

Prototyping and Assembly of the CMS Phase-2 Outer Tracker Endcap Support Structure

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For the High-Luminosity LHC, CMS will install a completely new silicon tracker. The DESY groupe participates in this project with building one of the tracker endcaps (TEDD). One TEDD is made of five double-disks, each equipped with detector modules on all four faces to ensure a complete coverage. The backbone of the mechanical structure of the TEDDs are highly integrated half-disks, the so-called Dees. A Dee is a carbon fiber sandwich with embedded cooling pipes and module positioning inserts.

Group

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