



FCC-EIC JOINT WORKSHOP 17-21 OCTOBER 2022

OUTLOOK

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First week : FCC-EIC Joint Workshop

- High-level quality of presentations, interesting and new results.
- Lively and productive discussion during all the sessions for the whole week.
- Good participation, active attendance, many interesting questions.
- Useful lessons from SuperKEKB, ESRF, past colliders -PEP-II, DAFNE
- EIC and FCC-ee are very different, but lots of interest on both sides.

- 1st FCC-EIC joint workshop on Polarization 19-23 Sept. 2022 [link](#)
- 2nd FCC-EIC joint workshop on MDI, collimation, beam-beam, tuning 17-21 Oct. 2022 [link](#)

FCC-EIC common challenges, identified areas for potential collaboration:

- MDI design, Interaction Region design, IR magnet design, Backgrounds modeling, SR and IR beam losses
 - Collimation simulation tool and collimator design
 - Beam-beam, lifetime and dynamic aperture modeling
 - Non-linear optics optimization
 - Beam Instrumentation
 - Impedance
 - Optics tuning
 - Simulation and modeling tools
- 3rd FCC-EIC meeting proposed in-person, early next year, in the US 2023
on SRF & on progress and follow-up on selected topics discussed this year

Follow up action items

We are identifying contact persons from FCC/EIC for selected topics on mutual interesting areas.

The contact persons are expected to :

- Coordinate follow-up discussions on the identified topics of interest for EIC-FCC
- Organize regular meetings between FCC-EIC including relevant experts
- Inform on progress advancement to the FCC/EIC leadership