

BIOGRAPHICAL SKETCH for Scott W. Wissink
Department of Physics and Center for Exploration of Energy and Matter
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Professional Preparation

Hope College	Physics, A.B. (Summa Cum Laude)	1976
Stanford University	Physics, Ph.D. (Nuclear Physics)	1983
Indiana University	Physics, Research Associate	1983 – 1987

Appointments

Indiana University, Bloomington	Director, Center Explo Energy Matter	2010 – present
Indiana University, Bloomington	Professor, Dept. of Physics	2000 – present
Indiana University, Bloomington	Associate Professor, Dept. of Physics	1992 – 2000
Indiana University, Bloomington	Assistant Professor, Dept. of Physics	1987 – 1992

Recent / relevant publications:

“Longitudinal double-spin asymmetries for dijet production at intermediate pseudorapidity in polarized pp collisions at $\sqrt{s} = 200$ GeV.” J. Adam *et al.* (STAR Collaboration), submitted to Phys. Rev. D, May 2018, arXiv:1805.09742 [hep-ex]

“Transverse spin-dependent azimuthal correlations of charged pion pairs measured in $p^\uparrow + p$ collisions at $\sqrt{s} = 500$ GeV.” L. Adamczyk *et al.* (STAR Collaboration), Phys. Lett. B **780**, 332 (2018).

“Measurement of the cross section and longitudinal double-spin asymmetry for dijet production in polarized pp collisions at $\sqrt{s} = 200$ GeV.” L. Adamczyk *et al.* (STAR Collaboration), Phys. Rev. D **95**, 071103 (2017).

“Measurement of the transverse single-spin asymmetry in $p^\uparrow + p \rightarrow W^\pm/Z^0$ at RHIC.” L. Adamczyk *et al.* (STAR Collaboration), Phys. Rev. Lett. **116**, 132301 (2016).

“Precision measurements of the longitudinal double-spin asymmetries for inclusive jet production in polarized proton collisions at $\sqrt{s} = 200$ GeV.” L. Adamczyk *et al.* (STAR Collaboration), Phys. Rev. Lett. **115**, 92002 (2015).

“Measurement of longitudinal spin asymmetries for weak boson production in polarized proton-proton collisions at RHIC.” L. Adamczyk *et al.* (STAR Collaboration), Phys. Rev. Lett. **113**, 72301 (2014).

“Neutral pion cross section and spin asymmetries at intermediate pseudorapidity in polarized proton collisions at $\sqrt{s} = 200$ GeV.” L. Adamczyk *et al.* (STAR Collaboration), Phys. Rev. D **89**, 12001 (2014).

“Longitudinal and transverse spin asymmetries for inclusive jet production at mid-rapidity in polarized p+p collisions at $\sqrt{s} = 200$ GeV.” L. Adamczyk *et al.* (STAR Collaboration), Phys. Rev. D **86**, 32006 (2012).

“Measurement of the $W \rightarrow e\nu$ and $Z/\gamma^* \rightarrow e^+e^-$ production cross sections at midrapidity in proton-proton collisions at $\sqrt{s} = 500$ GeV.” L. Adamczyk *et al.* (STAR Collaboration), Phys. Rev. D **85**, 92010 (2012).

“Measurement of the parity-violating longitudinal single-spin asymmetry for W^\pm boson production in polarized proton-proton collisions at $\sqrt{s} = 500$ GeV.” M.M. Aggarwal *et al.* (STAR Collaboration), Phys. Rev. Lett. **106**, 062002 (2011).

“Forward neutral pion transverse single spin asymmetries in pp collisions at $\sqrt{s} = 200$ GeV.” B.I. Abelev *et al.* (STAR Collaboration), Phys. Rev. Lett. **101**, 222001 (2008).

“Measurement of transverse single-spin asymmetries for di-jet production in proton-proton collisions at $\sqrt{s} = 200$ GeV.” B.I. Abelev *et al.* (STAR Collaboration), Phys. Rev. Lett. **99**, 142003 (2007).

Synergistic Activities

- Director of the Center for Exploration of Energy and Matter (CEEM), an IU research center for programs in Nuclear, Accelerator, and Condensed Matter Physics, 2010 – present
- Director of Undergraduate Studies, IU Department of Physics, 2012 – present
- Deputy Spokesperson for the STAR Collaboration, responsible for general oversight of the spin physics program, 2010 – 2013
- Member of the GRE National Board of Examiners for the GRE Physics exam, 2008 – 2014
- Chaired a departmental committee to revamp our undergraduate curriculum for the B.S. degree, to better prepare our physics majors for the GRE (and to face graduate courses), to ensure that most would complete the program in four years, and to allow more time for research in the senior year.

Collaborators and Other Affiliations

STAR Collaboration at RHIC, Brookhaven National Laboratory (Helen Caines (Yale) and Zhangbu Xu (BNL) spokespersons). See [http:// www.star.bnl.gov/central/collaboration/authors/authorList.php](http://www.star.bnl.gov/central/collaboration/authors/authorList.php) for a complete list of collaborators.

Ph.D. Thesis Advisor: Stanley S. Hanna (Stanford University)

Postdoctoral Sponsors: Steven E. Vigdor and Edward J. Stephenson (both of Indiana University)

Ph.D. students supervised: 10 completed Ph.D.'s: Allena Opper (George Washington University, NSF); Steven Wells (Louisiana Tech); Sonya Bowyer (Pacific Northwest Lab); William Franklin (MIT); Chou Yu (Anthem); Haichuan Yang (Indiana University); Weihong He (University of Texas – San Antonio), Justin Stevens (William & Mary), Brian Page (BNL), Ting Lin (Texas A&M). Currently supervising: William Solyst, Joseph Kwasizur, Dmitri Kalinkin.

Postdoctoral Fellows supervised in last 5 years: Seema Dhamija, Michael Skoby, Huanzhao Liu.