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Light-front field theory in the description of hadrons

Monday, August 29, 2016 3:00 PM (30 minutes)

We discuss the use of light-front field theory in the descriptions of hadrons.

In particular, we clarify the confusion in the prevailing notion of the equivalence between the infinite momentum frame and the light-front dynamics and the advantage of the light-front dynamics in hadron physics. As an application, we present our recent work on the flavor asymmetry in the proton sea and identify the presence of the delta-function contributions associated with end-point singularities arising from the chiral effective theory calculation. The results pave the way for phenomenological applications of pion cloud models that are manifestly consistent with the chiral symmetry properties of QCD.

Summary

Session invited talk

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Session Classification: Section B

Track Classification: Section B: Light Quarks