



# Physics

## Authors and titles for Jun 2011, skipping **first 175**

[ total of 690 entries: [1-25](#) | ... | [101-125](#) | [126-150](#) | [151-175](#) | [176-200](#) | [201-225](#) | [226-250](#) | [251-275](#) | ... | [676-690](#) ]  
[ showing 25 entries per page: [fewer](#) | [more](#) | [all](#) ]

[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)**

[ total of 690 entries: [1-25](#) | ... | [101-125](#) | [126-150](#) | [151-175](#) | [176-200](#) | [201-225](#) | [226-250](#) | [251-275](#) | ... | [676-690](#) ]

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