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Nuclear Theory

Heavy quarks and the collective properties of hot QCD

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After reviewing the evidence that QCD matter at ultrarelativistic energies behaves as a very good fluid, we describe the connection of QCD fluidity to heavy quark observables. We review the way in which heavy quark spectra can place tighter limits on the viscosity of QCD matter. Finally, we show that correlations between flow observables and the event-by-event charm quark abundance ("flavoring") can shed light on the system's equation of state.

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