

Session Program

21-25 Sept 2026



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

Nb₃Sn Technology: Recent Technical Advances & Scaling Horizons

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

Tuesday 22 September

09:00

Nb₃Sn Technology: Recent Technical Advances & Scaling Horizons

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

09:00–09:30

From Nb to Nb₃Sn: Complexity in SRF Coating Development

Speaker

Caroline Hain

09:30–09:55

Nb₃Sn thin film development on 1.3 GHz cavities

Speaker

Dr Matteo Lazzari

09:55–10:20

Calibration and deposition of 1.3 GHz Nb cavity coated with Nb₃Sn thin film by PVD planar magnetron sputtering.

Speaker

Reza Valizadeh

10:20

10:50

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10:50–11:15

Suppressed thermoelectric currents in Nb₃Sn-on-Cu structures

Speaker

Felix Kramer

11:15–11:40

Recent Progress on Bronze-Route Nb₃Sn Thin Films at HZB

Speaker

Oliver Kugeler

11:40–12:05

Study on the synergistic optimization of material and thickness of diffusion barrier layer based on copper-based Nb₃Sn film by bronze method

Speaker

BoHao Zhang

12:05

13:40

Nb₃Sn Technology: Recent Technical Advances & Scaling Horizons

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

13:40–14:00

Understanding and Improving the Tin Vapor Diffusion Process for Nb₃Sn-Coated SRF Cavities at JLab

Speaker

Uttar Pudasaini

14:00–14:20

Role of surface oxide and anodization in Nb₃Sn nucleation

	Speaker Liana Shpani
	14:20–14:40 Development of Nb₃Sn coatings on Novel Cavity Geometries Using Vapor-Diffusion Technique Speaker Nikki Tagdulang
	14:40–15:00 Towards Industrial Nb₃Sn-based Turn-Key SRF Systems Speaker Vitalii Shcherbinin
15:00	
15:30	Nb₃Sn Technology: Recent Technical Advances & Scaling Horizons Session Location: Crowne Plaza Chester, Chester, United Kingdom, Prince of Wales Suite Convener: Cristian Pira
	15:30–16:00 Gray Enid I: Record Beam Acceleration with a Nb₃Sn SRF Cryomodule at JLab Speaker Uttar Pudasaini
	16:00–17:00 Nb₃Sn Technology: Recent Technical Advances & Scaling Horizons- Discussion
17:00	