

Abstract Submitted
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Two particle number and momentum correlations for $\sqrt{s_{NN}}=200$ GeV Au+Au collisions at STAR LARRY TARINI, Wayne State University, STAR COLLABORATION — Recent two-particle correlation measurements of Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV at STAR differ from previous p+p correlation results due to the appearance of strong long-range correlations in relative pseudorapidity, a phenomenon known as “the ridge.” Using three different number and transverse momentum pair correlation observables, we investigate the ridge and related phenomena as a function of collision centrality and charge dependence. Parameters for a Gaussian fit in $\Delta\eta$ and harmonic coefficients in $\Delta\phi$ are extracted for number correlations.

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