

**TTC Meeting at SLAC,  
December 1 - 4, 2015**

**Report of Contributions**

Contribution ID: 0

Type: **not specified**

**test**

Contribution ID: 1

Type: **not specified**

## Doping: introduction

Contribution ID: 2

Type: **not specified**

## Q&A

Contribution ID: 3

Type: **not specified**

## **Dependence of superconducting parameters on the field**

Contribution ID: 4

Type: **not specified**

## **Possible field dependence of superconducting gap for N-doped cavities**

Contribution ID: 5

Type: **not specified**

## **Model for the field dependence**

Contribution ID: 6

Type: **not specified**

## **Insight from BCS fitting at different fields**



Contribution ID: 7

Type: **not specified**

## **Microwave field-induced suppression of $R_s$ in dirty niobium**

Contribution ID: 8

Type: **not specified**

## **Possible unoptimal doping**

Contribution ID: 9

Type: **not specified**

# DISCUSSION

Contribution ID: **10**

Type: **not specified**

## **Intro: realistic magnetic fields in accelerators**

*Wednesday, 2 December 2015 09:00 (15 minutes)*

**Presenter:** CHANDRASEKARAN, Saravan (Fermilab)

**Session Classification:** WG1 - High Q, Conveners: A Romanenko (FNAL), F. Furuta (Cornell), K. Umemori (KEK)

Contribution ID: **11**

Type: **not specified**

## Q&A

*Wednesday, 2 December 2015 09:15 (15 minutes)*

**Session Classification:** WG1 - High Q, Conveners: A Romanenko (FNAL), F. Furuta (Cornell), K. Umemori (KEK)

Contribution ID: 12

Type: **not specified**

## **Flux expulsion for different cavity materials and treatments**

*Wednesday, 2 December 2015 09:30 (25 minutes)*

**Presenter:** POSEN, Sam (Fermilab)

**Session Classification:** WG1 - High Q, Conveners: A Romanenko (FNAL), F. Furuta (Cornell), K. Umemori (KEK)

Contribution ID: 13

Type: **not specified**

## **Model to explain the observed flux expulsion dependence on the thermal gradient**

*Wednesday, 2 December 2015 09:55 (25 minutes)*

**Presenter:** KUBO, Takayuki (KEK)

**Session Classification:** WG1 - High Q, Conveners: A Romanenko (FNAL), F. Furuta (Cornell), K. Umemori (KEK)

Contribution ID: 14

Type: **not specified**

## **Trapped flux dissipation for different surface treatments: results and model**

*Wednesday, 2 December 2015 10:20 (25 minutes)*

**Presenter:** MARTINELLO, Martina (Fermilab)

**Session Classification:** WG1 - High Q, Conveners: A Romanenko (FNAL), F. Furuta (Cornell), K. Umemori (KEK)



Contribution ID: 15

Type: **not specified**

## **Model for the trapped flux dissipation for different values of mfp**

Contribution ID: 16

Type: **not specified**

## **Dissipative motion of trapped flux and its relation to the mean free path**

*Wednesday, 2 December 2015 10:45 (25 minutes)*

**Presenter:** GUREVICH, Alex (Old Dominion University)

**Session Classification:** WG1 - High Q, Conveners: A Romanenko (FNAL), F. Furuta (Cornell), K. Umemori (KEK)

Contribution ID: 17

Type: **not specified**

## DISCUSSION

*Wednesday, 2 December 2015 11:10 (25 minutes)*

**Session Classification:** WG1 - High Q, Conveners: A Romanenko (FNAL), F. Furuta (Cornell), K. Umemori (KEK)

Contribution ID: **18**

Type: **not specified**

## Welcome + Introduction

*Wednesday, 2 December 2015 14:00 (5 minutes)*

**Presenters:** RESCHKE, Detlef (DESY); ZHAI, Jiyuan (IHEP); MCINTOSH, Peter (peter.mcintosh@stfc.ac.uk); BOUSSON, Sebastien (IPN Orsay)

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)

Contribution ID: 19

Type: **not specified**

## **Session 1: Feedback from industry about cavity production: Industrial perspective on working with scientific customers**

*Wednesday, 2 December 2015 14:05 (5 minutes)*

**Presenters:** RESCHKE, Detlef (DESY); MCINTOSH, Peter (peter.mcintosh@stfc.ac.uk); BOUSSON, Sebastien (IPN Orsay)

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)

Contribution ID: 20

Type: **not specified**

## Organization

Contribution ID: 21

Type: **not specified**

## **Session 1, Talk 1 of 3: RI's view on cavity production (European XFEL, ...)**

*Wednesday, 2 December 2015 14:10 (15 minutes)*

**Presenter:** PEKELER, Michael (RI Research Instruments GmbH)

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)

Contribution ID: 22

Type: **not specified**

**EZ's view on cavity production (European XFEL,  
SNS, ...) incl. 00:05 min questions**



Contribution ID: 23

Type: **not specified**

## **Session 1, Talk 2 of 3: PAVAC's view on cavity production(FRIB, ...) incl. 00:05 min questions**

*Wednesday, 2 December 2015 14:25 (15 minutes)*

**Presenter:** EDINGER, Ralf (Pavac Industries, Inc.)

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)

Contribution ID: 24

Type: **not specified**

## **Session 1, Talk 3 of 3: MHI's view on cavity production**

*Wednesday, 2 December 2015 14:40 (15 minutes)*

**Presenter:** SENNYU, Katsuya (MHI-MS)

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)

Contribution ID: 25

Type: **not specified**

## Discussion

*Wednesday, 2 December 2015 14:55 (20 minutes)*

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)

Contribution ID: 26

Type: **not specified**

## Coffee Break

*Wednesday, 2 December 2015 15:15 (30 minutes)*

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)

Contribution ID: 27

Type: **not specified**

## **Performance of LG and FG dressed cavities in XFEL cryomodules**

*Wednesday, 2 December 2015 15:45 (30 minutes)*

**Presenter:** SEKUTOWICZ, Jacek (DESY)

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)

Contribution ID: 28

Type: **not specified**

## **HWR015 and HWR030 cavities for C-ADS (incl. 00:05 min questions)**

*Wednesday, 2 December 2015 16:15 (15 minutes)*

**Presenter:** LI, Yongming (Institute of Modern Physics, Chinese Academy of Sciences)

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)

Contribution ID: 29

Type: **not specified**

## **Production of high purity niobium for SRF accelerators (incl. 00:05 min questions)**

*Wednesday, 2 December 2015 16:30 (15 minutes)*

**Presenter:** NAGATA, Tomohiro (ULVAC Inc.)

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)

Contribution ID: 30

Type: **not specified**

## **Fabrication and evaluation of low RRR large grain single cell cavity (incl. 00:05 min questions)**

*Wednesday, 2 December 2015 16:45 (15 minutes)*

**Presenter:** YAMANAKA, Masashi (KEK)

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)



Contribution ID: 31

Type: **not specified**

## **Niobium materials with large grain and fine grain at Tokyo Denkai (incl. 00:05 minutes questions)**

*Wednesday, 2 December 2015 17:00 (15 minutes)*

**Presenter:** UMEZAWA, Hiroaki (Tokyo Denkai Co., Ltd.)

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)

Contribution ID: **32**

Type: **not specified**

## Introduction

*Thursday, 3 December 2015 09:00 (5 minutes)*

**Presenters:** MONTESINOS, Eric (CERN); PARARELLA, Rocco (INFN Milano); KAABI, Walid (LAL-CNRS); PISCHALNIKOV, Yuriy (Fermilab)

**Session Classification:** WG 4 - FP Tuners, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 33

Type: **not specified**

## ADS Spoke cavities

*Thursday, 3 December 2015 09:05 (15 minutes)*

**Presenter:** MI, Zhenghui (Institute of High Energy Physics, Chinese Academy of Sciences)

**Session Classification:** WG 4 - FP Tuners, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 34

Type: **not specified**

## ESS & Spiral 2

*Thursday, 3 December 2015 09:20 (20 minutes)*

**Presenter:** GANDOLFO, Nicolas (IPN Orsay)

**Session Classification:** WG 4 - FP Tuners, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 35

Type: **not specified**

## **cERL**

*Thursday, 3 December 2015 09:40 (15 minutes)*

**Presenter:** UMEMORI, Kensei (KEK)

**Session Classification:** WG 4 - FP Tuners, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: **36**

Type: **not specified**

## **STF**

*Thursday, 3 December 2015 09:55 (15 minutes)*

**Presenter:** YAMAMOTO, Yasuchika (KEK)

**Session Classification:** WG 4 - FP Tuners, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 37

Type: **not specified**

## CEBAF&SNS

*Thursday, 3 December 2015 10:10 (15 minutes)*

**Presenter:** DALY, Edward (Jefferson Lab)

**Session Classification:** WG 4 - FP Tuners, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: **38**

Type: **not specified**

## **SNS experience**

*Thursday, 3 December 2015 10:25 (15 minutes)*

**Presenter:** MAMMOSSER, John (ORNL/SNS)

**Session Classification:** WG 4 - FP Tuners, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)



Contribution ID: 39

Type: **not specified**

## **XFEL tuner assembly experience**

*Thursday, 3 December 2015 10:40 (20 minutes)*

**Presenter:** TRUBLET, Thierry (CEA Saclay)

**Session Classification:** WG 4 - FP Tuners, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 40

Type: **not specified**

## **XFEL 3.9GHz & 1.3GHz tuner**

*Thursday, 3 December 2015 11:00 (20 minutes)*

**Presenter:** PAPARELLA, Rocco (INFN Milano)

**Session Classification:** WG 4 - FP Tuners, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 41

Type: **not specified**

## **LCLS II tuner/lifetime tests**

*Thursday, 3 December 2015 11:20 (15 minutes)*

**Presenter:** PISCHALNIKOV, Yuriy (Fermilab)

**Session Classification:** WG 4 - FP Tuners, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 42

Type: **not specified**

## DISCUSSION

*Thursday, 3 December 2015 11:35 (25 minutes)*

**Session Classification:** WG 4 - FP Tuners, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 43

Type: **not specified**

## Introduction

Contribution ID: 44

Type: **not specified**

## **LCLS-II challenges**

Contribution ID: 45

Type: **not specified**

## **FPC out-gassing**

Contribution ID: 46

Type: **not specified**

## **Experience of FPC mass production**



Contribution ID: 47

Type: **not specified**

## **XFEL coupler Mass production at LAL**

Contribution ID: 48

Type: **not specified**

## **CPI experience**

**Presenter:** TREADO, Todd

Contribution ID: 49

Type: **not specified**

## Introduction

*Wednesday, 2 December 2015 14:00 (5 minutes)*

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 50

Type: **not specified**

## **LCLS-II challenges**

*Wednesday, 2 December 2015 14:05 (15 minutes)*

**Presenter:** ADOLPHSEN, Chris (SLAC National Accelerator Laboratory)

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 51

Type: **not specified**

## **FPC out-gassing**

*Wednesday, 2 December 2015 14:20 (15 minutes)*

**Presenter:** STIRBET, Mircea (JLab)

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 52

Type: **not specified**

## Experience of FPC mass production

*Wednesday, 2 December 2015 14:35 (15 minutes)*

**Presenter:** SIERRA, Serge

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 53

Type: **not specified**

## **XFEL coupler Mass production at LAL**

*Wednesday, 2 December 2015 14:50 (15 minutes)*

**Presenter:** KAABI, Walid (LAL)

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 54

Type: **not specified**

## **CPI experience**

*Wednesday, 2 December 2015 15:05 (15 minutes)*

**Presenter:** TREADO, Todd (CPI)

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)



Contribution ID: 55

Type: **not specified**

## **TTF-III like coupler R&D in IMP**

*Wednesday, 2 December 2015 15:20 (15 minutes)*

**Presenter:** LI, Yongming (IMP)

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 56

Type: **not specified**

## SNS

*Wednesday, 2 December 2015 15:50 (15 minutes)*

**Presenter:** MAMMOSSER, John (ORNL)

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 57

Type: **not specified**

## **Performance for STF-II coupler in STF-2 Cryomodule / R&D for 40mm STF coupler for the ILC**

*Wednesday, 2 December 2015 16:05 (15 minutes)*

**Presenter:** YAMAMOTO, Yasuchka (KEK)

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 58

Type: **not specified**

## **Manufacturing of the IFMIF FPC**

*Wednesday, 2 December 2015 16:20 (15 minutes)*

**Presenter:** JENHANI, Hassen (CEA)

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 59

Type: **not specified**

## Detachable coupler

*Wednesday, 2 December 2015 16:35 (15 minutes)*

**Presenter:** XIE, Yi (FNAL)

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: **60**

Type: **not specified**

## **HIE-Isolde FPC**

*Wednesday, 2 December 2015 16:50 (15 minutes)*

**Presenter:** MIYASAKI, Akira (CERN)

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: **61**

Type: **not specified**

## **TETD's fabrication experiences**

Contribution ID: 62

Type: **not specified**

## **TETD's fabrication experiences**

*Wednesday, 2 December 2015 17:05 (10 minutes)*

**Presenter:** YUSHIRO, Osamu (Toshiba)

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)



Contribution ID: **63**

Type: **not specified**

## Discussion

*Wednesday, 2 December 2015 17:20 (15 minutes)*

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: **64**

Type: **not specified**

## Break

*Wednesday, 2 December 2015 15:35 (15 minutes)*

**Session Classification:** WG 4 - FP Couplers, Conveners: Y. Pischnalnikov (FNAL), R. Paparella (INFN), W. Kaabi (LAL), E. Montesinos (CERN)

Contribution ID: 65

Type: **not specified**

## **Cryomodule Development & Integration Experience**

**Presenters:** GE, Rui (IHEP); PATTALWAR, Shrikant (STFC Daresbury); TRUBLET, Thierry (CEA)

Contribution ID: **66**

Type: **not specified**

## **Cryomodule Performance including Degradation**

**Presenter:** YAMAMOTO, Kirk (KEK)

Contribution ID: 67

Type: **not specified**

## **Cryomodule Performance including Degradation**

**Presenters:** MIYAZAKI, Akira (CERN); MAMMOSSER, J. (SNS); YAMAMOTO, Kirk (KEK); WALKER, Nick (DESY); BERRY, Stéphane (CEA)

Contribution ID: **68**

Type: **not specified**

## **Materials issues**

**Presenters:** NAKAI, Hirotaka (KEK); KALUZNY, Josh (FNAL); BERRY, Stéphane (CEA); TRUBLET, Thierry (CEA)

Contribution ID: **69**

Type: **not specified**

## **Installation and Rework/Remediation issues**

**Presenters:** JENSCH, K. (DESY); BERRY, Stéphane (CEA)

Contribution ID: 70

Type: **not specified**

## Summary of WG-3



Contribution ID: 71

Type: **not specified**

## Doping: introduction

*Tuesday, 1 December 2015 14:00 (15 minutes)*

**Presenter:** ROMANENKO, A. (Fermilab)

**Session Classification:** WG 1 : High-Q - Conveners: A. Romanenko (FNAL), F. Furuta (Cornell - TBC), K. Umemori (KEK) (30 min coffee Break incl.)

Contribution ID: 72

Type: **not specified**

## Q&A

*Tuesday, 1 December 2015 14:15 (15 minutes)*

**Session Classification:** WG 1 : High-Q - Conveners: A. Romanenko (FNAL), F. Furuta (Cornell - TBC), K. Umemori (KEK) (30 min coffee Break incl.)

Contribution ID: 73

Type: **not specified**

## **Dependence of superconducting parameters on the field**

*Tuesday, 1 December 2015 14:30 (25 minutes)*

**Presenter:** PALCZEWSKI, Ari (JLab)

**Session Classification:** WG 1 : High-Q - Conveners: A. Romanenko (FNAL), F. Furuta (Cornell - TBC), K. Umemori (KEK) (30 min coffee Break incl.)

Contribution ID: 74

Type: **not specified**

## **Possible field dependence of superconducting gap for N-doped cavities**

*Tuesday, 1 December 2015 14:55 (25 minutes)*

**Presenter:** GONNELLA, D. (Cornell)

**Session Classification:** WG 1 : High-Q - Conveners: A. Romanenko (FNAL), F. Furuta (Cornell - TBC), K. Umemori (KEK) (30 min coffee Break incl.)

Contribution ID: 75

Type: **not specified**

## **Model for the field dependence**

*Tuesday, 1 December 2015 15:20 (25 minutes)*

**Presenter:** XIAO, B. (BNL)

**Session Classification:** WG 1 : High-Q - Conveners: A. Romanenko (FNAL), F. Furuta (Cornell - TBC), K. Umemori (KEK) (30 min coffee Break incl.)

Contribution ID: 76

Type: **not specified**

## **Insight from BCS fitting at different fields**

*Tuesday, 1 December 2015 15:45 (25 minutes)*

**Presenter:** CHECCHIN, M. (FNAL)

**Session Classification:** WG 1 : High-Q - Conveners: A. Romanenko (FNAL), F. Furuta (Cornell - TBC), K. Umemori (KEK) (30 min coffee Break incl.)

Contribution ID: 77

Type: **not specified**

## **Microwave field-induced suppression of $R_s$ in dirty niobium**

*Tuesday, 1 December 2015 16:10 (25 minutes)*

**Presenter:** GUREVICH, A. (ODU)

**Session Classification:** WG 1 : High-Q - Conveners: A. Romanenko (FNAL), F. Furuta (Cornell - TBC), K. Umemori (KEK) (30 min coffee Break incl.)

Contribution ID: 78

Type: **not specified**

## **Possible unoptimal doping**

*Tuesday, 1 December 2015 16:35 (25 minutes)*

**Presenter:** UMEMORI, K. (KEK)

**Session Classification:** WG 1 : High-Q - Conveners: A. Romanenko (FNAL), F. Furuta (Cornell - TBC), K. Umemori (KEK) (30 min coffee Break incl.)



Contribution ID: 79

Type: **not specified**

## DISCUSSION

*Tuesday, 1 December 2015 17:00 (30 minutes)*

**Session Classification:** WG 1 : High-Q - Conveners: A. Romanenko (FNAL), F. Furuta (Cornell - TBC), K. Umemori (KEK) (30 min coffee Break incl.)

Contribution ID: **80**

Type: **not specified**

## **Cryomodule Development & Integration Experience: Introduction**

*Tuesday, 1 December 2015 14:00 (10 minutes)*

**Presenters:** HARMS, Elvin (Fermilab); Prof. NAKAI, Hirotaka (KEK); PREBLE, Joe (JLab); Mr BERRY, Stéphane (CEA-Saclay)

**Session Classification:** WG 3 : Cryomodule - Conveners: E. Harms (FNAL), H. Nakai (KEK), J. Preble (Jlab), S. Berry (CEA) (30 minutes Coffee Break incl.)

Contribution ID: **81**

Type: **not specified**

## **Cryomodule Development & Integration Experience: Cryomodule Development for C-ADS Injector I**

*Tuesday, 1 December 2015 14:10 (15 minutes)*

**Presenter:** GE, Rui (IHEP)

**Session Classification:** WG 3 : Cryomodule - Conveners: E. Harms (FNAL), H. Nakai (KEK), J. Preble (Jlab), S. Berry (CEA) (30 minutes Coffee Break incl.)

Contribution ID: 82

Type: **not specified**

## **Cryomodule Development & Integration Experience: Essential factors for improving reliability in cryomodule assembly**

*Tuesday, 1 December 2015 14:25 (15 minutes)*

**Presenter:** TRUBLET, thierry (CEA Saclay)

**Session Classification:** WG 3 : Cryomodule - Conveners: E. Harms (FNAL), H. Nakai (KEK), J. Preble (Jlab), S. Berry (CEA) (30 minutes Coffee Break incl.)

Contribution ID: 83

Type: **not specified**

## **Cryomodule Development & Integration Experience: Horizontal Tests in a Vertical Cryostat for qualifying ESS high-Beta dressed cavities**

*Tuesday, 1 December 2015 14:40 (15 minutes)*

**Presenter:** PATTALWAR, Shrikan (STFC Daresbury)

**Session Classification:** WG 3 : Cryomodule - Conveners: E. Harms (FNAL), H. Nakai (KEK), J. Preble (Jlab), S. Berry (CEA) (30 minutes Coffee Break incl.)

Contribution ID: 84

Type: **not specified**

## **Cryomodule Development & Integration Experience: Discussion (all)**

*Tuesday, 1 December 2015 14:55 (20 minutes)*

**Session Classification:** WG 3 : Cryomodule - Conveners: E. Harms (FNAL), H. Nakai (KEK), J. Preble (Jlab), S. Berry (CEA) (30 minutes Coffee Break incl.)

Contribution ID: 85

Type: **not specified**

## **Cryomodule Performance including Degradation: Ongoing measurements cavity results in STF cryomodules**

*Tuesday, 1 December 2015 15:15 (30 minutes)*

**Presenter:** YAMAMOTO, Kirk (KEK)

**Session Classification:** WG 3 : Cryomodule - Conveners: E. Harms (FNAL), H. Nakai (KEK), J. Preble (Jlab), S. Berry (CEA) (30 minutes Coffee Break incl.)

Contribution ID: 86

Type: **not specified**

## **Cryomodule Performance including Degradation: Measurements of the cavities for the 2nd HIE-ISOLDE cryomodule**

**Presenter:** MIYAZAKI, Akira (CERN)



Contribution ID: 87

Type: **not specified**

## **Cryomodule Performance including Degradation: Cause of performance degradation in Linac operation at SNS**

*Tuesday, 1 December 2015 15:45 (15 minutes)*

**Presenter:** Mr MAMMOSSER, John (ORNL/SNS)

**Session Classification:** WG 3 : Cryomodule - Conveners: E. Harms (FNAL), H. Nakai (KEK), J. Preble (Jlab), S. Berry (CEA) (30 minutes Coffee Break incl.)

Contribution ID: 88

Type: **not specified**

## **Cryomodule Performance including Degradation: Clean room assembly process vs. XFEL cryomodule performances**

*Tuesday, 1 December 2015 16:00 (15 minutes)*

**Presenter:** Mr BERRY, Stéphane (CEA-Saclay)

**Session Classification:** WG 3 : Cryomodule - Conveners: E. Harms (FNAL), H. Nakai (KEK), J. Preble (Jlab), S. Berry (CEA) (30 minutes Coffee Break incl.)

Contribution ID: 89

Type: **not specified**

## **Cryomodule Performance including Degradation: Comparison of Cavity Performance in XFEL Cryomodules**

*Tuesday, 1 December 2015 16:15 (15 minutes)*

**Presenter:** Dr WALKER, Nicholas (DESY)

**Session Classification:** WG 3 : Cryomodule - Conveners: E. Harms (FNAL), H. Nakai (KEK), J. Preble (Jlab), S. Berry (CEA) (30 minutes Coffee Break incl.)

Contribution ID: 90

Type: **not specified**

## **Cryomodule Performance including Degradation: Discussion (all)**

*Tuesday, 1 December 2015 16:30 (45 minutes)*

**Session Classification:** WG 3 : Cryomodule - Conveners: E. Harms (FNAL), H. Nakai (KEK), J. Preble (Jlab), S. Berry (CEA) (30 minutes Coffee Break incl.)

Contribution ID: **91**

Type: **not specified**

## **Materials issues: Helium circuit/vessel material**

**Presenter:** Prof. NAKAI, Hirotaka (KEK)

Contribution ID: 92

Type: **not specified**

## **Materials issues: Titanium welding with pure Argon versus Argon+Helium**

**Presenter:** Mr BERRY, Stéphane (CEA-Saclay)

Contribution ID: 93

Type: **not specified**

## **Materials issues: Helium circuit/vessel material**

*Wednesday, 2 December 2015 09:00 (15 minutes)*

**Presenter:** NAKAI, Hirotaka (KEK)

**Session Classification:** WG 3 - Cryomodule, Conveners: E. Harms (FNAL), H. Nankai (KEK), J. Preble (JLAB), S. Berry (CEA)

Contribution ID: 94

Type: **not specified**

## **Materials issues: Titanium welding with pure Argon versus Argon+Helium**

*Wednesday, 2 December 2015 09:15 (15 minutes)*

**Presenter:** Mr BERRY, Stéphane (CEA-Saclay)

**Session Classification:** WG 3 - Cryomodule, Conveners: E. Harms (FNAL), H. Nankai (KEK), J. Preble (JLAB), S. Berry (CEA)



Contribution ID: 95

Type: **not specified**

## **Materials issues: Incoming inspection of component: cold mass example**

*Wednesday, 2 December 2015 09:30 (15 minutes)*

**Presenter:** TRUBLET, thierry (CEA Saclay)

**Session Classification:** WG 3 - Cryomodule, Conveners: E. Harms (FNAL), H. Nankai (KEK), J. Preble (JLAB), S. Berry (CEA)

Contribution ID: 96

Type: **not specified**

## **Materials issues: TBC**

*Wednesday, 2 December 2015 09:45 (15 minutes)*

**Presenter:** KALUZNY, Joshua (FNAL)

**Session Classification:** WG 3 - Cryomodule, Conveners: E. Harms (FNAL), H. Nankai (KEK), J. Preble (JLAB), S. Berry (CEA)

Contribution ID: 97

Type: **not specified**

## **Materials issues: Discussion (all)**

*Wednesday, 2 December 2015 10:00 (30 minutes)*

**Session Classification:** WG 3 - Cryomodule, Conveners: E. Harms (FNAL), H. Nankai (KEK), J. Preble (JLAB), S. Berry (CEA)

Contribution ID: 98

Type: **not specified**

## **Installation and Rework/Remediation issues: Difficulties during cryomodule installation into the E-XFEL tunnel**

*Wednesday, 2 December 2015 10:30 (15 minutes)*

**Presenter:** Mr JENSCH, Kay (DESY)

**Session Classification:** WG 3 - Cryomodule, Conveners: E. Harms (FNAL), H. Nankai (KEK), J. Preble (JLAB), S. Berry (CEA)

Contribution ID: 99

Type: **not specified**

## **Other topics: Beam vacuum leak repair without schedule impact (XM46)**

*Wednesday, 2 December 2015 10:45 (15 minutes)*

**Presenter:** Mr BERRY, Stéphane (CEA-Saclay)

**Session Classification:** WG 3 - Cryomodule, Conveners: E. Harms (FNAL), H. Nankai (KEK), J. Preble (JLAB), S. Berry (CEA)

Contribution ID: **100**

Type: **not specified**

## Discussion (All)

*Wednesday, 2 December 2015 11:00 (45 minutes)*

**Session Classification:** WG 3 - Cryomodule, Conveners: E. Harms (FNAL), H. Nankai (KEK), J. Preble (JLAB), S. Berry (CEA)

Contribution ID: **101**

Type: **not specified**

## **Summary of WG-3: Discussion (All)**

*Wednesday, 2 December 2015 11:45 (45 minutes)*

**Session Classification:** WG 3 - Cryomodule, Conveners: E. Harms (FNAL), H. Nankai (KEK), J. Preble (JLAB), S. Berry (CEA)

Contribution ID: **102**

Type: **not specified**

## **Cavity Testing: Radiation, Dark current, Processing, Degradation, ...**

*Thursday, 3 December 2015 09:00 (3h 30m)*

Organisation:

A) Instrumentation; Limits; Procedures

B) Results incl. Reprocessing

**Presenters:** RESCHKE, Detlef (DESY); ZHAI, Jiyuan (Institute of High Energy Physics, Chinese Academy of Sciences); MCINTOSH, Peter (STFC Daresbury Laboratory); BOUSSON, Sebastien (IPN Orsay)

**Session Classification:** WG 2 - Cavity, Conveners: D. Reschke (DESY), P. McIntosh (STFC), S. Bousson (IPN-Orsay), J. Zhai (IHEP)



Contribution ID: **103**

Type: **not specified**

## **Lab Contributions about A) Instrumentation; Limits; Procedures incl. Discussion**

**Presenters:** RESCHKE, Detlef (DESY); FURUTA, Fumio (Cornell University); MAMMOSSER, John (ORNL/SNS); UMEMORI, Kensei (KEK); WALKER, Nicholas (DESY); GENG, Rong-Li (Jefferson Lab); YAMAMOTO, Yasuchika (KEK)

Contribution ID: **104**

Type: **not specified**

## **Coffee Break**

Contribution ID: **105**

Type: **not specified**

## **Lab Contributions about B) Results + Reprocessing incl. Discussion**

**Presenters:** RESCHKE, Detlef (DESY); ZHAI, Jiyuan (Institute of High Energy Physics, Chinese Academy of Sciences); MCINTOSH, Peter (STFC Daresbury Laboratory); BOUSSON, Sebastien (IPN Orsay)

Contribution ID: **106**

Type: **not specified**

## **Introduction and Update from last Collaboration Meeting**

*Tuesday, 1 December 2015 08:30 (15 minutes)*

**Session Classification:** Introduction and Update from last Collaboration Meeting - Hasan Padamsee (Cornell)

Contribution ID: **107**

Type: **not specified**

## **Plenary Talk 1: General Overview on Challenges in low-beta Cavities**

Contribution ID: **108**

Type: **not specified**

## **Plenary Talk2: Technical Challenge of Cryomodule Design in LCLS-II - J. Kaluzny**

*Tuesday, 1 December 2015 09:30 (30 minutes)*

**Session Classification:** Plenary Talk2: Technical Challenge of Cryomodule Design in LCLS-II - J. Kaluzny (FNAL)

Contribution ID: **109**

Type: **not specified**

## **Plenary Talk 4: Lesson Learned from Cryomodule Assembly with a Focus toward Future Projects**

*Tuesday, 1 December 2015 11:00 (30 minutes)*

**Session Classification:** Plenary Talk 4: Lesson Learned from Cryomodule Assembly with a Focus toward Future Projects - C. Madec (CEA)

Contribution ID: 110

Type: **not specified**

## **Plenary Talk 5: “Cryogenic Operation, Failures and Recovery for Future 2K Accelerators**

*Tuesday, 1 December 2015 11:30 (30 minutes)*

**Session Classification:** Plenary Talk 5: “Cryogenic Operation, Failures and Recovery for Future 2K Accelerators - S. Putselyk (DESY)



Contribution ID: 111

Type: **not specified**

## **Plenary Talk 6: Cryomodule/HTS Testing of High Q Cavities**

*Tuesday, 1 December 2015 12:00 (30 minutes)*

**Session Classification:** Plenary Talk 6: Cryomodule/HTS Testing of High Q Cavities - M. Liepe (Cornell)

Contribution ID: 112

Type: **not specified**

## Summary Talk, WG 3

*Friday, 4 December 2015 11:00 (20 minutes)*

**Presenter:** HARMS, Elvin (FNAL)

**Session Classification:** Summary Talk, WG 3 - WG 3 Conveners

Contribution ID: 113

Type: **not specified**

## **Plenary Talk 8: Invited Talk on Clean Room/Clean Infrastructure Design and Operation**

*Friday, 4 December 2015 09:30 (30 minutes)*

**Session Classification:** Plenary Talk 8: Invited Talk on Clean Room/Clean Infrastructure Design and Operation - J. Paul (HDR Engineering)

Contribution ID: 114

Type: **not specified**

## **Plenary Talk 1: General Overview on Challenges in low-beta Cavities - G. Olry (IPNO)**

*Tuesday, 1 December 2015 09:00 (30 minutes)*

**Session Classification:** Plenary Talk 1: General Overview on Challenges in low-beta Cavities - G. Olry (IPNO)