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The STAR Muon Telescope Detector Upgrade

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The 2014 RHIC run marks the complete installation of the Muon Telescope Detector (MTD) by the STAR Collaboration. This detector upgrade is based on long Multi-gap Resistive Plate Chambers (MRPCs) which have been mounted outside STAR's magnet yoke. The MTD provides a coverage of 45% in azimuth over almost one unit of pseudorapidity, centered around mid-rapidity. The detector, in combination with other mid-rapidity detectors and the newly installed Heavy Flavor Tracker, will enable STAR to accurately address a wide range of physics that involve dilepton and heavy-flavor probes. In this poster, we will present the physics prospects of the MTD upgrade, as well as a first glimpse at its performance in the present RHIC 200 GeV Au+Au heavy-ion run.

On behalf of collaboration:

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