



Contribution ID: 15

Type: **Parallel Talk**

Density of States for Observables. A derivative method.

Wednesday, 2 August 2023 09:00 (20 minutes)

The density of any observable is equal to how large a volume there exist for each possible value of the observable. By considering the relative change to the volume along the direction of change of the observable, the relative change to the density of the observable can be obtained. I will show how one can calculate the change to the log of the density function ρ and use this to calculate several observables, which in some cases like wilson line correlators can give errorbars 4 times smaller than standard methods.

Topical area

Algorithms and Artificial Intelligence

Primary author: LARSEN, Rasmus (University of Stavanger)

Presenter: LARSEN, Rasmus (University of Stavanger)

Session Classification: Algorithms and Artificial Intelligence