

**Second Topical Workshop on
Microphonics, LLRF
Workshop Series**

Report of Contributions

Contribution ID: 25

Type: **not specified**

Welcome and Information

Thursday, 25 October 2018 08:00 (15 minutes)

Presenters: HOVATER, Curt (Jefferson Lab); SMITH, Kevin S (BNL)

Contribution ID: 26

Type: **not specified**

Announcements

Friday, 26 October 2018 08:00 (5 minutes)

Presenters: HOVATER, Curt (Jefferson Lab); SMITH, Kevin S (BNL)

Contribution ID: 27

Type: **not specified**

An Experimental Setup to Detect Microphonics in the 500MHz CESR Cavities at SSRF

Presenter: HUANG, Xuefang (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

Session Classification: Session 8

Contribution ID: 28

Type: **not specified**

RF Commissioning of the First Three Beta=0.041 Quarter Wave Resonator Cryomodules in FRIB Driver Linac

Presenter: KIM, Sanghoon (FRIB/MSU)

Session Classification: Session 8

Contribution ID: 29

Type: **not specified**

Performance Test of Prototype Cryomodules for RAON

Presenter: KIM, Youngkwon (RISP, IBS)

Session Classification: Session 8

Contribution ID: **30**

Type: **not specified**

LHC Hi-Lumi Special: SPS-DQW Crab Cavity Cryomodule Measurement Experience

Presenter: CALAGA, Rama (CERN)

Session Classification: Session 8

Contribution ID: **31**

Type: **not specified**

Summary Presentation

Friday, 26 October 2018 16:55 (20 minutes)

Session Classification: Session 8

Contribution ID: 36

Type: **not specified**

Microphonics and Resonance Control from the RF Perspective

Thursday, 25 October 2018 08:15 (35 minutes)

Presenter: Mr CHASE, Brian (Fermilab)

Session Classification: Session 1

Contribution ID: 37

Type: **not specified**

Cryomodule Design from the Cryo-Mechanical Perspective

Thursday, 25 October 2018 08:50 (35 minutes)

Presenter: CONWAY, Zachary (Argonne National Laboratory)

Session Classification: Session 1

Contribution ID: 38

Type: **not specified**

Microphonics and Resonance Control from the Cryo-Mechanical Perspective - TTF XFEL Cryomod Design

Thursday, 25 October 2018 09:25 (25 minutes)

Presenter: JENSCH, Kay (DESY)

Session Classification: Session 1

Contribution ID: 39

Type: **not specified**

Microphonics Diagnosis and Mitigation during LCLS-II Cryomodule Testing at FNAL

Thursday, 25 October 2018 09:50 (25 minutes)

Presenter: HOLZBAUER, Jeremiah (Fermilab)

Session Classification: Session 1

Contribution ID: 40

Type: **not specified**

Q & A

Thursday, 25 October 2018 10:15 (10 minutes)

Session Classification: Session 1

Contribution ID: 41

Type: **not specified**

Vibration studies on TTF cryomodules: A Summary of the Work Done So Far

Thursday, 25 October 2018 10:55 (25 minutes)

Presenter: BARBANOTTI, Serena

Session Classification: Session 2

Contribution ID: 42

Type: **not specified**

Passive Measures to Address Microphonics on Installed Systems

Thursday, 25 October 2018 11:20 (25 minutes)

Presenter: POWERS, Tom (JLAB)

Session Classification: Session 2

Contribution ID: 43

Type: **not specified**

MICROPHONICS STUDY OF ARIEL ACM1 TWO CAVITIES CRYOMODULE

Thursday, 25 October 2018 11:45 (20 minutes)

Presenter: MA, Yanyun (TRIUMF)

Session Classification: Session 2

Contribution ID: 44

Type: **not specified**

LHC SPS DQW Crab Cavity Cryomodule Experience

Thursday, 25 October 2018 12:05 (20 minutes)

Presenters: CALAGA, Rama (CERN); CALAGA, Rama (BNL)

Session Classification: Session 2

Contribution ID: 45

Type: **not specified**

Control system design for SRF cavity based on Kalman Filter observer

Presenter: USHAKOV, Andriy (Helmholtz Zentrum Berlin)

Session Classification: Session 3

Contribution ID: 46

Type: **not specified**

ARC Algorithm Development for the LCLS II Project

Thursday, 25 October 2018 14:15 (20 minutes)

Presenter: SCHAPPERT, Warren (Fermi National Accelerator Laboratory)

Session Classification: Session 3

Contribution ID: 47

Type: **not specified**

Superconducting Radio-Frequency Virtual Cavity for Hardware-in-the-Loop Testing of Control Algorithms

Thursday, 25 October 2018 14:35 (20 minutes)

Presenter: GARCIA, Josu Jugo (University of the Basque Country)

Session Classification: Session 3

Contribution ID: 48

Type: **not specified**

Potential Application of Advanced Control Algorithm for Fast Tuner Control

Thursday, 25 October 2018 14:55 (15 minutes)

Presenter: ZHAO, Shen (FRIB-MSU)

Session Classification: Session 3

Contribution ID: 49

Type: **not specified**

Cryomodule on a Chip

Thursday, 25 October 2018 15:10 (15 minutes)

Presenter: DOOLITTLE, Larry (LBNL)

Session Classification: Session 3

Contribution ID: 50

Type: **not specified**

Q & A

Thursday, 25 October 2018 15:25 (5 minutes)

Session Classification: Session 3

Contribution ID: 51

Type: **not specified**

CW Studies at DESY's Cryomodule Test Bench

Thursday, 25 October 2018 16:00 (25 minutes)

Presenter: BRANLARD, Julien (DESY)

Session Classification: Session 4

Contribution ID: 52

Type: **not specified**

Vector Sum Accelerating Field Parameters Regulation of Single EX-FEL Module Working in CW Mode in High QL (6e7) Conditions

Thursday, 25 October 2018 16:25 (20 minutes)

Presenter: CICHALEWSKI, Wojciech (Lodz University of Technology - Department of Microelectronics and Computer Science)

Session Classification: Session 4

Contribution ID: 53

Type: **not specified**

Microphonics, Transfer Function Characterization and Preliminary Active Piezo Compensation of a 56 MHz Beam Driven SRF Cavity at RHIC

Thursday, 25 October 2018 16:45 (20 minutes)

Presenter: SEVERINO, Freddy (BNL)

Session Classification: Session 4

Contribution ID: 54

Type: **not specified**

Coupled Mechanical Oscillations in Multiple Cryomodule Driven by a Single Klystron

Thursday, 25 October 2018 17:05 (15 minutes)

Presenter: LEEWE, Ramona (TRIUMF)

Session Classification: Session 4

Contribution ID: 55

Type: **not specified**

Fine Frequency Resolution Transfer Function Measurements of a Cavity System to Characterize High-Q Mechanical Resonances

Thursday, 25 October 2018 17:20 (15 minutes)

Presenter: VARGHESE, Philip (Fermilab)

Session Classification: Session 4

Contribution ID: 56

Type: **not specified**

Q & A

Thursday, 25 October 2018 17:35 (5 minutes)

Session Classification: Session 4

Contribution ID: 57

Type: **not specified**

Microphonics Control Studies for High QL SRF Cavities and Module Commissioning of the bERLinPro SRF Gun

Friday, 26 October 2018 08:35 (25 minutes)

Presenter: Dr NEUMANN, Axel (Helmholtz Zentrum Berlin)

Session Classification: Session 5

Contribution ID: 58

Type: **not specified**

Experience with Microphonics in the CBETA Main Linac Cryomodule

Friday, 26 October 2018 09:00 (20 minutes)

Presenter: BANERJEE, Nilanjan (Cornell University)

Session Classification: Session 5

Contribution ID: 59

Type: **not specified**

Current Status of Microphonics and LLRF Control at cERL

Friday, 26 October 2018 09:20 (20 minutes)

Presenter: MIURA, Takako (KEK)

Session Classification: Session 5

Contribution ID: **60**

Type: **not specified**

Beam Induced Microphonics in High Current Synchrotrons

Friday, 26 October 2018 09:40 (15 minutes)

Presenter: ROSE, James (BNL)

Session Classification: Session 5

Contribution ID: **61**

Type: **not specified**

Microphonics Considerations for BESSY-VSR

Friday, 26 October 2018 09:55 (15 minutes)

Presenter: Dr ECHEVARRIA, Pablo (Helmholtz Zentrum Berlin)

Session Classification: Session 5

Contribution ID: **62**

Type: **not specified**

Microphonics Experience in HIE-ISOLDE at CERN

Friday, 26 October 2018 10:10 (15 minutes)

Presenter: MIYAZAKI, Akira (CERN)

Session Classification: Session 5

Contribution ID: 63

Type: **not specified**

Cryomodule-Related Site Vibration Measurements at SHINE

Presenter: DENG, rongbing

Session Classification: Session 5

Contribution ID: **64**

Type: **not specified**

Q & A

Friday, 26 October 2018 10:25 (5 minutes)

Session Classification: Session 5

Contribution ID: 65

Type: **not specified**

Hot Topic Q&A

Session Classification: Session 6

Contribution ID: **66**

Type: **not specified**

Piezo Control at DESY from FLASH to XFEL

Presenter: GRECKI, Mariusz (DESY)

Session Classification: Session 6

Contribution ID: 67

Type: **not specified**

PIP-II Pulsed Resonance Control

Presenter: SCHAPPERT, Warren (Fermi National Accelerator Laboratory)

Session Classification: Session 6

Contribution ID: **68**

Type: **not specified**

Initial ESS Prototype High Beta Cavity Piezo Based Characterization and First LFD Compensation Experiences

Presenter: CICHALEWSKI, Wojciech (Lodz University of Technology - Department of Microelectronics and Computer Science)

Session Classification: Session 6

Contribution ID: **69**

Type: **not specified**

Q & A

Session Classification: Session 6

Contribution ID: 70

Type: **not specified**

FNAL Tuners: LCLS-II to PIP-II

Friday, 26 October 2018 11:00 (25 minutes)

Presenter: PISCHALNIKOV, Yuriy (Fermi National Accelerator Laboratory)

Session Classification: Session 6

Contribution ID: 71

Type: **not specified**

Low Beta Tuner Design

Friday, 26 October 2018 11:25 (25 minutes)

Presenter: KELLY, Michael (ANL)

Session Classification: Session 6

Contribution ID: 72

Type: **not specified**

JLAB Tuners: 1980 - 2018

Friday, 26 October 2018 11:50 (25 minutes)

Presenter: HUQUE, Naeem (JLAB)

Session Classification: Session 6

Contribution ID: 73

Type: **not specified**

Digital Pneumatic Tuner Control for FRIB Half Wave Resonators

Friday, 26 October 2018 12:15 (20 minutes)

Presenter: MANIAR, Harsh (FRIB-MSU)

Session Classification: Session 6

Contribution ID: 74

Type: **not specified**

Q & A

Friday, 26 October 2018 12:35 (5 minutes)

Session Classification: Session 6

Contribution ID: 75

Type: **not specified**

Hot Topic Q&A

Session Classification: Session 7

Contribution ID: 76

Type: **not specified**

Piezo Control at DESY from FLASH to XFEL

Friday, 26 October 2018 14:10 (25 minutes)

Presenter: GRECKI, Mariusz (DESY)

Session Classification: Session 7

Contribution ID: 77

Type: **not specified**

PIP-II Pulsed Resonance Control

Friday, 26 October 2018 14:35 (20 minutes)

Presenter: SCHAPPERT, Warren (Fermi National Accelerator Laboratory)

Session Classification: Session 7

Contribution ID: 78

Type: **not specified**

Initial ESS Prototype High Beta Cavity Piezo Based Characterization and First LFD Compensation Experiences

Friday, 26 October 2018 14:55 (15 minutes)

Presenter: CICHALEWSKI, Wojciech (Lodz University of Technology - Department of Microelectronics and Computer Science)

Session Classification: Session 7

Contribution ID: 79

Type: **not specified**

Q & A

Session Classification: Session 7

Contribution ID: **80**

Type: **not specified**

Q &A

Thursday, 25 October 2018 12:25 (5 minutes)

Session Classification: Session 2

Contribution ID: **81**

Type: **not specified**

Open Q & A

Friday, 26 October 2018 08:05 (30 minutes)

Session Classification: Session 5

Contribution ID: 82

Type: **not specified**

RF Commissioning of the First Three Beta = 0.041 Quarter Wave Resonator Cryomodule in FRIB Driver Linac

Friday, 26 October 2018 15:10 (15 minutes)

Presenter: KIM, Sanghoon (FRIB/MSU)

Session Classification: Session 7

Contribution ID: **83**

Type: **not specified**

Performance Test of Prototype Cryomodules for RAON

Friday, 26 October 2018 15:25 (15 minutes)

Presenter: KIM, Youngkwon (RISP, IBS)

Session Classification: Session 7

Contribution ID: **84**

Type: **not specified**

Control System Design for SRF Cavity Based on Kalman Filter

Friday, 26 October 2018 16:10 (20 minutes)

Presenter: USHAKOV, Andriy (Helmholtz Zentrum Berlin)

Session Classification: Session 8

Contribution ID: **85**

Type: **not specified**

Open Q & A

Friday, 26 October 2018 16:30 (25 minutes)

Session Classification: Session 8