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Lattice Boer-Mulders TMDPDF with LaMET

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Transverse-momentum-dependent parton distribution functions (TMDPDFs) are important in revealing the 3D structure of hadrons. Among these distributions, the T-odd Boer-Mulders TMDPDF describes the transversely polarized quark distribution in an unpolarized hadron. Within large-momentum effective theory, we performed a lattice calculation of the nucleon Boer-Mulders function. The calculation was done on the X650 ensemble generated by CLS collaboration with Clover fermion and HYP-smeared gauge links.

Primary author: MA, Lingquan (Beijing Normal University)

Presenter: MA, Lingquan (Beijing Normal University)

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