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Diffractive cross sections in high energy heavy ion reactions with the dipole formalism

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Recent developments in the Lund Dipole Cascade Model make it possible to study diffractive processes in high energy heavy ion collisions by this tools. In the dipole formalism of parton interactions fluctuations are naturally included and adding them to the pomeron ladder they substantially determine the diffractive excitation cross sections in such reactions. Our Monte Carlo event generator provides results for pA and γ -A diffractive cross reactions that are shown and discussed. A general observation is that their ratios compared to the total cross sections are relatively small but not negligible.

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