

## **Bio: Abhay Deshpande**

**Abhay Deshpande** is a Professor in the department of Physics and Astronomy at Stony Brook University (SBU-SUNY). He also serves as Director of Science for the Electron Ion Collider (EIC), at Brookhaven National Laboratory and is the founding Director of the Center for Frontiers in Nuclear Science (CFNS) at Stony Brook University, a joint initiative between Stony Brook University & Brookhaven National Laboratory. Abhay is a Senior Fellow and advisor to the director of the RIKEN BNL Research Center (RBRC) at BNL.

Abhay started his research career searching for some of the ultra rare decays of the Kaon for his doctoral thesis. Since then his activities have focused on understanding QCD by probing the momentum and spin structure of the proton in terms of its fundamental components (quarks and gluons) and their dynamics and to a lesser degree collisions of light and heavy nuclei. Abhay has performed experiments at CERN (Spin Muon Collaboration), at DESY (ZEUS), and BNL (RHIC/PHENIX/proton-polarimetry). He and his group are Hall-A collaborators in the JLab12 GeV physics program and work on PREX/CREX, MOLLER and SoLID experiments and the electron beam polarimetry, with physics interest in nuclear structure, possible physics beyond the Standard Model and transverse spin structure: transverse momentum and position distribution of partons in polarized nucleons. Abhay has been deeply involved and promoted the Electron Ion Collider (EIC) and its science since he was a postdoctoral fellow. He has unofficially served as the contact person for the project since 1999, as was elected the founding Chair of Steering Committee (or the Spokesperson) in 2016-2017. He has 400+ peer reviewed publications to his credit, organized national and international meetings, edited multiple volumes of conference proceedings, and has been a reviewer for national and international funding agencies. Abhay serves on the international advisory committees of various scientific meetings and organizations. Abhay is a life member of the APS\* and AAAS\*\*. He is an APS Fellow and an Education Fellow for Life Sciences of the National Academy Sciences. Abhay has served NSAC§. He contributed to the last three, and served on the last two, Long Range Planning committees of the NSAC. He recently chaired and hosted the annual meeting of the APS's Undergraduate Women in Science for the (US) North East Corridor, and a research symposium on promotion of minority undergraduate student's research participation at BNL. At Stony Brook, Abhay has served as the director of Undergraduate Studies for Physics and Astronomy (associate chair), and on various curriculum development, certification committees, and the Provost's advisory committees on STEM\$\$ education at Stony Brook. Abhay received his Ph.D. from Yale University in experimental particle physics in 1995. After spending three years at CERN and a year at DESY as a Yale Fellow, he became RIKEN Fellow at the RIKEN BNL Research Center. He moved to Stony Brook University in 2004 where he has been since.

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\*American Physical Society

\*\*American Association for Advancement of Science

§ Nuclear Science Advisory Committee

\$\$ Science, Technology, Engineering and Math