

Abstract Submitted
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Azimuthal correlations with identified strange trigger particles in $Cu+Cu$ collisions at $\sqrt{s_{NN}} = 200 GeV$ at RHIC CHRISTINE NATTRASS, Yale University, STAR COLLABORATION — Two particle correlations should yield information about particle production mechanisms in jets at RHIC energies. Using identified particles may reveal differences between baryons and mesons and between quark and gluon jets. Two particle azimuthal correlations in $Cu+Cu$ collisions in the STAR detector at $\sqrt{s_{NN}} = 200 GeV$ with identified $\Lambda, \bar{\Lambda}$, and K_S^0 trigger particles and unidentified hadron associated particles are presented. The dependence of the near side peak on centrality and transverse momentum is investigated. Singly-strange triggers are compared to multiply-strange triggers and the $Cu+Cu$ data are compared to the $Au+Au$ data. These studies may help distinguish between particle production mechanisms.

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