

eeFACT 2025 - 70th ICFA Advanced Beam Dynamics Workshop on High Luminosity Circular e⁺e⁻ Colliders



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Alignment plans for FCC-ee

The FCC feasibility Study has been performed between 2021 and March this year, to conclude on the technical and financial viability of such a collider at CERN. The FCC-ee would be the largest particle accelerator ever built and comes with technical challenges, including its alignment. Some very preliminary concepts of survey and alignment have been proposed for the feasibility study and a full development plan is proposed for the pre-TDR phase to develop alignment solutions for the Machine Detector Interface area, the Beam Delivery System and the arcs. These solutions are based on new alignment systems and technologies: the Structured Laser Beam and the Frequency Scanning Interferometry, combined with automated measurements as fast, accurate, sustainable and affordable concepts will have to be developed.

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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