



Contribution ID: 309

Type: **Talk**

## Lattice simulation of the SU(2)-chiral model at zero and non-zero pion density

*Thursday, 16 July 2015 11:00 (20 minutes)*

We present a flux representation based lattice formulation of the partition function corresponding to the SU(2)-chiral Lagrangian, including a chemical potential and scalar/pseudo-scalar source terms. Lattice simulations are then used to obtain non-perturbative properties of the theory, in particular its mass spectrum at zero and non-zero pion density.

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**Session Classification:** Nonzero Temperature and Density

**Track Classification:** Nonzero Temperature and Density