

## Overview of Color Transparency Measurements

*Lamiaa El Fassi, Rutgers University, for the CLAS collaboration*

One of the most challenging topics in Quantum Chromo-Dynamics (QCD) for decades is the study of nuclear structure in terms of a fundamental QCD picture of quarks and gluons. Performing this study over a range of energies helps emphasize the strength of the strong nuclear force, and gives a decent description of the transition from colored confined partons to the ordinary colorless hadrons. The best tool for understanding the transition is to search for the onset of Color Transparency (CT), one of the predicted phenomenon of QCD. Color transparency refers to the suppression of final (and initial) state interactions caused by the cancellation of color fields in a special configuration of quarks and gluons with small transverse separation. In this talk I will give an overview of the CT measurements that were carried out by studying the production of different hadrons species at various energies. I will also highlight the future experiments planned after the 12 GeV upgrade of Jefferson laboratory.