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Probing hadron structure by high energy scattering processes

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Protons and neutrons are known to be the building blocks of matter, and also known to be the bound states of quarks and gluons - the partons, whose dynamics is best described by Quantum Chromodynamics (QCD). QCD has been very successful in interpreting and predicting high-energy scattering processes and in extracting the information on short-distance QCD dynamics. In this talk, I will review the progress in probing hadron structure by using high energy scattering processes. In addition to probing parton momentum and helicity distribution functions, I will discuss possibilities and progresses to probe parton's transverse motion and multiparton quantum correlations inside a hadron by using various QCD high energy scattering processes.