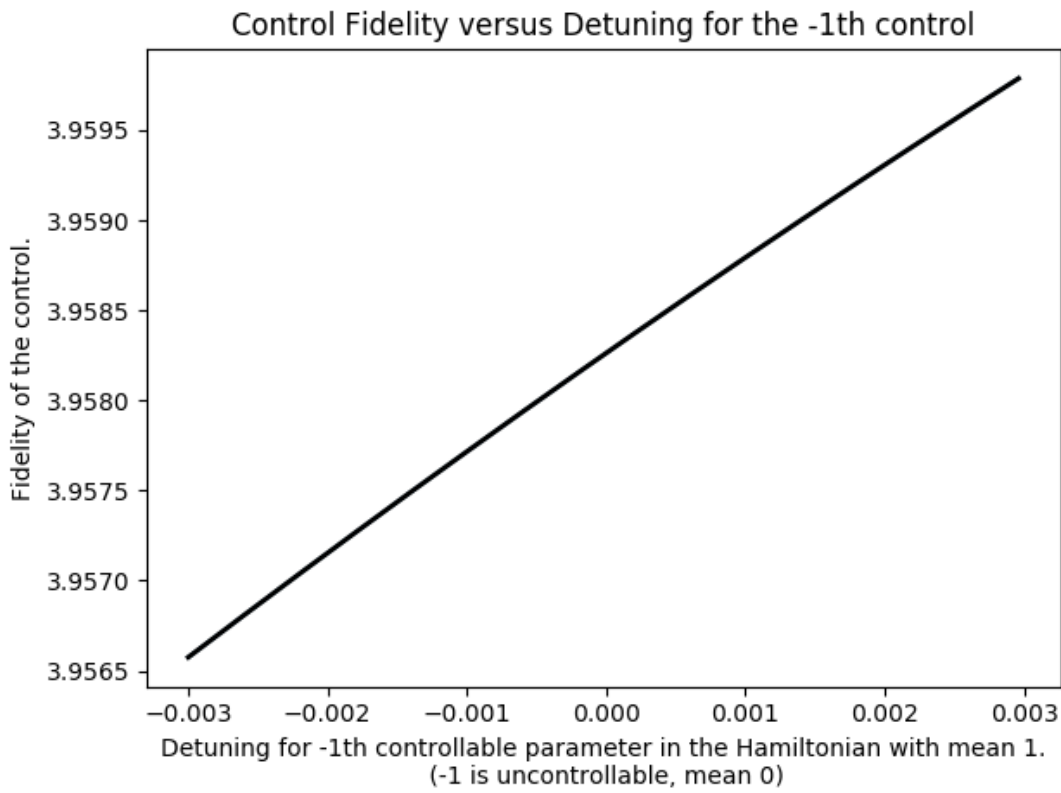
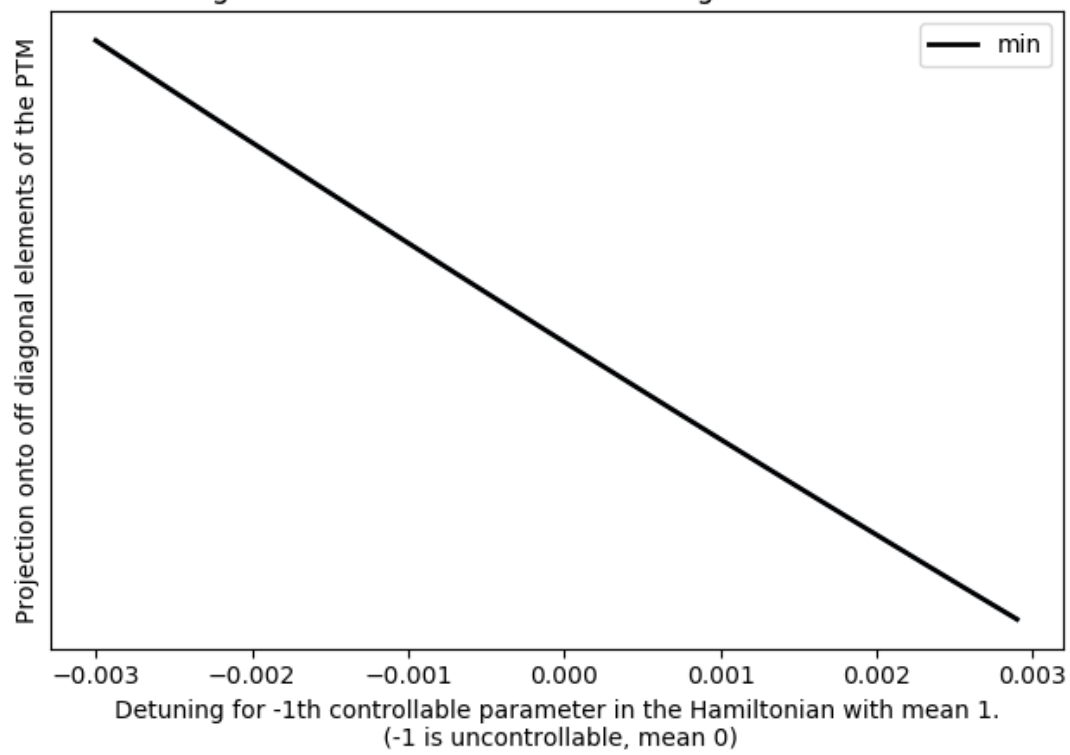


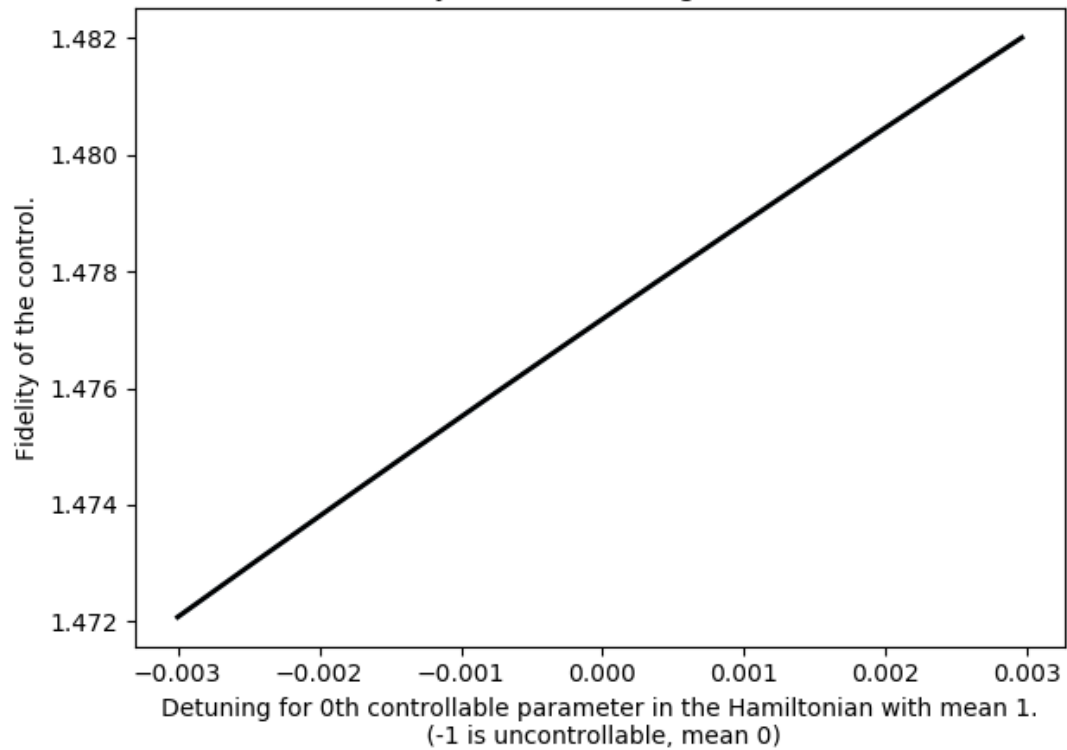
Ambient Hamiltonian: $\begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix}$
Control Hamiltonians: $\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$, $\begin{bmatrix} 1 & 0 \end{bmatrix}$), $\text{array}(\begin{bmatrix} 0.+0.j, 0.-1.j \end{bmatrix}, \begin{bmatrix} 0.+1.j, 0.+0.j \end{bmatrix})$, $\text{array}(\begin{bmatrix} 1, 0 \end{bmatrix}, \begin{bmatrix} 0, -1 \end{bmatrix})$)
Detunings: [0.001, 0.001, 0.001, 0.001]
dt: 0.125663706144
Probs: [1.]
Target Operator: $\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$
Time: 5.37223911285
Controlset: $\begin{bmatrix} 0.70632232, -0.03809112, 0.10493314 \end{bmatrix}, \begin{bmatrix} 0.63018367, 0.10233421, -0.05692384 \end{bmatrix}, \begin{bmatrix} 0.661526, -0.00414579, -0.04961983 \end{bmatrix}, \begin{bmatrix} 0.78102236, -0.03262928, 0.06260574 \end{bmatrix}, \begin{bmatrix} 0.62191342, -0.02904465, 0.07335479 \end{bmatrix}, \begin{bmatrix} 0.56657401, 0.12354415, 0.10093015 \end{bmatrix}, \begin{bmatrix} 0.77627521, 0.01241071, -0.07934662 \end{bmatrix}, \begin{bmatrix} 0.7961406, 0.00424334, 0.06049173 \end{bmatrix}, \begin{bmatrix} 0.5915379, -0.03937652, 0.10706888 \end{bmatrix}, \begin{bmatrix} 0.61565106, 0.10133654, 0.03363359 \end{bmatrix}, \begin{bmatrix} 0.71758031, 0.11591578, -0.08403868 \end{bmatrix}, \begin{bmatrix} 0.60486508, -0.02774547, -0.05131848 \end{bmatrix}, \begin{bmatrix} 0.64058754, 0.01154437, 0.10134944 \end{bmatrix}, \begin{bmatrix} 0.62177454, 0.00587047, -0.06658417 \end{bmatrix}, \begin{bmatrix} 0.73325049, 0.00190145, -0.04272458 \end{bmatrix}, \begin{bmatrix} 0.90324118, 0.0759291, -0.06746075 \end{bmatrix}, \begin{bmatrix} 0.74018324, -0.01508013, 0.03804081 \end{bmatrix}, \begin{bmatrix} 0.74965076, 0.02196144, -0.04591617 \end{bmatrix}, \begin{bmatrix} 0.75094495, -0.00301857, -0.00290854 \end{bmatrix}, \begin{bmatrix} 0.74630262, -0.08879731, -0.05193963 \end{bmatrix}, \begin{bmatrix} 0.67444056, -0.08111951, 0.03194128 \end{bmatrix}, \begin{bmatrix} 0.69906798, -0.04454306, -0.00504798 \end{bmatrix}, \begin{bmatrix} 0.73438857, 0.04896799, 0.08894455 \end{bmatrix}, \begin{bmatrix} 0.71438671, -0.06152548, 0.00553765 \end{bmatrix}, \begin{bmatrix} 0.81190034, 0.01177685, 0.00636737 \end{bmatrix}, \begin{bmatrix} 0.7787008, 0.03023102, 0.01403496 \end{bmatrix}, \begin{bmatrix} 0.90656878, -0.1221045, -0.00435753 \end{bmatrix}, \begin{bmatrix} 0.94127148, 0.02273744, 0.09472401 \end{bmatrix}, \begin{bmatrix} 0.77832395, 0.0146806, -0.05200703 \end{bmatrix}, \begin{bmatrix} 0.72563153, -0.08423143, 0.00315435 \end{bmatrix}, \begin{bmatrix} 0.80850499, -0.06314323, 0.04633342 \end{bmatrix}, \begin{bmatrix} 0.72835048, 0.06042271, 0.0400363 \end{bmatrix}, \begin{bmatrix} 0.77649063, -0.04705185, 0.01728907 \end{bmatrix}, \begin{bmatrix} 0.65420614, -0.08399177, 0.11255151 \end{bmatrix}, \begin{bmatrix} 0.67226156, 0.09139314, 0.05487841 \end{bmatrix}, \begin{bmatrix} 0.72975677, 0.04293974, -0.06875819 \end{bmatrix}, \begin{bmatrix} 0.83814015, 0.03842002, 0.00304929 \end{bmatrix}, \begin{bmatrix} 0.69306521, -0.01272767, -0.01520798 \end{bmatrix}, \begin{bmatrix} 0.80797238, -0.06930958, -0.08370485 \end{bmatrix}, \begin{bmatrix} 0.86597796, -0.02206621, 0.05685763 \end{bmatrix}, \begin{bmatrix} 0.74580341, -0.01797858, -0.06977057 \end{bmatrix}, \begin{bmatrix} 0.66635975, -0.03532712, 0.01690537 \end{bmatrix}, \begin{bmatrix} 0.76387711, -0.06428602, -0.00978651 \end{bmatrix}, \begin{bmatrix} 0.88879048, 0.01671278, -0.07907142 \end{bmatrix}, \begin{bmatrix} 0.76689687, -0.01435058, 0.00799817 \end{bmatrix}, \begin{bmatrix} 1.05291192, 0.01341263, 0.04266432 \end{bmatrix}, \begin{bmatrix} 0.83978948, -0.02472612, 0.00862172 \end{bmatrix}, \begin{bmatrix} 0.87149569, -0.02797163, -0.02753329 \end{bmatrix}, \begin{bmatrix} 0.80454092, -0.06072192, 0.07179983 \end{bmatrix}, \begin{bmatrix} 0.81522411, -0.05868654, -0.04330628 \end{bmatrix}]]$

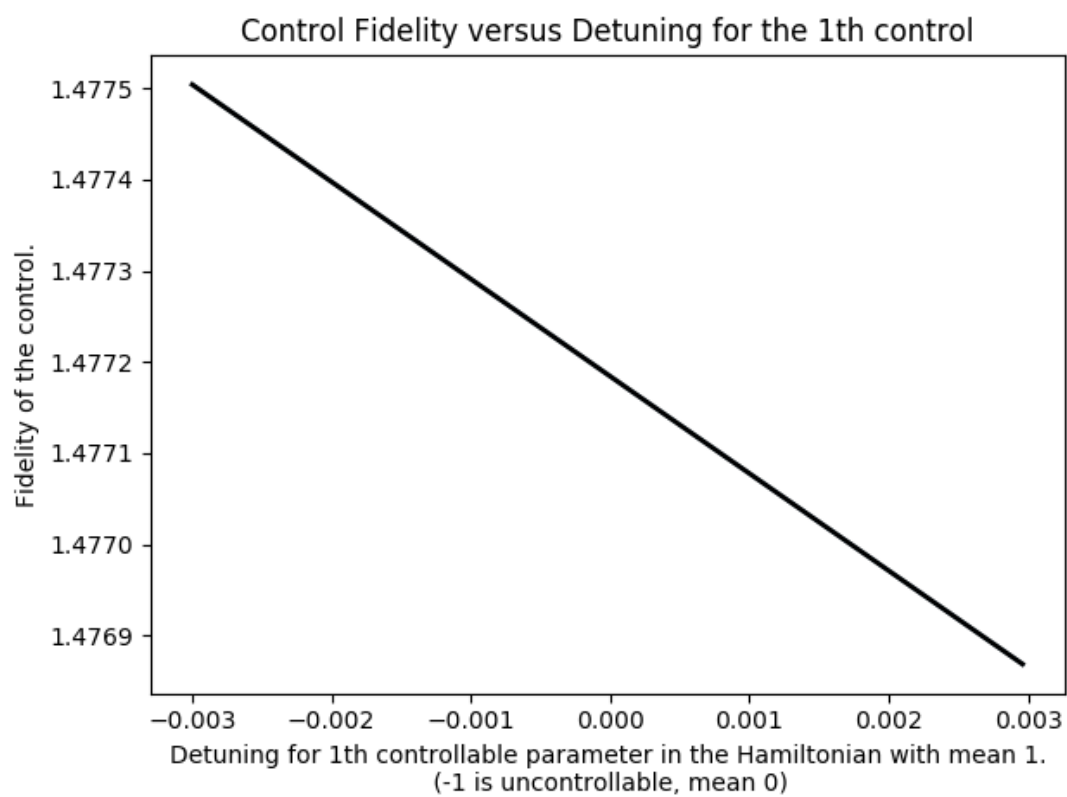
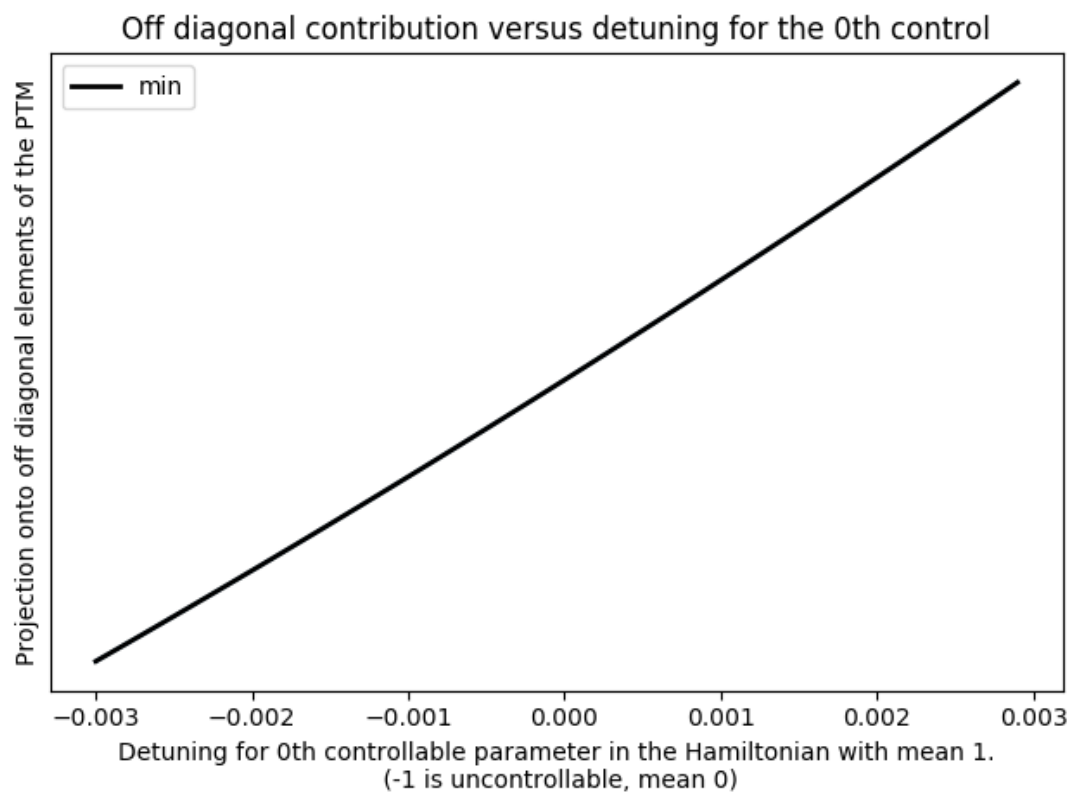


Off diagonal contribution versus detuning for the -1th control

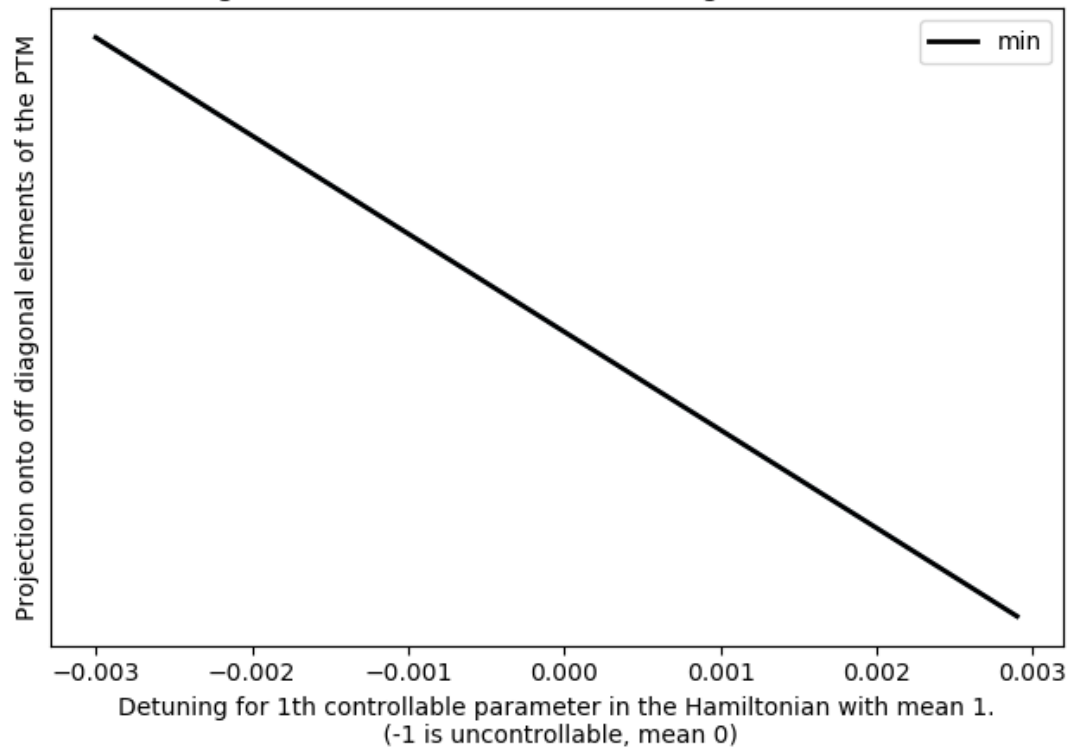


Control Fidelity versus Detuning for the 0th control

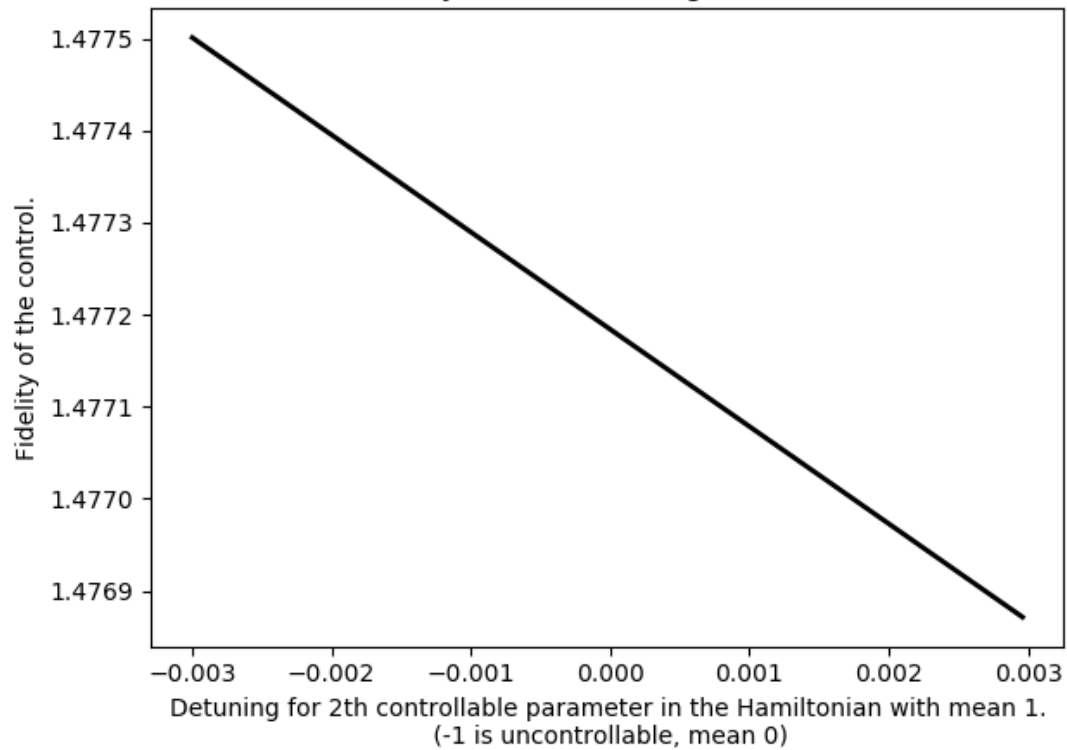




Off diagonal contribution versus detuning for the 1th control



Control Fidelity versus Detuning for the 2th control



Off diagonal contribution versus detuning for the 2th control

