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## Nucleon Vector and Axial-Vector Form Factors

*Thursday, July 28, 2016 3:00 PM (20 minutes)*

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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