

Haleh Hadavand

Education and Training

Undergraduate: University of Maryland College Park

College Park, MD

Sep 1995 - Jun 1999

Degree: BS in Physics, June 1999.

Graduate: University of California San Diego

La Jolla, CA

Aug 1999 - Sept 2005

Degree: Ph.D. in High Energy Physics Dissertation: “The Measurement of CP Asymmetries in the Three-body Charmless B_d Meson Decay to $K_S^0 K_S^0 K_S^0$ at BABAR ”

Thesis adviser: David MacFarlane.

Research and Professional Experience

Assistant Professor

University of Texas Arlington

Nov 2014 - Present

Research Faculty

University of Texas Arlington

July 2012 - Oct 2014

Postdoctoral Fellow

Southern Methodist University

Sept 2005-July 2012

Graduate Research Assistant

UCSD on BABAR experiment

Jun 1999 - Sept 2005

Relevant Publications

- [1] The ATLAS Collaboration, Search for charged Higgs bosons produced in association with a top quark and decaying via $H^\pm \rightarrow \tau\nu$ using pp collision data recorded at $\sqrt{s} = 13$ TeV by the ATLAS detector, Phys. Lett. B **759** (2016) 555-574, arxiv:1603.09203.
- [2] The ATLAS Collaboration, ”Search for charged Higgs bosons decaying via $H^\pm \rightarrow \tau^\pm\nu$ in fully hadronic final states using pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector”, JHEP03 (2015) 088.
- [3] The ATLAS Collaboration, ”A Search for Charged Higgs Bosons in the τ +jets Final State with pp Collision Data Recorded at $\sqrt{s} = 8$ TeV with the ATLAS Experiment”, ATLAS-CONF-2013-090 (2013).
- [4] The ATLAS Collaboration, “Search for extra dimensions using diphoton events in 7 TeV proton-proton collisions with the ATLAS detector”, Phys. Lett. B **710**, 538-556 (2012).
- [5] The ATLAS Collaboration, “Search for Diphoton Events with Large Missing Transverse Energy in 7 TeV Proton-Proton Collisions with the ATLAS Detector”, Phys. Rev. Lett. **106**, 121803 (2011).
- [6] Ilchenko, Y., Cuenca-Almenar, C. , Corso-Radu, A., Hadavand, H. Kolos, S, Slagle, K., Taffard, A., “Data Quality Monitoring Display for ATLAS experiment”, J. Phys. Conf. Ser. **219**, 022035 (2010).
- [7] H. Hadavand [ATLAS Collaboration], “Commissioning of the ATLAS offline software with cosmic rays”, J. Phys. Conf. Ser. **119**, 032021 (2008).
- [8] S. Kolos, A. Corso-Radu, H. Hadavand, M. Hauschild, R. Kehoe, “A software framework for Data Quality Monitoring in ATLAS”, J. Phys. Conf. Ser. **119**, 022033 (2008).
- [9] B. Aubert *et al.* [BABAR Collaboration], “Branching Fraction and CP Asymmetries in $B^0 \rightarrow K_S^0 K_S^0 K_S^0$ ”, Phys. Rev. Lett. **95**, 011801 (2005).

- [10] B. Aubert *et al.* [BABAR Collaboration], “Measurement of the B^+/B^0 production ratio from the $\Upsilon(4S)$ meson using $B^+ \rightarrow J/\psi K^+$ and $B^0 \rightarrow J/\psi K_S^0$ decays”, Phys. Rev. D **69**, 071101 (2004). “New Physics results from the BABAR Collaboration”, July 2005.

Synergistic Activities

Invited Talks

- [11] Lake Louise Winter Institute, Lake Louise, Alberta, Canada, “Beyond-the-Standard Model Higgs and Invisible Higgs Decays Using the ATLAS Experiment”, February 2014.
- [12] Photon 2011 Conference at Spa, Belgium, “New Physics Searches with Photons at the ATLAS and CMS Experiments”, May 2011.
- [13] Beyond Standard Model Physics Conference, Boston, MA., “Beyond the Standard Model Photon Physics at the ATLAS and CMS Experiments at the Large Hadron Collider”, June 2009.

Leadership Experience

- Charged Higgs convenor on the ATLAS experiment.
- Co-editor of paper and conference note on extra dimension diphotons resonances [3, 4].
- co-editor and analysis contact for paper *Search for Diphoton Events with Large Missing Transverse Energy in 7 TeV Proton-Proton Collisions with the ATLAS Detector* [5].

Collaborators and Co-editors

Maria Pilar Casado, Universitat Autònoma de Barcelona, Arnaud Ferrari, Uppsala University, Thomas Junk, Fermilab, Anna Kopf, Freiburg University, Allison McCarn, University of Michigan, Henrik Ohman, Uppsala University, Michael Pitt, Weizmann Institute of Science, John Parsons, Columbia University, Nikolaos Rompotis, University of Wisconsin, Jana Schaarschmidt, Weizmann Institute of Science, Stephen Sekula, Southern Methodist University, Camila Rangel Smith, Uppsala University, Michelle Stancari, Fermilab, Micheal Pitt, Weizmann Institute of Science, Dhiman Chakraborty, Northern Illinois University.

Graduate and Postdoctoral Advisors and Advisees

Yuriy Ilchenko, UT Austin, David MacFarlane, Stanford University, Bob Kehoe, Southern Methodist University, Ryszard Stroynowski, Southern Methodist University.