



Contribution ID: 78

Type: **Invited**

Bridge between QCD and Light-Front Quark Model

Thursday, 28 November 2024 11:00 (30 minutes)

I will present a mass gap solution of the 1+1D QCD in the large N_c limit known as the 'tHooft model to discuss a link between QCD and the Light-Front Quark Model (LFQM). I will illuminate the interpolation between the instant form dynamics and the light-front dynamics and discuss its utility in the computation of the parton distribution function (PDF). I will then illustrate the Bakamjian-Thomas construction of the LFQM exemplifying the recent resolution of the light-front zero-mode issue raised about a decade ago regarding the pion transverse momentum distributions (TMDs) beyond the leading twist.

Primary author: JI, Chueng-Ryong (North Carolina State University)

Presenter: JI, Chueng-Ryong (North Carolina State University)

Session Classification: Plenary