EFFECTS OF THE INCLUSIVE DIPOLE POMERON TO EXCLUSIVE PROCESSES*

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Abstract

The consequences of the inclusive dipole Pomeron for the exclusive processes are investigated. The factorization of the dipole in the Mueller diagrams is consistent with positivity if we impose that the self coupling of the double pole is zero ($g_{dd}=0$). In the weak coupling $g_{sd}$ approximation, keeping only first order terms in the generating function we obtain a two component mechanism for the exclusive production. The simple pole component of the inclusive Pomeron leads to the Poisson distribution and the double pole component to the diffractive component. A meson trajectory appears in the multi-peripheral chain with intercept $\alpha_R$ depending on the coupling $g_{ss}$ whereas the exclusive Pomeron has the same dipole structure at $j=1$.

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