

# Physics

## Authors and titles for Jun 2011, skipping **first 200**

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[201] [arXiv:1106.2573](#) [[pdf](#), [other](#)]

### **Nodal dynamics, not degree distributions, determine the structural controllability of complex networks**

[Noah J. Cowan](#), [Erick J. Chastain](#), [Daril A. Vilhena](#), [James S. Freudenberg](#), [Carl T. Bergstrom](#)

Comments: 1 Figures, 6 pages

Subjects: **Physics and Society (physics.soc-ph)**; Social and Information Networks (cs.SI); Adaptation and Self-Organizing Systems (nlin.AO)

[202] [arXiv:1106.2582](#) [[pdf](#), [other](#)]

### **Stimulated optomechanical excitation of surface acoustic waves in a microdevice**

[Gaurav Bahl](#), [John Zehnpfennig](#), [Matthew Tomes](#), [Tal Carmon](#)

Journal-ref: Nature Communications, 2:403

Subjects: **Optics (physics.optics)**; Quantum Physics (quant-ph)

[203] [arXiv:1106.2610](#) [[pdf](#), [other](#)]

### **Pathlength scaling in graphs with incomplete navigational information**

[Sang Hoon Lee](#), [Petter Holme](#)

Comments: 14 pages, 5 figures

Journal-ref: Physica A 390, 3996 (2011)

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

[204] [arXiv:1106.2617](#) [[pdf](#), [ps](#), [other](#)]

### **Distillation of hydrogen isotopes for polarized HD target**

[T. Ohta](#), [S. Bouchigny](#), [J.-P. Didelez](#), [M. Fujiwara](#), [K. Fukuda](#), [H. Kohri](#), [T. Kunimatsu](#), [C. Morisaki](#), [S. Ono](#), [G. Rouill'](#), [M. Tana Ueda](#), [M. Uraki](#), [M. Utsuro](#), [S. Y. Wang](#), [M. Yosoi](#)

Comments: 7 pages, 8 figures, 2 tables, updated 2011-12-13

Journal-ref: Nuclear Inst. and Methods in Physics Research, A 664 (2012), pp. 347-352

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

[205] [arXiv:1106.2625](#) [[pdf](#)]

### **CO2 dissociation activated through electron attachment on reduced rutile TiO2(110)-1x1 surface**

[Shijing Tan](#), [Yan Zhao](#), [Jin Zhao](#), [Zhuo Wang](#), [Chuanxu Ma](#), [Aidi Zhao](#), [Bing Wang](#), [Yi Luo](#), [Jinlong Yang](#), [Jianguo Hou](#)

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

[206] [arXiv:1106.2699](#) [[pdf](#), [ps](#), [other](#)]

### **Solid phase epitaxy amorphous silicon re-growth: some insight from empirical molecular dynamics simulation**

[Christophe Krzeminski](#) (IEMN), [Evelyne Lampin](#) (IEMN)

Journal-ref: European Journal of physics B (2011) , Vol. 81, No 3, p. 283-290

Subjects: **Computational Physics (physics.comp-ph)**; Materials Science (cond-mat.mtrl-sci)

[207] [arXiv:1106.2701](#) [[pdf](#), [ps](#), [other](#)]

## A dynamo driven by zonal jets at the upper surface: Applications to giant planets

[Céline Guervilly](#) (ISTerre, UCSC), [Philippe Cardin](#) (ISTerre), [Nathanaël Schaeffer](#) (ISTerre)

Comments: published in Icarus

Journal-ref: Icarus 218, 1 (2012) 100-114

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

[208] [arXiv:1106.2710](#) [[pdf](#), [ps](#), [other](#)]

## On the role of dynamical barriers in barrierless-reactions at low energies: $(\text{H}^+ + \text{D}) + \text{H}_2$

[Manuel Lara](#), [P. G. Jambrina](#), [A. J. C. Varandas](#), [J.-M. Launay](#), [F. J. Aoiz](#)

Comments: 15 pages. 8 figures

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

[209] [arXiv:1106.2730](#) [[pdf](#), [ps](#), [other](#)]

## Electric field compensation and sensing with a single ion in a planar trap

[Sankaranarayanan Selvarajan](#), [Nikos Daniilidis](#), [Sönke Möller](#), [Rob Clark](#), [Frank Ziesel](#), [Kilian Singer](#), [Ferdinand Schmidt-Kalchauer](#), [Hartmut Häffner](#)

Subjects: **Atomic Physics (physics.atom-ph)**; Instrumentation and Detectors (physics.ins-det); Quantum Physics (quant-ph)

[210] [arXiv:1106.2732](#) [[pdf](#), [ps](#), [other](#)]

## Testing the diffusion hypothesis as a mechanism of self-healing in Dispersed orange 11 doped in PMMA

[Shiva K. Ramini](#), [Nathan Dawson](#), [Mark G. Kuzyk](#)

Comments: 5 pages, 6 figures

Journal-ref: JOSA B, Vol. 28, Issue 10, pp. 2408-2412 (2011)

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

[211] [arXiv:1106.2740](#) [[pdf](#), [ps](#), [other](#)]

## Semianalytic theory of self-similar optical propagation and mode locking using a shape-adaptive model pulse

[Christian Jirauschek](#), [F. Ömer Ilday](#)

Journal-ref: Phys. Rev. A 83, 063809 (2011)

Subjects: **Optics (physics.optics)**; Pattern Formation and Solitons (nlin.PS); Classical Physics (physics.class-ph)

[212] [arXiv:1106.2744](#) [[pdf](#), [ps](#), [other](#)]

## Combination of many-body and density-functional theories

[Dimitri Laikov](#)

Comments: Submitted in 2005 to Phys. Rev. A, and rejected

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

[213] [arXiv:1106.2746](#) [[pdf](#), [ps](#), [other](#)]

## Anisotropic Inverse Cascade toward Zonal Flow in Magnetically Confined Plasmas

[Alexander M. Balk](#), [Peter B. Weichman](#)

Comments: 4 pages, 1 figure

Subjects: **Plasma Physics (physics.plasm-ph)**; Fluid Dynamics (physics.flu-dyn)

[214] [arXiv:1106.2751](#) [[pdf](#), [ps](#), [other](#)]

## Mathematical Principles of Dynamic Systems and the Foundations of Quantum Physics

[Eric Tesse](#)

Comments: 88 Pages (3 pages for the title, abstract, and table of contents; 5 for the introduction and overview; 65 for the body; 13 for appendices; 2

notes)

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

[215] [arXiv:1106.2771](#) [[pdf](#), [other](#)]

## Weighing of trapped ion crystals and its applications

[Kevin Sheridan](#), [Matthias Keller](#)

Comments: 24 pages, 15 figures

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

[216] [arXiv:1106.2803](#) [[pdf](#), [other](#)]

## The exit velocity of a compressed air cannon

[Z. J. Rohrbach](#), [T. R. Buresh](#), [M. J. Madsen](#)

Subjects: **Popular Physics (physics.pop-ph)**; **Classical Physics (physics.class-ph)**

[217] [arXiv:1106.2809](#) [[pdf](#), [ps](#), [other](#)]

## The chet package

[Andreas Stergiou](#)

Comments: 5 pages. A new option "macroonly" is defined. Calling chet with this option forces it to load only the essential macros, without any of the default styling. This is helpful for journal submissions

Subjects: **General Physics (physics.gen-ph)**; **High Energy Physics - Lattice (hep-lat)**; **High Energy Physics - Phenomenology (hep-ph)**; **High Energy Physics - Theory (hep-th)**

[218] [arXiv:1106.2834](#) [[pdf](#), [other](#)]

## High-Performance Silicon-Based Multiple Wavelength Source

[Jacob S. Levy](#), [Kasturi Saha](#), [Yoshitomo Okawachi](#), [Mark A. Foster](#), [Alexander L. Gaeta](#), [Michal Lipson](#)

Comments: 3 pages, 3 figures

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

[219] [arXiv:1106.2847](#) [[pdf](#), [ps](#), [other](#)]

## Molecular imaging using high-order harmonic generation and above-threshold ionization

[Elmar V. van der Zwan](#), [Manfred Lein](#)

Comments: 5 pages, 4 figures

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

[220] [arXiv:1106.2855](#) [[pdf](#), [ps](#), [other](#)]

## Strong Coupling Effects in Binary Yukawa Systems

[Gabor J. Kalman](#), [Zoltán Donkó](#), [Peter Hartmann](#), [Kenneth I. Golden](#)

Comments: submitted to PRL

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

[221] [arXiv:1106.2863](#) [[pdf](#), [ps](#), [other](#)]

## Theory of Infinitely Extended Particles

[Seyyed Mahmoud Hessaby](#)

Comments: Original author of the manuscript, Professor Seyyed Mahmoud Hessaby, formulated a fully extended and unified version of his theory in 1970 but for unclear reasons it remained as unpublished; he only reproduced it in very few numbers at Tehran University Press, where he had founded his journal

This TeX article has been typeset based on a rare remaining copy obtained from within the US market with forward by Sina Khorasani

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

[222] [arXiv:1106.2902](#) [[pdf](#), [ps](#), [other](#)]

## Computational approach to multifractal music

[Paweł Oświęcimka](#), [Jarosław Kwapien](#), [Iwona Celińska](#), [Stanisław Drożdż](#), [Rafał Rak](#)

Comments: 15 pages, 6 figures

Subjects: **Data Analysis, Statistics and Probability (physics.data-an)**; **Sound (cs.SD)**; **Computational Physics (physics.comp-ph)**; **Physics and Society (physics.soc-ph)**

[223] [arXiv:1106.2918](#) [[pdf](#)]

# Biosorption of Cr(VI)\_ and Cr(III)\_Arthrobacter species

[E.Gelagutashvili](#), [E.Ginturi](#) [D.Pataraiia](#), [M.Gurielidze](#)

Comments: 8 fages,0 figures

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

[224] [arXiv:1106.2938](#) [[pdf](#)]

## Triggering of Aftershocks of the Japan 2011 Earthquake by Earth Tides

[Arjun Datta](#), [Kamal](#)

Comments: 9 pages, 4 figures

Subjects: **Geophysics (physics.geo-ph)**; Data Analysis, Statistics and Probability (physics.data-an)

[225] [arXiv:1106.2953](#) [[pdf](#), [ps](#), [other](#)]

## Lagrange-mesh calculations and Fourier transform

[Gwendolyn Lacroix](#), [Claude Semay](#)

Journal-ref: Phys. Rev. E 84, 036705 (2011)

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

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