

Professor Abhay L. Deshpande

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Employment

- Professor, Stony Brook University (2013-Present)
- Director of Science, Electron Ion Collider (EIC) at Brookhaven National Laboratory (2017-present)
- Founding Director, Center for Frontiers in Nuclear Science at Stony Brook University (2017-present)
- Director of Undergraduate Studies, Physics & Astronomy (2009-2014)
- 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 (1995-1999)

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): QCD (structure of visible matter), Nucleon Spin
- Understanding natural laws employing “spin” as a tool: 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 & Dep. Group Leader of the RIKEN BNL Research Center (2008-Present)
- Visiting Professor, Tata Institute of Fundamental Research (2014-2015)
- Visiting Professor, Indian Institute of Technology (Bombay & Kanpur, 2012-2013)
- 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 ~400+ peer reviewed publications

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

Other:

~230+ invited talks, seminars at national and international conferences
~50 Workshops, and national & international Meetings Organized
~15 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
Reviewer for Physics Review & International journals

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

- DOE Nuclear Physics (Medium Energy) Grant (2005-Present) for RHIC Spin and JLab Physics program
- 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), *Elected First Chair of Steering Committee/Spokesperson* of the world wide User Group/Collaboration of ~700+ researchers (2016-2017)
- US Electron Ion Collider (EIC) Project: (1999-2016, *principal contact*)
- SoLID Experiment at Jefferson Laboratory, Newport News (2014-present)
- MOLLER Experiment at Jefferson Laboratory, Newport News (2014-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

- Co-Chair, Symposium on the promotion of Minority Undergraduate Student Research at BNL (2017)
- 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 Physical 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)