

# 2022 Meeting on Lattice Parton Physics from Large Momentum Effective Theory (LaMET2022)



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## TMD Evolution from Lattice QCD

*Friday, December 2, 2022 9:00 AM (25 minutes)*

I will present a lattice QCD calculation of the nonperturbative Collins-Soper kernel, which describes the rapidity evolution of quark transverse-momentum-dependent parton distribution functions. I will discuss ongoing work to perform the first determination of the Collins-Soper kernel using approximately physical quark masses and various challenges and systematic uncertainties that arise, including power corrections and Fourier transform truncation effects.

**Presenter:** WAGMAN, Michael (Fermilab)

**Session Classification:** Session I