

Abstract Submitted
for the APR21 Meeting of
The American Physical Society

Improved Testing and Detection of Correlated Shifts in Trigger Rate Monitoring Tool in ATLAS Control Room CONNOR MENZEL, University of Pittsburgh — The ATLAS detector at the LHC uses a custom trigger system to determine which events are of high enough importance to be saved offline. To monitor the behavior of these triggers we use a tool called Xmon, which has now been in use in the control room at ATLAS for a decade. Xmon records the trigger rates and compares them to the corresponding expected rates in order to detect possible problems with subdetectors. We discuss two recently added functionalities to Xmon: (1) a testbench to allow for the full incorporation of Xmon in testing during the Technical Runs and (2) the ability to detect small correlated shifts over many triggers.

Connor Menzel
University of Pittsburgh

Date submitted: 11 Jan 2021

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