

Christopher Neu

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Professional and Academic History

- Assistant Professor August, 2008 – present. Department of Physics
University of Virginia, Charlottesville, VA.
- Postdoctoral fellow 2003 – 2008. Department of Physics and Astronomy
University of Pennsylvania, Philadelphia, PA.
- Ph.D. July, 2003. Physics, Ohio State University, Columbus, OH.
Thesis: “A Search for Higgs Production in Association with a W Boson
in Proton-Antiproton Collisions Using a Neural Network.”
Advisor: Prof. Brian L. Winer
- M.S. February, 2001. Physics, Ohio State University.
Candidacy Examination Topic: “Standard Model Higgs Production
at the Tevatron.”
- B.S. May, 1998. Physics, University of Illinois, Urbana, IL.
B.S. May, 1998. Mathematics, University of Illinois, Urbana, IL.

Research Experience

Compact Muon Solenoid (CMS), 2008–present:

- Contributions to ECAL simulation and DAQ system; VPT characterization studies
- Top and Higgs physics: electron HLT DQM, b -tagging algorithms, $t\bar{t}$ cross section measurement, plans for WH and $t\bar{t}H$ searches
- R&D for radiation-hard photodetectors for SLHC

Collider Detector at Fermilab (CDF), 1997–present:

- Measurement of the cross section of $W+b$ -jet production (2006–present).
- Search for WZ production in the $\ell\nu b\bar{b}$ final state (2007–present).
- Convener, High p_T b -tagging group (2005–2007).
- L2 trigger upgrade (2004–2006).
- Performed a Run 1 search for WH production (2001–2003), the first Higgs analysis at CDF using neural network based event selection.
- Development and integration of the eXtremely Fast Tracker (XFT) (1998–2001).
- Muon System upgrade, COT wireplane testing (1997–1998).