

DARK MATTER AND DARK ENERGY

“Optimizing WIMP directional detectors”

[Astroparticle physics 27 pages 142-149](#)

“What can gamma ray bursts teach us about dark energy?”

[Astroparticle physics 27 pages 113-118](#)

“Search for axions from the Kuo-Sheng nuclear power reactor with a high-purity germanium detector”

[Physical Review D 75 052004](#)

“Searching for dark matter sterile neutrinos in the laboratory”

[Physical Review D 75 053005](#)

“Direct WIMP detection in directional experiments”

[Physical Review D 75 055007](#)

“Dark matter halos with cores from hierarchical structure formation”

[Physical Review D 75 061303\(R\)](#)

“Exploring the dark energy redshift desert with the Sandage-Loeb test”

[Physical Review D 75 062001](#)

“Dark energy with fine redshift sampling”

[Physical Review D 75 063502](#)

“Heavy superheated droplet detectors as a probe of spin-independent WIMP dark matter existence”

[Physical Review D 75 063503](#)

“Neutralino dark matter and the curvaton”

[Physical Review D 75 063504](#)

“Cosmic positron signature from dark matter in the littlest Higgs model with T parity”

[Physical Review D 75 0635046](#)

“Voids of dark energy”

[Physical Review D 75 063507](#)

“Dark energy in hybrid inflation”

[Physical Review D 75 063520](#)



- “Right-handed sneutrino as cold dark matter of the Universe”
[Physical Review D 75 065001](#)
- “Is Violation of Newton's Second Law Possible?”
[Physical Review Letters 98 101101](#)
- “Dark Energy versus Modified Gravity”
[Physical Review Letters 98 121301](#)
- “The Universal Rotation Curve of Spiral Galaxies. II The Dark Matter Distribution out to the Virial Radius”
[astro-ph/0703115](#)
- “The XENON10 WIMP Search Experiment at the Gran Sasso Underground Laboratory”
[astro-ph/0703183](#)
- “The speed of the ‘bullet’ in the merging galaxy cluster 1E0657-56”
[astro-ph/0703232](#)
- “Impact of astrophysical processes on the gamma-ray background from dark matter annihilations”
[astro-ph/0703236](#)
- “Unified Dark Matter in Scalar Field Cosmologies”
[astro-ph/0703259](#)
- “Dynamics of dwarf-spheroidals and the dark matter halo of the Galaxy”
[astro-ph/0703262](#)
- “Quantum Vacuum and a Matter - Antimatter Cosmology”
[astro-ph/0703280](#)
- “Limits on coupling between dark components”
[astro-ph/0703303](#)
- “The Observed properties of Dark Matter on small spatial scales”
[astro-ph/0703308](#)
- “MIMAC : A Micro-TPC Matrix of Chambers for direct detection of Wimps”
[astro-ph/0703310](#)
- “Does the Universe Have a Handedness”
[astro-ph/0703325](#)

- “Formation and evolution of galaxy dark matter halos and their substructure”
[astro-ph/0703337](https://arxiv.org/abs/astro-ph/0703337)
- “Searching for decaying axion-like dark matter from clusters of galaxies”
[astro-ph/0703342](https://arxiv.org/abs/astro-ph/0703342)
- “Dark Matter of the Universe”
[astro-ph/0703348](https://arxiv.org/abs/astro-ph/0703348)
- “Confrontation of MOND with the rotation curves of early-type disc galaxies”
[astro-ph/0703352](https://arxiv.org/abs/astro-ph/0703352)
- “The ZEPLIN II dark matter detector: data acquisition system and data reduction”
[astro-ph/0703362](https://arxiv.org/abs/astro-ph/0703362)
- “The outer Galaxy: stellar populations and dark matter”
[astro-ph/0703365](https://arxiv.org/abs/astro-ph/0703365)
- “Dark Matter on small scales; Telescopes on large scales”
[astro-ph/0703370](https://arxiv.org/abs/astro-ph/0703370)
- “Disk galaxy rotation curves and dark matter distribution”
[astro-ph/0703430](https://arxiv.org/abs/astro-ph/0703430)
- “Dark Energy-Dark Matter Interaction and the Violation of the Equivalence Principle from the Abell Cluster A586”
[astro-ph/0703462](https://arxiv.org/abs/astro-ph/0703462)
- “Significant Gamma Lines from Inert Higgs Dark Matter”
[astro-ph/0703512](https://arxiv.org/abs/astro-ph/0703512)
- “Can Light-nuclei Search Experiments Constrain the Spin-independent Dark Matter Phase Space?”
[astro-ph/0703543](https://arxiv.org/abs/astro-ph/0703543)
- “Neutrinos as cluster dark matter”
[astro-ph/0703590](https://arxiv.org/abs/astro-ph/0703590)
- “Reconstructing the Velocity Distribution of WIMPs from Direct Dark Matter Detection Data”
[astro-ph/0703651](https://arxiv.org/abs/astro-ph/0703651)

- “Dark Matter: The Case of Sterile Neutrino”
[astro-ph/0703673](https://arxiv.org/abs/astro-ph/0703673)
- “WIMP annihilation in caustics”
[astro-ph/0703704](https://arxiv.org/abs/astro-ph/0703704)
- “Some Comments on an MeV Cold Dark Matter Scenario”
[hep-ph/0703014](https://arxiv.org/abs/hep-ph/0703014)
- “The galactic 511 keV line from electroweak scale WIMPs”
[hep-ph/0703128](https://arxiv.org/abs/hep-ph/0703128)
- “Collider signatures of gravitino dark matter with a sneutrino NLSP”
[hep-ph/0703130](https://arxiv.org/abs/hep-ph/0703130)
- “Determining the WIMP mass using direct detection experiments”
[hep-ph/0703217](https://arxiv.org/abs/hep-ph/0703217)

COSMIC RAYS

- “Propagation of super-high-energy cosmic rays in the Galaxy”
[Astroparticle physics pages 119-126](#)
- “Search for correlations between nearby AGNs and ultra-high energy cosmic rays”
[Astroparticle physics 27 pages 134-141](#)
- “An upper limit to the photon fraction in cosmic rays above 10^{19} eV from Pierre Auger Observatory”
[Astroparticle physics 27 pages 155-168](#)
- “Characteristics of geomagnetic cascading of ultra-high energy photons at the southern and northern sites of the Pierre Auger Observatory”
[Astroparticle physics 27 pages 174-184](#)
- “Confronting dark energy models with astrophysical data: Non-equilibrium vs. conventional cosmologies”
[Astroparticle physics 27 pages 185-198](#)
- “The intergalactic propagation of ultra-high energy cosmic ray nuclei”
[Astroparticle physics 27 pages 199-212](#)
- UHECR: Status and Perspectives. Proceedings of the Cosmic Ray International Seminars.
[Nuclear Physics B \(Proc. Suppl.\) vol. 165 Pages 1-366](#)

SpacePart 2006. Proceedings of the Third International Conference on Particle and Fundamental Physics in Space.

[Nuclear Physics B \(Proc. Suppl.\) Volume 166 pp. 1-320 \(April 2007\)](#)
(include also interesting articles for Gamma Ray physics).

“New physics from ultrahigh energy cosmic rays”

[Physical Review D 75 055002](#)

“Observation of the anisotropy of 10 TeV primary cosmic ray nuclei flux with the Super-Kamiokande-I detector”

[Physical Review D 75 062003](#)

“The use of the Cherenkov radiation and the fluorescence light to calibrate the energy of giant air showers”

[astro-ph/0703015](#)

“Observation of the GZK Cutoff by the HiRes Experiment”

[astro-ph/0703099](#)

“The theory of pulsar winds and nebulae”

[astro-ph/0703116](#)

“Measurement of the pressure dependence of air fluorescence emission induced by electrons”

[astro-ph/0703132](#)

“Cosmic-ray positron fraction measurement from 1 to 30 GeV with AMS-01”

[astro-ph/0703154](#)

“Effect of nearby supernova remnants to the local Cosmic-Rays”

[astro-ph/0703176](#)

“Models of diffusion of galactic Cosmic Rays from Super-bubbles”

[astro-ph/0703353](#)

“Non-Universal Spectra of Ultra-High Energy Cosmic Ray Primaries and Secondaries in a Structured Universe”

[astro-ph/0703403](#)

“Air-shower simulations with and without thinning: artificial fluctuations and their suppression”

[astro-ph/0703546](#)

“Particle acceleration at shock waves: particle spectrum as a function of the equation of state of the shocked plasma”

[astro-ph/0703555](#)

“Statistical methods applied to composition studies of ultrahigh energy cosmic rays”

[astro-ph/0703582](https://arxiv.org/abs/astro-ph/0703582)

“Signatures of the extragalactic cosmic-ray source composition from spectrum and shower depth measurements”

[astro-ph/0703633](https://arxiv.org/abs/astro-ph/0703633)

“Cosmic ray composition at high energies: Results from the TRACER project”

[astro-ph/0703707](https://arxiv.org/abs/astro-ph/0703707)

X and GAMMA RAYS

“TeV gamma rays and neutrinos from photodisintegration of nuclei in Cygnus OB2”

[Physical Review D 75 063001](https://arxiv.org/abs/astro-ph/0703001)

“Dark matter annihilation or unresolved astrophysical sources? Anisotropy probe of the origin of the cosmic gamma-ray background”

[Physical Review D 75 063519](https://arxiv.org/abs/astro-ph/0703519)

“TeV γ Rays from Photodisintegration and Daughter Deexcitation of Cosmic-Ray Nuclei”

[Physical Review Letters 98 121101](https://arxiv.org/abs/astro-ph/0703101)

“Discovery of very high energy gamma-ray emission from the low-frequency peaked BL Lac object BL Lacertae”

[astro-ph/0703084](https://arxiv.org/abs/astro-ph/0703084)

“A description of sources detected by INTEGRAL during the first 4 years of observations”

[astro-ph/0703043](https://arxiv.org/abs/astro-ph/0703043)

“Discovery of very high energy gamma-ray emission from the low-frequency peaked BL Lac object BL Lacertae”

[astro-ph/0703084](https://arxiv.org/abs/astro-ph/0703084)

“Black Hole Spin Evolution: Implications for Short-hard Gamma Ray Bursts and Gravitational Wave Detection”

[astro-ph/0703131](https://arxiv.org/abs/astro-ph/0703131)

“Magnetic acceleration of relativistic AGN jets”

[astro-ph/0703146](https://arxiv.org/abs/astro-ph/0703146)

“A method to measure the mirror reflectivity of a prime focus telescope”



[astro-ph/0703174](https://arxiv.org/abs/astro-ph/0703174)

“Correlation of Photon and Neutrino Fluxes in Blazars and Gamma Ray Bursts”

[astro-ph/0703219](https://arxiv.org/abs/astro-ph/0703219)

“The blast wave of Tycho's supernova remnant”

[astro-ph/0703239](https://arxiv.org/abs/astro-ph/0703239)

“Gamma ray bursts, supernovae and metallicity in the intergalactic medium”

[astro-ph/0703293](https://arxiv.org/abs/astro-ph/0703293)

“The Birthplaces of Gamma-Ray Bursts”

[astro-ph/0703373](https://arxiv.org/abs/astro-ph/0703373)

“Detection of extended very-high-energy gamma-ray emission towards the young stellar cluster Westerlund 2”

[astro-ph/0703427](https://arxiv.org/abs/astro-ph/0703427)

“Non-photonic emission from gamma-ray bursts”

[astro-ph/0703434](https://arxiv.org/abs/astro-ph/0703434)

“Digging for the Truth: Photon Archeology with GLAST”

[astro-ph/0703505](https://arxiv.org/abs/astro-ph/0703505)

“Discovery of a Pulsar Candidate Associated with the TeV Gamma-ray Source HESS J1813-178”

[astro-ph/0703513](https://arxiv.org/abs/astro-ph/0703513)

“Unidentified gamma-ray sources: new source classes with GLAST”

[astro-ph/0703528](https://arxiv.org/abs/astro-ph/0703528)

“Accretion Disks in AGNs”

[astro-ph/0703589](https://arxiv.org/abs/astro-ph/0703589)

“The time ending the shallow decay of the X-ray light curves of long GRBs”

[astro-ph/0703700](https://arxiv.org/abs/astro-ph/0703700)

“Modern Statistical Methods for GLAST Event Analysis”

[astro-ph/0703738](https://arxiv.org/abs/astro-ph/0703738)

“Effects of Cosmic Infrared Background on High Energy Delayed Gamma-Rays from Gamma-Ray Bursts”

[astro-ph/0703759](https://arxiv.org/abs/astro-ph/0703759)

COSMIC NEUTRINOS AND NEUTRINO PROPERTIES

“Observables sensitive to absolute neutrino masses: A reappraisal after WMAP 3-year and first MINOS results”

[Physical Review D 75 053001](#)

“Unconventional neutrino mass generation, neutrinoless double beta decays, and collider phenomenology”

[Physical Review D 75 053004](#)

“Oscillation effects on high-energy neutrino fluxes from astrophysical hidden sources”

[Physical Review D 75 063003](#)

“High-energy neutrinos from astrophysical accelerators of cosmic ray nuclei”

[astro-ph/0703001](#)

“Neutrino mass from future high redshift galaxy surveys: sensitivity and detection threshold”

[astro-ph/0703031](#)

“Supernova neutrinos”

[astro-ph/0703334](#)

“The ANTARES Optical Beacon System”

[astro-ph/0703355](#)

“Towards Acoustic Detection of UHE Neutrinos in the Mediterranean Sea - The AMADEUS Project in ANTARES”

[astro-ph/0703444](#)

“Probing Low Energy Neutrino Backgrounds with Neutrino Capture on Beta Decaying Nuclei”

[hep-ph/0703075](#)

“Sterile neutrinos”

[hep-ph/0703116](#)

GRAVITATIONAL WAVES

“Quest for circular polarization of a gravitational wave background and orbits of laser interferometers in space”

[Physical Review D 75 061302\(R\)](#)

“Gravitational waves from extreme mass ratio inspirals in nonpure Kerr spacetimes”

[Physical Review D 75 064016](#)

“Gravitational-Wave Stochastic Background from Cosmic Strings”

[Physical Review Letters 98 111101](#)

“Selection effects in resolving Galactic binaries with LISA”

[astro-ph/0703035](#)

“Upper limit map of a background of gravitational waves”

[astro-ph/0703234](#)

“Search for gravitational wave radiation associated with the pulsating tail of the SGR 1806-20 hyperflare of 27 December 2004 using LIGO”

[astro-ph/0703419](#)

“Analytic spectrum of relic gravitational waves modified by neutrino free streaming and dark energy”

[astro-ph/0703602](#)

“Periodic Gravitational Waves From Small Cosmic String Loops”

[gr-qc/0703109](#)