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On loop corrections to the dilepton rate

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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

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