Contribution ID: **392** Type: **Experimental poster**

The ATLAS Muon Trigger Design and Performance

Thursday, 10 June 2021 18:45 (1 hour)

Muon triggers are essential for studying a variety of physics processes in the ATLAS experiment, including both standard model measurements and searches for new physics. The ATLAS muon trigger consists of a hardware based system (Level 1), as well as a software based reconstruction (High Level Trigger). The muon triggers have been optimised during Run 2 to provide a high efficiency while keeping the trigger rate low. We will present an overview of how we trigger on muons, recent improvements, the performance of the muon trigger in Run 2 data, and the improvements and the readiness for Run 3.

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Session Classification: Poster Session

Track Classification: Performance