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Improving the Feynman-Hellmann Method

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The Feynman-Hellmann method, as implemented by Bouchard et al. [1612.06963], has recently been used successfully to determine the nucleon axial charge. A limitation of the method was the restriction to a single operator and a single momentum during the computation of each "Feynman-Hellmann" propagator. Here we discuss enhancements to the method that relax this constraint and we demonstrate the successful implementation of the improved version with a reproduction of the axial charge on a test ensemble.

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