EbyE HBT at RHIC

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Abstract

With the multiplicities found at RHIC energies the analysis of Bose Einstein Correlations on an event-by-event basis might become possible. The study of the event-by-event determined HBT radius parameter and its dependence on other observables may reveal novel event classes [1] and hence yield some information about the early stages of an heavy ion collision. We will present correlation functions for single events using identified charged pions in high multiplicity events at sqrt(Snn) = 130 GeV and discuss the according fit parameters.

[1] S. Gavin and C. Pruneau nucl-th/9906060