

Contribution ID: 244

Type: Oral presention (by invitation only)

Review of MAD-X for FCC-ee studies

Thursday, 8 June 2023 14:15 (15 minutes)

The design of the electron-positron Future Circular Collider (FCC-ee) challenges the requirements on optics codes (like MAD-X) in terms of accuracy, consistency, and performance. This paper analyses MAD-X TWISS, TRACK and EMIT modules by comparing their mutual consistency, absolute accuracy and stability and will make improvement proposals.

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Track Classification: FCC-ee accelerator