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Centrality and Transverse Momentum Dependence of HBT Radii in Au+Au Collisions BENJAMIN SCHWEID, Stony Brook University — The expansion dynamics of relativistic heavy ion collisions is influenced by the transport properties of the created medium, as well as the path of the reaction trajectory in the (T, μ_B) -plane. Such an influence can manifest as quantifiable changes in the magnitude of the space-time extent of the emission source, characterized by the so-called HBT radii R_{out} , R_{side} and R_{long} . We will present and discuss recent HBT measurements which extend the upper momentum range of measurements that have been made in the STAR detector for Au+Au collisions at several collision centralities and beam energies.

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