

## DARK MATTER AND DARK ENERGY

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*ApP*

[First measurement of the head–tail directional nuclear recoil signature at energies relevant to WIMP dark matter searches](#)

S. Burgos, E. Daw, J. Forbes, C. Ghag, M. Gold, C. Hagemann, V.A. Kudryavtsev, T.B. Lawson, D. Loomba, P. Majewski, D. Muna, A.St.J. Murphy, G.G. Nicklin, S.M. Paling, A. Petkov, S.J.S. Plank, M. Robinson, N. Sanghi, D.P. Snowden-Ifft, N.J.C. Spooner, *et al.*

[Commissioning run of the CRESST-II dark matter search](#)

G. Angloher, M. Bauer, I. Bavykina, A. Bento, A. Brown, C. Bucci, C. Ciemniak, C. Coppi, G. Deuter, F. von Feilitzsch, D. Hauff, S. Henry, P. Huff, J. Imber, S. Ingleby, C. Isaila, J. Jochum, M. Kiefer, M. Kimmerle, H. Kraus, *et al.*

*JCAP*

[Axionic dark energy and a composite QCD axion](#)

Jihn E. Kim and Hans Peter Nilles

[Lyman- \$\alpha\$  constraints on warm and on warm-plus-cold dark matter models](#)

Alexey Boyarsky, Julien Lesgourgues, Oleg Ruchayskiy and Matteo Viel

[Dark matter model selection and the ATIC/PPB-BETS anomaly](#)

Chuan-Ren Chen, Koichi Hamaguchi, Mihoko M. Nojiri, Fuminobu Takahashi and Shoji Torii

[Dark matter signals from cascade annihilations](#)

Jeremy Mardon, Yasunori Nomura, Daniel Stolarski and Jesse Thaler

*PLB*

[Fixed points in interacting dark energy models](#)

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*NPB*

[Model-independent implications of the  \$e^\pm, \bar{p}\$  cosmic ray spectra on properties of Dark Matter](#)

M. Cirelli, M. Kadastik, M. Raidal, A. Strumia

*PRD*

[Split universal extra dimension and dark matter](#)

Seong Chan Park, Jing Shu.

[Effective theory of Dirac dark matter](#)

Roni Harnik, Graham D. Kribs.

[Breit-Wigner enhancement of dark matter annihilation](#)

Masahiro Ibe, Hitoshi Murayama, T. T. Yanagida.

[Mixed neutralino dark matter in nonuniversal gaugino mass models](#)

Utpal Chattopadhyay, Debottam Das, D. P. Roy.

[Unified dark matter model in a singlet extension of the universal extra dimension model](#)

Yang Bai, Zhenyu Han.

[Thermal production of axions in the Earth](#)

Hooman Davoudiasl, Patrick Huber.

[Gauge-Higgs unification, neutrino masses, and dark matter in warped extra dimensions](#)

Marcela Carena, Anibal D. Medina, Nausheen R. Shah, Carlos E. M. Wagner.

[Electroweak vacua, collider phenomenology, and possible connection with dark energy](#)

Eric Greenwood, Evan Halstead, Robert Poltis, Dejan Stojkovic.

[Exploring parameter constraints on quintessential dark energy: The inverse power law model](#)

Mark Yashar, Brandon Bozek, Augusta Abrahamse, Andreas Albrecht, Michael Barnard.

[Dark energy from a quintessence \(phantom\) field rolling near a potential minimum \(maximum\)](#)

Sourish Dutta, Emmanuel N. Saridakis, Robert J. Scherrer.

[Gauss-Bonnet chameleon mechanism of dark energy](#)

Yusaku Ito, Shin'ichi Nojiri.

[Dark radiation as a signature of dark energy](#)

Sourish Dutta, Stephen D. H. Hsu, David Reeb, Robert J. Scherrer.

[Slow-roll inflation in the presence of a dark energy coupling](#)

Philippe Brax, Carsten van de Bruck, Lisa M. H. Hall, Joel M. Weller.

[Holographic Ricci dark energy: Current observational constraints, quintom feature, and the reconstruction of scalar-field dark energy](#)

Xin Zhang.

[Excesses in cosmic ray positron and electron spectra from a nearby clump of neutralino dark matter](#)

Dan Hooper, Albert Stebbins, Kathryn M. Zurek.

[k-essence model of inflation, dark matter, and dark energy](#)

Nilok Bose, A. S. Majumdar.

[Does bulk viscosity create a viable unified dark matter model?](#)

Baojiu Li, John D. Barrow.

[Unification of inflation, dark energy, and dark matter within the Salam-Sezgin cosmological model](#)

Alfredo B. Henriques, Robertus Potting, Paulo M. Sá.

[keV warm dark matter via the supersymmetric Higgs portal](#)

John McDonald, Narendra Sahu.

[Gauss-Bonnet braneworld cosmological effect on relic density of dark matter](#)

Nobuchika Okada, Satomi Okada.

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Dan Hooper, Kathryn M. Zurek.

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Annika H. G. Peter.

[Dark matter in the Solar System. III. The distribution function of WIMPs at the Earth from gravitational capture](#)

Annika H. G. Peter.

[Dark energy, inflation, and extra dimensions](#)

Paul J. Steinhardt, Daniel Wesley.

[Solar neutrino limit on axions and keV-mass bosons](#)

Paolo Gondolo, Georg G. Raffelt.

*PRL*

[Active Galactic Nuclei Shed Light on Axionlike Particles](#)

Clare Burrage, Anne-Christine Davis, Douglas J. Shaw.

[Limits on a Muon Flux from Neutralino Annihilations in the Sun with the IceCube 22-String Detector](#)

R. Abbasi, *et al.*

[Realistic Sterile Neutrino Dark Matter with keV Mass does not Contradict Cosmological Bounds](#)

Alexey Boyarsky, Julien Lesgourgues, Oleg Ruchayskiy, Matteo Viel.

[Proposal for a Search for Cosmic Axions Using an Optical Cavity](#)

A. C. Melissinos.

MPLA

[PARTICLE PRODUCTION IN COSMOLOGICAL SPACETIMES WITH ELECTROMAGNETIC FIELDS](#)

SHAHPOOR MORADI

[ON ANISOTROPIC DARK ENERGY](#)

R. CHAN; M. F. A. DA SILVA; JAIME F. VILLAS DA ROCHA

*arXiv*

[CMB constraints on Dark Matter models with large annihilation cross-section](#)

S. Galli, F. Iocco, G. Bertone, A. Melchiorri.

[Gravitino Dark Matter and Non-Gaussianity](#)

Tomo Takahashi, Masahide Yamaguchi, Jun'ichi Yokoyama, Shuichiro Yokoyama.

[Dark matter interpretation of recent electron and positron data](#)

Lars Bergstrom, Joakim Edsjo, Gabrijela Zaharijas.

[Multi-messenger constraints on the annihilating dark matter interpretation of the positron excess](#)

Miguel Pato, Lidia Pieri, Gianfranco Bertone.

[The Growth of Structure in Interacting Dark Energy Models](#)

Gabriela Caldera-Cabral, Roy Maartens, Bjoern Malte Schaefer.

[Dark Energy from Large-Scale Structure Lensing Information](#)

Tingting Lu, Ue-Li Pen, Olivier Doré.

[Viscous Ricci Dark Energy](#)

Chao-Jun Feng, Xin-Zhou Li.

[The Dark Energy Survey Data Management System: The Processing Framework](#)

Michelle Gower, Joseph J. Mohr, Darren Adams, Y. Dora Cai, Gregory E. Daues, Tony Darnell, Chow-Choong Ngeow, Shantanu Desai, Cristina Beldica, Mike Freemon, Huan



**ASPERA**

**ASTROPARTICLE PUBLICATION REVIEW – May 2009**

Lin, Eric H. Neilsen, Douglas Tucker, Emmanuel Bertin, Luiz A. Nicolaci da Costa, Leandro Martelli, Ricardo L. C. Ogando, Michael Jarvis, Erin Sheldon.

[A new high-background-rejection dark matter Ge cryogenic detector](#)

A. Broniatowski, X. Defay, E. Armengaud, L. Berge, A. Benoit, O. Besida, J. Blumer, A. Chantelauze, M. Chapellier, G. Chardin, F. Charlieux, S. Collin, O. Crauste, M. De Jesus, P. Di Stefano, Y. Dolgorouki, J. Domange, L. Dumoulin, K. Eitel, J. Gascon, G. Gerbier, M. Gros, M. Hannawald, S. Herve, A. Juillard, H. Kluck, V. Kozlov, R. Lemrani, A. Lubashevskiy, C. Marrache, S. Marnieros, X.-F. Navick, C. Nones, E. Olivieri, P. Pari.

[Merger rates of dark matter haloes from merger trees in the extended Press-Schechter theory](#)

Nicos Hiotelis.

[Did Dark Energy Suddenly Emerge At Redshift  \$z \sim 0.331\$ ?](#)

Qing-Guo Huang, Miao Li, Xiao-Dong Li, Shuang Wang.

[Tidal disruption of globular clusters in dwarf galaxies with triaxial dark matter haloes](#)

Jorge Penarrubia, Matthew G. Walker, Gerard Gilmore.

[Dark Energy and Hubble Constant From the Latest SNe Ia, BAO and SGL](#)

Qing-Jun Zhang, Yue-Liang Wu.

[Star Cluster Evolution in Dark Matter Dominated Galaxies](#)

A. K. Praagman, J. R. Hurley, C. Power.

[On the Size Evolution of a Galactic Disk in Hierarchical Merging of Cold Dark Matter Halos](#)

Hirohito Hayashi, Masashi Chiba.

[Gamma-rays from dark matter annihilations strongly constrain the substructure in halos](#)

Anders Pinzke, Christoph Pfrommer, Lars Bergstrom.

[The detection of sub-solar mass dark matter halos](#)

Savvas M. Koushiappas.

[Comments on "Modeling Galaxy Halos Using Dark Matter with Pressure"](#)

Kung-Yi Su, Pisin Chen.

[Global non-axisymmetric perturbation configurations in a composite disc system with an isopedic magnetic field: relation between dark matter halo and magnetic field](#)

M. Xiang-Gruess, Y.-Q. Lou, W. J. Duschl.

[Mass functions and bias of dark matter halos](#)

P. Valageas.

[Dark matter bound to the Solar System: consequences for annihilation searches](#)

Annika H. G. Peter.

[Dark energy: the absolute electric potential of the universe](#)

Jose Beltran Jimenez, Antonio L. Maroto.

[Constraints on the Phase Plane of the Dark Energy Equation of State](#)

Chien-Wen Chen, Pisin Chen, Je-An Gu.

[On vacuum density, the initial singularity and dark energy](#)

Saulo Carneiro, Reza Tavakol.

[Hints of the existence of Axion-Like-Particles from the gamma-ray spectra of cosmological sources](#)

M. A. Sanchez-Conde, D. Paneque, E. Bloom, F. Prada, A. Dominguez.

[Fisher Matrix Decomposition for Dark Energy Prediction](#)

T. D. Kitching, A. Amara.

[Anisotropic dark energy and CMB anomalies](#)

Richard Battye, Adam Moss.

[Gaseous Dark Matter Detectors](#)

Gabriella Sciolla, C. Jeff Martoff.

[Constraining dark energy with gamma-ray bursts](#)

Lado Samushia, Bharat Ratra.

[A generalized equation of state for dark energy](#)

E. M. Barboza Jr, J. S. Alcaniz, Z.-H. Zhu, R. Silva.

[Gravitational lensing as a probe of cold dark matter subhalos](#)

E. Zackrisson, T. Riehm.

[Superbradyons and some possible dark matter signatures](#)

Luis Gonzalez-Mestres.

[Cosmic Constraints on Holographic Dark Energy in Brans-Dicke Theory](#)

Lixin Xu, Jianbo Lu, Wenbo Li.

[Geometry of Dark Energy](#)

M. D. Maia, A. J. S. Capistrano, J. S. Alcaniz, E. M. Monte.

[Electron and Gamma Background in CRESST Detectors](#)

R. F. Lang, G. Angloher, M. Bauer, I. Bavykina, A. Bento, A. Brown, C. Bucci, C. Ciemniak, C. Coppi, G. Deuter, F. von Feilitzsch, D. Hauff, S. Henry, P. Huff, J. Imber, S. Ingleby, C. Isaila, J. Jochum, M. Kiefer, M. Kimmerle, H. Kraus, J.-C. Lanfranchi, B. Majorovits, M. Malek, R. McGowan, V. B. Mikhailik, E. Pantic, F. Petricca, S. Pfister, W. Potzel, F. Pröbst, S. Roth, K. Rottler, C. Sailer, K. Schäffner, J. Schmalzer, S. Scholl, W. Seidel, L. Stodolsky, A. J. B. Tolhurst, I. Usherov, W. Westphal.

[Forecasts for Dark Energy Measurements with Future HI Surveys](#)

Filipe B. Abdalla, Chris Blake, Steve Rawlings.

[Cosmic Gamma-ray from Inverse Compton Process in Unstable Dark Matter Scenario](#)

Koji Ishiwata, Shigeki Matsumoto, Takeo Moroi.

[Micromegas micro-TPC for direct Dark Matter search with MIMAC](#)

F. Mayet, O. Guillaudin, C. Grignon, C. Koumeir, D. Santos, P. Colas, I. Giomataris.

[MIMAC : a micro-TPC detector for non-baryonic dark matter search](#)

F. Mayet, O. Guillaudin, D. Santos, A. Trichet.

[Exact analytic solution of sub-horizon scales linear perturbation for general dark energy models](#)

Seokcheon Lee.

[Dark Matter Annihilation around Intermediate Mass Black Holes: an update](#)

Gianfranco Bertone, Mattia Fornasa, Marco Taoso, Andrew R. Zentner.

[High Energy Neutrinos As A Test of Leptophilic Dark Matter](#)

Douglas Spolyar, Matthew Buckley, Katherine Freese, Dan Hooper, Hitoshi Murayama.

[Dark matter directional detection with MIMAC](#)

C. Grignon, J. Billard, G. Bosson, O. Bourrion, O. Guillaudin, C. Koumeir, F. Mayet, D. Santos, P. Colas, E. Ferrer, I. Giomataris.

[Galactic Signatures of Decaying Dark Matter](#)

Le Zhang, Guenter Sigl, Javier Redondo.

[Anti-gravity and/or dark matter contributions from massive gravity](#)

Michael V. Bebronne.

[Dark energy and Chern-Simons like gravity from a dynamical four-form](#)

Patrick Das Gupta.

[Dark matter and cosmic acceleration from Wesson's IMT](#)

Mark Israelit.

[CAST results and Axion review](#)

T. Gerialis, CAST collaboration.

[Update on the Direct Detection of Dark Matter in MSSM Models with Non-Universal Higgs Masses](#)

John Ellis, Keith A. Olive, Pearl Sandick.

[R-violating Decay of Wino Dark Matter and electron/positron Excesses in the PAMELA/Fermi Experiments](#)

Satoshi Shirai, Fuminobu Takahashi, T. T. Yanagida.

[Dark Matter Interpretations of the Electron/Positron Excesses after FERMI](#)

Patrick Meade, Michele Papucci, Alessandro Strumia, Tomer Volansky.

[Dark Matter Prospects in Deflected Mirage Mediation](#)

Michael Holmes, Brent D. Nelson.

[Scalar Dark Matter and DAMA](#)

Sarah Andreas.

[Effective Theory for Dark Matter and a New Force in the Dark Matter Sector](#)

Xavier Calmet, Swarup Kumar Majee.

[Dark Matter with Dirac and Majorana Gaugino Masses](#)

G. Belanger, K. Benakli, M. Goodsell, C. Moura, A. Pukhov.

[Gluino NLSP, Dark Matter via Gluino Coannihilation, and LHC Signatures](#)

Daniel Feldman, Zuowei Liu, Pran Nath.

[Non-Thermal Production of WIMPs, Cosmic  \$e^{\pm}\$  Excesses and  \$\gamma\$ -rays from the Galactic Center](#)

Xiao-Jun Bi, Robert Brandenberger, Paolo Gondolo, Tianjun Li, Qiang Yuan, Xinmin Zhang.

[Cosmic Ray Anomalies and Dark Matter Annihilation to Muons via a Higgs Portal Hidden Sector](#)

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[Capture of Inelastic Dark Matter in the Sun](#)

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Koichi Hamaguchi, Kouhei Nakaji, Eita Nakamura.

[Topological Dark Matter](#)

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[Capture and Indirect Detection of Inelastic Dark Matter](#)

Arjun Menon, Rob Morris, Aaron Pierce, Neal Weiner.

[Rare meson decays into very light neutralinos](#)

H. K. Dreiner, S. Grab, Daniel Koschade, M. Kramer, Ulrich Langenfeld, Ben O'Leary.

[Upward muon signals at neutrino detectors as a probe of dark matter properties](#)

Junji Hisano, Kazunori Nakayama, Masaki J.S. Yang.

[Reconciling dark matter and neutrino masses in mSUGRA](#)

Chiara Arina.

[Neutralino Dark Matter with Inert Higgsinos and Singlinos](#)

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[Topological Dark Matter in the Little Higgs Models](#)

Anosh Joseph, S. G. Rajeev.

[The PAMELA and Fermi signals from long-lived Kaluza-Klein dark matter](#)

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[Neutrino masses, muon  \$g-2\$ , dark matter, lithium problem, and leptogenesis at TeV-scale](#)

Chian-Shu Chen, Chung-Hsien Chou.

[Gravitino Dark Matter in Gravity Mediation](#)

Joern Kersten, Oleg Lebedev.

[Neutrinos from the terrestrial passage of supersymmetric dark matter Q-balls](#)

Alexander Kusenko, Ian M. Shoemaker.

[A TeV scale model for neutrino mass, dark matter and baryon asymmetry](#)

Mayumi Aoki, Shinya Kanemura, Osamu Seto.

[Dark matter direct detection in the MSSM with heavy scalars](#)

Nicolas Bernal.

[Absolute electron and positron fluxes from PAMELA/Fermi and Dark Matter](#)

C. Balázs, N. Sahu, A. Mazumdar.

[A Possible Connection Between Massive Fermions and Dark Energy](#)

T. Goldman, G.J. Stephenson Jr., P.M. Alsing, B.H.J. McKellar.

[Searching for an Axion-like Particle at the Large Hadron Collider](#)

Claudio Coriano, Marco Guzzi, Antonio Mariano.

[Heavy Scalar Dark Matter](#)

Fu-Sin Ling.

[Parametrization of Born-Infeld Type Dark Energy Model](#)

Z. G. Huang, H. Q. Lu, W. Fang.

[Age problem in holographic dark energy](#)

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[Specially Coupled Dark Energy in the Oscillating FRW Cosmology](#)

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[Horava-Lifshitz Dark Energy](#)

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[Dark matter as integration constant in Horava-Lifshitz gravity](#)

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[Identification of All Dark Matter as Black Holes](#)

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[Calibration of a Liquid Xenon Detector with Kr-83m](#)

L. W. Kastens, S. B. Cahn, A. Manzur, D. N. McKinsey.

[On the nature of dark energy. Is the Casimir force a manifestation of this exotic kind of energy?](#)

P. Brovetto, V. Maxia, M. Salis.

## **COSMIC RAYS**

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### *ApP*

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[Multi-wavelength calibration procedure for the pierre Auger Observatory Fluorescence Detectors](#)

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### *JCAP*

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### *PLB*

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*NPB*

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M. Cirelli, M. Kadastik, M. Raidal, A. Strumia

*NPB-PS*

[Proceedings of the Cosmic Ray International Seminars](#)

Malfa, Salina Island, Italy

15-19 September 2008

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*PRD*

[Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger Observatory](#)

J. Abraham, *et al.*

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Dan Hooper, Albert Stebbins, Kathryn M. Zurek.

[PAMELA and ATIC signals from Kaluza-Klein dark matter](#)

Dan Hooper, Kathryn M. Zurek.

*PRL*

[Measurement of the Cosmic Ray  \$e^+e^-\$  Spectrum from 20 GeV to 1 TeV with the Fermi Large Area Telescope](#)

A. A. Abdo, *et al.*

*arXiv*

[Measurement of the Cosmic Ray e+ plus e- spectrum from 20 GeV to 1 TeV with the Fermi Large Area Telescope](#)  
Fermi/LAT Collaboration.

[Energy dependence of Ti/Fe ratio in the Galactic cosmic rays measured by the ATIC-2 experiment](#)

V.I. Zatsepin, A.D. Panov, N.V. Sokolskaya, J.H. Adams, Jr., H.S. Ahn, G.L. Bashindzhagyan, J. Chang, M. Christl, A.R. Fazely, T.G. Guzik, J.B. Isbert, K.C. Kim, E.N. Kouznetsov, M.I. Panasyuk, E.S. Seo, J. Watts, J.P. Wefel, J. Wu.

[Probing the ATIC peak in the cosmic-ray electron spectrum with H.E.S.S.](#)

H.E.S.S. Collaboration, F. Aharonian.

[The Cosmic-Ray Positron and Electron Excess: An Experimentalist's Point of View](#)

Michael Schubnell.

[Inhomogeneity in the Supernova Remnants as a Natural Explanation of the PAMELA/ATIC Observations](#)

Tsvi Piran, Nir J. Shaviv, Ehud Nakar.

[A model of acceleration of Anomalous Cosmic Rays by Reconnection in the Heliosheath](#)

A. Lazarian, M. Opher.

[Evolution of Magnetic Fields and Cosmic Ray Acceleration in Supernova Remnants](#)

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[Achievements and Mirages in Uhecr and Neutrino Astronomy](#)

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[Cosmic ray electron anisotropies as a tool to discriminate between exotic and astrophysical sources](#)

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[On the Positron Fraction and the Spectrum of the Electronic Component in Cosmic Rays](#)

R. Cowsik, B. Burch.

[First buried muon counter prototype for the Auger Observatory](#)

I. P. Sidelnik, B. Wundheiler, E. Colombo, A. Etchegoyen, A. Ferrero, M. Platino, O. Wainberg.

[The PAMELA Space Experiment](#)

E. Mocchiutti, O. Adriani, G. C. Barbarino, G. A. Bazilevskaya, R. Bellotti, M. Boezio, E. A. Bogomolov, L. Bonechi, M. Bongi, V. Bonvicini, S. Borisov, S. Bottai, A. Bruno, F. Cafagna, D. Campana, R. Carbone, P. Carlson, M. Casolino, G. Castellini, M. P. De Pascale, N. De Simone, V. Di Felice, A. M. Galper, W. Gillard, L. Grishantseva, P. Hofverberg, G. Jerse, S. V. Koldashov, S. Y. Krutkov, A. N. Kvashnin, A. Leonov, O. Maksumov, V. Malvezzi, L. Marcelli, W. Menn, V. V. Mikhailov, N. N. Nikonov, G.

Osteria, P. Papini, M. Pearce, P. Picozza, M. Ricci, S. B. Ricciarini, L. Rossetto, M. Runtso, M. Simon, R. Sparvoli, P. Spillantini, Y. I. Stozhkov, A. Vacchi, E. Vannuccini, G. Vasilyev, S. A. Voronov, J. Wu, Y. T. Yurkin, G. Zampa, N. Zampa, V. G. Zverev.

[On discrepancy between ATIC and Fermi data](#)

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[Clumpiness enhancement of charged cosmic rays from dark matter annihilation with Sommerfeld effect](#)

Qiang Yuan, Xiao-Jun Bi, Jia Liu, Peng-Fei Yin, Juan Zhang, Shou-Hua Zhu.

[Cosmic Rays in the Disk and Halo of Galaxies](#)

V. Dogiel, D. Breitschwerdt.

[Testing astrophysical models for the PAMELA positron excess with cosmic ray nuclei](#)

Philipp Mertsch, Subir Sarkar.

[Ultra high energy cosmic rays: subluminal and superluminal shocks](#)

A. Meli, J.K. Becker, J.J. Quenby.

[A Three-Point Cosmic Ray Anisotropy Method](#)

J. D. Hague, B. R. Becker, M. S. Gold, J. A. J. Matthews.

[Composition of cosmic rays accelerated in active galactic nuclei](#)

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[R-violating Decay of Wino Dark Matter and electron/positron Excesses in the PAMELA/Fermi Experiments](#)

Satoshi Shirai, Fuminobu Takahashi, T. T. Yanagida.

[Resolving Fermi, PAMELA and ATIC anomalies in split supersymmetry without R-parity](#)

Chuan-Hung Chen, Chao-Qiang Geng, Dmitry V. Zhuridov.

[EPOS Model and Ultra High Energy Cosmic Rays](#)

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[Cosmic Ray Anomalies and Dark Matter Annihilation to Muons via a Higgs Portal Hidden Sector](#)

Kazunori Kohri, John McDonald, Narendra Sahu.

[Inverse Problem of Cosmic-Ray Electron/Positron from Dark Matter](#)

Koichi Hamaguchi, Kouhei Nakaji, Eita Nakamura.

[Anti-Matter in Cosmic Rays : Backgrounds and Signals](#)

Timur Delahaye, Pierre Brun, Fiorenza Donato, Nicolao Fornengo, Julien Laval, Roberto Lineros, Richard Taillet, Pierre Salati.

[The PAMELA and Fermi signals from long-lived Kaluza-Klein dark matter](#)

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[The PAMELA excess from neutralino annihilation in the NMSSM](#)

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Satoshi Shirai, Fuminobu Takahashi, T. T. Yanagida.

[Resolution to neutrino masses, baryon asymmetry in leptogenesis and cosmic-ray anomalies](#)

Chuan-Hung Chen.

[Absolute electron and positron fluxes from PAMELA/Fermi and Dark Matter](#)

C. Balázs, N. Sahu, A. Mazumdar.

[Bhabha's Contributions to Elementary Particle Physics and Cosmic Rays Research](#)

Virendra Singh.

[Cosmic Ray Tests of the Prototype TPC for the ILC Experiment](#)

K. Ackermann, S. Arai, D. C. Arogancia, A. M. Bacala, M. Ball, T. Behnke, H. Bito, V. Eckardt, K. Fujii, T. Fusayasu, N. Ghodbane, H. C. Gooc Jr., T. Kijima, M. Hamann, M. Habu, R. -D. Heuer, K. Hiramatsu, K. Ikematsu, A. Kaukher, H. Kuroiwa, M.E. Janssen, Y. Kato, M. Kobayashi, T. Kuhl, T. Lux, T. Matsuda, S. Matsushita, A. Miyazaki, K. Nakamura, O. Nitoh, H. Ohta, R. L. Reserva, K. Sakai, N. Sakamoto, T. Sanuki, R. Settles, A. Sugiyama, T. Takahashi, T. Tomioka, H. Tsuji, T. Watanabe, P. Wienemann, R. Wurth, H. Yamaguchi, M. Yamaguchi, A. Yamaguchi, T. Yamamura, H. Yamaoka, T. Yazu, R. Yonamine.

## **X and GAMMA RAYS**

---

*NIM A*

[Monte-Carlo simulations of the background of the coded-mask camera for X- and Gamma-rays on-board the Chinese–French GRB mission SVOM](#)

O. Godet, P. Sizun, D. Barret, P. Mandrou, B. Cordier, S. Schanne, N. Remoué

*arXiv*

[The Host Galaxies of Swift Dark Gamma-Ray Bursts: Observational Constraints on Highly Obscured and Very High-Redshift GRBs](#)

D. A. Perley, S. B. Cenko, J. S. Bloom, H.-W. Chen, N. R. Butler, D. Kocevski, J. X. Prochaska, M. Brodwin, K. Glazebrook, M. M. Kasliwal, S. R. Kulkarni, S. Lopez, E. O. Ofek, M. Pettini, A. M. Soderberg, D. Starr.

[Blazars: the gamma-ray view of AGILE](#)

F. D'Ammando, S. Vercellone, I. Donnarumma, A. Bulgarelli, A. W. Chen, A. Giuliani, F. Longo, L. Pacciani, G. Pucella, M. Tavani, V. Vittorini, AGILE Team.



[Upgrading and testing the 3D reconstruction of gamma-ray air showers as observed with an array of Imaging Atmospheric Cherenkov telescopes](#)

M. Naumann-Godó, M. Lemoine-Goumard, B. Degrange.

[Optical Classification of Gamma-Ray Bursts in the Swift Era](#)

A.J. van der Horst, C. Kouveliotou, N. Gehrels, E. Rol, R.A.M.J. Wijers, J.K. Cannizzo, J. Racusin, D.N. Burrows.

[The Collimation and Energetics of the Brightest Swift Gamma-Ray Bursts](#)

S. B. Cenko, D. A. Frail, F. A. Harrison, S. R. Kulkarni, E. Nakar, P. Chandra, N. R. Butler, D. B. Fox, A. Gal-Yam, M. M. Kasliwal, J. Kelemen, D.-S. Moon, P. A. Price, A. Rau, A. M. Soderberg, H. I. Teplitz, M. W. Werner, D. C.-J. Bock, J. S. Bloom, D. A. Starr, A. V. Filippenko, R. A. Chevalier, N. Gehrels, J. N. Nousek, T. Piran.

[Classification of BeppoSAX's Gamma-Ray Bursts](#)

I. Horvath.

[Interpretation and implication of the non-detection of GeV spectrum excess by Fermi gamma-ray Space Telescope in most GRBs](#)

Yi-Zhong Fan.

[GeV Gamma-Ray Attenuation and the High-Redshift UV Background](#)

Rudy C. Gilmore, Piero Madau, Joel R. Primack, Rachel S. Somerville, Francesco Haardt.

[A new interpretation of the gamma-ray observations of active galactic nuclei](#)

Warren Essey, Alexander Kusenko.

[Search for Gamma Ray Bursts with the Argo-YBJ Detector in Scaler Mode](#)

ARGO-YBJ Collaboration, G. Aielli.

[Latest results on Galactic sources as seen in VHE gamma-rays](#)

Matthieu Renaud.

[Slow Heating Model of Gamma-Ray Burst: Photon Spectrum and Delayed Emission](#)

K. Asano, T. Terasawa.

[Absorption of 10 GeV--1 TeV Gamma Rays from 3C 279](#)

J. M. Bai, H. T. Liu, L. Ma.

[GeV emission from short Gamma-Ray Bursts: the case of GRB 081024B](#)

Alessandra Corsi, Dafne Guetta, Luigi Piro.

[Probing the Gamma-Ray Burst Progenitor by Lyman-Alpha Emission of Host Galaxies](#)

Yuu Niino, Tomonori Totani, Masakazu A. R. Kobayashi.

[An up-scattered cocoon emission model of Gamma-Ray Burst high-energy lags](#)

Kenji Toma, Xue-Feng Wu, Peter Meszaros.

[Gamma-rays from dark matter annihilations strongly constrain the substructure in halos](#)  
Anders Pinzke, Christoph Pfrommer, Lars Bergstrom.

[Modeling The GRB Host Galaxy Mass Distribution: Are GRBs Unbiased Tracers of Star Formation?](#)  
Daniel Kocevski, Andrew A. West, Maryam Modjaz.

[Signatures of a Thermal Component in Shock-Accelerated Electrons in GRBs](#)  
Dimitrios Giannios, Anatoly Spitkovsky.

[On the generation of high energy photons detected by the Fermi Satellite from gamma-ray bursts](#)  
Pawan Kumar, Rodolfo Barniol Duran.

[Search for VHE  \$\gamma\$ -ray emission from the globular cluster M13 with the MAGIC telescope](#)  
MAGIC Collaboration.

[Gamma-Ray Burst Luminosity Functions Based On a Newly Discovered Correlation Between Peak Spectral Energy and  \$V/V\_{max}\$](#)   
Maarten Schmidt.

[Evidence for long-term Gamma-ray and X-ray variability from the unidentified TeV source HESS J0632+057](#)  
VERITAS Collaboration, V. A. Acciari, E. Aliu, T. Arlen, M. Beilicke, W. Benbow, D. Boltuch, S. M. Bradbury, J. H. Buckley, V. Bugaev, K. Byrum, A. Cannon, A. Cesarini, A. Cesarini, Y. C. Chow, L. Ciupik, P. Cogan, R. Dickherber, C. Duke, T. Ergin, A. Falcone, S. J. Fegan, J. P. Finley, G. Finnegan, P. Fortin, L. Fortson, A. Furniss, K. Gibbs, G. H. Gillanders, J. Grube, R. Guenette, G. Gyuk, D. Hanna, J. Holder, D. Horan, C. M. Hui, T. B. Humensky, A. Imran, P. Kaaret, N. Karlsson, M. Kertzman, D. Kieda, J. Kildea, A. Konopelko, H. Krawczynski, F. Krennrich, M. J. Lang, S. LeBohec, G. Maier, A. McCann, M. McCutcheon, J. Millis, P. Moriarty, R. Mukherjee, R. A. Ong, A. N. Otte, D. Pandel, J. S. Perkins, D. Petry, M. Pohl, J. Quinn, K. Ragan, L. C. Reyes, P. T. Reynolds, H. J. Rose, M. Schroedter.

[Magnetars, Gamma-ray Bursts, and Very Close Binaries](#)  
A. I. Bogomazov, S. B. Popov.

[Hints of the existence of Axion-Like-Particles from the gamma-ray spectra of cosmological sources](#)  
M. A. Sanchez-Conde, D. Paneque, E. Bloom, F. Prada, A. Dominguez.

[Observation of Extended VHE Emission from the Supernova Remnant IC 443 with VERITAS](#)  
VERITAS Collaboration, V. A. Acciari, E. Aliu, T. Arlen, T. Aune, M. Bautista, M. Beilicke, W. Benbow, S. M. Bradbury, J. H. Buckley, V. Bugaev, Y. Butt, K. Byrum, A. Cannon, O. Celik, A. Cesarini, Y. C. Chow, L. Ciupik, P. Cogan, P. Colin, W. Cui, M. K. Daniel, R. Dickherber, C. Duke, V. V. Dwarkadas, T. Ergin, S. J. Fegan, J. P. Finley, G. Finnegan, P. Fortin, L. Fortson, A. Furniss, D. Gall, K. Gibbs, G. H. Gillanders, S.



Godambe, J. Grube, R. Guenette, G. Gyuk, D. Hanna, E. Hays, J. Holder, D. Horan, C. M. Hui, T. B. Humensky, A. Imran, P. Kaaret, N. Karlsson, M. Kertzman, D. Kieda, J. Kildea, A. Konopelko, H. Krawczynski, F. Krennrich, M. J. Lang, S. LeBohec, G. Maier, A. McCann, M. McCutcheon, J. Millis, P. Moriarty, R. A. Ong, A. N. Otte, D. Pandel, J. S. Perkins, M. Pohl, J. Quinn.

[Galactic diffuse gamma-ray flux at the energy about 175 TeV](#)

Romen M. Martirosov, Samvel V. Ter-Antonyan, Anatoly D. Erlykin, Alexandr P. Garyaka, Natalya M. Nikolskaya, Yves A. Gallant, Lawrence W. Jones.

[Casting light on the 'anomalous' statistics of Mg II toward Gamma-Ray Burst afterglows: the incidence of weak systems](#)

Nicolas Tejos, Sebastian Lopez, J. Xavier Prochaska, Joshua S. Bloom, Hsiao-Wen Chen, Miroslava Dessauges-Zavadsky, Maria J. Maureira.

[Constraining dark energy with gamma-ray bursts](#)

Lado Samushia, Bharat Ratra.

[Pulsed Gamma-rays from PSR J2021+3651 with the Fermi Large Area Telescope](#)

A.A.Abdo.

[Cosmic Gamma-ray from Inverse Compton Process in Unstable Dark Matter Scenario](#)

Koji Ishiwata, Shigeki Matsumoto, Takeo Moroi.

[A comparison of the gamma-ray bursts detected by BATSE and Swift](#)

D. Huja, A. Meszaros, J. Ripa.

## **NEUTRINOS AND PROTON DECAY**

---

*ApP*

[Performance of the first ANTARES detector line](#)

M. Ageron, J.A. Aguilar, A. Albert, F. Ameli, M. Anghinolfi, G. Anton, S. Anvar, M. Ardid, J.-J. Aubert, J. Aublin, R. Auer, S. Basa, M. Bazzotti, Y. Becherini, V. Bertin, S. Biagi, A. Bigi, C. Bigongiari, M. Bou-Cabo, M.C. Bouwhuis, *et al.*

[First study of neutron tagging with a water Cherenkov detector](#)

H. Watanabe, H. Zhang, K. Abe, Y. Hayato, T. Iida, M. Ikeda, J. Kameda, K. Kobayashi, Y. Koshio, M. Miura, S. Moriyama, M. Nakahata, S. Nakayama, Y. Obayashi, H. Ogawa, H. Sekiya, M. Shiozawa, Y. Suzuki, A. Takeda, Y. Takenaga, *et al.*

*PLB*

[Fourier analysis of the parametric resonance in neutrino oscillations](#)

Masafumi Koike, Toshihiko Ota, Masako Saito, Joe Sato

[Tri-bimaximal neutrino mixing and  \$\theta\_{13}\$](#)

S.F. King

*NIMA*

[High-pressure xenon gas electroluminescent TPC for 0- \$\nu\$   \$\beta\beta\$ -decay search](#)

David Nygren

*PRC*

[Neutron inelastic scattering and reactions in natural Pb as a background in neutrinoless](#)

[double- \$\beta\$ -decay experiments](#)

V. E. Guiseppe, M. Devlin, S. R. Elliott, N. Fotiades, A. Hime, D.-M. Mei, R. O. Nelson, D. V. Perepelitsa.

*PRD*

[Quantum field theory results for neutrino oscillations and new physics](#)

D. Delepine, Vannia Gonzalez Macias, Shaaban Khalil, G. Lopez Castro.

[Texture specific mass matrices with Dirac neutrinos and their implications](#)

Gulsheen Ahuja, Manmohan Gupta, Monika Randhawa, Rohit Verma.

[Addressing  \$\mu\$ - \$b\_\nu\$  and proton lifetime problems and active neutrino masses in a  \$U\(1\)^{\[prime\]}\$ -extended supergravity model](#)

R. S. Hundi, Sandip Pakvasa, Xerxes Tata.

[Gauge-Higgs unification, neutrino masses, and dark matter in warped extra dimensions](#)

Marcela Carena, Anibal D. Medina, Nausheen R. Shah, Carlos E. M. Wagner.

[Topological phase in two flavor neutrino oscillations](#)

Poonam Mehta.

[Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger Observatory](#)

J. Abraham, *et al.*

[Determination of the atmospheric neutrino flux and searches for new physics with AMANDA-II](#)

R. Abbasi, *et al.*

[Probing the birth of fast rotating magnetars through high-energy neutrinos](#)

Kohta Murase, Peter Mészáros, Bing Zhang.

[Multiangle instability in dense neutrino systems](#)

R. F. Sawyer.

[Solar neutrino limit on axions and keV-mass bosons](#)

Paolo Gondolo, Georg G. Raffelt.

[Neutrino oscillations in a Robertson-Walker universe with space-time foam](#)

J. Alexandre, K. Farakos, N. E. Mavromatos, P. Pasipoularides.

*PRL*

[Limits on a Muon Flux from Neutralino Annihilations in the Sun with the IceCube 22-String Detector](#)

R. Abbasi, *et al.*

[Quantum Coherence of Relic Neutrinos](#)

George M. Fuller, Chad T. Kishimoto.

[Measurement of  \$\nu\_\mu\$  and  \$\nu\_e\$  Events in an Off-Axis Horn-Focused Neutrino Beam](#)

P. Adamson, *et al.*

*arXiv*

[ICECUBE Sensitivity for Neutrino Flux from Fermi Blazars in Quiescent States](#)

M. Ribordy, A. Neronov.

[Growing neutrino cosmology](#)

Christof Wetterich, Valeria Pettorino.

[Status and first results of the ANTARES neutrino telescope](#)

G. Carminati.

[Achievements and Mirages in Uhecr and Neutrino Astronomy](#)

D.Fargion, D. D'Armiento.

[First Neutrino Point-Source Results From the 22-String IceCube Detector](#)

IceCube Collaboration, R. Abbasi.

[Recent Results of Point Source Searches with the IceCube Neutrino Telescope](#)

Erik Strahler, IceCube Collaboration.

[High Energy Neutrinos As A Test of Leptophilic Dark Matter](#)

Douglas Spolyar, Matthew Buckley, Katherine Freese, Dan Hooper, Hitoshi Murayama.

[Measurement of the double beta decay half-life of Nd-150 and search for neutrinoless decay modes with the NEMO-3 detector](#)

Nasim Fatemi-Ghomi.

[The first year of Borexino](#)

Borexino Collaboration.

[The T2K Neutrino Oscillation Experiment and Possible Future Projects](#)

N. C. Hastings.

[Simulation of the cosmic ray tau neutrino telescope \(CRTNT\) experiment](#)

J. L. Liu, S. S. Zhang, Z. Cao, H. H. He, M. A. Huang, T. C. Liu, G. Xiao, M. Zha, B. K. Zhang, Y. X. Bai, Y. Zhang.

[Results from the Borexino Experiment](#)

Timo Lewke.

[Review of  \$\theta\(13\)\$  and prospects for Double Chooz](#)

I. Gil-Botella.

[Status of the Double Chooz Experiment](#)

J. V. Dawson.

[Results from the Neutral Current Detector phase of the Sudbury Neutrino Observatory](#)

Ryan Martin.

[Overview of Neutrino Mixing Models and Ways to Differentiate among Them](#)

Carl H. Albright.

[Neutrino Mass: Mechanisms and Models](#)

Ernest Ma.

[An Analysis of Cosmic Neutrinos: Flavor Composition at Source and Neutrino Mixing Parameters](#)

Arman Esmaili, Yasaman Farzan.

[Resonant antineutrino induced electron capture with low energy bound-beta beams](#)

R. G. C. Oldeman, M. Meloni, B. Saitta.

[Theory of neutrino oscillations using condensed matter physics Including production process and energy-time uncertainty](#)

Harry J. Lipkin.

[Neutrino's Non-Standard Interactions: Another Eel under a Willow?](#)

Hisakazu Minakata.

[Supernova Neutrinos Detection On Earth](#)

Xin-Heng Guo, Ming-Yang Huang, Bing-Lin Young.

[Probing particle and nuclear physics models of neutrinoless double beta decay with different nuclei](#)

G.L. Fogli, E. Lisi, A.M. Rotunno.

[Paradoxes of neutrino oscillations](#)

Evgeny Kh. Akhmedov, Alexei Yu. Smirnov.

[Upward muon signals at neutrino detectors as a probe of dark matter properties](#)

Junji Hisano, Kazunori Nakayama, Masaki J.S. Yang.



**ASPERA**

**ASTROPARTICLE PUBLICATION REVIEW – May 2009**

[Scaling in the Neutrino Mass Matrix,  \$\mu\$ -tau Symmetry and the See-Saw Mechanism](#)

Anjan S. Joshipura, Werner Rodejohann.

[Theoretical Models of Neutrino Mixing: Recent Developments](#)

Guido Altarelli.

[Neutrino mass hierarchy determination for  \$\theta\_{13}=0\$](#)

Raj Gandhi, Pomita Ghoshal, Srubabati Goswami, S Uma Sankar.

[Reconciling dark matter and neutrino masses in mSUGRA](#)

Chiara Arina.

[The Role and Detectability of the Charm Contribution to Ultra High Energy Neutrino Fluxes](#)

Raj Gandhi, Abhijit Samanta, Atsushi Watanabe.

[The GENIE Neutrino Monte Carlo Generator](#)

C. Andreopoulos, A. Bell, D. Bhattacharya, F. Cavanna, J. Dobson, S. Dytman, H. Gallagher, P. Guzowski, R. Hatcher, P. Kehayias, A. Meregaglia, D. Naples, G. Pearce, A. Rubbia, M. Whalley, T. Yang.

[Collective flavour transitions of supernova neutrinos](#)

Irene Tamborra.

[New Mechanism for Neutrino Mass Generation and Triply Charged Higgs Bosons at the LHC](#)

K.S. Babu, S. Nandi, Zurab Tavartkiladze.

[Next Challenge in Neutrino Physics: the  \$\theta\_{13}\$  Angle](#)

Mauro Mezzetto.

[Non-unitary neutrino mixing and CP violation in the minimal inverse seesaw model](#)

Michal Malinsky, Tommy Ohlsson, Zhi-zhong Xing, He Zhang.

[CP Violation in Neutrino Oscillations without Antineutrinos: Energy Dependence](#)

Jose Bernabeu, Catalina Espinoza.

[Inverse Seesaw Neutrino Mass from Lepton Triplets in the U\(1\)<sub>Sigma</sub> Model](#)

Ernest Ma.

[Status of Neutrino Masses and Mixing in 2009](#)

Guido Altarelli.

[Resolution to neutrino masses, baryon asymmetry in leptogenesis and cosmic-ray anomalies](#)

Chuan-Hung Chen.

[Neutrino masses, muon g-2, dark matter, lithium problem, and leptogenesis at TeV-scale](#)



**ASPERA**

**ASTROPARTICLE PUBLICATION REVIEW – May 2009**

Chian-Shu Chen, Chung-Hsien Chou.

[Tri-bimaximal Neutrino Mixing from  \$A\(4\)\$  and  \$\theta\_{13} \sim \theta\_C\$](#)   
Yin Lin.

[SNO, KamLAND and neutrino oscillations:  \$\theta\(13\)\$](#)

G.L. Fogli, E. Lisi, A. Marrone, A. Palazzo, A.M. Rotunno.

[Spin flip of neutrinos with magnetic moment in core-collapse supernova](#)  
Oleg Lychkovskiy, Sergei Blinnikov.

[Neutrinos from the terrestrial passage of supersymmetric dark matter Q-balls](#)

Alexander Kusenko, Ian M. Shoemaker.

[A TeV scale model for neutrino mass, dark matter and baryon asymmetry](#)

Mayumi Aoki, Shinya Kanemura, Osamu Seto.

[Measuring the lower bound of neutrino mass at LHC in Higgs Triplet Model](#)

Hiroyuki Nishiura, Takeshi Fukuyama.

[Determination of the Neutrino Flavor Ratio at the Astrophysical Source](#)

Kwang-Chang Lai, Guey-Lin Lin, T. C. Liu.

[Neutrino Mixing Discriminates Geo-reactor Models](#)

S.T. Dye.

[Hadronic transport approach to neutrino nucleus scattering: the Giessen BUU model and its validation](#)

T. Leitner, O. Buss, U. Mosel.

[Status Report on Double Chooz](#)

A.Portaa, Double Chooz collaboration.

[Characterization of large area photomultipliers under low magnetic fields: design and performances of the magnetic shielding for the Double Chooz neutrino experiment](#)

E. Calvo, M. Cerrada, C. Fernández-Bedoya, I. Gil-Botella, C. Palomares, I. Rodríguez, F. Toral, A. Verdugo.

## **GRAVITATIONAL WAVES**

---

*JCAP*

[Gravitational waves from  \$p\$ -form inflation](#)

Tsutomu Kobayashi and Shuichiro Yokoyama

*PRD*

[Improved spacecraft radio science using an on-board atomic clock: Application to gravitational wave searches](#)



**ASPERA**

**ASTROPARTICLE PUBLICATION REVIEW – May 2009**

Massimo Tinto, George J. Dick, John D. Prestage, J. W. Armstrong.

[Precision calculations of the gravitational wave background spectrum from inflation](#)

Sachiko Kuroyanagi, Takeshi Chiba, Naoshi Sugiyama.

[Position and frequency shifts induced by massive modes of the gravitational wave background in alternative gravity](#)

Stefano Bellucci, Salvatore Capozziello, Mariafelicia De Laurentis, Valerio Faraoni.

[Higher-order spin effects in the amplitude and phase of gravitational waveforms emitted by inspiraling compact binaries: Ready-to-use gravitational waveforms](#)

K. G. Arun, Alessandra Buonanno, Guillaume Faye, Evan Ochsner.

*PRL*

[Breaking Strain of Neutron Star Crust and Gravitational Waves](#)

C. J. Horowitz, Kai Kadau.

*arXiv*

[Stacked Search for Gravitational Waves from the 2006 SGR 1900+14 Storm](#)

LIGO Scientific Collaboration.

[CMB Polarization Systematics, Cosmological Birefringence and the Gravitational Waves Background](#)

Luca Pagano, Paolo de Bernardis, Grazia De Troia, Giulia Gubitosi, Silvia Masi, Alessandro Melchiorri, Paolo Natoli, Francesco Piacentini, Gianluca Polenta.

[Probing the Core-Collapse Supernova Mechanism with Gravitational Waves](#)

C. D. Ott.

[Long-term evolution and gravitational wave radiation of neutron stars with differential rotation induced by r-modes](#)

Yun-Wei Yu, Xiao-Feng Cao, Xiao-Ping Zheng.

[Search for gravitational-wave bursts in the first year of the fifth LIGO science run](#)

LIGO Scientific Collaboration, B. P. Abbott.

[Multichannel matched filtering for spherical gravitational wave antennas](#)

Carlos Filipe Da Silva Costa, Stefano Foffa, Riccardo Sturani.

[Parametric instability induced scalar gravitational waves from a model pulsating neutron star](#)

Charles H.-T. Wang, Paolo M. Bonifacio, Robert Bingham, J. Tito Mendonca.

[Spontaneous breaking of symmetry of the gravitons of the long wave spectrum in the early Universe](#)

A. A. Grib.

[Increasing the sensitivity of future gravitational-wave detectors with double squeezed-input](#)

Farid Ya. Khalili, Haixing Miao, Yanbei Chen.

[Parameter estimation for signals from compact binary inspirals injected into LIGO data](#)

Marc van der Sluys, Ilya Mandel, Vivien Raymond, Vicky Kalogera, Christian Roever, Nelson Christensen.

[Einstein@Home search for periodic gravitational waves in early S5 LIGO data](#)

LIGO Scientific Collaboration.

[J-transform applied to the detection of Gravitational Waves: preliminary results](#)

Daniel Bessis, Luca Perotti.

[Interferometric detection of gravitational waves: the definitive test for General Relativity](#)

Christian Corda.

[Direct Detection of the Primordial Inflationary Gravitational Waves](#)

Wei-Tou Ni.

[Studying stellar binary systems with the Laser Interferometer Space Antenna using Delayed Rejection Markov chain Monte Carlo methods](#)

Miquel Trias, Alberto Vecchio, John Veitch.

[Wavelet entropy filter and cross-correlation of gravitational wave data](#)

R. Terenzi, R. Sturani.

[A burst search for gravitational waves from binary black holes](#)

C. Pankow, S. Klimenko, G. Mitselmakher, I. Yakushin, G. Vedovato, M. Drago, R. A. Mercer, P. Ajith.

[ADC non-linear errors correction in thermal diagnostics for the LISA mission](#)

J. Sanjuan, A. Lobo, J. Ramos-Castro.

[Extrapolating gravitational-wave data from numerical simulations](#)

Michael Boyle, Abdul H. Mroué.

[Search for Gravitational Waves from Low Mass Compact Binary Coalescence in 186 Days of LIGO's fifth Science Run](#)

LIGO Scientific Collaboration.

[Holographic Noise in Interferometers](#)

Craig J. Hogan.

[Sparse sky grid for the coherent detection of gravitational wave bursts](#)

Olivier Rabaste, Eric Chassande-Mottin, Archana Pai.

[Extension of the LTP temperature diagnostics to the LISA band: first results](#)

J Sanjuan, J Ramos-Castro, A Lobo.

[A Discussion on Massive Gravitons and Propagating Torsion in Arbitrary Dimensions](#)  
C.A Hernaski, A.A. Vargas-Paredes, J.A. Helayël-Neto.

[Pauli-Fierz Gravitons on Friedmann-Robertson-Walker Background](#)  
Luca Grisa, Lorenzo Sorbo.

## GENERAL

---

### *ApP*

[Distillation of liquid xenon to remove krypton](#)

K. Abe, J. Hosaka, T. Iida, M. Ikeda, K. Kobayashi, Y. Koshio, A. Minamino, M. Miura, S. Moriyama, M. Nakahata, Y. Nakajima, T. Namba, H. Ogawa, H. Sekiya, M. Shiozawa, Y. Suzuki, A. Takeda, Y. Takeuchi, K. Ueshima, M. Yamashita, *et al.*

### *JCAP*

[Non-thermal processes in standard big bang nucleosynthesis: II. Two-body disintegration of D, <sup>7</sup>Li, <sup>7</sup>Be nuclei by fast neutrons](#)

Victor T. Voronchev, Makoto Nakamura and Yasuyuki Nakao

[Genetic algorithms and supernovae type Ia analysis](#)

Charalampos Bogdanos and Savvas Nesseris

### *PLB*

[Constraining cosmological parameters with observational data including weak lensing effects](#)

Hong Li, Jie Liu, Jun-Qing Xia, Lei Sun, Zu-Hui Fan, Charling Tao, Andre Tilquin, Xinmin Zhang

[The cosmological constant and Pioneer anomaly from Weyl spacetimes and Mach's principle](#)

Carlos Castro

### *NIM A*

[Proceedings of the 9th International Workshop on Resistive Plate Chambers and Related Detectors - RPC08](#)

Tata Institute of Fundamental Research, Mumbai, India

13-16 February 2008

Edited by N.K. Mondal, S.P. Ratti and R. Santonico

[Ancient Greek lead findings in Ukraine](#)

F.A. Danevich, S.K. Kim, H.J. Kim, Y.D. Kim, V.V. Kobychov, A.B. Kostezh, B.N.

Kropivnyansky, M. Laubenstein, V.M. Mokina, S.S. Nagorny, A.S. Nikolaiko, S. Nisi, D.V. Poda, V.I. Tretyak, S.A. Voronov

[Fast scintillation light from CaMoO<sub>4</sub> crystals](#)

A.V. Veresnikova, B.K. Lubsandorzhev, I.R. Barabanov, P. Grabmayr, D. Greiner, J. Jochum, M. Knapp, C. Oßwald, R.V. Polshuk, F. Ritter, B.A.M. Shaibonov, Y.E. Vyatchin, G. Meierhofer

*PRC*

[Comment on “<sup>138</sup>La-<sup>138</sup>Ce-<sup>136</sup>Ce nuclear cosmochronometer of the supernova neutrino process”](#)

P. von Neumann-Cosel, A. Richter, A. Byelikov.

[Reply to “Comment on ‘<sup>138</sup>La-<sup>138</sup>Ce-<sup>136</sup>Ce nuclear cosmochronometer of supernova neutrino process’ ”](#)

T. Hayakawa, T. Shizuma, T. Kajino, K. Ogawa, H. Nakada.

*arXiv*

[The Effect of Different Type Ia Supernova Progenitors on Galactic Chemical Evolution](#)

F. Matteucci, E. Spitoni, S. Recchi, R. Valiante.

[Cepheid Calibrations of Modern Type Ia Supernovae: Implications for the Hubble Constant](#)

Adam G. Riess, Lucas Macri, Weidong Li, Hubert Lampeitl, Stefano Casertano, Henry C. Ferguson, Alexei V. Filippenko, Saurabh W. Jha, Ryan Chornock, Lincoln Greenhill, Max Mutchler, Mohan Ganeshalingham.

[First Stars -- Type Ib Supernovae Connection](#)

Keni'chi Nomoto, Masaomi Tanaka, Yasuomi Kamiya, Nozomu Tominaga, Keiichi Maeda.

[Supernova Kicks and Misaligned Be Star Binaries](#)

Rebecca G. Martin, Christopher A. Tout, J. E. Pringle.

[Accounting for the Foreground Contribution to the Dust Emission towards Kepler's Supernova Remnant](#)

H. L. Gomez, L. Dunne, R. Ivison, E. M. Reynoso, M. A. Thompson, B. Sibthorpe, S. A. Eales, T. M. DeLaney, S. Maddox, K. Isaak.

[Initiation of the detonation in the gravitationally confined detonation model of Type Ia supernovae](#)

Ivo R. Seitenzahl, Casey A. Meakin, Don Q. Lamb, James W. Truran.

[A new candidate supernova remnant G 70.5+1.9](#)

F. Mavromatakis, P. Boumis, J. Meaburn, A. Caulet.

[A revised Galactic supernova remnant catalogue](#)

D. A. Green.

[Circumstellar Shells in Absorption in Type Ia Supernovae](#)

K. J. Borkowski, J. M. Blondin, S. P. Reynolds.

[Relative frequencies of supernovae types: dependence on host galaxy magnitude, galactocentric radius and local metallicity](#)

S. Boissier, N. Prantzos.

[Luminosity Functions of Type Ia Supernovae and their Host Galaxies from the Sloan Digital Sky Survey](#)

N. Yasuda, M. Fukugita.

[A Pilot Search for Population III Supernova Candidates in the Spitzer/IRAC Dark Field](#)

Mark I Frost, Jason Surace, Leonidas A Moustakas, Jessica Krick.

[Development of high-gain gaseous photomultipliers for the visible spectral range](#)

A. V. Lyashenko, A. Breskin, R. Chechik, J. M. F. Dos Santos, F. D. Amaro, J. F. C. A. Veloso.

[Fingerprints of a Local Supernova](#)

Oliver Manuel, Hilton Ratcliffe.

[Calibration of Photomultiplier Arrays](#)

F. Neves, V. Chepel, D. Yu. Akimov, H. M. Araujo, E. J. Barnes, V. A. Belov, A. A. Burenkov, B. Currie, B. Edwards, C. Ghag, M. Horn, A. J. Hughes, G. E. Kalmus, A. S. Kobayakin, A. G. Kovalenko, V. N. Lebedenko, A. Lindote, M. I. Lopes, R. Luscher, K. Lyons, P. Majewski, A. StJ. Murphy, J. Pinto da Cunha, R. Preece, J. J. Quenby, P. R. Scovell, C. Silva, V. N. Solovov, N. J. T. Smith, P. F. Smith, V. N. Stekhanov, T. J. Sumner, C. Thorne, R. J. Walker.