



# Physics

## Authors and titles for Jun 2011, skipping [first 25](#)

[ total of 690 entries: [1-25](#) | [26-50](#) | [51-75](#) | [76-100](#) | [101-125](#) | ... | [676-690](#) ]  
[ showing 25 entries per page: [fewer](#) | [more](#) | [all](#) ]

[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 density 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](#), [Z. 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 heterodyning

[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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