

XXV DAE-BRNS High Energy Physics Symposium 2022



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On the nature of a thermal potential for QGP

Thursday 15 December 2022 14:00 (1 hour)

While quarkonia (quark-antiquark systems of charm and bottom) provide some of the most interesting probes of a deconfined quark-gluon plasma, a QCD-based theoretical study of them is nontrivial. An effective thermal potential can be constructed, but its nature and properties are very different from the corresponding vacuum potential.

I will critically examine the interpretation and scope of the effective thermal potential. I will present results from our recent study of the potential, and discuss what they say about the behavior of a heavy quark-antiquark pair in the plasma.

Session

Heavy Ions and QCD

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