



Contribution ID: 121

Type: **Parallel**

Heavy quark diffusion coefficient from lattice

Wednesday 19 June 2019 11:50 (20 minutes)

We report progress towards measuring heavy momentum diffusion coefficient from a correlator of colour electric fields attached to a Polyakov loop in pure SU(3) gauge theory. Using a multilevel algorithm and tree-level improvement, we study the behavior of the diffusion coefficient as a function of temperature in a range $1.5 < T/T_c < 15$ in order to compare it to the perturbative expansions existing at high temperature.

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Session Classification: Nonzero Temperature and Density

Track Classification: Nonzero Temperature and Density