

Session Program

29 November 2021 to 10 December 2021



FCCIS WP2 Workshop 2021

BE Amphitheatre

CERN
See schedule for rooms

Monday 29 November

08:45

BE Amphitheatre: Overview, Parameters & Optics

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Conveners:**
Angeles Faus-Golfe, Frank Zimmermann, Michael Hofer

08:45–09:00 **Coffee break**

09:00–10:00 **Welcome, Overview, and FCC-ee Parameter Choices**

Speaker
Frank Zimmermann

Subcontributions

Welcome

Speaker
Frank Zimmermann

Parameter optimisation at different working points (15' + 15')

Speaker
Dmitry Shatilov

10:00–10:15 **Coffee break**

10:15–11:15 **Optics and correction**

Subcontributions

Status of the FCC-ee optics and next steps (15' + 15')

Speakers
Katsunobu Oide, Katsunobu Oide

Optics correction (15' + 15')

Speaker
Tessa Charles

12:00

Tuesday 30 November

08:45

BE Amphitheatre: Codes

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Conveners:** Giovanni Iadarola, Tatiana Pieloni

08:45–09:00 **Coffee break**

09:00–10:00 **Code development Part I**

Subcontributions

Optics repository (10' + 10')

Speaker

Ghislain Roy

MAD-X/PTC development and plans (10' + 10')

Speaker

Riccardo De Maria

Code comparison and lattice models (10' + 10')

Speaker

Leon Van Riesen-Haupt

10:00–10:15 **Coffee break**

10:15–11:30 **Code development Part II**

Subcontributions

FCC-ee software framework (15' + 15')

Speaker

Felix Simon Carlier

XSuite (15' + 15')

Speaker

Giovanni Iadarola

12:00

Wednesday 1 December

08:40

BE Amphitheatre: Collimation, beam-beam

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Convener:** Xavier Buffat

08:45–09:00 **Coffee break**

09:00–10:00 **Collimation**

Subcontributions

Layout and optics for a collimation insertion in FCC-ee (15'+ 15')

Speaker

Michael Hofer

Status of collimation simulations for the FCC-ee (15'+ 15')

Speaker

Andrey Abramov

10:00–10:15 **Coffee break**

10:15–11:30 **Beam-beam**

Subcontributions

Code development (15'+ 15')

Speaker

Peter Kicsiny

Quasi-strong-strong beam-beam simulations for FCC-ee (15'+ 15')

Speaker

Dmitry Shatilov

MAD-NG developments for FCC-ee

Speaker

Laurent Deniau

11:45

Monday 6 December

08:45

BE Amphitheatre: Optics Correction (part 2), and Beam Measurements

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Convener:** Rogelio Tomas Garcia

08:45–09:00 **Coffee break**

09:00–10:00 **Optics Corrections at Large Light Sources**

Subcontributions

Beam stabilisation and optics correction for PETRA IV (15'+ 15')

Speaker

Ilya Agapov

Optics corrections & experience at ESRF-EBS (15'+ 15')

Speaker

Simone Liuzzo

10:00–10:15 **Coffee break**

10:15–11:15 **Optics Corrections at Operating Colliders**

Subcontributions

Optics Measurements at SuperKEKB (15'+ 15')

Speaker

Jacqueline Keintzel

LHC Optics Corrections (15'+ 15')

Speaker

Tobias Hakan Bjorn Persson

12:30

Wednesday 8 December

08:45

BE Amphitheatre: Collective effects

Session | Location: CERN, 6/2-024 - BE Auditorium Meyrin | Conveners:
Xavier Buffat, Mauro Migliorati, Lotta Mether

08:45–09:00 Coffee break

09:00–10:00 Impedance models and single-beam instabilities 1

Subcontributions

Overview

Speakers

Mauro Migliorati, Mauro Migliorati

Impedance model & TMCI threshold (15'+ 15')

Speaker

Emanuela Carideo

10:00–10:30 Coffee break

10:30–11:30 Impedance models and single-beam instabilities 2

Subcontributions

Impedance of bellows and flanges (15'+ 15')

Speaker

Chiara Antuono

Modelling of the FCC resistive wall impedance (15'+ 15')

Speaker

Dr Ali Rajabi

14:30–15:00 Coffee Break

15:00–16:00 Electron cloud

Subcontributions

Electron cloud in the arcs (15'+ 15')

Speaker

Fatih Yaman

Electron cloud in the arc quadrupoles (15'+ 15')

Speakers

Karla Beatriz Cantun Avila, Damian Ismael Ayim Canche

16:50

Thursday 9 December

08:45

BE Amphitheatre: Vacuum, Radiation Environment, Polarisation

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Conveners:** Tor Raubenheimer, Tor Raubenheimer

08:45–09:00 **Coffee break**

09:00–10:00 **Vacuum and Radiation environment**

Subcontributions

FCC-ee vacuum system & pressure forecast (15'+ 15')

Speaker

Roberto Kersevan

Energy deposition & radiation levels in the arcs (15'+ 15')

Speaker

Barbara Humann

10:00–10:15 **Coffee break**

10:15–11:15 **Polarisation and precision energy calibration**

Subcontributions

Overview and plans (15'+ 15')

Speaker

Alain Blondel

11:15

Friday 10 December

08:45

BE Amphitheatre: Closing

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Convener:** Ilya Agapov

08:45–09:00

Coffee break

09:00–11:00

Summary and close out**Speakers**

Frank Zimmermann, Ilya Agapov, Tor Raubenheimer

11:00