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Plasmon mass scale in out of equilibrium classical Yang-Mills theory

The prethermal evolution of heavy-ion collisions is usually studied by classical real-time lattice simulations. Above the Debye scale the classical theory can be matched smoothly to kinetic theory. We study the limits of the quasiparticle picture of the CYM fields by determining the plasmon mass of the system with different methods, including the effective dispersion relation, hard thermal loop formula in terms of the quasiparticle distribution and oscillations between electric and magnetic energy.

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