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Dispersion representation of the D-term form factor deeply virtual Compton scattering

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We review the dispersion analysis of deeply virtual Compton scattering and present a dispersive representation of the D-term form factor for hard exclusive reactions.

We use unsubtracted t -channel dispersion relations, where the t -channel unitarity relation is saturated with the contribution of two-pion intermediate states, using the two-pion distributions amplitude for the $\gamma^*\gamma \rightarrow \pi\pi$ subprocess and reconstructing the $\pi\pi \rightarrow N\bar{N}$ subprocess from available information on pion-nucleon partial-wave helicity amplitudes.

Results for the D-term form factor as function of t as well as at $t = 0$ are discussed in comparison with available model predictions and phenomenological parametrizations.

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