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Energy scale validation and inter calibration of the ATLAS TileCal using 2015 and 2016 cosmic rays data

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The ATLAS experiment records data from the proton-proton collisions produced by the Large Hadron Collider (LHC). The Tile Calorimeter is the hadronic sampling calorimeter of ATLAS in the region $|\eta| < 1.7$. It uses iron absorbers and scintillators as the active material. Cosmic ray data are used to validate the energy scale and inter-calibration between different layers and regions of the Tile calorimeter. The cosmic data collected in 2015-2017 are used in this study.

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

Yes

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

PhD

Main supervisor (name and email) and his / her institution

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Would you like to submit a short paper for the Conference Proceedings (Yes / No)?

Yes

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