

New baseline layout of the CERN Future Circular hadron-hadron Collider

Thursday 18 July 2024 15:42 (15 minutes)

The ongoing feasibility study of the Future Circular Collider (FCC) comprises two distinct accelerators: a high-luminosity circular electron-positron collider known as FCC-ee and an energy-frontier hadron collider named FCC-hh. These two facilities are designed to take advantage of a common tunnel infrastructure. We present the new baseline design of FCC-hh, underlining the most recent updates. These include studies of the corrector systems, optimisation of the arc cell, increasing the dipole filling factor, and subsequent updates to the layouts of the different technical and experimental insertions.

Alternate track

I read the instructions above

Yes

Author: PEREZ SEGURANA, Gustavo (CERN)

Co-authors: ABRAMOV, Andrey (CERN); ZIMMERMANN, Frank (CERN); GIOVANNOZZI, Massimo (CERN); BENEDIKT, Michael (CERN); Dr BRUCE, Roderik (CERN); RISSELADA, Thys; BARTMANN, Wolfgang (CERN)

Presenter: PEREZ SEGURANA, Gustavo (CERN)

Session Classification: Accelerators: Physics, Performance, and R&D for future facilities

Track Classification: 11. Accelerator: Physics, Performance, and R&D for Future Facilities