



Contribution ID: 307

Type: **Invited talk**

NSLS-II - The First Ten Years

Tuesday 27 August 2024 17:10 (20 minutes)

National Synchrotron Light Source II (NSLS-II) is a 3 GeV synchrotron facility located on Long Island, New York, that saw its first light ten years ago in October 2014. Since then, NSLS-II has quickly ramped up its accelerator and beamline capabilities, with 400 mA of stored beam and 29 beamlines in user operations today, plus 4 beamlines under construction and additional beamlines in development. In fiscal year 2023, over 1800 researchers used NSLS-II to conduct their research in a wide-range of scientific disciplines.

As a scientific user facility, NSLS-II provides stable and intense photon beams from infrared to hard X-rays, experimental capabilities, and data infrastructure to enable multiscale, multimodal, high-resolution studies on diverse systems of materials. NSLS-II vision is to be a hub for the use of synchrotron light to solve the world's most challenging problems and improve our lives for the future. This presentation will showcase a few select highlights and approaches to illustrate the progresses made in the past ten years, as well as our future development plan to further enhance our ability to serve the scientific community well into the next decade.

National Synchrotron Light Source II is a U.S. Department of Energy (DOE) Office of Science User Facility operated for the DOE Office of Science by Brookhaven National Laboratory under Contract No. DE-SC0012704.

Qun Shen

National Synchrotron Light Source II (NSLS-II)

Brookhaven National Laboratory, Upton, NY 11973, USA

I plan to submit also conference proceedings

Yes

Primary author: Dr SHEN, Qun (Brookhaven National Laboratory, NSLS-II)

Presenter: Dr SHEN, Qun (Brookhaven National Laboratory, NSLS-II)

Session Classification: Mikrosymposium 11/2: SR facilities: Updates and New Facilities

Track Classification: 11. Synchrotron radiation facilities: Facility updates and new facilities