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Design and Optimization of the CEPC Tracking System

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The Circular Electron Positron Collider (CEPC) is specifically designed for in-depth studies of Higgs, W, and Z bosons, as well as heavy flavor particles. The precision tracking system is pivotal for the success of these physics studies. This presentation will delve into the software tools include fast simulation and full simulation as well as optimization standards that have been meticulously selected, and applied it to achieve best performance. The presentation will showcase the impact of these optimizations on key performance indicators such as momentum resolution, tracking efficiency, and the robustness of the track fitting process.

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