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Commissioning of the ALICE Muon Spectrometer Trigger at LHC

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The forward Muon Spectrometer of the ALICE experiment aims at investigating the properties of strongly interacting matter at the extreme energy density reached in heavy ion collisions at LHC. The trigger system of the Muon Spectrometer, called Muon Trigger, consists of four planes of RPC (Resistive Plate Chamber) detectors with a total area of 140 m2, 21k frontend channels and fast-decision electronics. It is designed to reconstruct (muon) tracks, in a large background environment. A fast trigger decision, for both single-muons and dimuons, is delivered each 25 ns (40 MHz) with a total latency of about 800 ns. The Muon Trigger setup and design will be described. The performances, especially the ones related to trigger decision, obtained with dedicated test tools, cosmic rays and first beams will be presented.

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