

# Physics

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[276] [arXiv:1106.3881](#) [[pdf](#)]

### A fully woven touchpad sensor based on soft capacitor fibers

[Jian Feng Gu](#), [Stephan Gorgutsa](#), [Maksim Skorobogatiy](#)

Subjects: **Instrumentation and Detectors** ([physics.ins-det](#)); Materials Science ([cond-mat.mtrl-sci](#))

[277] [arXiv:1106.3895](#) [[pdf](#), [ps](#), [other](#)]

### Determination of Carrier-Envelope Phase of Relativistic Few-Cycle Laser Pulses by Thomson Backscattering Spectroscopy

[M. Wen](#), [L.L. Jin](#), [H.Y. Wang](#), [Z. Wang](#), [Y.R. Lu](#), [J.E. Chen](#), [X.Q. Yan](#)

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

[278] [arXiv:1106.3901](#) [[pdf](#), [ps](#), [other](#)]

### High-quality proton bunch from laser interaction with a gas-filled cone target

[H.Y. Wang](#), [F.L. Zheng](#), [Y.R. Lu](#), [Z.Y. Guo](#), [X.T. He](#), [J.E. Chen](#), [X. Q. Yan](#)

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

[279] [arXiv:1106.3902](#) [[pdf](#), [ps](#), [other](#)]

### Signal and noise simulation of CUORE bolometric detectors

[M. Carrettoni](#), [M. Vignati](#)

Comments: Fixed a typo. Two small changes in the text at page 7

Journal-ref: JINST 6 (2011) P08007

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

[280] [arXiv:1106.3925](#) [[pdf](#), [ps](#), [other](#)]

### Quasi-Neutral theory of epidemic outbreaks

[Oscar A. Pinto](#), [Miguel A. Muñoz](#)

Comments: 13 pages, 6 figures Accepted for publication in PLoS ONE the text have been modified in order to improve the figure's resolution

Journal-ref: PLoS ONE 6(7): e21946. (2011)

Subjects: **Biological Physics** ([physics.bio-ph](#)); Statistical Mechanics ([cond-mat.stat-mech](#)); Quantitative Methods ([q-bio.QM](#))

[281] [arXiv:1106.3928](#) [[pdf](#)]

### Georges Lemaitre and Stiglers Law of Eponymy

[David L. Block](#)

Comments: Revised title and text with a Note Added in Proof, containing emphasis of reflections by Lemaitre himself in 1950. To appear in "Georges Lemaitre: Life, Science and Legacy. Proceedings of the 80th Anniversary Conference held by the Faraday Institute, St Edmund's College, Cambridge"

Subjects: **History and Philosophy of Physics** ([physics.hist-ph](#)); Cosmology and Extragalactic Astrophysics ([astro-ph.CO](#))

[282] [arXiv:1106.3935](#) [[pdf](#), [ps](#), [other](#)]

### Perfect lensing with phase conjugating surfaces: Towards practical realization

[Stanislav Maslovski](#), [Sergei Tretyakov](#)

Comments: 16 pages, 5 figures  
Subjects: **Optics (physics.optics)**; Materials Science (cond-mat.mtrl-sci)

[283] [arXiv:1106.3945](#) [[pdf](#), [other](#)]

## Moving walls accelerate mixing

[Jean-Luc Thiffeault](#), [Emmanuelle Guillard](#), [Olivier Dauchot](#)

Comments: 17 pages, 13 figures. PDFLaTeX with RevTeX 4-1 style

Journal-ref: Physical Review E 84, 036113 (2011)

Subjects: **Fluid Dynamics (physics.flu-dyn)**; Soft Condensed Matter (cond-mat.soft); Chaotic Dynamics (nlin.CD)

[284] [arXiv:1106.3982](#) [[pdf](#), [ps](#), [other](#)]

## Quantum Computing via The Bethe Ansatz

[Yong Zhang](#)

Comments: 6 pages. Comments welcome

Journal-ref: Quantum Inf Process (2012) 11:585-590

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

[285] [arXiv:1106.3992](#) [[pdf](#), [other](#)]

## Analytic approach for calculating transmitted electromagnetic fields through a slot array in deep sub-wavelength regime

[L. David Wellems](#), [Danhong Huang](#)

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

[286] [arXiv:1106.3996](#) [[pdf](#), [ps](#), [other](#)]

## Does the speed of light depend upon the vacuum ?

[M. Urban](#), [F. Couchot](#), [X. Sarazin](#)

Comments: 25 pages

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

[287] [arXiv:1106.4073](#) [[pdf](#)]

## Electrostatic Structures in Space Plasmas: Stability of Two-dimensional Magnetic Bernstein-Greene-Kruskal Modes

[C. S. Ng](#), [S. J. Soundararajan](#), [E. Yasin](#)

Comments: Submitted to AIP Journal Proceedings for "Tenth Annual International Astrophysics Conference"

Subjects: **Space Physics (physics.space-ph)**; Solar and Stellar Astrophysics (astro-ph.SR); Computational Physics (physics.comp-ph); Plasma Physics (physics.plasm-ph)

[288] [arXiv:1106.4089](#) [[pdf](#), [ps](#), [other](#)]

## Detection limits in plasmonic whispering gallery mode biosensors

[Jon D. Swaim](#), [Joachim Knittel](#), [Warwick P. Bowen](#)

Subjects: **Optics (physics.optics)**; Biological Physics (physics.bio-ph)

[289] [arXiv:1106.4123](#) [[pdf](#), [ps](#), [other](#)]

## Two-center minima in harmonic spectra from aligned polar molecules

[Adam Etches](#), [Mette B. Gaarde](#), [Lars Bojer Madsen](#)

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

[290] [arXiv:1106.4127](#) [[pdf](#)]

## Natural networks

[Tuomo Hartonen](#), [Arto Annala](#)

Comments: 10 pages, 1 figure

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

[291] [arXiv:1106.4128](#) [[pdf](#), [ps](#), [other](#)]

## Percolation in Interdependent and Interconnected Networks: Abrupt Change from Second to First Order Transition

Yanqing Hu, Baruch Ksherim, Reuven Cohen, Shlomo Havlin

Comments: 4pages,6figures

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

[292] [arXiv:1106.4131](#) [[pdf](#), [ps](#), [other](#)]

## Repeaters in relativistic communications

[Juan Carlos Garcia-Escartin](#), [Pedro Chamorro-Posada](#)

Subjects: **Classical Physics (physics.class-ph)**; Information Theory (cs.IT)

[293] [arXiv:1106.4152](#) [[pdf](#)]

## Comparison of hard x-ray production from various targets in air using a short pulse kHz laser with photon production from a high power multifilament laser beam from the same targets in air

[K.W.D. Ledingham](#), [S. S. Abuazoum](#), [T. McCanny](#), [J.J. Melone](#), [K. Spohr](#), [U. Schramm](#), [S.D. Kraft](#), [A. Wagner](#), [A. Jochmann](#)

Comments: 10 pages 7 figures

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

[294] [arXiv:1106.4155](#) [[pdf](#), [ps](#), [other](#)]

## Differential energy measurement between He- and Li-like uranium intra-shell transitions

[Martino Trassinelli](#) (INSP), [A. Kumar](#), [Heinrich Beyer](#) (GSI), [Paul Indelicato](#) (LKB - Jussieu), [R. Märtin](#) (GSI), [Regina Reuschl](#) (INSP, GSI), [Yuri S. Kozhedub](#), [Carsten Brandau](#) (GSI), [H. Brauning](#) (GSI), [S. Geyer](#) (GSI), [Alexander Gumberidze](#) (GSI), [Sebastian Hess](#) (GSI), [Pawel Jagodzinski](#), [Christophor Kozhuharov](#) (GSI), [Dieter Liesen](#) (GSI), [Uwe Spillmann](#) (GSI), [Sergiy Trotsenko](#) (GSI), [Günter Weber](#) (GSI), [Danyal Winters](#) (GSI), [Thomas Stöhlker](#) (GSI)

Journal-ref: Physica Scripta T144 (2011) 014003

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

[295] [arXiv:1106.4157](#) [[pdf](#), [ps](#), [other](#)]

## Low-dimensional model of turbulent Rayleigh-Benard convection in a Cartesian cell with square domain

[Jorge Bailon-Cuba](#), [Joerg Schumacher](#)

Comments: 23 pages, 18 Postscript figures, Figures 6,7,8,9,17,18 in reduced quality

Journal-ref: Phys. Fluids 23 (2011) 077101

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

[296] [arXiv:1106.4204](#) [[pdf](#), [ps](#), [other](#)]

## Metamaterial-inspired multichannel thin-film sensor

[Withawat Withayachumnankul](#), [Kata Jaruwongrungssee](#), [Christophe Fumeaux](#), [Derek Abbott](#)

Comments: 7 pages, 4 figures

Subjects: **Instrumentation and Detectors (physics.ins-det)**

[297] [arXiv:1106.4215](#) [[pdf](#), [ps](#), [other](#)]

## Heterogenous mean-field analysis of a generalized voter-like model on networks

[Paolo Moretti](#), [Suyu Liu](#), [Andrea Baronchelli](#), [Romualdo Pastor-Satorras](#)

Journal-ref: Eur. Phys. J. B (2012) 85: 88

Subjects: **Physics and Society (physics.soc-ph)**; Statistical Mechanics (cond-mat.stat-mech); Social and Information Networks (cs.SI)

[298] [arXiv:1106.4226](#) [[pdf](#)]

## Measurement of airborne <sup>131</sup>I, <sup>134</sup>Cs, and <sup>137</sup>Cs nuclides due to the Fukushima reactors accident in air particulate in Milan (Italy)

[Massimiliano Clemenza](#), [Ettore Fiorini](#), [Ezio Previtali](#), [Elena Sala](#)

Comments: 9 pages, 12 figures

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

[299] [arXiv:1106.4299](#) [[pdf](#), [ps](#), [other](#)]

# Enhancement of absorption bistability by trapping light planar metamaterials

Vladimir R. Tuz, Valery S. Butylkin, Sergey L. Prosvirnin

Comments: 11 pages, 4 figures

Journal-ref: Journal of optics (J. Opt.) 14 (2012) 045102 (7pp)

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

[300] [arXiv:1106.4330](#) [[pdf](#)]

## Supernovae, Neutrinos, and the Chirality of the Amino Acids

R.N. Boyd, T. Kajino, T. Onaka

Journal-ref: International Journal of Molecular Sciences 12 (2011) 3432-3444

Subjects: **Biological Physics (physics.bio-ph)**

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