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[Constraining dark energy with clusters: Complementarity with other probes](#)

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[Is \$w \neq -1\$ evidence for a dynamical dark energy equation of state?](#)

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[Search for Axions with the CDMS Experiment](#)

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[Unparticle dark energy](#)

De-Chang Dai, Sourish Dutta, Dejan Stojkovic.

[Gamma-ray signatures of annihilation to charged leptons in dark matter substructure](#)

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[Observational constraint on dynamical evolution of dark energy](#)

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[A prototype of a directional detector for non-baryonic dark matter search: MIMAC \(Micro-TPC Matrix of Chambers\)](#)

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[Kinematic constraints on the stellar and dark matter content of spiral and S0 galaxies](#)

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[Rendering Dark Energy Void](#)

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[Shedding Light on Dark Matter with Fermi LAT Data on Gamma Rays](#)

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Joel R. Primack.

[Dark Matter Direct Detection Signals inferred from a Cosmological N-body Simulation with Baryons](#)

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[Old Dark Energy](#)

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[Dark Energy Properties in DBI Theory](#)

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[The QCD nature of Dark Energy](#)

Federico R. Urban, Ariel R. Zhitnitsky.

[Slow Galaxy Growth within Rapidly Growing Dark Matter Halos](#)

Michael J. I. Brown, Bootes Field Collaborations.

[Dark matter dominated dwarf disc galaxy Segue 1](#)

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[The Distribution of Dark Matter Over 3 Decades in Radius in the Lensing Cluster Abell 611](#)

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[Scalar Field Dark Matter Quantum Effects as Dark Energy](#)

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[Quantum Yang-Mills Condensate Dark Energy Models](#)

W. Zhao, Y. Zhang, M. L. Tong.

[The Structure of Cold Dark Matter Halos: Recent Insights from High Resolution Simulations](#)

Marcel Zemp.

[Assembly bias and the dynamical structure of dark matter halos](#)

Andreas Faltenbacher, Simon D. M. White.

[How do galaxies populate Dark Matter halos?](#)

Qi Guo, Simon White, Cheng Li, Michael Boylan-Kolchin.



[Dark matter halos inner slope from weak gravitational lensing](#)

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[New Agegraphic Dark Energy in Brans-Dicke Theory](#)

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[Distinguishing Between Void Models and Dark Energy with Cosmic Parallax and Redshift Drift](#)

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[Measuring Dark Matter Substructure with Galaxy-Galaxy Flexion Statistics](#)

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[The central surface density of "dark halos" predicted by MOND](#)

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[Bianchi type III models with anisotropic dark energy](#)

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[Gravity with extra dimensions and dark matter interpretation: Phenomenological example via Miyamoto-Nagai galaxy](#)

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[Remarks on generalized scalar-tensor models of dark energy](#)

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[Graviscalar dark matter and smooth galaxy halos](#)

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[Perturbations of Dark Matter Gravity](#)

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[The oscillating dark energy and cosmological Casimir effect](#)

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[Gauge singlet scalar as inflaton and thermal relic dark matter](#)

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[Atomic Dark Matter](#)

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[Leptophilic Dark Matter from the Lepton Asymmetry](#)

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[Investigating light neutralinos at neutrino telescopes](#)

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[Threshold corrections to the radiative breaking of electroweak symmetry and neutralino dark matter in supersymmetric seesaw model](#)

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[Dark matter signals in deflected mirage mediation](#)

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[Detecting Gamma-Ray Anisotropies from Decaying Dark Matter: Prospects for Fermi LAT](#)

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[A review on axions and the strong CP problem](#)

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A. Manzur, A. Curioni, L. Kastens, D.N. McKinsey, K. Ni, T. Wongjirad.

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[Atmospheric effects on extensive air showers observed with the surface detector of the Pierre Auger observatory](#)

The Pierre Auger Collaboration, J. Abraham, P. Abreu, M. Aglietta, C. Aguirre, E.J. Ahn, D. Allard, I. Allekotte, J. Allen, P. Allison, J. Alvarez-Muñiz, M. Ambrosio, L. Anchordoqui, S. Andringa, A. Anzalone, C. Aramo, E. Arganda, S. Argirò, K. Arisaka, F. Arneodo, *et al.*

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[Cosmic ray positrons from annihilations into a new, heavy lepton](#)

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PRL

[Inhomogeneity in Cosmic Ray Sources as the Origin of the Electron Spectrum and the PAMELA Anomaly](#)

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[Cosmic-Ray Electron Injection from the Ionization of Nuclei](#)

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[Transport of cosmic rays in the nearby starburst galaxy NGC 253](#)

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[Event reconstruction with the proposed large area Cherenkov air shower detector SCORE](#)

Daniel Hampf, Martin Tluczykont, Dieter Horns.

[Cosmic-ray driven dynamo in the interstellar medium of irregular galaxies](#)

H. Siejkowski, M. Soida, K. Otmianowska-Mazur, M. Hanasz, D.J. Bomans.

[Large-scale sidereal anisotropy of multi-TeV galactic cosmic rays and the heliosphere](#)

M. Amenomori, X. J. Bi, D. Chen, S. W. Cui, Danzengluobu, L. K. Ding, X. H. Ding, C. Fan, C. F. Feng, Zhaoyang Feng, Z. Y. Feng, X. Y. Gao, Q. X. Geng, Q. B. Gou, H. W. Guo, H. H. He, M. He, K. Hibino, N. Hotta, Haibing Hu, H. B. Hu, J. Huang, Q. Huang, H. Y. Jia, L. Jiang, F. Kajino, K. Kasahara, Y. Katayose, C. Kato, K. Kawata, Labaciren, G. M. Le, A. F. Li, H. C. Li, J. Y. Li, C. Liu, Y.-Q. Lou, H. Lu, X. R. Meng, K. Mizutani, J. Mu, K. Munakata, A. Nagai, H. Nanjo, M. Nishizawa, M. Ohnishi, I. Ohta, S. Ozawa, T. Saito, T. Y. Saito, M. Sakata, T. K. Sako, M. Shibata, A. Shiomi, T. Shirai, H. Sugimoto, M. Takita, Y. H. Tan, N. Tateyama, S. Torii, H. Tsuchiya, S. Udo, B. Wang, H. Wang, Y. Wang, Y. G. Wang, H. R. Wu, L. Xue, Y. Yamamoto, C. T. Yan, X. C. Yang, S. Yasue, Z. H. Ye, G. C. Yu.

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[Hadron-gamma discrimination from an orbital UHECR observatory](#)

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[On the statistical effects of multiple reusing of simulated air showers in detector simulations](#)

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[Does Galactic Magnetic Field Disturb the Correlation of the Highest Energy Cosmic Rays with their Sources?](#)

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[Note on galaxy catalogues in UHECR flux modelling](#)

Hylke B. J. Koers, Peter Tinyakov.

[Building LOFAR - status update](#)

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[Neutron Stars and Gamma Ray Bursts with LOFAR](#)

Joeri van Leeuwen, LOFAR Transients Key Science Project.

[The small scale clustering properties of ultra-high energy cosmic rays as a constraint on the particle charge and intervening magnetic fields](#)

Patrick Younk.

[Studying individual UHECR sources with high statistics](#)

Gustavo Medina-Tanco, JEM-EUSO Collaboration.

[JEM-EUSO Science Objectives](#)

Gustavo Medina-Tanco, K. Asano, D. Cline, T. Ebisuzaki, S. Inoue, P. Lipari, E. Parizot, A. Santangelo, G. Sigl, Y. Takahashi, H. Takami, M. Teshima, T. J. Weiler, JEM-EUSO Collaboration.

[Cosmic ray driven outflows from high redshift galaxies](#)

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[A Parametrization of Cosmic Ray Shower Profiles Based on Shower Width](#)

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

[On cosmic ray acceleration in supernova remnants and the FERMI/PAMELA data](#)

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[Unified interpretation of cosmic-ray nuclei and antiproton recent measurements](#)

Giuseppe Di Bernardo, Carmelo Evoli, Daniele Gaggero, Dario Grasso, Luca Maccione.

[Kinetic simulations of turbulent magnetic-field growth by streaming cosmic rays](#)

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[Ultra-High Energy Cosmic Particles studies from space: super-EUSO, a possible next-generation experiment](#)

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[Observing Ultra High Energy Cosmic Particles from Space: SEUSO, the Super Extreme Universe Space Observatory Mission](#)

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[Cosmic ray anomalies and DAMA experiment in an Extended Seesaw Model](#)

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[Decaying LSP in SO\(10\) GUT and PAMELA's Cosmic Positron](#)

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[Geiger mode APD's for the underground cosmic ray experiment EMMA](#)

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

X and GAMMA RAYS

ApP

[A multivariate analysis approach for the imaging atmospheric Cherenkov telescopes system H.E.S.S.](#)

F. Dubois, G. Lamanna, A. Jacholkowska

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[Search for TeV gamma-rays from Geminga pulsar](#)

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[On possible interpretations of the high energy electron-positron spectrum measured by the Fermi Large Area Telescope](#)

D. Grasso, S. Profumo, A.W. Strong, L. Baldini, R. Bellazzini, E.D. Bloom, J. Bregeon, G. Di Bernardo, D. Gaggero, N. Giglietto, T. Kamae, L. Latronico, F. Longo, M.N. Mazziotta, A.A. Moiseev, A. Morselli, J.F. Ormes, M. Pesce-Rollins, M. Pohl, M. Razzano, *et al.*

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PRD

[Generic dark matter signature for gamma-ray telescopes](#)

V. Barger, Y. Gao, W.-Y. Keung, D. Marfatia.



arXiv

[Magnetohydrodynamic Simulations of Gamma-Ray Burst Jets: Beyond the Progenitor Star](#)

Alexander Tchekhovskoy, Ramesh Narayan, Jonathan C. McKinney.

[The onset of the GeV afterglow of GRB 090510](#)

G. Ghirlanda, G. Ghisellini, L. Nava.

[Search for VHE gamma rays from SS433/W50 with the CANGAROO-II telescope](#)

Sei. Hayashi, F. Kajino, T. Naito, A. Asahara, G. V. Bicknell, R. W. Clay, Y. Doi, P. G. Edwards, R. Enomoto, S. Gunji, S. Hara, T. Hara, T. Hattori, C. Itoh, S. Kabuki, H. Katagiri, A. Kawachi, T. Kifune, L. T. Ksenofontov, H. Kubo, T. Kurihara, R. Kurosaka, J. Kushida, Y. Matsubara, Y. Miyashita, Y. Mizumoto, M. Mori, H. Mori, H. Muraishi, Y. Muraki, T. Nakase, D. Nishida, K. Nishijima, M. Ohishi, K. Okumura, J. R. Patterson, R. J. Protheroe, N. Sakamoto, K. Sakurazawa, D. L. Swaby, T. Tanimori, H. Tanimura, G. Thornton, F. Tokanai, K. Tsuchiya, T. Uchida, S. Watanabe, T. Yamaoka, S. Yanagita, T. Yoshida, T. Yoshikoshi.

[On the multiwavelength emission from Gamma Ray Burst afterglows](#)

M. Petropoulou, A. Mastichiadis.

[Gamma-rays from star-forming regions: from SNOBs to dark accelerators](#)

Thierry Montmerle.

[Hadronic Models for the Extra Spectral Component in the short GRB 090510](#)

Katsuaki Asano, Sylvain Guiriec, Peter Mészáros.

[Gamma-ray and Cosmic Ray Astrophysics from 10 TeV to 1 EeV with the large-area \(\$>10 \text{ km}^2\$ \) air-shower Detector SCORE](#)

M. Tluczykont, T. Kneiske, D. Hampf, D. Horns.

[Gamma-ray signatures of annihilation to charged leptons in dark matter substructure](#)

Matthew D. Kistler, Jennifer M. Siegal-Gaskins.

[Testing the Gamma-Ray Burst Pulse Start Conjecture](#)

Jon Hakkila, Robert J. Nemiroff.

[Afterglow from GRB 070610/Swift J195509.6+261406: an explanation using the fireball model](#)

Kong SiWei, Huang Yong-Feng.

[Testing GRB models with the strange afterglow of GRB 090102](#)

B. Gendre, A. Klotz, E. Palazzi, T. Kruhler, S. Covino, P. Afonso, L.A. Antonelli, J.L. Atteia, P. D'Avanzo, M. Boer, J. Greiner, S. Klose.

[Contribution of Stellar Flares to the Diffuse Component of Galactic Gamma-Rays](#)

Y. Muraki.



ASPERA

ASTROPARTICLE PUBLICATION REVIEW – Sept.2009

[The nature of HI absorbers in GRB afterglows: clues from hydrodynamic simulations](#)

Andrew Pontzen, Alis Deason, Fabio Governato, Max Pettini, James Wadsley, Thomas Quinn, Alyson Brooks, Jillian Bellovary, Johan Fynbo.

[X- and Gamma-Ray Flashes from Type Ia Supernovae?](#)

Peter Hoflich, Bradley E. Schaefer.

[Gamma Ray Bursts - Maybe not so old after all](#)

Enrico Ramirez-Ruiz, William Lee.

[Shedding Light on Dark Matter with Fermi LAT Data on Gamma Rays](#)

Leszek Roszkowski, Yue-Lin Sming Tsai.

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

N. Gehrels, E. Ramirez-Ruiz, D.B. Fox.

[The Extragalactic Background Light Absorption Feature in the Blazar Component of the Extragalactic Gamma-ray Background](#)

Tonia M. Venters, Vasiliki Pavlidou, Luis C. Reyes.

[Relativistic Rayleigh-Taylor Instability of a Decelerating Shell and its Implications for Gamma Ray Bursts](#)

Amir Levinson.

[Hubble Space Telescope Observations of Short GRB Host Galaxies: Morphologies, Offsets, and Local Environments](#)

Wen-fai Fong, Edo Berger, Derek B. Fox.

[Are all short-hard gamma-ray bursts produced from mergers of compact stellar objects?](#)

Francisco J. Virgili, Bing Zhang, Paul O'Brien, Eleonora Troja.

[Nuclear Interaction Gamma-Ray Lines from the Galactic Center Region](#)

V. A. Dogiel, V. Tatischeff, K. S. Cheng, D. O. Chernyshov, C. M. Ko, W. H. Ip.

[Primordial flares, flux tubes, MHD waves in the early universe and genesis of cosmic gamma ray bursts](#)

K. M. Hiremath.

[Cosmic GRB energy-redshift relation and Primordial flares as possible energy source for the central engine](#)

K. M. Hiremath.

[Gamma-ray burst afterglows from trans-relativistic blast wave simulations](#)

H.J. van Eerten, K. Leventis, Z. Meliani, R.A.M.J. Wijers, R. Keppens.

[Magnetic fields of coalescing neutron stars and the luminosity function of short gamma-ray burst](#)

K.A.Postnov, A.G.Kuranov.



ASPERA

ASTROPARTICLE PUBLICATION REVIEW – Sept.2009

[Pulsed Gamma-Ray-Burst Afterglows](#)

John Middleditch.

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D. Petry, V. Beckmann, H. Halloin, A. Strong.

[Correlation of Supernova Remnant Masers and Gamma-Ray Sources](#)

John W. Hewitt, Farhad Yusef-Zadeh, Mark Wardle.

[Short gamma-ray bursts from tidal capture and collisions of compact stars in globular clusters](#)

William H. Lee, Enrico Ramirez-Ruiz, Glenn van de Ven.

[Neutron Stars and Gamma Ray Bursts with LOFAR](#)

Joeri van Leeuwen, LOFAR Transients Key Science Project.

[Constraining relativistic protons and magnetic fields in galaxy clusters through radio and gamma-ray observations : the case of A2256](#)

G. Brunetti.

[Spectral evolution of GRBs observed with BeppoSAX WFCs and GRBM](#)

F. Frontera, L. Amati, C. Guidorzi, R. Landi, V. La Parola.

[AGILE detection of a rapid gamma-ray flare from the blazar PKS 1510-089 during the GASP-WEBT monitoring](#)

F. D'Ammando, G. Pucella, C. M. Raiteri, M. Villata, V. Vittorini, S. Vercellone, I. Donnarumma, F. Longo, M. Tavani, 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, Y. Evangelista, M. Feroci, A. Ferrari, M. Fiorini, T. Froyland, F. Fuschino, M. Galli, F. Gianotti, A. Giuliani, C. Labanti, I. Lapshov, F. Lazzarotto, P. Lipari, M. Marisaldi, S. Mereghetti, A. Morselli, L. Pacciani, A. Pellizzoni, F. Perotti, G. Piano, P. Picozza, M. Pilia, M. Prest, M. Rapisarda, A. Rappoldi, S. Sabatini, P. Soffitta, M. Trifoglio, A. Trois, E. Vallazza, A. Zambra, D. Zanello, I. Agudo, M. F. Aller, H. D. Aller, A. A. Arkharov, U. Bach, E. Benitez, A. Berdyugin, D. A. Blinov, C. S. Buemi, W. P. Chen.

[Optimization of large homogeneous air Cherenkov arrays and application to the design of a 1TeV-100TeV gamma-ray observatory](#)

Pierre Colin, Stephan LeBohec.

[Gamma-ray Astronomy with Muons: Sensitivity of IceCube to PeVatrons in the Southern Sky](#)

Francis Halzen, Alexander Kappes, Aongus O'Murchadha.

[Gamma-ray astronomy in the summer of 2009](#)

Diego F. Torres.

[Gamma-Ray Bursts as Cosmological Tools](#)



Vahe Petrosian, Aurelien Bouvier, Felix Ryde.

[Towards the Properties of Long Gamma-Ray Burst Progenitors with Swift Data](#)

Xiao-Hong Cui, En-Wei Liang, Hou-Jun Lv, Bin-Bin Zhang, Ren-Xin Xu.

[Long-term Continuous Energy Injection in the Afterglow of GRB 060729](#)

Ming Xu, Yong-Feng Huang, Tan Lu.

[One-dimensional pair cascade emission in gamma-ray binaries](#)

Benoit Cerutti, Guillaume Dubus, Gilles Henri.

[Propagation of Neutrinos through Magnetized Gamma-Ray Burst Fireball](#)

Sarira Sahu, Nissim Fraija, Yong-Yeon Keum.

[Detecting Gamma-Ray Anisotropies from Decaying Dark Matter: Prospects for Fermi LAT](#)

Alejandro Ibarra, David Tran, Christoph Weniger.

[Constraints on Lorentz invariance violation from gamma-ray burst GRB090510](#)

Zhi Xiao, Bo-Qiang Ma.

[Dark matter annihilation into gamma-ray line generated by anomalies](#)

Y. Mambrini.

NEUTRINOS AND PROTON DECAY

JCAP

[Atmospheric lepton fluxes at ultrahigh energies](#)

José Ignacio Illana, Manuel Masip and Davide Meloni

[The role and detectability of the charm contribution to ultra high energy neutrino fluxes](#)

Raj Gandhi, Abhijit Samanta and Atsushi Watanabe

[Neutrino oscillations in magnetically driven supernova explosions](#)

Shio Kawagoe, Tomoya Takiwaki and Kei Kotake

NIM A

[Characterization of large area APDs for the EXO-200 detector](#)

R. Neilson, F. LePort, A. Pocar, K.S. Kumar, A. Odian, C.Y. Prescott, V. Tenev, N. Ackerman, D. Akimov, M. Auger, C. Benitez-Medina, M. Breidenbach, A. Burenkov, R. Conley, S. Cook, R. deVoe, M.J. Dolinski, W. Fairbank Jr., J. Farine, P. Fierlinger, et al.

[The extended-track event reconstruction for MiniBooNE](#)

R.B. Patterson, E.M. Laird, Y. Liu, P.D. Meyers, I. Stancu, H.A. Tanaka

[The fluid-filling system for the Borexino solar neutrino detector](#)

J. Benziger, L. Cadonati, F. Calaprice, M. Chen, A. Corsi, F. Dalnoki-Veress, R. Fernholz, R. Ford, C. Galbiati, A. Goretti, E. Harding, Aldo Ianni, Andrea Ianni, S. Kidner, M. Leung, F. Loeser, K. McCarty, D. McKinsey, A. Nelson, A. Pocar, *et al.*

NPB

[Leptoquarks and neutrino masses at the LHC](#)

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

PRC

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

J. Argyriades, *et al.*

[Degeneracy at 1871 keV in \$^{112}\text{Cd}\$ and implications for neutrinoless double electron capture](#)

K. L. Green, P. E. Garrett, R. A. E. Austin, G. C. Ball, D. S. Bandyopadhyay, S. Colosimo, D. Cross, G. A. Demand, G. F. Grinyer, G. Hackman, W. D. Kulp, K. G. Leach, A. C. Morton, C. J. Pearson, A. A. Phillips, M. A. Schumaker, C. E. Svensson, J. Wong, J. L. Wood, S. W. Yates.

PRD

[Relativistic cyclotron radiation detection of tritium decay electrons as a new technique for measuring the neutrino mass](#)

Benjamin Monreal, Joseph A. Formaggio.

[Physics with near detectors at a neutrino factory](#)

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[Three flavor neutrino oscillations in matter: Flavor diagonal potentials, the adiabatic basis, and the \$CP\$ phase](#)

James P. Kneller, Gail C. McLaughlin.

[Some radiative corrections to neutrino scattering: Neutral currents](#)

James P. Jenkins, T. Goldman.

[On the origin of neutrino masses](#)

Pavel Fileviez Pérez, Mark B. Wise.

[Bayesian constraints on \$\theta_{13}\$ from solar and KamLAND neutrino data](#)

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

[Neutrino-antineutrino oscillations as a possible solution for the LSND and MiniBooNE anomalies?](#)

Sebastian Hollenberg, Octavian Micu, Heinrich Päs.

[Prospects for indirect detection of sneutrino dark matter with IceCube](#)

Rouzbeh Allahverdi, Sascha Bornhauser, Bhaskar Dutta, Katherine Richardson-McDaniel.

[High-energy neutrinos from dark matter particle self-capture within the Sun](#)

Andrew R. Zentner.

[Nonstandard interaction effects on astrophysical neutrino fluxes](#)

A. Chervyakov, H. Kleinert.
PRL

[Search for Electron Antineutrino Appearance at the \$\Delta m^2 \sim 1 \text{ eV}^2\$ Scale](#)

A. A. Aguilar-Arevalo, *et al.*

[Galactic Substructure and Energetic Neutrinos from the Sun and Earth](#)

Savvas M. Koushiappas, Marc Kamionkowski.

MPLA

[DECIPHERING THE SEESAW NATURE OF NEUTRINO MASS FROM UNITARITY VIOLATION](#)

ERNEST MA

arXiv

[Study of High pT Muons in IceCube](#)

Lisa Gerhardt, Spencer Klein, IceCube Collaboration.

[Optical follow-up of high-energy neutrinos detected by IceCube](#)

A. Franckowiak, C. Akerlof, D. F. Cowen, M. Kowalski, R. Lehmann, T. Schmidt, F. Yuan, IceCube collaboration, ROTSE collaboration.

[Direct Measurement of the Atmospheric Muon Energy Spectrum with IceCube](#)

Patrick Berghaus, IceCube Collaboration.

[First search for extraterrestrial neutrino-induced cascades with IceCube](#)

J. Kiryluk, IceCube Collaboration.

[Nucleosynthesis in neutrino-driven winds: influence of the nuclear physics input](#)

Almudena Arcones, Gabriel Martinez-Pinedo.

[Search for cosmic neutrino point sources with the 5-line ANTARES telescope](#)

Antares Collaboration.

[Development of neutrino initiated cascades at mid and high altitudes in the atmosphere](#)

A.D. Supanitsky, G. Medina-Tanco, K. Asano, D. Cline, T. Ebisuzaki, S. Inoue, P. Lipari, A. Santangelo, K. Shinozaki, G. Sigl, Y. Takahashi, M. Teshima, JEM-EUSO Collaboration.

[GeoSynchrotron Radiation from Earth Skimming Tau Neutrino Shower](#)

Kwang-Chang Lai, Guey-Lin Lin, Tsung-Che Liu, Jiwoo Nam, Chi-Chin Chen.

[Ray-Tracing Analysis of Anisotropic Neutrino Radiation for Estimating Gravitational Waves in Core-Collapse Supernovae](#)

Kei Kotake, Wakana Iwakami, Naofumi Ohnishi, Shoichi Yamada.

[Gamma-ray Astronomy with Muons: Sensitivity of IceCube to PeVatrons in the Southern Sky](#)

Francis Halzen, Alexander Kappes, Aongus O'Murchadha.

[Towards neutrino transport with flavor mixing in supernovae: the Liouville operator](#)

Christian Y. Cardall.

[Search for a diffuse flux of high-energy neutrinos with the Baikal neutrino telescope NT200](#)

Zh.-A. Dzhilkibaev, Baikal Collaboration.

[Survey of the Sun in the Lake Baikal Neutrino Experiment](#)

Zh.-A.Dzhilkibaev, Baikal Collaboration.

[Neutrino Lensing](#)

Luo Xin-Lian.

[A new search for anomalous neutrino oscillations at the CERN-PS](#)

B. Baibussinov, E. Calligarich, S. Centro, D. Gibin, A. Guglielmi, F.Pietro Paolo, C. Rubbia, P. Sala.

[First Measurement of Muon Neutrino Charged Current Quasielastic \(CCQE\) Double Differential Cross Section](#)

Teppei Katori.

[Neutrino mass limit from tritium beta decay](#)

E. W. Otten, C. Weinheimer.

[Initial Results for Electron-Neutrino Appearance in MINOS](#)

Mayly C. Sanchez.

[On the possibility to use ATLAS and CMS detectors for neutrino physics](#)

A. Guskov.

[SuperNEMO - the next generation double beta decay experiment](#)

Irina Nasteva, SuperNEMO collaboration.

[Measurement of Neutrino-Nucleon Neutral Current Elastic Scattering in MiniBooNE](#)



ASPERA

ASTROPARTICLE PUBLICATION REVIEW – Sept.2009

Denis Perevalov, Rex Tayloe.

[Measurement of neutral current neutral pion production on Carbon in a Few-GeV Neutrino Beam](#)

Y.Kurimoto.

[Search for muon-neutrino to electron-neutrino transitions in MINOS](#)

MINOS Collaboration.

[Search for neutrino charged current coherent pion production at SciBooNE](#)

K. Hiraide.

[Measurement of the muon-neutrino charged-current quasi-elastic cross-section in the SciBooNE experiment](#)

Jose Luis Alcaraz-Aunion, Joseph Walding.

[Significance of neutrino cross-sections for astrophysics](#)

A.B. Balantekin.

[Determination of the unknown absolute neutrino mass and MNS parameters at the LHC in the Higgs triplet model](#)

Hiroyuki Nishiura, Takeshi Fukuyama.

[CP Violation in Antineutrino-Electron Elastic Scattering](#)

W. Sobków, S. Ciechanowicz, M. Misiaszek.

[Proton Decay and Fermion Masses in Supersymmetric SO\(10\) Model with Unified Higgs Sector](#)

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[Flavor Composition of UHE Neutrinos at Source and at Neutrino Telescopes](#)

Sandhya Choubey, Werner Rodejohann.

[Neutrino Mixing in Unified Extended Seesaw Model](#)

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[Confusing non-zero \$\theta_{13}\$ with non-standard interactions in the solar neutrino sector](#)

A. Palazzo, J. W. F. Valle.

[Neutrinos and Lepton Flavour Violation](#)

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[Asymmetric Higgs Sector and Neutrino Mass in an SU\(2\)_R Model](#)

Alfredo Aranda, J. Lorenzo Diaz-Cruz, Ernest Ma, Roberto Noriega, Jose Wudka.

[Interplay between collective effects and non-standard neutrino interactions of supernova neutrinos](#)

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[Exploring neutrino parameters with a beta-beam experiment from FNAL to DUSEL](#)
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[Nuclear effects in neutrino-nucleus DIS](#)
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[Investigating light neutralinos at neutrino telescopes](#)
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[Electroweak scale neutrinos and decaying dark matter](#)
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[One vanishing minor in the neutrino mass matrix](#)
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[The Origin of Neutrino Masses and Physics Beyond the Standard Model](#)
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[Neutrino mass from a hidden world and its phenomenological implications](#)
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[Neutrino Mass and Flavour Models](#)
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[Four Momentum Transfer Discrepancy in the Charged Current \$\pi^+\$ Production in the MiniBooNE: Data vs. Theory](#)
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[Long-baseline neutrino experiments as tests for Lorentz violation](#)
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[Pseudo-Dirac Neutrino Scenario: Cosmic Neutrinos at Neutrino Telescopes](#)
Arman Esmaili.

[CCpi0 Event Reconstruction at MiniBooNE](#)

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[Pulse shape discrimination studies with a Broad-Energy Germanium detector for signal identification and background suppression in the GERDA double beta decay experiment](#)

Dušan Budjáš, Marik Barnabé Heider, Oleg Chkvorets, Nikita Khanbekov, Stefan Schönert.

[Relativistic models for electron and neutrino-nucleus scattering](#)

C. Giusti, A. Meucci, F.D. Pacati, J.A. Caballero, J.M. Udias.

[Neutrino interactions with nuclei](#)

M. Martini, G. Chanfray, M. Ericson, J. Marteau.

[Neutrino induced pion production at MiniBooNE and K2K energies](#)

T. Leitner, O. Buss, U. Mosel, L. Alvarez-Ruso.

[Neutrino Interactions Importance for Nuclear Physics](#)

J.E. Amaro, C. Maieron, M. Valverde, J. Nieves, M.B. Barbaro, J.A. Caballero, T.W. Donnelly, J.M. Udias.

[Nuclear effects in electron reactions and their impact on neutrino processes](#)

M.B. Barbaro, J.E. Amaro, J.A. Caballero, R. Cenni, T.W. Donnelly, A. Molinari, J.M. Udias.

[Quasielastic Scattering at MiniBooNE Energies](#)

L. Alvarez-Ruso, O. Buss, T. Leitner, U. Mosel.

[Graphene, neutrino mass and oscillation](#)

Z.Wang.

[Characterization of a Nd-loaded organic liquid scintillator for neutrinoless double beta decay search of 150-Nd with a 10-ton scale detector](#)

I. Barabanov, L. Bezrukov, C. Cattadori, N. Danilov, A. Di Vacri, A. Ianni, S. Nisi, F. Ortica, A. Romani, C. Salvo, O. Smirnov, E. Yanovich.

[Effect of a sweeping conductive wire on electrons stored in the Penning trap between the KATRIN spectrometers](#)

M. Beck, K. Valerius, J. Bonn, K. Essig, F. Glück, H.-W. Ortjohann, B. Ostrick, E. W. Otten, Th. Thümmel, M. Zbořil, C. Weinheimer.

GRAVITATIONAL WAVES

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[Search for gravitational wave ringdowns from perturbed black holes in LIGO S4 data](#)

B. P. Abbott, *et al.*

[First LIGO search for gravitational wave bursts from cosmic \(super\)strings](#)

B. P. Abbott, *et al.*

[Thermorefractive and thermochemical noise in the beamsplitter of the GEO600 gravitational-wave interferometer](#)

Bruin Benthem, Yuri Levin.

[Bayesian approach to the detection problem in gravitational wave astronomy](#)

Tyson B. Littenberg, Neil J. Cornish.

[Signal photon flux and background noise in a coupling electromagnetic detecting system for high-frequency gravitational waves](#)

Fangyu Li, Nan Yang, Zhenyun Fang, Robert M. L. Baker, Jr., Gary V. Stephenson, Hao Wen.

[Gravitational wave forms for a three-body system in Lagrange's orbit: Parameter determinations and a binary source test](#)

Hideki Asada.

[Parameter estimation for coalescing massive binary black holes with LISA using the full 2-post-Newtonian gravitational waveform and spin-orbit precession](#)

Antoine Klein, Philippe Jetzer, Mauro Sereno.

[Bayesian approach to the study of white dwarf binaries in LISA data: The application of a reversible jump Markov chain Monte Carlo method](#)

Alexander Stroeer, John Veitch.

[Probing tensor-vector-scalar theory with gravitational wave asteroseismology](#)

Ayan Chatterjee, Amit Ghosh.

PRL

[How to Observe a Non-Kerr Spacetime Using Gravitational Waves](#)

Theocharis A. Apostolatos, Georgios Lukes-Gerakopoulos, George Contopoulos.

arXiv

[An Electromagnetic Signature of Galactic Black Hole Binaries That Enter Their Gravitational-Wave Induced Inspiral](#)

Abraham Loeb.

[The stochastic gravitational wave background from turbulence and magnetic fields generated by a first-order phase transition](#)

Chiara Caprini, Ruth Durrer, Geraldine Servant.

[Observing gravitational wave bursts in pulsar timing measurements](#)

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



[A numerical study of primordial magnetic field amplification by inflation-produced gravitational waves](#)

Sachiko Kuroyanagi, Hiroyuki Tashiro, Naoshi Sugiyama.

[Gravitational-wave memory and pulsar timing arrays](#)

Rutger van Haasteren, Yuri Levin.

[The North American Nanohertz Observatory for Gravitational Waves](#)

F. Jenet, L. S. Finn, J. Lazio, A. Lommen, M. McLaughlin, I. Stairs, D. Stinebring, J. Verbiest, A. Archibald, Z. Arzoumanian, D. Backer, J. Cordes, P. Demorest, R. Ferdman, P. Freire, M. Gonzalez, V. Kaspi, V. Kondratiev, D. Lorimer, R. Lynch, D. Nice, S. Ransom, R. Shannon, X. Siemens.

[Search for Memory and Inspiral Gravitational Waves from Super-Massive Binary Black Holes with Pulsar Timing Arrays](#)

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[Ray-Tracing Analysis of Anisotropic Neutrino Radiation for Estimating Gravitational Waves in Core-Collapse Supernovae](#)

Kei Kotake, Wakana Iwakami, Naofumi Ohnishi, Shoichi Yamada.

[Gravitational wave emission from rotating superfluid neutron stars](#)

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[Stochastic background of gravitational waves generated by pre-galactic black holes](#)

Eduardo S. Pereira, Oswaldo D. Miranda.

[Angular instability due to radiation pressure in the LIGO gravitational wave detector](#)

Eiichi Hirose, Keita Kawabe, Daniel Sigg, Rana Adhikari, Peter R. Saulson.

[The Effect of Eccentricity on Searches for Gravitational-Waves from Coalescing Compact Binaries in Ground-based Detectors](#)

Duncan A. Brown, Peter J. Zimmerman.

[Gravitational wave signatures of the absence of an event horizon. I. Nonradial oscillations of a thin-shell gravastar](#)

Paolo Pani, Emanuele Berti, Vitor Cardoso, Yanbei Chen, Richard Norte.

[An overview of the Laser Interferometer Space Antenna](#)

Daniel A. Shaddock.

[Gravitomagnetic corrections on gravitational waves](#)

S. Capozziello, M. De Laurentis, L. Forte, F. Garufi, L. Milano.

[Bayesian reconstruction of gravitational wave burst signals from simulations of rotating stellar core collapse and bounce](#)

Christian Röver, Marie-Anne Bizouard, Nelson Christensen, Harald Dimmelmeier, Ik Siong Heng, Renate Meyer.

[The influence of short term variations in AM CVn systems on LISA measurements](#)
Alexander Stroeer, Gijs Nelemans.

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I. A. Brown, L. Schrempf, K. Ananda.

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["Complete" gravitational waveforms for black-hole binaries with non-precessing spins](#)
P. Ajith, M. Hannam, S. Husa, Y. Chen, B. Bruegmann, N. Dorband, D. Mueller, F. Ohme, D. Pollney, C. Reisswig, L. Santamaria, J. Seiler.

[Fundamental Theoretical Bias in Gravitational Wave Astrophysics and the Parameterized Post-Einsteinian Framework](#)
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Nicolas Yunes, C. F. Sopuerta.

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F.Y. Li, N. Yang, Z.Y. Fang, R.M.L. Baker Jr., G.V. Stephenson, H. Wen.

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PRL

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arXiv

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Jian-Wen Xu, Fang-Jun Lu.



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