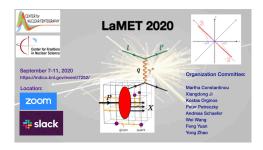Contribution ID: **27**   Type: **not specified**

Connecting quasi and pseudo distributions in nongauge theories

Tuesday 8 September 2020 10:30 (30 minutes)

I explore the explicit relationship between the LaMET and pseudo-PDF approaches to collinear hadron structure in the context of a scalar theory, and demonstrate explicitly their equivalence at one loop in perturbation theory. Scalar field theory removes complications associated with gauge theories that enable complete calculations of all quantities, such as the Ioffe-time distribution at arbitrary field separation, and demonstrate explicitly their interrelationships. This provides the ideal playground for analysing and clarifying the main features of both quasi- and pseudo-PDFs.

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