



Contribution ID: 26

Type: **Talk**

Spallation Neutron Source RF - Past, Present, and Future

Monday 9 September 2024 14:00 (25 minutes)

Operation of the Spallation Neutron Source (SNS) RF Systems provide a broad study of high-power equipment and sources including solid state amplifiers, tetrodes, klystrons, waveguide circulators and fundamental power couplers. While not unique to the SNS, over 20 years of operating at high average and peak powers have yielded insights to overcoming technical problems of interest to the wider accelerator RF community. The recent addition of new superconducting RF stations provides a good point in time to review the SNS operational experience, the lessons learned from that experience, and address the future of SNS RF.

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Session Classification: Session 2a

Track Classification: Project reports, new projects