

Table of contents

| | |
|---|----|
| Table of contents | 1 |
| Computation time in total | 1 |
| Tolerance of physicality constraint violation | 1 |
| Experimental condition | 1 |
| True object | 2 |
| Tester objects | 2 |
| Cases | 2 |
| Computation time of estimators | 3 |
| Table | 3 |
| Histogram | 3 |
| MSE of empirical distributions | 7 |
| Consistency test | 8 |
| MSE of estimators | 9 |
| Comparison of analytical results | 9 |
| Comparison of parametrization | 10 |
| Comparison of estimators | 11 |
| Physicality violation test | 12 |
| Test of equality constraint violation | 12 |
| Test of inequality constraint violation | 15 |
| Eigenvalue | 15 |
| Sum of unphysical eigenvalues | 23 |

Computation time in total

| | |
|-------|------------------------|
| Total | 0.6180076162020366min. |
|-------|------------------------|

Tolerance of physicality constraint violation

| | | True | False |
|---|-----------------------|----------|----------|
| Tolerance at physicality violation test | equality constraint | 1.00e-13 | 1.00e-05 |
| | inequality constraint | 1.00e-05 | 1.00e-05 |

Experimental condition

| | |
|--------------------|-------------|
| Type of tomography | StandardQst |
| Nrep | 10 |
| N | [10, 100] |
| RNG seed | 777 |

True object

| | |
|------|-------------------------------|
| Type | State |
| Dim | 2 |
| Vec | [0.70710678 0. 0. 0.6363961] |

Tester objects

| | | |
|---|--------------------|---|
| 0 | Type | Povm |
| | Dim | 2 |
| | Number of outcomes | 2 |
| | Vecs | [[0.70710678 0.6363961 0. 0.] [0.70710678 -0.6363961 0. 0.]] |
| 1 | Type | Povm |
| | Dim | 2 |
| | Number of outcomes | 2 |
| | Vecs | [[0.70710678 0. 0.6363961 0.] [0.70710678 0. -0.6363961 0.]] |
| 2 | Type | Povm |
| | Dim | 2 |
| | Number of outcomes | 2 |
| | Vecs | [[0.70710678 0. 0. 0.6363961] [0.70710678 0. 0. -0.6363961]] |

Cases

| | Name | Param | Tomography | Estimator |
|---|----------------------------|-------|-------------|------------------|
| 0 | Linear (True) | True | StandardQst | Linear |
| 1 | Linear (False) | False | StandardQst | Linear |
| 2 | ProjectedLinear (True) | True | StandardQst | ProjectedLinear |
| 3 | ProjectedLinear (False) | False | StandardQst | ProjectedLinear |
| 4 | Maximum-Likelihood (True) | True | StandardQst | LossMinimization |
| 5 | Maximum-Likelihood (False) | False | StandardQst | LossMinimization |

| | | | | |
|---|-----------------------|-------|-------------|------------------|
| 6 | Least Squares (True) | True | StandardQst | LossMinimization |
| 7 | Least Squares (False) | False | StandardQst | LossMinimization |

Computation time of estimators

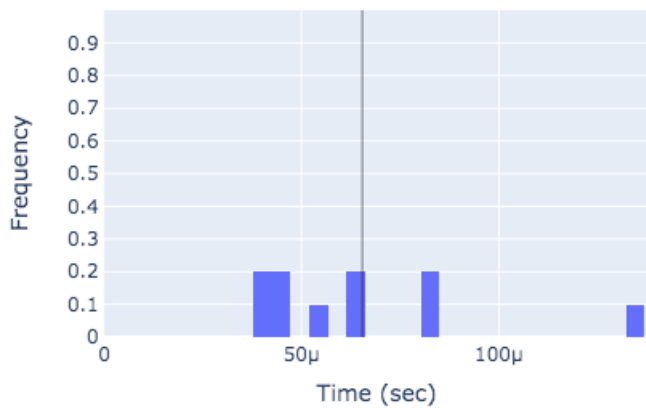
Table

| | Name | N | Nrep | Mean (sec) | Std (sec) |
|----|----------------------------|-----|------|------------|-----------|
| 0 | Linear (True) | 10 | 10 | 0.000065 | 0.000027 |
| 1 | " | 100 | 10 | 0.000050 | 0.000016 |
| 2 | Linear (False) | 10 | 10 | 0.000056 | 0.000019 |
| 3 | " | 100 | 10 | 0.000055 | 0.000043 |
| 4 | ProjectedLinear (True) | 10 | 10 | 0.007711 | 0.005286 |
| 5 | " | 100 | 10 | 0.002479 | 0.003781 |
| 6 | ProjectedLinear (False) | 10 | 10 | 0.008206 | 0.005727 |
| 7 | " | 100 | 10 | 0.003273 | 0.005021 |
| 8 | Maximum-Likelihood (True) | 10 | 10 | 0.488195 | 0.081861 |
| 9 | " | 100 | 10 | 0.428425 | 0.080186 |
| 10 | Maximum-Likelihood (False) | 10 | 10 | 1.221275 | 1.652704 |
| 11 | " | 100 | 10 | 1.335999 | 1.436334 |
| 12 | Least Squares (True) | 10 | 10 | 0.047353 | 0.007416 |
| 13 | " | 100 | 10 | 0.044077 | 0.006829 |
| 14 | Least Squares (False) | 10 | 10 | 0.058900 | 0.012729 |
| 15 | " | 100 | 10 | 0.061927 | 0.012648 |

Histogram

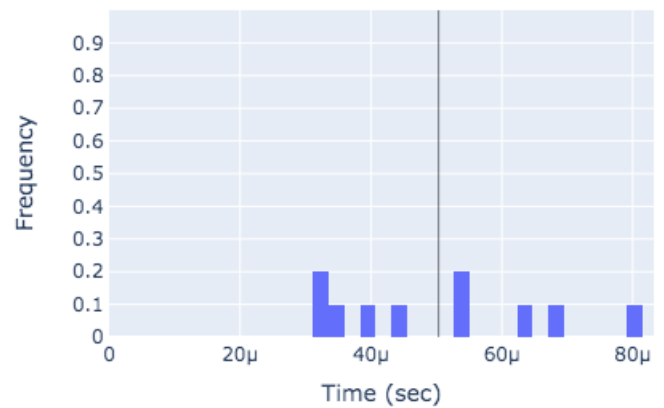
Case 0: Linear (True)

N=10, Nrep=10
Mean = 6.53982162475586e-05(sec)



Min: 3.886222839355469e-05
Max: 0.00013327598571777344
|Max-Min|: 9.441375732421875e-05

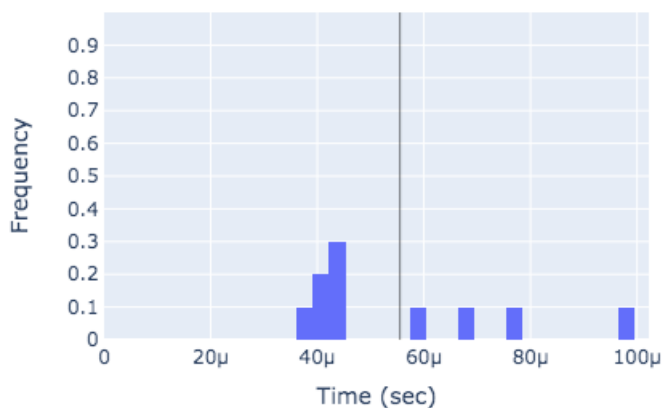
N=100, Nrep=10
Mean = 5.033016204833984e-05(sec)



Min: 3.2901763916015625e-05
Max: 8.082389831542969e-05
|Max-Min|: 4.792213439941406e-05

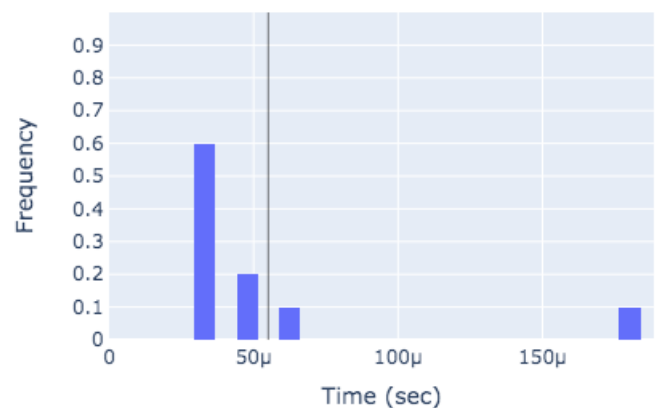
Case 1: Linear (False)

N=10, Nrep=10
Mean = 5.550384521484375e-05(sec)



Min: 3.886222839355469e-05
Max: 9.918212890625e-05
|Max-Min|: 6.031990051269531e-05

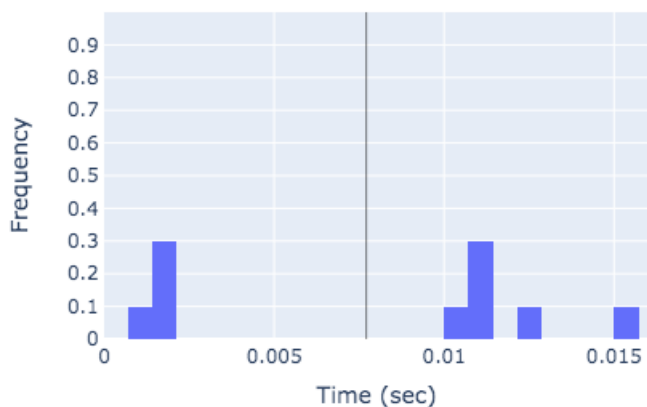
N=100, Nrep=10
Mean = 5.507469177246094e-05(sec)



Min: 3.409385681152344e-05
Max: 0.0001811981201171875
|Max-Min|: 0.00014710426330566406

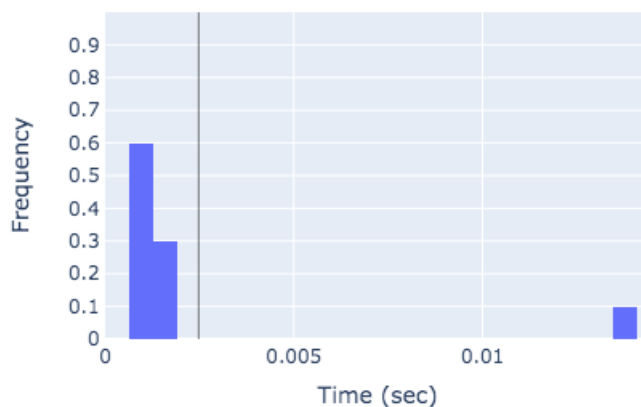
Case 2: ProjectedLinear (True)

N=10, Nrep=10
Mean = 0.007711195945739746(sec)



Min: 0.001016855239868164
Max: 0.015308856964111328
|Max-Min|: 0.014292001724243164

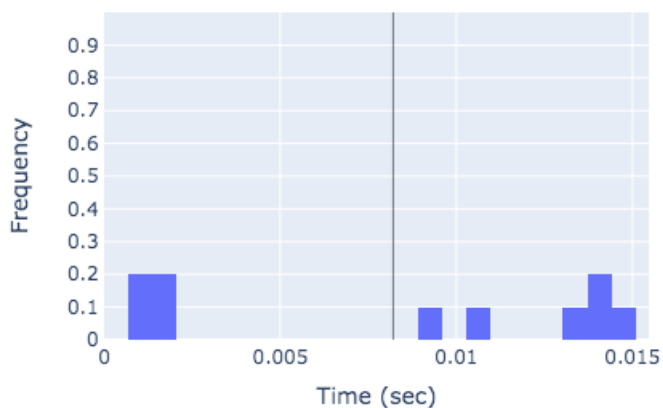
N=100, Nrep=10
Mean = 0.0024785518646240233(sec)



Min: 0.0009851455688476562
Max: 0.013794660568237305
|Max-Min|: 0.012809514999389648

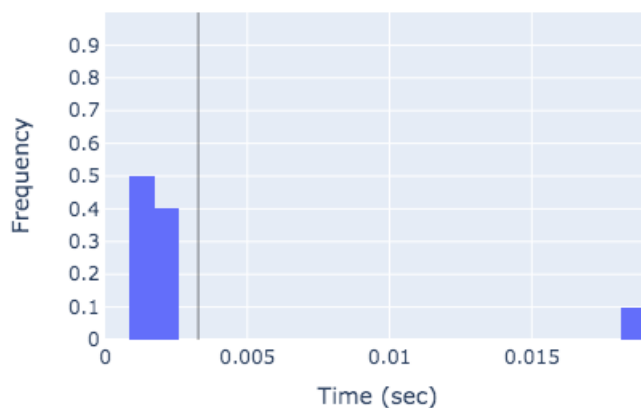
Case 3: ProjectedLinear (False)

N=10, Nrep=10
Mean = 0.00820624828338623(sec)



Min: 0.0010631084442138672
Max: 0.014777898788452148
|Max-Min|: 0.013714790344238281

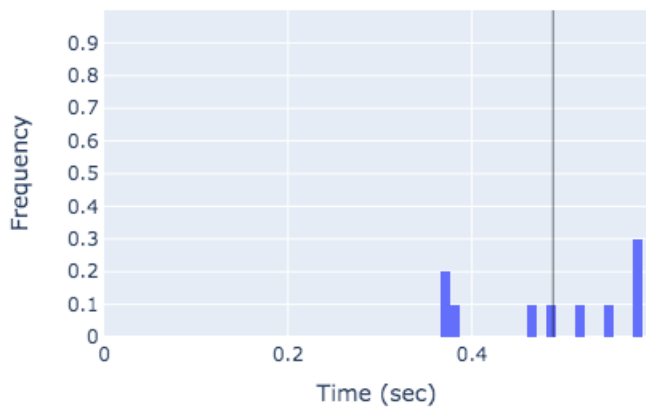
N=100, Nrep=10
Mean = 0.0032728910446166992(sec)



Min: 0.0010020732879638672
Max: 0.018285512924194336
|Max-Min|: 0.01728343963623047

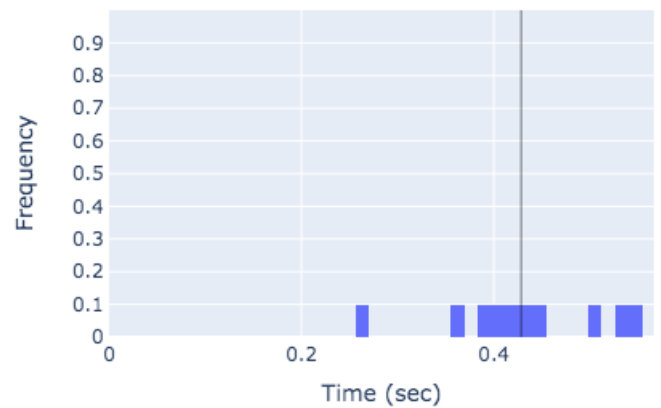
Case 4: Maximum-Likelihood (True)

N=10, Nrep=10
Mean = 0.48819494247436523(sec)



Min: 0.372650146484375
Max: 0.5818569660186768
|Max-Min|: 0.20920681953430176

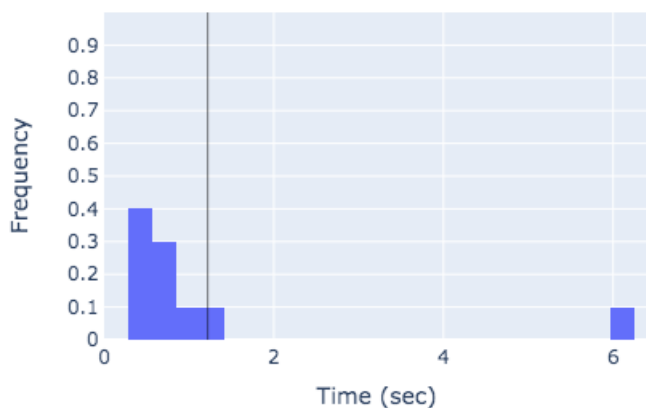
N=100, Nrep=10
Mean = 0.4284247159957886(sec)



Min: 0.2678561210632324
Max: 0.5522170066833496
|Max-Min|: 0.2843608856201172

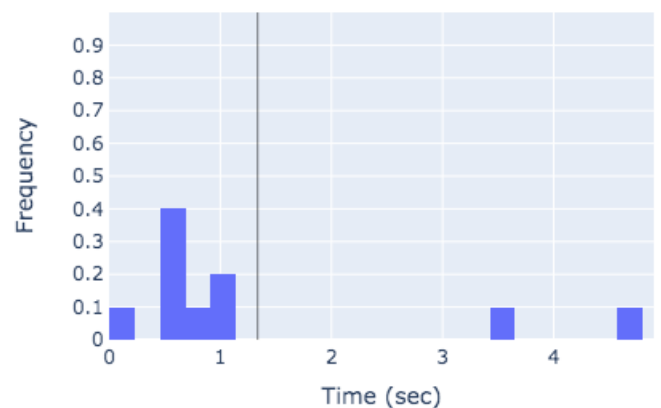
Case 5: Maximum-Likelihood (False)

N=10, Nrep=10
Mean = 1.2212751865386964(sec)



Min: 0.44734716415405273
Max: 6.136350870132446
|Max-Min|: 5.6890037059783936

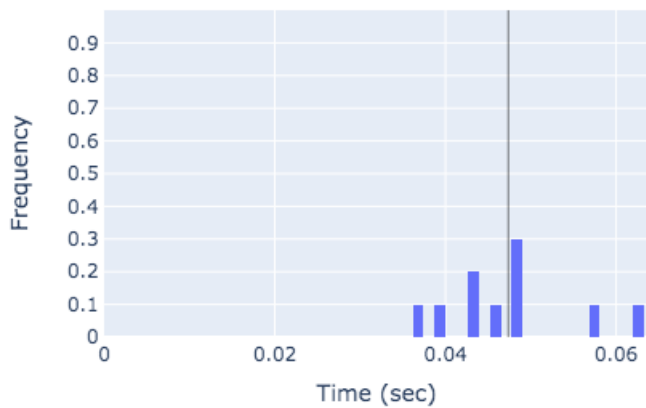
N=100, Nrep=10
Mean = 1.3359986066818237(sec)



Min: 0.10594916343688965
Max: 4.672011137008667
|Max-Min|: 4.566061973571777

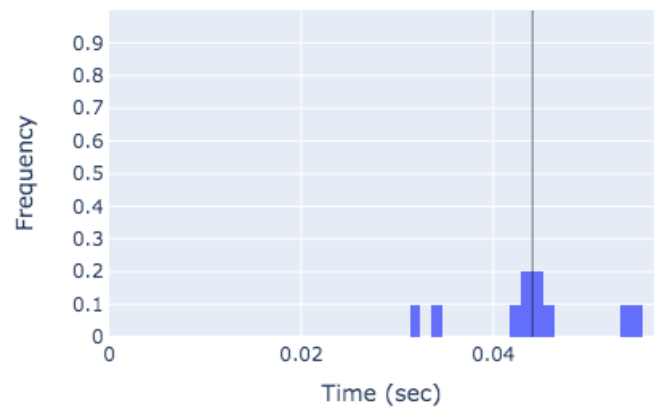
Case 6: Least Squares (True)

N=10, Nrep=10
Mean = 0.04735319614410401(sec)



Min: 0.036714792251586914
Max: 0.06253504753112793
|Max-Min|: 0.025820255279541016

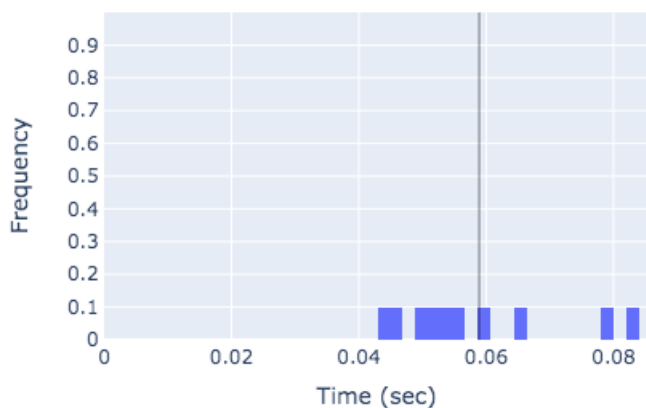
N=100, Nrep=10
Mean = 0.044076728820800784(sec)



Min: 0.032384634017944336
Max: 0.055548906326293945
|Max-Min|: 0.02316427230834961

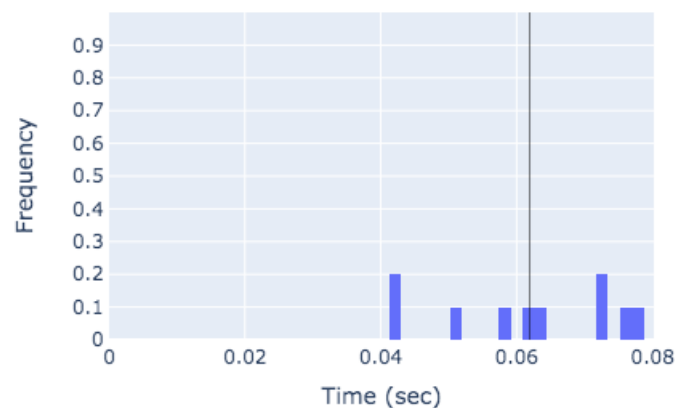
Case 7: Least Squares (False)

N=10, Nrep=10
Mean = 0.05890040397644043(sec)



Min: 0.04453301429748535
Max: 0.08359503746032715
|Max-Min|: 0.0390620231628418

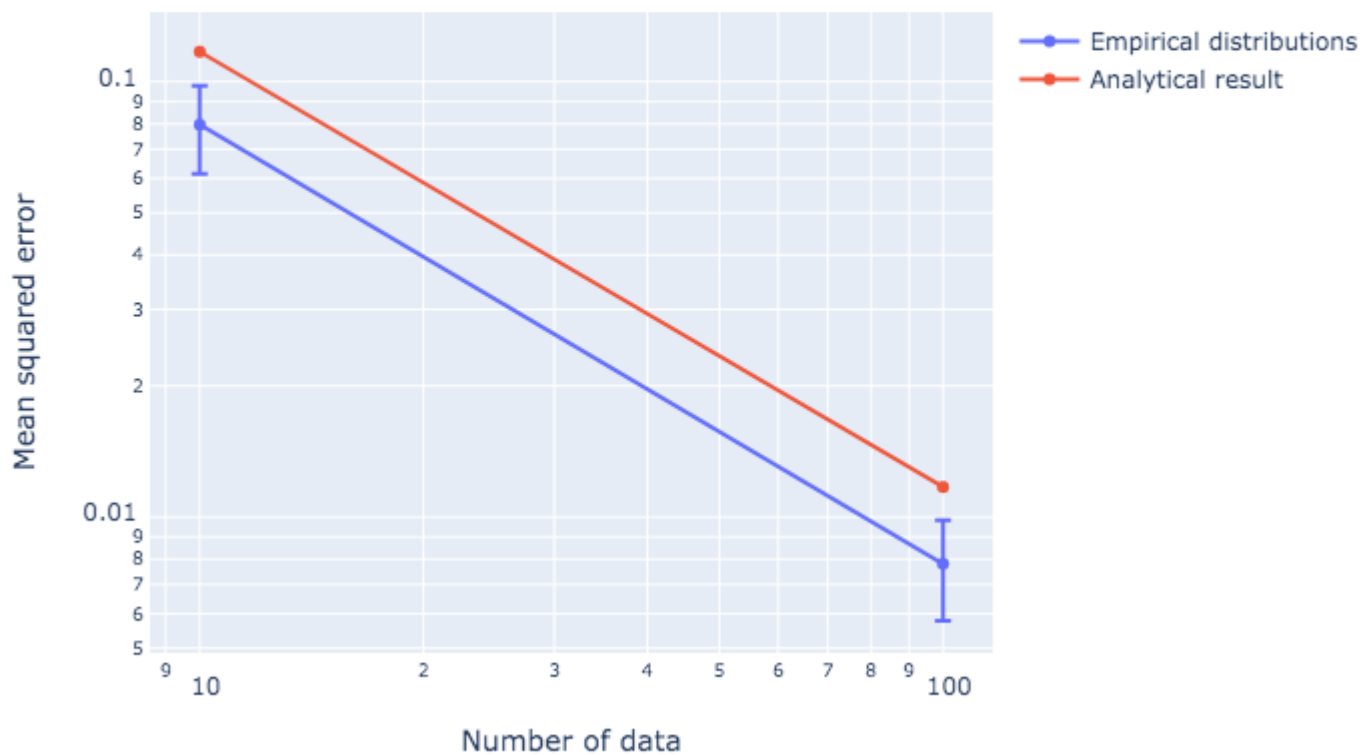
N=100, Nrep=10
Mean = 0.06192672252655029(sec)



Min: 0.04259800910949707
Max: 0.07841110229492188
|Max-Min|: 0.035813093185424805

MSE of empirical distributions

Mean squared error



Consistency test

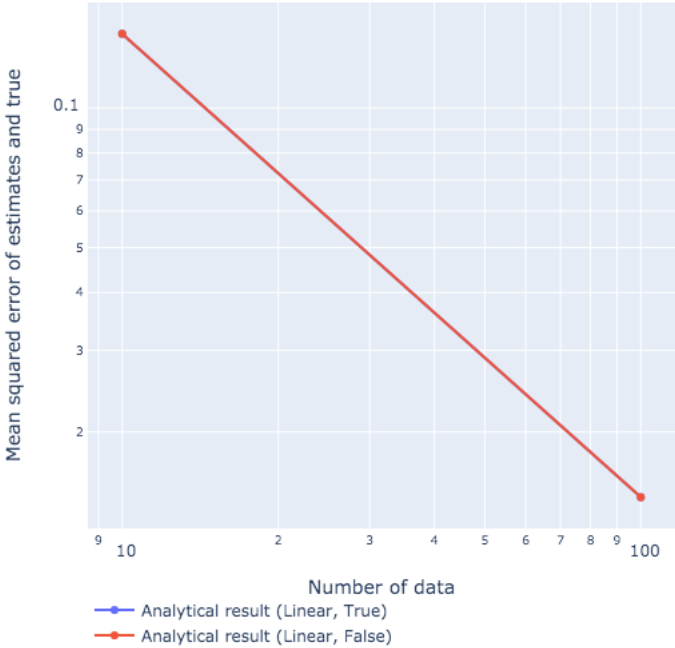
| | Name | Type of tomography | Param | Estimator | Loss | Algo | Squared Error to True | Possibly OK | To be checked |
|---|----------------------------|--------------------|-------|-------------------|--|---|-----------------------|-------------|----------------|
| 0 | Linear (True) | Standard Qst | True | Linear | None | None | 0.00e+00 | OK | not need debug |
| 1 | Linear (False) | Standard Qst | False | Linear | None | None | 2.47e-32 | OK | not need debug |
| 2 | ProjectedLinear (True) | Standard Qst | True | Projected Linear | None | None | 1.23e-32 | OK | not need debug |
| 3 | ProjectedLinear (False) | Standard Qst | False | Projected Linear | None | None | 1.11e-31 | OK | not need debug |
| 4 | Maximum-Likelihood (True) | Standard Qst | True | Loss Minimization | Weighted Relative Entropy | Projected Gradient Descent Backtracking | 3.21e-18 | OK | not need debug |
| 5 | Maximum-Likelihood (False) | Standard Qst | False | Loss Minimization | Weighted Relative Entropy | Projected Gradient Descent Backtracking | 5.47e-09 | NG | not need debug |
| 6 | Least Squares (True) | Standard Qst | True | Loss Minimization | Weighted Probability Based Squared Error | Projected Gradient Descent Backtracking | 4.93e-32 | OK | not need debug |

| | | | | | | | | | |
|---|-----------------------|--------------|-------|-------------------|--|---|----------|----|----------------|
| 7 | Least Squares (False) | Standard Qst | False | Loss Minimization | Weighted Probability Based Squared Error | Projected Gradient Descent Backtracking | 1.60e-31 | OK | not need debug |
|---|-----------------------|--------------|-------|-------------------|--|---|----------|----|----------------|

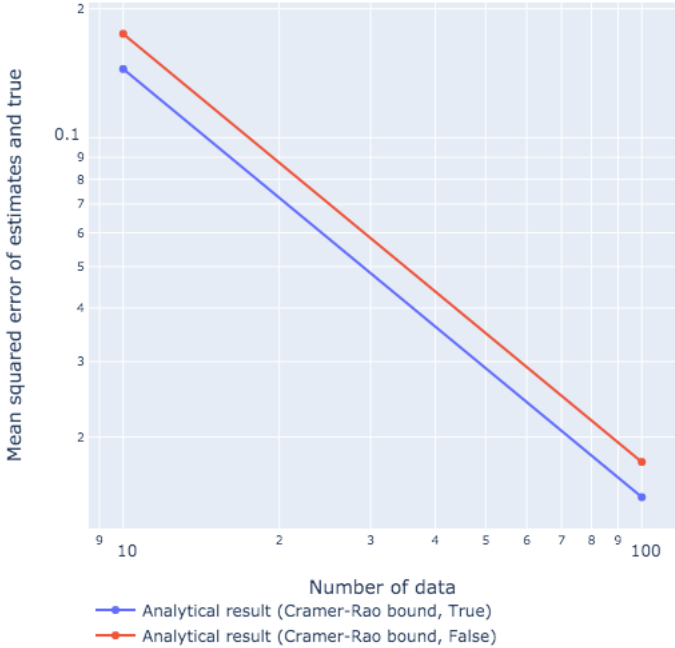
MSE of estimators

Comparison of analytical results

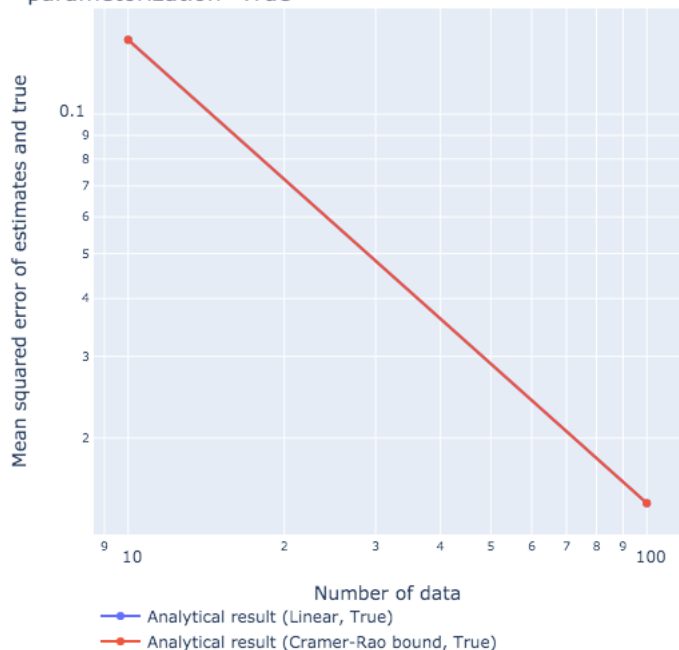
Mean squared error
Analytical result
estimator=Linear



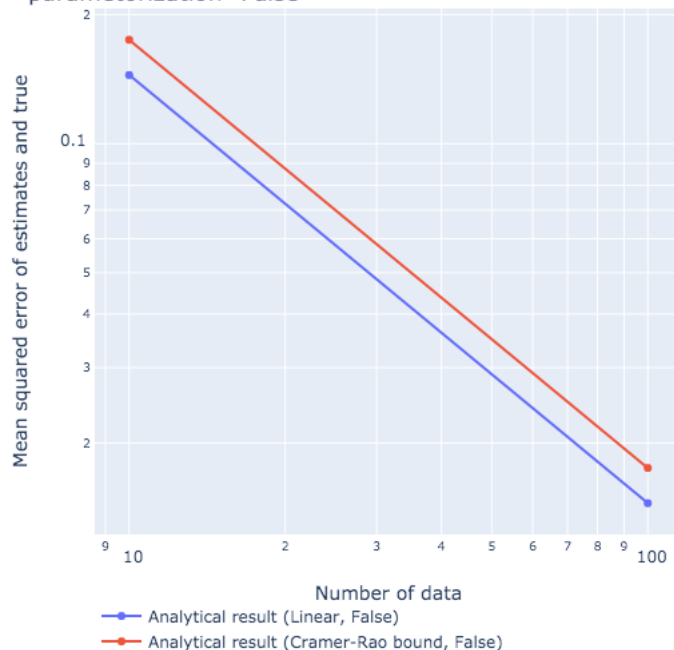
Mean squared error
Analytical result
Cramer-Rao bound



Mean squared error
Analytical result
parameterization=True

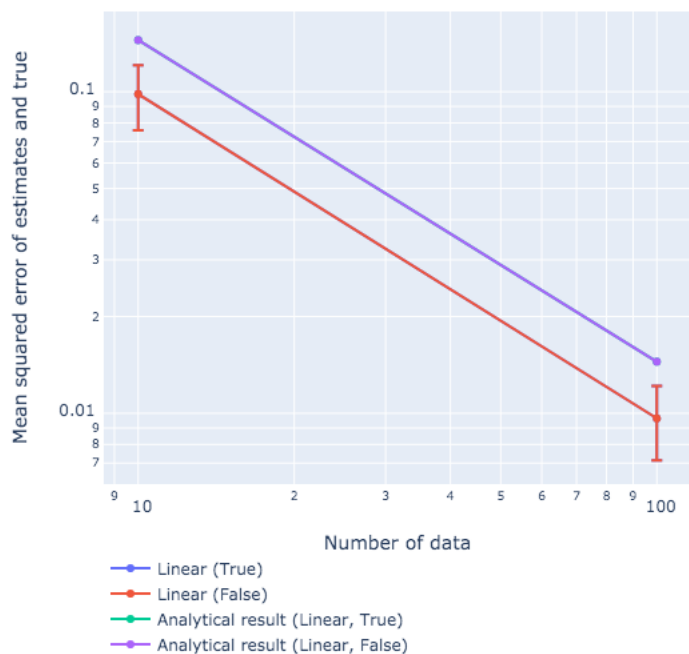


Mean squared error
Analytical result
parameterization=False

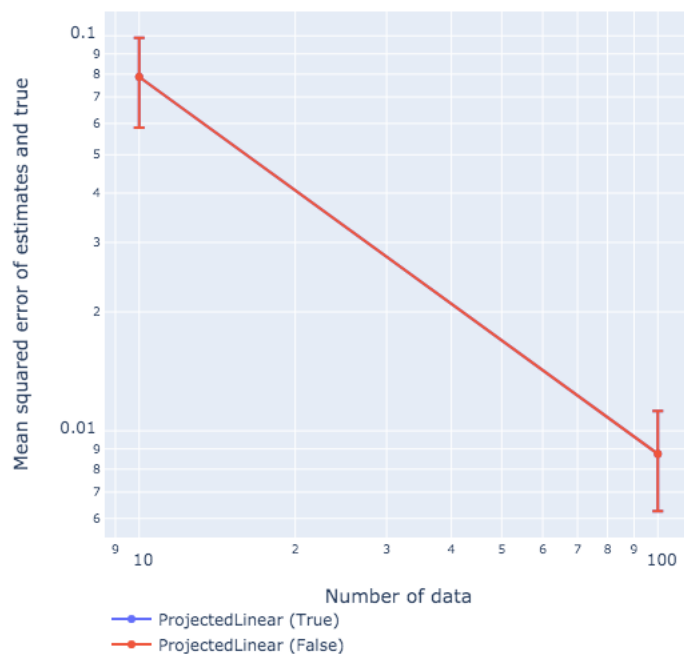


Comparison of parametrization

Mean squared error
Estimator=Linear



Mean squared error
Estimator=ProjectedLinear

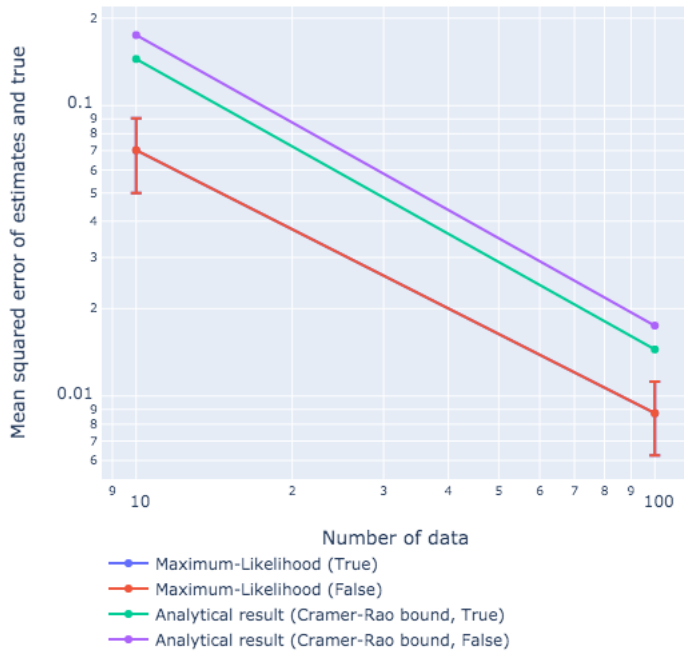


Mean squared error

Estimator=LossMinimization

Loss=WeightedRelativeEntropy

Algo=ProjectedGradientDescentBacktracking

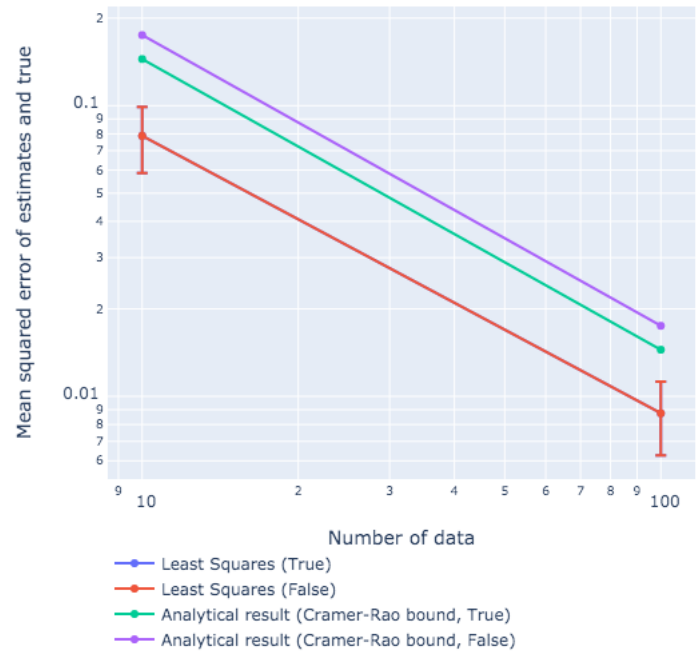


Mean squared error

Estimator=LossMinimization

Loss=WeightedProbabilityBasedSquaredError

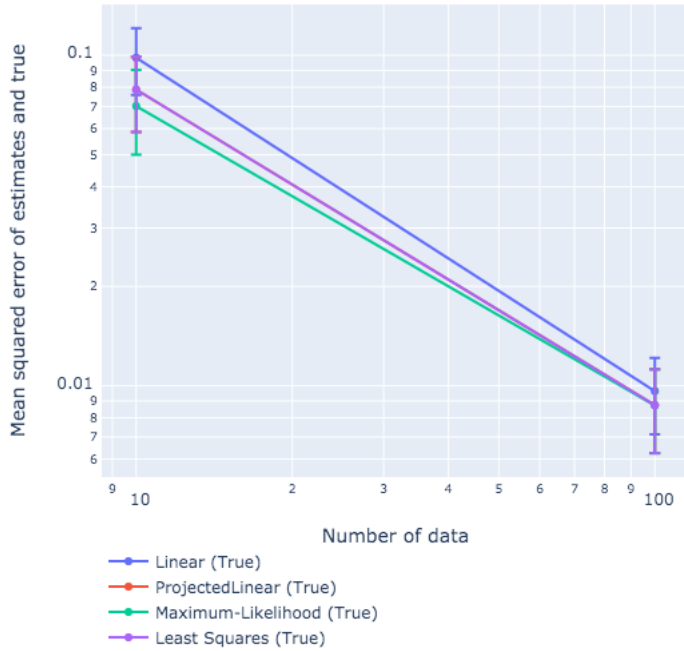
Algo=ProjectedGradientDescentBacktracking



Comparison of estimators

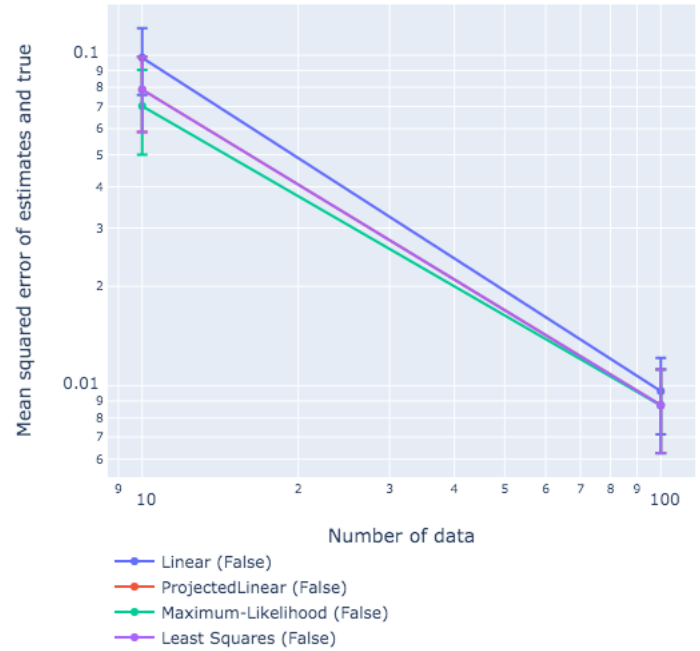
Mean squared error

parametrization=True



Mean squared error

parametrization=False

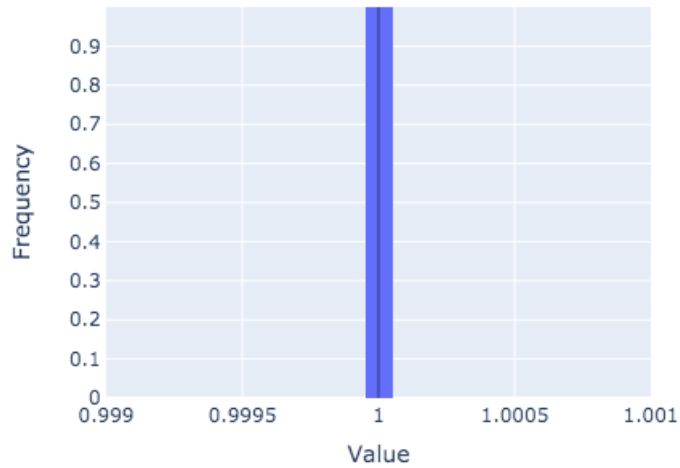


Physicality violation test

Test of equality constraint violation

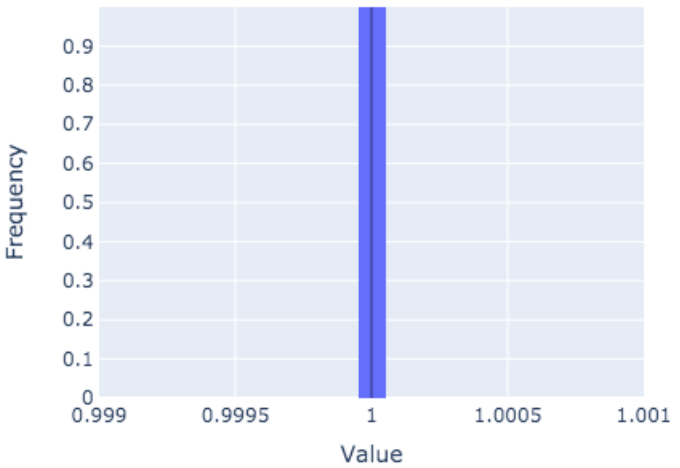
Case 0: Linear (True)

N=10, Nrep=10



Min: 0.9999999999999997
Max: 0.9999999999999998
|Max-Min|: 1.1102230246251565e-16

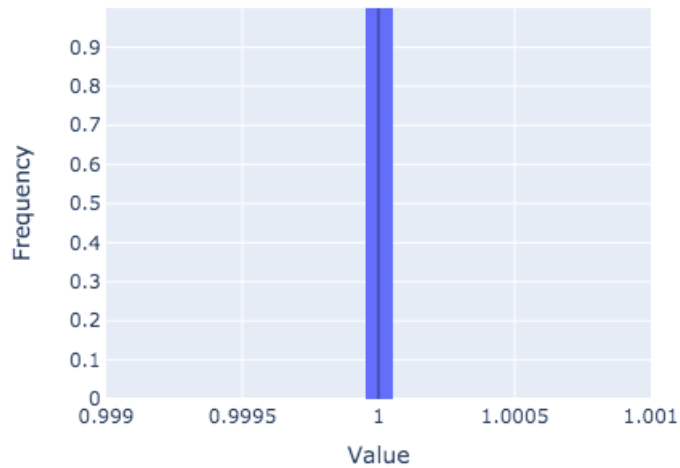
N=100, Nrep=10



Min: 0.9999999999999998
Max: 0.9999999999999998
|Max-Min|: 0.0

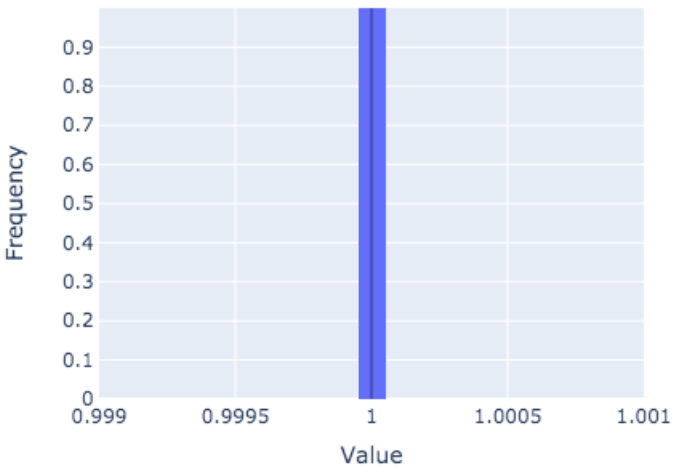
Case 1: Linear (False)

N=10, Nrep=10



Min: 0.9999999999999998
Max: 1.0000000000000002
|Max-Min|: 4.440892098500626e-16

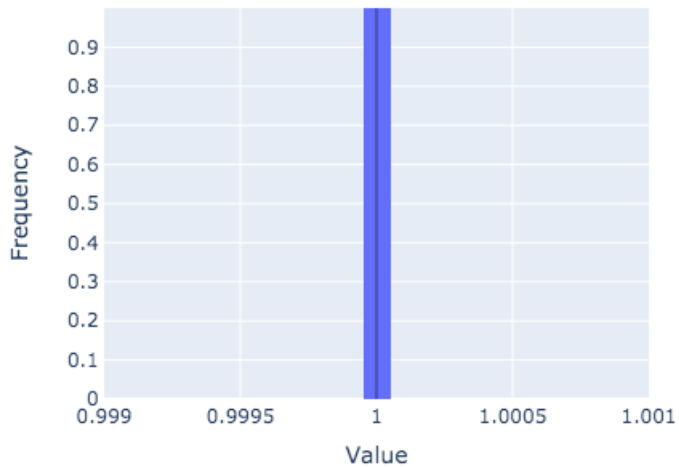
N=100, Nrep=10



Min: 0.9999999999999999
Max: 1.0000000000000002
|Max-Min|: 3.3306690738754696e-16

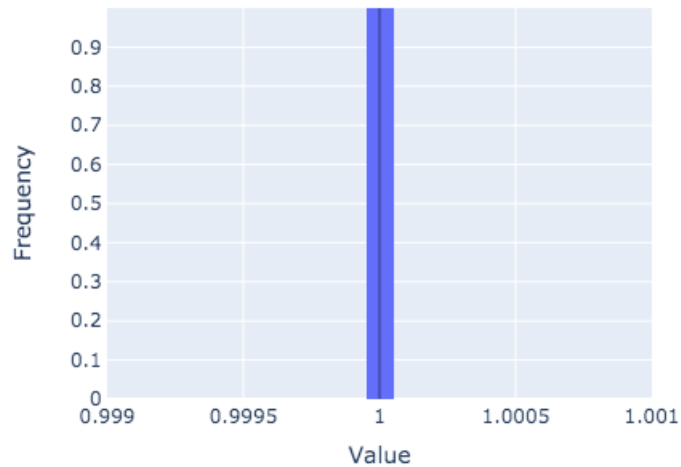
Case 2: ProjectedLinear (True)

N=10, Nrep=10



Min: 0.9999999999999998
Max: 0.9999999999999998
|Max-Min|: 0.0

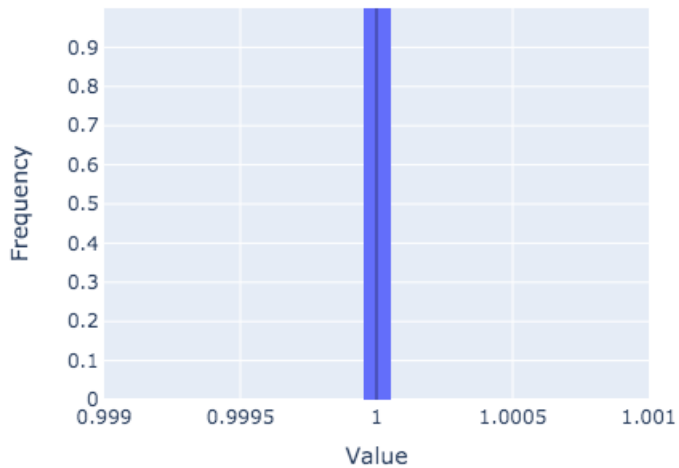
N=100, Nrep=10



Min: 0.9999999999999998
Max: 0.9999999999999998
|Max-Min|: 0.0

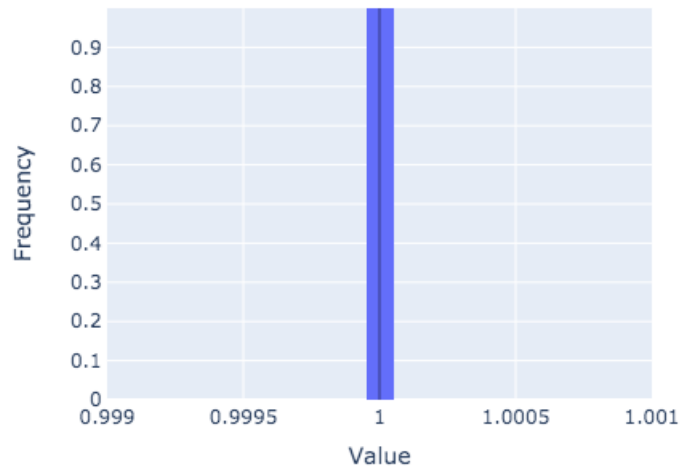
Case 3: ProjectedLinear (False)

N=10, Nrep=10



Min: 0.9999999999999996
Max: 1.00000014753393
|Max-Min|: 1.4753393040578544e-07

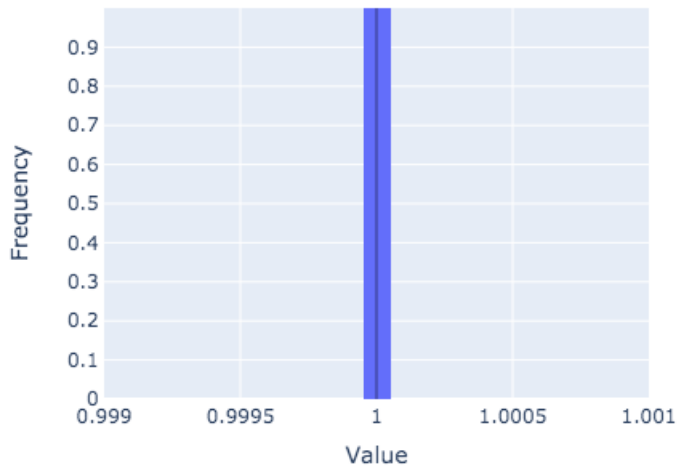
N=100, Nrep=10



Min: 0.9999999999999997
Max: 1.0000001280394155
|Max-Min|: 1.280394158476028e-07

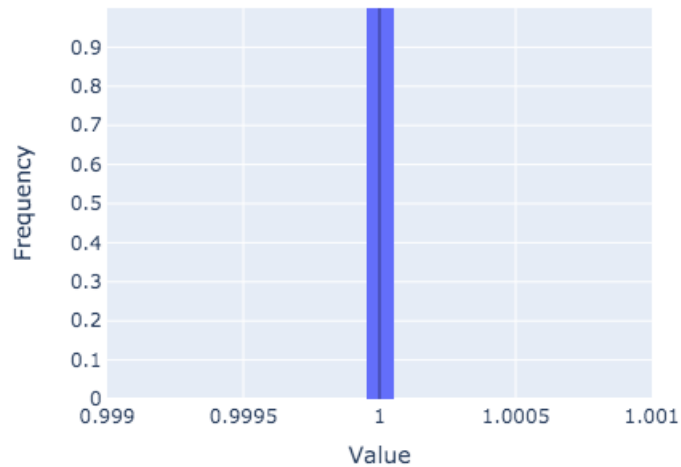
Case 4: Maximum-Likelihood (True)

N=10, Nrep=10



Min: 0.9999999999999998
Max: 0.9999999999999998
|Max-Min|: 0.0

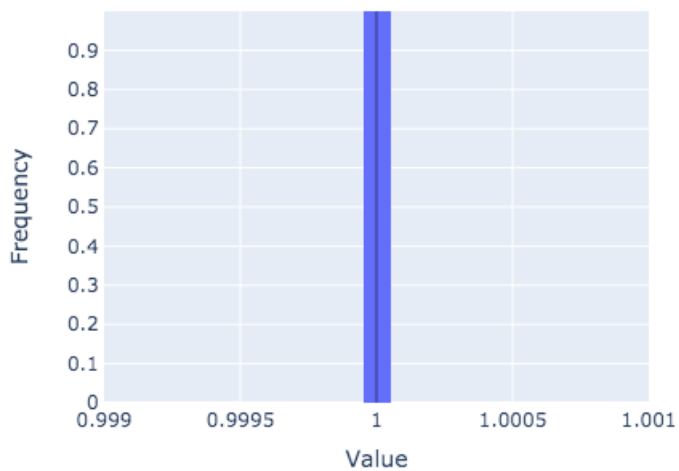
N=100, Nrep=10



Min: 0.9999999999999998
Max: 0.9999999999999998
|Max-Min|: 0.0

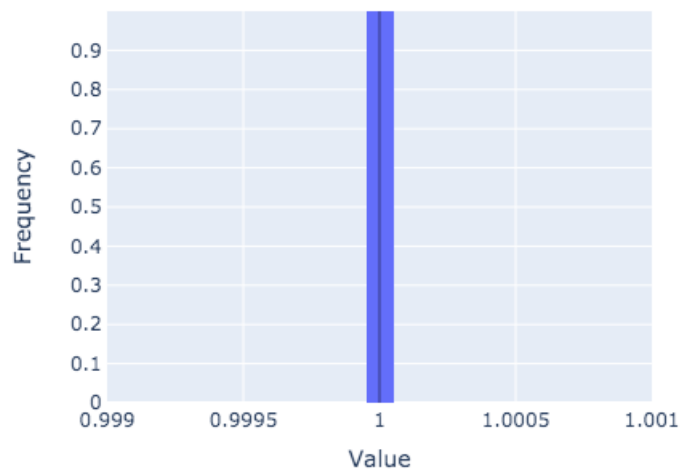
Case 5: Maximum-Likelihood (False)

N=10, Nrep=10



Min: 1.0000000006567707
Max: 1.0000001622723005
|Max-Min|: 1.5570459344083076e-07

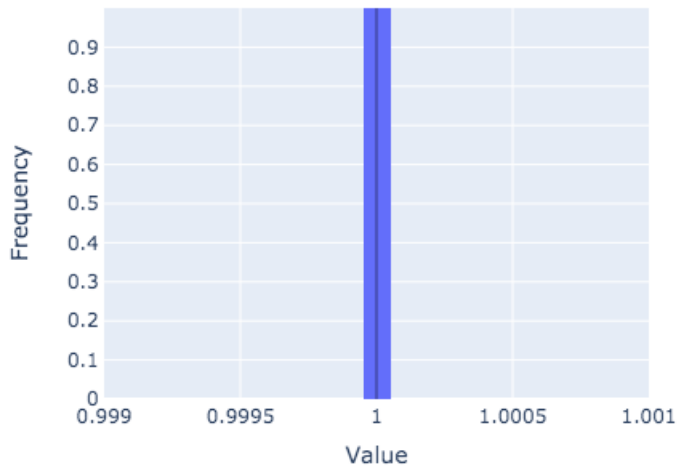
N=100, Nrep=10



Min: 1.0000000121352572
Max: 1.0000001810607821
|Max-Min|: 1.689255249015531e-07

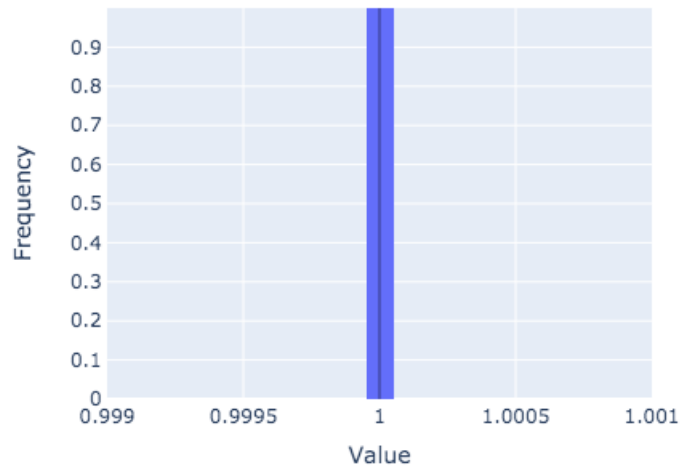
Case 6: Least Squares (True)

N=10, Nrep=10



Min: 0.9999999999999998
Max: 0.9999999999999998
|Max-Min|: 0.0

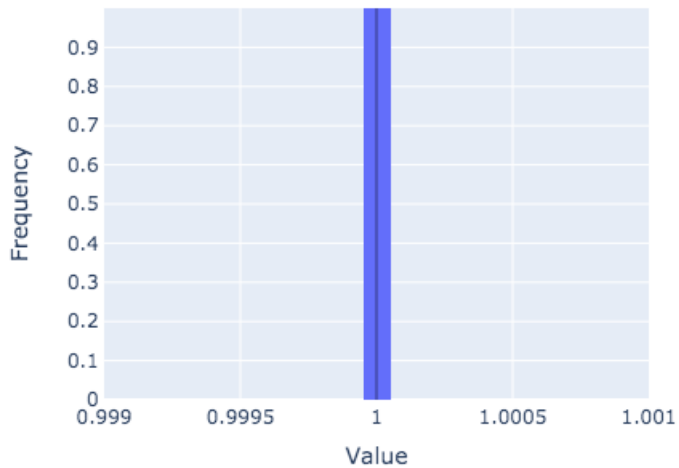
N=100, Nrep=10



Min: 0.9999999999999998
Max: 0.9999999999999998
|Max-Min|: 0.0

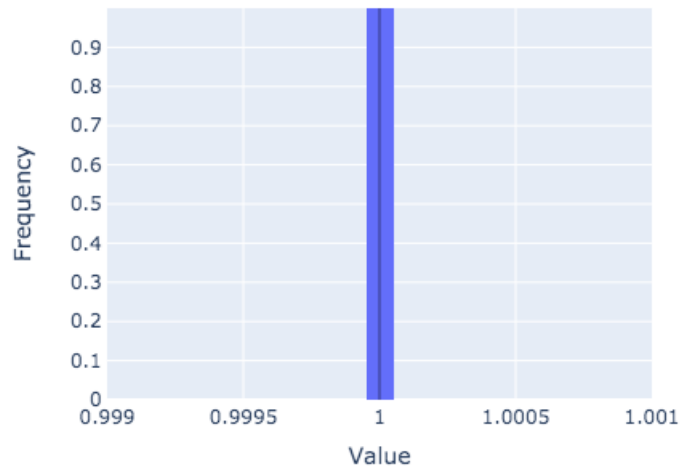
Case 7: Least Squares (False)

N=10, Nrep=10



Min: 0.9999999999999998
Max: 1.0000001781169368
|Max-Min|: 1.7811693697744602e-07

N=100, Nrep=10



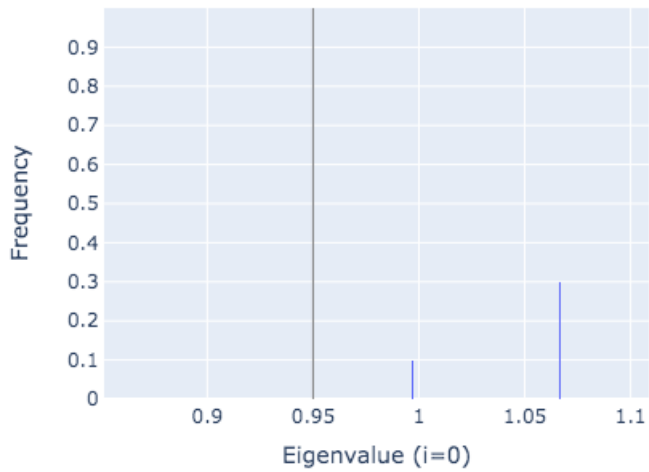
Min: 0.9999999999999998
Max: 1.0000001555680968
|Max-Min|: 1.5556809707106822e-07

Test of inequality constraint violation

Eigenvalue

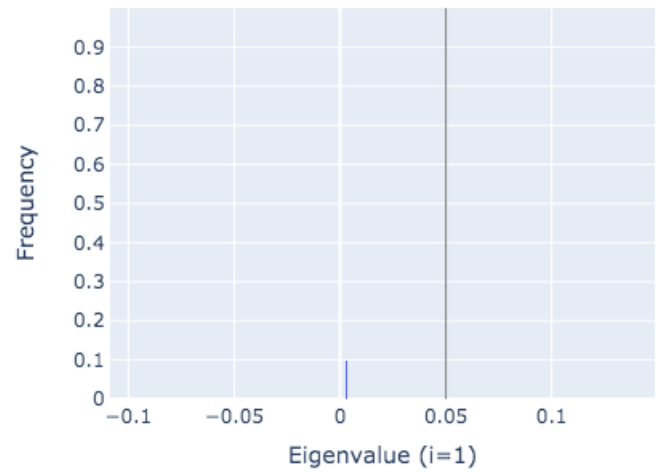
Case 0: Linear (True)

N=10, Nrep=10



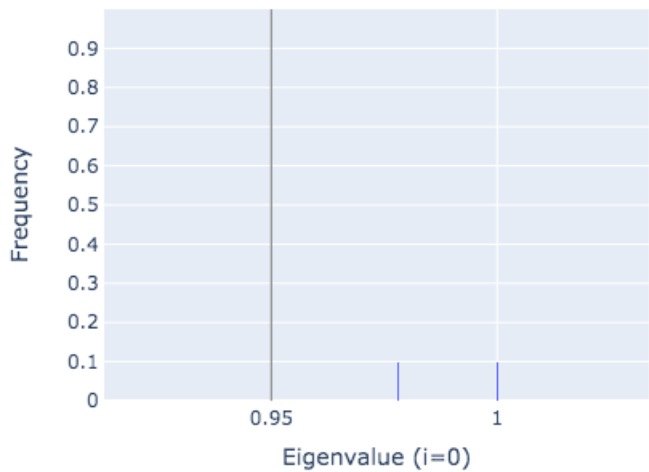
Min: 0.8513641844631532
 Max: 1.1085806194501846
 |Max-Min|: 0.2572164349870314

N=10, Nrep=10



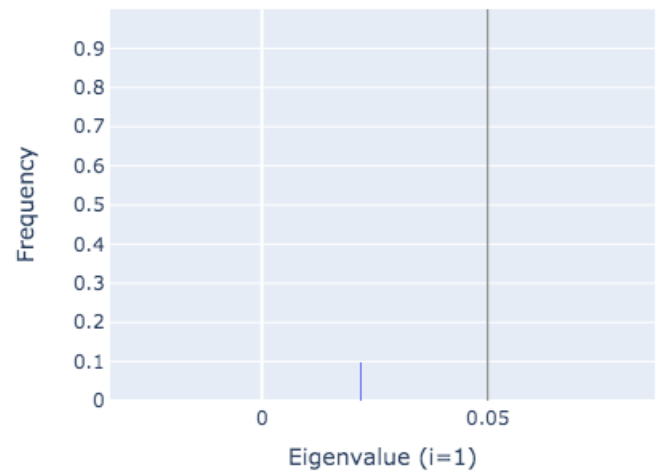
Min: -0.10858061945018471
 Max: 0.14863581553684663
 |Max-Min|: 0.2572164349870314

N=100, Nrep=10



Min: 0.9130584510098023
 Max: 1.0335647646019095
 |Max-Min|: 0.12050631359210717

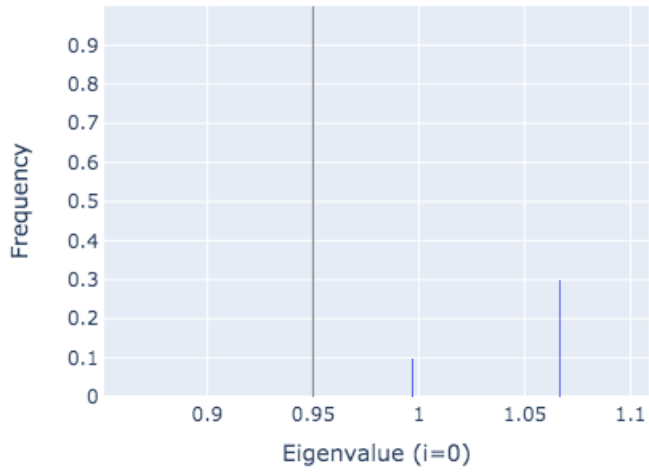
N=100, Nrep=10



Min: -0.03356476460190986
 Max: 0.0869415489901976
 |Max-Min|: 0.12050631359210745

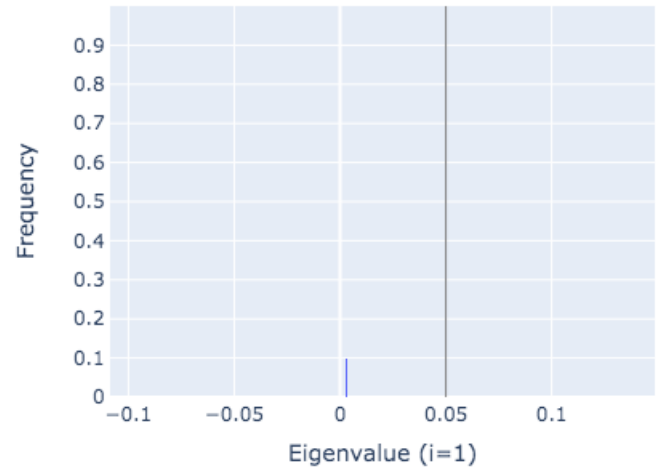
Case 1: Linear (False)

N=10, Nrep=10



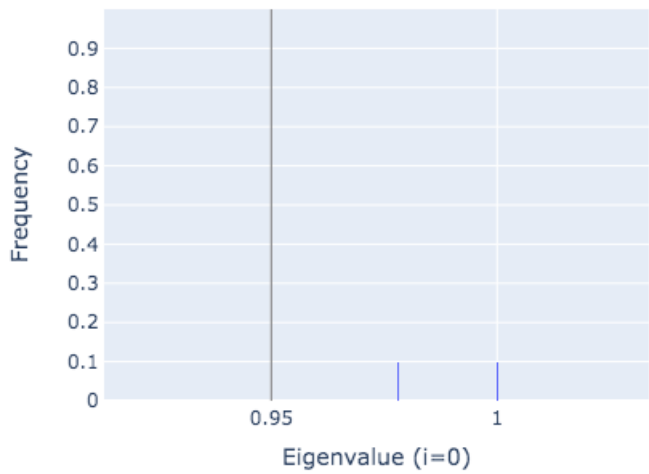
Min: 0.8513641844631532
Max: 1.1085806194501846
|Max-Min|: 0.2572164349870314

N=10, Nrep=10



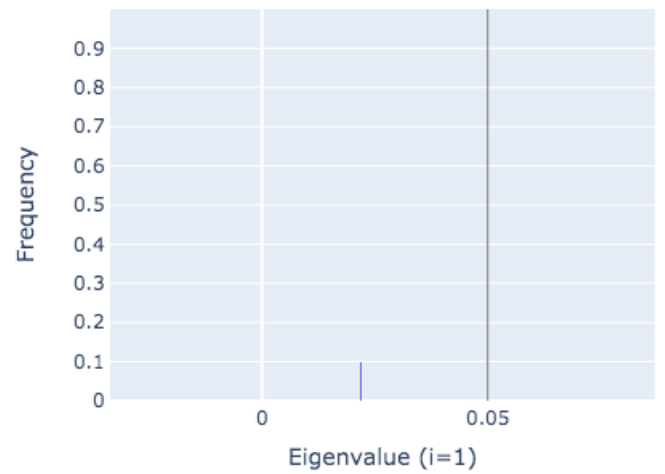
Min: -0.10858061945018459
Max: 0.14863581553684663
|Max-Min|: 0.25721643498703123

N=100, Nrep=10



Min: 0.9130584510098023
Max: 1.0335647646019095
|Max-Min|: 0.12050631359210717

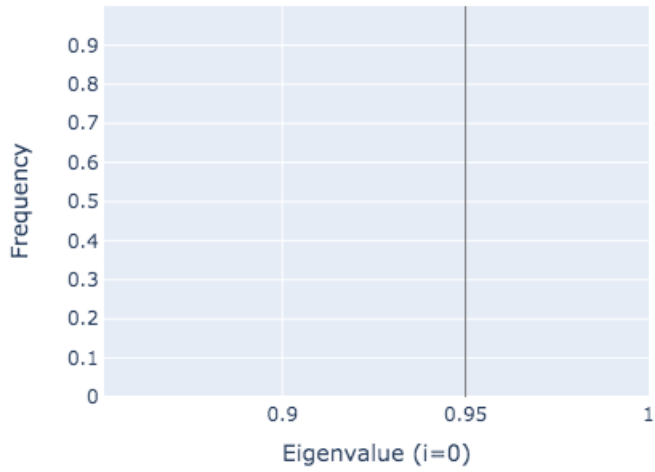
N=100, Nrep=10



Min: -0.03356476460190975
Max: 0.08694154899019772
|Max-Min|: 0.12050631359210748

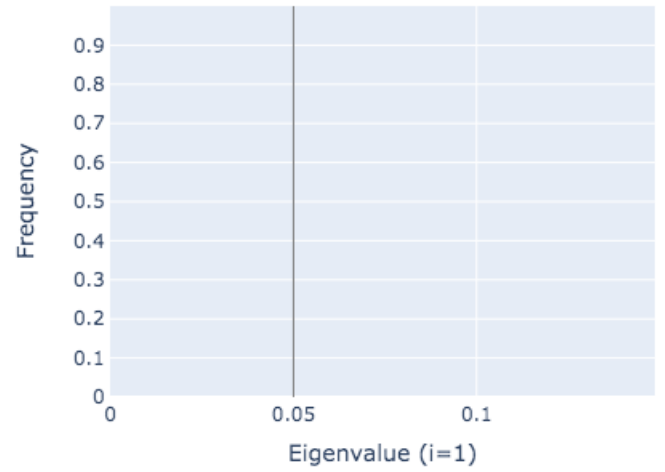
Case 2: ProjectedLinear (True)

N=10, Nrep=10



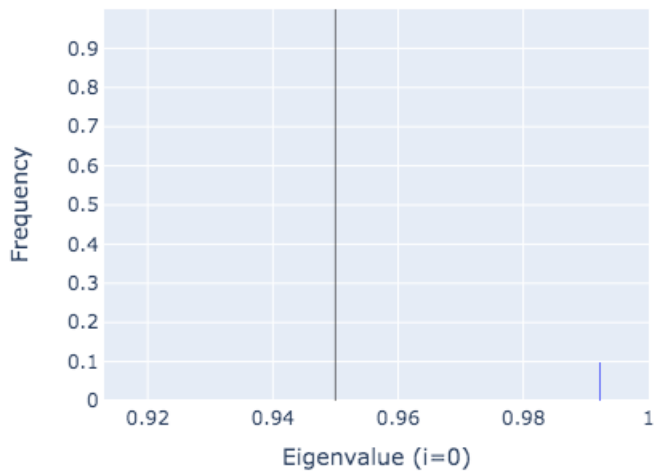
Min: 0.8513641844631531
Max: 1.0000000737669648
|Max-Min|: 0.14863588930381166

N=10, Nrep=10



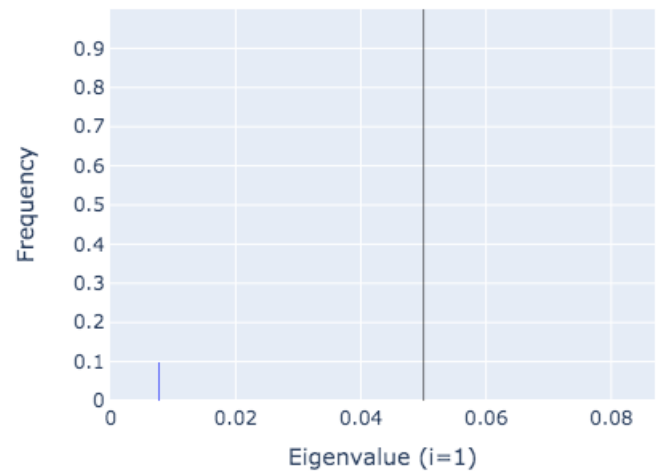
Min: -7.376696509533986e-08
Max: 0.14863581553684668
|Max-Min|: 0.14863588930381177

N=100, Nrep=10



Min: 0.9130584510098023
Max: 1.0000000640197078
|Max-Min|: 0.08694161300990544

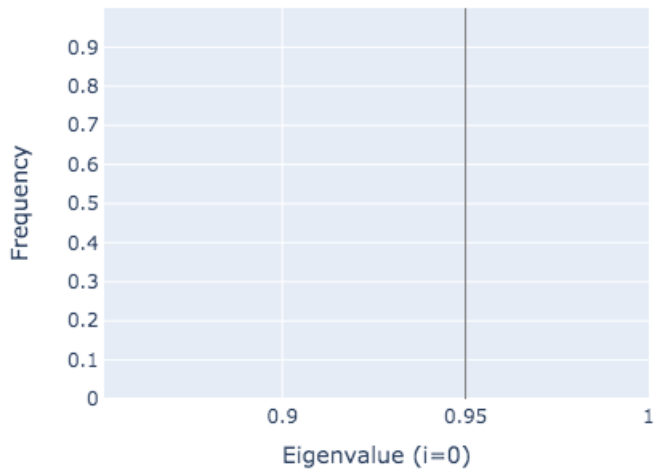
N=100, Nrep=10



Min: -6.401970792556323e-08
Max: 0.0869415489901976
|Max-Min|: 0.08694161300990552

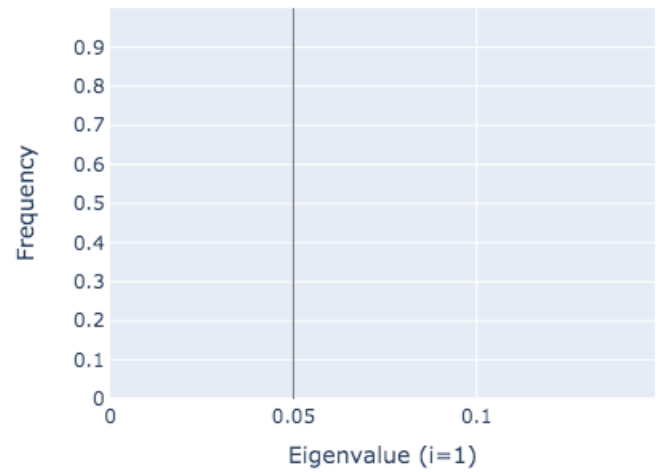
Case 3: ProjectedLinear (False)

N=10, Nrep=10



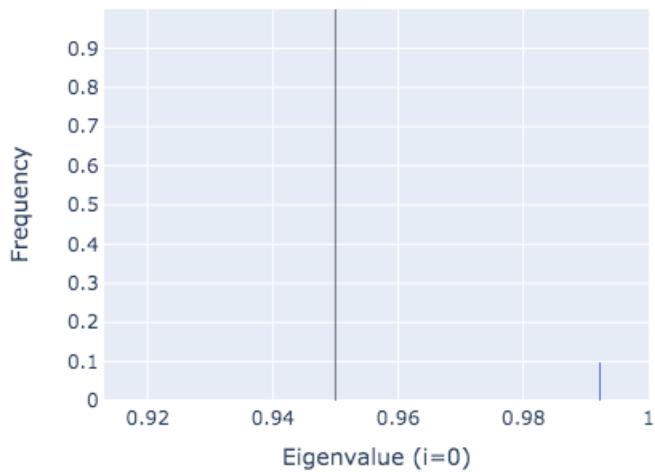
Min: 0.8513641844631532
Max: 1.00000014753393
|Max-Min|: 0.14863596307077676

N=10, Nrep=10



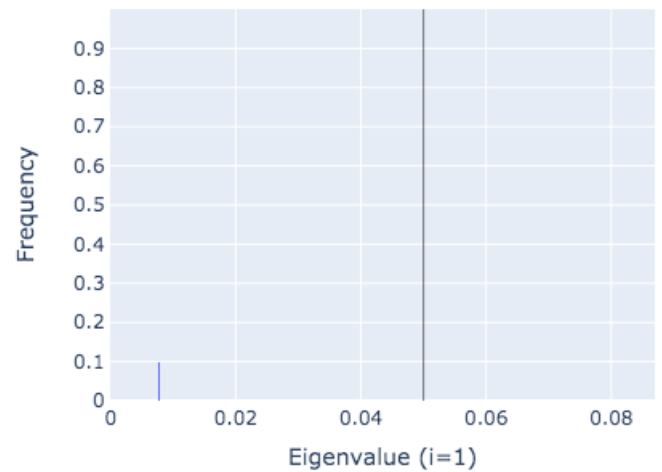
Min: -2.7755575615628914e-17
Max: 0.14863581553684696
|Max-Min|: 0.148635815536847

N=100, Nrep=10



Min: 0.9130584510098023
Max: 1.0000001280394155
|Max-Min|: 0.0869416770296132

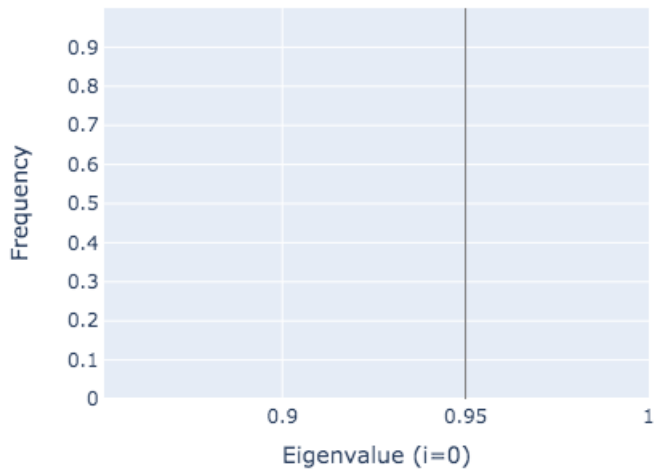
N=100, Nrep=10



Min: -5.730008481585891e-17
Max: 0.0869415489901976
|Max-Min|: 0.08694154899019765

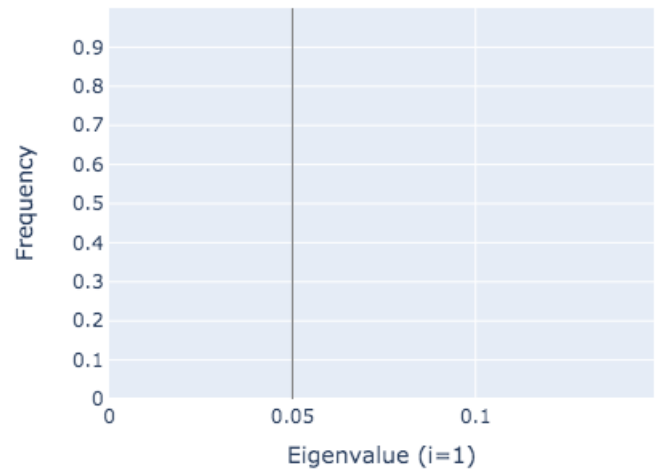
Case 4: Maximum-Likelihood (True)

N=10, Nrep=10



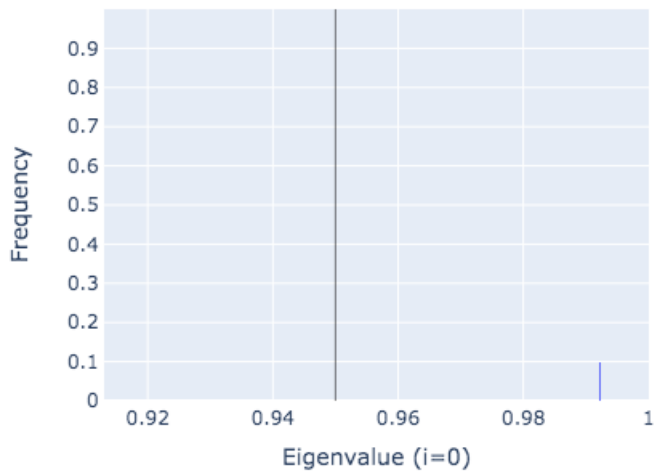
Min: 0.8513641812250503
Max: 1.0000000702659644
|Max-Min|: 0.14863588904091407

N=10, Nrep=10



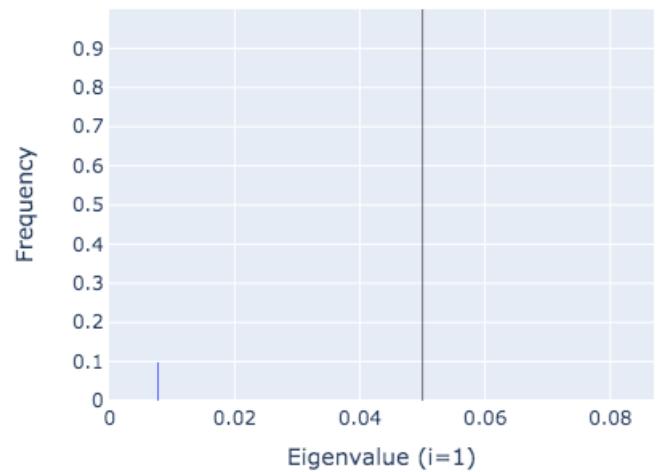
Min: -7.026596454684508e-08
Max: 0.14863581877494952
|Max-Min|: 0.14863588904091407

N=100, Nrep=10



Min: 0.9130584509383943
Max: 1.000000078401553
|Max-Min|: 0.0869416274631587

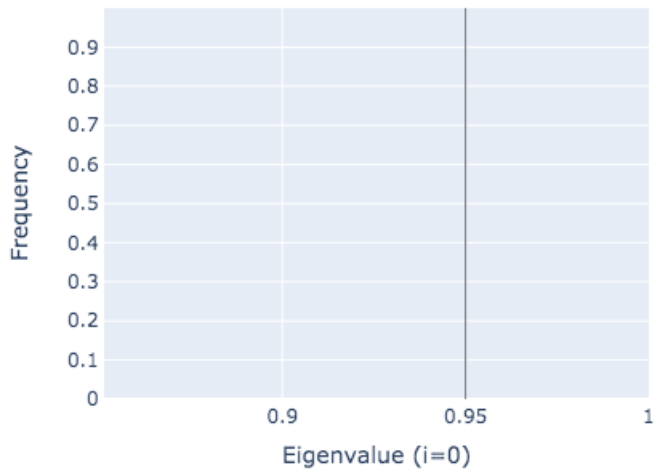
N=100, Nrep=10



Min: -7.840155328241432e-08
Max: 0.08694154906160545
|Max-Min|: 0.08694162746315873

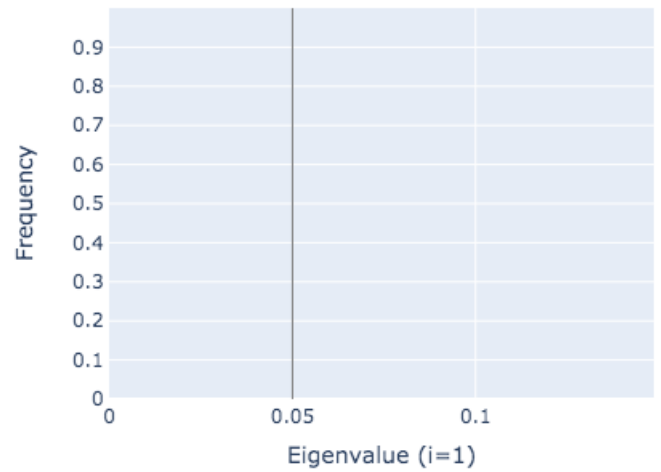
Case 5: Maximum-Likelihood (False)

N=10, Nrep=10



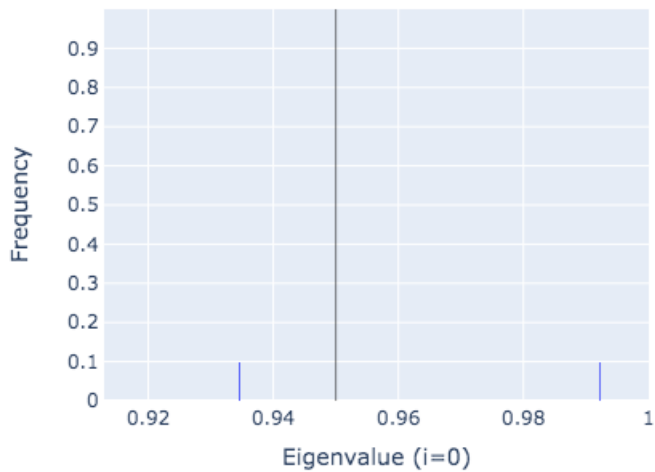
Min: 0.851427240055816
 Max: 1.000000162272261
 |Max-Min|: 0.1485729222164449

N=10, Nrep=10



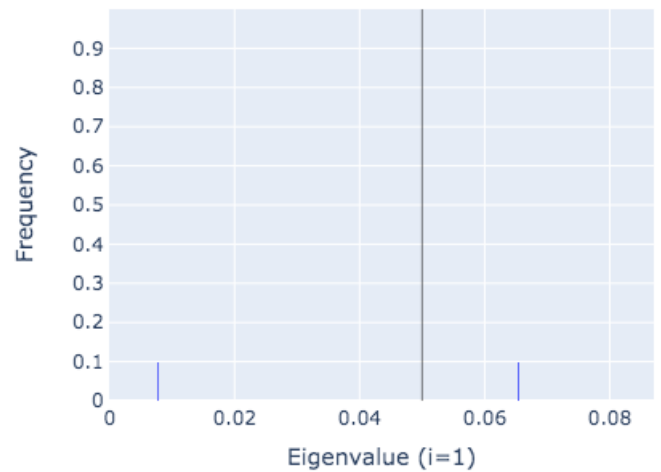
Min: -1.3877787807814457e-17
 Max: 0.14857279250213073
 |Max-Min|: 0.14857279250213073

N=100, Nrep=10



Min: 0.9130380513737355
 Max: 1.0000001810607806
 |Max-Min|: 0.08696212968704509

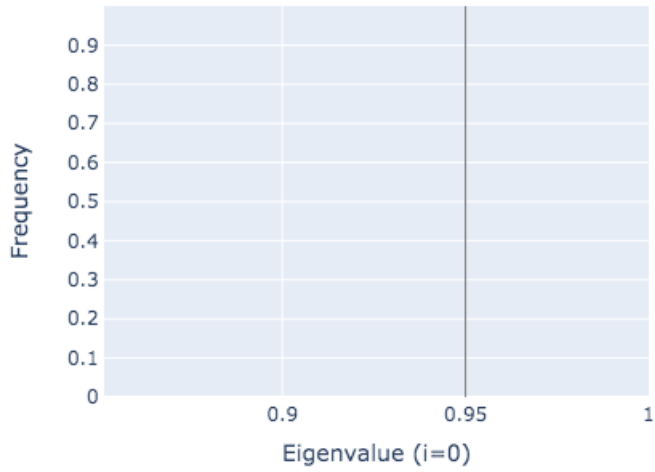
N=100, Nrep=10



Min: -1.0061396160665481e-16
 Max: 0.08696196076152173
 |Max-Min|: 0.08696196076152182

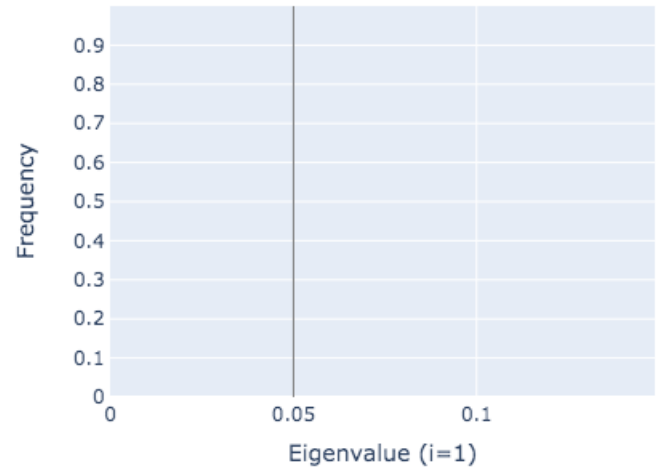
Case 6: Least Squares (True)

N=10, Nrep=10



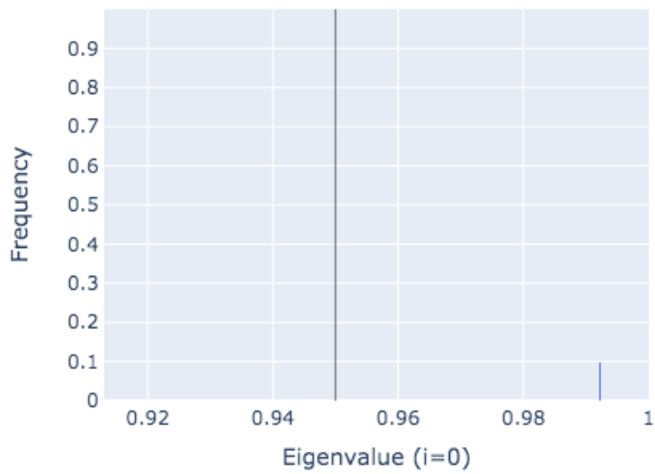
Min: 0.851364184463153
 Max: 1.0000000761055894
 |Max-Min|: 0.1486358916424364

N=10, Nrep=10



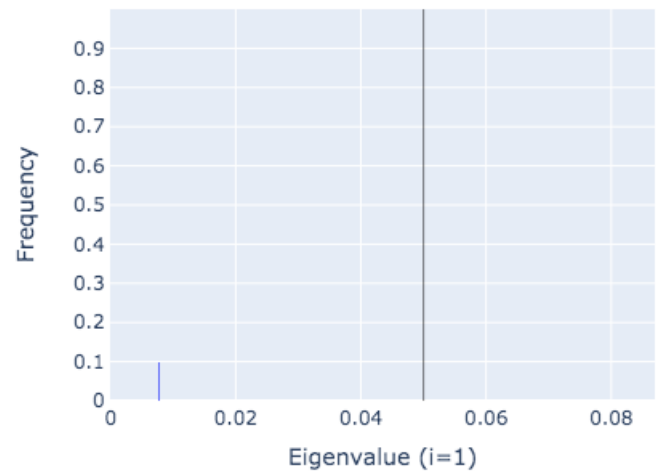
Min: -7.610558962201086e-08
 Max: 0.14863581553684674
 |Max-Min|: 0.14863589164243635

N=100, Nrep=10



Min: 0.9130584510098028
 Max: 1.0000000598780594
 |Max-Min|: 0.08694160886825664

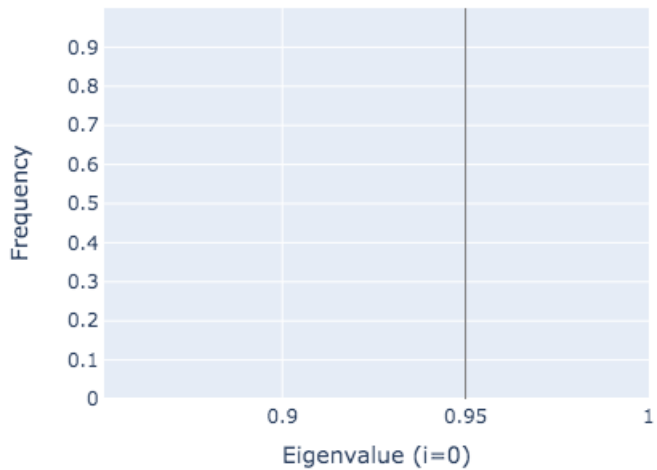
N=100, Nrep=10



Min: -5.987805948691623e-08
 Max: 0.0869415489901971
 |Max-Min|: 0.08694160886825658

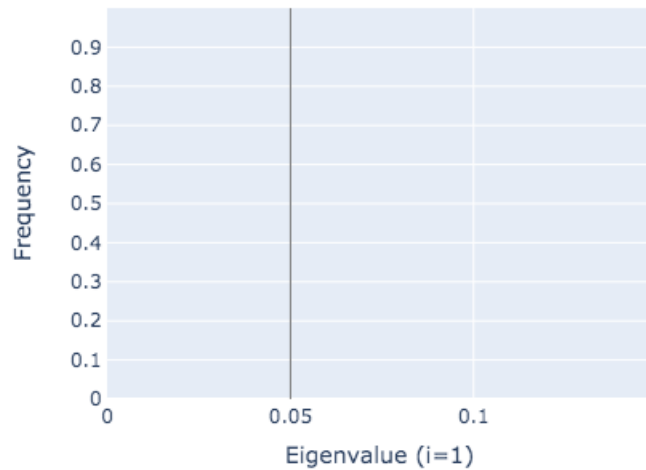
Case 7: Least Squares (False)

N=10, Nrep=10



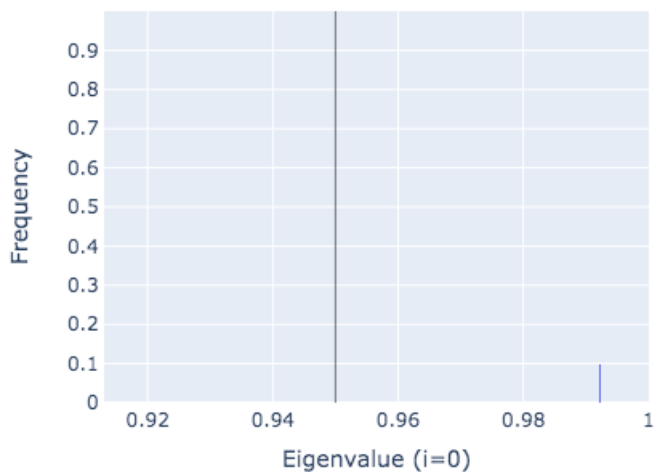
Min: 0.8513641844631532
Max: 1.0000001781169368
|Max-Min|: 0.14863599365378355

N=10, Nrep=10



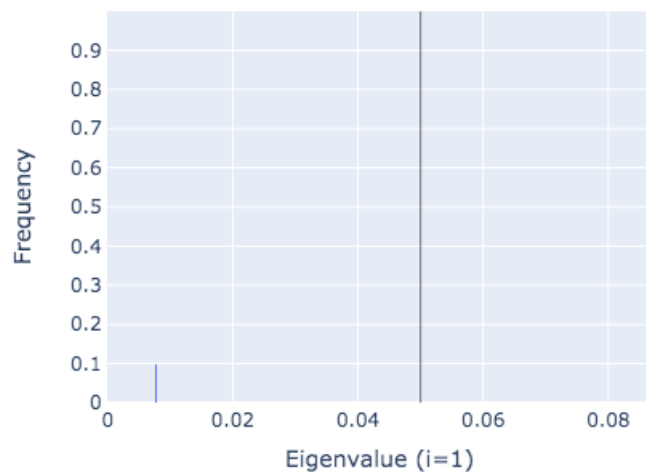
Min: -7.632783294297951e-17
Max: 0.14863581553684663
|Max-Min|: 0.1486358155368467

N=100, Nrep=10



Min: 0.9130584510098023
Max: 1.0000001555680968
|Max-Min|: 0.08694170455829453

N=100, Nrep=10



Min: 3.06287113727155e-18
Max: 0.08694154899019754
|Max-Min|: 0.08694154899019754

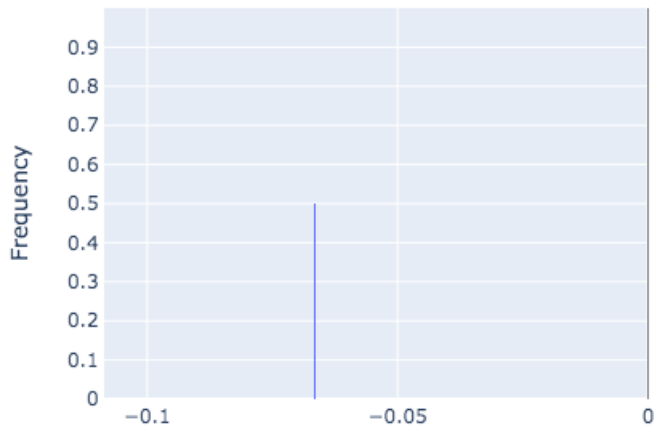
Sum of unphysical eigenvalues

Case 0: Linear (True)

N=10

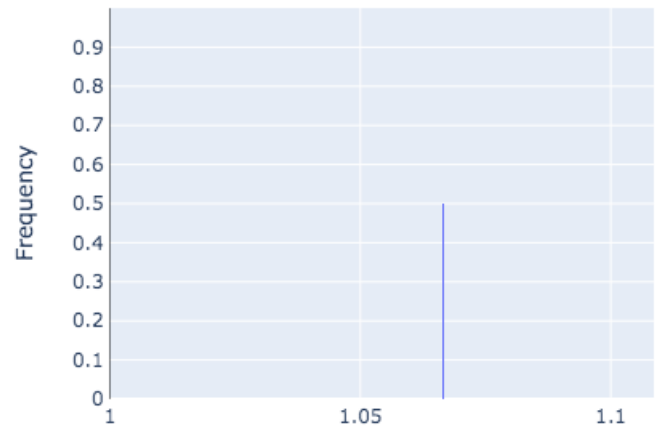
Number of unphysical estimates=6

N=10, Nrep=10



Min: -0.10858061945018471
 Max: -0.009175077217315732
 |Max-Min|: 0.09940554223286899

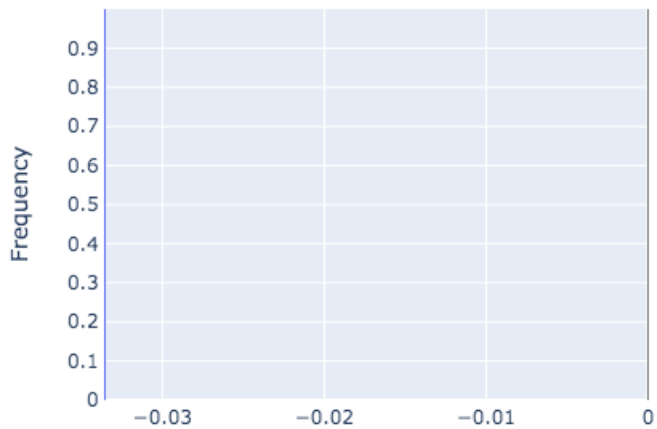
N=10, Nrep=10



Min: 1.0091750772173156
 Max: 1.1085806194501846
 |Max-Min|: 0.09940554223286902

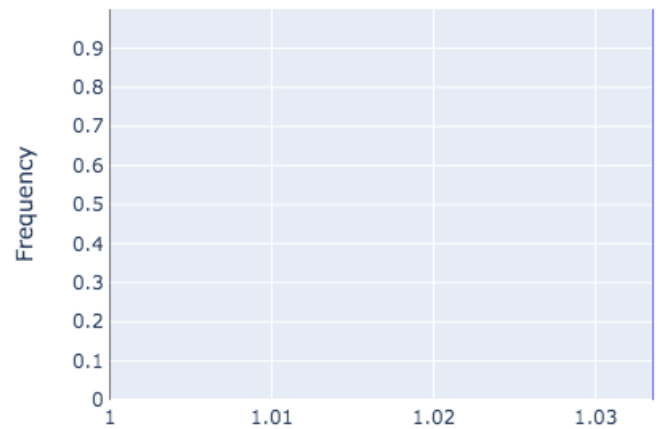
N=100
 Number of unphysical estimates=1

N=100, Nrep=10



Min: -0.03356476460190986
 Max: -0.03356476460190986
 |Max-Min|: 0.0

N=100, Nrep=10

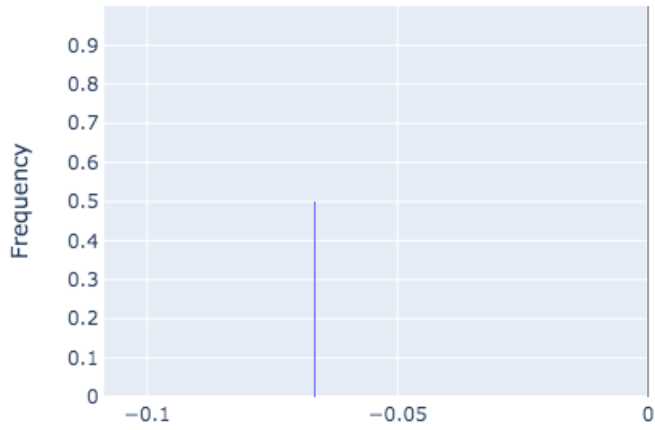


Min: 1.0335647646019095
 Max: 1.0335647646019095
 |Max-Min|: 0.0

Case 1: Linear (False)

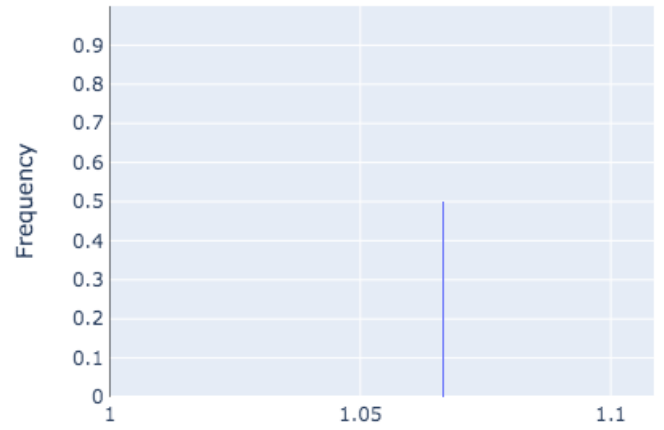
N=10
 Number of unphysical estimates=6

N=10, Nrep=10



Min: -0.10858061945018459
Max: -0.009175077217315586
|Max-Min|: 0.099405542232869

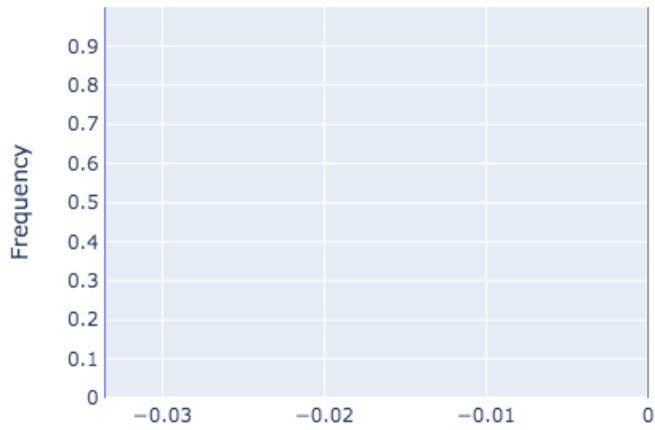
N=10, Nrep=10



Min: 1.0091750772173156
Max: 1.1085806194501846
|Max-Min|: 0.09940554223286902

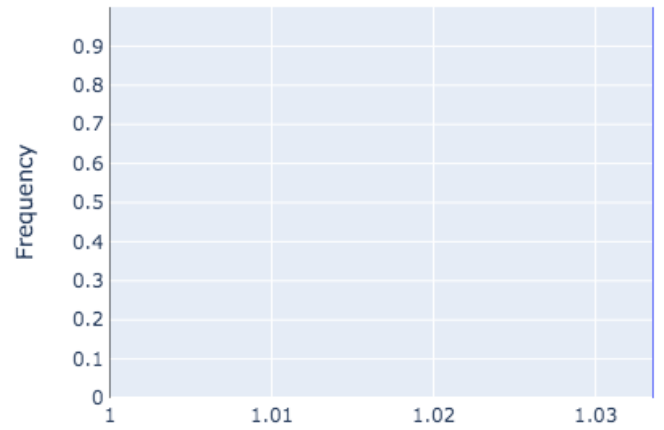
N=100
Number of unphysical estimates=1

N=100, Nrep=10



Min: -0.03356476460190975
Max: -0.03356476460190975
|Max-Min|: 0.0

N=100, Nrep=10

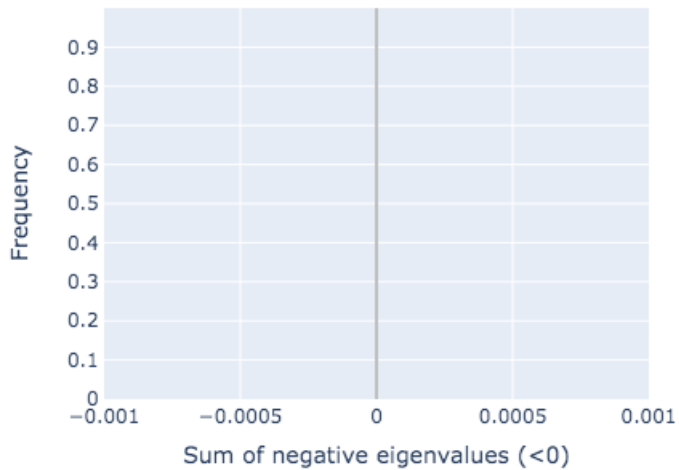


Min: 1.0335647646019095
Max: 1.0335647646019095
|Max-Min|: 0.0

Case 2: ProjectedLinear (True)

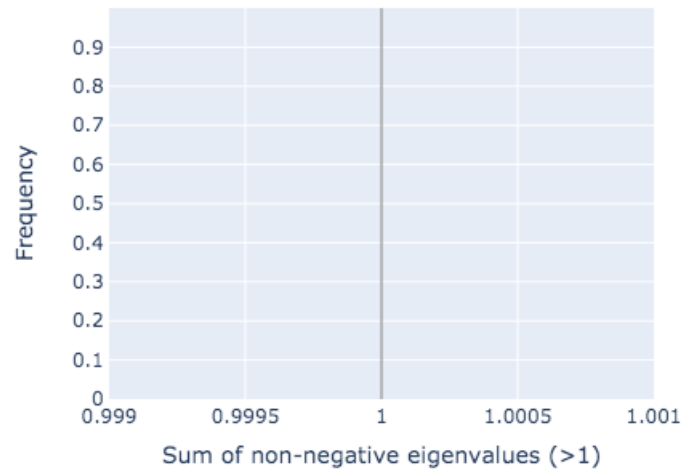
N=10
Number of unphysical estimates=0

N=10, Nrep=10



Min: -
Max: -
|Max-Min|: -

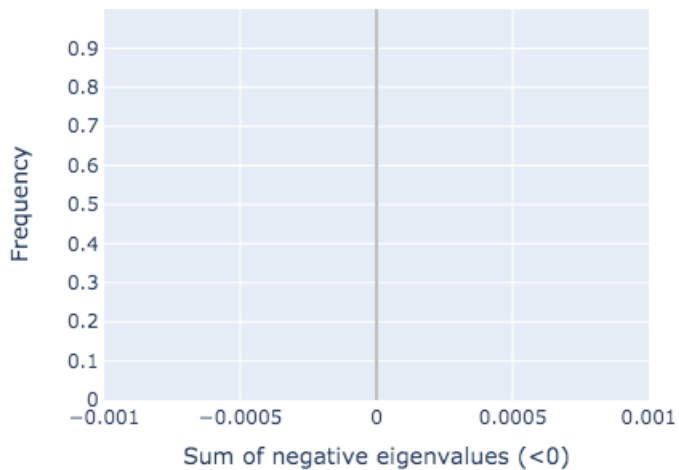
N=10, Nrep=10



Min: -
Max: -
|Max-Min|: -

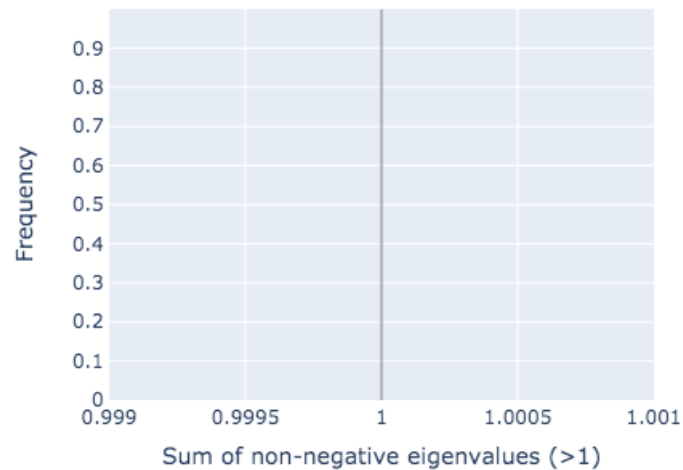
N=100
Number of unphysical estimates=0

N=100, Nrep=10



Min: -
Max: -
|Max-Min|: -

N=100, Nrep=10

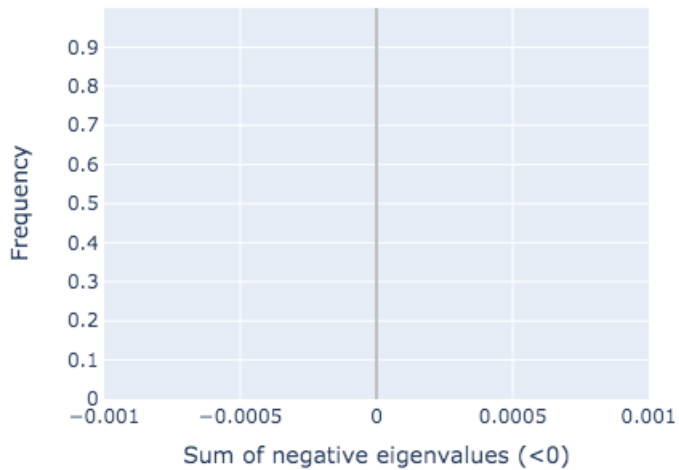


Min: -
Max: -
|Max-Min|: -

Case 3: ProjectedLinear (False)

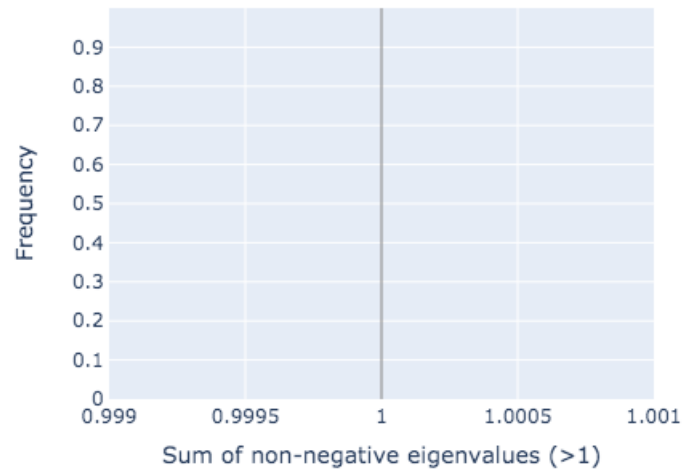
N=10
Number of unphysical estimates=0

N=10, Nrep=10



Min: -
Max: -
|Max-Min|: -

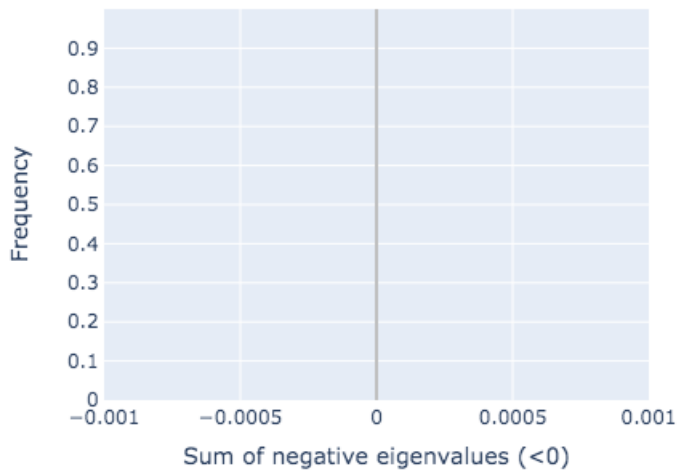
N=10, Nrep=10



Min: -
Max: -
|Max-Min|: -

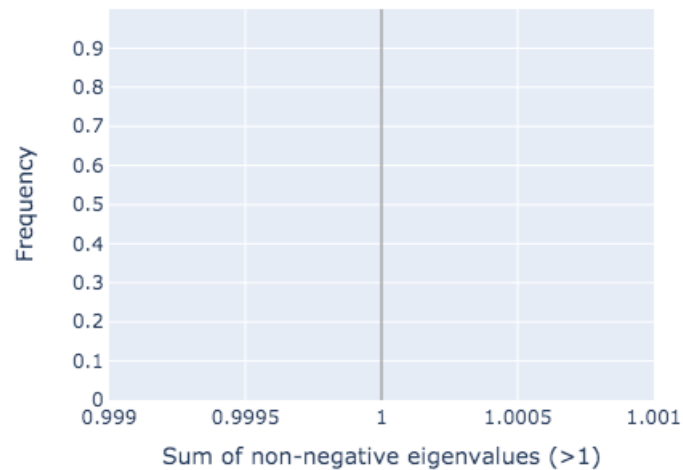
N=100
Number of unphysical estimates=0

N=100, Nrep=10



Min: -
Max: -
|Max-Min|: -

N=100, Nrep=10

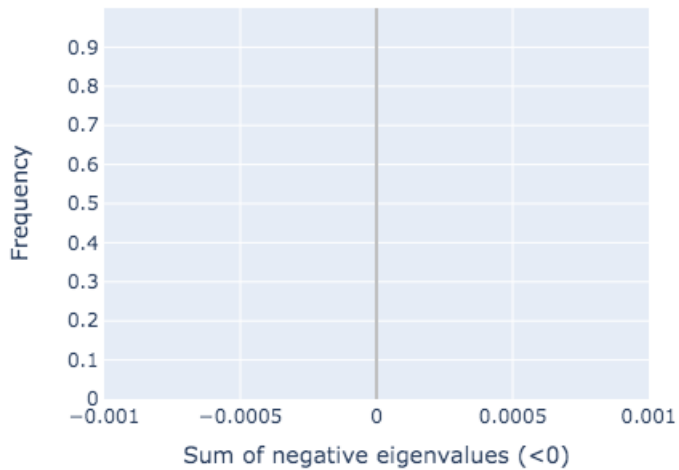


Min: -
Max: -
|Max-Min|: -

Case 4: Maximum-Likelihood (True)

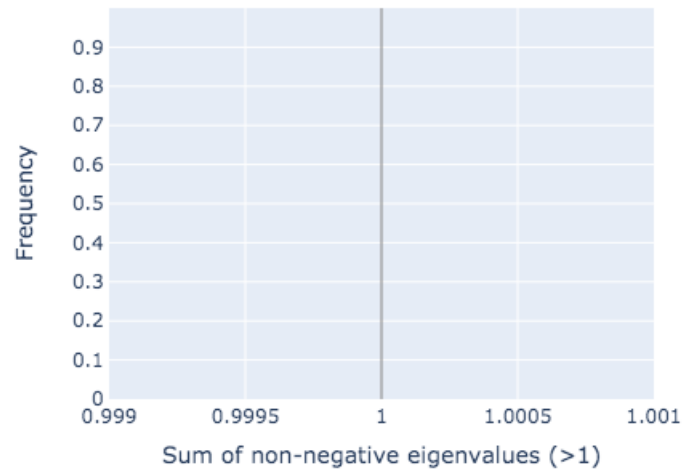
N=10
Number of unphysical estimates=0

N=10, Nrep=10



Min: -
Max: -
|Max-Min|: -

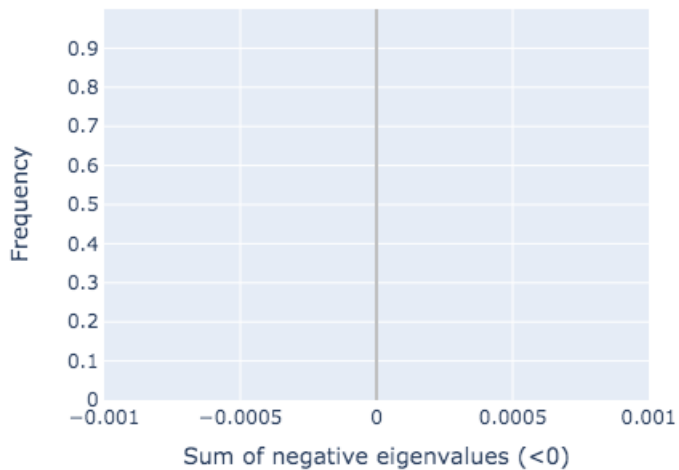
N=10, Nrep=10



Min: -
Max: -
|Max-Min|: -

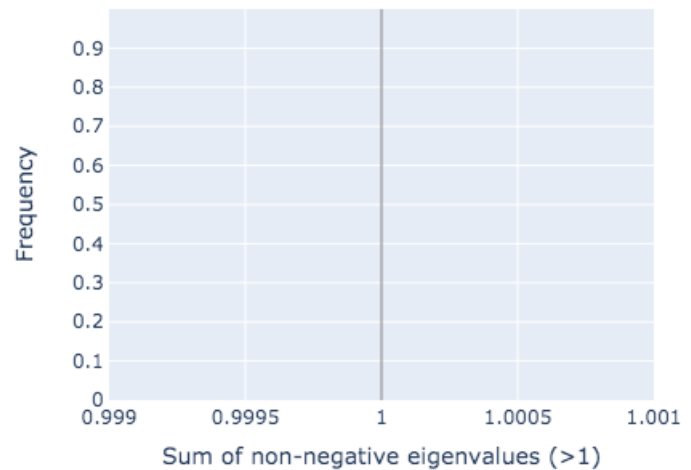
N=100
Number of unphysical estimates=0

N=100, Nrep=10



Min: -
Max: -
|Max-Min|: -

N=100, Nrep=10

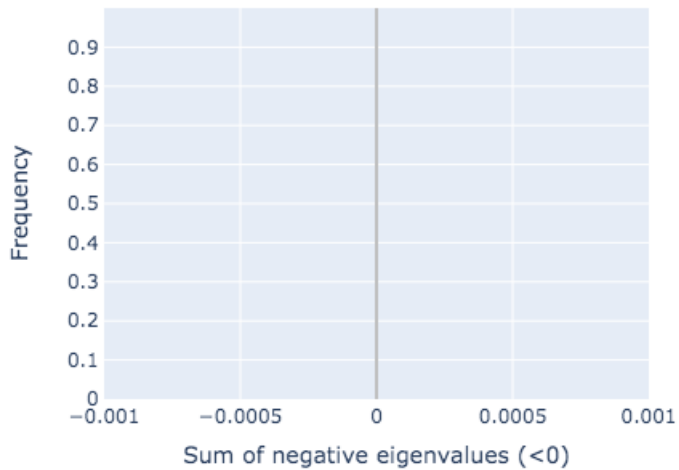


Min: -
Max: -
|Max-Min|: -

Case 5: Maximum-Likelihood (False)

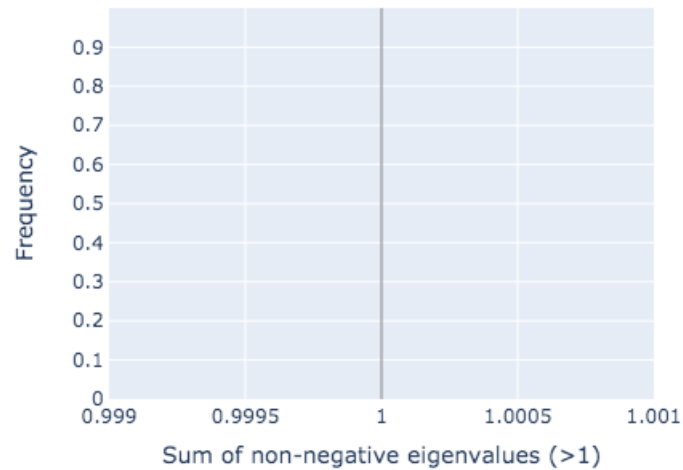
N=10
Number of unphysical estimates=0

N=10, Nrep=10



Min: -
Max: -
|Max-Min|: -

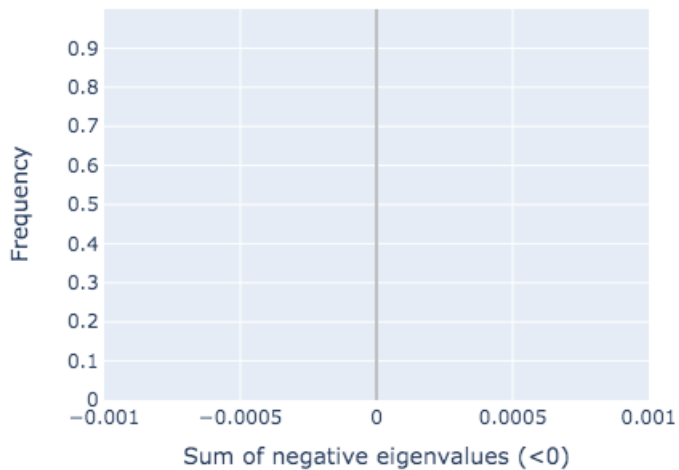
N=10, Nrep=10



Min: -
Max: -
|Max-Min|: -

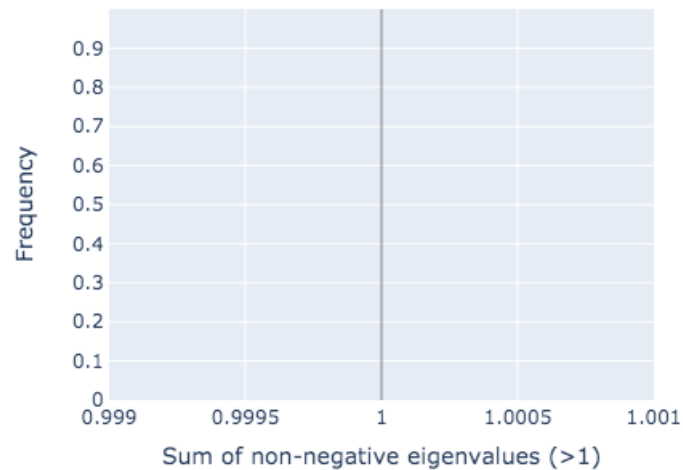
N=100
Number of unphysical estimates=0

N=100, Nrep=10



Min: -
Max: -
|Max-Min|: -

N=100, Nrep=10

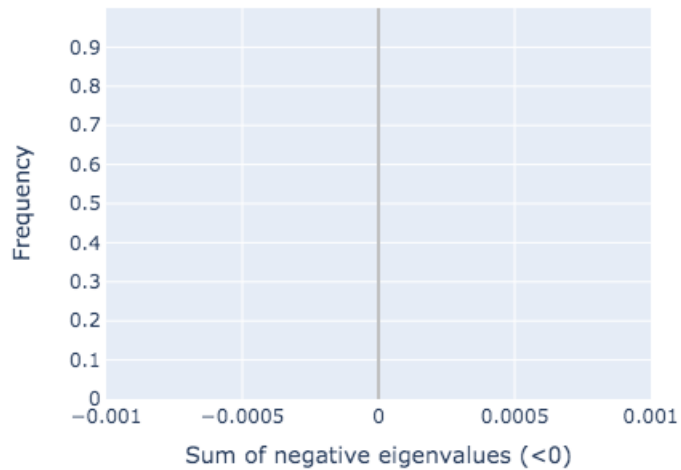


Min: -
Max: -
|Max-Min|: -

Case 6: Least Squares (True)

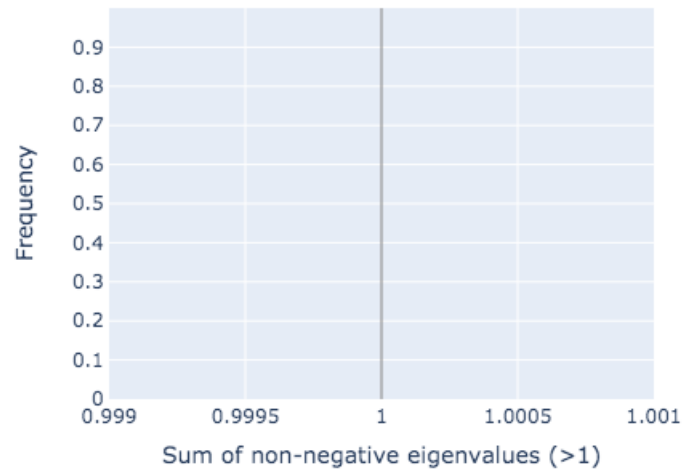
N=10
Number of unphysical estimates=0

N=10, Nrep=10



Min: -
Max: -
|Max-Min|: -

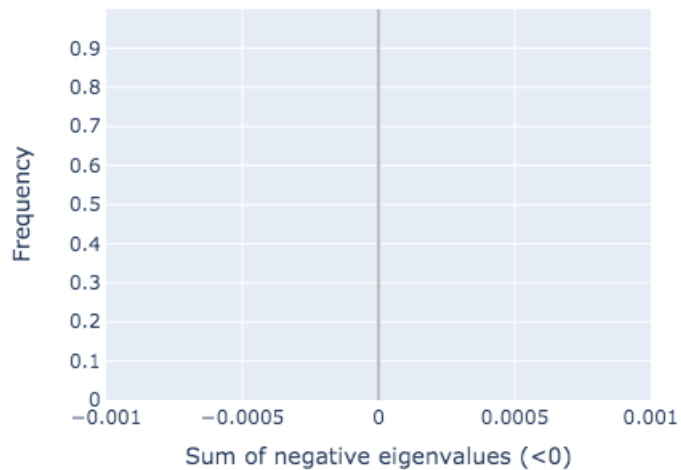
N=10, Nrep=10



Min: -
Max: -
|Max-Min|: -

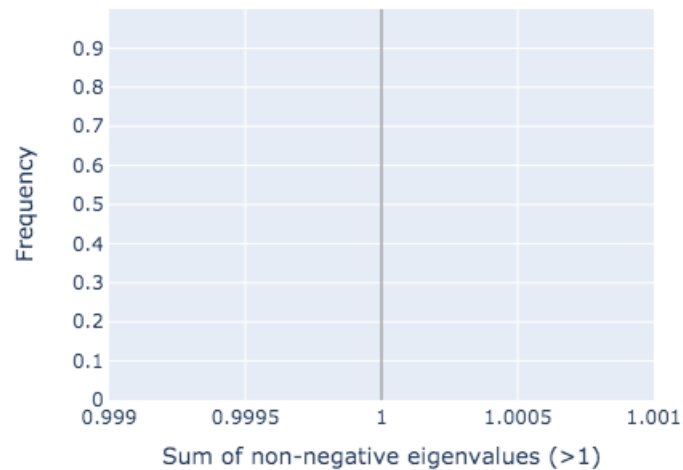
N=100
Number of unphysical estimates=0

N=100, Nrep=10



Min: -
Max: -
|Max-Min|: -

N=100, Nrep=10

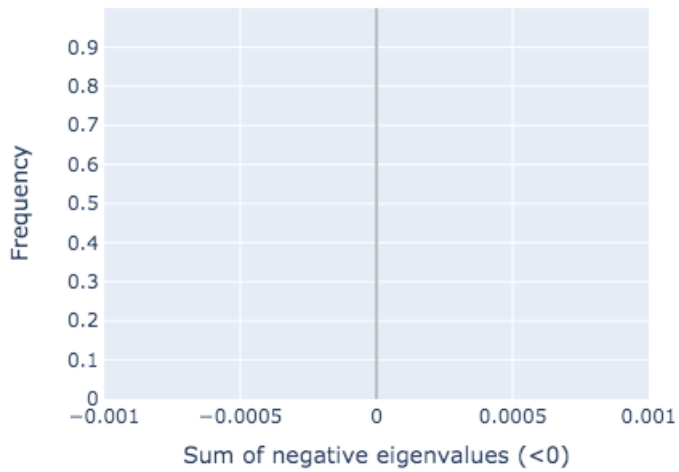


Min: -
Max: -
|Max-Min|: -

Case 7: Least Squares (False)

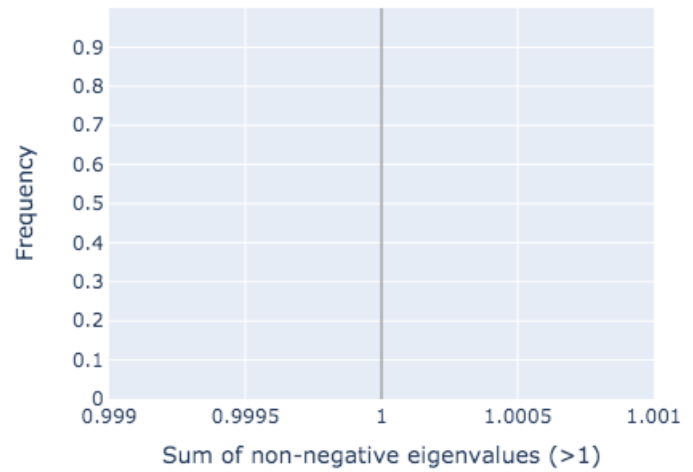
N=10
Number of unphysical estimates=0

N=10, Nrep=10



Min: -
Max: -
|Max-Min|: -

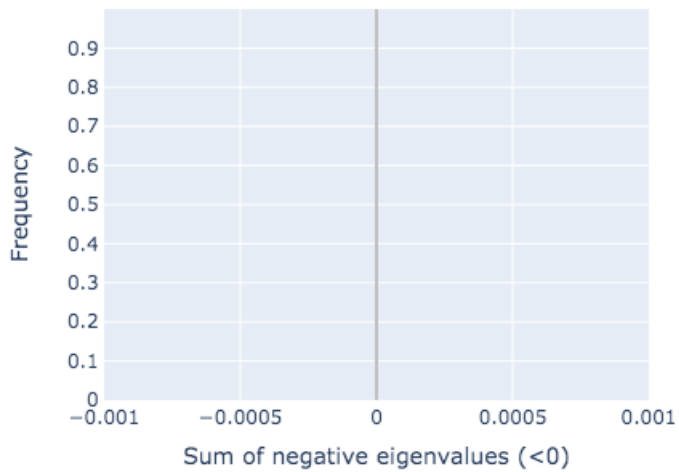
N=10, Nrep=10



Min: -
Max: -
|Max-Min|: -

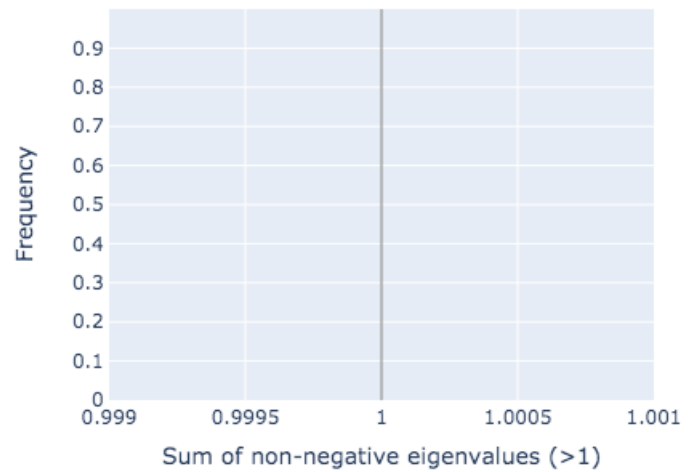
N=100
Number of unphysical estimates=0

N=100, Nrep=10



Min: -
Max: -
|Max-Min|: -

N=100, Nrep=10



Min: -
Max: -
|Max-Min|: -