

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.

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