LHC Seminar

SPEAKER: Jiangyong Jia (State University of New York and Brookhaven National Lab)

TITLE: **What do recent ATLAS measurements tell us about the dynamics and properties of quark-gluon plasma?**

DATE: Tue 13/10/2015 11:00

PLACE: Main Auditorium

ABSTRACT

To understand the space-time dynamics and properties of the quark-gluon plasma (QGP), a new state of matter existing at high temperatures formed in relativistic heavy ion collisions, ATLAS has conducted measurements of a large number of observables in lead-lead collisions at the LHC. To further understand these data, similar measurements have also been carried out in proton-lead and proton-proton collisions. In this talk, ATLAS studies with these data addressing some key questions about QGP will be presented. These include
- What are the behaviours and properties of the QGP at both long and short wavelengths?
- Do we understand the initial conditions and rates of hard-probes prior to the formation of the QGP?
- What is the smallest droplet of QGP created in these collisions?</p>

Organised by: M. Mangano, C. Lourenco, G. Unal.....
Tea and Coffee will be served at 10h30