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## Lattice QCD estimate of the quark-gluon plasma photon emission rate

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We estimate the photon emission rate of the quark-gluon plasma in lattice QCD. At leading order in the electromagnetic coupling, the photon rate is proportional to the vector-channel spectral function evaluated on the light cone. The determination of the spectral function from lattice correlator data represents an ill-posed problem, which we address by introducing a Padé ansatz for the spectral function. We measure on the lattice a newly-proposed correlation function, suggesting physics-motivated constraints on the parameters of the Padé ansatz. A previous analysis conducted at fixed spatial momentum provided preliminary constraints on the value of the photon rate. We present new results obtained by a simultaneous analysis of data at different spatial momenta.

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