

## **Session Program**

**4-7 Feb 2020**



## **TTC 2020**

### ***Working Group Session***

CERN, 500/1-001 - Main Auditorium  
Several rooms

## Tuesday 4 February

11:00

### Working Group Session: WG1\_Low/Mid T Bakes + N-treatments

**Session** | **Location:** CERN, 500/1-001 - Main Auditorium, Several rooms | **Conveners:**  
Dr Kensei Umemori, Marc Wenskat, Ari Palczewski

11:00-11:15 **New results of KEK infusion and mid-T bake**

**Speaker**  
Kensei Umemori

11:15-11:30 **Update on insitu mid-T bake**

**Speaker**  
Sam Posen

11:30-11:45 **Recent SRF cavity treatment R&D @ DESY**

**Speaker**  
Lea Steder

11:45-12:00 **High Q&G activity at IHEP**

**Speaker**  
Chao Dong

12:00-12:15 **Status of infusion studies at IJCLab/CEA-Saclay**

**Speaker**  
David Longuevergne

12:15-12:30 **Status of infusion studies at JLab**

**Speaker**  
Pashupati Dhakal

12:30

14:00

### Working Group Session: WG1\_Low/Mid T Bakes + N-treatments

**Session** | **Location:** CERN, 500/1-001 - Main Auditorium, Several rooms | **Conveners:**  
Marc Wenskat, Ari Palczewski, Kensei Umemori

14:00-14:18

**Progress in N doping at FNAL - new developments in higher gradients insights**

**Speaker**  
Daniel Bafia

14:18-14:36

**LCLS-II investigation of failed LCLS-II HE prototype cavities EP analysis**

**Speaker**  
Dr Mattia Checchin

14:36-14:54 **Test results from the TRIUMF multi-mode coaxial resonators**

**Speaker**  
Philipp Kolb

14:54-15:18

**New low-T sample studies highlighting the important role of oxygen diffusion****Speaker**

Alexander Romanenko

15:18-15:30

**Sample Survey - Presentation**

15:30

16:00

**Working Group Session: WG1\_Sample Studies****Session** | **Location:** CERN, 500/1-001 - Main Auditorium, Several rooms | **Conveners:**

Ari Palczewski, Kensei Umemori, Marc Wenskat

16:00-16:18

**Sample Survey - Discussion**

16:18-16:36

**New insights on the SRF Nb cavities performance from spectroscopic data. An XPS study****Speaker**

Arely Cano

16:36-16:54

**In-Situ EXAFS Investigation of N2 treatment of Nb****Speaker**

Dirk Lützenkirchen-Hecht

16:54-17:12

**The challenges of fully calibrated SIMS measurements using ion implant standards****Speaker**

Jonny Angle

17:12-17:30

**Sample Studies on Nitrogen- and Heat-Treatments of Niobium****Speaker**

Marc Wenskat

17:30

## Wednesday 5 February

11:00

### Working Group Session: WG1\_Flux Expulsion

**Session** | **Location:** CERN, 500/1-001 - Main Auditorium, Several rooms | **Conveners:**  
Kensei Umemori, Marc Wenskat, Ari Palczewski

#### 11:00–11:18 Flux expulsion measurement with a flux lens

##### Speaker

Anton Evgeniev Ivanov

#### 11:18–11:36

#### Metallurgical approach to addressing the issue of flux-trapping in Nb cavities and the variability found when using Nb sheet from different sources

##### Speaker

Shreyas Balachandran

#### 11:36–11:54

#### Comparison for the vortex penetration and dynamics in Nb, Nb/N and NbTi plates

##### Speakers

Chao Dong, Haihu Wen

#### 11:54–12:12

#### Flux expulsion on small samples for LCLS-II HE

##### Speaker

Paulina Kulyavtsev

#### 12:12–12:30

#### Material studies on High-T Doping

##### Speaker

Marton Major

12:30

14:00

### Working Group Session: WG3\_Coating techniques

**Session** | **Location:** CERN, 500/1-001 - Main Auditorium, Several rooms | **Conveners:**  
Tobias Junginger, Teng Tan, Guillaume Jonathan Rosaz

#### 14:00–14:18

#### Development of coating system for the Wide Open Waveguide (WOW) Crab Cavity (10'+8')

##### Speaker

Fabio Avino

#### 14:18–14:36

#### Progresses on ECR plasma deposited Nb thin films (10'+8')

##### Speaker

Anne-Marie Valente-Feliciano

#### 14:36–14:54

#### Legnaro Thick films (10'+8')

##### Speaker

Cristian Pira

#### 14:54–15:12

#### Test results of re-built LHC spare cavities (10'+8')

15:30

**Speaker**

Mr Franck Peauger

**15:12-15:30 ARIES WP15 progresses (10'+8')****Speaker**

Oliver Julius Kugeler

16:00

**Working Group Session: WG3\_Alternative Materials/Structures to Nb films****Session** | **Location:** CERN, 500/1-001 - Main Auditorium, Several rooms | **Conveners:** Tobias Junginger, Guillaume Jonathan Rosaz, Teng Tan**16:00-16:18 Recent SIS layer results (10'+8')****Speaker**

Claire Antoine

**16:18-16:36 Overview Multilayers RF results (10'+8')****Speaker**

Sebastian Keckert

**16:36-16:54 Nb3Sn/V3Si results (10'+8')****Speaker**

Stephanie Fernandez

**16:54-17:12 Two-stage coating of MgB2 system (10'+8')****Speaker**

Hiroshi Sakai

**17:12-17:30 CVD Thick Nb film and cavity coating (10'+8')****Speaker**

Zeming Sun

17:30

## Thursday 6 February

09:00

### Working Group Session: WG3\_Progress on Nb3Sn towards accelerator

**Session** | **Location:** CERN, 500/1-001 - Main Auditorium, Several rooms | **Conveners:**  
Tobias Junginger, Teng Tan, Guillaume Jonathan Rosaz

09:00–09:18 **Nb3Sn progressess from Cornell (10'+8')**

**Speaker**  
Ryan Porter

09:18–09:36

**Nb3Sn coated 1.5 GHz multi-cell cavities and perspectives for beam acceleration tests (10'+8')**

**Speaker**  
Grigory Ereemeev

09:36–09:54

**Advances in Nb3Sn coating at Fermilab including recent world-record performance cavity results (10'+8')**

**Speaker**  
Mr Sam Posen

09:54–10:12 **Nb3Sn thin film synthesized via bronze route (10'+8')**

**Speaker**  
Akihiro Kikuchi

10:12–10:30 **Nb3Sn from the lab to the machine (10'+8')**

**Speaker**  
Rama Calaga

10:30

11:00

### Working Group Session: WG3\_Characterization techniques

**Session** | **Location:** CERN, 500/1-001 - Main Auditorium, Several rooms | **Conveners:**  
Teng Tan, Tobias Junginger, Guillaume Jonathan Rosaz

11:00–11:18 **HIPIMS from QPR to 1.3GHz cavities (10'+8')**

**Speaker**  
Lorena Vega Cid

11:18–11:36 **Predicting SRF Performance using muSR and betaNMR (10'+8')**

**Speaker**  
Edward Thoeng

11:36–11:54 **RF local magnetometry (10'+8')**

**Speaker**  
Steven Anlage

11:54–12:12 **Predicting SRF performance PCT (10'+8')**

**Speaker**  
Thomas Proslier

12:30

12:12-12:30

## Local magnetometry (10'+8')

### Speaker

Daniel Turner