```
Ambient Hamiltonian: [[1\ 0]\ [0\ -1]]
                                 Control Hamiltonians: [array([[0, 1], [1, 0]]), array([[0.+0.j, 0.-1.j], [0.+1.j, 0.+0.j]]), array([[1, 0], [0, -1]])]
                                Detunings: [0, 0.001, 0.001, 0.001]
                                 dt: 0.125663706144
                                 Probs: [ 0.34705097 0.11284269 0.23929045 0.19387268 0.10694321]
                                Target Operator: [[0 1] [1 0]]
                                Time: 125.419482946
                                 Control set: [array([0.70632236, -0.03809112, 0.10493314], [0.6301837, 0.10233421, -0.05692384], [0.66152604, -0.00414579, -0.04961983]] \\
   [0.78102239, -0.03262928, 0.06260574], [0.62191345, -0.02904465, 0.07335479], [0.56657404, 0.12354415, 0.10093015], [0.77627525, 0.0124107, 0.07627525]
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