PHYSICS AND ASTRONOMY

SEMINAR

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"Operation and performance of the ATLAS Detector in LHC Run II"

Abstract

The ATLAS detector recorded approximately 34 inverse femtobarns of good quality pp collision data at a centre of mass energy of 13 TeV during 2016. This was made possible due to the excellent LHC performance and the high data-taking efficiency of 92.4% achieved at ATLAS. There is significant involvement from Canadian institutes in the areas of trigger operations, inner detector performance, muon spectrometer performance and the operation of and data quality assessment for the liquid argon calorimeter. At the end of the 2016 data-taking campaign a period of machine maintenance commenced to prepare the LHC and detectors for further operation in 2017 and 2018. This talk presents an overview of the data quality and performance of the ATLAS detector in 2016 and the status looking forward to 2017+2018 following the upgrade and maintenance activities carried out during the extended year end technical stop.

Friday June 2, 2017
1:00 p.m.
Clearihue Building
Room B215