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Two-pion Source Imaging with the STAR experiment

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Three-dimensional pion source images have been successfully extracted from relativistic heavy-ion collisions at RHIC and CERN recently. The extraction exploits the use of the 3D source imaging technique of Danielewicz, Pratt and Brown.

The STAR collaboration has acquired much better statistics data in recent years thus extending the application of imaging techniques to pion correlation functions obtained with various pion pair k_T and collision centrality selections. This permits the systematic extraction of dynamical parameters of the pion source evolution.

The STAR program for extracting the pion source images at various k_T and centrality bins with improved statistics will be presented in conjunction with model calculations.

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