



Contribution ID: 1

Type: (a) Talk abstract only

Optimization of the FCC-ee IR beam pipe elements for minimum of the wake field energy loss responsible for the heat load.

Wednesday, June 12, 2024 2:05 PM (15 minutes)

We present the results of the wake field analyses for different geometries of the IR beam pipe elements like bellows, BPMs, SR mask including beam pipe shape. We found a possibility how to decrease and capture wake fields generated by colliding beams in the interaction region. This optimization study will be useful for the FCC-ee IR beam pipe design.

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Session Classification: Joint effort PED & accelerators

Track Classification: Physics, Experiments and Detectors: MDI