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Type: **Parallel Talk**

Equation of state at finite density from the lattice

Wednesday, May 16, 2018 11:50 AM (20 minutes)

A new precision lattice simulation set is analyzed for the equation of state to sixth order. We discuss the role of strangeness neutrality and the range of validity of the extrapolation strategy. We calculate the pressure, trace anomaly, energy and entropy density and the baryon number in the range up to $\mu/T < 2$. We achieve improved precision by combining the technique of analytical continuation from imaginary chemical potentials with the direct calculation of high order μ -derivatives.

Content type

Theory

Collaboration

Wuppertal-Budapest collaboration (lattice)

Centralised submission by Collaboration

Presenter name already specified

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