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Transverse and longitudinal spectral functions of charmonia at finite temperature with maximum entropy method

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We study the charmonium spectral functions with finite momentum from lattice Euclidean correlators using the maximum entropy method. In medium, the spectral function of vector channel with finite momentum is decomposed into transverse and longitudinal components because of the lack of Lorentz invariance. We investigate these spectral functions, their residues and the dispersion relations on the quenched lattice below and above the critical temperature.

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