

**3rd FCC-ee MDI workshop**

# **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **Introduction with workshop goals**

*Monday, 9 September 2019 14:00 (45 minutes)*

**Presenter:** BOSCOLO, Manuela (INFN e Laboratori Nazionali di Frascati (IT))

Contribution ID: 2

Type: **not specified**

## **FCC-ee Overview**

*Tuesday, 10 September 2019 09:00 (1 hour)*

**Presenter:** ZIMMERMANN, Frank (CERN)

Contribution ID: 3

Type: **not specified**

## Issues of 4 IP collision

*Monday, 9 September 2019 14:45 (1 hour)*

**Presenter:** Dr OIDE, Katsunobu (High Energy Accelerator Research Organization (JP))

Contribution ID: 4

Type: **not specified**

## Discussion

*Monday, 9 September 2019 15:45 (1h 50m)*

Contribution ID: 5

Type: **not specified**

## **MDI status**

*Tuesday, 10 September 2019 10:00 (45 minutes)*

**Presenter:** BOSCOLO, Manuela (INFN e Laboratori Nazionali di Frascati (IT))

Contribution ID: 6

Type: **not specified**

## Luminometer

*Wednesday, 11 September 2019 11:30 (30 minutes)*

**Presenter:** DAM, Mogens (University of Copenhagen (DK))

Contribution ID: 7

Type: **not specified**

## **Discussion with detector experts**



Contribution ID: **8**

Type: **not specified**

## **Heat load and HOM analysis in the MDI area**

*Wednesday, 11 September 2019 09:30 (1 hour)*

**Presenter:** Dr NOVOKHATSKI, Alexander (SLAC National Accelerator Laboratory)

Contribution ID: 9

Type: **not specified**

## Discussion

Contribution ID: **10**

Type: **not specified**

## **Preliminary result of beam loss due to radiative Bhabha using BBBrem+SAD**

*Thursday, 12 September 2019 09:30 (1 hour)*

**Presenter:** Dr OIDE, Katsunobu (High Energy Accelerator Research Organization (JP))

Contribution ID: **11**

Type: **not specified**

## **Alignment in the MDI area**

*Friday, 13 September 2019 09:30 (1 hour)*

**Presenter:** JONES, Mark (CERN)

Contribution ID: 12

Type: **not specified**

## Discussion

*Thursday, 12 September 2019 12:00 (1 hour)*

Contribution ID: 13

Type: **not specified**

## **Beam dynamics: vertical emittance blow-up, 3D magnetic field map**

*Thursday, 12 September 2019 11:00 (30 minutes)*

**Presenter:** SINYATKIN, Sergey (Budker Institute of Nuclear Physics (RU))

Contribution ID: 14

Type: **not specified**

## **Polarization requests on beam controls etc...**

*Thursday, 12 September 2019 10:30 (30 minutes)*

**Presenter:** BLONDEL, Alain (Universite de Geneve (CH))

Contribution ID: 15

Type: **not specified**

## Discussion

*Friday, 13 September 2019 11:45 (45 minutes)*



Contribution ID: 16

Type: **not specified**

## **Recent developments in direct wind IR magnet production at BNL**

*Tuesday, 17 September 2019 09:30 (1 hour)*

**Presenter:** PARKER, Brett (Brookhaven National Laboratory (US))

Contribution ID: 17

Type: **not specified**

## **CCT design for IR final focus quadrupole**

*Tuesday, 17 September 2019 10:45 (30 minutes)*

**Presenter:** KORATZINOS, m (Massachusetts Inst. of Technology (US))

Contribution ID: **18**

Type: **not specified**

## **Synchrotron Radiation backgrounds with smaller central beam pipe**

*Tuesday, 17 September 2019 11:15 (1 hour)*

**Presenter:** SULLIVAN, Michael Kenneth (SLAC National Accelerator Laboratory (US))

Contribution ID: 19

Type: **not specified**

## **SR evaluation using SYNRAD+**

**Presenter:** KERSEVAN, Roberto (CERN)

Contribution ID: 20

Type: **not specified**

## **SR collimation in the IR using MDISim**

*Tuesday, 17 September 2019 12:15 (30 minutes)*

**Presenter:** LUCKHOF, Marian (Hamburg University (DE))

Contribution ID: 21

Type: **not specified**

## **Follow-up of the mechanical design & alignment & vibration control related issues**

*Tuesday, 17 September 2019 15:30 (1 hour)*

Contribution ID: 22

Type: **not specified**

## **Beam backgrounds and IR related losses**

*Wednesday, 18 September 2019 09:30 (30 minutes)*

**Presenter:** BURKHARDT, Helmut (CERN)

Contribution ID: 23

Type: **not specified**

## **Integration of MDI software tools with FCCSW**

*Wednesday, 18 September 2019 10:30 (30 minutes)*

**Presenter:** GANIS, Gerardo (CERN)



Contribution ID: 24

Type: **not specified**

## Discussion on software tools

*Wednesday, 18 September 2019 11:00 (1h 30m)*

Contribution ID: 25

Type: **not specified**

## **Cryostat in the MDI area**

**Presenter:** PARMA, Vittorio (CERN)

Contribution ID: 26

Type: **not specified**

## Workshop Summary

*Friday, 20 September 2019 10:30 (1 hour)*

**Presenters:** ZIMMERMANN, Frank (CERN); BOSCOLO, Manuela (INFN e Laboratori Nazionali di Frascati (IT)); BENEDIKT, Michael (CERN)

Contribution ID: 27

Type: **not specified**

## **Discussion with detector experts**

Contribution ID: 28

Type: **not specified**

## **Fast luminosity monitor for machine tuning: experie**

Contribution ID: 29

Type: **not specified**

## **Fast luminosity monitor for machine tuning, experience at SuperKEKB**

**Presenter:** BAMBADE, Philip (Centre National de la Recherche Scientifique (FR))

Contribution ID: **30**

Type: **not specified**

## **The CLD detector and MDI elements**

*Tuesday, 10 September 2019 10:45 (30 minutes)*

**Presenter:** ELSENER, Konrad (CERN)

Contribution ID: **31**

Type: **not specified**

## **Review of vibration and stabilisation studies at LAPP laboratory**

*Friday, 13 September 2019 10:30 (30 minutes)*

**Presenter:** BRUNETTI, Laurent (LAPP IN2P3 CNRS Université de Savoie)



Contribution ID: 32

Type: **not specified**

## **Multi-turn particle tracking for FCC-ee background studies: first results for Coulomb scattering beam losses**

*Wednesday, 18 September 2019 10:00 (30 minutes)*

**Presenter:** CIARMA, Andrea

Contribution ID: 33

Type: **not specified**

## **MDI mechanical design, integration and assembly at DAFNE/KLOE with the crab-waist configuration**

*Wednesday, 11 September 2019 10:30 (1 hour)*

**Presenter:** PELLEGRINO, Luigi (INFN - National Institute for Nuclear Physics)

Contribution ID: **34**

Type: **not specified**

## Discussion

Contribution ID: 35

Type: **not specified**

## **SuperKEKB superconducting magnet quench (remote)**

*Tuesday, 17 September 2019 09:00 (30 minutes)*

**Presenter:** OHUCHI, Norihito (KEK)

Contribution ID: **36**

Type: **not specified**

## **MDI aspects for the IDEA detector**

*Tuesday, 10 September 2019 11:15 (30 minutes)*

**Presenter:** Prof. ANDREAZZA, Attilio (Università degli Studi e INFN Milano (IT))

Contribution ID: 37

Type: **not specified**

## Summary and Comments on Machine Detector interface

*Wednesday, 11 September 2019 12:00 (30 minutes)*

**Presenter:** Dr BOGOMYAGKOV, Anton (Budker Institute of Nuclear Physics (RU))

Contribution ID: **38**

Type: **not specified**

## **Emittance tuning for FCC-ee**

*Friday, 13 September 2019 11:00 (45 minutes)*

**Presenter:** CHARLES, Tessa (University of Melbourne (AU))

Contribution ID: **39**

Type: **not specified**

## **Summary from first days discussion (9-11 September)**

*Thursday, 12 September 2019 11:30 (30 minutes)*

**Presenters:** PELLEGRINO, Luigi (INFN - National Institute for Nuclear Physics); BOSCOLO, Manuela (INFN e Laboratori Nazionali di Frascati (IT))



Contribution ID: 40

Type: **not specified**

## Discussion (SR, IR magnets,..)

Contribution ID: 41

Type: **not specified**

## **SuperKEKB IR pressure analysis**

*Thursday, 19 September 2019 09:30 (30 minutes)*

**Presenter:** KERSEVAN, Roberto (CERN)

Contribution ID: 42

Type: **not specified**

## **Considerations from PEP-II experience on the mechanical design**

*Thursday, 19 September 2019 10:00 (30 minutes)*

**Presenter:** SULLIVAN, Michael Kenneth (SLAC National Accelerator Laboratory (US))

Contribution ID: 43

Type: **not specified**

## Progress with IR SR study

*Friday, 20 September 2019 09:30 (30 minutes)*

**Presenter:** SULLIVAN, Michael Kenneth (SLAC National Accelerator Laboratory (US))