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Theoretical Developments of the LaMET Approach to Parton Physics

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The large-moment effective theory (LaMET) is a systematic approach to extract light-cone parton distributions from equal-time matrix elements, or quasi parton distributions, that are calculable in lattice QCD. Recent years have seen rapid developments in the LaMET approach which have been applied to various lattice calculations and led to much promising progress in this field. In this talk, I will describe the formalism of LaMET and its extension to parton distributions for the transverse structures, which are essential steps in the road map to obtaining the three-dimensional tomography of the nucleon from lattice QCD.

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