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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

	name	tomography	estimator
0	LinearEstimator(True)	StandardQst	LinearEstimator
1	LinearEstimator(False)	StandardQst	LinearEstimator

Consistency Test

(TODO)

MSE

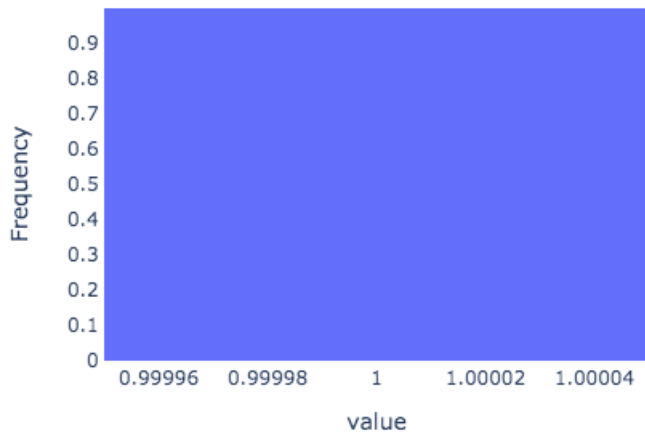## Mean Square Value

---
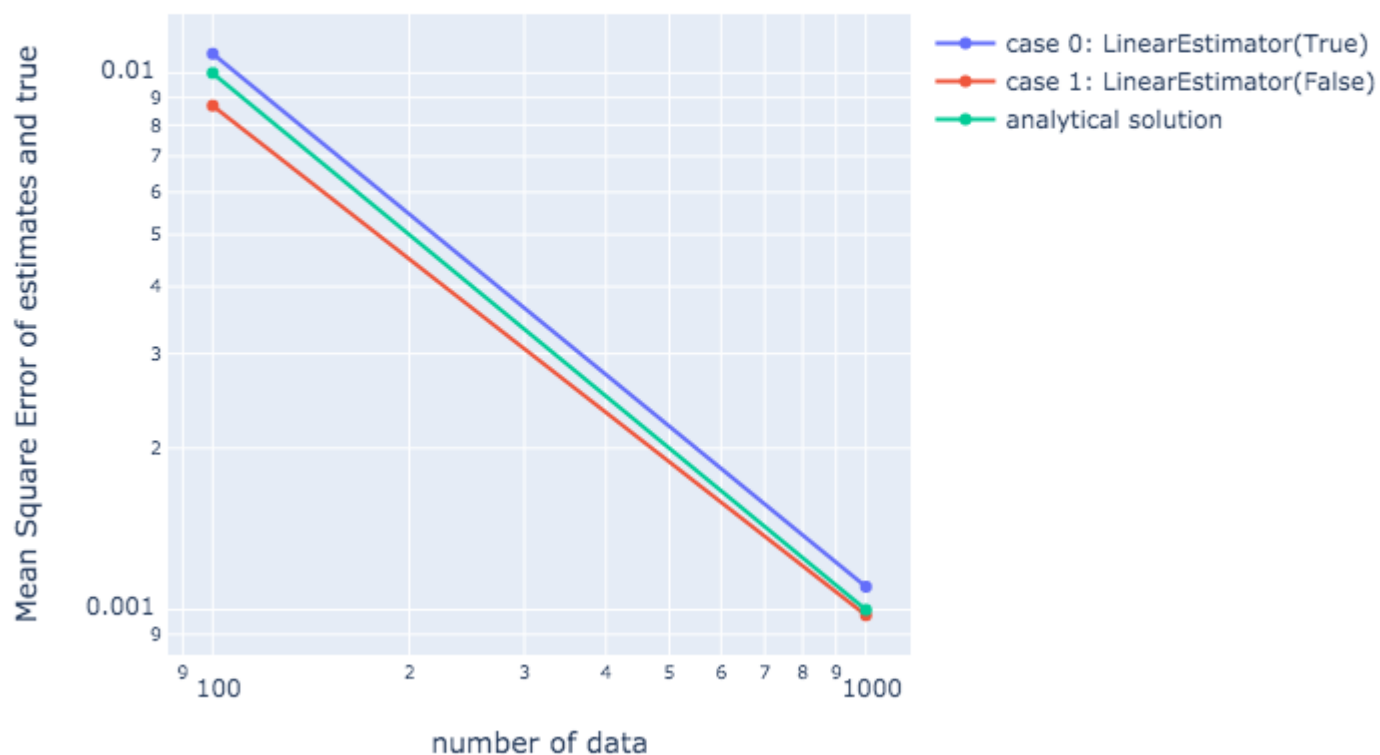
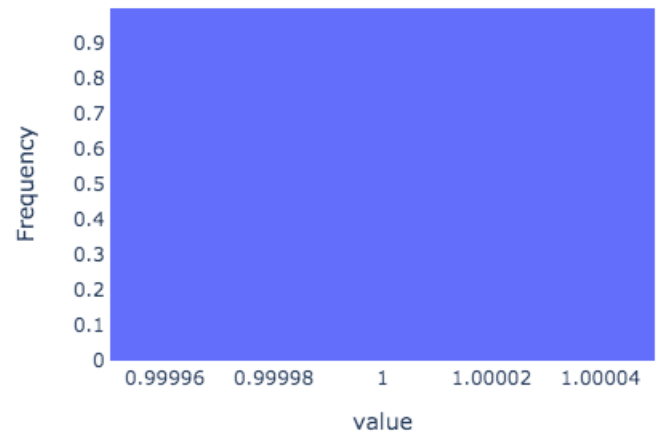# Physicality Violation Test

on_para_eq_constraint=True

case 0: LinearEstimator(True)
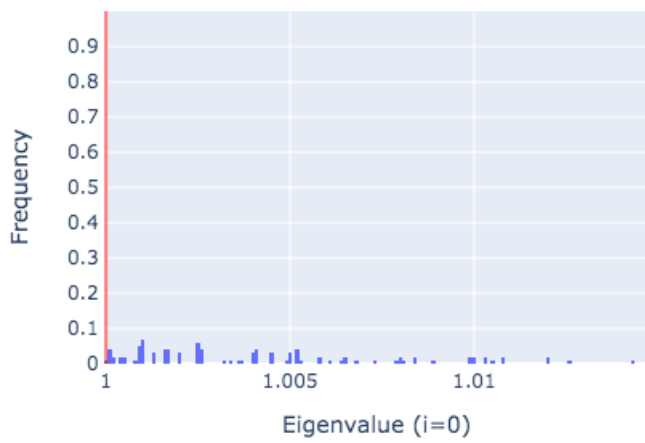
N=100, Nrep=100
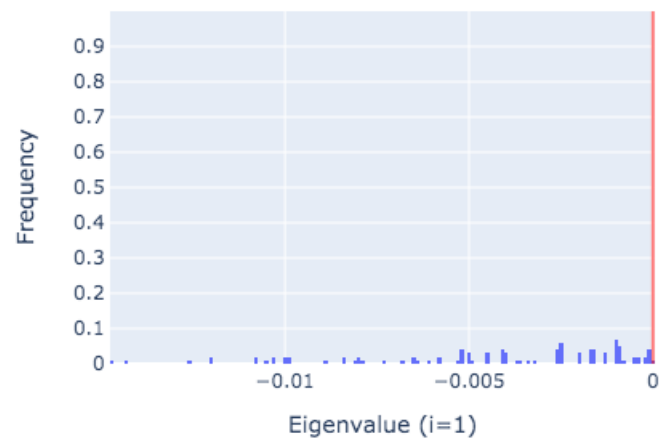
N=1000, Nrep=100

on_para_eq_constraint=False

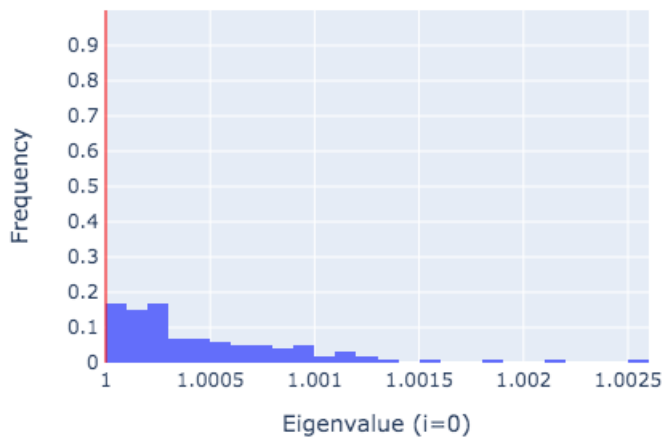## case 1: LinearEstimator(False)

Eigenvalue
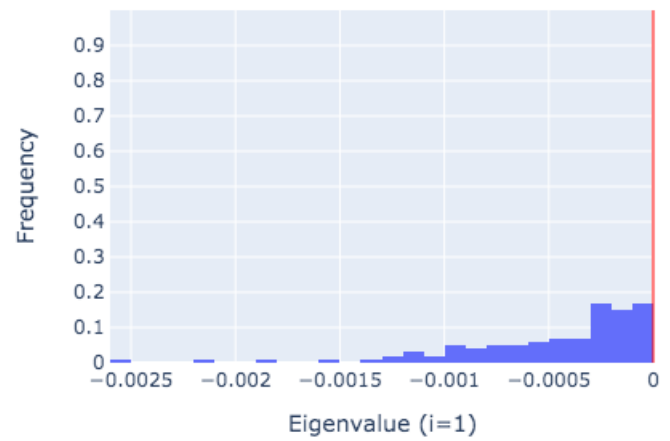
N=100, Nrep=100

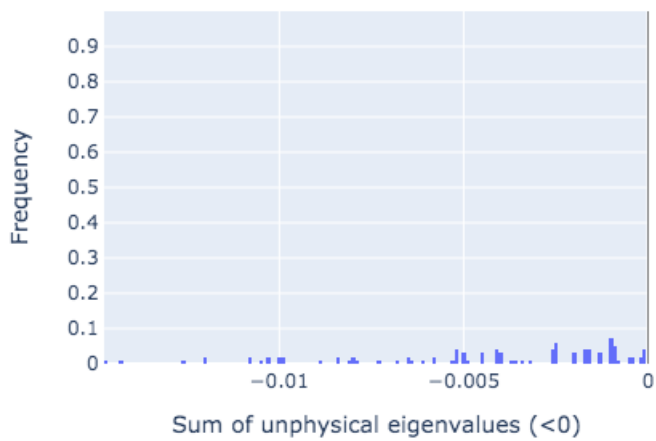N=100, Nrep=100

N=1000, Nrep=100

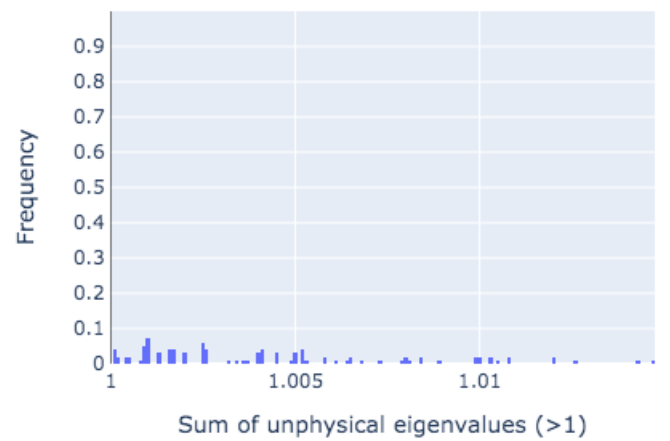N=1000, Nrep=100

Sum of unphysical eigenvalues

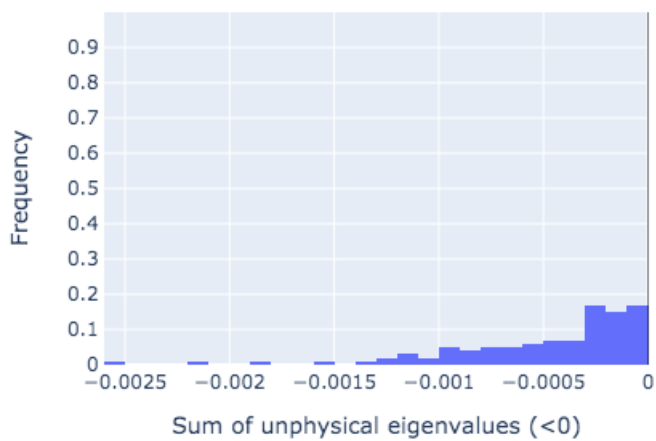N=100, Nrep=100
Number of Unphysical estimates=99

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

end