

ACCELERATOR SEMINAR

“NSLS-II: Transfer Line Design”

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The NSLS-II is a state of the art 3 GeV third generation synchrotron light source at Brookhaven National Lab. Its construction began in 2009, and the facility is expected to start operating in 2015. The injection system consists of a 200 MeV linac with thermionic cathode, 3 GeV booster synchrotron and associated transfer lines. Both linac and booster are turn-key devices.

The transport lines from the linac to booster (LtB) and the booster to storage ring (BSR) must satisfy a number of requirements. In addition to transport the beam while maintaining the beam emittance, these lines must allow for commissioning, provide appropriate diagnostics; and in the case of the BSR line, provide a stable beam for top-off injection. The talk is mostly focused on the transfer lines design.

Wednesday, August 4, 2010

3:30 p.m. – 4:30 p.m.

CEBAF Center, Room F113

Coffee before the Seminar beginning at 3:00 p.m.