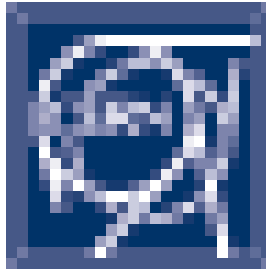


LLRF05



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LCLS LLRF System

Tuesday, 11 October 2005 09:50 (3 minutes)

The Linac Coherent Light Source (LCLS) project [1] at SLAC uses a dense 15 GeV electron beam passing through a long undulator to generate extremely bright x-rays at 1.5 angstroms. The project requires electron bunches with a nominal peak current of 3.5kA and bunch lengths of 0.020mm (70fs). The RF stability required by the bunch compressors is tighter than what is currently required to run experiments. This paper describes the upgrades to the RF monitoring and control system required to meet the 100fs phase stability requirements.

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