

# Publication List

Peter B. Denton

Updated: July 29, 2016<sup>1</sup>

## 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 \[astro-ph.IM\]](#).

---

<sup>1</sup>For the latest version see: [peterdenton.github.io](#)

## Talks

- [1] “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.
- [2] “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.
- [3] “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.
- [4] “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.
- [5] “Cosmic ray anisotropy with partial sky exposure.”. Invited seminar November 2015 at CCAPP.
- [6] “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.
- [7] “Particle physics at the highest energies.”. Invited seminar December 2014 at the University of Wisconsin – Madison.
- [8] “Sensitivity of orbiting JEM-EUSO to large-scale cosmic-ray anisotropies.”. Talk given at the Cosmic Ray Anisotropy Workshop September 2013 in Madison, WI.
- [9] “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>.