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Nucleon Vector and Axial-Vector Form Factors

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We present the status of the calculation of the nucleon iso-vector axial and vector form factor using the MILC $N_f = 2 + 1 + 1$ HISQ ensembles with lattice spacings $a = 0.12, 0.09,$ and 0.06 fm and three values of light quark masses corresponding to pion masses 310, 220, 130 MeV. Valence quarks are simulated with the clover action. A number of techniques to increase the statistics cost effectively, such as the AMA (all-mode-averaging) method, will be discussed.

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