

Virtual International Workshop on Nb₃Sn SRF Science, Technology, and Applications (Nb₃SnSRF'20)

Wednesday 11 November 2020

Growth Studies: Session 1 (08:00-09:50)

-Conveners: **Stephanie Fernandez**

time	[id] title	presenter
08:00	[9] CONSTRUCTION OF Nb ₃ Sn COATING SYSTEM AND TRIAL OF SAMPLE COATING AT KEK	Mr TAKAHASHI, Kotaro
08:20	[21] Growth Studies at Northwestern University of Vapor Diffusion Samples from Fermilab	LEE, Jae Yel
08:45	[15] Growth Studies and Optimization of Nb ₃ Sn Coatings	PORTER, Ryan
09:05	[19] Nucleation of Nb ₃ Sn films in a tin vapor diffusion process	PUDASAINI, Uttar
09:25	[27] Development and Understanding of Nb ₃ Sn films for radiofrequency applications through a sample-host 9-cell cavity	SPINA, Tiziana

Growth Studies: Session 2 (10:05-12:00)

-Conveners: **Zeming Sun**

time	[id] title	presenter
10:05	[18] Nb ₃ Sn growth in vapor diffusion: process design for large surface area coatings	PUDASAINI, Uttar
10:25	[10] Nb ₃ Sn Coating of Complex Cavity Structures for SRF Accelerator Applications.	TISKUMARA, Jayendrika
10:45	[23] Persistence of the Nb(100) Surface Oxide Reconstruction at Elevated Temperatures	THOMPSON, Caleb
11:05	[32] Deconvoluting Initial Nb-Sn-O Interactions: Spatially Resolved Electronic Characterization of Sn Reconstructions on (3×1)-O Nb(100)	WILLSON, Sarah
11:25	[29] Spatially Resolved Adsorption Structures and Diffusion Dynamics of Sn on (3×1)-O Nb(100)	FARBER, Rachael
11:45	[46] Guided discussion: Nb ₃ Sn vapor diffusion growth: How does the Nb substrate impact growth?	FARBER, Rachael

Thursday 12 November 2020

Growth Studies: Session 3 (08:00-09:40)

-Conveners: Tiziana Spina

time	[id] title	presenter
08:00	[17] PVD deposition of Nb ₃ Sn from an alloy target on copper.	VALIZADEH, reza
08:20	[38] Physical Vapor Deposition of Bronze-Route Nb ₃ Sn for SRF Cavities	Dr WITHANAGE, Wenura
08:40	[13] Nb ₃ Sn Formation Using Electroplating Method for SRF Cavity	Dr ITO, Hayato
09:00	[30] Electrochemical Bronze-Route Nb ₃ Sn for SRF Cavities	KIM, Choong-Un
09:20	[2] Ultra-Low Cost Approach to Superconducting Nb ₃ Sn RF Cavities Using Melt Casted Bronze Structures	Dr REY, Christopher

Growth Studies: Session 4 (09:55-12:00)

-Conveners: Ryan Porter

time	[id] title	presenter
09:55	[3] Temperature-Dependent Characteristics of Sputtered Nb ₃ Sn Thin Films (for Accelerator Applications)	HOWARD, Katrina
10:15	[12] Nb ₃ Sn growth by sequential sputtering: film morphology and its RF properties	SAYEED, Md Nizam
10:35	[36] Magnetron sputtered Nb ₃ Sn and V ₃ Si thin films on copper substrates for SRF application	Dr FERNANDEZ, Stephanie
11:00	[31] Ultramet Thin-film CVD Nb ₃ Sn Coating Process Development for Copper SRF Cavities	Mr MCNEAL, Shawn
11:20	[5] Electrochemical deposition for generating Nb ₃ Sn films with low surface roughness and stoichiometry	SUN, Zeming
11:45	[47] Guided discussion: Alternative Nb ₃ Sn growth methods - What are the challenges and next steps?	Dr VALENTE-FELICIANO, Anne-Marie