

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.
Published in **JHEP** **1105** (2011) **101**
e-Print: [arXiv:1101.3329](#) [hep-th]
2. Charged Dilatonic Black Holes and their Transport Properties.
[Blaise Gouteraux](#), [Bom Soo Kim](#), [Rene Meyer](#). Feb 2011. 6 pp. CCTP-2011-05
Published in **Fortsch.Phys.** **59** (2011) **723-729**
Conference: [C10-06-14.11](#)
e-Print: [arXiv:1102.4440](#) [hep-th]
3. Strange Metallic Behaviour and the Thermodynamics of Charged Dilatonic Black Holes.
[Rene Meyer](#), [B. Gouteraux](#), [Bom Soo Kim](#). Feb 2011. 6 pp. CCTP-2011-03
Published in **Fortsch.Phys.** **59** (2011) **741-748**
Conference: [C10-06-14.11](#)
e-Print: [arXiv:1102.4433](#) [hep-th]
4. $SL(2,R)$ symmetry and quasi-normal modes in the BTZ black hole.
[Hong-bao Zhang](#). Feb 2011. 13 pp. CCTP-2011-06
Published in **JHEP** **1103** (2011) **009**
e-Print: [arXiv:1102.4721](#) [hep-th]
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.
Published in **Phys.Rev.** **D84** (2011) **085007**
e-Print: [arXiv:1103.1558](#) [hep-th]
6. Vanilla Technicolor at Linear Colliders.
[Mads T. Frandsen](#), [Matti Jarvinen](#) ([Oxford U.](#), [Theor. Phys.](#)), [Francesco Sannino](#) ([Southern Denmark U.](#), [CP3-Origins](#)). CCTP-2011-09, CP3-ORIGINS-2011-08. Mar 2011. 24 pp.
Published in **Phys.Rev.** **D84** (2011) **035025**
e-Print: [arXiv:1103.3271](#) [hep-ph]
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.
e-Print: [arXiv:1103.5134](#) [gr-qc]
Published in **Int.J.Mod.Phys.** **D20** (2011) **2847-2851**

8. Nucleus from String Theory.
[Koji Hashimoto](#) ([Nishina Ctr., RIKEN](#)), [Takeshi Morita](#) ([Crete U.](#)). CCTP-2011-08, RIKEN-MP-15. Mar 2011. 4 pp.
Published in **Phys.Rev. D84 (2011) 046004**
e-Print: **arXiv:1103.5688 [hep-th]**
9. Comments on F-maximization and R-symmetry in 3D SCFTs.
[Vasilis Niarchos](#) ([Crete U.](#)). CCTP-2011-10. Mar 2011. 17 pp.
Published in **J.Phys.A A44 (2011) 305404**
e-Print: **arXiv:1103.5909 [hep-th]**
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.
Published in **Eur.Phys.J.Plus 126 (2011) 81**
e-Print: **arXiv:1104.1255 [hep-ph]**
11. Holographic bulk viscosity: GPR versus EO.
[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.
Published in **JHEP 1109 (2011) 095**
e-Print: **arXiv:1104.2058 [hep-th]**
12. Holographic (De)confinement Transitions in Cosmological Backgrounds.
[Johanna Erdmenger](#) ([Munich, Max Planck Inst.](#)), [Kazuo Ghoroku](#) ([Fukuoka Inst. Tech.](#)), [Rene Meyer](#) ([Crete U.](#)). MPI-2011-20, FIT-HE-11-01, CCTP-2011-04. May 2011. 30 pp.
Published in **Phys.Rev. D84 (2011) 026004**
e-Print: **arXiv:1105.1776 [hep-th]**
13. Josephson Junctions and AdS/CFT Networks.
[Elias Kiritsis](#) ([Crete U. & APC, Paris](#)), [Vasilis Niarchos](#). CCTP-2011-13. May 2011. 35 pp.
Published in **JHEP 1107 (2011) 112, Erratum-ibid. 1110 (2011) 095**
e-Print: **arXiv:1105.6100 [hep-th]**
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.
e-Print: **arXiv:1106.3509 [hep-th]**
Published in **JHEP 1111 (2011) 118**
15. Striped instability of a holographic Fermi-like liquid.
[Oren Bergman](#), [Niko Jokela](#), [Gilad Lifschytz](#), [Matthew Lippert](#), . Jun 2011.

- 16pp. Published in **JHEP 1110 (2011) 034 CCTP-2011-18**
e-Print: **arXiv:1106.3883** [hep-th]
16. Blackfolds in Supergravity and String Theory.
[Roberto Emparan](#), [Troels Harmark](#), [Vasilis Niarchos](#), [Niels A. Obers](#), .
NORDITA-2011-49, CCTP-2011-16, Jun 2011. 47pp.
Published in **JHEP 1108 (2011) 154**
e-Print: **arXiv:1106.4428** [hep-th]
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.
e-Print: **arXiv:1106.0925** [gr-qc]
Published in **J.Math.Phys. 52 (2011) 122301**
CCTP-2011-15
18. Generalized Holographic Quantum Criticality at Finite Density.
[B. Gouteraux](#), [E. Kiritsis](#), . Jul 2011. 51pp.
e-Print: **arXiv:1107.2116** [hep-th]
Published in **JHEP 1112 (2011) 036 CCTP-2011-20**
19. [A solution of the coincidence problem based on the recent galactic core black hole energy density increase.](#)
[Georgios Kofinas](#) (Crete U.), [Vasilios Zarikas](#) (TEL, Lamia). Jul 2011. 23 pp.
Note: 15 pages, 3 figures
e-Print: **arXiv:1107.2602** [hep-th]
20. [Fluctuations of a holographic quantum Hall fluid.](#)
[Niko Jokela](#) (Technion & Haifa U.), [Matti Jarvinen](#), [Matthew Lippert](#) (Crete U.). CCTP-2011-19. Jul 2011. 20 pp. Published in **JHEP 1201 (2012) 072**
e-Print: **arXiv:1107.3836** [hep-th]
21. Gregory-Laflamme as the confinement/deconfinement transition in holographic QCD.
[Gautam Mandal](#), [Takeshi Morita](#), . TIFR-TH-11-24, CCTP-2011-14, Jul 2011. 42pp.
Published in **JHEP 1109 (2011) 073**
e-Print: **arXiv:1107.4048** [hep-th]
22. [Gauging away Physics.](#)
[S.P. Miao](#) (Utrecht U.), [N.C. Tsamis](#) (Crete U.), [R.P. Woodard](#) (Florida U.).
UFIFT-QG-11-06, SPIN-11-22, CCTP-2011-22, UFIFT-QG-11-06. Jul 2011. 20 pp.
e-Print: **arXiv:1107.4733** [gr-qc]
Published in **Class.Quant.Grav. 28 (2011) 245013**
23. [Holographic Three-Dimensional Fluids with Nontrivial Vorticity.](#)
[Robert G. Leigh](#) (Perimeter Inst. Theor. Phys.), [Anastasios C. Petkou](#) (Crete U.), [P.Marios Petropoulos](#) (Ecole Polytechnique, CPHT). Aug 2011. 4 pp.
Note: 4 pages

Published in **Phys.Rev. D85 (2012) 086010**
e-Print: **arXiv:1108.1393 [hep-th]**

24. Primordial Gravitational Waves Enhancement.
[Maria G. Romania](#), [N.C. Tsamis](#), [R.P. Woodard](#), . CCTP-2011-23, UFIFT-QG-11-08, Aug 2011. 25pp.
e-Print: **arXiv:1108.1696 [gr-qc]**
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.
e-Print: **arXiv:1108.2821 [gr-qc]**
Published in **JETP Lett. 94 (2012) 795-799, Pisma Zh.Eksp.Teor.Fiz. 94 (2011) 872**
26. Generalizing the ADM Computation to Quantum Field Theory.
[P.J. Mora \(Florida U.\)](#), [N.C. Tsamis \(Crete U.\)](#), [R.P. Woodard \(Florida U.\)](#). CCTP-2011-27, UFIFT-QG-11-07. Aug 2011. 42 pp.
e-Print: **arXiv:1108.4367 [gr-qc]**
Published in **Class.Quant.Grav. 29 (2012) 025001**
27. F-theorem, duality and SUSY breaking in one-adjoint Chern-Simons-Matter theories.
[Takeshi Morita](#), [Vasilis Niarchos \(Crete U.\)](#). CCTP-2011-24. Aug 2011. 43 pp. Published in **Nucl.Phys. B858 (2012) 84-116**
e-Print: **arXiv:1108.4963 [hep-th]**
28. Finite Temperature Aging Holography.
[Seungjoon Hyun](#), [Jaehoon Jeong](#), [Bom Soo Kim](#). Aug 2011. 34 pp.
e-Print: **arXiv:1108.5549 [hep-th]**
Published in **JHEP 1203 (2012) 010** CCTP-2011-31
29. Conformal Partial Waves: Further Mathematical Results.
[F.A. Dolan \(Crete U.\)](#), [H. Osborn \(Cambridge U., DAMTP\)](#). DAMTP-11-64. Aug 2011 47 pp.
e-Print: **arXiv:1108.6194 [hep-th]** CCTP-2011-32
30. Vector-axial vector correlators in weak electric field and the holographic dynamics of the chiral condensate.
[Ioannis Iatrakis \(Crete U.\)](#), [Elias Kiritsis \(Crete U. & APC, Paris\)](#). CCTP-2011-28. Sep 2011. 19 pp.
e-Print: **arXiv:1109.1282 [hep-ph]**
Published in **JHEP 1202 (2012) 064**
31. Measurement of the neutrino velocity with the OPERA detector in the CNGS beam [OPERA](#) Collaboration ([T. Adam et al.](#)). Sep 2011. 24 pp.
e-Print: **arXiv:1109.4897 [hep-ex]**
32. Holographic non-relativistic fermionic fixed point and bulk dipole coupling.
[Wei-Jia Li \(Beijing Normal U.\)](#), [Hong-bao Zhang \(Crete U.\)](#). Oct 2011. 17 pp.

Note: JHEP style, 1+17 pages, 9 figures, 1 table, typos corrected, references added, version to appear in JHEP CCTP-2011-34
Published in **JHEP 1111 (2011) 018**
e-Print: **arXiv:1110.4559 [hep-th]**

33. Mini-Black-Hole production at RHIC and LHC.
[Elias Kiritsis](#), [Anastasios Taliotis](#), . CCTP-2011-35, Oct 2011. 10pp.
e-Print: **arXiv:1110.5642 [hep-ph]**
34. Heavy quarks in a magnetic field.
[Elias Kiritsis](#) ([Crete U.](#) & [APC, Paris](#)), [George Pavlopoulos](#) ([Crete U.](#)). Nov 2011. 21 pp. Note: (v3) Misprints corrected, discussion on moving horizons improved and enhanced
Published in **JHEP 1204 (2012) 096**
e-Print: **arXiv:1111.0314 [hep-th] CCTP-2011-36**
35. Dressed spectral densities for heavy quark diffusion in holographic plasmas.
[Elias Kiritsis](#), [Liuba Mazzanti](#), [Francesco Nitti](#). Nov 2011. 51 pp. Note: *
Temporary entry *; 51 pages, 2 figures
Published in **J.Phys.G G39 (2012) 054003**
e-Print: **arXiv:1111.1008 [hep-th] CCTP-2011-29**
36. Multiplicities from black-hole formation in heavy-ion collisions.
[Elias Kiritsis](#), [Anastasios Taliotis](#). Nov 2011. 38 pp. Note: * Temporary entry *; 38 pages, 5 figures, 4 tables/ minor typos corrected, figure 5 added, references added
Published in **JHEP 1204 (2012) 065**
e-Print: **arXiv:1111.1931 [hep-ph] CCTP-2011-33**
37. Holographic non-relativistic fermionic fixed point by the charged dilatonic black hole.
[Wei-Jia Li](#) ([Beijing Normal U.](#)), [Rene Meyer](#), [Hongbao Zhang](#) ([Crete U.](#)). CCTP-2011-38. Nov 2011. 19 pp. Published in **JHEP 1201 (2012) 153**
e-Print: **arXiv:1111.3783 [hep-th]**
38. What is the gravity dual of the confinement/deconfinement transition in holographic QCD?.
[Gautam Mandal](#), [Takeshi Morita](#). TIFR-TH-11-49. Nov 2011. 6 pp.
CCTP-2011-39
Published in **J.Phys.Conf.Ser. 343 (2012) 012079**
Conference: [C11-08-07](#)
e-Print: **arXiv:1111.5190 [hep-th]**
39. A holographic model of the quantum Hall effect.
[Oren Bergman](#) ([Technion](#)), [Niko Jokela](#) ([Technion](#) & [Haifa U.](#)), [Gilad](#)

[Lifschytz \(Haifa U.\)](#), [Matthew Lippert \(Crete U.\)](#). Feb 2011. 7 pp.
Published in **Fortsch.Phys.** **59 (2011) 734-740**
Conference: [C10-06-14.11](#) CCTP-2011-41

40. [Holographic Models for QCD in the Veneziano Limit.](#)
[Matti Jarvinen \(Crete U.\)](#), [Elias Kiritsis \(Crete U. & APC, Paris\)](#). Dec 2011.
32 pp. Note: 55+32 pages, 16 figures. v2: several comments, references, and a
new figure added
Published in **JHEP** **1203 (2012) 002**
e-Print: [arXiv:1112.1261 \[hep-ph\]](#)
CCTP-2011-30

41. [Parity-Violating Hydrodynamics in 2+1 Dimensions.](#)
[Kristan Jensen \(Victoria U.\)](#), [Matthias Kaminski \(Princeton U. & Washington U., Seattle\)](#), [Pavel Kovtun \(Victoria U.\)](#), [Rene Meyer \(Crete U.\)](#), [Adam Ritz \(Victoria U.\)](#), [Amos Yarom \(Technion\)](#). Dec 2011. 40 pp. Note: 39+1 pages
Published in **JHEP** **1205 (2012) 102** CCTP-2011-43
e-Print: [arXiv:1112.4498 \[hep-th\]](#)

42. [New results for the SQCD Hilbert series.](#)
[Niko Jokela \(Santiago de Compostela U. & Santiago de Compostela U., IGFAE\)](#), [Matti Jarvinen \(Crete U.\)](#), [Esko Keski-Vakkuri \(Helsinki Inst. of Phys. & Helsinki U. & Uppsala U.\)](#). Dec 2011. 33 pp. Note: 33 pages, 2
figures/ v2: references and comments on the 3rd order phase transition added
CCTP-2011-40
Published in **JHEP** **1203 (2012) 048**
e-Print: [arXiv:1112.5454 \[hep-th\]](#)

43. [Light transmission measurements with LAMS in the Mediterranean Sea.](#)
[KM3NeT Collaboration \(E.G. Anassontzis \(Athens U.\) et al.\)](#). 2011.
Published in **Nucl.Instrum.Meth.** **A626-627 (2011) S120-S123**
Prepared for [SPIRES Conference C09/10/13.2](#)

44. [Spectral characteristics of scalar higher-dimensional bremsstrahlung.](#)
[P. Spirin \(Moscow State U. & Crete U.\)](#). 2011. 6 pp. CCTP-2011-42
Published in **Grav.Cosmol.** **17 (2011) 61-66**
Prepared for International Conference on Modern Problems of [SPIRES Conference C10/06/27.1](#) (Conference information coming soon)

45. Special and general relativity corrections for the OPERA neutrino velocity experiment.
[Elias Kiritsis and Fransesco Nitti](#), CCTP-2011-37, Sept. 2011, 11p. OPERA report: <http://operaweb.lngs.infn.it:2080/Opera/publicnotes/note136.pdf>

Associated members:

46. Non-Minimal Sneutrino Inflation, Peccei-Quinn Phase Transition and non-Thermal Leptogenesis.

- [C. Pallis](#), [N. Toumbas](#), ([Cyprus U.](#)) . Jan 2011. 21pp.
Published in **JCAP 1102:019,2011**.
e-Print: **arXiv:1101.0325** [hep-ph]
47. Scalar Contribution to the Graviton Self-Energy during Inflation.
[Sohyun Park](#), [R.P. Woodard](#), ([Florida U.](#)) . UFIFT-QG-10-08, Jan 2011.
(Received Apr 15, 2011).
Published in **Phys.Rev.D83:084049,2011**.
e-Print: **arXiv:1101.5804** [gr-qc]
48. Reduction of N=1, E_8 SYM over SU(3)/U(1) x U(1) x Z_3 and its four-dimensional effective action.
[Nikos Irges](#), ([Natl. Tech. U., Athens](#)) , [George Zoupanos](#), ([Heidelberg U.](#) & [Natl. Tech. U., Athens](#)) . Feb 2011. 15pp.
Published in **Phys.Lett.B698:146-151,2011**.
e-Print: **arXiv:1102.2220** [hep-ph]
49. The Holographic fluid dual to vacuum Einstein gravity.
[Geoffrey Compere](#), ([Amsterdam U., Inst. Math.](#)) , [Paul McFadden](#), ([Amsterdam U.](#)) , [Kostas Skenderis](#), ([Amsterdam U., Inst. Math.](#) & [Amsterdam U.](#)) , [Marika Taylor](#), ([Amsterdam U.](#)) . ITFA-11-03, Mar 2011.
36pp.
Published in **JHEP 1107:050,2011**.
e-Print: **arXiv:1103.3022** [hep-th]
50. Axial anomalies of Lifshitz fermions.
[Ioannis Bakas](#), [Dieter Lust](#), . LMU-ASC-07-11, MPP-2011-35, CERN-PH-TH-2011-051, Mar 2011. 114pp.
e-Print: **arXiv:1103.5693** [hep-th]
51. “Parent-molecule rotational depolarization of photofragment angular momentum distributions: diatomic and polyatomic molecules”
Lykourgos Bougas and T. Peter Rakitzis,
PhysChemChemPhys. 13, 8526 (2011).
Published 22 Mar 2011
52. “Quantum state-to-state photodissociation of OCS(v2=1|Jl=11): Variation of S(1D2) electronic polarization with correlated single rotational quantum states of CO(J),”
M.L. Lipciuc, T.P. Rakitzis, G.C. Groenenboom, W. Leo Meerts, M.H.M. Janssen,
PhysChemChemPhys. 13, 8549 (2011).
Published 22 Mar 2011
53. Flavor Corrections in the Static Potential in Holographic QCD.
[Dimitrios Giataganas](#), ([Witwatersrand U.](#)) , [Nikos Irges](#), ([Natl. Tech. U.](#),

[Athens](#)) . WITS-CTP-69, Apr 2011. 28pp.
e-Print: [arXiv:1104.1623](#) [hep-th]

54. Constraining holographic inflation with WMAP.
[Richard Easther](#), [Raphael Flauger](#), ([Yale U.](#)) , [Paul McFadden](#),
([Amsterdam U.](#)) , [Kostas Skenderis](#), ([Amsterdam U., Inst. Math.](#) &
[Amsterdam U.](#)) . Apr 2011. 23pp.
Published in **JCAP 1109:030,2011**.
e-Print: [arXiv:1104.2040](#) [astro-ph.CO]
55. Cosmological 3-point correlators from holography.
[Paul McFadden](#), ([Amsterdam U.](#)) , [Kostas Skenderis](#), ([Amsterdam U., Inst.](#)
[Math.](#) & [Amsterdam U.](#)) . ITFA-11-08, Apr 2011. 41pp.
Published in **JCAP 1106:030,2011**.
e-Print: [arXiv:1104.3894](#) [hep-th]
56. [arXiv:1104.4694](#)
- Title: Metallic characteristics in superlattices composed of insulators, NdMnO₃/SrMnO₃/LaMnO₃
 - 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)
57. [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)
58. “Evanescent-wave cavity ring-down ellipsometry”,
M.A. Everest, V. Papadakis, K. Stamataki, S. Tzortzakis, B. Loppinet,
T.P. Rakitzis, J. Phys. Chem. Lett. 2, 1324 (2011).
Published 17 May 2011
59. 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.
e-Print: [arXiv:1106.0946](#) [hep-th]

60. Nonlocal metric formulations of MOND with sufficient lensing.
[Cedric Deffayet](#), [Gilles Esposito-Farese](#), [Richard P. Woodard](#), .
 UFIFT-QG-11-02, Jun 2011. 17pp.
 e-Print: [arXiv:1106.4984](#) [gr-qc]
61. [arXiv:1107.0904](#) [[pdf](#), [ps](#), [other](#)]
 61.arXiv:1107.0904
 Evidence for filamentary superconductivity nucleated at antiphase domain walls in antiferromagnetic CaFe_2As_2
[H. Xiao](#), [T. Hu](#), [A. P. Dioguardi](#), [N. Roberts-Warren](#), [A. C. Shockley](#), [J. Crocker](#), [D. M. Nisson](#), [Z. Viskadourakis](#), [Xianyang Tee](#), [I. Radulov](#), [C. C. Almasan](#), [N. J. Curro](#), [C. Panagopoulos](#)
 Comments: 6pages, 6 figures
 Journal-ref: Phys. Rev. B 85, 024530 (2012) Editors' suggestion
 Subjects: Superconductivity (cond-mat.supr-con); Strongly Correlated Electrons (cond-mat.str-el)
62. [arXiv:1107.1924](#)
 a. Title: Doping dependence of the electron-phonon and electron-spin fluctuation interactions in the high- T_c superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$
 b. 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](#)
 c. Comments: 5 pages, 3 figures
 d. Subjects: Superconductivity (cond-mat.supr-con); Strongly Correlated Electrons (cond-mat.str-el)
63. [arXiv:1107.3027](#)
 a. Title: Finite-temperature Drude weight within the anisotropic Heisenberg chain
 b. Authors: [Jacek Herbrych](#), [Peter Prelovšek](#), [Xenophon Zotos](#)
 c. Journal-ref: Phys. Rev. B 84, 155125 (2011)
 d. Subjects: Strongly Correlated Electrons (cond-mat.str-el)
64. Non-Minimal Higgs Inflation and non-Thermal Leptogenesis in A Supersymmetric Pati-Salam Model.
[C. Pallis](#), [N. Toumbas](#), . Aug 2011. [Temporary entry](#)
 e-Print: [arXiv:1108.1771](#) [hep-ph]
65. Inflationary Scalars Don't Affect Gravitons at One Loop.
[Sohyun Park](#), [R.P. Woodard](#), . UFIFT-QG-11-09, Sep 2011. 21pp.
[Temporary entry](#)
 e-Print: [arXiv:1109.4187](#) [gr-qc]

66. 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](#)
e-Print: [arXiv:1110.0528](#) [astro-ph.IM]
67. More on axial anomalies of Lifshitz fermions.
[Ioannis Bakas](#), . Oct 2011. 26pp. [Temporary entry](#)
e-Print: [arXiv:1110.1332](#) [hep-th]
68. 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]
69. [arXiv:1110.3481](#)
- Title: Ferromagnetic interaction between Cu ions in the bulk region of Cu-doped ZnO nanowires
 - 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](#)
 - Comments: 4 pages, 4 figures
 - Journal-ref: Phys. Rev. B 84, 153203 (2011)
 - Subjects: Materials Science (cond-mat.mtrl-sci)
70. [arXiv:1111.0050](#)
- Title: Low-temperature ferroelectric phase and magnetoelectric coupling in the underdoped $\text{La}_{2-x}\text{CuO}_{4+x}$
 - 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](#)
 - Comments: 7 Pages, 6 Figures, supplementary material
 - Subjects: Superconductivity (cond-mat.supr-con); Materials Science (cond-mat.mtrl-sci); Strongly Correlated Electrons (cond-mat.str-el)
71. The Lattice Mean-Field Approximation of Gauge-Higgs Unification on the Orbifold.
[Kyoko Yoneyama](#), [Nikos Irges](#), [Francesco Knechtli](#), . WUB-11-18, Nov 2011. 7pp.
e-Print: [arXiv:1111.0479](#) [hep-lat]
72. [arXiv:1111.0541](#)
- Title: On the role of intrinsic disorder in the structural phase transition of magnetoelectric EuTiO_3
 - 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)

73. arXiv: 1111. 4194

Interface superconductivity: History, development and prospects
[Juan Pereiro](#), [Alexander Petrovic](#), [Christos Panagopoulos](#), [Ivan Božović](#)
Comments: [this http URL](#)
Journal-ref: Physics Express, 1, 208-241 (2011)
Subjects: Superconductivity (cond-mat.supr-con)

74. [arXiv:1111.5017](#) [[pdf](#), [other](#)]

Magnetic excitations in the spin-1 anisotropic antiferromagnet $\text{NiCl}_2\text{-4SC}(\text{NH}_2)_2$
[C. Psaroudaki](#), [S. A. Zvyagin](#), [J. Krzystek](#), [A. Paduan-Filho](#), [X. Zotos](#), [N. Papanicolaou](#)
Comments: 9 pages, 10 figures
Journal-ref: Phys. Rev. B 85, 014412 (2012)
Subjects: Strongly Correlated Electrons (cond-mat.str-el)

75. [S-brane to thermal non-singular string cosmology.](#)

[Costas Kounnas](#), [Herve Partouche](#), [Nicolaos Toumbas](#). Nov 2011. 34 pp. Note: * Temporary entry *; 1+35 pages
Published in **Class.Quant.Grav.** **29** (2012) **095014**
e-Print: [arXiv:1111.5816](#) [[hep-th](#)]

76. [arXiv:1112.1524](#) [[pdf](#), [ps](#), [other](#)]

Theory of the magnetoelectric effect in a lightly doped high-Tc cuprate
[S. Mukherjee](#), [B. M. Andersen](#), [Z. Viskadourakis](#), [I. Radulov](#), [C. Panagopoulos](#)
Comments: 5 pages, 4 figures
Journal-ref: Phys. Rev. B 85, 140405(R) (2012)
Subjects: Superconductivity (cond-mat.supr-con); Materials Science (cond-mat.mtrl-sci); Strongly Correlated Electrons (cond-mat.str-el)

77. [Holographic predictions for cosmological 3-point functions.](#)

[Adam Bzowski](#) ([Amsterdam U., Inst. Math.](#)), [Paul McFadden](#) ([Perimeter Inst. Theor. Phys.](#)), [Kostas Skenderis](#) ([Amsterdam U.](#) & [Amsterdam U., Inst. Math.](#)). Dec 2011. 51 pp. Note: 51pp/ 4 figs
Published in **JHEP** **1203** (2012) **091**
e-Print: [arXiv:1112.1967](#) [[hep-th](#)]

78. [arXiv:1112.4333](#) [[pdf](#), [ps](#), [other](#)]

Spinon heat transport and spin-phonon interaction in the antiferromagnetic spin-1/2 Heisenberg chain cuprates Sr_2CuO_3 and SrCuO_2
[N. Hlubek](#), [X. Zotos](#), [S. Singh](#), [R. Saint-Martin](#), [A. Revcolevschi](#), [B. Büchner](#), [C. Hess](#)

Comments: revised version, accepted by: Journal of Statistical Mechanics:
theory and experiment
Journal-ref: J. Stat. Mech. (2012) P03006
Subjects: Strongly Correlated Electrons (cond-mat.str-el)

79. [The Coincidence Limit of the Graviton Propagator in de Donder Gauge on de Sitter Background.](#)
[E.O. Kahya \(Jena U.\)](#), [S.P. Miao \(Utrecht U.\)](#), [R.P. Woodard \(Florida U.\)](#). Dec 2011. 41 pp. Note: 41 pages, uses LaTeX 2e, version 2 has some typos corrected
Published in **J.Math.Phys.** **53** (2012) **022304**
e-Print: **arXiv:1112.4420 [gr-qc]**