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Further relationships between several Ramanujan's mathematics parameters, some equations concerning the SO(2^13) group in Bosonic String Theory, various parameters regarding Particle Physics, ϕ and $\zeta(2)$

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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 revisited. II

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Teoria dei Numeri e Teoria di Stringa, ulteriori connessioni: Congettura (Teorema) di Polignac, Teorema di Goldston-Yldirim e relazioni con Goldbach e Numeri Primi Gemelli

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Analyzing several equations concerning the "Born-Infeld actions". New possible

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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 revisited (Supersymmetry Breaking)

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On the study of some types of integral and on several possible applications of the Cubic Equation to String Theory (type IIB and Heterotic). Mathematical connections between some parameters of Number Theory and various topics of Supersymmetry Breaking

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Feb 2017 We have: For $\xi = 1$ we obtain: (...

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Further equations related to Karatsuba's study of Riemann's zeta function revisited. Possible mathematical connections and applications to the some sectors of String Theory, String Cosmology and Ramanujan Mathematics

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Stringy instanton corrections to $\$ \mathcal{N} = 2 \\$ gauge couplings

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On some equations concerning the Casimir Effect Between World-Branes in Heterotic M-Theory and the Casimir effect in spaces with nontrivial topology.

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M²)/3*[1-(b/euler number * k/sqrt6) * (φ...

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... with a Cosmological Constant, Nucl. Phys. B 170 (1980) 480 [INSPIRE]. M.H. Goroff and A. Sagnotti, **The Ultraviolet Behavior of Einstein Gravity**, Nucl. Phys. B 266 (1986) 709 [INSPIRE]. S. Hossenfelder, Minimal Length Scale Scenarios for Quantu...

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Scopo del presente lavoro è quello di evidenziare le relazioni matematiche tra teoria di stringa e funzione zeta d... more 🔻

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Fermionization and boundary states in 1+1 dimensions

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In the last few years it was realized that every fermionic theory in 1+1 dimensions is a generalized Jordan-Wign... more •

..., Boundary conformal field theory, arXiv:hep-th/0411189. G. Pradisi, A. Sagnotti and Ya. S. Stanev, **The open descendants of non-diagonal SU(2) WZW models**, Phys. Lett. B 356, 230 (1995), doi:10.1016/0370-2693(95)00840-H. G. Pradisi, A. Sagnotti and Ya. S...

On various equations concerning the "Nonsingular Ekpyrotic Cosmology" and "S-Brane decay", β -decay theory and Supersymmetry Breaking. New possible mathematical connections with various sectors of Number Theory

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Physics at a future Neutrino Factory and super-beam facility

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...branes and the Standard Model Nucl. Phys. B 660 81–115 (arXiv:hep-th/0210263) [280] Sagnotti A 1992 **A note on the Green–Schwarz mechanism in open string theories** Phys. Lett. B 294 196–203 (arXiv:hep-th/9210127) [281] Ibanez L E, Rabadan R and Uranga A M 1999 An...

On various equations concerning the Orientifolds, some topics of "Nuclear Physics" and String Theory. New possible mathematical connections with various sectors of Number Theory. III

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De Sitter decay through goldstino evaporation

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We study supergravity theories with supersymmetry intrinsically non-linearly realized supported only by four-for... more v

...t. B 724 (2013) 322 [arXiv:1302.0866] [INSPIRE]. E. Dudas, S. Ferrara, A. Kehagias and A. Sagnotti,

Properties of nilpotent supergravity, JHEP 09 (2015) 217 [arXiv:1507.07842] [INSPIRE]. S. Kachru, R. Kallosh, A.D. Linde and S.P. Trived...

On various equations concerning the Orientifolds, some topics of "Nuclear Physics" and String Theory. New possible mathematical connections with various sectors of Number Theory. II

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PROPOSTA DI DIMOSTRAZIONE DELLA VARIANTE RIEMANN DI LAGARIAS (RH1) (Ed equivalente all'ipotesi di Riemann RH, con RH1 = RH)

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On the Riemann Hypothesis The conjecture "The non-trivial zeros of Riemann's zeta have all multiplicity 1" is true. Further mathematical connections with some sectors of string theory

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THE THEORY OF STRING: A CANDIDATE FOR A GENERALIZED UNIFICATION MODEL 1 (mathematical part

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INDIZI NUMERICI E FISICI PER UNA POSSIBILE DIMOSTRAZIONE FISICA DELL"IPOTESI DI RIEMANN

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In this research thesis, concerning the Srinivasa Ramanujan Manuscripts, we have analyzed various formulas, t... more v

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On several equations concerning the Symmetry and the Measure Theory linked to some possible Instanton/Soliton solutions. New mathematical connections with some equations of Supersymmetry Breaking and Number Theory

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Anomalies, anomalous U (1)'s and generalized Chern-Simons terms

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Abstract: A detailed analysis of anomalous U (1)'s and their effective couplings is performed both in field... more ▼

...IIB orientifolds," Nucl. Phys. B 536 (1998) 29 [ArXiv:hep-th/9804026]. M. Bianchi and A. Sagnotti, "On The Systematics Of Open String Theories," Phys. Lett. B 247 (1990) 517 and Nucl. Phys. B 361 (1991) 519. A. Sagnotti, "A Note on the Green-...

On the link between the structure of A-branes observed in the homological mirror symmetry and the classical theory of automorphic forms: mathematical connections with the modular elliptic curves, p-adic and adelic numbers and p-adic and adelic strings

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New mathematical connections concerning string theory: II

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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,
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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 and CMB data II.

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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)

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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.

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On the new possible mathematical connections between some parameters of Number Theory, the integration of the equation $\Delta 2$ $\Delta 2$ u=0 and some sectors of String Theory, Supersymmetry Breaking, the PMS data and FS based on Phi.

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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

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On the possible mathematical connections between some topics of Ramanujan's mathematics, ϕ , $\zeta(2)$ 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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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.

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

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On various Ramanujan's equations (Hardy-Ramanujan number, taxicab numbers, etc) linked to some parameters and sectors of Standard Model Particles,

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In this research thesis, we have analyzed and deepened further Ramanujan expressions (Rogers-Ramanujan co... more v

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

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On the new possible relationships between several Ramanujan formulas, equations concerning some sectors of String Theory (String Cosmology), various parameters regarding Particle Physics, ϕ , $\zeta(2)$, 8 and his multiples. II

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On the possible mathematical connections between several Ramanujan equations concerning p(n) and $\tau(n)$, some equations concerning the SO(N) group in Bosonic String Theory, various parameters regarding Particle Physics and $\zeta(2)$. VIII

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