Results from Three Particle HBT Interferometry at STAR

R.M.Willson for the STAR Collaboration

\textsuperscript{a}The Ohio State University, Columbus, Ohio, USA

\textit{Presented by:} R.M.Willson

\textbf{Abstract}

RHIC collisions provide the highest pion multiplicities available in the lab. When pion phase space density is growing the effects of multi-particle correlations are expected to play an increasing role. Three-particle HBT interferometry of like-signed pions allows the measurement of source coherency and asymmetry \cite{1} through the Heinz and Zhang phase factor \cite{2}. We will present preliminary results of the three-pion correlation analysis performed by the STAR Collaboration at RHIC. In particular we will show phase factor as a function of centrality.