

TODD ADAMS

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CURRENT POSITION

Professor of Physics, Florida State University

Lead-PI, High Energy Physics group, Florida State University

POSITIONS HELD

Professor, Department of Physics, Florida State University (2013–present)

Lead-PI, High Energy Physics group, Florida State University (2018–present)

Faculty Senate President, Florida State University (2017–2019)

Associate Professor, Department of Physics, Florida State University (2008–2013)

URA Visiting Scholar, Fermi National Accelerator Laboratory (2009–2010)

Assistant Professor, Department of Physics, Florida State University (2001–2008)

Research Associate, Department of Physics, Kansas State University (1997–2001)

Research/Teaching Assistant, Department of Physics, University of Notre Dame (1991–1997)

EDUCATION

University of Notre Dame, Notre Dame, IN

August 1991 - May 1997

Ph.D., 1997, Department of Physics, Adviser: Prof. William D. Shephard

M.S., 1994, Department of Physics

Hope College, Holland, MI

August 1987 - May 1991

B.S., 1991, Department of Physics, Computer Science minor

RESEARCH PROJECTS

Compact Muon Solenoid (CMS) Experiment, CERN (2007–present)

D0 Experiment, Fermilab (2001–2012)

NuTeV Experiment, Fermi National Accelerator Lab (1997–2001)

E852 Experiment, Brookhaven National Lab (1991–1997)

Atomic Collision Lab, Hope College (1988–1991)

Other projects: **NuSONG** (2008–2009), **NLC** (1999–2000)

AWARDS & HONORS

The High Energy and Particle Physics Prize (as a member of the DØ Collaboration), European Physical Society (2019)

Fellow of the American Association for the Advancement of Science (2017)

Certificate of Excellence in Reviewing, Physics Letters B (2013)

The High Energy and Particle Physics Prize (as a member of the CMS Collaboration),

European Physical Society (2013)
FSU Committee On Faculty Research Support (2010, 2021)
URA Visiting Scholar Award (2009)
FSU Sabbatical (2009-2010, 2021)
FSU First Year Assistant Professor Award (2002)

LEADERSHIP POSITIONS

Lead-PI - FSU High Energy Physics group (2018–present)
President - FSU Faculty Senate (2017–2019)
Chair - U.S. CMS ECAL Institutional Board (2015–present)
President - Notre Dame Club of Tallahassee (2014–2016)
Chair - Fermilab Users Executive Committee (UEC) (2010-2011)
Convenor - DØ New Phenomena Physics Group (2007–2009)
Convenor - DØ Simulation Group (2006–2007)

BOARD MEMBERSHIP

Editorial Board, member for journal *Physics* (2019–present)
FSU Board of Trustees, Trustee (2017–2019)
FSU Foundation Board, Trustee (2017–2019)
FSU Athletic Board, member (2017–2019)
U.S. CMS ECAL Institutional Board, member (2009–present)
CMS ECAL Institutional Board, member (2009–present)
U.S. CMS Collaboration Board, member (2008–present)

PROFESSIONAL ORGANIZATIONS

American Association for the Advancement of Science (AAAS)
American Association of Physics Teachers (AAPT)
American Physical Society (APS)
European Physical Society (EPS)
Sigma Pi Sigma ($\Sigma\Pi\Sigma$)
Sigma Xi ($\Sigma\Xi$)
Society of Physics Students (SPS)
Society for Science at User Research Facilities (SSURF)
Tallahassee Scientific Society (TSS)

SELECTED REFEREED PUBLICATIONS

I have published more than 1,200 refereed journal articles as a member of the CMS, DØ, BNL E852, and NuTeV collaborations. This list includes only papers to which I have made a primary contribution.

1. Khachatryan, Vardan *et al.* [CMS Collaboration], “Search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV,” *Phys. Rev.* **D94**, 112004 (2016).
2. Chatrchyan, Serguei *et al.* [CMS Collaboration], “Searches for long-lived charged particles in pp collisions at $\sqrt{s}=7$ and 8 TeV,” *JHEP* **07**, 122 (2013).
3. Chatrchyan, Serguei *et al.* [CMS Collaboration], “Search for heavy long-lived charged particles in *pp* collisions at $\sqrt{s} = 7$ TeV,” *Phys. Lett.* **B713**, 408-433 (2012).

4. Khachatryan, Vardan *et al.* [CMS Collaboration], “Search for Heavy Stable Charged Particles in pp collisions at $\sqrt{s} = 7$ TeV,” JHEP **03**, 024 (2011).
5. Jie Chen and Todd Adams, “Heavy Stable Charged Particles Searches at the LHC”, Int. Jour. Mod. Phys. A **26**, 3315 (2011).
6. Jie Chen and Todd Adams, “Searching for High Speed Long-lived Charged Massive Particles at the LHC,” Eur. Phys. J. C, **67**, 335 (2010).
7. V. M. Abazov *et al.* [D0 Collaboration], “Search for Charged Higgs Bosons in Top Quark Decays,” Phys. Lett. B **682**, 278 (2009).
8. V. M. Abazov *et al.* [D0 Collaboration], “Combination of $t\bar{t}$ Cross Section Measurements and Constraints on the Mass of the Top Quark and its Decays into Charged Higgs Bosons,” Phys. Rev. D **80**, 071102(R) (2009).
9. V. M. Abazov *et al.* [D0 Collaboration], “Measurement of the $t\bar{t}$ Production Cross Section and Top Quark Mass Extraction Using Dilepton Events in $p\bar{p}$ Collisions,” Phys. Lett. B **679**, 177 (2009).
10. T. Adams, “Searches for Long-lived Particles at the Tevatron Collider,” Mod. Phys. Lett. A **23**, 371 (2008).
11. V. M. Abazov *et al.* [D0 Collaboration], “Search for Neutral Long Lived Particles Decaying to Two Muons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **97**, 161802 (2006).
12. T. Adams *et al.*, “Observation of an Anomalous Number of Dimuon Events in a High-Energy Neutrino Beam,” Phys. Rev. Lett. **87**, 041801 (2001).
13. M. Abolins *et al.*, “Design and Implementation of the New D0 Level-1 Calorimeter Trigger,” Nucl. Instrum. Meth. A **584**, 75 (2008).
14. T. Adams *et al.*, “Evidence for Diffractive Charm Production in $\nu_\mu Fe$ and $\bar{\nu}_\mu Fe$ Scattering at the Tevatron,” Phys. Rev. D, 092001 (2000).
15. T. Adams *et al.*, “Design and Performance of a Cesium Iodide Detector,” Nucl. Instrum. Methods **A368** (1996) 617.