

Comparative Study of Quarkonium Transport in Hot QCD Matter

Friday, 19 January 2024 16:45 (50 minutes)

This talk summarizes the efforts of the EMMI Rapid Reaction Task Force on “Suppression and (re)generation of quarkonium in heavy-ion collisions at the LHC”, centered around their 2019 and 2022 meetings. It provides a review of theoretical approaches, and semi-classical and quantum approaches for the dynamical evolution of quarkonia in the quark-gluon plasma as probed in high-energy heavy-ion collisions. Key ingredients of the transport models are reminded, such as reaction rates, binding energies, and nuclear modification factors. A diagnostic assessment of the various results is attempted and coupled with an outlook to the future

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