**Andrew Brandt, Ph.D.**

**University of Texas at Arlington**

**A. Education and Training:**

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| College of William and Mary | Physics, Economics | B.S., 1985 |
| University of California, Los Angeles | Physics | M.S., 1988 |
| University of California, Los Angeles | Physics | Ph.D., 1992 |
| Fermi National Accelerator Laboratory | Postdoctoral Fellow | 1992-1995 |
| Fermi National Accelerator Laboratory | Wilson Fellow | 1996-1999 |

**B. Research and Professional Experience:**

2010 – Professor, The University of Texas at Arlington, Texas

2004-2010 Associate Professor, The University of Texas at Arlington, Texas

1999-2004 Assistant Professor, The University of Texas at Arlington, Texas

**C. Publications related to the proposed project:**

1. ``Search for charged Higgs bosons decaying via H+ →  in fully hadronic final states using pp collision data at √s = 8 TeV, with the ATLAS detector,” (ATLAS Collaboration), JHEP03 88 (2015); arxiv:1412.6663.”
2. “Search for charged Higgs bosons produced in association with a top quark and decaying via H+ →  using pp collision data recorded at √s = 13 TeV by the ATLAS detector, Phys. Lett. B 759 (2016) 555-574, arxiv:1603.09203.
3. “Expected Performance of the ATLAS Experiment: Detector Trigger and Physics,'' ATLAS Collaboration, arXiv:0901.0512 CERN-OPEN-2008-020. ISBN: 978-92-9083-321-5.
4. “Expected pileup values at the HL-LHC,” ATL-UPGRADE-PUB-2013-014.
5. “The FP420 R&D Project: Higgs and New Physics with Forward Protons at the LHC,” FP42Collaboration, arXiv:0806.0302v2 [hep-ex]; J. Inst.: 2009\_JINST\_4\_T10001. “A Forward Proton Detector at DZero,” A. Brandt *et al*., Fermilab Proposal P-900, FERMILAB-PUB-97-377.
6. ``Letter of Intent for the Phase-I Upgrade of the ATLAS Experiment,'' CERN-LHCC-2011-012 LHCC-I-020; <https://cds.cern.ch/record/1402470>
7. “A Particle Consistent with the Higgs Boson Observed with the ATLAS Detector at the Large Hadron Collider'', Science 338 (2012) 1576-1582”
8. ``Design of Cherenkov bars for optical part of Time-of-flight detector in Geant 4,” A.Brandt, L. Nozka; Optics Express. <http://www.opticsinfobase.org/oe/upcomingissue.cfm>
9. ``Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC," New J. Phys. 13 053033 (2011); CERN-PH-EP-2010-079; arXiv:1012.5104.
10. “Search for the Standard Model Higgs Boson in Tau Lepton Pair Final States”

V. M. Abazov et al. (D0 Collaboration), Phys. Rev. D 88, 052005;arXiv:1203.4443.

**D. Synergistic Activities:**

1. Established and led ATLAS Trigger Rates Group (2008-2010)

2. U.S ATLAS L2 Manager for AFP in Phase 1 Upgrade CD-0 (2012-2013)

3. Supervised grad students on Diffractive Higgs, SM Higgs, and post-doc on charged Higgs (2010-2016)

4. Spokesman of T958, Fermilab Test Beam Experiment on picosecond timing (2006-2015)

5. Proposed, initiated, and led DZero Forward Proton Detector group (1996-2006)

**E. Collaborators and Other Affiliations**

**Collaborators: ATLAS Collaboration,** Hal Evans (Indiana), Elliot Lipeles (Penn), Mark Oreglia (Chicago), Michael Reeijjsenbeek (Stony Brook)

**Graduate and Postdoctoral Advisors:**

Graduate – H. Montgomery (Jefferson Lab)

Postdoctoral – P. Schlein (UCLA, deceased)

**Thesis Advisor and Postgraduate-Scholar Sponsor:**

*Past graduate students:*

Michael Strang (Ph.D. Physics, 2005) Ohio State; Pedro Duarte (M.Sc. Physics, 2007) Data Engineer Altx, Berkeley, CA; Arnab Pal (Ph.D. Physics, 2013) Ninah Consulting, Gurgaon, India; Ian Howley (Ph.D. Physics, 2013) NASA Marshal Space Flight Center.

*Post-doctoral Fellows:*

Christophe Royon (2000-2002) Kansas, Pierrick Hanlet (2001-2002) Illinois Institute of Technology, Duncan Brown (2004-2007) Fermilab, Edward Sarkisyan-Grinbaum (2008-2012) CERN,

Justin Griffiths (2013-) UTA