

Abstract Submitted
for the APR07 Meeting of
The American Physical Society

Nuclear Shadowing and Select d+Au Observables¹ ADEOLA ADELUYI, GEORGE FAI, Kent State University — Much of the complexity of the description of d+Au collisions in the framework of perturbative Quantum Chromodynamics (pQCD) derives from effects of the nuclear environment. Here we investigate the effects of the most recent available nuclear shadowing parametrization, the Hirai-Kumano-Nagai (HKN) nuclear parton distribution functions (nPDFs) and the updated Albino-Kniehl-Kramer (AKK) fragmentation functions on three select d+Au collision observables. We compare our results to available experimental data from the STAR and BRAHMS collaborations.

¹Supported in part by DOE DE-FG02-86ER40251

Adeola Adeluyi
Kent State University

Date submitted: 11 Jan 2007

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