mnu Chain Diagnostics Report

Getrimmte Posterioren sind bedingt durch prior/floor — enge Unsicherheiten können artefaktbedingt sein.

Keine Detektionsaussage, bevor Mock-Recovery & Konvergenz-Checks abgeschlossen sind.

Chains analyzed: 3

Chain: chains_cosmo_quick_camb_floor.1

File: c:\Users\Jesse\Desktop\Experimente\CWSN\data\desi\edr\processed\voidfinder\vgcf\cobaya_pack\chain

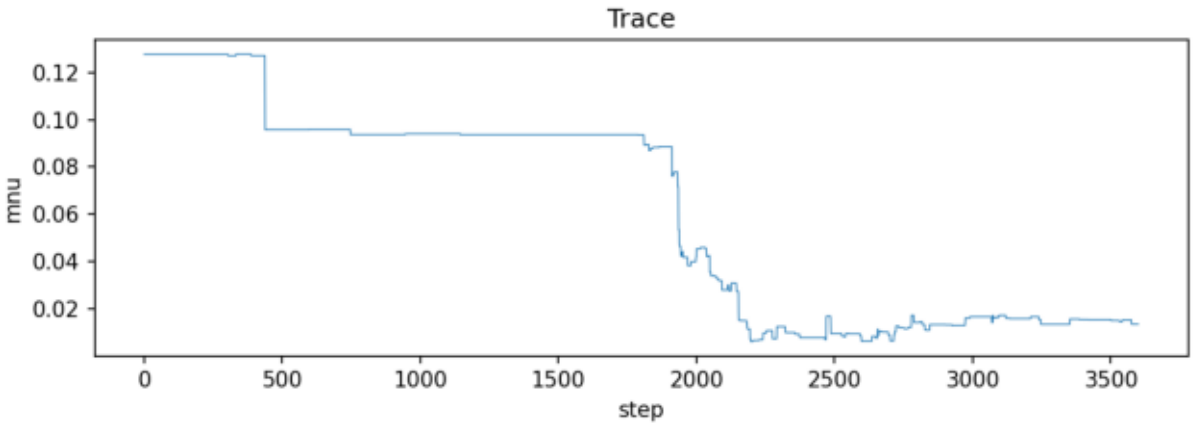
N=3600, mean=0.0552637, std=0.044, median=0.0339776

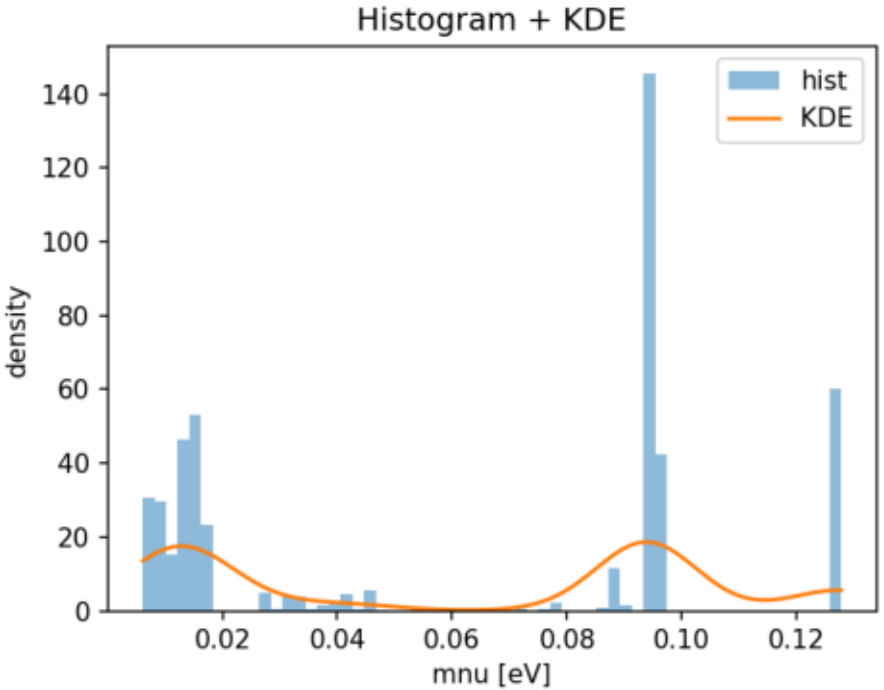
HPD68=[0.0134183, 0.095885], HPD95=[0.00779369, 0.12766]

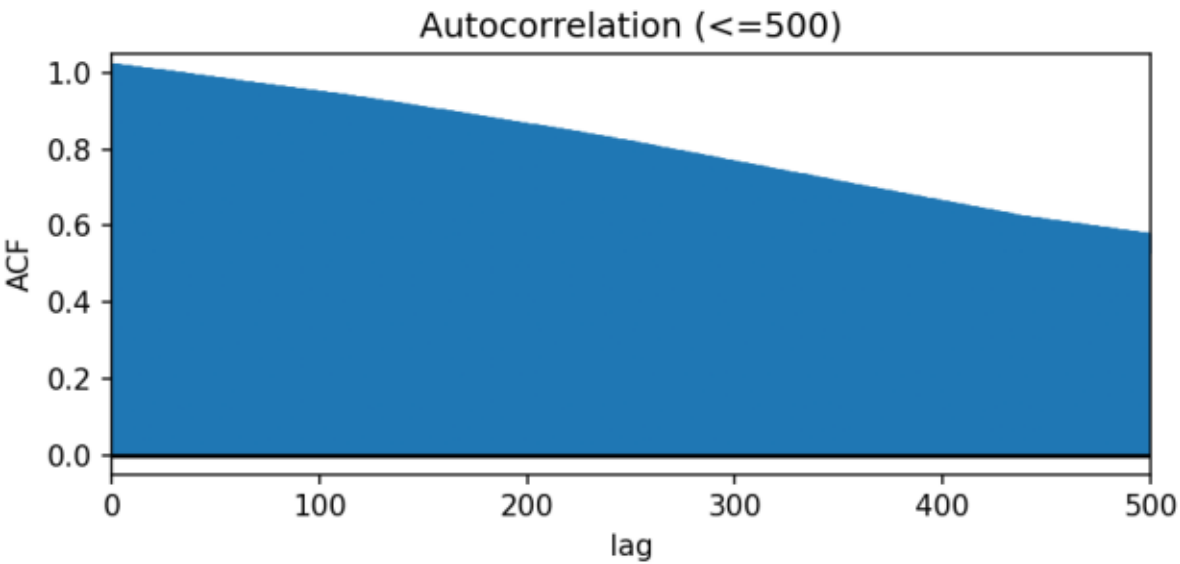
P(mnu>0.06)=0.468, P(mnu>0.1)=0.097

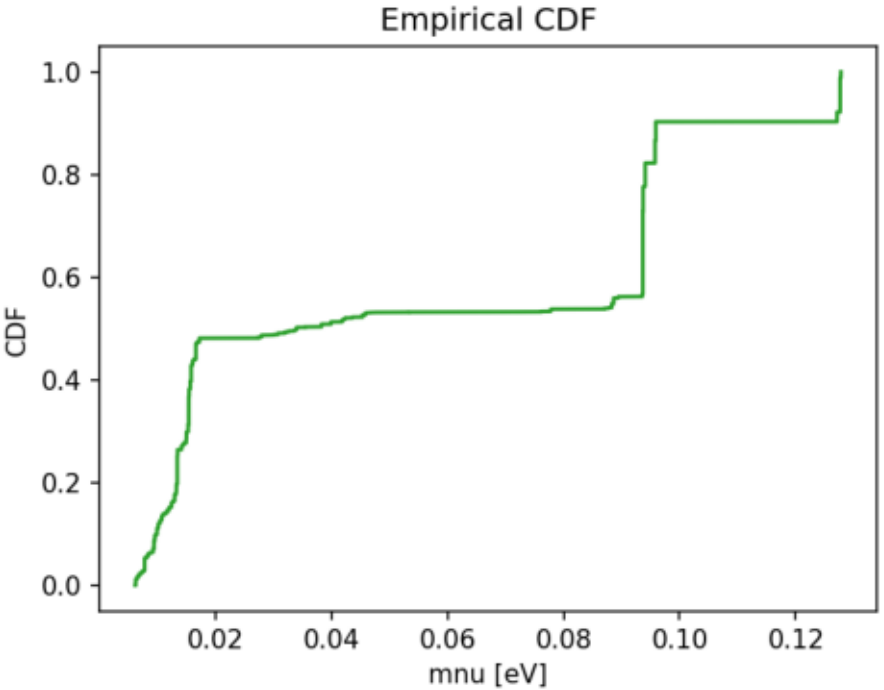
tau_int≈787.70, N_eff≈5, R̂_split4=3.129

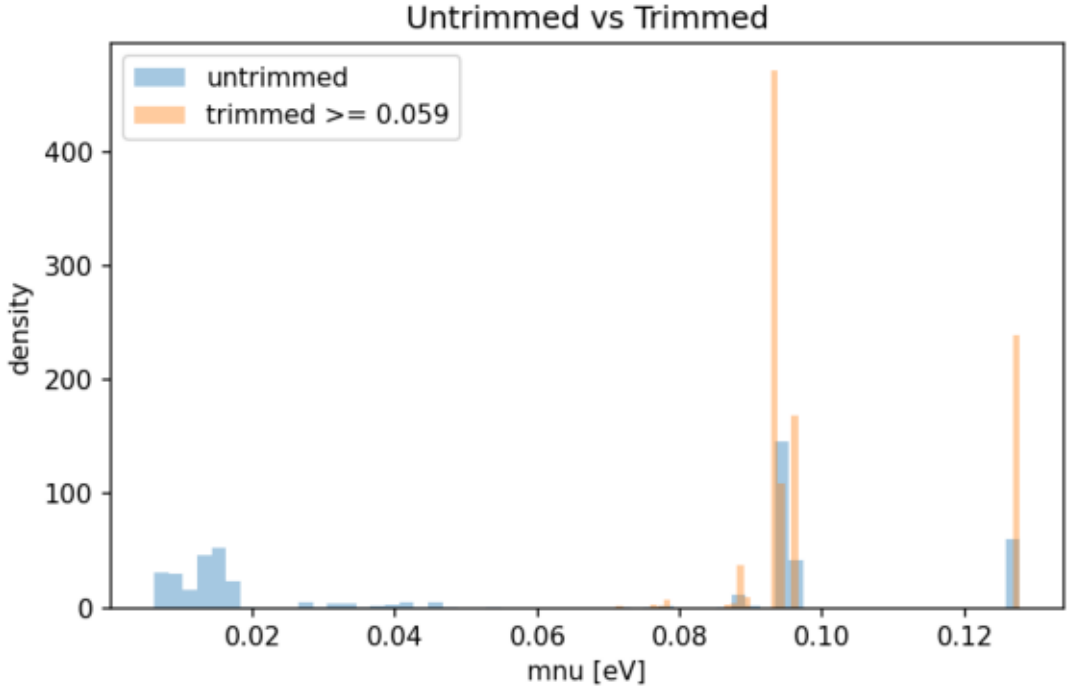
accept_rate_log: 0.273451


Trace
mnu
0.12
0.10
0.08
0.06
0.04
0.02
0
500
1000
1500
2000
2500
3000
3500
step


Histogram + KDE
hist
KDE
density
140
120
100
80
60
40
20
0
0.02
0.04
0.06
0.08
0.10
0.12
mnu [eV]


Autocorrelation (<=500)
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
lag


Empirical CDF
CDF
1.0
0.8
0.6
0.4
0.2
0.0
0.02
0.04
0.06
0.08
0.10
0.12
mnu [eV]


Untrimmed vs Trimmed
untrimmed
trimmed >= 0.059
density
0
100
200
300
400
0.02
0.04
0.06
0.08
0.10
0.12
mnu [eV]

Chain: chains_cosmo_quick_camb_floor_prior059.1

File: c:\Users\Jesse\Desktop\Experimente\CWSN\data\desi\edr\processed\voidfinder\vgcf\cobaya_pack\chain

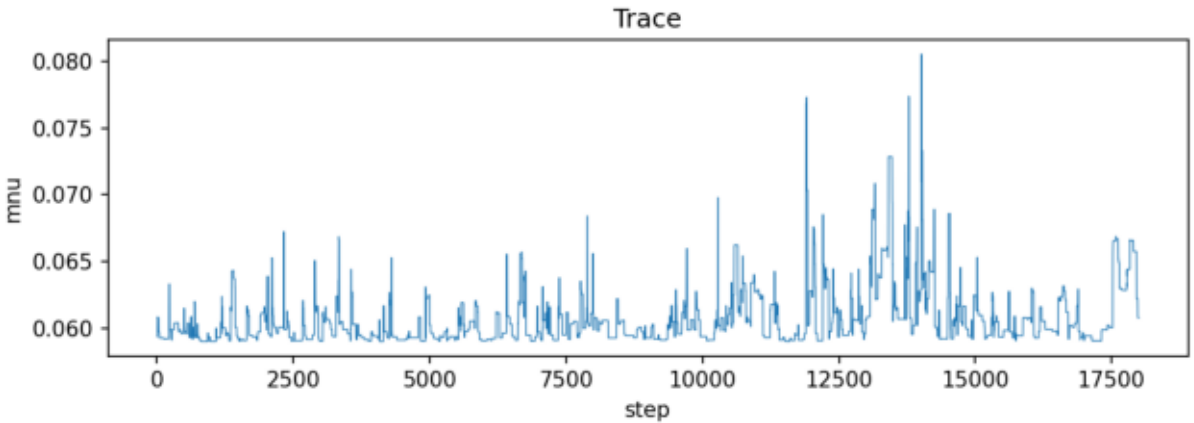
N=18000, mean=0.060329, std=0.00181, median=0.0596921

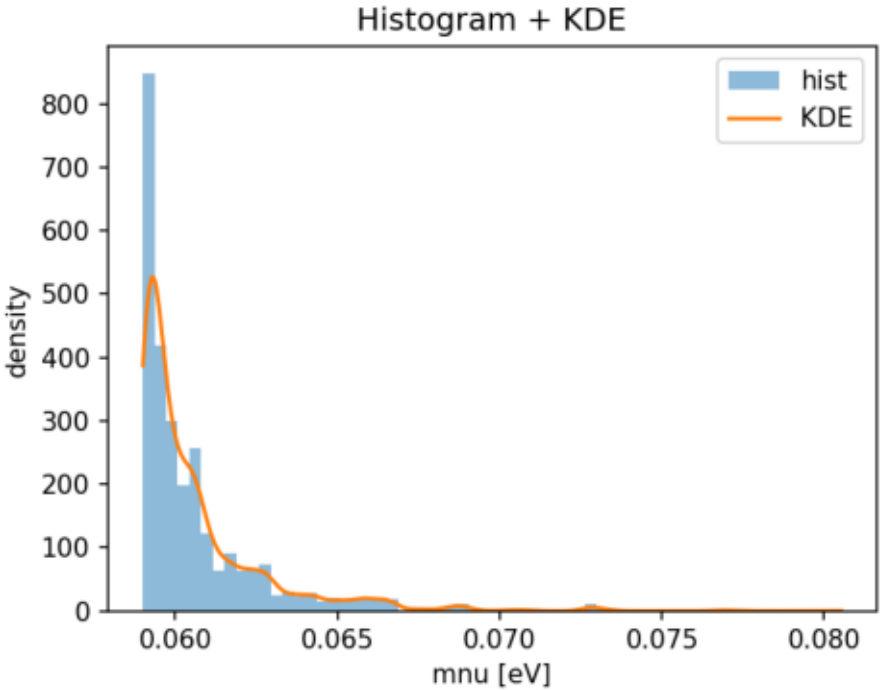
HPD68=[0.059005, 0.0603409], HPD95=[0.059005, 0.0638698]

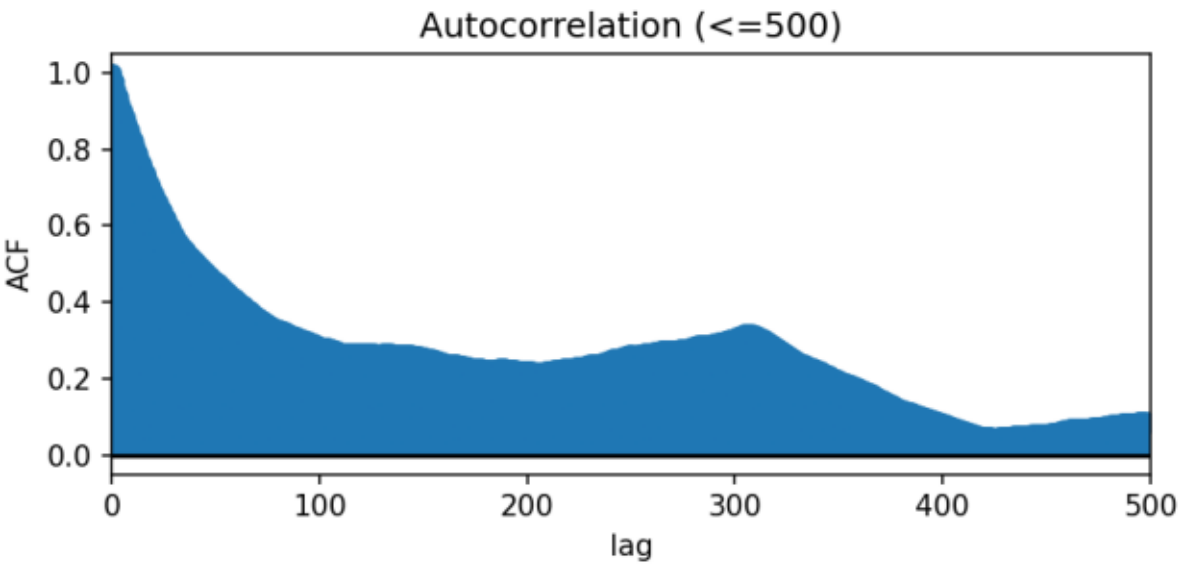
P(mnu>0.06)=0.393, P(mnu>0.1)=0.000

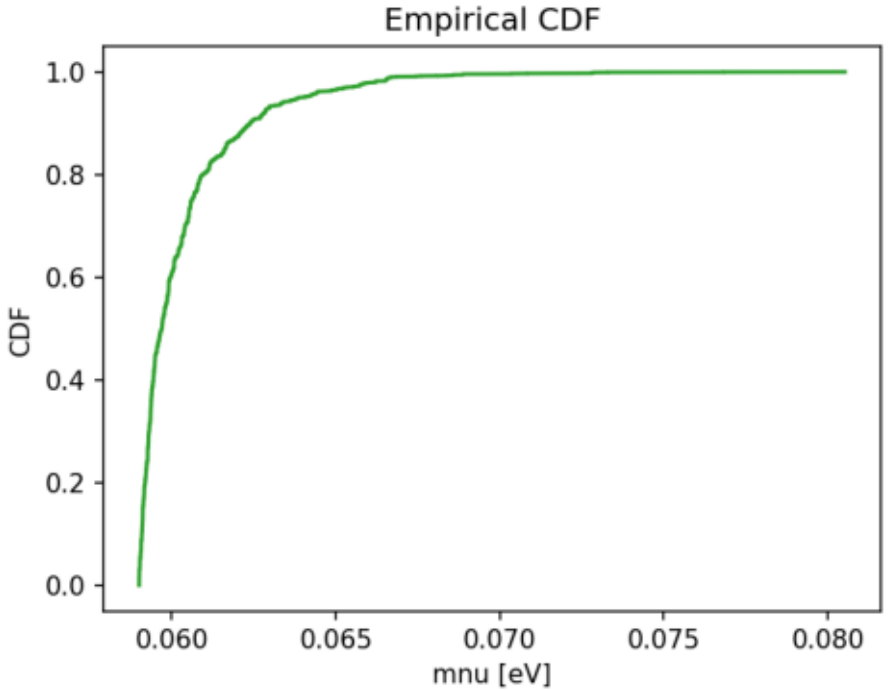
tau_int≈256.62, N_eff≈70, R̂_split4=1.065

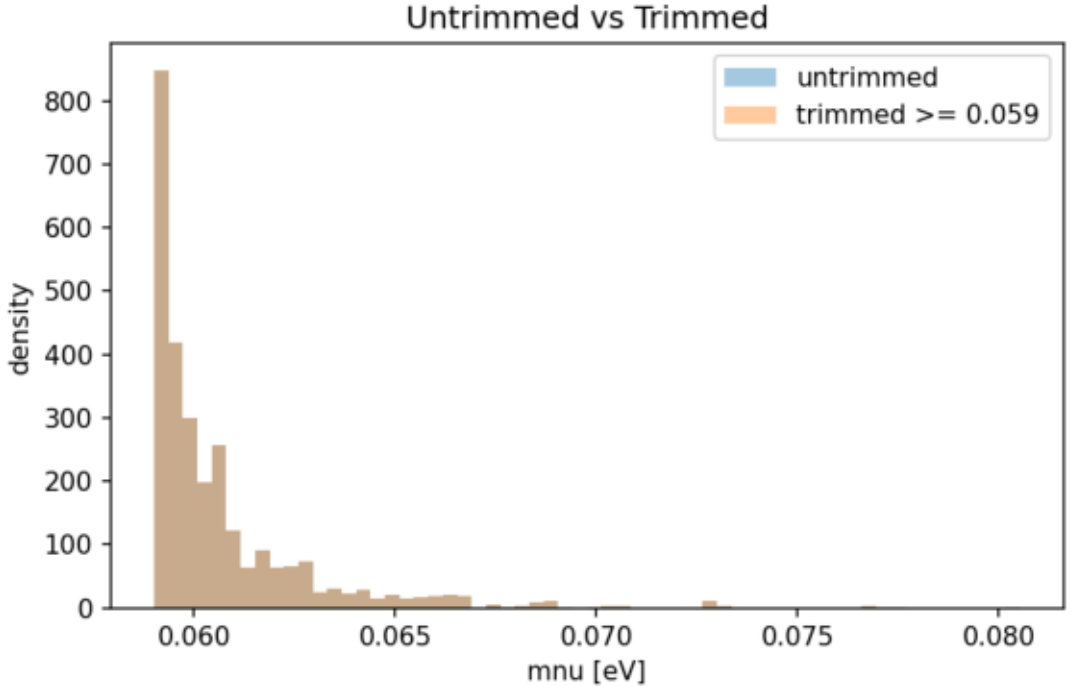
accept_rate_log: NA


Trace
0.080
0.075
0.070
0.065
0.060
mnu
0
2500
5000
7500
10000
12500
15000
17500
step


Histogram + KDE
hist
KDE
density
800
700
600
500
400
300
200
100
0
0.060
0.065
0.070
0.075
0.080
mnu [eV]


Autocorrelation (<=500)
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
lag


Empirical CDF
CDF
1.0
0.8
0.6
0.4
0.2
0.0
0.060
0.065
0.070
0.075
0.080
mnu [eV]


Untrimmed vs Trimmed
untrimmed
trimmed >= 0.059
density
800
700
600
500
400
300
200
100
0
0.060
0.065
0.070
0.075
0.080
mnu [eV]

Chain: chains_cosmo_quick_camb_ncdm3.1

File: c:\Users\Jesse\Desktop\Experimente\CWSN\data\desi\edr\processed\voidfinder\vgcf\cobaya_pack\chain

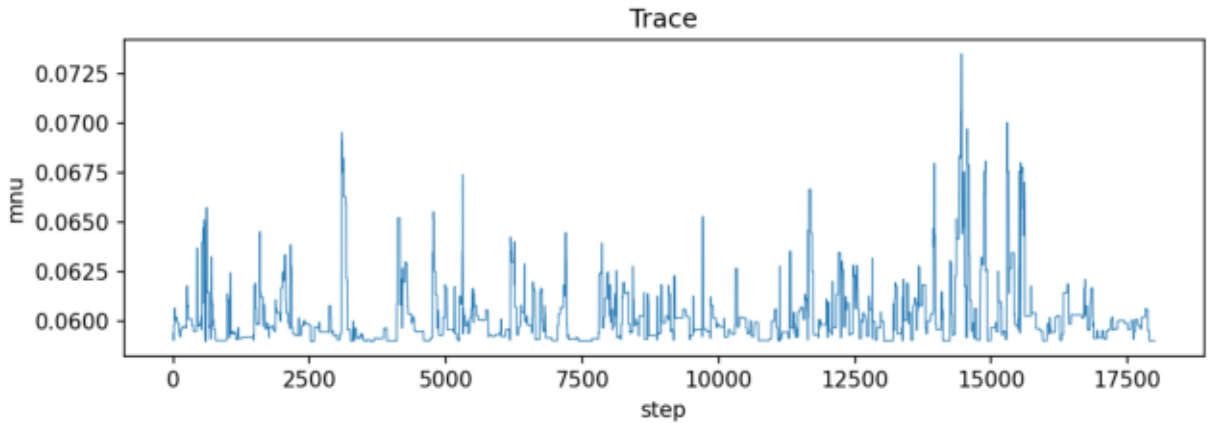
N=18000, mean=0.0601484, std=0.0015, median=0.0596712

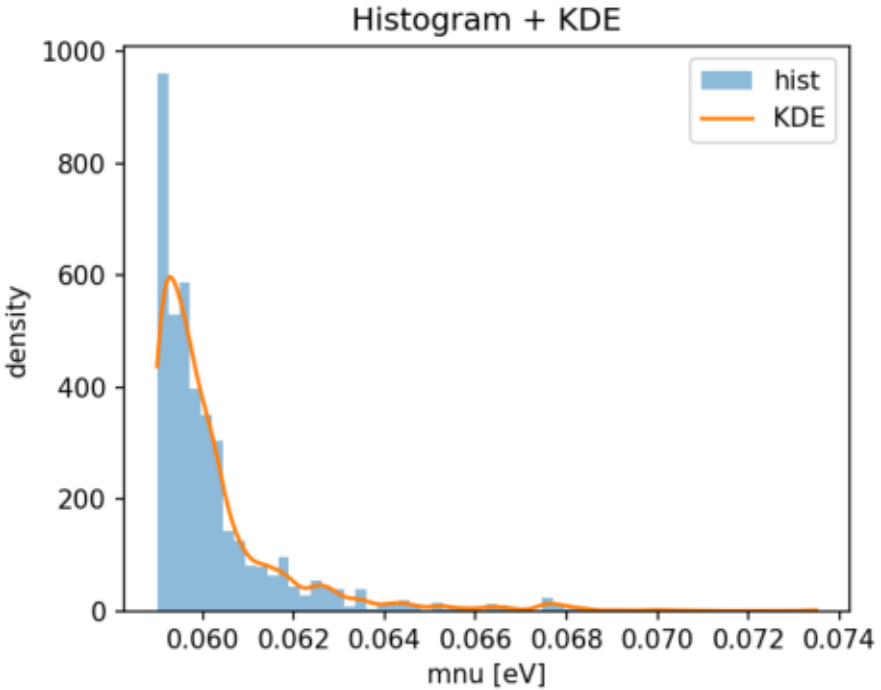
HPD68=[0.0590016, 0.0601183], HPD95=[0.0590016, 0.0629973]

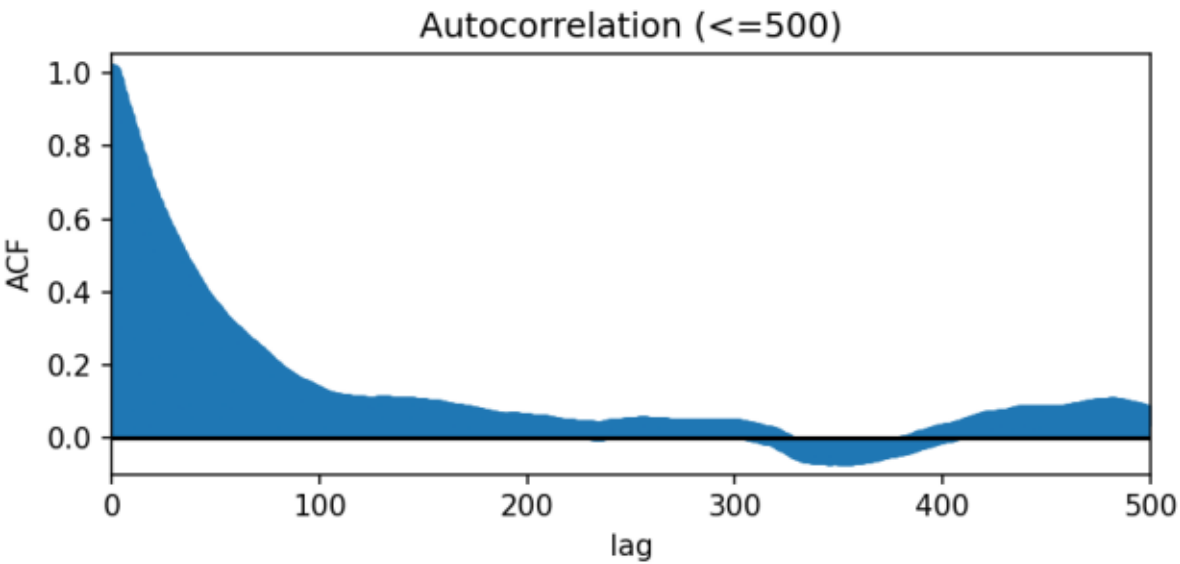
P(mnu>0.06)=0.361, P(mnu>0.1)=0.000

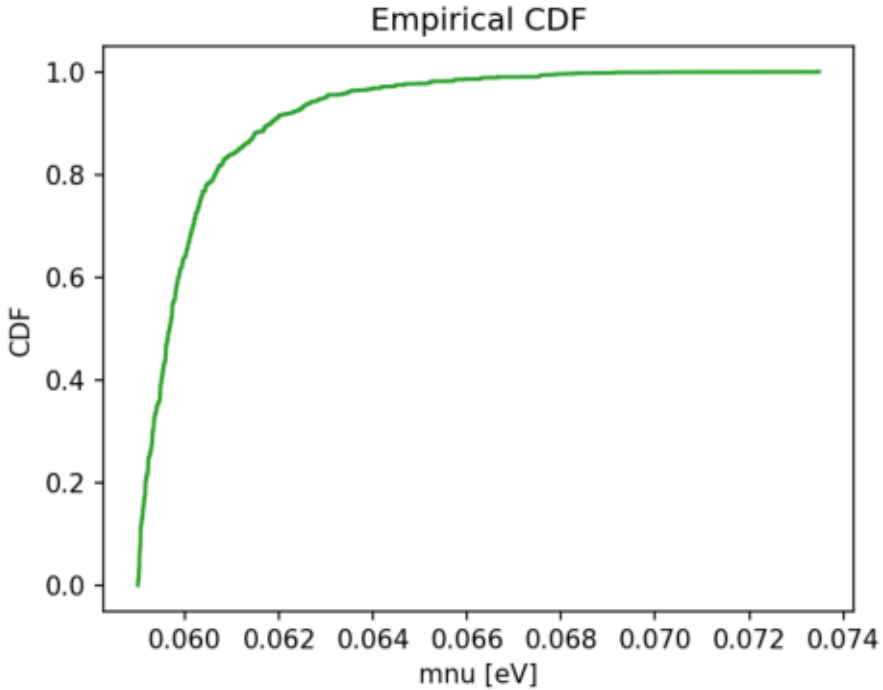
tau_int≈103.40, N_eff≈174, R̂_split4=1.019

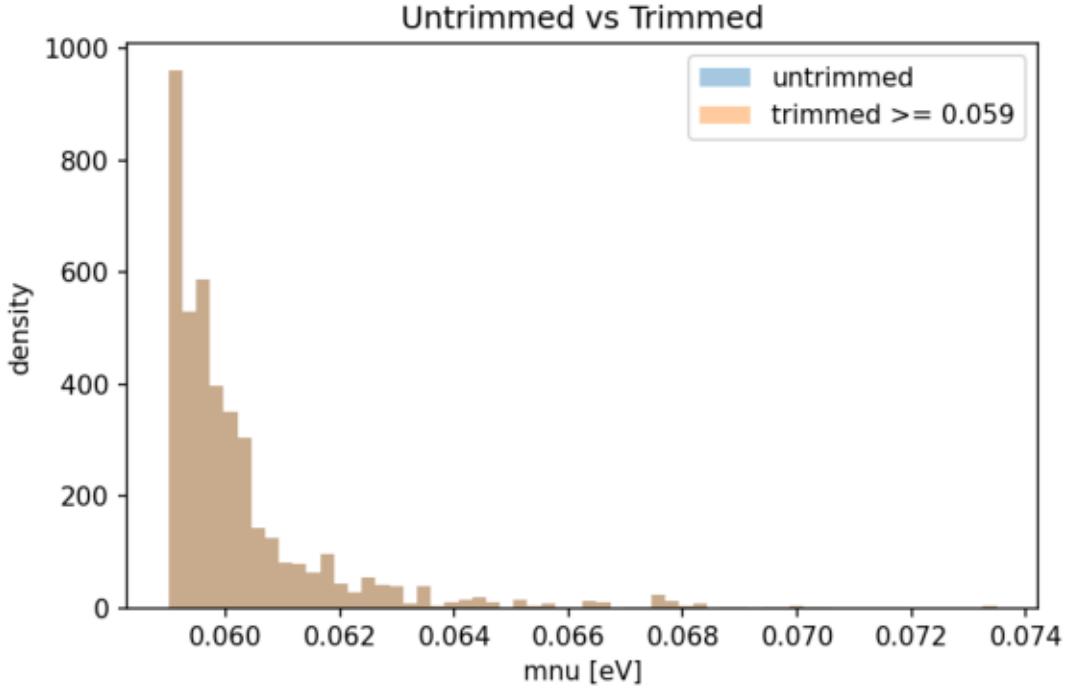
accept_rate_log: NA


Trace
mnu
0.0725
0.0700
0.0675
0.0650
0.0625
0.0600
0
2500
5000
7500
10000
12500
15000
17500
step


Histogram + KDE
hist
KDE
density
1000
800
600
400
200
0
0.060
0.062
0.064
0.066
0.068
0.070
0.072
0.074
mnu [eV]


Autocorrelation (<=500)
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
lag


Empirical CDF
CDF
1.0
0.8
0.6
0.4
0.2
0.0
0.060
0.062
0.064
0.066
0.068
0.070
0.072
0.074
mnu [eV]


Untrimmed vs Trimmed
untrimmed
trimmed >= 0.059
density
1000
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0.060
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0.064
0.066
0.068
0.070
0.072
0.074
mnu [eV]