

Session Program

11-14 Oct 2022



TTC2022 Aomori, TESLA Technology Collaboration

WG3

Link Station Hall Aomori , Medium meeting room, Small meeting room 4
1-4-1 Tsutsumi-machi, Aomori-shi, Aomori, Japan

Wednesday 12 October

14:00

WG3: Applications and cooling schemes for Nb₃Sn- cavities

Session | **Location:** Link Station Hall Aomori, Medium meeting room | **Conveners:**
Uttar Pudasaini, Kensei Umemori, Oliver Kugeler

14:00–14:18

Alternative Nb₃Sn Coating via Direct Electrochemical Deposition

Speaker

Liana Shpani

14:18–14:36

Commissioning of cylindrical DC magnetron sputtering system and preliminary results from Nb₃Sn coating of a 2.6 GHz Nb SRF cavity

Speaker

Anne-Marie Valente-Feliciano

14:36–14:54

Low temperature co-sputtering of Nb₃Sn thin films on copper

Speaker

Marton Major

14:54–15:12

Nb₃Sn on Cu Coating By Magnetron Sputtering From Target Synthesized via Liquid Tin Diffusion

Speaker

Cristian Pira

15:12–15:30

Discussion

15:30

16:00

WG3: Applications and cooling schemes for Nb₃Sn- cavities

Session | **Location:** Link Station Hall Aomori, Medium meeting room | **Conveners:**
Uttar Pudasaini, Oliver Kugeler, Kensei Umemori

16:00–16:15

Nb₃Sn coating R&D in Japan

Speaker

Hayato Ito

16:15–16:30

Nb₃Sn cavity coatings for accelerator applications at JLab

Speaker

Uttar Pudasaini

16:30–16:45

Centrifugal Barrel Polishing of Nb₃Sn Thin Film Cavities

Speaker

Eric Viklund

16:45–17:00

Improved electrolytic coating of Cu on Nb

Speaker

Oliver Kugeler

17:00–17:15

Development of High-Capacity 4K GM-JT CryoCoolers

Speaker

Hisao Kawakami

17:15–17:30

Discussion session

Speakers

Kensei Umemori, Uttar Pudasaini, Oliver Kugeler

17:30

Thursday 13 October

11:00

WG3: Applications and cooling schemes for Nb₃Sn- cavities

Session | **Location:** Link Station Hall Aomori, Medium meeting room | **Conveners:**
Uttar Pudasaini, Kensei Umemori, Oliver Kugeler

11:00–11:18 Conduction cooling R&D at KEK

Speaker
Tomohiro Yamada

11:18–11:36

Progress on the design of a conduction cooled SRF cryomodule at Fermilab

Speaker
Ram Dhuley

11:36–11:54

Development of cryocooler systems for SRF and NCRF cavity and component tests at LANL

Speaker
Tsuyoshi Tajima

11:54–12:12

952MHz Nb₃Sn Cryostat Design and Thermal Management

Speaker
Gary Cheng

12:12–12:30

Discussion

12:30

14:00

WG3: Applications and cooling schemes for Nb₃Sn- cavities

Session | **Location:** Link Station Hall Aomori, Medium meeting room | **Conveners:**
Kensei Umemori, Uttar Pudasaini, Oliver Kugeler

14:00–14:18 Application of Nb₃Sn cavity for fs pulse electron microscope

Speaker
Yang Jinfeng

14:18–14:36

Conduction-cooled SRF accelerator development for industrial applications at Fermilab

Speaker
Jayakar Charles Tobin Thangaraj

14:36–14:54

Design and beam dynamics study on compact Nb₃Sn accelerator

Speaker
Olga Tanaka

14:54–15:12

Progress in Nb₃Sn developments for CEBAF-style quarter cryomodule

Speaker
Uttar Pudasaini

15:12–15:30

Discussion

15:30

Speakers

Kensei Umemori, Uttar Pudasaini, Oliver Kugeler