

# 2024 Meeting on Lattice Parton Physics from Large Momentum Effective Theory (LaMET2024)



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## The Baryon LCDA from Lattice QCD

*Wednesday 14 August 2024 10:00 (30 minutes)*

The baryon light-cone distribution amplitudes(LCDAs) are critical inputs for hard exclusive reactions involving large momentum transfer between the initial and final state hadron. We present a lattice calculation for the entire  $x$  dependent baryon LCDA under large momentum effective theory. The numerical simulation is based on ensembles with 2+1 flavor stout smeared clover fermions and Symanzik gauge action at  $0.077\text{fm}$ . Our studies provide a first attempt of a entire two dimensional but one direction light cone distribution with unique matching and other procedures.

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**Session Classification:** Presentations