

Session Program

21-25 Sept 2026



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

Pushing SRF Thin Films Limits: Theoretical Advances, Deposition Modeling & DFT

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

Monday 21 September

11:00

Pushing SRF Thin Films Limits: Theoretical Advances, Deposition Modeling & DFT

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

11:00–11:20

Modelling flux vortex dynamics in type-II superconductors under a thermal gradient-driven phase transition with closed cooling topology

Speaker

Guilherme Theophilo Telles

11:20–11:40

Chemical Adsorption of Water on Niobium and Its Surface Oxides in the Medium-Temperature Baking Regime: An ab initio Study

Speaker

Shantong Chen

11:40–12:00

Preliminary Particle-in-Cell Simulation Results of Plasma Discharge from a DC Magnetron Sputtering Device

Speaker

Dr Benzi John

12:00–12:20

Multilayer model for coatings with arbitrary number of planar layers for SRF applications

Speaker

Mr Aaron Gobeyn

12:20–12:30

Pushing SRF Thin Films Limits: Theoretical Advances, Deposition Modeling & DFT - Discussion

12:30