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Ultramet Thin-film CVD Nb₃Sn Coating Process Development for Copper SRF Cavities

Thursday, 12 November 2020 11:00 (20 minutes)

Ultramet, an industry leader in the manufacture of refractory metal and ceramic components by chemical vapor deposition (CVD) and chemical vapor infiltration (CVI), continues to investigate and adapt CVD-based methods for the production of advanced high-gradient capable superconducting radiofrequency (SRF) cavities and components to meet the needs of the accelerator community. Ultramet researchers will provide a summary of all the Department of Energy (DOE)-funded, SRF-related Ultramet research efforts to date. The presentation will include an overview of ongoing work with Cornell's SRF Group and researchers at Florida State University's MagLab to develop thin-film CVD Nb₃Sn-on-copper SRF accelerator cavities.

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