

Prospective overview of the CEPC detector

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The Circular Electron Positron Collider (CEPC) has been proposed by the Chinese High Energy Physics Community to operate as a Higgs Factory, which would allow precision measurements of the properties of the recently discovered Higgs boson. The CEPC detector, with similar performance requirements to the ILC detectors but without power-pulsing, needs to provide significantly improved precision compared to the LEP detectors to make possible the Higgs precision measurements. This would require many innovative detector technologies and advanced electronics to be deployed. In this presentation, I will give an overview of the requirements and challenges, and discuss the possible detector technologies for each sub-detector. I will also report briefly the progress on several detector R&D topics.

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