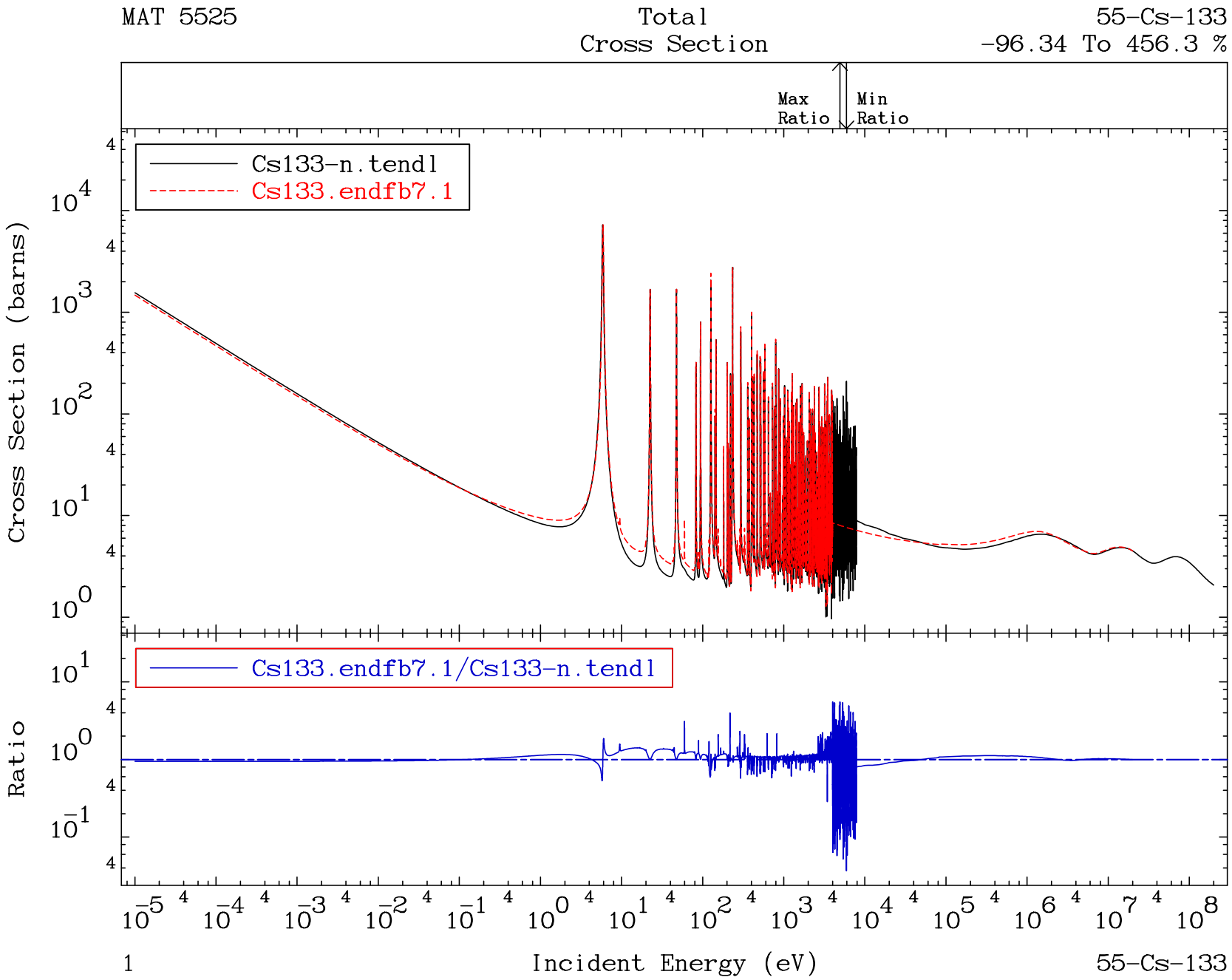
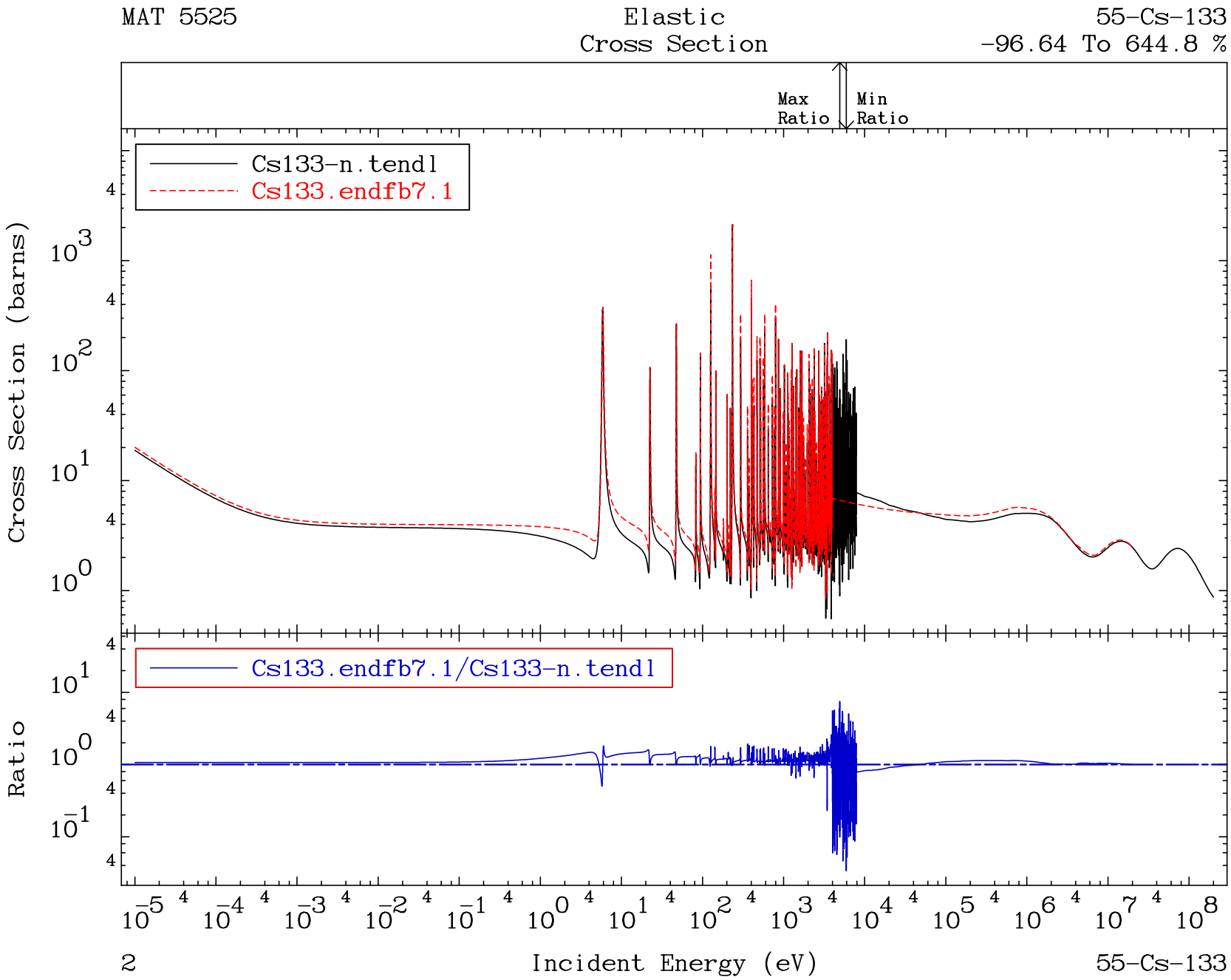
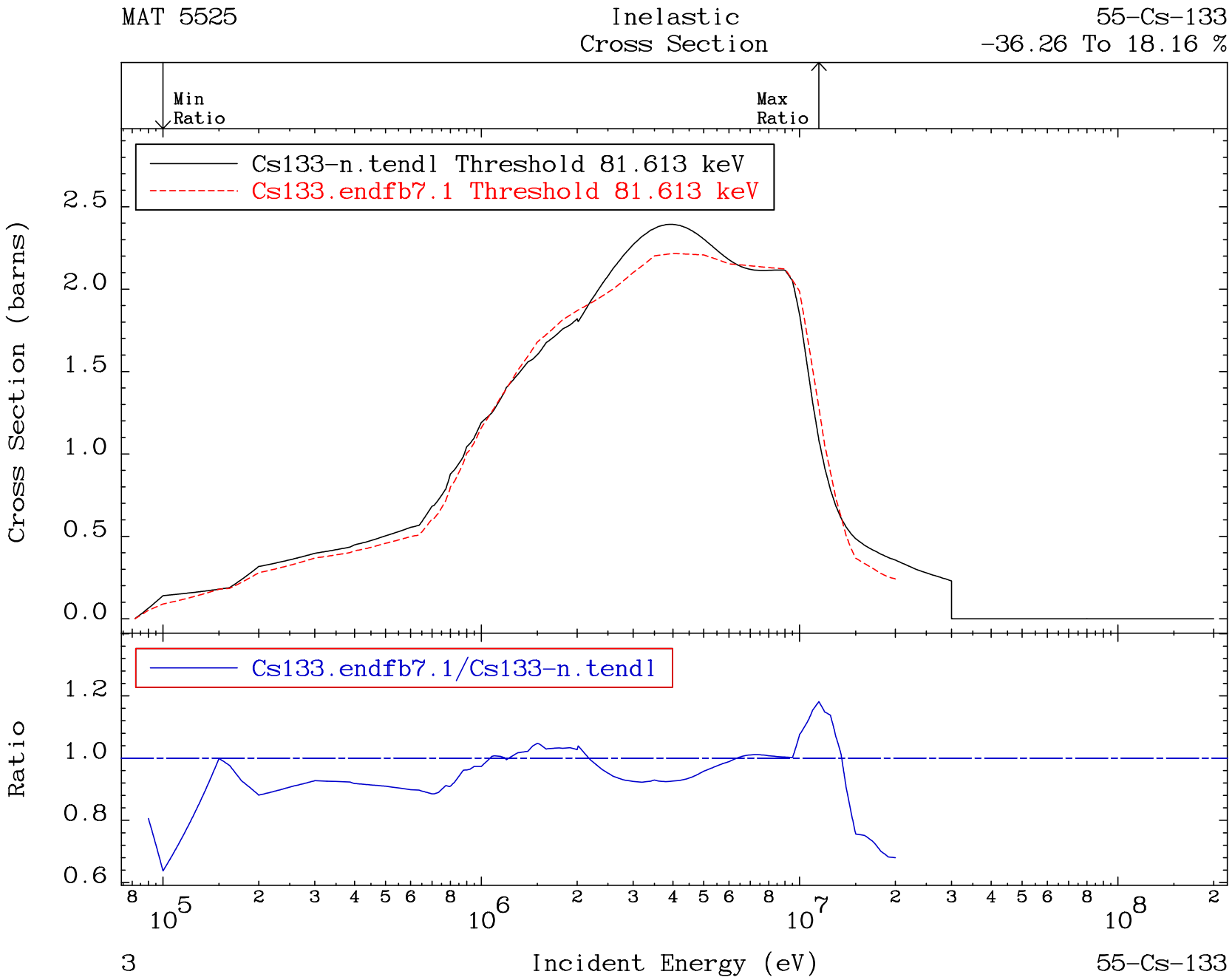
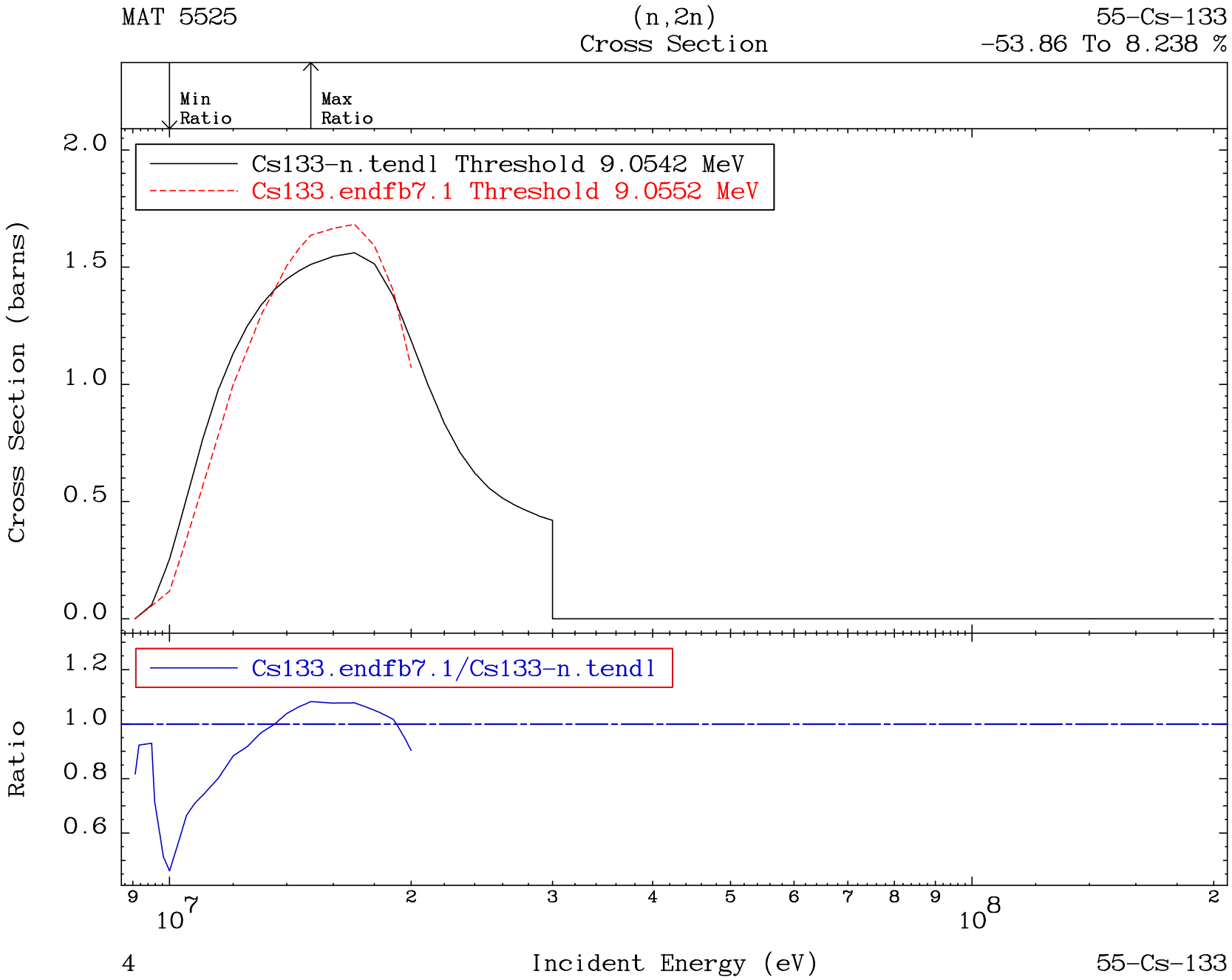
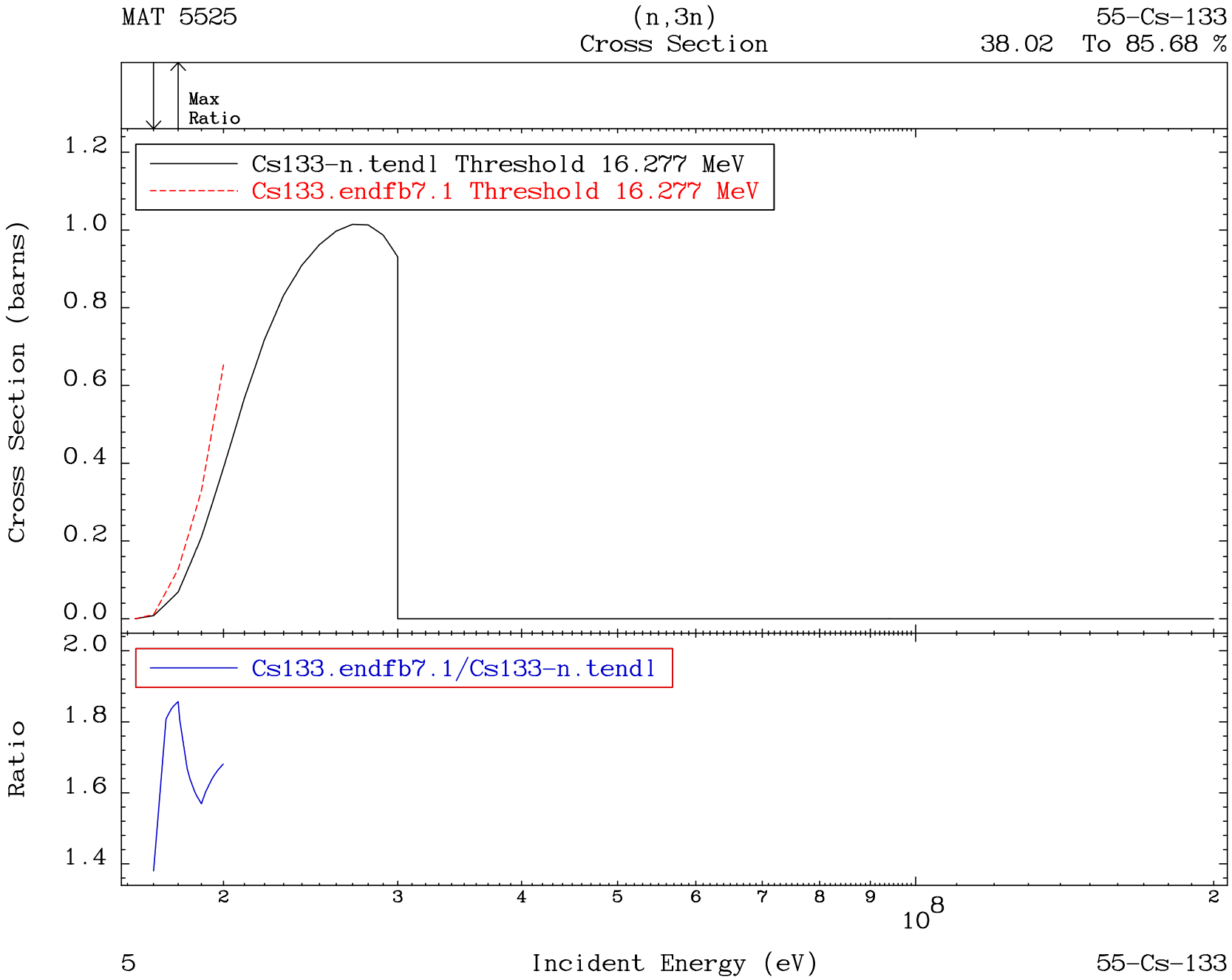
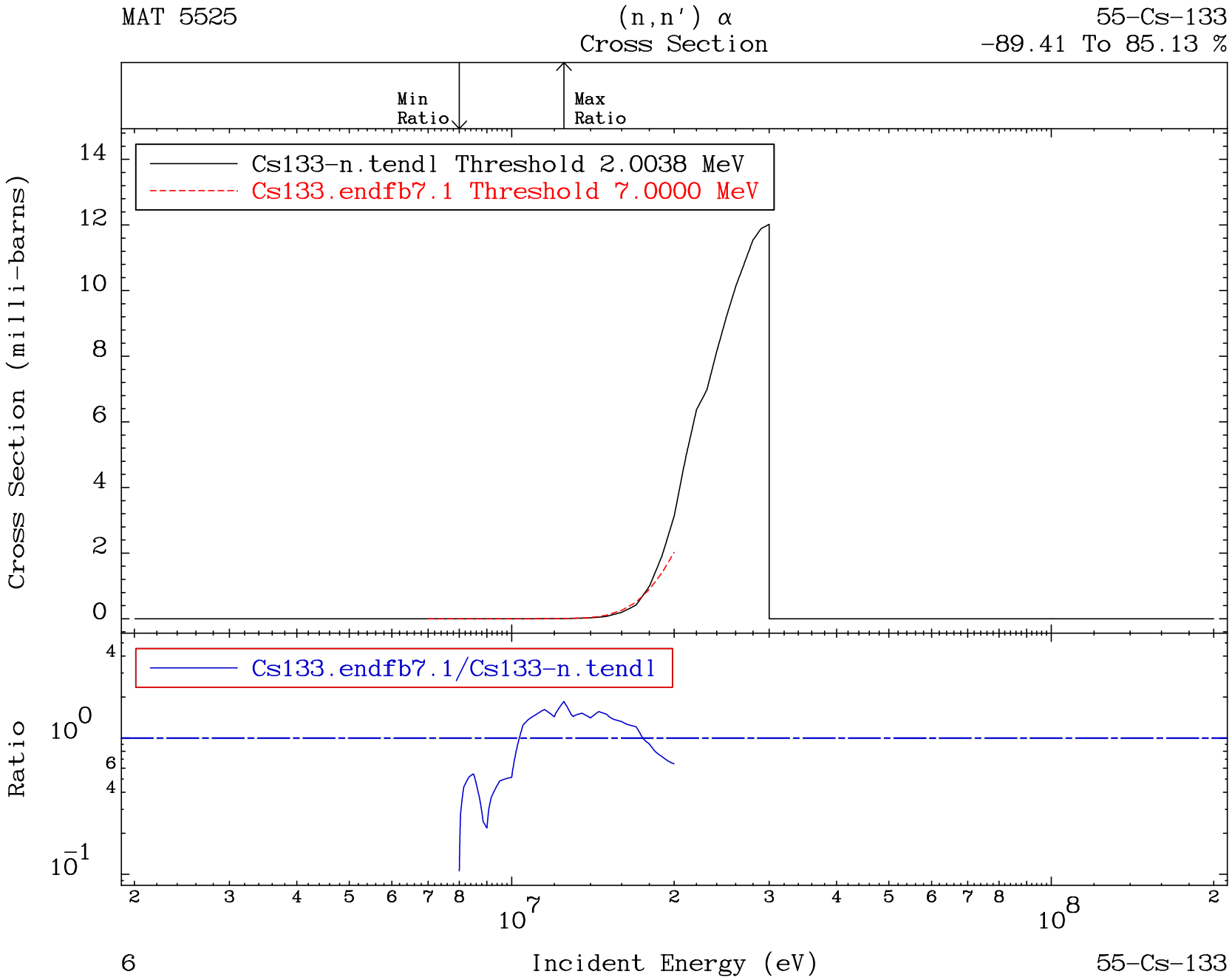

MAT 5525
Total
Cross Section
55-Cs-133
-96.34 To 456.3 %
Max
Ratio
Min
Ratio
Cs133-n.tendl
Cs133.endfb7.1
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
1
55-Cs-133

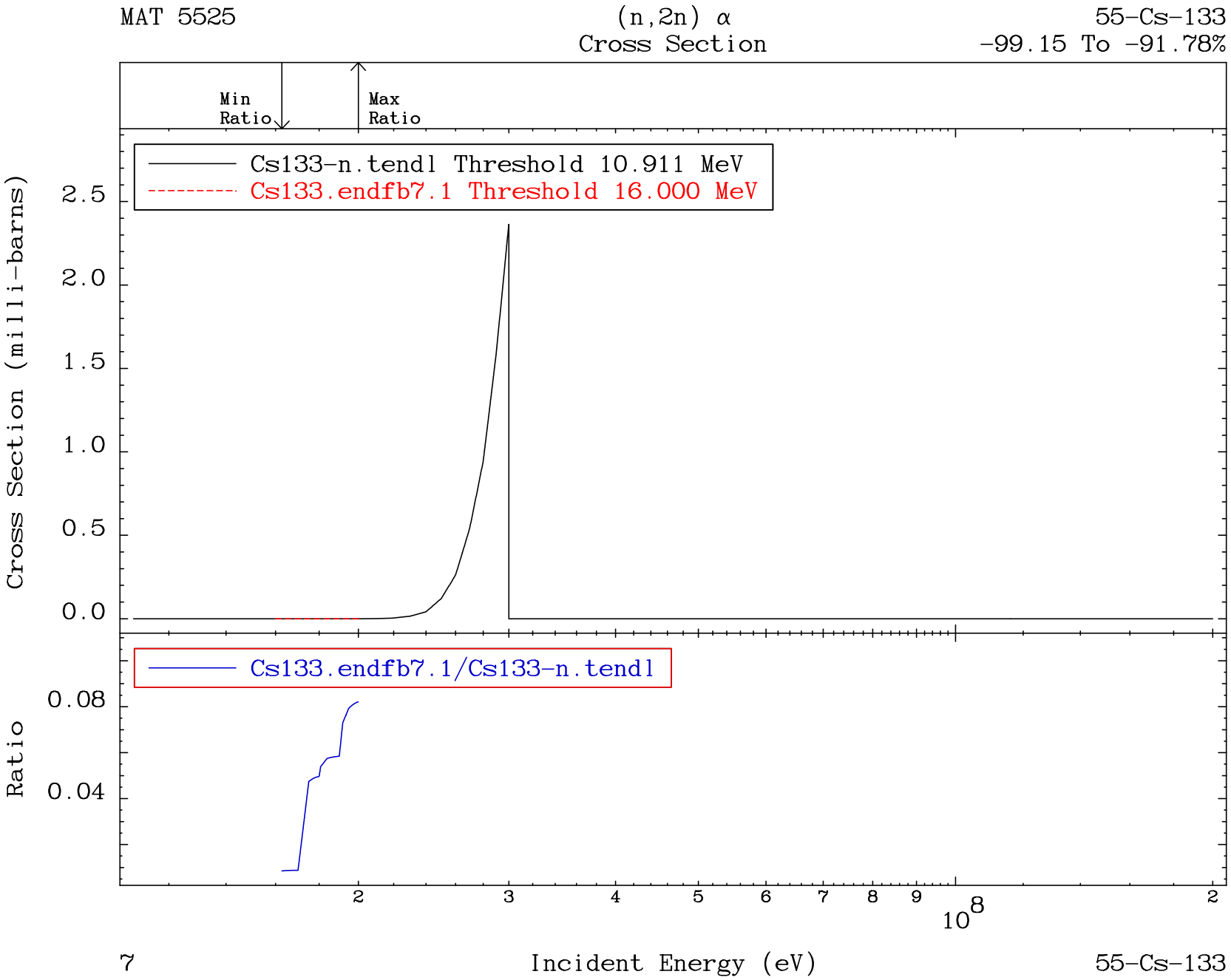

MAT 5525
Elastic
Cross Section
55-Cs-133
-96.64 To 644.8 %
Max Ratio
Min Ratio
Cs133-n.tendl
Cs133.endfb7.1
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
2
55-Cs-133

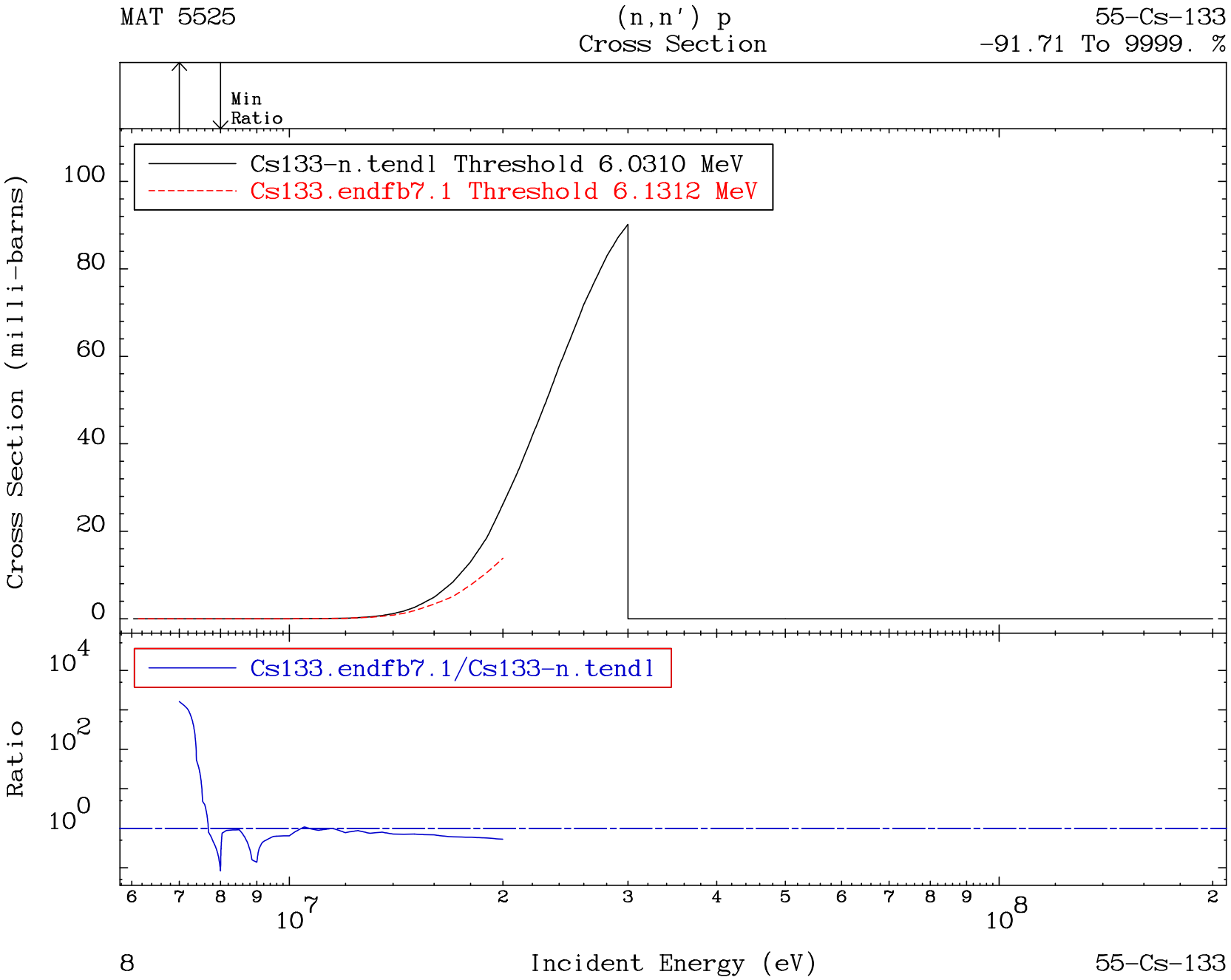

MAT 5525
Inelastic
Cross Section
55-Cs-133
-36.26 To 18.16 %
Min
Ratio
Max
Ratio
Cs133-n.tendl Threshold 81.613 keV
Cs133.endfb7.1 Threshold 81.613 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
1.2
1.0
0.8
0.6
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
55-Cs-133

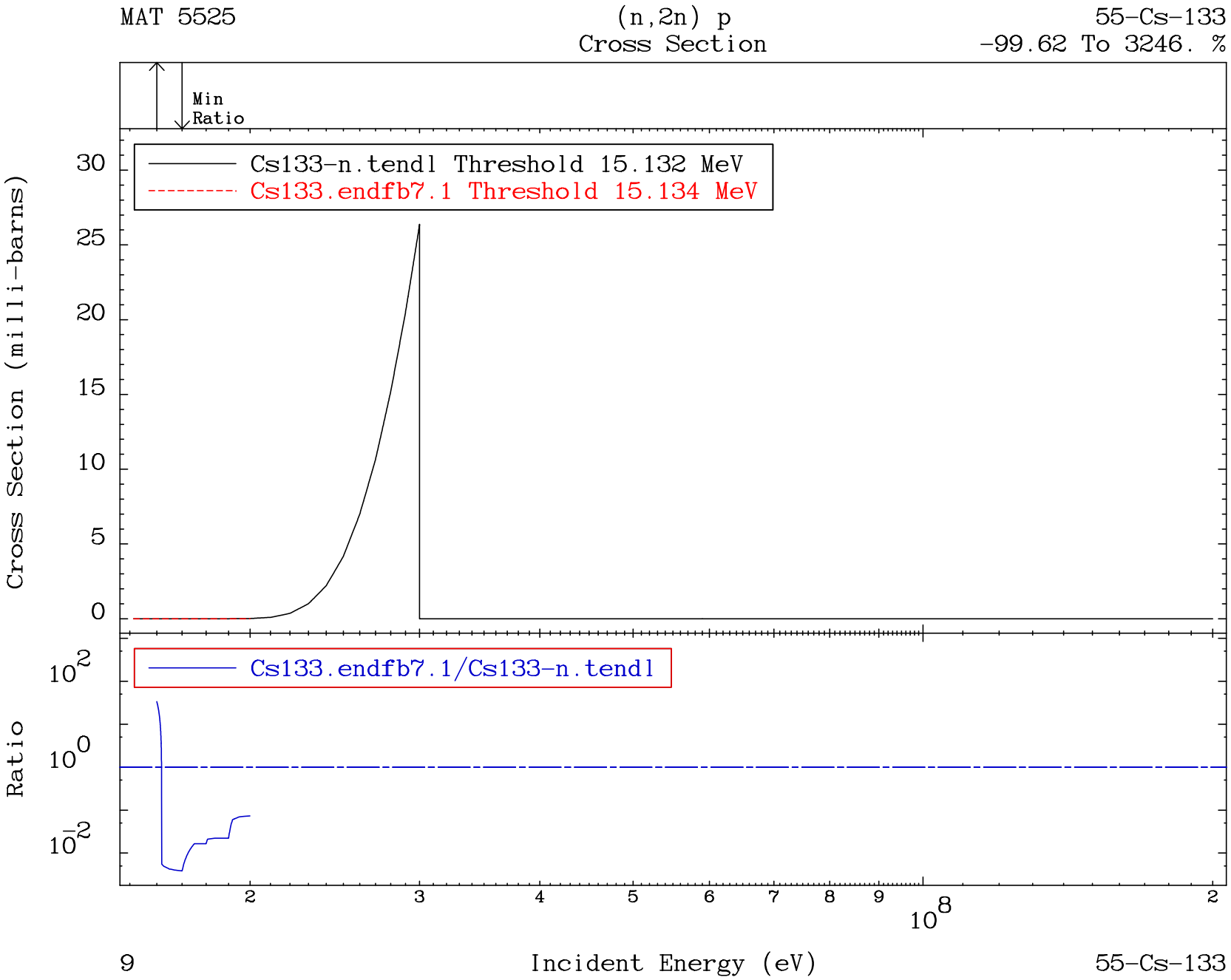

MAT 5525
(n,2n)
Cross Section
55-Cs-133
-53.86 To 8.238 %
Min Ratio
Max Ratio
Cs133-n.tendl Threshold 9.0542 MeV
Cs133.endfb7.1 Threshold 9.0552 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
1.2
1.0
0.8
0.6
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
55-Cs-133

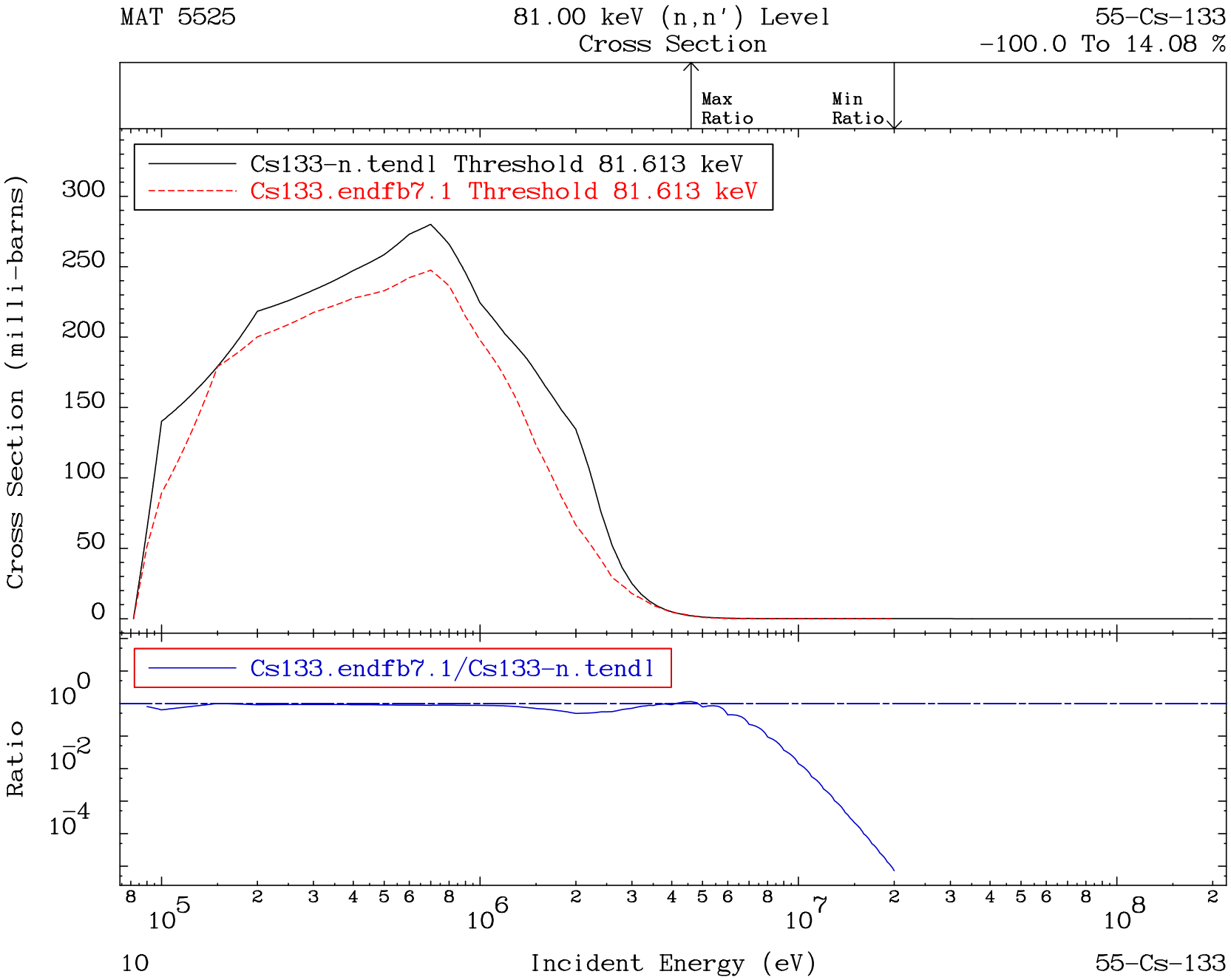

MAT 5525
(n,3n)
Cross Section
55-Cs-133
38.02 To 85.68 %
Max
Ratio
Cs133-n.tendl Threshold 16.277 MeV
Cs133.endfb7.1 Threshold 16.277 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
2.0
1.8
1.6
1.4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
55-Cs-133

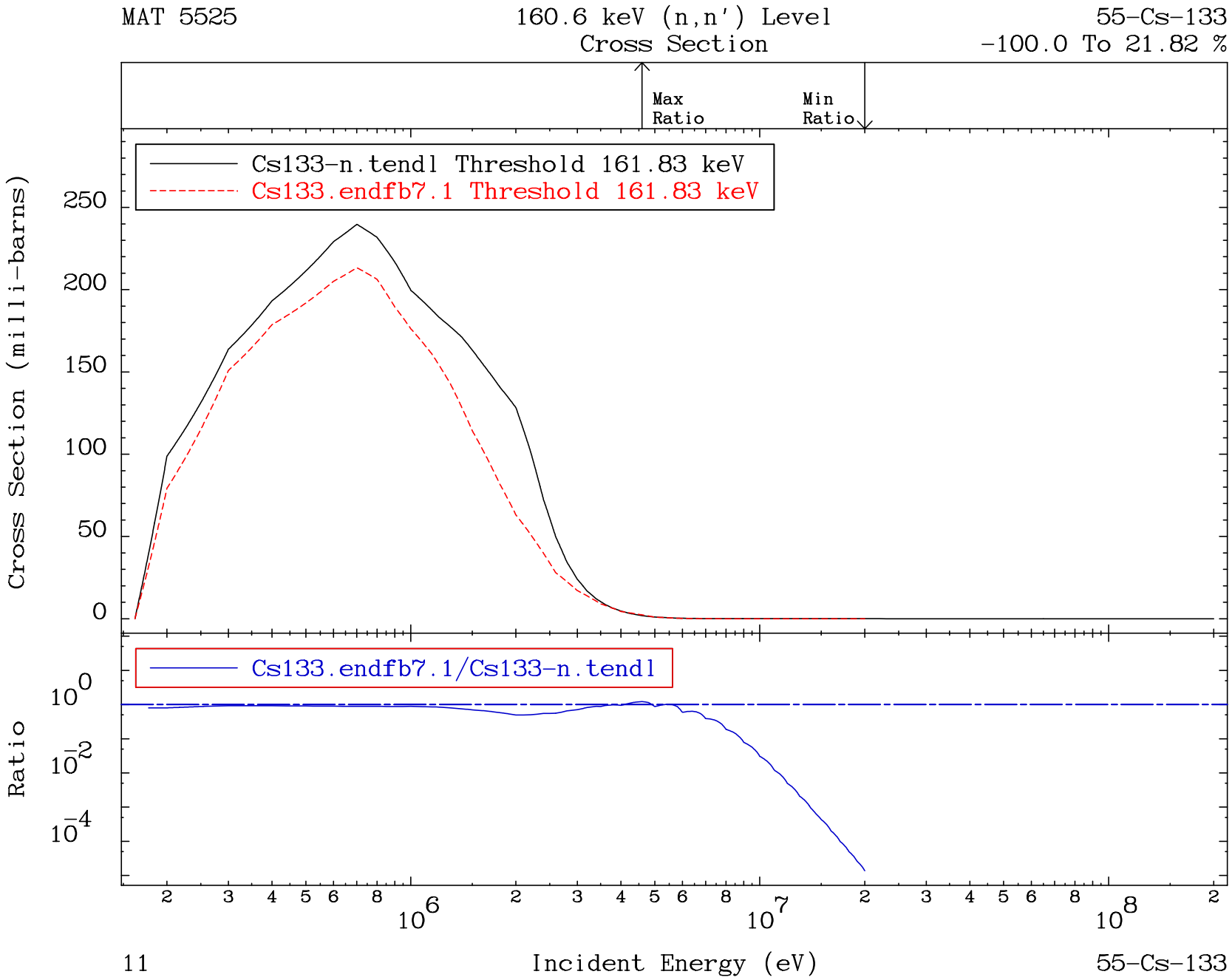

MAT 5525
(n,n') α
Cross Section
55-Cs-133
-89.41 To 85.13 %
Min Ratio
Max Ratio
Cs133-n.tendl Threshold 2.0038 MeV
Cs133.endfb7.1 Threshold 7.0000 MeV
Cross Section (milli-barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
6
55-Cs-133

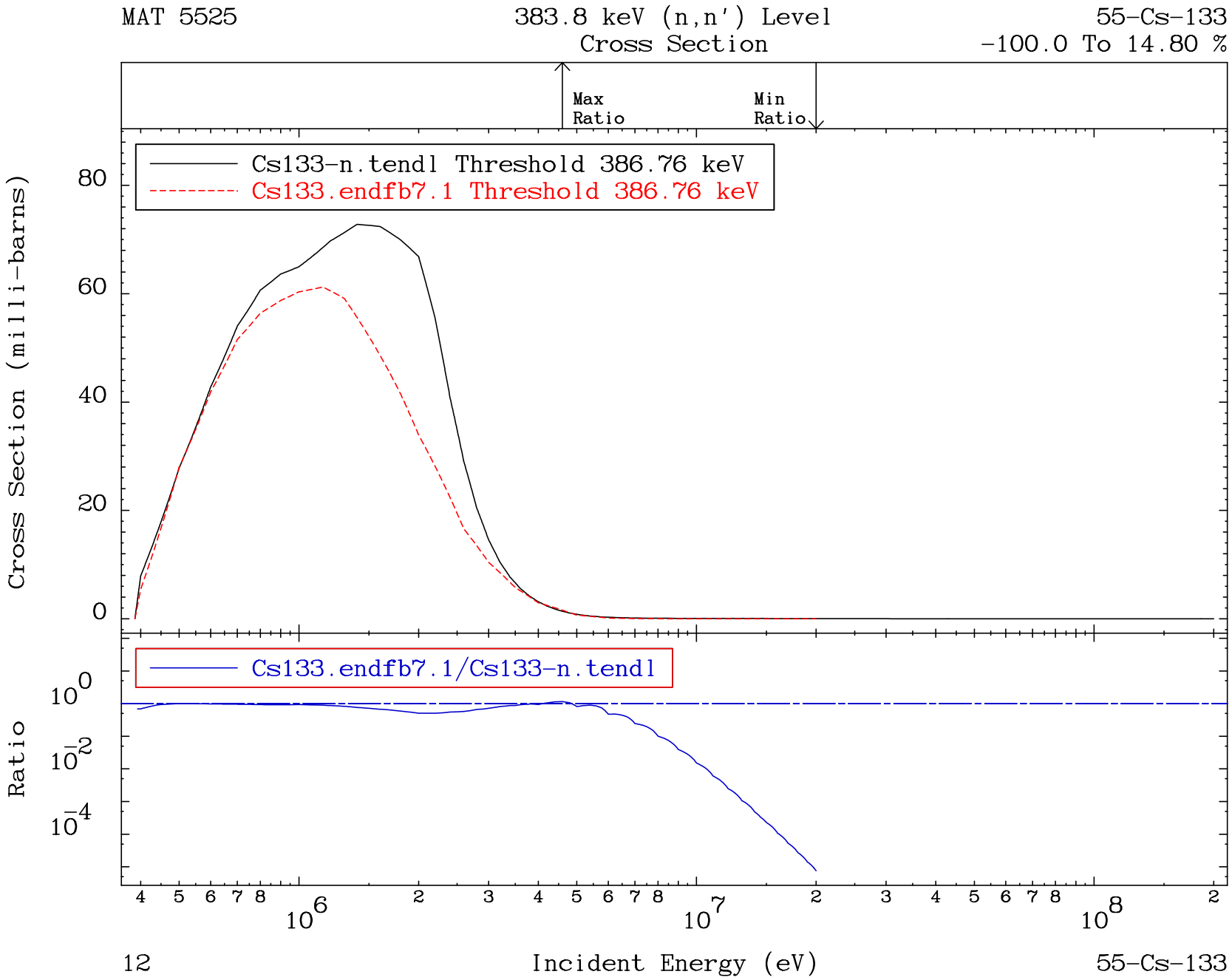

MAT 5525
(n,2n) α
Cross Section
55-Cs-133
-99.15 To -91.78%
Min Ratio
Max Ratio
Cs133-n.tendl Threshold 10.911 MeV
Cs133.endfb7.1 Threshold 16.000 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
0.08
0.04
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
55-Cs-133

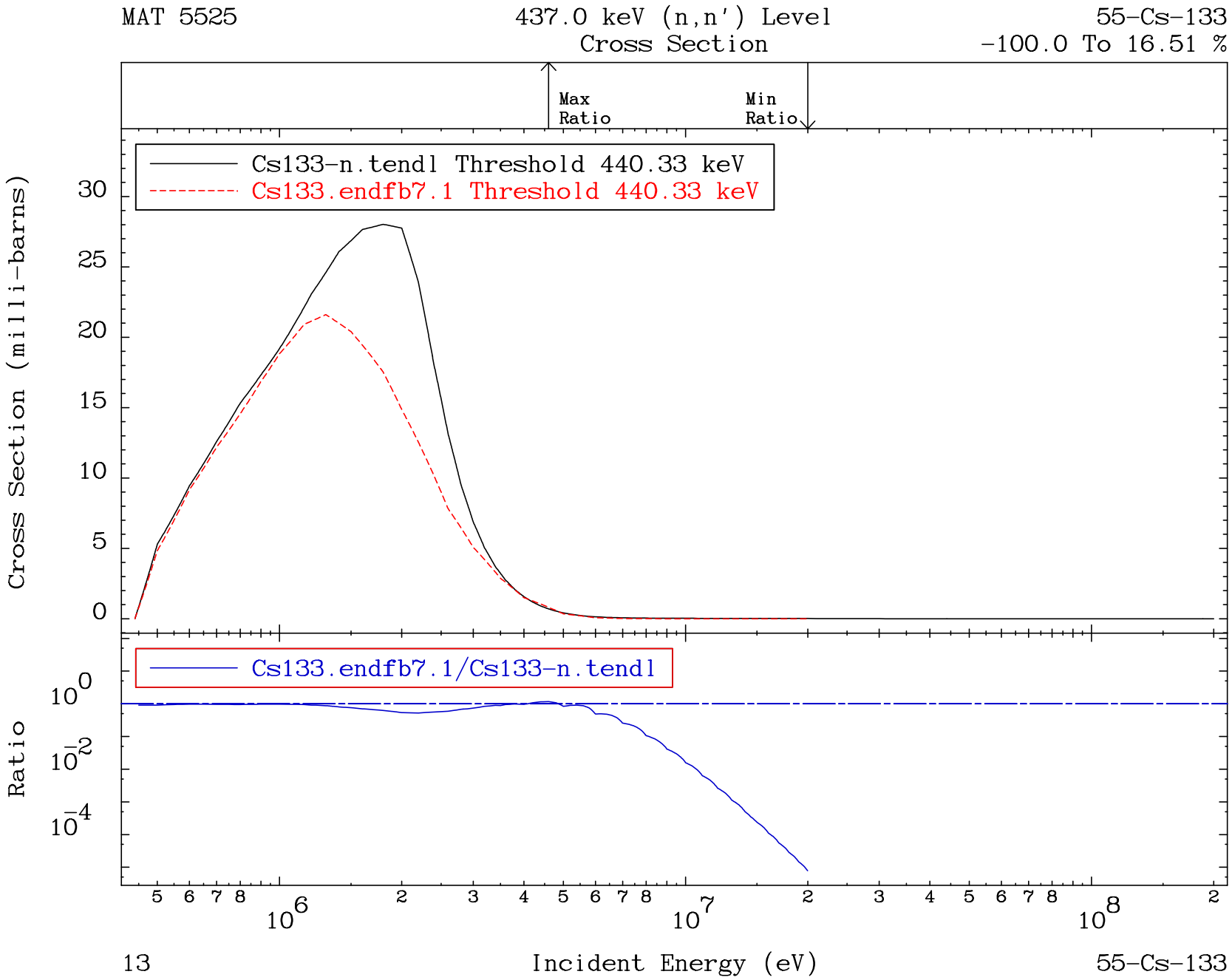

MAT 5525
(n,n') p
Cross Section
55-Cs-133
-91.71 To 9999. %
Min
Ratio
Cs133-n.tendl Threshold 6.0310 MeV
Cs133.endfb7.1 Threshold 6.1312 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^4
10^2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
55-Cs-133

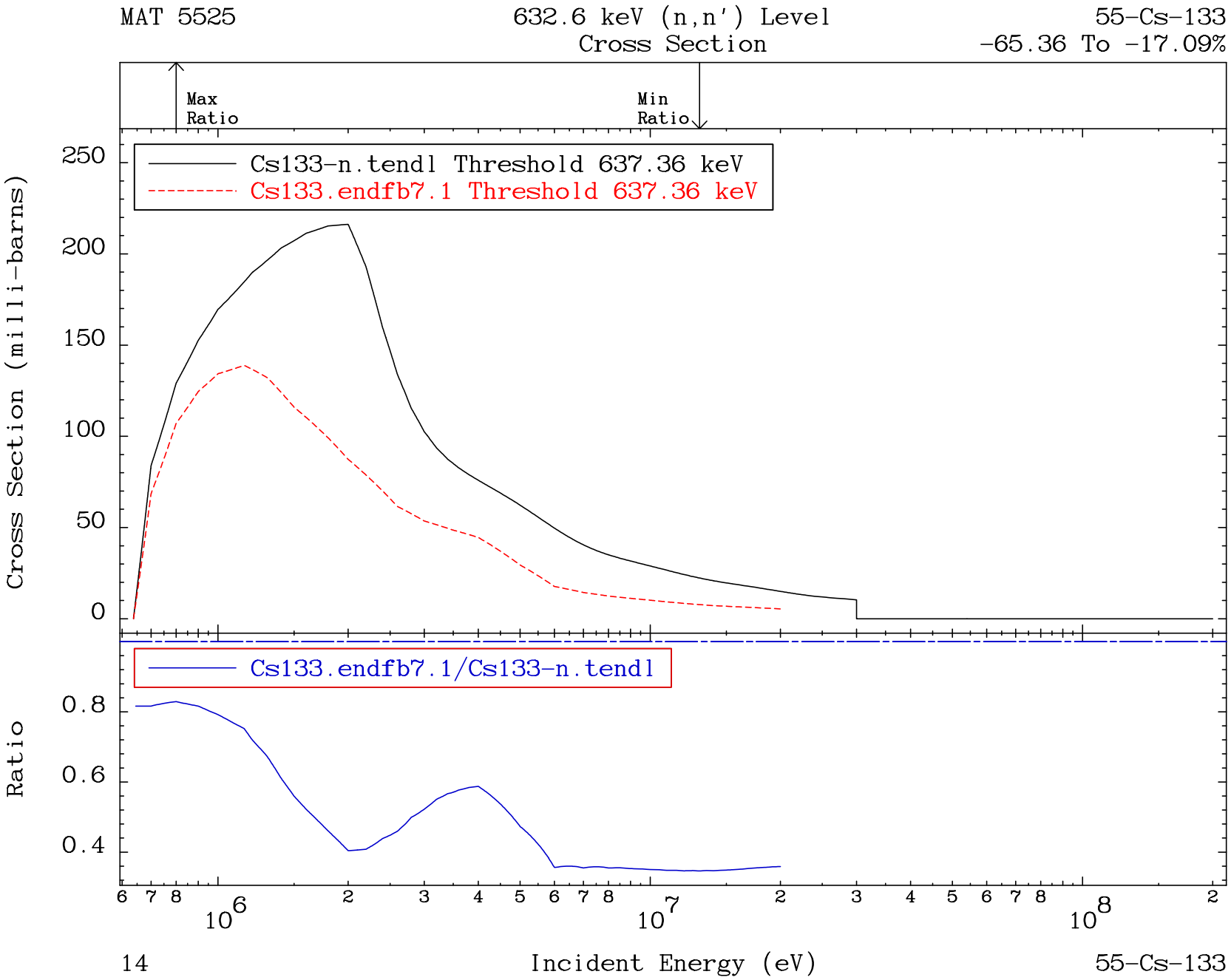

MAT 5525
(n,2n) p
Cross Section
55-Cs-133
-99.62 To 3246. %
Min
Ratio
Cs133-n.tendl Threshold 15.132 MeV
Cs133.endfb7.1 Threshold 15.134 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
55-Cs-133

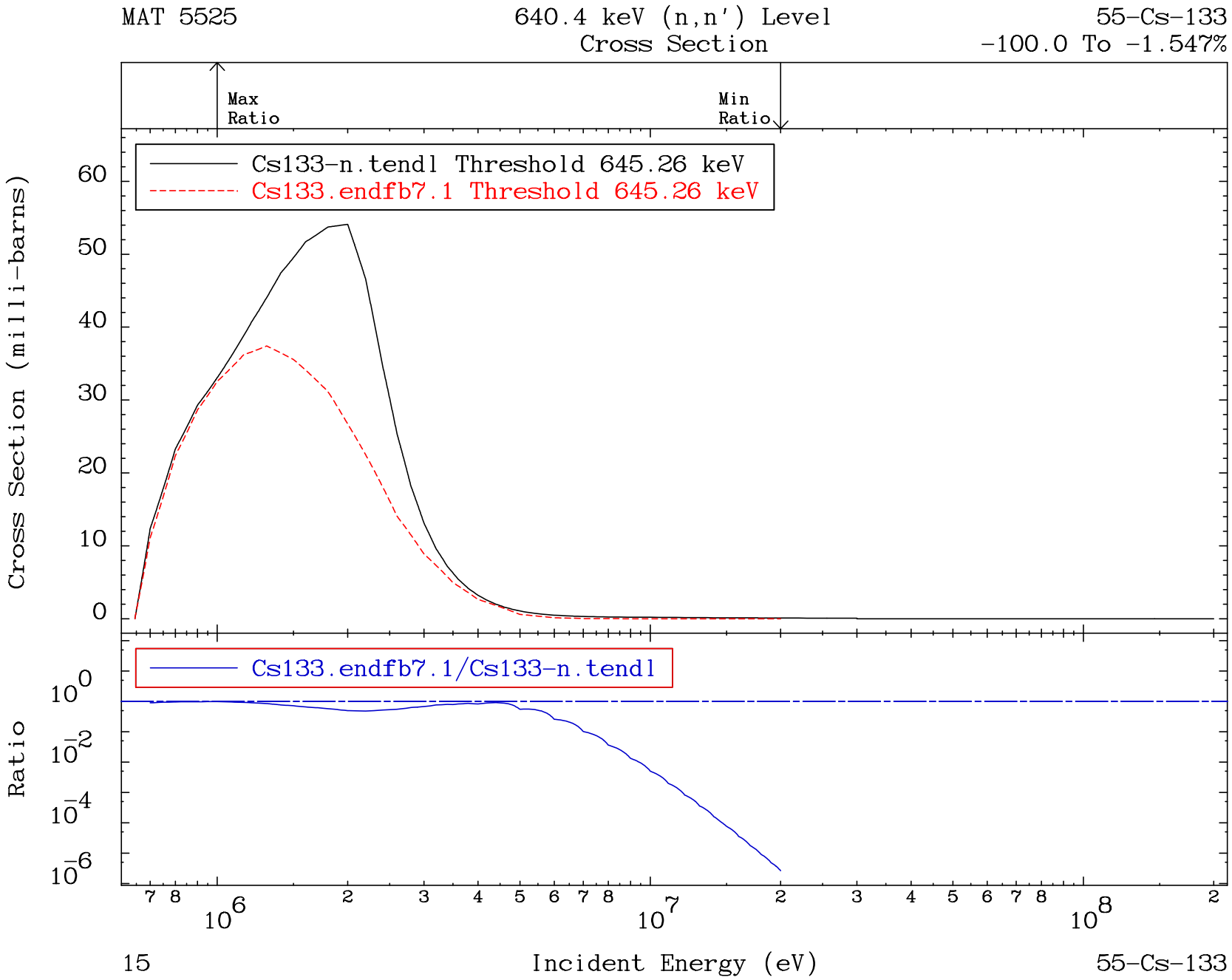

MAT 5525
81.00 keV (n,n') Level
Cross Section
55-Cs-133
-100.0 To 14.08 %
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 81.613 keV
Cs133.endfb7.1 Threshold 81.613 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-2
10^-4
10
10^5
10^6
10^7
10^8
Incident Energy (eV)
55-Cs-133

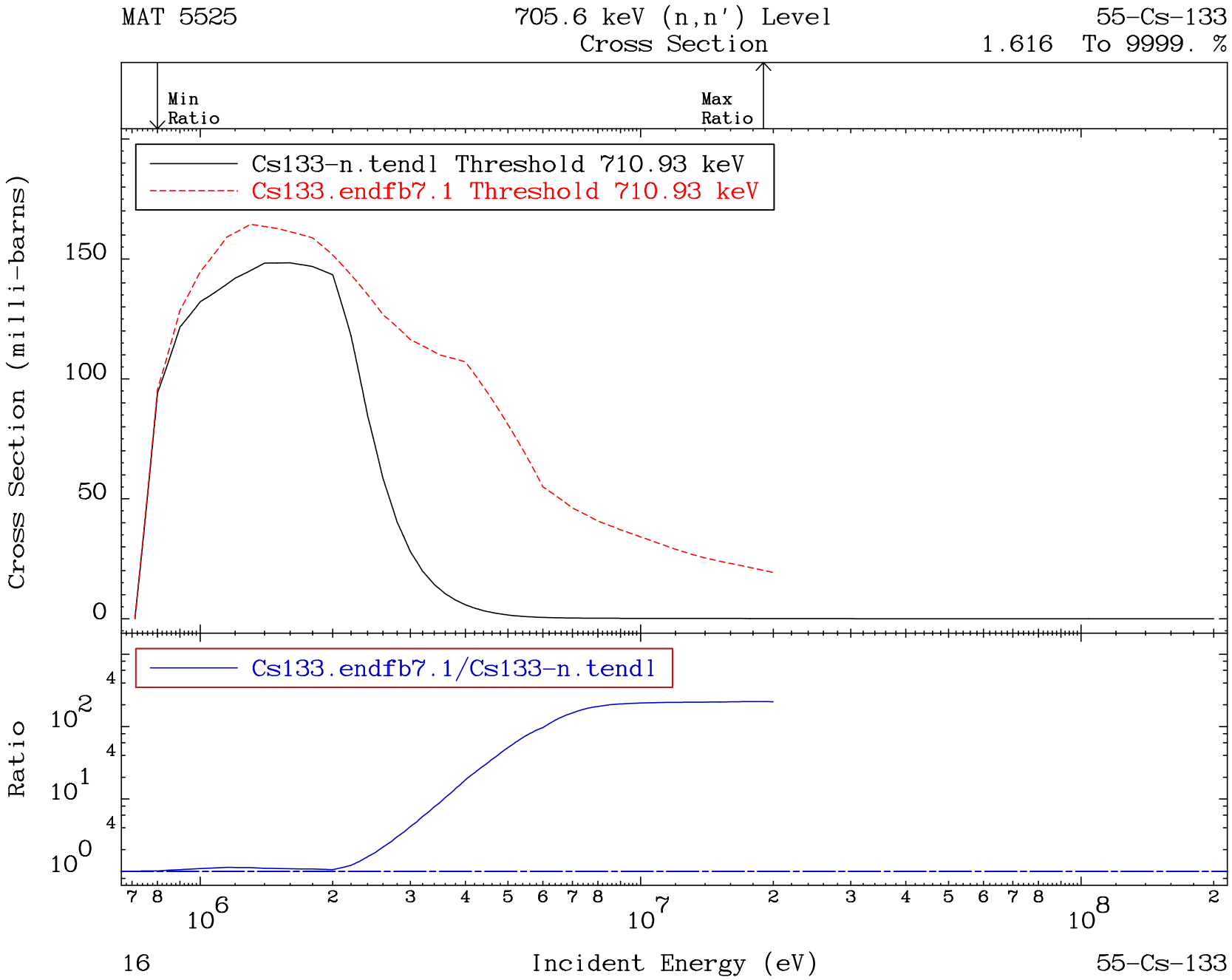

MAT 5525
160.6 keV (n,n') Level
Cross Section
55-Cs-133
-100.0 To 21.82 %
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 161.83 keV
Cs133.endfb7.1 Threshold 161.83 keV
Cross Section (milli-barns)
250
200
150
100
50
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-2
10^-4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
55-Cs-133

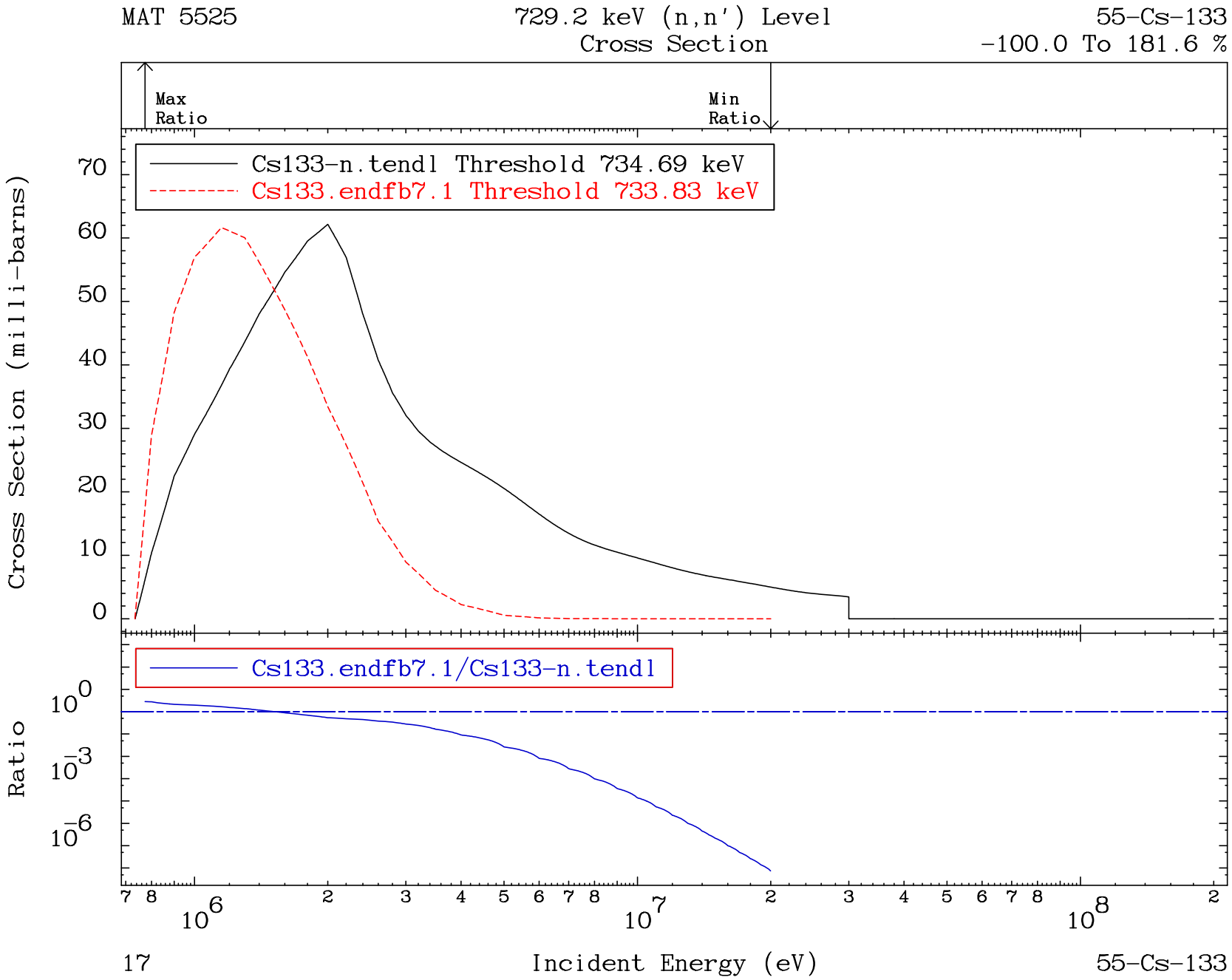

MAT 5525
383.8 keV (n,n') Level
Cross Section
55-Cs-133
-100.0 To 14.80 %
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 386.76 keV
Cs133.endfb7.1 Threshold 386.76 keV
Cross Section (milli-barns)
80
60
40
20
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-2
10^-4
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
12
Incident Energy (eV)
55-Cs-133

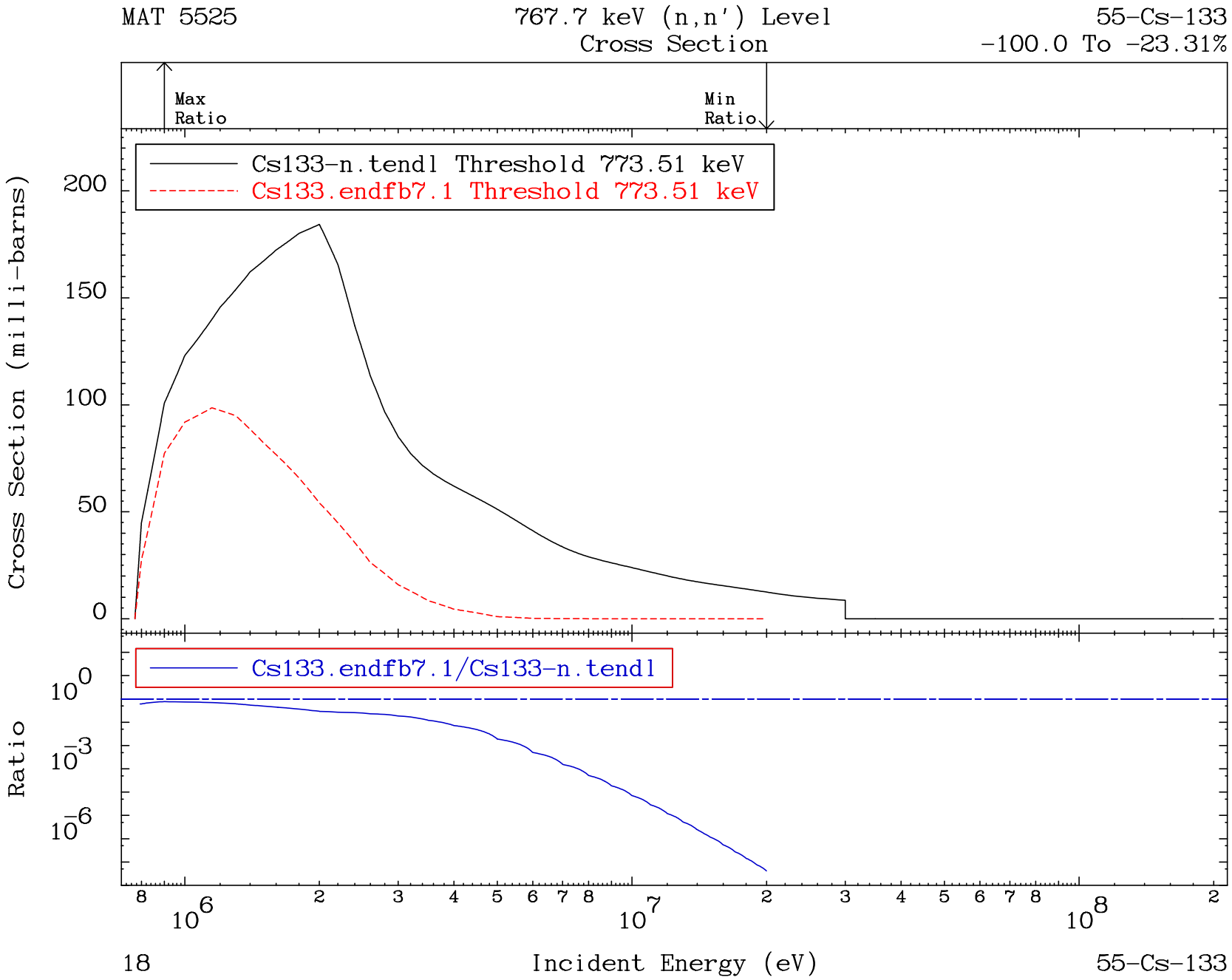

MAT 5525
437.0 keV (n,n') Level
Cross Section
55-Cs-133
-100.0 To 16.51 %
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 440.33 keV
Cs133.endfb7.1 Threshold 440.33 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-2
10^-4
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
55-Cs-133

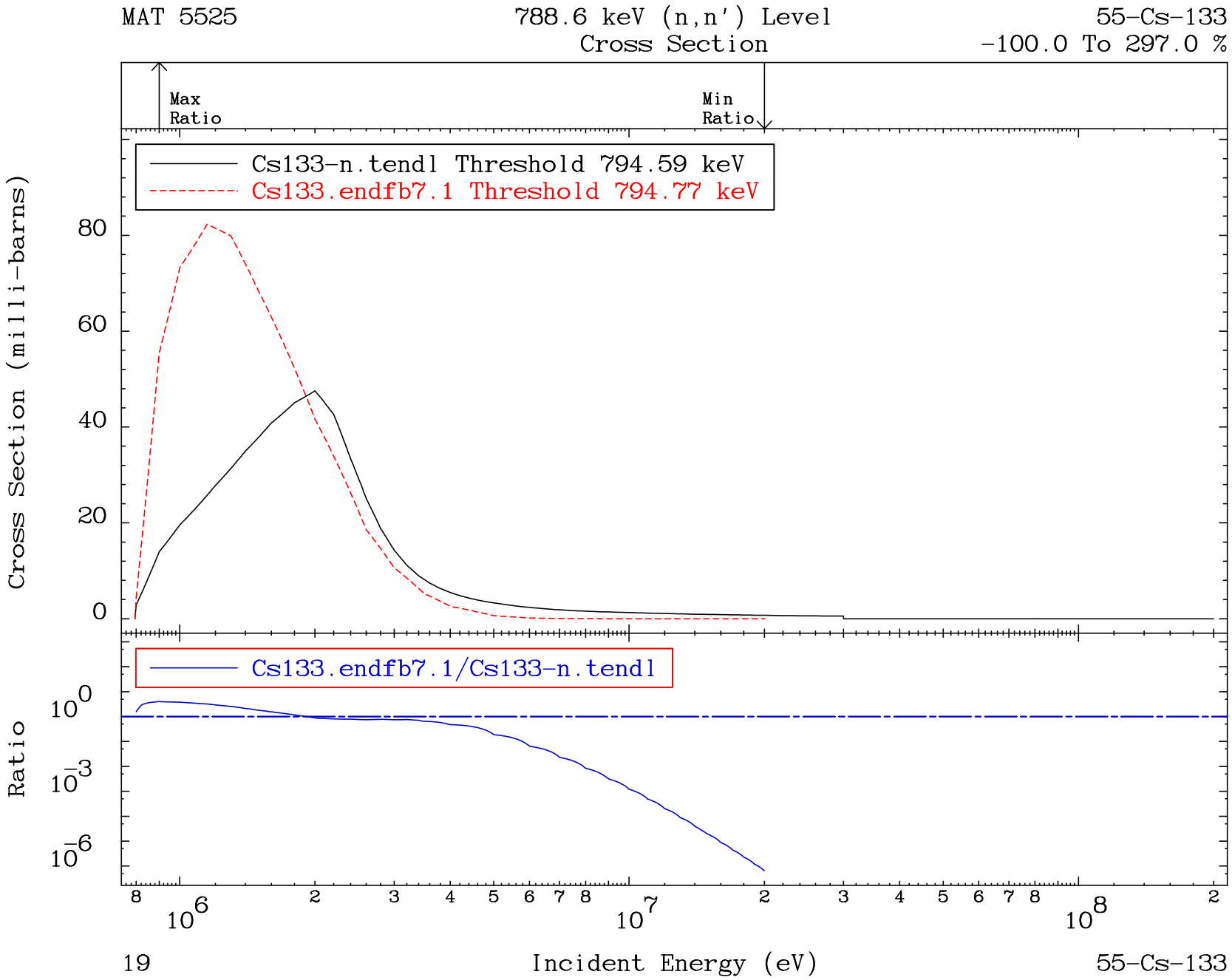

MAT 5525
632.6 keV (n,n') Level
Cross Section
55-Cs-133
-65.36 To -17.09%
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 637.36 keV
Cs133.endfb7.1 Threshold 637.36 keV
Cross Section (milli-barns)
250
200
150
100
50
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
0.8
0.6
0.4
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
55-Cs-133

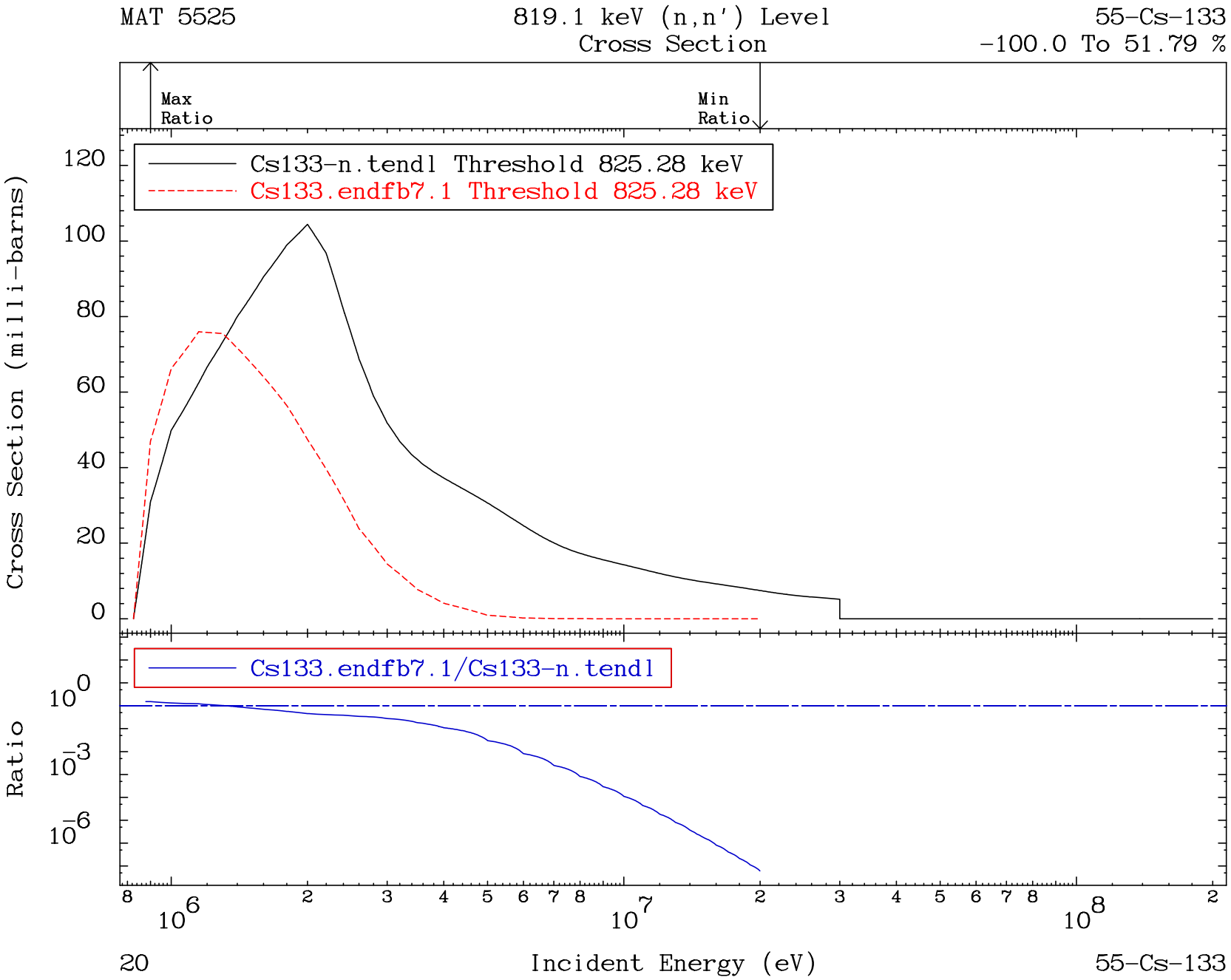

MAT 5525
640.4 keV (n,n') Level
Cross Section
55-Cs-133
-100.0 To -1.547%
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 645.26 keV
Cs133.endfb7.1 Threshold 645.26 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-2
10^-4
10^-6
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
55-Cs-133

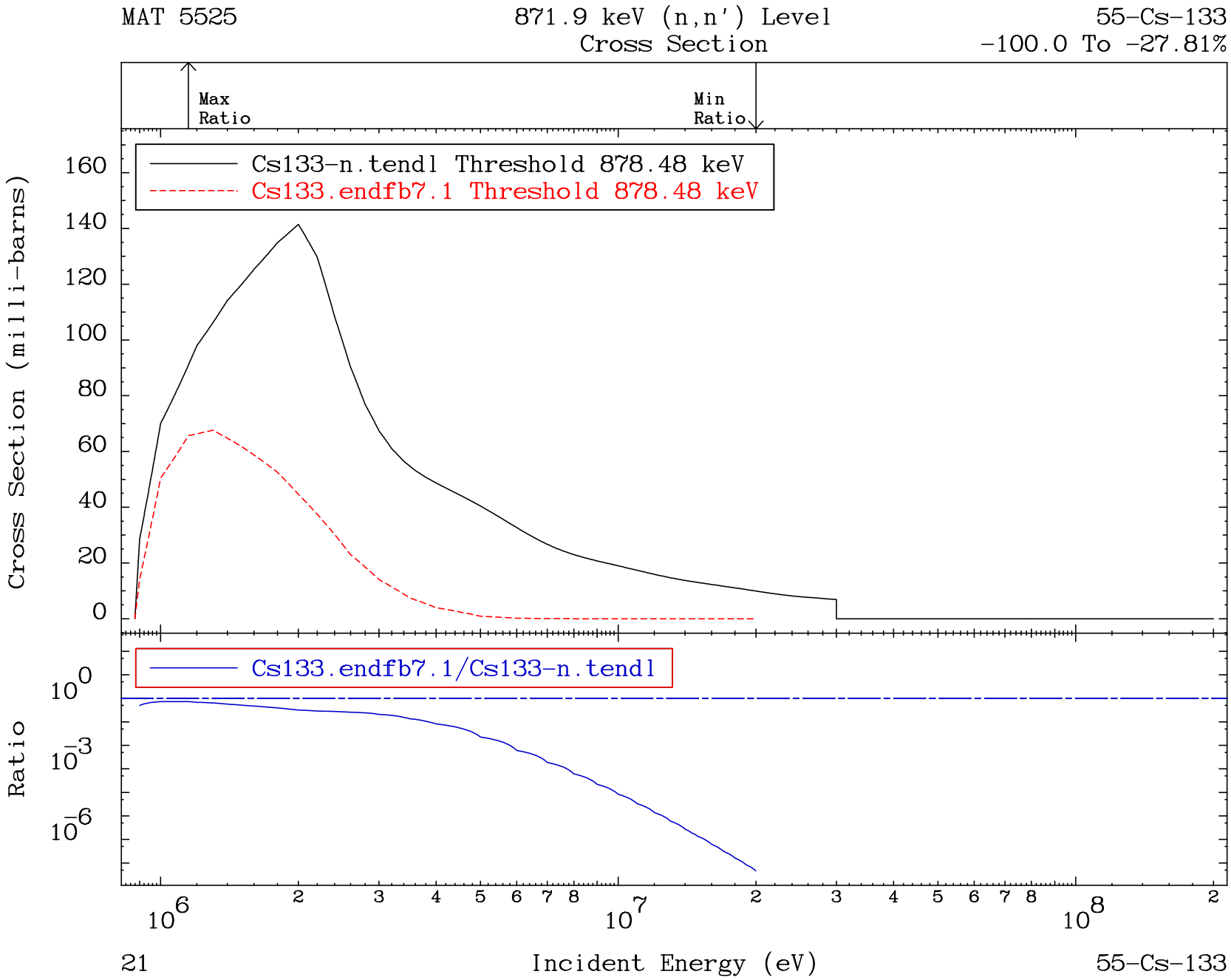

MAT 5525
705.6 keV (n,n') Level
Cross Section
55-Cs-133
1.616 To 9999. %
Min Ratio
Max Ratio
Cs133-n.tendl Threshold 710.93 keV
Cs133.endfb7.1 Threshold 710.93 keV
Cross Section (milli-barns)
150
100
50
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^2
10^1
10^0
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
55-Cs-133

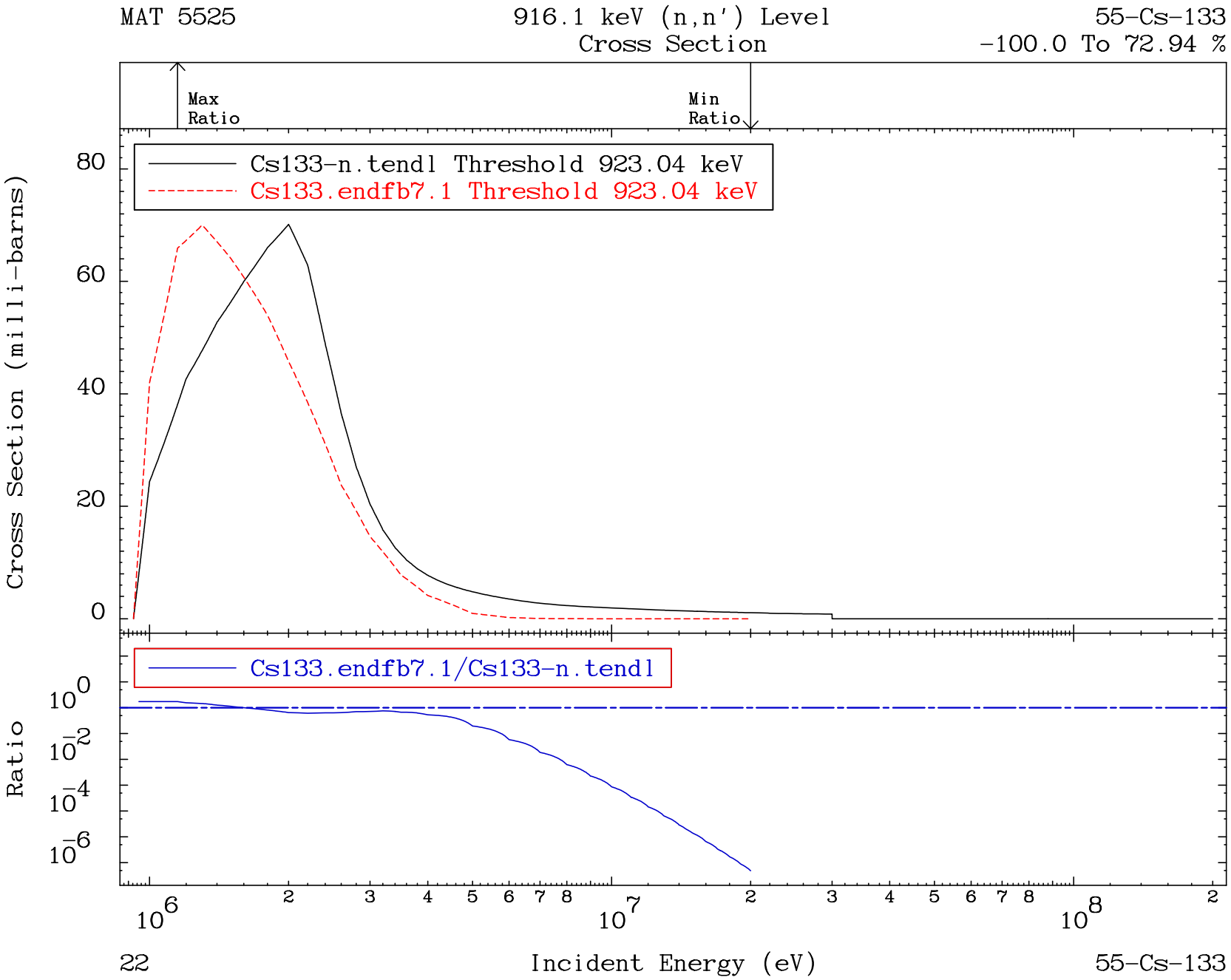

MAT 5525
729.2 keV (n,n') Level
Cross Section
55-Cs-133
-100.0 To 181.6 %
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 734.69 keV
Cs133.endfb7.1 Threshold 733.83 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-3
10^-6
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
55-Cs-133

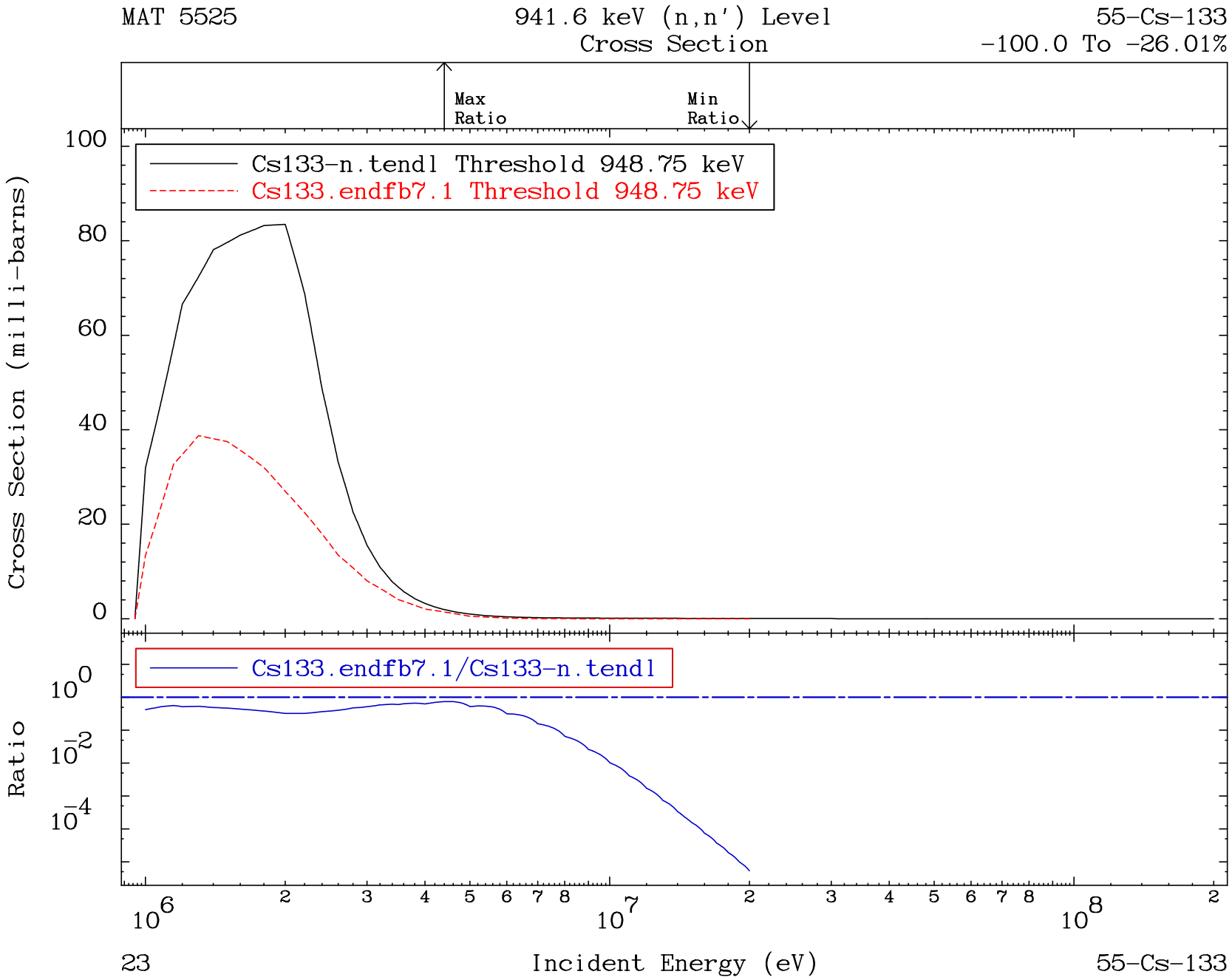

MAT 5525
767.7 keV (n,n') Level
Cross Section
55-Cs-133
-100.0 To -23.31%
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 773.51 keV
Cs133.endfb7.1 Threshold 773.51 keV
Cross Section (milli-barns)
200
150
100
50
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-3
10^-6
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
55-Cs-133

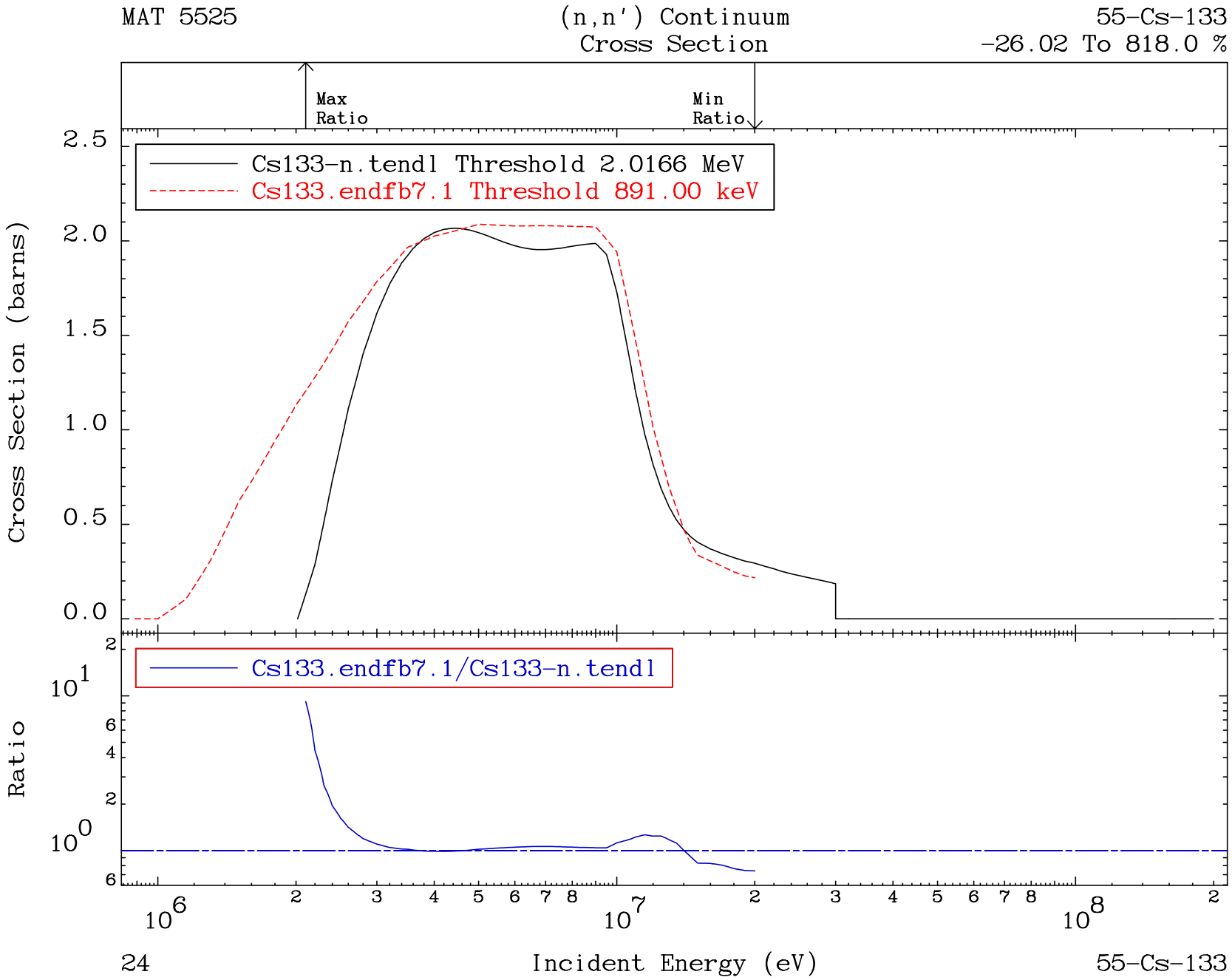

MAT 5525
788.6 keV (n,n') Level
Cross Section
55-Cs-133
-100.0 To 297.0 %
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 794.59 keV
Cs133.endfb7.1 Threshold 794.77 keV
Cross Section (milli-barns)
80
60
40
20
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-3
10^-6
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
55-Cs-133

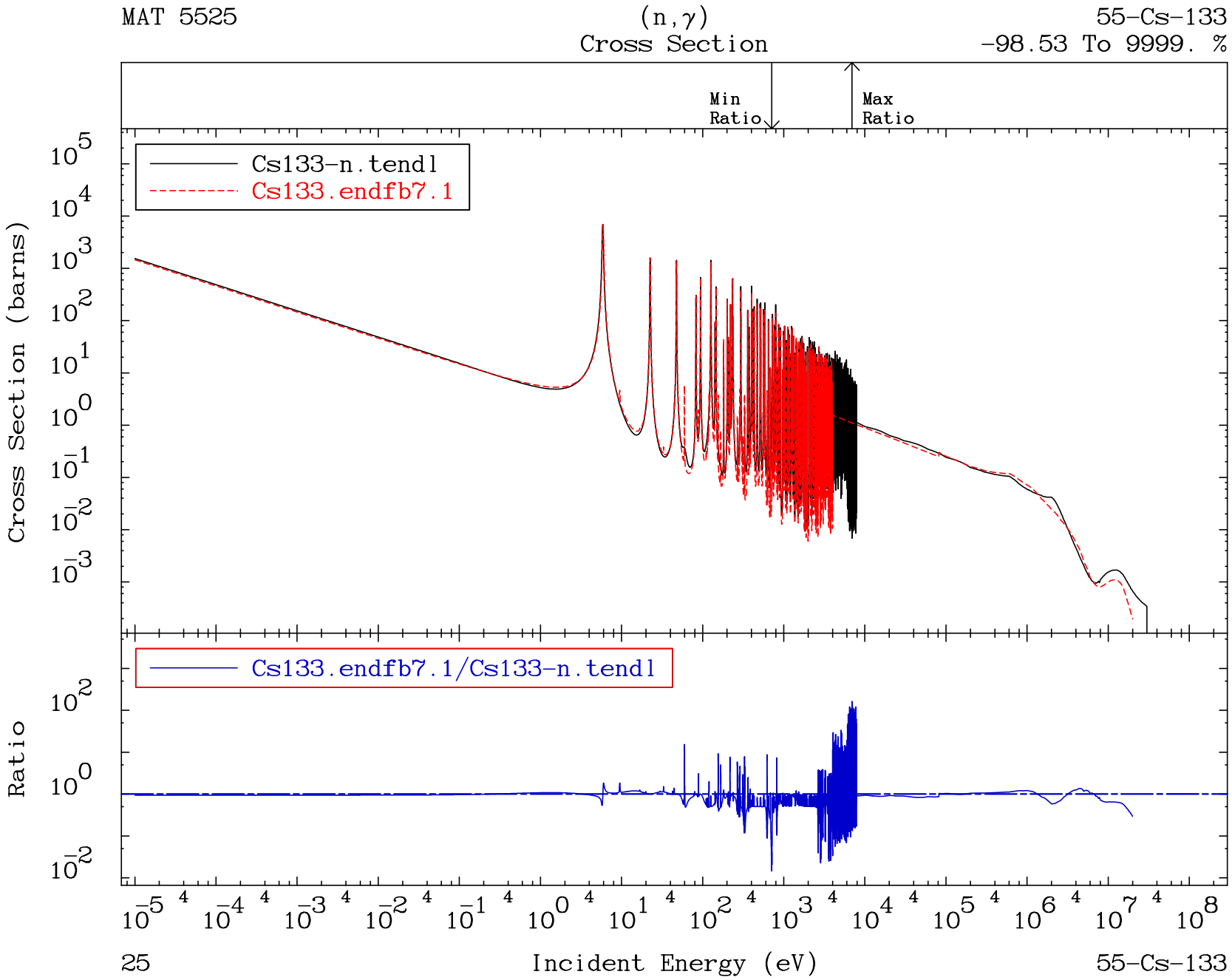

MAT 5525
819.1 keV (n,n') Level
Cross Section
55-Cs-133
-100.0 To 51.79 %
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 825.28 keV
Cs133.endfb7.1 Threshold 825.28 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-3
10^-6
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
55-Cs-133

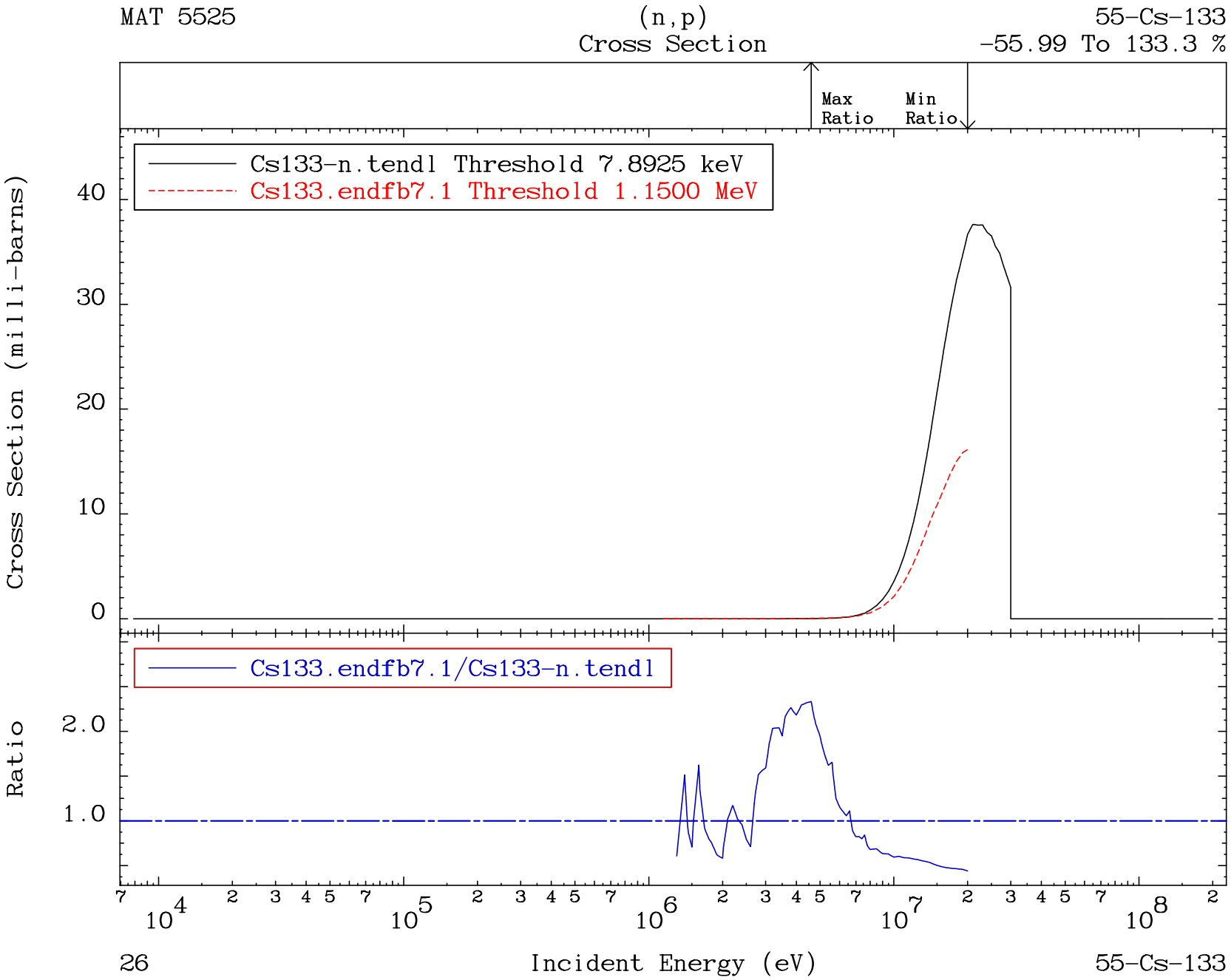

MAT 5525
871.9 keV (n,n') Level
Cross Section
55-Cs-133
-100.0 To -27.81%
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 878.48 keV
Cs133.endfb7.1 Threshold 878.48 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-3
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
55-Cs-133

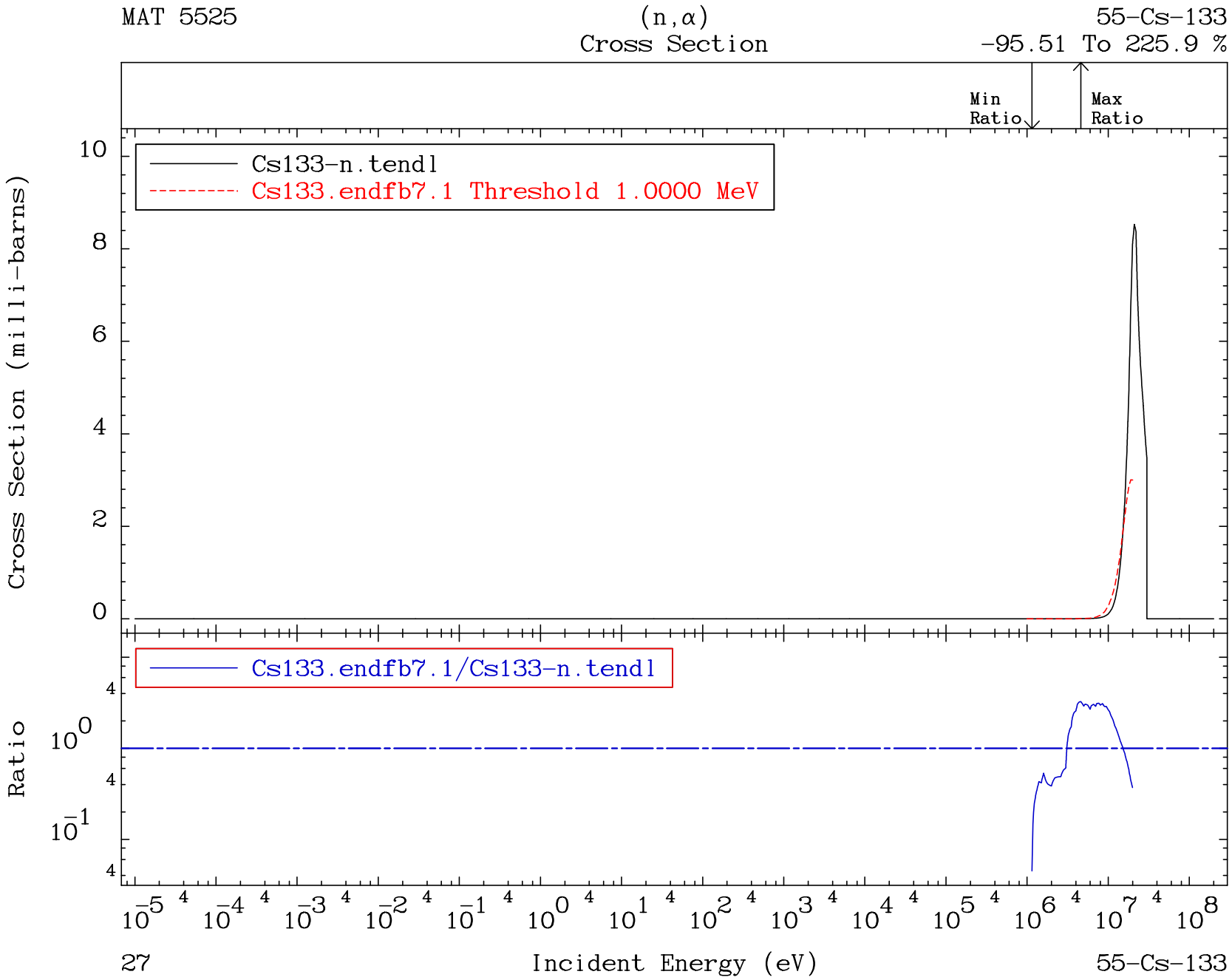

MAT 5525
916.1 keV (n,n') Level
Cross Section
55-Cs-133
-100.0 To 72.94 %
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 923.04 keV
Cs133.endfb7.1 Threshold 923.04 keV
Cross Section (milli-barns)
80
60
40
20
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-2
10^-4
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
55-Cs-133

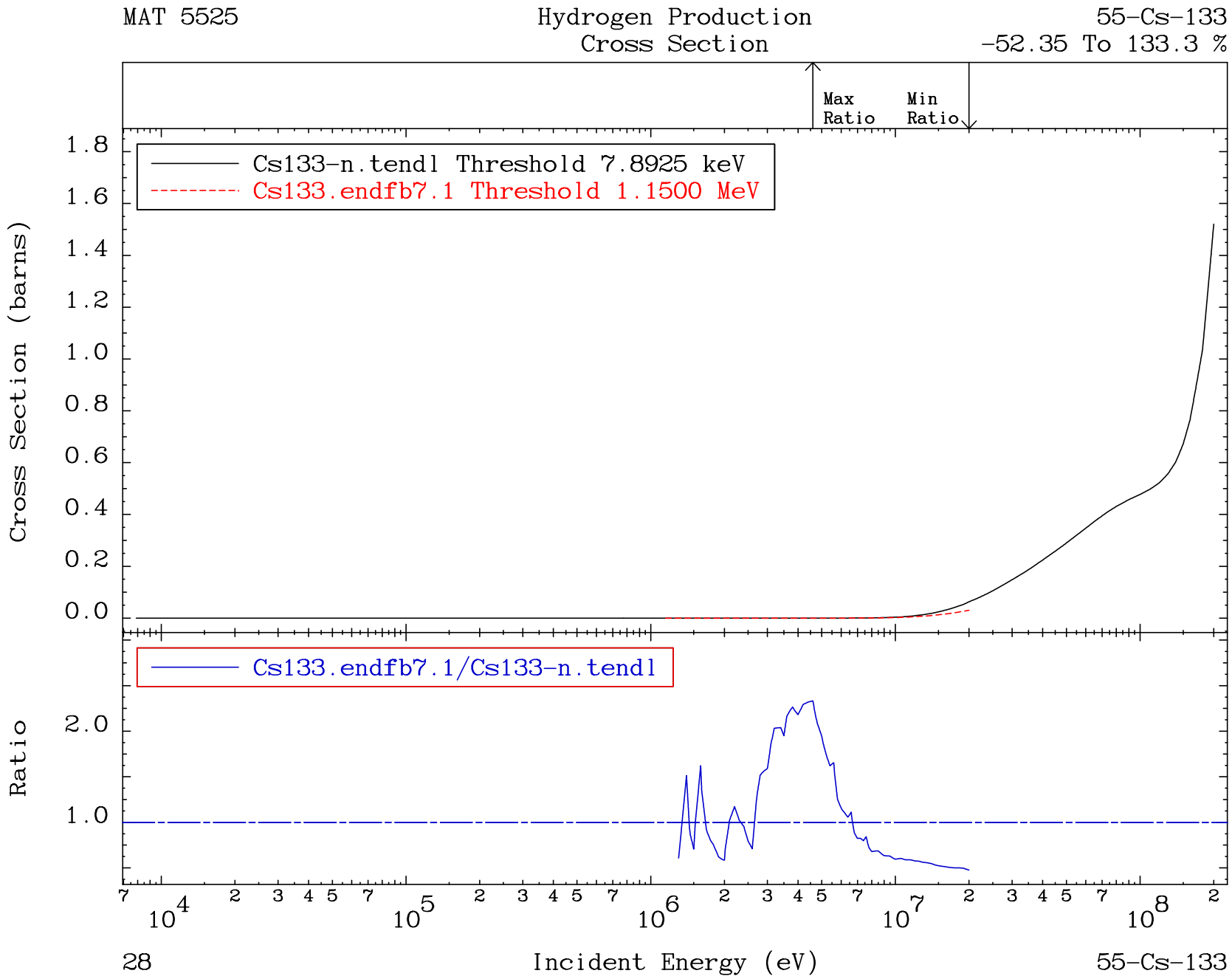

MAT 5525
941.6 keV (n,n') Level
Cross Section
55-Cs-133
-100.0 To -26.01%
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 948.75 keV
Cs133.endfb7.1 Threshold 948.75 keV
Cross Section (milli-barns)
100
80
60
40
20
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-2
10^-4
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
23
Incident Energy (eV)
55-Cs-133

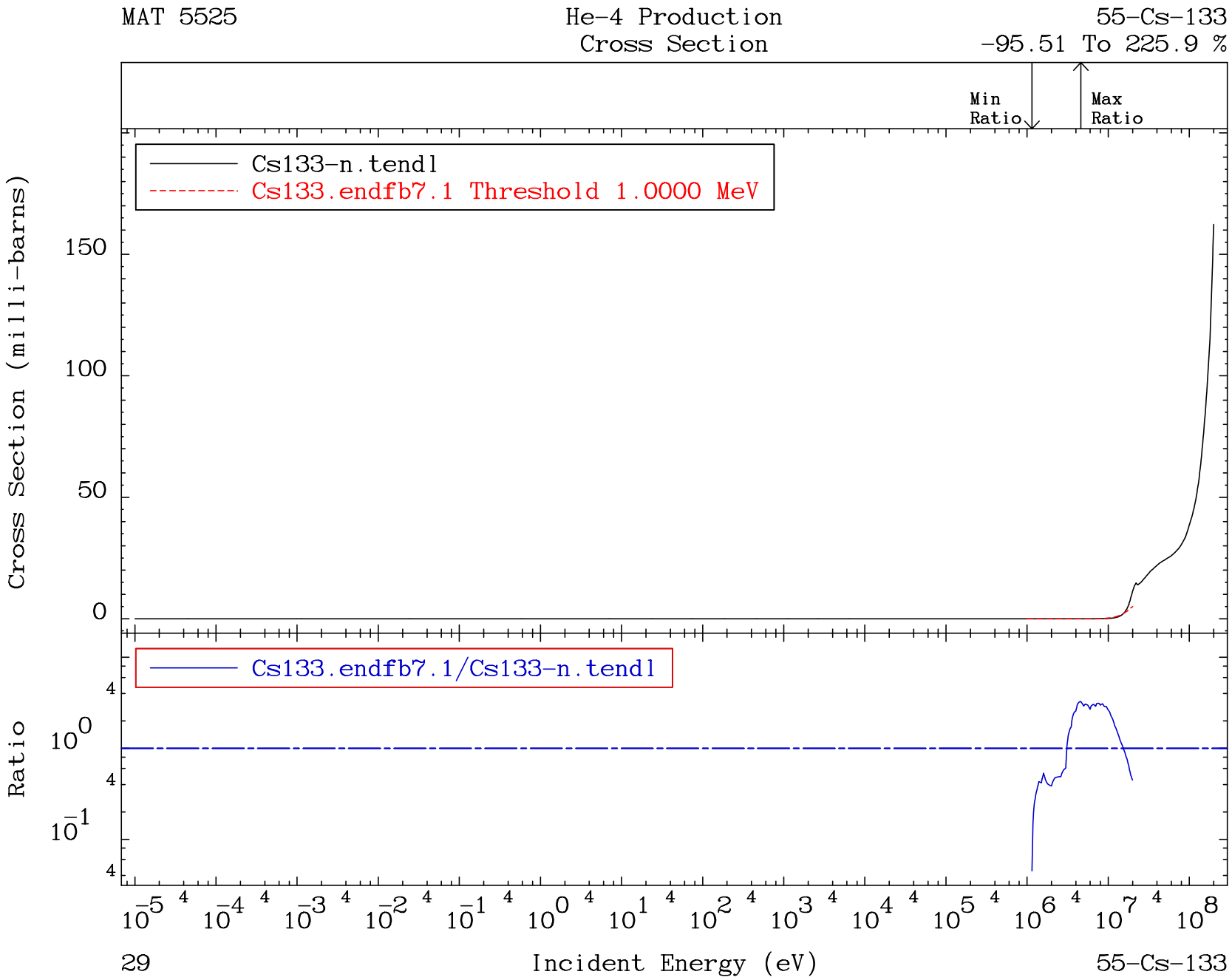

MAT 5525
(n,n') Continuum
Cross Section
55-Cs-133
-26.02 To 818.0 %
Max
Ratio
Min
Ratio
Cs133-n.tendl Threshold 2.0166 MeV
Cs133.endfb7.1 Threshold 891.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
2
10^1
6
4
2
10^0
6
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
55-Cs-133

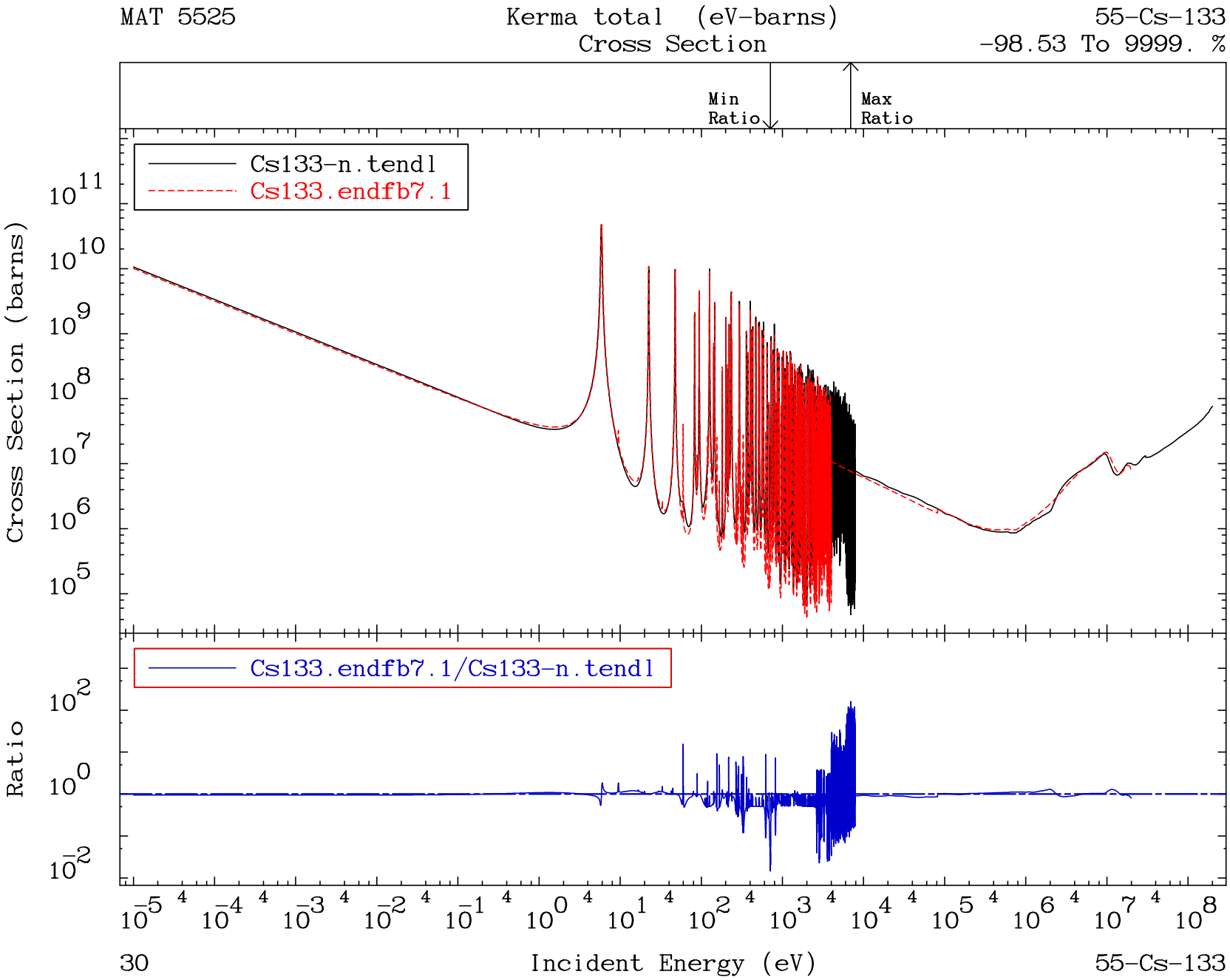

MAT 5525
(n,γ)
Cross Section
55-Cs-133
-98.53 To 9999. %
Min Ratio
Max Ratio
Cs133-n.tendl
Cs133.endfb7.1
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
25
55-Cs-133

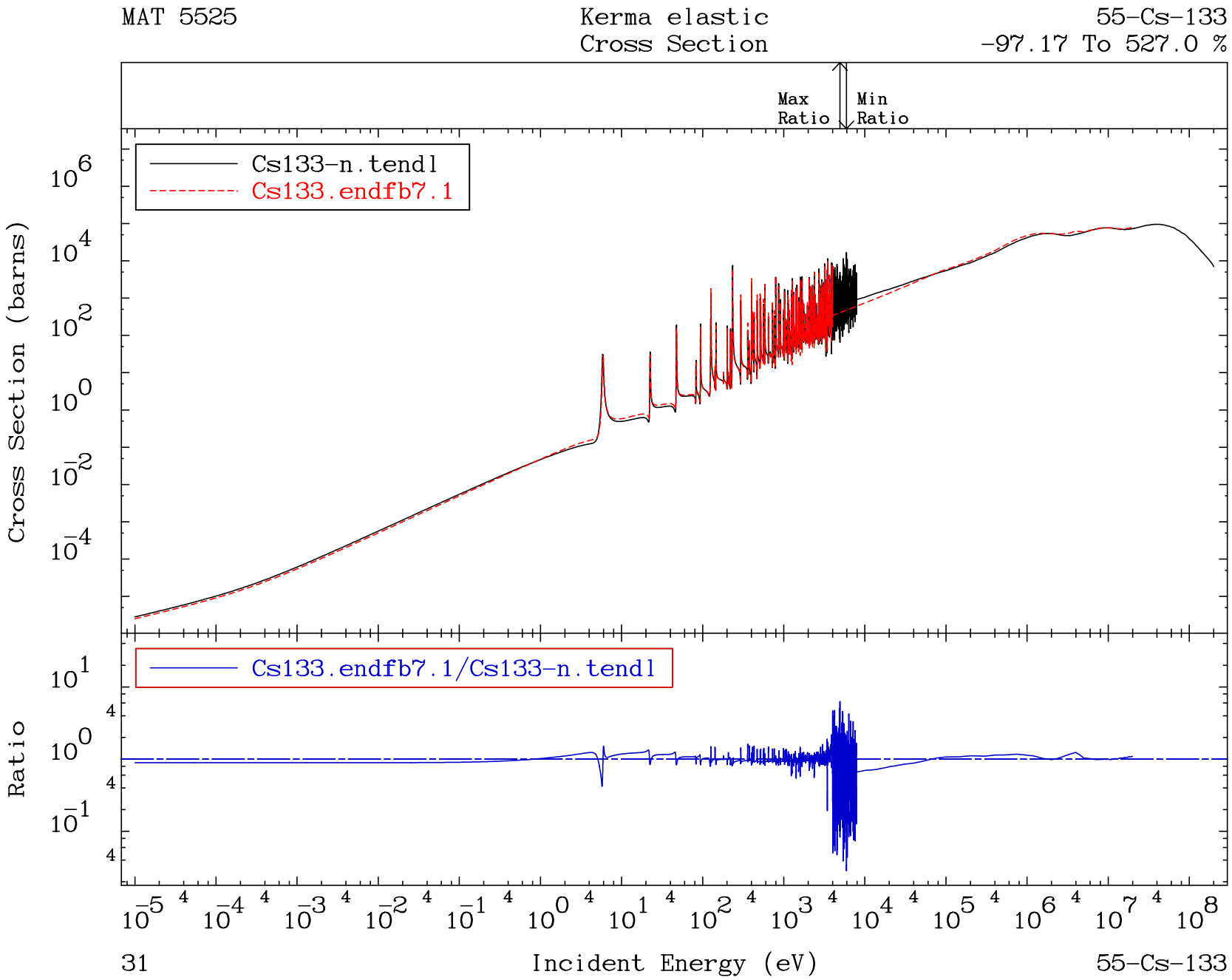

MAT 5525
(n,p)
Cross Section
55-Cs-133
-55.99 To 133.3 %
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 7.8925 keV
Cs133.endfb7.1 Threshold 1.1500 MeV
Cross Section (milli-barns)
40
30
20
10
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
2.0
1.0
7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
26
Incident Energy (eV)
55-Cs-133

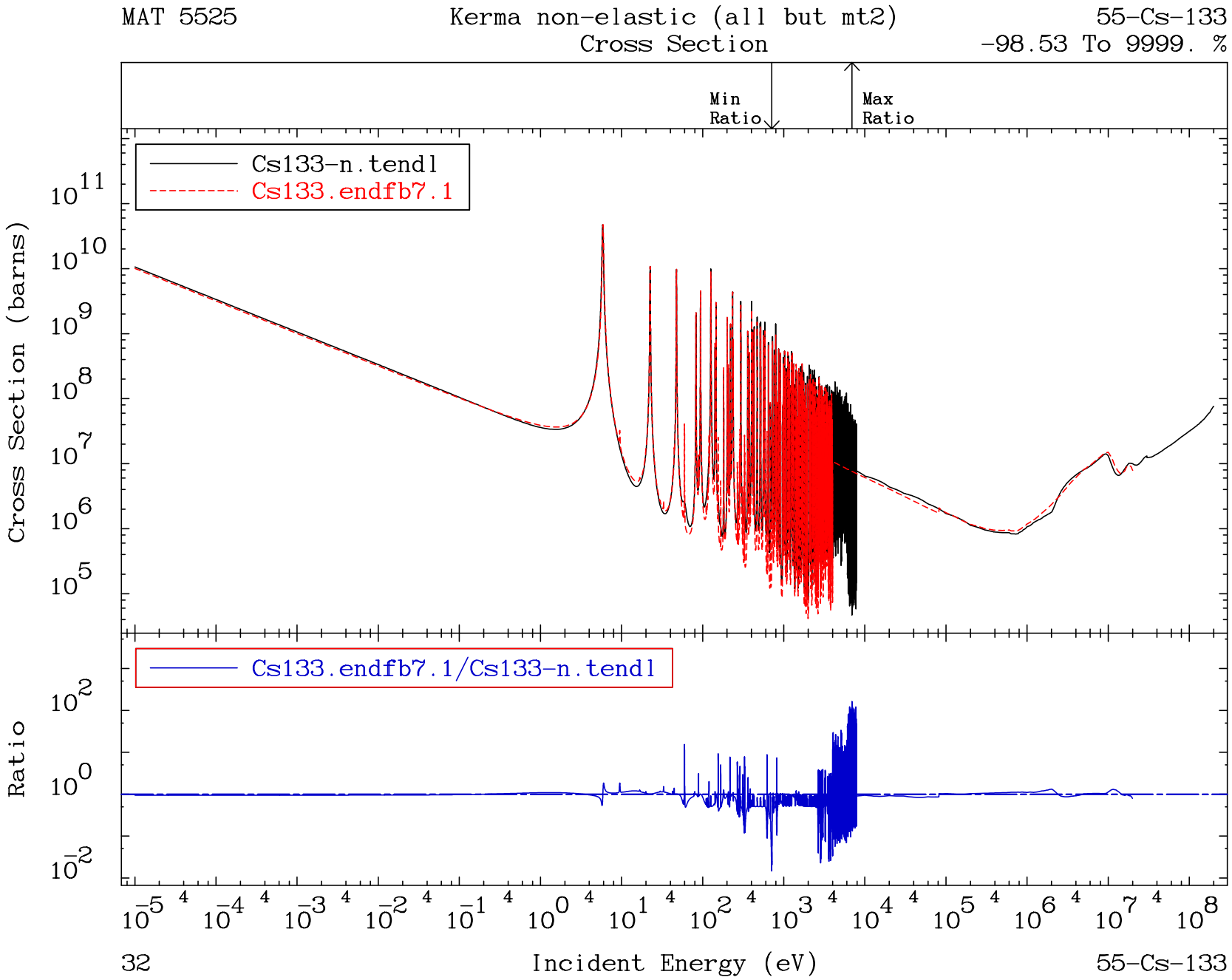

MAT 5525
(n,α)
Cross Section
55-Cs-133
-95.51 To 225.9 %
Min Ratio
Max Ratio
Cs133-n.tendl
Cs133.endfb7.1 Threshold 1.0000 MeV
Cross Section (milli-barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
27
55-Cs-133

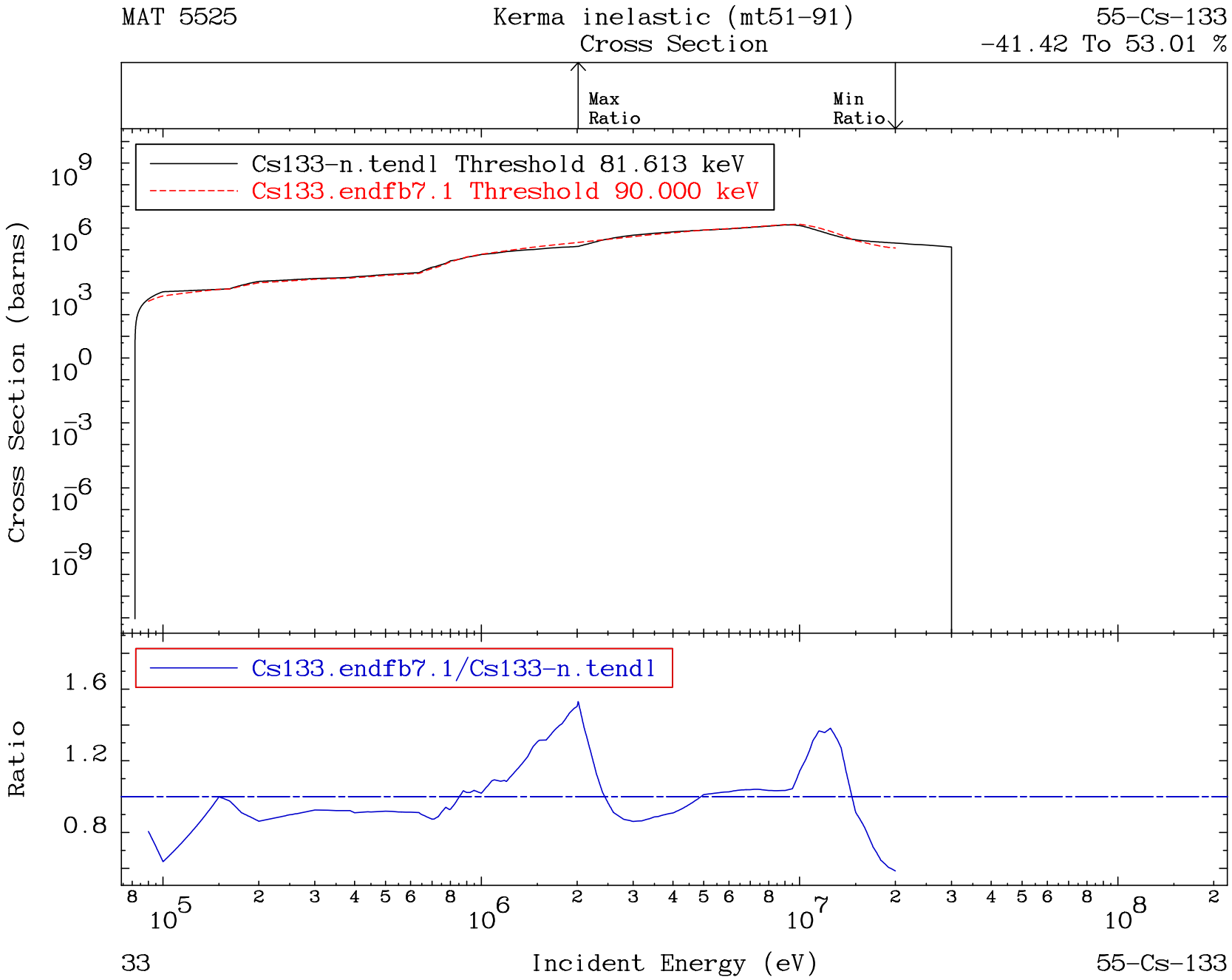

MAT 5525
Hydrogen Production
Cross Section
55-Cs-133
-52.35 To 133.3 %
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 7.8925 keV
Cs133.endfb7.1 Threshold 1.1500 MeV
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
28
55-Cs-133

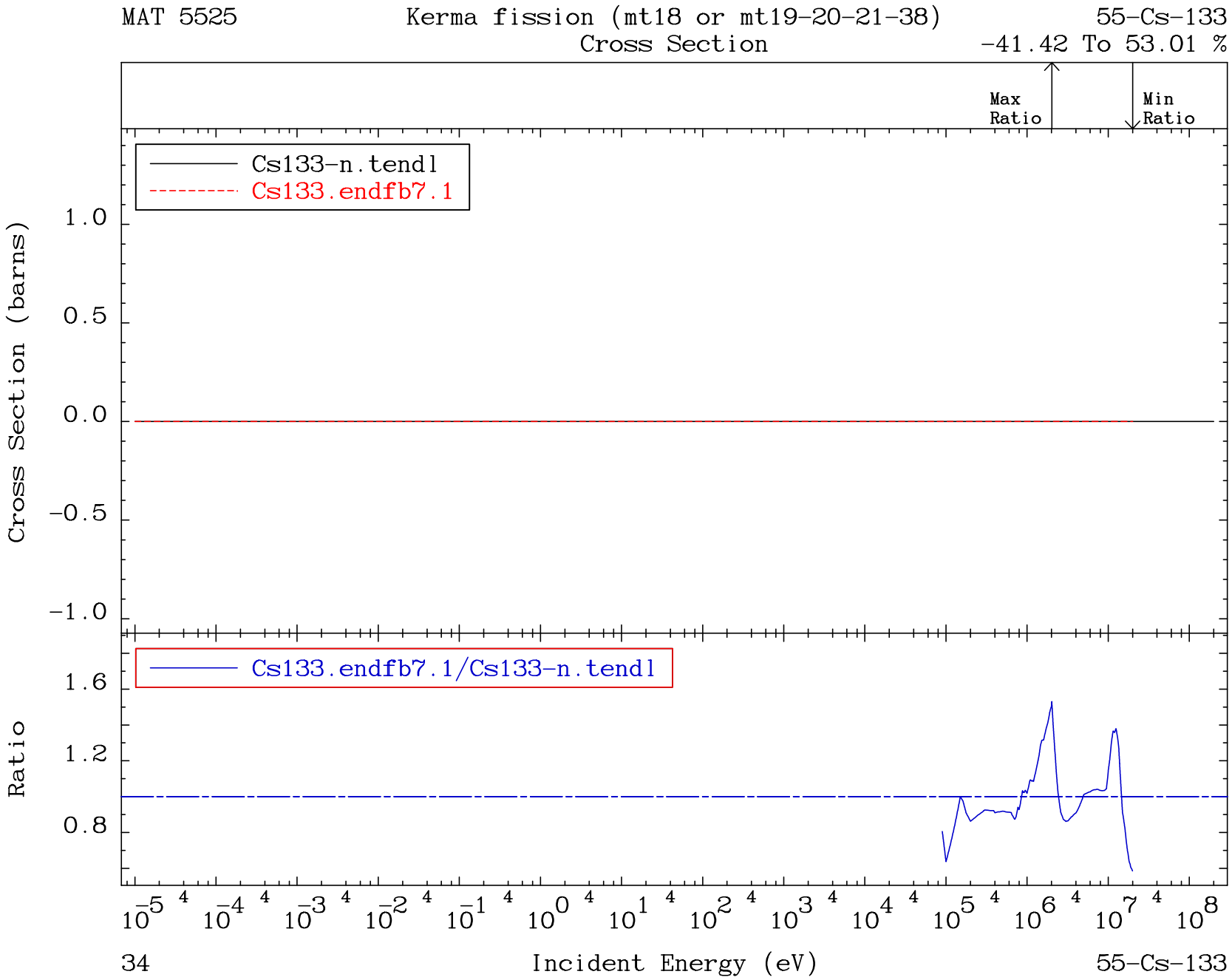

MAT 5525
He-4 Production
Cross Section
55-Cs-133
-95.51 To 225.9 %
Min Ratio
Max Ratio
Cs133-n.tendl
Cs133.endfb7.1 Threshold 1.0000 MeV
Cross Section (milli-barns)
150
100
50
0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
10^0
10^-1
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
29
Incident Energy (eV)
55-Cs-133

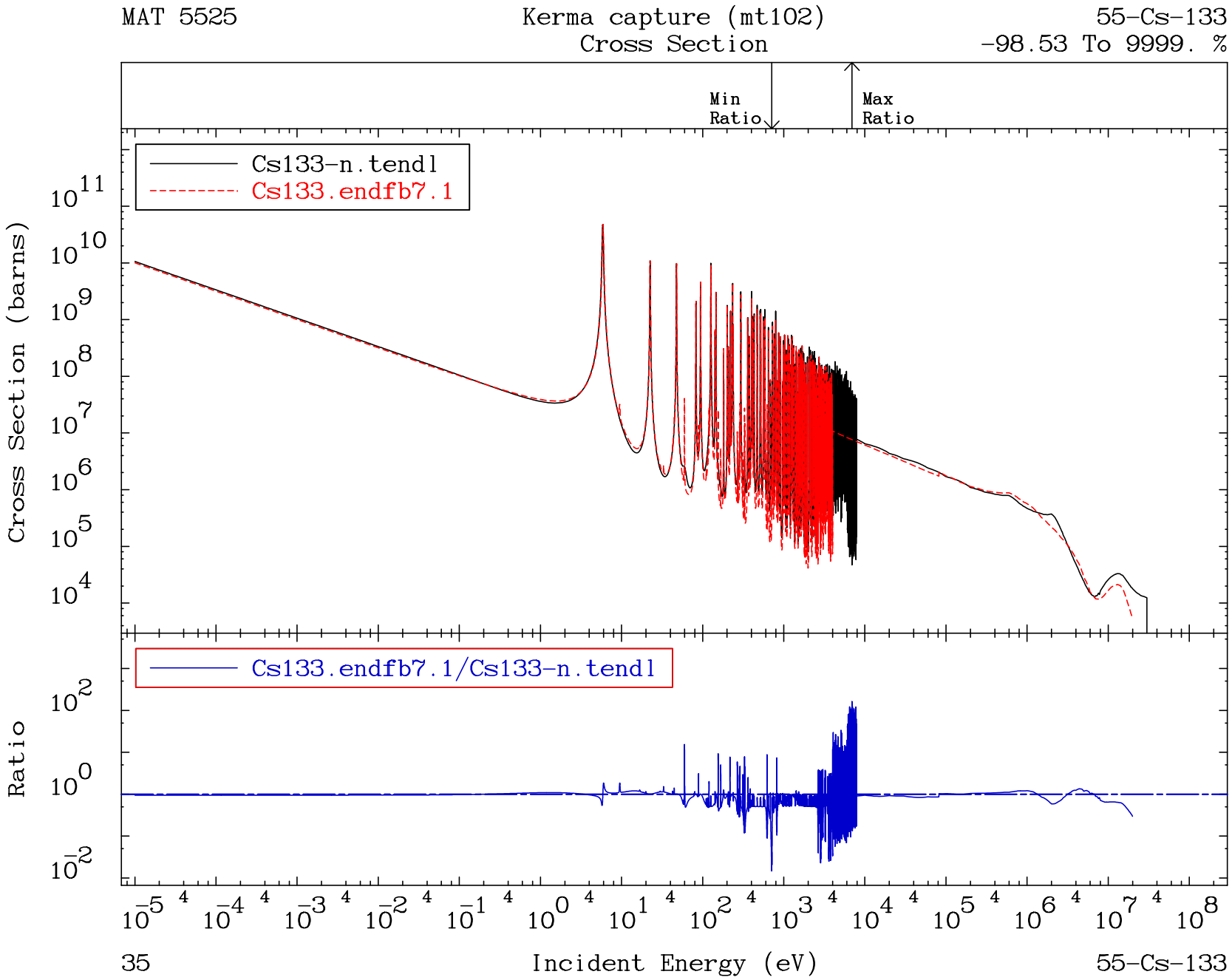

MAT 5525
Kerma total (eV-barns)
Cross Section
55-Cs-133
-98.53 To 9999. %
Min Ratio
Max Ratio
Cs133-n.tendl
Cs133.endfb7.1
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
30
55-Cs-133

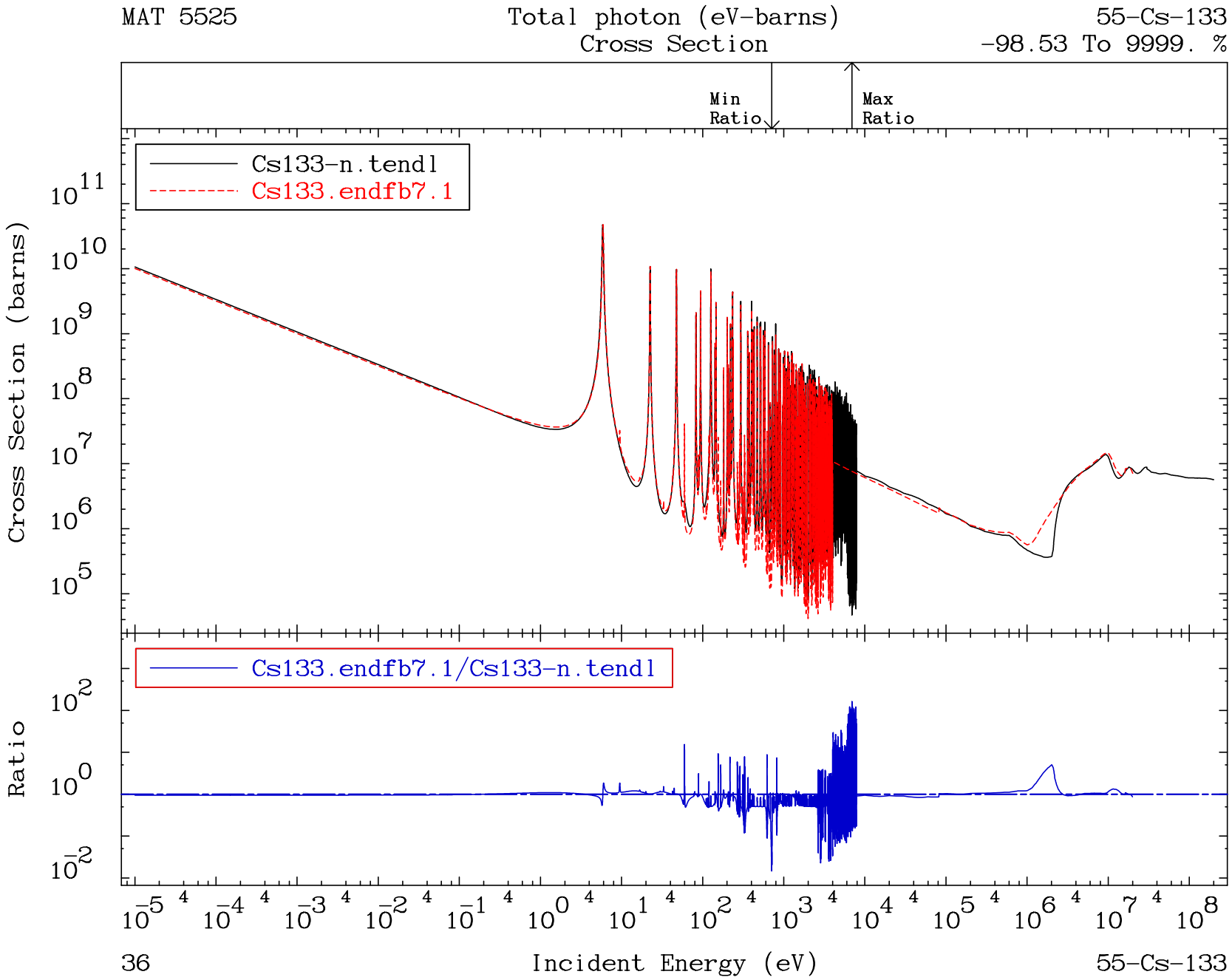

MAT 5525
Kerma elastic
Cross Section
55-Cs-133
-97.17 To 527.0 %
Max Ratio
Min Ratio
Cs133-n.tendl
Cs133.endfb7.1
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
31
55-Cs-133

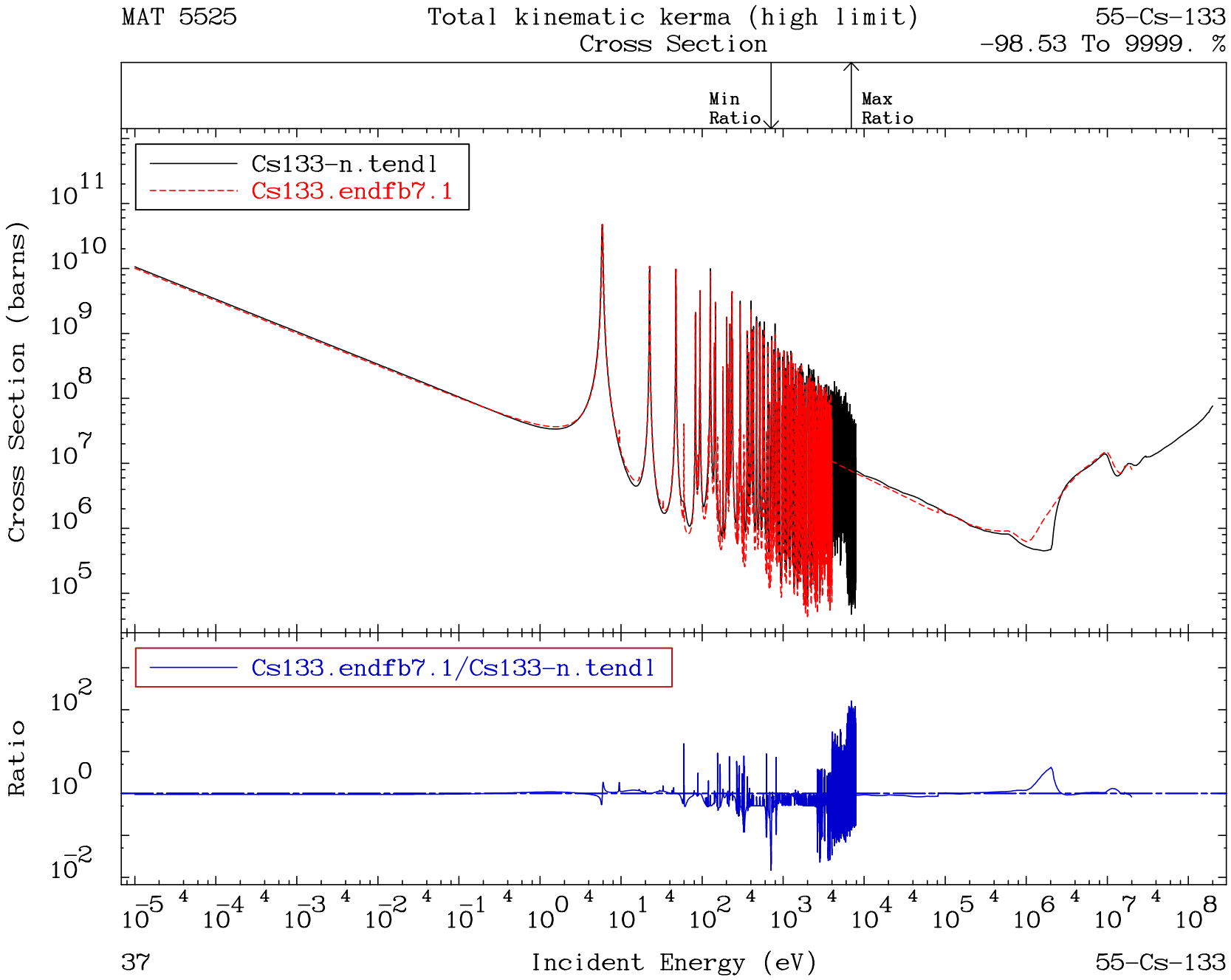

MAT 5525
Kerma non-elastic (all but mt2)
Cross Section
55-Cs-133
-98.53 To 9999. %
Min Ratio
Max Ratio
Cs133-n.tendl
Cs133.endfb7.1
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
32
55-Cs-133

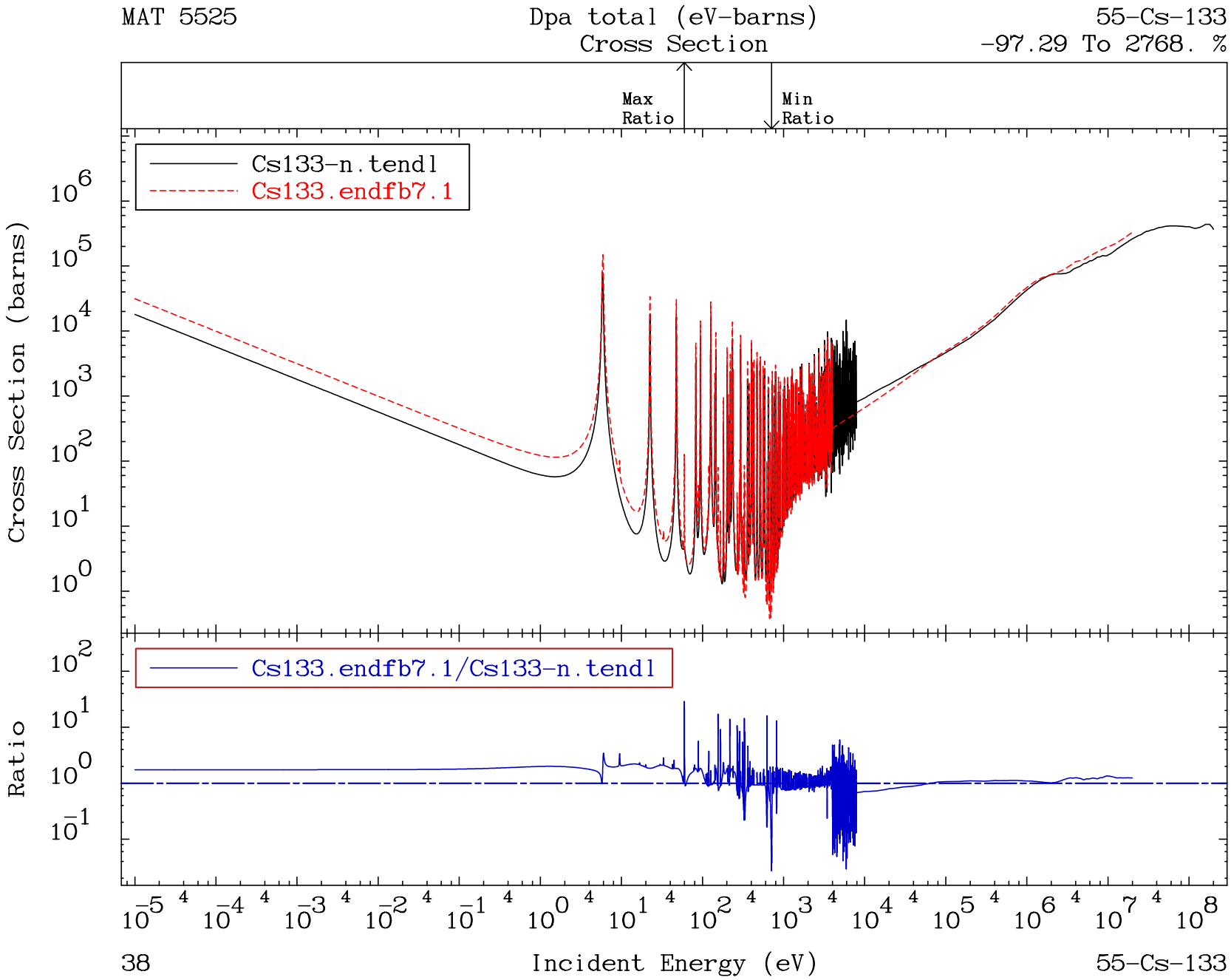

MAT 5525
Kerma inelastic (mt51-91)
Cross Section
55-Cs-133
-41.42 To 53.01 %
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 81.613 keV
Cs133.endfb7.1 Threshold 90.000 keV
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
33
55-Cs-133

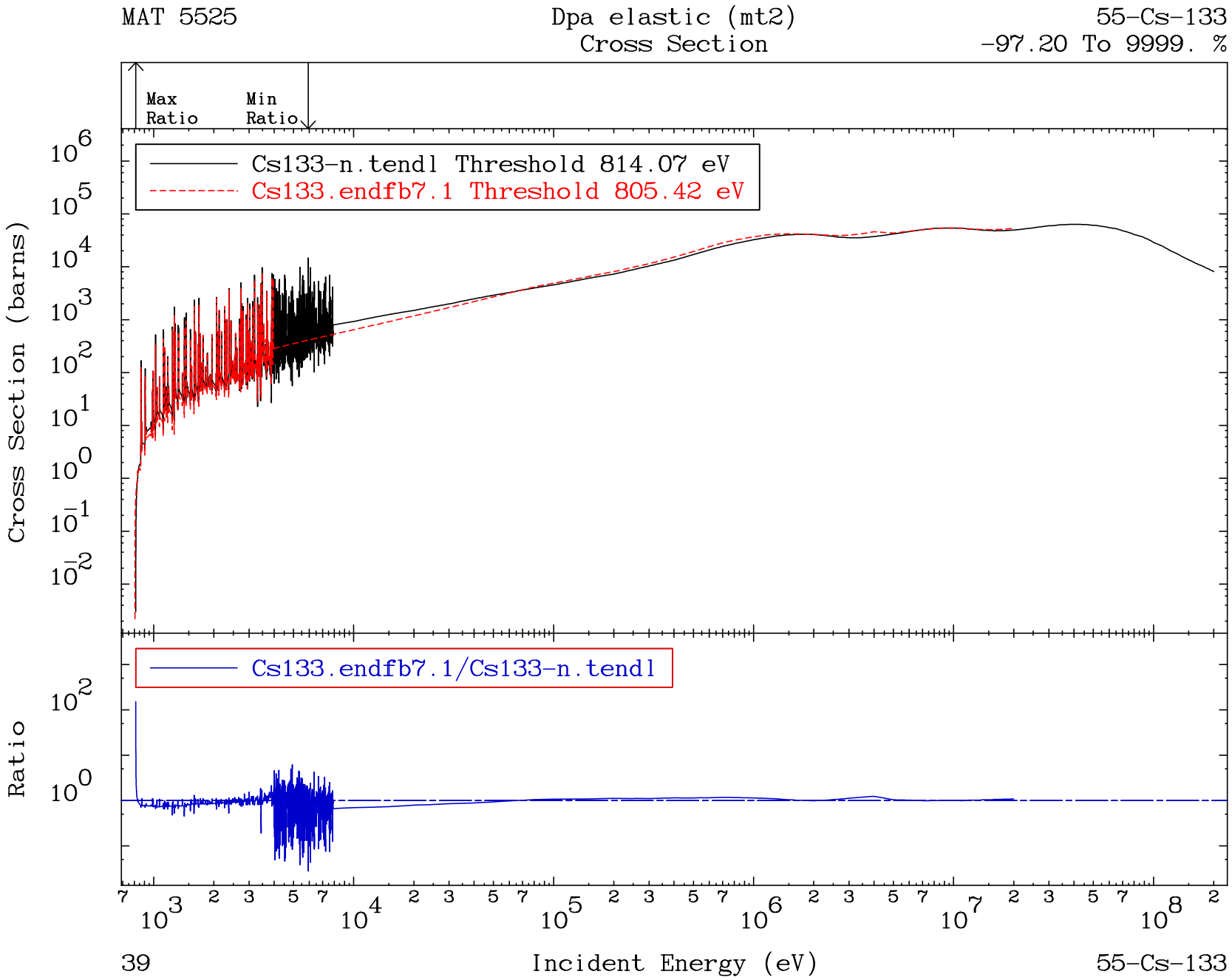

MAT 5525
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
55-Cs-133
-41.42 To 53.01 %
Max Ratio
Min Ratio
Cs133-n.tendl
Cs133.endfb7.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Cs133.endfb7.1/Cs133-n.tendl
Ratio
1.6
1.2
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
34
Incident Energy (eV)
55-Cs-133

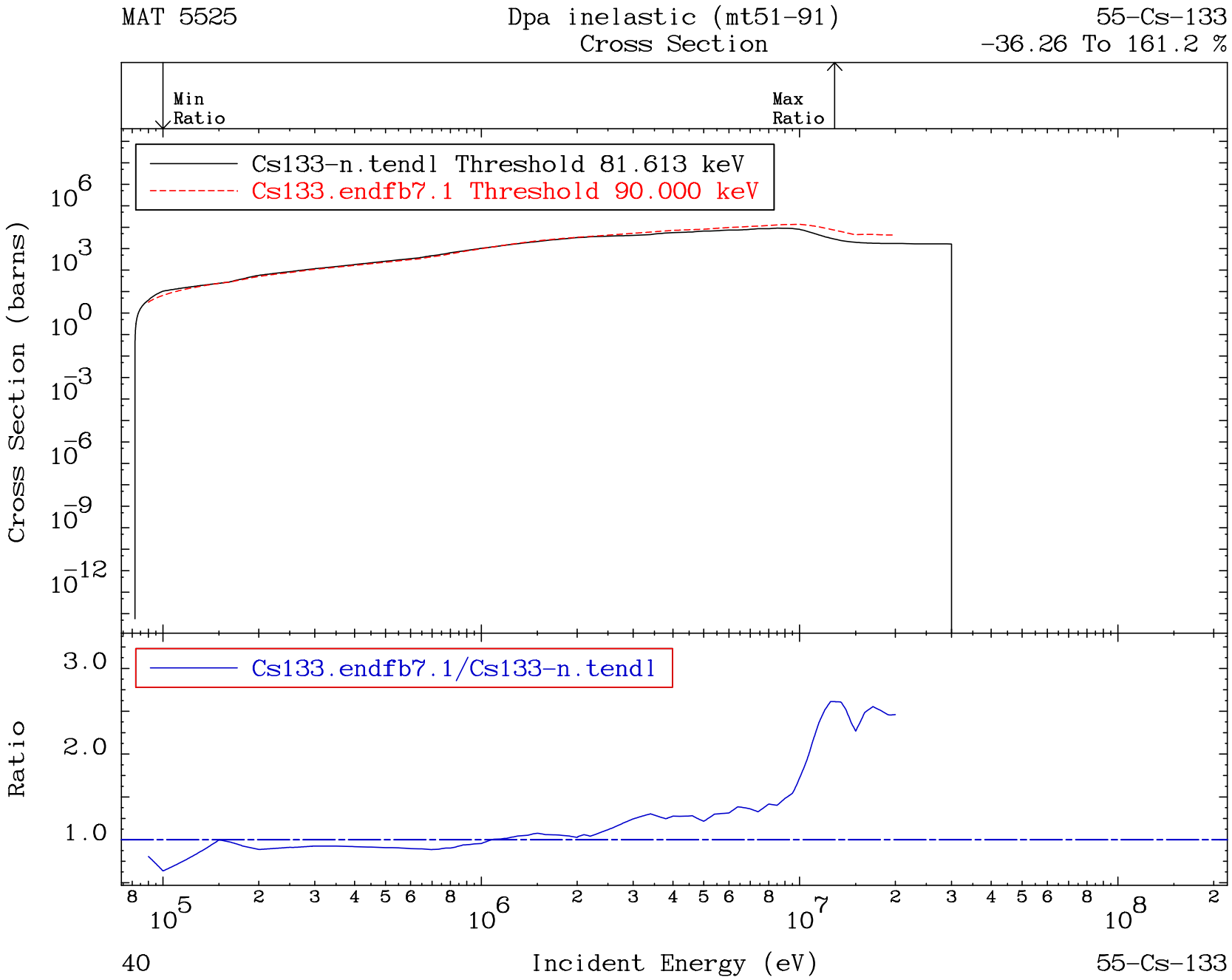

MAT 5525
Kerma capture (mt102)
Cross Section
55-Cs-133
-98.53 To 9999. %
Min Ratio
Max Ratio
Cs133-n.tendl
Cs133.endfb7.1
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
35
55-Cs-133

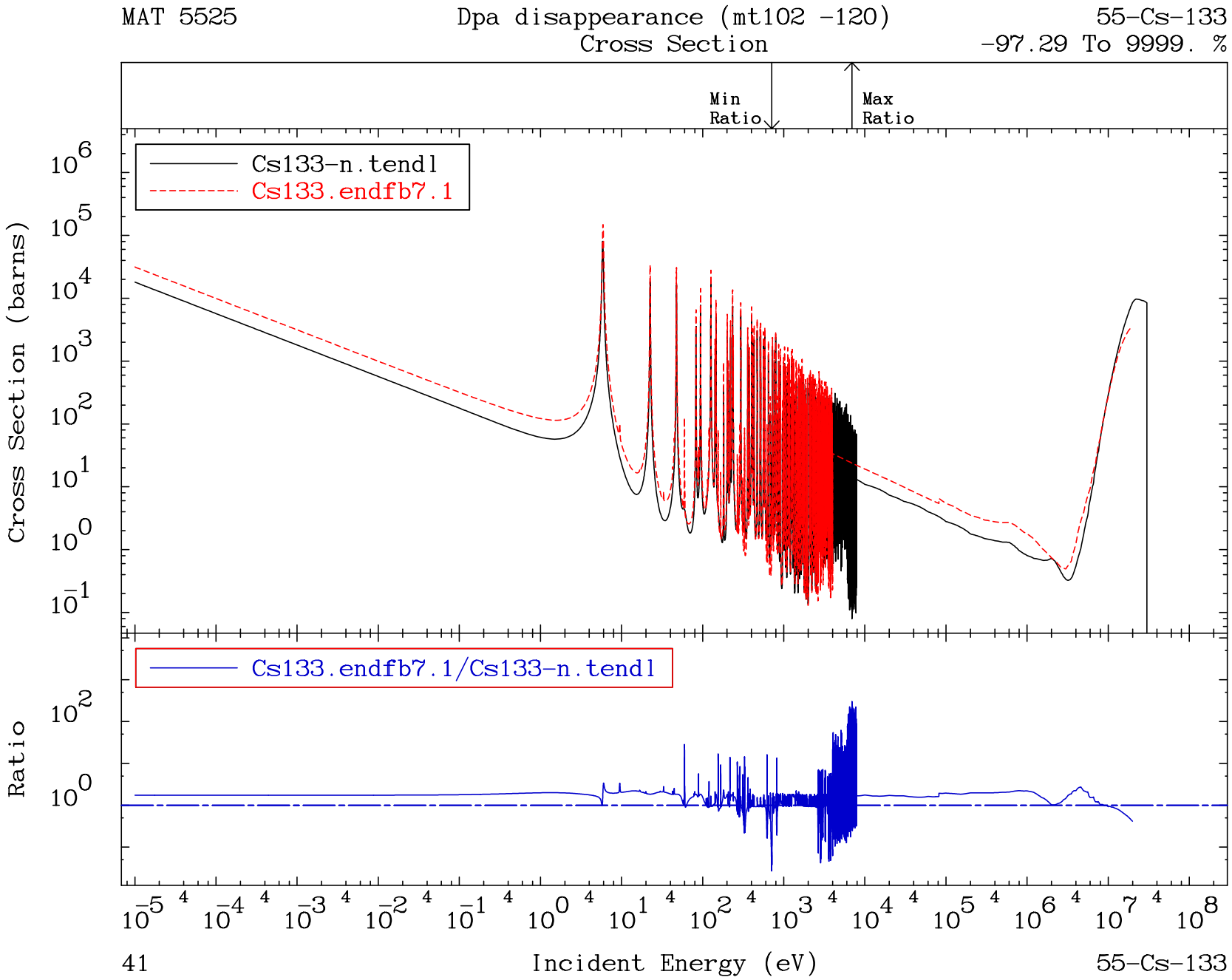

MAT 5525
Total photon (eV-barns)
Cross Section
55-Cs-133
-98.53 To 9999. %
Min Ratio
Max Ratio
Cs133-n.tendl
Cs133.endfb7.1
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
36
55-Cs-133


MAT 5525
Total kinematic kerma (high limit)
Cross Section
55-Cs-133
-98.53 To 9999. %
Min Ratio
Max Ratio
Cs133-n.tendl
Cs133.endfb7.1
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
37
55-Cs-133


MAT 5525
Dpa total (eV-barns)
Cross Section
55-Cs-133
-97.29 To 2768. %
Max Ratio
Min Ratio
Cs133-n.tendl
Cs133.endfb7.1
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
38
55-Cs-133


MAT 5525
Dpa elastic (mt2)
Cross Section
55-Cs-133
-97.20 To 9999. %
Max Ratio
Min Ratio
Cs133-n.tendl Threshold 814.07 eV
Cs133.endfb7.1 Threshold 805.42 eV
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
39
55-Cs-133


MAT 5525
Dpa inelastic (mt51-91)
Cross Section
55-Cs-133
-36.26 To 161.2 %
Min Ratio
Max Ratio
Cs133-n.tendl Threshold 81.613 keV
Cs133.endfb7.1 Threshold 90.000 keV
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
40
55-Cs-133


MAT 5525
Dpa disappearance (mt102 -120)
Cross Section
55-Cs-133
-97.29 To 9999. %
Min Ratio
Max Ratio
Cs133-n.tendl
Cs133.endfb7.1
Cross Section (barns)
Cs133.endfb7.1/Cs133-n.tendl
Ratio
Incident Energy (eV)
41
55-Cs-133