



# Physics

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[126] [arXiv:1106.1541](#) [[pdf](#), [other](#)]

### Momentum transport and torque scaling in Taylor-Couette flow from an analogy with turbulent convection

[B. Dubrulle](#), [F. Hersant](#)

Comments: revTex, 6 Figures

Journal-ref: Eur. Phys. J. B vol 26 p 379-386 (2002)

Subjects: **Fluid Dynamics (physics.flu-dyn)**; Other Condensed Matter (cond-mat.other)

[127] [arXiv:1106.1568](#) [[pdf](#), [ps](#), [other](#)]

### When effective theories predict: the inevitability of Mercury's anomalous perihelion precession

[James D. Wells](#)

Comments: Lectures to Philosophy of Physics students at the University of Michigan, 32 pages

Subjects: **History and Philosophy of Physics (physics.hist-ph)**; General Relativity and Quantum Cosmology (gr-qc); High Energy Physics - Phenomenology (hep-ph); High Energy Physics - Theory (hep-th)

[128] [arXiv:1106.1571](#) [[pdf](#)]

### Orbital Angular Momentum in Noncollinear Second Harmonic Generation by off-axis vortex beams

[Fabio Antonio Bovino](#), [Matteo Braccini](#), [Maurizio Giardino](#), [Concita Sibilìa](#)

Comments: 9 pages, 7 figures

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

[129] [arXiv:1106.1575](#) [[pdf](#), [ps](#), [other](#)]

### Phase disorder on laser beam combining in a Talbot resonator

[Yejin Chung](#), [Alejandro Aceves](#)

Comments: 8 pages, 7 figures

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

[130] [arXiv:1106.1577](#) [[pdf](#), [ps](#), [other](#)]

### Market efficiency, anticipation and the formation of bubbles-crashes

[Serge Galam](#)

Comments: 22 pages, 9 figures

[131] [arXiv:1106.1586](#) [[pdf](#), [ps](#), [other](#)]

## Rotational spectrum of asymmetric top molecules in combined static and laser fields

[J. J. Omiste](#), [R. González-Férez](#), [P. Schmelcher](#)

Comments: 17 pages, 11 figures

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

[132] [arXiv:1106.1600](#) [[pdf](#), [ps](#), [other](#)]

## A Link Between Black Holes and the Golden Ratio

[J. A. Nieto](#)

Comments: 10 pages, Latex

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

[133] [arXiv:1106.1603](#) [[pdf](#)]

## Intense Internal and External Fluorescence as Solar Cells Approach the Shockley-Queisser Efficiency Limit

[Owen D. Miller](#), [Eli Yablonovitch](#), [Sarah R. Kurtz](#)

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

[134] [arXiv:1106.1613](#) [[pdf](#), [other](#)]

## NEST: A Comprehensive Model for Scintillation Yield in Liquid Xenon

[M. Szydagis](#) (1), [N. Barry](#) (1), [K. Kazkaz](#) (2), [J. Mock](#) (1), [D. Stolp](#) (1), [M. Sweany](#) (1 and 2), [M. Tripathi](#) (1), [S. Uvarov](#) (1), [N. Walsh](#) (1), [M. Woods](#) (1) ((1) University of California at Davis, (2) Lawrence Livermore National Laboratory)

Comments: 24 pages, 9 figures, 3 tables

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

[135] [arXiv:1106.1667](#) [[pdf](#)]

## Comment on "Particle acceleration by stimulated emission of radiation near a solid-state active medium"

[Sergei Nagaitsev](#)

Subjects: **Accelerator Physics (physics.acc-ph)**

[136] [arXiv:1106.1681](#) [[pdf](#), [ps](#), [other](#)]

## Inhibited spontaneous emission of quantum dots observed in a 3D photonic band gap

[M.D. Leistikow](#), [A.P. Mosk](#), [S.R. Huisman](#), [A. Lagendijk](#), [W. L. Vos](#)

Comments: 5 figures

Journal-ref: Phys. Rev. Lett. 107, 193903:1-5 (2011)

Subjects: **Optics (physics.optics)**; Mesoscale and Nanoscale Physics (cond-mat.mes-hall)

[137] [arXiv:1106.1698](#) [[pdf](#)]

## The Geometry of Putting on a Planar Surface

[Robert D. Grober](#)

Comments: 39 pages, 28 figures

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

[138] [arXiv:1106.1717](#) [[pdf](#), [other](#)]

## Kinematic dynamo simulations of von Kármán flows: application to the VKS experiment

[A. Pinter](#), [B. Dubrulle](#), [F. Daviaud](#), [J. Leorat](#)

Subjects: **Fluid Dynamics** ([physics.flu-dyn](#)); Chaotic Dynamics ([nlin.CD](#)); Geophysics ([physics.geo-ph](#))

[139] [arXiv:1106.1721](#) [[pdf](#), [ps](#), [other](#)]

## Atomic-resolution structures of prion AGAAAAGA amyloid fibrils

[Jiapu Zhang](#)

Comments: book Chapter of Amyloids: Composition, Functions and Pathology, NOVA Publishers, 2011

Subjects: **Biological Physics** ([physics.bio-ph](#)); Optimization and Control ([math.OC](#))

[140] [arXiv:1106.1722](#) [[pdf](#), [ps](#), [other](#)]

## Scaling laws prediction from a solvable model of turbulent thermal convection

[B. Dubrulle](#)

Comments: RevTex4, 4 pages

Journal-ref: Europhys. Letters, vol 51, 513-519 (2000)

Subjects: **Fluid Dynamics** ([physics.flu-dyn](#)); Other Condensed Matter ([cond-mat.other](#)); Chaotic Dynamics ([nlin.CD](#))

[141] [arXiv:1106.1763](#) [[pdf](#), [ps](#), [other](#)]

## Thermodynamics of phantom energy in the presence of a Reissner-Nordstrom black hole

[Mubasher Jamil](#), [Ibrar Hussain](#), [M. Umar Farooq](#)

Comments: 5 pages, Accepted for publication in Astrophysics & Space Science

Journal-ref: Astrophys.Space Sci.335:339-343,2011

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

[142] [arXiv:1106.1767](#) [[pdf](#), [ps](#), [other](#)]

## The effective conductivity of arrays of squares: large random unit cells and extreme contrast ratios

[Johan Helsing](#)

Comments: 28 pages, 11 figures, submitted to J. Comput. Phys

Subjects: **Computational Physics** ([physics.comp-ph](#)); Disordered Systems and Neural Networks ([cond-mat.dis-nn](#)); Materials Science ([cond-mat.mtrl-sci](#)); Numerical Analysis ([math.NA](#))

[143] [arXiv:1106.1771](#) [[pdf](#), [ps](#), [other](#)]

## Conical emission from laser filaments and higher-order Kerr effect in air

[Pierre Béjot](#), [Jérôme Kasparian](#)

Comments: 11 pages, 3 figures, 1 Movie

Journal-ref: Optics Letters 36, 4812 (2011)

Subjects: **Optics** ([physics.optics](#))

[144] [arXiv:1106.1776](#) [[pdf](#), [ps](#), [other](#)]

## Circular polarization control for the European XFEL in the soft

# X-ray regime

Gianluca Geloni, Vitali Kocharyan, Evgeni Saldin

Subjects: **Accelerator Physics (physics.acc-ph)**

[145] [arXiv:1106.1779](#) [pdf]

## A sustained oscillation in a toy-model of the coupled atmosphere-ocean system

Oliver Bothe

Comments: 36 pages, 5 figures, 1 table

Subjects: **Atmospheric and Oceanic Physics (physics.ao-ph)**

[146] [arXiv:1106.1780](#) [pdf, other]

## GELATIO: a general framework for modular digital analysis of high-purity Ge detector signals

M. Agostini, L. Pandola, P. Zavarise, O. Volynets

Comments: 12 pages, 6 figures, submitted to JINST

Journal-ref: JINST 6:P08013,2011

Subjects: **Data Analysis, Statistics and Probability (physics.data-an)**; High Energy Physics - Experiment (hep-ex); Nuclear Experiment (nucl-ex)

[147] [arXiv:1106.1792](#) [pdf, ps, other]

## How to be causal: time, spacetime, and spectra

Paul Kinsler

Comments: Comments welcome

Journal-ref: Eur. J. Phys. 32, 1687 (2011)

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

[148] [arXiv:1106.1812](#) [pdf, ps, other]

## A xenon gas purity monitor for EXO

EXO Collaboration: A. Dobi, C. Hall, S. Herrin, A. Odian, C.Y. Prescott, P.C. Rowson, N. Ackerman, B. Aharmin, M. Auger, P.S. Barbeau, K. Barry, C. Benitez-Medina, M. Breidenbach, S. Cook, I. Counts, T. Daniels, R. DeVoe, M.J. Dolinski, K. Donato, W. Fairbank Jr., J. Farine, G. Giroux, R. Gornea, K. Graham, G. Gratta, M. Green, C. Hagemann, K. Hall, D. Hallman, C. Hargrove, A. Karelin, L.J. Kaufman, A. Kuchenkov, K. Kumar, J. Lacey, D.S. Leonard, F. LePort, D. Mackay, R. MacLellan, B. Mong, M. Montero Diez, A.R. Muller, R. Neilson, E. Niner, K. O'Sullivan, A. Piepke, A. Pocar, K. Pushkin, E. Rollin, D. Sinclair, S. Slutsky, V. Stekhanov, K. Twelker, N. Voskanian, J.-L. Vuilleumier, U. Wichoski, J. Wodin, L. Yang, Y.-R. Yen

Comments: 41 pages, 26 figures

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

[149] [arXiv:1106.1823](#) [pdf, ps, other]

## Investigating viscous damping using a webcam

Sohaib Shamim, Wasif Zia, Muhammad Sabieh Anwar

Comments: 13 pages, 5 figures

Journal-ref: American Journal of Physics, 78, 433-436 (2010)

Subjects: **Physics Education (physics.ed-ph)**; Fluid Dynamics (physics.flu-dyn); Popular Physics (physics.pop-ph)

[150] [arXiv:1106.1829](#) [pdf]

## Wave approach for the resonances of rectangular and triangular membranes

[Joseph Dickey](#)

Comments: 13 pages, 8 figures

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

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