

Simulations of gaussian systems in Minkowski time

Friday, July 27, 2018 2:20 PM (20 minutes)

Many research programs aiming to deal with the sign problem were proposed since the advent of lattice field theory. Several of these try to achieve this by exploiting properties of analytic functions. This is also the case for one of the approaches we're developing. There auxiliary complex variables are introduced and desired weight is obtained after integrating them out. In this talk I will elucidate difficulties previously present in this method. Applications to gaussian path integrals directly in Minkowski time shall be reviewed.

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Session Classification: Theoretical Developments

Track Classification: Theoretical Developments