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Charmonium spectral functions from large quenched lattice QCD

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We present our most updated results on the charmonium correlation and spectral functions. The correlation functions are obtained using the clover improved Wilson fermions on quenched lattices with spatial size fixed to 192. And temporal sizes of these lattices are chosen to be 96, 64, 56, 48 and 32 corresponding to 0.73, 1.1, 1.25, 1.5 and 2.2 T_c . We perform a detailed analysis of these charmonium correlators using two different stochastic approaches, namely Stochastic Analytical Inference (SAI) and Stochastic Optimization Method (SOM) to extract the spectral functions. The systematic uncertainties in spectral functions obtained from SOM and SAI will be discussed, and the comparisons with those from Maximum Entropy Method (MEM) also will be presented.

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