Stanford

Renata Kallosh

Stanford W. Ascherman, MD Professor, Emerita

Physics

Curriculum Vitae available Online

CONTACT INFORMATION

- **Administrative Contact**

  SITP

  Email sitpadmin@lists.stanford.edu

Bio

BIO

What is the mathematical structure of supergravity/string theory and its relation to cosmology?

Professor Kallosh works on the general structure of supergravity and string theory and their applications to cosmology. Her main interests are related to the models early universe inflation and dark energy in string theory. She develops string theory models explaining the origin of the universe and its current acceleration. With her collaborators, she has recently constructed de Sitter supergravity, which is most suitable for studies of inflation and dark energy and spontaneously broken supersymmetry.

She is analyzing possible consequences of the expected new data from current and future cosmological observations, including LiteBIRD satellite CMB data. These results may affect the relationship between superstring theory and supergravity, and the real world. Professor Kallosh works, in particular, on future tests of string theory by CMB data and effective supergravity models with flexible amplitude of gravitational waves produced during inflation.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Physics

ADMINISTRATIVE APPOINTMENTS

- Professor of Physics, Stanford University, (1990- present)
- Junior Research Fellow, Lebedev Physical Institute, (1968-1981)
- Professor, Lebedev Physical Institute, (1981-1989)
- Coxeter Lecturer, Fields Mathematical Institute in Toronto, (2005-2005)
- Visiting Professorship, Kyoto Institute of Theoretical Physics, (2008-2008)

HONORS AND AWARDS

- Research Award, Humboldt International, Germany (2005 - 2008)
- Lise Meitner Prize, Gothenburg University and Chalmers (2009)
- Doctorate Honoris Causa, University of Groningen (2013)

- Elected a Member of American Academy of Art & Science, American Academy of Art & Science (2018)
- Lorentz chair 2017, Lorentz center Leiden University (Summer 2017)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- A member of advisory board, ICTP Trieste (2012 - 2019)
- A member of advisory board, Dutch scientific council in theoretical physics (2013 - 2019)
- Scientific Associate, CERN (1989 - 1990)

PROFESSIONAL EDUCATION

- Ph.D., Lebedev Physical Institute , Physics (1968)
- B.S., Moscow State University , Physics (1966)

LINKS

- Publications on arXiv: http://inspirehep.net/search?ln=en&p=a+kallosh&of=hb&action_search=Search&sf=earliestdate&so=d

Publications

PUBLICATIONS

- **Jordan frame in supergravity and cosmology** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R.
  2026
- **Anomaly cancellation and one-loop finiteness of 6D half-maximal supergravities** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R.
  2026
- **Singular α-attractors** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2026
- **Streamlined supergravity** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Linde, A.
  2026
- **BAO-CMB tension and implications for inflation** *PHYSICAL REVIEW D*
  Ferreira, E. G. M., Mcdonough, E., Balkenhol, L., Kallosh, R., Knox, L., Linde, A.
  2026; 113 (4)
- **Atacama Cosmology Telescope, South Pole Telescope, and Chaotic Inflation.** *Physical review letters*
  Kallosh, R., Linde, A., Roest, D.
  2025; 135 (16): 161001
- **Post-inflationary enhancement of adiabatic perturbations in modular cosmology** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Quaglia, R., Michelotti, M., Roest, D., Carrasco, J., Kallosh, R., Linde, A.
  2025
- **On the present status of inflationary cosmology** *GENERAL RELATIVITY AND GRAVITATION*
  Kallosh, R., Linde, A.
  2025; 57 (10)
- **Axion stabilization in modular cosmology** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Carrasco, J., Kallosh, R., Linde, A., Roest, D.
  2025

- **Double exponents in SL(2, Z) cosmology** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2025
- **Landscape of modular cosmology** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2025
- **SL(2, Z) cosmological attractors** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2025
- **Gauge-fixing local H symmetry in supergravities** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Samtleben, H., Van Proeyen, A.
  2024
- **Ward identities for superamplitudes** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R.
  2024
- **Deformation of d=4, N & >= 5 supergravities breaks nonlinear local supersymmetry** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Yamada, Y.
  2023
- **Hybrid ?-attractors, primordial black holes and gravitational wave backgrounds** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Braglia, M., Linde, A., Kallosh, R., Finelli, F.
  2023
- **Goldstino condensation?** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kanosh, R., Linde, A., Wrase, T., Yamada, Y.
  2022
- **Dilaton-axion inflation with PBHs and GWs** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2022
- **Hybrid cosmological attractors** *PHYSICAL REVIEW D*
  Kallosh, R., Linde, A.
  2022; 106 (2)
- **Polynomial alpha-attractors** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2022
- **BICEP/Keck and cosmological attractors** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2021
- **Quantization of gravity in spherical harmonic basis** *PHYSICAL REVIEW D*
  Kallosh, R.
  2021; 104 (8)
- **Quantization of gravity in the black hole background** *PHYSICAL REVIEW D*
  Kallosh, R., Rahman, A. A.
  2021; 104 (8)
- **IIB String Theory and Sequestered Inflation** *FORTSCHRITTE DER PHYSIK-PROGRESS OF PHYSICS*
  Kallosh, R., Linde, A., Wrase, T., Yamada, Y.
  2021

- **Sequestered Inflation** *FORTSCHRITTE DER PHYSIK-PROGRESS OF PHYSICS*
  Kallosh, R., Linde, A., Wrase, T., Yamada, Y.
  2021
- **M-theory, black holes and cosmology** *PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*
  Kallosh, R.
  2021; 477 (2245)
- **M-theory cosmology, octonions, error correcting codes** *JOURNAL OF HIGH ENERGY PHYSICS*
  Gunaydin, M., Kallosh, R., Linde, A., Yamada, Y.
  2021
- **M-theory, black holes and cosmology.** *Proceedings. Mathematical, physical, and engineering sciences*
  Kallosh, R.
  2021; 477 (2245): 20200786
- **de Sitter minima from M-theory and string theory** *PHYSICAL REVIEW D*
  Cribiori, N., Kallosh, R., Linde, A., Roupec, C.
  2020; 101 (4)
- **Mass production of type IIA dS vacua** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Linde, A.
  2020
- **Uplifting anti-D6-brane** *JOURNAL OF HIGH ENERGY PHYSICS*
  Cribiori, N., Kallosh, R., Roupec, C., Wrase, T.
  2019
- **CMB targets after the latest Planck data release** *PHYSICAL REVIEW D*
  Kallosh, R., Linde, A.
  2019; 100 (12)
- **B-mode targets** *PHYSICS LETTERS B*
  Kallosh, R., Linde, A.
  2019; 798
- **Supersymmetry constraints on U-duality invariant deformations of N >= 5 supergravity** *JOURNAL OF HIGH ENERGY PHYSICS*
  Gunaydin, M., Kallosh, R.
  2019
- **On hilltop and brane inflation after Planck** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2019
- **The action with manifest E7 type symmetry** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R.
  2019
- **Simple sinflaton-less -attractors** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Yamada, Y.
  2019
- **dS vacua and the swampland** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Linde, A., McDonough, E., Scalisi, M.
  2019
- **Gaugino condensation and geometry of the perfect square** *PHYSICAL REVIEW D*
  Kallosh, R.
  2019; 99 (6)

- **4D models of de Sitter uplift** *PHYSICAL REVIEW D*
  Kallosh, R., Linde, A., McDonough, E., Scalisi, M.
  2019; 99 (4)
- **Planck 2018 and brane inflation revisited** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Linde, A., Yamada, Y.
  2019
- **dS Supergravity from 10d** *FORTSCHRITTE DER PHYSIK-PROGRESS OF PHYSICS*
  Kallosh, R., Wrase, T.
  2019; 67 (1-2)
- **The Landscape, the Swampland and the Era of Precision Cosmology** *FORTSCHRITTE DER PHYSIK-PROGRESS OF PHYSICS*
  Akrami, Y., Kallosh, R., Linde, A., Vardanyan, V.
  2019; 67 (1-2)
- **de Sitter Vacua with a Nilpotent Superfield** *FORTSCHRITTE DER PHYSIK-PROGRESS OF PHYSICS*
  Kallosh, R., Linde, A., McDonough, E., Scalisi, M.
  2019; 67 (1-2)
- **From the Sky to the Fundamental Physics** *FOUNDATIONS OF PHYSICS*
  Kallosh, R.
  2018; 48 (10): 1279–90
- **Dark energy, alpha-attractors, and large-scale structure surveys** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Akrami, Y., Kallosh, R., Linde, A., Vardanyan, V.
  2018
- **Universality of multi-field alpha-attractors** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Achucarro, A., Kallosh, R., Linde, A., Wang, D., Welling, Y.
  2018
- **Fibre inflation and alpha-attractors** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Linde, A., Roest, D., Westphal, A., Yamada, Y.
  2018
- **Absence of U(1) anomalous superamplitudes in N >= 5 supergravities** *JOURNAL OF HIGH ENERGY PHYSICS*
  Freedman, D. Z., Kallosh, R., Murli, D., Van Proeyen, A., Yamada, Y.
  2017
- **Origin of soft limits from nonlinear supersymmetry in Volkov-Akulov theory** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Karlsson, A., Murli, D.
  2017
- **yNonlinear (super)symmetries and amplitudes** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R.
  2017
- **Cancellation of conformal and chiral anomalies in N >= 5 supergravities** *PHYSICAL REVIEW D*
  Kallosh, R.
  2017; 95 (4)
- **Seven-disk manifold, alpha-attractors, and B modes** *PHYSICAL REVIEW D*
  Ferrara, S., Kallosh, R.
  2016; 94 (12)
- **Cosmological attractors and asymptotic freedom of the inflaton field** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2016

- **Orthogonal nilpotent superfields from linear models** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Karlsson, A., Mosk, B., Murli, D.
  2016
- **MATTER-COUPLED DE SITTER SUPERGRAVITY** *THEORETICAL AND MATHEMATICAL PHYSICS*
  Kallosh, R. E.
  2016; 187 (2): 695-705
- **Linear versus non-linear supersymmetry, in general** *JOURNAL OF HIGH ENERGY PHYSICS*
  Ferrara, S., Kallosh, R., Van Proeyen, A., Wrase, T.
  2016
- **Coupling the inflationary sector to matter** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Linde, A., Wrase, T.
  2016
- **Minimal supergravity inflation** *PHYSICAL REVIEW D*
  Carrasco, J. J., Kallosh, R., Linde, A.
  2016; 93 (6)
- **Cosmology with orthogonal nilpotent superfields** *PHYSICAL REVIEW D*
  Ferrara, S., Kallosh, R., Thaler, J.
  2016; 93 (4)
- **From linear to nonlinear supersymmetry via functional integration** *PHYSICAL REVIEW D*
  Kallosh, R., Karlsson, A., Murli, D.
  2016; 93 (2)
- **Escher in the Sky** *COMPTES RENDUS PHYSIQUE*
  Kallosh, R., Linde, A.
  2015; 16 (10): 914-927
- **de Sitter supergravity model building** *PHYSICAL REVIEW D*
  Kallosh, R., Wrase, T.
  2015; 92 (10)
- **Pure de Sitter supergravity** *PHYSICAL REVIEW D*
  Bergshoeff, E. A., Freedman, D. Z., Kallosh, R., Van Proeyen, A.
  2015; 92 (8)
- **alpha-attractors: Planck, LHC and dark energy** *JOURNAL OF HIGH ENERGY PHYSICS*
  Carrasco, J. J., Kallosh, R., Linde, A.
  2015
- **Cosmological attractors and initial conditions for inflation** *PHYSICAL REVIEW D*
  Carrasco, J. J., Kallosh, R., Linde, A.
  2015; 92 (6)
- **Hyperbolic geometry of cosmological attractors** *PHYSICAL REVIEW D*
  Carrasco, J. J., Kallosh, R., Linde, A., Roest, D.
  2015; 92 (4)
- **(D3)over-bar and dS** *JOURNAL OF HIGH ENERGY PHYSICS*
  Bergshoeff, E. A., Dasgupta, K., Kallosh, R., Van Proeyen, A., Wrase, T.
  2015
- **Planck, LHC, and alpha-attractors** *PHYSICAL REVIEW D*
  Kallosh, R., Linde, A.
  2015; 91 (8)

- **Unity of Cosmological Inflation Attractors** *PHYSICAL REVIEW LETTERS*
  Galante, M., Kallosh, R., Linde, A., Roest, D.
  2015; 114 (14)
- **Inflation, de Sitter landscape and super-Higgs effect** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Linde, A., Scalisi, M.
  2015
- **Inflation and uplifting with nilpotent superfields** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2015
- **Emergence of spontaneously broken supersymmetry on an anti-D3-brane in KKLT dS vacua** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Wrase, T.
  2014
- **Cosmology with nilpotent superfields** *JOURNAL OF HIGH ENERGY PHYSICS*
  Ferrara, S., Kallosh, R., Linde, A.
  2014
- **Analytic classes of metastable de Sitter vacua** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Linde, A., Vercnocke, B., Wrase, T.
  2014
- **The double attractor behavior of induced inflation** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Linde, A., Roest, D.
  2014
- **Natural inflation in supergravity and beyond** *PHYSICAL REVIEW D*
  Kallosh, R., Linde, A., Vercnocke, B.
  2014; 90 (4)
- **Large field inflation and double alpha-attractors** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Linde, A., Roest, D.
  2014
- **Chaotic inflation in supergravity after Planck and BICEP2** *PHYSICAL REVIEW D*
  Kallosh, R., Linde, A., Westphal, A.
  2014; 90 (2)
- **Is imaginary Starobinsky model real?** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A., Vercnocke, B., Chemissany, W.
  2014
- **Cosmological attractor models and higher curvature supergravity** *JOURNAL OF HIGH ENERGY PHYSICS*
  Cecotti, S., Kallosh, R.
  2014
- **More on universal superconformal attractors** *PHYSICAL REVIEW D*
  Kallosh, R.
  2014; 89 (8)
- **Journeys through antigravity?** *JOURNAL OF HIGH ENERGY PHYSICS*
  Carrasco, J. J., Chemissany, W., Kallosh, R.
  2014
- **Universal Attractor for Inflation at Strong Coupling** *PHYSICAL REVIEW LETTERS*
  Kallosh, R., Linde, A., Roest, D.
  2014; 112 (1)

- **Hidden superconformal symmetry of the cosmological evolution** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2014
- **Multi-field conformal cosmological attractors** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2013
- **On the supersymmetric completion of R+R-2 gravity and cosmology** *JOURNAL OF HIGH ENERGY PHYSICS*
  Ferrara, S., Kallosh, R., Van Proeyen, A.
  2013
- **High order corrections in minimal supergravity models of inflation** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Ferrara, S., Kallosh, R., Linde, A., Porrati, M.
  2013
- **Minimal supergravity models of inflation** *PHYSICAL REVIEW D*
  Ferrara, S., Kallosh, R., Linde, A., Porrati, M.
  2013; 88 (8)
- **Non-minimal Inflationary Attractors** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2013
- **Dirac-Born-Infeld-Volkov-Akulov and deformation of supersymmetry** *JOURNAL OF HIGH ENERGY PHYSICS*
  Bergshoeff, E., Coomans, F., Kallosh, R., Shahbazi, C. S., Van Proeyen, A.
  2013
- **Universality class in conformal inflation** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2013
- **On the U(1) duality anomaly and the S-matrix of N=4 supergravity** *JOURNAL OF HIGH ENERGY PHYSICS*
  Carrasco, J. J., Kallosh, R., Roiban, R., Tseytlin, A. A.
  2013
- **Superconformal generalization of the chaotic inflation model lambda/4 phi(4) - xi/2 phi R-2** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2013
- **Superconformal generalizations of the Starobinsky model** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
  2013
- **Conjecture on hidden superconformal symmetry of N=4 supergravity** *PHYSICAL REVIEW D*
  Ferrara, S., Kallosh, R., Van Proeyen, A.
  2013; 87 (2)
- **N=2 supergravity counterterms, off and on shell** *JOURNAL OF HIGH ENERGY PHYSICS*
  Chemissany, W., Ferrara, S., Kallosh, R., Shahbazi, C. S.
  2012
- **New E-7(7) invariants and amplitudes** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Ortin, T.
  2012
- **N=2 supersymmetry and U(1)-duality** *PHYSICAL REVIEW D*
  Broedel, J., Carrasco, J. J., Ferrara, S., Kallosh, R., Roiban, R.
  2012; 85 (12)

- **Degeneration of groups of type E-7 and minimal coupling in supergravity** *JOURNAL OF HIGH ENERGY PHYSICS*
  Ferrara, S., Kallosh, R., Marrani, A.
  2012
- **Absence of 3-loop divergence in N=4 supergravity** *PHYSICAL REVIEW D*
  Kallosh, R.
  2012; 85 (8)
- **E-7(7) symmetry and finiteness of N=8 supergravity** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R.
  2012
- **Born-Infeld theory with higher derivatives** *PHYSICAL REVIEW D*
  Chemissany, W., Kallosh, R., Ortin, T.
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- **Covariant procedures for perturbative nonlinear deformation of duality-invariant theories** *PHYSICAL REVIEW D*
  Carrasco, J. J., Kallosh, R., Roiban, R.
  2012; 85 (2)
- **Creation of matter in the universe and groups of type E7** *JOURNAL OF HIGH ENERGY PHYSICS*
  Ferrara, S., Kallosh, R.
  2011
- **Chaotic inflation and supersymmetry breaking** *PHYSICAL REVIEW D*
  Kallosh, R., Linde, A., Olive, K. A., Rube, T.
  2011; 84 (8)
- **Generalized attractor points in gauged supergravity** *PHYSICAL REVIEW D*
  Kachru, S., Kallosh, R., Shmakova, M.
  2011; 84 (4)
- **N=8 counterterms and E-7(7) current conservation** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R.
  2011
- **From lightcone actions to maximally supersymmetric amplitudes** *JOURNAL OF HIGH ENERGY PHYSICS*
  Broedel, J., Kallosh, R.
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- **General inflaton potentials in supergravity** *PHYSICAL REVIEW D*
  Kallosh, R., Linde, A., Rube, T.
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- **Superconformal symmetry, NMSSM, and inflation** *PHYSICAL REVIEW D*
  Ferrara, S., Kallosh, R., Linde, A., Marrani, A., Van Proeyen, A.
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- **New N=4 supersymmetric Yang-Mills path integral** *PHYSICAL REVIEW D*
  Fu, C., Kallosh, R.
  2010; 82 (12)
- **The ultraviolet finiteness N=8 supergravity** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R.
  2010
- **New models of chaotic inflation in supergravity** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
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- **Jordan frame supergravity and inflation in the NMSSM** *PHYSICAL REVIEW D*
  Ferrara, S., Kallosh, R., Linde, A., Marrani, A., Van Proeyen, A.
  2010; 82 (4)
- **Perturbative and non-perturbative N=8 supergravity** *PHYSICS LETTERS B*
  Bianchi, M., Ferrara, S., Kallosh, R.
  2010; 690 (3): 328-331
- **Compactification on negatively curved manifolds** *JOURNAL OF HIGH ENERGY PHYSICS*
  Douglas, M. R., Kallosh, R.
  2010
- **Observations on arithmetic invariants and U-duality orbits in N=8 supergravity** *JOURNAL OF HIGH ENERGY PHYSICS*
  Bianchi, M., Ferrara, S., Kallosh, R.
  2010
- **N=8 supergravity on the light cone** *PHYSICAL REVIEW D*
  Kallosh, R.
  2009; 80 (10)
- **On UV finiteness of the four loop N=8 supergravity** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R.
  2009
- **UV properties of N=8 supergravity** *4th EU RTN Workshop on Constituents, Fundamental Forces and Symmetries of the Universe*
  Kallosh, R.
  WILEY-V C H VERLAG GMBH.2009: 385–95
- **N=8 Supergravity 4-point amplitudes** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Lee, C. H., Rube, T.
  2009
- **Update of D3/D7-brane inflation on K3 x T-2/Z(2)** *NUCLEAR PHYSICS B*
  Haack, M., Kallosh, R., Krause, A., Linde, A., Luest, D., Zagermann, M.
  2009; 806 (1-2): 103-177
- **The footprint of E-7(7) in amplitudes of N=8 supergravity** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Kugo, T.
  2009
- **Explicit action of E-7(7) on N=8 supergravity fields** *NUCLEAR PHYSICS B*
  Kallosh, R., Soroush, M.
  2008; 801 (1-2): 25-44
- **Volume modulus inflation and the gravitino mass problem** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Conlon, J. P., Kallosh, R., Linde, A., Quevedo, F.
  2008
- **The new ekpyrotic ghost** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Kang, J. U., Linde, A., Mukhanov, V.
  2008
- **Axion inflation and gravity waves in string theory** *PHYSICAL REVIEW D*
  Kallosh, R., Sivanandam, N., Soroush, M.
  2008; 77 (4)
- **Testing string theory by CMB** *8th Asia-Pacific International Conference on Gravitation and Astrophysics*
  Kallosh, R.
  PROGRESS THEORETICAL PHYSICS PUBLICATION OFFICE.2008: 1–10

- **Issues in type IIA uplifting** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Soroush, M.
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- **Testing string theory with cosmic microwave background** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Kallosh, R., Linde, A.
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- **O'KKLT** *JOURNAL OF HIGH ENERGY PHYSICS*
  Kallosh, R., Linde, A.
  2007
- **Magic supergravities, N=8 and black hole composites** *PHYSICAL REVIEW D*
  Ferrara, S., Gimon, E. G., Kallosh, R.
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- **Domain walls, near-BPS bubbles, and probabilities in the landscape** *PHYSICAL REVIEW D*
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- **Exact attractive non-BPS STU black holes** *PHYSICAL REVIEW D*
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