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The PHENIX MPC-EX pre-shower detector

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The Muon Piston Calorimeter Detector Extension (MPC-EX) is a silicon strip preshower detector recently installed at PHENIX.

The MPC-EX detector comprises two arms of eight layers each, which in turn are composed of 2 mm of tungsten and 0.5 mm of Silicon with a pitch of $2 \times 15 \text{ mm}^2$.

Due to its granularity, forward acceptance and complementarity to the MPC calorimeter, it will allow for precise π^0 and direct photons spectra measurements, jet reconstruction and the quantification of flow observables. Last year, the MPC-EX and MPC detectors' particle separation power and energy resolution were tested with a monochromatic testbeam of 9 and 12 GeV/c electrons at SLAC.

This year, both detectors has succesfully taken data during both p-p and p-Au runs from where we have obtained first results of the performance of the detector in both systems.

The MPC-EX detector performance in the testbeam and Run15 is presented here.

On behalf of collaboration:

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