

10th International Workshop on Thin Films and New Ideas for Pushing the Limits of RF Superconductivity



Monday, September 19, 2022 - Friday, September 23, 2022

Jefferson Lab

Scientific Program

Perspective of SRF thin film in international projects

Theoretical approach for SRF Thin Films & Structures

Q-drop mechanism in thin films, SRF performance enhancement with mono- and multilayered superconductors

Nb thin film technology

Conventional PVD, energetic condensation from highly ionized plasmas (HiPIMS, Arc Deposition, ECR plasma deposition ...), CVD...

Beyond Nb: Alternate materials and multilayer structures

B1 compounds (NbN, NbTiN...), A15 materials (Nb₃Sn, V₃Si, ...), MgB₂ and other high-T_c superconductors (oxypnictides, FeSe monolayer...), multilayer and nano-engineered structures

Advanced substrates

Surface cleaning, atmospheric plasmas; cavity substrate fabrication (electroplating, seamless cavities, 3D-manufacturing...)

SRF Thin Films Characterization: Materials, Surfaces & Structures

SRF Thin Films Characterization: Cryogenic & RF measurements

Applications beyond SRF: Quantum & Devices

