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Color transparency and hadronization

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The propagation of colored quarks through the strongly interacting nuclear medium and subsequent formation of hadrons are the phenomena related to the fundamental processes in QCD. There are many experimental tools which can be employed to study those processes. In this talk I will present two results based on the measurements of hadronic final states produced with 5 GeV electron beam in the fixed target experiment in Jefferson Lab. We measured modification of hadron yields on the C, Fe, and Pb targets normalized to D in deep inelastic scattering regime. Analysis of these data addresses the study of quark propagation and hadron formation mechanisms. The measurement of exclusive ρ^0 production on a nuclear target relative to deuterium confirms QCD prediction for color transparency and formation of small size configuration.

Author: MINEEVA, Taisiya (UTFSM)

Presenter: MINEEVA, Taisiya (UTFSM)

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