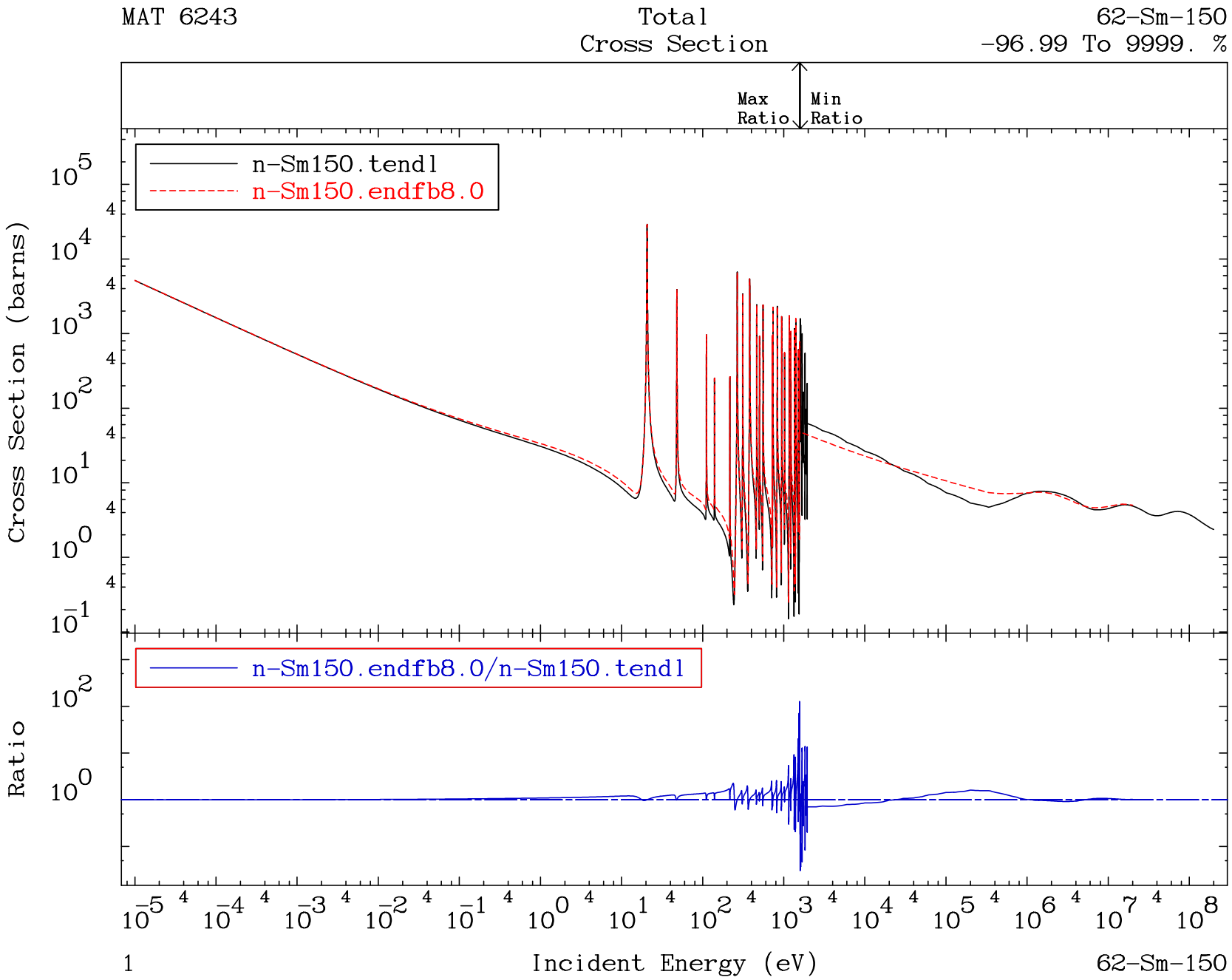
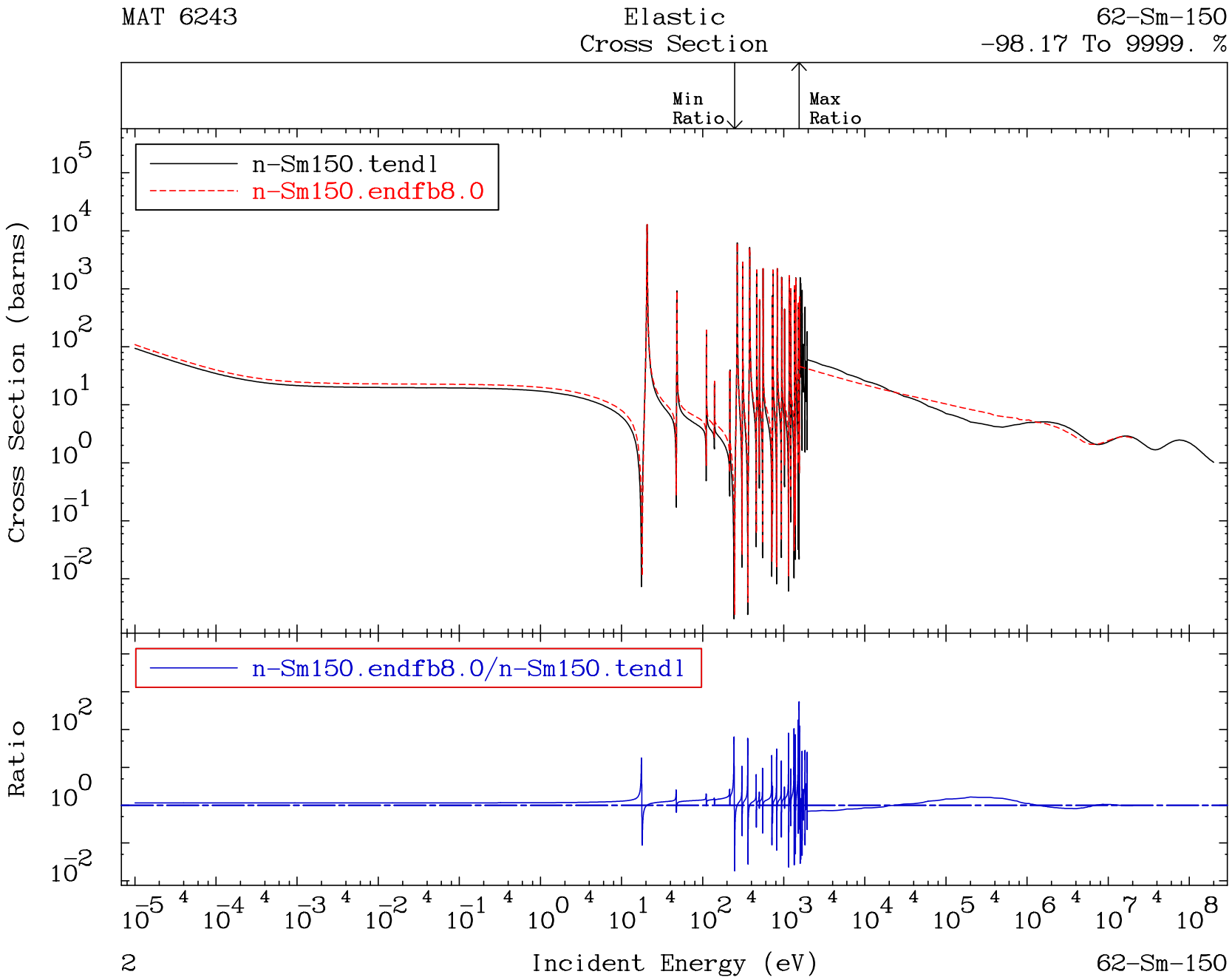
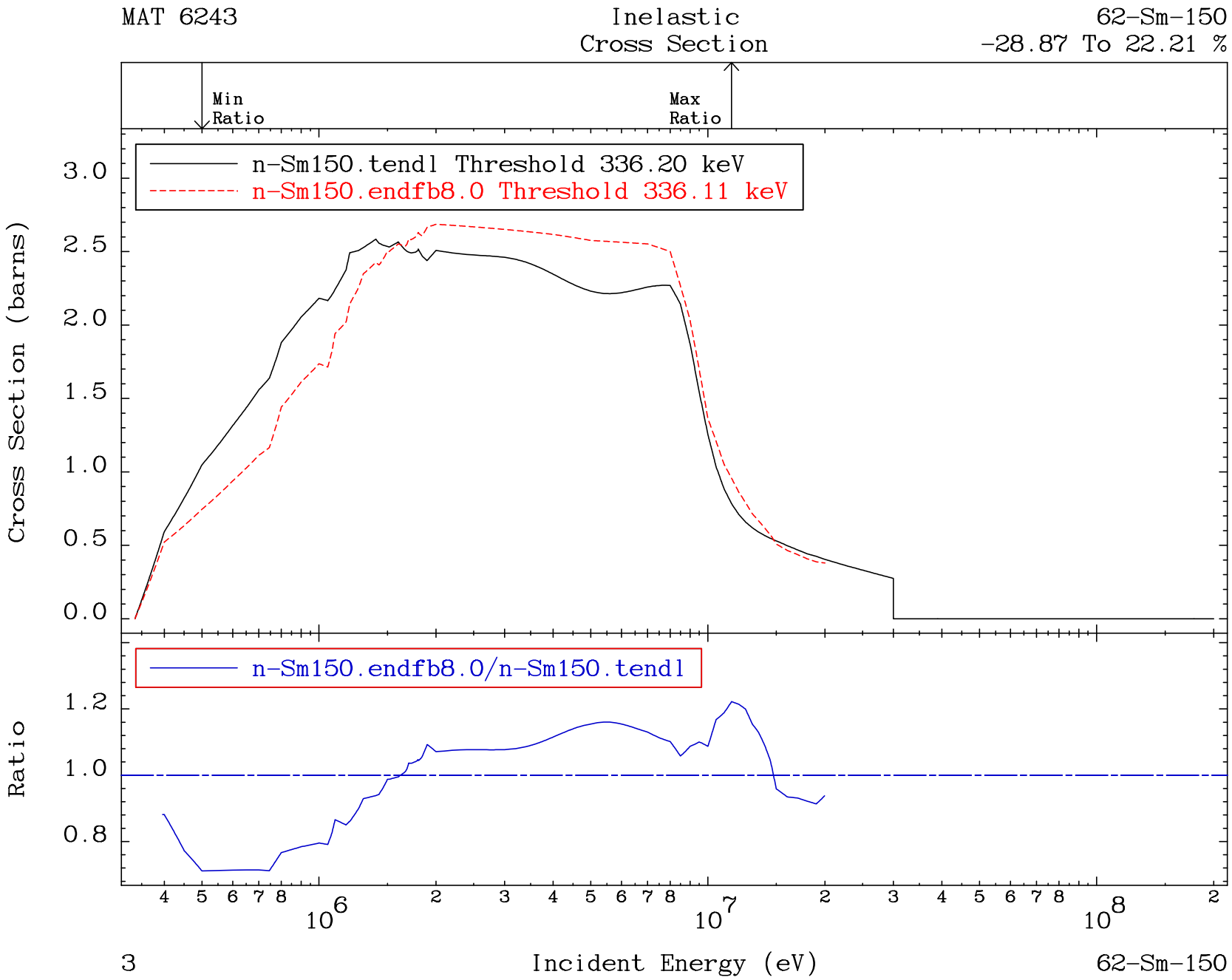
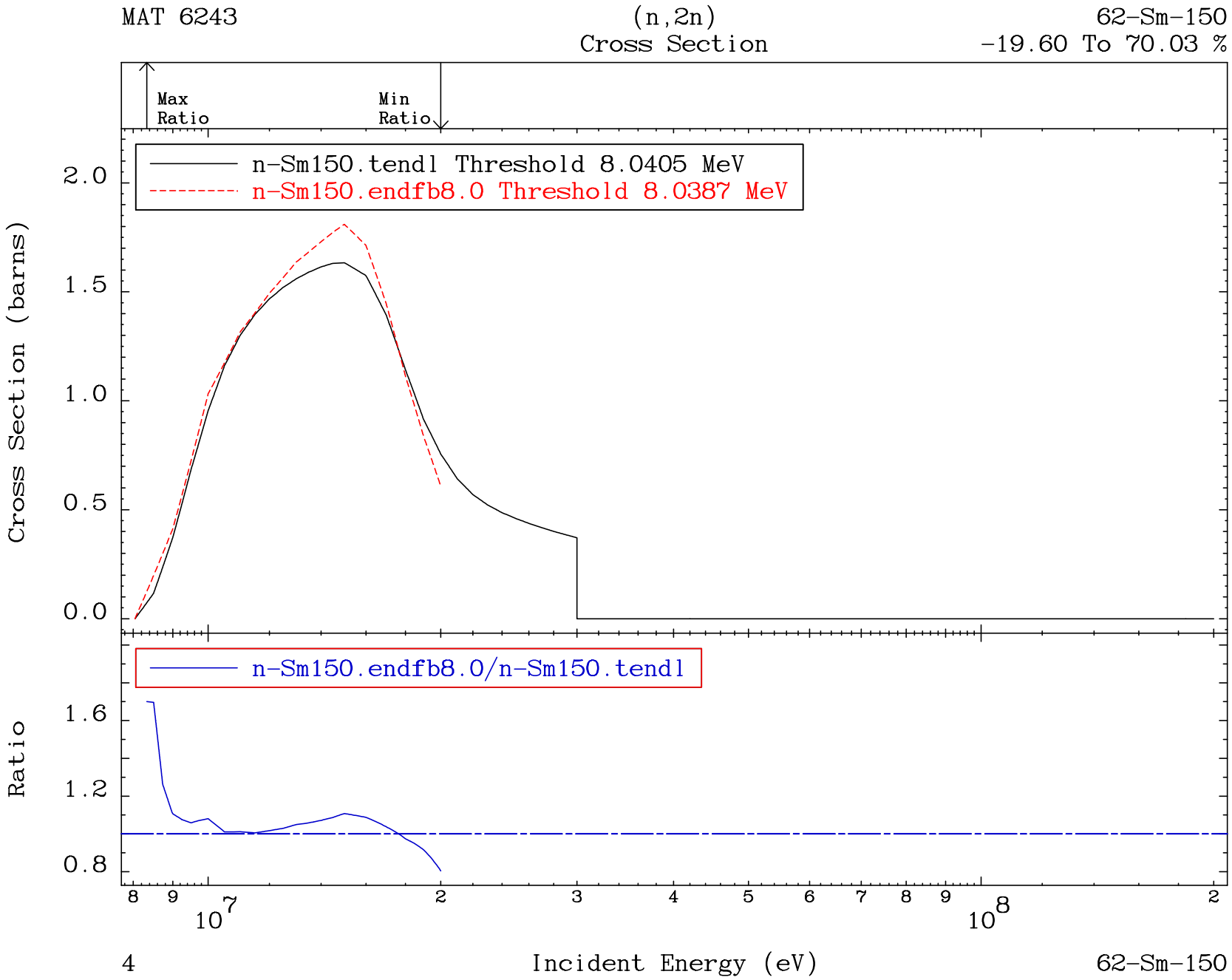
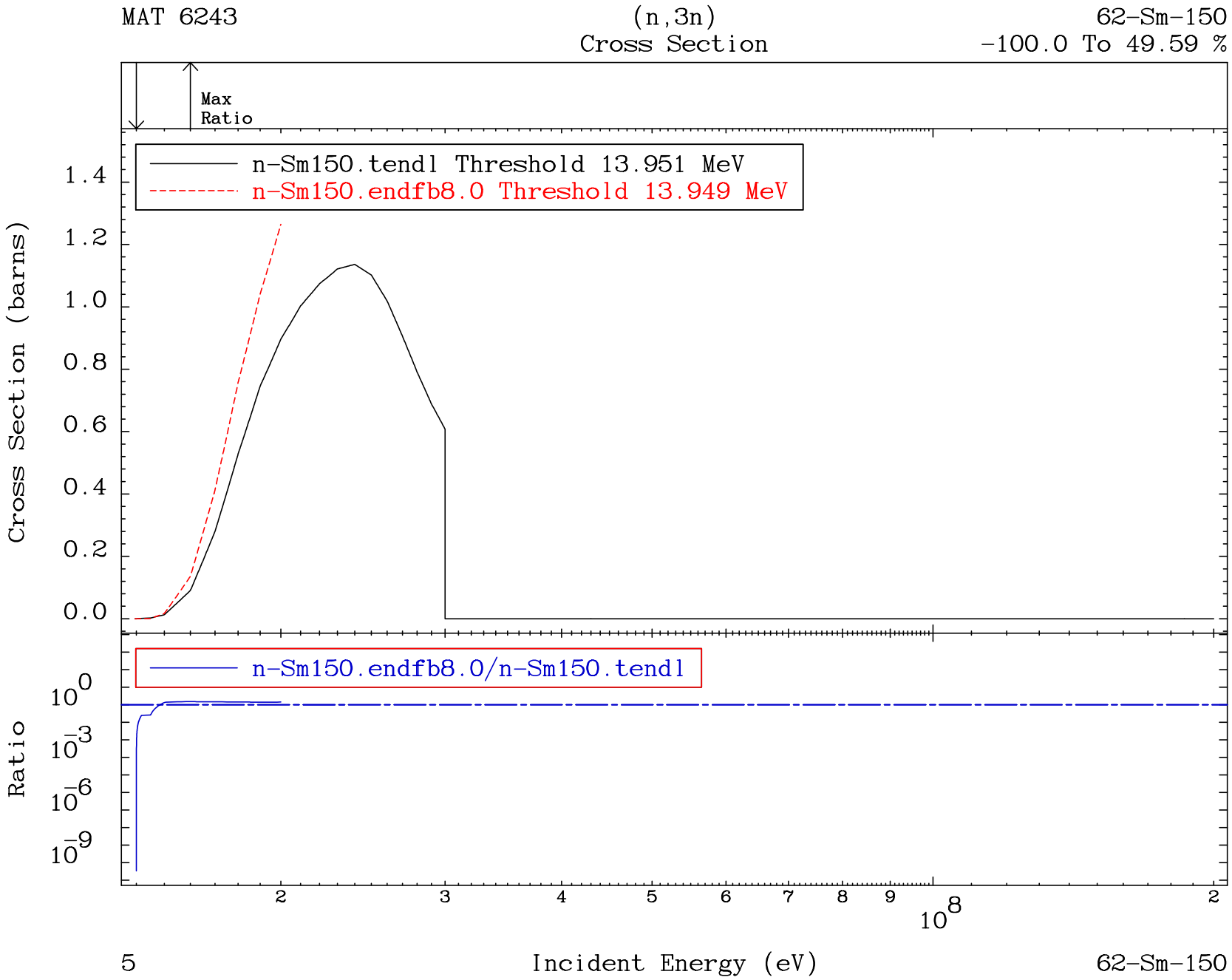
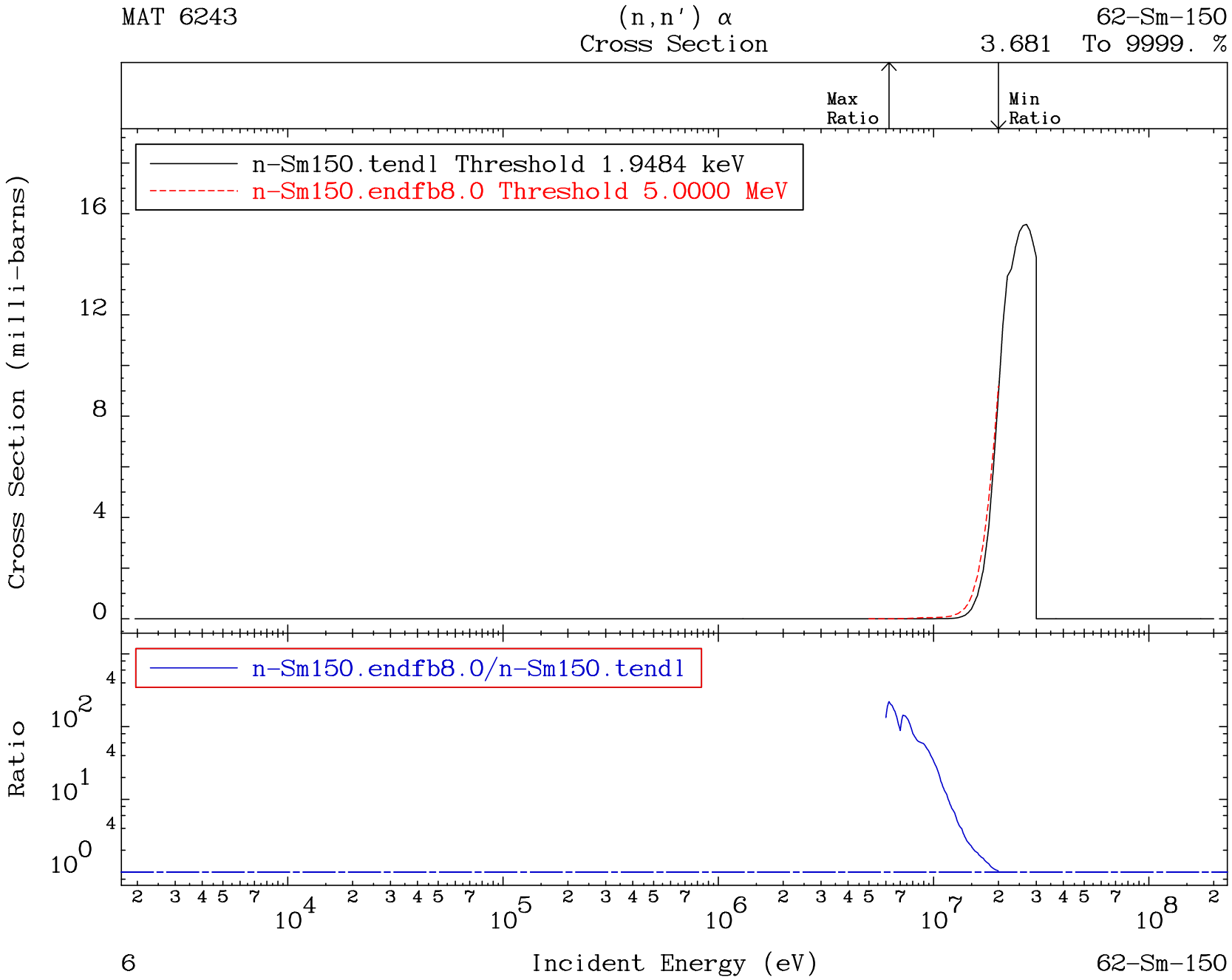

MAT 6243
Total
Cross Section
62-Sm-150
-96.99 To 9999. %
Max Ratio
Min Ratio
n-Sm150.tendl
n-Sm150.endfb8.0
Cross Section (barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
Incident Energy (eV)
1
62-Sm-150

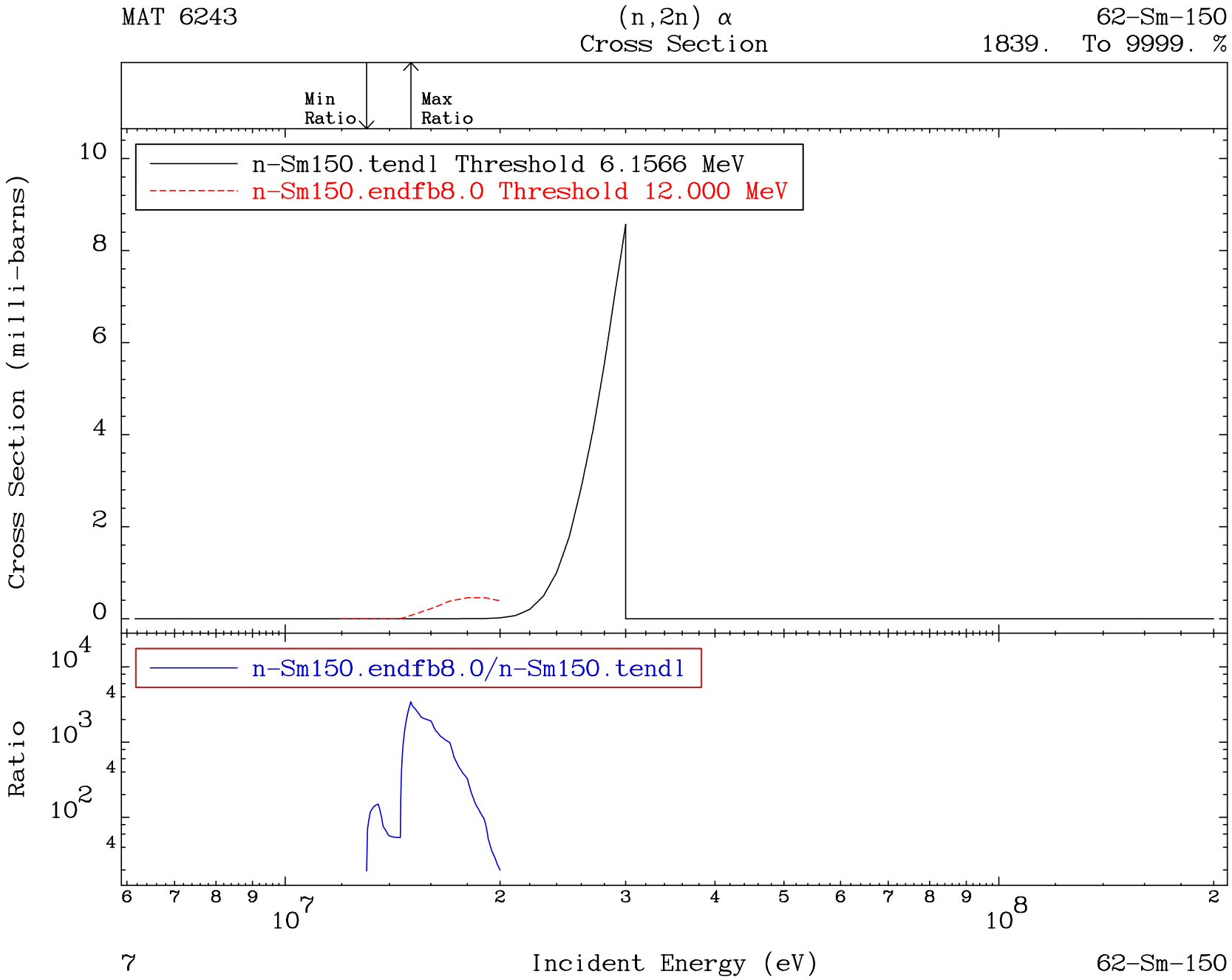

MAT 6243
Elastic
Cross Section
62-Sm-150
-98.17 To 9999. %
Min Ratio
Max Ratio
n-Sm150.tendl
n-Sm150.endfb8.0
Cross Section (barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
Incident Energy (eV)
2
62-Sm-150

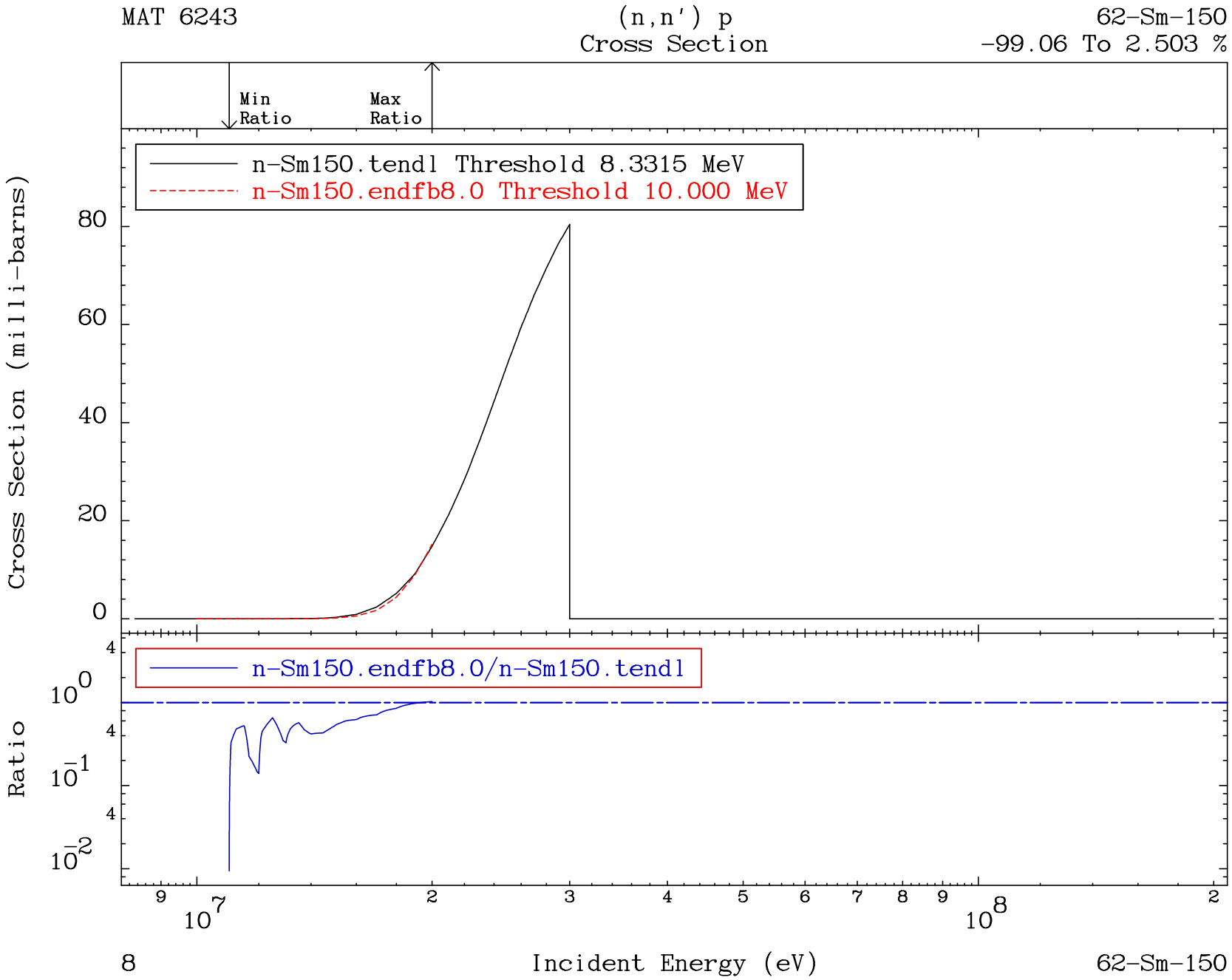

MAT 6243
Inelastic
Cross Section
62-Sm-150
-28.87 To 22.21 %
Min
Ratio
Max
Ratio
n-Sm150.tendl Threshold 336.20 keV
n-Sm150.endfb8.0 Threshold 336.11 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
1.2
1.0
0.8
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
3
62-Sm-150

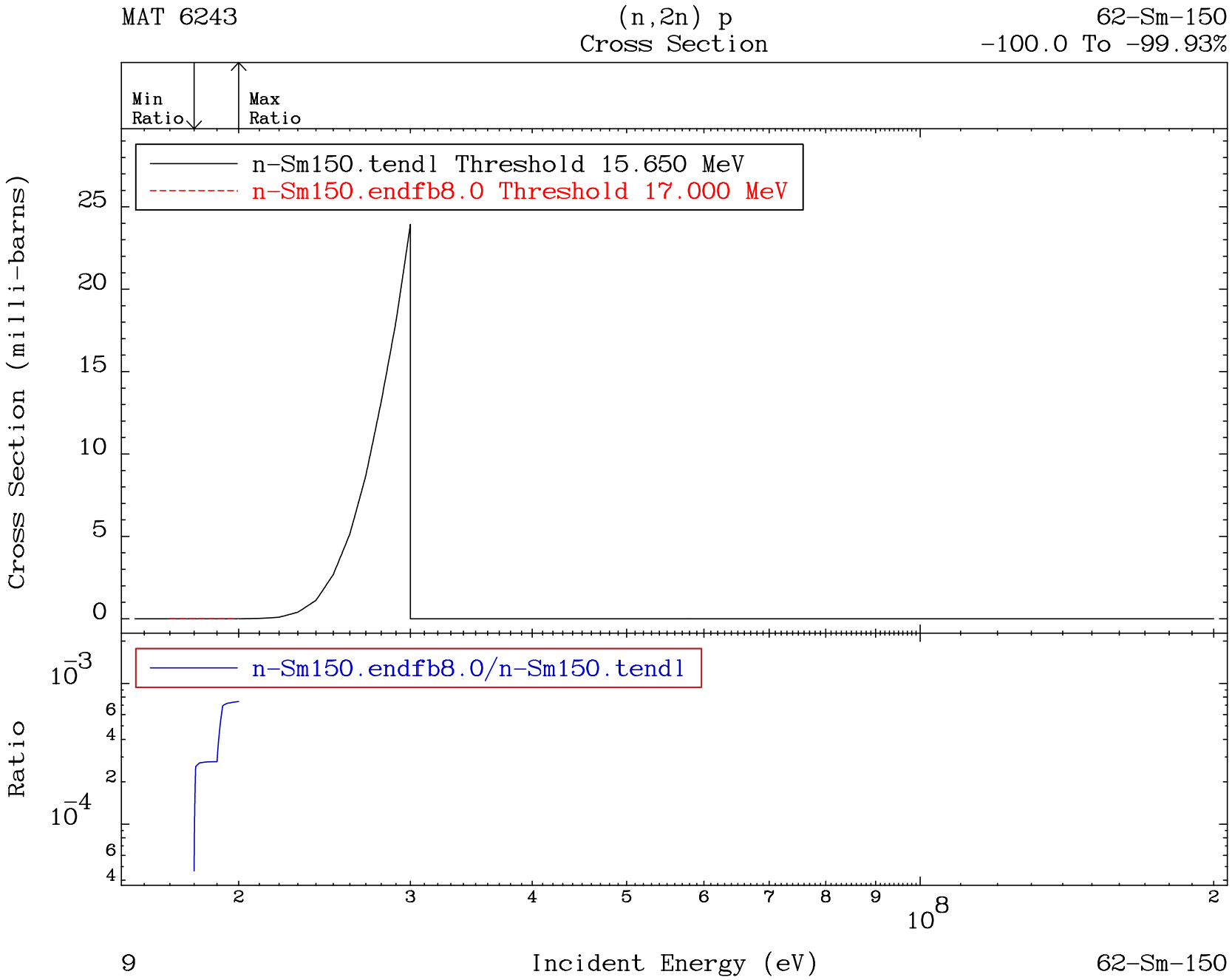

MAT 6243
(n,2n)
Cross Section
62-Sm-150
-19.60 To 70.03 %
Max Ratio
Min Ratio
n-Sm150.tendl Threshold 8.0405 MeV
n-Sm150.endfb8.0 Threshold 8.0387 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
1.6
1.2
0.8
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
62-Sm-150

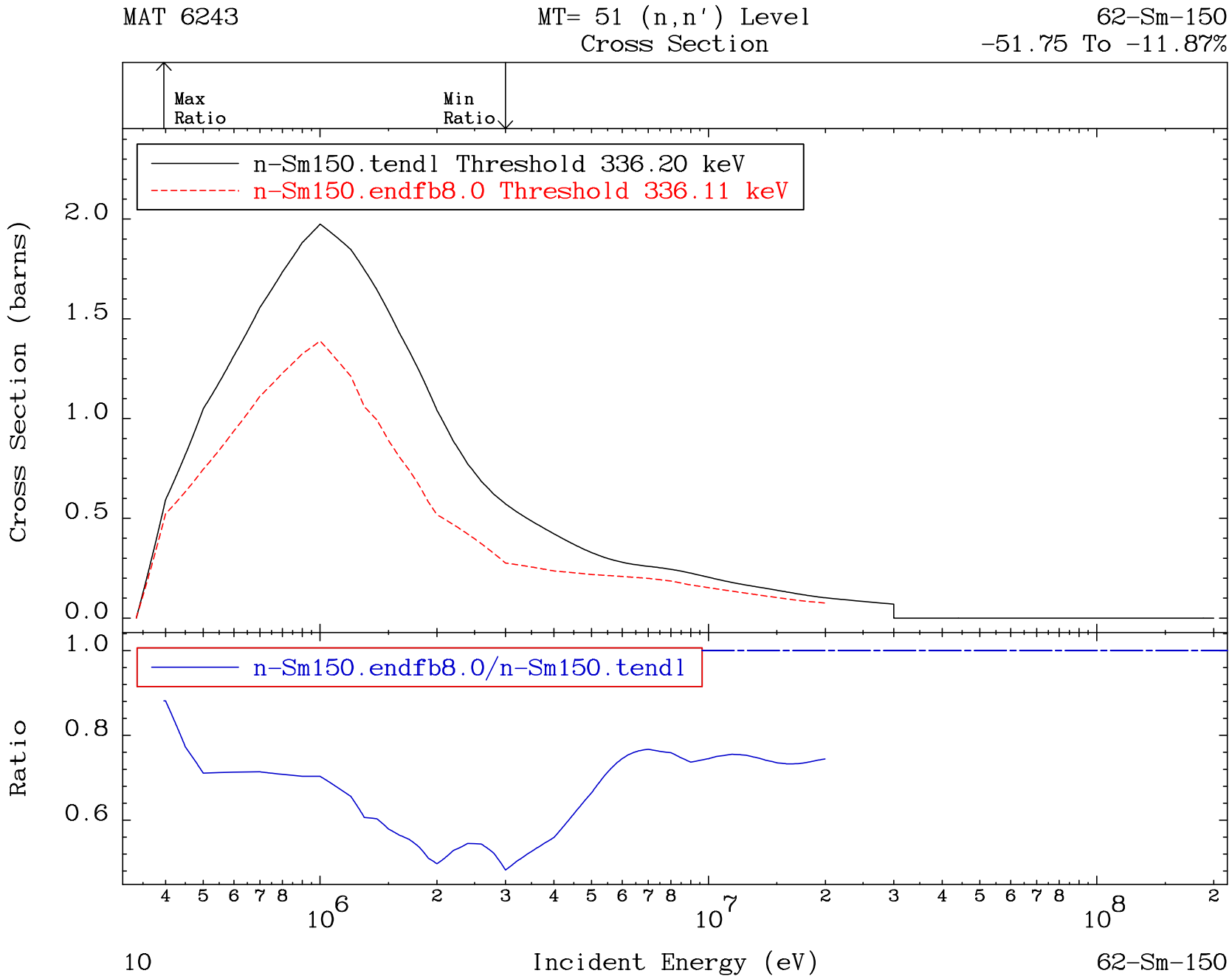

MAT 6243
(n,3n)
Cross Section
62-Sm-150
-100.0 To 49.59 %
Max
Ratio
n-Sm150.tendl Threshold 13.951 MeV
n-Sm150.endfb8.0 Threshold 13.949 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
62-Sm-150

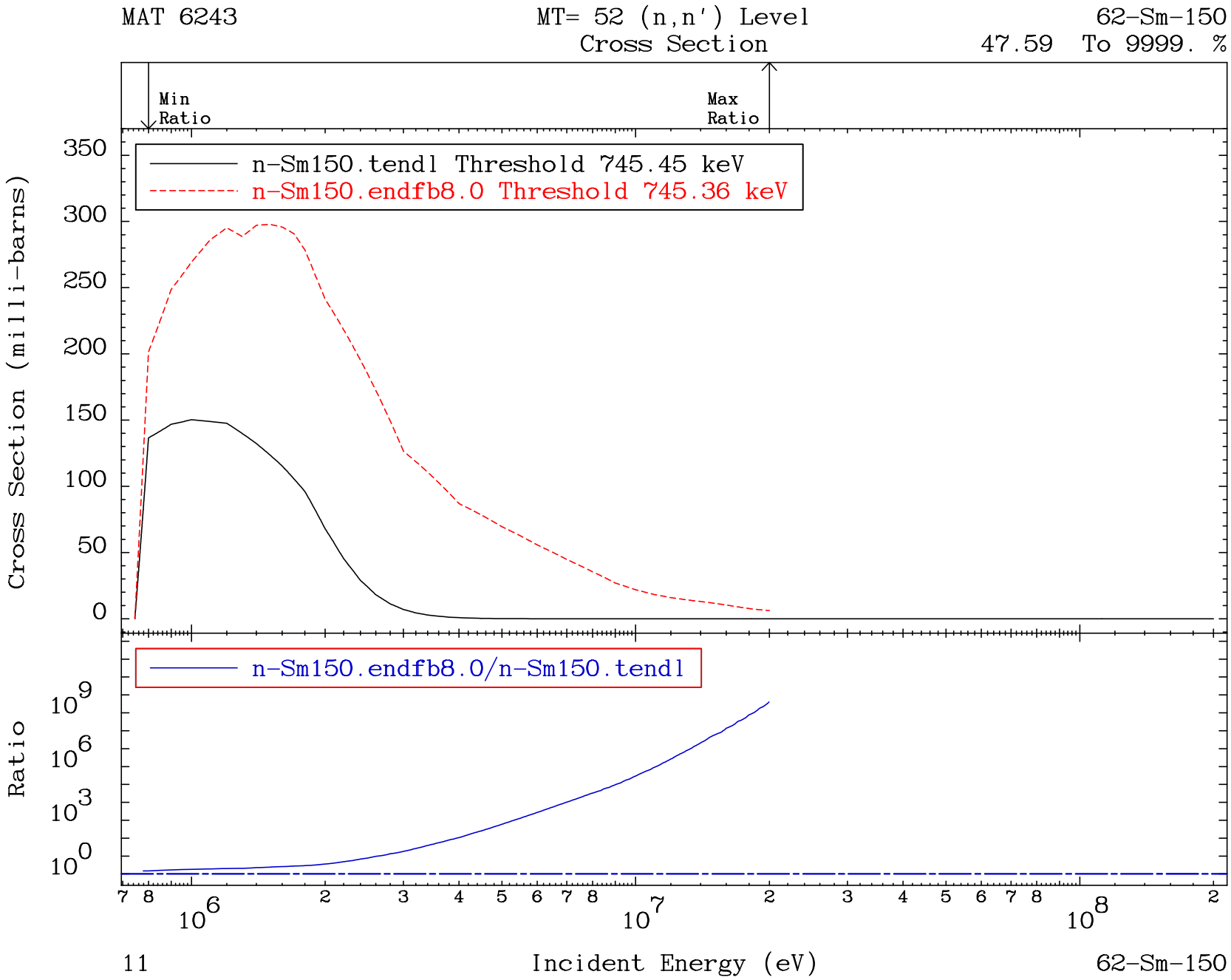

MAT 6243
(n,n') α
Cross Section
62-Sm-150
3.681 To 9999. %
Max Ratio
Min Ratio
n-Sm150.tendl Threshold 1.9484 keV
n-Sm150.endfb8.0 Threshold 5.0000 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^2
10^1
10^0
10^4
10^5
10^6
10^7
10^8
6
Incident Energy (eV)
62-Sm-150

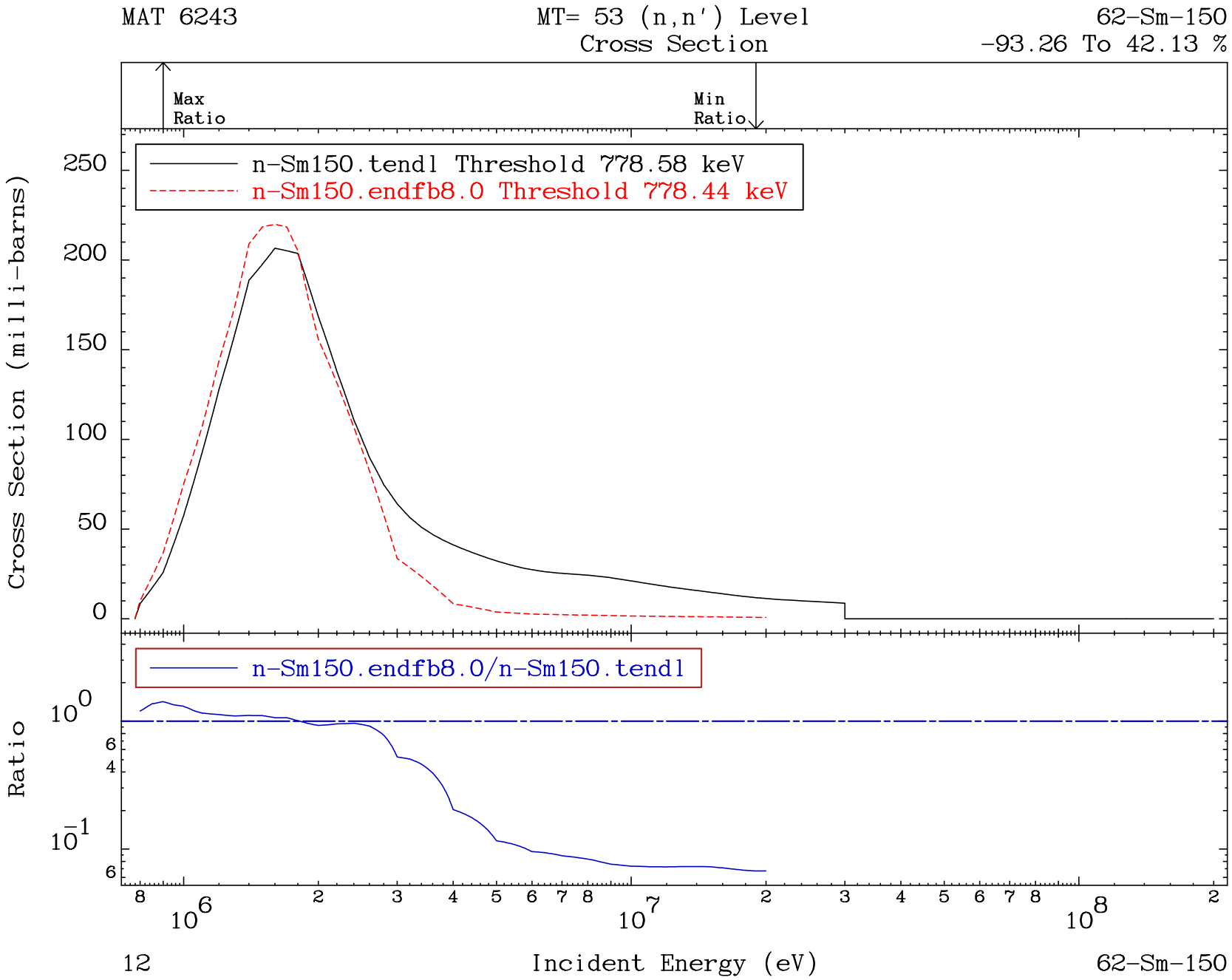

MAT 6243
(n,2n) α
Cross Section
62-Sm-150
1839. To 9999. %
Min Ratio
Max Ratio
n-Sm150.tendl Threshold 6.1566 MeV
n-Sm150.endfb8.0 Threshold 12.000 MeV
Cross Section (milli-barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
Incident Energy (eV)
7
62-Sm-150

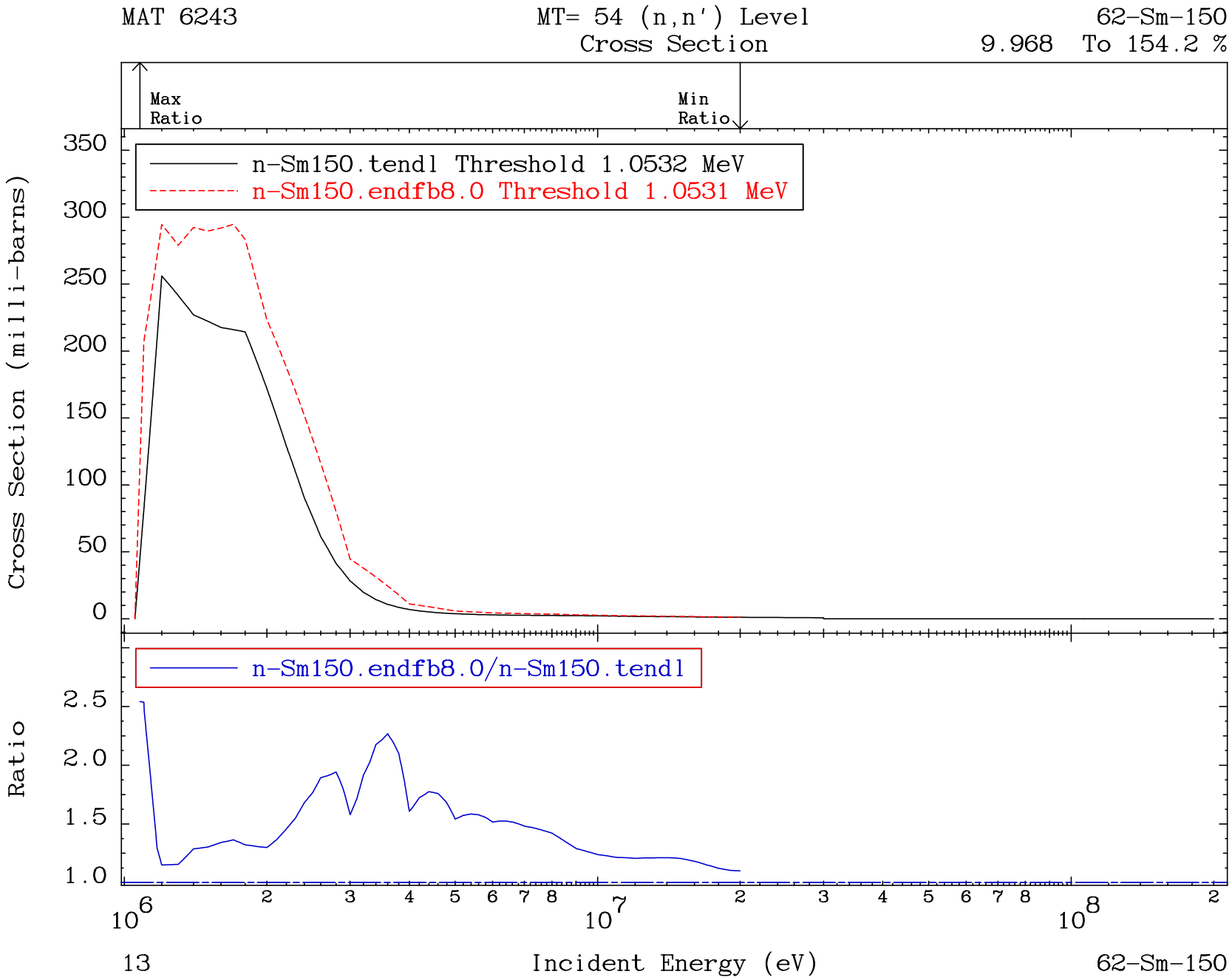

MAT 6243
(n,n') p
Cross Section
62-Sm-150
-99.06 To 2.503 %
Min Ratio
Max Ratio
n-Sm150.tendl Threshold 8.3315 MeV
n-Sm150.endfb8.0 Threshold 10.000 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-1
10^-2
10^7
10^8
Incident Energy (eV)
8
62-Sm-150

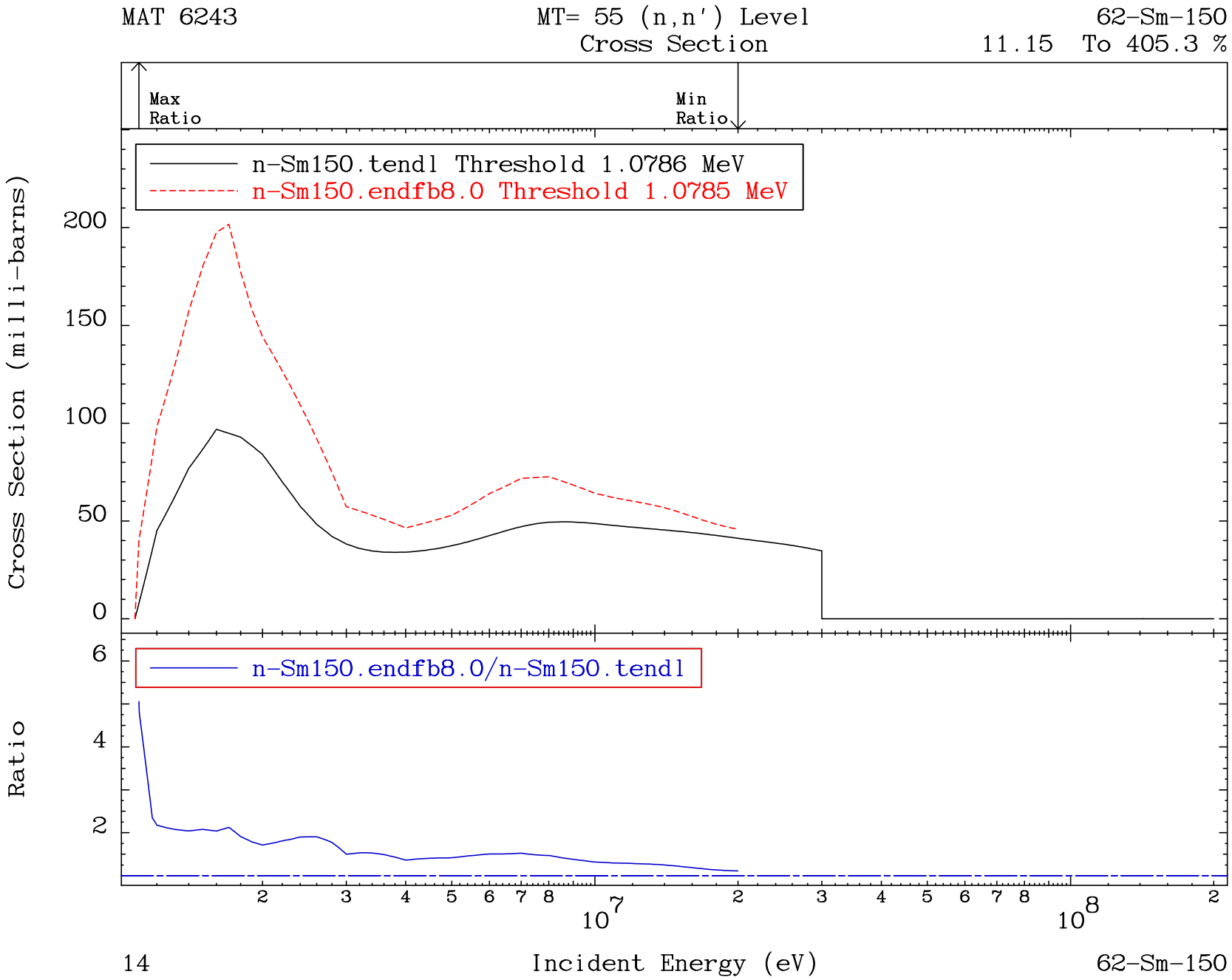

MAT 6243
(n,2n) p
Cross Section
62-Sm-150
-100.0 To -99.93%
Min Ratio
Max Ratio
n-Sm150.tendl Threshold 15.650 MeV
n-Sm150.endfb8.0 Threshold 17.000 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^-3
6
4
2
10^-4
6
4
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
62-Sm-150

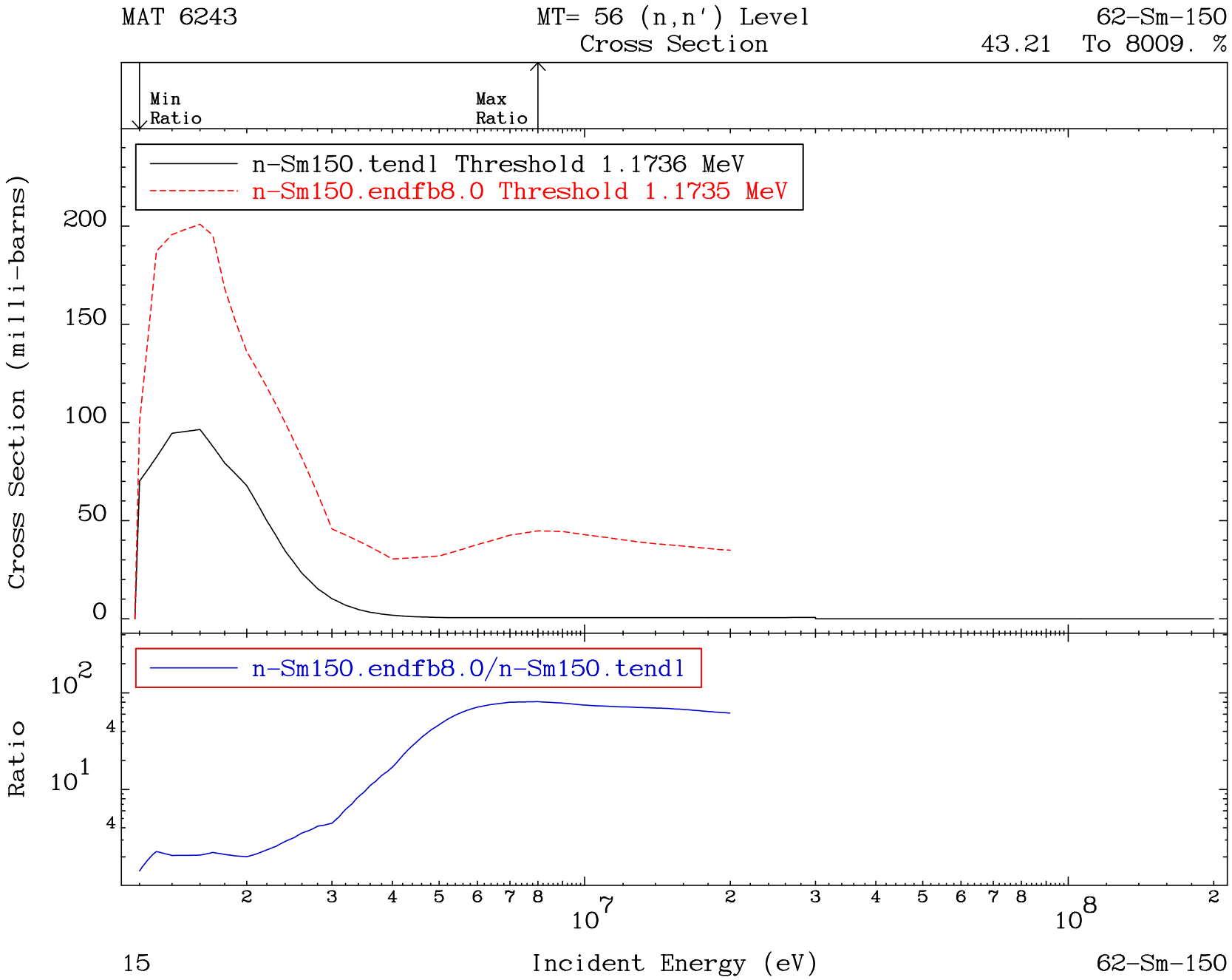

MAT 6243
MT= 51 (n,n') Level
Cross Section
62-Sm-150
-51.75 To -11.87%
Max Ratio
Min Ratio
n-Sm150.tendl Threshold 336.20 keV
n-Sm150.endfb8.0 Threshold 336.11 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
1.0
0.8
0.6
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
10
Incident Energy (eV)
62-Sm-150

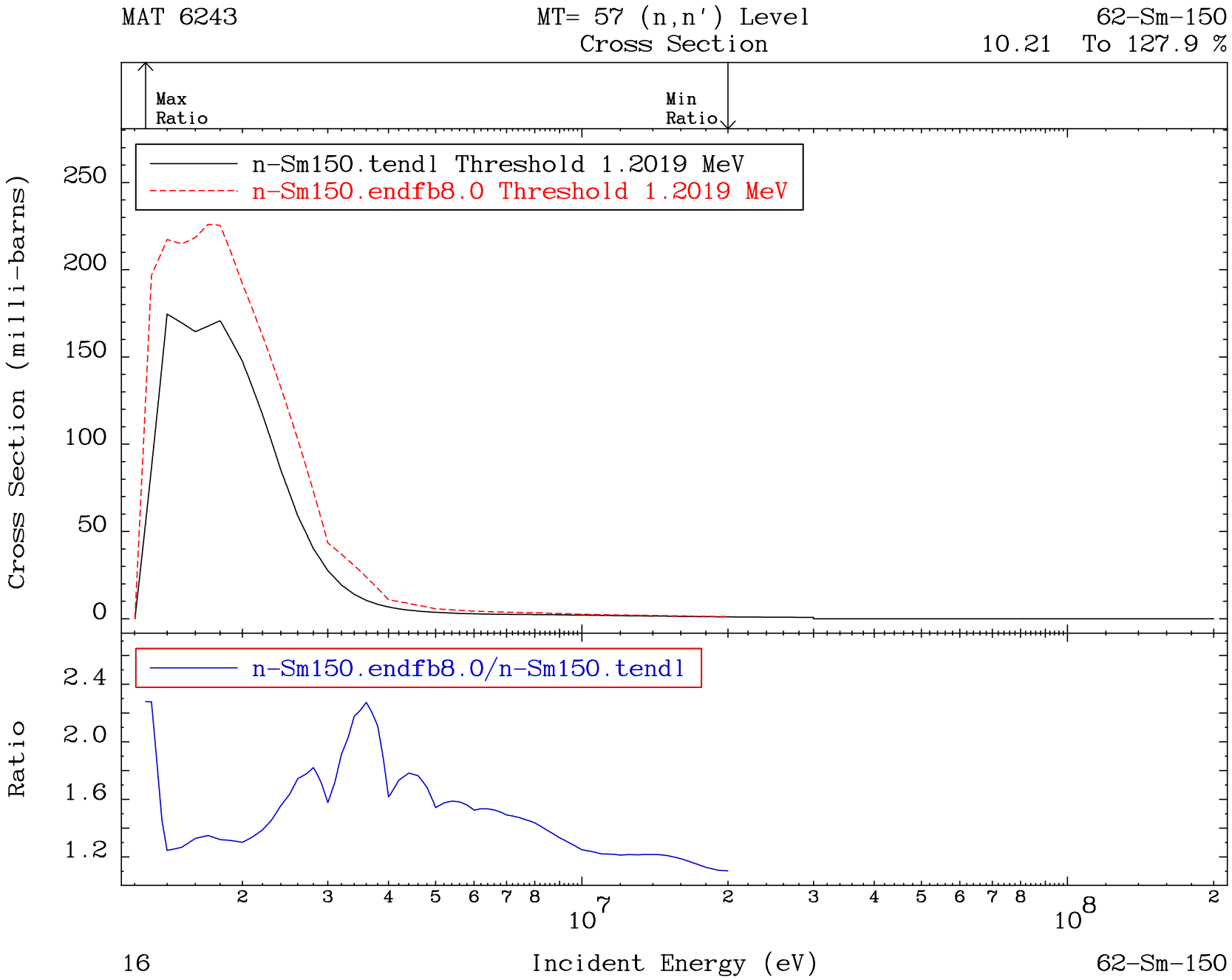

MAT 6243
MT= 52 (n,n') Level
Cross Section
62-Sm-150
47.59 To 9999. %
Min Ratio
Max Ratio
n-Sm150.tendl Threshold 745.45 keV
n-Sm150.endfb8.0 Threshold 745.36 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^9
10^6
10^3
10^0
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
62-Sm-150

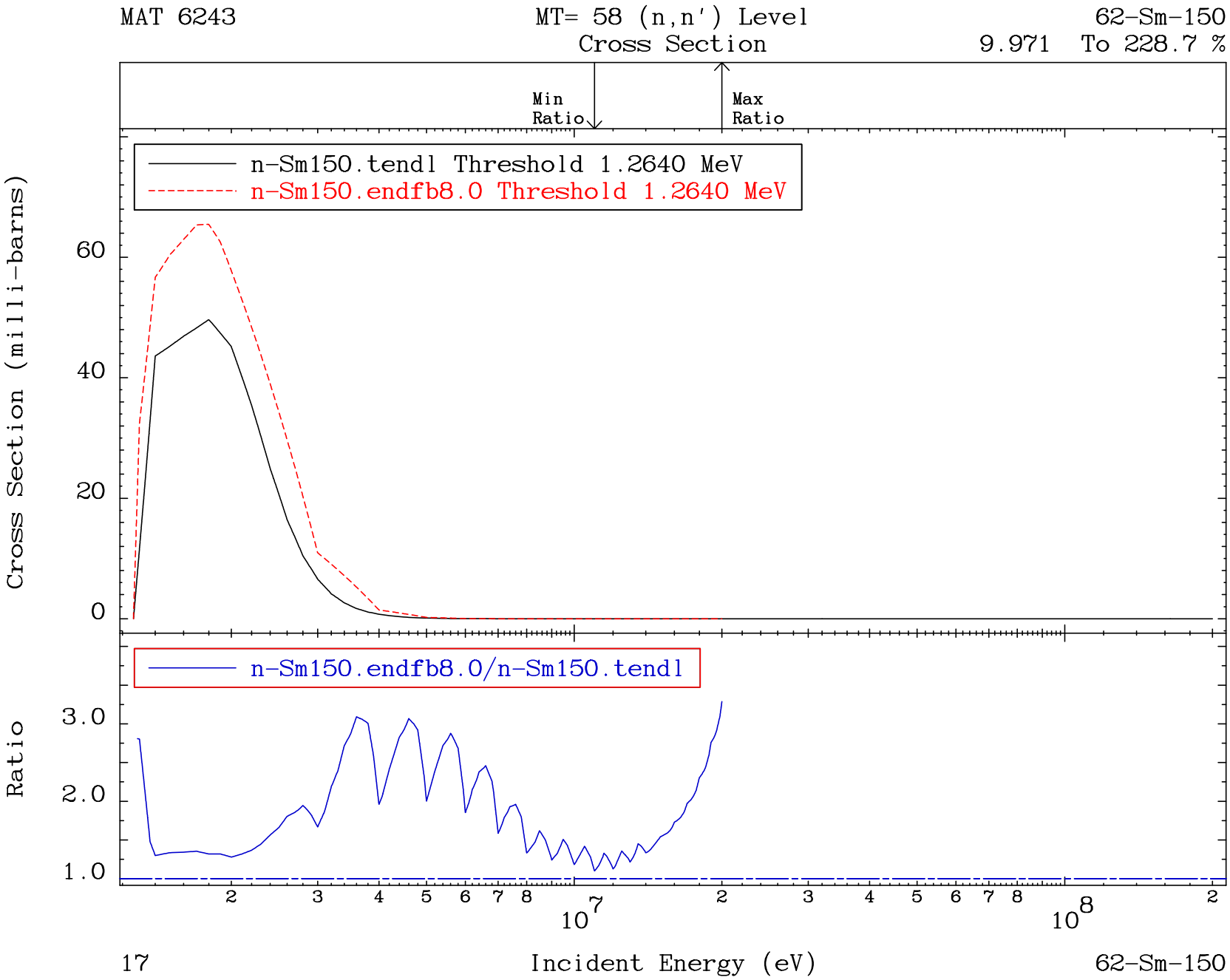

MAT 6243
MT= 53 (n,n') Level
Cross Section
62-Sm-150
-93.26 To 42.13 %
Max Ratio
Min Ratio
n-Sm150.tendl Threshold 778.58 keV
n-Sm150.endfb8.0 Threshold 778.44 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
6
4
10^-1
6
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
62-Sm-150

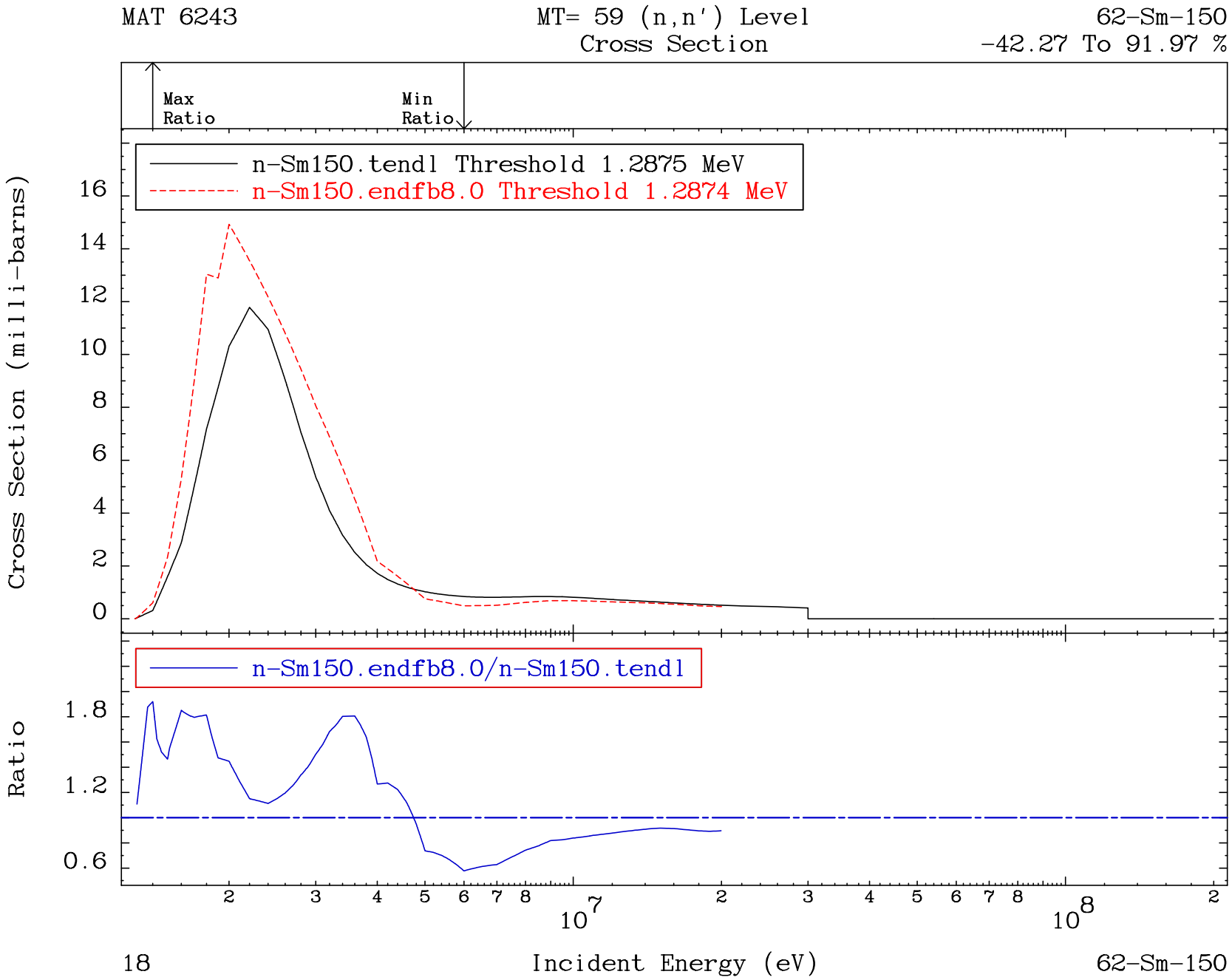

MAT 6243
MT= 54 (n,n') Level
Cross Section
62-Sm-150
9.968 To 154.2 %
Max Ratio
Min Ratio
n-Sm150.tendl Threshold 1.0532 MeV
n-Sm150.endfb8.0 Threshold 1.0531 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
2.5
2.0
1.5
1.0
10^6
10^7
10^8
2 3 4 5 6 7 8
13
Incident Energy (eV)
62-Sm-150

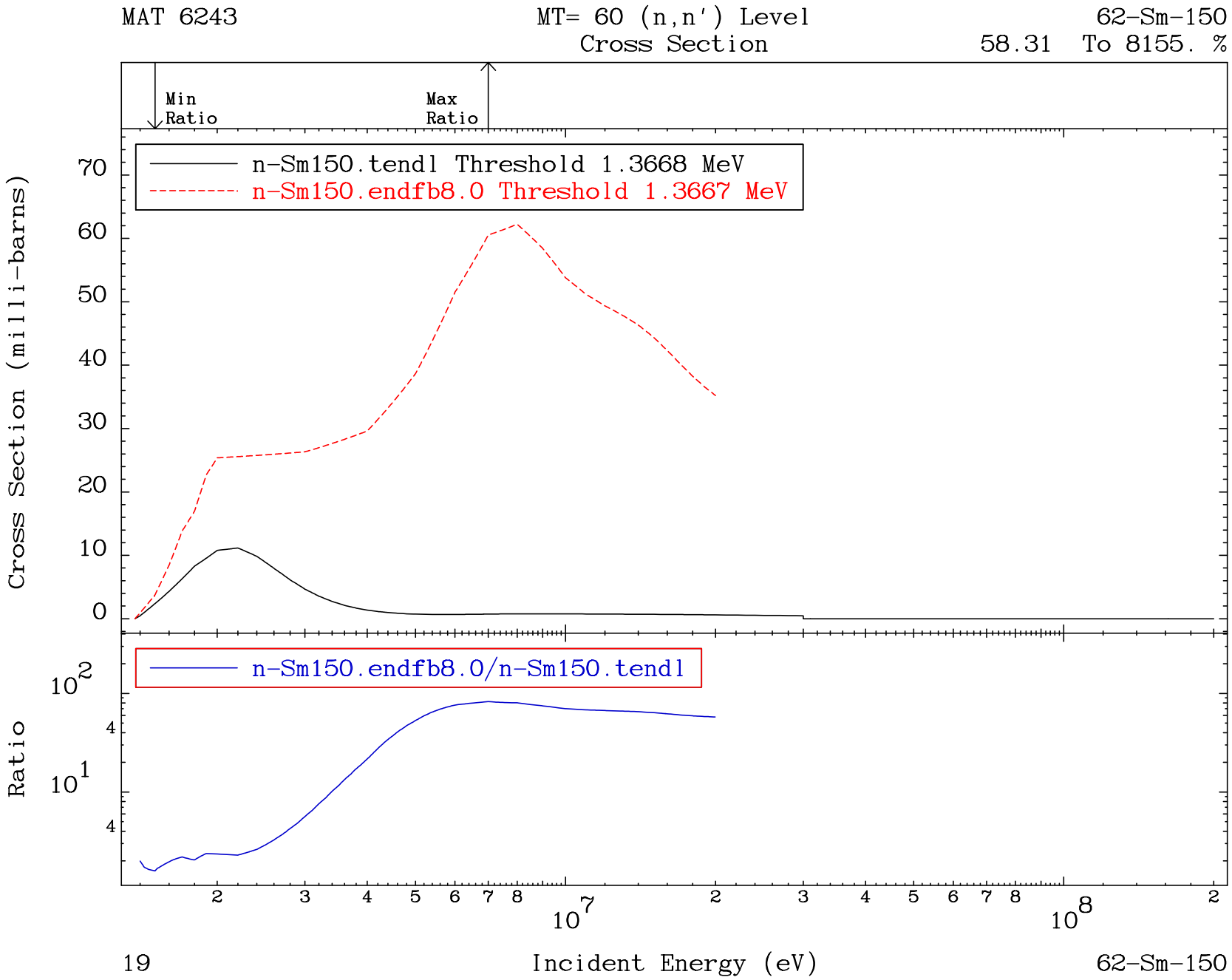

MAT 6243
MT= 55 (n,n') Level
Cross Section
62-Sm-150
11.15 To 405.3 %
Max Ratio
Min Ratio
n-Sm150.tendl Threshold 1.0786 MeV
n-Sm150.endfb8.0 Threshold 1.0785 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
6
4
2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
62-Sm-150

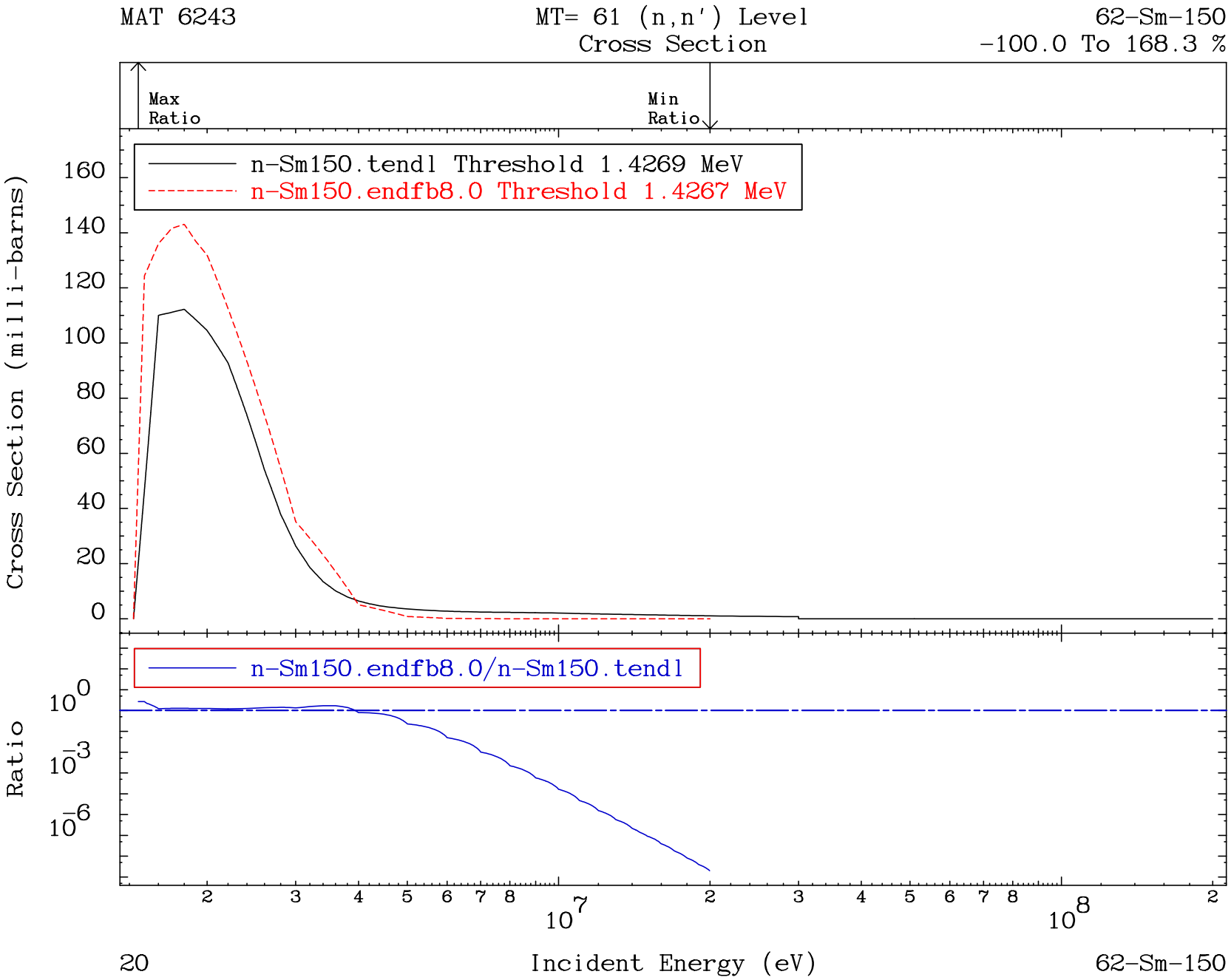

MAT 6243
MT= 56 (n,n') Level
Cross Section
62-Sm-150
43.21 To 8009. %
Min Ratio
Max Ratio
n-Sm150.tendl Threshold 1.1736 MeV
n-Sm150.endfb8.0 Threshold 1.1735 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^2
10^1
4
4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
62-Sm-150

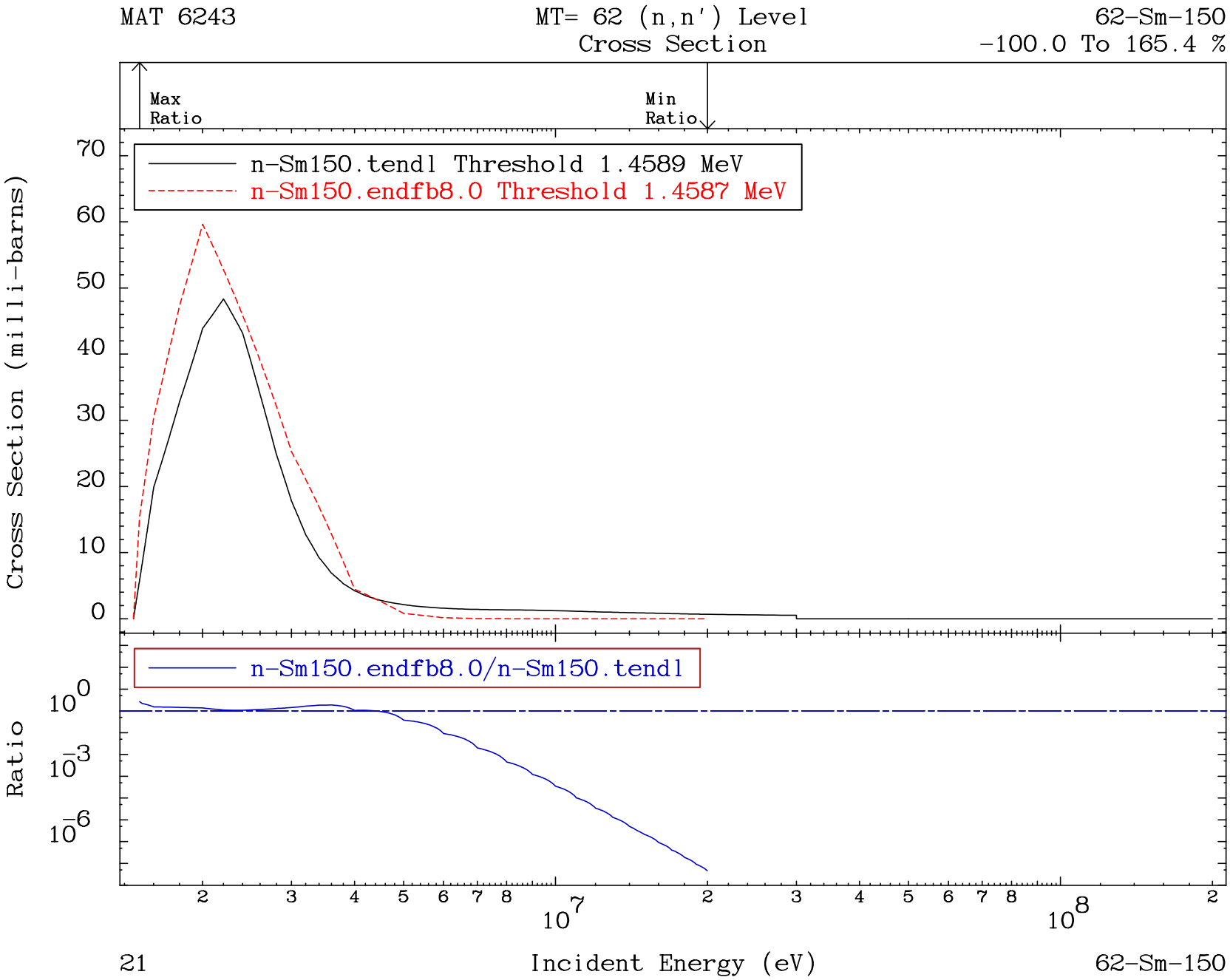

MAT 6243
MT= 57 (n,n') Level
Cross Section
62-Sm-150
10.21 To 127.9 %
Max Ratio
Min Ratio
n-Sm150.tendl Threshold 1.2019 MeV
n-Sm150.endfb8.0 Threshold 1.2019 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
2.4
2.0
1.6
1.2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
62-Sm-150

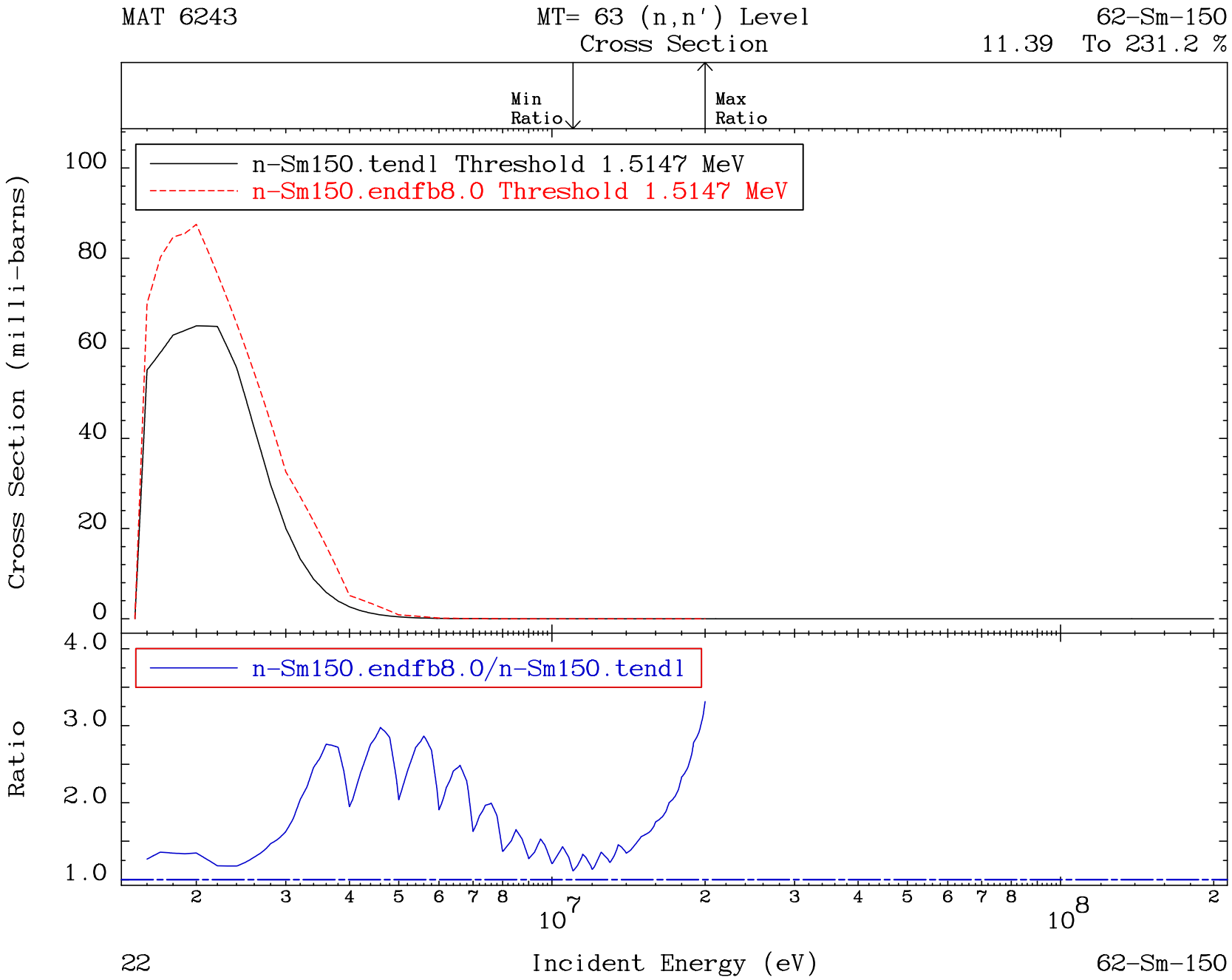

MAT 6243
MT= 58 (n,n') Level
Cross Section
62-Sm-150
9.971 To 228.7 %
Min Ratio
Max Ratio
n-Sm150.tendl Threshold 1.2640 MeV
n-Sm150.endfb8.0 Threshold 1.2640 MeV
Cross Section (milli-barns)
60
40
20
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
3.0
2.0
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
62-Sm-150

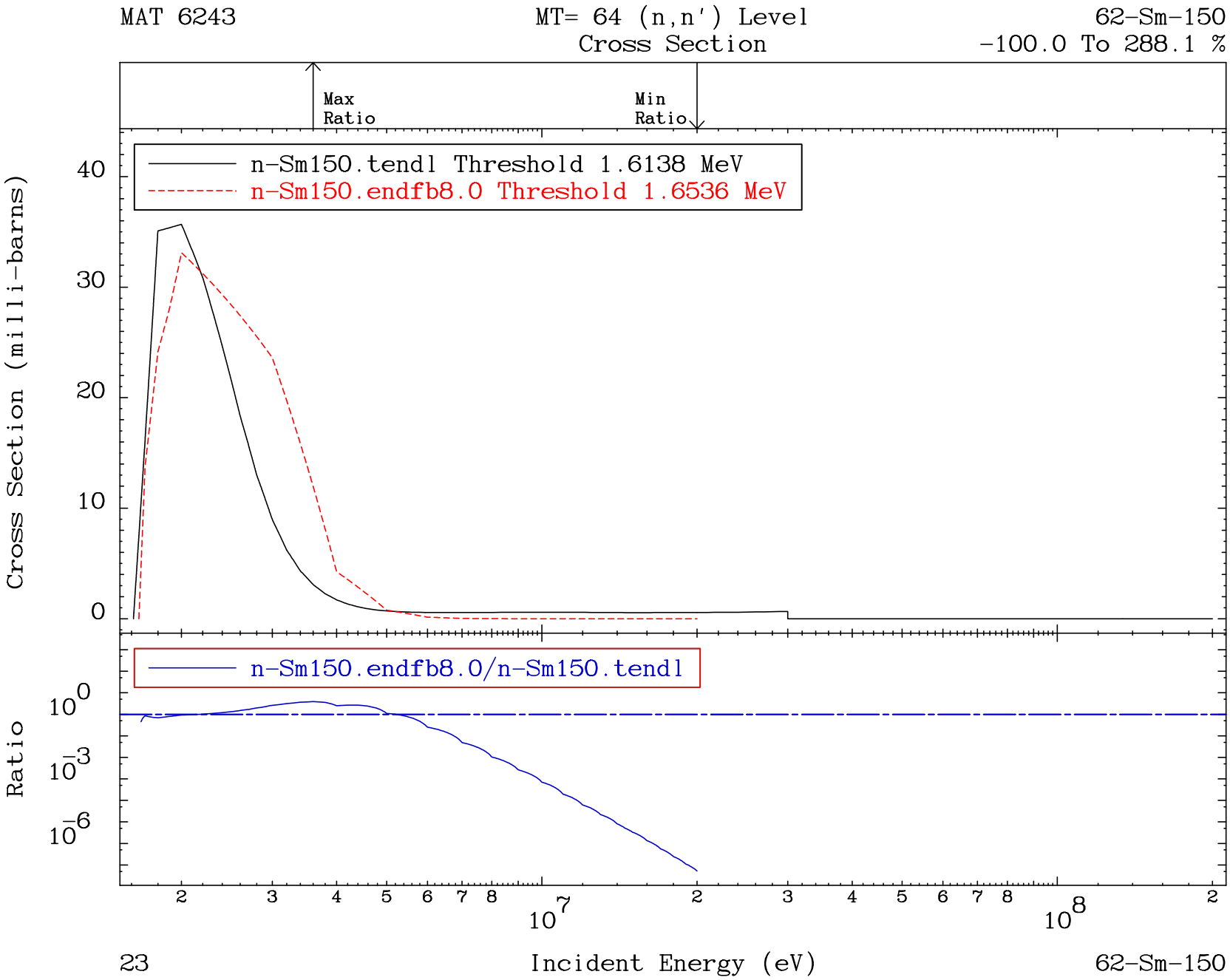

MAT 6243
MT= 59 (n,n') Level
Cross Section
62-Sm-150
-42.27 To 91.97 %
Max Ratio
Min Ratio
n-Sm150.tendl Threshold 1.2875 MeV
n-Sm150.endfb8.0 Threshold 1.2874 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
1.8
1.2
0.6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
62-Sm-150

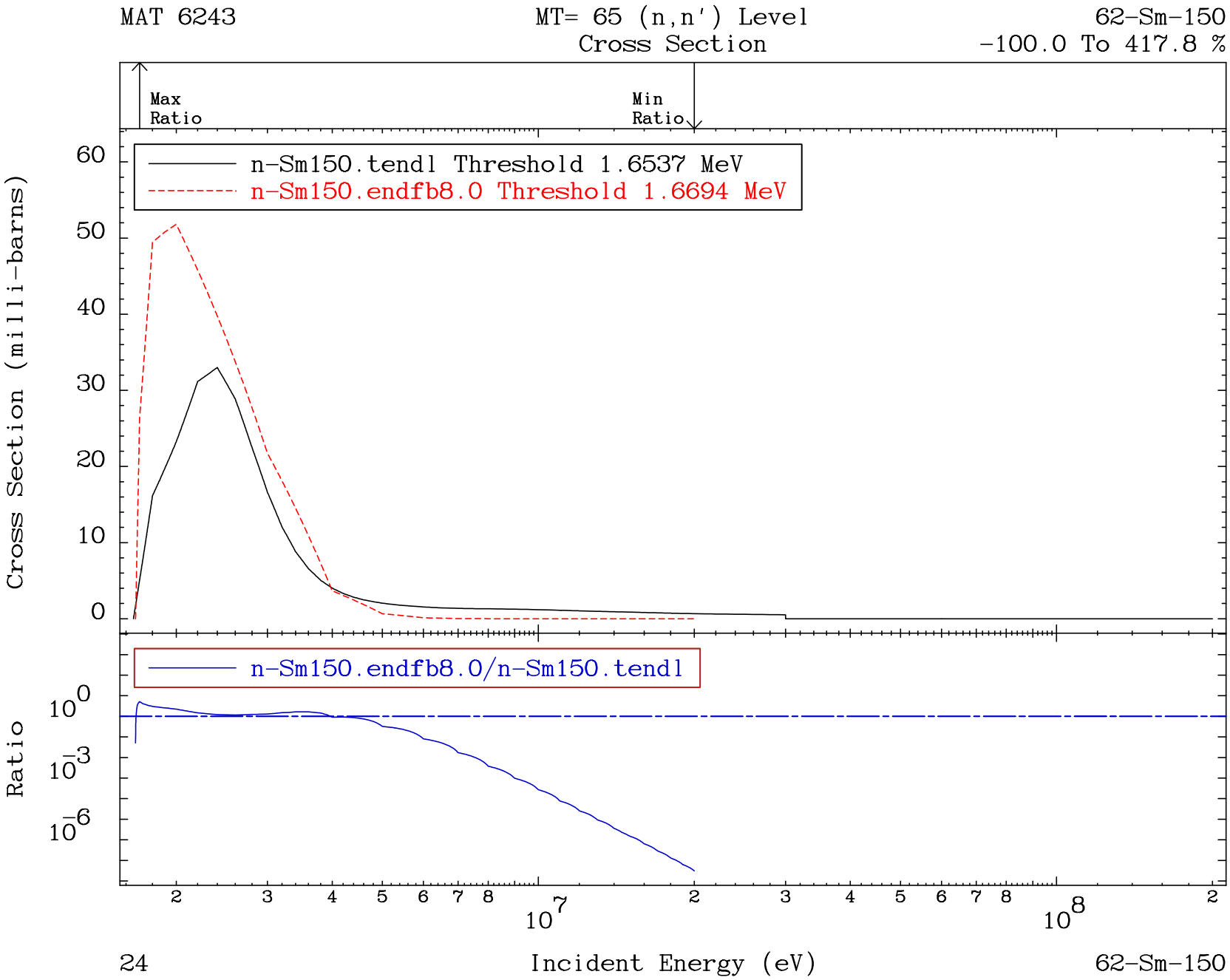

MAT 6243
MT= 60 (n,n') Level
Cross Section
62-Sm-150
58.31 To 8155. %
Min Ratio
Max Ratio
n-Sm150.tendl Threshold 1.3668 MeV
n-Sm150.endfb8.0 Threshold 1.3667 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^2
10^1
4
4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
19
Incident Energy (eV)
62-Sm-150

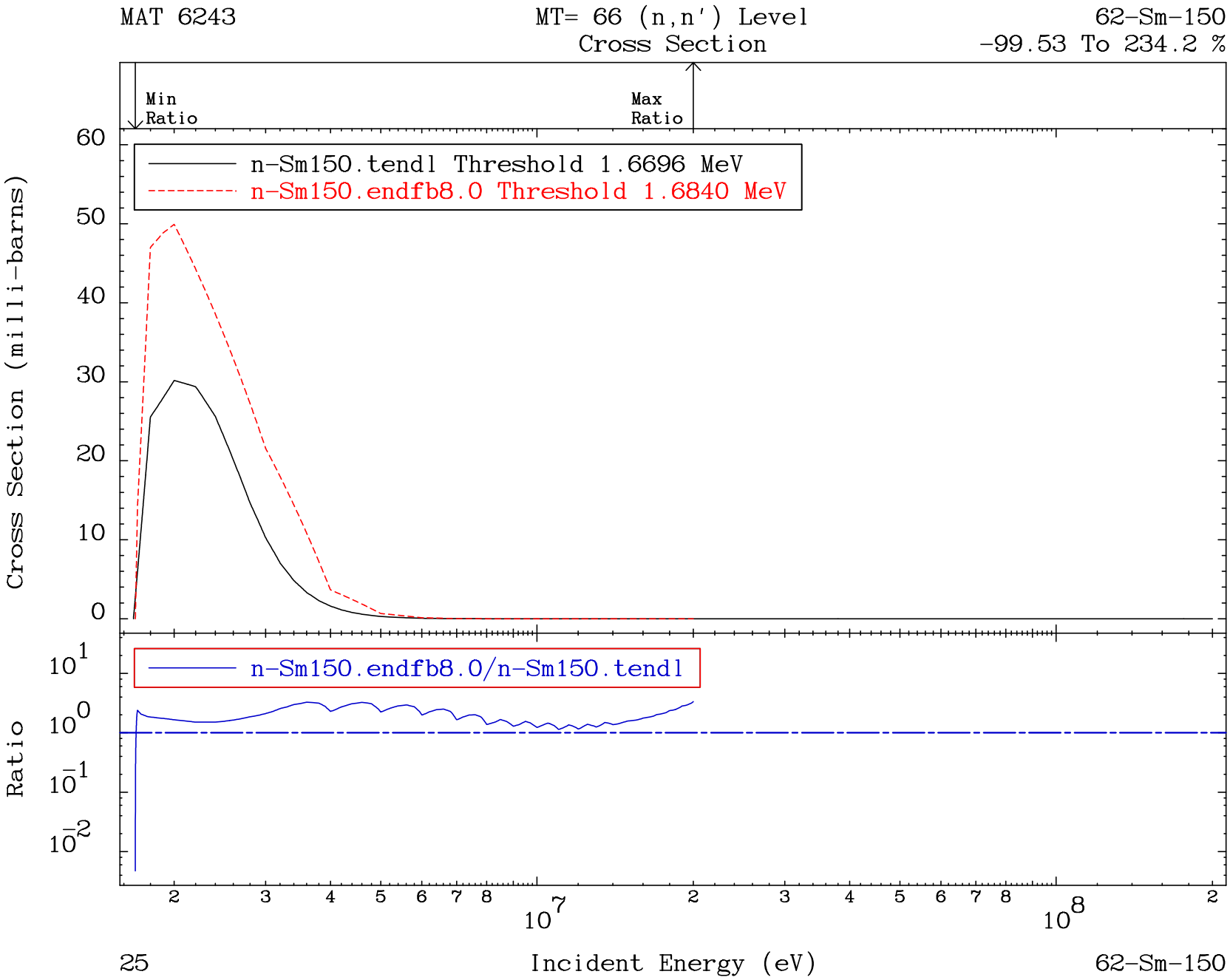

MAT 6243
MT= 61 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 168.3 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.4269 MeV
n-Sm150.endfb8.0 Threshold 1.4267 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
62-Sm-150

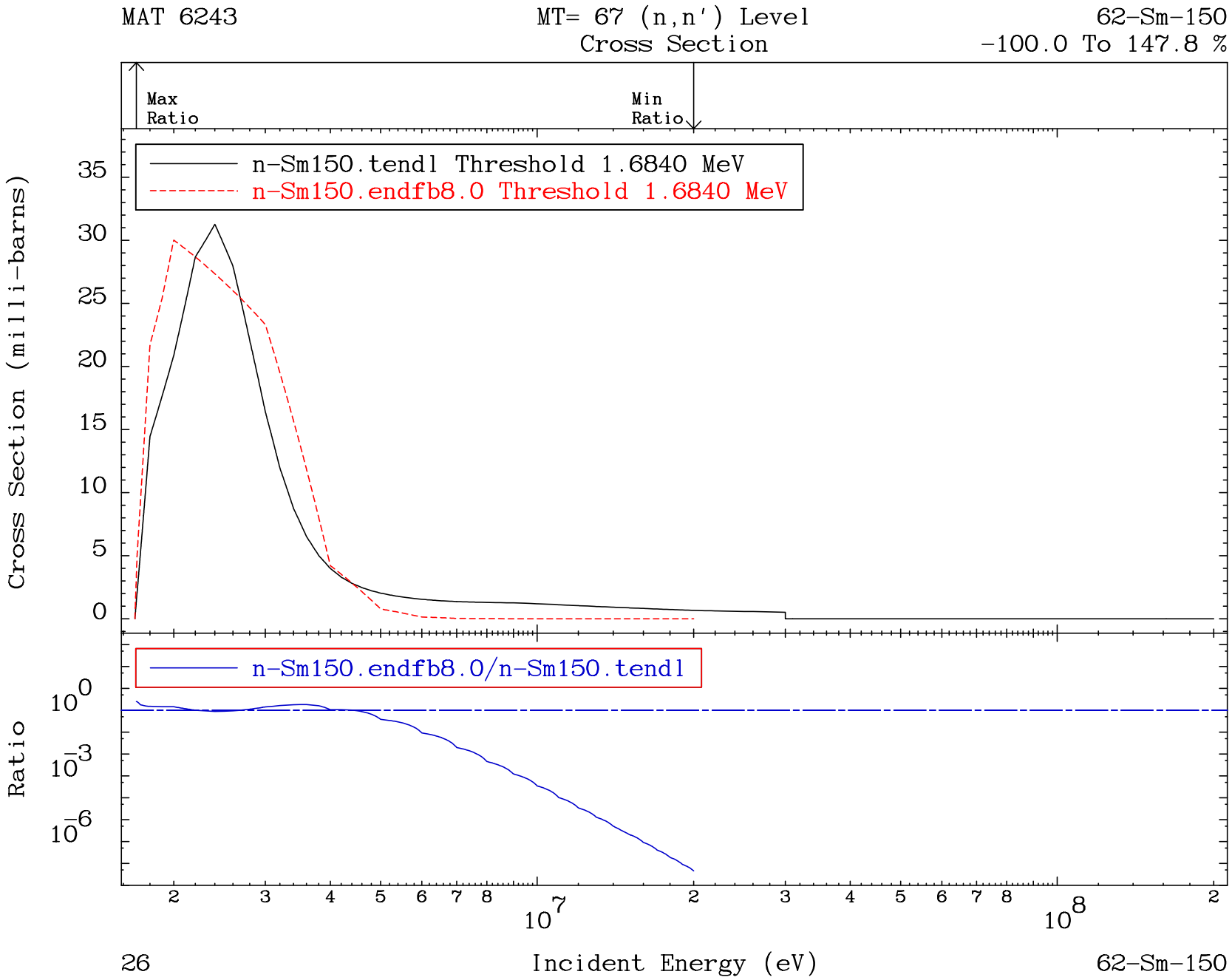

MAT 6243
MT= 62 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 165.4 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.4589 MeV
n-Sm150.endfb8.0 Threshold 1.4587 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
62-Sm-150

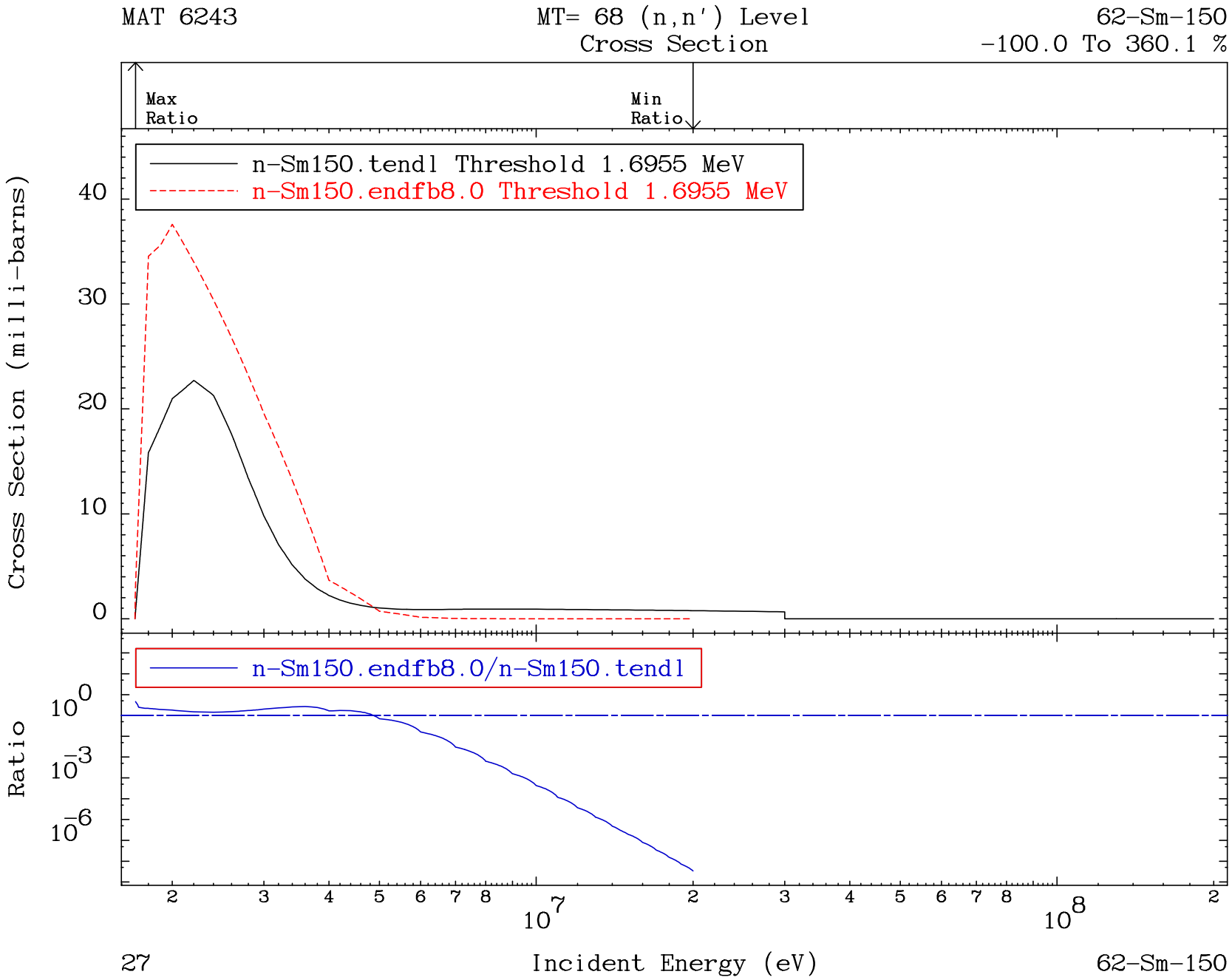

MAT 6243
MT= 63 (n,n') Level
Cross Section
62-Sm-150
11.39 To 231.2 %
Min Ratio
Max Ratio
n-Sm150.tendl Threshold 1.5147 MeV
n-Sm150.endfb8.0 Threshold 1.5147 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
4.0
3.0
2.0
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
62-Sm-150

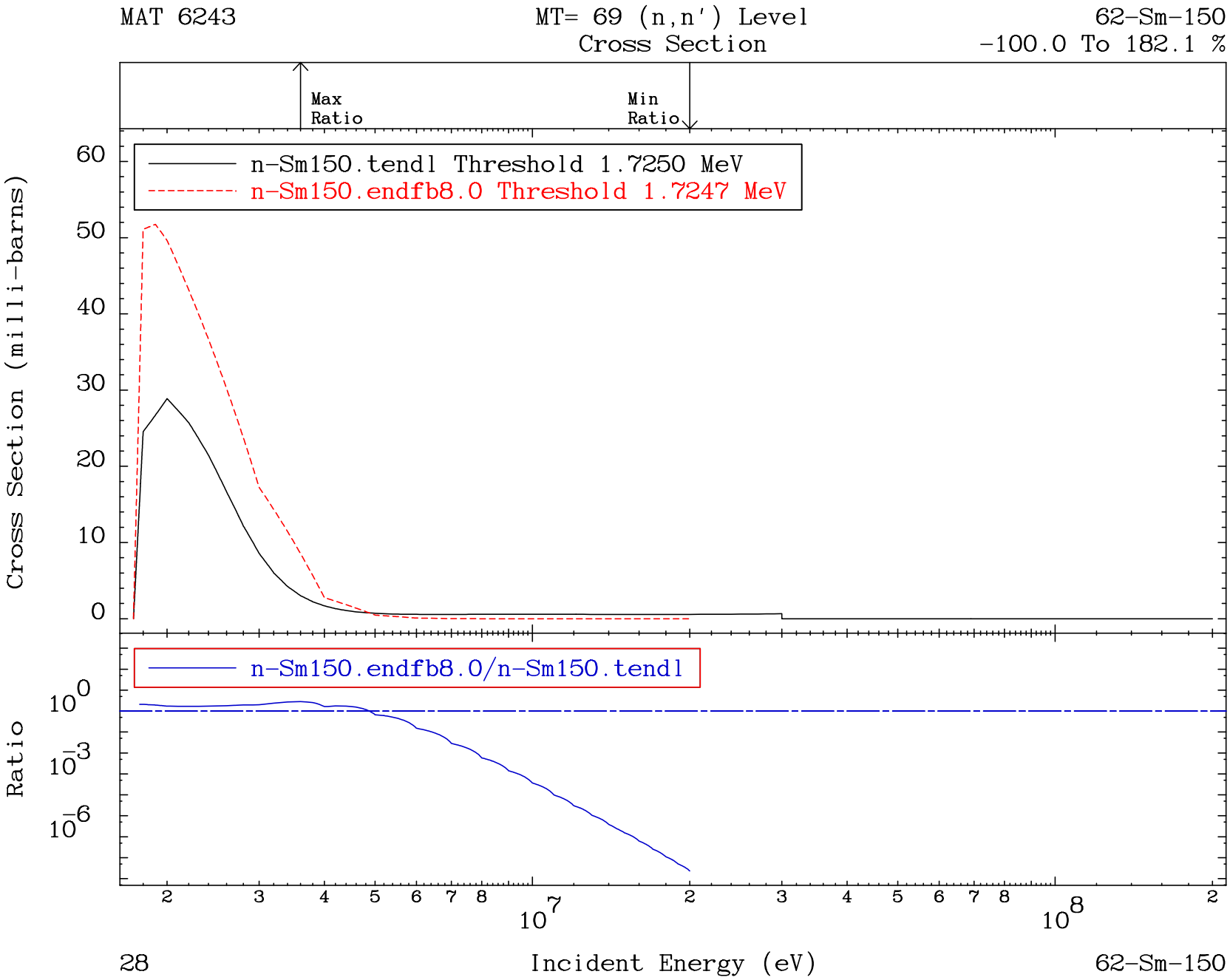

MAT 6243
MT= 64 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 288.1 %
Max Ratio
Min Ratio
n-Sm150.tendl Threshold 1.6138 MeV
n-Sm150.endfb8.0 Threshold 1.6536 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
62-Sm-150

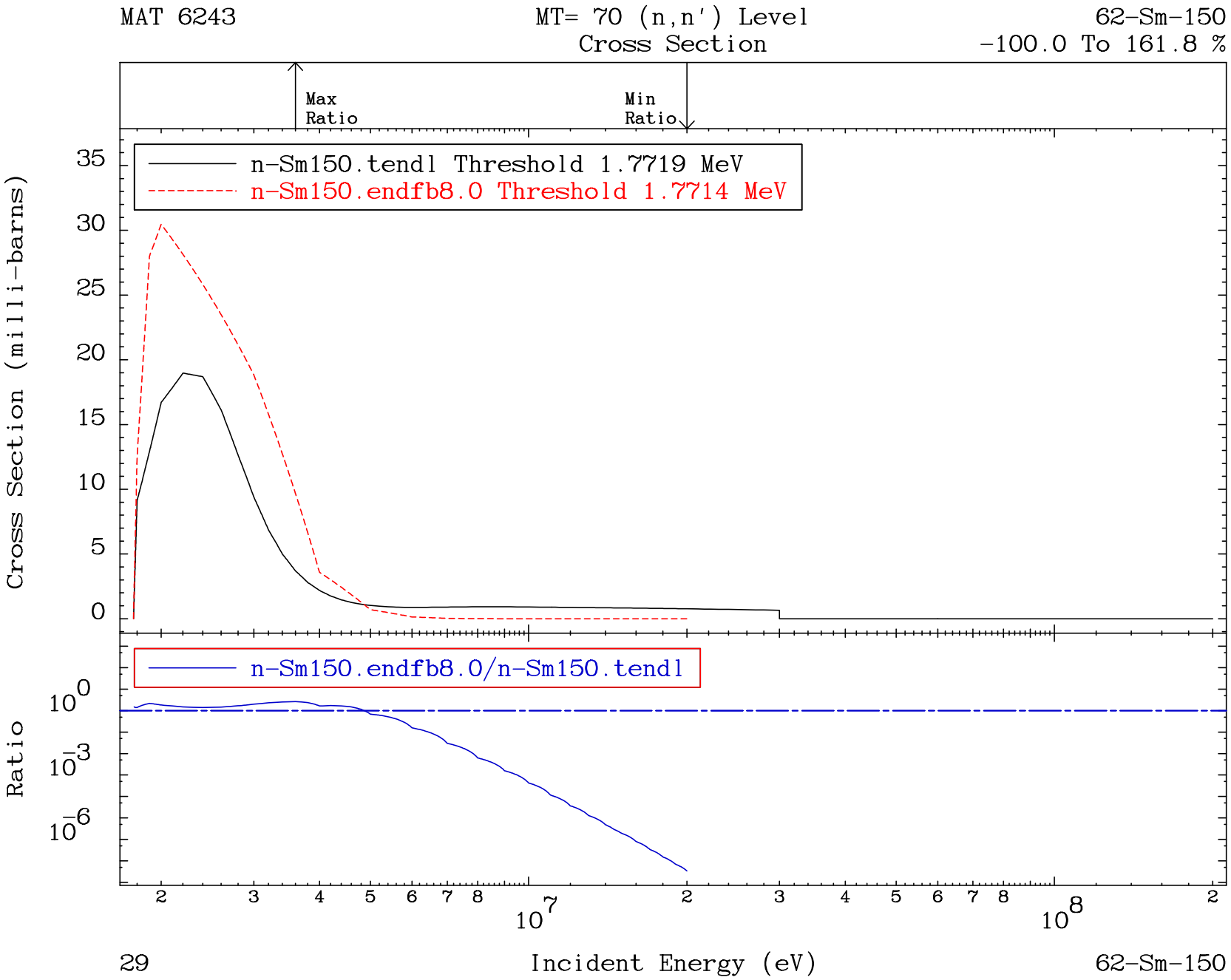

MAT 6243
MT= 65 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 417.8 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.6537 MeV
n-Sm150.endfb8.0 Threshold 1.6694 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
24
Incident Energy (eV)
62-Sm-150

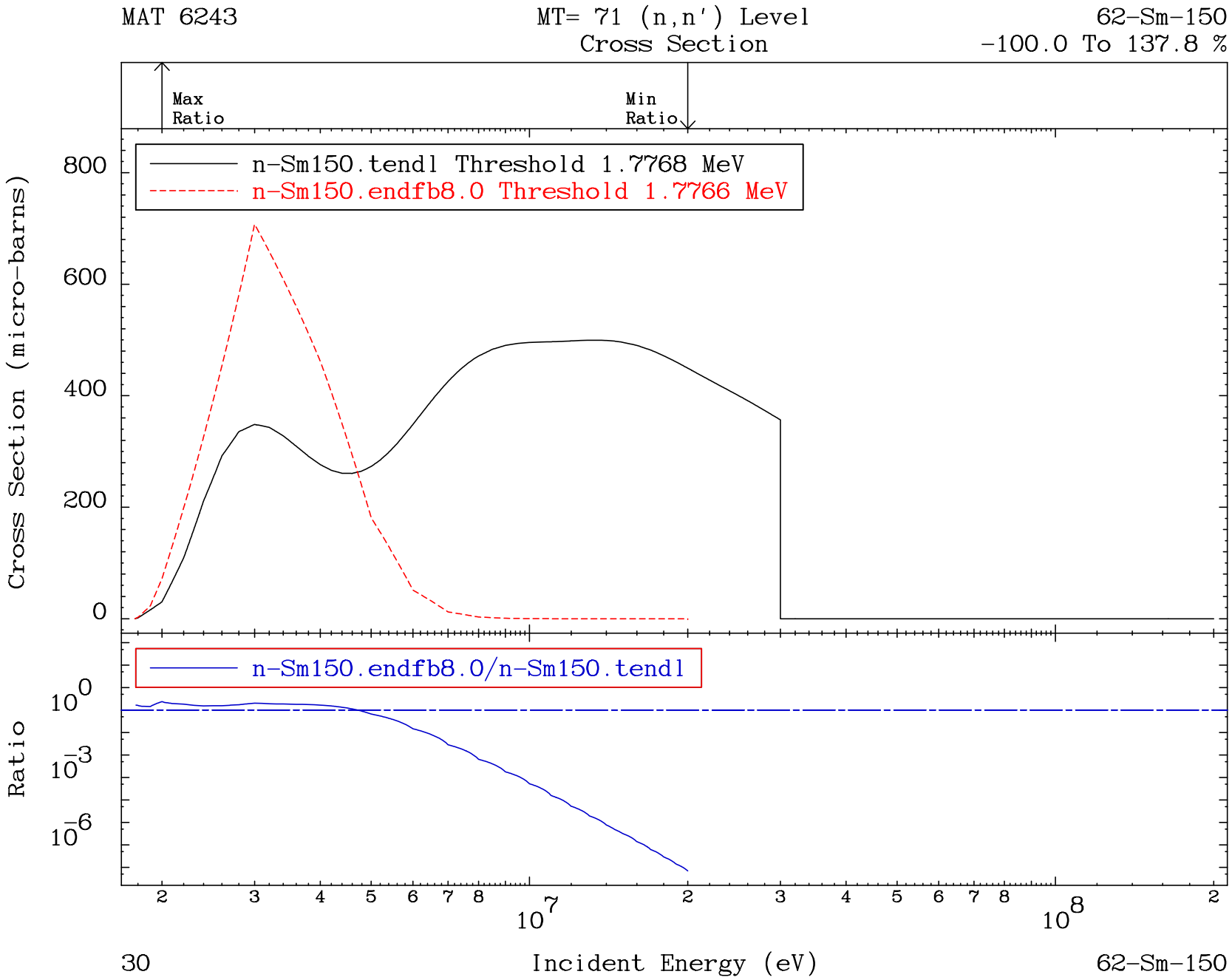

MAT 6243
MT= 66 (n,n') Level
Cross Section
62-Sm-150
-99.53 To 234.2 %
Min
Ratio
Max
Ratio
n-Sm150.tendl Threshold 1.6696 MeV
n-Sm150.endfb8.0 Threshold 1.6840 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^1
10^0
10^-1
10^-2
2
3
4
5
6
7
8
10^7
10^8
25
Incident Energy (eV)
62-Sm-150

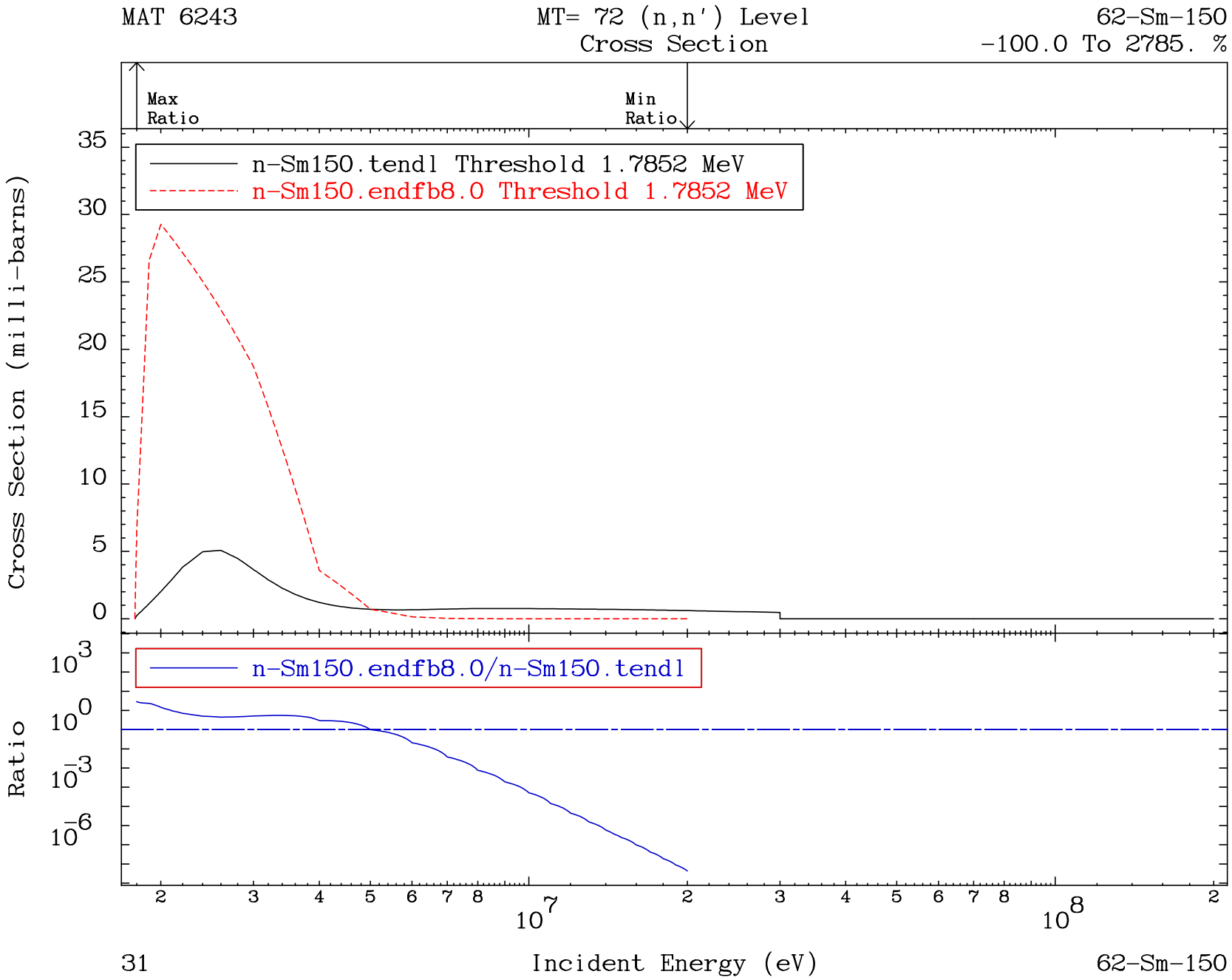

MAT 6243
MT= 67 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 147.8 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.6840 MeV
n-Sm150.endfb8.0 Threshold 1.6840 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
26
Incident Energy (eV)
62-Sm-150

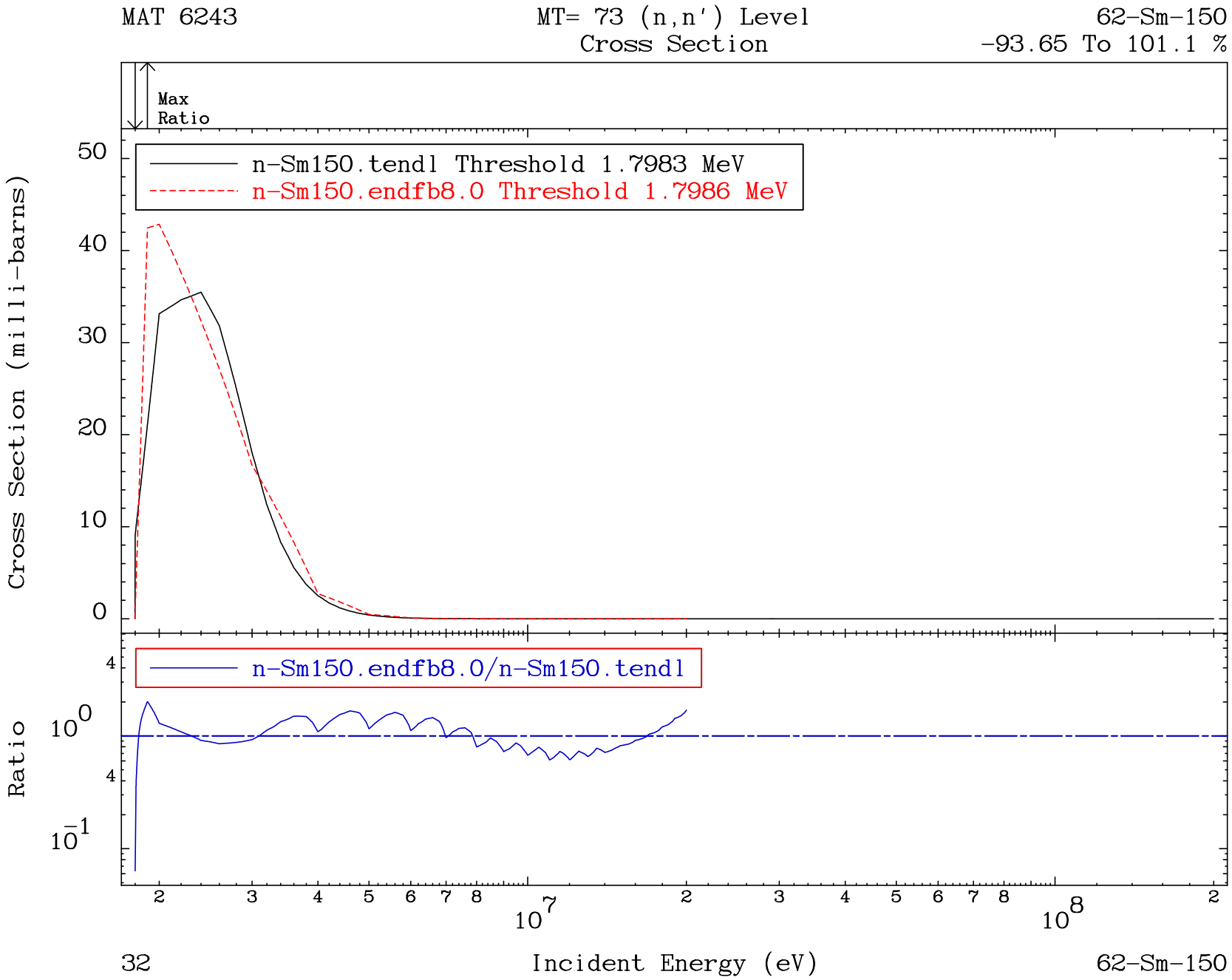

MAT 6243
MT= 68 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 360.1 %
Max Ratio
Min Ratio
n-Sm150.tendl Threshold 1.6955 MeV
n-Sm150.endfb8.0 Threshold 1.6955 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
62-Sm-150

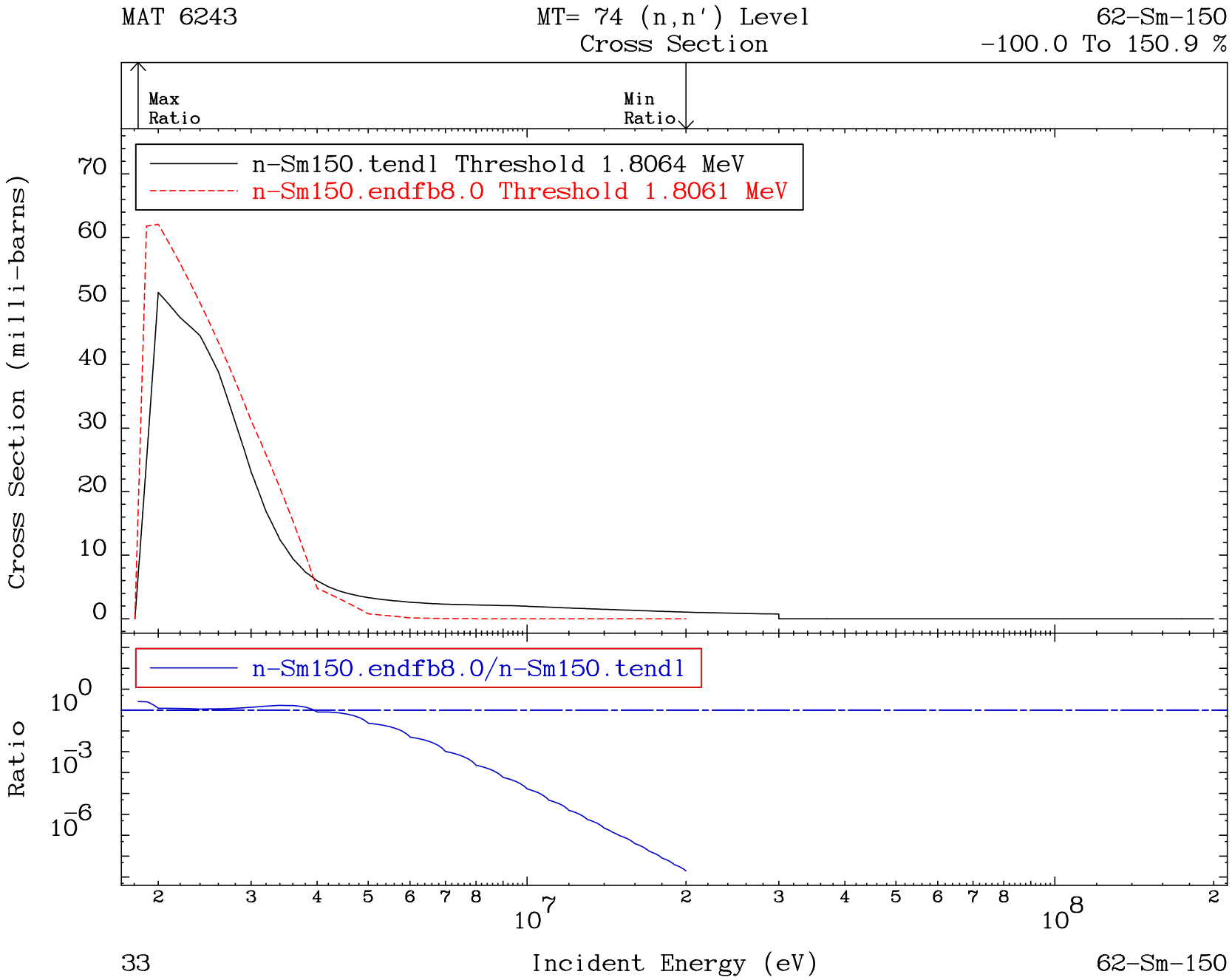

MAT 6243
MT= 69 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 182.1 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.7250 MeV
n-Sm150.endfb8.0 Threshold 1.7247 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
28
Incident Energy (eV)
62-Sm-150

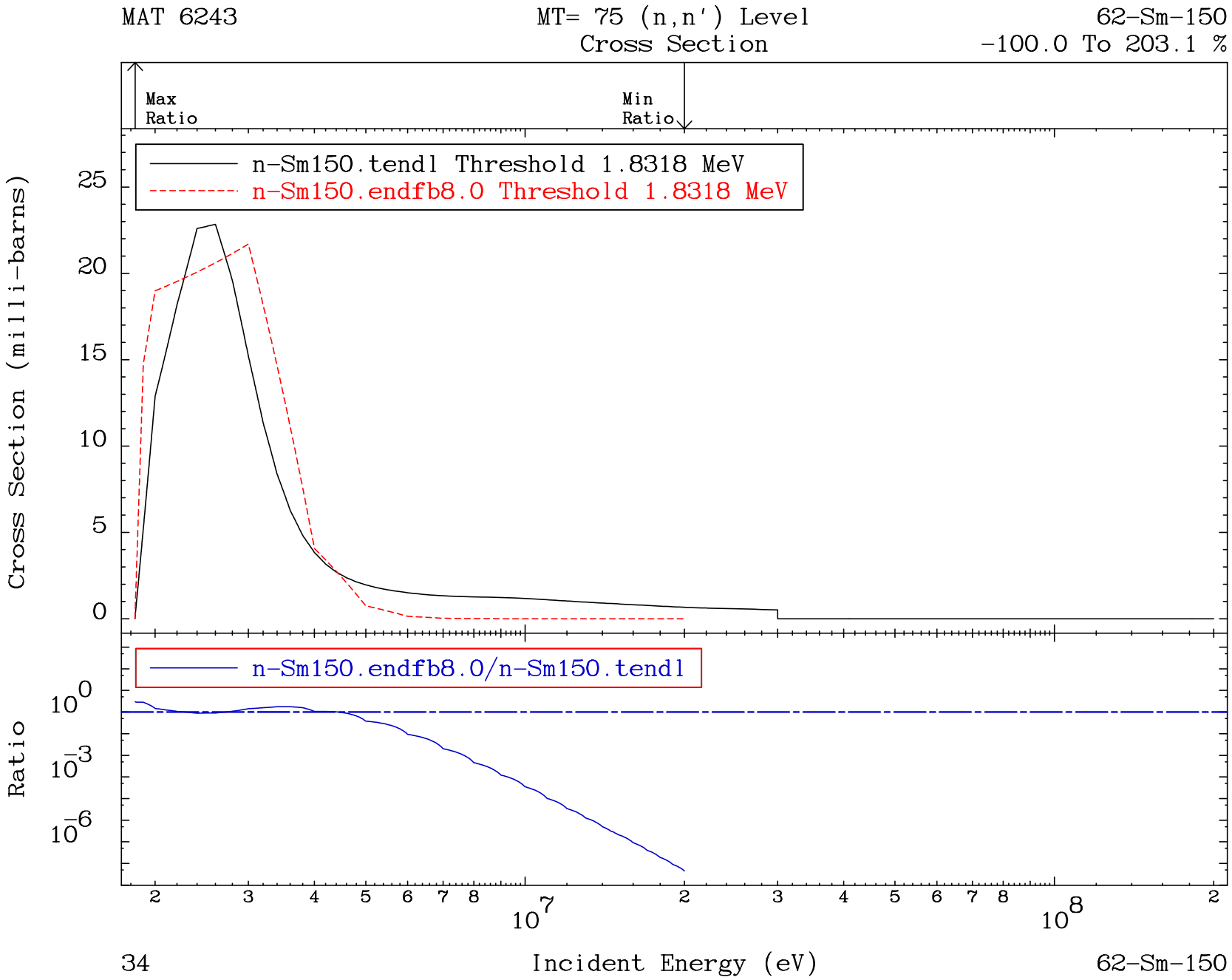

MAT 6243
MT= 70 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 161.8 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.7719 MeV
n-Sm150.endfb8.0 Threshold 1.7714 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
29
Incident Energy (eV)
62-Sm-150

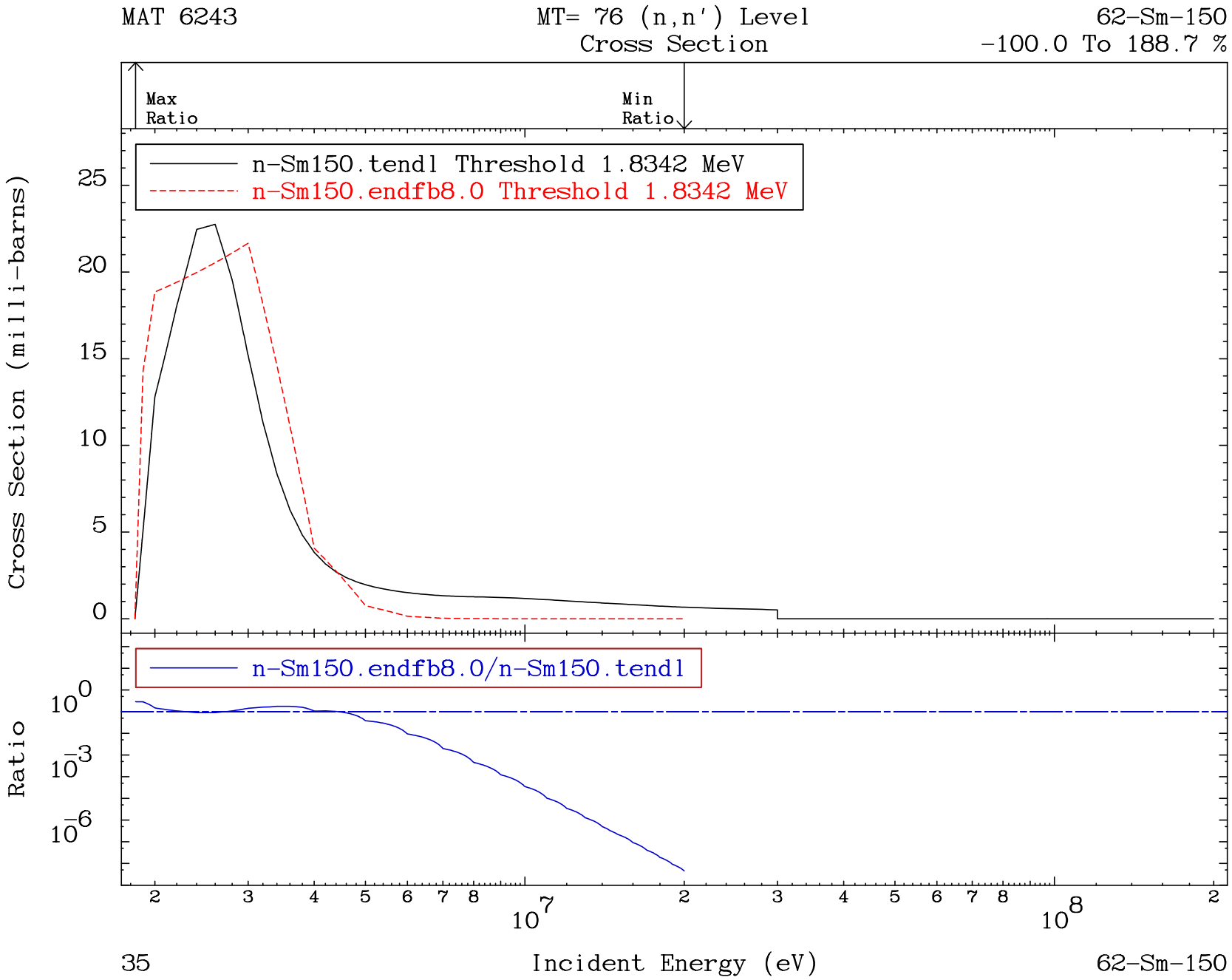

MAT 6243
MT= 71 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 137.8 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.7768 MeV
n-Sm150.endfb8.0 Threshold 1.7766 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
30
Incident Energy (eV)
62-Sm-150

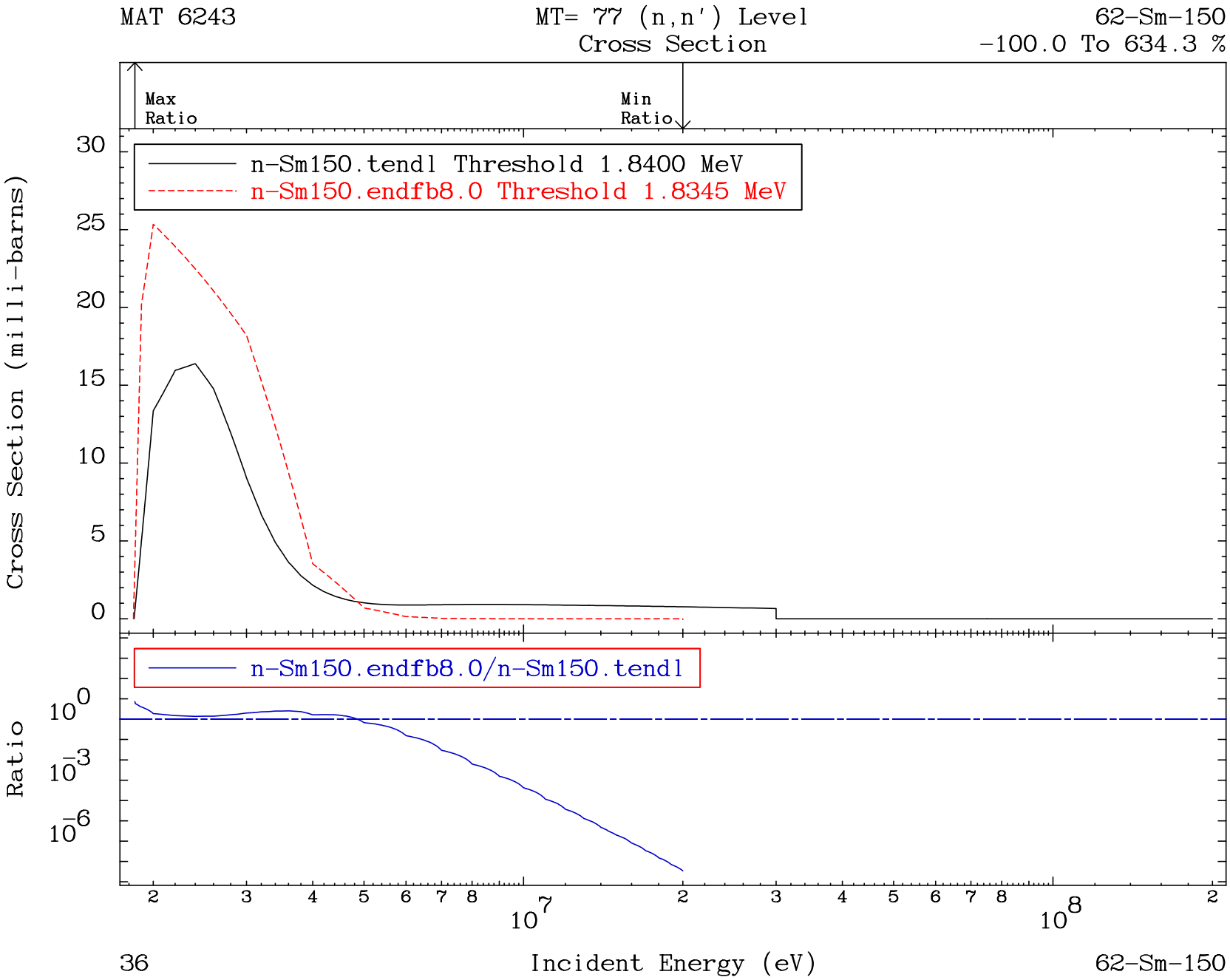

MAT 6243
MT= 72 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 2785. %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.7852 MeV
n-Sm150.endfb8.0 Threshold 1.7852 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^3
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
10^8
31
Incident Energy (eV)
62-Sm-150

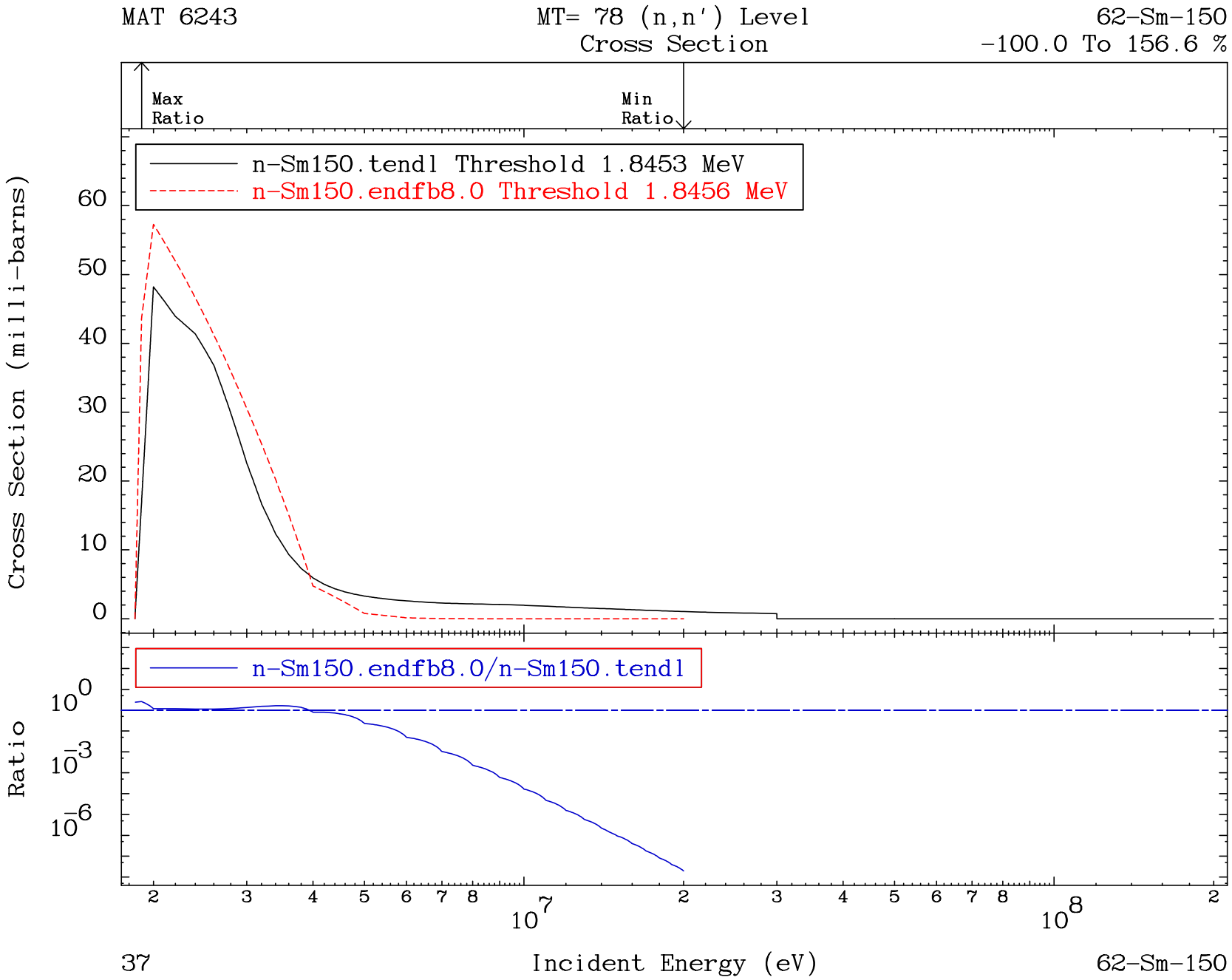

MAT 6243
MT= 73 (n,n') Level
Cross Section
62-Sm-150
-93.65 To 101.1 %
Max
Ratio
n-Sm150.tendl Threshold 1.7983 MeV
n-Sm150.endfb8.0 Threshold 1.7986 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
4
10^{0}
4
10^{-1}
2
3
4
5
6
7
8
10^{7}
2
3
4
5
6
7
8
10^{8}
2
32
Incident Energy (eV)
62-Sm-150

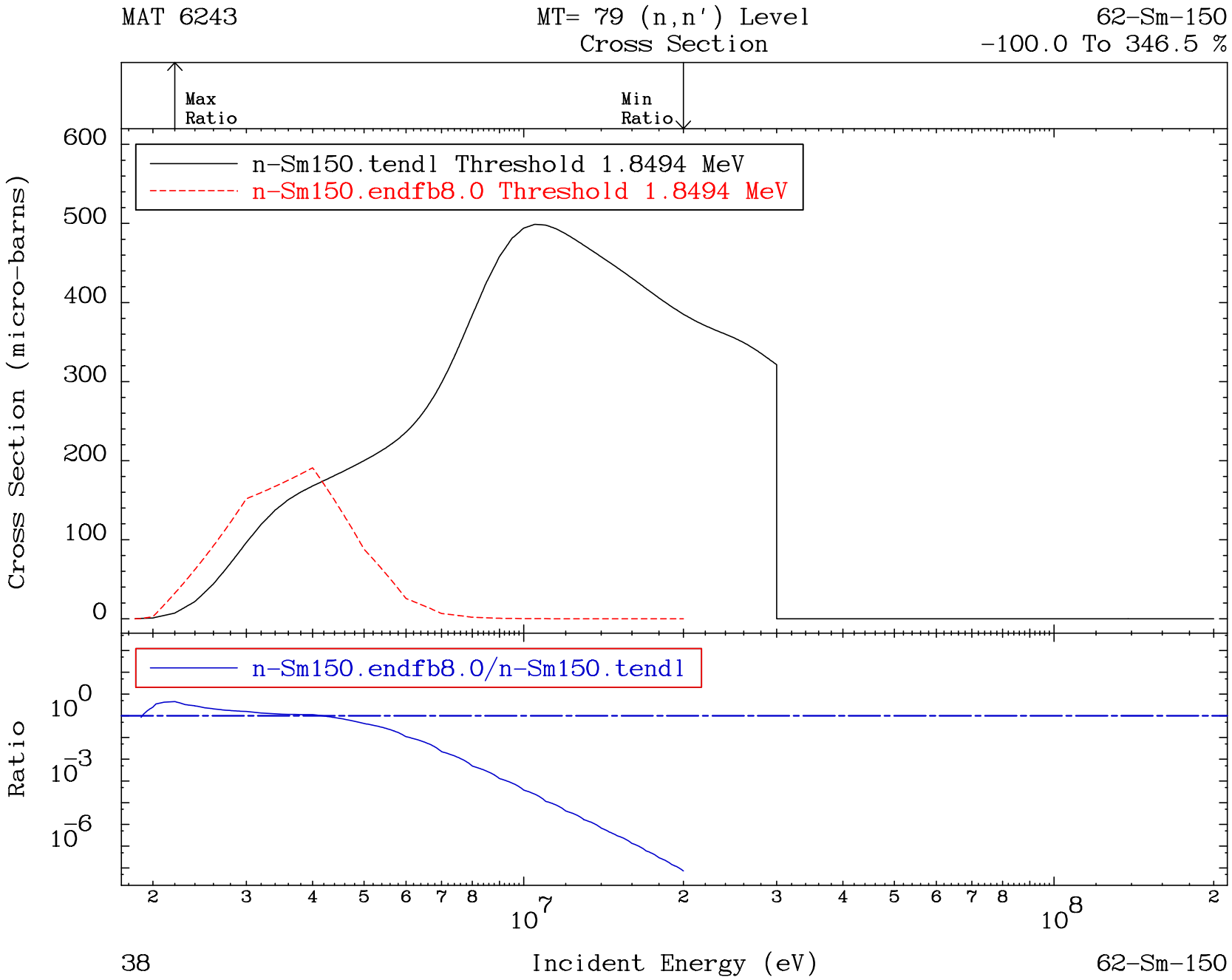

MAT 6243
MT= 74 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 150.9 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.8064 MeV
n-Sm150.endfb8.0 Threshold 1.8061 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
33
Incident Energy (eV)
62-Sm-150

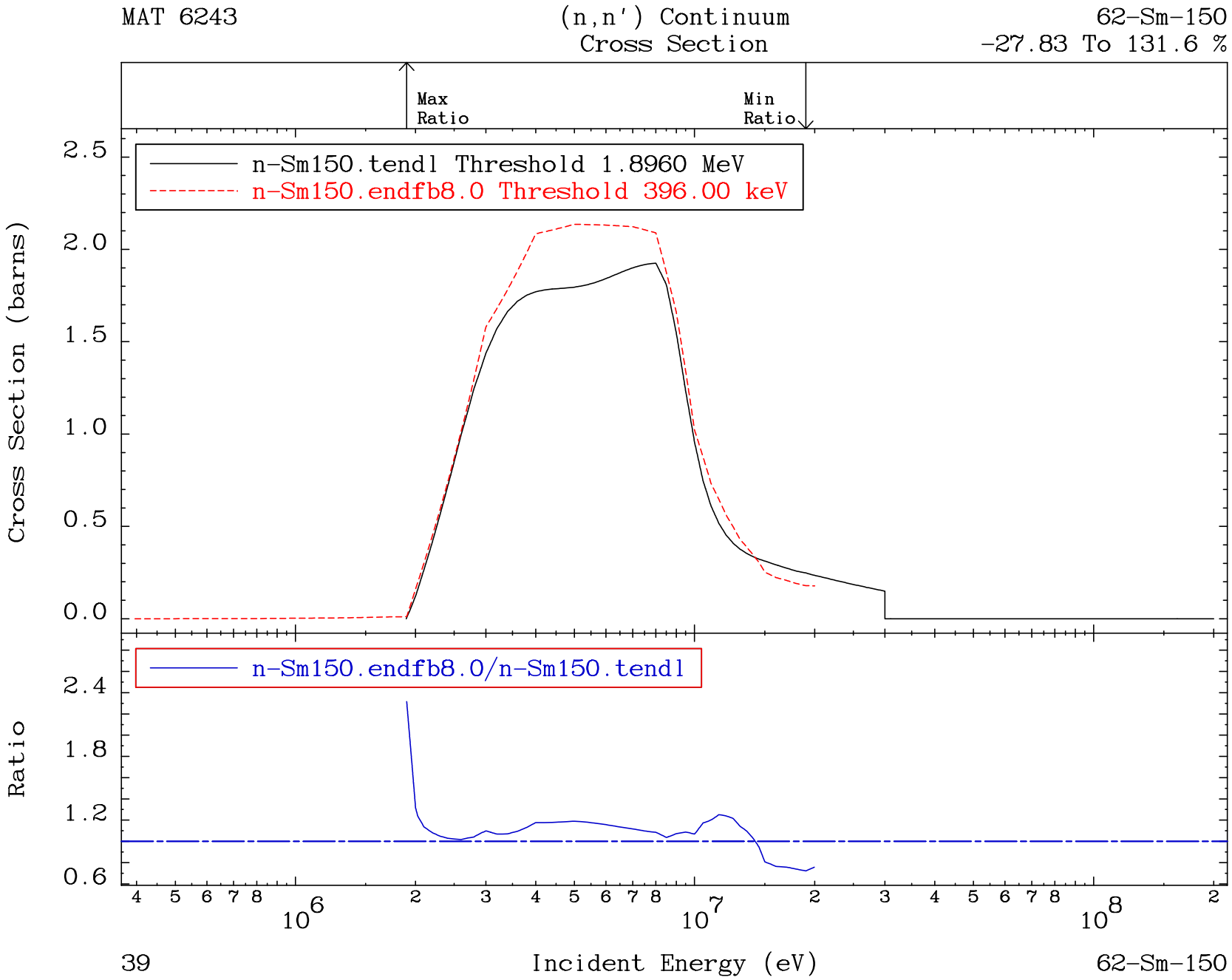

MAT 6243
MT= 75 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 203.1 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.8318 MeV
n-Sm150.endfb8.0 Threshold 1.8318 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
34
Incident Energy (eV)
62-Sm-150

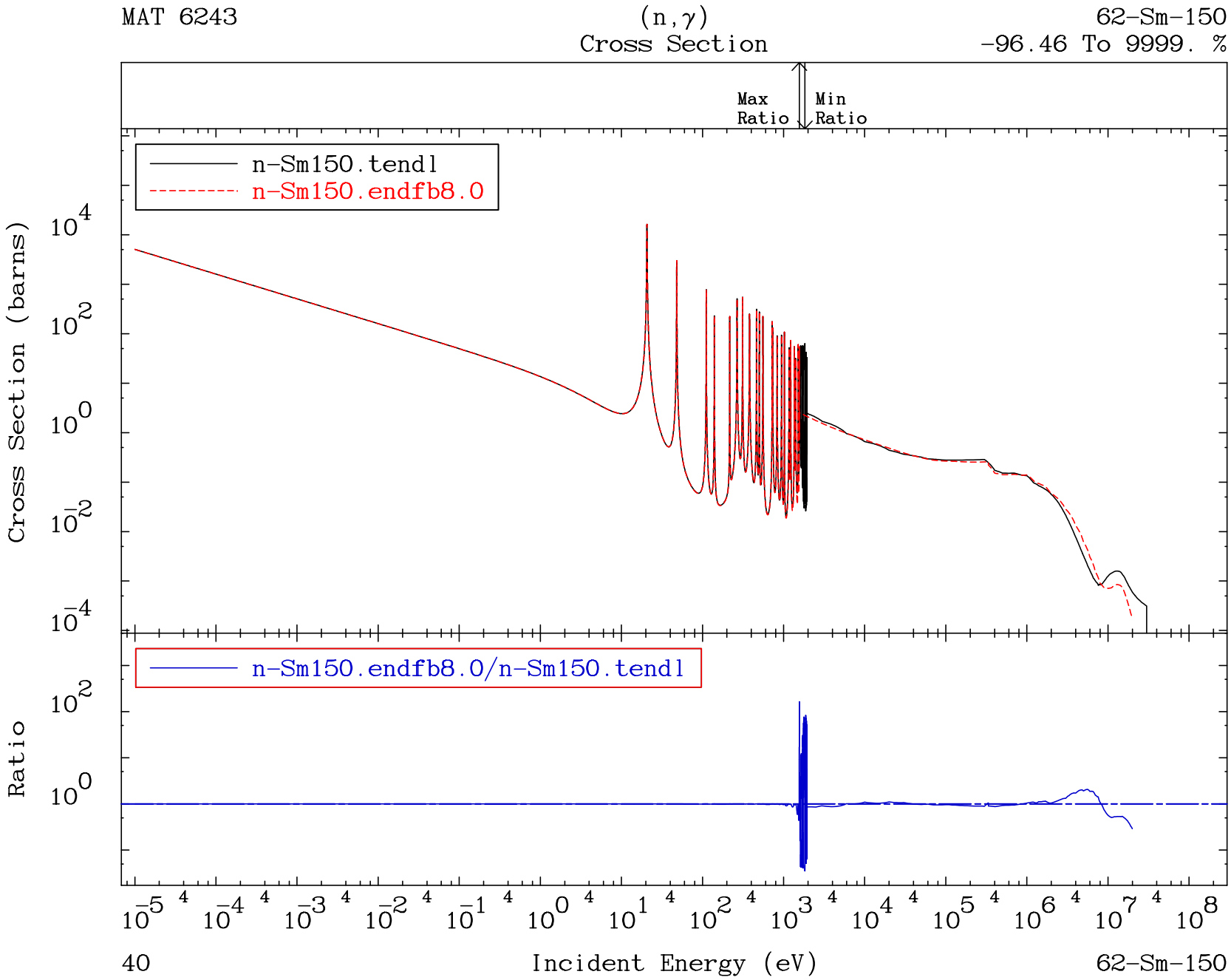

MAT 6243
MT= 76 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 188.7 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.8342 MeV
n-Sm150.endfb8.0 Threshold 1.8342 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
35
Incident Energy (eV)
62-Sm-150

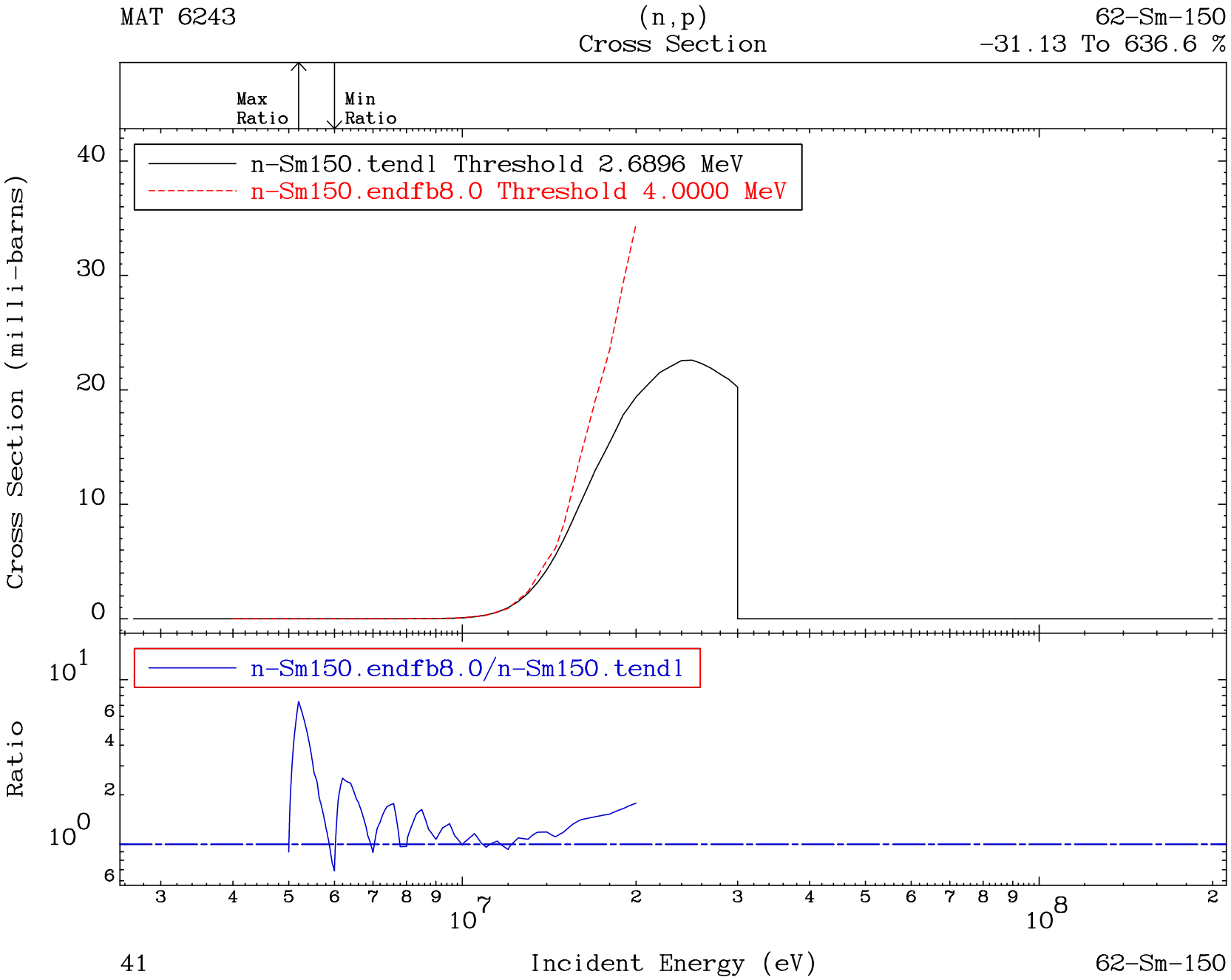

MAT 6243
MT= 77 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 634.3 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.8400 MeV
n-Sm150.endfb8.0 Threshold 1.8345 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
36
Incident Energy (eV)
62-Sm-150

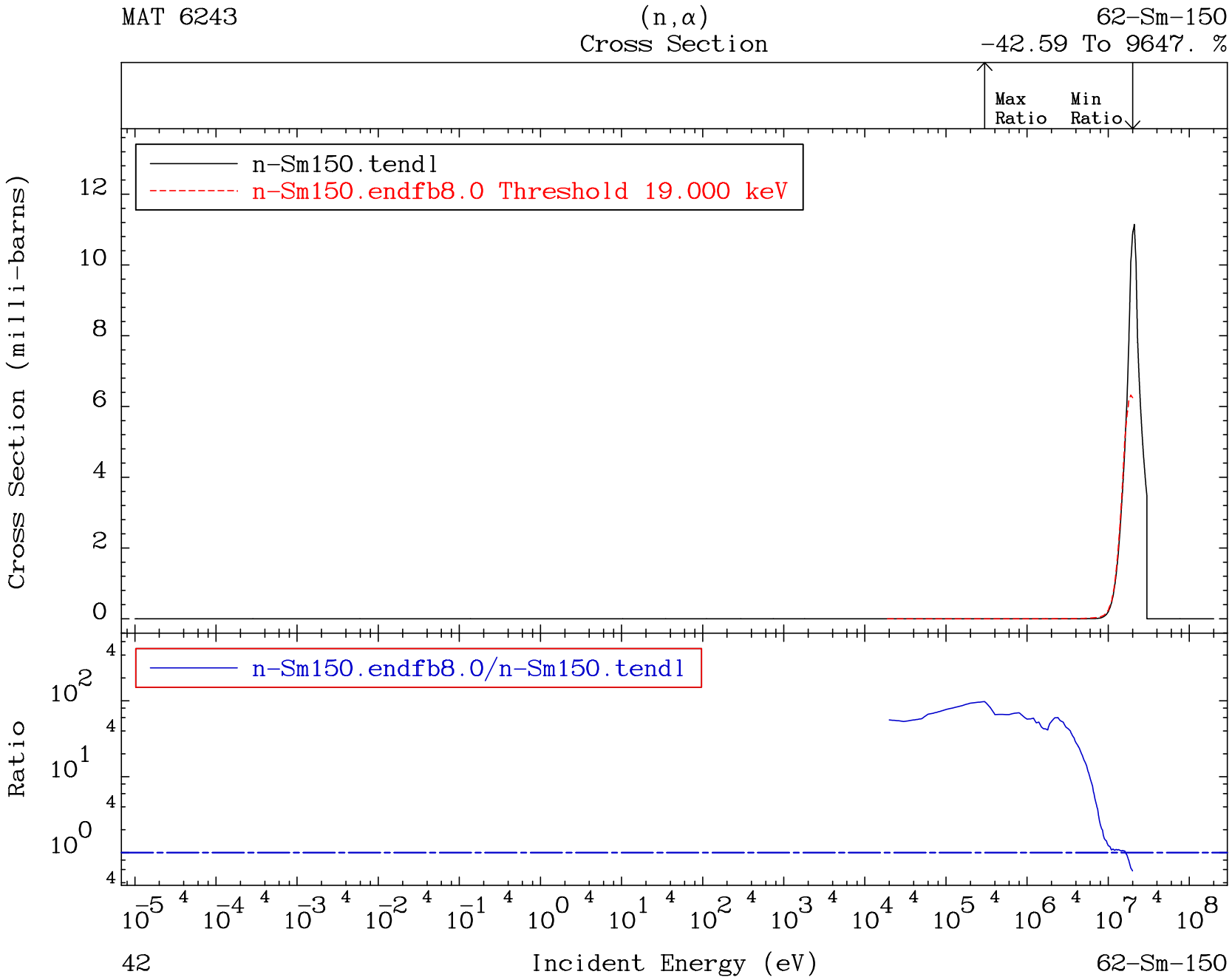

MAT 6243
MT= 78 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 156.6 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.8453 MeV
n-Sm150.endfb8.0 Threshold 1.8456 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
37
Incident Energy (eV)
62-Sm-150

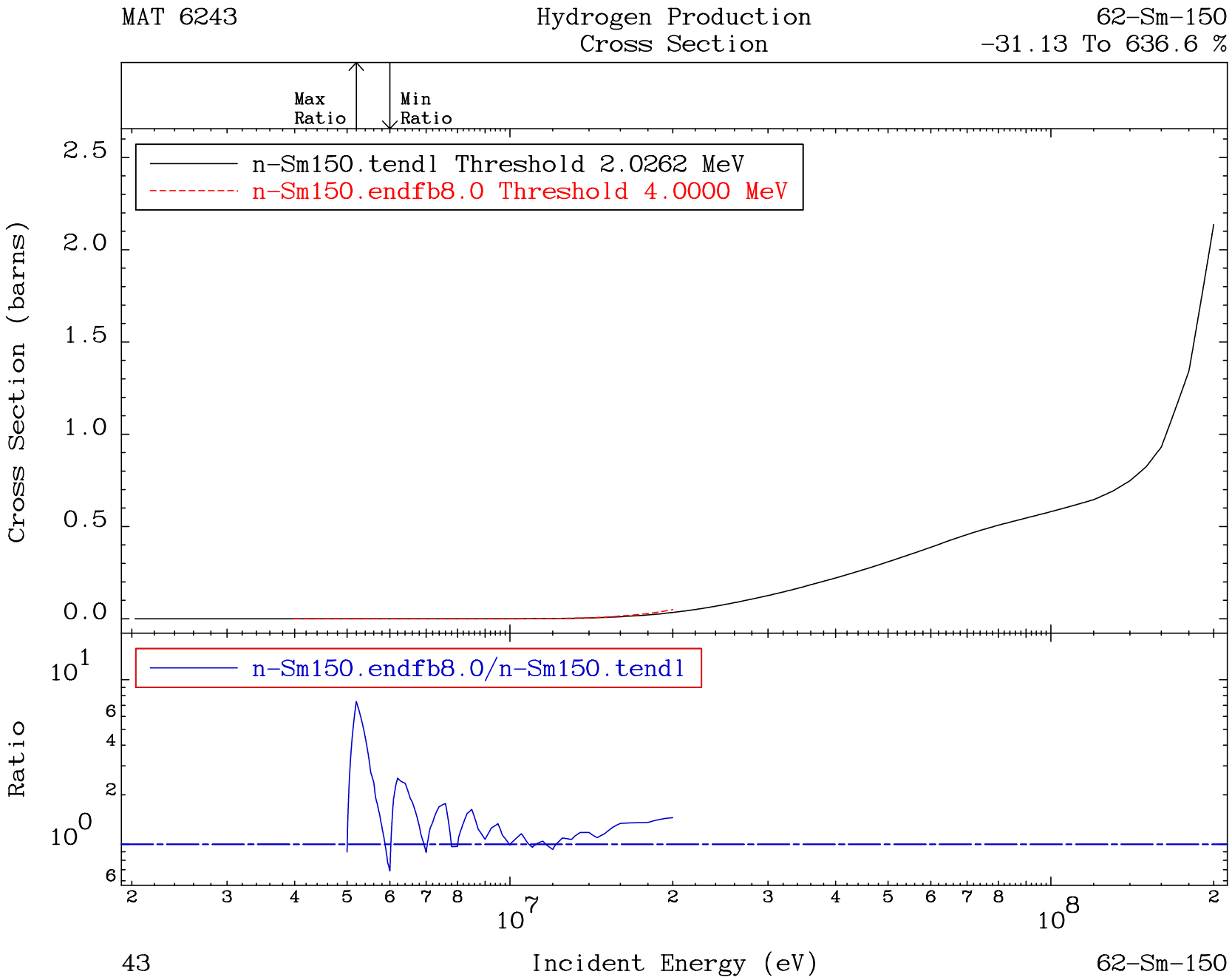

MAT 6243
MT= 79 (n,n') Level
Cross Section
62-Sm-150
-100.0 To 346.5 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.8494 MeV
n-Sm150.endfb8.0 Threshold 1.8494 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
38
Incident Energy (eV)
62-Sm-150

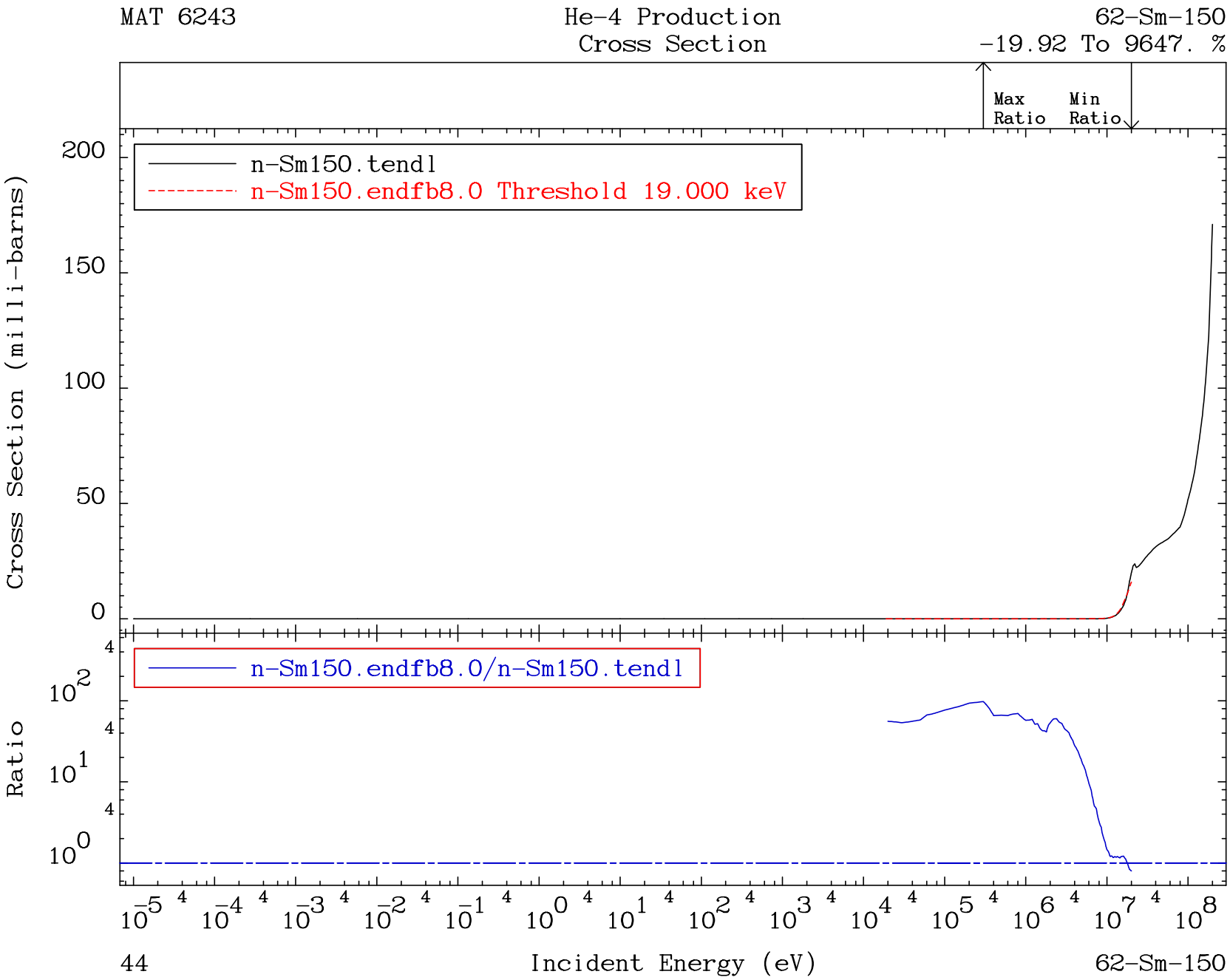

MAT 6243
(n,n') Continuum
Cross Section
62-Sm-150
-27.83 To 131.6 %
Max
Ratio
Min
Ratio
n-Sm150.tendl Threshold 1.8960 MeV
n-Sm150.endfb8.0 Threshold 396.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
2.4
1.8
1.2
0.6
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
62-Sm-150

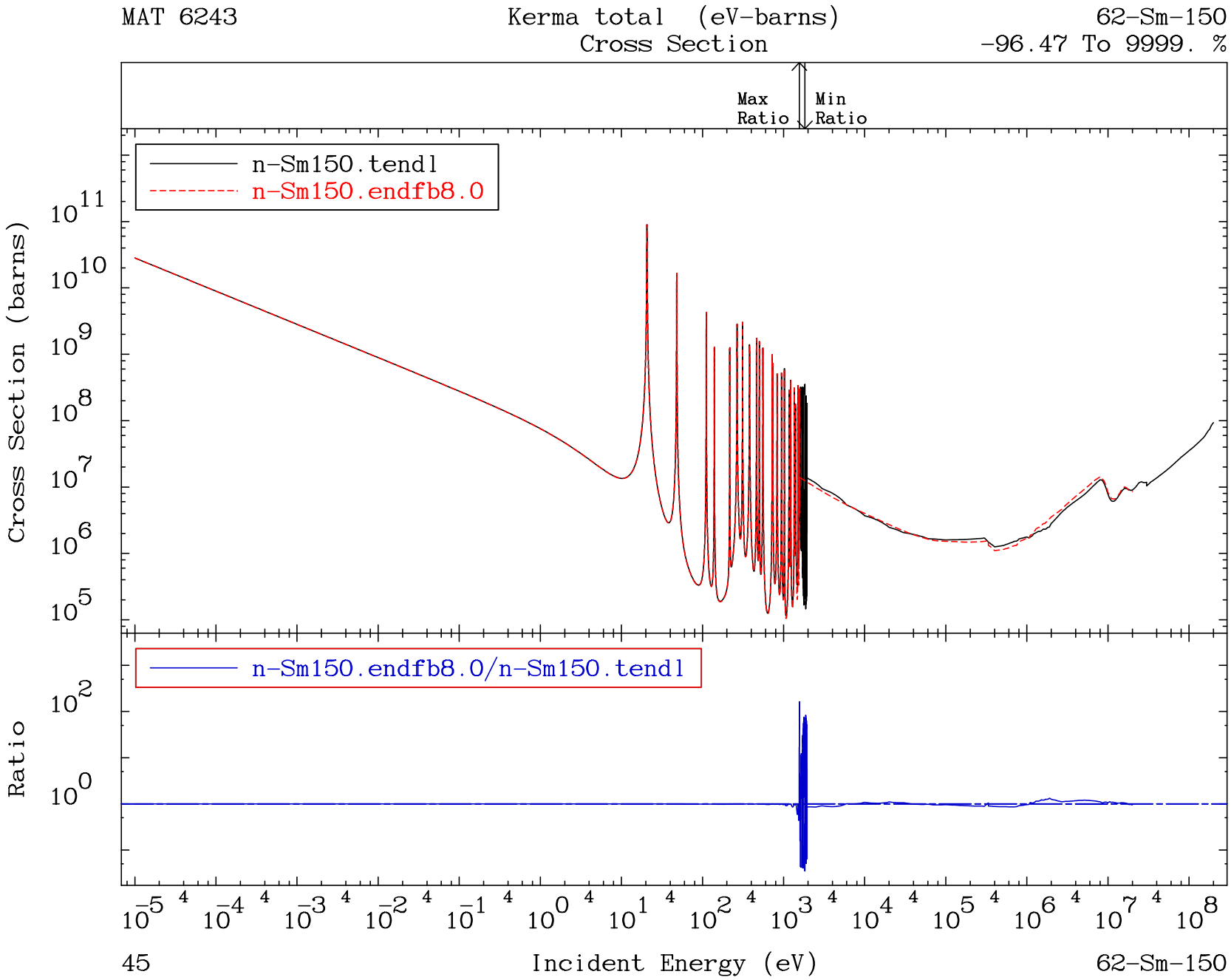

MAT 6243
(n,γ)
Cross Section
62-Sm-150
-96.46 To 9999. %
Max Ratio
Min Ratio
n-Sm150.tendl
n-Sm150.endfb8.0
Cross Section (barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
Incident Energy (eV)
40
62-Sm-150

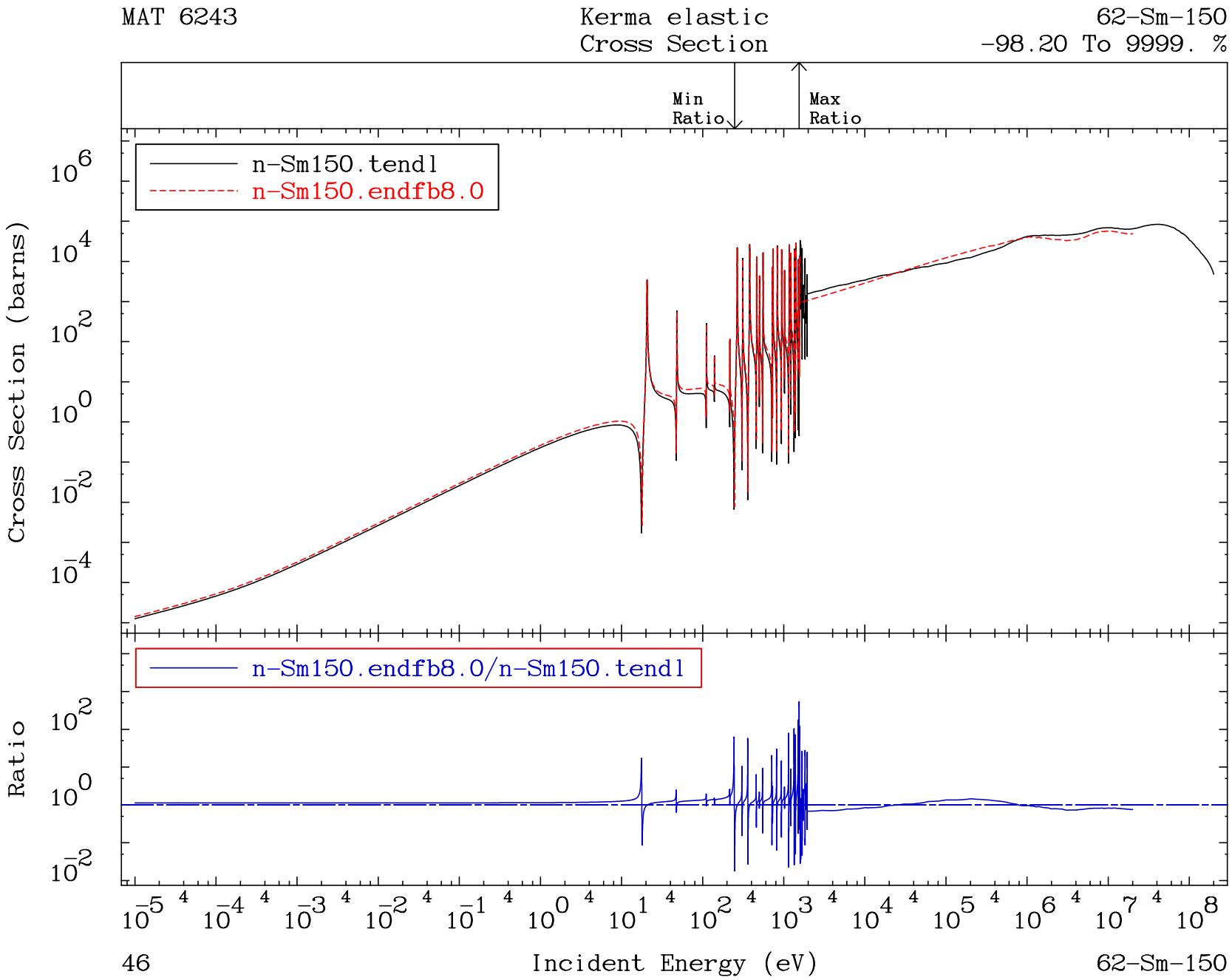

MAT 6243
(n,p)
Cross Section
62-Sm-150
-31.13 To 636.6 %
Max Ratio
Min Ratio
n-Sm150.tendl Threshold 2.6896 MeV
n-Sm150.endfb8.0 Threshold 4.0000 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^1
10^0
6
4
2
6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
62-Sm-150

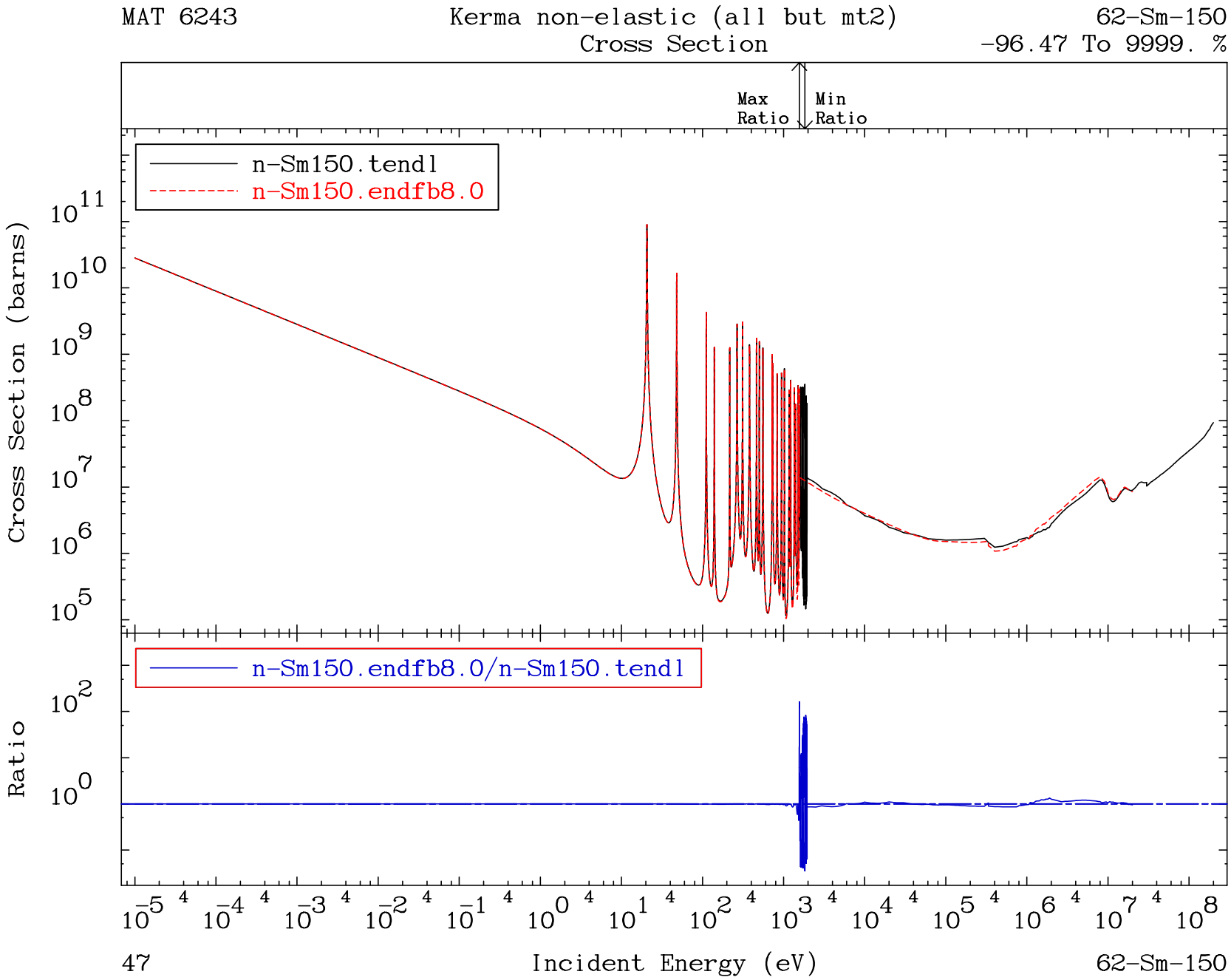

MAT 6243
(n,α)
Cross Section
62-Sm-150
-42.59 To 9647. %
Max Ratio
Min Ratio
n-Sm150.tendl
n-Sm150.endfb8.0 Threshold 19.000 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^0
10^1
10^2
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
42
Incident Energy (eV)
62-Sm-150

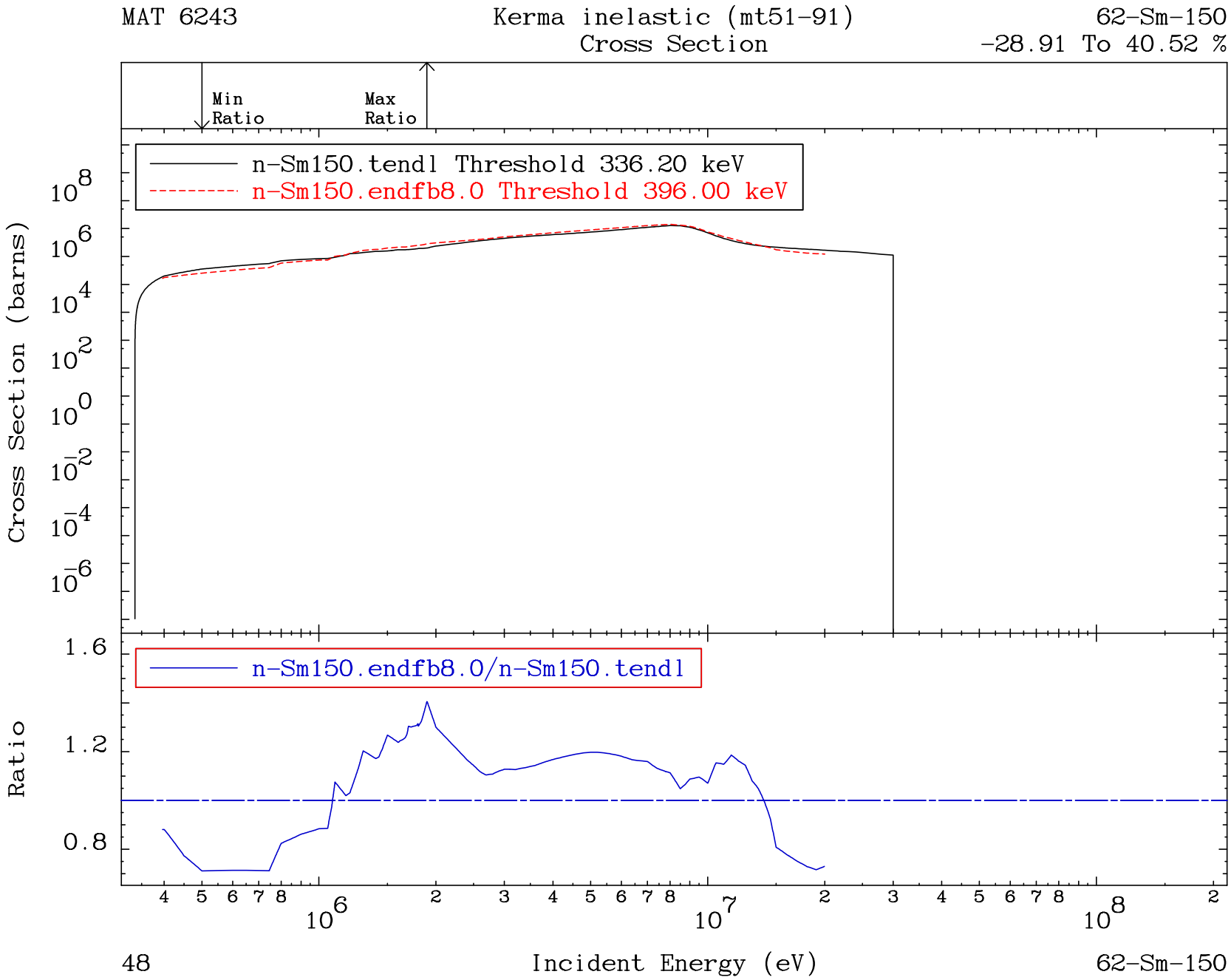

MAT 6243
Hydrogen Production
Cross Section
62-Sm-150
-31.13 To 636.6 %
Max Ratio
Min Ratio
n-Sm150.tendl Threshold 2.0262 MeV
n-Sm150.endfb8.0 Threshold 4.0000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^1
10^0
6
4
2
6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
43
Incident Energy (eV)
62-Sm-150

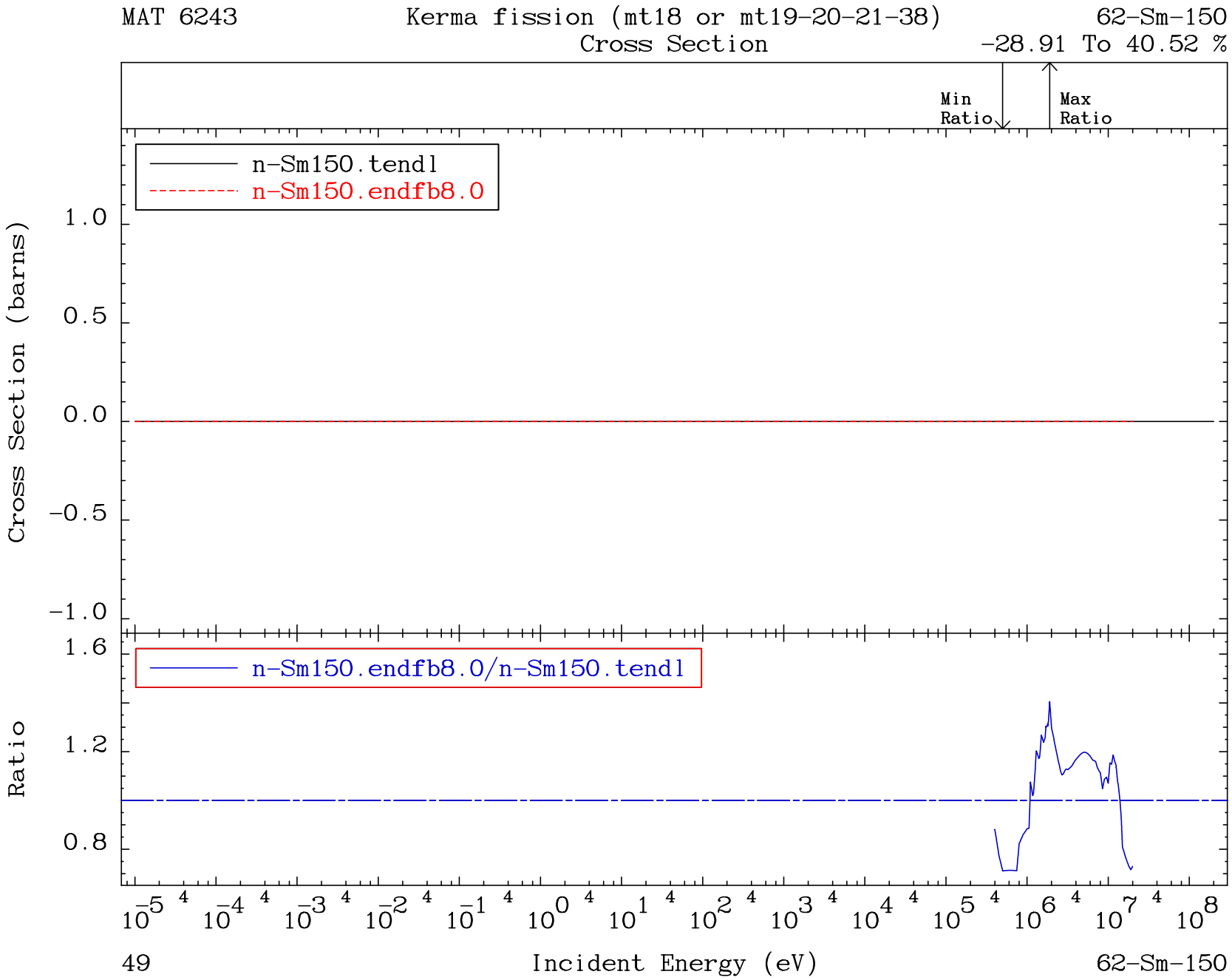

MAT 6243
He-4 Production
Cross Section
62-Sm-150
-19.92 To 9647. %
Max Ratio
Min Ratio
n-Sm150.tendl
n-Sm150.endfb8.0 Threshold 19.000 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
10^2
10^1
10^0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
44
Incident Energy (eV)
62-Sm-150

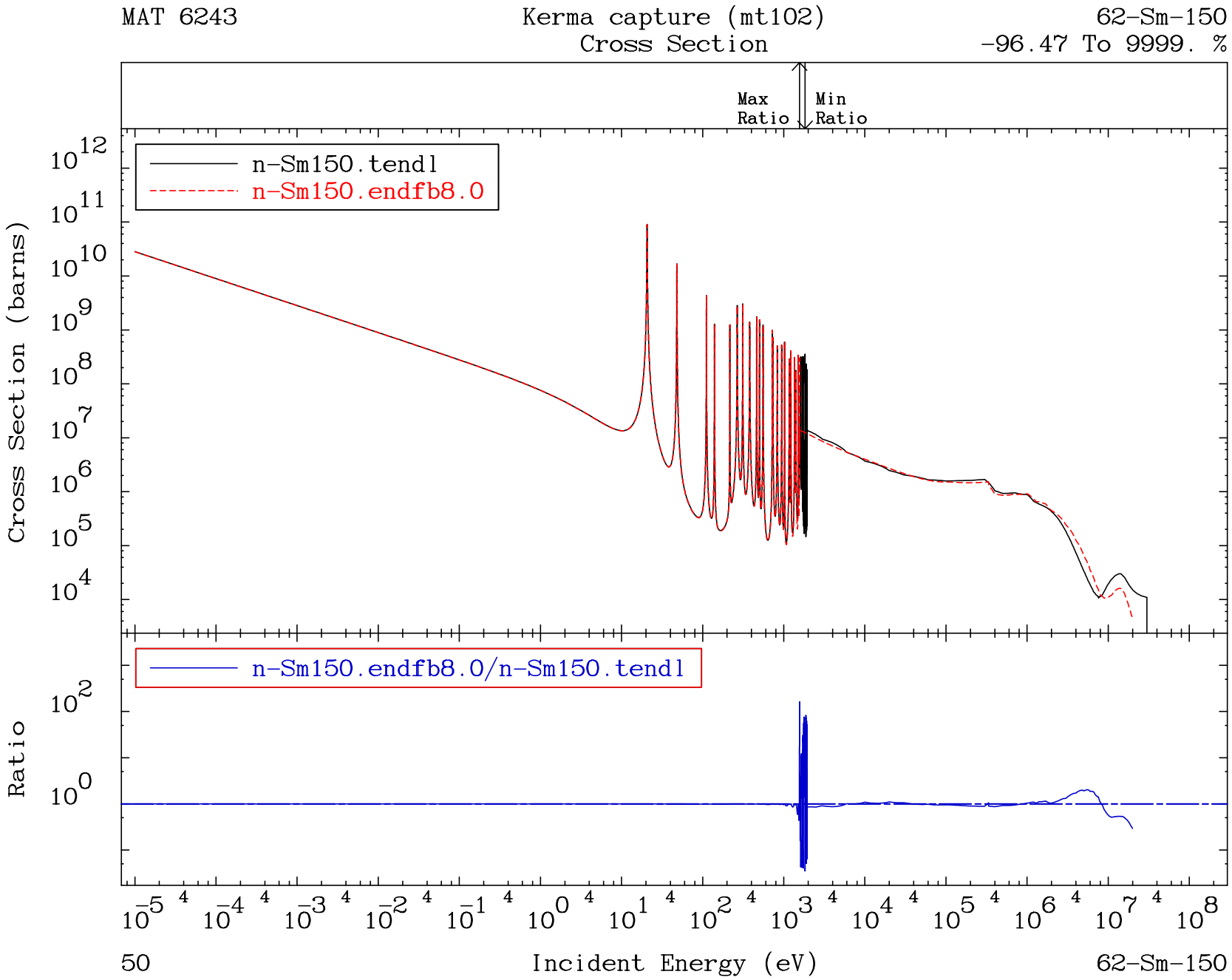

MAT 6243
Kerma total (eV-barns)
Cross Section
62-Sm-150
-96.47 To 9999. %
Max Ratio
Min Ratio
n-Sm150.tendl
n-Sm150.endfb8.0
Cross Section (barns)
Ratio
n-Sm150.endfb8.0/n-Sm150.tendl
Incident Energy (eV)
45
62-Sm-150

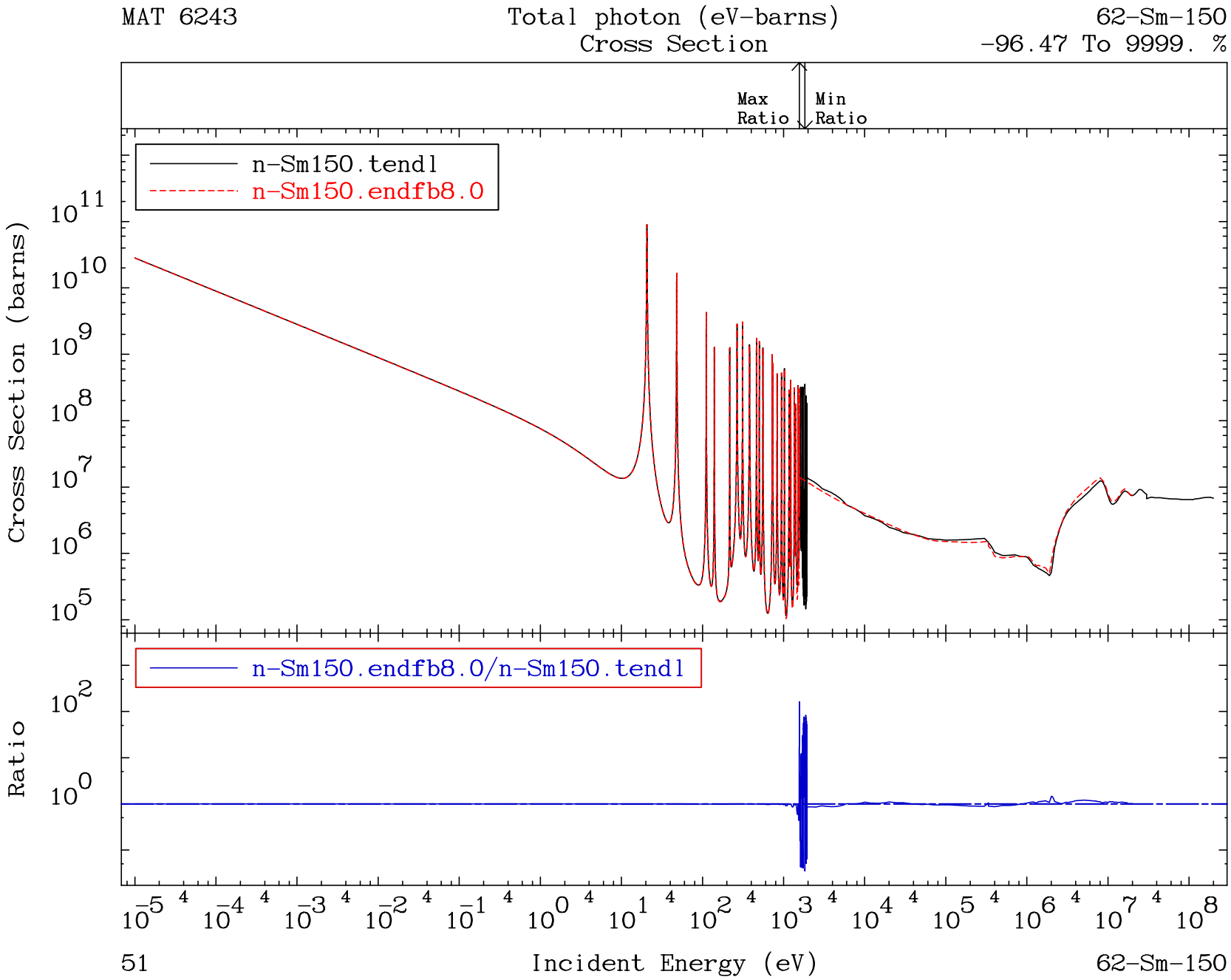

MAT 6243
Kerma elastic
Cross Section
62-Sm-150
-98.20 To 9999. %
Min
Ratio
Max
Ratio
n-Sm150.tendl
n-Sm150.endfb8.0
Cross Section (barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
Incident Energy (eV)
46
62-Sm-150

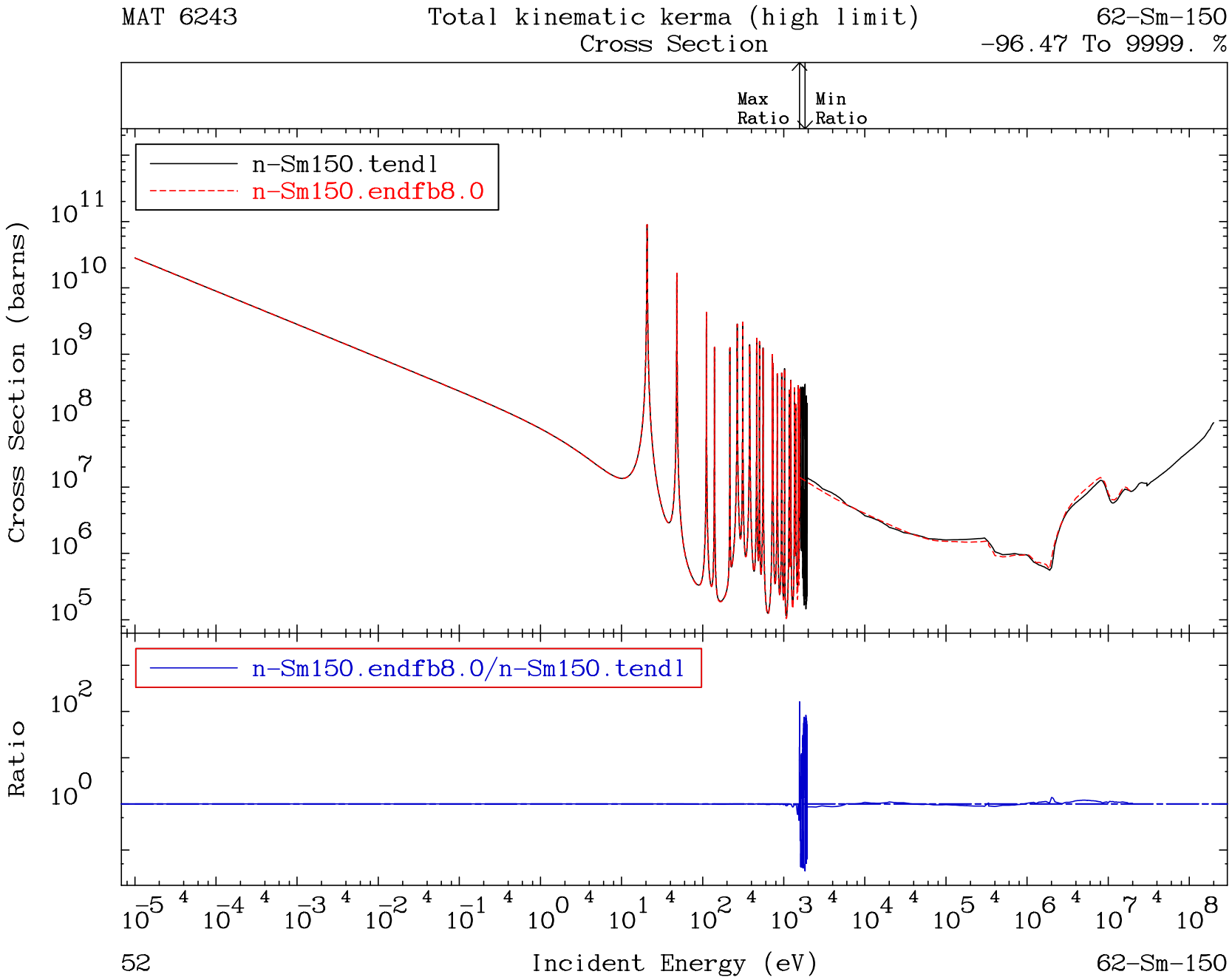

MAT 6243
Kerma non-elastic (all but mt2)
Cross Section
62-Sm-150
-96.47 To 9999. %
Max Ratio
Min Ratio
n-Sm150.tendl
n-Sm150.endfb8.0
Cross Section (barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
Incident Energy (eV)
47
62-Sm-150

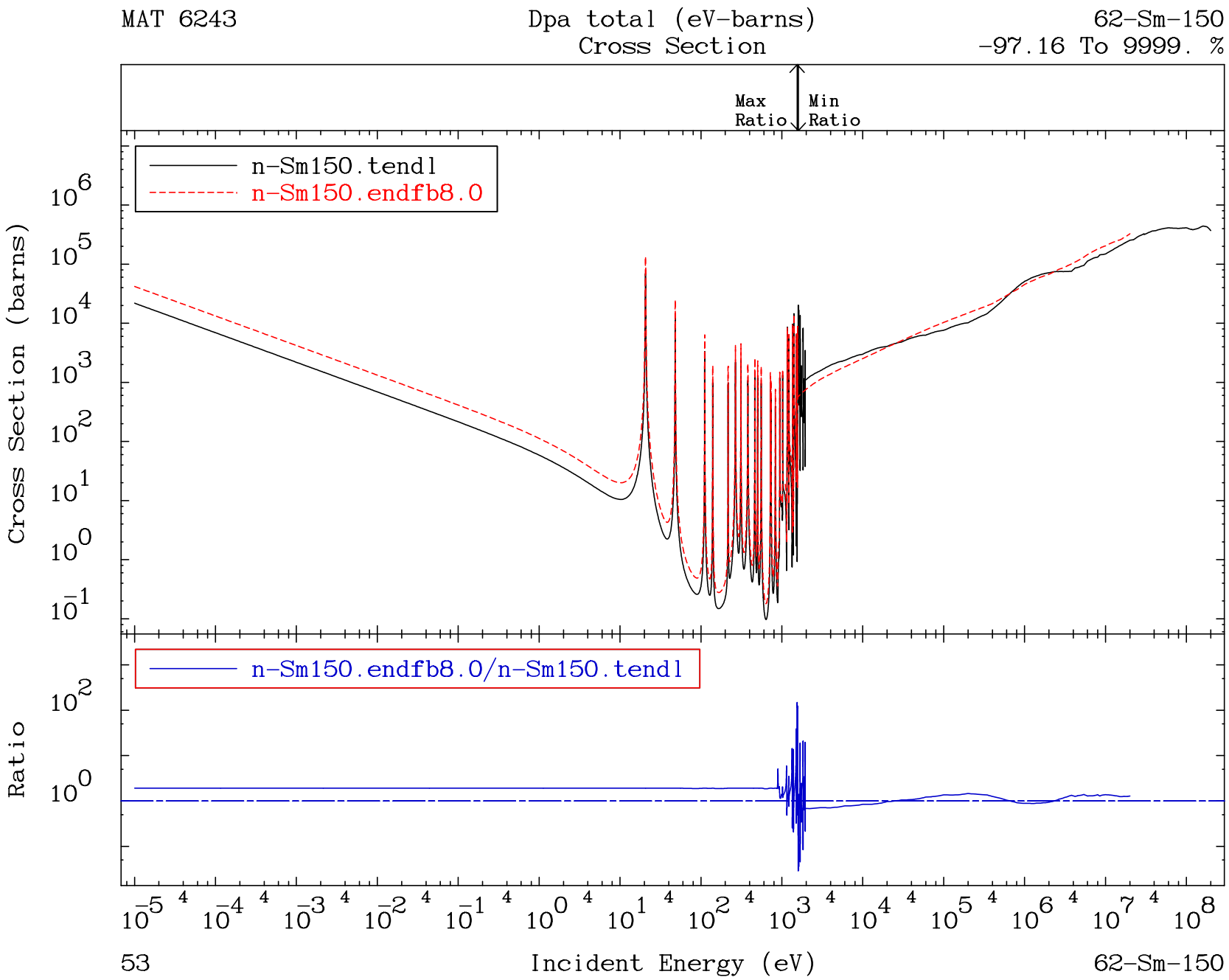

MAT 6243
Kerma inelastic (mt51-91)
Cross Section
62-Sm-150
-28.91 To 40.52 %
Min Ratio
Max Ratio
n-Sm150.tendl Threshold 336.20 keV
n-Sm150.endfb8.0 Threshold 396.00 keV
Cross Section (barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
Incident Energy (eV)
48
62-Sm-150

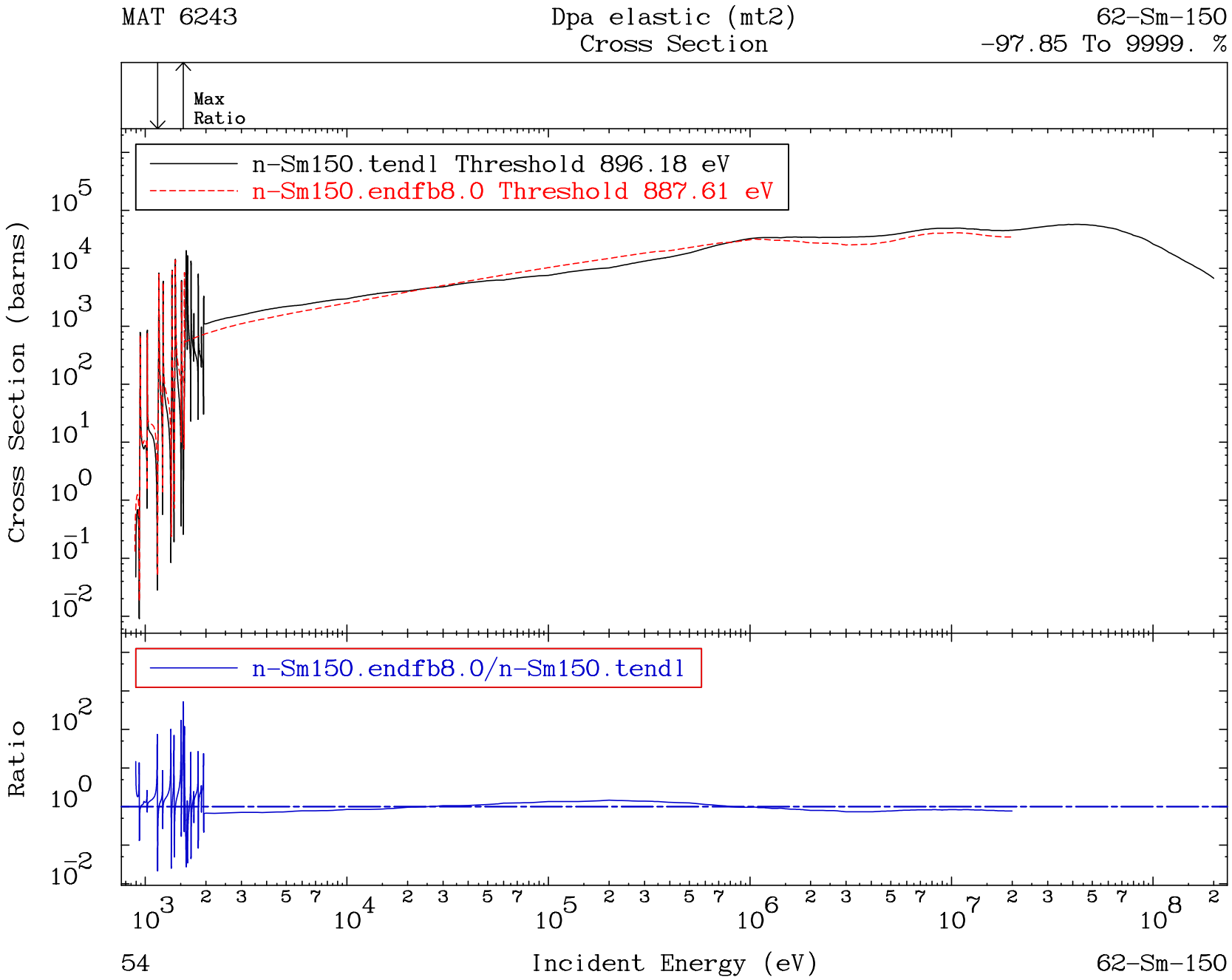

MAT 6243
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
62-Sm-150
-28.91 To 40.52 %
Min Ratio
Max Ratio
n-Sm150.tendl
n-Sm150.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
1.6
1.2
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
49
Incident Energy (eV)
62-Sm-150

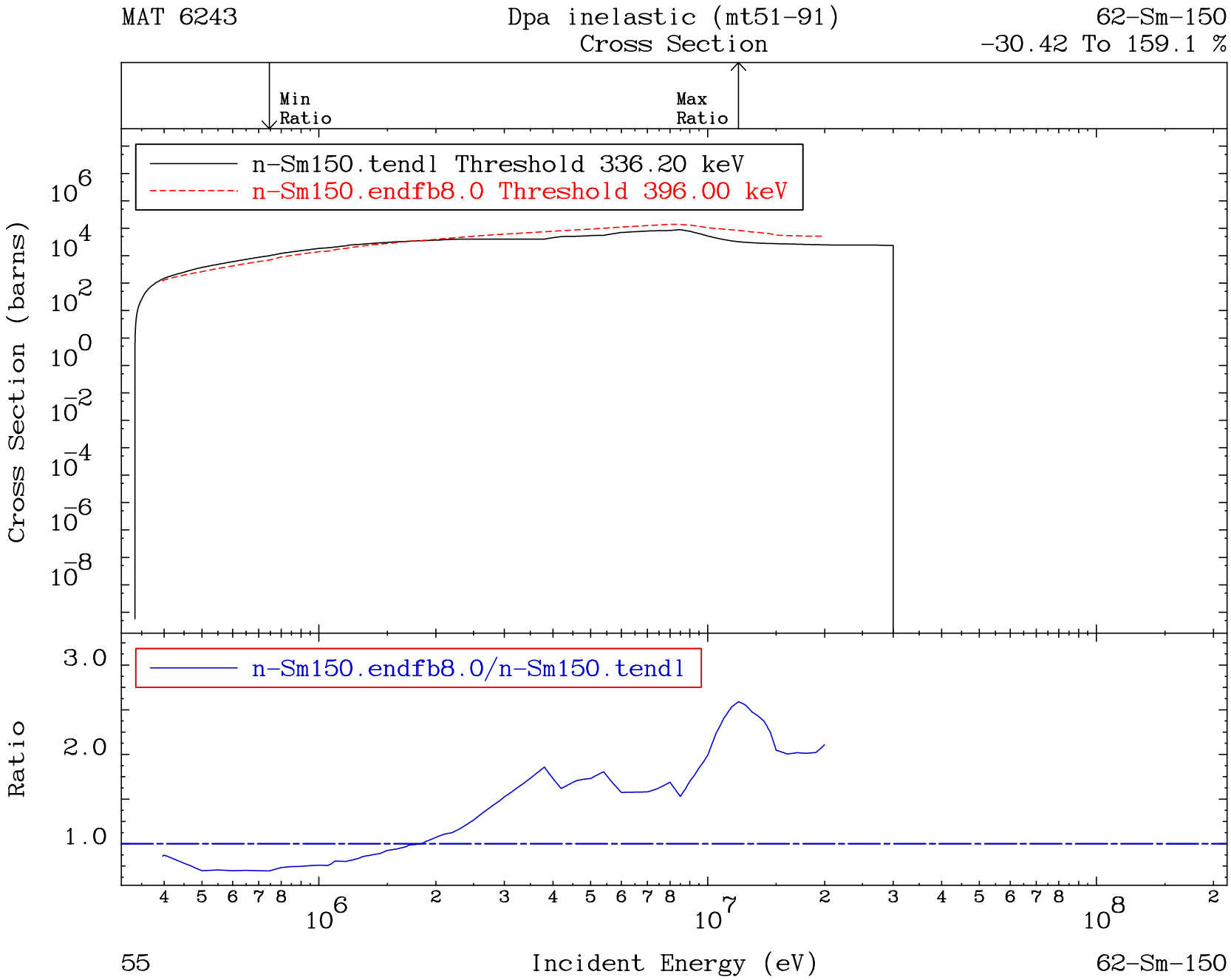

MAT 6243
Kerma capture (mt102)
Cross Section
62-Sm-150
-96.47 To 9999. %
Max Ratio
Min Ratio
n-Sm150.tendl
n-Sm150.endfb8.0
Cross Section (barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
Incident Energy (eV)
50
62-Sm-150

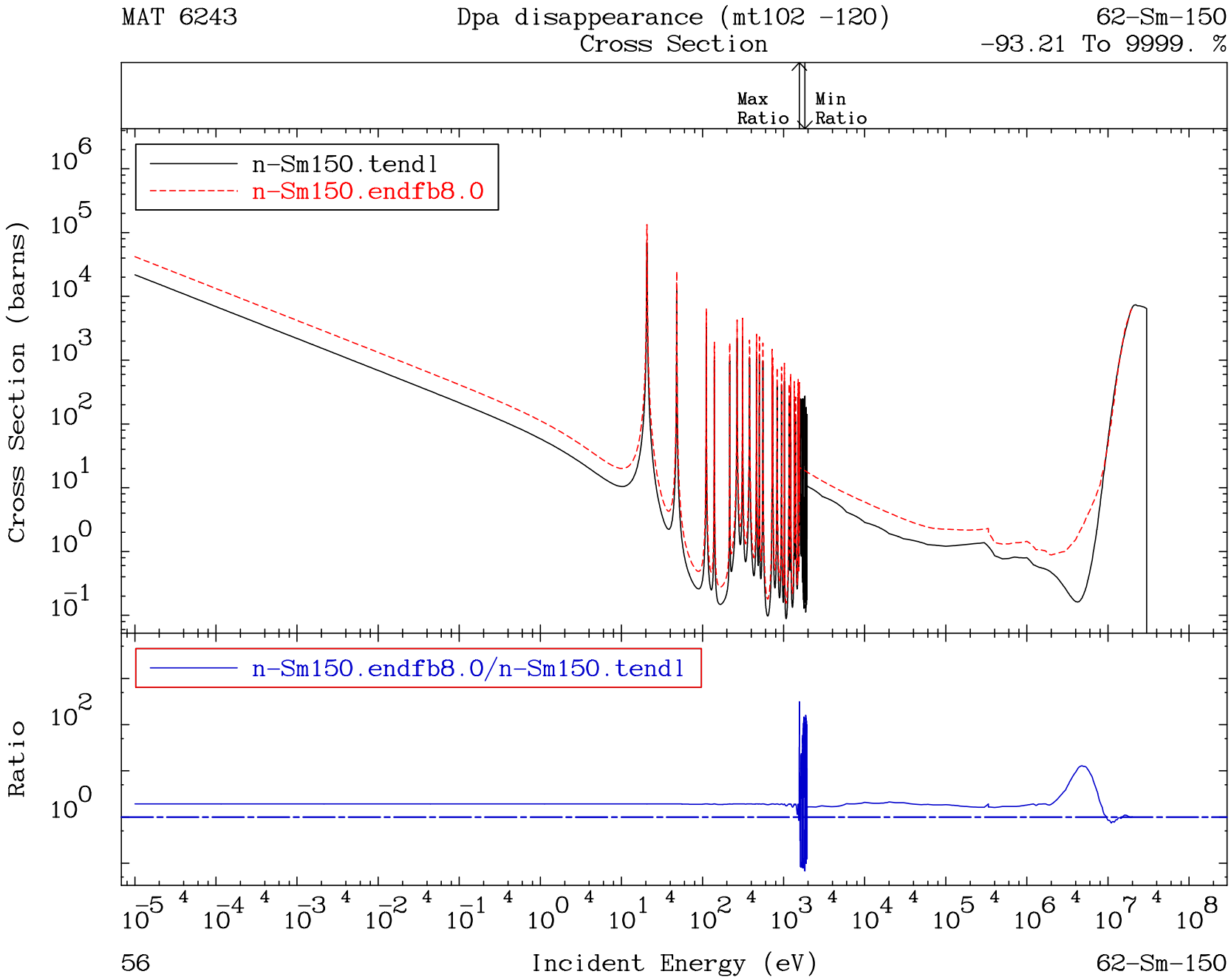

MAT 6243
Total photon (eV-barns)
Cross Section
62-Sm-150
-96.47 To 9999. %
Max Ratio
Min Ratio
n-Sm150.tendl
n-Sm150.endfb8.0
Cross Section (barns)
Ratio
n-Sm150.endfb8.0/n-Sm150.tendl
Incident Energy (eV)
51
62-Sm-150


MAT 6243
Total kinematic kerma (high limit)
Cross Section
62-Sm-150
-96.47 To 9999. %
Max Ratio
Min Ratio
n-Sm150.tendl
n-Sm150.endfb8.0
Cross Section (barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
Incident Energy (eV)
52
62-Sm-150


MAT 6243
Dpa total (eV-barns)
Cross Section
62-Sm-150
-97.16 To 9999. %
Max Ratio
Min Ratio
n-Sm150.tendl
n-Sm150.endfb8.0
Cross Section (barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
53
Incident Energy (eV)
62-Sm-150


MAT 6243
Dpa elastic (mt2)
Cross Section
62-Sm-150
-97.85 To 9999. %
Max
Ratio
n-Sm150.tendl Threshold 896.18 eV
n-Sm150.endfb8.0 Threshold 887.61 eV
Cross Section (barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
Incident Energy (eV)
54
62-Sm-150


MAT 6243
Dpa inelastic (mt51-91)
Cross Section
62-Sm-150
-30.42 To 159.1 %
Min Ratio
Max Ratio
n-Sm150.tendl Threshold 336.20 keV
n-Sm150.endfb8.0 Threshold 396.00 keV
Cross Section (barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
Incident Energy (eV)
55
62-Sm-150


MAT 6243
Dpa disappearance (mt102 -120)
Cross Section
62-Sm-150
-93.21 To 9999. %
Max Ratio
Min Ratio
n-Sm150.tendl
n-Sm150.endfb8.0
Cross Section (barns)
n-Sm150.endfb8.0/n-Sm150.tendl
Ratio
56
Incident Energy (eV)
62-Sm-150