**New Spin Echo Phenomena Arising from Strong Pi-Pulses** RONA
RAMOS, YANQUN DONG, DALE LI, SEAN BARRETT, Yale University — The
application of average Hamiltonian theory to multiple pulse NMR experiments using
finite pulses will be discussed. Through this analysis, we are able to explain an
observed pulse phase sensitivity and develop new pulse sequences that exploit and
enhance these finite pulse effects. Experiments in both the strong and weak coupling
limits will be shown.

Dale Li
Yale University

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