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Nucleon Matrix Elements at Physical Point and Cost Comparison

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I shall report on calculations of isovector matrix elements of the nucleon, such as g_A , g_s , and $\langle x \rangle$ on the $48^3 \times 96$ lattice with pion mass at 139 MeV and lattice size of 5.5 fm. We employ overlap valence fermion on the 2+1 flavor DWF configurations for the calculation. Also reported will be the strange quark momentum fraction and its magnetic moment from this lattice.

A comparison of the cost of such calculations with those of the twisted mass fermion, clover fermion, and

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