

DESY CMS Phase-2 Outer Tracker Upgrade - Detector Qualification

The CMS group at DESY is heavily involved in the construction of the Phase-2 upgrade for the Outer Tracker and is responsible for the integration of one of the endcaps. The endcap comprises five double disks, each built from four half disks (Dee). As the integration work is scheduled to start at the end of 2024, over the course of the year we will receive pre-production parts, both for the detector mechanics as well as detector modules. The design and construction of the integration setups and cold tests is ongoing, which will require extensive commissioning. The student will participate in the qualification of pre-production parts (infrared measurements, metrology etc.), construction and commissioning of test setups, as well as test runs of integration, such as module to Dee integration and services routing or double disk integration.

Group

FH - CMS

Project Category

B2. Development of experimental equipment (hardware-oriented)

Special Qualifications

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