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The finite temperature QCD transition

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We extend our previous two studies on the finite temperature cross-over of QCD. We chose even finer lattices ($N_t=16$) and work with physical quark masses. The new results are in complete agreement with our earlier ones. We compare our findings with the published results of the hotQCD collaboration (obtained with the asqtad and p4 actions with $N_t = 8$). All these results are confronted with the predictions of the Hadron Resonance Gas model and Chiral Perturbation Theory, both with the physical and with a modified spectrum which takes into account lattice discretization effects.

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talk

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