

Hot gluons on the lattice: how do gluons propagate in a hot and non-dense medium?

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The gluon propagator at finite temperature is investigated via lattice simulations focusing on the volume and lattice spacing dependence and its interpretation as a massive-type bosonic propagator. Moreover, we compute the corresponding spectral density and study the violation of spectral positivity. Finally, we explore the dependence of the gluon propagator on the phase of the Polyakov loop.

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