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Double Parton Scattering at Short Relative Transverse Distances

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The contributions to the Double Parton Scattering cross section, due to pairs of interacting partons generated by perturbative splitting is enhanced at short relative transverse distances, between the centers of mass of the two partonic collisions. One may thus foresee the interesting possibility of discriminating experimentally between contributions to the double parton scattering cross section, due to interacting parton pairs originated by independent evolution, and contributions, due to interacting parton pairs generated by splitting.

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