



# 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. Tanaka](#), [K. 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](#)]

### **CO<sub>2</sub> dissociation activated through electron attachment on reduced rutile TiO<sub>2</sub>(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: $S(\$^{1\$D}) + H\$_2\$$**

[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-Kaler](#), [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 Disperse 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 for end 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. Chet is now a .sty file. The major improvement is that it no longer creates any additional files when called. Thus, the clutter of compilation with chet is reduced

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 1977 but for unclear reasons it remained as unpublished; he only reproduced it in very few numbers at Tehran University Press, where he had founded himself. 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.Patarai](#), [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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