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Parton Structures in Backward Photo/Electroproduction of Meson

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We construct a Reggeized model for the u -channel baryon exchange to investigate parton contribution to various types of hadron reactions at backward angles. Backward photoproductions of lighter vector mesons $\rho^0(770)$, $\omega(785)$, and $\phi(1020)$ off the proton target are investigated with a common set of parameters for the parton distribution function. Analysis of pion electroproduction as well as $\Delta(1232)$ photoproduction in the final state is presented to discuss the parton structure in these reactions. The current model provides a way to observe the respective roles of baryon and partons in the u -channel exchange process.

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