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Disconnected quark loop contributions to nucleon observables using $N_f = 2$ twisted clover fermions at a physical value of the light quark mass

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We compute the disconnected quark loops contributions entering the determination of nucleon observables, by using an $N_f = 2$ ensemble of twisted mass fermions with a clover term at a pion mass $m_\pi = 130$ MeV. We employ exact deflation and implement all calculations in QUDA, enabling us to achieve large statistics and a good signal.

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