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Models for the energy behaviour of MPS effective cross-section

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We examine currently available data for Double Parton Scattering and discuss the energy behaviour of the extracted effective cross-section. A variety of models is compared with different data sets. We find that processes dominated by gluons initiated DPS, such as 4 jet production, exhibit a rising behaviour as the energy increases. Eikonal models as well as models based on empirical fits to pp elastic cross-section are compared with data.

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