

## 2011 CCTP PUBLICATIONS

1. [A holographic quantum Hall model at integer filling.](#)  
[Niko Jokela](#) (Technion & Haifa U.), [Matti Jarvinen](#), [Matthew Lippert](#) (Crete U.). CCTP-2011-01. Jan 2011. 23 pp.  
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2. [Charged Dilatonic Black Holes and their Transport Properties.](#)  
[Blaise Gouteraux](#), [Bom Soo Kim](#), [Rene Meyer](#). Feb 2011. 6 pp.  
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3. [Strange Metallic Behaviour and the Thermodynamics of Charged Dilatonic Black Holes.](#)  
[Rene Meyer](#), [B. Gouteraux](#), [Bom Soo Kim](#). Feb 2011. 6 pp.  
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4. [SL\(2,R\) symmetry and quasi-normal modes in the BTZ black hole.](#)  
[Hong-bao Zhang](#). Feb 2011. 13 pp.  
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5. [Phases of a two dimensional large N gauge theory on a torus.](#)  
[Gautam Mandal](#) (Tata Inst.), [Takeshi Morita](#) (Crete U.). TIFR-TH-11-10, CCTP-2011-07. Mar 2011. 68 pp.  
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6. [Vanilla Technicolor at Linear Colliders.](#)  
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7. [A Gravitational Mechanism for Cosmological Screening.](#)  
[N.C. Tsamis](#) (Crete U.), [R.P. Woodard](#) (Florida U.). CCTP-11-02, UFIFT-QG-11-01. Mar 2011. 6 pp.  
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8. [Nucleus from String Theory.](#)  
[Koji Hashimoto](#) (Nishina Ctr., RIKEN), [Takeshi Morita](#) (Crete U.). CCTP-2011-08, RIKEN-MP-15. Mar 2011. 4 pp.  
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9. [Comments on F-maximization and R-symmetry in 3D SCFTs.](#)  
[Vasilis Niarchos](#) (Crete U.). **CCTP-2011-10**. Mar 2011. 17 pp.  
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10. [Discovering Technicolor.](#)  
[J.R. Andersen](#), [O. Antipin](#) (Southern Denmark U., CP-Origins), [G. Azuelos](#) (Montreal U. & TRIUMF), [L. Del Debbio](#) (Edinburgh U.), [E. Del Nobile](#), [S. Di Chiara](#), [T. Hapola](#) (Southern Denmark U., CP-Origins), [M. Jarvinen](#) (Crete U.), [P.J. Lowdon](#) (Edinburgh U.), [Y. Maravin](#) (Kansas State U.) *et al.*. CP3-ORIGINS-2011-13, **CCTP-2011-11**. Apr 2011. 105 pp.  
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[Alex Buchel](#) (Western Ontario U. & Perimeter Inst. Theor. Phys.), [Umut Gursoy](#) (CERN), [Elias Kiritsis](#) (Crete U. & APC, Paris). UWO-TH-11-5, **CCTP-2011-12**, CERN-PH-TH-2011-074. Apr 2011. 21 pp.  
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12. [Holographic \(De\)confinement Transitions in Cosmological Backgrounds.](#)  
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14. [Scalar Bremsstrahlung in Gravity-Mediated Ultrarelativistic Collisions.](#)  
[Yiannis Constantinou](#) (Crete U.), [Dmitry Gal'tsov](#) (Moscow State U.), [Pavel Spirin](#) (Moscow State U. & Crete U.), [Theodore N. Tomaras](#) (Crete U.). **CCTP-2011-17**. Jun 2011. 26 pp.  
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17. **The Graviton Propagator in de Donder Gauge on de Sitter Background.**  
[S.P. Miao](#), [N.C. Tsamis](#), [R.P. Woodard](#), . UFIFT-QG-11-03, Jun 2011. 39pp.  
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18. **Generalized Holographic Quantum Criticality at Finite Density.**  
[B. Gouteraux](#), [E. Kiritsis](#), . Jul 2011. 51pp.  
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20. **Fluctuations of a holographic quantum Hall fluid.**  
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21. **Gregory-Laflamme as the confinement/deconfinement transition in holographic QCD.**  
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22. **Gauging away Physics.**  
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[Robert G. Leigh](#), [Anastasios C. Petkou](#), [P.Marios Petropoulos](#), . Aug 2011. 4pp.  
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[Maria G. Romania](#), [N.C. Tsamis](#), [R.P. Woodard](#), . [CCTP-2011-23](#), UFIFT-QG-11-08, Aug 2011. 25pp.  
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25. **Geodesic deviation and particle creation in curved spacetimes.**  
[A. Mironov](#), [A. Morozov](#), [T.N. Tomaras](#), . FIAN-TD-15-11, ITEP-TH-25-11, [CCTP-2011-26](#), Aug 2011. 5pp.  
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28. [Finite Temperature Aging Holography.](#)  
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29. **Conformal Partial Waves: Further Mathematical Results.**  
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30. [Vector-axial vector correlators in weak electric field and the holographic dynamics of the chiral condensate.](#)  
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32. **Mini-Black-Hole production at RHIC and LHC.**  
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42. **Non-Minimal Sneutrino Inflation, Peccei-Quinn Phase Transition and non-Thermal Leptogenesis.**  
[C. Pallis](#), [N. Toumbas](#), ([Cyprus U.](#)) . Jan 2011. 21pp.  
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43. **Scalar Contribution to the Graviton Self-Energy during Inflation.**  
[Sohyun Park](#), [R.P. Woodard](#), ([Florida U.](#)) . UFIFT-QG-10-08, Jan 2011.  
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[Nikos Irges](#), ([Natl. Tech. U., Athens](#)) , [George Zoupanos](#), ([Heidelberg U.](#) & [Natl. Tech. U., Athens](#)) . Feb 2011. 15pp.  
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45. **The Holographic fluid dual to vacuum Einstein gravity.**  
[Geoffrey Compere](#), ([Amsterdam U., Inst. Math.](#)) , [Paul McFadden](#), ([Amsterdam U.](#)) , [Kostas Skenderis](#), ([Amsterdam U., Inst. Math.](#) &

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[Ioannis Bakas](#), [Dieter Lust](#), . LMU-ASC-07-11, MPP-2011-35, CERN-PH-TH-2011-051, Mar 2011. 114pp.  
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[Richard Easther](#), [Raphael Flauger](#), ([Yale U.](#)) , [Paul McFadden](#), ([Amsterdam U.](#)) , [Kostas Skenderis](#), ([Amsterdam U., Inst. Math.](#) & [Amsterdam U.](#)) . Apr 2011. 23pp.  
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- Title: Metallic characteristics in superlattices composed of insulators, NdMnO<sub>3</sub>/SrMnO<sub>3</sub>/LaMnO<sub>3</sub>
  - Authors: [J. W. Seo](#), [B. T. Phan](#), [J. Lee](#), [H.-D. Kim](#), [C. Panagopoulos](#)
  - Journal-ref: Appl. Phys. Lett. 98, 171910 (2011);
  - Subjects: Strongly Correlated Electrons (cond-mat.str-el); Materials Science (cond-mat.mtrl-sci)
51. [arXiv:1105.0860](#)
- Title: Strain-induced interface reconstruction in epitaxial heterostructures
  - Authors: [N. Lazarides](#), [V. Paltoglou](#), [P. Maniadis](#), [G. P. Tsironis](#), [C. Panagopoulos](#)
  - Comments: 6 pages (4 pages + 2 pages Supplemental material), 5 figures
  - Subjects: Strongly Correlated Electrons (cond-mat.str-el)

52. **Thermal duality and non-singular cosmology in d-dimensional superstrings.**  
[Costas Kounnas](#), [Herve Partouche](#), [Nicolaos Toumbas](#), . LPTENS-11-20, CPHT-RR046.0511, Jun 2011. 35pp.  
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53. **Nonlocal metric formulations of MOND with sufficient lensing.**  
[Cedric Deffayet](#), [Gilles Esposito-Farese](#), [Richard P. Woodard](#), . UFIFT-QG-11-02, Jun 2011. 17pp.  
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54. [arXiv:1107.0904](#)
- Title: Evidence for domain wall superconductivity in antiferromagnetic  $\text{CaFe}_{2}\text{As}_{2}$
  - Authors: [H. Xiao](#), [T. Hu](#), [A. P. Dioguardi](#), [N. Roberts-Warren](#), [A. C. Shockley](#), [J. Crocker](#), [Z. Viskadourakis](#), [X. Y. Tee](#), [I. Radulov](#), [C. C. Almasan](#), [N. J. Curro](#), [C. Panagopoulos](#)
  - Comments: 5pages, 3 figures
  - Subjects: Superconductivity (cond-mat.supr-con); Strongly Correlated Electrons (cond-mat.str-el)
55. [arXiv:1107.1924](#)
- Title: Doping dependence of the electron-phonon and electron-spin fluctuation interactions in the high- $T_c$  superconductor  $\text{Bi}_{2}\text{Sr}_{2}\text{CaCu}_{2}\text{O}_{8+\delta}$
  - Authors: [Elbert E. M. Chia](#), [D. Springer](#), [Saritha K. Nair](#), [X. Q. Zou](#), [S. A. Cheong](#), [C. Panagopoulos](#), [T. Tamegai](#), [H. Eisaki](#), [S. Ishida](#), [S. Uchida](#), [A. J. Taylor](#), [Jian-Xin Zhu](#)
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  - Subjects: Superconductivity (cond-mat.supr-con); Strongly Correlated Electrons (cond-mat.str-el)
56. [arXiv:1107.3027](#)
- Title: Finite-temperature Drude weight within the anisotropic Heisenberg chain
  - Authors: [Jacek Herbrych](#), [Peter Prelovšek](#), [Xenophon Zotos](#)
  - Journal-ref: Phys. Rev. B 84, 155125 (2011)
  - Subjects: Strongly Correlated Electrons (cond-mat.str-el)
57. **Non-Minimal Higgs Inflation and non-Thermal Leptogenesis in A Supersymmetric Pati-Salam Model.**  
[C. Pallis](#), [N. Toumbas](#), . Aug 2011. [Temporary entry](#)  
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58. **Inflationary Scalars Don't Affect Gravitons at One Loop.**  
[Sohyun Park](#), [R.P. Woodard](#), . UFIFT-QG-11-09, Sep 2011. 21pp. [Temporary entry](#)  
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59. **IVOA Recommendation: SAMP - Simple Application Messaging Protocol Version 1.2.**  
[M. Taylor](#), [T. Boch](#), [M. Fitzpatrick](#), [A. Allan](#), [L. Paioro](#), [J. Taylor](#), [D. Tody](#), .  
REC-SAMP-1.2-20101216, Oct 2011. [Brief entry](#)  
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60. **More on axial anomalies of Lifshitz fermions.**  
[Ioannis Bakas](#), . Oct 2011. 26pp. [Temporary entry](#)  
e-Print: [arXiv:1110.1332](#) [hep-th]
61. **Holography for Einstein-Maxwell-dilaton theories from generalized dimensional reduction.**  
[Blaise Gouteraux](#), [Jelena Smolic](#), [Milena Smolic](#), [Kostas Skenderis](#), [Marika Taylor](#), . ITFA-2011-15, Oct 2011. 51pp. [Temporary entry](#)  
e-Print: [arXiv:1110.2320](#) [hep-th]
62. [arXiv:1110.3481](#)  
a. Title: Ferromagnetic interaction between Cu ions in the bulk region of Cu-doped ZnO nanowires  
b. Authors: [T. Kataoka](#), [Y. Yamazaki](#), [V. R. Singh](#), [A. Fujimori](#), [F.-H. Chang](#), [H.-J. Lin](#), [D. J. Huang](#), [C. T. Chen](#), [G. Z. Xing](#), [J. W. Seo](#), [C. Panagopoulos](#), [T. Wu](#)  
c. Comments: 4 pages, 4 figures  
d. Journal-ref: Phys. Rev. B 84, 153203 (2011)  
e. Subjects: Materials Science (cond-mat.mtrl-sci)
63. [arXiv:1111.0050](#)  
a. Title: Low-temperature ferroelectric phase and magnetoelectric coupling in the underdoped  $\text{La}_{2-x}\text{CuO}_{4+x}$   
b. Authors: [Z. Viskadourakis](#), [I. Radulov](#), [A. P. Petrović](#), [S. Mukherjee](#), [B. M. Andersen](#), [G. Jelbert](#), [N.S. Headings](#), [S.M. Hayden](#), [K. Kiefer](#), [S. Landsgesell](#), [D.N. Argyriou](#), [C. Panagopoulos](#)  
c. Comments: 7 Pages, 6 Figures, supplementary material  
d. Subjects: Superconductivity (cond-mat.supr-con); Materials Science (cond-mat.mtrl-sci); Strongly Correlated Electrons (cond-mat.str-el)
64. **The Lattice Mean-Field Approximation of Gauge-Higgs Unification on the Orbifold.**  
[Kyoko Yoneyama](#), [Nikos Irges](#), [Francesco Knechtli](#), . WUB-11-18, Nov 2011.  
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65. [arXiv:1111.0541](#)  
a. Title: On the role of intrinsic disorder in the structural phase transition of magnetoelectric  $\text{EuTiO}_3$   
b. Authors: [Mattia Allieta](#), [Marco Scavini](#), [Leszek Spalek](#), [Valerio Scagnoli](#), [Helen C. Walker](#), [Christos Panagopoulos](#), [Siddharth Saxena](#), [Takuro Katsufuji](#), [Claudio Mazzoli](#)  
c. Comments: 13 pages, 8 figures, 2 tables  
d. Subjects: Strongly Correlated Electrons (cond-mat.str-el)