Transverse Energy Measurements with the PHENIX Detector at RHIC

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Abstract

Transverse energy (Et) is one of the global variables, which provides valuable information regarding the dynamics of nucleus-nucleus collisions. The first measurements of transverse energy distributions at mid-rapidity for sqrt(s)=56 and 130 A GeV Au-Au collisions at RHIC in the PHENIX detector are presented. The correlation of transverse energy with the number of forward neutrons is shown. The centrality dependence is discussed. The amount of Et per participant pair is derived and compared with results at lower beam energy.

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