

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: WG2_Couplers and Auxiliaries

Session | **Location:** CERN, 503/1-001 - Council Chamber | **Conveners:**
Eric Montesinos, Naruhiko Sakamoto, Sang Hoon Kim

11:00–11:18 **Fundamental studies for power coupler in KEK (10'+8')**

Speaker

Yasuchika Yamamoto

11:18–11:36

R&D Toward a 500 kW CW High Power Coupler with Variable Qext (10'+8')

Speaker

Wencan Xu

11:36–11:54

Qext studies for the 1.5 GHz BESSY VSR couplers (10'+8')

Speaker

Emmy Sharples

11:54–12:12

Our experiences and troubles on FPCs for RIKEN QWR (10'+8')

Speaker

Kazutaka Ozeki

12:12–12:30

Special design considerations of high power input couplers for TEM-type superconducting cavities (10'+8')

Speaker

Tongming Huang

12:30

14:00

Working Group Session: WG2_Couplers and Auxiliaries

Session | **Location:** CERN, 503/1-001 - Council Chamber | **Conveners:**
Eric Montesinos, Sang Hoon Kim, Naruhiko Sakamoto

14:00–14:18

Update on FPC progress at DESY (10'+8')

Speaker

Denis Kostin

14:18–14:36

Experience with FPCs for the LCLS-II project at JLAB (10'+8')

Speaker

Mircea Stirbet

14:36–14:54

Test bench conditioning of the ESS couplers for elliptical cavities (10'+8')

Speaker

Christian Arcambal

14:54–15:12

High power testing of ESS FPCs on the elliptical cavities cryomodules (10'+8')

Speaker

Guillaume Devanz

15:12-15:30

Technical Issues on RF power coupler for QWR and HWR cavity in RISP (10' + 8')**Speaker**

Sangbeen Lee

15:30

16:00

Working Group Session: WG2_Couplers and Auxiliaries**Session** | **Location:** CERN, 503/1-001 - Council Chamber | **Conveners:**
Naruhiko Sakamoto, Sang Hoon Kim, Eric Montesinos

16:00-16:18

R&D Toward High Power Warm SiC Beam Line HOM Absorbers (10' + 8')**Speaker**

Doug Holmes

16:18-16:36

HOM couplers for crab cavities and challenges (10'+8')**Speaker**

James Alexander Mitchell

16:36-16:54

Newest Piezo-Actuators for High Dynamic Rate Operation (10'+8')**Speaker**

Yuriy Pischnalnikov

16:54-17:12

Compact tuner designed to minimize the intervals of QWRs for RIKEN heavy-ion linac (10'+8')**Speaker**

Kenji Suda

17:12-17:30

Resonance control with pneumatic slow frequency tuners for FRIB > half-wave resonators (10' + 8')**Speakers**

John Popielarski, Sang Hoon Kim

17:30

Wednesday 5 February

11:00

Working Group Session: WG2_Couplers and Auxiliaries

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Conveners:**
Sang Hoon Kim, Eric Montesinos, Naruhiko Sakamoto

11:00-11:23

Power Couplers - Technology, manufacturing, and four ways to procure for half the price (15' + 8')

Speaker

Steve Einarson

11:23-11:46

THALES experience for EU-XFEL project - From the (non)pre-industrialization phase to mass production (15'+8')

Speaker

Stephane Bethuys

11:46-12:09

Development of fundamental power couplers for several years at CETD (15' + 8')

Speaker

Masao Irikura

12:09-12:30

Remarks on the industrial production of FPC (15' + 8')

Speaker

Daniel Trompetter

12:30

14:00

Working Group Session: WG4_New Fabrication Methods (1 /2)

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Conveners:**
Stephane Berry, Tug Arkan, Hiroshi Sakai

14:00-14:15

Seamless cavities via electrodeposition

Speaker

Lucia Lain Amador

14:15-14:30

Developments of Niobium atomize powder for superconducting

Speaker

Takeshi Dohmae

14:30-14:45

Metal Additive Manufacturing at CERN in general and SRF Niobium

Speaker

Romain Gerard

14:45-15:00

Electron beam welding for cavity production, collaboration with KEK on internal welding of 1.3GHz type cavities

Speaker

Peter Oving

15:00-15:15

Novel Technologies applied to SRF (cavity) fabrication

Speaker

Said Atieh

15:15-15:30 Fabrication Experience with Balloon SSR Cavity at TRIUMF**Speaker**

Robert Edward Laxdal

15:30

16:00

Working Group Session: WG4_New Fabrication Methods (2 /2) and Alternative Cooling Techniques**Session** | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Conveners:** Hiroshi Sakai, Tug Arkan, Stéphane BERRY**16:00-16:15 RFD crab cavities manufacturing experience at CERN****Speaker**

Marco Garlasche

16:15-16:30 Methods and results of laser welding of niobium**Speaker**

Kyle Branigan

16:30-16:45**Stand-Alone Cryocooler-Based Module for the ATLAS Multi-User Upgrade****Speaker**

Michael Kelly

16:45-17:00**An effective thermal link for cooling cryo-magnetic systems : The Pulsating Heat Pipe (PHP)****Speaker**

Dr Bertrand Baudouy

17:00-17:15 Developing conduction-cooled SRF cavities and first test results**Speaker**

Dr Ram Dhuley

17:15-17:30 Results from a multi-metallic conduction-cooled SRF single-cell cavity**Speaker**

Robert Alan Rimmer

17:30

Thursday 6 February

09:00

Working Group Session: WG4_Non standard concepts

Session | **Location:** CERN, 503/1-001 - Council Chamber | **Conveners:** Stéphane BERRY, Tug Arkan, Hiroshi Sakai

09:00–09:15

Measurement results of moving particles during STF cryomodule assembly under slow pumping/venting in KEK (12/20)

Speaker

Hiroshi Sakai

09:15–09:30

IFMIF/QST on dust particle measurements by using "a vacuum particle counter"

Speaker

Takashi Ebisawa

09:30–09:45

Cryomodule design, assembly and installation utilizing "KOACH" system

Speaker

Nari Yamada

09:45–10:00

plasma processing and particulate's composition

Speaker

Bianca Giaccone

10:00–10:15

Development of the position monitor by white light interferometer method in cryomodule at cERL

Speaker

Hiroshi Sakai

10:15–10:30

Computer Vision solutions for Robot-assisted technology in SRF assembly at Fermilab

Speaker

Silvia Zorzetti

10:30

11:00

Working Group Session: WG4_Robotic Techniques

Session | **Location:** CERN, 503/1-001 - Council Chamber | **Conveners:** Tug Arkan, Hiroshi Sakai, Stéphane BERRY

11:00–11:15

Robotics HPR Application for Elliptical FRIB Upgrade Cavity

Speaker

Laura Popielarski

11:15–11:30

Robot assisted cavity HPR and assembly at IMP

Speakers

Hao GUO, Teng Tan

11:30-11:45

Remote handling of UHV beam pipe connections in high-radiation zones**Speaker**

Lukasz Piotr Krzempek

11:45-12:00

Robotic disk stacking for the production of RF structures**Speaker**

Riccardo Zennaro

12:00-12:15

Chemical & Electropolishing facility for niobium (HL-LHC) and copper (FCC) substrates**Speaker**

Valentin Gerbet

12:15-12:30

Seeking for a novel fabrication technology large-bore SRF-QWR cavity for 1-ampere class linac**Speaker**

Hiroki Okuno

12:45