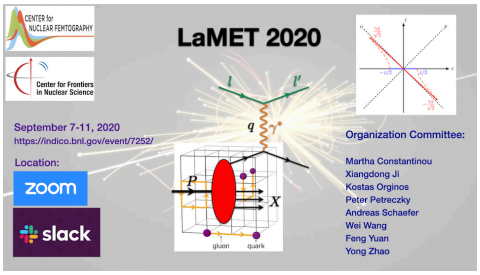

Contribution ID: **23** Type: **not specified**

Transverse momentum dependent factorization for lattice observables

Monday 7 September 2020 10:30 (30 minutes)

I present the derivation of the factorization theorem for the quasi-transverse-momentum-dependent (quasi-TMD) operator, within the soft collinear effective field theory framework. The factorized expression is built from the physical TMD distribution, and a nonperturbative lattice related factor. The lattice related functions cancel in appropriately constructed ratios. These ratios could be used to explore various properties of TMD distributions, for instance, the nonperturbative evolution kernel (Collins-Soper kernel). A discussion of such ratios and the related continuum properties of TMDs is presented.

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