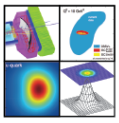

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Lattice QCD calculations of transverse momentum-dependent parton distributions (TMDs)

Tuesday 8 September 2015 11:10 (25 minutes)

An ongoing program of evaluating TMD observables within lattice QCD is reviewed, summarizing recent progress with respect to several challenges faced by such calculations. These lattice calculations are based on a definition of TMDs through hadronic matrix elements of quark bilocal operators containing staple-shaped gauge connections. A parametrization of the matrix elements in terms of invariant amplitudes serves to cast them in the Lorentz frame preferred for a lattice calculation. Results presented include data on the naively T-odd Sivers and Boer-Mulders effects.

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Session Classification: Spin-3D

Track Classification: Spin and 3-d structure