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Search for long range angular correlations in high-multiplicity p+p collisions at $\sqrt{s}=200$ GeV from PHENIX

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Long range angular correlations have been found in d+Au and ^3He+Au collisions at RHIC energies, and in p+p and p+A collisions at LHC energies. To have a better understanding of whether quark-gluon plasma could be formed and collective behavior could arise in small systems motivates this study to see if such correlations also exist

in p+p collisions at RHIC energies. With the implementation of a high-multiplicity trigger using the forward silicon detector(FVTX), the PHENIX collaboration has taken several hundred million high multiplicity events for p+p collisions at $\sqrt{s}=200$ GeV. The correlation results will be shown as a function of transverse momentum and charged particle multiplicity.

This poster presents first results on two-particle angular correlations for charged particles emitted in p+p collisions at center-of-mass energy of 200 GeV.

On behalf of collaboration:

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