

Professor Abhay L. Deshpande

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Employment

- Professor, Stony Brook University (2013-Present)
- Director of Undergraduate Studies, Physics & Astronomy (2010-2014)
- Associate Professor with Tenure, Stony Brook University (2008-2012)
- Assistant Professor & RIKEN Fellow Stony Brook University (2004-2007)
- RIKEN BNL Research Center Fellow (2000-2003)
- Associate Research Scientist & Post doctoral fellow, Yale University (1995-99)

Education

- Ph. D. Experimental High Energy Physics, Yale University (1995)
- M.Sc. Physics, Indian Institute of Technology, Kanpur, India (1987)
- B. Sc. Physics, University of Bombay (1985)

Interests/Research:

- Quantum Chromodynamics (QCD): Gluons in QCD, Nucleon Spin
- Understanding natural laws employing “spin” as a probe: Precision Electro-Weak (EW) & Beyond the Standard Model (BSM) physics
- How we learn & developing effective teaching techniques and tools

Honors, Awards and Fellowships

- American Physical Society Fellow (2014)
- RIKEN President’s Special Prize for contributions to study of Nucleon Spin (2015)
- National Academy of Science’s Education Fellow, Life Sciences (2013)
- Sr. Fellow of the RIKEN BNL Research Center (2008-Present)
- Visiting Professor, Tata Institute of Fundamental Research (2014-Present)
- Visiting Professor, Indian Institute of Technology (Bombay & Kanpur, 2012-Present)
- Visiting Professor, University of Adelaide, Australia (2014)
- Dept. of Physics & Astronomy @ SBU, Meritorious Faculty Award (2005, 07, 09)
- RIKEN-BNL Research Center Fellow @ Brookhaven National Lab (2000-2007)
- Visiting Fellowship, Japanese Society of Promotion of Science (1998)
- Gibbs Medal (Valedictorian) University of Bombay (1985)

Author of ~350+ peer reviewed publications, detailed list provided upon request

- InSpire: h-index ~90
- ~ 10 reviews (+2 in progress) and edited scientific volumes

Other:

~220+ invited talks, seminars at national and international conferences

~50 Workshops, and national & international Meetings Organized

~10 International Advisory Committees of Laboratories, Research Centers Conferences, Workshops

~15 University, College of Science & Departmental Committees at Stony Brook
~25+ Ph.D. Defense committees in the Physics and Astronomy departments at Stony Brook
& External reviewer for Columbia, Kyoto, Tokyo University
Reviewer for US (DoE, NSF), UK, French grants and prize funding agencies, and US Journals
Reviewer for international journals

Project Director and Principle Investigator (PI) of Grants and the Group

- DOE Nuclear Physics (Medium Energy) Grant (2005-Present) for RHIC Spin Physics.
- 11 Graduate students, 4 post doctoral fellows, 30+ undergraduate researchers
- BNL LDRDs and Detector R&D Grants, Electron Ion Collider (2001-present)

Scientific Collaboration and Leadership Positions in Scientific Collaborations

- US Electron Ion Collider (EIC) Project: (1999-present, *founder, principal contact*)
- SoLID Experiment at Jefferson Laboratory, Newport News (2013-present)
- MOLLER Experiment at Jefferson Laboratory, Newport News (2013-present)
- PHENIX Detector Collaboration at BNL (2000-Present) (Physics WG Convener, Run-Coordinator, Member of the Executive Committee)
- IP12 Local Polarimetry Collaboration (at BNL: 1999-2002, Spokesperson)
- ZEUS Detector Collaboration (at DESY: 1998-2003, Physics WG Convener, Polarimetry WG Coordinator)
- Spin Muon Collaboration (SMC at CERN: 1994-2000, Physics WG Convener, Polarized Target Group Leader)
- E851 Collaboration (at BNL: 1989-1994, Lead Ph.D. student)

Affiliations and Positions in the National & International Organizations/Committees

- Member, Nuclear Science Advisory Committee (NSAC, 2014-2017)
- Member, the NSAC Long Range Planning Committee (2006-2007, 2014-2015)
- Life Member, American Association for Advancement of Science
- Life Member, American Physics Society
- Member, American Physical Society, Fellow Selection Committee (2016-2019)
- APS, Division of Nuclear Physics, Program Committee (2005-2008)
- Chair, APS Conference of Undergraduate Women in Physics (N.E. Corridor), 2014
- RHIC AGS Users Executive Council (Member: 2005-2008, Chair: 2008-2010)