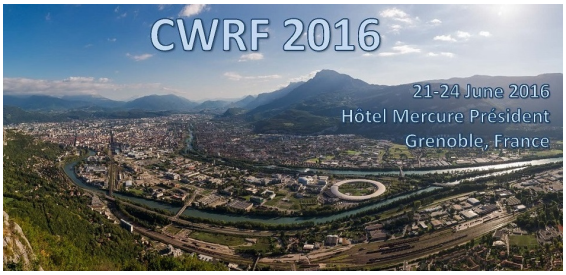

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Various RF systems within the Collider-Accelerator complex at Brookhaven National Laboratory

Friday 24 June 2016 08:30 (30 minutes)

Various High power RF cavities are utilized within the C-AD complex, including ferrite loaded, pillbox, folded transmission line, and tapped transmission line. High power amplifiers range from solid state solutions to vacuum electron devices, at power ranges of 1 kW to 5 MW pulsed. The RF frequency spectrum of systems varies drastically, from 300 kHz to 201 MHz for operational systems, and up to 2.1GHz for developmental systems.

Summary

There are many types of RF systems used at Brookhaven National Laboratory (BNL). This will discuss a general overview of operational systems within the Collider-Accelerator Department (C-AD), from pre-injector to final storage rings. Concentration will focus on the Alternating Gradient Synchrotron (AGS) Booster, AGS, and the Relativistic Heavy Ion Collider (RHIC). Included will be a discussion on the current operational status of the 200MeV LINAC and upgrades needed to extend the lifetime of the accelerator.

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