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Lattice Calculation of Parton Distributions

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We present results for our exploratory study for the direct evaluation of the parton distribution functions from lattice QCD. We present encouraging results using $N_f = 2 + 1 + 1$ twisted mass fermions with a pion mass of about 370 MeV, for unpolarized and polarized nonsinglet distributions. We also test the effect of gauge link smearing in the operator to estimate the influence of the Wilson line renormalization, which is yet to be done.

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