Contribution ID: **205** Type: **Poster or pre-recorded talk**

Hadron Structure from Basis Light-front Quantization

Monday 12 July 2021 20:00 (2 minutes)

Basis light-front quantization (BLFQ) provides a nonperturbative framework for solving relativistic many-body bound state problems in quantum field theories. We report our recent progress in applying BLFQ to illuminating structure of the meson and the baryon. We present our results on the meson spectra and other observables such as electromagnetic form factors, PDFs, GPDs and TMDs of the pion and the nucleon, where one dynamical gluon is retained for these systems.

Preferred track

Hadron Structure

Primary author: MONDAL, Chandan

Co-authors: Mr LAN, Jiangshan (Institute of Modern Physics, Chinese Academy of Sciences); Mr XU, Siqi (Institute of Modern Physics, Chinese Academy of Science); Mr FU, Kaiyu (Institute of Modern Physics, Chinese Academy of Sciences); Mr HU, Zhi (Institute of Modern Physics, Chinese Academy of Sciences); ZHAO, Xingbo (Institute of Modern Physics, Chinese Academy of Sciences); VARY, James (Iowa State University)

Presenter: MONDAL, Chandan

Session Classification: Poster Session