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## Constraining DPD models using sum rules

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Double parton distributions (DPDs) are not only an essential building block needed in factorization theorems to calculate double parton scattering (DPS) cross sections in perturbation theory, but they also contain very detailed information about hadronic structure. However, as presently an extraction of DPDs from experimental data or lattice calculations is not yet feasible, it is common practice to resort to DPD models motivated by physical intuition. One constraint any such model should fulfil are the DPD sum rules by Gaunt and Stirling. We check numerically how restrictive the constraints imposed by these sum rules are and show how they can be used to improve DPD models.

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