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The Nucleon Axial Form Factor from HISQ

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The nucleon axial form factor is a dominant contribution to errors in neutrino oscillation studies. Lattice calculations have the potential to make an impact on controlling theory errors by disentangling the effects of nuclear corrections and nucleon form factors. In this talk, I will present preliminary results on a blinded calculation of g_A and the axial form factor using HISQ staggered baryons with 2+1+1 flavors of sea quarks. Calculations are done using physical light quark masses and are absolutely renormalized. Results are fit using the model-independent z-expansion parameterization and systematic errors are quantified.

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