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QCD's equation of state from Dyson-Schwinger equations

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We summarize a truncation-independent method to compute the equation of state within functional continuum approaches. First, its viability and reliability is demonstrated using a two-flavor Nambu-Jona-Lasinio model in mean-field approximation. Second, the method is applied to solutions obtained from a set of truncated Dyson-Schwinger equations for the nonperturbative quark and gluon propagators of (2+1)-flavor QCD to obtain the pressure, entropy density, energy density, and interaction measure across the phase diagram of QCD.

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