



ASPERA

ASTROPARTICLE PUBLICATION REVIEW – Feb. 2009

## DARK MATTER AND DARK ENERGY

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### [DM particles: how warm they can be?](#)

Julio C. Fabris, Ilya L. Shapiro and Flávia Sobreira

### [Cosmological consequences of Yukawa-unified SUSY with mixed axion/axino cold and warm dark matter](#)

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### [Cosmic rays from leptonic dark matter](#)

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### [Massive hidden photons as lukewarm dark matter](#)

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

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. Kousouris, 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, A. Placci, G. Raffelt, H. Riege, A. Rodríguez, J. Ruz, I. Savvidis, Y. Semertzidis, P. Serpico, R. Soufli, L. Stewart, K. van Bibber, J. Villar, J. Vogel, L. Walckiers and K. Zioutas

### [The effective theory of quintessence: the \$w < -1\$ side unveiled](#)

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### [Decaying dark matter and the PAMELA anomaly](#)

Alejandro Ibarra and David Tran

### [Model- and calibration-independent test of cosmic acceleration](#)

Marina Seikel and Dominik J. Schwarz

PLB

### [Origin of holographic dark energy models](#)

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### [PAMELA and dark matter](#)

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### [Cosmological solutions of time varying speed of light theories](#)

Mahmood Roshan, Maryam Nouri, Fatimah Shojai

*PRD*

[Neutrino masses, leptogenesis, and dark matter in a hybrid seesaw model](#)

Pei-Hong Gu, M. Hirsch, Utpal Sarkar, J. W. F. Valle.

[Higgs funnel region of supersymmetric dark matter for small  \$\tan\beta\$  and renormalization group effects on pseudoscalar Higgs boson with scalar mass nonuniversality](#)

Utpal Chattopadhyay, Debottam Das.

[Cosmic-ray electron signatures of dark matter](#)

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[Quintom dark energy models with nearly flat potentials](#)

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[Dark energy perturbations and cosmic coincidence](#)

Javier Grande, Ana Pelinson, Joan Solà.

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Nicole F. Bell, Thomas D. Jacques.

[Backgrounds and projected limits from dark matter direct detection experiments](#)

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[Holographic dark energy model from Ricci scalar curvature](#)

Changjun Gao, Fengquan Wu, Xuelei Chen, You-Gen Shen.

[Inelastic dark matter in light of DAMA/LIBRA](#)

Spencer Chang, Graham D. Kribs, David Tucker-Smith, Neal Weiner.

[Neutrino signals from annihilating/decaying dark matter in the light of recent measurements of cosmic ray electron/positron fluxes](#)

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[Can dark matter decay in dark energy?](#)

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[Angular correlations in the cosmic gamma-ray background from dark matter annihilation around intermediate-mass black holes](#)

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[Cosmological perturbations in models of coupled dark energy](#)

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[On the large-scale instability in interacting dark energy and dark matter fluids](#)

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[Gravity with perturbative constraints: Dark energy without new degrees of freedom](#)  
Alan Cooney, Simon DeDeo, Dimitrios Psaltis.

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

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J. I. Read, L. Mayer, A. M. Brooks, F. Governato, G. Lake.

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Daniel T. Cumberbatch, Joe Zuntz, Hans Kristian Kamfjord Eriksen, Joe Silk.

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Brant Robertson, Andrew Zentner.

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S. Jouvel, J-P. Kneib, O. Ilbert, G. Bernstein, S. Arnouts, T. Dahlen, A. Ealet, B. Milliard, H. Aussel, P. Capak, V. Le Brun, H. McCracken, P. Capak, M. Salvato, N. Scoville.

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Jinglei Cui, Li Zhang, Jingfei Zhang, Xin Zhang.

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Laura Covi, Jihn E. Kim.

[Clustering of dark matter tracers: generalizing bias for the coming era of precision LSS](#)  
Patrick McDonald, Arabindo Roy.

[Dark Energy from a Phantom Field Near a Local Potential Minimum](#)  
Sourish Dutta, Robert J. Scherrer.



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[Dark matter in the solar system I: The distribution function of WIMPs at the Earth from solar capture](#)

Annika H. G. Peter.

[Dark matter in the solar system II: WIMP annihilation rates in the Sun](#)

Annika H. G. Peter.

[Dark matter in the solar system III: The distribution function of WIMPs at the Earth from gravitational capture](#)

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[Constraints on early dark energy from CMB lensing and weak lensing tomography](#)

Lukas Hollenstein, Domenico Sapone, Robert Crittenden, Bjoern Malte Schaefer.

[Cold Dark Matter Substructure and Galactic Disks II: Dynamical Effects of Hierarchical Satellite Accretion](#)

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[The impact of baryons on dark matter haloes](#)

Susana E. Pedrosa, Patricia B. Tissera, Cecilia Scannapieco.

[Wide Field Imager in Space for Dark Energy and Planets](#)

Andrew Gould.

[Active Galactic Nuclei Shed Light on Axion-like-Particles](#)

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

[Limits on a muon flux from neutralino annihilations in the Sun with the IceCube 22-string detector](#)

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[Galaxy-Induced Transformation of Dark Matter Halos](#)

Mario G. Abadi, Julio F. Navarro, Mark Fardal, Arif Babul, Matthias Steinmetz.

[Exploring Dark Energy with Next-Generation Photometric Redshift Surveys](#)

Hu Zhan, Andreas Albrecht, Asantha Cooray, Salman Habib, Alan Heavens, Katrin Heitmann, Bhuvnesh Jain, Myungkook J. Jee, Lloyd Knox, Rachel Mandelbaum, Jeff Newman, Samuel Schmidt, Ryan Scranton, Michael Strauss, Tony Tyson, Licia Verde, David Wittman, Michael Wood-Vasey.

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G. La Vacca, J.R. Kristiansen, L.P.L. Colombo, R. Mainini, S. A. Bonometto.

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Steven R. Majewski, James Bullock, Andreas Burkert, Brad Gibson, Eva Grebel, Oleg Y. Gnedin, Puragra Guhathakurta, Amina Helmi, Kathryn V. Johnston, Pavel Kroupa, Manuel Metz, Ben Moore, Richard J. Patterson, Edward Shaya, Louis E. Strigari, Roeland van der Marel.

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[Mass Accretion Rates and Histories of Dark Matter Haloes](#)

James McBride, Onsi Fakhouri, Chung-Pei Ma.

[Intermediate Mass Black Holes and Nearby Dark Matter Point Sources: A Myth-Buster](#)

Torsten Bringmann, Julien Laval, Pierre Salati.

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Elena Aprile, Laura Baudis, XENON100 Collaboration.

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Jai-chan Hwang, Hyerim Noh.

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Sandro Micheletti, Elcio Abdalla, Bin Wang.

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

[PAMELA/ATIC anomaly from the meta-stable extra dark matter component and the leptophilic Yukawa interaction](#)  
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[How accurately is the property of the Little Higgs Dark Matter determined at the ILC?](#)  
Shigeki Matsumoto, Eri Asakawa, Masaki Asano, Keisuke Fujii, Tomonori Kusano, Rei Sasaki, Yosuke Takubo, Hitoshi Yamamoto.

[The PAMELA and ATIC Signals From Kaluza-Klein Dark Matter](#)  
Dan Hooper, Kathryn Zurek.

[The Leptonic Higgs as a Messenger of Dark Matter](#)  
Hock-Seng Goh, Lawrence J. Hall, Piyush Kumar.

[Shedding Light on the Dark Sector with Direct WIMP Production](#)  
Partha Konar, Kyoungchul Kong, Konstantin T. Matchev, Maxim Perelstein.

[Gamma-rays from Dark Matter Annihilation in the Central Region of the Galaxy](#)  
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[Electric Dipole Moment of Dirac Fermionic Dark Matter](#)  
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[Nambu-Goldstone Dark Matter and Cosmic Ray Electron and Positron Excess](#)  
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[An extended Higgs sector for neutrino mass, dark matter and baryon asymmetry](#)  
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[Neutralino dark matter stars can not exist](#)  
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Utpal Chattopadhyay, Debottam Das, D.P.Roy.

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Rouven Essig, Neelima Sehgal, Louis E. Strigari.

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[Gravity Modification with Yukawa-type Potential: Dark Matter and Mirror Gravity](#)

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[Thermodynamical picture of the interacting holographic dark energy model](#)

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[Speculations on dark matter as a luminiferous medium](#)

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[Simulations of the Nuclear Recoil Head-Tail Signature in Gases Relevant to Directional Dark Matter Searches](#)

P. Majewski, D. Muna, D.P. Snowden-Ifft, N.J.C. Spooner.

## COSMIC RAYS

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[Obtaining the diffusion coefficient for cosmic ray propagation in the Galactic Centre Ridge through time-dependent simulations of their  \$\gamma\$ -ray emission](#)

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[Measurement of some EAS properties using new scintillator detectors developed for the GRAPES-3 experiment](#)

P.K. Mohanty, S.R. Dugad, U.D. Goswami, S.K. Gupta, Y. Hayashi, A. Iyer, N. Ito, P. Jagadeesan, A. Jain, S. Karthikeyan, S. Kawakami, M. Minamino, S.D. Morris, P.K. Nayak, T. Nonaka, A. Oshima, B.S. Rao, K.C. Ravindran, H. Tanaka, S.C. Tonwar and The GRAPES-3 Collaboration

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Thierry Gousset, Jacob Lamblin, Sandra Valcares

### *JCAP*

[Decaying dark matter and the PAMELA anomaly](#)

Alejandro Ibarra and David Tran

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V. Barger, W.-Y. Keung, D. Marfatia, G. Shaughnessy

### *PRD*

[Cosmic-ray electron signatures of dark matter](#)

Martin Pohl.

[Is the PAMELA positron excess winos?](#)

Phill Grajek, Gordon L. Kane, Daniel J. Phalen, Aaron Pierce, Scott Watson.

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

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

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

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[Anisotropy Studies with the Pierre Auger Observatory](#)

E. M. Santos, Pierre Auger Colaboration.

[Consequences of the common origin of the knee and ankle in Cosmic Ray Physics](#)

Antonio Codino, François Plouin.

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V. B. Petkov, I. Alikhanov, J. Szabelski.

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Nir J. Shaviv, Ehud Nakar, Tsvi Piran.

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[Development of a radio-detection method array for the observation of ultra-high energy neutrino induced showers](#)

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[Source position and magnetic field reconstruction from ultra-high energy cosmic ray arrival directions](#)

Geraldina Golup, Diego Harari, Silvia Mollerach, Esteban Roulet.

[Lofar, E-Lofar and Low-Frequency Vlbi](#)

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[Studies of the UHECR propagation in the Galactic Magnetic Field](#)  
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[Techniques to study cosmic ray anisotropies](#)  
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[Composition Studies with the Pierre Auger Observatory](#)  
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[Neutrino diagnostics of ultra-high energy cosmic ray protons](#)  
Markus Ahlers, Luis A. Anchordoqui, Subir Sarkar.

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[Measurement of the Cosmic Ray and Neutrino-Induced Muon Flux at the Sudbury Neutrino Observatory](#)  
SNO Collaboration.

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[Decaying Hidden Gaugino as a Source of PAMELA/ATIC Anomalies](#)

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

## **X and GAMMA RAYS**

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*ApP*

[A 15° wide field of view imaging air Cherenkov telescope](#)

R. Mirzoyan, M.I. Andersen

[Obtaining the diffusion coefficient for cosmic ray propagation in the Galactic Centre Ridge through time-dependent simulations of their  \$\gamma\$ -ray emission](#)

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[Gamma ray and neutrinos fluxes from a cosmological dark matter simulation](#)

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[Angular correlations in the cosmic gamma-ray background from dark matter annihilation around intermediate-mass black holes](#)

Marco Taoso, Shin'ichiro Ando, Gianfranco Bertone, Stefano Profumo.

*arXiv*

[Search for high-energy muon neutrinos from the "naked-eye" GRB 080319B with the IceCube neutrino telescope](#)

IceCube Collaboration, R. Abbasi.



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Dorota Sobczynska.

[The Correlation of Spectral Lag Evolution with Prompt Optical Emission in GRB 080319B](#)

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