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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

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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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Barton Zwiebach - A First Course in String Theory - Cambridge University - Press 2009
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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.
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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 ζ(2).
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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 ζ(2). REVISITED AND UPDATED VERSION 17.03.2021
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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
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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
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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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On some equations concerning the Quantum Field Theory. 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 the Quantum Field Theory and the new possible mathematical connections with various sectors of String Theory and Number Theory
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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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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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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
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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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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.
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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.
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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.
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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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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.
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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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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
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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
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On the possible analysis of further equations concerning Open strings and Supersymmetry breaking revisited. Mathematical connections with various sectors of Number Theory.

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

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Toshiya Imoto

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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

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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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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

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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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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

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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.

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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:

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

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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.

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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

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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.

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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.

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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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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.
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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)) ...

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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Towards massless sector of tensionless strings on AdS5
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Alexey Sharapov, Evgeny Skvortsov, Tung Tran

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

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On the new possible mathematical connections between some parameters of Number Theory, the integration of the equation ∆2 ∆2 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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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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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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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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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

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Withers, Benjamin

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On various equations regarding (A)dS exchanges and partially-massless higher spins and Supersymmetry Breaking: new possible mathematical connections with ϕ, ζ(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, ζ(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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Strong coupling dynamics of branes from M-theory

by

Sen, Ashoke

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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 ζ(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
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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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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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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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Dynamically equivalent Λ CDM equations with underlying Bianchi Type geometry
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T. Pailas, T. Christodoulakis
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...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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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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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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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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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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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 the Ramanujan's equations revisited: new mathematical connections with various sectors of String Theory, Supersymmetry Breaking, Particle Physics and Cosmology
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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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On the Ramanujan's equations applied to various sectors of Particle Physics, String Theory, Supersymmetry Breaking and Cosmology: new possible mathematical connections
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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, String Theory, Supersymmetry Breaking and Cosmology v2 - 12.02.2021
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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
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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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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.

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)) ...

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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...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 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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...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 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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...$\mathbf{7352243}$ = $\boldsymbol{\phi}$ 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 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 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: (-0.000081748169945138782224510927011 62)/(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 ζ(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 ξ = 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
by
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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...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 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

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, 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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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 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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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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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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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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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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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

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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 ζ(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 ζ(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

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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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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:

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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)

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...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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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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Anomalies and the Euler characteristic of elliptic Calabi–Yau threefolds

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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 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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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:
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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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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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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

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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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...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 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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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
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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 , 2 , and various parameters of High Energy Physics, Supersymmetry Breaking and String Theory v2 - 19.01.2021
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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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Classification of String Theories via Topological Phases
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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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...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)) ...

Five-dimensional supergravity in N = 1/2 superspace
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Katrin Becker, Melanie Becker, Daniel Butter, William D. Linch, Stephen Randall
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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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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.

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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)) ...

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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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.

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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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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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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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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

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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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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

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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

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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

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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...

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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 ζ(2) revisited
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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
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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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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. v2 - 07.01.2021
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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
by
Michele Nardelli
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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 study and development of various equations regarding "Open Strings". New possible mathematical connections with some parameters of Particle Physics and several sectors of String Theory and Number Theory
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In this research thesis, we analyze some equations concerning "Open Strings". We describe the new possible mathematical connections with various parameters of Particle Physics and some sectors of String Theory and Number Theory. v2 - 06.01.2021
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...**7352243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 68 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 new possible mathematical connections between various equations regarding the Brane Supersymmetry Breaking, some parameters of Particle Physics and several sectors of String Theory and Number Theory revisited

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...the various equations was carried out according an our possible logical and original interpretation **Type I vacua with brane supersymmetry breaking** C. We have that: From (3.5), for: η = -3 ; ϑ 2 = 1 ϑ 3 = 2 ; ϑ 4 = 2 and v = 2π 2 ; ψ = 3i ; = 0....

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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

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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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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

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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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...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...

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

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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

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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 ζ(2) and some expressions concerning the mass of some particles. REVISITED VERSION 04.01.2021

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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

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

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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, 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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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

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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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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

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

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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
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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
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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 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
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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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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

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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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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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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

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

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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

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In this research thesis, we analyze some equations concerning the topic-Inflation after the initial Climbing Phasell 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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Further new possible mathematical connections between some Ramanujan expressions and various parameters of Particle Physics, String Theory, ϕ and $\zeta(2)$.

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 $\zeta(2)$. 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 $\zeta(2)$ revisited

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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
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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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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
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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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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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Rodrigo Aros, Fabrizzio Bugini, Danilo E. Díaz
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Inflation and leptogenesis in high-scale supersymmetry
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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)
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Further mathematical connections between some Ramanujan equations concerning p(n) and τ(n), several equations concerning Mock modularity, JT Gravity, various parameters concerning Particle Physics, String Theory, ϕ and ζ(2)

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On the 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 ζ(2)

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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 ζ(2). UPDATED VERSION 23.12.2020

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...$7352243 = \phi$ 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 τ(n), various parameters and sectors concerning Particle Physics, String Theory, ϕ and ζ(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 τ(n), various parameters and sectors concerning Particle Physics, String Theory, ϕ and ζ(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 ζ(2)

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On asymptotic symmetries in higher dimensions for any spin

by

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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 ζ(2)

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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 ζ(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 ζ(2)

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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 ζ(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 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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Proton decay via dimension-six operators in intersecting D6-brane models

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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

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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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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 ζ(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 ζ(2). REVISITED AND DEFINITIVE VERSION 20.12.2020 Below the link of the continuation of this work:

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

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

by

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

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Point-like instantons and the heterotic string

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

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

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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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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)

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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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Morrison, David R., Vafa, Cumrun
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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
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Analyzing several Ramanujan Partition Congruences revisited: mathematical connections with ϕ, ζ(2) and various Fractal Hausdorff Dimensions values. II
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On some Asymptotic Formulas and Ramanujan Identities revisited: mathematical connections with ϕ, ζ(2) and various Fractal Hausdorff Dimensions values. I
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On some Ramanujan equations: mathematical connections with various formulas concerning some topics of Cosmology and Black Holes/Wormholes Physics. VII
by

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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
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On various Ramanujan formulas applied to some sectors of String Theory (open strings) and Particle Physics revisited: Further new possible mathematical connections IV
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D-brane probes, RR tadpole cancellation and K-theory charge
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Uranga, Angel M.
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... 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
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On the analysis of some elliptic solutions of a nonlinear partial differential equation. Possible mathematical connections with some sectors of String Theory. II
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On various Ramanujan formulas applied to some sectors of String Theory and Particle Physics: Further new possible mathematical connections
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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
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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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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
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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
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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
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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
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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
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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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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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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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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, "Nonperturbative 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
https://www.academia.edu/44621627/On_some_second_order_differential_equations_of_parabolic_type_Heat_Equation_Possible_mathematical_connections_with_some_eq
more ▾

...- Srinivasa Ramanujan Quarterly Journal of Mathematics, XLV, 1914, 350 – 372 We have that: 91 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 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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...$\mathbf{117352243} = \boldsymbol{\phi}$ 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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...$\mathbf{117352243} = \boldsymbol{\phi}$ 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

more ▾

...$\mathbf{7352243} = \boldsymbol{\phi}$ 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

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

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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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...$\mathbf{117352243} = \boldsymbol{\phi}$ 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...

HIGHLY CITED

Asymptotic freedom and infrared behavior in the type 0 string approach to gauge theory

by

Klebanov, Igor R., Tseytlin, Arkady A.

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...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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...$\mathbf{117352243} = \boldsymbol{\phi}$ 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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...$\mathbf{7352243} = \boldsymbol{\phi}$ 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

by

Barnich, Glenn, Bekaert, Xavier, Grigoriev, Maxim

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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 February 2016 REVISITED AND UPDATED VERSION 25.11.2020

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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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...Journal of Mathematics, XLV, 1914, 350 – 372 We have that: Torino, 17/02/2016 Pagina 35 di 42 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 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.

more ▾

...$\mathbf{7352243}$ = $\boldsymbol{\phi}$ 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.

more ▾

...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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Anti-de-Sitter D-branes

by

Bachas, Constantin, Petropoulos, Marios

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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 .....

HIGHLY CITED

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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...atrix Model: A Conjecture", hep-th/9610043. C.M. Hull, Nucl. Phys. B468 (1996) 113, hep-th/9512181. **A. Sagnotti**, in Cargese '87, "Non-perturbative Quantum Field Theory" ed. G. Mack et. al. (Pergamon Press, 1988)...

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.

more ▾

...$\mathbf{7352243} = \boldsymbol{\phi}$ and to the value of the following Rogers-Ramanujan continued fraction: 59 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...

Metric Lagrangians with two propagating degrees of freedom

by

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.

more ▾

...$\mathbf{117352243} = \boldsymbol{\phi}$ 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 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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...$\mathbf{7352243} = \boldsymbol{\phi}$ 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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...We have that: Versione 1.0 30/01/2014 Pagina 43 di 51 Versione 1.0 30/01/2014 Pagina 44 di 51 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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Brane intersections, anti-de Sitter space-times and dual superconformal theories

by

Jan Boonstra, Harm, Boonstra, Harm Jan, Peeters, Bas, Skenderis, Kostas

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

...d corrections to the large N Wilson loop, hep-th/9803220. I. Antoniadis, C. Bachas and A. Sagnotti, **Gauged supergravity vacua in string theory**, Phys. Lett. B235 (1990) 255; S.B. Giddings, J. Polchinski and A. Strominger, Four-dimensional blac...

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

more ▾

...$\mathbf{3} = \boldsymbol{\phi}$ 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*...

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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...al of Mathematics, XLV, 1914, 350 – 372 We have that: Versione 1.0 31/03/2014 Pagina 38 di 29 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 Higher-Spin Fields 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 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)...

HIGHLY CITED

Discrete gauge symmetries in discrete MSSM-like orientifolds

by

Ibáñez, L.E., Schellekens, A.N., Uranga, A.M.

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

...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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...thematics, XLV, 1914, 350 – 372 - Srinivasa Ramanujan - Quarterly Journal of We have that: 16 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 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

Michele Nardelli

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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Partition functions of NAHE-based free fermionic string models

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Faraggi, Alon E.

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...[5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 13 [16] For a review see e.g.: C. Angelantonj and **A. Sagnotti**, hep-th/0204089. [17] [18] 14 D.J. Gross, J.A. Harvey, J.A. Martinec and R. Rohm, Phys. Rev. Lett. ...

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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...**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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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

Michele Nardelli

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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Michele Nardelli

In this research thesis, 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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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

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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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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

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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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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.

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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 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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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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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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...**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: 136...
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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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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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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.

by

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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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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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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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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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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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
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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. 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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On some equations concerning Integrable Scalar Cosmologies and Supersymmetry. Possible mathematical connections with various equations regarding Ramanujan mathematics.
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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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On the Einstein-Hilbert action: possible mathematical connections with several equations regarding some sectors of Ramanujan mathematics, String Theory and Supersymmetry

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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

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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

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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

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Caccioppoli's mathematics revisited: possible mathematical connections with some Ramanujan equations and some sectors of String Theory and Supersymmetry

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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

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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
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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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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).
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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 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

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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

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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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...**52243** = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 43 From [11] **AdS Vacua from Dilaton Tadpoles and Form Fluxes** March 27, 2018 J. Mourad and A. Sagnotti - arXiv:1612.08566v2 [hep-th] 22 Feb 2017 We have: For ξ=1...

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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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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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Mathematical connections between some expressions regarding "Automorphic Forms and Fermion Masses", Supersymmetry and some Ramanujan's equations.
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On the various Ramanujan's equations and the possible mathematical connections with some sectors of Particle Physics and String Theory
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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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On the links between some Ramanujan formulas, the golden ratio and various equations of several sectors of Black Hole Physics
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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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Mathematical connections between various formulas of "One-loop divergences of quantized Kaluza-Klein-Jordan-Thiry theory", Supersymmetry and some Ramanujan's equations. II
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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. 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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Mathematical connections between various formulas of "One-loop divergences of quantized Kaluza-Klein-Jordan-Thiry theory", Supersymmetry and some Ramanujan's equations. II

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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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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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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 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

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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 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

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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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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

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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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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

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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

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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
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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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by
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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
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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
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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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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
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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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... = ϕ and to the value of the following Rogers-Ramanujan continued fraction: 47 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*...

Strings, Branes and Extra Dimensions
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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.
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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

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Квантовая космология материи нескольких скалярных полей: некоторые точные решения

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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

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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.

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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
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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
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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.
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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
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On the analysis of asymptotic formulas for the density of string states. Possible mathematical connections with the Hardy-Ramanujan partition formula.
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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
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Michele Nardelli
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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.
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On the Ramanujan's equations applied to various sectors of Particle Physics and Cosmology: new possible mathematical connections. VI
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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
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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
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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.

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BRST LAGRANGIAN CONSTRUCTION FOR SPIN- FIELD IN EINSTEIN SPACE
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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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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
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On the Polchinski's equation concerning the exact renormalization group. Mathematical connections with some sectors of Ramanujan mathematics, String Theory and Particle Physics
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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
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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
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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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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.
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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
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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
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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
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...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
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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:...
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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...
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...tsch. Phys. 62, 277 (2014) [arXiv:1401.1201 [hep-th]]. [24] I. Antoniadis, E. Dudas, S. Ferrara and **A. Sagnotti**, Phys. Lett. B 733, 32 (2014) [arXiv:1403.3269 [hep-th]]. [25] F. Farakos and R. von Unge, JHEP 140...
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
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Ramanujan's mathematics applied to several topics of Theoretical Physics and Cosmology
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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*...

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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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On some Ramanujan definite integrals: mathematical connections with ϕ, $\zeta(2)$, and various parameters of Particle Physics

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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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On some Ramanujan equations: mathematical connections with ϕ, ζ(2) , Monstrous Moonshine and various parameters of Particle Physics.

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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

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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

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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

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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

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Spinorial geometry, horizons and superconformal symmetry in six dimensions

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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

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CHIRAL N=1 4D ORIENTIFOLDS WITH D-BRANES AT ANGLES

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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}$2×Ω$\mathcal{R}$) case is discussed in detail. Other orbifolds including fractional D6-branes are treated briefly.

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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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On some Ramanujan equations: mathematical connections with ϕ and various expressions concerning Modified Gravity Theory. II

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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.

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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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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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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

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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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On some Ramanujan's functions: mathematical connections with various equations concerning some sectors of Particle Physics and Black Hole Physics. II
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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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On some equations concerning "Supersymmetric and 2d analogs of the SYK Model". Possible mathematical connections with various parameters of Ramanujan's expressions
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Mimura, Yukihiro, Nandi, S.
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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
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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.

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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 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
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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
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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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On some topics concerning Ramanujan Modular equations and approximations to : New possible mathematical connections with Open Strings and Supersymmetry Breaking. VI
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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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Interdependence between integrable cosmological models with minimal and non-minimal coupling
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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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...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

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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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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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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, SARKISSIAN, 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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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: https://www.academia.edu/43979068/Further_equations_concerning_the_Ramanujans_Collected_Papers_New_possible_mathematical_connections_with_Open_Strings_and_

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On the Ramanujan Taxicab numbers: new mathematical connections with some equations of Einstein Dilaton Gauss-Bonnet Gravity

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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

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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

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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

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Stable D8-branes and tachyon condensation in type 0 open string theory

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БРСТ-БВ-подход к безмассовым полям, адаптированный для АдС/КТП-соответствия

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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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On the mathematical connections between Phi, zeta(2), some Ramanujan equations and various parameters of String Theory Mathematics and Particle Physics.

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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
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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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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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On some equations regarding various parameters concerning the Pre- Inflationary Climbing Phase and pre-inflationary dynamics. Mathematical connections with some sectors of Number Theory
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...J. McDonald, JCAP 11, 012 (2014) 42. Y. Wang, Y.-Z. Ma. arXiv:1501.00282v1 (2015) 43. N. Kitazawa, **A. Sagnotti**, EPJ Web of Conferences 95, 03031 (2015) 44. N. Kitazawa, A. Sagnotti, Mod. Phys. Lett. A 30, 15501...

On some equations regarding Ramanujan's Lost Notebook: Mathematical connections with various parameters concerning the Primordial Black Holes and Pre-Inflationary Relics
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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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Brane annihilation in non-supersymmetric strings
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Riccardo Antonelli, Ivano Basile
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On various equations regarding JT Gravity and some sectors of String Theory: Mathematical connections with some topics concerning Number Theory
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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
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Michele Nardelli
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On some Ramanujan equations: mathematical connections with Prime Number Theorem, Phi, zeta(2) and various parameters of Particle Physics.
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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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Poisson-Lie T-duality: Open strings and D-branes

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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.

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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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On several equations regarding AdS/CFT correspondence and some sectors of String Theory: Further mathematical connections with some topics concerning Number Theory. VIII

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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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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)
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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

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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

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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.

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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

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

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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

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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
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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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New Semiclassical Non-Abelian Vertex Operators for Chiral and Nonchiral WZW Theory

by

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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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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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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

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On Restricting to One Loop Order the Radiative Effects in Quantum Gravity

by

F.T. Brandt, J. Frenkel, D.G.C. McKeon

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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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 \LI of renormalizable interactions, non-perturbative in \hbar$\hbar$, and involving arbitrarily high powers of the gravitational fluctuations. We show that diffeomorphism invariance is violated for interactions that lie inside \LI, 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 \LI, 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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...[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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Exact effective interactions and 1/4-BPS dyons in heterotic CHL orbifolds
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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∇2(∇ϕ)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∇2F4 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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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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...^1/15 Input: Result: 1.6438152287..... ≈ ζ(2) = = 1.644934 … From: Stringhe, Brane e (Super)Gravità - **Augusto Sagnotti** - Scuola Normale Superiore e INFN, Piazza dei Cavalieri 7, 56126 Pisa - Ithaca: Viaggio nella Scien...
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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 ζ(2). IX

by

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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 ζ(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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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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...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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