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Central Exclusive Production in hadron collisions

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Central exclusive production (CEP) processes in high-energy proton-(anti)proton collisions offer a very promising framework within which to study both novel aspects of QCD and new physics signals. We discuss the charmonium production applying the Durham pQCD-based model for evaluation of the rates and proton momentum correlations at the Tevatron and LHC energies and compare the results with the existing experimental data.

We also present new results of a recent novel application of the 'hard exclusive' PT formalism to the CEP of dijets, diphotons and to dimeson CEP which, in particular, opens a way to probe the gluon component of the meson wave-functions.

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