Quantum Simulation of Parameter-Averaged NMR Experiments

Abstract: Solid-state NMR and EPR spectroscopy are widely used tools in biology and chemistry. Interpreting these experiments, however, often requires fitting to simulations of the system's spin dynamics, a task made computationally challenging due to the large ensembles of parameters that must be averaged over. I will discuss how quantum simulators may facilitate this task, presenting protocols for parameter-averaged simulations of the relevant spin dynamics.

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