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Early Commissioning Results of the NSLS-II High Power RF Systems

Tuesday, May 13, 2014 12:00 PM (30 minutes)

The NSLS-II has completed early commissioning with the booster synchrotron utilizing a 80 kW IOT transmitter powering a 7-cell “PETRA”like cavity and the storage ring a 300 kW klystron transmitter powering an identical cavity. The 7-cell cavity in the storage ring will be replaced with a “CESR-B”like superconducting cavity during the May 2014 shutdown. Both the klystron and IOT transmitters use switching HV power supplies with redundant switches and programmable switching algorithms that can suppress AC power line harmonics. Early results are presented.

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