

Session Program

28 June 2021 to 2 July 2021



FCC Week 2021

FCC-ee accelerators

Tuesday 29 June

11:00

FCC-ee accelerators: FCC-ee parameters, layout, overview, with booster

Session | Location: | Convener: Evgeny Levichev

11:00-11:20 **Parameters - update and plan**

Speaker
Dmitry Shatilov

11:20-11:40 **Optics and layout - update and plan**

Speaker
Dr Katsunobu Oide

11:40-12:00 **Experience at SuperKEKB**

Speaker
Jacqueline Keintzel

12:00-12:20 **Top up injection - Status and next steps**

Speaker
Masamitsu Aiba

12:30

16:00

FCC-ee accelerators: FCC-ee optics, correction, beam stay-clear, dynamic aperture, collimation

Session | Location: | Convener: Eliana Gianfelice-Wendt

16:00-16:18 **Status and plans for optics corrections and emittance performance**

Speaker
Tessa Charles

16:18-16:36

Robust Modelling of FCC-ee with Analytical Equations and Simulations

Speaker
Leon Van Riesen-Haupt

16:36-16:54

First steps towards a collaborative software framework for the FCC-ee simulations: A multicode comparison

Speaker
Dr Felix Simon Carlier

16:54-17:12 **FCC-ee Aperture and Collimation**

Speaker
Andrey Abramov

17:12-17:30 **Layout and optics for a collimation insertion in FCC-ee**

Speaker
Michael Hofer

17:30

Wednesday 30 June

11:00

FCC-ee accelerators: FCC-ee electron cloud & vacuum

Session | Location: | Convener: kyo shibata

11:00-11:18 **Arc vacuum system and synchrotron radiation**

Speaker

Roberto Kersevan

11:18-11:36 **Synchrotron Radiation studies for the FCC-ee arc with FLUKA**

Speaker

Barbara Humann

11:36-11:54 **Key Vacuum Surface Parameters for FCC-ee Operation**

Speaker

Roberto Cimino

11:54-12:12 **Electron Cloud Simulations for the FCC-ee**

Speaker

Fatih Yaman

12:12-12:30 **Electron cloud simulations for arc quadrupoles**

Speaker

Damian Ismael Ayim Canche

12:30

16:00

FCC-ee accelerators: FCC-ee injector complex

Session | Location: | Convener: Tor Raubenheimer

16:00-16:18 **Overview and layout**

Speaker

Paolo Craievich

16:18-16:36

Progress in the design of the linacs and electron sources for the FCC-ee injector complex

Speaker

Alexej Grudiev

16:36-16:54 **FCC-ee positron source**

Speaker

Dr Iryna Chaikovska

16:54-17:12 **Filling schemes through injector chain**

Speaker

Salim Ogur

17:12-17:30 **Status of the high-energy booster**

17:30

Speaker

Dr Antoine Chance

Thursday 1 July

09:00

FCC-ee accelerators: FCC-ee IR and MDI

Session | Location: | Convener: Wolfgang Hillert

09:00–09:18 **Overview, plan and open questions**

Speaker

Manuela Boscolo

09:18–09:36 **Beam-beam background and beamstrahlung studies at FCC-ee**

Speaker

Andrea Ciarna

09:36–09:54 **News on the Q1 magnet prototype'**

Speaker

m Koratzinos

09:54–10:12 **Mechanical design of the MDI**

Speaker

Francesco Fransesini

10:12–10:30 **Machine Detector Interface Alignment System Update**

Speaker

Leonard Watrelot

10:30

11:00

FCC-ee accelerators: FCC-ee impedance & collective effects

Session | Location: | Convener: Ursula Helga Van Rienen

11:00–11:18

FCC-ee collective effects: introduction and overview (including Full Energy Booster)

Speaker

Mauro Migliorati

11:18–11:36 **Collective effects for single-beam in FCC-ee and Impedance database**

Speaker

Emanuela Carideo

11:36–11:54 **Status of bellows and flanges impedance studies**

Speaker

Chiara Antuono

11:54–12:12 **Combined effect of impedance and beam-beam**

Speaker

Yuan Zhang

12:12–12:30 **SuperKEKB collimation system**

12:30	<p>Speaker Takuya Ishibashi</p>
14:00	<p>FCC-ee accelerators: FCC-ee other applications & upgrades Session Location: Convener: Mike Seidel</p>
	<p>14:00-14:18 FCC-ee booster as ultimate storage ring photon source</p> <p>Speaker Sara Casalbuoni</p>
	<p>14:18-14:36 Science case for high-energy photons</p> <p>Speaker Anders Madsen</p>
	<p>14:36-14:54</p> <p>Prospects of positron and positronium physics with a highly intense low energy positron source</p> <p>Speakers Benjamin Rienacker, Ruggero Caravita</p>
	<p>14:54-15:12 ERL-based e+e- collider</p> <p>Speaker Vladimir Litvinenko</p>
15:30	<p>15:12-15:30 FCC-ee upgrade to muon collider</p> <p>Speaker Daniel Schulte</p>