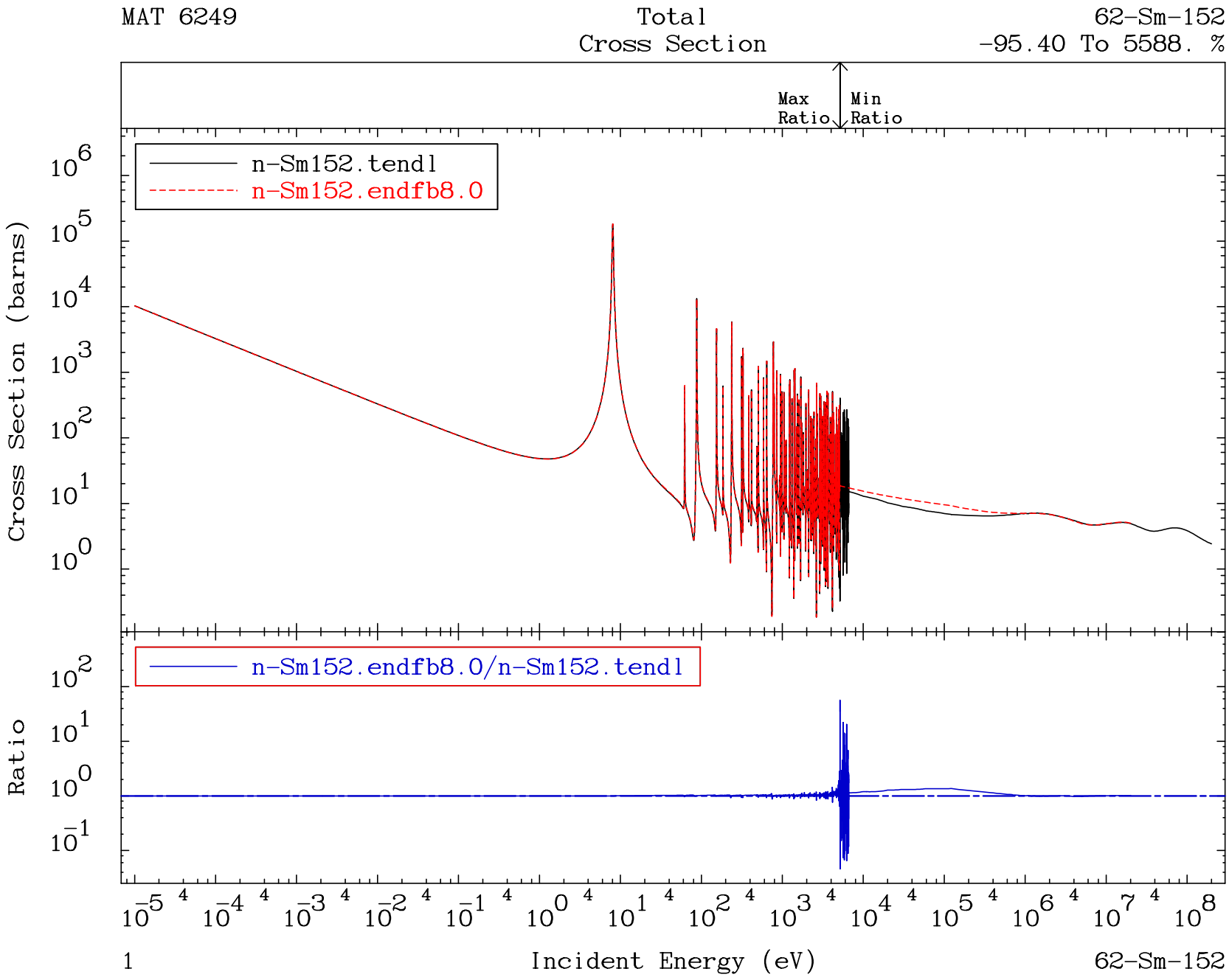
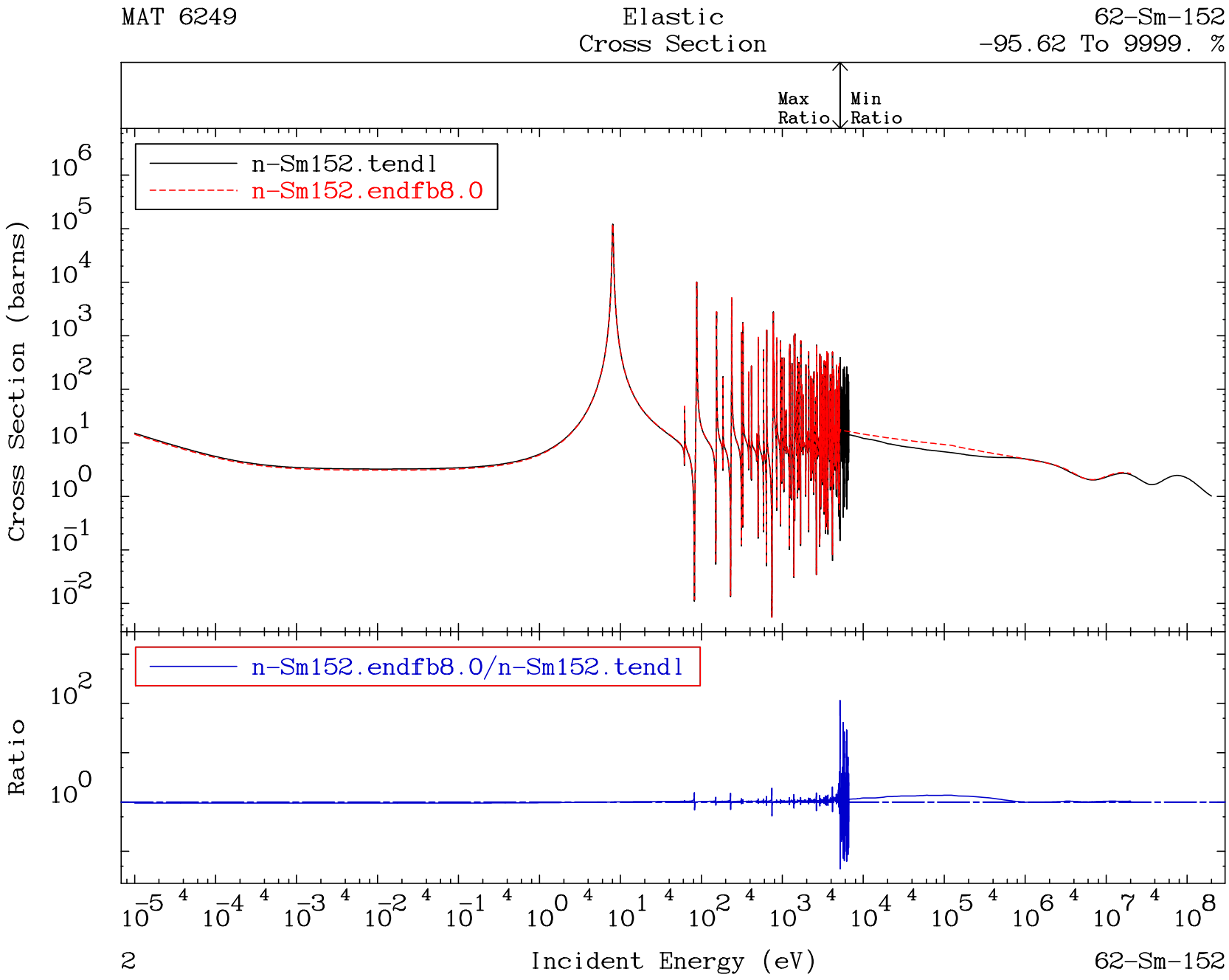
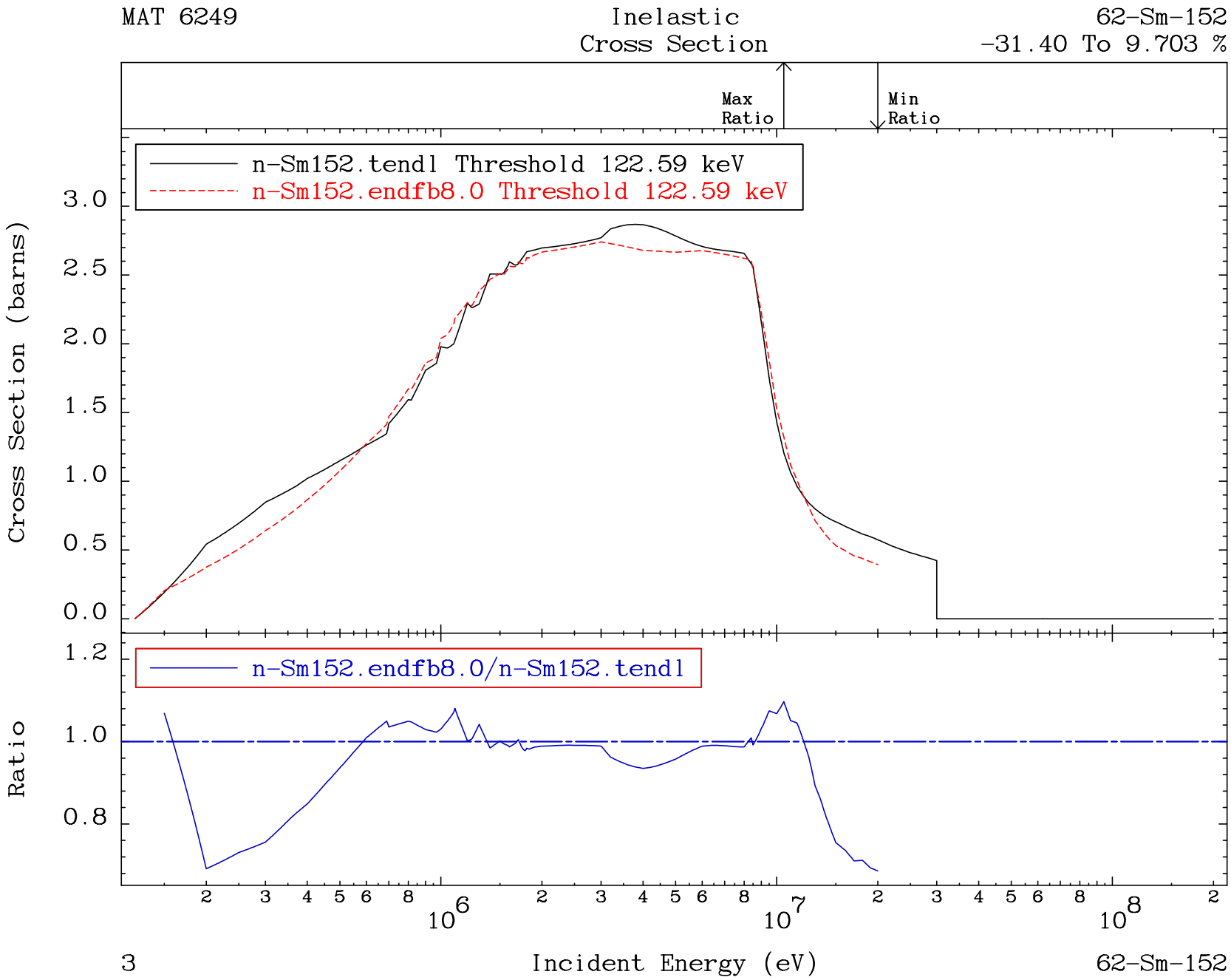
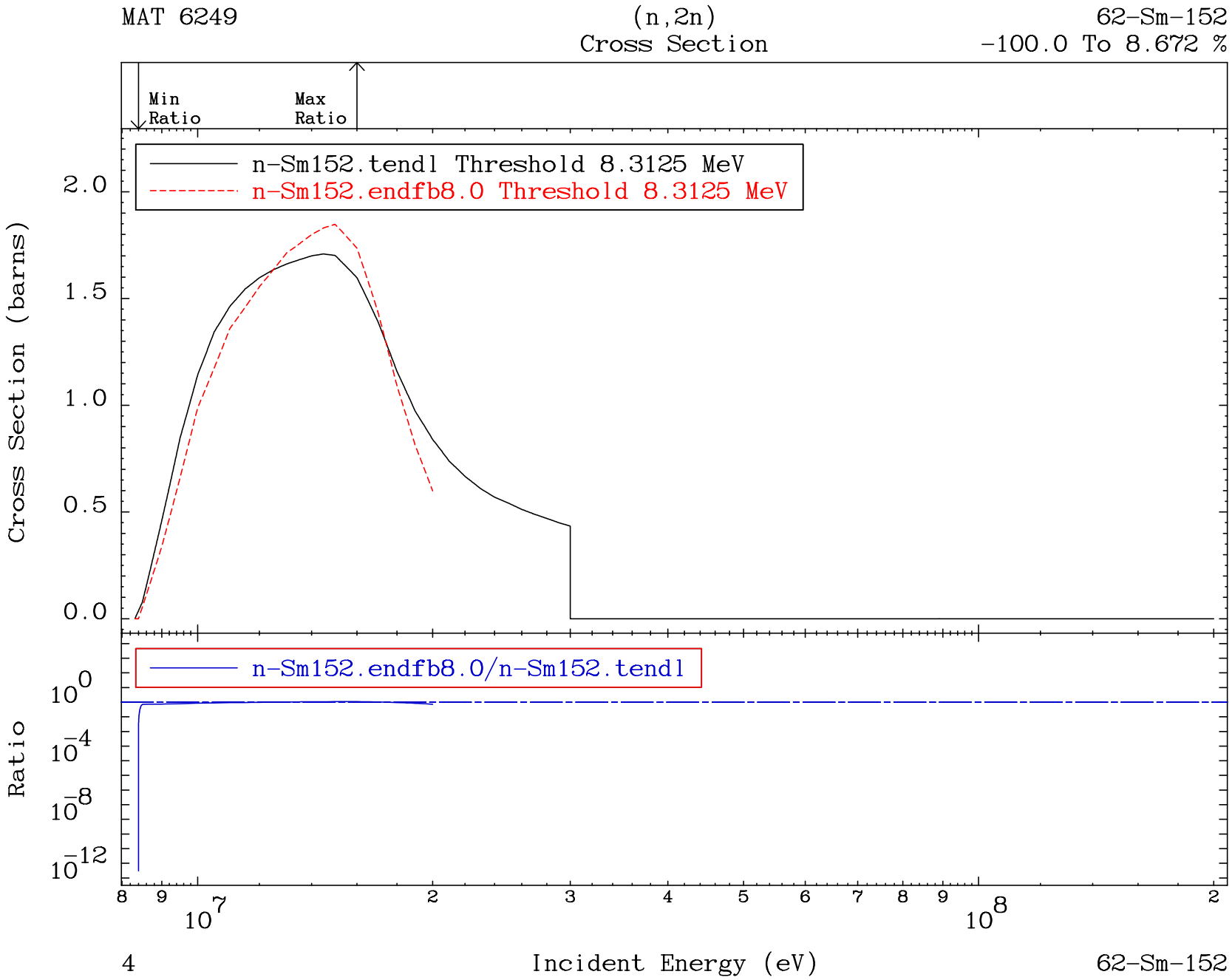
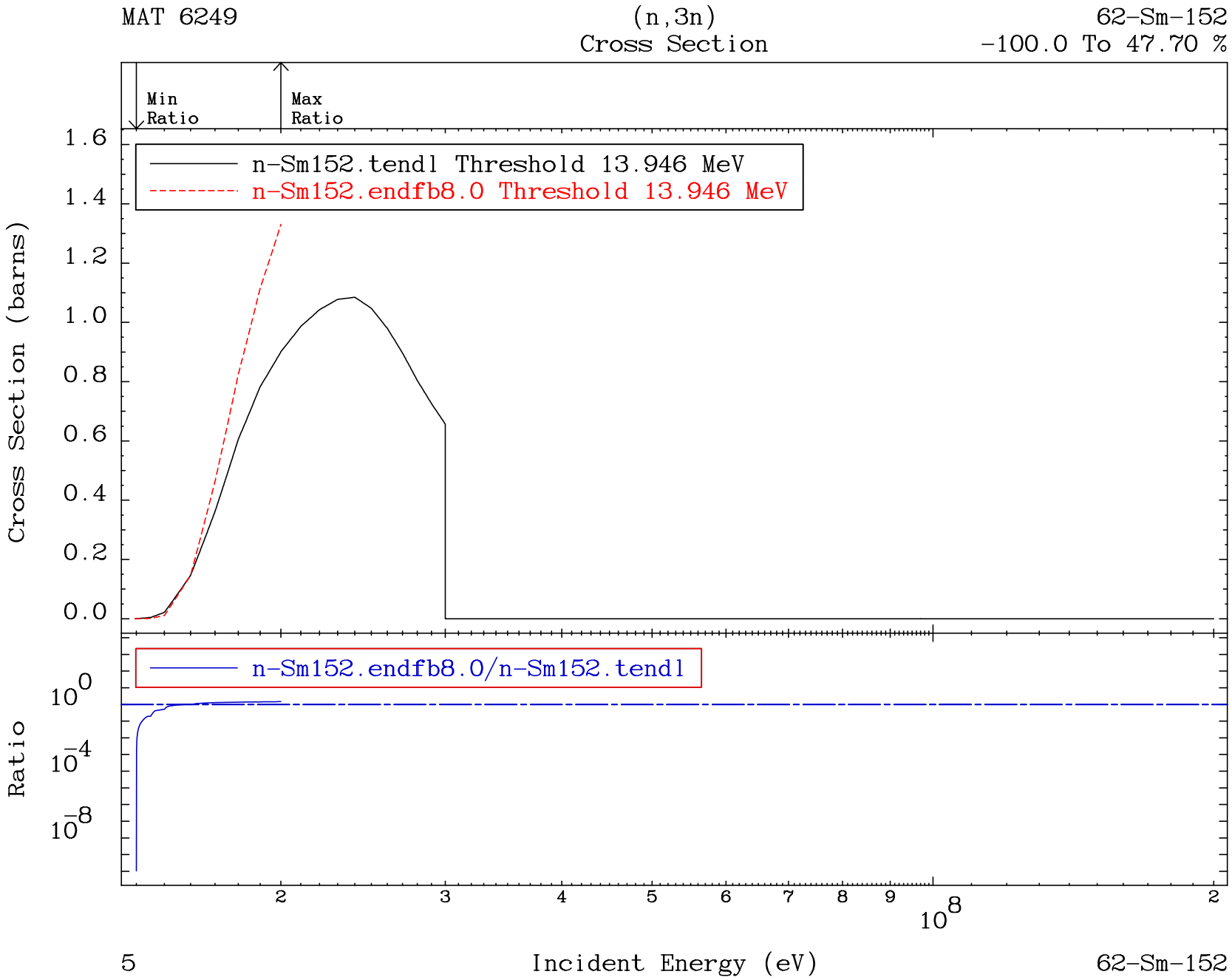
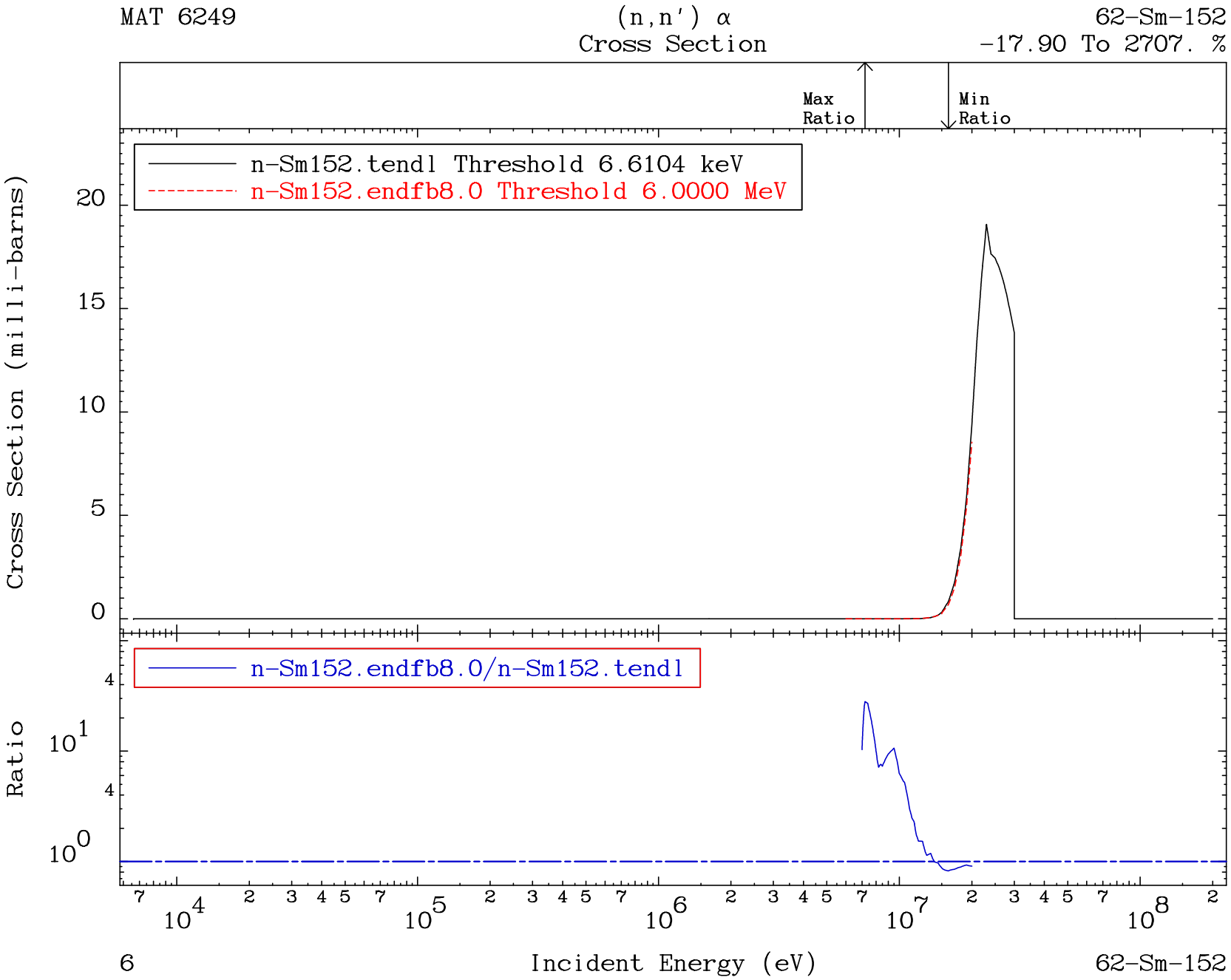

MAT 6249
Total
Cross Section
62-Sm-152
-95.40 To 5588. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
Incident Energy (eV)
1
62-Sm-152

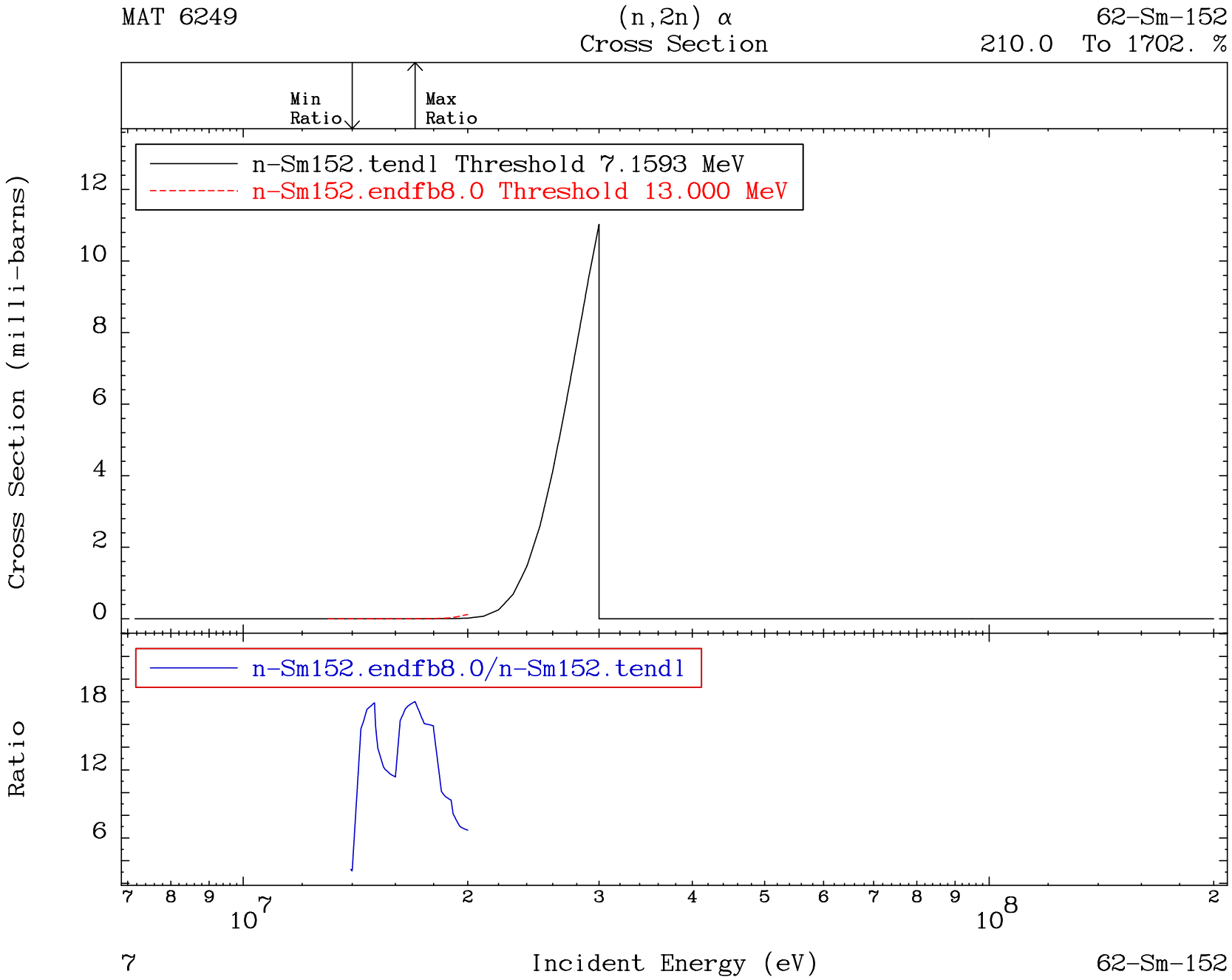

MAT 6249
Elastic
Cross Section
62-Sm-152
-95.62 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
Incident Energy (eV)
2
62-Sm-152

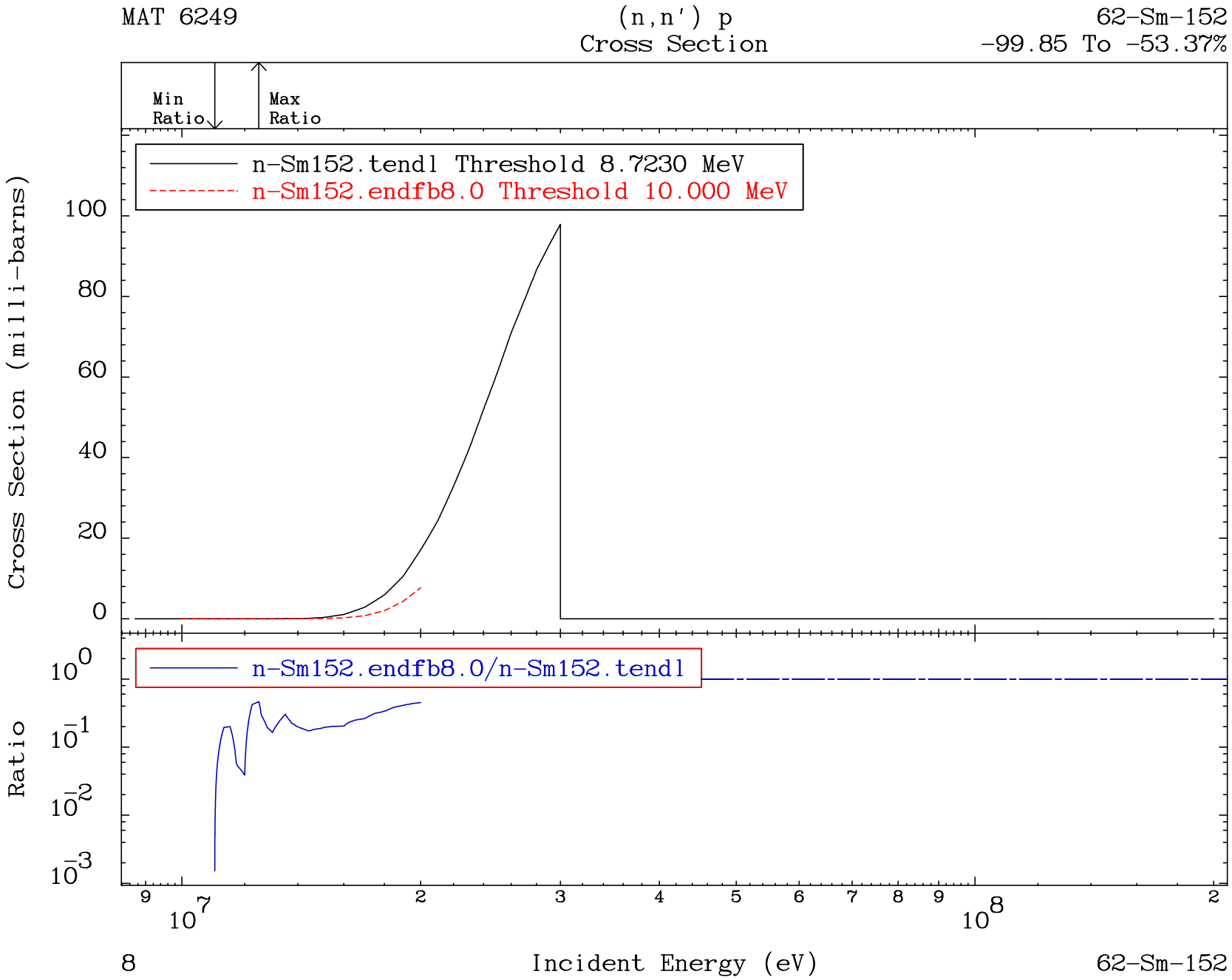

MAT 6249
Inelastic
Cross Section
62-Sm-152
-31.40 To 9.703 %
Max
Ratio
Min
Ratio
n-Sm152.tendl Threshold 122.59 keV
n-Sm152.endfb8.0 Threshold 122.59 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
1.2
1.0
0.8
2
3
4
5
6
8
10^6
10^7
10^8
3
Incident Energy (eV)
62-Sm-152

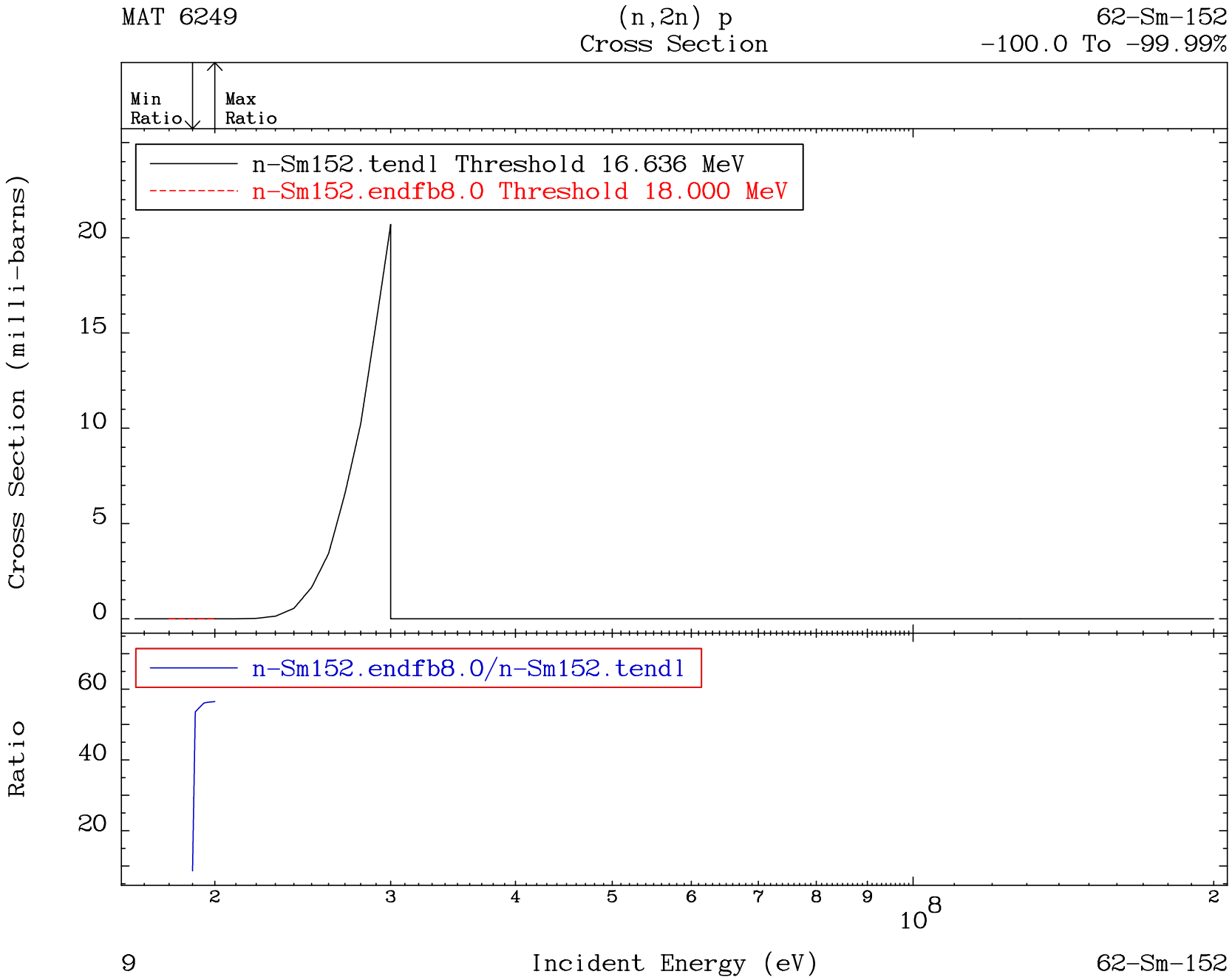

MAT 6249
(n,2n)
Cross Section
62-Sm-152
-100.0 To 8.672 %
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 8.3125 MeV
n-Sm152.endfb8.0 Threshold 8.3125 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-4
10^-8
10^-12
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
62-Sm-152

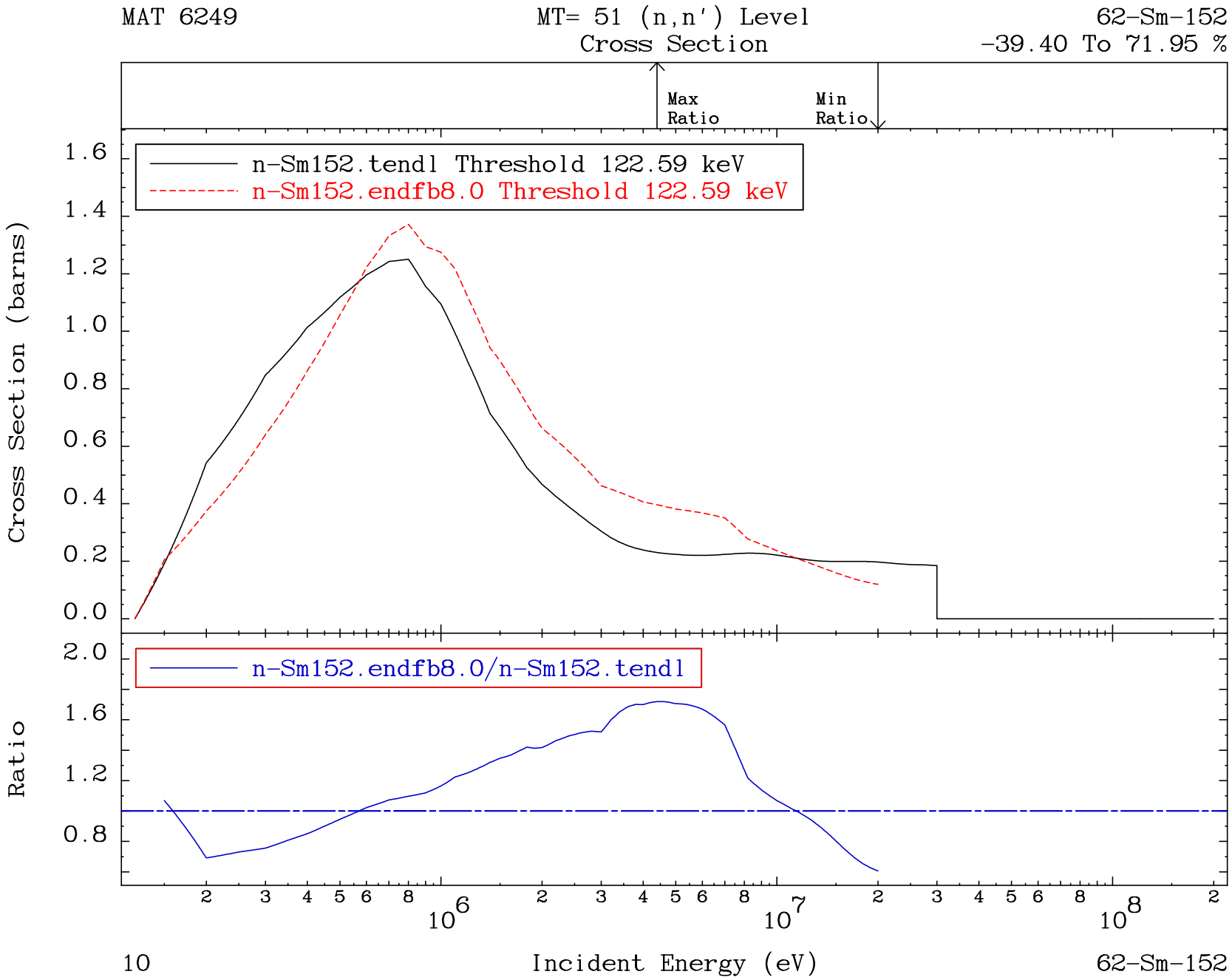

MAT 6249
(n,3n)
Cross Section
62-Sm-152
-100.0 To 47.70 %
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 13.946 MeV
n-Sm152.endfb8.0 Threshold 13.946 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-4
10^-8
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
62-Sm-152

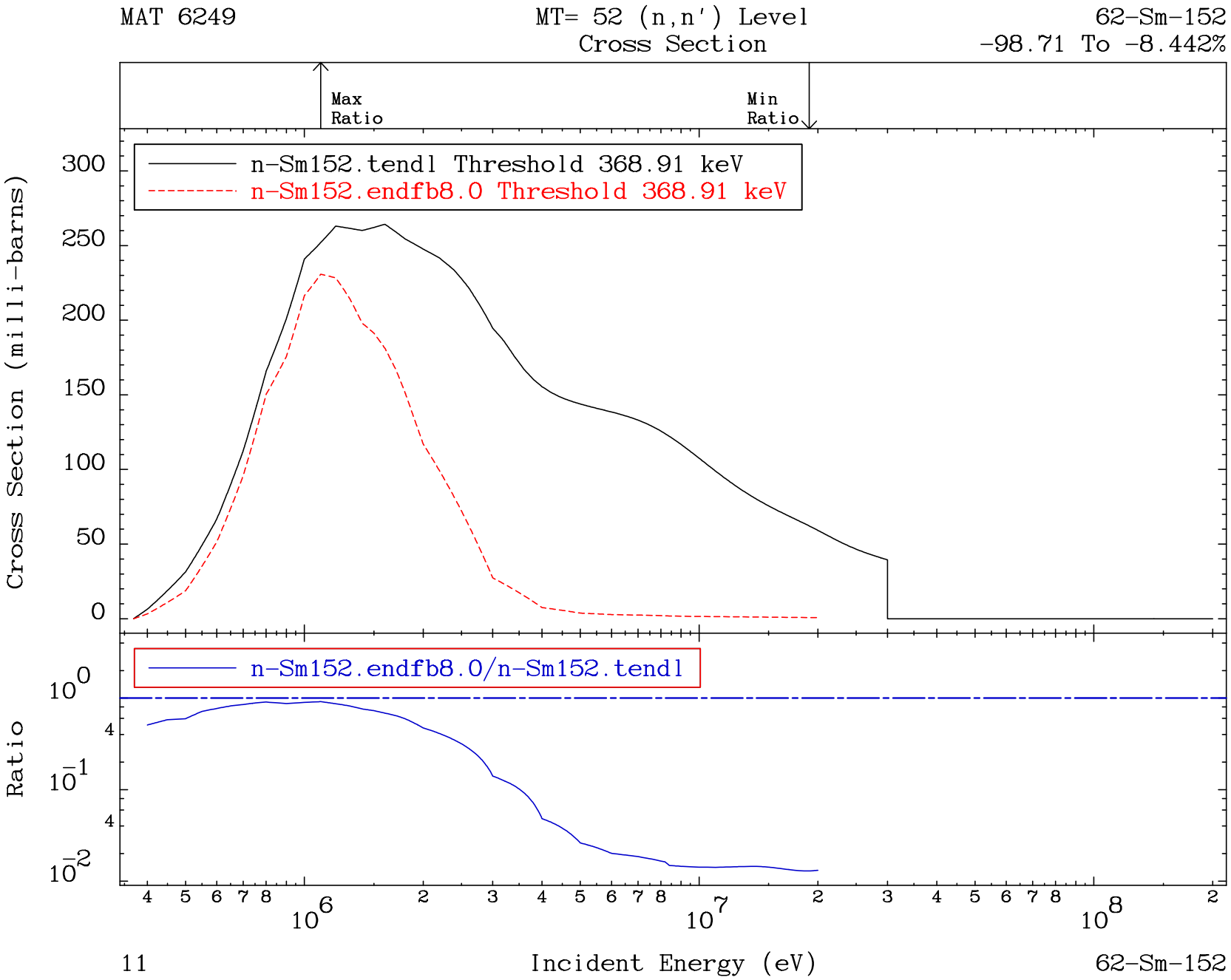

MAT 6249
(n,n') α
Cross Section
62-Sm-152
-17.90 To 2707. %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 6.6104 keV
n-Sm152.endfb8.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^1
10^0
10^4
10^5
10^6
10^7
10^8
Incident Energy (eV)
6
62-Sm-152

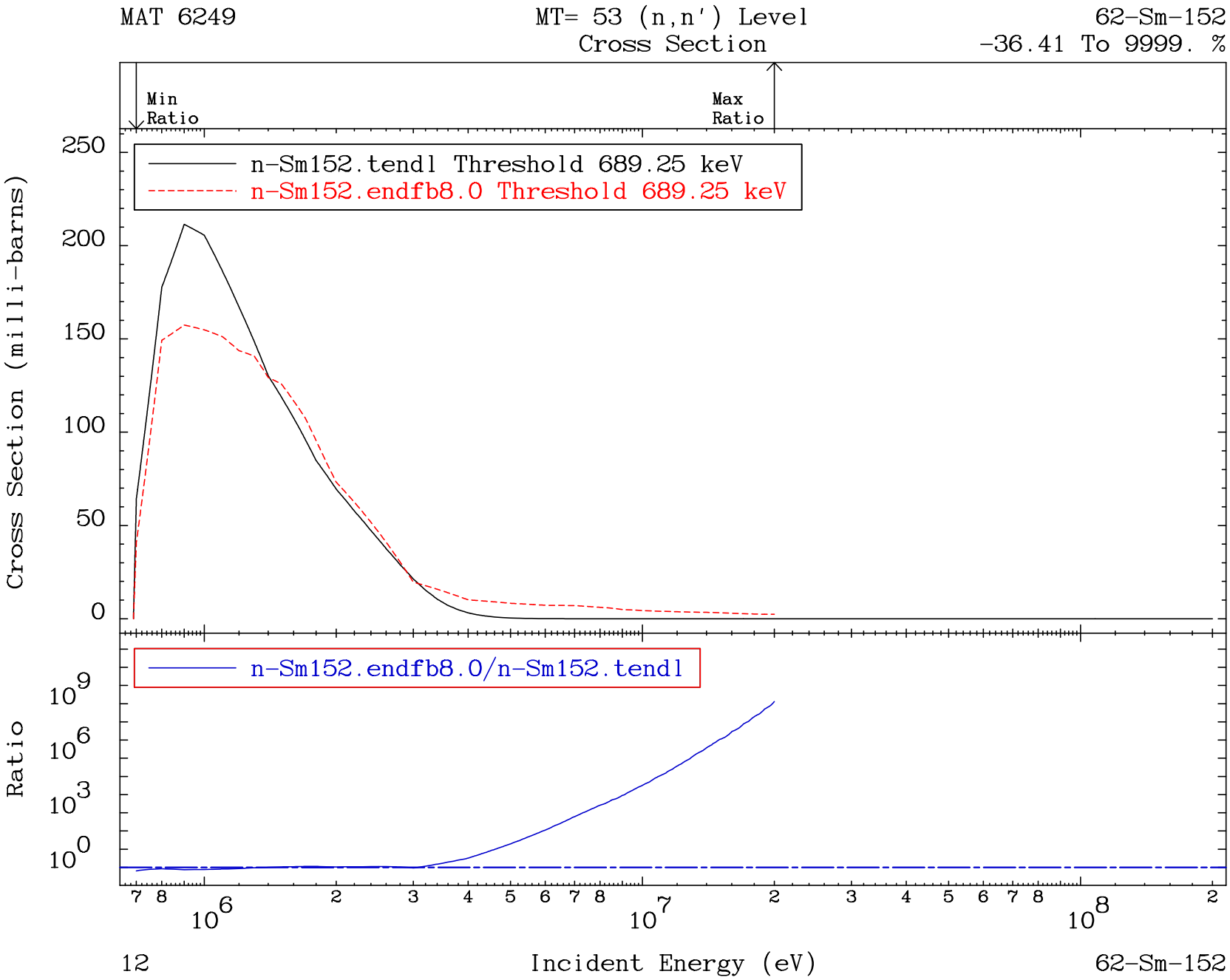

MAT 6249
(n,2n) α
Cross Section
62-Sm-152
210.0 To 1702. %
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 7.1593 MeV
n-Sm152.endfb8.0 Threshold 13.000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
6
12
18
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
62-Sm-152

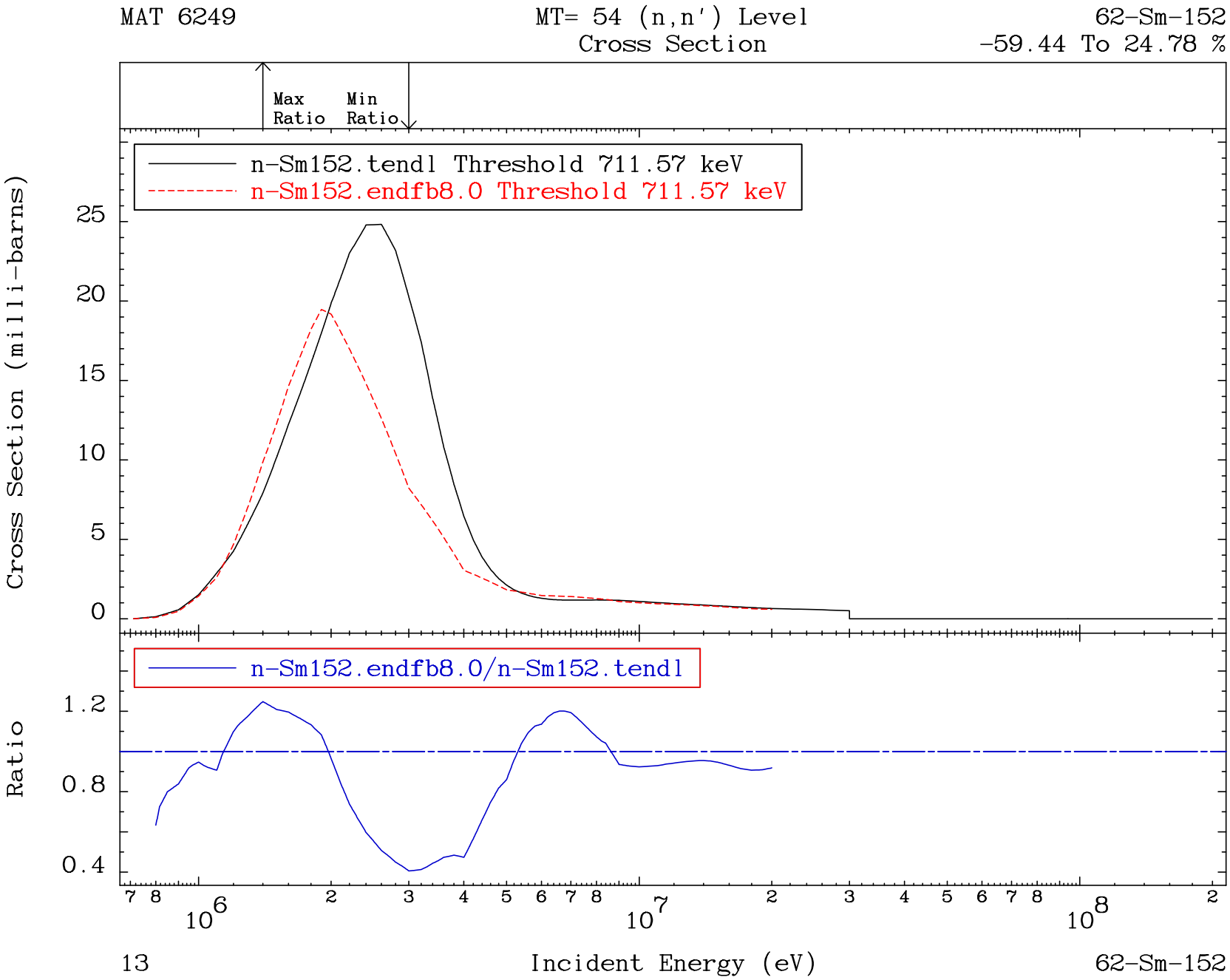

MAT 6249
(n,n') p
Cross Section
62-Sm-152
-99.85 To -53.37%
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 8.7230 MeV
n-Sm152.endfb8.0 Threshold 10.000 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-1
10^-2
10^-3
9
10^7
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
62-Sm-152

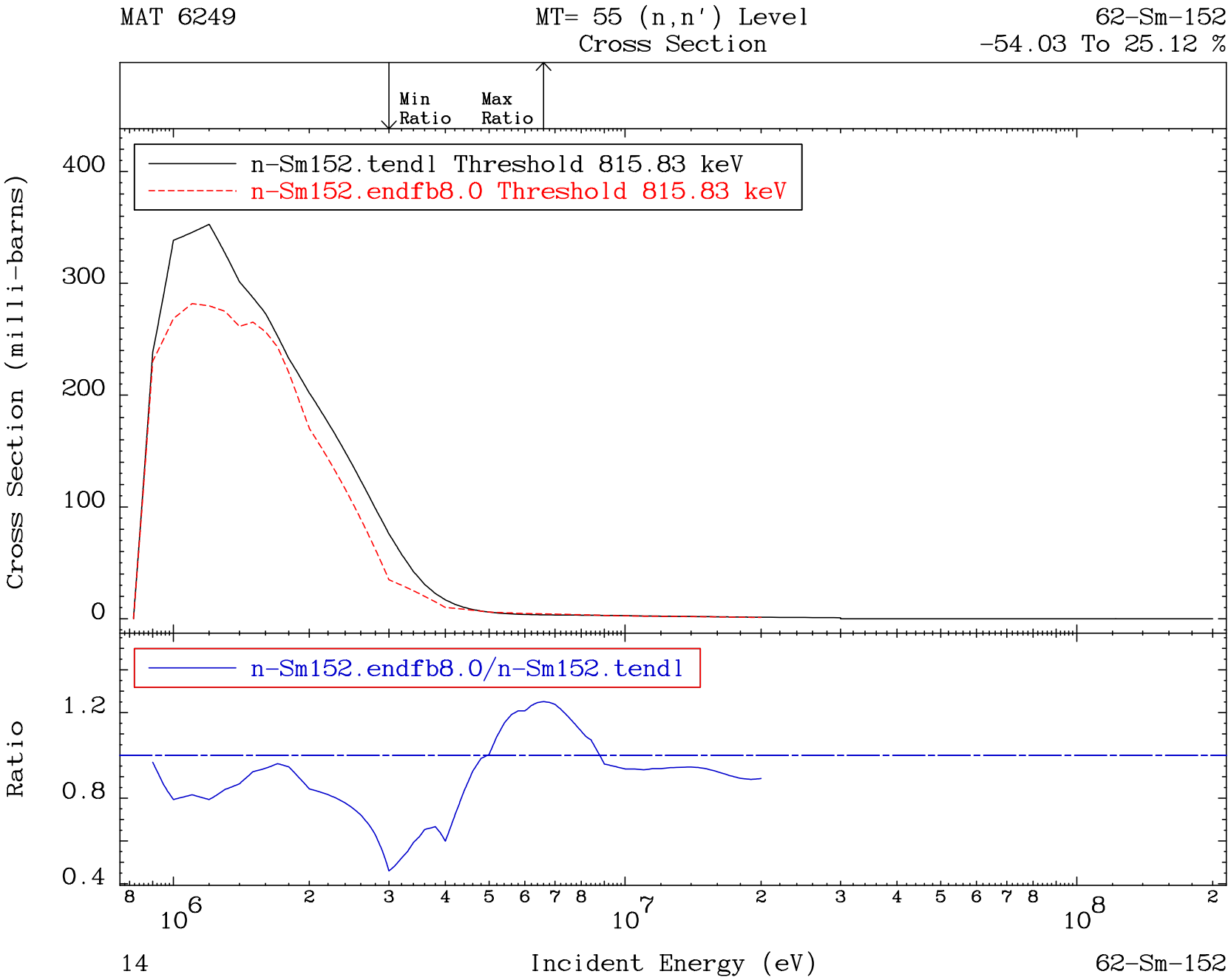

MAT 6249
(n,2n) p
Cross Section
62-Sm-152
-100.0 To -99.99%
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 16.636 MeV
n-Sm152.endfb8.0 Threshold 18.000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
60
40
20
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
62-Sm-152

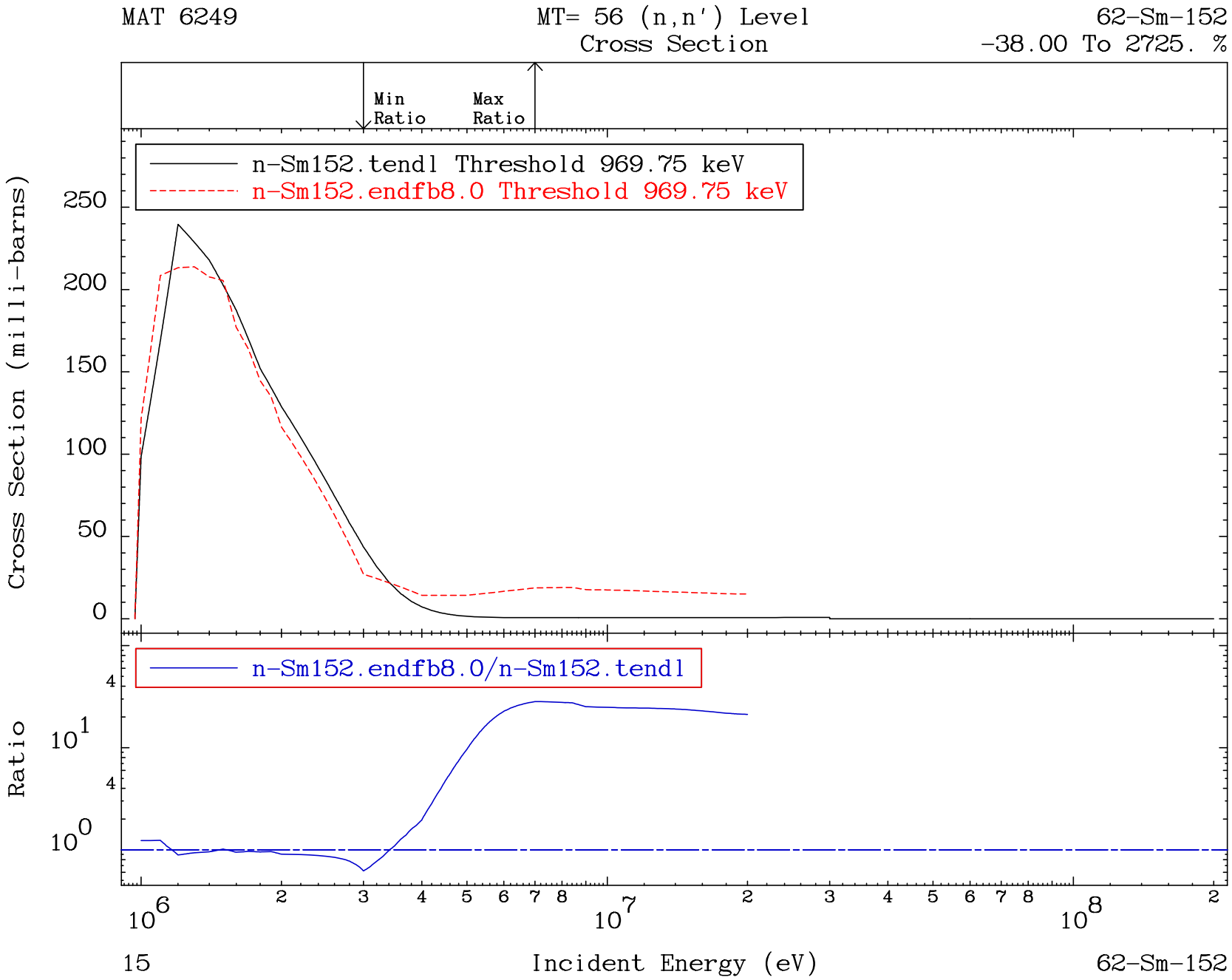

MAT 6249
MT= 51 (n,n') Level
Cross Section
62-Sm-152
-39.40 To 71.95 %
Max
Ratio
Min
Ratio
n-Sm152.tendl Threshold 122.59 keV
n-Sm152.endfb8.0 Threshold 122.59 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
2.0
1.6
1.2
0.8
2
3
4
5
6
8
10^6
10^7
10^8
10
Incident Energy (eV)
62-Sm-152

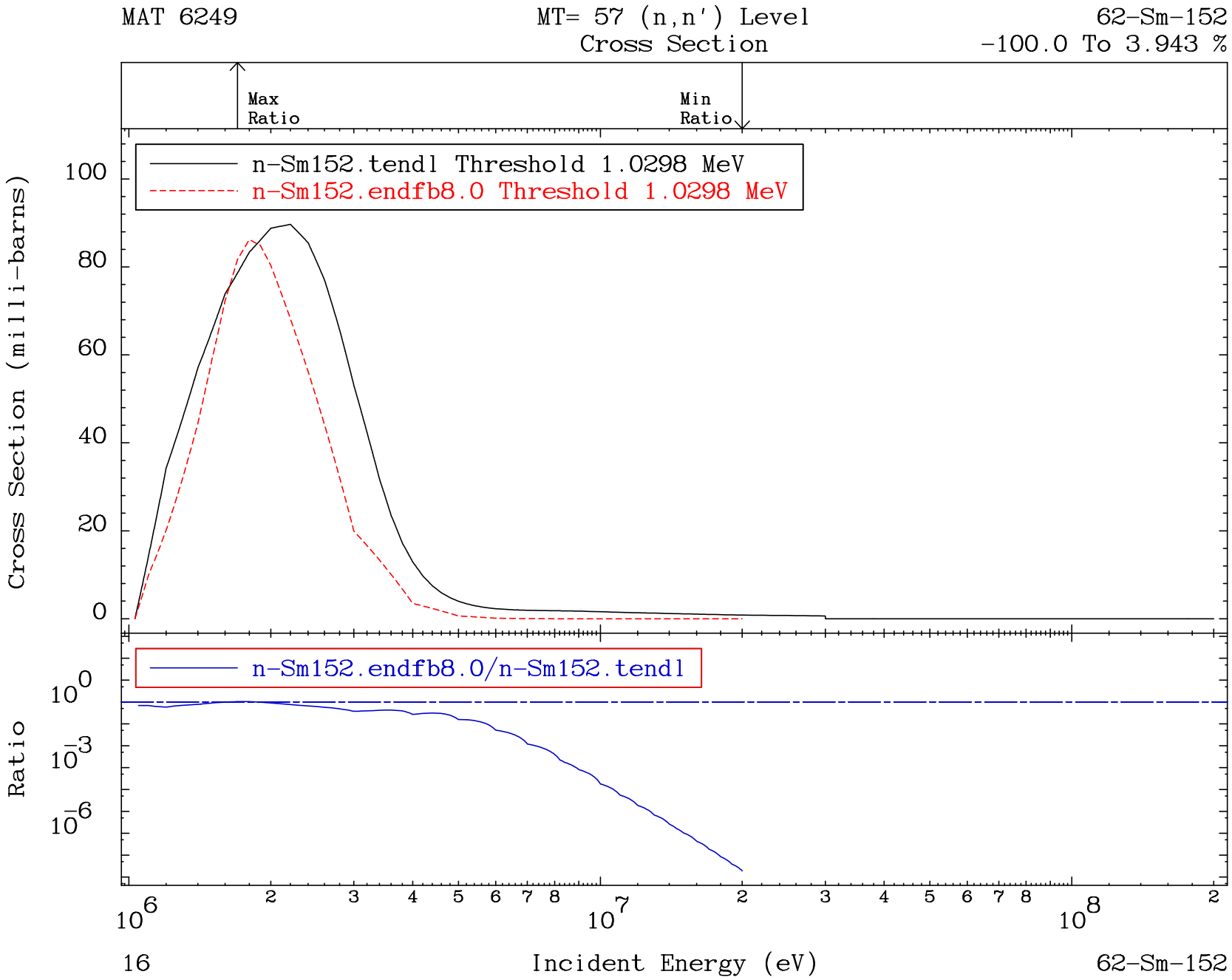

MAT 6249
MT= 52 (n,n') Level
Cross Section
62-Sm-152
-98.71 To -8.442%
Max
Ratio
Min
Ratio
n-Sm152.tendl Threshold 368.91 keV
n-Sm152.endfb8.0 Threshold 368.91 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-1
10^-2
4
4
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
62-Sm-152

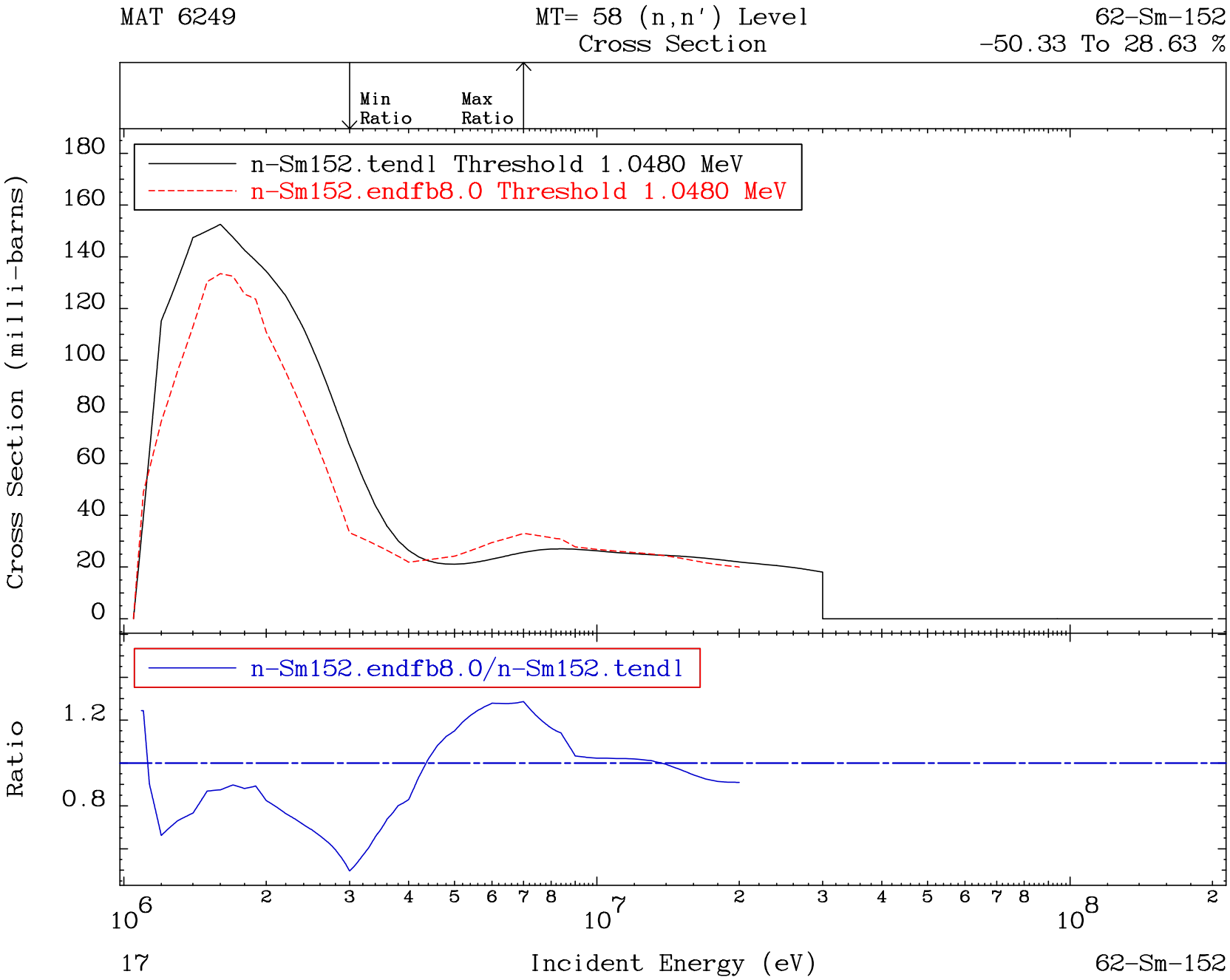

MAT 6249
MT= 53 (n,n') Level
Cross Section
62-Sm-152
-36.41 To 9999. %
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 689.25 keV
n-Sm152.endfb8.0 Threshold 689.25 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^9
10^6
10^3
10^0
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
12
Incident Energy (eV)
62-Sm-152

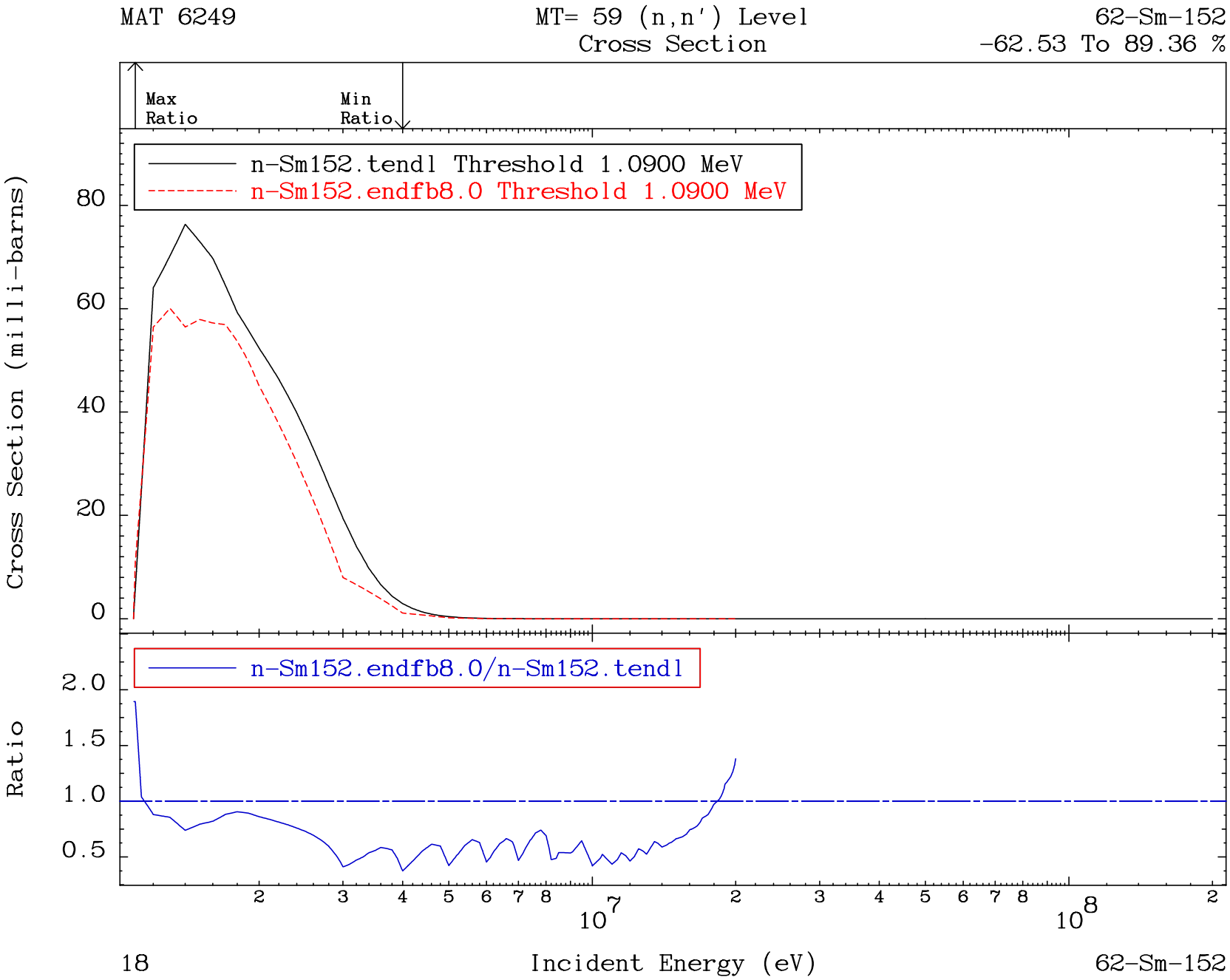

MAT 6249
MT= 54 (n,n') Level
Cross Section
62-Sm-152
-59.44 To 24.78 %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 711.57 keV
n-Sm152.endfb8.0 Threshold 711.57 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
1.2
0.8
0.4
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
62-Sm-152

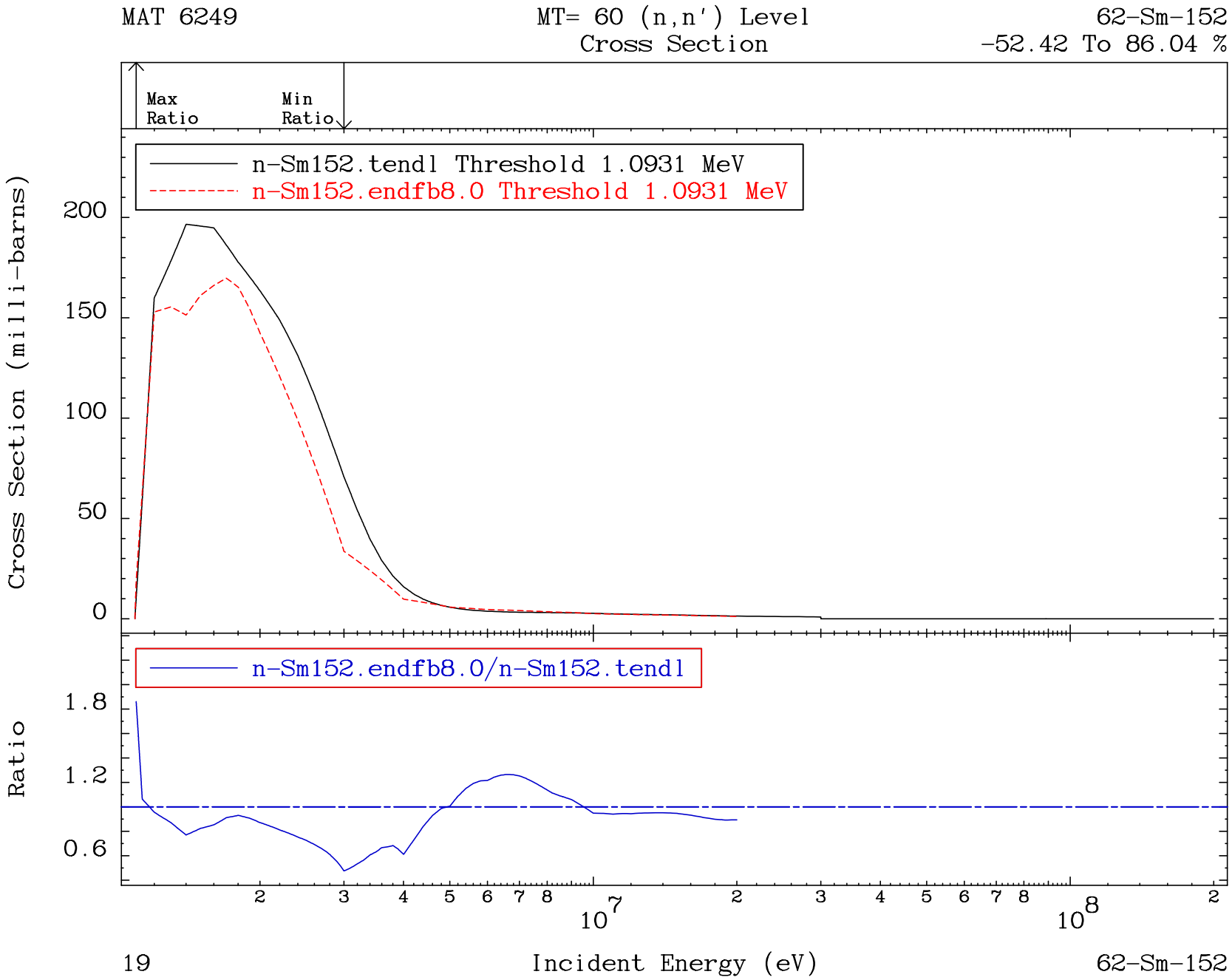

MAT 6249
MT= 55 (n,n') Level
Cross Section
62-Sm-152
-54.03 To 25.12 %
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 815.83 keV
n-Sm152.endfb8.0 Threshold 815.83 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
1.2
0.8
0.4
8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2
10^6
10^7
10^8
14
Incident Energy (eV)
62-Sm-152

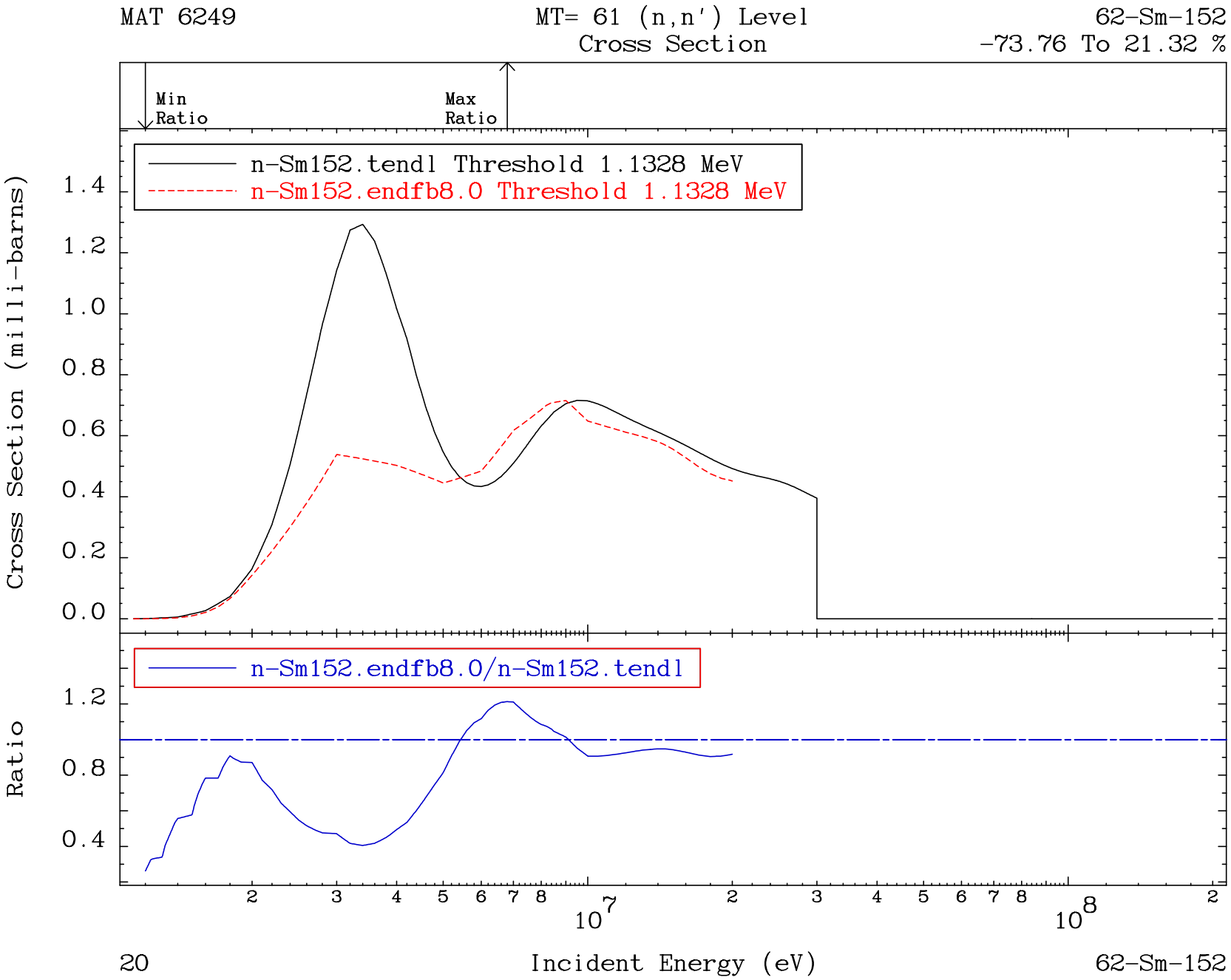

MAT 6249
MT= 56 (n,n') Level
Cross Section
62-Sm-152
-38.00 To 2725. %
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 969.75 keV
n-Sm152.endfb8.0 Threshold 969.75 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
4
10^1
4
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
62-Sm-152

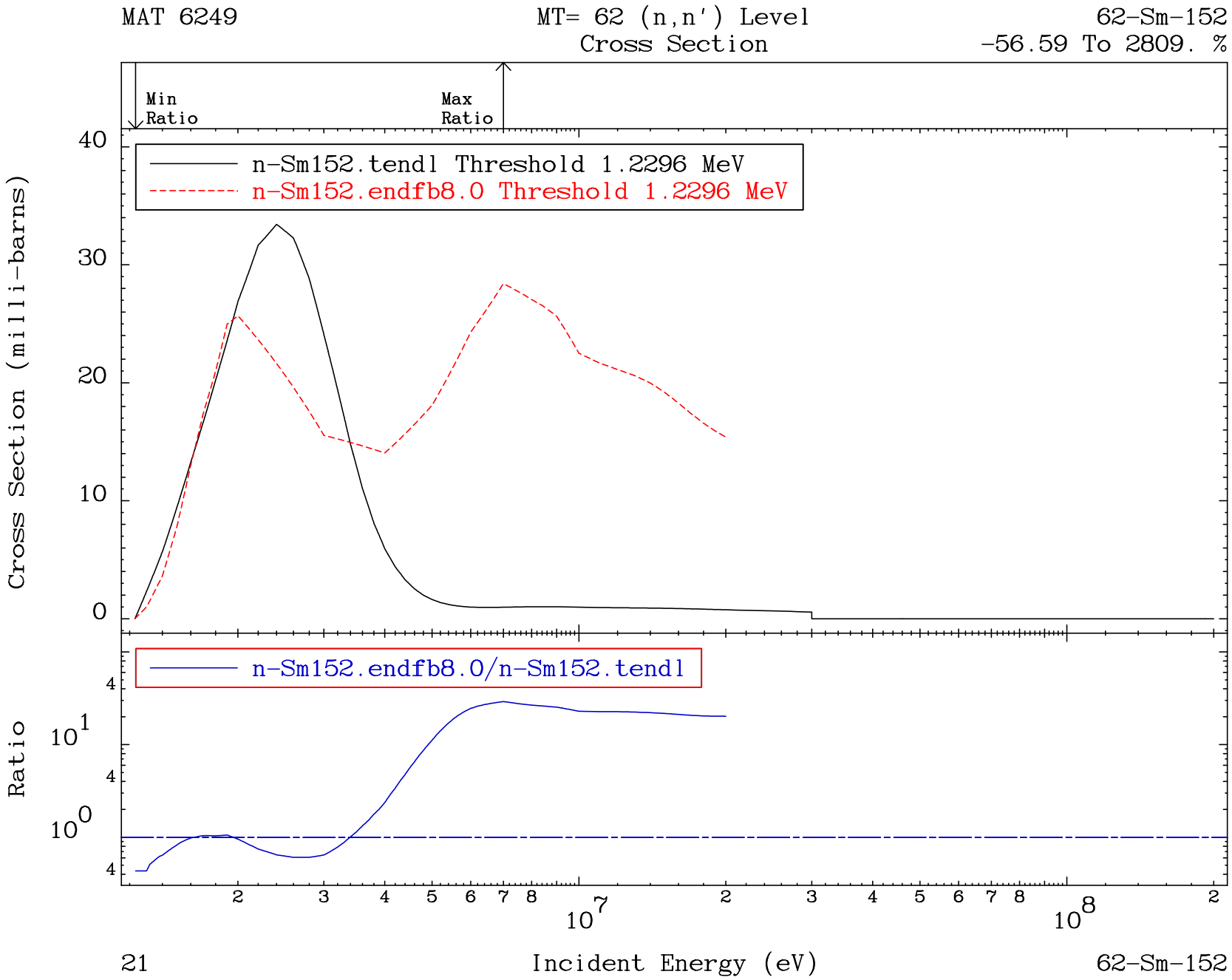

MAT 6249
MT= 57 (n,n') Level
Cross Section
62-Sm-152
-100.0 To 3.943 %
Max
Ratio
Min
Ratio
n-Sm152.tendl Threshold 1.0298 MeV
n-Sm152.endfb8.0 Threshold 1.0298 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-3
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
62-Sm-152

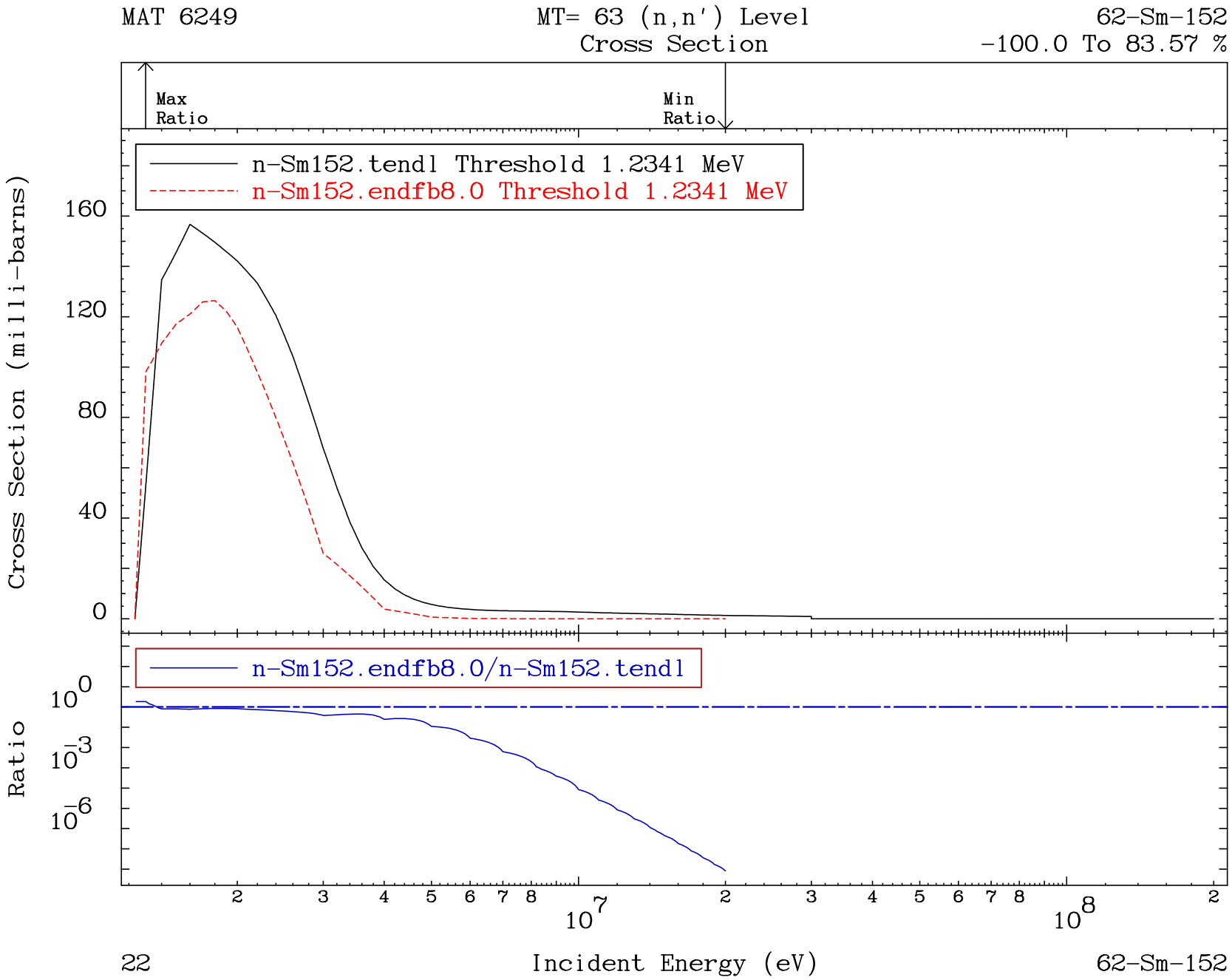

MAT 6249
MT= 58 (n,n') Level
Cross Section
62-Sm-152
-50.33 To 28.63 %
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 1.0480 MeV
n-Sm152.endfb8.0 Threshold 1.0480 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
1.2
0.8
10^6
10^7
10^8
2
3
4
5
6
7
8
17
Incident Energy (eV)
62-Sm-152

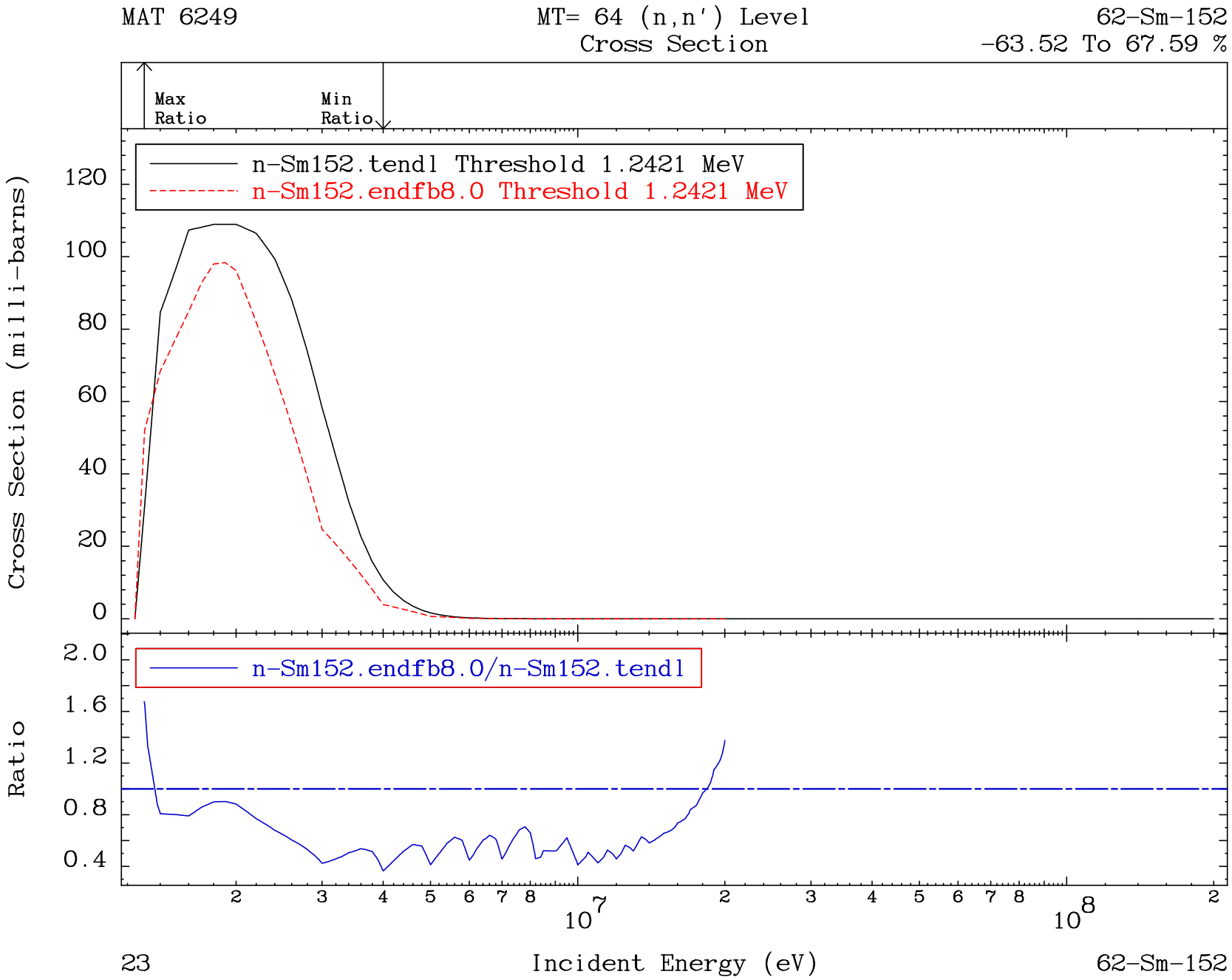

MAT 6249
MT= 59 (n,n') Level
Cross Section
62-Sm-152
-62.53 To 89.36 %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.0900 MeV
n-Sm152.endfb8.0 Threshold 1.0900 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
2.0
1.5
1.0
0.5
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
62-Sm-152

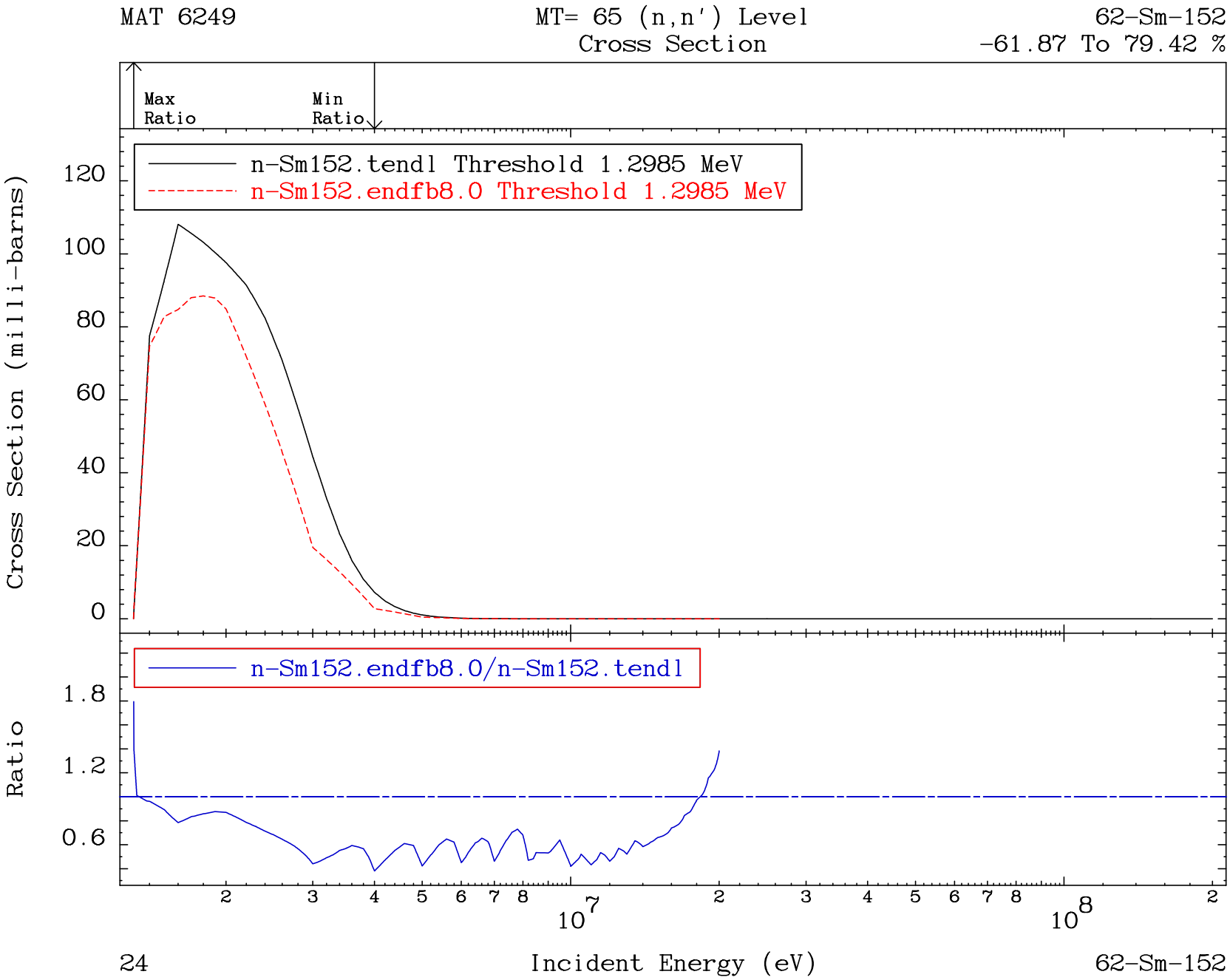

MAT 6249
MT= 60 (n,n') Level
Cross Section
62-Sm-152
-52.42 To 86.04 %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.0931 MeV
n-Sm152.endfb8.0 Threshold 1.0931 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
1.8
1.2
0.6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
62-Sm-152

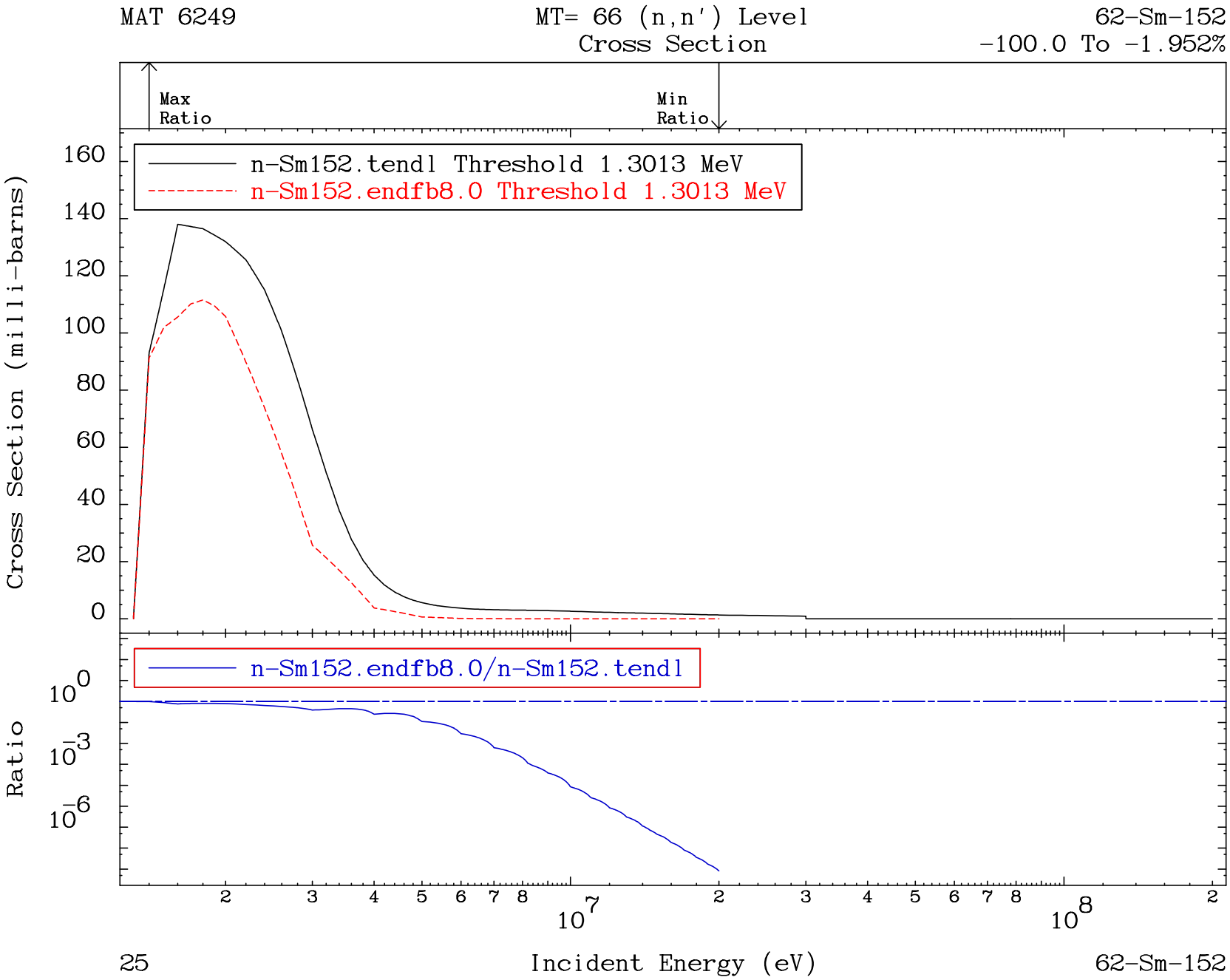

MAT 6249
MT= 61 (n,n') Level
Cross Section
62-Sm-152
-73.76 To 21.32 %
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 1.1328 MeV
n-Sm152.endfb8.0 Threshold 1.1328 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
62-Sm-152

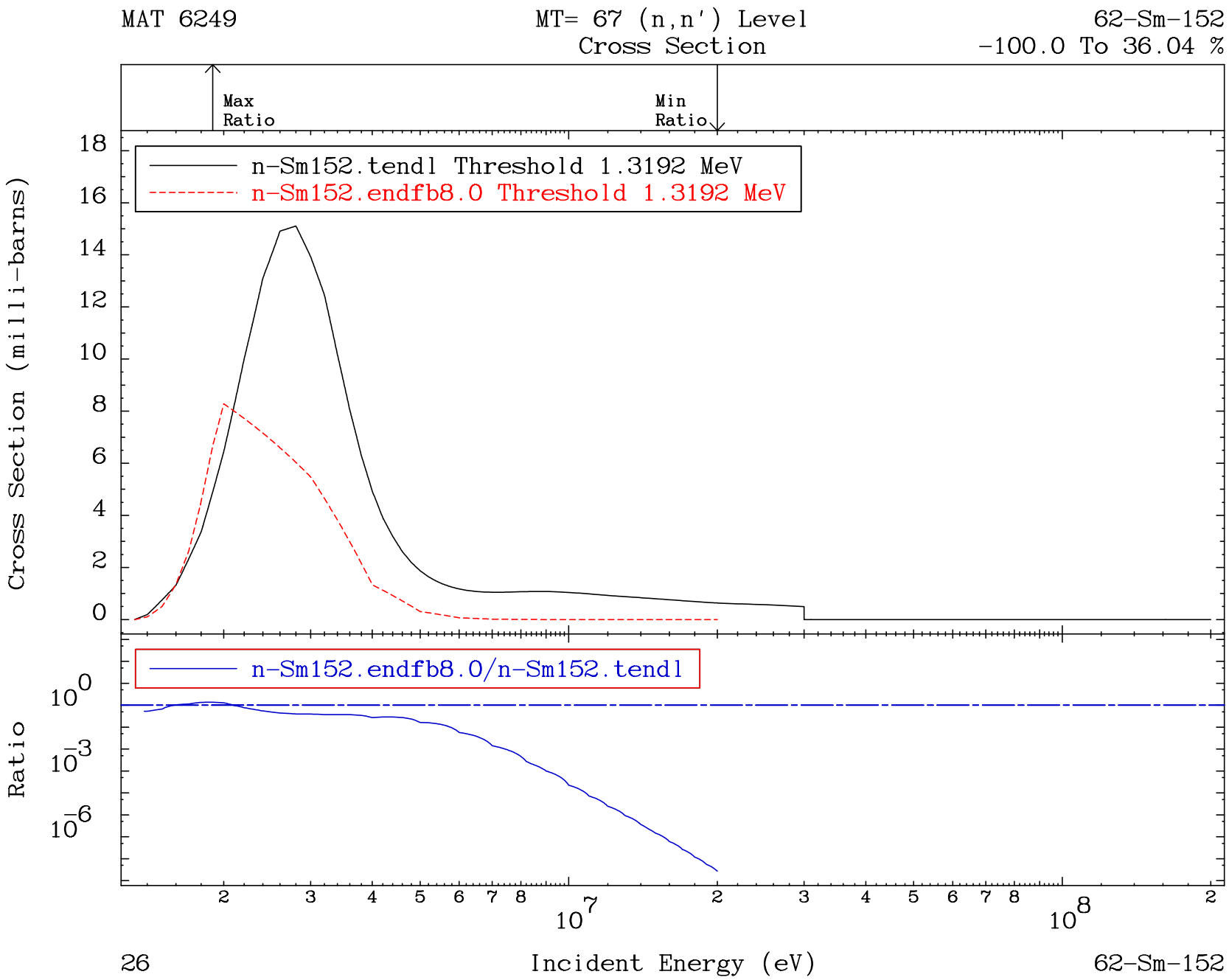

MAT 6249
MT= 62 (n,n') Level
Cross Section
62-Sm-152
-56.59 To 2809. %
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 1.2296 MeV
n-Sm152.endfb8.0 Threshold 1.2296 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^1
10^0
4
2 3 4 5 6 7 8
10^7
10^8
21
Incident Energy (eV)
62-Sm-152

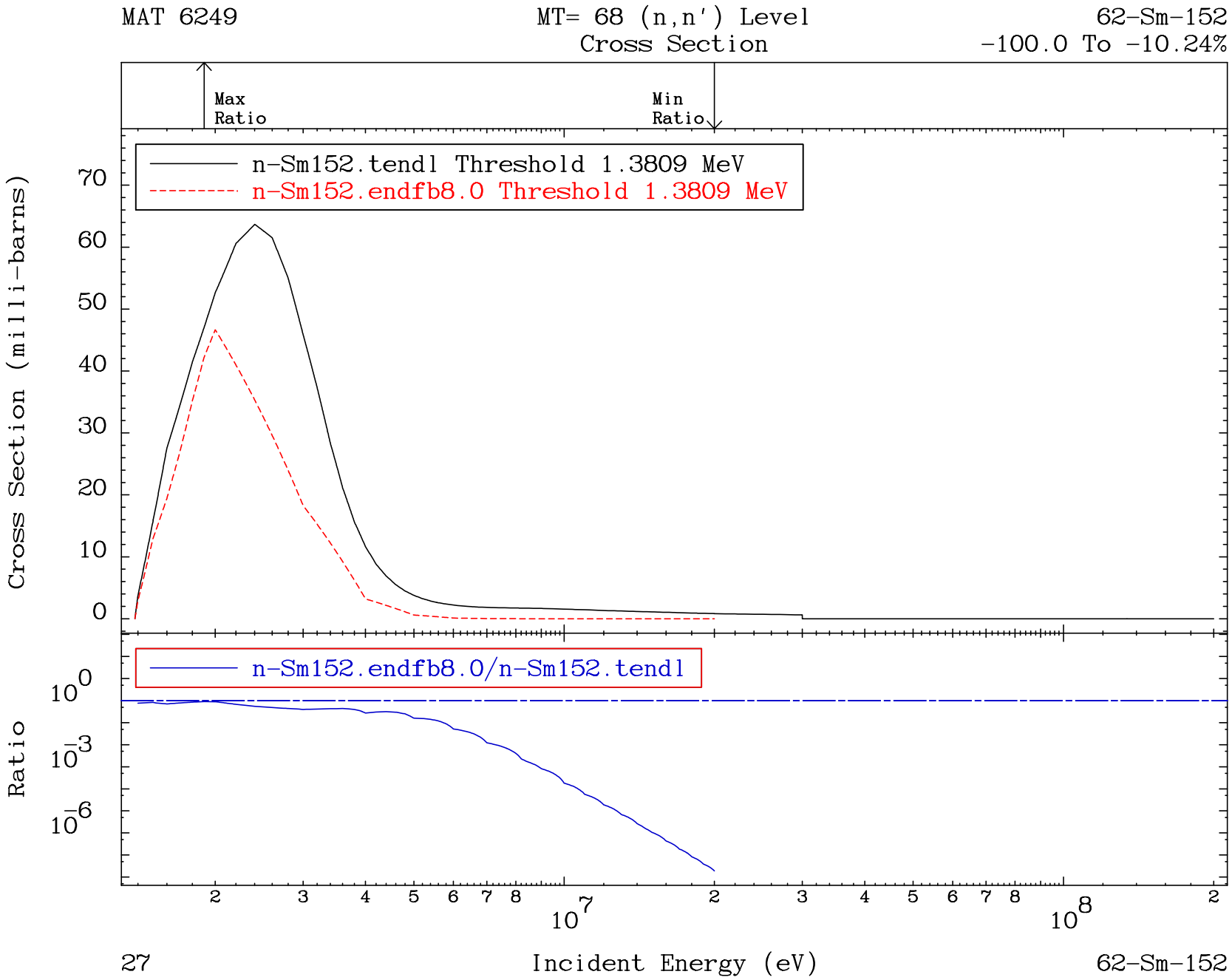

MAT 6249
MT= 63 (n,n') Level
Cross Section
62-Sm-152
-100.0 To 83.57 %
Max
Ratio
Min
Ratio
n-Sm152.tendl Threshold 1.2341 MeV
n-Sm152.endfb8.0 Threshold 1.2341 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
62-Sm-152

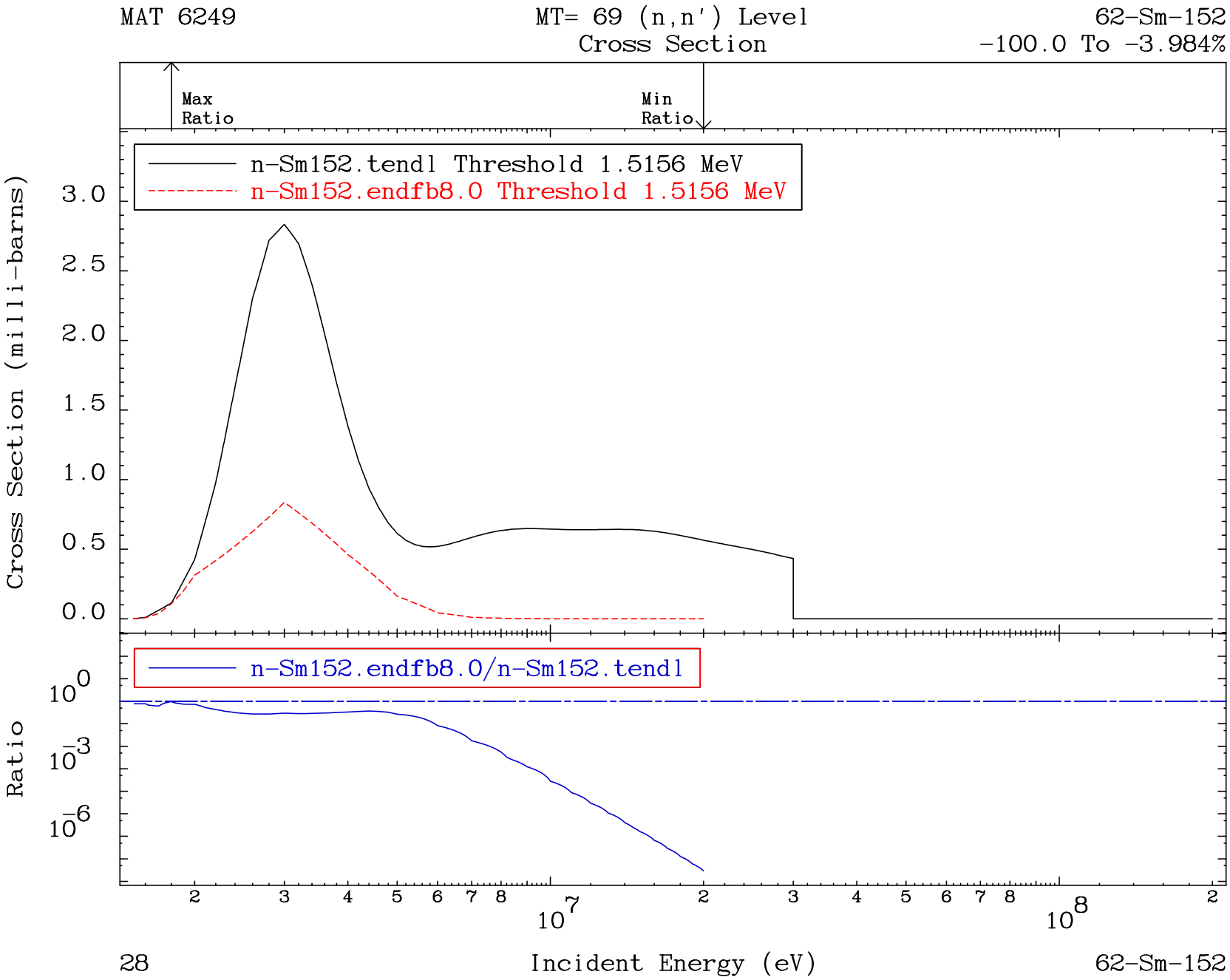

MAT 6249
MT= 64 (n,n') Level
Cross Section
62-Sm-152
-63.52 To 67.59 %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.2421 MeV
n-Sm152.endfb8.0 Threshold 1.2421 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
2.0
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
23
Incident Energy (eV)
62-Sm-152

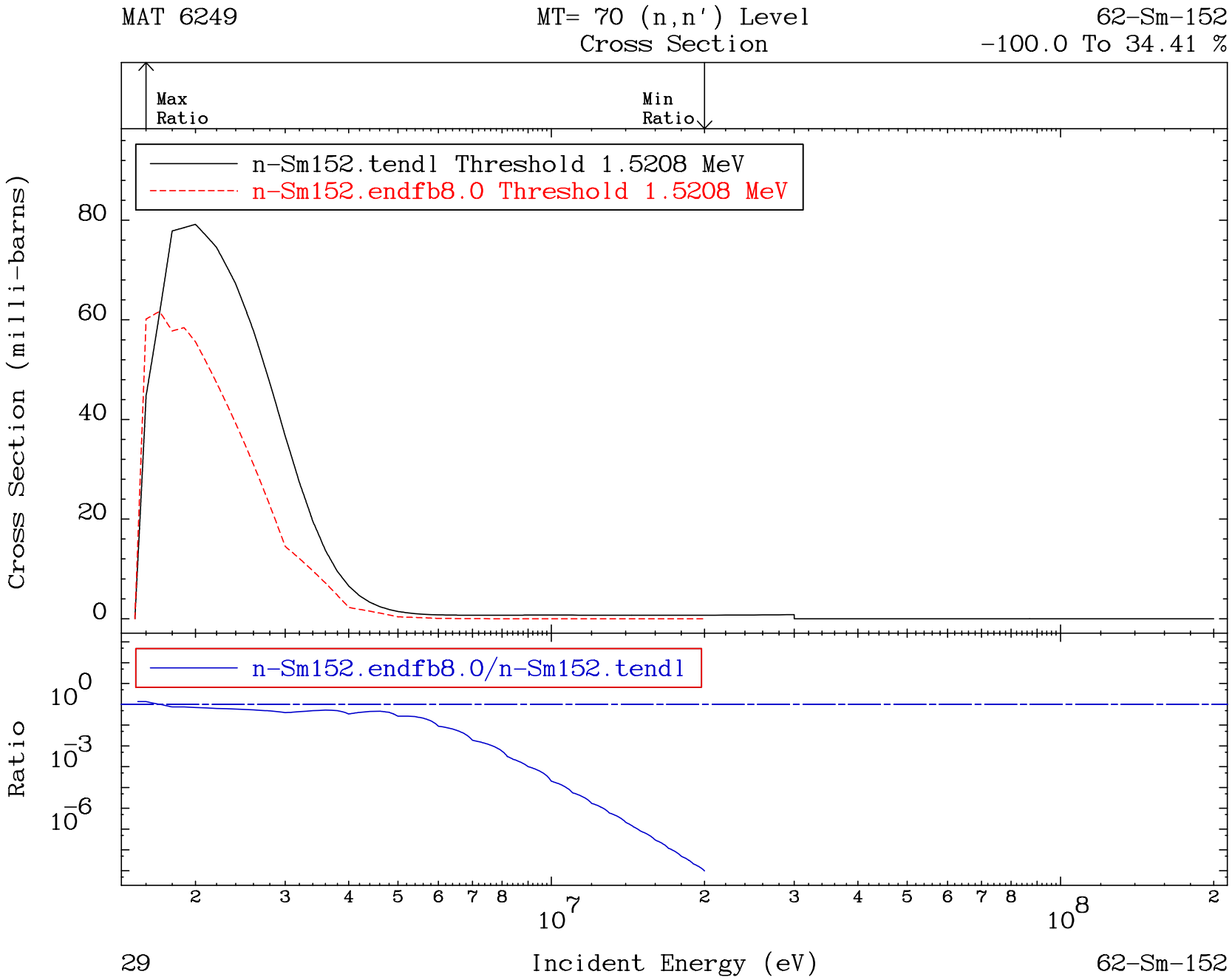

MAT 6249
MT= 65 (n,n') Level
Cross Section
62-Sm-152
-61.87 To 79.42 %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.2985 MeV
n-Sm152.endfb8.0 Threshold 1.2985 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
1.8
1.2
0.6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
62-Sm-152

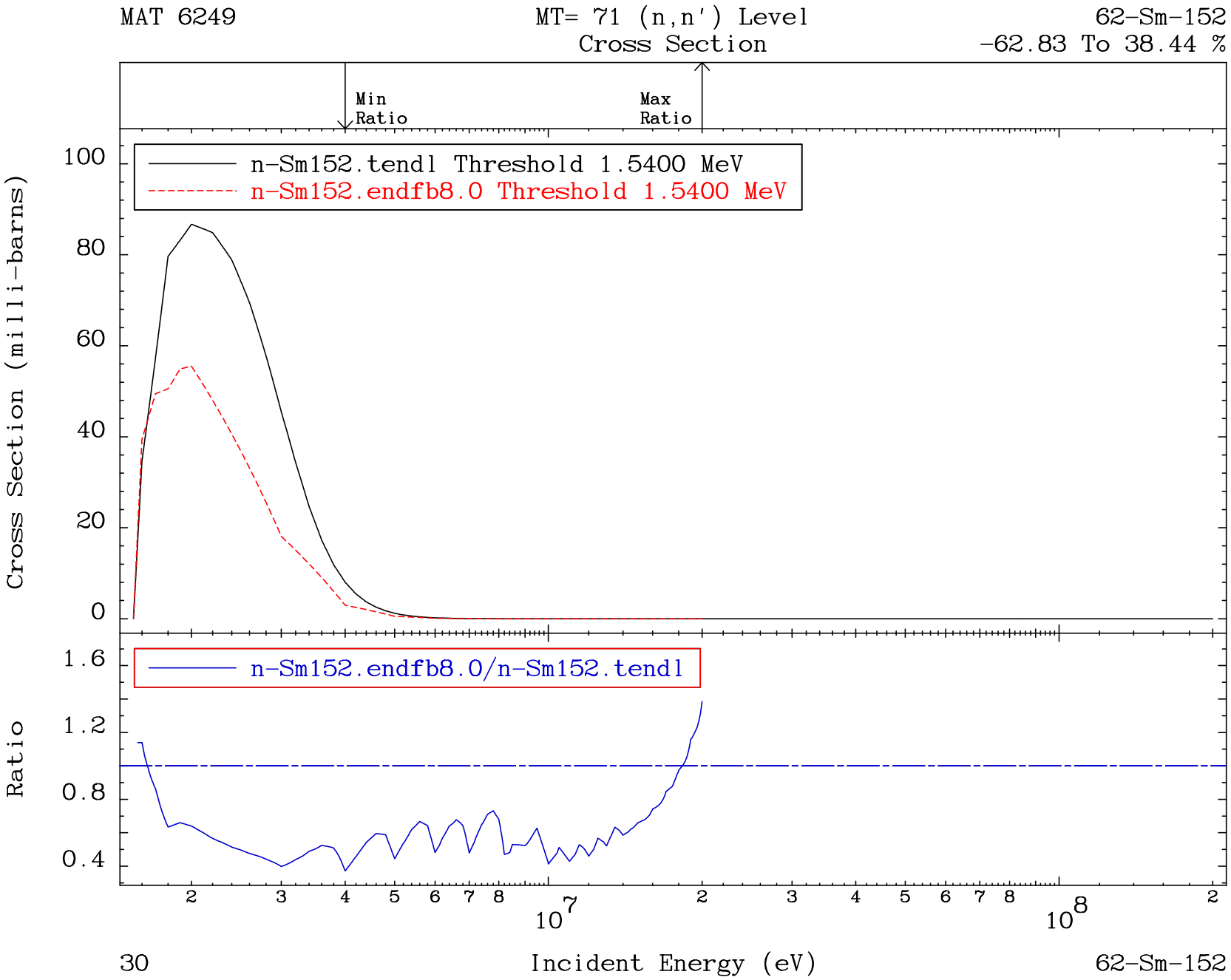

MAT 6249
MT= 66 (n,n') Level
Cross Section
62-Sm-152
-100.0 To -1.952%
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.3013 MeV
n-Sm152.endfb8.0 Threshold 1.3013 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
62-Sm-152

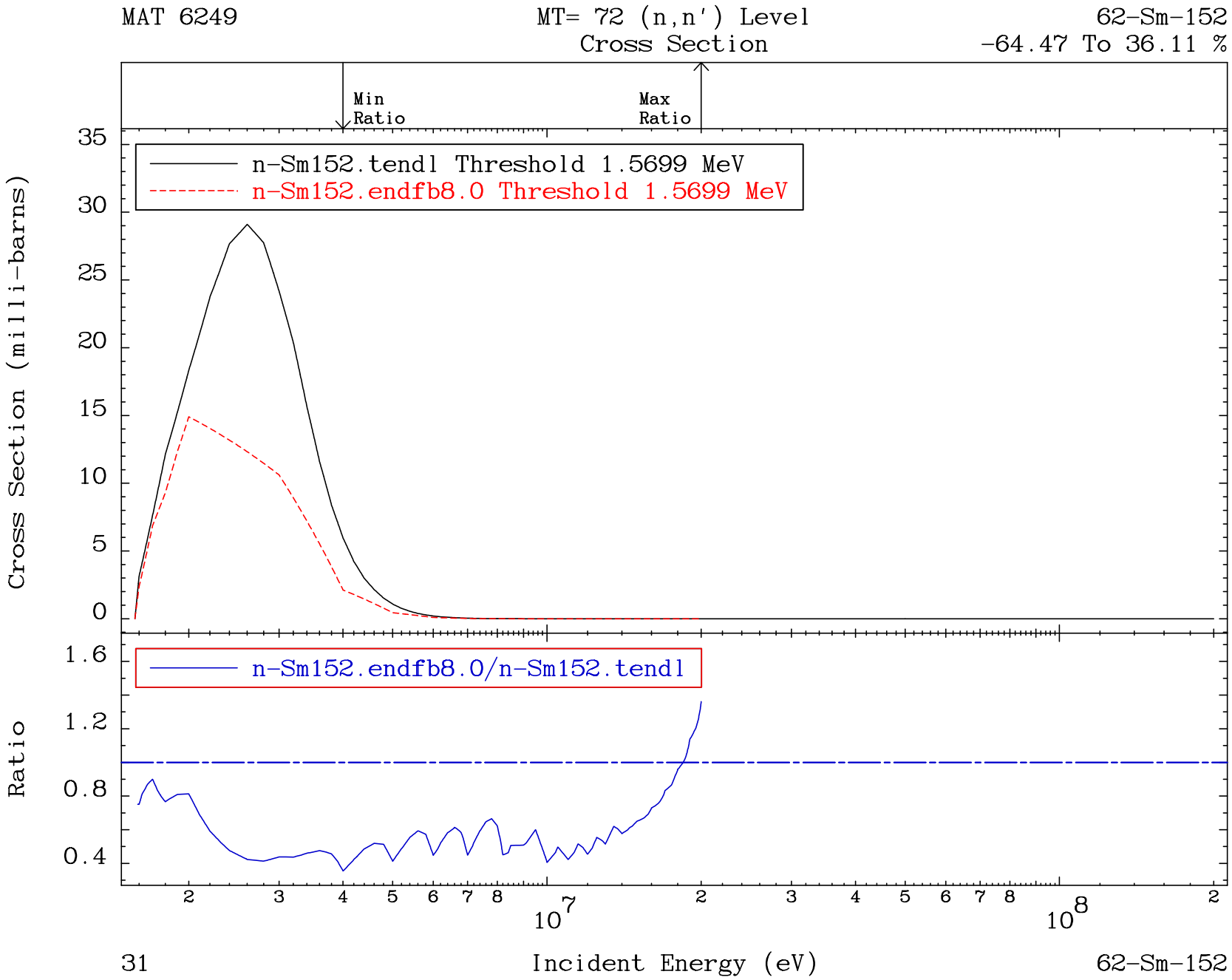

MAT 6249
MT= 67 (n,n') Level
Cross Section
62-Sm-152
-100.0 To 36.04 %
Max
Ratio
Min
Ratio
n-Sm152.tendl Threshold 1.3192 MeV
n-Sm152.endfb8.0 Threshold 1.3192 MeV
Cross Section (milli-barns)
18
16
14
12
10
8
6
4
2
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
26
Incident Energy (eV)
62-Sm-152

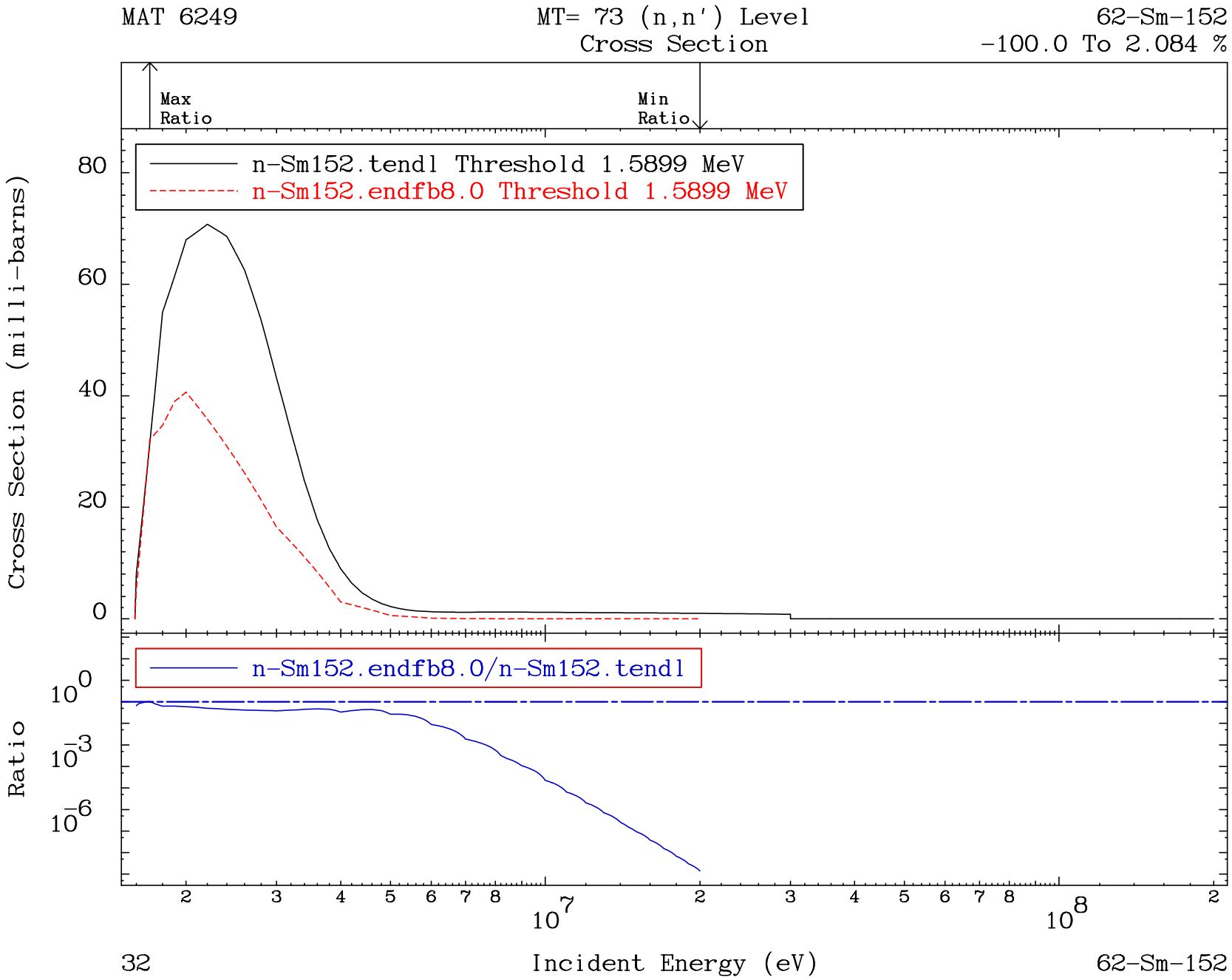

MAT 6249
MT= 68 (n,n') Level
Cross Section
62-Sm-152
-100.0 To -10.24%
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.3809 MeV
n-Sm152.endfb8.0 Threshold 1.3809 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
27
Incident Energy (eV)
62-Sm-152

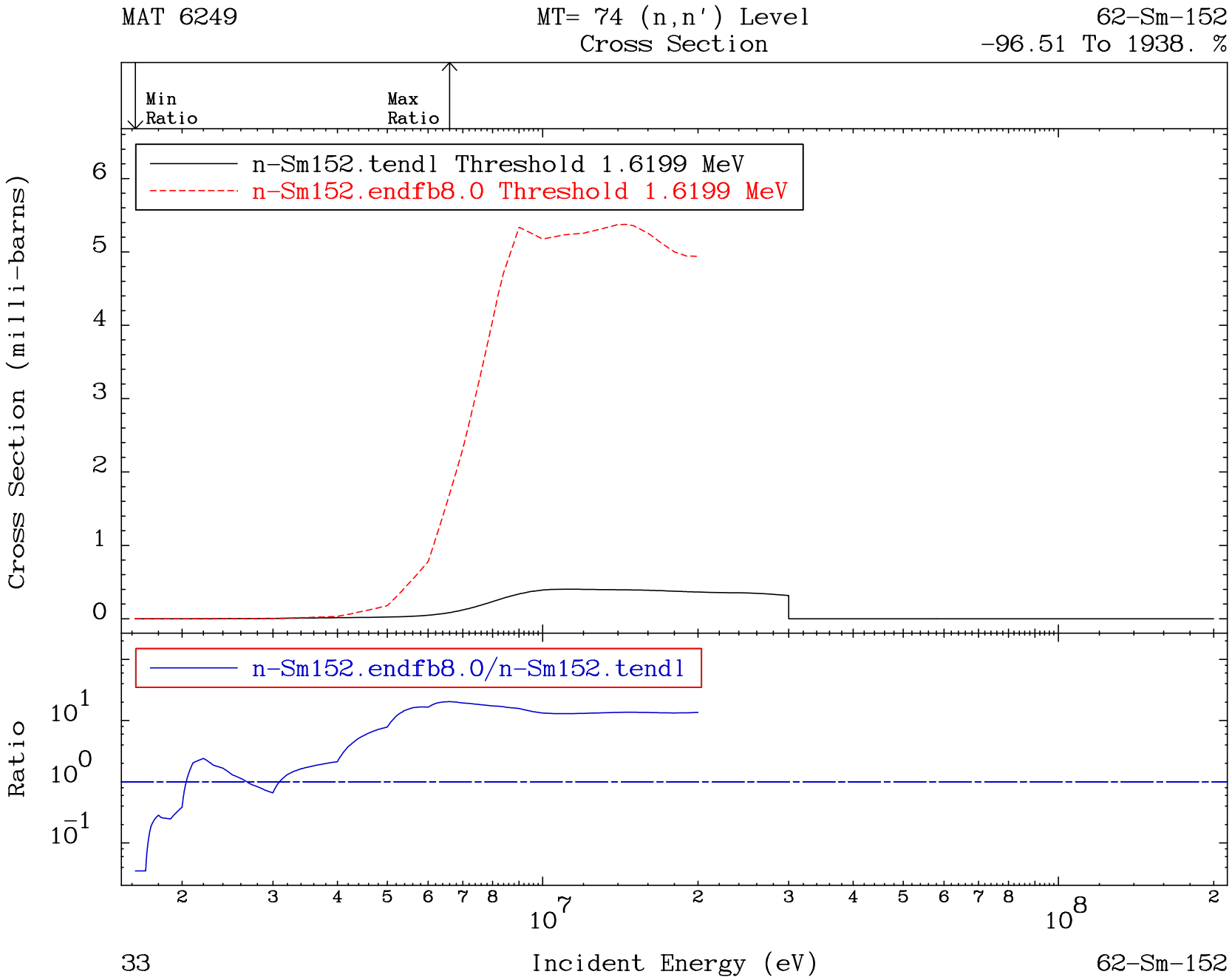

MAT 6249
MT= 69 (n,n') Level
Cross Section
62-Sm-152
-100.0 To -3.984%
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.5156 MeV
n-Sm152.endfb8.0 Threshold 1.5156 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
62-Sm-152

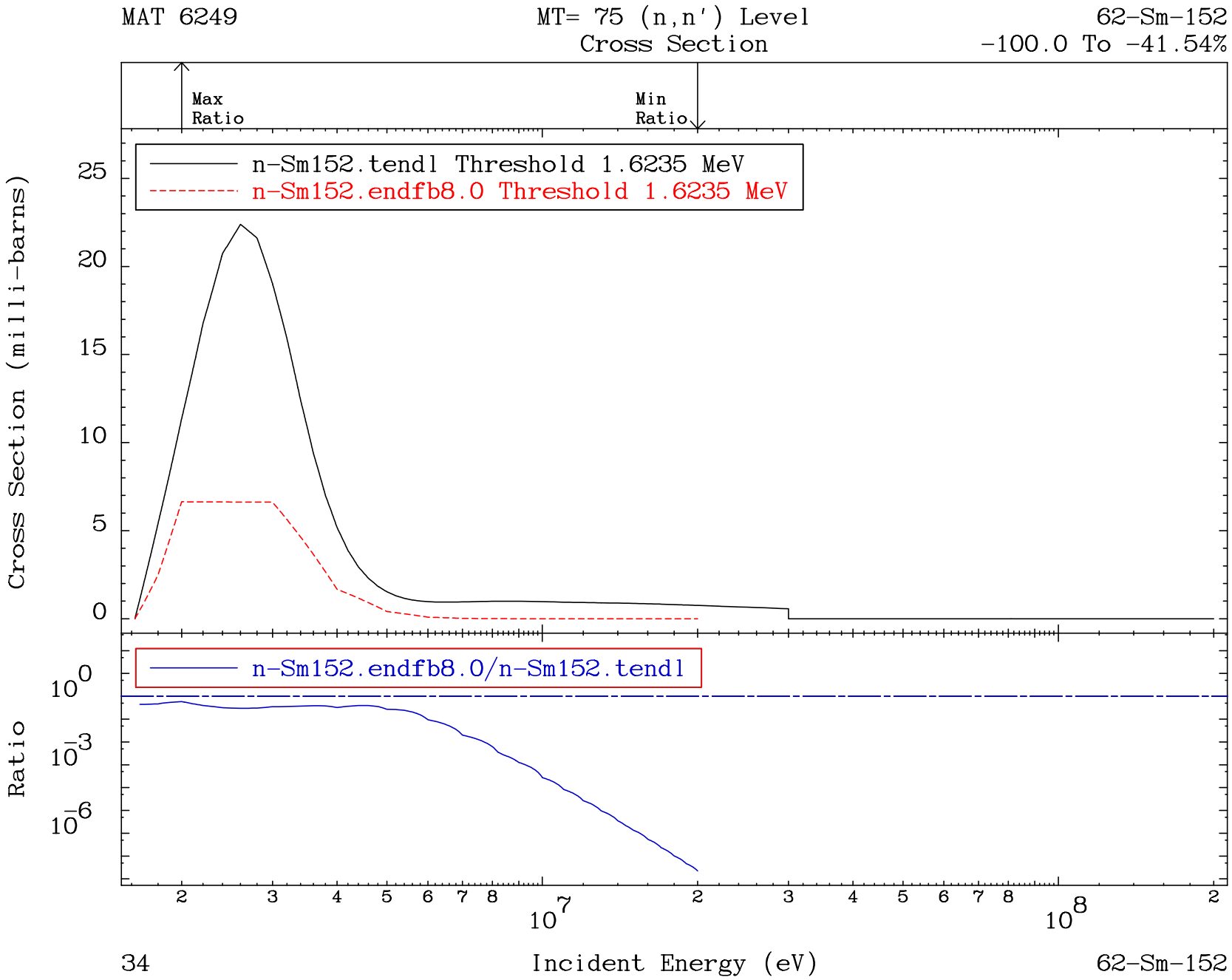

MAT 6249
MT= 70 (n,n') Level
Cross Section
62-Sm-152
-100.0 To 34.41 %
Max
Ratio
Min
Ratio
n-Sm152.tendl Threshold 1.5208 MeV
n-Sm152.endfb8.0 Threshold 1.5208 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
29
Incident Energy (eV)
62-Sm-152

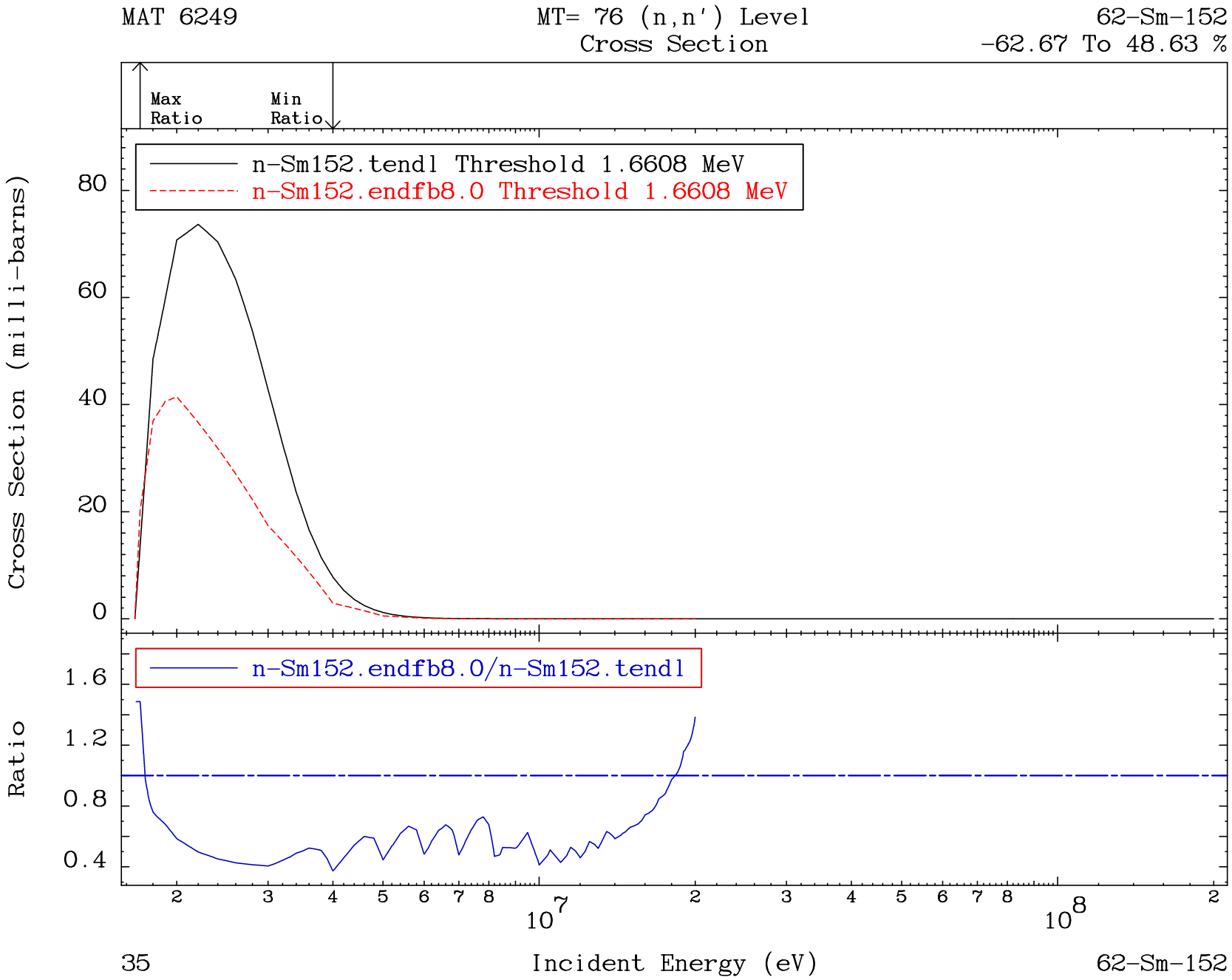

MAT 6249
MT= 71 (n,n') Level
Cross Section
62-Sm-152
-62.83 To 38.44 %
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 1.5400 MeV
n-Sm152.endfb8.0 Threshold 1.5400 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
30
Incident Energy (eV)
62-Sm-152

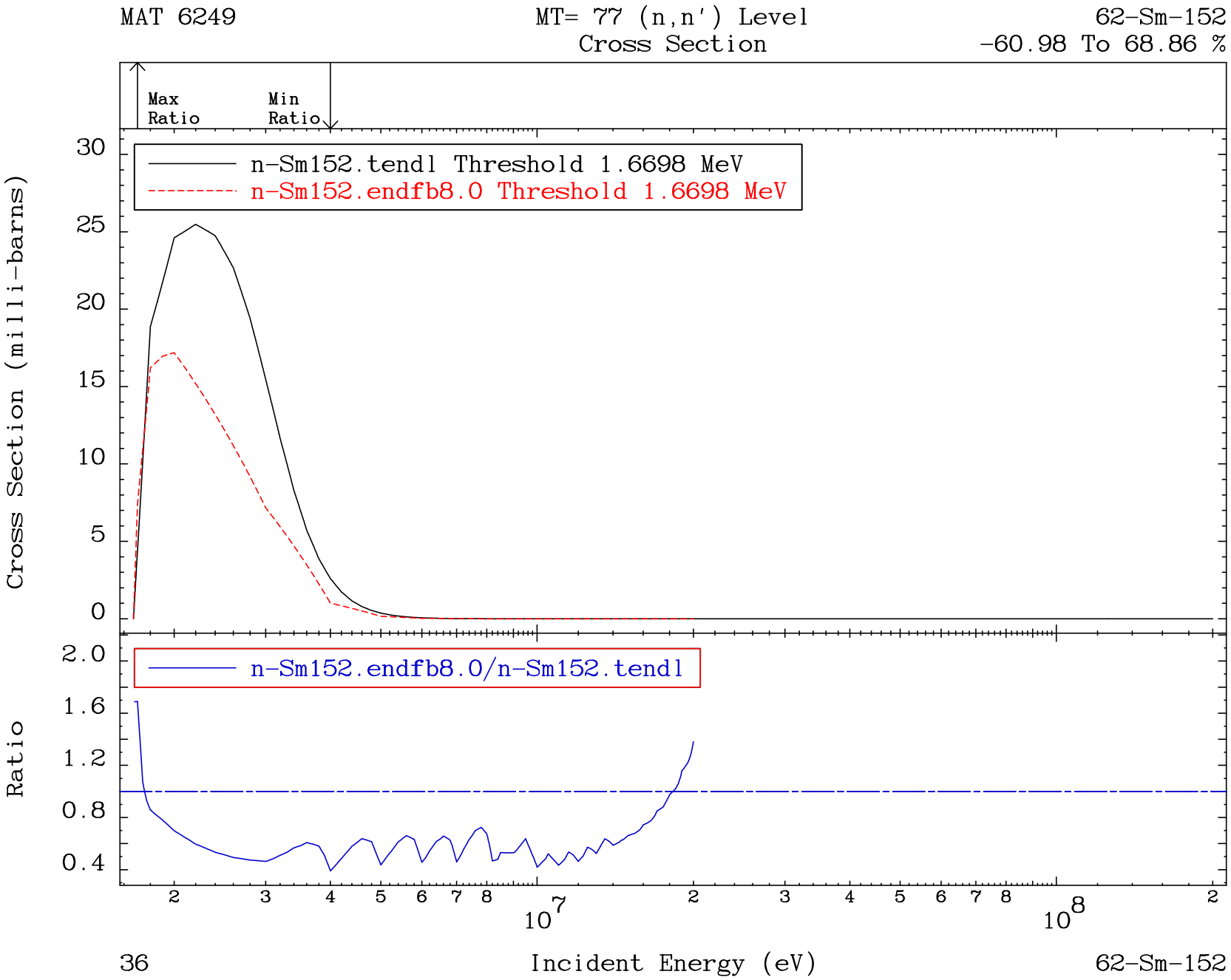

MAT 6249
MT= 72 (n,n') Level
Cross Section
62-Sm-152
-64.47 To 36.11 %
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 1.5699 MeV
n-Sm152.endfb8.0 Threshold 1.5699 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
62-Sm-152

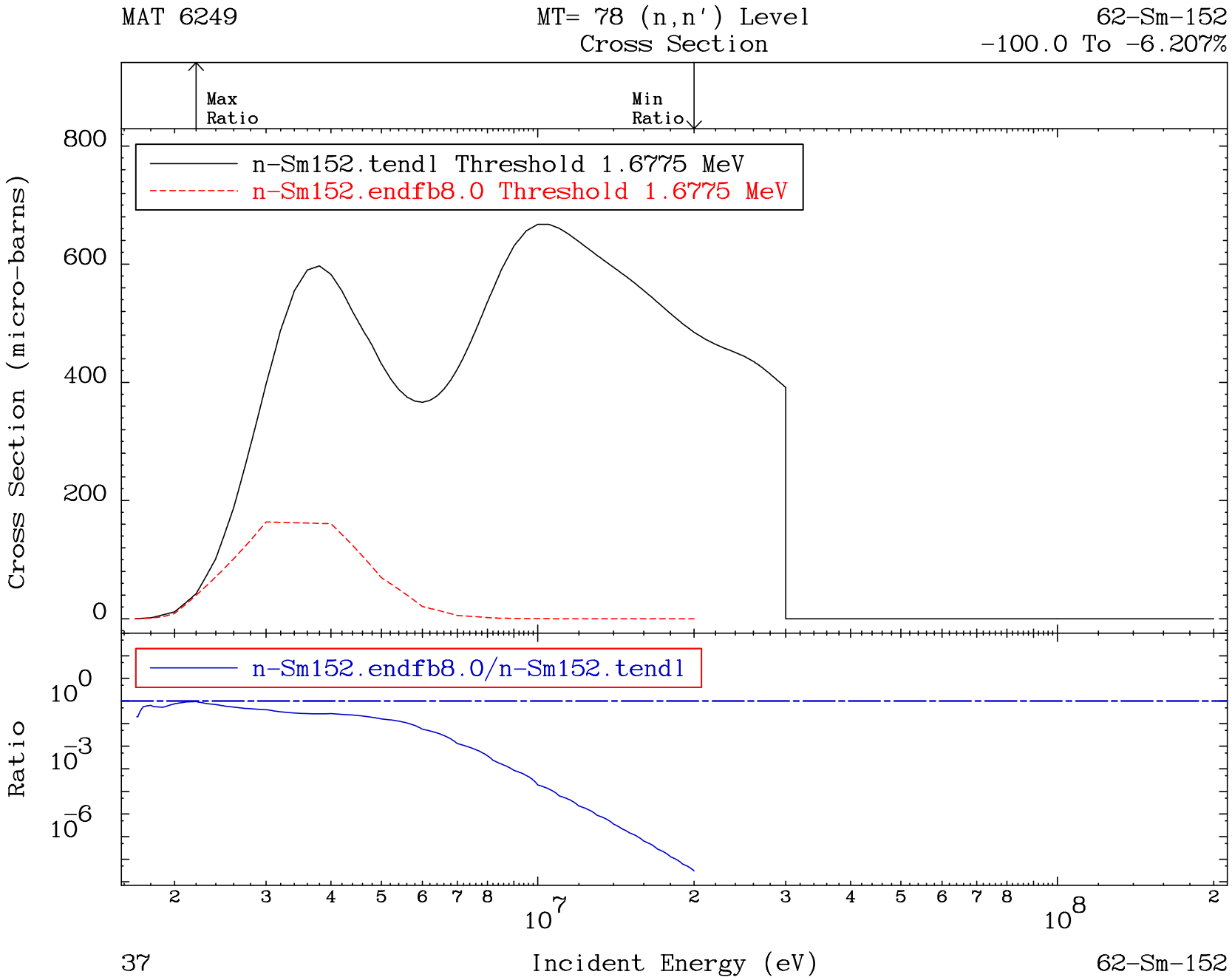

MAT 6249
MT= 73 (n,n') Level
Cross Section
62-Sm-152
-100.0 To 2.084 %
Max
Ratio
Min
Ratio
n-Sm152.tendl Threshold 1.5899 MeV
n-Sm152.endfb8.0 Threshold 1.5899 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
62-Sm-152

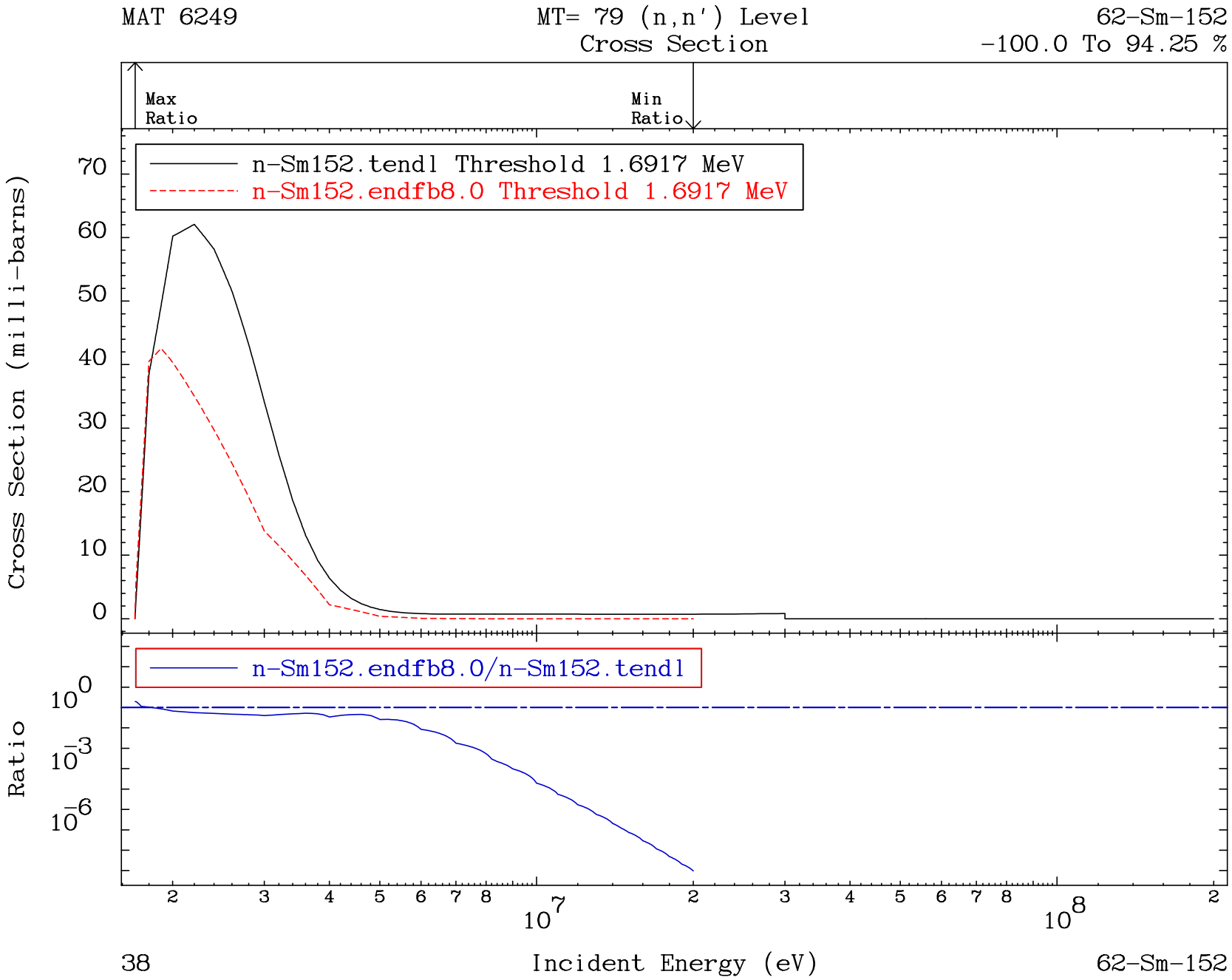

MAT 6249
MT= 74 (n,n') Level
Cross Section
62-Sm-152
-96.51 To 1938. %
Min Ratio
Max Ratio
n-Sm152.tendl Threshold 1.6199 MeV
n-Sm152.endfb8.0 Threshold 1.6199 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^1
10^0
10^-1
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
33
Incident Energy (eV)
62-Sm-152

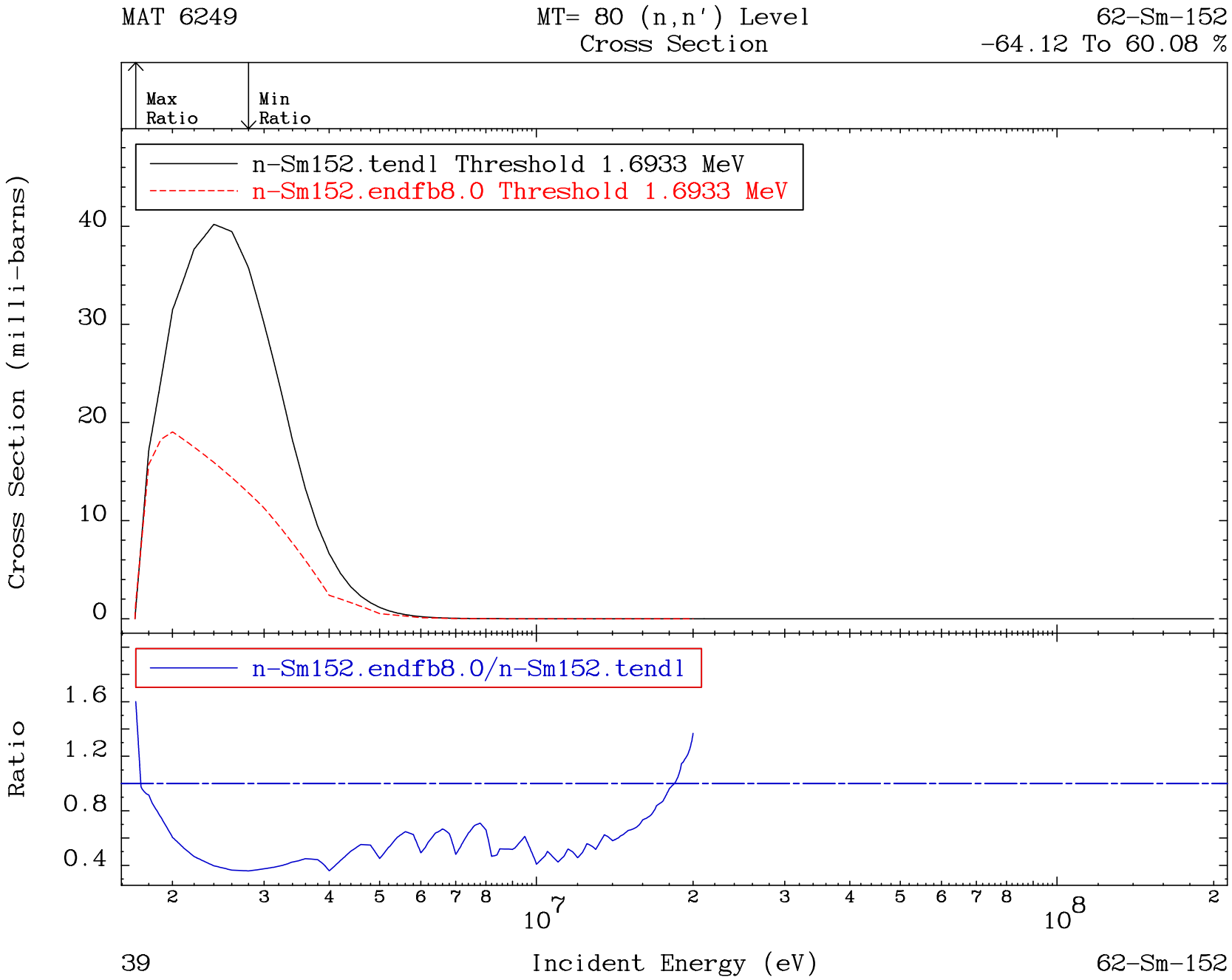

MAT 6249
MT= 75 (n,n') Level
Cross Section
62-Sm-152
-100.0 To -41.54%
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.6235 MeV
n-Sm152.endfb8.0 Threshold 1.6235 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
62-Sm-152

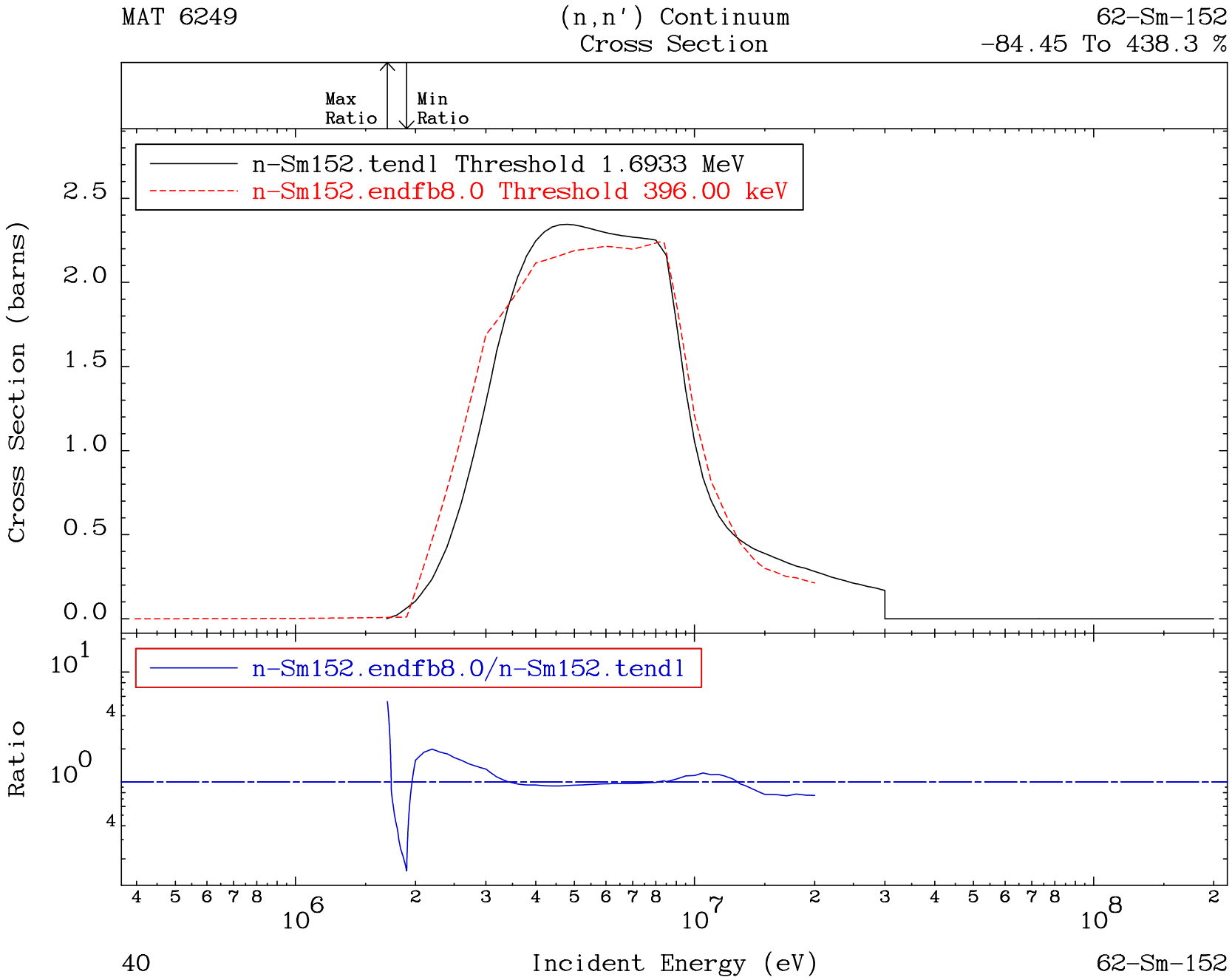

MAT 6249
MT= 76 (n,n') Level
Cross Section
62-Sm-152
-62.67 To 48.63 %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.6608 MeV
n-Sm152.endfb8.0 Threshold 1.6608 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
35
Incident Energy (eV)
62-Sm-152

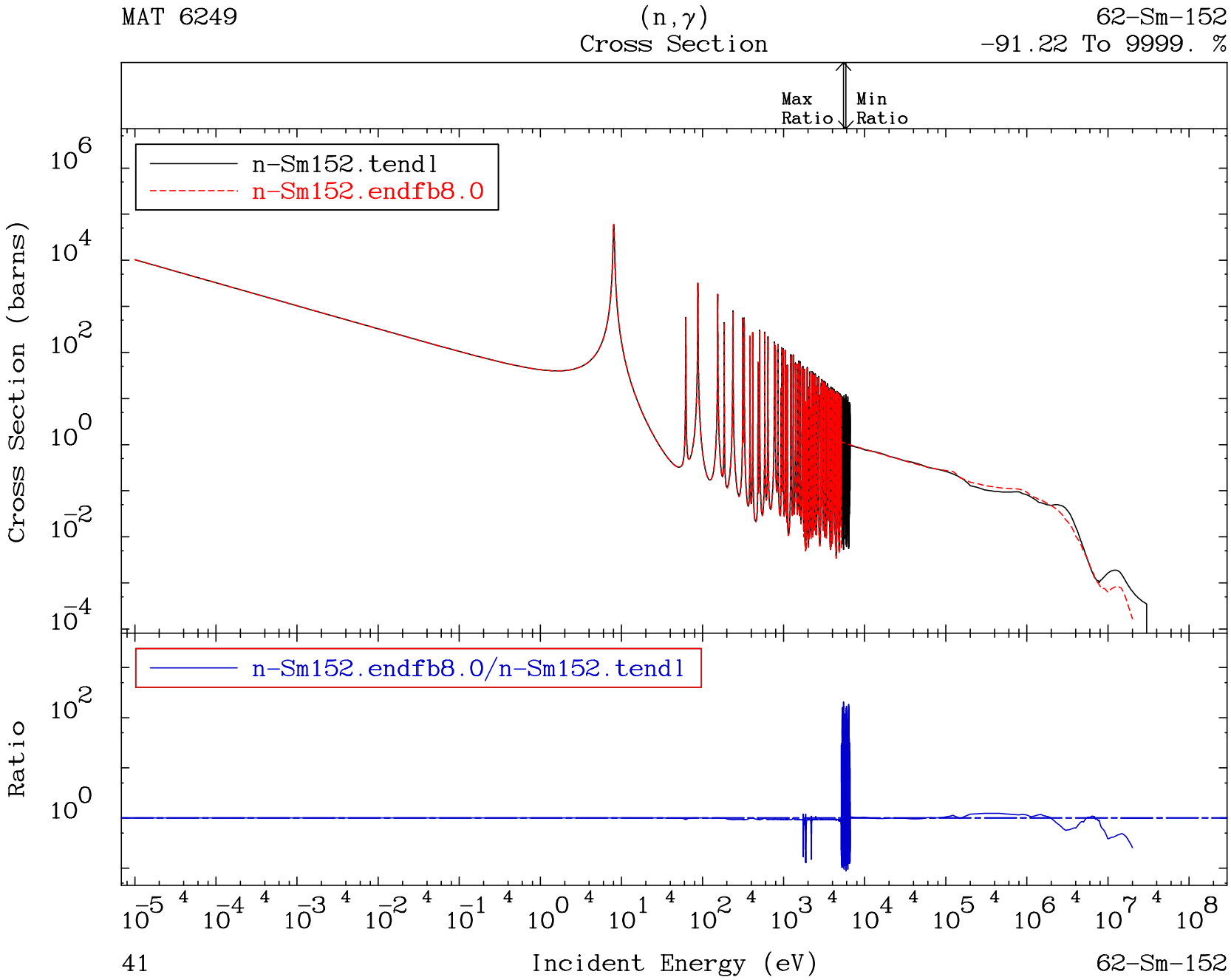

MAT 6249
MT= 77 (n,n') Level
Cross Section
62-Sm-152
-60.98 To 68.86 %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.6698 MeV
n-Sm152.endfb8.0 Threshold 1.6698 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
2.0
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
10^8
36
Incident Energy (eV)
62-Sm-152

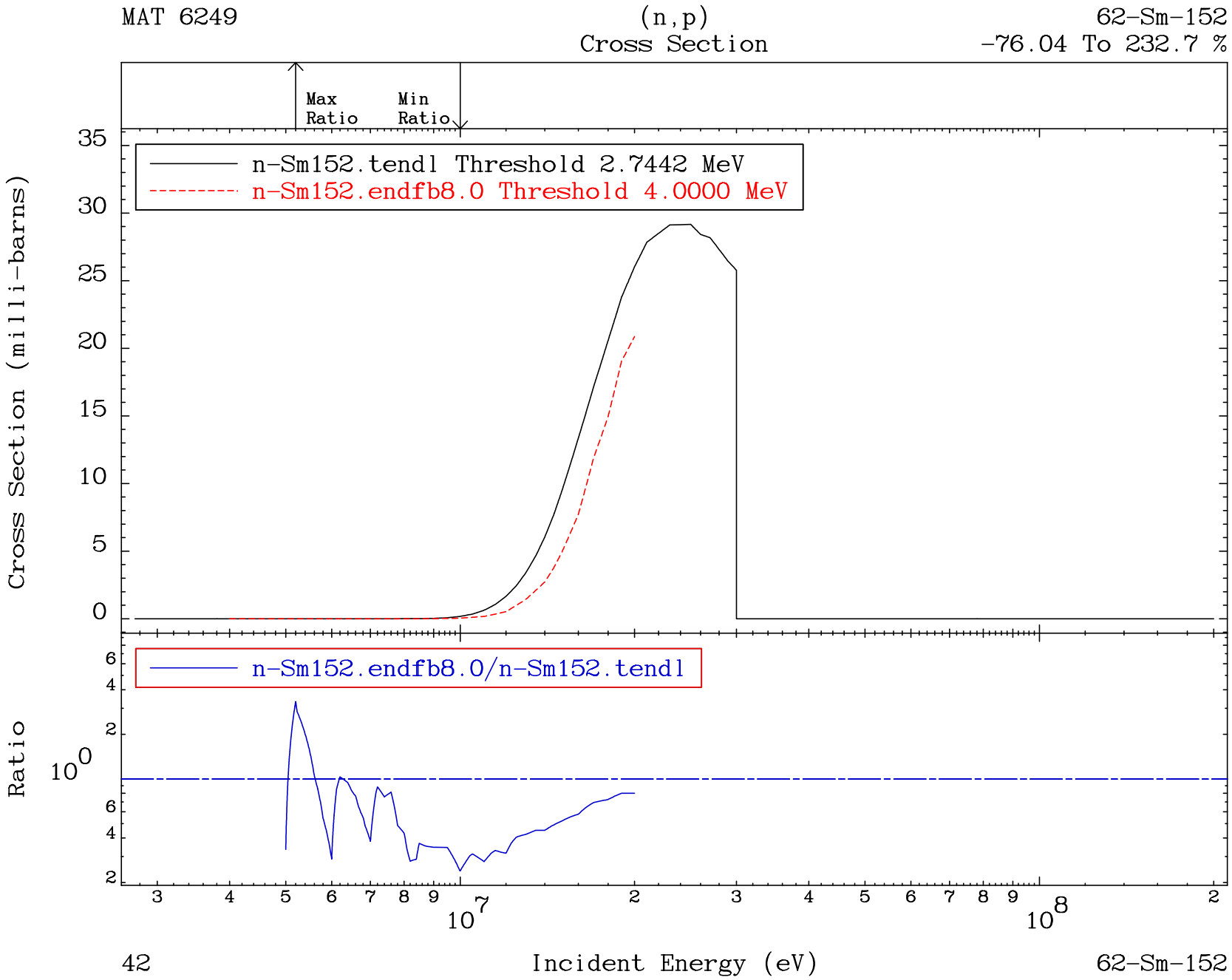

MAT 6249
MT= 78 (n,n') Level
Cross Section
62-Sm-152
-100.0 To -6.207%
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.6775 MeV
n-Sm152.endfb8.0 Threshold 1.6775 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
62-Sm-152

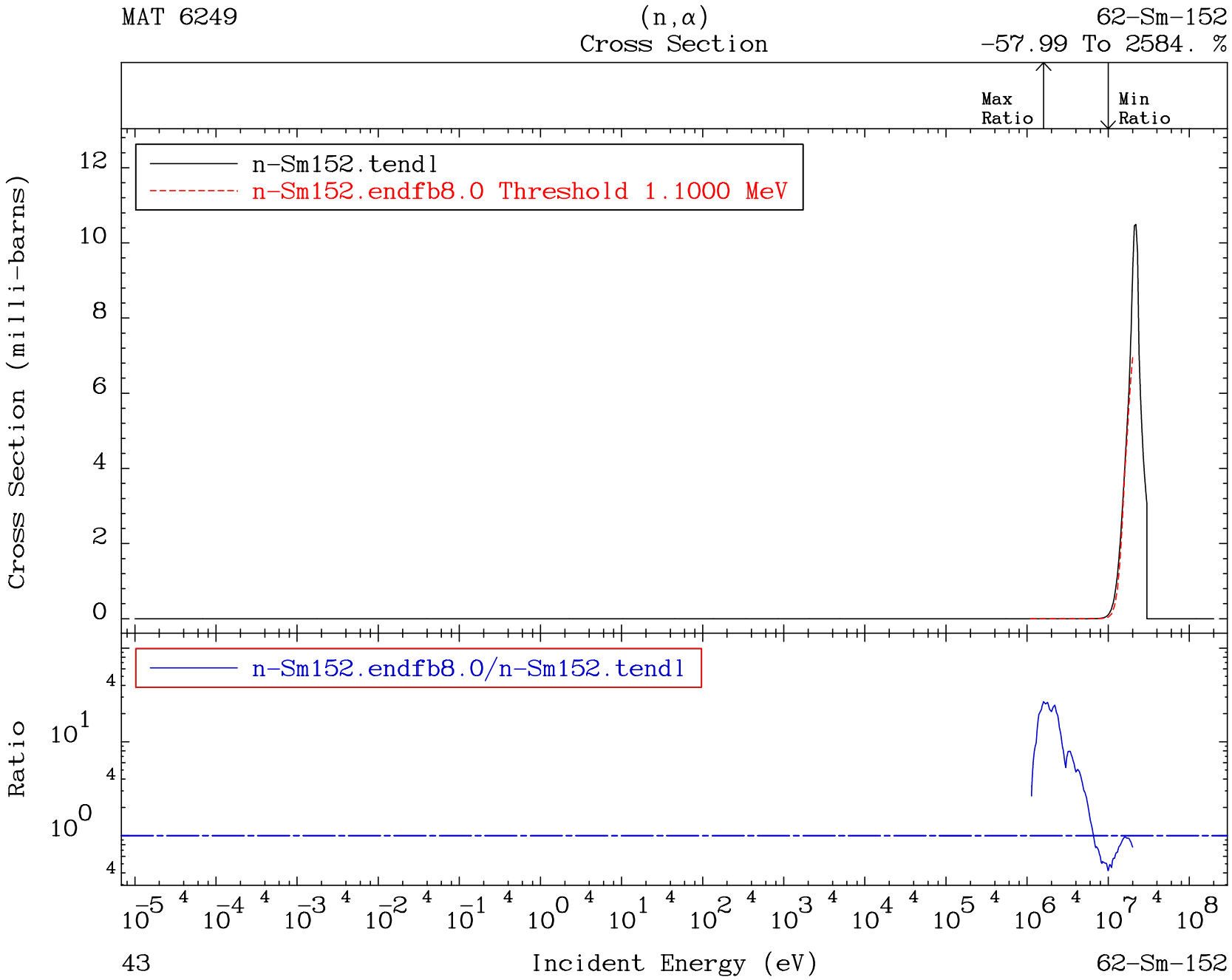

MAT 6249
MT= 79 (n,n') Level
Cross Section
62-Sm-152
-100.0 To 94.25 %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.6917 MeV
n-Sm152.endfb8.0 Threshold 1.6917 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
62-Sm-152

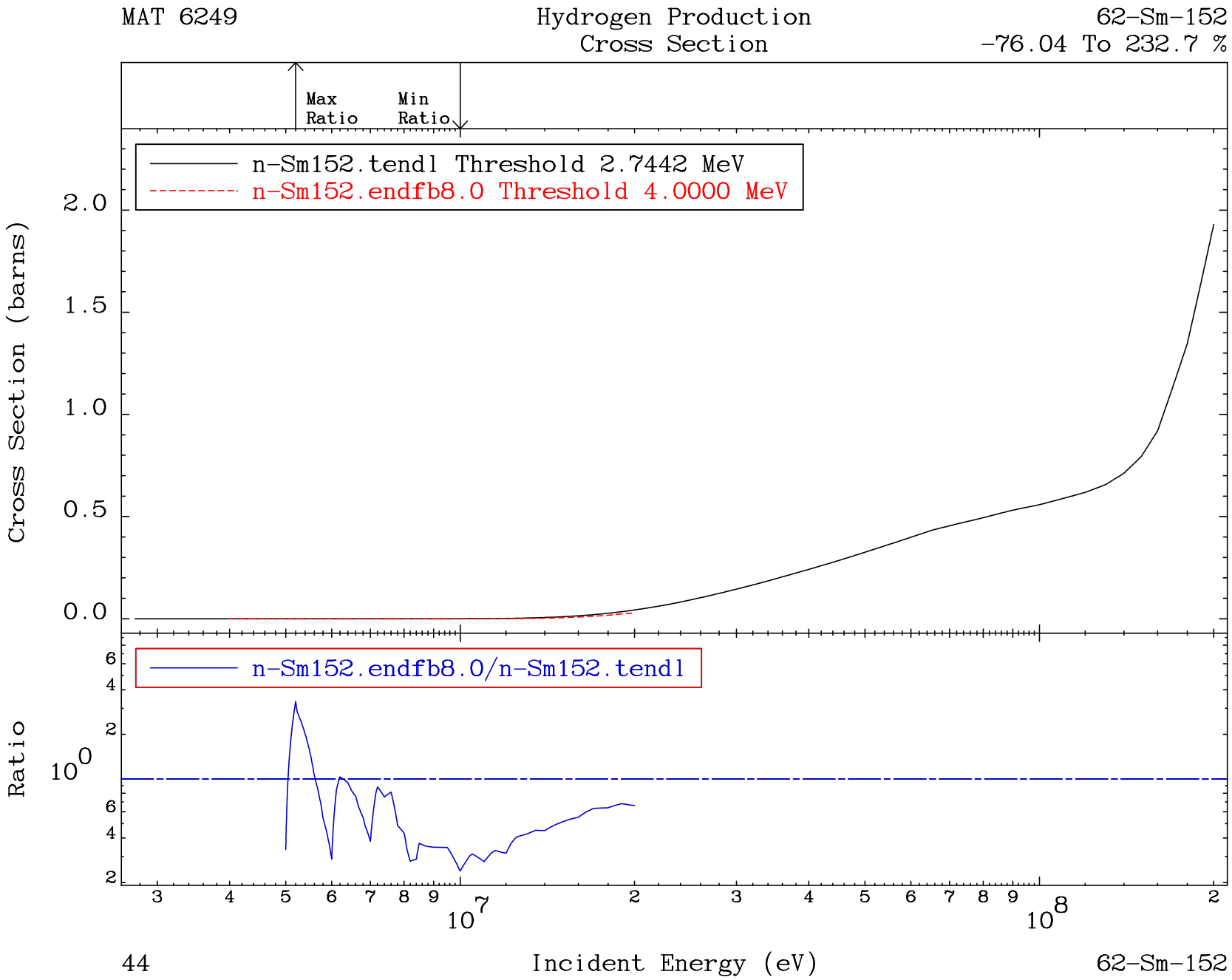

MAT 6249
MT= 80 (n,n') Level
Cross Section
62-Sm-152
-64.12 To 60.08 %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.6933 MeV
n-Sm152.endfb8.0 Threshold 1.6933 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
1.6
1.2
0.8
0.4
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
39
Incident Energy (eV)
62-Sm-152

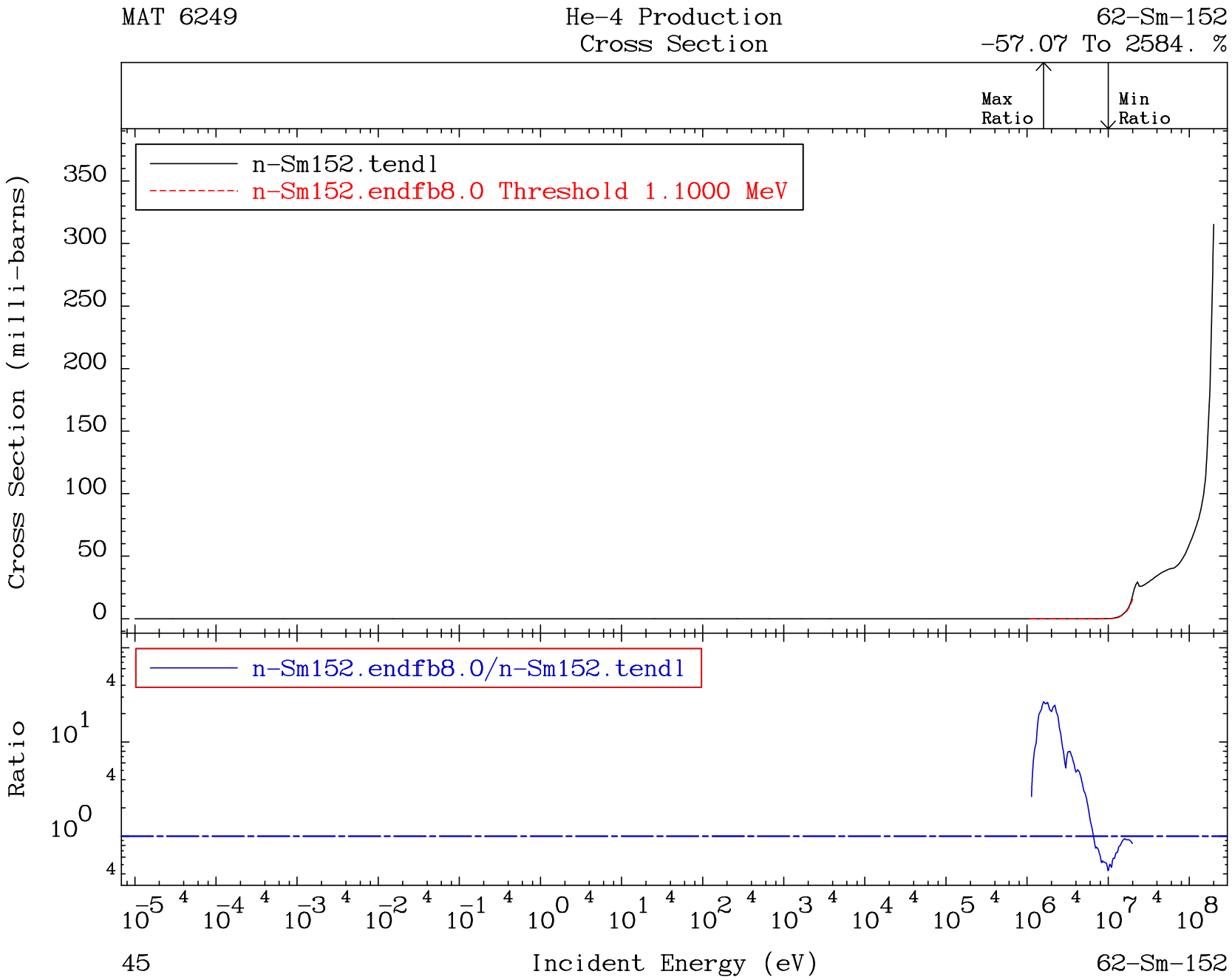

MAT 6249
(n,n') Continuum
Cross Section
62-Sm-152
-84.45 To 438.3 %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 1.6933 MeV
n-Sm152.endfb8.0 Threshold 396.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^1
10^0
4
4
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
62-Sm-152

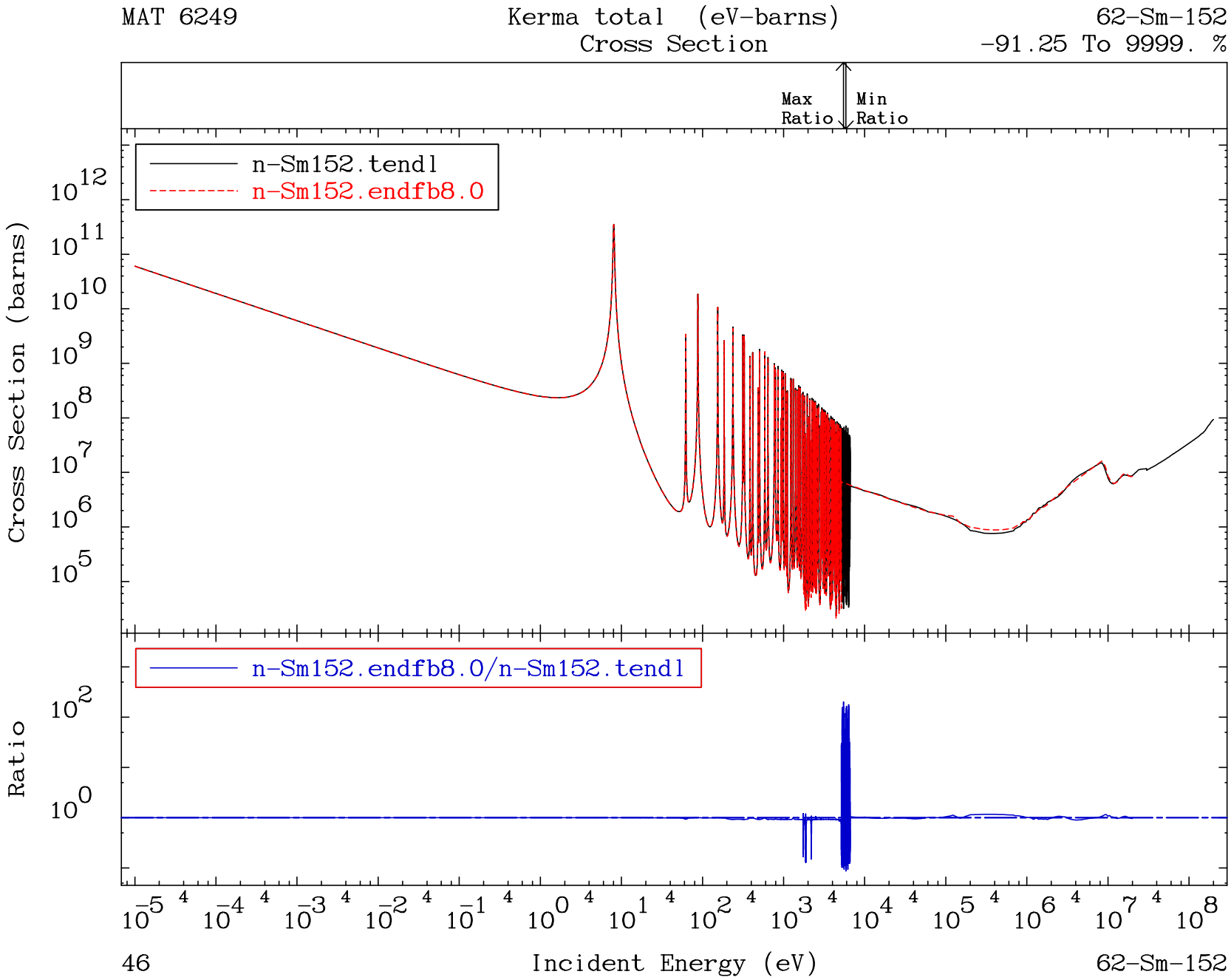

MAT 6249
(n,γ)
Cross Section
62-Sm-152
-91.22 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
Incident Energy (eV)
41
62-Sm-152

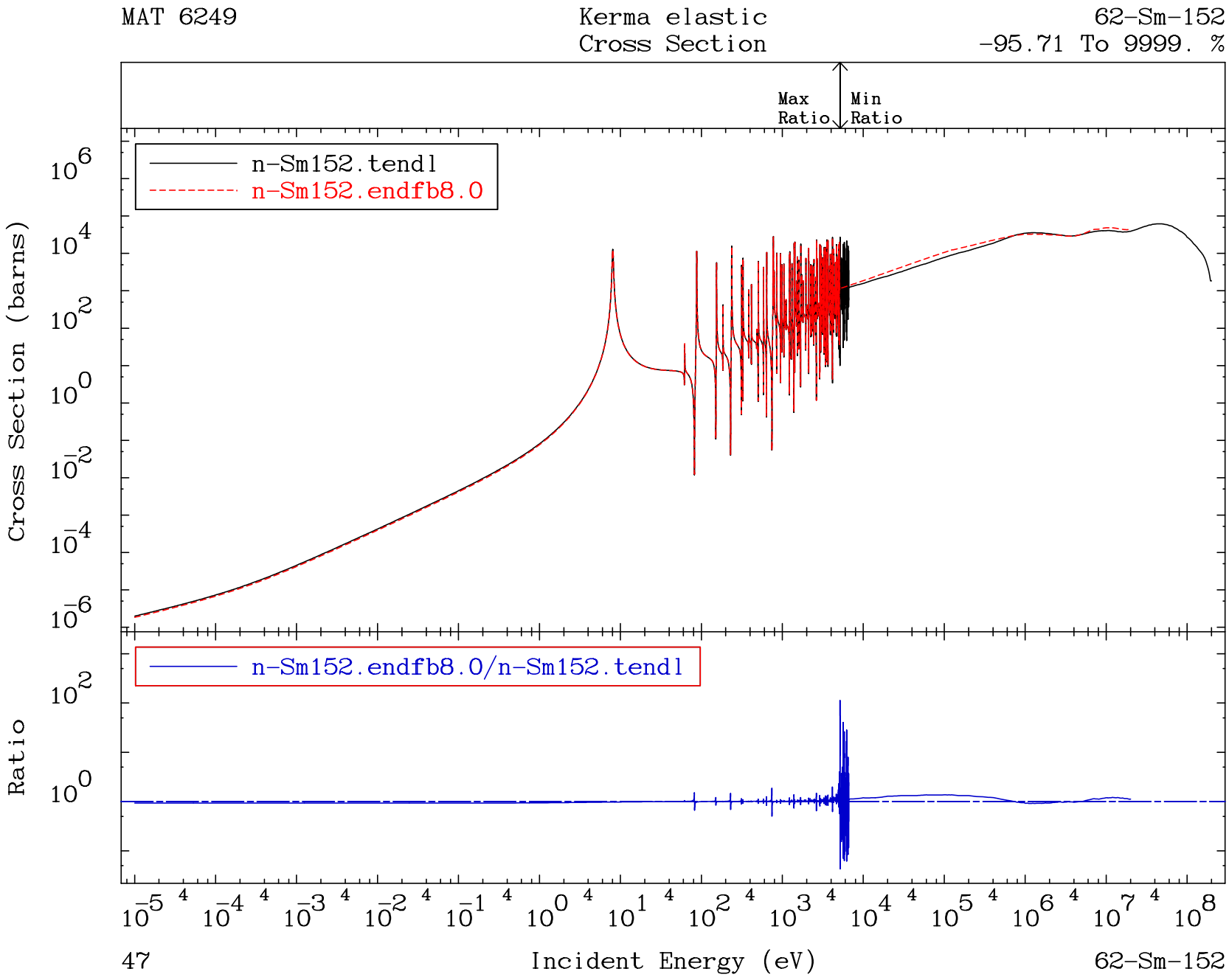

MAT 6249
(n,p)
Cross Section
62-Sm-152
-76.04 To 232.7 %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 2.7442 MeV
n-Sm152.endfb8.0 Threshold 4.0000 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
6
4
2
10^0
6
4
2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
62-Sm-152

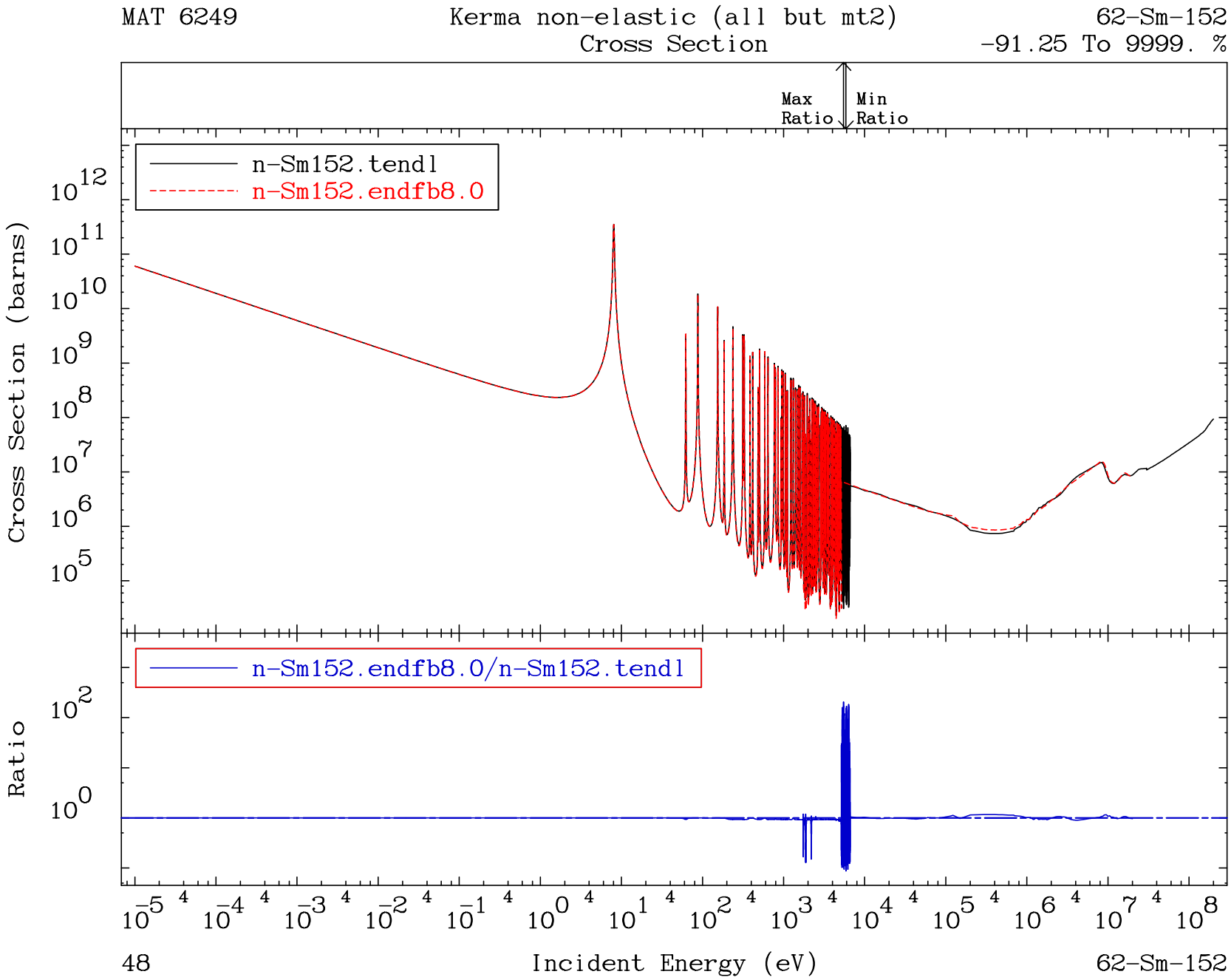

MAT 6249
(n,α)
Cross Section
62-Sm-152
-57.99 To 2584. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0 Threshold 1.1000 MeV
Cross Section (milli-barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
Incident Energy (eV)
43
62-Sm-152

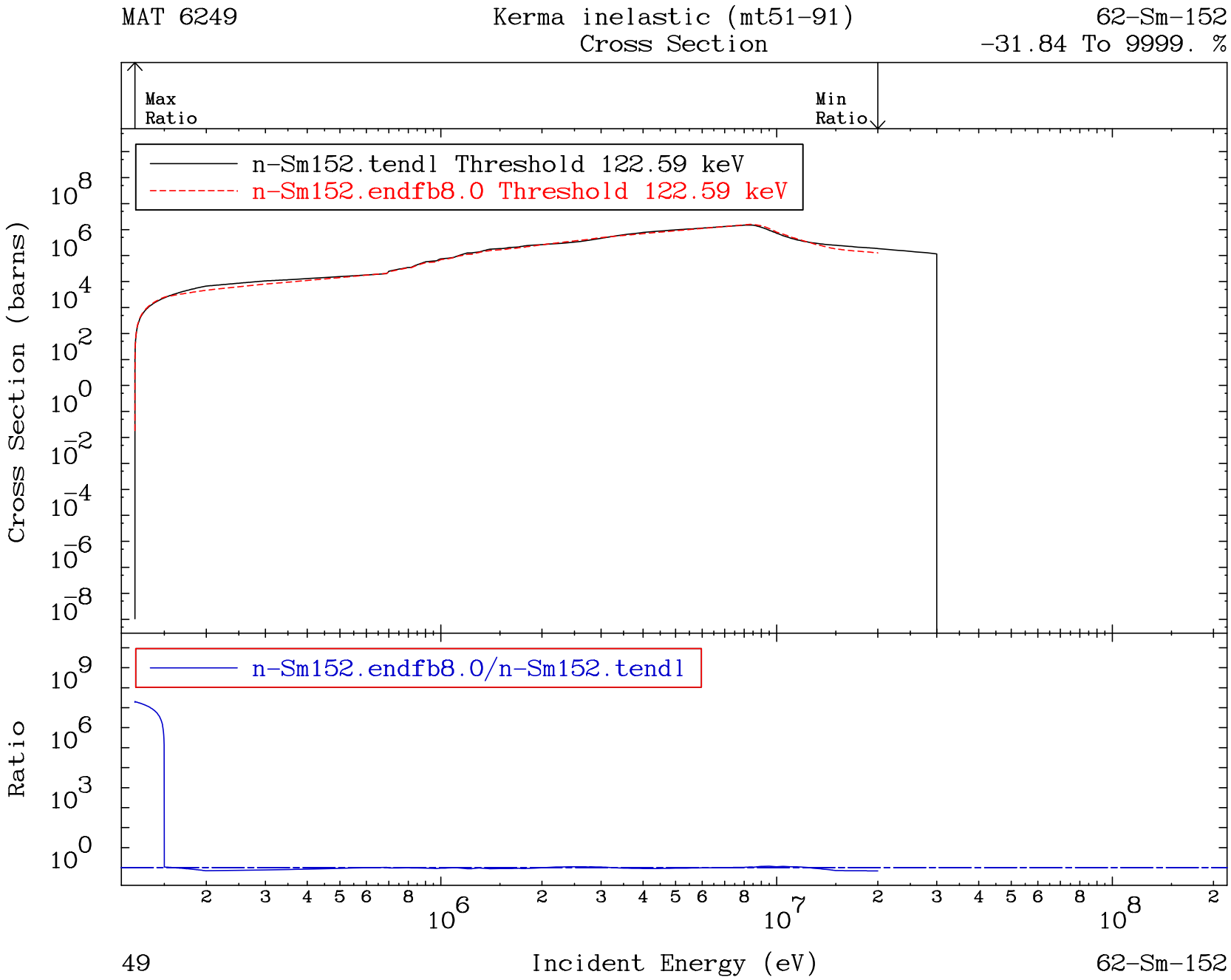

MAT 6249
Hydrogen Production
Cross Section
62-Sm-152
-76.04 To 232.7 %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 2.7442 MeV
n-Sm152.endfb8.0 Threshold 4.0000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^0
6
4
2
6
4
2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
62-Sm-152

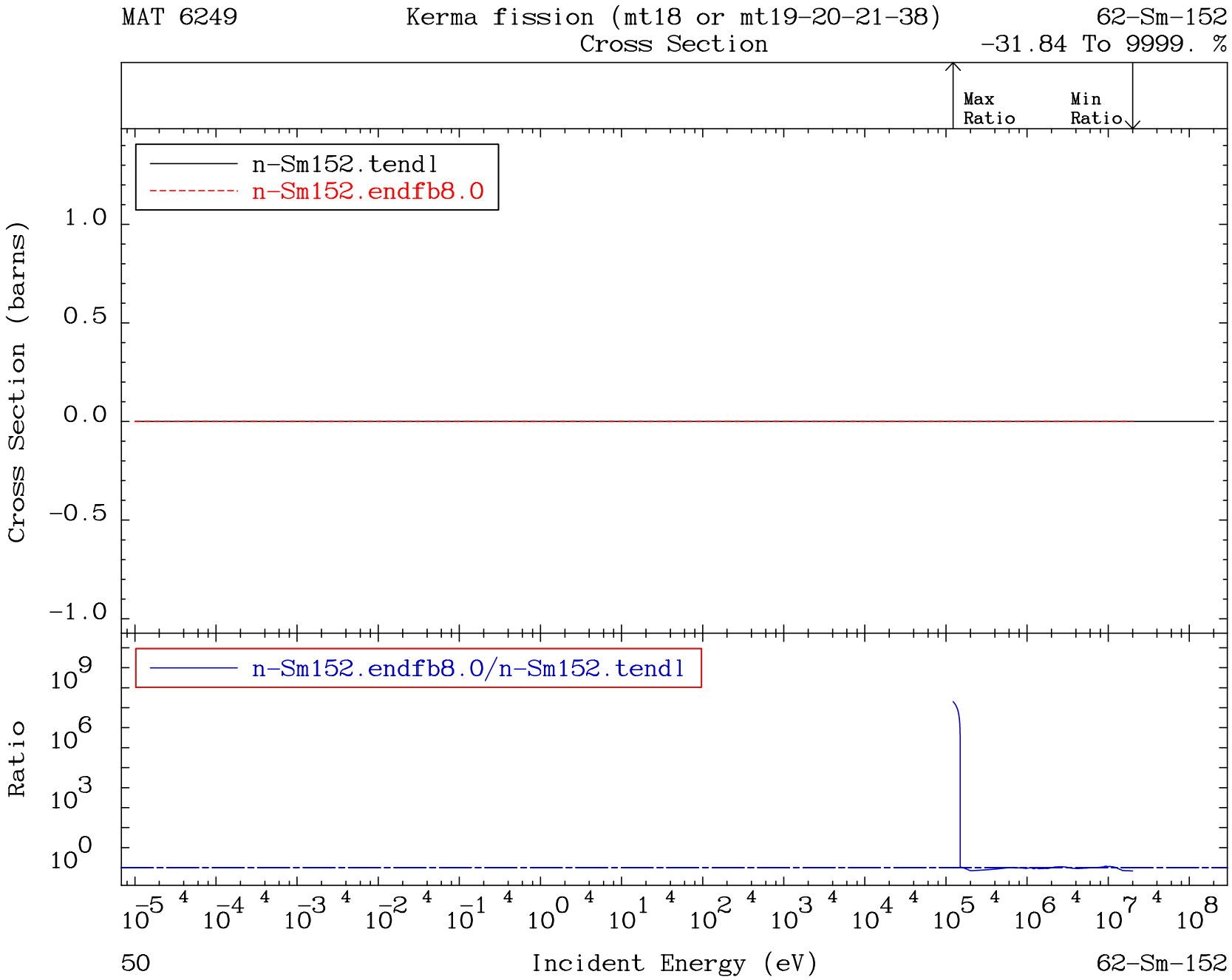

MAT 6249
He-4 Production
Cross Section
62-Sm-152
-57.07 To 2584. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0 Threshold 1.1000 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^1
10^0
4
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
45
Incident Energy (eV)
62-Sm-152

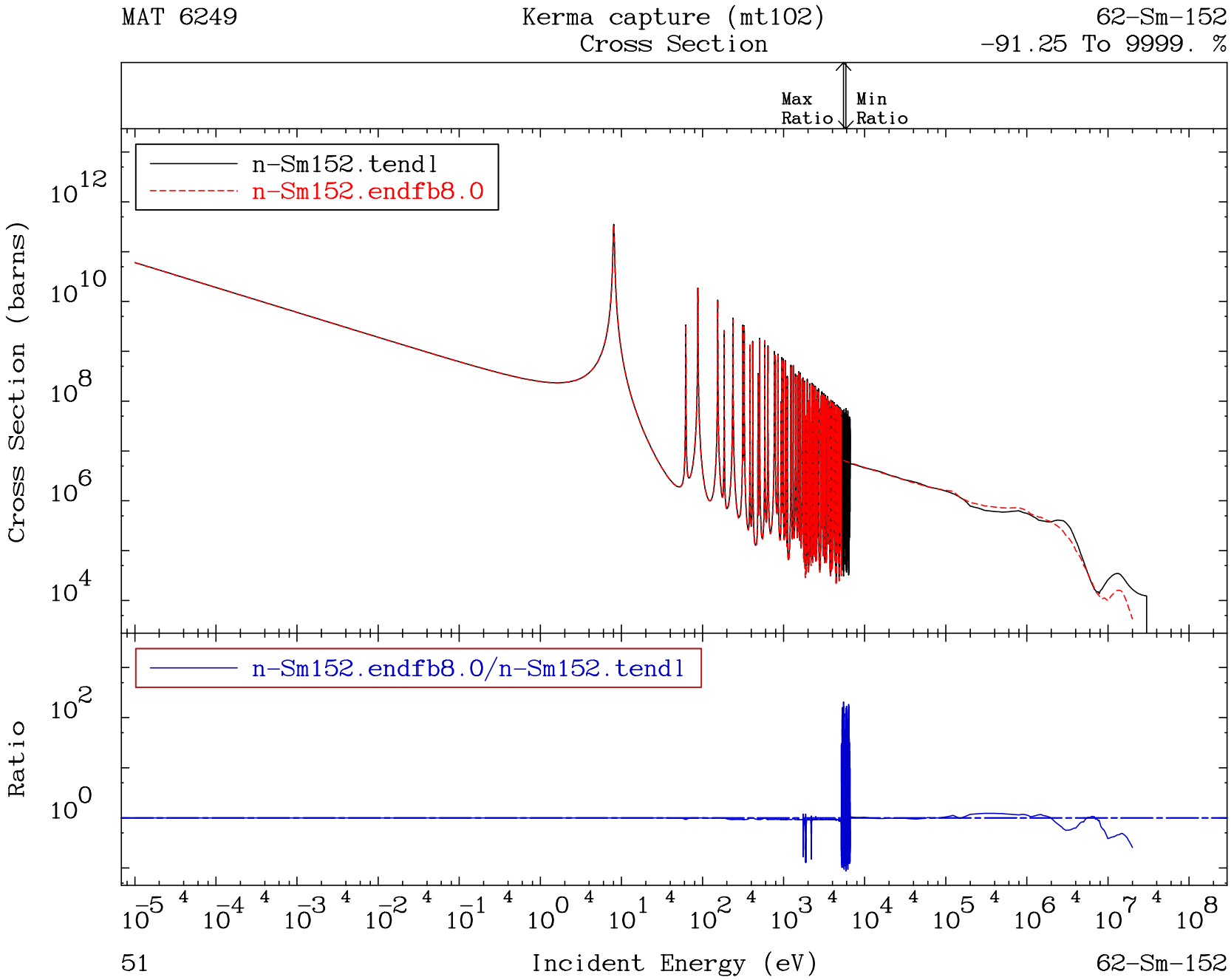

MAT 6249
Kerma total (eV-barns)
Cross Section
62-Sm-152
-91.25 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
Incident Energy (eV)
46
62-Sm-152

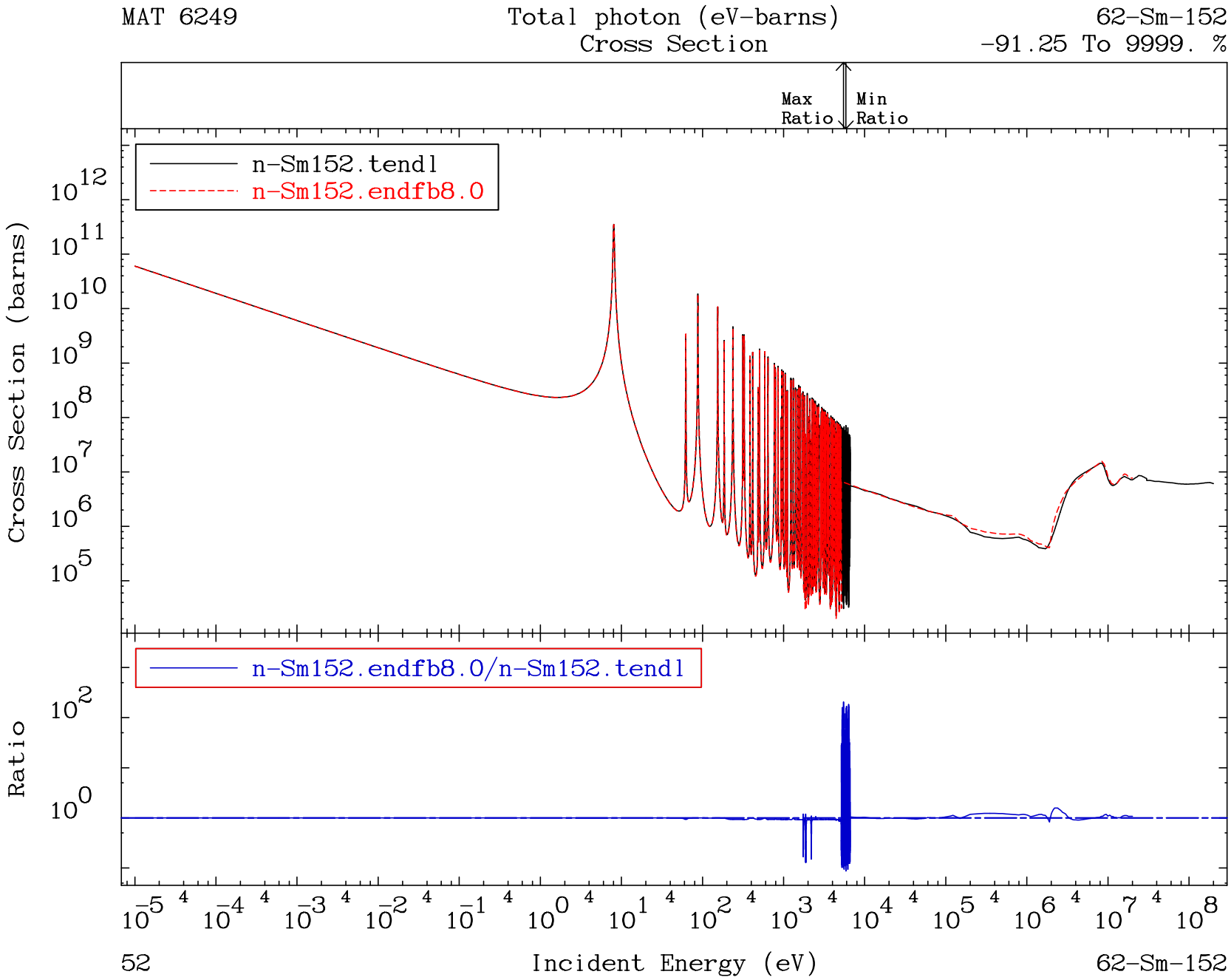

MAT 6249
Kerma elastic
Cross Section
62-Sm-152
-95.71 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
Incident Energy (eV)
47
62-Sm-152

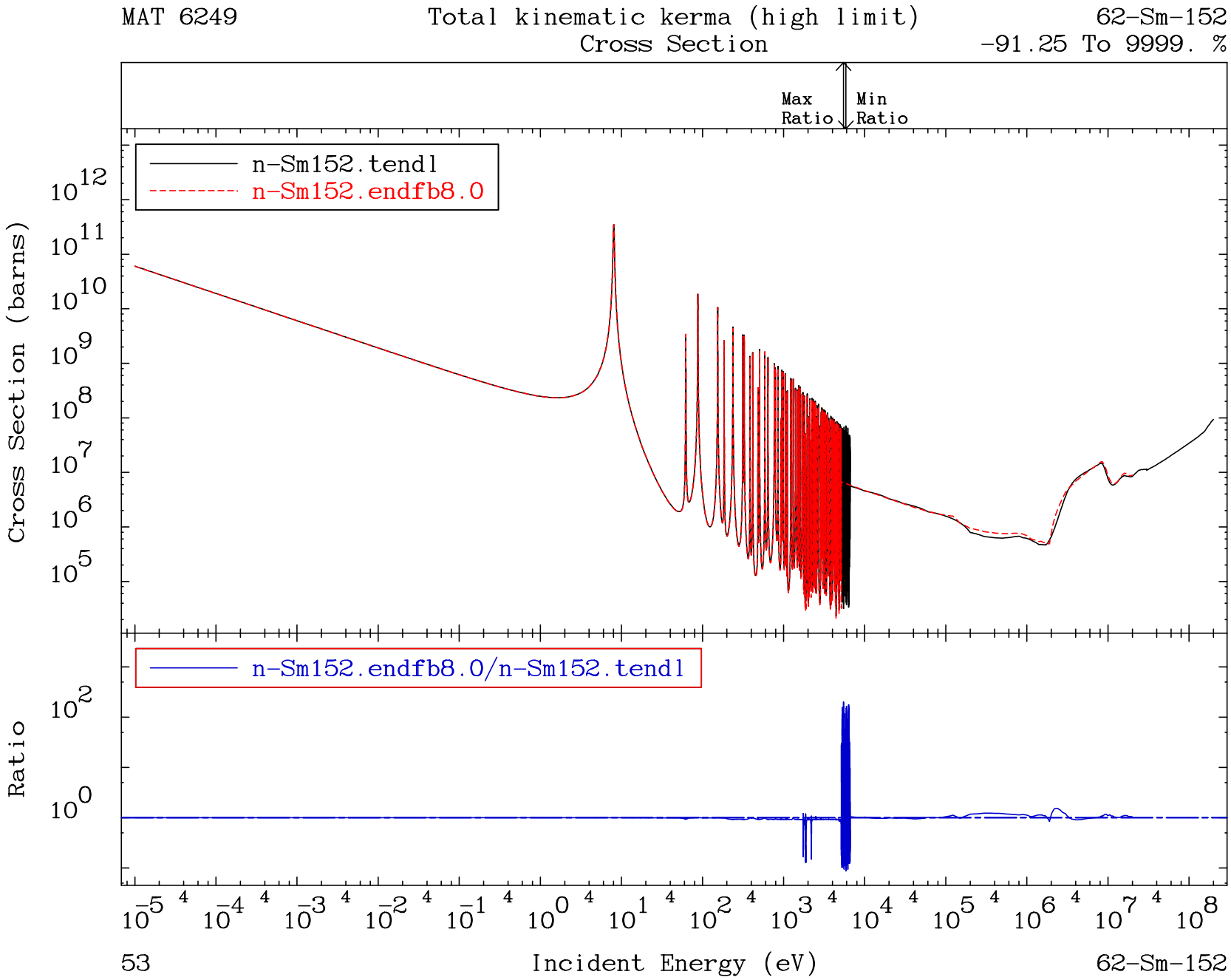

MAT 6249
Kerma non-elastic (all but mt2)
Cross Section
62-Sm-152
-91.25 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
Incident Energy (eV)
48
62-Sm-152

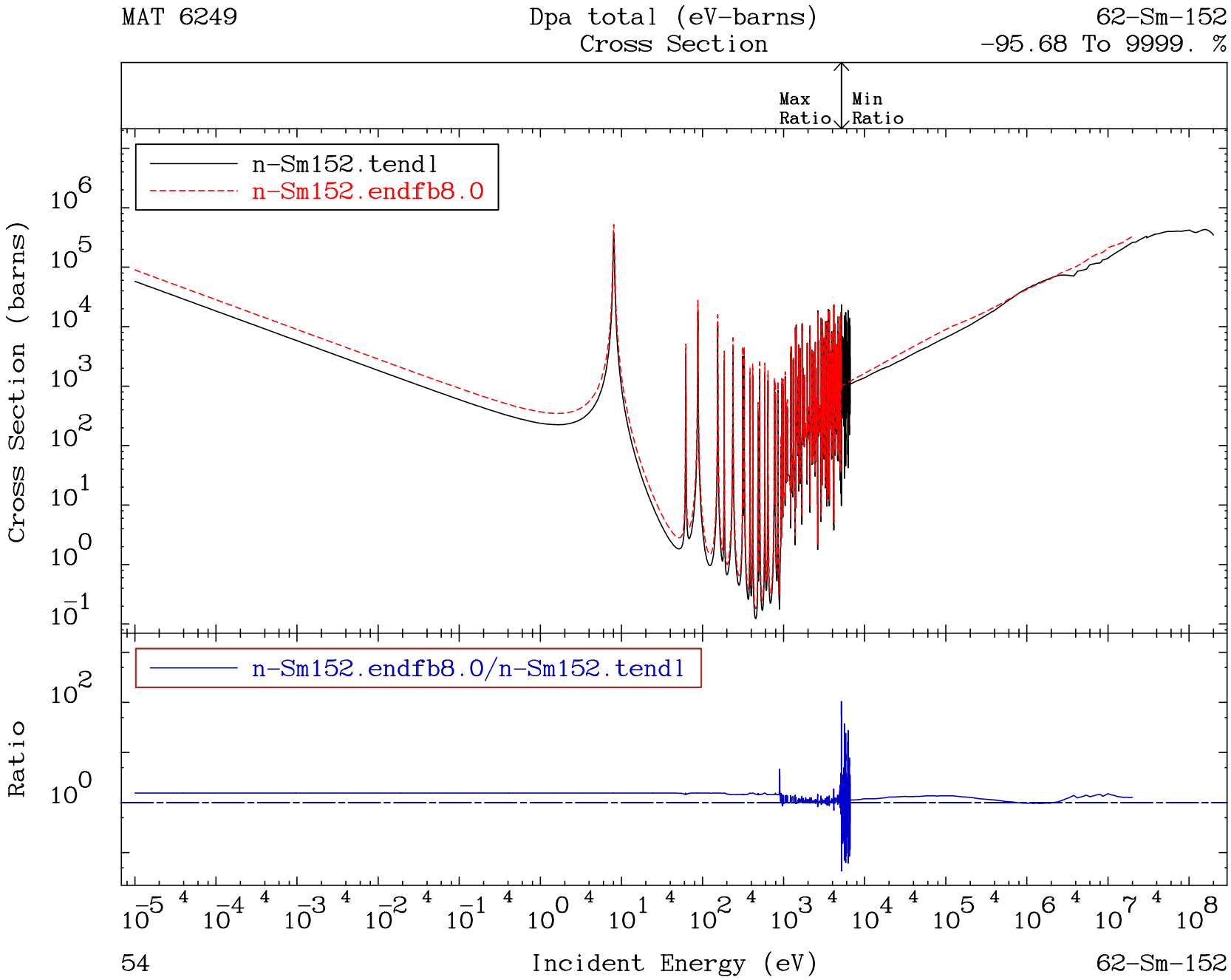

MAT 6249
Kerma inelastic (mt51-91)
Cross Section
62-Sm-152
-31.84 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 122.59 keV
n-Sm152.endfb8.0 Threshold 122.59 keV
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
Incident Energy (eV)
49
62-Sm-152

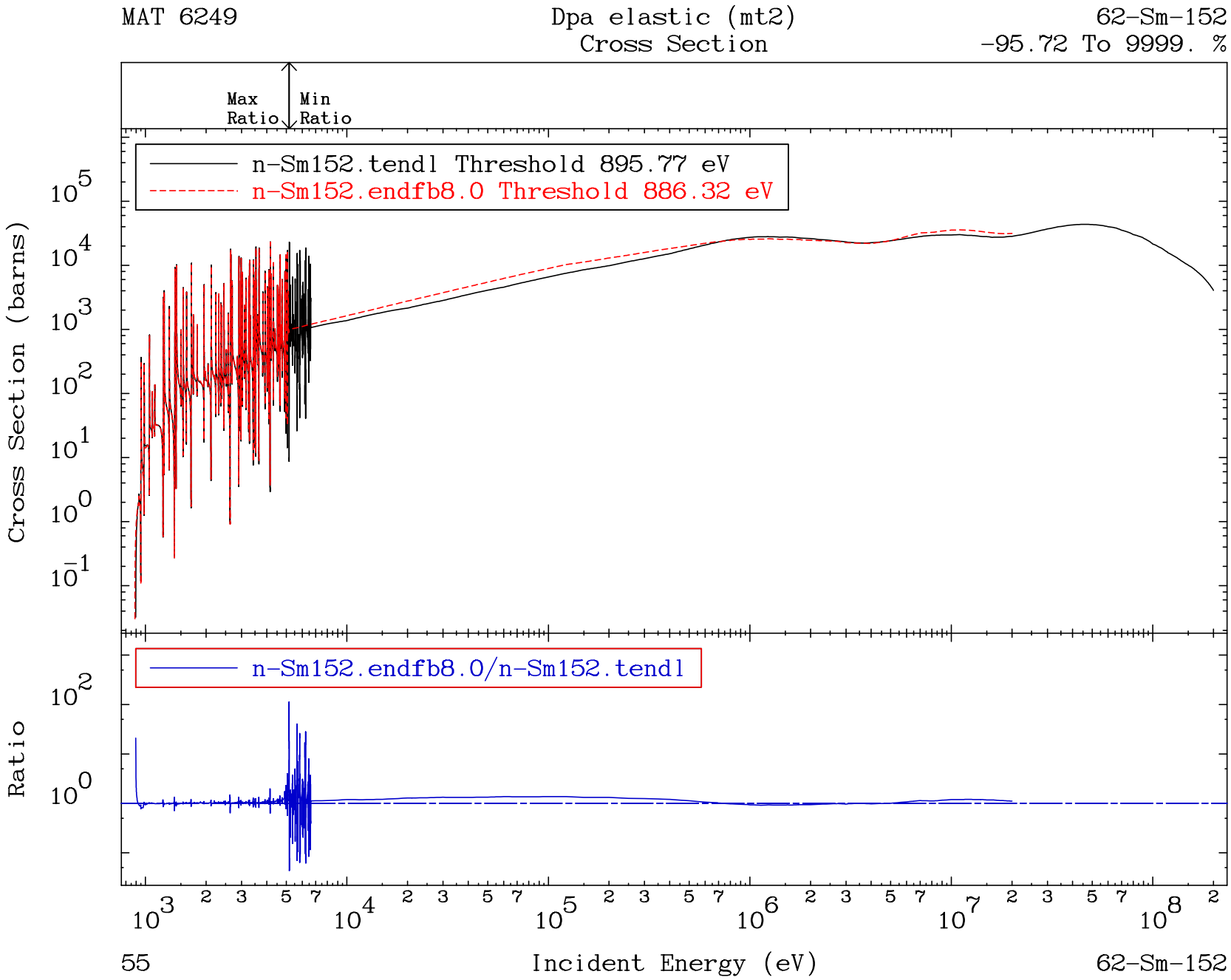

MAT 6249
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
62-Sm-152
-31.84 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^9
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
50
Incident Energy (eV)
62-Sm-152

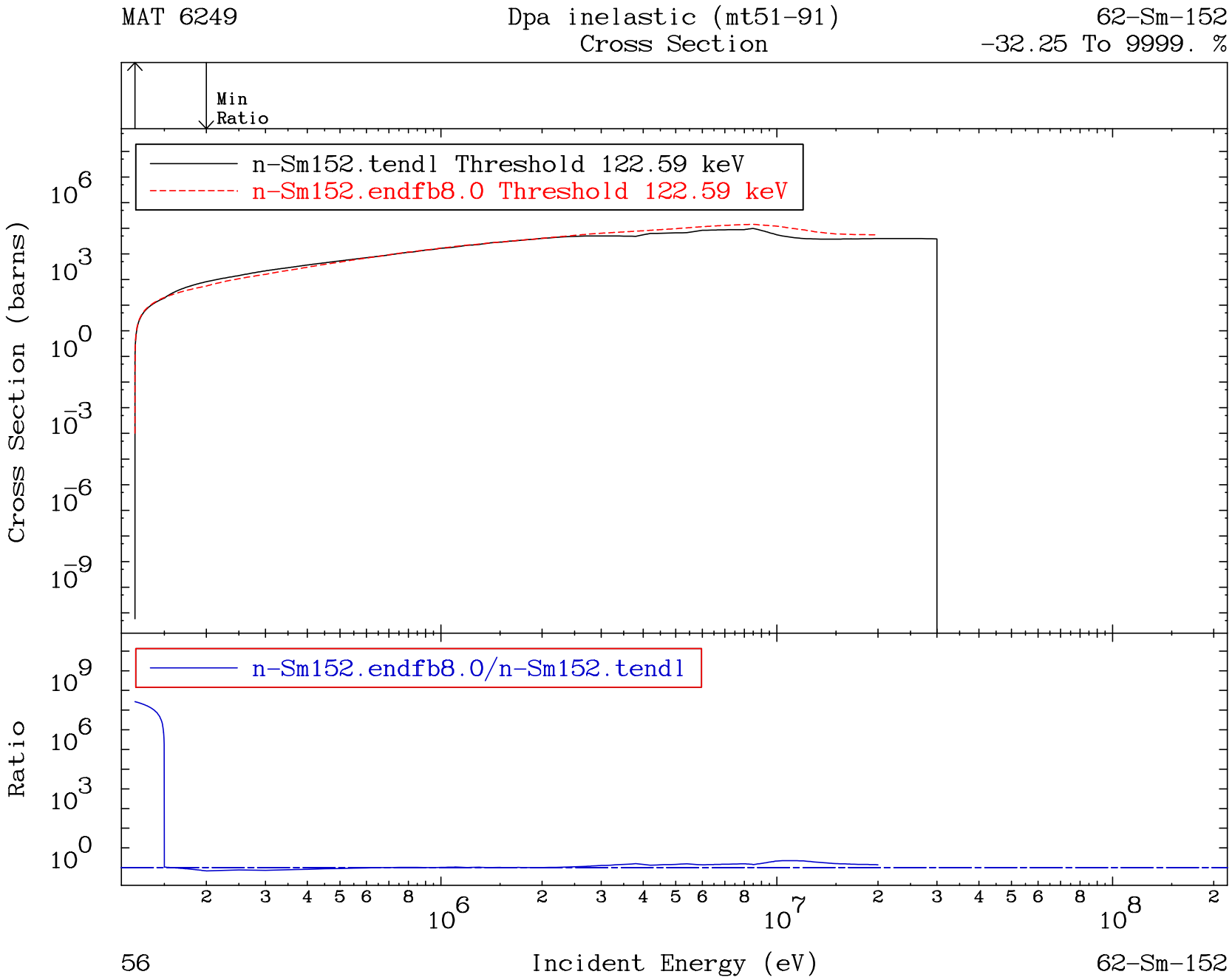

MAT 6249
Kerma capture (mt102)
Cross Section
62-Sm-152
-91.25 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0
Cross Section (barns)
10^{12}
10^{10}
10^{8}
10^{6}
10^{4}
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
10^{2}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
51
Incident Energy (eV)
62-Sm-152

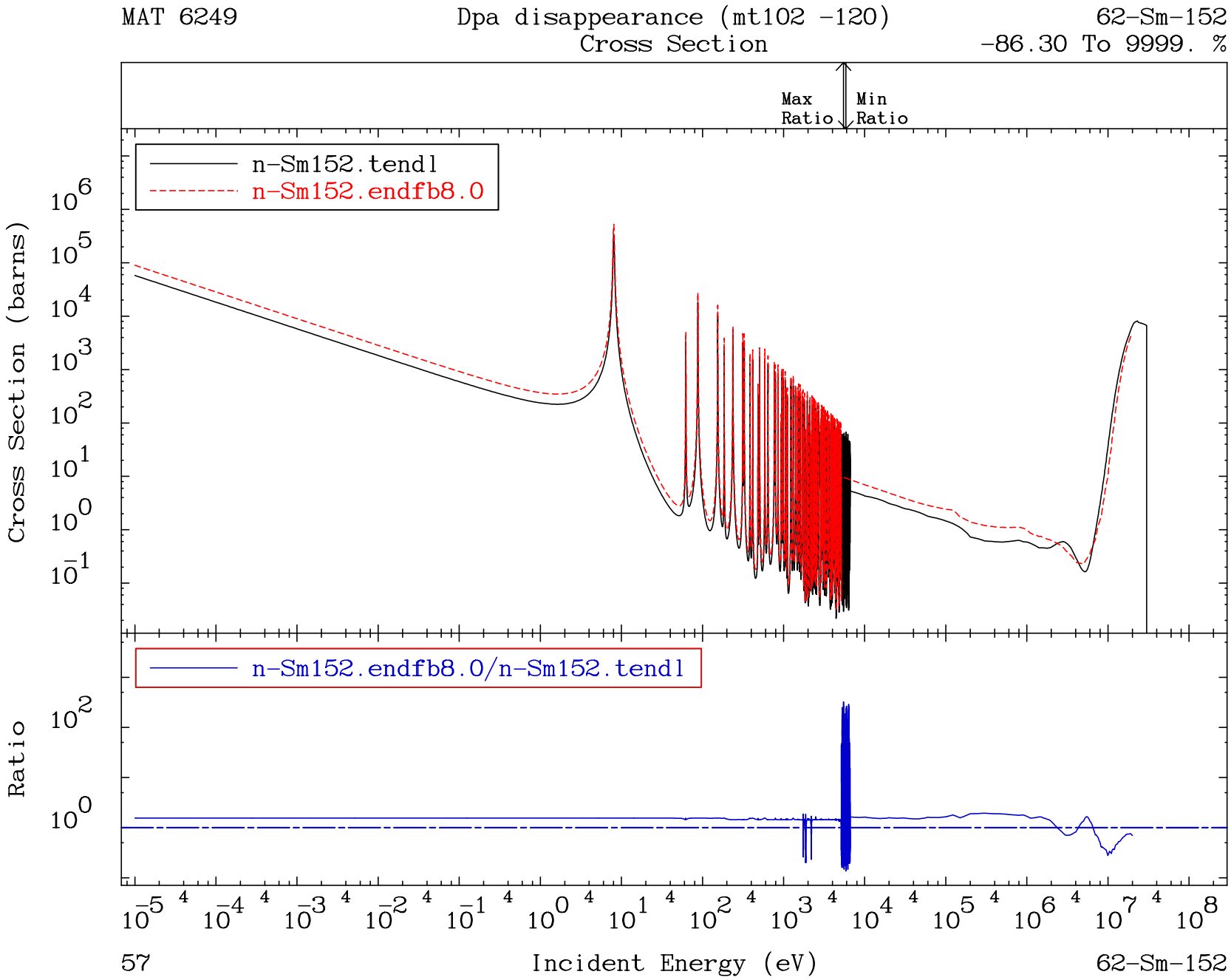

MAT 6249
Total photon (eV-barns)
Cross Section
62-Sm-152
-91.25 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
Incident Energy (eV)
52
62-Sm-152


MAT 6249
Total kinematic kerma (high limit)
Cross Section
62-Sm-152
-91.25 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
Incident Energy (eV)
53
62-Sm-152


MAT 6249
Dpa total (eV-barns)
Cross Section
62-Sm-152
-95.68 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
54
Incident Energy (eV)
62-Sm-152


MAT 6249
Dpa elastic (mt2)
Cross Section
62-Sm-152
-95.72 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl Threshold 895.77 eV
n-Sm152.endfb8.0 Threshold 886.32 eV
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
Incident Energy (eV)
55
62-Sm-152


MAT 6249
Dpa inelastic (mt51-91)
Cross Section
62-Sm-152
-32.25 To 9999. %
Min
Ratio
n-Sm152.tendl Threshold 122.59 keV
n-Sm152.endfb8.0 Threshold 122.59 keV
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
Incident Energy (eV)
56
62-Sm-152


MAT 6249
Dpa disappearance (mt102 -120)
Cross Section
62-Sm-152
-86.30 To 9999. %
Max Ratio
Min Ratio
n-Sm152.tendl
n-Sm152.endfb8.0
Cross Section (barns)
n-Sm152.endfb8.0/n-Sm152.tendl
Ratio
57
Incident Energy (eV)
62-Sm-152