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Experimental Overview on Heavy Flavour in Heavy-ion collisions

Thursday 11 July 2024 09:00 (40 minutes)

Quantum Chromodynamics (QCD) predicts a deconfined state of quarks and gluons: Quark Gluon Plasma (QGP). Studying the transport and medium properties of QGP greatly deepens our understanding of the strong interaction. Heavy quarks created from the hard scatterings in heavy-ion collisions are golden probes of the medium, by providing insights into in-medium energy loss, diffusion behaviors and hadronization mechanisms in the unique kinematic phase space. It is a great time to look back on what have been learned from heavy flavour, and embrace the new data and new experiments at LHC and RHIC.
In this talk, I will discuss the recent fruitful experimental studies of open heavy flavour in heavy-ion collisions and the perspectives for the future experiments.

session

F. Heavy Flavor and Quarkonia

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