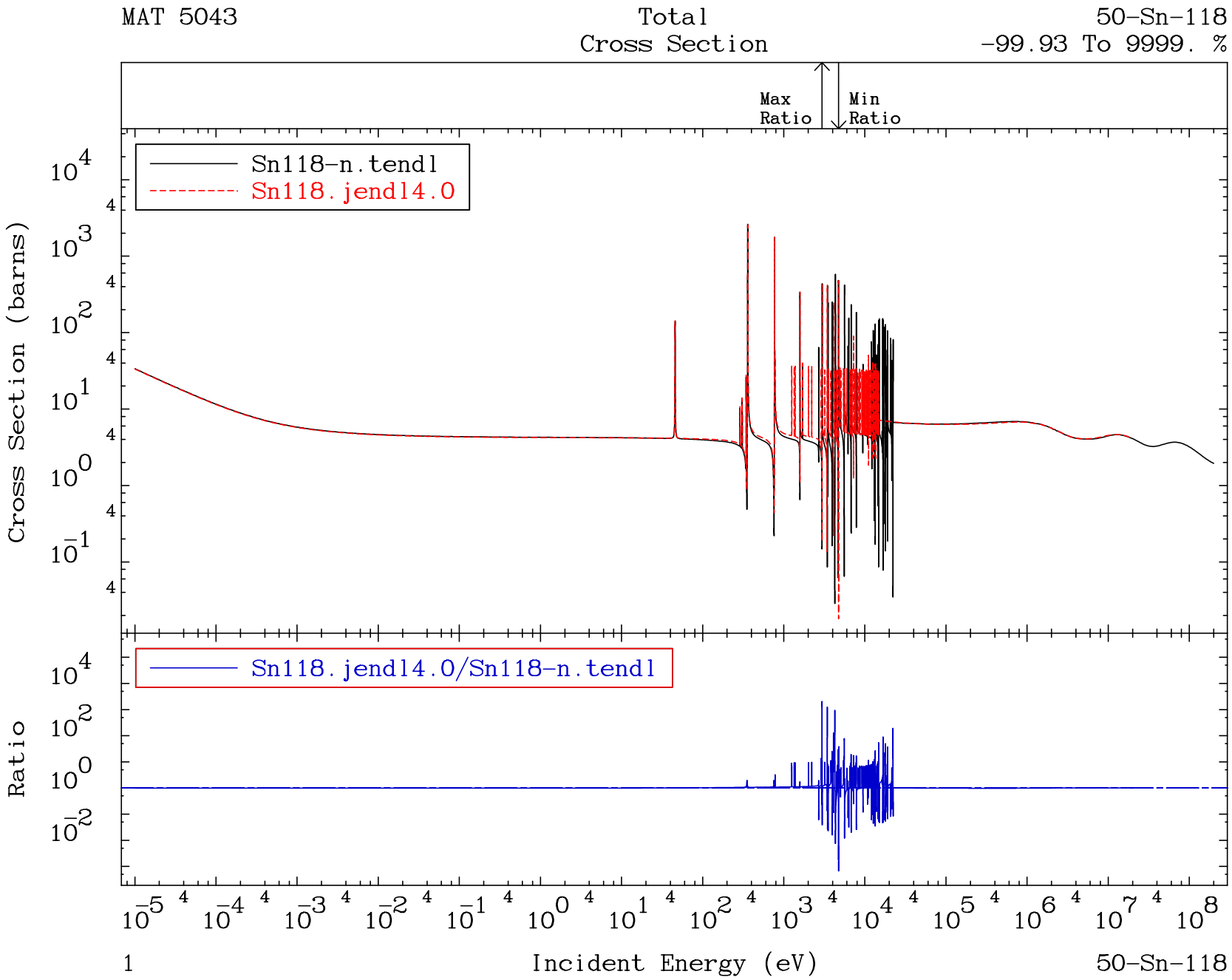
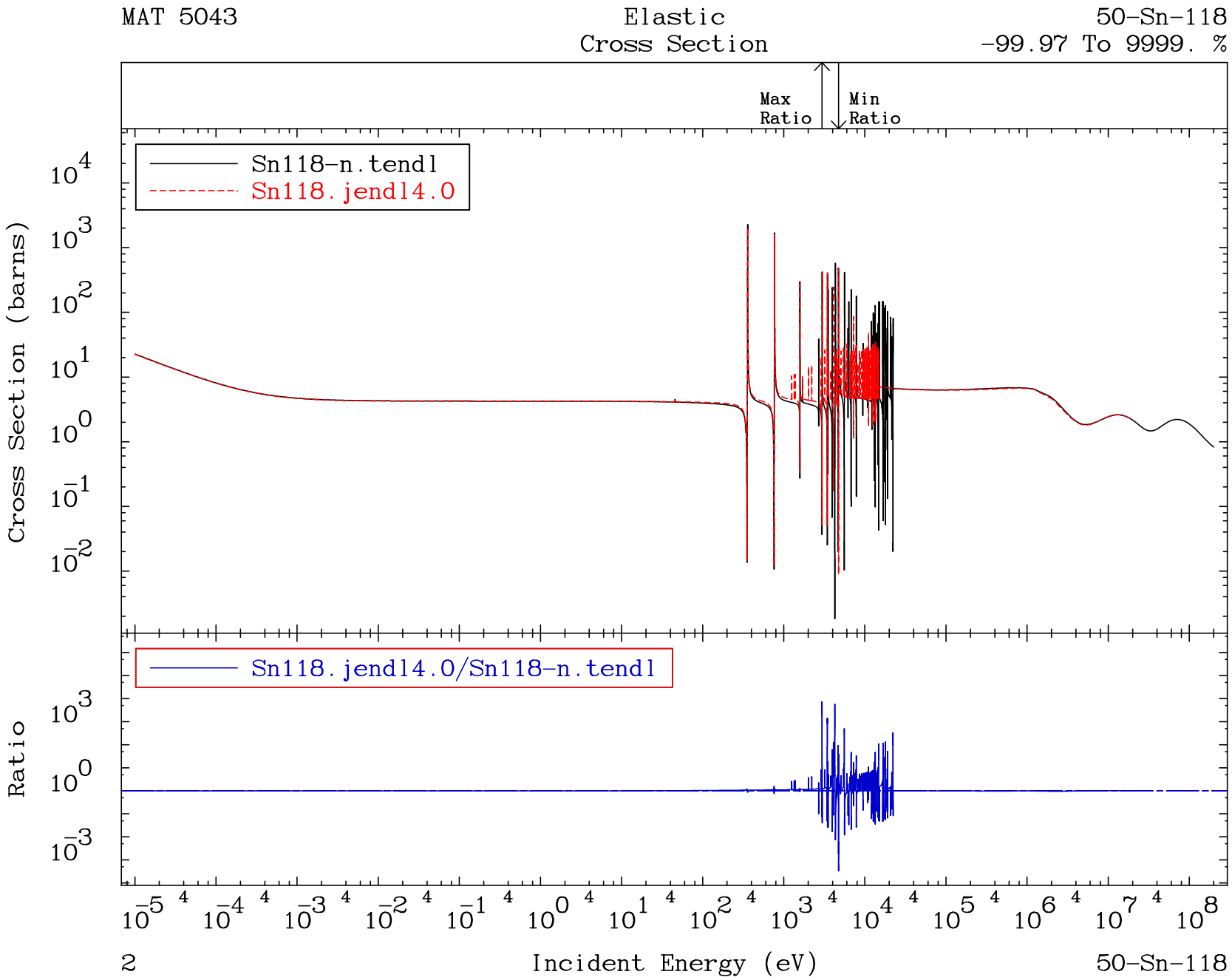
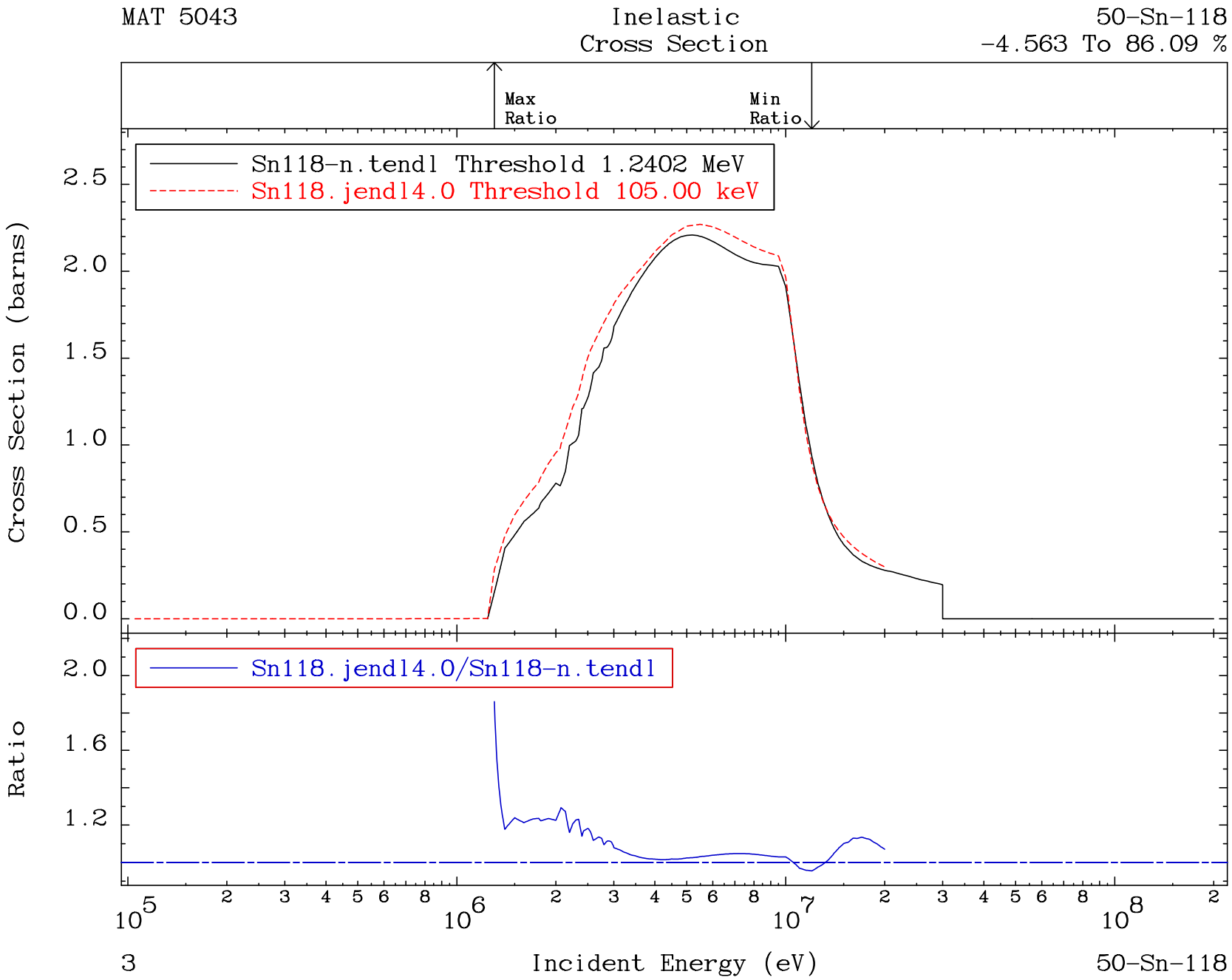
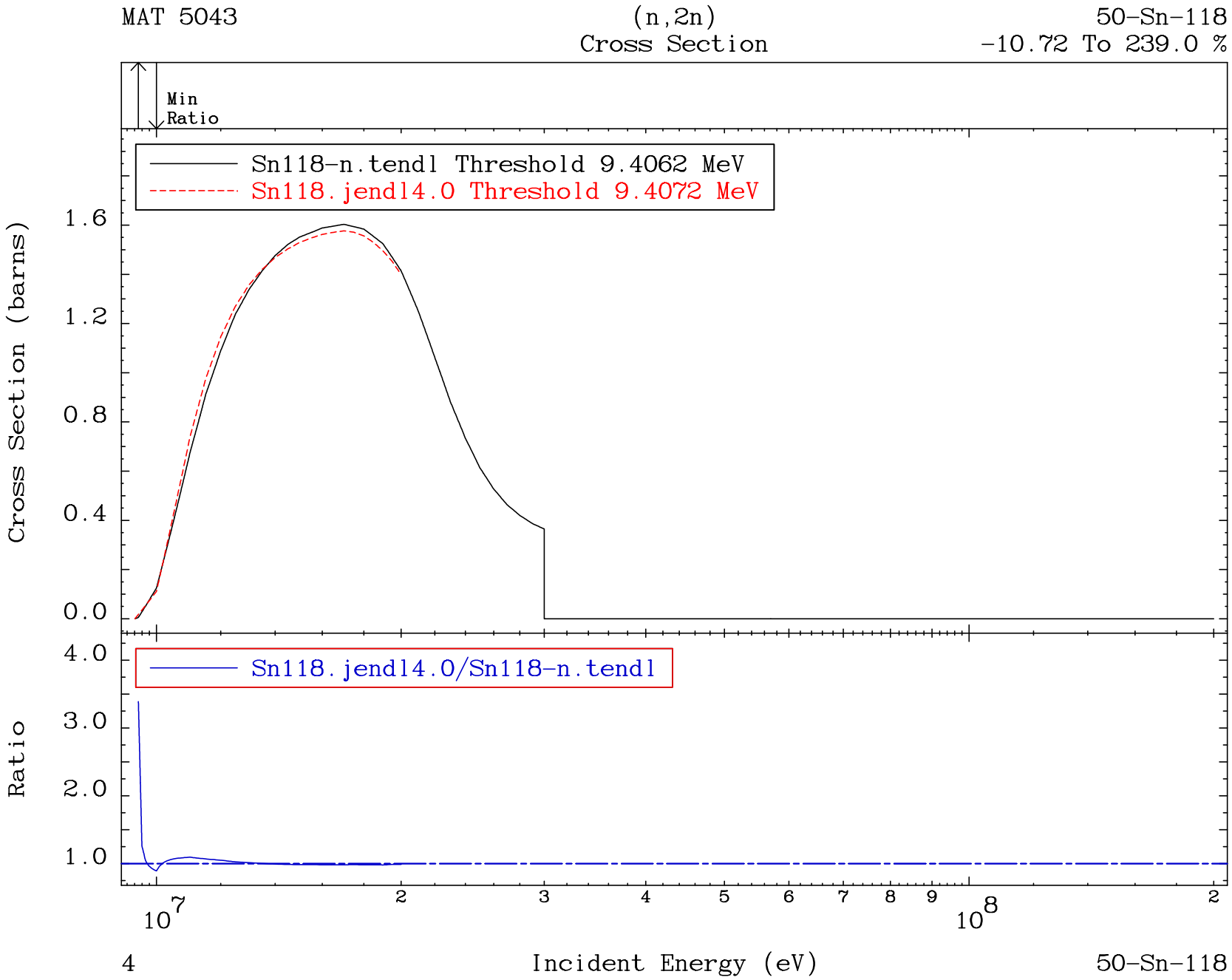
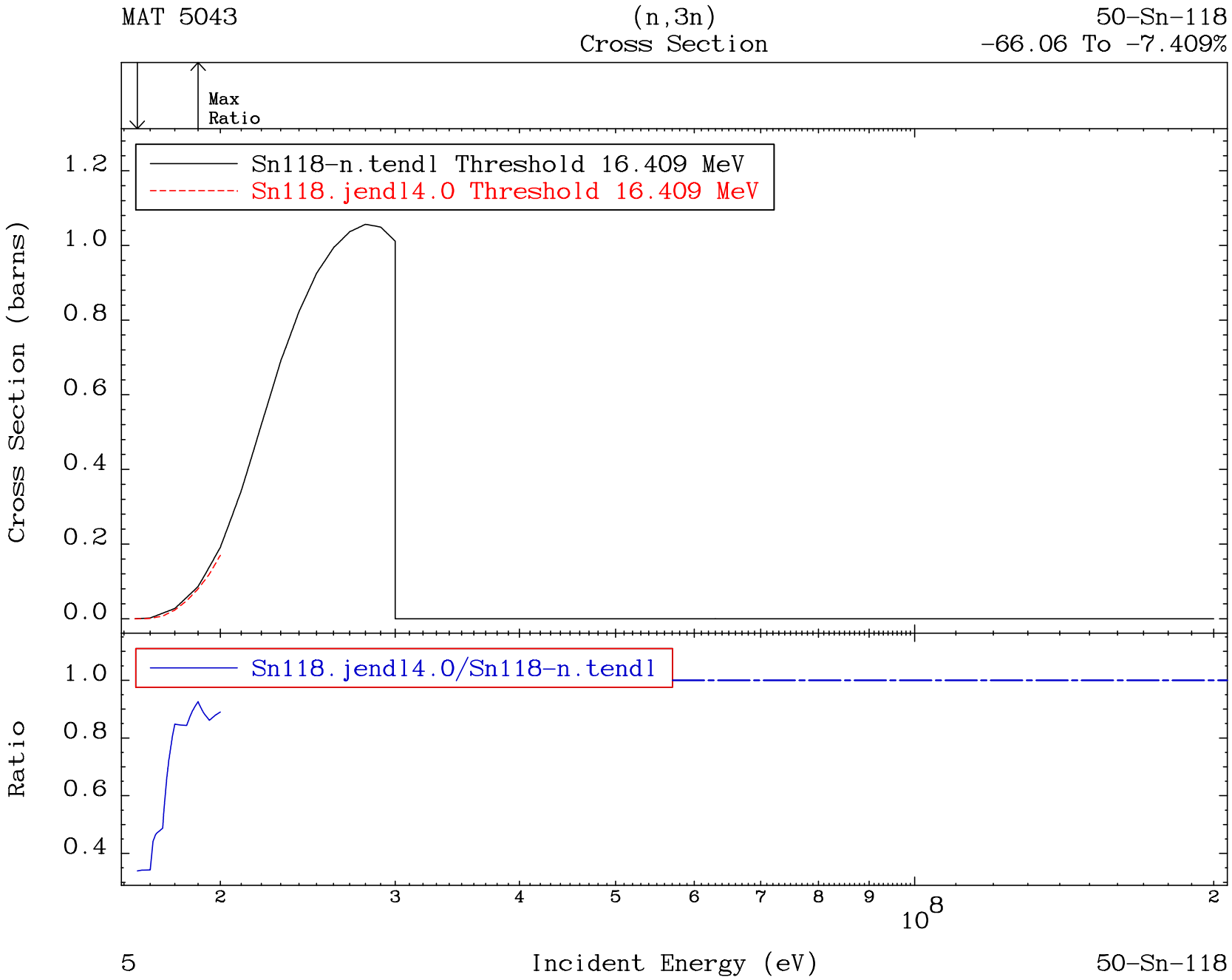
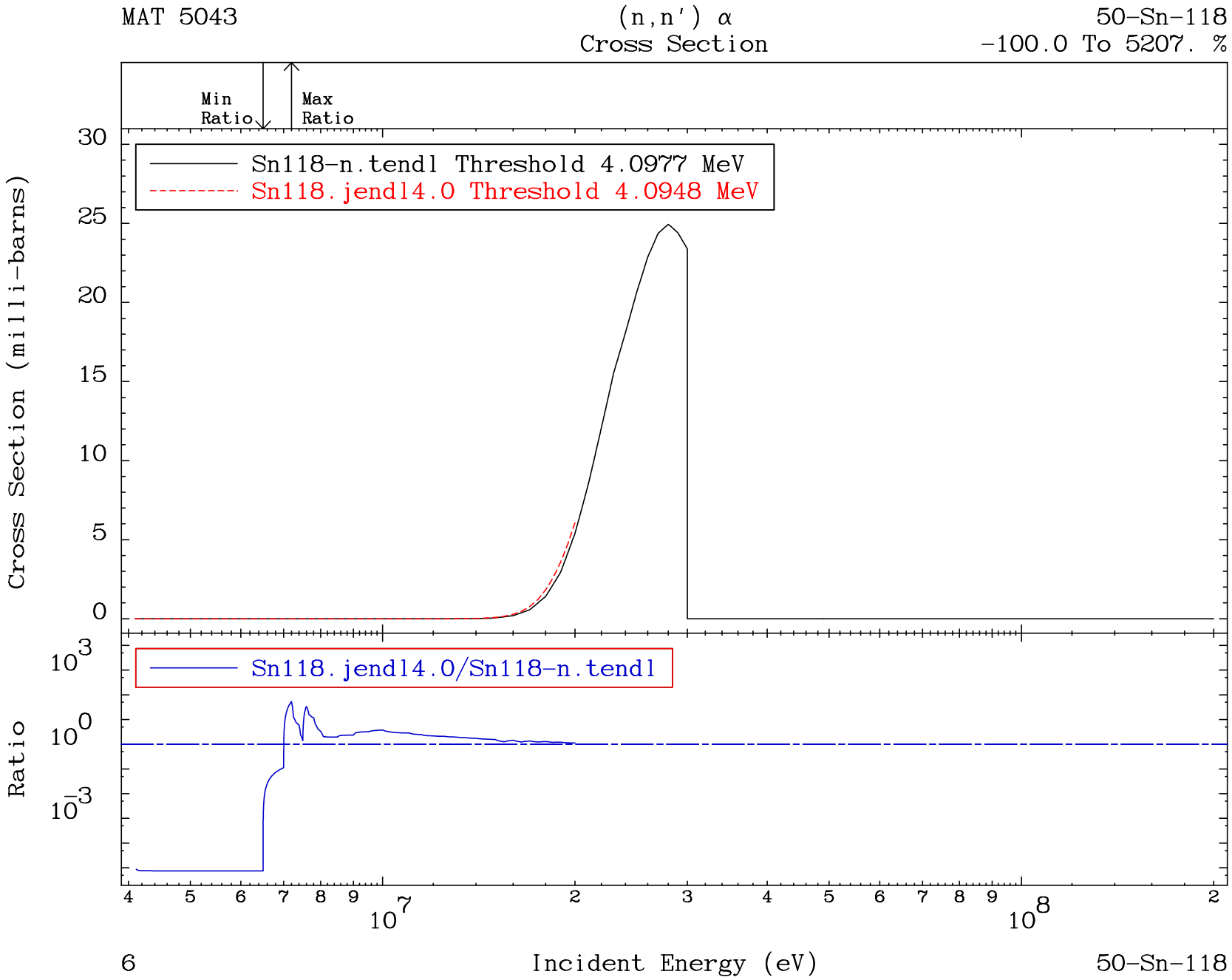

MAT 5043
Total
Cross Section
50-Sn-118
-99.93 To 9999. %
Max Ratio
Min Ratio
Sn118-n.tendl
Sn118.jendl4.0
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
1
50-Sn-118

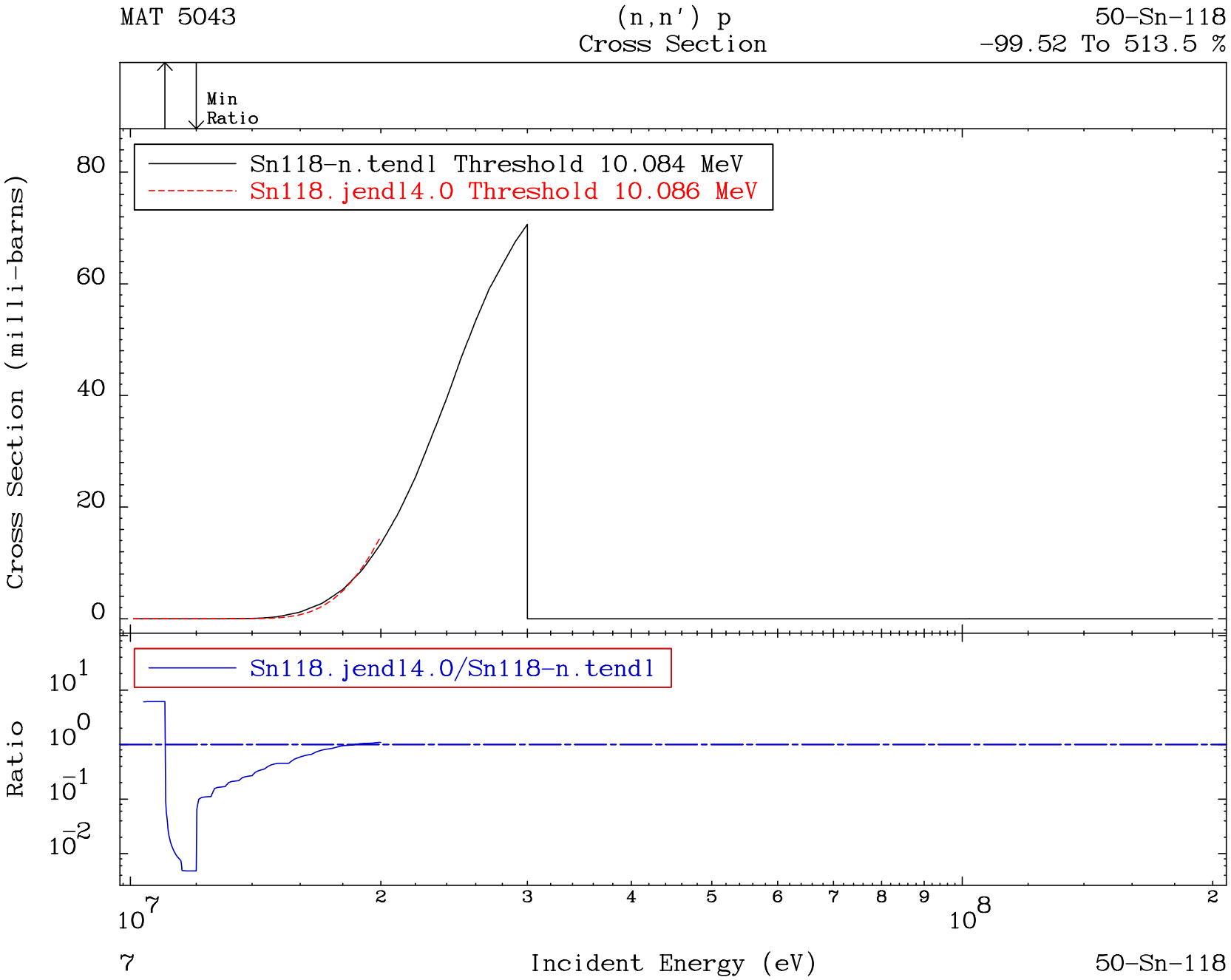

MAT 5043
Elastic
Cross Section
50-Sn-118
-99.97 To 9999. %
Max Ratio
Min Ratio
Sn118-n.tendl
Sn118.jendl4.0
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
2
50-Sn-118

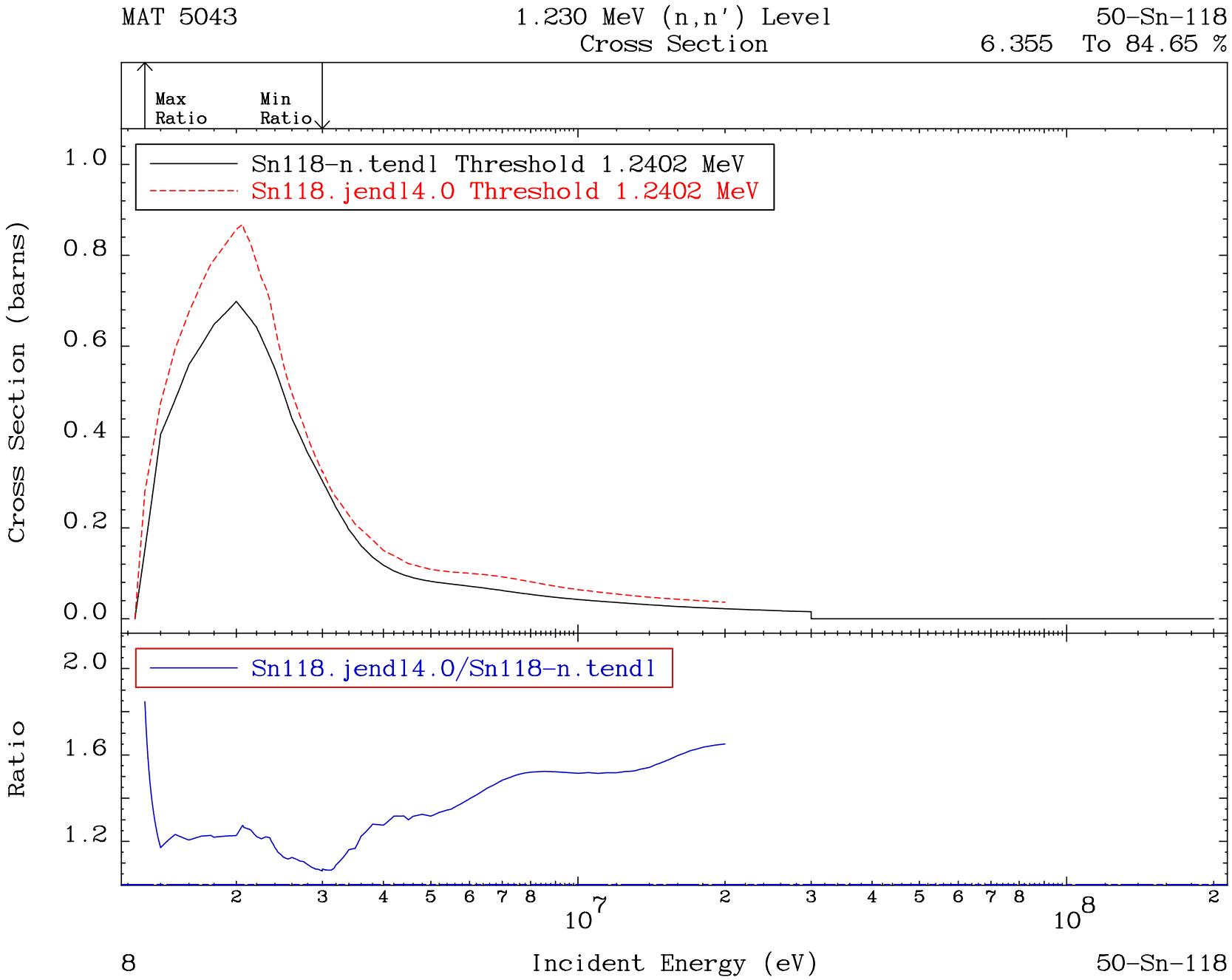

MAT 5043
Inelastic
Cross Section
50-Sn-118
-4.563 To 86.09 %
Max
Ratio
Min
Ratio
Sn118-n.tendl Threshold 1.2402 MeV
Sn118.jendl4.0 Threshold 105.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
2.0
1.6
1.2
10^5
10^6
10^7
10^8
Incident Energy (eV)
3
50-Sn-118

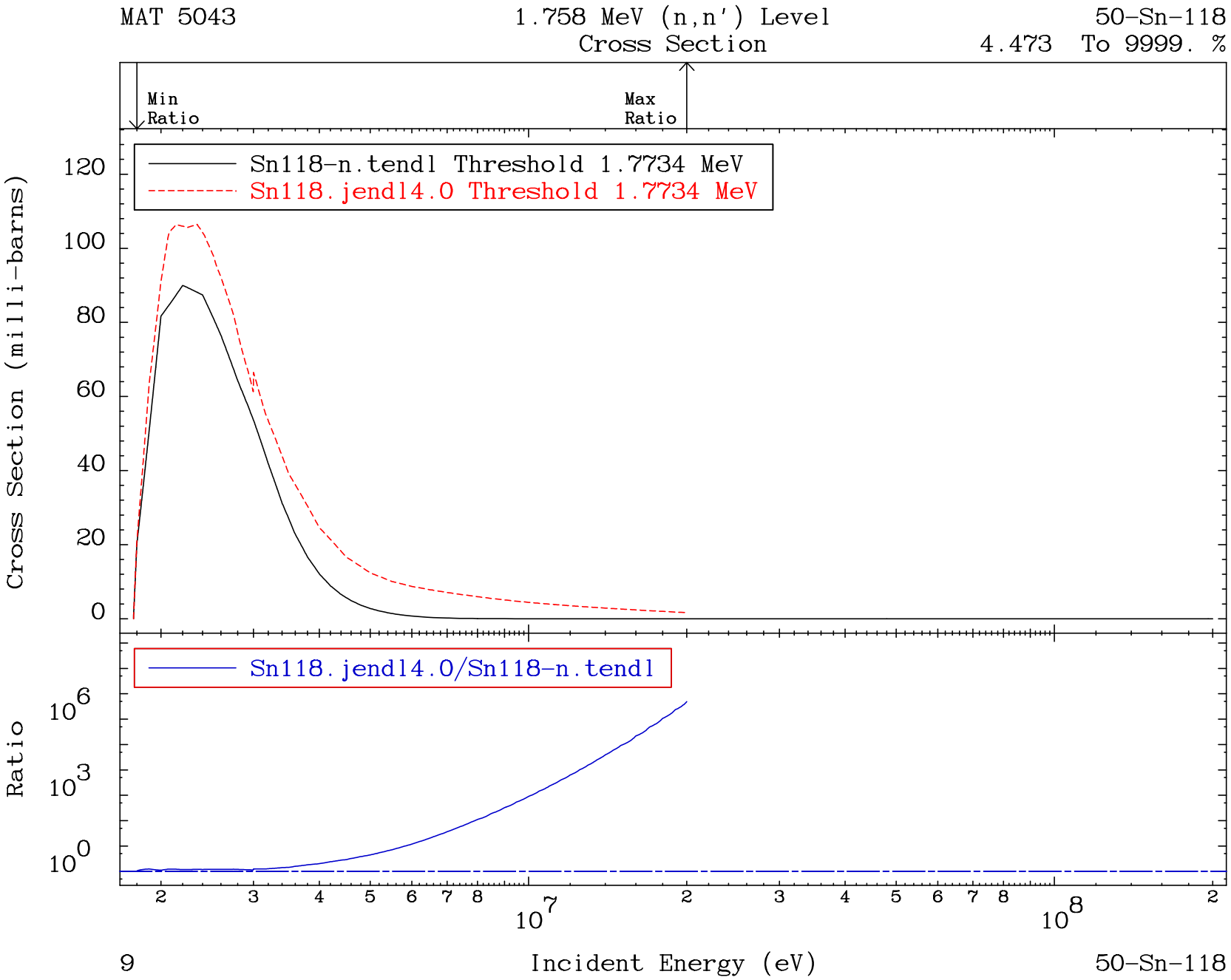

MAT 5043
(n,2n)
Cross Section
50-Sn-118
-10.72 To 239.0 %
Min
Ratio
Sn118-n.tendl Threshold 9.4062 MeV
Sn118.jendl4.0 Threshold 9.4072 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
4.0
3.0
2.0
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
50-Sn-118

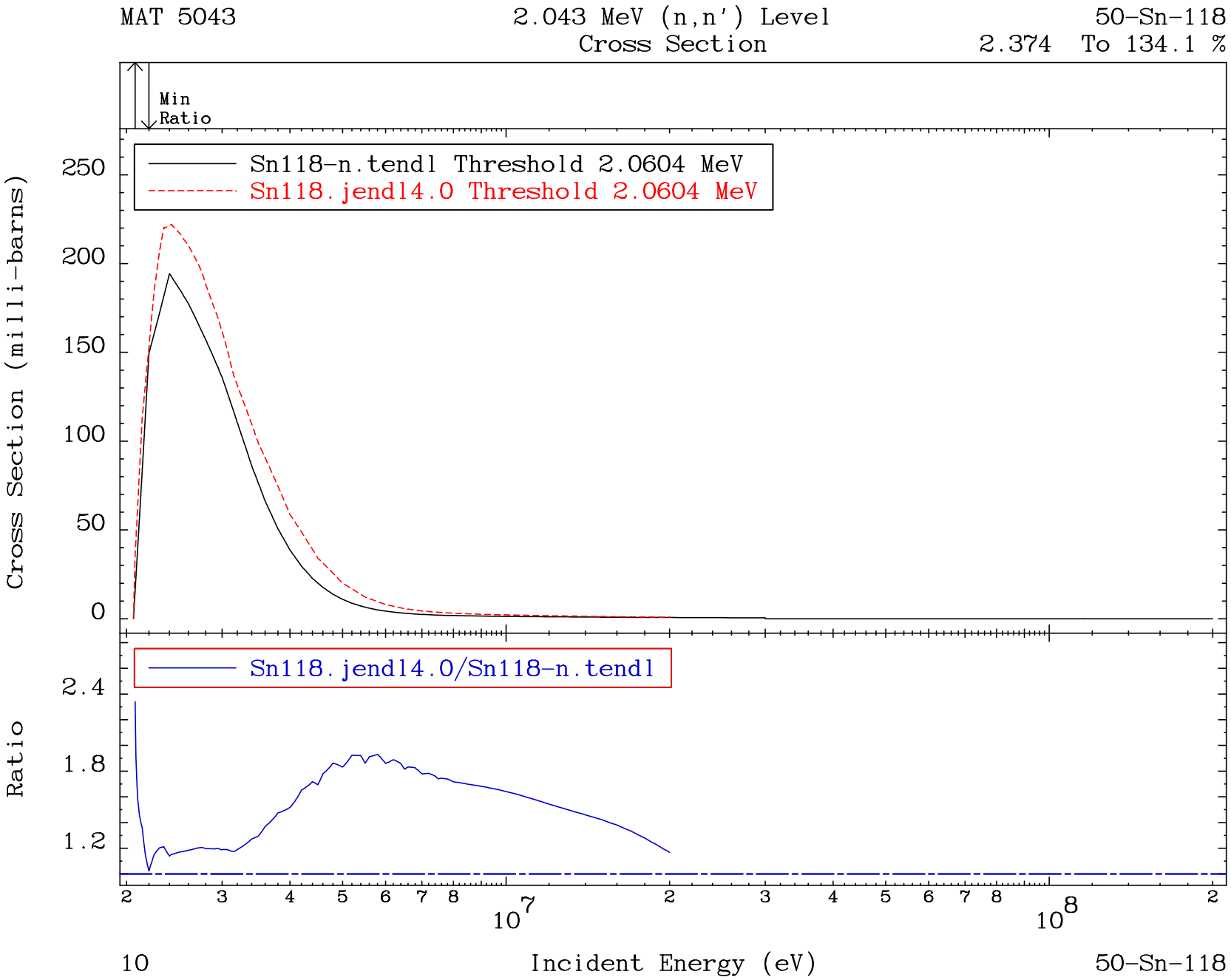

MAT 5043
(n,3n)
Cross Section
50-Sn-118
-66.06 To -7.409%
Max
Ratio
Sn118-n.tendl Threshold 16.409 MeV
Sn118.jendl4.0 Threshold 16.409 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
1.0
0.8
0.6
0.4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
50-Sn-118

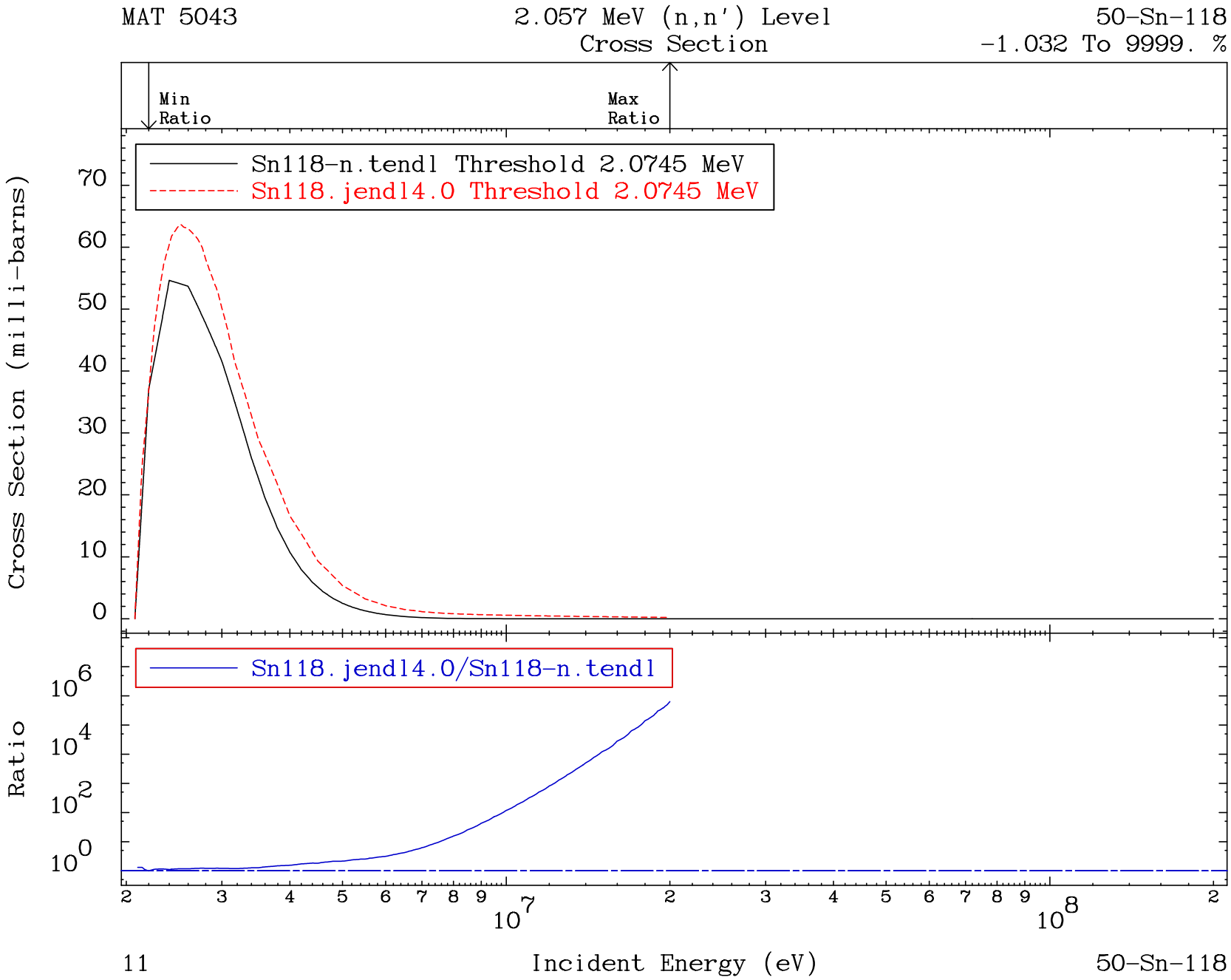

MAT 5043
(n,n') α
Cross Section
50-Sn-118
-100.0 To 5207. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 4.0977 MeV
Sn118.jendl4.0 Threshold 4.0948 MeV
Cross Section (milli-barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
6
50-Sn-118

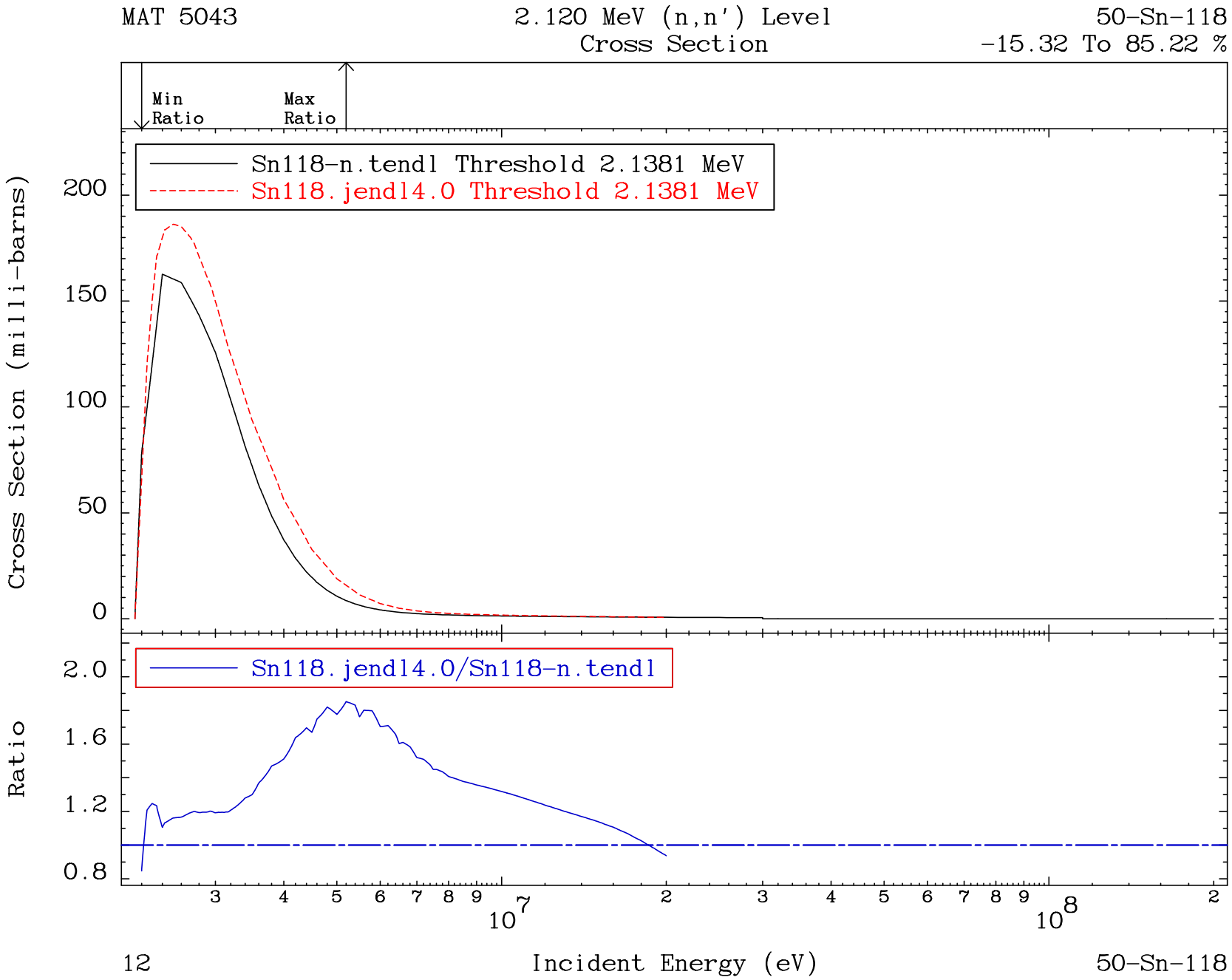

MAT 5043
(n,n') p
Cross Section
50-Sn-118
-99.52 To 513.5 %
Min
Ratio
Sn118-n.tendl Threshold 10.084 MeV
Sn118.jendl4.0 Threshold 10.086 MeV
Cross Section (milli-barns)
80
60
40
20
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^1
10^0
10^-1
10^-2
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
50-Sn-118

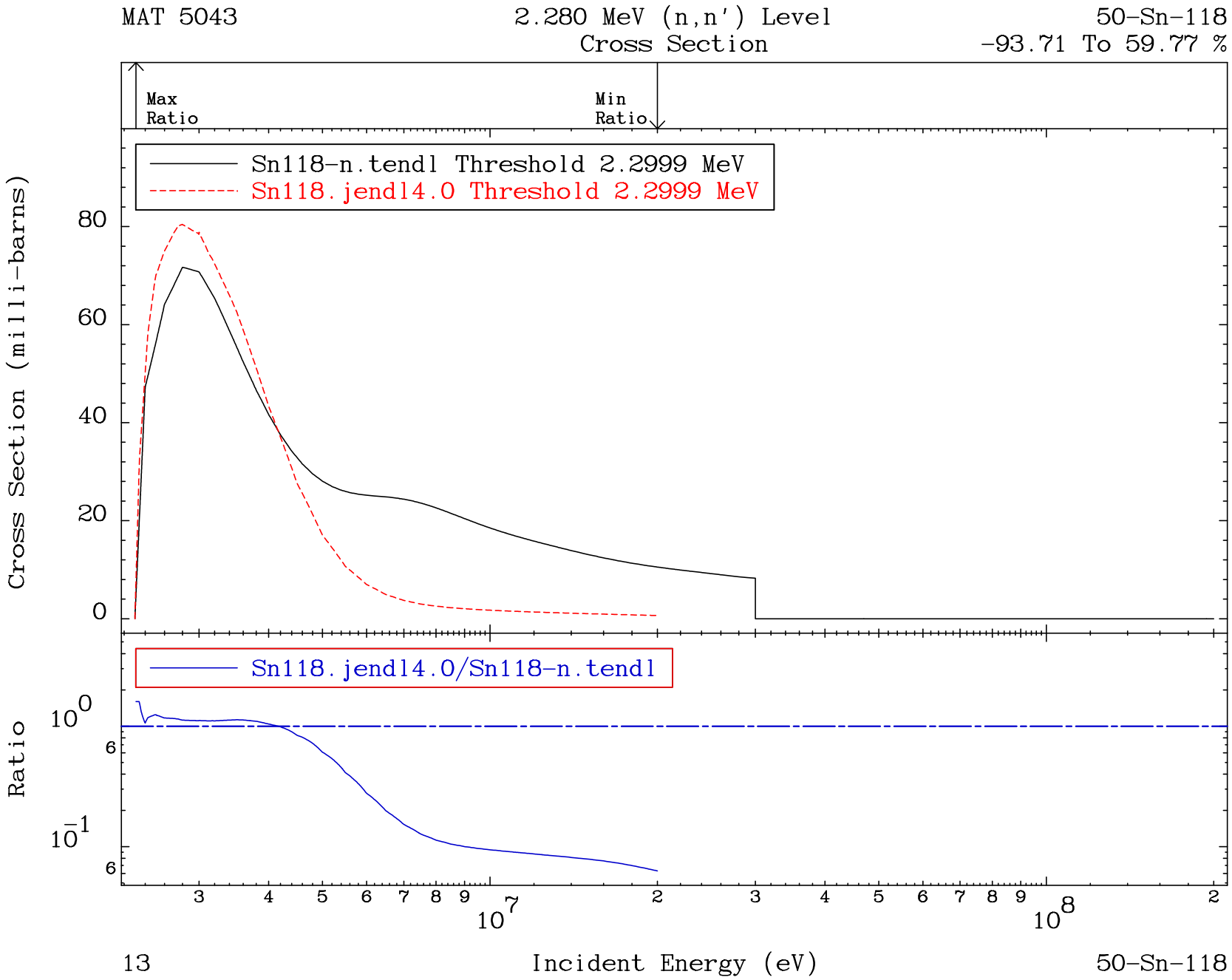

MAT 5043
1.230 MeV (n,n') Level
Cross Section
50-Sn-118
6.355 To 84.65 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 1.2402 MeV
Sn118.jendl4.0 Threshold 1.2402 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
2.0
1.6
1.2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
8
Incident Energy (eV)
50-Sn-118

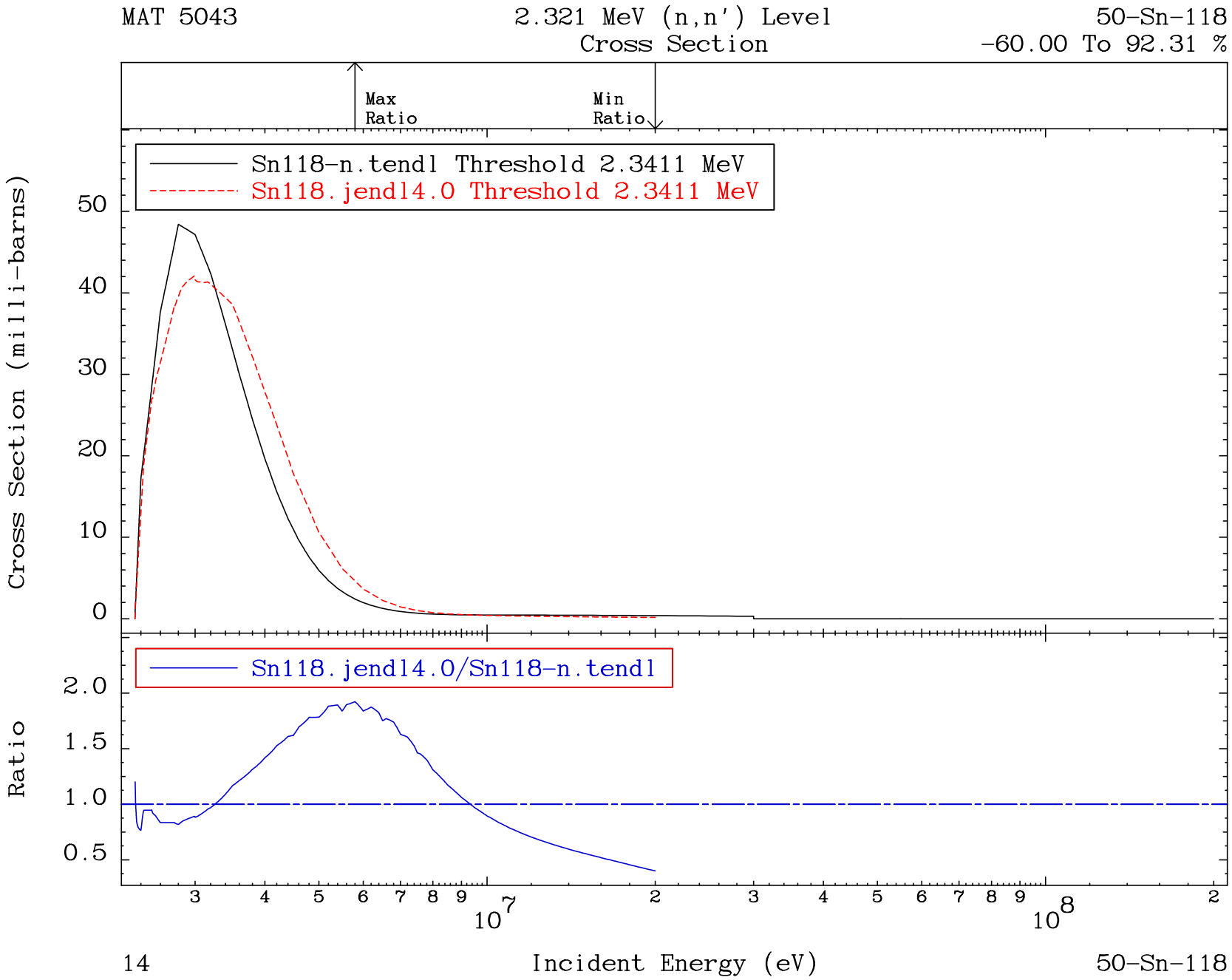

MAT 5043
1.758 MeV (n,n') Level
Cross Section
50-Sn-118
4.473 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 1.7734 MeV
Sn118.jendl4.0 Threshold 1.7734 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^6
10^3
10^0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
50-Sn-118

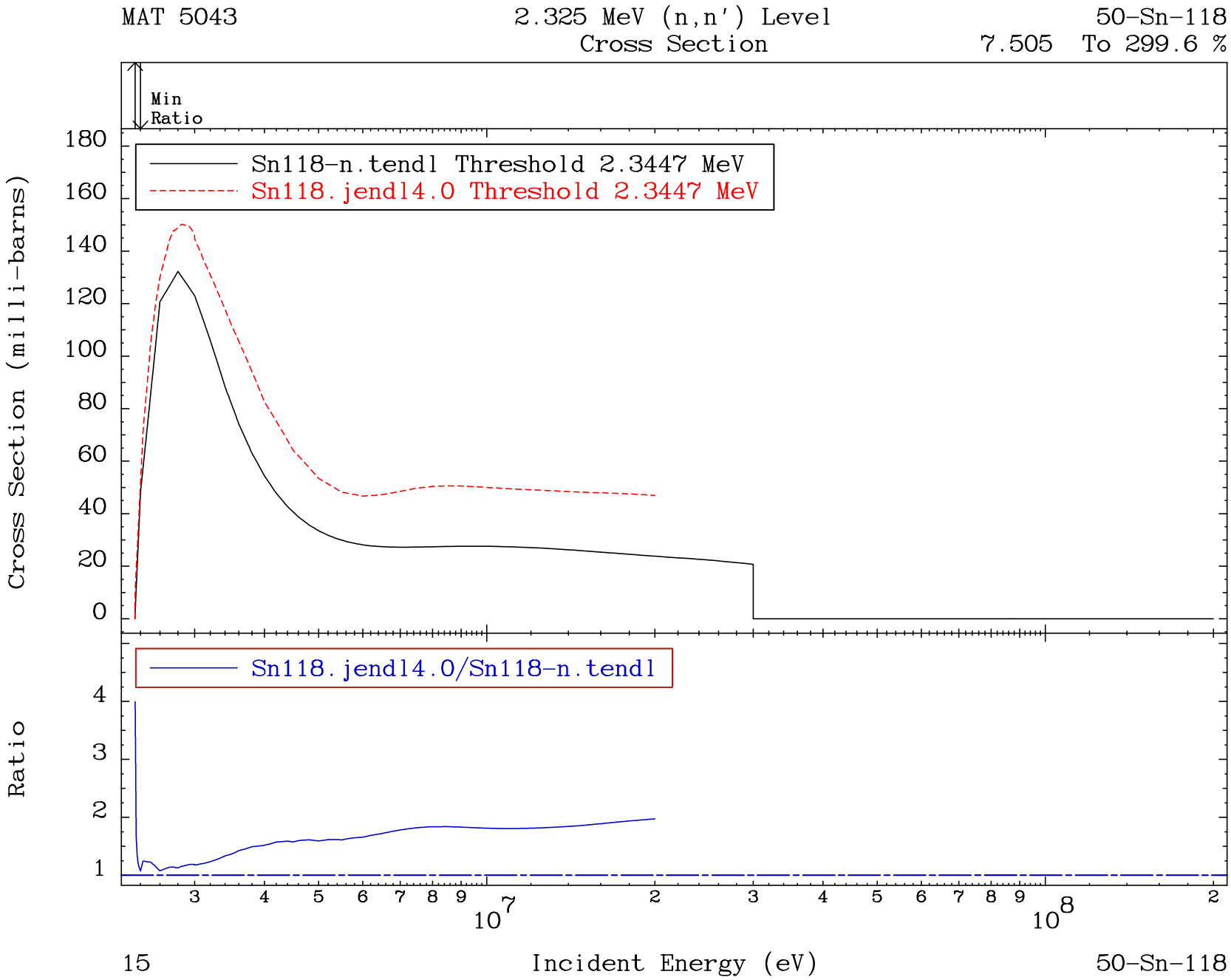

MAT 5043
2.043 MeV (n,n') Level
Cross Section
50-Sn-118
2.374 To 134.1 %
Min
Ratio
Sn118-n.tendl Threshold 2.0604 MeV
Sn118.jendl4.0 Threshold 2.0604 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
2.4
1.8
1.2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
50-Sn-118

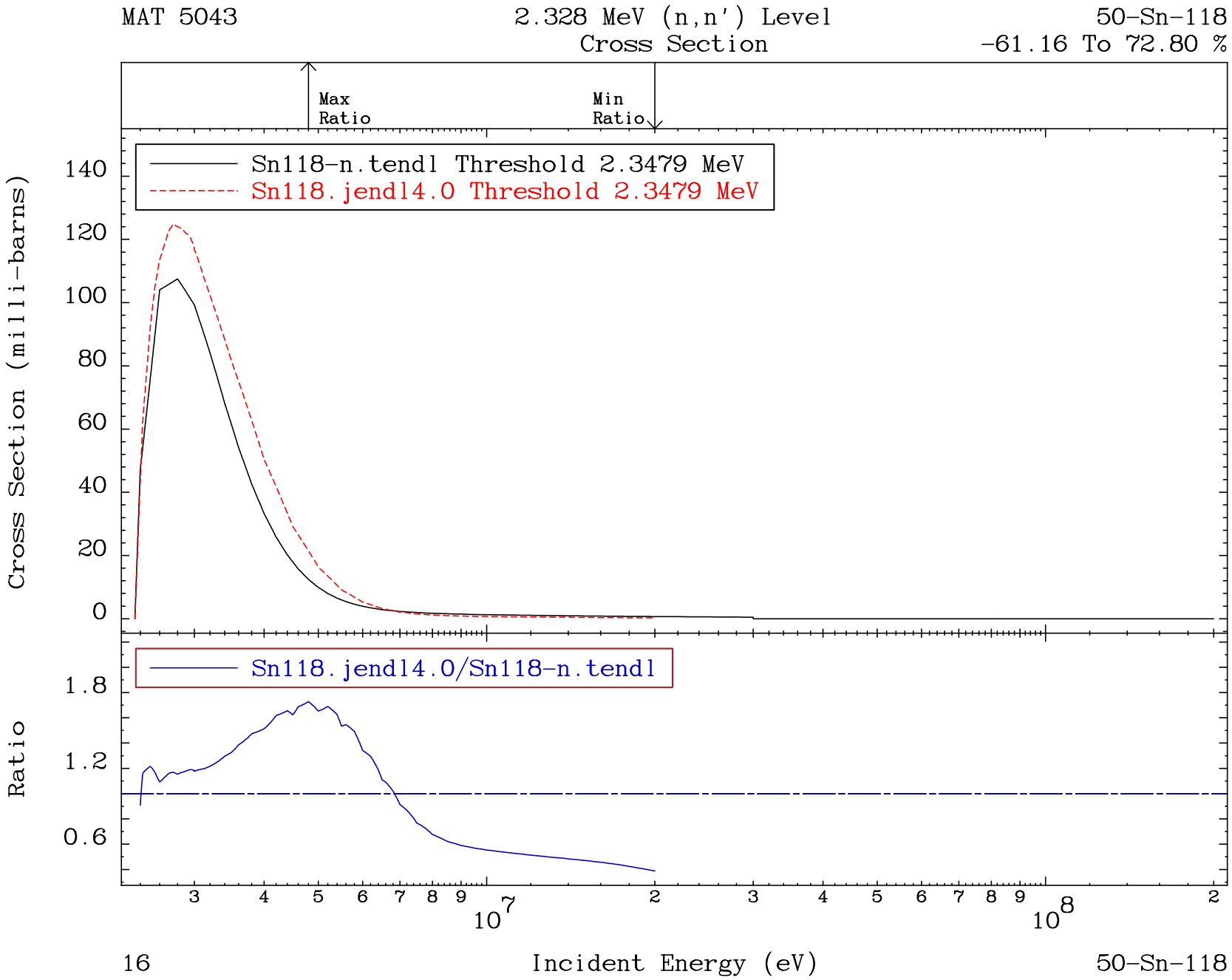

MAT 5043
2.057 MeV (n,n') Level
Cross Section
50-Sn-118
-1.032 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 2.0745 MeV
Sn118.jendl4.0 Threshold 2.0745 MeV
Cross Section (milli-barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
11
50-Sn-118

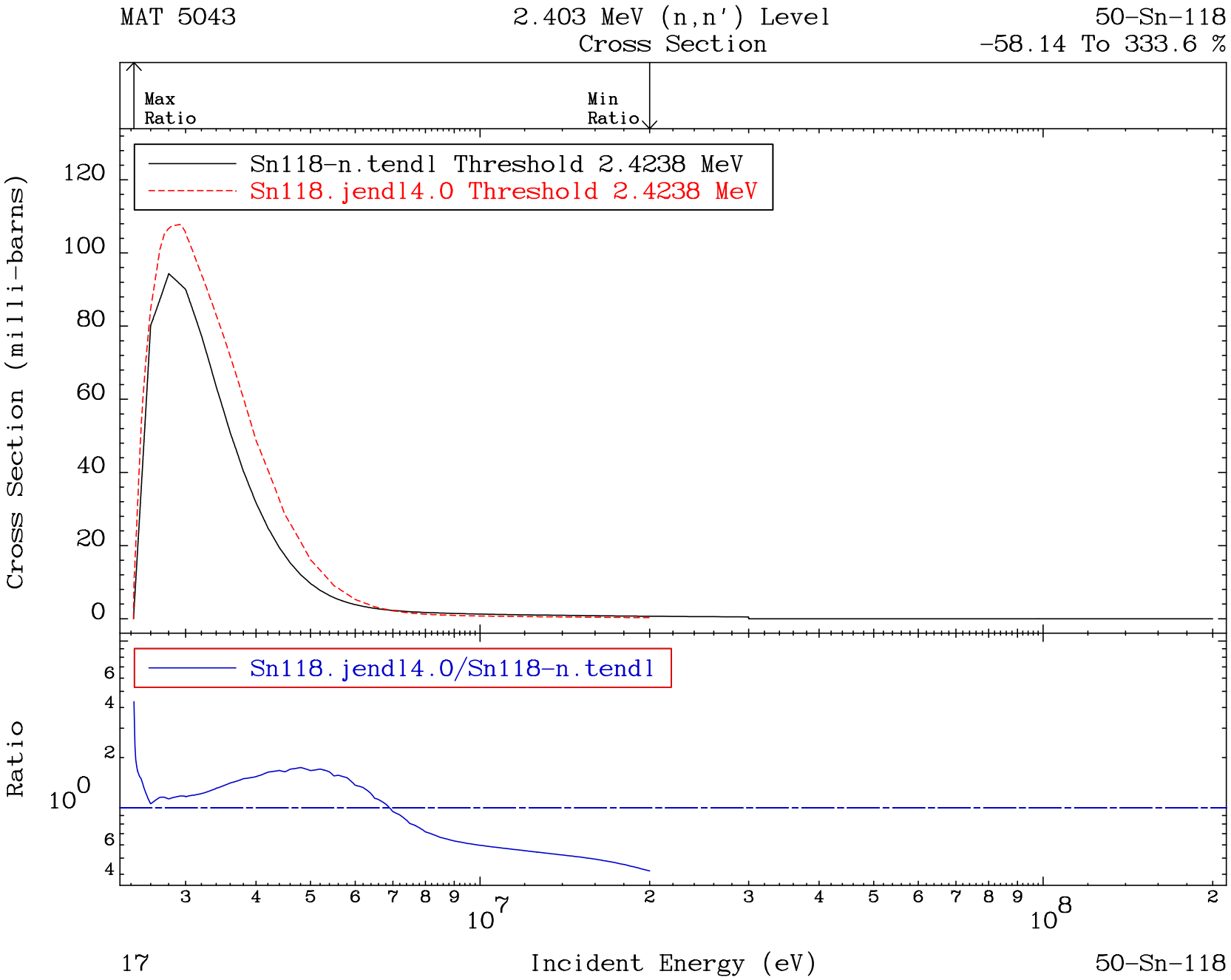

MAT 5043
2.120 MeV (n,n') Level
Cross Section
50-Sn-118
-15.32 To 85.22 %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 2.1381 MeV
Sn118.jendl4.0 Threshold 2.1381 MeV
Cross Section (milli-barns)
200
150
100
50
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
2.0
1.6
1.2
0.8
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
12
Incident Energy (eV)
50-Sn-118

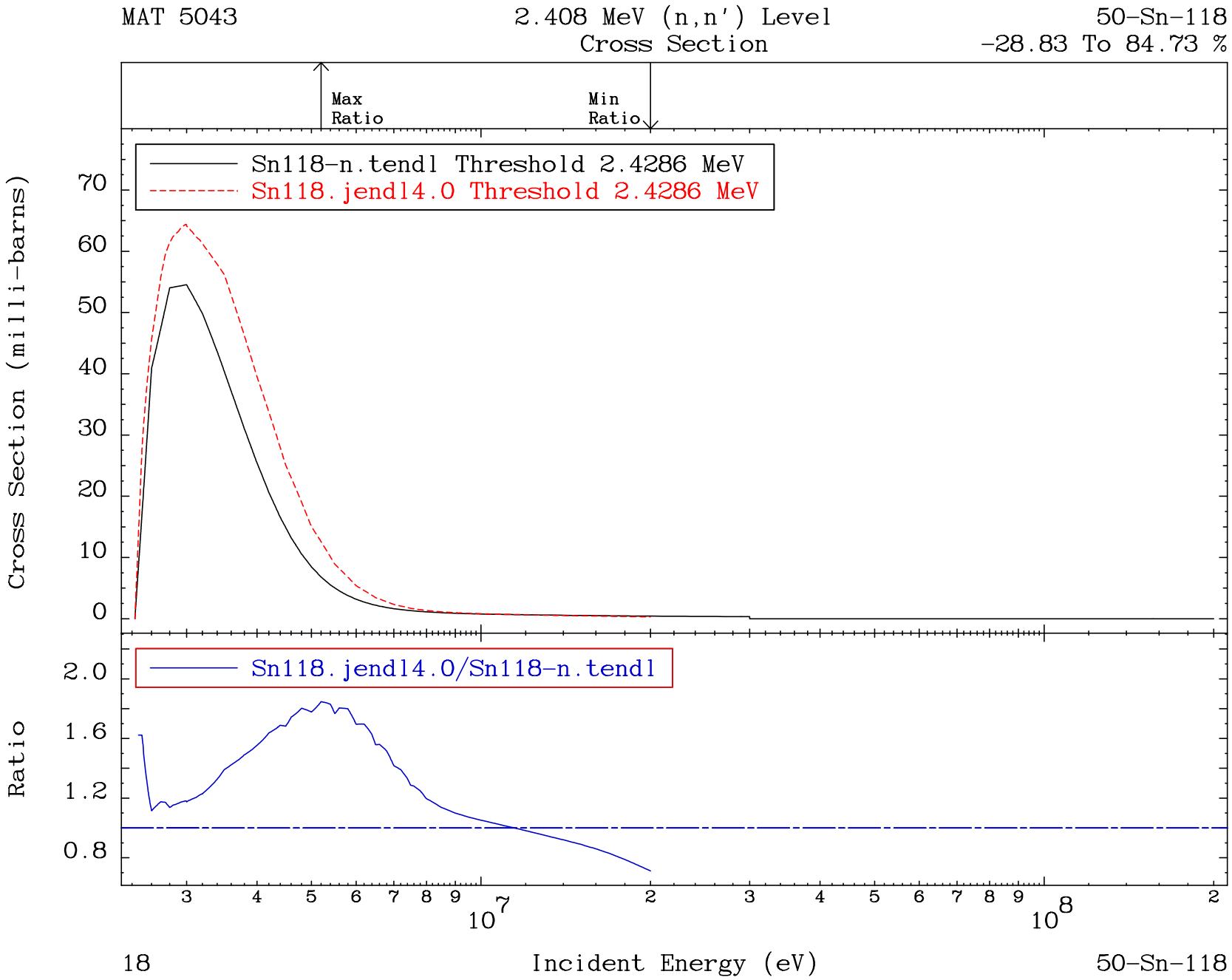

MAT 5043
2.280 MeV (n,n') Level
Cross Section
50-Sn-118
-93.71 To 59.77 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.2999 MeV
Sn118.jendl4.0 Threshold 2.2999 MeV
Cross Section (milli-barns)
80
60
40
20
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^0
6
10^-1
6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
50-Sn-118

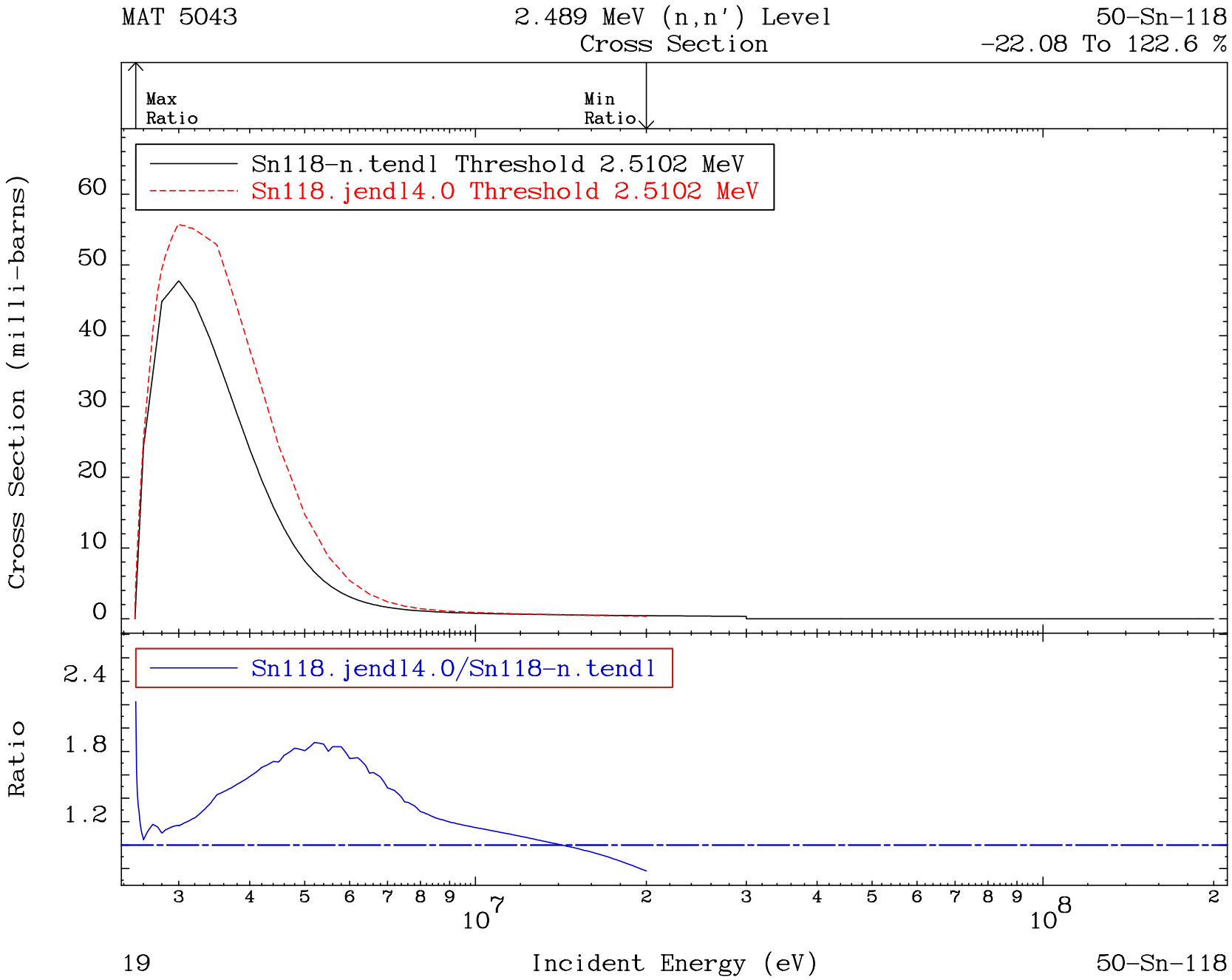

MAT 5043
2.321 MeV (n,n') Level
Cross Section
50-Sn-118
-60.00 To 92.31 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.3411 MeV
Sn118.jendl4.0 Threshold 2.3411 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
2.0
1.5
1.0
0.5
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
50-Sn-118

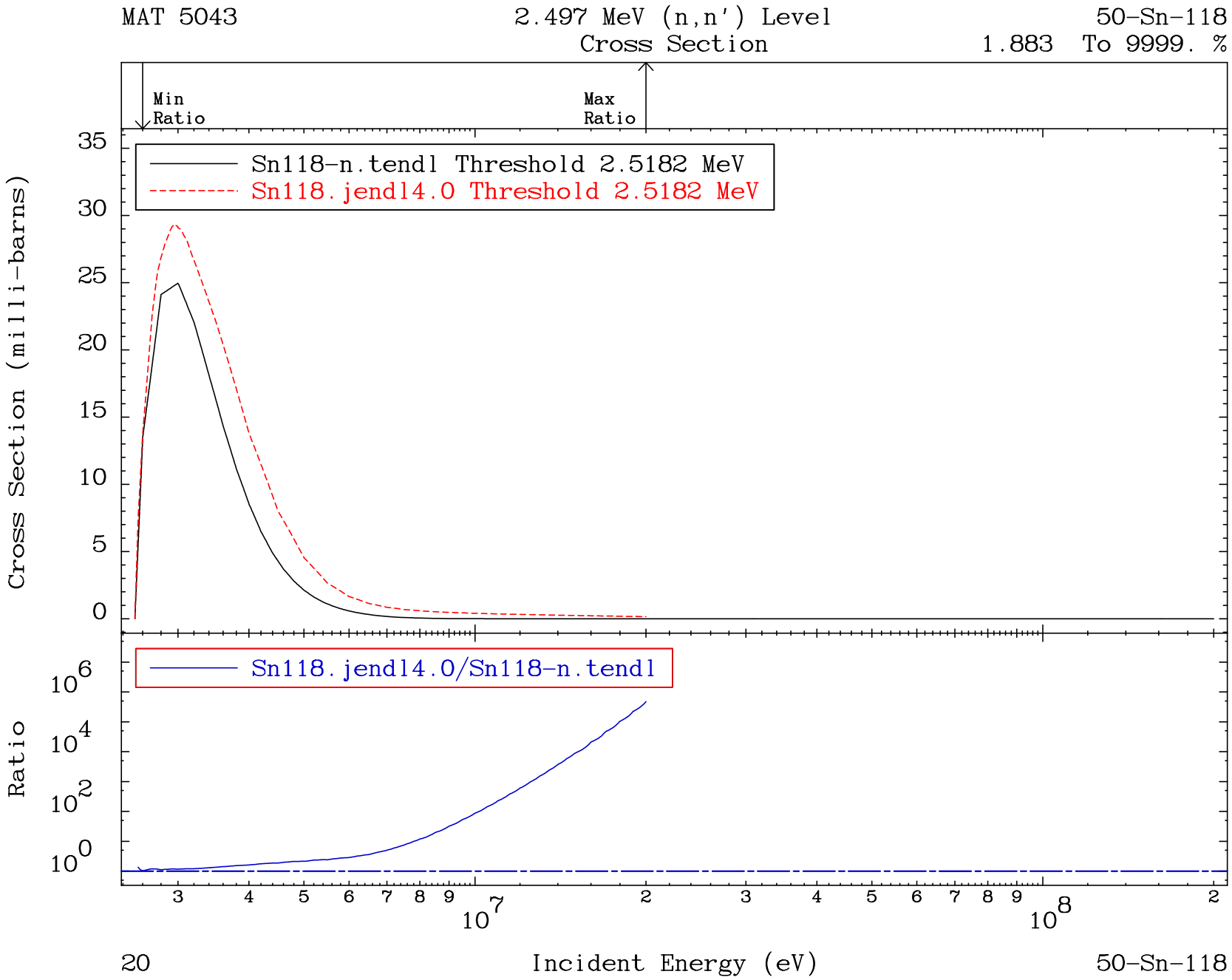

MAT 5043
2.325 MeV (n,n') Level
Cross Section
50-Sn-118
7.505 To 299.6 %
Min
Ratio
Sn118-n.tendl Threshold 2.3447 MeV
Sn118.jendl4.0 Threshold 2.3447 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
4
3
2
1
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
15
Incident Energy (eV)
50-Sn-118

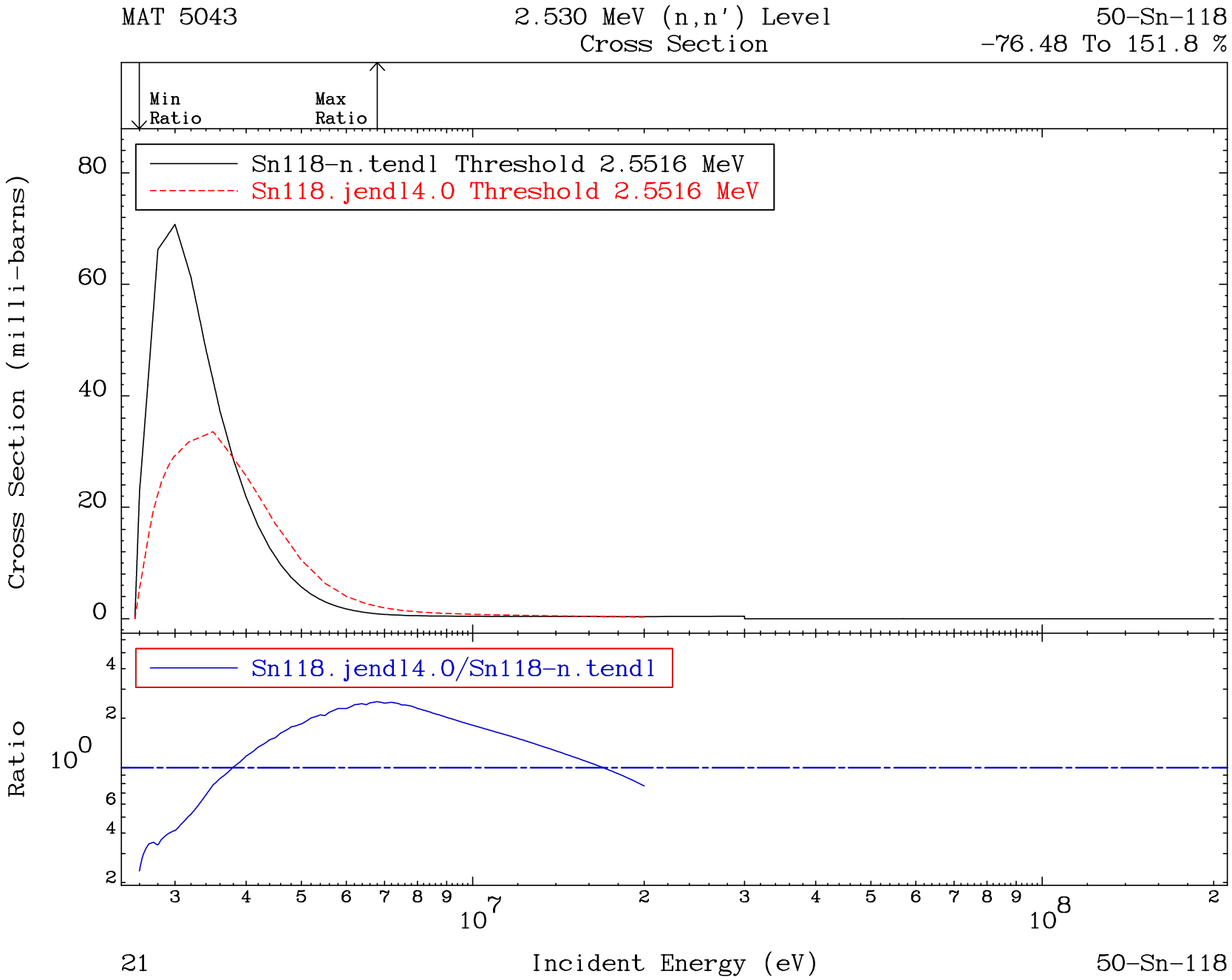

MAT 5043
2.328 MeV (n,n') Level
Cross Section
50-Sn-118
-61.16 To 72.80 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.3479 MeV
Sn118.jendl4.0 Threshold 2.3479 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
1.8
1.2
0.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
50-Sn-118

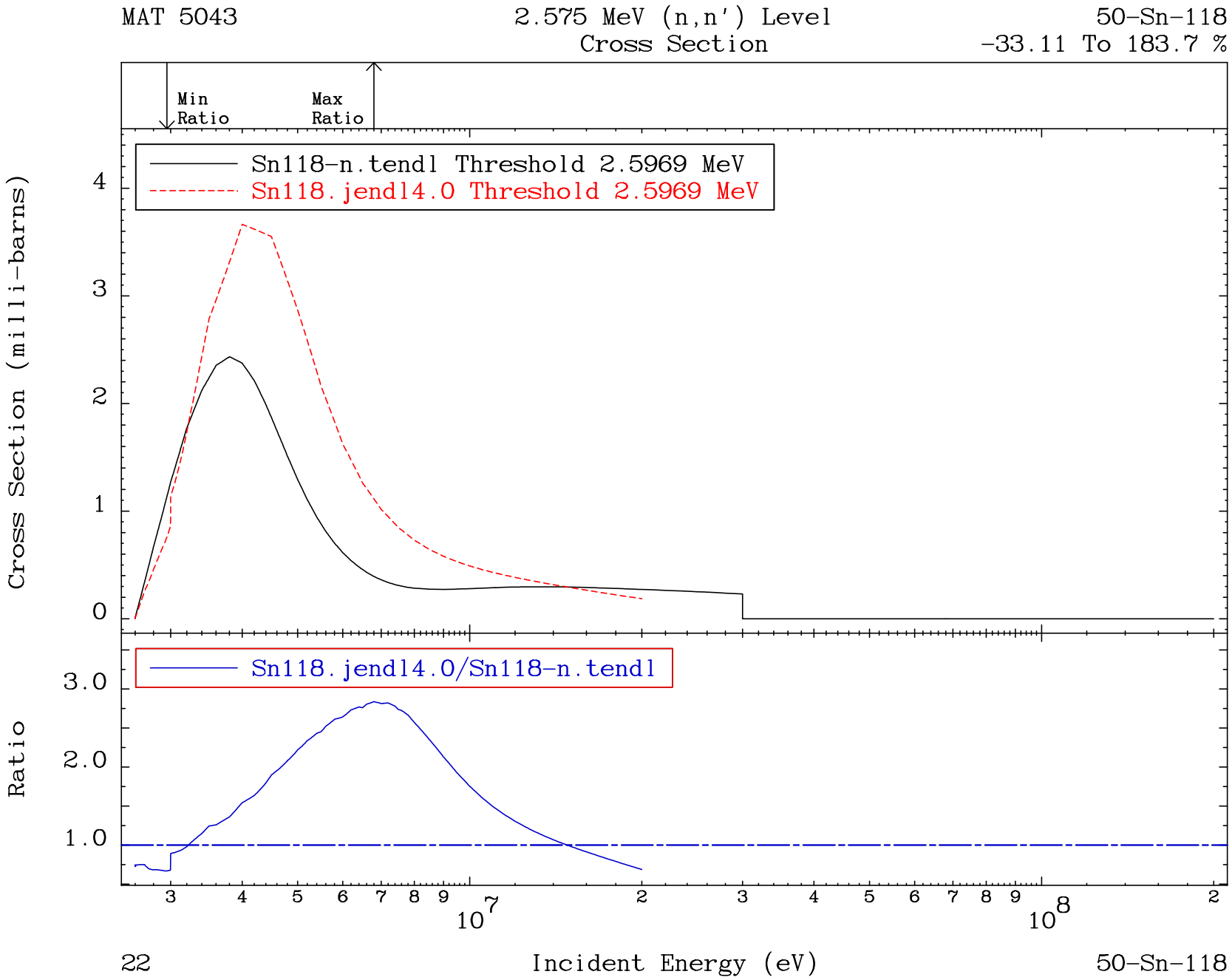

MAT 5043
2.403 MeV (n,n') Level
Cross Section
50-Sn-118
-58.14 To 333.6 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.4238 MeV
Sn118.jendl4.0 Threshold 2.4238 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
6
4
2
10^0
6
4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
50-Sn-118

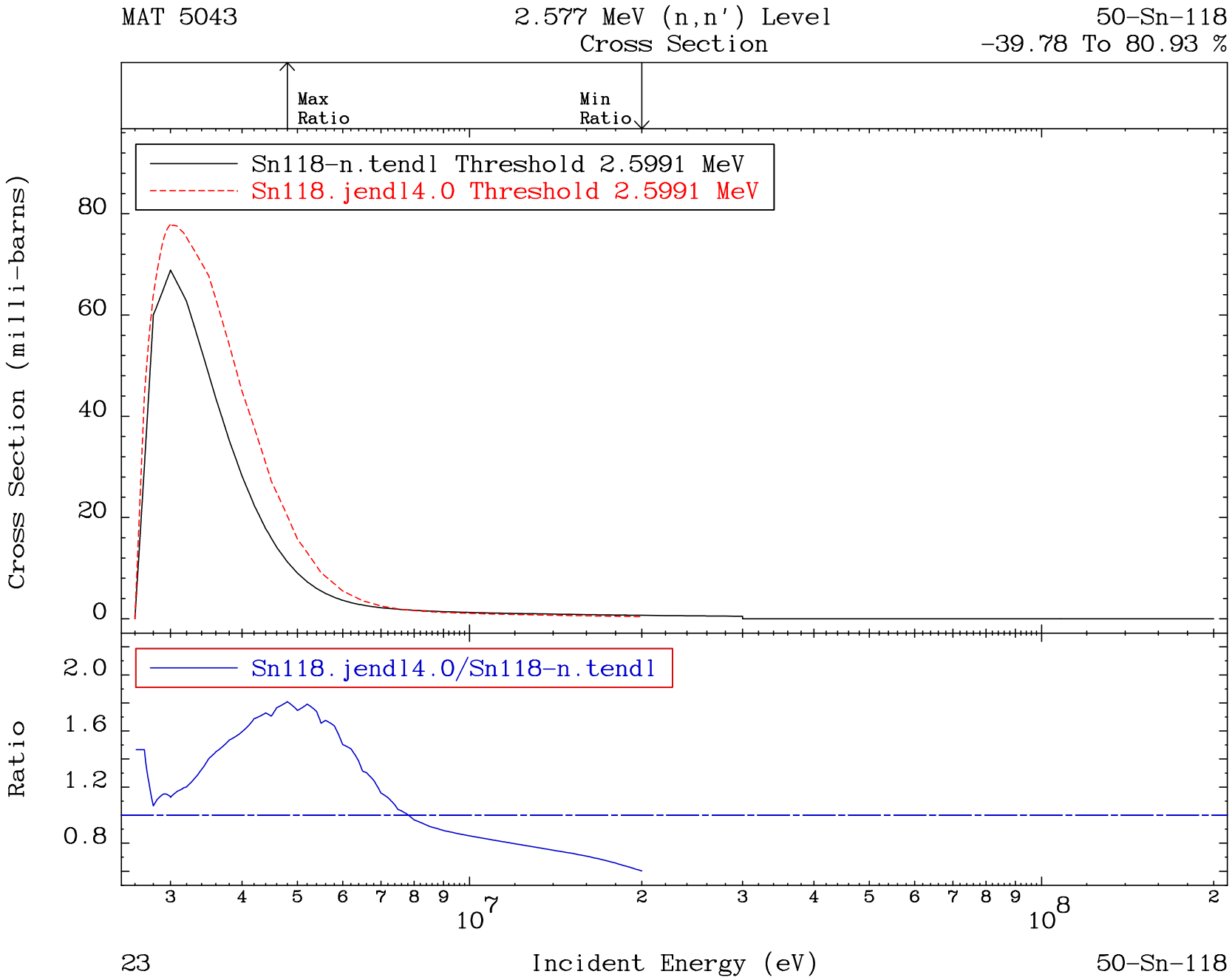

MAT 5043
2.408 MeV (n,n') Level
Cross Section
50-Sn-118
-28.83 To 84.73 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.4286 MeV
Sn118.jendl4.0 Threshold 2.4286 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
2.0
1.6
1.2
0.8
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
18
Incident Energy (eV)
50-Sn-118

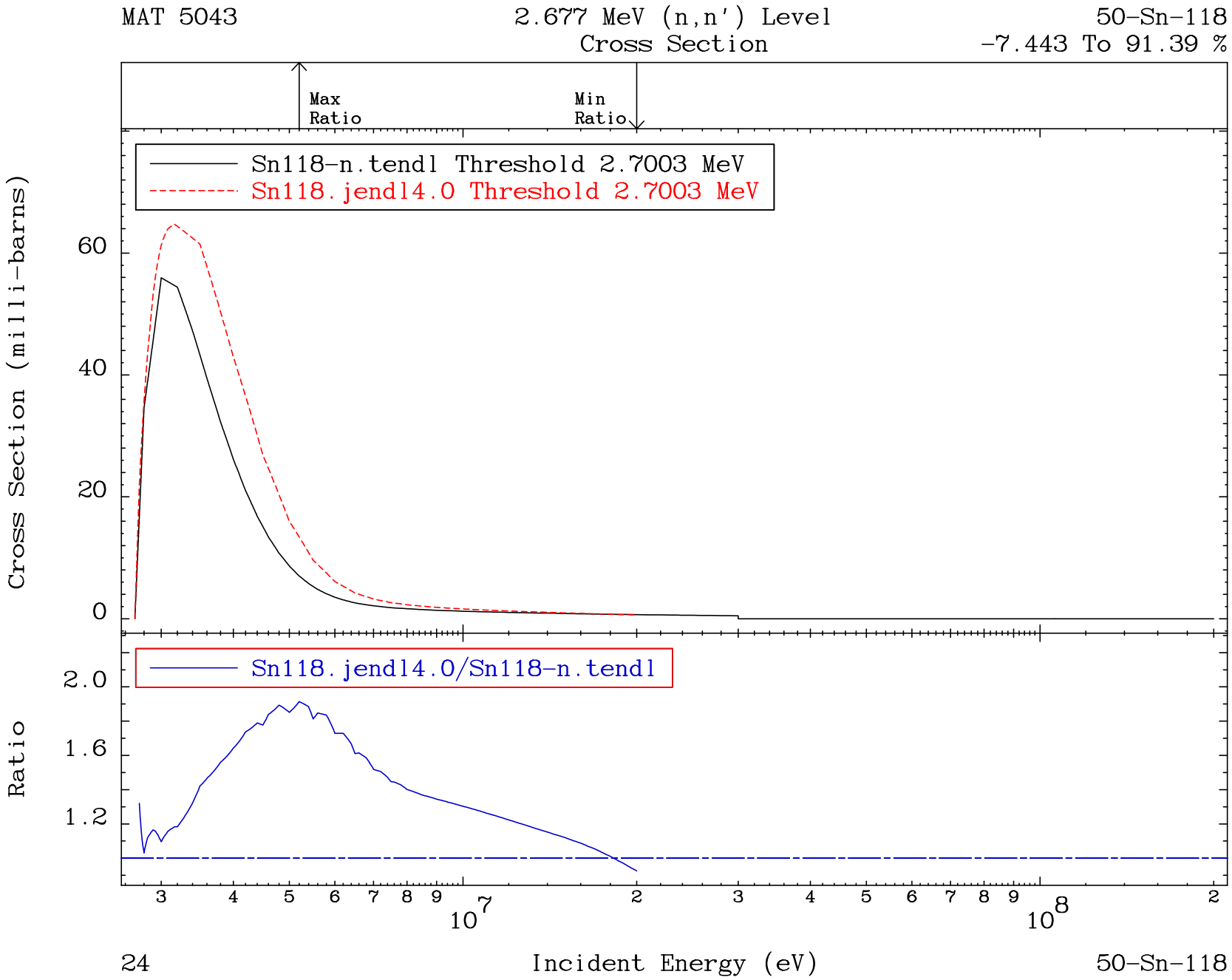

MAT 5043
2.489 MeV (n,n') Level
Cross Section
50-Sn-118
-22.08 To 122.6 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.5102 MeV
Sn118.jendl4.0 Threshold 2.5102 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
2.4
1.8
1.2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
50-Sn-118

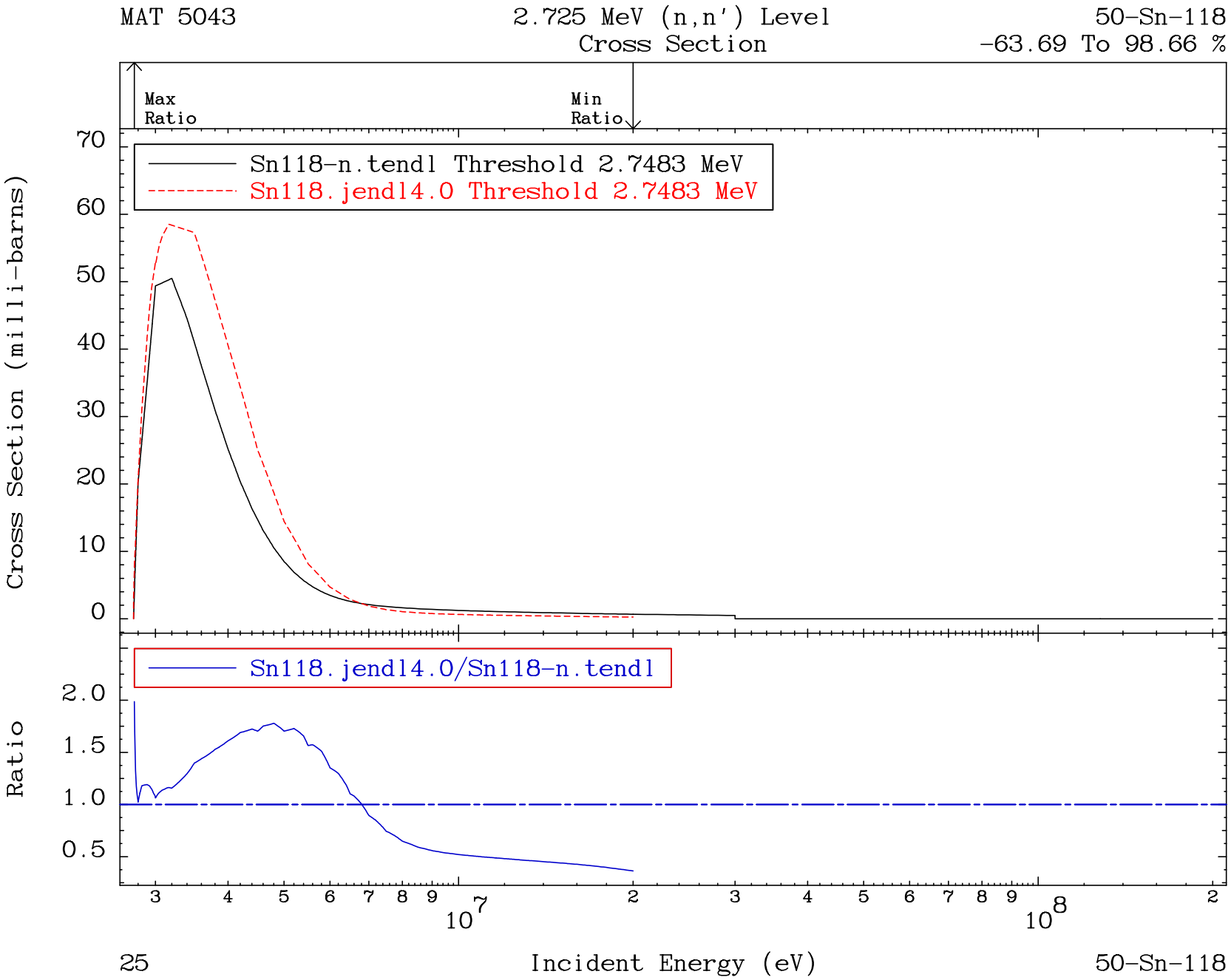

MAT 5043
2.497 MeV (n,n') Level
Cross Section
50-Sn-118
1.883 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 2.5182 MeV
Sn118.jendl4.0 Threshold 2.5182 MeV
Cross Section (milli-barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
20
50-Sn-118

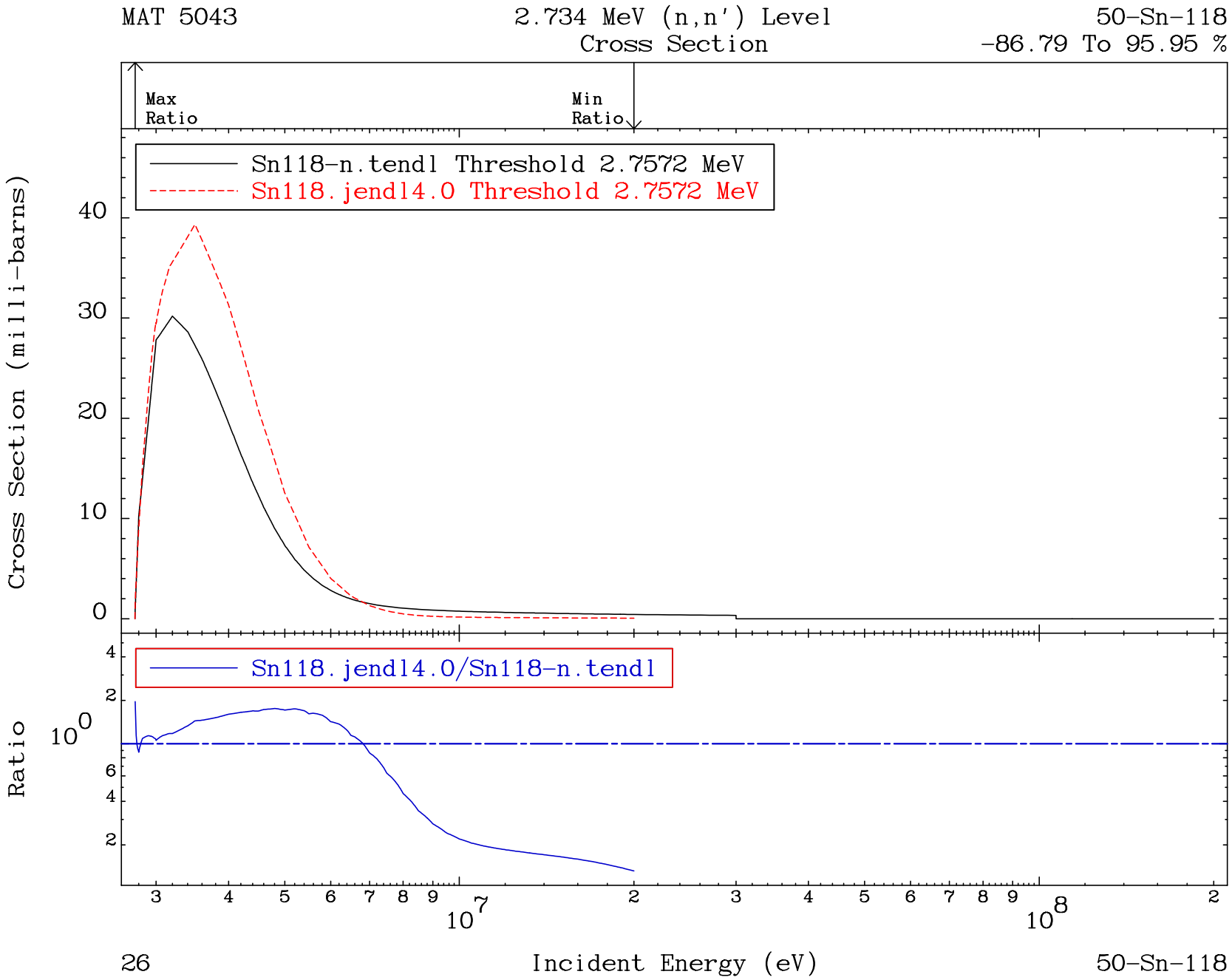

MAT 5043
2.530 MeV (n,n') Level
Cross Section
50-Sn-118
-76.48 To 151.8 %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 2.5516 MeV
Sn118.jendl4.0 Threshold 2.5516 MeV
Cross Section (milli-barns)
80
60
40
20
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
4
2
10^0
6
4
2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
50-Sn-118

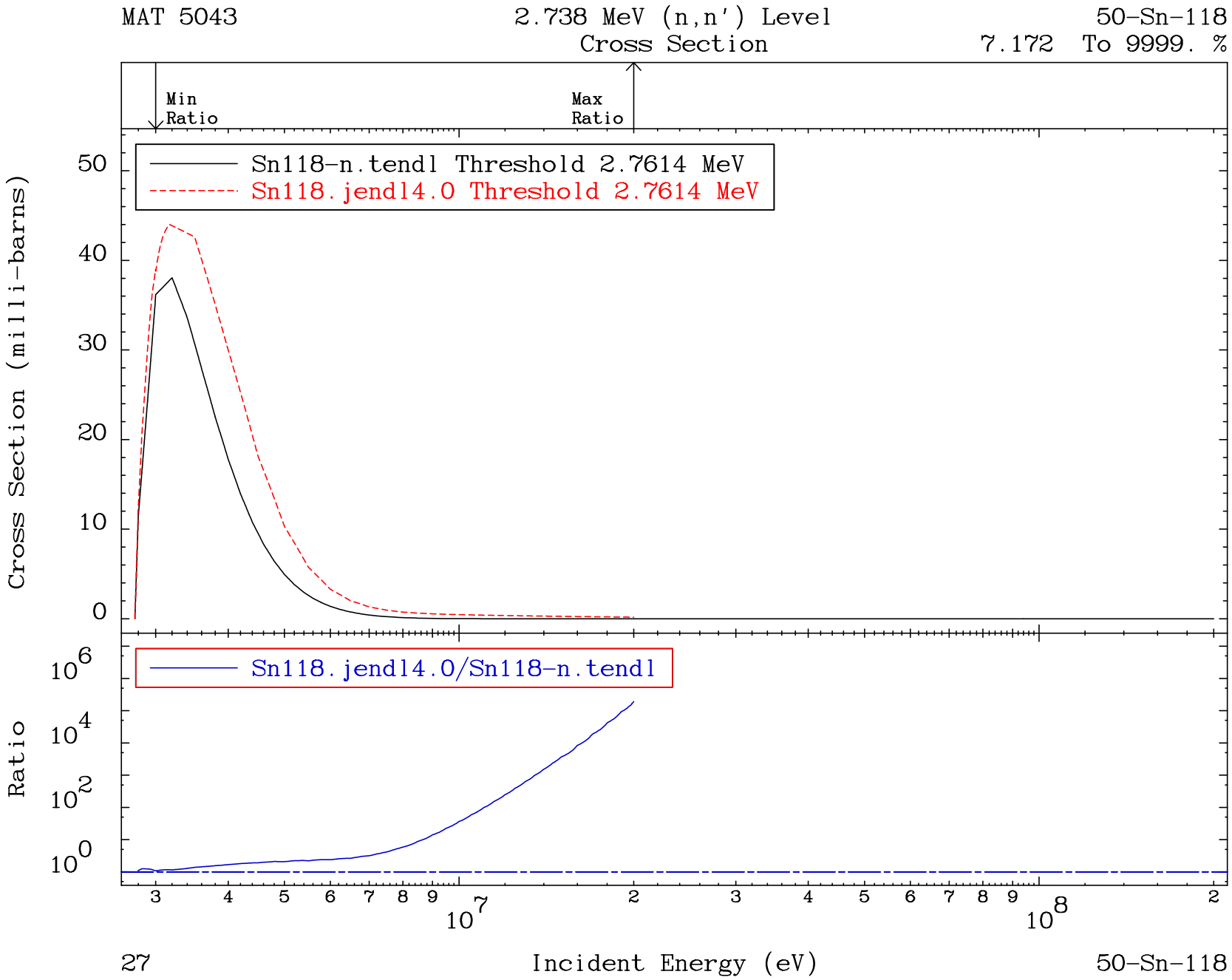

MAT 5043
2.575 MeV (n,n') Level
Cross Section
50-Sn-118
-33.11 To 183.7 %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 2.5969 MeV
Sn118.jendl4.0 Threshold 2.5969 MeV
Cross Section (milli-barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
22
50-Sn-118

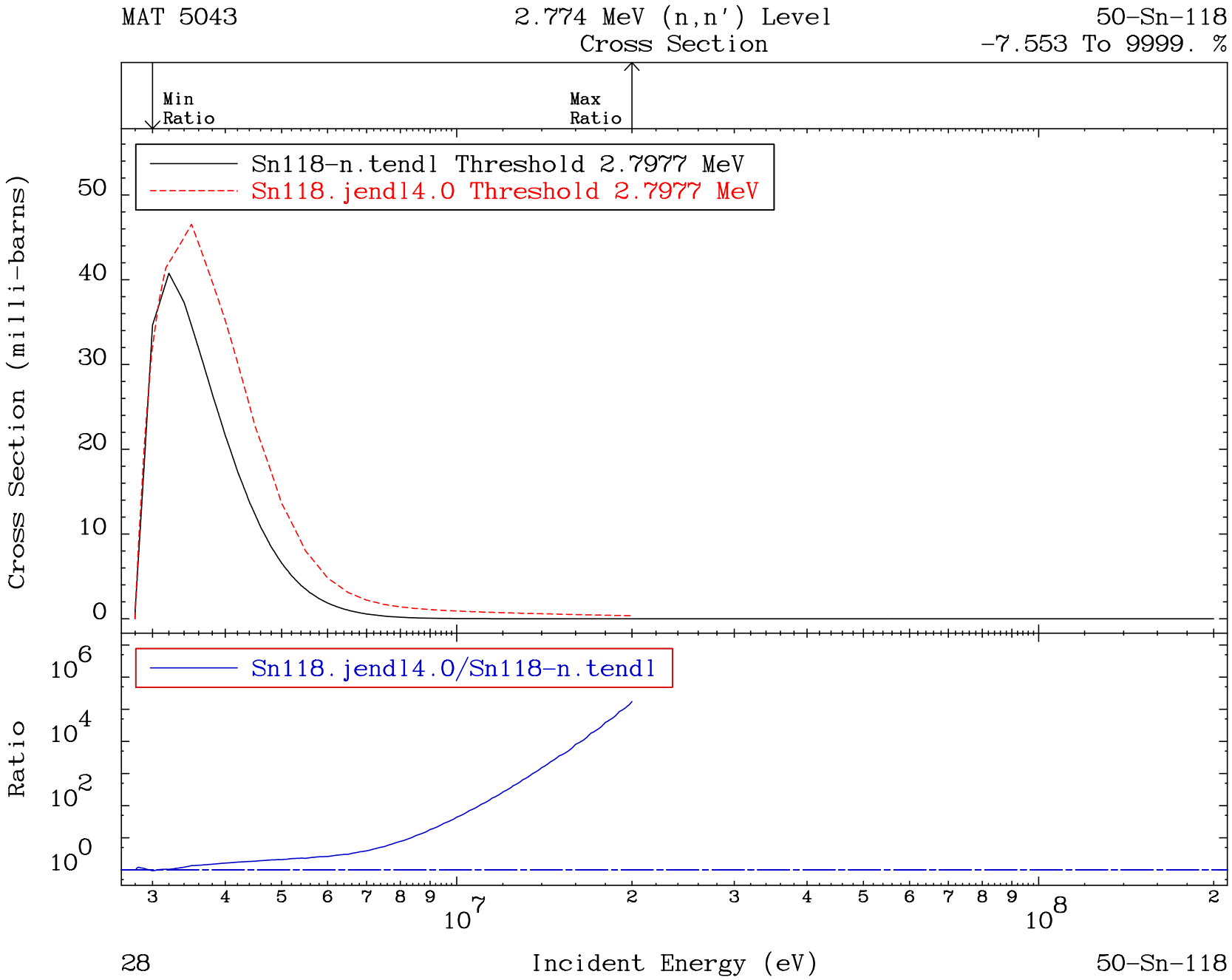

MAT 5043
2.577 MeV (n,n') Level
Cross Section
50-Sn-118
-39.78 To 80.93 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.5991 MeV
Sn118.jendl4.0 Threshold 2.5991 MeV
Cross Section (milli-barns)
80
60
40
20
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
2.0
1.6
1.2
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
50-Sn-118

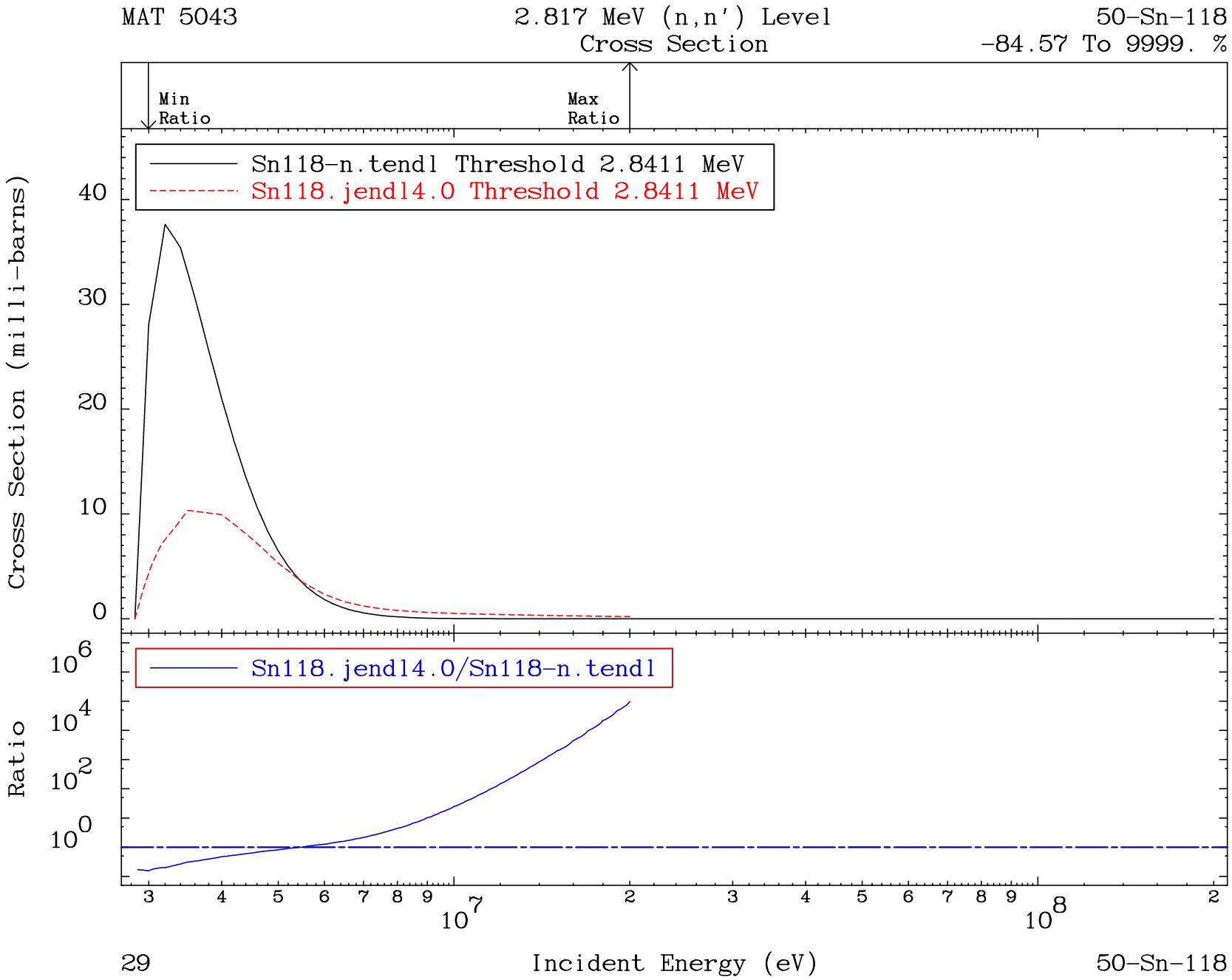

MAT 5043
2.677 MeV (n,n') Level
Cross Section
50-Sn-118
-7.443 To 91.39 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.7003 MeV
Sn118.jendl4.0 Threshold 2.7003 MeV
Cross Section (milli-barns)
60
40
20
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
2.0
1.6
1.2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
50-Sn-118

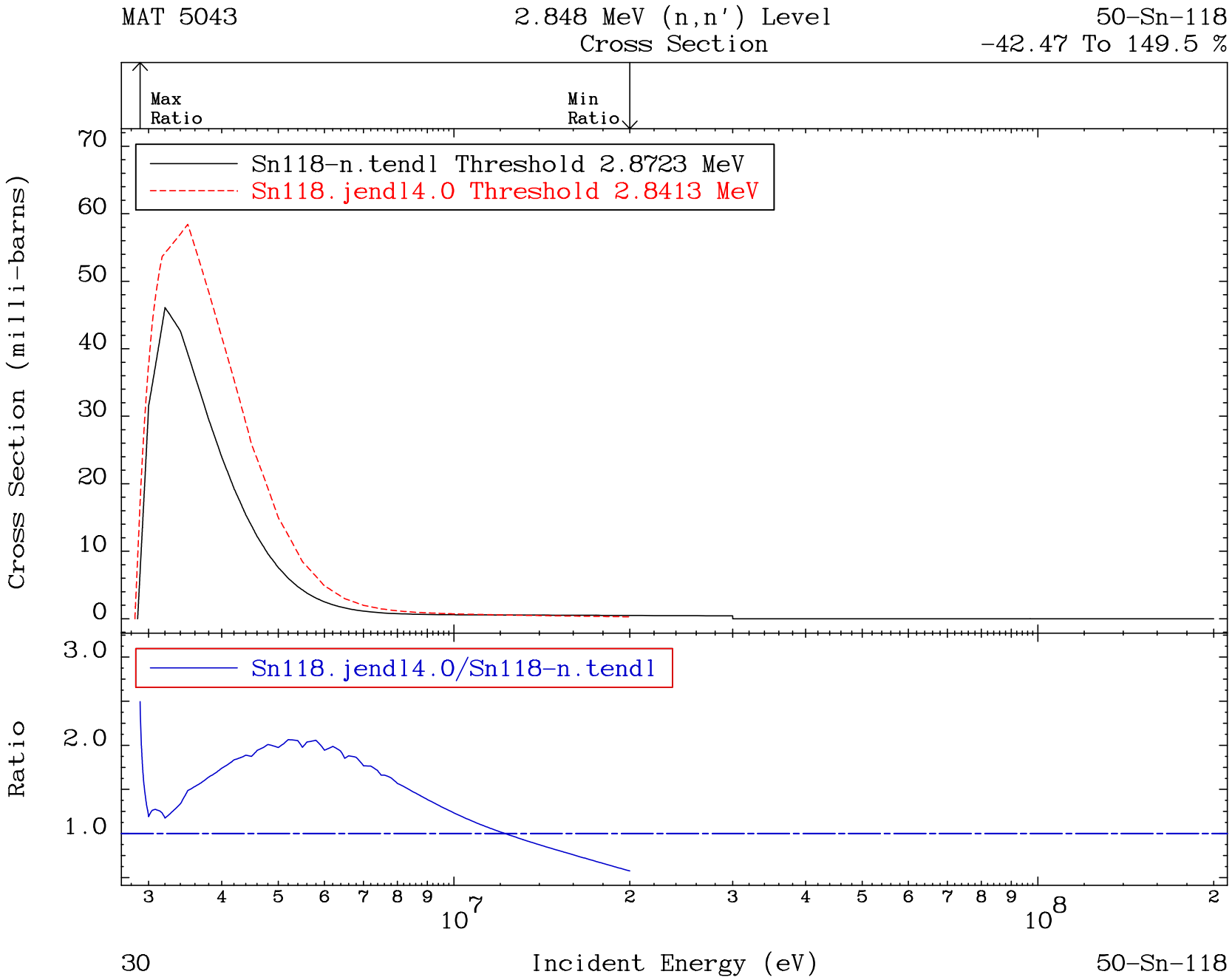

MAT 5043
2.725 MeV (n,n') Level
Cross Section
50-Sn-118
-63.69 To 98.66 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.7483 MeV
Sn118.jendl4.0 Threshold 2.7483 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
2.0
1.5
1.0
0.5
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
50-Sn-118

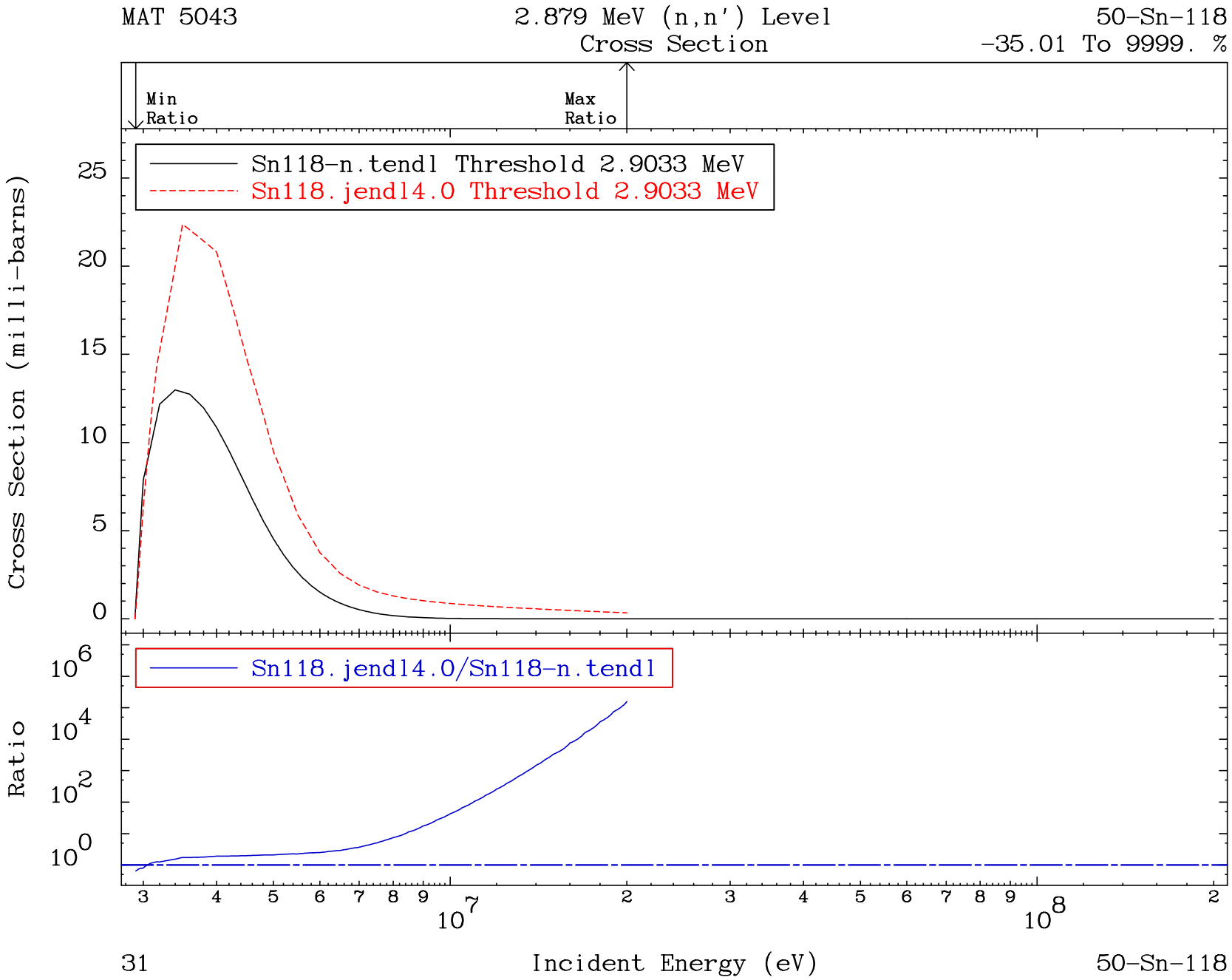

MAT 5043
2.734 MeV (n,n') Level
Cross Section
50-Sn-118
-86.79 To 95.95 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.7572 MeV
Sn118.jendl4.0 Threshold 2.7572 MeV
Cross Section (milli-barns)
40
30
20
10
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
4
2
10^0
6
4
2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
50-Sn-118

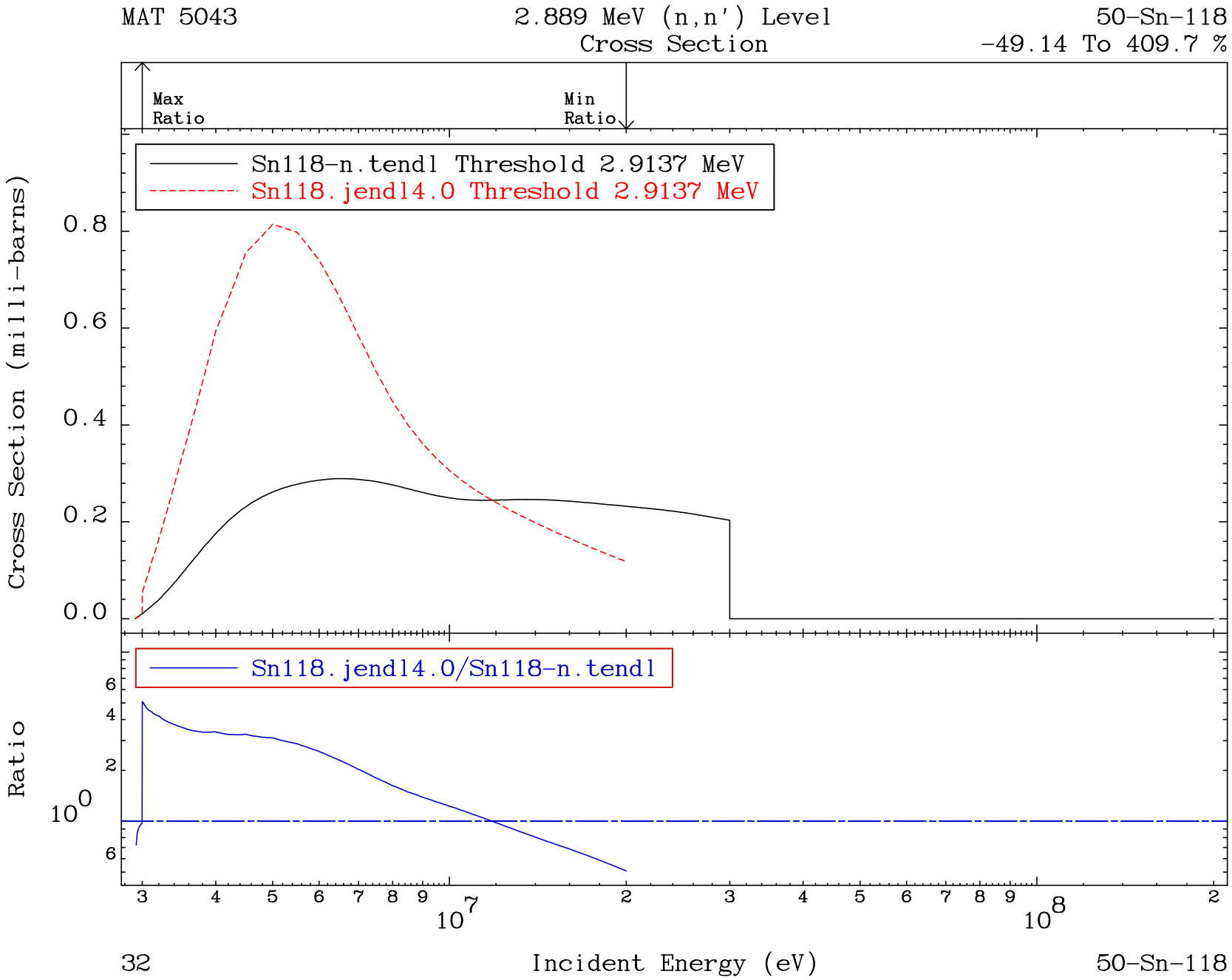

MAT 5043
2.738 MeV (n,n') Level
Cross Section
50-Sn-118
7.172 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 2.7614 MeV
Sn118.jendl4.0 Threshold 2.7614 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
50-Sn-118

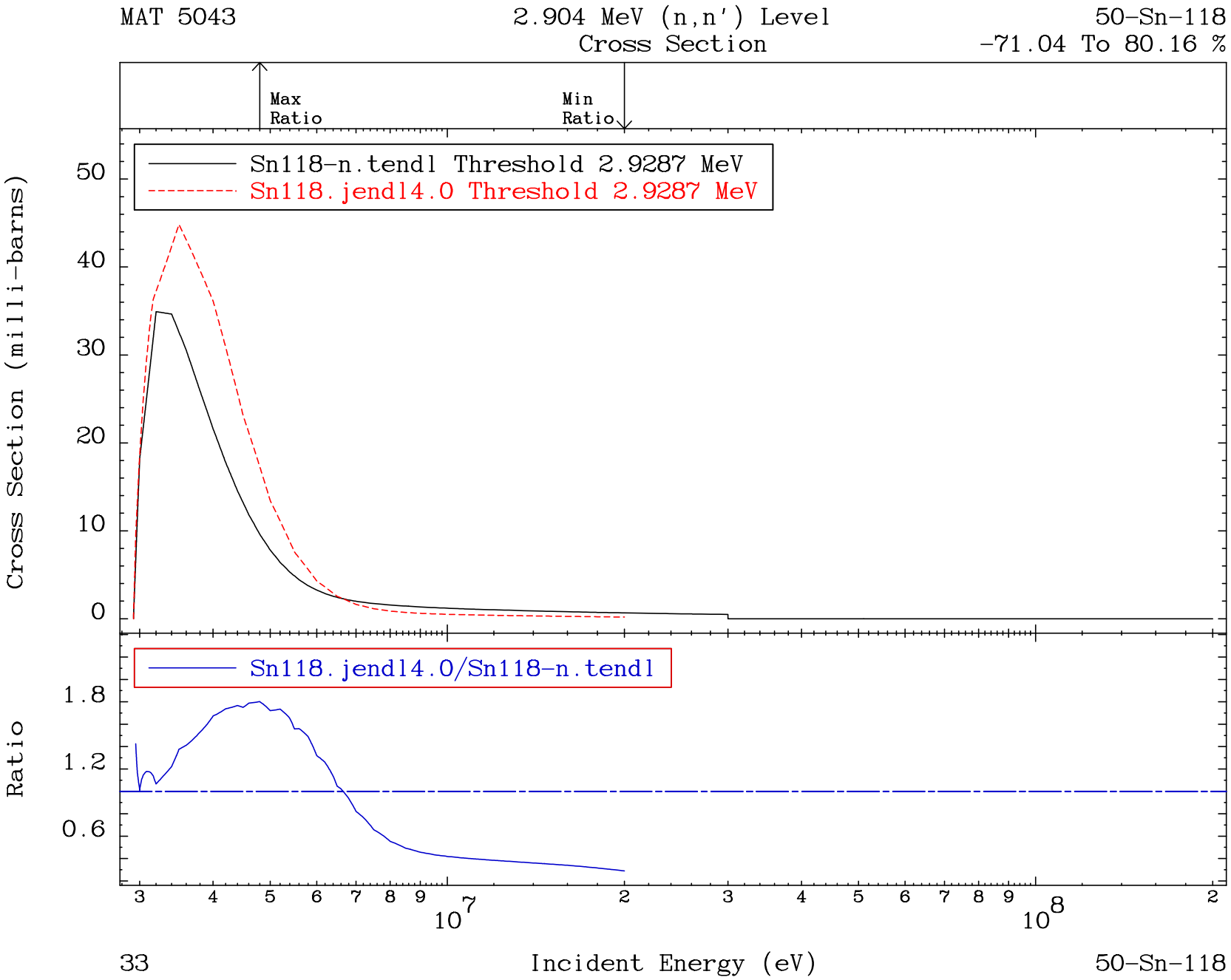

MAT 5043
2.774 MeV (n,n') Level
Cross Section
50-Sn-118
-7.553 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 2.7977 MeV
Sn118.jendl4.0 Threshold 2.7977 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
50-Sn-118

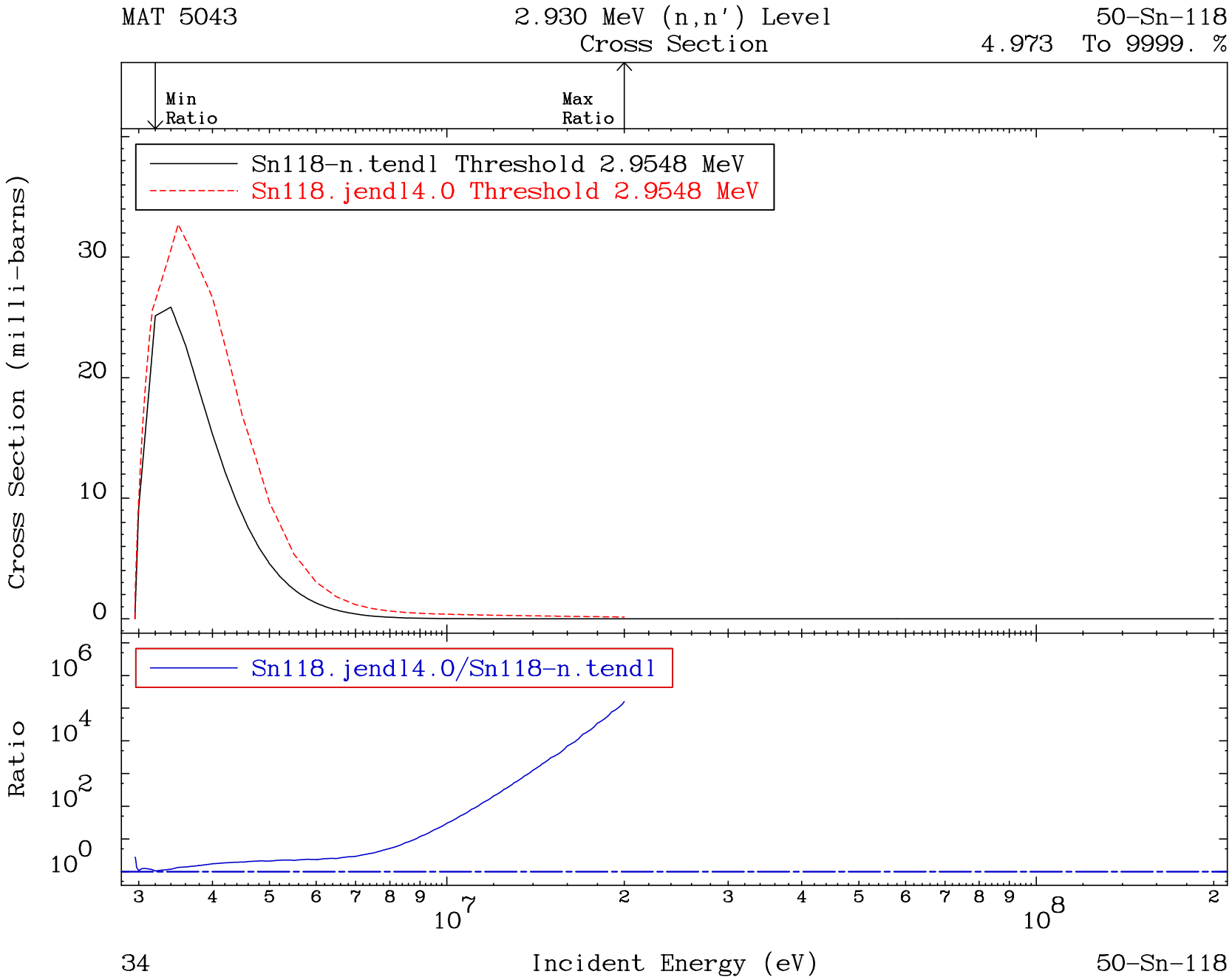

MAT 5043
2.817 MeV (n,n') Level
Cross Section
50-Sn-118
-84.57 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 2.8411 MeV
Sn118.jendl4.0 Threshold 2.8411 MeV
Cross Section (milli-barns)
40
30
20
10
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
50-Sn-118

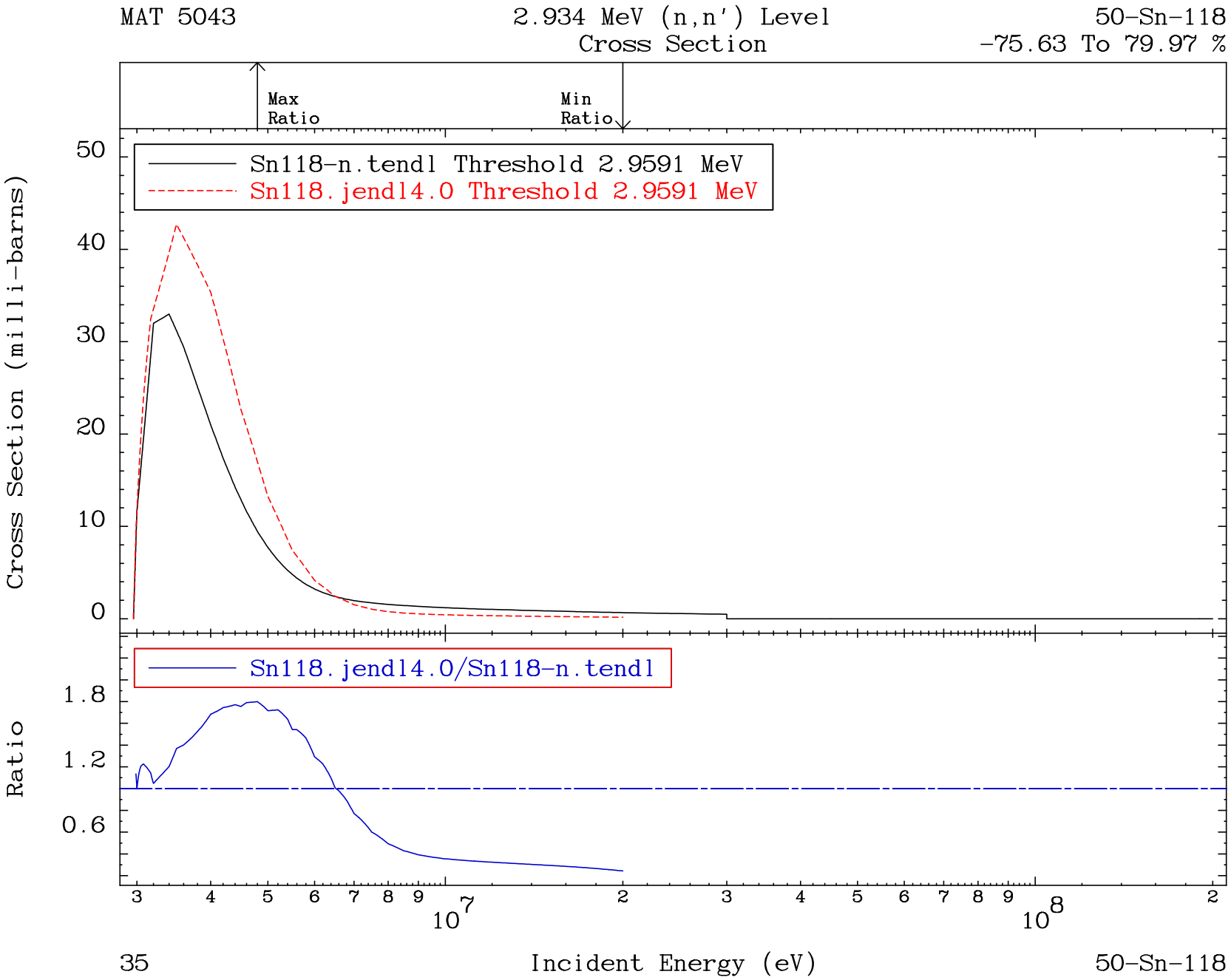

MAT 5043
2.848 MeV (n,n') Level
Cross Section
50-Sn-118
-42.47 To 149.5 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.8723 MeV
Sn118.jendl4.0 Threshold 2.8413 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
3.0
2.0
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
50-Sn-118

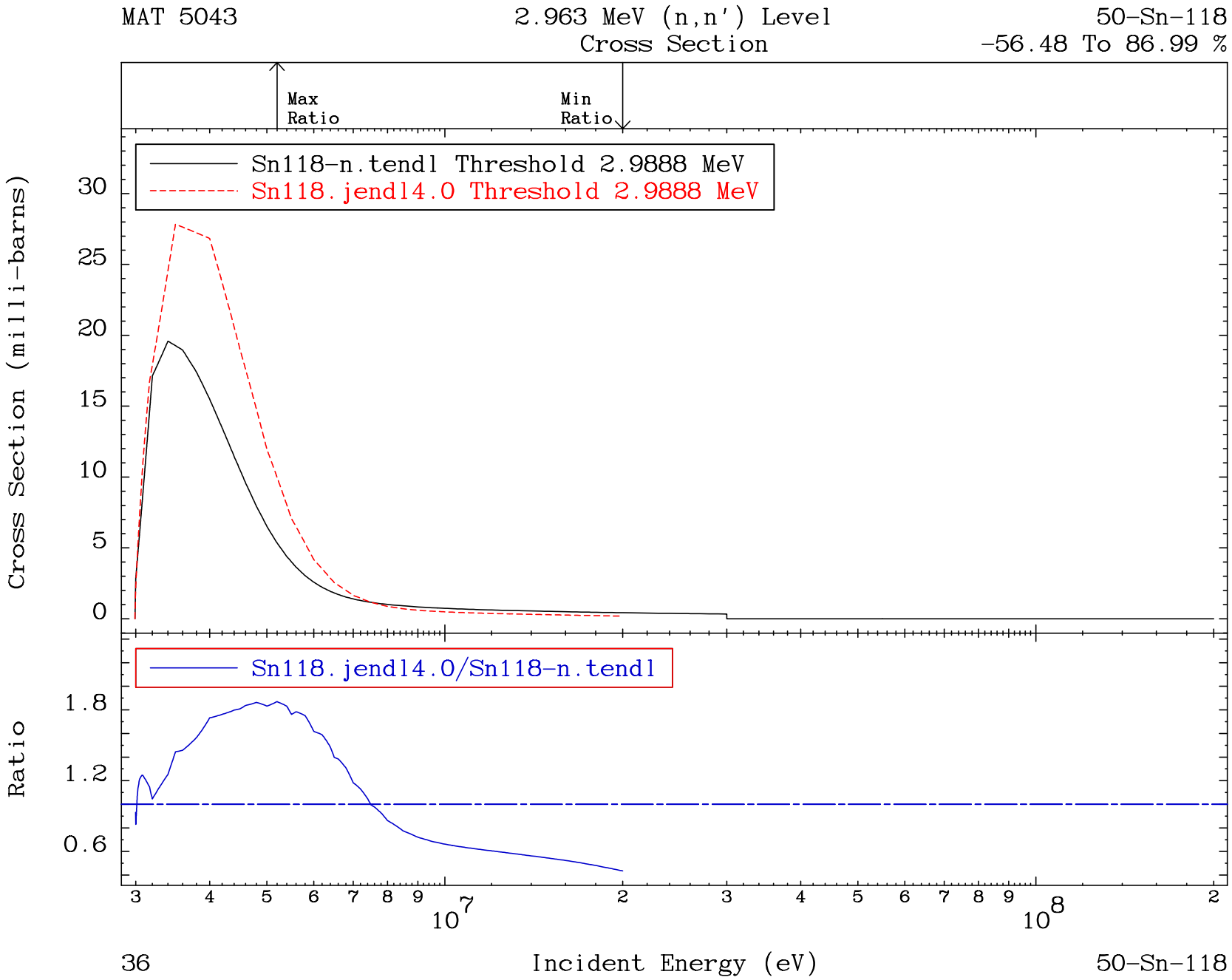

MAT 5043
2.879 MeV (n,n') Level
Cross Section
50-Sn-118
-35.01 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 2.9033 MeV
Sn118.jendl4.0 Threshold 2.9033 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
50-Sn-118

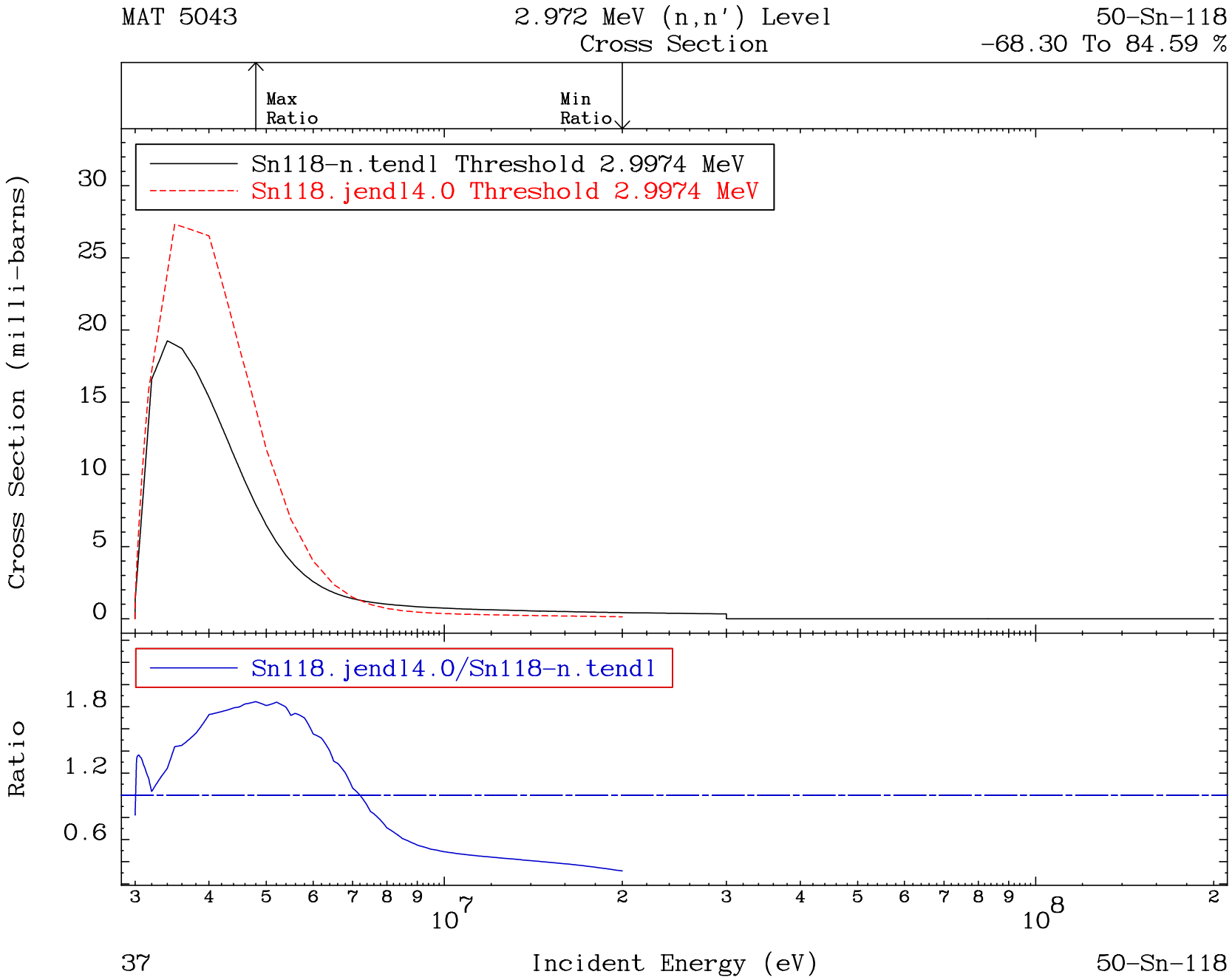

MAT 5043
2.889 MeV (n,n') Level
Cross Section
50-Sn-118
-49.14 To 409.7 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.9137 MeV
Sn118.jendl4.0 Threshold 2.9137 MeV
Cross Section (milli-barns)
0.0
0.2
0.4
0.6
0.8
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^0
6
4
2
6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
50-Sn-118

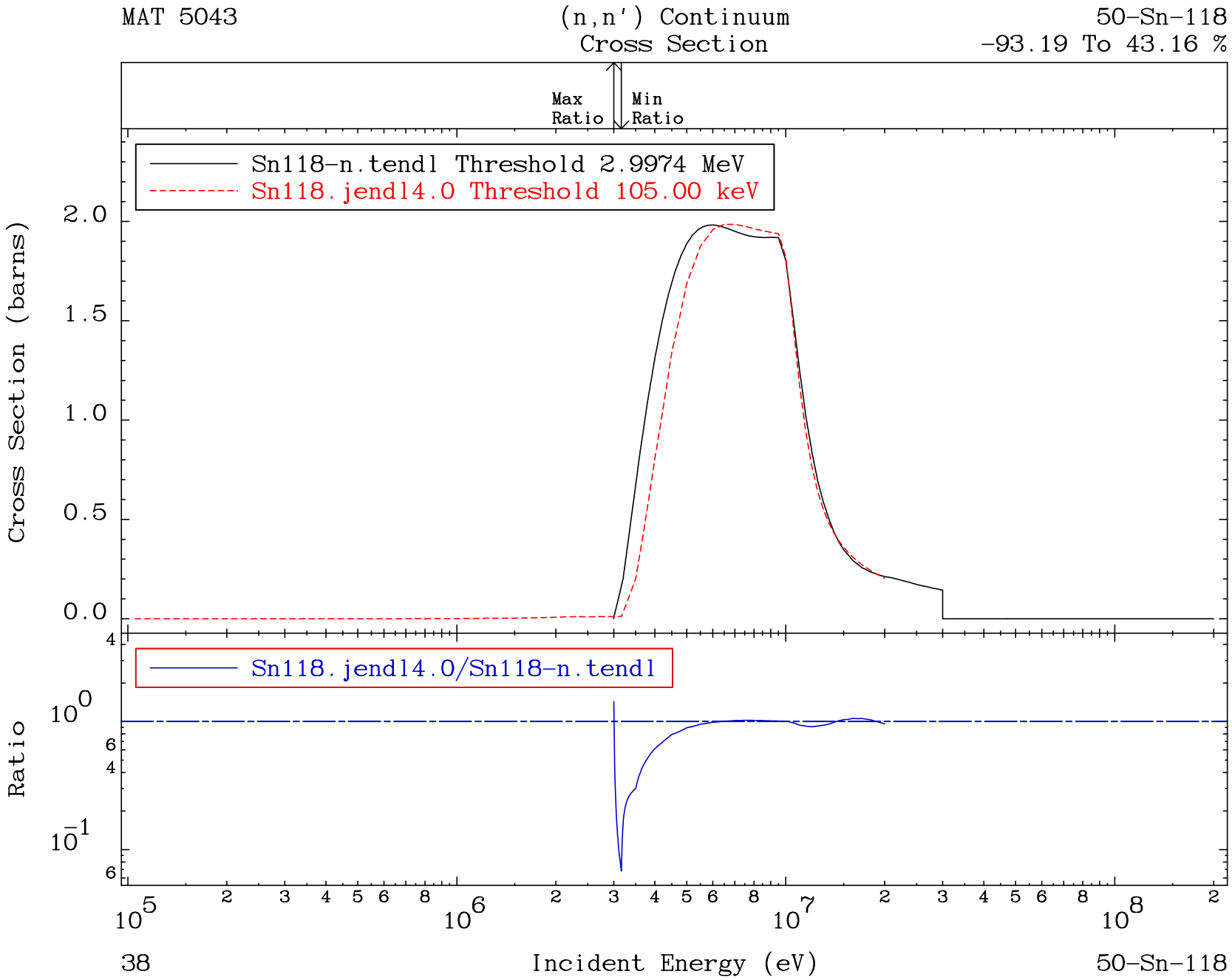

MAT 5043
2.904 MeV (n,n') Level
Cross Section
50-Sn-118
-71.04 To 80.16 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.9287 MeV
Sn118.jendl4.0 Threshold 2.9287 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
1.8
1.2
0.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
50-Sn-118

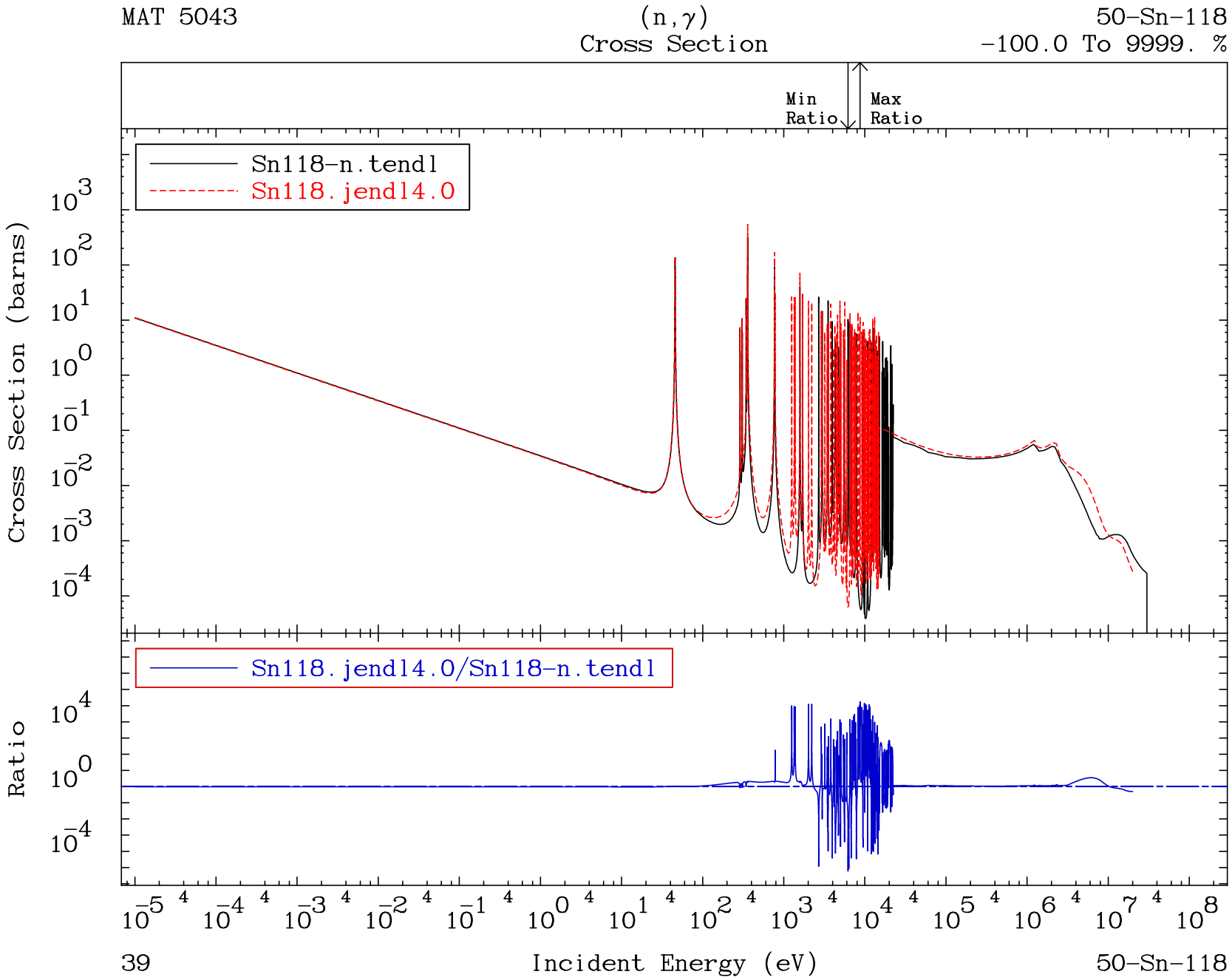

MAT 5043
2.930 MeV (n,n') Level
Cross Section
50-Sn-118
4.973 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 2.9548 MeV
Sn118.jendl4.0 Threshold 2.9548 MeV
Cross Section (milli-barns)
30
20
10
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
50-Sn-118

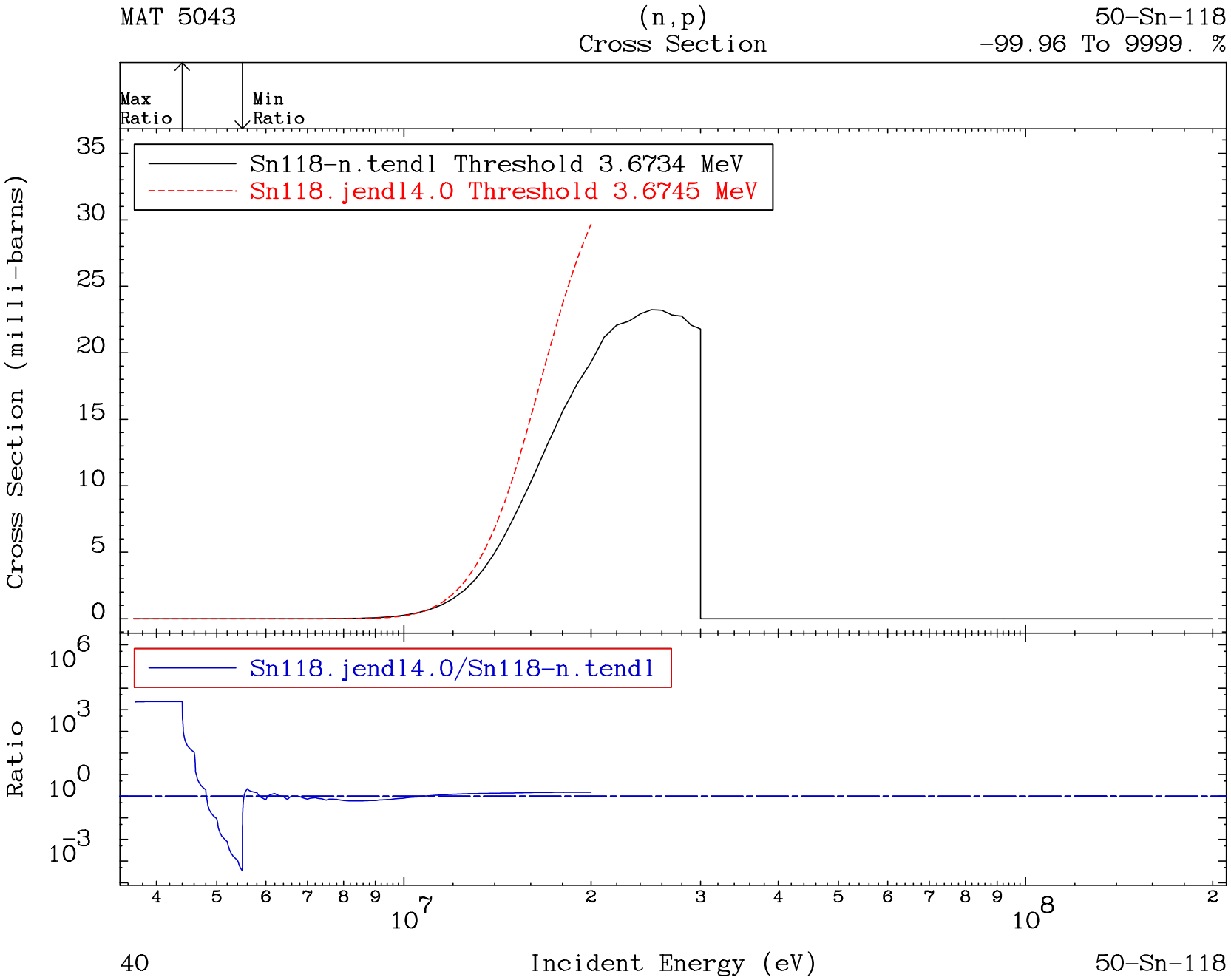

MAT 5043
2.934 MeV (n,n') Level
Cross Section
50-Sn-118
-75.63 To 79.97 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.9591 MeV
Sn118.jendl4.0 Threshold 2.9591 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
1.8
1.2
0.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
50-Sn-118

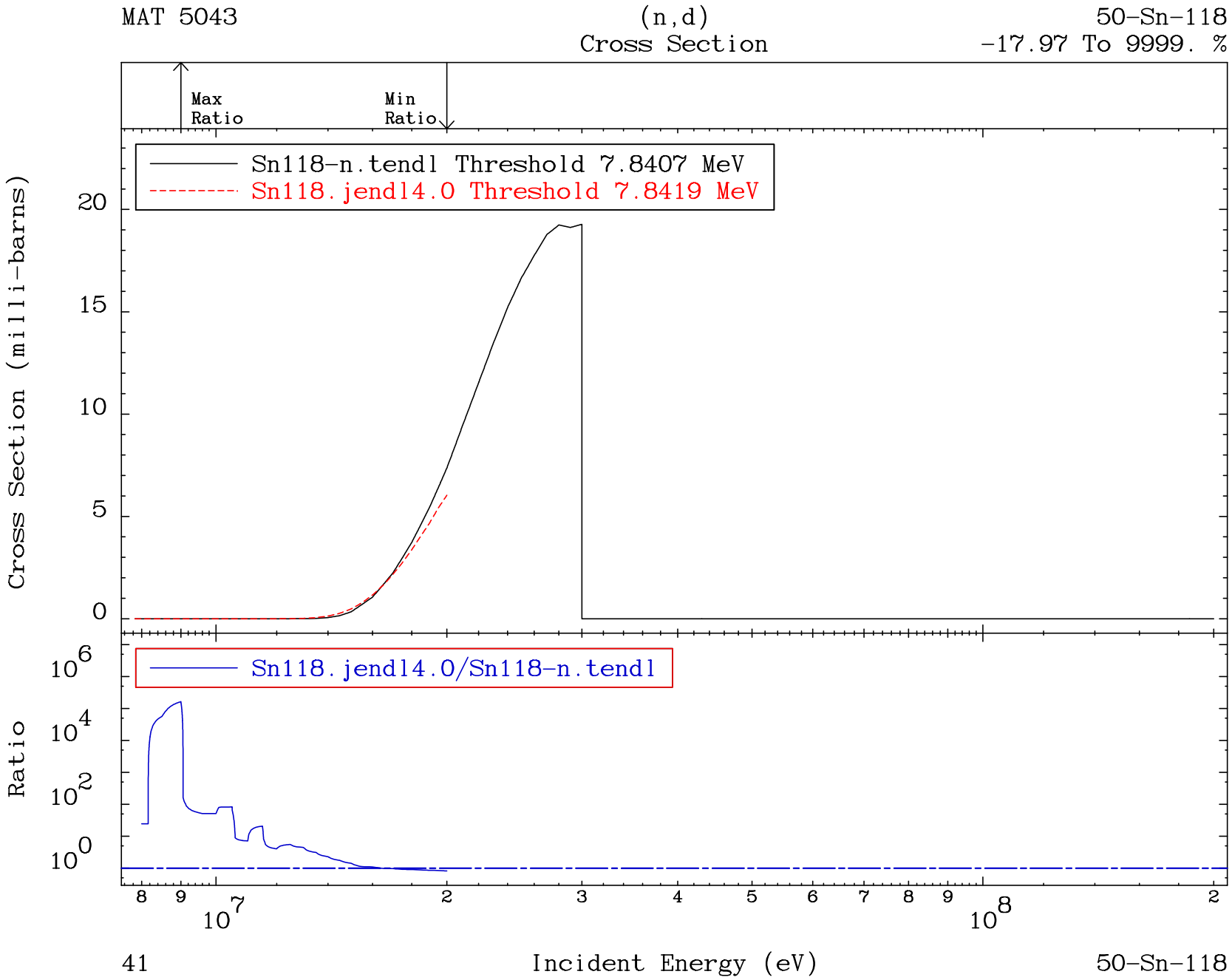

MAT 5043
2.963 MeV (n,n') Level
Cross Section
50-Sn-118
-56.48 To 86.99 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.9888 MeV
Sn118.jendl4.0 Threshold 2.9888 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
1.8
1.2
0.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
50-Sn-118

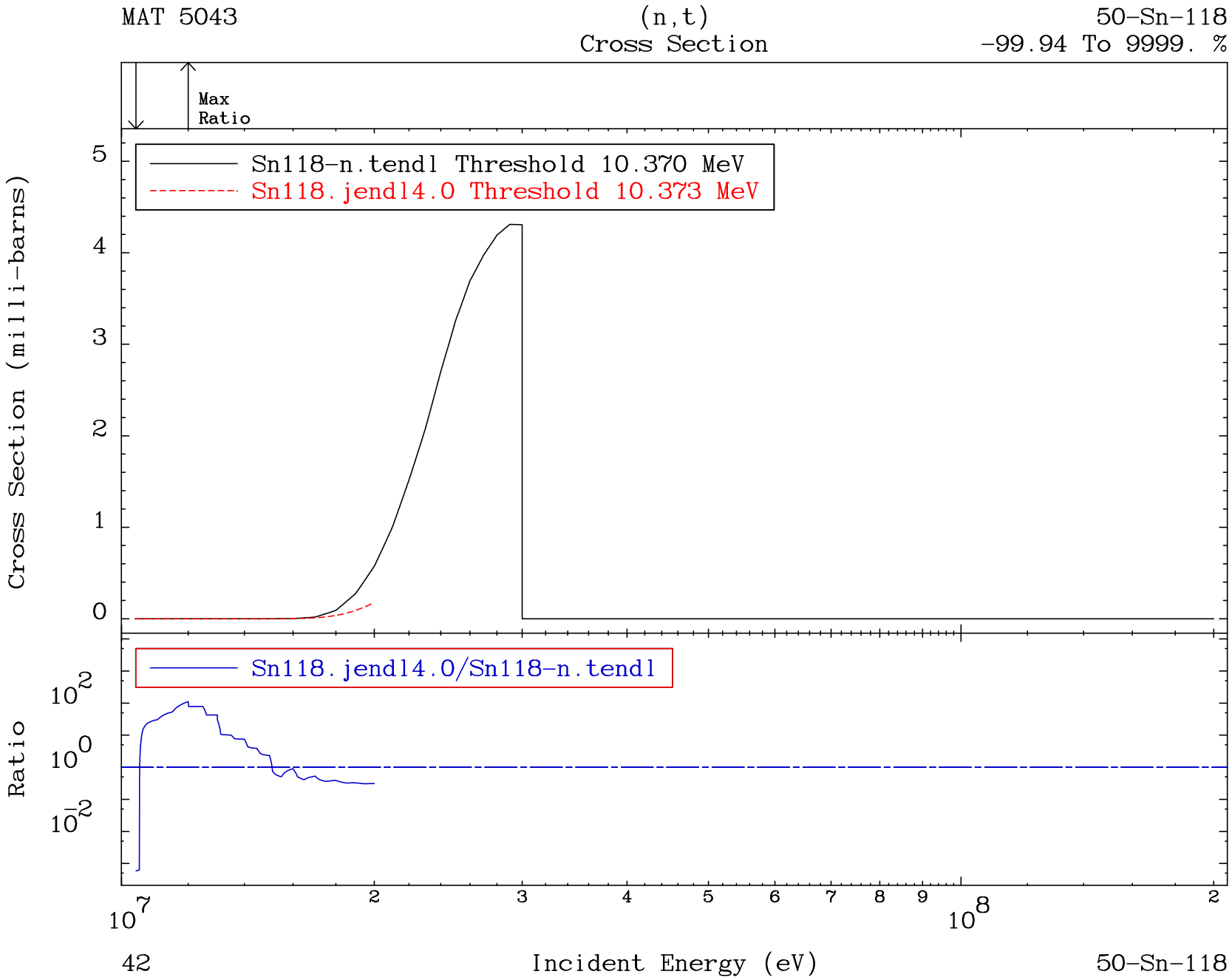

MAT 5043
2.972 MeV (n,n') Level
Cross Section
50-Sn-118
-68.30 To 84.59 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.9974 MeV
Sn118.jendl4.0 Threshold 2.9974 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
1.8
1.2
0.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
50-Sn-118

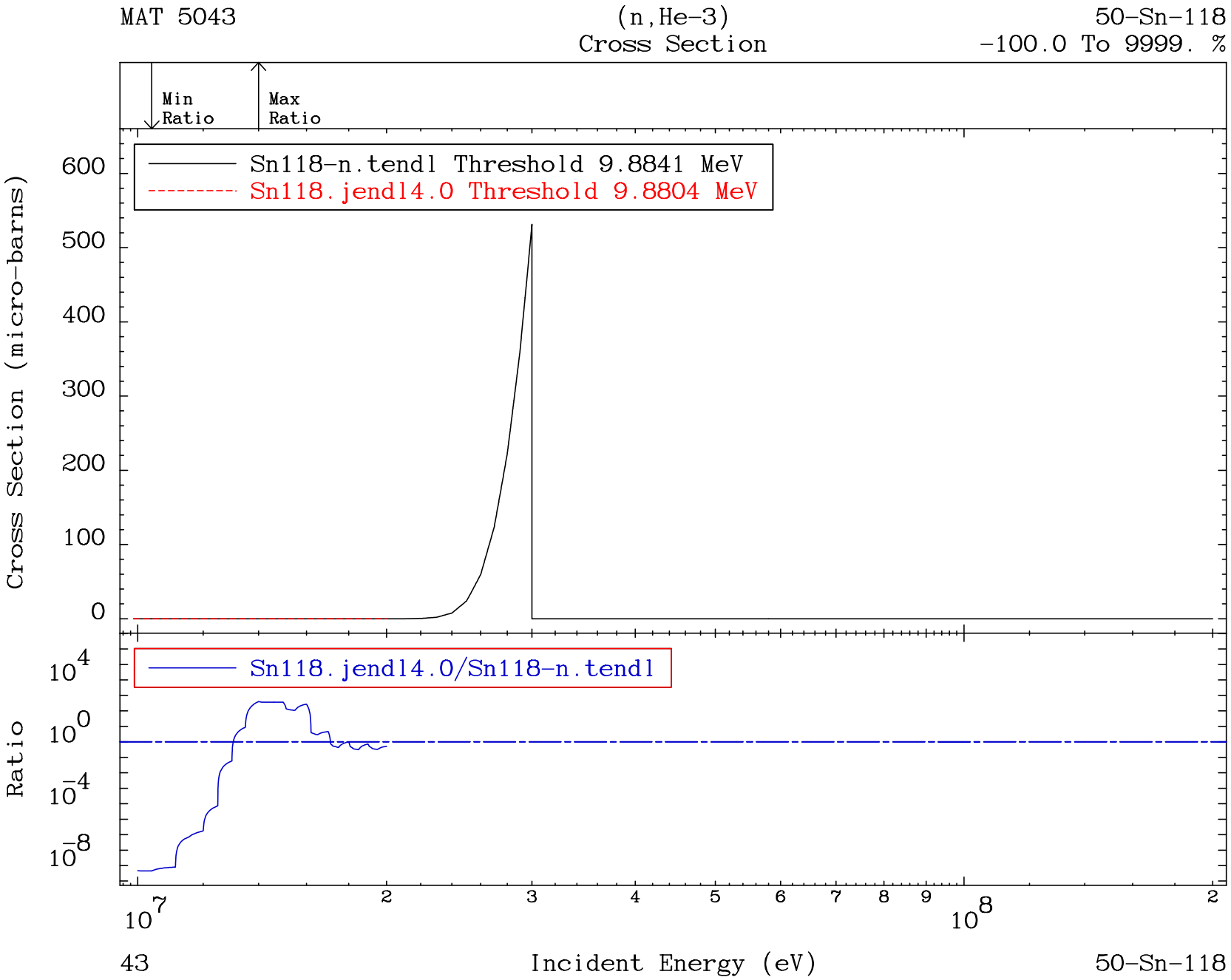

MAT 5043
(n,n') Continuum
Cross Section
50-Sn-118
-93.19 To 43.16 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 2.9974 MeV
Sn118.jendl4.0 Threshold 105.00 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
4
10^0
6
4
10^-1
6
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
38
Incident Energy (eV)
50-Sn-118

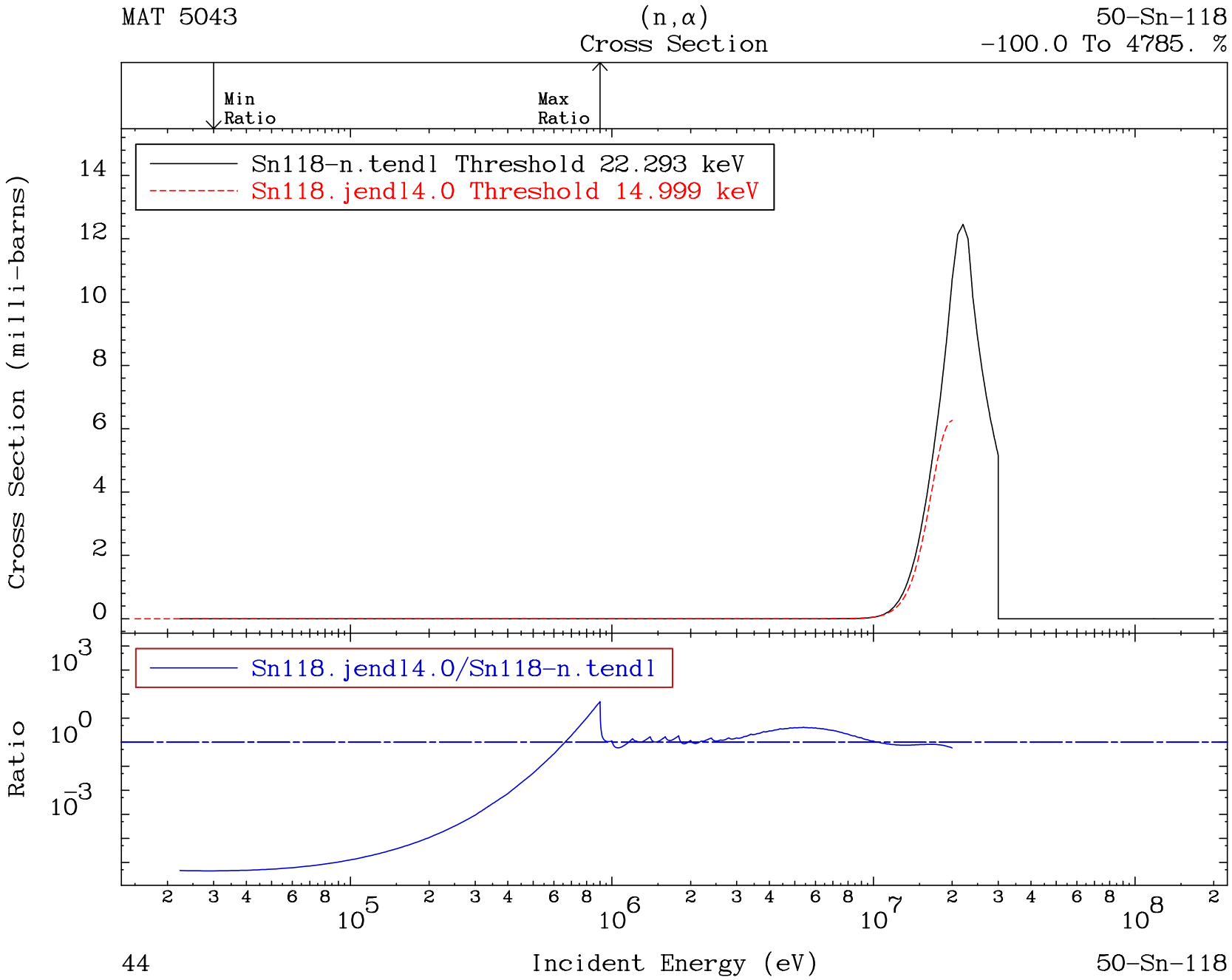

MAT 5043
(n,γ)
Cross Section
50-Sn-118
-100.0 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl
Sn118.jendl4.0
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
39
50-Sn-118

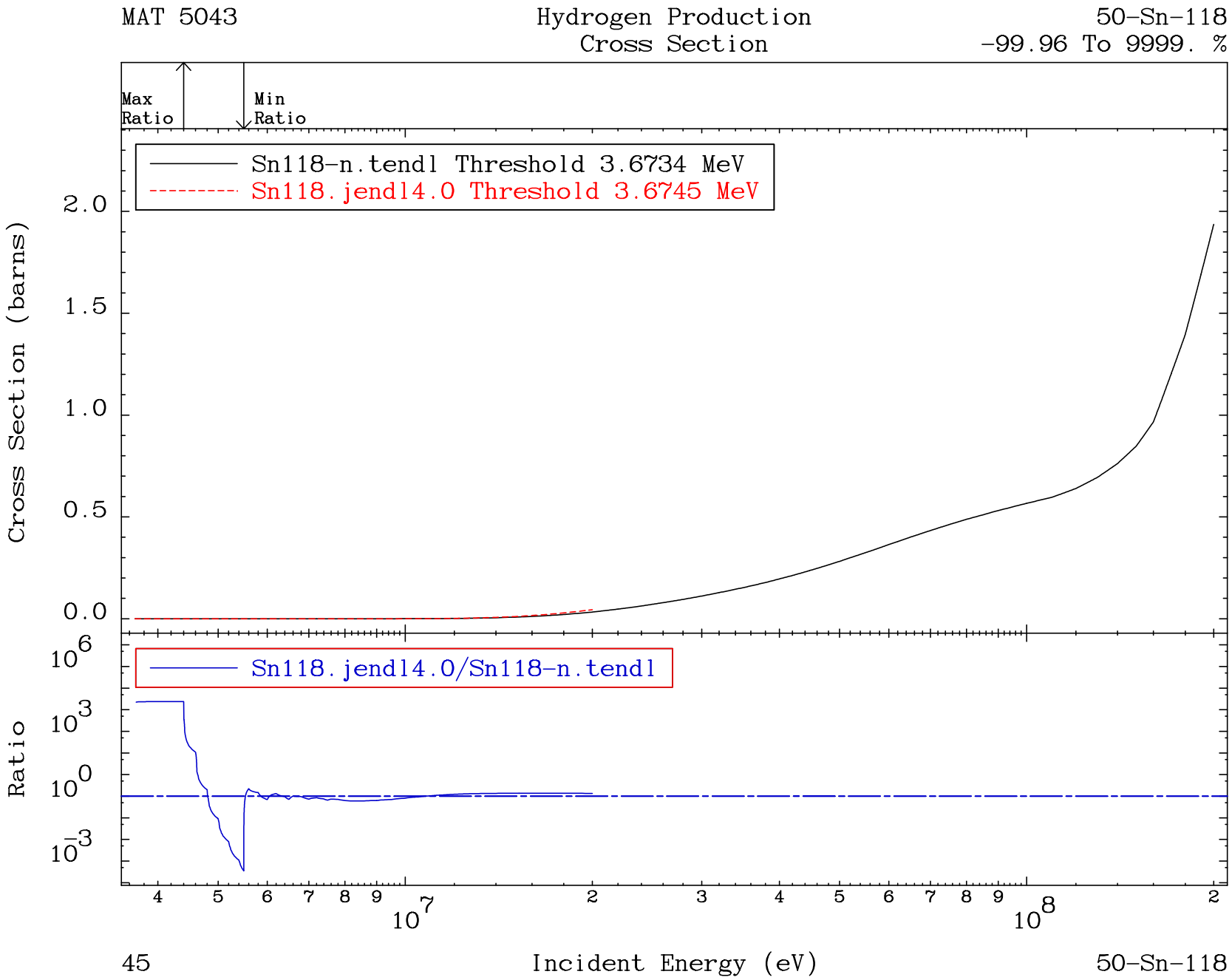

MAT 5043
(n,p)
Cross Section
50-Sn-118
-99.96 To 9999. %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 3.6734 MeV
Sn118.jendl4.0 Threshold 3.6745 MeV
Cross Section (milli-barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
40
50-Sn-118

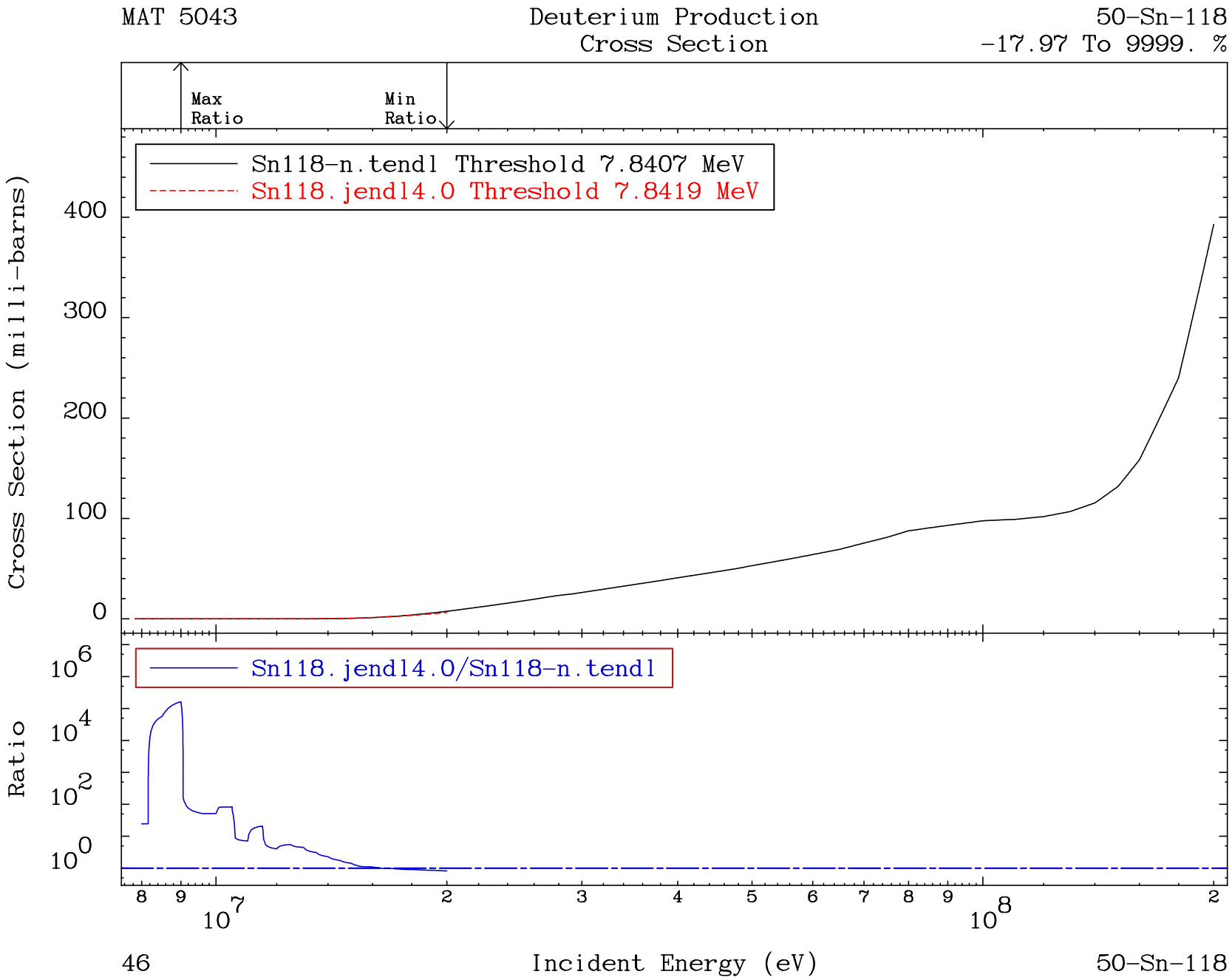

MAT 5043
(n,d)
Cross Section
50-Sn-118
-17.97 To 9999. %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 7.8407 MeV
Sn118.jendl4.0 Threshold 7.8419 MeV
Cross Section (milli-barns)
20
15
10
5
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^6
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
50-Sn-118

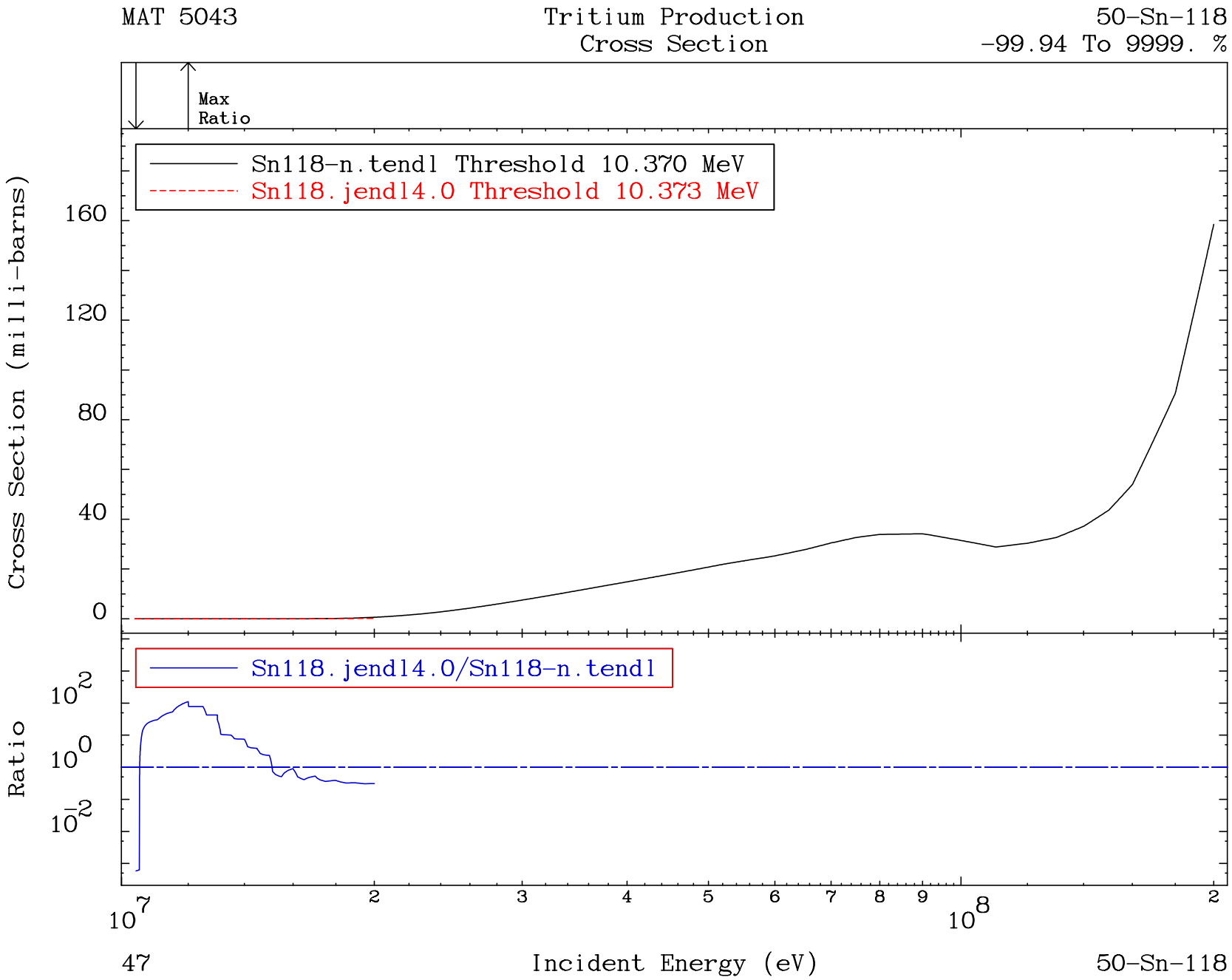

MAT 5043
(n,t)
Cross Section
50-Sn-118
-99.94 To 9999. %
Max
Ratio
Sn118-n.tendl Threshold 10.370 MeV
Sn118.jendl4.0 Threshold 10.373 MeV
Cross Section (milli-barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
42
50-Sn-118

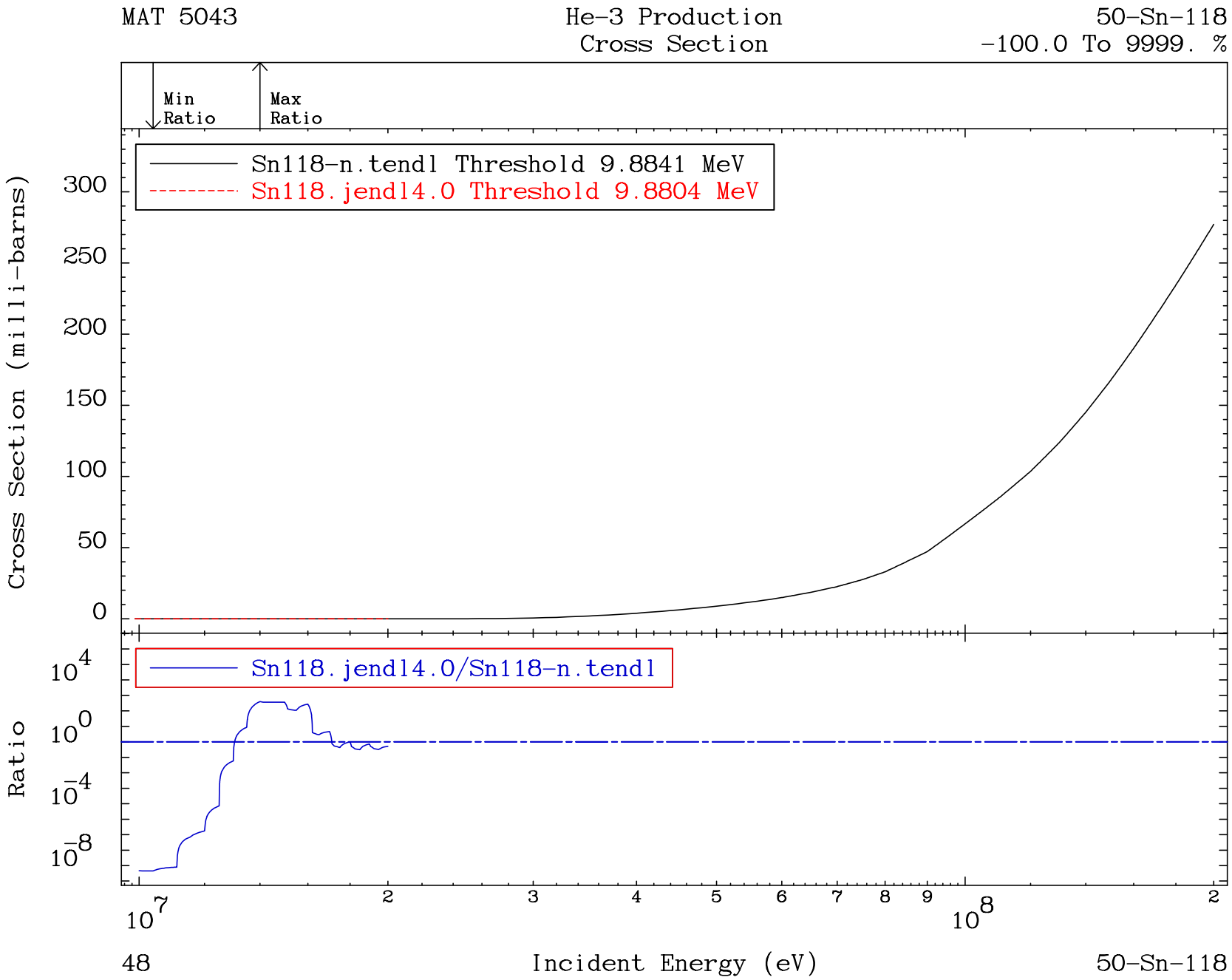

MAT 5043
(n,He-3)
Cross Section
50-Sn-118
-100.0 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 9.8841 MeV
Sn118.jendl4.0 Threshold 9.8804 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^4
10^0
10^-4
10^-8
10^7
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
50-Sn-118

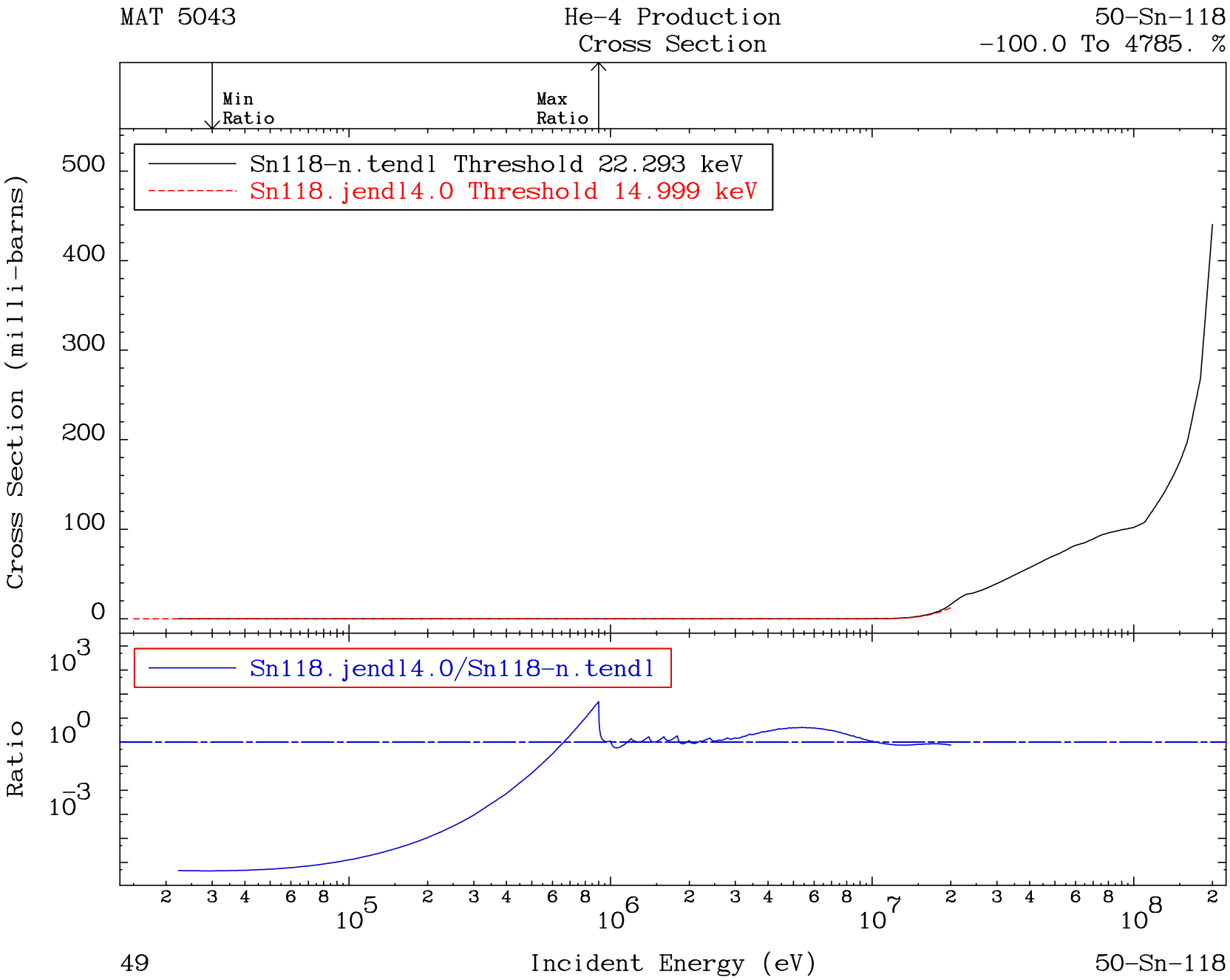

MAT 5043
(n,α)
Cross Section
50-Sn-118
-100.0 To 4785. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 22.293 keV
Sn118.jendl4.0 Threshold 14.999 keV
Cross Section (milli-barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
44
50-Sn-118

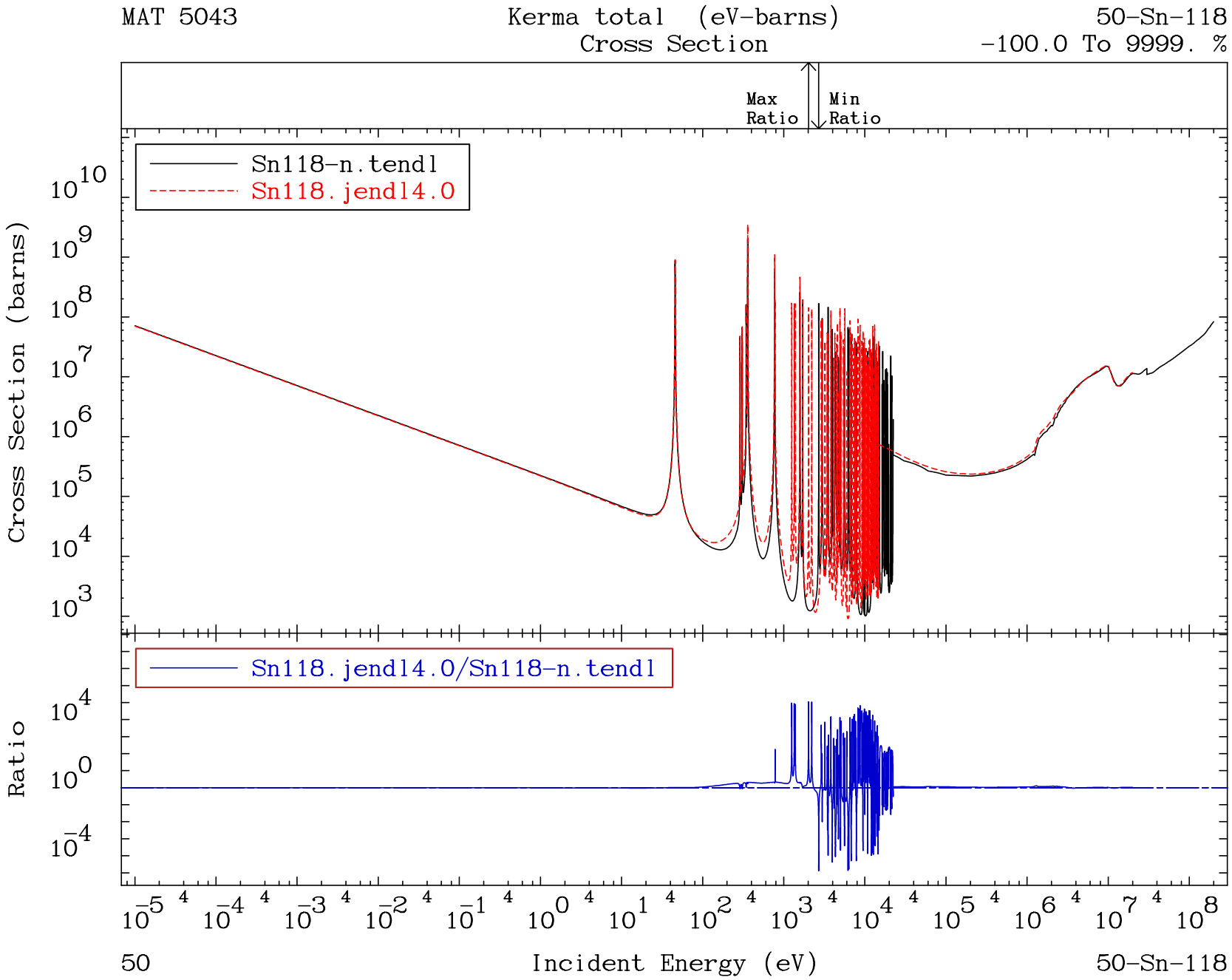

MAT 5043
Hydrogen Production
Cross Section
50-Sn-118
-99.96 To 9999. %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 3.6734 MeV
Sn118.jendl4.0 Threshold 3.6745 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^6
10^3
10^0
10^-3
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
50-Sn-118

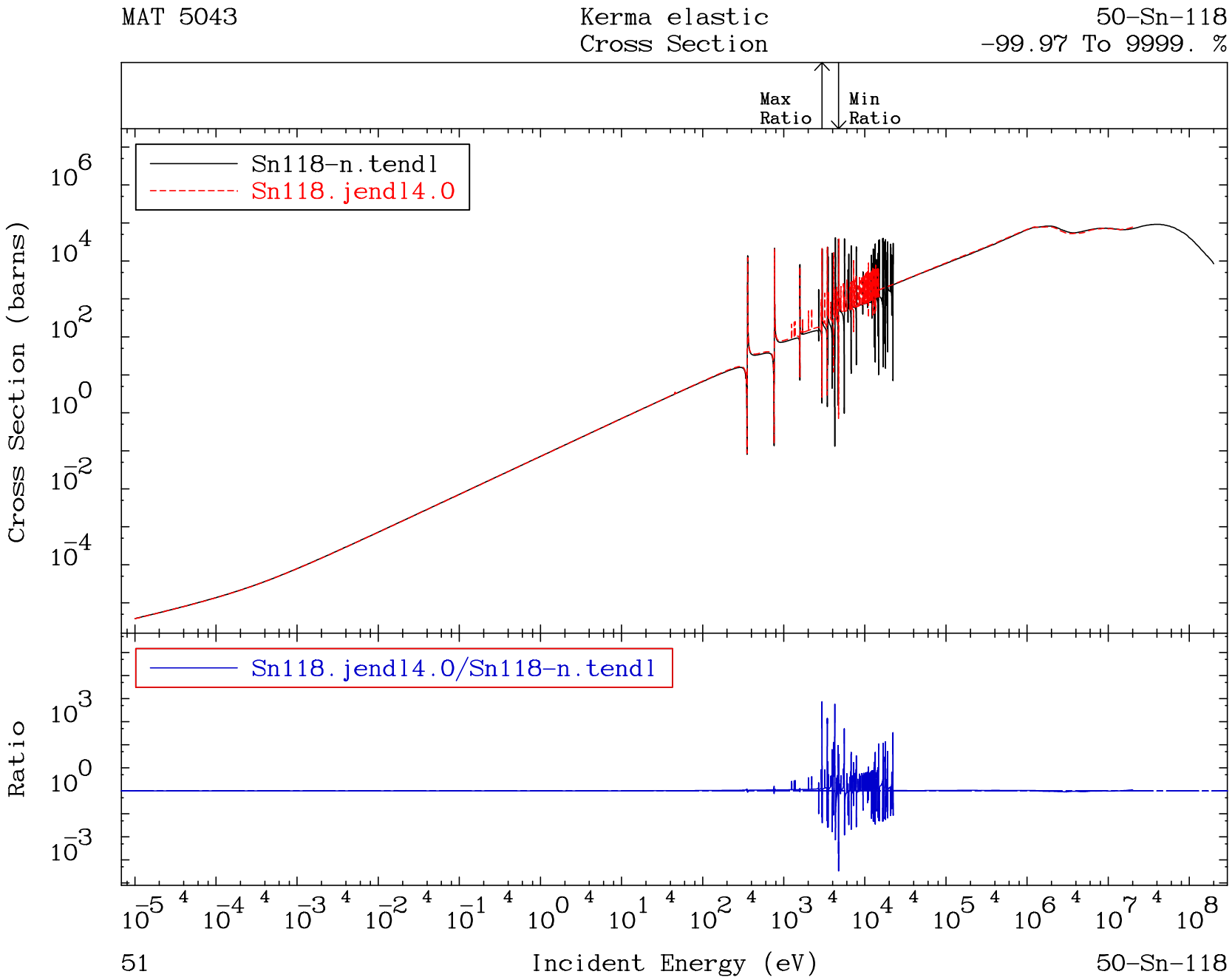

MAT 5043
Deuterium Production
Cross Section
50-Sn-118
-17.97 To 9999. %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 7.8407 MeV
Sn118.jendl4.0 Threshold 7.8419 MeV
Cross Section (milli-barns)
400
300
200
100
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^6
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
50-Sn-118

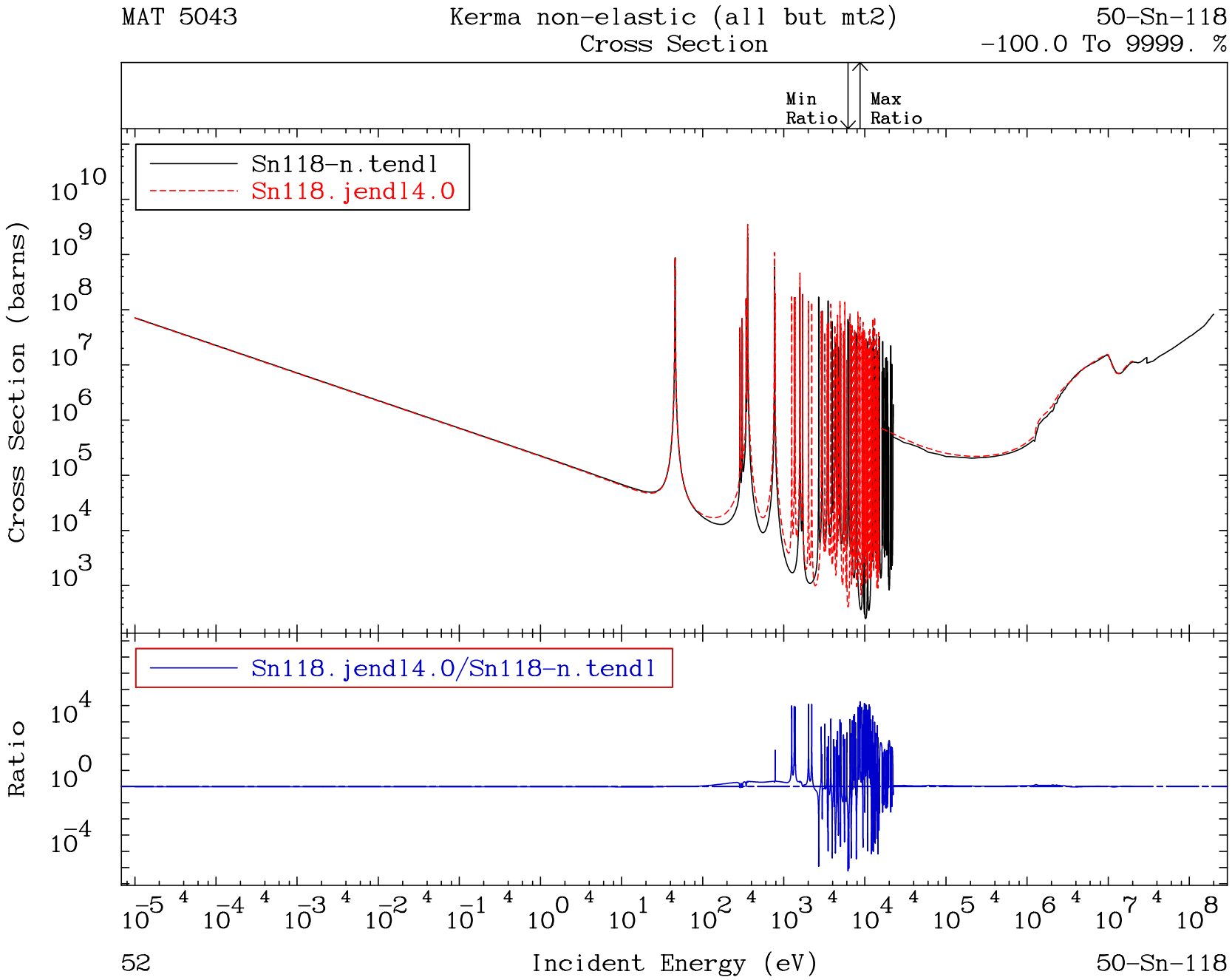

MAT 5043
Tritium Production
Cross Section
50-Sn-118
-99.94 To 9999. %
Max
Ratio
Sn118-n.tendl Threshold 10.370 MeV
Sn118.jendl4.0 Threshold 10.373 MeV
Cross Section (milli-barns)
160
120
80
40
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^2
10^0
10^-2
10^7
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
50-Sn-118

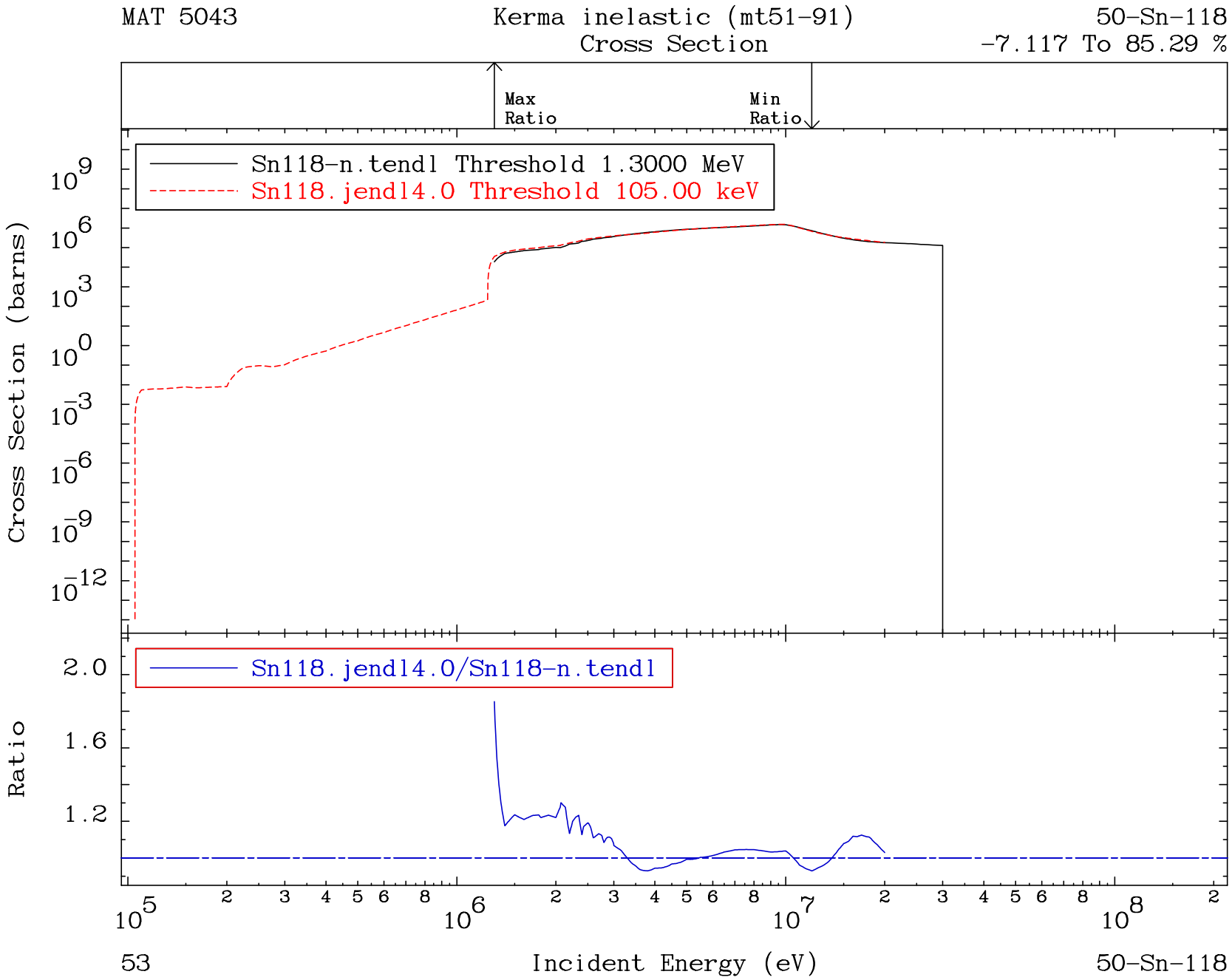

MAT 5043
He-3 Production
Cross Section
50-Sn-118
-100.0 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 9.8841 MeV
Sn118.jendl4.0 Threshold 9.8804 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^4
10^0
10^-4
10^-8
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
50-Sn-118

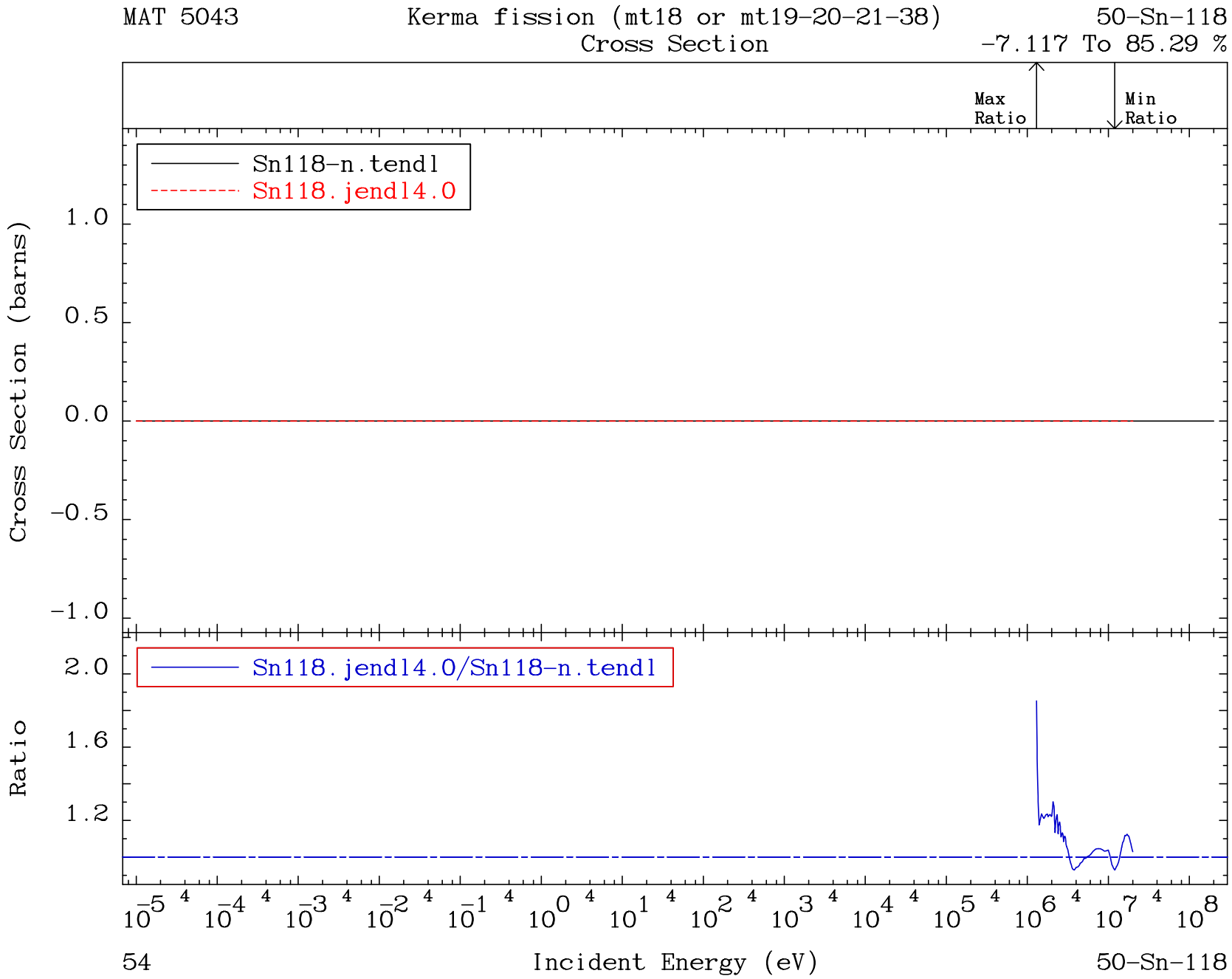

MAT 5043
He-4 Production
Cross Section
50-Sn-118
-100.0 To 4785. %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 22.293 keV
Sn118.jendl4.0 Threshold 14.999 keV
Cross Section (milli-barns)
500
400
300
200
100
0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
10^3
10^0
10^-3
2 3 4 6 8 10^5 2 3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
49
Incident Energy (eV)
50-Sn-118

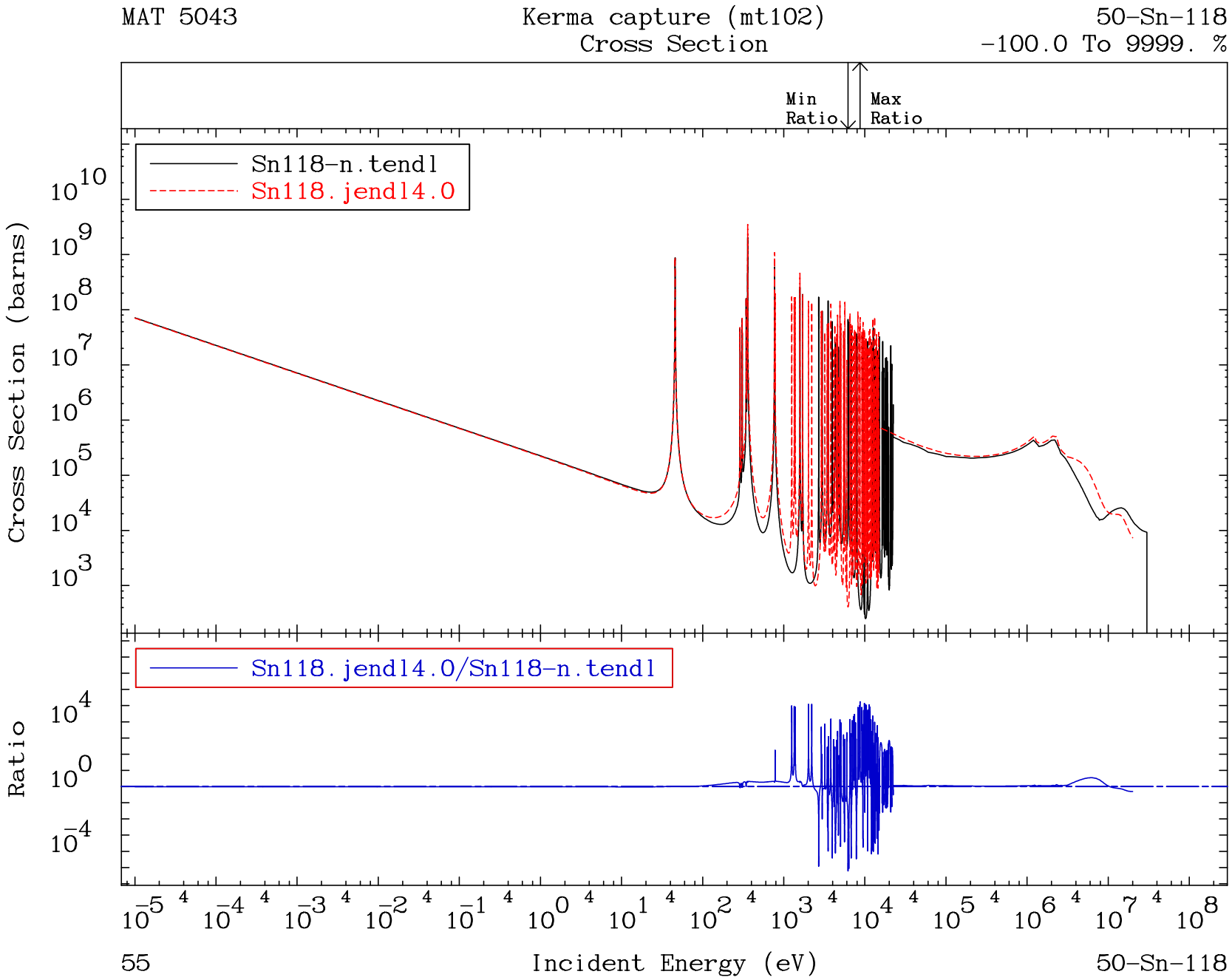

MAT 5043
Kerma total (eV-barns)
Cross Section
50-Sn-118
-100.0 To 9999. %
Max Ratio
Min Ratio
Sn118-n.tendl
Sn118.jendl4.0
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
50
50-Sn-118

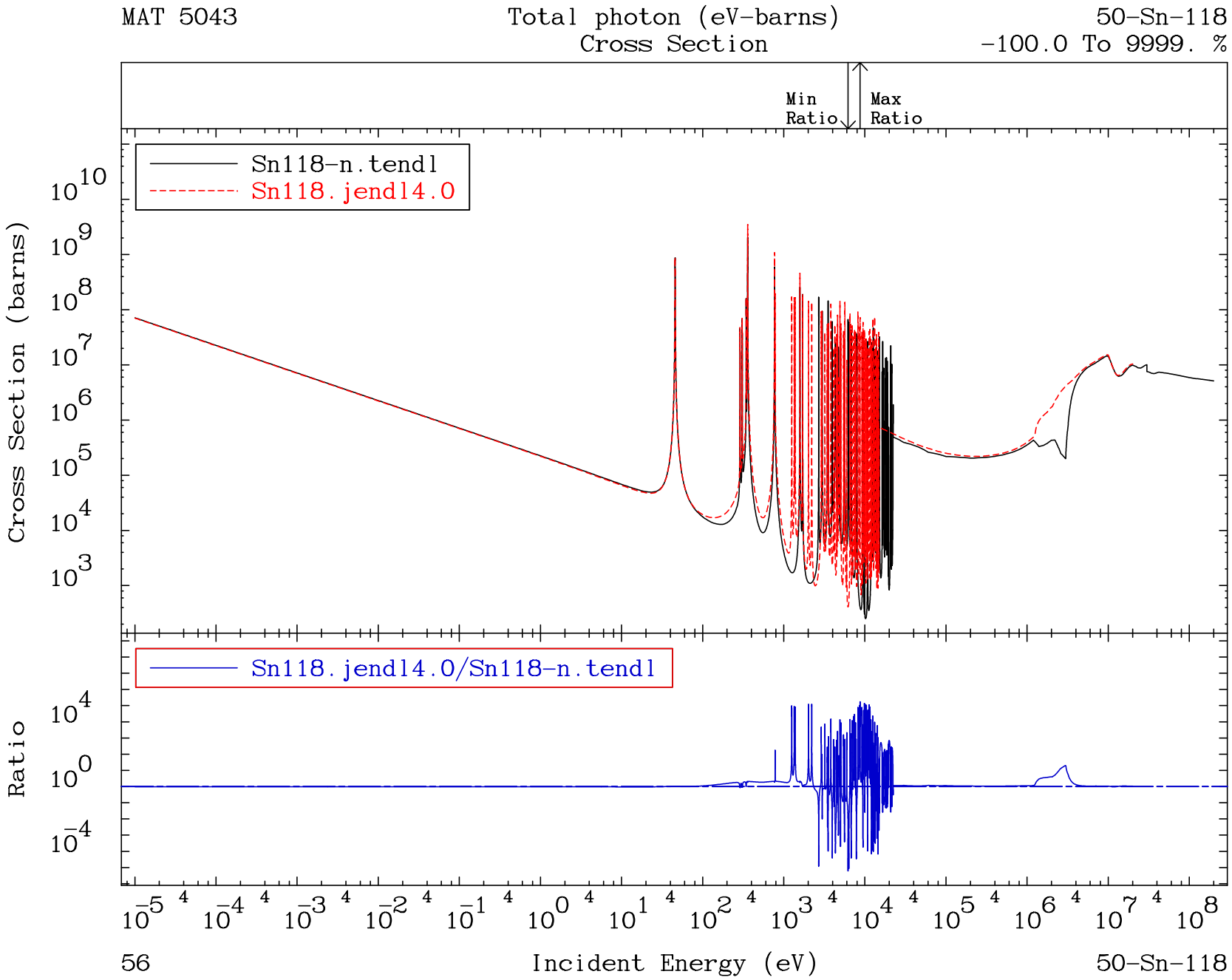

MAT 5043
Kerma elastic
Cross Section
50-Sn-118
-99.97 To 9999. %
Max Ratio
Min Ratio
Sn118-n.tendl
Sn118.jendl4.0
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
51
50-Sn-118

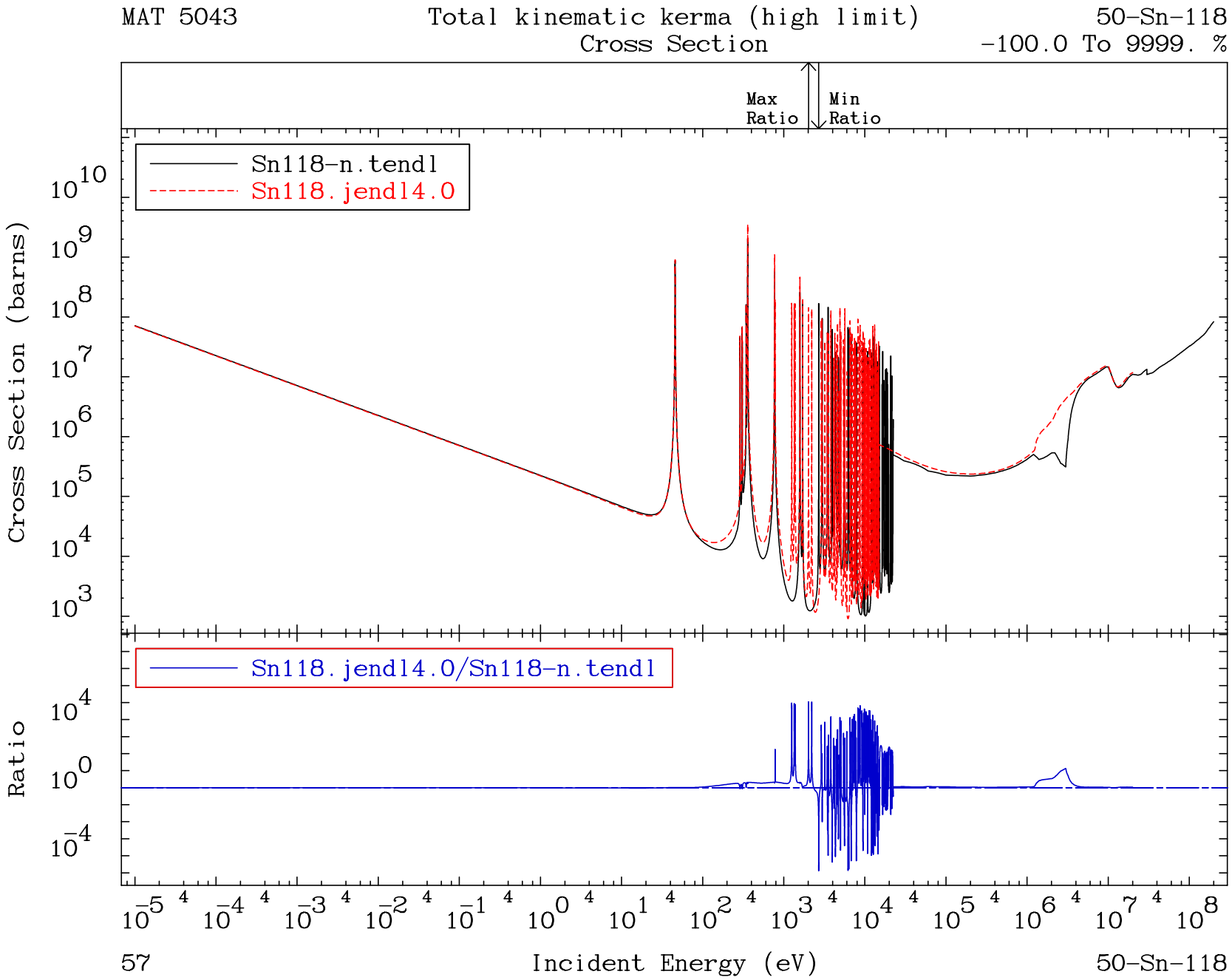

MAT 5043
Kerma non-elastic (all but mt2)
Cross Section
50-Sn-118
-100.0 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl
Sn118.jendl4.0
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
52
50-Sn-118

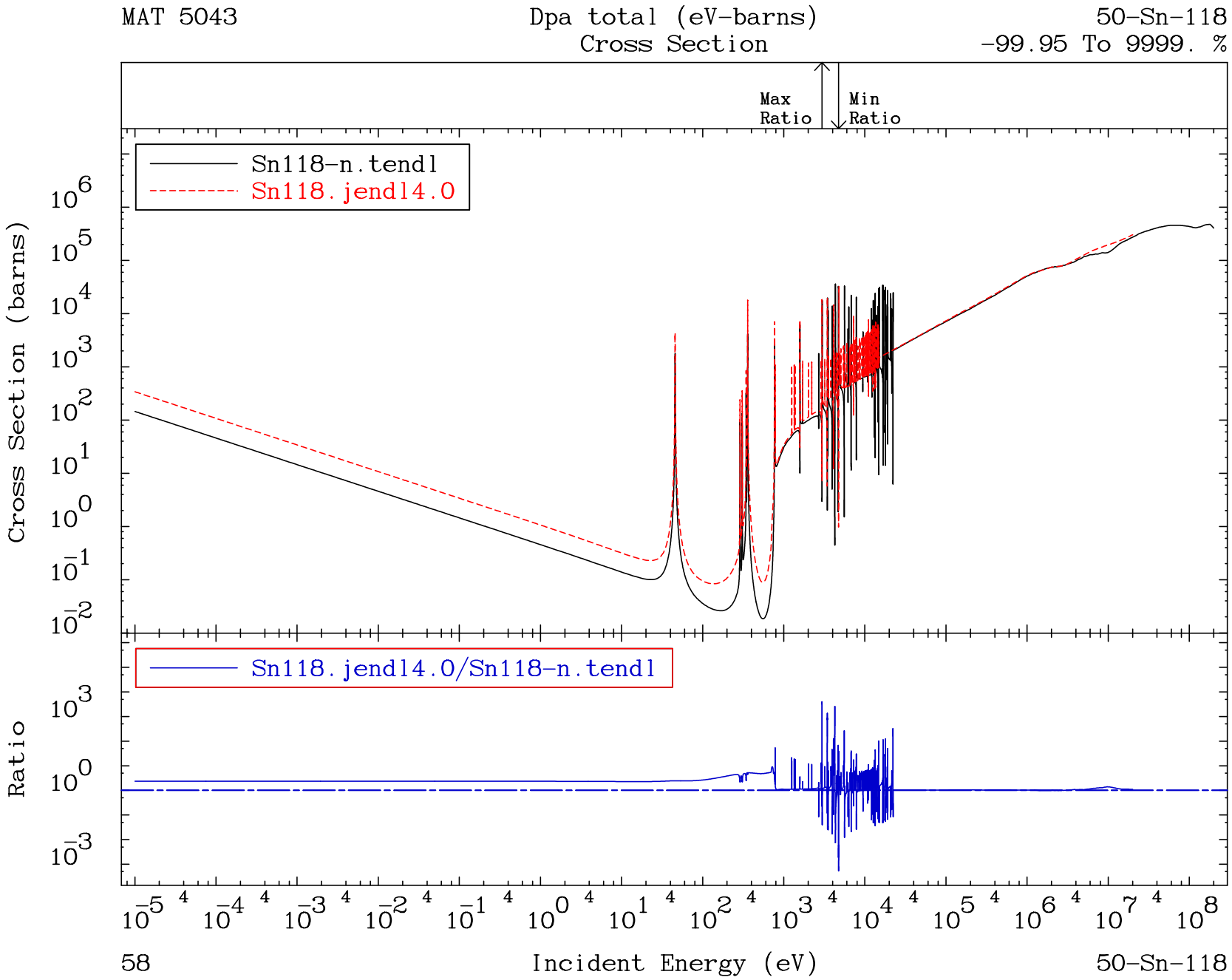

MAT 5043
Kerma inelastic (mt51-91)
Cross Section
50-Sn-118
-7.117 To 85.29 %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 1.3000 MeV
Sn118.jendl4.0 Threshold 105.00 keV
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
53
50-Sn-118

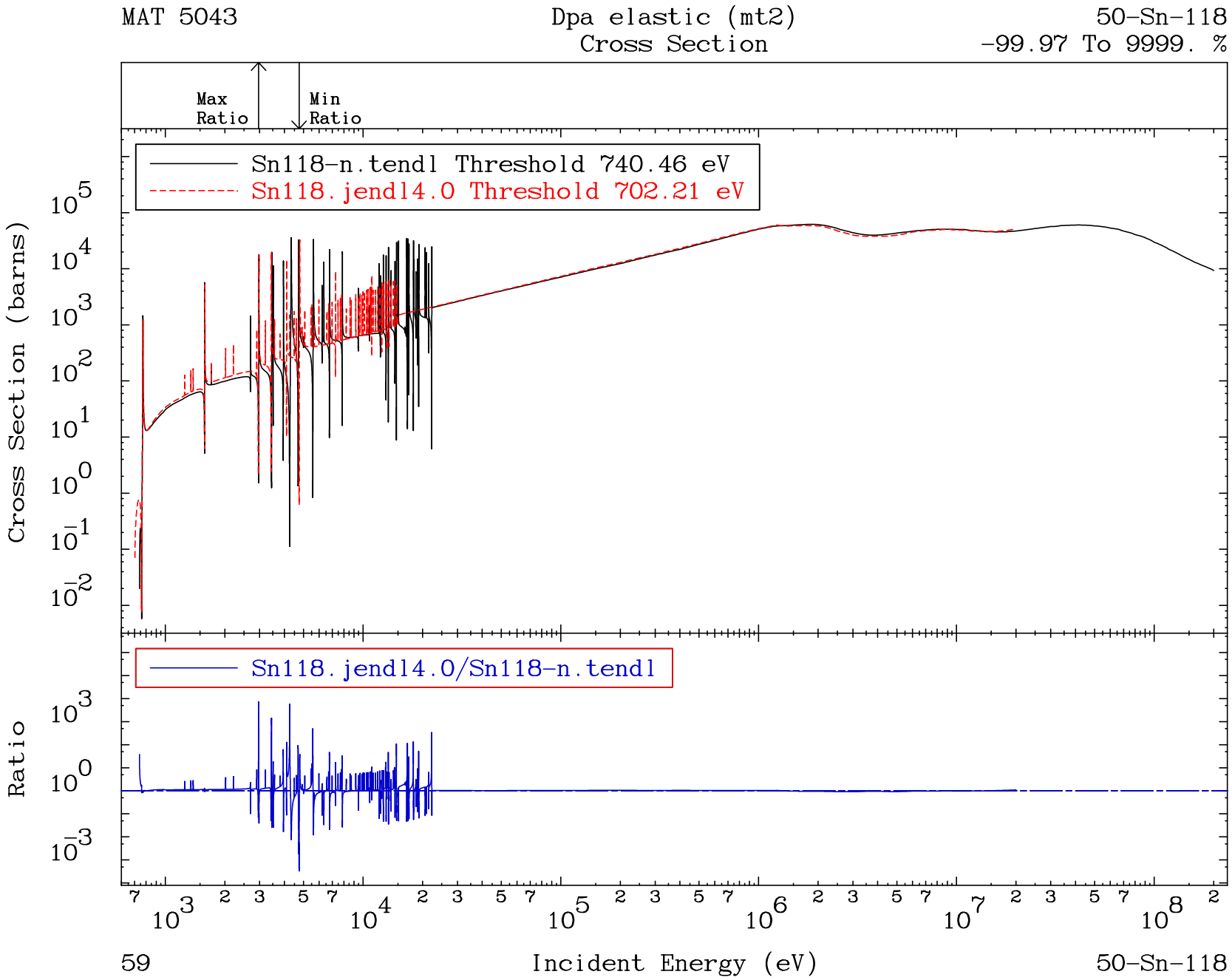

MAT 5043
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
50-Sn-118
-7.117 To 85.29 %
Max Ratio
Min Ratio
Sn118-n.tendl
Sn118.jendl4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Sn118.jendl4.0/Sn118-n.tendl
Ratio
2.0
1.6
1.2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
54
Incident Energy (eV)
50-Sn-118

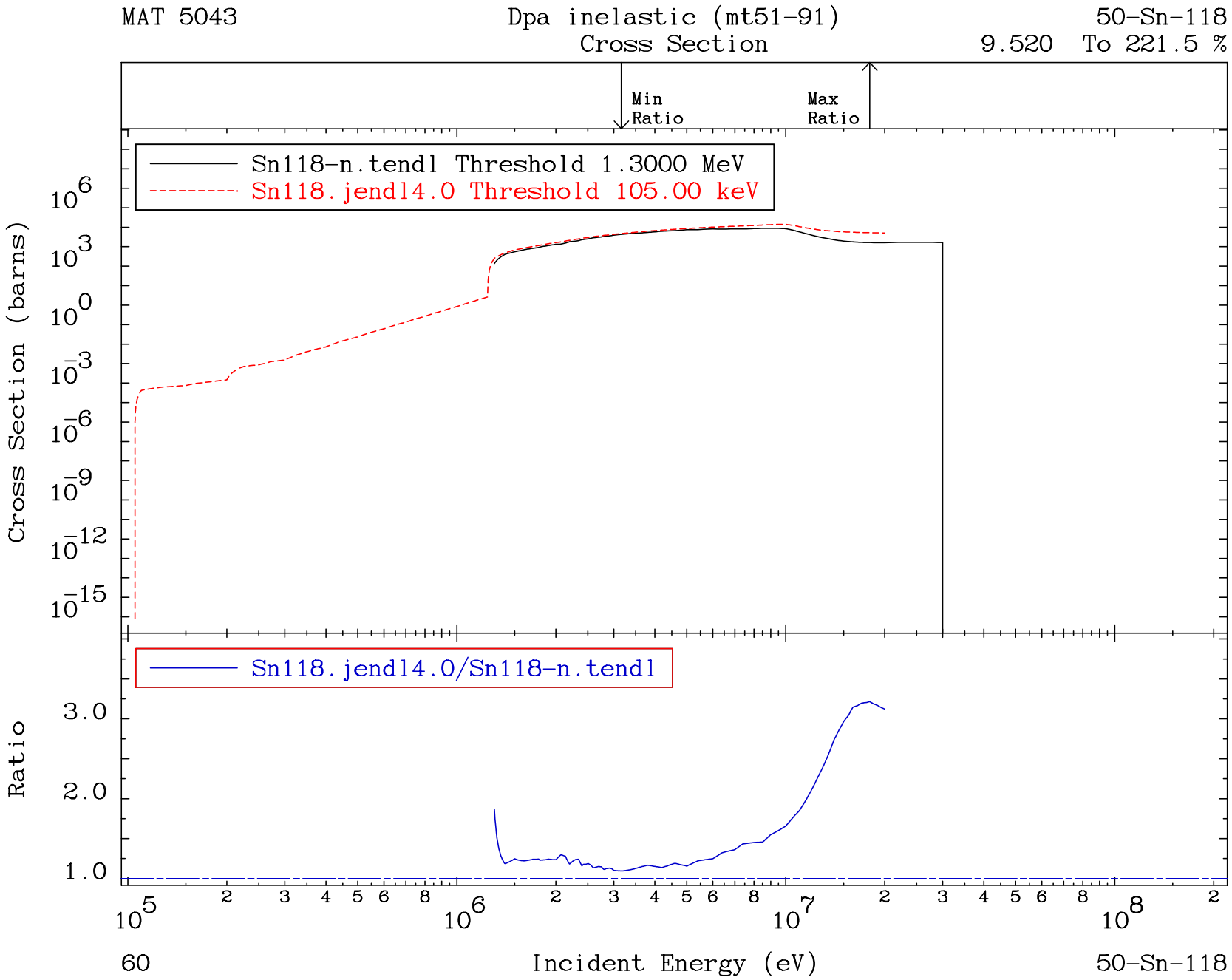

MAT 5043
Kerma capture (mt102)
Cross Section
50-Sn-118
-100.0 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl
Sn118.jendl4.0
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
55
50-Sn-118

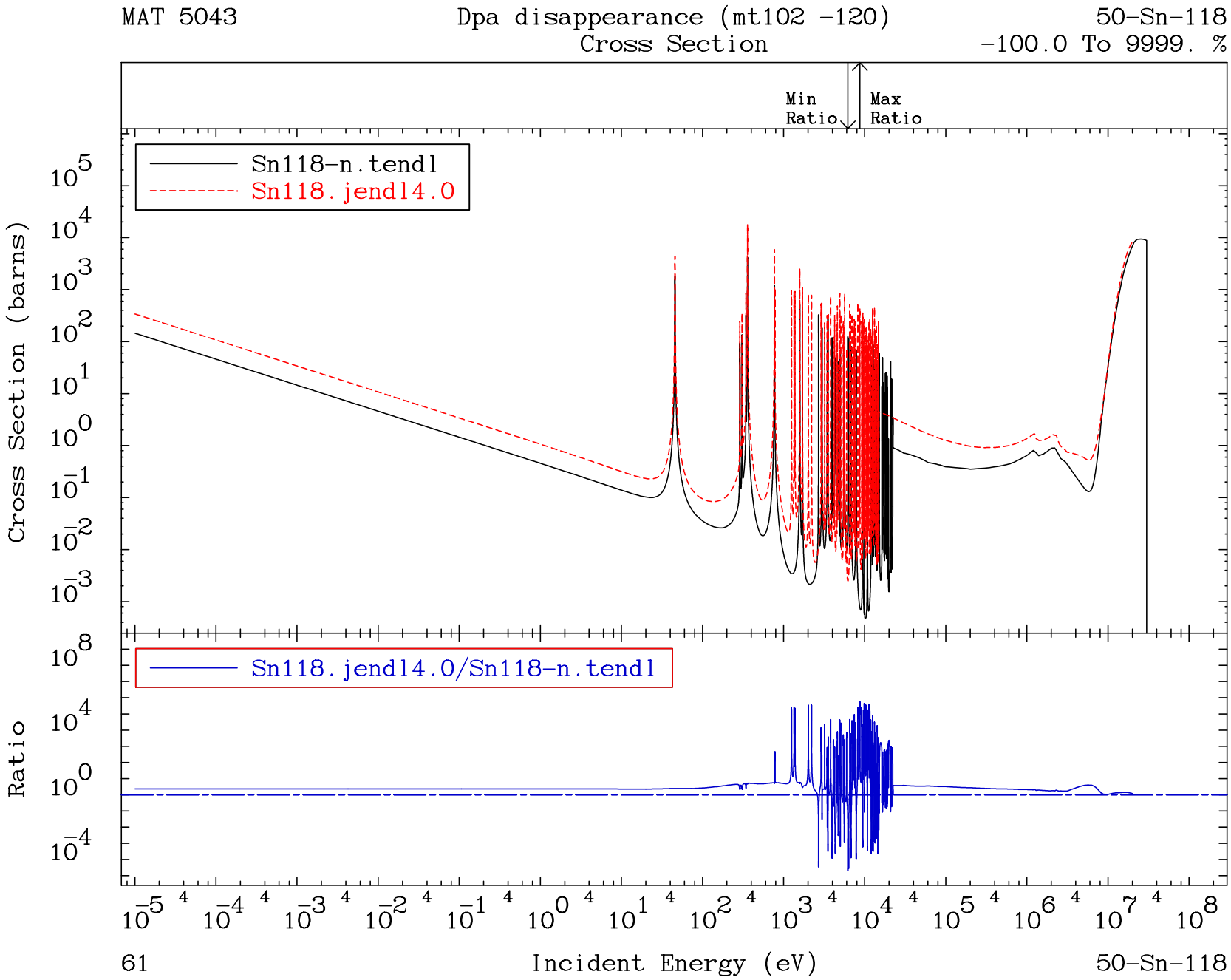

MAT 5043
Total photon (eV-barns)
Cross Section
50-Sn-118
-100.0 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl
Sn118.jendl4.0
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
56
50-Sn-118


MAT 5043
Total kinematic kerma (high limit)
Cross Section
50-Sn-118
-100.0 To 9999. %
Max Ratio
Min Ratio
Sn118-n.tendl
Sn118.jendl4.0
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
57
50-Sn-118


MAT 5043
Dpa total (eV-barns)
Cross Section
50-Sn-118
-99.95 To 9999. %
Max Ratio
Min Ratio
Sn118-n.tendl
Sn118.jendl4.0
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
58
Incident Energy (eV)
50-Sn-118


MAT 5043
Dpa elastic (mt2)
Cross Section
50-Sn-118
-99.97 To 9999. %
Max Ratio
Min Ratio
Sn118-n.tendl Threshold 740.46 eV
Sn118.jendl4.0 Threshold 702.21 eV
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
59
50-Sn-118


MAT 5043
Dpa inelastic (mt51-91)
Cross Section
50-Sn-118
9.520 To 221.5 %
Min Ratio
Max Ratio
Sn118-n.tendl Threshold 1.3000 MeV
Sn118.jendl4.0 Threshold 105.00 keV
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
Incident Energy (eV)
60
50-Sn-118


MAT 5043
Dpa disappearance (mt102 -120)
Cross Section
50-Sn-118
-100.0 To 9999. %
Min Ratio
Max Ratio
Sn118-n.tendl
Sn118.jendl4.0
Cross Section (barns)
Sn118.jendl4.0/Sn118-n.tendl
Ratio
61
Incident Energy (eV)
50-Sn-118