Contribution ID: 39

## Preliminary Lattice Calculation of the Pion Light-Cone Distribution Amplitude via the Operator Product Expansion

Friday, 7 August 2020 14:20 (20 minutes)

The moments of the pion light-cone distribution amplitude (LCDA) can be extracted by comparison with the operator product expansion of the pion hadronic tensor with an artificially heavy intermediate quark. We perform a preliminary lattice calculation of this hadronic tensor in the quenched approximation at multiple lattice spacings and use it to extract the continuum limit of the second moment of the pion LCDA. Our results are in agreement with other lattice calculations of the second moment, illustrating the potential of this method.

Primary author: GREBE (\*), Anthony (Massachusetts Institute of Technology)

**Co-authors:** HOPE COLLABORATION; DETMOLD , William; KANAMORI, Issaku; LIN, C-J. David; MON-DAL, Santanu; PERRY, Robert; ZHAO, Yong

Presenter: GREBE (\*), Anthony (Massachusetts Institute of Technology)

Session Classification: Hadron Structure

Track Classification: Hadron Structure