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[76] arXiv:1106.0934 [pdf, ps, other]

Phase transition in the Sznajd model with independence

K. Sznajd-Weron, M. Tabiszewski, A. M. Timpanaro

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

[77] arXiv:1106.0939 [pdf]

Ultrafast Internal Conversion in Ethylene I. The Excited State Lifetime

H. Tao, T. K. Allison, T. W. Wright, A. M. Stooke, C. Khurmi, J. van Tilborg, Y. Liu, R. W. Falcone, A. Belkacem, T. J. Martinez

Journal-ref: J. Chem. Phys, volume 134, page 244306 (2011)

Subjects: Chemical Physics (physics.chem-ph); Atomic Physics (physics.atom-ph)

[78] arXiv:1106.0959 [pdf, ps, other]

Doppler-free two-photon resonances for atom detection and sum frequency stabilization

A. M. Akulshin, B. V. Hall, V. Ivannikov, A. A. Orel, A. I. Sidorov

Comments: 12 pages, 6 figures

Subjects: Atomic Physics (physics.atom-ph)

[79] arXiv:1106.0973 [pdf]

Quantum Physics and Nanotechnology

Vladimir K. Nevolin

Comments: 51 pages, 7 figures

Subjects: General Physics (physics.gen-ph)

[80] arXiv:1106.0977 [pdf]

Self-Stimulated Undulator Klystron

E.G. Bessonov, A.L. Osipov (Lebedev Phys. Inst. RAS, Moscow, Russia), A.A. Mikhailichenko (Cornell University, CLASSE, Ithaca, NY, U.S.A)

Comments: 5 pages, 2 figures

Subjects: Accelerator Physics (physics.acc-ph)

[81] arXiv:1106.0982 [pdf]

Role of Azimuthal Energy Flows in the Geometric Spin Hall Effect of Light

Aleksandr Bekshaev

Comments: 6 pages, 2 figures. This note was prepared in response to the paper A. Aiello et al, Phys. Rev. Lett. 2009, 103, 100401, but was not published because I could not properly substantiate generalization of the energy redistribution rules for the case of spin flow (Eqs. (14)). However, I feel the interest to the idea and now I present it for wide audience

Subjects: Optics (physics.optics)

[82] arXiv:1106.0985 [pdf, other]

A simple eddy viscosity formulation for turbulent boundary layers near smooth walls

Rafik Absi (EBI)

Journal-ref: C. R. Mecanique 337, 4 (2009) 158-165

Subjects: Fluid Dynamics (physics.flu-dyn)

[83] arXiv:1106.0986 [pdf]

Toward Improving Prediction of Sediment Transport over Wave-Induced Ripples

Rafik Absi (EBI), Hitoshi Tanaka

Journal-ref: Tohoku Journal of Natural Disaster Science 47 (2011) 213-218

Subjects: Geophysics (physics.geo-ph); Fluid Dynamics (physics.flu-dyn)

[84] arXiv:1106.1025 [pdf, ps, other]

Gauss-Bonnet holographic superconductors with magnetic field

M. R. Setare, D. Momeni

Comments: 9 pages, 4 figures. Accepted for publication by EPL

Journal-ref: EPL, 96 (2011) 60006

Subjects: General Physics (physics.gen-ph)

[85] arXiv:1106.1043 [pdf]

A Non-linearized PLS Model Based on Multivariate Dominant Factor for Laserinduced Breakdown Spectroscopy Measurements

Zhe Wang, Jie Feng, Lizhi Li, Weidou Ni, Zheng Li

Comments: LIBS, partial least square, quantitative measurement; laser diagnostics

Subjects: Optics (physics.optics)

[86] arXiv:1106.1046 [pdf, ps, other]

Local and nonlocal pressure Hessian effects in real and synthetic fluid turbulence

Laurent Chevillard, Emmanuel Leveque, Francesco Taddia, Charles Meneveau, Huidan Yu, Carlos Rosales

Comments: 10 pages, 4 figures, minor changes, final version, published in Phys. Fluids

Journal-ref: Phys. Fluids 23, 095108 (2011)

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

[87] arXiv:1106.1050 [pdf, ps, other]

A reliable cw Lyman-\$α\$ laser source for future cooling of antihydrogen

D. Kolbe, A. Beczkowiak, T. Diehl, A. Koglbauer, M. Sattler, M. Stappel, R. Steinborn, J. Walz

Comments: 8 pages, 3 figures, Proceedings of LEAP 2011

Subjects: Optics (physics.optics); Atomic Physics (physics.atom-ph)

[88] arXiv:1106.1055 [pdf, ps, other]

Comparing large lecture mechanics curricula using the Force Concept Inventory: A five thousand student study

Marcos D. Caballero, Matthew A. Kohlmyer, Edwin F. Greco, Eric R. Murray, Keith R. Bujak, M. Jackson

Marr, Richard Catrambone, Michael F. Schatz

Comments: 21 pages, 4 figures, submitted to Am. J. Phys

Subjects: Physics Education (physics.ed-ph)

[89] arXiv:1106.1065 [pdf, ps, other]

WKB - Not So Bad After All

Chung-Sang Ng

Comments: This was an unpublished paper I wrote when I was a grad student at Auburn University

Subjects: Plasma Physics (physics.plasm-ph)

[90] arXiv:1106.1074 [pdf]

Fractal dimension evolution and spatial replacement dynamics of urban growth

Yanguang Chen

Comments: 17 pages, 5 figures, 2 tables

Subjects: Physics and Society (physics.soc-ph)

[91] arXiv:1106.1076 [pdf]

Calculation technique for simulation of wave and fracture dynamics in a reinforced sheet

M. Ayzenberg-Stepanenko, Z. Yanovitsky, G. Osharovich

Comments: 16 pages, 7 figures

Subjects: Computational Physics (physics.comp-ph); Mesoscale and Nanoscale Physics (cond-mat.mes-hall); Materials

Science (cond-mat.mtrl-sci); Mathematical Physics (math-ph)

[92] arXiv:1106.1081 [pdf]

Can large (M >= 8) EQs be triggered by tidal (M1) waves? An analysis of the global seismicity that occurred during 1901 - 2011

C. Thanassoulas, V. Klentos, G. Verveniotis, N. Zymaris

Comments: 8 pages, 13 figures, this http URL

Subjects: Geophysics (physics.geo-ph)

[93] arXiv:1106.1096 [pdf, other]

A new design for the CERN-Fréjus neutrino Super Beam

A. Longhin

Comments: 11 pages, 18 figures, 2 tables

Subjects: Accelerator Physics (physics.acc-ph); High Energy Physics - Experiment (hep-ex)

[94] arXiv:1106.1124 [pdf, ps, other]

In search of continuity: thoughts of an epistemic empiricist

Ian T. Durham

Comments: 10 pages, awarded Fourth Prize in the 2011 FQXi Essay contest, "Is Reality Digital or Analog?"

Subjects: History and Philosophy of Physics (physics.hist-ph); Quantum Physics (quant-ph)

[95] arXiv:1106.1129 [pdf, ps, other]

A model of driven and decaying magnetic turbulence in a cylinder

Koen Kemel, Axel Brandenburg, Hantao Ji

Comments: 7 pages, 4 figures, submitted to Phys. Rev. E

Journal-ref: Phys. Rev. E 84, 056407 (2011)

Subjects: Plasma Physics (physics.plasm-ph); Computational Physics (physics.comp-ph)

[96] arXiv:1106.1135 [pdf]

Frictional damping in radiative electrodynamics and its scaling to macroscopic systems

D. Das

Comments: 11 pages including 5 references, No figures

Subjects: Classical Physics (physics.class-ph)

[97] arXiv:1106.1155 [pdf, ps, other]

Koopmans' theorem in statistical Hartree-Fock theory

Jean-Christophe Pain

Comments: submitted to J. Phys. B: At. Mol. Opt. Phys

Subjects: Atomic Physics (physics.atom-ph); Quantum Physics (quant-ph)

[98] arXiv:1106.1163 [pdf]

Plane waves in a moving medium and the Lorentz covariance of Minkowski's photon and electromagnetic momentum-energy four-vectors

Changbiao Wang

Comments: (1) Sec. V is revised, with some comments added on the conventional understanding of the EM momentum of static crossed electric and magnetic fields (see Example 3 on p. 7); (2) Eq. (60) is added to show a correct EM momentum; 3 Two new references (37 and 38) are added; 4 "EM-field cell" is used, which becomes "photon" when Einstein light-quantum hypothesis is imposed. 19 pages, 1 figure

Subjects: General Physics (physics.gen-ph)

[99] arXiv:1106.1195 [pdf]

The Curious Case of Lemaitre's Equation No. 24

Sidney van den Bergh Comments: JRASC, in press

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

[100] arXiv:1106.1217 [pdf, ps, other]

A high dynamic range data acquisition system for a solid-state electron Electric Dipole Moment experiment

Young Jin Kim, Brandon Kunkler, Chen-Yu Liu, Gerard Visser

Comments: 9 pages, 13 figures, 1 table

Subjects: Instrumentation and Detectors (physics.ins-det); Nuclear Experiment (nucl-ex)

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