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## **[331] FCC(-hh) detector design studies**

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The Future Circular Collider is a design study to explore post LHC possibilities at the high energy and high luminosity frontier for electron-positron and hadron-hadron colliders. With the conceptual design report foreseen for the end of 2018, active research in the area of detector concepts and performance is currently ongoing. In particular the detector for hadron-hadron collisions at a center of mass energy of 100 TeV and up to 1000 instantaneous proton-proton collisions will be operated in harshest environment. We present current ongoing detector design studies and benchmarks for the FCC-hh reference detector, the main motivation for the current layout and technology choices and its potential performance and physics potential.

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