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Exploring the dip in the differential elastic cross section from LHC energies to the limit of asymptotic energy.

We use three different formalisms to explore the evolution of the scaling variable (t_D) given by the transverse momentum squared times the total cross section, from LHC energies to the limit of high energy. Using the eikonal approximation, the grey disk model and the dipole and saturation model, we will show the comparison among these three formalisms in the t_D and in the evolution of the total cross section on the collision energy and data.

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