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Charmonium correlation and spectral functions at finite temperature

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We investigate the charmonium correlators and spectral functions in quenched QCD, using Clover improved Wilson fermions on very fine (0.01 fm) isotropic lattices at $0.75 T_c$ ($128^3 \times 96$) and $1.5 T_c$ ($128^3 \times 48$). We focus on the thermal modification of the correlation and spectral functions. The charmonium dissociation temperature as well as the heavy quark diffusion constant are discussed.

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talk

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