

Ambient Hamiltonian: [[[0.01 0.] [0. -0.01]]
Control Hamiltonians:[array([[0, 1], [1, 0]])]
Detunings: [0.001, 0.01]
dt: 0.0628318530718
Probs: [9.13464787e-03 5.87769191e-03 2.23837429e-03 9.09096625e-03 9.42309838e-03 1.43463197e-02 1.23542135e-06 5.37896663e-03 1.98428878e-02 8.33777931e-04 9.47867684e-03 1.81092421e-02 4.52321260e-03 1.82056782e-02 9.11328668e-03 9.37981771e-03 3.65234645e-03 1.25677685e-03 6.30757433e-03 3.11287356e-03 1.18731276e-02 1.65549032e-02 7.18374114e-03 1.91864743e-02 4.88588948e-03 1.50247812e-02 1.81134536e-02 1.41484884e-02 9.52853131e-03 5.06692392e-03 1.53354074e-02 1.32297644e-02 1.82391325e-02 1.93391436e-02 3.51708874e-04 2.44158249e-03 5.37140248e-04 1.71527402e-02 7.92980924e-03 1.19223625e-02 1.21065385e-02 1.44176637e-02 1.96111647e-02 2.51257742e-03 1.01952233e-02 2.05041228e-02 1.74698067e-02 9.53074839e-03 5.41467880e-03 1.77540906e-02 1.38391914e-02 6.22915121e-03 1.03843274e-02 1.92306395e-02 5.41662501e-03 5.75673725e-04 2.56447012e-03 2.68304577e-03 1.46392685e-02 9.91057920e-03 9.99773593e-04 7.52793653e-03 6.20124873e-03 2.96723114e-03 1.79086230e-03 1.69821875e-02 1.86529881e-03 1.56823058e-02 1.84013280e-02 1.06096430e-02 2.05574134e-02 1.39263653e-02 9.67725645e-03 9.67381190e-03 2.03972463e-02 1.89597138e-02 1.88915774e-02 2.37347146e-03 6.33686285e-03 7.56404527e-03 1.64938012e-02 5.58087531e-04 9.07392709e-03 7.73194605e-03 7.67623357e-03 6.78716700e-03 1.39936962e-02 1.38988444e-02 1.68423384e-02 8.52390569e-04 9.01223882e-03 1.12515208e-02 8.31587957e-03 1.87457504e-02 4.31997230e-03 1.00372708e-02 2.41416013e-03 1.50425278e-02 9.27197964e-03 3.95254244e-03]
Target Operator: [[0 1] [1 0]]
Time: 740.722419977
Controlset: [array([[3.56221209], [3.62164987], [3.31001719], [3.31022687], [2.84828031], [2.54044294], [2.47678356], [2.21321784], [2.05032709], [1.74663502], [1.35978233], [1.11135141], [0.89331493], [0.68353816], [0.63717309], [0.27755792], [0.08086868], [0.04581779], [-0.3157198], [-0.41185967], [-0.60010156], [-0.77416357], [-0.99896263], [-1.07287174], [-1.09267771], [-1.1327119], [-1.18818438], [-1.25762116], [-1.19922915], [-1.17341809], [-1.10430534], [-1.17840296], [-1.03437939], [-0.75309223], [-0.64580398], [-0.73516035], [-0.60951872], [-0.65114764], [-0.82558561], [-0.73795366], [-0.99721642], [-1.72088635], [-1.5763806], [-1.98101186], [-2.4814625], [-2.97800758], [-3.40628046], [-4.02480617], [-3.95987302], [-4.149419], [-4.26015302], [-4.34191154], [-3.65442024], [-3.48457908], [-3.07096455], [-2.67976002], [-2.27655443], [-1.99146429], [-1.6390287], [-1.43698568], [-1.12971371], [-1.00575159], [-0.69442746], [-0.67748201], [-0.58379571], [-0.88847761], [-0.91738467], [-0.84444904], [-0.83503812], [-1.07475201], [-0.9571119], [-1.00397692], [-0.98927119], [-1.18789682], [-0.99301786], [-0.86443417], [-0.93011262], [-0.81186775], [-0.53401446], [-0.51042558], [-0.34098858], [-0.15233397], [0.03754699], [0.23308107], [0.57801367], [0.67647976], [0.94699173], [1.18965818], [1.33811627], [1.63562996], [2.04909167], [2.07401432], [2.32272533], [2.97081521], [2.64354734], [3.2610041], [3.0943814], [3.20437866], [3.84100239], [3.67983451]]), array([[-0.64191378], [-0.68282989], [-0.75483308], [-0.7472144], [-0.77801704], [-0.82294291], [-0.99073746], [-0.82542393], [-0.87737883], [-0.89162709], [-0.93107241], [-1.17382058], [-0.99381507], [-1.12352615], [-1.22016585], [-1.04179188], [-1.14016114], [-1.01965368], [-1.24874653], [-1.23202194], [-1.20002871], [-0.95631963], [-1.06327961], [-0.9385645], [-0.95221501], [-1.01380171], [-0.96721092], [-0.80063709], [-0.87550521], [-0.72961906], [-0.71533314], [-0.73255421], [-0.84555891], [-0.59300477], 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array([[-0.67639176], [-0.69382206], [-0.71645088], [-0.71625973], [-0.77330253], [-0.90034849], [-0.86516909], [-0.86548521], [-0.86457972], [-0.90605305], [-0.93256844], [-0.96579087], [-1.03666925], [-1.18563048], [-1.02797724], [-1.00786227], [-1.12794995], [-1.10037486], [-1.21686597], [-1.06317139], [-1.02328295], [-1.15176731], [-1.09401071], [-0.98857051], [-1.00058874], [-1.0040721], [-0.93440035], [-1.00005572], [-0.83804444], [-0.82547939], [-0.94887715], [-0.72055293], [-0.72306545], [-0.6230694], [-0.58402295], [-0.58430263], [-0.5203167], [-0.57002112], [-0.5667289], [-0.52726133], [-0.49313409], [-0.31230505], [-0.24679678], [-0.36931064], [-0.23116231], [-0.33736052], [-0.18187001], [-0.25749881], [-0.27902364], [-0.24798957], [-0.21434607], [-0.14972045], [-0.16088102], [-0.33603893], [-0.19945245], [-0.24305966], [-0.35989457], [-0.26281568], [-0.30238189], [-0.50405607], [-0.3858907], [-0.59379968], [-0.52924636], [-0.51557221], [-0.56853214], [-0.6435927], [-0.7104404], [-0.69735724], [-0.73142667], [-0.77597814], [-0.79250017], [-0.94495292], [-0.98307533], [-0.87508662], [-0.92650261], [-1.10238486], [-1.09795082], [-1.20972624], [-0.96161954], [-1.00153144], [-1.04734141], [-1.12721445], [-1.00694056], [-0.97636406], [-1.03695815], [-1.16958836], [-0.98728288], [-0.91628263], [-0.90837147], [-0.91652858], [-1.0654756], [-1.06038467], [-1.03952701], [-0.81863407], [-0.78916965], [-0.71608633], [-0.68920708], [-0.6789117], [-0.78032214], [-0.65486625]]), array([[0.6466021], [0.64669308], [0.69239675], [0.70523217], [0.73404745], [0.82536267], [0.75733398], [0.7787893], [0.81994893], [1.03985324], [0.8189792], [0.88419639], [1.0921618], [1.1583275], [1.1199062], [1.04597083], [0.980098], [1.08116572], [1.05567083], [1.05524175], [1.14375235], [1.28026607], [1.06122986], [1.26207087], [1.10344167], [1.12563753], [1.2105211], [0.97705173], [1.06671555], [1.15715031], [0.88771211], [0.82186735], [0.82106774], [0.70887697], [0.66778263], 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array([[-0.9481035], [-0.87016855], [-0.6606884], [-0.61875172], [-0.56979265], [-0.70118224], [-0.4777322], [-0.43031013], [-0.47257591], [-0.32577175], [-0.31108487], [-0.21792937], [-0.16541659], [-0.12677899], [-0.09889257], [-0.14819679], [-0.03231364], [0.00445165], [0.11478664], [0.01280908], [0.23030356], [0.21977284], [0.20051789], [0.28717979], [0.33422632], [0.49547371], [0.36686204], [0.40447509], [0.44349219], [0.65258803], [0.52747759], [0.55891851], [0.61584627], [0.82885672], [0.67636462], [0.70597963], [0.88707699], [0.88053943], [0.78298378], [1.04799073], [0.84478759], [0.86059945], [1.02640131], [1.07153898], [0.88844066], [1.04256736], [0.89404276], [1.00461529], [0.91620234], [0.93090537], [1.15161359], [1.04037397], [0.89534825], [0.88272968], [0.89603516], [1.05159092], [0.84474925], [0.88048332], [0.83709767], [0.8090294], [0.82110256], [0.76484482], [0.73659414], [0.68039246], [0.67759593], [0.66502104], [0.71607778], [0.621069], [0.69433644], [0.47844763], 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4.2652838], [- 3.67526472], [- 2.5048373], [- 1.16949745], [0.59855346], [2.61619433], [4.30691139], [5.67966158], [7.33837344], [9.21657887], [10.54163031], [10.64976611], [10.38348076], [8.66348767], [7.18612176], [3.8372289], [1.1350207], [- 1.98825743], [- 6.12414099], [- 8.95218125], [- 11.67517753], [- 14.59342011], [- 16.53871782], [- 14.73990959], [- 15.35909123], [- 14.12402592], [- 11.16584913], [- 8.26015346], [- 5.7335628], [- 2.78297362], [0.25152191], [4.04712024], [6.76373256], [7.50730459], [9.0126228], [11.39150919], [9.82765704], [10.61687014], [9.52285011], [7.57433528], [6.31082609], [5.16812123], [3.73131459], [1.96640607], [0.59016997], [- 0.49694967], [- 1.55277297], [- 2.80609919], [- 2.95192071], [- 4.17863496], [- 4.40797006], [- 4.32602355], [- 4.29838541], [- 3.8446937], [- 4.46552898], [- 3.98637055], [- 3.20131452], [- 2.89857305], [- 2.58167323], [- 1.77258063], [- 1.13415963], [- 0.57130932], [- 0.02205463], [0.67514423], [1.40679555], [2.24688379], 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2.53187366], [- 2.07382334], [- 1.87716103], [- 1.91839722], [- 1.74965047], [- 1.5412926], [- 1.56423137], [- 1.13179375], [- 1.02810715], [- 0.86275335], [- 0.68747037], [- 0.53307072], [- 0.53297778], [- 0.2967491], [- 0.18659238], [0.02754535], [0.16088073], [0.21040415], [0.3477686], [0.52686732], [0.81972977], [0.79494538], [0.84149929], [1.10109486], [0.99653382], [1.08124655], [1.44247121], [1.33973685], [1.41826653], [1.60279883], [1.69295342], [1.57465531], [1.66820136], [2.04680282], [1.92712881], [2.060445], [1.89384493], [1.99382708], [2.1074028], [2.02636124], [1.98953687], [2.06987823], [2.3480772], [2.49697436], [2.15906379], [2.09925337], [2.36925355], [2.05079117], [2.12701618], [2.2197359], [2.05401506], [2.30745936], [2.21597306], [2.27666066], [1.87777142], [1.89289451], [1.85587187], [1.93638248], [1.6127557], [1.60173919], [1.71697373], [1.50578925], [1.33230667], [1.5928737], [1.25902377], [1.12350626], [1.28738585], [1.01540185], [0.83287807], [0.68484817], 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3.13041687e+01], [- 3.05656080e+01], [- 3.60487417e+01], [- 3.85378369e+01], [- 4.25100876e+01], [- 4.43175413e+01], [- 5.31947738e+01], [- 4.85761813e+01], [- 4.02789805e+01], [- 3.04685828e+01],

[-1.02771280e+01], [1.80091018e+01], [5.38241535e+01], [7.07818589e+01], [3.86200939e+01], [-1.60656824e+01], [-5.52178608e+01], [-5.60899837e+01], [-7.32149364e+00], [6.59647551e+01], [5.99731188e+01], [1.19789159e+01], [-4.95323206e+01], [-6.79542309e+01], [-5.32720607e+01], [-1.45098148e+01], [1.71360445e+01], [4.92734699e+01], [5.84536884e+01], [6.06004710e+01], [6.31700521e+01], [5.20087583e+01], [3.43913442e+01], [2.44895113e+01], [1.18862424e+01], [8.51910509e+00], [6.70987606e+00], [4.05250354e+00], [2.19855104e-01], [-2.86978356e+00], [-6.07729571e+00], [-8.10877692e+00], [-8.38596991e+00], [-7.83483864e+00], [-7.97692918e+00], [-7.93824417e+00], [-7.90432921e+00], [-6.66543175e+00], [-4.65582657e+00], [-2.64853767e+00], [-4.36045593e-02], [2.52122847e+00], [4.80455536e+00], [6.31014849e+00], [6.76806218e+00], [6.53341982e+00], [5.18520841e+00], [2.58572743e+00], [-1.43091671e+00], [-3.94756369e+00], [-5.86606191e+00], [-6.85088861e+00], [-5.03062371e+00], [-1.20160145e+00], [1.77542026e+00], [4.73248163e+00], [7.03816298e+00], [8.58023451e+00], [9.67409262e+00]], array([[1.44442735], [1.36703144], [1.23152653], [1.42938859], [1.64374215], [1.51845899], [1.40553177], [1.51419627], [1.57702127], [1.5062373], [1.74980225], [1.51251131], [1.48522958], [1.56201458], [1.6664809], [1.30907511], [1.42413568], [1.24541714], [1.19060843], [1.12277937], [1.17267235], [1.11614996], [1.13411961], [0.95689386], [0.84332264], [0.8393408], [0.99980574], [0.77627204], [0.78975204], [0.98315672], [0.837732], [0.90759628], [0.92941221], [0.82615474], [0.90525142], [0.97253891], [1.02025259], [0.99248375], [1.12048151], [1.39918448], [1.4719102], [1.21569496], [1.51009448], [1.40537726], [1.43073013], [1.34599838], [1.52724082], [1.57941014], [1.42089256], [1.49751168], [1.40102481], [1.55629787], [1.52045666], [1.36388805], [1.67940592], [1.33703053], [1.22906134], [1.34666579], [1.22251005], [1.12319809], [1.16664651], [1.04306407], [1.16769094], [0.99571944], 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[-1.05923163], [-1.0252806], [-1.0126679], [-1.22569353], [-1.0037147], [-0.9651532], [-0.94955425], [-0.98055645], [-0.97440927], [-1.00861013], [-1.08213454], [-0.88863881], [-0.85630968], [-0.78993288], [-0.84063222], [-0.74496855], [-0.68410451], [-0.68669388], [-0.63296848], [-0.57498129], [-0.54495949], [-0.50665292], [-0.61084999], [-0.43567031], [-0.40203088], [-0.37964713], [-0.42085483], [-0.32743075], [-0.32327923], [-0.31555484], [-0.34371961], [-0.36345993], [-0.37863971], [-0.19134266], [-0.22538629], [-0.29328863], [-0.21913374], [-0.3836871], [-0.26524619], [-0.35439664], [-0.34661879], [-0.27021225], [-0.2745937], [-0.41421353], [-0.37827621], [-0.36552091], [-0.41067073], [-0.43933787], [-0.47125132], [-0.50825147], [-0.53948486], [-0.57316659], [-0.61635805], [-0.69535572], [-0.68141606], [-0.74632321], [-0.90411313], [-0.77604153], [-0.9083113], [-0.90487136], [-0.89729058], [-0.91211279], [-1.06010764], [-1.11679672], [-1.02395742], [-1.03483874], [-1.06874629], 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