

Session Program

21-25 Sept 2026



12th International Workshop on Thin Films and New Ideas for Pushing the Limits of RF Superconductivity

***Beyond Nb & Nb₃Sn: Alternate materials,
multilayer SIS structures***

Crowne Plaza Chester, Chester, United Kingdom, Prince of Wales Suite

Wednesday 23 September

09:00

Beyond Nb & Nb₃Sn: Alternate materials, multilayer SIS structures

Session | **Location:** Crowne Plaza Chester, Chester, United Kingdom, Prince of Wales Suite | **Convener:** Marc Wenskat

09:00–09:25

Advancements in MgB₂-Coated Cu Superconducting RF Cavities

Speaker

Ke Chen

09:25–09:50

In-depth material studies of SIS multilayers for application using the new cavity-coating system

Speaker

Lea Preece

09:50–10:15

Design and Preliminary Testing of a DC Magnetron Sputtering Cathode for Nb-Sn Precursor Deposition inside a 3 GHz SRF Cavity: Toward an Nb₃Sn-I- Nb Multilayer Structure

Speaker

ryo katayama

10:15–10:35

Zr-Nb Alloy Coatings for SRF Cavities: Surface Characterization, Deposition Method Development, and Initial RF Performance

Speaker

Alexis Grassl

10:35

11:05

Beyond Nb & Nb₃Sn: Alternate materials, multilayer SIS structures

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11:05–11:25

Nb₃Al: A Second Viable Material for High-Gradient 4.2 K SRF Operation

Speaker

Alexis Grassl

11:25–11:45

Zr Inclusion as a New Route to Improve SRF Cavity Materials

Speaker

Malvika Tripathi

11:45–12:05

Superconducting properties of Nb-Zr thin films for particle accelerators and quantum applications

Speaker

Dr Malvika Tripathi

12:05–12:25

Beyond Nb & Nb₃Sn - Discussion

12:25