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Nucleon generalized form factors from lattice QCD with nearly physical quark masses

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We show results of generalized form factors of the nucleon from lattice simulations with $N_f = 2$ mass-degenerate non-perturbatively improved Wilson-Sheikholeslami-Wohlert fermions down to a pion mass of 150 MeV. We also present the resulting isovector quark angular momentum. Possible excited state contaminations are treated with correlated simultaneous fits to all 3pt functions of a given ensemble with fixed momentum transfer squared.

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