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R&D towards an 800 MHz cryomodule

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As FCC-ee reconfigures to reach higher and higher energies, many 800 MHz SRF cavity cryomodules are planned for installation in the tunnel. In this presentation, we discuss some R&D activities at Fermilab related to these cryomodules. We present relevant R&D towards achieving high Q_0 in cavities in this frequency range and at operating gradients relevant for the FCC-ee specification, including treatment and testing of 800 MHz cavities built by Jefferson Lab. We also discuss cryomodule design, particularly in relation to PIP-II cryomodules with similar frequency. Finally, we discuss recent relevant SRF cryomodule production experience at Fermilab.

Primary author: POSEN, Sam

Co-authors: BOFFO, Cristian; BELOMESTNYKH, Sergey; KAZAKOV, Sergey (FNAL); ROGER, Vincent (Fermilab)

Presenter: POSEN, Sam

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