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Current status and perspectives of complex Langevin calculations in finite density QCD

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Monte Carlo studies of finite density QCD is difficult due to the notorious sign problem. As a promising approach that can avoid this problem, the complex Langevin method has been attracting attention. In particular, a practical criterion for correct convergence has been proposed, and it is found to be satisfied in certain parameter regions of finite density QCD. In this talk I will summarize our results obtained so far and discuss what one can do using this method.

Primary author: Prof. NISHIMURA, Jun (KEK)

Presenter: Prof. NISHIMURA, Jun (KEK)

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