



Contribution ID: 386

Type: **Talk**

Multilevel algorithm for glueball calculations

Thursday, 1 August 2024 10:20 (20 minutes)

In this talk I will present the main results of our recent use of multilevel sampling to more efficiently reduce the error of glueball two-point functions in pure gauge theory. I will then discuss how multilevel can be combined with distillation techniques for quenched QCD simulations. In particular, I will present some preliminary results for disconnected contributions of two-pion correlation functions that enter into the analysis of glueball-meson mixing.

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Session Classification: Algorithms and artificial intelligence

Track Classification: Algorithms and Artificial Intelligence