erence on Physics ark Gluon Plasma

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Anti-particle to particle Ratio for p+p Collisions in \sqrt{s} = 62.4 GeV at RHIC

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Content :

The study of charged hadron yields and their anti-particle to particle ratios are very significant as they give vital information about the hadronization mechanisms in high energy collisions. We present measurements of mid-rapidity anti-particle to particle ratios in p+p collisions at $\sqrt{s} = 62.4$ GeV collisions from the STAR Experiment. Charged hadrons are identified by using specific ionization energy loss (dE/dx) method at the low momentum region [1]. A Gaussian variable n σ i is used and multi-gaussian fit is aaplied separately to n σ i distributions of $\pi \pm$, k \pm , p and pbar to extract the raw particle yields. The anti-particle to particle ratios are discussed for $\pi \pm$, k \pm , p and \bar{p} as a function of pT. The results are also compared with the ISR results at 63 GeV for p + p collisions [2].

References

Abelev, B. I., et al.[STAR Collaboration], Phys. Rev. C 79 (2009) 34909.
Alper, B., et al., Nuclear Physics B100 (1975) 237-290.

Collaboration :

STAR COLLABORATION

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