

Double-Parton-Scattering Theory Studies with quarkonia

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I will review the status of theory studies of Double Parton Scatterings (DPS) using associated production of quarkonia at colliders. This includes $J/\psi + J/\psi$, $\Upsilon + \Upsilon$, $J/\psi + \Upsilon$, $J/\psi + W$, $J/\psi + Z$, $\Upsilon + D$ and $J/\psi + D$. Where relevant, I will discuss the impact of QCD corrections to Single Parton Scatterings which can affect the extraction of the DPS yield. I will also discuss specific observables related to the quarkonium polarisation and the feed-down pattern which can help verify the dominance of either SPS or DPS contributions in a given kinematical region.

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