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Muon Forward Tracker: adding vertexing capability to the ALICE MUON Spectrometer

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For Runs 3 and 4, an ambitious upgrade program is ongoing within the ALICE experiment to further explore the properties of the Quark Gluon Plasma. The Muon Forward Tracker (MFT), one of the major ALICE upgrades, aims to add vertexing capability for muon detection at forward rapidity by providing vital track information in front of the absorber of the Muon Spectrometer. MFT will allow to separate charm and beauty contributions by measuring displaced vertices of heavy flavor hadron decays and allow for high precision low mass vector meson measurements by improving the Muon spectrometer mass resolution.

MFT consists of 5 double-sided layers of the ALPIDE silicon pixel detector with CMOS technology covering a rapidity range of $-3.6 < y < -2.5$. Intensive efforts of the MFT detector assembly are ongoing as well as the development of the detector control system. The commissioning of the MFT has started. In this poster, we will report on the latest status of the MFT assembly, and its commissioning.

Primary author: YAMAGUCHI, Yorito (Hiroshima University (JP))

Presenter: YAMAGUCHI, Yorito (Hiroshima University (JP))

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