



Contribution ID: 124

Type: **Talk**

Reweighting trajectories from the complex Langevin method

Tuesday, July 26, 2016 6:10 PM (20 minutes)

We introduce the reweighted complex Langevin method, which enlarges the applicability range of the complex Langevin method by reweighting the complex trajectories. In this reweighting procedure both the auxiliary and target ensembles have a complex action. We validate the method by applying it to a random matrix model for QCD and to two-dimensional strong-coupling QCD, both at nonzero chemical potential, and observe that it gives access to mass regions that could otherwise not be reached with the complex Langevin method.

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Session Classification: Nonzero Temperature and Density

Track Classification: Nonzero Temperature and Density