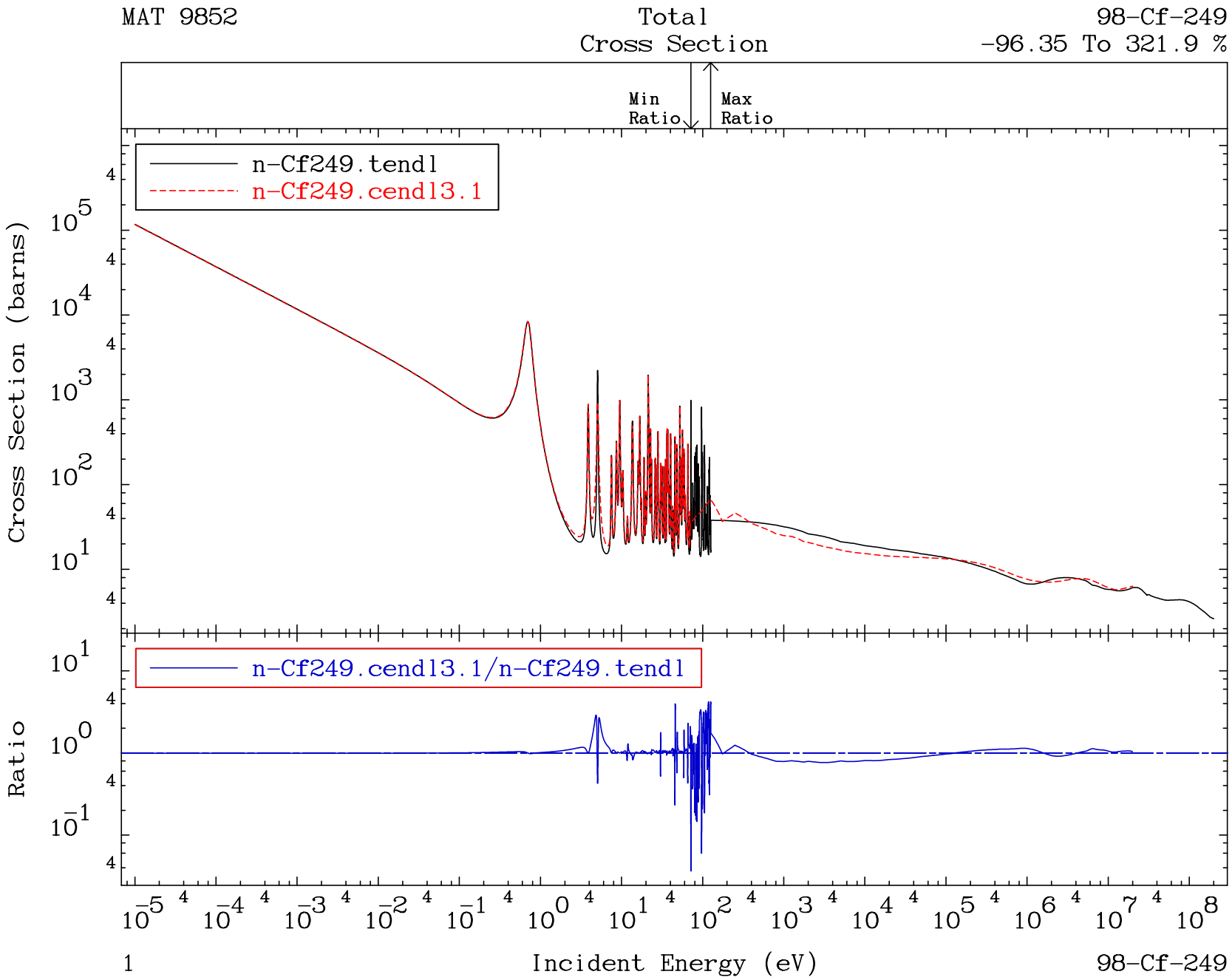
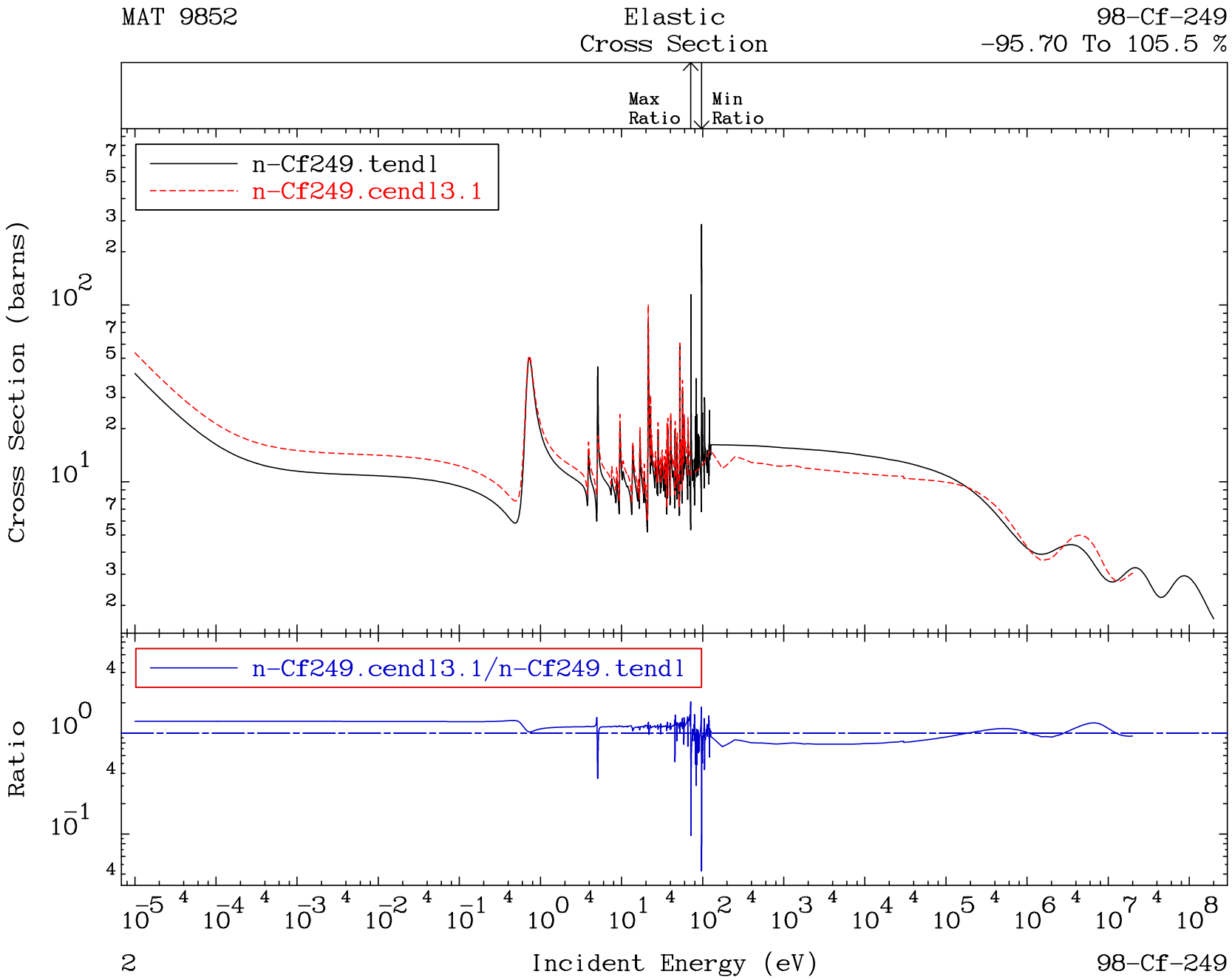
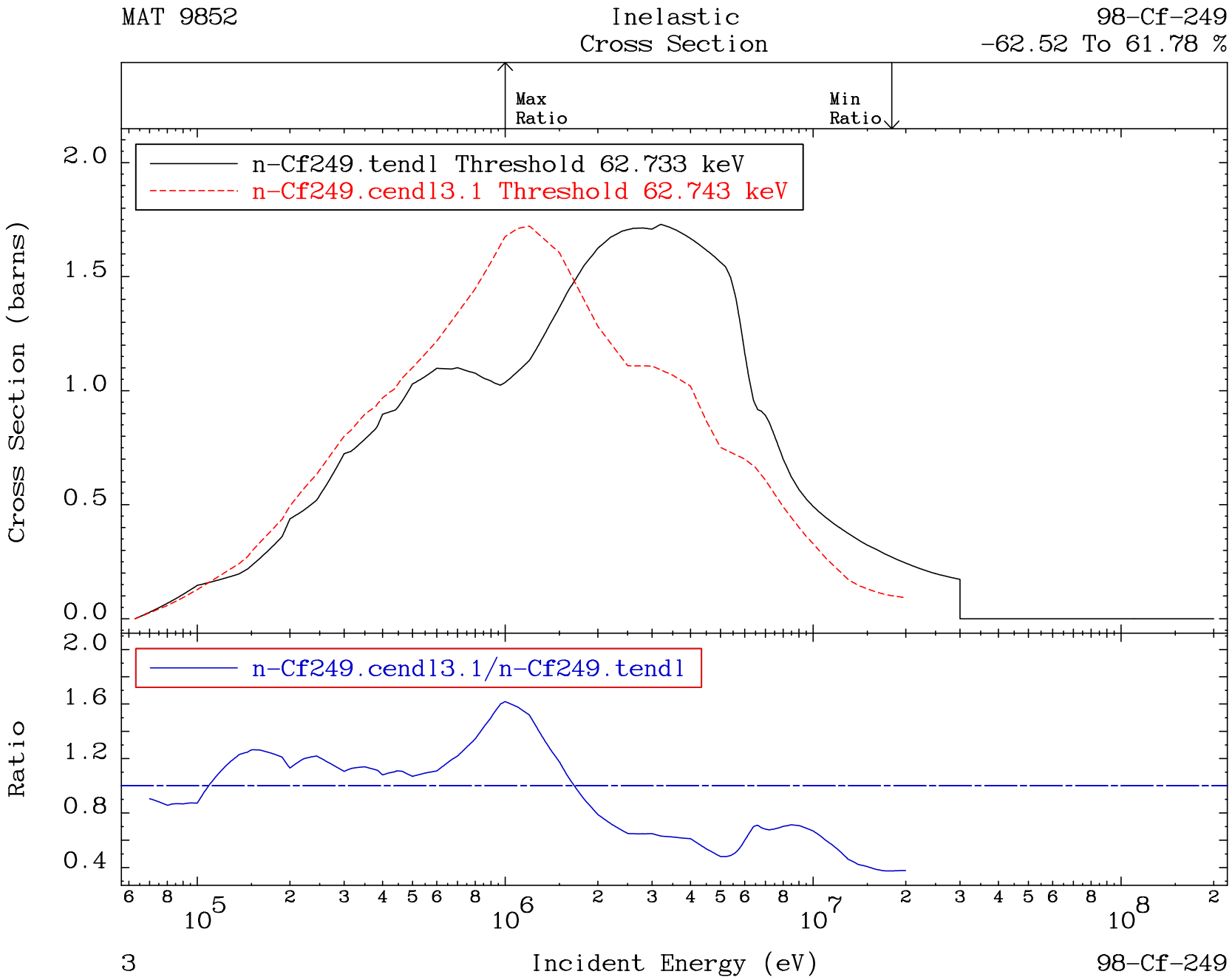
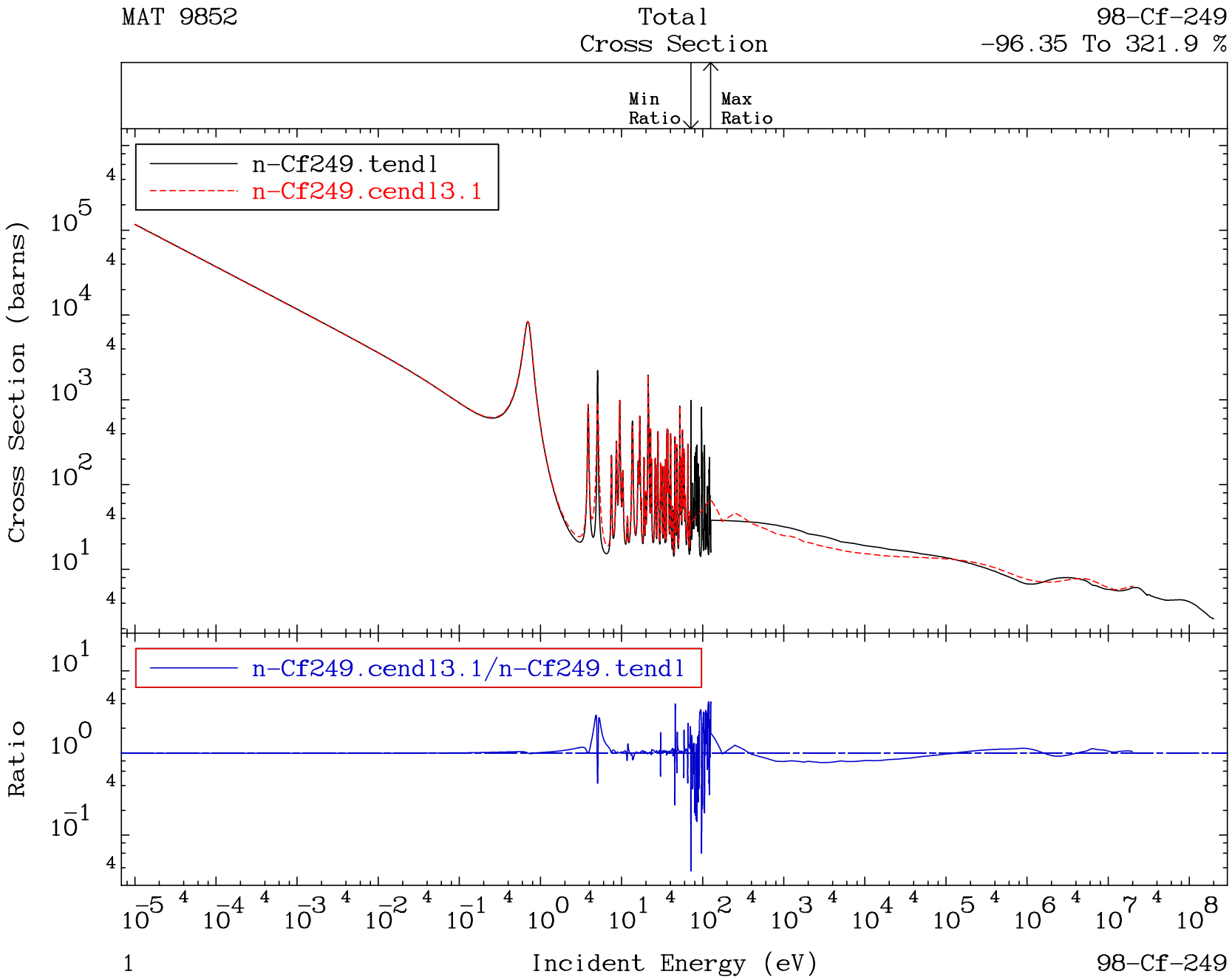
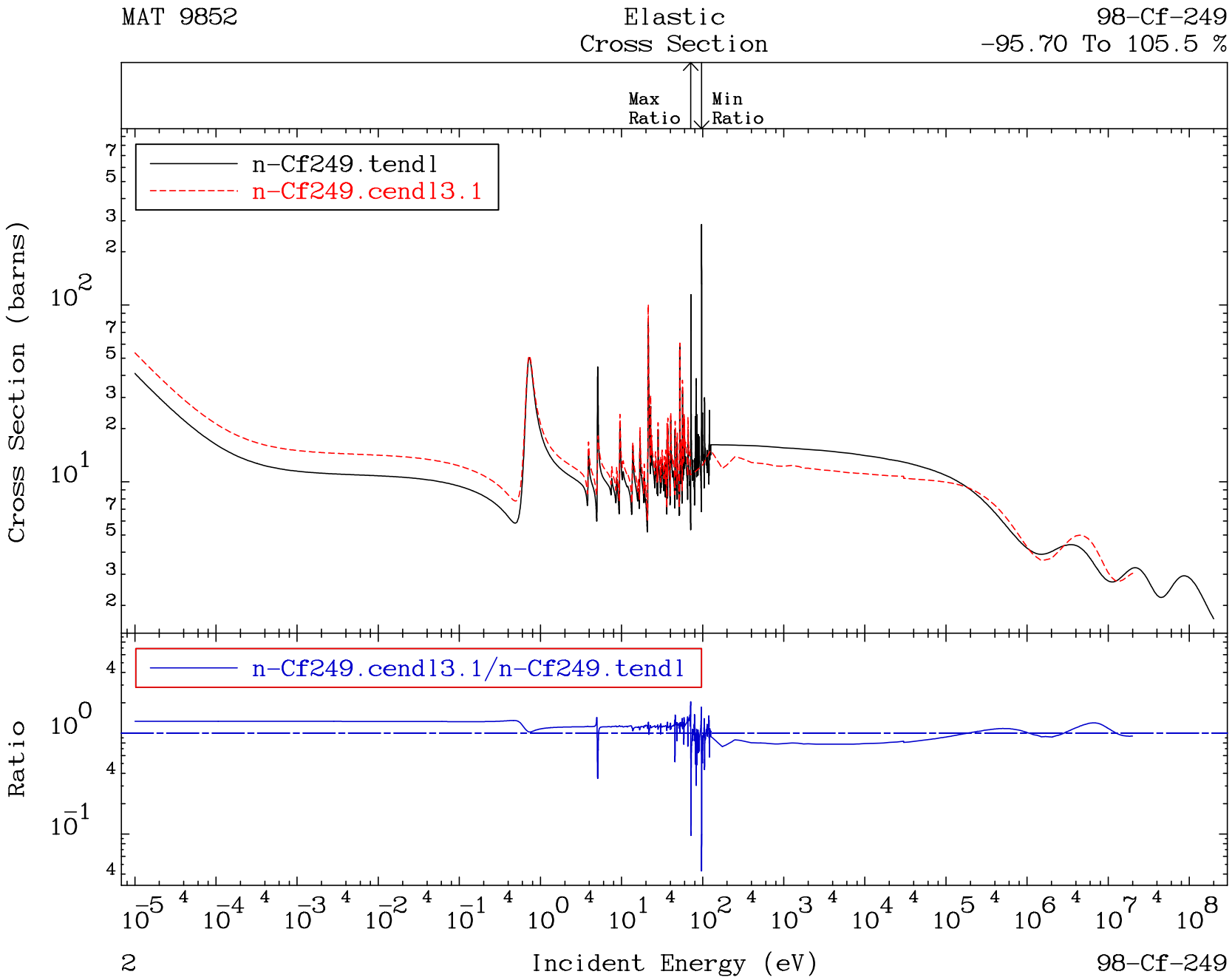
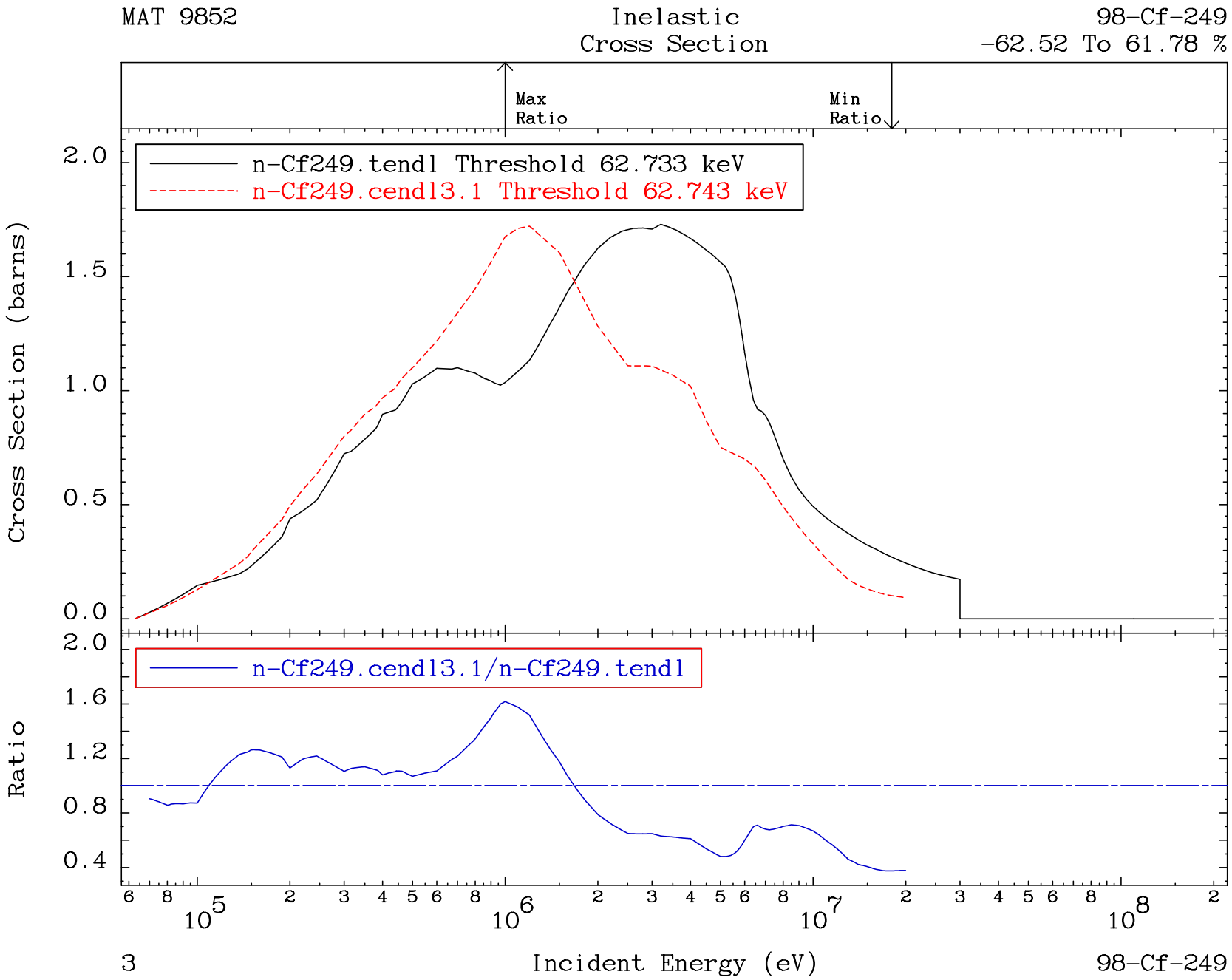

MAT 9852
Total
Cross Section
98-Cf-249
-96.35 To 321.9 %
Min
Ratio
Max
Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
1
98-Cf-249

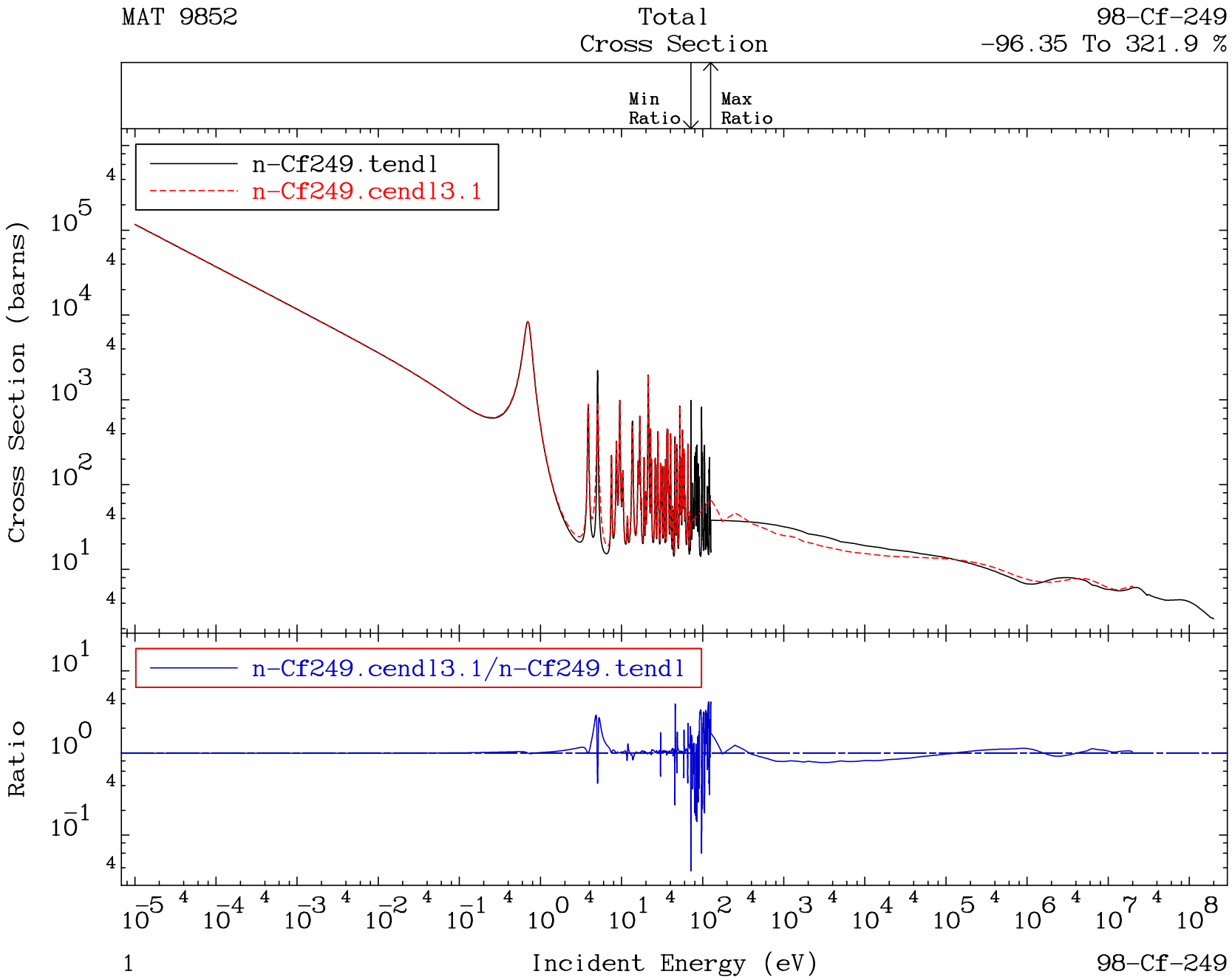

MAT 9852
Elastic
Cross Section
98-Cf-249
-95.70 To 105.5 %
Max
Ratio
Min
Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
2
98-Cf-249

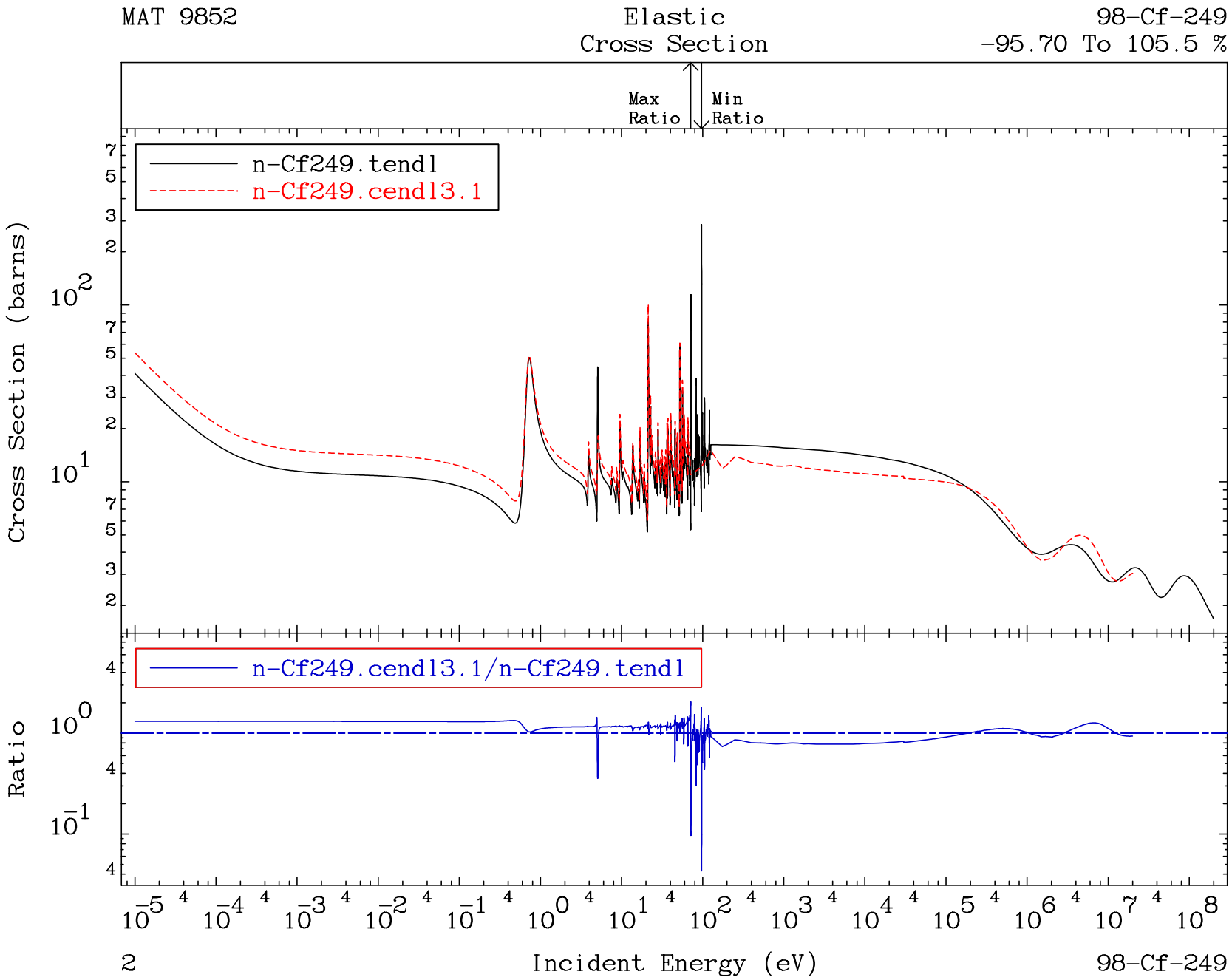

MAT 9852
Inelastic
Cross Section
98-Cf-249
-62.52 To 61.78 %
Max
Ratio
Min
Ratio
n-Cf249.tendl Threshold 62.733 keV
n-Cf249.cendl3.1 Threshold 62.743 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
2.0
1.6
1.2
0.8
0.4
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
98-Cf-249

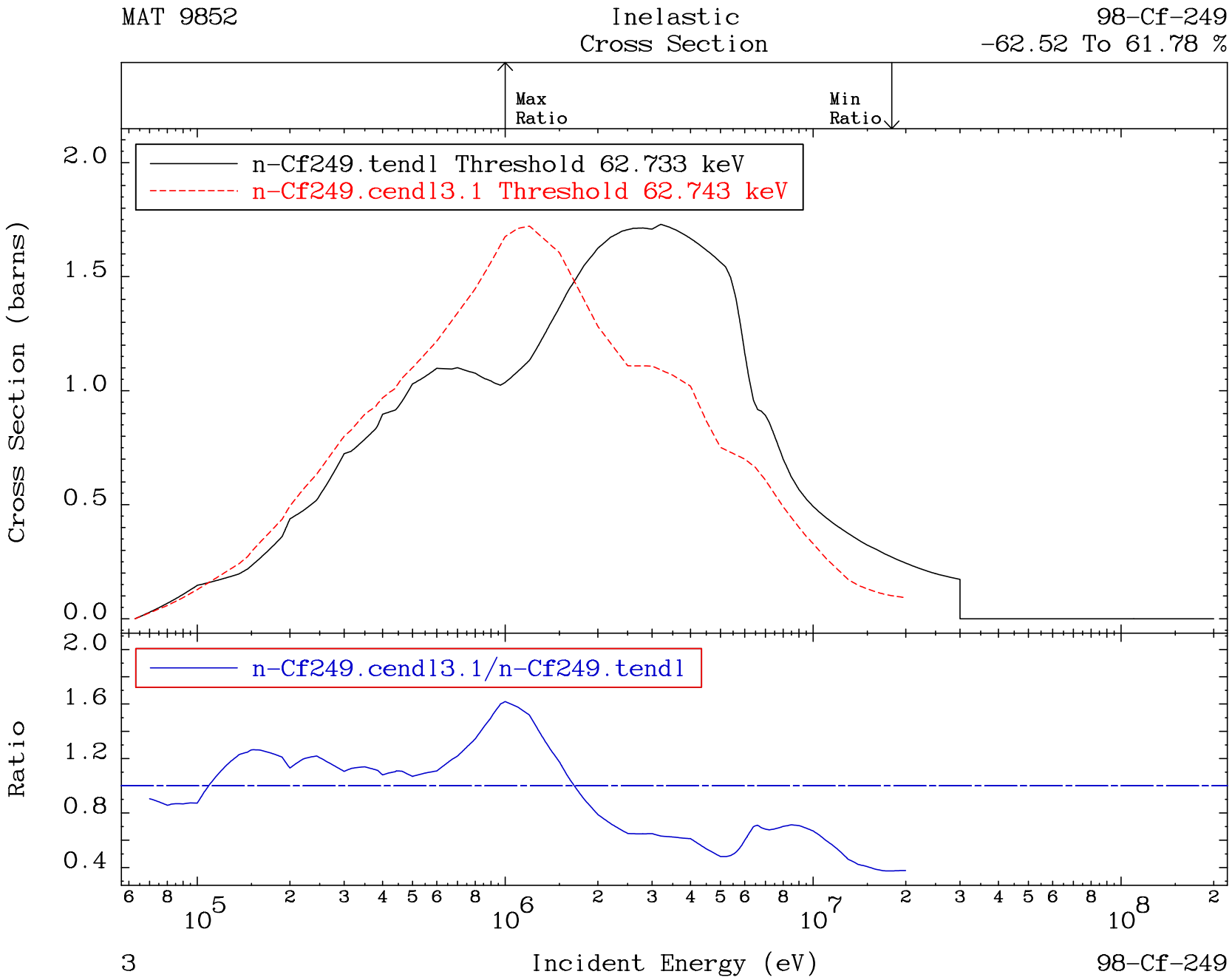

MAT 9852
Total
Cross Section
98-Cf-249
-96.35 To 321.9 %
Min
Ratio
Max
Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
1
98-Cf-249

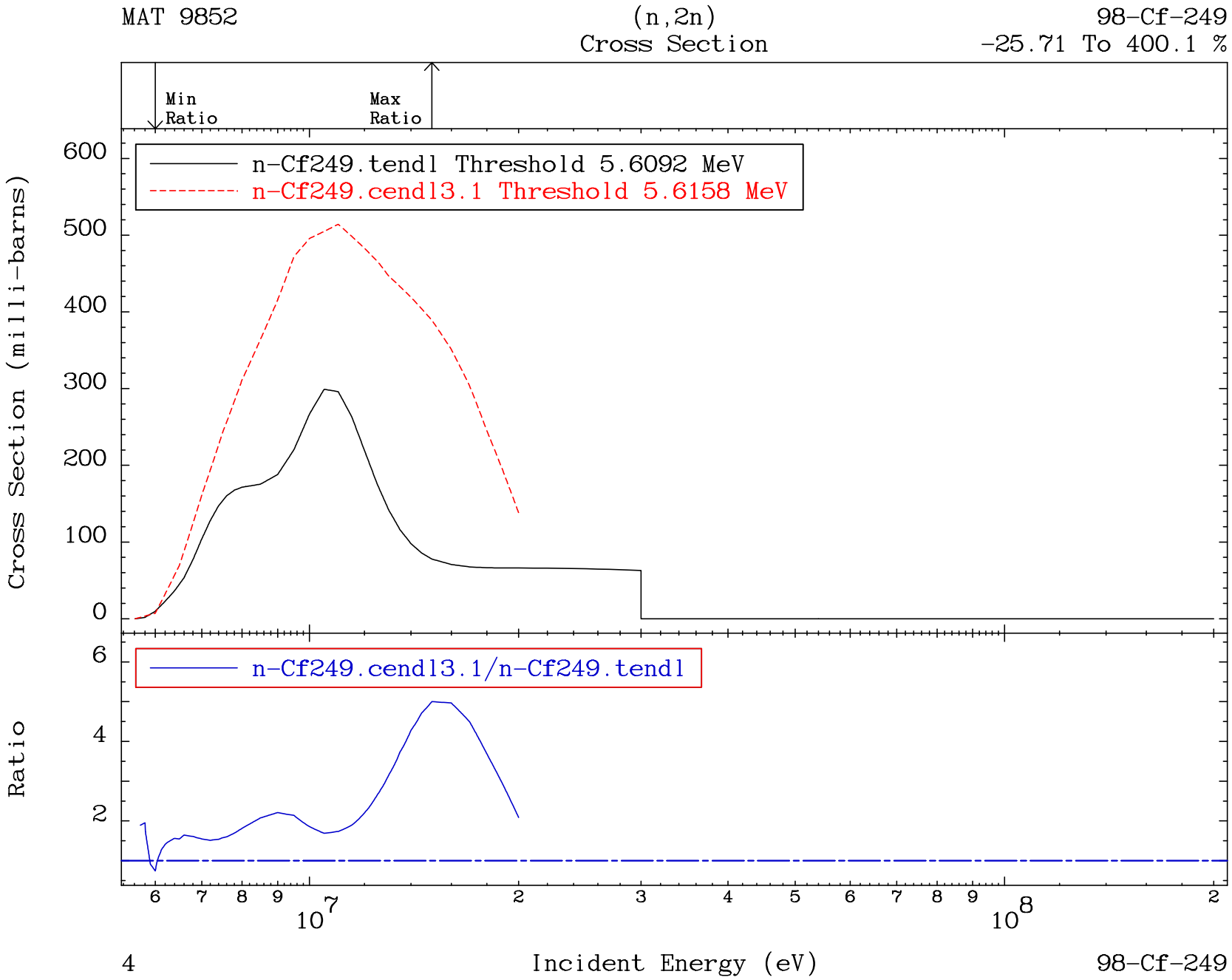

MAT 9852
Elastic
Cross Section
98-Cf-249
-95.70 To 105.5 %
Max
Ratio
Min
Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
2
98-Cf-249

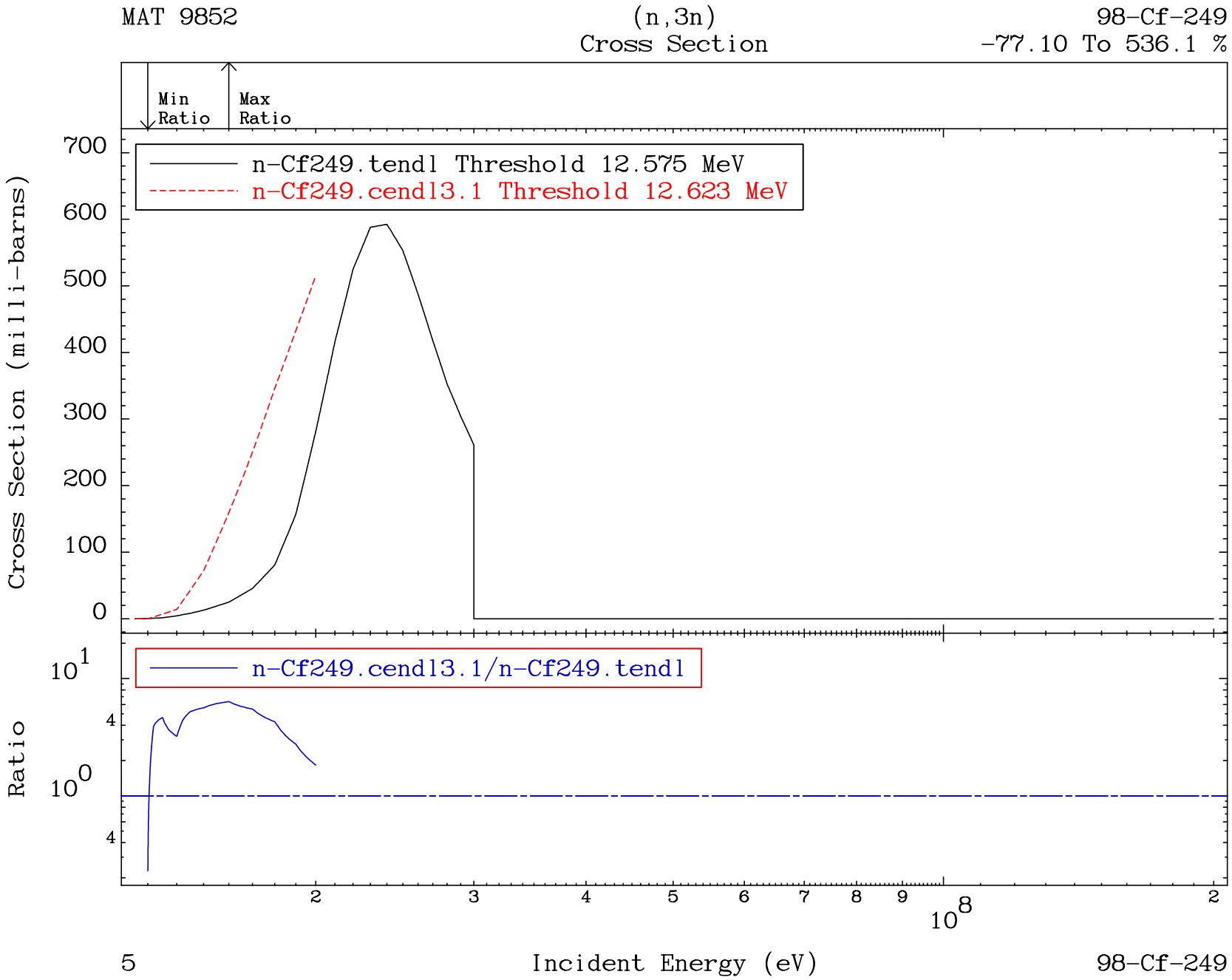

MAT 9852
Inelastic
Cross Section
98-Cf-249
-62.52 To 61.78 %
Max
Ratio
Min
Ratio
n-Cf249.tendl Threshold 62.733 keV
n-Cf249.cendl3.1 Threshold 62.743 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
2.0
1.6
1.2
0.8
0.4
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
98-Cf-249

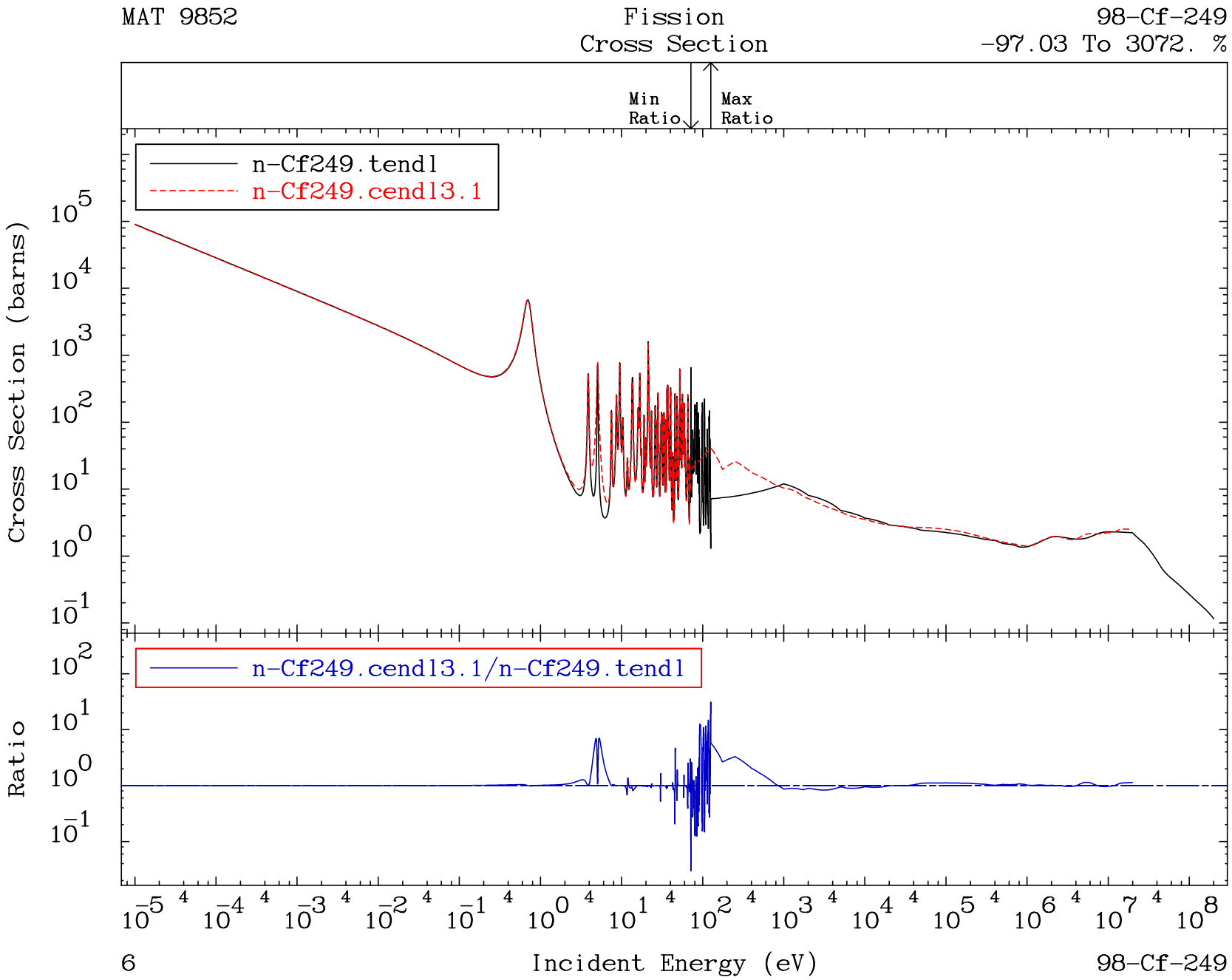

MAT 9852
Total
Cross Section
98-Cf-249
-96.35 To 321.9 %
Min
Ratio
Max
Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
1
98-Cf-249

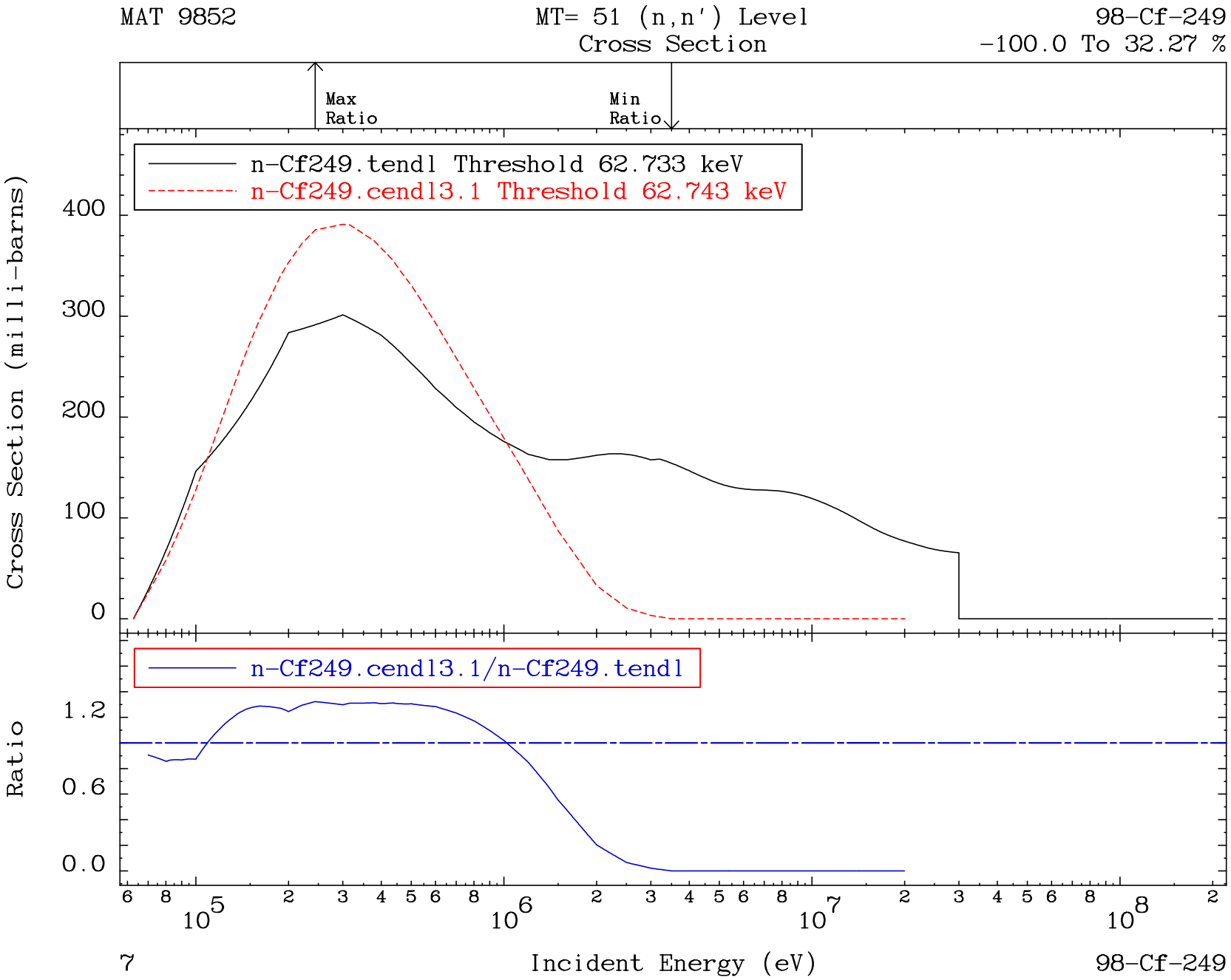

MAT 9852
Elastic
Cross Section
98-Cf-249
-95.70 To 105.5 %
Max
Ratio
Min
Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
2
98-Cf-249

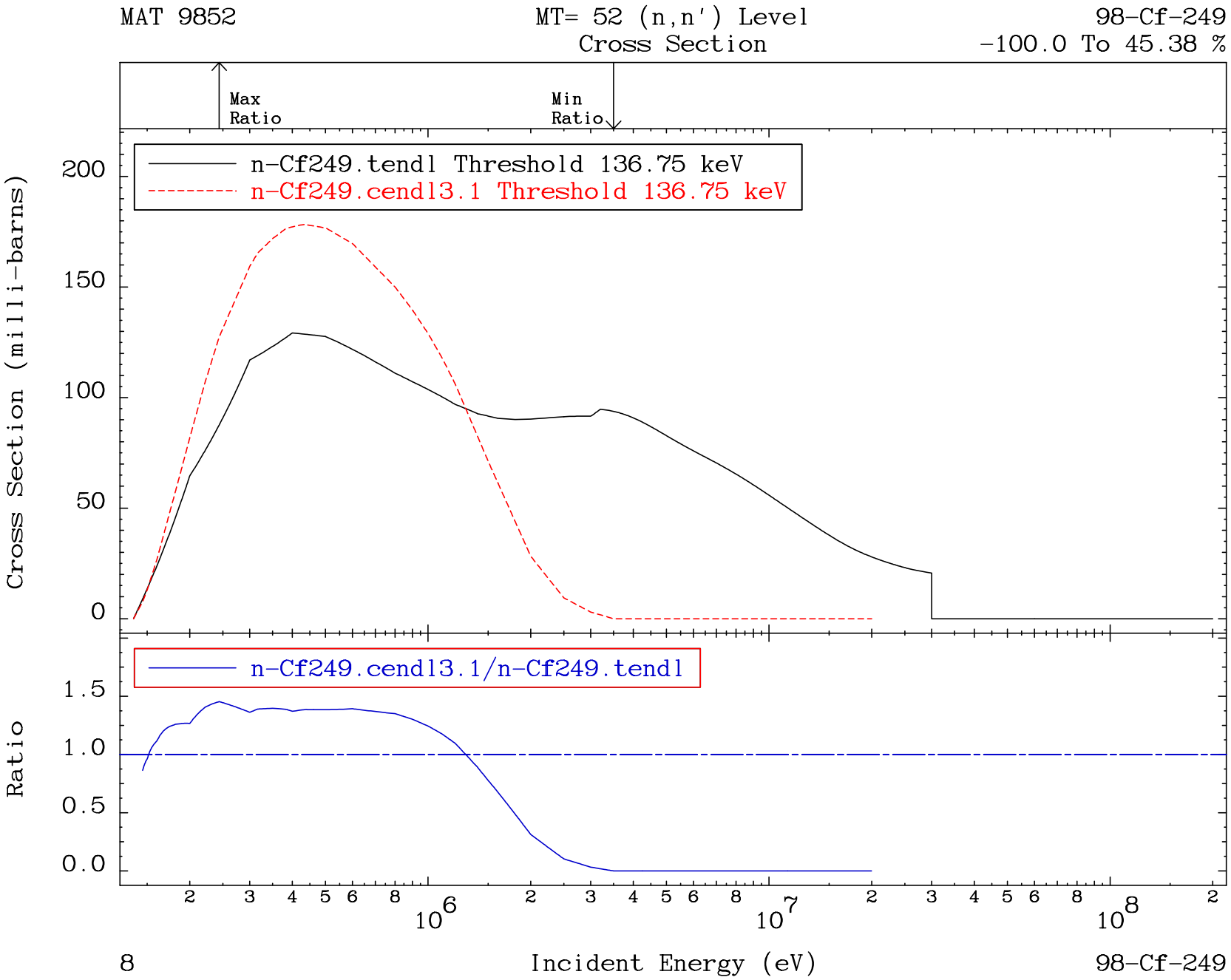

MAT 9852
Inelastic
Cross Section
98-Cf-249
-62.52 To 61.78 %
Max
Ratio
Min
Ratio
n-Cf249.tendl Threshold 62.733 keV
n-Cf249.cendl3.1 Threshold 62.743 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
2.0
1.6
1.2
0.8
0.4
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
98-Cf-249

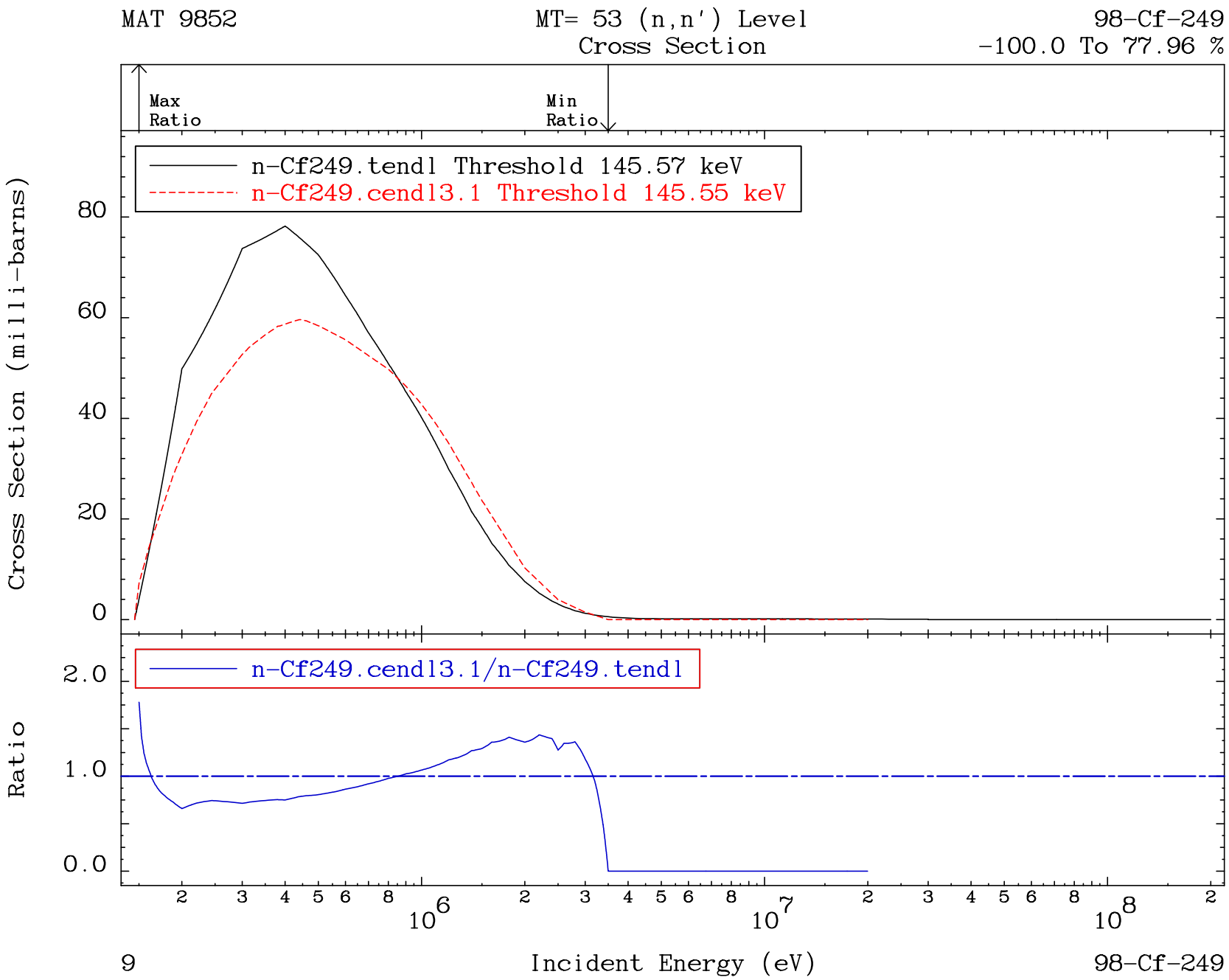

MAT 9852
(n,2n)
Cross Section
98-Cf-249
-25.71 To 400.1 %
Min Ratio
Max Ratio
n-Cf249.tendl Threshold 5.6092 MeV
n-Cf249.cendl3.1 Threshold 5.6158 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
6
4
2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
4
98-Cf-249

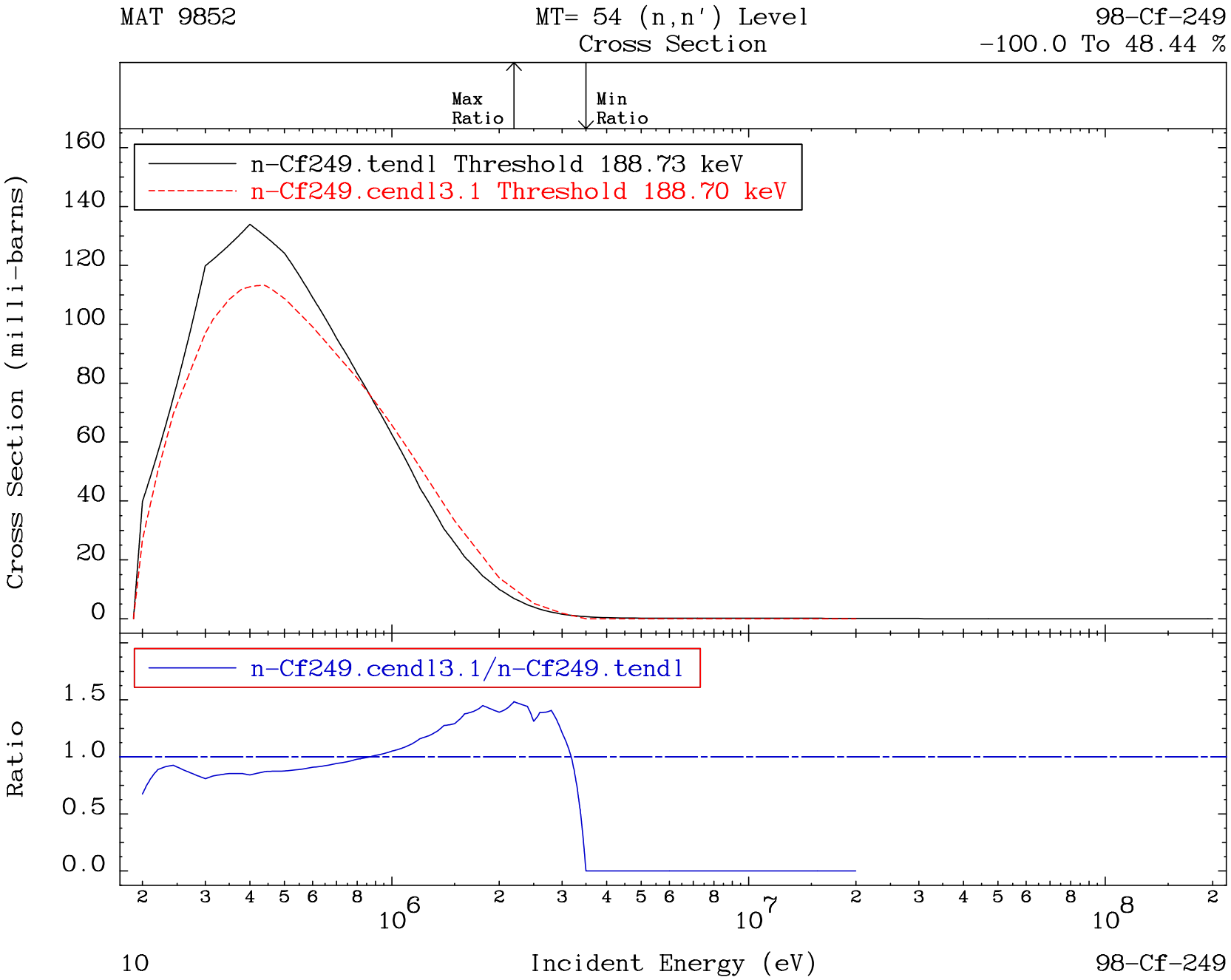

MAT 9852
(n,3n)
Cross Section
98-Cf-249
-77.10 To 536.1 %
Min Ratio
Max Ratio
n-Cf249.tendl Threshold 12.575 MeV
n-Cf249.cendl3.1 Threshold 12.623 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
10^1
4
10^0
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
98-Cf-249

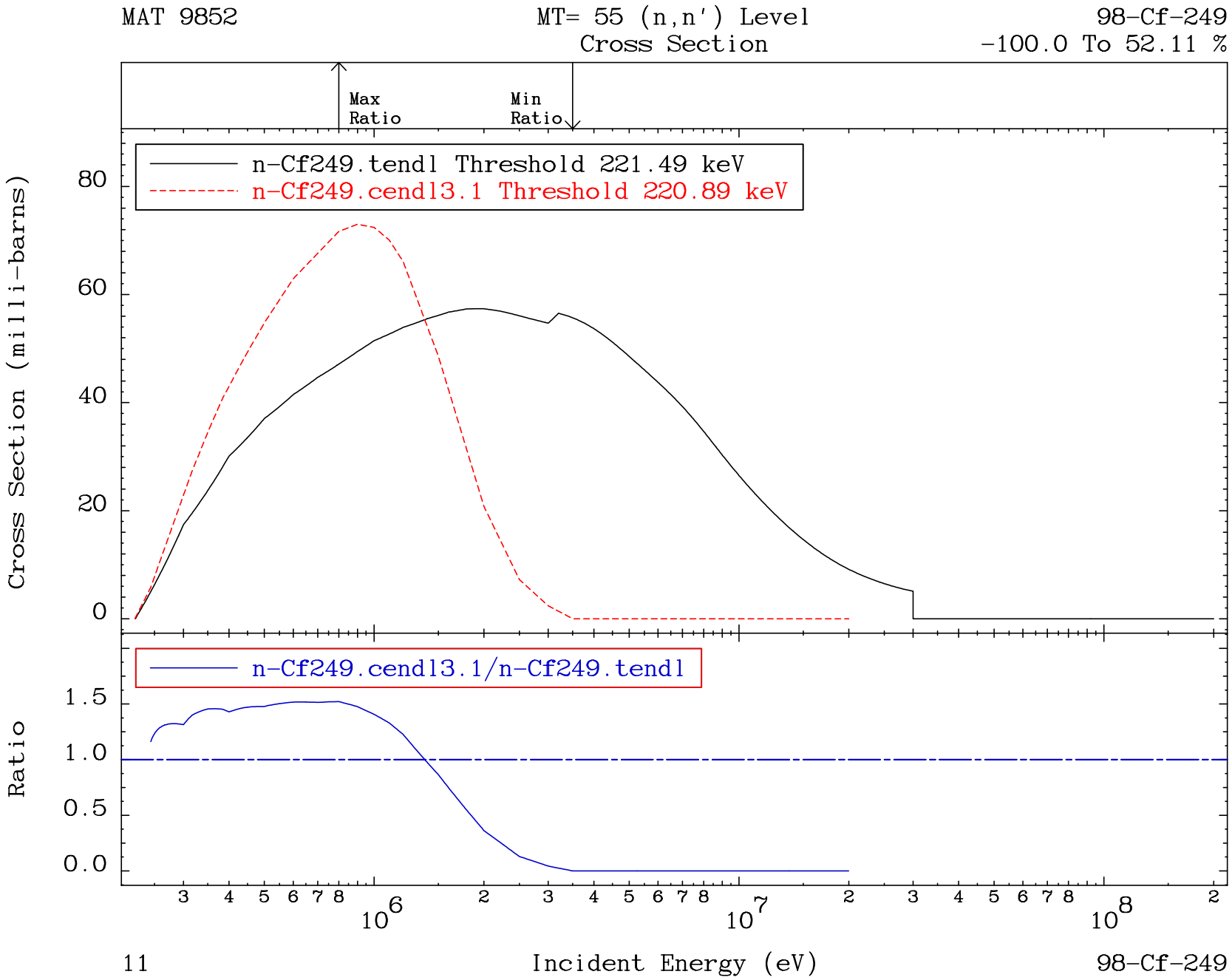

MAT 9852
Fission
Cross Section
98-Cf-249
-97.03 To 3072. %
Min Ratio
Max Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
6
98-Cf-249

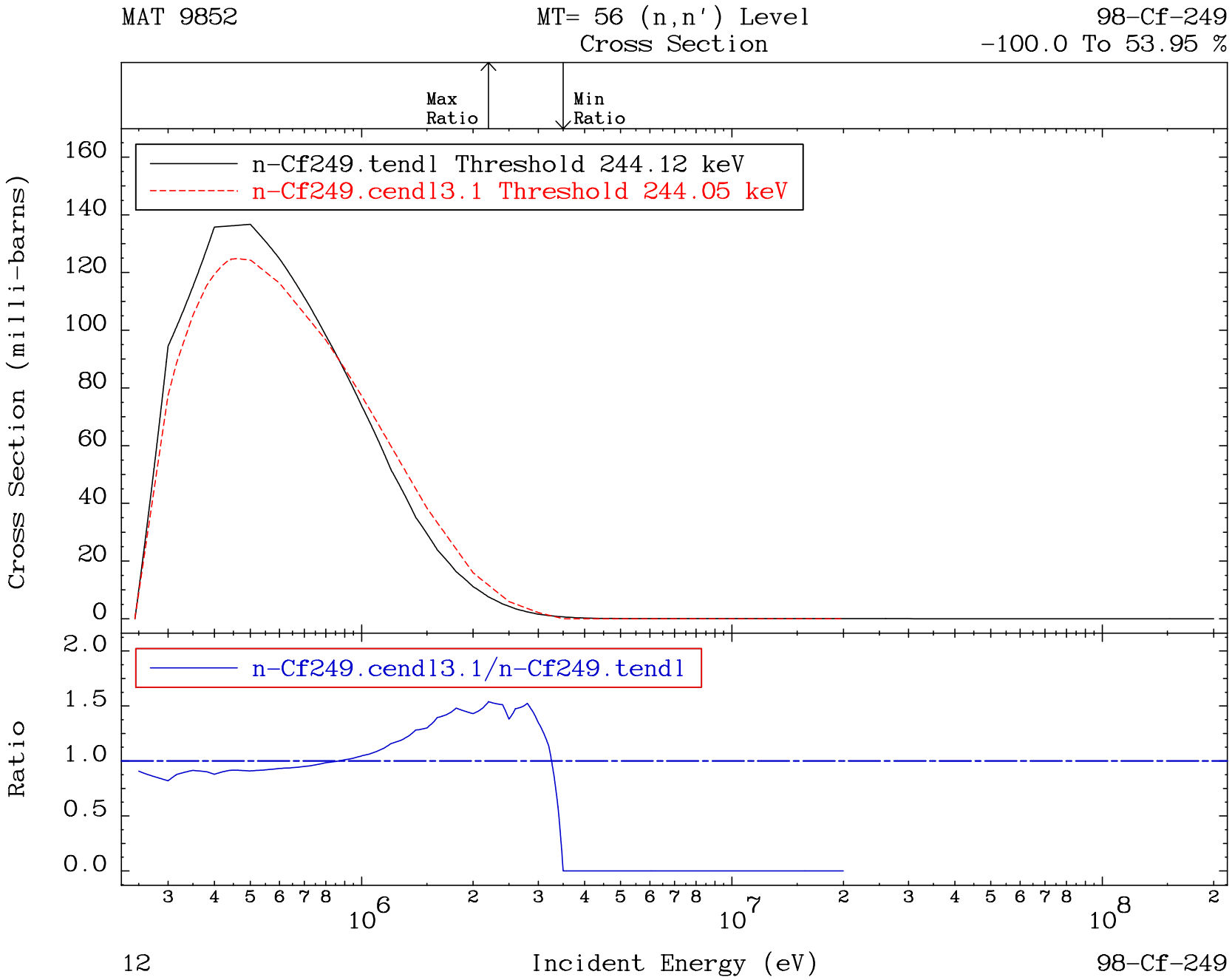

MAT 9852
MT= 51 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 32.27 %
Max
Ratio
Min
Ratio
n-Cf249.tendl Threshold 62.733 keV
n-Cf249.cendl3.1 Threshold 62.743 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
1.2
0.6
0.0
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
7
Incident Energy (eV)
98-Cf-249

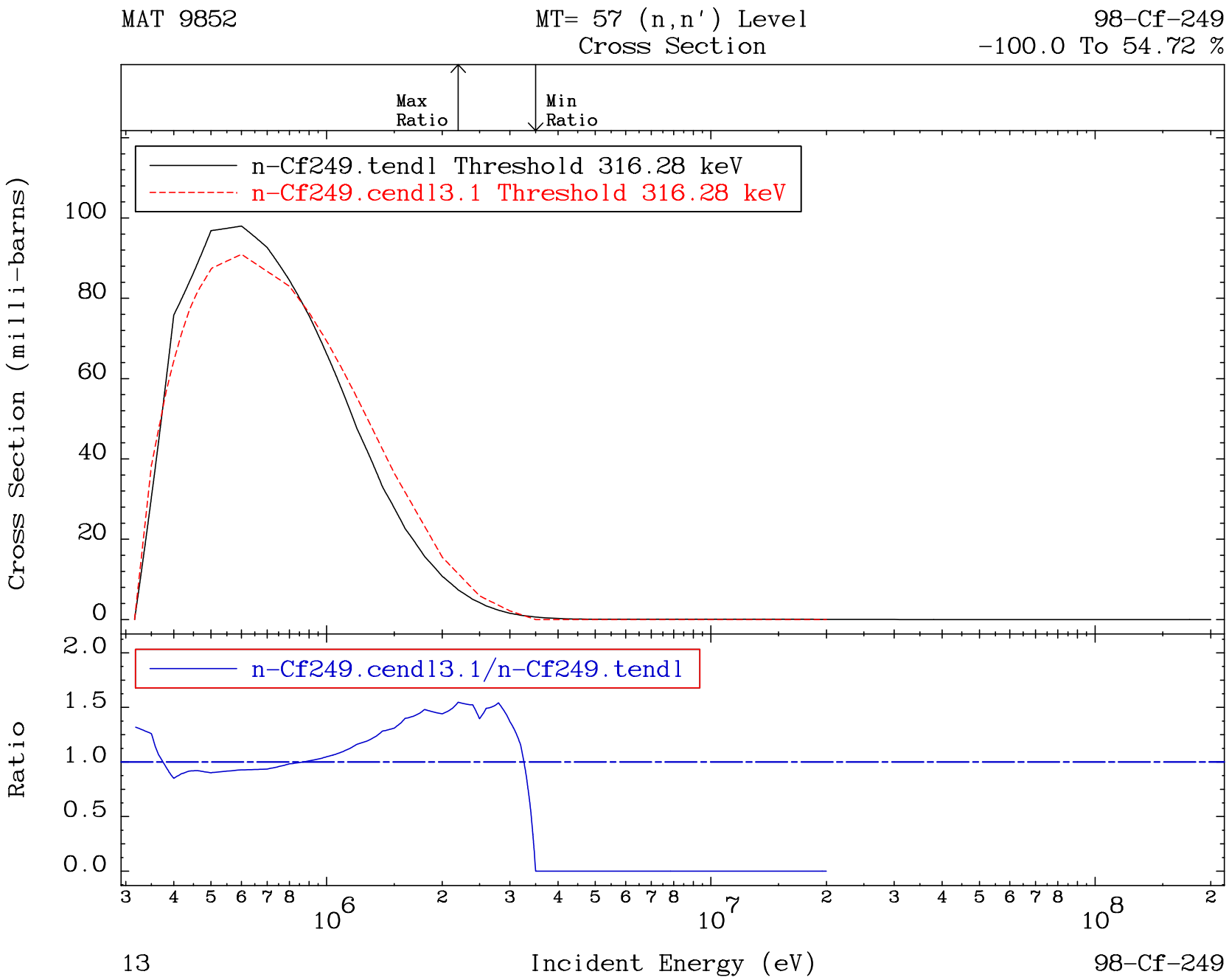

MAT 9852
MT= 52 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 45.38 %
Max
Ratio
Min
Ratio
n-Cf249.tendl Threshold 136.75 keV
n-Cf249.cendl3.1 Threshold 136.75 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
1.5
1.0
0.5
0.0
2
3
4
5
6
8
10^6
10^7
10^8
8
Incident Energy (eV)
98-Cf-249

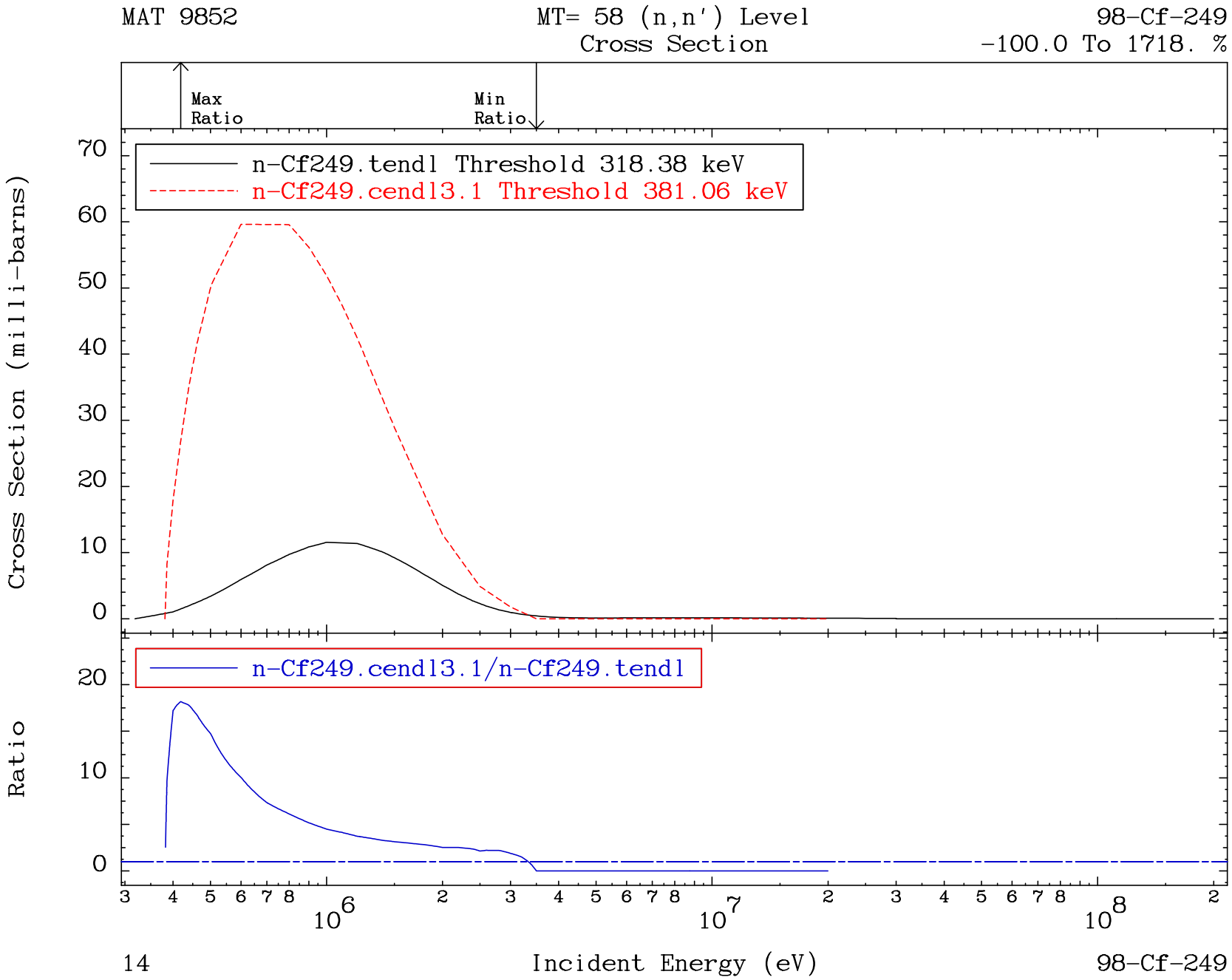

MAT 9852
MT= 53 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 77.96 %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 145.57 keV
n-Cf249.cendl3.1 Threshold 145.55 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
2.0
1.0
0.0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
9
Incident Energy (eV)
98-Cf-249

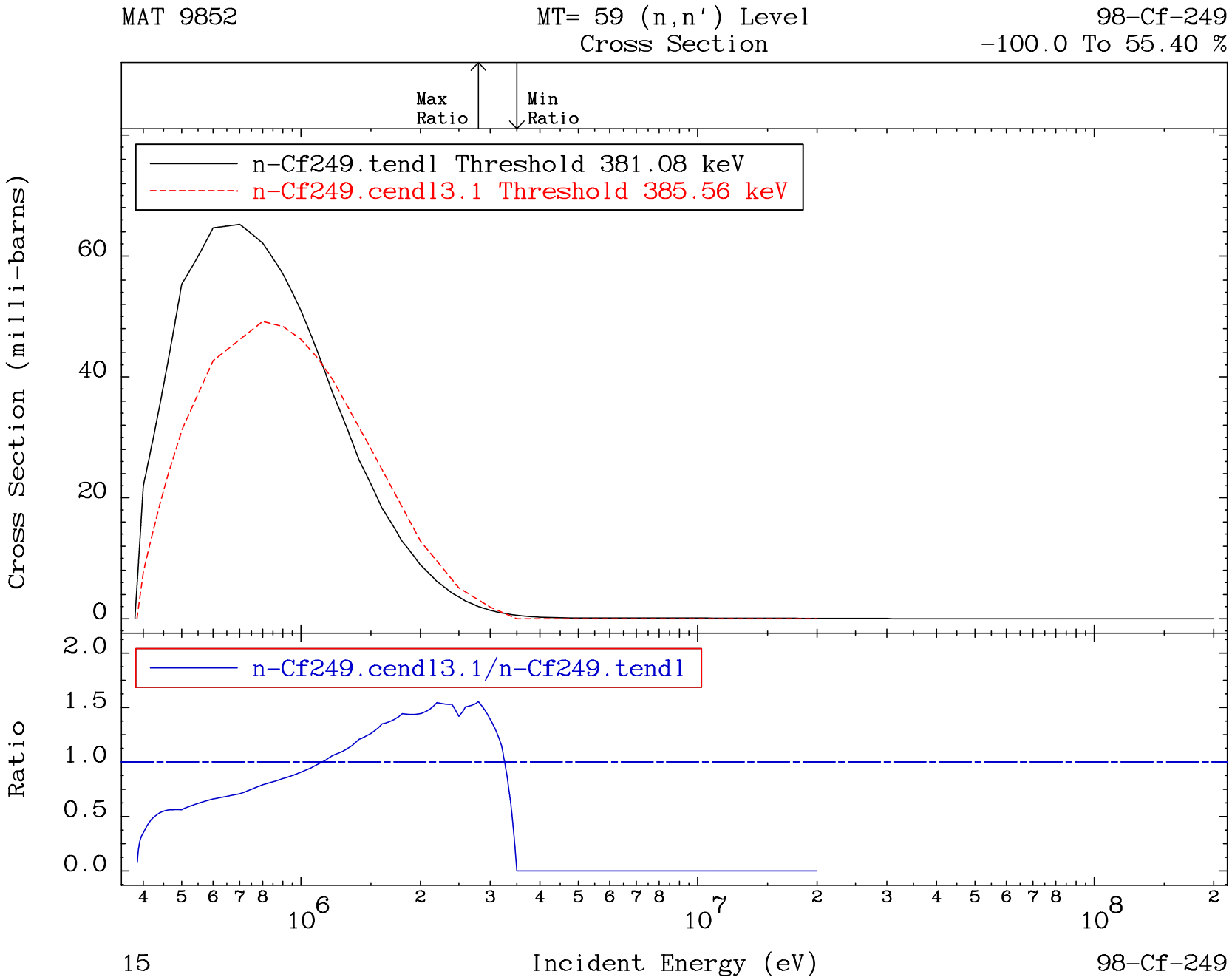

MAT 9852
MT= 54 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 48.44 %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 188.73 keV
n-Cf249.cendl3.1 Threshold 188.70 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
1.5
1.0
0.5
0.0
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
10
Incident Energy (eV)
98-Cf-249

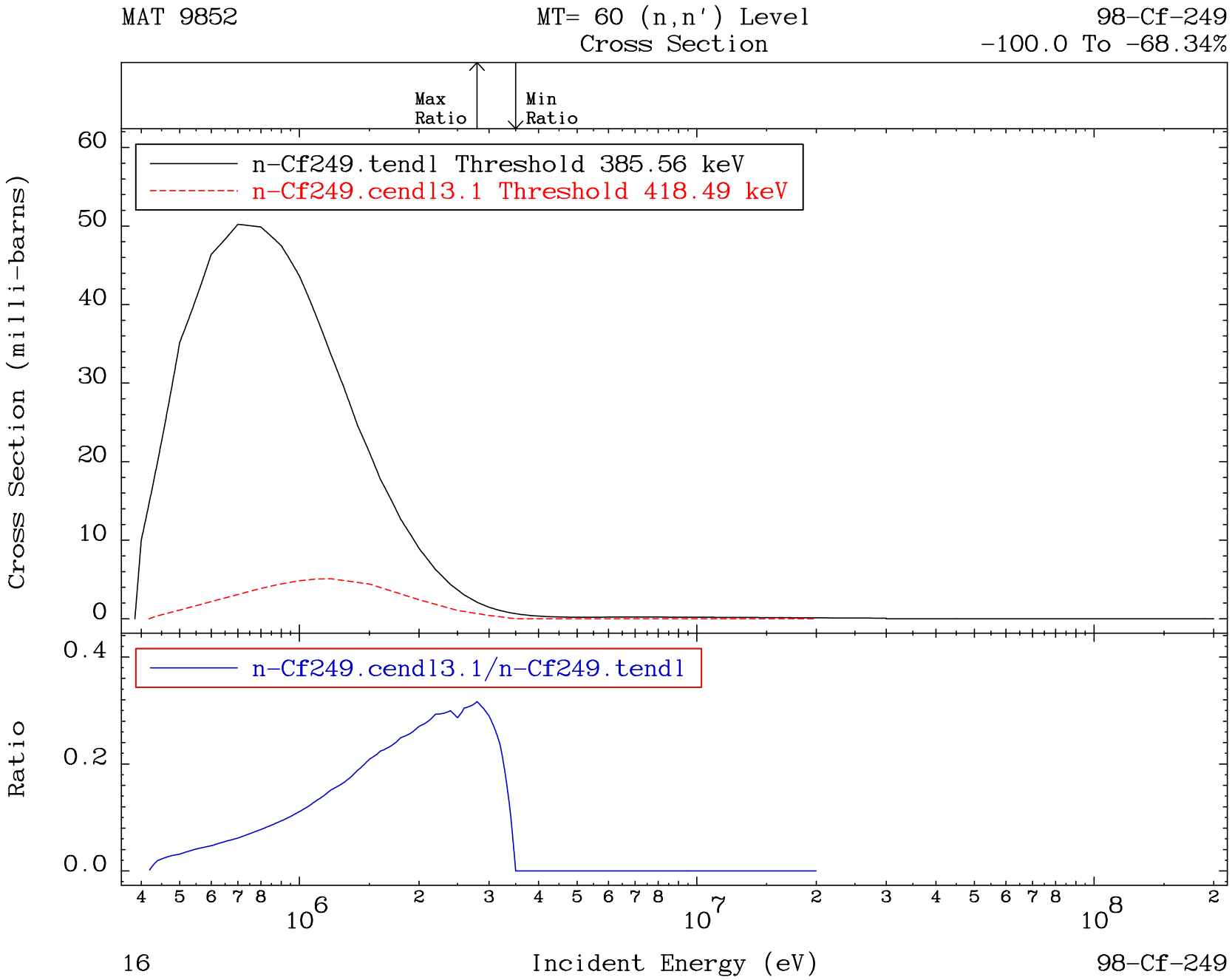

MAT 9852
MT= 55 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 52.11 %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 221.49 keV
n-Cf249.cendl3.1 Threshold 220.89 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
1.5
1.0
0.5
0.0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
98-Cf-249

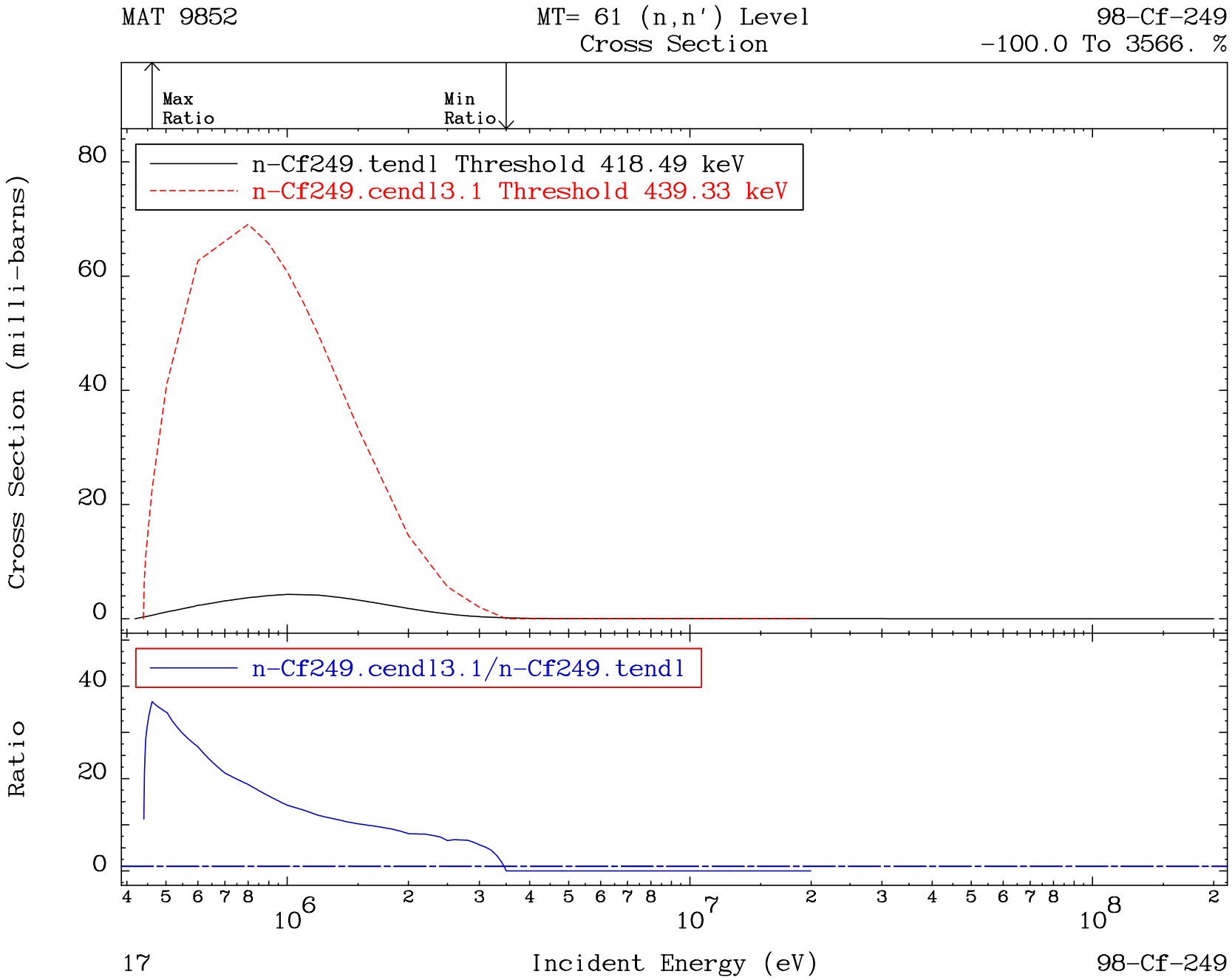

MAT 9852
MT= 56 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 53.95 %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 244.12 keV
n-Cf249.cendl3.1 Threshold 244.05 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
2.0
1.5
1.0
0.5
0.0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
12
Incident Energy (eV)
98-Cf-249

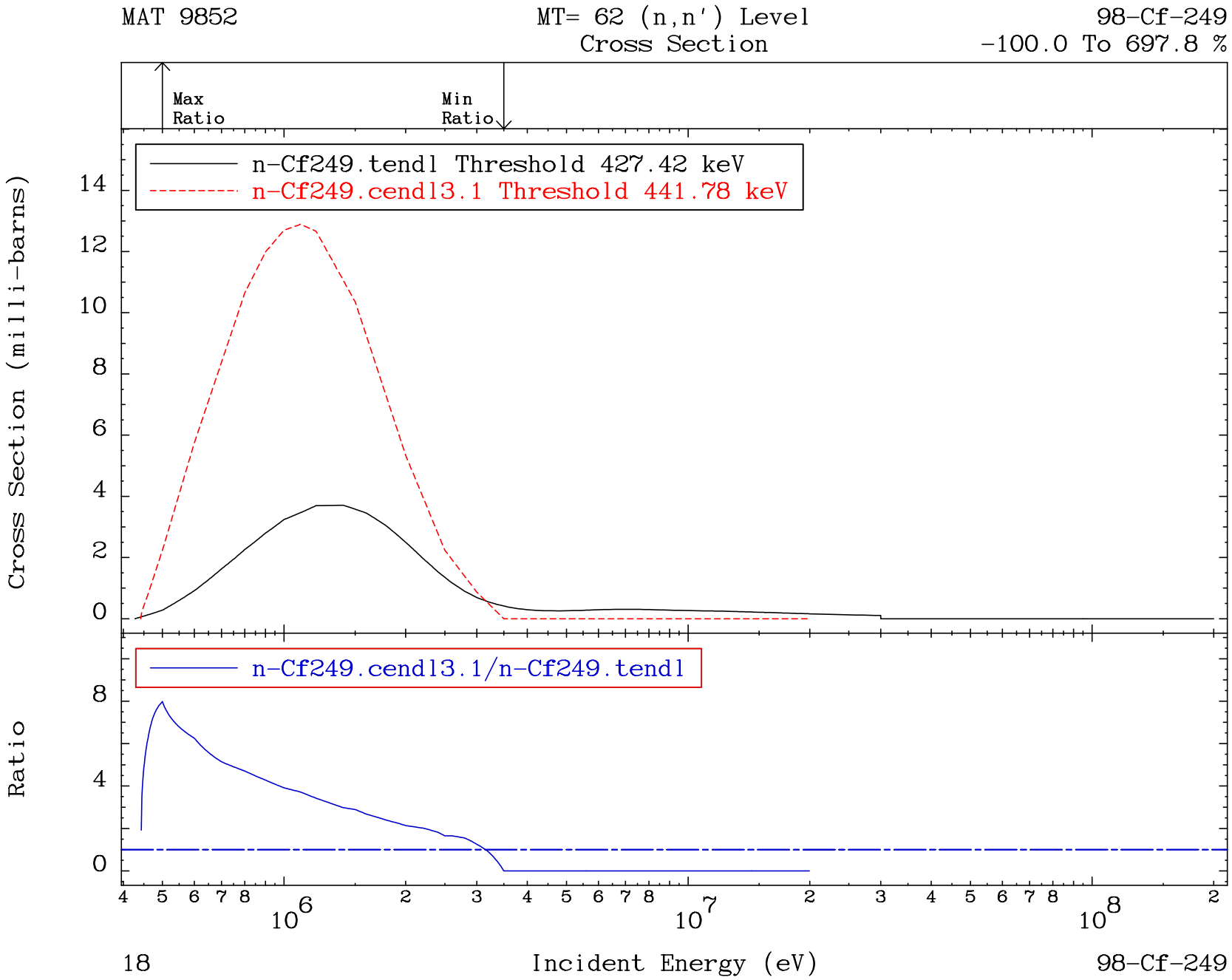

MAT 9852
MT= 57 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 54.72 %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 316.28 keV
n-Cf249.cendl3.1 Threshold 316.28 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
2.0
1.5
1.0
0.5
0.0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
98-Cf-249

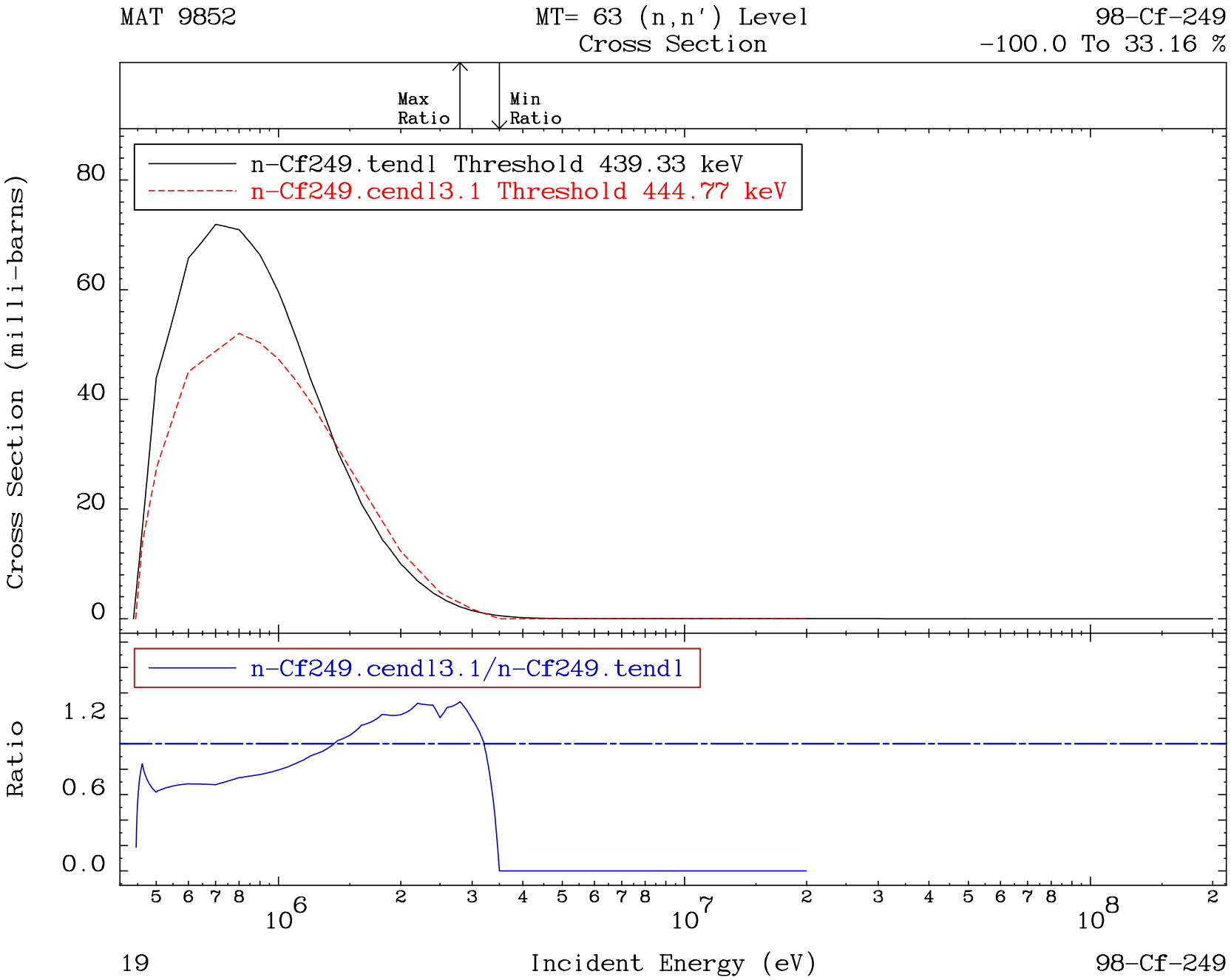

MAT 9852
MT= 58 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 1718. %
Max
Ratio
Min
Ratio
n-Cf249.tendl Threshold 318.38 keV
n-Cf249.cendl3.1 Threshold 381.06 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
20
10
0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
98-Cf-249

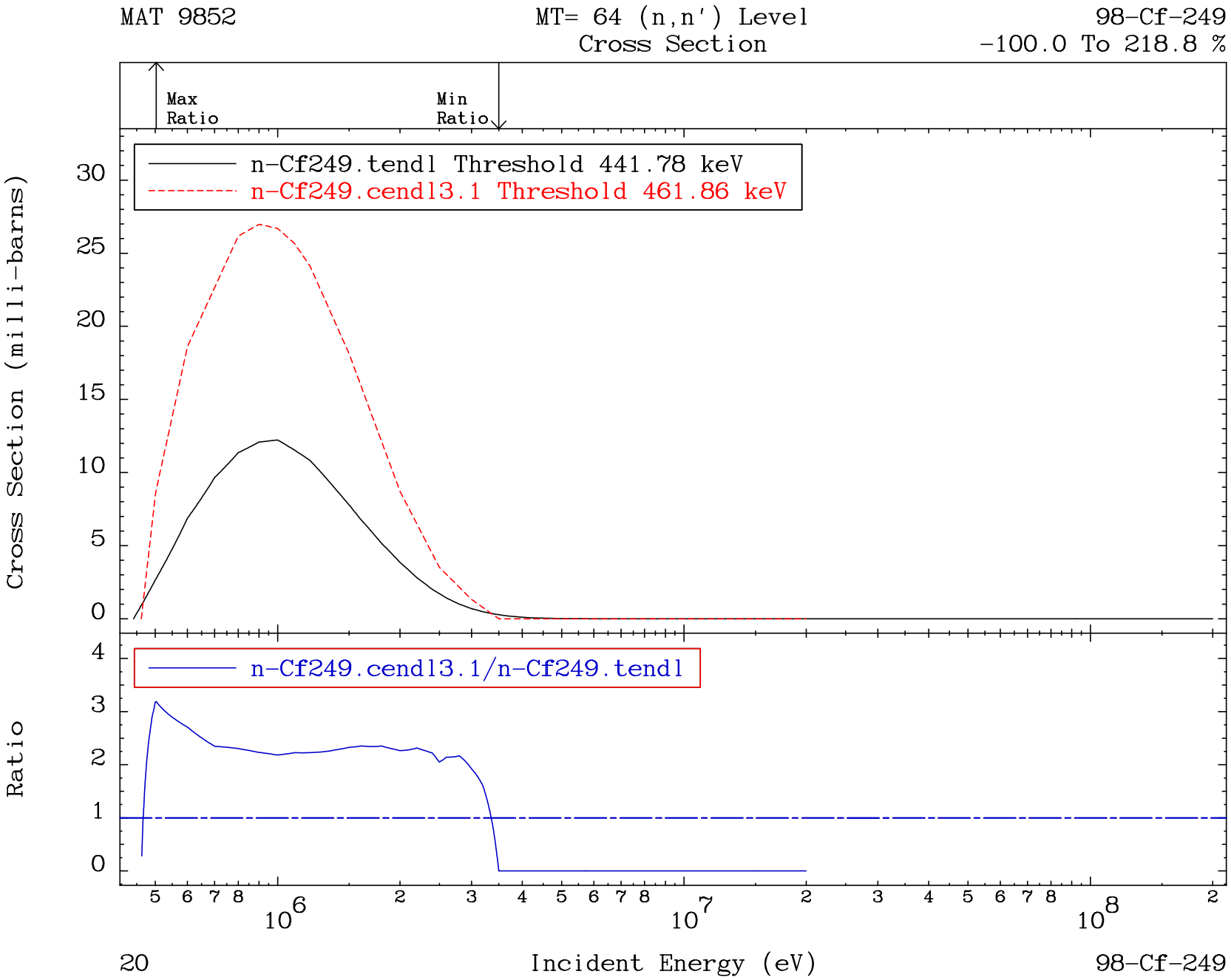

MAT 9852
MT= 59 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 55.40 %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 381.08 keV
n-Cf249.cendl3.1 Threshold 385.56 keV
Cross Section (milli-barns)
60
40
20
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
2.0
1.5
1.0
0.5
0.0
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
98-Cf-249

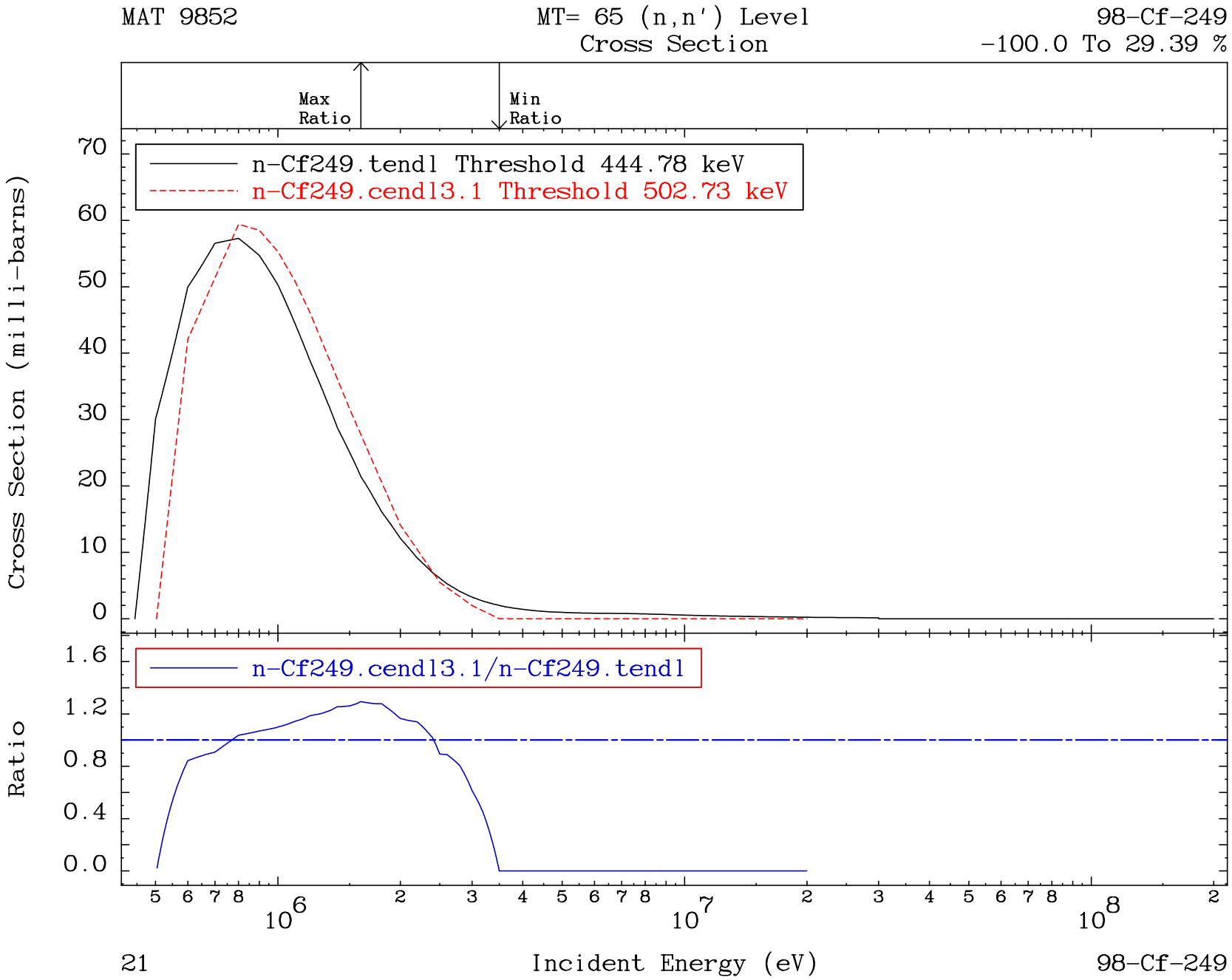

MAT 9852
MT= 60 (n,n') Level
Cross Section
98-Cf-249
-100.0 To -68.34%
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 385.56 keV
n-Cf249.cendl3.1 Threshold 418.49 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
0.4
0.2
0.0
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
98-Cf-249

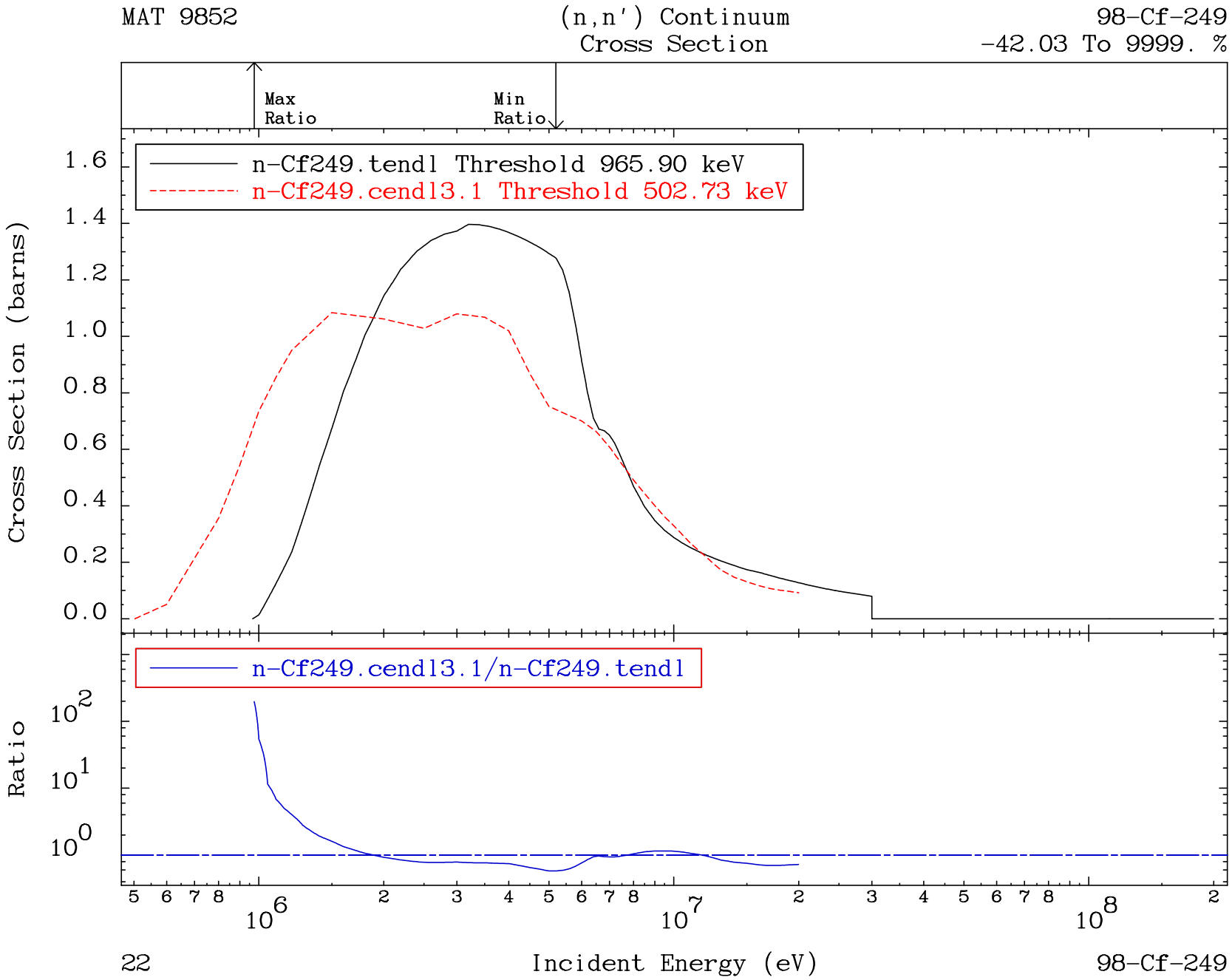

MAT 9852
MT= 61 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 3566. %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 418.49 keV
n-Cf249.cendl3.1 Threshold 439.33 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
40
20
0
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
98-Cf-249

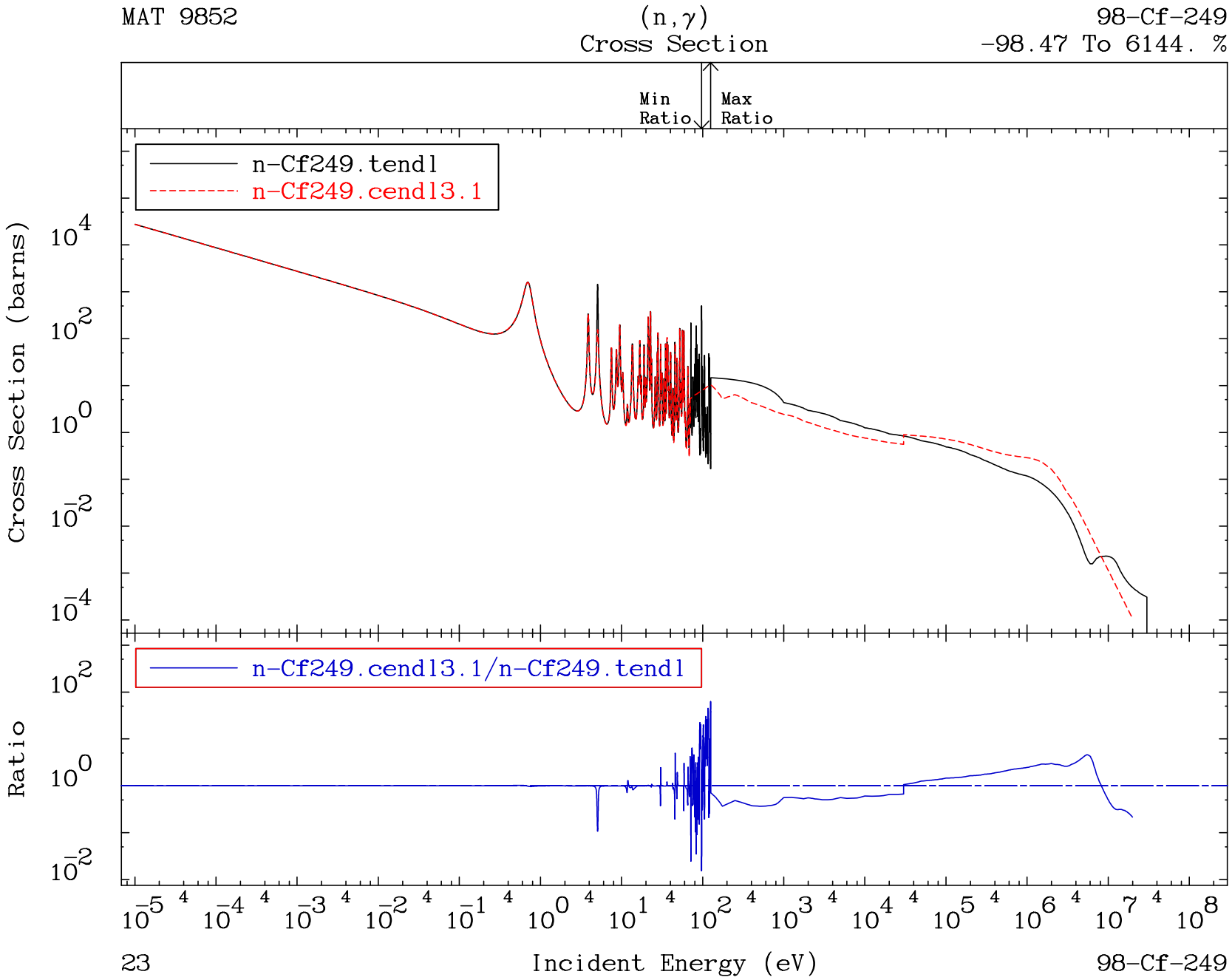

MAT 9852
MT= 62 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 697.8 %
Max
Ratio
Min
Ratio
n-Cf249.tendl Threshold 427.42 keV
n-Cf249.cendl3.1 Threshold 441.78 keV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
8
4
0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
98-Cf-249

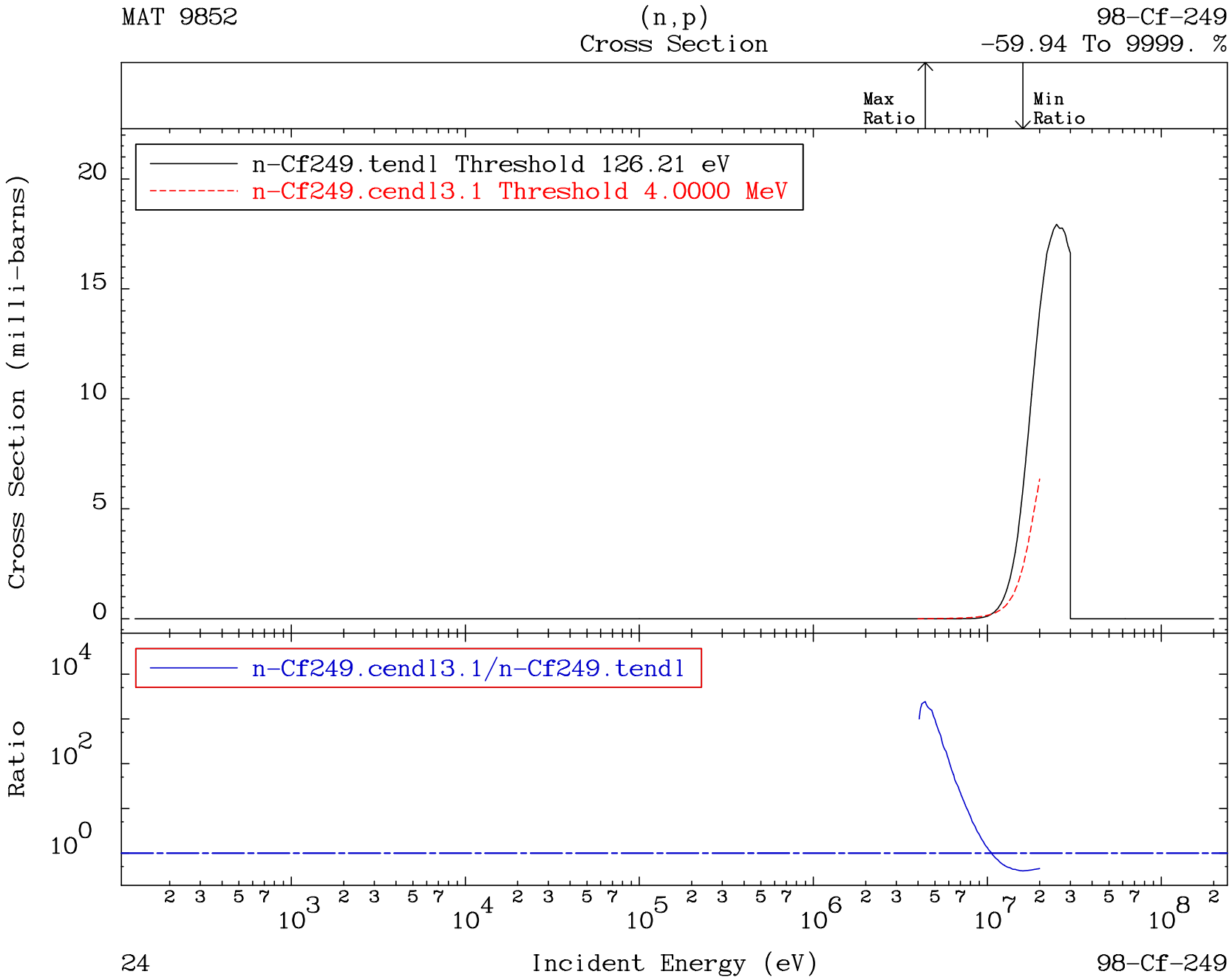

MAT 9852
MT= 63 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 33.16 %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 439.33 keV
n-Cf249.cendl3.1 Threshold 444.77 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
1.2
0.6
0.0
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
98-Cf-249

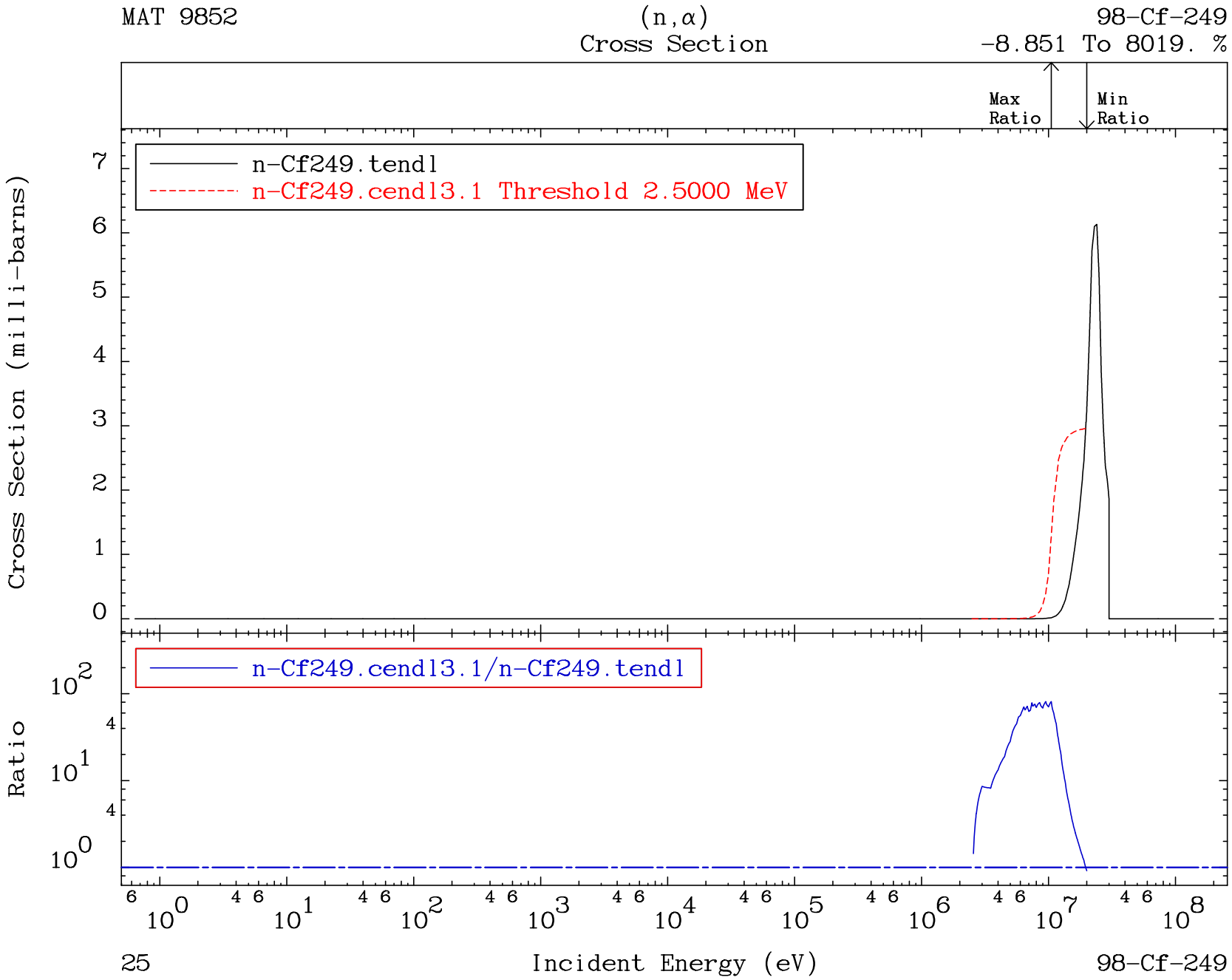

MAT 9852
MT= 64 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 218.8 %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 441.78 keV
n-Cf249.cendl3.1 Threshold 461.86 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
4
3
2
1
0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
98-Cf-249

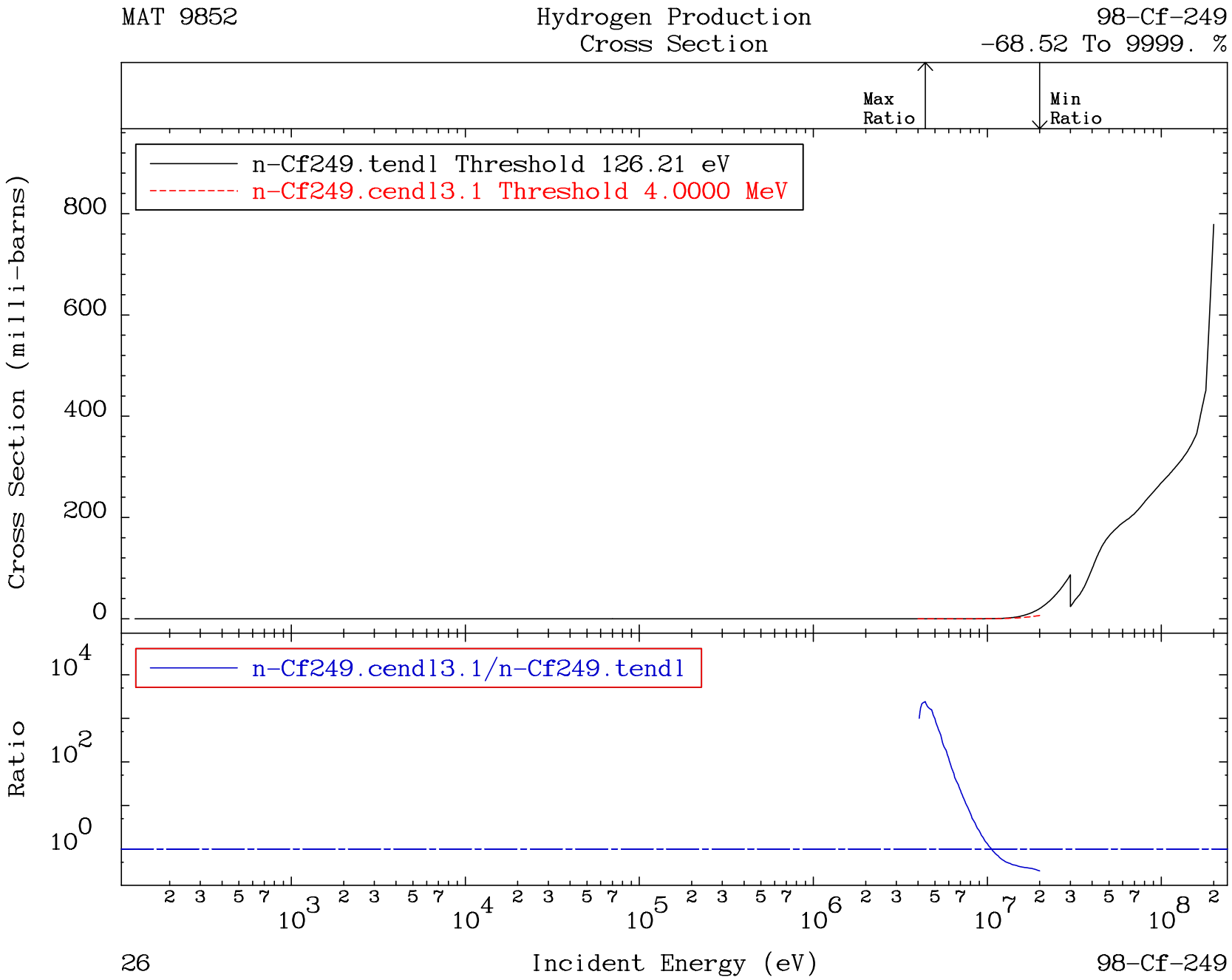

MAT 9852
MT= 65 (n,n') Level
Cross Section
98-Cf-249
-100.0 To 29.39 %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 444.78 keV
n-Cf249.cendl3.1 Threshold 502.73 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
1.6
1.2
0.8
0.4
0.0
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
98-Cf-249

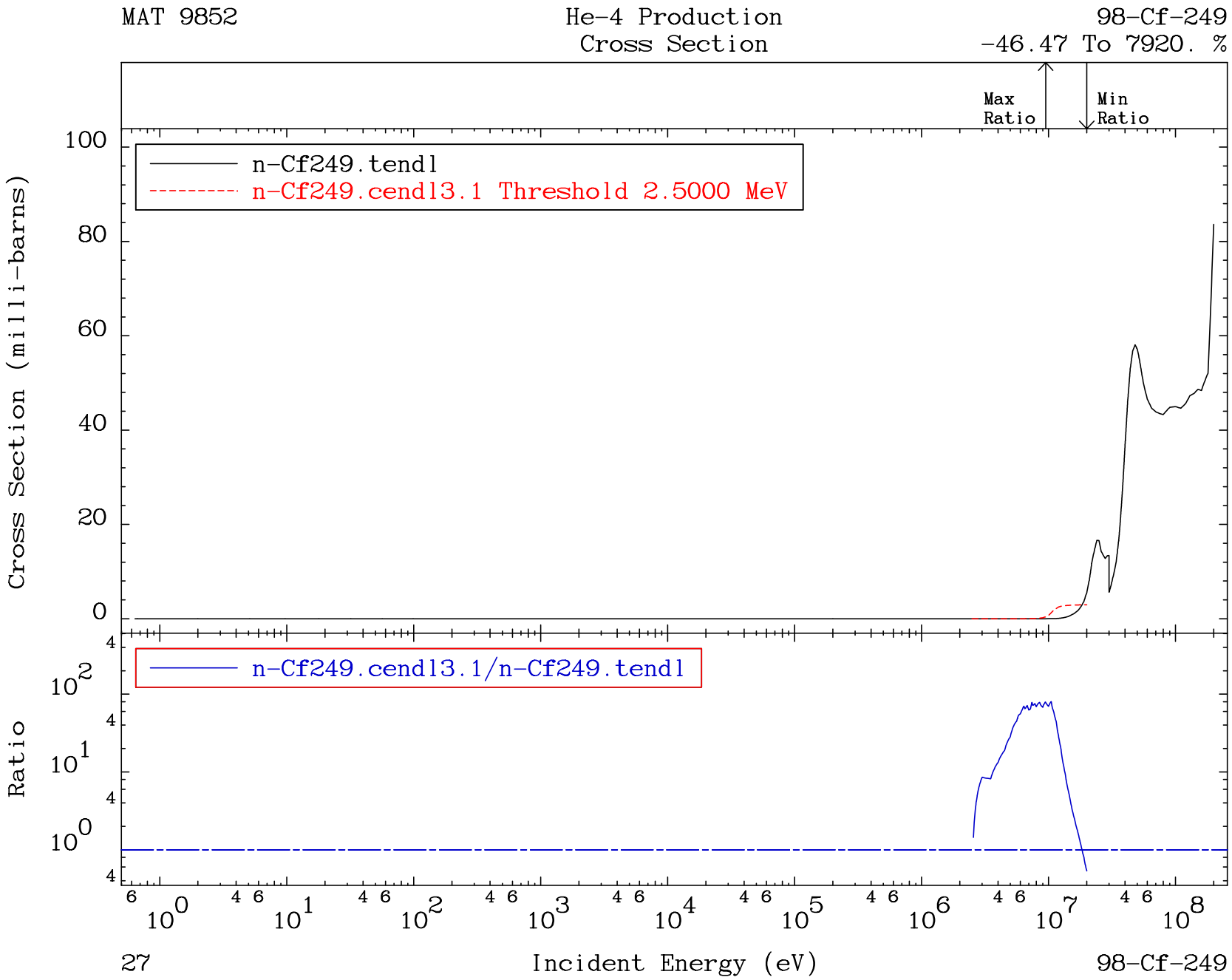

MAT 9852
(n,n') Continuum
Cross Section
98-Cf-249
-42.03 To 9999. %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 965.90 keV
n-Cf249.cendl3.1 Threshold 502.73 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
10^2
10^1
10^0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
98-Cf-249

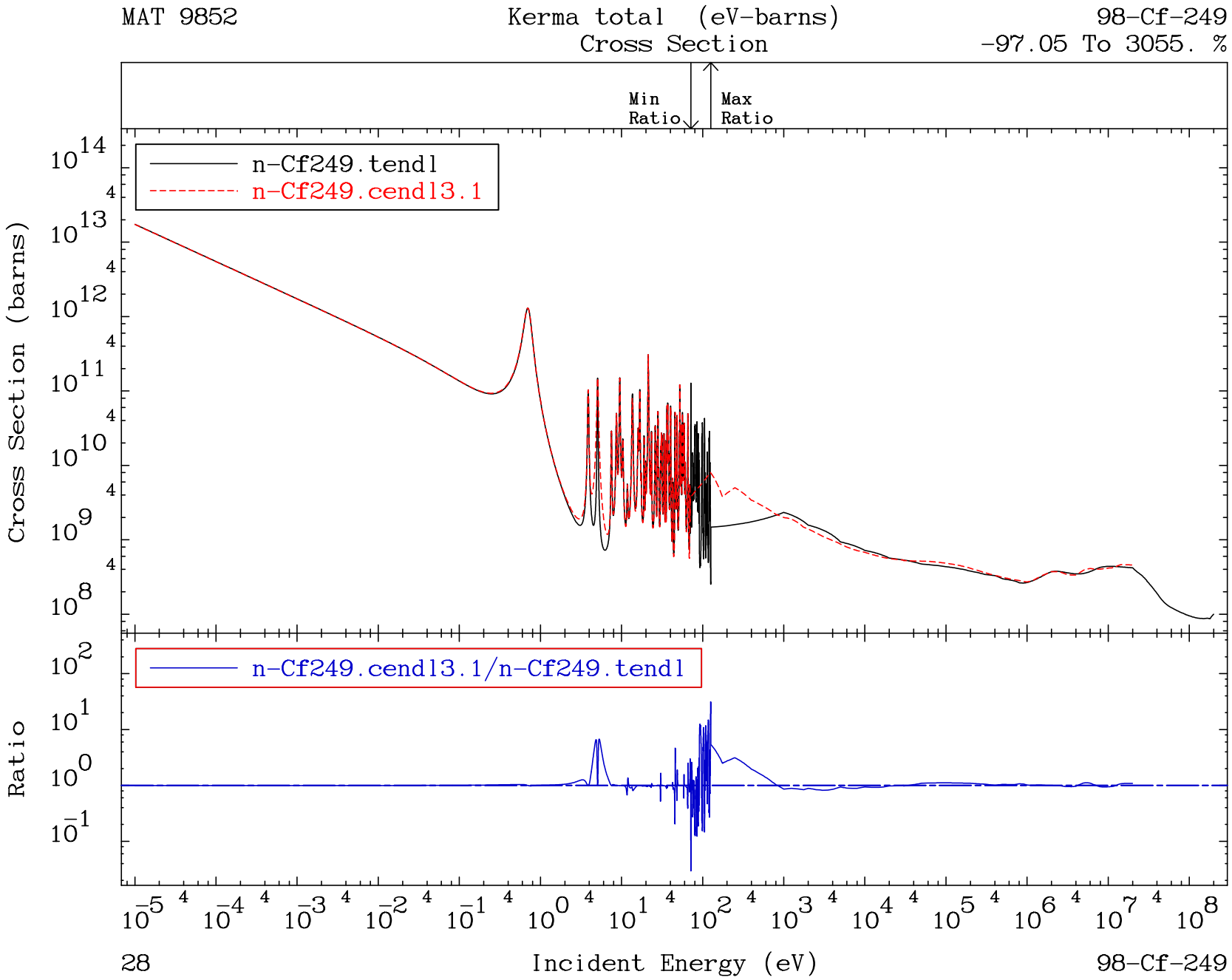

MAT 9852
(n,γ)
Cross Section
98-Cf-249
-98.47 To 6144. %
Min Ratio
Max Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
23
98-Cf-249

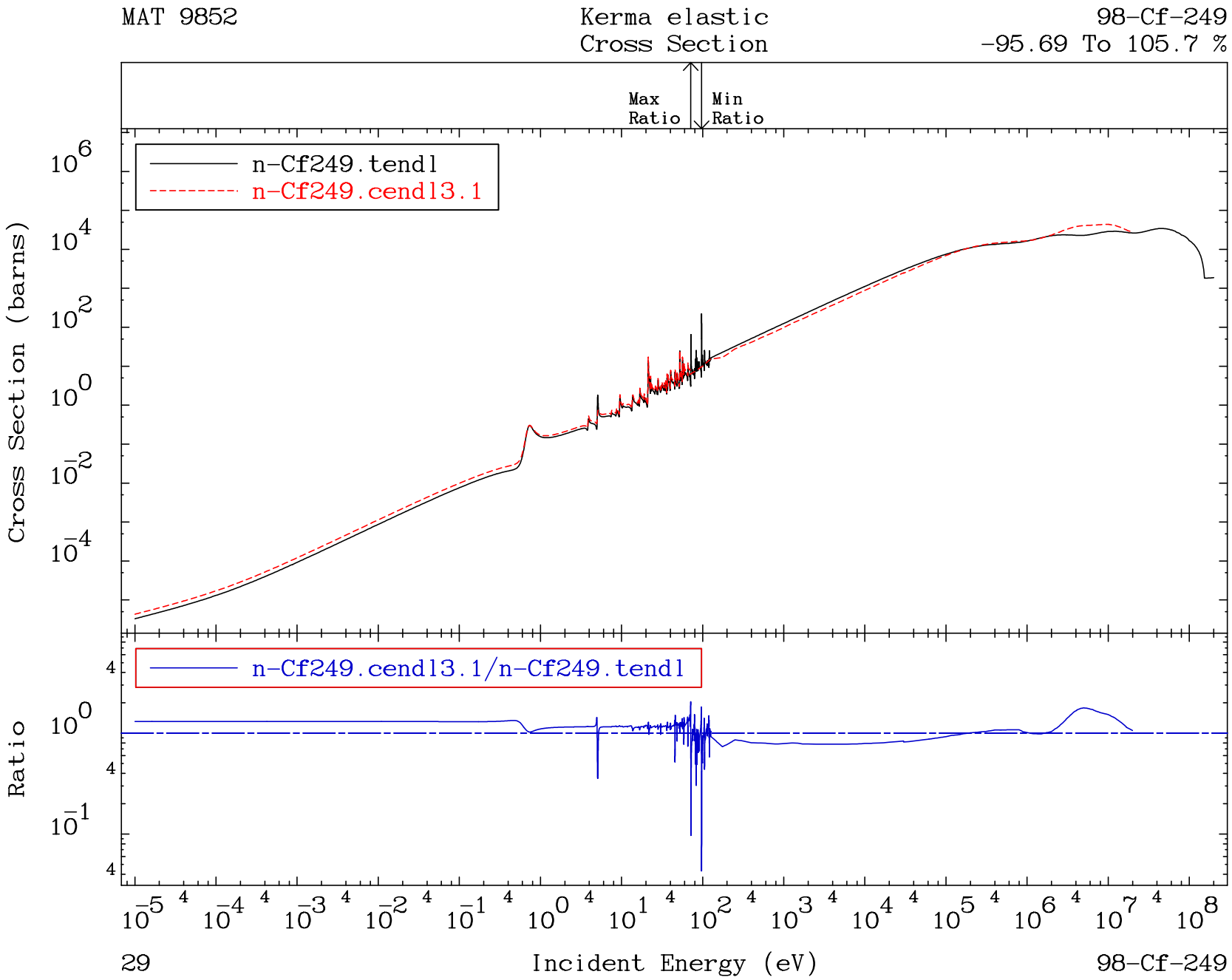

MAT 9852
(n,p)
Cross Section
98-Cf-249
-59.94 To 9999. %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 126.21 eV
n-Cf249.cendl3.1 Threshold 4.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
10^4
10^2
10^0
2 3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
24
Incident Energy (eV)
98-Cf-249

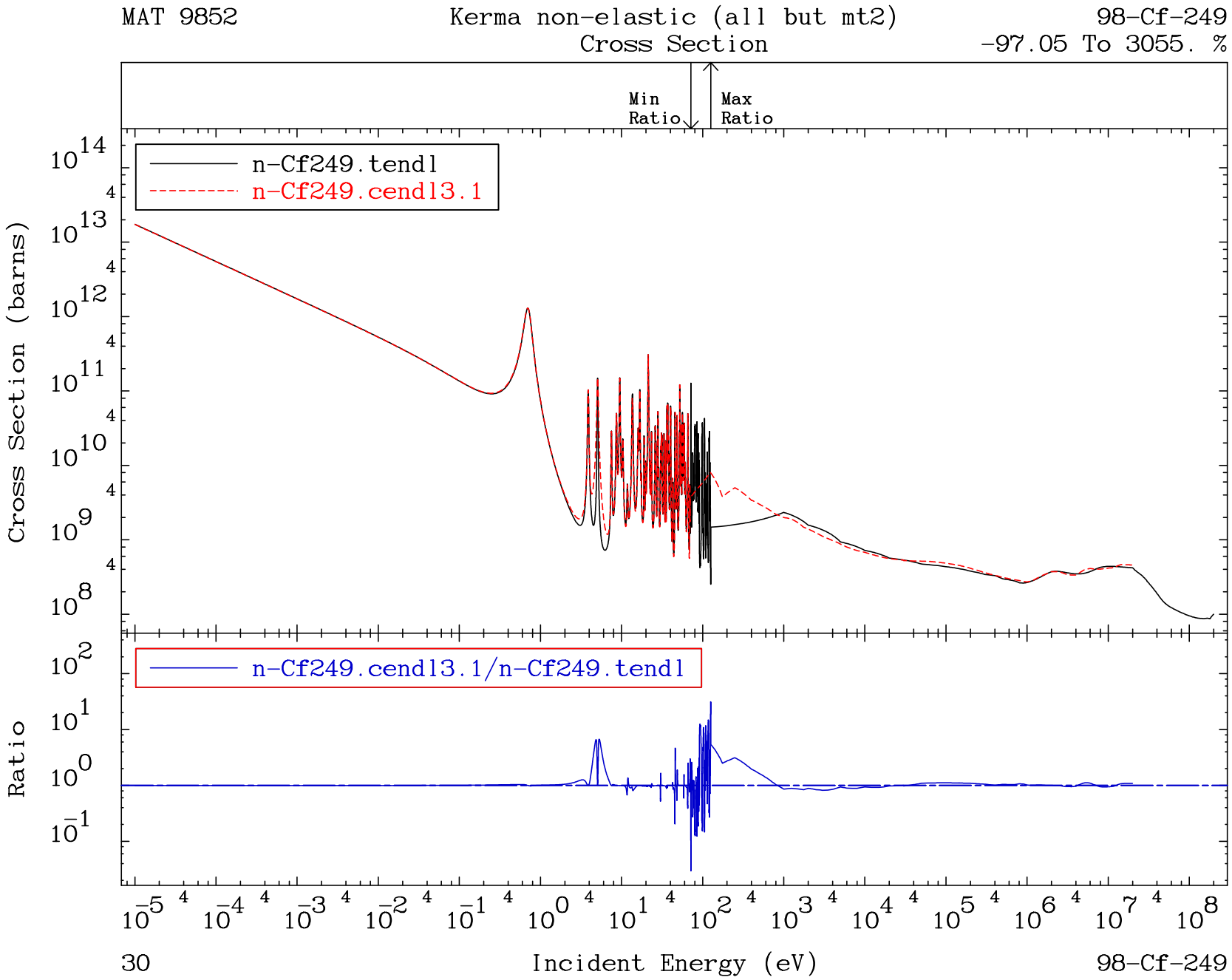

MAT 9852
(n,α)
Cross Section
98-Cf-249
-8.851 To 8019. %
Max Ratio
Min Ratio
n-Cf249.tendl
n-Cf249.cendl3.1 Threshold 2.5000 MeV
Cross Section (milli-barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
25
98-Cf-249

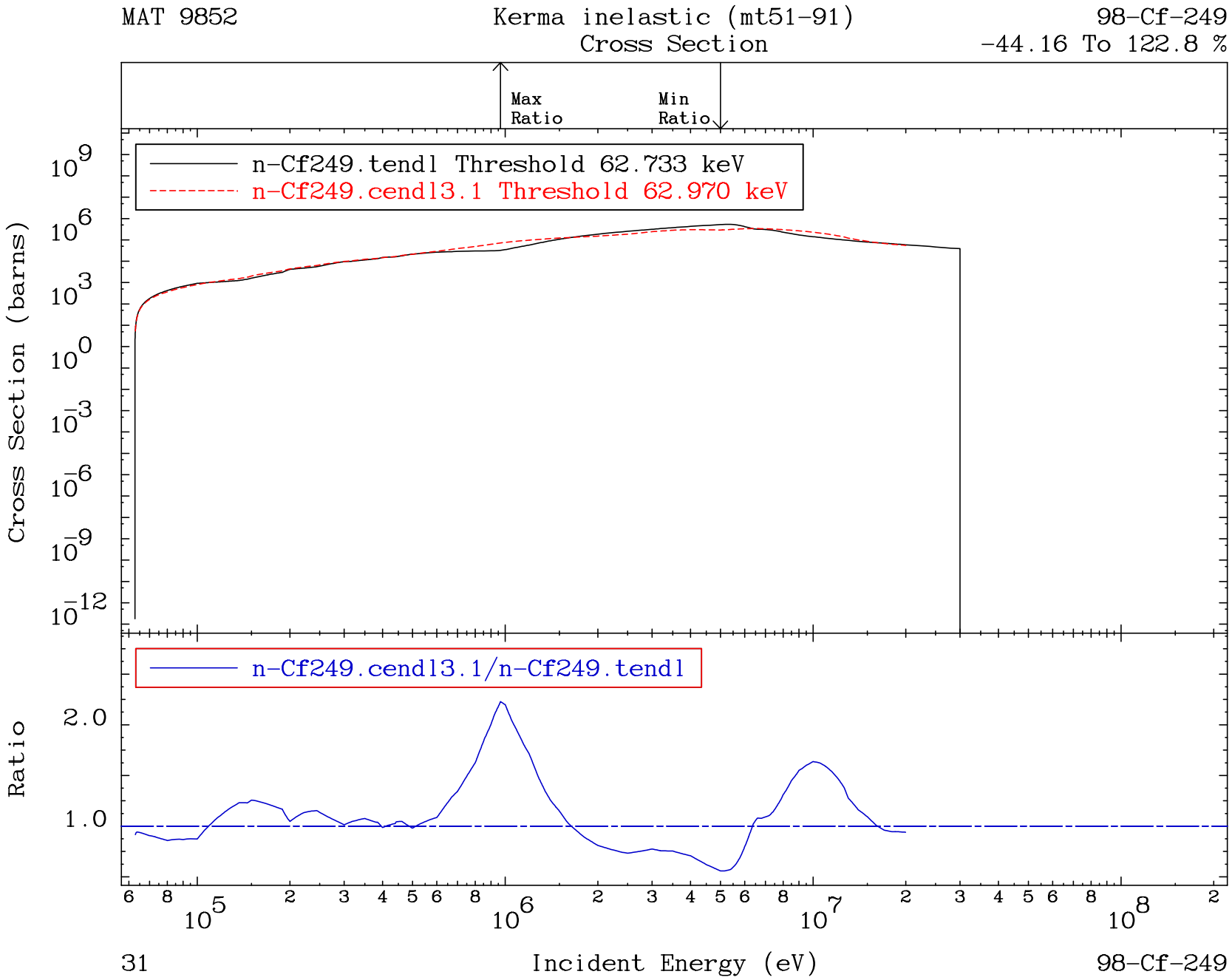

MAT 9852
Hydrogen Production
Cross Section
98-Cf-249
-68.52 To 9999. %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 126.21 eV
n-Cf249.cendl3.1 Threshold 4.0000 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
10^4
10^2
10^0
2 3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
26
Incident Energy (eV)
98-Cf-249

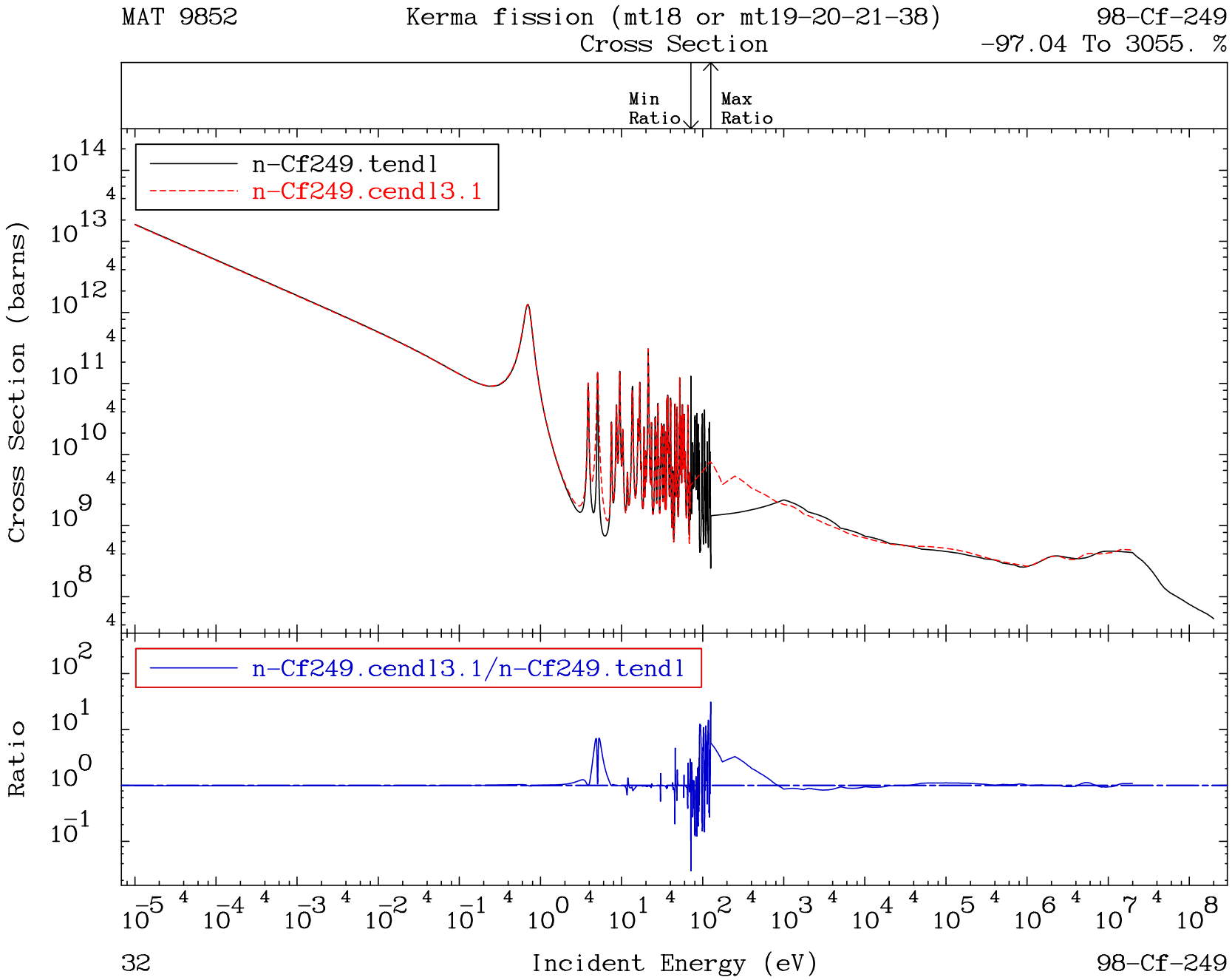

MAT 9852
He-4 Production
Cross Section
98-Cf-249
-46.47 To 7920. %
Max Ratio
Min Ratio
n-Cf249.tendl
n-Cf249.cendl3.1 Threshold 2.5000 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
10^2
10^1
10^0
10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
27
Incident Energy (eV)
98-Cf-249

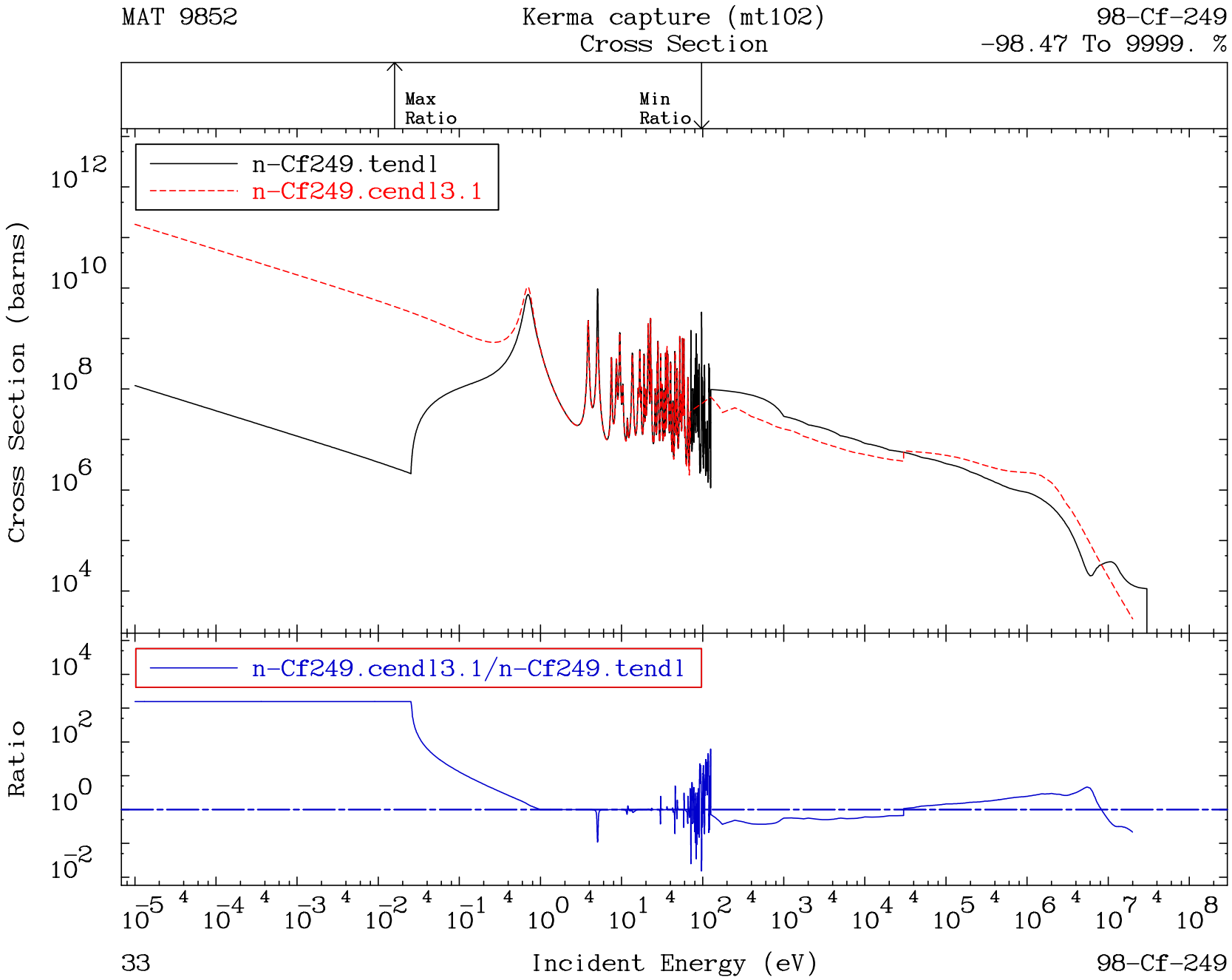

MAT 9852
Kerma total (eV-barns)
Cross Section
98-Cf-249
-97.05 To 3055. %
Min Ratio
Max Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
28
98-Cf-249

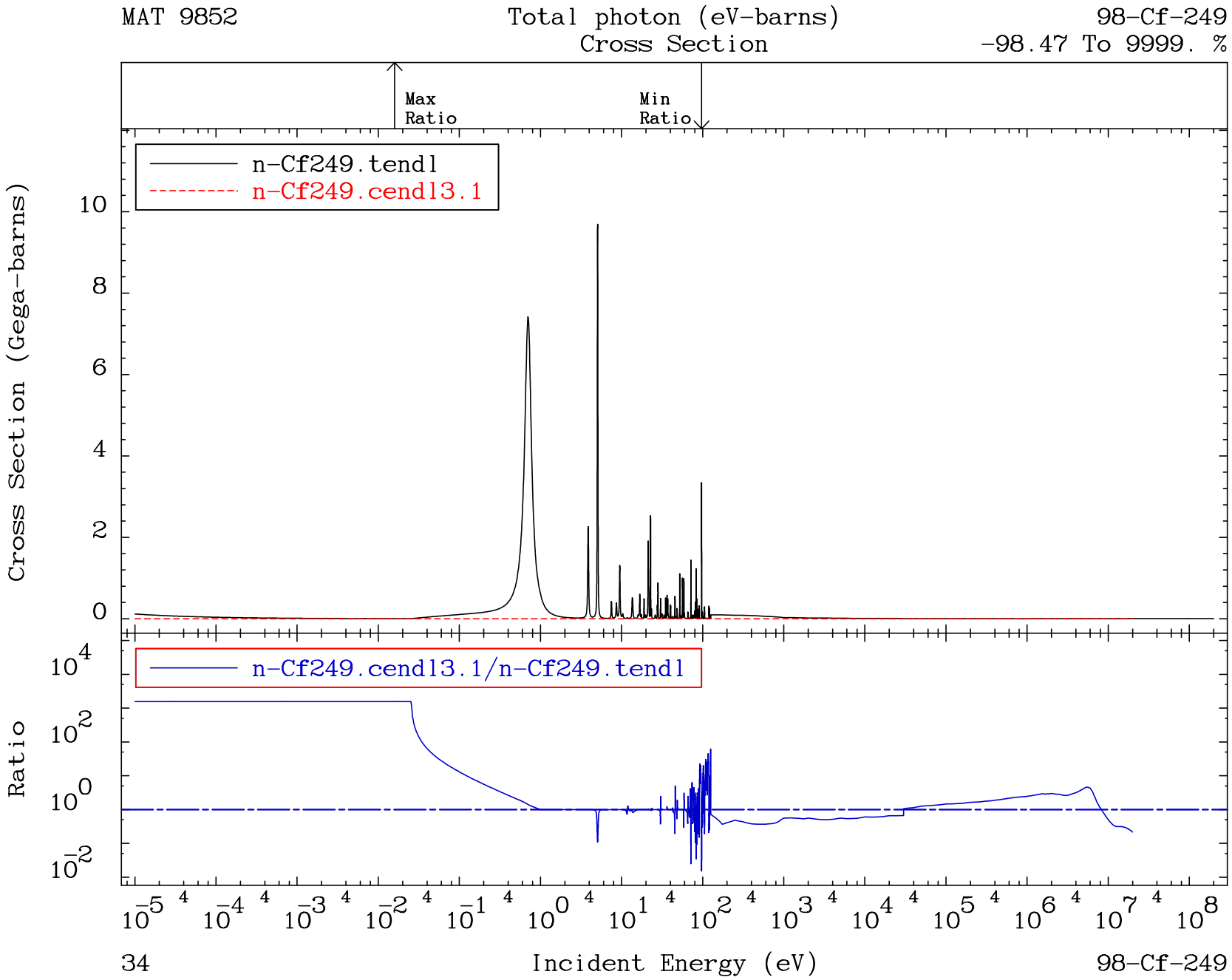

MAT 9852
Kerma elastic
Cross Section
98-Cf-249
-95.69 To 105.7 %
Max
Ratio
Min
Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
29
98-Cf-249

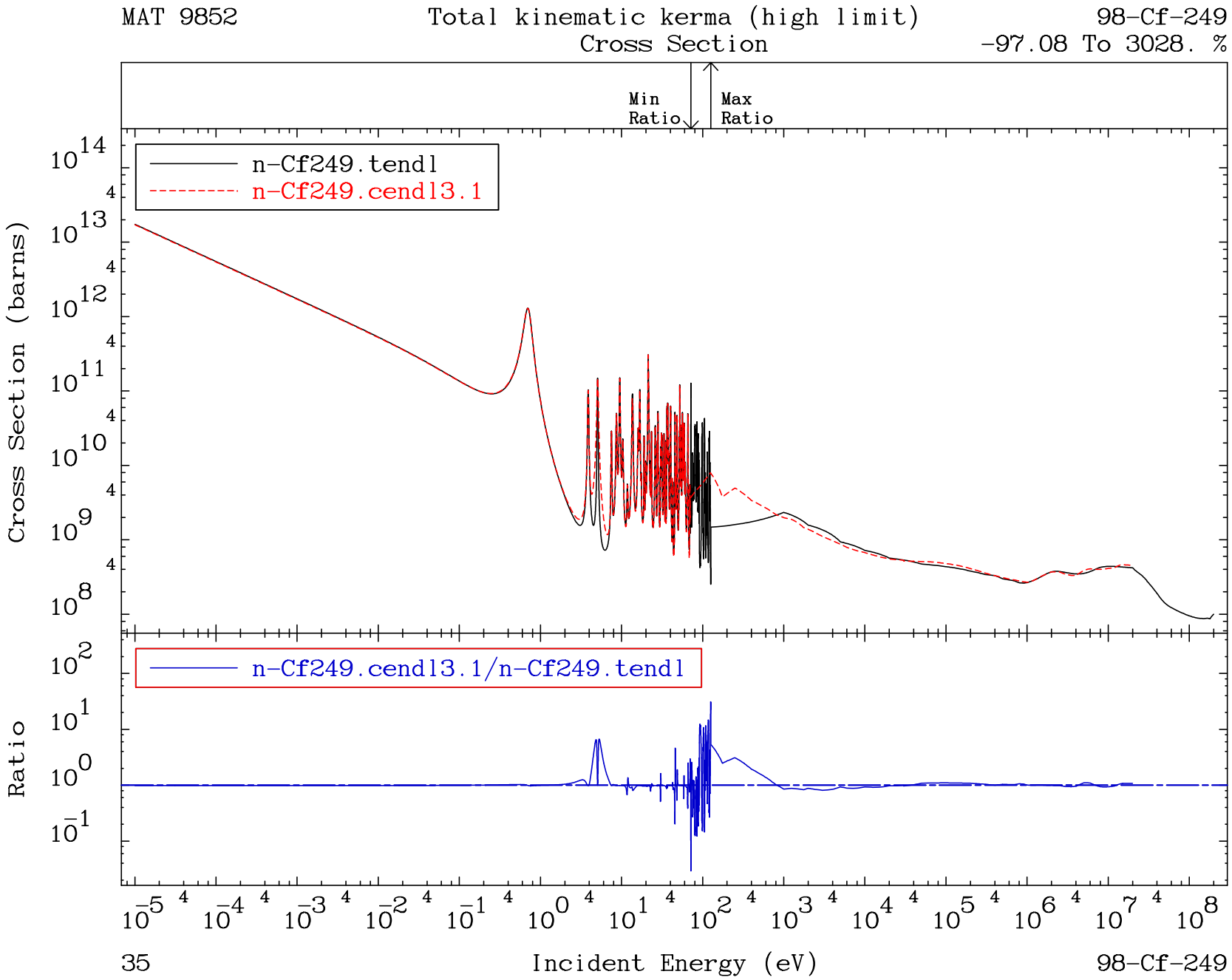

MAT 9852
Kerma non-elastic (all but mt2)
Cross Section
98-Cf-249
-97.05 To 3055. %
Min Ratio
Max Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
30
98-Cf-249

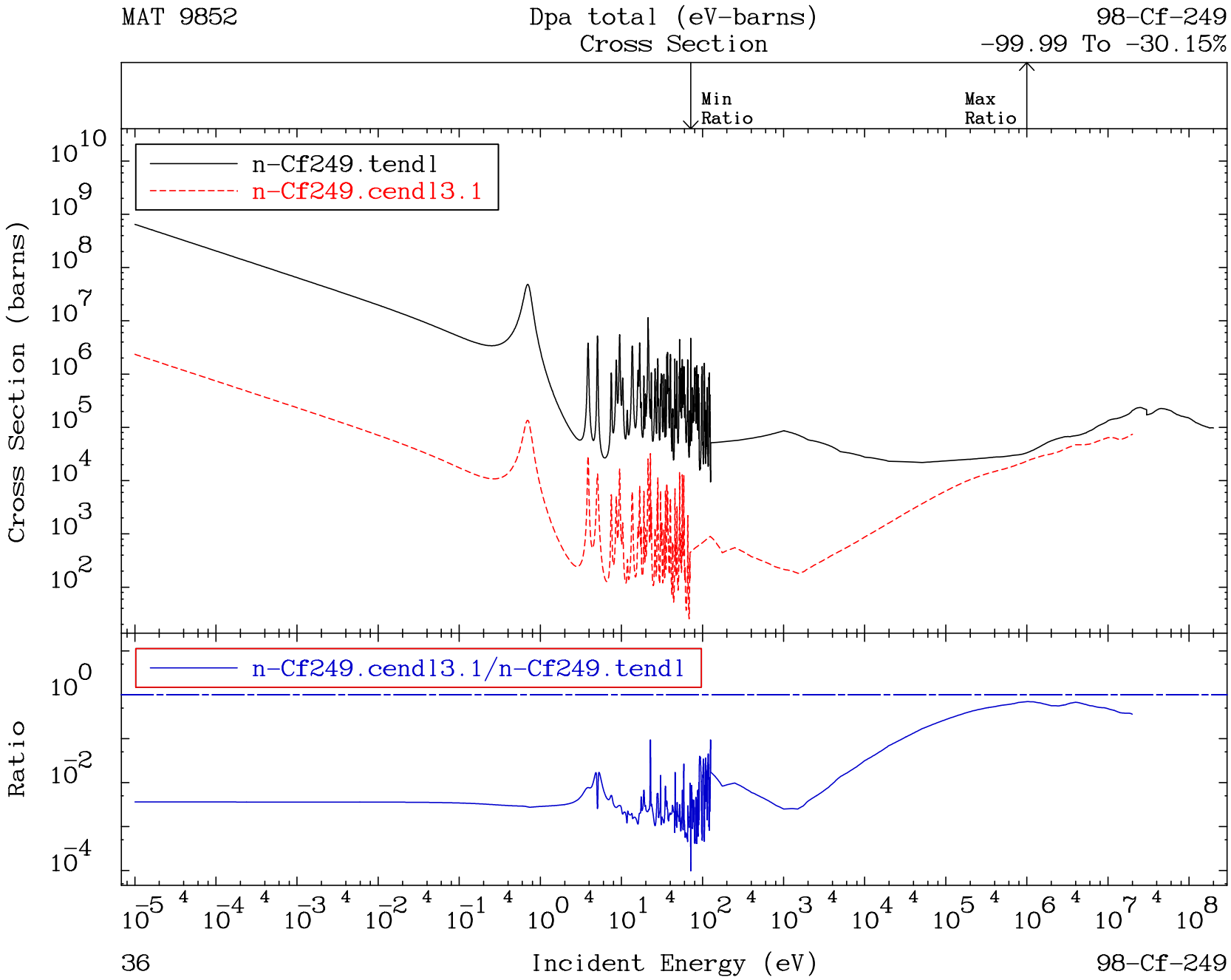

MAT 9852
Kerma inelastic (mt51-91)
Cross Section
98-Cf-249
-44.16 To 122.8 %
Max Ratio
Min Ratio
n-Cf249.tendl Threshold 62.733 keV
n-Cf249.cendl3.1 Threshold 62.970 keV
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
31
98-Cf-249

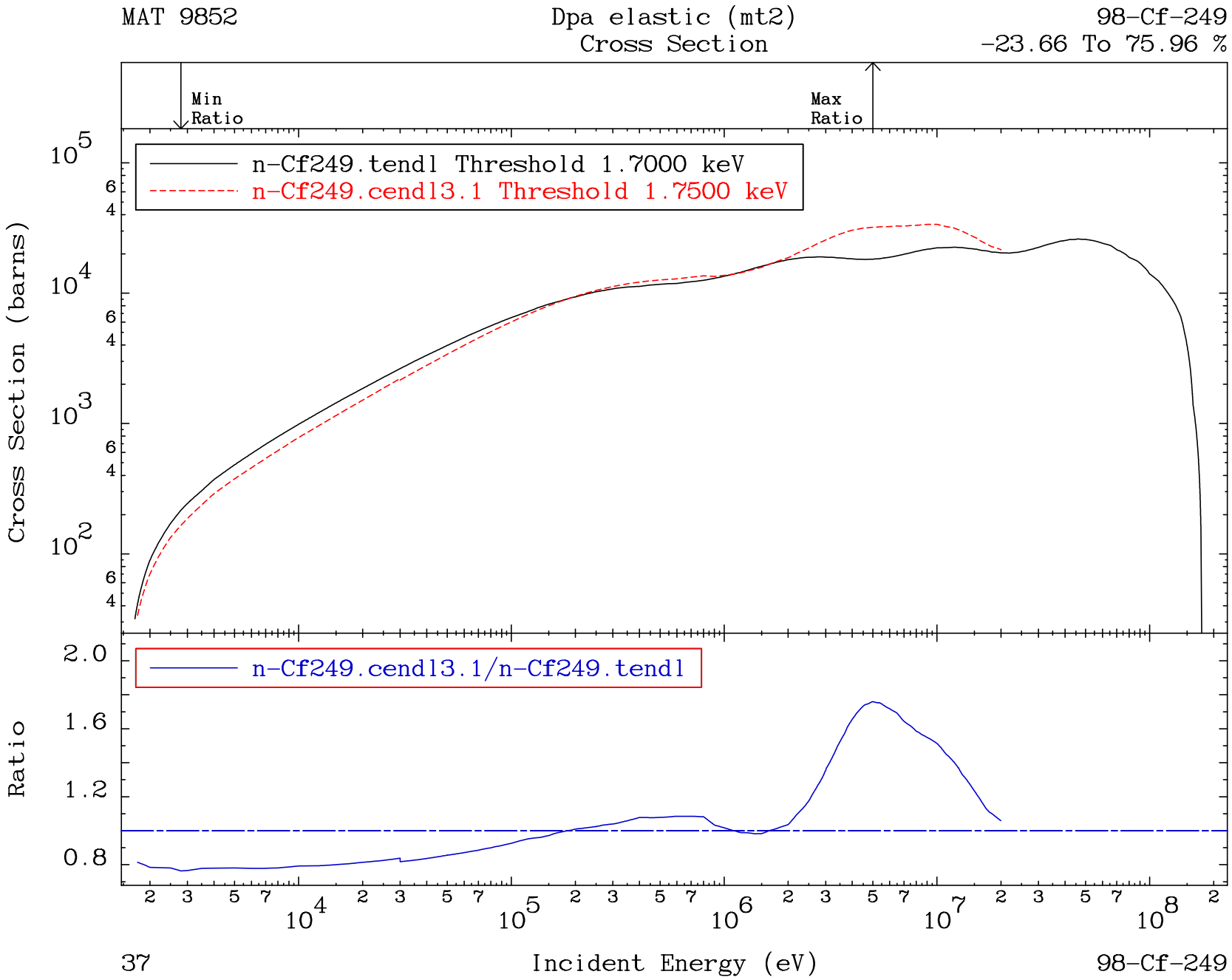

MAT 9852
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
98-Cf-249
-97.04 To 3055. %
Min Ratio
Max Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
32
98-Cf-249

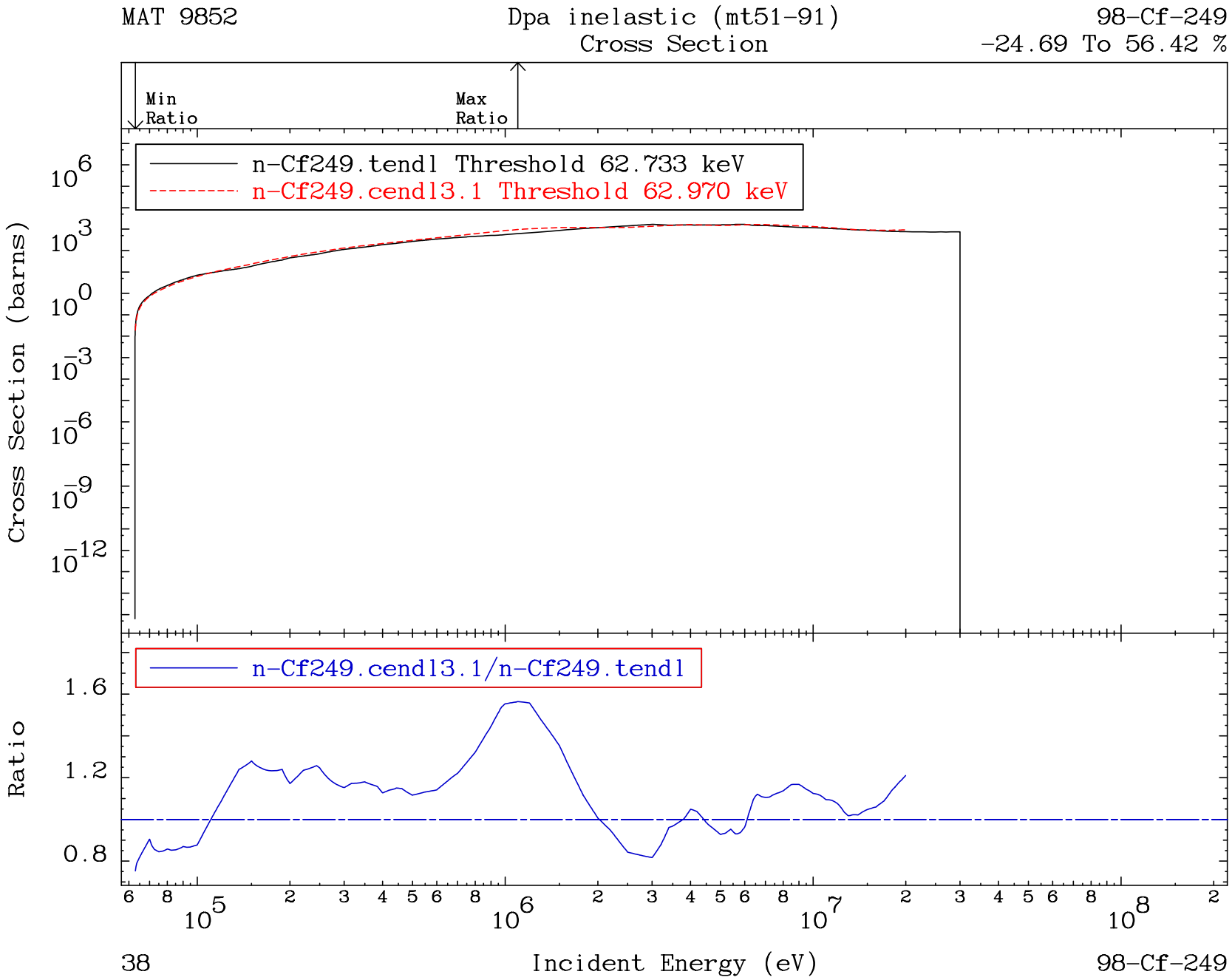

MAT 9852
Kerma capture (mt102)
Cross Section
98-Cf-249
-98.47 To 9999. %
Max Ratio
Min Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
33
98-Cf-249

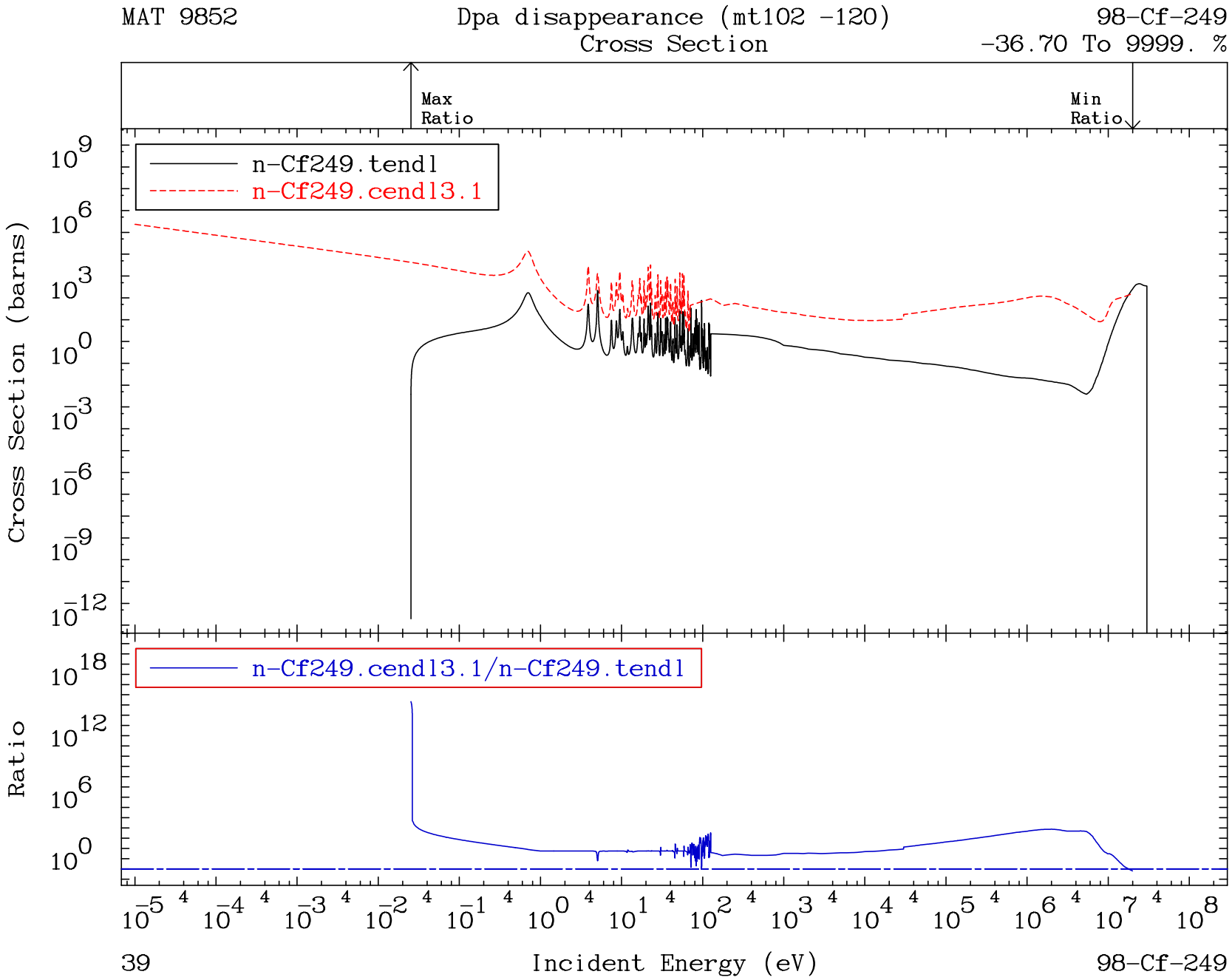

MAT 9852
Total photon (eV-barns)
Cross Section
98-Cf-249
-98.47 To 9999. %
Max Ratio
Min Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (Giga-barns)
0
2
4
6
8
10
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
10^{4}
10^{2}
10^{0}
10^{-2}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
34
Incident Energy (eV)
98-Cf-249


MAT 9852
Total kinematic kerma (high limit)
Cross Section
98-Cf-249
-97.08 To 3028. %
Min Ratio
Max Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
35
98-Cf-249


MAT 9852
Dpa total (eV-barns)
Cross Section
98-Cf-249
-99.99 To -30.15%
Min Ratio
Max Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
36
98-Cf-249


MAT 9852
Dpa elastic (mt2)
Cross Section
98-Cf-249
-23.66 To 75.96 %
Min Ratio
Max Ratio
n-Cf249.tendl Threshold 1.7000 keV
n-Cf249.cendl3.1 Threshold 1.7500 keV
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
37
98-Cf-249


MAT 9852
Dpa inelastic (mt51-91)
Cross Section
98-Cf-249
-24.69 To 56.42 %
Min Ratio
Max Ratio
n-Cf249.tendl Threshold 62.733 keV
n-Cf249.cendl3.1 Threshold 62.970 keV
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
38
98-Cf-249


MAT 9852
Dpa disappearance (mt102 -120)
Cross Section
98-Cf-249
-36.70 To 9999. %
Max Ratio
Min Ratio
n-Cf249.tendl
n-Cf249.cendl3.1
Cross Section (barns)
n-Cf249.cendl3.1/n-Cf249.tendl
Ratio
Incident Energy (eV)
39
98-Cf-249