Area Seminar

Title	Quark and Gluon Angular Momenta Contributions to Nucleon Spin (?QCD Collaboration)
Date and Time	07/03/2013 16:00:00
Speaker	Dr. Mridupawan Deka JINR, Dubna, Russia
Area	Theoretical Physics
Venue	Room No. 469
Abstract	The nucleon spin structure has been a longstanding issue in hadronic physics,both experimentally and theoretically. From the polarized Deep Inelastic Scattering experiments and Lattice QCD calculations, it has been found that the contribution coming from the quark spin is rather small (~25%). Now, it is widely accepted that the rest of the nucleon spin should come from the gluon spin and the orbital angular momenta of quarks and gluons. In this talk, I will present a complete Lattice QCD calculation of the quark and glue angular momenta inside a proton. The calculation is carried out on a 16^3 24 quenched lattice using the standard Wilson action.