



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.

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**Session Classification:** Plenary 19 pm