



Contribution ID: 140

Type: **Talk**

Commissioning of the BIS78 pilot project of the phase-1 upgrade of the ATLAS muon spectrometer

Wednesday, 1 September 2021 11:50 (25 minutes)

The Monitored Drift Tube (MDT) provides precise tracking and momentum measurement in the ATLAS muon spectrometer. To accommodate higher event rates and provide better fake rejection in the High Luminosity LHC, a new integrated chamber with small-diameter MDT (sMDT) and thin Resistive Plate Chambers (tRPC) had been developed and will be installed into barrel inner layer of the muon detector for the phase-2 upgrade. The BIS78 project serves as a pilot project for the barrel inner layer upgrade ($1 < |\eta| < 1.3$). During the LHC LS1 shutdown (2019-2021) several sMDT+tRPC chambers have been installed and operated in the ATLAS detector. An overview of the commissioning status of BIS78 in the ATLAS experiment will be presented.

Details

SPEAKER: Meng-Ju Tsai - University of Michigan, Department of Physics - email: meng-ju.tsai@cern.ch

Is this abstract from experiment?

Yes

Name of experiment and experimental site

ATLAS - CERN

Is the speaker for that presentation defined?

Yes

Internet talk

Maybe

Primary authors: IODICE, Mauro (INFN - Sezione di Roma Tre); TSAI, Meng-Ju (University of Michigan)

Presenter: TSAI, Meng-Ju (University of Michigan)

Session Classification: Mini Workshop on Instruments and Methods in HEP