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Ratios of helicity amplitudes for hard exclusive ρ^0 electroproduction on transversely polarized protons at HERMES

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The HERMES experiment collected a wealth of deep-inelastic scattering data using the 27.6 GeV polarized lepton beam at HERA and various pure gas targets, both unpolarized and polarized. This allowed for a series of diverse measurements. Among them are measurements on hard exclusive meson production, which provide information on generalized parton distributions (GPDs), in a complementary way to, e.g., deeply virtual Compton scattering. Access to these GPDs is possible through the measurement of helicity amplitude ratios. Helicity amplitude ratios from exclusive ρ^0 production on transversely polarized protons are presented and discussed as well as compared to a theoretical model [1, 2].

[1] S. V. Goloskokov and P. Kroll, Eur. Phys. J. C 50, 829 (2007).

[2] S. V. Goloskokov and P. Kroll, Eur. Phys. J. C 53, 367 (2008).

Primary author: VAN HULSE, Charlotte

Presenter: VAN HULSE, Charlotte

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