

T 47: Hauptvorträge III

Zeit: Mittwoch 9:45–10:30

Raum: H01

Hauptvortrag

T 47.1 Mi 9:45 H01

ATLAS and CMS detector status and upgrades — ●BENEDIKT VORMWALD — Universität Hamburg, Hamburg, Deutschland

2018 was a record-setting year at CERN's large hadron collider (LHC). In just one year, LHC delivered an integrated luminosity of more than 65 fb^{-1} , which is more than 40% of the integrated luminosity of the entire LHC run-2. However, not only the LHC was performing extraordinarily well, but also the two big experiments, ATLAS and CMS,

achieved the highest data taking efficiency in their history amounting to more than 94%.

In the 2-year long shutdown of the LHC ahead of us, the ATLAS and CMS detectors will undergo a very dense maintenance and upgrade program. Some of these activities lay already now the foundations for the high-luminosity program of the LHC starting foreseeably in 2026.

In this talk, the status of ATLAS and CMS at the end of LHC run-2 will be described and the various detector upgrades will be outlined.