



Contribution ID: 1289

Type: Parallel Talk

Transport coefficients of heavy mesons in a thermal medium

Thursday, 7 July 2022 16:10 (15 minutes)

We have investigated the many-body equations of D and \bar{B} mesons in a thermal medium by applying an effective field theory based on chiral and heavy-quark spin symmetries. Exploiting these symmetries within the kinetic theory, we have derived an off-shell Fokker-Planck equation which incorporates information of the full spectral function of these states.

I will present the latest results on heavy-flavor transport coefficients below the chiral restoration temperature. I will also detail the origin of the in-medium reactions which contribute to the heavy-meson thermal width and energy loss, including the soft-pion emission (Bremsstrahlung) process.

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In-person participation

No

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Session Classification: Heavy Ions

Track Classification: Heavy Ions