

Abstract Submitted
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Search for the Onset of Color Transparency : JLab E02-110 experiment LAMIAA EL FASSI, Argonne National Laboratory, CLAS COLLABORATION¹ — The JLab E02-110 experiment was carried out in 2003-2004 using the CEBAF Large Acceptance Spectrometer (CLAS) located in Hall B at Jefferson Laboratory. The main goal of this experiment is to look for the onset of Color Transparency (CT) in the exclusive incoherent ρ^0 electroproduction on deuterium, carbon and iron. These measurements study the Q^2 dependence of the nuclear transparency T_A , the ratio of the nuclear per-nucleon (σ_A/A) to the free nucleon (σ_N) cross sections, at fixed coherence length l_c of quark-antiquark fluctuations of the virtual photon. A significant increase of T_A with Q^2 would be a signature of CT. A brief description to the experiment and the ongoing analysis work will be presented in this talk.

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