Publication List

Peter B. Denton

Updated: October 6, 2016¹

Published

- [1] P. B. Denton, H. Minakata, and S. J. Parke, "Compact Perturbative Expressions For Neutrino Oscillations in Matter," *JHEP* **06** (2016) 051, arXiv:1604.08167 [hep-ph].
- [2] P. B. Denton and T. J. Weiler, "Sensitivity of full-sky experiments to large scale cosmic ray anisotropies," JHEAp 8 (2015) 1-9, arXiv:1505.03922 [astro-ph.HE].
- [3] P. B. Denton and T. J. Weiler, "The Fortuitous Latitude of the Pierre Auger Observatory and Telescope Array for Reconstructing the Quadrupole Moment," *Astrophys. J.* **802** no. 1, (2015) 25, arXiv:1409.0883 [astro-ph.HE].
- [4] L. A. Anchordoqui, P. B. Denton, H. Goldberg, T. C. Paul, M. da Silva, Luiz H. B. J. Vlcek, and T. J. Weiler, "Weinberg's Higgs portal confronting recent LUX and LHC results together with upper limits on B⁺ and K⁺ decay into invisibles," Phys. Rev. D 89 (Apr, 2014) 083513, arXiv:1312.2547 [hep-ph].
- [5] P. B. Denton and T. J. Weiler, "Using integral dispersion relations to extend the LHC reach for new physics," *Phys. Rev. D* 89 (Feb, 2014) 035013, arXiv:1311.1248 [hep-ph].

Preprint

[1] N. Arsene, L. I. Caramete, P. B. Denton, and O. Micu, "Quantum Black Holes Effects on the Shape of Extensive Air Showers," arXiv:1310.2205 [hep-ph].

Conference

[1] **JEM-EUSO** Collaboration, P. B. Denton, L. A. Anchordoqui, A. A. Berlind, M. Richardson, and T. J. Weiler, "Sensitivity of orbiting JEM-EUSO to large-scale cosmic-ray anisotropies," *J.Phys.Conf.Ser.* **531** (2014) 012004, arXiv:1401.5757 [astro-ph.IM].

¹For the latest version see: peterdenton.github.io

Talks

- [1] "Spherical harmonics as a tool for finding anisotropies in under and astrophysical neutrino fluxes.". Invited talk given at the Danish Astroparticle Physics Meeting October 2016 in Odense.
- [2] "The standard neutrino oscillation parameters and a surprising alternative solution.". Invited N-Talk at Niels Bohr International Academy September 2016 in Copenhagen.
- [3] "Analytic and compact perturbative expressions for neutrino oscillations in matter." http://indico.cern.ch/event/432527/contributions/1071859/.
 Talk given at the International Conference of High Energy Physics August 2016 in Chicago, IL.
- [4] "Analytic and compact perturbative expressions for neutrino oscillations in matter." http://theory.fnal.gov/seminars/seminars.html. Invited talk at the Fermilab theory seminar July 2016 in Batavia, IL.
- [5] "Methods for probing new physics at high energies." https://events.vanderbilt.edu/index.php?eID=90084. Successful dissertation defense at Vanderbilt University June 2016 in Nashville, TN.
- [6] "Analytic and compact perturbative expressions for neutrino oscillations in matter." http://www.ccsem.infn.it/issp2016/index.html. Talk given at the International School of Subnuclear Physics May 2016 in Erice, Sicily.
- [7] "Analytic and compact perturbative expressions for neutrino oscillations in matter." https://indico.cern.ch/event/489180/contributions/2158195/. Talk given at Pheno May 2016 in Pittsburgh, PA.
- [8] "Cosmic ray anisotropy with partial sky exposure.". Invited seminar November 2015 at CCAPP.
- [9] "The effect of a maximum lepton energy on the stability of pions and cosmic ray physics." http://meetings.aps.org/link/BAPS.2015.APR.M14.1. Talk given at the APS April meeting 2015 in Baltimore, MD.
- [10] "Particle physics at the highest energies.". Invited seminar December 2014 at the University of Wisconsin Madison.
- [11] "Sensitivity of orbiting JEM-EUSO to large-scale cosmic-ray anisotropies.". Talk given at the Cosmic Ray Anisotropy Workshop September 2013 in Madison, WI.
- [12] "Using dispersion relations to look for new physics in pp elastic scattering at the LHC." http://meetings.aps.org/link/BAPS.2013.APR.H12.8. Talk given at the APS April meeting 2013 in Denver, CO.

Code

[1] P. B. Denton, "Nu-Pert v0.2.2: Analytic and compact perturbative expressions for neutrino oscillations in matter," June, 2016.

http://dx.doi.org/10.5281/zenodo.54629.

https://github.com/PeterDenton/Nu-Pert.