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[C05] Muon Forward Tracker: a new ALICE upgrade at forward rapidities for LHC Run 3

Wednesday 7 October 2020 22:00 (30 minutes)

During Runs 1 and 2, the ALICE Muon Spectrometer has produced many results at forward pseudorapidities ($2.5 < \eta < 4$) mainly on quarkonia and open heavy flavours. Nevertheless, the frontal absorber of the spectrometer prevents the separation of charm and beauty contributions to these observables. To remove this limitation, the Muon Forward Tracker (MFT), a new tracker with high spatial resolution, will be installed between the interaction point and the frontal absorber. The MFT is composed of 936 pixel sensors of high performances (ALPIDE), also used for the new ALICE inner tracking system. Covering almost the full acceptance of the muon spectrometer, the sensors are placed on both sides of 5 vertically positioned disks made of composite materials which are surrounding the beam pipe.

This contribution will review the design of the MFT and its specific developments. While its commissioning is on-going at CERN, the status of the MFT before installation in the experiment will also be reported.

Presenter: BATIGNE, Guillaume (Centre National de la Recherche Scientifique (FR))

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