

TTC 2021, TESLA Technology Collaboration

Report of Contributions

Contribution ID: **99**

Type: **not specified**

Welcome

Tuesday 19 January 2021 14:30 (15 minutes)

Presenter: WEISE, Hans (MSL (Supraleitende Beschleuniger Technologie))

Session Classification: Opening Plenary Session

Contribution ID: **100**

Type: **not specified**

Introduction and update from last collaboration meeting

Tuesday 19 January 2021 14:45 (15 minutes)

Summary

Presenter: WEISE, Hans (MSL (Supraleitende Beschleuniger Technologie))

Session Classification: Opening Plenary Session

Contribution ID: **101**

Type: **not specified**

Experience with SRF Gun Module operation and lessons learned for SRF CW ERL modules (15 + 5)

Tuesday 19 January 2021 15:00 (20 minutes)

Presenter: NEUMANN, Axel (HZB)

Session Classification: WG1 Session 1

Contribution ID: **102**

Type: **not specified**

SRF gun cryomodule testing at ANL (15 + 5)

Tuesday 19 January 2021 15:20 (20 minutes)

Summary

Presenter: Mr PETERSEN, Troy (Argonne National Lab)

Session Classification: WG1 Session 1

Contribution ID: **103**

Type: **not specified**

RF Performance and experience of the 1st series spoke cryomodule for ESS (15+5)

Tuesday 19 January 2021 15:40 (20 minutes)

Presenter: LI, Han (Uppsala)

Session Classification: WG1 Session 1

Contribution ID: **104**

Type: **not specified**

PIP-II Half-Wave Resonator Cryomodule Test Results (Pneumatic tuner, top-loading CM) (12+3)

Tuesday 19 January 2021 16:20 (15 minutes)

Presenter: OZELIS, Joe (Fermilab)

Session Classification: WG1 Session 2

Contribution ID: **105**

Type: **not specified**

Test results from PIP-II Single-Spoke Resonator 1 prototype cryomodule (Stepper+piezo tuner, end-loading CM) (12+3)

Tuesday 19 January 2021 16:35 (15 minutes)

Presenter: SUKHANOV, Alexander (Fermilab)

Session Classification: WG1 Session 2

Contribution ID: **106**

Type: **not specified**

In situ dynamic heat load measurements of the SPIRAL 2 LINAC superconducting cavities (12+3)

Tuesday 19 January 2021 16:50 (15 minutes)

Presenter: ADNAN, Ghribi (GANIL)

Session Classification: WG1 Session 2

Contribution ID: **107**

Type: **not specified**

XFEL heat load measurements (12+3)

Tuesday 19 January 2021 17:05 (15 minutes)

Presenter: RAMALINGAM, Rajinikumar (DESY)

Session Classification: WG1 Session 2

Contribution ID: **108**

Type: **not specified**

LCLS-II cryomodule heat load measurements at Fermilab + JLAB (10+10+5)

Tuesday 19 January 2021 17:20 (25 minutes)

Presenters: HARMS, Elvin (Fermilab); DRURY, Michael (Jefferson Lab)

Session Classification: WG1 Session 2

Contribution ID: **109**

Type: **not specified**

Offline and online heat load measurements of FRIB cryomodules and performance after thermal cycling

Tuesday 19 January 2021 17:45 (15 minutes)

Summary

Presenter: KIM, Sang-Hoon (FRIB)

Session Classification: WG1 Session 2

Contribution ID: **110**

Type: **not specified**

Operation/installation of QWR CMs at RIKEN (15+5)

Wednesday 20 January 2021 14:30 (20 minutes)

Presenter: Dr SAKAMOTO, Naruhiko (RIKEN Nishina Center)

Session Classification: WG1 Session 3

Contribution ID: 111

Type: **not specified**

Power coupler issues in CM operation from RIKEN (12+3)

Wednesday 20 January 2021 14:50 (15 minutes)

Presenter: OZEKI, Kazutaka (RIKEN)

Session Classification: WG1 Session 3

Contribution ID: 112

Type: **not specified**

Lessons learned from FRIB linac SRF commissioning: field calibration, mitigation of field emission, resonance control (12+3)

Wednesday 20 January 2021 15:05 (15 minutes)

Presenter: POPIELARSKI, John (FRIB)

Session Classification: WG1 Session 3

Contribution ID: 113

Type: **not specified**

Cryomodule development at IMP-lessons learned from operation of C-ADS and recent design for HIAF project (15+5))

Wednesday 20 January 2021 15:20 (20 minutes)

Presenter: BAI, Feng (IMP)

Session Classification: WG1 Session 3

Contribution ID: 114

Type: **not specified**

Dark current in high-gradient SRF linac and the irradiation heating in superconducting magnets for beam focusing (15+5)

Wednesday 20 January 2021 15:40 (20 minutes)

Presenters: YAMAMOTO, Akira (KEK/CERN); SOLYAK, Nikolay (Fermilab)

Session Classification: WG1 Session 3

Contribution ID: 115

Type: **not specified**

Experience with field emitters at EuXFEL (15+5)

Wednesday 20 January 2021 16:20 (20 minutes)

Summary

Presenter: WALKER, Nick (DESY)

Session Classification: WG1 Session 4

Contribution ID: **116**

Type: **not specified**

Effects of thermal cycling and recent changes to the vacuum interlocks for C100 cryomodules (15+5)

Wednesday 20 January 2021 16:40 (20 minutes)

Presenter: POWERS, Tom (JLAB)

Session Classification: WG1 Session 4

Contribution ID: **117**

Type: **not specified**

Experience in CBETA RF commissioning (15+5)

Wednesday 20 January 2021 17:00 (20 minutes)

Presenter: BANERJEE , Nilanjan (Cornell)

Session Classification: WG1 Session 4

Contribution ID: **118**

Type: **not specified**

Status of ARIEL SRF e-Linac Cryomodules (15+5) tbc

Wednesday 20 January 2021 17:20 (20 minutes)

Summary

Presenters: Mr YANYUN, Ma (TRIUMF); LAXDAL, Robert (TRIUMF)

Session Classification: WG1 Session 4

Contribution ID: **119**

Type: **not specified**

SNS operational experience (15+5)

Wednesday 20 January 2021 17:40 (20 minutes)

Summary

Presenter: Mr MAMMOSSER, John (SNS)

Session Classification: WG1 Session 4

Contribution ID: 120

Type: **not specified**

Grainboundary-Diffusion studies on Cavity Cut-Outs and Samples (12+3)

Tuesday 19 January 2021 15:00 (15 minutes)

Presenter: DANGWAL PANDEY, Arti (DESY Hamburg)

Session Classification: WG2 Session 1

Contribution ID: 121

Type: **not specified**

Progress on modeling high-temperature nitrogen diffusion and nitride growth guided by SIMS, SEM, and AFM measurements (12+3)

Tuesday 19 January 2021 15:15 (15 minutes)

Presenter: LECHNER, Eric (JLAB)

Session Classification: WG2 Session 1

Contribution ID: 122

Type: **not specified**

First insight on Internal Friction measures on Nb samples to study the precipitates esponsible of HFQS (12+3)

Tuesday 19 January 2021 15:30 (15 minutes)

Presenter: SPINA, Titziana (FNAL)

Session Classification: WG2 Session 1

Contribution ID: **123**

Type: **not specified**

First results from beta-NMR for SRF samples (12+3)

Tuesday 19 January 2021 15:45 (15 minutes)

Presenter: THOENG, Edward (TRIUMF)

Session Classification: WG2 Session 1

Contribution ID: 124

Type: **not specified**

High-Q performance of SRF cavities by mid-T furnace baking at KEK (15+5)

Tuesday 19 January 2021 16:20 (20 minutes)

Presenter: ITO, Hayato (KEK)

Session Classification: WG2 Session 2

Contribution ID: 125

Type: **not specified**

Experimental study of simplified mid-T furnace baking at IHEP (15+5)

Tuesday 19 January 2021 16:40 (20 minutes)

Presenter: HE, Feisi (IHEP Beijing)

Session Classification: WG2 Session 2

Contribution ID: **126**

Type: **not specified**

High Q progress at PKU (15+5)

Tuesday 19 January 2021 17:00 (20 minutes)

Presenter: HAO, Jiankui (PKU)

Session Classification: WG2 Session 2

Contribution ID: 127

Type: **not specified**

New results on N-doping applied to 5-cells low-beta 644 MHz cavities (15+5)

Tuesday 19 January 2021 17:20 (20 minutes)

Presenter: MCGEE, Kellen (FNAL / MSU)

Session Classification: WG2 Session 2

Contribution ID: **128**

Type: **not specified**

Origins and Implications of the F vs T Dip in Nb Cavities (15+5)

Tuesday 19 January 2021 17:40 (20 minutes)

Presenter: BAFIA, Daniel (FNAL)

Session Classification: WG2 Session 2

Contribution ID: **129**

Type: **not specified**

Studies of the cool-down dynamics around T_c using a magnetic flux lens (12+3)

Wednesday 20 January 2021 14:30 (15 minutes)

Presenter: IVANOV, Anton (CERN)

Session Classification: WG2 Session 3

Contribution ID: 130

Type: **not specified**

Study of possible frequency dependence of small AC fields on magnetic flux trapping in Niobium (12+3)

Wednesday 20 January 2021 14:45 (15 minutes)

Presenter: Dr KUGELER, Oliver (Helmholtz Zentrum Berlin)

Session Classification: WG2 Session 3

Contribution ID: **131**

Type: **not specified**

Dynamics of RF dissipation - High-speed temperature mapping (15+5)

Wednesday 20 January 2021 15:00 (20 minutes)

Presenter: PORTER, Ryan (Cornell)

Session Classification: WG2 Session 3

Contribution ID: 132

Type: **not specified**

A New Model for Q Slope in Nb Cavities and Its Application to Production Resonators for FRIB (15+5)

Wednesday 20 January 2021 15:20 (20 minutes)

Presenter: SAITO, Kenji (FRIB)

Session Classification: WG2 Session 3

Contribution ID: **133**

Type: **not specified**

New results from TEM test cavities (15+5)

Wednesday 20 January 2021 15:40 (20 minutes)

Presenter: KOLB, Philipp (TRIUMF)

Session Classification: WG2 Session 3

Contribution ID: 134

Type: **not specified**

Development of Coating System and First Cavity Performance Test for High-Efficiency Nb₃Sn Superconducting Cavity (15+5)

Wednesday 20 January 2021 16:20 (20 minutes)

Presenter: TAKAHASHI, Kotaro (KEK)

Session Classification: WG2 Session 4

Contribution ID: 135

Type: **not specified**

Recent progress of Nb₃Sn thin film SRF at IMP (15+5)

Wednesday 20 January 2021 16:40 (20 minutes)

Presenter: YANG, Ziqin (IMP)

Session Classification: WG2 Session 4

Contribution ID: 136

Type: **not specified**

Nb₃Sn and V₃Si as thin films on Cu toward SRF applications (15+5)

Wednesday 20 January 2021 17:00 (20 minutes)

Presenter: FERNANDEZ, Stéphanie (CERN)

Session Classification: WG2 Session 4

Contribution ID: 137

Type: **not specified**

Progresses on thin film deposition by ALD at IRFU/IJCLab (15+5)

Wednesday 20 January 2021 17:20 (20 minutes)

Presenter: BIRA, Sarra (IRFU/IJCLab)

Session Classification: WG2 Session 4

Contribution ID: **138**

Type: **not specified**

ALD-Based NbTiN studies for SIS R&D (15+5)

Wednesday 20 January 2021 17:40 (20 minutes)

Presenter: GONZALEZ, Isabel (DESY)

Session Classification: WG2 Session 4

Contribution ID: **139**

Type: **not specified**

New SRF infrastructures in China

Thursday 21 January 2021 14:30 (30 minutes)

(SHINE)

Presenter: WANG, Dong (SINAP)

Session Classification: Plenary Session

Contribution ID: **140**

Type: **not specified**

XFEL operational experience

Thursday 21 January 2021 15:00 (30 minutes)

Presenter: BRANLARD, Julien (DESY)

Session Classification: Plenary Session

Contribution ID: **141**

Type: **not specified**

SRF challenges for the EIC project

Thursday 21 January 2021 15:30 (30 minutes)

Summary

Primary author: WU, Qiong (BNL)

Presenter: WU, Qiong (BNL)

Session Classification: Plenary Session

Contribution ID: **142**

Type: **not specified**

WG1 Summary Report

Thursday 21 January 2021 16:20 (20 minutes)

Session Classification: Closing Plenary Session

Contribution ID: **143**

Type: **not specified**

WG2 Summary Report

Thursday 21 January 2021 16:40 (20 minutes)

Session Classification: Closing Plenary Session