

Heavy quarkonia in a quark-gluon plasma: coupled evolution and dynamics

We consider the possibility that heavy quarkonia admit different bound states in a QGP, between which they can transition dynamically. We show that the vacuum mass eigenstates are not the relevant eigenstates for the in-medium dynamics. This leads in particular to abundance ratios of the various states which deviate from the predictions of static models. Additionally, the quarkonium dynamics differ from that of states with a definite mass.

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