



MARIA LUCIA
SAMBATARO

HEAVY QUARKS DYNAMICS IN THE QUARK-GLUON PLASMA

The main goal of the ongoing heavy-ion collisions performed at Relativistic Heavy Ion Collider (RHIC) and Large Hadron Collider (LHC) is the study of a state of matter consisting of deconfined quark and gluons named Quark-Gluon Plasma (QGP). Heavy quarks, namely charm and bottom, thanks to their large masses, are considered as a solid probe to characterize the QGP phase. Within an event-by-event relativistic Boltzmann transport approach, we investigate the main observables in heavy flavour sector such as the nuclear modification factor R_{AA} and anisotropic flows V_n of both D and B mesons toward a solid determination of the spatial diffusion coefficient D_s , one of the most significant parameter which furnishes a quantitative estimate of the HQs-plasma interaction.

ESPRESSO SEMINARS

25 MARZO 2024 | ORE 15:00

AULA AZZURRA - LNS

