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The CSNS RCS LLRF Control System

The rapid cycling synchrotron (RCS) RF system of China Spallation Neutron Source (CSNS) is composed of a ferrite loaded RF cavity, a high power tetrode amplifier, a bias supply of 3000A and a digital low level RF (LLRF) control system based on FPGA. This paper will present the design and structure of the LLRF system, and show preliminary results of performance tests.

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