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Experimental Condition

type of tomography	StandardOst
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	2
	measurements	
		[0.70710678 0. 0.70710678 0.]
	vec	[0.70710678 00.70710678 0.]
2	type	Povm
	dim	2
	number of	2
	measurements	2
		[0.70710678 0. 0. 0.70710678]
	vec	[0.70710678 0. 00.70710678]

Cases

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

Consistency Test

(TODO)

MSE

Mean Square Value

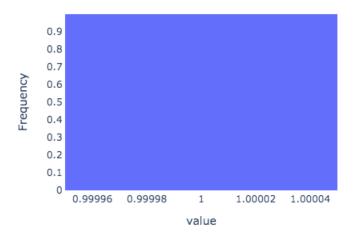


Physicality Violation Test

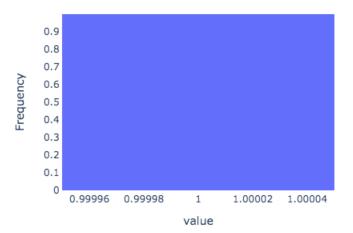
on_para_eq_constraint=True

case 0: LinearEstimator(True)





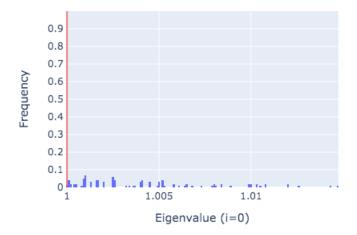
N=1000, Nrep=100



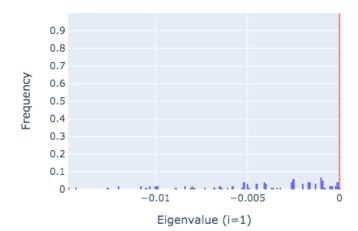
on_para_eq_constraint=False

case 1: LinearEstimator(False)

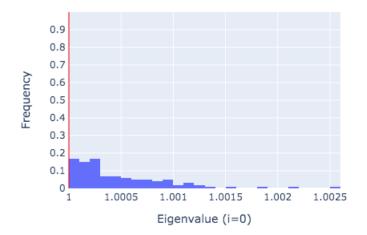
Eigenvalue



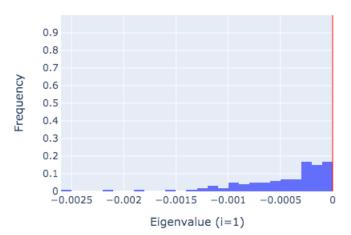
N=100, Nrep=100



N=1000, Nrep=100

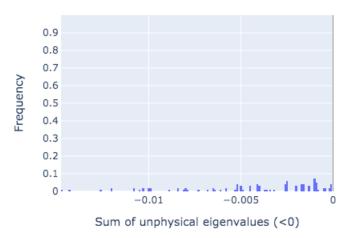


N=1000, Nrep=100

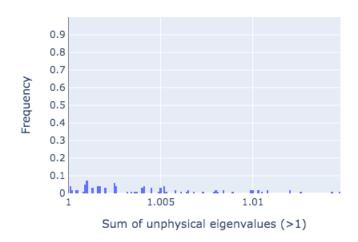


Sum of unphysical eigenvalues

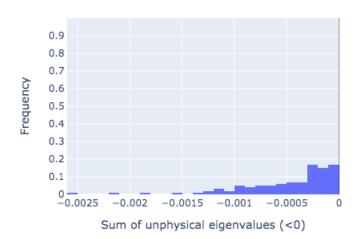
N=100, Nrep=100 Number of Unphysical estimates=99



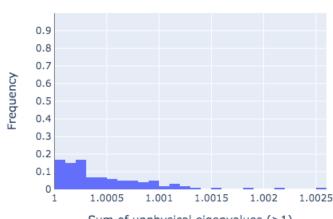
N=100, Nrep=100 Number of Unphysical estimates=99



N=1000, Nrep=100 Number of Unphysical estimates=100



N=1000, Nrep=100 Number of Unphysical estimates=100



Sum of unphysical eigenvalues (>1)