

XVth Quark Confinement and the Hadron Spectrum



Contribution ID: 302

Type: Oral

The spectral reconstruction problem for thermal photon and dilepton rates

Monday 19 August 2024 17:30 (30 minutes)

Thermal photon and dilepton rates are central probes for understanding the quark-gluon plasma and QCD at high temperatures. As a consequence there is a strong interest to determine them using lattice QCD calculations. However, this is made difficult as they are related to thermal spectral functions that are not directly accessible through lattice calculations. Instead they are indirectly obtainable through performing an inverse Laplace-type transformation of Euclidean time lattice correlation functions. In this talk we will present recent results in dynamical QCD with a focus on advancements in spectral reconstruction from lattice data.

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Session Classification: Deconfinement

Track Classification: D: Deconfinement