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Diffractive W production in SCI models

The soft color interaction model (SCI) as an add-on to standard perturbative QCD describes diffractive processes by allowing for additional soft color-octet exchanges below the threshold for parton showering. We show how diffractive and inclusive event samples can be obtained from a Monte Carlo in a unified way, and discuss potential differences compared with Regge based models in the example of diffractive W production. We also present an evolved version of SCI based on perturbative QCD in the context of DDIS and show that the prediction agrees with the original SCI model.

(Based on arXiv:1210.5976)

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