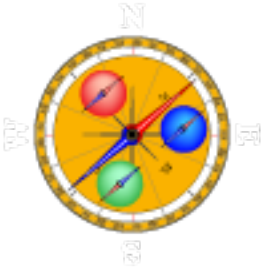

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Partonic dynamics and the 3D structure of the nucleon: a global view

Monday, 11 December 2017 09:15 (40 minutes)

Hadrons emerge as strongly interacting, relativistic bound states of quarks and gluons in Quantum Chromodynamics (QCD), and have complex dynamical internal structure, which are only beginning to be revealed in modern experiments. Since no modern detector can see quarks and gluons in isolation, it is an unprecedented intellectual challenge to "see"and quantify the partonic dynamics and 3D hadron structure. In this talk, I will provide a global view on what have we learned about the hadron structure? how to quantify the hadron structure? and what do we expect to learn in a near future with the existing and future facilities, as well as from lattice QCD?

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