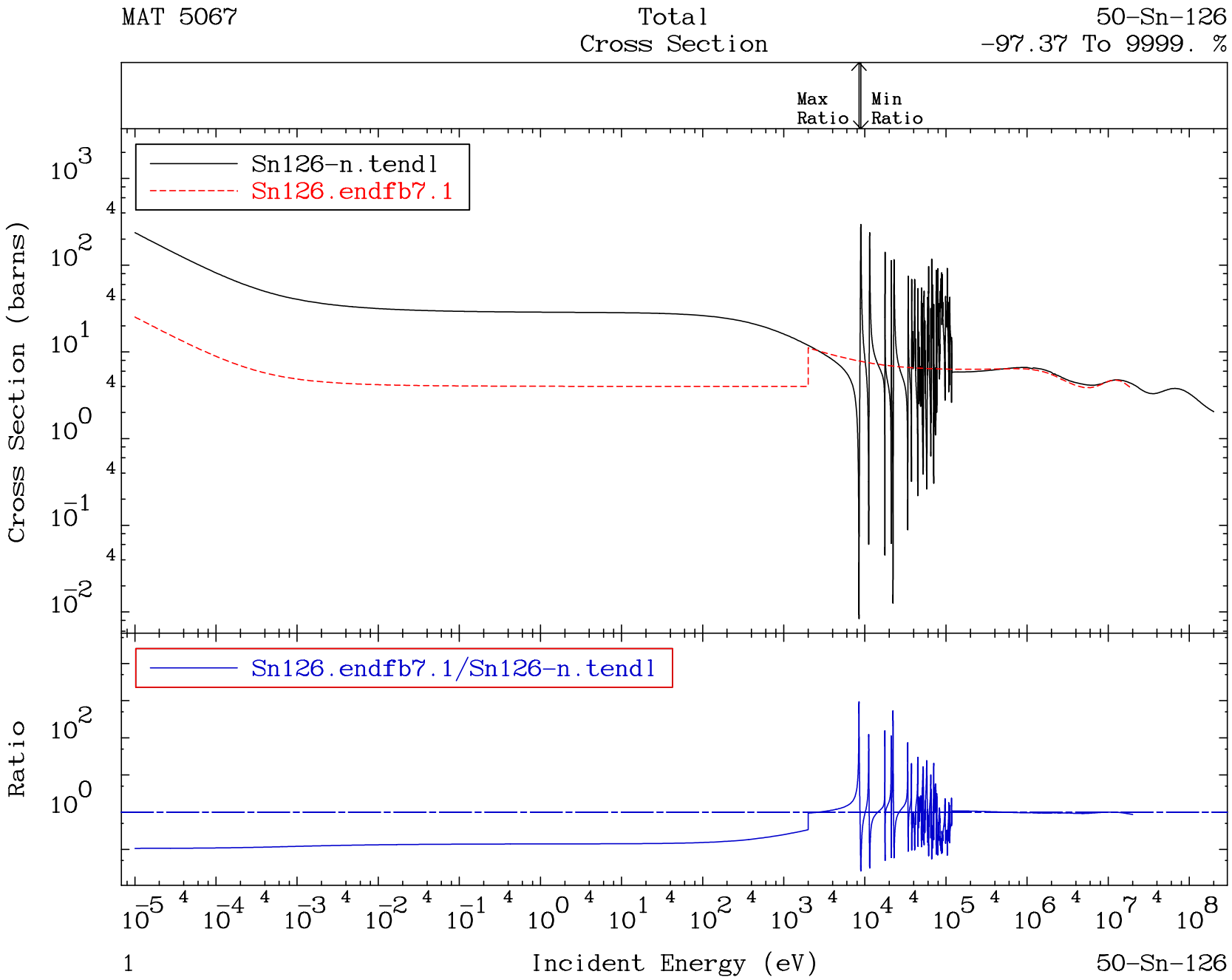
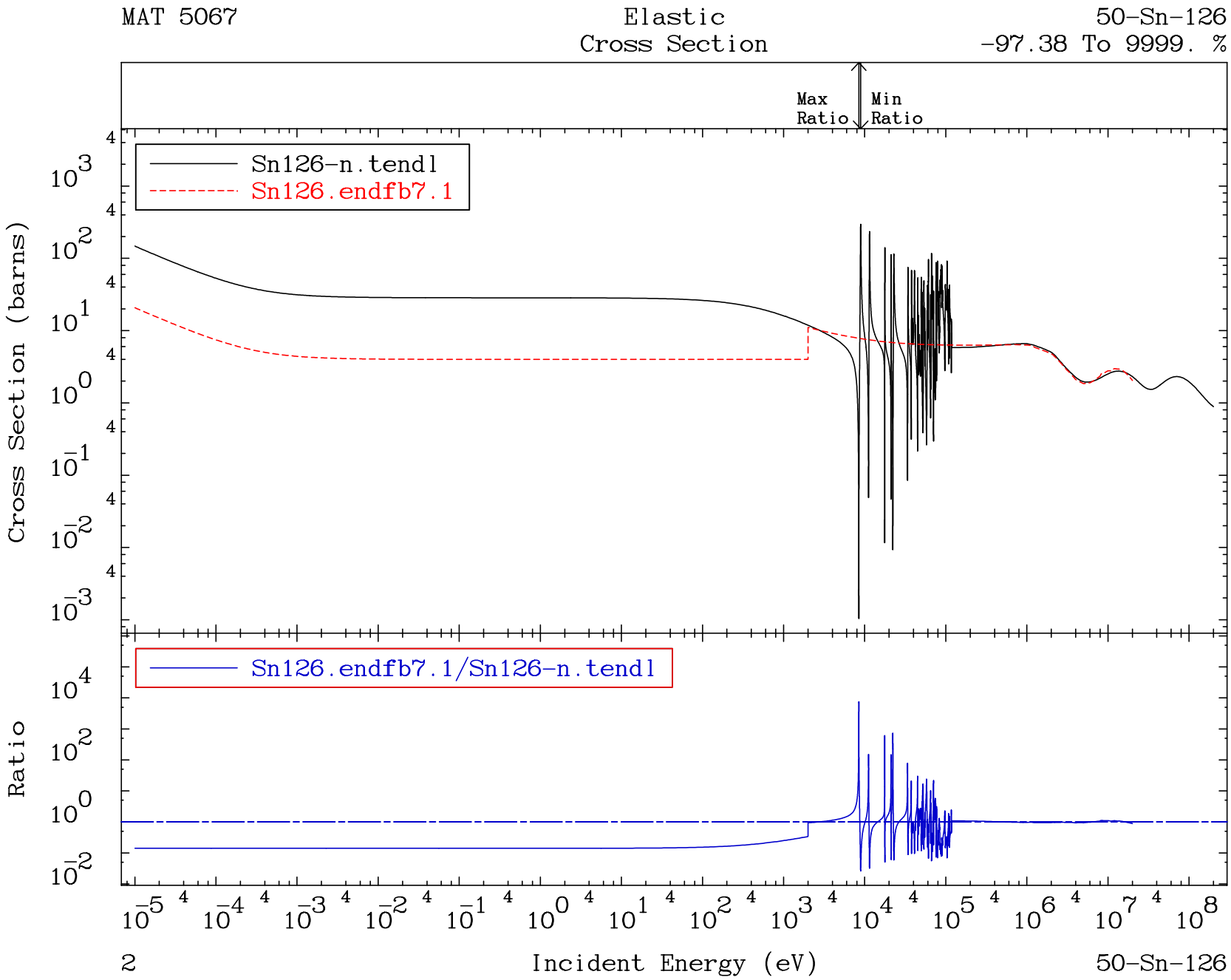
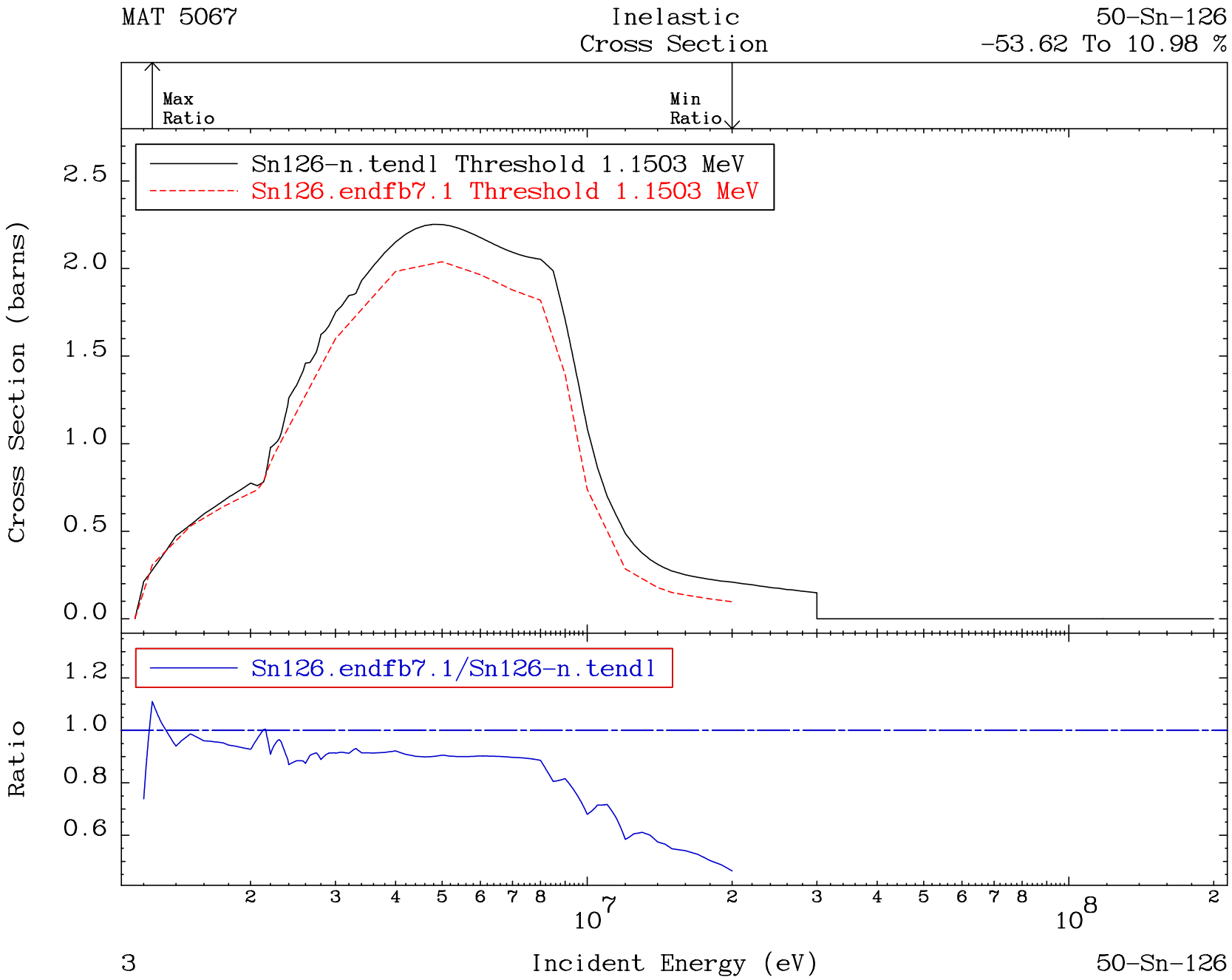
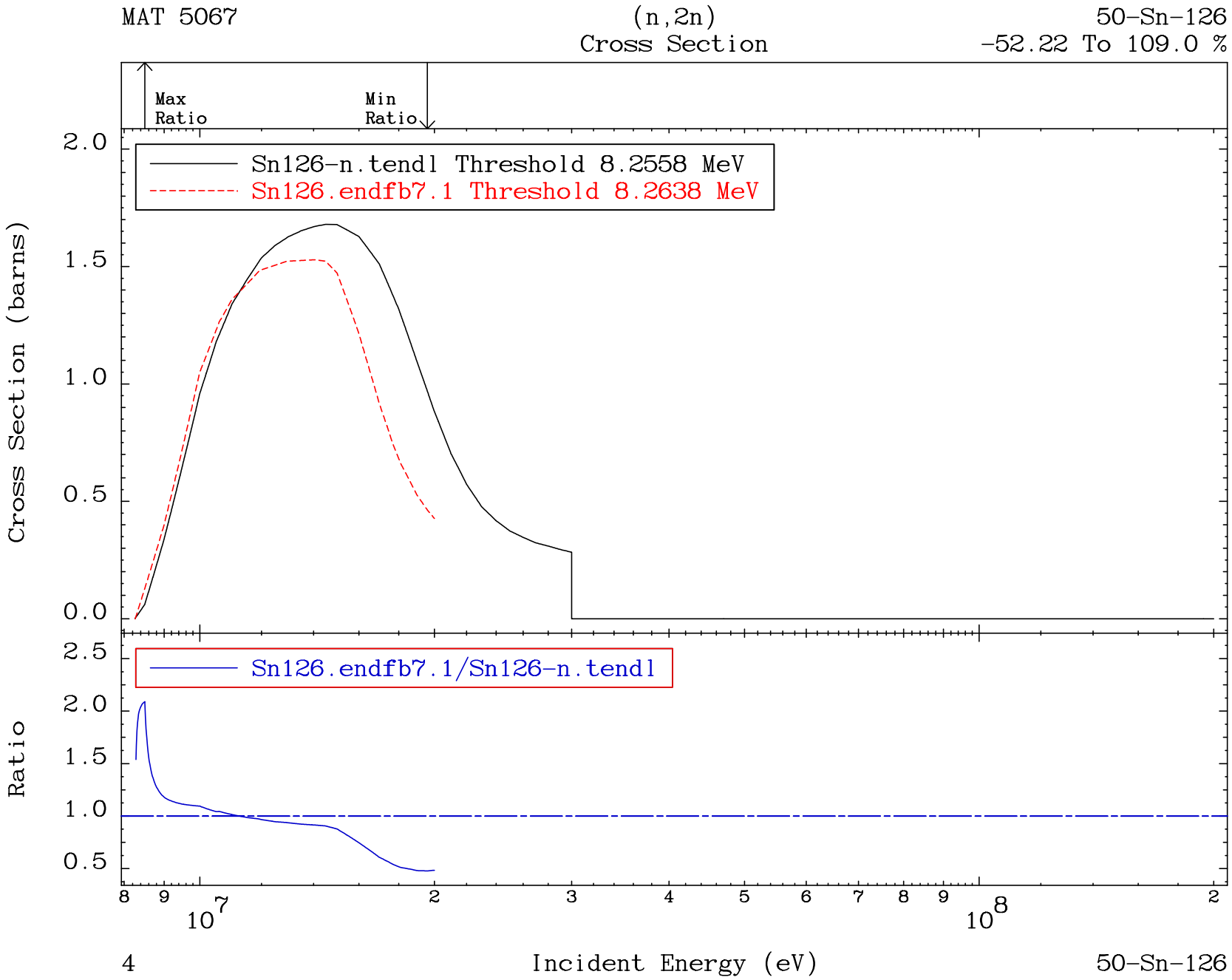
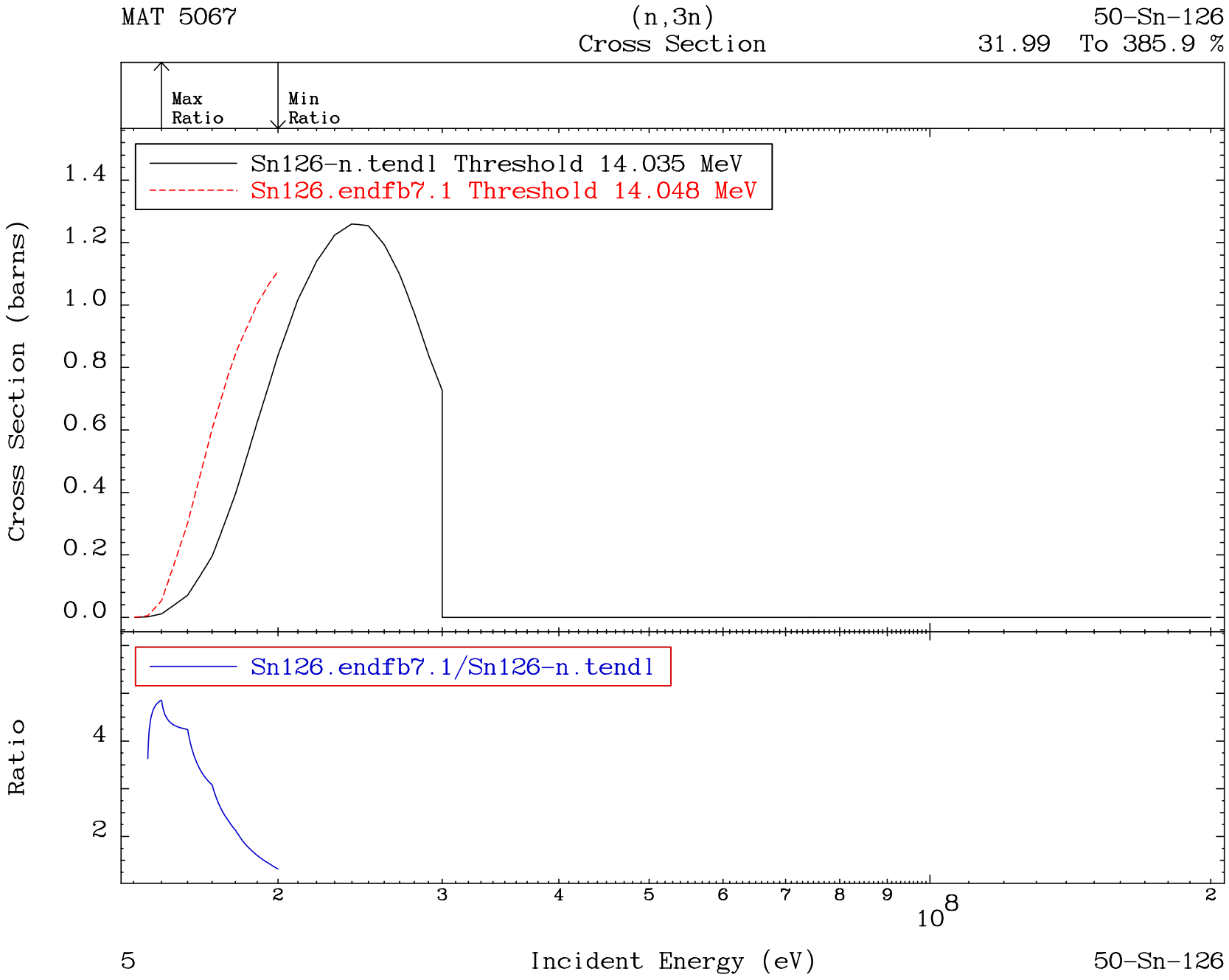
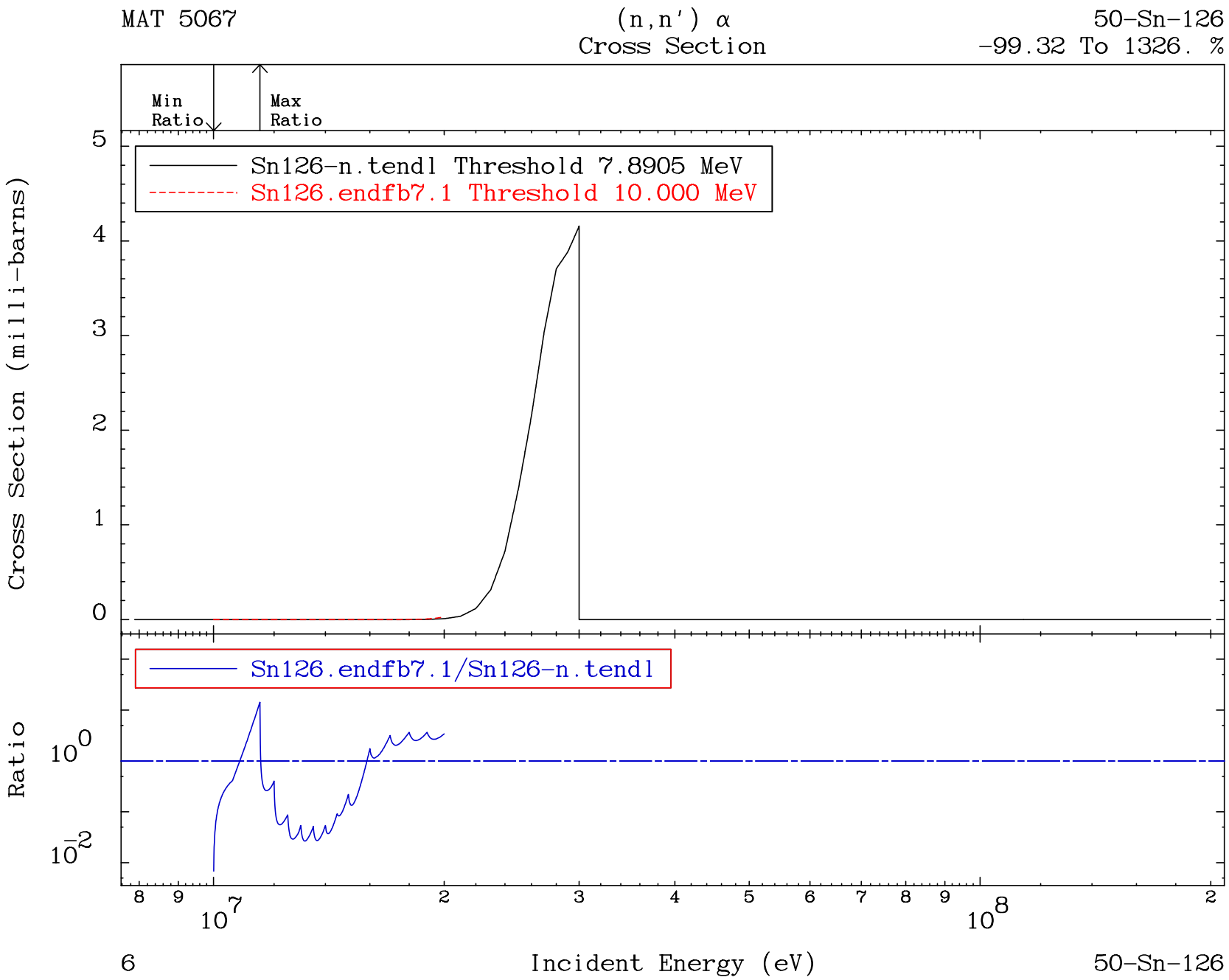

MAT 5067
Total
Cross Section
50-Sn-126
-97.37 To 9999. %
Max Ratio
Min Ratio
Sn126-n.tendl
Sn126.endfb7.1
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
1
50-Sn-126

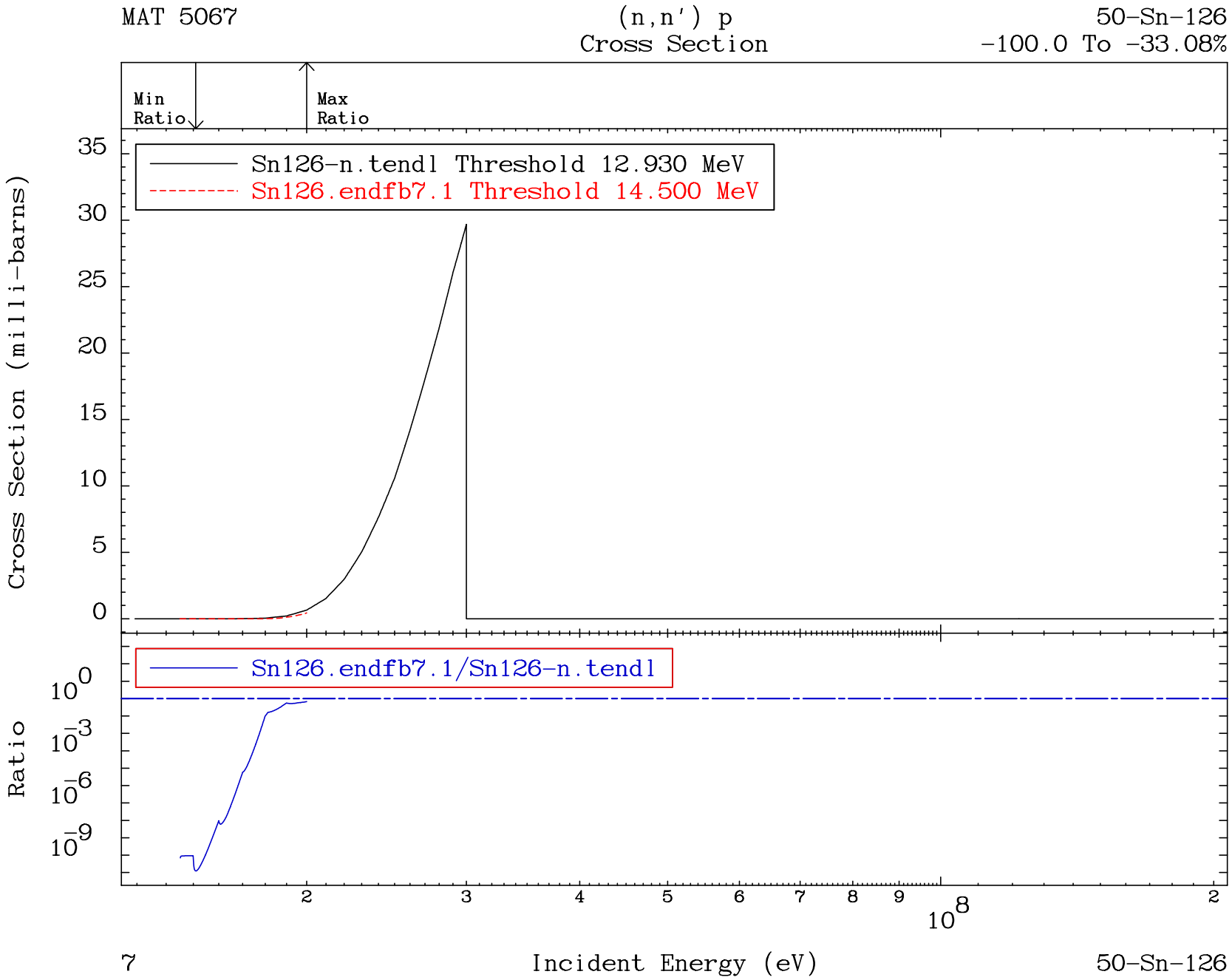

MAT 5067
Elastic
Cross Section
50-Sn-126
-97.38 To 9999. %
Max Ratio
Min Ratio
Sn126-n.tendl
Sn126.endfb7.1
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
2
50-Sn-126

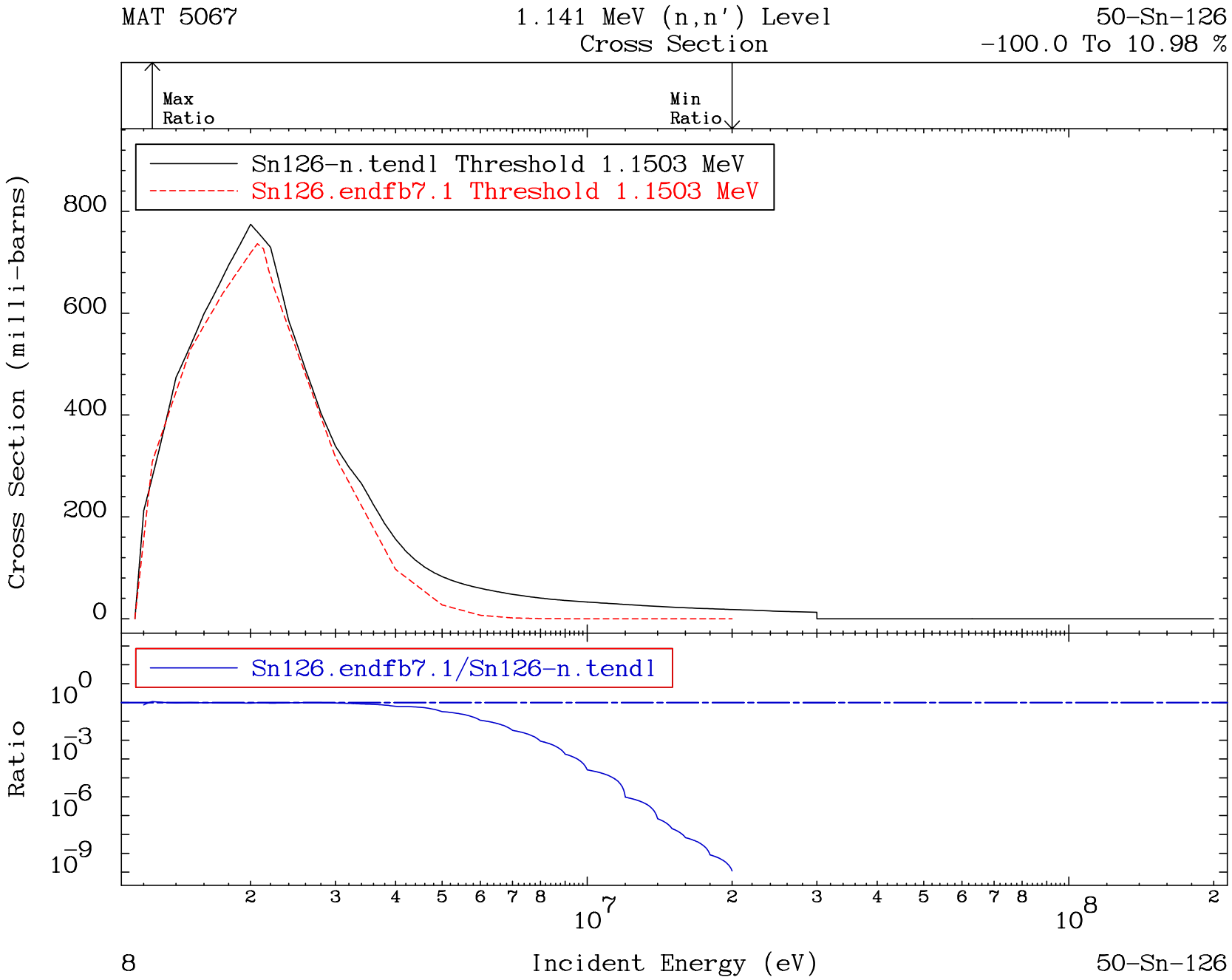

MAT 5067
Inelastic
Cross Section
50-Sn-126
-53.62 To 10.98 %
Max
Ratio
Min
Ratio
Sn126-n.tendl Threshold 1.1503 MeV
Sn126.endfb7.1 Threshold 1.1503 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
1.2
1.0
0.8
0.6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
50-Sn-126

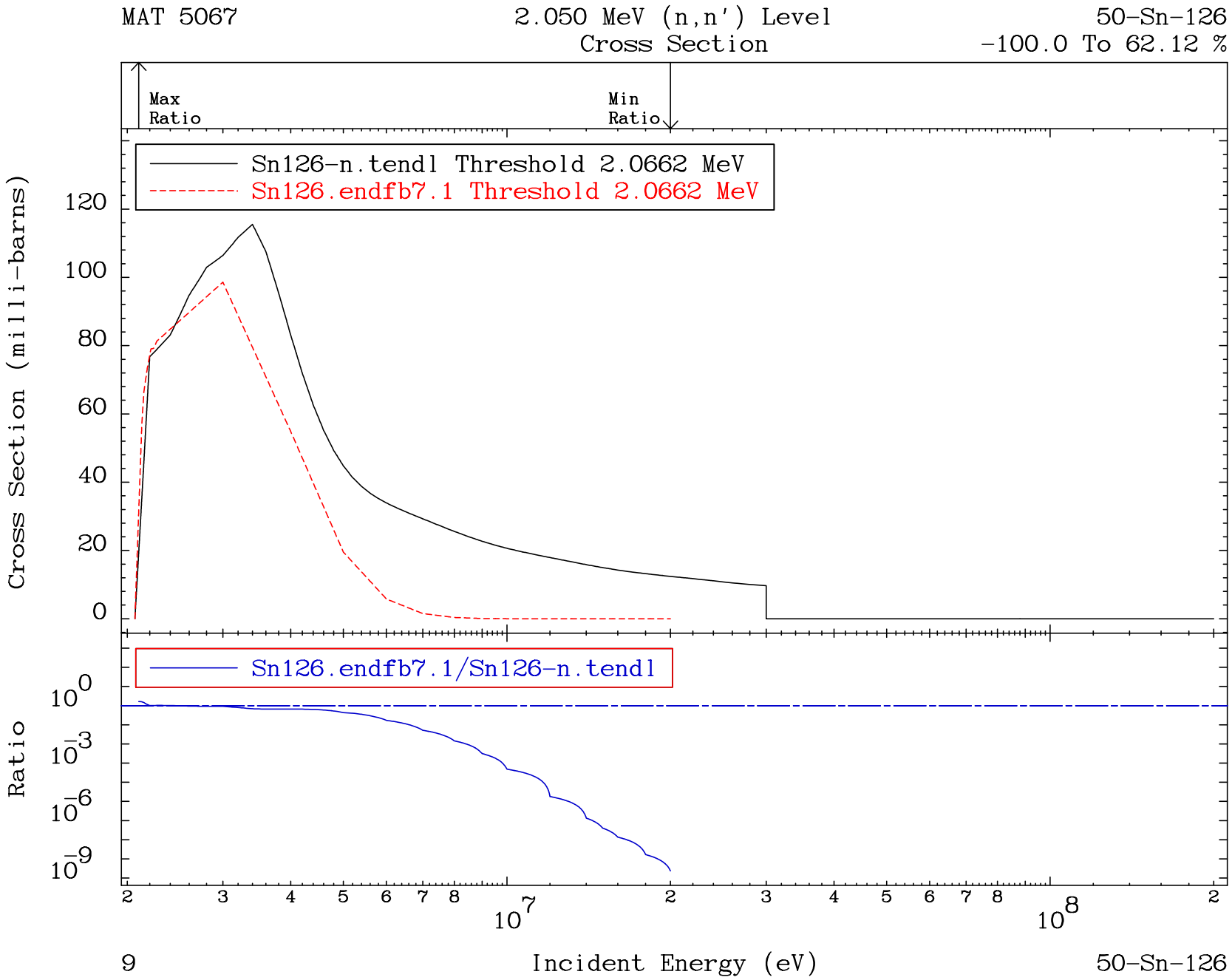

MAT 5067
(n,2n)
Cross Section
50-Sn-126
-52.22 To 109.0 %
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 8.2558 MeV
Sn126.endfb7.1 Threshold 8.2638 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
2.5
2.0
1.5
1.0
0.5
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
50-Sn-126

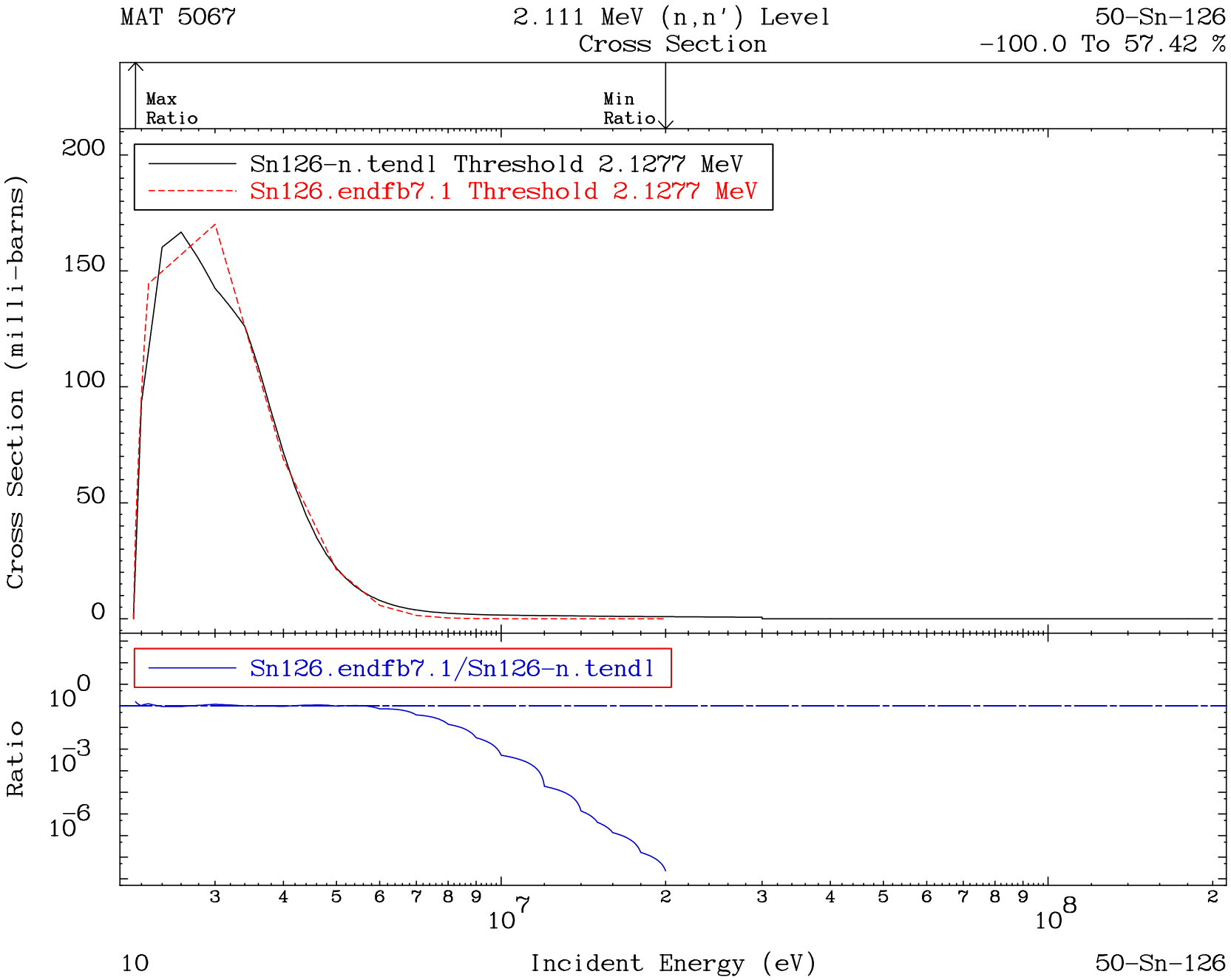

MAT 5067
(n,3n)
Cross Section
50-Sn-126
31.99 To 385.9 %
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 14.035 MeV
Sn126.endfb7.1 Threshold 14.048 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
4
2
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
50-Sn-126

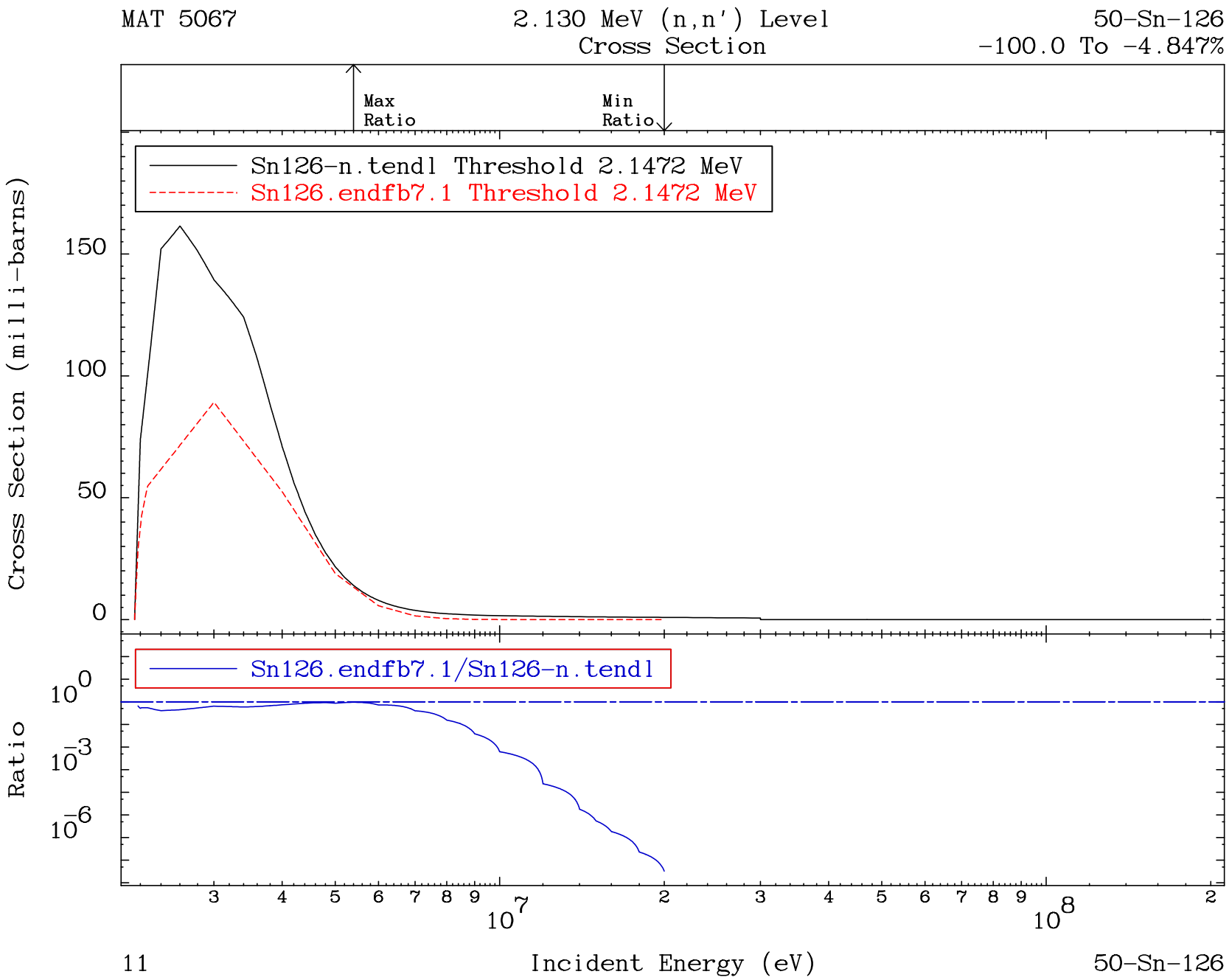

MAT 5067
(n,n') α
Cross Section
50-Sn-126
-99.32 To 1326. %
Min Ratio
Max Ratio
Sn126-n.tendl Threshold 7.8905 MeV
Sn126.endfb7.1 Threshold 10.000 MeV
Cross Section (milli-barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
6
50-Sn-126

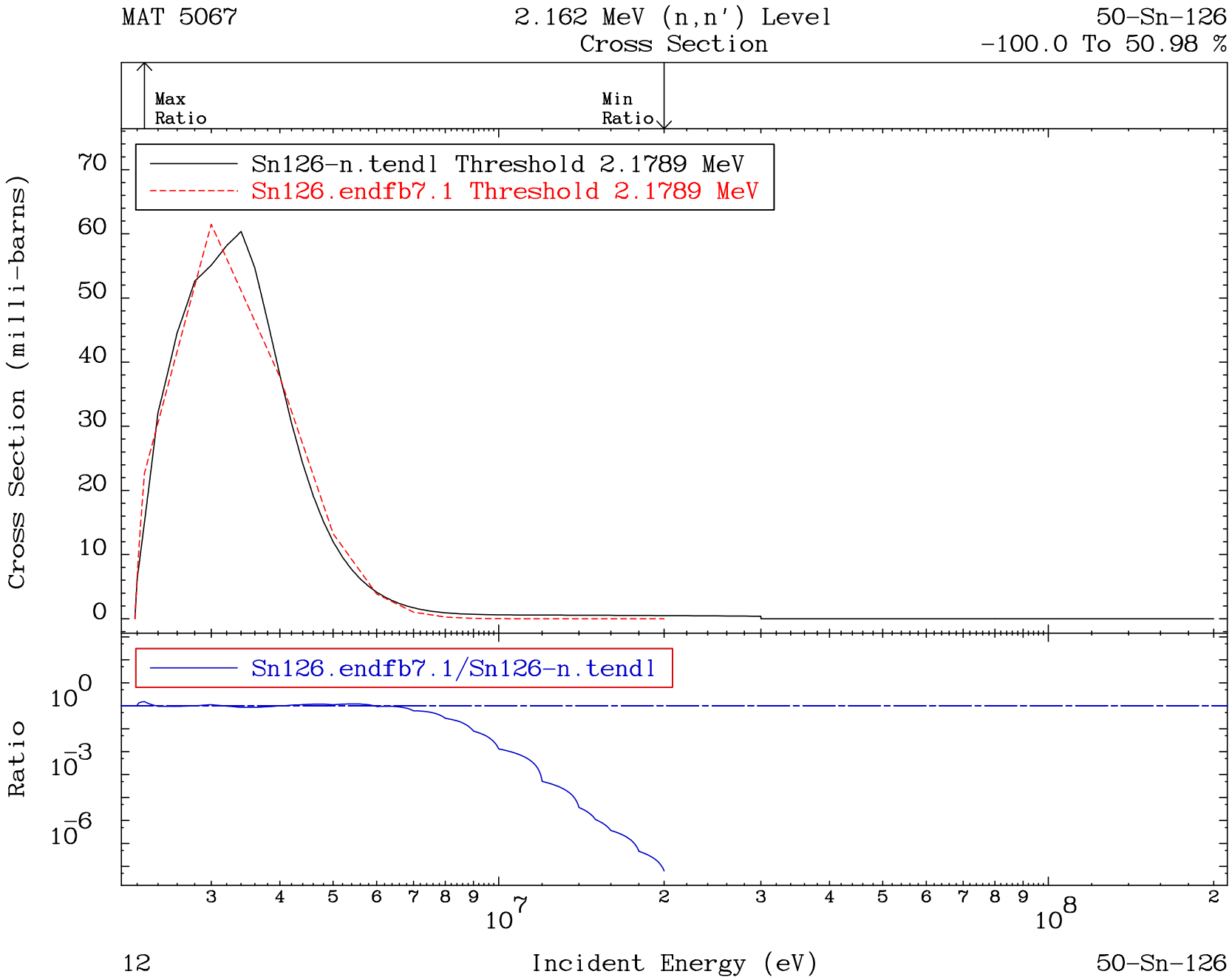

MAT 5067
(n,n') p
Cross Section
50-Sn-126
-100.0 To -33.08%
Min Ratio
Max Ratio
Sn126-n.tendl Threshold 12.930 MeV
Sn126.endfb7.1 Threshold 14.500 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
50-Sn-126

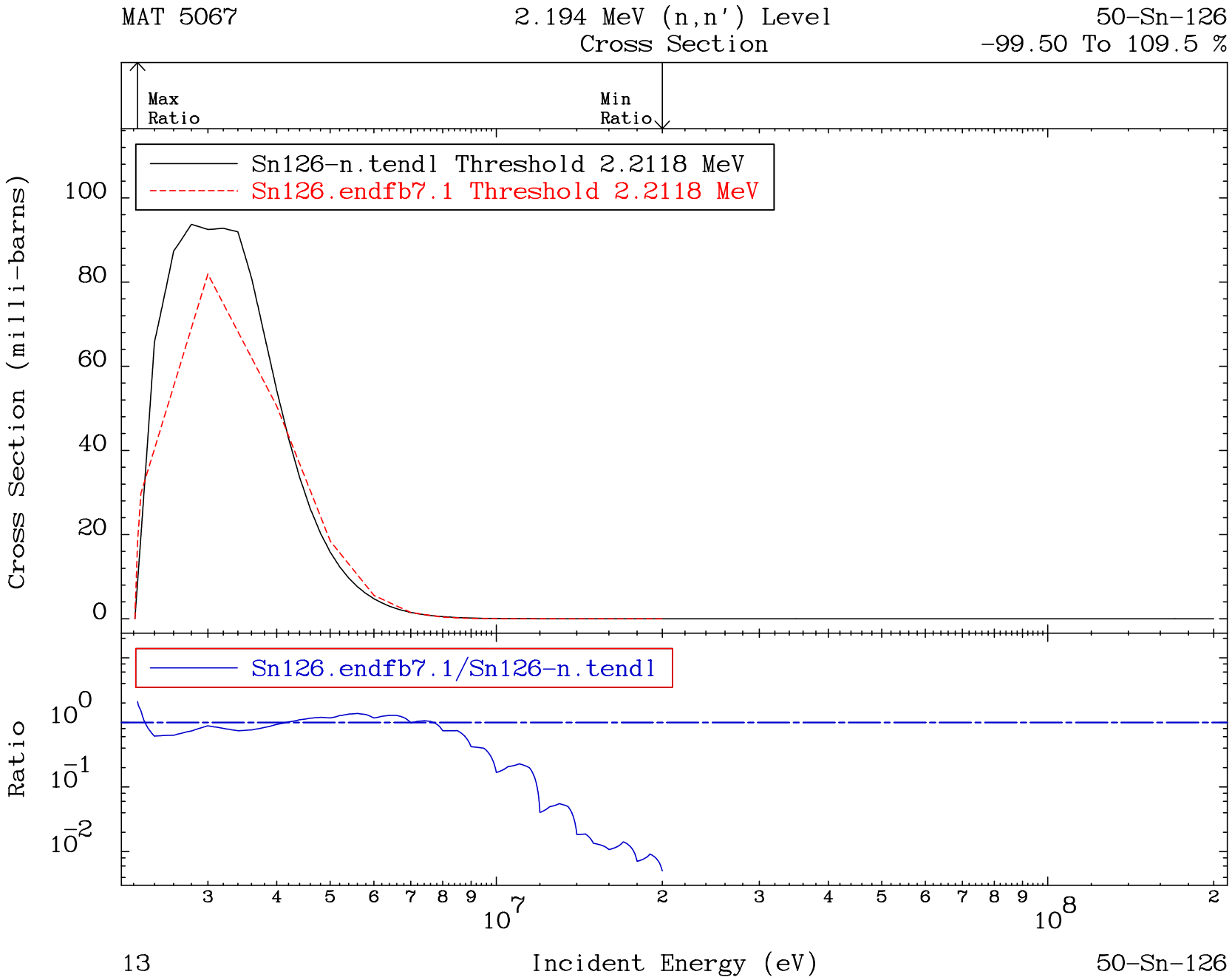

MAT 5067
1.141 MeV (n,n') Level
Cross Section
50-Sn-126
-100.0 To 10.98 %
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 1.1503 MeV
Sn126.endfb7.1 Threshold 1.1503 MeV
Cross Section (milli-barns)
800
600
400
200
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
50-Sn-126

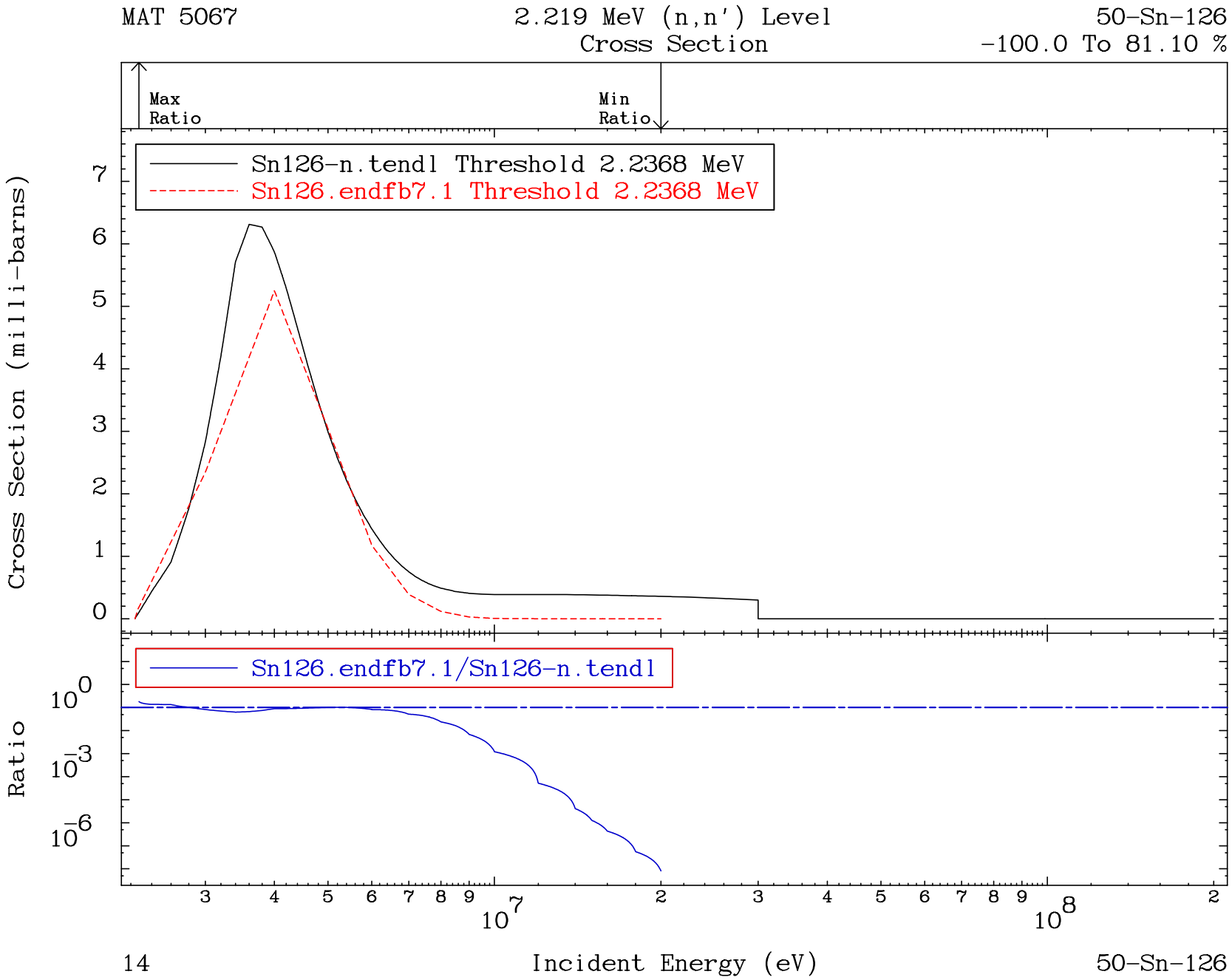

MAT 5067
2.050 MeV (n,n') Level
Cross Section
50-Sn-126
-100.0 To 62.12 %
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 2.0662 MeV
Sn126.endfb7.1 Threshold 2.0662 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
50-Sn-126

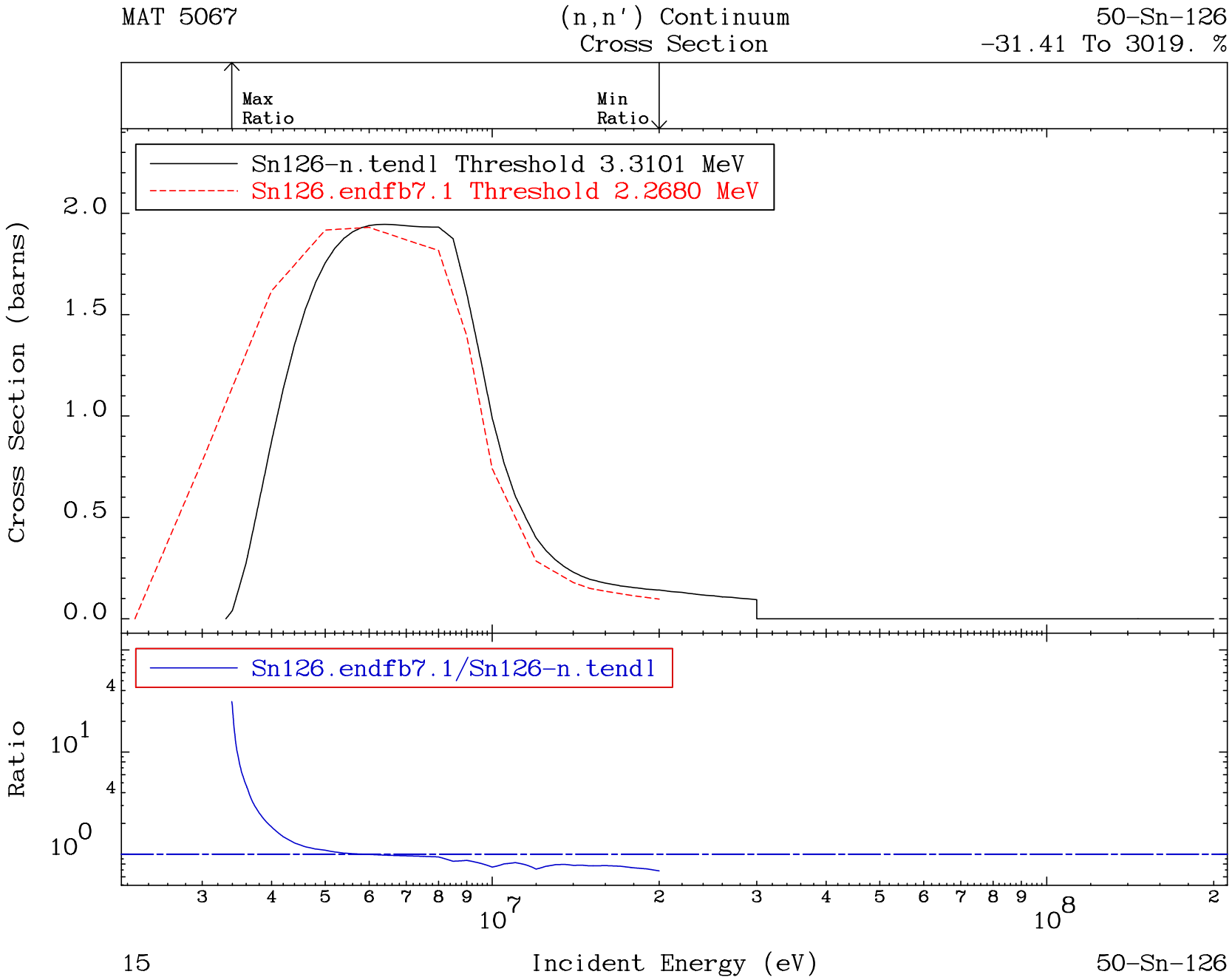

MAT 5067
2.111 MeV (n,n') Level
Cross Section
50-Sn-126
-100.0 To 57.42 %
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 2.1277 MeV
Sn126.endfb7.1 Threshold 2.1277 MeV
Cross Section (milli-barns)
200
150
100
50
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^0
10^-3
10^-6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
50-Sn-126

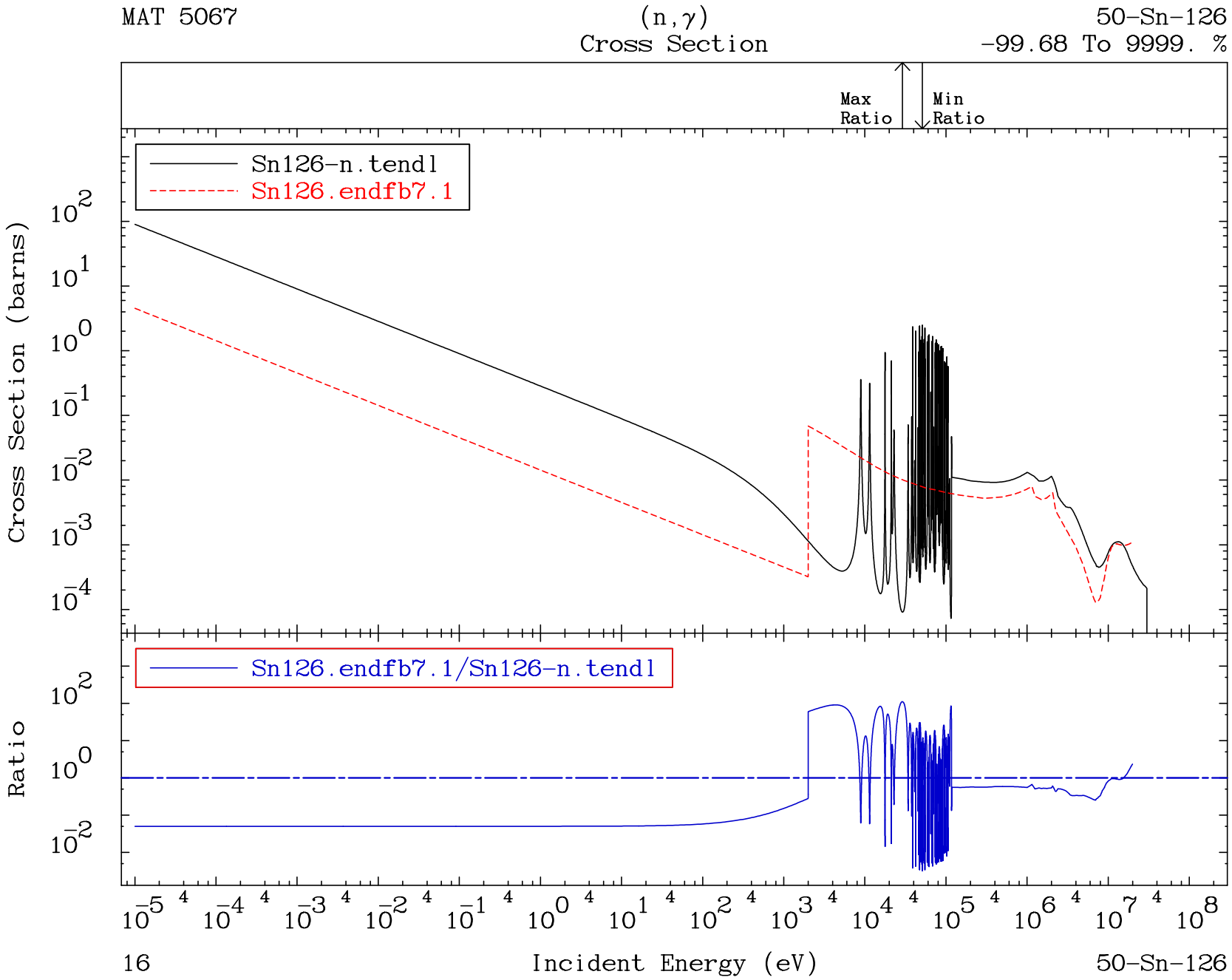

MAT 5067
2.130 MeV (n,n') Level
Cross Section
50-Sn-126
-100.0 To -4.847%
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 2.1472 MeV
Sn126.endfb7.1 Threshold 2.1472 MeV
Cross Section (milli-barns)
150
100
50
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^0
10^-3
10^-6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
50-Sn-126

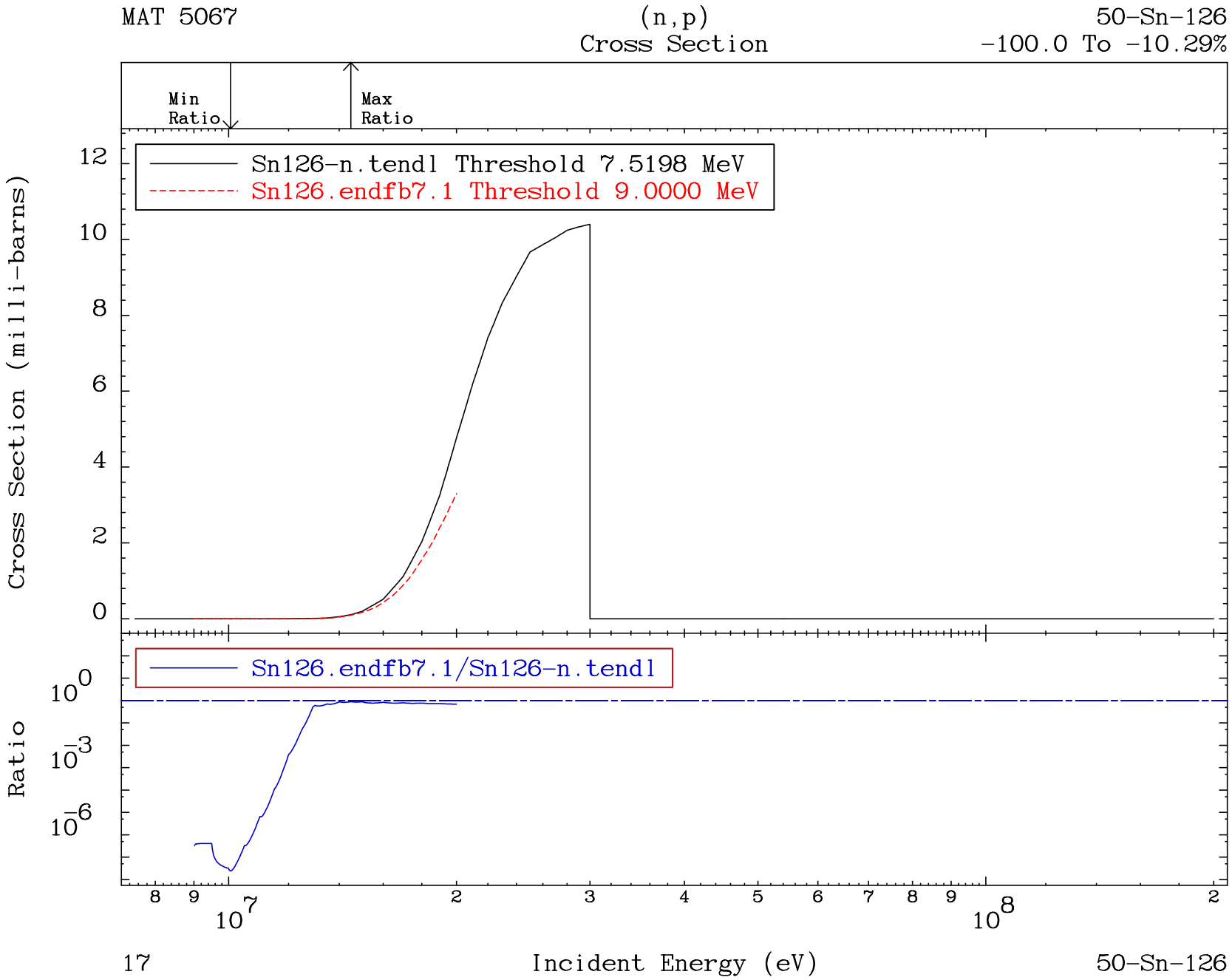

MAT 5067
2.162 MeV (n,n') Level
Cross Section
50-Sn-126
-100.0 To 50.98 %
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 2.1789 MeV
Sn126.endfb7.1 Threshold 2.1789 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^0
10^-3
10^-6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
50-Sn-126

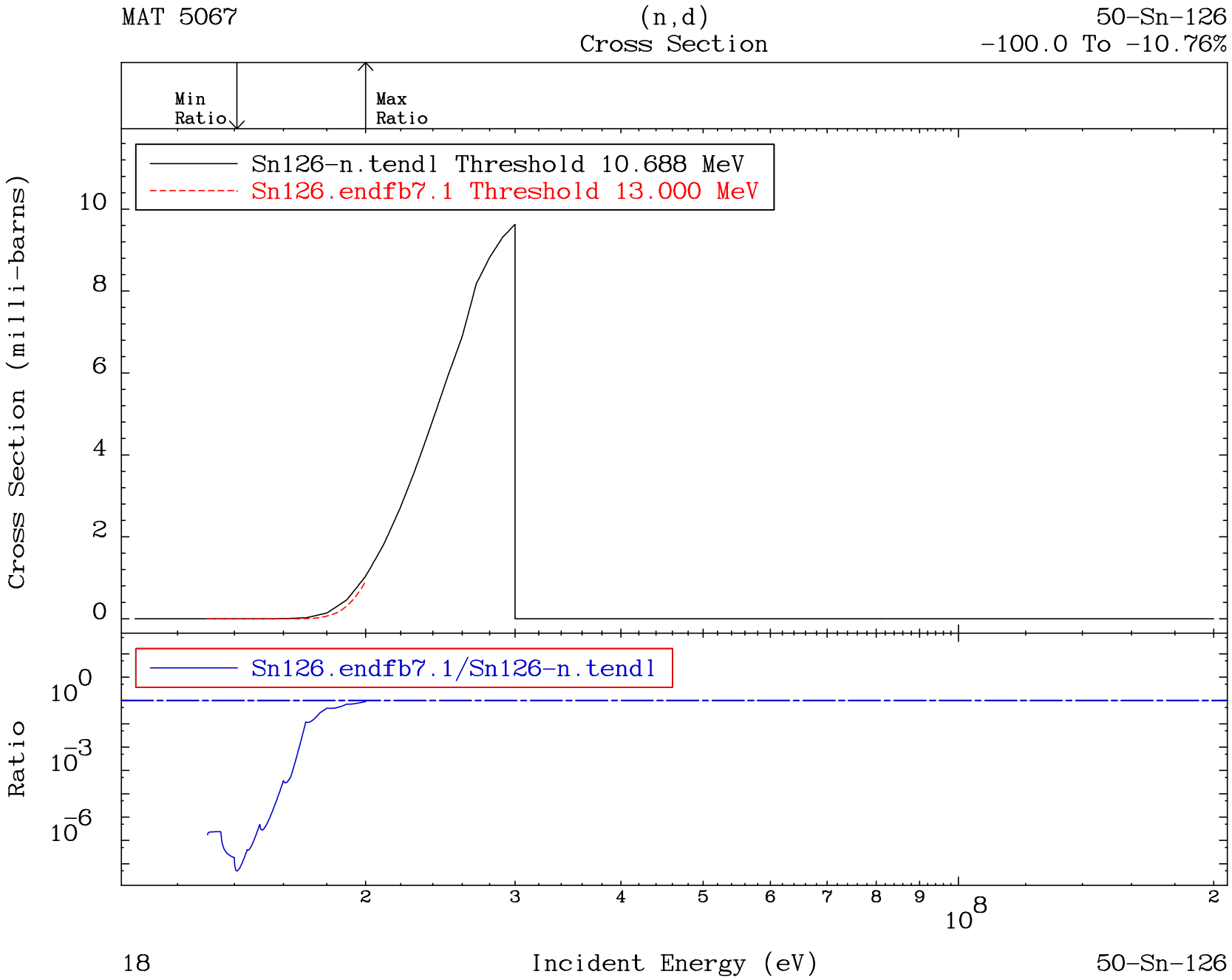

MAT 5067
2.194 MeV (n,n') Level
Cross Section
50-Sn-126
-99.50 To 109.5 %
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 2.2118 MeV
Sn126.endfb7.1 Threshold 2.2118 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
50-Sn-126

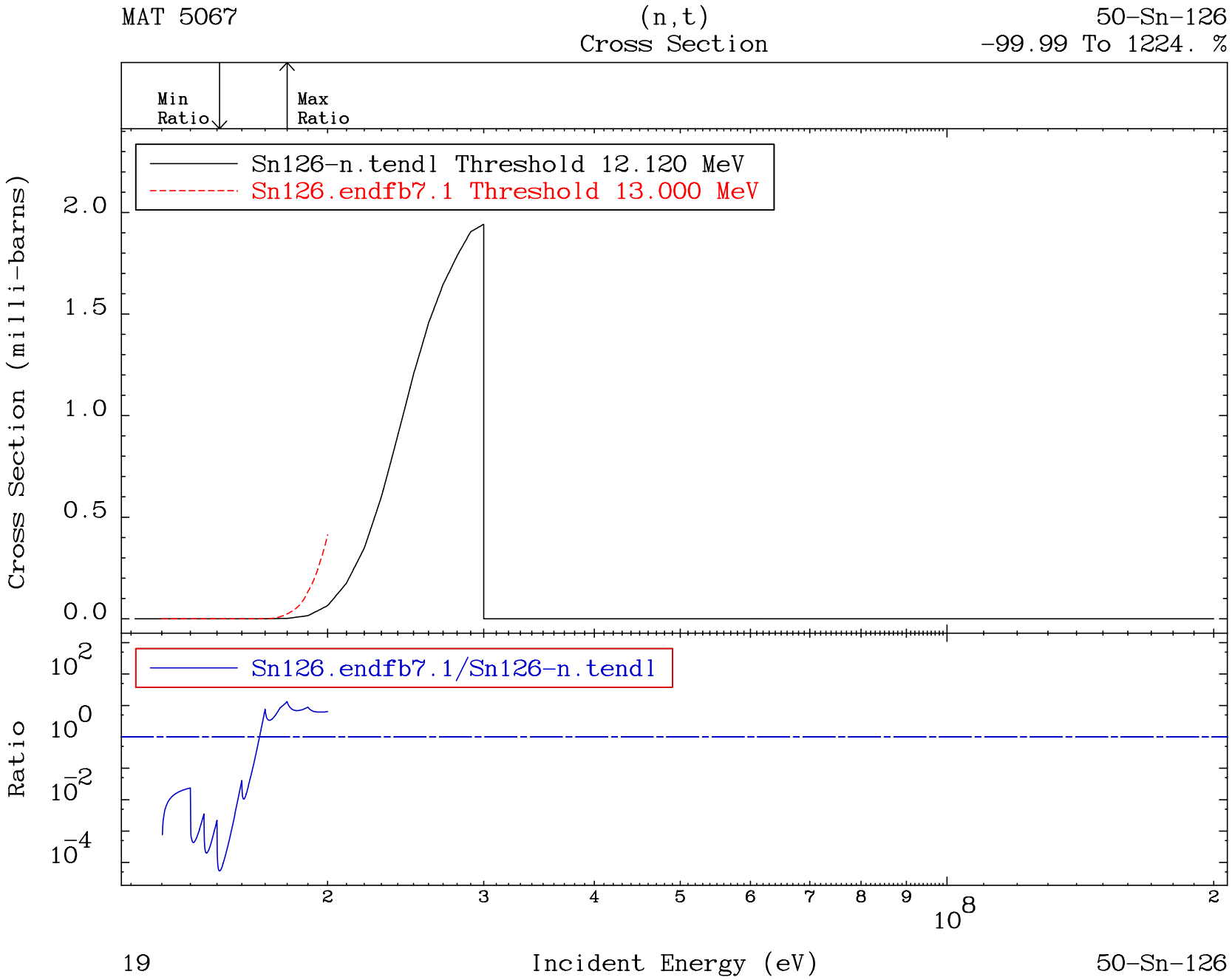

MAT 5067
2.219 MeV (n,n') Level
Cross Section
50-Sn-126
-100.0 To 81.10 %
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 2.2368 MeV
Sn126.endfb7.1 Threshold 2.2368 MeV
Cross Section (milli-barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
14
50-Sn-126

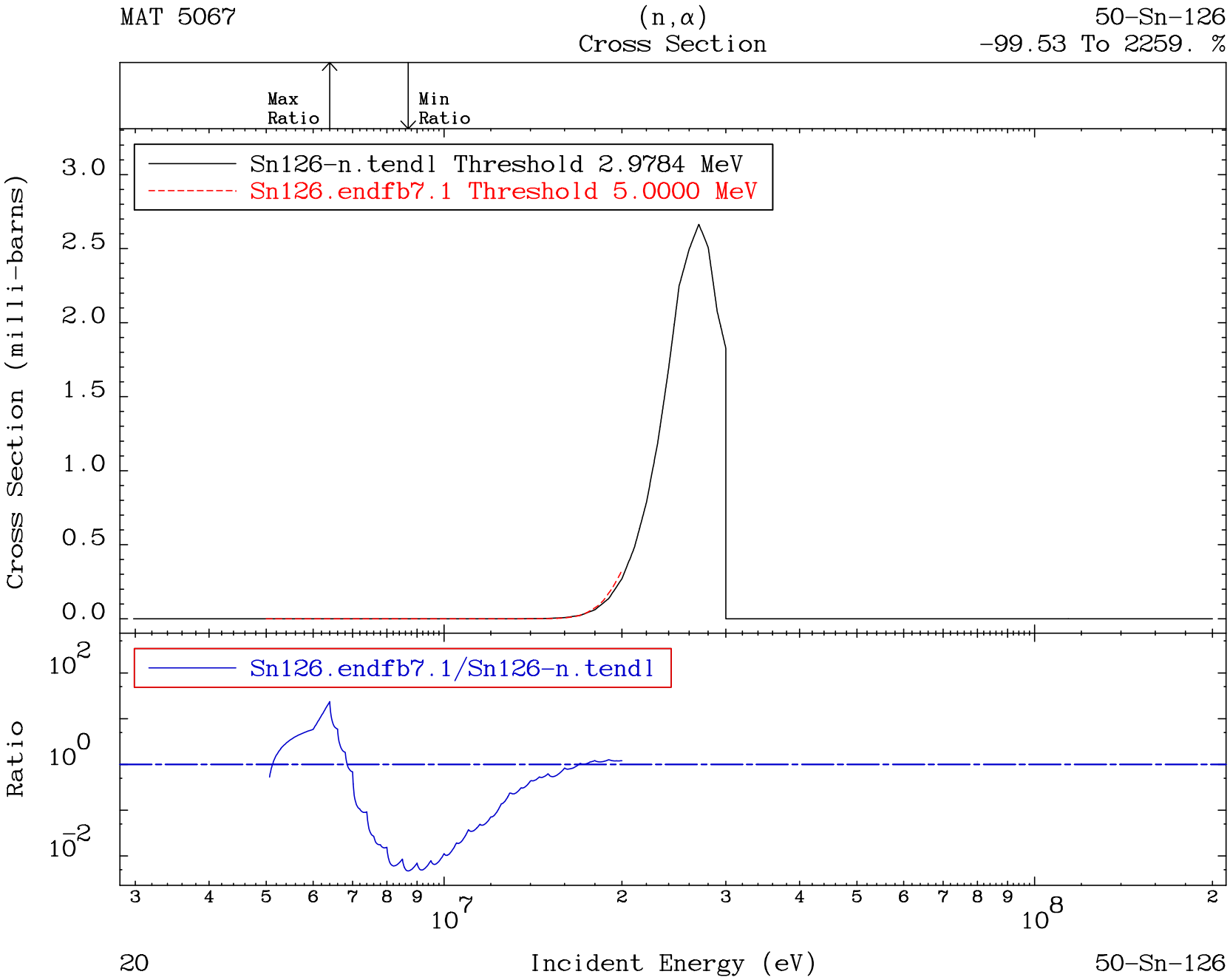

MAT 5067
(n,n') Continuum
Cross Section
50-Sn-126
-31.41 To 3019. %
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 3.3101 MeV
Sn126.endfb7.1 Threshold 2.2680 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
50-Sn-126

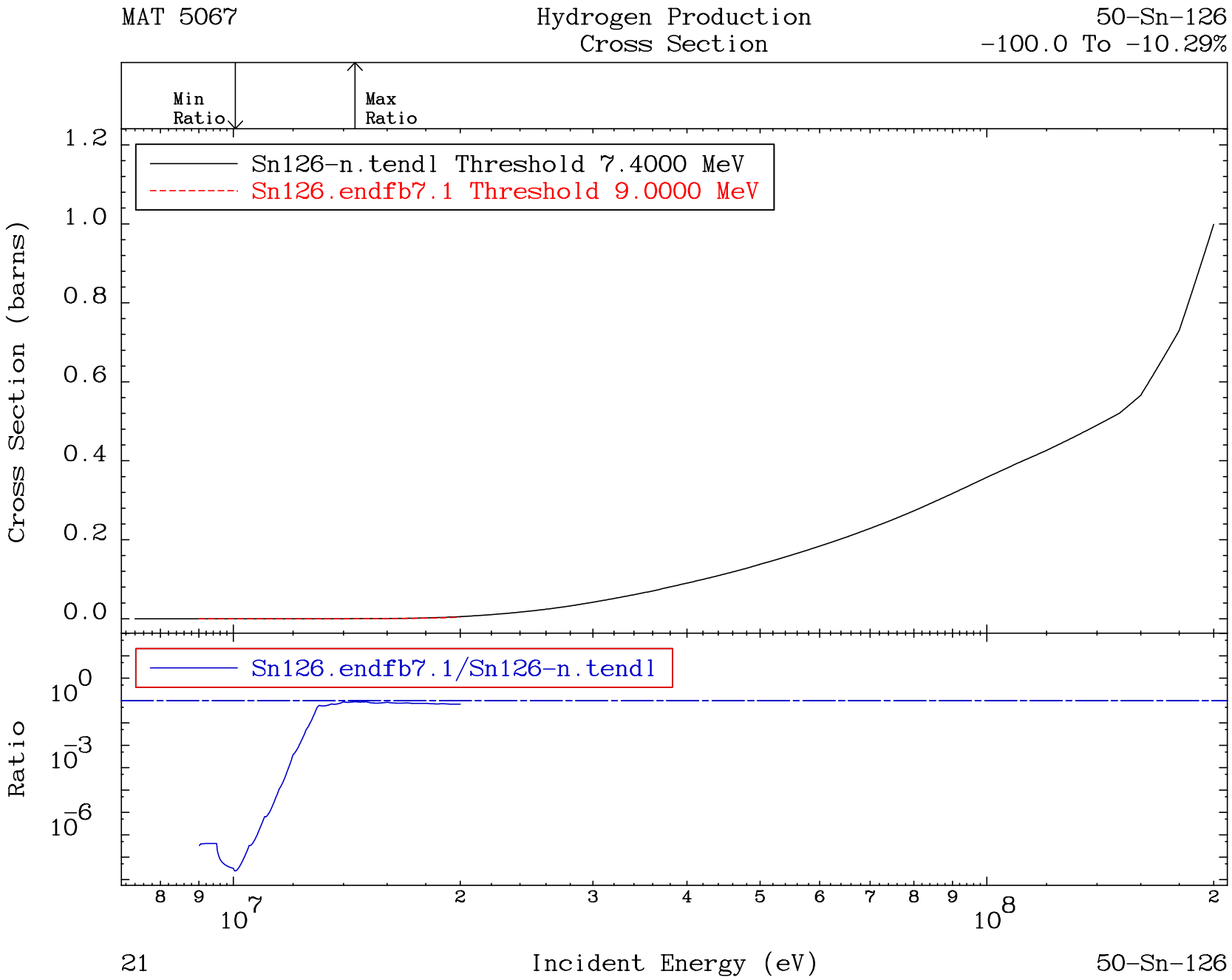

MAT 5067
(n,γ)
Cross Section
50-Sn-126
-99.68 To 9999. %
Max Ratio
Min Ratio
Sn126-n.tendl
Sn126.endfb7.1
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
16
50-Sn-126

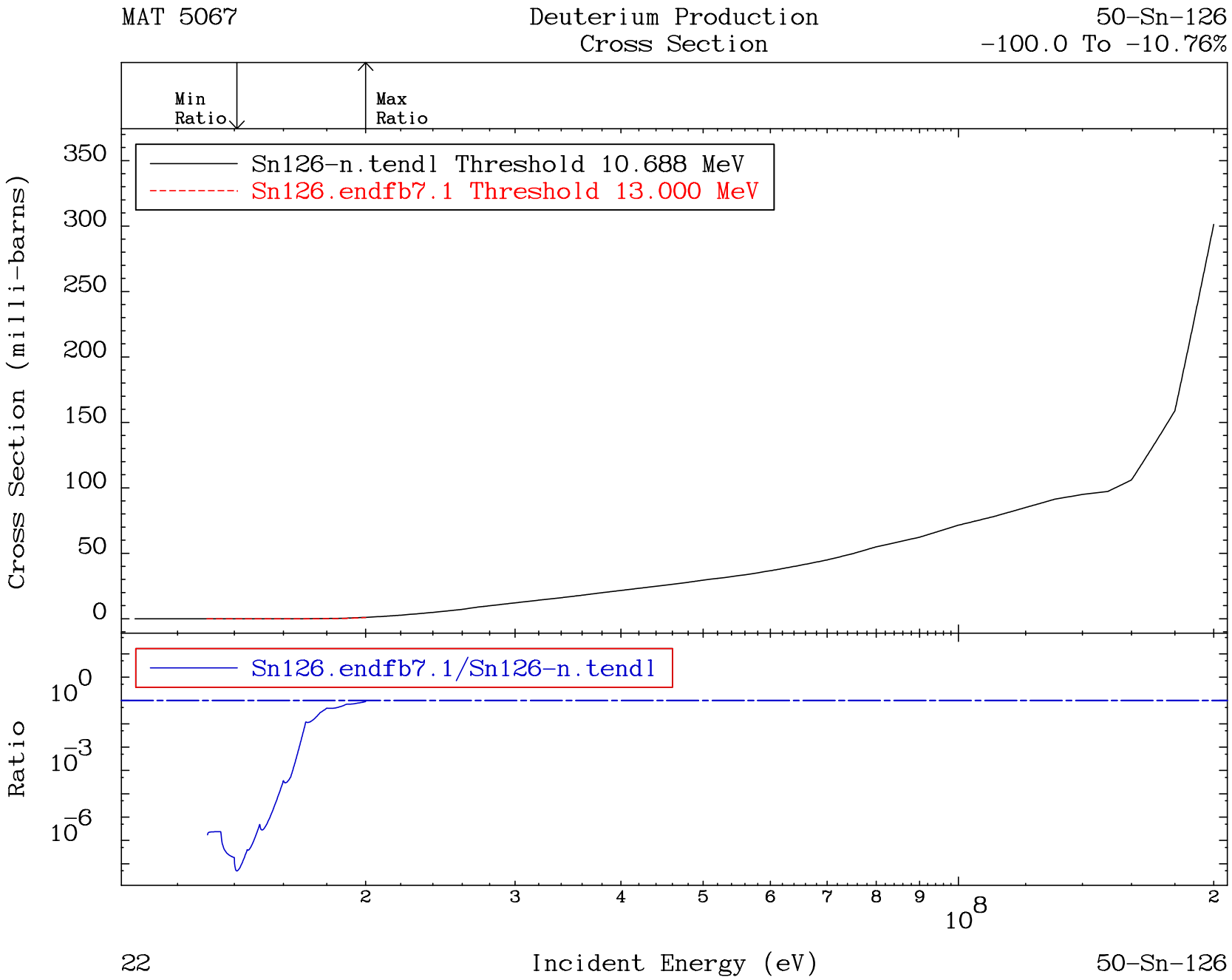

MAT 5067
(n,p)
Cross Section
50-Sn-126
-100.0 To -10.29%
Min Ratio
Max Ratio
Sn126-n.tendl Threshold 7.5198 MeV
Sn126.endfb7.1 Threshold 9.0000 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^0
10^-3
10^-6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
50-Sn-126

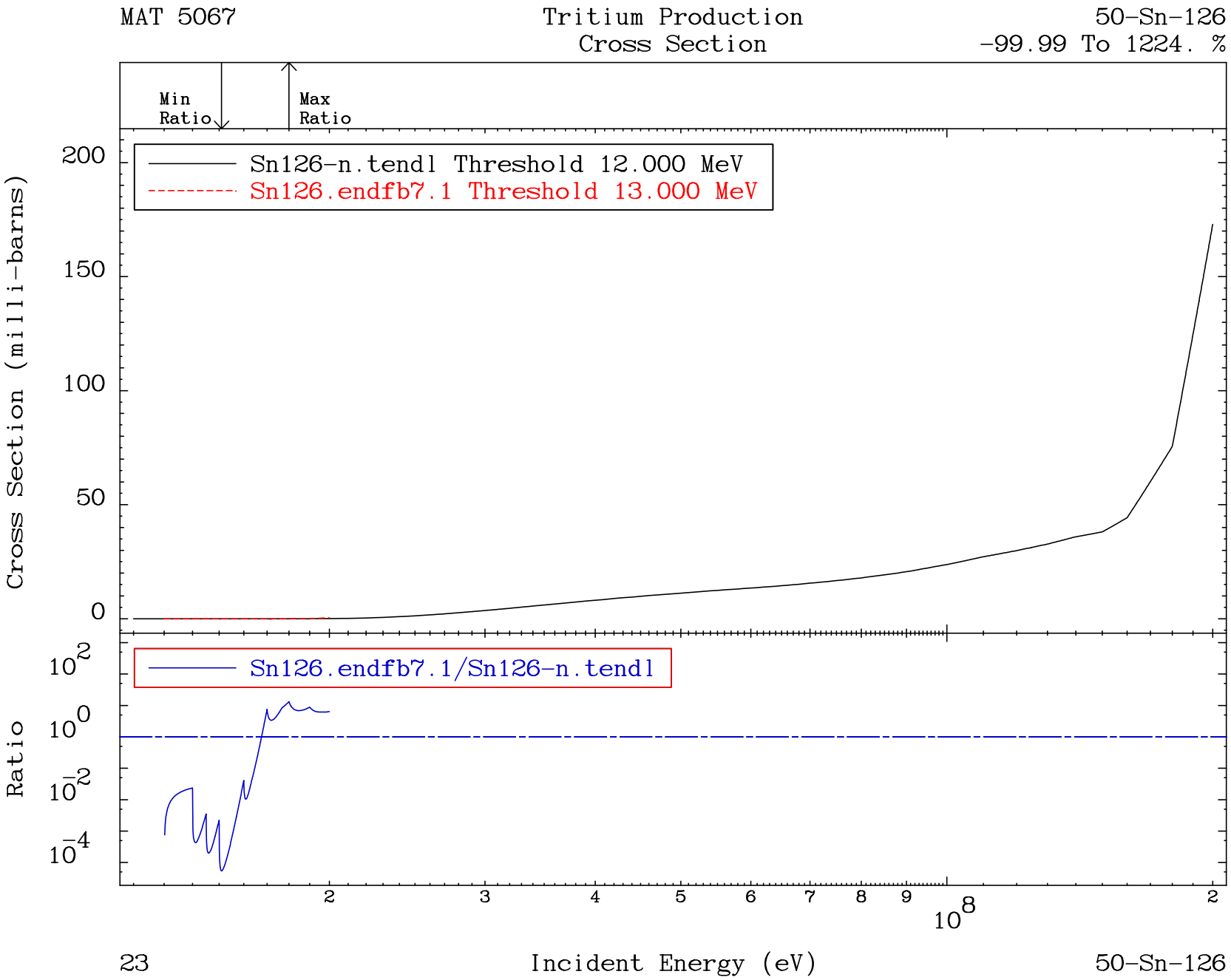

MAT 5067
(n,d)
Cross Section
50-Sn-126
-100.0 To -10.76%
Min Ratio
Max Ratio
Sn126-n.tendl Threshold 10.688 MeV
Sn126.endfb7.1 Threshold 13.000 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
50-Sn-126

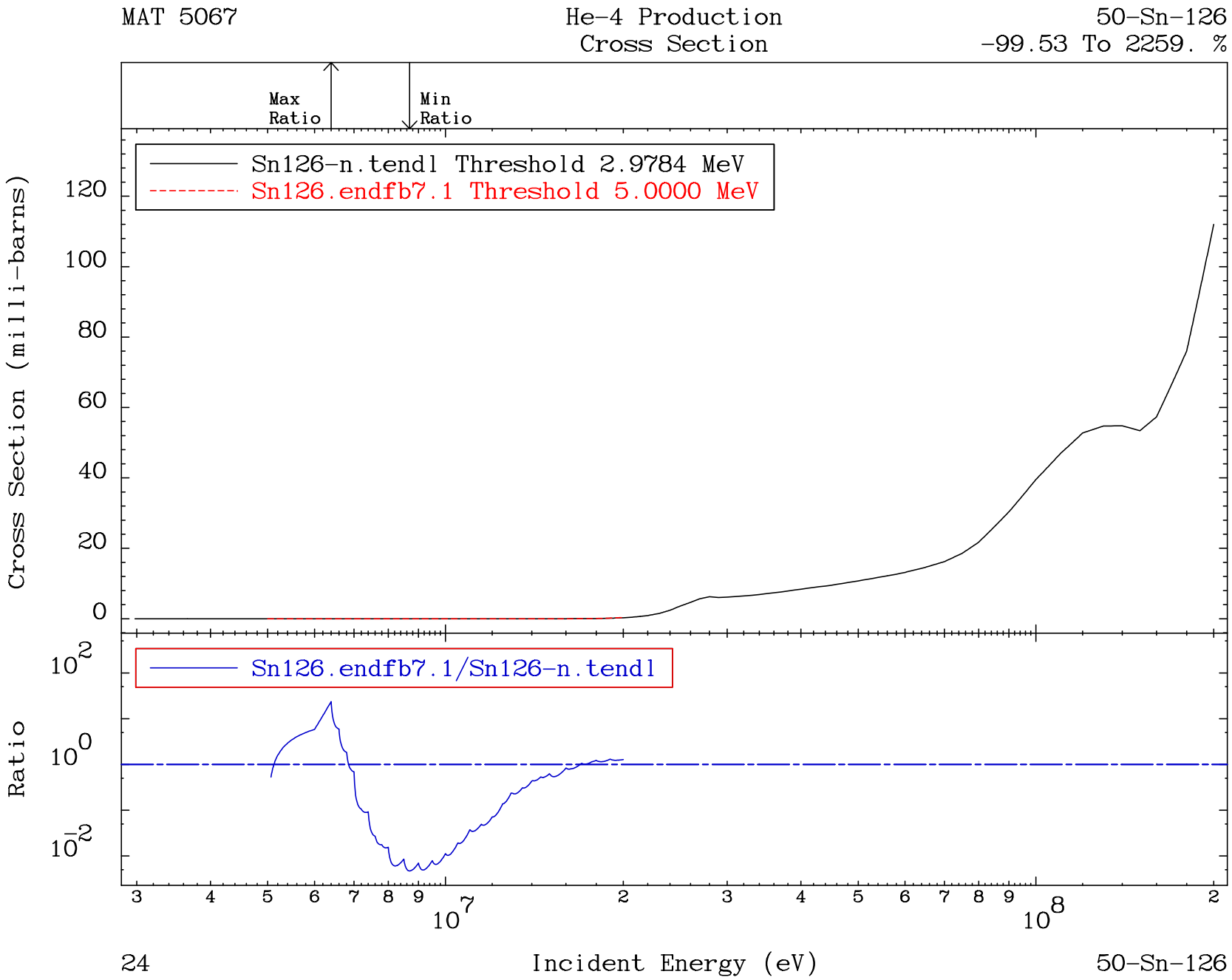

MAT 5067
(n,t)
Cross Section
50-Sn-126
-99.99 To 1224. %
Min Ratio
Max Ratio
Sn126-n.tendl Threshold 12.120 MeV
Sn126.endfb7.1 Threshold 13.000 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^2
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
50-Sn-126

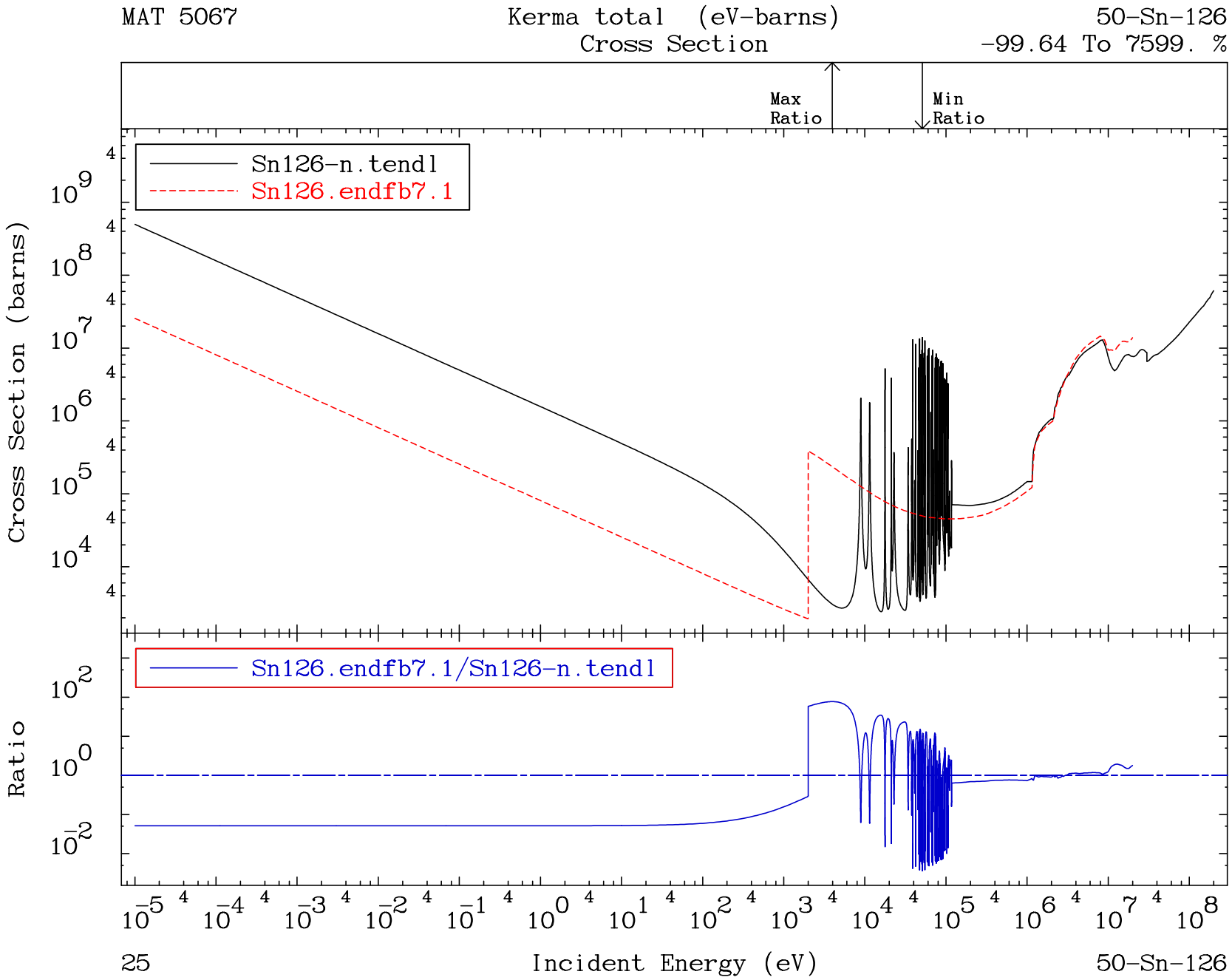

MAT 5067
(n,α)
Cross Section
50-Sn-126
-99.53 To 2259. %
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 2.9784 MeV
Sn126.endfb7.1 Threshold 5.0000 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^2
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
50-Sn-126

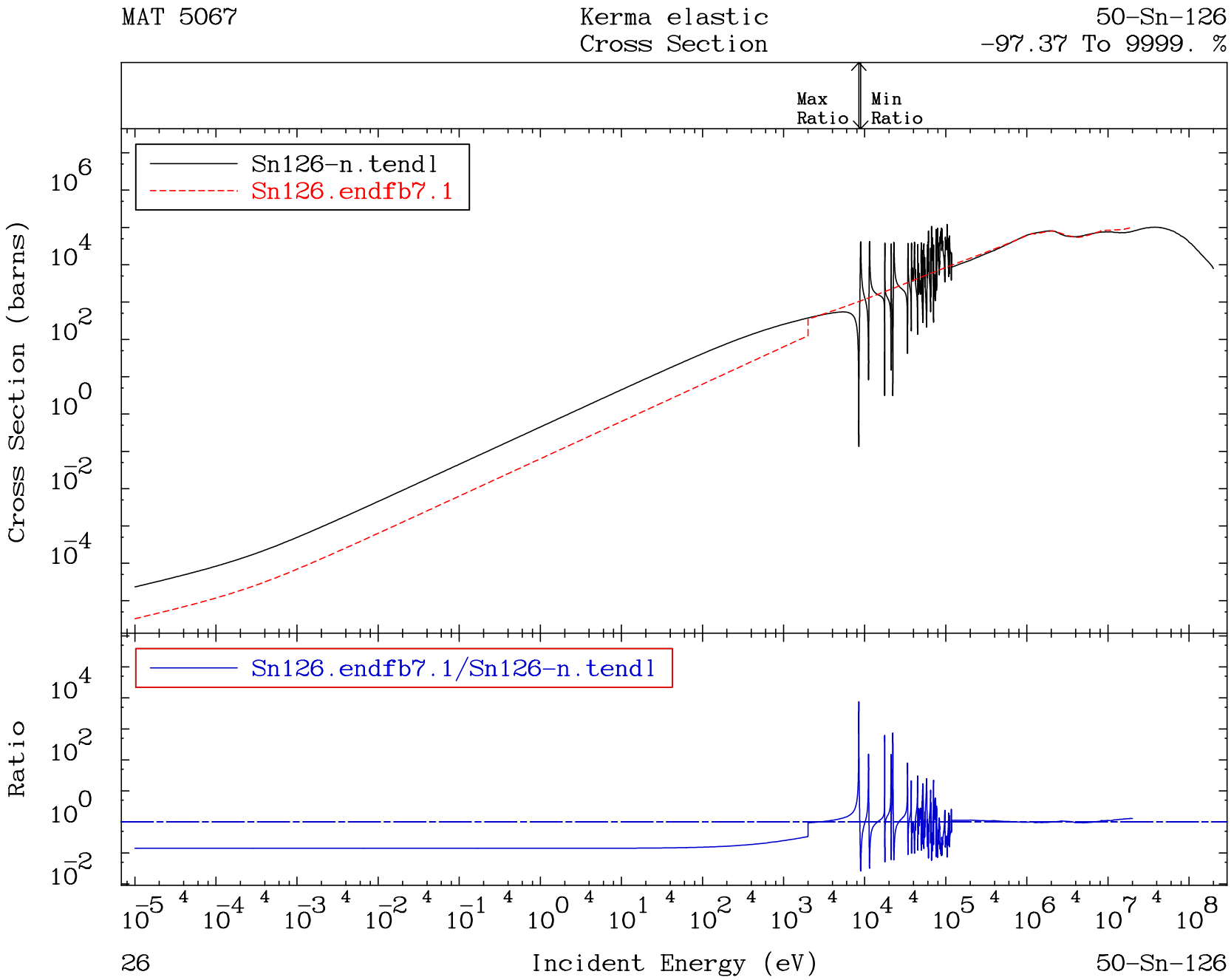

MAT 5067
Hydrogen Production
Cross Section
50-Sn-126
-100.0 To -10.29%
Min Ratio
Max Ratio
Sn126-n.tendl Threshold 7.4000 MeV
Sn126.endfb7.1 Threshold 9.0000 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^0
10^-3
10^-6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
50-Sn-126

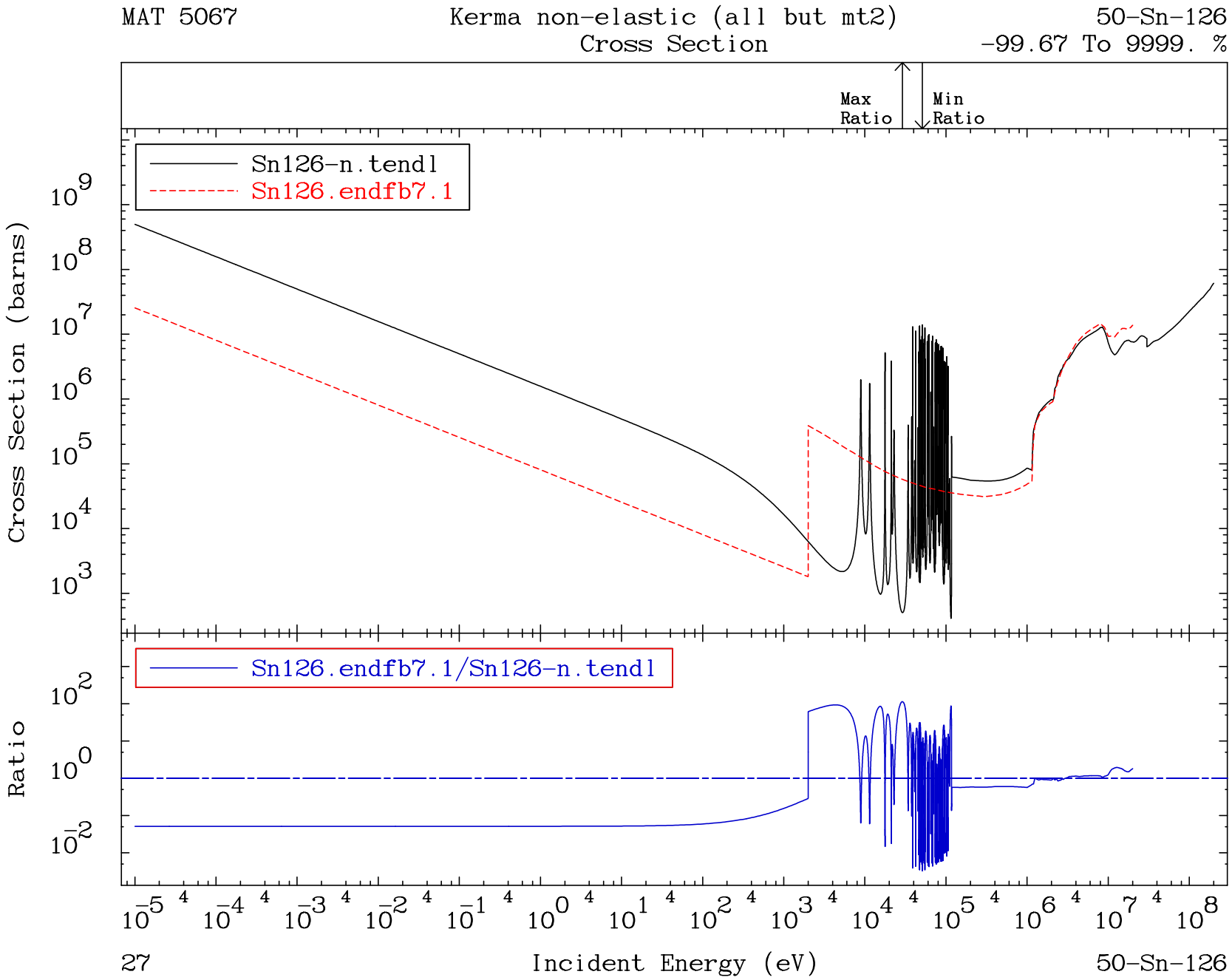

MAT 5067
Deuterium Production
Cross Section
50-Sn-126
-100.0 To -10.76%
Min Ratio
Max Ratio
Sn126-n.tendl Threshold 10.688 MeV
Sn126.endfb7.1 Threshold 13.000 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^8
2
22
Incident Energy (eV)
50-Sn-126

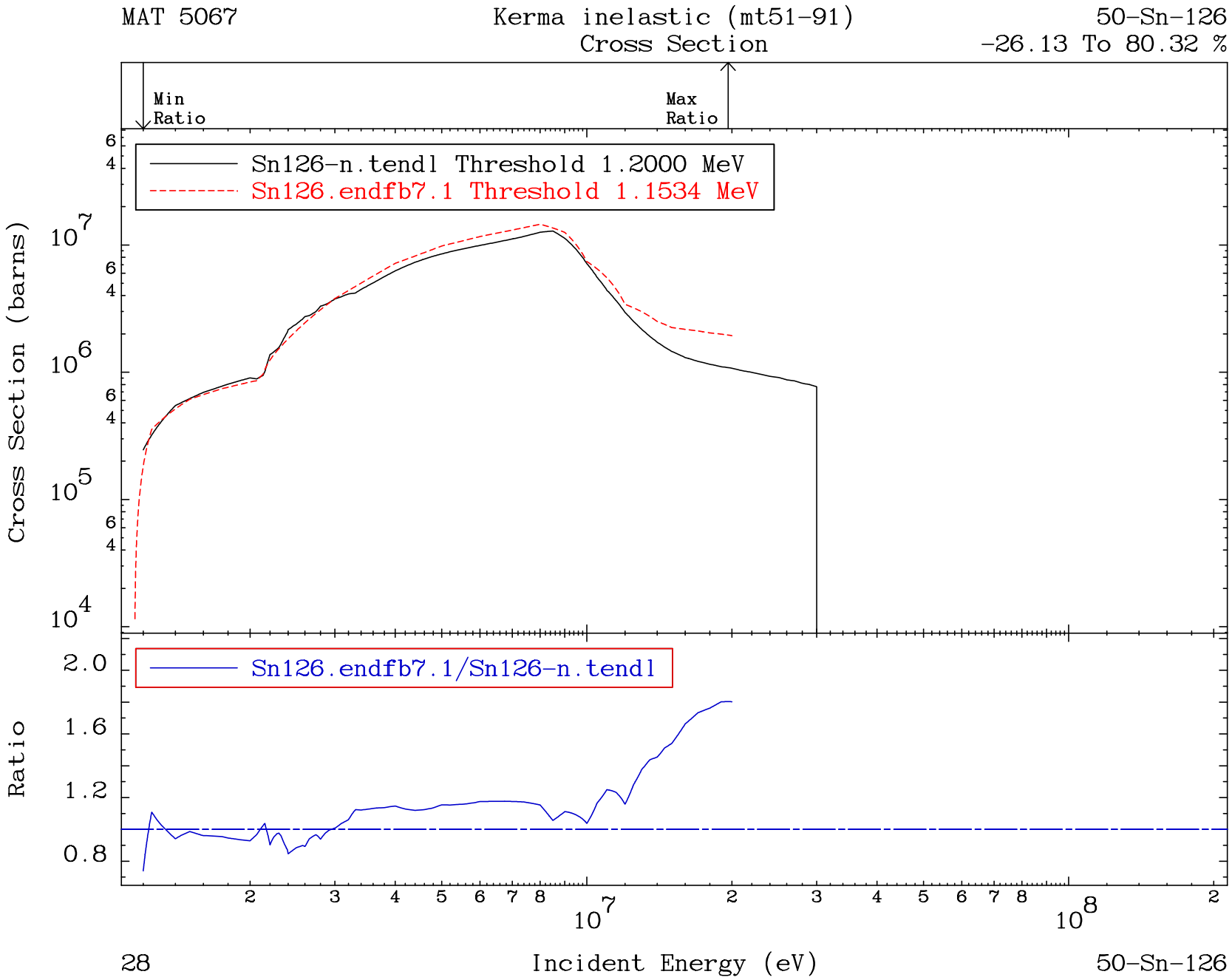

MAT 5067
Tritium Production
Cross Section
50-Sn-126
-99.99 To 1224. %
Min Ratio
Max Ratio
Sn126-n.tendl Threshold 12.000 MeV
Sn126.endfb7.1 Threshold 13.000 MeV
Cross Section (milli-barns)
200
150
100
50
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^2
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
23
Incident Energy (eV)
50-Sn-126

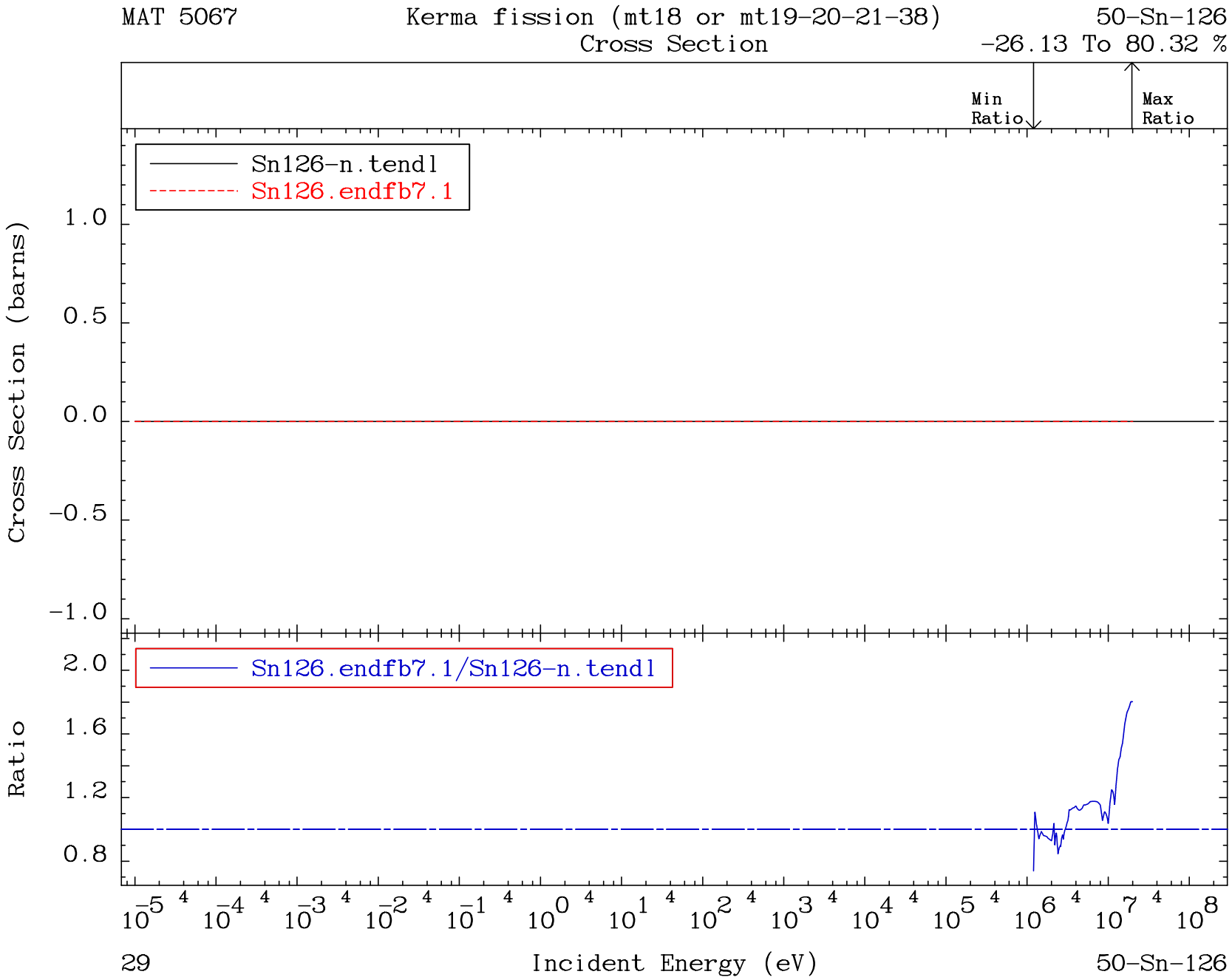

MAT 5067
He-4 Production
Cross Section
50-Sn-126
-99.53 To 2259. %
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 2.9784 MeV
Sn126.endfb7.1 Threshold 5.0000 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^2
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
50-Sn-126

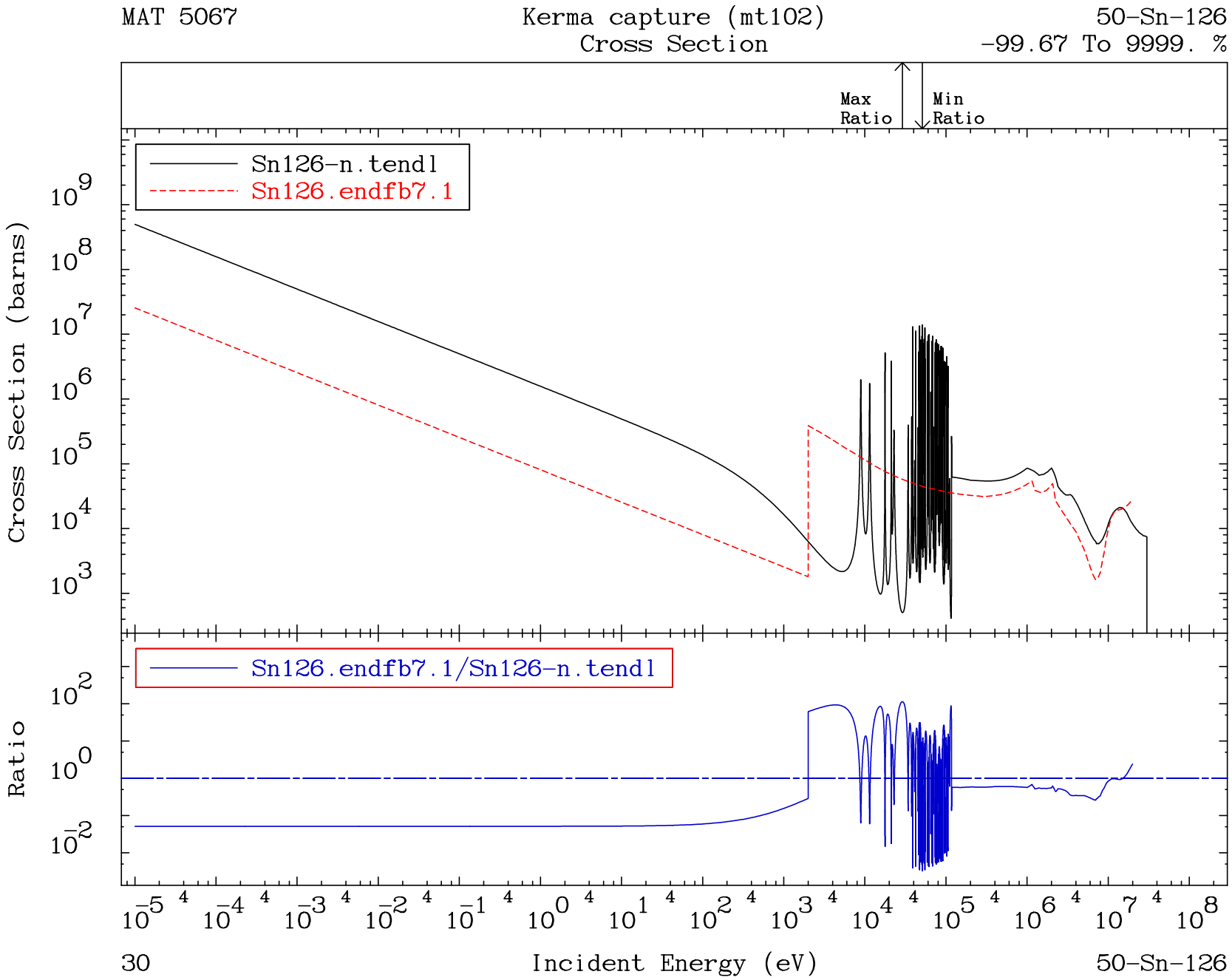

MAT 5067
Kerma total (eV-barns)
Cross Section
50-Sn-126
-99.64 To 7599. %
Max Ratio
Min Ratio
Sn126-n.tendl
Sn126.endfb7.1
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
25
50-Sn-126

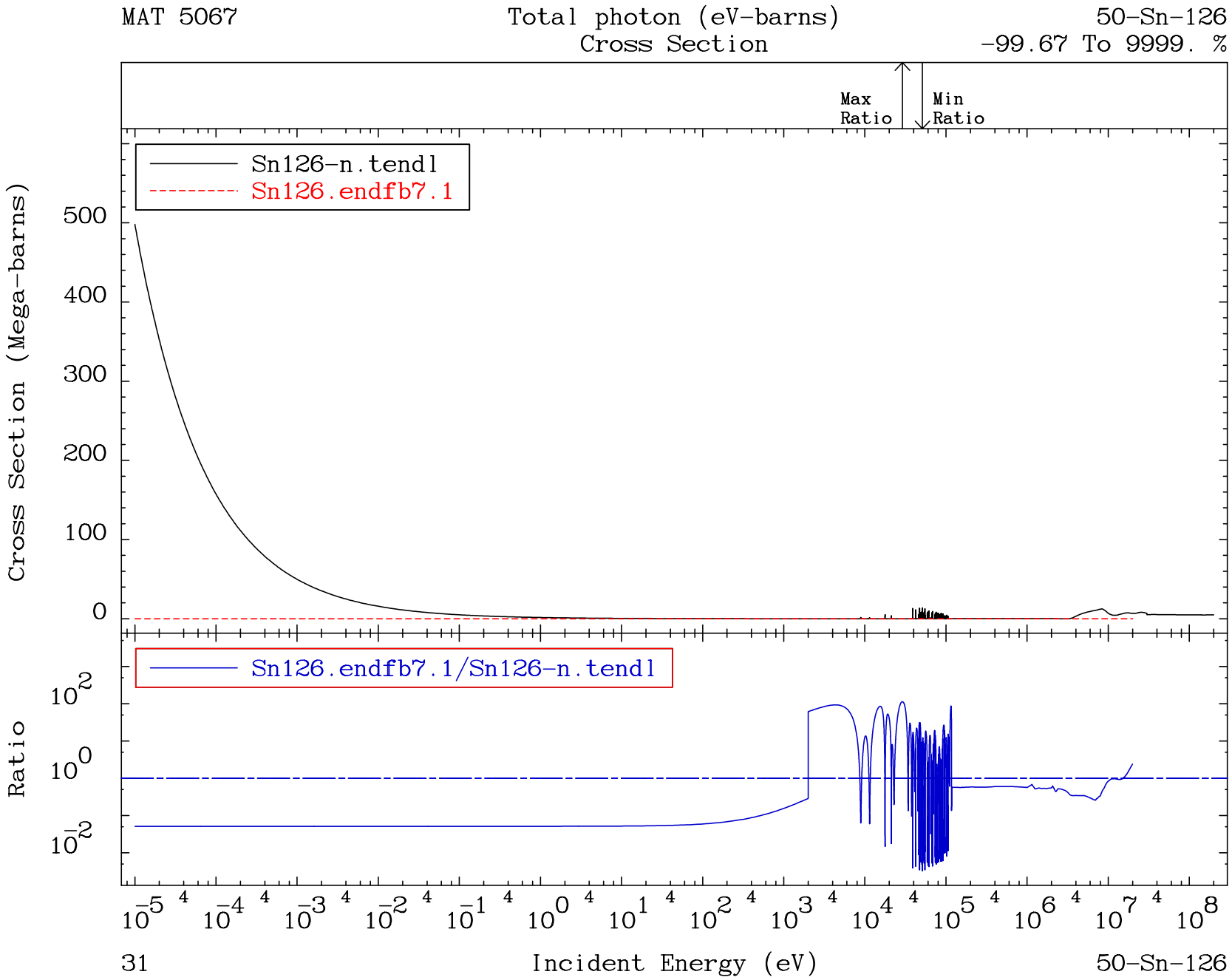

MAT 5067
Kerma elastic
Cross Section
50-Sn-126
-97.37 To 9999. %
Max Ratio
Min Ratio
Sn126-n.tendl
Sn126.endfb7.1
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
26
50-Sn-126

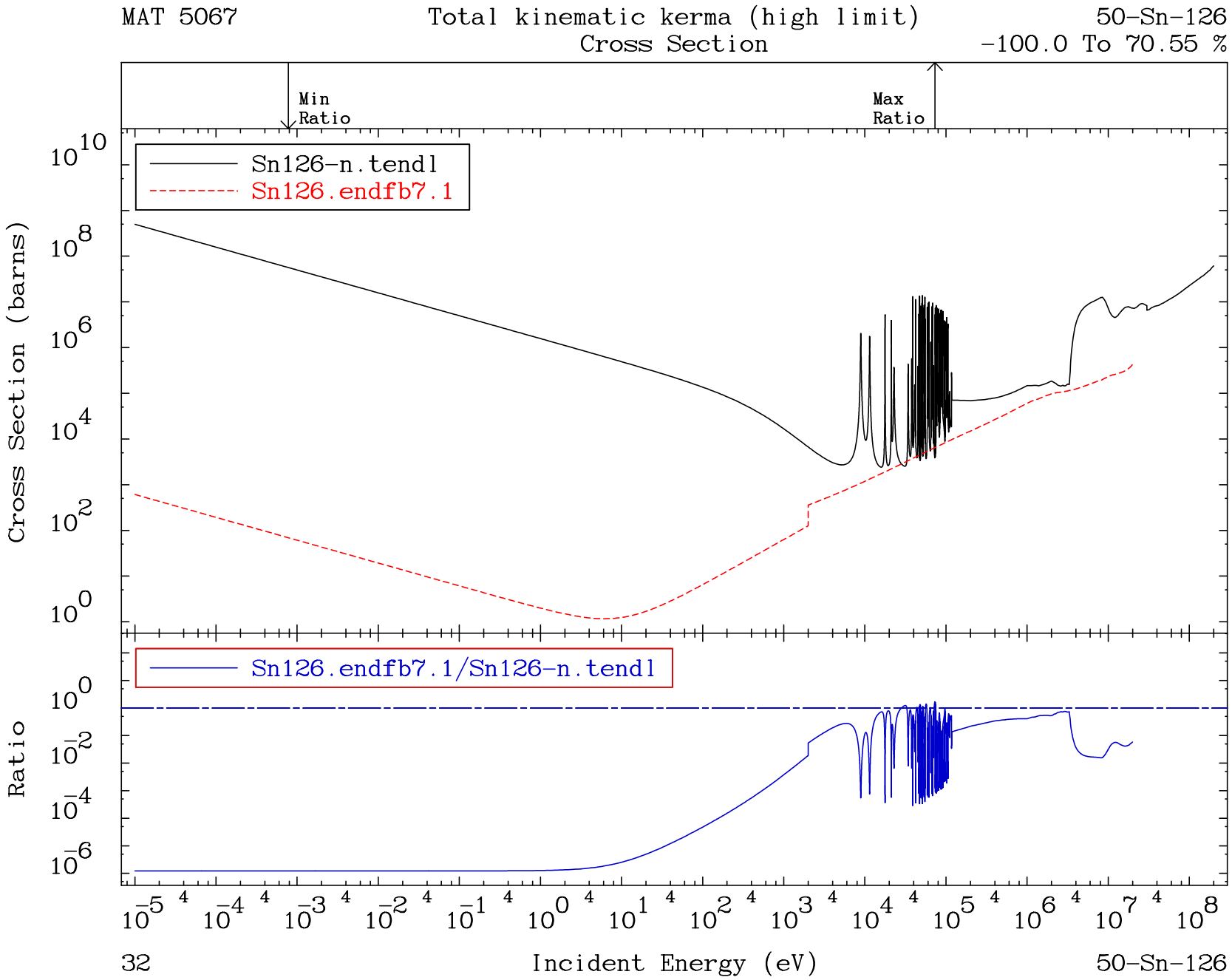

MAT 5067
Kerma non-elastic (all but mt2)
Cross Section
50-Sn-126
-99.67 To 9999. %
Max Ratio
Min Ratio
Sn126-n.tendl
Sn126.endfb7.1
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
27
50-Sn-126

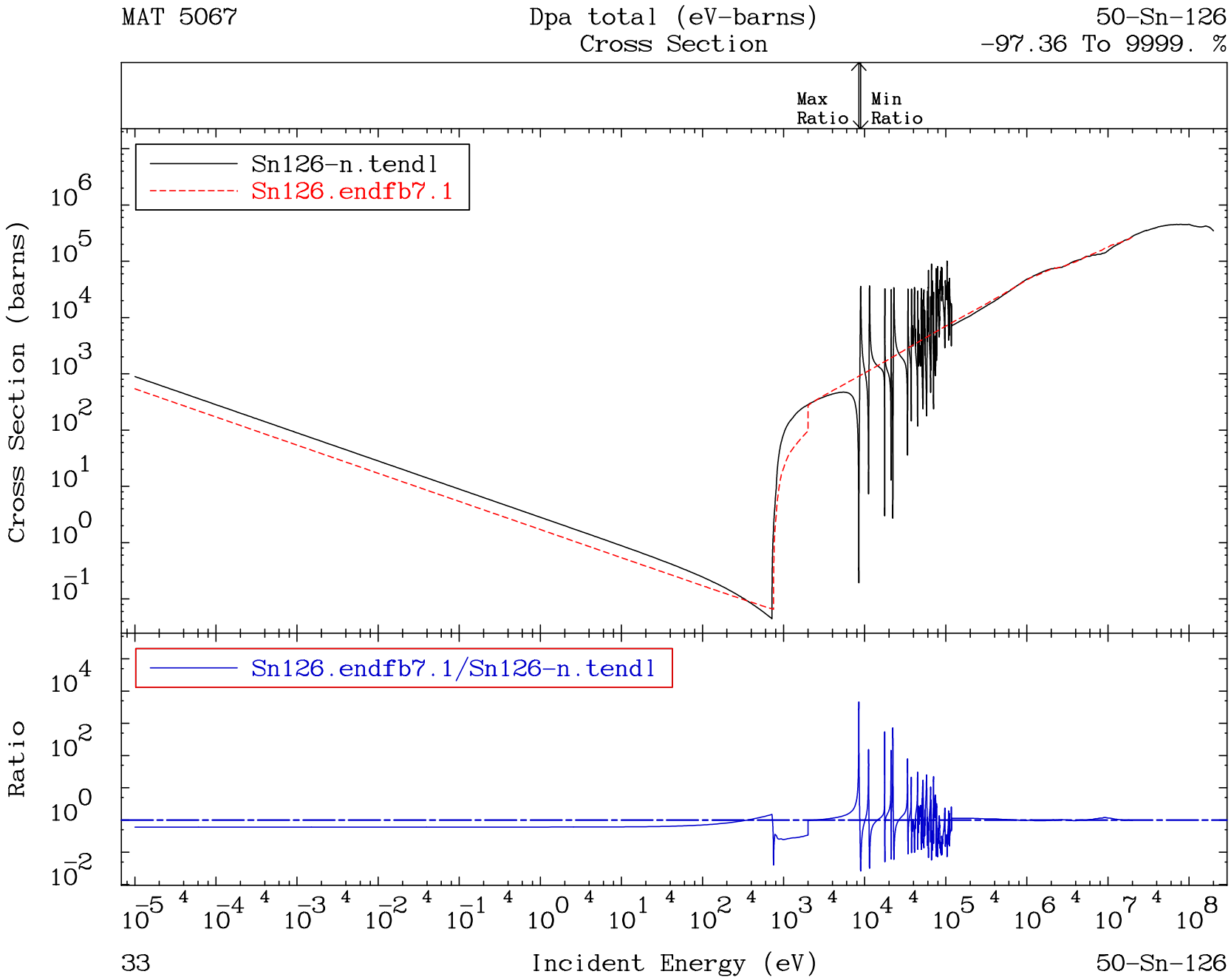

MAT 5067
Kerma inelastic (mt51-91)
Cross Section
50-Sn-126
-26.13 To 80.32 %
Min Ratio
Max Ratio
Sn126-n.tendl Threshold 1.2000 MeV
Sn126.endfb7.1 Threshold 1.1534 MeV
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
28
50-Sn-126

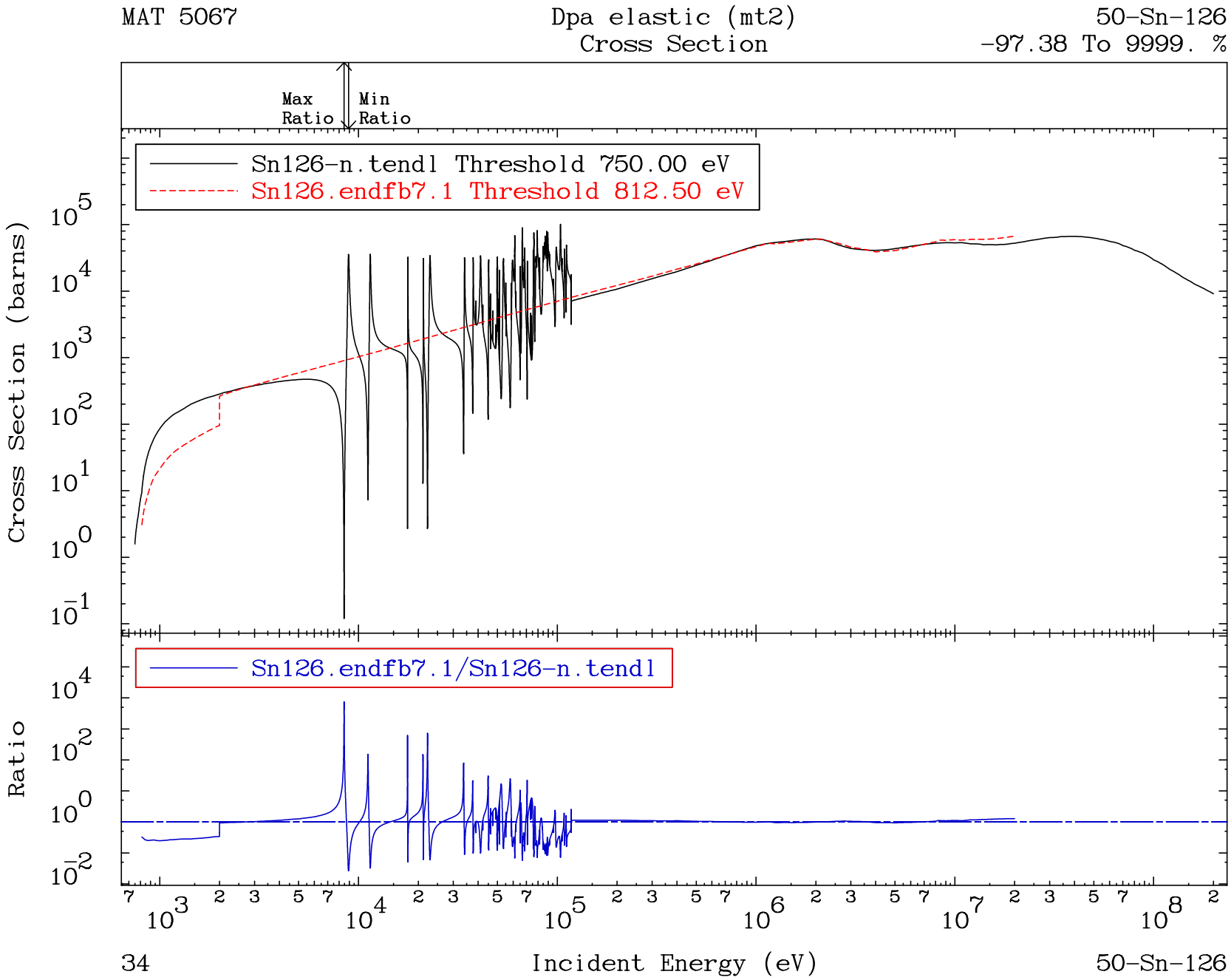

MAT 5067
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
50-Sn-126
-26.13 To 80.32 %
Min Ratio
Max Ratio
Sn126-n.tendl
Sn126.endfb7.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
2.0
1.6
1.2
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
29
Incident Energy (eV)
50-Sn-126

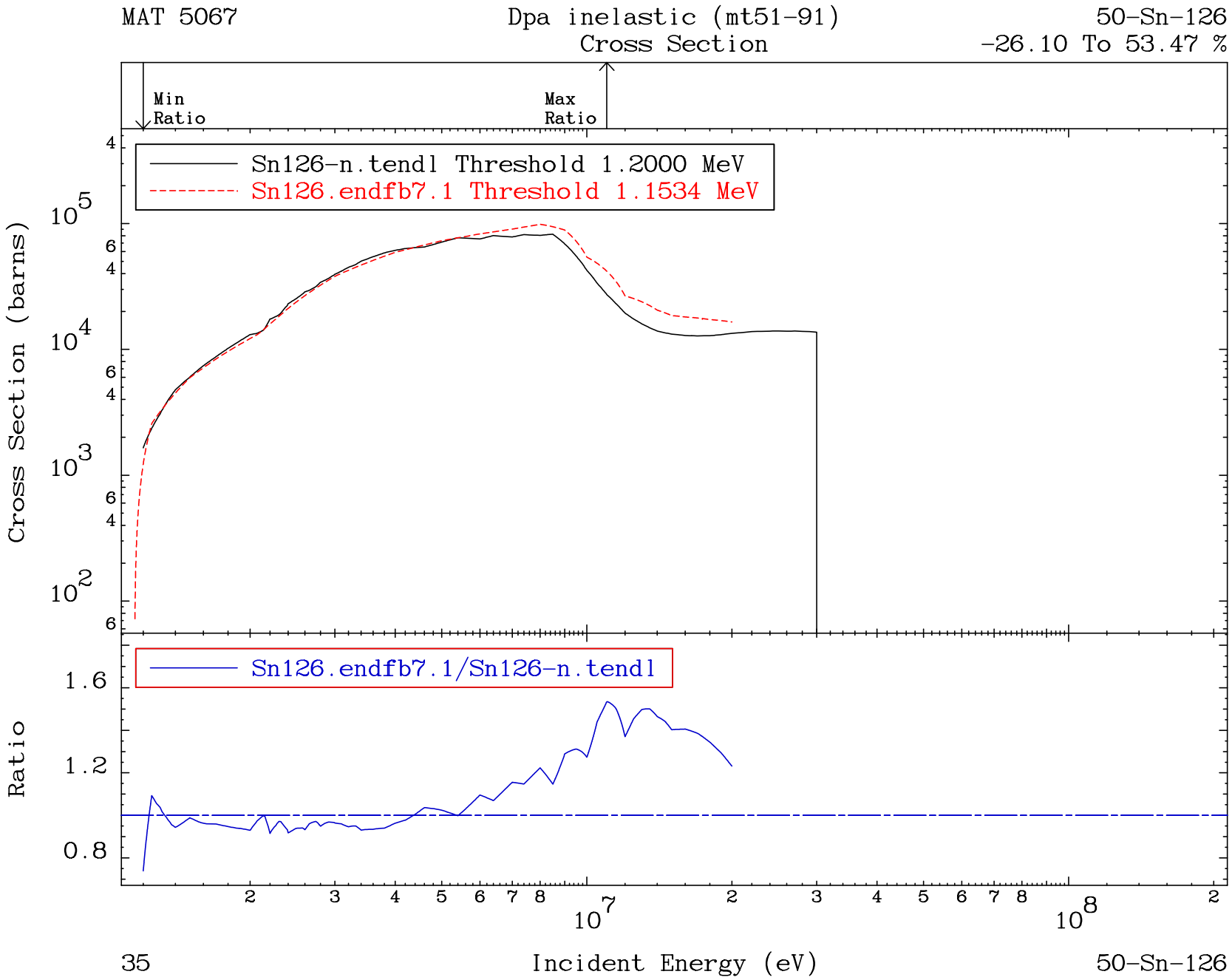

MAT 5067
Kerma capture (mt102)
Cross Section
50-Sn-126
-99.67 To 9999. %
Max Ratio
Min Ratio
Sn126-n.tendl
Sn126.endfb7.1
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
30
50-Sn-126

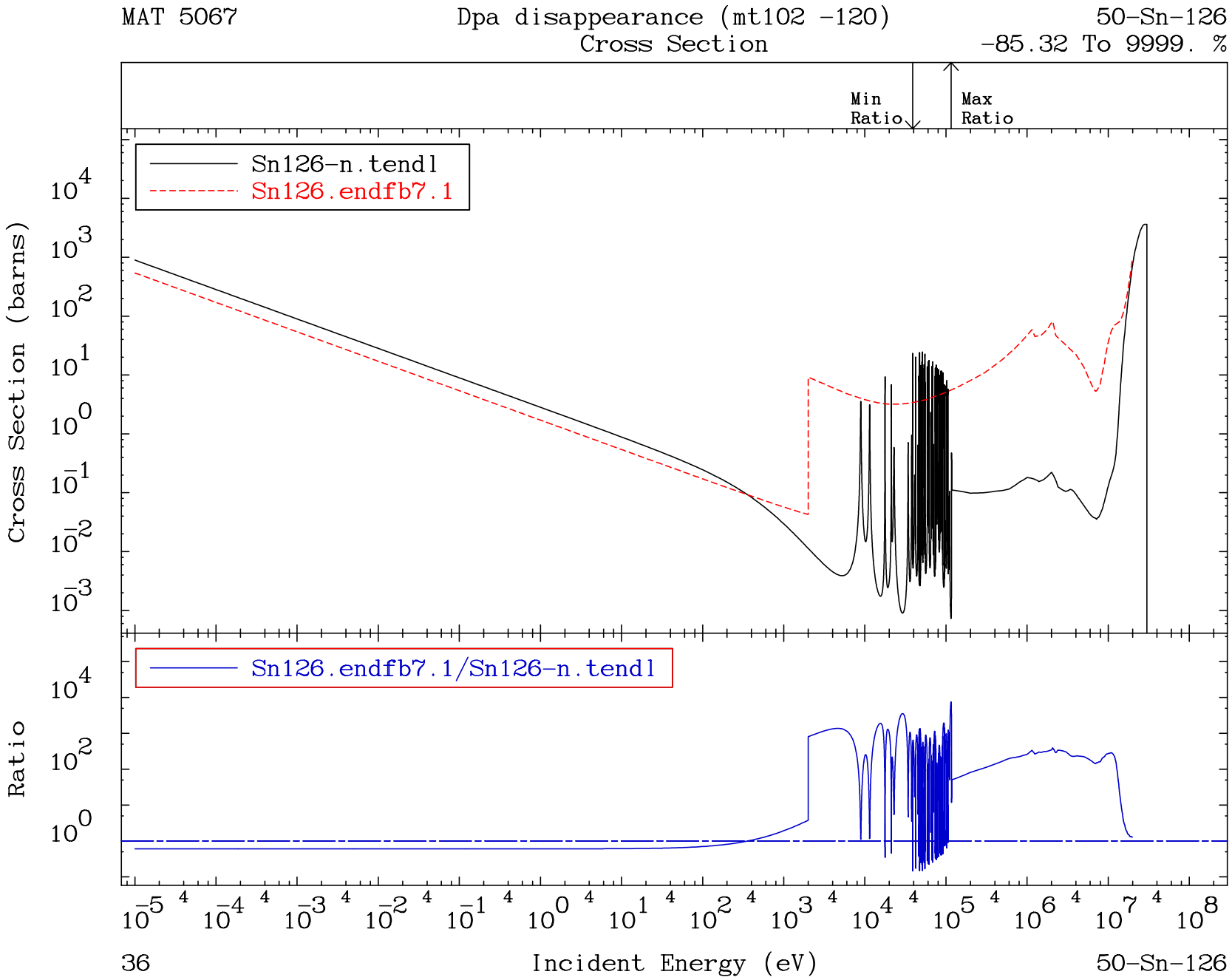

MAT 5067
Total photon (eV-barns)
Cross Section
50-Sn-126
-99.67 To 9999. %
Max Ratio
Min Ratio
Sn126-n.tendl
Sn126.endfb7.1
Cross Section (Mega-barns)
500
400
300
200
100
0
Sn126.endfb7.1/Sn126-n.tendl
Ratio
10^2
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
31
Incident Energy (eV)
50-Sn-126


MAT 5067
Total kinematic kerma (high limit)
Cross Section
50-Sn-126
-100.0 To 70.55 %
Min Ratio
Max Ratio
Sn126-n.tendl
Sn126.endfb7.1
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
32
50-Sn-126


MAT 5067
Dpa total (eV-barns)
Cross Section
50-Sn-126
-97.36 To 9999. %
Max Ratio
Min Ratio
Sn126-n.tendl
Sn126.endfb7.1
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
33
50-Sn-126


MAT 5067
Dpa elastic (mt2)
Cross Section
50-Sn-126
-97.38 To 9999. %
Max Ratio
Min Ratio
Sn126-n.tendl Threshold 750.00 eV
Sn126.endfb7.1 Threshold 812.50 eV
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
34
50-Sn-126


MAT 5067
Dpa inelastic (mt51-91)
Cross Section
50-Sn-126
-26.10 To 53.47 %
Min Ratio
Max Ratio
Sn126-n.tendl Threshold 1.2000 MeV
Sn126.endfb7.1 Threshold 1.1534 MeV
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
35
50-Sn-126


MAT 5067
Dpa disappearance (mt102 -120)
Cross Section
50-Sn-126
-85.32 To 9999. %
Min Ratio
Max Ratio
Sn126-n.tendl
Sn126.endfb7.1
Cross Section (barns)
Sn126.endfb7.1/Sn126-n.tendl
Ratio
Incident Energy (eV)
36
50-Sn-126