

# Physics

## Authors and titles for Jun 2011

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[1] [arXiv:1106.0022](#) [[pdf](#), [other](#)]

### Controlling the second-harmonic in a phase matched negative-index metamaterial

[Alec Rose](#), [Da Huang](#), [David R. Smith](#)

Comments: 5 pages, 7 figures

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

[2] [arXiv:1106.0046](#) [[pdf](#), [other](#)]

### Second harmonic generation in GaP photonic crystal waveguides

[Kelley Rivoire](#), [Sonia Buckley](#), [Fariba Hatami](#), [Jelena Vuckovic](#)

Comments: 3 figures

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

[3] [arXiv:1106.0067](#) [[pdf](#)]

### Wavelength tunable spectral compression in a dispersion-increasing fiber

[Hsiu-Po Chuang](#), [Chen-Bin Huang](#)

Comments: 3 pages, 4 figures. Submitted 4/03/2011

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

[4] [arXiv:1106.0100](#) [[pdf](#), [ps](#), [other](#)]

### Stopping of ions in a plasma irradiated by an intense laser field

[H. B. Nersisyan](#), [C. Deutsch](#)

Comments: Will be published in Laser & Particle Beams (December, 2011), 11 pages, 3 figures

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

[5] [arXiv:1106.0114](#) [[pdf](#), [ps](#), [other](#)]

### Fractional counting of authorship to quantify scientific research output

[Vincenzo Carbone](#)

Comments: Submitted to Europhysics Letters

Subjects: **Physics and Society (physics.soc-ph)**; Digital Libraries (cs.DL); Applications (stat.AP)

[6] [arXiv:1106.0122](#) [[pdf](#), [ps](#), [other](#)]

### Drag force on a sphere moving towards an anisotropic super-hydrophobic plane

[Evgeny S. Asmolov](#), [Aleksey V. Belyaev](#), [Olga I. Vinogradova](#)

Comments: 9 pages, 5 figures, submitted to PRE; EPAPS file included

Subjects: **Fluid Dynamics (physics.flu-dyn)**; Soft Condensed Matter (cond-mat.soft)

[7] [arXiv:1106.0129](#) [[pdf](#), [ps](#), [other](#)]

### Molecular spectroscopy for ground-state transfer of ultracold RbCs molecules

Markus Debatin, Tetsu Takekoshi, Raffael Rameshan, Lukas Reichsöllner, Francesca Ferlaino, Rudolf Grimm, Romain Vexiau, Nadia Bouloufa, Olivier Dulieu, Hanns-Christoph Naegerl

Comments: Submitted to PCCP themed issue: Physics and Chemistry of Cold Molecules

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

[8] [arXiv:1106.0158](#) [[pdf](#), [ps](#), [other](#)]

## Possible mechanism responsible for observed impurity outward flow under radio frequency heating

[S. Moradi](#), [T. Fülöp](#), [A. Mollén](#), [I. Pusztai](#)

Comments: 19 pages, 14 figures

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

[9] [arXiv:1106.0167](#) [[pdf](#), [other](#)]

## Low-Temperature Light Detectors: Neganov-Luke Amplification and Calibration

[C. Isaila](#), [C. Ciemniak](#), [F. v. Feilitzsch](#), [A. Gütlein](#), [J. Kemmer](#), [T. Lachenmaier](#), [J.-C. Lanfranchi](#), [S. Pfister](#), [W. Potzel](#), [S. Roth Sivers](#), [R. Strauss](#), [W. Westphal](#), [F. Wiest](#)

Comments: additional figure, other figures improved

Journal-ref: Physics Letters B 716 (2012) 160-164

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

[10] [arXiv:1106.0176](#) [[pdf](#)]

## Coupling between switching regulation and torque generation in bacterial flagellar motor

[Fan Bai](#), [Tohru Minamino](#), [Zhanghan Wu](#), [Keiichi Namba](#), [Jianhua Xing](#)

Comments: 23 pages, 5 figures

Subjects: **Biological Physics (physics.bio-ph)**; Subcellular Processes (q-bio.SC)

[11] [arXiv:1106.0179](#) [[pdf](#), [ps](#), [other](#)]

## Spatially Resolved Dynamic Structure Factor of Finite Systems from MD Simulations

[Thomas Raitza](#), [Heidi Reinholz](#), [Igor Morozov](#), [Gerd Röpke](#)

Subjects: **Atomic and Molecular Clusters (physics.atm-clus)**; Plasma Physics (physics.plasm-ph)

[12] [arXiv:1106.0183](#) [[pdf](#)]

## Laser emission with excitonic gain in a ZnO planar microcavity

[Thierry Guillet](#) (L2C), [Christelle Brimont](#) (L2C), [Pierre Valvin](#) (L2C), [Bernard Gil](#) (L2C), [Thierry Bretagnon](#) (L2C), [F. Medard](#) (LASMEA), [Martine Mihailovic](#) (LASMEA), [Jesús Zúñiga-Pérez](#) (CRHEA), [Mathieu Leroux](#) (CRHEA), [F. Semond](#) (CRHEA), [Sophie Bouchoule](#) (LPN)

Journal-ref: Applied Physics Letters 98, 211105 (2011) 3

Subjects: **Optics (physics.optics)**; Other Condensed Matter (cond-mat.other)

[13] [arXiv:1106.0198](#) [[pdf](#)]

## Analytic evaluation of diffuse fluence error in multi-layer scattering media with discontinuous refractive index

[Adrian C. Selden](#)

Comments: 21 pages 7 Figures Text further revised

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

[14] [arXiv:1106.0265](#) [[pdf](#), [other](#)]

## Coherent strong-field control of multiple states by a single chirped femtosecond laser pulse

[M Krug](#), [T Bayer](#), [M Wollenhaupt](#), [C Sarpe-Tudoran](#), [T Baumert](#), [S S Ivanov](#), [N V Vitanov](#)

Journal-ref: New J. Phys. 11 105051 (2009)

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

[15] [arXiv:1106.0274](#) [[pdf](#), [other](#)]

## Electron-cyclotron maser radiation from electron holes: Upward current reg

[R. A. Treumann](#), [W. Baumjohann](#), [R. Pottelette](#)

Comments: 19 pages, 9 figures, revised version to appear in Ann. Geophys. vol 29, 2011

Journal-ref: Ann. Geophys. 29, 1885-1904, 2011

Subjects: **Space Physics (physics.space-ph)**; Solar and Stellar Astrophysics (astro-ph.SR); Geophysics (physics.geo-ph)

[16] [arXiv:1106.0281](#) [[pdf](#), [ps](#), [other](#)]

## The media effect in Axelrod's model explained

[Lucas R. Peres](#), [José F. Fontanari](#)

Journal-ref: EPL, 96 (2011) 38004

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

[17] [arXiv:1106.0286](#) [[pdf](#), [other](#)]

## Popularity versus Similarity in Growing Networks

[Fragkiskos Papadopoulos](#), [Maksim Kitsak](#), [M. Angeles Serrano](#), [Marian Boguna](#), [Dmitri Krioukov](#)

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

[18] [arXiv:1106.0288](#) [[pdf](#), [other](#)]

## Emergence of Bursts and Communities in Evolving Weighted Networks

[Hang-Hyun Jo](#), [Raj Kumar Pan](#), [Kimmo Kaski](#)

Comments: 9 pages, 6 figures

Journal-ref: PLoS ONE 6(8): e22687 (2011)

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

[19] [arXiv:1106.0296](#) [[pdf](#), [ps](#), [other](#)]

## The Emergence of Leadership in Social Networks

[T. Clemson](#), [T. S. Evans](#)

Comments: 22 pages (as in Physica A but with a few extra references to supplementary material) plus 11 pages of supplementary material not in Physica A version

Journal-ref: Physica A 391 (2012) 1434-1444

Subjects: **Physics and Society (physics.soc-ph)**; Social and Information Networks (cs.SI); General Finance (q-fin.GN)

[20] [arXiv:1106.0297](#) [[pdf](#), [other](#)]

## Hypergraphs and City Street Networks

[Thomas Courtat](#), [Catherine Gloaguen](#), [Stéphane Douady](#)

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

[21] [arXiv:1106.0319](#) [[pdf](#), [other](#)]

## Instabilities in magnetized spherical Couette flow

[Christophe Gissinger](#), [Hantao Ji](#), [Jeremy Goodman](#)

Comments: 11 pages, 12 figures

Subjects: **Fluid Dynamics (physics.flu-dyn)**; Earth and Planetary Astrophysics (astro-ph.EP)

[22] [arXiv:1106.0330](#) [[pdf](#), [ps](#), [other](#)]

## The reinforcing influence of recommendations on global diversification

[An Zeng](#), [Chi Ho Yeung](#), [Mingsheng Shang](#), [Yi-Cheng Zhang](#)

Comments: 6 pages, 6 figures

Journal-ref: Europhysics Letter 97, 18005 (2012)

Subjects: **Physics and Society (physics.soc-ph)**; Data Analysis, Statistics and Probability (physics.data-an); Applications (stat.AP)

[23] [arXiv:1106.0334](#) [[src](#)]

## Ostwald ripening and the kinetics of rain initiation

[Michael Wilkinson](#)

Comments: 4 pages. This paper has been withdrawn by the author due to numerical error in the calculation of the timescale for Ostwald ripening

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

[24] [arXiv:1106.0341](#) [[pdf](#)]

## A cyclic cosmological model based on the $f(\rho)$ modified theory of gravity

Yaoming Shi

Comments: 27 pages, 2 figures, 3 tables. Several references and some comments added in version 2. Appendix A updated in version 2. Appendix A to appendix B in version 3. A new appendix A for the derivation of the energy-momentum tensor (2.2)-(2.3) in  $f(\rho)$  theory is added in version 3

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

[25] [arXiv:1106.0389](#) [[pdf](#), [ps](#), [other](#)]

## Self-injection-locked magnetron as an active ring resonator side coupled to waveguide with a delayed feedback loop

Y.P. Bliokh, Ya.E. Krasik, J. Felsteiner

Comments: 12 pages, 4 figures

Subjects: **Classical Physics** ([physics.class-ph](#))

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