

Main
Function

Solve 7-level dynamics

Initialise 3-level
Hamiltonian $\hat{H}^{(3)}$

Call *fminsearch*
minimise $\overline{\Delta x}$

Solve dynamics
for optimised $\hat{H}^{(3)}$

Define variable 3-level
Hamiltonian

Vary $\hat{H}^{(3)}$ parameters -
solve 3-level dynamics

Compute average difference $\overline{\Delta x}$
between 3-level/7-level $|\Psi_8(t)|^2$

Output optimised $\hat{H}^{(3)}$

Hamiltonian
iteration
function

