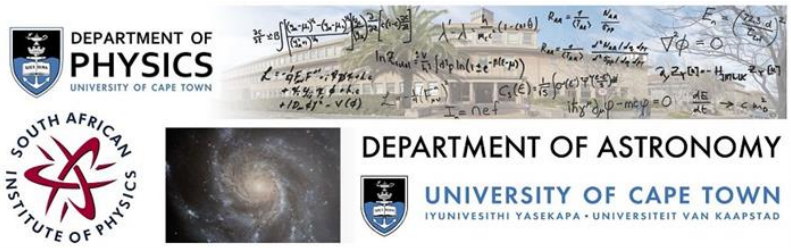
SAIP2016



Contribution ID : 456

ALICE MUON software upgrade for RUN3

Wednesday 06 Jul 2016 at 15:00 (00h20')

Abstract :

The ALICE Detector at CERN's Large Hadron Collider (LHC) will undergo a major upgrade during Long shutdown 2 in 2019/20 in preparation for increased data rates during Run 3 of more than 1 TB/s for Pb-Pb interaction rates of 50 kHz. Several detectors, including the muon arm, will be upgraded to continuous readout. As part of the upgrade, the offline and online software will be merged into a single framework, running on a substantial computing farm at the site of the ALICE Experiment.We will discuss the upgrade of the software for the muon arm, specifically the cluster finder for the muon chambers, the mechanisms to run it in the new online-offline framework, and the strategy to achieve the desired performance increase compared to the current offline muon software.

Award :

Yes

Level :

PhD

Supervisor :

Jean Cleymans UCT

Paper :

Yes

Permission :

No

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