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Charged Particle Ratios for p+p Collisions in √s = 62.4 GeV at RHIC

The ratios of particle production in hadronic interactions are important indicators of the collision dynamics [1]. These can be used to probe the process of hadronization in high energy collisions. We present measurements of mid-rapidity anti-particle to particle ratios in p + p collisions at √s = 62.4 GeV from the STAR experiment. The measurements of the anti-particle to particle ratios are studied as a function of transverse momentum (pT) and comparison is made with corresponding ISR results for the p + p collisions at √s = 63 GeV [2]. Identification of charged hadrons (π^± , k^± , p and pbar) was done primarily through time projection chamber measurements. Charged hadrons are identified by using specific ionization energy loss (dE/dx)
at the low momentum region [3].

References

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