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## Pion nucleon excited state effects in nucleon observables

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Calculations of nucleon charges and form factors have reached a level of precision requiring a more precise accounting of the contribution of excited states in both the two and three point functions. Recently, it was suggested that the excited states that are suppressed in two-point function may be enhanced in certain three point functions. Such an enhancement increases when using lattice simulations at the physical point where  $\pi N$  states form a dense spectrum. In this work we include two hadron interpolating fields and perform a variational analysis to obtain the first few energy levels in the  $I = 1/2, I_3 = +1/2$  channel at physical pion mass.

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