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## **MSE**

### Mean Square Value



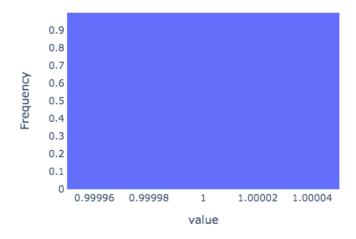
TODO:

# **Physicality Violation Test**

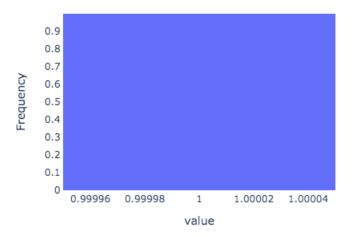
### on\_para\_eq\_constraint=True

### case 0: LinearEstimator(True)

N=100, Nrep=100



N=1000, Nrep=100

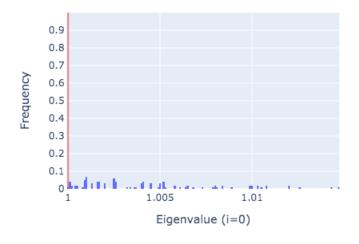


### on\_para\_eq\_constraint=False

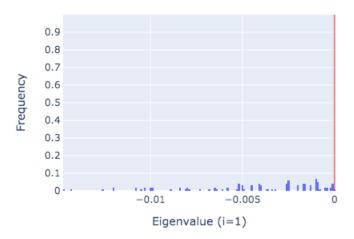
### case 1: LinearEstimator(False)

#### **Eigenvalue**

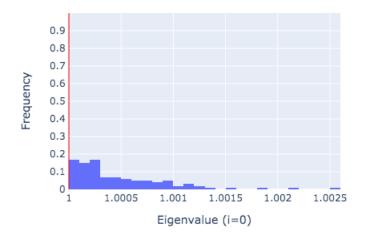
N=100, Nrep=100



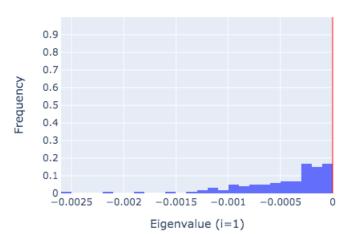
N=100, Nrep=100



#### N=1000, Nrep=100

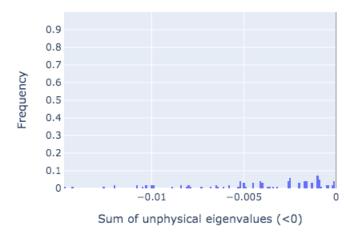


N=1000, Nrep=100

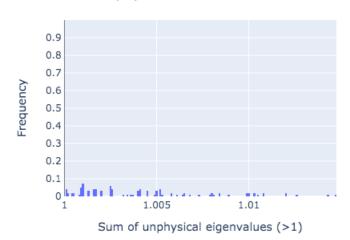


#### Sum of unphysical eigenvalues

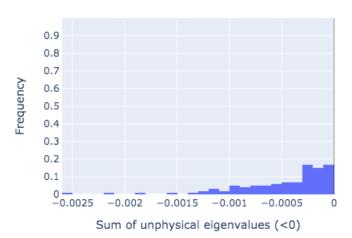
N=100, Nrep=100 Number of Unphysical estimates=99



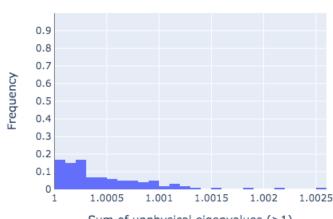
N=100, Nrep=100 Number of Unphysical estimates=99



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



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



Sum of unphysical eigenvalues (>1)