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A Future Higgs Factory - The Circular Electron Positron Collider (CEPC)

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The Circular Electron Positron Collider (CEPC) was proposed shortly after the discovery of the Higgs boson at the LHC, as a Higgs factory, with the possibility of being upgraded to a proton-proton collider in the future. The CEPC Study Group has been continuously working on the design of the accelerator, the R&D of critical technologies and components for both the collider and the instrumentation for the experiments. The group recently published the Technical Design Report of the e+e- collider and is in the process of completing a reference design of the detector system. The CEPC will be proposed to the Chinese government for approval for beginning the construction in the 2027-8 period. The CEPC is intended to be an early Higgs factory for the particle physics community. The author will report on the status, recent progress and the plan of the CEPC project.

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