

# Physics

## Authors and titles for Jun 2011, skipping [first 250](#)

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[251] [arXiv:1106.3538](#) [[pdf](#), [other](#)]

### Orientation-to-alignment conversion and spin squeezing

[S. M. Rochester](#), [M. P. Ledbetter](#), [T. Zigdon](#), [A. D. Wilson-Gordon](#), [D. Budker](#)

Comments: 7 pages, 6 figures

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

[252] [arXiv:1106.3541](#) [[pdf](#)]

### Electromagnetic tunneling of obliquely-incident waves through a single-negative slab paired with a double-positive uniaxial slab

[Giuseppe Castaldi](#), [Vincenzo Galdi](#), [Andrea Alu'](#), [Nader Engheta](#)

Comments: 29 pages, 10 figures

Subjects: **Optics (physics.optics)**; Materials Science (cond-mat.mtrl-sci)

[253] [arXiv:1106.3554](#) [[pdf](#), [ps](#), [other](#)]

### Impact of Heterogeneous Human Activities on Epidemic Spreading

[Zimo Yang](#), [Ai-Xiang Cui](#), [Tao Zhou](#)

Comments: 11 pages, 4 figures

Journal-ref: Physica A 390 (2011) 4543-4548

Subjects: **Data Analysis, Statistics and Probability (physics.data-an)**; Social and Information Networks (cs.SI); Physics and Society (physics.soc-ph)

[254] [arXiv:1106.3561](#) [[pdf](#), [ps](#), [other](#)]

### The Effects of Tachyonic and Phantom Fields in the Intermediate and Logamediate Scenarios of the Anisotropic Universe

[Shuvendu Chakraborty](#), [Ujjal Debnath](#)

Comments: 20 figures

Subjects: **General Physics (physics.gen-ph)**; General Relativity and Quantum Cosmology (gr-qc)

[255] [arXiv:1106.3585](#) [[pdf](#), [other](#)]

### Proper Orthogonal Decomposition Closure Models For Turbulent Flows: A Numerical Comparison

[Zhu Wang](#), [Imran Akhtar](#), [Jeff Borggaard](#), [Traian Iliescu](#)

Comments: 28 pages, 6 figures

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

[256] [arXiv:1106.3591](#) [[pdf](#)]

### Numerical method to optimize the Polar-Azimuthal Orientation of Infrared Superconducting Nanowire Single-Photon Detectors

[Mária Csete](#), [Áron Sipos](#), [Faraz Najafi](#), [Xiaolong Hu](#), [Karl K. Berggren](#)

Comments: 15 pages, 4 figures

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

[257] [arXiv:1106.3617](#) [[pdf](#), [ps](#), [other](#)]

## The End of Cheap Uranium

[Michael Dittmar](#)

Comments: 13 pages, extended version of the contributed paper to the World Resource Forum 2011 in Davos

Subjects: **Physics and Society (physics.soc-ph)**; High Energy Physics - Phenomenology (hep-ph); Nuclear Theory (nucl-th); Physics Education (physics.ed-ph); Popular Physics (physics.pop-ph)

[258] [arXiv:1106.3630](#) [[pdf](#), [other](#)]

## The NEXT-100 experiment for neutrinoless double beta decay searches (Conceptual Design Report)

NEXT Collaboration: [V. Álvarez](#), [M. Ball](#), [M. Batallé](#), [J. Bayarri](#), [F.I.G. Borges](#), [S. Cárcel](#), [J.M. Carmona](#), [J. Castel](#), [J.M. Catala](#), [Cebrián](#), [A. Cervera-Villanueva](#), [D. Chan](#), [C.A.N. Conde](#), [T. Dafni](#), [T.H.V.T. Dias](#), [J. Díaz](#), [R. Esteve](#), [P. Evtoukhovitch](#), [L.M.P. Fernandes](#), [P. Ferrario](#), [E. Ferrer-Ribas](#), [A.L. Ferreira](#), [E.D.C. Freitas](#), [A. Gil](#), [I. Giomataris](#), [A. Goldschmidt](#), [E. Gómez](#), [H. G. J.J. Gómez-Cadenas](#), [K. González](#), [R.M. Gutiérrez](#), [J.A. Hernando-Morata](#), [D.C. Herrera](#), [V. Herrero](#), [F. Iguaz](#), [I.G. Irastorza](#), [V. Kalinnikov](#), [A. Kustov](#), [I. Liubarsky](#), [J.A.M. Lopes](#), [D. Lorca](#), [M. Losada](#), [G. Luzón](#), [J. Martín-Albo](#), [A. Méndez](#), [T. Miller](#), [A. Moisenko](#), [J.P. Mols](#), [F. Monrabal](#), [C.M.B. Monteiro](#), [J.M. Monzó](#), [F.J. Mora](#), [J. Muñoz-Vidal](#), et al. (29 additional authors not shown)

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

[259] [arXiv:1106.3639](#) [[pdf](#)]

## Around Kepler's "Dream"

[Jean-Pierre Luminet](#)

Comments: 7 pages. Conference given in march 2010 at Paris Observatory - University of Versailles St Quentin. To be published in Alliances, 2011 (in French)

Subjects: **History and Philosophy of Physics (physics.hist-ph)**; Popular Physics (physics.pop-ph)

[260] [arXiv:1106.3642](#) [[pdf](#)]

## Dust-acoustic solitary waves in dusty plasma with variable dust charge

[Gh. Forozani](#), [M. Mohammadi](#)

Comments: 11 pages, 6 figures

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

[261] [arXiv:1106.3646](#) [[pdf](#)]

## Study on radon and radium concentrations in drinking water in west region of Iran

[Ghasem. Forozani](#), [Ghasem. Soori](#)

Comments: 5 pages

Subjects: **Medical Physics (physics.med-ph)**

[262] [arXiv:1106.3676](#) [[pdf](#)]

## A Simple Model to Measure Linewidth Enhancement Factor ( $\alpha$ ) for Multi-wavelengths Semiconductor Laser

[Samir K Mondal](#)

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

[263] [arXiv:1106.3717](#) [[pdf](#), [other](#)]

## Diffusion in a strongly coupled magnetized plasma

[T. Ott](#), [M. Bonitz](#)

Journal-ref: Phys. Rev. Lett. 107, 135003 (2011)

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

[264] [arXiv:1106.3719](#) [[pdf](#), [other](#)]

## Diffusion and growth of metal clusters in nanocomposites: a Kinetic Monte Carlo study

[L. Rosenthal](#), [A. Filinov](#), [M. Bonitz](#), [V. Zaporozhchenko](#), [F. Faupel](#)

Journal-ref: Contrib. Plasma Phys. 51, 971-980 (2011)

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

[265] [arXiv:1106.3740](#) [[pdf](#), [ps](#), [other](#)]

## The Asymptotic Mandelbrot Law of Some Evolution Networks

[Li Li](#)

Comments: We had revised some typos in the first version. Sorry for that!

Subjects: **Data Analysis, Statistics and Probability (physics.data-an)**; Social and Information Networks (cs.SI); Physics and Society (physics.soc-ph)

[266] [arXiv:1106.3748](#) [[pdf](#), [other](#)]

## Revisiting special relativity: A natural algebraic alternative to Minkowski spacetime

[James M. Chappell Nicolangelo Iannella](#), [Azhar Iqbal](#), [Derek Abbott](#)

Comments: 29 pages, 2 figures

Subjects: **Classical Physics (physics.class-ph)**; Mathematical Physics (math-ph)

[267] [arXiv:1106.3783](#) [[pdf](#), [ps](#), [other](#)]

## An Exploration of Symmetries in the Friedmann Equation

[M. Ibison](#)

Comments: To appear in Proceedings of "Quantum Retrocausation: Theory and Experiment

Journal-ref: AIP Conf. Proc., Vol. 1408, pp. 75-95, 2011

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

[268] [arXiv:1106.3787](#) [[pdf](#), [ps](#), [other](#)]

## Calculating ellipse overlap areas

[Gary B. Hughes](#), [Mohcine Chraïbi](#)

Comments: 85 pages, 10 figures, code in c

Subjects: **Computational Physics (physics.comp-ph)**; Computational Geometry (cs.CG)

[269] [arXiv:1106.3790](#) [[pdf](#), [other](#)]

## Interactions of point vortices in the Zabusky-McWilliams model with a background flow

[Colm Connaughton](#), [John R. Ockendon](#)

Comments: 12 pages, 3 figures

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

[270] [arXiv:1106.3795](#) [[pdf](#)]

## Ferromagnetic state and phase transitions

[Yuri Mnyukh](#)

Comments: Based on the material published in Fundamentals of Solid-State Phase Transitions, Ferromagnetism and Ferroelectricity, 2nd Ed.,

DirectScientific Press (2010)

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

[271] [arXiv:1106.3835](#) [[pdf](#)]

## Basics of averaging of the Maxwell equations

[A. Chipouline](#), [C. Simovski](#), [S. Tretyakov](#)

Comments: 15 pages, no figures

Subjects: **Optics (physics.optics)**; Classical Physics (physics.class-ph)

[272] [arXiv:1106.3841](#) [[pdf](#), [ps](#), [other](#)]

## Giant strain-sensitivity of acoustic energy dissipation in solids containing and saturated cracks with wavy interfaces

[V. Yu. Zaitsev](#), [L. A. Matveev](#)

Journal-ref: J. Acoust. Soc. Am. 131, 1-12 (2012)

Subjects: **Geophysics (physics.geo-ph)**; Mesoscale and Nanoscale Physics (cond-mat.mes-hall)

[273] [arXiv:1106.3853](#) [[pdf](#), [ps](#), [other](#)]

# Spectra of helium clusters with up to six atoms using soft core potentials

[M. Gattobigio](#), [A. Kievsky](#), [M. Viviani](#)

Journal-ref: Phys. Rev. A 84, 052503 (2011)

Subjects: **Atomic and Molecular Clusters** ([physics.atm-clus](#)); Nuclear Theory ([nucl-th](#))

[274] [arXiv:1106.3857](#) [[pdf](#), [ps](#), [other](#)]

## A note on the magnetic spatial forcing of a ferrofluid layer

[Thomas Friedrich](#), [Adrian Lange](#), [Ingo Rehberg](#), [Reinhard Richter](#)

Journal-ref: Magnetohydrodynamics 47, No. 2, 167-174, 2011

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

[275] [arXiv:1106.3862](#) [[pdf](#), [other](#)]

## On Kinds of Indiscernibility in Logic and Metaphysics

[Adam Caulton](#), [Jeremy Butterfield](#)

Comments: 55 pages, 21 figures. Forthcoming, after an Appendectomy, in the British Journal for the Philosophy of Science

Subjects: **History and Philosophy of Physics** ([physics.hist-ph](#)); Artificial Intelligence ([cs.AI](#)); Quantum Physics ([quant-ph](#))

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