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Double Parton Scattering and Double PDFs

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Double parton scattering (DPS) is the process in which two hard scatters occur in a single proton-proton collision. This process involves a pair of partons from each proton and thus allows us to learn about the correlations between them. I will discuss the basics of DPS as well as the various sources of these correlations such as spin effects, number and momentum rules and the perturbative splitting contribution. Finally I will show how these effects can be captured in double parton distribution functions.

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