

APR10-2010-020187

Abstract for an Invited Paper
for the APR10 Meeting of
the American Physical Society

The EMC Effect: Recent data and future corrections¹

JOHN R. ARRINGTON, Argonne National Laboratory

The EMC effect demonstrates clearly that the quark substructure of nuclei is not universal, but it has been difficult to disentangle nuclear structure effects from possible modifications of the internal structure of the constituent nucleons. Data from recent measurements will help separate these effects, and have provided new insight into what drives the nuclear dependence. Future measurements, including ones that leverage recent developments in experimental techniques aimed at understanding nucleon structure, will provide further and more detailed information on these nuclear effects.

¹This work is supported in part by the U.S. Department of Energy, Office of Nuclear Physics, under contract DE-AC02-06CH11357.