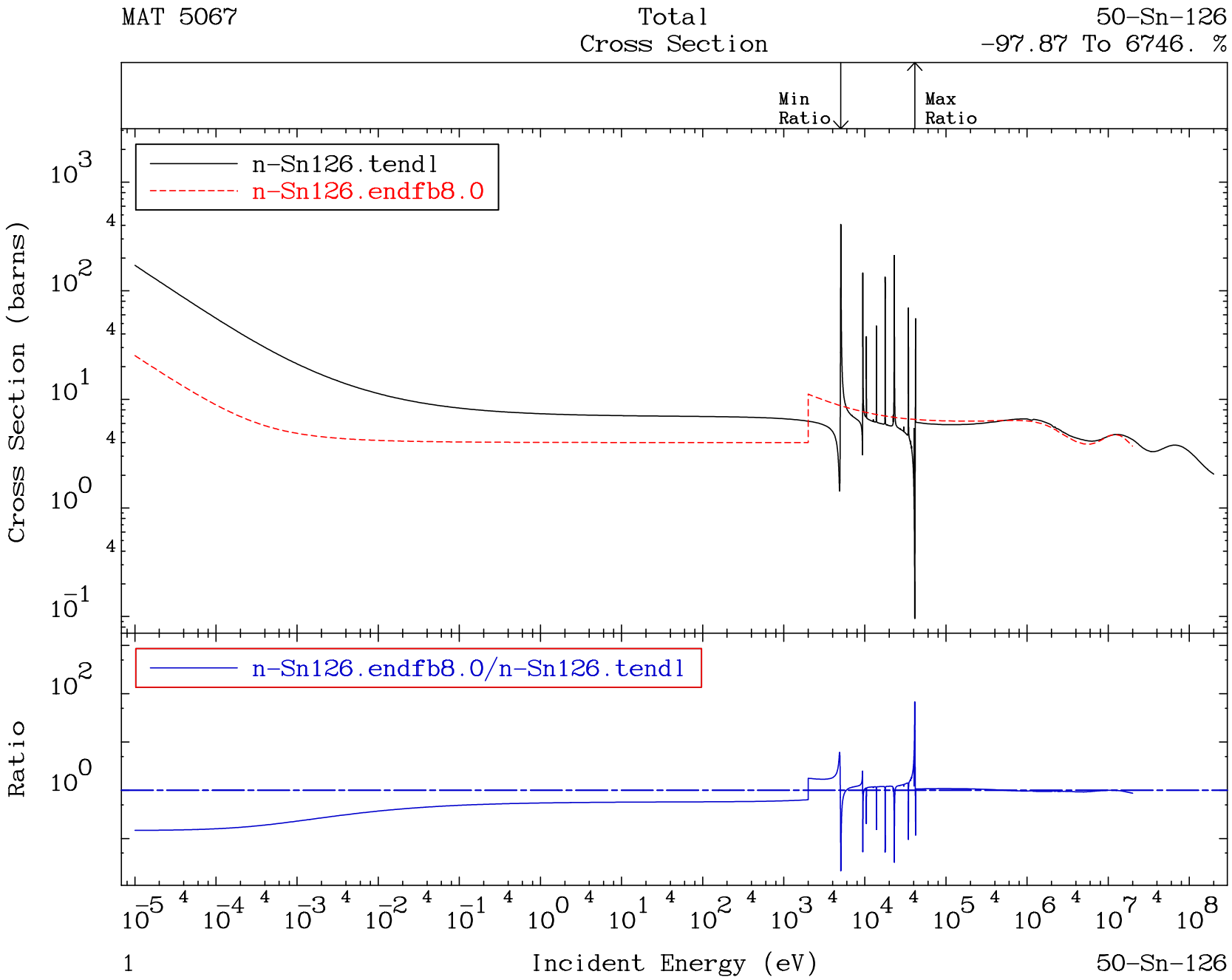
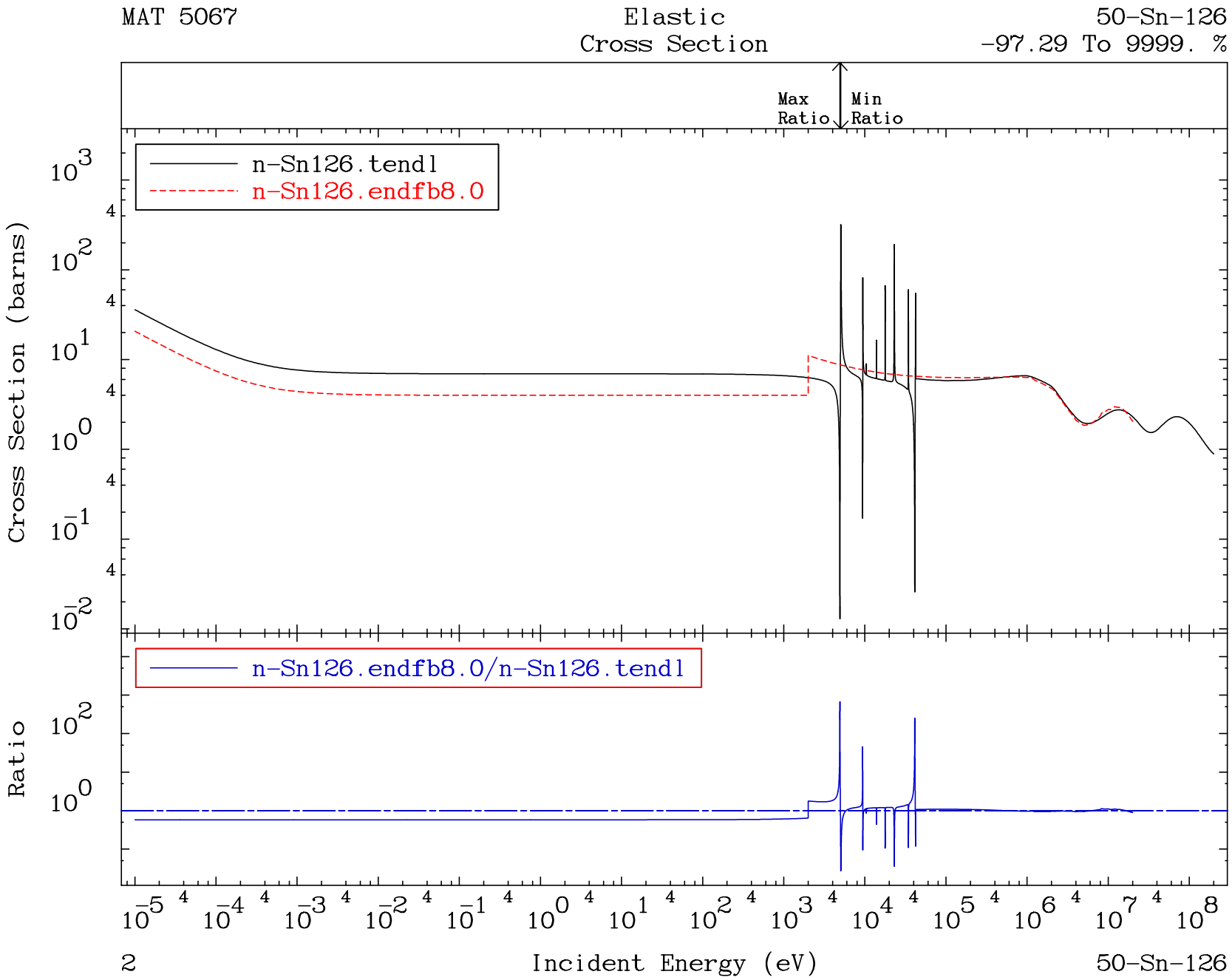
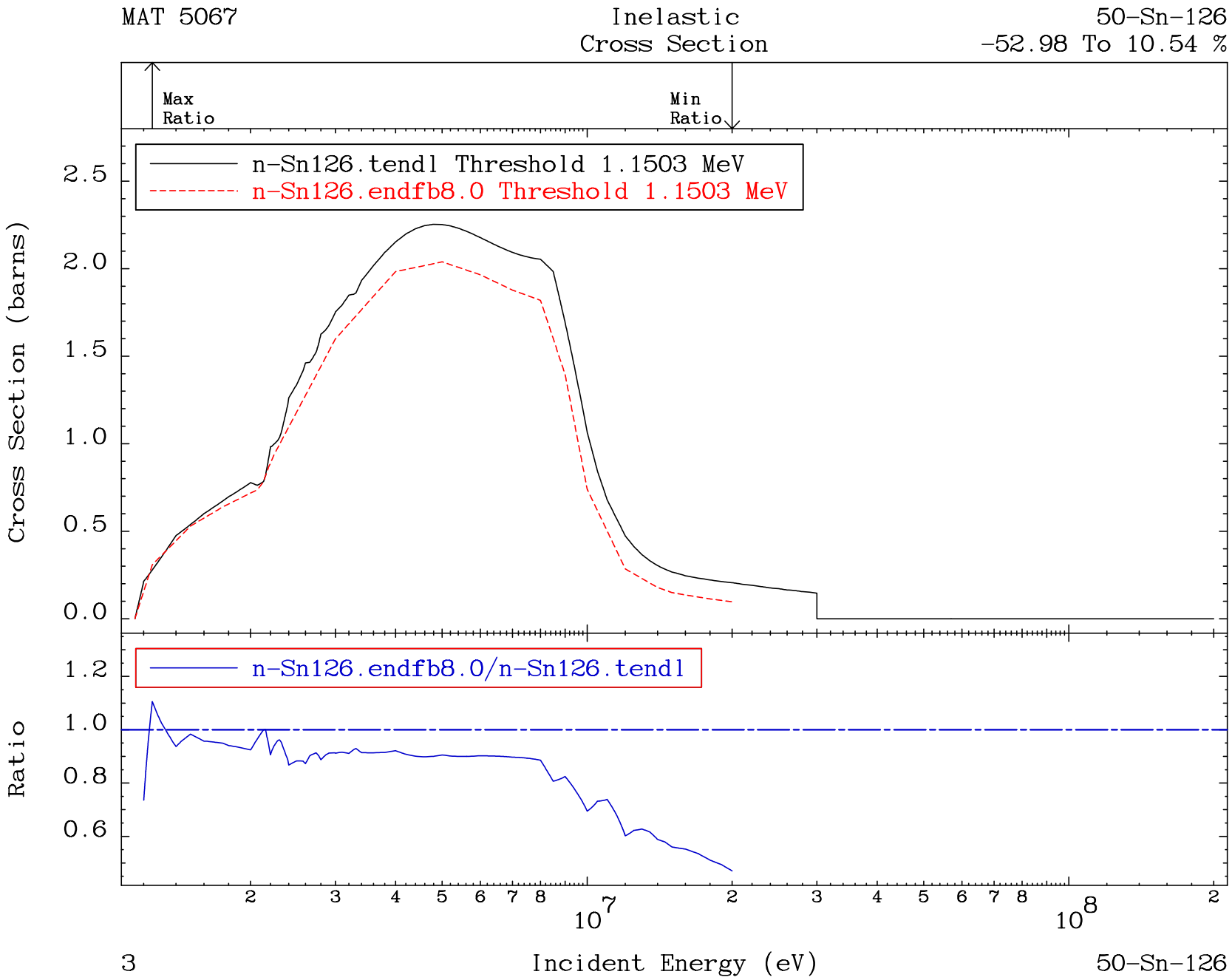
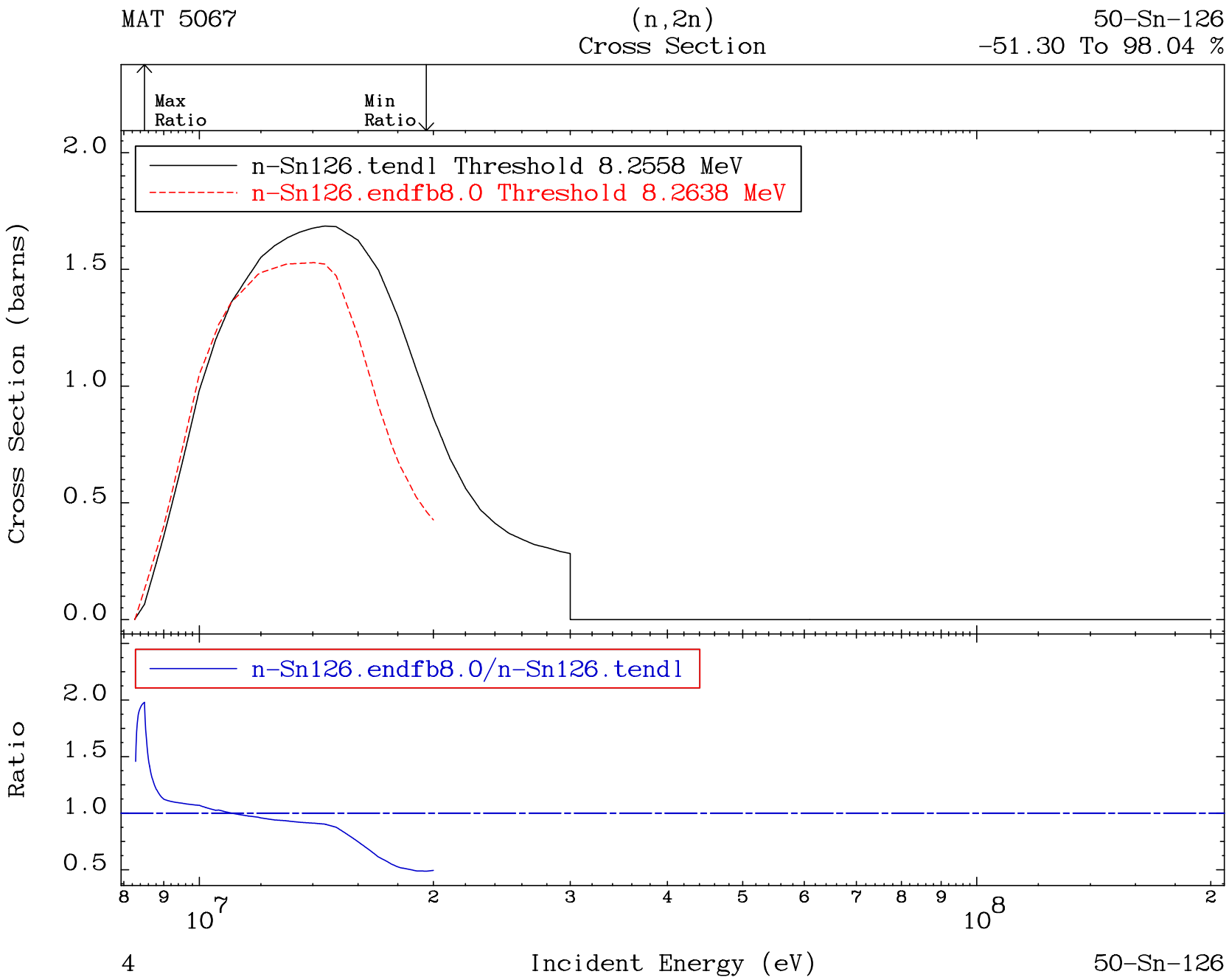
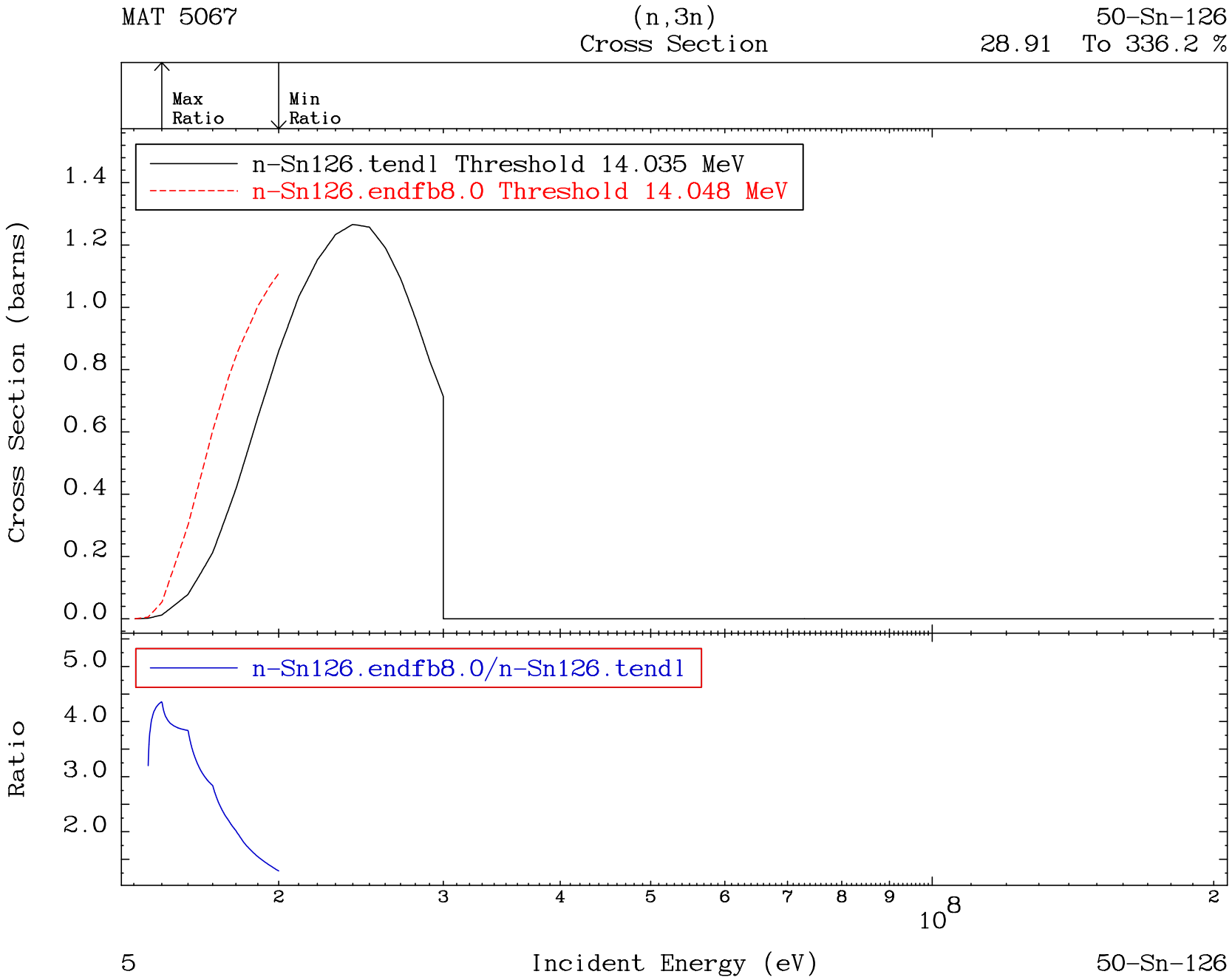
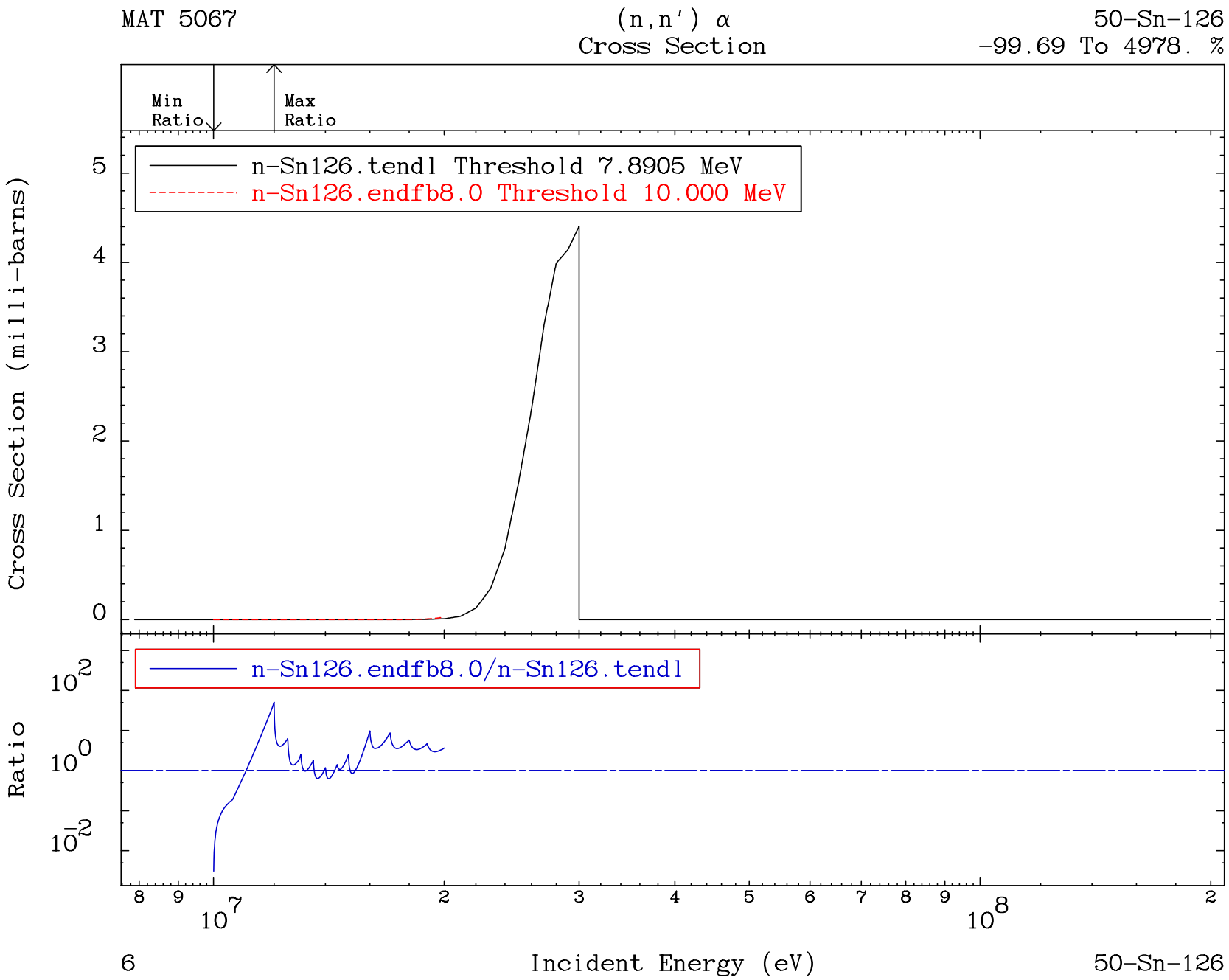

MAT 5067
Total
Cross Section
50-Sn-126
-97.87 To 6746. %
Min Ratio
Max Ratio
n-Sn126.tendl
n-Sn126.endfb8.0
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
1
50-Sn-126

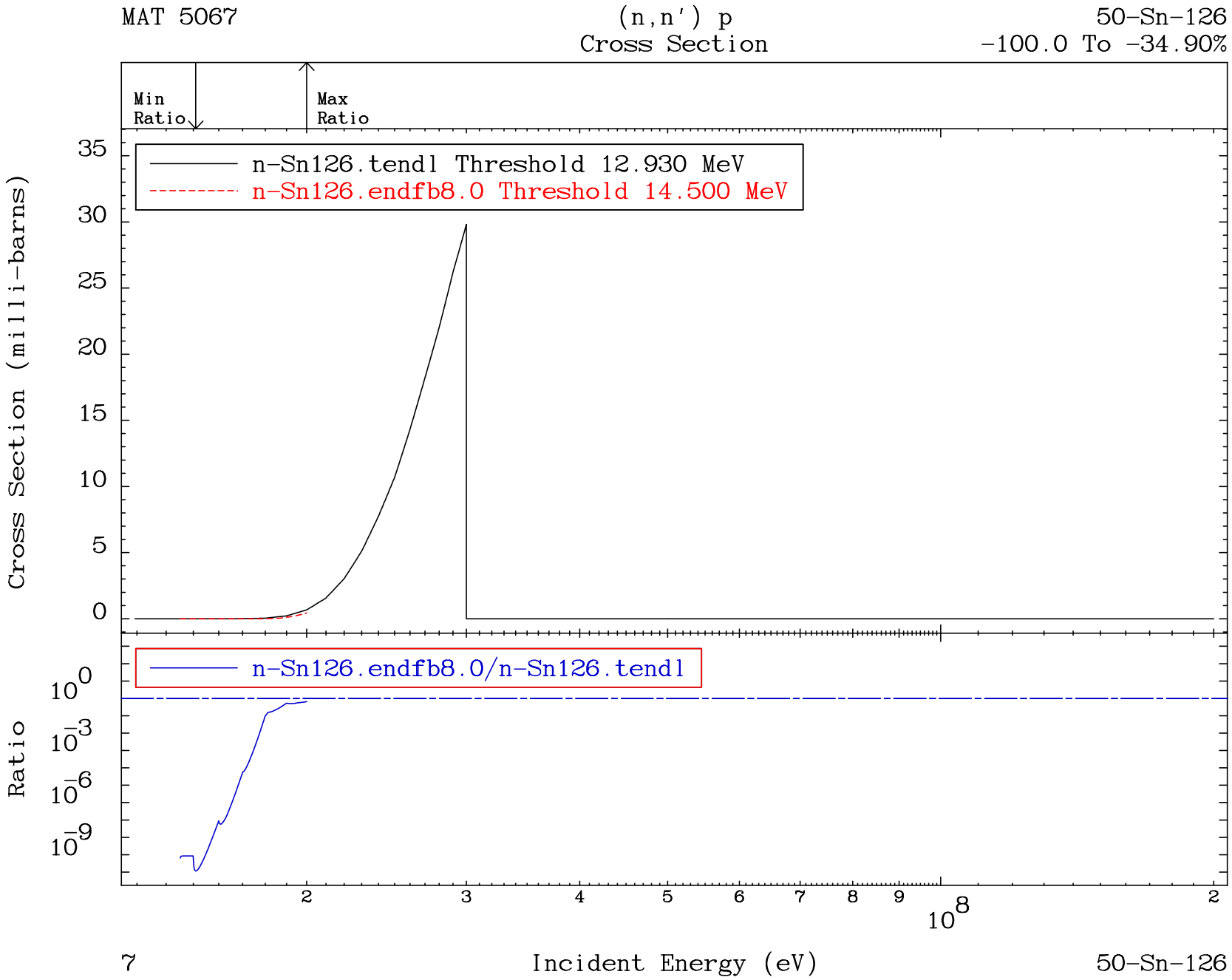

MAT 5067
Elastic
Cross Section
50-Sn-126
-97.29 To 9999. %
Max Ratio
Min Ratio
n-Sn126.tendl
n-Sn126.endfb8.0
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
2
50-Sn-126

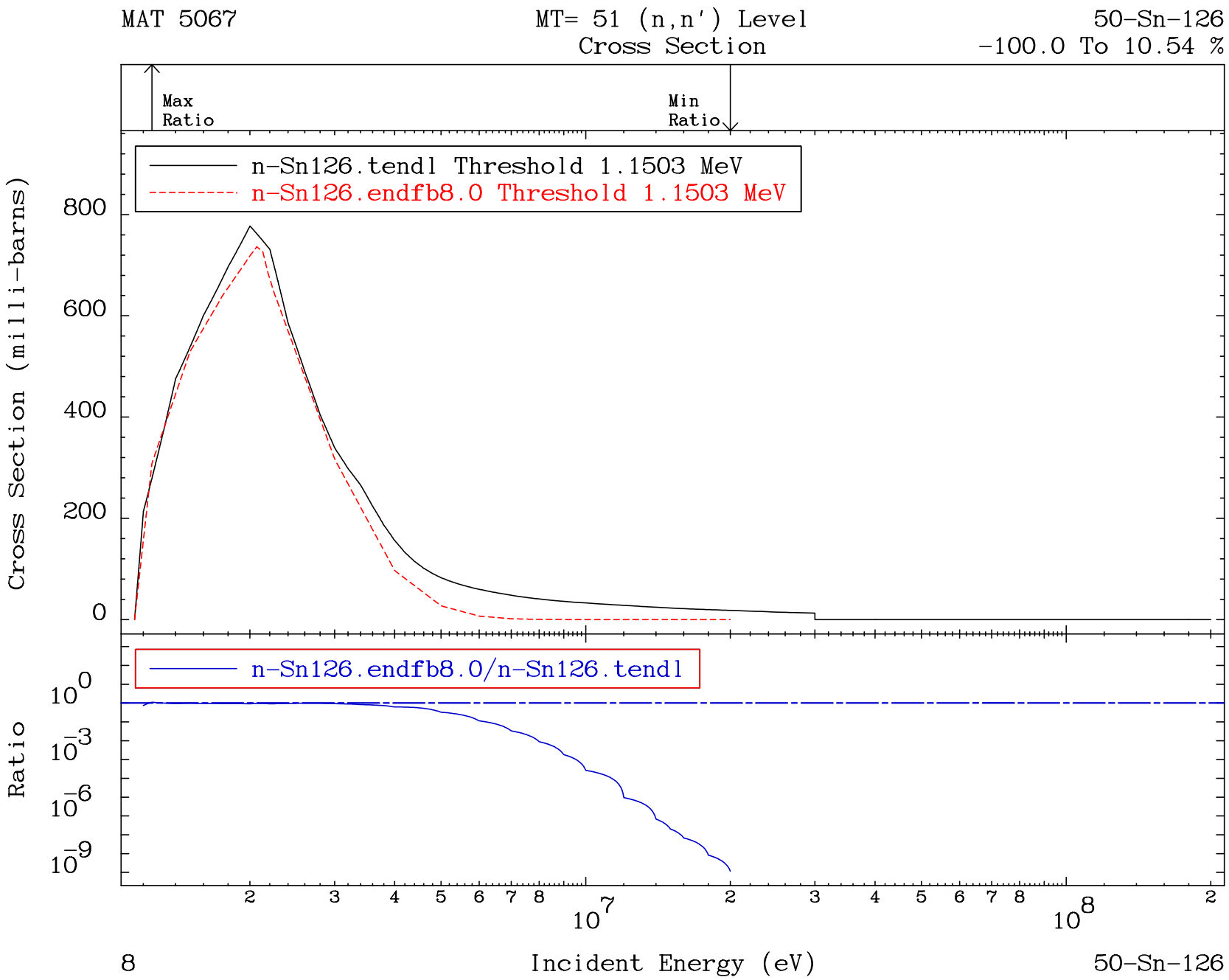

MAT 5067
Inelastic
Cross Section
50-Sn-126
-52.98 To 10.54 %
Max
Ratio
Min
Ratio
n-Sn126.tendl Threshold 1.1503 MeV
n-Sn126.endfb8.0 Threshold 1.1503 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
1.2
1.0
0.8
0.6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
50-Sn-126

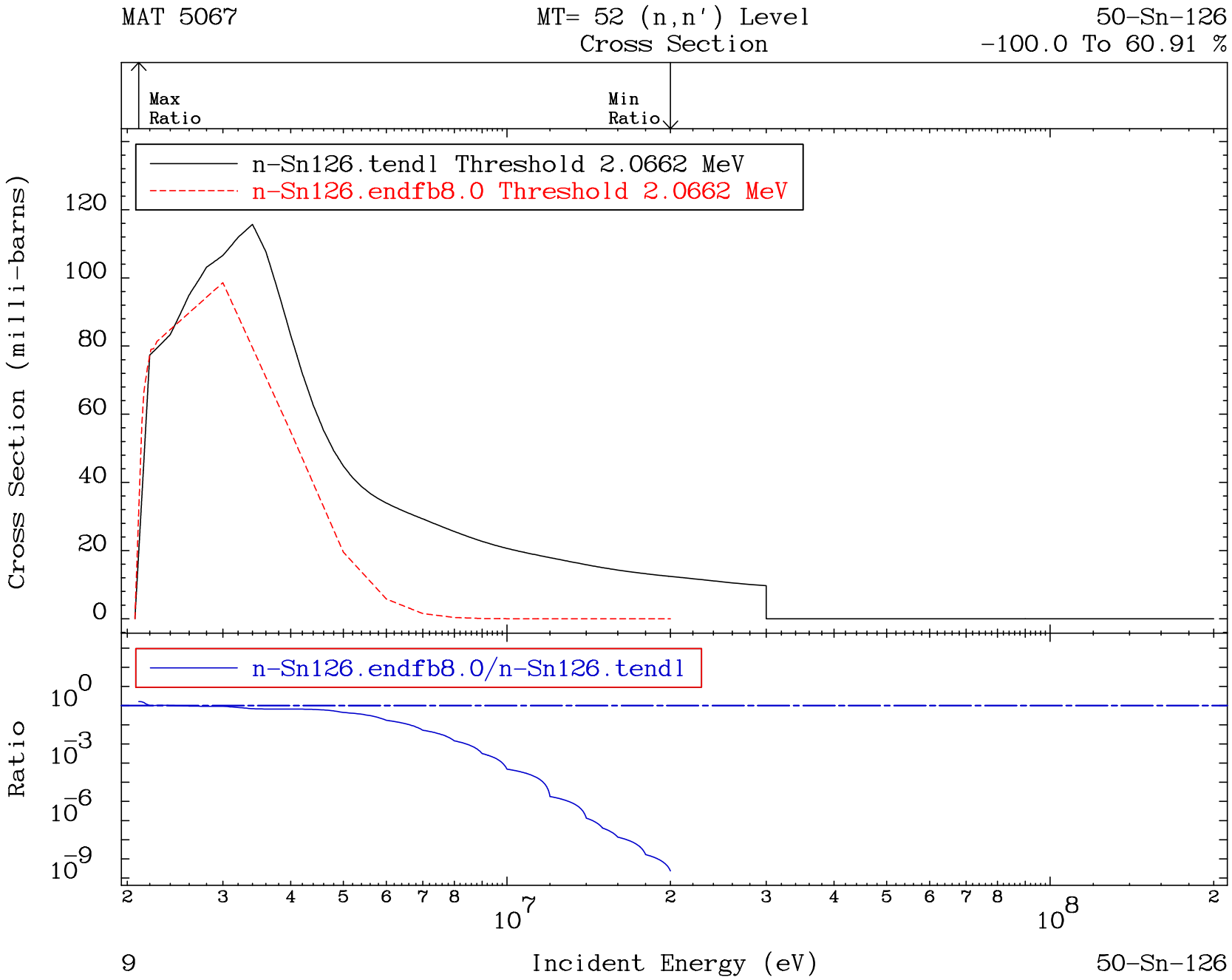

MAT 5067
(n,2n)
Cross Section
50-Sn-126
-51.30 To 98.04 %
Max Ratio
Min Ratio
n-Sn126.tendl Threshold 8.2558 MeV
n-Sn126.endfb8.0 Threshold 8.2638 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
2.0
1.5
1.0
0.5
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
50-Sn-126

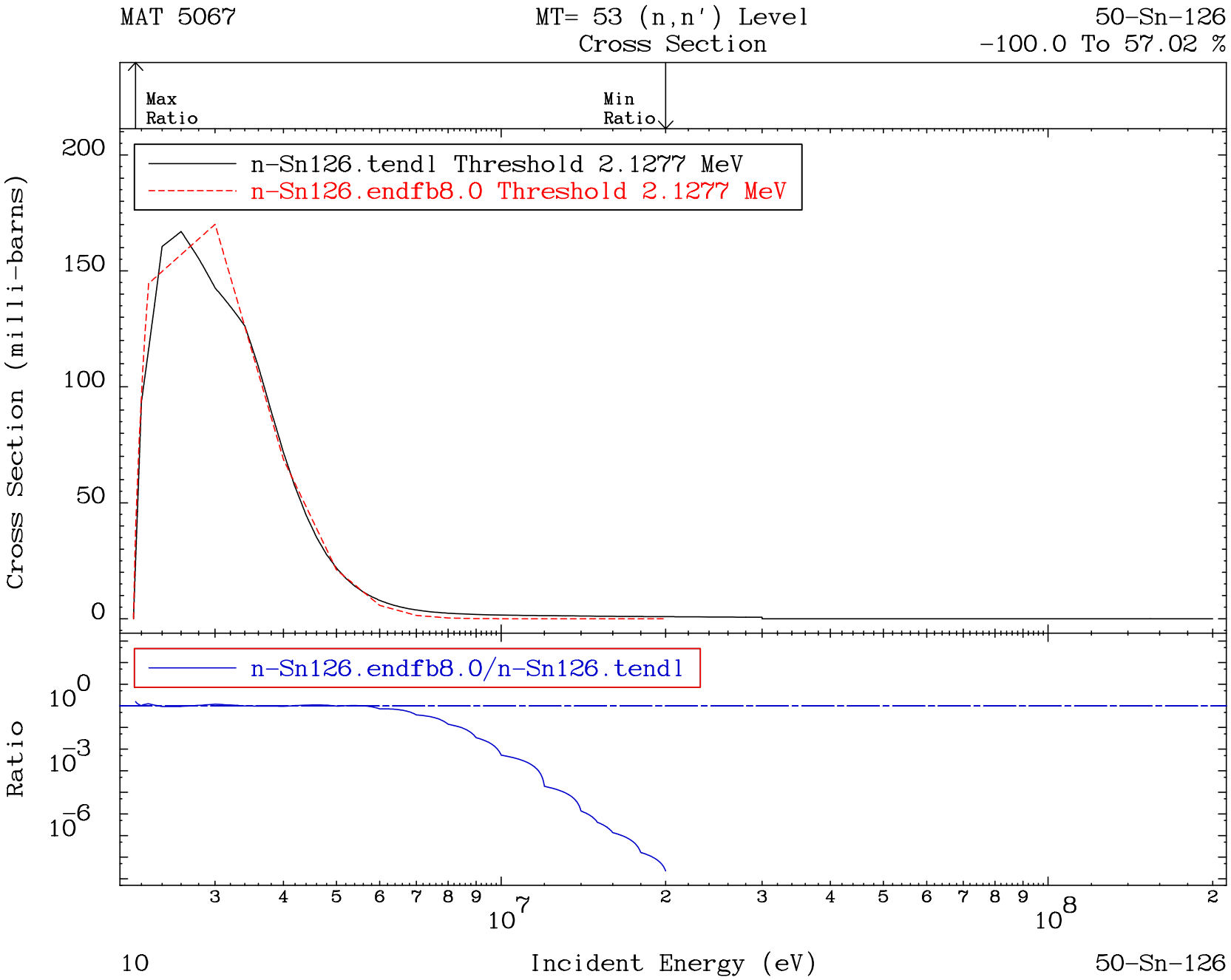

MAT 5067
(n,3n)
Cross Section
50-Sn-126
28.91 To 336.2 %
Max Ratio
Min Ratio
n-Sn126.tendl Threshold 14.035 MeV
n-Sn126.endfb8.0 Threshold 14.048 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
5.0
4.0
3.0
2.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
50-Sn-126

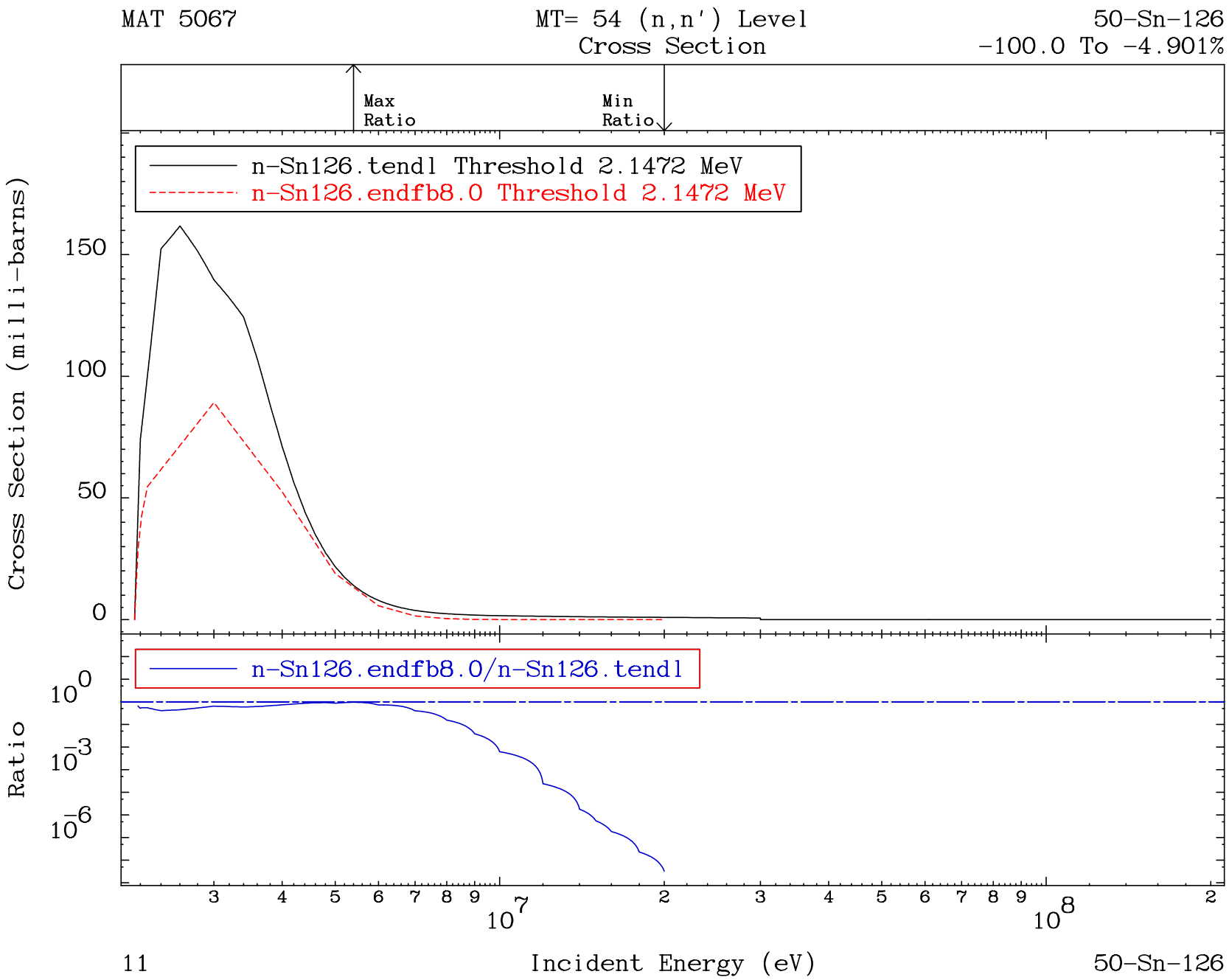

MAT 5067
(n,n') α
Cross Section
50-Sn-126
-99.69 To 4978. %
Min Ratio
Max Ratio
n-Sn126.tendl Threshold 7.8905 MeV
n-Sn126.endfb8.0 Threshold 10.000 MeV
Cross Section (milli-barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
6
50-Sn-126

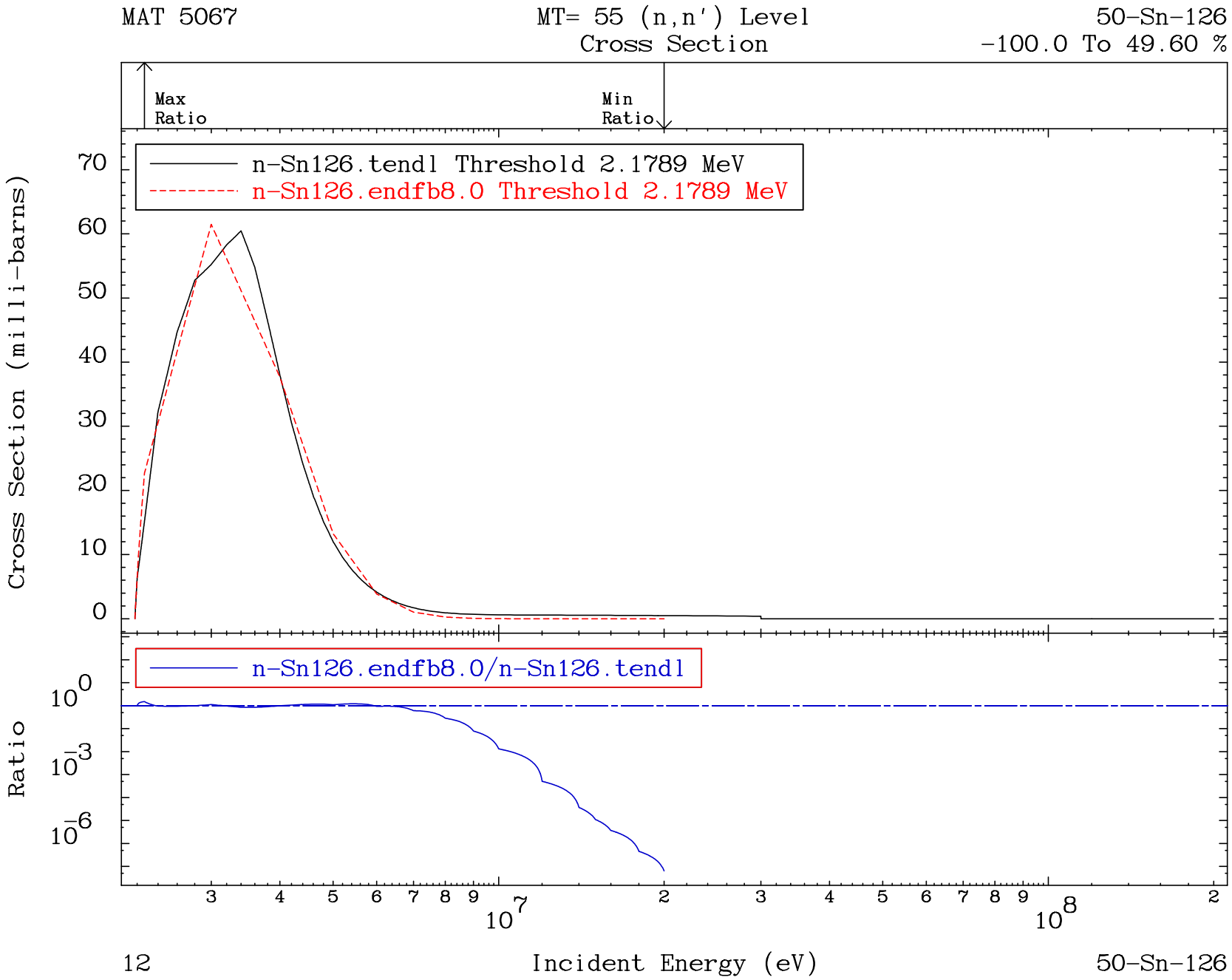

MAT 5067
(n,n') p
Cross Section
50-Sn-126
-100.0 To -34.90%
Min Ratio
Max Ratio
n-Sn126.tendl Threshold 12.930 MeV
n-Sn126.endfb8.0 Threshold 14.500 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
50-Sn-126

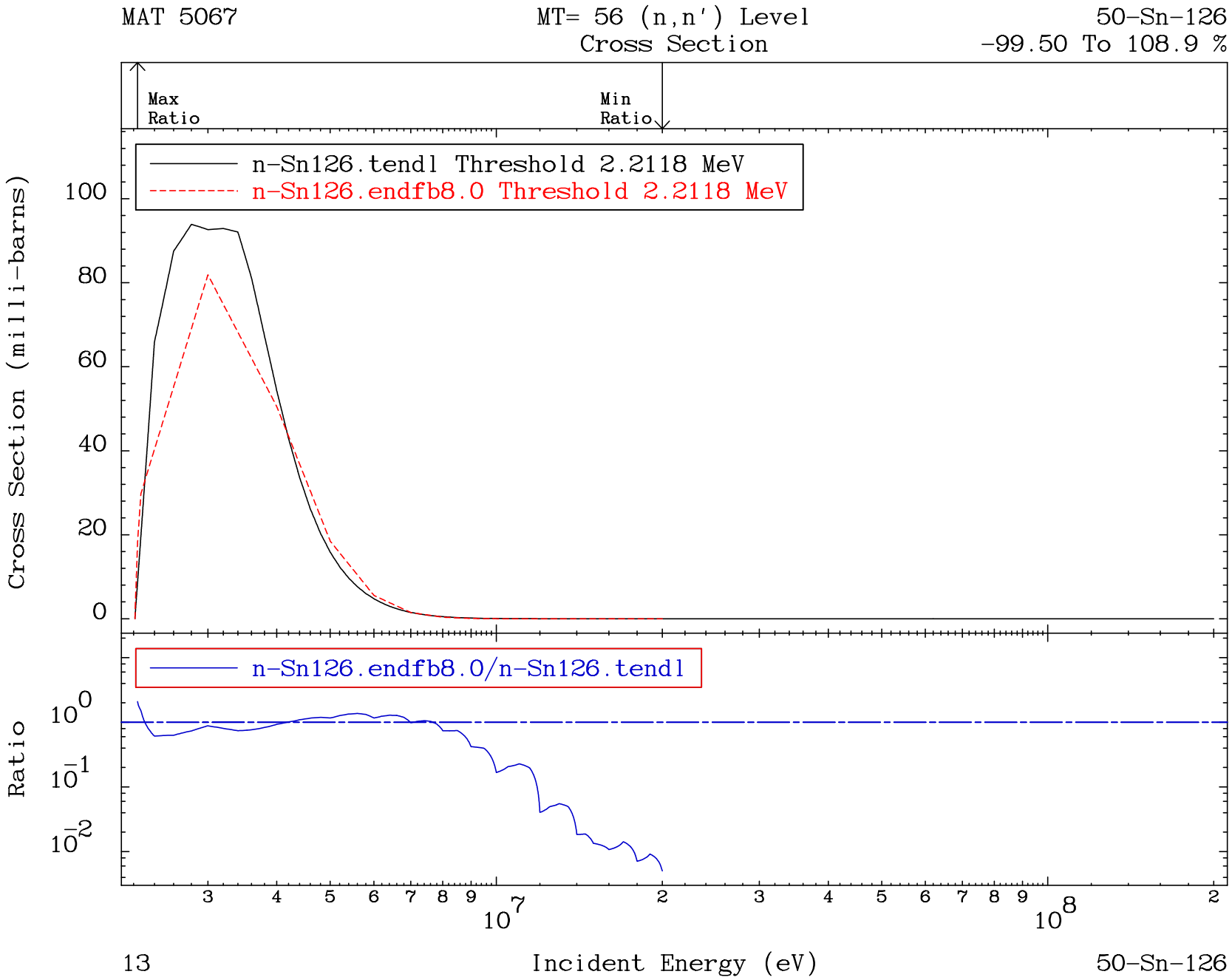

MAT 5067
MT= 51 (n,n') Level
Cross Section
50-Sn-126
-100.0 To 10.54 %
Max Ratio
Min Ratio
n-Sn126.tendl Threshold 1.1503 MeV
n-Sn126.endfb8.0 Threshold 1.1503 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
50-Sn-126

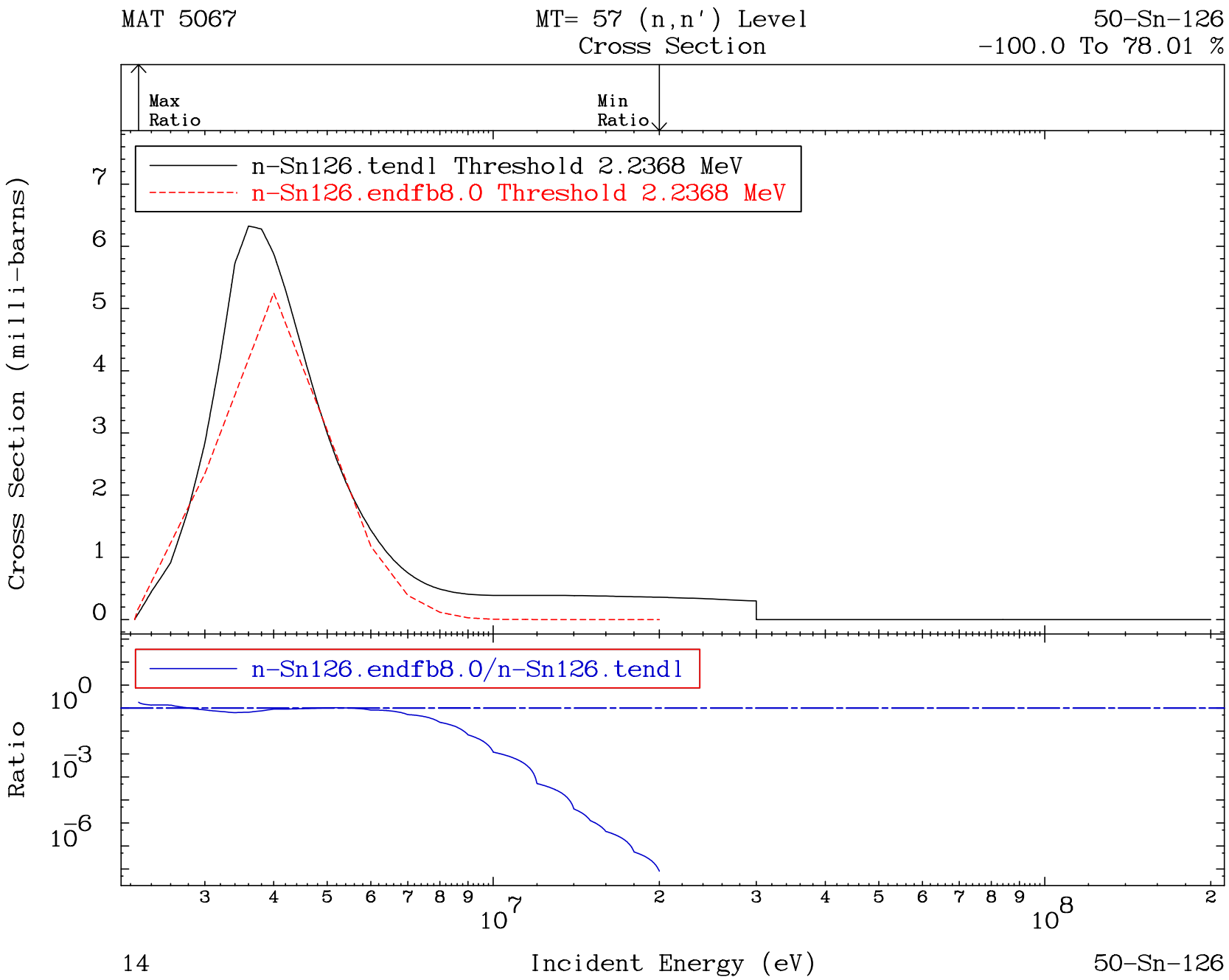

MAT 5067
MT= 52 (n,n') Level
Cross Section
50-Sn-126
-100.0 To 60.91 %
Max
Ratio
Min
Ratio
n-Sn126.tendl Threshold 2.0662 MeV
n-Sn126.endfb8.0 Threshold 2.0662 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
9
Incident Energy (eV)
50-Sn-126

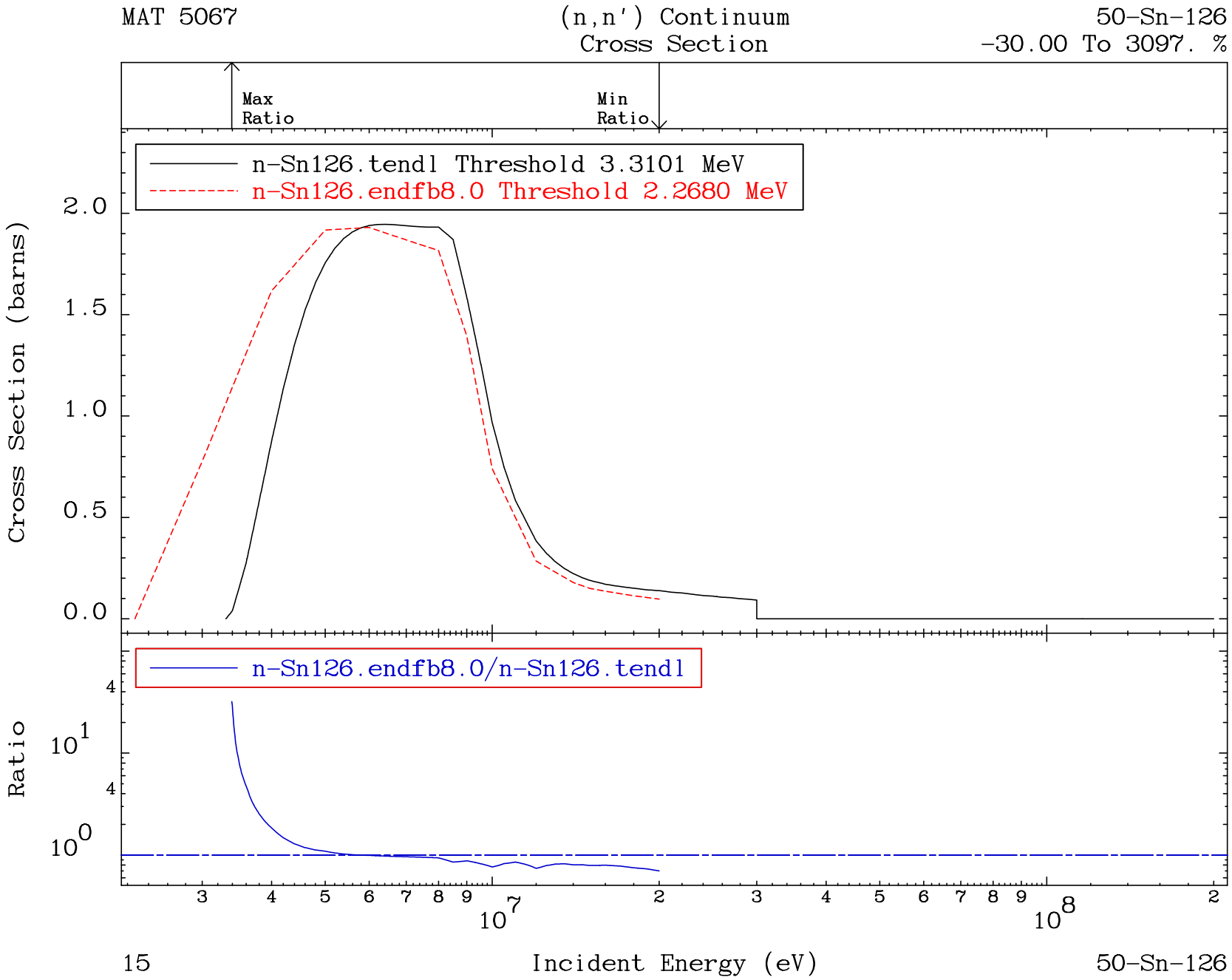

MAT 5067
MT= 53 (n,n') Level
Cross Section
50-Sn-126
-100.0 To 57.02 %
Max
Ratio
Min
Ratio
n-Sn126.tendl Threshold 2.1277 MeV
n-Sn126.endfb8.0 Threshold 2.1277 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^0
10^-3
10^-6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
50-Sn-126

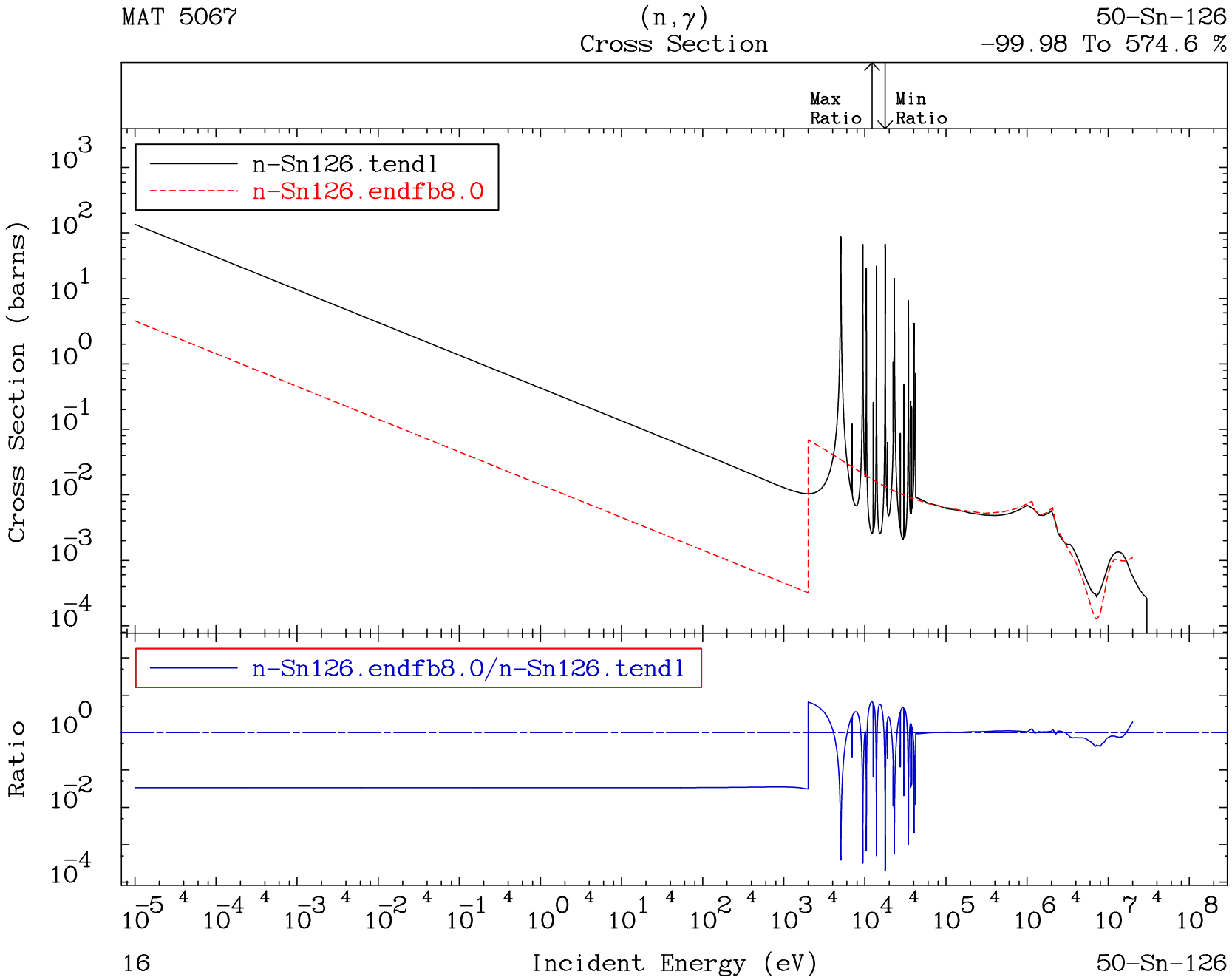

MAT 5067
MT= 54 (n,n') Level
Cross Section
50-Sn-126
-100.0 To -4.901%
Max
Ratio
Min
Ratio
n-Sn126.tendl Threshold 2.1472 MeV
n-Sn126.endfb8.0 Threshold 2.1472 MeV
Cross Section (milli-barns)
150
100
50
0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^0
10^-3
10^-6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
50-Sn-126

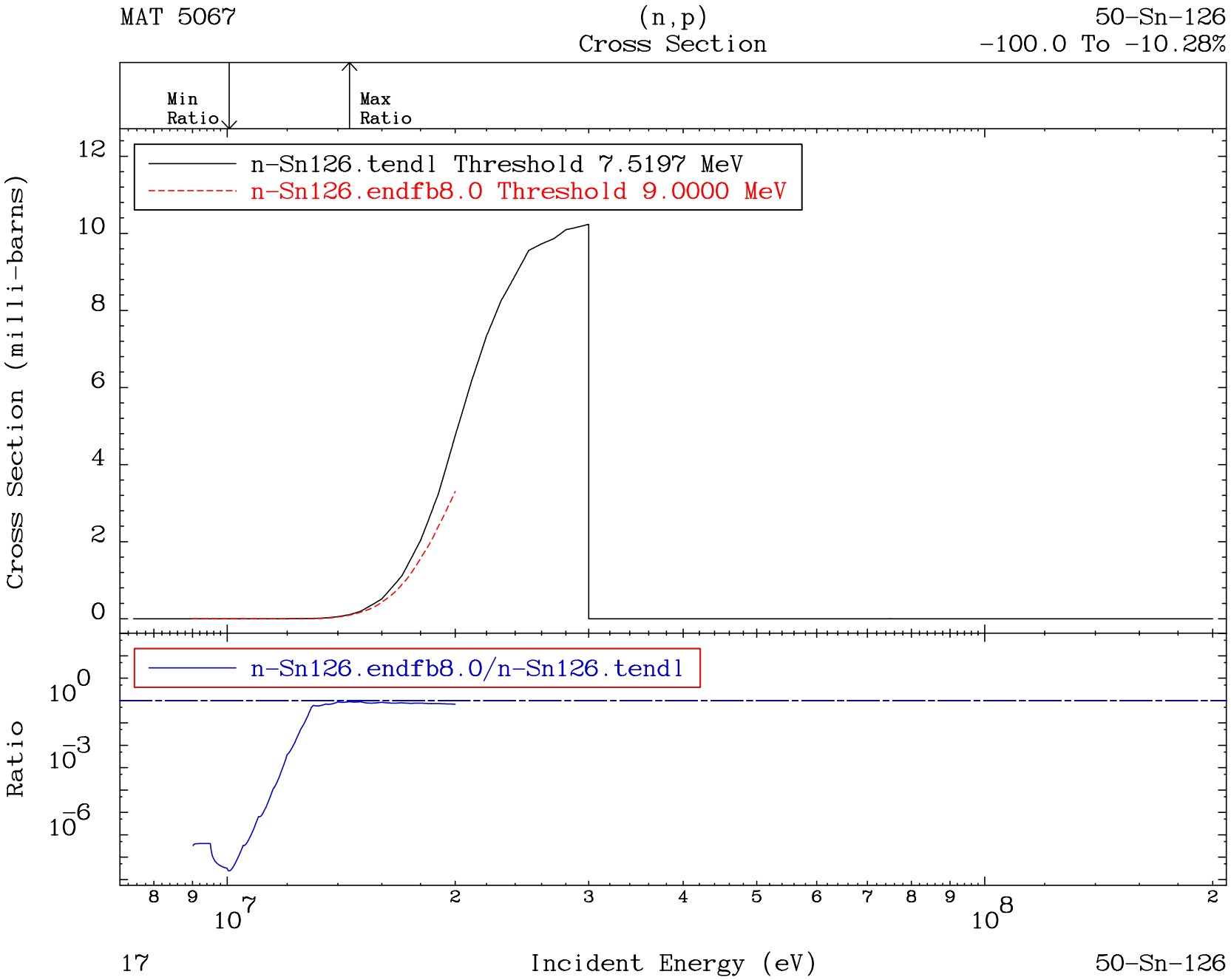

MAT 5067
MT= 55 (n,n') Level
Cross Section
50-Sn-126
-100.0 To 49.60 %
Max
Ratio
Min
Ratio
n-Sn126.tendl Threshold 2.1789 MeV
n-Sn126.endfb8.0 Threshold 2.1789 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^0
10^-3
10^-6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
50-Sn-126

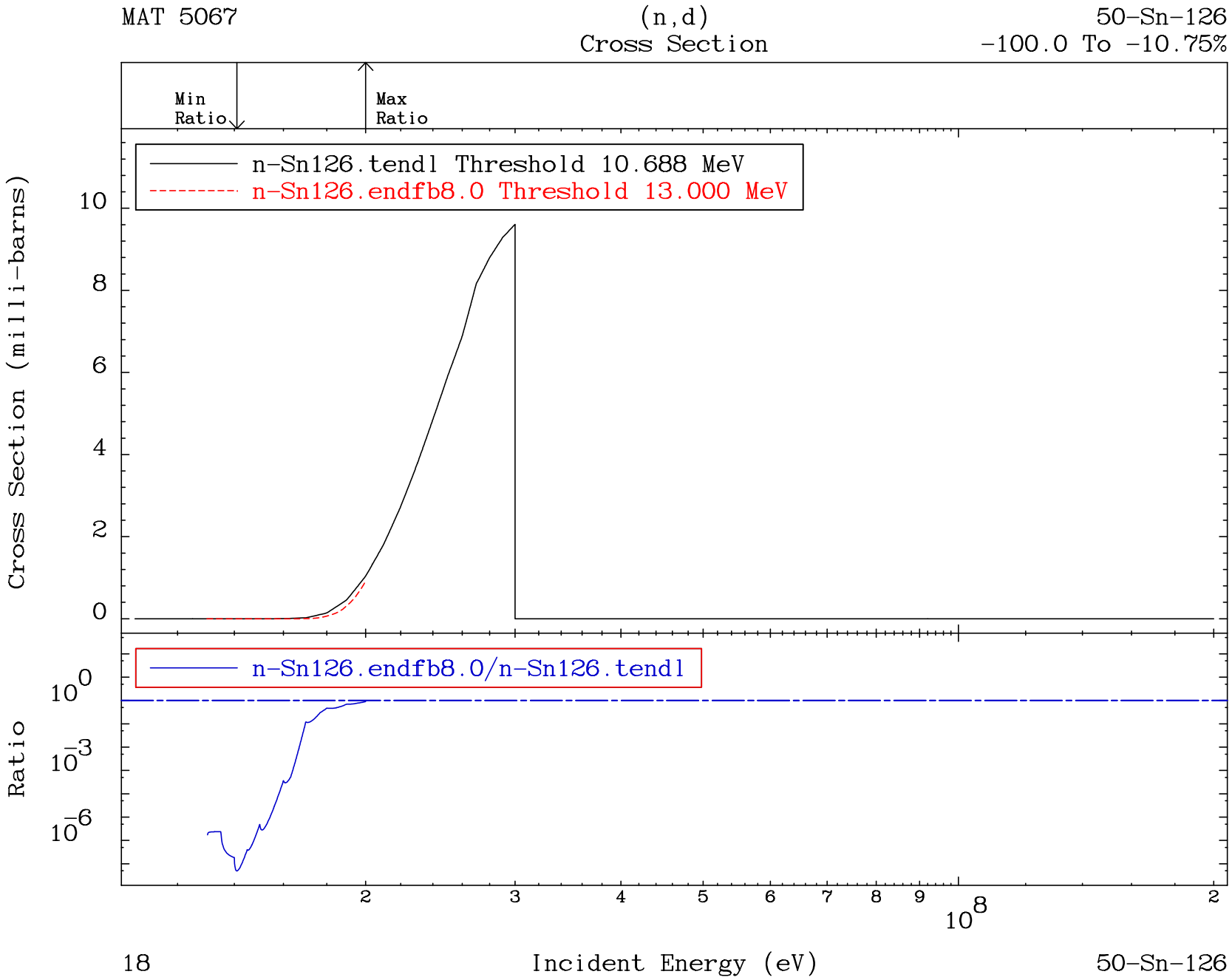

MAT 5067
MT= 56 (n,n') Level
Cross Section
50-Sn-126
-99.50 To 108.9 %
Max
Ratio
Min
Ratio
n-Sn126.tendl Threshold 2.2118 MeV
n-Sn126.endfb8.0 Threshold 2.2118 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
50-Sn-126

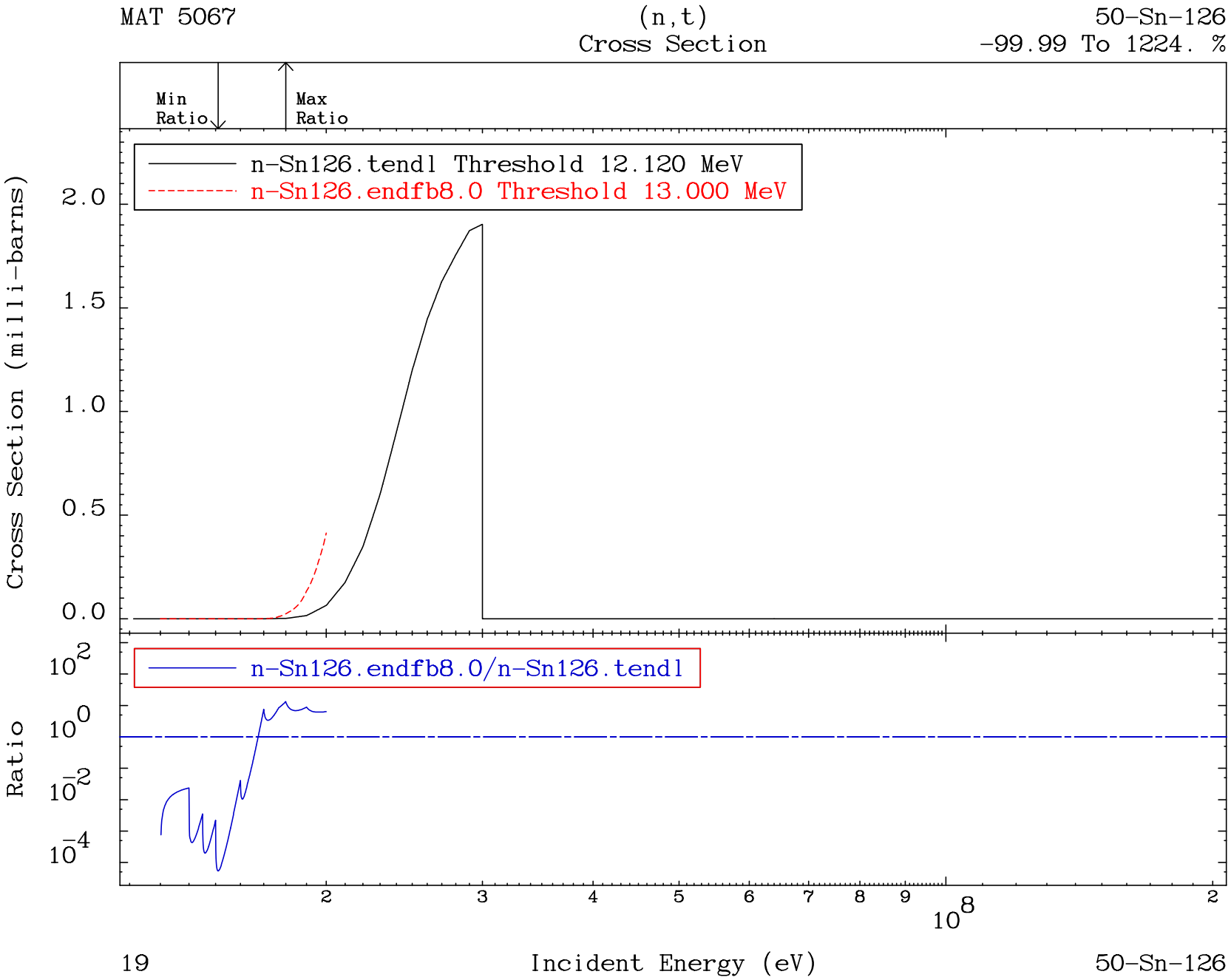

MAT 5067
MT= 57 (n,n') Level
Cross Section
50-Sn-126
-100.0 To 78.01 %
Max
Ratio
Min
Ratio
n-Sn126.tendl Threshold 2.2368 MeV
n-Sn126.endfb8.0 Threshold 2.2368 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^0
10^-3
10^-6
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
50-Sn-126

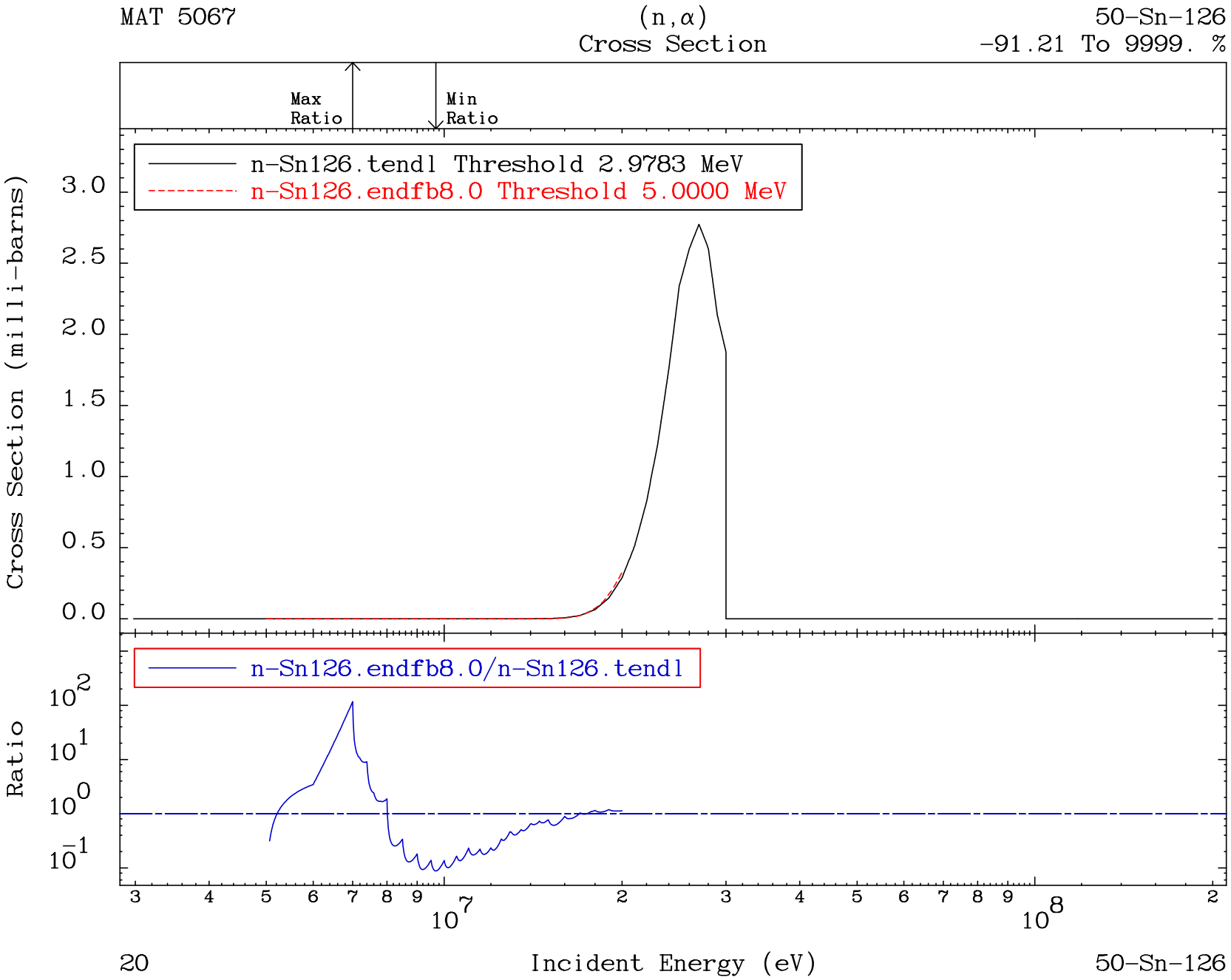

MAT 5067
(n,n') Continuum
Cross Section
50-Sn-126
-30.00 To 3097. %
Max
Ratio
Min
Ratio
n-Sn126.tendl Threshold 3.3101 MeV
n-Sn126.endfb8.0 Threshold 2.2680 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^1
4
10^0
4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
50-Sn-126

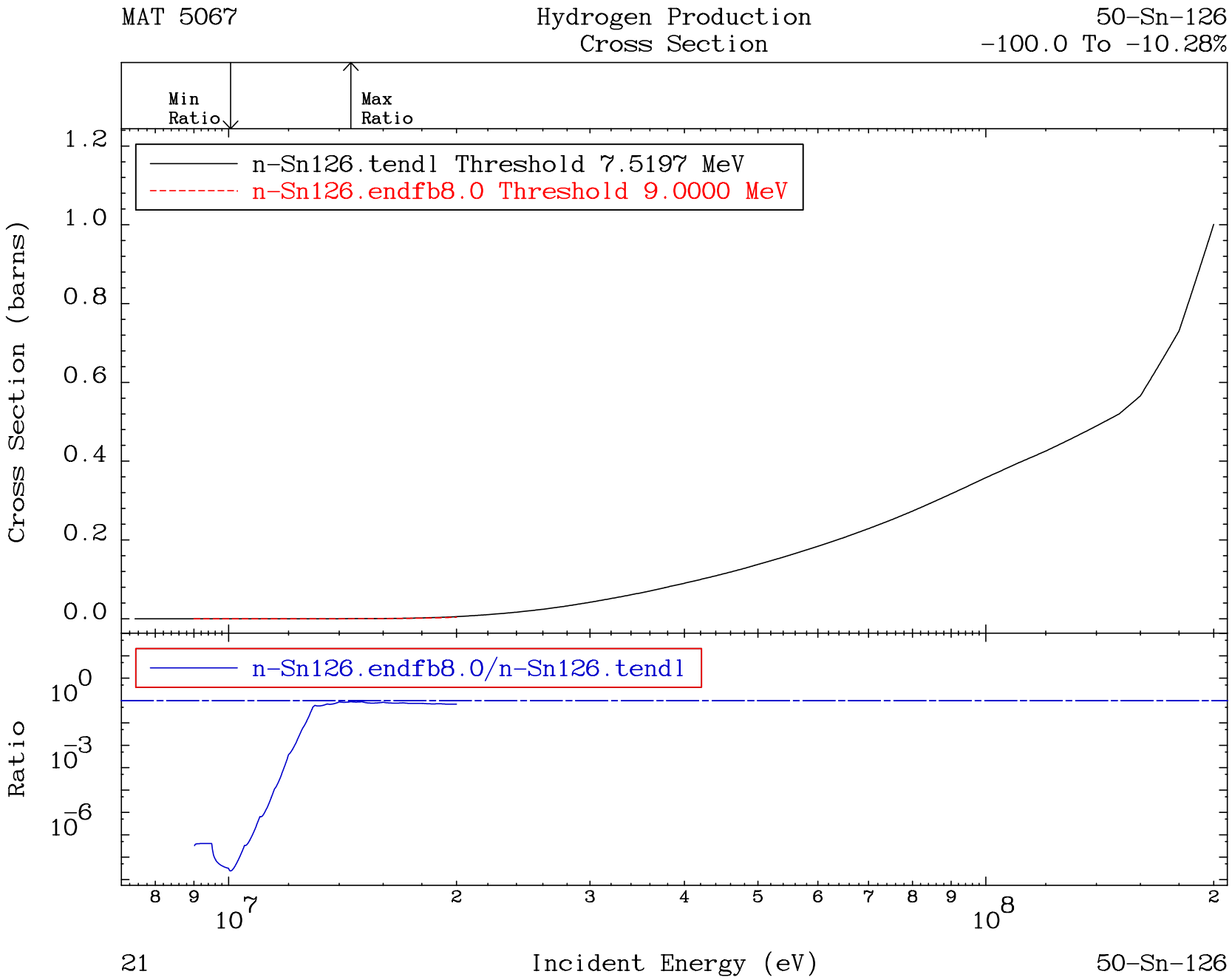

MAT 5067
(n,γ)
Cross Section
50-Sn-126
-99.98 To 574.6 %
Max Ratio
Min Ratio
n-Sn126.tendl
n-Sn126.endfb8.0
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
16
50-Sn-126

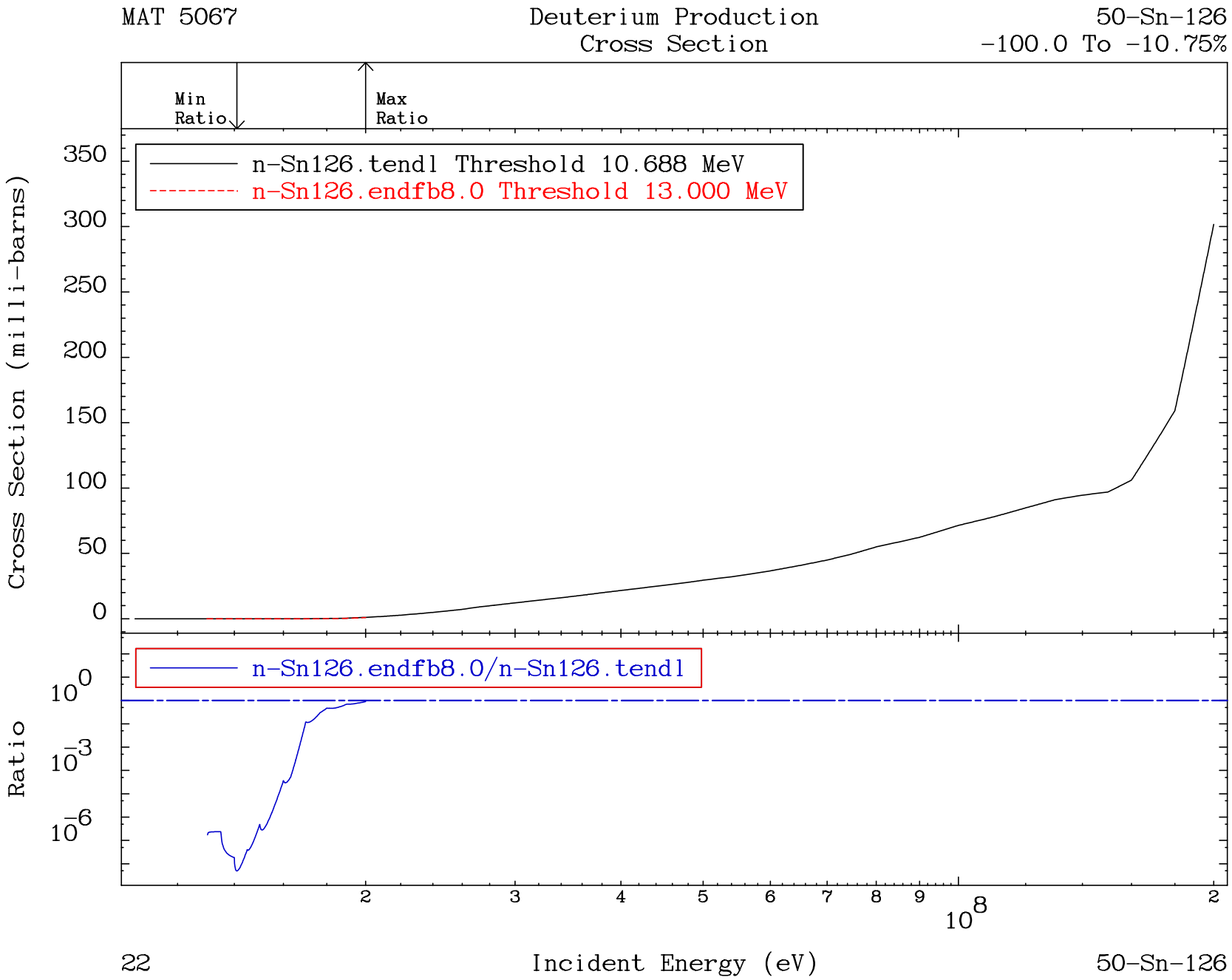

MAT 5067
(n,p)
Cross Section
50-Sn-126
-100.0 To -10.28%
Min Ratio
Max Ratio
n-Sn126.tendl Threshold 7.5197 MeV
n-Sn126.endfb8.0 Threshold 9.0000 MeV
Cross Section (milli-barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
17
50-Sn-126

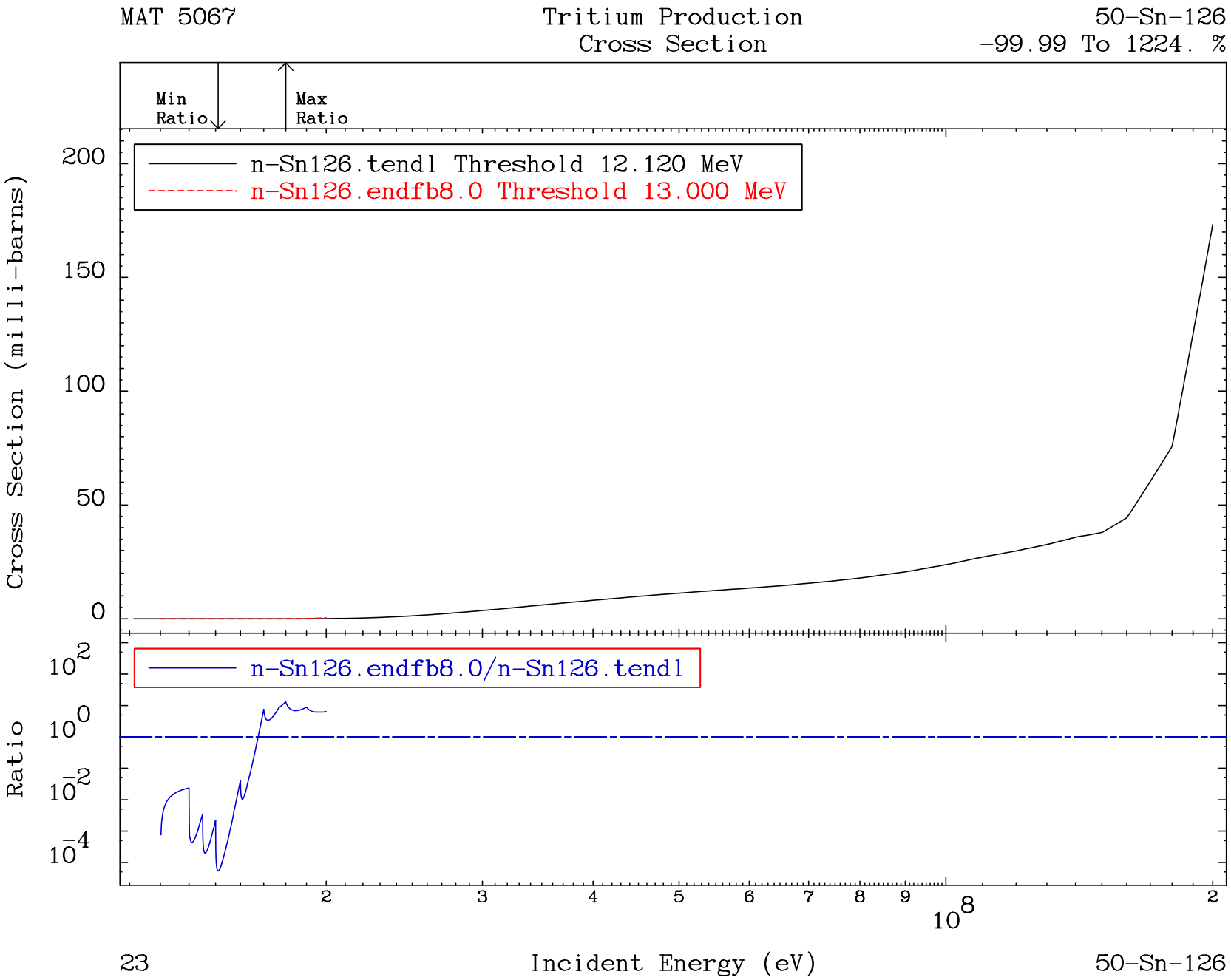

MAT 5067
(n,d)
Cross Section
50-Sn-126
-100.0 To -10.75%
Min Ratio
Max Ratio
n-Sn126.tendl Threshold 10.688 MeV
n-Sn126.endfb8.0 Threshold 13.000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
50-Sn-126

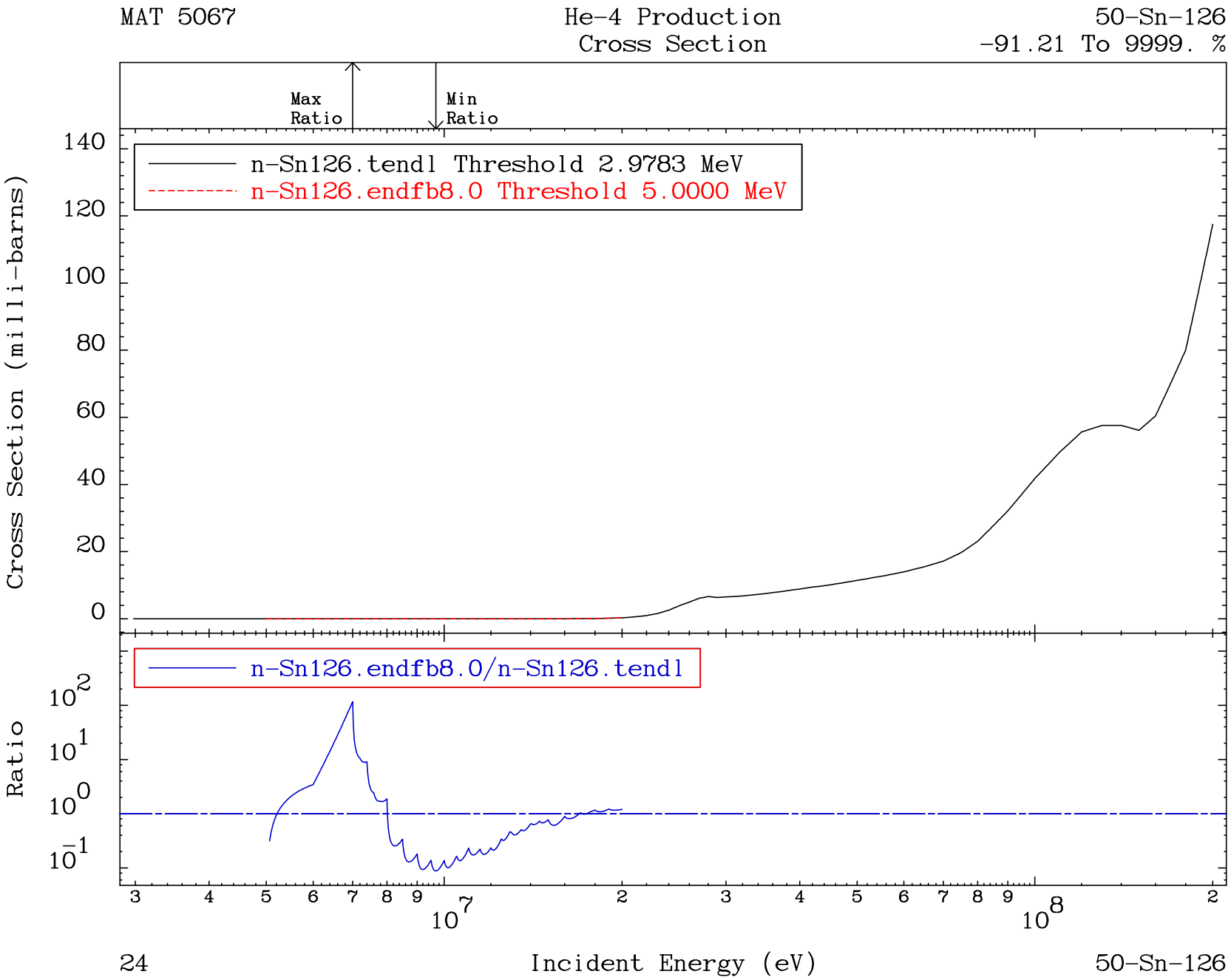

MAT 5067
(n,t)
Cross Section
50-Sn-126
-99.99 To 1224. %
Min Ratio
Max Ratio
n-Sn126.tendl Threshold 12.120 MeV
n-Sn126.endfb8.0 Threshold 13.000 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^2
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
50-Sn-126

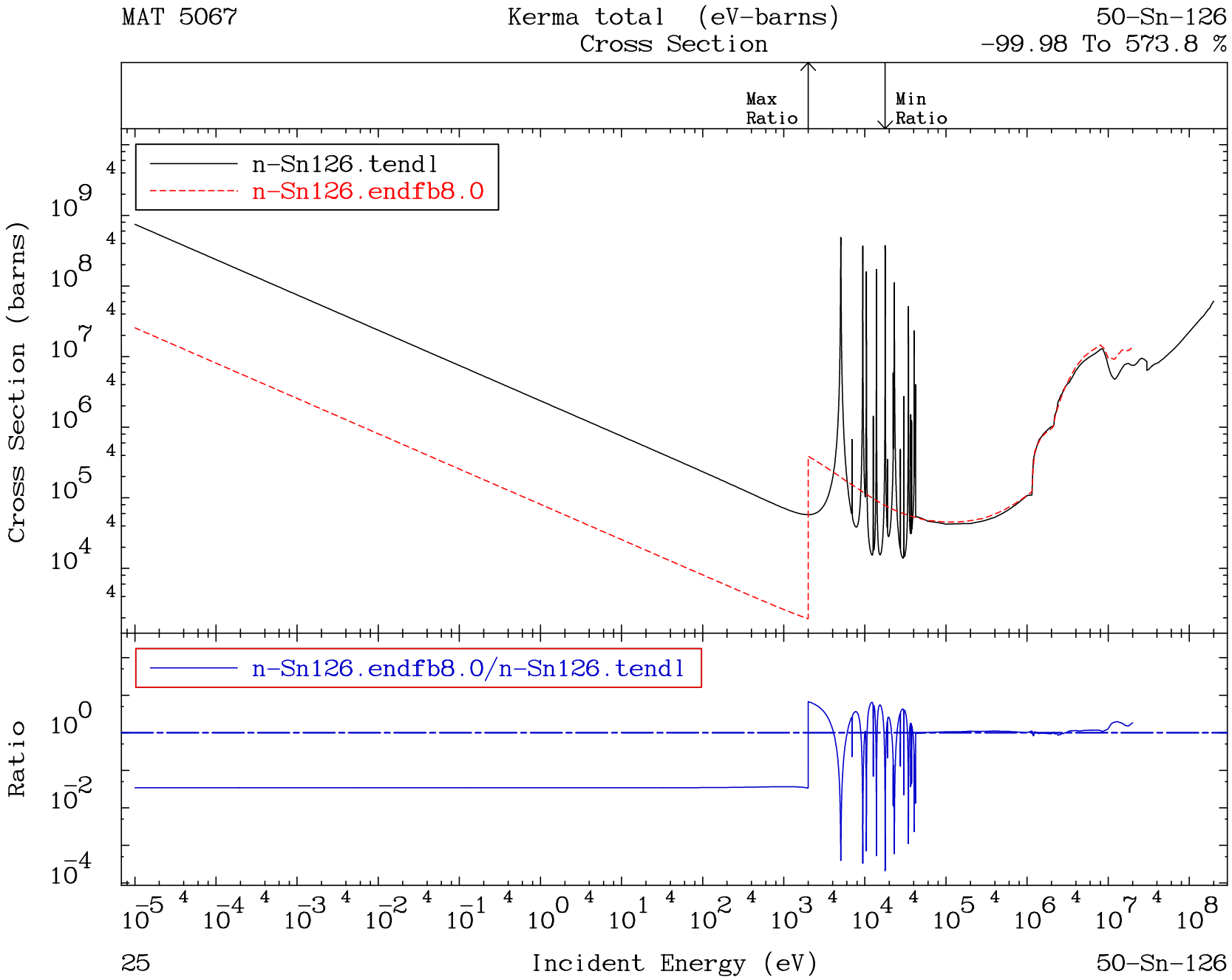

MAT 5067
(n,α)
Cross Section
50-Sn-126
-91.21 To 9999. %
Max Ratio
Min Ratio
n-Sn126.tendl Threshold 2.9783 MeV
n-Sn126.endfb8.0 Threshold 5.0000 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^2
10^1
10^0
10^-1
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
50-Sn-126

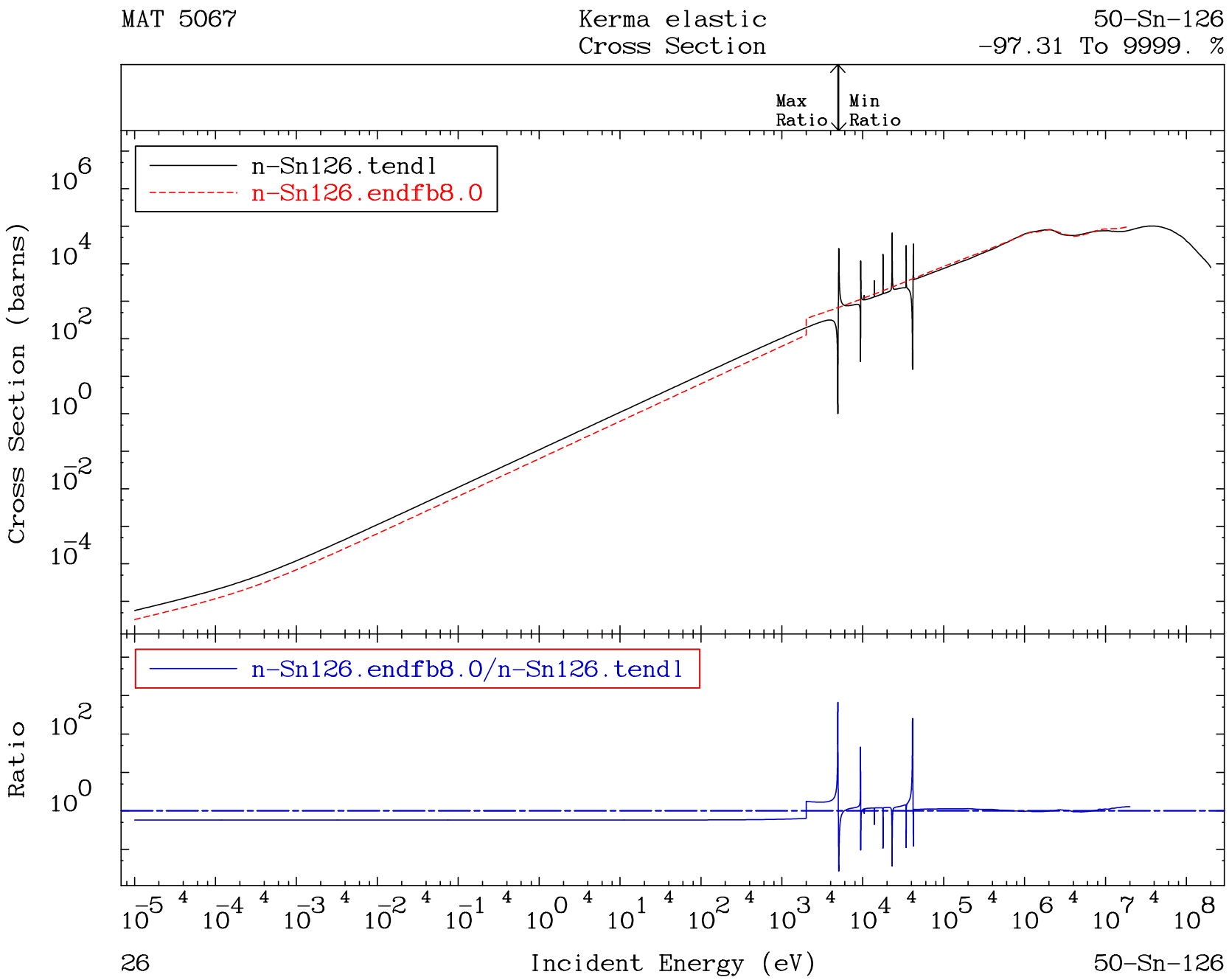

MAT 5067
Hydrogen Production
Cross Section
50-Sn-126
-100.0 To -10.28%
Min Ratio
Max Ratio
n-Sn126.tendl Threshold 7.5197 MeV
n-Sn126.endfb8.0 Threshold 9.0000 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^0
10^-3
10^-6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
50-Sn-126

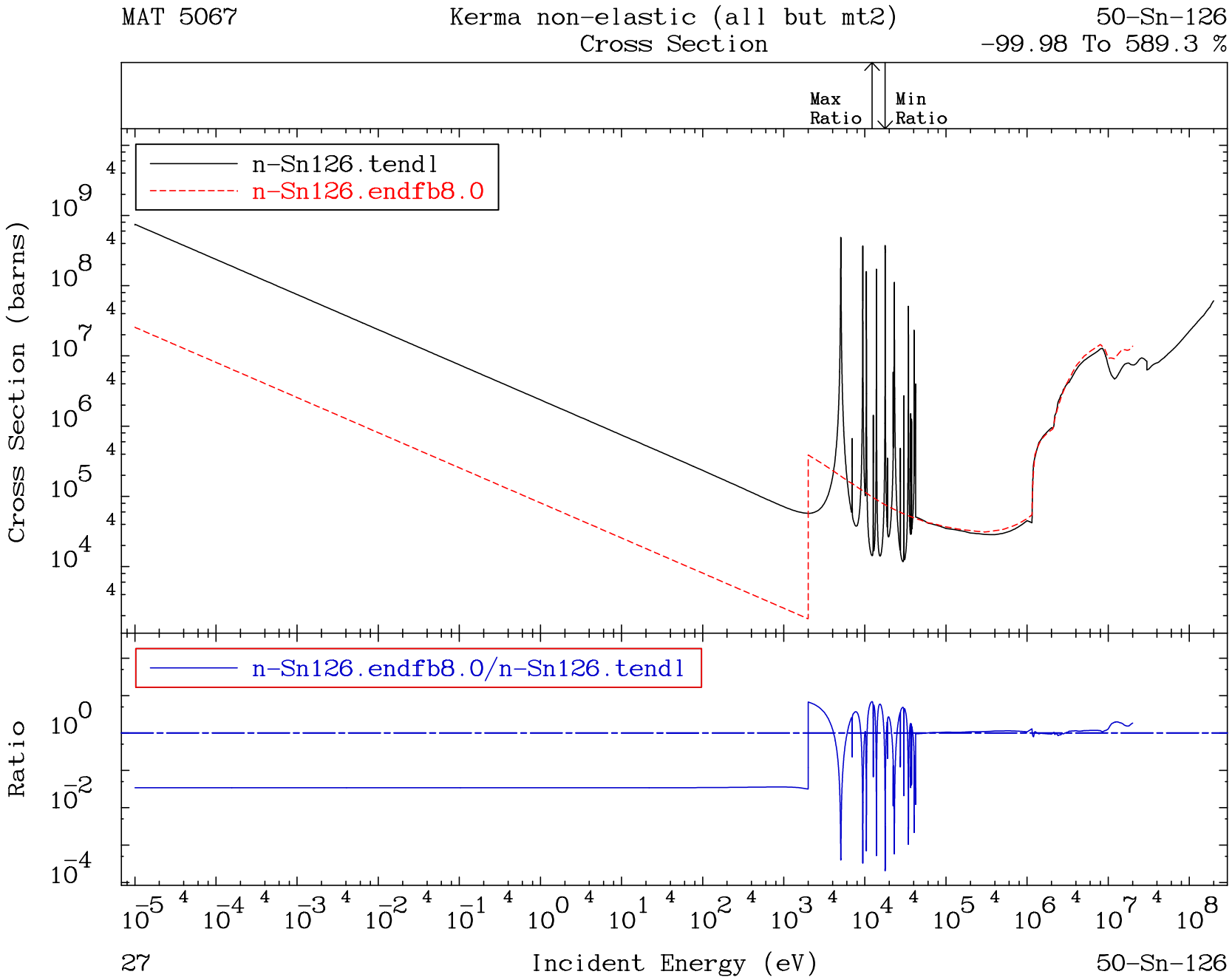

MAT 5067
Deuterium Production
Cross Section
50-Sn-126
-100.0 To -10.75%
Min Ratio
Max Ratio
n-Sn126.tendl Threshold 10.688 MeV
n-Sn126.endfb8.0 Threshold 13.000 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^8
2
22
Incident Energy (eV)
50-Sn-126

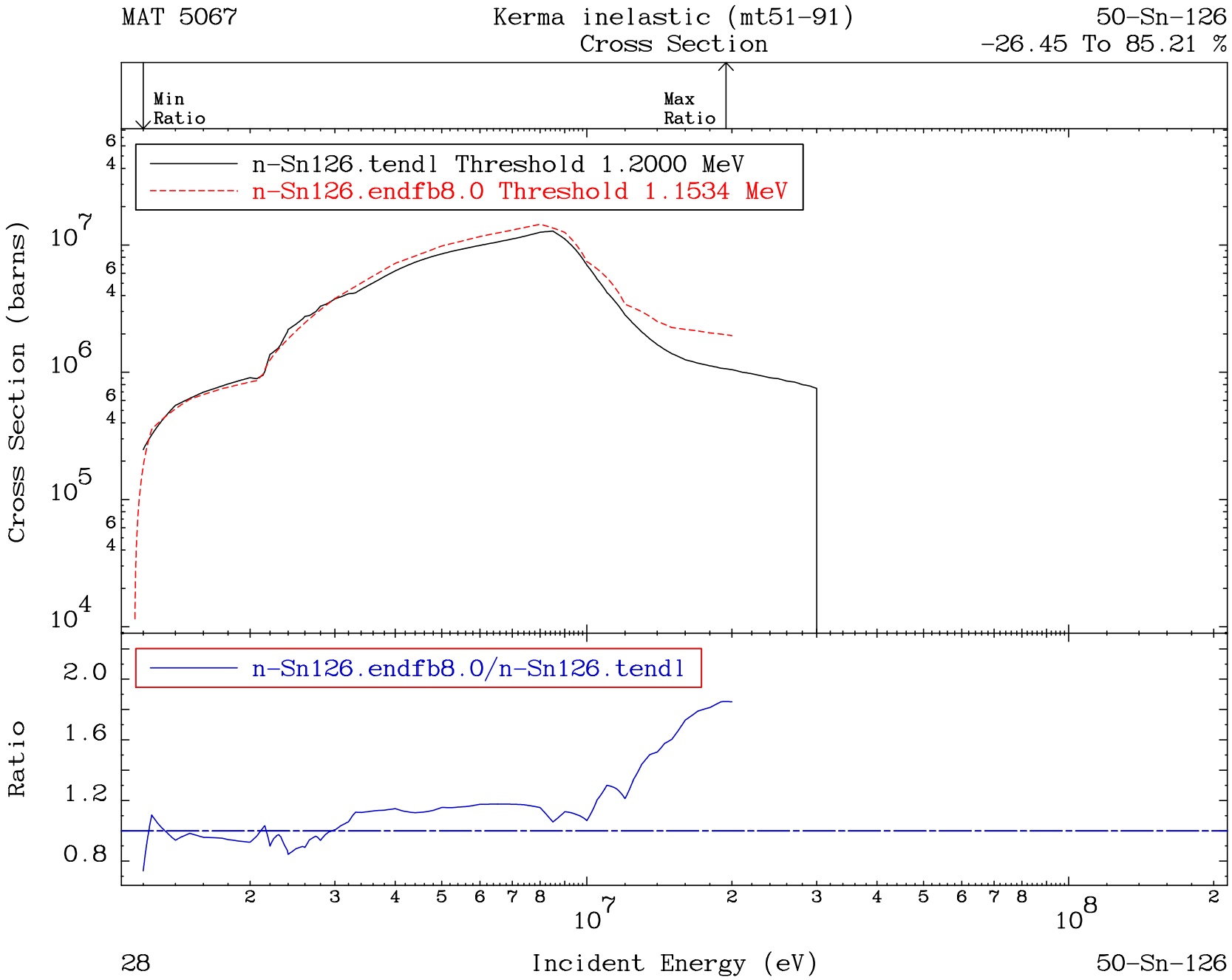

MAT 5067
Tritium Production
Cross Section
50-Sn-126
-99.99 To 1224. %
Min Ratio
Max Ratio
n-Sn126.tendl Threshold 12.120 MeV
n-Sn126.endfb8.0 Threshold 13.000 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^2
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
23
Incident Energy (eV)
50-Sn-126

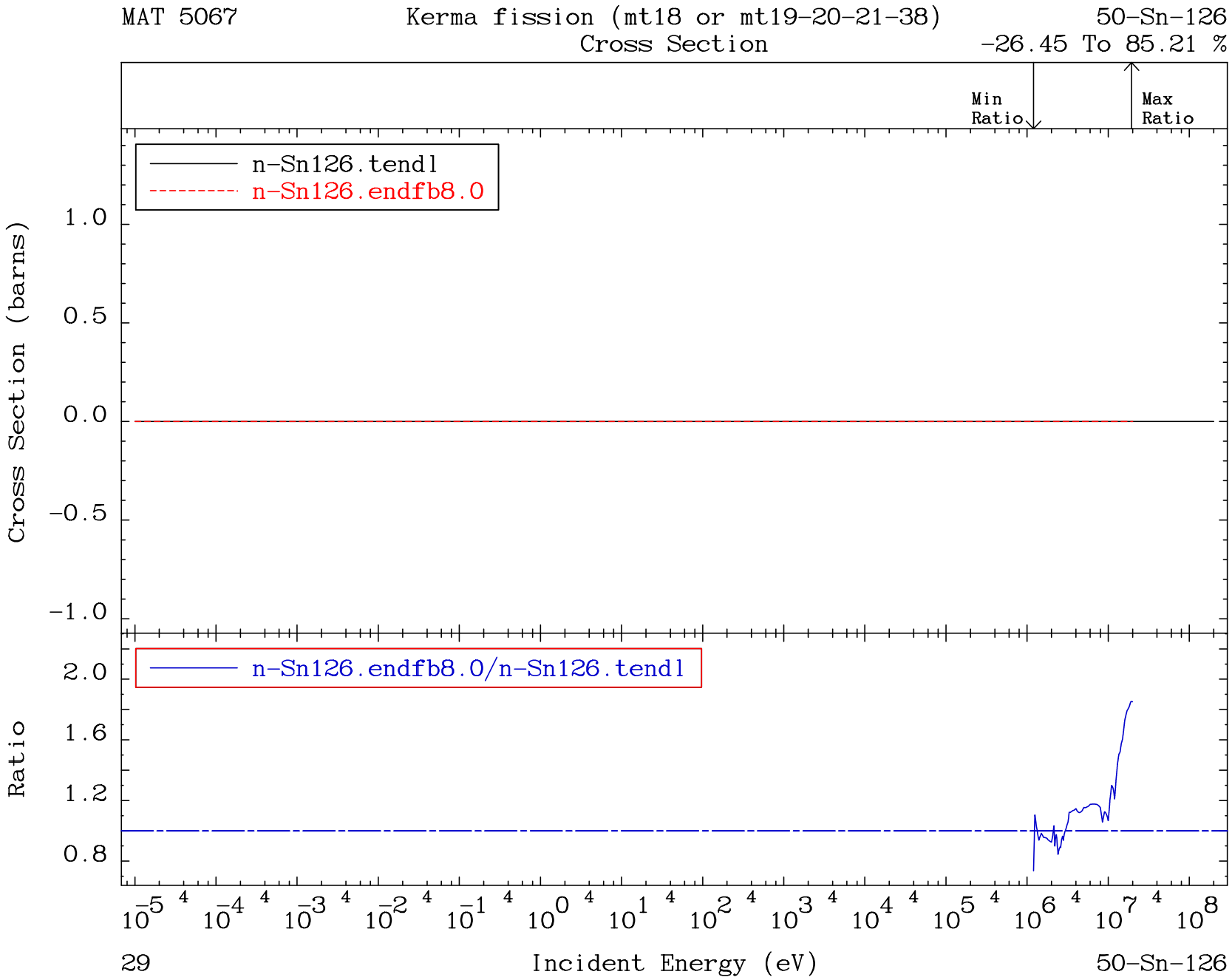

MAT 5067
He-4 Production
Cross Section
50-Sn-126
-91.21 To 9999. %
Max Ratio
Min Ratio
n-Sn126.tendl Threshold 2.9783 MeV
n-Sn126.endfb8.0 Threshold 5.0000 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^2
10^1
10^0
10^-1
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
50-Sn-126

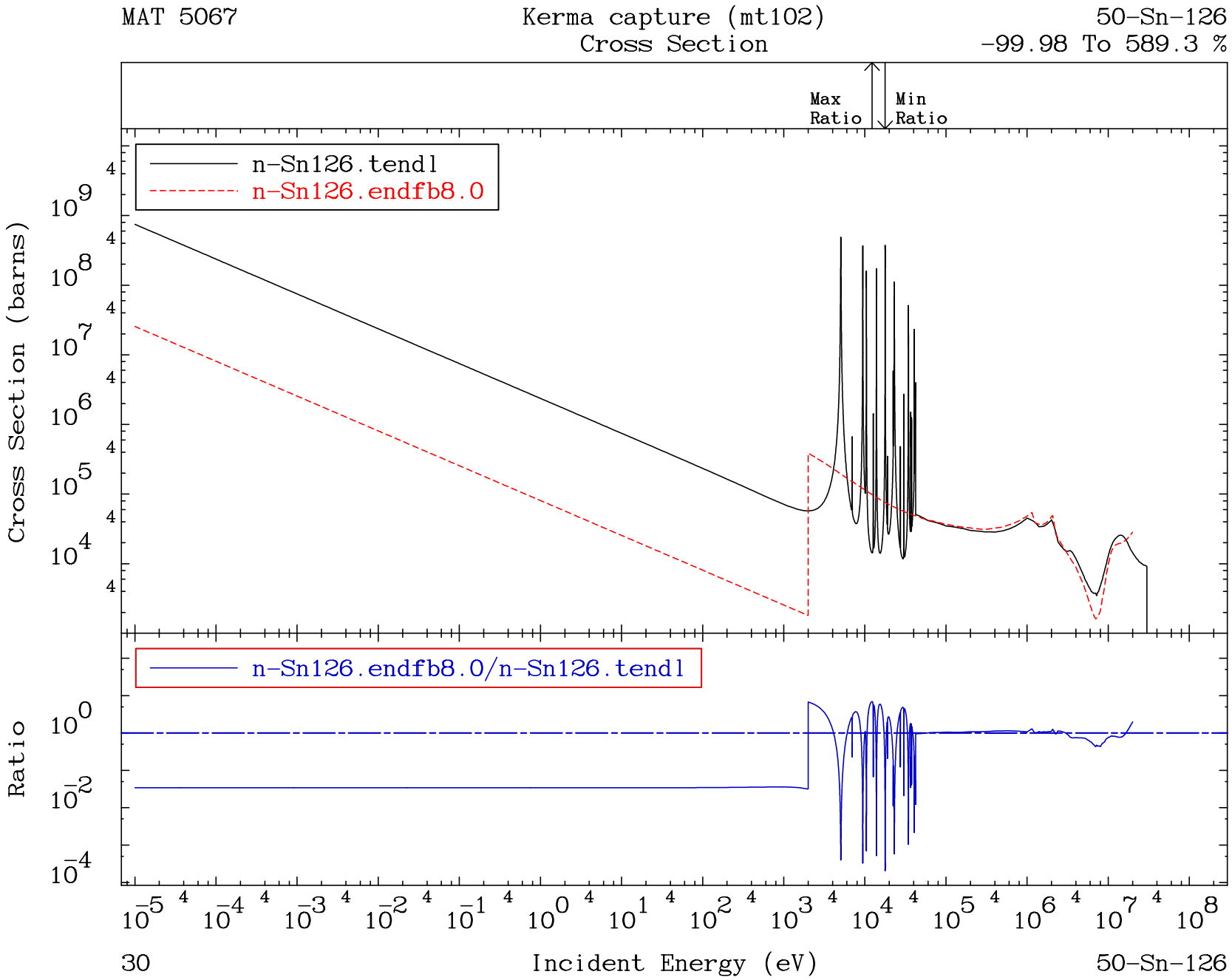

MAT 5067
Kerma total (eV-barns)
Cross Section
50-Sn-126
-99.98 To 573.8 %
Max Ratio
Min Ratio
n-Sn126.tendl
n-Sn126.endfb8.0
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
25
50-Sn-126

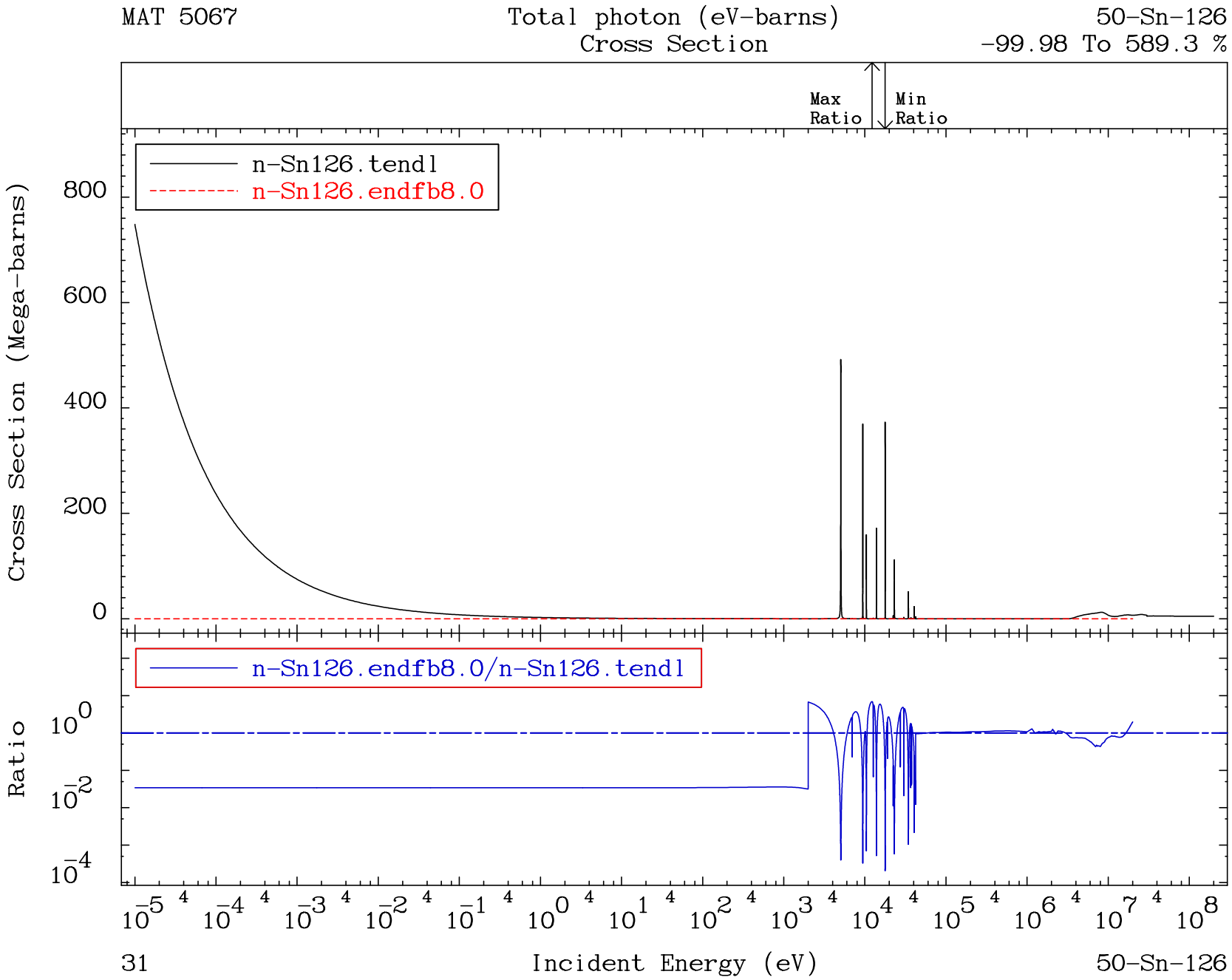

MAT 5067
Kerma elastic
Cross Section
50-Sn-126
-97.31 To 9999. %
Max Ratio
Min Ratio
n-Sn126.tendl
n-Sn126.endfb8.0
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
26
50-Sn-126

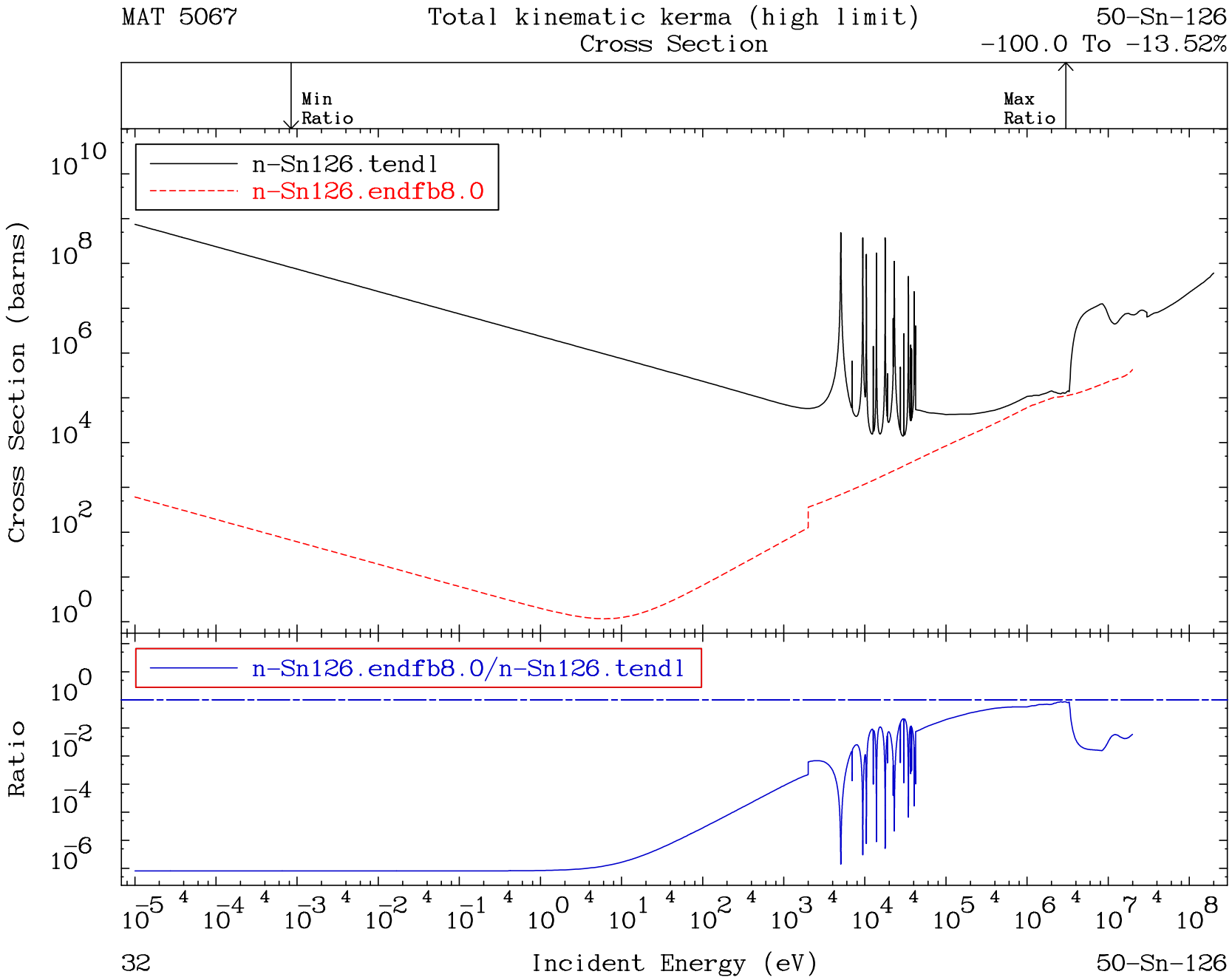

MAT 5067
Kerma non-elastic (all but mt2)
Cross Section
50-Sn-126
-99.98 To 589.3 %
Max Ratio
Min Ratio
n-Sn126.tendl
n-Sn126.endfb8.0
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
27
50-Sn-126

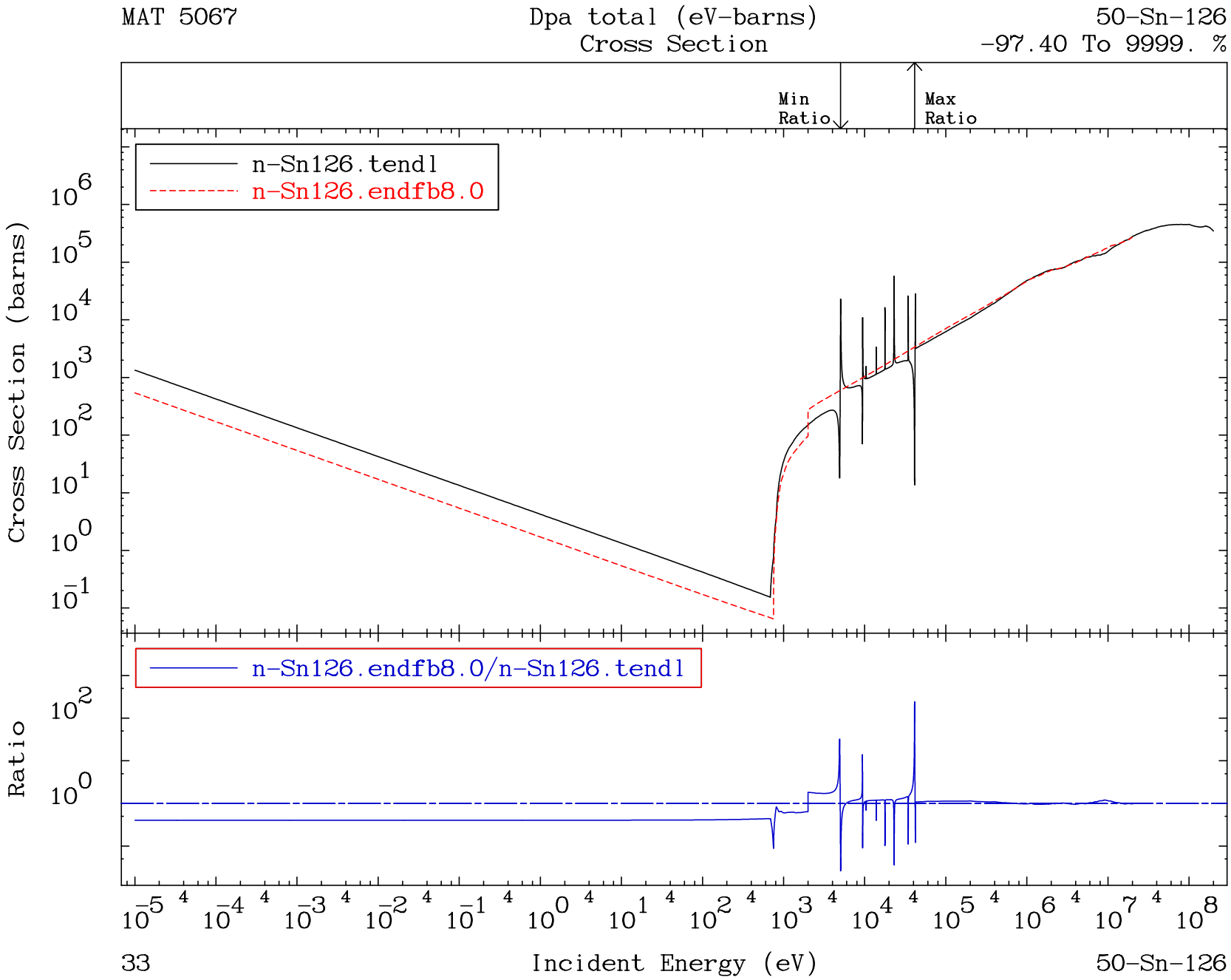

MAT 5067
Kerma inelastic (mt51-91)
Cross Section
50-Sn-126
-26.45 To 85.21 %
Min Ratio
Max Ratio
n-Sn126.tendl Threshold 1.2000 MeV
n-Sn126.endfb8.0 Threshold 1.1534 MeV
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
28
50-Sn-126

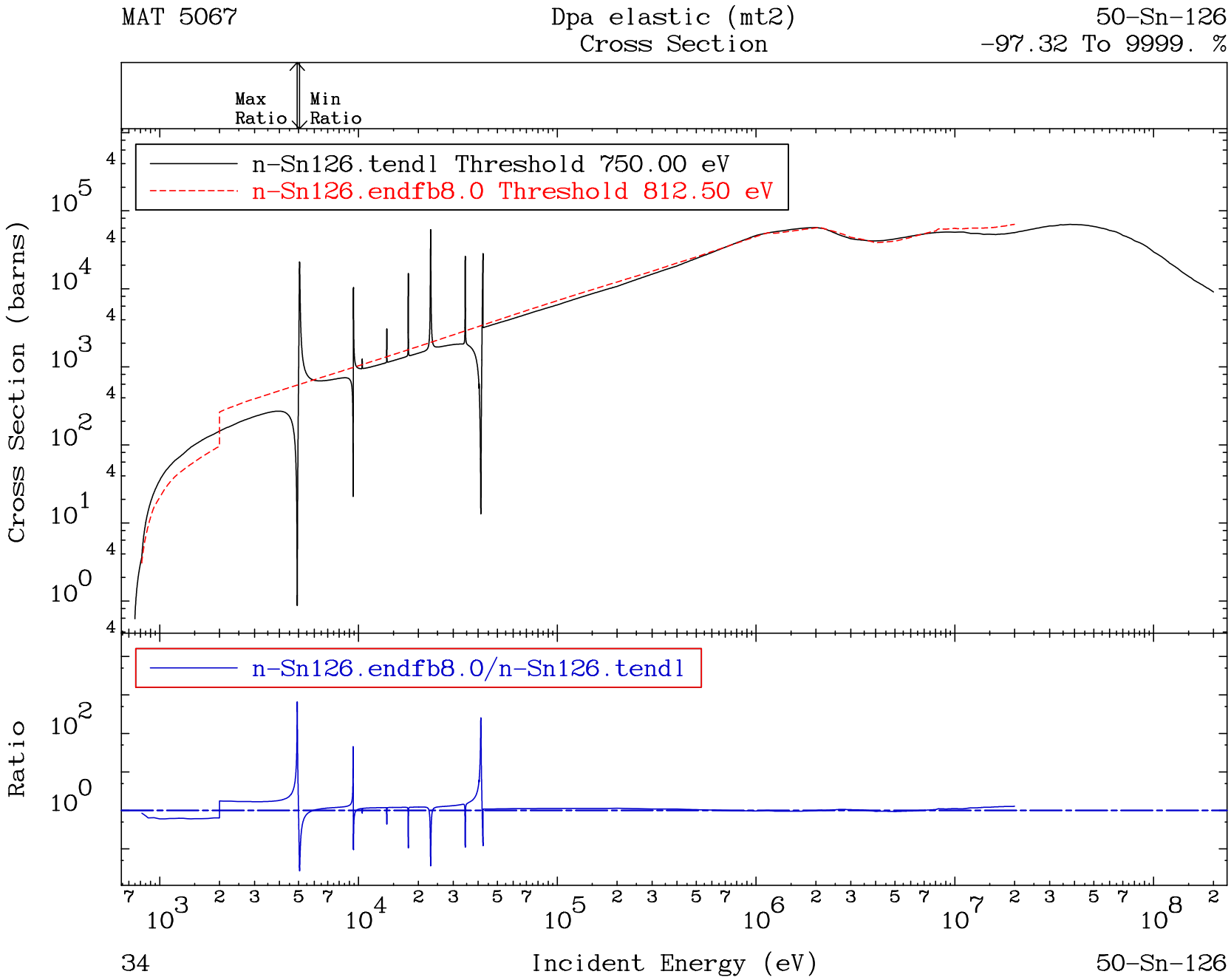

MAT 5067
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
50-Sn-126
-26.45 To 85.21 %
Min Ratio
Max Ratio
n-Sn126.tendl
n-Sn126.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
2.0
1.6
1.2
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
29
Incident Energy (eV)
50-Sn-126

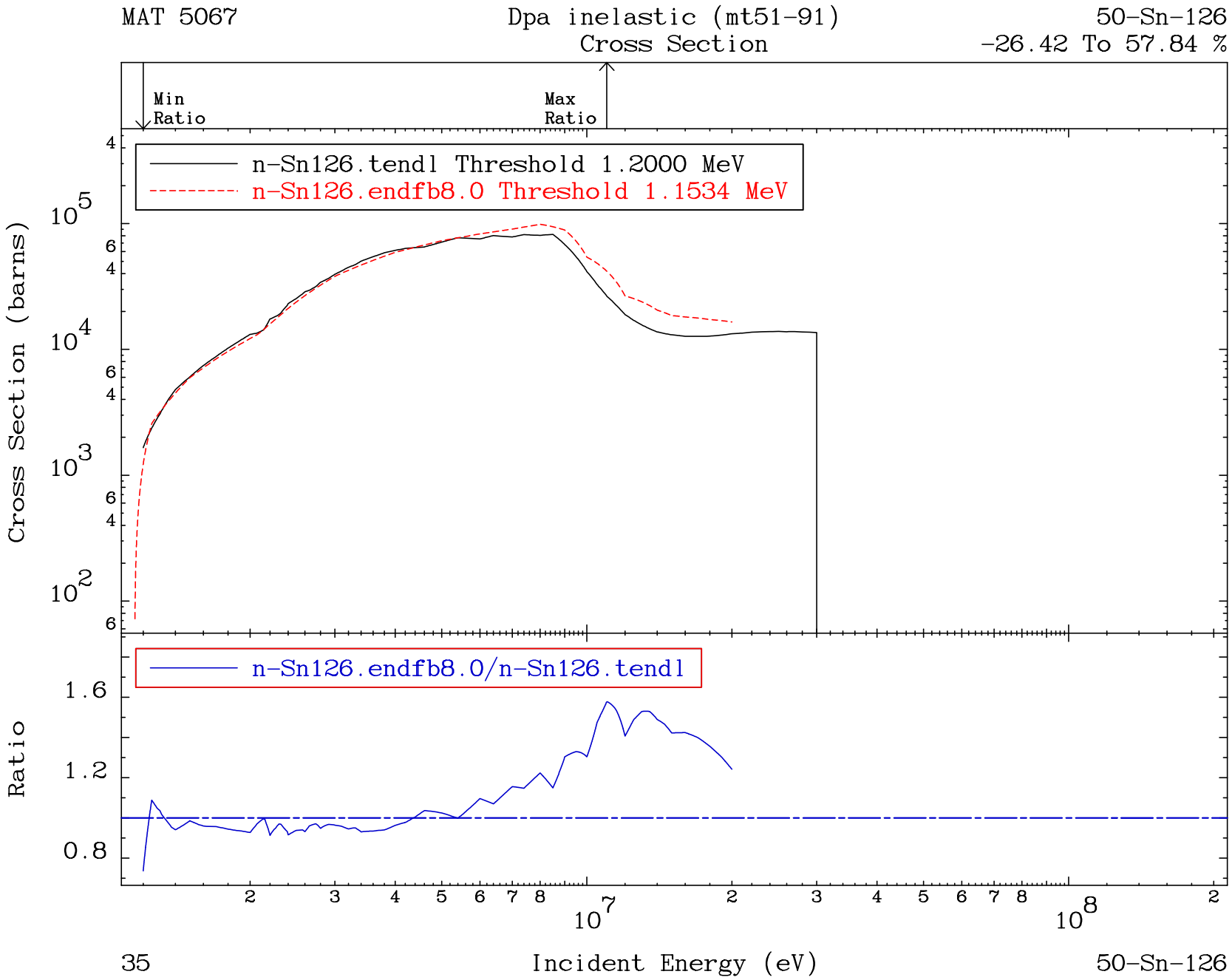

MAT 5067
Kerma capture (mt102)
Cross Section
50-Sn-126
-99.98 To 589.3 %
Max Ratio
Min Ratio
n-Sn126.tendl
n-Sn126.endfb8.0
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
30
50-Sn-126

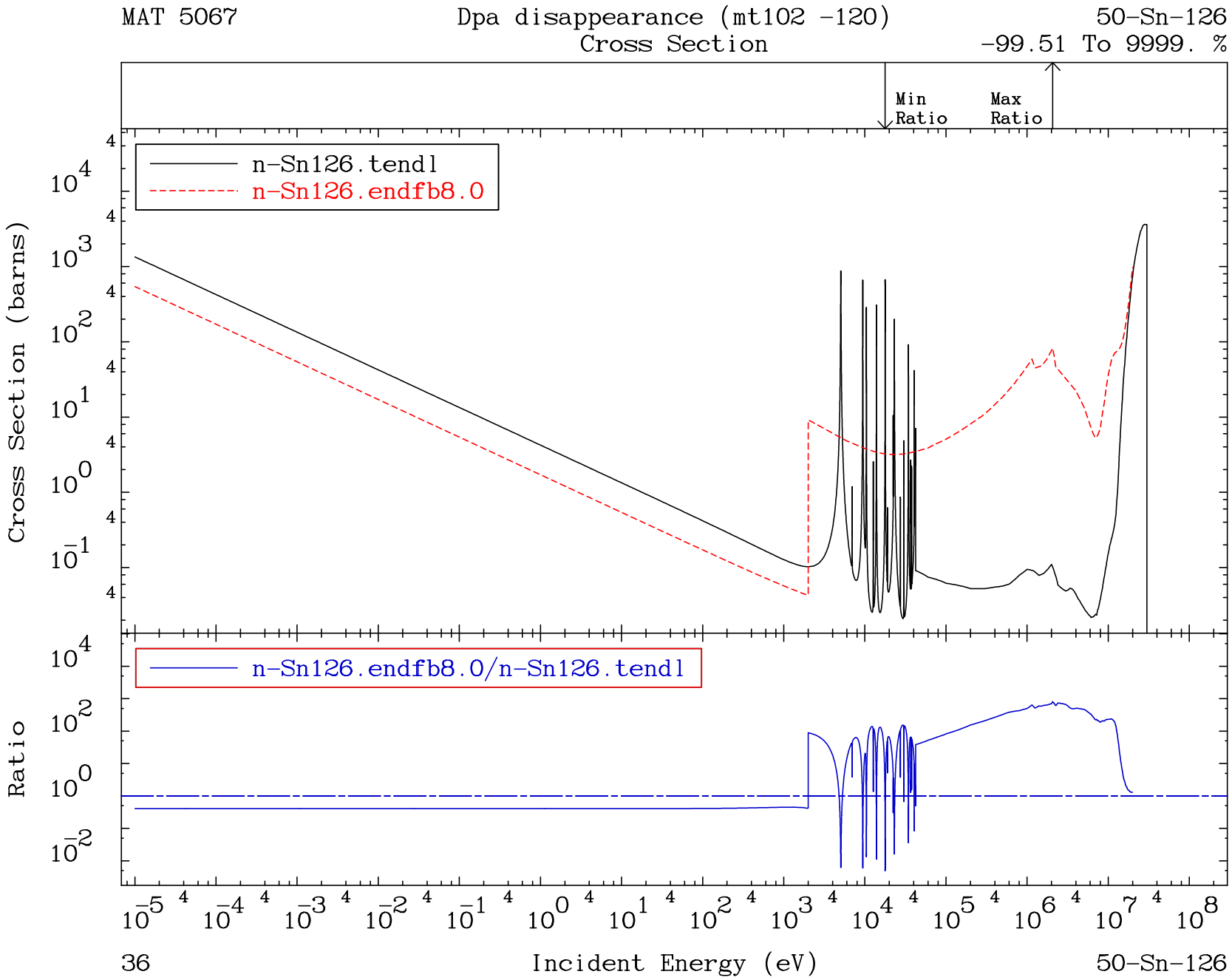

MAT 5067
Total photon (eV-barns)
Cross Section
50-Sn-126
-99.98 To 589.3 %
Max Ratio
Min Ratio
n-Sn126.tendl
n-Sn126.endfb8.0
Cross Section (Mega-barns)
800
600
400
200
0
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
10^0
10^-2
10^-4
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
31
Incident Energy (eV)
50-Sn-126


MAT 5067
Total kinematic kerma (high limit)
Cross Section
50-Sn-126
-100.0 To -13.52%
Min Ratio
Max Ratio
n-Sn126.tendl
n-Sn126.endfb8.0
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
32
50-Sn-126


MAT 5067
Dpa total (eV-barns)
Cross Section
50-Sn-126
-97.40 To 9999. %
Min Ratio
Max Ratio
n-Sn126.tendl
n-Sn126.endfb8.0
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
33
50-Sn-126


MAT 5067
Dpa elastic (mt2)
Cross Section
50-Sn-126
-97.32 To 9999. %
Max Ratio
Min Ratio
n-Sn126.tendl Threshold 750.00 eV
n-Sn126.endfb8.0 Threshold 812.50 eV
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
34
50-Sn-126


MAT 5067
Dpa inelastic (mt51-91)
Cross Section
50-Sn-126
-26.42 To 57.84 %
Min Ratio
Max Ratio
n-Sn126.tendl Threshold 1.2000 MeV
n-Sn126.endfb8.0 Threshold 1.1534 MeV
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
35
50-Sn-126


MAT 5067
Dpa disappearance (mt102 -120)
Cross Section
50-Sn-126
-99.51 To 9999. %
Min Ratio
Max Ratio
n-Sn126.tendl
n-Sn126.endfb8.0
Cross Section (barns)
n-Sn126.endfb8.0/n-Sn126.tendl
Ratio
Incident Energy (eV)
36
50-Sn-126