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The time-ordering issue of TMD soft factors

Tuesday 13 August 2024 11:40 (30 minutes)

In this talk I revisit the time-ordering issue of TMD soft factors based on coordinate-space analyticity properties of Wightman functions in Wightman-Osterwalder-Schrader QFTs.

In particular, I show that the TMD soft factor for the DY process in three rapidity regularization schemes can be smoothly connected to each other in a way that maintain certain crucial (S=S_t type) equalities required for lattice applications.

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