

Lattice 2024



Contribution ID: 496

Type: **Talk**

Real time simulations on the lattice: quantum, classical, and in between

Thursday 1 August 2024 14:35 (30 minutes)

The real time dynamics of quantum (field) systems is well suited for lattice implementation, although standard Monte-Carlo methods must be adapted, supplemented or even replaced by other approaches. I will attempt to give an overview of some of these, focussing on how they relate to each other and when each of them may be expected to give reliable results. Relevant keywords include Classical Statistical, 2PI/Schwinger-Dyson, Complex Langevin and Lefschetz Thimbles. The talk is meant to be a pedagogical introduction rather than a complete review.

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Session Classification: Plenary

Track Classification: Plenary - by invitation only