

Curriculum Vitae

Paul L. Tipton

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Education

- 1979** B.S., Physics, SUNY Binghamton
Phi Beta Kappa, George E. Moore Award for Outstanding Undergraduate Research
- 1987** Ph.D., Physics, University of Rochester
Thesis Advisor, E.H. Thorndike, Dexter Prize for Outstanding Graduate Research, 1985

Appointments

- 1987-1990** Post-doctoral Fellow, Lawrence Berkeley Laboratory
1990-1991 Wilson Fellow, Fermi National Accelerator Laboratory
1991-1996 Assistant Professor, University of Rochester
1996-2000 Associate Professor, University of Rochester
2000-2006 Professor, University of Rochester
2006- Professor, Yale University
2013- Chair, Dept. of Physics, Yale University

Fellowships and Awards:

- National Science Foundation Young Investigator Award (1992—97)
- Outstanding Junior Investigator Award, U.S. Department of Energy (1991—1996)
- Univ. of Rochester Dept. of Physics and Astronomy Annual Award for Excellence in Teaching (1995)
- Teacher of the Year, Honorable Mention, University of Rochester Student's Association, (1994)
- Fellow, American Physical Society (2001—Present)

Selected Professional Activities and Scientific Collaborations:

- Co-convener of the CDF Top and B Quark Physics Group, (1990—1992)
- Head of Fermilab's CDF group constructing its first silicon vertex detector, SVX (1990—1992)
- Member of Physics Advisory Committee (PAC) for Fermilab's Directorate (2000—2005)
- Member, Editorial and Planning Committee for the journal *Annual Review of Nuclear and Particle Science (ARNPS)* (2003—2008)
- Spokesperson for the Principle Investigators, University of Rochester HEP DOE Grant (1999-2006)
- Spokesperson for the Principle Investigators, Yale University HEP DOE Grant (2007-2013)

- Member of the CDF Collaboration (1987—2012)
- Member of the ATLAS Collaboration (2006—Present)
- Director of Graduate Studies, Yale Physics Dept. (2010-2013)
- Member of the Stanford Linear Accelerator Scientific Policy Committee (2010-2014)
- Member of the Stanford Linear Accelerator PPA Advisory Panel (2011-2014)

Graduate (14) and Postdoctoral (12) Advisees:

- Ms. Michela Paganini (current graduate student)
 - Mr. Jared Vasquez (current graduate student)
 - Mr. Daniel Guest (now a Postdoctoral Research Associate at U.C. Irvine)
 - Mr. Richard Wall (now a Postdoctoral Research Associate at Rice University)
 - Dr. Benjamin Auerbach (now Data Scientist at Allstate Insurance)
 - Dr. Sarah Lockwitz (now a Postdoctoral Research Associate at Fermi National Lab)
 - Mr. Benjamin Kaplan (now a Postdoctoral Research Associate at NYU)
 - Ms. Jennifer Gimmel (now teaching at Loyola Academy, Wilmette, IL)
 - Dr. Ricardo Eusebi (now Assistant Prof. at Texas A&M University)
 - Dr. Andrew Ivanov (now Assistant Prof. at Kansas State University)
 - Dr. Mircea Coca (now a Resident in Ophthalmology and Visual Sciences at U.T Galveston)
 - Dr. Josh Cassada (now a member of the NASA Astronaut Corps)
 - Dr. Kirsten Tollefson (now an Assoc. Prof at Michigan State University)
 - Dr. Phillip Koehn (now at Institute for Defense Analysis, Washington, D.C.)
 - Dr. Gordon Watts (now Prof. of Physics at University of Washington).
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- Dr. Andrei Loginov (current postdoctoral fellow)
 - Dr. Johannes Erdmann (now an *Akademischer Rat* at the Technical Institute at Dortmund)
 - Dr. Jahred Adelman (now an Assistant Prof. at Northern Ill. University)
 - Dr. Daniel Sherman (now a Data Scientist at Apple)
 - Dr. Ulrich Husemann (now an Assistant Prof. at Karlsruhe Institute of Technology)
 - Dr. Andy Hocker (now a Scientist, Fermilab)
 - Dr. Eva Halkiadakis (now Assoc. Prof. at Rutgers University)
 - Dr. Steven Blusk (now Assoc. Prof. at Syracuse University)
 - Dr. Mark Kruse (now the Fuchsberg-Levine Family Assoc. Professor at Duke University)
 - Dr. Yi Cen (now at Hewlett Packard)
 - Dr. Richard Hughes (now Professor at The Ohio State University)
 - Dr. Brian Winer (now Professor at The Ohio State University).

Selected Publications from Tipton's group (of more than 900 total)

- Measurement of Higgs Boson fiducial cross-section in the diphoton decay channel in pp collisions at centre-of-mass energy of 13 TeV with the ATLAS detector, ATL-COM-PHYS-2015-1388, <https://cds.cern.ch/record/2103377>
- Observation of top-quark pair production in association with a photon and measurement of the $t\bar{t}\gamma$ production cross section in pp collisions at $s\sqrt{=7}$ TeV using the ATLAS detector, G. Aad et al. (ATLAS Collaboration), Phys. Rev. D 91, 072007 (2015).
- Search for $H\rightarrow\gamma\gamma$ produced in association with top quarks and constraints on the Yukawa coupling between the top quark and the Higgs boson using data taken at 7 TeV and 8 TeV with the ATLAS detector, Phys. Lett. B (2015), pp. 222-242
Search for Scalar-Charm Pair Production in pp Collisions at $s\sqrt{=8}$ TeV with the ATLAS Detector, <http://arxiv.org/abs/1501.01325>, Phys. Rev. Lett. 114, 161801 (2015).
- Search For Higgs Boson Pair Production in the $\gamma\gamma b\bar{b}$ Final State using pp Collision Data at $\sqrt{s}=8$ TeV from the ATLAS Detector, <http://arxiv.org/abs/1406.5053>, PRL 114, 081802 (2015).
- A study of heavy flavor quarks produced in association with top quark pairs at $\sqrt{s} = 7\text{TeV}$ using the ATLAS detector, Phys. Rev. D 89, 072012 (2014).
- Measurement of the mass difference between top and antitop quarks in pp collisions at $\sqrt{s} = 7\text{TeV}$ using the ATLAS detector, Physics Letters B 728C (2014), pp. 363-379.
- Search for $t\bar{t}H$ production in the $H \rightarrow \gamma\gamma$ channel at $\sqrt{s} = 8$ TeV with the ATLAS detector, ATLAS-CONF-2013-080 (2013).
- Measurements of the properties of the Higgs-like boson in the two photon decay channel with the ATLAS detector using 25 fb⁻¹ of proton-proton collision data, ATLAS-CONF-2013-012 (2013).
- Search for New Phenomena in Events with Three Charged Leptons at $\sqrt{s} = 7$ TeV with the ATLAS Detector, The ATLAS Collab., arXiv:1211.6312, submitted to Phys. Rev. D. (2012)
- Combined Search for the Standard Model Higgs Boson Decaying to a $b\bar{b}$ Pair Using the Full CDF Data Set, T. Aaltonen et al., The CDF Collab., Phys. Rev. Lett. 109, 111802 (2012).
- Search for New Phenomena in Events with Three or more Charged Leptons, The ATLAS Collaboration, ATLAS-CONF-2011-158 (2011).
- Search for pair production of first or second generation leptoquarks in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC, The ATLAS Collab., Phys. Rev. D 83, 112006 (2011).
- Evidence for $t\bar{t}+\gamma$ Production and Measurement of $\sigma(t\bar{t} + \gamma) / \sigma(t\bar{t})$, The CDF Collab., Phys. Rev. D 84, 031104 (2011).
- Evidence for Top Quark Production in Proton-Antiproton Collisions at $\sqrt{s} = 1.96$ TeV, F. Abe et al. (CDF Collaboration), Phys. Rev. Lett. 73, 225 (1994).
- The Discovery of the Top Quark, T. Liss and P. Tipton, in *Scientific American*, pp 54-59, September 1997.