Contribution ID: **63** Type: **Oral presentation**

Heavy quark diffusion coefficient from the lattice

Wednesday 27 July 2022 11:50 (25 minutes)

The heavy quark diffusion coefficient is encoded in the spectral functions of the chromo-electric and the chromo-magnetic correlators, of which the latter describes the T/M contribution. We study these correlators in the deconfined phase of SU(3) gauge theory on the lattice using the gradient flow. We perform both continuum and zero flow time limits to extract the heavy quark diffusion coefficient at a few different temperatures.

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Session Classification: Session