Curriculum Vitae

Personal Data

Evan K. Friis
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Education

Ph.D. 2011 Est.	University of California, Davis, Experimental High Energy Physics "Search for Higgs bosons decaying to τ leptons at $\sqrt{s} = 10$TeV" Thesis advisor: John Conway
B.S. 2005	University of California, San Diego, Physics

Research Experience

6/2009 - Present	CMS Electroweak Tau Physics group - Developed methods and software to measure τ identification background rates from data.
1/2009 - Present	Tau-ID liaison to Reconstruction Committee - Managed tau-ID software developers and coordinated with CMS collaboration.
6/2006 - Present	Compact Muon Solenoid (CMS) Tau-ID Group - Developed and optimized algorithms to identify and reconstruct τ leptons at hadron colliders.
8/2007 - 6/2008	CMS Pixel Detector Commissioning Group - Designed and implemented software to characterize and calibrate the 60 million channels in the CMS pixel detector.
9/2004 - 8/2005	Surko Plasma Physics Group (UCSD) - Developed high-speed control system for non-neutral positron plasma trap.
6/2004 - 8/2004	Princeton Plasma Physics Lab - Developed test stand for simulating large, high-frequency pressure variations found in pulsed excimer lasers.

Teaching Experience

January 5-9, 2010	Workshop Facilitator, EJTERM 2010, Fermi National Laboratory
F06, FW08, F09	UC Davis Physics 116A Electronics Lab Assistant - assisted in developing new curriculum using modern microcontrollers.

W06, S06	UC Davis Physics 9A General Physics Lab Assistant
F05	UC Davis Physics 7B General Physics Discussion/Lab TA

Publications

R. Adolphi et al. The CMS experiment at the CERN LHC. *JINST*, 0803:S08004, 2008

Serguei Chatrchyan et al. Precise Mapping of the Magnetic Field in the CMS Barrel Yoke using Cosmic Rays. 2009

E. K. Friis. Reconstruction and Identification of Hadronic Decays of Taus using the CMS Detector. 2008

The CMS Collaboration. CMS Strategies for tau reconstruction and identification using particle-flow techniques. 2008

E. K. Friis and C. A. Gentile. Empirical Bench-top Testing for Silicon Electron Beam Transmission Windows. *APS Meeting Abstracts*, pages 1051P–+, November 2004

Awards

Visiting Scholar, Scuola Normale Superiore, Pisa, Italy, Spring 2009

UC Davis Block Grant Recipient, 2005, Spring 2009

UC Davis GAANN Fellow, 2006-2007, Winter 2010