ATLAS LAr Calorimeter **Commissioning for LHC Run-3** 19<sup>th</sup> – 23<sup>rd</sup> September, Bergen, Norway **Topical Workshop on Electronics for Particle Physics 2022** 

> A new trigger readout system has been installed on the Liquid Argon Calorimeters to cope with an increase of luminosity at Run-3 of the Large Hadron Collider (LHC).

# **The LAr Calorimeter**

Contain both EM and hadronic calorimeters. Cover the wide range of  $0 < |\eta| < 4.9$  by



# **Phase-I Upgrade Towards Run-3**





# **Readout Path Upgrade**

- instead of legacy analog signals.
- **Front-End** 

  - > 124 LTDBs
- **Back-End**
- $\rightarrow$  Readout Units



#### **Commissioning Plots**





#### References

[1] ATLAS Collaboration, The Phase-I trigger readout electronics upgrade of the ATLAS Liquid Argon calorimeters, arXiv:2202.07384 [2] ATLAS Collaboration, ATLAS Liquid Argon Calorimeter Phase-I Upgrade Technical Design Report, CERN-LHCC-2013-017, ATLAS-TDR-022

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