

BIOGRAPHICAL SKETCH
JOHN M. BUTLER

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Education and Training

Ph.D. in physics, 1986, Stanford University
Dissertation: “Measurement of the Charged and Neutral D Meson Lifetimes”
Advisor: Prof. Joseph Ballam
B.S. in physics, with high honors, 1980, University of Notre Dame

Research and Professional Experience

2008-2009 Visiting Researcher, CEA Saclay, Gif sur Yvette, France
2004-present Professor of Physics, Boston University
2003-2006 Project Director, Boston University DOE HEP Umbrella Grant
2003-2006 Associate Chairman, Department of Physics, Boston University
1998-2004 Associate Professor (with tenure), Boston University
1995-1998 Associate Professor, Boston University
1991-1995 Associate Scientist, Fermi National Accelerator Laboratory
1988-1991 Research Associate, Fermi National Accelerator Laboratory
1986-1988 Scientific Associate, CERN, Geneva, Switzerland
1980-1986 Research Assistant, Stanford Linear Accelerator Center

Awards

1986-1988 European Laboratory for Particle Physics (CERN) Fellowship
1997 Department of Energy Outstanding Junior Investigator Award
2013 High Energy and Particle Physics Prize of the European Physical Society
(with the ATLAS and CMS collaborations)

Selected Publications

See for <https://twiki.cern.ch/twiki/bin/view/AtlasPublic> a complete list of my ATLAS publications.

1. ATLAS Collaboration, *Search for triboson $W^{\pm}W^{\pm}W^{\mp}$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector*, accepted for publication in EPJC, arXiv:1610.05088 [hep-ex].
2. ATLAS Collaboration, *Measurement of W^{\pm} and Z-boson production cross sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector*, Phys. Lett. B 759 (2016) 601.
3. ATLAS Collaboration, *Combination of searches for WW , WZ , and ZZ resonances in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector*, Phys. Lett. B 755 (2016) 285-305.
4. ATLAS Collaboration, *Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector*, JHEP **09** (2014) 37.
5. ATLAS Collaboration, *Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC*, Phys. Lett. B 716 (2012) 1-29.
6. ATLAS Collaboration, *Search for high-mass dilepton resonances decaying to dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment*, JHEP 1211 (2012) 138.

7. ATLAS Collaboration, *Performance of the ATLAS muon trigger in 2011*, ATLAS-CONF-2012-099, <https://cdsweb.cern.ch/record/1462601>.
8. ATLAS Collaboration, *Search for contact interactions in dilepton events from pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*, Phys. Lett. B **712** (2012) 40.
9. ATLAS Collaboration, *Search for dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*, Phys. Rev. Lett. **107** (2011) 272002.
10. ATLAS Collaboration, *Search for high mass dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment*, Phys. Lett. B **700** (2011) 163.

Invited Talks

- *Search for high-mass resonances and other exotica at the LHC*, Rencontres de Moriond, La Thuile, March 2013.
- *Search for the Higgs Boson with the ATLAS Detector at the CERN Large Hadron Collider*, Dartmouth College Colloquium, April 20, 2012.

Synergistic Activities

- Leader of the DØ Muon System group, head of the DØ operations group, and DØ Run Coordinator during Tevatron Run I
- Co-leader of the DØ Muon System upgrade for Tevatron Run II
- Leader of the DØ Muon Centroid Electronics project
- Chair of the ATLAS HLT Muon Task Force
- ATLAS Exotics Group Data Coordinator and Physics Analysis Tools Liaison
- Chair of the US ATLAS Management Advisory Committee
- Elected member of the ATLAS Speakers Committee
- Proposal reviewer for DOE, NSF, IEEE, CRDF (U.S. Civilian Research and Development Foundation) and European Research Council
- Panel reviewer for DOE and European Research Council

Recent Undergraduate Student Advisees

- Karishma Sekhon: graduated 2012, now a graduate student at the U. of Michigan

Recent Graduate Student Advisees

- Jeremy Love: graduated 2011, Assistant Scientist with Argonne National Laboratory
- Alex Long: graduated 2016, Field Engineer with Tamr, Inc.
- Efe Yigitbasi: currently at Boston University

Recent Postdoctoral Advisees

- Robert Harrington: Silicon Detector Lab Technical Coordinator at Brown University
- Louis Helary: CERN Fellow
- Zhen Yan: currently at Boston University