

# Superconductor LLRF control system for CSNS-II LINAC

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China Spallation Neutron Source(CSNS) beam power will upgrade to 500 kW(CSNS-II), energy gain of H-linac will up to 300 MeV from 80 MeV using about 48 superconductor cavities. LLRF is an important device for controlling the amplitude and phase of the SRF cavity field to be less than  $\pm 0.3\%$  and  $\pm 0.3^\circ$ , as well as maintaining resonance stability. By the way ,quench detection and similar interlocking of SRF cavity and rf power source are also crucial.The development progress and results of LLRF are introduced.

## Keyword

SRF ,LLRF,CSNS

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