



Contribution ID: 328

Type: **Talk**

Digitised Hamiltonian $SU(2)$ Gauge Theories at Weak Couplings

Thursday, 1 August 2024 12:10 (20 minutes)

Hamiltonian Simulations of non-abelian lattice gauge theories promise new insights into multiple areas of QCD. To run numerical simulations, the operators contained in the Kogut Susskind Hamiltonian need to be discretised. While this is a mostly solved problem at strong couplings, simulations in the weak coupling limit remain tricky. In this talk, we report on our ongoing efforts to find a discretization scheme suitable for simulations at weak couplings.

Primary authors: URBACH, Carsten (University of Bonn); OSTMEYER, Johann (Bonn University); JANSEN, Karl (DESY); GAROFALO, Marco (University of Bonn); ROMITI, Simone (University of Bern); JAKOBS, Timo (University Bonn); HARTUNG, Tobias (King's College London)

Presenter: JAKOBS, Timo (University Bonn)

Session Classification: Algorithms and artificial intelligence

Track Classification: Algorithms and Artificial Intelligence