



Contribution ID: 145

Type: Oral presentation

Perturbative peculiarities of quantum fields at non-zero temperature

Friday, 6 July 2018 12:00 (30 minutes)

Revisiting the fast fermion damping rate calculation in a thermalized QED and/or QCD plasma in thermal equilibrium at 4-loop order, focus is put on a peculiar perturbative structure which has no equivalent at zero-temperature. Not surprisingly, and in agreement with previous C-star-algebraic analyses, this structure renders the use of thermal perturbation theory more than questionable.

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Session Classification: Special session on QCD