

**Title:** From Heavy-Ion Collisions to Quark Matter

**Lecturer:** Dr Carlos Lourenco

**Date and Times:**

- 6<sup>th</sup> August at 9:15
- 7<sup>th</sup> August at 10:15
- 8<sup>th</sup> August at 10:15

**Summary of the proposed talk:**

Overview of the experimental activity going on at CERN (SPS and LHC) and at RHIC in view of studying the properties of QCD matter (quark gluon plasma) at high temperatures and densities, through the study of heavy-ion collisions at very high energies.

**Prerequisite knowledge and references:**

None

**Biography-  
Brief CV:**

- 1985: CERN summer student
- 1994: CERN Research Fellow
- Since 1996: Research Physicist, CERN, PH Department
- 1999-2005: Spokesperson of the NA60 Collaboration
- Since 2006: Member of CMS

Main areas of scientific research: Phase transition from hadronic to deconfined QCD matter, in high-energy heavy-ion collisions; Dilepton, quarkonia and heavy flavour hadroproduction