

Abstract Submitted
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Quantum Information Aspects of Cold Fermi Systems RAZVAN TEODORESCU, Los Alamos National Laboratory — In the limit of fast switching of Feshbach resonance in cold fermionic systems, the dynamics is dominated by non-linear, coherent, multi-frequency quantum oscillations of the order parameter. This theoretical model is very rich and has known connections to several quantum field theories. In this talk, I will analyze the problem from the point of view of quantum information theory and indicate possible practical applications of the fast-switching regime.

Razvan Teodorescu
Los Alamos National Laboratory

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