

Università degli Studi di Trieste

Dipartimento di Fisica

Seminario

Jihye Song

Heavy Ion Physics Experiment Lab, Pusan National University, South Korea

Monday, October 16, 2.30 PM – Meeting Room, F building, Dip. di Fisica – via Valerio 2 – Trieste

Study of the Quark Gluon Plasma in the light-flavour sector at the LHC with the ALICE experiment.



ALICE is one of the four experiments at the Large Hadron Collider (LHC) at CERN. Its main aim is the study of the Quark Gluon Plasma (QGP), a high temperature and density medium in which quarks and gluons are no longer confined into hadrons. The QGP conditions are similar to those of the very early Universe. According to the calculations of Quantum Chromo Dynamics (QCD) on the lattice, under the conditions of high energy density and temperature reached in the ultra-

relativistic heavy-ion collisions, the phase transition to a QGP can occur. It is interesting to study how the QGP expands and cools, observing how it progressively gives rise to the particles that constitute the matter that we know, with quarks and gluons confined into hadrons. In this talk, the recent ALICE results on the light-flavor production will be presented, focusing in particular on what we can learn from them about the QGP properties.



Organizzazione a cura di: E. Fragiaco, E. Vesselli

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Everyone interested in the topic is welcome to attend

Informazioni: seminari@ts.infn.it