Table of contents

Table of contents	
Computation time	
Experimental condition	
True object	
Tester objects	2
Cases	:
MSE of empirical distributions	;
Consistency test	;
MSE of estimators	
Comparison of analytical results	
Comparison of parametrization	
Comparison of estimators	į

Computation time

Total	1.638522219657898min.

Experimental condition

StandardQpt	Type of tomography
100	Nrep
[100, 1000]	N
777	RNG seed

True object

Туре	Gate
Dim	2
нѕ	[[1.0000000e+00 0.0000000e+00 0.0000000e+00 0.0000000e+00]

1

Tester objects

0	Туре	State
	Dim	2
	Vec	[0.70710678 0.70710678 0. 0.] State
1	1 Туре	
	Dim	2
	Vec	[0.70710678 0. 0.70710678 0.]
2	Туре	State
	Dim	2
	Vec	[0.70710678 0. 0. 0.70710678]
3	Туре	State
	Dim	2
	Vec	[0.70710678 0. 00.70710678]
4	Туре	Povm
Dim		2
	Number of	2
	outcomes	_
	Vecs	[0.70710678 0.70710678 0. 0.]
		[0.70710678 -0.70710678 0. 0.]
5	Туре	Povm
	Dim	2
	Number of	2
	outcomes	_
	Vecs	[0.70710678 0. 0.70710678 0.]
		[0.70710678 00.70710678 0.]
6	Туре	Povm
	Dim	2
	Number of	2
	outcomes	_
	Vecs	[0.70710678 0. 0. 0.70710678]
		[0.70710678 0. 00.70710678]

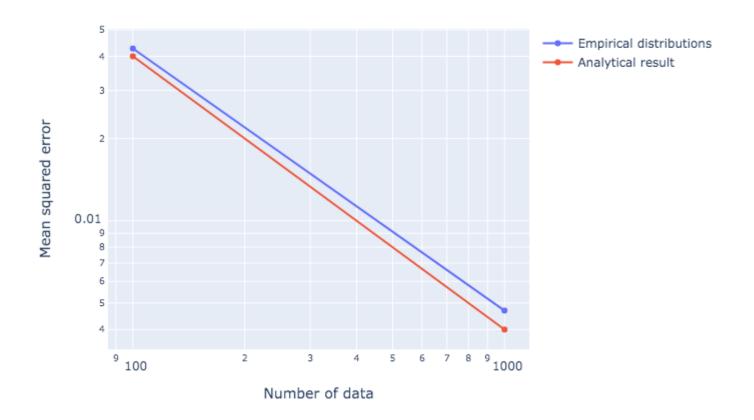
Cases

	Name	Parameterization	Tomography	Estimator
0	LinearEstimator(True)	True	StandardQpt	LinearEstimator
1	LinearEstimator(False)	False	StandardQpt	LinearEstimator

2	ProjectedLinearEstimator(True)	True	StandardQpt	ProjectedLinearEstimator
3	ProjectedLinearEstimator(False)	False	StandardQpt	ProjectedLinearEstimator

MSE of empirical distributions

Mean squared error

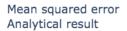


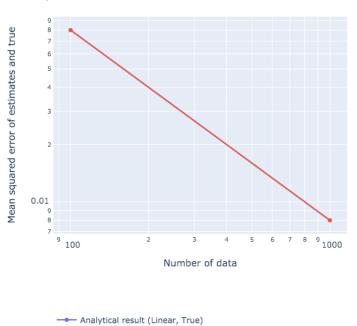
Consistency test

	Type of tomography	Parametorization	Estimator	Result
0	StandardQpt	True	LinearEstimator	8.654352e-32
1	StandardQpt	False	LinearEstimator	2.790508e-30
2	StandardQpt	True	ProjectedLinearEstimator	2.783589e-31

MSE of estimators

Comparison of analytical results

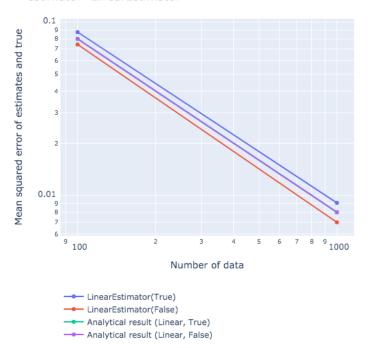




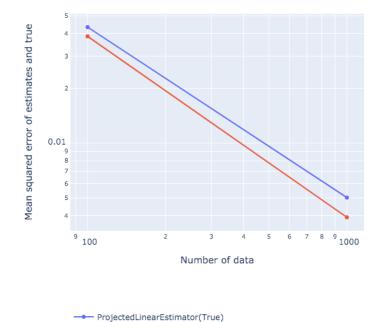
Comparison of parametrization

Analytical result (Linear, False)

Mean squared error estimator=LinearEstimator



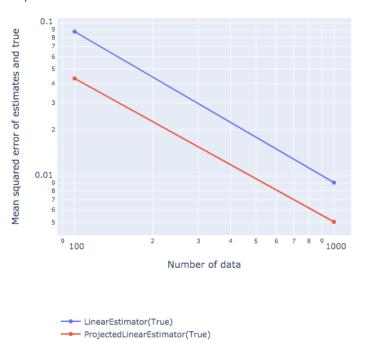
Mean squared error estimator=ProjectedLinearEstimator



ProjectedLinearEstimator(False)

Comparison of estimators

Mean squared error parametrization=True



Mean squared error parametrization=False



LinearEstimator(False)ProjectedLinearEstimator(False)