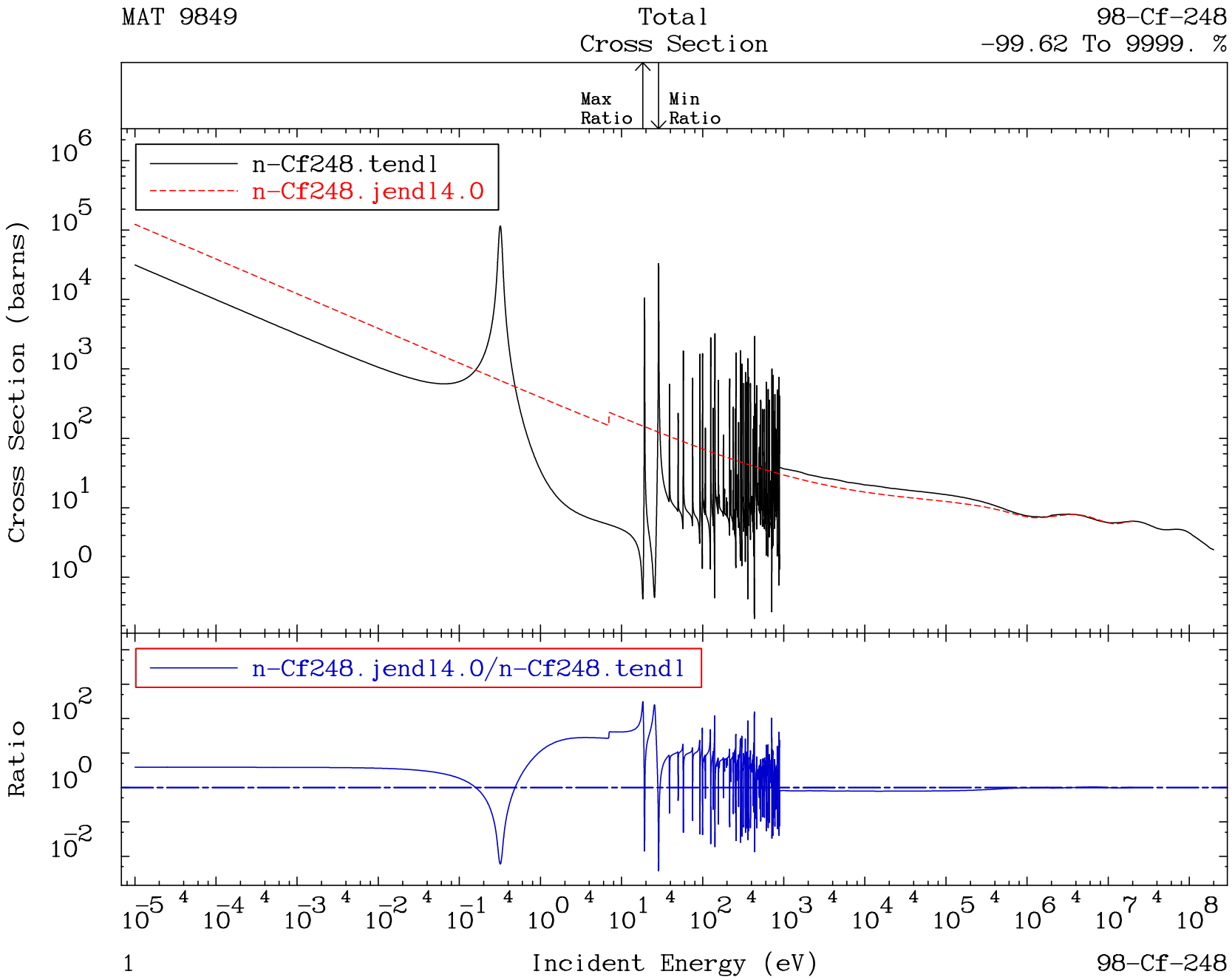
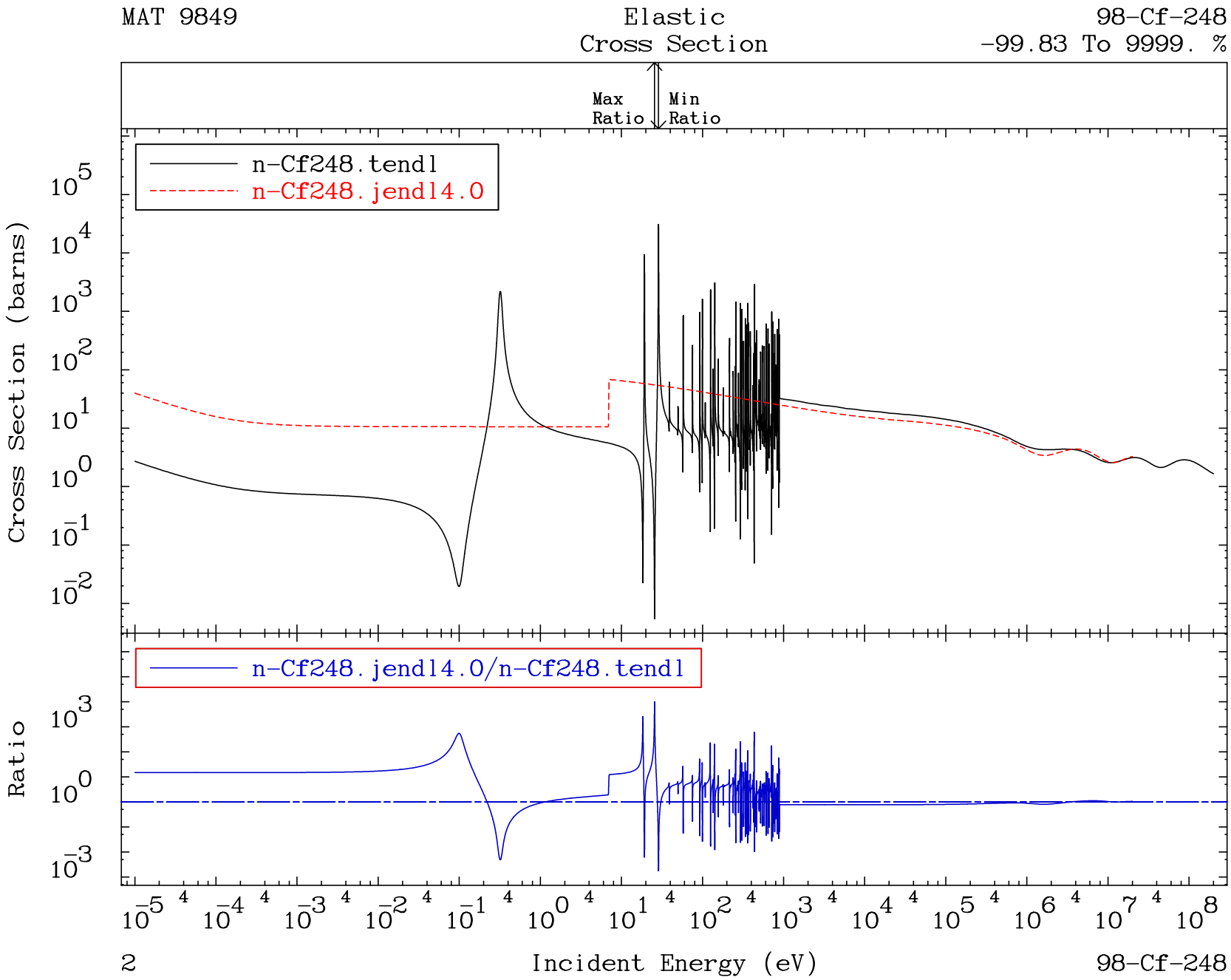
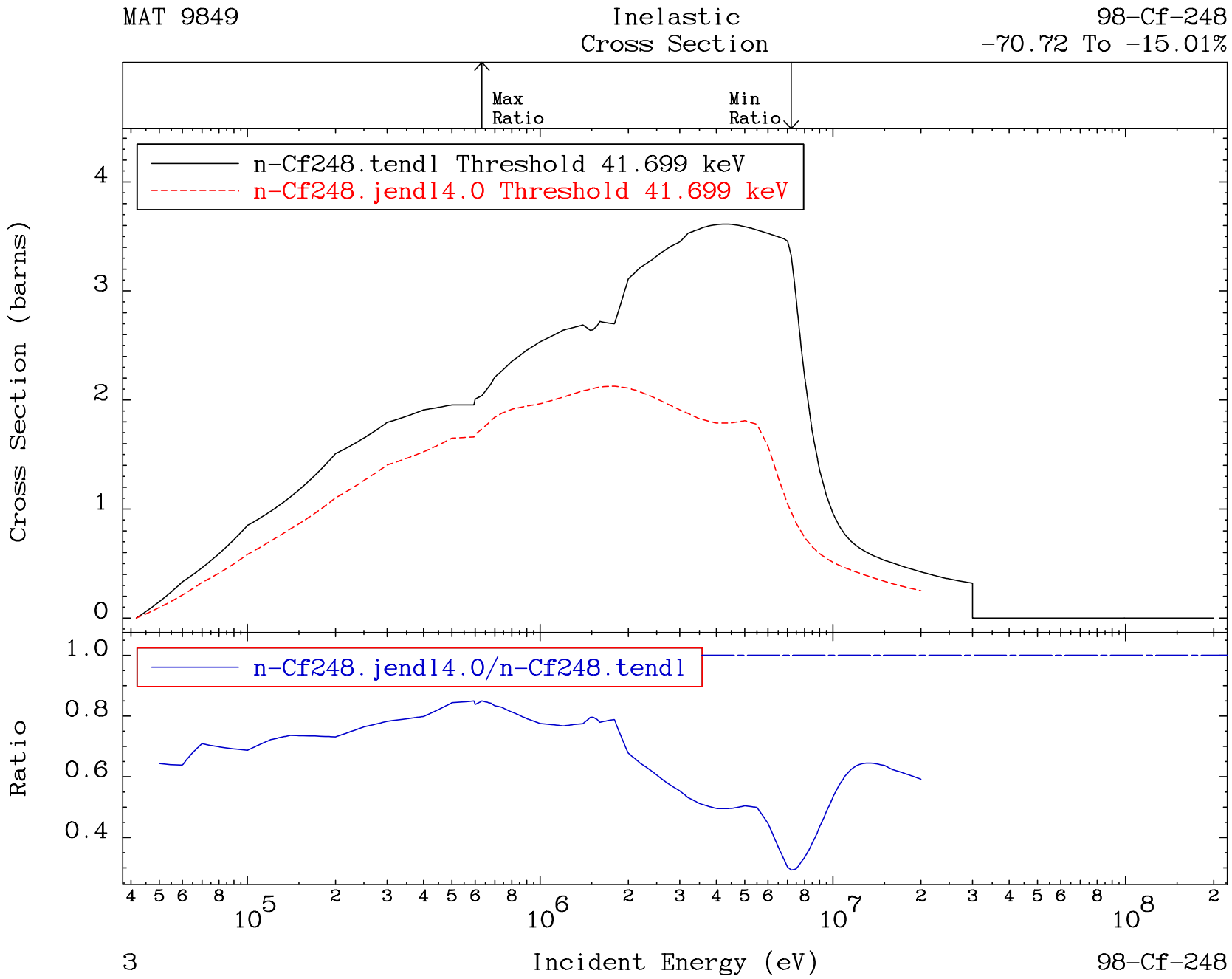
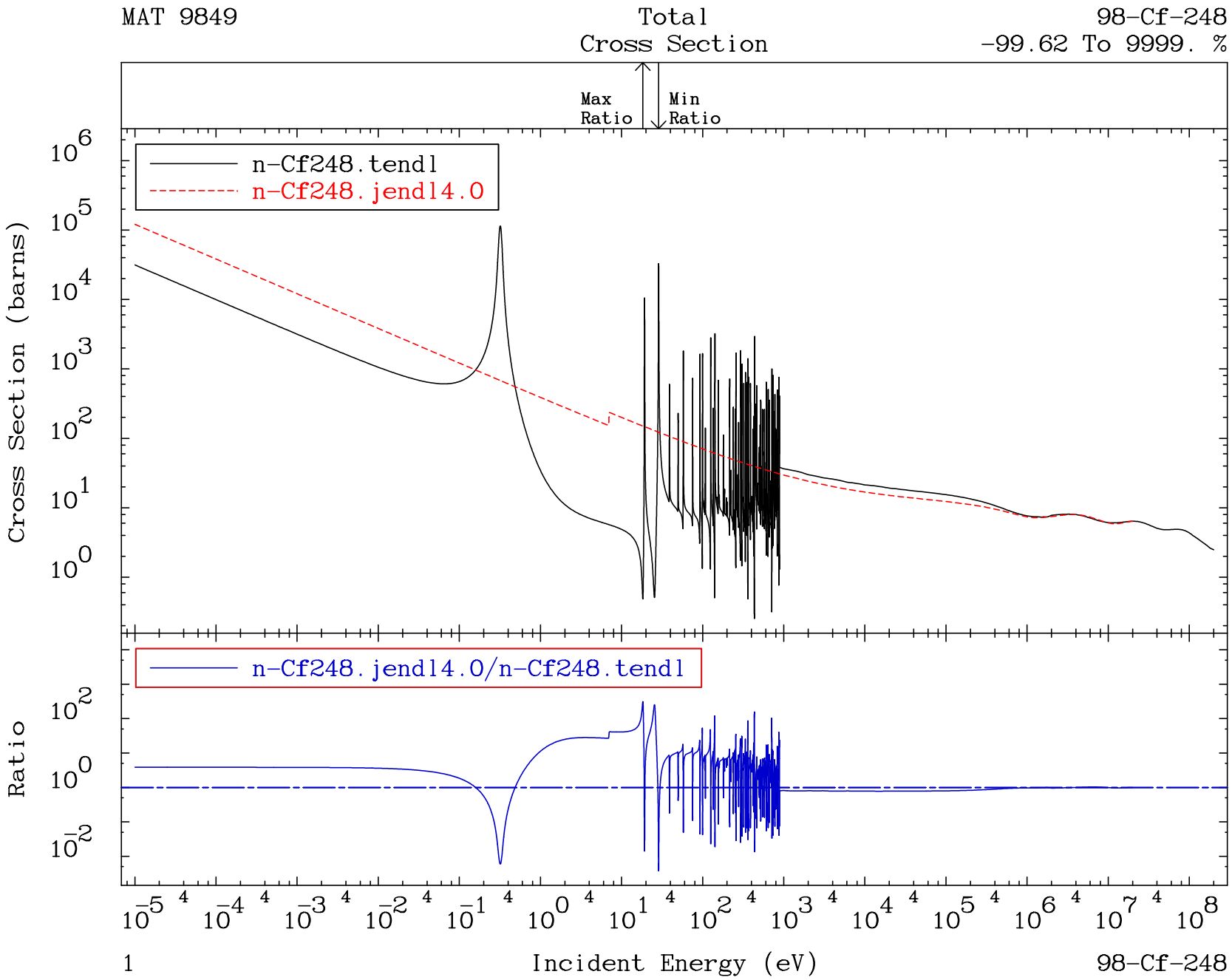
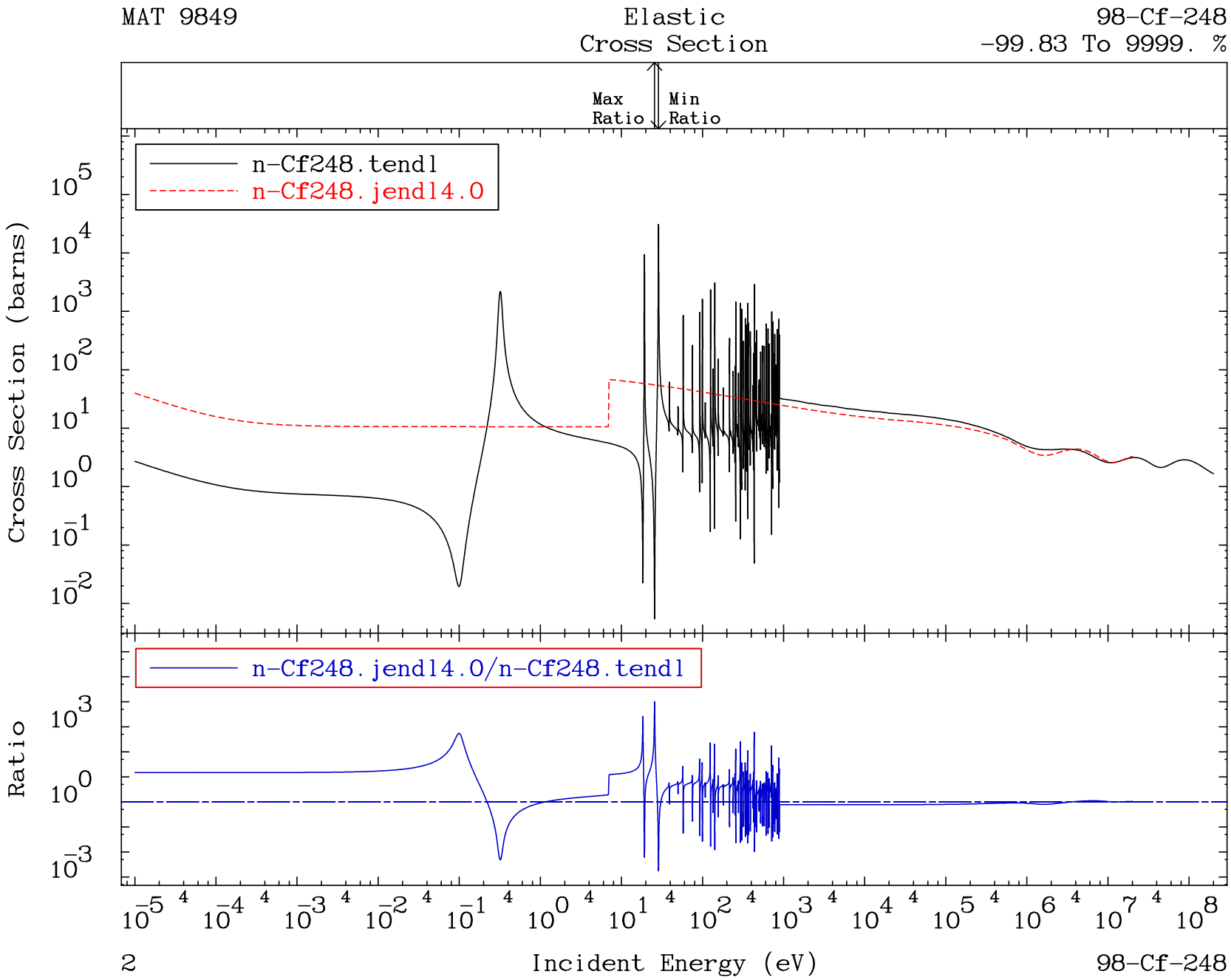
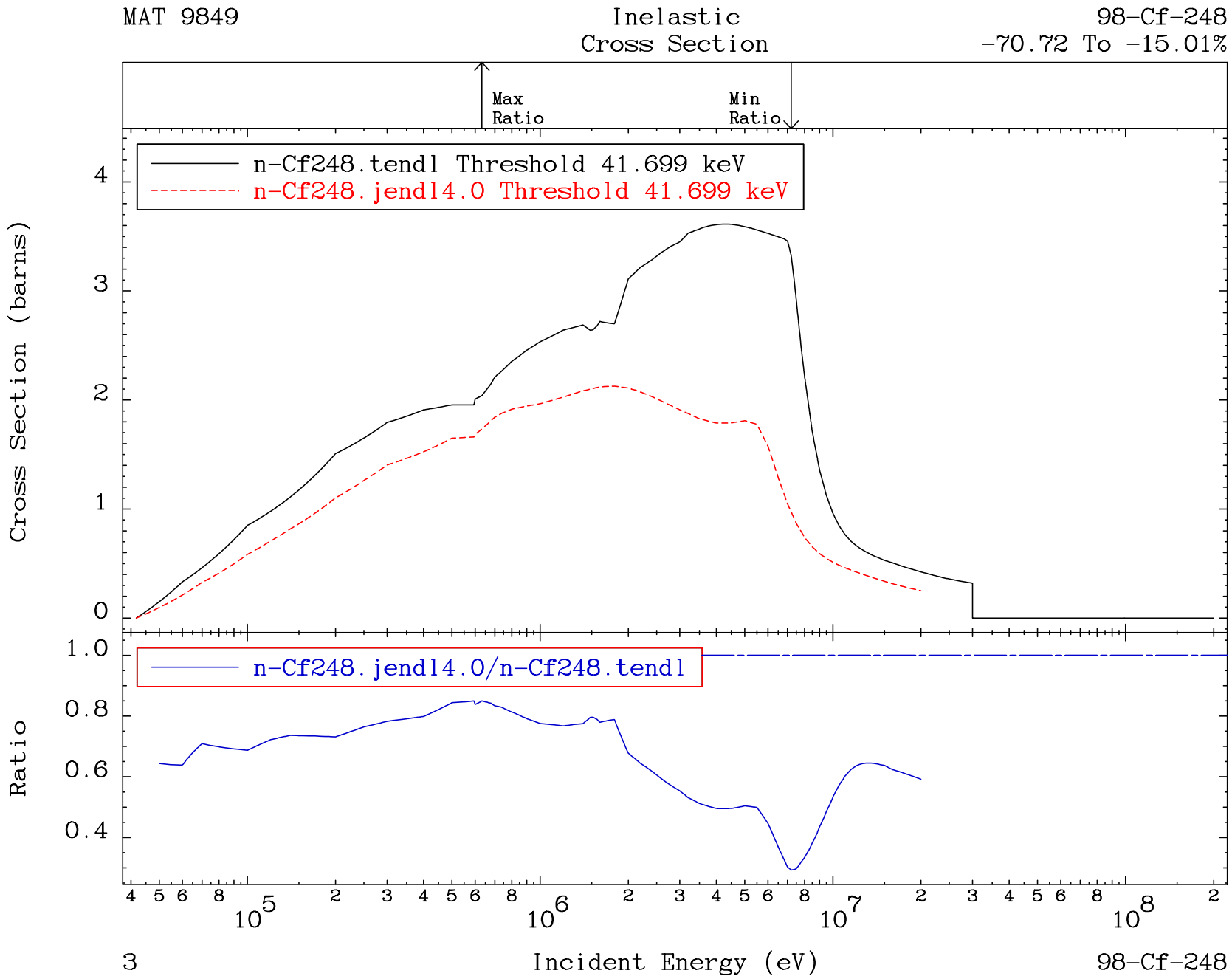

MAT 9849
Total
Cross Section
98-Cf-248
-99.62 To 9999. %
Max
Ratio
Min
Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
1
98-Cf-248

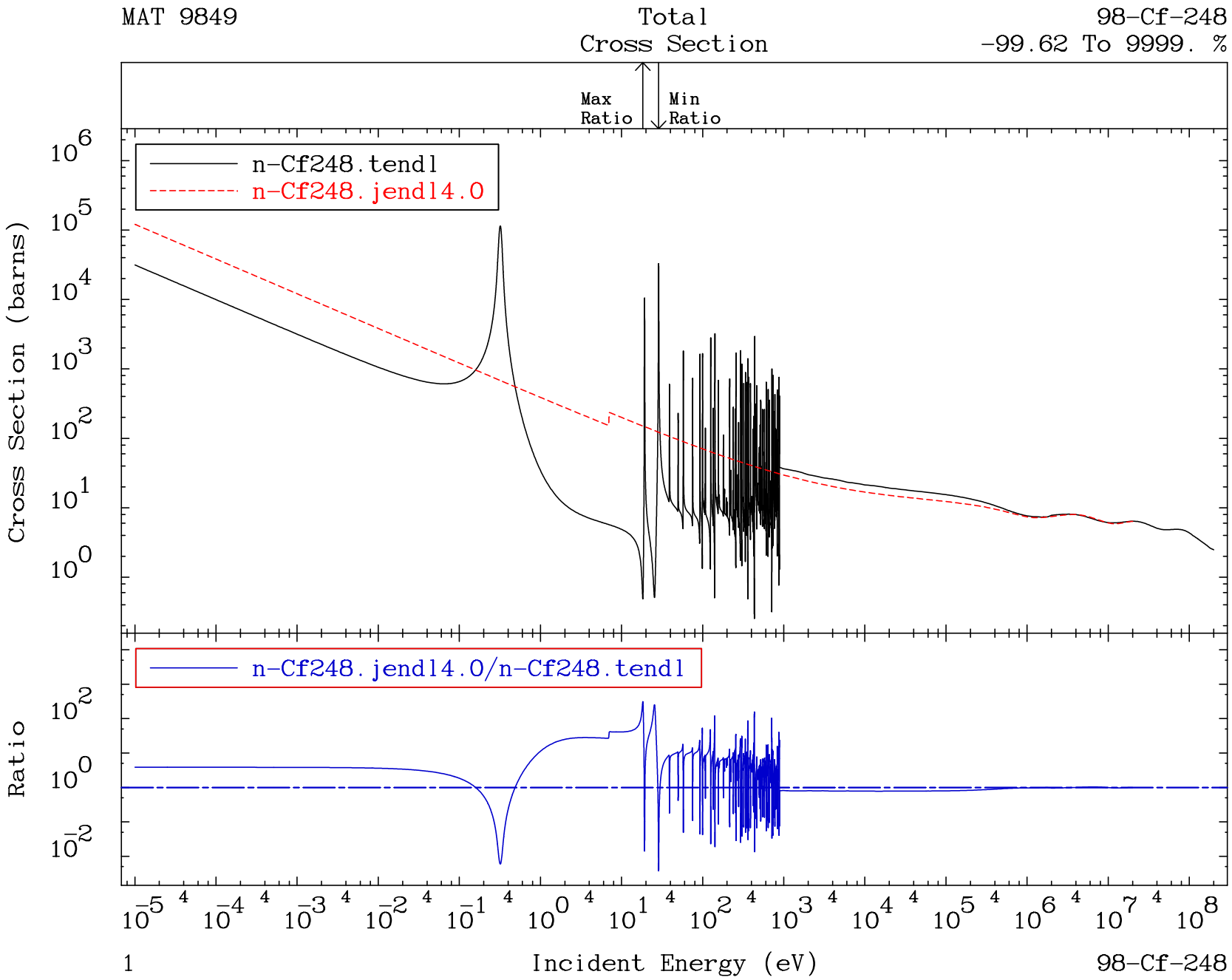

MAT 9849
Elastic
Cross Section
98-Cf-248
-99.83 To 9999. %
Max Ratio
Min Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
2
98-Cf-248

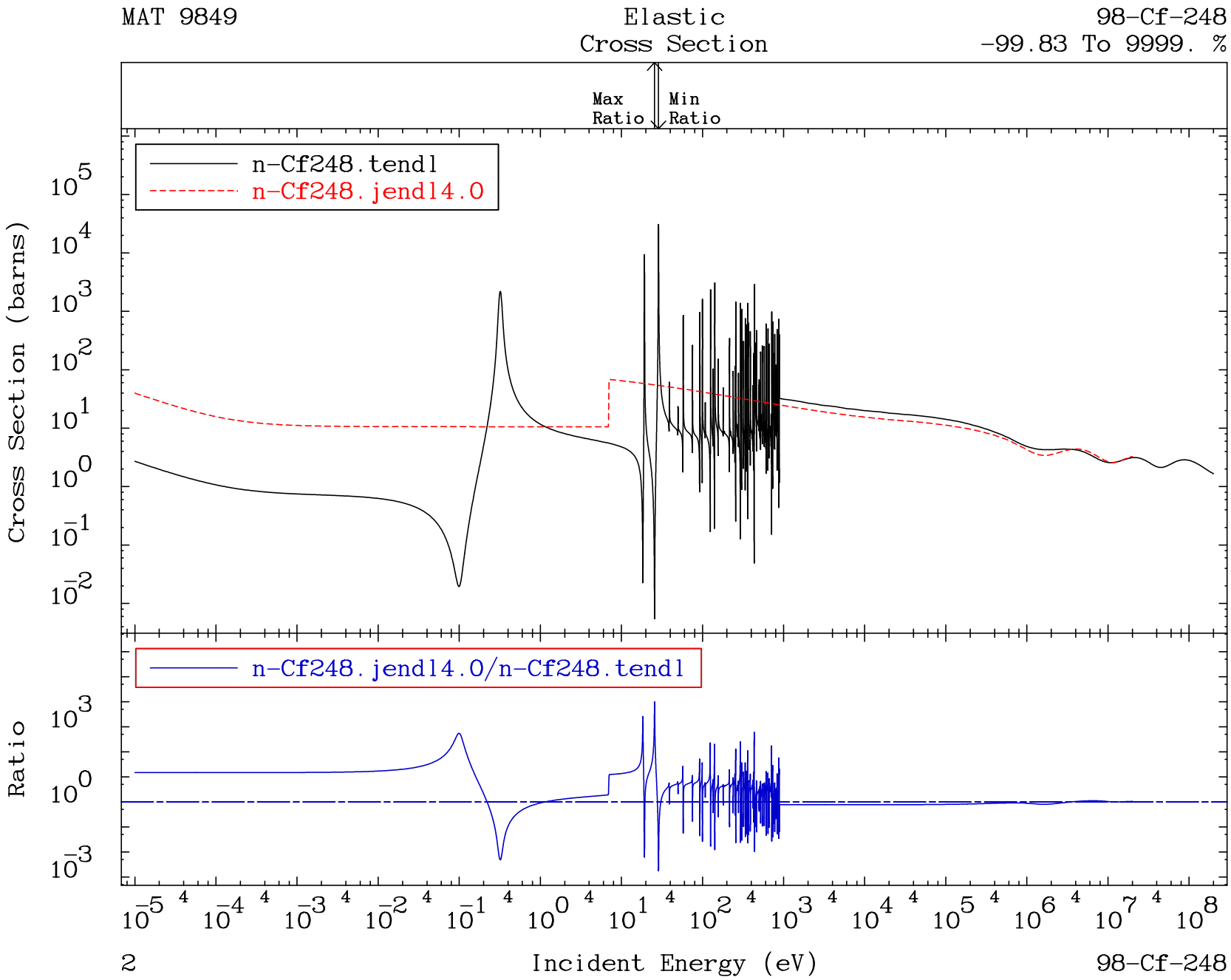

MAT 9849
Inelastic
Cross Section
98-Cf-248
-70.72 To -15.01%
Max
Ratio
Min
Ratio
n-Cf248.tendl Threshold 41.699 keV
n-Cf248.jendl4.0 Threshold 41.699 keV
Cross Section (barns)
0
1
2
3
4
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
0.4
0.6
0.8
1.0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
98-Cf-248

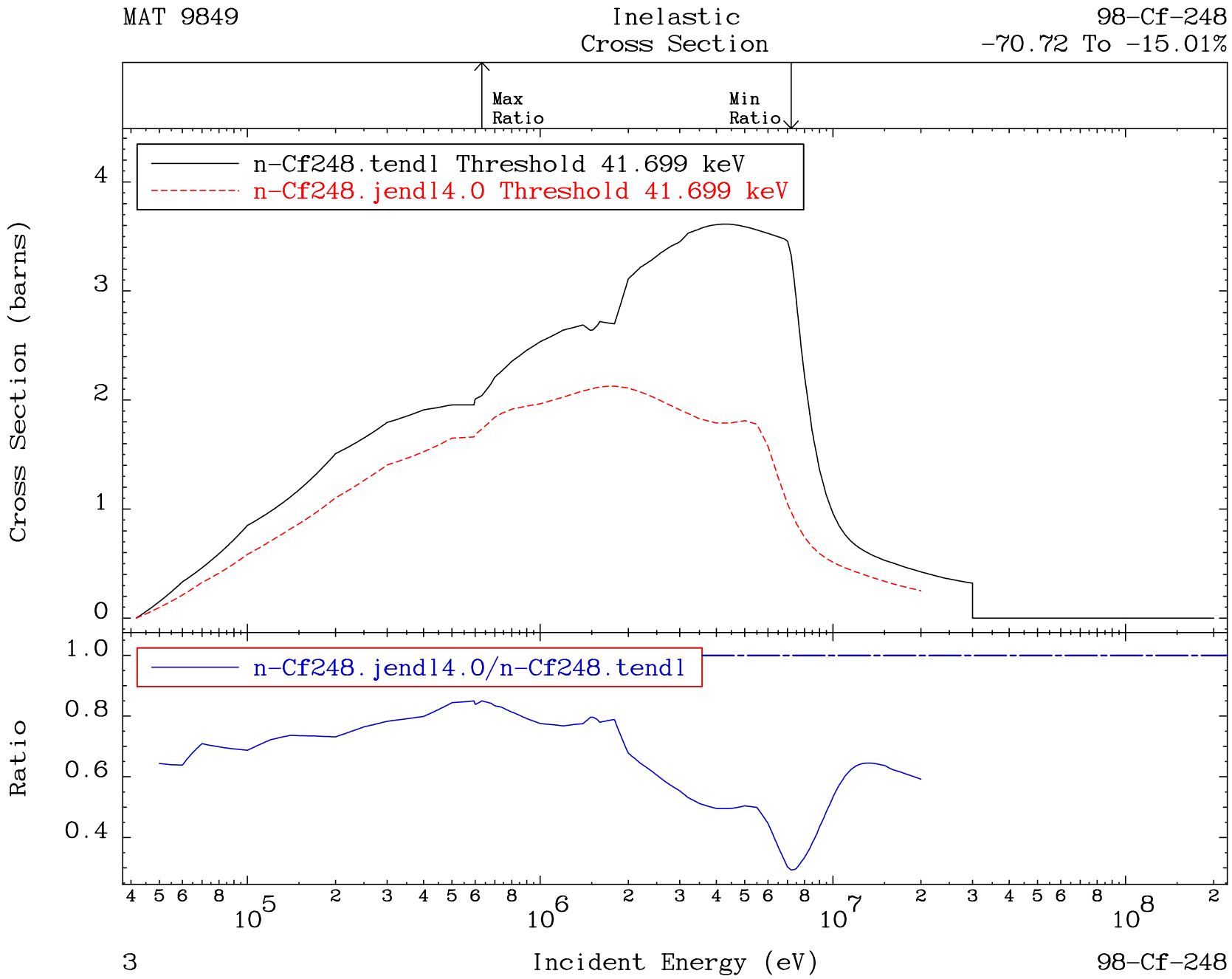

MAT 9849
Total
Cross Section
98-Cf-248
-99.62 To 9999. %
Max
Ratio
Min
Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
1
98-Cf-248

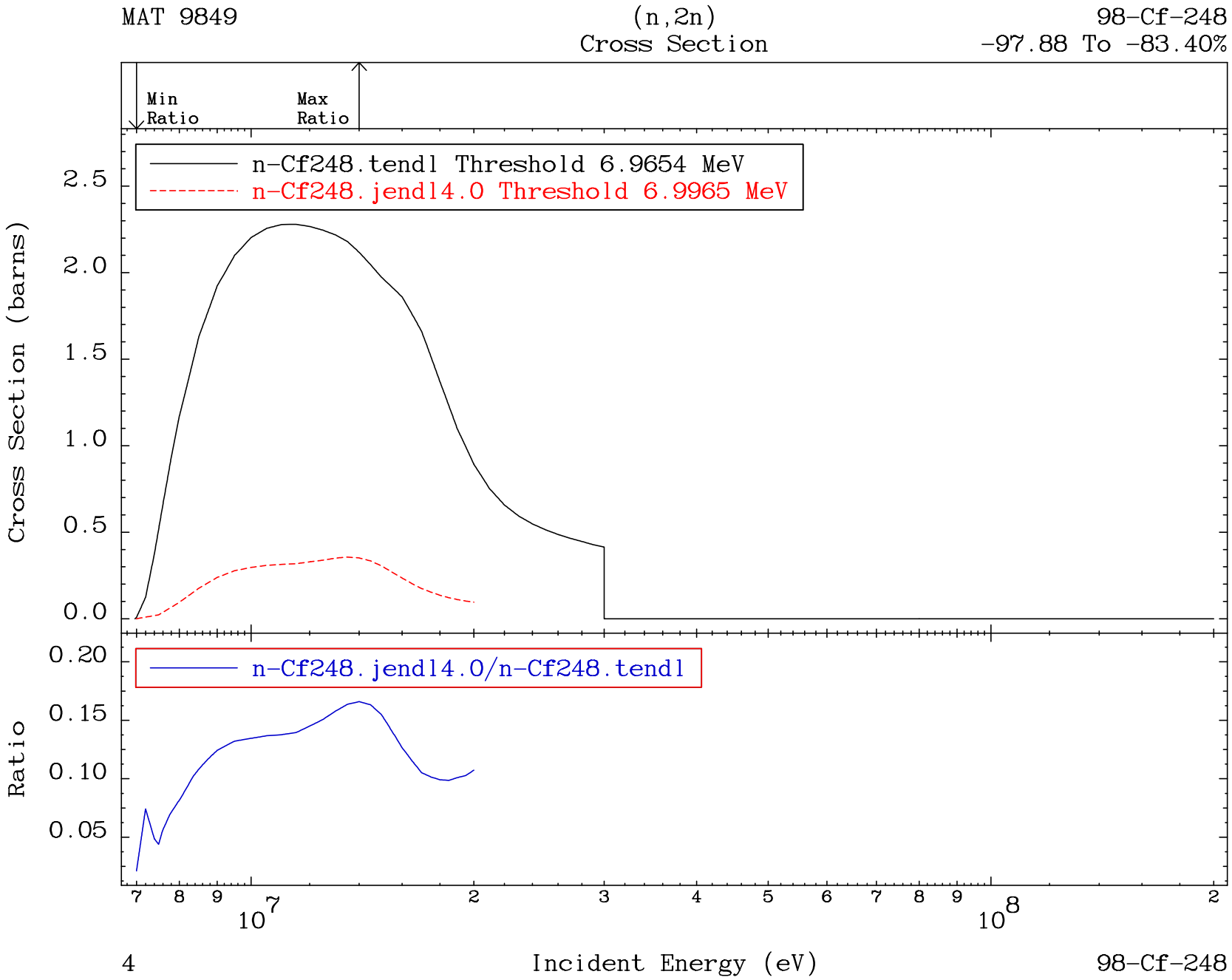

MAT 9849
Elastic
Cross Section
98-Cf-248
-99.83 To 9999. %
Max Ratio
Min Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
2
98-Cf-248

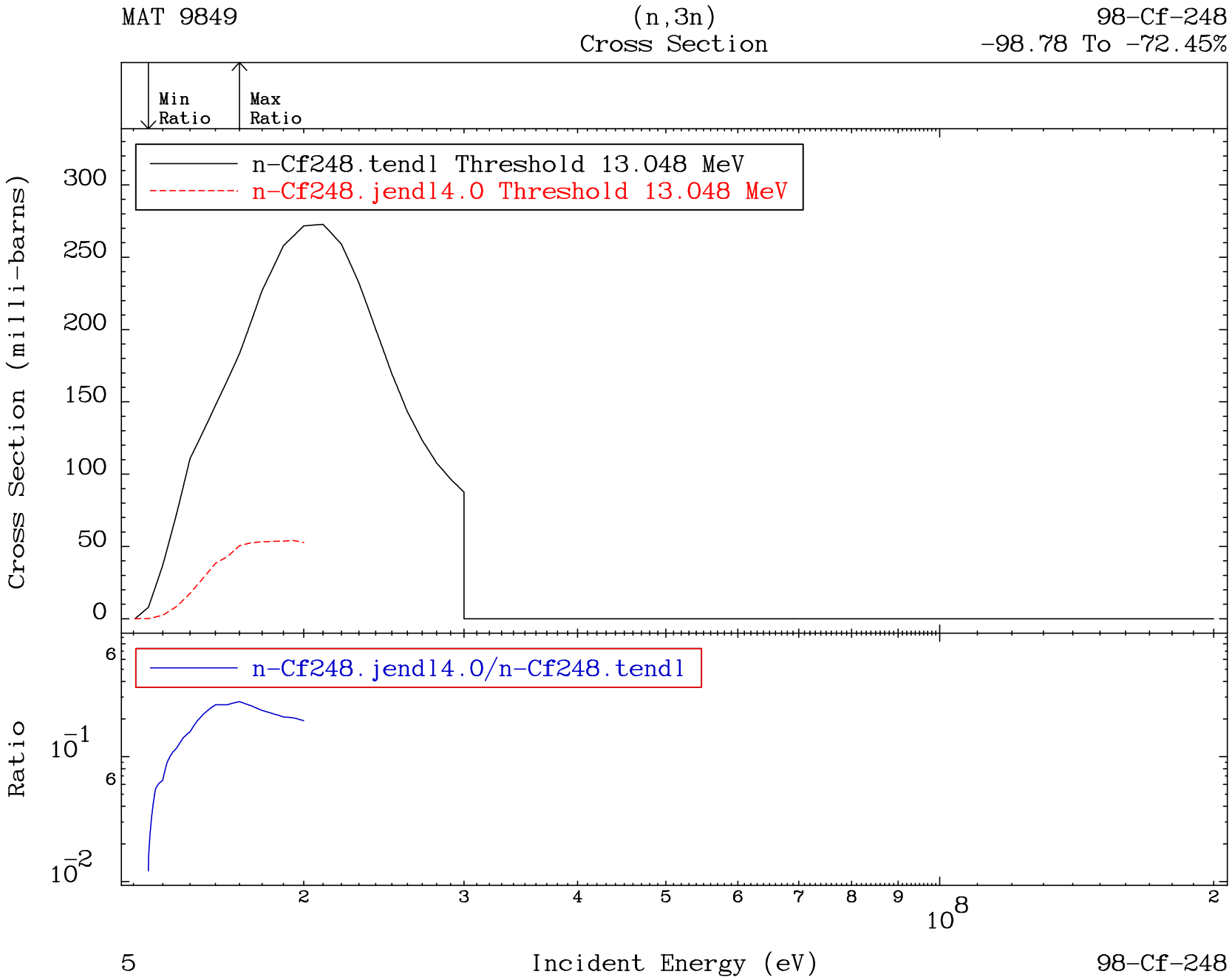

MAT 9849
Inelastic
Cross Section
98-Cf-248
-70.72 To -15.01%
Max
Ratio
Min
Ratio
n-Cf248.tendl Threshold 41.699 keV
n-Cf248.jendl4.0 Threshold 41.699 keV
Cross Section (barns)
0
1
2
3
4
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
0.4
0.6
0.8
1.0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
98-Cf-248

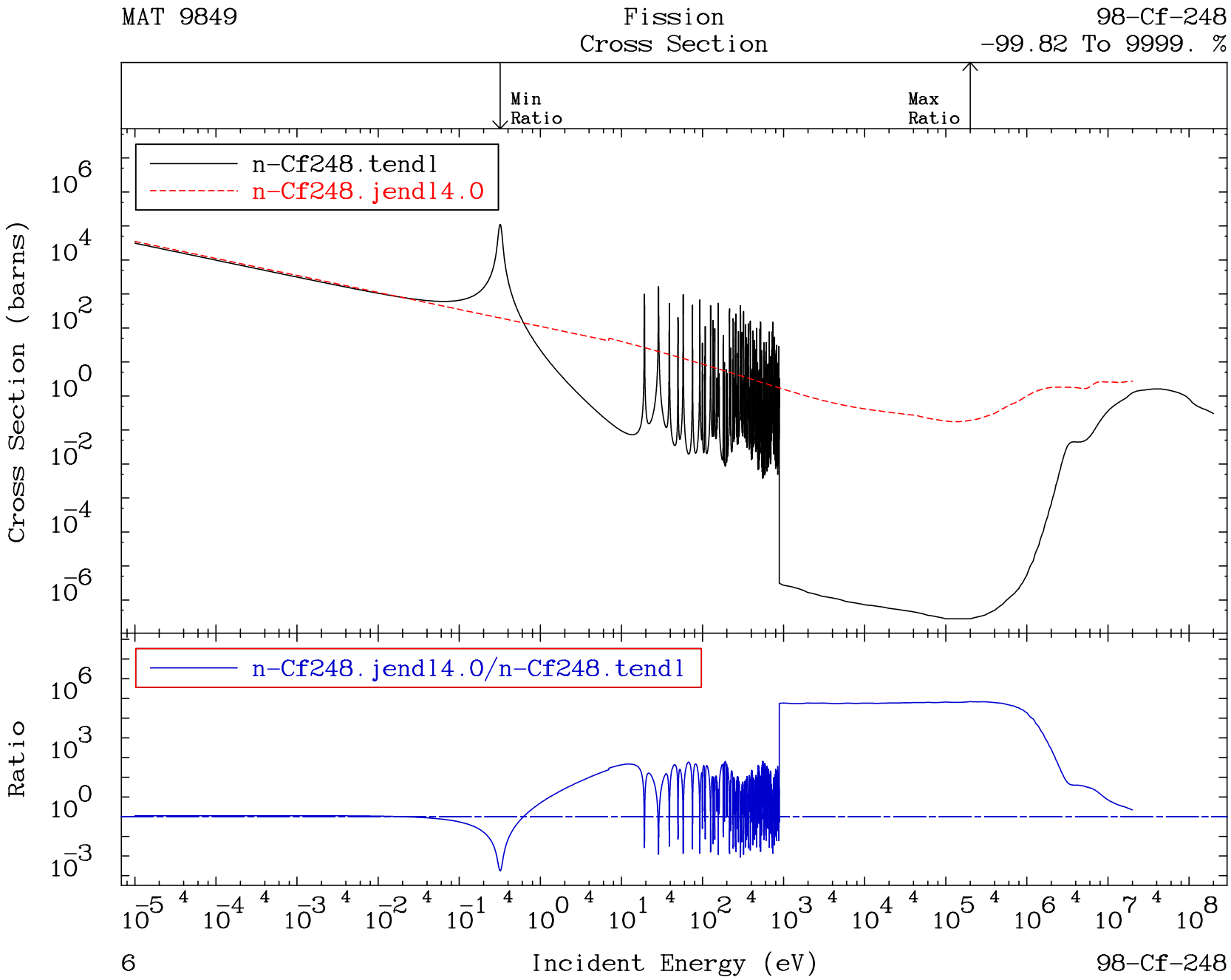

MAT 9849
Total
Cross Section
98-Cf-248
-99.62 To 9999. %
Max
Ratio
Min
Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
1
98-Cf-248

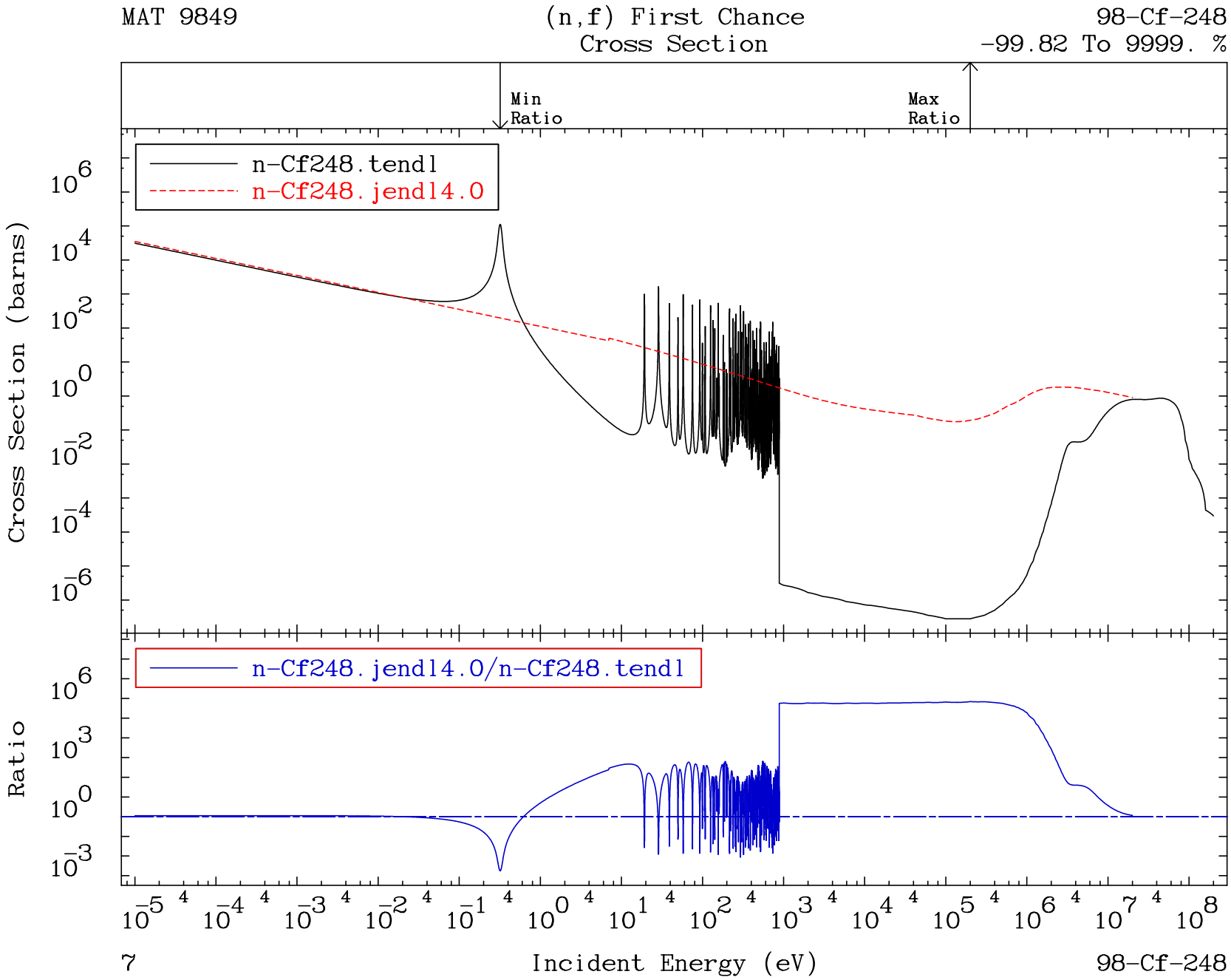

MAT 9849
Elastic
Cross Section
98-Cf-248
-99.83 To 9999. %
Max Ratio
Min Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
2
98-Cf-248

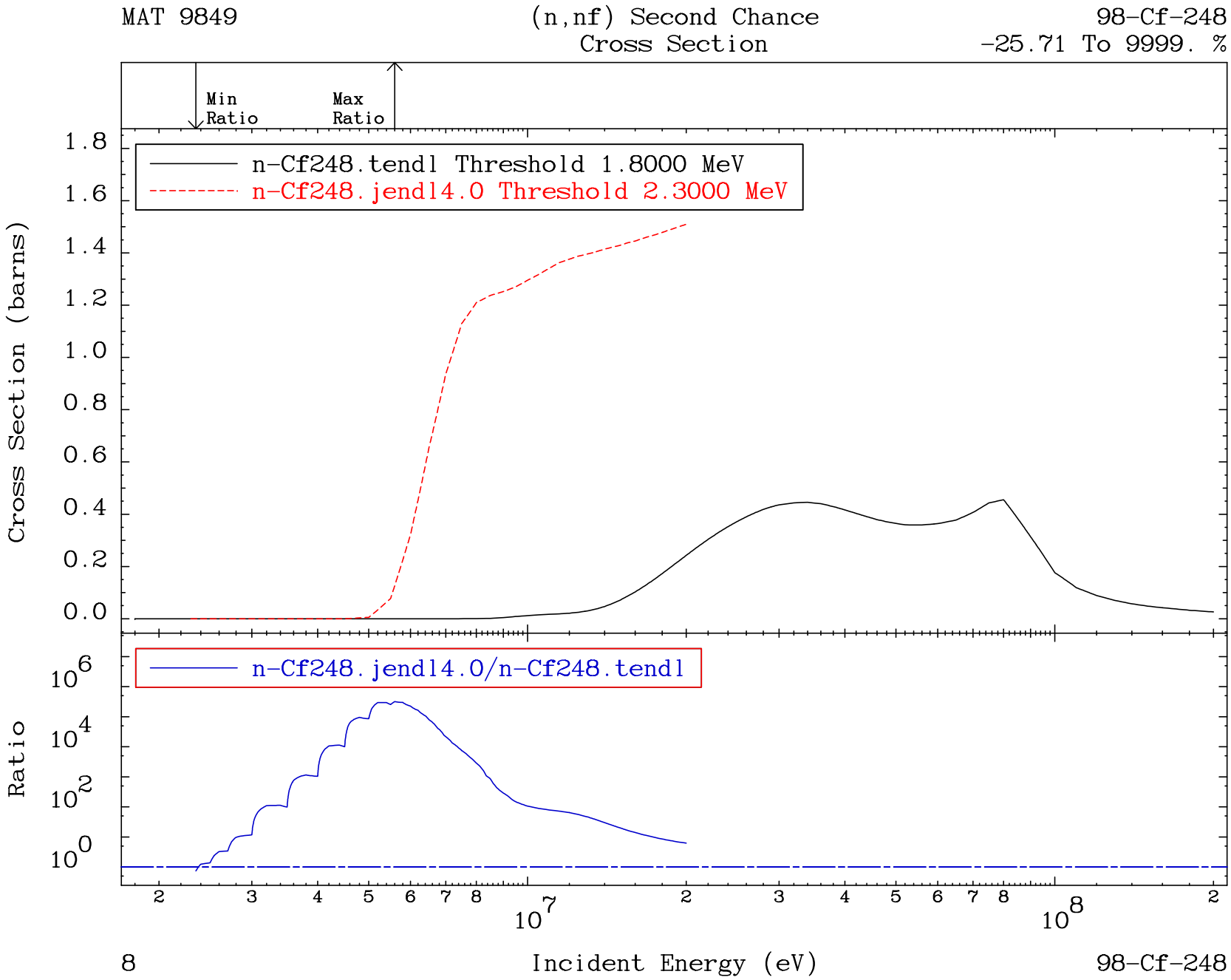

MAT 9849
Inelastic
Cross Section
98-Cf-248
-70.72 To -15.01%
Max
Ratio
Min
Ratio
n-Cf248.tendl Threshold 41.699 keV
n-Cf248.jendl4.0 Threshold 41.699 keV
Cross Section (barns)
0
1
2
3
4
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
0.4
0.6
0.8
1.0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
98-Cf-248

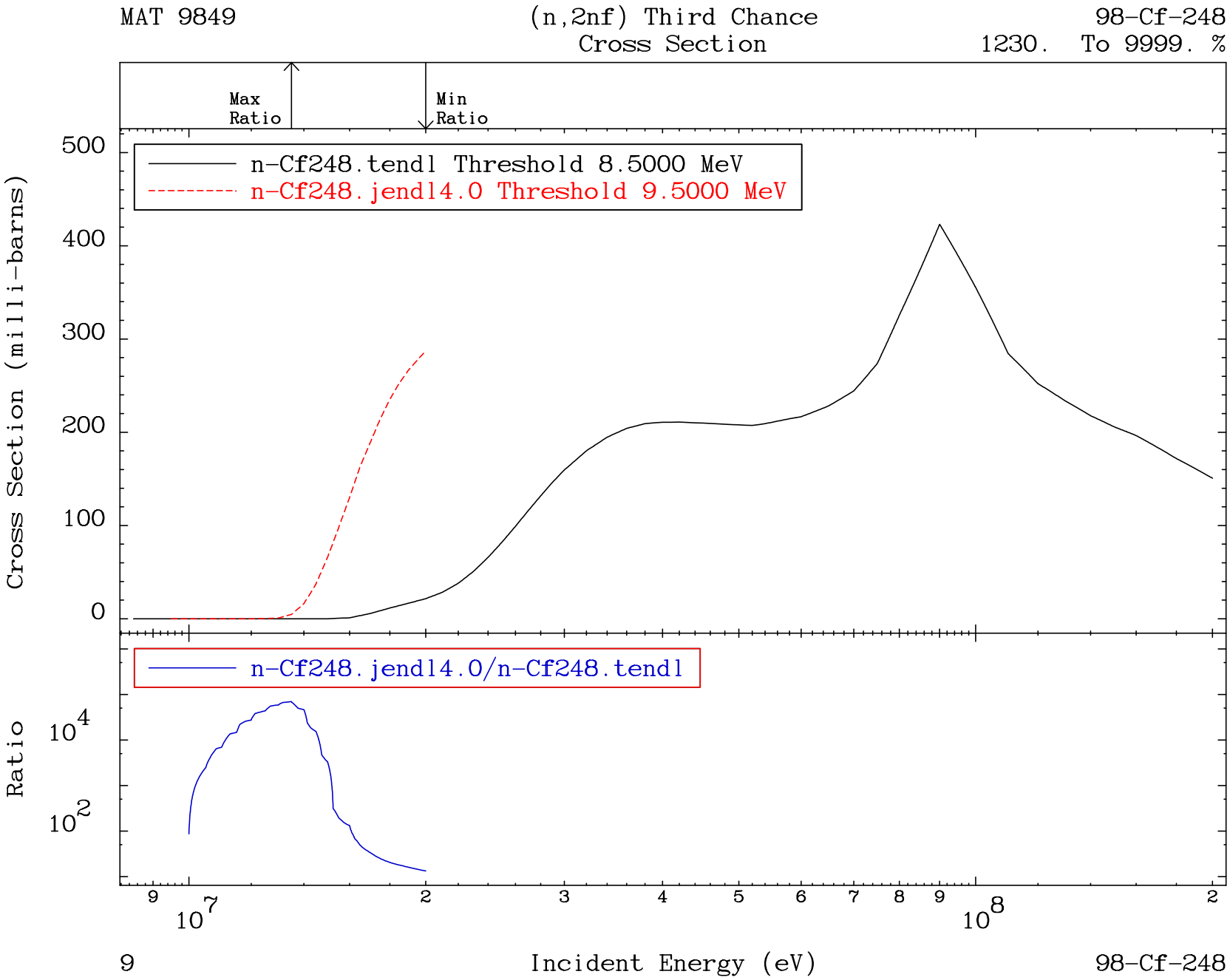

MAT 9849
(n,2n)
Cross Section
98-Cf-248
-97.88 To -83.40%
Min Ratio
Max Ratio
n-Cf248.tendl Threshold 6.9654 MeV
n-Cf248.jendl4.0 Threshold 6.9965 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
0.20
0.15
0.10
0.05
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
98-Cf-248

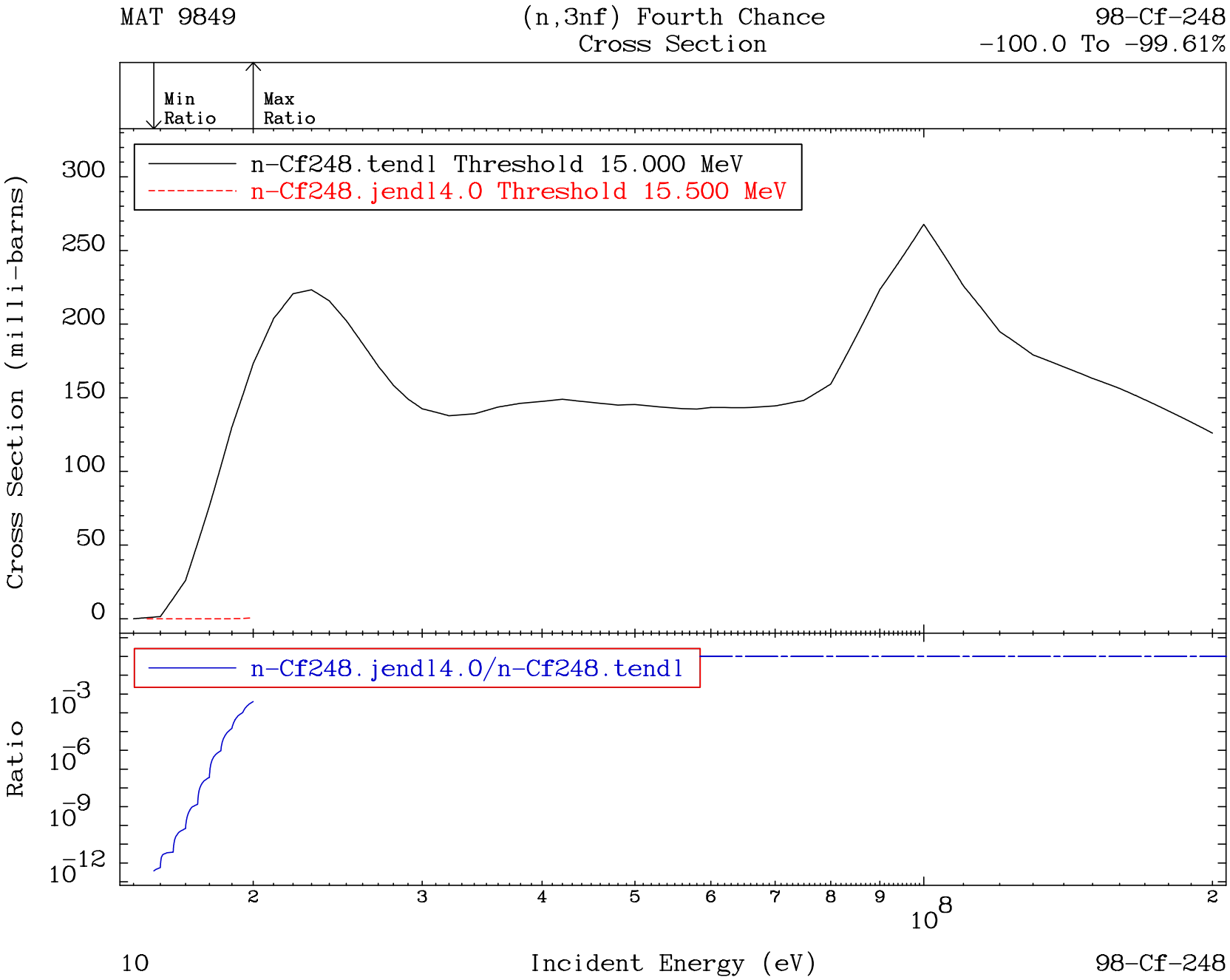

MAT 9849
(n,3n)
Cross Section
98-Cf-248
-98.78 To -72.45%
Min Ratio
Max Ratio
n-Cf248.tendl Threshold 13.048 MeV
n-Cf248.jendl4.0 Threshold 13.048 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
6
10^{-1}
6
10^{-2}
2
3
4
5
6
7
8
9
10^{8}
2
5
Incident Energy (eV)
98-Cf-248

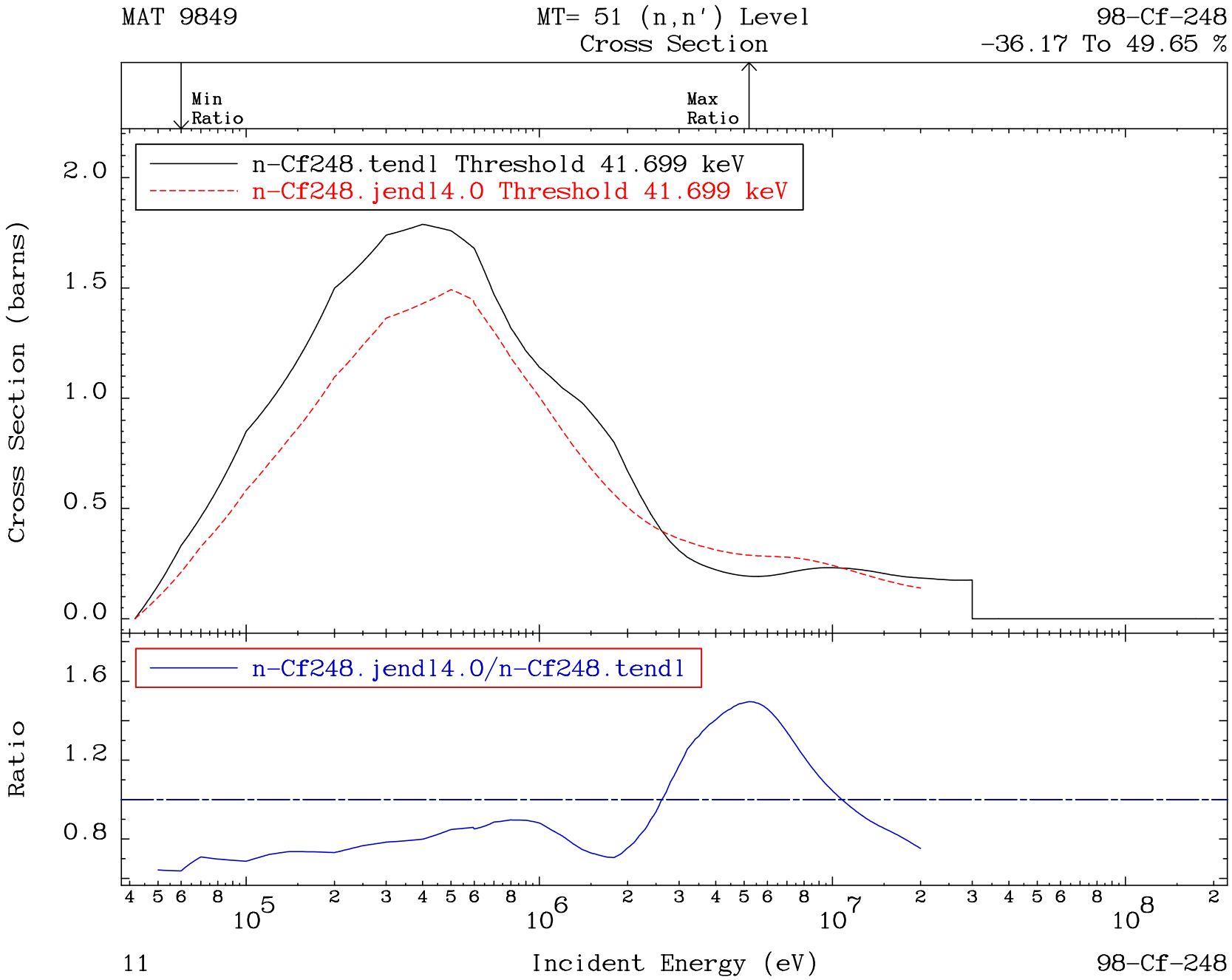

MAT 9849
Fission
Cross Section
98-Cf-248
-99.82 To 9999. %
Min Ratio
Max Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
6
98-Cf-248

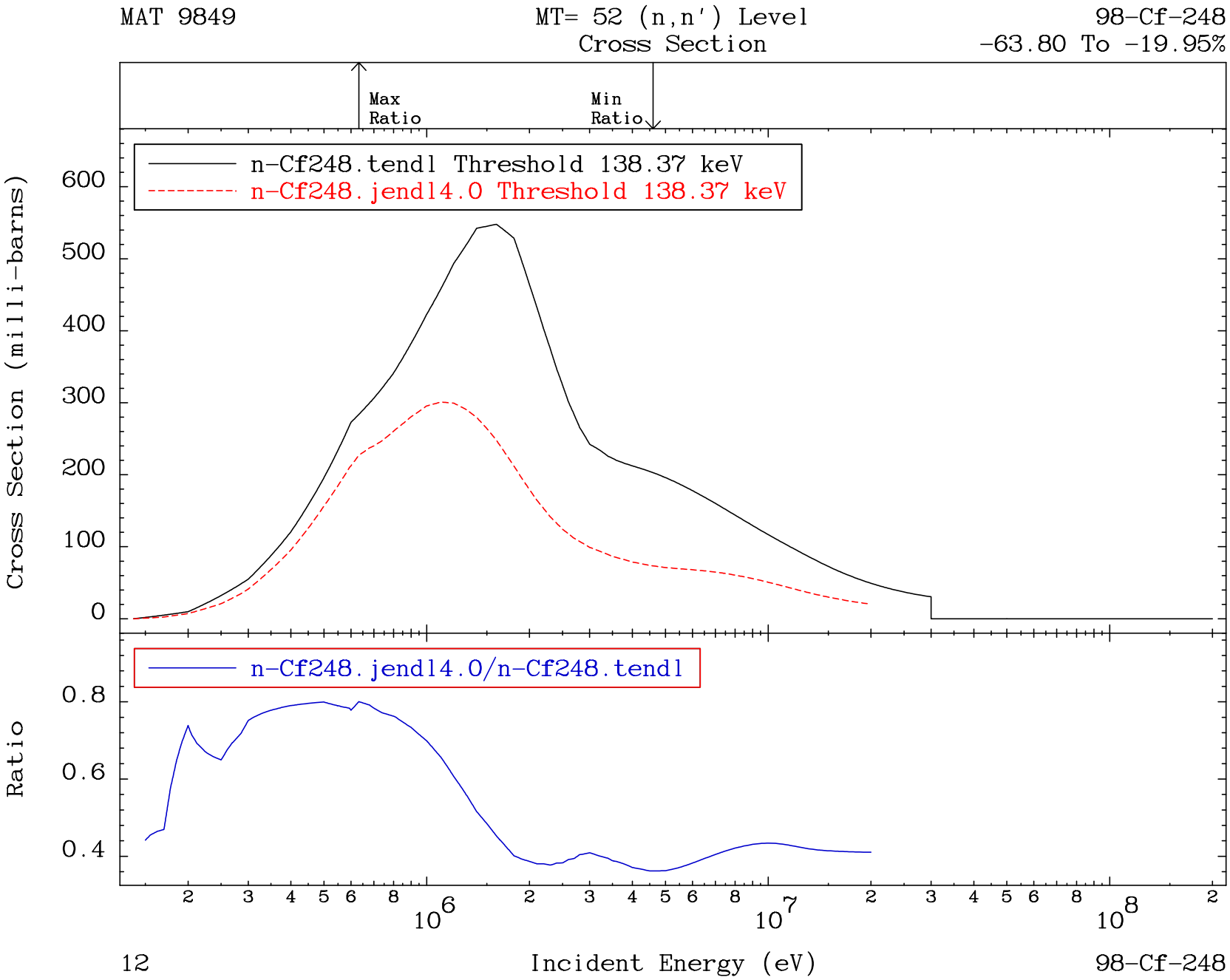

MAT 9849
(n,f) First Chance
Cross Section
98-Cf-248
-99.82 To 9999. %
Min
Ratio
Max
Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
7
98-Cf-248

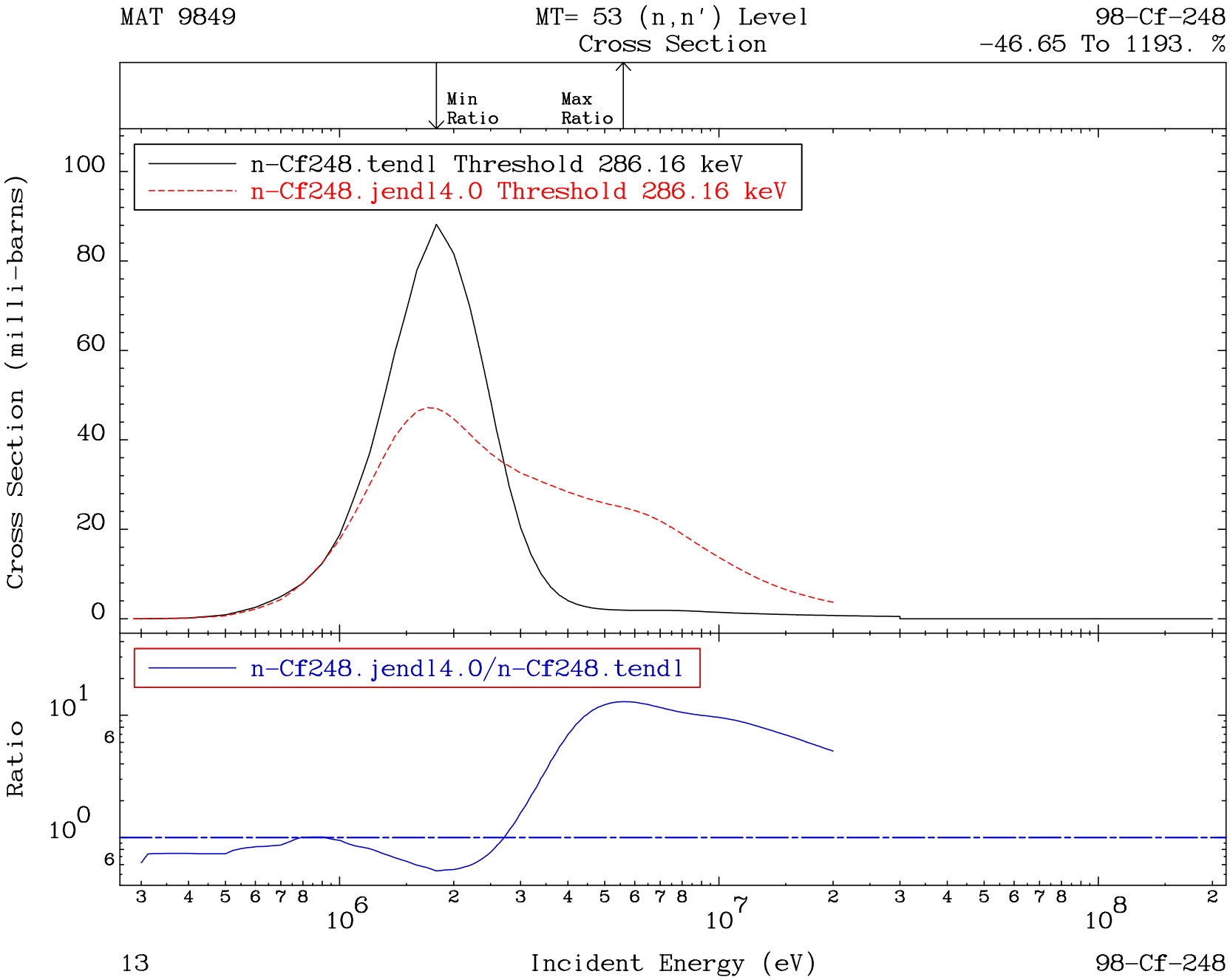

MAT 9849
(n,nf) Second Chance
Cross Section
98-Cf-248
-25.71 To 9999. %
Min Ratio
Max Ratio
n-Cf248.tendl Threshold 1.8000 MeV
n-Cf248.jendl4.0 Threshold 2.3000 MeV
Cross Section (barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
10^6
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
98-Cf-248

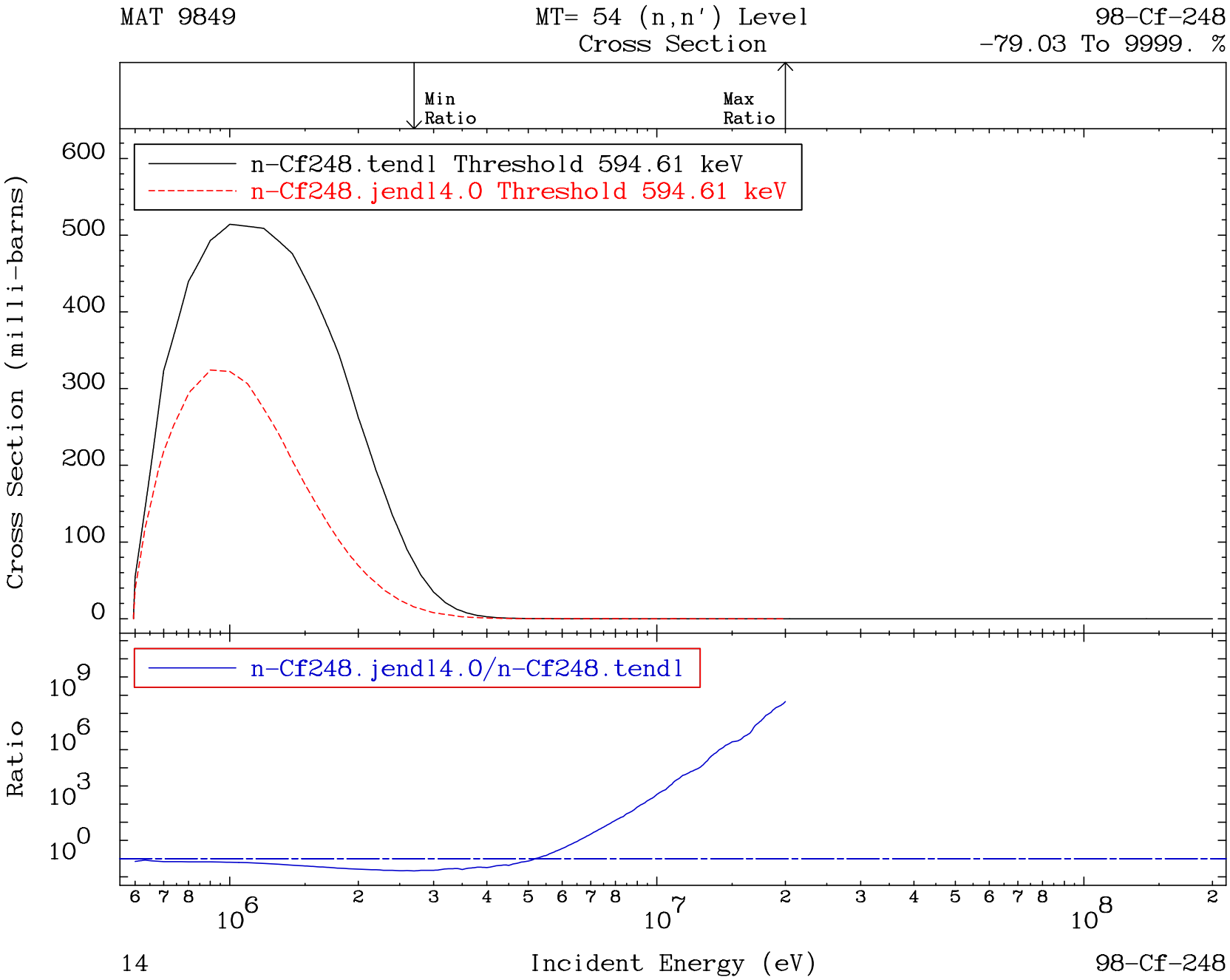

MAT 9849
(n,2nf) Third Chance
Cross Section
98-Cf-248
1230. To 9999. %
Max Ratio
Min Ratio
n-Cf248.tendl Threshold 8.5000 MeV
n-Cf248.jendl4.0 Threshold 9.5000 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
10^4
10^2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
98-Cf-248

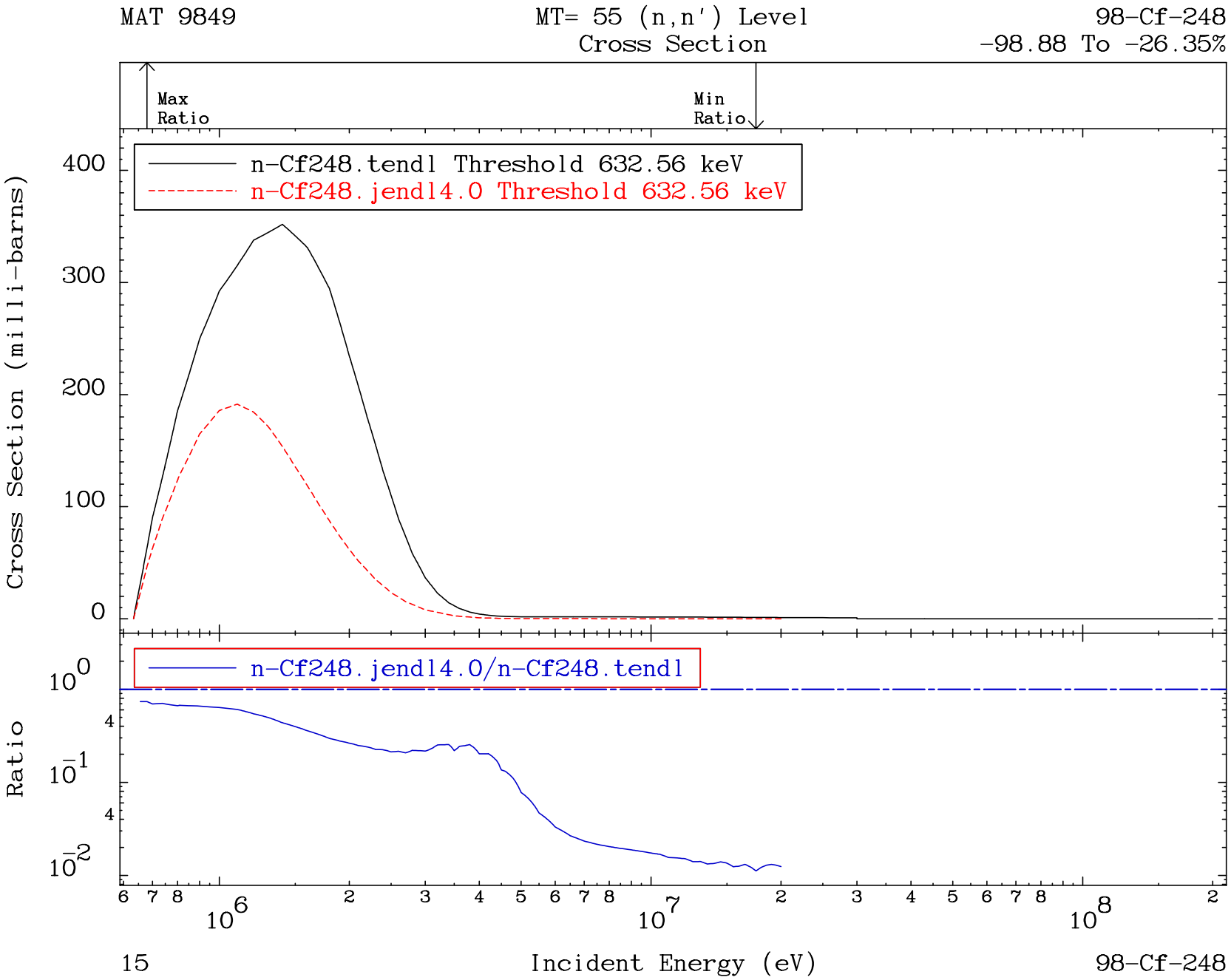

MAT 9849
(n,3nf) Fourth Chance
Cross Section
98-Cf-248
-100.0 To -99.61%
Min
Ratio
Max
Ratio
n-Cf248.tendl Threshold 15.000 MeV
n-Cf248.jendl4.0 Threshold 15.500 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
10^-3
10^-6
10^-9
10^-12
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
98-Cf-248

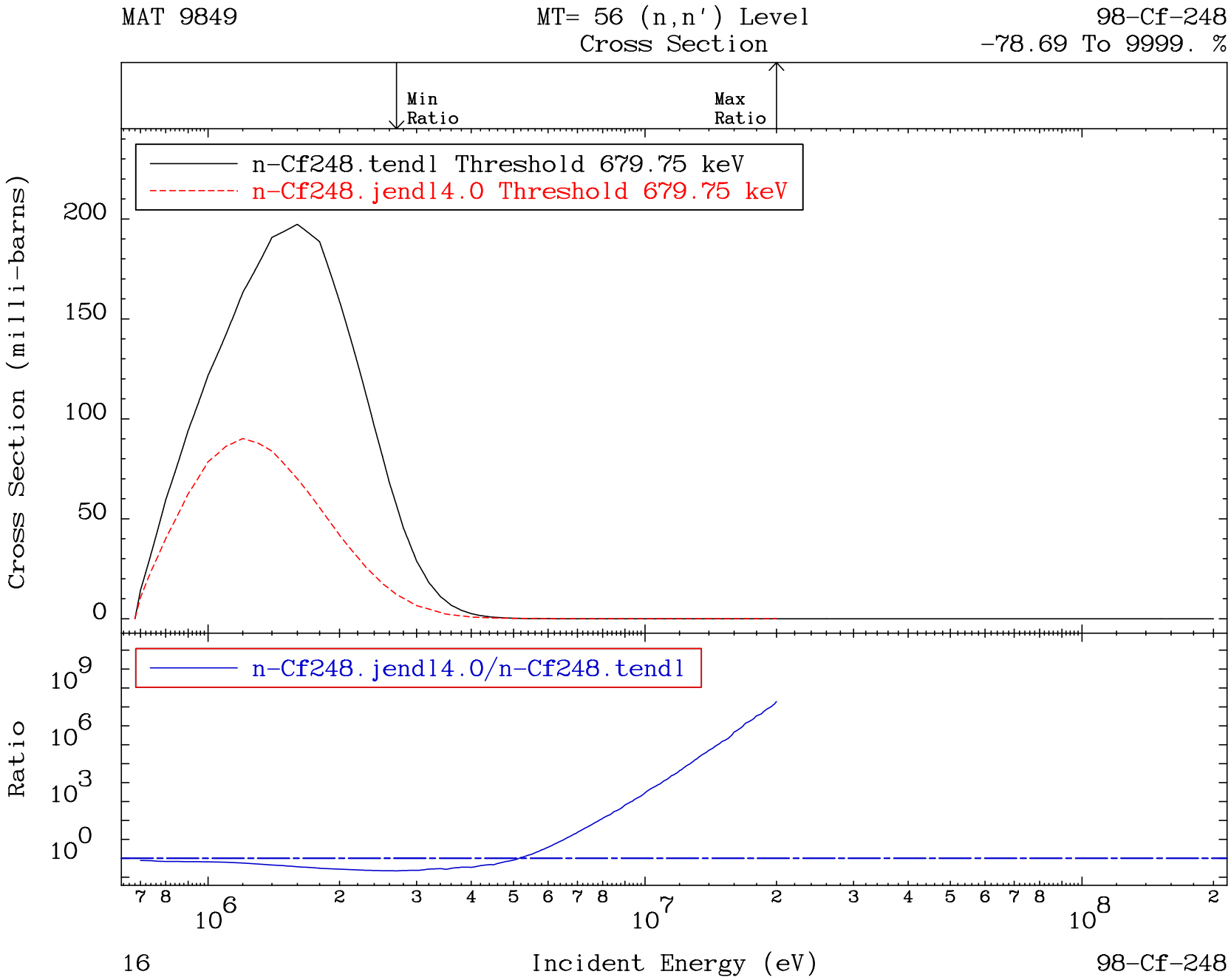

MAT 9849
MT= 51 (n,n') Level
Cross Section
98-Cf-248
-36.17 To 49.65 %
Min Ratio
Max Ratio
n-Cf248.tendl Threshold 41.699 keV
n-Cf248.jendl4.0 Threshold 41.699 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
1.6
1.2
0.8
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
98-Cf-248

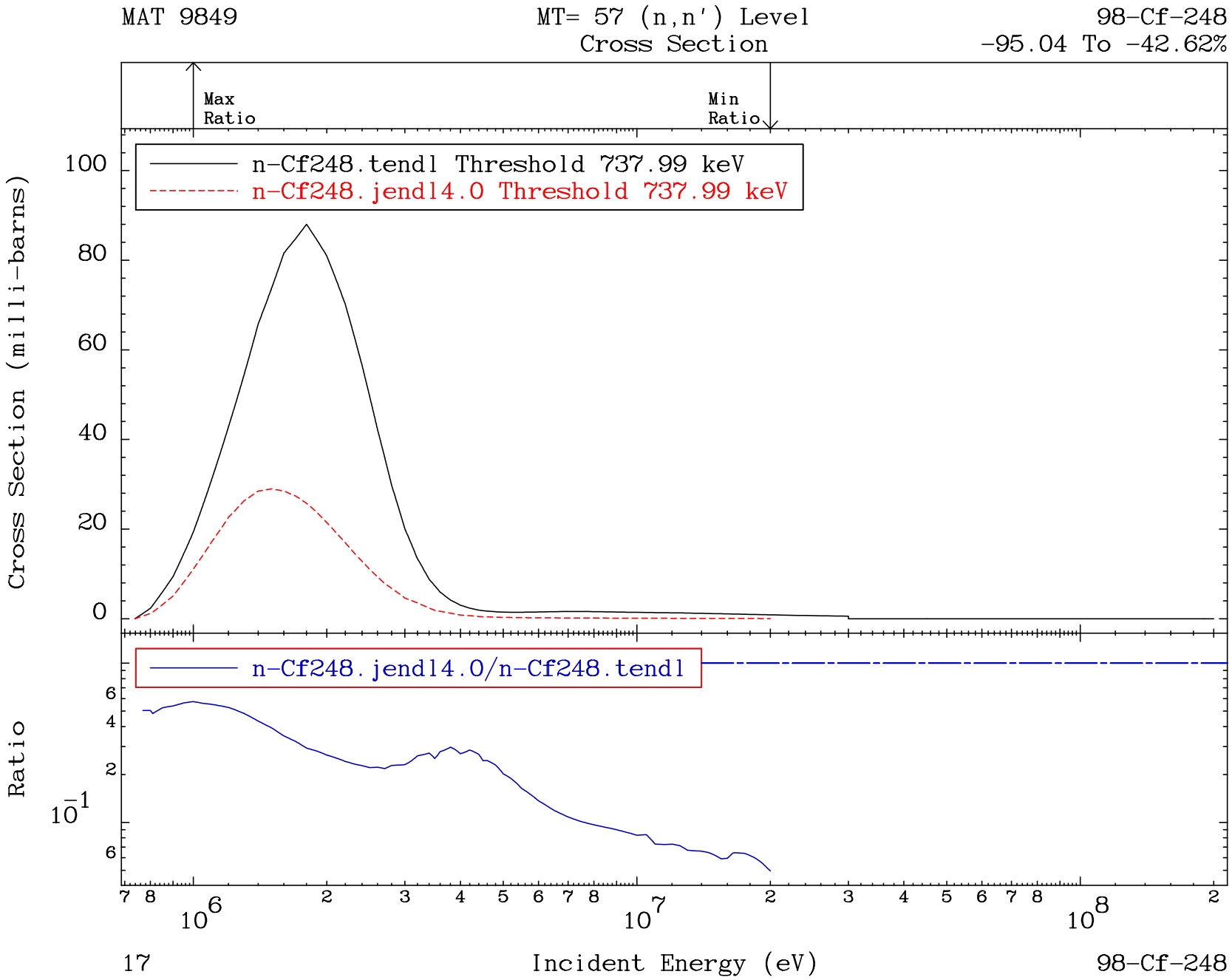

MAT 9849
MT= 52 (n,n') Level
Cross Section
98-Cf-248
-63.80 To -19.95%
Max
Ratio
Min
Ratio
n-Cf248.tendl Threshold 138.37 keV
n-Cf248.jendl4.0 Threshold 138.37 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
0.8
0.6
0.4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
98-Cf-248

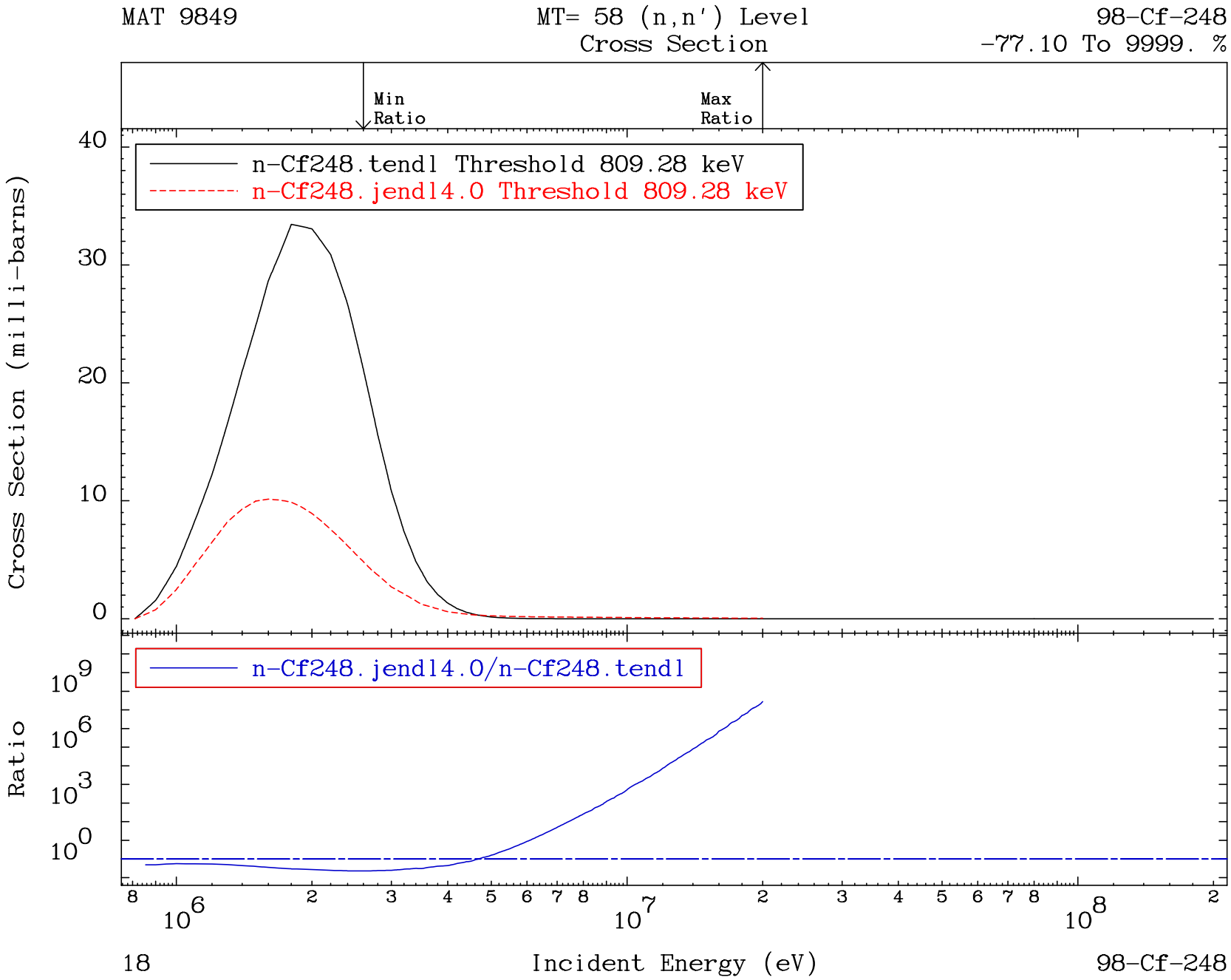

MAT 9849
MT= 53 (n,n') Level
Cross Section
98-Cf-248
-46.65 To 1193. %
Min Ratio
Max Ratio
n-Cf248.tendl Threshold 286.16 keV
n-Cf248.jendl4.0 Threshold 286.16 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
10^1
6
10^0
6
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
98-Cf-248

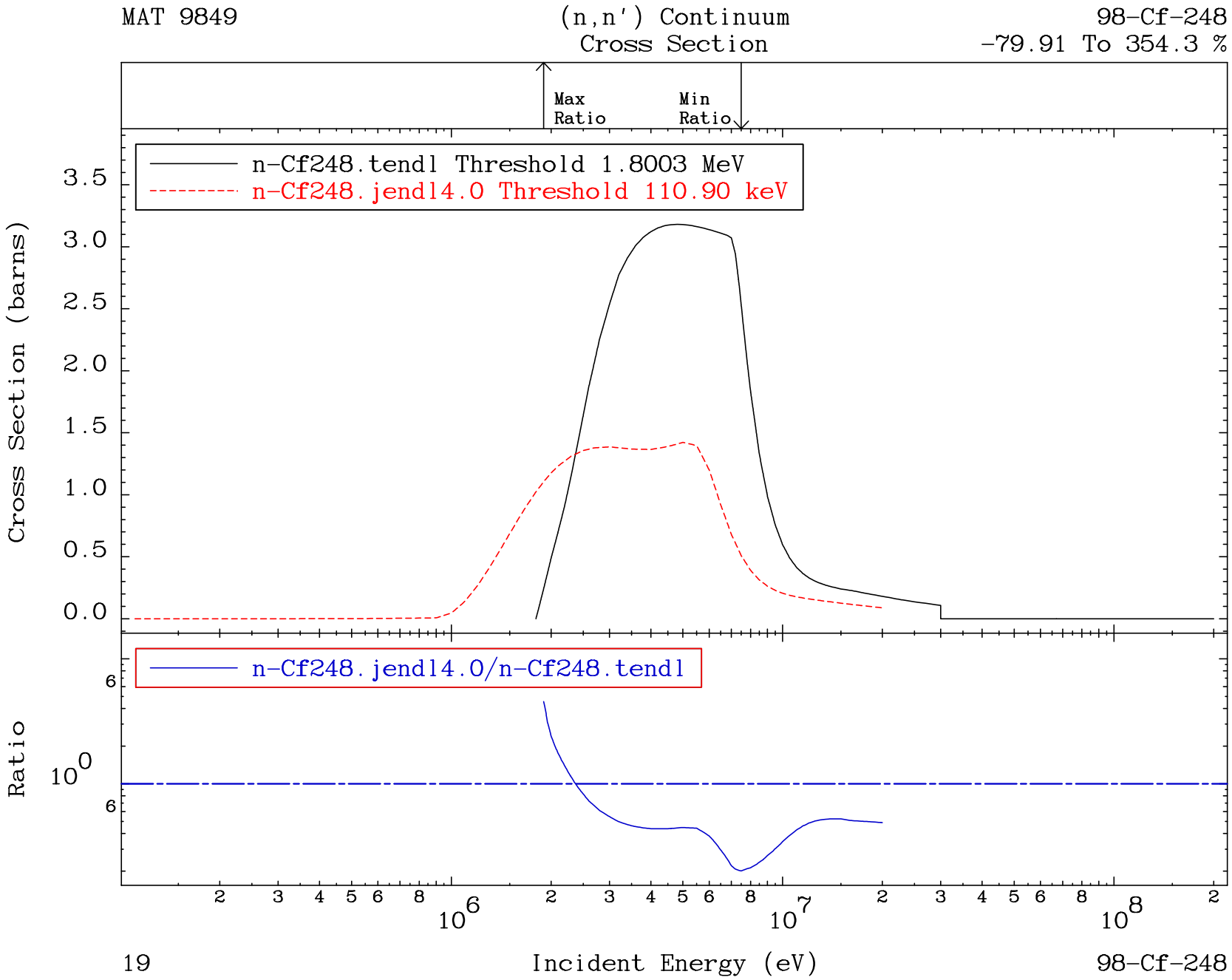

MAT 9849
MT= 54 (n,n') Level
Cross Section
98-Cf-248
-79.03 To 9999. %
Min
Ratio
Max
Ratio
n-Cf248.tendl Threshold 594.61 keV
n-Cf248.jendl4.0 Threshold 594.61 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
10^9
10^6
10^3
10^0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
98-Cf-248

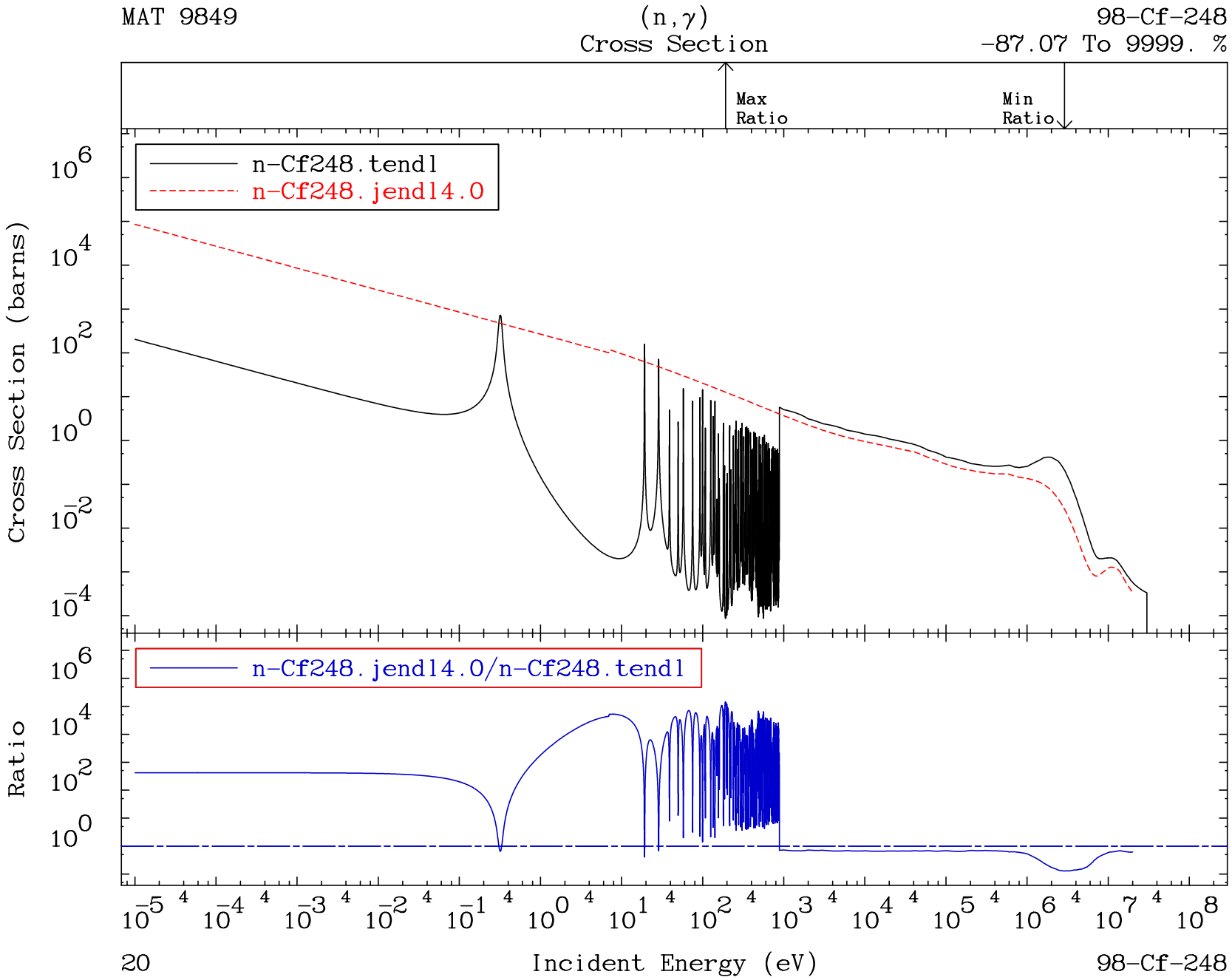

MAT 9849
MT= 55 (n,n') Level
Cross Section
98-Cf-248
-98.88 To -26.35%
Max Ratio
Min Ratio
n-Cf248.tendl Threshold 632.56 keV
n-Cf248.jendl4.0 Threshold 632.56 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
10^0
4
10^-1
4
10^-2
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
15
98-Cf-248

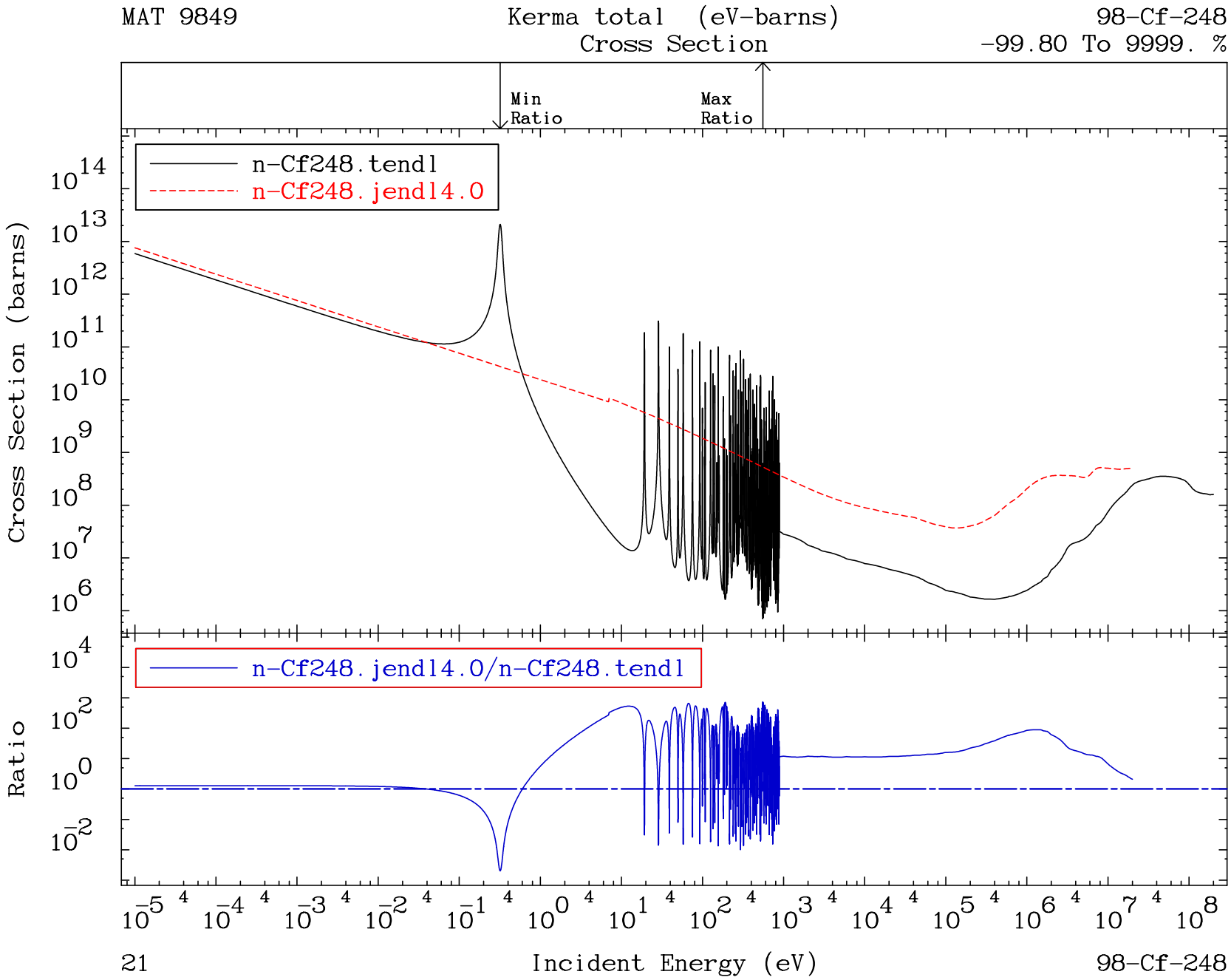

MAT 9849
MT= 56 (n,n') Level
Cross Section
98-Cf-248
-78.69 To 9999. %
Min
Ratio
Max
Ratio
n-Cf248.tendl Threshold 679.75 keV
n-Cf248.jendl4.0 Threshold 679.75 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
10^9
10^6
10^3
10^0
7 8
10^6
2
3
4
5
6
7 8
10^7
2
3
4
5
6
7 8
10^8
2
16
Incident Energy (eV)
98-Cf-248

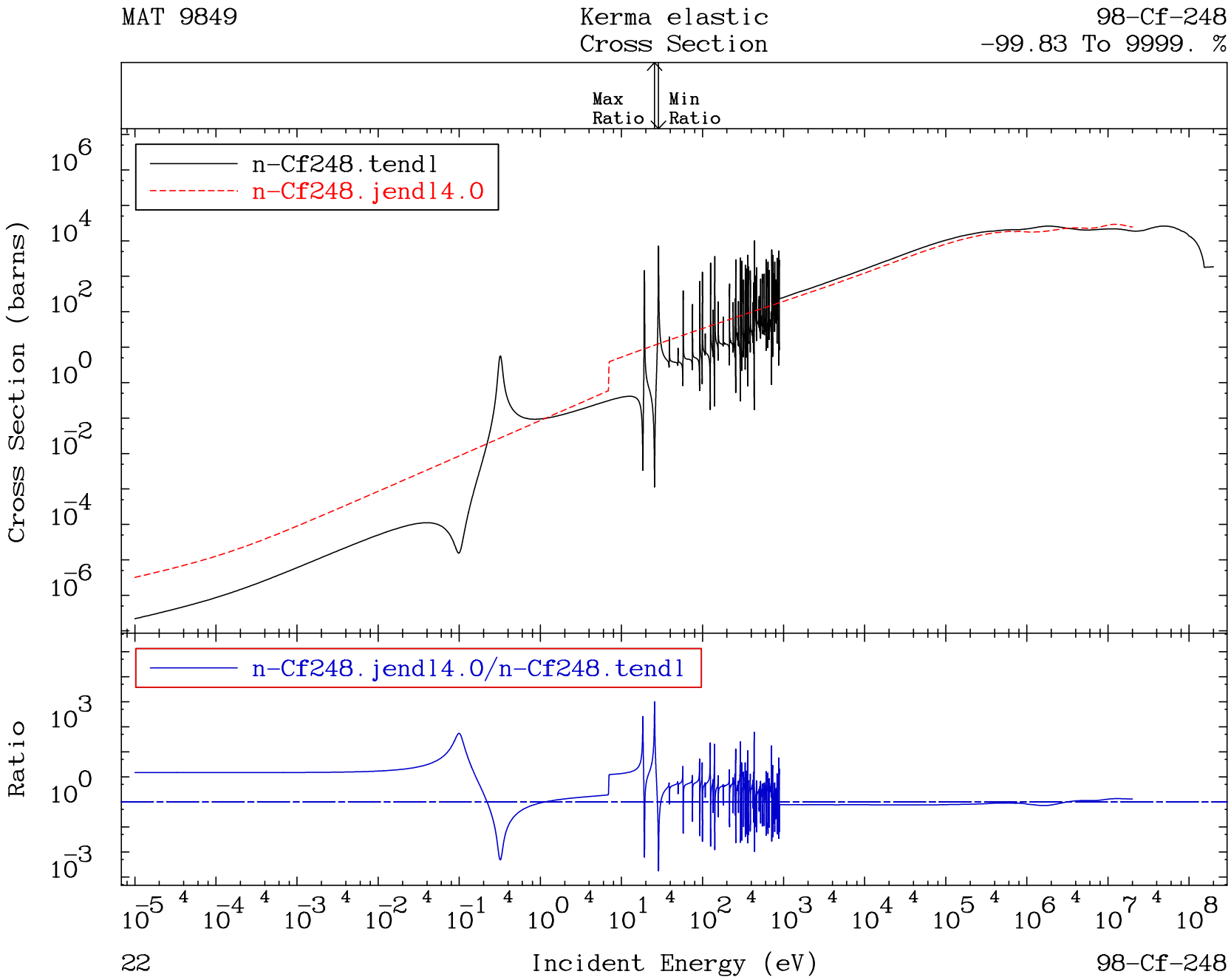

MAT 9849
MT= 57 (n,n') Level
Cross Section
98-Cf-248
-95.04 To -42.62%
Max
Ratio
Min
Ratio
n-Cf248.tendl Threshold 737.99 keV
n-Cf248.jendl4.0 Threshold 737.99 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
6
4
2
10^{-1}
6
7 8
10^{6}
2
3
4
5
6
7 8
10^{7}
2
3
4
5
6
7 8
10^{8}
2
17
Incident Energy (eV)
98-Cf-248

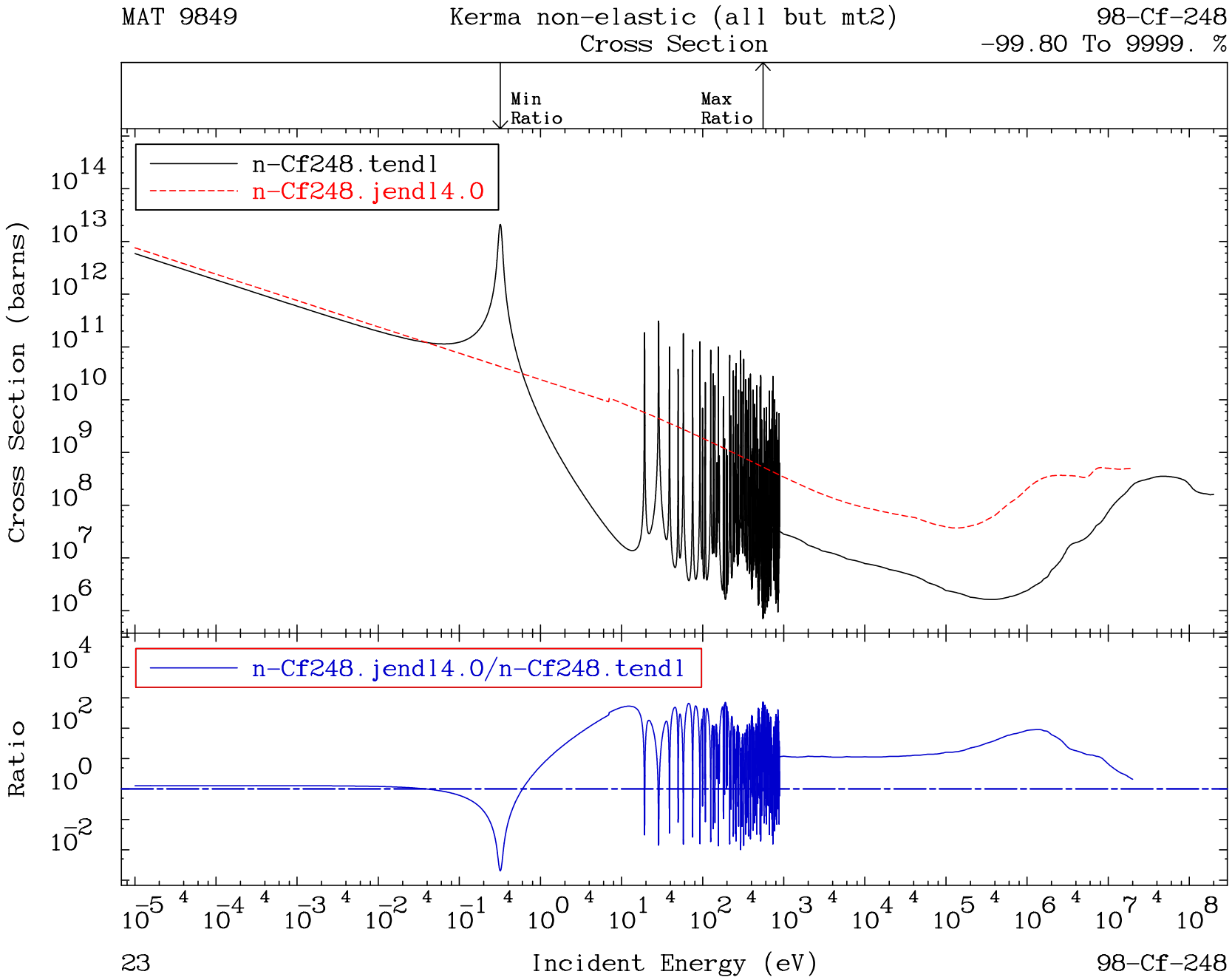

MAT 9849
MT= 58 (n,n') Level
Cross Section
98-Cf-248
-77.10 To 9999. %
Min
Ratio
Max
Ratio
n-Cf248.tendl Threshold 809.28 keV
n-Cf248.jendl4.0 Threshold 809.28 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
10^9
10^6
10^3
10^0
8
2
3
4
5
6
7
8
10^6
10^7
10^8
18
Incident Energy (eV)
98-Cf-248

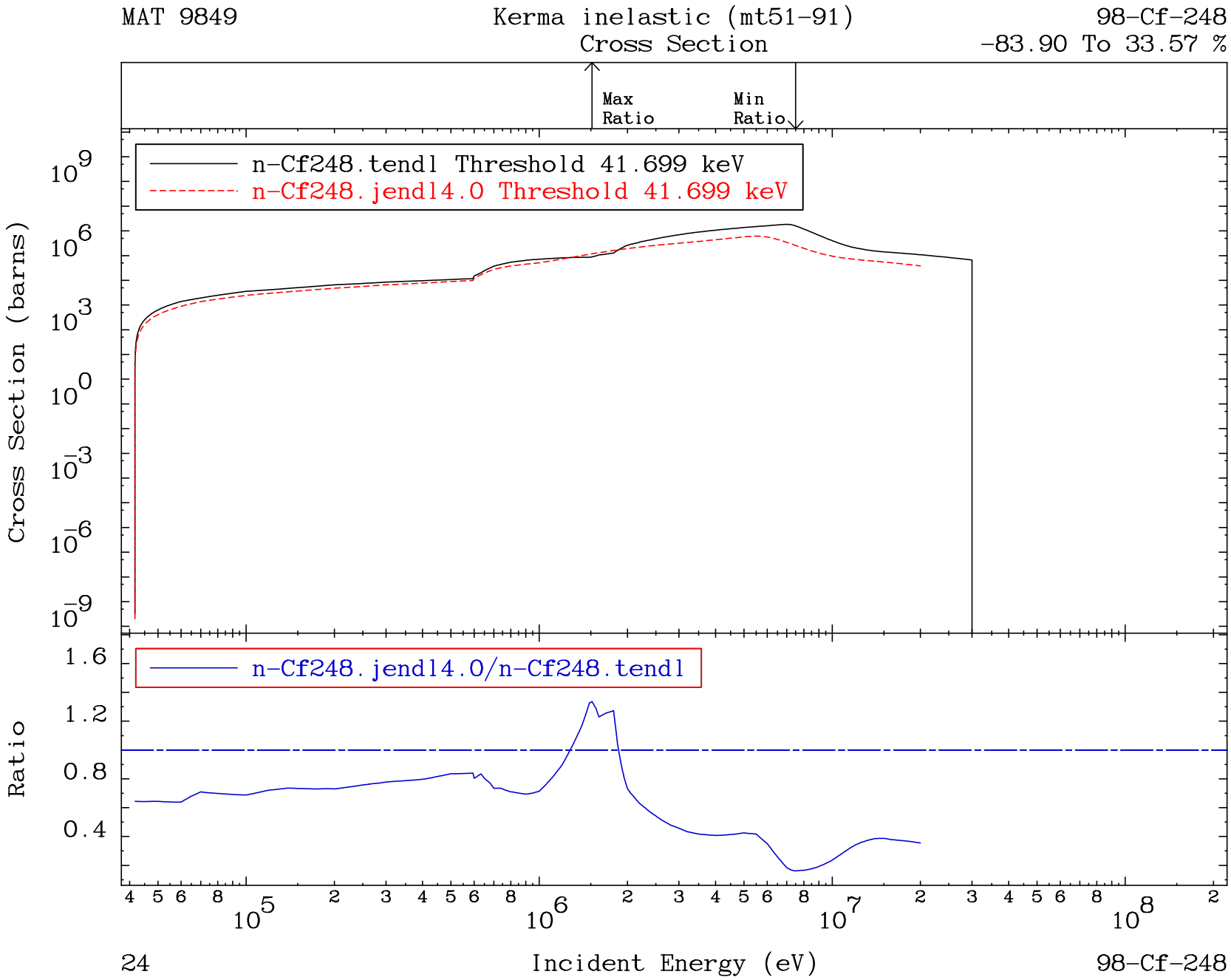

MAT 9849
(n,n') Continuum
Cross Section
98-Cf-248
-79.91 To 354.3 %
Max
Ratio
Min
Ratio
n-Cf248.tendl Threshold 1.8003 MeV
n-Cf248.jendl4.0 Threshold 110.90 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
6
10^0
6
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
98-Cf-248

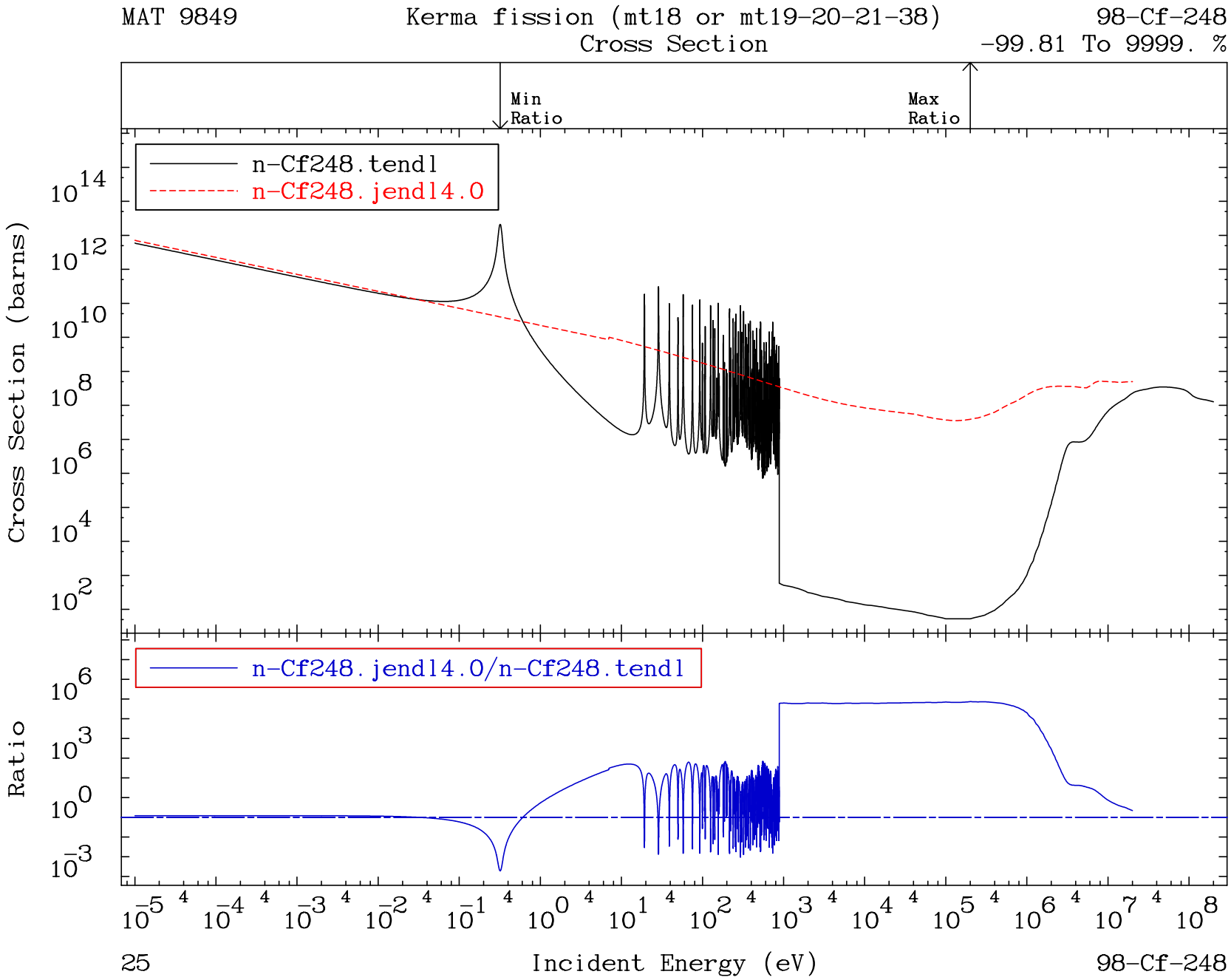

MAT 9849
(n,γ)
Cross Section
98-Cf-248
-87.07 To 9999. %
Max Ratio
Min Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
20
98-Cf-248

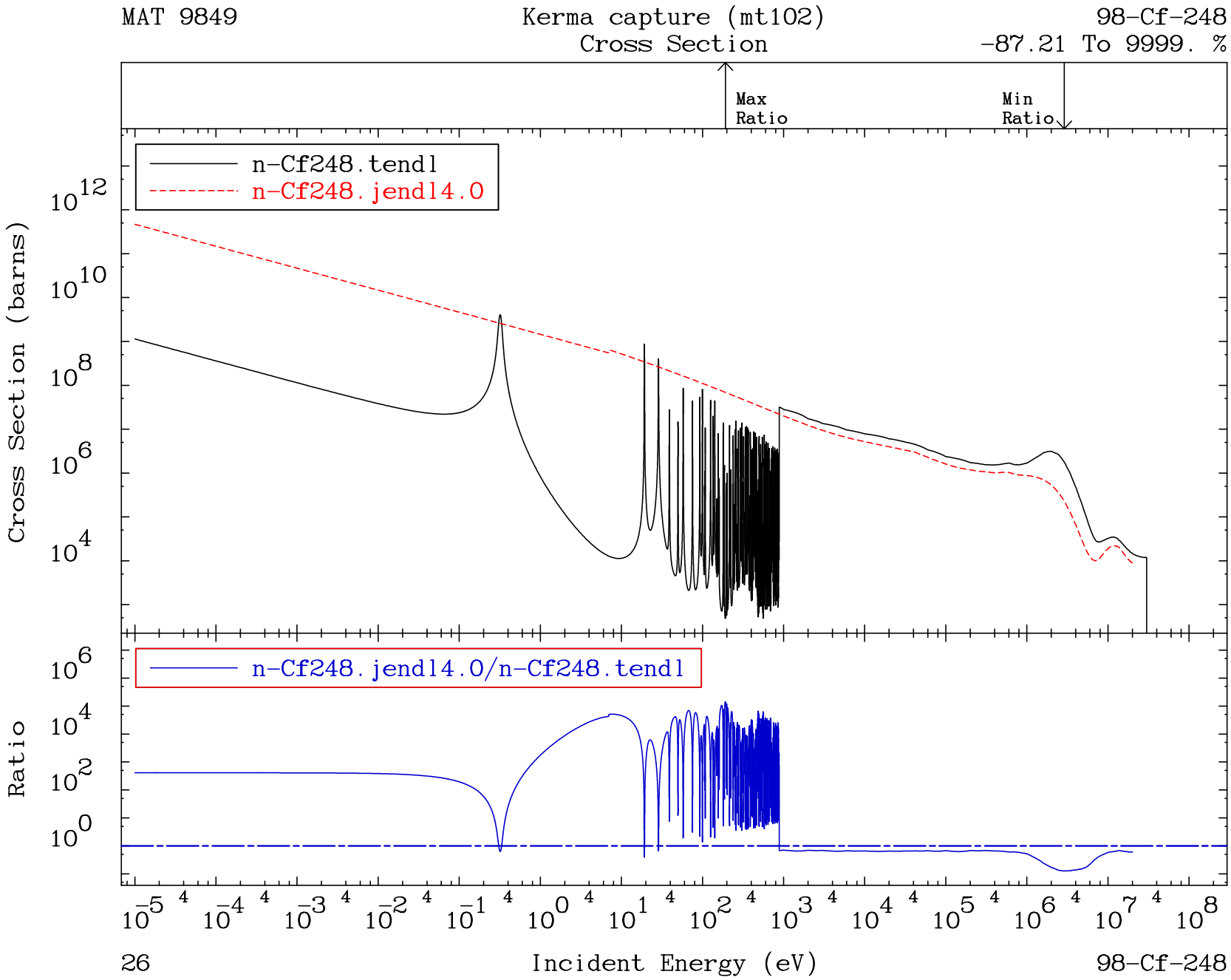

MAT 9849
Kerma total (eV-barns)
Cross Section
98-Cf-248
-99.80 To 9999. %
Min Ratio
Max Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
21
98-Cf-248

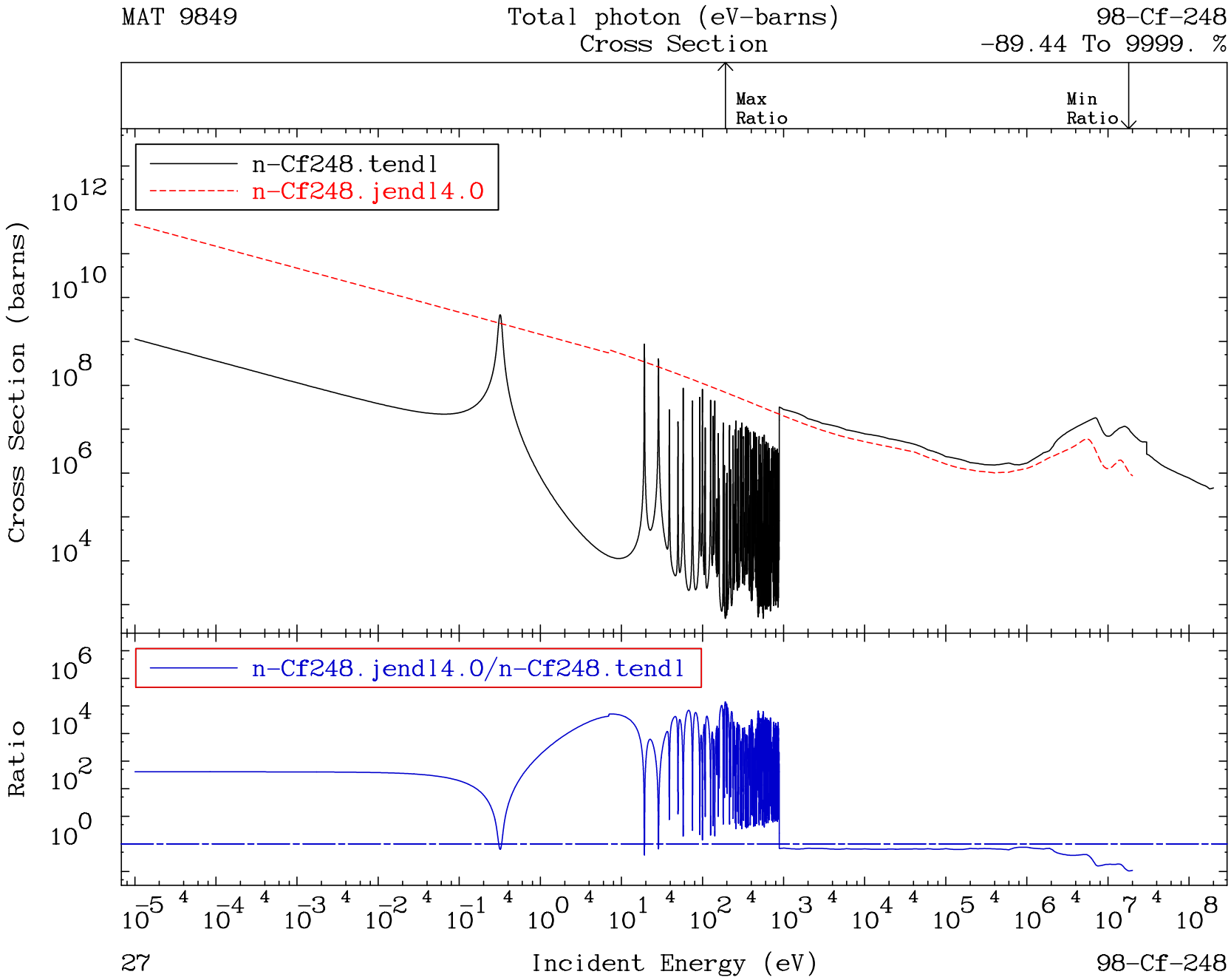

MAT 9849
Kerma elastic
Cross Section
98-Cf-248
-99.83 To 9999. %
Max Ratio
Min Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
22
98-Cf-248

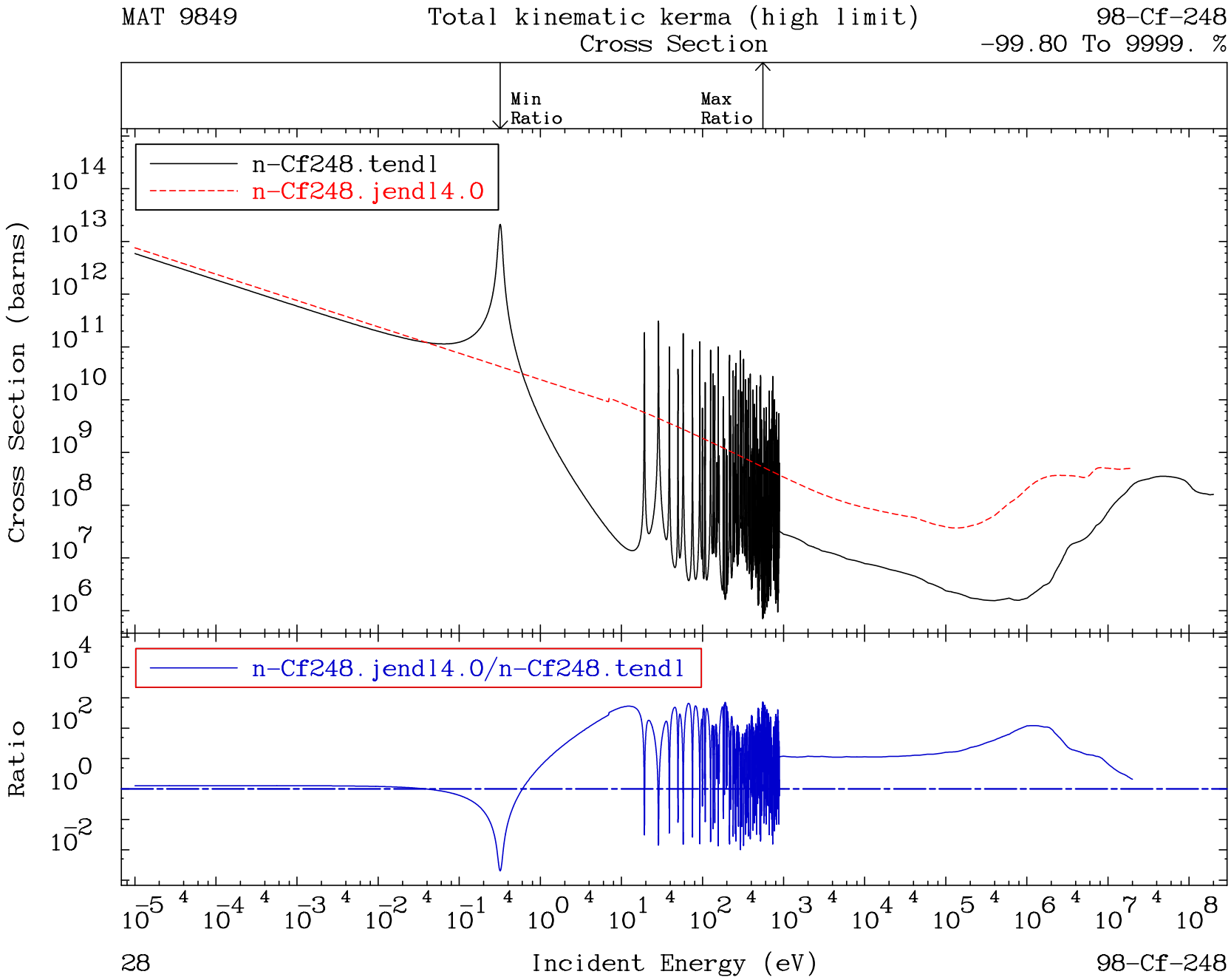

MAT 9849
Kerma non-elastic (all but mt2)
Cross Section
98-Cf-248
-99.80 To 9999. %
Min Ratio
Max Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
23
98-Cf-248

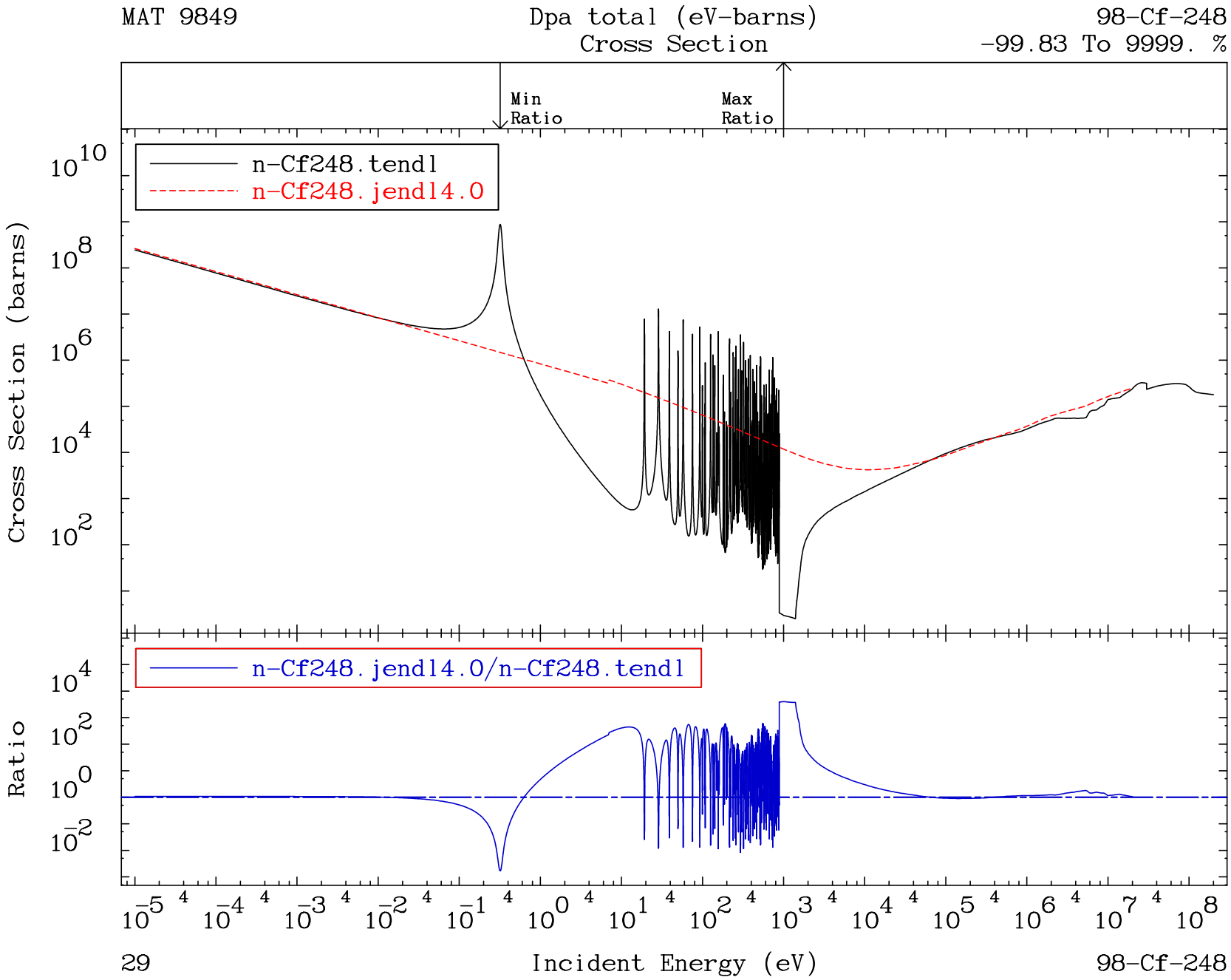

MAT 9849
Kerma inelastic (mt51-91)
Cross Section
98-Cf-248
-83.90 To 33.57 %
Max Ratio
Min Ratio
n-Cf248.tendl Threshold 41.699 keV
n-Cf248.jendl4.0 Threshold 41.699 keV
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
24
98-Cf-248

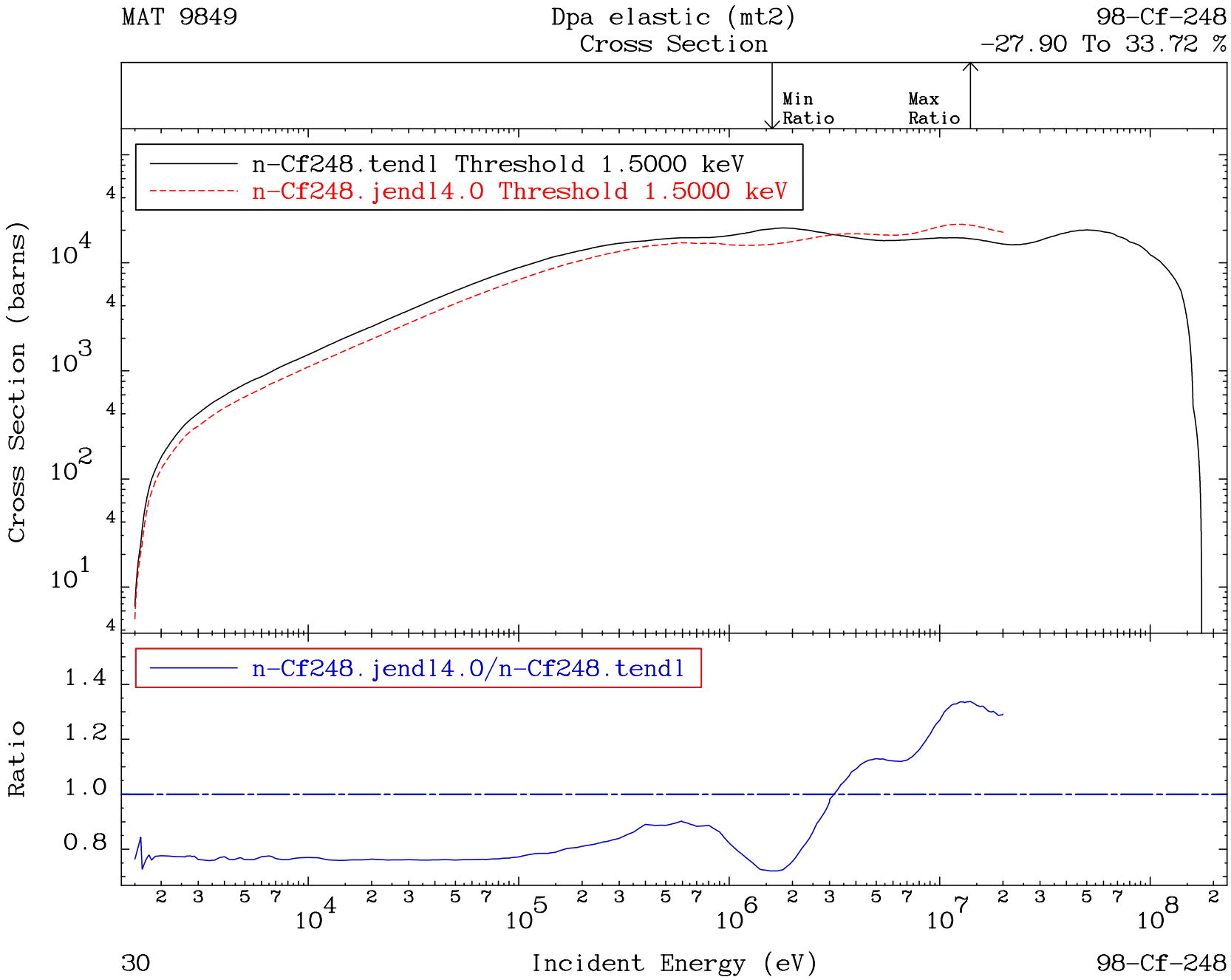

MAT 9849
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
98-Cf-248
-99.81 To 9999. %
Min Ratio
Max Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
25
98-Cf-248

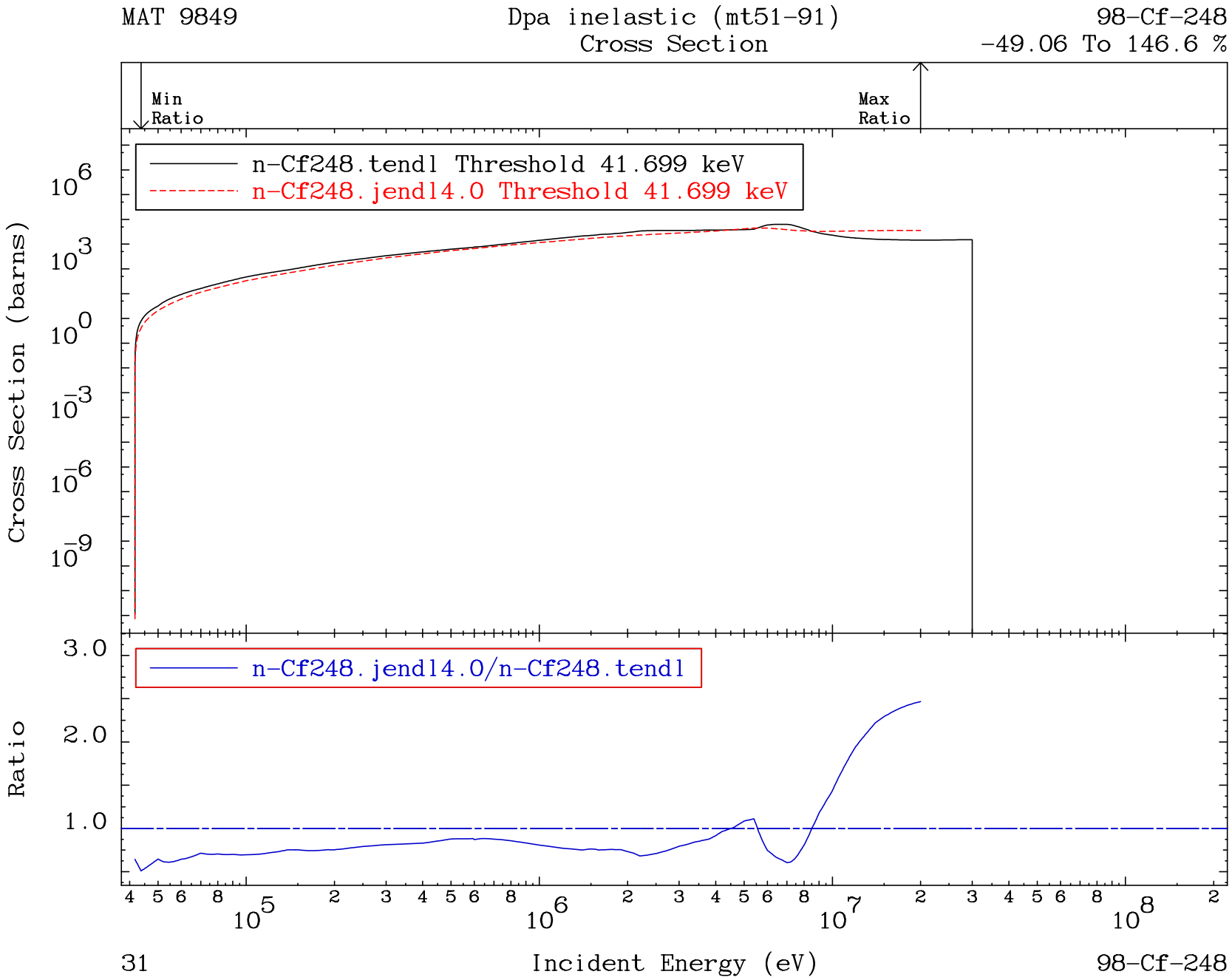

MAT 9849
Kerma capture (mt102)
Cross Section
98-Cf-248
-87.21 To 9999. %
Max Ratio
Min Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
26
98-Cf-248

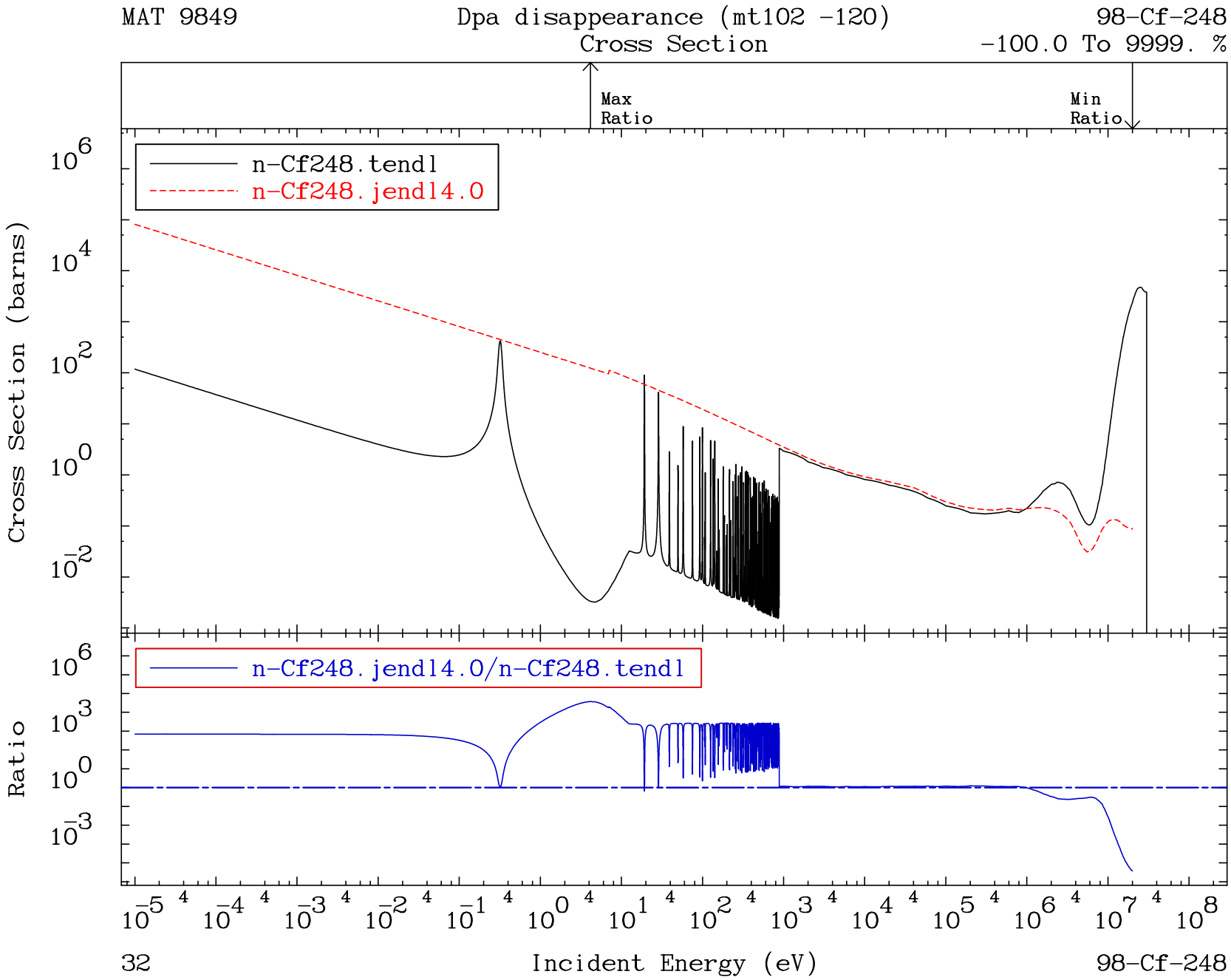

MAT 9849
Total photon (eV-barns)
Cross Section
98-Cf-248
-89.44 To 9999. %
Max Ratio
Min Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
27
98-Cf-248


MAT 9849
Total kinematic kerma (high limit)
Cross Section
98-Cf-248
-99.80 To 9999. %
Min Ratio
Max Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
28
98-Cf-248


MAT 9849
Dpa total (eV-barns)
Cross Section
98-Cf-248
-99.83 To 9999. %
Min Ratio
Max Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
29
98-Cf-248


MAT 9849
Dpa elastic (mt2)
Cross Section
98-Cf-248
-27.90 To 33.72 %
Min Ratio
Max Ratio
n-Cf248.tendl Threshold 1.5000 keV
n-Cf248.jendl4.0 Threshold 1.5000 keV
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
30
98-Cf-248


MAT 9849
Dpa inelastic (mt51-91)
Cross Section
98-Cf-248
-49.06 To 146.6 %
Min Ratio
Max Ratio
n-Cf248.tendl Threshold 41.699 keV
n-Cf248.jendl4.0 Threshold 41.699 keV
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
31
98-Cf-248


MAT 9849
Dpa disappearance (mt102 -120)
Cross Section
98-Cf-248
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cf248.tendl
n-Cf248.jendl4.0
Cross Section (barns)
n-Cf248.jendl4.0/n-Cf248.tendl
Ratio
Incident Energy (eV)
32
98-Cf-248