

Bio: Abhay Deshpande

Abhay Deshpande is a Professor in the department of Physics and Astronomy at Stony Brook University (SUNY). He also serves as Senior Fellow and Deputy Group Leader for Experiments, an honorary position, at the RIKEN BNL Research Center. Abhay started his research career with measurements of 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, with collisions of light and heavy nuclei at RHIC. Abhay has performed experiments at CERN (Spin Muon Collaboration), at DESY (ZEUS), and BNL (RHIC/PHENIX/proton-polarimetry). While continuing his activities at RHIC he has recently joined the Hall-A collaboration at Jefferson Lab to perform complementary studies of transverse spin structure of the proton and pursue precision electroweak physics searching for possible physics beyond the Standard Model with the 12 GeV upgraded CEBAF. Abhay has been deeply involved and promoted the Electron Ion Collider and its science since he was a postdoctoral fellow. He has 300+ 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 is a life member of the APS* and AAAS**. He is an *APS Fellow*, recipient of a *special prize from the President of RIKEN* for Spin Physics at RHIC, and named the *National Academy's Education Fellow for Life Sciences* for developing interdisciplinary course material for teaching introductory physics and biology through 2013 Summer Institute activity. Abhay has served on the NSAC[§]. He contributed to the last three, and served on the last two, Long Range Planning exercises of the NSAC. He recently chaired and hosted the annual APS meeting of the Undergraduate Women in Science for the (US) North Eastern Corridor. At the University, Abhay has served as the director of Undergraduate Studies for Physics and Astronomy, 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, he became RIKEN Fellow at the RIKEN BNL Research Center. He moved to Stony Brook University in 2004 where he has been since.

*American Physical Society

**American Association for Advancement of Science

§ Nuclear Science Advisory Committee

\$\$ Science, Technology, Engineering and Math