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The transversity PDF of the nucleon using the pseudo-distribution approach

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The transversity parton distribution function probes the x -dependent difference between quarks with their spins aligned and anti-aligned with the transverse polarization of the nucleon. The chiral-odd nature of the transversity makes it experimentally harder to extract than unpolarized distributions, thereby making the lattice determination crucial. In this talk, we will present results on the lattice computation of the nucleon transversity PDF using the distillation method and by employing the pseudo-distribution approach on an ensemble with the lattice spacing $a=0.094$ fm and 358 MeV pion mass.

Primary authors: Dr KARTHIK, Nikhil (Jefferson Lab and William & Mary); HADSTRUC COLLABORATION

Presenters: Dr KARTHIK, Nikhil (Jefferson Lab and William & Mary); KARTHIK, Nikhil (Thomas Jefferson National Accelerator Facility)

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