

# FCC-EE MDI MEETING #44

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### **General Informations**

- Minutes previous meeting 06/Feb/`23 <u>link</u>
- Next meeting 13 March

### **Agenda Today:**



## Next Steps on Backgrounds studies

#### Beam losses

- Study other beam loss scenarios
- Obtain input for the equipment loss tolerances superconducting magnets, collimators, other
  - Energy deposition studies required for magnets, collimators, and masks
  - Detailed evaluation of detector backgrounds required shielding, muon backgrounds
- Study all beam modes

### Synchrotron Radiation

- Iteration on the positions and apertures of the synchrotron radiation collimators within the collimation hierarchy
- Study the SR collimation performance with the X-Y tail distribution modeling (charge and width)
- Continue the study of the synchrotron radiation background due to off-axis top-up injection

### Backgrounds in CLD (& IDEA?) detector

- Tracking the primary beam particles and the photons hitting the pipe performed in Key4HEP
- Photons at the tip of the SR mask upstream the IP
- Radiation studies in the experimental area and in the BS dump area will start with FLUKA in March