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Hard exclusive processes in the backward region

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We discuss the potentialities offered by the study of backward exclusive processes in the scaling regime, i.e. involving a large Q^2 photon and a baryonic exchange in the t -channel. We introduce the concept of Transition Distribution Amplitudes (TDAs) containing unique information on the hadron structure, then discuss how they enter the description of processes such as backward electroproduction of a pion, antiproton-proton annihilations into a dilepton + meson as well as into J/Ψ + meson. We discuss first estimates of cross sections that are being measured at JLAB along with predictions for processes for Panda at GSI-FAIR. Finally we present outlooks for their theoretical studies based on approaches such as the pion cloud model.

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