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Computation time

Total	1.6268102765083312min.

Experimental condition

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

True object

Type	Gate
Dim	2
HS	[[1.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00]

Tester objects

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

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	9.123974e-32
1	StandardQpt	False	LinearEstimator	2.549862e-30
2	StandardQpt	True	ProjectedLinearEstimator	2.890327e-30

3	StandardQpt		False	ProjectedLinearEstimator	2.653654e-30

MSE of estimators

Comparison of analytical results
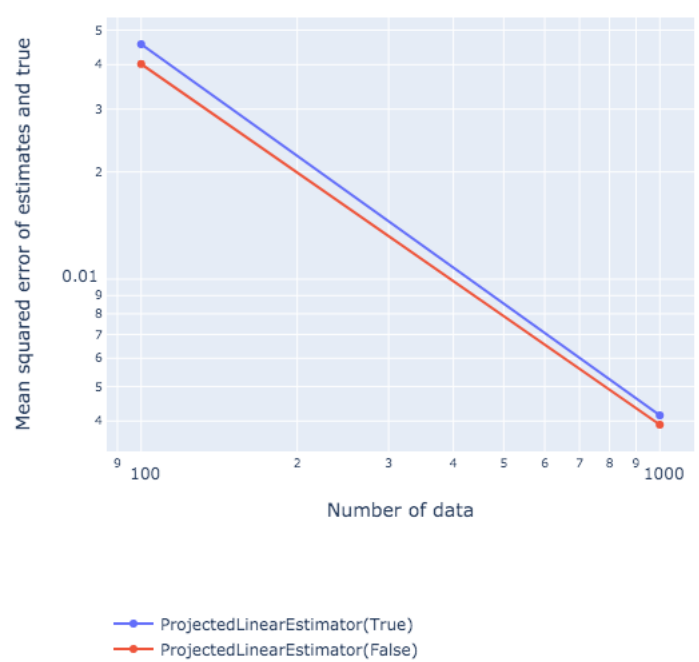

Mean squared error
Analytical result
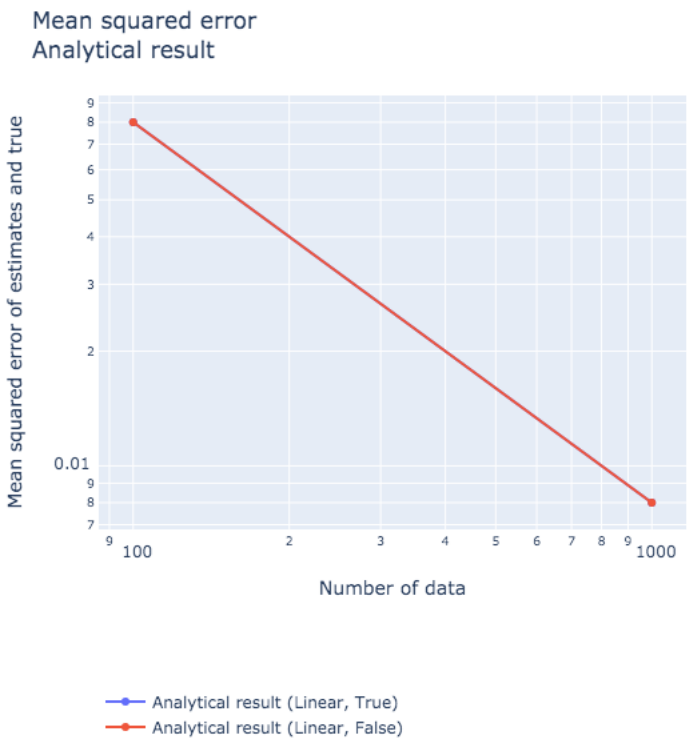
Comparison of parametrization

Mean squared error
estimator=LinearEstimator
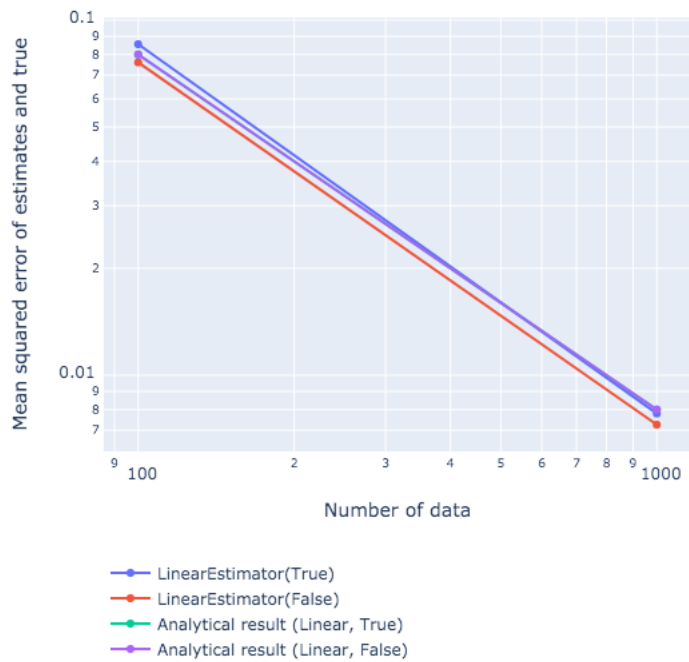
Mean squared error
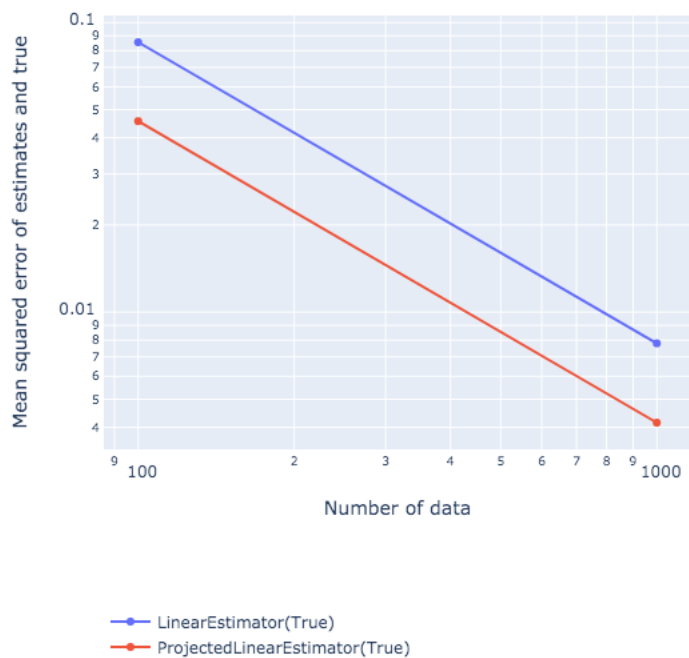### estimator=ProjectedLinearEstimator

Comparison of estimators

Mean squared error
parametrization=True

Mean squared error
parametrization=False