Contribution ID: 92 Type: Poster

ATLAS LAr Calorimeter Commissioning for LHC Run-3

Monday, 25 May 2020 18:40 (5 minutes)

Liquid Argon sampling calorimeters are employed by ATLAS for all electromagnetic calorimetry. After successful operation in Run-1, Run-2 of the LHC started in 2015 and approximately $150 {\rm fb}^{-1}$ of data at a center-of-mass energy of 13 TeV was recorded. With the end of Run-2 in 2018 a multi-year shutdown for the Phase-I detector upgrades was begun.

As part of the Phase-I upgrade, new trigger readout electronics for the liquid Argon calorimeter have been developed. Installation began at the start of the LHC shut down in 2019 and is expected to be completed in 2020. A commissioning campaign is underway in order to realize the capabilities of the new, higher granularity and higher precision level-1 trigger hardware in Run-3 data taking. This contribution will give an overview of the new trigger readout commissioning and compare to Run-2 performance, preparations for Run-3 detector operation and changes in the monitoring and data quality procedures to cope with the increased pileup.

Funding information

Primary author: ATLAS, Collaboration, LAr Project

Session Classification: Poster

Track Classification: Readout: Front-end electronics