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Alternatives to the stochastic ”noise vector” approach

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Several important observables, like the quark condensate and the Taylor coefficients of the QCD pressure with respect to the chemical potential, are based on the trace of the inverse Dirac operator or its powers. Such traces are traditionally estimated with “noise vectors”. We explore alternative approaches based on polynomial approximations of the inverse Dirac operator.

Primary author: JAEGER, Benjamin (ETH Zurich)

Co-author: Mr DE FORCRAND, Philippe (ETH Zurich & CERN)

Presenter: JAEGER, Benjamin (ETH Zurich)

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