

Peter Denton

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Education

Ph.D. Physics, Vanderbilt University (in progress).

B.S. Physics, Rice University, 2010.

B.A. Mathematics, Rice University, 2010.

Honors and Awards

Division of Particles & Fields travel grant to the APS April 2013 meeting.

The Robert T. Lagemann Award for highest academic achievement by a first-year graduate student.

“Topping-up” McMinn Fellowship.

Employment

DOE funded RA with Dr. Weiler at Vanderbilt University, Spring 2011–Present.

TA at Vanderbilt University, Fall 2010–Fall 2012.

RA with Dr. Pantelides at Vanderbilt University, Summer–Fall 2010.

Lee Teng Internship at Fermilab with Dr. Sen, Summer 2009.

TA for the Physics Department at Rice University, Fall 2009.

Bonner Labs at Rice University with Dr. Llope, Summer 2008.

Writing consultant at Rice University, 2007–2010.

Research

Dr. Tom Weiler

The possibility of cosmic rays producing black holes in the atmosphere.

Cosmic ray anisotropy at the highest energies as seen through Pierre Auger Observatory and JEM-EUSO.

Beyond the standard model contribution to dispersion integrals for pp scattering at LHC energies.

Dr. Sokrates Pantelides

DFT calculations of radiation effects of graphene.

Dr. Marj Corcoran

Monte Carlo simulations looking for CP violation in $WW\gamma$ decays.

Hulet Atom Cooling Group with Dr. Randy Hulet

Design and construction of improved laser stabilization electronics.

Fermilab with Dr. Tanaji Sen

Work on reconstructing the longitudinal phase space in the Main Injector and the Recycler.

Bonner Labs with Dr. Bill Llope

Testing and designing components for TOF for STAR at BNL.

Confirming the long term accuracy of the calibration of electronics boards.

Testing various improvements of PMT's.

Language Skills

L^AT_EX, beamer, python, matplotlib, C++, ROOT, MATHEMATICA, MATLAB, FORTRAN, gnuplot, java, html, and javascript.

Teaching

English, math, and physics at middle school, high school, undergraduate, and graduate school levels.

Teaching assistant for various freshman physics labs.

Professional Societies

Member, American Physical Society