



# 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. Catalá, S. 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. Gómez, 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 Alliages, 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 dry and saturated cracks with wavy interfaces

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

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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