

QuTiP: Quantum Toolbox in Python

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QuTiP Version: 4.2.0

Numpy Version: 1.13.3

Scipy Version: 1.0.0

Cython Version: 0.27.3

Matplotlib Version: 2.1.1

Python Version: 3.6.3

Number of CPUs: 2

BLAS Info: INTEL MKL

OPENMP Installed: False

INTEL MKL Ext: True

Platform Info: Darwin (x86_64)

Installation path: /Users/tejasshetty/anaconda3/lib/python3.6/site-packages/qutip

Transform 2-level to eigenbasis and back ... ok

Transform 10-level real-values to eigenbasis and back ... ok

Transform 10-level to eigenbasis and back ... ok

Transform 10-level imag to eigenbasis and back ... ok

Consistency between transformations of kets and density matrices ... ok

Check diagonalization via eigenbasis transformation ... ok

Check Qobj eigs and direct eig solver transformations match ... ok

Check Qobj eigs and direct eig solver reverse transformations match ... ok

brmesolve: simple qubit ... ok

brmesolve: c_ops alone ... ok

brmesolve: c_ops with a_ops ... ok

brmesolve: harmonic oscillator, zero temperature ... ok

brmesolve: harmonic oscillator, finite temperature ... ok

brmesolve: harmonic oscillator, finite temperature, states ... ok

brmesolve: Jaynes-Cummings model, zero temperature ... ok

brmesolve: Check for #572 bug. ... ok

td_brmesolve: passes all brmesolve tests ... clang: warning:

libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

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clang: **warning:** libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

td_brmsolve: time-dependent a_ops ... clang: **warning:** libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

td_brmsolve: time-dependent a_ops tuple of strings ... clang: **warning:** libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

td_brmsolve: time-dependent a_ops tuple interp ... clang: **warning:** libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

td_brmsolve: time-dependent a_ops & c_ops interp ... clang: **warning:** libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

td_brmsolve: non-Hermitian e_ops check ... clang: **warning:** libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

td_brmsolve: states check ... clang: **warning:** libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

td_brmsolve: split ops #1 ... clang: **warning:** libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

td_brmsolve: split ops #2 ... clang: **warning:** libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

td_brmsolve: split ops, Cubic_Spline td-terms ... clang: **warning:** libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

```
td_brmsolve: split ops, multiple ... clang: warning: libstdc++ is
deprecated; move to libc++ with a minimum deployment target of OS
X 10.9 [-Wdeprecated]
ok
BR Tools : zheevr ... ok
BR Tools : dense operator to eigenbasis ... ok
BR Tools : vector to eigenbasis ... ok
BR Tools : eigvector to fockbasis ... ok
BR Tools : vector roundtrip transform ... ok
BR Tools : Diagonal liouvillian mult ... ok
BR Tools : cop_super_mult ... ok
BR Tools : br_term_mult ... ok
control.pulseoptim: Hadamard gate with linear initial pulses ...
ok
control.pulseoptim: Hadamard gate with linear initial pulses (no
stats) ... ok
control.pulseoptim: Hadamard gate with linear initial pulses (tau)
... ok
control.pulseoptim: Hadamard gate with linear initial pulses
(Qobj) ... ok
control.pulseoptim: Hadamard gate with linear initial pulses
(00) ... ok
control.pulseoptim: Hadamard gate gradient check ... ok
control.pulseoptim: QFT gate with linear initial pulses ... ok
control.pulseoptim: QFT gate with linear initial pulses
(bounds) ... ok
control: data dumping ... ok
control: unitarity checking (via dump) ... ok
control.pulseoptim: state-to-state transfer ... ok
control.pulseoptim: state-to-state transfer (Qobj) ... ok
control.pulseoptim: amplitude damping channel ... ok
control.pulseoptim: coupled oscillators (symplectic dynamics) ...
ok
control.pulseoptim: Hadamard gate using CRAB algorithm ... ok
control.pulseoptim: Hadamard gate (loading config from file) ...
ok
control.pulsegen: Check periodic control functions ... ok
control.pulseoptim: Hadamard gate with fixed and time varying
drift ... ok
control.pulseoptim: Hadamard gate with fixed and time varying
ctrls ... ok
correlation: legacy me and es for oscillator in coherent initial
state ... ok
correlation: comparing me and es for oscillator in coherent
initial state ... ok
```

```
correlation: comparing me and mc for driven oscillator in fock
state ... ok
correlation: legacy me and es for oscillator in steady-state ...
ok
correlation: comparing me and es for oscillator in steady-
state ... ok
correlation: legacy spectrum from es and pi methods ... ok
correlation: comparing spectrum from es and fft methods ... ok
correlation: comparing spectrum from es and pi methods ... ok
correlation: comparing TLS emission corr., H td (str-list td
format) ... clang: warning: libstdc++ is deprecated; move to libc++
+ with a minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
correlation: comparing TLS emission corr., H td (np-list td
format) ... clang: warning: libstdc++ is deprecated; move to libc++
+ with a minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
correlation: comparing TLS emission corr., H td (fn-list td
format) ... ok
correlation: comparing TLS emission corr., H td (fn td format) ...
ok
correlation: comparing 3LS emission corr., c_ops td (str-list td
format) ... clang: warning: libstdc++ is deprecated; move to libc++
+ with a minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
```

```
correlation: comparing 3LS emission corr., c_ops td (np-list td
format) ... clang: warning: libstdc++ is deprecated; move to libc++
+ with a minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
correlation: comparing 3LS emission corr., c_ops td (fn-list td
format) ... ok
correlation: comparing TLS emission corr. (str-list td format) ...
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
correlation: comparing TLS emission corr. (np-list td format) ...
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
correlation: comparing TLS emission corr. (fn-list td format) ...
ok
Counting statistics: current and current noise in a DQD model ...
ok
Dispersive cQED Setup: compare unitary matrix for ISWAP and
propogator ... ok
Dispersive cQED Setup: compare unitary matrix for ISWAP,
SQRTISWAP, ... ok
Cython structs : C00 to CSR ... ok
Cython structs : sort CSR indices inplace ... ok
Cython structs : C00 to CSR inplace (no sort) ... ok
Cython structs : C00 to CSR inplace (sorted) ... ok
Cython structs : CSR to C00 ... ok
qutip.tests.test_dimensions.test_flatten ... ok
qutip.tests.test_dimensions.test_enumerate_flat ... ok
```

```
qutip.tests.test_dimensions.test_deep_remove ... ok
qutip.tests.test_dimensions.test_unflatten ... ok
qutip.tests.test_dimensions.test_dims_idx_to_tensor_idx ... ok
qutip.tests.test_dimensions.test_dims_to_tensor_shape ... ok
qutip.tests.test_dimensions.test_type_from_dims ... ok
qutip.tests.test_dimensions.test_collapse ... ok
Diagonalization of random two-level system ... ok
Diagonalization of composite systems ... ok
Excitation-number-restricted state-space: full state space ... ok
Excitation-number-restricted state space: single excitations ...
ok
Excitation-number-restricted state space: two excitations ... ok
Excitation-number-restricted state space: fock states ... ok
Excitation-number-restricted state space: identity operator ... ok
Excitation-number-restricted state space: thermal density operator
(I) ... ok
Excitation-number-restricted state space: thermal density operator
(II) ... ok
Entropy: von-Neumann entropy ... ok
Entropy: Linear entropy ... ok
Entropy: Concurrence ... ok
Entropy: Mutual information ... ok
Entropy: Conditional entropy ... ok
Entropy: Entangling power ... ok
expect: operator list and state list ... ok
expect: operator and density matrix ... ok
expect: operator and ket ... ok
expect: operator list and state ... ok
expect: operator list and state list ... ok
expect: operator and state list ... ok
fastsparse: fast_csr_matrix operations ... ok
fastsparse: transpose operations ... ok
fastsparse: adjoint operations ... ok
Read and write complex valued decimal formatted data ... ok
Read and write complex valued default formatted data ... ok
Read and write complex valued exp formatted data ... ok
Read and write real valued decimal formatted data ... ok
Read and write real valued default formatted data ... ok
Read and write real valued exp formatted data ... ok
Read and write with automatic separator detection ... ok
qsave/qload ... ok
Floquet: test unitary evolution of time-dependent two-level system
... ok
gates: expand 1 to N ... ok
gates: expand 2 to N (using cnot, iswap, sqrtswap) ... ok
```

```
gates: expand 2 to N (using swap) ... ok
gates: expand 3 to N (using toffoli, fredkin, and random 3 qubit
gate) ... ok
gates: expand 3 to 3 with permutation (using toffoli) ... ok
gates: swap gate ... ok
qutip.tests.test_gates.TestGates.test_are_cliffords ... ok
qutip.tests.test_gates.TestGates.test_clifford_group_len ... ok
Graph: Graph Degree ... ok
Graph: Breadth-First Search ... ok
Graph: Reverse Cuthill-McKee Ordering (simple) ... ok
Graph: Reverse Cuthill-McKee Ordering (boost) ... ok
Graph: Reverse Cuthill-McKee Ordering (qutip) ... ok
Graph: Maximum Bipartite Matching ... ok
Graph: Weighted Bipartite Matching ... ok
Graph: Column Permutation ... ok
HSolverDL: Compare with pure-dephasing analytical ... ok
Interpolate: Sine + noise (array) ... ok
Interpolate: Sine + noise (point) ... ok
Interpolate: Complex sine + noise (array) ... ok
Interpolate: Complex sine + noise (point) ... ok
Interpolate: sesolve str-based (real) ... clang: warning: libstdc++
+ is deprecated; move to libc++ with a minimum deployment target
of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
Interpolate: mesolve str-based (real) ... clang: warning: libstdc++
+ is deprecated; move to libc++ with a minimum deployment target
of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
Interpolate: mcsolve str-based (real) ... clang: warning: libstdc++
+ is deprecated; move to libc++ with a minimum deployment target
of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
Interpolate: sesolve str + interp (real) ... clang: warning:
libstdc++ is deprecated; move to libc++ with a minimum deployment
target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
```

Interpolate: sesolve func + interp (real) ... clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

Interpolate: mesolve str + interp (real) ... clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

Interpolate: mesolve func + interp (real) ... clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

Interpolate: mcsolve str + interp (real) ... clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

Interpolate: mcsolve func + interp (real) ... clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

Interpolate: mesolve str + interp (complex) ... clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

Interpolate: mesolve func + interp (complex) ... clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

Interpolate: brmesolve str + interp (real) ... clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

ok

Interpolate: brmesolve str + interp (complex) ... clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]

clang: warning: libstdc++ is deprecated; move to libc++ with a minimum deployment target of OS X 10.9 [-Wdeprecated]


```
ok
Interpolate: brmesolve c_op as interp (str) ... clang: warning:
libstdc++ is deprecated; move to libc++ with a minimum deployment
target of OS X 10.9 [-Wdeprecated]
ok
Monte-carlo: Constant H with no collapse ops (expect) ... ok
Monte-carlo: Constant H with no collapse ops (states) ... ok
Monte-carlo: Constant H with no collapse ops (expect and
states) ... ok
Monte-carlo: Constant H (str format) with no collapse ops (expect)
... clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
Monte-carlo: Constant H (func format) with no collapse ops
(expect) ... ok
Monte-carlo: Constant H (str format) with no collapse ops (states)
... clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
Monte-carlo: Constant H (func format) with no collapse ops
(states) ... ok
Monte-carlo: Check for stored collapse operators and times ... ok
Monte-carlo: Constant H with constant collapse ... ok
Monte-carlo: Constant H with constant collapse (states) ... ok
Monte-carlo: Constant H with constant collapse (states) ... ok
Monte-carlo: Constant H with single collapse operator ... ok
Monte-carlo: Constant H with single expect operator ... ok
Monte-carlo: Collapse terms constant (func format) ... ok
Monte-carlo: Collapse terms constant (str format) ... clang:
warning: libstdc++ is deprecated; move to libc++ with a minimum
deployment target of OS X 10.9 [-Wdeprecated]
ok
Monte-carlo: Time-dependent H (func format) ... ok
Monte-carlo: Time-dependent H (str format) ... clang: warning:
libstdc++ is deprecated; move to libc++ with a minimum deployment
target of OS X 10.9 [-Wdeprecated]
ok
Monte-carlo: check for correct dtypes (average_states=True) ... ok
Monte-carlo: check for correct dtypes (average_states=False) ...
ok
Monte-carlo: check reusing seeds ... ok
Monte-carlo: check not reusing seeds ... ok
Monte-carlo: list of trajectories ... ok
Monte-carlo: Test for #490 ... ok
mesolve: cavity-qubit interaction, no dissipation ... ok
```

```
mesolve: cavity-qubit without interaction, decay ... ok
mesolve: cavity-qubit with interaction, decay ... ok
mesolve: qubit with dissipation ... ok
mesolve: qubit without dissipation ... ok
mesolve: time-dependence as array with super as init cond ...
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
mesolve: time-dependence as function with super as init cond ...
ok
mesolve: time-dependence as function list with super as init
cond ... ok
mesolve: time-dep. as partial function list with super as init
cond ... ok
mesolve: time-dependence as string list with super as init
cond ... clang: warning: libstdc++ is deprecated; move to libc++
with a minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
mesolve: super vs. density matrix as initial condition ... ok
mesolve: time-dependence as array ... clang: warning: libstdc++ is
deprecated; move to libc++ with a minimum deployment target of OS
X 10.9 [-Wdeprecated]
ok
mesolve: time-dependent Liouvillian as single function ... ok
mesolve: time-dependence as function list ... ok
mesolve: time-dependence as partial function list ... ok
mesolve: time-dependence as string list ... clang: warning:
libstdc++ is deprecated; move to libc++ with a minimum deployment
target of OS X 10.9 [-Wdeprecated]
ok
mesolve: simple constant decay ... ok
mesolve: constant decay as function list ... ok
mesolve: constant decay as string list ... clang: warning:
libstdc++ is deprecated; move to libc++ with a minimum deployment
target of OS X 10.9 [-Wdeprecated]
ok
mesolve: simple constant decay ... ok
mesolve: final_state has correct dims ... ok
mesolve: final_state has correct dims ... ok
Metrics: Fidelity / trace distance limiting cases ... ok
```

Metrics: $\text{dnorm}(A - B)$ in $[0, 2]$ for random superops A, B
SKIP: Known failure; CVXPY/MKL incompatibility.

Metrics: checks that the diamond norm is one for CPTP maps. ...
SKIP: Known failure; CVXPY/MKL incompatibility.

Metrics: checks that special cases for dnorm agree with SDP solutions. ... SKIP: Known failure; CVXPY/MKL incompatibility.

Metrics: check agreement for known qubit channels. ... SKIP: Known failure; CVXPY/MKL incompatibility.

Metrics: checks that $\text{dnorm}(a * A) == a * \text{dnorm}(A)$ for scalar a , qobj A SKIP: Known failure; CVXPY/MKL incompatibility.

Metrics: checks that $\text{dnorm}(A + B) \leq \text{dnorm}(A) + \text{dnorm}(B)$ SKIP: Known failure; CVXPY/MKL incompatibility.

Metrics: Fidelity, mixed state inequality ... ok

Metrics: Fidelity, invariance under unitary trans. ... ok

Metrics: Fidelity of a pure state w/ itself should be 1. ... ok

Metrics: Fidelity of pure states within $[0, 1]$ ok

Metrics: Fidelity of pure states against mixed states within $[0, 1]$ ok

Metrics: Fidelity of mixed states within $[0, 1]$ ok

Metrics: Checks fidelity against known cases. ... ok

Metrics: Checks fidelity against pure-state overlap. (#631) ... ok

Metrics: Trace dist., invariance under unitary trans. ... ok

Metrics: Trace dist. & Fidelity mixed/mixed inequality ... ok

Metrics: Trace dist. & Fidelity mixed/pure inequality ... ok

Metrics: Check avg gate fidelities for random ... ok

Metrics: Tests that for random unitaries U , $\text{AGF}(U, U) = 1$ ok

Metrics: Hilbert distance. ... ok

Metrics: Unitarity for known cases. ... ok

Metrics: Unitarity for known cases. ... ok

Metrics: Unitarity for known cases. ... ok

Metrics: Unitarity in $[0, 1]$ ok

Metrics: Unitarity in $[0, 1]$ ok

Metrics: Unitarity in $[0, 1]$ ok

Metrics: Unitarity in $[0, 1]$ ok

Metrics: Unitarity in $[0, 1]$ ok

Metrics: Unitarity in $[0, 1]$ ok

Metrics: Unitarity in $[0, 1]$ ok

Metrics: Unitarity in $[0, 1]$ ok

Metrics: Unitarity in $[0, 1]$ ok

MKL spsolve : Single RHS vector (Real) ... ok

MKL spsolve : Single RHS vector (Complex) ... ok

MKL spsolve : Multi RHS vector (Real) ... ok

MKL spsolve : Multi RHS vector (Complex) ... ok

MKL splu : Repeated RHS solve (Real) ... ok

```
MKL splu : Repeated RHS solve (Complex) ... ok
MKL spsolve : Solution shape same as input RHS vec ... ok
MKL spsolve : Sparse RHS matrix ... ok
MKL spsolve : Hermitian (complex) solver ... ok
MKL spsolve : Hermitian (real) solver ... ok
OPENMP : mesolve ... SKIP: OPENMP not available.
OPENMP : mesolve (td) ... SKIP: OPENMP not available.
OPENMP : spmvpv_openmp == spmvpv ... SKIP: OPENMP not available.
Spin 1/2 operators ... ok
Spin 3/2 operators ... ok
Spin 2 operators ... ok
Spin 5/2 operators ... ok
Destruction operator ... ok
Creation operator ... ok
Identity operator ... ok
Identity operator (array input) ... ok
Number operator ... ok
Squeezing operator ... ok
Displacement operator ... ok
Charge operator ... ok
Tunneling operator ... ok
parfor ... ok
parallel_map ... ok
serial_map ... ok
partial transpose of bipartite systems ... ok
partial transpose: comparing sparse and dense implementations ...
ok
partial transpose: randomized tests on tripartite system ... ok
Propagator: H0 ('single mode') ... ok
Propagator: H0 ('batch mode') ... ok
Propagator: H0 parallel ... ok
Propagator: str td format ... clang: warning: libstdc++ is
deprecated; move to libc++ with a minimum deployment target of OS
X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
clang: warning: libstdc++ is deprecated; move to libc++ with a
minimum deployment target of OS X 10.9 [-Wdeprecated]
ok
Propagator: func td format ... ok
Propagator: steady state ... ok
Propagator: steady state parallel ... ok
ptrace : randomized tests ... ok
```



```
Checks that binary ops preserve 'superrep'. ... ok
Checks that binary ops preserve 'superrep'. ... ok
Checks that binary ops preserve 'superrep'. ... ok
Checks that binary ops preserve 'superrep'. ... ok
Checks that binary ops preserve 'superrep'. ... ok
Checks that binary ops preserve 'superrep'. ... ok
Checks that binary ops preserve 'superrep'. ... ok
Checks that binary ops preserve 'superrep'. ... ok
Checks that binary ops preserve 'superrep'. ... ok
Checks that binary ops preserve 'superrep'. ... ok
Checks that binary ops preserve 'superrep'. ... ok
Checks that binary ops preserve 'superrep'. ... ok
Checks that binary ops preserve 'superrep'. ... ok
mul and tensor of skew-Hermitian operators report ``isherm =
True``. ... ok
Tensor: Checks that super_tensor respects states. ... ok
Tensor: Super_tensor correctly tensors on underlying spaces. ...
ok
Composite: Tests compositing unitaries and superoperators. ... ok
Composite: Tests compositing states and density operators. ... ok
Test Qobj: trunc_neg works for positive ops. ... ok
Test Qobj: trunc_neg works for diagonal ops. ... ok
Test Qobj: trunc_neg works for non-diagonal ops. ... ok
Test Qobj: trunc_neg works for positive ops. ... ok
Test Qobj: trunc_neg works for diagonal ops. ... ok
Test Qobj: trunc_neg works for non-diagonal ops. ... ok
Test Qobj: trunc_neg works for SGS known-good test case. ... ok
Test Qobj: cosm ... ok
Test Qobj: sinm ... ok
Qobj: dual_chan() preserves inner products with arbitrary density
ops. ... ok
Qobj: dual_chan() preserves inner products with arbitrary density
ops. ... ok
Qobj: dual_chan() preserves inner products with arbitrary density
ops. ... ok
Qobj: dual_chan() preserves inner products with arbitrary density
ops. ... ok
qutip.tests.test_qobj.test_call ... ok
quantum process tomography for snot gate ... ok
quantum process tomography for cnot gate ... ok
Test mesolve qubit, with dissipation ... ok
Test mesolve qubit, no dissipation ... ok
Test essolve qubit, with dissipation ... ok
Test mcsolve qubit, with dissipation ... ok
```

```
Test mcsolve qubit, no dissipation ... ok
CNOT to CSIGN: compare unitary matrix for CNOT and product of ...
ok
CNOT to ISWAP: compare unitary matrix for CNOT and product of ...
ok
CNOT to SQRTISWAP: compare unitary matrix for CNOT and product
of ... ok
CNOT to SQRTSWAP: compare unitary matrix for CNOT and product
of ... ok
CSIGN to CNOT: compare unitary matrix for CSIGN and product of ...
ok
ISWAP to CNOT: compare unitary matrix for ISWAP and product of ...
ok
SWAP to CNOT: compare unitary matrix for SWAP and product of ...
ok
Addition of a gate object directly to a `QubitCircuit` ... ok
Addition of input and output states to a circuit. ... ok
Reverse a quantum circuit ... ok
Adjacent Gates: compare unitary matrix for ISWAP and product
of ... ok
Tests the qubit_states function. ... ok
Random: Stochastic - left ... ok
Random: Stochastic - right ... ok
random Unitary ... ok
random density matrix ... ok
Random: Density matrix - Eigs given ... ok
random hermitian ... ok
Random: Hermitian - Eigs given ... ok
Random: Hermitian - Positive semi-def ... ok
random ket ... ok
Random Qobjs: Tests that unitaries are actually unitary. ... ok
Random Qobjs: Ginibre-random density ops have correct rank. ... ok
Random Qobjs: Tests that BCSZ-random superoperators are CPTP. ...
ok
qutip.tests.test_random.test_rand_vector_dims ... ok
qutip.tests.test_random.test_rand_oper_dims ... ok
qutip.tests.test_random.test_rand_super_dims ... ok
rhs_reuse : pyx filenames match for rhs_reus=True ... clang:
warning: libstdc++ is deprecated; move to libc++ with a minimum
deployment target of OS X 10.9 [-Wdeprecated]
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minimum deployment target of OS X 10.9 [-Wdeprecated]
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```

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ok

Sparse eigs Hermitian ... ok

Sparse eigs non-Hermitian ... ok

Sparse eigvals only Hermitian. ... ok

Dense eigs Hermitian. ... ok

Dense eigs non-Hermitian ... ok

Dense eigvals only Hermitian ... ok

Sparse: Symmetric Permute ... ok

Sparse: Nonsymmetric Permute ... ok

Sparse: Symmetric Reverse Permute ... ok

Sparse: Nonsymmetric Reverse Permute ... ok

Sparse: Bandwidth ... ok

Sparse: Profile ... ok

Sparse: one-norm ... ok

Sparse: inf-norm ... ok

Circular Spin Chain Setup: compare unitary matrix for ISWAP and ... ok

Circular Spin Chain Setup: compare unitary matrix for SqrtISWAP and ... ok

Linear Spin Chain Setup: compare unitary matrix for ISWAP, SqrtISWAP, ... ok

Linear Spin Chain Setup: compare unitary matrix for ISWAP and ... ok

Linear Spin Chain Setup: compare unitary matrix for SqrtISWAP and ... ok

Linear Spin Chain Setup: compare unitary matrix for ISWAP, SqrtISWAP, ... ok

spmath: zcsr_kron ... ok

spmath: zcsr_transpose ... ok

spmath: zcsr_adjoint ... ok

spmath: zcsr_mult ... ok

states: coherent density matrix ... ok

states: coherent state ... ok

states: Fock density matrix ... ok

states: thermal density matrix ... ok

Test the states returned by function triplet_states are normalized. ... ok

Steady state: Thermal qubit - direct solver ... ok

Steady state: Thermal qubit - eigen solver ... ok

Steady state: Thermal qubit - power solver ... ok

Steady state: Thermal qubit - power-gmres solver ... ok

Steady state: Thermal qubit - power-bicgstab solver ... ok

Steady state: Thermal qubit - iterative-gmres solver ... ok

Steady state: Thermal qubit - iterative-bicgstab solver ... ok
Steady state: Thermal H0 - direct solver ... ok
Steady state: Thermal H0 - eigen solver ... ok
Steady state: Thermal H0 - power solver ... ok
Steady state: Thermal H0 - power-gmres solver ... ok
Steady state: Thermal H0 - power-bicgstab solver ... ok
Steady state: Thermal H0 - iterative-gmres solver ... ok
Steady state: Thermal H0 - iterative-bicgstab solver ... ok
Steady state: Driven cavity - direct solver ... ok
Steady state: Driven cavity - eigen solver ... ok
Steady state: Driven cavity - power solver ... ok
Steady state: Driven cavity - power-gmres solver ... ok
Steady state: Driven cavity - power-bicgstab solver ... ok
Steady state: Driven cavity - iterative-gmres solver ... ok
Steady state: Driven cavity - iterative-bicgstab solver ... ok
Stochastic: smesolve: homodyne methods with single jump operator ... ok
Stochastic: smesolve: photo-current ... ok
Stochastic: smesolve: homodyne ... ok
Stochastic: smesolve: heterodyne ... ok
Stochastic: ssesolve: photo-current ... ok
Stochastic: ssesolve: homodyne ... ok
Stochastic: ssesolve: heterodyne ... ok
Composite system, operator on Hilbert space. ... ok
Superoperator: Efficient numerics and reference return same result, ... ok
Non-composite system, operator on Hilbert space. ... ok
Non-composite system, operator on Liouville space. ... ok
Superoperator: Convert superoperator to Choi matrix and back. ... ok
Superoperator: to_choi(q) returns q if q is already Choi. ... ok
Superoperator: Converting two-qubit superoperator through ... ok
Superoperator: Converting superoperator to Choi matrix and back. ... ok
Superoperator: to_super(q) returns q if q is already a ... ok
qutip.tests.test_superop_reps.TestSuperopReps.test_chi_choi_roundtrip ... ok
Superoperator: Chi-matrix for known cases is correct. ... ok
Superoperator: Trace returned by to_choi matches docstring. ... ok
Superoperator: ishpc, iscp, istp and iscptp known cases. ... ok
Superoperator: Randomly generated superoperators are ... ok
Stinespring: Partial Tr over pair agrees w/ supermatrix. ... ok
Stinespring: A and B match for CP maps. ... ok
Stinespring: Check that dims of channels are preserved. ... ok

```
Superoperator: Randomized comparison of standard and reference ... ok
Superoperator: Conversion matrix to vector to matrix ... ok
Superoperator: apply operator and superoperator from right (spost) ... ok
Superoperator: apply operator and superoperator from left (spre) ... ok
Superoperator: Unitary transformation with operators and superoperators ... ok
Superoperator: Operator - vector - operator conversion. ... ok
Superoperator: Compatibility between matrix/vector and ... ok
Superoperator: Conversion between matrix and vector indices ... ok
Superoperator: Conversion vector to matrix to vector ... ok
qutip.tests.test_superoper.TestMatVec.test_resuffle ... ok
qutip.tests.test_superoper.TestMatVec.test_sprepost ... ok
td_format_check: monte-carlo ... ok
qutip.tests.test_tensor.test_tensor_contract_ident ... ok
qutip.tests.test_tensor.test_tensor_contract_other ... ok
qutip.tests.test_tensor.test_tensor_swap_other ... ok
Three-level atom: States ... ok
Three-level atom: Operators ... ok
utilities: energy unit conversions ... ok
wigner: test wigner function calculation for coherent states ... ok
wigner: test wigner function calculation for Fock states ... ok
wigner: compare wigner methods for random density matrices ... /
/Users/tejasshetty/anaconda3/lib/python3.6/site-packages/qutip/wigner.py:226: DeprecationWarning: `factorial` is deprecated!
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```

```
sqrt(factorial(m) / factorial(n)) *  
ok
```

```
wigner: compare wigner methods for random state vectors ... ok
```

```
Wigner: Compare Wigner fft and iterative for rand. ket ... ok
```

```
Wigner: Compare Wigner fft and iterative for rand. dm ... ok
```

```
Wigner: Compare Wigner clenshaw and iterative for rand. dm ... ok
```

```
Wigner: Compare Wigner sparse clenshaw and iterative for rand.  
dm ... ok
```

```
-----  
-----  
Ran 488 tests in 547.655s
```

```
OK (SKIP=9)
```

```
Traceback (most recent call last):
```

```
  File "<stdin>", line 1, in <module>
```

```
NameError: name 't' is not defined
```

```
>>>
```