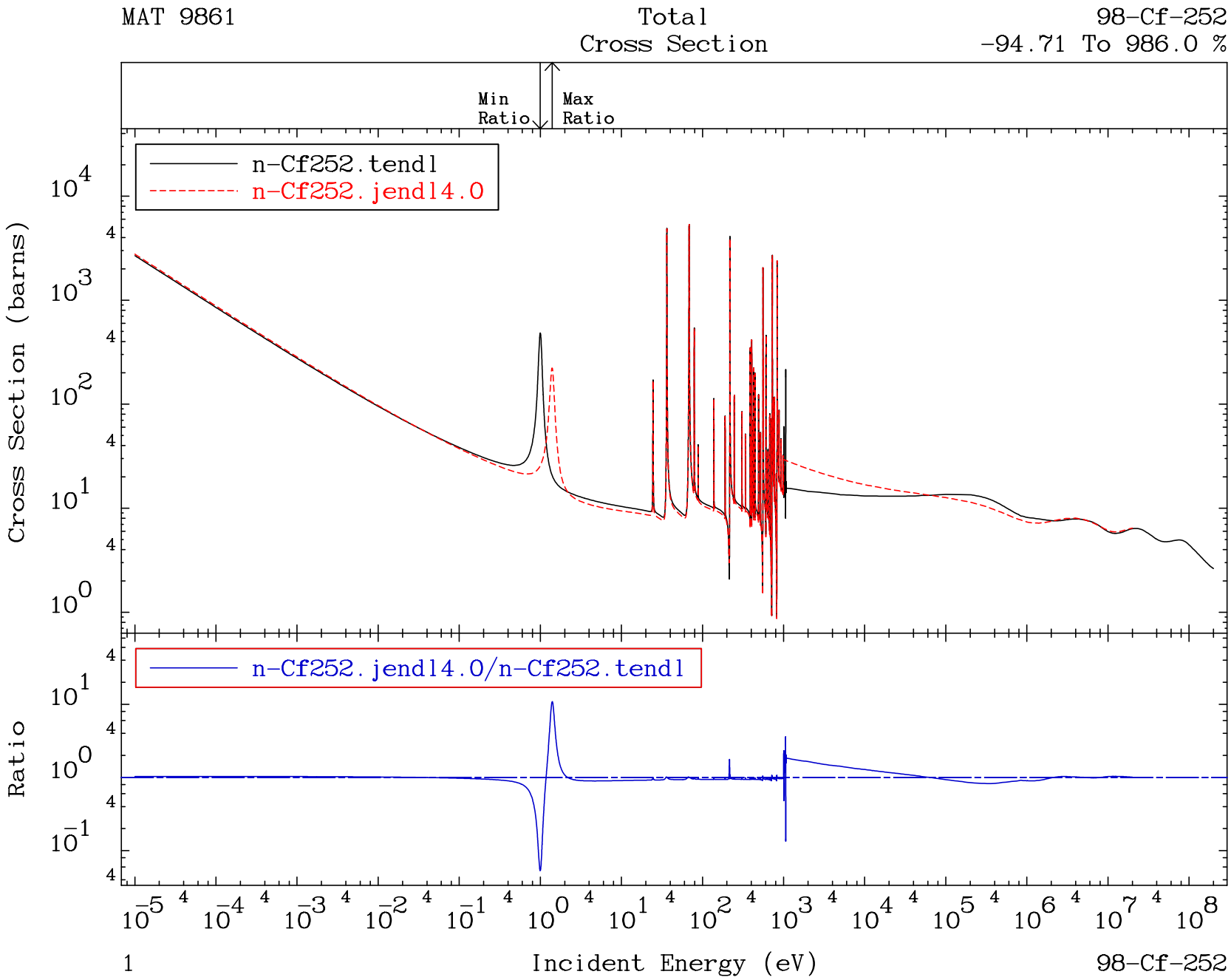
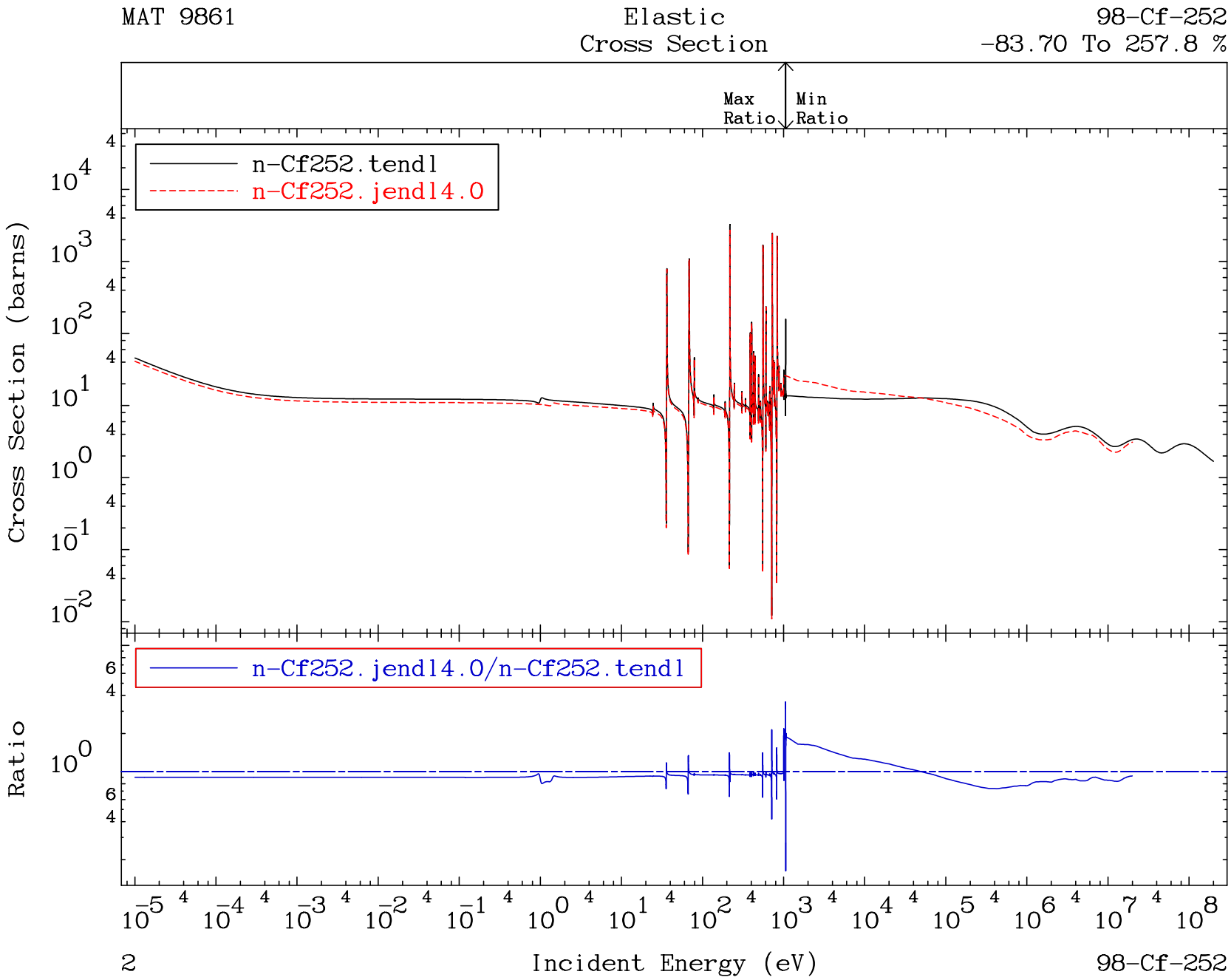
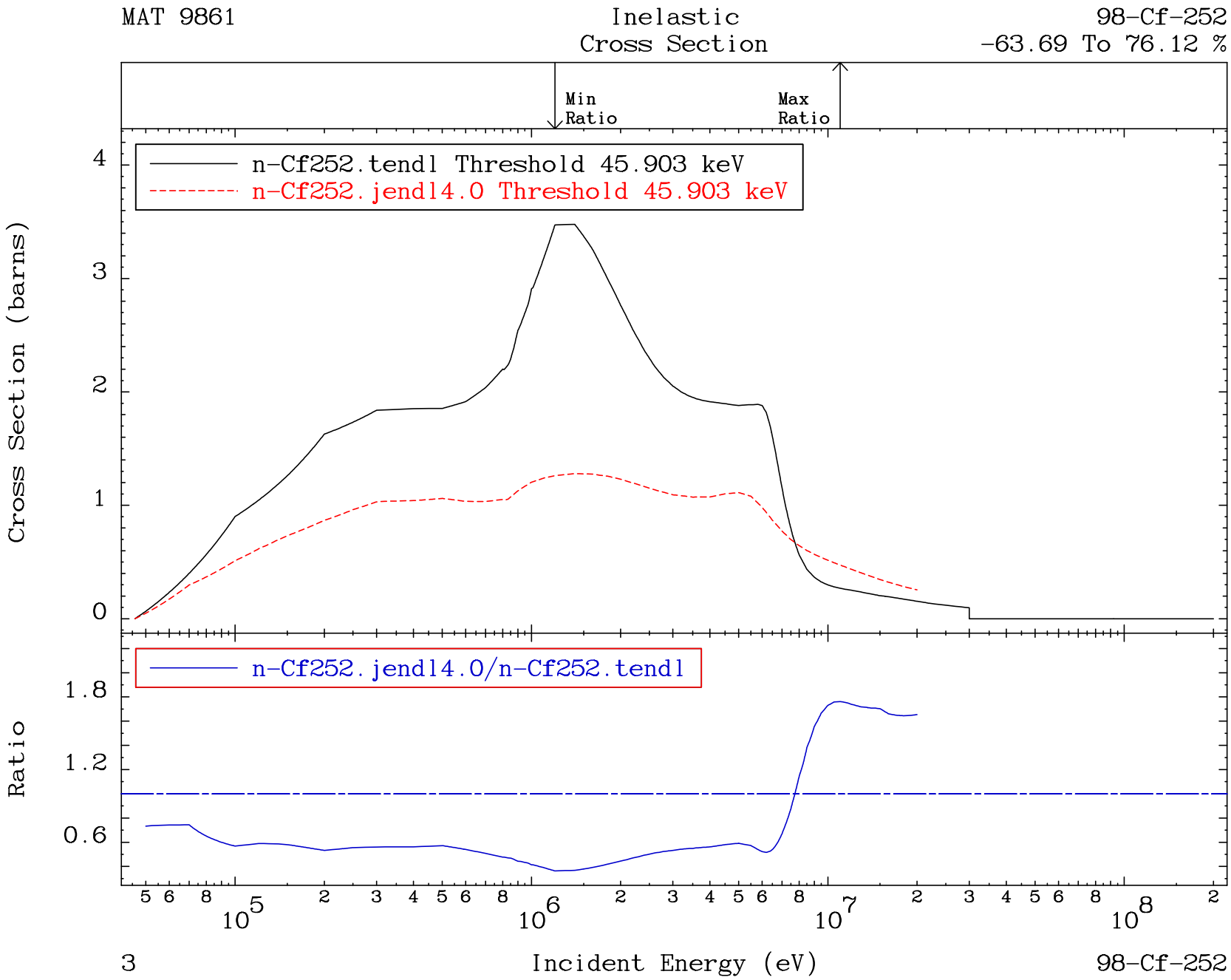
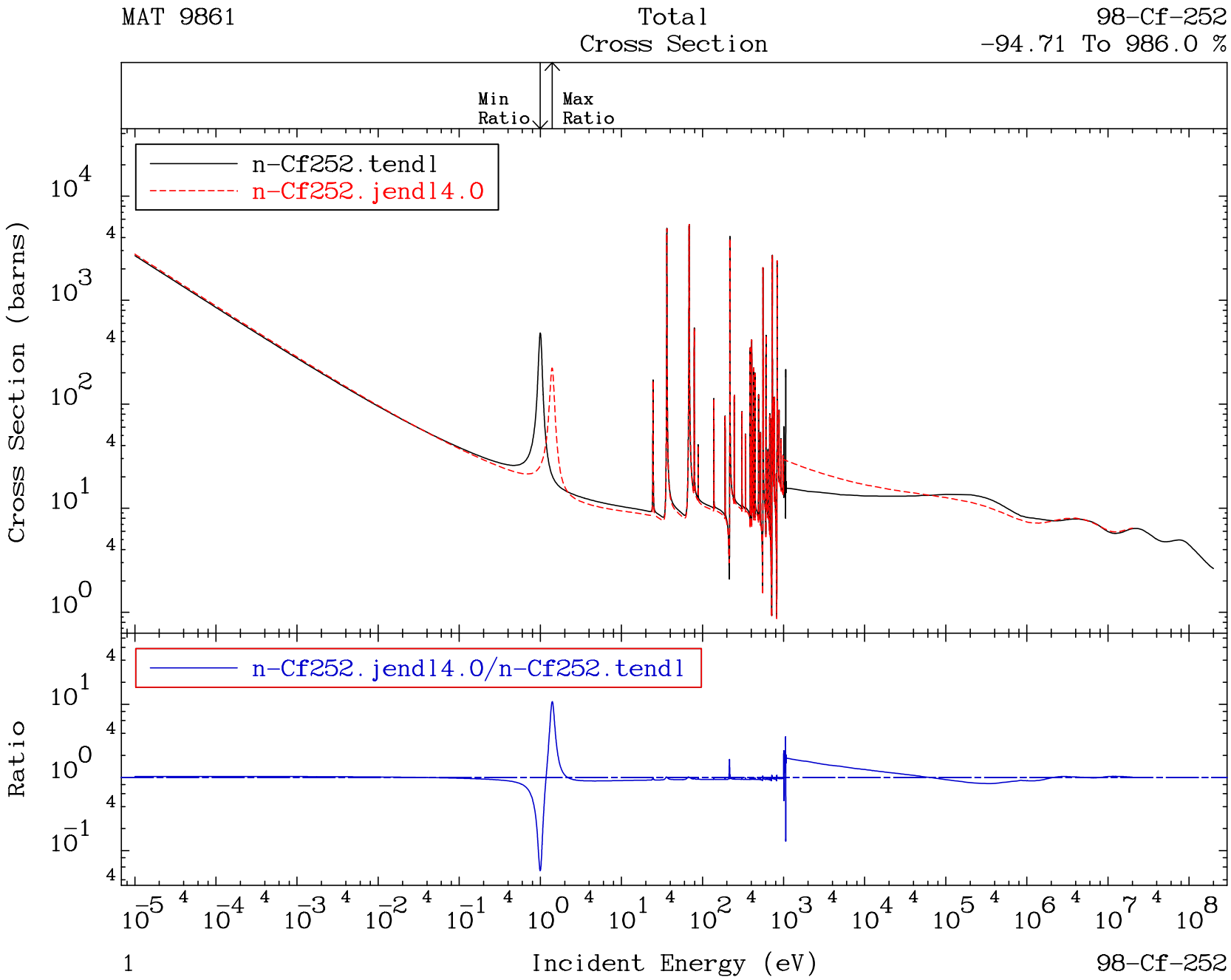
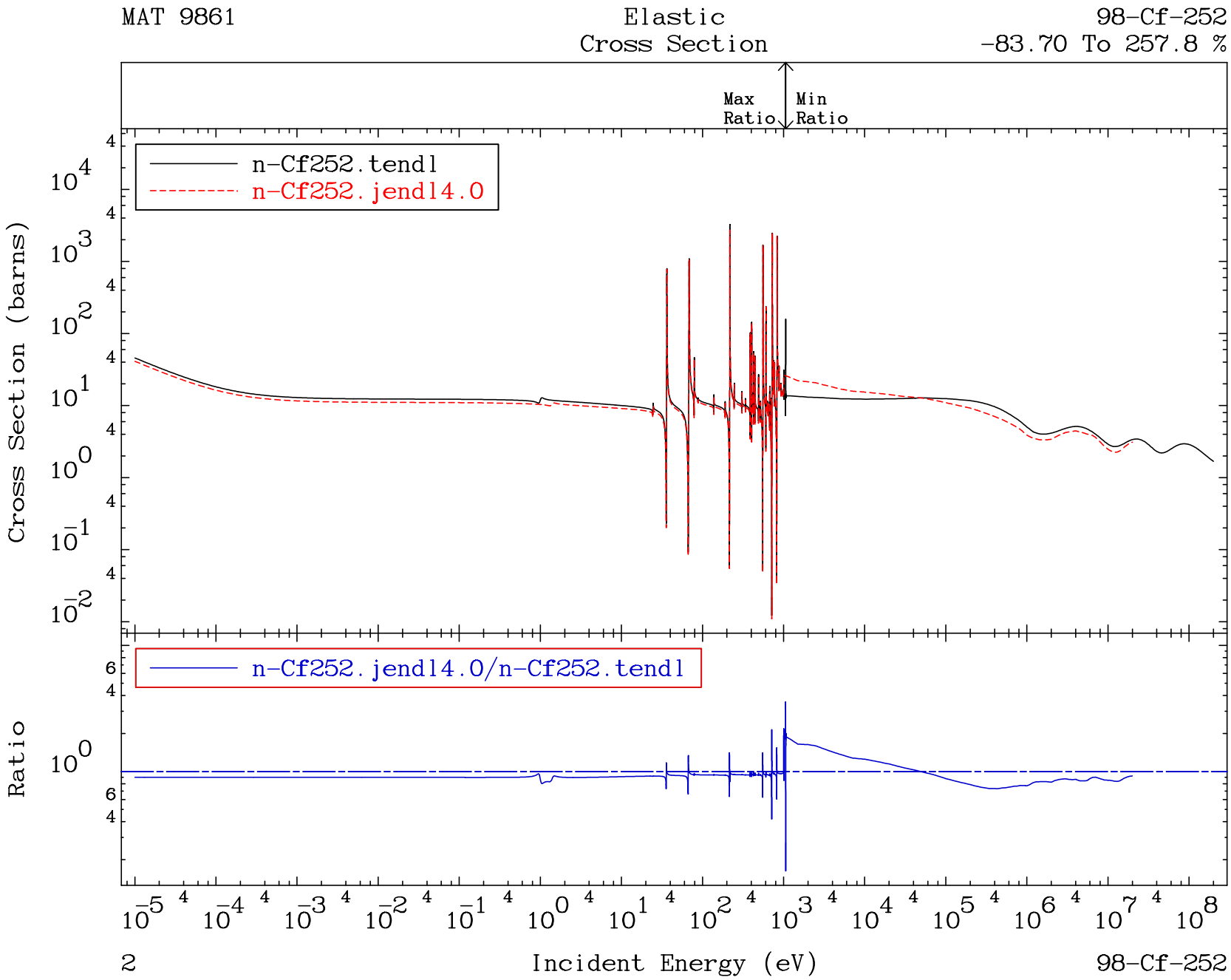
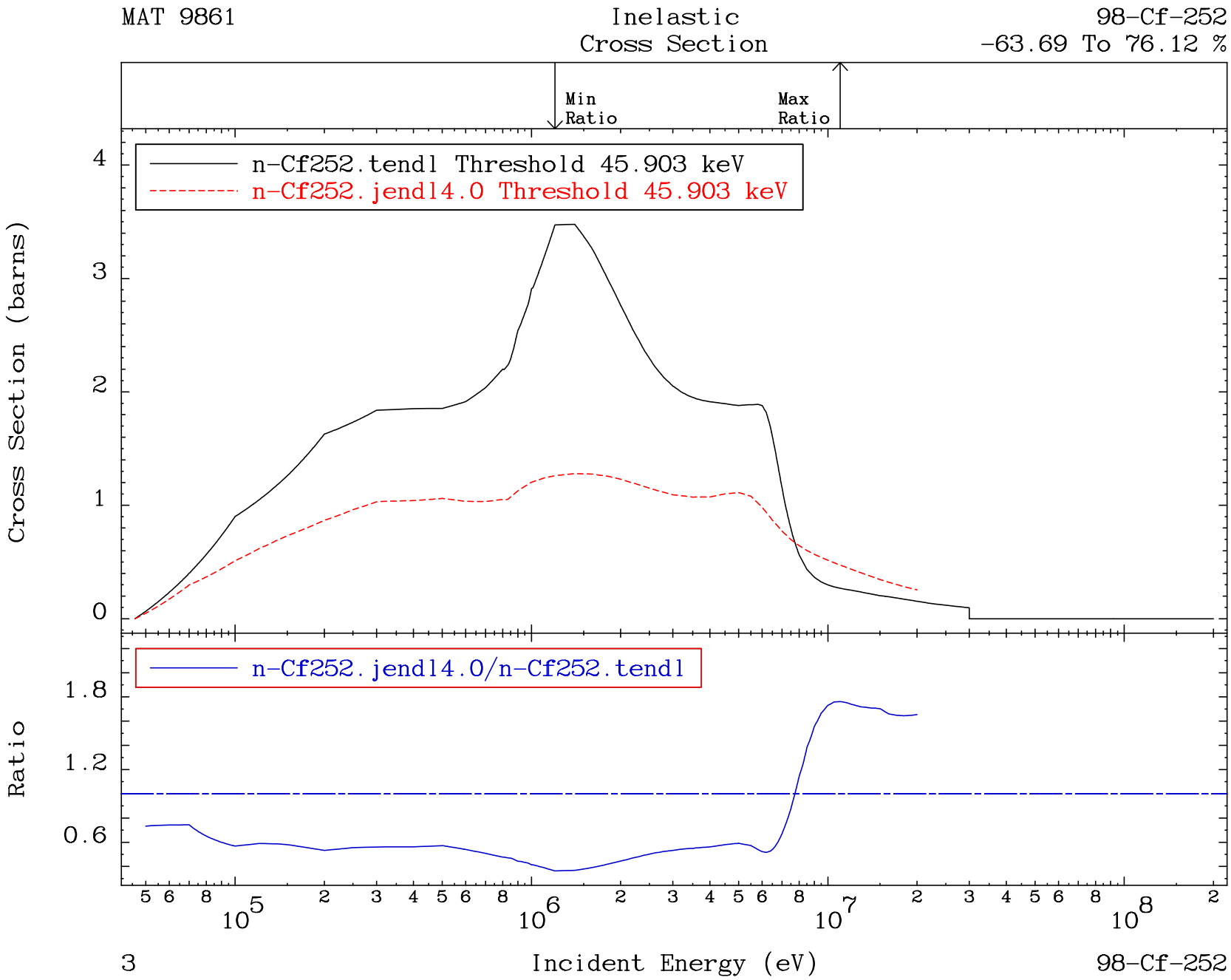

MAT 9861
Total
Cross Section
98-Cf-252
-94.71 To 986.0 %
Min
Ratio
Max
Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
1
98-Cf-252

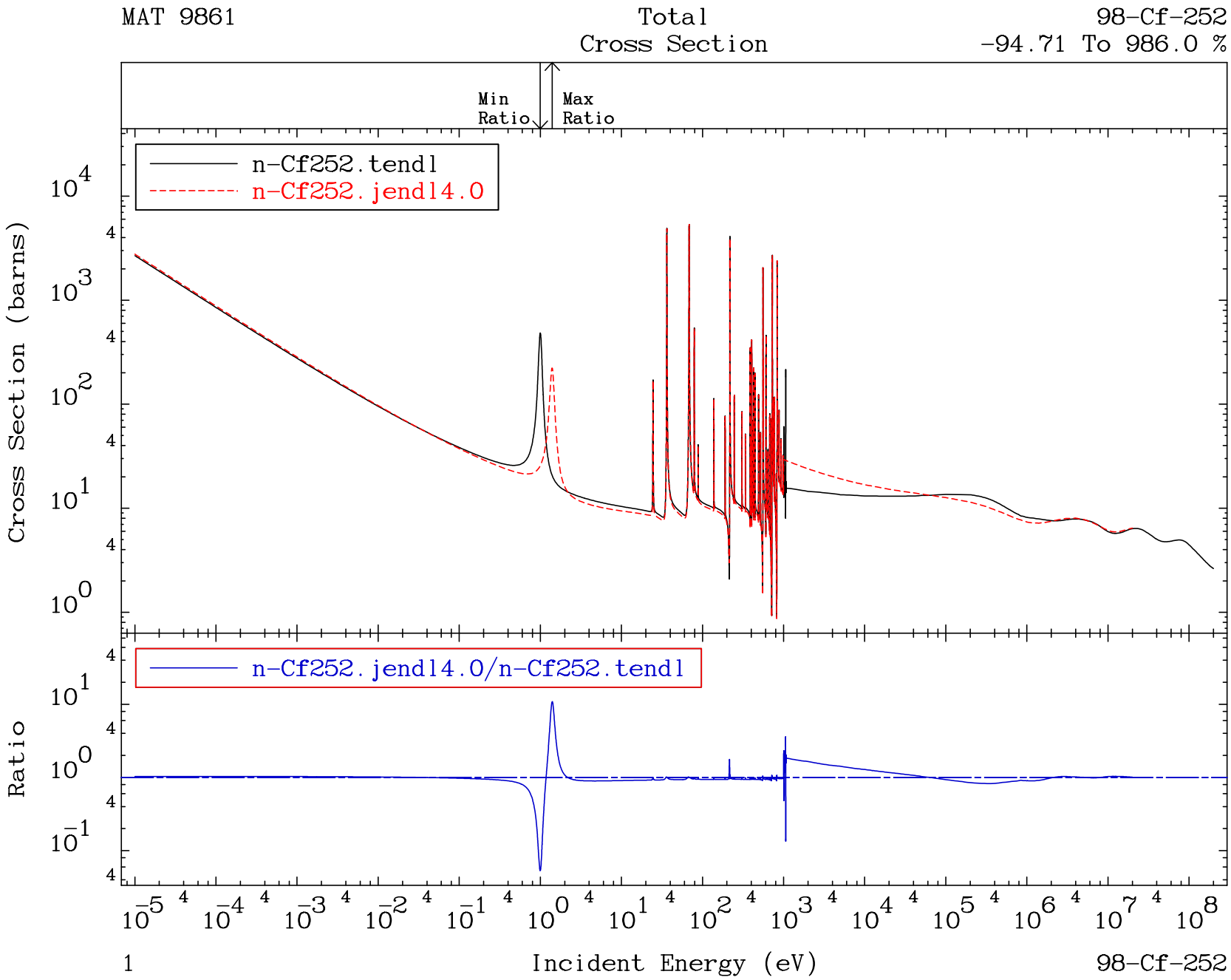

MAT 9861
Elastic
Cross Section
98-Cf-252
-83.70 To 257.8 %
Max Ratio
Min Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
2
98-Cf-252

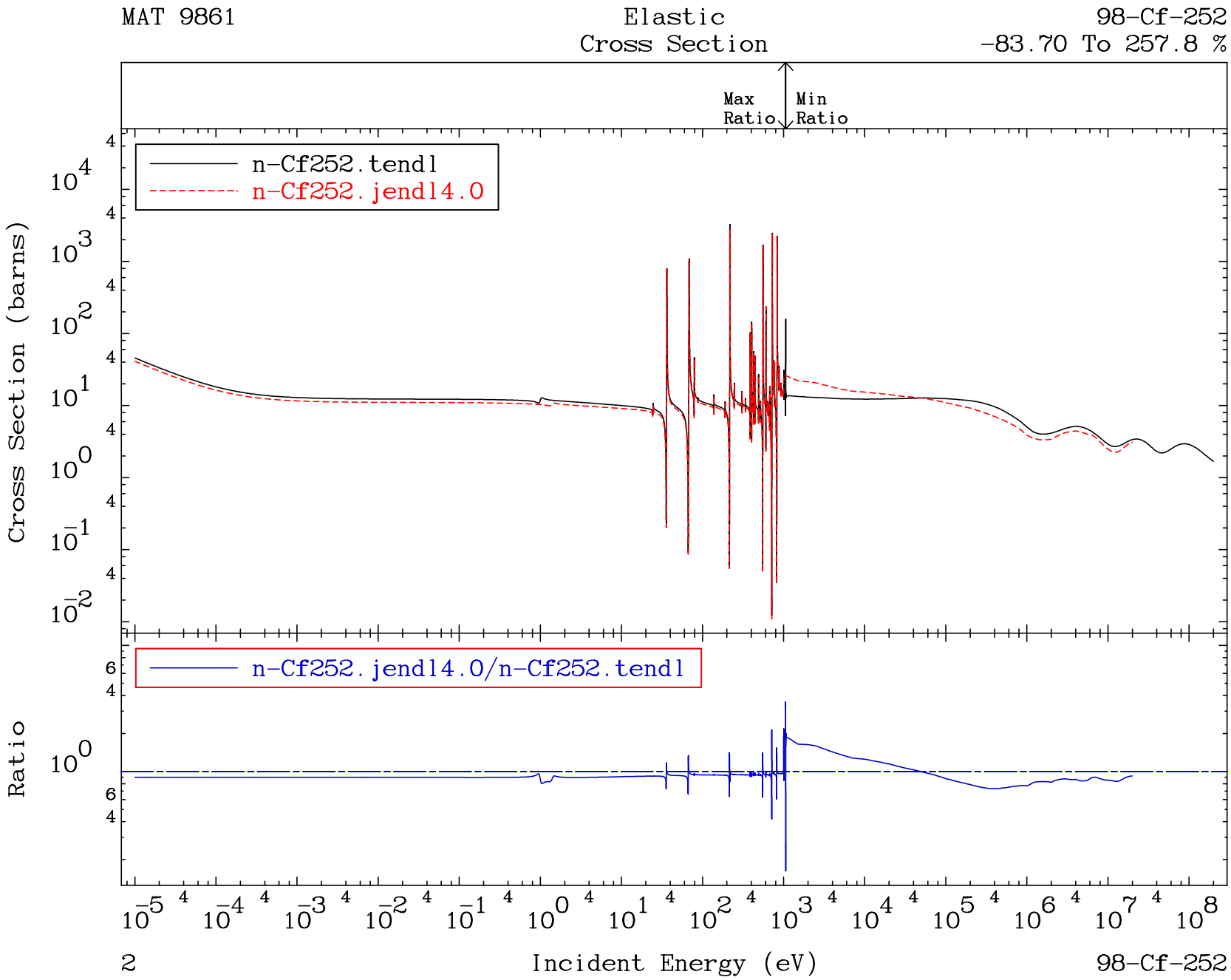

MAT 9861
Inelastic
Cross Section
98-Cf-252
-63.69 To 76.12 %
Min
Ratio
Max
Ratio
n-Cf252.tendl Threshold 45.903 keV
n-Cf252.jendl4.0 Threshold 45.903 keV
Cross Section (barns)
0
1
2
3
4
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
0.6
1.2
1.8
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
98-Cf-252

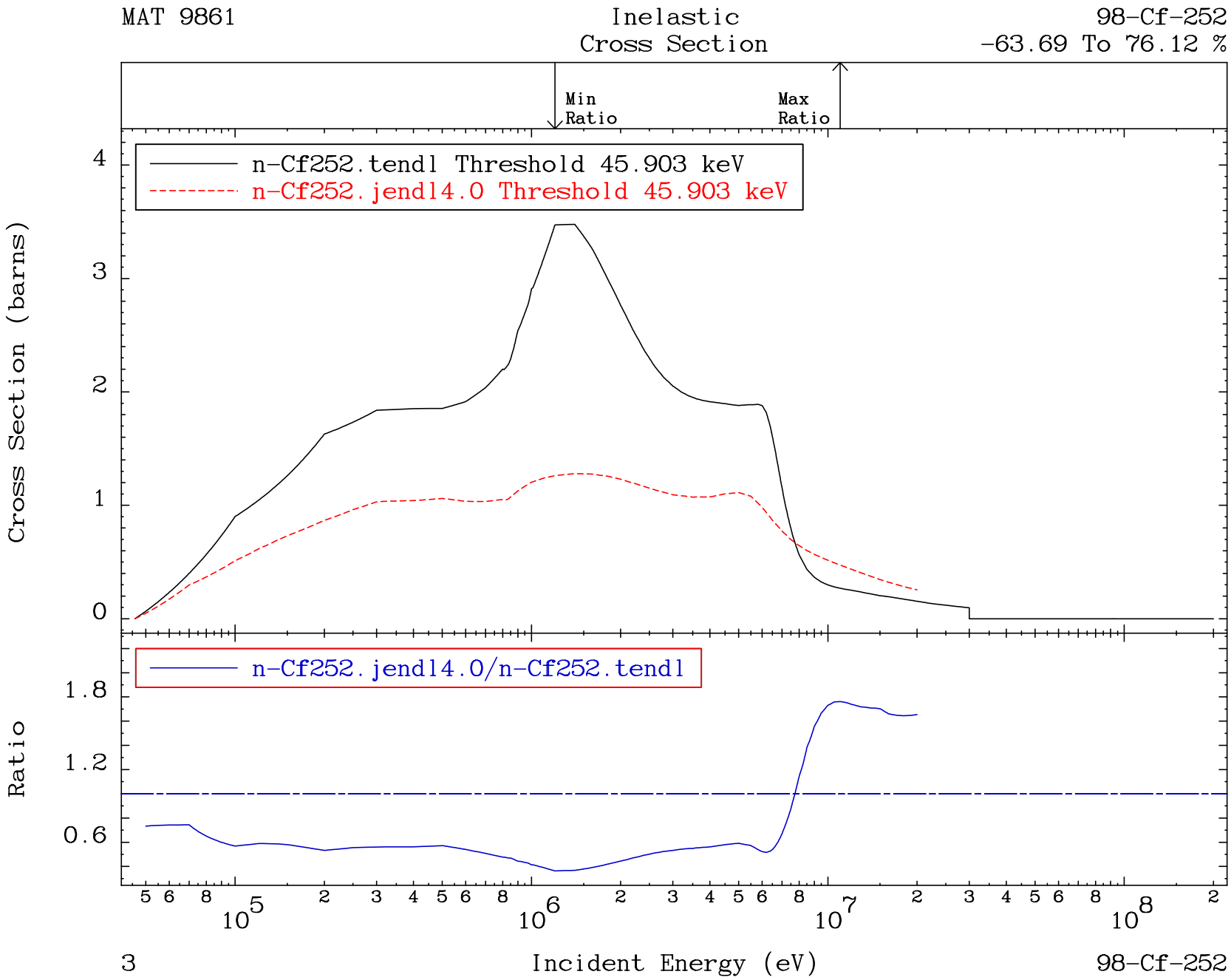

MAT 9861
Total
Cross Section
98-Cf-252
-94.71 To 986.0 %
Min
Ratio
Max
Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
1
98-Cf-252

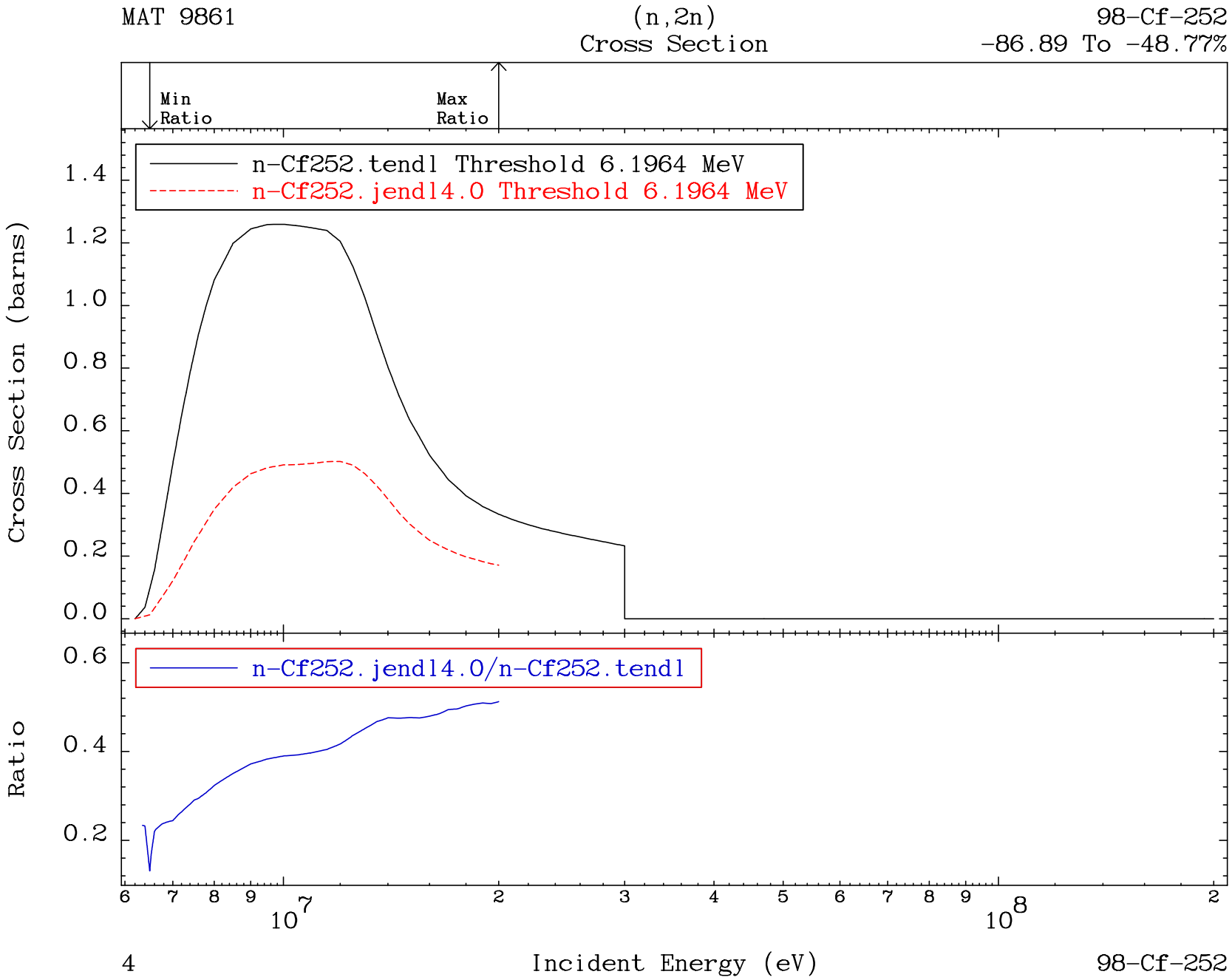

MAT 9861
Elastic
Cross Section
98-Cf-252
-83.70 To 257.8 %
Max Ratio
Min Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
2
98-Cf-252

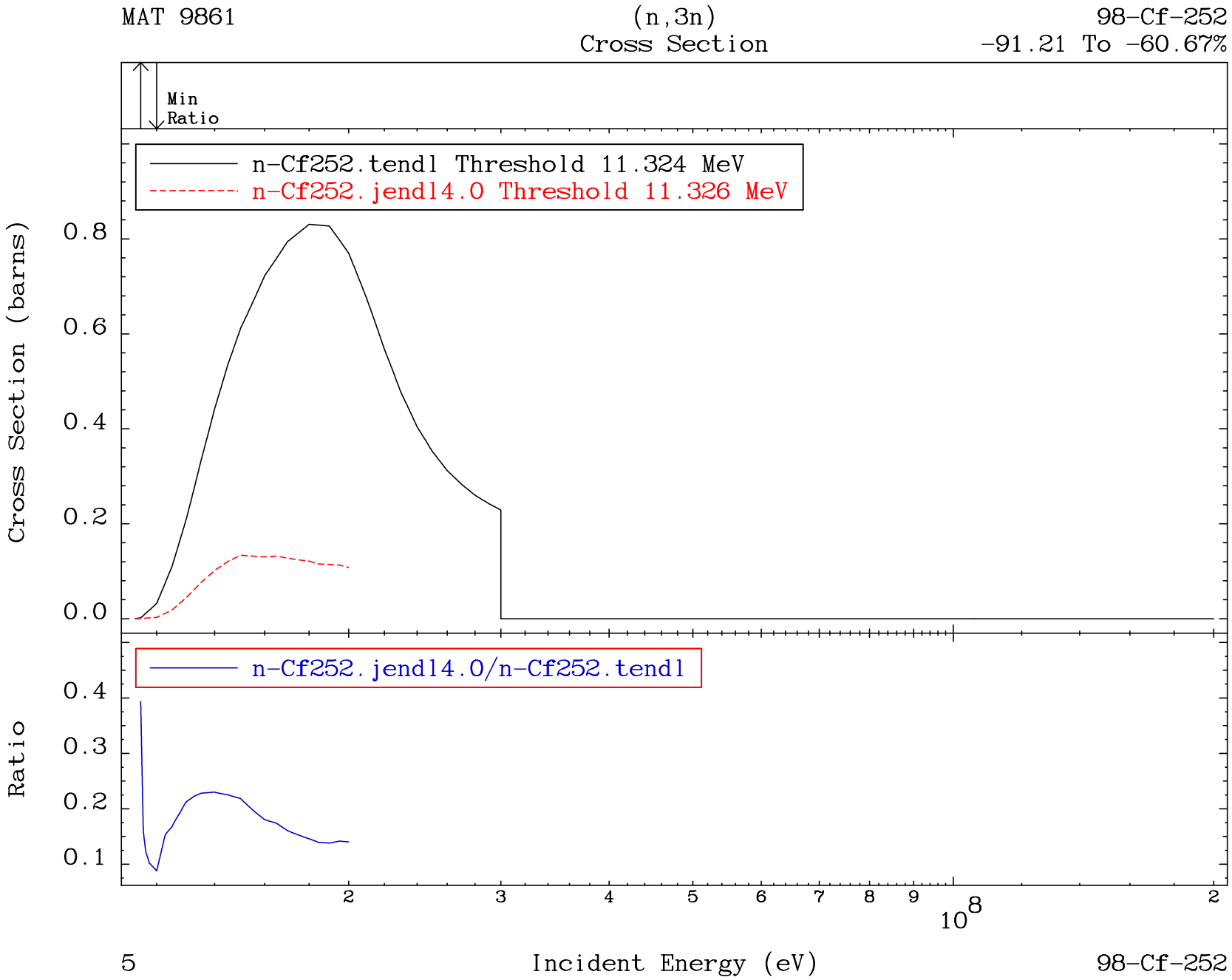

MAT 9861
Inelastic
Cross Section
98-Cf-252
-63.69 To 76.12 %
Min
Ratio
Max
Ratio
n-Cf252.tendl Threshold 45.903 keV
n-Cf252.jendl4.0 Threshold 45.903 keV
Cross Section (barns)
0
1
2
3
4
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
0.6
1.2
1.8
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
98-Cf-252

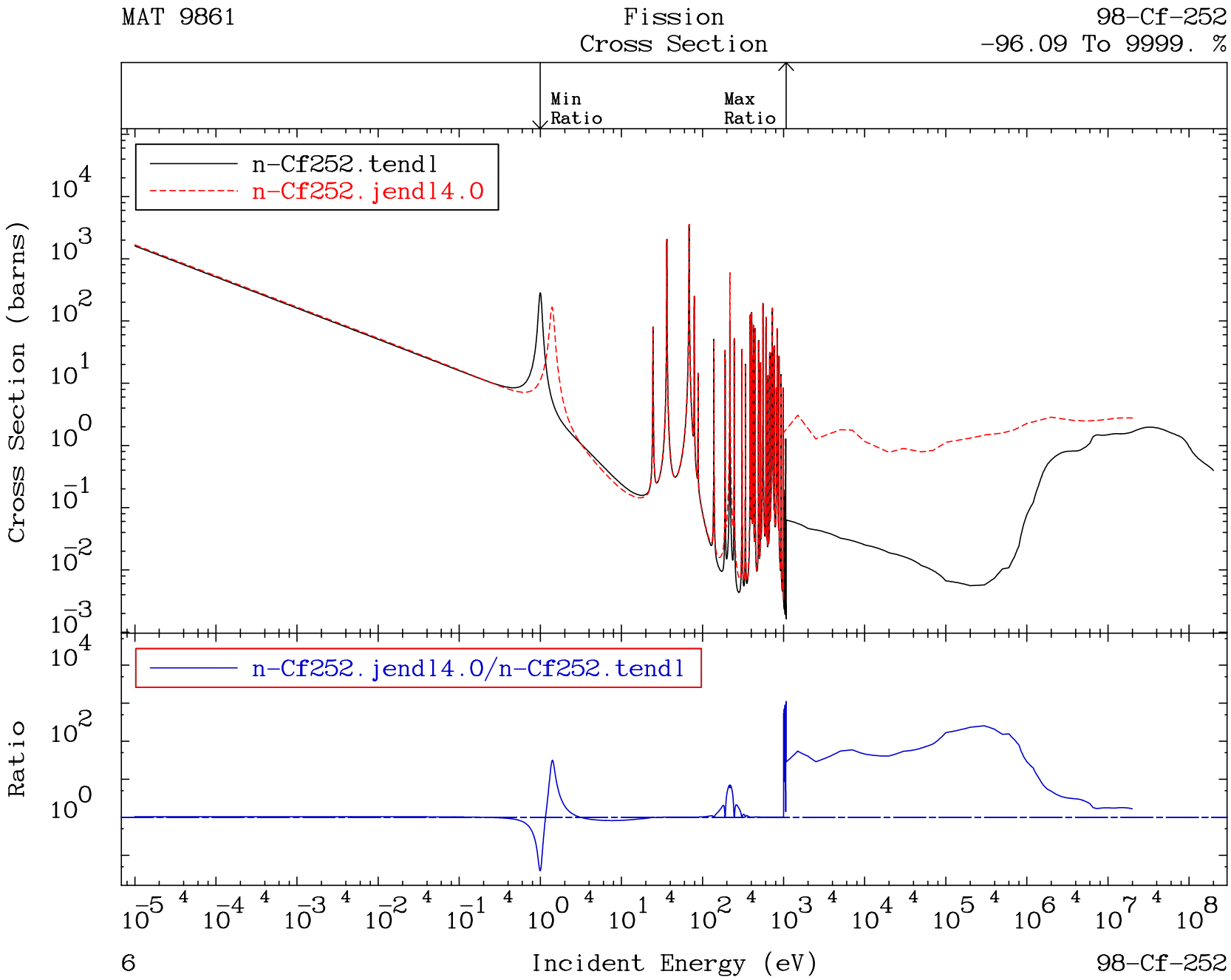

MAT 9861
Total
Cross Section
98-Cf-252
-94.71 To 986.0 %
Min
Ratio
Max
Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
1
98-Cf-252

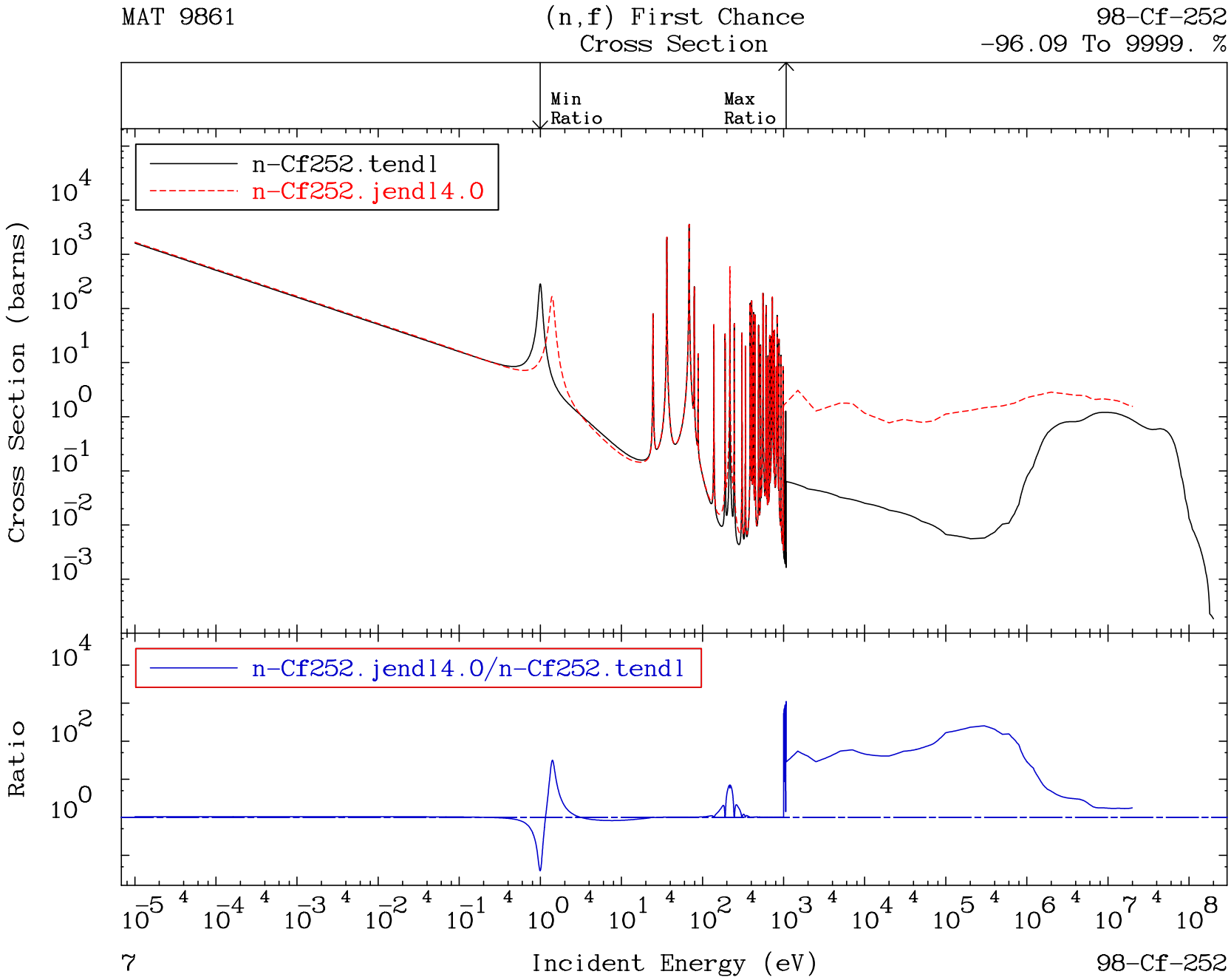

MAT 9861
Elastic
Cross Section
98-Cf-252
-83.70 To 257.8 %
Max Ratio
Min Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
2
98-Cf-252

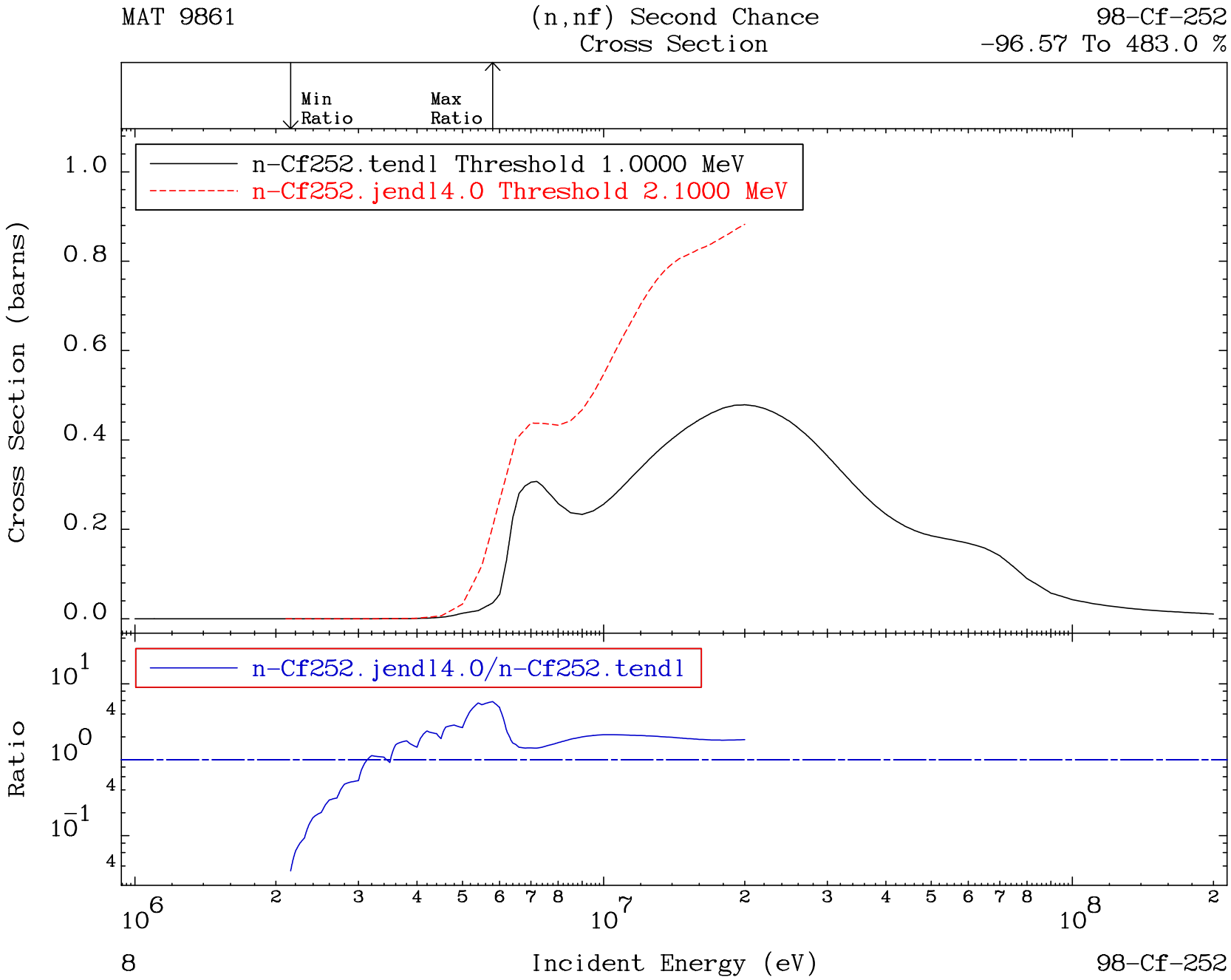

MAT 9861
Inelastic
Cross Section
98-Cf-252
-63.69 To 76.12 %
Min
Ratio
Max
Ratio
n-Cf252.tendl Threshold 45.903 keV
n-Cf252.jendl4.0 Threshold 45.903 keV
Cross Section (barns)
0
1
2
3
4
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
0.6
1.2
1.8
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
98-Cf-252

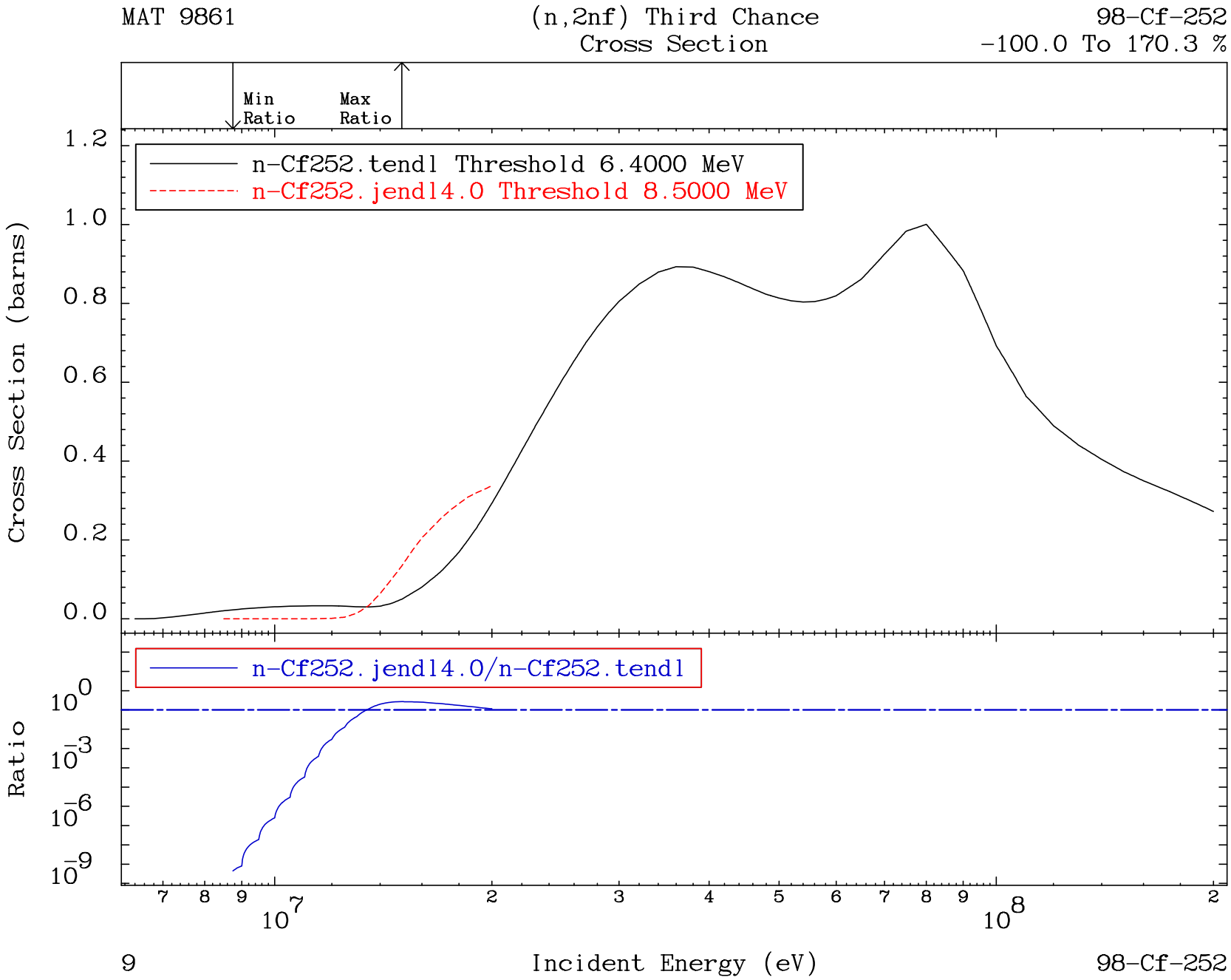

MAT 9861
(n,2n)
Cross Section
98-Cf-252
-86.89 To -48.77%
Min Ratio
Max Ratio
n-Cf252.tendl Threshold 6.1964 MeV
n-Cf252.jendl4.0 Threshold 6.1964 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
0.6
0.4
0.2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
98-Cf-252

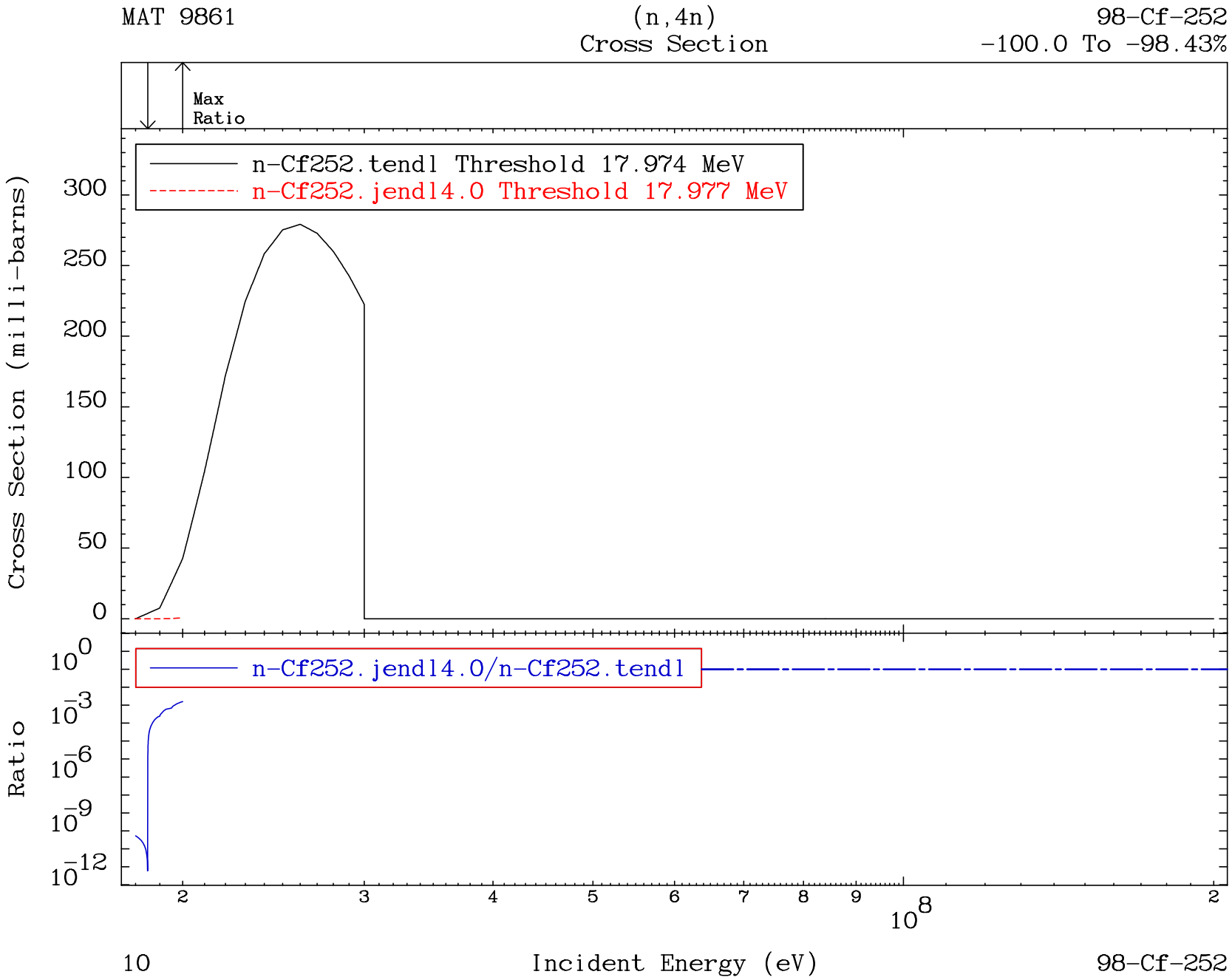

MAT 9861
(n,3n)
Cross Section
98-Cf-252
-91.21 To -60.67%
Min
Ratio
n-Cf252.tendl Threshold 11.324 MeV
n-Cf252.jendl4.0 Threshold 11.326 MeV
Cross Section (barns)
0.8
0.6
0.4
0.2
0.0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
0.4
0.3
0.2
0.1
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
98-Cf-252

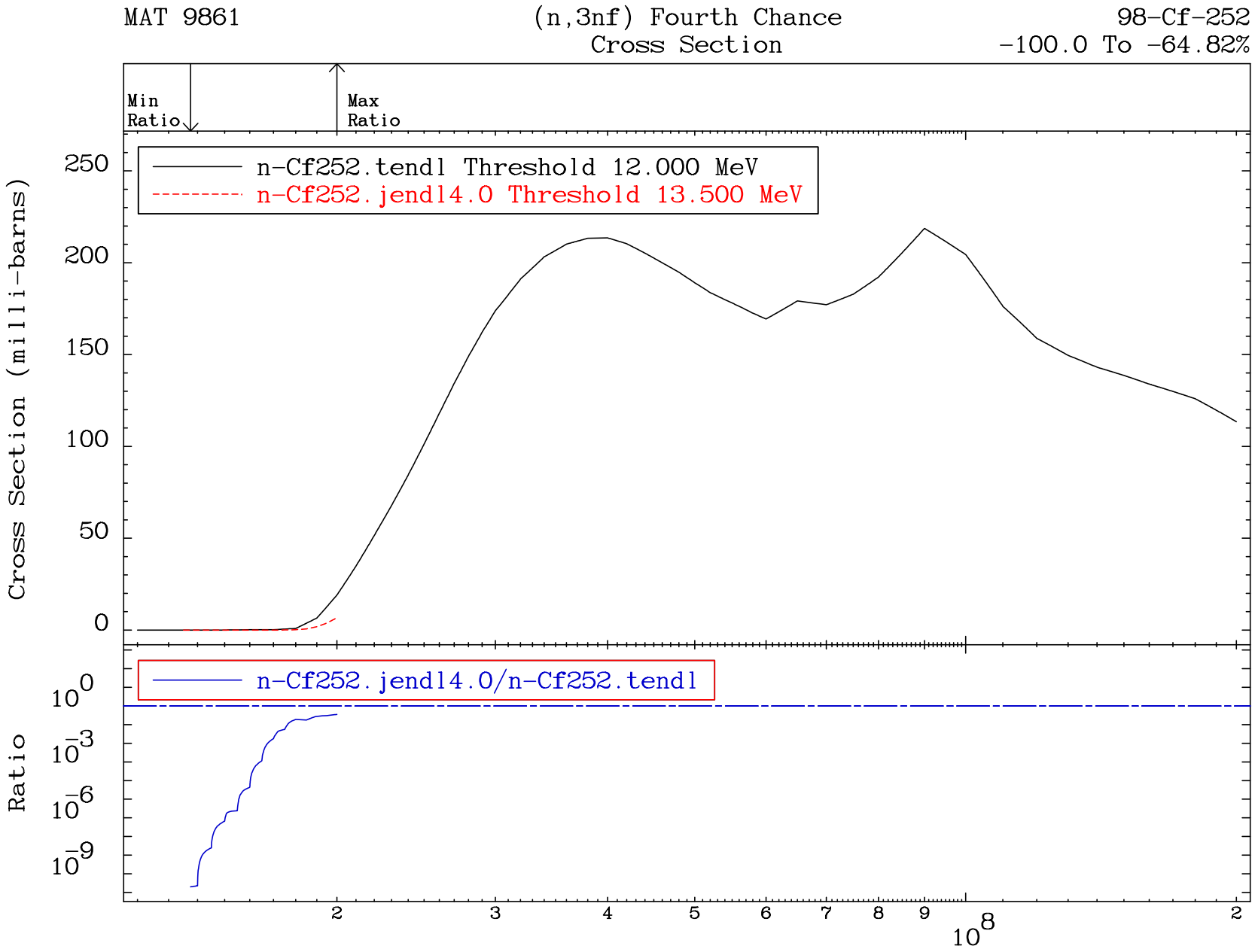

MAT 9861
Fission
Cross Section
98-Cf-252
-96.09 To 9999. %
Min
Ratio
Max
Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
6
98-Cf-252

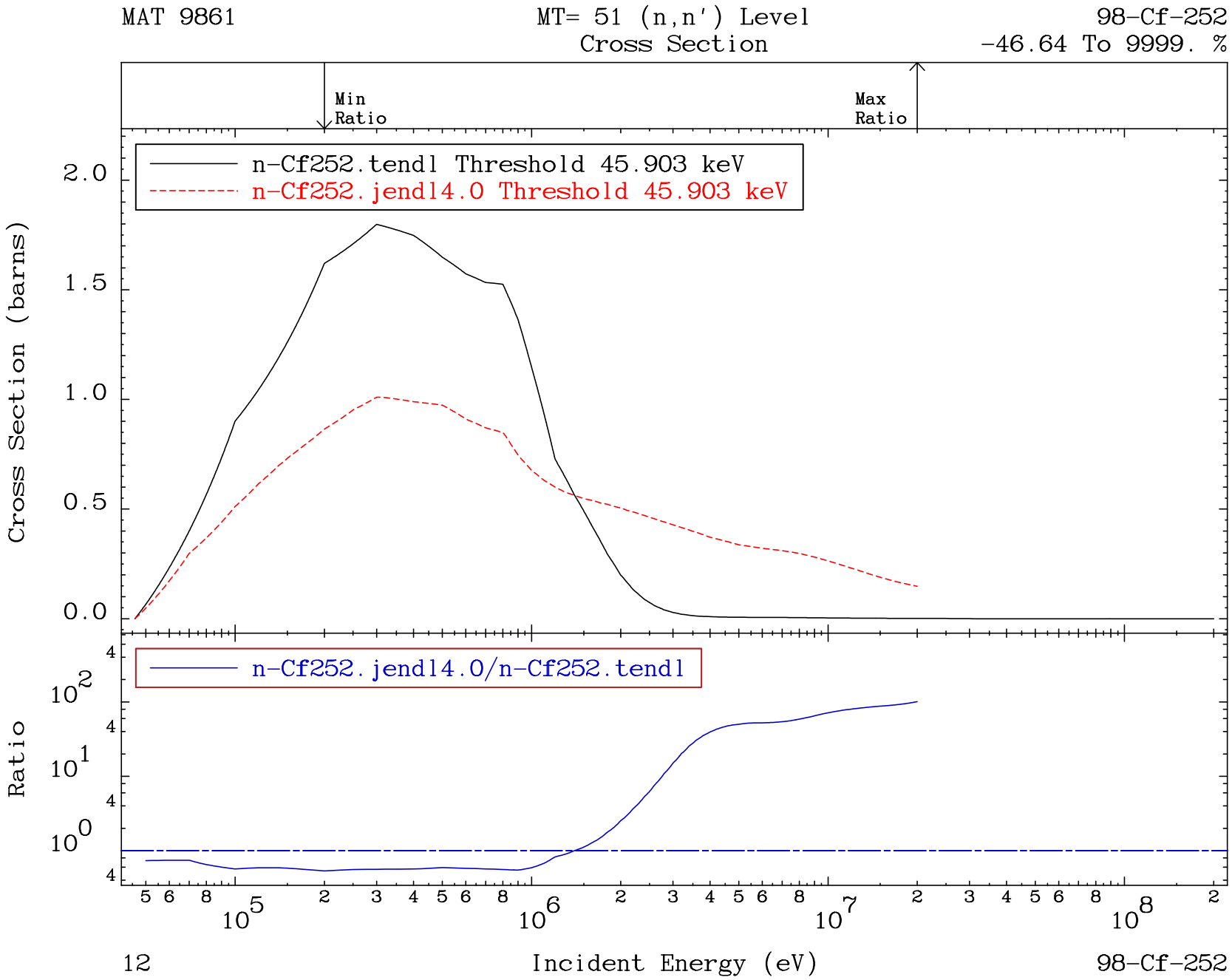

MAT 9861
(n,f) First Chance
Cross Section
98-Cf-252
-96.09 To 9999. %
Min
Ratio
Max
Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
7
98-Cf-252

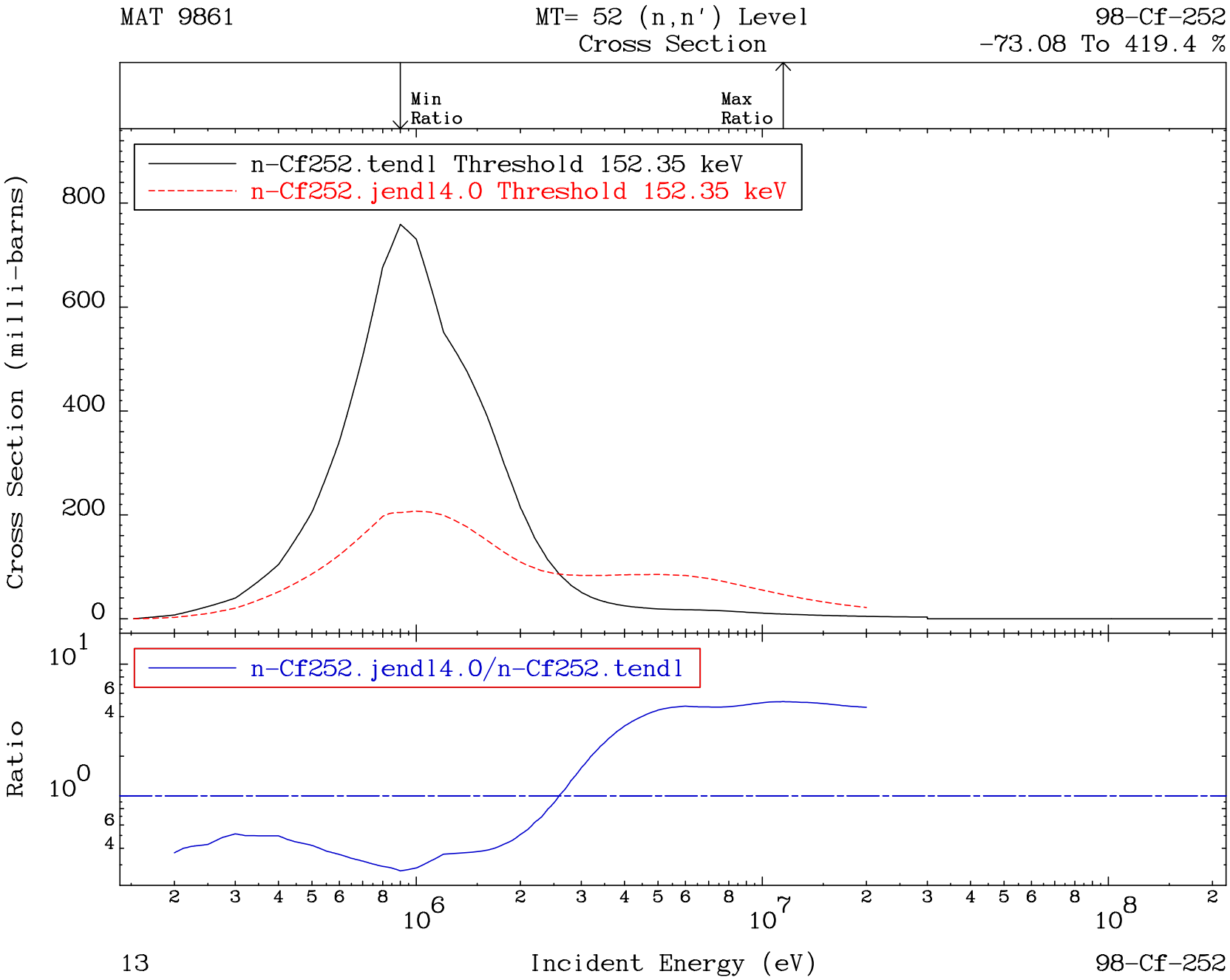

MAT 9861
(n,nf) Second Chance
Cross Section
98-Cf-252
-96.57 To 483.0 %
Min
Ratio
Max
Ratio
n-Cf252.tendl Threshold 1.0000 MeV
n-Cf252.jendl4.0 Threshold 2.1000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^1
10^0
10^-1
10^6
10^7
10^8
Incident Energy (eV)
98-Cf-252

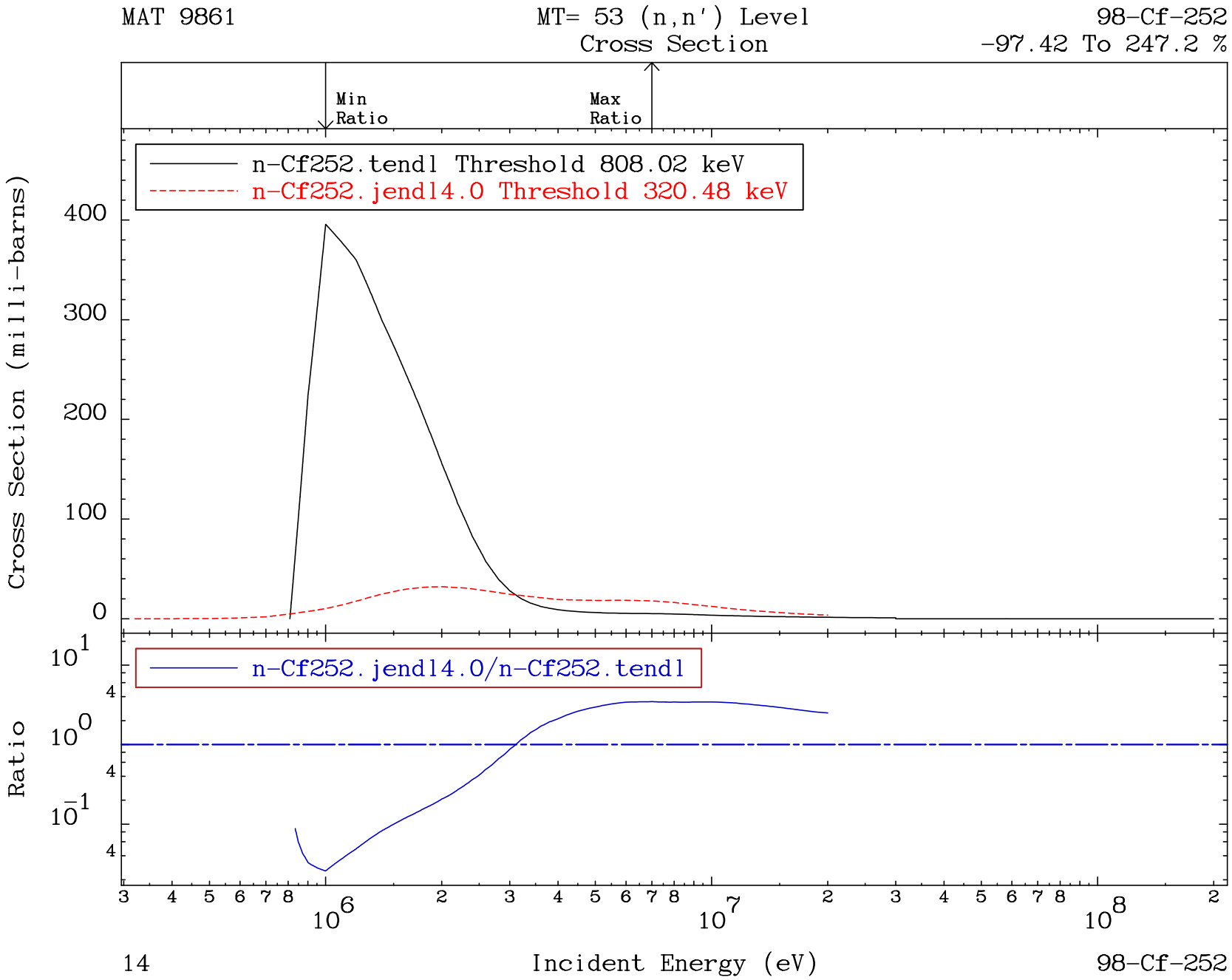

MAT 9861
(n,2nf) Third Chance
Cross Section
98-Cf-252
-100.0 To 170.3 %
Min Ratio
Max Ratio
n-Cf252.tendl Threshold 6.4000 MeV
n-Cf252.jendl4.0 Threshold 8.5000 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^0
10^-3
10^-6
10^-9
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
98-Cf-252

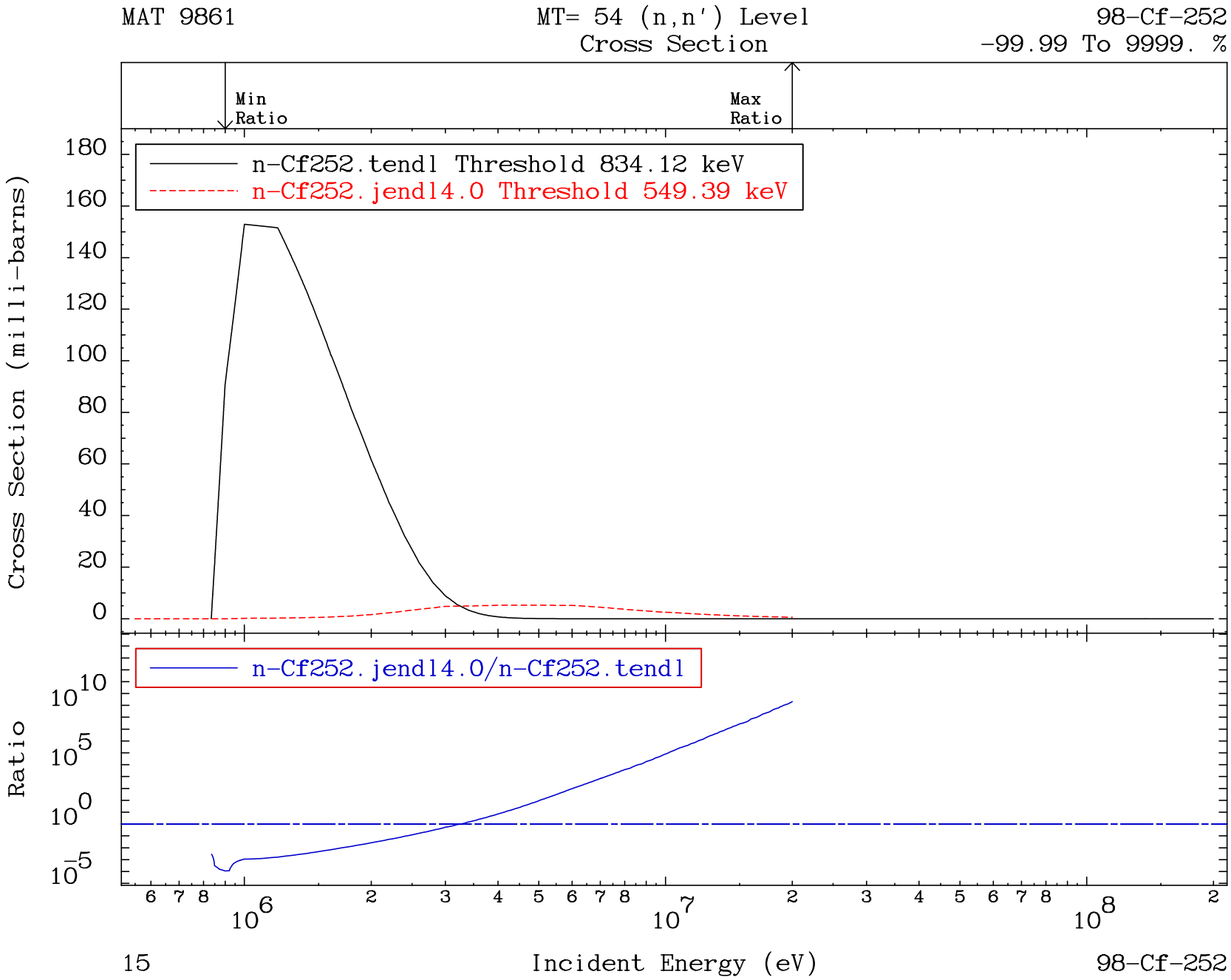

MAT 9861
(n,4n)
Cross Section
98-Cf-252
-100.0 To -98.43%
Max
Ratio
n-Cf252.tendl Threshold 17.974 MeV
n-Cf252.jendl4.0 Threshold 17.977 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^0
10^-3
10^-6
10^-9
10^-12
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
98-Cf-252

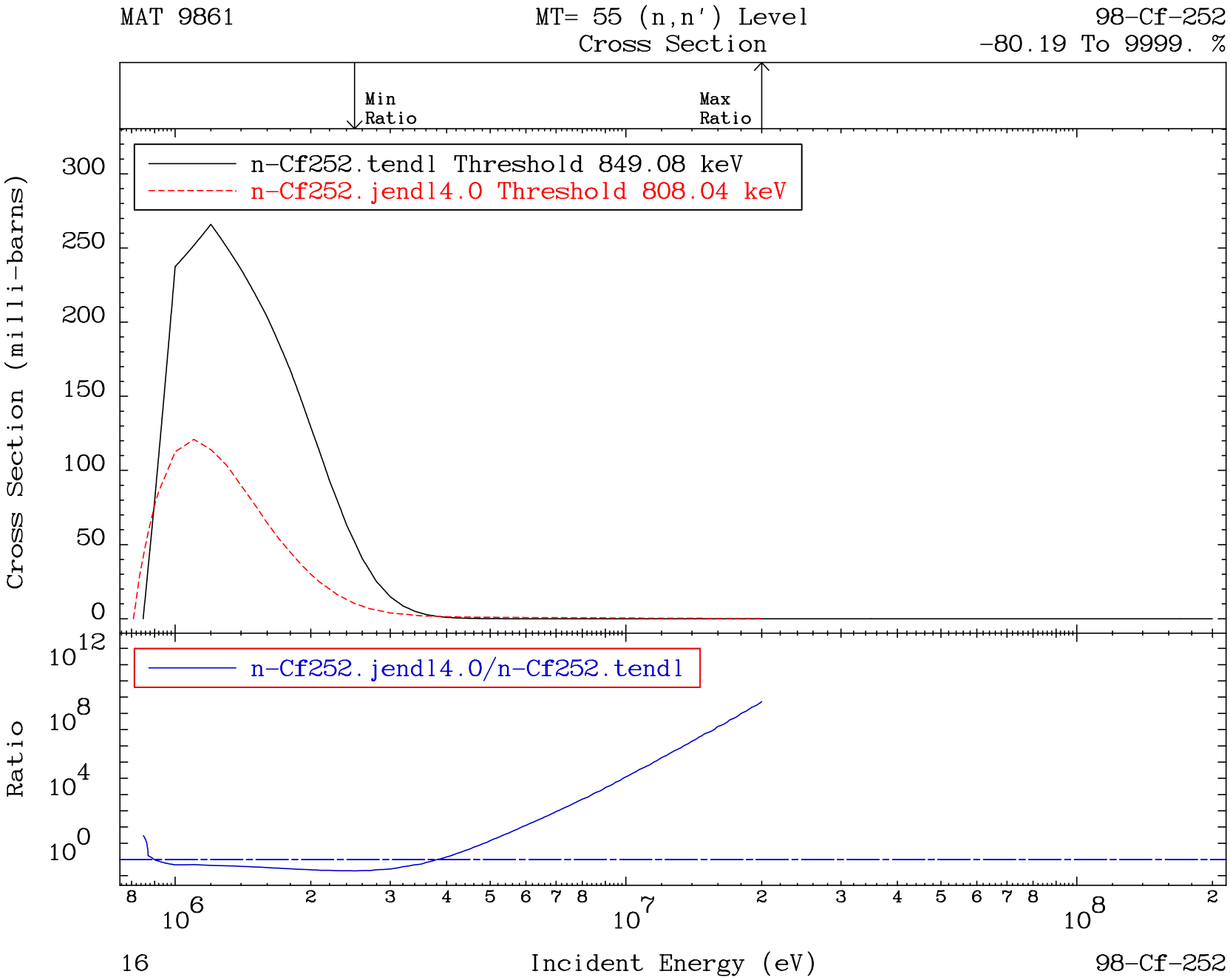

MAT 9861
(n,3nf) Fourth Chance
Cross Section
98-Cf-252
-100.0 To -64.82%
Min
Ratio
Max
Ratio
n-Cf252.tendl Threshold 12.000 MeV
n-Cf252.jendl4.0 Threshold 13.500 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
98-Cf-252

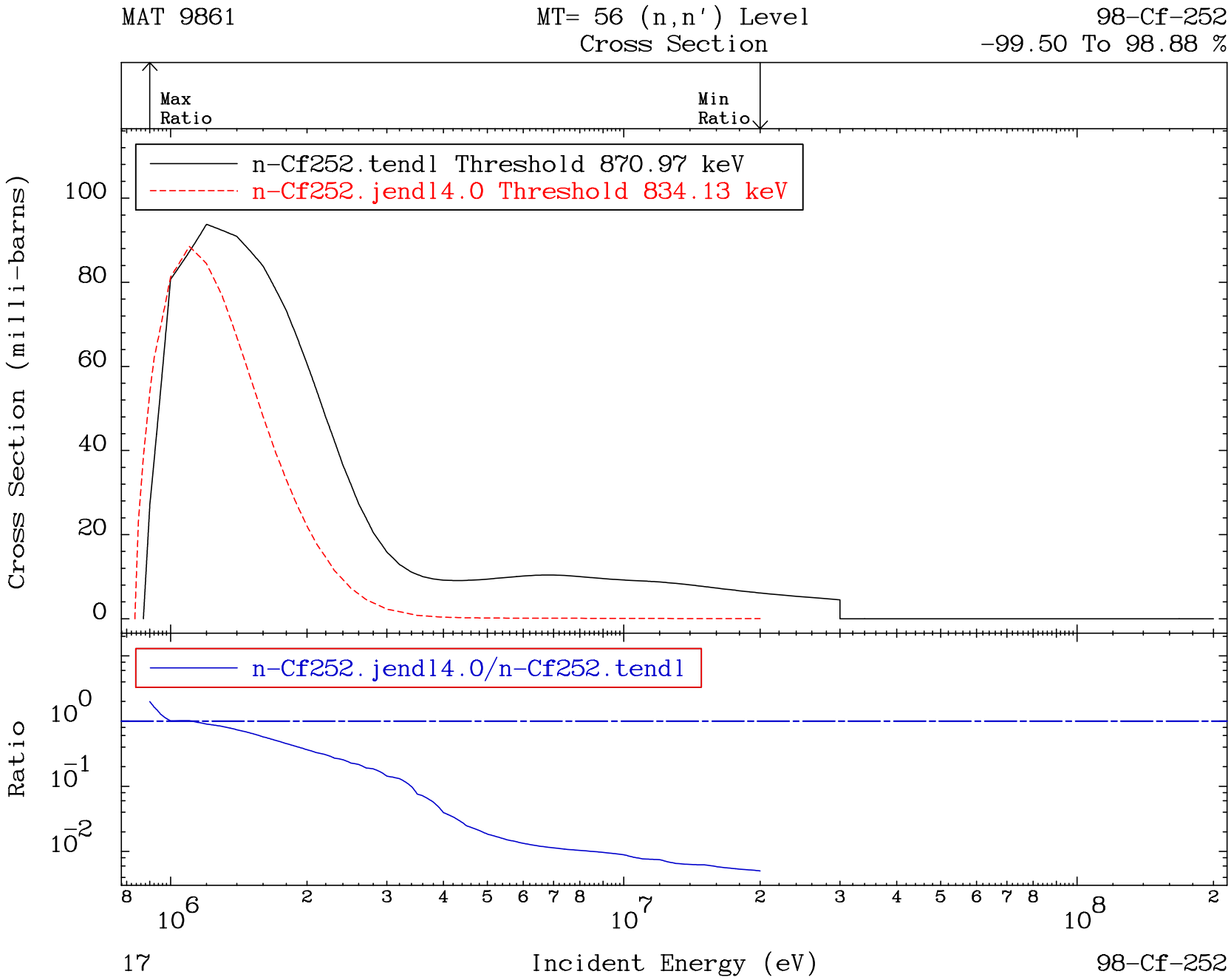

MAT 9861
MT= 51 (n,n') Level
Cross Section
98-Cf-252
-46.64 To 9999. %
Min
Ratio
Max
Ratio
n-Cf252.tendl Threshold 45.903 keV
n-Cf252.jendl4.0 Threshold 45.903 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^2
10^1
10^0
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
98-Cf-252

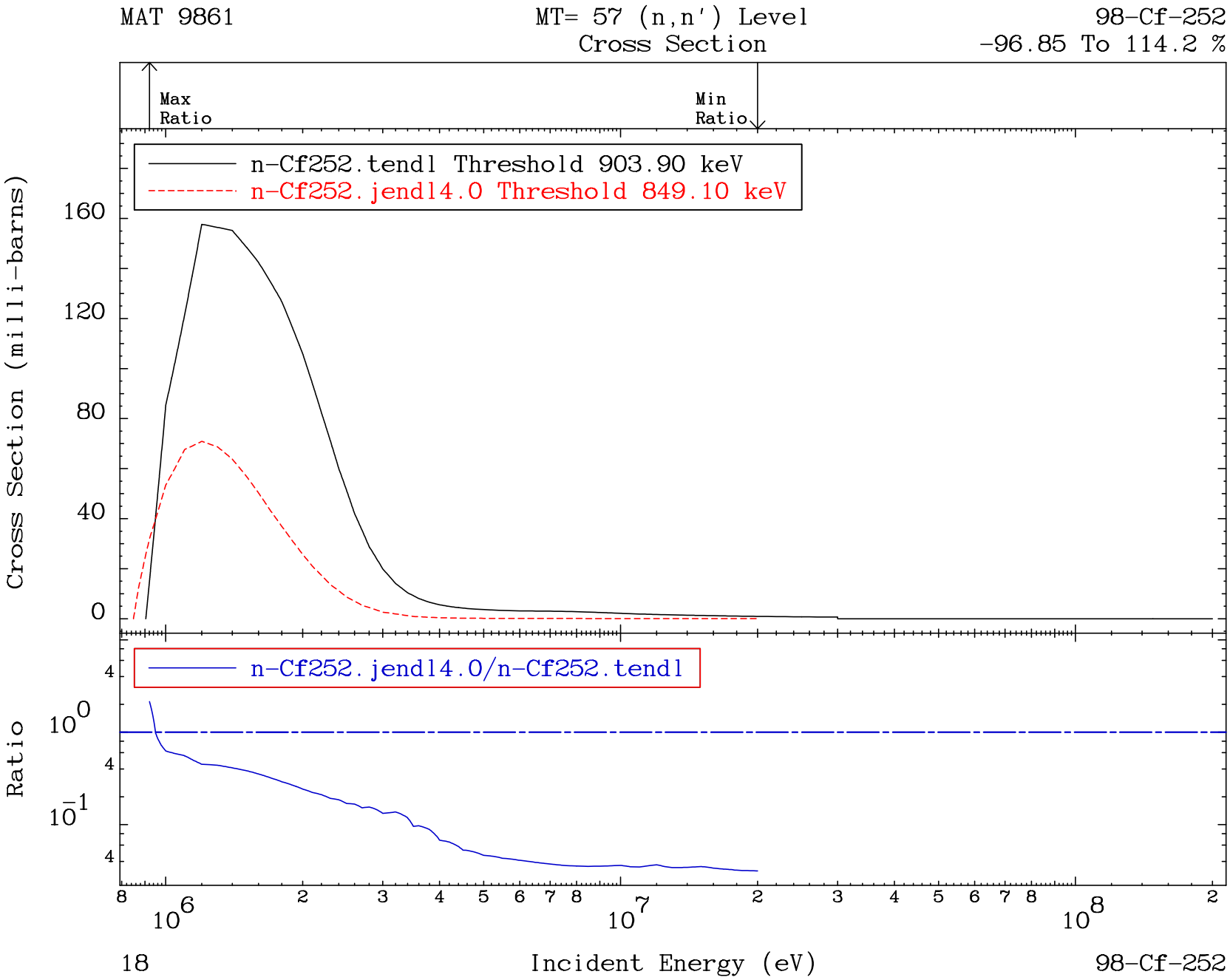

MAT 9861
MT= 52 (n,n') Level
Cross Section
98-Cf-252
-73.08 To 419.4 %
Min
Ratio
Max
Ratio
n-Cf252.tendl Threshold 152.35 keV
n-Cf252.jendl4.0 Threshold 152.35 keV
Cross Section (milli-barns)
800
600
400
200
0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^1
10^0
6
4
6
4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
98-Cf-252

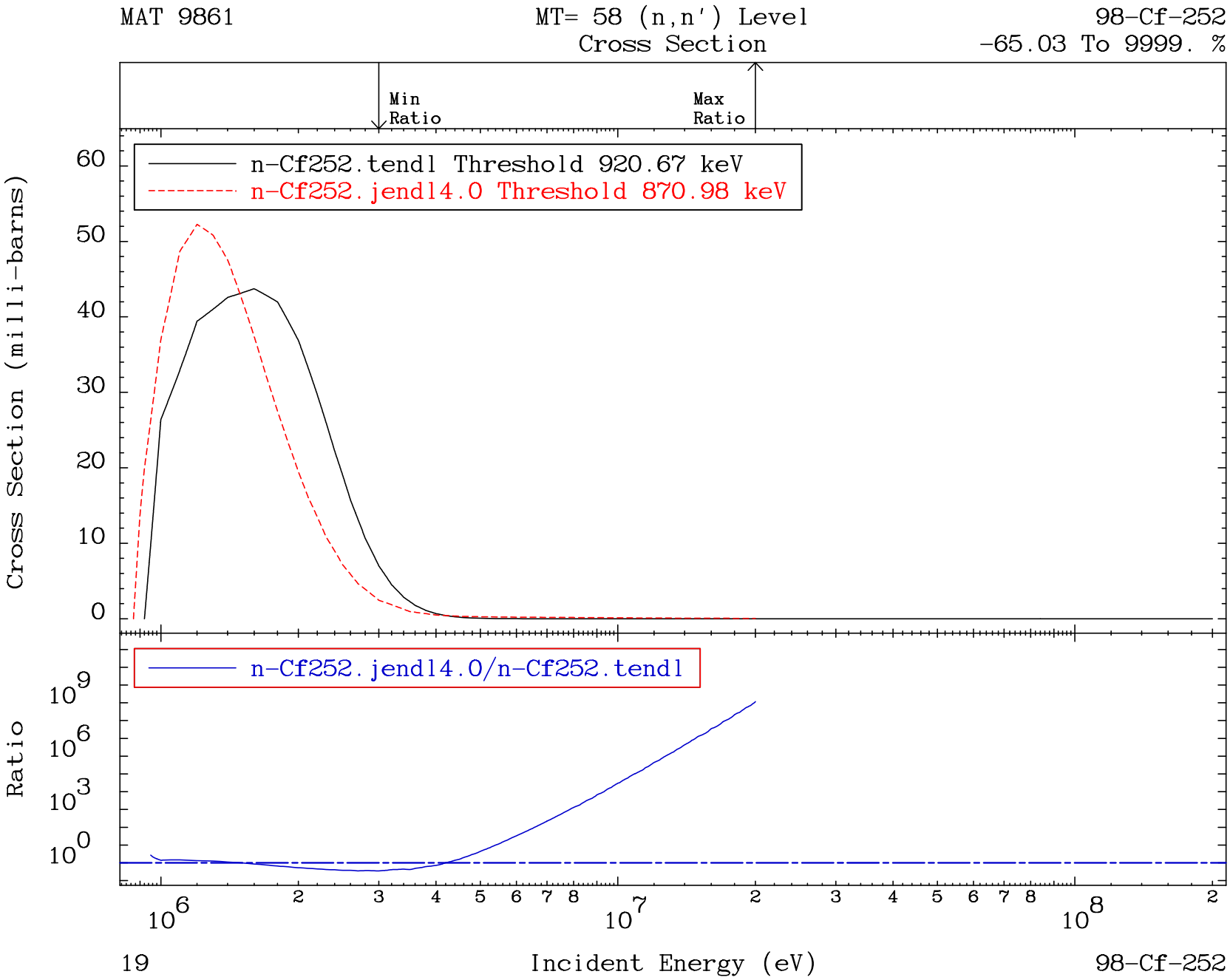

MAT 9861
MT= 53 (n,n') Level
Cross Section
98-Cf-252
-97.42 To 247.2 %
Min
Ratio
Max
Ratio
n-Cf252.tendl Threshold 808.02 keV
n-Cf252.jendl4.0 Threshold 320.48 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^1
10^0
10^{-1}
4
4
4
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
98-Cf-252

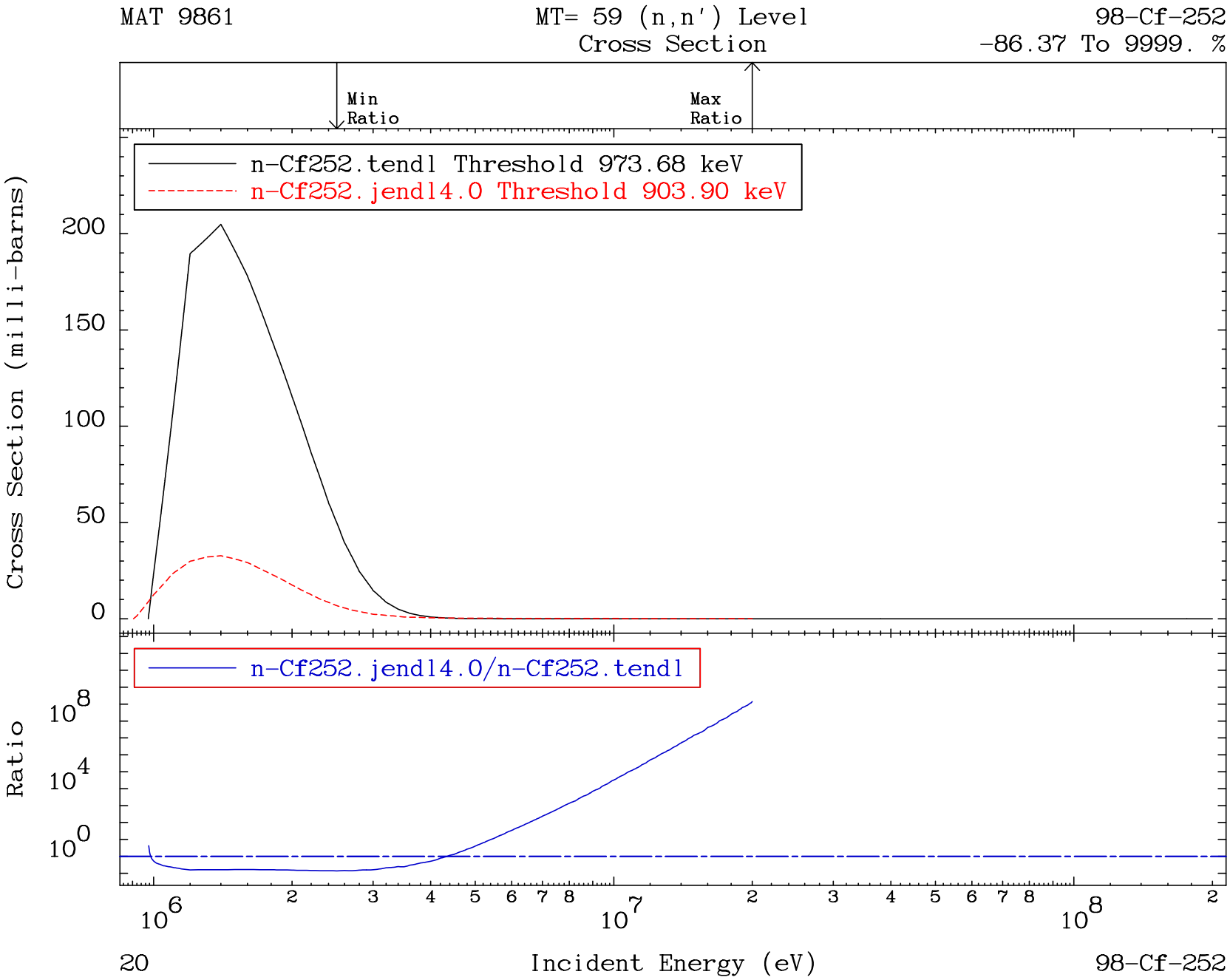

MAT 9861
MT= 54 (n,n') Level
Cross Section
98-Cf-252
-99.99 To 9999. %
Min
Ratio
Max
Ratio
n-Cf252.tendl Threshold 834.12 keV
n-Cf252.jendl4.0 Threshold 549.39 keV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^10
10^5
10^0
10^-5
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
98-Cf-252

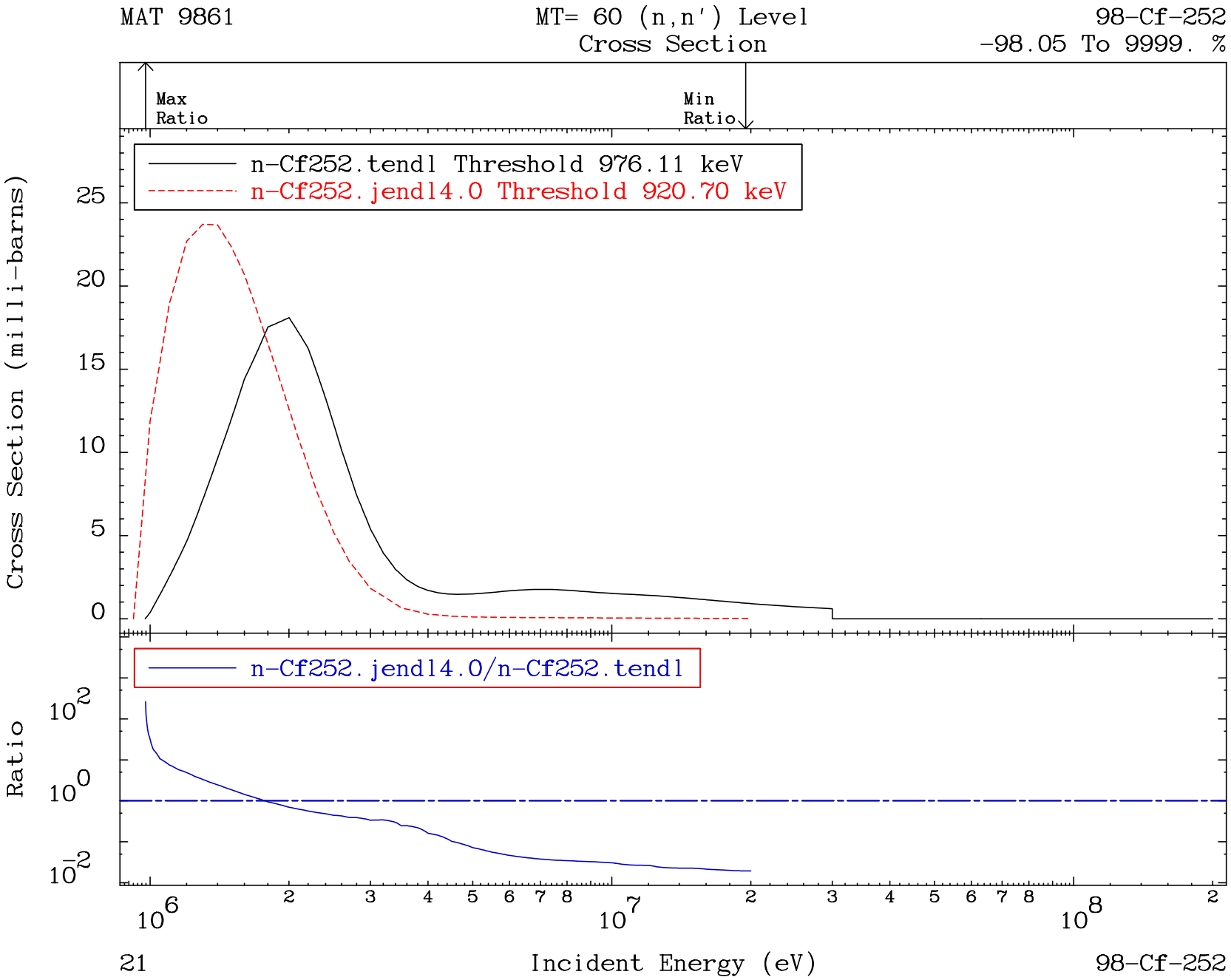

MAT 9861
MT= 55 (n,n') Level
Cross Section
98-Cf-252
-80.19 To 9999. %
Min
Ratio
Max
Ratio
n-Cf252.tendl Threshold 849.08 keV
n-Cf252.jendl4.0 Threshold 808.04 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^12
10^8
10^4
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
98-Cf-252

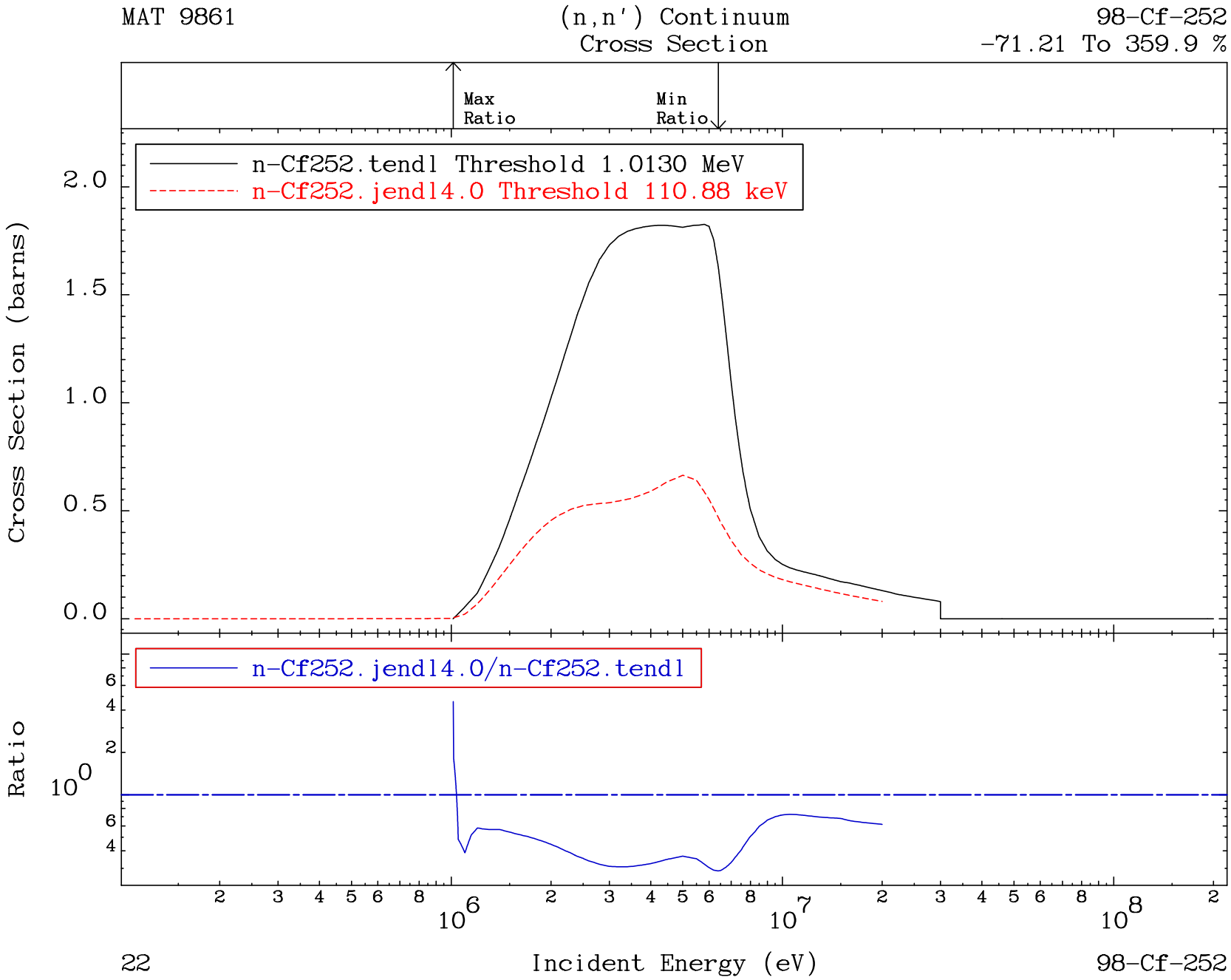

MAT 9861
MT= 56 (n,n') Level
Cross Section
98-Cf-252
-99.50 To 98.88 %
Max
Ratio
Min
Ratio
n-Cf252.tendl Threshold 870.97 keV
n-Cf252.jendl4.0 Threshold 834.13 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^0
10^-1
10^-2
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
98-Cf-252

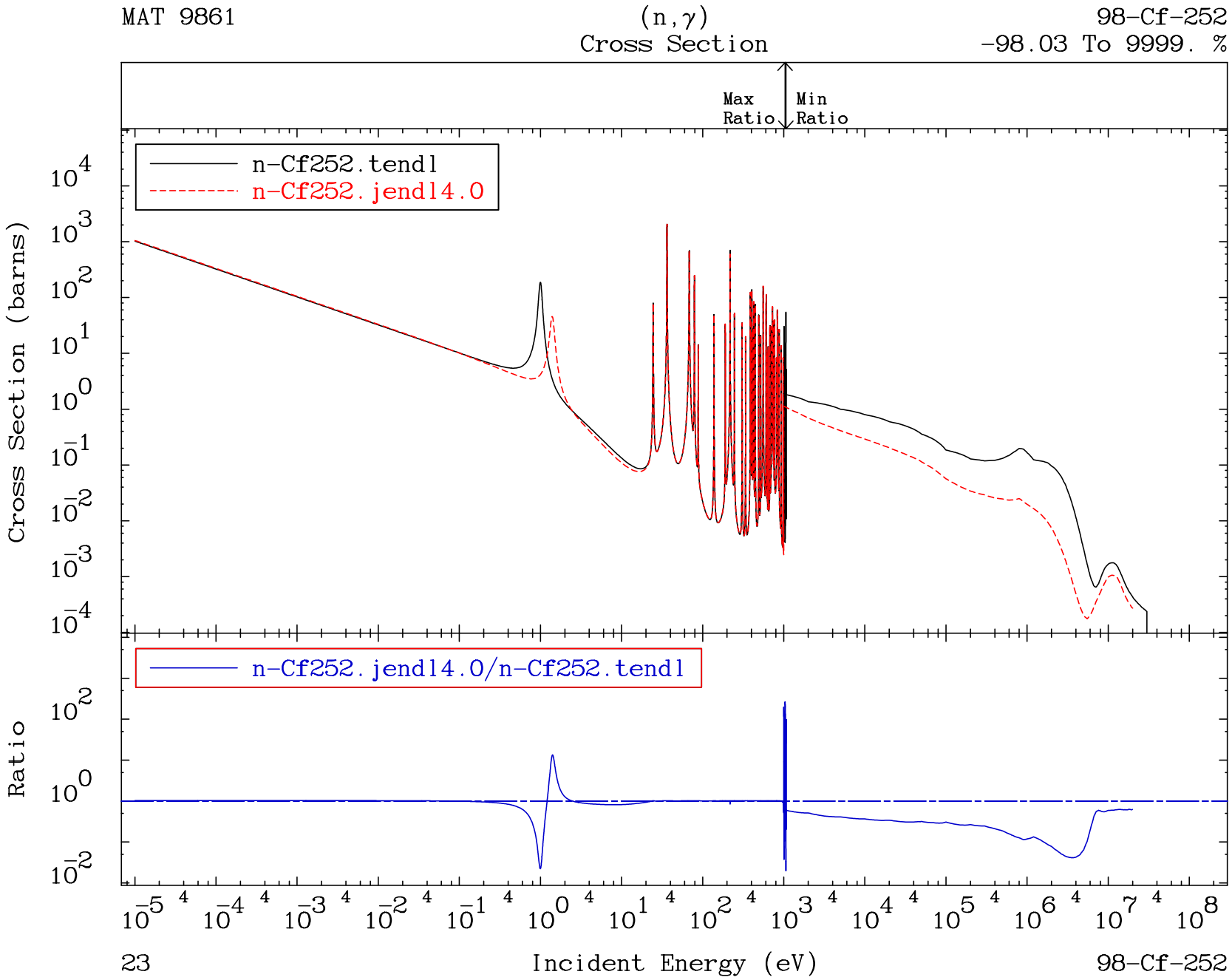

MAT 9861
MT= 57 (n,n') Level
Cross Section
98-Cf-252
-96.85 To 114.2 %
Max
Ratio
Min
Ratio
n-Cf252.tendl Threshold 903.90 keV
n-Cf252.jendl4.0 Threshold 849.10 keV
Cross Section (milli-barns)
160
120
80
40
0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^0
10^{-1}
10^6
10^7
10^8
Incident Energy (eV)
18
98-Cf-252

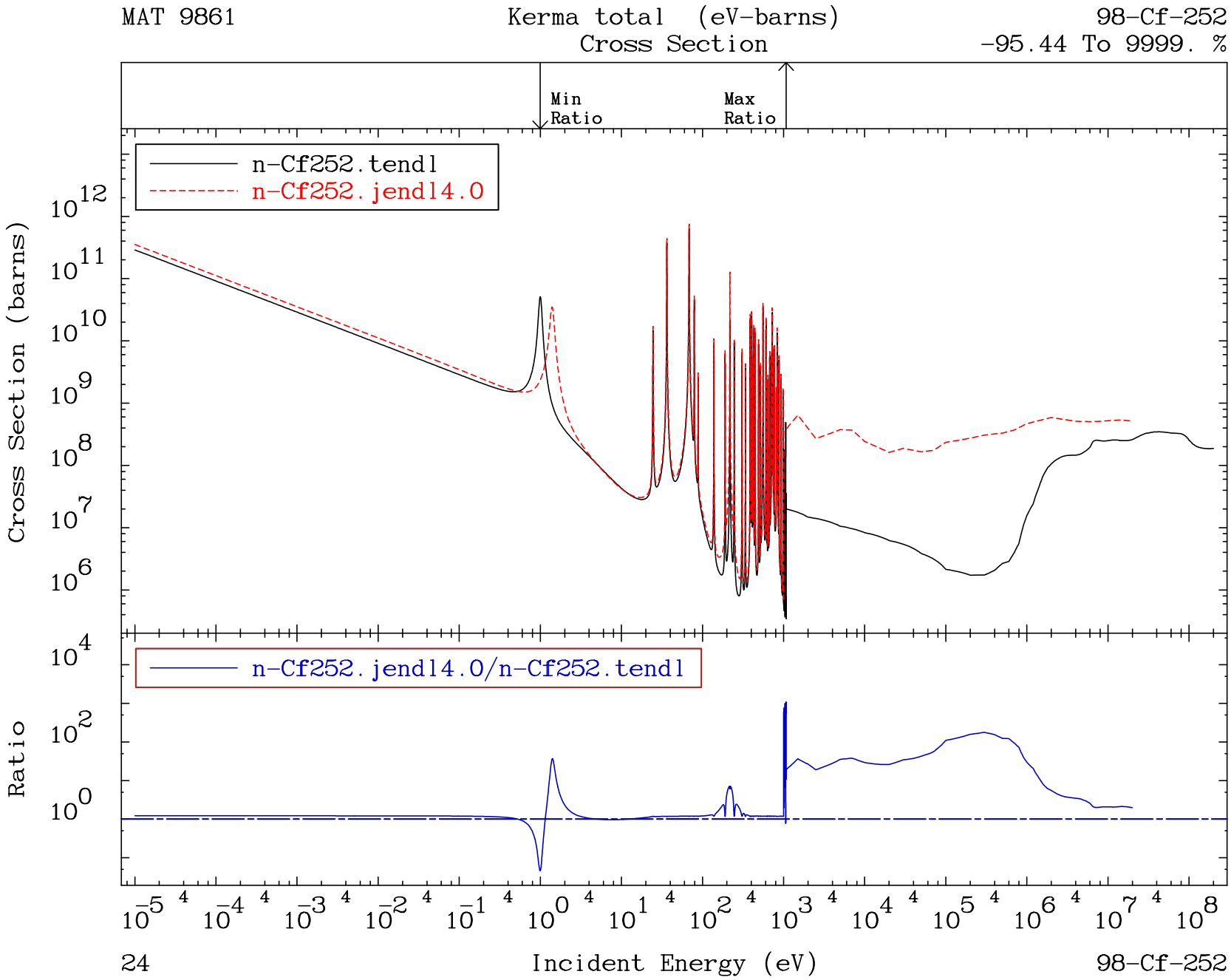

MAT 9861
MT= 58 (n,n') Level
Cross Section
98-Cf-252
-65.03 To 9999. %
Min
Ratio
Max
Ratio
n-Cf252.tendl Threshold 920.67 keV
n-Cf252.jendl4.0 Threshold 870.98 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^9
10^6
10^3
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
19
Incident Energy (eV)
98-Cf-252

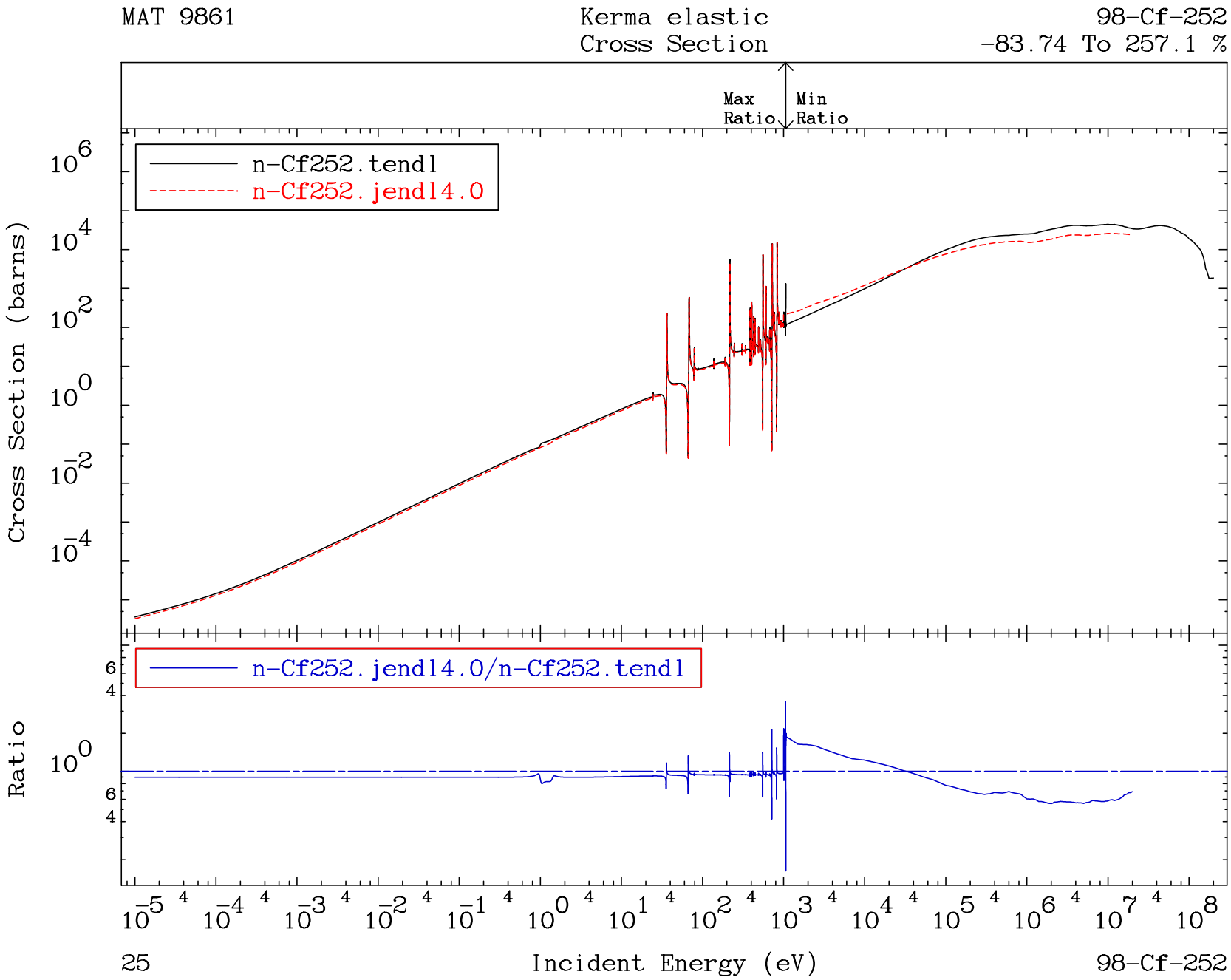

MAT 9861
MT= 59 (n,n') Level
Cross Section
98-Cf-252
-86.37 To 9999. %
Min
Ratio
Max
Ratio
n-Cf252.tendl Threshold 973.68 keV
n-Cf252.jendl4.0 Threshold 903.90 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^8
10^4
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
98-Cf-252

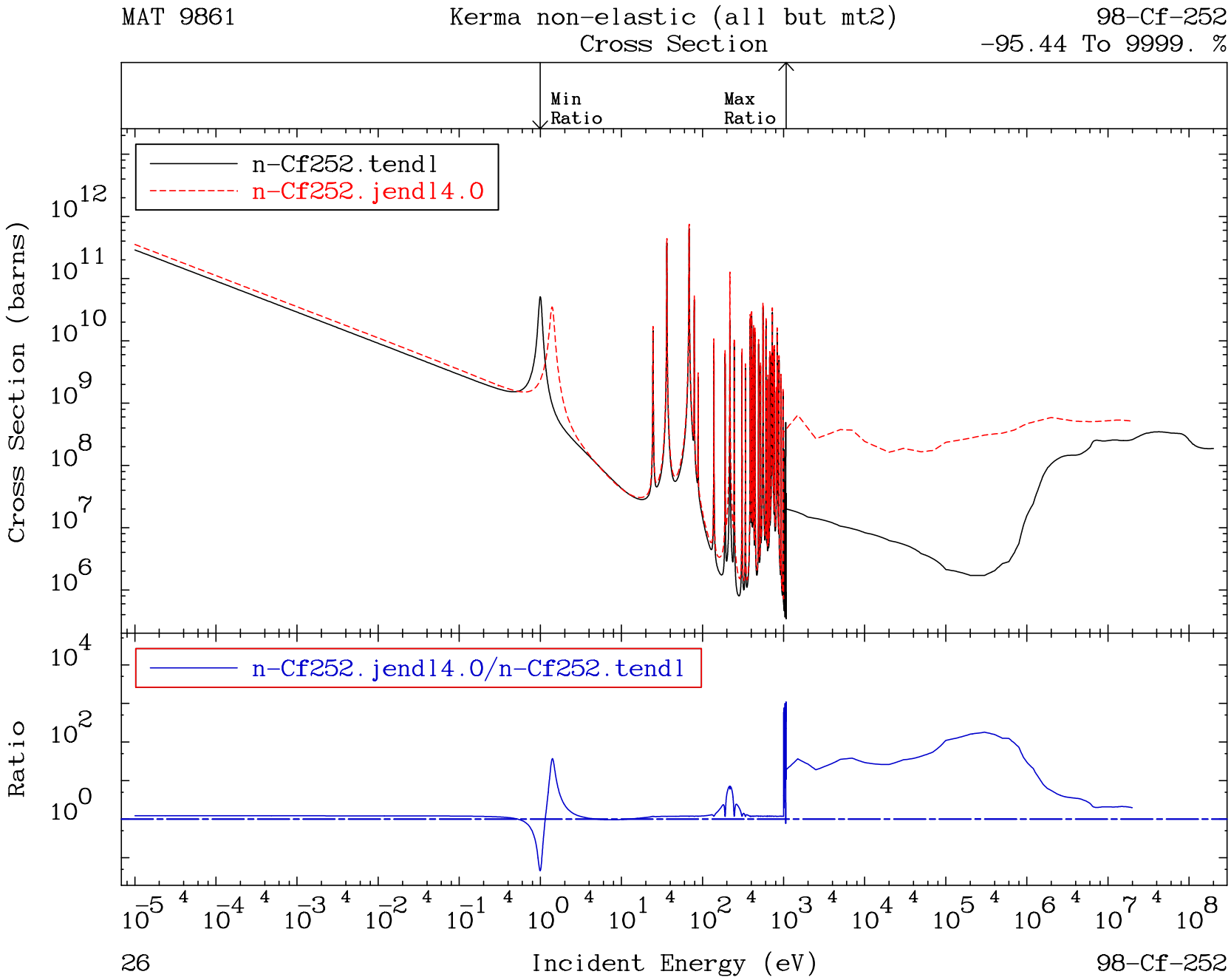

MAT 9861
MT= 60 (n,n') Level
Cross Section
98-Cf-252
-98.05 To 9999. %
Max Ratio
Min Ratio
n-Cf252.tendl Threshold 976.11 keV
n-Cf252.jendl4.0 Threshold 920.70 keV
Cross Section (milli-barns)
0
5
10
15
20
25
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^2
10^0
10^-2
10^6
10^7
10^8
21
Incident Energy (eV)
98-Cf-252

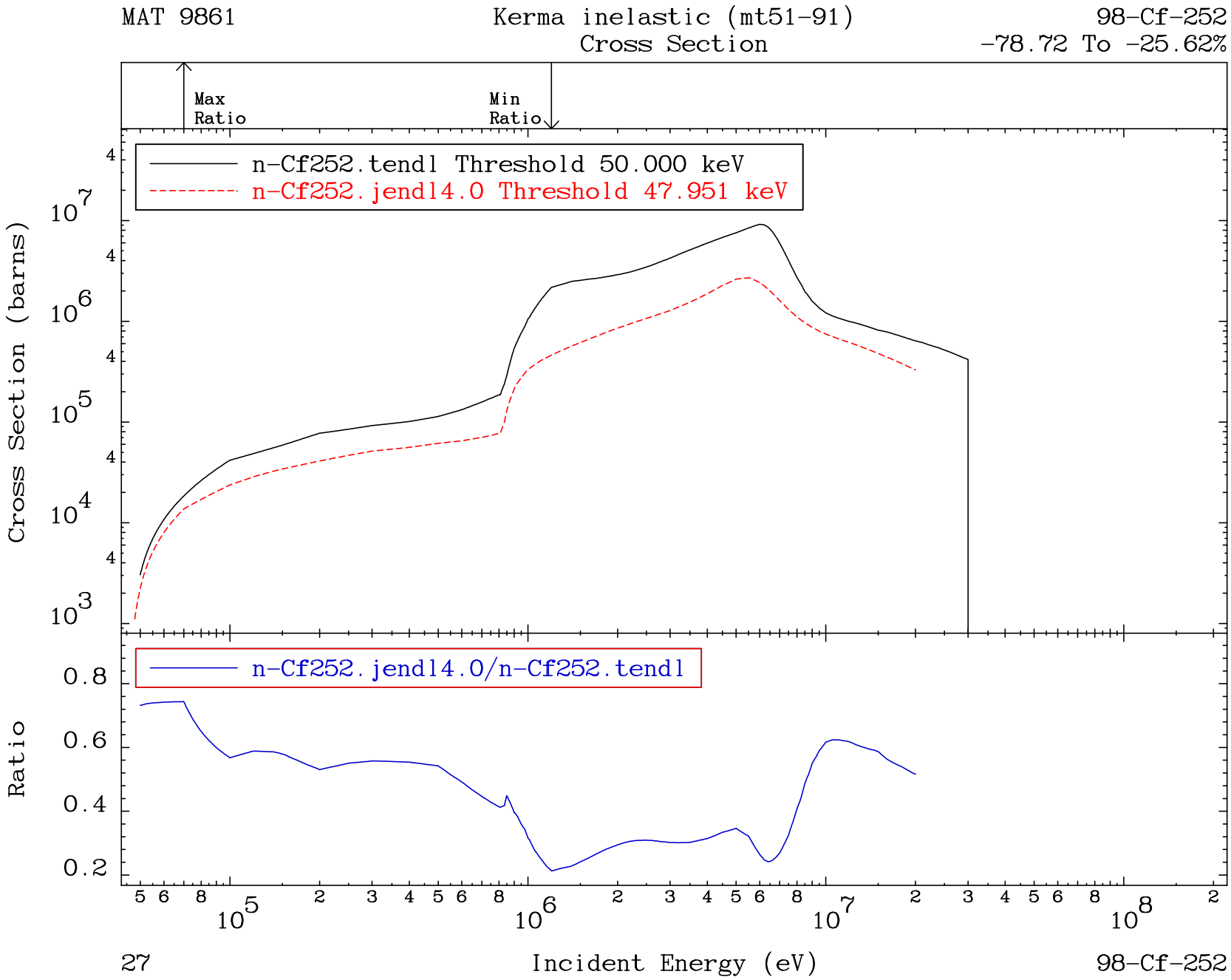

MAT 9861
(n,n') Continuum
Cross Section
98-Cf-252
-71.21 To 359.9 %
Max
Ratio
Min
Ratio
n-Cf252.tendl Threshold 1.0130 MeV
n-Cf252.jendl4.0 Threshold 110.88 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
10^0
6
4
2
6
4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
22
Incident Energy (eV)
98-Cf-252

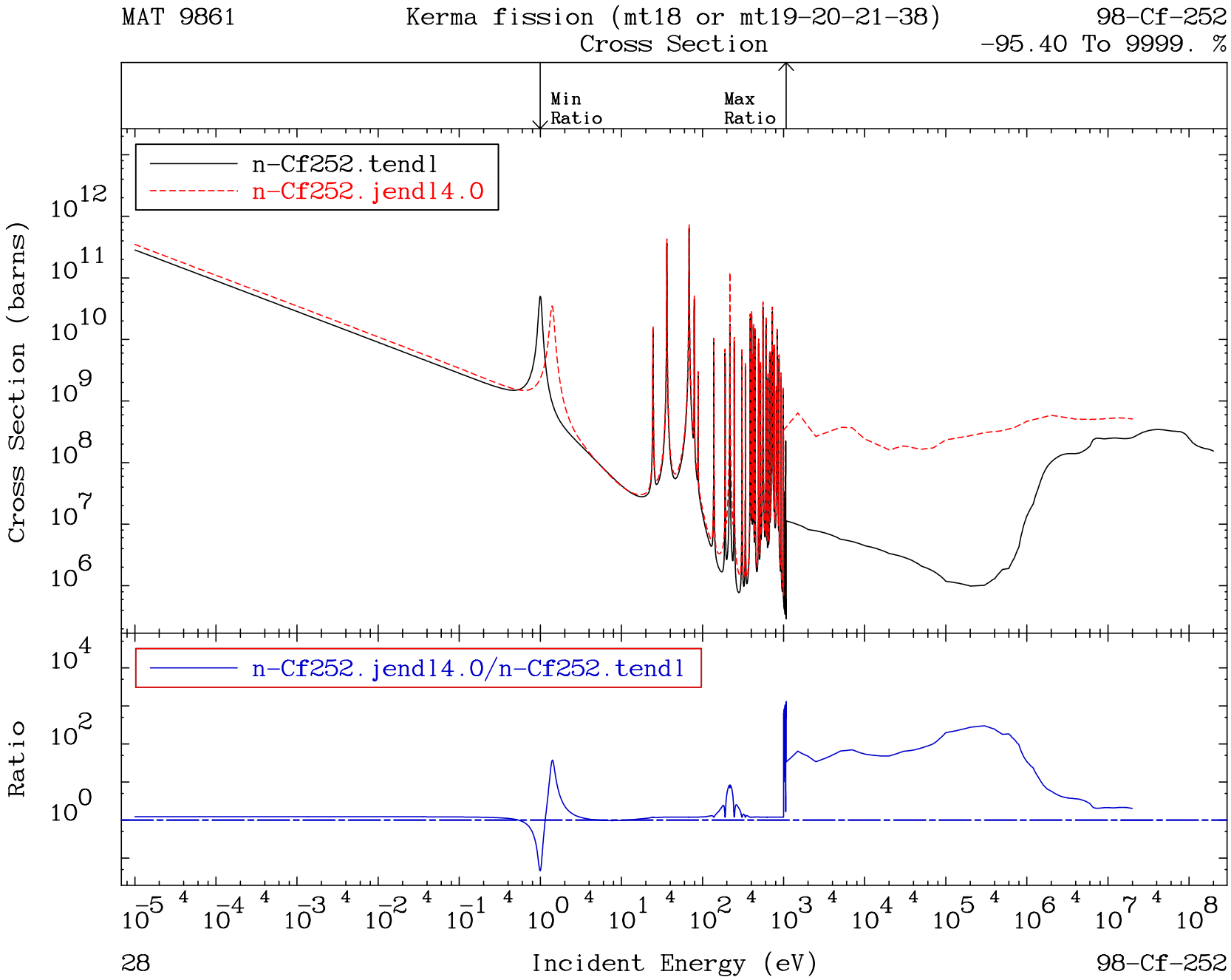

MAT 9861
(n,γ)
Cross Section
98-Cf-252
-98.03 To 9999. %
Max Ratio
Min Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
23
Incident Energy (eV)
98-Cf-252

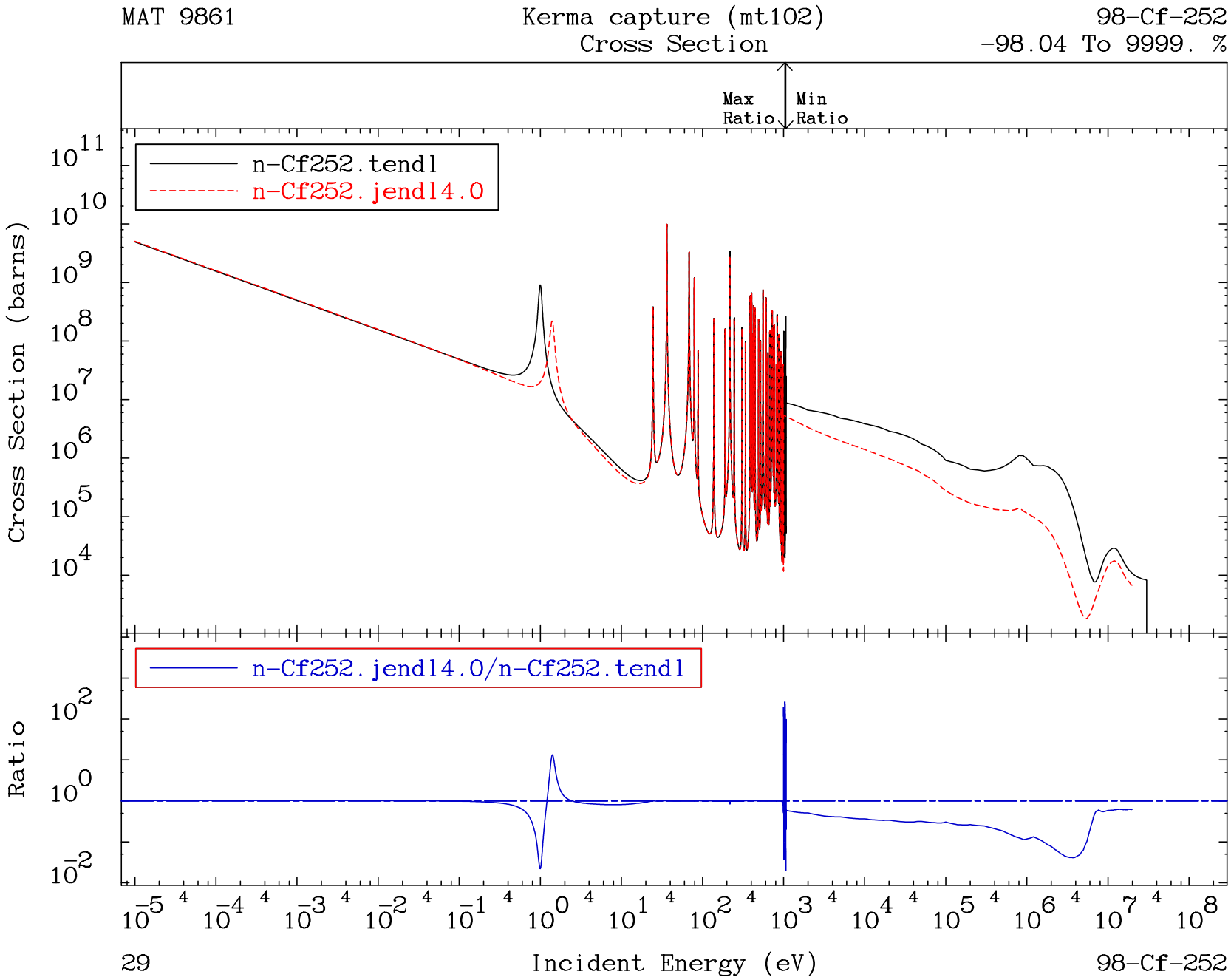

MAT 9861
Kerma total (eV-barns)
Cross Section
98-Cf-252
-95.44 To 9999. %
Min Ratio
Max Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
24
98-Cf-252

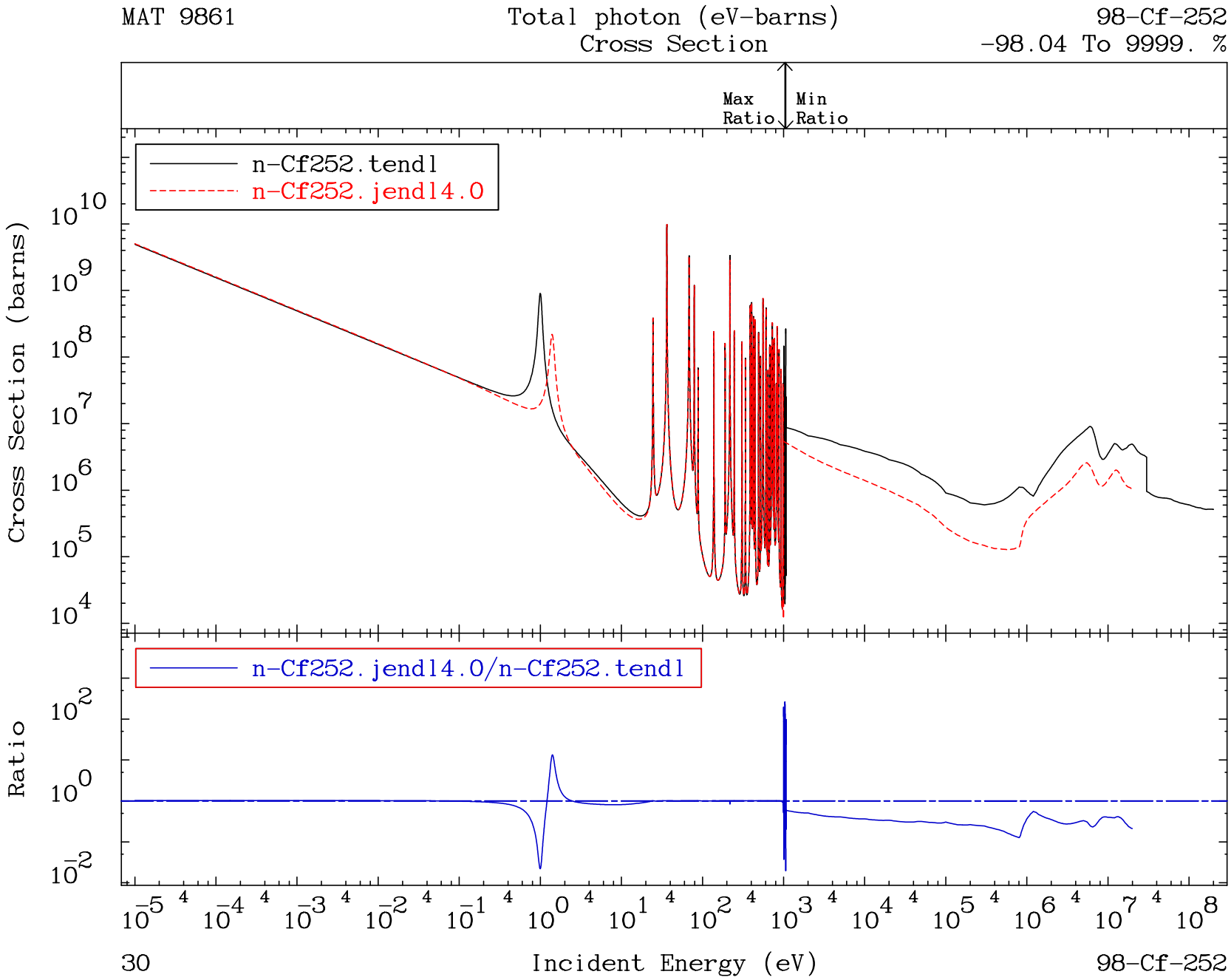

MAT 9861
Kerma elastic
Cross Section
98-Cf-252
-83.74 To 257.1 %
Max Ratio
Min Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
25
98-Cf-252

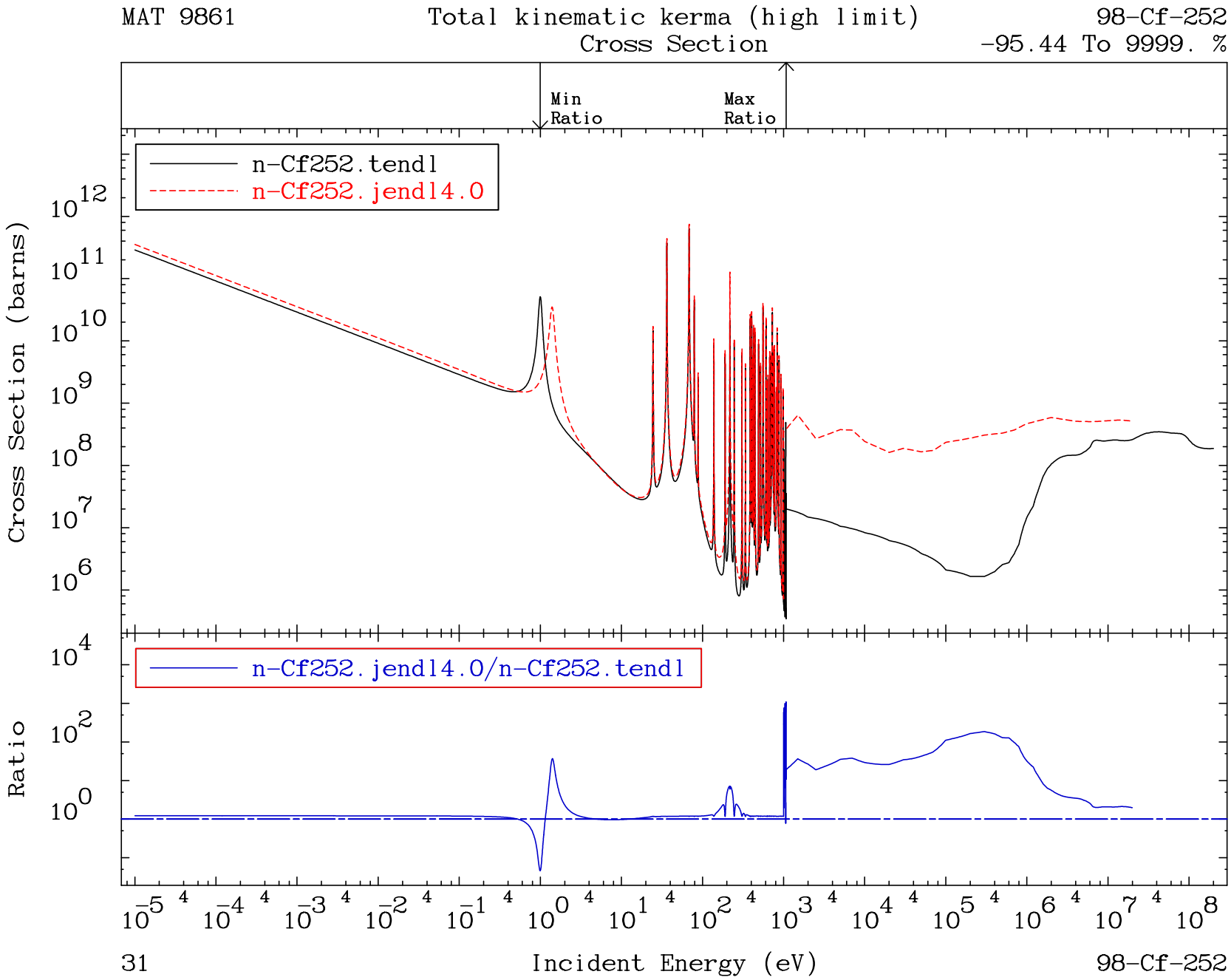

MAT 9861
Kerma non-elastic (all but mt2)
Cross Section
98-Cf-252
-95.44 To 9999. %
Min Ratio
Max Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
26
98-Cf-252

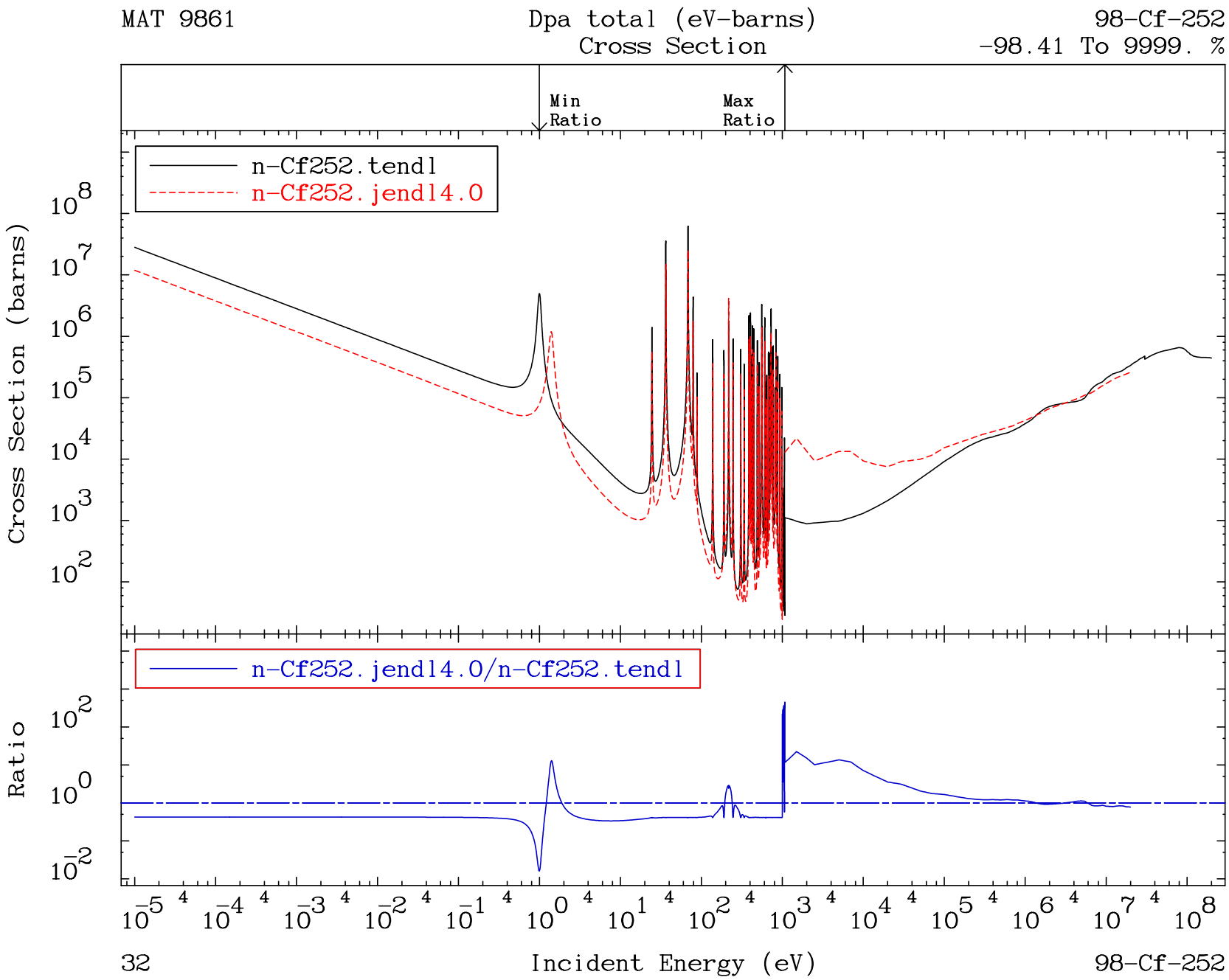

MAT 9861
Kerma inelastic (mt51-91)
Cross Section
98-Cf-252
-78.72 To -25.62%
Max Ratio
Min Ratio
n-Cf252.tendl Threshold 50.000 keV
n-Cf252.jendl4.0 Threshold 47.951 keV
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
27
98-Cf-252

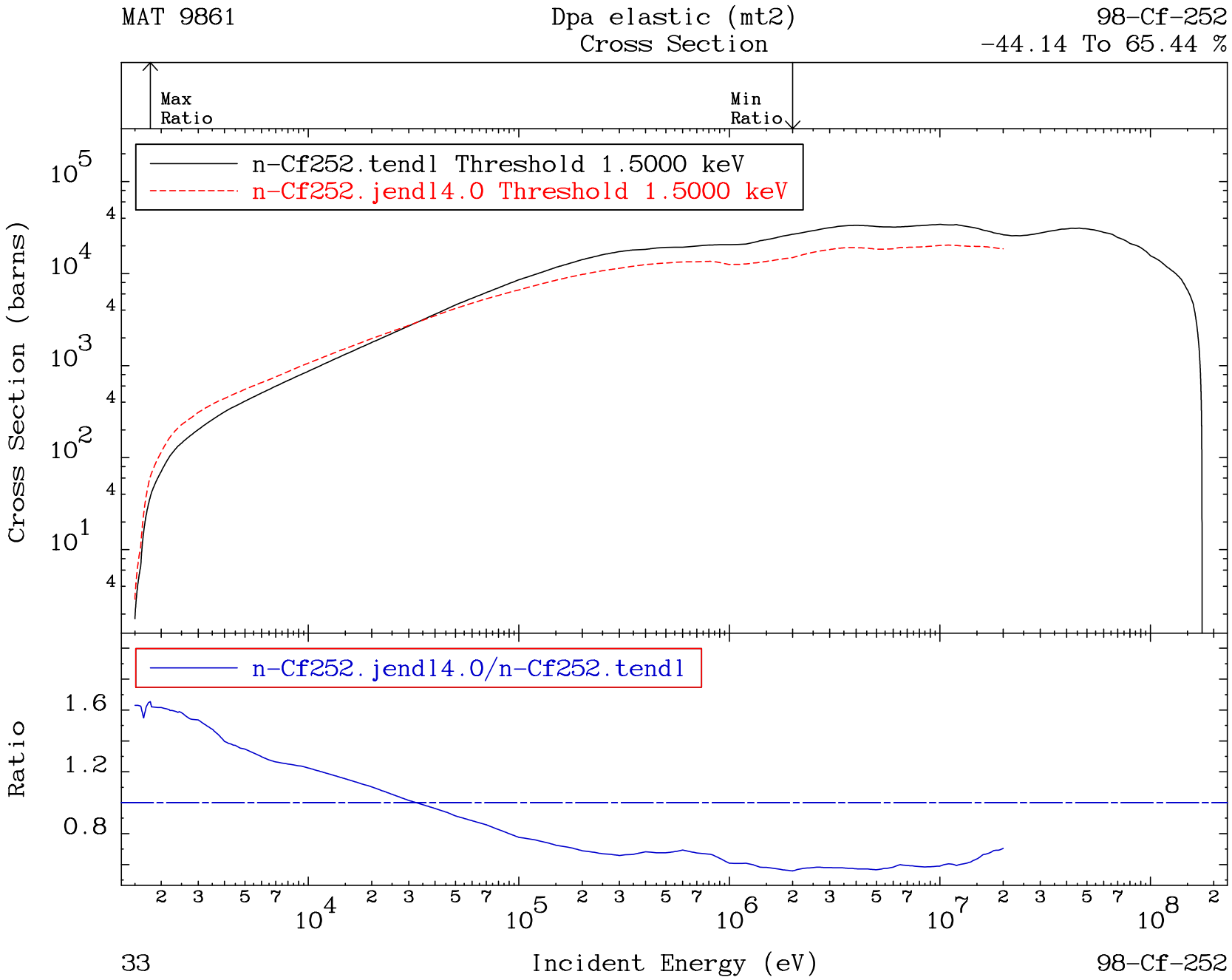

MAT 9861
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
98-Cf-252
-95.40 To 9999. %
Min Ratio
Max Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
28
98-Cf-252

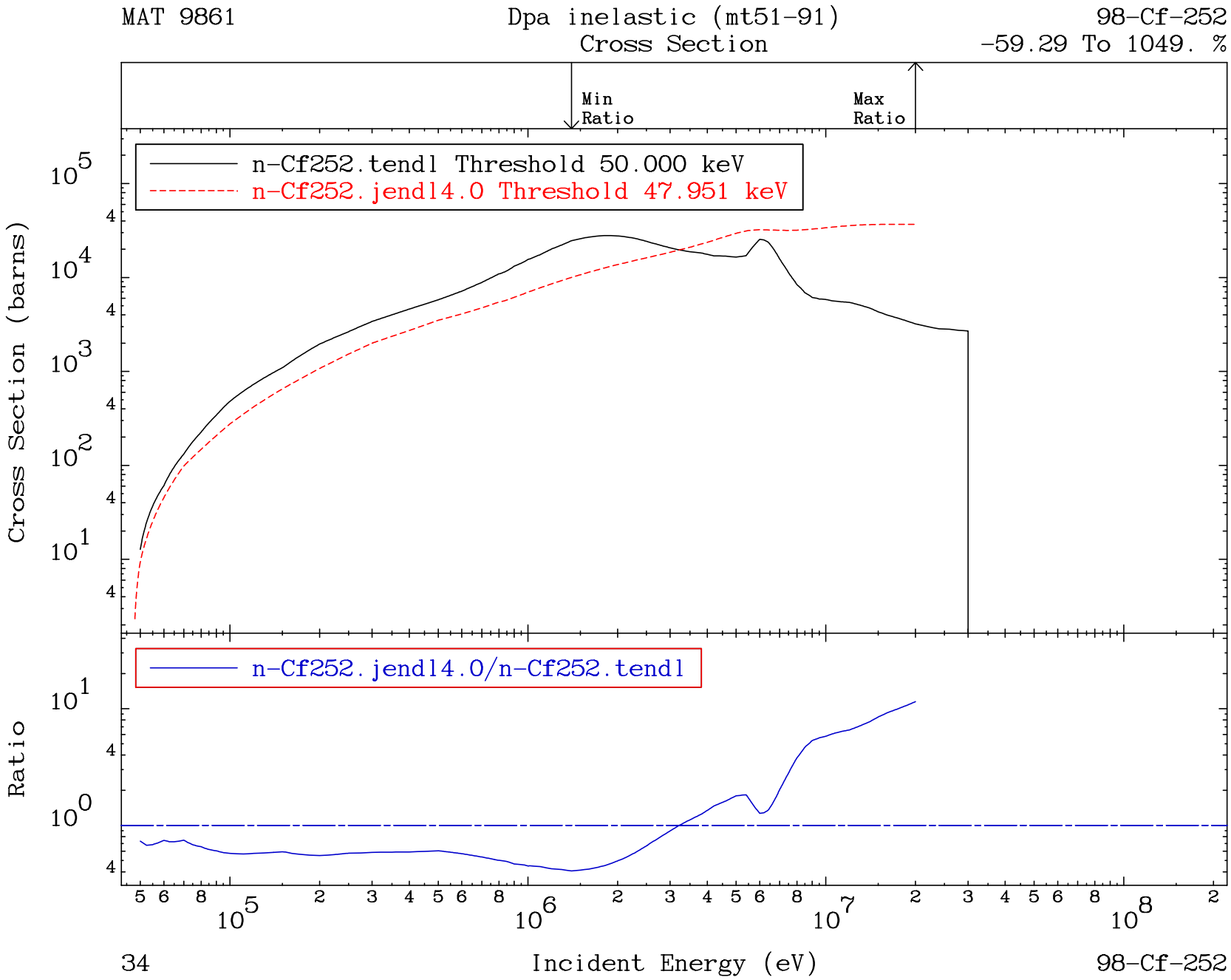

MAT 9861
Kerma capture (mt102)
Cross Section
98-Cf-252
-98.04 To 9999. %
Max Ratio
Min Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
29
Incident Energy (eV)
98-Cf-252

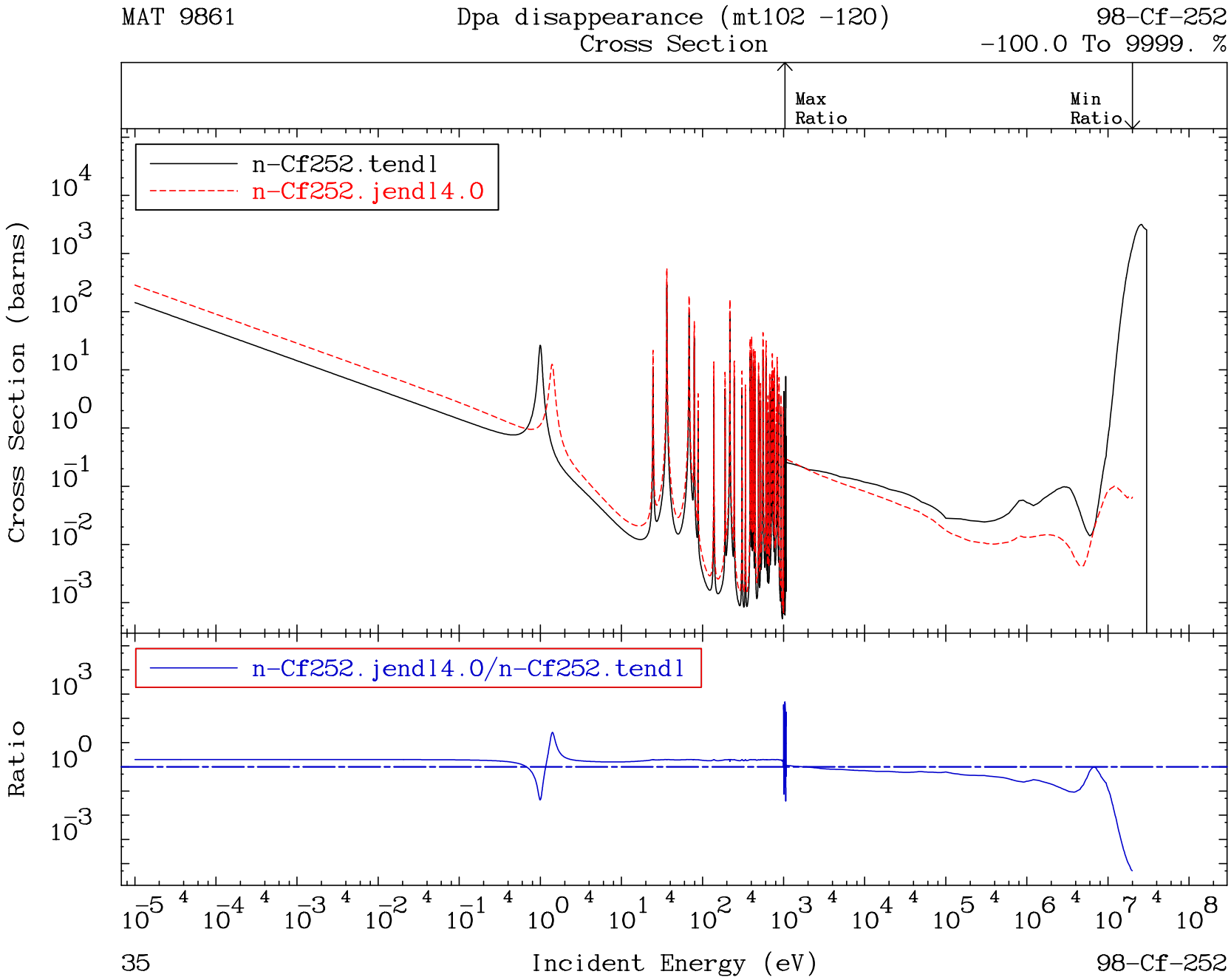

MAT 9861
Total photon (eV-barns)
Cross Section
98-Cf-252
-98.04 To 9999. %
Max Ratio
Min Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
30
98-Cf-252


MAT 9861
Total kinematic kerma (high limit)
Cross Section
98-Cf-252
-95.44 To 9999. %
Min Ratio
Max Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
31
98-Cf-252


MAT 9861
Dpa total (eV-barns)
Cross Section
98-Cf-252
-98.41 To 9999. %
Min Ratio
Max Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
32
98-Cf-252


MAT 9861
Dpa elastic (mt2)
Cross Section
98-Cf-252
-44.14 To 65.44 %
Max Ratio
Min Ratio
n-Cf252.tendl Threshold 1.5000 keV
n-Cf252.jendl4.0 Threshold 1.5000 keV
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
33
98-Cf-252


MAT 9861
Dpa inelastic (mt51-91)
Cross Section
98-Cf-252
-59.29 To 1049. %
Min Ratio
Max Ratio
n-Cf252.tendl Threshold 50.000 keV
n-Cf252.jendl4.0 Threshold 47.951 keV
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
34
98-Cf-252


MAT 9861
Dpa disappearance (mt102 -120)
Cross Section
98-Cf-252
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cf252.tendl
n-Cf252.jendl4.0
Cross Section (barns)
n-Cf252.jendl4.0/n-Cf252.tendl
Ratio
Incident Energy (eV)
35
98-Cf-252