

"Mini Symposium on Nucleon Spin Structure and Lattice QCD"

Title:

Lattice Generalized Parton Distributions of Nucleon and Form Factors

Abstract:

In this talk we will discuss recent progress in nucleon structure using Lattice QCD simulations at or near to the physical value of the pion mass. Main focus will be given in observables such as the nucleon axial charge and the first moments of parton distributions, for both the valence and sea quark contributions, and discuss their implications on the spin content of the nucleon. We will highlight developments on the evaluation of the gluon momentum fraction, and updates on a new direct approach to compute quark parton distributions functions on the Lattice.