



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

Subjects: **Physics and Society (physics.soc-ph)**; Social and Information Networks (cs.SI); General Finance (q-fin.GN)

[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

Journal-ref: Published in [Amyloids: Composition, Functions and Pathology, Editors Irene P. Halcheck and Nancy R. Vernon, NOVA Science Publishers, Hauppauge, N.Y., March 1st 2012, ISBN 978-1-62100-538-4, hardcover], Chapter 10, pp.177-186

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

[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: v4 - add "discrete" picture (not in EJP)

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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