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Charmonium spectra and dispersion relation with improved Bayesian analysis in lattice QCD

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We study the charmonium property at finite temperature and finite momentum in quenched lattice QCD with improved maximum entropy method (MEM). We extend the MEM analysis to the product space of the correlation functions at more than two different momenta to take advantage of more data and the strong correlation among Euclidean correlators with different momenta. We find that this method drastically improves the error of the reconstructed spectral images. We apply this method to analyze the dispersion relation of charmonia at finite temperature.

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