Physics

Authors and titles for Jun 2011, skipping first 175

[total of 689 entries: 1-25 | ... | 101-125 | 126-150 | 151-175 | **176-200** | 201-225 | 226-250 | 251-275 | ... | 676-689]
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[176] **arXiv:1106.2239 [pdf, ps, other]**

Relativistic quantum theory of high harmonic generation on atoms/ions by strong laser fields

H.K. Avetissian, A.G. Markossian, G.F. Mkrtchian

Comments: 8 pages, 8 figures, Conference: Photons, Atoms, and Qubits 2007 (PAQ07, paper 47)

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

[177] **arXiv:1106.2244 [pdf, ps, other]**

Quasimonoenergetic and low emittance ion bunch generation from ultrathin targets by counterpropagating laser pulses of ultrarelativistic intensities

H.K. Avetissian, A.K. Avetissian, G.F. Mkrtchian, Kh.V. Sedrakian

Comments: 4 pages, 8 figures, Conference IPAC 2011

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

[178] **arXiv:1106.2247 [pdf, ps, other]**

Slipping and Rolling on an Inclined Plane

Cina Aghamohammadi, Amir Aghamohammadi

Comments: 12 pages, 3 figures

Journal-ref: Eur. J. Phys. 32 (2011) 1049-1057

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

[179] **arXiv:1106.2249 [pdf, ps, other]**

Harmonics generation and intense terahertz radiation from polar molecules at multiphoton resonant excitation in laser fields

H.K. Avetissian, B.R. Avchyan, G.F. Mkrtchian

Comments: 8 pages, 6 figures

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

[180] **arXiv:1106.2255 [pdf, ps, other]**

Conditions for the feasibility of multiple rolling for mechanical systems with multiple contact points

Stefano Pasquero

Comments: 15 pages, 3 figures

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

[181] **arXiv:1106.2257 [pdf, ps]**

Secure Quantum Communication and Superluminal Signalling on the Bell Channel

R.O. Cornwall

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

[182] **arXiv:1106.2258 [pdf, ps]**

Is the Consequence of Superluminal Signalling to Physics Absolute Motion through an Ether?

R.O. Cornwall

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

[183] **arXiv:1106.2277 [pdf, ps, other]**

Experimental determination of heat capacities and their correlation with quantum predictions

Waqas Mahmood, Muhammad Sabieh Anwar, Wasif Zia

Comments: 16 pages, 8 figures. Partially accepted in American Journal of Physics (2011)

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

[184] **arXiv:1106.2282 [pdf, other]**

Fluid flow control with transformation media

Yaroslav A. Urzhumov, David R. Smith

Comments: 4 pages, 7 figures

Journal-ref: PRL 107, 074501 (2011)

Subjects: **Fluid Dynamics (physics.flu-dyn)**; Optics (physics.optics)

[185] **arXiv:1106.2332 [pdf, ps, other]**

On the Status of the Geodesic Principle in Newtonian and Relativistic Physics

James Owen Weatherall

Comments: 16 pages

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

[186] **arXiv:1106.2334 [pdf, ps, other]**

On (Some) Explanations in Physics

James Owen Weatherall

Comments: 32 pages. Forthcoming in Philosophy of Science

Subjects: **History and Philosophy of Physics (physics.hist-ph)**; Classical Physics (physics.class-ph)

[187] **arXiv:1106.2336 [pdf, ps, other]**

A Brief Remark on Energy Conditions and the Geroch-Jang Theorem

James Owen Weatherall

Comments: 8 pages

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

[188] **arXiv:1106.2391 [pdf, other]**

Monte Carlo study of a 3D Compton imaging device with GEANT4

M. Lenti, M. Veltri

Journal-ref: Nucl.Instrum.Meth.A654:560-568,2011

Subjects: **Medical Physics (physics.med-ph)**; Instrumentation and Detectors (physics.ins-det)

[189] **arXiv:1106.2406 [pdf, ps, other]**

Power Law Entropy Corrected New-Agegraphic Dark Energy in Hořava-Lifshitz Cosmology

K. Karami, A. Sheykhi, Mubasher Jamil, R. Myrzakulov, S. Ghaffari, A. Abdolmaleki

Comments: 13 pages, 2 figures, accepted for publication in 'Canadian J. Phys.'

Journal-ref: Canadian Journal of Physics, 2012, 90(5): 473-479

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

[190] **arXiv:1106.2418 [pdf, other]**

All-optical ion generation for ion trap loading

Kevin Sheridan, Wolfgang Lange, Matthias Keller

Comments: 7 pages, 9 figures

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

[191] **arXiv:1106.2431 [pdf, other]**

Laser Pulse Heating of Spherical Metal Particles

Michael I. Tribelsky, Andrey E. Miroshnichenko, Yuri S. Kivshar, Boris S. Luk'yanchuk, Alexei R. Khokhlov

Comments: 7 pages, 6 figures

Journal-ref: Phys. Rev. X 1, 021024 (2011)

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

[192] **arXiv:1106.2443 [pdf, ps, other]**

Big Science and the Large Hadron Collider

Gian Francesco Giudice

Comments: 17 pages; final version to appear in Physics in Perspective

Subjects: **History and Philosophy of Physics (physics.hist-ph)**; High Energy Physics - Experiment (hep-ex); High Energy Physics - Phenomenology (hep-ph); High Energy Physics - Theory (hep-th)

[193] **arXiv:1106.2444 [src]**

A Novel Device for Generating Terahertz Radiation Pulses

Sung Nae Cho

Comments: This work contains an error in equation (33). For the corrected version of this work, please refer to (arXiv:1106.5566), which has been published in Physics of Plasmas [Phys. Plasmas 19, 033506 (2012); this http URL]

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

[194] **arXiv:1106.2463 [pdf, ps, other]**

Magic-wavelength optical traps for Rydberg atoms

S. Zhang, F. Robicheaux, M. Saffman

Comments: 8 figures, appendix added, title modified

Journal-ref: Phys. Rev. A 84, 043408 (2011)

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

[195] **arXiv:1106.2485 [pdf]**

Optical Force on Two-level Atoms by Few-cycle Pulsed Gaussian Laser field beyond the Rotating Wave Approximation

Parvendra Kumar, Amarendra K. Sarma

Journal-ref: Physical Rev. A Vol. 84, p.043402(2011)

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

[196] **arXiv:1106.2487 [pdf, other]**

Spectral and temporal characterization of a fused-quartz microresonator optical frequency comb

Scott B. Papp, Scott A. Diddams

Journal-ref: Phys. Rev. A 84, 053833 (2011)

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

[197] **arXiv:1106.2501 [pdf, ps, other]**

Doping effects in AlGaAs lasers with separate confinement heterostructures (SCH). Modeling optical and electrical characteristics with Sentaurus TCAD

Z. Koziol, S. I. Matyukhin

Subjects: **Computational Physics (physics.comp-ph)**; Optics (physics.optics)

[198] **arXiv:1106.2513 [pdf]**

L'Epistolario di Gerberto, papa astronomo

Costantino Sigismondi

Comments: 3 pages, 1 figure. Proceedings of 42nd UAI congress, Padova - Italy, 24-27 September 2009, to appear in Astronomia UAI

Subjects: **History and Philosophy of Physics (physics.hist-ph)**

[199] **arXiv:1106.2517 [pdf]**

Incontri celesti, vita del padre Clavio in cinque atti

Costantino Sigismondi

Comments: 4 pages, 11 figures. Proceedings of the 42nd UAI congress, Padova - Italy, 24-27 September 2009, to appear in Astronomia UAI

Subjects: **History and Philosophy of Physics (physics.hist-ph)**

[200] **arXiv:1106.2541 [pdf, ps, other]**

Is Reality Digital or Analog?

Jarmo Mäkelä

Comments: This essay, written in a form of a fictitious dialogue with Isaac Newton, received the First Prize in the Foundational Questions Institute (FQXi) essay contest "Is Reality Digital or Analog?"

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

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