



Contribution ID: 258 Contribution code: S05-HEP-208

Type: **Poster presentation**

Progress on characterizatin of LGAD sensors for the ETL

Tuesday, 30 August 2022 18:00 (1h 30m)

Installation of a MIP Timing Detector (MTD) to the CMS detector will introduce new capabilities and will allow precise timestamp assignemnt to traversing charged particle up to pseudorapidity of $|\eta|=3$. Targeted timing resolution is 40 ps per track, which will help reduce the pile-up conditions expected at the High-Luminosity LHC. The endcap region of the MTD, Endcap Timing Layer (ETL), will be instrumented with silicon Low Gain Avalanche Diodes (LGADs), covering the pseudorapidity range $1.6<|\eta|<3.0$. Progress on characterisation of LGAD sensors for the ETL will be presented.

Primary authors: MARKOVIC, Lazar (University of Belgrade, University of Torino, INFN Torino); CAR-TIGLIA, Nicolo; MILENOVIC, Predrag; ARCIDIACONO, Roberta; COVARELLI, Roberto

Presenter: MARKOVIC, Lazar (University of Belgrade, University of Torino, INFN Torino)

Session Classification: Poster session

Track Classification: Scientific Sections: S05 High Energy Physics (Particles and Fields)