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Collins-Soper kernel from collinear parton correlators

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Inclusive DIS at large Bjorken x is revisited to highlight the importance of tracking off-lightcone effects in the proof of factorization theorems, even collinear ones. In DIS at threshold, in particular, the relevant physics develops around two opposite light-cone directions just like in TMD SIDIS, and the Collins Soper kernel emerges as a universal function in the rapidity evolution of the relevant correlators. The new factorization theorem thus offers a novel avenue for lattice calculations of the Collins-Soper kernel with collinear operators, and bridges different fields and communities.

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