Photon Production in Au+Au collisions at $\sqrt{s_{NN}} = 130$ GeV

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Abstract

Results are presented for inclusive photon yields from Au+Au collisions at $\sqrt{s_{NN}} =$ 130 GeV. Photons in the energy range 50 MeV $< E_\gamma <$ 2 GeV have been detected by reconstructing conversion pairs in the STAR TPC. Energy resolution, purity, and detection efficiency of the photon sample will be discussed. Prospects for extracting cross sections of relevant photon production processes will be presented.

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