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

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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.

Primary author: Mr RINDLISBACHER, Tobias (ETH Zurich)
Co-author: DE FORCRAND, Philippe (ETH Zurich & amp; CERN)
Presenter: Mr RINDLISBACHER, Tobias (ETH Zurich)
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