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Theory of Double Parton Scattering

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Double parton scattering (DPS) is the process in which two distinct pairs of partons hard scatter in an individual proton-proton collision. It can be an important background to single scattering processes suppressed by small or multiple coupling constants (e.g. new physics signals), and can reveal novel information about the proton structure. I review recent developments in the endeavour to describe this process theoretically using a ‘hard scattering factorisation’ framework.

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