Calculating the reconstruction efficiency of singly strange hadrons in the STAR TPC

Matthew A. C. Lamont [??] for the STAR Collaboration

[a] *The University of Birmingham, U.K.*

Presented by: Matthew A. C. Lamont

Abstract

The correction method used to obtain the yield of Lambdas, Anti-Lambdas and K0-Shorts reconstructed in the STAR TPC will be presented. Monte Carlo generated decays are embedded into real data at the pixel level. This allows them to be found using the standard reconstruction chain. The reconstructed embedded decays determine both the geometrical acceptance and the reconstruction efficiency, which are used to correct the raw yields. Corrected rapidity and pt distributions will also be shown.