

# Physics

## Authors and titles for Jun 2011, skipping first 25

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[26] [arXiv:1106.0390](#) [[pdf](#), [ps](#), [other](#)]

### Asymmetric random matrices: What do we need them for?

[Stanislaw Drozd](#), [Jaroslaw Kwapien](#), [Andreas A. Ioannides](#)

Journal-ref: Acta Phys. Pol. B 42, 987-999 (2011)

Subjects: **Data Analysis, Statistics and Probability (physics.data-an)**; Computational Engineering, Finance, and Science (cs.CE); Statistical Finance (q-fin.ST)

[27] [arXiv:1106.0416](#) [[pdf](#), [ps](#), [other](#)]

### Bulk Viscous LRS Biachi-I Universe with variable $G$ and decaying $\Lambda$

[Anil Kumar Yadav](#), [Anirudh Pradhan](#), [Ajay Kumar Singh](#)

Comments: 11 pages, 4 figures and 1 table, Accepted for publication in Astrophysics and Space Science

Journal-ref: Astrophys. Space Sci 337: 379 - 385 (2012)

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

[28] [arXiv:1106.0419](#) [[pdf](#), [ps](#), [other](#)]

### Mean field solutions of kinetic exchange opinion models

[Soumyajyoti Biswas](#)

Comments: 9 pages, 7 eps figs

Journal-ref: Phys. Rev. E 84, 056106 (2011)

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

[29] [arXiv:1106.0431](#) [[pdf](#), [ps](#), [other](#)]

### A note on holographic superconductors with Weyl Corrections

[D. Momeni](#), [M.R. Setare](#)

Comments: Accepted for publication in Modern Physics Letters A, 11 pages, Title changed

Journal-ref: Mod. Phys. Lett. A, Vol. 26, No. 38 (2011) pp. 2889-2898

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

[30] [arXiv:1106.0438](#) [[pdf](#), [ps](#), [other](#)]

### Analytical approach to model of scientific revolutions

[Paweł Kondratiuk](#), [Grzegorz Siudem](#), [Janusz A. Hołyst](#)

Comments: 10 pages, 13 figures, REVTEX format

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

[31] [arXiv:1106.0439](#) [[pdf](#), [ps](#), [other](#)]

### Model of communities isolation at hierarchical modular networks

[Paweł Kondratiuk](#), [Janusz A. Hołyst](#)

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

[32] [arXiv:1106.0441](#) [[pdf](#)]

### A diagnostic e-module for testing conceptual understanding of Symmetry and Gauss's Law

Ashok Kumar Mittal

Comments: 11 pages

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

[33] [arXiv:1106.0448](#) [[pdf](#), [ps](#), [other](#)]

## Range of ion specific effects in the hydration of ions

[Safir Merchant](#), [D. Asthagiri](#)

Subjects: **Biological Physics** (physics.bio-ph)

[34] [arXiv:1106.0451](#) [[pdf](#)]

## Timing jitter optimization of mode-locked Yb-fiber lasers toward the attosecond regime

[Youjian Song](#), [Chur Kim](#), [Kwangyun Jung](#), [Hyoji Kim](#), [Jungwon Kim](#)

Comments: 8 pages, 7 figures

Journal-ref: Opt. Express 19, 14518-14525 (2011)

Subjects: **Optics** (physics.optics)

[35] [arXiv:1106.0493](#) [[pdf](#), [ps](#), [other](#)]

## Cross-sections of long and short baseline neutrino and antineutrino oscillations of which some change the flavor

[Josip Soln](#)

Comments: 21 pages

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

[36] [arXiv:1106.0494](#) [[pdf](#), [other](#)]

## Universal ultracold collision rates for polar molecules of two alkali-metal atoms

[Paul S. Julienne](#), [Thomas M. Hanna](#), [Zbigniew Idziaszek](#)

Comments: 12 pages, 8 figures

Subjects: **Chemical Physics** (physics.chem-ph); Quantum Gases (cond-mat.quant-gas)

[37] [arXiv:1106.0497](#) [[pdf](#), [ps](#), [other](#)]

## Thermocapillary migration and interactions of two nondeformable droplets

[Zhaohua Yin](#), [Lei Chang](#), [Wenrui Hu](#), [Peng Gao](#)

Comments: 11 pages, 16 figures. Accepted by "Applied Mathematics and Mechanics (English Edition)"

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

[38] [arXiv:1106.0520](#) [[pdf](#), [other](#)]

## Frequency-stabilization to $6 \times 10^{-16}$ via spectral-hole burning

[Michael J. Thorpe](#), [Lars Rippe](#), [Tara M. Fortier](#), [Matthew S. Kirchner](#), [Till Rosenband](#)

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

[39] [arXiv:1106.0543](#) [[pdf](#)]

## Strong terahertz radiation from relativistic laser interaction with solid dense plasmas

[Y. T. Li](#), [C. Li](#), [M. L. Zhou](#), [W. M. Wang](#), [F. Du](#), [W. J. Ding](#), [X. X. Lin](#), [F. Liu](#), [Z. M. Sheng](#), [L. M. Chen](#), [J. L. Ma](#), [X. Lu](#), [Q. L. Dong](#), [H. Wang](#), [Z. Y. Wei](#), [J. Zhang](#)

Subjects: **Optics** (physics.optics); Plasma Physics (physics.plasm-ph)

[40] [arXiv:1106.0557](#) [[pdf](#), [other](#)]

## Parallel FFT-based Poisson Solver for Isolated Three-dimensional Systems

[Reuben D. Budiardja](#), [Christian Y. Cardall](#)

Comments: 15 pages, 19 figures, accepted for publication in Computer Physics Communications

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

[41] [arXiv:1106.0560](#) [[pdf](#), [other](#)]

# Collective response of human populations to large-scale emergencies

James P. Bagrow, Dashun Wang, Albert-László Barabási

Journal-ref: PLoS ONE 6(3): e17680, 2011

Subjects: **Physics and Society (physics.soc-ph)**; Social and Information Networks (cs.SI); Data Analysis, Statistics and Probability (physics.data-an)

[42] [arXiv:1106.0573](#) [pdf]

## Probing degenerate two-level atomic media by coherent optical heterodyne

A.M. Akulshin, R.J. McLean, A.I. Sidorov, P. Hannaford

Comments: 13 pages, 8 figures

Journal-ref: J Phys B 44, 175502 (2011)

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

[43] [arXiv:1106.0583](#) [pdf]

## Spectrum standardization for laser-induced breakdown spectroscopy measurements

Zhe Wang, Lizhi Li, Logan West, Zheng Li, Weidou Ni

Comments: LIBS; Normalization; quantitative measurement; plasma property

Subjects: **Plasma Physics (physics.plasm-ph)**; Atomic Physics (physics.atom-ph)

[44] [arXiv:1106.0587](#) [pdf]

## Photosensitivity at 1550 nm and Bragg grating inscription in As<sub>2</sub>Se<sub>3</sub> microwires

Raja Ahmad, Martin Rochette

Subjects: **Optics (physics.optics)**

[45] [arXiv:1106.0594](#) [pdf]

## Biosorption of Ag(I)-Spirulina platensis for different pH

E. Gelagutashvili, E. Ginturi, N. Kuchava, N. Bagdavadze, A. Rcheulishvili

Comments: 6 pages, 0 figures

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

[46] [arXiv:1106.0596](#) [pdf, ps, other]

## Finding and testing network communities by lumped Markov chains

Carlo Piccardi

Journal-ref: PLoS ONE 6(11): e27028, 2011

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

[47] [arXiv:1106.0599](#) [pdf]

## Research on the visitor flow pattern of Expo 2010

Chao Fan, Jin-Li Guo

Comments: 12 pages

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

[48] [arXiv:1106.0603](#) [pdf, ps, other]

## Dependence of decaying homogeneous isotropic turbulence on initial conditions

P. C. Valente, J. C. Vassilicos

Comments: Submitted to Journal of Fluid Mechanics

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

[49] [arXiv:1106.0608](#) [pdf]

## Light repolarization by scattering media

Jacques Sorrentini, Myriam Zerrad, Gabriel Soriano, Claude Amra

Subjects: **Optics (physics.optics)**

[50] [arXiv:1106.0628](#) [pdf]

# Dynamical light control in longitudinally modulated segmented waveguide arrays

[Yaroslav V. Kartashov](#), [Victor A. Vysloukh](#)

Comments: 12 pages, 4 figures, to appear in Europhysics Letters

Journal-ref: Europhysics Letters 95, 24002 (2011)

Subjects: **Optics (physics.optics)**; Pattern Formation and Solitons (nlin.PS)

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