



# Physics

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

[ total of 685 entries: [1-25](#) | [26-50](#) | [51-75](#) | [76-100](#) | [101-125](#) | ... | [676-685](#) ]  
[ 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

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

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

### On mean field solutions of kinetic exchange opinion models

[Soumyajyoti Biswas](#)

Comments: 7 pages, 6 eps figs

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](#)]

### Analytic holographic superconductor with Weyl Corrections

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

Comments: 12 pages, Revised version, Title changed

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: 7 pages, 8 figures

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

[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

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

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

## Finding and testing network communities by lumped Markov chains

[Carlo Piccardi](#)

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)

[ total of 685 entries: [1-25](#) | [26-50](#) | [51-75](#) | [76-100](#) | [101-125](#) | ... | [676-685](#) ]

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