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LaMET3.0: Precision parton calculations on lattice

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To reliably calculate parton physics on lattice, precision perturbative matching at 1-2 GeV scale is important. To achieve this, one needs to properly resum large longitudinal logs and take into account leading (mass) renormalon contribution. Moreover, threshold resummation in momentum space through SCET formalism is important. Once done, iso-vector valence PDF can be calculated at present to 5 to 10% precision in the intermediate- x region.

Primary author: Prof. Ji, Xiangdong (University of Maryland)

Presenter: Prof. Ji, Xiangdong (University of Maryland)

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