



# Physics

## Authors and titles for Jun 2011, skipping [first 300](#)

[ total of 690 entries: [1-25](#) | ... | [226-250](#) | [251-275](#) | [276-300](#) | [301-325](#) | [326-350](#) | [351-375](#) | [376-400](#) | ... | [676-690](#) ]  
[ showing 25 entries per page: [fewer](#) | [more](#) | [all](#) ]

[301] [arXiv:1106.4335](#) [[pdf](#), [other](#)]

### Controlled Betatron X-Ray Radiation from Tunable Optically Injected Electrons

[S. Corde](#), [K. Ta Phuoc](#), [R. Fitour](#), [J. Faure](#), [A. Tafzi](#), [J. P. Goddet](#), [V. Malka](#), [A. Rousse](#)

Comments: 5 pages, 4 figures

Journal-ref: Phys. Rev. Lett. 107, 255003 (2011)

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

[302] [arXiv:1106.4369](#) [[pdf](#), [ps](#), [other](#)]

### A new perspective on renormalization: invariant actions, a dynamical DNA

[Michael E. Glinsky](#)

Comments: 15 pages, 6 figures

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

[303] [arXiv:1106.4401](#) [[pdf](#), [ps](#), [other](#)]

### Comparative merits of the memory function and dynamic local field correction of the classical one-component plasma

[James P. Mithen](#), [Jérôme Daligault](#), [G. Gregori](#)

Comments: 10 pages, 11 figures

Subjects: **Plasma Physics (physics.plasm-ph)**; Statistical Mechanics (cond-mat.stat-mech)

[304] [arXiv:1106.4402](#) [[pdf](#), [other](#)]

### Supersymmetry identifies molecular Stark states whose eigenproperties can be obtained analytically

[Mikhail Lemeshko](#), [Mustafa Mustafa](#), [Sabre Kais](#), [Bretislav Friedrich](#)

Comments: 12 pages, 4 figures, 1 table

Journal-ref: New J. Phys. 13, 063036 (2011)

Subjects: **Chemical Physics (physics.chem-ph)**; Mathematical Physics (math-ph); Atomic Physics (physics.atom-ph); Quantum Physics (quant-ph)

[305] [arXiv:1106.4422](#) [[pdf](#)]

### Birefringence induced polarization-independent and nearly all-angle transparency through a metallic film

Dong-Liang Gao, Lei Gao, Cheng-Wei Qiu

Comments: 9 pages

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

[306] [arXiv:1106.4442](#) [[pdf](#), [other](#)]

## Stochastic analysis of a miRNA-protein toggle switch

[E. Giampieri](#), [D. Remondini](#), [L. de Oliveira](#), [G. Castellani](#), [P. Lió](#)

Subjects: **Biological Physics (physics.bio-ph)**; Molecular Networks (q-bio.MN)

[307] [arXiv:1106.4445](#) [[pdf](#), [other](#)]

## Bistability in the Chemical Master Equation for Dual Phosphorylation Cycles

[A. Bazzani](#), [G. Castellani](#), [E. Giampieri](#), [D. Remondini](#), [L.N Cooper](#)

Subjects: **Biological Physics (physics.bio-ph)**; Chemical Physics (physics.chem-ph); Molecular Networks (q-bio.MN)

[308] [arXiv:1106.4458](#) [[pdf](#), [other](#)]

## Fast Neutron Detection with <sup>6</sup>Li-loaded Liquid Scintillator

[B. M. Fisher](#), [J. N. Abdurashitov](#), [K. J. Coakley](#), [V. N. Gavrin](#), [D. M. Gilliam](#), [J. S. Nico](#), [A. A. Shikhin](#), [A. K. Thompson](#), [D. F. Vecchia](#), [V. E. Yants](#)

Journal-ref: Nucl. Instrum. Meth. A. 646, 126 (2011)

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

[309] [arXiv:1106.4460](#) [[pdf](#), [other](#)]

## Total light absorption in graphene

[Sukosin Thongrattanasiri](#), [Frank H. L. Koppens](#), [F. Javier Garcia de Abajo](#)

Comments: 4 figures

Journal-ref: Physical Review Letters 108, 047401 (2012)

Subjects: **Optics (physics.optics)**; Mesoscale and Nanoscale Physics (cond-mat.mes-hall); Materials Science (cond-mat.mtrl-sci)

[310] [arXiv:1106.4464](#) [[pdf](#)]

## A compact analytical formalism for current transients in electrochemical systems

[Pradeep R. Nair](#), [Muhammad A. Alam](#)

Comments: 27 pages, 7 figures

Subjects: **Chemical Physics (physics.chem-ph)**; Mesoscale and Nanoscale Physics (cond-mat.mes-hall); Biological Physics (physics.bio-ph)

[311] [arXiv:1106.4476](#) [[pdf](#), [other](#)]

## Time scaling with efficient time-propagation techniques for atoms and molecules in pulsed radiation fields

[Aliou Hamido](#), [Johannes Eiglsperger](#), [Javier Madroñero](#), [Francisca Mota-Furtado](#), [Patrick O'Mahony](#), [Ana Laura Frapiccini](#), [Bernard Piraux](#)

Comments: 26 pages, 9 figures, to be published in Physical Review A

Journal-ref: Physical Review A 84, 013422 (2011)

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

[312] [arXiv:1106.4482](#) [[pdf](#), [ps](#), [other](#)]

## Polymer Maximum Drag Reduction: A Unique Transitional State

[Yves Dubief](#), [Christopher M. White](#), [Eric S. G. Shaqfeh](#), [Vincent E. Terrapon](#)

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

[313] [arXiv:1106.4484](#) [[pdf](#), [other](#)]

## Single shot phase contrast imaging using laser-produced Betatron x-ray beams

[S. Fourmaux](#), [S. Corde](#), [K. Ta Phuoc](#), [P. Lassonde](#), [G. Lebrun](#), [S. Payeur](#), [F. Martin](#), [S. Sebban](#), [V. Malka](#), [A. Rousse](#), [J. C. Kieffer](#)

Comments: 3 pages, 3 figures

Journal-ref: Opt. Lett., 36, 2426 (2011)

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

[314] [arXiv:1106.4499](#) [[pdf](#), [other](#)]

## Suppressing cascades of load in interdependent networks

[Charles D. Brummitt](#), [Raissa M. D'Souza](#), [E. A. Leicht](#)

Comments: Accepted to PNAS Plus. Author summary: 2 pages, 1 figure. Main paper: 13 pages, 7 figures. Supporting information: 7 pages, 10 figures

Journal-ref: PNAS March 20, 2012 vol. 109 no. 12 E680-E689

Subjects: **Physics and Society (physics.soc-ph)**

[315] [arXiv:1106.4518](#) [[pdf](#), [ps](#), [other](#)]

## Paraxial theory of sum-frequency generation by side-walk alignment and phase-matching in uniaxial crystals

[Shahen Hacyan](#)

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

[316] [arXiv:1106.4521](#) [[pdf](#)]

## Study of the combined effect of temperature, pH and water activity on the radial growth rate of the white-rot basidiomycete *Physisporinus vitreus* by using a hyphal growth model

[M. J. Fuhr](#), [C. Stührk](#), [M. Schubert](#), [F. W. M. R. Schwarze](#), [H. J. Herrmann](#)

Subjects: **Biological Physics (physics.bio-ph)**; Computational Physics (physics.comp-ph); Populations and Evolution (q-bio.PE)

[317] [arXiv:1106.4533](#) [[pdf](#)]

## Surface plasmon modes of a single silver nanorod: an electron energy loss study

[Olivia Nicoletti](#), [Martijn Wubs](#), [N. Asger Mortensen](#), [Wilfried Sigle](#), [Peter A. van Aken](#), [Paul A. Midgley](#)

Comments: 9 pages, 6 figures

Journal-ref: Opt. Express 19, 15371 (2011)

Subjects: **Optics (physics.optics)**; Mesoscale and Nanoscale Physics (cond-mat.mes-hall)

[318] [arXiv:1106.4617](#) [[pdf](#), [ps](#), [other](#)]

## Electron loss of fast heavy projectiles in collision with neutral targets

[V. I. Matveev](#), [S. V. Ryabchenko](#), [D. U. Matrasulov](#), [Kh. Yu. Rakhimov](#), [S. Fritzsche](#), [Th. Stöhlker](#)

Journal-ref: Phys. Rev. A 79, 042710 (8) (2009)

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

[319] [arXiv:1106.4643](#) [[pdf](#)]

## Dynamical Responses of a Valveless Fluid Loop Excited by the

# Impact of a Compression Actuator

[Chi-Chung Wang](#), [Tian-Shiang Yang](#)

Journal-ref: Journal of the Chinese Society of Mechanical Engineers 32, 1 (2011) 1-13

Subjects: **Fluid Dynamics (physics.flu-dyn)**; Chaotic Dynamics (nlin.CD)

[320] [arXiv:1106.4660](#) [[pdf](#), [ps](#), [other](#)]

## On General Solutions of Einstein Equations

[Sergiu I. Vacaru](#)

Comments: 15 pages, latex2e, submitted to arXiv.org on September 22, 2009, equivalent to arXiv: [0909.3949v1](#) [gr-qc]; an extended/modified variant published in IJTP 49 (2010) 884-913, equivalent to arXiv: [0909.3949v4](#) [gr-qc]

Journal-ref: Int.J.Geom.Meth.Mod.Phys.8:9-21,2011

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

[321] [arXiv:1106.4665](#) [[pdf](#)]

## Stone structures in the Syrian Desert

[Amelia Carolina Sparavigna](#)

Subjects: **Geophysics (physics.geo-ph)**

[322] [arXiv:1106.4669](#) [[pdf](#), [ps](#), [other](#)]

## The Quantified NTO Analysis for the Electronic Excitations of Molecular Many-Body Systems

[Jian-Hao Li](#), [Jeng-Da Chai](#), [Guang-Yu Guo](#), [Michitoshi Hayashi](#)

Comments: Main Text+Supplemental Material; G09 reference corrected

Journal-ref: Chem. Phys. Lett. 514, 362 (2011)

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

[323] [arXiv:1106.4679](#) [[pdf](#), [other](#)]

## Numerical simulations of an ocean/continent convergent system: influence of subduction geometry and mantle wedge hydration on crustal recycling

[Manuel Roda](#), [Anna Maria Marotta](#), [Maria Iole Spalla](#)

Comments: 10 figures, 3 tables

Journal-ref: Geochem. Geophys. Geosyst., Volume 11, Number 5, ISSN: 1525-2027, 2010

Subjects: **Geophysics (physics.geo-ph)**; Earth and Planetary Astrophysics (astro-ph.EP)

[324] [arXiv:1106.4680](#) [[pdf](#), [other](#)]

## The effects of the overriding plate thermal state on the slab dip in an ocean-continent subduction system

[Manuel Roda](#), [Anna Maria Marotta](#), [Maria Iole Spalla](#)

Comments: 7 figures, 1 table

Journal-ref: Comptes Rendus Geoscience, Volume 343, pp. 323-330, 2011

Subjects: **Geophysics (physics.geo-ph)**; Earth and Planetary Astrophysics (astro-ph.EP)

[325] [arXiv:1106.4683](#) [[pdf](#), [other](#)]

## Direct measurements of anisotropic energy transfers in a rotating turbulence experiment

[Cyril Lamriben](#), [Pierre-Philippe Cortet](#), [Frédéric Moisy](#)

Comments: to appear in Physical Review Letters (July 8, 2011 issue)

Journal-ref: Physical Review Letters 107 024503 (2011)

[ total of 690 entries: [1-25](#) | ... | [226-250](#) | [251-275](#) | [276-300](#) | **[301-325](#)** | [326-350](#) | [351-375](#) | [376-400](#) | ... | [676-690](#) ]  
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