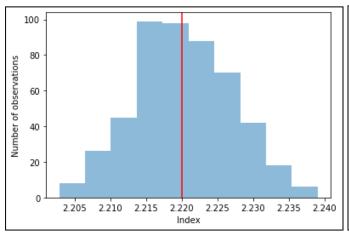
Spectral Analysis of M82 by comparing two models PowerLaw and Exponentialcut-PowerLaw

M82 provided info:

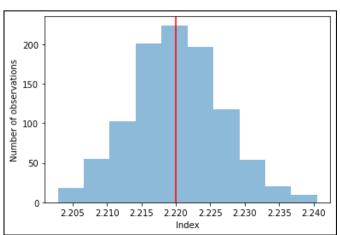
Index = 2.22 Amplitude = 1.289e-12

PowerLaw analysis for the different number of observations run:

Index Values:



N = 500

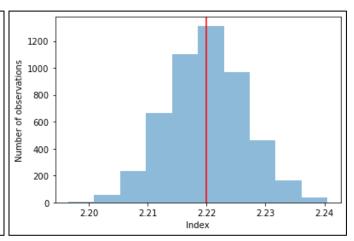


N = 1000

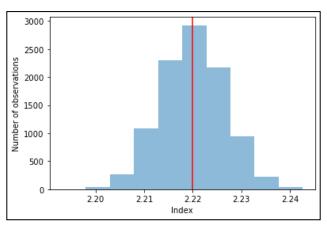
Number of observations - 200 -

2.205 2.210 2.215 2.220 2.225 2.230 2.235 2.240

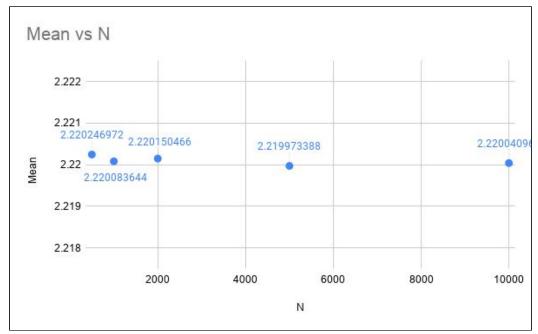
Index

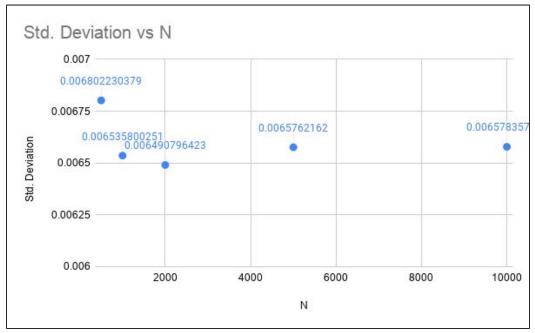


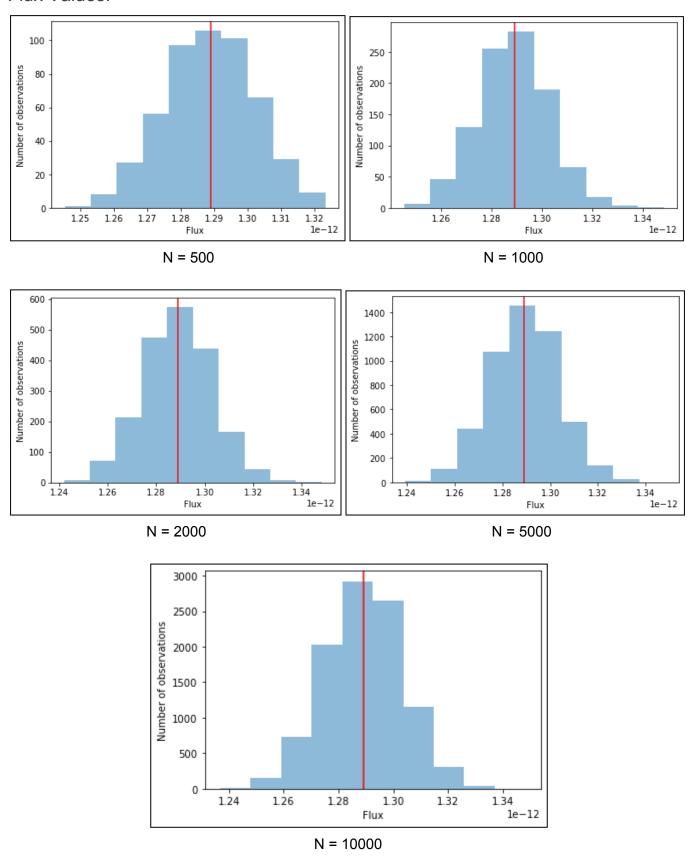
N = 2000 N = 5000

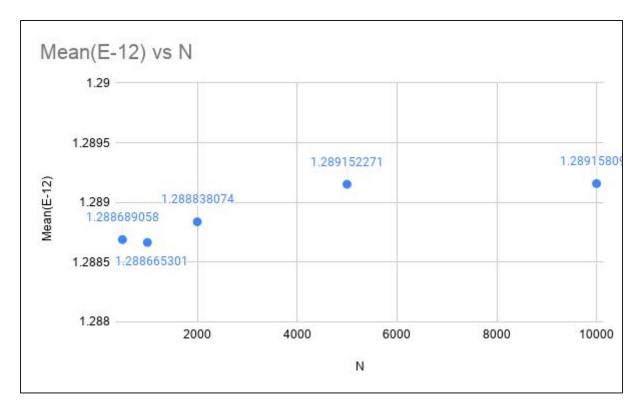


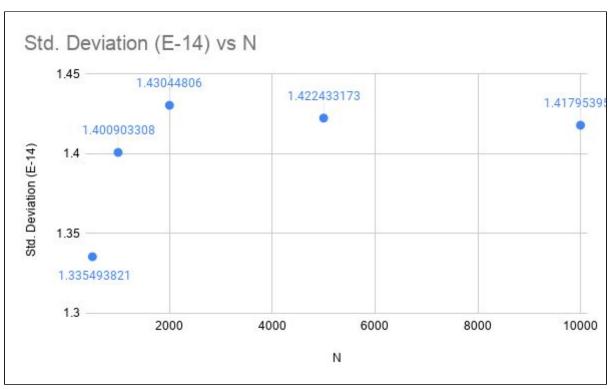
N = 10000







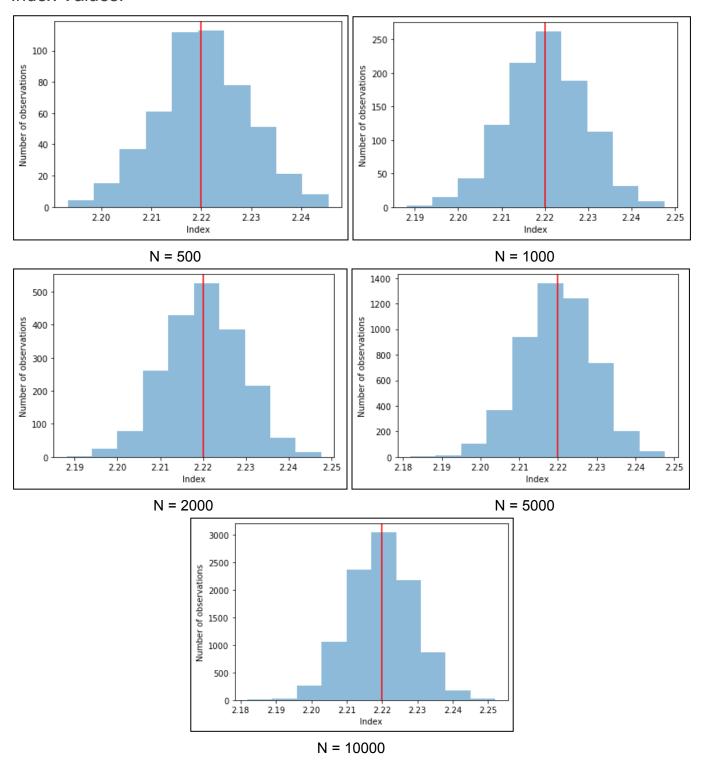


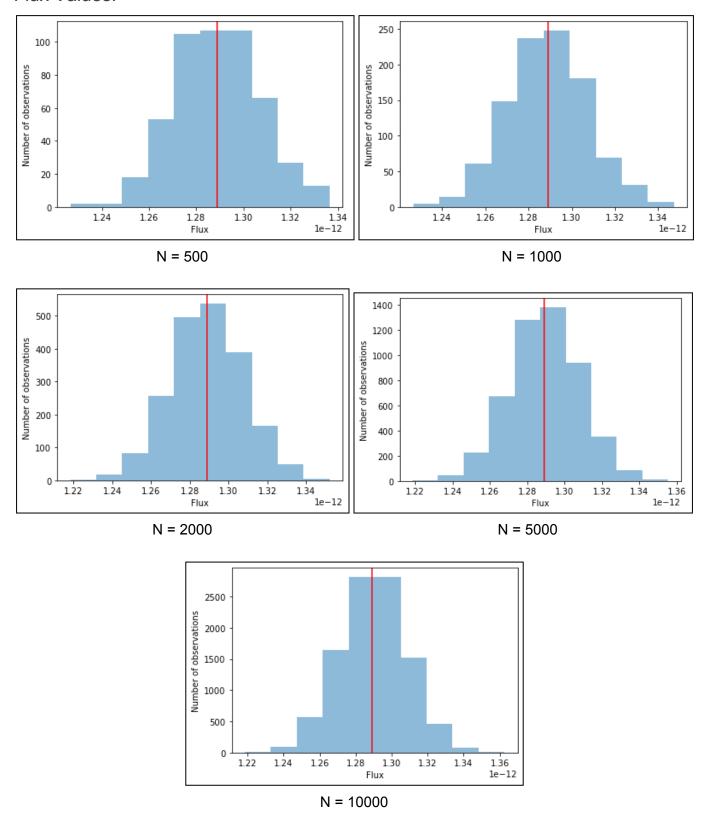


Exponentialcutoff-PowerLaw analysis for the different number of observations run and different cutoff value:

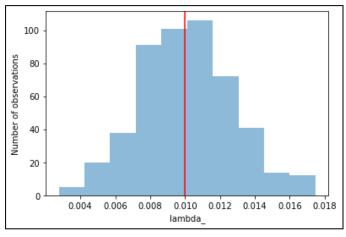
L = 0.01

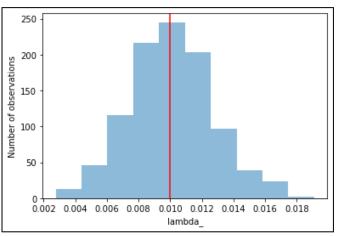
Index Values:



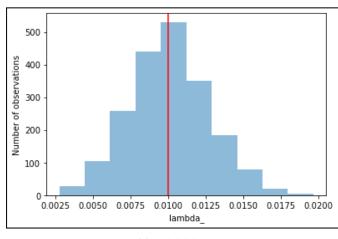


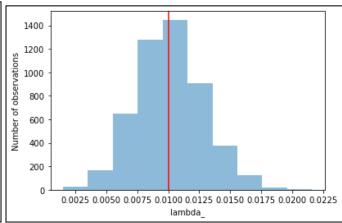
Cutoff Value:



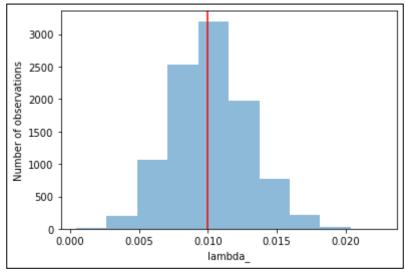


N = 500 N = 1000



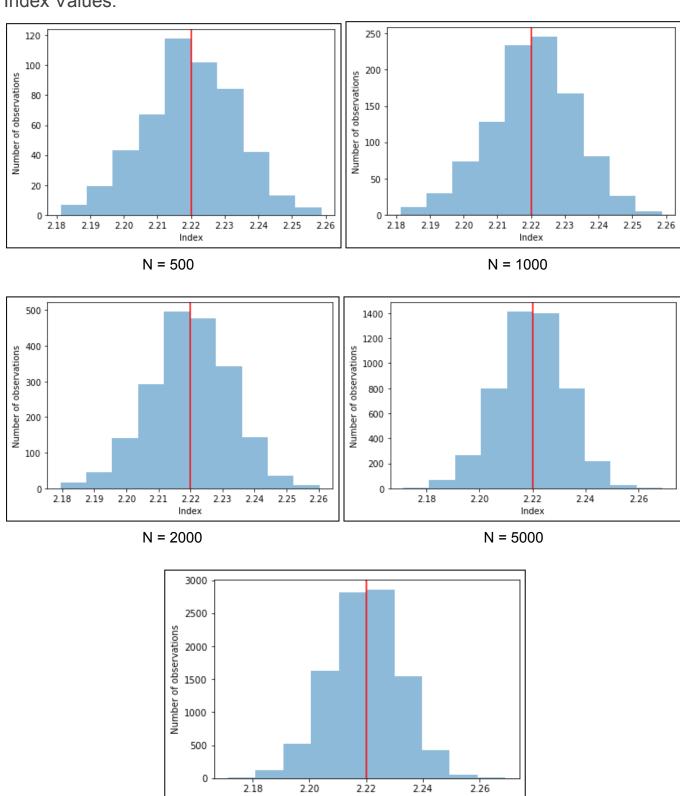


N = 2000 N = 5000

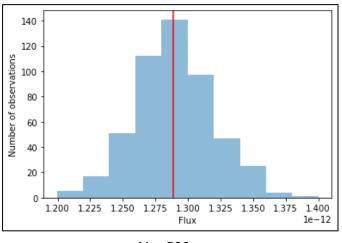


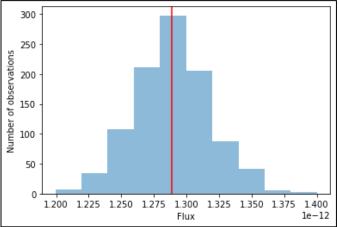
L = 0.1

Index Values:

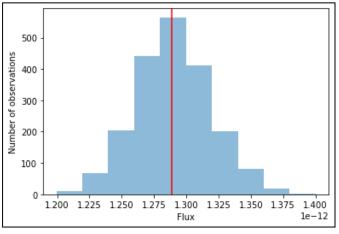


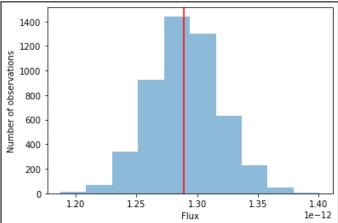
Index



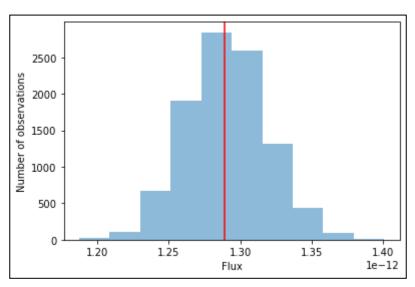


N = 500 N = 1000

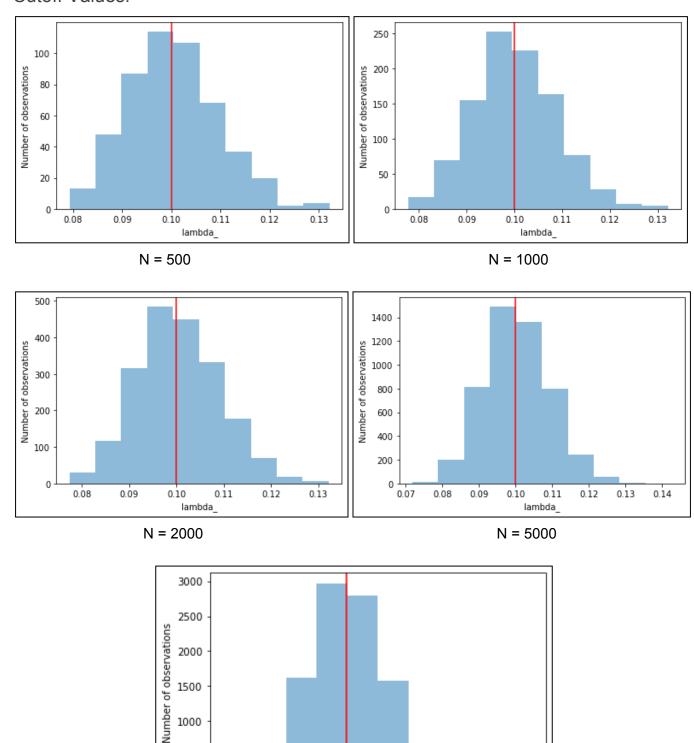




N = 2000 N = 5000



Cutoff Values:



0.10

N = 10000

0.11

lambda_

0.12

0.13

0.14

0.09

1000

500

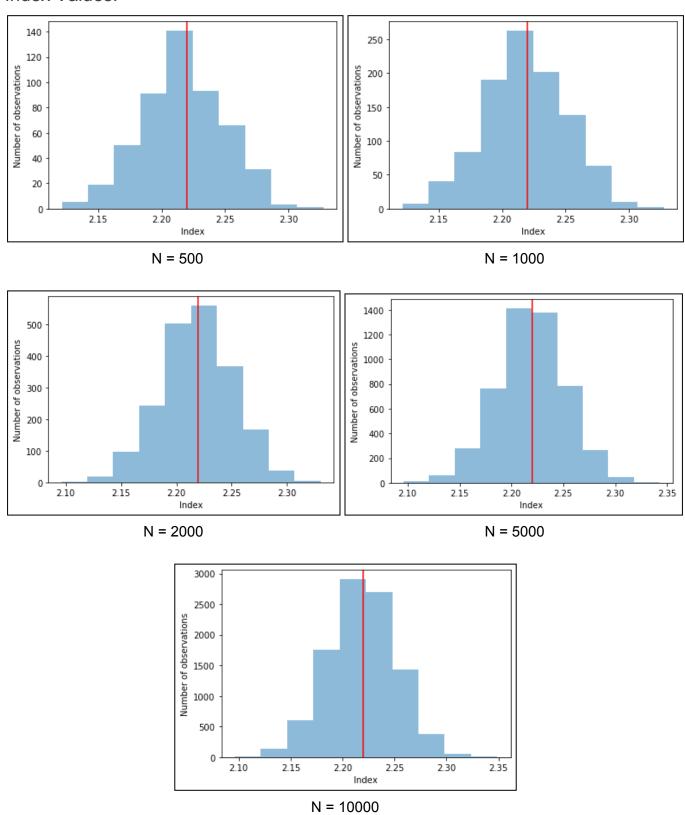
0

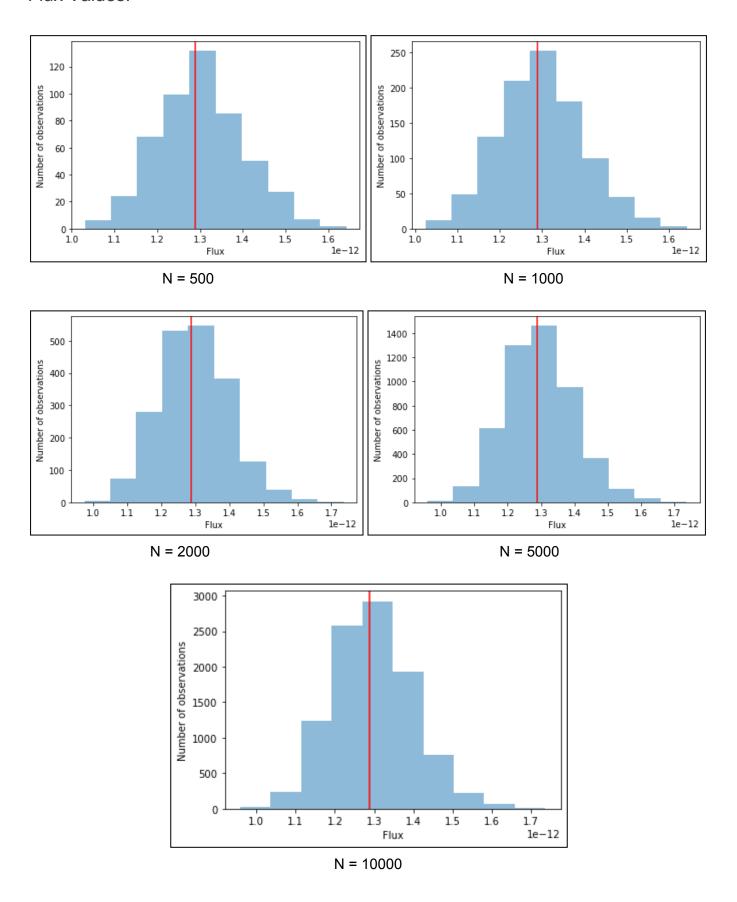
0.07

0.08

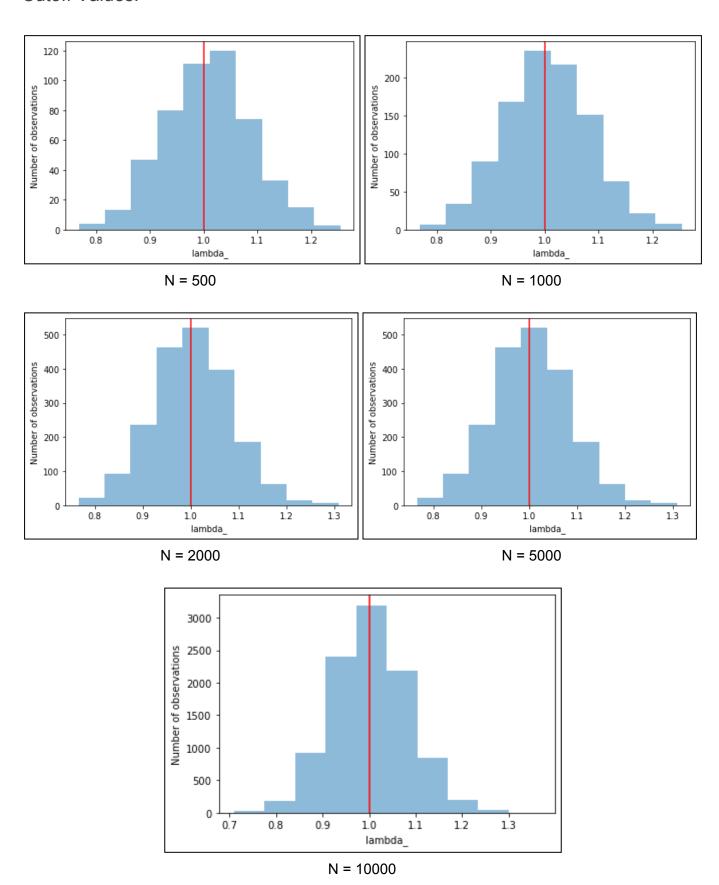
L = 1

Index Values:



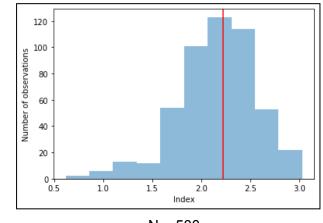


Cutoff Values:

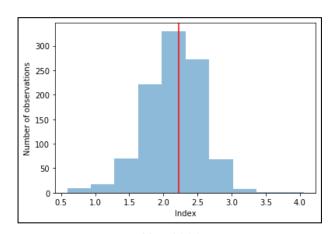


L = 10

Index Values:

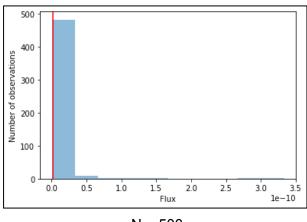


N = 500

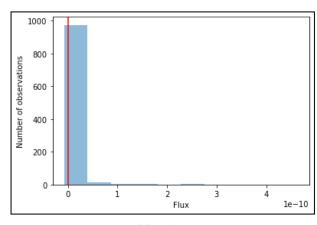


N = 1000

Flux Values:

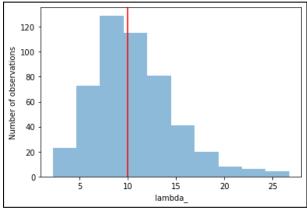


N = 500



N = 1000

Cutoff Values:



N = 500

