



# Physics

## Authors and titles for Jun 2011, skipping [first 325](#)

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[326] [arXiv:1106.4698](#) [[pdf](#), [ps](#), [other](#)]

### Path-analysis of metric-first & entropy-first approaches

[P. Fraundorf](#)

Comments: 12 pages (10 figs, 1 table, 53 refs) RevTeX, cf. [this http URL](#)

Subjects: **General Physics (physics.gen-ph)**; Physics Education (physics.ed-ph)

[327] [arXiv:1106.4705](#) [[pdf](#), [ps](#), [other](#)]

### The scale-free texture of the fast solar wind

[B. Hnat](#), [S. C. Chapman](#), [G. Gogoberidze](#), [R. Wicks](#)

Subjects: **Space Physics (physics.space-ph)**; Data Analysis, Statistics and Probability (physics.data-an)

[328] [arXiv:1106.4727](#) [[pdf](#), [other](#)]

### Experimental evidence of Alfvén wave propagation in a Gallium alloy

[Thierry Alboussiere](#) (ISTerre, LGL-TPE), [Philippe Cardin](#) (ISTerre), [François Debray](#) (LNCMI), [Patrick La Rizza](#) (ISTerre), [Jean-Paul Masson](#) (ISTerre), [Franck Plunian](#) (ISTerre), [Adolfo Ribeiro](#) (LIMSI), [Denys Schmitt](#) (ISTerre)

Comments: 19 pages; Physics of Fluids (2011) 1

Subjects: **Fluid Dynamics (physics.flu-dyn)**; Solar and Stellar Astrophysics (astro-ph.SR); Geophysics (physics.geo-ph)

[329] [arXiv:1106.4736](#) [[pdf](#), [other](#)]

### Simulation of the 2009 Harmanli fire (Bulgaria)

[Georgi Jordanov](#), [Jonathan D. Beezley](#), [Nina Dobrinkova](#), [Adam K. Kochanski](#), [Jan Mandel](#), [Bedřich Sousedík](#)

Comments: 8 pages, 2 tables, 5 figures. 8th International Conference on Large-Scale Scientific Computations, June 6-10, 2011, Sozopol, Bulgaria

Subjects: **Atmospheric and Oceanic Physics (physics.ao-ph)**

[330] [arXiv:1106.4750](#) [[pdf](#)]

### Surface optomechanics: Calculating optically excited acoustical whispering gallery modes in microspheres

[John Zehnpfennig](#), [Gaurav Bahl](#), [Matthew Tomes](#), [Tal Carmon](#)

Comments: 10 pages, 5 figures, 1 table; journal paper - Optics Express, Accepted for pub. as of 20 Jun 2011

Subjects: **Optics (physics.optics)**; Quantum Physics (quant-ph)

[331] [arXiv:1106.4757](#) [[pdf](#), [ps](#), [other](#)]

# Convection in an ideal gas at high Rayleigh numbers

A. Tilgner

Subjects: **Fluid Dynamics (physics.flu-dyn)**

[332] [arXiv:1106.4779](#) [[pdf](#), [ps](#), [other](#)]

## Magnetocardiography with a modular spin-exchange relaxation free atomic magnetometer array

R Wyllie, M Kauer, G Smetana, R Wakai, T Walker

Comments: 15 pages, 5 figures

Journal-ref: 2012 Phys. Med. Biol. 57 2619

Subjects: **Medical Physics (physics.med-ph)**; Atomic Physics (physics.atom-ph); Instrumentation and Detectors (physics.ins-det)

[333] [arXiv:1106.4793](#) [[pdf](#), [ps](#), [other](#)]

## A new parametrizable model of molecular electronic structure

Dimitri N. Laikov

Comments: Revision 1 (with Comments) resubmitted 2011.08.28 to J Chem Phys

Subjects: **Chemical Physics (physics.chem-ph)**

[334] [arXiv:1106.4851](#) [[pdf](#), [other](#)]

## Preliminary Results from Integrating Compton Photon Polarimetry in Hall A of Jefferson Lab

D. Parno, M. Friend, F. Benmokhtar, G. Franklin, R. Michaels, S. Nanda, B. Quinn, P. Souder

Comments: 6 pages, 7 figures. To appear in the Proceedings of the International Nuclear Physics Conference (INPC 2010), July 4-9 2010, Vancouver, Canada (Journal of Physics: Conference Series)

Journal-ref: J. Phys.: Conf. Ser. 312 (2011) 052018

Subjects: **Instrumentation and Detectors (physics.ins-det)**; High Energy Physics - Experiment (hep-ex); Nuclear Experiment (nucl-ex)

[335] [arXiv:1106.4879](#) [[pdf](#), [ps](#), [other](#)]

## Radiative diagnostics for sub-Larmor scale magnetic turbulence

Sarah J. Reynolds (KU), Mikhail V. Medvedev (KU)

Comments: 17 pages, 4 figures, submitted to Phys. Plasmas

Subjects: **Plasma Physics (physics.plasm-ph)**; High Energy Astrophysical Phenomena (astro-ph.HE)

[336] [arXiv:1106.4888](#) [[pdf](#), [ps](#), [other](#)]

## Metric Compatible or Noncompatible Finsler-Ricci Flows

Sergiu I. Vacaru

Comments: latex2e, v3 accepted to IJGMMP is a shorten variant following requests of Editor; readers are suggested to see former variants for details of proofs and Tables 1 and 2

Journal-ref: Int.G. Geom. Meth. Mod. Phys. 9 (2012) 1250041

Subjects: **General Physics (physics.gen-ph)**; Mathematical Physics (math-ph)

[337] [arXiv:1106.4890](#) [[pdf](#), [ps](#), [other](#)]

## Theoretical study of Acousto-optical coherence tomography using random phase jumps on US and light

Max Lesaffre (LKB - Lhomond), Salma Farahi, A.C. Boccara, François Ramaz, Michel Gross (LKB - Lhomond, L2C)

Journal-ref: Journal of the Optical Society of America A 28, 7 (2011) 1436--1444

Subjects: **Optics (physics.optics)**; Medical Physics (physics.med-ph)

[338] [arXiv:1106.4896](#) [[pdf](#), [ps](#), [other](#)]

## Inter-electronic interaction effects on the polarization of recombination photons

[A. Surzhykov](#), [A. N. Artemyev](#), [V. A. Yerokhin](#)

Journal-ref: Phys. Rev. A 83, 062710 (2011)

Subjects: **Atomic Physics** ([physics.atom-ph](#))

[339] [arXiv:1106.4899](#) [[pdf](#), [ps](#), [other](#)]

## QED theory of the nuclear magnetic shielding in hydrogen-like ions

[V. A. Yerokhin](#), [K. Pachucki](#), [Z. Harman](#), [C. H. Keitel](#)

Comments: 4 pages, 2 tables, 2 figures

Journal-ref: Phys. Rev. Lett. 107, 043004 (2011)

Subjects: **Atomic Physics** ([physics.atom-ph](#)); **Chemical Physics** ([physics.chem-ph](#))

[340] [arXiv:1106.4937](#) [[pdf](#), [ps](#), [other](#)]

## New Evidence of an Enhanced Greenhouse Effect

[Rasmus E. Benestad](#)

Comments: 10 pages with 2 figures, plus supporting material

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

[341] [arXiv:1106.4942](#) [[pdf](#)]

## A generalized Bak-Sneppen model for Earth's magnetic field reversals

[Andres R. R. Papa](#), [Marco A. do Espirito Santo](#), [Cleiton S. Barbosa](#), [David Oliva](#)

Comments: 13 pages, 8 figures

Subjects: **Geophysics** ([physics.geo-ph](#))

[342] [arXiv:1106.4961](#) [[pdf](#), [ps](#), [other](#)]

## Output-input coupling in thermally fluctuating biomolecular machines

[Michal Kurzynski](#), [Mieczyslaw Torchala](#), [Przemyslaw Chelminiak](#)

Subjects: **Biological Physics** ([physics.bio-ph](#)); **Biomolecules** ([q-bio.BM](#))

[343] [arXiv:1106.4980](#) [[pdf](#), [ps](#), [other](#)]

## Extension of the Finite Integration Technique including dynamic mesh refinement and its application to self-consistent beam dynamics simulations

[Sascha M. Schnepf](#), [Erion Gjonaj](#), [Thomas Weiland](#)

Comments: 33 pages, 14 figures, 4 tables

Journal-ref: Phys. Rev. ST Accel. Beams 15, 014401 (2012)

Subjects: **Computational Physics** ([physics.comp-ph](#)); **Accelerator Physics** ([physics.acc-ph](#))

[344] [arXiv:1106.5013](#) [[pdf](#), [other](#)]

## On the application of radio frequency voltages to ion traps via helical resonators

[J.D. Sivers](#), [L.R. Simkins](#), [S. Weidt](#), [W.K. Hensinger](#)

Subjects: **Atomic Physics** ([physics.atom-ph](#)); **Instrumentation and Detectors** ([physics.ins-det](#)); **Quantum Physics** ([quant-ph](#))

[345] [arXiv:1106.5048](#) [[pdf](#), [other](#)]

## Missing transverse energy performance of the CMS detector

[CMS Collaboration](#)

Journal-ref: JINST 6 (2011) 09001

Subjects: **Instrumentation and Detectors (physics.ins-det)**

[346] [arXiv:1106.5070](#) [[pdf](#)]

## A new family of solvable Pearson-Dirichlet random walks

[G. Le Caer](#)

Comments: 43 pages, 4 figures, Journal of Statistical Physics 2011 (On line First)

Journal-ref: Journal of Statistical Physics vol. 144 no 1 (2011) 23-45

Subjects: **Data Analysis, Statistics and Probability (physics.data-an)**; Statistical Mechanics (cond-mat.stat-mech)

[347] [arXiv:1106.5101](#) [[pdf](#)]

## Fourier transform based iterative method for x-ray differential phase-contrast computed tomography

[Wenxiang Cong](#), [Atsushi Momose](#), [Ge Wang](#)

Subjects: **Medical Physics (physics.med-ph)**; Optics (physics.optics)

[348] [arXiv:1106.5150](#) [[pdf](#), [ps](#), [other](#)]

## All scale-free networks are sparse

[Charo I. Del Genio](#), [Thilo Gross](#), [Kevin E. Bassler](#)

Comments: 4 pages, 2 figures

Journal-ref: Phys. Rev. Lett. 107, 178701 (2011)

Subjects: **Physics and Society (physics.soc-ph)**; Statistical Mechanics (cond-mat.stat-mech); Social and Information Networks (cs.SI)

[349] [arXiv:1106.5182](#) [[pdf](#)]

## Luminosity determination at the Tevatron

[Vaia Papadimitriou](#)

Comments: 5 pages, 8 figures, LHC Lumidays Workshop at CERN in January of 2011

Journal-ref: LHC Lumi Days: LHC Workshop on LHC Luminosity Calibration CERN-Proceedings-2011-001, pp. 90-95

Subjects: **Instrumentation and Detectors (physics.ins-det)**; High Energy Physics - Experiment (hep-ex)

[350] [arXiv:1106.5195](#) [[pdf](#)]

## An Optical Fibre Pulse Rate Multiplier for Ultra-low Phase-noise Signal Generation

[A. Haboucha](#), [W. Zhang](#), [T. Li](#), [M Lours](#), [A. N. Luiten](#), [Y. Le Coq](#), [G. Santarelli](#)

Comments: 3 pages, 4 figures, in press Optics Letters

Subjects: **Optics (physics.optics)**; Instrumentation and Detectors (physics.ins-det)

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