Particle Ratios from Au+Au Collisions at $\sqrt{s_{NN}} = 130$ GeV

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Abstract

We have analyzed the first RHIC Au+Au collision data from the STAR Time-Projection Chamber. We shall present ratios of proton to anti-proton and lambda to anti-lambda from Au+Au collisions at $\sqrt{s_{NN}} = 130$ GeV. The ratio of K^+ to K^- will also be studied in comparison with the ratios of baryons to anti-baryons. The centrality dependence of the ratios as a function of p_t and rapidity will also be investigated. We shall discuss the implications of the results on the net baryon density, baryon and hyperon hadronization at mid-rapidity.