

## **Performance and Upgrades of the Advanced Photon Source (APS) 352MHz / 1-MW Klystron Power Systems\***

*Thursday 10 May 2012 14:00 (30 minutes)*

Essential for operation of the APS booster and storage ring are the high power radio frequency (rf) systems. The high-power rf system consists of five individual 100-kV, 20-A DC power systems each feeding its respective 1-MW continuous wave klystron. Each power system contains a medium voltage electrical substation, a 1400-V SCR gated voltage regulator, a 100-kV rectifier, an ignitron crowbar stack, and a hard tube modulator. Performance and upgrades to these klystron power systems will be discussed.

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