

UniverseNet Publications (2006-07)

Inter-team papers (in refereed international journals)

http://www.physics.ox.ac.uk/univnet/universenet_publications.htm

- 1. A Covariant generalization of cosmological perturbation theory.**
Kari Enqvist (Helsinki Inst. of Phys. & Helsinki U.) , Janne Hogdahl (Helsinki Inst. of Phys.) , Sami Nurmi (Helsinki U.) , Filippo Vernizzi (Helsinki Inst. of Phys. & ICTP, Trieste) . HIP-2006-48-TH, Nov 2006. 22pp.
Published in **Phys.Rev.D75:023515,2007**.
e-Print: [gr-qc/0611020](http://arxiv.org/abs/gr-qc/0611020)
- 2. A Mini-landscape of exact MSSM spectra in heterotic orbifolds.**
Oleg Lebedev (Bonn U. & CERN) , Hans Peter Nilles (Bonn U.) , Stuart Raby (Ohio State U.) , Saul Ramos-Sanchez (Bonn U.) , Michael Ratz (Munich, Tech. U.) , Patrick K.S. Vaudrevange (Bonn U.) , Akin Wingerter (Ohio State U.) . CERN-PH-TH-2006-230, OHSTPH-HEP-T-06-006, NSF-KITP-06-100, TUM-HEP-651-06, Nov 2006. 13pp.
Published in **Phys.Lett.B645:88-94,2007**.
e-Print: [hep-th/0611095](http://arxiv.org/abs/hep-th/0611095)
- 3. An upper limit to the photon fraction in cosmic rays above 10^{19} -eV from the Pierre Auger Observatory.**
By Pierre Auger Collaboration ([J. Abraham et al.](#)). FERMILAB-PUB-06-210-A, Jun 2006. 29pp.
Published in **Astropart.Phys.27:155-168,2007**.
e-Print: [astro-ph/0606619](http://arxiv.org/abs/astro-ph/0606619)
- 4. Anisotropy studies around the Galactic Centre at EeV energies with the Auger Observatory.**
By Pierre Auger Collaboration ([M. Aglietta et al.](#)). FERMILAB-PUB-06-241-A-TD, Jul 2006.
Published in **Astropart.Phys.27:244-253,2007**.
e-Print: [astro-ph/0607382](http://arxiv.org/abs/astro-ph/0607382)
- 5. Antiproton and Positron Signal Enhancement in Dark Matter Mini-Spikes Scenarios.**
[P. Brun](#) (Annecy, LAPP) , [G. Bertone](#) (INFN, Padua & Paris, Inst. Astrophys.) , [Julien Lavalle](#) (Marseille, CPPM) , [Pierre Salati](#), [Richard Taillet](#) (Annecy, LAPTH) . LAPP-EXP-2007-02, LAPTH-1181-07, Apr 2007. 13pp.
Published in **Phys.Rev.D76:083506,2007**.
e-Print: [arXiv:0704.2543](http://arxiv.org/abs/astro-ph/0704.2543) [astro-ph]
- 6. Connecting low energy leptonic CP-violation to leptogenesis.**
[S. Pascoli](#) (CERN & Durham U., IPPP) , [S.T. Petcov](#) (SISSA, Trieste & INFN, Trieste) , [Antonio Riotto](#) (CERN & INFN, Padua) . CERN-PH-TH-2006-179, IPPP-06-63, DCPT-06-126, Sep 2006. 4pp.
Published in **Phys.Rev.D75:083511,2007**.
e-Print: [hep-ph/0609125](http://arxiv.org/abs/hep-ph/0609125)
- 7. Correlation of the highest energy cosmic rays with nearby extragalactic objects.**
[The Pierre Auger Collaboration](#) . Nov 2007. 22pp.
Published in *Science*, vol.318, p.939-943 (9 November 2007).
e-Print: [arXiv:0711.2256](http://arxiv.org/abs/astro-ph/0711.2256) [astro-ph]
- 8. Cosmological evolution of regularized branes in 6D warped flux compactifications.**
[Masato Minamitsuji](#) (ASC, Munich & Munich U.) , [David Langlois](#) (APC, Paris & Paris, Inst. Astrophys.) . LMU-ASC-47-07, Jul 2007. 13pp.
Published in **Phys.Rev.D76:084031,2007**.
e-Print: [arXiv:0707.1426](http://arxiv.org/abs/hep-th/0707.1426) [hep-th]
- 9. CP and Lepton-Number Violation in GUT Neutrino Models with Abelian Flavour Symmetries.**
[John R. Ellis](#) (CERN) , [Mario E. Gomez](#) (Huelva U.) , [Smaragda Lola](#) (Patras U.) . CERN-PH-TH-2006-181, Dec 2006. 28pp.
Published in **JHEP 0707:052,2007**.
e-Print: [hep-ph/0612292](http://arxiv.org/abs/hep-ph/0612292) **

10. **Current Exchanges and Unconstrained Higher Spins.**
D. Francia (Goteborg, ITP) , J. Mourad (APC, Paris) , A. Sagnotti (Pisa, Scuola Normale Superiore & INFN, Pisa) . Jan 2007. 37pp.
Published in **Nucl.Phys.B773:203-237,2007**.
e-Print: [hep-th/0701163](#)
11. **Direct dark matter detection around the corner? Prospects in the constrained MSSM.**
R. Trotta, R. Ruiz de Austri, L. Roszkowski (Oxford U. & Madrid, Autonoma U. & Sheffield U.) . 2007. 5pp.
Prepared for 2nd Workshop on TeV Particle Astrophysics, Madison, Wisconsin, 28-31 Aug 2006.
Published in **J.Phys.Conf.Ser.60:259-263,2007**.
12. **Fermion masses and mixings in SO(10) models and the neutrino challenge to SUSY GUTs.**
Stefano Bertolini, Thomas Schwetz (SISSA, Trieste & INFN, Trieste) , Michal Malinsky (Southampton U. & CERN) . Apr 2006. 14pp.
Published in **Phys.Rev.D73:115012,2006**.
e-Print: [hep-ph/0605006](#)
13. **F-term uplifting via consistent D-terms.**
Z. Lalak (CERN & Warsaw U.) , O.J. Eyton-Williams (Warsaw U.) , R. Matyszkiewicz (Dresden, Tech. U. & Cracow, INP) . CERN-PH-TH-2006-211, Feb 2007. 10pp.
Published in **JHEP 0705:085,2007**.
e-Print: [hep-th/0702026](#) **
14. **Gauge invariant MSSM inflaton.**
Rouzbeh Allahverdi (Perimeter Inst. Theor. Phys. & McMaster U.) , Kari Enqvist (Helsinki U. & Helsinki Inst. of Phys.) , Juan Garcia-Bellido (Madrid, Autonoma U.) , Anupam Mazumdar (Nordita) . NORDITA-2006-13, IFT-UAM-CSIC-06-18, HIP-2006-22-TH, May 2006. 4pp.
Published in **Phys.Rev.Lett.97:191304,2006**.
e-Print: [hep-ph/0605035](#)
15. **Leptogenesis and Low Energy CP Violation in Neutrino Physics.**
S. Pascoli (Durham U., IPPP) , S.T. Petcov (SISSA, Trieste & INFN, Trieste & Sofiya, Inst. Nucl. Res.) , Antonio Riotto (CERN & INFN, Padua) . DCPT-06-166, CERN-PH-TH-2006-213, IPPP-06-83, SISSA-71-2006-EP, Nov 2006. 56pp.
Published in **Nucl.Phys.B774:1-52,2007**.
e-Print: [hep-ph/0611338](#)
16. **Low Energy Supersymmetry from the Heterotic Landscape.**
Oleg Lebedev (CERN) , Hans-Peter Nilles (Bonn U.) , Stuart Raby (Ohio State U.) , Saul Ramos-Sanchez (Bonn U.) , Michael Ratz (Munich, Tech. U.) , Patrick K.S. Vaudrevange (Bonn U.) , Akin Wingerter (Ohio State U.) . CERN-PH-TH-2006-238, NSF-KITP-06-112-R-OHSTPY-HEP-T-06-007, TUM-HEP-652-06, Nov 2006. 4pp.
Published in **Phys.Rev.Lett.98:181602,2007**.
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17. **Metastable Vacua in Flux Compactifications and Their Phenomenology.**
Oleg Lebedev (CERN) , Valeri Lowen (Bonn U.) , Yann Mambrini (Orsay, LPT) , Hans Peter Nilles (Bonn U.) , Michael Ratz (Munich, Tech. U.) . CERN-PH-TH-2006-247, LPT-ORSAY-06-78, TUM-HEP-653-06, Dec 2006. 21pp.
Published in **JHEP 0702:063,2007**.
e-Print: [hep-ph/0612035](#) **
18. **NNLO Logarithmic Expansions and Precise Determinations of the Neutral Currents near the Z Resonance at the LHC: The Drell-Yan case.**
Alessandro Cafarella (Democritos Nucl. Res. Ctr. & Crete U.) , Claudio Coriano (Lecce U. & INFN, Lecce & Crete U.) , Marco Guzzi (Lecce U. & INFN, Lecce) . Feb 2007. 72pp.
Published in **JHEP 0708:030,2007**.
e-Print: [hep-ph/0702244](#) **
19. **Nonlinear perturbations of cosmological scalar fields.**
David Langlois (APC, Paris & Paris, Inst. Astrophys.) , Filippo Vernizzi (Helsinki Inst. of Phys. & ICTP, Trieste) . Oct 2006. 44pp.
Published in **JCAP 0702:017,2007**.
e-Print: [astro-ph/0610064](#)

20. **Non-Perturbative Formulation of Time-Dependent String Solutions.**
Jean Alexandre (King's Coll. London) , John R. Ellis (King's Coll. London & CERN) , Nikolaos E. Mavromatos (King's Coll. London) . CERN-PH-TH-2006-201, Oct 2006. 15pp.
Published in **JHEP 0612:071,2006**.
e-Print: [hep-th/0610072](#) **
21. **Racetrack inflation and assisted moduli stabilisation.**
Zygmunt Lalak (CERN & Warsaw U.) , Graham G. Ross (CERN & Oxford U., Theor. Phys.) , Subir Sarkar (Oxford U., Theor. Phys.) . CERN-PH-TH-2004-259, OUTP-0502P, Mar 2005. 16pp.
Published in **Nucl.Phys.B766:1-20,2007**.
e-Print: [hep-th/0503178](#)
22. **Regularization of conical singularities in warped six-dimensional compactifications.**
Eleftherios Papantonopoulos (Natl. Tech. U., Athens) , Antonios Papazoglou (APC, Paris & Paris U. VI, GRECO & IPT, Lausanne) , Vassilios Zamarias (Natl. Tech. U., Athens) . Nov 2006. 22pp.
Published in **JHEP 0703:002,2007**.
e-Print Archive: [hep-th/0611311](#) **
23. **Seesaw neutrinos from the heterotic string.**
Wilfried Buchmuller (DESY) , Koichi Hamaguchi (Tokyo U.) , Oleg Lebedev (CERN) , Saul Ramos-Sanchez (Bonn U.) , Michael Ratz (Munich, Tech. U.) . CERN-PH-TH-2007-050, DESY-07-030, TUM-HEP-660-07, Mar 2007. 4pp.
Published in **Phys.Rev.Lett.99:021601,2007**.
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24. **Self-induced conversion in dense neutrino gases: Pendulum in flavour space.**
Steen Hannestad (Aarhus U. & Munich, Max Planck Inst.) , Georg G. Raffelt (Munich, Max Planck Inst.) , Gunter Sigl (APC, Paris & Paris, Inst. Astrophys.) , Yvonne Y.Y. Wong (Munich, Max Planck Inst.) . MPP-2006-102, Aug 2006. 20pp.
Published in **Phys.Rev.D74:105010,2006**, Erratum-ibid.D76:029901,2007.
e-Print: [astro-ph/0608695](#)
25. **Smoothly evolving supercritical-string dark energy relaxes supersymmetric-dark-matter constraints.**
A.B. Lahanas (Athens U.) , N.E. Mavromatos (King's Coll. London) , Dimitri V. Nanopoulos (Texas A-M & HARC, Woodlands & Athens Academy) . ACT-09-06, MIFP-06-34, Dec 2006. 13pp.
Published in **Phys.Lett.B649:83-90,2007**.
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26. **String compactification, QCD axion and axion-photon-photon coupling.**
Kang-Sin Choi (Bonn U.) , Ian-Woo Kim, Jihn E. Kim (Seoul Natl. U.) . SNUTP-06-012, Dec 2006. 35pp.
Published in **JHEP 0703:116,2007**.
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27. **The galactic antiproton spectrum at high energies: Background expectation vs. exotic contributions.**
Torsten Bringmann (SISSA, Trieste) , Pierre Salati (Savoie U. & Annecy, LAPTH) . Dec 2006. 17pp.
Published in **Phys.Rev.D75:083006,2007**.
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28. **The Gaugino code.**
Kiwoon Choi (KAIST, Taejon) , Hans Peter Nilles (Bonn U.) . Feb 2007. 40pp.
Published in **JHEP 0704:006,2007**.
e-Print: [hep-ph/0702146](#) **
29. **The Heterotic Road to the MSSM with R parity.**
Oleg Lebedev, Hans Peter Nilles, Stuart Raby, Saul Ramos-Sanchez, Michael Ratz, Patrick K.S. Vaudrevange, Akin Wingerter (CERN & Bonn U. & Ohio State U. & Munich, Tech. U.) . CERN-PH-TH-2007-126, OHSTPY-HEP-T-07-003, TUM-HEP-673-07, Aug 2007. 61pp.
e-Print: [arXiv:0708.2691](#) [hep-th] **
30. **The Price of WMAP Inflation in Supergravity.**
John R. Ellis (CERN) , Z. Lalak, S. Pokorski, K. Turzynski (Warsaw U.) . CERN-PH-TH-2006-099, Jun 2006. 15pp.
Published in **JCAP 0610:005,2006**.
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31. **The Smallest neutrino mass.**
 Sacha Davidson (Lyon, IPN) , Gino Isidori (Frascati) , Alessandro Strumia (Pisa U. & INFN, Pisa) . IFUP-TH-06-23, Nov 2006. 6pp.
 Published in **Phys.Lett.B646:100-104,2007**.
 e-Print Archive: [hep-ph/0611389](http://arxiv.org/abs/hep-ph/0611389)
32. **Towards Minkowski Vacua in Type II String Compactifications.**
 Andrei Micu (Bonn U.) , Eran Palti, Gianmassimo Tasinato (Oxford U.) . Jan 2007. 33pp.
 Published in **JHEP 0703:104,2007**.
 e-Print Archive: [hep-th/0701173](http://arxiv.org/abs/hep-th/0701173) **

Inter-Team papers (preprints)

33. **A Combined analysis of Lyman-alpha forest, 3D Weak Lensing and WMAP year three data.**
 J. Lesgourgues (Annecy, LAPTH) , M. Viel (Trieste Observ. & INFN, Trieste) , M.G. Haehnelt (Cambridge U., Inst. of Astron.) , R. Massey (Caltech) . LAPTH-1182-07, May 2007. 7pp.
 e-Print: [arXiv:0705.0533](http://arxiv.org/abs/astro-ph/0705.0533) [astro-ph] **
34. **A New test of the light dark matter hypothesis.**
 Celine Boehm (Annecy, LAPTH) , Joseph Silk (Oxford U.) . Aug 2007. 3pp.
 e-Print: [arXiv:0708.2768](http://arxiv.org/abs/hep-ph/0708.2768) [hep-ph]
35. **A Novel string derived Z-prime with stable proton, light-neutrinos and R-parity violation.**
 Claudio Coriano (Lecce U. & INFN, Lecce) , Alon E. Faraggi (Liverpool U., Dept. Math.) , Marco Guzzi (Lecce U. & INFN, Lecce) . LTH-742, Apr 2007. 16pp.
 e-Print: [arXiv:0704.1256](http://arxiv.org/abs/hep-ph/0704.1256) [hep-ph] **
36. **Are small neutrino masses unveiling the missing mass problem of the universe?**
 Celine Boehm (Annecy, LAPTH) , Yasaman Farzan (IPM, Tehran) , Thomas Hambye (Madrid, Autonoma U.) , Sergio Palomares-Ruiz, Silvia Pascoli (Durham U., IPPP) . Dec 2006. 4pp.
 e-Print Archive: [hep-ph/0612228](http://arxiv.org/abs/hep-ph/0612228)
37. **Constraints on top-down models for the origin of UHECRs from the Pierre Auger Observatory data.**
 D.V. Semikoz (APC, Paris) , Pierre Auger Collaboration . FERMILAB-CONF-07-375-A-TD, Jun 2007.
 Contributed to 30th International Cosmic Ray Conference (ICRC 2007), Merida, Yucatan, Mexico, 3-11 Jul 2007.
 e-Print: [arXiv:0706.2960](http://arxiv.org/abs/hep-ph/0706.2960)
38. **Cosmic Microwave Background Anisotropies up to Second Order.**
 Nicola Bartolo, Sabino Matarrese (Padua U. & INFN, Padua) , Antonio Riotto (CERN) . Mar 2007. 53pp.
 Lectures given at Les Houches Summer School - Session 86: Particle Physics and Cosmology: The Fabric of Spacetime, Les Houches, France, 31 Jul - 25 Aug 2006.
 e-Print: [astro-ph/0703496](http://arxiv.org/abs/astro-ph/0703496)
39. **Cosmological implications of the Higgs mass measurement.**
 J.R. Espinosa (Madrid, IFT & Madrid, Autonoma U.) , G.F. Giudice (CERN) , A. Riotto (CERN & INFN, Padua) . CERN-PH-TH-2007-179, IFT-UAM-CSIC-07-50, Oct 2007. 28pp.
 e-Print: [arXiv:0710.2484](http://arxiv.org/abs/hep-ph/0710.2484) [hep-ph] **
40. **Curvature and isocurvature perturbations in two-field inflation.**
 Z. Lalak (Warsaw U.) , D. Langlois (Paris U. VII, APC & Paris U. VI, GRECO) , S. Pokorski (Warsaw U.) , K. Turzyski (Warsaw U. & Michigan U.) . Apr 2007. 29pp.
 e-Print: [arXiv:0704.0212](http://arxiv.org/abs/hep-th/0704.0212) [hep-th] **
41. **Dilaton and off-shell (non-critical string) effects in Boltzmann equation for species abundances.**
 A.B. Lahanas (Athens U.) , N.E. Mavromatos (King's Coll. London) , Dimitri V. Nanopoulos (Texas A-M & HARC, Woodlands & Athens Academy) . ACT-06-06, MIFP-06-20, Aug 2006. 12pp.
 e-Print: [hep-ph/0608153](http://arxiv.org/abs/hep-ph/0608153)

42. **Flat Tree-level Inflationary Potentials in Light of CMB and LSS Data.**
G. Ballesteros, J.A. Casas, J.R. Espinosa, R. Ruiz de Austri (Madrid, Autonoma U.), R. Trotta (Oxford U.).
IFT-UAM-CSIC-07-60, CERN-PH-TH-2007-225, Nov 2007.
e-Print: [arXiv:0711.3436](https://arxiv.org/abs/0711.3436) [hep-ph] **
43. **Greybody factors for brane scalar fields in a rotating black-hole background.**
S. Creek (Durham U., Dept. of Math.), O. Eftimiou (Ioannina U.), P. Kanti (Durham U., Dept. of Math. & Ioannina U.), K. Tamvakis (Ioannina U.). Jan 2007. 31pp.
e-Print Archive: [hep-th/0701288](https://arxiv.org/abs/hep-th/0701288) **
44. **Greybody factors in a rotating black-hole background. II. Fermions and gauge bosons.**
S. Creek (Durham U., Dept. of Math.), O. Eftimiou (Ioannina U.), P. Kanti (Durham U., Dept. of Math. & Ioannina U.), K. Tamvakis (Ioannina U.). Jul 2007. 22pp.
e-Print: [arXiv:0707.1768](https://arxiv.org/abs/0707.1768) [hep-th] **
45. **Heterotic String Compactifications on Half-flat Manifolds. II.**
Sebastien Gurrieri (Kwansei Gakuin U.), Andre Lukas (Oxford U., Theor. Phys.), Andrei Micu (Bonn U.).
Sep 2007. 31pp.
e-Print: [arXiv:0709.1932](https://arxiv.org/abs/0709.1932) [hep-th] **
46. **How light can the lightest neutralino be?**
H.K. Dreiner (Bonn U.), S. Heinemeyer (Cantabria U., Santander), O. Kittel, U. Langenfeld (Bonn U.), A.M. Weber (Munich, Max Planck Inst.), G. Weiglein (Durham U., IPPP). IPPP-07-27, DCPT-07-54, BONN-TH-2007-03, Jul 2007. 4pp.
To appear in the proceedings of 2007 International Linear Collider Workshop (LCWS07 and ILC07), Hamburg, Germany, 30 May - 3 Jun 2007.
e-Print: [arXiv:0707.1425](https://arxiv.org/abs/0707.1425) [hep-ph]
47. **Induced cosmology on a regularized brane in six-dimensional flux compactification.**
Eleftherios Papantonopoulos (Natl. Tech. U., Athens), Antonios Papazoglou (APC, Paris & Paris U. VI, GRECO), Vassilios Zamarias (Natl. Tech. U., Athens). Jul 2007. 19pp.
e-Print: [arXiv:0707.1396](https://arxiv.org/abs/0707.1396) [hep-th] **
48. **MSSM flat direction inflation: Slow roll, stability, fine tuning and reheating.**
Rouzbeh Allahverdi (Perimeter Inst. Theor. Phys.), Kari Enqvist (Helsinki U. & Helsinki Inst. of Phys.), Juan Garcia-Bellido (Madrid, Autonoma U.), Asko Jokinen (Nordita & Montpellier U., Astropart. Group), Anupam Mazumdar (Nordita). IFT-UAM-CSIC-06-47, Oct 2006. 33pp.
e-Print Archive: [hep-ph/0610134](https://arxiv.org/abs/hep-ph/0610134) **
49. **Non-Perturbative Flat Direction Decay.**
Anders Basboll (Aarhus U.), David Maybury, Francesco Riva, Stephen M. West (Oxford U., Theor. Phys.).
OUTP-0702P, Mar 2007. 4pp.
e-Print: [hep-ph/0703015](https://arxiv.org/abs/hep-ph/0703015) **
50. **Observable Electron EDM and Leptogenesis.**
F.R. Joaquim (INFN, Padua & Padua U.), I. Masina (CERN), A. Riotto (CERN & INFN, Padua & Geneva U., Dept. Theor. Phys.). CERN-PH-TH-2007-023, DFPD-07-TH-01, Jan 2007. 26pp.
e-Print: [hep-ph/0701270](https://arxiv.org/abs/hep-ph/0701270)
51. **On prospects for dark matter indirect detection in the Constrained MSSM.**
Leszek Roszkowski (Sheffield U. & CERN), Roberto Ruiz de Austri (Madrid, Autonoma U.), Joe Silk (Oxford U.), Roberto Trotta (Oxford U.). Jul 2007.
e-Print: [arXiv:0707.0622](https://arxiv.org/abs/0707.0622) [astro-ph]
52. **On the Onset of Inflation in Loop Quantum Cosmology.**
Cristiano Germani (SISSA, Trieste & INFN, Trieste), William Nelson, Mairi Sakellariadou (King's Coll. London). SISSA-85-2006-EP, Jan 2007. 18pp.
e-Print: [gr-qc/0701172](https://arxiv.org/abs/gr-qc/0701172) **
53. **Probing Quantum Gravity using Photons from a Mkn 501 Flare Observed by MAGIC.**
By MAGIC Collaboration and Other Contributors (J. Albert *et al.*). CERN-PH-TH-2007-137, MPP-2007-112, Aug 2007. 5pp.

Submitted to Phys.Rev.Lett.
e-Print: [arXiv:0708.2889](https://arxiv.org/abs/0708.2889) [astro-ph] **

54. **Scalar Emission in the Bulk in a Rotating Black Hole Background.**
S. Creek (Durham U., Dept. of Math.) , O. Efthimiou (Ioannina U.) , P. Kanti (Durham U., Dept. of Math. & Ioannina U.) , K. Tamvakis (Ioannina U.) . Sep 2007. 14pp.
e-Print: [arXiv:0709.0241](https://arxiv.org/abs/0709.0241) [hep-th] **

55. **Solving the cosmic lithium problems with primordial late-decaying particles.**
Daniel Cumberbatch (Oxford U.) , Kazuhide Ichikawa, Masahiro Kawasaki (Tokyo U., ICRR) , Kazunori Kohri (Lancaster U. & Harvard-Smithsonian Ctr. Astrophys.) , Joseph Silk (Oxford U.) , Glenn D. Starkman (Oxford U. & Case Western Reserve U.) . Aug 2007. 6pp.
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56. **Spinflation.**
Damien A. Easson (Durham U., Dept. of Math.) , Ruth Gregory (Durham U., Dept. of Math. & Durham U., IPPP) , David F. Mota (Heidelberg U.) , Gianmassimo Tasinato (Oxford U., Theor. Phys.) , Ivonne Zavala (Durham U., IPPP) . DCPT-07-53, Sep 2007. 28pp.
e-Print: [arXiv:0709.2666](https://arxiv.org/abs/0709.2666) [hep-th] **

57. **Stuckelberg axions and the effective action of anomalous Abelian models. 1. A Unitarity analysis of the Higgs-axion mixing.**
Claudio Coriano (Lecce U. & INFN, Lecce & Liverpool U., Dept. Math.) , Nikos Irges (Crete U.) , Simone Morelli (Lecce U. & INFN, Lecce & Liverpool U., Dept. Math.) . Jan 2007. 73pp.
dedicated to the memory of Hidenaga Yamagishi.
e-Print: [hep-ph/0701010](https://arxiv.org/abs/hep-ph/0701010) **

58. **Supersymmetric Models with Higher Dimensional Operators.**
I. Antoniadis (CERN & Ecole Polytechnique, CPHT) , E. Dudas (Ecole Polytechnique, CPHT & Orsay, LPT) , D.M. Ghilencea (Oxford U.) . CPHT-RR084-0807, LPT-ORSAY-07-59, CERN-PH-TH-2007-133, OUTP-0707P, Aug 2007. 34pp.
e-Print: [arXiv:0708.0383](https://arxiv.org/abs/0708.0383) [hep-th] **

59. **The Matrix Reloaded: On the Dark Energy Seesaw.**
Kari Enqvist (Helsinki Inst. of Phys.) , Steen Hannestad, Martin S. Sloth (Aarhus U.) . HIP-2007-09-TH, Feb 2007. 8pp.
e-Print: [hep-ph/0702236](https://arxiv.org/abs/hep-ph/0702236)

60. **Unifying inflation and dark matter with neutrino masses.**
Rouzbeh Allahverdi (Perimeter Inst. Theor. Phys. & New Mexico U.) , Bhaskar Dutta (Texas A-M) , Anupam Mazumdar (Nordita & Lancaster U.) . MIFP-07-20, Aug 2007. 4pp.
e-Print: [arXiv:0708.3983](https://arxiv.org/abs/0708.3983) [hep-ph] **

61. **Unparticles-Higgs Interplay.**
Antonio Delgado (CERN) , Jose R. Espinosa (Madrid, IFT) , Mariano Quiros (Barcelona, IFAE & ICREA, Barcelona) . CERN-PH-TH-2007-129, IFT-UAM-CSIC-07-42, UAB-FT-633, Jul 2007. 14pp.
e-Print: [arXiv:0707.4309](https://arxiv.org/abs/0707.4309) [hep-ph] *

Other papers by network members (in refereed international journals)

62. **A Confining Strong First-Order Electroweak Phase Transition.**
Germano Nardini (Barcelona, IFAE) , Mariano Quiros (Barcelona, IFAE & Madrid, Autonoma U.) , Andrea Wulzer (Barcelona, IFAE) . UAB-FT-632, Jun 2007. 34pp.
Published in **JHEP 0709:077,2007**.
e-Print: [arXiv:0706.3388](#) [hep-ph] **
63. **A Dark Matter Candidate from an Extra (Non-Universal) Dimension.**
Marco Regis, Marco Serone, Piero Ullio (SISSA, Trieste & INFN, Trieste) . SISSA-83-2006-EP, Dec 2006. 26pp.
Published in **JHEP 0703:084,2007**.
e-Print: [hep-ph/0612286](#) **
64. **Conservative Estimates of the Mass of the Neutrino from Cosmology.**
Caroline Zunckel, P.G Ferreira (Oxford U.) . Oct 2006. 4pp.
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