



Physics

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[226] [arXiv:1106.2969](#) [[pdf](#)]

IR Bismuth active centers in optical fibers: Combined excitation-emission spectroscopy

[S. V. Firstov](#), [V. F. Khopin](#), [I. A. Bufetov](#), [E. G. Firstova](#), [A. N. Guryanov](#), [E. M. Dianov](#)

Comments: 12pages, 7 figures, 5 tables

Journal-ref: Firstov S. V., Khopin V. F., Bufetov I. A., Firstova E. G., Guryanov A. N., Dianov E. M. Optics Express, 19, 19551 (2011)

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

[227] [arXiv:1106.2974](#) [[pdf](#), [ps](#), [other](#)]

Fractional Action Cosmology with Power Law Weight Function

[Mubasher Jamil](#), [Muneer A. Rashid](#), [D. Momeni](#), [O. Razina](#), [Kuralay Esmakhanova](#)

Comments: 12 pages, 9 figures, Contributed talk published in the proceedings of "3rd Italian-Pakistani Workshop on Relativistic Astrophysics"

Journal-ref: J. Phys.: Conf. Ser. 354, 012008 (2012)

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

[228] [arXiv:1106.3002](#) [[pdf](#), [ps](#), [other](#)]

Low-threshold directional plasmon lasing assisted by spatially coherent surface plasmon polaritons

[Yang Cao](#), [Zeyong Wei](#), [Wei Li](#), [Anan Fang](#), [Hongqiang Li](#), [Xunya Jiang](#), [Hong Chen](#), [C.T. Chan](#)

Comments: 13 pages, 6 figures

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

[229] [arXiv:1106.3015](#) [[pdf](#)]

Reactive processing of formaldehyde and acetaldehyde in aqueous aerosol mimics: Surface tension depression and secondary organic products

[Zhi Li](#), [Allison N. Schwier](#), [Neha Sareen](#), [V. Faye McNeill](#)

Comments: Published in Atmospheric Chemistry and Physics 22 November 2011

Journal-ref: Atmos. Chem. Phys., 11, 11617-11629, 2011

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

[230] [arXiv:1106.3051](#) [[pdf](#), [other](#)]

Unconventional modes in lasers with spatially varying gain and loss

[Li Ge](#), [Y. D. Chong](#), [S. Rotter](#), [H. E. Türeci](#), [A. D. Stone](#)

Comments: 8 pages, 7 figures

Journal-ref: Phys. Rev. A 84, 023820 (2011)

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

[231] [arXiv:1106.3053](#) [pdf]

Wavelet analysis of corneal endothelial electrical potential difference reveals cyclic operation of the secretory mechanism

[Veronica Ines Cacace](#), [Nicolas Montalbetti](#), [Carlos Kusnier](#), [Martin Pedro Gomez](#), [Jorge Fischbarg](#)

Comments: 17 pages, 4 figures, 1 table

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

[232] [arXiv:1106.3091](#) [pdf]

An Investigation on the Basic Conceptual Foundations of Quantum Mechanics by Using the Clifford Algebra

[Elio Conte](#)

Comments: forthcoming papers; [this http URL](#)

Journal-ref: Advanced Studies in Theoretical Physics Vol.5, n.11, 485-544, 2011

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

[233] [arXiv:1106.3094](#) [pdf, other]

Simple rules govern finite-size effects in scale-free networks

[Sara Cuenda](#), [Juan A. Crespo](#)

Comments: Published in Europhysics Letters

Journal-ref: EPL 95 (2011) 38002

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

[234] [arXiv:1106.3107](#) [pdf, ps, other]

An Iterative, Dynamically Stabilized(IDS) Method of Data Unfolding

[Bogdan Malaescu](#)

Comments: 5 pages, 2 figures, presented at PHYSTAT 2011, CERN, Geneva, Switzerland, January 2011, to be published in a CERN Yellow Report

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

[235] [arXiv:1106.3162](#) [pdf]

The OPFOS microscopy family: High-resolution optical-sectioning of biomedical specimens

[Jan A.N. Buytaert](#), [Emilie Descamps](#), [Dominique Adriaens](#), [Joris J.J. Dirckx](#)

Comments: 19 pages, 10 figures, to be published in Anatomical Research International (Hindawi)

Subjects: **Instrumentation and Detectors (physics.ins-det)**; Medical Physics (physics.med-ph); Tissues and Organs (q-bio.TO)

[236] [arXiv:1106.3218](#) [pdf, ps, other]

Nuclear effects in atomic transitions

[Adriana Pálffy](#)

Comments: review article, 53 pages, 14 figures

Journal-ref: Contemporary Phys. 51, 471 (2010)

Subjects: **Atomic Physics (physics.atom-ph)**; Nuclear Theory (nucl-th)

[237] [arXiv:1106.3246](#) [pdf, ps, other]

Observation of depth-induced properties in wave turbulence on the surface of a fluid

[Eric Falcon](#) (MSC), [Claude Laroche](#) (MSC)

Comments: accepted to EPL

Journal-ref: Europhysics Letters (EPL) 95 (2011) 34003

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

[238] [arXiv:1106.3315](#) [pdf]

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[239] [arXiv:1106.3323](#) [[pdf](#), [ps](#), [other](#)]

An infinite-period phase transition versus nucleation in a stochastic model of collective oscillations

[Vladimir R. V. Assis](#), [Mauro Copelli](#), [Ronald Dickman](#)

Comments: 15 pages, 8 figures

Journal-ref: J. Stat. Mech. (2011) P09023

Subjects: **Biological Physics (physics.bio-ph)**; Statistical Mechanics (cond-mat.stat-mech); Chaotic Dynamics (nlin.CD); Data Analysis, Statistics and Probability (physics.data-an)

[240] [arXiv:1106.3334](#) [[pdf](#), [ps](#), [other](#)]

Aperiodicity in one-way Markov cycles and repeat times of large earthquakes in faults

[Alejandro Tejedor](#), [Javier Gómez](#), [Amalio F. Pacheco](#)

Subjects: **Geophysics (physics.geo-ph)**; Data Analysis, Statistics and Probability (physics.data-an)

[241] [arXiv:1106.3364](#) [[pdf](#), [other](#)]

Atomic parity violation in 0-to-0 two-photon transitions

[D. R. Dounas-Frazer](#), [K. Tsigutkin](#), [D. English](#), [D. Budker](#)

Comments: 8 pages, 2 figures, submitted to PRA

Journal-ref: Phys. Rev. A 84, 023404 (2011)

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

[242] [arXiv:1106.3411](#) [[pdf](#), [ps](#), [other](#)]

On radial geodesic forcing of zonal modes

[Alexander Kendl](#)

Comments: Submitted to Phys. Plasmas (2011)

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

[243] [arXiv:1106.3447](#) [[pdf](#)]

Optical Excitation and Decay Dynamics of Ytterbium Atoms Embedded in a Solid Neon Matrix

[C.-Y. Xu](#), [S.-M. Hu](#), [J. Singh](#), [K. Bailey](#), [Z.-T. Lu](#), [P. Mueller](#), [T. P. O'Connor](#), [U. Welp](#)

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

[244] [arXiv:1106.3452](#) [[pdf](#), [other](#)]

Analysis and Optimisation of Pulse Dynamics for Magnetic Stimulation

[Stefan M. Goetz](#), [Nam C. Truong](#), [Manuel G. Gerhofer](#), [Thomas Weyh](#), [Hans-Georg Herzog](#)

Comments: 23 pages (including references and appendix), 7 figures

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

[245] [arXiv:1106.3455](#) [[pdf](#), [ps](#), [other](#)]

Applications of a constrained mechanics methodology in economics

[Jitka Janová](#)

Journal-ref: Eur. J. Phys. 32 (2011) 1443-1463

Subjects: **Physics Education (physics.ed-ph)**; Classical Physics (physics.class-ph); Physics and Society (physics.soc-ph); General Finance (q-fin.GN)

[246] [arXiv:1106.3461](#) [[pdf](#), [other](#)]

Recurrent host mobility in spatial epidemics: beyond reaction-diffusion

[Vitaly Belik](#), [Theo Geisel](#), [Dirk Brockmann](#)

Journal-ref: European Physical Journal B, 84, 579--587 (2011)

Subjects: **Physics and Society (physics.soc-ph)**; Statistical Mechanics (cond-mat.stat-mech); Populations and Evolution (q-bio.PE)

[247] [arXiv:1106.3495](#) [[pdf](#), [other](#)]

Electrometry near a dielectric surface using Rydberg electromagnetically induced transparency

[R. P. Abel](#), [C. Carr](#), [U. Krohn](#), [C. S. Adams](#)

Comments: 5 pages, 6 figures

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

[248] [arXiv:1106.3501](#) [[pdf](#), [ps](#), [other](#)]

Carrier-envelope phase sensitive inversion in two-level systems

[Christian Jirauschek](#), [Lingze Duan](#), [Oliver D. Mücke](#), [Franz X. Kärtner](#), [Martin Wegener](#), [Uwe Morgner](#)

Journal-ref: J. Opt. Soc. Am. B 22, 2065-2075 (2005)

Subjects: **Atomic Physics (physics.atom-ph)**; Mesoscale and Nanoscale Physics (cond-mat.mes-hall); Optics (physics.optics); Quantum Physics (quant-ph)

[249] [arXiv:1106.3524](#) [[pdf](#), [ps](#), [other](#)]

Modeling the Mechanisms of the Photomechanical Response of a Nematic Liquid Crystal Elastomer

[Nathan J. Dawson](#), [Mark G. Kuzyk](#), [Jeremy Neal](#), [Paul Luchette](#), [Peter Palffy-Muhoray](#)

Comments: 7 Figures, 1 Table

Journal-ref: J. Opt. Soc. Am. B., Vol. 28, Num. 9, 2134-2141 (2011)

Subjects: **Optics (physics.optics)**; Soft Condensed Matter (cond-mat.soft)

[250] [arXiv:1106.3534](#) [[pdf](#)]

Driving conditions dependence of magneto-electroluminescence in tri-(8-hydroxyquinoline)-aluminum based organic light emitting diodes

[Qiming Peng](#), [Jixiang Sun](#), [Xianjie Li](#), [Mingliang Li](#), [Feng Li](#)

Comments: 14 pages, 3 figures

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

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