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Transfer Matrix for Partially Quenched QCD

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Partially quenched lattice QCD is defined in euclidean space, and usually considered not be unitary. This raises the question whether effective field theory methods, such as chiral perturbation theory, can be justified in the partially quenched case. In this talk, we take a first step, in which we construct a transfer matrix for the ghost sector of partially quenched theories. While this leads to a nonhermitian hamiltonian, we show that the eigenvalues of this hamiltonian have positive real part.

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talk

Primary author: GOLTERMAN, Maarten (San Francisco State University)

Co-author: Prof. BERNARD, Claude (Washington University)

Presenter: GOLTERMAN, Maarten (San Francisco State University)

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