

Abstract Submitted
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Two-Particle Correlations in $p+p$ and $p+Au$ Collisions with the MPC+MPC-EX detector at RHIC-PHENIX NATHAN GRAU, Augustana College, PHENIX COLLABORATION — PHENIX has installed a Si-W preshower (MPC-EX) to the existing $PbWO_4$ electromagnetic calorimeter (MPC) in the forward $3.0 < |\eta| < 3.8$ direction to significantly enhance the position detection of electromagnetic showers. The enhanced position detection allows for the detection of π^0 s to much higher energy and transverse momentum than with the MPC alone. Single and multi-particle production in this η and p_T region will allow PHENIX to probe lower in x and higher in Q^2 than previously available. We present the current status of two-particle correlations in both $p + p$ and $p+Au$ using where at least one of the pair is an identified π^0 in the MPC+MPC-EX and how that informs our understanding of the initial state of nuclei.

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