Phenomenology 2023 Symposium



Contribution ID: 26

Type: not specified

1+1D Hadrons Minimize their Biparton Renyi Free Energy

Monday 8 May 2023 14:30 (15 minutes)

I put forward a novel variation method for calculating the mass and PDF of hadrons in 1+1D models. The template functions in our method minimize a Free Energy functional composed of free partons kinetic energy and Renyi entropy of all pairs of partons. Our results suggest hadrons in these models minimize this Free Energy functional. I will comment on extending our calculation to confining theories in higher dimensions and calculating the mass and PDF of their hadrons.

Primary authors: ASADI, Pouya (University of Oregon); VAIDYA, Varun (University of South Dakota)

Presenter: ASADI, Pouya (University of Oregon)

Session Classification: Theory I