ACCELERATOR SEMINAR

"The Design and Commissioning of the NSLS-II Storage Ring"

Weiming Guo,
NSLS-II, Brookhaven National Laboratory

NSLS-II is a 3-Gev 3rd generation light source under commissioning at Brookhaven National Laboratory. The 792m long storage ring consists of 30 double-bend-achromat cells and is capable of providing about 60 x-ray beam lines. With the installation of three 7m damping wigglers the emittance is optimized to 1nm. Benefiting from the experience of the existing light sources, NSLS-II is designed and constructed with high quality and precision. In this talk I will be focusing on the NSLS-II physics design approaches, particularly the optimization on the linear and nonlinear lattice, the magnet specification, measurement and modeling, stability requirements, and the excellent agreement found at commissioning.

Thursday, May 29, 2014
11:00 a.m.
CEBAF Center, Room L102

Coffee before seminar at 10:45 a.m.

Jefferson Lab

For further info, please contact Anne-Marie Valente at x6073 or Alex Bogacz at x5784