

Double Parton Scattering

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Double parton scattering (DPS) is a mechanism in which two partons from each proton initiate a scattering process. The cross section formula is described by a partonic distribution function (PDF), a double parton distribution (DPD) and scattering cross sections relative to more fundamental hard processes, i.e., the formula can be written in such a way that is possible to describe different distance scales, similarly to the case of one parton scattering (SPS). A pertinent problem is the transition cases between the DPS, initiated by partons far from each other, from those initiated by correlated partons that are from a common origin. Currently, there is already a way to tackle this problem by preserving DPS meaning and its field formulation definition, and this work, meanwhile it pursues this theoretical framework aiming for its betterment, reviews open questions and details on DPS Physics.

Summary

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