Performance of the Time-of-Flight Counter in PHENIX

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Abstract

The Time-of-Flight (TOF) counter provides particle identification of charged hadrons in PHENIX. The emphasis of PHENIX is to probe properties of matter from simultaneous measurements of various species of particle. Identification of charged hadrons allows us to study pt distributions, production of anti-protons, the phi-mesons via K+ and K- decay, and the HBT correlations.

In the summer of 2000, TOF system was operated successfully and clear particle separation was achieved. Detector performance and particle identification capability from the Au + Au runs at sqrt(s) = 130 A GeV will be discussed.

(Poster Presentation)