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Cross channel properties of the photon generalized parton distributions

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Generalized parton distributions (GPD) are being extensively used to describe hard exclusive hadron processes. Twist-2 photon GPDs has been previously derived by calculation of the photon-photon electromagnetic scattering amplitude. These distributions may give contribution to the ultraperipheral light-by-light processes in heavy ion collisions recently observed at the LHC. New method of analytic continuation of GPD for different kinematical regions applied on the photon GPDs and model distributions.

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