



Contribution ID: 201

Type: Oral Presentation

Operations of the ATLAS Hadronic Tile-Calorimeter

Thursday, 6 July 2023 14:40 (20 minutes)

The Tile Calorimeter (TileCal) is a sampling hadronic calorimeter covering the central region of the ATLAS detector. The TileCal provides important information for reconstruction of hadrons, jets, hadronic decays of tau leptons, missing transverse energy and assists in muon identification. The annual operation of the TileCal follows that of the ATLAS detector and by extension the Large Hadron Collider (LHC). The LHC schedule is segmented into discrete periods defined and agreed upon by the LHC and the experiments located along its circumference. This talk will present the activities of the TileCal collaboration that took place from last period of physics data taking in 2022 up until the first stable beams in 2023. A chronological approach will be used to provide insight into the operation of the TileCal with key milestones such as the Year-End Technical Stop, detector calibration, detector commissioning, dedicated tests, beam splash events and the first stable beam collisions being covered.

Apply to be considered for a student ; award (Yes / No)?

Yes

Level for award;(Hons, MSc, PhD, N/A)?

PhD

Primary author: MCKENZIE, Ryan (University Of the Witwatersrand)

Co-author: Prof. MELLADO, Bruce (University of the Witwatersrand and iThemba LABS, National Research Foundation)

Presenter: MCKENZIE, Ryan (University Of the Witwatersrand)

Session Classification: Nuclear, Particle and Radiation Physics

Track Classification: Track B - Nuclear, Particle and Radiation Physics