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Unintegrated double parton distributions

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The construction of the unintegrated double parton distribution functions which include additional dependence on transverse momenta is presented. The theoretical framework is an extension of the previous formulation which was used to obtain the single unintegrated parton distribution functions from the standard integrated parton densities. Starting from the DGLAP-like evolution equations for the integrated double parton distributions, the homogeneous part of the unintegrated double parton distribution functions are defined through the convolutions of the integrated double distributions with the appropriate splitting functions and the product with the Sudakov form factors. It is shown that there are three domains of external scales which require three distinct forms of these unintegrated densities. The ensuing correlations in the longitudinal momenta is also dicussed as well as to the unintegrated double parton distributions from the non-homogenous term which corresponds to the splitting of a single parton into daughter partons with high transverse momenta.

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