

Session Program

2-5 Sept 2024



ICFA mini workshop: Beam-Beam Effects in Circular Colliders BB24

Collective Effects

EPFL, ELA 1

Tuesday 3 September

11:15

Collective Effects

Session | Location: EPFL, ELA 1 | Convener: Dr Tatiana Pieloni

11:15-11:45 **Beam-beam and interplays in hh colliders**

Speaker
Xavier Buffat

11:45-12:05
Beam stability studies with beam-beam and wakefields based on multiparticle tracking simulations and the circulant matrix model

Speaker
Roxana Soos

12:05-12:25
INTRABUNCH MOTION IN THE PRESENCE OF BOTH IMPEDANCE AND BEAM-BEAM

Speaker
Elias Metral

12:40

12:25-12:40 **Discussion**

Wednesday 4 September

09:00

Collective Effects

Session | **Location:** EPFL, ELA 1 | **Convener:** Yuan Zhang

09:00–09:30 **Space charge effects in beam-beam mode coupling instability**

Speaker

kazuhito ohmi

09:30–09:50 **Coherent beam-beam effects in a muon collider**

Speaker

David Amorim

09:50–10:10 **Beam-beam effect study of crab cavity in EicC**

Speaker

Mingxuan Chang

10:10–10:30 **Beam-beam dynamics with strong hourglass effect**

Speaker

Dr Lei Wang

10:30–10:45 **Discussion**

10:45

11:15

Collective Effects

Session | **Location:** EPFL, ELA 1 | **Convener:** Yuan Zhang

11:15–11:35 **Interplay between beam-beam interaction and noise in EIC**

Speaker

Derong Xu

11:35–11:55

Progress in gear-changing research and prospects for future experiments

Speaker

Edith Nissen

11:55–12:15

Beam-Beam simulation models and numerical noises for flat beam collisions in the Electron-Ion Collider

Speaker

Yun Luo

12:15–12:30 **Discussion**

12:30