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QCD thermodynamics at nonzero isospin asymmetry

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We study the thermodynamic properties of QCD at nonzero isospin chemical potential using improved staggered quarks at physical quark masses. In particular, we will discuss the determination of the equation of state at zero and nonzero temperatures and show results towards the continuum limit. Based on the results for the isospin density n_I, the phase diagram in the (n_I, T)-plane will also be discussed.

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