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TMDs and DPDs on the lattice

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While the investigation of TMDs is a major objective of the EIC, Double Parton Ditributions (DPDs) are crucial for a first principle QCD description of double parton interactions at LHC, which contribute to the standard model background for various BSM searches. Both groups of functions are genuinely non-collinear and non-perturbative. The non-collinearity required the development of new concepts, most notably the introduction of soft factors. The soft factors for TMDs and DPDs turned out to be related. Lattice calculations are expected and actually needed to supplement the experimental efforts, e.g. at EIC and LHC but are significantly more difficult than for,e.g. PDFs. The talk will review the present status.

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