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[total of 690 entries: 1-25 | 26-50 | **51-75** | 76-100 | 101-125 | 126-150 | ... | 676-690] [showing 25 entries per page: fewer | more | all]

[51] arXiv:1106.0656 [pdf]

Teaching Fluid Mechanics for Undergraduate Students in Applied Industrial Biology: from Theory to Atypical Experiments

Rafik Absi (EBI), Caroline Nalpace (EBI), Florence Dufour (EBI), Denis Huet (EBI), Rachid Bennacer (ENS Cachan), Tahar Absi (LPE)

Journal-ref: International Journal of Engineering Education 27, 3 (2011) 550-558

Subjects: Physics Education (physics.ed-ph)

[52] arXiv:1106.0674 [pdf, ps, other]

Stochastic theory of protein synthesis and polysome: ribosome profile on a single mRNA transcript

Ajeet K. Sharma, Debashish Chowdhury

Comments: Minor revision

Journal-ref: Journal of Theoretical Biology, vol.289, 36-46 (2011)

Subjects: Biological Physics (physics.bio-ph); Statistical Mechanics (cond-mat.stat-mech); Subcellular Processes (q-bio.SC)

[53] arXiv:1106.0694 [pdf, ps, other]

Nuclear recoil scintillation and ionisation yields in liquid xenon from ZEPLIN-III data

M. Horn, V. A. Belov, D. Yu. Akimov, H. M. Araújo, E. J. Barnes, A. A. Burenkov, V. Chepel, A. Currie, B. Edwards, C. Ghag, A. Hollingsworth, G. E. Kalmus, A. S. Kobyakin, A. G. Kovalenko, V. N. Lebedenko, A. Lindote, M. I. Lopes, R. Lüscher, P. Majewski, A. StJ. Murphy, F. Neves, S. M. Paling, J. Pinto da Cunha, R. Preece, J. J. Quenby, L. Reichhart, P. R. Scovell, C. Silva, V. N. Solovov, N. J. T. Smith, P. F. Smith, V. N. Stekhanov, T. J. Sumper, C. Thorne, L. de Viveiros, R. J. Walker

Stekhanov, T. J. Sumner, C. Thorne, L. de Viveiros, R. J. Walker

Comments: 7 pages, 7 figures

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

[54] arXiv:1106.0702 [pdf, ps, other]

Less is Different: Emergence and Reduction Reconciled

Jeremy Butterfield Comments: 75 pp

Journal-ref: Foundations of Physics: Volume 41, Issue 6 (2011), Page 1065-1135 (70 pages)

Subjects: History and Philosophy of Physics (physics.hist-ph); Statistical Mechanics (cond-mat.stat-mech); Quantum Physics

(quant-ph)

Emergence, Reduction and Supervenience: a Varied Landscape

Jeremy Butterfield Comments: 43 pp

Journal-ref: Foundations of Physics: Volume 41, Issue 6 (2011), Page 920-960 (40 pages)

Subjects: History and Philosophy of Physics (physics.hist-ph); Statistical Mechanics (cond-mat.stat-mech); Quantum Physics

(quant-ph)

[56] arXiv:1106.0705 [pdf, other]

Selective tuning of high-Q silicon photonic crystal nanocavities via laser-assisted local oxidation

Charlton J. Chen, Jiangjun Zheng, Tingyi Gu, James F. McMillan, Mingbin Yu, Guo-Qiang Lo, Dim-Lee

Kwong, Chee Wei Wong Comments: 12 pages, 7 figures Subjects: Optics (physics.optics)

[57] arXiv:1106.0734 [pdf, ps, other]

Generating functions for canonical systems of fermions

Jean-Christophe Pain, Franck Gilleron, Quentin Porcherot

Comments: submitted to Physical Review E

Subjects: Atomic Physics (physics.atom-ph); Statistical Mechanics (cond-mat.stat-mech); Quantum Physics (quant-ph)

[58] arXiv:1106.0738 [pdf, other]

A new test of local Lorentz invariance using \$^{21}\$Ne-Rb-K comagnetometer

M. Smiciklas, J. M. Brown, L.W. Cheuk, M. V. Romalis

Comments: 5 pages

Subjects: Atomic Physics (physics.atom-ph); High Energy Physics - Phenomenology (hep-ph)

[59] arXiv:1106.0798 [pdf, ps, other]

Magnetoelastic nonlinear metamaterials

Mikhail Lapine, Ilya V. Shadrivov, David A. Powell, Yuri S. Kivshar

Comments: 4 pages, 5 figures

Journal-ref: Nature Materials 11, 30-33 (2012)

Subjects: Optics (physics.optics)

[60] arXiv:1106.0803 [src]

Deregulating 'the rural'; threatening land management regime. Experiences of space in the Tuscan countryside

Stefano Orsini

Comments: Further results will be published Subjects: Physics and Society (physics.soc-ph)

[61] arXiv:1106.0818 [pdf]

The cradle of pyramids in satellite images

Amelia Carolina Sparavigna

Comments: Satellite imagery, image processing, Google Maps, archaeology

Subjects: Geophysics (physics.geo-ph)

[62] arXiv:1106.0819 [pdf, other]

Snell's law for particles moving on piecewise homogeneous two

dimensional surface with linear boundaries

Pratik Mandrekar, Toby Joseph

Comments: 5 pages, 4 figures

Subjects: Classical Physics (physics.class-ph); Biological Physics (physics.bio-ph)

[63] arXiv:1106.0824 [pdf]

On the Four Types of Weight Functions for Spatial Contiguity Matrix

Yanguang Chen

Comments: 8 pages, 5 figures, 2 tables

Subjects: Data Analysis, Statistics and Probability (physics.data-an)

[64] arXiv:1106.0827 [pdf, ps, other]

Enhanced rise of rogue waves in slant wave groups

V. P. Ruban

Comments: revtex4, 4 pages, 8 figures, minor corrections, additional numerical results included

Journal-ref: JETP Letters 94(3), 177-181 (2011)

Subjects: Fluid Dynamics (physics.flu-dyn); Atmospheric and Oceanic Physics (physics.ao-ph)

[65] arXiv:1106.0842 [pdf, other]

Three-Axis Measurement and Cancellation of Background Magnetic Fields to less than 50 uG in a Cold Atom Experiment

Aaron Smith, Brian E. Anderson, Souma Chaudhury, Poul S. Jessen

Comments: 7 pages, 8 Figures

Journal-ref: J. Phys. B: At. Mol. Opt. Phys. 44 (2011) 205002

Subjects: Atomic Physics (physics.atom-ph)

[66] arXiv:1106.0847 [pdf]

Is dark matter an illusion created by the gravitational polarization of the quantum vacuum?

Dragan Slavkov Hajdukovic

Comments: We have added an Appendix in order to show that the gravitational polarization of the quantum vacuum allows the understanding of the universality of the central surface density of galaxy dark matter haloes, the cored dark matter haloes in dwarf spheroidal galaxies, the non-existence of dark disks in spiral galaxies and distribution of dark matter after collision of clusters of galaxies

Journal-ref: Astrophys.Space Sci.334:215-218,2011

Subjects: General Physics (physics.gen-ph); Cosmology and Extragalactic Astrophysics (astro-ph.CO)

[67] arXiv:1106.0860 [pdf, ps, other]

The Spread of Viruses and Bugs in Self Organizing Networks

Swarbhanu Chatterjee

Comments: 6 pages

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

[68] arXiv:1106.0872 [pdf]

Model of Opinion Spreading in Social Networks

Igor Kanovsky, Omer Yaary

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

[69] arXiv:1106.0876 [pdf]

An ordinary differential equation for velocity distribution and dip-phenomenon in open channel flows

Rafik Absi (EBI)

Journal-ref: Journal of Hydraulic Research, IAHR, Taylor and Francis 49, 1 (2011) 82-89

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

[70] arXiv:1106.0886 [pdf, ps, other]

Exploring Interatomic Coulombic Decay by Free Electron Lasers

Philipp V. Demekhin, Spas D. Stoychev, Alexander I. Kuleff, Lorenz S. Cederbaum

Comments: 5 figures, Supplemental material file

Journal-ref: Physical Review Letters 107, 273002 (2011)

Subjects: Atomic and Molecular Clusters (physics.atm-clus)

[71] arXiv:1106.0887 [pdf]

Urban chaos and replacement dynamics in nature and society

Yanguang Chen

Comments: 17 pages, 5 figures, 3 tables

Subjects: Physics and Society (physics.soc-ph); Adaptation and Self-Organizing Systems (nlin.AO); Populations and Evolution

(q-bio.PE)

[72] arXiv:1106.0900 [pdf, ps, other]

Einstein's `Zürich Notebook' and his Journey to General Relativity

Norbert Straumann

Comments: 19 pages, invited talk at the conference "Cosmology since Einstein", Hong Kong, 30 May -- 1 June, 2011

Journal-ref: Annalen Phys.523:488-500,2011

Subjects: History and Philosophy of Physics (physics.hist-ph); General Relativity and Quantum Cosmology (gr-qc)

[73] arXiv:1106.0903 [pdf, ps, other]

Response: Comment on "Energy Transfer and Dual Cascade in Kinetic Magnetized Plasma Turbulence"

G. G. Plunk, T. Tatsuno

Subjects: Plasma Physics (physics.plasm-ph)

[74] arXiv:1106.0909 [pdf]

Overview of the Tevatron Collider Complex: Goals, Operations and Performance

Stephen Holmes, Ronald S. Moore, Vladimir Shiltsev

Comments: Includes modifications suggested by reviewers

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

[75] arXiv:1106.0910 [pdf]

On the space and time evolution of regular or irregular human heart or brain signals

Caglar Tuncay

Comments: 6 pages, 3 figures

Subjects: General Physics (physics.gen-ph)

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