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A CLOSED BIANCHI I UNIVERSE IN STRING THEORY

by

KALOPER, NEMANJA

A special Bianchi I universe is constructed in 4D string theory. Geometrically it represents a 3D anti-de-Sitter space crossed with a flat direction whereas in terms of an associated conformal field theory it is an extremal case of a gauged WZWN theory with target the coset SU(1,1)×R2/R. Some of its properties are discussed.

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P−V criticality of conformal gravity holography in four dimensions

by

Parthapratim Pradhan

We examine the critical behavior, i.e. P−V criticality of conformal gravity (CG) in an extended phase space in which the cosmological constant should be interpreted as a thermodynamic pressure and the corresponding conjugate quantity as a thermodynamic volume. The main potential point of interest in CG is that there exists a nontrivial Rindler parameter [Formula: see text] in the spacetime geometry. This geometric parameter has an important role to construct a model for gravity at large distances where the parameter "[Formula: see text]" actually originates. We also investigate the effect of the said parameter on the black hole (BH) thermodynamic equation of state, critical constants, Reverse Isoperimetric Inequality, first law of thermodynamics, Hawking−Page phase transition and Gibbs free energy for this BH. We speculate that due to the presence of the said parameter, there has been a deformation in the shape of the isotherms in the P−V diagram in comparison with the charged-anti de Sitter (AdS) BH and the chargeless-AdS BH. Interestingly, we find that the critical ratio for this BH is [Formula: see text], which is greater than the charged AdS BH and Schwarzschild−AdS BH, i.e. [Formula: see text]. The symbols are defined in the main work. Moreover, we observe that the critical ratio has a constant value and it is independent of the nontrivial Rindler parameter [Formula: see text]. Finally, we derive the reduced equation of state in terms of the reduced temperature, the reduced volume and the reduced pressure, respectively.

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On various equations concerning Black Holes and String Theory. New possible mathematical connections with some sectors of Number Theory and Supersymmetry Breaking.

by

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Analyzing a formula concerning the Zeros of the Davenport Heilbronn Function. Further new possible mathematical connections with some equations concerning some sectors of String Theory and Supersymmetry Breaking. III

by

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On the application of the κ formula concerning the Zeros of Riemann Zeta Function. Further new possible mathematical connections with some equations concerning some sectors of String Theory and Supersymmetry Breaking.

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On some equations concerning "Cosmological solutions of a nonlocal square root gravity". New possible mathematical connections with some equations of some sectors of String Theory and Supersymmetry Breaking.

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On some equations concerning the Cosmological Nonlocal Gravity Model, some sectors of Supergravity and String Theory. New possible mathematical solutions by the formula $((\sqrt{(10-2\sqrt 5)} -2))\diagup((\sqrt 5-1))=\kappa$

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On various equations concerning some topics of Field Theory and Gravity. New possible mathematical connections with various sectors of String Theory, Supersymmetry Breaking and Number Theory.

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On various equations concerning some topics of Zeros of the Zeta function and Zeta Cosmology. New possible mathematical connections with various sectors of String Theory and Supersymmetry Breaking.

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Canonical quantum supergravity in three dimensions

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Effective theory on non-Abelian vortices in six dimensions

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Non-supersymmetric large N gauge theories from type 0 brane configurations

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On some possible mathematical connections between various equations concerning the Zeta Cosmology, φ, ζ(2) and some parameters of Cosmology, String Theory and Particle Physics revisited

by

Michele Nardelli

In this revisited paper we have described some possible mathematical connections between various equations concerning the Zeta Cosmology, φ, ζ(2) and some parameters of Cosmology, String Theory and Particle Physics v2 - 30.03.2021 Below the links of three new papers that are the continuation of this work: https://www.academia.edu/45656420/ https://www.academia.edu/45659425/ https://www.academia.edu/45668064/ https://www.academia.edu/45678737/

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On various equations concerning some topics of "Soft Graviton Theorem in Generic Quantum Theory of Gravity". New possible mathematical connections with various sectors of String Theory, Supersymmetry Breaking and Number Theory.

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In this research thesis, we analyze some equations concerning various topics of "Geometric Flows and Cosmological Solitonic solutions". We describe the new possible mathematical connections with various sectors of String Theory, Supersymmetry Breaking and Number Theory. Below the link of the continuation of this work: https://www.academia.edu/45665516/On_various_equations_concerning_some_topics_of_Field_Theory_and_Gravity_New_possible_mathematical_connections_with_various

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On the Ramanujan's mathematics (Rogers-Ramanujan continued fractions, Hardy-Ramanujan number and sixth order mock theta functions) applied to various parameters of Particle Physics: New possible mathematical connections II

by

Michele Nardelli

In this research thesis (part II), we have analyzed and deepened further Ramanujan expressions (Rogers-Ramanujan continued fractions, Hardy-Ramanujan number and sixth order mock theta functions) applied to various parameters of Particle Physics. We have therefore described new possible mathematical connections. For the paper see also the link below: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan%2092b1.pdf UPDATED VERSION 10.10.2020

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On a possible factorization method revisited: possible mathematical connections with some fundamental Ramanujan modular forms and some sectors of String Theory and Supersymmetry Breaking

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On further equations concerning some topics of "Quantum Theory of Gravity" and Field Theory and Gravity. New possible mathematical connections with various sectors of String Theory, Supersymmetry Breaking and Number Theory. VII

by

Michele Nardelli

In this research thesis (part VII), we analyze further equations concerning various topics of "Quantum Theory of Gravity" and the Field Theory and Gravity. We describe the new possible mathematical connections with various sectors of String Theory, Supersymmetry Breaking and Number Theory.

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On further equations concerning some topics of Supergravity Theories and Field Theory and Gravity. New possible mathematical connections with various sectors of String Theory, Supersymmetry Breaking and Number Theory. VI

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In this research thesis (part VI), we analyze further equations concerning various topics of Supergravity Theories and the Field Theory and Gravity. We describe the new possible mathematical connections with various sectors of String Theory, Supersymmetry Breaking and Number Theory.

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On the mathematical connections between some equations regarding the Motion of Slow Neutrons, String Theory, Supersymmetry Breaking and some Ramanujan formulas revisited

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On further equations concerning the Field Theory and Gravity. New possible mathematical connections with various sectors of String Theory, Supersymmetry Breaking and Number Theory. V

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In this research thesis (part V), we analyze further equations concerning the Field Theory and Gravity. We describe the new possible mathematical connections with various sectors of String Theory, Supersymmetry Breaking and Number Theory.

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A new possible Theory of Mathematical Connections between some Ramanujan's equations and Approximations to π, the equations of Inflationary Cosmology concerning the scalar field ϕ, the Inflaton mass, the Higgs boson mass and the Pion meson π^± mass

by

Michele Nardelli

In this research thesis, we have described a new possible Theory of Mathematical Connections between some Ramanujan's equations and Approximations to π, the equations of Inflationary Cosmology concerning the scalar field ϕ, the Inflaton mass, the Higgs boson mass and the Pion meson π^± mass NEW REVISITED VERSION 10.10.2020 Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan%2055c.pdf

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On some equations concerning the Field Theory and Gravity and the Dirac Action on M5 and M2 Branes. New possible mathematical connections with various sectors of String Theory and Number Theory. IV

by

Michele Nardelli

In this research thesis (part IV), we describe some equations concerning the Field Theory and Gravity and the Dirac Action on M5 and M2 Branes. We describe the new possible mathematical connections with various sectors of String Theory and Number Theory. Below the link of the continuation (part V) of this work: https://www.academia.edu/45608111/

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On the possible mathematical connections between various Ramanujan's equations and some sectors of Particle Physics, String Theory, Supersymmetry Breaking and Physics of Black Holes revisited

by

Michele Nardelli

In this revisited research paper, we have described and analyzed the possible mathematical connections between various Ramanujan's equations and some sectors of Particle Physics (rest mass of meson f(0)1710, mass of proton, electric charge of positron, mass of Higgs boson), String Theory, Supersymmetry Breaking and Physics of Black Holes (entropy) v3 - UPDATED VERSION 22.03.2021

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On some equations concerning the Field Theory and Gravity. New possible mathematical connections with various sectors of String Theory and Number Theory. III

by

Michele Nardelli

In this research thesis (part III), we describe some equations concerning the Field Theory and Gravity. We describe the new possible mathematical connection with various sectors of String Theory and Number Theory. Below the link of the part IV of this work: https://www.academia.edu/45598974/

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Analyzing some equations concerning the Ramanujan's Notebooks revisited. New possible mathematical connections with various sectors of String Theory and Particle Physics

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On some equations concerning the Hardy-Littlewood Conjecture. New possible mathematical connections with some formulas concerning the Field Theory and Gravity and various sectors of String Theory. II

by

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In this research thesis (part II), we describe some equations concerning the Hardy-Littlewood Conjecture. We obtain new possible mathematical connections with some formulas concerning the Field Theory and Gravity and various sectors of String Theory.

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Are quantum corrections on horizon scale physically motivated?

by

Geoffrey Compere

The aim of this paper is to give an overview to nonspecialists of recent arguments from fundamental physics in favor and disfavor of quantum corrections to black hole horizons. I will mainly discuss the black hole information paradox, its possible resolutions and shortly address its relevance or irrelevance to astronomy.

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On some equations concerning the Hardy-Littlewood Conjecture. New possible mathematical connections with some formulas concerning the Field Theory and Gravity and various sectors of String Theory.

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In this research thesis, we describe some equations concerning the Hardy-Littlewood Conjecture. We obtain new possible mathematical connections with some formulas concerning the Field Theory and Gravity and various sectors of String Theory.

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On some equations concerning the Cosmological Constant revisited. Possible mathematical connections with various expressions regarding several sectors of String Theory, Supersymmetry Breaking and the Rogers-Ramanujan continued fractions.

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In this revisited paper, we describe some equations concerning the Cosmological Constant, obtaining possible mathematical connections with various expressions regarding several sectors of String Theory, Supersymmetry Breaking and the Rogers-Ramanujan continued fractions. v2 - 19.03.2021

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Effective delta sources and regularity in higher-derivative and ghost-free gravity

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On some equations concerning the Field Theory and Gravity. New possible mathematical connections with various sectors of String Theory and Number Theory II.

by

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In this research thesis (part II), we describe some equations concerning the Field Theory and Gravity. We describe the new possible mathematical connections with various sectors of String Theory and Number Theory

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On some equations concerning Modified Gravity Theories in Cosmology and Field Theory and Gravity. New possible mathematical connections with various sectors of String Theory and Number Theory

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In this research thesis, we describe some equations concerning Modified Gravity Theories in Cosmology and Field Theory and Gravity. We describe the new possible mathematical connections with various sectors of String Theory and Number Theory

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On the possible mathematical connections between several Ramanujan's mathematics parameters, some equations concerning the SO(2^13) group in Bosonic String Theory, various parameters regarding Particle Physics, Supersymmetry Breaking, ϕ and $\zeta(2)$.

by

Michele Nardelli

In this revisited paper, we describe and analyze further new mathematical connections between some Ramanujan's mathematics parameters, several equations concerning the SO(2^13) group, in Bosonic String Theory, various parameters regarding Particle Physics, Supersymmetry Breaking, ϕ and $\zeta(2)$. REVISITED AND UPDATED VERSION

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On the Ramanujan's Fundamental Formula for obtain a highly precise Golden Ratio revisited: mathematical connections with Black Holes Entropies, Like- Particle Solutions and some sectors of String Theory

by

Michele Nardelli

In the present revisited research thesis, we have obtained various and interesting new mathematical connections concerning the fundamental Ramanujan's formula to obtain a highly precise golden ratio, some sectors of Particle Physics, String Theory and Black Holes entropies. v3 - 17.03.2021

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On the Dark Matter candidate particles, some Ramanujan's Mock Theta Functions and the Physics of BH. On the theoretical framework concerning the motivations of mathematical connections between various Ramanujan's mathematical formulas and different parameters of Theoretical Physics and Cosmology

by

Michele Nardelli

In the present research thesis, we have obtained further interesting new possible mathematical connections concerning the mathematics of Ramanujan mock theta functions, some sectors of Particle Physics, concerning principally the Dark Matter candidate particles and the physics of black holes. Furthermore, we have described a new possible Theory of Mathematical Connections between some Ramanujan's equations and Approximations to π, the equations of Inflationary Cosmology concerning the scalar field , the Inflaton mass, the Higgs boson mass and the Pion meson ± mass. In conclusion, we have analyzed a fundamental modular equation for an initial theoretical framework concerning the motivations of the mathematical connections that are obtained between various formulas of Ramanujan's mathematics and different parameters of Theoretical Physics and Cosmology v2 - UPDATED AND REVISITED VERSION 16.03.2021

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Cubic interaction vertices for N=1 arbitrary spin massless supermultiplets in flat space

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M theory on orientifolds of K3×S1

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On some equations concerning the Quantum Field Theory. New possible mathematical connections with various sectors of String Theory and Number Theory.

by

Michele Nardelli

In this research thesis, we describe some equations concerning the Quantum Field Theory and the new possible mathematical connections with various sectors of String Theory and Number Theory

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

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A note on enhanced gauge symmetries in M- and string theory

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Gravity and form scattering and renormalization of gravity in six and eight dimensions

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Quarks and a unified theory of Nature fundamental forces

by

I. Antoniadis

Quarks were introduced 50 years ago opening the road towards our understanding of the elementary constituents of matter and their fundamental interactions. Since then, a spectacular progress has been made with important discoveries that led to the establishment of the Standard Theory that describes accurately the basic constituents of the observable matter, namely quarks and leptons, interacting with the exchange of three fundamental forces, the weak, electromagnetic and strong force. Particle physics is now entering a new era driven by the quest of understanding of the composition of our Universe such as the unobservable (dark) matter, the hierarchy of masses and forces, the unification of all fundamental interactions with gravity in a consistent quantum framework, and several other important questions. A candidate theory providing answers to many of these questions is string theory that replaces the notion of point particles by extended objects, such as closed and open strings. In this short note, I will give a brief overview of string unification, describe in particular how quarks and leptons can emerge and discuss what are possible predictions for particle physics and cosmology that could test these ideas.

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...nes, Phys. Rept. 287 (1997) 447 [arXiv:hep- th/9602045]; and references therein. C. Angelantonj and **A. Sagnotti**, Phys. Rept. 371 (2002) 1 [Erratum-ibid. 376 (2003) 339] [arXiv:hep-th/0204089]. I. Antoniadis, Phy...

On some Ramanujan expressions concerning the "First Letter to Hardy" revisited. Possible mathematical connections with some equations and topics concerning the Supersymmetry Breaking, Nilpotent Supergravity and Pre – Inflationary Clues.

by

Michele Nardelli

In this revisited research thesis, we calculate some Ramanujan expressions concerning the "First letter to Hardy". We describe the possible mathematical connections with some equations and topics concerning the Supersymmetry Breaking, Nilpotent Supergravity and Pre-Inflationary Clues. v2 - REVISITED VERSION - 14.03.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

Massive gauge-invariant field theories on spaces of constant curvature

by

Medeiros, Paul de, de Medeiros, Paul

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.... Pashnev and M. Tsulaia, Phys. Lett. B523, 338 (2001), hep-th/0109067. D. Francia and A. Sagnotti, **Free geometric equations for higher spins**, hep-th/0207002. E.S. Fradkin and M.A. Vasiliev, Nucl. Phys. B291, 141 (1987) ; Annals Phys. 177, 6...

On some completely elliptic linear equations to the partial derivatives revisited. Possible mathematical connections with some equations and topics concerning the Supergravity, Supersymmetry Breaking and Pre-inflationary Clues

by

Michele Nardelli

In this revisited research thesis, we develop some completely elliptic linear equations to the partial derivatives. We describe the possible mathematical connections with some equations and topics concerning the Supergravity, Supersymmetry Breaking and Pre-inflationary Clues. v2 - 13.03.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On the Klein-Gordon equation and some formulas concerning the Harmonic Oscillator. New possible mathematical connections with various sectors of String Theory and Number Theory.

by

Michele Nardelli

In this research thesis, we describe the Klein-Gordon equation and some formulas linked to the Harmonic Oscillator. New possible mathematical connections with various sectors of String Theory and Number Theory

more ▾

... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On various equations regarding "Levi-Civita connection and generalized Bianchi identities applied to the Nonsymmetric gravity and nonholonomic frames" and some sectors of String Theory. New possible mathematical connections with various parameters of Number Theory.

by

Michele Nardelli

In this research thesis, we develop various equations regarding "Levi-Civita connection and generalized Bianchi identities applied to the Nonsymmetric gravity and nonholonomic frames" and some sectors of String Theory. We describe new possible mathematical connections with various parameters of Number Theory.

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

Consistent irrelevant deformations of interacting conformal field theories

by

Anselmi, Damiano

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...ences in the theory of gravitation, Ann. Inst. Poincarè, 20 (1974) 69. M.H. Goroff and A. Sagnotti, **The ultraviolet behavior of Einstein gravity**, Nucl. Phys. B 266 (1986) 709. S.J. Gates,Jr., W. Siegel, M. Rocek and M.T. Grisaru, Superspace, or...

On the new possible mathematical connections between some equations of various sectors concerning the D-Branes, the Supersymmetry Breaking and some Ramanujan's modular equations and approximations to π.

by

Michele Nardelli

In this revisited research thesis, we have described some new mathematical connections between some equations of various sectors concerning the D-Branes, the Supersymmetry Breaking and some Ramanujan's modular equations and approximations to π. v3 - UPDATED VERSION 12.03.2021

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On various equations regarding "Massive Yang-Mills Fields", "Geometrical aspects of extended Supergravity, Superstrings, Supersymmetric diffusion" and Supersymmetry Breaking. New possible mathematical connections with various parameters of Number Theory.

by

Michele Nardelli

In this research thesis, we develop various equations regarding "Massive Yang-Mills Fields", geometrical aspects of extended supergravity, superstrings, supersymmetric diffusion" and Supersymmetry Breaking. We describe the new possible mathematical connections with various parameters of Number Theory.

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On some second order differential equations of parabolic type (Heat Equation) revisited. Possible mathematical connections with some equations and topics concerning String Theory, Supersymmetry Breaking and Cosmology

by

Michele Nardelli

In this revisited research thesis, we develop some second order differential equations of parabolic type (Heat Equation). We describe the possible mathematical connections with some equations and topics concerning String Theory, Supersymmetry Breaking and Cosmology. v2 UPDATED VERSION 11.03.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On further equations regarding "the complex variable functions and the elliptic functions" and some Ramanujan formulas. Possible mathematical connections with various equations of "Ultraviolet behaviour of Einstein gravity" and Supersymmetry Breaking III

by

Michele Nardelli

In this research thesis, (part III) we develop further formulas concerning "the complex variable functions and elliptic functions" and some Ramanujan expressions. We describe new possible mathematical connections with various equations of "Ultraviolet behaviour of Einstein gravity" and Supersymmetry Breaking

more ▾

...^- From the Planck units: Nuclear Physics B266 (1986) 709-736 -© North-Holland Publishing Company - **THE ULTRAVIOLET BEHAVIOR OF EINSTEIN GRAVITY** -Marc H. GOROFF, Augusto SAGNOTTI Nuclear Physics B35 (1971) 167-188. North-Holland Publishing Comp...

HIGHLY CITED

Orientifolding the conifold

by

Park, J., Rabadán, R., Uranga, A.M.

This mention was found in a paper hosted outside of Academia.edu

...adisi, A. Sagnotti, "Open strings orbifolds", Phys. Lett. B216 (1989) 59; M. Bianchi, A. Sagnotti, "**On the systematics of open string theories**", Phys. Lett. B247 (1990) 517; "Twist symmetry and open string Wilson lines", Nucl. Phys. B361 (199...

On the possible analysis of further equations concerning Open strings and Supersymmetry breaking revisited. Mathematical connections with various sectors of Number Theory.

by

Michele Nardelli

In this revisited research thesis, we analyze further equations concerning Open Strings and Supersymmetry breaking. We describe the mathematical connections with some sectors of Number Theory. v2 - 10.03.2021

more ▾

... formula for n = 47 and with the formula concerning the 5 th order mock theta function for n = 251. **Supersymmetry breaking, open strings and M-theory** I. Antoniadis, E. Dudas and A. Sagnotti -arXiv:hep-th/9807011v2 2 Dec 1998 We have that: We obtain...

On some Ramanujan's expressions (Hardy-Ramanujan number and mock theta functions) applied to various parameters of Particle Physics and Black Hole Physics revisited: Further possible mathematical connections. II

by

Michele Nardelli

In this revisited research thesis, we have analyzed and deepened further Ramanujan expressions (Hardy-Ramanujan number and mock theta functions) applied to various parameters of Particle Physics and Black Hole Physics. We have therefore described further possible mathematical connections. v3 - UPDATED VERSION - 10.03.2021

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

O(Nc) and USp(Nc) QCD from String Theory

by

Toshiya Imoto

...ry," J. High Energy Phys. 12 (1998), 019, hep-th/9810188. I. Antoniadis, E. Dudas and A. Sagnotti, "**Supersymmetry breaking, open strings and M-theory**," Nucl. Phys. B 544 (1999), 469, hep-th/9807011. S. Kachru, J. Kumar and E. Silverstein, "Orientifo...

On further equations regarding "the complex variable functions and the elliptic functions" and some Ramanujan formulas. Possible mathematical connections with various equations of "two loop calculation in the N=4 supersymmetric Yang Mills theory" and Supersymmetry Breaking II

by

Michele Nardelli

In this research thesis, (part II) we develop further formulas concerning "Theory of complex variable functions and elliptic functions" and some Ramanujan expressions. We describe new possible mathematical connections with various equations of "two loop calculation in the N=4 supersymmetric Yang Mills theory" and Supersymmetry Breaking

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...ts 7.021621519*10^-15 ; 1.57986484181*10^-14 ; 7.021621519159*10^-17 ; *10^- From the Planck units: **The Ultraviolet Behavior of N=4 Yang-Mills and the Power Counting of Extended Superspace** -Neil Marcus and Augusto Sagnotti -California Institute of Technology, Pasadena, California 91125 (...

THE SUM OF RECIPROCAL FIBONACCI PRIME NUMBERS CONVERGES TO A NEW CONSTANT: MATHEMATICAL CONNECTIONS WITH SOME SECTORS OF EINSTEIN'S FIELD EQUATIONS AND STRING THEORY

by

Michele Nardelli

In this paper we have described a sum of the reciprocal Fibonacci primes that converges to a new constant. Furthermore, in the Section 2, we have described also some new possible mathematical connections with the universal gravitational constant G , the Einstein field equations and some equations of String Theory and Supersymmetry Breaking linked to Φ and π v3 - 09.03.2021

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018...

Developing several equations concerning the "Theory of complex variable functions and elliptic functions" and some Ramanujan expressions. New possible mathematical connections with various expressions of "two loop calculation in the N=4 supersymmetric Yang Mills theory" and Supersymmetry Breaking

by

Michele Nardelli

In this research thesis, we develop several equations concerning the "Theory of complex variable functions and elliptic functions" and some Ramanujan expressions. We describe new possible mathematical connections with various expressions of "two loop calculation in the N=4 supersymmetric Yang Mills theory" and Supersymmetry Breaking

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... Levi Civita, Opere matematiche. Memorie e note, Bologna, Zanichelli, 1954- 1973. Vol. 1: 1893-1900 **The Ultraviolet Behavior of N=4 Yang-Mills and the Power Counting of Extended Superspace** -Neil Marcus and Augusto Sagnotti -California Institute of Technology, Pasadena, California 91125 (...

Analyzing the Bianchi identities and several equations concerning tensor analysis. New possible mathematical connections with some topics of "Unconstrained Higher Spins of Mixed Symmetry", Supersymmetry Breaking, and Ramanujan modular equations.

by

Michele Nardelli

In this research thesis, we analyze the Bianchi identities and several equations concerning tensor analysis. We describe new possible mathematical connections with some topics of "Unconstrained Higher Spins of Mixed Symmetry", Supersymmetry Breaking, and Ramanujan modular equations. Below the link of a research work connected with this paper:

https://www.academia.edu/45424866/Developing_several_equations_concerning_the_Theory_of_complex_variable_functions_and_elliptic_functions_and_some_Ramanujan_d

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... Levi Civita, Opere matematiche. Memorie e note, Bologna, Zanichelli, 1954- 1973. Vol. 1: 1893-1900 **Unconstrained Higher Spins of Mixed Symmetry I. Bose Fields** -A. Campoleoni, D. Francia, J. Mourad and A. Sagnotti -arXiv:0810.4350v2 [hep-th] 18 Dec 2008 Modul...

Further mathematical connections between various Ramanujan equations and some sectors of String Theory revisited.

by

Michele Nardelli

In this revisited research thesis, we describe the mathematical connections between various Ramanujan formulas analyzed by G. E. Andrews and some sectors of String Theory. v2 - 05.03.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On the study of integral ∫ 2x(x^2-1)^3 dx. Possible mathematical connections with some parameters of Number Theory and String Theory

by

Michele Nardelli

In this research thesis, we analyze the integral ∫ 2x(x^2-1)^3 dx and describe the possible mathematical connections with some parameters of Number Theory and String Theory v2 - UPDATED VERSION

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... − Italy) for his very useful explanations and his availability 51 References Modular equations and **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 Properties of Nilpotent Supergr...

On various equations concerning "types of potentials that can be made to depend on only two coordinates": new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking and Ramanujan modular equations.

by

Michele Nardelli

In this research thesis, we analyze various equations concerning "types of potentials that can be made to depend on only two coordinates". We describe new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking and Ramanujan modular equations. v2 - 05.03.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On the possible mathematical connections between some Ramanujan-Cardy-Rademacher formulas, various parameters of Open String, Supersymmetry Breaking, Particle Physics, ϕ and ζ(2) revisited

by

Michele Nardelli

In this revisited paper, we describe and analyze new possible mathematical connections between some Ramanujan-Cardy-Rademacher formulas, various parameters of Open String, Supersymmetry Breaking, Particle Physics, ϕ and ζ(2) v3 - 04.03.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On various equations concerning "types of potentials that can be made to depend on only two coordinates": new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking and Ramanujan modular equations.

by

Michele Nardelli

In this research thesis, we analyze various equations concerning "types of potentials that can be made to depend on only two coordinates". We describe new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking and Ramanujan modular equations.

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27 M^2)/3*[1-(b/euler nu...

On the Fundamental Quadratic Differential Forms of Surfaces : new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking, Ramanujan modular equations and CMB data.

by

Michele Nardelli

In this research thesis, we analyze the Fundamental Quadratic Differential Forms of Surfaces. We describe new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking, Ramanujan modular equations and CMB data.

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On various equations concerning the "Geodetic triangles and pseudospheric trigonometry": new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking, Ramanujan modular equations and CMB data

by

Michele Nardelli

In this research thesis, we analyze various equations regarding "Geodetic triangles and pseudospheric trigonometry". We describe new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking, Ramanujan modular equations and CMB data.

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

The fate of the type I non-BPS D7-brane

by

Loaiza-Brito, Oscar, Uranga, Angel M

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...folds via brane-antibrane systems', JHEP 9910 (1999) 024. hep-th/9908072. M. Bianchi, A. Sagnotti, '**On the systematics of open string theories**', Phys. Lett. B247 (1990) 517; 'Twist symmetry and open string Wilson lines', Nucl. Phys. B361 (199...

On the Lebesgue integral and the Lebesgue measure revisited: mathematical applications in some sectors of Chern-Simons theory and Yang-Mills gauge theory and mathematical connections with some sectors of String Theory, Supersymmetry Breaking and Number Theory

by

Michele Nardelli

In this paper, in the Section 1, we have described some equations and theorems concerning the Lebesgue integral and the Lebesgue measure. In the Section 2, we have described the possible mathematical applications, of Lebesgue integration, in some equations concerning various sectors of Chern-Simons theory and Yang-Mills gauge theory, precisely the two dimensional quantum Yang-Mills theory. In conclusion, in the Section 3, we have described also the possible mathematical connections with some sectors of String Theory and Number Theory, principally with some equations concerning the Ramanujan"s modular equations that are related to the physical vibrations of the bosonic strings and of the superstrings, some Ramanujan"s identities concerning π and the zeta strings. v3 UPDATED AND REVISITED VERSION - 01.03.2021

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...ry near to the dilaton value the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For 54 = and to the va...

On various equations concerning the "theorems on the integration of the geodesic equation": new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking, Ramanujan modular equations and CMB data II.

by

Michele Nardelli

In this research thesis (part II), we analyze various equations regarding "theorems on the integration of the geodesic equation". We describe new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking, Ramanujan modular equations and CMB data.

more ▾

...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

Ramanujan approximations to π, invariant class and other expressions revisited: further mathematical connections with some sectors of Particle Physics, String Theory, Supersymmetry Breaking and Physics of Black Holes (entropy)

by

Michele Nardelli

In this revisited research paper, we have obtained further mathematical connections with some sectors of Particle Physics, String Theory, Supersymmetry Breaking and Physics of Black Holes (entropy) and the Ramanujan approximation to , invariant class and other expressions extracted from some pages of original manuscript UPDATED AND REVISITED VERSION - 28.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, S. Ferrara, A. Kehag...

Towards massless sector of tensionless strings on AdS5

by

Alexey Sharapov, Evgeny Skvortsov, Tung Tran

This mention was found in a paper hosted outside of Academia.edu

... Lett. B567 (2003) 139-151, arXiv:hep-th/0304049 [hep-th]. A. Sagnotti, E. Sezgin, and P. Sundell, "**On higher spins with a strong sp(2,r) condition**," hep-th/0501156. R. Bonezzi, N. Boulanger, E. Sezgin, and P. Sundell, "Frobenius-Chern-Simons gaug...

On various equations concerning the "theorems on the integration of the geodesic equation": new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking, Ramanujan modular equations, CMB data and Phi frequency system.

by

Michele Nardelli

In this research thesis, we analyze various equations regarding "theorems on the integration of the geodesic equation". We describe new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking, Ramanujan modular equations, CMB data and Phi frequency system. Below the link of the part II of this work: https://www.academia.edu/45278042/On_various_equations_concerning_the_theorems_on_the_integration_of_the_geodesic_equation_new_possible_mathematical_connect

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On various equations concerning "Lessons on Surface Theory": new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking and Ramanujan modular equations.

by

Michele Nardelli

In this research thesis, we analyze various equations regarding "Lessons on Surface Theory". We describe new possible mathematical connections with some topics of String Theory, Supersymmetry Breaking and Ramanujan modular equations. Below the link of a paper concerning the topics of this work: https://www.academia.edu/45245615/On_various_equations_concerning_the_theorems_on_the_integration_of_the_geodesic_equation_new_possible_mathematical_connect

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...to the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

IIB nine-branes

by

Bergshoeff, Eric A, de Roo, Mees, Kerstan, Sven F, Ortín, Tomás, Riccioni, Fabio

This mention was found in a paper hosted outside of Academia.edu

...se '87, "Non-Perturbative Quantum Field Theory", eds. G.Mack et al (Pergamon Press, 1988), p. 521, "**Open Strings And Their Symmetry Groups**," arXiv:hep-th/0208020. E. Bergshoeff, M. de Roo, B. Janssen and T. Ortin, "The super D9-brane and ...

On the new possible mathematical connections between some parameters of Number Theory, the integration of the equation Δ2 Δ2 u=0 and some sectors of String Theory, Supersymmetry Breaking, the PMS data and FS based on Phi.

by

Michele Nardelli

In this research thesis, we describe the new possible mathematical connections between some parameters of Number Theory, the integration of the equation Δ2Δ2 u = 0 and some sectors of String Theory, Supersymmetry Breaking, PMS data (Planck multipole spectrum) and FS based on Phi (Frequency System).

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...to the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On several equations concerning "Non-linear bigravity and cosmic acceleration", a specific f(R)-Gravity Model and Supersymmetry Breaking: New possible mathematical connections with some parameters of Number Theory, the integration of the equation Δ2Δ2u = 0, the PMS data and FS based on Phi.

by

Michele Nardelli

In this research thesis, we analyze various equations regarding "Non-linear bigravity and cosmic acceleration", specific f(R)-Gravity and Supersymmetry Breaking. We describe the new possible mathematical connections with some parameters of Number Theory, the integration of the equation Δ2Δ2u = 0, PMS data (Planck multipole spectrum) and FS based on Phi (Frequency System).

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On Non-Linear Differential Equations of the Second Order revisited. Possible mathematical connections with various formulas regarding the String Theory, the Supersymmetry Breaking and the Ramanujan mathematics.

by

Michele Nardelli

In this revisited research thesis, we describe Non-Linear Differential Equations of the Second Order and the possible mathematical connections with various formulas regarding the String Theory, the Supersymmetry Breaking and the Ramanujan mathematics. v2 - 25.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On some results of a Hyperbolic Equation and the possible mathematical connections with various sector of string theory and the Ramanujan's modular equations revisited

by

Michele Nardelli

In this revisited research thesis, we have analyzed some results of a Hyperbolic Equation. We describe the possible mathematical connections with various sectors of string theory and the Ramanujan's modular equations. v3 - 25.02.2021

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...alue . = and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: From which: e^(4*0.9891...

On various equations regarding Current Exchanges and Unconstrained Higher Spins, accelerating cosmology and Supersymmetry Breaking: new possible mathematical connections with some parameters of Number Theory, PMS data and FS based on Phi. II

by

Michele Nardelli

In this research thesis (part II), we analyze various equations regarding "Current Exchanges and Unconstrained Higher Spins", accelerating cosmology and Supersymmetry Breaking. We describe new possible mathematical connections with some parameters of Number Theory, Planck multipole spectrum (PMS) data and Frequency System (FS) based on Phi

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...519*10^-15 ; 1.57986484181*10^-14 ; 7.021621519159*10^-17 ; *10^- From the Planck units: References **Current Exchanges and Unconstrained Higher Spins** -D. Francia, J. Mourad and A. Sagnotti -arXiv:hep-th/0701163v2 25 Mar 2007 Ghost-free F (R) bigravi...

On some equations concerning Fivebranes and Knots, Wilson Loops in Chern-Simons Theory, cusp anomaly and integrability from String theory and Supersymmetry Breaking revisited . Mathematical connections with some sectors of Number Theory

by

Michele Nardelli

The present paper is a review, a thesis of some very important contributes of E. Witten, C. Beasley, R. Ricci, B. Basso et al. regarding various applications and equations concerning Fivebranes and Knots, Wilson Loops in Chern-Simons Theory, cusp anomaly and integrability from String theory and Supersymmetry Breaking. We describe the mathematical connections with some sectors of Number Theory v3 - UPDATED AND REVISITED VERSION - 23.02.2021

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...r to the dilaton value = and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On the analysis of some equations concerning String Theory, Supersymmetry Breaking and Superfields revisited. Possible mathematical connections with various Ramanujan formulas.

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning String Theory, Supersymmetry Breaking and Superfields. We describe the possible mathematical connections with various Ramanujan's expressions

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

Einstein-aether as a quantum effective field theory

by

Withers, Benjamin

This mention was found in a paper hosted outside of Academia.edu

...heory of gravitation, Annales Poincare Phys. Theor. A20 (1974) 69-94. M. H. Goroff and A. Sagnotti, **The Ultraviolet Behavior of Einstein Gravity**, Nucl. Phys. B266 (1986) 709. J. Gomis and S. Weinberg, Are Nonrenormalizable Gauge Theories Renorm...

On various equations regarding (A)dS exchanges and partially-massless higher spins and Supersymmetry Breaking: new possible mathematical connections with ϕ, $\zeta(2)$, some Planck multipole spectrum data and Frequency System based on Phi

by

Michele Nardelli

In this research thesis, we analyze various equations regarding "(A)dS exchanges and partially-massless higher spins" and Supersymmetry Breaking. We describe new possible mathematical connections with ϕ, $\zeta(2)$, some Planck multipole spectrum data and Frequency System based on Phi Below the link of the part II of this work: https://www.academia.edu/45177844/On_various_equations_regarding_Current_Exchanges_and_Unconstrained_Higher_Spins_accelerating_cosmology_and_Supersymmetry

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...s equations was carried out according an our possible logical and original interpretation From: (**A)dS exchanges and partially-massless higher spins** D. Francia, J. Mourad and A. Sagnotti arXiv:0803.3832v2 30 We have that: 1.637420511933…. resul...

On some equations concerning "Two-loop superstring five-point amplitudes" revisited. New possible mathematical connections with various parameters of Ramanujan's expressions, some sectors of String Theory and Supersymmetry Breaking

by

Michele Nardelli

In this revisited research thesis, we have analyzed some equations concerning "Two-loop superstring five-point amplitudes", obtaining new possible mathematical connections with various parameters of Ramanujan's expressions, some sectors of String Theory and Supersymmetry Breaking v3 - 21.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

Strong coupling dynamics of branes from M-theory

by

Sen, Ashoke

This mention was found in a paper hosted outside of Academia.edu

.... F. Dowker, J. Gauntlett, G. Gibbons and G. Horowitz, Phys. Rev. D53 (1996) 7115 [hep-th/9512154]. **A. Sagnotti**, in Cargese '87, Non-perturbative Quantum Field Theory, ed. G. Mack et. al. (Pergamon Press, 1988) ...

From Ramanujan's Mock Theta Functions to Black Hole Entropies and Particle Physics revisited: Symmetry, Supersymmetry and Golden Ratio

by

Michele Nardelli

In the present research thesis, we have obtained various interesting new mathematical connections concerning the Ramanujan's mock theta functions, some like-particle solutions, Supersymmetry, some formulas of Haramein's Theory and Black Holes entropies. We obtain excellent approximations to the values of the golden ratio, its conjugate and $\zeta(2)$ v3 - UPDATED AND REVISITED VERSION - 20.02.2021

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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 170 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ = 1 we obtain: (...

On the possible mathematical connections between some topics of Ramanujan's mathematics, ϕ, ζ(2) and various equations regarding (A)dS exchanges and partially-massless higher spins, Supersymmetry Breaking, Planck CMB data and Frequency System based on Phi.

by

Michele Nardelli

In this research thesis, we analyze the possible mathematical connections between some topics of Ramanujan's mathematics, ϕ, ζ(2) and various equations regarding (A)dS exchanges and partially-massless higher spins, Supersymmetry Breaking, Planck CMB data and Frequency System based on Phi.

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...s equations was carried out according an our possible logical and original interpretation From: **(A)dS exchanges and partially-massless higher spins** D. We have that: Result: Decimal approximation: Alternate form: From which: Result: Decimal appro...

On the possible mathematical connections between some topics of Ramanujan's mathematics and various equations regarding Toroidal Compactification, Supersymmetry Breaking, Planck CMB data and Frequency System based on Phi. II

by

Michele Nardelli

In this research thesis (part II), we analyze new possible mathematical connections between some topics of Ramanujan's mathematics and various equations regarding Toroidal Compactification, Supersymmetry Breaking, Planck CMB data and Frequency System based on Phi

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...us equations was carried out according an our possible logical and original interpretation From: **Toroidal compactification and symmetry breaking in open-string theories** - M. Result: Alternate form: For: Result: -8.17908*10 10 i From the ratio between the two expressio...

On the new possible mathematical connections between several Ramanujan's mathematics parameters, some equations concerning the SO(8192) group in Bosonic String Theory, Supersymmetry Breaking and various parameters regarding Particle Physics, ϕ and ζ(2)

by

Michele Nardelli

In this revisited paper, we describe and analyze new possible mathematical connections between some Ramanujan's mathematics parameters, several equations concerning the SO(2^13) group, in Bosonic String Theory, Supersymmetry Breaking and various parameters regarding Particle Physics, ϕ and ζ(2). v3 - 18.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

Analyzing various mathematical connections between the Ramanujan's numbers 1729, 728, the Ramanujan's class invariant, some sectors of Particle Physics, String Theory and some equations concerning the Supersymmetry Breaking

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting mathematical connections with the Ramanujan"s numbers 1728, 1729, 728, 729, the Ramanujan"s class invariant and some sectors of Particle Physics, String Theory and Supersymmetry Breaking v3 - 17.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27 b/euler number * k/sq...

On the possible mathematical connections between some topics of Ramanujan's mathematics and various equations regarding Extremal Black Hole Entropy, Toroidal Compactification, Supersymmetry Breaking, Planck CMB data and Frequency System based on Phi

by

Michele Nardelli

In this research thesis, we analyze new possible mathematical connections between some topics of Ramanujan's mathematics and various equations regarding Extremal Black Hole Entropy, Toroidal Compactification, Supersymmetry Breaking, Planck CMB data and Frequency System based on Phi v2 - 17.02.2021

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...ji Roy and Harvendra Singh -arXiv:0707.1422v2 [hep-th] 23 Jul 2007 hep-th/9606169 -February 1, 2008 **Chiral Asymmetry in Four-Dimensional Open-String Vacua** -C. Angelantonj, M. Bianchi, G. Pradisi, A. Sagnotti and Ya.S. Stanev Quantum Black Holes -Atish Da...

On the possible mathematical connections between some topics of Ramanujan's mathematics and various equations regarding Extremal Black Hole Entropy, Toroidal Compactification, Supersymmetry Breaking, Planck CMB data and Frequency System based on Phi

by

Michele Nardelli

In this research thesis, we analyze new possible mathematical connections between some topics of Ramanujan's mathematics and various equations regarding Extremal Black Hole Entropy, Toroidal Compactification, Supersymmetry Breaking, Planck CMB data and Frequency System based on Phi

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...ji Roy and Harvendra Singh -arXiv:0707.1422v2 [hep-th] 23 Jul 2007 hep-th/9606169 -February 1, 2008 **Chiral Asymmetry in Four-Dimensional Open-String Vacua** -C. Angelantonj, M. Bianchi, G. Pradisi, A. Sagnotti and Ya.S. Stanev Quantum Black Holes -Atish Da...

Dynamically equivalent Λ CDM equations with underlying Bianchi Type geometry

by

T. Pailas, T. Christodoulakis

This mention was found in a paper hosted outside of Academia.edu

...assive-Vector Fields in Bianchi Cosmologies. apj, 160:147, April 1970. A. Sagnotti and B. Zwiebach. **Electromagnetic Waves in a Bianchi Type I Universe**. Phys. Rev., D24:305-319, 1981. M. S. Madsen. Symmetry breaking in dynamical space-times. Gen. Rel....

Mathematical connections between the formula concerning the coefficients of the '5th order' Ramanujan's mock theta function, the mass of mesons in string model, various parameters of Particle Physics, some equations of Brane Supersymmetry Breaking and Cosmology revisited.

by

Michele Nardelli

In this research thesis, we have described new possible mathematical connections between the formula concerning the coefficients of the '5th order' Ramanujan's mock theta function, the mass of mesons in string model, various parameters of Particle Physics some equations of Brane Supersymmetry Breaking and Cosmology revisited. v3 - 16.02.2021

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...alue . = and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] e^(0.989117352243/2)) / (1+sqrt(((1-1/3*16/(...

On some equations concerning a new possible method for the calculation of the prime numbers revisited: mathematical connections with various expressions of some sectors of String Theory and Number Theory

by

Michele Nardelli

In this revisited paper, in Sections 1 and 2, we have described some equations and theorems concerning and linked to the Riemann zeta function. In the Section 3, we have showed the fundamental equation of the Riemann zeta function and the some equations concerning a new possible method for the calculation of the prime numbers. In

conclusion, in the Section 4 we show the possible mathematical connections with various expressions of some sectors of String Theory and Number Theory and finally we suppose as the prime numbers can be identified as possible solutions to the some equations of the string theory (zeta string) v2 - 15.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On various equations concerning String Theory, Brane SUSY Breaking and Cosmology revisited. Mathematical connections with the mock theta function coefficients, some expression concerning the Ramanujan's first letter and some sectors of Number Theory. II

by

Michele Nardelli

In this revisited research thesis (part II), we analyze further equations concerning String Theory, Brane SUSY Breaking and Cosmology, obtaining various mathematical connections with the mock theta function coefficients, some expression concerning the Ramanujan's first letter and some topics of Number Theory v2 - 15.02.2021

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On the possible mathematical connections between some equations of Number Theory, β rays theory, Higgs boson, Gravitational Zero Point Energy, String Theory, Supersymmetry Breaking, Planck CMB data and various equations concerning the "Geometric information flows and G. Perelman entropy"

by

Michele Nardelli

In this research thesis, we analyze new possible mathematical connections between some equations of Number Theory, β rays theory, Higgs boson, Gravitational Zero Point Energy, String Theory, Supersymmetry Breaking, Planck CMB data and various equations concerning the "Geometric information flows and G. Perelman entropy"

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On some Ramanujan equations revisited: mathematical connections with ϕ, ζ(2), some sectors of String Theory, Supersymmetry Breaking and various parameters of Cosmology and Particle Physics. II

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan equations. Furthermore, we have obtained various mathematical connections with ϕ, ζ(2), some sectors of String Theory, Supersymmetry Breaking and several parameters of Cosmology and Particle Physics v2 - 13.02.2021

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27 Series representation...

On the Ramanujan's mathematics and Quantum Theory of Fields revisited: new possible mathematical connections with ϕ, ζ(2), some parameters of Particle Physics and some sectors of String Theory and Supersymmetry Breaking.

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan equations and various formulas of Quantum Theory of Fields. Furthermore, we describe new possible mathematical connections with ϕ, ζ(2), some parameters of Particle Physics and some sectors of String Theory and Supersymmetry Breaking v2 - 13.02.2021

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Properties of N...

On the Ramanujan's equations revisited: new mathematical connections with various sectors of String Theory, Supersymmetry Breaking, Particle Physics and Cosmology

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with some parameters of Particle Physics, various sectors of String Theory, Supersymmetry Breaking and Cosmology v2 - 12.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On the Ramanujan's equations applied to various sectors of Particle Physics, String Theory, Supersymmetry Breaking and Cosmology: new possible mathematical connections

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with some sectors of Particle Physics, String Theory, Supersymmetry Breaking and Cosmology v2 - 12.02.2021

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Properties of N...

On the new possible mathematical connections between some sectors of String Theory, Supersymmetry Breaking and Planck CMB data and various equations concerning the "Sobolev Inequalities, Ricci Flow and Poincaré Conjecture".

by

Michele Nardelli

In this research thesis, we analyze the new possible mathematical connections between some sectors of String Theory, Supersymmetry Breaking and Planck CMB data and various equations concerning the "Sobolev Inequalities, Ricci Flow and Poincaré Conjecture". updated version 12.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On the analysis of various equations concerning the "Sobolev Inequalities, Ricci Flow and Poincaré Conjecture". New possible mathematical connections with some sectors of Number Theory, String Theory, Supersymmetry Breaking and Planck CMB data

by

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In this research thesis, we analyze various equations concerning the "Sobolev Inequalities, Ricci Flow and Poincaré Conjecture". We describe the possible mathematical connections with some sectors of Number Theory, String Theory, Supersymmetry Breaking and Planck CMB data 1

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On some Ramanujan formulas: mathematical connections with Phi , ζ(2) and several parameters of Quantum Geometry, String Theory and Cosmology. III

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan expressions. We have obtained several mathematical connections with Phi , ζ(2) and various parameters of Quantum Geometry, String Theory and Cosmology. for the paper see also the link below:

http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan%20193b.pdf UPDATED VERSION 10.10.2020

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... value . = and to the value of the following Rogers-Ramanujan continued fraction:FromMarch 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] e^(0.989117352243/2)) / (1+sqrt(((1-1/3*16/(...

On various Ramanujan continued fractions revisited: mathematical connections with some sectors of Particle physics concerning like-particle solutions and dilaton value, String Theory and Supersymmetry Breaking

by

Michele Nardelli

In this revisited research thesis, we have analyzed various Ramanujan continued fractions and described the new possible mathematical connections with some sectors of Particle physics concerning like-particle solutions and dilaton value, String Theory and Supersymmetry Breaking.

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On some equations concerning the "Dualisation of Dualities", String Theory and Supersymmetry Breaking. New possible mathematical connections with various sectors of Number Theory and Planck CMB data

by

Michele Nardelli

In this research thesis, we analyze some equations concerning the "Dualisation of Dualities", String Theory and Supersymmetry Breaking. We describe new possible mathematical connections with various sectors of Number Theory and Planck CMB data

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...ear to the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

Gauge and gravitational anomalies in D = 4 N = 1 orientifolds

by

Scrucca, Claudio A, Serone, Marco

This mention was found in a paper hosted outside of Academia.edu

...5 (1995) 4724, hep-th/9510017. C. Angelantonj, M. Bianchi, G. Pradisi, A. Sagnotti and Y.S. Stanev, **Chiral asymmetry in four-dimensional open-string vacua**, Phys. Lett. B 385 (1996) 96, hep-th/9606169. Z. Kakushadze and G. Shiu, A chiral N=1 Type I vacuum...

Analyzing some parts of Ramanujan's Manuscripts revisited: Mathematical connections between several Ramanujan's equations, the Rogers-Ramanujan continued fractions and some sectors of String Theory, Supersymmetry Breaking, Cosmology and Theoretical Physics

by

Michele Nardelli

In this research thesis, we have analyzed some parts of Ramanujan's Manuscripts and obtained new mathematical connections between several Ramanujan's equations, the Rogers-Ramanujan continued fractions and some sectors of String Theory, Supersymmetry Breaking, Cosmology and Theoretical Physics . v2 - 10.02.2021

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Further mathematical connections between the Dark Matter candidate particles, some Ramanujan formulas, some sectors of String Theory and the Physics of Black Holes

by

Michele Nardelli

In the present research thesis, we have obtained further interesting new possible mathematical connections concerning some sectors of Ramanujan's mathematics, some sectors of Particle Physics, inherent principally the Dark Matter candidate particles, some sectors of String Theory and the physics of black holes (Ramanujan-Nardelli mock formula). v2 - 10.02.2021

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On the development of several equations concerning the "Twisted self-duality of doubled fields and superdualities", String Theory and Supersymmetry Breaking. New possible mathematical connections with some sectors of Number Theory and Planck CMB data

by

Michele Nardelli

In this research thesis, we analyze various equations concerning the "Twisted self-duality of doubled fields and superdualities", String Theory and Supersymmetry Breaking. We describe new possible mathematical connections with some sectors of Number Theory and Planck CMB data In the below link a paper that is the continuation of work: https://www.academia.edu/45098309/On_some_equations_concerning_the_Dualisation_of_Dualities_String_Theory_and_Supersymmetry_Breaking_New_possible_mathemat

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 80 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On the possible mathematical connections between some equations of various topics concerning the String Theory, D-Branes, Supersymmetry Breaking and several sectors of Number Theory revisited (Rogers-Ramanujan continued fractions and mock theta functions).

by

Michele Nardelli

In this research thesis, we have described some new mathematical connections between some equations of various topics concerning the String Theory, D-Branes, Supersymmetry Breaking and some sectors of Number Theory (Rogers-Ramanujan continued fractions and mock theta functions). v3 - 09.02.2021

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Properties of N...

On the Ramanujan Modular Equations, Class Invariants and Mock Theta Functions: new possible mathematical connections with various sectors of String Theory, Supersymmetry Breaking, Black Holes entropies, some particle-like solutions, ζ(2) and Golden Ratio

by

Michele Nardelli

In the present research thesis, we have obtained various interesting new possible mathematical connections between Ramanujan Modular Equations, Class Invariants, Mock Theta Functions and several sectors of String Theory, Supersymmetry Breaking, Black Holes entropies, some particle-like solutions, ζ(2) and Golden Ratio v2 - 08.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Series represen...

On the development of several equations linked to the Cremmer-Julia-Scherk Action. New possible mathematical connections with some sectors of Number Theory and Planck CMB data. II

by

Michele Nardelli

In this research thesis (part II), we analyze various equations linked to the Cremmer-Julia-Scherk Action. We describe new possible mathematical connections with some sectors of Number Theory and Planck CMB data

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...o dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On the Ramanujan's Mock theta functions of tenth order revisited: new possible mathematical developments and mathematical connections with some sectors of String Theory, Supersymmetry Breaking, Particle Physics and Black Hole physics

by

Michele Nardelli

In the present revisited research thesis, we have obtained various and interesting new possible mathematical developments concerning some Ramanujan's Mock theta functions of tenth order and mathematical connections with some sectors of String Theory, Supersymmetry Breaking, Particle Physics and Black Hole physics v3 - 08.02.2021

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27 M^2)/3*[1-(b/euler nu...

On the analysis of asymptotic formulas for the density of string states. Possible mathematical connections with the Hardy-Ramanujan partition formula.

by

Michele Nardelli

In this research thesis, we have analyzed asymptotic formulas for the density of string states. We describe the possible mathematical connections with the Hardy-Ramanujan partition formula Here another link of the above paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Hardy-Ramanujan%20and%20strings.pdf

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...alue . = and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] e^(0.989117352243/2)) / (1+sqrt(((1-1/3*16/(...

On the new possible mathematical connections between the possible developments and solutions of Ramanujan's equations, various parameters of Particle Physics, String Theory, Brane Supersymmetry Breaking and Cosmology

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described further new possible mathematical connections with some parameters of Particle Physics, String Theory, Brane Supersymmetry Breaking and Cosmology v2 - 07.02.2021

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On the development of several equations linked to the Cremmer-Julia-Scherk Action. New possible mathematical connections with some sectors of Number Theory and Planck CMB data

by

Michele Nardelli

In this research thesis, we analyze various equations linked to the Cremmer-Julia-Scherk Action. We describe new possible mathematical connections with some sectors of Number Theory and Planck CMB data

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...ve the Cremmer, Julia and Scherk action: Topics in Supersymmetry Theory: 1. A Superspace Action for **Ten-Dimensional Supersymmetric Yang-Mills Theory in Terms of Four-Dimensional Superfields**; 2. Gauge Groups for Type-I Superstrings -Thesis by Augusto Sagnotti -In Partial Fulfillment of the...

On some Ramanujan expressions revisited: mathematical connections with ϕ and various formulas concerning several sectors of String Theory, Supersymmetry Breaking, Cosmology and Black Holes Physics

by

Michele Nardelli

In this revisited paper we have described some Ramanujan formulas and obtained some mathematical connections with and various equations concerning different sectors of String Theory, Supersymmetry Breaking, Cosmology and Black Holes Physics.

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Properties of N...

On the development of several equations concerning "Tadpoles, String Theory and Supersymmetry Breaking". New possible mathematical connections with some sectors of Number Theory

by

Michele Nardelli

In this research thesis, we analyze various equations concerning "Tadpoles, String Theory and Supersymmetry Breaking". We describe new possible mathematical connections with some sectors of Number Theory

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...http://matematicaeducativa.com/foro/viewtopic.php?t=1998 **On tadpoles and vacuum redefinitions in String Theory** E. We have that: -0.0000407865209... We note that: (-0.00008174816994513878222451092701162)/(0.0000...

New mathematical connections between the possible developments and solutions of Ramanujan's equations and various parameters of Particle Physics, some sectors of String Theory, Supersymmetry Breaking and Cosmology revisited

by

Michele Nardelli

In this revisited research thesis, we have analyzed further Ramanujan formulas and described the possible mathematical connections with various parameters of Particle Physics, some sectors of String Theory, Supersymmetry Breaking and Cosmology v2 - 05.02.2021

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Properties of N...

On some Ramanujan formulas revisited: new possible mathematical connections with various parameters of Particle Physics and several sectors of String Theory, Supersymmetry Breaking, Dark Matter, Dark Energy and Cosmology

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with various parameters of Particle Physics and several sectors of String Theory, Supersymmetry Breaking, Dark Matter, Dark Energy and Cosmology. v2 - 05.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On gauge independence for gauge models with soft breaking of BRST symmetry

by

Reshetnyak, Alexander

A consistent quantum treatment of general gauge theories with an arbitrary gauge-fixing in the presence of soft breaking of the BRST symmetry in the field−antifield formalism is developed. It is based on a gauged (involving a field-dependent parameter) version of finite BRST transformations. The prescription allows one to restore the gauge-independence of the effective action at its extremals and therefore also that of the conventional S-matrix for a theory with BRST-breaking terms being additively introduced into a BRST-invariant action in order to achieve a consistency of the functional integral. We demonstrate the applicability of this prescription within the approach of functional renormalization group to the Yang−Mills and gravity theories. The Gribov−Zwanziger action and the refined Gribov−Zwanziger action for a many-parameter family of gauges, including the Coulomb, axial and covariant gauges, are derived perturbatively on the basis of finite gauged BRST transformations starting from Landau gauge. It is proved that gauge theories with soft breaking of BRST symmetry can be made consistent if the transformed BRST-breaking terms satisfy the same soft BRST symmetry breaking condition in the resulting gauge as the untransformed ones in the initial gauge, and also without this requirement.

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...s, AIP Conf. Proc. 767 (2005) 172-202, [arXiv:hep-th/0405069]; N. Bouatta, G. Compère, A. Sagnotti, **An introduction to free higher-spin fields**, [arXiv:hep-th/0409068]; X. Bekaert, S. Cnockaert, C. Iazeolla, M.A. Vasiliev, Nonlinear higher spi...

On various Ramanujan's equations (Hardy-Ramanujan number, taxicab numbers, etc) linked to some parameters and sectors of Standard Model Particles, String Theory and Supersymmetry Breaking revisited: New possible mathematical connections

by

Michele Nardelli

In this revisited research thesis, we have analyzed and deepened various Ramanujan's equations (Hardy-Ramanujan number, taxicab numbers, etc) linked to some parameters and sectors of Standard Model Particles, String Theory and Supersymmetry. We describe also the new possible mathematical connections v2 - 04.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

Further mathematical connections between some Number Theory equations, ϕ, ζ(2) and various topics and parameters of String Theory, D-branes, Supersymmetry Breaking and Particle Physics

by

Michele Nardelli

In this paper we describe and analyze some Number Theory expressions. Furthermore, we have obtained several mathematical connections with ϕ, ζ(2) and various topics and parameters of String Theory, D-branes, Supersymmetry Breaking and Particle Physics. v2 - 04.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

Analyzing various equations concerning "Twist Symmetry and Open-String Wilson Lines". New possible mathematical connections with some Number Theory parameters, String Theory, Supersymmetry Breaking, Planck CMB data and Phi Frequency System

by

Michele Nardelli

In this research thesis, we analyze various equations concerning "Twist Symmetry and Open-String Wilson Lines". We describe the new possible mathematical connections with some Number Theory parameters, String Theory, Supersymmetry Breaking, Planck CMB data and Phi Frequency System

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...musicología (654M) -Escuela de Máster y Doctorado Universidad de la Rioja -AÑO ACADÉMICO: 2017/2018 **Twist Symmetry and Open-String Wilson Lines** -Massimo BIANCHI and Augusto SAGNOTTI -Nuclear Physics B361 (1991) 519-538 -North-Holland Modular e...

On the mathematical connections between some formulas concerning Modular Forms, Elliptic Curves, Ramanujan equations, ϕ, ζ(2) and various topics and parameters of String Theory, Supersymmetry Breaking and Particle Physics revisited

by

Michele Nardelli

In this revisited paper we describe and analyze the mathematical connections between some formulas concerning Modular forms, Ramanujan equations, ϕ, ζ(2) and various topics and parameters of String Theory, Supersymmetry Breaking and Particle Physics. v2 - 03.02.2021 Below the link of the continuation of this work: https://www.academia.edu/45052928/Further_mathematical_connections_between_some_Number_Theory_equations_%CF%86_%CE%B6_2_and_various_topics_and_parame

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Properties of N...

On the new possible mathematical connections between some formulas concerning the Shapiro-Virasoro model in String Theory, Supersymmetry Breaking, Ramanujan equations, ϕ, ζ(2) and various parameters of Particle Physics revisited

by

Michele Nardelli

In this revisited paper we describe and analyze the mathematical connections between some formulas concerning the Shapiro-Virasoro model in String Theory, Supersymmetry Breaking, Ramanujan equations, ϕ, ζ(2) and various parameters of Particle Physics. v2 - 03.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

Analyzing various equations concerning "the complete (1,0) supergravity coupled to tensor and vector multiplets". New possible mathematical connections with some Number Theory parameters, String Theory, Supersymmetry Breaking, Planck CMB data and Phi Frequency System

by

Michele Nardelli

In this research thesis, we analyze various equations concerning the "the complete (1,0) supergravity coupled to tensor and vector multiplets". We obtain new possible mathematical connections with some Number Theory parameters, String Theory, Supersymmetry Breaking, Planck CMB data and Phi Frequency System

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...051986... result that is a very good approximation to the value of the golden ratio 1.618033988749... **Tensor and Vector Multiplets in Six-Dimensional Supergravity** Sergio Ferrara, Fabio Riccioni and Augusto Sagnotti -arXiv:hep-th/9711059v1 10 Nov 1997 We consider...

On the analysis and development of further Ramanujan's equations revisited. New possible mathematical connnections with various parameters of Particle Physics, some sectors of String Theory, Supersymmetry Breaking, ϕ and ζ(2). II

by

Michele Nardelli

In this revisited paper we describe and analyze the mathematical connections between further Ramanujan's expressions and various parameters of Particle Physics, some sectors of String Theory, Supersymmetry Breaking, ϕ and $\zeta(2)$. v2 - 03.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On some equations concerning various topics regarding Instantons in String/M- Theory and Supersymmetry Breaking revisited. Further mathematical connections with some sectors of Number Theory.

by

Michele Nardelli

In this revisited research thesis, we analyze several equations concerning various topics regarding Instantons in String/M-Theory and Supersymmetry Breaking, highlighting the possible mathematical connections with some sectors of Number Theory v2 - 02.02.2021

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...the various equations was carried out according an our possible logical and original interpretation **Type-I strings on magnetised orbifolds and brane transmutation** C. We have: From the algebraic sum between the two equations (18) and , after some calculations:...

On several equations concerning various topics regarding Solitons in String/M- Theory and Supersymmetry Breaking revisited. Mathematical connections with some sectors of Number Theory.

by

Michele Nardelli

In this research thesis, we analyze several equations concerning various topics regarding solitons in String/M-Theory, highlighting the possible mathematical connections with some sectors of Number Theory v2 - 02.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27 M^2)/3*[1-(b/euler nu...

Further equations concerning the "Bra-ket Wormholes". New possible mathematical connections with some Number Theory parameters, String Theory, Supersymmetry Breaking, Planck CMB data and Phi Frequency System. II

by

Michele Nardelli

In this research thesis (Part II), we analyze further equations concerning the "Bra-ket Wormholes". We describe the possible mathematical connections with some Number Theory parameters, String Theory, Supersymmetry Breaking, Planck CMB data and Phi Frequency System.

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On some equations concerning various topics regarding Instantons in String Theory and Supersymmetry Breaking revisited. New possible mathematical connections with two Ramanujan identities involving double series of Bessel functions. IV

by

Michele Nardelli

In this revisited research thesis (part IV), we analyze several equations concerning various topics regarding Instantons in String Theory and Supersymmetry Breaking, highlighting the possible mathematical connections with two Ramanujan identities involving double series of Bessel functions v2 - 01.02.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On some equations concerning the "Frequency of Hawking radiation of black holes" and the "Bra-ket Wormholes". New possible mathematical connections with some sectors of String Theory, Planck CMB data and Phi Frequency System.

by

Michele Nardelli

In this research thesis, we analyze some equations concerning the "Frequency of Hawking radiation of black holes" and the "Bra-ket Wormholes". We describe new possible mathematical connections with some sectors of String Theory, Planck CMB data and Phi Frequency System.

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On some Ramanujan equations concerning the continued fractions. Further possible mathematical connections with some parameters of Particle Physics and Cosmology VI

by

Michele Nardelli

In this research thesis, we have analyzed and deepened some equations concerning the Ramanujan continued fractions. We have described further possible mathematical connections with some parameters of Particle Physics and Cosmology. v1 14.01.2020 UPDATED VERSION 10.10.2020 Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan%2077b.pdf

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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 121 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For $\xi = 1$ we obtain: (...

On some equations concerning the Supersymmetric AdS5 black holes rivisited. Mathematical connections with the Partition Function p(n), some sectors of String Theory, Supersymmetry Breaking and Number Theory

by

Michele Nardelli

In this revisited research thesis, we analyze further equations concerning the Supersymmetric AdS5 black holes, obtaining various mathematical connections with the Partition Function p(n) and some topics of String Theory, Supersymmetry Breaking and Number Theory. v2 - 31.01.2021

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017...

On some equations concerning the "Ramanujan Master Theorem". New possible connections with some sectors of String Theory, Planck CMB data and Phi Frequency System

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Michele Nardelli

In this research thesis, we analyze some equations concerning the "Ramanujan Master Theorem". We obtain new possible connections with some sectors of String Theory, Planck CMB data and Phi Frequency System.

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On the analysis of further Ramanujan equations revisited: mathematical connections with various formulas concerning some arguments of String Theory, Supersymmetry Breaking, Cosmology and Black Holes/Wormholes Physics

by

Michele Nardelli

In this revisited paper we have described several Ramanujan's formulas and obtained some mathematical connections with various equations concerning different sectors of String Theory, Supersymmetry Breaking, Cosmology and Black Holes/Wormholes Physics. v2 - REVISITED VERSION 31.01.2021

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On the analysis of several Ramanujan formulas revisited: new possible mathematical connections with various parameters of Particle Physics, some sectors of String Theory, Supersymmetry Breaking and Cosmology

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In this research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with various parameters of Particle Physics, some sectors of String Theory, Supersymmetry Breaking and Cosmology v2 - 30.01.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On the Ramanujan's mathematics (Rogers-Ramanujan continued fractions, Hardy-Ramanujan number and sixth order mock theta functions) applied to various parameters of Particle Physics: New possible mathematical connections II

by

Michele Nardelli

In this research thesis (Part II), we have analyzed and deepened further Ramanujan expressions (Rogers-Ramanujan continued fractions, Hardy-Ramanujan number and sixth order mock theta functions) applied to various parameters of Particle Physics. We have therefore described new possible mathematical connections. v1 28.01.2020 UPDATED VERSION 09.10.2020

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On the analysis and development of some equations concerning the "Integrable Scalar Cosmologies and Climbing Scalars" and the Riemann work "Gravity, Electricity and Magnetism". New possible mathematical connections with some sectors of Number Theory and Planck CMB data

by

Michele Nardelli

In this research thesis, we analyze and develop some equations concerning the "Integrable Scalar Cosmologies and Climbing Scalars" and the Riemann work "Gravity, Electricity and Magnetism". We describe new possible mathematical connections with some sectors of Number Theory and Planck CMB data

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On several Ramanujan equations linked to some sectors of String Theory concerning the Black Hole Physics (black strings) and the Supersymmetry Breaking revisited: new possible mathematical connections

by

Michele Nardelli

In this research thesis, we have analyzed and deepened further Ramanujan expressions (mock theta functions and taxicab numbers) applied to some sectors of String Theory concerning the Black Hole Physics (black strings) and the Supersymmetry Breaking. We have therefore described the new possible mathematical connections. v2 - 29.01.2021

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On various Ramanujan equations applied to some sectors of String Theory, to the Black Hole Physics and to the "Supersymmetry Breaking" revisited: new possible mathematical connections

by

Michele Nardelli

In this research thesis, we have applied further Ramanujan expressions to some sectors of String Theory, the Black Hole Physics and to the "Supersymmetry Breaking". We have therefore described the new possible mathematical connections. v2 - 29.01.2021

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Properties of N...

On the mathematical analysis and development of some equations concerning the "Gauged Kahler Isometry in Minimal Supergravity Models of Inflation" and the Riemann elliptic modular functions. Further possible connections with some sectors of Number Theory and Planck CMB data. IX

by

Michele Nardelli

In this research thesis, we analyze and develop further equations concerning the "Gauged Kahler Isometry in Minimal Supergravity Models of Inflation" and the Riemann elliptic modular functions. We describe further possible connections with some sectors of Number Theory and Planck CMB data

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

Analyzing several Ramanujan's equations (mock theta functions and taxicab numbers) applied to various sectors of M-Theory (braneworld) and to the Black Hole Physics revisited: new possible mathematical connections

by

Michele Nardelli

In this research thesis, we have analyzed and deepened further Ramanujan expressions (mock theta functions and taxicab numbers) applied to some sectors of M-Theory (braneworld) and to the Black Hole Physics. We have therefore described other new possible mathematical connections. v2 - 28.01.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

The scientific work of Sonia Stanciu

by

Bachas, Constantin

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...tanev, "Planar duality in SU(2) WZW models," Phys. Lett. B 354, 279 (1995) [arXiv:hep-th/9503207]. "**Completeness Conditions for Boundary Operators in 2D Conformal Field Theory**," Phys. Lett. B 381, 97 (1996) [arXiv:hep-th/9603097]. M. R. Douglas, "Lectures on D-branes on Cala...

On some new mathematical connections between various equations of the Bouncing Cosmology, the Cosmological Constraints concerning the Dilaton Inflation and some sectors of Number Theory, principally the Rogers-Ramanujan continued fractions and the Ramanujan's mock theta functions

by

Michele Nardelli

In this research thesis, we have described the new possible mathematical connections between some equations of various topics concerning the Bouncing Cosmology, the Cosmological Constraints regarding the Dilaton Inflation and some sectors of Number Theory, principally the Rogers-Ramanujan continued fractions and the Ramanujan's mock theta functions v1 31.10.2019 UPDATED VERSION 10.10.2020 Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Bouncing%20cosmology%20and%20f(T)%20gravity-Number%20Theory%20B.pdf

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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 144 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ = 1 we obtain: (...

Further analysis of various equations concerning the "Gauged Kahler Isometry in Minimal Supergravity Models of Inflation". New possible mathematical connections with some sectors of Number Theory and Planck CMB data. VIII

by

Michele Nardelli

In this research thesis, we analyze and develop further equations concerning the " Gauged Kahler Isometry in Minimal Supergravity Models of Inflation", obtaining new possible mathematical connections with some sectors of Number Theory and Planck CMB data.

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On some Ramanujan equations (mock theta functions and taxicab numbers) linked to various sectors of String Theory (Brane-World) and to the Black Hole Physics revisited: Further new possible mathematical connections X

by

Michele Nardelli

In this revisited research thesis, we have analyzed and deepened further Ramanujan expressions (mock theta functions and taxicab numbers) applied to some sectors of String Theory (Brane-World) and to the Black Hole Physics. We have therefore described other new possible mathematical connections. v2 - 27.01.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27 M^2)/3*[1-(b/euler nu...

On the analysis and development of some equations concerning the "Gauged Kahler Isometry in Minimal Supergravity Models of Inflation". Further possible mathematical connections with some sectors of Number Theory and Planck CMB data. VII

by

Michele Nardelli

In this research thesis, we analyze and develop further equations concerning the " Gauged Kahler Isometry in Minimal Supergravity Models of Inflation", obtaining new possible connections with some sectors of Number Theory and Planck CMB data.

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On the Ramanujan's mathematics (Rogers-Ramanujan continued fractions, taxicab numbers and Manuscript Book 1 formulae) applied to various sectors of String Theory and to the Black Hole Physics revisited: Further new possible mathematical connections XII

by

Michele Nardelli

In this revisited research thesis, we have analyzed and deepened further Ramanujan expressions (Rogers-Ramanujan continued fractions, taxicab numbers and Manuscript Book 1 formulae) applied to some sectors of String Theory and to the Black Hole Physics. We have therefore described other new possible mathematical connections. v2 - 26.01.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On the mathematical analysis and development of some equations concerning the "Gauged Kahler Isometry in Minimal Supergravity Models of Inflation". New possible connections with some sectors of Number Theory and Planck CMB data. VI

by

Michele Nardelli

In this research thesis, we analyze and develop some equations concerning the " Gauged Kahler Isometry in Minimal Supergravity Models of Inflation", obtaining new possible connections with some sectors of Number Theory and Planck CMB data.

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On several equations concerning the "Theory of Heat Radiation" and "Lectures on Gas Theory". New mathematical connections with some sectors of String Theory and Number Theory. II

by

Michele Nardelli

In this research thesis (part II), we analyze some equations concerning the "Theory of Heat Radiation" and "Lectures on Gas Theory". We describe the new possible mathematical connections with some sectors of Number Theory and String Theory. UPDATED VERSION 21.12.2020

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Sgoldstino-less inflation and low energy SUSY breaking

by

Riccardo Argurio, Dries Coone, Lucien Heurtier, Alberto Mariotti

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...Lett. B724 (2013) 322-327, [arXiv:1302.0866]. I. Antoniadis, E. Dudas, S. Ferrara, and A. Sagnotti, **The Volkov-Akulov-Starobinsky supergravity, Phys. Lett. B733 (2014) 32**-35, [arXiv:1403.3269]. E. A. Bergshoeff, D. Z. Freedman, R. Kallosh, and A. Van Proeyen, Pure de Si...

Further development and analysis of several Ramanujan's equations applied to various sectors of Particle Physics, String Theory and Cosmology revisited: new possible mathematical connections

by

Michele Nardelli

In this revisited research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with some sectors of String Theory, Particle Physics and Cosmology v2 - 25.01.2021

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On the mathematical analysis and development of some equations concerning the "Inflation and Integrable One-Field Cosmologies Embedded in Gauged Supergravity". New possible connections with some sectors of Number Theory and Planck CMB data. V

by

Michele Nardelli

In this research thesis, we analyze and develop some equations concerning the "Inflation and Integrable One-Field Cosmologies Embedded in Gauged Supergravity", obtaining new possible connections with some sectors of Number Theory and Planck CMB data.

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On the possible mathematical connections between the Planck CMB data, the frequencies system based on the Phi interval, several equations regarding the Riemann zeta function and some topics of Gauged Supergravity IV

by

Michele Nardelli

In this research thesis, we analyze the new possible mathematical connections between the Planck multipole spectrum data CMB, the frequencies system based on the Phi interval, various equations regarding the Riemann zeta function and some sectors of Gauged Supergravity

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On Ramanujan's mathematics applied to various sectors of Particle Physics, String Theory (Supersymmetry Breaking) and Cosmological parameters (dilaton and inflaton values) revisited: new possible mathematical connections

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan equations and described the new possible mathematical connections with various sectors of Particle Physics, String Theory (Supersymmetry Breaking) and Cosmological parameters (dilaton and inflaton values). v2 - 24.01.2021

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On the mathematical connections between some Ramanujan expressions, various parameters of Particle Physics, some sectors of String Theory, ϕ and $\zeta(2)$ revisited.

by

Michele Nardelli

In this paper we describe and analyze the mathematical connections between some Ramanujan expressions, various parameters of Particle Physics, some sectors of String Theory, ϕ and $\zeta(2)$. v2 - 24.01.2021

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On the new possible mathematical connections between Ramanujan equations, expressions concerning "Pre-Inflationary Climbing Phase", some sectors of String Theory and Number Theory revisited

by

Michele Nardelli

In this revisited research thesis, we describe and analyze the possible mathematical connections between Ramanujan equations, expressions concerning "Pre-Inflationary Climbing Phase", some sectors of String Theory and Number Theory. v2 - 23.01.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

Further possible mathematical connections between the Planck multipole spectrum data CMB, the frequencies system based on the Phi interval, several equations regarding the quantum cosmology, the Riemann zeta function and some sectors of String Theory. III

by

Michele Nardelli

In this research thesis (part III), we analyze the further possible mathematical connections between the Planck multipole spectrum data CMB, the frequencies system based on the Phi interval, various equations regarding the quantum cosmology, the Riemann zeta function and some sectors of String Theory Below the link of the part IV of this work:

https://www.academia.edu/44966967/On_the_possible_mathematical_connections_between_the_Planck_CMB_data_the_frequencies_system_based_on_the_Phi_interval_sev

more ▾

...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

Tensorial Methods and Renormalization in Group Field Theories

by

Carrozza, Sylvain

This mention was found in a paper hosted outside of Academia.edu

...ach to Quantum Gravity. Living Rev.Rel., 16:3, 2013, 1205.2019. Marc H Goroff and Augusto Sagnotti. **The ultraviolet behavior of einstein gravity**. Nuclear Physics B, 266(3):709-736, 1986. Lee Smolin. The Case for background independence. 2005, h...

A proposal: On the possible mathematical connections between the Planck multipole spectrum data CMB, the frequencies system based on the Phi interval, various equations regarding some sectors of Number Theory and String Theory (Supersymmetry Breaking)

by

Michele Nardelli

In this paper, we analyze the possible mathematical connections between the Planck multipole spectrum data CMB, the frequencies system based on the Phi interval, various equations regarding some sectors of Number Theory and String Theory (Supersymmetry Breaking)

more ▾

...icle/102/109/) Also performing the 512 th root of the inverse value of the Pion meson rest mass 139 **An Update on Brane Supersymmetry Breaking** J. From the following vacuum equations: we have obtained, from the results almost equals of the eq...

On some equations concerning various topics regarding Instantons in String/M- Theory revisited. New possible mathematical connections with some sectors of Number Theory. II

by

Michele Nardelli

In this revisited research thesis (part II), we analyze several equations concerning various topics regarding instantons in String/M-Theory, highlighting the new possible mathematical connections with some sectors of Number Theory v2 - 22.01.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On Ramanujan's mathematics: on some connections with ϕ, various formulas concerning the Particle Physics and in particular the d*-Hexaquark and some sectors of String Theory (Brane Supersymmetry Breaking)

by

Michele Nardelli

In this revisited paper we have described some connections between Ramanujan's mathematics, , various formulas concerning the Particle Physics, in particular the d * (2380)-Hexaquark and some sectors of String Theory (Brane Supersymmetry Breaking) v2 - 22.01.2021

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...to the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

Anomalies and the Euler characteristic of elliptic Calabi−Yau threefolds

by

Grassi, Antonella, Morrison, David R.

This mention was found in a paper hosted outside of Academia.edu

...rsymmetric D=10 gauge theory and superstring theory, Phys. Lett. B 149 (1984) 117-122. A. Sagnotti, **A note on the Green-Schwarz mechanism in open string theories**, Phys. Lett. B 294 (1992) 196-203, arXiv:hep-th/9210127. V. Sadov, Generalized Green-Schwarz mechan...

On some equations concerning two Ramanujan identities involving doubly infinite series of Bessel functions revisited. Mathematical connections with some results regarding the Instantons and various sectors of String Theory

by

Michele Nardelli

In this research thesis, we analyze several equations concerning two Ramanujan identities involving doubly infinite series of Bessel functions. We obtain possible mathematical connections with some results regarding the Instantons and various sectors of String Theory

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Properties of N...

On further possible mathematical connections between the Planck multipole spectrum data CMB, the frequencies system based on the Phi interval, various equations regarding the quantum cosmology, the Riemann zeta function and some sectors of String Theory II

by

Michele Nardelli

In this research thesis, we analyze the further possible mathematical connections between the Planck multipole spectrum data CMB, the frequencies system based on the Phi interval, various equations regarding the quantum cosmology, the Riemann zeta function and some sectors of String Theory

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March $27e^{(0.989117352243/2)}$) ...

Axiomatic Conformal Field Theory

by

Gaberdiel, Matthias R., Goddard, Peter

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... genera, Lett. Math. Phys. 33 (1995) 335, hep-th/9404012. G. Pradisi, A. Sagnotti and Y. S. Stanev, **Planar duality in SU (2) WZW models**, Phys. Lett. B354 (1995) 279, hep-th/9503207. G. Pradisi, A. Sagnotti and Y. S. Stanev, The open de...

On the possible mathematical connections between the Planck multipole spectrum data CMB, the frequencies system based on the Phi interval, various equations regarding the Theory of the Riemann zeta Function and the Theory of the distributions of primes and some sectors of String Theory

by

Michele Nardelli

In this research thesis, we analyze the new possible mathematical connections between the Planck multipole spectrum data concerning the CMB, the frequencies system based on the Phi interval, various equations regarding the Theory of the Riemann zeta Function and the Theory of the distributions of primes and some sectors of String Theory Below the link of the part II of this work: https://www.academia.edu/44949717/On_further_possible_mathematical_connections_between_the_Planck_multipole_spectrum_data_CMB_the_frequencies_system_based

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On the various Ramanujan equations (mock theta functions and taxicab numbers) linked to some sectors of String Theory (black branes and supersymmetry breaking) and Black Hole Physics revisited: Further new possible mathematical connections

by

Michele Nardelli

In this revisited research thesis, we have analyzed and deepened further Ramanujan expressions (mock theta functions and taxicab numbers) applied to some sectors of String Theory (black branes and supersymmetry breaking) and Black Hole Physics. We have therefore described other new possible mathematical connections. v2 - 20.01.2021

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March $27e^{(0.989117352243/2)}$) ...

On several Ramanujan's Nested Radicals revisited: new possible mathematical connections with φ, ζ(2), and various parameters of Cosmology, some sectors of String Theory, Supersymmetry Breaking and Particle Physics

by

Michele Nardelli

In this revisited paper we have described and analyzed some Ramanujan's Nested Radicals. Furthermore, we have obtained various mathematical connections with φ, ζ(2), and several parameters of Cosmology some sectors of String Theory, Supersymmetry Breaking and Particle Physics v2 - 20.01.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, $/3*16/(Pi)^2*e^{(2*0}$....

On the new possible mathematical connections between the Planck multipole spectrum data concerning the CMB, the frequencies system based on the Phi interval, various equations regarding the Black Hole Physics and Entropy and some sectors of Number Theory and String Theory

by

Michele Nardelli

In this research thesis, we analyze the new possible mathematical connections between the Planck multipole spectrum data concerning the CMB, the frequencies system based on the Phi interval, various equations regarding the Black Hole Physics and Entropy, some sectors of Number Theory and String Theory

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

Cubic interaction for higher spins in AdS+1 space in the explicit covariant form

by

Melik Karapetyan, Ruben Manvelyan, Rubik Poghossian

This mention was found in a paper hosted outside of Academia.edu

...n-3 massless fields," JHEP 0611 (2006) 034; hep-th/0609221. D. Francia, J. Mourad and A. Sagnotti, "**Current exchanges and unconstrained higher spins**," Nucl. Phys. B 773 (2007) 203; arXiv:hep-th/0701163. A. Fotopoulos and M. Tsulaia, "Gauge Invarian...

On some Ramanujan's Approximations to π revisited: mathematical connections with φ, ζ(2), various parameters of Particle Physics and some sectors of String Theory.

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan's Approximations to π. Furthermore, we have obtained various mathematical connections with φ, ζ(2), several parameters of Particle Physics and some sectors of String Theory v2 - 19.01.2021

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Properties of N...

On various Ramanujan equations revisited: mathematical connections with ϕ and some formulas concerning several sectors of Cosmology, Black Holes/Wormholes Physics and String Theory

by

Michele Nardelli

In this revisited paper, we have described some Ramanujan formulas and obtained some mathematical connections with ϕ and various equations concerning different sectors of Cosmology, Black Holes/Wormholes Physics and String Theory. v2 - 19.01.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On further Ramanujan's elliptic integrals and BH-Wormholes equations revisited: new possible mathematical connections with φ, ζ(2), several parameters of High Energy Physics, Supersymmetry Breaking and String Theory

by

Michele Nardelli

In this paper we have described some Ramanujan incomplete elliptic integrals and Black Holes-Wormholes formulas. Furthermore, we describe new possible mathematical connections with , 2 , and various parameters of High Energy Physics, Supersymmetry Breaking and String Theory v2 - 19.01.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On the analysis of some equations concerning the degeneracies of BPS states of D-branes on compact Calabi-Yau manifolds revisited. New possible mathematical connections with the Partition Number p(n) and some sectors of Number Theory

by

Michele Nardelli

In this revisited research thesis, we analyze further equations concerning the degeneracies of BPS states of D-branes on compact Calabi-Yau manifolds, obtaining various mathematical connections with the Partition Number p(n) and some topics of Number Theory v2 - 18.01.2021

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27 . result very near to...

Classification of String Theories via Topological Phases

by

Justin Kaidi, Julio Parra-Martinez, Yuji Tachikawa

This mention was found in a paper hosted outside of Academia.edu

...th integrals and topological phases, Rev. Mod. Phys. 88, 035001 (2016). M. Bianchi and A. Sagnotti, **On the systematics of open string theories**, Phys. Lett. B 247, 517 (1990). A. Sagnotti, Some properties of open string theories, in Supersymme...

On some equations concerning Fivebranes and Knots, Wilson Loops in Chern-Simons Theory, cusp anomaly and integrability from String theory. Possible mathematical connections with some sectors of Number Theory and Brane Supersymmetry Breaking

by

Michele Nardelli

The present paper is a review, a thesis of some very important contributes of E. Witten, C. Beasley, R. Ricci, B. Basso et al. regarding various applications concerning the Jones polynomials, the Wilson loops and the cusp anomaly and integrability from string theory. In this work, in the Section 1, we have described some equations concerning the knot polynomials, the Chern-Simons from four dimensions, the D3-NS5 system with a theta-angle, the Wick rotation, the comparison to topological field theory, the Wilson loops, the localization and the boundary formula. We have described also some equations concerning electric-magnetic duality to N = 4 super Yang-Mills theory, the gravitational coupling and the framing anomaly for knots. Furthermore, we have described some equations concerning the gauge theory description, relation to Morse theory and the action. In the Section 2, we have described some equations concerning the applications of non-abelian localization to analyze the Chern-Simons path integral including Wilson loop insertions. In the Section 3, we have described some equations concerning the cusp anomaly and integrability from String theory and some equations concerning the cusp anomalous dimension in the transition regime from strong to weak coupling. In the Section 4, we have described also some equations concerning the "fractal" behaviour of the partition function. Also here, we have described some mathematical connections between various equation described in the paper and (i) the Ramanujan's modular equations regarding the physical vibrations of the bosonic strings and the superstrings, thence the relationship with the Palumbo-Nardelli model, (ii) the mathematical connections with the Ramanujan's equations concerning π and, in conclusion, (iii) the mathematical connections with the aurea ratio and with 1,375 that is the mean real value for the number of partitions p(n). We describe also the possible mathematical connections with several equations of Brane Supersymmetry Breaking

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...ond to the exponents of e (i.e. of exp). Thence we obtain for p = 5 and β E = 1/2: −6 + = 4096 − 18 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On the new possible mathematical connections between the Planck multipole spectrum data concerning the CMB, the frequencies system based on the Phi interval, various equation regarding the "braneworld wormholes" and some sectors of Number Theory and String Theory

by

Michele Nardelli

In this research thesis, we analyze the new possible mathematical connections between the Planck multipole spectrum data concerning the CMB, the frequencies system based on the Phi interval, various equation regarding the "braneworld wormholes" and some sectors of Number Theory and String Theory

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Five-dimensional supergravity in N = 1/2 superspace

by

Katrin Becker, Melanie Becker, Daniel Butter, William D. Linch, Stephen Randall

This mention was found in a paper hosted outside of Academia.edu

...of 6D SUGRA, JHEP 11 (2017) 146 [arXiv:1708.09106] [INSPIRE]. N. Marcus, A. Sagnotti and W. Siegel, **Ten-dimensional Supersymmetric Yang-Mills Theory in Terms of Four-dimensional Superfields**, Nucl. Phys. B 224 (1983) 159 [INSPIRE]. K. Becker, M. Becker, W.D. Linch and D. Robbins, Abelian t...

A tale of three — tensionless strings and vacuum structure

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...and A. Miwa, GCA in 2d, JHEP 08 (2010) 004 [arXiv:0912.1090] [INSPIRE]. A. Sagnotti and M. Tsulaia, **On higher spins and the tensionless limit of string theory**, Nucl. Phys. B 682 (2004) 83 [hep-th/0311257] [INSPIRE]. G. Bonelli, On the tensionless limit of bo...

Developing several Ramanujan's equations applied to various topics of Particle Physics and Cosmology revisited: new possible mathematical connections with the values of Pion mesons and other elementary particles and some sectors of String Theory.

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with some sectors of Particle Physics (values of Pion mesons and other baryons and mesons), some sectors of String Theory and Cosmology v2 - 17.01.2021

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Properties of N...

New mathematical connections concerning string theory

by

Michele Nardelli

The purpose of this work is to describe the relationships found between Palumbo's model on the origin and evolution of the Universe and the string theory. Palumbo's model is summarized by the relation (5.2), where F represents the initial energy of the Big Bang, that is, the explosion of the black hole from which the universe originated. From the Big Bang, all imaginable waves of F. were released. Like the electromagnetic radiations, which consist of a continuous succession of sets of waves, also F radiations are constituted by partial sets of waves, defined as Fi. After having described the bosonic and superstring actions, the connections found between them and the Palumbo model are highlighted. Furthermore, the connections found between the actions of Dirichlet branes, namely the D3 and D9-brane and the Palumbo model are highlighted. Also for some string actions inherent to the pre Big-Bang cosmological model, connections with the Palumbo model are highlighted. Finally, the relationships found between some soliton solutions in string field theory and some equations related to the Riemann zeta function are described. It is therefore highlighted that the connection with the Palumbo model is also possible for the latter.

more ▾

...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

New mathematical connections concerning string theory: II

by

Michele Nardelli

In the present thesis, further connections found between some sectors of string theory and the Palumbo model are highlighted. Recall that this model is summarized by the relation (2.33), where F represents the initial energy of the Big Bang, that is, the explosion of the black hole from which the universe originated, (correlated to the bosonic string action) constituted a in turn from partial sets of waves, defined as Fi (correlated to the superstring action). The connections found between Palumbo's model and: 1) the D-strings, 2) the gauge / gravity correspondence and the open / closed string duality, 3) the connection found between some equations of Durr's thesis "On a Gauge and Conformal Invariant Nonlinear Spinor Theory "and the Dirac-Born-Infeld actions for a D3-brane and those underlying the Het / T^4 - IIA / K3 duality conjecture. Further connections found between other formulas related to the Riemann zeta function and some solutions in string cosmology and string field theory are also described. Finally, some differential equations are studied that describe configurations with bare singularities and the mathematical connections found between bare singularities and some theorems applied to solutions of boundary problems for differential equations concerning open sets. Of these differential equations, defined in open sets, the boundary conditions at the boundary of such sets have also been studied. v1 7.11.2006 - v2 20.05.2010

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Further new possible mathematical connections between the Planck multipole spectrum data concerning the CMB, the frequencies system based on the Phi interval, various equations concerning the Cosmological fluctuations and perturbations and some sectors of Number Theory and String Theory.

by

Michele Nardelli

In this research thesis, we analyze the new possible mathematical connections between the Planck multipole spectrum data concerning the CMB, the frequencies system based on the Phi interval, various equations concerning the "evolution of Cosmological fluctuations and perturbations" and some sectors of Number Theory and String Theory.

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

AdS backgrounds and induced gravity

by

Hai Lin, Gaurav Narain

In this paper, we look for AdS solutions to generalized gravity theories in the bulk in various spacetime dimensions. The bulk gravity action includes the action of a non-minimally coupled scalar field with gravity, and a higher-derivative action of gravity. The usual Einstein−Hilbert gravity is induced when the scalar acquires a nonzero vacuum expectation value. The equation of motion in the bulk shows scenarios where AdS geometry emerges on-shell. We further obtain the action of the fluctuation fields on the background at quadratic and cubic orders.

more ▾

This mention was found in a paper hosted outside of Academia.edu

...agnotti, "Quantum Gravity At Two Loops," Phys. Lett. 160B (1985) 81. M. H. Goroff and A. Sagnotti, "**The Ultraviolet Behavior of Einstein Gravity**," Nucl. Phys. B 266 (1986) 709. S. Weinberg, "Critical Phenomena for Field Theorists," HUTP-76-160....

On the analysis of further Ramanujan's elliptic integrals and Wormholes equations revisited: new possible mathematical connections with φ, ζ(2), some parameters of High Energy Physics and some sectors of Number Theory and String Theory

by

Michele Nardelli

In this revisited paper, we have analyzed further Ramanujan's elliptic integrals and Wormholes equations and obtained new possible mathematical connections with φ, ζ(2), some parameters of High Energy Physics and some sectors of Number Theory and String Theory

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On Goldstone Fields with Spin Higher than 1/2

by

D. P. Sorokin

We review the properties of 3d non-linear models of vector and vector-spinor Goldstone fields associated with the spontaneous breaking of certain higher-spin counterparts of supersymmetry (so-called Hietarinta algebras), whose Lagrangians are of the Volkov−Akulov type. At the quadratic order, these Lagrangians contain, respectively, the Chern−Simons and Rarita−Schwinger terms. The vector Goldstone model has a propagating degree of freedom which, in a decoupling limit, is a quartic Galileon scalar field

(similar to those appearing in models of modified gravity). On the other hand, the vector-spinor goldstino retains the gauge symmetry of the Rarita–Schwinger action and eventually reduces to the latter by a non-linear field redefinition. We thus find that, in three space-time dimensions, the free Rarita–Schwinger action is invariant under a hidden rigid symmetry generated by fermionic vector-spinor operators and acting non-linearly on the Rarita–Schwinger goldstino.

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...linear higher spin theories in various dimensions. arXiv:0503128 [hep-th]. D. Francia, A. Sagnotti. **Higher-spin geometry and string theory**. J. Phys. Conf. Ser. 33, 57 (2006). A. Fotopoulos, M. Tsulaia. Gauge invariant Lagrangians for free...

On the Ramanujan's integral equations and Wormholes Mathematics revisited: New possible mathematical connections with ϕ, ζ(2), some parameters of the Standard Model and various sectors of String Theory

by

Michele Nardelli

In this revisited paper, we have described several Ramanujan's integral equations and Wormholes Mathematics. We describe the new possible mathematical connections with ϕ, ζ(2), some parameters of the Standard Model and various sectors of String Theory v2 - 15.01.2021

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27 M^2)/3*[1-(b/euler nu...

On the possible mathematical connections between the Planck multipole spectrum data concerning the CMB, the frequencies system based on the Phi interval and some sectors of Cosmology and String Theory

by

Michele Nardelli

In this research thesis, we analyze the possible mathematical connections between the Planck multipole spectrum data concerning the CMB, the frequencies system based on the Phi interval and some sectors of Cosmology and String Theory

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

Developing some parts of Ramanujan's Manuscripts revisited. New possible mathematical connections between several Ramanujan's equations, some sectors of String Theory and Supersymmetry Breaking

by

Michele Nardelli

In this research thesis, we have analyzed some parts of Ramanujan's Manuscripts and obtained new possible mathematical connections between several Ramanujan's equations, some sectors of String Theory and Supersymmetry Breaking v2 - 15.01.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On the possible mathematical connections between the Planck multipole spectrum data concerning the CMB, the frequencies system based on the Phi interval, the "Integration over the u-Plane in Donaldson Theory" and some sectors of String Theory and Cosmology

by

Michele Nardelli

In this research thesis, we analyze the possible mathematical connections between the Planck multipole spectrum data concerning the CMB, the frequencies system based on the Phi interval, the "Integration over the u-Plane in Donaldson Theory" and some sectors of String Theory and Cosmology Below the link of the connected paper: https://www.academia.edu/44911547/On_the_possible_mathematical_connections_between_the_Planck_multipole_spectrum_data_concerning_the_CMB_the_frequencies_sy

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Properties of N...

Further equations regarding the Supersymmetry/Supergravity revisited. New possible mathematical connections with the Partition Function p(n) and some topics of Number Theory.

by

Michele Nardelli

In this research thesis, we analyze further equations concerning the Supersymmetry/Supergravity, obtaining various mathematical connections with the Partition Function p(n) and some topics of Number Theory v2 - 14.01.2021

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27, 2018 Properties of N...

On the Ramanujan's Mock theta functions of tenth order revisited: new possible mathematical developments and mathematical connections with some sectors of String Theory, Particle Physics and Black Hole physics

by

Michele Nardelli

In the present revisited research thesis, we have obtained various and interesting new possible mathematical developments concerning some Ramanujan's Mock theta functions of tenth order. We describe new possible mathematical connections with some sectors of String Theory, Particle Physics and Black Hole physics v2 - 14.01.2021

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27 Note that 1728 occurs...

On various equations of the Manuscript Book I of Srinivasa Ramanujan revisited: new possible mathematical connections with some sectors of Number Theory, String Theory and Particle Physics

by

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...×10^-23)]-1))^1/15 Input interpretation: Result: 1.64383410656....≈ ζ(2) = π 2 6 = 1.644934 … From: **AdS vacua from dilaton tadpoles and form fluxes** - J.Mourad, A.Sagnotti - Physics Letters B 768 (2017) 92−96 From: 44 For (4Pi^2)/25 = 1.57913670417...

On some equations concerning the String Theory and Supersymmetry Brane revisited. New possible mathematical connections with the Ramanujan-Hardy/Cardy Partition Function and some topics of Number Theory

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On several equations concerning the String Theory, Supersymmetry Brane and Hagedorn Transition. Mathematical connections with the Partition Function p(n) and some topics of Number Theory revisited

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Magnetic quivers, Higgs branches, and 6d N$$ \mathcal{N} $$ = (1, 0) theories — orthogonal and symplectic gauge groups

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Generic Construction of the Standard Model Gauge Group and Matter Representations in F-theory

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On various equations concerning the Conformal Field Theory and String Theory revisited. New possible mathematical connections with the Ramanujan-Hardy Partition Function and some topics of Number Theory

by

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In this research thesis, we analyze various equations concerning the Conformal Field Theory and String Theory and obtain some new possible mathematical connections with the Ramanujan-Hardy Partition Function and some topics of Number Theory v2 - 11.01.2021

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All higher-curvature gravities as Generalized quasi-topological gravities

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Further new possible relationships between several Ramanujan's mathematics parameters, some equations concerning the SO(2^13) group in Bosonic String Theory, various parameters regarding Particle Physics, φ and ζ(2) revisited.

by

Michele Nardelli

In this paper, we describe and analyze further new possible relationships between some Ramanujan's mathematics parameters, several equations concerning the SO(2^13) group, in Bosonic String Theory, various parameters regarding Particle Physics, φ and ζ(2). REVISITED VERSION v2 - 11.01.2021

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F-theory models with U(1) × $\mathbb{Z}$2, $\mathbb{Z}$4 and transitions in discrete gauge groups

by

Yusuke Kimura

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On the possible mathematical connections between "a particular class of partial differential equations of the fourth order over a closed surface", some sectors of String Theory and Cosmology (CMB Planck data analysis)

by

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In this research thesis, we analyze the possible mathematical connections between "a particular class of partial differential equations of the fourth order over a closed surface", some sectors of String Theory and Cosmology (CMB Planck data analysis)

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On various equations concerning the Open Strings, the Higher Spins and Brane Supersymmetry Breaking revisited. New possible mathematical connections with various parameters of Particle Physics and some sectors of Number Theory

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...the various equations was carried out according an our possible logical and original interpretation **Lessons from open-string partition functions** -Augusto Sagnotti -Univ. Roma "Tor Vergata" -JHS60 -Caltech, November 4 2001 Now, we have the follo...

Nonlocal gravity with worldline inversion symmetry

by

Steven Abel, Luca Buoninfante, Anupam Mazumdar

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One-loop divergences in 7D Einstein and 6D conformal gravities

by

R. Aros, F. Bugini, D.E. Diaz

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On the analysis and development of some equations concerning the Open Strings revisited. New possible mathematical connections with various sectors of String Theory, Particle Physics and Number Theory.

by

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In this research thesis, we analyze some equations concerning the Open Strings and obtain various mathematical connections with several sectors of String Theory, Particle Physics and Number Theory. v2 - 09.01.2021

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Supersymmetric continuous spin gauge theory

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Mojtaba Najafizadeh

...rgravity, Cambridge University Press, Cambridge, U.K. (2012) [INSPIRE]. D. Francia and A. Sagnotti, **Free geometric equations for higher spins**, Phys. Lett. B 543 (2002) 303 [hep-th/0207002] [INSPIRE]. D. Francia and A. Sagnotti, On the geomet...

Logarithmic terms in entropy of Schwarzschild black holes in higher loops

by

Sergey N. Solodukhin

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Note on the absence of R2 corrections to Newton's potential

by

Manuel Accettulli Huber, Andreas Brandhuber, Stefano De Angelis, Gabriele Travaglini

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Further analysis and developments of new possible mathematical connections between some Ramanujan formulas and various parameters of Particle Physics, String Theory, ϕ and $\zeta(2)$ revisited

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In this paper, we describe and analyze new mathematical connections between some Ramanujan formulas and various parameters of Particle Physics, String Theory, and $\zeta(2)$. v2 - 08-01-2021

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On the analysis of some equations concerning the "Inflation after the initial Climbing Phase" revisited: mathematical connections with some parameters of Particle Physics and some sectors of String Theory and Number Theory

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In this research thesis, we analyze some equations concerning the topic-Inflation after the initial Climbing Phase‖ and we describe the mathematical connections with some parameters of Particle Physics and some sectors of String Theory and Number Theory. v2 - 08.01.2021 Below the continuation of this work with the link of a new paper:

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On the analysis of several Ramanujan equations revisited: mathematical connections with some cosmological parameters and some sectors of String Theory and Particle physics, in particular the masses of the two Pion mesons

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In this research thesis, we have analyzed various Ramanujan equations and described the new possible mathematical connections with some cosmological parameters and some sectors of String Theory and Particle physics, in particular the masses of the two Pion mesons. v2 - 08.01.2021

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Axionlike particle constraints in gauged N=2 supergravity

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Spin projection operators in (A)dS and partial masslessness

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Sergei M. Kuzenko, Michael Ponds

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On the parameters of SMBH 87 and Primordial Black Holes in String Theory and Inflation revisited: New possible mathematical connections with some Ramanujan equations, and Hausdorff dimension values

by

Michele Nardelli

In this paper we have described the parameters of SMBH 87 and some formulas concerning Primordial Black Holes in String Theory and Inflation. We described also new possible mathematical connections with some Ramanujan equations, , 2 and Hausdorff dimension values v2 - 07.01.2021

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On various Ramanujan's elliptic integrals and Wormholes equations revisited: new further possible mathematical connections with ϕ, $\zeta(2)$, some parameters of High Energy Physics and several sectors of String Theory

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In this paper we have described several Ramanujan's elliptic integrals and Wormholes formulas. Furthermore, we describe new possible mathematical connections with ϕ, $\zeta(2)$, some parameters of High Energy Physics and several sectors of String Theory v2 - 07.01.2021

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On the possible mathematical connections between several linear partial differential equations of mathematical physics, "Open Descendants", some sectors of String Theory and Cosmology

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...n the Hardy-Ramanujan number 1729 (taxicab number) And again: Input interpretation: Result: 1792.64 **The Open Descendants of Non-Diagonal SU(2) WZW Models** -G. Pradisi, A. Sagnotti and Ya.S. Stanev -arXiv:hep-th/9506014v1 2 Jun 1995 We have that: For: Fro...

Analyzing several Ramanujan's equations (Hardy-Ramanujan number, taxicab numbers, etc) linked to some parameters of Standard Model Particles and String Theory revisited: further new possible mathematical connections

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...rmale Superiore (Pisa – Italy) for his very useful explanations and his availability 144 References **Two−Field Born−Infeld with Diverse Dualities** S. π 145 We note that the result -1.1055057810…. is very near to the value of Cosmological Constan...

On some Ramanujan's equations (Hardy-Ramanujan number, taxicab numbers and Rogers-Ramanujan continued fractions) linked to various parameters of Standard Model Particles and String Theory revisited: New possible mathematical connections

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...in the development, and therefore, in the final results of the analyzed expressions. 139 References **Two−Field Born−Infeld with Diverse Dualities** S. Ferrara, A. Sagnotti and A. Yeranyan - arXiv:1602.04566v3 [hep-th] 8 Jul 2016 π 140 We note tha...

On various Ramanujan equations and theorems applied to some sectors of String Theory and Particle Physics revisited: Further new possible mathematical connections

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On the possible mathematical connections between the distribution of prime numbers, multiple zeros of ζ(s), parabolic partial differential equation and some sectors of String Theory and the Planar Duality in SU(2) WZW Models

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... 14th root of the following Ramanujan"s class invariant = 505 / 101/5 3 = 1164.2696 i.e. 1.65578... **Planar Duality in SU(2) WZW Models** -G. Pradisi , A. Sagnotti and Ya.S. Series representations: Integral representations: Multiple-argu...

Further new possible mathematical connections between Ramanujan formulas, equations concerning Feynman Rules of Quantum Field Theory, formulas of fermionic higher-spin fields and some sectors of String Theory and Number Theory revisited. II

by

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...Fields Volume I -Foundations Steven Weinberg -University of Texas at Austin -© Steven Weinberg 1995 **Unconstrained Higher Spins of Mixed Symmetry II. Fermi Fields** - A. Campoleoni, D. Francia, J. Mourad and A. Sagnotti - arXiv:0904.4447v2 [hep-th] 1 Sep 2009 Modu...

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New possible mathematical connections between several Ramanujan formulas, equations concerning Primordial Black Holes and Inflation, Quantum Theory of Fields, some sectors of Number Theory and String Theory revisited

by

Michele Nardelli

In this research thesis, we describe and analyze the new possible mathematical connections between Ramanujan formulas, equations concerning Primordial Black Holes and Inflation, Quantum Theory of Fields, some sectors of Number Theory and String Theory. REVISITED VERSION 05.01.2021

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... be a fundamental ingredient both in the structures of the microcosm and in those of the macrocosm. **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 22 Feb 2017 -March 27, 2018 Properties of Nilpoten...

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Off-shell unimodular N = 1, d = 4 supergravity

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On some Ramanujan formulas revisited: new possible mathematical developments and mathematical connections with some parameters of Particle Physics, of candidate "glueball" f0(1710) meson, some sectors of String Theory and the Black Holes entropies

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting new possible mathematical results concerning various Ramanujan's formulas. Furthermore, we have described new possible mathematical connections with the mass value of candidate "glueball" f0(1710) meson, other particles, some sectors of String Theory and with the Black Hole entropies. REVISITED VERSION 04.01.2021

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Supermassive Gravitinos as candidates for Dark Matter revisited: New mathematical connections with the physics of black holes and some sectors of Ramanujan's mathematics

by

Michele Nardelli

In the present research thesis, we have obtained various interesting new possible mathematical connections concerning some sectors of Ramanujan and Hardy's mathematics, some sectors of Particle Physics, concerning principally the gravitino and the physics of black holes.

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On several equations regarding the JT Gravity, open strings on the Rindler Horizon, Gauge Theory and integrability and Topological Gravity revisited. New mathematical connections with some topics concerning the Ramanujan's mathematics

by

Michele Nardelli

In this revisited research paper we have obtained some interesting mathematical connections between various equations inherent the works concerning JT Gravity, open strings on the Rindler Horizon, Gauge Theory and integrability and Topological Gravity of Witten et al. and some sectors of Ramanujan's mathematics, principally the Mock Theta Functions and $\zeta(2)$ and some expressions concerning the mass of some particles. REVISITED VERSION 04.01.2021

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...sm, therefore in quantum and relativistic physics, and, consequently, in gauge and string theories. **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. 22 Feb 2017 -March 27, 2018 Properties of Nilpotent Supergravity E. 14 Sep 2015 ((sqrt(64-1...

Analyzing some equations concerning the "Classical Stability with Broken Supersymmetry" by Ramanujan's mathematics revisited. New possible mathematical connections with some parameters of Particle Physics and String Theory

by

Michele Nardelli

In this research thesis, we have analyzed and deepened some equations concerning the "Classical Stability with Broken Supersymmetry" by Ramanujan's mathematics and described new possible mathematical connections with some parameters of Particle Physics and String Theory. REVISITED VERSION 03.01.2021

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DDF operators, open string coherent states and their scattering amplitudes

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Massimo Bianchi, Maurizio Firrotta

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...no, Springer Proc. Phys. 153 (2014) 145 doi:10.1007/978-3-319-03774-5-8 [arXiv:1310.4478 [hep-th]]. **A. Sagnotti** and M. Taronna, Nucl. Phys. B 842 (2011) 299 doi:10.1016/j.nuclphysb.2010.08.019 [arXiv:1006.5242 [...

On various Ramanujan equations: new possible mathematical connections with several parameters of Particle Physics, Dark Matter, Dark Energy, String Theory and Cosmology revisited II

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with various parameters of Particle Physics, Dark Matter, Dark Energy, String Theory and Cosmology REVISITED VERSION 03.01.2021 Below the link of the continuation of this work: https://www.academia.edu/44830793/Supermassive_Gravitinos_as_candidates_for_Dark_Matter_revisited_New_mathematical_connections_with_the_physics_of_black_holes

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

On some equations regarding the Dark Matter and the various sectors of Cosmology. New possible mathematical connections with some sectors of String Theory and Number Theory.

by

Michele Nardelli

In this research thesis, we analyze some equations regarding the Dark Matter and the various sectors of Cosmology. We describe new possible mathematical connections with some sectors of String Theory and Number Theory.

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... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27e^(0.989117352243/2)) ...

On further equations regarding "The distribution of prime numbers". New possible mathematical connections with some sectors of String Theory, Black Hole Physics and Number Theory. V

by

Michele Nardelli

In this research thesis (Part V), we analyze further equations regarding "The distribution of prime numbers". We describe the new possible mathematical connections with some sectors of String Theory, Black Hole Physics and Number Theory

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...o the dilaton value . = and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27.. result very near to...

New possible mathematical connections between some equations of various topics concerning the Dilaton value, D-Branes, Bouncing Cosmology, the Riemann's functions of S. Ramanujan and Rogers-Ramanujan continued fractions revisited

by

Michele Nardelli

In this research thesis, we have described some new mathematical connections between some equations of various topics concerning the Dilaton value, the D-Branes, the Bouncing Cosmology and some sectors of Number Theory (Riemann's functions of S. Ramanujan and Rogers-Ramanujan continued fractions). REVISITED VERSION 03.01.2021

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Lecture notes: Functional Renormalisation Group and Asymptotically Safe Quantum Gravity

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Cubic interactions for arbitrary spin N$$ \mathcal{N} $$ -extended massless supermultiplets in 4d flat space

by

R.R. Metsaev

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...gauge fields, Nucl. Phys. B 836 (2010) 204 [arXiv:1003.2877] [INSPIRE]. A. Sagnotti and M. Taronna, **String Lessons for Higher-Spin Interactions**, Nucl. Phys. B 842 (2011) 299 [arXiv:1006.5242] [INSPIRE]. R. Manvelyan, K. Mkrtchyan and W. Ruehl,...

On the Rogers-Ramanujan identities and continued fractions revisited: new possible mathematical developments and mathematical connections with the mass value of candidate "glueball" f0(1710) meson, other particles, String Theory and the Black Hole entropies.

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting new possible mathematical results concerning the Rogers-Ramanujan identities and some continued fractions. Furthermore, we have described new possible mathematical connections with the mass value of candidate "glueball" f0(1710) meson, other particles, String Theory and with the Black Hole entropies. REVISITED VERSION 02.01.2021

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...sylvania, Philadelphia PA 19104, USA (Dated: November 17, 2017) 258 259 References Wikipedia π 260 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 Properties o...

Mathematical connections between some Ramanujan equations concerning p(n) and τ(n), several equations concerning Mock Modularity in M-theory duality, various parameters concerning Particle Physics, String Theory, φ and ζ(2) revisited. II

by

Michele Nardelli

In this paper we describe and analyze further new mathematical connections between some Ramanujan formulas concerning p(n) and τ(n), several equations concerning Mock Modularity in M-theory duality, various parameters concerning Particle Physics, String Theory, φ and ζ(2). REVISITED VERSION - 02.01.2021

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On the analysis and development of various equations regarding "The distribution of prime numbers" and Black Hole Entropy in String Theory. New possible mathematical connections with some sectors of Number Theory and String Theory IV

by

Michele Nardelli

In this research thesis (Part IV), we analyze various equations concerning "The distribution of prime numbers" and Black Hole Entropy in String Theory. We describe the new possible mathematical connections with some sectors of Number Theory and String Theory

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... on Brane Supersymmetry Breaking J. Mourad and A. Sagnotti -arXiv:1711.11494v1 [hep-th] 30 Nov 2017 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017...

Asymptotically Weyl-invariant gravity

by

Daniel Coumbe

We propose a novel theory of gravity that by construction is renormalizable, evades Ostrogradsky's no-go theorem, is locally scale-invariant in the high-energy limit, and equivalent to general relativity in the low-energy limit. The theory is defined by a pure [Formula: see text] action in the Palatini formalism, where the dimensionless exponent [Formula: see text] runs from a value of two in the high-energy limit to one in the low-energy limit. We show that the proposed model contains no obvious cosmological curvature singularities. The viability of the proposed model is qualitatively assessed using several key criteria.

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On the possible mathematical connections between several Ramanujan equations concerning p(n) and τ(n), some equations concerning the SO(N) group in Bosonic String Theory, various parameters regarding Particle Physics and ζ(2) revisited

by

Michele Nardelli

In this paper, we describe and analyze further new mathematical connections between some Ramanujan formulas concerning p(n) and τ(n), several equations concerning the SO(N) group, for N = 8192, in Bosonic String Theory, various parameters regarding Particle Physics and ζ(2). REVISITED VERSION 01.01.2021

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Further analysis and development of various equations regarding "Open String Tachyon in Supergravity solution" and "The Riemann zeta function and its zeros". New possible mathematical connections with some sectors of Number Theory and String Theory. III

by

Michele Nardelli

In this research thesis (Part III), we analyze various equations concerning "Open String Tachyon in Supergravity solution" and "The Riemann zeta function and its zeros". We describe the new possible mathematical connections with some sectors of Number Theory and String Theory

more ▾

... to the dilaton value .= and to the value of the following Rogers-Ramanujan continued fraction:From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** -J. Mourad and A. Sagnotti -arXiv:1612.08566v2 [hep-th] 22 Feb 2017 -March 27 M^2)/3*[1-(b/euler nu...

On the analysis of some equations concerning String Theory revisited: mathematical connections with some parameters of Particle Physics and some sectors of Number Theory and String Theory

by

Michele Nardelli

In this research thesis, we analyze some equations concerning Strings Theory. We describe the mathematical connections with some parameters of Particle Physics and some sectors of Number Theory. REVISITED VERSION - 01.01.2021

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Further analysis of some equations concerning "Type I vacua with brane supersymmetry breaking" revisited. Mathematical connections with some some sectors of Number Theory and String Theory. II

by

Michele Nardelli

In this research thesis (part II), we continue to analyze further equations concerning "Type I vacua with brane supersymmetry breaking". We describe the mathematical connections with some sectors of Number Theory. REVISITED VERSION - 01.01.2021

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Revisiting the classifications of 6d SCFTs and LSTs

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Renormalization group flow of coupled tensorial group field theories: Towards the Ising model on random lattices

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Vincent Lahoche, Dine Ousmane Samary, Antonio D. Pereira

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On the study of various equations concerning "Open String Tachyon in Supergravity solution" and "The Riemann zeta function and its zeros". New possible mathematical connections with some sectors of Number Theory and String Theory.

by

Michele Nardelli

In this research thesis, we analyze various equations concerning "Open String Tachyon in Supergravity solution" and "The Riemann zeta function and its zeros". We describe the new possible mathematical connections with some sectors of Number Theory and String Theory v2 31.12.2020

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On the Ramanujan's mathematics (Rogers-Ramanujan continued fractions, Hardy-Ramanujan number and Manuscript Book 1 formulae) applied to various sectors of String Theory revisited: Further new possible mathematical connections

by

Michele Nardelli

In this research thesis, we have analyzed and deepened further Ramanujan expressions (Rogers-Ramanujan continued fractions, Hardy-Ramanujan number and Manuscript Book 1 formulae) applied to some sectors of String Theory. We have therefore described other new possible mathematical connections. REVISITED VERSION 31.12.2020

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Curves and Particles: new possible mathematical connections with some sectors of Number Theory and String Theory

by

Michele Nardelli

In this research paper, we describe the new possible mathematical connections between curves and particles and some sectors of Number Theory and String Theory

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Further analysis and development of various equations regarding "The Riemann zeta function and its zeros". New possible mathematical connections with some sectors of String Theory. II

by

Michele Nardelli

In this research thesis (Part II), we analyze various equations concerning "The Riemann zeta function and its zeros". We describe the new possible mathematical connections with some sectors of String Theory Below the link of the part III of this work:
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On the analysis of several equations concerning Strings, Duality and Modular Forms revisited: mathematical connections with various parameters of Particle Physics, String Theory and some sectors of Number Theory

by

Michele Nardelli

In this research thesis, we analyze some equations concerning Strings, Duality and Modular Forms and we describe the mathematical connections with some parameters of Particle Physics, String Theory and some sectors of Number Theory.

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Generalized ghost-free propagators in nonlocal field theories

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Luca Buoninfante, Gaetano Lambiase, Yuichi Miyashita, Wataru Takebe, Masahide Yamaguchi

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Interferometer constraints on the inflationary field content

by

Laura Iacconi, Matteo Fasiello, Hooshyar Assadullahi, Emanuela Dimastrogiovanni, David Wands

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...her spins, AIP Conf. Proc. 767 (2005) 172 [hep-th/0405069]. N. Bouatta, G. Compere and A. Sagnotti, **An Introduction to free higher-spin fields**, in Higher spin gauge theories: Proceedings, 1st Solvay Workshop: Brussels, Belgium, 12-14 May, 200...

On the possible new mathematical connections between several topics of Geometry and Number Theory and some sectors of String Theory

by

Michele Nardelli

In this paper, we describe the possible new mathematical connections between several topics of Geometry and Number Theory and some sectors of String Theory

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Analyzing some equations concerning the "Inflation after the initial Climbing Phase": new possible mathematical connections with some parameters of Particle Physics and some sectors of String Theory and Number Theory revisited.

by

Michele Nardelli

In this research thesis, we analyze some equations concerning the topic-Inflation after the initial Climbing PhaseII and we describe the mathematical connections with some parameters of Particle Physics and some sectors of String Theory and Number Theory.

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On the analysis and development of several equations regarding "The Riemann zeta function and its zeros". Further new possible mathematical connections with some sectors of String Theory

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In this research thesis, we analyze various equations concerning "The Riemann zeta function and its zeros". We describe further new possible mathematical connections with some sectors of String Theory Below the link of the part II of this work:
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Further new possible mathematical connections between some Ramanujan expressions and various parameters of Particle Physics, String Theory, φ and ζ(2).

by

Michele Nardelli

In this paper we describe and analyze the mathematical connections between some Ramanujan expressions and various parameters of Particle Physics, String Theory, φ and ζ(2). REVISITED NEW VERSION 29.12.2020

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On the mathematical connections between some Ramanujan expressions, Modular j- Invariant and Class Invariant, various parameters of Particle Physics, String Theory, ϕ and ζ(2) revisited

by

Michele Nardelli

In this paper we describe and analyze the mathematical connections between some Ramanujan expressions, Modular j-Invariant and Class Invariant, various parameters of Particle Physics, String Theory, ϕ and ζ(2). v2 29.12.2020 UPDATED VERSION

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On various equations concerning the "Coupling Supersymmetric Yang-Mills Theories To Supergravity": mathematical connections with some sectors of Number Theory: Part IV

by

Michele Nardelli

In this research thesis (Part IV), we analyze some equations regarding the "Coupling Supersymmetric Yang-Mills Theories To Supergravity", describing the mathematical connections with some sectors of Number Theory

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On the development of various equations concerning the "Zeros of the function ζ(s) on short intervals of the critical line". New possible mathematical connections with some sectors of String Theory

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Michele Nardelli

In this research thesis, we analyze various equations concerning the "Zeros of the function ζ(s) on short intervals of the critical line". We describe the new possible mathematical connections with some sectors of String Theory

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On the new possible mathematical relationships between several Ramanujan formulas, equations concerning various topics of String Theory (String Cosmology), some parameters regarding Particle Physics, ζ(2), 8 and his multiples revisited

by

Michele Nardelli

In this paper, we describe and analyze further new relationships between some Ramanujan formulas, equations concerning some sectors of String Theory (String Cosmology), various parameters regarding Particle Physics, ζ(2), 8 and his multiples.

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On the Srinivasa Ramanujan Manuscripts revisited: new mathematical developments between various formulas, the Rogers-Ramanujan continued fractions, the mock theta functions and some sectors of Cosmology and String Theory. III

by

Michele Nardelli

In this research thesis, concerning the Srinivasa Ramanujan Manuscripts, we have analyzed various formulas, the Rogers-Ramanujan continued fractions, the mock theta functions and some sectors of Cosmology and Theoretical Physics. We have obtained further new possible mathematical connections and developments UPDATED VERSION 27.12.2020

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Quantum corrections for D-brane models with broken supersymmetry

by

Wilfried Buchmuller, Emilian Dudas, Yoshiyuki Tatsuta

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On the new possible mathematical connections between several equations concerning SUSY Breaking, various parameters concerning Particle Physics, some Ramanujan equations concerning p(n) and τ(n), ϕ and ζ(2) revisited

by

Michele Nardelli

In this revisited paper, we describe and analyze further new possible mathematical connections between several equations concerning SUSY breaking, various parameters concerning Particle Physics, some Ramanujan equations concerning p(n) and τ(n), ϕ and ζ(2). UPDATED VERSION 26.12.2020

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On several equations concerning the "Yang-Mills Theories with Local Supersymmetry" and the Supergravity: further new possible mathematical connections with some sectors of Number Theory: Part III

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In this research thesis (Part III), we analyze some equations regarding the "Yang-Mills Theories with Local Supersymmetry" and the Supergravity, We describe the mathematical connections with some sectors of Number Theory UPDATED VERSION 27.12.2020 Below the link of the part IV of the work: https://www.academia.edu/44788753/On_various_equations_concerning_the_Coupling_Supersymmetric_Yang_Mills_Theories_To_Supergravity_mathematical_connections_v

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Rodrigo Aros, Fabrizzio Bugini, Danilo E. Díaz

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...oop Divergences of Quantized Einstein-Maxwell Fields," Phys. Rev. D 10 (1974) 401. M. H. Goroff and **A. Sagnotti**, "Quantum Gravity At Two Loops," Phys. Lett. 160B (1985) 81. K. S. Stelle, "Renormalization of High...

Inflation and leptogenesis in high-scale supersymmetry

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Kunio Kaneta, Yann Mambrini, Keith A. Olive, Sarunas Verner

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Analyzing the new possible mathematical connections between some Ramanujan equations, Product Formulas, D5-branes and various parameters of Particle Physics, ϕ and ζ(2)

by

Michele Nardelli

In this paper we describe and analyze the mathematical connections between some Ramanujan expressions, Product Formulas, D5-branes and various parameters of Particle Physics, ϕ and ζ(2) UPDATED VERSION 25.12.2020

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On various equations concerning the "Yang-Mills Theories with Local Supersymmetry" and the Supergravity: mathematical connections with some sectors of Number Theory: Part II

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In this research thesis (Part II), we analyze some equations regarding the "Yang-Mills Theories with Local Supersymmetry" and the Supergravity and we describe the mathematical connections with some sectors of Number Theory

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On the new possible mathematical connections between several Ramanujan formulas, some equations concerning "Feynman Rules for massive particles of any spin", some sectors of String Theory and Number Theory

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In this research thesis, we describe and analyze the possible mathematical connections between several Ramanujan formulas, some equations concerning-Feynman Rules for massive particles of any spin, some sectors of String Theory and Number Theory. UPDATED VERSION 24.12.2020

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On various equations regarding the D-Branes and the Supergravity: mathematical connections with some sectors of Number Theory: Part I

by

Michele Nardelli

In this research thesis, we analyze some equations regarding the D-Branes and the Supergravity. We describe also the mathematical connections with some sectors of Number Theory

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On the new possible mathematical connections between several Ramanujan formulas, some equations concerning the Higher Spins Fields in String Theory and some sectors of Number Theory

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Michele Nardelli

In this paper, we describe and analyze the possible relationships between several Ramanujan formulas, some equations concerning the Higher Spins Fields in String Theory and some sectors of Number Theory. UPDATED VERSION 23.12.2020

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Further mathematical connections between some Ramanujan equations concerning $p(n)$ and $\tau(n)$, several equations concerning Mock modularity, JT Gravity, various parameters concerning Particle Physics, String Theory, ϕ and $\zeta(2)$

by

Michele Nardelli

In this paper, we describe and analyze further new mathematical connections between some Ramanujan formulas concerning $p(n)$ and $\tau(n)$, several equations concerning Mock modularity, JT Gravity, various parameters concerning Particle Physics, String Theory, ϕ and $\zeta(2)$. UPDATED VERSION - 23.12.2020

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On the possible mathematical connections between some Ramanujan expressions, Modular j-Invariant, various parameters of Particle Physics, ϕ and $\zeta(2)$

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In this paper we describe and analyze the mathematical connections between some Ramanujan expressions, Modular j-Invariant, various parameters of Particle Physics, ϕ and $\zeta(2)$. UPDATED VERSION 23.12.2020

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On the new mathematical connections between some Ramanujan formulas concerning $p(n)$ and $\tau(n)$, several equations concerning Mock Modularity in M- Theory duality, various parameters concerning Particle Physics, ϕ and $\zeta(2)$

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In this paper we describe and analyze new mathematical connections between some Ramanujan formulas concerning $p(n)$ and $\tau(n)$, several equations concerning Mock Modularity in M-Theory duality, various parameters concerning Particle Physics, ϕ and $\zeta(2)$. UPDATED VERSION 23.12.2020

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On various equations regarding the f(R)-f(T) gravity and the Supergravity: mathematical connections with some sectors of Number Theory

by

Michele Nardelli

In this research thesis, we analyze some equations regarding the f(R)-f(T) gravity and the Supergravity. We describe also the mathematical connections with some sectors of Number Theory

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 80 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On the possible mathematical connections between some Rogers-Ramanujan continued fractions, Ramanujan equations concerning $p(n)$ and $\tau(n)$, various parameters and sectors concerning Particle Physics, String Theory, ϕ and $\zeta(2)$

by

Michele Nardelli

In this paper, we describe and analyze further new mathematical connections between some Rogers-Ramanujan continued fractions, Ramanujan equations concerning $p(n)$ and $\tau(n)$, various parameters and sectors concerning Particle Physics, String Theory, ϕ and $\zeta(2)$. UPDATED VERSION 22.12.2020

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On the new mathematical connections between some Ramanujan formulas and various parameters of Particle Physics, String Theory, Planck units values, ϕ and $\zeta(2)$

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In this paper, we describe and analyze new mathematical connections between some Ramanujan formulas and various parameters of Particle Physics, String Theory, Planck units values, ϕ and $\zeta(2)$. v2 UPDATED VERSION 22.12.2020

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On asymptotic symmetries in higher dimensions for any spin

by

Andrea Campoleoni

We investigate asymptotic symmetries in flat backgrounds of dimension higher than or equal to four. For spin two we provide the counterpart of the extended BMS transformations found by Campiglia and Laddha in four-dimensional Minkowski space. We then identify higher-spin supertranslations and generalised superrotations in any dimension. These symmetries are in one-to-one correspondence with spins partially-massless representations on the celestial sphere, with supertranslations corresponding in particular to the representations with maximal depth. We discuss the definition of the corresponding asymptotic charges and we exploit the supertranslational ones in order to prove the link with Weinberg's soft theorem in even dimensions.

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On the new possible mathematical connections between some Ramanujan partition formulas and various parameters concerning the number of transverse light-cone directions in the bosonic string, ϕ and $\zeta(2)$

by

Michele Nardelli

In this paper we describe and analyze new possible mathematical connections between some Ramanujan partition formulas and various parameters concerning the number of transverse light-cone directions in the bosonic string, ϕ and $\zeta(2)$.

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On the possible mathematical connections between some Ramanujan and Rademacher formulas, various parameters of Particle Physics, String Theory, ϕ and $\zeta(2)$

by

Michele Nardelli

In this paper we describe and analyze new possible mathematical connections between some Ramanujan and Rademacher formulas, various parameters of Particle Physics, String Theory, ϕ and $\zeta(2)$

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On various equations regarding the Symmetries of N = (1, 0) Supergravity backgrounds in six dimensions, Supersymmetric field theory, Kerr metric and f(R)-gravity. Possible new mathematical connections with some sectors of Number Theory

by

Michele Nardelli

In this research thesis, we analyze some equations regarding the Symmetries of N = (1, 0) Supergravity backgrounds in six dimensions, Supersymmetric field theory, Kerr metric and f(R)-gravity. We describe new possible mathematical connections with some sectors of Number Theory and String Theory

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On various equations regarding the Symmetries of N = (1, 0) Supergravity backgrounds in six dimensions, Supersymmetric field theory, Kerr metric and f(R)-gravity. Possible new mathematical connections with some sectors of Number Theory

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In this research thesis, we analyze some equations regarding the Symmetries of N = (1, 0) Supergravity backgrounds in six dimensions, Supersymmetric field theory, Kerr metric and f(R)-gravity. Possible new mathematical connections with some sectors of Number Theory

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D-branes and creation of strings

by

Klebanov, Igor R.

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On the new possible relationships between several Ramanujan formulas, equations concerning some sectors of String Theory (String Cosmology), various parameters regarding Particle Physics and Number Theory revisited

by

Michele Nardelli

In this paper (part II), we describe and analyze new possible relationships between some Ramanujan formulas, equations concerning some sectors of String Theory (String Cosmology), various parameters regarding Particle Physics and Number Theory REVISITED AND UPDATED VERSION 21.12.2020

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...native representations: 28 Series representations: 29 From UCB-PTH-86/27 - LBL-22076 - ROM2F-86/015 **Group Theory from "Quarks" at the Ends of Strings** Neil Marcus and Augusto Sagnotti 30 From (15) , for 31 1/(exp(2Pi)*product (1-exp(2Pi)^n)^24 for n ...

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On the possible relationships between several Ramanujan formulas, some equations concerning the Lepton and Quark Masses and some sectors of Number Theory revisited

by

Michele Nardelli

In this paper, we describe and analyze the possible relationships between several Ramanujan formulas, some equations concerning the Lepton and Quark Masses and some sectors of Number Theory. REVISITED AND DEFINITIVE VERSION 21.12.2020

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On various equations concerning the "Theory of Heat Radiation" and "Lectures on Gas Theory". New mathematical connections with some sectors of String Theory and Number Theory. II

by

Michele Nardelli

In this research thesis (part II), we analyze some equations concerning the "Theory of Heat Radiation" and "Lectures on Gas Theory". We describe the new possible mathematical connections with some sectors of Number Theory and String Theory.

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...117352243 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On the mathematical connections between some Ramanujan formulas concerning p(n) and τ(n), several equations concerning Mock Modularity in M- Theory duality, various parameters concerning Particle Physics, ϕ and $\zeta(2)$ revisited.

by

Michele Nardelli

In this paper we describe and analyze new mathematical connections between some Ramanujan formulas concerning p(n) and τ(n), several equations concerning Mock Modularity in M-Theory duality, various parameters concerning Particle Physics, ϕ and $\zeta(2)$. REVISITED AND DEFINITIVE VERSION 20.12.2020 Below the link of the continuation of this work:

https://www.academia.edu/44760659/Further_mathematical_connections_between_some_Ramanujan_equations_concerning_p_n_and_%CF%84_n_several_equations_conce

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On various equations concerning the "Theory of Heat Radiation". New mathematical connections with some sectors of String Theory and Number Theory

by

Michele Nardelli

In this research thesis, we analyze some equations concerning the "Theory of Heat Radiation". We describe the new possible mathematical connections with some sectors of Number Theory and String Theory. Below the link of the part II of this work:

https://www.academia.edu/44748000/On_various_equations_concerning_the_Theory_of_Heat_Radiation_and_Lectures_on_Gas_Theory_New_mathematical_connections_wit

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On the mathematical connections between some Ramanujan Class Invariants, various parameters of Particle Physics, String Theory, ϕ and $\zeta(2)$ revisited

by

Michele Nardelli

In this paper we describe and analyze the mathematical connections between some Ramanujan Class Invariants, various parameters of Particle Physics, String Theory, ϕ and $\zeta(2)$. REVISITED AND DEFINITIVE VERSION 19.12.2020

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Further mathematical connections between some Ramanujan formulas ϕ, $\zeta(2)$ and various topics and parameters of LQG, Open Strings and Particle Physics revisited. VI

by

Michele Nardelli

In this paper we continue to describe and analyze some Ramanujan expressions. Furthermore, we have obtained several mathematical connections with ϕ, $\zeta(2)$ and various topics and parameters of LQG, Open Strings and Particle Physics. REVISITED AND DEFINITIVE VERSION 19.12.2020

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HIGHLY CITED

Point-like instantons and the heterotic string

by

Aspinwall, Paul S.

This mention was found in a paper hosted outside of Academia.edu

...Kodaira Fibres on Rational Elliptic Surfaces, Math. Z. 205 (1990) 1-47. M. Bianchi and A. Sagnotti, **Twist symmetry and open string Wilson lines**, Nucl. Phys. B361 (1991) 519-538. M. Bershadsky, V. Sadov, and C. Vafa, D-Strings on D-Manifolds, N...

Mathematical connections between various Ramanujan's equations, values of mass and electric charges of fundamental particles and physical data of Kerr Supermassive Black Hole M87 revisited

by

Michele Nardelli

In this research thesis, we have described some mathematical connections between various Ramanujan's equations, values of mass and electric charges of fundamental particles and physical data of Kerr Supermassive Black Hole M87. We have obtained some very interesting results concerning a possible mathematical unification between some sectors of particle and string physics and some sectors of black hole physics, through the use and development of some formulas discovered by S. Ramanujan REVISITED AND DEFINITIVE VERSION 18.12.2020

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...7352243 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 131 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On the mathematical connections between some Ramanujan formulas, ϕ, $\zeta(2)$ and various topics and parameters of Open Strings and Particle Physics revisited.

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan expressions. We have obtained several mathematical connections with ϕ , $\zeta(2)$ and various topics and parameters of Open Strings and Particle Physics. REVISITED AND DEFINITIVE VERSION - 18.12.2020

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...7352243 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 61 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some Ramanujan formulas revisited: mathematical connections with ϕ and several parameters of Quantum Geometry, String Theory and Particle Physics. II

by

Michele Nardelli

In this paper (Part II), we have described and analyzed further Ramanujan expressions. We have obtained several mathematical connections with and various parameters of Quantum Geometry, String Theory and Particle Physics. REVISITED AND DEFINITIVE VERSION 18.12.2020

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...7352243 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 89 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On various equations concerning "A Dynamical Theory of the Electromagnetic Field". New possible mathematical connections with some sectors of Number Theory and String Theory.

by

Michele Nardelli

In this research thesis, we analyze some equations concerning "A Dynamical Theory of the Electromagnetic Field". We describe new possible mathematical connections with some sectors of Number Theory and String Theory.

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...117352243 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

From Maxwell's Equations to the String Theory and Particle Physics revisited: New mathematical connections with some sectors of Number Theory

by

Michele Nardelli

In this research thesis, we have described some new mathematical connections between Maxwell's Equations, some sectors of the String Theory and Particle Physics, and some sectors of Number Theory, precisely various Ramanujan's expressions and equations. REVISITED AND DEFINITIVE VERSION 17.12.2020

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...117352243 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: 227...

On some Ramanujan formulas revisited: mathematical connections with ϕ and several parameters of Quantum Geometry of Space, String Theory and Particle Physics (f0(1710) scalar meson)

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan expressions. We have obtained several mathematical connections with ϕ and various parameters of Quantum Geometry of Space, String Theory and Particle Physics. REVISITED AND DEFINITIVE VERSION 17.12.2020

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...7352243 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 57 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

Analyzing some Ramanujan equations revisited: mathematical connections with Prime Numbers Theory, ϕ, $\zeta(2)$ and various parameters of Particle Physics. II

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan equations. We have obtained several mathematical connections between Prime Numbers Theory, ϕ, $\zeta(2)$ and various parameters of Particle Physics. REVISITED AND DEFINITIVE VERSION - 17.12.2020

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some Ramanujan equations revisited: various mathematical connections with ϕ, $\zeta(2)$, and some Physical parameters

by

Michele Nardelli

In this paper we have described several Ramanujan equations and obtained various mathematical connections with ϕ, $\zeta(2)$, and some Physical parameters REVISITED AND DEFINITIVE VERSION 16.12.2020

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 87 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

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Compactifications of F-theory on Calabi-Yau threefolds. (I)

by

Morrison, David R., Vafa, Cumrun

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...Algebraic Geom. 4 (1995), 255. M.B. Green, J.H. Schwarz and P.C. West, Nucl. Phys. B254 (1985) 327; **A. Sagnotti**, Phys. Lett. B294 (1992) 196; J. Erler, J. Math. Phys., 35 (1994) 1819 ; J.H. Schwarz, hep- th/9512...

On some Ramanujan equations revisited: new possible mathematical connections with ϕ, $\zeta(2)$, Hausdorff dimension values, several equations of D- branes, Strings and Higher-Spins

by

Michele Nardelli

In this paper we have described some Ramanujan equations and obtained new possible mathematical connections with ϕ, $\zeta(2)$, Hausdorff dimension values, several equations of D-branes, Strings and Higher-Spins REVISITED AND DEFINITIVE VERSION 16.12.2020

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some Ramanujan equations: new possible mathematical connections with ϕ, $\zeta(2)$, Hausdorff dimension values, several equations of Teleparallel Cosmology and Higher-Spin Interactions in String Theory

by

Michele Nardelli

In this paper we have described some Ramanujan equations and obtained new possible mathematical connections with ϕ, $\zeta(2)$, Hausdorff dimension values, several equations of Teleparallel Cosmology and Higher-Spin Interactions in String Theory REVISITED AND DEFINITIVE VERSION 16.12.2020

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...his expression is to be computed at $\xi = 0$, pij = pi − pj and the notation is as in eq. (3.43) From: **String Lessons for Higher-Spin Interactions** A. Sagnotti and M. Taronna - arXiv:1006.5242v2 [hep-th] 31 Aug 2010 We have that: 42 43 44 We have:...

On various equations concerning the annulus amplitudes of (p, q) and ZZ Branes in minimal string theory. New possible mathematical connections with some sectors of Number Theory and String Theory.

by

Michele Nardelli

In this research thesis, we analyze some equations concerning the annulus amplitudes of (p, q) and ZZ Branes in minimal string theory. We describe the new possible mathematical connections with some sectors of Number Theory and String Theory.

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some Ramanujan expressions and Partition formulas revisited: mathematical connections with ϕ, $\zeta(2)$, various Fractal Hausdorff Dimensions values and several equations of Teleparallel Cosmology. III

by

Michele Nardelli

In this paper we have described some Ramanujan expressions and Partition formulas. We have obtained mathematical connections with ϕ, $\zeta(2)$, various Fractal Hausdorff Dimensions values and several equations of Teleparallel Cosmology REVISITED AND DEFINITIVE VERSION 15.12.2020

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 91 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On several equations concerning the "Modular Invariance, Finiteness, and Misaligned Supersymmetry". New possible mathematical connections with some sectors of Number Theory and String Theory.

by

Michele Nardelli

In this research thesis, we analyze some equations concerning the "Modular Invariance, Finiteness, and Misaligned Supersymmetry". New possible mathematical connections with some sectors of Number Theory and String Theory.

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 73 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

Analyzing several Ramanujan Partition Congruences revisited: mathematical connections with ϕ, $\zeta(2)$ and various Fractal Hausdorff Dimensions values. II

by

Michele Nardelli

In this paper we have described some Ramanujan Partition Congruences, and obtained several mathematical connections with ϕ, $\zeta(2)$ and various Fractal Hausdorff Dimensions values REVISITED AND DEFINITIVE VERSION 15.12.2020 Below the part III of this work: https://www.academia.edu/44710540/On_some_Ramanujan_expressions_and_Partition_formulas_revisited_mathematical_connections_with_%CF%86_%CE%B6_2_various_F

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 53 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some Asymptotic Formulas and Ramanujan Identities revisited: mathematical connections with ϕ, $\zeta(2)$ and various Fractal Hausdorff Dimensions values. I

by

Michele Nardelli

In this paper we have described some Asymptotic Formulas and Ramanujan Identities, and obtained several mathematical connections with ϕ, $\zeta(2)$ and various Fractal Hausdorff Dimensions values REVISITED AND DEFINITIVE VERSION 14.12.2020

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: 91 ...

On some Ramanujan equations: mathematical connections with various formulas concerning some topics of Cosmology and Black Holes/Wormholes Physics. VII

by

Michele Nardelli

In this paper we have described several Ramanujan's formulas and obtained some mathematical connections with various equations concerning different arguments of Cosmology and Black Holes/Wormholes Physics. REVISITED AND DEFINITIVE VERSION 14.12.2020

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 80 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On several equations concerning the heterotic SO(16)xSO(16)-theory and of anti-Dp-branes on Op-planes. New possible mathematical connections with some sectors of Number Theory and String Theory. II

by

Michele Nardelli

In this research thesis (part II), we analyze some equations concerning the heterotic SO(16)xSO(16)-theory and of anti-Dp-branes on Op-planes. We describe new possible mathematical connections with some sectors of Number Theory and String Theory

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some Ramanujan expressions: mathematical connections with various equations concerning some sectors of Cosmology and Black Holes/Wormholes Physics. VI

by

Michele Nardelli

In this paper we have described several Ramanujan's expressions and obtained some mathematical connections with various equations concerning different sectors of Cosmology and Black Holes/Wormholes Physics. REVISITED AND DEFINITIVE VERSION 13.12.2020

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 81 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some Ramanujan's formulas: mathematical connections with several equations inherent some topics of String Cosmology and Black Holes Physics. V

by

Michele Nardelli

In this paper we have described several Ramanujan's equations and obtained some mathematical connections with various formulas concerning different topics of String Cosmology and Black Holes Physics.(update version 23/02/20) v3 - REVISITED AND DEFINITIVE VERSION 13.12.2020

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On some Ramanujan's equations: mathematical connections with various formulas concerning some sectors of Particle Physics and Black Hole/Wormhole Physics. IV

by

Michele Nardelli

In this paper we have described the mathematical connections between various Ramanujan's equations and some expressions of various topics REVISITED AND DEFINITIVE VERSION 13.12.2020

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 57 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On several equations concerning the Hardy-Ramanujan- Rademacher formula applied to the partition functions of the heterotic SO(16)xSO(16)-theory and of anti-Dp-branes on Op-planes. New possible mathematical connections with some sectors of Number Theory and String Theory.

by

Michele Nardelli

In this research thesis, we analyze some equations concerning the Hardy-Ramanujan-Rademacher formula applied to the partition functions of the heterotic SO(16)xSO(16)-theory and of anti-Dp-branes on Op-planes. We describe new possible mathematical connections with some sectors of Number Theory and String Theory Below the link of the Part II of this work:

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

Holography beyond conformal invariance and AdS isometry?

by

Barvinsky, A. O.

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...lds in the AdS background, Phys. Lett. B523 (2001) 338, hep-th/0109067; A. Sagnotti and M. Tsulaia, **On higher spins and the tensionless limit of string theory**, Nucl. Phys. B682 (2004) 83, hep-th/0311257. S. S. Gubser and I. Mitra, Double trace operators and ...

On some Ramanujan's equations: mathematical connections with various equations concerning some sectors of Particle Physics and Black Hole/Wormhole Physics. III

by

Michele Nardelli

In this paper we have described the mathematical connections between various Ramanujan's equations (class invariants) and some expressions of various topics of Particle Physics and Black Hole/Wormhole Physics REVISITED AND DEFINITIVE VERSION 12.12.2020 Below, the link of the parts IV and V of this work:

https://www.academia.edu/44694477/On_some_Ramanujans_equations_mathematical_connections_with_various_formulas_concerning_some_sectors_of_Particle_Physics_
https://www.academia.edu/44694778/On_some_Ramanujans_formulas_mathematical_connections_with_several_equations_inherent_some_topics_of_String_Cosmology_an

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 87 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On various equations concerning the "Entropy Function for Heterotic Black Holes". Further possible mathematical connections with some sectors of Number Theory and String Theory

by

Michele Nardelli

In this research thesis, we analyze some equations concerning the "Entropy Function for Heterotic Black Holes". We describe further possible mathematical connections with some sectors of Number Theory and String Theory Below the link of the paper connected to this work:

https://www.academia.edu/44693409/On_several_equations_concerning_the_Hardy_Ramanujan_Rademacher_formula_applied_to_the_partition_functions_of_the_heterotic_S

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some incomplete elliptic integrals and Black Holes-Wormholes formulas revisited: new possible mathematical connections with ϕ, $\zeta(2)$ and various parameters of Particle Physics. III

by

Michele Nardelli

In this paper we have described some Ramanujan incomplete elliptic integrals and Black Holes-Wormholes formulas. Furthermore, we describe new possible mathematical connections with ϕ, $\zeta(2)$, and various parameters of Particle Physics REVISITED AND DEFINITIVE VERSION 11.12.2020

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 130 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some Ramanujan equations concerning the continued fractions revisited. Further possible mathematical connections with some parameters of Particle Physics and Cosmology V

by

Michele Nardelli

In this research thesis, we have analyzed and deepened some equations concerning the Ramanujan continued fractions. Further possible mathematical connections with some parameters of Particle Physics and Cosmology.

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 88 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some equations concerning the Extremal Black Brane Geometries and the Black Hole Microstates. Possible mathematical connections with some sectors of Number Theory and String Theory

by

Michele Nardelli

In this research thesis, we analyze some equations concerning the Extremal Black Brane Geometries and the Black Hole Microstates. We describe also the possible mathematical connections with some sectors of Number Theory and String Theory

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 80 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On the various Ramanujan equations (Rogers-Ramanujan continued fractions) linked to some sectors of String Theory and Particle Physics revisited: Further new possible mathematical connections VI

by

Michele Nardelli

In this research thesis, we have analyzed and deepened further Ramanujan expressions applied to some sectors of String Theory and Particle Physics. We have therefore described other new possible mathematical connections. REVISITED AND DEFINITIVE VERSION 10.12.2020

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From 104 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On the analysis of some equations concerning the "Minimal Immersions of Surfaces in Euclidean Spheres". Possible mathematical connections with some sectors of String Theory

by

Michele Nardelli

In this research thesis, we analyze some equations concerning the "Minimal Immersions of Surfaces in Euclidean Spheres". We describe the possible mathematical connections with some sectors of String Theory.less ▴

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 79 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On various Ramanujan formulas applied to some sectors of String Theory (open strings) and Particle Physics revisited: Further new possible mathematical connections IV

by

Michele Nardelli

In this revisited research thesis, we have analyzed and deepened various Ramanujan expressions applied to some sectors of String Theory (open strings) and Particle Physics. We have therefore described further new possible mathematical connections. REVISITED AND DEFINITIVE VERSION 10.12.2020

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On several Ramanujan equations applied to some sectors of String Theory, Supersymmetry Breaking and Particle Physics revisited: new possible mathematical connections

by

Michele Nardelli

In this research thesis, we have analyzed and deepened several Ramanujan equations applied to some sectors of String Theory, Supersymmetry Breaking and Particle Physics. We describe also new possible mathematical connections v2 UPDATED VERSION 09.12.2020

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 73 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some Ramanujan functions applied to various sectors of String Theory and Particle Physics revisited: new possible mathematical connections II

by

Michele Nardelli

In this research thesis, we have analyzed and deepened various Ramanujan functions applied to some sectors of String Theory and Particle Physics. We have therefore described further new possible mathematical connections. REVISITED AND DEFINITIVE VERSION 09.12.2020

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 73 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

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D-brane probes, RR tadpole cancellation and K-theory charge

by

Uranga, Angel M.

This mention was found in a paper hosted outside of Academia.edu

... Horava, "Strings on world-sheet orbifolds", Nucl. Phys. B327 (1989) 461. M. Bianchi, A. Sagnotti, "**On the systematics of open string theories**", Phys. Lett. B247 (1990) 517; "Twist symmetry and open string Wilson lines", Nucl. Phys. B361 (199...

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Small instantons in string theory

by

Witten, Edward

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...binatorics of Boundaries In String Theory," Phys. Rev. D50 (1994) 6041. N. Marcus and A. Sagnotti, "**Tree Level Constraints On Gauge Groups For Type-I Superstrings**," Phys. Lett. 119B (1982) 97. E. Witten, "Bound States Of Strings And p-Branes," hep-th/9510135. E....

On the analysis of some elliptic solutions of a nonlinear partial differential equation. Possible mathematical connections with some sectors of String Theory. II

by

Michele Nardelli

In this research thesis (part II), we analyze some elliptic solutions of a nonlinear partial differential equation. We describe also the possible mathematical connections with various sectors of String Theory Below the link of a paper connected with this topic: https://www.academia.edu/44674274/On_the_analysis_of_some_equations_concerning_the_Minimal_Immersions_of_Surfaces_in_Euclidean_Spheres_Possible_mathematica

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On various Ramanujan formulas applied to some sectors of String Theory and Particle Physics revisited: Further new possible mathematical connections III

by

Michele Nardelli

In this research thesis, we have analyzed and deepened various Ramanujan expressions applied to some sectors of String Theory and Particle Physics. We have therefore described further new possible mathematical connections. REVISITED AND DEFINITIVE VERSION 09.12.2020

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 80 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

HIGHLY CITED

Closed superstring field theory and its applications

by

Corinne de Lacroix, Harold Erbin, Sitender Pratap Kashyap, Ashoke Sen, Mritunjay Verma

We review recent developments in the construction of heterotic and type II string field theories and their various applications. These include systematic procedures for determining the shifts in the vacuum expectation values of fields under quantum corrections, computing renormalized masses and S-matrix of the theory around the shifted vacuum and a proof of unitarity of the S-matrix. The S-matrix computed this way is free from all divergences when there are more than 4 noncompact space−time dimensions, but suffers from the usual infrared divergences when the number of noncompact space−time dimensions is 4 or less.

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On various Ramanujan formulas applied to some sectors of String Theory and Particle Physics: Further new possible mathematical connections

by

Michele Nardelli

In this research thesis, we have analyzed and deepened various Ramanujan expressions applied to some sectors of String Theory and Particle Physics. We have therefore described further new possible mathematical connections. REVISITED AND DEFINITIVE VERSION 08.12.2020 Below the link of the part II of this work: https://www.academia.edu/44669972/On_some_Ramanujan_functions_applied_to_various_sectors_of_String_Theory_and_Particle_Physics_revisited_new_possible_mathema

more ▾

...rnate form: Alternative representations: Series representations: 50 Integral representations: From: **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad a and A. Sagnotti b - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have that: that are two ...

Corfu 05 lectures - part I: Strings on curved backgrounds

by

Orlando, D, Petropoulos, Pm

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On some equations concerning the planar curves under the Euclidean and affine groups. Possible mathematical connections with some sectors of String Theory

by

Michele Nardelli

In this research thesis, we describe some equations concerning the planar curves under the Euclidean and affine groups. We describe also the possible mathematical connections with some sectors of String Theory

more ▾

...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

Topology and geometry of six-dimensional (1, 0) supergravity black hole horizons

by

Akyol, M, Papadopoulos, G

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...ty," Nucl. Phys. B 505 (1997) 497 [arXiv:hep-th/9703075]. S. Ferrara, F. Riccioni and A. Sagnotti, "**Tensor and vector multiplets in six- dimensional supergravity**," Nucl. Phys. B 519 (1998) 115 [arXiv:hep-th/9711059]. F. Riccioni, "All couplings of minimal six-d...

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Brane inflation

by

Dvali, Gia, Tye, S.-H.Henry

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On some new possible mathematical connections between some equations of the Ramanujan's manuscripts, the Rogers-Ramanujan continued fractions and some sectors of Particle Physics, String Theory and D-branes

by

Michele Nardelli

In this research thesis, we have described some revisited new mathematical connections between some equations of the Ramanujan's manuscripts, the Rogers-Ramanujan continued fractions and some sectors of Particle Physics (physical parameters of mesons and dilatons, in particular the values of the masses), String Theory and D-branes.

UPDATED AND DEFINITIVE VERSION 07.12.2020

more ▾

...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 158 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

Inflation in R2 supergravity with non-minimal superpotentials

by

Diamandis, G.A., Georgalas, B.C., Kaskavelis, K., Kouroumalou, P., Lahanas, A.B., Pavlopoulos, G.

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On the analysis of some second order differential equations of parabolic type (Heat Equation). Possible mathematical connections resulting from development of some equations concerning the "Climbing Scalars in String Theory". IV

by

Michele Nardelli

In this research thesis (part IV), we describe the analysis of some second order differential equations of parabolic type (Heat Equation). We describe the possible mathematical connections resulting from development of some equations concerning the "Climbing Scalars in String Theory"

more ▾

...1 result that is a very good approximation to the value of the golden ratio 1.618033988749... From: **On tadpoles and vacuum redefinitions in String Theory** E. Dudas, M. Nicolosi , G. Pradisi and A. Sagnotti - arXiv:hep-th/0410101v4 13 Dec 2004 We have: fo...

HIGHLY CITED

Just enough inflation: power spectrum modifications at large scales

by

Cicoli, Michele, Downes, Sean, Dutta, Bhaskar, Pedro, Francisco G., Westphal, Alexander

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On some equations concerning the String Theory, the Supersymmetry breaking: Mathematical connections with some geometrical topics and some sectors of Number Theory

by

Michele Nardelli

In this paper, we describe some equations concerning the String Theory, the Supersymmetry breaking and the mathematical connections with some geometrical topics and some sectors of Number Theory UPDATED VERSION 06.12.2020

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: 87 ...

Classification and a toolbox for orientifold models

by

Hammou, A.B., Anastasopoulos, P.

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...an be extended to more general orientifold groups G 1 + ΩG 2 [2] [3] [4] [5] [6] [7] [8] [9] [10] 7 **A. Sagnotti**, arXiv:hep-th/0208020 G. Pradisi and A. Sagnotti, Phys. Lett. B 216 (1989) 59. P. Horava, Nucl. Phy...

On the study of a fundamental second order differential equation of parabolic type (Heat Equation). Possible mathematical connections resulting from development of an equation concerning the "Climbing Scalars in String Theory". III

by

Michele Nardelli

In this research thesis, (part III) we describe the study of a fundamental second order differential equation of parabolic type (Heat Equation). We describe the possible mathematical connections resulting from development of an equation concerning the "Climbing Scalars in String Theory" Below the link of the part IV of this work: https://www.academia.edu/44653167/On_the_analysis_of_some_second_order_differential_equations_of_parabolic_type_Heat_Equation_Possible_mathematical_connection

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

Recent trends in superstring phenomenology

by

Bianchi, Massimo

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On the Ramanujan's mathematics (Rogers-Ramanujan continued fractions, Hardy-Ramanujan number and Manuscript Book 1 formulae) applied to various sectors of String Theory revisited: Further new possible mathematical connections XIII

by

Michele Nardelli

In this research thesis, we have analyzed and deepened further Ramanujan expressions (Rogers-Ramanujan continued fractions, Hardy-Ramanujan number and Manuscript Book 1 formulae) applied to some sectors of String Theory. We have therefore described other new possible mathematical connections. REVISITED AND DEFINITIVE VERSION 05.12.2020

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...alculated as a type of Higgs boson: 125 GeV for T = 0 and to the Higgs boson mass 125.18 GeV 9 From **Two−Field Born−Infeld with Diverse Dualities** S. Ferrara, A. Sagnotti and A. Yeranyan arXiv:1602.04566v3 [hep-th] 8 Jul 2016 f = 5, F = 8, F = 1...

ANOMALIES, RG-FLOWS AND OPEN/CLOSED STRING DUALITY

by

BIANCHI, MASSIMO, MORALES, JOSE F.

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On the develop of a fundamental second order differential equation of parabolic type (Heat Equation). Possible mathematical connections with some equations and topics concerning the pre-inflationary climbing phase and SUSY breaking scenarios II

by

Michele Nardelli

In this research thesis, we describe the develop of a fundamental second order differential equation of parabolic type (Heat Equation) and the possible mathematical connections with some equations and topics concerning the pre-inflationary climbing phase and SUSY breaking scenarios

more ▾

...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On the develop of a fundamental second order differential equation of parabolic type (Heat Equation). Possible mathematical connections with some equations and topics concerning the String Theory and the Cosmology

by

Michele Nardelli

In this research thesis, we describe the develop of a fundamental second order differential equation of parabolic type (Heat Equation) and the possible mathematical connections with some equations and topics concerning the String Theory and the Cosmology. Below the link of the part II of this paper: https://www.academia.edu/44642466/On_the_develop_of_a_fundamental_second_order_differential_equation_of_parabolic_type_Heat_Equation_Possible_mathematical_con

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...- Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 45 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

On the new possible mathematical connections between some Cosmological Models and some equations concerning the quantum theory and M-Theory in function of π and ϕ

by

Michele Nardelli

In this paper, we have obtained some interesting new mathematical connections. We have showed that the equation concerning the Planck's law of the Energy Distribution in the Normal Spectrum and some equations concerning the heterotic string action and M-theory, can be linked in function of π and ϕ that are transcendental and irrational numbers respectively and that are basic numbers of many phenomena in Nature (general relativity and quantum theory) REVISITED AND DEFINITIVE VERSION 04.12.2020

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On an equation of Nilpotent Supergravity: mathematical connections with some sectors of String Theory, the Planck units and the Number Theory

by

Michele Nardelli

In this paper, we develop an equation of Nilpotent Supergravity. We describe the possible mathematical connections with some sectors of String Theory, the Planck units and Number Theory

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 26 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some second order differential equations of parabolic type (Heat Equation). Possible mathematical connections with some equations and topics concerning the String Theory and the Cosmology

by

Michele Nardelli

In this research thesis, we develop some second order differential equations of parabolic type (Heat Equation). We describe the possible mathematical connections with some equations and topics concerning the String Theory and the Cosmology.

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...- Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 57 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

String theory: exact solutions, marginal deformations and hyperbolic spaces

by

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...anes and holography, JHEP 10, 004 (1998), hep-th/9808149. I. Antoniadis, C. Bachas and A. Sagnotti, **GAUGED SUPERGRAVITY VACUA IN STRING THEORY**, Phys. Lett. B235, 255 (1990). [BBH + 00] N. Berkovits, M. Bershadsky, T. Hauer, S. Zhukov and B. Z...

On some second order differential equations of parabolic type (Heat Equation). Possible mathematical connections with some equations and topics concerning the String Theory and Climbing Scalars. VI

by

Michele Nardelli

In this research thesis (part VI), we develop some second order differential equations of parabolic type (Heat Equation). We describe the possible mathematical connections with some equations and topics concerning the String Theory and Climbing Scalars.

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some formulas concerning the Ramanujan's Master Theorem: new possible mathematical developments and mathematical connections with the mass value of candidate "glueball" f0(1710) meson, Dark Photons and the Black Hole entropies. II

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting new possible mathematical results concerning some equations of the Ramanujan's Master Theorem. Furthermore, we have described new possible mathematical connections with the mass value of candidate "glueball" f0(1710) meson, Dark Photons and the Black Hole entropies. UPDATED AND REVISITED VERSION 02.12.2020

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Bound states of strings and p-branes

by

Witten, Edward

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...Green, "Space-Time Duality And Dirichlet String Theory," Phys. Lett. B266 (1991) 325. A. Sagnotti, "**Open Strings And Their Symmetry Groups**," in Cargese '87, "Nonper-turbative Quantum Field Theory," ed. G. Mack et. al. (Pergamon Press, 19...

On some completely elliptic linear equations to the partial derivatives. Possible mathematical connections with some equations and topics concerning the Supergravity and Pre-inflationary Clues. V

by

Michele Nardelli

In this research thesis (part V), we develop some completely elliptic linear equations to the partial derivatives. We describe the possible mathematical connections with some equations and topics concerning the Supergravity and Pre-inflationary Clues. Below the link of the part VI of this paper

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ON SOME APPLICATIONS OF THE VOLONTERIO'S TRANSFORM: SERIES DEVELOPMENT OF THE Nk+M TYPE AND MATHEMATICAL CONNECTIONS WITH SOME SECTORS OF STRING THEORY

by

Michele Nardelli

The transform V of a discrete function y (k) is an analytic function of a real (or complex) variable through which the transition from the world of discrete or finite mathematics to the world of differential mathematics is possible. The transform V arises from the idea of putting the set of analytic functions in one-to-one correspondence with the set of discrete functions through a "functional" representation of the coefficient c_k of the MacLaurin / Taylor series expansion transformed into a discrete function y (k). The transform V provides an overview superior to what a generating function can provide. The canonical transform is distinguished from the generalized one in that its existence is based on continuous and infinitely differentiable functions V (t) for t = 0 while the generalized one is based on a continuous and infinitely differentiable function in t = x (where for x = 0 we obviously obtain the canonical transform). The transformation and anti-transformation properties of the transform V are independent of whether the canonical or generalized transform is considered. REVISITED VERSION 01.12.2020

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...**117352243** = ϕ and to the value of the following RogersRamanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: 83 ...

On some Ramanujan expressions concerning the "First Letter to Hardy". Possible mathematical connections with some equations and topics concerning the Nilpotent Supergravity and Pre − Inflationary Clues. IV

by

Michele Nardelli

In this research thesis (part IV), we calculate some Ramanujan expressions concerning the "First letter to Hardy". We describe the possible mathematical connections with some equations and topics concerning the Nilpotent Supergravity and Pre-Inflationary Clues.

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...- Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 90 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

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Boundary structure constants for the A-series Virasoro minimal models

by

Runkel, Ingo

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...n strings, Phys. Lett. B321 (1994) 349-354, hep-th/9311183. G. Pradisi, A. Sagnotti, Ya. S. Stanev, **Planar duality in SU(2) WZW models** Phys. Lett. B354 (1995) 279-286, hep-th/9503207. The open descendants of nondiagonal SU(2) WZW mode...

On the possible mathematical connections between several Ramanujan equations, 14th root of the Ramanujan's class invariant Q = 1164.2696, various parameters regarding Particle Physics, black hole entropies, and ζ(2)

by

Michele Nardelli

In this paper, we describe and analyze further new mathematical connections between several Ramanujan equations, 14th root of the Ramanujan's class invariant Q= (G_505/G_(101/5))^3 = 1164.2696, various parameters regarding Particle Physics, black hole entropies, and ζ(2) REVISITED AND DEFINITIVE VERSION 29.11.2020

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 205 We have:...

On various equations inherent the works concerning JT Gravity, open strings on the Rindler Horizon, Gauge Theory and integrability and Topological Gravity. New mathematical connections with some sectors of Ramanujan's mathematics

by

Michele Nardelli

In this research paper we have obtained some interesting mathematical connections between various equations inherent the works concerning JT Gravity, open strings on the Rindler Horizon, Gauge Theory and integrability and Topological Gravity of Witten et al. and some sectors of Ramanujan's mathematics, principally the Mock Theta Functions and ζ(2) and some expressions concerning the mass of some particles. v2 26.08.2020 REVISITED AND DEFINITIVE VERSION 29.11.2020

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 332 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

Orientifolds with discrete torsion

by

Klein, Matthias, Rabadán, Raúl

This mention was found in a paper hosted outside of Academia.edu

...p-th/9909108, hep-th/9909120. C. Angelantonj, I. Antoniadis, G. D'Apollonio, E. Dudas, A. Sagnotti, **Type I vacua with brane supersymmetry breaking**, hep-th/9911081. M. Klein, R. Rabadan, in preparation. I. R. Klebanov, E. Witten, Superconformal fi...

Sum of the reciprocals of famous series: mathematical connections with some sectors of Theoretical Physics and String Theory

by

Michele Nardelli

In this paper it has been calculated the sums of the reciprocals of famous series. The sum of the reciprocals gives fundamental information on these series. The higher this sum and larger numbers there are in series and vice versa. Furthermore we understand also what is the growth factor of the series and that there is a clear link between the sums of the reciprocal and the "intrinsic nature" of the series. We have described also some mathematical connections with some sectors of Theoretical Physics and String Theory v1 14.04.2016 - REVISITED VERSION 29.11.2020

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... = and to the 75Torino, 14/04/2016 value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For ξ...

Aspects of type 0 string theory

by

Blumenhagen, R, Font, A, Kumar, A, Lüst, D

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... string theory and S-duality, Nucl. Phys. B499 (1997) 183; hep-th/9701137. A. Sagnotti, M. Bianchi, **On the Systematics of Open String Theories**, Phys. Lett. B247 (1990) 517. A. Sagnotti, Some Properties of Open String Theories; hep-th/95090808...

On Supersymmetry Breaking in Intersecting Brane Models

by

Klein, M

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...2000) 031, hep- th/9909172; C. Angelantonj, I. Antoniadis, G. D'Appollonio, E. Dudas, A. Sagnotti, "**Type I vacua with brane supersymmetry breaking**", Nucl. Phys. B572 (2000) 36, hep- th/9911081; G. Aldazabal, L. E. Ibáñez, F. Quevedo, A. M. Uranga...

On the possible mathematical connections between some equations and topics concerning the Nilpotent Supergravity and some fundamental Ramanujan expressions. III

by

Michele Nardelli

In this research thesis (part III), we describe the possible mathematical connections between some equations and topics concerning the Nilpotent Supergravity and some fundamental Ramanujan expressions. Below the link of the Part IV of the paper

https://www.academia.edu/44607409/On_some_Ramanujan_expressions_concerning_the_First_Letter_to_Hardy_Possible_mathematical_connections_with_some_equations

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On a possible factorization method: possible mathematical connections with some fundamental Ramanujan modular forms and some sectors of String Theory

by

Michele Nardelli

In this research thesis, we describe a possible factorization method and new mathematical connections with some fundamental Ramanujan modular forms and some sectors of String Theory REVISITED VERSION 28.11.2020

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...- Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 39 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

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Asymptotic freedom and infrared behavior in the type 0 string approach to gauge theory

by

Klebanov, Igor R., Tseytlin, Arkady A.

This mention was found in a paper hosted outside of Academia.edu

...ng Theory and S-Duality," Nucl. Phys. B499 (1997) 183, hep-th/9701137. M. Bianchi and A. Sagnotti, "**On the Systematics of Open String Theories**", Phys. Lett. B247 (1990) 517. A. Sagnotti, "Some Properties of Open -String Theories", hep-th/9509...

On the Hardy-Ramanujan-Rademacher Expansion of p(n) and the Rogers- Ramanujan Continued Fractions. Possible mathematical connections with some equations and topics concerning the Supergravity. II

by

Michele Nardelli

In this research thesis (part II), we describe the Hardy-Ramanujan-Rademacher Expansion of p(n) and the Rogers-Ramanujan Continued Fractions. Possible mathematical connections with some equations and topics concerning the Supergravity. Below the link of the Part III of the paper:

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...**117352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

On some Ramanujan equations and modular forms: new possible mathematical connections with some sectors of String Theory

by

Michele Nardelli

In this paper, we describe several Ramanujan equations and modular forms, We describe also the possible mathematical connections with various equations concerning some sectors of String Theory REVISITED VERSION 27.11.2020

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...- Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 48 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

On the Mock Theta Functions, the Rogers-Ramanujan Continued Fractions and the Partition Generating Function. Possible mathematical connections with some equations and topics concerning the Supergravity. I

by

Michele Nardelli

In this research thesis (part I), we describe the Mock Theta Functions, the Rogers-Ramanujan Continued Fractions, the Partition Generating Function and the possible mathematical connections with some equations and topics concerning the Supergravity Below the link of the Part II of the paper:

https://www.academia.edu/44589929/On_the_Hardy_Ramanujan_Rademacher_Expansion_of_p_n_and_the_Rogers_Ramanujan_Continued_Fractions_Possible_mathematical

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On further possible mathematical connections between some equations regarding the Quantum States of Neutrons in the Gravitational Field, the Slow Neutrons, the String Theory, the Supersymmetry and some Ramanujan formulas

by

Michele Nardelli

In this research thesis, we describe the mathematical connections between some equations regarding the Quantum States of Neutrons in the Gravitational Field, the Slow Neutrons, the String Theory, the Supersymmetry and some Ramanujan formulas

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 58 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

Notes on conformal invariance of gauge fields

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Barnich, Glenn, Bekaert, Xavier, Grigoriev, Maxim

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.... Lett. A16 (2001) 731-746, hep-th/0101201. A. Campoleoni, D. Francia, J. Mourad, and A. Sagnotti, "**Unconstrained Higher Spins of Mixed Symmetry. II. Fermi Fields**," Nucl.Phys. B828 (2010) 405-514, 0904.4447. E. Skvortsov and Y. Zinoviev, "Frame-like Actions for ...

THE SUM OF RECIPROCAL FIBONACCI PRIME NUMBERS CONVERGES TO A NEW CONSTANT: MATHEMATICAL CONNECTIONS WITH SOME SECTORS OF EINSTEIN'S FIELD EQUATIONS AND STRING THEORY

by

Michele Nardelli

In this paper we have described a sum of the reciprocal Fibonacci primes that converges to a new constant. Furthermore, in the Section 2, we have described also some new possible mathematical connections with the universal gravitational constant G , the Einstein field equations and some equations of String Theory linked to Φ and π v1

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...XLV, 1914, 350 − 372 We have that: - Srinivasa Ramanujan - Torino, 15/02/2016 Pagina 36 di 44 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

A POSSIBLE PROOF THAT ALL PAIRS OF CONSECUTIVE PRIMES ARE INFINITELY -INCLUDING THE TWIN PRIMES -AND SO THE POLIGNAC'S CONJECTURE IS TRUE: MATHEMATICAL CONNECTIONS WITH SOME SECTORS OF STRING THEORY

by

Michele Nardelli

This paper proves that the Polignac's conjecture that resists since 1849 is true. It changes so the Zhang's formula announced in 2013. Furthermore it is proven that the Brun's constant is an irrational number because all pairs of twin primes are endless. We have also described some mathematical connections with some sectors of String Theory REVISITED VERSION 25.11.2020

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On the mathematical connections between some equations regarding the Motion of Slow Neutrons, the String Theory, the Supersymmetry and some Ramanujan formulas

by

Michele Nardelli

In this research thesis, we describe the mathematical connections between some equations regarding the Motion of Slow Neutrons, the String Theory, the Supersymmetry and some Ramanujan formulas

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...- Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 66 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

On some equations concerning a new possible method for the calculation of the prime numbers revisited: mathematical connections with various expressions of some sectors of String Theory and Number Theory

by

Michele Nardelli

In this revisited paper, in Sections 1 and 2, we have described some equations and theorems concerning and linked to the Riemann zeta function. In the Section 3, we have showed the fundamental equation of the Riemann zeta function and the some equations concerning a new possible method for the calculation of the prime numbers. In conclusion, in the Section 4 we show the possible mathematical connections with various expressions of some sectors of String Theory and Number Theory and finally we suppose as the prime numbers can be identified as possible solutions to the some equations of the string theory (zeta string) v3 REVISITED AND DEFINITIVE VERSION 24.11.2020

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On some equations concerning a new possible method for the calculation of the prime numbers: mathematical connections with various expressions of some sectors of String Theory and Number Theory

by

Michele Nardelli

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On some equations concerning Noncommutative Geometry applied to Cosmology and some sectors of String Theory. Possible mathematical connections with various Ramanujan modular equations.

by

Michele Nardelli

In this research thesis, we describe various equations concerning Noncommutative Geometry applied to Cosmology and some sectors of String Theory. We describe also the possible mathematical connections with various Ramanujan modular equations.

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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 63 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

ON SOME EQUATIONS CONCERNING THE RIEMANN'S PRIME NUMBER FORMULA AND ON A SECURE AND EFFICIENT PRIMALITY TEST. MATHEMATICAL CONNECTIONS WITH SOME SECTORS OF STRING THEORY

by

Michele Nardelli

In this paper we focus attention on some equations concerning the Riemann's prime number formula and on the behavior of a secure primality test. Furthermore, we have described also some mathematical connections with some sectors of String Theory.

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...4, 350 − 372 We have that: 27 - Srinivasa Ramanujan - Versione 1.0 19/06/2014 Pagina 28 di 27 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

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Bachas, Constantin, Petropoulos, Marios

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...tative geometry", JHEP 0005, 010 (2000) [hep-th/0003187]. G. Pradisi, A. Sagnotti and Y.S. Stanev, "**Planar duality in SU (2) WZW models**", Phys. Lett. B354, 279 (1995) [hep-th/9503207]. G. Pradisi, A. Sagnotti and Y.S. Stanev, "Complete...

STUDY ON THE PERFECT NUMBERS AND MERSENNE'S PRIME WITH NEW DEVELOPMENTS. POSSIBLE MATHEMATICAL CONNECTIONS WITH SOME SECTORS OF STRING THEORY

by

Michele Nardelli

In this paper we show that Perfect Numbers are only "even" plus many other interesting relations about Mersenne"s prime. Furthermore, we describe also various equations, lemmas and theorems concerning the expression of a number as a sum of primes and the primitive divisors of Mersenne numbers. In conclusion, we show some possible mathematical connections between some equations regarding the arguments above mentioned and some sectors of String Theory (p-adic and adelic strings and Ramanujan

modular equation linked to the modes corresponding to the physical vibrations of the bosonic strings, to some equations regarding the Brane Supersymmetry Breaking and AdS Vacua from Dilaton Tadpoles and Form Fluxes). v1 14.12.2012 UPDATED AND DEFINITIVE VERSION 23.11.2020

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...vibrations of the bosonic strings, to some equations regarding the Brane Supersymmetry Breaking and **AdS Vacua from Dilaton Tadpoles and Form Fluxes**). Versione 1.0 14/12/2012 Pagina 2 di 125 Index: 1 PERFECT NUMBERS ....

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The Heterotic Life of the D-Particle

by

Danielsson, Ulf H., Ferretti, Gabriele

We study the dynamics of D-particles (D0-branes) in type I' string theory and of the corresponding states in the dual heterotic description. We account for the presence of the two eight-orientifolds (eight-dimensional orientifold planes) and sixteen D8-branes by deriving the appropriate quantum mechanical system. We recover the familiar condition of eight D8-branes for each eight-orientifold. We investigate bound states and compute the phase shifts for the scattering of such states and find that they agree with the expectations from the supergravity action. In the type I' regime we study the motion transverse to the eight-orientifold and find an interesting cancellation effect.

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On some equations concerning Higher-Spin Fields and some sectors of String Theory. Possible mathematical connections with various Riemann equations and Ramanujan modular equations. II

by

Michele Nardelli

In this research thesis (Part II), we describe various equations concerning Higher-Spin Fields and some sectors of String Theory. We describe also the possible mathematical connections with various Riemann equations and Ramanujan modular equations.

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Metric Lagrangians with two propagating degrees of freedom

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Krasnov, K.

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...] G. 't Hooft and M. J. G. Veltman, Annales Poincare Phys. Theor. A 20, 69 (1974). M. H. Goroff and **A. Sagnotti**, Nucl. Phys. B 266, 709 (1986). R. P. Woodard, arXiv:0907.4238 [gr-qc]. N. Marcus and A. Sagnotti, ...

On some equations concerning "Foundations for a general theory of functions of a complex variable" and some sectors of String Theory. Possible mathematical connections with various Riemann equations and Ramanujan modular equations.

by

Michele Nardelli

In this research thesis, we describe various equations concerning "Foundations for a general theory of functions of a complex variable" and some sectors of String Theory. We describe also the possible mathematical connections with various Riemann equations and Ramanujan modular equations.

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On some equations regarding massive type IIA orientifold compactifications of String Theory. Possible new mathematical development by the connections obtained with some sectors of Number Theory

by

Michele Nardelli

In this research thesis we describe some equations regarding massive type IIA orientifold compactifications of string theory. Furthermore, we describe possible new mathematical development by the connections obtained with some sectors of Number Theory

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...7352243 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 89 From **AdS Vacua from Dilaton Tadpoles and Form Fluxes** - J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 - March 27, 2018 We have: For...

TRANSCENDENTAL NUMBERS AND PROOF THAT THE ZEROS OF RIEMANN ZETA FUNCTION ζ(s) ARE ONLY AND ONLY THOSE WITH THE REAL PART Re=1/2

by

Michele Nardelli

In this paper we focus our attention on the behavior of transcendental number that is a (possibly complex) number that is not algebraic-it is not a root of a non-zero polynomial equation with rational coefficients. Furthermore, we prove in paragraph 2 that the zeros of the Riemann zeta function are only and only those with real part equal to Re(½). We describe also the possible mathematical connections with some sectors of String Theory v1 30.01.2014 REVISITED AND DEFINITIVE VERSION 21.11.2020

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Brane intersections, anti-de Sitter space-times and dual superconformal theories

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Jan Boonstra, Harm, Boonstra, Harm Jan, Peeters, Bas, Skenderis, Kostas

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On some equations concerning the Bouncing Cosmology in f(Q) Symmetric Teleparallel Gravity. Possible mathematical connections with various Ramanujan modular equations and some sectors of String Theory

by

Michele Nardelli

In this research thesis, we describe various equations concerning the Bouncing Cosmology in f(Q) Symmetric Teleparallel Gravity. Further, we describe the possible mathematical connections with various Ramanujan modular equations and some sectors of String Theory

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ZEROS AND GRAM POINTS ON THE CRITICAL LINE ζ(½±ix)

by

Michele Nardelli

In this paper we focus attention on a relationship between zeros and Gram points with the prime numbers on the critical line ζ(½±ix). Furthermore, we focus attention also on a formula to determine prime numbers using the Gram Points. So if the zeros of the Riemann function give the exact number of prime numbers, with the Gram Points always on the critical line we can even find the values of all prime numbers. We describe also some possible mathematical connections with some sectors of String Theory v1 31.03.2014 REVISITED VERSION 20.11.2020

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On some equations concerning Higher-Spin Fields and some sectors of String Theory. Possible mathematical connections with various Riemann equations and Ramanujan modular equations.

by

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In this research thesis, we describe various equations concerning Higher-Spin Fields and some sectors of String Theory. We describe also the possible mathematical connections with various Riemann equations and Ramanujan modular equations.

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...pretation: 5 Result: 1.10554754897…*10-52 ≈ 1.1056 * 10-52 (Cosmological Constant value) Now, from: **On higher spins and the tensionless limit of String Theory** − A. Sagnotti and M. Tsulaia - arXiv:hep-th/0311257v2 9 Jan 2004 We have: 6 7 L2 determines the (A)...

Discrete gauge symmetries in discrete MSSM-like orientifolds

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Ibáñez, L.E., Schellekens, A.N., Uranga, A.M.

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...hys. Lett. B 199 (1987) 380. C. Angelantonj, M. Bianchi, G. Pradisi, A. Sagnotti and Y. S. Stanev, "**Comments on Gepner models and type I vacua in string theory**," Phys. Lett. B 387 (1996) 743 [ArXiv:hep-th/9607229]. G. Aldazabal, E. C. Andres, M. Leston and C....

CONNECTION BERNOULLI NUMBERS Bn AND RIEMANN ς(s) ZETA FUNCTION WITH ITS ZEROS

by

Michele Nardelli

In this paper we focus attention on a relationship between the denominators of Bernoulli numbers Bn and prime numbers.We can define the Bernoulli's function as the analytic continuation of the Bernoulli's formula in the field of complex numbers. So we find an interesting correlation on the Riemann ς(s) zeta function and the Bernoulli numbers in its zeros. Furthermore, we describe also the possible mathematical connections with some sectors of String Theory Original version September 2017 UPDATED AND REVISITED VERSION 19.11.2020

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...anujan continued fraction: = and to the Versione 1.0 07/03/2014 Pagina 73 di 55 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

A POSSIBLE PROOF THAT THE FERMAT PRIME NUMBERS ARE ONLY "THE FIRST FIVE" AND ALL THE OTHER NUMBERS ARE COMPOSITE: POSSIBLE MATHEMATICAL CONNECTIONS WITH SOME SECTORS OF STRING THEORY

by

Michele Nardelli

In this paper we show that Fermat prime numbers are only 'the first five' of his group and all the other numbers are composite. Furthermore, we have described some mathematical connections between some equations concerning the expression of a number as a sum of primes and some fundamental numbers concerning the Fermat numbers in the general group Gp and the Fermat numbers that are given by the powers of 2, i.e. Fn. In conclusion, we describe also some mathematical connections with the Ramanujan functions, with the modes corresponding to the physical vibrations of the bosonic strings and superstrings and the possible connections with some sectors of String Theory v1 05.09.2017 UPDATED VERSION 19.11.2020

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On the possible mathematical connections between some Ramanujan-Cardy-Rademacher formulas, various parameters of Open String, Particle Physics, ϕ and ζ(2) : a review

by

Michele Nardelli

In this paper we describe and analyze new possible mathematical connections between some Ramanujan-Cardy-Rademacher formulas, various parameters of Open String, Particle Physics, ϕ and ζ(2) REVISITED AND DEFINITIVE VERSION 19.11.2020

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On a possible method of factorization and various applications in Number Theory and some sectors of String Theory

by

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In this paper, we describe various equations concerning a possible method of factorization and various applications in Number Theory and some sectors of String Theory UPDATED AND DEFINITIVE VERSION 18.11.2020

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On some equations concerning the Riemann Zeta Function and the Distribution of Primes. Possible mathematical connections with various expressions regarding several sectors of String Theory and the Ramanujan mathematics. II

by

Michele Nardelli

In this research thesis (Part II), we describe some equations concerning the Riemann Zeta Function and the Distribution of Primes, obtaining various mathematical connections with various expressions regarding several sectors of String Theory and the Ramanujan mathematics

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On some equations concerning the Cosmological Constant. Possible mathematical connections with various expressions regarding several sectors of String Theory and the Rogers-Ramanujan continued fractions.

by

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In this paper, we describe some equations concerning the Cosmological Constant, obtaining possible mathematical connections with various expressions regarding several sectors of String Theory and the Rogers-Ramanujan continued fractions.

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On some equations concerning the Riemann Zeta Function and the Distribution of Primes. Possible mathematical connections with various expressions regarding several sectors of String Theory and the Ramanujan mathematics

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Analyzing further Non-Linear Differential Equations of the Second Order. Possible mathematical connections with various expressions concerning some sectors of String Theory and the Ramanujan mathematics III.

by

Michele Nardelli

In this research thesis (Part III), we describe further Non-Linear Differential Equations of the Second Order and the possible mathematical connections with various expressions concerning some sectors of String Theory and the Ramanujan mathematics.

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On some equations concerning quantum electrodynamics coupled to quantum gravity, the gravitational contributions to the gauge couplings and quantum effects in the theory of gravitation: mathematical connections with some sector of String Theory and Number Theory

by

Michele Nardelli

This paper is principally a review, a thesis, of principal results obtained from various authoritative theoretical physicists and mathematicians in some sectors of theoretical physics and mathematics. In this paper in the Section 1, we have described some equations concerning the quantum electrodynamics coupled to quantum gravity. In the Section 2, we have described some equations concerning the gravitational contributions to the running of gauge couplings. In the Section 3, we have described some equations concerning some quantum effects in the theory of gravitation. In the Section 4, we have described some equations concerning the supersymmetric Yang-Mills theory applied in string theory and some lemmas and equations concerning various gauge fields in any non-trivial quantum field theory for the pure Yang-Mills Lagrangian. Furthermore, in conclusion, in the Section 5, we have described various possible mathematical connections between the argument above mentioned and some sectors of Number Theory and String Theory, principally with some equations concerning the Ramanujan"s modular equations that are related to the physical vibrations of the bosonic strings and of the superstrings, some Ramanujan"s identities concerning π and the zeta strings. UPDATED AND DEFINITIVE VERSION 16.11.2020

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On some mathematical connections between the Cubic Equation and some sectors of String Theory and Relativistic Quantum Gravity

by

Michele Nardelli

In this paper we have described some interesting mathematical connections with various expressions of some sectors of String Theory and Relativistic Quantum Gravity, principally the Palumbo-Nardelli model applied to the bosonic strings and the superstrings, and some parts of the theory of the Cubic Equation. v1 2005 - REDUCED AND UPDATED VERSION 16.11.2020

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Cvetič, Mirjam, Langacker, Paul, Shiu, Gary

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Analyzing further Non-Linear Differential Equations of the Second Order. Possible mathematical connections with various expressions concerning some sectors of String Theory and the Ramanujan mathematics II.

by

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In this research thesis (Part II), we describe further Non-Linear Differential Equations of the Second Order and the possible mathematical connections with various expressions concerning some sectors of String Theory and the Ramanujan mathematics.

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On various application of Ramanujan's mathematics in some sectors of Cosmology and String Theory.

by

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In this research thesis, we describe various application of Ramanujan's mathematics in some sectors of Cosmology and String Theory. UPDATED VERSION 15.11.2020

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O(Nc) and USp(Nc) QCD from String Theory

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Imoto, T., Sakai, T., Sugimoto, S.

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On Non-Linear Differential Equations of the Second Order. Possible mathematical connections with various formulas regarding some sectors of String Theory and the Ramanujan mathematics.

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In this research thesis, we describe Non-Linear Differential Equations of the Second Order and the possible mathematical connections with various formulas regarding some sectors of String Theory and the Ramanujan mathematics.

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Anomaly cancellation in D=4, orientifolds and linear/chiral multiplet duality

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Analyzing some Ramanujan's differential equations: new possible mathematical connections with ϕ, $\zeta(2)$, and various parameters of Particle Physics

by

Michele Nardelli

In this paper we have described some Ramanujan's differential equations: new possible mathematical connections with ϕ, $\zeta(2)$, and various parameters of Particle Physics and String Theory v1 March 2020 UPDATED VERSION 15.11.2020

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 98 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

HIGHLY CITED

Parent Field Theory and Unfolding in BRST First-Quantized Terms

by

Barnich, G., Grigoriev, M., Semikhatov, A., Tipunin, I.

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...bosonic strings in AdS spacetime," JHEP 11 (2003) 028, hep-th/0309222. A. Sagnotti and M. Tsulaia, "**On higher spins and the tensionless limit of string theory**," Nucl. Phys. B682 (2004) 83-116, hep-th/0311257. X. Bekaert, I. L. Buchbinder, A. Pashnev, and M. ...

Forces between stable non-BPS branes

by

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On some Ramanujan equations: further possible mathematical connections with ϕ, $\zeta(2)$, several equations of Highly Effective Actions and Modular Invariance in Superstring Theory From N = 4 Super-Yang Mills

by

Michele Nardelli

In this paper we have described some Ramanujan equations and obtained new possible mathematical connections with ϕ , $\zeta(2)$, several equations of Highly Effective Actions and Modular Invariance in Superstring Theory From N = 4 Super Yang Mills UPDATED AND DEFINITIVE VERSION 14.11.2020

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The Emergence of Fermions and The E11 Content

by

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On some equations concerning Higher-Spin Fields and some sectors of String Theory. Possible mathematical connections with various formulas regarding the Ramanujan mathematics.

by

Michele Nardelli

In this research thesis, we describe various equations concerning Higher-Spin Fields and some sectors of String Theory. We describe also the possible mathematical connections with various formulas regarding the Ramanujan mathematics.

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...f the following Ramanujan's class invariant $Q = G505 /G101/5\ 3 = 1164.2696$ i.e. 1.65578... From: **On Higher Spins with a Strong Sp(2,R) Condition** - A. Sagnotti, E. Sezgin and P. Sundell - Based on the lectures presented by A. Sagnotti at the Fir...

On some results of Hyperbolic Equations and the possible mathematical connections with some sectors of String Theory and some Ramanujan's expressions.

by

Michele Nardelli

In this research thesis, we describe some results concerning the Hyperbolic Equations and the possible mathematical connections with some sectors of String Theory and some Ramanujan's expressions.

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...- Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 37 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

On some equations concerning Holographic Entanglement Entropy and some sectors of String Theory. Possible mathematical connections with various formulas regarding the Riemann zeta function and the Ramanujan mathematics.

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Michele Nardelli

In this research thesis, we describe various equations concerning Holographic Entanglement Entropy and some sectors of String Theory. We describe also the possible mathematical connections with various formulas regarding the Riemann zeta function and the Ramanujan mathematics.

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...$3 = \phi$ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On some possible mathematical connections concerning Noncommutative Minisuperspace Cosmology, Noncommutative Quantum Cosmology in low-energy String Action, NC Kantowsky-Sachs Quantum Model, Spectral Action Principle associated with a Noncommutative Space and some aspects concerning the LQG

by

Michele Nardelli

This paper is a review of some interesting results that has been obtained in various sectors of noncommutative cosmology, string theory and loop quantum gravity. In the Section 1, we have described some results concerning the noncommutative model of the closed Universe with the scalar field. In the Section 2, we have described some results concerning the low-energy string effective quantum cosmology. In the Section 3, we have showed some results regarding the noncommutative Kantowsky-Sachs quantum model. In Section 4, we have showed some results regarding the spectral action principle associated with a noncommutative space and applied to the Einstein-Yang-Mills system. Section 5 is a review of some results regarding some aspects of loop quantum gravity. In Section 6, we've described some results concerning the dynamics of vector mode perturbations including quantum corrections based on loop quantum gravity. In Section 7, we've described some equations concerning matrix models as a non-local hidden variables theories. In Section 8, we have showed some results concerning the quantum supergravity and the role of a "free" vacuum in loop quantum gravity. In Section 9, we've described various results concerning the unifying role of equivariant cohomology in the Topological Field Theories. In conclusion, in Section 10 we have showed the possible mathematical connections between the arguments above mentioned and some relationship with some equations concerning some sectors of Number Theory. In the Appendix A , we describe the Ramanujan modular forms applied to the Palumbo-Nardelli model. In Appendix B, we describe the mathematical connections with some sectors of String Theory regarding the Brane Supersymmetry Breaking REVISITED AND UPDATED VERSION 13.11.2020

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Interactions of charged spin-2 fields

by

Rham, Claudia de, de Rham, Claudia, Matas, Andrew, Ondo, Nicholas A, Tolley, Andrew J

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On some formulas concerning Yang-Mills equations, p-Adic, Adelic and Zeta Strings and Supersymmetry. Possible mathematical connections with various expressions regarding the Ramanujan mathematics.

by

Michele Nardelli

In this research thesis, we describe various formulas concerning Yang-Mills equations, p-Adic, Adelic and Zeta Strings and Supersymmetry. We obtain several possible mathematical connections with various expressions regarding the Ramanujan mathematics REVISITED AND DEFINITIVE VERSION 12.11.2020

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...lue the value of the following Rogers-Ramanujan continued fraction: 50 = and to From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On some equations concerning Three-Dimensional Gravity Reconsidered and some sectors of String Theory. Possible mathematical connections with various formulas regarding the Measure Theory and the Ramanujan mathematics.

by

Michele Nardelli

In this research thesis, we describe various equations concerning Three-Dimensional Gravity Reconsidered and some sectors of String Theory. Possible mathematical connections with various formulas regarding the Measure Theory and the Ramanujan mathematics.

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...$3 = \phi$ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

STUDY ON THE PERFECT NUMBERS AND MERSENNE'S PRIME WITH NEW DEVELOPMENTS. POSSIBLE MATHEMATICAL CONNECTIONS WITH SOME SECTORS OF STRING THEORY

by

Michele Nardelli

In this paper we show that Perfect Numbers are only "even" plus many other interesting relations about Mersenne"s prime. Furthermore, we describe also various equations, lemmas and theorems concerning the expression of a number as a sum of primes and the primitive divisors of Mersenne numbers. In conclusion, we show some possible mathematical connections between some equations regarding the arguments above mentioned and some sectors of string theory (p-adic and adelic strings and Ramanujan modular equation linked to the modes corresponding to the physical vibrations of the bosonic strings). REVISITED AND DEFINITIVE VERSION 12.11.2020

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...$3 = \phi$ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Anatomy of a duality

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On several equations concerning Black Holes, Wormholes and Universe: mathematical connections with various parameters of Ramanujan formulas.

by

Michele Nardelli

In this research thesis, we describe some equations concerning Black Holes, Wormholes and Universe and we describe the possible mathematical connections with various parameters of Ramanujan formulas UPDATED VERSION 11.11.2020

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** 71 J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: ...

On some equations concerning the Casimir Effect Between World-Branes in Heterotic M- Theory and the Casimir effect in spaces with nontrivial topology. Mathematical connections with some sectors of Number Theory

by

Michele Nardelli

The present paper is a review, a thesis of some very important contributes of P. Horava, M. Fabinger, M. Bordag, U. Mohideen, V.M. Mostepanenko, Trang T. Nguyen et al. regarding various applications concerning the Casimir Effect. In this paper in the Section 1 we have showed some equations concerning the Casimir Effect between two ends of the world in M-Theory, the Casimir force between the boundaries, the Casimir effect on the open membrane, the Casimir form and the Casimir correction to the string tension that is finite and negative. In the Section 2, we have described some equations concerning the Casimir effect in spaces with nontrivial topology, i.e. in spaces with non-Euclidean topology, the Casimir energy density of a scalar field in a closed Friedmann model, the Casimir energy density of a massless field, the Casimir contribution and the total vacuum energy density, the Casimir energy density of a massless spinor field and the Casimir stress-energy tensor in the multi-dimensional Einstein equations with regard the Kaluza-Klein compactification of extra dimensions. Further, in the Section 1 and 2 we have described some mathematical connections concerning some sectors of Number Theory, i.e. the Palumbo-Nardelli model, the Ramanujan modular equations concerning the physical vibrations of the bosonic strings and the superstrings and the connections of some values contained in the equations with some values concerning the new universal music system based on fractional powers of Phi and Pigreco. In the Section 3, we have described some mathematical connections concerning the Riemann zeta function and the zeta-strings. In conclusion, in Section 4, we have described some mathematical connections concerning some equations regarding the Casimir effect and vacuum fluctuations. We have described also the possible solutions of some equations concerning "An Update on Brane Supersymmetry Breaking" and "AdS Vacua from Dilaton Tadpoles and Form Fluxes". In conclusion (Appendix A), we have described some mathematical connections between the equation of the energy negative of the Casimir effect, the Casimir operators and some sectors of the Number Theory, i.e. the triangular numbers, the Fibonacci"s numbers, Phi, Pigreco and the partition of numbers. v1 05.09.2017 v2 May 2020 UPDATED AND DEFINITIVE VERSION 11.11.2020

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...he possible solutions of some equations concerning "An Update on Brane Supersymmetry Breaking" and "**AdS Vacua from Dilaton Tadpoles and Form Fluxes**" In conclusion (Appendix A), we have described some mathematical connections between the equation o...

On the Ramanujan's mathematics applied to some parameters of Extended Gauged Supergravity, Inflaton Potentials and some sectors of String Theory revisited: further new possible mathematical connections

by

Michele Nardelli

In this research thesis, we have described some Ramanujan expressions applied to several parameters of Extended Gauged Supergravity, Inflaton Potentials and some sectors of String Theory, obtaining new possible mathematical connections. v1 05.02.2020 REVISITED DEFINITIVE VERSION 11.11.2020

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Mathematical connections between various Ramanujan's equations, values of mass and electric charges of fundamental particles and physical data of Kerr Supermassive Black Hole M87

by

Michele Nardelli

In this research thesis, we have described some mathematical connections between various Ramanujan's equations, values of mass and electric charges of fundamental particles and physical data of Kerr Supermassive Black Hole M87. We have obtained some very interesting results concerning a possible mathematical unification between some sectors of particle and string physics and some sectors of black hole physics, through the use and development of some formulas discovered by S. Ramanujan REVISITED VERSION 10.11.2020

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BRST Lagrangian construction for spin-2 field in Einstein space

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Buchbinder, I.L., Krykhtin, V.A., Lavrov, P.M.

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SIMILARITIES OF GAUGE AND GRAVITY AMPLITUDES

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On some equations concerning Integrable Scalar Cosmologies and Supersymmetry. Possible mathematical connections with various equations regarding Ramanujan mathematics.

by

Michele Nardelli

In this research thesis, we describe various equations concerning Integrable Scalar Cosmologies and Supersymmetry, obtaining possible mathematical connections with various equations regarding Ramanujan mathematics.

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Ferrara–Porrati–Sagnotti approach and the one-dimensional supersymmetric model with PBGS

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On some Ramanujan expressions revisited: mathematical connections with ϕ and various equations regarding a possible model applied to the String Theory and the Open strings

by

Michele Nardelli

In this revisited paper we have described some Ramanujan equations and obtained some mathematical connections with ϕ and various equations regarding a possible model applied to the String Theory and the Open strings. REVISITED VERSION 10.11.2020

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On some equations concerning the quantitative isoperimetric inequality and related Topics. Possible mathematical connections with various equations regarding several sectors of Ramanujan mathematics, String Theory and Supersymmetry. III

by

Michele Nardelli

In this research thesis (part III), we describe various equations concerning the quantitative isoperimetric inequality and related Topics and the possible mathematical connections with some equations regarding several sectors of Ramanujan mathematics, String Theory and Supersymmetry

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Invitation to Random Tensors

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D-branes and dual gauge theories in type 0 strings

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On the possible mathematical connections between Ramanujan formulas, equations concerning Primordial Black Holes and Inflation and some sectors of Number Theory

by

Michele Nardelli

In this revisited research thesis, we describe and analyze the possible mathematical connections between Ramanujan formulas, equations concerning Primordial Black Holes and Inflation and some sectors of String Theory and Number Theory. v1 29.06.2020 REVISITED AND DEFINITIVE VERSION 09.11.2020

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On some equations concerning the quantitative isoperimetric inequality and related Topics. Possible mathematical connections with various equations regarding several sectors of Ramanujan mathematics, String Theory and Supersymmetry

by

Michele Nardelli

In this research thesis, we describe various equations concerning the quantitative isoperimetric inequality and related Topics and the possible mathematical connections with some equations regarding several sectors of Ramanujan mathematics, String Theory and Supersymmetry below the link of the part II of the paper

https://www.academia.edu/44457107/On_some_equations_concerning_the_quantitative_isoperimetric_inequality_and_related_Topics_Possible_mathematical_connections_v

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On some equations concerning String Theory, Rotating Charged Black String and Three Dimensional Black Holes: possible mathematical connections with Ramanujan's mathematics

by

Michele Nardelli

In this research thesis, we describe various equations concerning String Theory, Rotating Charged Black String and Three Dimensional Black Holes. We describe also the possible mathematical connections with Ramanujan's mathematics REVISITED VERSION 08.11.2020

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On the possible mathematical connections between some equations of various sectors concerning the D-Branes and some Ramanujan's modular equations and approximations to π

by

Michele Nardelli

In this research thesis, we have described some new mathematical connections between some equations of various sectors concerning the D-Branes and some Ramanujan's modular equations and approximations to π . v1 19.10.2019 REVISITED VERSION 08.11.2020

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On some equations concerning the quantitative isoperimetric inequality and related Topics. Possible mathematical connections with various equations regarding several sectors of Ramanujan mathematics, String Theory and Supersymmetry. II

by

Michele Nardelli

In this research thesis (part II), we describe various equations concerning the quantitative isoperimetric inequality and related Topics and the possible mathematical connections with some equations regarding several sectors of Ramanujan mathematics, String Theory and Supersymmetry below the link of the part I and III of the paper:

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ANOMALY CANCELLATION: A RETROSPECTIVE FROM A MODERN PERSPECTIVE

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Intersecting branes and anti-de Sitter spacetimes in SU(2)×SU(2) gauged supergravity

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Singh, Harvendra

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On a general theory of (r-1) dimensional measure in an r-dimensional space. Possible mathematical connections with some equations regarding some sectors of Ramanujan mathematics, String Theory and Supersymmetry

by

Michele Nardelli

In this research thesis, we describe a general theory of (r-1) dimensional measure in an r-dimensional space and the possible mathematical connections with some equations regarding some sectors of Ramanujan mathematics, String Theory and Supersymmetry

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On the generalized monogenic (quasi-analytic) functions defined by double Cauchy integrals. Possible mathematical connections with some equations regarding some sectors of Ramanujan mathematics, String Theory and Supersymmetry

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Michele Nardelli

In this research thesis, we describe the generalized monogenic (quasi-analytic) functions defined by double Cauchy integrals and the possible mathematical connections with some equations regarding some sectors of Ramanujan mathematics, String Theory and Supersymmetry DEFINITIVE VERSION 07.11.2020 Below the link of two papers connected to the arguments of this research thesis:

https://www.academia.edu/44457107/On_some_equations_concerning_the_quantitative_isoperimetric_inequality_and_related_Topics_Possible_mathematical_connections_v

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From Ramanujan's Mock Theta Functions to Black Hole Entropies and Particle Physics: Symmetry, Supersymmetry and Golden Ratio

by

Michele Nardelli

In the present revisited research thesis, we have obtained various interesting new mathematical connections concerning the Ramanujan's mock theta functions, some like-particle solutions, Supersymmetry, some formulas of Haramein's Theory and Black Holes entropies. We obtain excellent approximations to the values of the golden ratio, its conjugate and $\zeta(2)$ UPDATED AND REVISITED VERSION 07.11.2020 below the link of a paper connected to this topic:

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Higher Spin Gravity and Exact Holography

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Open strings on the Neveu-Schwarz 5-brane

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...21] [22] [23] [24] 21 [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] 22 **A. Sagnotti**, in "Non-Perturbative Quantum Field Theory", eds. G. Mack et al (Pergamon Press, 1988), p. 521. M...

On the Einstein-Hilbert action: possible mathematical connections with several equations regarding some sectors of Ramanujan mathematics, String Theory and Supersymmetry

by

Michele Nardelli

In this research thesis, we describe the Einstein-Hilbert action and the possible mathematical connections with several equations regarding some sectors of Ramanujan mathematics, String Theory and Supersymmetry REVISITED VERSION 06.11.2020

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Tensionless strings, correspondence with sigma-model

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Calabi-Yau fourfolds with flux and supersymmetry breaking

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On the mathematical connections between some equations regarding The Two-mass Contribution to the Three-Loop Polarized Gluonic Operator Matrix Element A^(3)gg;Q , Supersymmetry, "Climbing Phenomenon" and some Ramanujan formulas. III

by

Michele Nardelli

In this research thesis, we describe the mathematical connections between some equations regarding The Two-mass Contribution to the Three-Loop Polarized Gluonic Operator Matrix Element A(3)gg;Q , Supersymmetry, "Climbing Phenomenon" and some Ramanujan formulas.

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Non-perturbative transitions among intersecting-brane vacua

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On the possible mathematical connections between the Ramanujan Mock ϑ- functions of 7th order, some sectors of Black Hole Physics, String Theory and Supersymmetry

by

Michele Nardelli

In this research thesis, we describe the possible mathematical connections between the Ramanujan Mock ϑ-functions of 7th order, some sectors

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... $= \phi$ and to the value of the following Rogers-Ramanujan continued fraction: 70 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For $\xi=1$ we obtain: (2*...

No cross-interactions among different tensor fields with the mixed symmetry (3, 1) intermediated by a vector field

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On the mathematical connections with some Hawking's Cosmology equations and a Ramanujan equation linked to a formula concerning the "Pair Creation of Black Holes During Inflation" of Hawking-Bousso

by

Michele Nardelli

In this paper we have described the mathematical connections with some Hawking's Cosmology equations and a Ramanujan equation linked to a formula concerning the-Pair Creation of Black Holes During Inflation‖ of Hawking-Bousso REVISITED VERSION 04.11.2020

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On the mathematical connections between some equations regarding two-loop four-point amplitude of pure Yang-Mills theory, Supersymmetry and some Ramanujan formulas. II

by

Michele Nardelli

In this research thesis (part II), we describe the mathematical connections between some equations regarding two-loop four-point amplitude, Supersymmetry and some Ramanujan formulas. v2 04.11.2020 REVISITED AND DEFINITIVE VERSION (104 pg +12)

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Detailed analysis of the dependence of 1-loop counter-terms on gauge and parametrization in Einstein gravity with a cosmological constant

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On the mathematical connections between some equations regarding two-loop four-point amplitude of pure Yang-Mills theory, Supersymmetry and some Ramanujan formulas. II

by

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In this research thesis (part II), we describe the mathematical connections between some equations regarding two-loop four-point amplitude, Supersymmetry and some Ramanujan formulas. Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/Ramanujan%20XVI.pdf

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Caccioppoli's mathematics revisited: possible mathematical connections with some Ramanujan equations and some sectors of String Theory and Supersymmetry

by

Michele Nardelli

In this research thesis, we describe Caccioppoli's mathematics revisited and the possible mathematical connections with some Ramanujan equations and some sectors of String Theory and Supersymmetry REVISITED VERSION 03.11.2020

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On some formulas concerning the Conformal Cyclic Cosmology and General Relativity. Mathematical connections between some Ramanujan equations and some sectors of String Theory: a review

by

Michele Nardelli

In this review thesis, we describe some formulas concerning the Conformal Cyclic Cosmology and General Relativity and the possible mathematical connections between some Ramanujan equations and some sectors of String Theory REVISITED VERSION 03.11.2020

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On the Lebesgue integral and the Lebesgue measure: mathematical applications in some sectors of Chern-Simons theory and Yang-Mills gauge theory and mathematical connections with some sectors of String Theory and Number Theory

by

Michele Nardelli

In this paper, in the Section 1, we have described some equations and theorems concerning the Lebesgue integral and the Lebesgue measure. In the Section 2, we have described the possible mathematical applications, of Lebesgue integration, in some equations concerning various sectors of Chern-Simons theory and Yang-Mills gauge theory, precisely the two dimensional quantum Yang-Mills theory. In conclusion, in the Section 3, we have described also the possible mathematical connections with some sectors of String Theory and Number Theory, principally with some equations concerning the Ramanujan"s modular equations that are related to the physical vibrations of the bosonic strings and of the superstrings, some Ramanujan"s identities concerning π and the zeta strings. REVISITED VERSION 02.11.2020

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Black Holes and Thermodynamics: The First Half Century

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On the possible mathematical connections between several parameters of Ramanujan's mathematics, some equations concerning the gravitational-waves and black holes , various parameters regarding Particle Physics, φ and ζ(2).

by

Michele Nardelli

In this paper, we describe and analyze the possible mathematical connections between several parameters of Ramanujan's mathematics, some equations concerning the gravitational-waves and black holes , various parameters regarding Particle Physics, φ and ζ(2). REVISITED VERSION 02.11.2020

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Orbifold symmetry reductions of massive boson−fermion degeneracy

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..., J. Engquist, G. Ferretti and R. Marnelius for helpful conversations, and especially J. Mourad and **A. Sagnotti** for stimulating discussions and collaboration. For the kind hospitality extended to me while part o...

On some equations concerning a new possible method for the calculation of the prime numbers: mathematical connections with various expressions of some sectors of String Theory and Number Theory

by

Michele Nardelli

In this paper, in Sections 1 and 2, we have described some equations and theorems concerning and linked to the Riemann zeta function. In the Section 3, we have showed the fundamental equation of the Riemann zeta function and the some equations concerning a new possible method for the calculation of the prime numbers. In conclusion, in the Section 4 we show the possible mathematical connections with various expressions of some sectors of String Theory and Number Theory and finally we suppose as the prime numbers can be identified as possible solutions to the some equations of the string theory (zeta string) REVISITED VERSION 01.11.2020

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On T-duality for open strings in general abelian and nonabelian gauge field backgrounds

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On the mathematical connections between some equations regarding three-loop half-maximal-Supergravity critical dimension, one-loop four-point amplitude of pure Yang-Mills theory, Supersymmetry and some Ramanujan formulas

by

Michele Nardelli

In this research thesis, we describe the mathematical connections between some equations regarding three-loop half-maximal-supergravity critical dimension, one-loop four-point amplitude of pure Yang-Mills theory, Supersymmetry and some Ramanujan formulas.

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ON SOME APPLICATIONS OF THE VOLONTERIO'S TRANSFORM: SERIES DEVELOPMENT OF TYPE Nk+M AND MATHEMATICAL CONNECTIONS WITH SOME SECTORS OF THE STRING THEORY

by

Michele Nardelli

In this work we have described a new mathematical application concerning the discrete and the analytic functions: the Volonterio's Transform (V Transform) and the Volonterio's Polynomial. We have descrive various mathematical applications and properties of them, precisely the series development of the type Nk+M. Furthermore, we have showed also various examples and the possible mathematical connections with some sectors of Number Theory and String Theory. REVISITED AND UPDATED VERSION 31.10.2020

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On some applications of the Eisenstein series in String Theory. Mathematical connections with some sectors of Number Theory and with Φ and π.

by

Michele Nardelli

In this paper in the Section 1, we have described some equations concerning the duality and higher derivative terms in M-theory. In the Section 2, we have described some equations concerning the moduli-dependent coefficients of higher derivative interactions that appear in the low energy expansion of the four-supergraviton amplitude of maximally supersymmetric string theory compactified on a d-torus. Thence, some equations regarding the automorphic properties of low energy string amplitudes in various dimensions. In the Section 3, we have described some equations concerning the Eisenstein series for higher-rank groups, string theory amplitudes and string perturbation theory. In the Section 4, we have described some equations concerning U-duality invariant modular form for the D^6 R^4 interaction in the effective action of type IIB string theory compactified on T^2 . Furthermore, in the Section 5, we have described various possible mathematical connections between the arguments above mentioned and some sectors of Number Theory, principally the Aurea Ratio, some equations concerning the Ramanujan's modular equations that are related to the physical vibrations of the bosonic strings and of the superstrings, some Ramanujan's identities concerning π and the zeta strings. In conclusion, in the Appendix A, we have analyzed some pure numbers concerning various equations described in the present paper. Thence, we have obtained some useful mathematical connections with some sectors of Number Theory. In the Appendix B, we have showed the column "system" concerning the frequency system based on Phi and the table where we have showed the difference between the values of Phi^(n/7) and the values of the column "system" v1 26.02.2011 REVISITED VERSION 31.10.2020

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The group theory of oxidation II: cosets of non-split groups

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On the picture dependence of Ramond-Ramond cohomology

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Further mathematical connections between various solutions of Ramanujan's equations and some particle masses and Cosmological parameters: Pion meson (139.57 MeV), Higgs boson, scalar meson f0(1710), hypothetical gluino and Cosmological Constant value. XIV

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described further possible mathematical connections with some parameters of Particle Physics, String Theory and Cosmology: Pion meson mass (139.57 MeV), Higgs boson mass, scalar meson f 0 (1710) mass, hypothetical gluino mass and Cosmological Constant value. REVISITED AND UPDATED VERSION 31.10.2020

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Holography on non-orientable surfaces

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The orbifolds of permutation type as physical string systems at multiples of c=26 V. Cyclic permutation orbifolds

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Mathematical connections between some expressions regarding "An attempt to a β rays theory", some sectors of Particle Physics, String Theory and some Ramanujan's equations.

by

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In this research thesis, we describe the mathematical connections between some expressions regarding "An attempt to a β rays theory", some sectors of Particle Physics, String Theory and some Ramanujan's equations. REVISITED VERSION 30.10.2020

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Mathematical connections between some expressions regarding "Automorphic Forms and Fermion Masses", Open Strings, three-loop form factor in N = 4 super Yang-Mills and some Ramanujan's equations. II

by

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In this research thesis (part II), we describe the mathematical connections between some expressions regarding "Automorphic Forms and Fermion Masses", Open Strings, three-loop form factor in N = 4 super Yang-Mills and some Ramanujan's equations.

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... of the golden ratio 1.618033988749... Alternate forms: Minimal polynomial: Expanded form: 22 From: **Group Theory from "Quarks" at the Ends of Strings** Neil Marcus - Department of Physics and Lawrence Berkeley Laboratory, University of California, Ber...

A new orientifold of C2/ZN and six-dimensional RG fixed points

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Uranga, Angel M.

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The very basics of higher-spin theory

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Mathematical connections between some expressions regarding "The "Parity" Anomaly on an Unorientable Manifold", some sectors of String Theory and various Ramanujan's equations

by

Michele Nardelli

In this research thesis, we describe the mathematical connections between some expressions regarding "The "Parity" Anomaly on an Unorientable Manifold", some sectors of String Theory and various Ramanujan's equations. REVISITED DEFINITIVE VERSION 29.10.2020

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On Lagrangian formulations for arbitrary bosonic HS fields on Minkowski backgrounds

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On the new mathematical connections between some Ramanujan equations and some formulas concerning various sectors of String Theory and Particle Physics

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In this research thesis, we have analyzed various Ramanujan equations and described the new possible mathematical connections with some sectors of string theory and Particle Physics REVISITED AND DEFINITIVE VERSION 29.10.2020

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Unification of string dualities

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Sen, Ashoke

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Effective action of matter fields in four-dimensional string orientifolds

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Mathematical connections between some expressions regarding "Automorphic Forms and Fermion Masses", Supersymmetry and some Ramanujan's equations.

by

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In this research thesis, (part I) we describe the mathematical connections between some expressions regarding "Automorphic Forms and Fermion Masses", Supersymmetry and some Ramanujan's equations. v2 28.10.2020

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Mathematical connections between some expressions regarding "Automorphic Forms and Fermion Masses", Supersymmetry and some Ramanujan's equations.

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In this research thesis, we describe the mathematical connections between some expressions regarding "Automorphic Forms and Fermion Masses", Supersymmetry and some Ramanujan's equations.

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On the Ramanujan formulas: mathematical connections with some sectors of Particle physics, in particular on the masses of the dilaton, of the candidate glueball and of the two Pion mesons

by

Michele Nardelli

In this research thesis, we have analyzed various Ramanujan equations and described the new possible mathematical connections with some sectors of Particle physics, in particular on the masses of the dilaton, of the candidate glueball and of the two Pion mesons. v1 14.11.2019 REVISITED AND UPDATED VERSION 28.10.2020

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How Not to Establish the Non-renormalizability of Gravity

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...K. Landsteiner, E. Lopez and D. A. Lowe, JHEP 9802, 007 (1998) [arXiv:hep- th/9801002]. G. Pradisi, **A. Sagnotti** and Y. S. Stanev, Phys. Lett. B 354, 279 (1995) [arXiv:hep-th/9503207]. A. Sagnotti and Y. S. Stan...

Further mathematical connections between the Dark Matter candidate particles, some Ramanujan's Mock Theta Functions and the Physics of Black Holes. II

by

Michele Nardelli

In the present research thesis, we have obtained further interesting new possible mathematical connections concerning the mathematics of Ramanujan mock theta functions, some sectors of Particle Physics, concerning principally the Dark Matter candidate particles and the physics of black holes v1 06.09.2019 REVISITED AND UPDATED VERSION 27.10.2020

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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 106 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On the fundamental mathematical constants π, ϕ, $\zeta(2)$, $\zeta(6)$, $\zeta(8)$ and $\zeta(10)$: new interesting mathematical connections

by

Michele Nardelli

In this research thesis, we have described the new possible mathematical connections between the following fundamental mathematical constants π, ϕ, $\zeta(2)$, $\zeta(6)$, $\zeta(8)$ and $\zeta(10)$ v1 August 2019 REVISITED VERSION 27.10.2020

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** 66 J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: ...

Further mathematical connections between various Ramanujan formulas and some sectors of String Theory II

by

Michele Nardelli

In this research thesis (part II), we describe further mathematical connections between various Ramanujan formulas and some sectors of String Theory.

more ▾

...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** 45 J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: ...

Boundary Conditions and Predictions of Quantum Cosmology

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Further mathematical connections between various Ramanujan formulas and some sectors of String Theory

by

Michele Nardelli

In this research thesis, we describe the mathematical connections between various Ramanujan formulas analyzed by G. E. Andrews and some sectors of String Theory.
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...- Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 28 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

Ramanujan's mathematics applied to cosmology. Mathematical connections with various formulas of Higgs-dilaton cosmology and some sectors of String Theory

by

Michele Nardelli

In this research thesis, we describe the Ramanujan's mathematics applied to cosmology and the possible mathematical connections with various formulas of Higgs-dilaton cosmology and some sectors of String Theory
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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Non-supersymmetric gauge theories from D-branes in type 0 string theory

by

Blumenhagen, Ralph, Font, Anamaría, Lüst, Dieter

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On the mathematical connections between some expressions regarding Near- Extremal Black Holes, Supersymmetry and some Ramanujan's equations.

by

Michele Nardelli

In this research thesis, we describe the mathematical connections between some expressions regarding Near-Extremal Black Holes, Supersymmetry and some Ramanujan's equations REVISITED VERSION 26.10.2020
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Erratum: G2 generating technique for minimal D=5 supergravity and black rings [Phys. Rev. D 76, 104032 (2007)]

by

Bouchareb, Adel, Clément, Gérard, Chen, Chiang-Mei, Gal'tsov, Dmitri, Scherbluk, Nikolai, Wolf, Thomas

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Mathematical connections between various formulas of "Multiloop calculations in Covariant Superstring Theory", Supersymmetry and some Ramanujan's equations.

by

Michele Nardelli

In this research thesis, we describe the mathematical connections between various formulas of "Multiloop calculations in Covariant Superstring Theory", Supersymmetry and some Ramanujan's equations
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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On the various mathematical connections with the Ramanujan's numbers 1729, 728, the Ramanujan's class invariant, some sectors of Particle Physics and some formulae concerning the Supersymmetry

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting mathematical connections with the Ramanujan"s numbers 1728, 1729, 728, 729 and some sectors of Particle Physics and Supersymmetry v1 29.05.2019 REVISITED AND UPDATED VERSION 26.10.2020
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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 192 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

A remark on brane stabilization in brane world

by

Kakushadze, Zurab

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On the various Ramanujan's equations and the possible mathematical connections with some sectors of Particle Physics and String Theory

by

Michele Nardelli

In this research thesis, we describe various Ramanujan's equations and the possible mathematical connections with some sectors of Particle Physics and String Theory Early version 06.02.2019 - REVISITED VERSION 25.10.2020
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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 74 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On some equations concerning Fivebranes and Knots, Wilson Loops in Chern-Simons Theory, cusp anomaly and integrability from String theory . Mathematical connections with some sectors of Number Theory

by

Michele Nardelli

The present paper is a review, a thesis of some very important contributes of E. Witten, C. Beasley, R. Ricci, B. Basso et al. regarding various applications concerning the Jones polynomials, the Wilson loops and the cusp anomaly and integrability from string theory. In this work, in the Section 1, we have described some equations concerning the knot polynomials, the Chern-Simons from four dimensions, the D3-NS5 system with a theta-angle, the Wick rotation, the comparison to topological field theory, the Wilson loops, the localization and the boundary formula. We have described also some equations concerning electric-magnetic duality to N = 4 super Yang-Mills theory, the gravitational coupling and the framing anomaly for knots. Furthermore, we have described some equations concerning the gauge theory description, relation to Morse theory and the action. In the Section 2, we have described some equations concerning the applications of non-abelian localization to analyze the Chern-Simons path integral including Wilson loop insertions. In the Section 3, we have described some equations concerning the cusp anomaly and integrability from String theory and some equations concerning the cusp anomalous dimension in the transition regime from strong to weak coupling. In the Section 4, we have described also some equations concerning the "fractal" behaviour of the partition function. Also here, we have described some mathematical connections between various equation described in the paper and (i) the Ramanujan"s modular equations regarding the physical vibrations of the bosonic strings and the superstrings, thence the relationship with the Palumbo-Nardelli model, (ii) the

mathematical connections with the Ramanujan"s equations concerning π and, in conclusion, (iii) the mathematical connections with the aurea ratio v1 26.09.2011 - v2 21.03.2020 - REVISITED AND UPDATED VERSION 25.10.2020

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 78 For ξ=1 we obtain: ...

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A non-supersymmetric open-string theory and S-duality

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Bergman, Oren, Gaberdiel, Matthias R.

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Mathematical connections between various formulas of "Gauged supergravity vacua in string theory", Moduli Stabilization, Supersymmetry and some Ramanujan's equations.

by

Michele Nardelli

In this research thesis, we describe the mathematical connections between various formulas of "Gauged supergravity vacua in string theory", Moduli Stabilization, Supersymmetry and some Ramanujan's equations

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...Mathematical connections between various formulas of **"Gauged supergravity vacua in string theory"**, Moduli Stabilization, Supersymmetry and some Ramanujan's equations. Michele Nardelli1, Antonio Na...

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Anomalies and inflow on D-branes and O-planes

by

Scrucca, Claudio A., Serone, Marco

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Brane world effective actions for D-branes with fluxes

by

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On the links between some Ramanujan formulas, the golden ratio and various equations of several sectors of Black Hole Physics

by

Michele Nardelli

The purpose of this paper is to show the links between some Ramanujan formulas, the golden ratio and the mathematical connections with various equations of several sectors of Black Hole Physics REVISITED AND UPDATED VERSION 24.10.2020

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On some equations concerning the cusp anomalous dimension from a TBA equation and generalized quark-antiquark potential at weak and strong coupling; some equations concerning the complete 4-loop 4-point amplitude of N = 4 SYM theory. Mathematical connections with some sectors of Number Theory

by

Michele Nardelli

In the present paper in the Section 1, we have described some equations concerning the cusp anomalous dimension in the planar limit of N = 4 super Yang-Mills from a Thermodynamic Bethe Antsaz (TBA) system, the Luscher correction at strong coupling and the strong coupling expansion of the function F. In the Section 2, we have described some equations concerning a two-parameter family of Wilson loop operators in N = 4 supersymmetric Yang-Mills theory which interpolates smoothly between the 1/2 BPS line or circle, principally some equations concerning the one-loop determinants. In the Section 3, we have described some results and equations of the mathematician Ramanujan concerning some definite integrals and an infinite product and some equations concerning the development of derivatives of order n (n positive integer) of various trigonometric functions and divergent series. Thence, we have described some mathematical connections between some equations concerning this Section and the Sections 1 and 2. In the Section 4, we have described some equations concerning the relationship between Yang-Mills theory and gravity and, consequently, the complete four-loop four-point amplitude of N = 4 super-Yang-Mills theory including the nonplanar contributions regarding the gauge theory and the gravity amplitudes. v1 28.04.2013 - v2 09.05.2020 UPDATED VERSION 24.10.2020

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IIA ten-forms and the gauge algebras of maximal supergravity theories

by

Bergshoeff, Eric A, de Roo, Mees, Kerstan, Sven F, Ortín, Tomás, Riccioni, Fabio

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Mathematical connections between various formulas of "One-loop divergences of quantized Kaluza-Klein-Jordan-Thiry theory", Supersymmetry and some Ramanujan's equations. II

by

Michele Nardelli

In this research thesis (part II), we describe the mathematical connections between various formulas of "One-loop divergences of quantized Kaluza-Klein-Jordan-Thiry theory", Supersymmetry and some Ramanujan's equations

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On the theoretical framework concerning the motivations of the mathematical connections between various formulas of Ramanujan's mathematics and different parameters of Theoretical Physics and Cosmology. I-II

by

Michele Nardelli

In this research thesis, we have described a new possible Theory of Mathematical Connections between some Ramanujan's equations and Approximations to π, the equations of Inflationary Cosmology concerning the scalar field , the Inflaton mass, the Higgs boson mass and the Pion meson ± mass. We have analyzed a fundamental modular equation for an initial theoretical framework concerning the motivations of the mathematical connections that are obtained between various formulas of Ramanujan's mathematics and different parameters of Theoretical Physics and Cosmology: further observations. REVISITED AND UPDATED VERSION 23.10.2020

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Mathematical connections between various formulas of "One-loop divergences of quantized Kaluza-Klein-Jordan-Thiry theory", Supersymmetry and some Ramanujan's equations. II

by

Michele Nardelli

In this research thesis (part II), we describe the mathematical connections between various formulas of "One-loop divergences of quantized Kaluza-Klein-Jordan-Thiry theory", Supersymmetry and some Ramanujan's equations v2 REVISITED DEFINITIVE VERSION 24.10.2020

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Physical aspects of the space−time torsion

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Shapiro, I.L.

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On some equations concerning certain Ramanujan's trigonometrical sums and Some definite integrals. Possible mathematical connections with various formulas of String Theory/M-Theory.

by

Michele Nardelli

In this revisited research thesis, we describe several equations concerning certain Ramanujan's trigonometrical sums, some definite integrals and the possible mathematical connections with various formulas of String Theory/M-Theory. v2 DEFINITIVE VERSION 18.10.2020

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On the theoretical framework concerning the motivations of the mathematical connections between various formulas of Ramanujan's mathematics and different parameters of Theoretical Physics and Cosmology. I-II

by

Michele Nardelli

In this research thesis, in the part I have described a new possible Theory of Mathematical Connections between some Ramanujan's equations and Approximations to π, the equations of Inflationary Cosmology concerning the scalar field , the Inflaton mass, the Higgs boson mass and the Pion meson ± mass. In the part II, we have analyzed a fundamental modular equation for an initial theoretical framework concerning the motivations of the mathematical connections that are obtained between various formulas of Ramanujan's mathematics and different parameters of Theoretical Physics and Cosmology v3 UPDATED DEFINITIVE VERSION 23.10.2020

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GENERATING SMALL NUMBERS BY TUNNELING IN MULTI-THROAT COMPACTIFICATIONS

by

DIMOPOULOS, SAVAS, KACHRU, SHAMIT, KALOPER, NEMANJA, LAWRENCE, ALBION, SILVERSTEIN, EVA

A generic F-theory compactification containing many D3 branes develops multiple brane throats. The interaction of observers residing inside different throats involves tunneling suppression and as a result, is very weak. This suggests a new mechanism for generating small numbers in Nature. One application is to the hierarchy problem: large supersymmetry breaking near the unification scale inside a shallow throat causes TeV-scale SUSY-breaking inside the standard-model throat. Another application, inspired by nuclear-decay, is in designing naturally long-lived particles: a cold dark matter particle residing near the standard model brane decays to an approximate CFT-state of a longer throat within a Hubble time. This suggests that most of the mass of the universe today could consist of CFT-matter and may soften structure formation at sub-galactic scales. The tunneling calculation demonstrates that the coupling between two throats is dominated by higher dimensional modes and consequently is much larger than a naive application of holography might suggest.

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Quantum General Relativity

by

Ashtekar, Abhay

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Phenomenology of a three-family standardlike string model

by

Cvetič, Mirjam, Langacker, Paul, Shiu, Gary

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...t, Langacker, and Wang ,1; Phys. Rev. D 59, 115003 ˘1999˝. C. Angelantonj, M. Bianchi, G. Pradisi, **A. Sagnotti**, and Ya. S. Stanev, Phys. Lett. B 385, 96 ˘1996˝. M. Berkooz and R. G. Leigh, Nucl. Phys. B483, 187...

On some equations concerning Riemann's functions and Some definite integrals. Possible mathematical connections with various formulas of Conformal Invariance, Supersymmetry and String Theory.

by

Michele Nardelli

In this research thesis, we describe some Ramanujan expressions concerning Riemann's functions and Some definite integrals, describing the possible mathematical connections with various formulas of Conformal Invariance, Supersymmetry and String Theory. v2 UPDATED VERSION 23.10.2020

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Mathematical connections between various formulas of "Ultraviolet Behavior of Einstein Gravity", "One-loop divergences of quantized Kaluza-Klein-Jordan-Thiry theory", Supersymmetry and some Ramanujan's equations

by

Michele Nardelli

In this research thesis, we describe the mathematical connections between various formulas of "Ultraviolet Behavior of Einstein Gravity", "One-loop divergences of quantized Kaluza-Klein-Jordan-Thiry theory", Supersymmetry and some Ramanujan's equations

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String Theory thesis

by

Michele Nardelli

The purpose of this work is to describe the relationships found between Palumbo's model on the origin and evolution of the Universe and the string theory. After having described the bosonic and superstring actions, the connections found between these and the Palumbo model are highlighted. Furthermore, the connections found between the actions of Dirichlet branes, namely the D3 and D9-brane and the Palumbo model are highlighted. Also for some string actions inherent to the pre Big-Bang cosmological model, connections with the Palumbo model are highlighted. Finally, the relationships found between some soliton solutions in string field theory and some equations related to the Riemann zeta function are described. It is therefore highlighted that the connection with the Palumbo model is also possible for the latter. In the part II, further connections found between some sectors of string theory and Palumbo's model are highlighted. The connections found between Palumbo's model and: 1) the D-strings, 2) the gauge / gravity correspondence and the open / closed string duality, 3) the connection found between some equations of Durr's thesis "On a Gauge and Conformal Invariant Nonlinear Spinor Theory" and the Dirac-Born-Infeld actions for a D3-brane and those underlying the Het / T^4 - IIA / K^3 duality conjecture. Further connections found between other formulas related to the Riemann zeta function and some solutions in string cosmology and string field theory are also described. Finally, some differential equations are studied that describe configurations with bare singularities and the mathematical connections found between bare singularities and some theorems applied to solutions of boundary problems for differential equations concerning open sets. Of these differential equations, defined in open sets, the boundary conditions at the boundary of these sets have also been studied v1 07.11.2006 / v2 20.05.2010 UPDATE VERSION 22.10.2020

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On the possible mathematical connections between some Ramanujan's equations and various formulas concerning several sectors of Theoretical Physics and Cosmology

by

Michele Nardelli

In this paper we have described the possible mathematical connections between some Ramanujan's equations and various formulas concerning several sectors of Theoretical Physics and Cosmology . REVISITED DEFINITIVE VERSION 21.10.2020

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On a Ramanujan expression: mathematical connections with ϕ and various formulas concerning Modified Gravity Theory and some sectors of String Theory

by

Michele Nardelli

In this paper we have described a Ramanujan formula and obtained some mathematical connections with ϕ and various equations concerning Modified Gravity Theory and some sectors of String Theory REVISITED AND DEFINITIVE VERSION 21.10.2020

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On the Ramanujan's Mock ϑ-functions of his last letter: mathematical connections with some expressions concerning the mass of some particles, the Black Hole entropy and the hypothetical mass of Dark Matter particles. II

by

Michele Nardelli

In this research paper we have obtained some interesting mathematical connections between the Mock Theta functions of the Ramanujan's last letter and some expressions concerning the mass of some particles, the black hole entropy and the hypothetical mass of Dark Matter particles REVISITED DEFINITIVE VERSION 21.10.2020

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Instanton effects in string cosmology

by

Behrndt, K

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On some equations concerning Riemann's functions and Some definite integrals. Possible mathematical connections with various formulas of String Theory/M- Theory. IV

by

Michele Nardelli

In this research thesis (part IV), we describe some expressions for Riemann's functions and Some definite integrals, describing the possible mathematical connections with various formulas of String Theory/M-Theory.

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On the possible mathematical connections between various Ramanujan's equations and some sectors of Particle Physics, String Theory and Physics of Black Holes

by

Michele Nardelli

In this research paper, we have described and analyzed the possible mathematical connections between various Ramanujan's equations and some sectors of Particle Physics (rest mass of meson f0(1710), mass of proton, electric charge of positron, mass of Higgs boson), String Theory and Physics of Black Holes (entropy) REVISITED VERSION 20.10.2020

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On some Ramanujan's trigonometrical sums and some definite integrals. Possible mathematical connections with various equations of String Theory/M- Theory. III

by

Michele Nardelli

In this research thesis (part III), we describe some equations concerning certain Ramanujan's trigonometrical sums and Some definite integrals, describing the possible mathematical connections with various formulas of String Theory/M-Theory.

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Refracted-ray scanning (refracted near-field scanning) for measuring index profiles of optical fibers

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Young, M

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...dielectric constant coefficients to sixth order, IEEE [28] Daino, B. optical Piazzola, S., and **Sagnotti , , A**., J. Quant. Spatial Elect. QE9:1114-1118 (1973). coherence and index-profiling in fibers, Opt...

On the mathematical connections between some formulas concerning Ramanujan Modular Forms, ϕ, $\zeta(2)$ and various topics and parameters of String Theory and Particle Physics

by

Michele Nardelli

In this paper we describe and analyze the mathematical connections between some formulas concerning Ramanujan Modular Forms, ϕ, $\zeta(2)$ and various topics and parameters of String Theory and Particle Physics. Revisited version 19.10.2020

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On the possible mathematical connections between some equations of various sectors concerning the D-Branes and some Ramanujan's modular equations and approximations to π

by

Michele Nardelli

In this research thesis, we have described some new mathematical connections between some equations of various sectors concerning the D-Branes and some Ramanujan's modular equations and approximations to π. REVISITED VERSION 19.10.2020

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Formation of spherical D2-brane from multiple D0-branes

by

Hikida, Yasuaki, Nozaki, Masatoshi, Sugawara, Yuji

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On some formulas concerning the Ramanujan's Master Theorem: new possible mathematical developments and mathematical connections with the mass value of candidate "glueball" f0(1710) meson, Dark Photons and the Black Hole entropies

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting new possible mathematical results concerning some equations of the Ramanujan's Master Theorem. Furthermore, we have described new possible mathematical connections with the mass value of candidate "glueball" f0(1710) meson, Dark Photons and with the Black Hole entropies. v1 03.07.2019 REVISITED VERSION 18.10.2020

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On some equations concerning certain Ramanujan's trigonometrical sums and Some definite integrals. Possible mathematical connections with various formulas of String Theory/M-Theory

by

Michele Nardelli

In this research thesis, we describe several equations concerning certain Ramanujan's trigonometrical sums, some definite integrals and the possible mathematical connections with various formulas of String Theory/M-Theory. v3 UPDATED VERSION Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/On%20some%20equations%20Ramanujan-strings%20defin..pdf

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AdS Twistors for Higher Spin Theory

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Cederwall, M.

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Stretched strings and worldsheets with a handle

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Perturbative relations between gravity and gauge theory

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On various equations concerning COSMOLOGICAL APPLICATIONS OF RAMANUJAN'S MATHEMATICS: mathematical connections with some parameters of Ramanujan formulas.

by

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In this research thesis, we describe the COSMOLOGICAL APPLICATIONS OF RAMANUJAN'S MATHEMATICS and the possible mathematical connections with various parameters of Ramanujan formulas.

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Observations on the partial breaking of N=2 rigid supersymmetry

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Andrianopoli, Laura, D'Auria, Riccardo, Ferrara, Sergio, Trigiante, Mario

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Free-field realization of boundary states and boundary correlation functions of minimal models

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An orientifold of Type-IIB theory on K3

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DWSB for heterotic flux compactifications

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...ed issues. Acknowledgments It is a pleasure to thank P. G. C´amara, M. Haack, S. Groot Nibbelink, **A. Sagnotti**, M. Trapletti, D. Tsimpis and P. K. S. Vaudrevange for useful discussions. This work is supported i...

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Open strings and D-branes in WZNW models

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Discrete Wilson lines in type IIB orientifolds: a systematic exploration for orientifold

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Higgs boson mass from orbifold GUTs with split supersymmetry

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On the construction of gauge theories from non critical type 0 strings

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On some Ramanujan's equations of Manuscript Book 2. Further new possible mathematical connections with some parameters of Particle Physics and Cosmology. V

by

Michele Nardelli

In this research thesis, we continue to analyze and deepen further Ramanujan's equations of Manuscript Book 2 and describe new possible mathematical connections with some parameters of Particle Physics and Cosmology. v1 10.01.2020 UPDATED VERSION 16.10.2020

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On further equations concerning "Zero temperature spectra of mesons and glueballs" and Two Dimensional Conformal Field Theory. Possible mathematical connections with various parameters of Ramanujan formulas.

by

Michele Nardelli

In this research thesis (part II), we describe some equations concerning "Zero temperature spectra of mesons and glueballs" and Two Dimensional Conformal Field Theory. We obtain possible mathematical connections with various parameters of Ramanujan formulas. Part II 16.10.2020

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On various equations concerning "TWIST SYMMETRY AND OPEN-STRING WILSON LINES". Possible mathematical connections with various parameters of Ramanujan formulas.

by

Michele Nardelli

In this research thesis, we describe some equations concerning "TWIST SYMMETRY AND OPEN-STRING WILSON LINES". We obtain several mathematical connections with various parameters of Ramanujan formulas. Below the link of two papers connected with the topic regarding the above thesis

https://www.academia.edu/44315580/On_two_equations_concerning_certain_Ramanujans_trigonometrical_sums_Possible_mathematical_connections_with_various_formula

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Francia, Dario

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...discussed in a forthcoming paper.25) Acknowledgements I am grateful to A. Campoleoni, J. Mourad and **A. Sagnotti** for collaboration on several topics discussed in this review, and to X. Bekaert, T. Erler and M. Sc...

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On various Ramanujan's equations of Manuscript Book 2. New possible mathematical connections with some parameters of Particle Physics and Black Holes Physics. IV

by

Michele Nardelli

In this research thesis, we continue to analyze and deepen further Ramanujan's equations of Manuscript Book 2 and described new possible mathematical connections with some parameters of Particle Physics and Black Holes Physics. v1 09.01.2020 UPDATED VERSION 15.10.2020

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On various Ramanujan's equations of Manuscript Book 1 and some formulas concerning the Eisenstein series: new possible mathematical connections with some parameters of Particle Physics and Cosmology. III

by

Michele Nardelli

In this research thesis, we continue to analyze and deepen further Ramanujan's equations of Manuscript Book 1 and some formulas concerning the Eisenstein series and describe new possible mathematical connections with some parameters of Particle Physics and Cosmology. v1 08.01.2020 UPDATED VERSION 15.10.2020 Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan%2072b.pdf

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On some equations concerning M-Theory, in particular M-Branes/D-Branes: new mathematical connections with various parameters of Ramanujan formulas.

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In this research thesis we describe some equations concerning M-Theory, in particular M-Branes/D-Branes and obtain new mathematical connections with various parameters of Ramanujan formulas.

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New mathematical connections between various solutions of Ramanujan's equations, approximations to π and some parameters of Particle Physics (Yukawa's Pion) and Cosmology (value of Cosmological Constant). XV

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described further possible mathematical connections with some parameters of Particle Physics (Yukawa's Pion) and Cosmology, principally the value of Cosmological Constant. v1 24.12.2019 UPDATED VERSION 14.10.2020 Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan%2064b.pdf

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On some equations concerning various sectors of String Theory / M-theory: possible mathematical connections with various parameters of Ramanujan's mathematics

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In this research thesis we describe some equations concerning various sectors of String Theory / M-Theory: possible mathematical connections with various parameters of Ramanujan's mathematics Below another link of this paper http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Witten-Ramanujan.pdf

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On some equations concerning Ramanujan's last letter to Hardy. Possible mathematical connections with various sectors of Particle Physics and String Theory.

by

Michele Nardelli

In this research thesis we describe some equations concerning Ramanujan's last letter to Hardy. Possible mathematical connections with various sectors of Particle Physics and String Theory. early version - 07.08.2019 DEFINITIVE VERSION 13.10.2020 Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Hardy-Ramanujan%20and%20SUSY.pdf

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Generalization of the Yang−Mills theory

by

Savvidy, G.

We suggest an extension of the gauge principle which includes tensor gauge fields. In this extension of the Yang−Mills theory the vector gauge boson becomes a member of a bigger family of gauge bosons of arbitrary large integer spins. The proposed extension is essentially based on the extension of the Poincaré algebra and the existence of an appropriate transversal representations. The invariant Lagrangian is expressed in terms of new higher-rank field strength tensors. It does not contain higher derivatives of tensor gauge fields and all interactions take place through three- and four-particle exchanges with a dimensionless coupling constant. We calculated the scattering amplitudes of non-Abelian tensor gauge bosons at tree level, as well as their one-loop contribution into the Callan−Symanzik beta function. This contribution is negative and corresponds to the asymptotically free theory. Considering the contribution of tensorgluons of all spins into the beta function we found that it is leading to the theory which is conformally invariant at very high energies. The proposed extension may lead to a natural inclusion of the standard theory of fundamental forces into a larger theory in which vector gauge bosons, leptons and quarks represent a low-spin subgroup. We consider a possibility that inside the proton and, more generally, inside hadrons there are additional partons — tensorgluons, which can carry a part of the proton momentum. The extension of QCD influences the unification scale at which the coupling constants of the Standard Model merge, shifting its value to lower energies.

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Ramanujan and Hardy's mathematics: New possible mathematical connections with some sectors of Particle Physics and a possible theoretical value of Dark Matter mass

by

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In this research thesis, we have described some new mathematical connections between Hardy and Ramanujan mathematics and some sectors of Particle Physics and a possible theoretical value of Dark Matter mass v1 28.10.2019 UPDATED VERSION 13.10.2020 Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Dark%20Matter%20and%20Ramanujan%20and%20Hardy%20math.pdf and the link of a work connected with this topic: https://www.academia.edu/44288831/On_some_equations_concerning_Ramanujans_last_letter_to_Hardy_Possible_mathematical_connections_with_various_sectors_of_Par

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On some equations concerning "Zero temperature spectra of mesons and glueballs". Possible mathematical connections with various parameters of Ramanujan formulas.

by

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Квантовая космология материи нескольких скалярных полей: некоторые точные решения

by

Андрианов, Александр Андреевич, Andrianov, Aleksandr Andreevich, Новиков, Олег Олегович, Novikov, Oleg Olegovich, Лань, Чэнь, Lan, Chen

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Anomaly cancelations in orientifolds with quantized B-flux

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A new possible Theory of Mathematical Connections between some Ramanujan's equations and Approximations to π, the equations of Inflationary Cosmology concerning the scalar field Phi , the Inflaton mass, the Higgs boson mass and the Pion meson mass

by

Michele Nardelli

In this research thesis, we have described a new possible Theory of Mathematical Connections between some Ramanujan's equations and Approximations to π, the equations of Inflationary Cosmology concerning the scalar field Phi , the Inflaton mass, the Higgs boson mass and the Pion meson mass v3 UPDATED VERSION another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan%2055c.pdf

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D Branes from Liouville Strings

by

Ellis, John, Mavromatos, N. E., Nanopoulos, D. V.

We develop quantization aspects of our Liouville approach to noncritical strings, proposing a path-integral formulation of a second quantization of string theory, that incorporates naturally the couplings of string sources to background fields. Such couplings are characteristic of macroscopic string solutions and/or D-brane theories. Resummation over world-sheet genera in the presence of stringy (σ-model) soliton backgrounds, and recoil effects associated with logarithmic operators on the world sheet, play a crucial role in inducing such sources as well-defined renormalization-group counterterms. Using our Liouville renormalization group approach, we derive the appropriate second-order equation of motion for the D brane. We discuss within this approach the appearance of open strings, whose ends carry nontrivial Chan−Paton-like quantum numbers related to the W∞ charges of two-dimensional string black holes.

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On the possible mathematical developments of some Orientifolds Equations. Possible connections with various parameters of Ramanujan formulas.

by

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In this research thesis we describe the possible mathematical developments of some Orientifolds Equations and obtain some connections with various parameters of Ramanujan formulas. Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan-Orientifolds.pdf

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...ous equations was carried out according an our possible logical and original interpretation 2 From: **Open Descendants of Z2 × Z2 Freely-Acting Orbifolds** I. Antoniadis, G. D'Appollonio, E. Dudas and A. Sagnotti - arXiv:hep-th/9907184v1 25 Jul 1999 Now, ...

On the possible mathematical developments of some equations concerning Brane Supersymmetry Breaking and AdS Vacua . Possible connections with various parameters of Ramanujan formulas.

by

Michele Nardelli

In this paper we describe the possible mathematical developments of some equations concerning Brane Supersymmetry Breaking and AdS Vacua and obtain some new connections with various parameters of Ramanujan formulas. Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Brane%20SUSY%20Breaking-AdS%20Vacua.pdf

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On some possible mathematical connections between various equations concerning the Mock Modularity closely related to N = 4 super Yang-Mills, ζ(2) and some parameters of Particle Physics.

by

Michele Nardelli

In this paper we have described some possible mathematical connections between various equations concerning the Mock Modularity closely related to N = 4 super Yang-Mills, , ζ(2) and some parameters of Particle Physics. v1 05.05.2020 - UPDATED VERSION 19.08.2020 - EXTENDED VERSION 12.10.2020 See also below link: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Mock%20modularity%202.pdf

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Superembedding approach to Dp-branes, M-branes and multiple D(0)-brane systems

by

I. A. Bandos

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Non-canonical gauge coupling unification in high-scale supersymmetry breaking

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Type I strings with F- and B-flux

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On the analysis of some equations concerning N = 5 Supergravity at Four Loops. Possible mathematical connections with various parameters of Ramanujan formulas. III

by

Michele Nardelli

In this research thesis (part III), we have analyzed some equations concerning N = 5 Supergravity at Four Loops. We describe the possible mathematical connections with various parameters of Ramanujan formulas v2 11.10.2020 see also below link: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan%20and%20supergravity.pdf

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The Non-Euclidean Hydrodynamic Klein−Gordon Equation with Perturbative Self-Interacting Field

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On the analysis of some equations concerning N = 5 Supergravity at Four Loops. Possible mathematical connections with various parameters of Ramanujan formulas. II

by

Michele Nardelli

In this research thesis (part III), we have analyzed some equations concerning N = 5 Supergravity at Four Loops. We describe the possible mathematical connections with various parameters of Ramanujan formulas Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan%20and%20supergravity.pdf

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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 117 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Gravitational duality, branes and charges

by

C.M. Hull

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On the analysis of some equations of Gauss-Bonnet cosmology considering a spatially flat Friedman-Robertson-Walker metric. Possible mathematical connections with some sectors of String Theory and various parameters of Ramanujan formulas.

by

Michele Nardelli

In this research thesis, we have analyzed some equations of Gauss-Bonnet cosmology considering a spatially flat Friedman-Robertson-Walker metric. We describe the possible mathematical connections with some sectors of String Theory and various parameters of Ramanujan formulas Below, another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan%2C%20Cosmology%20and%20Strings.pdf

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 53 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

A class of non-supersymmetric open string vacua

by

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...310001. [2] C. Angelantonj and I. Antoniadis, arXiv:hep-th/0307254. [3] I. Antoniadis, E. Dudas and **A. Sagnotti**, Nucl. Phys. B 544 (1999) 469 [arXiv:hep-th/9807011]. I. Antoniadis, G. D'Appollonio, E. Dudas and...

On some new mathematical connections between various equations of the f(T) teleparallel gravity and cosmology, some sectors of String Theory, the Rogers-Ramanujan continued fractions and the Ramanujan's mock theta functions. II

by

Michele Nardelli

In this research thesis, we have described the new possible mathematical connections between some equations of various topics concerning the f(T) teleparallel gravity and cosmology, some sectors of String Theory, the Rogers-Ramanujan continued fractions and the Ramanujan's mock theta functions. UPDATED VERSION 11.10.2020 Below another link of this paper: http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan%20string%20SN.pdf

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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 103 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Mathematical connections beetween some Ramanujan equations ϕ, and various parameters of Quantum Geometry, String Theory and Particle Physics. IV

by

Michele Nardelli

In this paper, (part IV) we have described and analyzed some Ramanujan expressions. We have obtained several mathematical connections with ϕ and various parameters of Quantum Geometry, String Theory and Particle Physics. UPDATED VERSION 10.10.2020 Below another link of the paper http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Ramanujan%20194b.pdf This is the link of the part III of the paper https://www.academia.edu/44266833/On_some_Ramanujan_formulas_mathematical_connections_with_Phi_%CE%B6_2_and_several_parameters_of_Quantum_Geometry_Str

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...ous equations was carried out according an our possible logical and original interpretation 2 From: **Chiral Asymmetry in Four-Dimensional Open-String Vacua** C. Angelantonj, M. Bianchi, G. Pradisi, A. Sagnotti and Ya.S. Stanev - arXiv:hep- th/9606169v3 11 J...

Duality in string theory

by

Förste, Stefan, Louis, Jan

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Composite anomalies in supergravity

by

Marcus, Neil

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...) N. Marcus and J.H. Schwarz, Phys. Lett. 115B (1982) 111, I would like to thank Orlando Alvarez, **Augusto Sagnotti**, Jean ThierryMieg and Barton Zwiebaeh for many useful discussions. This work was supported in part...

On the analysis of asymptotic formulas for the density of string states. Possible mathematical connections with the Hardy-Ramanujan partition formula.

by

Michele Nardelli

In this research thesis, we have analyzed asymptotic formulas for the density of string states. We describe the possible mathematical connections with the Hardy-Ramanujan partition formula v3 - RIVISITED VERSION 09.10.2020

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AdS and Lifshitz black hole solutions in conformal gravity sourced with a scalar field

by

Felipe Herrera, Yerko Vásquez

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MSSM with soft SUSY breaking terms from D7-branes with fluxes

by

Lüst, D., Reffert, S., Stieberger, S.

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On the Ramanujan's mathematics (Rogers-Ramanujan continued fractions, Taxicab numbers and sixth order mock theta functions) applied to various parameters of Particle Physics: New possible mathematical connections

by

Michele Nardelli

In this research thesis, we have analyzed and deepened further Ramanujan expressions (Rogers-Ramanujan continued fractions, Taxicab numbers and sixth order mock theta functions) applied to various parameters of Particle Physics. We have therefore described new possible mathematical connections. v1 27.01.2020 UPDATED VERSION 09.10.2020 Below the link of the second part of the paper: https://www.academia.edu/44263306/On_the_Ramanujans_mathematics_Rogers_Ramanujan_continued_fractions_Hardy_Ramanujan_number_and_sixth_order_mock_theta_

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F-theory from Dirichlet 3-branes

by

Jatkar, Dileep P, Rama, S Kalyana

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Renormalization of quantum gravity coupled with matter in three dimensions

by

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D-branes in topological membranes

by

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D-branes and quotient singularities of Calabi-Yau four-folds

by

Kenji Mohri

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On some results of a Hyperbolic Equation and the possible mathematical connections with various sector of string theory and the Ramanujan's modular equations.

by

Michele Nardelli

In this research thesis, we have analyzed some results of a Hyperbolic Equation. We describe the possible mathematical connections with various sectors of string theory and the Ramanujan's modular equations. MATHEMATICS APPLIED TO SOME SECTORS OF STRING THEORY

more ▾

On the various mathematical applications and possible connections between Heterotic String Theory E8 x E8 and some sectors of Number Theory

by

Michele Nardelli

In the present paper we have described various mathematical applications and possible connections between Heterotic String Theory E8 x E8 and some sectors of Number Theory v1 June 2012 UPDATED VERSION 08.10.2020

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On some mathematical connections between the Cubic Equation and some sectors of String Theory and Relativistic Quantum Gravity

by

Michele Nardelli

In this paper we have described some interesting mathematical connections with various expressions of some sectors of String Theory and Relativistic Quantum Gravity, principally with the Palumbo-Nardelli model applied to the bosonic strings and the superstrings, and some parts of the theory of the Cubic Equation. In Appendix A, we have described the mathematical connections with some equations concerning the possible Relativistic Theory of Quantum Gravity. In conclusion In Appendix B, we have described a proof of Fermat's Last Theorem for the cubic equation case n =3 v1 November 2015 UPDATED VERSION 08.10.2020

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On some formulas of Manuscript Book 1 of Srinivasa Ramanujan: new possible mathematical connections with various parameters of Particle Physics and Cosmology

by

Michele Nardelli

In this research thesis, we have analyzed further formulas of Manuscript Book 1 of Srinivasa Ramanujan and described new possible mathematical connections with various parameters of Particle Physics and Cosmology (Cosmological Constant, some parameters of Dark Energy) v1 05.01.2020 UPDATED VERSION 08.10.2020

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Physics division annual report -- January--December 1997.

by

Lab., Argonne National, (US), IL

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On the analysis of some equations concerning N = 5 Supergravity at Four Loops. Possible mathematical connections with various parameters of Ramanujan formulas. II

by

Michele Nardelli

In this research thesis (part II), we have analyzed some equations concerning N = 5 Supergravity at Four Loops. We describe the possible mathematical connections with various parameters of Ramanujan formulas Below the link of the part III of this paper: https://www.academia.edu/44273544/On_the_analysis_of_some_equations_concerning_N_5_Supergravity_at_Four_Loops_Possible_mathematical_connections_with_various

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Supersymmetry breaking by dimensional reduction over coset spaces

by

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New grand unified models with intersecting D6-branes, neutrino masses, and flipped

by

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Model building and phenomenology of flux-induced supersymmetry breaking on D3-branes

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On the Ramanujan's equations applied to various sectors of Particle Physics and Cosmology: new possible mathematical connections. VI

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with some sectors of Particle Physics and Cosmology v1 01.12.2019 UPDATED VERSION 07.10.2020

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On some equations concerning the "Properties of expanding universes." Possible mathematical connections with various parameters of Ramanujan formulas.

by

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In this research thesis, we have analyzed some equations concerning the "Properties of expanding universes". We describe the possible mathematical connections with various parameters of Ramanujan formulas

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 97 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

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Massive Modes in Magnetized Brane Models

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Further Ramanujan's equations applied to various sectors of Particle Physics and Cosmology: some possible new mathematical connections. V

by

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In this research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with some sectors of Particle Physics and Cosmology v1 29.11.2019 UPDATED VERSION 06.10.2020

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...3 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For 183 ξ=1 we obtain:...

Further Ramanujan's equations applied to various sectors of Particle Physics and Cosmology: some possible new mathematical connections. IV

by

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In this research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with some sectors of Particle Physics and Cosmology v1 27.11.2019 UPDATED VERSION 06.10.2020

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On various equations concerning Open Strings. Possible mathematical connections with various parameters of some sectors of Number Theory, principally the Rogers-Ramanujan continued fractions.

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning Open Strings. We describe the possible mathematical connections with various parameters of Ramanujan's mathematics, principally the Rogers-Ramanujan continued fractions.

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 65 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On the analysis of some equations concerning Supersymmetry and Superfields. Possible mathematical connections with various parameters of Ramanujan formulas.

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning Supersymmetry and Superfields. We describe the possible mathematical connections with various parameters of Ramanujan's expressions

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...- Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 62 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

Standard model-like D-brane models and gauge couplings

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Yuta Hamada, Tatsuo Kobayashi, Shohei Uemura

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On some Ramanujan's equations applied to various sectors of Particle Physics and Cosmology: further possible new mathematical connections. III

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with some sectors of Particle Physics, principally the like-Higgs boson dilaton mass solutions, the ns spectral index, the Pion mesons mass, and Cosmology v1 24.11.2019 UPDATED VERSION 05.10.2020 Below the link concerning the part IV of this work: https://www.academia.edu/44238145/Further_Ramanujans_equations_applied_to_various_sectors_of_Particle_Physics_and_Cosmology_some_possible_new_mathematical_

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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 176 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Quartet unconstrained formulation for massive higher spin fields

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Buchbinder, I.L, Galajinsky, A.V

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...and to construct supersymmetric generalizations. Acknowledgements We thank D. Francia, V. Krykhtin, **A. Sagnotti** and M. Tsulaia for useful comments. The research was supported by RF Presidential grants MD-2590.20...

On Ramanujan's mathematics applied to various sectors of Theoretical Physics and Cosmology: further possible new mathematical connections. II

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan equations and described the new possible mathematical connections with various sectors of Theoretical Physics (principally like-Higgs boson dilaton mass solutions) and Cosmology v1 21.11.2019 UPDATED VERSION 04.10.2020

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CHIRAL TYPE II ORIENTIFOLD CONSTRUCTIONS AS M THEORY ON G2 HOLONOMY SPACES

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CVETIČ, MIRJAM, SHIU, GARY, URANGA, ANGEL M.

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On some new mathematical connections between Ramanujan's sum of two cubes, ζ(2), π, φ, Ramanujan's mock theta functions and various sectors of Theoretical Physics

by

Michele Nardelli

In this research thesis, we have described some new possible mathematical connections between various equations concerning the Ramanujan's sum of two cubes, ζ(2), π, φ, Ramanujan's mock theta functions and some sectors of Theoretical Physics v1 05.11.2019 UPDATED VERSION 04.10.2020

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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 109 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Structure constants for the D-series Virasoro minimal models

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Non-supersymmetric orientifolds of Gepner models

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Further mathematical connections between some equations of Dirichlet L- functions, some equations of D-Branes and the Rogers-Ramanujan continued fractions. III

by

Michele Nardelli

In this research thesis, (Part III) we have described some new mathematical connections between some equations of Dirichlet L-functions, some equations of D-Branes and Rogers-Ramanujan continued fractions. v1 12.10.2019 UPDATED VERSION 04.10.2020

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...3 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 121 For ξ=1 we obtain:...

On the possible mathematical connections between some equations of certain Dirichlet series, some equations of D-Branes and Ramanujan formula that link π, e and the Golden Ratio. II

by

Michele Nardelli

In this research thesis, (Part II) we have described some new mathematical connections between some equations of certain Dirichlet series, some equations of D-Branes and Rogers-Ramanujan formulas that link π, e and φ. v1 10.10.2019 UPDATED VERSION 04.10.2020 - PART II

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...3 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 315 For ξ=1 we obtain:...

Erratum: Getting just the supersymmetric standard model at intersecting branes on the Z6 orientifold [Phys. Rev. D 70, 126010 (2004)]

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Honecker, Gabriele, Ott, Tassilo

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D-cores: measuring collaboration of directed graphs based on degeneracy

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Giatsidis, Christos, Thilikos, Dimitrios M., Vazirgiannis, Michalis

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Non-linear supersymmetry and intersecting D-branes

by

Antoniadis, I., Tuckmantel, M.

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On the possible mathematical connections between some equations of certain Dirichlet series, some equations of D-Branes and Rogers-Ramanujan formulas that link π, e and the Golden Ratio. I

by

Michele Nardelli

In this research thesis, we have described some new mathematical connections between some equations of certain Dirichlet series, some equations of D-Branes and Rogers-Ramanujan formulas that link π, e and φ. v1 08.10.2019 UPDATED VERSION 03.10.2020 Below the link of Part II and Part III of the work

https://www.academia.edu/44224532/On_the_possible_mathematical_connections_between_some_equations_of_certain_Dirichlet_series_some_equations_of_D_Branes_and

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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 160 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Erratum: Inflatonless inflation

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On the analysis of some equations concerning Minimality of Balls in the Small Volume regime for a general Gamow type functional. Possible mathematical connections with various sectors of String Theory and Ramanujan formulas.

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning Minimality of Balls in the Small Volume regime for a general Gamow type functional. We describe the possible mathematical connections with various sectors of String Theory and Ramanujan formulas

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 46 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On the analysis of some equations concerning N=4 Yang-Mills, N=8 Supergravity and N = 5 Supergravity at Four Loops. Possible mathematical connections with various parameters of Ramanujan formulas

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning N=4 Yang-Mills-N=8 Supergravity and N = 5 Supergravity at Four Loops. We describe the possible mathematical connections with various parameters of Ramanujan formulas v2 03.10.2020

more ▾

...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 107 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

A note on the RG flow in () supergravity and applications to orbifold/orientifold compactification

by

Ghilencea, D.M., Ross, G.G.

This mention was found in a paper hosted outside of Academia.edu

...olchinski, E. Witten, Nuclear Physics B 460 (1996) 525. [3] C. Angelantonj, M. Bianchi, G. Pradisi, **A. Sagnotti** and Ya.S. Stanev, Physics Letters B385 (1996) 96, hep-th/9606169. [4] Z. Lalak, S. Lavignac, H.P. N...

On the classical stability of orientifold cosmologies

by

Cornalba, Lorenzo, Costa, Miguel S

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Vacuum structure in a chiral modification of pure supergravity

by

Ferrara, Sergio, Kehagias, Alex, Porrati, Massimo

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...String Theory, arXiv:1307.1910 [hep-th]. E. Dudas, 13 N. Kitazawa, S. P. Patil and A. Sagnotti, **CMB Imprints of a Pre-Inflationary Climbing Phase, JCAP 1205 (2012) 012**, [arXiv:1202.6630 [hep-th]]. A. Sagnotti, Brane SUSY Breaking and Inflation: Implications for Scala...

BRST LAGRANGIAN CONSTRUCTION FOR SPIN- FIELD IN EINSTEIN SPACE

by

BUCHBINDER, I. L., KRYKHTIN, V. A.

We explore a hidden possibility of BRST approach to higher spin field theory to obtain a consistent Lagrangian for massive spin-[Formula: see text] field in Einstein space of arbitrary d ≥ 3 dimension. Also, we prove that in the space under consideration the propagation of spin-[Formula: see text] field is hyperbolic and causal.

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...B (Proc. Suppl.) 102 (2001) 285; C. Burdik, A. Pashnev, M. Tsulaia, Mod.Phys.Lett. A16 (2001) 731; **A. Sagnotti**, M. Tsulaia, Nucl.Phys. B682 (2004) 83; A. Fotopoulos, K.L. Panigrahi, M. Tsulaia, Phys.Rev. D74 (2...

On some equations concerning the M-Theory and Topological strings and the Gopakumar- Vafa formula applied in some sectors of String Theory and Number Theory

by

Michele Nardelli

In the present paper we have described in the Chapter 1 some equations concerning the M-Theory, the Topological strings and the Topological Gauge Theory, in the Chapter 2 some equations concerning the Gopakumar-Vafa formula in Type IIA compactification to four dimensions on a Calabi-Yau manifold in terms of a counting of BPS states in M-theory. Finally, in the Chapter 3, we have described some possible methods of factorization and their various possible mathematical connections concerning the solutions for some equations regarding the above sectors of string theory The BPS states The Bogomol'nyi-Prasad-Sommerfield bound (named after Eugène Bogomolny, Manoj Prasad, and Charles Sommerfield) is a series of inequalities for solutions of partial differential equations depending on the homotopy class of the solution at infinity. This set of inequalities is very useful for solving soliton equations. Often, by insisting that the bound be satisfied (called "saturated"), one can come up with a simpler set of partial differential equations to solve, the Bogomol'nyi equations. Solutions saturating the bound are called BPS states and play an important role in field theory and string theory In theoretical physics, BPS states are massive representations of an extended supersymmetry algebra with mass equal to the supersymmetry central charge Z. Quantum mechanically, if the supersymmetry is not broken, the mass is exactly equal to the modulus of Z. Their importance arises as the multiplets are shorter than for generic massive representations, the states are stable and the mass formula is exact. A "BPS State" is a solution to the field equations that preserves some (but not all) of the supersymmetries of the field equations. Branes are BPS solutions of the supergravity equations under this definition. In the context of supersymmetric theories exist some configurations, called BPS states, preserving a number of supercharges that are of particular importance in the study of extended objects known as branes. The BPS states, that preserve a number of supersymmetries, acquire a greater importance in supergravity and M-theory solutions. v1 28.05.2015 UPDATED VERSION 02.10.2020

more ▾

...- Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 35 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

MSSM inflation and cosmological attractors

by

M. N. Dubinin, E. Yu. Petrova, E. O. Pozdeeva, S. Yu. Vernov

Inflationary scenarios motivated by the minimal supersymmetric standard model (MSSM) where five scalar fields are non-minimally coupled to gravity are considered. The potential of the model and the function of non-minimal coupling are polynomials of two Higgs doublet convolutions. We show that the use of the strong coupling

approximation allows to obtain inflationary parameters in the case when a combination of the four scalar fields plays a role of inflaton. Numerical calculations show that the cosmological evolution leads to inflationary scenarios fully compatible with observational data for different values of the MSSM mixing angle [Formula: see text].

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...ogical consequences of MSSM flat directions, Phys. Rept. 380 (2003) 99 [arXiv:hep-ph/0209244]. [39] **A. Sagnotti** and S. Ferrara, Supersymmetry and Inflation, PoS PLANCK 2015 (2015) 113 [arXiv:1509.01500 [hep-th]]...

On the Polchinski's equation concerning the exact renormalization group. Mathematical connections with some sectors of Ramanujan mathematics, String Theory and Particle Physics

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting new possible mathematical connections concerning the exact renormalization group and some sectors of Ramanujan mathematics, String Theory and Particle Physics v1 23.08.2019 UPDATED VERSION 02.10.2020

more ▾

...3 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 133 For ξ=1 we obtain:...

From Maxwell's Equations to the String Theory and Particle Physics: New mathematical connections with some sectors of Number Theory

by

Michele Nardelli

In this research thesis, we have described some new mathematical connections between Maxwell's Equations, some sectors of the String Theory and Particle Physics, and some sectors of Number Theory, precisely various Ramanujan's expressions and equations. v1 23.04.2019 UPDATED VERSION 02.10.2020

more ▾

... Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 212 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

A note on new sources of gaugino masses

by

Benakli, Karim

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On the new developments concerning the Mock theta functions of various order. Further mathematical connections with some sectors of Particle Physics and Black Hole Physics

by

Michele Nardelli

In the present research thesis, we have obtained further interesting mathematical connections with various Ramanujan's Mock theta functions of order 8, order 7, order 6, order 2 and some sectors of Particle Physics and Black Hole Physics. v1 20.08.2019 UPDATED VERSION 01.10.2020

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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 173 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

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by

Jair Eugênio dos Santos Lisboa

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by

Jair Eugênio dos Santos Lisboa

...ting Polyakov string. Nuclear Physics, B283, 551. 356 References Marcus, N., & Sagnotti, A. (1982). **Tree-level constraints on gauge groups for type I superstrings**. Physics Letters, B119, 97. Martinec, E. (1987). Conformal field theory on a (super-)Riemann surface...

On the Ramanujan Modular Equations, Class Invariants and Mock Theta Functions: new mathematical connections with some particle-like solutions, Black Holes entropies, ζ(2) and Golden Ratio

by

Michele Nardelli

In the present research thesis, we have obtained various interesting new possible mathematical connections between the Ramanujan Modular Equations, Class Invariants, the Mock Theta Functions, some particle-like solutions, Black Holes entropies, ζ(2) and Golden Ratio v1 14.09.2019 UPDATED VERSION 01.10.2020

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... Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 207 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

On the Rogers-Ramanujan identities and continued fractions: new possible mathematical developments and mathematical connections with the mass value of candidate "glueball" f0 (1710) meson, other particles and the Black Hole entropies

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting new possible mathematical results concerning the Rogers-Ramanujan identities and some continued fractions. Furthermore, we have described new possible mathematical connections with the mass value of candidate "glueball" f0(1710) meson, other particles and with the Black Hole entropies. v1 01.10.2019 UPDATED VERSION 01.10.2020

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... Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 214 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

New possible mathematical developments concerning ζ(2), ϕ, the Rogers- Ramanujan identity: Mathematical connections with some sectors of Particles Physics and the Black Hole physical parameters

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting new possible mathematical results concerning ζ(2), ϕ and the Rogers-Ramanujan identity. We obtain various mathematical connections with some sectors of Particles Physics and the Black Hole physical parameters. v1 26.09.2019 UPDATED VERSION 30.09.2020

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...3 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 207 For ξ=1 we obtain:...

On some equations concerning the three-point / four-point amplitudes of the symmetric tensors belonging to the first Regge trajectory of the open bosonic string. Possible mathematical connections with various parameters of Ramanujan's expressions II.

by

Michele Nardelli

In this research thesis (part II), we have analyzed some equations concerning the three-point / four-point amplitudes of the symmetric tensors belonging to the first Regge trajectory of the open bosonic string. We describe the possible mathematical connections with various parameters of Ramanujan's expressions Below the links of the parts I and of a related paper

https://www.academia.edu/44173606/On_some_equations_concerning_closed_string_tree_amplitudes_Veneziano_amplitude_and_the_three_four_point_amplitudes_of_the_s

https://www.academia.edu/44220321/On_the_analysis_of_some_equations_concerning_N_4_Yang_Mills_N_8_Supergravity_and_N_5_Supergravity_at_Four_Loops_Possible_r

more ▾

...ginal interpretation From: Nuclear Physics B 842 (2011) 299–361 - www.elsevier.com/locate/nuclphysb **String lessons for higher-spin interactions** - A. Sagnotti, M. Taronna 3 We consider: $\phi1$ = 0.989117352243; (see page...) $\phi2$ = 0.9568666373; $\phi3$ ...

STRING THEORY LANDSCAPE AND THE STANDARD MODEL OF PARTICLE PHYSICS

by

LÜST, DIETER

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On some mathematical connections between Phi , ζ(2), the Rogers-Ramanujan identities, the Holographic Proton Mass, some like-particle solutions and the Black Hole Entropies. II

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting new mathematical connections concerning Phi , ζ(2), the Rogers-Ramanujan identities, the Holographic Proton Mass, some like-particle solutions and the Black Hole Entropies. v2 UPDATED VERSION 29.09.2020

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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 206 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On some mathematical connections between ϕ, ζ(2), the Rogers-Ramanujan identities, the Holographic Proton Mass, some like-particle solutions and the Black Hole Entropies. II

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting new mathematical connections concerning ϕ, ζ(2), the Rogers-Ramanujan identities, the Holographic Proton Mass, some like-particle solutions and the Black Hole Entropies. See the paper also by the following file

http://xoom.virgilio.it/source_filemanager/na/ar/nardelli/michele%20and%20antonio%20papers/Witten%2C%20Phi%20and%20Rogers-Ramanujan%20B.pdf v1 05.10.2019 UPDATED VERSION 29.09.2020

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... Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 199 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

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A three-loop test of the dilatation operator in SYM

by

Eden, B., Jarczak, C., Sokatchev, E.

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...rgata", where he held a DFG postdoctoral fellowship. ES is grateful to this group and especially to **Augusto Sagnotti** for extending to him their warm hospitality at "Tor Vergata". We are deeply indebted to Yassen Stan...

On some equations concerning "On Classical Stability with Broken Supersymmetry". Possible mathematical connections with various parameters of Ramanujan's expressions. II

by

Michele Nardelli

In this research thesis (part II), we have analyzed some equations concerning "On Classical Stability with Broken Supersymmetry". We describe the possible mathematical connections with various parameters of Ramanujan's expressions

more ▾

...e less than the Hardy−Ramanujan number 1729 (taxicab number) Series representations: 43 44 45 From: **On higher spins and the tensionless limit of String Theory** A. Sagnotti and M. Tsulaia - arxiv hep-th/0311257v2 We have that: Result in 2D Cartesian coordinate...

On the hypothetical Dark Matter candidate particles: New mathematical connections with the physics of black holes and some developments of Ramanujan's Mock Theta Functions

by

Michele Nardelli

In the present research thesis, we have obtained various interesting new possible mathematical connections concerning some developments of Ramanujan's Mock Theta Functions, some sectors of Particle Physics, concerning principally the Dark Matter candidate particles and the physics of black holes. v1 05.09.2019 UPDATED VERSION 29.09.2020

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...3 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 179 For ξ=1 we obtain:...

TYPE-I VACUA FROM NON-GEOMETRIC ORBIFOLDS

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PRADISI, GIANFRANCO

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...0]. [5] M. B. Green and J. H. Schwarz, Phys. Lett. B149 (1984) 117. Phys. Lett. B151 (1985) 21. [6] **A. Sagnotti**, ROM2F-87-25 Talk presented at the Cargese Summer Institute on NonPerturbative Methods in Field The...

Linearized non-minimal higher curvature supergravity

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Farakos, Fotis, Kehagias, Alex, Koutrolikos, Konstantinos

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New mathematical connections between various solutions of Ramanujan's equations and some parameters of Particle Physics and Cosmology (value of Cosmological Constant). XIII

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described further possible mathematical connections with some parameters of Particle Physics and Cosmology, principally the value of Cosmological Constant v1 21.12.2019 UPDATED VERSION 28.09.2020

more ▾

...**3 = ϕ** and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 110 For ξ=1 we obtain:...

Ramanujan's mathematics applied to several topics of Theoretical Physics and Cosmology

by

Michele Nardelli

In this paper we have described several Ramanujan's formulas and obtained some mathematical connections with various equations concerning different sectors of Theoretical Physics and Cosmology v1 12.02.2019 UPDATED VERSION 28.09.2020

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...**3 = ϕ** and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

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An orientifold from F theory

by

Blum, Julie D., Zaffaroni, Alberto

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...earch was supported in part by NSF Grant PHY-9513835 and DOE DE-FG02-90ER40542. 6 References [1] **A. Sagnotti**, in Cargese '87, "Nonperturbative Quantum Field Theory", eds. G.Mack et al. (Pergamon Press, Oxford...

On some equations concerning "On Classical Stability with Broken Supersymmetry". Possible mathematical connections with various parameters of Ramanujan's expressions.

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning "On Classical Stability with Broken Supersymmetry". We describe the possible mathematical connections with various parameters of Ramanujan's expressions

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 83 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Induced gravity in orientifold models

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Kohlprath, Emmanuel

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On some Ramanujan integrals concerning Riemann's functions ξ(s) and Ξ(t): mathematical connections with ϕ, $\zeta(2)$ and various parameters of Particle Physics. II

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan integrals concerning Riemann's functions ξ(s) and Ξ(t). Furthermore, we have obtained several mathematical connections between ϕ, $\zeta(2)$ and various parameters of Particle Physics. v1 18.04.2020 UPDATED VERSION 27.09.2020

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 72 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On some Ramanujan definite integrals: mathematical connections with ϕ, $\zeta(2)$, and various parameters of Particle Physics

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan definite integrals. Furthermore, we have obtained several mathematical connections between ϕ, $\zeta(2)$ and various parameters of Particle Physics. v1 17.04.2020 UPDATED VERSION 27.09.2020

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 96 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

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Supersymmetric orientifolds in 6D with D-branes at angles

by

Blumenhagen, Ralph, Görlich, Lars, Körs, Boris

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...rstring and Extra Dimensions, Phys.Rev. D58 (1998) 106007, hep-th/9805157. A. Sagnotti, M. Bianchi, **On the Systematics of Open String Theories**, Phys. Lett. B247 (1990) 517. E.G. Gimon and J. Polchinski, Consistency Conditions for Orientifolds...

On some Ramanujan equations: mathematical connections with ϕ, ζ(2) , Monstrous Moonshine and various parameters of Particle Physics. II

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan equations. Furthermore, we have obtained several mathematical connections with ϕ, ζ(2), Monstrous Moonshine and various parameters of Particle Physics. v1 15.04.2020 UPDATED VERSION 27.09.2020

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...**3 = ϕ** and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 68 For ξ=1 we obtain: ...

On some Ramanujan equations: mathematical connections with ϕ, ζ(2) , Monstrous Moonshine and various parameters of Particle Physics.

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan equations. Furthermore, we have obtained several mathematical connections with ϕ, ζ(2), Monstrous Moonshine and various parameters of Particle Physics. v1 14.04.2020 UPDATED VERSION 27.09.2020

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...**3 = ϕ** and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 67 For ξ=1 we obtain: ...

On some integrals of theta-functions and incomplete elliptic integrals of the first kind: new possible mathematical connections with ϕ, $\zeta(2)$, and various parameters of Particle Physics

by

Michele Nardelli

In this paper we have described some Ramanujan's integrals of theta-functions and incomplete elliptic integrals of the first kind. Furthermore, we describe new possible mathematical connections with , ϕ, $\zeta(2)$, and various parameters of Particle Physics. v1 26.03.2020 UPDATED VERSION 27.09.2020

...3 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 105 For ξ=1 we obtain:...

On some equations concerning closed-string tree amplitudes, Veneziano amplitude and the three / four-point amplitudes of the symmetric tensors belonging to the first Regge trajectory of the open bosonic string. Possible mathematical connections with various parameters of Ramanujan's expressions

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning closed-string tree amplitudes, the three-point / four-point amplitudes of the symmetric tensors belonging to the first Regge trajectory of the open bosonic string and Veneziano amplitude. We describe the possible mathematical connections with various parameters of Ramanujan's expressions v2 - UPDATED VERSION 27.09.2020 Below the link of the second part of paper: https://www.academia.edu/44197886/On_some_equations_concerning_the_three_point_four_point_amplitudes_of_the_symmetric_tensors_belonging_to_the_first_Regge_traj

...inity Term, 2004) 78 From: Nuclear Physics B 842 (2011) 299−361 - www.elsevier.com/locate/nuclphysb **String lessons for higher-spin interactions** - A. Sagnotti, M. Taronna We have that: We consider 3, 4, 5, 6 String tension T = 1/(2πα′) 1/(((2Pi...

On some equations concerning closed-string tree amplitudes and Veneziano amplitude. Possible mathematical connections with various parameters of Ramanujan's expressions.

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning closed-string tree amplitudes and Veneziano amplitude. We describe the possible mathematical connections with various parameters of Ramanujan's expressions

...inity Term, 2004) 78 From: Nuclear Physics B 842 (2011) 299−361 - www.elsevier.com/locate/nuclphysb **String lessons for higher-spin interactions** - A. Sagnotti, M. Taronna We have that: We consider 3, 4, 5, 6 String tension T = 1/(2πα′) 1/(((2Pi...

On some Ramanujan equations: mathematical connections with , Particle Physics parameters and various expressions regarding Anti-de-Sitter charged black holes in f(T) gravity.

by

Michele Nardelli

In this paper we have described some Ramanujan equations and obtained several mathematical connections with , Particle Physics parameters and various expressions inherent Anti-de-Sitter charged black holes in f(T) gravity v1 12.03.2020 UPDATED VERSION 26.09.2020

...3 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 86 For ξ=1 we obtain: ...

Multi-instanton and string loop corrections in toroidal orbifold models

by

Cámara, Pablo G, Dudas, Emilian

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...erotic string theory, Nucl. Phys. B 499 (1997) 3 [hep-th/9702110]. [21] M. Bianchi and A. Sagnotti, **Twist symmetry and open string Wilson lines**, Nucl. Phys. B 361 (1991) 519. − 26 − JHEP08(2008)069 [10] S. Kachru, R. Kallosh, A. Linde and S...

Spinorial geometry, horizons and superconformal symmetry in six dimensions

by

Akyol, M, Papadopoulos, G

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...upergravity," Nucl. Phys. B 505 (1997) 497 [arXiv:hep-th/9703075]. [29] S. Ferrara, F. Riccioni and **A. Sagnotti**, "Tensor and vector multiplets in sixdimensional supergravity," Nucl. Phys. B 519 (1998) 115 [arXiv...

Heterotic Type I Duality in Four Dimensions in the Presence of Anomalous U(1)'s

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On the Ramanujan's mathematics applications: connections with ϕ and various equations regarding Teleparallel Equivalent of General Relativity. IV

by

Michele Nardelli

In this paper we have described some applications of Ramanujan's mathematics and obtained some connections with ϕ and various expressions inherent Teleparallel Equivalent of General Relativity v1 10.03.2020 UPDATED VERSION 25.09.2020

...3 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 114 For ξ=1 we obtain:...

On-shell methods in perturbative QCD

by

Bern, Zvi, Dixon, Lance J., Kosower, David A.

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CHIRAL N=1 4D ORIENTIFOLDS WITH D-BRANES AT ANGLES

by

HONECKER, GABRIELE

D6-branes intersecting at angles allow for phenomenologically appealing constructions of four-dimensional string theory vacua. While it is straightforward to obtain non-supersymmetric realizations of the standard model, supersymmetric and stable models with three generations and no exotic chiral matter require more involved orbifold constructions. The T6/($\mathbb{Z}$4×$\mathbb{Z}$2×Ω$\mathscr{R}$) case is discussed in detail. Other orbifolds including fractional D6-branes are treated briefly.

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Dual string vacua with N=2 supersymmetry in four dimensions

by

Lüst, Dieter

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On some equations concerning "The Geometry of String Perturbation Theory" . Possible mathematical connections with various parameters of Ramanujan's expressions.

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning "The Geometry of String Perturbation Theory". We describe the possible mathematical connections with various parameters of Ramanujan's expressions Below the link of the continuation of the work concerning this topic: https://www.academia.edu/44173156/On_some_equations_concerning_closed_string_tree_amplitudes_and_Veneziano_amplitude_Possible_mathematical_connections_with

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On some Ramanujan equations: mathematical connections with ϕ and various expressions concerning Teleparallel Equivalent of General Relativity and Modified Gravity Theory. III

by

Michele Nardelli

In this paper we have described some Ramanujan formulas and obtained some mathematical connections with ϕ and various equations concerning Teleparallel Equivalent of General Relativity and Modified Gravity Theory v1 09.03.2020 UPDATED VERSION 24.09.2020

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 73 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On the D-branes Standard-like Models

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S.E. Ennadifi

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The non-perturbative SO(32) heterotic string

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Hull, C.M

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On some Ramanujan equations: mathematical connections with ϕ and various expressions concerning Modified Gravity Theory. II

by

Michele Nardelli

In this paper we have described some Ramanujan formulas and obtained some mathematical connections with ϕ and various equations concerning Modified Gravity Theory v1 07.03.2020 UPDATED VERSION 24.09.2020

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On some equations concerning "Power-law Inflation" (Lucchin-Matarrese attractor solution). Possible mathematical connections with various parameters of Ramanujan's expressions.

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning "Power-law Inflation" (Lucchin-Matarrese attractor solution). We describe the possible mathematical connections with various parameters of Ramanujan's expressions

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 81 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On some Ramanujan equations: mathematical connections with various formulas concerning some topics of Cosmology and Black Holes/Wormholes Physics. VIII

by

Michele Nardelli

In this paper we have described several Ramanujan's formulas and obtained some mathematical connections with various equations concerning different arguments of Cosmology and Black Holes/Wormholes Physics. v1 27.02.2020 UPDATED VERSION 23.09.2020

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 52 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On a Ramanujan equation: mathematical connections with the golden ratio and various formulas concerning some arguments of Cosmology and Black Holes/Wormholes Physics. X

by

Michele Nardelli

In this paper we have described a Ramanujan formula and obtained some mathematical connections with the golden ratio and various equations concerning different sectors of Cosmology and Black Holes/Wormholes Physics. v1 02.03.2020 UPDATED VERSION 23.09.2020

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On some equations concerning Climbing Scalar in D dimensions. Possible mathematical connections with various parameters of Ramanujan's expressions

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning Climbing Scalar in D dimensions. We describe the possible mathematical connections with various parameters of Ramanujan's expressions v2 UPDATED VERSION 23.09.2020

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Mathematical connections between various Cosmological parameters and several Ramanujan's equations

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described other possible mathematical connections with various Cosmology parameters. Summary In this research thesis, we have analyzed the possible and new connections between different formulas of Ramanujan's mathematics and some formulas concerning the cosmology. In the course of the discussion we describe and highlight the connections between some developments of Ramanujan equations and particles type solutions such as the mass of the Higgs boson, and the masses of other baryons and mesons. Moreover solutions of Ramanujan equations, connected with the masses of the mesons (139.57 and 134.9766 MeV) have been described and highlighted. Furthermore, we have obtained also the values of some black hole entropies.
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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 183 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On some equations concerning Climbing Scalar in D dimensions. Possible mathematical connections with various parameters of Ramanujan's expressions.

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning Climbing Scalar in D dimensions. We describe the possible mathematical connections with various parameters of Ramanujan's expressions BELOW THE LINK OF THE UPDATED VERSIO

https://www.academia.edu/44146121/On_some_equations_concerning_Climbing_Scalar_in_D_dimensions_Possible_mathematical_connections_with_various_parameters_of

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F-theory and orientifolds

by

Sen, Ashoke

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DESPERATELY SEEKING THE STANDARD MODEL

by

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On some Ramanujan's functions: mathematical connections with various equations concerning some sectors of Particle Physics and Black Hole Physics. II

by

Michele Nardelli

The aim of this paper is to show the mathematical connections between some Ramanujan's functions and some expression of various topics of Particle Physics and Black Hole Physics v1 17.02.2020 UPDATED VERSION 22.09.2020

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...3 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 101 For ξ=1 we obtain:...

On some equations concerning "Supersymmetric and 2d analogs of the SYK Model". Possible mathematical connections with various parameters of Ramanujan's expressions

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning "Supersymmetric and 2d analogs of the SYK Model". We describe the possible mathematical connections with various parameters of Ramanujan's expressions

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Three-family unification in higher dimensional models

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On some Ramanujan formulas: mathematical connections with various equations concerning some sectors of Particle Physics and Black Hole Physics

by

Michele Nardelli

The purpose of this paper is to show how using certain mathematical values and / or constants from various Ramanujan expressions, we obtain some mathematical connections with the equations of various sectors of Particle Physics and Black Hole Physics v1 15.02.2020 UPDATED VERSION 21.09.2020

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Analyzing some Ramanujan formulas: mathematical connections with various equations concerning some sectors of Black Holes/Wormholes Physics and Brane Cosmology V

by

Michele Nardelli

The purpose of this paper is to show how using certain mathematical values and / or constants from some Ramanujan expressions, we obtain some mathematical connections with equations of various sectors of Black Holes/Wormholes Physics and Brane Cosmology v1 - 14.02.2020 UPDATED VERSION - 21.09.2020

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Helicity decoupling in the massless limit of massive tensor fields

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Jens Mund, Karl-Henning Rehren, Bert Schroer

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On some equations concerning "Bosonic Tensor Models at Large N and Small ϵ". Possible mathematical connections with various parameters of Ramanujan's expressions.

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning "Bosonic Tensor Models at Large N and Small ϵ". We describe the possible mathematical connections with various parameters of Ramanujan's expressions

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...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 147 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Kaluza-Klein supergravity on AdS 3 × S 3

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...ear future. Acknowledgements We wish to thank M. Berg and M. Trigiante for useful discussions, and **A. Sagnotti** for alerting us to refs. [39]. This work is partly supported by EU contract HPRN-CT-200000122 and H...

Open strings and electric fields in compact spaces

by

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Realistic Type IIB supersymmetric Minkowski flux vacua

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Compactifications of deformed conifolds, branes and the geometry of qubits

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On higher derivative terms in tachyon effective actions

by

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Analyzing some Ramanujan formulas: mathematical connections with various equations concerning some sectors of Black Holes and Wormholes Physics IV

by

Michele Nardelli

The purpose of this paper is to show how using certain mathematical values and / or constants from some Ramanujan expressions, we obtain some mathematical connections with equations of various sectors of Black Holes-Wormholes Physics and an almost equal value to the golden ratio v1 13.02.2020 UPDATED VERSION 20.09.2020

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On some equations concerning "Two-loop superstring five-point amplitudes". Possible mathematical connections with various parameters of Ramanujan's expressions. II

by

Michele Nardelli

In this research thesis, (part II) we have analyzed some equations concerning "Two-loop superstring five-point amplitudes". We describe the possible mathematical connections with various parameters of Ramanujan's expressions

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... Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 130 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

Analyzing two Ramanujan formulas: mathematical connections with various equations concerning some sectors of Black Holes ad Wormholes Physics III

by

Michele Nardelli

The purpose of this paper is to show how using certain mathematical values and / or constants from two Ramanujan expressions, we obtain some mathematical connections with equations of various sectors of Black Holes and Wormholes Physics v1 11.02.2020 UPDATED VERSION 19.09.2020

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... Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 119 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

Soft electroweak breaking from hard supersymmetry breaking

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On some equations concerning "Two-loop superstring five-point amplitudes". Possible mathematical connections with various parameters of Ramanujan's expressions. I

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning "Two-loop superstring five-point amplitudes". We describe the possible mathematical connections with various parameters of Ramanujan's expressions Below the link of the part II of this work

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Three- and Four-point correlators of excited bosonic twist fields

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...uge groups for type I superstrings, Phys. Lett. B 119, 97 (1982). 59 [4] M. Bianchi, A. Sagnotti, **On the systematics of open-string theories**, Phys. Lett. B 247, 517 (1990); A. Sagnotti, Some properties of open-string theories, hepth/9509080...

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...near future. Acknowledgments We thank E. Kiritsis, C. Kounnas, N. Obers, H. Partouche, G. Pradisi, **A. Sagnotti** and P. Vanhove for usefull conversations during various stages of the work, which was supported by...

Scales of string theory

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Bachas, C P

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On some equations concerning the R^4 threshold corrections in type IIB string theory and (p, q)-string instantons. Mathematical connections with various parameters of Ramanujan's expressions

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning the R^4 threshold corrections in type IIB string theory and (p, q)-string instantons. We describe the possible mathematical connections with various parameters of Ramanujan's expressions

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 59 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

String Theory, Unification and Quantum Gravity

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On the complementarity of F-theory, orientifolds, and heterotic strings

by

Berglund, Per, Gimon, Eric

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Analyzing some Ramanujan formulas: mathematical connections with various equations concerning some sectors of Black Hole Physics II

by

Michele Nardelli

The purpose of this paper is to show how using certain mathematical values and / or constants from the Ramanujan expressions, we obtain some mathematical connections with equations of various sectors of Black Hole Physics v1 17.02.2020 UPDATED VERSION 17.09.2020 Part II of the previous paper

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On some equations concerning the Heterotic Threshold Corrections. Mathematical connections with various parameters of Ramanujan's expressions

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning the Heterotic Threshold Corrections. We describe the possible mathematical connections with some parameters of Ramanujan's expressions

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 78 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Reconciling induced-gravity inflation in supergravity with thePlanck2013 BICEP2 results

by

C. Pallis

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Analyzing some Ramanujan formulas: mathematical connections with various sectors of Black Hole Physics

by

Michele Nardelli

The purpose of this paper is to show how using certain mathematical values and / or constants from various Ramanujan expressions, we obtain some mathematical connections with several sectors of Black Hole Physics v1 09.02.2020 UPDATED VERSION 16.09.2020 Below the link of the part II of this work: https://www.academia.edu/44109165/Analyzing_some_Ramanujan_formulas_mathematical_connections_with_various_equations_concerning_some_sectors_of_Black_Hole_

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On some equations concerning the "Black Hole in Three-Dimensional Spacetime" and D-branes. Mathematical connections with various parameters of Ramanujan's expressions

by

Michele Nardelli

In this research thesis, we have analyzed some equations concerning the "Black Hole in Three-Dimensional Spacetime" and D-branes. We describe the possible mathematical connections with some parameters of Ramanujan's expressions

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...$3 = \phi$ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 52 We have: For ξ=1 we obtain: ...

Супергравитация де Ситтера, взаимодействующая с материей

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Analyzing two Ramanujan equations: mathematical connections with various parameters of Particle Physics and Cosmology II

by

Michele Nardelli

The purpose of this paper is to show how using certain mathematical values and / or constants from two Ramanujan equations, some important parameters of Particle Physics and Cosmology are obtained. v1 06.02.2020 UPDATED VERSION 15.09.2020

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On some equations of the "Strings in AdS3 and the SL(2,R) WZW Model: Correlation Functions". Mathematical connections with various parameters of Ramanujan's expressions

by

Michele Nardelli

In this research thesis, we have analyzed some equations of the "Strings in AdS3 and the SL(2,R) WZW Model: Correlation Functions". We describe the possible mathematical connections with some parameters of Ramanujan's expressions

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Scalar potential and dyonic strings in 6D gauged supergravity

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...es of this work. We thank Gary Gibbons, Rahmi G¨ uven, Jim Liu, Hong Lu, H. Nishino, Chris Pope and **A. Sagnotti** for useful discussions. E.S. would like to thank the Abdus Salam International Center for Theoretic...

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Recombination of intersecting D-branes by local tachyon condensation

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Analyzing a Ramanujan equation: mathematical connections with various parameters of Particle Physics and Cosmology

by

Michele Nardelli

The purpose of this paper is to show how using certain mathematical values and / or constants from a Ramanujan equation, some important parameters of Particle Physics and Cosmology are obtained. v1 06.02.2020 UPDATED VERSION 14.09.2020

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Analyzing some equations of the "Partition functions of the Strings in AdS3 and the SL(2,R) WZW Model: Euclidean Black Hole". Mathematical connections with various parameters of Ramanujan's expressions

by

Michele Nardelli

In this research thesis, we have analyzed some equations of the Partition functions of the Strings in AdS3 and the SL(2,R) WZW Model: Euclidean Black Hole. We describe the possible mathematical connections with some parameters of Ramanujan's expressions

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ON OFF-SHELL BOSONIC STRING AMPLITUDES

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We give a simple prescription for computing, in the framework of the bosonic string theory, off-shell one-loop amplitudes with any number of external massless particles, for both the open and closed strings. We discuss their properties and, in particular, for the two-string one-loop amplitudes, we show their transversality.

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General Lagrangian formulation for higher spin fields with arbitrary index symmetry. 2. Fermionic fields

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Rainbow vacua of colored higher-spin (A)dS3 gravity

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...ts We thank Marc Henneaux, Jaewon Kim, Jihun Kim, Sasha Polyakov, Mikhail Vasiliev and, especially, **Augusto Sagnotti** for many useful discussions. SG and SJR acknowledge the APCTP Focus Program "Liouville, Integrabilit...

Analyzing some equations of the Partition function of the SL(2,C)/SU(2) model. Mathematical connections with various parameters of Ramanujan's expressions

by

Michele Nardelli

In this research thesis, we have analyzed some equations of the Partition function of the SL(2,C)/SU(2) model. We describe the possible mathematical connections with some parameters of Ramanujan's expressions

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 58 For ξ=1 we obtain: ...

On some Ramanujan's equations (Hardy-Ramanujan number and mock theta functions) linked to various parameters of Standard Model and Black Hole Physics: New possible mathematical connections. III

by

Michele Nardelli

In this research thesis, we have described and deepened further Ramanujan equations (Hardy-Ramanujan number and mock theta functions) linked to various parameters of Standard Model and Black Hole Physics. We have therefore obtained further possible mathematical connections. 13.09.2020 UPDATED VERSION - EXTENDED VERSION

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On higher spin interactions with matter

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On some Ramanujan's expressions (Hardy-Ramanujan number and mock theta functions) applied to various parameters of Particle Physics and Black Hole Physics: Further possible mathematical connections. II

by

Michele Nardelli

In this research thesis, we have analyzed and deepened further Ramanujan expressions (Hardy-Ramanujan number and mock theta functions) applied to various parameters of Particle Physics and Black Hole Physics. We have therefore described further possible mathematical connections. v1 30.01.2020 UPDATED VERSION 12.09.2020 Below the link of the Part III of this work:

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Analyzing an equation of the Spacetime Energy concerning the Strings in AdS3 and the SL(2,R) WZW Model. Mathematical connections with some parameters of Ramanujan Modular equations and approximations to π

by

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In this research thesis, we have analyzed an equation of the Spacetime Energy E concerning the Strings in AdS 3 and the SL(2,R) WZW Model. We describe the possible mathematical connections with some parameters of Ramanujan Modular equations and approximations to π v3 12.09.2020 see also below link

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On the Ramanujan's mathematics (Hardy-Ramanujan number and mock theta functions) applied to various parameters of Particle Physics and Black Hole Physics: New possible mathematical connections

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On various equations concerning Structure of Phenomenological Lagrangians and Supergravity Theory. Mathematical connections with some parameters of Ramanujan's Modular equations and approximations to π

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In this research thesis, we have described various equations concerning Superunification, Superspace, Grand Unification and Cosmology. We describe the possible mathematical connections with some parameters of Ramanujan's Modular equations and approximations to π

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On some Ramanujan formulas concerning Highly composite numbers: new possible mathematical connections with various parameters of Particle Physics, Dark Matter, Dark Energy and Cosmology III

by

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In this research thesis, we have analyzed further Ramanujan formulas inherent Highly composite numbers and described new possible mathematical connections with various parameters of Particle Physics, Dark Matter, Dark Energy and Cosmology v1 01.01.2020 UPDATED VERSION 11.09.2020

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On various equations concerning the Extremal Black Holes in Five Dimensional Supergravity and Open String. Mathematical connections with some parameters of Ramanujan's Mock Theta Functions, Modular equations and approximations to π

by

Michele Nardelli

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...1/6*5^3)^1/2]))-1))))^1/15 Input interpretation: Result: 1.643825...≈ ζ(2) = π2 6 = 1.644934 … From **Chiral Asymmetry in Four-Dimensional Open-String Vacua** - C. Angelantonj, M. Bianchi, G. Pradisi, A. Sagnotti and Ya.S. Stanev - arXiv:hep-th/9606169v3 11 ...

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Mathematical connections between the formula concerning the coefficients of the '5th order' Ramanujan's mock theta function, the mass of mesons in string model, various parameters of Particle Physics and Cosmology

by

Michele Nardelli

In this research thesis, we have described new possible mathematical connections between the formula concerning the coefficients of the '5th order' Ramanujan's mock theta function, the mass of mesons in string model, various parameters of Particle Physics and Cosmology. v1 31.12.2019 UPDATED VERSION 10-09-2020

...= ϕ and to the value of the following Rogers-Ramanujan continued fraction: 115 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

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Minimal unitary representation of SU(2,2) and its deformations as massless conformal fields and their supersymmetric extensions

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...like to acknowledge stimulating discussions with Juan Maldacena, Shiraz Minwalla, Mukund Rangamani, **Augusto Sagnotti** and Misha Vasiliev on the minrep of the 4D conformal group and thank the organizers of the 'Fundame...

On various equations concerning the "Duality Rotations for Interacting Fields". Mathematical connections with some parameters of Ramanujan's Modular equations and approximations to π

by

Michele Nardelli

In this research thesis, we have described various equations concerning the "Duality Rotations for Interacting Fields". We describe the possible mathematical connections with some parameters of Ramanujan's Modular equations and approximations to π

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On some parameters of Ramanujan's Modular equations and approximations to π: New possible mathematical connections with some equations concerning the Born-Infeld solution as an approximation to open-string solution and the Born-Infeld Theory. IV

by

Michele Nardelli

In this research thesis (part IV), we analyze various topics concerning Ramanujan Modular equations and approximations to. We describe new possible mathematical connections with some equations concerning Born-Infeld solution as an approximation to open-string solution and the Born-Infeld theory.

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 52 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

String-loop corrected magnetic black holes

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...authors (M.I.) would like to thank R. Kallosh for helpful correspondence, A. Marshakov, O. Kechkin, **A. Sagnotti** and I.Tyutin for remarks and discussion. The work of M.I. was partially supported by the RFFR grant...

On some Ramanujan formulas: new possible mathematical connections with various parameters of Particle Physics, Dark Matter, Dark Energy and Cosmology II

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with various parameters of Particle Physics, Dark Matter, Dark Energy and Cosmology v1 30.12.2019 - UPDATED VERSION 08.09.2020

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Analyzing various Ramanujan equations: mathematical connections with some Prime Numbers linked to the Supersingular Elliptic Curves, Phi, zeta(2) and to the mass of candidate glueball f0(1710) scalar meson.

by

Michele Nardelli

In this paper we have described and analyzed various Ramanujan equations. We have obtained several mathematical connections between some Prime Numbers linked to the Supersingular Elliptic Curves, Phi , zeta(2) and to the mass of candidate glueball f0(1710) scalar meson. v1 20.04.2020 - UPDATED VERSION 07.09.2020

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On some parameters of Ramanujan's Modular equations and approximations to π: New possible mathematical connections with some equations concerning Abelian and Non-abelian D-brane Effective Actions and Born-Infeld solution as an approximation to open-string solution. III

by

Michele Nardelli

In this research thesis (part III), we analyze various topics concerning Ramanujan Modular equations and approximations to π . We describe new possible mathematical connections with some equations concerning Born-Infeld solution as an approximation to open-string solution.

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Stable non-BPS states in string theory

by

Sen, Ashoke

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Supersymmetric Quantum Mechanics and Super-Lichnerowicz Algebras

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Hallowell, K., Waldron, A.

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...B 243, 378 (1990); Phys. Lett. B 567, 139 (2003). See also A. Sagnotti, E. Sezgin and P. Sundell, "**On higher spins with a strong Sp(2,R) condition,**" [arXiv:hep-th/0501156]. [17] S. Deser and A. Waldron, Phys. Rev. Lett. 87, 031601 (2001) [arXiv:h...

Melvin solution with a dilaton potential

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On the mathematical connections between some formulas concerning the M5- Brane and D-Brane Amplitudes in String Theory, Ramanujan expression for the Golden Ratio and the value of π^2 /6

by

Michele Nardelli

In this paper we describe and analyze the mathematical connections between some formulas concerning the the M5-Brane and D-Brane Amplitudes in String Theory, Ramanujan expression for the Golden Ratio and the value of π^2 /6.

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On some parameters of Ramanujan's Modular equations and approximations to π: New possible mathematical connections with some equations concerning Born-Infeld action and the model of partial N = 2 supersymmetry breaking by a dual D term. II

by

Michele Nardelli

In this research thesis (part II), we analyze various topics concerning Ramanujan Modular equations and approximations to. We describe new possible mathematical connections with some equations concerning Born-Infeld action, supersymmetry and Supersymmetry Breaking. v2 06.09.02 - UPDATED VERSION below the link of the part III of this research thesis

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D-BRANES IN THE BACKGROUND OF NS FIVEBRANES

by

ELITZUR, SHMUEL, GIVEON, AMIT, KUTASOV, DAVID, RABINOVICI, ELIEZER, SARKISSISAN, GOR

We study the dynamics of D-branes in the near-horizon geometry of NS fivebranes. This leads to a holographically dual description of the physics of D-branes ending on and/or intersecting NS5-branes. We use it to verify some properties of such D-branes which were deduced indirectly in the past, and discuss some instabilities of non-supersymmetric brane configurations. Our construction also describes vacua of Little String Theory which are dual to open plus closed string theory in asymptotically linear dilaton spacetimes.

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On some Ramanujan formulas: mathematical connections with Phi , zeta(2) and several parameters of String Theory and Particle Physics V.

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan expressions. We have obtained several mathematical connections with Phi, zeta(2) and various parameters of String Theory and Particle Physics. v1 24.04.2020 - UPDATED VERSION 05.09.2020

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...3 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 74 For ξ=1 we obtain: ...

Fermionic continuous spin gauge field in (A)dS space

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R.R. Metsaev

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On some parameters of Ramanujan's Modular equations and approximations to π: New possible mathematical connections with some equations concerning Born-Infeld Action, Supersymmetry and Supersymmetry Breaking.

by

Michele Nardelli

In this research thesis, we analyze various topics concerning Ramanujan Modular equations and approximations to π. We describe new possible mathematical connections with some equations concerning Born-Infeld action, supersymmetry and Supersymmetry Breaking. Below the link of the second part of this research thesis https://www.academia.edu/44026349/On_some_parameters_of_Ramanujan_s_Modular_equations_and_approximations_to_%CF%80_New_possible_mathematical_connectio

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Starobinsky-like inflation and neutrino masses in a no-scale SO(10) model

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John Ellis, Marcos A.G. Garcia, Natsumi Nagata, Dimitri V. Nanopoulos, Keith A. Olive

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Finitized Conformal Spectra of the Ising Model on the Klein Bottle and Möbius Strip

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An orientifold with fluxes and branes via T-duality

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On some parameters of Ramanujan's Modular equations and approximations to π: New possible mathematical connections with some equations concerning non-commutative open gauge string theory and Supersymmetry Breaking. II

by

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In this research thesis (part II), we analyze various topics concerning Ramanujan Modular equations and approximations to π. We describe new possible mathematical connections with some equations concerning non-commutative open gauge string theory and Supersymmetry Breaking.

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On some possible mathematical connections between various equations concerning the Riemann zeta function, the Riemann's Hypothesis, the Einstein's type Universes, φ, ζ(2) and some parameters of Particle Physics.

by

Michele Nardelli

In this paper we have described some possible mathematical connections between various equations concerning the Riemann zeta function, the Riemann's Hypothesis, the Einstein's type Universes, φ, ζ(2) and some parameters of Particle Physics. v1 03.05.2020 - UPDATED VERSION 03.09.2020

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On some parameters of Ramanujan's Modular equations and approximations to π: New possible mathematical connections with some equations concerning non-commutative open gauge string theory and Supersymmetry Breaking.

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On some parameters of Ramanujan's Modular equations and approximations to π: New possible mathematical connections with some equations concerning rotating black hole in New Massive Gravity and Supersymmetry Breaking. VIII

by

Michele Nardelli

In this research thesis (part VIII), we analyze various topics concerning Ramanujan Modular equations and approximations to π. We describe new possible mathematical connections with some equations concerning rotating black hole in New Massive Gravity and Supersymmetry Breaking

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A large N expansion for gravity

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On some Ramanujan equations: mathematical connections with various topics concerning Number Theory, and several parameters of Particle Physics. IV

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan equations. We have obtained several mathematical connections between some topics concerning Number Theory, , 2 and various parameters of Particle Physics. v1 22.04.2020 - UPDATED VERSION 01.09.2020

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On some parameters of Ramanujan's Modular equations and approximations to π : New possible mathematical connections with brane-worlds and Supersymmetry Breaking. VII

by

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In this research thesis (part VII), we analyze various topics concerning Ramanujan Modular equations and approximations to π. We describe new possible mathematical connections with Open Strings and Supersymmetry Breaking

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On some Ramanujan equations: mathematical connections with various topics concerning Prime Numbers Theory, Phi, zeta(2) and several parameters of Particle Physics. III

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan equations. We have obtained several mathematical connections between some topics concerning Prime Numbers Theory, Phi, zeta(2) and various parameters of Particle Physics. v1 21.04.2020 - UPDATED VERSION 31.08.2020

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Non-Supersymmetric Open String Vacua

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On some topics concerning Ramanujan Modular equations and approximations to : New possible mathematical connections with Open Strings and Supersymmetry Breaking. VI

by

Michele Nardelli

In this research thesis (part VI), we analyze various topics concerning Ramanujan Modular equations and approximations to. We describe new possible mathematical connections with Open Strings and Supersymmetry Breaking

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Divergences in Kaluza-Klein models and their string regularization

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Interdependence between integrable cosmological models with minimal and non-minimal coupling

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Kamenshchik, Alexander Yu, Pozdeeva, Ekaterina O, Tronconi, Alessandro, Venturi, Giovanni, Vernov, Sergey Yu

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On various Ramanujan's elliptic integrals, Einstein Dilaton Gauss-Bonnet Gravity and Black Hole Physics equations: mathematical connections with Phi, zeta(2) and some parameters of High Energy Physics. VII

by

Michele Nardelli

In this paper we have described several Ramanujan's elliptic integrals, Einstein Dilaton Gauss-Bonnet Gravity and Black Hole Physics equations. Furthermore, we have obtained mathematical connections with Phi, zeta(2), and some parameters of High Energy Physics. v1 05.04.2020 - UPDATED VERSION 30.08.2020

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Supersymmetric D3 brane and SYM actions in plane wave backgrounds

by

Metsaev, R.R.

...ions with E.A. Ivanov are happily acknowledged. Author would like to express his gratitude to Prof. **A. Sagnotti** for the hospitality at the University Tor Vergata where some part of this work was done. This work...

Further equations concerning the Ramanujan's "Collected Papers": New possible mathematical connections with Open Strings and Supersymmetry Breaking. V

by

Michele Nardelli

In this research thesis (part V), we analyze various equations concerning the Ramanujan's "Collected Papers". We describe new possible mathematical connections with Open Strings and Supersymmetry Breaking

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...mmetry") that has 24 "modes" corresponding to the physical vibrations of a bosonic string. 20 From: **Chiral Asymmetry in Four-Dimensional Open-String Vacua** - C. Angelantonj, M. Bianchi, G. Pradisi, A. Sagnotti and Ya.S. Stanev - arXiv:hep-th/9606169v3 11 ...

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No-scale inflation

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John Ellis, Marcos A G Garcia, Dimitri V Nanopoulos, Keith A Olive

.... Pallis, JCAP 1408, 057 (2014) [arXiv:1403.5486 [hep-ph]]; I. Antoniadis, E. Dudas, S. Ferrara and **A. Sagnotti**, Phys. Lett. B 733, 32 (2014) [arXiv:1403.3269 [hep-th]]; W. Buchmuller, E. Dudas, L. Heurtier and...

On the Ramanujan's Mock theta functions of tenth order: new possible mathematical developments and mathematical connections with some sectors of Particle Physics and Black Hole physics II

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting new possible mathematical developments concerning some Ramanujan's Mock theta functions of tenth order and mathematical connections with some sectors of Particle Physics and Black Hole physics v1 15.08.2019 - UPDATED VERSION 29.08.2020

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Sequestering by global symmetries in Calabi–Yau string models

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Closed and Open Conformal Field Theories and Their Anomalies

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D-BRANES IN THE BACKGROUND OF NS FIVEBRANES

by

ELITZUR, SHMUEL, GIVEON, AMIT, KUTASOV, DAVID, RABINOVICI, ELIEZER, SARKISSISAN, GOR

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Further equations concerning the Ramanujan's "Collected Papers" (Lost Notebook): New possible mathematical connections with Open Strings and Supersymmetry Breaking. IV

by

Michele Nardelli

In this research thesis (part IV), we analyze various equations concerning the Ramanujan's "Lost Notebook". We describe new possible mathematical connections with Open Strings and Supersymmetry Breaking Below, the link of part V of this work:

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On the Ramanujan Taxicab numbers: new mathematical connections with some equations of Einstein Dilaton Gauss-Bonnet Gravity

by

Michele Nardelli

In this paper we have described new mathematical connections between Ramanujan Taxicab numbers and some equations of Einstein Dilaton Gauss-Bonnet Gravity v1 03.04.2020 - UPDATED VERSION 28.08.2020

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On various equations concerning the Ramanujan's "Lost Notebook": New possible mathematical connections with Open Strings and Supersymmetry Breaking. III

by

Michele Nardelli

In this research thesis (part III), we analyze various equations concerning the Ramanujan's "Lost Notebook". We describe new possible mathematical connections with Open Strings and Supersymmetry Breaking

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On various equations concerning the Ramanujan's Collected Papers and the so called "Lost Notebook": New possible mathematical connections with some sectors of String Theory and Supersymmetry Breaking. II

by

Michele Nardelli

In this research thesis (part II), we analyze various equations concerning the Ramanujan's Collected Papers and the so called-Lost Notebook. We describe new possible mathematical connections with some sectors of String Theory and Supersymmetry Breaking

more ▾

...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 55 For ξ=1 we obtain: ...

On various equations concerning the Ramanujan's Collected Papers: New possible mathematical connections with some sectors of String Theory and Supersymmetry Breaking

by

Michele Nardelli

In this research thesis, we analyze various equations concerning the Ramanujan's Collected Papers. We describe new possible mathematical connections with some sectors of String Theory and Supersymmetry Breaking

more ▾

... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 69 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

HIGHLY CITED

String theory and the mapping of gravity into gauge theory

by

Bjerrum-Bohr, N.E.J.

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Stable D8-branes and tachyon condensation in type 0 open string theory

by

Eyras, Eduardo

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БРСТ-БВ-подход к безмассовым полям, адаптированный для АдС/КТП-соответствия

by

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...s. B, 762:3 (2007), 344–376, arXiv: hep-th/0608005. БРСТ-БВ-ПОДХОД К БЕЗМАССОВЫМ ПОЛЯМ 337 [23] **A. Sagnotti**, M. Tsulaia, Nucl. Phys. B, 682:1 (2004), 83–116, arXiv: hep-th/0311257; K. B. Alkalaev, M. Grigori...

On various equations inherent the works concerning JT Gravity, open strings on the Rindler Horizon, Gauge Theory and integrability and Topological Gravity. New mathematical connections with some sectors of Ramanujan's mathematics

by

Michele Nardelli

In this research paper we have obtained some interesting mathematical connections between various equations inherent the works concerning JT Gravity, open strings on the Rindler Horizon, Gauge Theory and integrability and Topological Gravity of Witten et al. and some sectors of Ramanujan's mathematics, principally the Mock Theta Functions and ζ(2) and some expressions concerning the mass of some particles. v1 - 10.08.2019 UPDATED VERSION 26.08.2020

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... Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 − 372 We have that: 313 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

On the mathematical connections between Phi, zeta(2), some Ramanujan equations and various parameters of String Theory Mathematics and Particle Physics.

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan equations. Furthermore, we have obtained several mathematical connections between Phi , zeta(2), and various parameters of String Theory Mathematics and Particle Physics. v1 17.04.2020 - UPDATED VERSION 26.08.2020

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 67 We have: For ξ=1 we obtain: ...

On some Ramanujan equations: mathematical connections between Phi, zeta(2) , Mock theta functions and various parameters of Particle Physics.

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan equations. Furthermore, we have obtained several mathematical connections between Phi , zeta(2) , Mock theta functions and various parameters of Particle Physics. v1 16.04.2020 - UPDATED VERSION 26.08.2020

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 63 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Higher Spin Theory - part one

by

Rakibur Rahman

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On some equations regarding various parameters of a particular 6d theory that gives 5d Born−Infeld theory and dual D-brane action. New possible mathematical connections with some sectors of Number Theory

by

Michele Nardelli

In this research thesis, we analyze some equations regarding various parameters concerning a particular 6d theory that gives 5d Born-Infeld theory and dual D-brane action. We have described the new possible mathematical connections with some sectors of Number Theory

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 69 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On some equations regarding various parameters concerning BPS soliton solutions of the D3-brane action and the D3-brane in AdS5 × S5 . Mathematical connections with some sectors of Number Theory

by

Michele Nardelli

In this research thesis, we analyze some equations regarding various parameters concerning BPS soliton solutions of the D3-brane action and the D3-brane in AdS5 × S5. Mathematical connections with some sectors of Number Theory UPDATED VERSION 25.08.2020

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 73 We have: For ξ=1 we obtain: ...

On some equations regarding various parameters concerning BPS soliton solutions of the D3-brane action and the D3-brane in AdS5 × S5 . Mathematical connections with some sectors of Number Theory

by

Michele Nardelli

In this research thesis, we analyze some equations regarding various parameters concerning BPS soliton solutions of the D3-brane action and the D3-brane in AdS5 × S5. Mathematical connections with some sectors of Number Theory

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 72 We have: For ξ=1 we obtain: ...

Effective Lagrangians in Pseudo-Supersymmetry

by

Klein, Matthias

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On some formulas of Manuscript Book 1 of Srinivasa Ramanujan: new possible mathematical connections with various parameters of Particle Physics and Cosmology part II

by

Michele Nardelli

In this research thesis, we have analyzed further formulas of Manuscript Book 1 of Srinivasa Ramanujan and described new possible mathematical connections with various parameters of Particle Physics and Cosmology (Cosmological Constant, some parameters of Dark Energy) v1 07.01.2020 - UPDATED VERSION 25.08.2020

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 93 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

On some Ramanujan's Class Invariants: mathematical connections with the Golden Ratio linked to the various equations concerning some sectors of Cosmology

by

Michele Nardelli

The aim of this paper is to show the mathematical connections between the Ramanujan's Class Invariants, the Golden Ratio and some expression of various topics of Cosmology v1 18.02.2020 - UPDATED VERSION 25.08.2020

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 66 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

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Noncompact symmetries in string theory

by

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On some equations regarding various parameters concerning the Pre- Inflationary Climbing Phase and pre-inflationary dynamics. Mathematical connections with some sectors of Number Theory

by

Michele Nardelli

In this research thesis, we analyze some equations regarding various parameters concerning the Pre-Inflationary Climbing Phase and pre-inflationary dynamics. We obtain several possible mathematical connections with some sectors of Number Theory

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 46 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Explaining low $$\ell $$ ℓ anomalies in the CMB power spectrum with resonant superstring excitations during inflation

by

Mayukh R. Gangopadhyay, Grant J. Mathews, Kiyotomo Ichiki, Toshitaka Kajino

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On some equations regarding Ramanujan's Lost Notebook: Mathematical connections with various parameters concerning the Primordial Black Holes and Pre-Inflationary Relics

by

Michele Nardelli

In this research thesis, we analyze some equations regarding Ramanujan's Lost Notebook, obtaining possible mathematical connections with various parameters concerning the Primordial Black Holes and Pre-Inflationary Relics

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 81 For ξ=1 we obtain: ...

Testing B-violating signatures from exotic instantons in future colliders

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Spectra of 4D, N=1 type I string vacua on non-toroidal CY threefolds

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Unified no-scale attractors

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John Ellis, Dimitri V. Nanopoulos, Keith A. Olive, Sarunas Verner

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Brane annihilation in non-supersymmetric strings

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On some equations regarding Ramanujan's Lost Notebook: Mathematical connections with various sectors concerning String Theory

by

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In this research thesis, we analyze some equations regarding Ramanujan's Lost Notebook, obtaining possible mathematical connections with various sectors concerning String Theory

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...mitted for the degree of Doctor of Philosophy at the University of Oxford Trinity Term, 2004) From: **New Developments in Open - String Theories** Gianfranco Pradisi and Augusto Sagnotti - arXiv:hep-th/9211084v1 18 Nov 1992 We have that: 62 From ...

Erratum: Open and unoriented strings from topological membrane. I. Prolegomena

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Cubic interactions of massless bosonic fields in three dimensions. II. Parity-odd and Chern-Simons vertices

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On various equations regarding JT Gravity and some sectors of String Theory: Mathematical connections with some topics concerning Number Theory

by

Michele Nardelli

In this research thesis, we analyze various equations concerning JT Gravity and some sectors of String Theory, obtaining further possible mathematical connections with some topics concerning Number Theory

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 54 For ξ=1 we obtain: ...

On some integral equations and incomplete elliptic integrals of the first kind: new possible mathematical connections with Phi , zeta(2) and various parameters of Particle Physics. II

by

Michele Nardelli

In this paper we have described some Ramanujan's integral equations and incomplete elliptic integrals of the first kind. Furthermore, we describe new possible mathematical connections with Phi , zeta(2) , and various parameters of Particle Physics v1 - 27.03.2020 - UPDATED VERSION 22.08.2020

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Analyzing some equations regarding Brane Supersymmetry Breaking and various sectors of String Theory: possible mathematical connections with some topics concerning Number Theory

by

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In this research thesis, we analyze various equations concerning Brane Supersymmetry Breaking and some sectors of String Theory, obtaining further possible mathematical connections with some topics concerning Number Theory

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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 57 From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1 we obtain: (2*...

Large N gauge theories from orientifolds with NS-NS B-flux

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On various equations regarding some sectors of String Theory: Further mathematical connections with some topics concerning Number Theory II

by

Michele Nardelli

In this research thesis, we analyze various equations concerning JT Gravity and Brane supersymmetry breaking, obtaining further possible mathematical connections with some topics concerning Number Theory V2 - 21.08.2020

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On various equations regarding some sectors of String Theory: Further mathematical connections with some topics concerning Number Theory II

by

Michele Nardelli

In this research thesis, we analyze various equations concerning some sectors of String Theory, obtaining further possible mathematical connections with some topics concerning Number Theory

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 76 For ξ=1 we obtain: ...

On some possible mathematical connections between various equations concerning the Dirichlet boundary conditions of the D-branes and several equations inherent the zeros of certain Dirichlet series

by

Michele Nardelli

In this paper we have described some possible mathematical connections between various equations concerning the Dirichlet boundary conditions of the D-branes and several equations inherent the zeros of certain Dirichlet series v1 02.05.2020 - UPDATED VERSION 21.08.2020

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 76 For ξ=1 we obtain: ...

On various equations regarding Broken Supersymmetry, Supermoduli Spaces and some sectors of String Theory: Further mathematical connections with some topics concerning Number Theory.

by

Michele Nardelli

In this research thesis, we analyze various equations concerning broken supersymmetry, supermoduli spaces and some sectors of String Theory, obtaining further possible mathematical connections with some topics concerning Number Theory Below the link of the paper that is the continuation of this work: https://www.academia.edu/43915234/On_various_equations_regarding_some_sectors_of_String_Theory_Further_mathematical_connections_with_some_topics_concerning_

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LOW-ℓ CMB FROM STRING-SCALE SUSY BREAKING?

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...arXiv:1509.08204v1 [astro-ph.CO] 28 Sep 2015 Low−ℓ CMB from String−Scale SUSY Breaking? **A. Sagnotti** Scuola Normale Superiore and INFN Piazza dei Cavalieri 7 56126 Pisa ITALY Abstract Models of infla...

A possible Theory of Mathematical Connections between various Ramanujan's formulas and the equations of Inflationary Cosmology and the Standard Model concerning the scalar field Phi, the Inflaton mass, the Higgs boson mass and the Pion meson Pigreco^± mass. II

by

Michele Nardelli

In this paper we have shown a possible theoretical connection between some parameters of inflationary cosmology, of particle masses (Higgs boson and Pion meson) and some fundamental equations of Ramanujan's mathematics. v1 13.12.2019 - UPDATED VERSION 20.08.2020

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...**3** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 29 For ξ=1 we obtain: ...

DUALITY AND CANONICAL TRANSFORMATIONS

by

LOZANO, Y.

We present a brief review on the canonical transformation description of some duality symmetries in string and gauge theories. In particular, we consider Abelian and non-Abelian T-dualities in closed and open string theories as well as S-duality in Abelian and non-Abelian nonsupersymmetric gauge theories.

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On some Ramanujan equations: mathematical connections with Prime Number Theorem, Phi, zeta(2) and various parameters of Particle Physics.

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan equations. We have obtained several mathematical connections between Prime Number Theorem, Phi, zeta(2) and various parameters of Particle Physics. v1 19.04.2020 - UPDATED VERSION 20.08.2020

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...$3 = \phi$ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 93 For ξ=1 we obtain: ...

Poisson-Lie T-duality: Open strings and D-branes

by

Klimčík, C., Ševera, P.

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...preparation [17] P. Ho˘rava, Phys. Lett. B231 (1989) 251; Nucl. Phys. B327 (1989) 461; A. Sagnotti, **Open Strings and Their Symmetry Groups**, in Carg´ese 87, Non-perturbative Quantum Field Theory, ed. G. Mack et al., (Pergamon Press 1988) p...

Gravity waves from non-minimal quadratic inflation

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Pallis, Constantinos, Shafi, Qaisar

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Boundary states for WZW models

by

Gaberdiel, Matthias R., Gannon, Terry

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Magnetic fabric and rock magnetic studies of metasedimentary rocks in the central Okcheon Metamorphic Belt, Korea

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Park, Yong-Hee, Doh, Seong-Jae, Kim, Wonnyon, Suk, Dongwoo

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On some possible mathematical connections between various equations concerning the Mock Modularity closely related to N = 4 super Yang-Mills, Phi, ζ(2) and some parameters of Particle Physics.

by

Michele Nardelli

In this paper we have described some possible mathematical connections between various equations concerning the Mock Modularity closely related to N = 4 super Yang-Mills, Phi, ζ(2) and some parameters of Particle Physics. first version 05.05.2020 - UPDATED VERSION 19.08.2020

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Four-dimensional gravitational backgrounds based on , superconformal systems

by

Kounnas, Costas

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On several equations regarding AdS/CFT correspondence and some sectors of String Theory: Further mathematical connections with some topics concerning Number Theory. VIII

by

Michele Nardelli

In this research thesis (part VIII), we analyze several equations concerning AdS/CFT correspondence and some sectors of String Theory, obtaining further possible mathematical connections with some topics concerning Number Theory Below the link of the new paper that is the continuation of this work: https://www.academia.edu/43907894/On_various_equations_regarding_Broken_Supersymmetry_Supermoduli_Spaces_and_some_sectors_of_String_Theory_Further_mathem

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...$3 = \phi$ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: 77 For ξ=1 we obtain: ...

Stability and vacuum energy in open string models with broken supersymmetry

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Steven Abel, Emilian Dudas, Daniel Lewis, Hervé Partouche

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...ity of Open String Models, Phys. Lett. B 231 (1989) 251 [INSPIRE]. [85] M. Bianchi and A. Sagnotti, **On the systematics of open string theories**, Phys. Lett. B 247 (1990) 517 [INSPIRE]. [86] M. Bianchi and A. Sagnotti, Twist symmetry and open s...

THE ONE-LOOP DIVERGENCES OF THE LINEAR GRAVITY WITH THE TORSION TERMS IN TETRAD APPROACH

by

YU. KALMYKOV, M., KALMYKOV, M. YU., PRONIN, P. I.

In this letter we discuss the connection between the geometric and tetrad approaches in the quantum affine-metric gravity. The corresponding transition formulas are obtained at the one-loop level. As an example, the one-loop counterterms are calculated in the tetrad formalism in the theory with terms quadratic in the torsion field. This model possesses the extra local symmetries connected with transformation of the connection field. It is shown that the special gauge can be chosen so that the corresponding additional ghosts do not contribute to the one-loop divergent terms.

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Proton stability in grand unified theories, in strings and in branes

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Couplings in Pseudo-Supersymmetry

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Fermion mass hierarchy in six-dimensional SO(10) grand unified theory on a T2/Z2 orbifold

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On several equations regarding the Solitons and the String Theory. Mathematical connections with some topics concerning Number Theory. VII

by

Michele Nardelli

In this research thesis (part VII), we analyze several equations concerning the Solitons and the String Theory, obtaining the possible mathematical connections with some topics concerning Number Theory Below the link of the part VIII of this work

https://www.academia.edu/43894862/On_several_equations_regarding_AdS_CFT_correspondence_and_some_sectors_of_String_Theory_Further_mathematical_connections.

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Gauge invariant Lagrangian construction for massive bosonic higher spin fields in D dimensions

by

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On the fundamental mathematical constants π, φ, ζ(2), ζ(6), ζ(8) and ζ(10): new interesting mathematical connections

by

Michele Nardelli

In this research thesis, we have described the new possible mathematical connections between the following fundamental mathematical constants: π, φ, ζ(2), ζ(6), ζ(8) and ζ(10). We have described also the possible connections with some results of String Theory and Particle Physics first version 03.11.2019 - UPDATED VERSION 18-08-2020 more ▾

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Vertex Constraints in 3D Higher Spin Theories

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Quasi-supersymmetric G3 unification from intersecting D6-branes on Type IIA orientifolds

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On the mathematical connections between some formulas concerning the Shapiro-Virasoro model in String Theory, Ramanujan equations, Phi, ζ(2) and various parameters of Particle Physics.

by

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In this paper we describe and analyze the mathematical connections between some formulas concerning the Shapiro-Virasoro model in String Theory, Ramanujan equations, Phi , ζ(2) and various parameters of Particle Physics. UPDATED VERSION

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A classification of toroidal orientifold models

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Ramanujan approximations to Pigreco, invariant class and other expressions: further mathematical connections with some sectors of Particle Physics, String Theory and Physics of Black Holes (entropy)

by

Michele Nardelli

In this research paper, we have obtained further mathematical connections with some sectors of Particle Physics, String Theory and Physics of Black Holes (entropy) and the Ramanujan approximation to Pigreco, invariant class and other expressions extracted from some pages of original manuscript first version 03.08.2019 - UPDATED VERSION 17.08.2020

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On some equations concerning various topics regarding Number Theory. Mathematical connections with some expressions regarding the Solitons. Instantons and some sectors of String Theory. VI

by

Michele Nardelli

In this research thesis (part VI), we analyze several equations concerning various topics regarding Number Theory and obtain possible mathematical connections with some expressions regarding the Solitons, Instantons and some sectors of String Theory

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5d super-Yang−Mills theory in 4d superspace, superfield brane operators, and applications to orbifold GUTs

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Gauge invariant Lagrangian formulation of higher spin massive bosonic field theory in AdS space

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Buchbinder, I.L., Krykhtin, V.A., Lavrov, P.M.

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On the mathematical connections between some formulas concerning Modular Forms, Elliptic Curves, Ramanujan equations, Phi, ζ(2) and various topics and parameters of String Theory and Particle Physics II

by

Michele Nardelli

In this paper we describe and analyze the mathematical connections between some formulas concerning Modular forms, Ramanujan equations, Phi , ζ(2) and various topics and parameters of String Theory and Particle Physics. v1 10.05.2020 - UPDATED VERSION 16.08.2020

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Mathematical connections between various Ramanujan's equations, values of mass and electric charges of fundamental particles and physical data of Kerr Supermassive Black Hole M87

by

Michele Nardelli

In this research thesis, we have described some mathematical connections between various Ramanujan's equations, values of mass and electric charges of fundamental particles and physical data of Kerr Supermassive Black Hole M87. We have obtained some very interesting results concerning a possible mathematical unification between some sectors of particle and string physics and some sectors of black hole physics, through the use and development of some formulas discovered by S. Ramanujan v1 04.12.2019 - UPDATED VERSION 16.08.2020

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On some Ramanujan's equations: Mathematical connections with some expressions and results regarding Brane Supersymmetry Breaking.

by

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In this research thesis, we analyze several Ramanujan's equations. We obtain possible mathematical connections with some expressions and results regarding Brane Supersymmetry Breaking UPDATED VERSION 16.08.2020

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...3 = ϕ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 103 For ξ=1 we obtain: (2*e^(0....

On some equations concerning two Ramanujan identities involving doubly infinite series of Bessel functions. Mathematical connections with some results regarding various sectors of String Theory. II

by

Michele Nardelli

In this research thesis, we analyze several equations concerning two Ramanujan identities involving doubly infinite series of Bessel functions. We obtain further possible mathematical connections with some results regarding various sectors of String Theory. SECOND PART

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...$3 = \phi$ and to the value of the following Rogers-Ramanujan continued fraction: From March 27, 2018 **AdS Vacua from Dilaton Tadpoles and Form Fluxes** J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 103 For ξ=1 we obtain: (2*e^(0....

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Discrete deformations in Type I vacua

by

Angelantonj, Carlo, Blumenhagen, Ralph

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...BB lattice (corresponding to r = 4). Acknowledgments We are grateful to L. G¨orlich, B. K¨ors and **A. Sagnotti** for interesting discussions. C.A. would like to thank the Physics Department of Humboldt University...

Orientifolds of the 3-sphere

by

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On some equations concerning two Ramanujan identities involving doubly infinite series of Bessel functions. Mathematical connections with some results regarding the Instantons and various sectors of String Theory.

by

Michele Nardelli

In this research thesis, we analyze several equations concerning two Ramanujan identities involving doubly infinite series of Bessel functions. We obtain possible mathematical connections with some results regarding the Instantons and various sectors of String Theory Below the link of the continuation of the study of this argument: https://www.academia.edu/43875721/On_some_equations_concerning_various_topics_regarding_Number_Theory_Mathematical_connections_with_some_expressions_rega

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$$ {\mathcal{R}}^4 $$ counterterm and E 7(7) symmetry in maximal supergravity

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On some Ramanujan's Nested Radicals: mathematical connections with Phi , zeta(2) and various parameters of Cosmology and Particle Physics.

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan's Nested Radicals. Furthermore, we have obtained various mathematical connections with Phi , zeta(2) , and several parameters of Cosmology and Particle Physics. (v1 10.04.2020) UPDATED VERSION

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On some equations concerning various topics regarding Number Theory. Mathematical connections with some expressions regarding the Instantons and some sectors of String Theory. V

by

Michele Nardelli

In this research thesis (part V), we analyze several equations concerning various topics regarding Number Theory and obtain possible mathematical connections with some expressions regarding the Instantons and some sectors of String Theory . below, the two links of the continuation of the research thesis in question: https://www.academia.edu/43864358/On_some_equations_concerning_two_Ramanujan_identities_involving_doubly_infinite_series_of_Bessel_functions_Mathematical_conn https://www.academia.edu/43875721/On_some_equations_concerning_various_topics_regarding_Number_Theory_Mathematical_connections_with_some_expressions_rega

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Lectures on Loop Quantum Gravity

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On some equations concerning various topics regarding Instantons in String Theory. Mathematical connections with two Ramanujan identities involving double series of Bessel functions. IV

by

Michele Nardelli

In this research thesis (part IV), we analyze several equations concerning various topics regarding instantons in String Theory, highlighting the possible mathematical connections with two Ramanujan identities involving double series of Bessel functions

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On some Ramanujan equations: mathematical connections with Phi , zeta(2) and various parameters of Cosmology and Particle Physics. II

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan equations. Furthermore, we have obtained various mathematical connections with Phi, zeta(2) , and several parameters of Cosmology and Particle Physics. (12.04.2020) - UPDATED VERSION

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On some Ramanujan's Approximations to π: mathematical connections with Phi, zeta(2), and various parameters of Particle Physics.

by

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In this paper we have described and analyzed some Ramanujan's Approximations to π. Furthermore, we have obtained various mathematical connections with Phi , zeta(2) , and several parameters of Particle Physics. (09.04.2020) - UPDATED VERSION

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On some equations concerning various topics regarding Instantons in String/M- Theory. Mathematical connections with some sectors of Number Theory. III

by

Michele Nardelli

In this research thesis (part III), we analyze several equations concerning various topics regarding instantons in String/M-Theory, highlighting the possible mathematical connections with some sectors of Number Theory

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...ous equations was carried out according an our possible logical and original interpretation 2 From: **Type-I strings on magnetised orbifolds and brane transmutation** C. Angelantonj, I. Antoniadis, E. Dudas and A. Sagnotti - arXiv:hep-th/0007090v2 29 Jul 2000 We hav...

Scalar field cosmologies with inverted potentials

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On the Ramanujan's mathematics and Quantum Theory of Fields: mathematical connections with Phi, zeta(2) and some parameters of Particle Physics.

by

Michele Nardelli

In this paper we have described and analyzed some Ramanujan equations and various formulas of Quantum Theory of Fields. Furthermore, we have obtained mathematical connections with , 2 , and some parameters of Particle Physics. (07.04.2020) - UPDATED VERSION

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[Field theoretical approach to gravitational waves]

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[From Minkowski to de Sitter in multifield no-scale models]

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[Gauge and parametrization dependencies of the one-loop counterterms in Einstein gravity]

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[Corrections to scaling in entanglement entropy from boundary perturbations]

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[Massive Mixed Symmetry Field Dynamics in Open Bosonic String Theory]

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[On some Ramanujan expressions: mathematical connections with Phi and various formulas concerning several sectors of Cosmology and Black Holes Physics. XII]

by

Michele Nardelli

In this paper we have described some Ramanujan formulas and obtained some mathematical connections with and various equations concerning different sectors of Cosmology and Black Holes Physics. (06.03.2020) - UPDATED VERSION

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[Anomaly constraints and string/F-theory geometry in 6D quantum gravity]

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[Charged black holes in two-dimensional string theory]

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[On some Ramanujan expressions: mathematical connections with and various formulas concerning several sectors of Cosmology and Black Holes/Wormholes Physics. XI]

by

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[On some equations concerning various topics regarding Instantons in String/M- Theory. Mathematical connections with some sectors of Number Theory. II]

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In this research thesis (part II), we analyze several equations concerning various topics regarding instantons in String/M-Theory, highlighting the possible mathematical connections with some sectors of Number Theory

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On a Ramanujan equation: mathematical connections with the golden ratio and various formulas concerning some arguments of Cosmology and Black Holes/Wormholes Physics. X

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On some Ramanujan equations: mathematical connections with various formulas concerning some arguments of Cosmology and Black Holes/Wormholes Physics. IX

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by

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On the Ramanujan's mathematics (Rogers-Ramanujan continued fractions, taxicab numbers and Manuscript Book 1 formulae) applied to various sectors of String Theory and to the Black Hole Physics: Further new possible mathematical connections XII

by

Michele Nardelli

In this research thesis, we have analyzed and deepened further Ramanujan expressions (Rogers-Ramanujan continued fractions, taxicab numbers and Manuscript Book 1 formulae) applied to some sectors of String Theory and to the Black Hole Physics. We have therefore described other new possible mathematical connections. (25.01.2020) - UPDATED VERSION 07-08-2020

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On various equations concerning String Theory, Brane SUSY Breaking and Cosmology. Mathematical connections with the mock theta function coefficients, some expression concerning the Ramanujan's first letter and some sectors of Number Theory. II

by

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In this research thesis (part II), we analyze further equations concerning String Theory, Brane SUSY Breaking and Cosmology, obtaining various mathematical connections with the mock theta function coefficients, some expression concerning the Ramanujan's first letter and some topics of Number Theory version 2 UPDATED VERSION 07/08/2020

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THE WORLDSHEET PERSPECTIVE OF T-DUALITY SYMMETRY IN STRING THEORY

by

MAHARANA, JNANADEVA

The purpose of this paper is to present a pedagogical review of T-duality in string theory. The evolution of the closed string is envisaged on the worldsheet in the presence of its massless excitations. The duality symmetry is studied when some of the spacial coordinates are compactified on d-dimensional torus, Td. The known results are reviewed to elucidate that equations of motion for the compact coordinates are O(d, d) covariant, d being the number of compact directions. Next, the vertex operators of excited massive levels are considered in a simple compactification scheme. It is shown that the vertex operators for each massive level can be cast in a T-duality invariant form in such a case. Subsequently, the duality properties of superstring is investigated in the NSR formulation for the massless backgrounds such as graviton and antisymmetric tensor. The worldsheet superfield formulation is found to be very suitable for our purpose. The Hassan−Sen compactification is adopted and it is shown that the worldsheet equations of motion for compact superfields are O(d, d) covariant when the backgrounds are independent of superfields along compact directions. The vertex operators for excited levels are presented in the NS−NS sector and it is shown that they can be cast in T-duality invariant form for the case of Hassan−Sen compactification scheme. An illustrative example is presented to realize our proposal.

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On various equations concerning String Theory and Cosmology. Mathematical connections with the mock theta function coefficients, some expression concerning the Ramanujan's first letter and some sectors of Number Theory. II

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In this research thesis (part II), we analyze further equations concerning String Theory and Cosmology, obtaining various mathematical connections with the mock theta function coefficients, some expression concerning the Ramanujan's first letter and some topics of Number Theory version 1

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On the Ramanujan's mathematics (mock theta functions and taxicab numbers) applied to various sectors of M-Theory (braneworld) and to the Black Hole Physics: Further new possible mathematical connections XI

by

Michele Nardelli

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N=1 SUPERCONFORMAL MINIMAL MODEL CORRELATION FUNCTIONS ON THE TORUS

by

ABDURRAHMAN, A., ANTON, F., NAMAZIE, M.A., NÚÑEZ, C.

The Coulomb gas formalism is employed to construct contour integral representations of two-point correlation functions on the torus for the N=1 superconformal unitary discrete series, characterized by the single integer p. (For the particular case of the tricritical Ising model, these include the energy and vacancy density operators.) Modular and monodromy properties of the superconformal blocks are examined, and the generalization to superconformal theories of Verlinde's results on modular transformations and the fusion algebra are discussed in some detail. For p odd the relevant modular matrix is (with respect to a particular basis) symmetric and unitary, as in ordinary rational conformal theory. However, for p even, there appears to be an obstruction due to the Ramond vacuum state.

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by

Michele Nardelli

In this research thesis, we analyze further equations concerning the Broken Supersymmetry and Vacuum Stability, obtaining various mathematical connections with the Partition Function p(n) and some topics of Number Theory Below, the link of part II of this work: https://www.academia.edu/43802384/On_various_equations_concerning_String_Theory_Brane_SUSY_Breaking_and_Cosmology_Mathematical_connections_with_the_mock_

more ▾

On various Ramanujan equations (mock theta functions and taxicab numbers) linked to some sectors of Supersymmetric String Theory applied to the Black Hole Physics: Further new possible mathematical connections VIII

by

Michele Nardelli

In this research thesis, we have analyzed and deepened further Ramanujan expressions (mock theta functions and taxicab numbers) applied to some sectors of Supersymmetric String Theory concerning the Black Hole Physics. We have therefore described other new possible mathematical connections. (22.01.2020) - UPDATED VERSION

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On various Ramanujan equations (mock theta functions and taxicab numbers) linked to some sectors of String Theory applied to the Black Hole Physics (black strings): Further new possible mathematical connections IX

by

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In this research thesis, we have analyzed and deepened further Ramanujan expressions (mock theta functions and taxicab numbers) applied to some sectors of String Theory concerning the Black Hole Physics (black strings). We have therefore described other new possible mathematical connections. (22.01.2020) - UPDATED VERSION

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...discussions. I would like to thank M. Bianchi, J. David, J. F. Morales, R. R. Nayak and especially **A. Sagnotti** for numerous interesting discussions. This work was supported in part by I.N.F.N., by the E.C. RTN...

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On the various Ramanujan equations (mock theta functions and taxicab numbers) linked to some sectors of String Theory (black branes) and Black Hole Physics: Further new possible mathematical connections VII

by

Michele Nardelli

In this research thesis, we have analyzed and deepened further Ramanujan expressions (mock theta functions and taxicab numbers) applied to some sectors of String Theory (black branes) and Black Hole Physics. We have therefore described other new possible mathematical connections. (21.01.2020) - UPDATED VERSION

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On some Ramanujan formulas: new possible mathematical connections with various parameters of Particle Physics and Cosmology IV

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Higher spins and stringyAdS5 ×S5

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Recent Progress in Fighting Ghosts in Quantum Gravity

by

Filipe Salles, Ilya Shapiro

We review some of the recent results which can be useful for better understanding of the problem of stability of vacuum and in general classical solutions in higher derivative quantum gravity. The fourth derivative terms in the purely gravitational vacuum sector are requested by renormalizability already in both semiclassical and complete quantum gravity theories. However, because of these terms, the spectrum of the theory has unphysical ghost states which jeopardize the stability of classical solutions. At the quantum level, ghosts violate unitarity, and thus ghosts look incompatible with the consistency of the theory. The "dominating" or "standard" approach is to treat higher derivative terms as small perturbations at low energies. Such an effective theory is supposed to glue with an unknown fundamental theory in the high energy limit. We argue that the perspectives for such a scenario are not clear, to say the least. On the other hand, recently, there was certain progress in understanding physical conditions which can make ghosts not offensive. We survey these results and discuss the properties of the unknown fundamental theory which can provide these conditions satisfied.

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Discrete torsion orbifolds and D-branes II

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Twisted boundary states in c = 1 coset conformal field theories

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An action for the (2,0) self-dual tensor multiplet in a conformal supergravity background

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...shown much later, in the two-loop approximation, by two Caltech graduate students, Marc Goroff and **Augusto Sagnotti**.) Those problems may be rectified by unification of all the particles and interactions, as they are...

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On some Ramanujan formulas: new possible mathematical connections with various parameters of Particle Physics, Dark Matter, Dark Energy and Cosmology I

by

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Analyzing some equations concerning the degeneracies of BPS states of D-branes on compact Calabi-Yau manifolds. Mathematical connections with the Partition Number p(n) and some sectors of Number Theory.

by

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In this research thesis, we analyze further equations concerning the degeneracies of BPS states of D-branes on compact Calabi-Yau manifolds, obtaining various mathematical connections with the Partition Number p(n) and some topics of Number Theory

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New mathematical connections between the possible developments and solutions of Ramanujan's equations and various parameters of Particle Physics and Cosmology. XII

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On some equations concerning the Supersymmetric AdS 5 black holes. Mathematical connections with the Partition Function p(n) and some sectors of Number Theory.

by

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In this research thesis, we analyze further equations concerning the Supersymmetric AdS 5 black holes, obtaining various mathematical connections with the Partition Function p(n) and some topics of Number Theory UPDATED VERSION 03.08.2020

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New mathematical connections between the possible developments and solutions of Ramanujan's equations and various parameters of Particle Physics and Cosmology. XI

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Non-commutative unification in the brane world

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LOOP VARIABLES WITH CHAN−PATON FACTORS

by

SATHIAPALAN, B.

The loop variable method that has been developed for the U(1) bosonic open string is generalized to include non-Abelian gauge invariance by incorporating &amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;quot;Chan−Paton&amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;quot; gauge group indices. The scale transformation symmetry k(s)→λ(s)k(s) that was responsible for gauge invariance in the U(1) case continues to be a symmetry. In addition there is a non-Abelian &amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;amp;quot;rotation&amp;amp;amp;amp;amp symmetry. Both symmetries crucially involve the massive modes. However, it is plausible that only a linear combination, which is the usual Yang−Mills transformation on massless fields, has a smooth (worldsheet) continuum limit. We also illustrate how an infinite number of terms in the equation of motion in the cutoff theory add up to give a term that has a smooth continuum limit, and thus contributes to the low energy Yang−Mills equation of motion.

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Further equations concerning the Supersymmetry/Supergravity. Mathematical connections with the Partition Function p(n) and some topics of Number Theory.

by

Michele Nardelli

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NON-ABELIAN TENSOR GAUGE FIELDS I

by

SAVVIDY, GEORGE

We suggest an infinite-dimensional extension of gauge transformations which includes non-Abelian tensor gauge fields. In this extension of the Yang−Mills theory the vector gauge boson becomes a member of a bigger family of gauge bosons of arbitrarily large integer spins. The invariant Lagrangian does not contain higher derivatives of tensor gauge fields and all interactions take place through three- and four-particle exchanges with dimensionless coupling constant.

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...etc.) [33,34,35,36,37]. Acknowledgements We would like to thank N. Beisert, S. Kovacs, A. Petkou, **A. Sagnotti**, E. Sokatchev, Ya. Stanev, P. Sundell, M. Trigiante, and M. Vasiliev, for useful discussions. This...

Supersymmetric extended string field theory in NSn sector and NSn−1−R sector

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On the Ramanujan's equations applied to various sectors of Particle Physics and Cosmology: new possible mathematical connections with the values of Pion mesons and other baryons and mesons

by

Michele Nardelli

In this research thesis, we have analyzed further Ramanujan formulas and described new possible mathematical connections with some sectors of Particle Physics (values of Pion mesons and other baryons and mesons) and Cosmology (08-12-2019) - UPDATED VERSION

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[On the quantum field theory of the gravitational interactions](#)

by

Damiano Anselmi

We study the main options for a unitary and renormalizable, local quantum field theory of the gravitational interactions. The first model is a Lee-Wick superrenormalizable higher-derivative gravity, formulated as a nonanalytically Wick rotated Euclidean theory. We show that, under certain conditions, the S matrix is unitary when the cosmological constant vanishes. The model is the simplest of its class. However, infinitely many similar options are allowed, which raises the issue of uniqueness. To deal with this problem, we propose a new quantization prescription, by doubling the unphysical poles of the higher-derivative propagators and turning them into Lee-Wick poles. The Lagrangian of the simplest theory of quantum gravity based on this idea is the linear combination of R, $R_{\mu \nu}R^{\mu \nu}$, R^{2} and the cosmological term. Only the graviton propagates in the cutting equations and, when the cosmological constant vanishes, the S matrix is unitary. The theory satisfies the locality of counterterms and is renormalizable by power counting. It is unique in the sense that it is the only one with a dimensionless gauge coupling.

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[On the Ramanujan's equations applied to various sectors of Particle Physics and Cosmology: new possible mathematical connections. VIII](#)

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by

Yuji Tachikawa, Kazuya Yonekura

Orientifold pp-planes with p\le 4p≤4 have fractional Dpp-charges, and therefore appear inconsistent with Dirac quantization with respect to D(6{-}p)(6−p)-branes. We explain in detail how this issue is resolved by taking into account the anomaly of the worldvolume fermions using the \etaη invariants. We also point out relationships to the classification of interacting fermionic symmetry protected topological phases. In an appendix, we point out that the duality group of type IIB string theory is the pin^++ version of the double cover of GL(2,Z).

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by

Tim R. Morris

The Wilsonian renormalization group (RG) requires Euclidean signature. The conformal factor of the metric then has a wrong-sign kinetic term, which has a profound effect on its RG properties. In particular, around the Gaussian fixed point, it supports a Hilbert space of renormalizable interactions involving arbitrarily high powers of the gravitational fluctuations. These interactions are characterized by being exponentially suppressed for large field amplitude, perturbative in Newton's constant but nonperturbative in Planck's constant. By taking a limit to the boundary of the Hilbert space, diffeomorphism invariance is recovered whilst retaining renormalizability. Thus the so-called conformal factor instability points the way to constructing a perturbatively renormalizable theory of quantum gravity.

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We apply the BRST approach, previously developed for higher spin field theories, to gauge-invariant Lagrangian construction for antisymmetric massive and massless bosonic fields in arbitrary d-dimensional curved space. The obtained theories are reducible gauge models both in massless and massive cases and the order of reducibility grows with the value of the rank of the antisymmetric field. In both cases the Lagrangians contain the sets of auxiliary fields and possess more rich gauge symmetry in comparison with standard Lagrangian formulation for the antisymmetric fields. This serves as an additional demonstration of universality of the BRST approach for Lagrangian constructions in various field models.

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Overview of High Energy String Scattering Amplitudes and Symmetries of String Theory

by

Jen-Chi Lee, Yi Yang

In this paper, we studied symmetries of string scattering amplitudes in the high energy limits of both the fixed angle or Gross regime (GR) and the fixed momentum transfer or Regge regime (RR). We calculated high energy string scattering amplitudes (SSA) at arbitrary mass levels for both regimes. We discovered the infinite linear relations among fixed angle string amplitudes and the ifinite recurrence relations among Regge string amplitudes. The linear relations we obtained in the GR corrected the saddle point calculations by Gross, Gross and Mende. In addition, for the high energy closed string scatterings, our results differ from theirs by an oscillating prefactor which was crucial to recover the KLT relation valid for all energies. We showed that all the high energy string amplitudes can be solved using the linear or recurrence relations, so that all the string amplitudes can be expressed in terms of a single string amplitude. We further found that, at each mass level, the ratios among the fixed angle amplitudes can be extracted from the Regge string scattering amplitudes. Finally, we reviewed the recent developments on the discovery of infinite number of recurrence relations valid for all energies among Lauricella SSA. The symmetries or relations among SSA at various limits obtained previously can be exactly reproduced. It leads us to argue that the known S L (K + 3 , C) dynamical symmetry of the Lauricella function may be crucial to probe spacetime symmetry of string theory.

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From Ramanujan's Mock Theta Functions to Black Hole Entropies and Particle Physics: Symmetry, Supersymmetry and Golden Ratio

by

Michele Nardelli

In the present research thesis, we have obtained various interesting new mathematical connections concerning the Ramanujan's mock theta functions, some like-particle solutions, Supersymmetry, some formulas of Haramein's Theory and Black Holes entropies. We obtain excellent approximations to the values of the golden ratio, its conjugate and $\zeta(2)$ (September 19 2019 - UPDATED VERSION)

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THE CANONICAL STRUCTURE OF THE MANIFESTLY SUPERSYMMETRIC STRING

by

ALLEN, THEODORE J.

Both the Green-Schwarz and Siegel strings are presented in canonical form. Both systems are shown to describe the same number of physical degrees of freedom. The apparent extra symmetries of the Siegel string are not true symmetries but are combinations of second-class constraints. A formal quantization procedure is outlined and the problems of quantization are discussed.

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...rm for the dynamics of the free string field theory. Acknowledgements I thank J. Preskill, R. Rohm, **A. Sagnotti**, J. Schwarz, B. Warr and especially M. Douglas for useful discussions. 17 APPENDIX Calculus of C...

Classifying bases for 6D F-theory models

by

Morrison, David R., Taylor, Washington

We classify six-dimensional F-theory compactifications in terms of simple features of the divisor structure of the base surface of the elliptic fibration. This structure controls the minimal spectrum of the theory. We determine all irreducible configurations of divisors ("clusters") that are required to carry nonabelian gauge group factors based on the intersections of the divisors with one another and with the canonical class of the base. All 6D F-theory models are built from combinations of these irreducible configurations. Physically, this geometric structure characterizes the gauge algebra and matter that can remain in a 6D theory after maximal Higgsing. These results suggest that all 6D supergravity theories realized in F-theory have a maximally Higgsed phase in which the gauge algebra is built out of summands of the types su(3), so(8), f4, e6, e8, e8, (g2 ⊕ su(2)); and su(2) ⊕ so(7) ⊕ su(2), with minimal matter content charged only under the last three types of summands, corresponding to the non-Higgsable cluster types identified through F-theory geometry. Although we have identified all such geometric clusters, we have not proven that there cannot be an obstruction to Higgsing to the minimal gauge and matter configuration for any possible F-theory model. We also identify bounds on the number of tensor fields allowed in a theory with any fixed gauge algebra; we use this to bound the size of the gauge group (or algebra) in a simple class of F-theory bases.

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A new possible Theory of Mathematical Connections between some Ramanujan's equations and Approximations to π, the equations of Inflationary Cosmology concerning the scalar field Phi , the Inflaton mass, the Higgs boson mass and the Pion meson Pigreco ± mass

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In this research thesis, we have described a new possible Theory of Mathematical Connections between some Ramanujan's equations and Approximations to π, the equations of Inflationary Cosmology concerning the scalar field Phi , the Inflaton mass, the Higgs boson mass and the Pion meson Pigreco± mass (December 2019) - UPDATED VERSION

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On some equations concerning the String Theory, Supersymmetry Brane and Hagedorn Transition. Mathematical connections with the Partition Function p(n) and some topics of Number Theory.

by

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In this research thesis (part IV), we analyze further equations concerning the String Theory, Supersymmetry Brane and Hagedorn Transition, obtaining various mathematical connections with the Partition Function p(n) and some topics of Number Theory (July 20 2020)

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On some equations concerning the String Theory and Supersymmetry Brane. Mathematical connections with the Ramanujan-Hardy/Cardy Partition Function and some topics of Number Theory. III

by

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In this research thesis (part III), we analyze further equations concerning the String Theory and Supersymmetry Brane, obtaining various mathematical connections with the Ramanujan-Hardy/Cardy Partition Function and some topics of Number Theory (July 19 2020)

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On some equations concerning the Conformal Field Theory and String Theory. Mathematical connections with the Ramanujan-Hardy Partition Function and some topics of Number Theory. II

by

Michele Nardelli

In this research thesis (part II), we analyze some equations concerning the Conformal Field Theory and String Theory and obtain various mathematical connections with the Ramanujan-Hardy Partition Function and some topics of Number Theory (July 18 2020)

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... role in the development, and therefore, in the final results of the analyzed expressions. 68 From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 From the following vacuum equat...

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On the possible mathematical connections between some Ramanujan-Cardy- Rademacher formulas, various parameters of Open String, Particle Physics, Phi and $\zeta(2)$

by

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On some equations concerning the Conformal Field Theory and String Theory. Mathematical connections with the Ramanujan-Hardy Partition Function

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In this research thesis, we analyze some equations concerning the Conformal Field Theory and String Theory and obtain various mathematical connections with the Ramanujan-Hardy Partition Function (July 17 2020) Below the links of the second and third part of this reseach thesis:

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On the possible mathematical connections between some equations of the 'Black Hole Entropy and Soft Hair', Black Hole physics, Ramanujan's Class Invariants and Mock Theta Functions

by

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In the present research thesis, we have obtained various and interesting mathematical connections between some equations of the 'Black Hole Entropy and Soft Hair', the fundamental last paper of S.W. Hawking, mathematics and physics of Black Hole, Ramanujan's Class Invariants and Mock Theta Functions (July 18 2019) - UPDATED VERSION

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On the Higher Spins and strings -Supersymmetry Breaking. Mathematical connections with various parameters of Particle Physics and some sectors of Number Theory

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On the Ramanujan's Mock theta functions of tenth order: new possible mathematical developments and mathematical connections with some sectors of Particle Physics and Black Hole physics I

by

Michele Nardelli

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On the Open Strings - Brane Supersymmetry Breaking: New possible mathematical connections with various sectors of Number Theory

by

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In this research thesis, we analyze some equations concerning the Open Strings-Brane Supersymmetry Breaking and obtain various mathematical connections with several sectors of Number Theory. (July 15 2020)

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On the analysis of some equations concerning the Open Strings. Mathematical connections with various sectors of Particle Physics and Number Theory III.

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On the analysis of some equations concerning the Open Strings. Mathematical connections with various sectors of Particle Physics and Number Theory III.

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On the possible analysis of further equations concerning Open strings and Supersymmetry breaking. Mathematical connections with various sectors of Number Theory.

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In this research thesis, we continue to analyze further equations concerning Open Strings and Supersymmetry breaking. We describe the mathematical connections with some sectors of Number Theory. (14.07.2020 UPDATED VERSION) Below the link of the first part

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Матричные модели, комплексная геометрия и интегрируемые системы. II

by

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On condensation of closed-string tachyons

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Blum, Julie D, Dienes, Keith R

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Erratum to: Magnetic quivers, Higgs branches and 6d N$$ \mathcal{N} $$ = (1, 0) theories

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Supertube dynamics in diverse backgrounds

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Kluson, Josef, Panigrahi, Kamal L

...ear future. Acknowledgements: We would like to thank M. Bianchi, U. Lindstrom, Rikard von Unge and **A. Sagnotti** for various useful discussions. J.K. would like to thank the Dipartimento di Fisica, "Tor Vergata"...

On the analysis of several equations regarding "Open Strings". Mathematical connections with some parameters of Particle Physics and various sectors of Number Theory.

by

Michele Nardelli

In this research thesis, we analyze some equations concerning "Open Strings". We describe the mathematical connections with various parameters of Particle Physics and some sectors of Number Theory. (July 12 2020) Below the link of the second part of the paper:

https://www.academia.edu/43619596/On_the_possible_analysis_of_further_equations_concerning_Open_strings_and_Supersymmetry_breaking._Mathematical_connections_

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... can be proved by the Hardy–Littlewood circle method) Series representations: 52 Observations From: **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 Now, we have that: From the fol...

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Chiral supersymmetric models on an orientifold with intersecting D6-branes

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On gauge dependence of the one-loop divergences in 6D, N=(1,0) and N=(1,1) SYM theories

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On the parameters of SMBH 87 and Primordial Black Holes in String Theory and Inflation: New possible mathematical connections with some Ramanujan equations, Phi, zeta(2) and Hausdorff dimension values

by

Michele Nardelli

In this paper we have described the parameters of SMBH 87 and some formulas concerning Primordial Black Holes in String Theory and Inflation. We described also new possible mathematical connections with some Ramanujan equations, Phi , zeta(2) and Hausdorff dimension values (March 23 2020) UPDATED VERSION

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Other possible analysis of various equations concerning "Type I vacua with brane supersymmetry breaking". Mathematical connections with some parameters of Particle Physics and several sectors of Number Theory. IV

by

Michele Nardelli

In this research thesis (part IV), we continue to analyze further equations concerning-Type I vacua with brane supersymmetry breaking‖. We describe the mathematical connections with some parameters of Particle Physics and some sectors of Number Theory. (July 11 2020)

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...arges." Acknowledgement: The comments on manuscript by S. Parvizi, M.M. SheikhJabbari and specially **A. Sagnotti** are deeply acknowledged. Also the author is grateful to M. Khorrami and A. Shariati at IASBS Zanjan...

Vanishing perturbative vacuum energy in non-supersymmetric orientifolds

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AdS vacuum bubbles, holography and dual RG flows

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Quantum hamiltonian reduction in superspace formalism

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On the two-loop divergences of the 2-point hypermultiplet supergraphs for 6 D ,N=(1,1)SYM theory

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On some new possible mathematical connections between some equations of the Ramanujan's manuscripts, the Rogers-Ramanujan continued fractions and some sectors of Particle Physics, String Theory and D-branes

by

Michele Nardelli

In this research thesis, we have described some new mathematical connections between some equations of the Ramanujan's manuscripts, the Rogers-Ramanujan continued fractions and some sectors of Particle Physics (physical parameters of mesons and dilatons, in particular the values of the masses), String Theory and D-branes. (March 25 2020 - UPDATED VERSION)

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...ing instead of a news possible mathematical solutions that are very near to the originals. From: 15 **An Update on Brane Supersymmetry Breaking** J. Mourad and A. Sagnotti - arXiv:1711.11494v1 [hep-th] 30 Nov 2017 With , for we obtain: ((-(-1/2*...

On some Ramanujan formulas: new possible mathematical developments and mathematical connections with the mass value of candidate "glueball" f0(1710) meson, other particles and the Black Hole entropies

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting new possible mathematical results concerning various Ramanujan's formulas. Furthermore, we have described new possible mathematical connections with the mass value of candidate "glueball" f0(1710) meson, other particles and with the Black Hole entropies. (July 12 2019 - UPDATED VERSION)

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On some formulas concerning the Ramanujan's Master Theorem: new possible mathematical developments and mathematical connections with the mass value of candidate "glueball" f0(1710) meson, Dark Photons and the Black Hole entropies

by

Michele Nardelli

In the present research thesis, we have obtained various and interesting new possible mathematical results concerning some equations of the Ramanujan's Master Theorem. Furthermore, we have described new possible mathematical connections with the mass value of candidate "glueball" f0(1710) meson, Dark Photons and with the Black Hole entropies. (July 2019 - UPDATED VERSION)

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On the Ramanujan's integral equations and Wormholes Mathematics: further connections with ϕ, $\zeta(2)$ and some Standard Model of Particle Physics parameters. VI

by

Michele Nardelli

In this paper we have described several Ramanujan integral equations and Wormholes formulas. Furthermore, we obtain connections with ϕ, $\zeta(2)$ and some Standard Model of Particle Physics parameters. (April 2 2020 - UPDATED VERSION)

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Further analysis of some equations concerning "Type I vacua with brane supersymmetry breaking". Mathematical connections with some some sectors of Number Theory. II

by

Michele Nardelli

In this research thesis (part II), we continue to analyze further equations concerning "Type I vacua with brane supersymmetry breaking". We describe the mathematical connections with some sectors of Number Theory.

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On various Ramanujan's equations (Hardy-Ramanujan number, taxicab numbers, etc) linked to some parameters of Standard Model Particles and String Theory: New possible mathematical connections. VI

by

Michele Nardelli

In this research thesis, we have described and deepened further Ramanujan equations (Hardy-Ramanujan number, taxicab numbers, etc) linked to some parameters of Standard Model Particles and String Theory. We have therefore obtained further possible mathematical connections. (February 2020)

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Particle creation in pre-big-bang cosmology

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Open string thermodynamics and D-branes

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Vázquez-Mozo, M.A.

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Gauge invariant formulation of massive totally symmetric fermionic fields in (A)dS space

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Boundary calculus for conformally compact manifolds

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Further analysis of some equations concerning "Type I vacua with brane supersymmetry breaking". Mathematical connections with some some sectors of Number Theory. II

by

Michele Nardelli

In this research thesis (part II), we continue to analyze further equations concerning "Type I vacua with brane supersymmetry breaking". We describe the mathematical connections with some sectors of Number Theory. SECOND UPDATED VERSION 09.07.2020

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Other possible analysis of various equations concerning "Type I vacua with brane supersymmetry breaking". Mathematical connections with some parameters of Particle Physics and several sectors of Number Theory. III

by

Michele Nardelli

In this research thesis (part III), we continue to analyze further equations concerning "Type I vacua with brane supersymmetry breaking". We describe the mathematical connections with some parameters of Particle Physics and some sectors of Number Theory. (Here the links of the part I and part II :
https://www.academia.edu/43566384/Further_analysis_of_some_equations_concerning_Type_I_vacua_with_brane_supersymmetry_breaking_._Mathematical_connections_w
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Constraints on Tree-Level Higher Order Gravitational Couplings in Superstring Theory

by

Stieberger, Stephan

...iring discussions and encouraging me to write up this article. Furthermore, I thank Bernard de Wit, **Augusto Sagnotti**, and especially Radu Roiban for discussions and Tobias Huber for his kind help to compute one Euler...

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Scalar potential and dyonic strings in 6D gauged supergravity

by

Randjbar-Daemi, S., Sezgin, E.

...es of this work. We thank Gary Gibbons, Rahmi G¨uven, Jim Liu, Hong Lu, H. Nishino, Chris Pope and **A. Sagnotti** for useful discussions. E.S. would like to thank the Abdus Salam International Center for Theoretic...

Kähler metrics and gauge kinetic functions for intersecting D6-branes on toroidal orbifolds - The complete perturbative story

by

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On the Ramanujan's elliptic integrals and BH-Wormholes equations: further mathematical connections with Phi, zeta(2) and several parameters of High Energy Physics. IV

by

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In this paper we have described some Ramanujan incomplete elliptic integrals and Black Holes-Wormholes formulas. Furthermore, we describe new possible mathematical connections with Phi, zeta(2) , and various parameters of High Energy Physics (March 31 2020 - updated version)

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In this paper we have described several Ramanujan's elliptic integrals and Wormholes formulas. Furthermore, we describe new possible mathematical connections with Phi , zeta(2) , and some parameters of High Energy Physics (April 1 2020 - updated version)

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GENERATING SMALL NUMBERS BY TUNNELING IN MULTI-THROAT COMPACTIFICATIONS

by

DIMOPOULOS, SAVAS, KACHRU, SHAMIT, KALOPER, NEMANJA, LAWRENCE, ALBION, SILVERSTEIN, EVA

A generic F-theory compactification containing many D3 branes develops multiple brane throats. The interaction of observers residing inside different throats involves tunneling suppression and as a result, is very weak. This suggests a new mechanism for generating small numbers in Nature. One application is to the hierarchy problem: large supersymmetry breaking near the unification scale inside a shallow throat causes TeV-scale SUSY-breaking inside the standard-model throat. Another application, inspired by nuclear-decay, is in designing naturally long-lived particles: a cold dark matter particle residing near the standard model brane decays to an approximate CFT-state of a longer throat within a Hubble time. This suggests that most of the mass of the universe today could consist of CFT-matter and may soften structure formation at sub-galactic scales. The tunneling calculation demonstrates that the coupling between two throats is dominated by higher dimensional modes and consequently is much larger than a naive application of holography might suggest.

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On the analysis of some equations concerning "Type I vacua with brane supersymmetry breaking". Mathematical connections with some parameters of Particle Physics and some sectors of Number Theory

by

Michele Nardelli

In this research thesis, we analyze some equations concerning-Type I vacua with brane supersymmetry breaking‖. We describe the mathematical connections with some parameters of Particle Physics and some sectors of Number Theory. (July 7 2020)

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On the theoretical framework concerning the motivations of the mathematical connections between various formulas of Ramanujan's mathematics and different parameters of Theoretical Physics and Cosmology: further observations. II

by

Michele Nardelli

In this paper, we have analyzed a fundamental modular equation for an initial theoretical framework concerning the motivations of the mathematical connections that are obtained between various formulas of Ramanujan's mathematics and different parameters of Theoretical Physics and Cosmology: further observations. (March 2020)

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[Foliation-Based Approach to Quantum Gravity and Applications to Astrophysics](#)

by

Inyong Park

The recently proposed holography-inspired approach to quantum gravity is reviewed and expanded. The approach is based on the foliation of the background spacetime and reduction of the offshell states to the physical states. Careful attention is paid to the boundary conditions. It is noted that the outstanding problems such as the cosmological constant problem and black hole information can be tackled from the common thread of the quantized gravity. One-loop renormalization of the coupling constants and the beta function analysis are illustrated. Active galactic nuclei and gravitational waves are discussed as the potential applications of the present quantization scheme to astrophysics.

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[On the Ramanujan's mathematics applied to some parameters of Extended Gauged Supergravity, Inflaton Potentials and some sectors of String Theory: New possible mathematical connections.](#)

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In this research thesis, we have described some Ramanujan expressions applied to several parameters of Extended Gauged Supergravity, Inflaton Potentials and some sectors of String Theory, obtaining new possible mathematical connections. (February 2020)

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[New Semiclassical Non-Abelian Vertex Operators for Chiral and Nonchiral WZW Theory](#)

by

Halpern, M. B., Obers, N. A.

We supplement the discussion of Moore and Reshetikhin and others by finding new semiclassical non-Abelian vertex operators for the chiral, antichiral and nonchiral primary fields of WZW theory. These new non-Abelian vertex operators are the natural generalization of the familiar Abelian vertex operators: they involve only the representation matrices of Lie g, the currents of affine (g × g) and certain chiral and antichiral zero modes, and they reduce to the Abelian vertex operators in the limit of Abelian algebras. Using the new constructions, we also discuss semiclassical operator product expansions, braid relations and relations to the known form of the semiclassical affine-Sugawara conformal blocks.

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...our colleagues: A. Alekseev, L. Alvarez-Gaum´e, J. de Boer, E. Kiritsis, N. Reshetikhin, P. Roche, **A. Sagnotti** and S. Shatashvili. We also thank the theory group at CERN for hospitality and support during the c...

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...tional SO(8) lattice. 4 Acknowledgments It is a pleasure to thank I. Antoniadis, K. F¨orger and **A. Sagnotti** for interesting discussions. I would also like to thank the Organizers of the Carg`ese Summer Scho...

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On the analysis of some equations concerning String Theory: mathematical connections with some parameters of Particle Physics and some sectors of Number Theory

by

Michele Nardelli

In this research thesis, we analyze some equations concerning Strings Theory. We describe the mathematical connections with some parameters of Particle Physics and some sectors of Number Theory. (July 6 2020)

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...ious equations was carried out according an our possible logical and original interpretation 2 From **On tadpoles and vacuum redefinitions in String Theory** E. Dudas, M. Nicolosi, G. Pradisi and A. Sagnotti − arXiv:hep-th/0410101v4 13 Dec 2004 We have that...

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F-THEORY FLUXES, CHIRALITY AND CHERN-SIMONS THEORIES

by

HIROTAKA HAYASHI

We have established a relation between the four-dimensional chiral index in F-theory compactifications and the three-dimensional Chern-Simons coupling in M-theory compactifications by using F-theory - M-theory duality. The content of this article is based on our recent paper,1 which is in collaboration with Thomas W. Grimm.

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2-branes with Arnold-Beltrami fluxes from minimal D=7 supergravity

by

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...th our colleagues and friends, L. Andrianopoli, L. Castellani, R. D'Auria, S. Ferrara, P.A. Grassi, **A. Sagnotti** and M. Trigiante. We thank them warmheartedly. The work of A.S. was partially supported by the RFBR...

N = 1 $$ \mathcal{N}=1 $$ superfield description of BPS solutions in 6D gauged SUGRA with 3-branes

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On the analysis of some equations concerning the "Inflation after the initial Climbing Phase": mathematical connections with some parameters of Particle Physics and some sectors of Number Theory. II

by

Michele Nardelli

In this research thesis (part II), we analyze some equations concerning the topic-Inflation after the initial Climbing Phase‖ and we describe the mathematical connections with some parameters of Particle Physics and some sectors of Number Theory. (July 5 2020)

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The dimensionful nature of the coupling in the Einstein−Hilbert action in four dimensions implies that the theory is non-renormalizable; explicit calculation shows that beginning at two loop order, divergences arise that cannot be removed by renormalization without introducing new terms in the classical action. It has been shown that, by use of a Lagrange multiplier field to ensure that the classical equation of motion is satisfied in the path integral, radiative effects can be restricted to one-loop order. We show that by use of such Lagrange multiplier fields, the Einstein−Hilbert action can be quantized without the occurrence of non-renormalizable divergences. We then apply this mechanism to a model in which there is in addition to the Einstein−Hilbert action, a fully covariant action for a self-interacting scalar field coupled to the metric. It proves possible to restrict loop diagrams involving internal lines involving the metric to one-loop order; diagrams in which the scalar field propagates occur at arbitrary high order in the loop expansion. This model also can be shown to be renormalizable. Incorporating spinor and vector fields in the same way as scalar fields is feasible, and so a fully covariant Standard Model with a dynamical metric field can also be shown to be renormalizable.

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Quantum gravity, renormalizability and diffeomorphism invariance

by

Tim Morris

We show that the Wilsonian renormalization group (RG) provides a natural regularisation of the Quantum Master Equation such that to first order the BRST algebra closes on local functionals spanned by the eigenoperators with constant couplings. We then apply this to quantum gravity. Around the Gaussian fixed point, RG properties of the conformal factor of the metric allow the construction of a Hilbert space \Ll of renormalizable interactions, non-perturbative in \hbar$h$, and involving arbitrarily high powers of the gravitational fluctuations. We show that diffeomorphism invariance is violated for interactions that lie inside \Ll, in the sense that only a trivial quantum BRST cohomology exists for interactions at first order in the couplings. However by taking a limit to the boundary of \Ll, the couplings can be constrained to recover Newton's constant, and standard realisations of diffeomorphism invariance, whilst retaining renormalizability. The limits are sufficiently flexible to allow this also at higher orders. This leaves open a number of questions that should find their answer at second order. We develop much of the framework that will allow these calculations to be performed.

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On the analysis of some equations concerning the "Inflation after the initial Climbing Phase": mathematical connections with some parameters of Particle Physics and some sectors of Number Theory

by

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In this research thesis, we analyze some equations concerning the topic "Inflation after the initial Climbing Phase" and we describe the mathematical connections with some parameters of Particle Physics and some sectors of Number Theory. (July 2020)

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On the possible mathematical connections between Ramanujan equations, expressions concerning "Pre-Inflationary Climbing Phase" and some sectors of Number Theory

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On various Ramanujan continued fractions: mathematical connections with some sectors of Particle physics concerning like-particle solutions and dilaton value

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On the possible mathematical connections between Ramanujan formulas, equations concerning Primordial Black Holes and Inflation, Quantum Theory of Fields and some sectors of Number Theory.

by

Michele Nardelli

In this research thesis, we describe and analyze the possible mathematical connections between Ramanujan formulas, equations concerning Primordial Black Holes and Inflation, Quantum Theory of Fields and some sectors of Number Theory. UPDATED VERSION 30.06.2020

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...[12, 13]. Acknowledgments It is a pleasure to thank G. Pradisi for a stimulating collaboration and **A. Sagnotti** for introducing me to these topics. I am also grateful to the Organizers of the Carg`ese 2002 ASI f...

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On some new mathematical connections between various equations of the Bouncing Cosmology, the Cosmological Constraints concerning the Dilaton Inflation and some sectors of Number Theory, principally the Rogers-Ramanujan continued fractions and the Ramanujan's mock theta functions

by

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In this research thesis, we have analyzed some parts of Ramanujan's Manuscripts and obtained new mathematical connections between several Ramanujan's equations, the Rogers-Ramanujan continued fractions and the Dilaton value. (November 2019)

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Exact effective interactions and 1/4-BPS dyons in heterotic CHL orbifolds

by

Guillaume Bossard, Charles Cosnier-Horeau, Boris Pioline

Motivated by precision counting of BPS black holes, we analyze six-derivative couplings in the low energy effective action of three-dimensional string vacua with 16 supercharges. Based on perturbative computations up to two-loop, supersymmetry and duality arguments, we conjecture that the exact coefficient of the $\nabla^2(\nabla\phi)^4\nabla^2(\nabla\phi)4$ effective interaction is given by a genus-two modular integral of a Siegel theta series for the non-perturbative Narain lattice times a specific meromorphic Siegel modular form. The latter is familiar from the Dijkgraaf-Verlinde-Verlinde (DVV) conjecture on exact degeneracies of 1/4-BPS dyons. We show that this Ansatz reproduces the known perturbative corrections at weak heterotic coupling, including tree-level, one- and two-loop corrections, plus non-perturbative effects of order $e^{-1/g_3^2}e{-1/g32}$. We also examine the weak coupling expansions in type I and type II string duals and find agreement with known perturbative results, . In the limit where a circle in the internal torus decompactifies, our Ansatz predicts the exact $\nabla^2 F^4\nabla2F4$ effective interaction in four-dimensional CHL string vacua, along with infinite series of exponentially suppressed corrections of order $e^{-R}e{-R}$ from Euclideanized BPS black holes winding around the circle, and further suppressed corrections of order $e^{-R^2}e{-R2}$ from Taub-NUT instantons. We show that instanton corrections from 1/4-BPS black holes are precisely weighted by the BPS index predicted from the DVV formula, including the detailed moduli dependence. We also extract two-instanton corrections from pairs of 1/2-BPS black holes, demonstrating consistency with supersymmetry and wall-crossing, and estimate the size of instanton-anti-instanton contributions.

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On some Ramanujan equations: new possible mathematical connections with Phi, zeta(2), Hausdorff dimension values, several equations of Teleparallel Cosmology and Higher-Spin Interactions in String Theory

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On some Ramanujan equations: new possible mathematical connections with Phi, zeta(2), Hausdorff dimension values, several equations of D-branes, Strings and Higher-Spins

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A model for massless higher spin field interacting with a geometrical background
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We study a very general four-dimensional field theory model describing the dynamics of a massless higher spin N symmetric tensor field particle interacting with a geometrical background. This model is invariant under the action of an extended linear diffeomorphism. We investigate the consistency of the equations of motion, and the highest spin degrees of freedom are extracted by means of a set of covariant constraints. Moreover, the highest spin equations of motions (and in general all the highest spin field 1-PI irreducible Green functions) are invariant under a chain of transformations induced by a set of N - 2 Ward operators, while the auxiliary fields equations of motion spoil this symmetry. The first steps to a quantum extension of the model are discussed on the basis of the algebraic field theory. Technical aspects are reported in Appendices, in particular, one of them is devoted to illustrate the spin-2 case.

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We analyze the group of maximal automorphisms of the N-extended worldline supersymmetry algebra, and its action on off-shell supermultiplets. This defines a concept of &amp;amp;quot;holoraumy&amp;amp;quot; that extends the notions of holonomy and curvature in a novel way and provides information about the geometry of the supermultiplet field-space. In turn, the &amp;amp;quot;holoraumy&amp;amp;quot; transformations of 0-brane dimensionally reduced supermultiplets provide information about Lorentz transformations in the higher-dimensional space−time from which the 0-brane supermultiplets are descended. Specifically, Spin(3) generators are encoded within 0-brane &amp;amp;quot;holoraumy&amp;amp;quot; tensors. Worldline supermultiplets are thus able to holographically encrypt information about higher-dimensional space−time geometry.

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On the possible mathematical connections between Ramanujan formulas, equations concerning Feynman Rules of Quantum Field Theory, formulas of fermionic higher-spin fields and some sectors of Number Theory. II

by

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In this research thesis, we describe and analyze the possible mathematical connections between Ramanujan formulas, equations concerning Feynman Rules of Quantum Field Theory, formulas of fermionic higher-spin fields and some sectors of Number Theory.

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On the possible relationships between several Ramanujan formulas, some equations concerning the Higher Spins Fields in String Theory and some sectors of Number Theory.

by

Michele Nardelli

In this paper, we describe and analyze the possible relationships between several Ramanujan formulas, some equations concerning the Higher Spins Fields in String Theory and some sectors of Number Theory.

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Harmonic Superspace Approach to the Effective Action in Six-Dimensional Supersymmetric Gauge Theories

by

Ioseph Buchbinder, Evgeny Ivanov, Boris Merzlikin, Konstantin Stepanyantz

We review the recent progress in studying the quantum structure of 6 D , N = (1 , 0) , and N = (1 , 1) supersymmetric gauge theories formulated through unconstrained harmonic superfields. The harmonic superfield approach allows one to carry out the quantization and calculations of the quantum corrections in a manifestly N = (1 , 0) supersymmetric way. The quantum effective action is constructed with the help of the background field method that secures the manifest gauge invariance of the results. Although the theories under consideration are not renormalizable, the extended supersymmetry essentially improves the ultraviolet behavior of the lowest-order loops. The N = (1 , 1) supersymmetric Yang−Mills theory turns out to be finite in the one-loop approximation in the minimal gauge. Furthermore, some two-loop divergences are shown to be absent in this theory. Analysis of the divergences is performed both in terms of harmonic supergraphs and by the manifestly gauge covariant superfield proper-time method. The finite one-loop leading low-energy effective action is calculated and analyzed. Furthermore, in the Abelian case, we discuss the gauge dependence of the quantum corrections and present its precise form for the one-loop divergent part of the effective action.

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On some Ramanujan formulas: mathematical connections with Phi , ζ(2) and several parameters of Quantum Geometry, String Theory and Cosmology. III

by

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On some Ramanujan formulas: mathematical connections with Phi and several parameters of Quantum Geometry, String Theory and Particle Physics. II

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On some Ramanujan formulas: mathematical connections with Phi and several parameters of Quantum Geometry of Space, String Theory and Particle Physics (f0(1710) scalar meson)

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...logy" for the kind invitation. It is a pleasure to thank M. Larosa for the enjoyable collaboration, **A. Sagnotti** for the many discussions and collaboration at early stages of this research and C. Angelantonj, M....

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In this paper, we describe and analyze new possible relationships between some Ramanujan formulas, equations concerning some sectors of String Theory (String Cosmology), various parameters regarding Particle Physics and Number Theory (Updated version 23.06.2020)

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On the new possible relationships between several Ramanujan formulas, equations concerning some sectors of String Theory (String Cosmology), various parameters regarding Particle Physics, ϕ, ζ(2), 8 and his multiples. II

by

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In this paper (part II), we describe and analyze new possible relationships between some Ramanujan formulas, equations concerning some sectors of String Theory (String Cosmology), various parameters regarding Particle Physics, ϕ, ζ(2), 8 and his multiples.

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On the Ramanujan's mathematics (Rogers-Ramanujan continued fractions, Hardy-Ramanujan number and Manuscript Book 1 formulae) applied to various sectors of String Theory: Further new possible mathematical connections XIII

by

Michele Nardelli

In this research thesis, we have analyzed and deepened further Ramanujan expressions (Rogers-Ramanujan continued fractions, Hardy-Ramanujan number and Manuscript Book 1 formulae) applied to some sectors of String Theory. We have therefore described other new possible mathematical connections. (paper written in January 2020)

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Further relationships between several Ramanujan formulas, equations concerning some sectors of String Theory (String Cosmology), various parameters regarding Particle Physics, ζ(2), 8 and his multiples.

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In this paper we describe and analyze some Ramanujan expressions. Furthermore, we have obtained several mathematical connections with Phi, ζ(2) and various topics and parameters of LQG, Open Strings and Particle Physics.

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On various Ramanujan formulas applied to some sectors of String Theory and Particle Physics: Further new possible mathematical connections III

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In this research thesis, we have analyzed and deepened various Ramanujan expressions applied to some sectors of String Theory and Particle Physics. We have therefore described further new possible mathematical connections.

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On the possible mathematical connections between several Ramanujan equations concerning the "Lost Notebook" and the Modular j-invariant, some equations concerning the SO(2^13) group in Bosonic String Theory, various parameters regarding Particle Physics, ϕ and $\zeta(2)$. IX

by

Michele Nardelli

In this paper (part IX), we describe and analyze further new mathematical connections between some Ramanujan formulas concerning the "Lost Notebook" and the Modular j-invariant, several equations concerning the SO(2^13) group, in Bosonic String Theory, various parameters regarding Particle Physics, and $\zeta(2)$. IX

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Generalization of the Yang−Mills theory

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We suggest an extension of the gauge principle which includes tensor gauge fields. In this extension of the Yang−Mills theory the vector gauge boson becomes a member of a bigger family of gauge bosons of arbitrary large integer spins. The proposed extension is essentially based on the extension of the Poincaré algebra and the existence of an appropriate transversal representations. The invariant Lagrangian is expressed in terms of new higher-rank field strength tensors. It does not contain higher derivatives of tensor gauge fields and all interactions take place through three- and four-particle exchanges with a dimensionless coupling constant. We calculated the scattering amplitudes of non-Abelian tensor gauge bosons at tree level, as well as their one-loop contribution into the Callan−Symanzik beta function. This contribution is negative and corresponds to the asymptotically free theory. Considering the contribution of tensorgluons of all spins into the beta function we found that it is leading to the theory which is conformally invariant at very high energies. The proposed extension may lead to a natural inclusion of the standard theory of fundamental forces into a larger theory in which vector gauge bosons, leptons and quarks represent a low-spin subgroup. We consider a possibility that inside the proton and, more generally, inside hadrons there are additional partons — tensorgluons, which can carry a part of the proton momentum. The extension of QCD influences the unification scale at which the coupling constants of the Standard Model merge, shifting its value to lower energies.

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On the possible mathematical connections between several Ramanujan equations concerning p(n) and τ(n), some equations concerning the SO(N) group in Bosonic String Theory, various parameters regarding Particle Physics and ζ(2). VIII

by

Michele Nardelli

In this paper (part VIII), we describe and analyze further new mathematical connections between some Ramanujan formulas concerning p(n) and τ(n), several equations concerning the SO(N) group, for N = 8192, in Bosonic String Theory, various parameters regarding Particle Physics and ζ(2).

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...connections between several Ramanujan equations concerning p(n) and τ(n), some equations concerning **the Partition Function of the SO(8192) bosonic string**, various parameters regarding Particle Physics, ϕ and ζ(2). VII − Michele Nardelli, Antonio Nardel...

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On the possible mathematical connections between several Ramanujan equations concerning p(n) and τ(n), some equations concerning the Partition Function of the SO(8192) bosonic string, various parameters regarding Particle Physics, φ and ζ(2). VII

by

Michele Nardelli

In this paper (part VII), we describe and analyze further new mathematical connections between some Ramanujan formulas concerning p(n) and τ(n), several equations concerning the Partition Function of the SO(8192) bosonic string various parameters regarding Particle Physics, and ζ(2).

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...connections between several Ramanujan equations concerning p(n) and τ(n), some equations concerning **the Partition Function of the SO(8192) bosonic string**, various parameters regarding Particle Physics, φ and ζ(2). VII Michele Nardelli1, Antonio Nardell...

R-parity violating decays of Wino chargino and wino neutralino LSPs and NLSPs at the LHC

by

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Sigma-model anomalies in compact D=4, N=1 Type IIB orientifolds and Fayet−Iliopoulos terms

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Quantum Gravity Emergence from Entanglement in a Multi-Fold Universe

by

Stephane H . Maes

We start from a hypothetical multi-fold universe U M F , where the propagation of everything is slower or equal to the speed of light and where entanglement extends the set of paths available to Path Integrals. This multi-fold mechanism enables EPR (Einstein-Podolsky-Rosen) "spooky actions at distance" to result from local interactions in the resulting folds. It produces gravity-like attractive effective potentials in the spacetime, between entangled entities, that are caused by the curvature of the folds. When quantized, multi-folds correspond to gravitons and they are enablers of EPR entanglement. Gravity emerges non-perturbative and covariant from EPR entanglement between virtual particles surrounding an entity. In U M F , we encounter mechanisms that predict gravity fluctuations when entanglement is present, including in macroscopic entanglements. Besides providing a new perspective on quantum gravity, when added to the Standard Model and Standard Cosmology, U M F can contribute explanations of several open questions and challenges. It also clarifies some relationships and challenges met by other quantum gravity models and Theories of Everything. It leads to suggestions for these works. We also reconstruct the spacetime of U M F , starting from the random walks of particles in an early spacetime. U M F now appears as a noncommutative, discrete, yet Lorentz symmetric, spacetime that behaves roughly 2-Dimensional at Planck scales, when it is a graph of microscopic Planck size black holes on a random walk fractal structure left by particles that can also appear as also microscopic black holes. Of course, at larger scales, spacetime appears 4-D, where we are able to explain curvature and recover Ein-stein's General Relativity. We also discover an entanglement gravity-like contributions and massive gravity at very small scales. This is remarkable considering that no Hilbert Ein-stein action, or variations expressing area invariance, were introduced. Our model also explains why semi classical approaches can work till way smaller scale than usually expected and present a new view on an Ultimate Unification of all forces, at very small scales. We also explore opportunities for falsifiability and validation of our model, as well as ideas for futuristic applications that may be worth considering, if U M F was a suitable model for our universe U real. *

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T-duality, space-time spinors and R−R fields in curved backgrounds

by

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...ike to thank C. Angelantonj, I. Antoniadis, A. Dhar, K. F¨orger, D. Ghoshal, D. Jatkar, B. Pioline, **A. Sagnotti**, and A. Sen for many useful discussions during the course of this work. Appendix A Γ-Matrix Conve...

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The R-parity violating decays of charginos and neutralinos in the B-L MSSM

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[Integrable scalar cosmologies with matter and curvature](#)

by

[Davide Fermi](#), Massimo Gengo

We show that several integrable (i.e., exactly solvable) scalar cosmologies considered by Fré, Sagnotti and Sorin (Nuclear Physics B 877(3) (2013), 1028-1106) can be generalized to include cases where the spatial curvature is not zero and, besides a scalar field, matter or radiation are present with an equation of state $p\,(m) = w\,\rho\,(m)$; depending on the specific form of the self-interaction potential for the field, the constant w can be arbitrary or must be fixed suitably.

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[On the Necessity of Phantom Fields for Solving the Horizon Problem in Scalar Cosmologies](#)

by

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We discuss the particle horizon problem in the framework of spatially homogeneous and isotropic scalar cosmologies. To this purpose we consider a Friedmann-Lemaître-Robertson-Walker (FLRW) spacetime with possibly non-zero spatial sectional curvature (and arbitrary dimension), and assume that the content of the universe is a family of perfect fluids, plus a scalar field that can be a quintessence or a phantom (depending on the sign of the kinetic part in its action functional). We show that the occurrence of a particle horizon is unavoidable if the field is a quintessence, the spatial curvature is non-positive and the usual energy conditions are fulfilled by the perfect fluids. As a partial converse, we present three solvable models where a phantom is present in addition to a perfect fluid, and no particle horizon appears.

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