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Monte Carlo study of Schwinger model at finite density

Tuesday 25 April 2023 16:20 (20 minutes)

The Schwinger model (QED in one spatial dimension) is known as a toy model of QCD. We perform a Monte Carlo study of the Schwinger model at finite density. We circumvent the notorious sign problem by using the bosonization technique. We find that the number density is a smooth function of the chemical potential. This talk is based on arXiv:2303.05481 [hep-lat].

Theory / experiment

Theory

Group or collaboration name

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