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Experimental Condition

| | |
|--------------------|-------------|
| type of tomography | StandardQst |
| n_rep | 100 |
| num_data | [100, 1000] |

True Object

| | |
|------|-------------------------------|
| type | State |
| dim | 2 |
| vec | [0.70710678 0. 0. 0.70710678] |

Tester Objects

| | | |
|---|------------------------|--|
| 0 | type | Povm |
| | dim | 2 |
| | number of measurements | 2 |
| | vec | [0.70710678 0.70710678 0. 0.] [0.70710678 -0.70710678 0. 0.] |

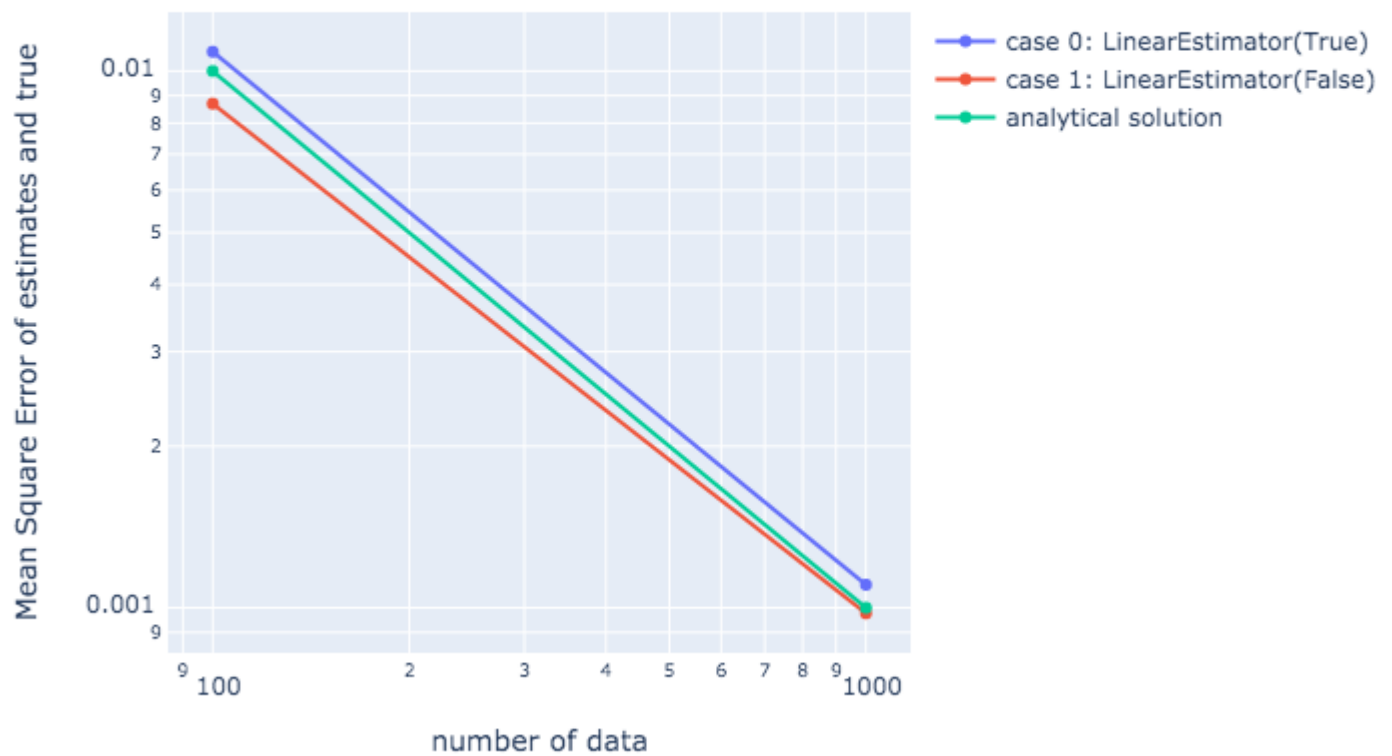
| | | |
|---|------------------------|--|
| 1 | type | Povm |
| | dim | 2 |
| | number of measurements | 2 |
| | vec | [0.70710678 0. 0.70710678 0.] [0.70710678 0. -0.70710678 0.] |
| 2 | type | Povm |
| | dim | 2 |
| | number of measurements | 2 |
| | vec | [0.70710678 0. 0. 0.70710678] [0.70710678 0. 0. -0.70710678] |

Cases

| | case_name | tomography | estimator |
|---|------------------------|-------------|-----------------|
| 0 | LinearEstimator(True) | StandardQst | LinearEstimator |
| 1 | LinearEstimator(False) | StandardQst | LinearEstimator |

MSE

Mean Square Value

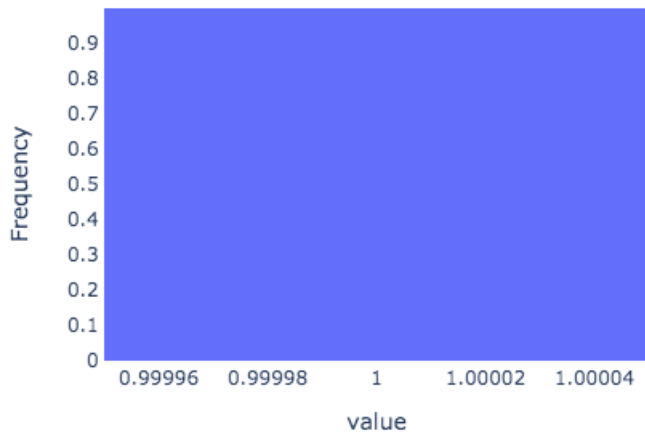


Physicality Violation Test

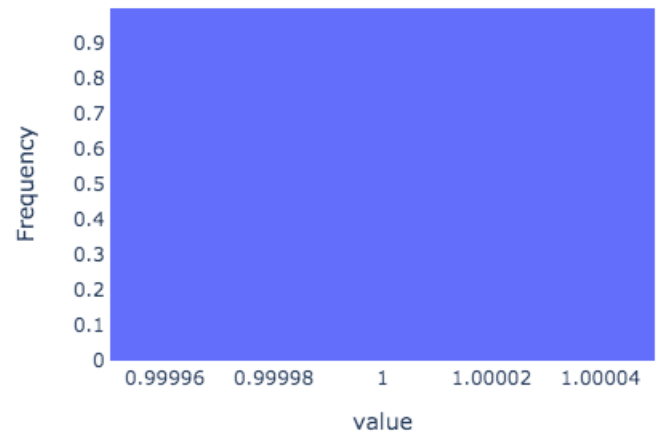
on_para_eq_constraint=True

case 0: LinearEstimator(True)

N=100, Nrep=100



N=1000, Nrep=100

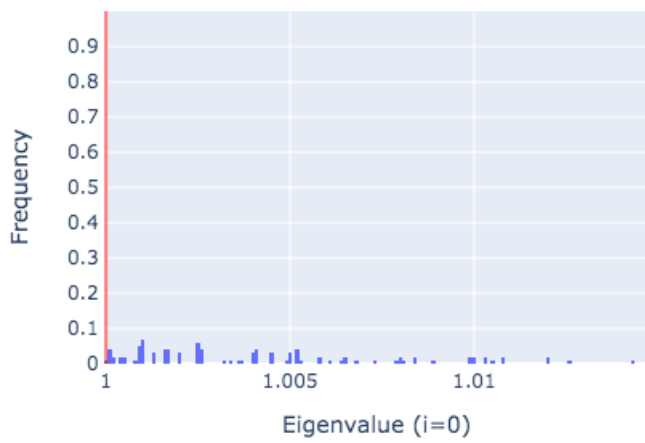


on_para_eq_constraint=False

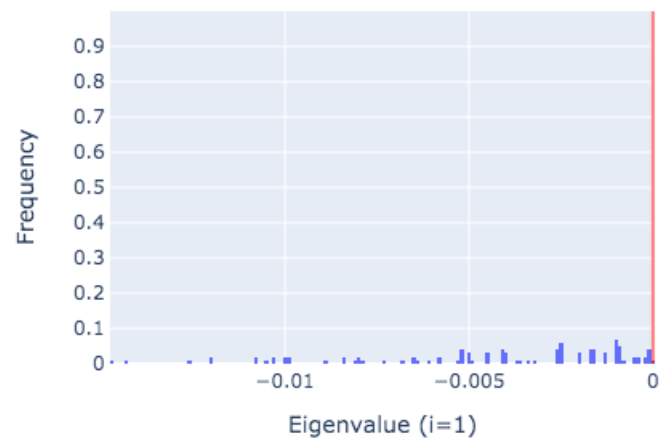
case 1: LinearEstimator(False)

Eigenvalue

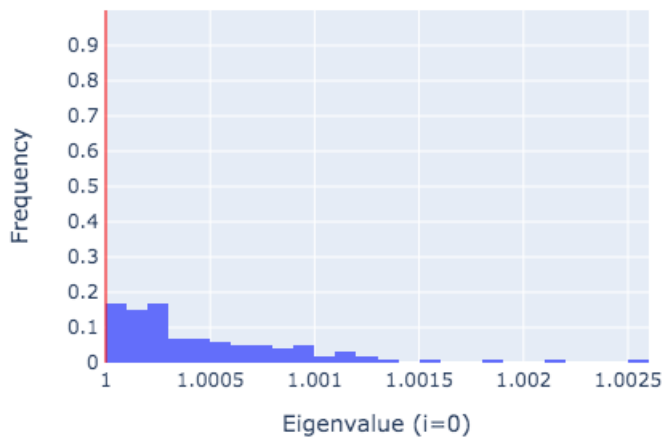
N=100, Nrep=100



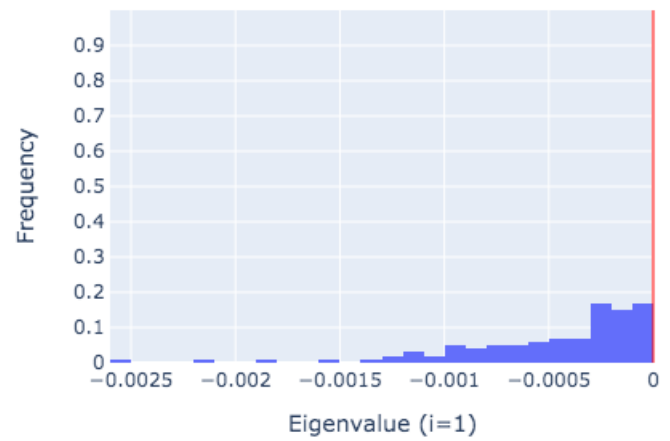
N=100, Nrep=100



N=1000, Nrep=100



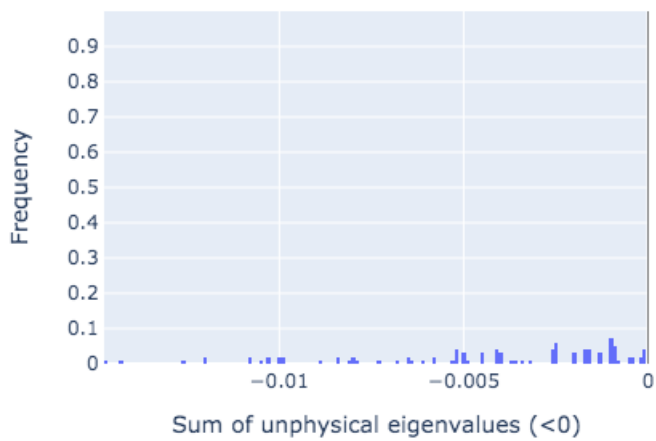
N=1000, Nrep=100



Sum of unphysical eigenvalues

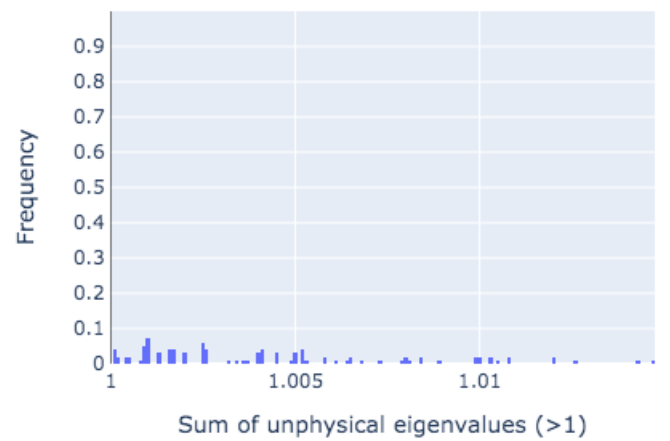
N=100, Nrep=100

Number of Unphysical estimates=99



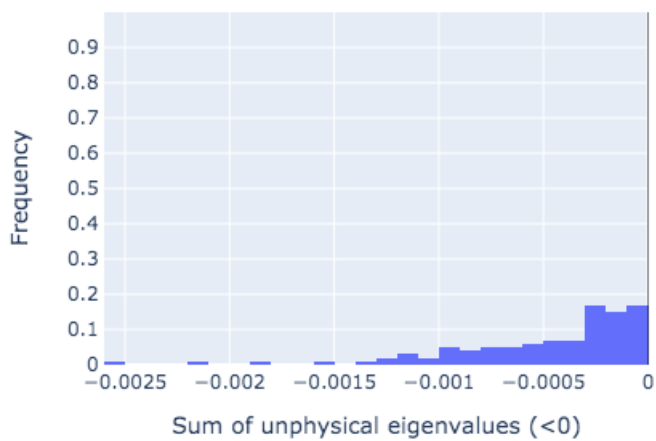
N=100, Nrep=100

Number of Unphysical estimates=99



N=1000, Nrep=100

Number of Unphysical estimates=100



N=1000, Nrep=100

Number of Unphysical estimates=100

