

Physics

Authors and titles for Jun 2011, skipping [first 650](#)

[total of 690 entries: [1-25](#) | ... | [576-600](#) | [601-625](#) | [626-650](#) | [651-675](#) | [676-690](#)]

[showing 25 entries per page: [fewer](#) | [more](#) | [all](#)]

[651] [arXiv:1106.5390](#) (cross-list from [cond-mat.stat-mech](#)) [[pdf](#), [ps](#), [other](#)]

Stochastic dynamics of an electron in a Penning trap: phase flips correlate with amplitude collapses and revivals

[S. Brouard](#), [J. Plata](#)

Comments: 15 pages, 6 figures

Journal-ref: Phys. Rev. A 83, 063408 (2011)

Subjects: **Statistical Mechanics (cond-mat.stat-mech)**; Atomic Physics (physics.atom-ph)

[652] [arXiv:1106.5525](#) (cross-list from [cond-mat.mtrl-sci](#)) [[pdf](#)]

Magnetically-triggered Nanocomposite Membranes: a Versatile Platform for Triggered Drug Release

[Todd Hoare](#), [Brian P. Timko](#), [Jesus Santamaria](#), [Gerardo F. Goya](#), [Silvia Irusta](#), [Debora Lin](#), [Samantha Lau](#), [Robert Langer](#), [Daniel S. Kohane](#)

Comments: 13 Pages + Supplementary material

Journal-ref: Nano Lett., 2011, 11 (3), pp 1395-1400

Subjects: **Materials Science (cond-mat.mtrl-sci)**; Biological Physics (physics.bio-ph); Subcellular Processes (q-bio.SC)

[653] [arXiv:1106.5526](#) (cross-list from [cond-mat.supr-con](#)) [[pdf](#), [other](#)]

High-Temperature Superconductivity in Atomic Metallic Hydrogen

[Jeffrey M. McMahon](#), [David M. Ceperley](#)

Comments: 19 pages; 9 figures; 4 tables

Subjects: **Superconductivity (cond-mat.supr-con)**; Computational Physics (physics.comp-ph)

[654] [arXiv:1106.5557](#) (cross-list from [cond-mat.stat-mech](#)) [[pdf](#), [ps](#), [other](#)]

Quantum chaos: an introduction via chains of interacting spins-1/2

[Aviva Gubin](#), [Lea F. Santos](#)

Comments: 7 pages, 3 figures

Journal-ref: Am. J. Phys. 80, 246 (2012)

Subjects: **Statistical Mechanics (cond-mat.stat-mech)**; Quantum Physics (quant-ph)

[655] [arXiv:1106.5594](#) (cross-list from [cs.SI](#)) [[pdf](#), [other](#)]

The Swiss Board Directors Network in 2009

[Fabio Daolio](#), [Marco Tomassini](#), [Konstantin Bitkov](#)

Comments: Submitted to The European Physical Journal B

Subjects: **Social and Information Networks (cs.SI)**; Physics and Society (physics.soc-ph)

[656] [arXiv:1106.5609](#) (cross-list from [nlin.PS](#)) [[pdf](#), [ps](#), [other](#)]

A refined empirical stability criterion for nonlinear Schroedinger solitons under spatiotemporal forcing

[Franz G. Mertens](#), [Niurka R. Quintero](#), [I. V. Barashenkov](#), [A. R. Bishop](#)

Comments: 29 pages

[657] [arXiv:1106.5673](#) (cross-list from hep-lat) [[pdf](#), [ps](#), [other](#)]

QCD simulations with staggered fermions on GPUs

[Claudio Bonati](#), [Guido Cossu](#), [Massimo D'Elia](#), [Pietro Incardona](#)

Comments: 22 pages, 14 eps figures, final version to be published in Computer Physics Communications

Journal-ref: Computer Physics Communications 183 (2012) 853-863

Subjects: **High Energy Physics - Lattice (hep-lat)**; Computational Physics (physics.comp-ph)

[658] [arXiv:1106.5713](#) (cross-list from quant-ph) [[pdf](#), [ps](#), [other](#)]

Two-particle bosonic-fermionic quantum walk via 3D integrated photonics

[Linda Sansoni](#), [Fabio Sciarrino](#), [Giuseppe Vallone](#), [Paolo Mataloni](#), [Andrea Crespi](#), [Roberta Ramponi](#), [Roberto Osellame](#)

Comments: 4 pages, 5 figures + supplementary information

Journal-ref: Phys. Rev. Lett. 108, 010502 (2012)

Subjects: **Quantum Physics (quant-ph)**; Statistical Mechanics (cond-mat.stat-mech); Optics (physics.optics)

[659] [arXiv:1106.5717](#) (cross-list from quant-ph) [[pdf](#), [ps](#), [other](#)]

Finite-temperature nonlinear dynamics in cavity QED: A Thermofield Dynamics Approach

[D.U.Matrasulov](#), [T.Ruzmetov](#), [D.M.Otajanov](#), [P.K.Khabibullaev](#), [A.A.Saidov](#), [F.C.Khanna](#)

Journal-ref: Physics Letters A 373 (2009) 238-242

Subjects: **Quantum Physics (quant-ph)**; Mesoscale and Nanoscale Physics (cond-mat.mes-hall); Chaotic Dynamics (nlin.CD); Atomic Physics (physics.atom-ph)

[660] [arXiv:1106.5725](#) (cross-list from hep-lat) [[pdf](#), [other](#)]

Lattice Monte Carlo calculations for unitary fermions in a harmonic trap

[Michael G. Endres](#), [David B. Kaplan](#), [Jong-Wan Lee](#), [Amy N. Nicholson](#)

Comments: 48 pages, 19 figures, published version, some text revised, typos corrected, title changed in journal; previously "Unitary fermions on the 1D lattice in a harmonic trap"

Journal-ref: Phys. Rev. A 84, 043644 (2011)

Subjects: **High Energy Physics - Lattice (hep-lat)**; Quantum Gases (cond-mat.quant-gas); Nuclear Theory (nucl-th); Atomic Physics (physics.atom-ph)

[661] [arXiv:1106.5793](#) (cross-list from cond-mat.stat-mech) [[pdf](#), [ps](#), [other](#)]

A Replica Inference Approach to Unsupervised Multi-Scale Image Segmentation

[Dandan Hu](#), [Peter Ronhovde](#), [Zohar Nussinov](#)

Comments: 26 pages, 22 figures

Journal-ref: Phys. Rev. E 85, 016101 (2012)

Subjects: **Statistical Mechanics (cond-mat.stat-mech)**; Computer Vision and Pattern Recognition (cs.CV); Physics and Society (physics.soc-ph)

[662] [arXiv:1106.5924](#) (cross-list from cond-mat.soft) [[pdf](#)]

Change of caged dynamics at Tg in hydrated proteins found after suppressing the methyl-group rotation contribution

[K. L. Ngai](#), [S. Capaccioli](#), [A. Paciaroni](#)

Comments: 23 pages, 7 figures

Subjects: **Soft Condensed Matter (cond-mat.soft)**; Biological Physics (physics.bio-ph)

[663] [arXiv:1106.5938](#) (cross-list from cond-mat.stat-mech) [[pdf](#), [other](#)]

Susceptibility divergence, phase transition and multistability of a highly turbulent closed flow

[P.-P. Cortet](#), [E. Herbert](#), [A. Chiffaudel](#), [F. Daviaud](#), [B. Dubrulle](#), [V. Padilla](#)

Comments: to appear in Journal of Statistical Mechanics

Journal-ref: Journal of Statistical Mechanics P07012 (2011)

Subjects: **Statistical Mechanics (cond-mat.stat-mech)**; Fluid Dynamics (physics.flu-dyn)

[664] [arXiv:1106.5987](#) (cross-list from math-ph) [[pdf](#), [ps](#), [other](#)]

Closed form solution for a double quantum well using Gröbner basis

[A. Acus](#), [A. Dargys](#)

Comments: 4 figures, Mathematica full calculation notebook

Subjects: **Mathematical Physics (math-ph)**; Computational Physics (physics.comp-ph)

[665] [arXiv:1106.5994](#) (cross-list from quant-ph) [[pdf](#), [other](#)]

An explanation of interference effects in the double slit experiment: Classical trajectories plus ballistic diffusion caused by zero-point fluctuations

[Gerhard Groessing](#), [Siegfried Fussy](#), [Johannes Mesa Pascasio](#), [Herbert Schwabl](#)

Comments: 26 pages, 6 figures; accepted version to be published in Annals of Physics (2012)

Journal-ref: Ann. Phys. 327, 2 (2012), 421-437

Subjects: **Quantum Physics (quant-ph)**; Classical Physics (physics.class-ph)

[666] [arXiv:1106.6118](#) (cross-list from cond-mat.soft) [[pdf](#), [ps](#), [other](#)]

Electric field inside a "Rosky cavity" in uniformly polarized water

[Daniel R. Martin](#), [Allan D. Friesen](#), [Dmitry V. Matyushov](#)

Comments: 9 pages, 8 figures

Subjects: **Soft Condensed Matter (cond-mat.soft)**; Biological Physics (physics.bio-ph); Chemical Physics (physics.chem-ph)

[667] [arXiv:1106.6178](#) (cross-list from astro-ph.EP) [[pdf](#)]

Lunar Eclipse of June, 15, 2011: Three-color umbra surface photometry

[Oleg S. Ugolnikov](#), [Igor A. Maslov](#), [Stanislav A. Korotkiy](#)

Comments: 4 pages, 2 figures

Subjects: **Earth and Planetary Astrophysics (astro-ph.EP)**; Atmospheric and Oceanic Physics (physics.ao-ph)

[668] [arXiv:1106.6200](#) (cross-list from cond-mat.stat-mech) [[pdf](#), [ps](#), [other](#)]

Scaling Relations for Watersheds

[E. Fehr](#), [D. Kadau](#), [N. A. M. Araújo](#), [J. S. Andrade Jr.](#), [H. J. Herrmann](#)

Journal-ref: Physical Review E 84, 036116 (2011)

Subjects: **Statistical Mechanics (cond-mat.stat-mech)**; Computational Physics (physics.comp-ph); Geophysics (physics.geo-ph)

[669] [arXiv:1106.6217](#) (cross-list from cs.DC) [[pdf](#)]

Computing trends using graphic processor in high energy physics

[Mihai Niculescu](#), [Sorin-Ion Zgura](#)

Subjects: **Distributed, Parallel, and Cluster Computing (cs.DC)**; High Energy Physics - Experiment (hep-ex); Computational Physics (physics.comp-ph)

[670] [arXiv:1106.6233](#) (cross-list from math.NA) [[pdf](#), [other](#)]

On diffuse interface modeling and simulation of surfactants in two-phase fluid flow

[Stefan Engblom](#), [Minh Do-Quang](#), [Gustav Amberg](#), [Anna-Karin Tornberg](#)

Subjects: **Numerical Analysis (math.NA)**; Analysis of PDEs (math.AP); Fluid Dynamics (physics.flu-dyn)

[671] [arXiv:1106.6236](#) (cross-list from nlin.CD) [[pdf](#), [ps](#), [other](#)]

Classical dynamics and particle transport in kicked billiards

[D.U. Matrasulov](#), [U.R. Salomov](#), [G.M. Milibaeva](#), [N.E. Iskandarov](#)

Journal-ref: Physica D 240, 470 (2011)

Subjects: **Chaotic Dynamics (nlin.CD)**; Mesoscale and Nanoscale Physics (cond-mat.mes-hall); Exactly Solvable and Integrable Systems (nlin.SI); Atomic Physics (physics.atom-ph); Classical Physics (physics.class-ph)

[672] [arXiv:1106.6244](#) (cross-list from cond-mat.dis-nn) [[pdf](#), [other](#)]

Critical behavior of the Random-Field Ising Magnet with long range correlation disorder

[Björn Ahrens](#), [Alexander K. Hartmann](#)

Comments: 9 pages, 13 figures

Subjects: **Disordered Systems and Neural Networks (cond-mat.dis-nn)**; Computational Physics (physics.comp-ph)

[673] [arXiv:1106.6266](#) (cross-list from [cond-mat.supr-con](#)) [[pdf](#)]

Millimeter-wave study of London penetration depth temperature dependence in $\text{Ba}(\text{Fe}_{0.926}\text{Co}_{0.074})_2\text{As}_2$ single crystal

[A.A. Barannik](#), [N.T. Cherpak](#), [N. Ni](#), [M.A. Tanatar](#), [S.A. Vitusevich](#), [V.N. Skresanov](#), [P.C. Canfield](#), [R. Prozorov](#), [V.V. Glazov](#), [K.I. Torokhtii](#)

Comments: 6 pages, 2 figures, to be published in *Low Temperature Physics*, vol.37, August 2011

Subjects: **Superconductivity** ([cond-mat.supr-con](#)); Instrumentation and Detectors ([physics.ins-det](#))

[674] [arXiv:1106.6295](#) (cross-list from [cond-mat.quant-gas](#)) [[pdf](#), [other](#)]

Condensed Fraction of an Atomic Bose Gas Induced by Critical Correlations

[Robert P. Smith](#), [Naaman Tammuz](#), [Robert L. D. Campbell](#), [Markus Holzmann](#), [Zoran Hadzibabic](#)

Comments: 4 pages, 3 figures

Journal-ref: *Phys. Rev. Lett.* 107, 190403 (2011)

Subjects: **Quantum Gases** ([cond-mat.quant-gas](#)); Statistical Mechanics ([cond-mat.stat-mech](#)); Atomic Physics ([physics.atom-ph](#)); Quantum Physics ([quant-ph](#))

[675] [arXiv:1106.6306](#) (cross-list from [cond-mat.stat-mech](#)) [[pdf](#), [ps](#), [other](#)]

Exact solution of a stochastic protein dynamics model with delayed degradation

[Luis F. Lafuerza](#), [Raul Toral](#)

Subjects: **Statistical Mechanics** ([cond-mat.stat-mech](#)); Biological Physics ([physics.bio-ph](#))

[total of 690 entries: [1-25](#) | ... | [576-600](#) | [601-625](#) | [626-650](#) | **[651-675](#)** | [676-690](#)]

[showing 25 entries per page: [fewer](#) | [more](#) | [all](#)]

Links to: [arXiv](#), [form interface](#), [find](#), [physics](#), [1301](#), [contact](#), [help](#) ([Access key information](#))