

Publication List

2017

Results from PICO-60 Run 2, The PICO Collaboration, In Preparation (2017)

The Updated PINGU Letter of Intent, The IceCube-Gen 2 Collaboration, In Preparation (2017)

Neutrinos and Cosmic Rays Observed by IceCube, The IceCube Collaboration, In Preparation (2017)

2016

The IceCube Realtime Alert System, The IceCube Collaboration, In Preparation (2016)

Search for Annihilating Dark Matter in the Sun with Three Years of IceCube Data, The IceCube Collaboration, In Preparation (2016)

The IceCube Neutrino Observatory: Instrumentation and Online Systems, The IceCube Collaboration, Submitted to JINST (2016) [83 pages]

The Contribution of Fermi-2LAC Blazars to the Diffuse TeV-PeV Neutrino Flux, The IceCube Collaboration, *Astrophysical Journal* 835, 1, 45 (2016) [17 pages]

Very High-Energy Gamma-Ray Follow-Up Program Using Neutrino Triggers from IceCube, The IceCube Collaboration, *JINST* 11, P11009 (2016) [40 pages]

All-Sky Search for Time-Integrated Neutrino Emission from Astrophysical Sources with Seven Years of IceCube Data, The IceCube Collaboration, *Astrophysical Journal* 835, 2, 151 (2016) [15 pages]

First Search for Dark Matter Annihilations in the Earth with the IceCube Detector, The IceCube Collaboration, Submitted to *European Physical Journal C*

Observation and Characterization of a Cosmic Muon Neutrino Flux from the Northern Hemisphere using Six Years of IceCube Data, The IceCube Collaboration, *Astrophysical Journal* 833, 1, 3 (2016) [18 pages]

Constraints on Ultra-High-Energy Cosmic Ray Sources from a Search for Neutrinos above 10 PeV with IceCube, the IceCube Collaboration, *Physical Review Letters* 117, 24, 241101 (2016) [9 pages]

Search for Sources of High Energy Neutrons with Four Years of Data from the IceTop Detector, The IceCube Collaboration, *Astrophysical Journal* 830, 2, 129 (2016) [12 pages]

All-flavour Search for Neutrinos from Dark Matter Annihilations in the Milky Way with IceCube/DeepCore, The IceCube Collaboration, *European Physical Journal C* 76, 10, 531 (2016) [15 pages]

Lowering IceCube's Energy Threshold for Point Source Searches in the Southern Sky, The IceCube Collaboration, *Astrophysical Journal*, 824, 2, L28 (2016) [8 pages]

Anisotropy in Cosmic-ray Arrival Directions in the Southern Hemisphere Based on Six Years of Data from the IceCube Detector, The IceCube Collaboration, *Astrophysical Journal* 826, 2, 220 (2016) [17 pages]

High-energy Neutrino Follow-up Search of Gravitational Wave Event GW150914 with ANTARES and IceCube, The ANTARES, IceCube, LIGO Scientific and Virgo Collaborations, *Physical Review D* 93, 12, 122010 (2016) [15 pages]

An All-Sky Search for Three Flavors of Neutrinos from Gamma-Ray Bursts with the IceCube Neutrino Observatory, *Astrophysical Journal* 824 2, 115 (2016) [13 pages] Improved Dark Matter Search Results from PICO-2L Run 2, The PICO Collaboration, *Physical Review D* 93, 6, 061101 (2016) [5 pages]

Improved Limits on Dark Matter Annihilation in the Sun with the 79-string IceCube Detector and Implications for Supersymmetry, The IceCube Collaboration, *JCAP* 1604, 4, 022 (2016) [28 pages]

2015

Dark Matter Search Results from the PICO-2L C₃F₈ Bubble Chamber, The PICO Collaboration, *Phys. Rev. Lett.* 114, 231302 (2015) [6 pages]

Development of a General Analysis and Unfolding Scheme and its Application to Measure the Energy Spectrum of Atmospheric Neutrinos with IceCube, The IceCube Collaboration, *European Physical Journal C* 75 (2015) [39 pages]

Determining Neutrino Oscillation Parameters from Atmospheric Muon Neutrino Disappearance with Three Years of IceCube DeepCore Data, The IceCube Collaboration, *Physical Review D* 91 (2015) [10 pages]

The IceProd Framework: Distributed Data Processing for the IceCube Neutrino Observatory, The IceCube Collaboration, *Journal of Parallel and Distributed Computing* 75 (2015) [17 pages]

Multipole Analysis of IceCube Data to Search for Dark Matter Accumulated in the Galactic Halo, The IceCube Collaboration, *European Physical Journal C* 75 (2015) [17 pages]

Searches for Small-Scale Anisotropies from Neutrino Point Sources with Three Years of IceCube Data, The IceCube Collaboration, *Astroparticle Physics* 66 (2015) [13 pages]

Atmospheric and Astrophysical Neutrinos above 1 TeV Interacting in IceCube, The IceCube Collaboration, *Physical Review D* 91 (2015) [18 pages]

The Calibration System for the Photomultiplier Array of the SNO+ Experiment, R. Alves, S.Andringa, S.Bradbury, J..Carvalho, D.Chauhan, K.Clark, I.Coulter, F.Descamps, E.Falk, L.Gurriana, C.Kraus, G.Lefevre, A.Maio, J.Maneira, M.Mottram, S.Peeters, J.Rose, L.Seabra, J.Sinclair, P.Skensved, J.Waterfield, R.White, J.Wilson, *JINST* 10 (2015) [31 pages]

2014

Determining neutrino oscillation parameters from atmospheric muon neutrino disappearance with three years of IceCube DeepCore data, The IceCube Collaboration, arXiv 1410.7227 [7 pages] (submitted to *Phys Rev. Lett.*)

Searches for Extended and Point-like Neutrino Sources with Four Years of IceCube Data, The IceCube Collaboration, arXiv 1406.6757 [36 pages] (submitted to the *Astrophysical Journal*)

Observation of High-Energy Astrophysical Neutrinos in Three Years of IceCube Data, The IceCube Collaboration, *Phys. Rev. Lett.* 113 (101101) [8 pages]

Search for a Diffuse Flux of Astrophysical Muon Neutrinos with the IceCube 59-string Configuration, The IceCube Collaboration, *Phys Rev. D* 89, 062007 (2014) [19 pages]

Energy Reconstruction Methods in the IceCube Neutrino Telescope, The IceCube Collaboration, *JINST* 9, 03009 (2014) [21 pages]

First Results from the LUX Dark Matter Experiment at the Sanford Underground Research Facility, The LUX Collaboration, *Phys Rev. Lett.* 112, 091303 (2014) [11 pages]

Improvement in Fast Particle Track Reconstruction with Robust Statistics, The IceCube Collaboration, *NIM A* 736 (2014) [6 pages]

Letter of Intent: The Precision IceCube Next Generation Upgrade (PINGU), The IceCube/PINGU Collaboration, arXiv 1401.2406 (2014) [136 pages]

2013

Evidence for High-Energy Extraterrestrial Neutrinos at the IceCube Detector, The IceCube Collaboration, Science Volume 342 Number 6161 (2013) [38 pages]

Probing the Origin of Cosmic-Rays with Extremely High Energy Neutrinos using the IceCube Observatory, The IceCube Collaboration, Phys. Rev. D 88, 112008 (2013) [15 pages]

Search for Time-Independent Neutrino Emission from Astrophysical Sources with Three Years of IceCube Data, The IceCube Collaboration, ApJ 779 132 (2013) [17 pages]

IceCube Search for Dark Matter Annihilation in Nearby Galaxies and Galaxy Clusters, The IceCube Collaboration, Phys Rev. D 88, 12201 (2013) [10 pages]

First Observation of PeV-Energy Neutrinos with IceCube, The IceCube Collaboration, Phys. Rev. Lett. 111 021103 (2013) [7 pages]

Measurement of South Pole Ice Transparency with the IceCube LED Calibration System, The IceCube Collaboration, NIM A 711 (2013) [16 pages]

Measurement of the Atmospheric ν_e Flux in IceCube, The IceCube Collaboration, Phys. Rev. Lett. 110 151105 (2013) [7 pages]

Search for Dark Matter Annihilations in the Sun with the 79-String IceCube Detector, the IceCube Collaboration, Phys. Rev. Lett. 110 131302 (2013) [7 pages]

The Large Underground Xenon (LUX) Experiment, The LUX Collaboration, NIM A 704 (2013) [15 pages]

Search for Galactic PeV Gamma Rays with the IceCube Neutrino Observatory, The IceCube Collaboration, Phys. Rev. D 87 062002 (2013) [15 pages]

Observation of Cosmic Ray Anisotropy with the IceTop Air Shower Array, The IceCube Collaboration, ApJ 765 (2013) [10 pages]

The LUX Prototype Detector: Heat Exchanger Development, The LUX Collaboration, NIM A 709 (2013) [7 pages]

An Ultra-Low Background PMT for Liquid Xenon Detectors, The LUX Collaboration, NIM A 703 (2013) [6 pages]

PINGU Sensitivity to the Neutrino Mass Hierarchy, The IceCube/PINGU Collaboration, arXiv1306.5846 (2013)

2012

IceCube/DeepCore and IceCube/PINGU: Prospects for Few-GeV Scale Physics in the Ice, K. Clark and D.F.Cowen, Nuclear Phys. B Proceedings Supplements 233 (2012) [5 pages]

LUXSim: A Component-Centric Approach to Low-Background Simulations, The LUX Collaboration, NIM A 675 (2012) [14 pages]

Data Acquisition and Readout System for the LUX Dark Matter Experiment, The LUX Collaboration, NIM A 668 (2012) [9 pages]

2011

New Insights into Particle Detection with Superheated Liquids, The PICASSO Collaboration, New J. Phys. 13 043006 (2011) [25 pages]

2009

Dark Matter Spin-Dependent Limits for WIMP Interactions on ^{19}F by PICASSO, The PICASSO Collaboration, Phys. Lett. B 682 185 (2009) [7 pages]

2008

Discrimination of Nuclear Recoils from Alpha Particles with Superheated Liquids, The PICASSO Collaboration, New J. Phys. 10 103017 (2008) [7 pages]