Partonic properties of the proton involve Minkowski light-front correlations and cannot directly be solved through the standard lattice field theory method. I propose an effective theory approach to obtain light-front physics through calculating the physical properties of the proton at moderately large momenta (boost factor $\gamma = 2\sim5$) on lattice, and expanding them around $\gamma=\infty$. Recent calculations have demonstrated significant potential of this large-momentum effective theory approach.

Friday • January 10, 2020 • 12 PM
Knudsen 4-134