Nucleon structure using lattice QCD: Moments of generalized parton distributions

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The simulation of Quantum Chromodynamics (QCD) with close to physical values of the pion mass, small lattice spacings and large volumes has recently become feasible. This opens a new era for lattice QCD in providing theoretical input in phenomenologically interesting quantities. After a short introduction on state-of-the-art lattice calculations we will review lattice QCD results on nucleon moments of generalized parton distributions.