

Craig Blocker

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Education

- 1980 Ph.D., Physics/High Energy Physics, University of California at Berkeley, adviser: William Chinowsky
- 1976 M.S., Physics, University of California at Berkeley
- 1974 B.S., Physics, University of Nebraska

Professional Positions

- 1991–present Professor, Brandeis University
- 2000–2003 Chair, Brandeis Physics Department
- 1991–1994 Senior Scientist, SSC Lab (on leave from Brandeis)
- 1985–1991 Associate Professor, Brandeis University
- 1982–1985 Assistant Professor, Harvard University
- 1980–1982 Research Associate with Roy Schwitters, Harvard University

Selected Professional Activities

- 2013–present Level 3 Manager for Muon Alignment WBS of the ATLAS Phase 1 Upgrade
- 2004–2007 CDF representative to the Heavy Flavor Averaging Group (HFAG)

Experimental Collaborations

- 2005–present ATLAS at CERN
- 1982–2008 CDF at Fermilab
- 1991–1993 SDC at SSC
- 1980–1982 Mark II at PEP
- 1976–1980 Mark II at SPEAR

Postdoctoral Scholars Advised

Sami Dhaliwal, 2014-present
W. David Dagenhart, 2001-2009, now with Fermilab Computing Division
Jodi Lamoureux, 1995-1999, now a scientist at Lawrence Berkeley Labs
John Cunningham, 1991-1995, now Professor of Physics at Loyola University
Phil Kesten, 1986-1990, now Assoc. Professor and Assoc. Provost at Santa Clara Univ.
Steve Behrends, 1986-1998, now scientist at Lincoln Labs

Students Advised

David Dodsworth and Kelsey O'Connor, current Ph.D. students on ATLAS
Glenn Amundsen, Ph.D. 2016 (ATLAS), now with financial firm
Lou Bianchini, Ph.D. 2015 (ATLAS)
Keith Zengel, Ph.D. 2015 (ATLAS), now lecturer at Harvard
Laurel Coffey, Ph.D. 2014 (ATLAS), in public education
Serdar Gozpinar, Ph.D. 2012 (ATLAS), Assistant Prof. at SUNY Buffalo
Dan Pomeroy, Ph.D. 2012 (ATLAS), Program Manager for MIT's Policy Lab
Scott Aefsky, Ph.D. 2011 (ATLAS), now in industry
David Clark, Ph.D. 2011 (CDF), now in industry
Natasia Miladinovic, Ph.D. 2008 (CDF), now a lecturer at the University of Nebraska
Hongquan Niu, Ph.D. 2003 (CDF), now a radiology physicist with hospital in Boston area
Mike Kirk, Ph.D. 2003 (CDF), now a radiology physicist with hospital in Boston area
Steve Moulding, Ph.D. 1993 (CDF), now working with financial company
Bob Mattingly, Ph.D. 1992 (CDF), now in industry

Collaborators: ATLAS Collaboration

Selected Publications

A search for an excited muon decaying to a muon and two jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector, ATLAS Collaboration, New J. of Phys. **18**, (2016) 073021, <http://iopscience.iop.org/article/10.1088/1367-2630/18/7/073021>.

Search for a Heavy Neutral Particle Decaying to $e\mu$, $e\tau$, or $\mu\tau$ in pp Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector, ATLAS Collaboration, Phys. Rev. Lett **115**, 031801 (2015), <http://journals.aps.org/prl/abstract/10.1103/PhysRevLett.115.031801>.

U.S. ATLAS Phase 1 Upgrade Project Final Design Report, August 2014 (editor of muon chapter).

Search for a heavy narrow resonance decaying to $e\mu$, $e\tau$ or $\mu\tau$ with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC, ATLAS Collaboration, Phys. Lett. B **723**, 15 (2013), <http://www.sciencedirect.com/science/article/pii/S0370269313003249>.

Search for excited leptons in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector, ATLAS collaboration, <http://journals.aps.org/prd/abstract/10.1103/PhysRevD.85.072003>, PRD **85**, 072003 (2012).

Recent Conference Talks and Seminars/Colloquia

Search for Lepton Flavor Violation with ATLAS, CLFV2016 conference, University of Virginia, Charlottesville, VA, June 22, 2016.

LHC Lepton Flavor Violation - ATLAS, NuFact 2015, Rio de Janeiro, Brazil, August 11, 2015.

Endcap Alignment System in Run 2, USATLAS Workshop 2015, University of Illinois at Urbana-Champaign, June 24, 2015.

Current status of RPV searches at ATLAS, SUSY at the New Energy Frontier, Fermilab, November 12, 2013.