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Lattice Landau gauge gluon propagator at finite temperature: non-zero Matsubara frequencies and spectral densities

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The lattice Landau gauge gluon propagator at finite temperature is computed including the non-zero Matsubara frequencies. Furthermore, the Källén-Lehmann representation is inverted and the corresponding spectral density evaluated using a Tikhonov regularisation together with Morozov discrepancy principle. Implications for gluon confinement are also discussed.

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