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## INFRARED BEHAVIOR OF DISPERSION RELATIONS IN HOT QCD AND SCALAR QED



Condition: New. Publisher/Verlag: Scholar&apos;s Press | In this book, we calculate: (i) The damping rate of ultrasoft gluons in the context of hard-thermal-loop summed perturbation of massless quantum chromodynamics (QCD) at high temperature. (ii) The damping rate and energy of ultrasoft scalars in the context of massless scalar quantum electrodynamics (scalar QED) at high temperature too. In the case of QCD, an expansion in powers of the ultrasoft external momentum is used, before the Matsubara sums are done. The persistence...

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