

Abstract Submitted
for the PSF11 Meeting of
The American Physical Society

Modification of fully reconstructed jets in $\sqrt{s}=200$ GeV $d+Au$ collisions at PHENIX GRAU NATHAN, Augustana College, PHENIX COLLABORATION — Fully reconstructed jets in $d+Au$ collisions allow the study of the cold nuclear medium such as the nuclear parton distribution function and the multiple-scattering of the partons traversing this medium. In this contribution we present the current results from the PHENIX experiment on fully reconstructed anti- k_T jets using the 2008 $d+Au$ dataset. Jets with $p + p$ -equivalent jet energy above 15 GeV show a reduction of the rate of these jets in central $d+Au$ compared to peripheral $d+Au$ collisions. The implication of this data on our understanding of the nuclear wavefunction and cold nuclear matter multiple-scattering models will be discussed.

Grau Nathan
Augustana College

Date submitted: 30 Sep 2011

Electronic form version 1.4