

## DARK MATTER AND DARK ENERGY

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*ApP*

[A CF<sub>3</sub>I-based SDD prototype for spin-independent dark matter searches](#)

SIMPLE Collaboration: T. Morlat, M. Felizardo, F. Giuliani, T.A. Girard, G. Waysand, R.F. Payne, H.S. Miley, A.R. Ramos, J.G. Marques, R.C. Martins, D. Limagne

*JCAP*

[Ultra-cold weakly interacting massive particles: relics of non-standard pre-big-bang-nucleosynthesis cosmologies](#)

Graciela B Gelmini and Paolo Gondolo

[Apparent and average accelerations of the Universe](#)

Krzysztof Bolejko and Lars Andersson

[Phenomenology of hybrid scenarios of neutrino dark energy](#)

Stefan Antusch, Subinoy Das and Koushik Dutta

[On the internal consistency of holographic dark energy models](#)

R Horvat

[How the scalar field of unified dark matter models can cluster](#)

Daniele Bertacca, Nicola Bartolo, Antonaldo Diaferio and Sabino Matarrese

[Sterile neutrino dark matter in  \$B-L\$  extension of the standard model and galactic 511 keV line](#)

Shaaban Khalil and Osamu Seto

[WIMP dark matter, Higgs exchange and DAMA](#)

Sarah Andreas, Thomas Hambye and Michel H G Tytgat

[The three-loop Yang–Mills condensate dark energy model and its cosmological constraints](#)

S Wang, Y Zhang and T Y Xia

[Revealing dark matter substructure with anisotropies in the diffuse gamma-ray background](#)

Jennifer M Siegal-Gaskins

[Constraining sterile neutrino dark matter with phase space density observations](#)

D Gorbunov, A Khmelnitsky and V Rubakov

[Calibrating dark energy](#)

Roland de Putter and Eric V Linder

[The future of the universe in modified gravitational theories: approaching a finite-time future singularity](#)

Kazuharu Bamba, Shin'ichi Nojiri and Sergei D Odintsov

[Probing for cosmological parameters with LAMOST measurement](#)

Hong Li, Jun-Qing Xia, Zuhui Fan and Xinmin Zhang

*PLB*

[A dynamical approach to the cosmological constant](#)

Wen Fu Wang, Shu Zheng Yang

[The diffuse Galactic  \$\gamma\$ -rays from dark matter annihilation](#)

Xiao-Jun Bi, Juan Zhang, Qiang Yuan, Jian-Li Zhang, HongSheng Zhao

[Search for solar axions with mass around 1 eV using coherent conversion of axions into photons](#)

Y. Inoue, Y. Akimoto, R. Ohta, T. Mizumoto, A. Yamamoto, M. Minowa

[Parameterizing the effect of dark energy perturbations on the growth of structures](#)

Guillermo Ballesteros, Antonio Riotto

[Coupled oscillators as models of quintom dark energy](#)

M.R. Setare, E.N. Saridakis

[Modified Newton's gravity in Finsler space as a possible alternative to dark matter hypothesis](#)

Zhe Chang, Xin Li

[Reconstructing a string-inspired quintom model of dark energy](#)

Shuai Zhang, Bin Chen

[Latest supernovae constraints on  \$f\(R\)\$  cosmologies](#)

J. Santos, J.S. Alcaniz, F.C. Carvalho, N. Pires

*PRD*

[Search for gamma rays from dark matter annihilations around intermediate mass black holes with the HESS experiment](#)

F. Aharonian, *et al.*

[Neutralino dark matter in the minimal supersymmetric standard model with natural light Higgs sector](#)

R. N. Mohapatra, Nobuchika Okada, Hai-Bo Yu.

[Lepton flavors at the early CERN LHC experiments as the footprints of the dark matter producing mechanisms](#)

D. P. Hogan, D. Z. Besson, J. P. Ralston, I. Kravchenko, D. Seckel.

[Chemical potential and the nature of dark energy: The case of a phantom field](#)

J. A. S. Lima, S. H. Pereira.

[WMAP haze: Directly observing dark matter?](#)

Michael McNeil Forbes, Ariel R. Zhitnitsky.

[Dark matter dynamics in the galactic center](#)

Eugene Vasiliev, Maxim Zelnikov.

[Dynamics and constraints of the unified dark matter flat cosmologies](#)

Spyros Basilakos, Georgios Lukes-Gerakopoulos.

[Evolution of oscillating scalar fields as dark energy](#)

Sourish Dutta, Robert J. Scherrer.

[Interpreting the recent results on direct searches for dark matter particles in terms of relic neutralinos](#)

A. Bottino, F. Donato, N. Fornengo, S. Scopel.

[Decoding the mechanism for the origin of dark matter in the early universe using LHC data](#)

Daniel Feldman, Zuowei Liu, Pran Nath.

[Planck priors for dark energy surveys](#)

Pia Mukherjee, Martin Kunz, David Parkinson, Yun Wang.

[Slow-roll suppression of adiabatic instabilities in coupled scalar field-dark matter models](#)

Pier Stefano Corasaniti.

[Electroweak bremsstrahlung in dark matter annihilation](#)

Nicole F. Bell, James B. Dent, Thomas D. Jacques, Thomas J. Weiler.

[Search for dark matter annihilation in Draco with the Solar Tower Atmospheric Cherenkov Effect Experiment](#)

D. D. Driscoll, C. E. Covault, J. Ball, J. E. Carson, A. Jarvis, R. A. Ong, J. Zweerink, D. S. Hanna, J. Kildea, T. Lindner, C. Mueller, K. Ragan, P. Fortin, R. Mukherjee, D. A. Williams, D. M. Gingrich.

*MPLA*

[ACCELERATING UNIVERSE WITH MODIFIED FRIEDMANN EQUATION](#)

A. S. AL-RAWAF

*arXiv*

[Halo Mass Functions in Early Dark Energy Cosmologies](#)

Matthew J. Francis, Geraint F. Lewis, Eric V. Linder.



[Neutron Scattering Facility for Characterization of CRESST and EURECA Detectors at mK Temperatures](#)

J.-C. Lanfranchi, C. Ciemniak, C. Coppi, F. von Feilitzsch, A. Gütlein, H. Hagn, C. Isaila, J. Jochum, M. Kimmerle, S. Pfister, W. Potzel, W. Rau, S. Roth, K. Rottler, C. Sailer, S. Scholl, I. Usherov, W. Westphal.

[Dynamical Dark Energy simulations: high accuracy Power Spectra at high redshift](#)

Luciano Casarini, Andrea V. Maccio', Silvio A. Bonometto.

[New Measurement of the Relative Scintillation Efficiency of Xenon Nuclear Recoils Below 10 keV](#)

E. Aprile, L. Baudis, B. Choi, K. L. Giboni, K. E. Lim, A. Manalaysay, M. E. Monzani, G. Plante, R. Santorelli, M. Yamashita.

[Evolution of the Dark Matter Phase-Space Density Distributions of LCDM Halos](#)

Ileana Vass, Monica Valluri, Andrey Kravtsov, Stelios Kazantzidis.

[DMTPC: a new apparatus for directional detection of Dark Matter](#)

G. Sciola, A. Lee, J. Battat, T. Caldwell, B. Cornell, D. Dujmic, P. Fisher, S. Henderson, R. Lanza, J. Lopez, A. Kaboth, G. Kohse, J. Monroe, T. Sahin, R. Vanderspek, R. Yamamoto, H. Yegoryan, S. Alhen, D. Avery, K. Otis, A. Roccaro, H. Tomita, A. Dushkin, H. Wellenstein.

[Cryogenic Composite Detectors for the Dark Matter Experiments CRESST and EURECA](#)

S. Roth, C. Ciemniak, C. Coppi, F. v. Feilitzsch, A. Guetlein, C. Isaila, J.-C. Lanfranchi, S. Pfister, W. Potzel, W. Westphal.

[Dark Matter in the Galaxy Cluster CL J1226+3332 at Z=0.89](#)

M.J. Jee, J.A. Tyson.

[Dark Matter Equilibria in Galaxies and Galaxy Systems](#)

A. Lapi, A. Cavaliere.

[The PN.S Elliptical Galaxy Survey: the dark matter in NGC 4494](#)

N.R. Napolitano, A.J. Romanowsky, L. Coccato, M. Capaccioli, N.G. Douglas, E. Noordermeer, O. Gerhard, M. Arnaboldi, F. De Lorenzi, K. Kuijken, M.R. Merrifield, E. O'Sullivan, A. Cortesi, P. Das, K.C. Freeman.

[Indirect Dark Matter Signals](#)

W. de Boer.

[Forecasting Cosmological Constraints from Redshift Surveys](#)

Martin White, Yong-Seon Song, Will J. Percival.

[The Diversity and Similarity of Cold Dark Matter Halos](#)

Julio F. Navarro, Aaron Ludlow, Volker Springel, Jie Wang, Mark Vogelsberger, Simon D.M. White, Adrian Jenkins, Carlos S. Frenk, Amina Helmi.



[Muon Flux Limits for Majorana Dark Matter Particles](#)

Konstantin Belotsky, Maxim Khlopov, Chris Kouvaris.

[Parity Dependence in Strong Lens Systems as a Probe of Dark Matter Substructure](#)

Jacqueline Chen.

[Constraints on dark energy models from radial baryon acoustic scale measurements](#)

Lado Samushia, Bharat Ratra.

[Dynamical Centers and Non-Circular Motions in THINGS Galaxies: Implications for Dark Matter Halos](#)

C. Trachternach, W. J. G. de Blok, F. Walter, E. Brinks, R. C. Kennicutt Jr.

[High-resolution dark matter density profiles of THINGS dwarf galaxies: Correcting for non-circular motions](#)

Se-Heon Oh, W.J.G. de Blok, Fabian Walter, Elias Brinks, Robert C. Kennicutt Jr.

[The Fate of Substructures in Cold Dark Matter Haloes](#)

R. E. Angulo, C. G. Lacey, C. M. Baugh, C. S Frenk.

[Dark matter halo merger and accretion probabilities in the excursion set formalism](#)

Esfandiar Alizadeh, Benjamin Wandelt.

[The relation between stellar mass and weak lensing signal around galaxies: Implications for MOND](#)

Lanlan Tian, Henk Hoekstra, Hongsheng Zhao.

[Influence of Dark Matter on Light Propagation in Solar System Experiment](#)

Hideyoshi Arakida.

[Early Annihilation and Diffuse Backgrounds in  \$1/v\$  WIMP models](#)

Marc Kamionkowski, Stefano Profumo.

[Limits on Low-Mass WIMP Dark Matter with an Ultra-Low-Energy Germanium Detector at 220 eV Threshold](#)

Shin-Ted Lin, H. T. Wong, TEXONO Collaboration.

[Dark energy and neutrino mass constraints from weak lensing, supernova, and relative galaxy ages](#)

Yan Gong, Tong-Jie Zhang, Tian Lan, Xue-Lei Chen.

[The Dark Energy Camera \(DECam\)](#)

K. Honscheid, D. L. DePoy, DES Collaboration.

[The Via Lactea INCITE Simulation: Galactic Dark Matter Substructure at High Resolution](#)

M. Kuhlen, J. Diemand, P. Madau, M. Zemp.

[Alas, the dark matter structures were not that trivial](#)

Kasper B. Schmidt, Steen H. Hansen, Andrea V. Maccio'.

[Measurement of the dark matter velocity anisotropy profile in galaxy clusters](#)  
Ole Host.

[On Dark Energy and Dark Matter \(Part II\)](#)  
Shlomo Barak, Elia M. Leibowitz.

[The MOND limit from space-time scale invariance](#)  
Mordehai Milgrom.

[Model- and calibration-independent test of cosmic acceleration](#)  
Marina Seikel, Dominik J. Schwarz.

[Cosmic Constraint on Ricci Dark Energy Model](#)  
Lixin Xu, Wenbo Li, Jianbo Lu.

[Anatomy of the Bar Instability in Cuspy Dark Matter Halos](#)  
John Dubinski, Ingo Berentzen, Isaac Shlosman.

[Dark energy constraints and correlations with systematics from CFHTLS weak lensing, SNLS supernovae Ia and WMAP5](#)  
M. Kilbinger, K. Benabed, J. Guy, P. Astier, I. Tereno, L. Fu, D. Wraith, J. Coupon, Y. Mellier, C. Balland, F. R. Bouchet, T. Hamana, D. Hardin, H. J. McCracken, R. Pain, N. Regnault, M. Schultheiss, H. Yahagi.

[HI Structure Observations of Reionization and Dark Energy](#)  
Miguel F. Morales.

[Perspective of Galactic dark matter subhalo detection on Fermi/GLAST from the EGRET observation](#)  
Qiang Yuan, Xiao-Jun Bi, Juan Zhang.

[Constraints on WIMP Dark Matter from the High Energy PAMELA  \$\bar{p}/p\$  data](#)  
F. Donato, D. Maurin, P. Brun, T. Delahaye, P. Salati.

[Models for the Formation of spherical and toroidal Structures of Cold Dark Matter in the Milky Way](#)  
Hans-Otto Carmesin, Raphaël Errani.

[Cosmological Perturbations in Models of Coupled Dark Energy](#)  
Sirichai Chongchitnan.

[Impacts of WIMP dark matter upon stellar evolution: main-sequence stars](#)  
Pat Scott, Malcolm Fairbairn, Joakim Edsjö.

[Active Galactic Nuclei and Transformation of Dark Matter into Visible Matter](#)  
A. A. Grib, Yu. V. Pavlov.

[Model of interacting dark energy in the Kaluza-Klein theory of gravitation](#)

Mubasher Jamil.

[LISA as a dark energy probe](#)

K G Arun, Chandrakant Mishra, Chris Van Den Broeck, B R Iyer, B S Sathyaprakash, Siddhartha Sinha.

[Solar axion search with the CAST experiment](#)

CAST Collaboration, E. Arik, S. Aune, D. Autiero, K. Barth, A. Belov, B. Beltrán, S. Borghi, F. S. Boydag, H. Bräuninger, G. Cantatore, J. M. Carmona, S. A. Cetin, J. I. Collar, T. Dafni, M. Davenport, L. Di Lella, O.B. Dogan, C. Eleftheriadis, N. Elias, G. Fanourakis, E. Ferrer-Ribas, H. Fischer, J. Franz, J. Galán, E. Gazis, T. Gerasis, I. Giomataris, S. Gninenko, H. Gómez, M. Hasinoff, F. H. Heinsius, I. Hikmet, D. H. H. Hoffmann, I. G. Irastorza, J. Jacoby, K. Jakovčić, D. Kang, T. Karageorgopoulou, M. Karuza, K. Königsmann, R. Kotthaus, M. Krčmar, K. Koursouris, M. Kuster, B. Lakić, C. Lasseur, A. Liolios, A. Ljubičić, V. Lozza, G. Lutz, G. Luzón, D. Miller, J. Morales, T. Niinikoski, A. Nordt, A. Ortiz, T. Papaevangelou.

[Antimatter and Dark Matter search in space with AMS-02](#)

Francesca R. Spada.

[Probing eV-scale axions with CAST](#)

CAST Collaboration, E. Arik, S. Aune, D. Autiero, K. Barth, A. Belov, B. Beltrán, S. Borghi, G. Bourlis, F. S. Boydag, H. Bräuninger, J. M. Carmona, S. Cebrián, S. A. Cetin, J. I. Collar, T. Dafni, M. Davenport, L. Di Lella, O. B. Dogan, C. Eleftheriadis, N. Elias, G. Fanourakis, E. Ferrer-Ribas, H. Fischer, P. Friedrich, J. Franz, J. Galán, T. Gerasis, I. Giomataris, S. Gninenko, H. Gómez, R. Hartmann, M. Hasinoff, F. H. Heinsius, I. Hikmet, D. H. H. Hoffmann, I. G. Irastorza, J. Jacoby, K. Jakovčić, D. Kang, K. Königsmann, R. Kotthaus, M. Krčmar, K. Koursouris, M. Kuster, B. Lakić, C. Lasseur, A. Liolios, A. Ljubičić, G. Lutz, G. Luzón, D. Miller, J. Morales, T. Niinikoski, A. Nordt, A. Ortiz, T. Papaevangelou, M. J. Pivovarov.

[Constraints on chameleons and axion-like particles from the GammeV experiment](#)

Jason H. Steffen, GammeV collaboration.

[Lightest Neutralino Mass in the MNSSM](#)

S. Hesselbach, D. J. Miller, G. Moortgat-Pick, R. Nevzorov, M. Trusov.

[A Theory of Dark Matter](#)

Nima Arkani-Hamed, Douglas P. Finkbeiner, Tracy R. Slatyer, Neal Weiner.

[LHC Signals for a SuperUnified Theory of Dark Matter](#)

Nima Arkani-Hamed, Neal Weiner.

[Nuclear scattering of dark matter coupled to a new light scalar](#)

Douglas P. Finkbeiner, Tracy R. Slatyer, Neal Weiner.

[Discriminating dark matter candidates using direct detection](#)

G. Belanger, E. Nezri, A. Pukhov.

[Updated Axion CDM energy density](#)

Ji-Haeng Huh.

[Astrophysical Signatures of Secluded Dark Matter](#)

Maxim Pospelov, Adam Ritz.

[Neutralino Dark Matter in an SO\(10\) Model with Two-step Intermediate Scale Symmetry Breaking](#)

Manuel Drees, Ju Min Kim.

[Positron/Gamma-Ray Signatures of Dark Matter Annihilation and Big-Bang Nucleosynthesis](#)

Junji Hisano, Masahiro Kawasaki, Kazunori Kohri, Kazunori Nakayama.

[Supersymmetric superheavy dark matter](#)

V. Berezinsky, M. Kachelriess, M. Aa. Solberg.

[Search for Dark Matter](#)

Graciela B. Gelmini.

[Cosmic rays from Leptonic Dark Matter](#)

Chuan-Ren Chen, Fuminobu Takahashi.

[Two component dark matter](#)

Malcolm Fairbairn, Jure Zupan.

[Gamma rays from the annihilation of singlet scalar dark matter](#)

Carlos E. Yaguna.

[Photon & Axion Oscillation In a Magnetized Medium: A Covariant Treatment](#)

Avijit K. Ganguly, Pankaj Jain, Subhayan Mandal.

[Dark Energy and Dark Matter in General Relativity with local scale invariance](#)

Pavan Kumar Aluri, Pankaj Jain, Naveen K. Singh.

[Dark Matter in B-L Extended MSSM Models](#)

S. Khalil, H. Okada.

[Dark Matter and Dark Radiation](#)

Lotty Ackerman, Matthew R. Buckley, Sean M. Carroll, Marc Kamionkowski.

[Slightly Non-Minimal Dark Matter in PAMELA and ATIC](#)

Ann E. Nelson, Christopher Spitzer.

[Dark Matter Annihilation Signals: The Importance of Radiative Corrections](#)

Torsten Bringmann.

[Dark Matter through the Axion Portal](#)

Yasunori Nomura, Jesse Thaler.

[Dark Matter Related to Axion and Axino](#)

Jihn E. Kim.

[An Effective Theory of Dirac Dark Matter](#)

Roni Harnik, Graham D. Kribs.

[Modified gravity as realistic candidate for dark energy, inflation and dark matter](#)

Shin'ichi Nojiri, Sergei D. Odintsov.

[From Axions to Other WISPs](#)

Andreas Ringwald.

[Correspondence between Holographic and Gauss-Bonnet dark energy models](#)

M. R. Setare, E. N. Saridakis.

[Construction of cosmologically viable  \$f\(G\)\$  dark energy models](#)

Antonio De Felice, Shinji Tsujikawa.

[DMTPC-10L: Direction-Sensitive Dark Matter Detector Prototype](#)

D. Dujmic, P. Fisher, R. Lanza, J. Lopez, A. Kaboth, G. Kohse, J. Monroe, R. Vanderspek, G. Sciolla, R. Yamamoto, S. Ahlen, K. Otis, A. Roccaro, H. Tomita, N. Skvorodnev, H. Wellenstein.

[Dark matter, dark energy and gravitational proprieties of antimatter](#)

Dragan Slavkov Hajdukovic.

[Unified Description of Dark Energy and Dark Matter](#)

Walter Petry.

[Some Practical Applications of Dark Matter Research](#)

L. Stodolsky.

[Recent updates on the ArDM project: A Liquid Argon TPC for Dark Matter Detection](#)

Vittorio Boccone.

## **COSMIC RAYS**

---

*ApP*

[Measurements of cosmic-ray secondary nuclei at high energies with the first flight of the CREAM balloon-borne experiment](#)

H.S. Ahn, P.S. Allison, M.G. Bagliesi, J.J. Beatty, G. Bigongiari, P.J. Boyle, T.J. Brandt, J.T. Childers, N.B. Conklin, S. Coutu, M.A. Duvernois, O. Ganel, J.H. Han, H.J. Hyun, J.A. Jeon, K.C. Kim, J.K. Lee, M.H. Lee, L. Lutz, P. Maestro, *et al.*

*JCAP*

[Cosmic ray nuclei, antiprotons and gamma rays in the galaxy: a new diffusion model](#)

Carmelo Evoli, Daniele Gaggero, Dario Grasso and Luca Maccione

[Implications of the cosmic ray spectrum for the mass composition at the highest energies](#)

D Allard, N G Busca, G Decerprit, A V Olinto and E Parizot

*NIM A*

[First flight data from the PAMELA spectrometer](#)

D. Fedele, O. Adriani, L. Bonechi, M. Bongi, S. Bottai, G. Castellini, M. Grandi, P. Papini, S. Ricciarini, E. Taddei, E. Vannuccini

[The AMS silicon tracker: Construction and performance](#)

P. Zuccon and On behalf of the AMS Tracker collaboration

*PRL*

[Muon Production in Extended Air Shower Simulations](#)

T. Pierog, K. Werner.

*PRD*

[Limits on neutron Lorentz violation from the stability of primary cosmic ray protons](#)

Brett Altschul.

*arXiv*

[Non-thermal radiation from molecular clouds illuminated by cosmic rays from nearby supernova remnants](#)

Stefano Gabici, Sabrina Casanova, Felix A. Aharonian.

[Gamma ray emission from SNR RX J1713.7-3946 and the origin of galactic cosmic rays](#)

G. Morlino, E. Amato, P. Blasi.

[Generalized Maximum Likelihood Method for Ultrahigh Energy Cosmic Rays](#)

Glennys R. Farrar.

[VERITAS Observations of the Arrival Directions of the Highest Energy Cosmic Rays](#)

J. Holder, VERITAS Collaboration.

[Section on Supernova remnants and cosmic rays of the White Paper on the Status and Future of Ground-based Gamma-ray Astronomy](#)

M. Pohl, A. Abdo, A. Atoyan, M. Baring, J. Beacom, R. Blandford, Y. Butt, A. Bykov, D. Ellison, S. Funk, F. Halzen, E. Hays, B. Humensky, T. Jones, P. Kaaret, D. Kieda, S. LeBohec, P. Meszaros, I. Moskalenko, P. Slane, A. Strong, S. Wakely.



**ASPERA**

**ASTROPARTICLE PUBLICATION REVIEW – Oct. 2008**

[Non-thermal emission from Galaxy Clusters and future observations with the FERMI gamma-ray telescope and LOFAR](#)

G. Brunetti.

[MAXI, LOFAR and Microquasars - All-sky monitoring of X-ray binaries in X-rays and radio](#)

Rob Fender.

[Prompt TeV Emission from Cosmic Rays Interacting with Stellar Wind in Gamma Ray Bursts](#)

Soebur Razzaque, Olga Mena, Charles D. Dermer.

[Pulsars as the Sources of High Energy Cosmic Ray Positrons](#)

Dan Hooper, Pasquale Blasi, Pasquale Dario Serpico.

[Implications of Ultra-High-Energy Cosmic Rays for Transient Sources in the Auger Era](#)

Kohta Murase, Hajime Takami.

[Effect of multiple reusing of simulated air showers in detector simulations](#)

A. D. Supanitsky, G. Medina-Tanco.

[Propagation of ultra high energy cosmic rays](#)

Todor Stanev.

[The Elemental Composition of High-Energy Cosmic Rays: Measurements with TRACER](#)

P.J. Boyle.

[The rise and fall of top-down models as main UHECR sources](#)

M. Kachelriess.

[Cosmic Ray Results from the IceTop Air Shower Array](#)

Hermann Kolanoski, IceCube Collaboration.

[Status report of the NuMoon experiment](#)

O. Scholten, S. Buitink, J. Bacelar, R. Braun, A.G. de Bruyn, H. Falcke, K. Singh, B. Stappers, R.G. Strom, R. al Yahyaoui.

[First Results from the PAMELA Space Mission](#)

M. Boezio, V. Bonvicini, G. Jerse, E. Mocchiutti, A. Vacchi, G. Zampa, N. Zampa, O. Adriani, M. Bongi, L. Bonechi, S. Bottai, D. Fedele, P. Papini, S. B. Ricciarini, P. Spillantini, E. Taddei, E. Vannuccini, *et al.*

[Multiwavelength Signatures of Cosmic Ray Acceleration by Young Supernova Remnants](#)

Jacco Vink.

[Multi-Tev Gamma-Ray Observation from the Crab Nebula Using the Tibet-III Air Shower Array Finely Tuned by the Cosmic-Ray Moon's Shadow](#)

M. Amenomori.

[Capability of the PAMELA Time-Of-Flight to identify light nuclei: results from a beam test calibration](#)

D. Campana, R. Carbone, G. De Rosa, G. Osteria, S. Russo, W. Menn, V. Malvezzi, L. Marcelli, P. Picozza, R. Sparvoli, L. Bonechi, M. Bongi, S. Ricciarini, E. Vannuccini.

[The Pierre Auger Cosmic Ray Observatory, Comments on Recent Results](#)

Carlos Hojvat, Pierre Auger Collaboration.

[Spati-temporal distribution of cascade particles below the maximum of EAS development with  \$E \geq 10^{17} \text{eV}\$](#)

Stanislav Knurenko, Zim Petrov, Yuri Yegorov, Nikolai Dyachkovsky.

[Probing the Galactic cosmic ray flux with submillimeter and gamma ray data](#)

S. Casanova, S. Gabici, F. A. Aharonian, K. Torii, Y. Fukui, T. Onishi, H. Yamamoto, A. Kawamura.

[Non-linear Study of Bell's Cosmic Ray Current-driven Instability](#)

Mario A. Riquelme, Anatoly Spitkovsky.

[Ultra High Energy Cosmic Rays from earth-based observatories](#)

Sergio Petrerá.

[Two years of flight of the Pamela experiment: results and perspectives](#)

M. Casolino, Pamela Collaboration.

[Constraints on WIMP Dark Matter from the High Energy PAMELA  \$\bar{p}/p\$  data](#)

F. Donato, D. Maurin, P. Brun, T. Delahaye, P. Salati.

[The PAMELA Positron Excess from Annihilations into a Light Boson](#)

Ilias Cholis, Douglas P. Finkbeiner, Lisa Goodenough, Neal Weiner.

[The observation of Extensive Air Showers from Space](#)

M. Pallavicini, R. Pesce, A. Petrolini, A. Thea.

[Cosmic rays from Leptonic Dark Matter](#)

Chuan-Ren Chen, Fuminobu Takahashi.

[Cosmic-ray knee and diffuse gamma,  \$e^+\$  and  \$p\bar{p}\$  fluxes from collisions of cosmic rays with dark matter](#)

Manuel Masip, Iacopo Mastromatteo.

[On the possible causes of a rise with energy of the cosmic ray positron fraction](#)

Pasquale Dario Serpico.

[Slightly Non-Minimal Dark Matter in PAMELA and ATIC](#)

Ann E. Nelson, Christopher Spitzer.

[PAMELA Positron Excess as a Signal from the Hidden Sector](#)

Daniel Feldman, Zuowei Liu, Pran Nath.

## **X and GAMMA RAYS**

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*ApP*

[Simulation of imaging atmospheric Cherenkov telescopes with CORSIKA and sim\\_telarray](#)

Konrad Bernlöhr

*JCAP*

[Ultra-cold weakly interacting massive particles: relics of non-standard pre-big-bang-nucleosynthesis cosmologies](#)

Graciela B Gelmini and Paolo Gondolo

[Cosmic ray nuclei, antiprotons and gamma rays in the galaxy: a new diffusion model](#)

Carmelo Evoli, Daniele Gaggero, Dario Grasso and Luca Maccione

[Revealing dark matter substructure with anisotropies in the diffuse gamma-ray background](#)

Jennifer M Siegal-Gaskins

*NIM A*

[Acceleration of atmospheric Cherenkov telescope signal processing to real-time speed with the Auto-Pipe design system](#)

Eric J. Tyson, James Buckley, Mark A. Franklin, Roger D. Chamberlain

[Monte Carlo studies of geomagnetic field effects on the imaging air Cherenkov technique for the MAGIC telescope site](#)

S.C. Commichau, A. Biland, J.L. Contreras, R. de los Reyes, A. Moralejo, J. Sitarek, D. Sobczyńska and On behalf of the MAGIC collaboration

[Silicon detectors in space for  \$\gamma\$ -ray astroparticle physics](#)

A. Morselli

*PLB*

[The diffuse Galactic  \$\gamma\$ -rays from dark matter annihilation](#)

Xiao-Jun Bi, Juan Zhang, Qiang Yuan, Jian-Li Zhang, HongSheng Zhao

[Probing quantum gravity using photons from a flare of the active galactic nucleus Markarian 501 observed by the MAGIC telescope](#)

MAGIC Collaboration, J. Albert, E. Aliu, H. Anderhub, L.A. Antonelli, P. Antoranz, M. Backes, C. Baixeras, J.A. Barrio, H. Bartko, D. Bastieri, J.K. Becker, W. Bednarek, K. Berger, E. Bernardini, C. Bigongiari, A. Biland, R.K. Bock, G. Bonnoli, P. Bordas, *et al.*

*PRD*

[Search for gamma rays from dark matter annihilations around intermediate mass black holes with the HESS experiment](#)

F. Aharonian, *et al.*

[Search for GLAST gamma ray burst triggers due to particle precipitation in the South Atlantic Anomaly](#)

C. R. A. Augusto, C. E. Navia, K. H. Tsui.

*arXiv*

[Discovery of High-Energy Gamma-Ray Pulsations from PSR J2021+3651 with AGILE](#)

J. P. Halpern, F. Camilo, A. Giuliani, E. V. Gotthelf, M. A. McLaughlin, R. Mukherjee, A. Pellizzoni, S. M. Ransom, M. S. E. Roberts, M. Tavani.

[Gamma ray emission from SNR RX J1713.7-3946 and the origin of galactic cosmic rays](#)

G. Morlino, E. Amato, P. Blasi.

[Long lived central engines in Gamma Ray Bursts](#)

G. Ghisellini.

[Hadronic Production of Gamma Rays and Starburst Galaxies](#)

Niklas Karlsson.

[VERITAS Blazar Observations - Recent Results](#)

Peter Cogan, VERITAS Collaboration.

[VERITAS Observations of the BL Lac Object 1ES 1218+304](#)

Pascal Fortin, VERITAS Collaboration.

[VERITAS Observations of the Coma Cluster of Galaxies](#)

J. S. Perkins, VERITAS Collaboration.

[The luminosity of GRB afterglows as distance estimator](#)

B. Gendre, A. Galli, M. Boer.

[The Status and future of ground-based TeV gamma-ray astronomy. A White Paper prepared for the Division of Astrophysics of the American Physical Society](#)

J. Buckley, K. Byrum, B. Dingus, A. Falcone, P. Kaaret, H. Krawczynski, M. Pohl, V. Vassiliev, D.A. Williams.

[VERITAS Observations of the Arrival Directions of the Highest Energy Cosmic Rays](#)

J. Holder, VERITAS Collaboration.



#### [Status of the VERITAS Observatory](#)

J. Holder, V.A. Acciari, E. Aliu, T. Arlen, M. Beilicke, W. Benbow, S.M. Bradbury, J.H. Buckley, V. Bugaev, Y. Butt, K.L. Byrum, A. Cannon, O. Celik, A. Cesarini, L. Ciupik, Y.C.K. Chow, P. Cogan, P. Colin, W. Cui, M.K. Daniel, T. Ergin, A.D. Falcone, S.J. Fegan, J.P. Finley, G. Finnegan, P. Fortin, L.F. Fortson, A. Furniss, G.H. Gillanders, J. Grube, R. Guenette, G. Gyuk, D. Hanna, E. Hays, D. Horan, C.M. Hui, T.B. Humensky, A. Imran, P. Kaaret, N. Karlsson, M. Kertzman, D.B. Kieda, J. Kildea, A. Konopelko, H. Krawczynski, F. Krennrich, M.J. Lang, S. LeBohec, G. Maier, A. McCann, M. McCutcheon, P. Moriarty, R. Mukherjee, T. Nagai, J. Niemiec, R.A. Ong, D. Pandel, J.S. Perkins, M. Pohl, J. Quinn, K. Ragan, L.C. Reyes, P.T. Reynolds, H.J. Rose, M. Schroedter, G.H. Sembroski, A.W. Smith, D. Steele.

#### [Observation of Galactic Gamma-ray Sources with VERITAS](#)

G.Maier, VERITAS collaboration.

#### [Gamma Ray Burst Section of the White Paper on the Status and Future of Ground-based TeV Gamma-ray Astronomy](#)

A. D. Falcone, D. A. Williams, M. G. Baring, R. Blandford, J. Buckley, V. Connaughton, P. Coppi, C. Dermer, B. Dingus, C. Fryer, N. Gehrels, J. Granot, D. Horan, J. I. Katz, K. Kuehn, P. Meszaros, J. Norris, P. Saz Parkinson, A. Pe'er, E. Ramirez-Ruiz, S. Razzaque, X. Y. Wang, B.Zhang.

#### [Sites for Gamma-ray Astronomy in Argentina](#)

A. C. Rovero, G. E. Romero, I. Allekotte, X. Bertou, E. Colombo, A. Etchegoyen, B. Garcia, D. Garcia-Lambas, H. Levato, M. C. Medina, H. Muriel, P. Recabarren.

#### [VERITAS Observations of Mgr0 J1908+06/Hess J1908+063](#)

John E Ward, VERITAS collaboration.

#### [Multi-wavelength Observations of LS I +61 303 with VERITAS, Swift and RXT E: 2006-2008](#)

A.W. Smith, VERITAS collaboration.

#### [Section on Supernova remnants and cosmic rays of the White Paper on the Status and Future of Ground-based Gamma-ray Astronomy](#)

M. Pohl, A. Abdo, A. Atoyan, M. Baring, J. Beacom, R. Blandford, Y. Butt, A. Bykov, D. Ellison, S. Funk, F. Halzen, E. Hays, B. Humensky, T. Jones, P. Kaaret, D. Kieda, S. LeBohec, P. Meszaros, I. Moskalenko, P. Slane, A. Strong, S. Wakely.

#### [Galactic Compact Objects Section of the White Paper on the Status and Future of Ground-based TeV Gamma-ray Astronomy](#)

P. Kaaret, A. A. Abdo, J. Arons, M. Baring, W. Cui, B. Dingus, J. Finley, S. Funk, S. Heinz, B. Gaensler, A. Harding, E. Hays, J. Holder, D. Kieda, A. Konopelko, S. LeBohec, A. Levinson, I. Moskalenko, R. Mukherjee, R. Ong, M. Pohl, K. Ragan, P. Slane, A. Smith, D. Torres.

#### [Non-thermal emission from Galaxy Clusters and future observations with the FERMI gamma-ray telescope and LOFAR](#)

G. Brunetti.

[VERITAS Studies of the Supernova Remnants Cas A and IC 443](#)

Thomas Brian Humensky, VERITAS Collaboration.

[Hadronic versus leptonic origin of the gamma-ray emission from Supernova Remnant RX J1713.6-3946](#)

E.G. Berezhko, H.J. Völk.

[Scientific Highlights from Observations of Active Galactic Nuclei with the MAGIC Telescope](#)

Robert Wagner, MAGIC Collaboration.

[Prior Emission Model for X-ray Plateau Phase of Gamma-Ray Burst Afterglows](#)

Ryo Yamazaki.

[The Gamma-Ray-Flux Probability Distribution Function from Galactic Halo Substructure](#)

Samuel K. Lee, Shin'ichiro Ando, Marc Kamionkowski.

[Prompt TeV Emission from Cosmic Rays Interacting with Stellar Wind in Gamma Ray Bursts](#)

Soebur Razzaque, Olga Mena, Charles D. Dermer.

[Inspecting absorption in the spectra of extra-galactic gamma-ray sources for insight on Lorentz invariance violation](#)

Uri Jacob, Tsvi Piran.

[Neutrino alert systems for Gamma Ray Bursts and Transient astronomical Sources](#)

Stephane Basa, Damien Dornic, Gabrielle Lelaizant, Bruce Gendre, Jose Busto, Alain Mazure.

[Individual GRB sensitivity of a cubic-kilometer deep-sea neutrino telescope KM3NeT](#)

D. Dornic, G. Lelaizant.

[High-Resolution Timing Observations of Spin-Powered Pulsars with the AGILE Gamma-Ray Telescope](#)

A. Pellizzoni, M. Pilia, A. Possenti, F. Fornari, P. Caraveo, E. Del Monte, S. Mereghetti, M. Tavani, A. Argan, A. Trois, M. Burgay, A. Chen, I. Cognard, E. Costa, N. D'Amico, P. Esposito, Y. Evangelista, M. Feroci, F. Fuschino, A. Giuliani, J. Halpern, G. Hobbs, A. Hotan, S. Johnston, M. Kramer, F. Longo, R. N. Manchester, M. Marisaldi, J. Palfreyman, P. Weltevrede, G. Barbiellini, F. Boffelli, A. Bulgarelli, P. W. Cattaneo, V. Cocco, F. D'Ammando, G. De Paris, G. Di Cocco, I. Donnarumma, M. Fiorini, T. Froyland, M. Galli, F. Gianotti, A. Harding, C. Labanti, I. Lapshov, F. Lazzarotto, P. Lipari, F. Mauri, A. Morselli, L. Pacciani, F. Perotti, P. Picozza, M. Prest, G. Pucella, M. Rapisarda, A. Rappoldi, P. Soffitta, M. Trifoglio, E. Vallazza, S. Vercellone, V. Vittorini, A. Zambra.

[X-Ray Observation of Very High Energy Gamma-Ray Source, HESS J1745-303, with Suzaku](#)

Aya Bamba, Ryo Yamazaki, Kazunori Kohri, Hironori Matsumoto, Stefan Wagner, Gerd Puehlhofer, Karl Kosack.

[On the Origin of TeV Gamma-ray Emission from HESS J1834-087](#)

R. Mukherjee, E. V. Gotthelf, J. P. Halpern.

[Pulsar Timing for the Fermi Gamma-ray Space Telescope](#)

D. A. Smith, L. Guillemot, F. Camilo, I. Cognard, D. Dumora, C. Espinoza, P. C. C. Freire, E. V. Gotthelf, A. K. Harding, G. B. Hobbs, S. Johnston, V. M. Kaspi, M. Kramer, M. A. Livingstone, A. G. Lyne, R. N. Manchester, F. E. Marshall, M. A. McLaughlin, A. Noutsos, S. M. Ransom, M. S. E. Roberts, R. W. Romani, B. W. Stappers, G. Theureau, D. J. Thompson, S. E. Thorsett, N. Wang, P. Weltevrede.

[AGILE detection of intense gamma-ray emission from the blazar PKS 1510-089](#)

G. Pucella, V. Vittorini, F. D'Ammando, M. Tavani, C. M. Raiteri, M. Villata, A. Argan, G. Barbiellini, F. Boffelli, A. Bulgarelli, P. Caraveo, P. W. Cattaneo, A. W. Chen, V. Cocco, E. Costa, E. Del Monte, G. De Paris, G. Di Cocco, I. Donnarumma, Y. Evangelista, M. Feroci, M. Fiorini, T. Froyland, F. Fuschino, M. Galli, F. Gianotti, A. Giuliani, C. Labanti, I. Lapshov, F. Lazzarotto, P. Lipari, F. Longo, M. Marisaldi, S. Mereghetti, A. Morselli, L. Pacciani, A. Pellizzoni, F. Perotti, P. Picozza, M. Prest, M. Rapisarda, A. Rappoldi, P. Soffitta, M. Trifoglio, A. Trois, E. Vallazza, S. Vercellone, A. Zambra, D. Zanello, L. A. Antonelli, S. Colafrancesco, S. Cutini, D. Gasparrini, P. Giommi, C. Pittori, F. Verrecchia, L. Salotti, M. F. Aller, H. D. Aller, D. Carosati, V. M. Larionov.

[MAXI and GLAST Studies of Jets in Active Galaxies](#)

Greg Madejski, Jun Kataoka, Marek Sikora.

[VERITAS Distant Laser Calibration and Atmospheric Monitoring](#)

C. M. Hui, VERITAS Collaboration.

[Design and construction of the Mini-Calorimeter of the AGILE satellite](#)

C. Labanti, M. Marisaldi, F. Fuschino, M. Galli, A. Argan, A. Bulgarelli, G. Di Cocco, F. Gianotti, M. Tavani, M. Trifoglio.

[Cosmological Constraints from calibrated Yonetoku and Amati relation implies Fundamental plane of Gamma-ray bursts](#)

Ryo Tsutsui, Takashi Nakamura, Daisuke Yonetoku, Toshio Murakami, Yoshiki Kodama, Keitaro Takahashi.

[VERITAS Observations of Extragalactic Non-Blazars](#)

C. M. Hui, VERITAS Collaboration.

[Detection of the ultra-high z short GRB 080913 and its implications on progenitors and energy extraction mechanisms](#)



D. Perez-Ramirez, A. de Ugarte Postigo, J. Gorosabel, M. A. Aloy, M. A. Guerrero, J. P. Osborne, K. L. Page, R. S. Warwick, I. Horvath, P. Veres, M. Jelinek, P. Kubanek, S. Guziy, M. Bremer, J. M. Winters, A. J. Castro-Tirado.

[AGILE observation of a gamma-ray flare from the blazar 3C 279](#)

A. Giuliani, F. D'Ammando, S. Vercellone, V. Vittorini, A. W. Chen, I. Donnarumma, L. Pacciani, G. Pucella, A. Trois, A. Bulgarelli, F. Longo, M. Tavani, G. Tosti, D. Impiombato, A. Argan, G. Barbiellini, F. Boelli, P. A. Caraveo, P. W. Cattaneo, V. Cocco, E. Costa, E. Del Monte, G. De Paris, G. Di Cocco, Y. Evangelista, M. Feroci, M. Fiorini, F. Fornari, T. Froyland, F. Fuschino, M. Galli, F. Gianotti, C. Labanti, Y. Lapshov, F. Lazzarotto, P. Lipari, M. Marisaldi, S. Mereghetti, A. Morselli, A. Pellizzoni, F. Perotti, P. Picozza, M. Prest, M. Rapisarda, A. Rappoldi, P. Soffitta, M. Trifoglio, E. Vallazza, A. Zambra, D. Zanello, S. Cutini, D. Gasparrini, C. Pittori, B. Preger, P. Santolamazza, F. Verrecchia, P. Giommi, S. Colafrancesco, L. Salotti.

[Gamma-Ray Burst afterglow scaling coefficients for general density profile via post-processing of blastwave solutions](#)

H.J. van Eerten, R.A.M.J. Wijers.

[Gamma-Ray Burst at the extreme: "the naked-eye burst" GRB 080319B](#)

P.R. Wozniak, W.T. Vestrand, A.D. Panaitescu, J.A. Wren, H.R. Davis, R.R. White.

[Synchrotron Emissions in GRB Prompt Phase Using a Semi Leptonic and Hadronic Model](#)

S. Guiriec, D. Gialis, G. Pelletier, F. Piron.

[Discovery of gamma-ray emission from the shell-type supernova remnant RCW 86 with H.E.S.S.](#)

HESS Collaboration, F. Aharonian.

[Gamma rays from star-forming regions](#)

Gustavo E. Romero.

[TeV Gamma Rays from Geminga and the Origin of the GeV Positron Excess](#)

Hasan Yuksel, Matthew D. Kistler, Todor Stanev.

[Gamma Ray burst afterglows in the infrared: a standard candle?](#)

B. Gendre, S. Pelisson, M. Boer, S. Basa, A. Mazure.

[Dust Extinction in High-z Galaxies with GRB Afterglow Spectroscopy - The 2175Å Feature at z=2.45](#)

Á. Elíasdóttir, J. P. U. Fynbo, J. Hjorth, C. Ledoux, D. Watson, A. C. Andersen, D. Malesani, P. M. Vreeswijk, J. X. Prochaska, J. Sollerman, A. O. Jaunsen.

[Prompt GeV Emission from Residual Collisions in GRB Outflows](#)

Zhuo Li.

[Deceleration of arbitrarily magnetized GRB ejecta: the complete evolution](#)

P. Mimica, D. Giannios, M.A. Aloy.

[A Universal Central Engine Hypothesis for Short and Long GRBs](#)

David Eichler, Dafne Guetta, Hadar Manis.

[GeV Emission from neutron-rich internal shocks of some long Gamma-ray Bursts](#)

Rongrong Xue, Yizhong Fan, Daming Wei.

[Microsecond Time Resolution Optical Photometry using a H.E.S.S. Cherenkov Telescope](#)

C. Deil, W. Domainko, G. Hermann.

[MAGIC upper limits on the VHE gamma-ray emission from the satellite galaxy Willman 1](#)

MAGIC Collaboration, E. Aliu.

[The Fermi Gamma Ray Space Telescope discovers the Pulsar in the Young Galactic Supernova-Remnant CTA 1](#)

Fermi LAT Collaboration.

[Improving the performance of the single-dish Cherenkov telescope MAGIC through the use of signal timing](#)

MAGIC Collaboration.

[The Blazar Sequence and the Cosmic Gamma-Ray Background Radiation in the Fermi Era](#)

Yoshiyuki Inoue, Tomonori Totani.

[X-ray studies of HESS J1837--069 with Suzaku and ASCA: a VHE gamma-ray source originated from the pulsar wind nebula](#)

Takayasu Anada, Ken Ebisawa, Tadayasu Dotani, Aya Bamba.

[Multi-Tev Gamma-Ray Observation from the Crab Nebula Using the Tibet-III Air Shower Array Finely Tuned by the Cosmic-Ray Moon's Shadow](#)

M. Amenomori.

[VHE Gamma-ray Afterglow Emission from Nearby GRBs](#)

P. H. Tam, R. R. Xue, S. J. Wagner, B. Behera, Y. Z. Fan, D. M. Wei.

[Radiative cooling in relativistic collisionless shocks. Can simulations and experiments probe relevant GRB physics?](#)

Mikhail V. Medvedev, Anatoly Spitkovsky.

[Probing the Galactic cosmic ray flux with submillimeter and gamma ray data](#)

S. Casanova, S. Gabici, F. A. Aharonian, K. Torii, Y. Fukui, T. Onishi, H. Yamamoto, A. Kawamura.

[Technology Section of the White Paper on the Status and Future of Ground-based TeV Gamma-ray Astronomy](#)

K. Byrum, J. Buckley, S. Bugayov, B. Dingus, S. Fegan, S. Funk, E. Hays, J. Holder, D. Horan, A. Konopelko, H. Krawczynski, F. Krennrich, S. Lebohec, G. Sinnis, A. Smith, V. Vassiliev, S. Wakely.

[Gamma rays from compact binary system](#)

Josep M. Paredes.

[The nature of LS 5039 under the scrutiny of gamma-rays](#)

Diego F. Torres, Agnieszka Sierpowska-Bartosik.

[The drive system of the Major Atmospheric Gamma-ray Imaging Cherenkov Telescope](#)

T. Bretz, D. Dorner, R.M. Wagner, P. Sawallisch.

[Discovery of a very high energy gamma-ray signal from the 3C 66A/B region](#)

MAGIC Collaboration, E. Aliu.

[Hard X-ray/soft gamma-ray Characteristics of the Persistent Emission from Magnetars](#)

L. Kuiper, P.R. den Hartog, W. Hermsen.

[GRB060614: a "fake" short GRB from a merging binary system](#)

Letizia Caito, Maria Grazia Bernardini, Carlo Luciano Bianco, Maria Giovanna Dainotti, Roberto Guida, Remo Ruffini.

[Implications of the VHE Gamma-Ray Detection of the Quasar 3C279](#)

Markus Boettcher, Anita Reimer, Alan P. Marscher.

[Sub-mm/mm studies of the molecular gas in the Galactic disk: the TeV gamma ray SNR RXJ1713.7-3946 and the W28 high mass star forming region](#)

Yasuo Fukui.

[New Constraints on Hidden Photons using Very High Energy Gamma-Rays from the Crab Nebula](#)

Hannes-Sebastian Zechlin, Dieter Horns, Javier Redondo.

[Positron/Gamma-Ray Signatures of Dark Matter Annihilation and Big-Bang Nucleosynthesis](#)

Junji Hisano, Masahiro Kawasaki, Kazunori Kohri, Kazunori Nakayama.

[Gamma rays from the annihilation of singlet scalar dark matter](#)

Carlos E. Yaguna.

## **NEUTRINOS AND PROTON DECAY**

---

*JCAP*

[Prospects for studying the solar CNO cycle by means of a lithium neutrino detector](#)

A Kopylov and V Petukhov

*PLB*

[Can OPERA help in constraining neutrino non-standard interactions?](#)

A. Esteban-Pretel, J.W.F. Valle, P. Huber

[Tribimaximal mixing, leptogenesis, and  \$\theta\_{13}\$](#)

Elizabeth E. Jenkins, Aneesh V. Manohar

[Effects of orbital occupancies on the neutrinoless  \$\beta\beta\$  matrix element of  \$^{76}\text{Ge}\$](#)

J. Suhonen, O. Civitarese

[Neutrino mass and low-scale leptogenesis in a testable SUSY SO\(10\) model](#)

Swarup Kumar Majee, Mina K. Parida, Amitava Raychaudhuri

[Contorted flavors in grand unification and proton decay](#)

Kang-Sin Choi

*NIM A*

[Fabrication and performance tests of a segmented p-type HPGe detector](#)

George S. King III, Frank T. Avignone III, Christopher E. Cox, Todd W. Hossbach, Wayne Jennings, James H. Reeves

[Low-power front-end for the optical module of a neutrino underwater telescope](#)

D. Lo Presti, N. Randazzo, L. Caponetto, F. Giorgi, A. Gabrielli

[Development realization and test of an electronic data acquisition board for the NEMO experiment](#)

L. Caponetto, A. Gabrielli, E. Gandolfi, F.M. Giorgi, D. Lo Presti, N. Randazzo and On behalf of the NEMO collaboration.

*PRL*

[Hints of  \$\theta\_{13} > 0\$  from Global Neutrino Data Analysis](#)

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

[Testing Lorentz Invariance and CPT Conservation with NuMI Neutrinos in the MINOS Near Detector](#)

P. Adamson, *et al.*

[Identifying Neutrino Mass Hierarchy at Extremely Small  \$\theta\_{13}\$  through Earth Matter Effects in a Supernova Signal](#)

Basudeb Dasgupta, Amol Dighe, Alessandro Mirizzi.

[Signatures for Right-Handed Neutrinos at the Large Hadron Collider](#)

Katri Huitu, Shaaban Khalil, Hiroshi Okada, Santosh Kumar Rai.

[Publisher's Note: Identifying Neutrino Mass Hierarchy at Extremely Small  \$\theta\_{13}\$  through Earth Matter Effects in a Supernova Signal \[Phys. Rev. Lett. \*\*101\*\*, 171801 \(2008\)\]](#)



Basudeb Dasgupta, Amol Dighe, Alessandro Mirizzi.

*PRD*

[Testing a neutrino mass generation mechanism at the Large Hadron Collider](#)

Pavel Fileviez Pérez, Tao Han, Gui-Yu Huang, Tong Li, Kai Wang.

[Determination of neutrino mass hierarchy and  \$\theta\_{13}\$  with a remote detector of reactor antineutrinos](#)

John G. Learned, Stephen T. Dye, Sandip Pakvasa, Robert C. Svoboda.

[Resolving the mass hierarchy with atmospheric neutrinos using a liquid argon detector](#)

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

[Zero minors of the neutrino mass matrix](#)

E. I. Lashin, N. Chamoun.

[Tests of flavor universality for neutrino-Z couplings in future neutrino experiments](#)

Paul H. Frampton, Thomas W. Kephart, Shinya Matsuzaki.

[Collective neutrino oscillations in matter and CP violation](#)

Jérôme Gava, Cristina Volpe.

[Relation between the neutrino flux from Centaurus A and the associated diffuse neutrino flux](#)

Hylke B. J. Koers, Peter Tinyakov.

[Proton and neutrino extragalactic astronomy](#)

Paolo Lipari.

[Oscillation and future detection of failed supernova neutrinos from a black-hole-forming collapse](#)

Ken'ichiro Nakazato, Kohsuke Sumiyoshi, Hideyuki Suzuki, Shoichi Yamada.

[Impact of cosmic neutrinos on the gravitational-wave background](#)

Anna Mangilli, Nicola Bartolo, Sabino Matarrese, Antonio Riotto.

[Probing the effective number of neutrino species with the cosmic microwave background](#)

Kazuhide Ichikawa, Toyokazu Sekiguchi, Tomo Takahashi.

[Improved limit on the neutrino mass with CMB and redshift-dependent halo bias-mass relations from SDSS, DEEP2, and Lyman-break galaxies](#)

Francesco De Bernardis, Paolo Serra, Asantha Cooray, Alessandro Melchiorri.

[Role of dense matter in collective supernova neutrino transformations](#)



**ASPERA**

**ASTROPARTICLE PUBLICATION REVIEW – Oct. 2008**

A. Esteban-Pretel, A. Mirizzi, S. Pastor, R. Tomàs, G. G. Raffelt, P. D. Serpico, G. Sigl.

*MPLA*

[COLLIDING NEUTRINO BEAMS](#)

REINHARD SCHWIENHORST

*arXiv*

[Higher neutrino mass allowed if DM and DE are coupled](#)

G. La Vacca, S. A. Bonometto, L. P. L. Colombo.

[Improved analysis of SN1987A antineutrino events](#)

G. Pagliaroli, F. Vissani, M. L. Costantini, A. Ianni.

[CFHTLS weak-lensing constraints on the neutrino masses](#)

Ismael Tereno, Carlo Schmid, Jean-Philippe Uzan, Martin Kilbinger, Frederic H. Vincent, Liping Fu.

[Recent  \$\nu\$ s from IceCube](#)

Spencer R. Klein, IceCube Collaboration.

[Neutrino alert systems for Gamma Ray Bursts and Transient astronomical Sources](#)

Stephane Basa, Damien Dornic, Gabrielle Lelaizant, Bruce Gendre, Jose Busto, Alain Mazure.

[Neutrino detection of transient sources with optical follow-up observations](#)

D. Dornic, S. Basa, J. Brunner, J. Busto, A. Klotz, M. Boer, S. Escoffier, B. Vallage, B. Gendre, A. Mazure, J. L. Atteia, A. Le Van Suu.

[Individual GRB sensitivity of a cubic-kilometer deep-sea neutrino telescope KM3NeT](#)

D. Dornic, G. Lelaizant.

[Core-Collapse Astrophysics with a Five-Megaton Neutrino Detector](#)

Matthew D. Kistler, Hasan Yuksel, Shin'ichiro Ando, John F. Beacom, Yoichiro Suzuki.

[Neutrinos and Future Concordance Cosmologies](#)

Peter Adshead, Richard Easter.

[Solar neutrino variability and its implications for solar physics and neutrino physics](#)

P.A. Sturrock.

[First results from the NEMO Phase 1 experiment](#)

Isabella Amore, NEMO Collaboration.

[Dark energy and neutrino mass constraints from weak lensing, supernova, and relative galaxy ages](#)

Yan Gong, Tong-Jie Zhang, Tian Lan, Xue-Lei Chen.



**ASPERA**

**ASTROPARTICLE PUBLICATION REVIEW – Oct. 2008**

[Neutrino Oscillation Measurements with IceCube](#)

Carsten Rott, IceCube Collaboration.

[Oscillation and Future Detection of Failed Supernova Neutrinos from Black Hole Forming Collapse](#)

Ken'ichiro Nakazato, Kohsuke Sumiyoshi, Hideyuki Suzuki, Shoichi Yamada.

[The ANTARES underwater neutrino telescope](#)

Teresa Montaruli, ANTARES Collaboration.

[Results from Seven Years of AMANDA-II](#)

Tyce DeYoung, IceCube Collaboration.

[Constraints on Neutrino Masses from Weak Lensing](#)

Kiyotomo Ichiki, Masahiro Takada, Tomo Takahashi.

[SN1987A: Revisiting the Data and the Correlation between Neutrino and Gravitational Detectors](#)

P. Galeotti, G. V. Pallottino, G. Pizzella.

[Results and perspectives of the solar neutrino experiment Borexino](#)

G. Ranucci, Borexino Collaboration.

[Measurement of the Double Beta Decay Half-life of  \$^{150}\text{Nd}\$  and Search for Neutrinoless Decay Modes with the NEMO-3 Detector](#)

NEMO Collaboration, J. Argyriades.

[The Nemo-3 Experiment and the Supernemo Project](#)

Laurent Simard.

[Hanohano: A Deep Ocean Antineutrino Observatory](#)

M. Batygov, S. T. Dye, J. G. Learned, S. Matsuno, S. Pakvasa, G. Varner.

[Neutrinoless double beta decay search with the NEMO 3 experiment](#)

Irina Nasteva, NEMO 3 Collaboration.

[Studies of Neutrino-Electron Scattering at the Kuo-Sheng Reactor Neutrino Laboratory](#)

M. Deniz, H.T. Wong, TEXONO Collaboration.

[Large-angle hadron production cross-sections for the neutrino factory](#)

I. Boyko.

[Short-baseline Neutrinos: Recent Results and Future Prospects](#)

Ryan B. Patterson.

[The Double Chooz Experiment](#)

Charles E. Lane.

[The SuperNEMO Experiment](#)

R. Benton Pahlka.

[OscSNS: Precision Neutrino Measurements at the Spallation Neutron Source](#)  
Heather Ray, OscSNS Collaboration.

[Recent Results from KamLAND](#)  
Koichi Ichimura, KamLAND Collaboration.

[Neutrino Oscillation Studies with MINOS](#)  
Patricia Vahle, MINOS collaboration.

[Experimental Neutrino Physics](#)  
Christopher W. Walter.

[Hanohano: A Deep Ocean Anti-Neutrino Detector for Unique Neutrino Physics and Geophysics Studies](#)  
John G. Learned, Stephen T. Dye, Sandip Pakvasa.

[Results from NEMO 3](#)  
R. L. Flack, NEMO 3 collaboration.

[Modelling tri-bimaximal neutrino mixing](#)  
M.Hirsch, S.Morisi, J.W.F.Valle.

[Neutrino Mass Models: a road map](#)  
S.F.King.

[Joint analysis of solar neutrino and new KamLAND data in the RSFP framework](#)  
D. Yilmaz.

[Determining the heavy seesaw neutrino mass matrix from low-energy parameters](#)  
Xiao-Gang He, Sandy S. C. Law, Raymond R. Volkas.

[Resonance contribution to single pion production in neutrino-nucleon scattering](#)  
Krzysztof M. Graczyk.

[Minimally Allowed Neutrinoless Double Beta Decay Rates From Approximate Flavor Symmetries](#)  
James Jenkins.  
[Self-induced parametric resonance in collective neutrino oscillations](#)  
Georg G. Raffelt.

[Theoretical Overview of Neutrino Properties](#)  
Zhi-zhong Xing.

[Recoilless Resonant Emission and Detection of Electron Antineutrinos](#)  
W. Potzel.



[Prospects of neutrino oscillation measurements in the detection of reactor antineutrinos with a medium-baseline experiment](#)

Mikhail Batygov, Stephen Dye, John Learned, Shigenobu Matsuno, Sandip Pakvasa, Gary Varner.

[Neutrino-2008: Where are we? Where are we going?](#)

Alexei Yu. Smirnov.

[An accurate analytic description of neutrino oscillations in matter](#)

E. Kh. Akhmedov, Viviana Niro.

[Intrinsic flavor violation for massive neutrinos](#)

C. C. Nishi.

[The Effect of Quark Sector Minimal Flavor Violation on Neutrinoless Double Beta Decay](#)

Brian Dudley, Christopher Kolda.

[Fourier Analysis of the Parametric Resonance of the Neutrino Oscillation in the Presence of Inhomogeneous Matter](#)

Joe Sato, Masafumi Koike, Toshihiko Ota, Masako Saito.

[GUT Inflation and Proton Decay after WMAP5](#)

Mansoor Ur Rehman, Qaisar Shafi, Joshua R. Wickman.

[Probing Non Standard Neutrino Physics at T2KK and Neutrino Factory](#)

Shoichi Uchinami.

[Neutrino Oscillations and Decoherence](#)

Luca Visinelli, Paolo Gondolo.

[Leptoquarks and Neutrino Masses at the LHC](#)

Pavel Fileviez Perez, Tao Han, Tong Li, Michael J. Ramsey-Musolf.

[Charged current reactions in the NuSOng and a test of neutrino-W couplings](#)

A. B. Balantekin, I. Sahin.

[Electric Dipole Moment and Neutrino Mixing due to Planck Scale Effects](#)

Bipin Singh Koranga.

[A three-parameter neutrino mass matrix with maximal CP violation](#)

W. Grimus, L. Lavoura.

[Disentangling Neutrino Oscillations](#)

Andrew G. Cohen, Sheldon L. Glashow, Zoltan Ligeti.

[Predictions of Neutrino Mixing Angles in a T'Model](#)

David A. Eby, Paul H. Frampton, Shinya Matsuzaki.

[Sterile Neutrinos in Light of Recent Cosmological and Oscillation Data: a Multi-Flavor Scheme Approach](#)

Alessandro Melchiorri, Olga Mena, Sergio Palomares-Ruiz, Silvia Pascoli, Anze Slosar, Michel Sorel.

[GeV Majorana Neutrinos in Top-quark Decay at the LHC](#)

Zongguo Si, Kai Wang.

[Probing nonstandard interactions with reactor neutrinos](#)

J. Barranco, O. G. Miranda, T. I. Rashba.

[Bayesian Constraints on  \$\theta\_{13}\$  from Solar and KamLAND Neutrino Data](#)

H.L. Ge, C. Giunti, Q.Y. Liu.

[Seesaw Neutrino Mass and New U\(1\) Gauge Symmetry](#)

Rathin Adhikari, Jens Erler, Ernest Ma.

[Neutrino Mass Seesaw Version 3: Recent Developments](#)

Ernest Ma.

[Renormalization group evolution of neutrino mixing parameters near  \$\theta\_{13} = 0\$  and models with vanishing  \$\theta\_{13}\$  at the high scale](#)

Amol Dighe, Srubabati Goswami, Shamayita Ray.

[QRPA uncertainties and their correlations in the analysis of neutrinoless double beta decay](#)

Amand Faessler, G.L. Fogli, E. Lisi, V. Rodin, A.M. Rotunno, F. Simkovic.

[Neutrino mixing and mass hierarchy in Gaussian landscapes](#)

Lawrence J. Hall, Michael P. Salem, Taizan Watari.

[Measurement of the Solar Neutrino Flux with an Array of Neutron Detectors in the Sudbury Neutrino Observatory](#)

Blair Jamieson, SNO Collaboration.

[Nuclear Structure Relevant to Neutrinoless Double Beta Decay: the Valence Protons in  \$^{76}\text{Ge}\$  and  \$^{76}\text{Se}\$](#)

B.P. Kay, J.P. Schiffer, S.J. Freeman, T. Adachi, J.A. Clark, C.M. Deibel, H. Fujita, Y. Fujita, P. Grabmayr, K. Hatanaka, D. Ishikawa, H. Matsubara, Y. Meada, H. Okamura, K.E. Rehm, Y. Sakemi, Y. Shimizu, H. Shimoda, K. Suda, Y. Tameshige, A. Tamii, C. Wrede.

[Neutrino-less Double Beta Decay of  \$^{48}\text{Ca}\$  studied by  \$\text{CaF}\_2\(\text{Eu}\)\$  Scintillators](#)

S.Umehara, T.Kishimoto, I.Ogawa, R.Hazama, H.Miyawaki, S.Yoshida, K.Matsuoka, K.Kishimoto, A.Katsuki, H.Sakai, D.Yokoyama, K.Mukaida, S.Tomii, Y.Tatewaki, T.Kobayashi, A.Yanagisawa.

[Double Beta Decay: Scintillators](#)



**ASPERA**

**ASTROPARTICLE PUBLICATION REVIEW – Oct. 2008**

Mark C. Chen.

[The quest for the ideal photodetector for the next generation deep-underwater neutrino telescopes](#)

B.K.Lubsandorzhev.

[The KATRIN Neutrino Mass Experiment](#)

J. Wolf, KATRIN collaboration.

[Detection of Geoneutrinos: Can We Make the Gnus Work for Us?](#)

John G. Learned.

## **GRAVITATIONAL WAVES**

---

*PRD*

[Optimal light beams and mirror shapes for future LIGO interferometers](#)

Mihai Bondarescu, Oleg Kogan, Yanbei Chen.

[Fine-tuning criteria for inflation and the search for primordial gravitational waves](#)

Simeon Bird, Hiranya V. Peiris, Richard Easther.

[Gravitational waves from deflagration bubbles in first-order phase transitions](#)

Ariel Mégevand.

[Gravitational waves from compact binaries inspiralling along post-Newtonian accurate eccentric orbits: Data analysis implications](#)

Manuel Tessmer, Achamveedu Gopakumar.

[Erratum: Limits on the speed of gravitational waves from pulsar timing \[Phys. Rev. D \*\*78\*\*, 044018 \(2008\)\]](#)

D. Baskaran, A. G. Polnarev, M. S. Pshirkov, K. A. Postnov.

[Impact of cosmic neutrinos on the gravitational-wave background](#)

Anna Mangilli, Nicola Bartolo, Sabino Matarrese, Antonio Riotto.

*arXiv*

[The gravitational wave background from super-inflation in Loop Quantum Cosmology](#)

E. J. Copeland, D. J. Mulryne, N. J. Nunes, M. Shaeri.

[On the Road to Discovery of Relic Gravitational Waves: the TE and BB Correlations in the Cosmic Microwave Background](#)

W. Zhao, D. Baskaran, L. P. Grishchuk.

[Gravitational waves in vector inflation](#)

Alexey Golovnev, Viatcheslav Mukhanov, Vitaly Vanchurin.

[Mergers of luminous early-type galaxies in the local universe and gravitational wave background](#)

Z. L. Wen, F. S. Liu, J. L. Han.

[On Gravitational Waves in Spacetimes with a Nonvanishing Cosmological Constant](#)

J. Näf, P. Jetzer, M. Sereno.

[Impact of primordial magnetic field produced by electroweak phase transition on the analytic spectrum of relic gravitational wave](#)

Shuang Wang.

[All-sky LIGO Search for Periodic Gravitational Waves in the Early S5 Data](#)

LIGO Scientific Collaboration.

[The diagnostics subsystem on board LISA PathFinder and LISA](#)

P Canizares, A Conchillo, E Garcia-Berro, L Gesa, C Grimani, I Lloro, A Lobo, I Mateos, M Nofrarias, J Ramos-Castro, J Sanjuan, CF Sopena.

[Gravitational Wave Burst Source Direction Estimation using Time and Amplitude Information](#)

J. Markowitz, M. Zanolin, L. Cadonati, E. Katsavounidis.

[Gravitational Waves detection and spectroscopy with a Double-slit Quantum Eraser](#)

Clovis Jacinto de Matos, Fabrizio Tamburini, Josep Maria Perdigues Armengol.

[Gravitational Waves in Relativistic Theory of Gravitation](#)

S. S. Gershtein, A. A. Logunov, M. A. Mestvirishvili.

[The response of interferometric gravitational wave detectors](#)

Lee Samuel Finn.

[Determination of the neutron star mass-radii relation using narrow-band gravitational wave detector](#)

C.H. Lenzi, M. Malheiro, R. M. Marinho, C. Providência, G. F. Marranghello.

[A kg-mass prototype demonstrator for DUAL gravitational wave detector: opto-mechanical excitation and cooling](#)

M. Anderlini, F. Marino, F. Marin.

---

## **GENERAL**

*NIM A*

[An approximation of the ideal scintillation detector line shape with a generalized gamma distribution](#)

O.Ju. Smirnov

[Calculation of neutron background for underground experiments](#)

V. Tomasello, V.A. Kudryavtsev, M. Robinson

[First results of systematic studies done with silicon photomultipliers](#)

C. Bosio, S. Gentile, E. Kuznetsova, F. Meddi

*PLB*

[Secondary scintillation yield in pure argon](#)

C.M.B. Monteiro, J.A.M. Lopes, J.F.C.A. Veloso, J.M.F. dos Santos

*arXiv*

[Tools for Dissecting Supernova Remnants Observed with Chandra: Methods and Application to the Galactic Remnant W49B](#)

Laura A. Lopez, Enrico Ramirez-Ruiz, David A. Pooley, Tesla E. Jeltema.

[New Measurement of the Relative Scintillation Efficiency of Xenon Nuclear Recoils Below 10 keV](#)

E. Aprile, L. Baudis, B. Choi, K. L. Giboni, K. E. Lim, A. Manalaysay, M. E. Monzani, G. Plante, R. Santorelli, M. Yamashita.

[Supernova 2008D: A Repetition of Supernova 1987A In a Binary](#)

Gerald E. Brown, Chang-Hwan Lee.

[Expanding Ejecta in the Oxygen-Rich Supernova Remnant G292.0+1.8: Direct Measurement through Proper Motions](#)

P. Frank Winkler, Karl Twelker, Claudine N. Reith, Knox S. Long.

[Discovery of a very highly extinguished supernova in a luminous infrared galaxy](#)

E. Kankare, S. Mattila, S. Ryder, M.-A. Perez-Torres, A. Alberdi, C. Romero-Canizales, T. Diaz-Santos, P. Vaisanen, A. Efstathiou, A. Alonso-Herrero, L. Colina, J. Kotilainen.

[Initial Hubble Diagram Results from the Nearby Supernova Factory](#)

S. Bailey, G. Aldering, P. Antilogus, C. Aragon, C. Baltay, S. Bongard, C. Buton, M. Childress, Y. Copin, E. Gangler, S. Loken, P. Nugent, R. Pain, E. Pecontal, R. Pereira, S. Perlmutter, D. Rabinowitz, G. Rigaudier, P. Ripoché, K. Runge, R. Scalzo, G. Smadja, C. Tao, R. C. Thomas, C. Wu.

[Reducing the gravitational lensing scatter of Type Ia supernovae without introducing any extra bias](#)

Jakob Jonsson, Edvard Mortsell, Jesper Sollerman.

[Improved Standardization of Type II-P Supernovae: Application to an Expanded Sample](#)

Dovi Poznanski, Nathaniel Butler, Alexei V. Filippenko, Mohan Ganeshalingam, Weidong Li, Joshua S. Bloom, Ryan Chornock, Ryan J. Foley, Peter E. Nugent, Jeffrey M. Silverman, S. Bradley Cenko, Elinor L. Gates, Douglas C. Leonard, Adam A. Miller, Maryam Modjaz, Frank J. D. Serduke, Nathan Smith, Brandon J. Swift, Diane S. Wong.

[Near-IR Search for Lensed Supernovae Behind Galaxy Clusters - II. First Detection and Future Prospects](#)

A.Goobar, K.Paech, V.Stanishev, R.Amanullah, T.Dahlen, J.Jonsson, J.P.Kneib, C.Lidman, M.Limousin, E.Mortsell, S.Nobili, J.Richard, T.Riehm, M.von Strauss.

[The Standard Candle Method for Type II-Plateau Supernovae](#)

Felipe Olivares.

[Distance determination to 12 Type II Supernovae using the Expanding Photosphere Method](#)

Matias I. Jones.

[Supernova waveform catalogue decomposition: a Principal Component Analysis approach](#)

Ik Siang Heng.

[Simulation of neutrons produced by high-energy muons underground](#)

A. Lindote, H. M. Araujo, V. A. Kudryavtsev, M. Robinson.

[On the level of background in underground muon measurements with plastic scintillator counters](#)

V.I.Volchenko, G.V.Volchenko, E.V.Akhrameev, L.B.Bezrukov, I.M.Dzaparova, I.Sh.Davitashvili, T.Enqvist, H.Fynbo, Zh.Sh.Guliev, L.V.Inzhechik, A.O.Izmaylov, J.Joutsenvaara, M.M.Khabibullin, A.N.Khotjantsev, Yu.G.Kudenko, P.Kuusiniemi, B.K.Lubsandorzhev, O.V.Mineev, V.B.Petkov, R.V.Poleshuk, B.A.M.Shaibonov, J.Sarkamo, A.T.Shaykhiev, W.Trzaska, A.F.Yanin, N.V.Yershov.

[Muon simulation codes MUSIC and MUSUN for underground physics](#)

V. A. Kudryavtsev.