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Deeply Virtual Compton Scattering off deuteron and twist three contributions

Thursday, 22 July 2010 10:00 (13 minutes)

We study a deeply virtual Compton scattering off a spin-one particle, as the case for coherent scattering on a deuteron target. We discuss the role of twist three contributions for restoring the gauge invariance of the amplitude corresponding to this process. We consider both kinematical and dynamical sources of twist three generalized parton distributions. The role of the QCD equations of motion is discussed in detail. We derive a new kind of the Wandzura-Wilczek relations between the twist-2 and twist-3 generalized parton distributions.

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