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A new theoretical method for lattice QCD calculations at finite density beyond the sign problem

Tuesday 9 May 2017 09:00 (30 minutes)

We propose a new theoretical method for the practical lattice QCD calculation at finite density as a possible solution of the sign problem in finite-density QCD. In this method, the fermionic determinant becomes real and non-negative, and therefore no sign problem appears and the practical numerical calculation can be performed in lattice QCD.

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