

Optics Tuning and Corrections for Future colliders workshop



Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Monday, June 26, 2023 9:05 AM (10 minutes)

Presenter: BENEDIKT, Michael (CERN)

Contribution ID: 2

Type: **not specified**

FCC-ee lattice

Monday, June 26, 2023 9:20 AM (25 minutes)

Presenter: Dr OIDE, Katsunobu (Universite de Geneve (CH))

Contribution ID: 3

Type: **not specified**

FCC-ee new optics proposal

Monday, June 26, 2023 9:50 AM (25 minutes)

Presenter: Dr RAIMONDI, Pantaleo (SLAC National Accelerator Laboratory (US))

Contribution ID: 4

Type: **not specified**

FCC-ee optics tuning simulations

Monday, June 26, 2023 11:10 AM (20 minutes)

Presenter: LIUZZO, Simone (ESRF)

Contribution ID: 5

Type: **not specified**

Optics tuning challenges in the SuperKEKB

Monday, June 26, 2023 10:46 AM (20 minutes)

Presenter: OHNISHI, Yuki Yoshi (KEK)

Contribution ID: 6

Type: **not specified**

FCC-ee field quality tolerances

Monday, June 26, 2023 11:35 AM (20 minutes)

Presenter: AHMADI, Esmaeil (IPM- ILSF)

Contribution ID: 7

Type: **not specified**

Beam-based alignment in the FCC-ee

Monday, June 26, 2023 12:00 PM (20 minutes)

Presenter: KEINTZEL, Jacqueline (CERN)

Contribution ID: 8

Type: **not specified**

PBBA alignment at SPEAR and LCLS

Monday, June 26, 2023 1:46 PM (20 minutes)

Presenter: HUANG, Xiaobiao (SLAC National Accelerator Laboratory)

Contribution ID: 9

Type: **not specified**

Status of optics tuning simulations in the EIC

Monday, June 26, 2023 2:10 PM (20 minutes)

Presenter: MARX, Daniel

Contribution ID: **10**

Type: **not specified**

FCC-ee booster optics tuning

Monday, June 26, 2023 3:00 PM (20 minutes)

Presenter: DALENA, Barbara (CEA-Irfu & Université Paris-Saclay (FR))

Contribution ID: 11

Type: **not specified**

Towards fully analytical response matrices

Wednesday, June 28, 2023 2:10 PM (20 minutes)

Presenter: FRANCHI, Andrea

Contribution ID: 12

Type: **not specified**

High bandwidth and high precision orbit feedback design for PETRA IV

Tuesday, June 27, 2023 9:25 AM (20 minutes)

Presenter: MIRZA, Sajjad Hussain

Contribution ID: 13

Type: **not specified**

FCC-ee beam instrumentation

Wednesday, June 28, 2023 9:25 AM (20 minutes)

Presenter: LEFEVRE, Thibaut (CERN)

Contribution ID: 14

Type: **not specified**

Beam-based optimization at PAL-XFEL

Wednesday, June 28, 2023 11:30 AM (20 minutes)

Presenter: SHIM, Chi Hyun

Contribution ID: 15

Type: **not specified**

Alignment plans for the FCC-ee

Wednesday, June 28, 2023 9:01 AM (20 minutes)

Presenter: MAINAUD DURAND, Helene (CERN)

Contribution ID: 16

Type: **not specified**

Status of optics tuning simulations in the CEPC (remote)

Tuesday, June 27, 2023 9:50 AM (20 minutes)

Presenter: WANG, Yiwei

Contribution ID: 17

Type: **not specified**

Beam stability in modern synchrotron light sources

Wednesday, June 28, 2023 10:15 AM (20 minutes)

Presenter: Dr WANG, Guimei (BNL)

Contribution ID: **18**

Type: **not specified**

Mitigation of synchro-betatron resonances for the FCC-ee booster

Monday, June 26, 2023 3:51 PM (20 minutes)

Presenter: MASHAL, Ahmad

Contribution ID: 19

Type: **not specified**

Lattice correction studies and commissioning simulations for ALS-U and PETRA IV (remote)

Tuesday, June 27, 2023 9:01 AM (20 minutes)

Presenter: HELLERT, Thorsten (Lawrence Berkeley National Laboratory)

Contribution ID: 20

Type: **not specified**

Optics optimization in the EIC interaction region (remote)

Monday, June 26, 2023 4:15 PM (20 minutes)

Presenter: XU, Derong

Contribution ID: 21

Type: **not specified**

Optics correction strategy for KOREA-4GSR

Wednesday, June 28, 2023 11:05 AM (20 minutes)

Presenter: JANG, Gyeongsu

Contribution ID: 22

Type: **not specified**

Local Coupling Correction in the LHC IRs (remote)

Tuesday, June 27, 2023 11:30 AM (20 minutes)

Presenters: SOUBELET, Felix; PERSSON, Tobias Hakan Bjorn (CERN)

Contribution ID: 23

Type: **not specified**

Non-linear correction in the LHC IR

Tuesday, June 27, 2023 11:55 AM (20 minutes)

Presenter: MACLEAN, Ewen Hamish (CERN)

Contribution ID: 24

Type: **not specified**

LOCOM2, an idela method for global optics corrections

Tuesday, June 27, 2023 1:45 PM (20 minutes)

Presenter: HUANG, Xiaobiao (SLAC National Accelerator Laboratory)

Contribution ID: 25

Type: **not specified**

Online tuning of storage ring non-linear dynamics at SIRIUS and fast ORM measurement

Tuesday, June 27, 2023 2:10 PM (20 minutes)

Presenter: MELO SANTOS VELLOSO, Matheus

Contribution ID: 26

Type: **not specified**

Automated commissioning for the APS-U

Tuesday, June 27, 2023 2:35 PM (20 minutes)

Presenter: SAJAEV, Vadim (ANL)

Contribution ID: 27

Type: **not specified**

Polarization preservation issues at the CEPC

Tuesday, June 27, 2023 4:40 PM (20 minutes)

Presenter: DUAN, zhe

Contribution ID: 28

Type: **not specified**

Polarization and optics tuning needs

Tuesday, June 27, 2023 3:50 PM (20 minutes)

Presenter: WU, Yi (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Contribution ID: 29

Type: **not specified**

Polarization in electron storage rings (remote)

Tuesday, June 27, 2023 3:25 PM (20 minutes)

Presenter: GIANFELICE, Eliana

Contribution ID: **30**

Type: **not specified**

Preservation of electron polarization ramping in the EIC rapid cycling synchrotron (remote)

Tuesday, June 27, 2023 4:15 PM (20 minutes)

Presenter: RANJBAR, Vahid

Contribution ID: **31**

Type: **not specified**

ML application at the Argonne APS

Monday, June 26, 2023 4:40 PM (20 minutes)

Presenter: KUKLEV, Nikita (Argonne National Laboratory)

Contribution ID: 32

Type: **not specified**

Orbit-response based optics correction studies for FCC-ee (remote)

Tuesday, June 27, 2023 10:40 AM (20 minutes)

Presenter: MUSA, Elaf (DESY)

Contribution ID: 33

Type: **not specified**

IP tuning

Tuesday, June 27, 2023 11:05 AM (20 minutes)

Presenter: VAN RIESEN-HAUPT, Leon (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Contribution ID: 34

Type: **not specified**

Action and phase jump analysis for local error corrections

Wednesday, June 28, 2023 1:45 PM (20 minutes)

Presenter: CARDONA, Javier Fernando (Universidad Nacional de Colombia (CO))

Contribution ID: 35

Type: **not specified**

Beam optics tuning with 6dsim

Wednesday, June 28, 2023 11:55 AM (20 minutes)

Presenter: ROMANOV, Aleksandr

Contribution ID: 36

Type: **not specified**

Injection tuning of SuperKEKB towards its luminosity goal

Monday, June 26, 2023 2:35 PM (20 minutes)

Presenter: IIDA, Naoko

Contribution ID: 37

Type: **not specified**

Closing remarks

Wednesday, June 28, 2023 2:35 PM (10 minutes)

Presenter: KEINTZEL, Jacqueline (CERN)

Contribution ID: **38**

Type: **not specified**

Field corrections for FCC-ee magnets

Wednesday, June 28, 2023 9:50 AM (20 minutes)

Presenters: JAERMYR ERIKSSON, Carl (CERN); Dr SAEIDI, Farhad (IPM, Tehran, Iran); BAUCHE, Jeremie (CERN)

Contribution ID: 39

Type: **not specified**

Chair

Monday, June 26, 2023 9:00 AM (1 minute)

Presenter: TOMAS GARCIA, Rogelio (CERN)

Contribution ID: 40

Type: **not specified**

Chair

Tuesday, June 27, 2023 9:00 AM (1 minute)

Presenter: HUANG, Xiaobiao (SLAC National Accelerator Laboratory)

Contribution ID: 41

Type: **not specified**

Chair

Tuesday, June 27, 2023 10:39 AM (1 minute)

Presenter: AGAPOV, Ilya (Deutsches Elektronen-Synchrotron (DE))

Contribution ID: 42

Type: **not specified**

Chair

Tuesday, June 27, 2023 1:44 PM (1 minute)

Presenter: PAPAPHILIPPOU, Yannis (CERN)

Contribution ID: 43

Type: **not specified**

Chair

Tuesday, June 27, 2023 3:24 PM (1 minute)

Presenter: KEINTZEL, Jacqueline (CERN)

Contribution ID: 44

Type: **not specified**

Chair

Wednesday, June 28, 2023 9:00 AM (1 minute)

Presenter: Dr PIELONI, Tatiana (EPFL)

Contribution ID: 45

Type: **not specified**

Chair

Wednesday, June 28, 2023 11:04 AM (1 minute)

Presenter: ZIMMERMANN, Frank (CERN)

Contribution ID: 46

Type: **not specified**

Chair

Wednesday, June 28, 2023 1:40 PM (1 minute)

Presenter: OHNISHI, Yuki Yoshi (KEK)

Contribution ID: 47

Type: **not specified**

Chair

Monday, June 26, 2023 10:45 AM (1 minute)

Presenter: TOMAS GARCIA, Rogelio (CERN)

Contribution ID: 48

Type: **not specified**

Chair

Monday, June 26, 2023 1:45 PM (1 minute)

Presenter: KEINTZEL, Jacqueline (CERN)

Contribution ID: 49

Type: **not specified**

Chair

Monday, June 26, 2023 3:50 PM (1 minute)

Presenter: ONISHI, Yukisoshi (KEK)