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Surface Resistance, Frequency Dependence, and Field Limitation in Nb₃Sn Cavities

Friday, 13 November 2020 08:20 (25 minutes)

In this talk, we present the current performance of Nb₃Sn SRF cavities at Cornell University and recent research/progress towards improving their performance. We particularly focus on high frequency Nb₃Sn cavities (> 1.3 GHz) and on understanding and improving the maximum accelerating gradient of Nb₃Sn cavities (currently limited to 17 MV/m at Cornell University).

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