

Abstract Submitted  
for the DNP08 Meeting of  
The American Physical Society

**Transition in same-side  $(\eta, \phi)$  correlation for Cu-Cu data from STAR** DUNCAN PRINDLE, STAR TEAM — Two-dimensional angular correlations on relative pseudorapidity  $\eta$  and azimuth  $\phi$  are presented for charged particles from Cu-Cu collisions at  $\sqrt{s_{NN}} = 62$  and 200 GeV, with transverse momentum  $p_t \geq 0.15$  GeV/ $c$  and  $|\eta| \leq 1$ . For Au-Au data we observe a number of significant structures, including a peaked structure for same-side pairs (relative  $\phi < \pi/2$ ) and a closely related away-side ridge. That peak follows binary-collision scaling in Au-Au until mid-centralty where an abrupt transition to a qualitatively different centrality trend is observed, leading to a manifestation at lower  $p_t$  of the ridge phenomenon observed in trigger-associated particle correlations at higher  $p_t$ . Here we present results using the same analysis technique but on Cu-Cu collisions at  $\sqrt{s_{NN}} = 62$  and 200 GeV. Here we also observe a same-side peak and away side ridge. We focus on a comparison of the centrality trend of transition points in Cu-Cu to that of corresponding transitions previously observed in Au-Au.

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Date submitted: 01 Jul 2008

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