

LIST OF PUBLICATIONS

1. *Higgsflation at the GUT scale in a Higgsless Universe*, Phys. Rev. **D78**, 043527 (2008) (with L. Sorbo and J. Yokoyama).
2. *Geometric Precipices in String Cosmology*, Phys. Rev. **D77**, 066002 (2008) (with S. Watson).
3. *How (Not) to Palatini*, Phys. Rev. **D76**, 104001 (2007) (with A. Iglesias, A. Padilla and M. Park).
4. *A new perspective on DGP gravity*, JHEP **0710**, 069 (2007) (with R. Gregory, R. Myers and A. Padilla).
5. *Challenging the cosmological constant*, Phys. Lett. **B653**, 109 (2007).
6. *How black holes form in high energy collisions*, Gen. Rel. Grav. **39**, 1525 (2007) (with J. Terning).
7. *Charting the landscape of brane induced gravity*, JHEP **05** (2007) 045 (with D. Kiley).
8. *A new dimension hidden in the shadow of a wall*, Phys. Lett. **B652** (2007) 92.
9. *Evaporation of a black hole off of a tense brane*, Phys. Rev. **D75** (2007) 024043 (with D.-C. Dai, G.D. Starkman and D. Stojkovic).
10. *On the new string theory inspired mechanism of generation of cosmological perturbations*, JCAP **0610** (2006) 006 (with L. Kofman, A. Linde and V. Mukhanov).
11. *Low energy bounds on Poincare violation in causal set theory*, Phys. Rev. **D74** (2006) 106001 (with D. Mattingly).
12. *DGP spectroscopy*, JHEP **0610** (2006) 066 (with C. Charmousis, R. Gregory and A. Padilla).
13. *Exact black holes and gravitational shockwaves on codimension-2 branes*, JHEP **0603** (2006) 077 (with D. Kiley).
14. *Of pNGB quiNtessence*, JCAP **0604** (2006) 007 (with L. Sorbo).
15. *Locally localized gravity: the inside story*, JHEP **0508** (2005) 070 (with L. Sorbo).

16. *The accelerated acceleration of the universe*, JCAP **0606** (2006) 022 (with C. Csaki and J. Terning).
17. *Gravitational shock waves and their scattering in brane-induced gravity*, Phys. Rev. **D71** (2005) 086003.
18. *Brane-induced gravity's shocks*, Phys. Rev. Lett. **94** (2005) 181601.
19. *Exorcising $w < -1$* , Annals of Physics **317** (2005) 410 (with C. Csaki and J. Terning).
20. *Moduli entrapment with primordial black holes*, Phys. Lett. **B606** (2005) 234 (with J. Rahmfeld and L. Sorbo).
21. *Observational consequences of cosmological event horizons*, Phys. Lett. **B600** (2004) 7 (with M. Kleban and L. Sorbo).
22. *Origami world*, JHEP **0405** (2004) 061.
23. *Disformal inflation*, Phys. Lett. **B583** (2004) 1.
24. *Primeval corrections to the CMB anisotropies*, Phys. Rev. **D68** (2003) 123522 (with M. Kaplinghat).
25. *Super-GZK photons from photon-axion mixing*, JCAP **0305** (2003) 005 (with C. Csaki, M. Peloso and J. Terning).
26. *Black hole astrophysics in AdS braneworlds*, JHEP **0301** (2003) 079 (with R. Emparan and J. Garcia-Bellido).
27. *Holographic limitations of the effective field theory of inflation*, hep-th/0211221 (with A. Albrecht and Y-S. Song).
28. *Initial conditions for inflation*, JHEP **0211** (2002) 037 (with M. Kleban, A. Lawrence, S. Shenker and L. Susskind).
29. *Quantum black holes as holograms in AdS braneworlds*, JHEP **0208** (2002) 043 (with R. Emparan and A. Fabbri).
30. *Signatures of short distance physics in the cosmic microwave background*, Phys. Rev. **D66** (2002) 123510 (with M. Kleban, A. Lawrence and S. Shenker).
31. *Effects of the intergalactic plasma on supernova dimming via photon-axion oscillations*, Phys. Lett. **B535** (2002) 33 (with C. Csaki and J. Terning).
32. *Dimming supernovae without cosmic acceleration*, Phys. Rev. Lett. **88** (2002) 161302 (with C. Csaki and J. Terning).
33. *Generating small numbers by tunneling in multi-throat compactifications*, Int. J. Mod. Phys. **A19** (2004) 2657 (with S. Dimopoulos, S. Kachru, A. Lawrence and E. Silverstein).

34. *Small numbers from tunneling between brane throats*, Phys. Rev. **D64** (2001) 121702 (with S. Dimopoulos, S. Kachru, A. Lawrence and E. Silverstein).
35. *String theory and quintessence*, JHEP **0106** (2001) 003 (with S. Hellerman and L. Susskind).
36. *Gauge symmetry and localized gravity in M-theory*, JHEP **0105** (2001) 031 (with E. Silverstein and L. Susskind).
37. *Compact hyperbolic extra dimensions: branes, Kaluza-Klein modes and cosmology*, Phys. Rev. Lett. **85** (2000) 928 (with J. March-Russell, G.D. Starkman and M. Trodden).
38. *A small cosmological constant from a large extra dimension*, Phys. Lett. **B480** (2000) 193 (with N. Arkani-Hamed, S. Dimopoulos, and R. Sundrum).
39. *Crystal Manifold universes in AdS space*, Phys. Lett. **B474** (2000) 269.
40. *Manifold universe*, JHEP **0012** (2000) 010 (with N. Arkani-Hamed, S. Dimopoulos and G. Dvali).
41. *Dynamics and perturbations in assisted chaotic inflation*, Phys. Rev. **D61** (2000) 123513 (with A.R. Liddle).
42. *Infinitely large new dimensions*, Phys. Rev. Lett. **84** (2000) 586 (with N. Arkani-Hamed, S. Dimopoulos and G. Dvali).
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44. *Cosmology vs. holography*, Phys. Rev. **D60** (1999) 103509 (with A. Linde).
45. *Rapid asymmetric inflation and early cosmology in theories with sub-millimeter dimensions*, Nucl. Phys. **B567** (2000) 189 (with N. Arkani-Hamed, S. Dimopoulos and J. March-Russell).
46. *The $O(dd)$ story of massive supergravity*, JHEP **9905** (1999) 010 (with R.C. Myers).
47. *Inflation and large internal dimensions*, Phys. Rev. **D59** (1999) 101303 (with A. Linde).
48. *Topological R^4 inflation*, Phys. Rev. **D59** (1999) 103503 (with J. Ellis, K.A. Olive and J. Yokoyama).
49. *Entropy count for extremal three-dimensional black strings*, Phys. Lett. **B434** (1998) 285.
50. *On generalized axion reductions*, Phys. Lett. **B428** (1998) 297 (with R.R. Khuri and R.C. Myers).
51. *Pre-Big Bang requires the Universe to be exponentially large from the very beginning*, Phys. Rev. **D59** (1999) 043508 (with A.D. Linde and R. Bousso).

52. *Cos(M)ological solutions in M- and string theory*, Phys. Rev. **D57** (1998) 7340 [Erratum-ibid. **D60** (1999) 049901](with I.I. Kogan and K.A. Olive).
53. *Singularities in scalar-tensor cosmologies*, Phys. Rev. **D57** (1997) 811 (with K.A. Olive).
54. *Duality beyond the first loop*, Phys. Rev. **D56** (1997) 7940 (with K.A. Meissner).
55. *Wavy strings: black or bright?*, Phys. Rev. **D55** (1997) 7625 (with R.C. Myers and H. Roussel).
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59. *Hidden finite symmetries in string theory and duality of dualities*, Phys. Lett. **B366** (1996) 124 .
60. *Towards a singularity-free inflationary universe?*, Nucl. Phys. **B452** (1995) 677 (with R. Madden and K.A. Olive).
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62. *Field redefinitions in string theory as a solution generating technique*, Phys. Lett. **B336** (1994) 11.
63. *Topological mass generation in three-dimensional string theory*, Phys. Lett. **B320** (1994) 16.
64. *Exact primordial black strings in four dimensions*, Phys. Rev. **D48** (1993) 4658.
65. *Miens of the three-dimensional black hole*, Phys. Rev. **D48** (1993) 2598.
66. *Physical properties of four-dimensional superstring gravity black hole solutions*, Nucl. Phys. **B399** (1993) 137 (with B.A. Campbell, R. Madden and K.A. Olive).
67. *A closed Bianchi I universe in string theory*, Mod. Phys. Lett. **A8** (1992) 421.
68. *Stringy cosmic strings and axion cohomology*, Phys. Rev. **D47** (1992) 2403.
69. *Axion hair and dynamical torsion from anomalies*, Nucl. Phys. **B387** (1992) 215 (with M.J. Duncan and K.A. Olive).
70. *Classical hair for Kerr-Newman black holes*, Phys. Lett. **B285** (1992) 199 (with B.A. Campbell and K.A. Olive).

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71. *Dilatons in string cosmology*, *Astroparticle Physics* **1** (1993) 185 (with K.A. Olive).
72. *An open cosmological model in string theory*, *Phys. Lett.* **B277** (1992) 265 (with B.A. Campbell and K.A. Olive).
73. *Axion hair for dyon black holes*, *Phys. Lett.* **B263** (1991) 364 (with B.A. Campbell and K.A. Olive).
74. *Lorentz Chern-Simons terms in Bianchi cosmologies and the cosmic no-hair conjecture*, *Phys. Rev.* **D44** (1991) 2380.
75. *Axion hair for Kerr black holes*, *Phys. Lett.* **B251** (1990) 34 (with B.A. Campbell, M.J. Duncan and K.A. Olive).
76. *Gravitational dynamics with Lorentz Chern-Simons terms*, *Nucl. Phys.* **B351** (1991) 778 (with B.A. Campbell, M.J. Duncan and K.A. Olive).
77. *Theories of inflation and conformal transformations*, *Nucl. Phys.* **B341** (1990) 252 (with S. Kalara and K.A. Olive).

Conference Proceedings

1. *Brane Induced Gravity: Codimension*, arXiv:0711.3210 [hep-th] (based on talks given at the "Sowers Workshop", Virginia Tech, May 14-18, 2007, "Cosmology and Strings" workshop at ICTP, Trieste, Italy, July 9-13, 2007, "Dark Energy In the Universe", Hakone, Japan, Sep 1-4, 2007 and "Zagreb Workshop 2007", Zagreb, Croatia, Nov 9-11, 2007).
2. *Observational implications of cosmological event horizons*, *Proceedings of Science, JHEP* (Proceedings of the 28th Johns Hopkins Workshop on Current Problems in Particle Theory, Johns Hopkins University, Baltimore, MD, June 5-8, 2004).
3. *Origami world*, *AIP Conference Proceedings Vol 743(1)* (2004) 318 (Proceedings of the "Strings and Cosmology" Conference, Texas A & M University, College Station, TX, March 14-17, 2004).
4. *Shadows of Quantum Black Holes*, *Proceedings of the BW2003 WORKSHOP "Mathematical, Theoretical and Phenomenological Challenges Beyond Standard Model"*, Vrnjacka Banja, Serbia, 29 August - 02 September, 2003, eds. G. Djordjevic, Lj. Nešic and J. Wess, World Scientific, Singapore (2005).
5. *Small numbers from tunneling between brane throats*, *Brane World: New Perspectives in Cosmology workshop*, Kyoto University, 2002. Published in *Prog. Theor. Phys. Suppl.* **148** (2003) 29.
6. *Cosmological horizons, quintessence and string theory*, *Brane World: New Perspectives in Cosmology workshop*, Kyoto University, 2002. Published in *Prog. Theor. Phys. Suppl.* **148** (2003) 158.

7. *New frontiers in string cosmology - a tryptich*, 11th Workshop on GRG, Waseda University, 2002.
8. *Early inflation and cosmology in theories with sub-millimeter dimensions*, hep-ph/9903239, COSMO-98, Asilomar 1998, Particle physics and the early universe (with N. Arkani-Hamed, S. Dimopoulos and J. March-Russell).
9. *Initial conditions in brany and stringy cosmology*, COSMO-98, Asilomar 1998, Particle physics and the early universe.
10. *Initial conditions in Pre-Big Bang cosmology*, hep-th/9808063, PASCOS-98, Boston 1998.
11. *Tailoring T-duality beyond the first loop*, hep-th/9708193, 7th C^2GR^2A (with K.A. Meissner).
12. *A no-go theorem in string cosmology*, gr-qc/9508003, 6th C^2GR^2A , Fields Institute, 1995.
13. *New black strings in three dimensions*, hep-th/9505184, XVII MRST meeting, University of Rochester, 1995.
14. *Three-dimensional black holes and four-dimensional black strings as nonlinear sigma models*, hep-th/9309019, 5th C^2GR^2A , World Scientific, 1994.
15. *Lorentz Chern-Simons term and the breakdown of the cosmic no-hair conjecture*, 4th C^2GR^2A , World Scientific, 1992.