

On loop corrections to the dilepton rate

Tuesday, 5 November 2013 15:10 (20 minutes)

A novel next-to-leading order analysis of the dilepton production rate from a hot QCD plasma is reported. The photon invariant mass is taken to be in the range $K^2 \sim (\pi T)^2$; subsequently the results are compared with an OPE computation in a hard regime $K^2 \gg (\pi T)^2$, with an LPM resummed computation in a soft regime $K^2 \ll (\pi T)^2$, as well as with recent lattice simulations in the Euclidean domain.

Primary author: Mr LAINE, Mikko (University of Bern)

Presenter: Mr LAINE, Mikko (University of Bern)

Session Classification: Hard and Thermal Electroweak Probes

Track Classification: Hard and Thermal Electroweak Probes