New Frontiers in Theoretical Physics - XXXV Convegno Nazionale di Fisica Teorica and GGI 10th anniversary



Contribution ID: 4

Type: not specified

Dual formulation of lattice field theory

Thursday, 19 May 2016 15:20 (40 minutes)

In recent years considerable progress was made with exactly rewriting lattice field theories in terms of dual variables. These variables are loops for matter fields and surfaces for the gauge degrees of freedom. In terms of the dual variables we can access problems with Monte Carlo simulations that are not tractable in the conventional formulation, in particular systems with chemical potential and models with a vacuum angle. I give an overview over the dual approach and discuss some of the new results.

Primary author: GATTRINGER, Christof (University of Graz)Presenter: GATTRINGER, Christof (University of Graz)Session Classification: Plenary 19 pm