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Resummed lattice QCD equation of state at finite baryon density: strangeness neutrality and beyond

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In this talk we present a resummation of the QCD equation of state from lattice simulations at imaginary chemical potentials. We utilize a generalization of the scheme introduced in 2102.06660, moving to the case of non-zero strangeness chemical potential. We present continuum extrapolated results for thermodynamic observables in the temperature range 130 MeV $\leq T \leq$ 280 MeV, for chemical potentials up to $\mu_B/T = 3.5$, along the stangeness neutral line. We also extrapolate beyond strangeness neutrality to small values of the strangeness-to-baryon-number ratio $R = n_S/n_B$.

Present via

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