Session Program

Apr 8 – 11, 2025

TTC2025 Meeting, IRIS/IBS, Daejeon, Korea

WG-4

Science Culture Center (2F), Auditorium
IBS, Daejeon, South Korea

Wed, April 9

2:00 PM

WG-4

Session | **Location:** Science Culture Center (2F), Conference Room 2 | **Convener:** Hongtao Hou (SARI), Crispin Contreras (Fermilab), Alan Wheelhouse (STSF)

2:00 – 2:20 PM **Design of a 3rd-harmonic superconducting cavity for HALF**

Speaker
Ye-Long Wei (USTC)

2:20 – 2:40 PM **R&D of 3rd harmonic cavity for TPS Operation**

Speaker
Ming-Chyuan Lin (NSRRC)

2:40 – 3:00 PM
The stand-alone cryomodule of 3rd harmonic cavity for synchtotron light source

Speaker
Jun-Ho Han (KAT)

3:00 – 3:20 PM **Experience with the 3.9GHz cryomodules in the LCLS SC linac**

Speaker
Sebastian Aderhold (SLAC)

3:20 – 3:30 PM **Discussion**

3:30 PM

4:00 PM

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4:00 – 4:20 PM **Progress and status of SHINE 3.9GHz cavities/cryomodule**

Speaker
Xiao-Wei Wu (ZJLab)

4:20 – 4:40 PM
Progress and first operation with beam of SHINE 1.3GHz 9-cell Twin-FPC cryomodule

Speaker
Hong-Tao Hou (SARI)

4:40 – 5:00 PM **SRF photocathode gun for BNL Coherent electron Cooling**

Speaker
Binping Xiao (BNL)

5:00 – 5:20 PM **CW photoinjector for the future CW and HDC EuXFEL**

Speaker
Elmar Vogel (DESY)

5:20 – 5:30 PM **Discussion**

5:30 PM

Thu, April 10

11:00 AM

WG-4

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11:00 – 11:20 AM

Experience of Developing Highly Reliable Tuner Components (Piezo Actuators and Cold Stepper Motor Actuators) for SRF Linac.

Speaker

Crispin Contreras (Fermilab)

11:20 – 11:40 AM **HOM Damper and FPC Design for BNL EIC 197MHZ CRAB Cavity**

Speaker

Binping Xiao (BNL)

11:40 AM – 12:00 PM

HOM Couplers for HL-LHC Crab Cavities: Manufacturing Challenges and Recent Developments

Speaker

Simon Barrière (CERN)

12:00 – 12:20 PM

HOM couplers performance and adjustment experience of SHINE 1.3GHz CMs

Speaker

Xiao-Yun Pu (SARI)

12:20 – 12:30 PM **Discussion**

12:30 PM

2:00 PM

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2:00 – 2:20 PM

HOM damper and FPC for the EIC electron storage ring (ESR) 591 MHz single cell cavity

Speaker

Jiquan Guo (JLAB)

2:20 – 2:40 PM **RFD cryomodule build for SPS test**

Speaker

Nik Templeton (STFC)

2:40 – 3:00 PM **Preparations for Hi-Lumi RFD Cryomodule Assembly at TRIUMF**

Speaker

Zhongyuan Yao (Triumf)

3:00 – 3:20 PM

Frequency, Length, and Inner Surface Quality Control of Superconducting Cavities for Mass Production

Speaker

Zhi-Hui Mu (IHEP)

3:20 – 3:30 PM **Discussion**

3:30 PM