Contribution ID: **76** Type: **Invited Talk**

Thermal effects on open heavy-flavor mesons

Thursday, 16 September 2021 14:45 (15 minutes)

We have investigated the thermal effects on the properties of open heavy-flavor mesons using a unitarized effective hadronic theory in coupled channels based on chiral and heavy-quark symmetries at finite temperature below Tc within the imaginary-time formalism. The in-medium amplitudes of the scattering of the heavy mesons with the light mesons and the ground-state self-energies and spectral functions are calculated in a self-consistent manner. I will present our findings for the thermal masses and widths of the open heavy-flavor ground states, as well as for the dynamically generated states [1]. I will also show our results for the meson Euclidean correlators obtained from the thermal spectral functions and their comparison with lattice QCD simulations [2]. In addition I will show our recent calculations of transport coefficients below Tc [3].

Presenter: MONTANA, Gloria (University of Barcelona, Institute of Cosmos Sciences (ICCUB))

Session Classification: Oral Presentations