



Physics

Authors and titles for Jun 2011, skipping **first 100**

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[101] [arXiv:1106.1221](#) [[pdf](#)]

Size-, shape-, and composition-dependent polarizabilities of SimCn (m, n = 1 - 4) clusters

[You-Zhao Lan](#)

Comments: 17 pages, 10 figures, 1 table, and 62 references

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

[102] [arXiv:1106.1225](#) [[pdf](#), [other](#)]

Anomalous scaling and generic structure function in turbulence

[Berengere Dubrulle](#)

Journal-ref: J. Phys II France vol 6 p 1825-1840 (1996)

Subjects: **Fluid Dynamics (physics.flu-dyn)**; Other Condensed Matter (cond-mat.other); Chaotic Dynamics (nlin.CD)

[103] [arXiv:1106.1227](#) [[pdf](#)]

Horizontally oriented plates in clouds

[François-Marie Bréon](#), [Berengere Dubrulle](#)

Journal-ref: J. Atmo. Sci vol 61 p 2888-2898 (2004)

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

[104] [arXiv:1106.1238](#) [[pdf](#), [ps](#), [other](#)]

The T2K Experiment

[T2K Collaboration](#) [K. Abe](#) (19), [N. Abgrall](#) (46), [H. Aihara](#) (27), [Y. Ajima](#) (21), [J.B. Albert](#) (57), [D. Allan](#) (47), [P.-A. Amaudruz](#) (1), [C. Andreopoulos](#) (47), [B. Andrieu](#) (11), [M.D. Anerella](#) (55), [C. Angelsen](#) (47), [S. Aoki](#) (22), [O. Araoka](#) (21), [J. Argyriades](#) (46), [A. Ariga](#) (44), [T. Ariga](#) (44), [S. Assylbekov](#) (56), [J.P.A.M. de André](#) (10), [D. Autiero](#) (9), [A. Badertscher](#) (45), [O. Ballester](#) (43), [M. Barbi](#) (4), [G.J. Barker](#) (53), [P. Baron](#) (8), [G. Barr](#) (66), [L. Bartoszek](#) (61), [M. Batkiewicz](#) (36), [F. Bay](#) (44), [S. Bentham](#) (49), [V. Berardi](#) (65), [B.E. Berger](#) (56), [H. Berns](#) (64), [I. Bertram](#) (49), [M. Besnier](#) (10), [J. Beucher](#) (8), [D. Beznosko](#) (59), [S. Bhadra](#) (7), [P. Birney](#) (6,1), [D. Bishop](#) (1), [E. Blackmore](#) (1), [F.d.M. Blaszczyk](#) (8), [J. Blocki](#) (36), [A. Blondel](#) (46), [A. Bodek](#) (63), [C. Bojchko](#) (6), [J. Bouchez](#) (8, deceased), et al. (477 additional authors not shown)

Comments: 33 pages, 32 figures, Submitted and accepted by NIM A. Editor: Prof. Chang Kee Jung, Department of Physics and Astronomy, SUNY Stony Brook, chang.jung@sunysb.edu, 631-632-8108 Submit Edited to remove line numbers

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

[105] [arXiv:1106.1260](#) [[pdf](#)]

Do we live in the universe successively dominated by matter and antimatter?

[Dragan Slavkov Hajdukovic](#)

Journal-ref: Astrophys.Space Sci.334:219-223,2011

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

[106] [arXiv:1106.1265](#) [[pdf](#)]

Modelling Complexity: the case of Climate Science

[Valerio Lucarini](#)

Comments: 17 pages, 7 figs, Proceeding of the Conference "Modelling Complexity: the case of Climate Science", Hamburg, 2010

Subjects: **History and Philosophy of Physics (physics.hist-ph)**; Atmospheric and Oceanic Physics (physics.ao-ph); Classical Physics (physics.class-ph); Physics and Society (physics.soc-ph)

[107] [arXiv:1106.1268](#) [[pdf](#), [other](#)]

A Natural Seismic Isolating System: The Buried Mangrove Effects

[Philippe Gueguen](#) (ISTerre, LCPC), [Mickael Langlais](#) (ISTerre), [Pierre Foray](#) (3S-R), [Christophe Rousseau](#) (3S-R), [Julie Maury](#) (ISTerre)

Journal-ref: Bulletin of the Seismological Society of America 101, 3 (2011) 1073-1080

Subjects: **Geophysics (physics.geo-ph)**

[108] [arXiv:1106.1270](#) [[pdf](#)]

Scaling Laws in Particle Physics and Astrophysics

[Rudolf Muradyan](#)

Comments: Dedicated to the Golden Jubilee (1961-2011) of publication of the article by Geoffrey Chew and Steven Frautschi in Phys. Rev. Lett. 7, 394, 1961, where a celebrated Chew-Frautschi plot has been conjectured for spin/mass dependence of hadrons

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

[109] [arXiv:1106.1273](#) [[pdf](#)]

Partition function of 1-, 2-, and 3-D monatomic ideal gas: A simple and comprehensive review

[Siti Nurul Khotimah](#), [Sparisoma Viridi](#)

Comments: 4 pages, 1 figure, 4 tables, being reviewed in Jurnal Pengajaran Fisika Sekolah Menengah

Journal-ref: Jurnal Pengajaran Fisika Sekolah Menengah 2 (2), 15-18 (2010)

Subjects: **Popular Physics (physics.pop-ph)**; Statistical Mechanics (cond-mat.stat-mech)

[110] [arXiv:1106.1275](#) [[pdf](#), [ps](#), [other](#)]

Liquid-solid interaction at nanoscale and its application in vegetal biology

[Henri Gouin](#) (M2P2)

Comments: 16 pages 1 figure New modern concept of the sap ascent in high trees taking into account the disjoining pressure in nanofilms of liquids. The motion of the sap is related to thin films slipping on the xylem walls

Journal-ref: Colloids and Surfaces A: Physicochemical and Engineering Aspects 383, 1-3 (2011) 17-22

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

[111] [arXiv:1106.1276](#) [[pdf](#), [ps](#), [other](#)]

Stability and turbulent transport in rotating shear flows: prescription from analysis of cylindrical and plane Couette flows data

[B. Dubrulle](#), [O. Dauchot](#), [F. Daviaud](#), [P-Y. Longaretti](#), [D. Richard](#), [J-P. Zahn](#)

Comments: RevTex, 21 pages, 20 figures

Journal-ref: Physics of Fluids, vol 17 , 095103 (2005)

Subjects: **Fluid Dynamics (physics.flu-dyn)**; High Energy Astrophysical Phenomena (astro-ph.HE)

[112] [arXiv:1106.1277](#) [[pdf](#), [ps](#), [other](#)]

Basic randomness of nature and ether-drift experiments

[M.Consoli](#), [A.Pluchino](#), [A.Rapisarda](#)

Comments: 22 pages, 2 figures; revised version accepted for publication on Chaos, Solitons and Fractals

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

[113] [arXiv:1106.1279](#) [[pdf](#), [ps](#), [other](#)]

Higher-order photon correlations in pulsed photonic crystal nanolasers

David Elvira (LPN), Xavier Hachair (LPN), V. Verma, Remy Braive (LPN), Gregoire Beaudoin (LPN), Isabelle Robert-Philip (LPN), Isabelle Sagnes (LPN), Burm Baek, Sae Woo Nam, Eric A. Dauler, Izo Abram (LPN), Martin J. Stevens, Alexios Beveratos (LPN)

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

[114] [arXiv:1106.1283](#) [[pdf](#), [ps](#), [other](#)]

Damping by branching: a bioinspiration from trees

Benoit Theckes, Emmanuel de Langre, Xavier Boutillon

Comments: 10 pages, 10 figures

Subjects: **Fluid Dynamics (physics.flu-dyn)**; Biological Physics (physics.bio-ph)

[115] [arXiv:1106.1303](#) [[pdf](#), [ps](#), [other](#)]

Spiky development at the interface in Rayleigh-Taylor instability: Layzer approximation with second harmonic

M. R. Gupta, Rahul Banerjee, Labakanta Mandal, S. Roy, Manoranjan Khan

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

[116] [arXiv:1106.1305](#) [[pdf](#), [ps](#), [other](#)]

Infrared dynamic polarizability of HD⁺ rovibrational states

J.C.J. Koelemeij

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

[117] [arXiv:1106.1320](#) [[pdf](#)]

When holography meets coherent diffraction imaging

Tatiana Latychevskaia, Jean-Nicolas Longchamp, Hans-Werner Fink

Comments: 39 pages, 7 figures

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

[118] [arXiv:1106.1356](#) [[pdf](#)]

Domain Hierarchy of Protein Loop-Lock Structure (DHoPLLS): a server for decomposition of a protein structure on set of closed loops

Simon Kogan, Oleg Kupervasser

Comments: 6 pages, 3 figures

Subjects: **Chemical Physics (physics.chem-ph)**; Computational Engineering, Finance, and Science (cs.CE); Quantitative Methods (q-bio.QM)

[119] [arXiv:1106.1365](#) [[pdf](#), [other](#)]

Walther Bothe and Bruno Rossi: the birth and development of coincidence methods in cosmic-ray physics

Luisa Bonolis

Comments: To be published in American Journal of Physics; 50 pages, 8 figures

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

[120] [arXiv:1106.1369](#) [[pdf](#), [ps](#), [other](#)]

Achievable Transverse Cylindrical Electromagnetic Mode

R. Chen, X. Li

Comments: 7 pages, 1 figure, 25 equations

Journal-ref: Progress In Electromagnetics Research Letters, Vol. 24, 59-68, 2011

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

[121] [arXiv:1106.1463](#) [[pdf](#), [ps](#), [other](#)]

Charged Particle Motion in a Plasma: Electron-Ion Energy Partition

Lowell S. Brown, Dean L. Preston, Robert L. Singleton Jr

Comments: Improved abstract, introduction, and conclusions
Subjects: **Plasma Physics (physics.plasm-ph)**

[122] [arXiv:1106.1477](#) [[pdf](#), [ps](#), [other](#)]

Surface Acoustic Wave Frequency Comb

[A. A. Savchenkov](#), [A. B. Matsko](#), [V. S. Ilchenko](#), [D. Seidel](#), [L. Maleki](#)

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

[123] [arXiv:1106.1492](#) [[pdf](#), [ps](#), [other](#)]

Ultracold spin-polarized mixtures of 2Sigma molecules with S-state atoms: Collisional stability and implications for sympathetic cooling

[T. V. Tscherbul](#), [J. Klos](#), [A. A. Buchachenko](#)

Comments: 5 pages, 3 figures, 0 tables

Journal-ref: Phys. Rev. A 84, 040701(R) (2011)

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

[124] [arXiv:1106.1503](#) [[pdf](#), [ps](#), [other](#)]

Criteria to define a pair-ion plasma and the role of electrons in nonlinear dynamics

[Hamid Saleem](#)

Journal-ref: AIP Conference Proceedings, Volume 1061, pp. 255-262 (2008)

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

[125] [arXiv:1106.1525](#) [[pdf](#), [ps](#), [other](#)]

Gravitational interactions between fast neutrinos and the formation of bound rotational states

[Constantinos G. Vayenas](#), [Stamatios Souentie](#)

Comments: 17 pages, 6 figures, 2 tables. arXiv admin note: substantial text overlap with [arXiv:1003.4686](#)

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

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