

## 2007 CCTP PUBLICATIONS

1. [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. 73 pp.  
Published in **JHEP 0707 (2007) 008**  
e-Print: **hep-ph/0701010**
2. [Non-local SFT Tachyon and Cosmology.](#)  
[Alexey S. Koshelev](#) ([Crete U.](#)). Jan 2007. 17 pp.  
Published in **JHEP 0704 (2007) 029**  
e-Print: **hep-th/0701103**
3. [Gravitating defects of codimension-two.](#)  
[Georgios Kofinas](#), [Theodore Tomaras](#) ([Crete U.](#)). Feb 2007. 4 pp.  
Published in **Class.Quant.Grav. 24 (2007) 5861-5867**  
e-Print: **hep-th/0702010**
4. [Non-perturbative and Flux superpotentials for Type I strings on the Z\(3\) orbifold.](#)  
[Massimo Bianchi](#) ([INFN, Rome](#) & [Rome U., Tor Vergata](#)), [Elias Kiritsis](#) ([Ecole Polytechnique, CPHT](#) & [Crete U.](#)). CPHT-RR005-0107, ROM2F-07-04. Feb 2007. 30 pp.  
Published in **Nucl.Phys. B782 (2007) 26-50**  
e-Print: **hep-th/0702015**
5. [Chiral symmetry breaking as open string tachyon condensation.](#)  
[Roberto Casero](#) ([Ecole Polytechnique, CPHT](#)), [Elias Kiritsis](#) ([Ecole Polytechnique, CPHT](#) & [Crete U.](#)), [Angel Paredes](#) ([Ecole Polytechnique, CPHT](#)). CPHT-RR009-0207. Feb 2007. 40 pp.  
Published in **Nucl.Phys. B787 (2007) 98-134**  
e-Print: **hep-th/0702155 [HEP-TH]**
6. [On vortices and rings in extended Abelian models.](#)  
[C.G. Doudoulakis](#) ([Crete U.](#)). Feb 2007. 24 pp.  
Published in **Physica D234 (2007) 1-10**  
e-Print: **hep-ph/0702243 [HEP-PH]**
7. [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. 72 pp.  
Published in **JHEP 0708 (2007) 030**  
e-Print: **hep-ph/0702244 [HEP-PH]**

8. [Stuckelberg Axions and the Effective Action of Anomalous Abelian Models 2. A  \$SU\(3\)\_C \times SU\(2\)\_W \times U\(1\)\_Y \times U\(1\)\_B\$  model and its signature at the LHC.](#)  
[Nikos Irges](#) (Crete U.), [Claudio Coriano](#), [Simone Morelli](#) (Salento U. & INFN, Lecce). Mar 2007. 68 pp.  
Published in **Nucl.Phys. B789 (2008) 133-174**  
e-Print: [hep-ph/0703127 \[HEP-PH\]](#)
9. [Gravitational duality transformations on \(A\)dS\(4\).](#)  
[Robert G. Leigh](#) (Illinois U., Urbana), [Anastasios C. Petkou](#) (Crete U.). ILL-TH-07-02. Apr 2007. 14 pp.  
Published in **JHEP 0711 (2007) 079**  
e-Print: [arXiv:0704.0531 \[hep-th\]](#)
10. [Interacting higher spins and the high energy limit of the bosonic string.](#)  
[Angelos Fotopoulos](#) (Turin U. & INFN, Turin), [Mirian Tsulaia](#) (Crete U.). DFTT-8-2007. May 2007. 17 pp.  
Published in **Phys.Rev. D76 (2007) 025014**  
e-Print: [arXiv:0705.2939 \[hep-th\]](#)
11. [Towards a covariant model for cosmic self-acceleration.](#)  
[Alexey S. Koshelev](#), [Theodore N. Tomaras](#) (Crete U.). Jun 2007. 10 pp.  
Published in **JHEP 0710 (2007) 012**  
e-Print: [arXiv:0706.3393 \[hep-th\]](#)
12. [The Higgs mechanism as a cut-off effect.](#)  
[Nikos Irges](#) (Crete U.), [Francesco Knechtli](#), [Magdalena Luz](#) (Wuppertal U.). WUB-07-06. Jun 2007. 21 pp.  
Published in **JHEP 0708 (2007) 028**  
e-Print: [arXiv:0706.3806 \[hep-ph\]](#)
13. [On the Low Energy Spectra of the Nonsupersymmetric Heterotic String Theories.](#)  
[Alon E. Faraggi](#) (Liverpool U., Dept. Math.), [Mirian Tsulaia](#) (Crete U.). LTH-746. Jun 2007. 10 pp.  
Published in **Eur.Phys.J. C54 (2008) 495-500**  
e-Print: [arXiv:0706.1649 \[hep-th\]](#)
14. [Stochastic Inflationary Scalar Electrodynamics.](#)  
[T. Prokopec](#) (Utrecht U.), [N.C. Tsamis](#) (Crete U.), [R.P. Woodard](#) (Florida U.). SPIN-07-21, ITP-UU-07-31, CRETE-06-13, UFIFT-QG-06-05. Jul 2007. 52 pp.  
Published in **Annals Phys. 323 (2008) 1324-1360**  
e-Print: [arXiv:0707.0847 \[gr-qc\]](#)
15. [Exploring improved holographic theories for QCD: Part I.](#)  
[U. Gursoy](#) (Ecole Polytechnique, CPHT & Ecole Normale Supérieure), [E. Kiritsis](#) (Ecole Polytechnique, CPHT & Crete U.). CPHT-RR027-0507. Jul 2007. 57 pp.  
Published in **JHEP 0802 (2008) 032**  
e-Print: [arXiv:0707.1324 \[hep-th\]](#)

16. [Exploring improved holographic theories for QCD: Part II.](#)  
[U. Gursoy](#) ([Ecole Polytechnique, CPHT](#) & [Ecole Normale Superieure](#)), [E. Kiritsis](#) ([Ecole Polytechnique, CPHT](#) & [Crete U.](#)), [F. Nitti](#) ([Ecole Polytechnique, CPHT](#)). CPHT-RR028-0507. Jul 2007. 69 pp.  
Published in **JHEP 0802 (2008) 019**  
e-Print: [arXiv:0707.1349](#) [hep-th]
  
17. [Universal regularization prescription for Lovelock AdS gravity.](#)  
[Georgios Kofinas](#) ([Crete U.](#)), [Rodrigo Olea](#) ([INFN, Milan](#)). IFUM-901-FT. Aug 2007. 14 pp.  
Published in **JHEP 0711 (2007) 069**  
e-Print: [arXiv:0708.0782](#) [hep-th]
  
18. [Higher-Spin Gauge Fields Interacting with Scalars: The Lagrangian Cubic Vertex.](#)  
[Angelos Fotopoulos](#) ([Turin U.](#) & [INFN, Turin](#)), [Nikos Irges](#), [Anastasios C. Petkou](#), [Mirian Tsulaia](#) ([Crete U.](#)). Aug 2007. 26 pp.  
Published in **JHEP 0710 (2007) 021**  
e-Print: [arXiv:0708.1399](#) [hep-th]
  
19. [On n-point Amplitudes in N=4 SYM.](#)  
[A. Mironov](#) ([Lebedev Inst.](#) & [Moscow, ITEP](#)), [A. Morozov](#) ([Moscow, ITEP](#)), [T.N. Tomaras](#) ([Crete U.](#)). FIAN-TD-15-07, ITEP-TH-30-07. Aug 2007. 36 pp.  
Published in **JHEP 0711 (2007) 021**  
e-Print: [arXiv:0708.1625](#) [hep-th]
  
20. [Comment on 'Can infrared gravitons screen Lambda?'.](#)  
[N.C. Tsamis](#) ([Crete U.](#)), [R.P. Woodard](#) ([Florida U.](#)). CRETE-07-11, UFIFT-QG-07-02. Aug 2007. 7 pp.  
Published in **Phys.Rev. D78 (2008) 028501**  
e-Print: [arXiv:0708.2004](#) [hep-th]
  
21. [The Search for extra neutral currents at the LHC: QCD and anomalous gauge interactions.](#)  
[Roberta Armillis](#) ([Lecce U.](#) & [INFN, Lecce](#)), [Claudio Coriano](#) ([Lecce U.](#) & [INFN, Lecce](#) & [Crete U.](#)), [Marco Guzzi](#) ([Lecce U.](#) & [INFN, Lecce](#)). Sep 2007. 6 pp.  
Published in **AIP Conf.Proc. 964 (2007) 212-217**  
Talk given at [SPIRES Conference C07/06/16](#) (Conference information coming soon)  
e-Print: [arXiv:0709.2111](#) [hep-ph]

22. [NNLO logarithmic expansions and high precision determinations of the QCD background at the LHC: The Case of the Z resonance.](#)  
[Alessandro Cafarella](#) ([Democritos Nucl. Res. Ctr.](#)), [Claudio Coriano](#) ([Lecce U.](#) & [INFN, Lecce](#) & [Crete U.](#)), [Marco Guzzi](#) ([Lecce U.](#) & [INFN, Lecce](#)). Sep 2007. 5 pp.  
Published in **AIP Conf.Proc.** **964** (2007) **206-211**  
Talk given at [SPIRES Conference C07/06/16](#) (Conference information coming soon)  
e-Print: **arXiv:0709.2115** [hep-ph]
23. [Higgs mechanism in five-dimensional gauge theories.](#)  
[Magdalena Luz](#), [Francesco Knechtli](#) ([Wuppertal U.](#)), [Nikos Irges](#) ([Crete U.](#)).  
Sep 2007. 7 pp.  
Published in **PoS LAT2007** (2007) **057**  
Talk given at [SPIRES Conference C07/07/30.3](#) (Conference information coming soon)  
e-Print: **arXiv:0709.4549** [hep-lat]
24. [Conformal invariance and finiteness theorems for non-planar beta-deformed N=4 SYM theory.](#)  
[Federico Elmetti](#) ([Milan U.](#) & [INFN, Milan](#)), [Andrea Mauri](#) ([Milan U.](#) & [INFN, Milan](#) & [Crete U.](#)), [Marco Pirrone](#) ([Milan Bicocca U.](#) & [INFN, Milan Bicocca](#)). Oct 2007. 17 pp.  
e-Print: **arXiv:0710.4864** [hep-th]
25. [If LHC is a mini-time-machines factory, can we notice?.](#)  
[A. Mironov](#) ([Lebedev Inst.](#) & [Moscow, ITEP](#)), [A. Morozov](#) ([Moscow, ITEP](#)), [T.N. Tomaras](#) ([Crete U.](#)). FIAN-TD-12-05, ITEP-TH-51-05. Oct 2007. 22 pp.  
Published in **Facta Univ.Ser.Phys.Chem.Tech.** **4** (2006) **381-404**  
To appear in the proceedings of [SPIRES Conference C05/05/19.6](#)  
e-Print: **arXiv:0710.3395** [hep-th]
26. [Holographic Aspects of Electric-Magnetic Dualities.](#)  
[Sebastian de Haro](#) ([King's Coll. London](#)), [Anastasios C. Petkou](#) ([Crete U.](#)).  
KCL-MTH-07-14. Oct 2007. 8 pp.  
Published in **J.Phys.Conf.Ser.** **110** (2008) **102003**  
To appear in the proceedings of [SPIRES Conference C07/07/19](#)  
e-Print: **arXiv:0710.0965** [hep-th]
27. [Some properties of the Alday-Maldacena minimum.](#)  
[A. Mironov](#) ([Lebedev Inst.](#) & [Moscow, ITEP](#)), [A. Morozov](#) ([Moscow, ITEP](#)), [T. Tomaras](#) ([Crete U.](#) & [FORTH, Heraklion](#)). FIAN-TD-19-07, ITEP-TH-39-07. Nov 2007. 10 pp.  
Published in **Phys.Lett.** **B659** (2008) **723-731**  
e-Print: **arXiv:0711.0192** [hep-th]

28. [New Higgs mechanism from the lattice.](#)  
[F. Knechtli](#) (Wuppertal U.), [N. Irges](#) (Crete U.), [M. Luz](#) (Wuppertal U.).  
WUB-07-10. Nov 2007. 7 pp.  
Published in **J.Phys.Conf.Ser. 110 (2008) 102006**  
Presented at [SPIRES Conference C07/07/19](#)  
e-Print: [arXiv:0711.2931](#) [hep-ph]
  
29. [Trilinear Anomalous Gauge Interactions from Intersecting Branes and the Neutral Currents Sector.](#)  
[Roberta Armillis](#) (Salento U. & INFN, Lecce), [Claudio Coriano](#) (Salento U. & INFN, Lecce & Crete U.), [Marco Guzzi](#) (Salento U. & INFN, Lecce). Nov 2007. 68 pp.  
Published in **JHEP 0805 (2008) 015**  
e-Print: [arXiv:0711.3424](#) [hep-ph]