

11th International Workshop on Thin Films and New Ideas for Pushing the Limits of RF Superconductivity - TFSRF2024



Monday 16 September 2024 - Friday 20 September 2024

Bat. 100, Université Paris-Saclay, France

Scientific Programme

Welcome session

SRF limits

Deposition modeling

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 (oxyapnictides, FeSe monolayer...), multilayer and nano-engineered structures

Advanced Substrates

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

Characterization

Functional layers and synergies

Perspective of SRF thin films

(including detector cavities and quantum application)

Thin film roadmap 2025-2030

