Abstract Submitted
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Bjorken scaling for hadron-nucleus scattering[1] R.J. PETERSON, University of Colorado — Electron scattering to the continuum for several nuclear samples at energy losses less than those for scattering on free nucleons (x_{Bj} >1) has been shown to sense high nucleon momenta arising from hard collisions or correlations within nuclei, using ratios of cross sections.[2] A similar analysis has been carried out for continuum hadron scattering at lower momentum transfers but including a very wide range of nuclei and several reactions, including proton scattering up to 19.2 GeV/c, proton charge exchange, and pion scattering. These data show the same trends as noted with electrons, but heavier nuclei show systematically enhanced contributions from high nucleon momenta. A wide range of data will be compared to the electron results.

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[2]K. Sh. Egiyan et al., Phys. Rev. C 68, 014313 (2003).

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