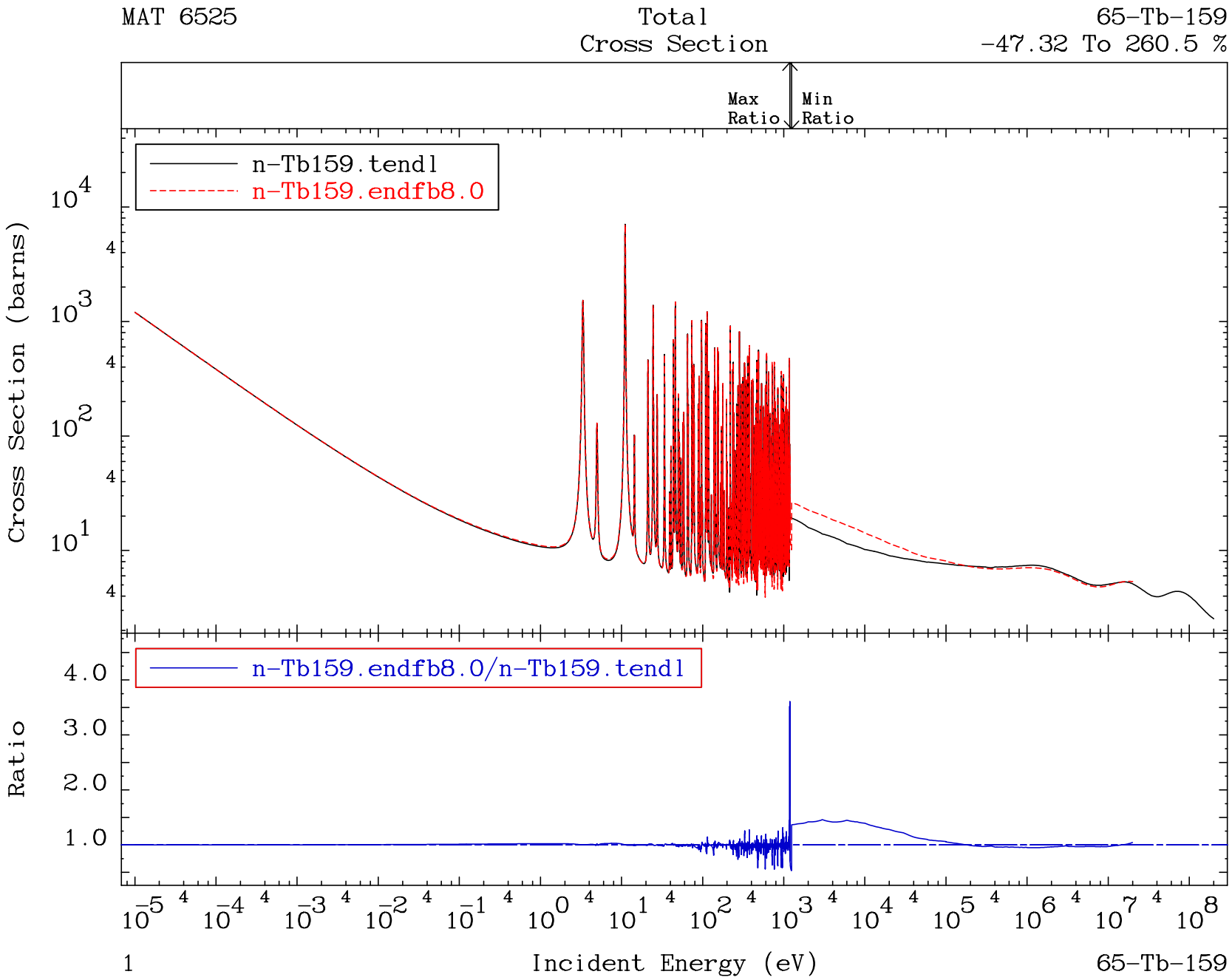
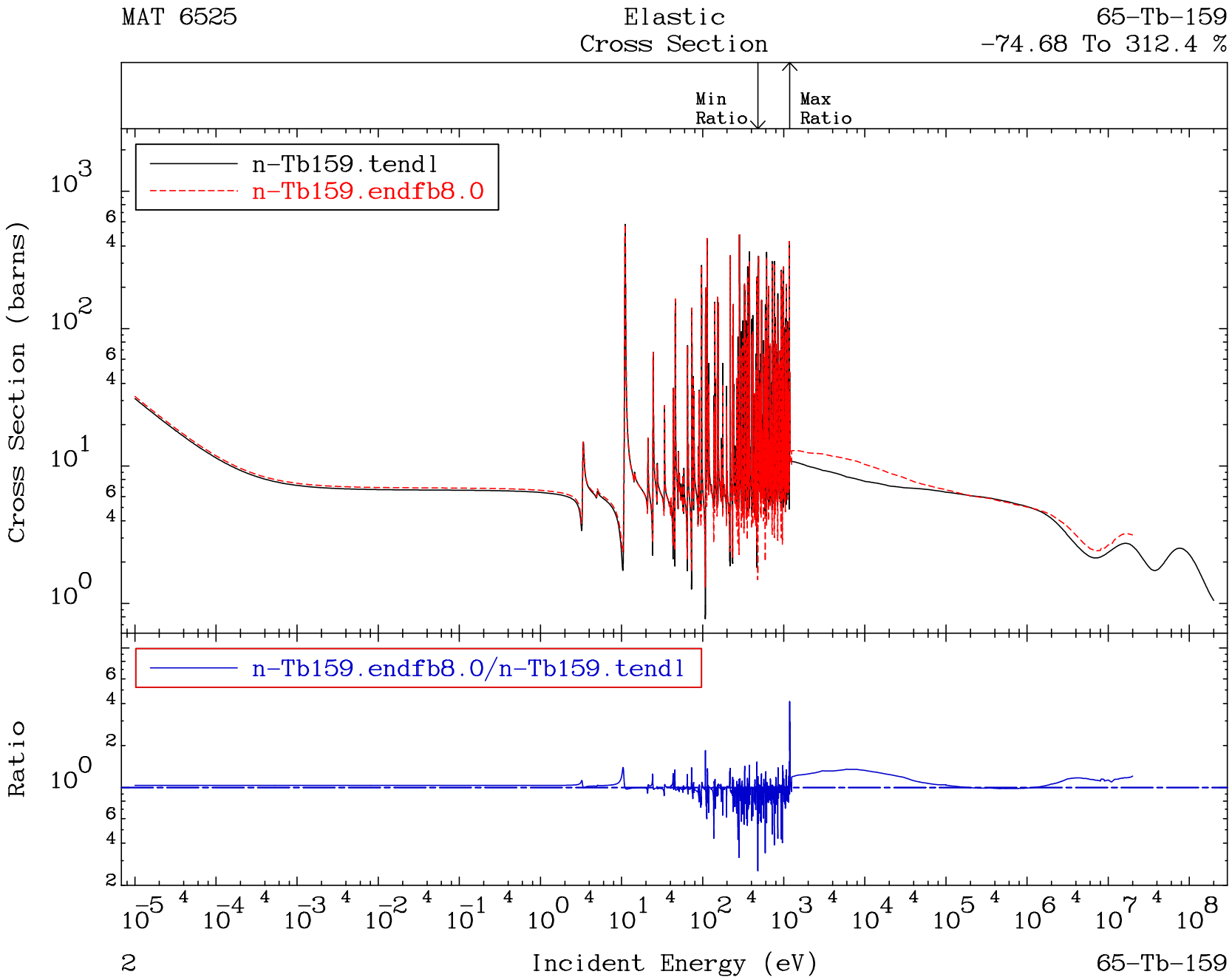
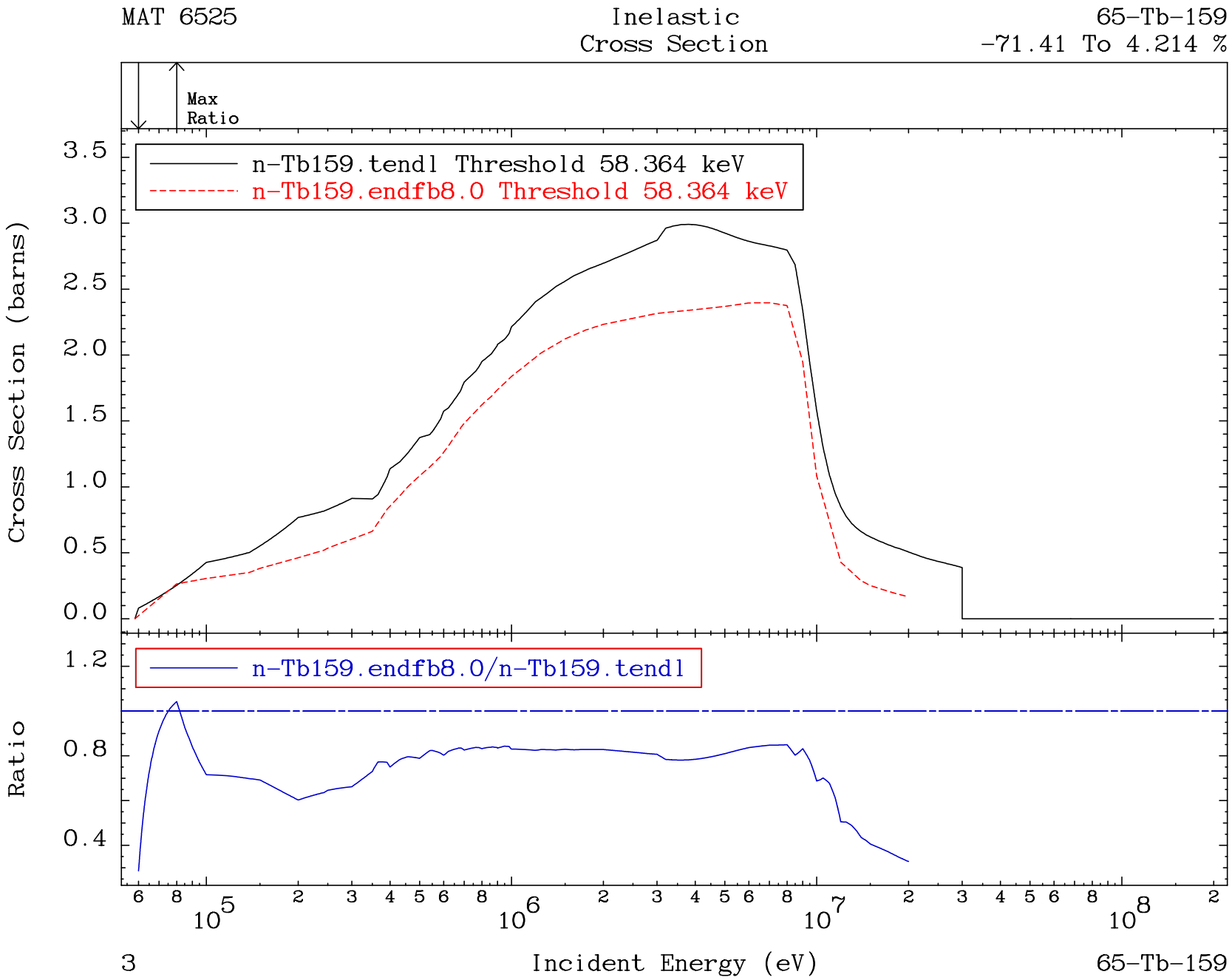
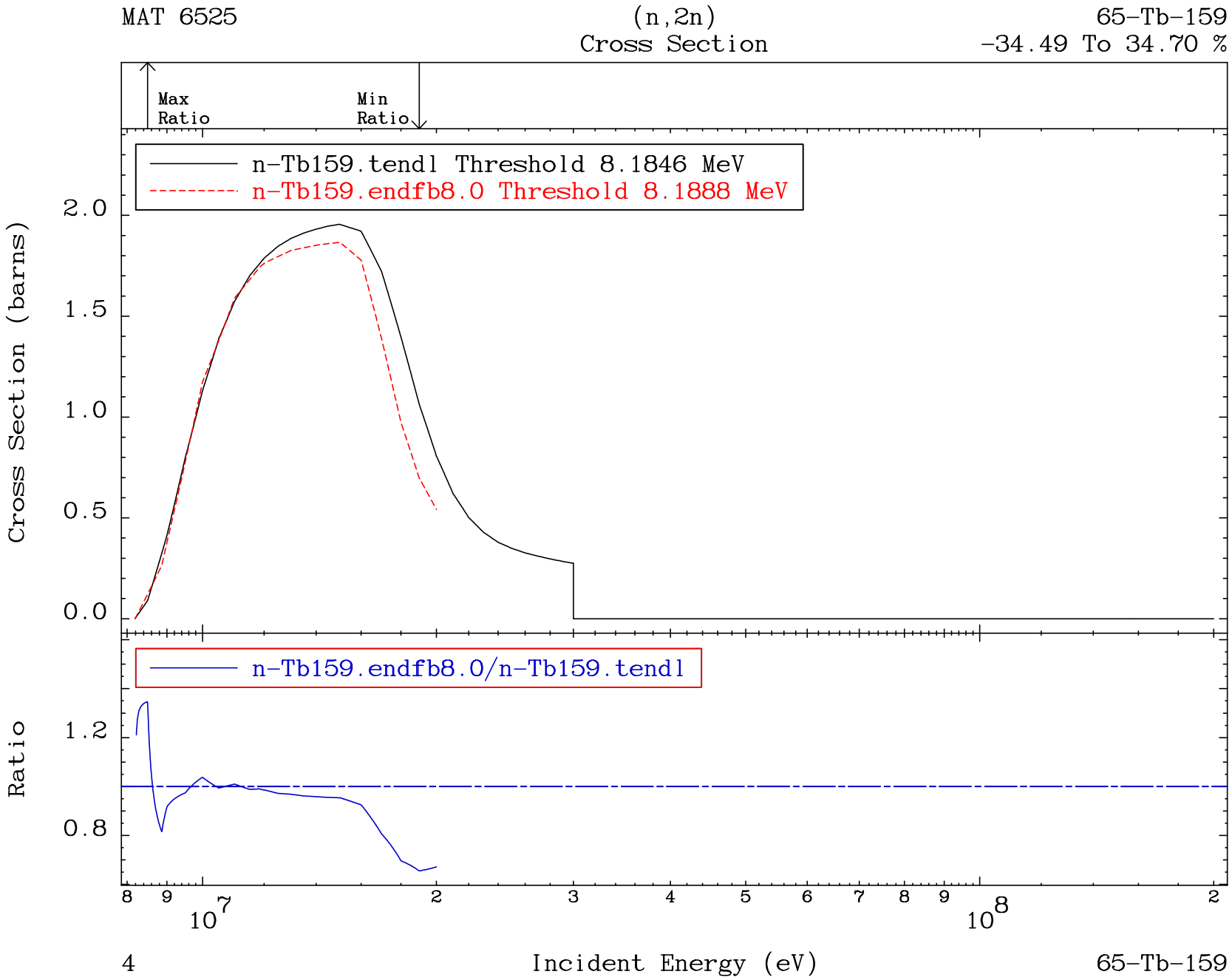
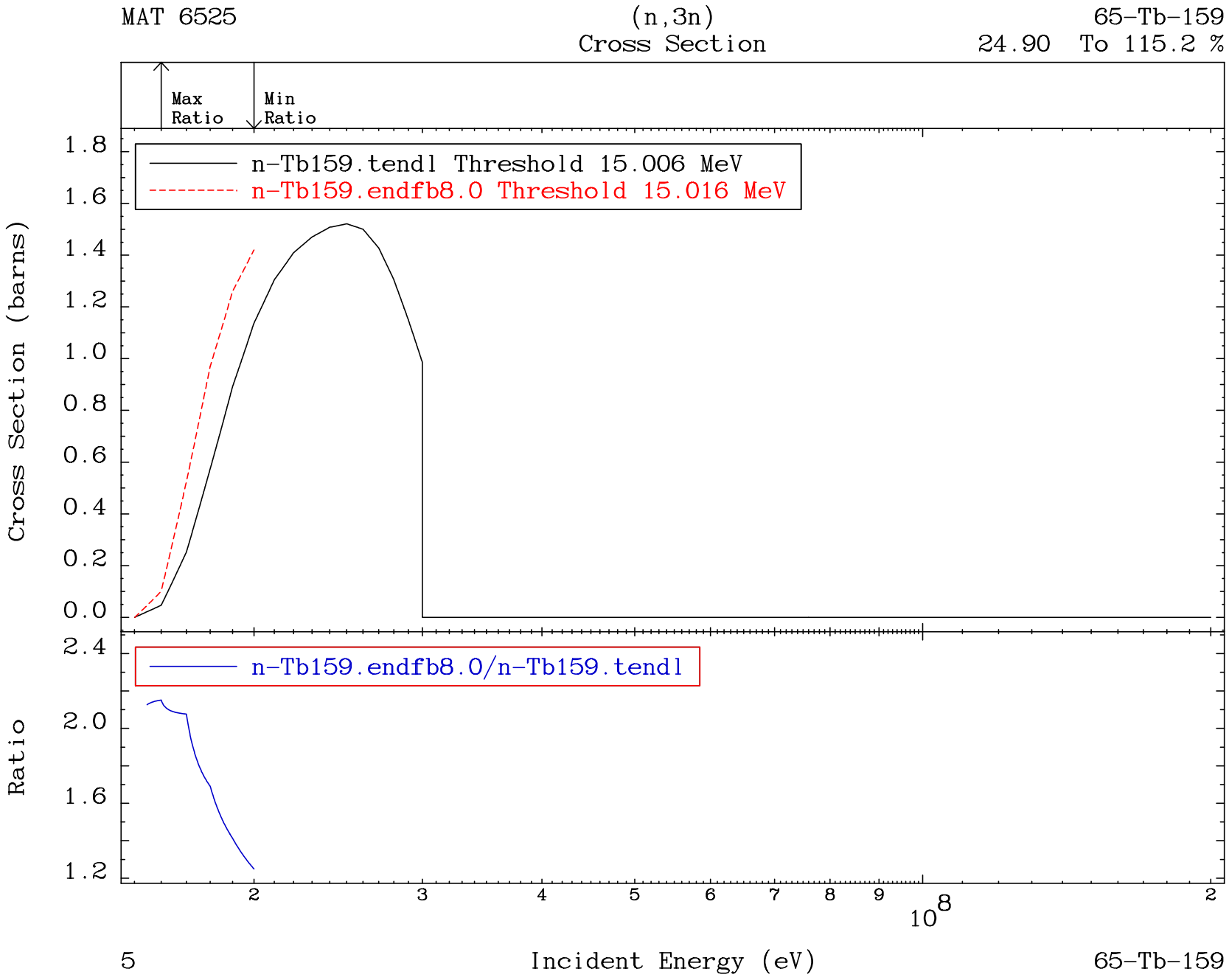
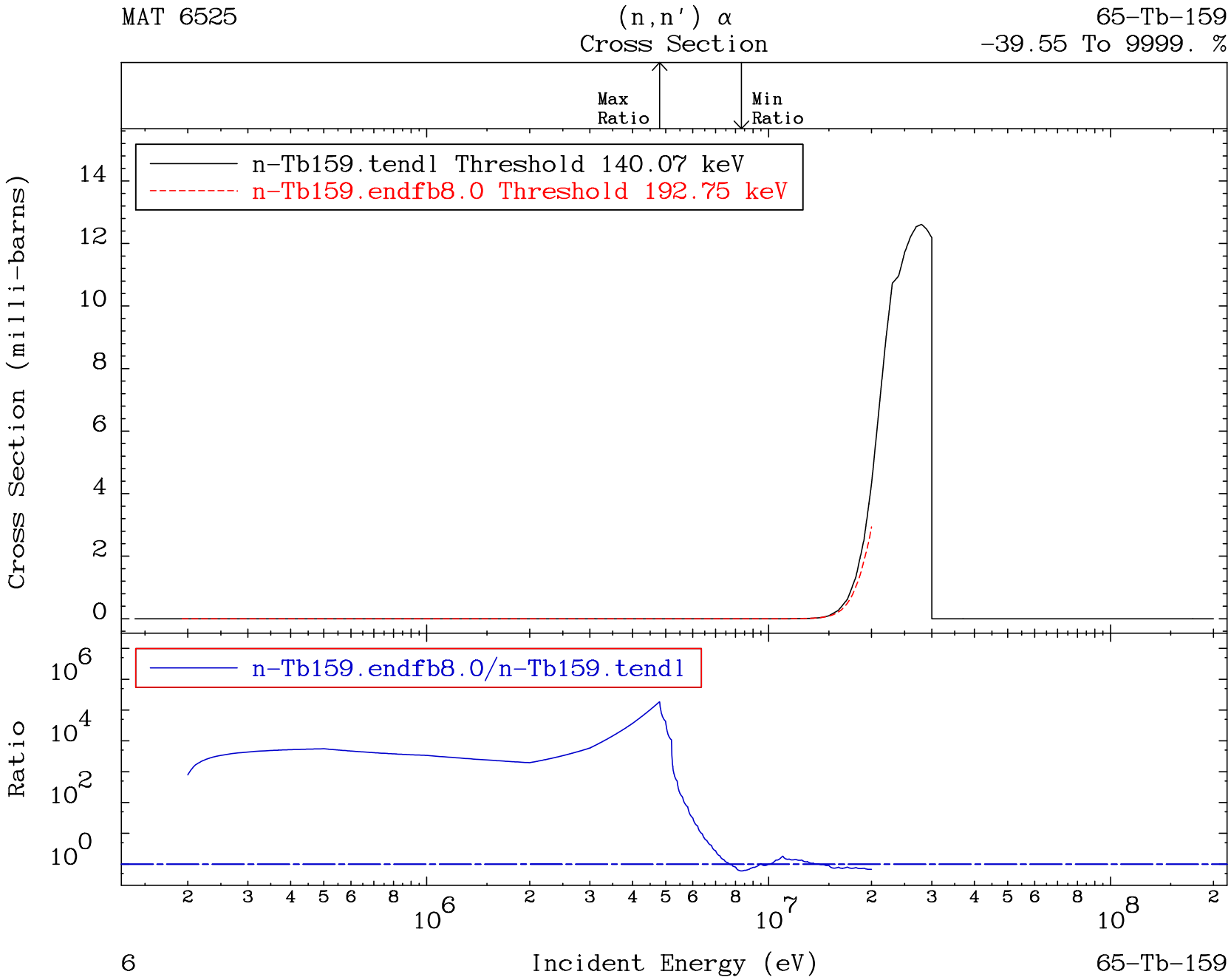

MAT 6525
Total
Cross Section
65-Tb-159
-47.32 To 260.5 %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.endfb8.0
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
Incident Energy (eV)
1
65-Tb-159

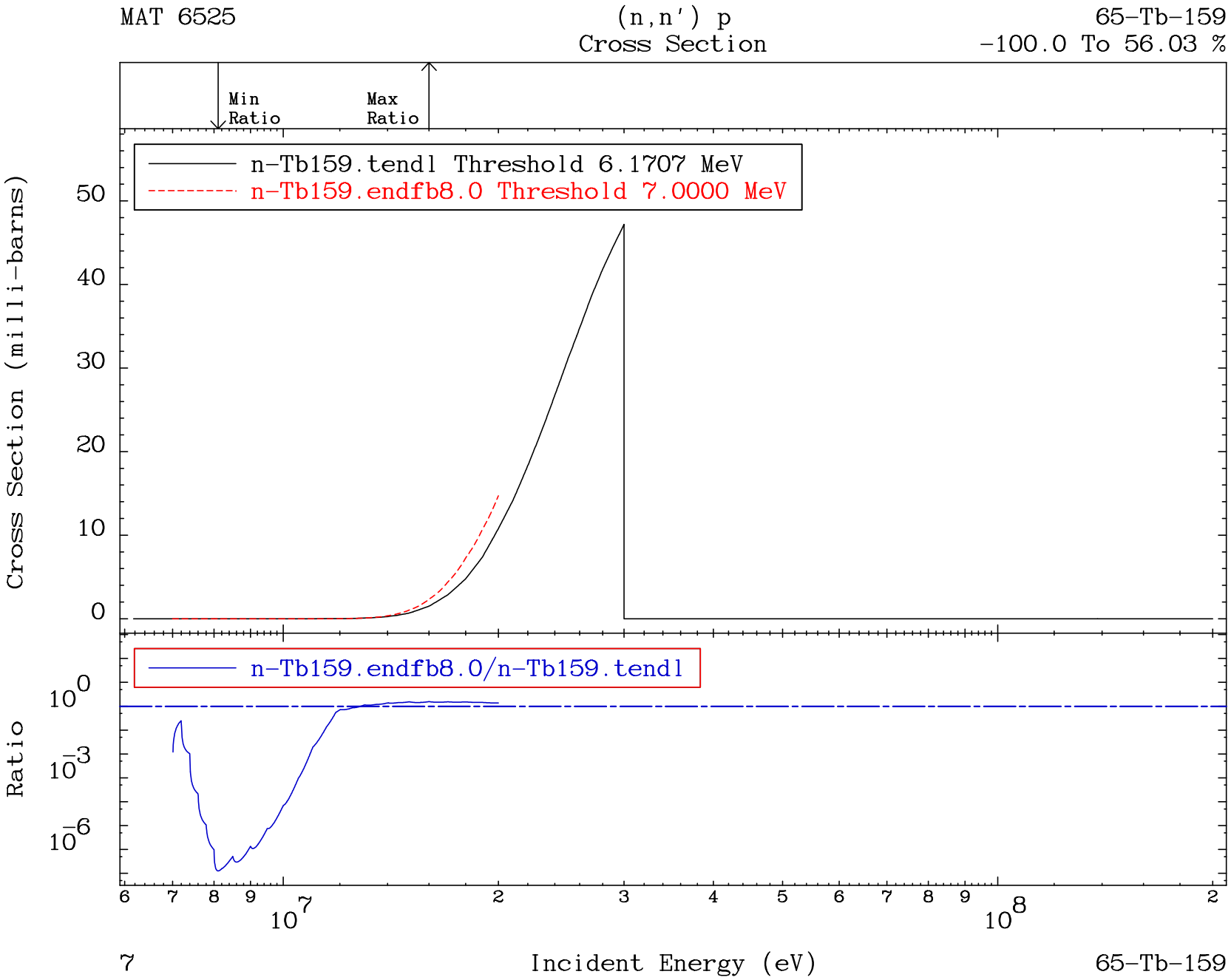

MAT 6525
Elastic
Cross Section
65-Tb-159
-74.68 To 312.4 %
Min
Ratio
Max
Ratio
n-Tb159.tendl
n-Tb159.endfb8.0
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
Incident Energy (eV)
2
65-Tb-159

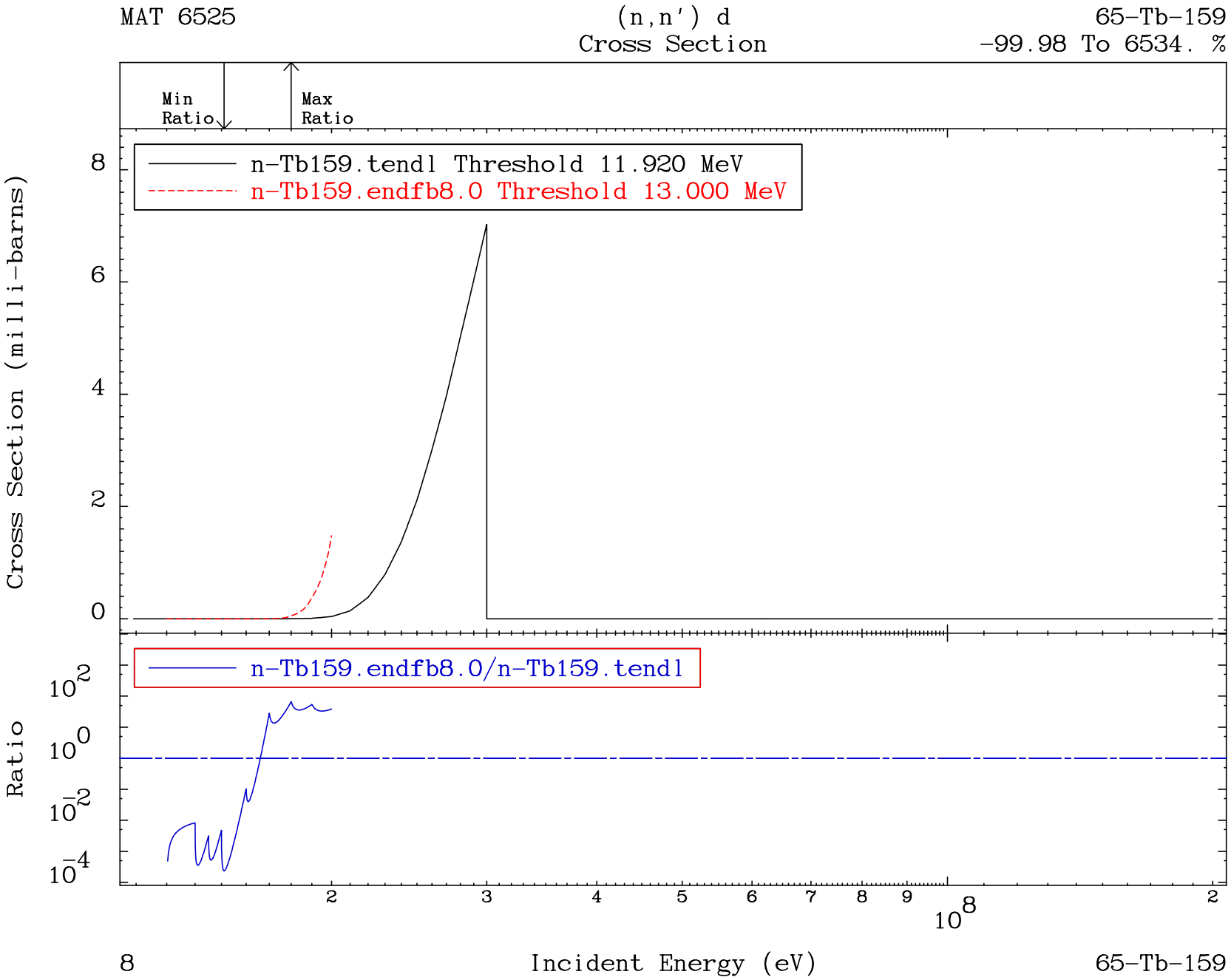

MAT 6525
Inelastic
Cross Section
65-Tb-159
-71.41 To 4.214 %
Max
Ratio
n-Tb159.tendl Threshold 58.364 keV
n-Tb159.endfb8.0 Threshold 58.364 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
1.2
0.8
0.4
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
65-Tb-159

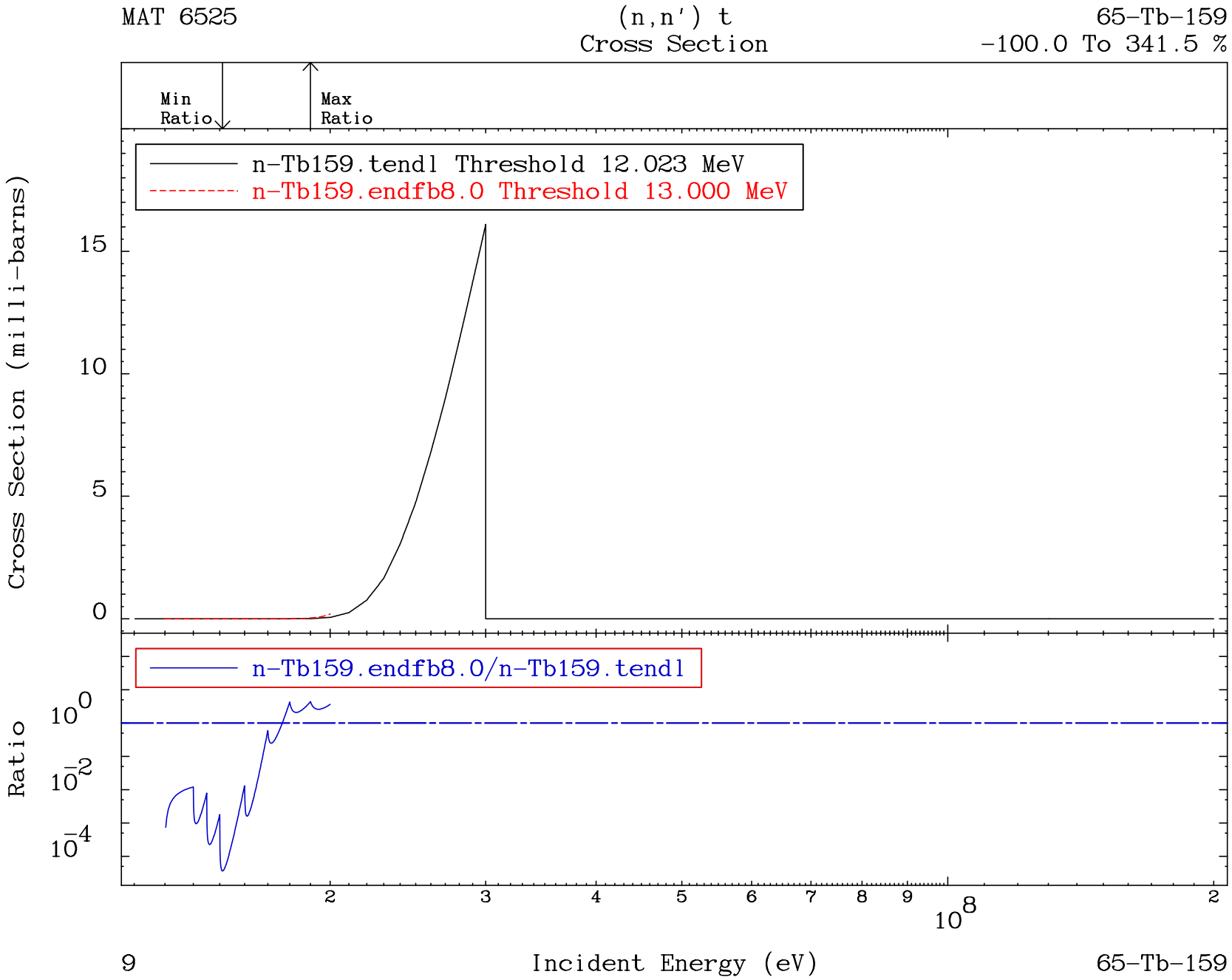

MAT 6525
(n,2n)
Cross Section
65-Tb-159
-34.49 To 34.70 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 8.1846 MeV
n-Tb159.endfb8.0 Threshold 8.1888 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
1.2
0.8
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
65-Tb-159

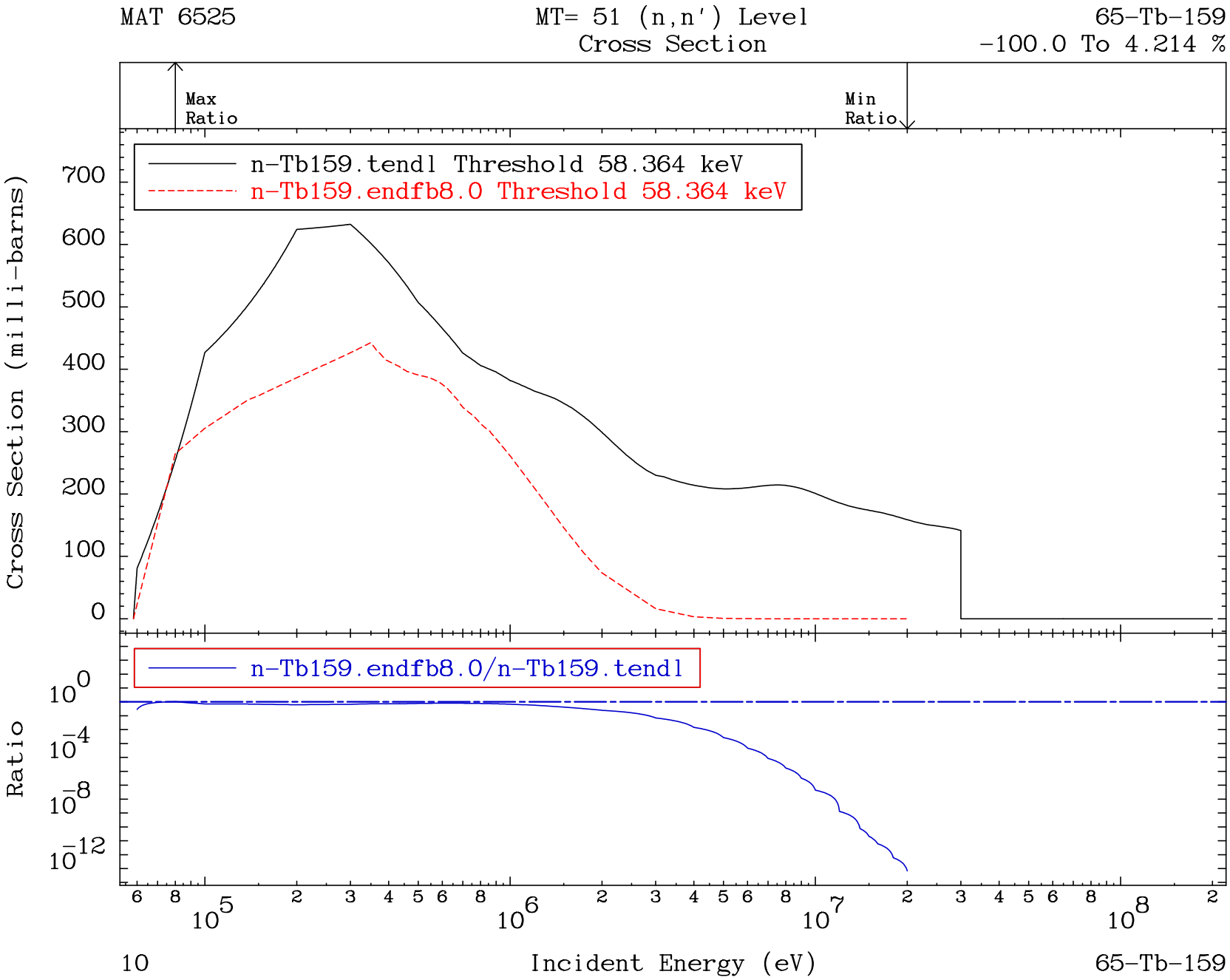

MAT 6525
(n,3n)
Cross Section
65-Tb-159
24.90 To 115.2 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 15.006 MeV
n-Tb159.endfb8.0 Threshold 15.016 MeV
Cross Section (barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
2.4
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
65-Tb-159

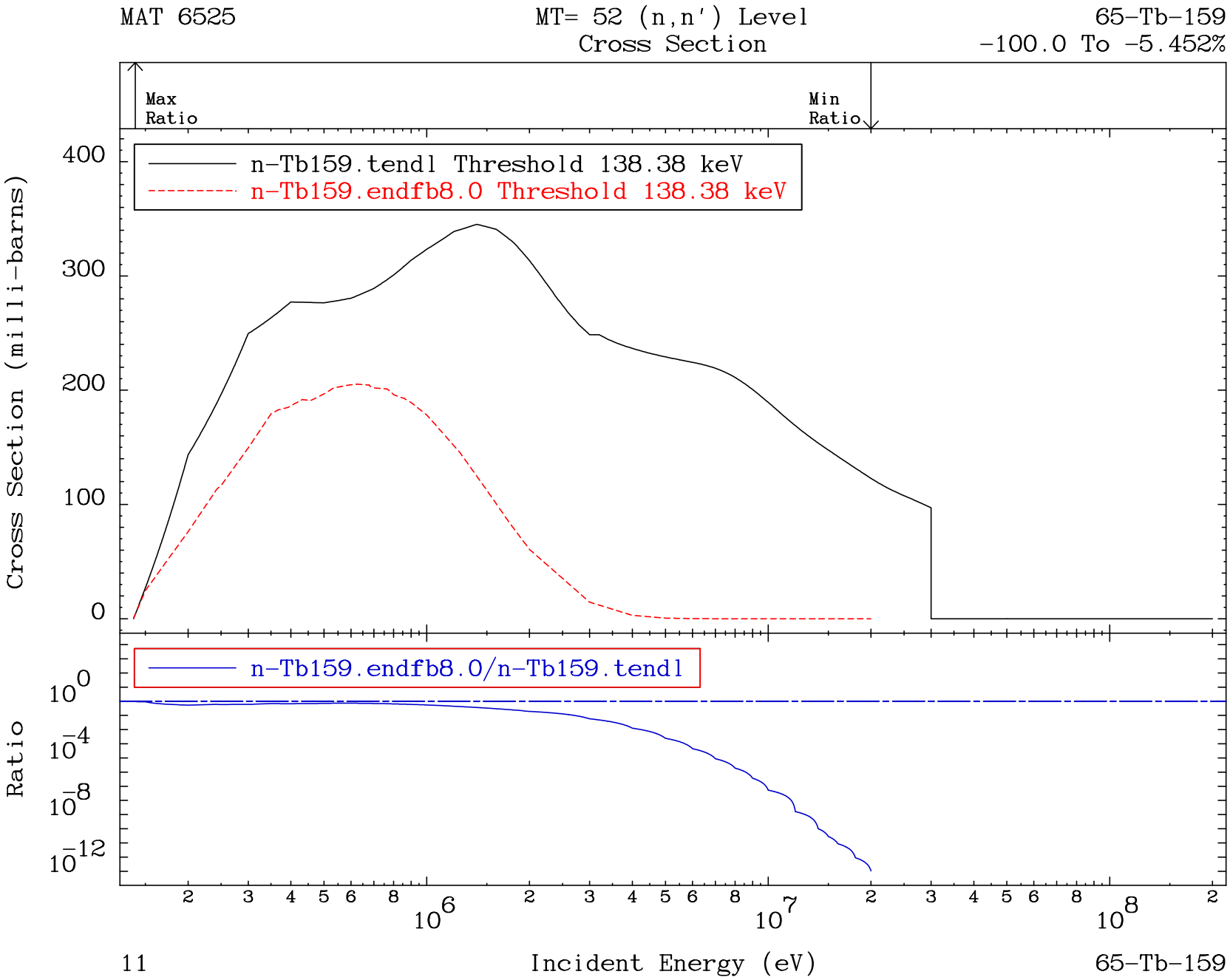

MAT 6525
(n,n') α
Cross Section
65-Tb-159
-39.55 To 9999. %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 140.07 keV
n-Tb159.endfb8.0 Threshold 192.75 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^2
10^4
10^6
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
6
Incident Energy (eV)
65-Tb-159

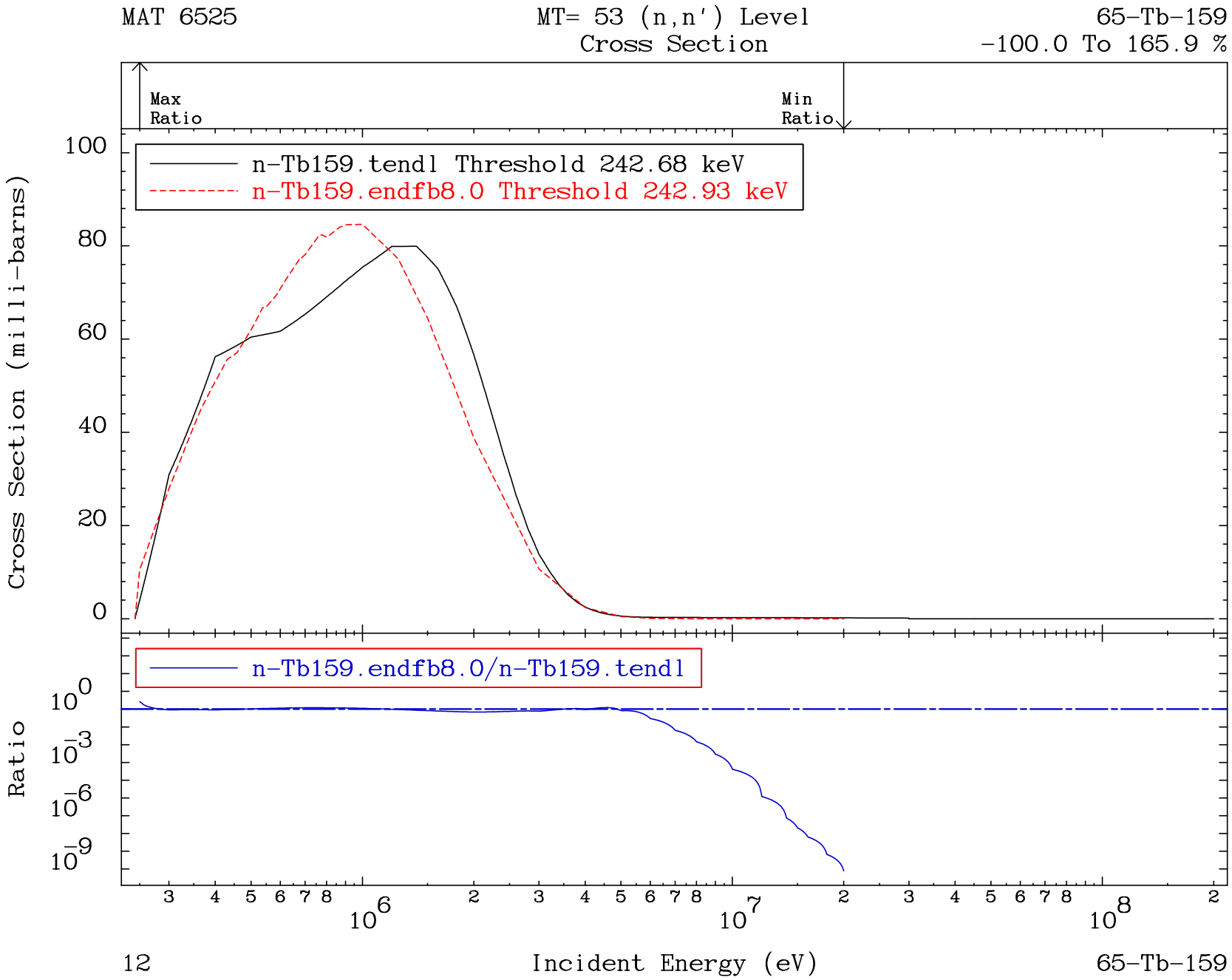

MAT 6525
(n,n') p
Cross Section
65-Tb-159
-100.0 To 56.03 %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 6.1707 MeV
n-Tb159.endfb8.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
0
10
20
30
40
50
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
7
65-Tb-159

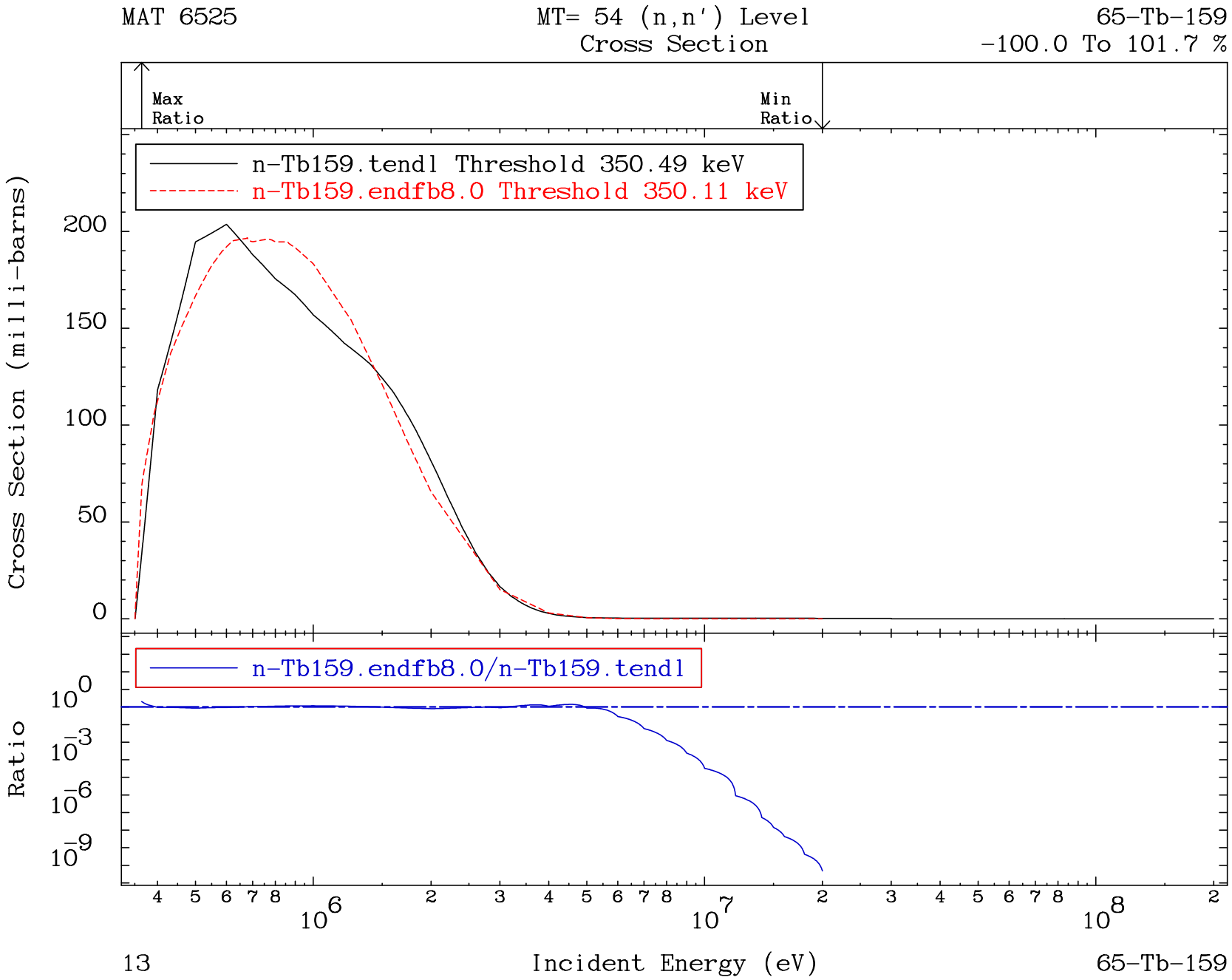

MAT 6525
(n,n') d
Cross Section
65-Tb-159
-99.98 To 6534. %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 11.920 MeV
n-Tb159.endfb8.0 Threshold 13.000 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^2
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
65-Tb-159

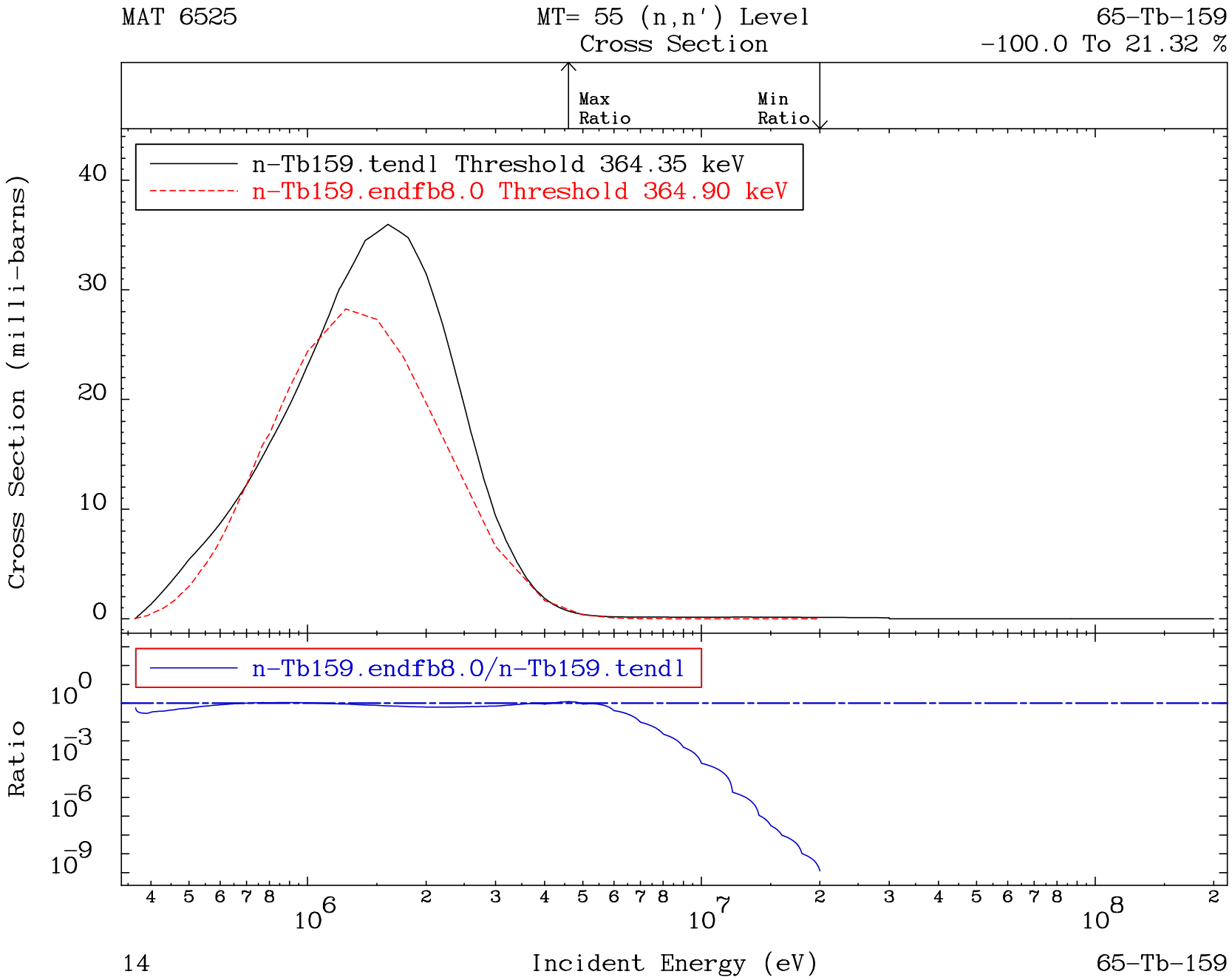

MAT 6525
(n,n') t
Cross Section
65-Tb-159
-100.0 To 341.5 %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 12.023 MeV
n-Tb159.endfb8.0 Threshold 13.000 MeV
Cross Section (milli-barns)
15
10
5
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
65-Tb-159

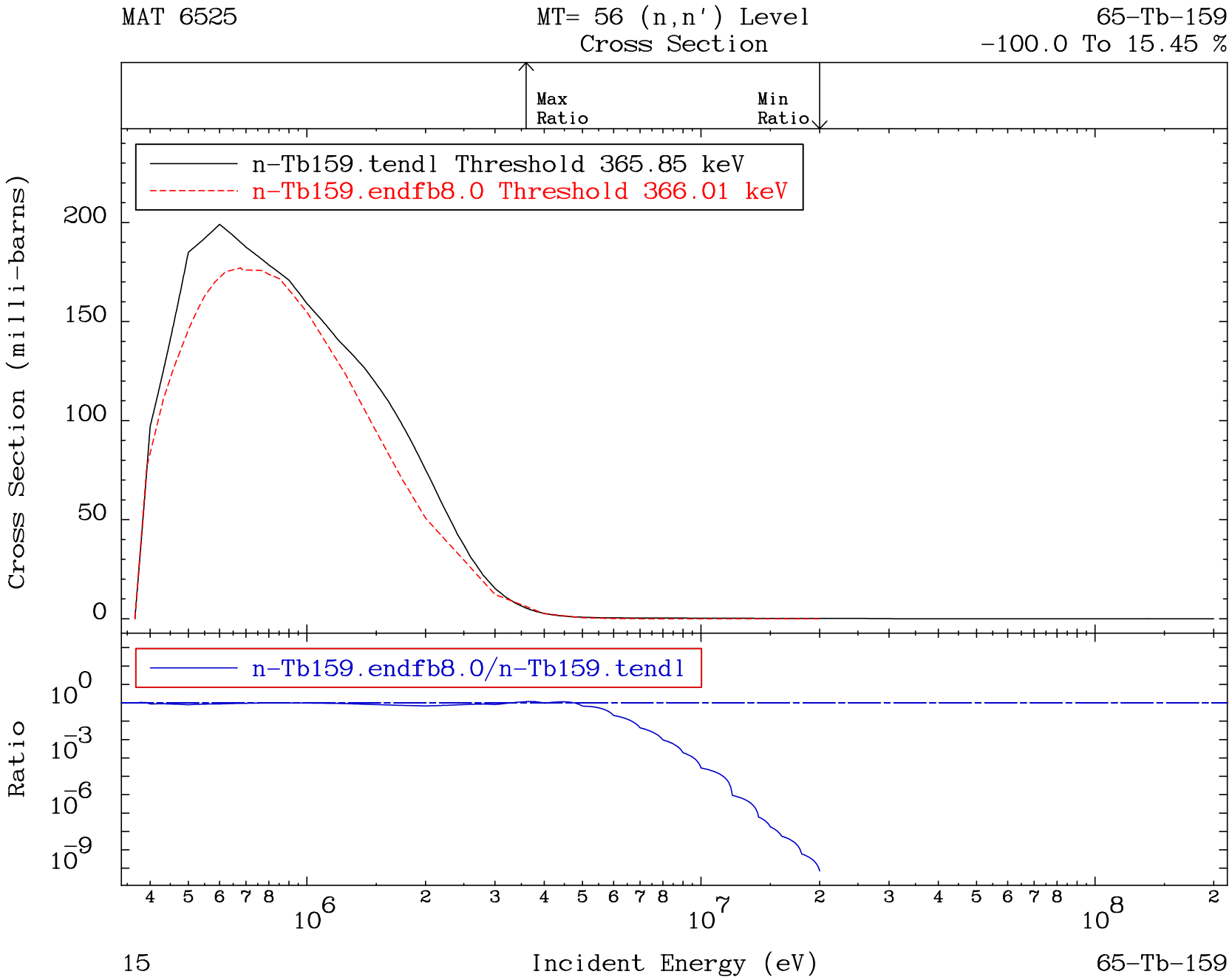

MAT 6525
MT= 51 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 4.214 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 58.364 keV
n-Tb159.endfb8.0 Threshold 58.364 keV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-4
10^-8
10^-12
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
65-Tb-159

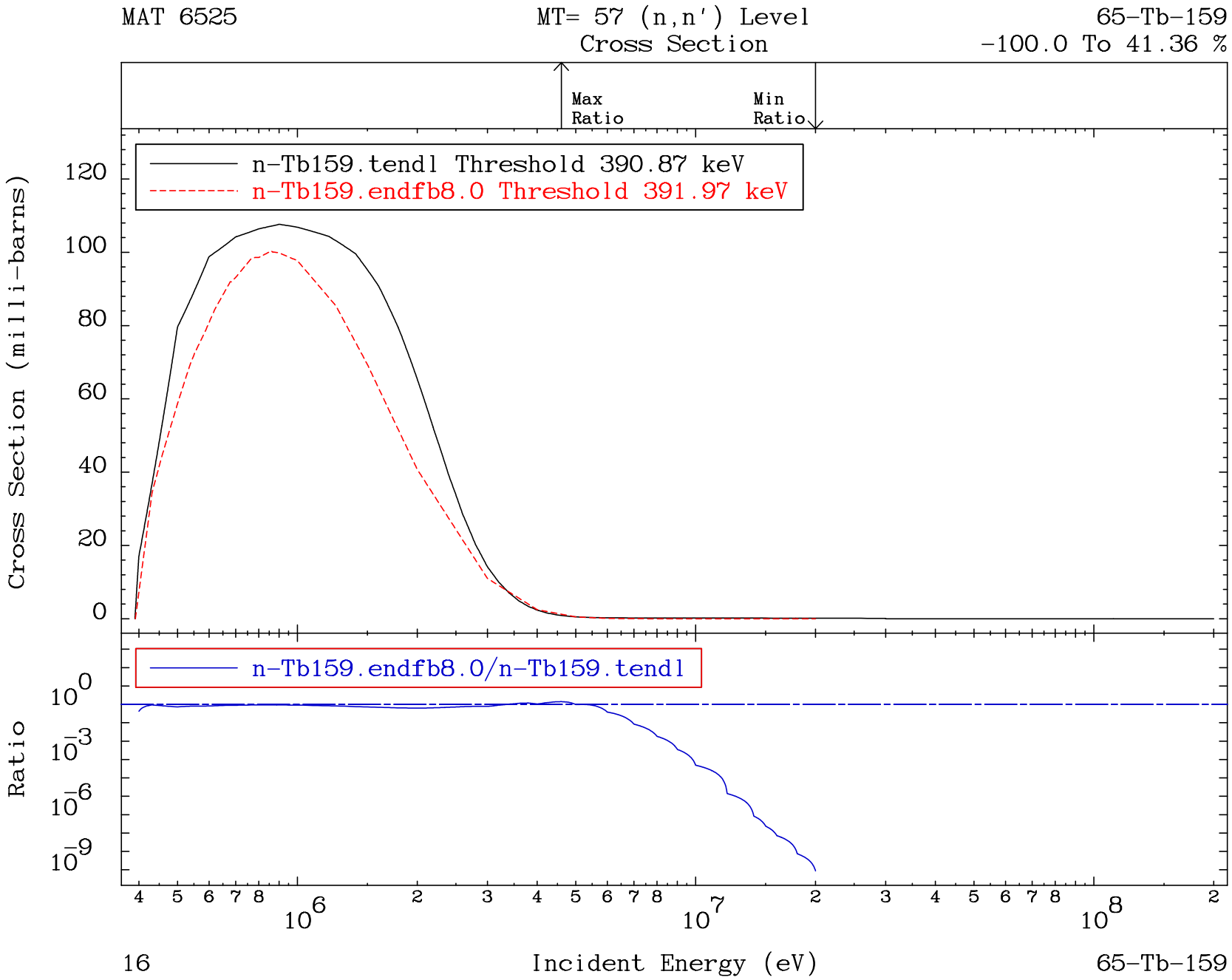

MAT 6525
MT= 52 (n,n') Level
Cross Section
65-Tb-159
-100.0 To -5.452%
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 138.38 keV
n-Tb159.endfb8.0 Threshold 138.38 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-4
10^-8
10^-12
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
65-Tb-159

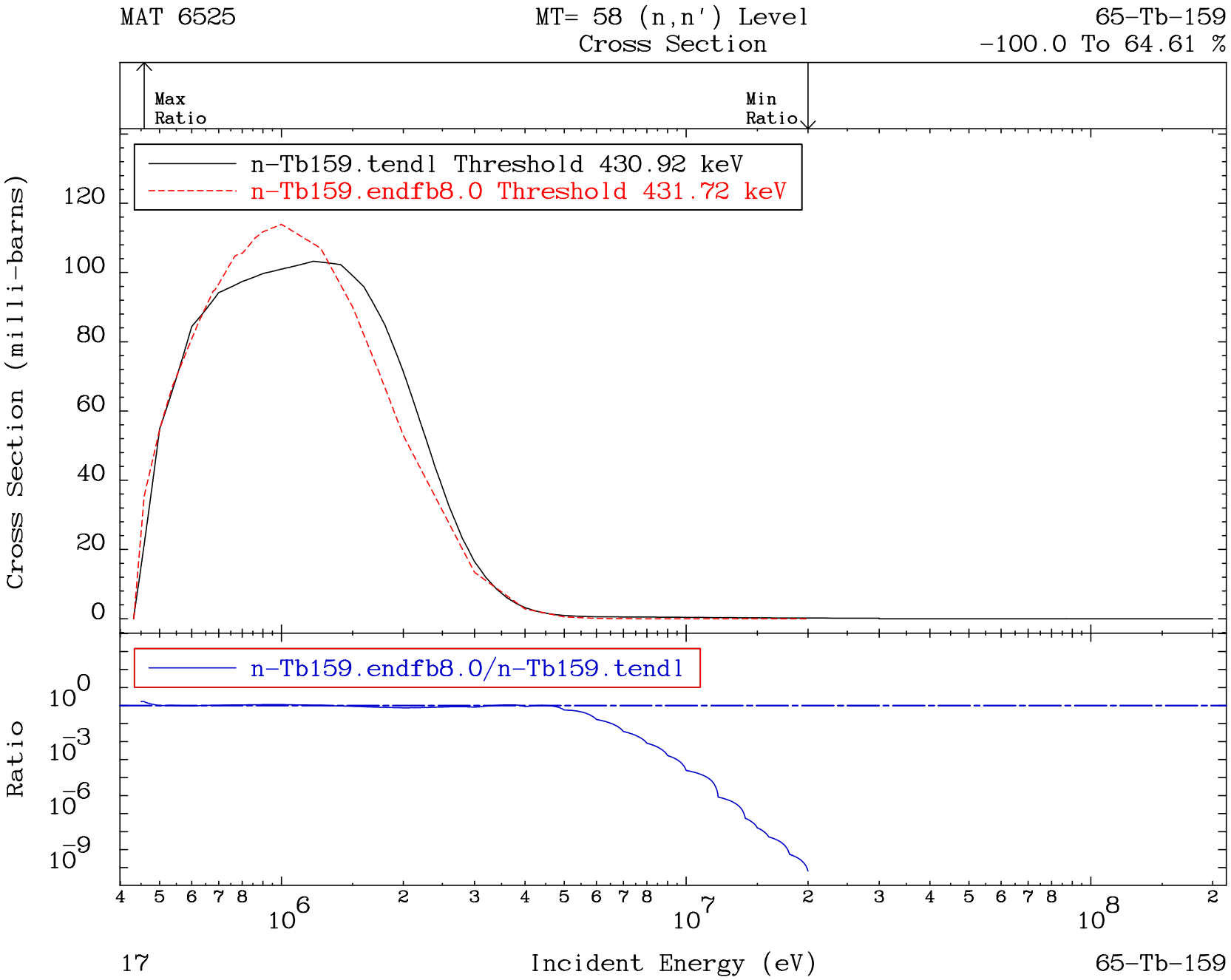

MAT 6525
MT= 53 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 165.9 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 242.68 keV
n-Tb159.endfb8.0 Threshold 242.93 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
65-Tb-159

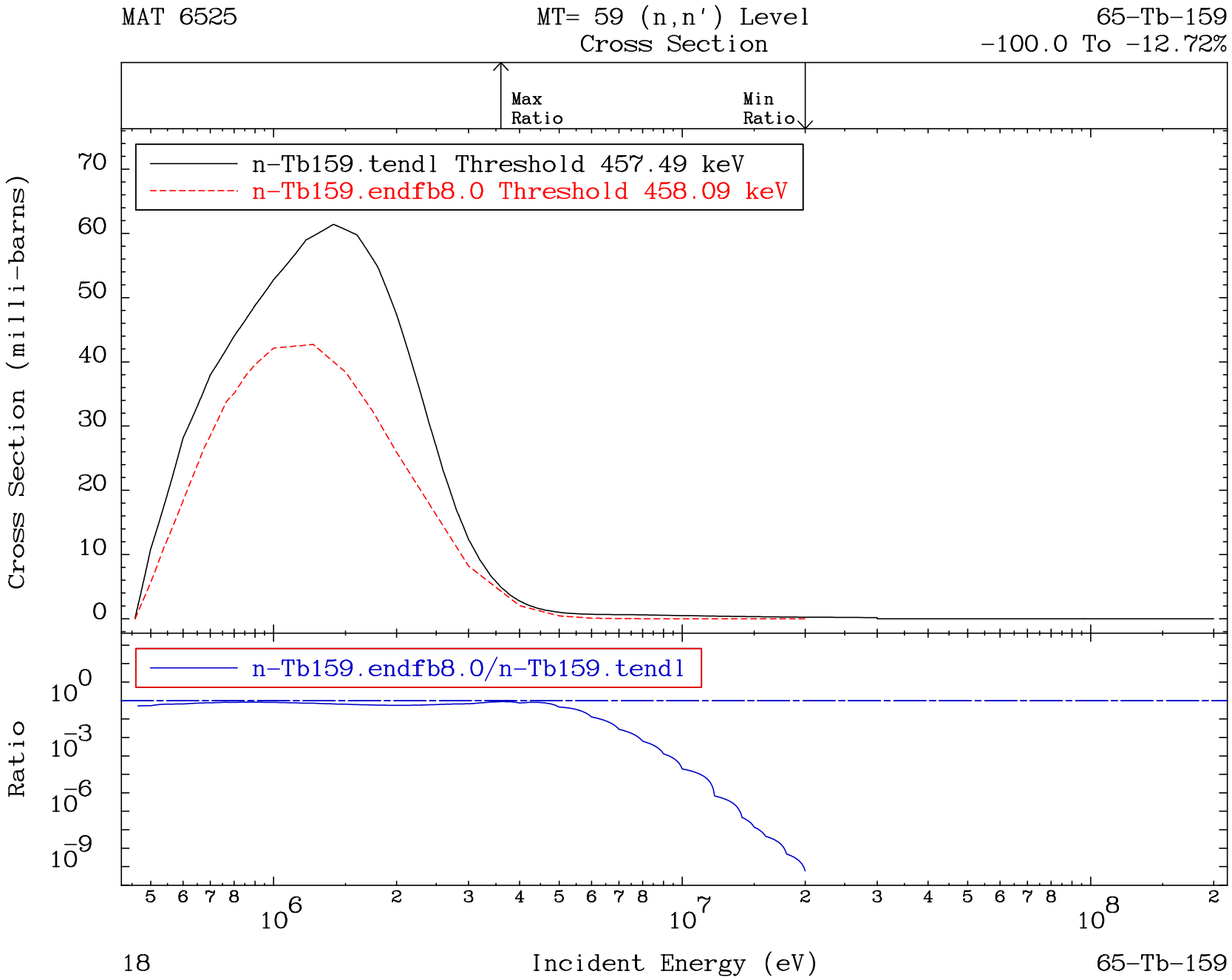

MAT 6525
MT= 54 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 101.7 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 350.49 keV
n-Tb159.endfb8.0 Threshold 350.11 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
65-Tb-159

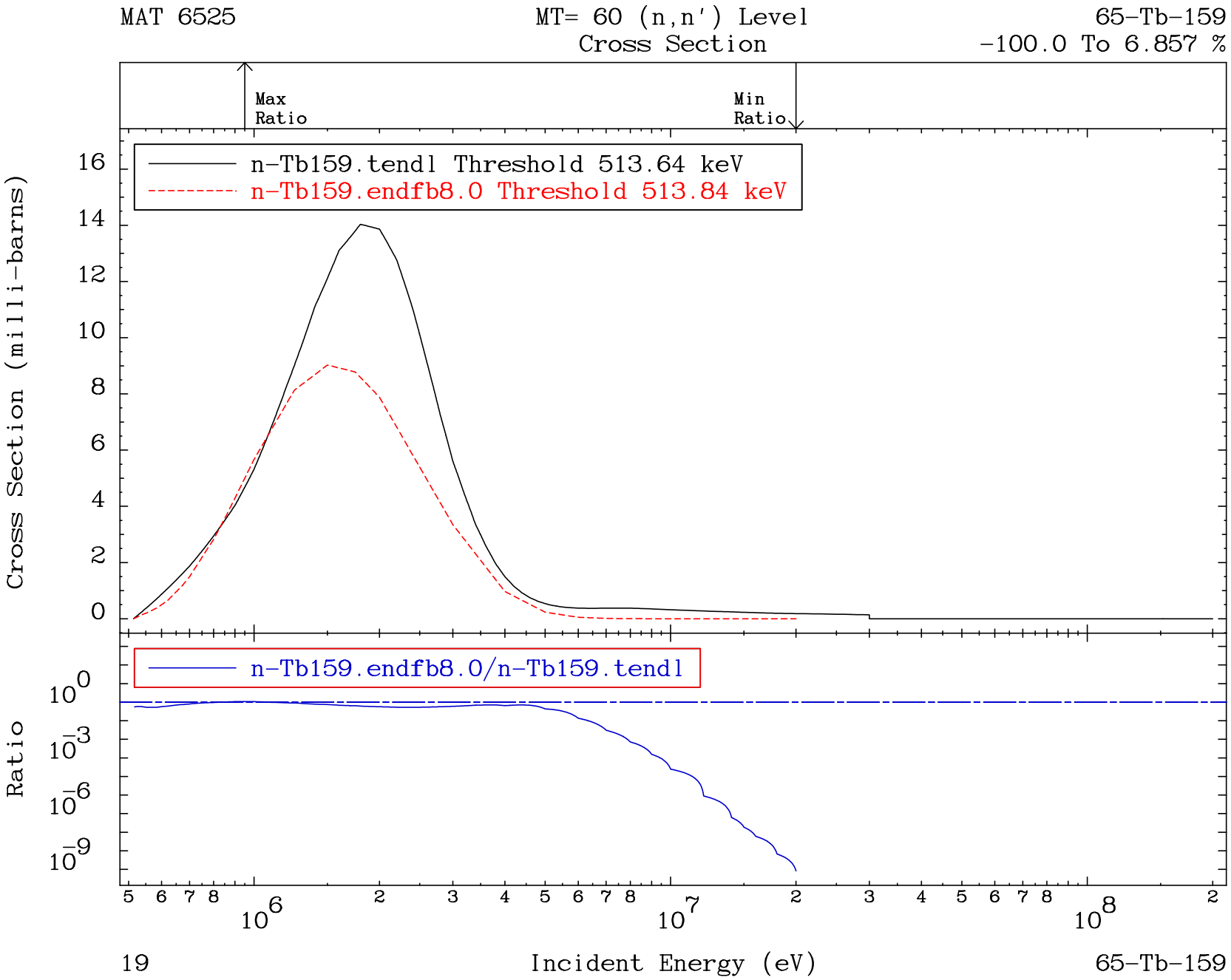

MAT 6525
MT= 55 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 21.32 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 364.35 keV
n-Tb159.endfb8.0 Threshold 364.90 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
65-Tb-159

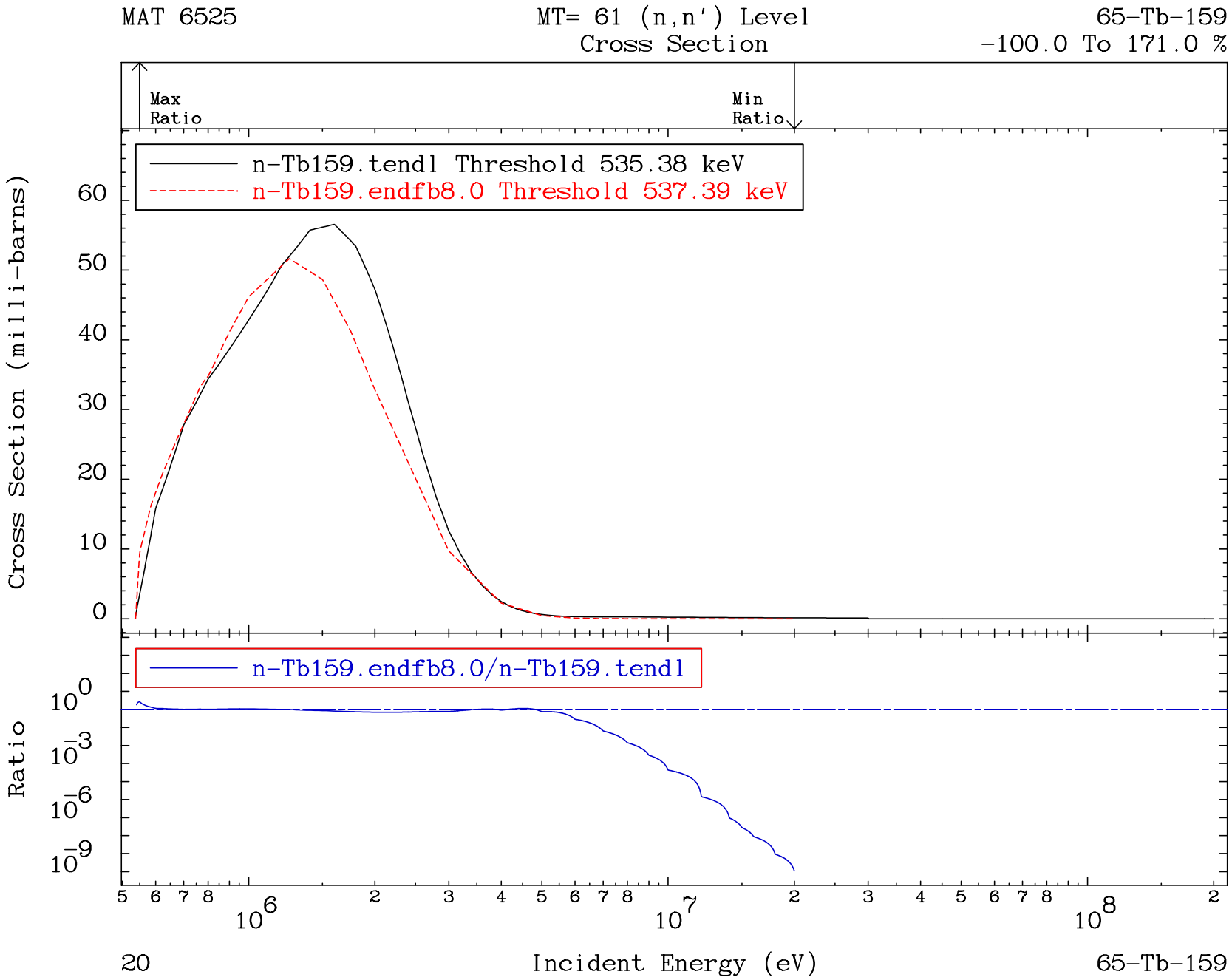

MAT 6525
MT= 56 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 15.45 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 365.85 keV
n-Tb159.endfb8.0 Threshold 366.01 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
65-Tb-159

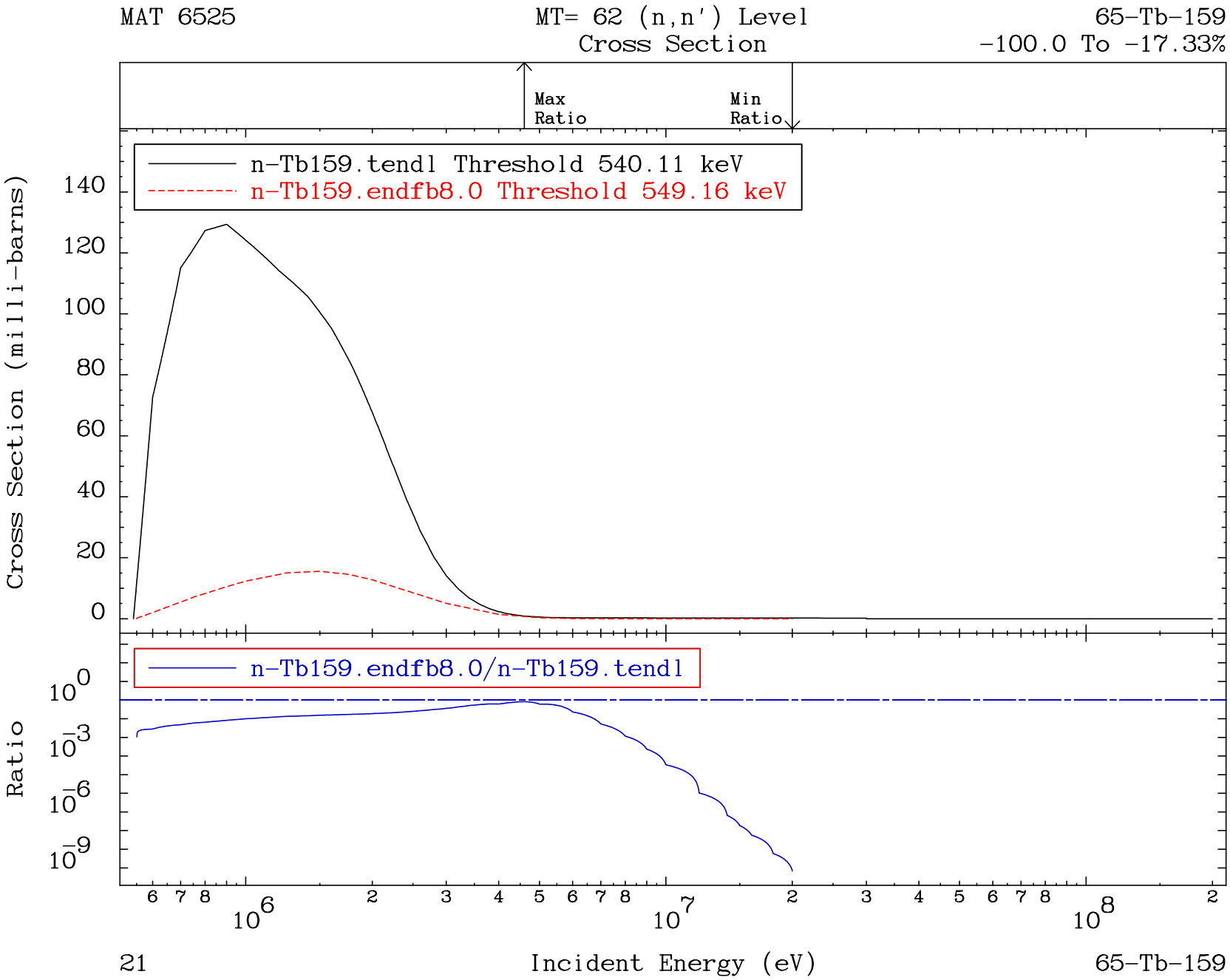

MAT 6525
MT= 57 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 41.36 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 390.87 keV
n-Tb159.endfb8.0 Threshold 391.97 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
65-Tb-159

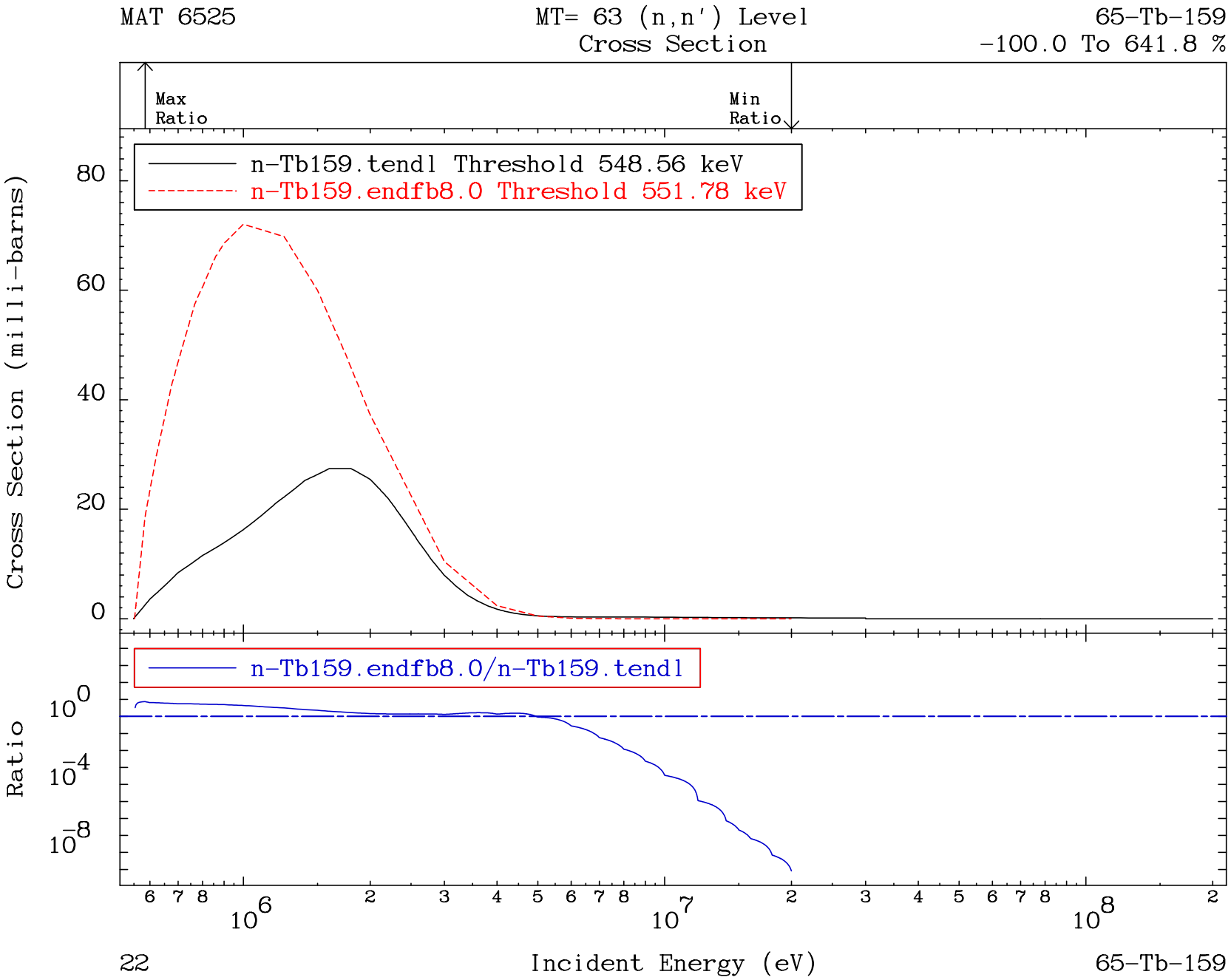

MAT 6525
MT= 58 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 64.61 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 430.92 keV
n-Tb159.endfb8.0 Threshold 431.72 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
65-Tb-159

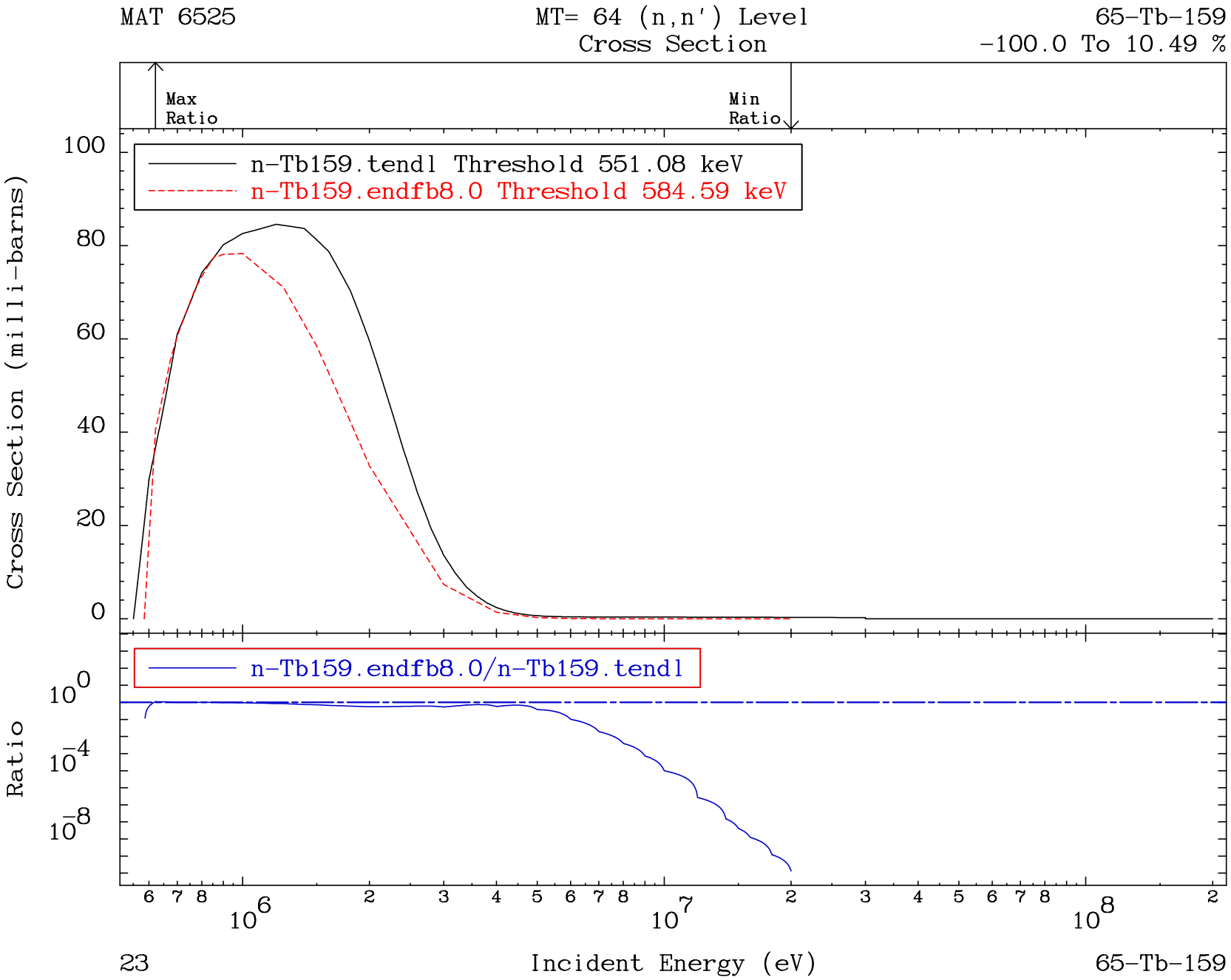

MAT 6525
MT= 59 (n,n') Level
Cross Section
65-Tb-159
-100.0 To -12.72%
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 457.49 keV
n-Tb159.endfb8.0 Threshold 458.09 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
65-Tb-159

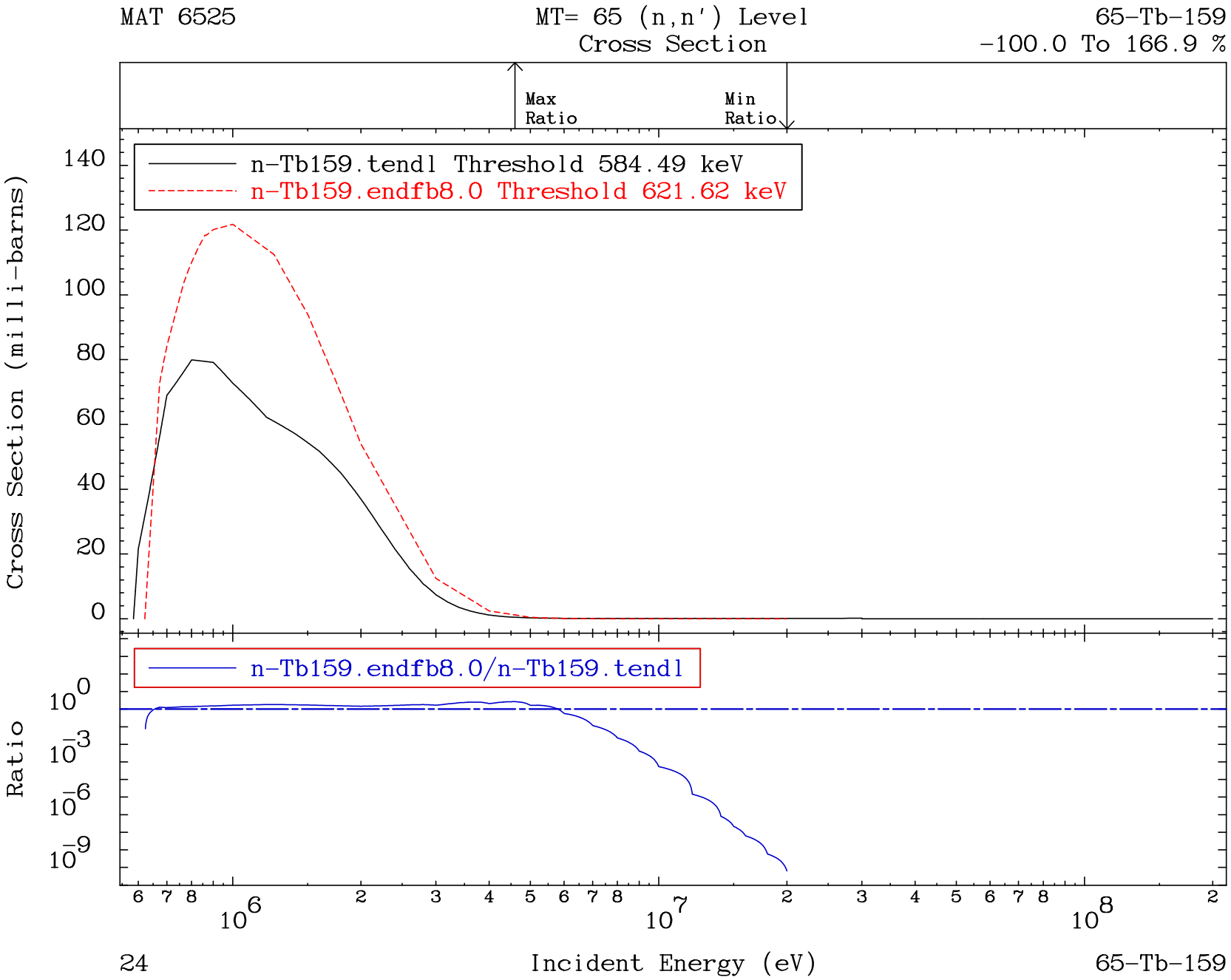

MAT 6525
MT= 60 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 6.857 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 513.64 keV
n-Tb159.endfb8.0 Threshold 513.84 keV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
65-Tb-159

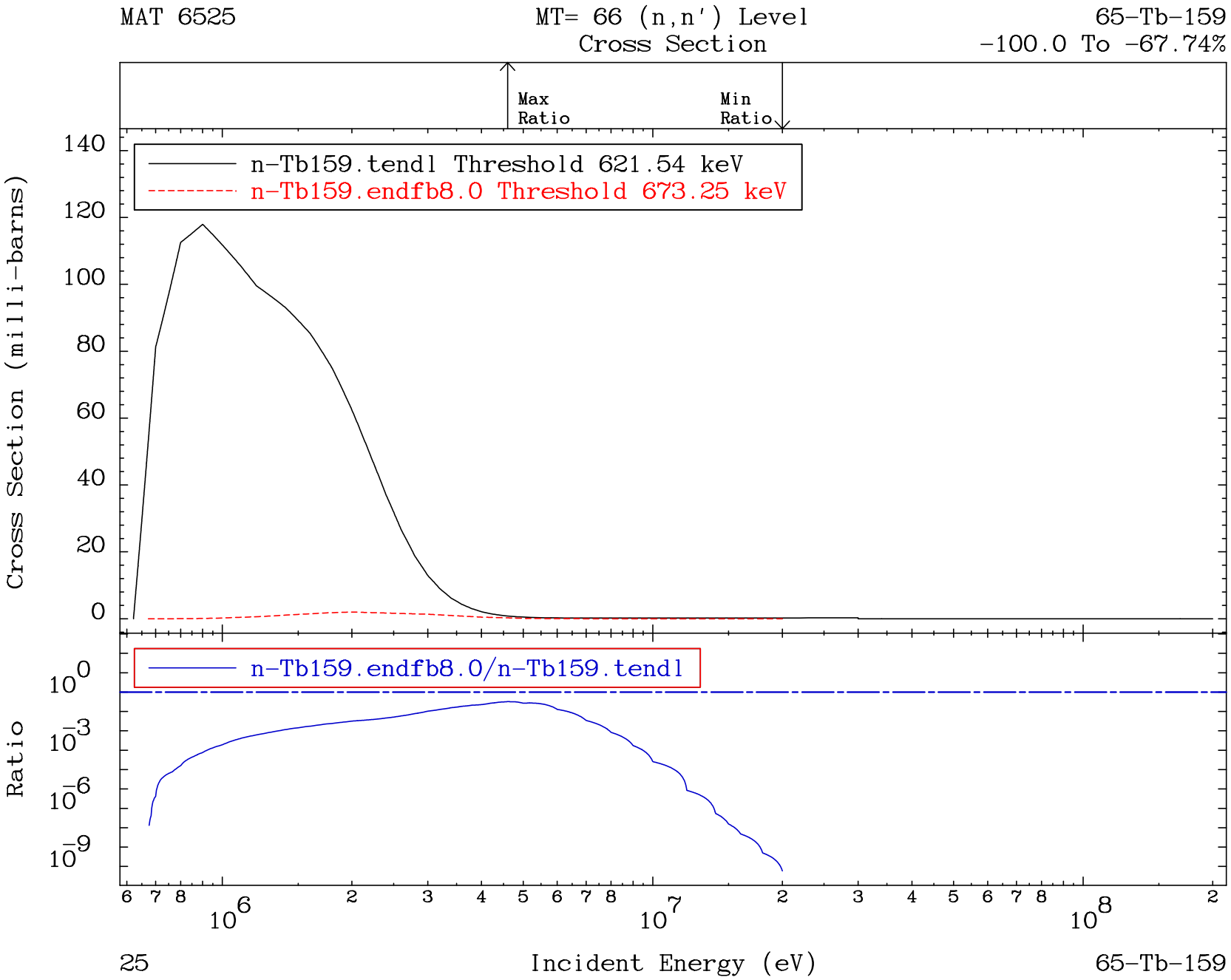

MAT 6525
MT= 61 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 171.0 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 535.38 keV
n-Tb159.endfb8.0 Threshold 537.39 keV
Cross Section (milli-barns)
0
10
20
30
40
50
60
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
65-Tb-159

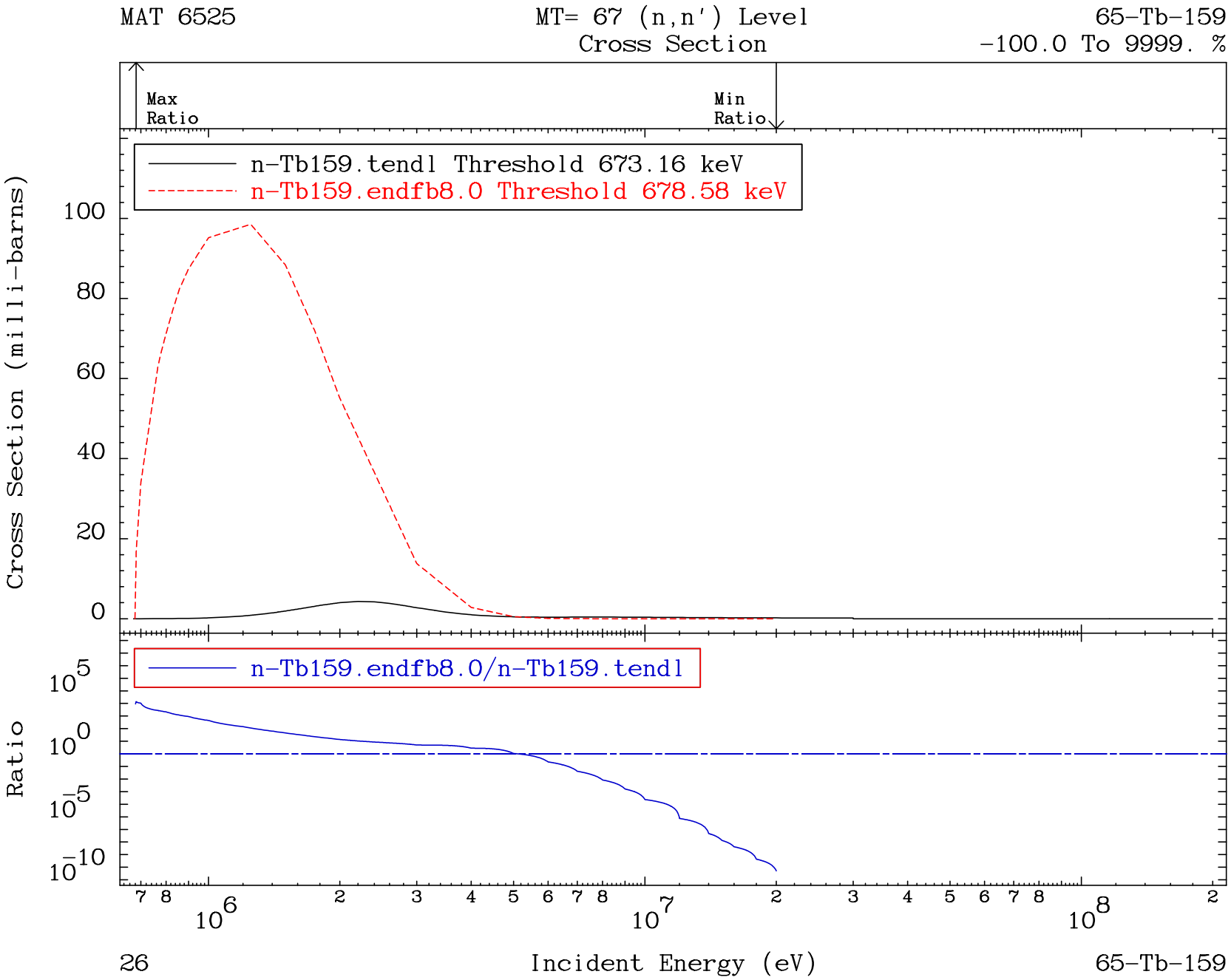

MAT 6525
MT= 62 (n,n') Level
Cross Section
65-Tb-159
-100.0 To -17.33%
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 540.11 keV
n-Tb159.endfb8.0 Threshold 549.16 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
65-Tb-159

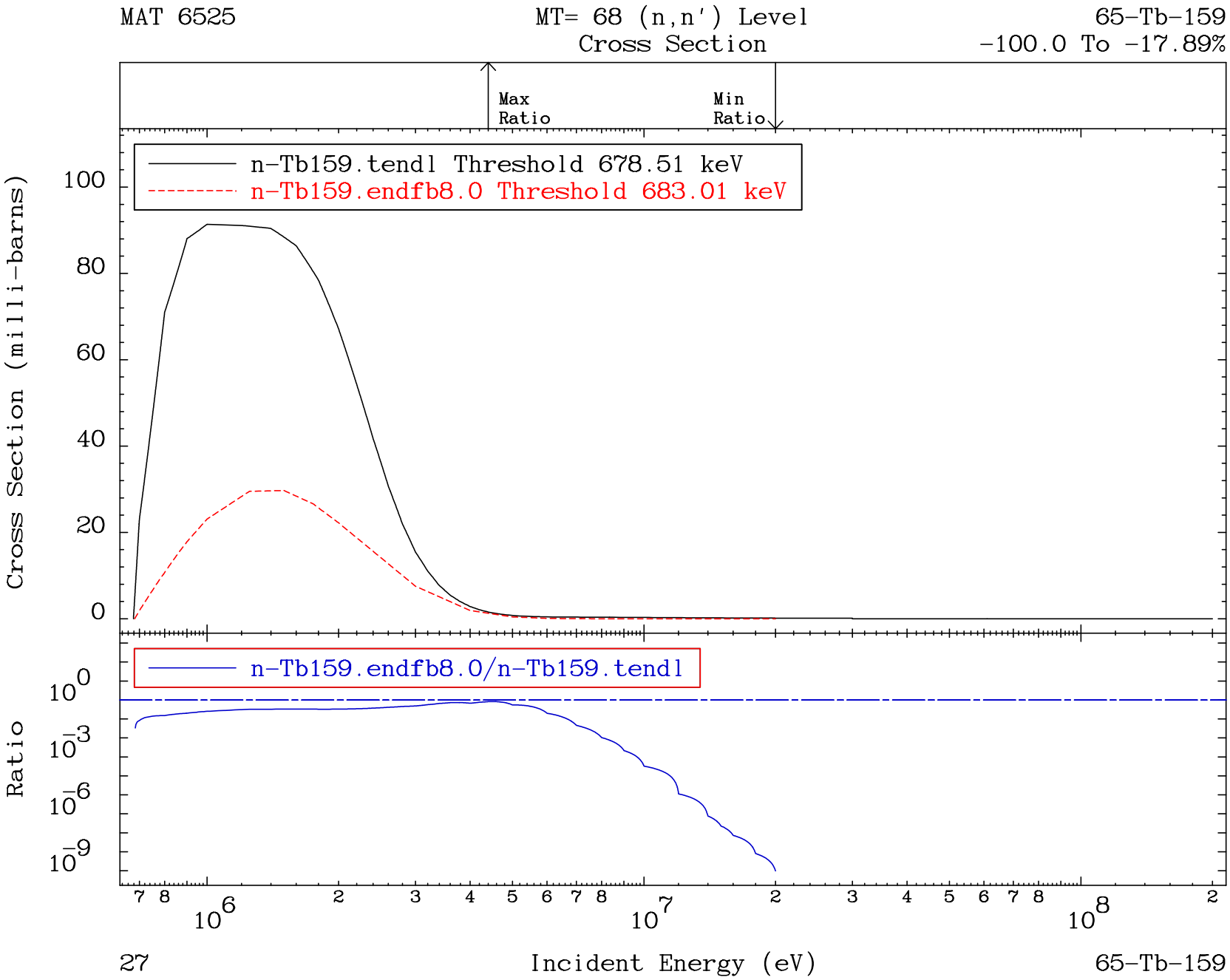

MAT 6525
MT= 63 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 641.8 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 548.56 keV
n-Tb159.endfb8.0 Threshold 551.78 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-4
10^-8
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
65-Tb-159

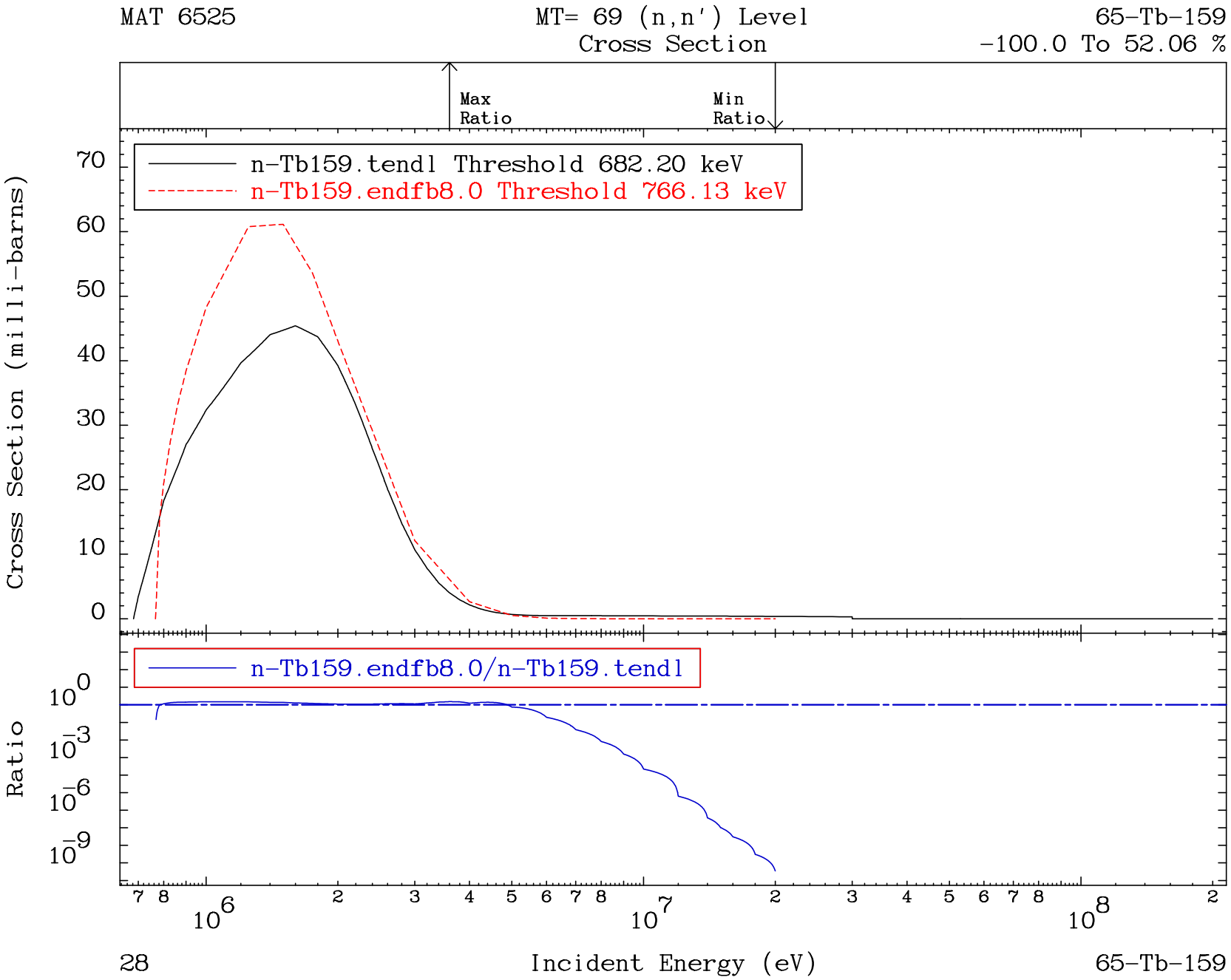

MAT 6525
MT= 64 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 10.49 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 551.08 keV
n-Tb159.endfb8.0 Threshold 584.59 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-4
10^-8
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
65-Tb-159

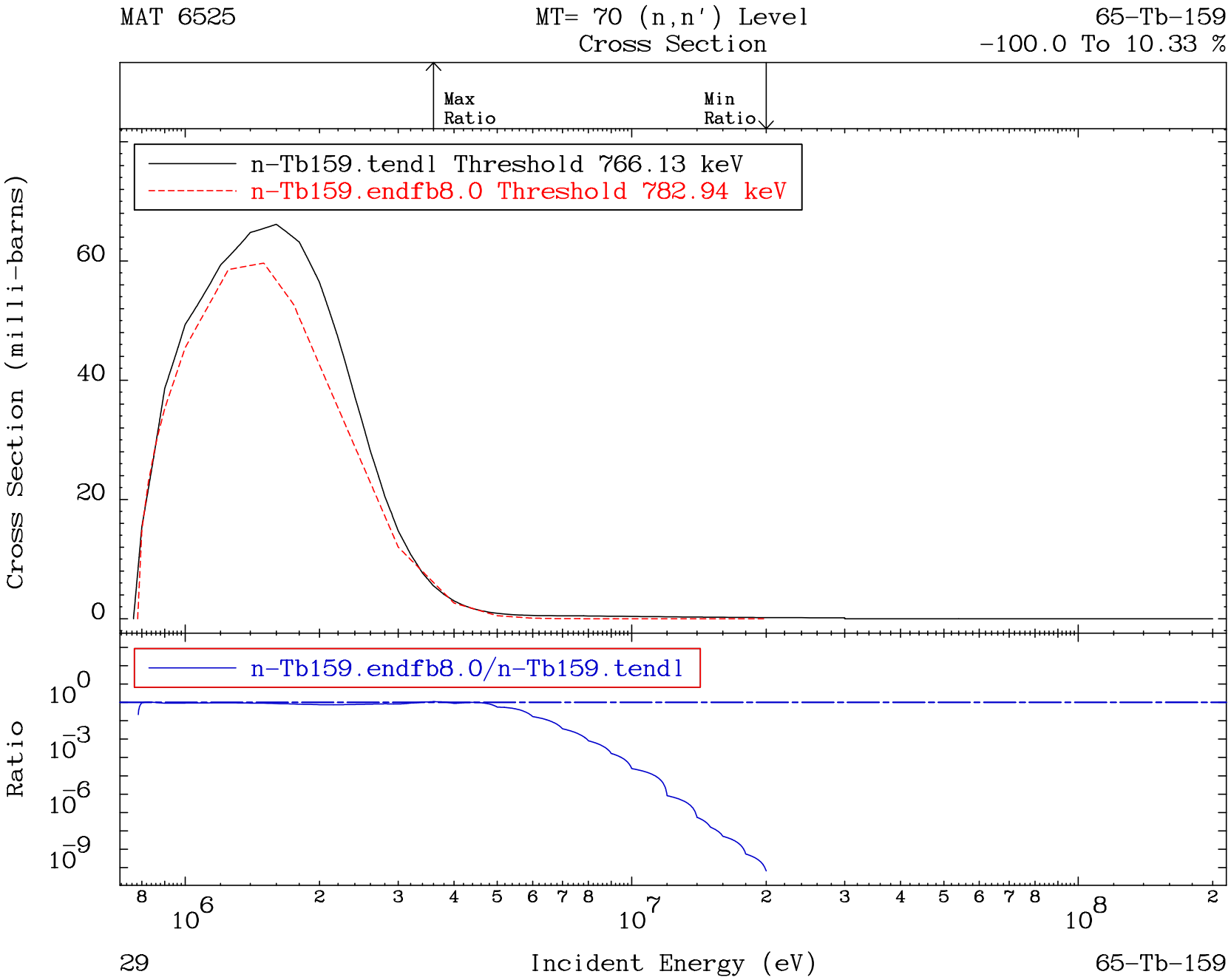

MAT 6525
MT= 65 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 166.9 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 584.49 keV
n-Tb159.endfb8.0 Threshold 621.62 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
65-Tb-159

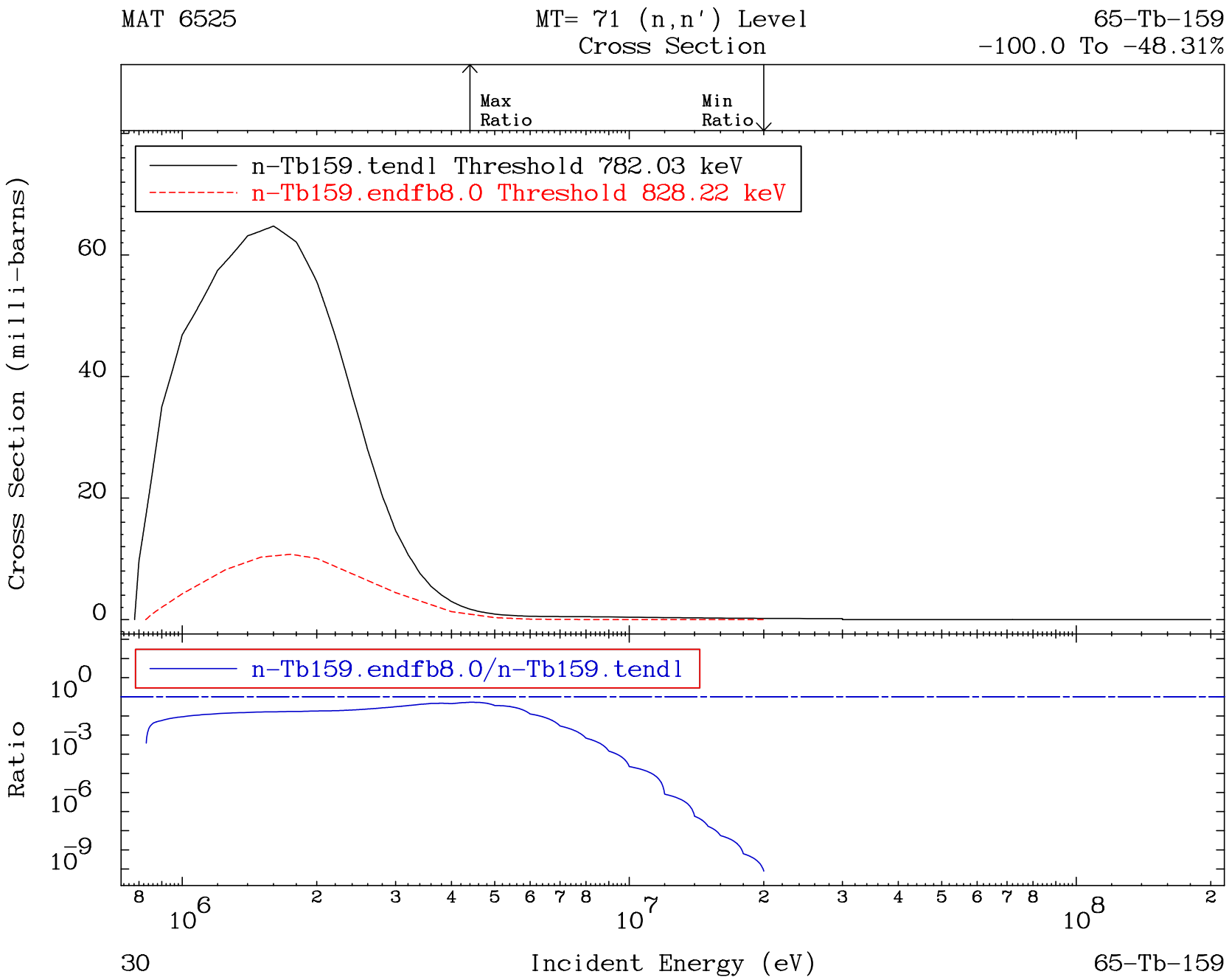

MAT 6525
MT= 66 (n,n') Level
Cross Section
65-Tb-159
-100.0 To -67.74%
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 621.54 keV
n-Tb159.endfb8.0 Threshold 673.25 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
65-Tb-159

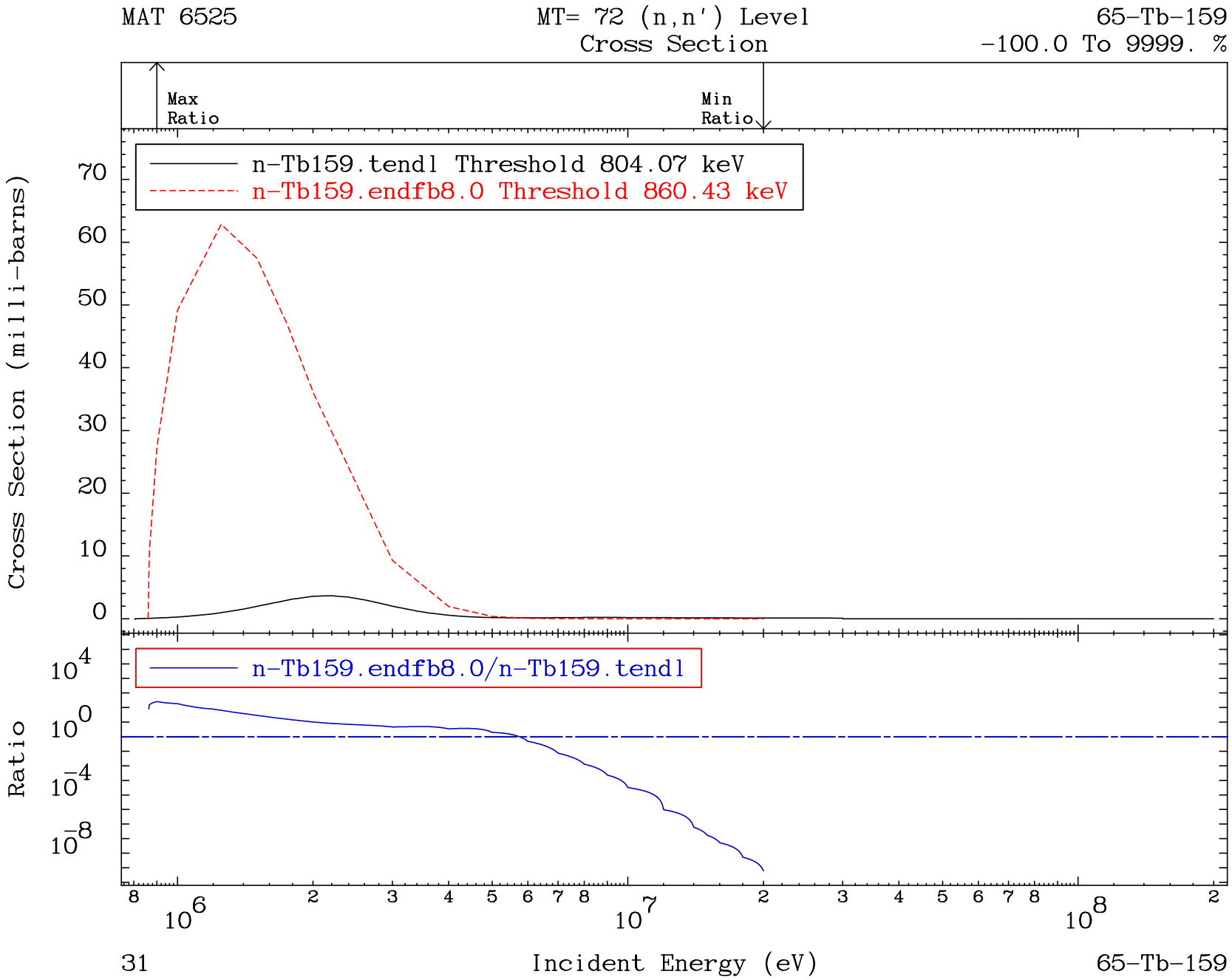

MAT 6525
MT= 67 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 9999. %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 673.16 keV
n-Tb159.endfb8.0 Threshold 678.58 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^5
10^0
10^-5
10^-10
7 8
10^6
2
3
4
5
6
7 8
10^7
2
3
4
5
6
7 8
10^8
2
26
Incident Energy (eV)
65-Tb-159

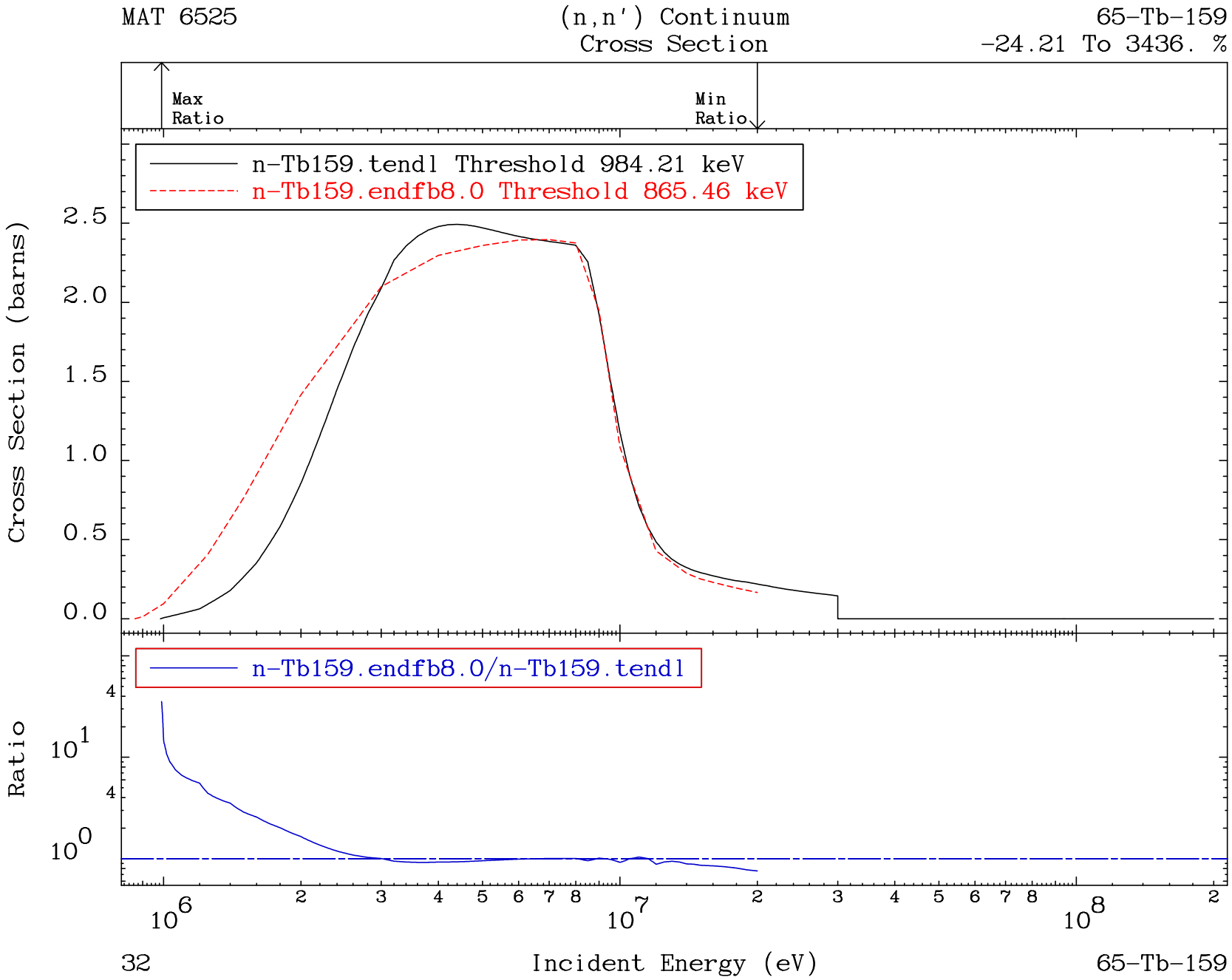

MAT 6525
MT= 68 (n,n') Level
Cross Section
65-Tb-159
-100.0 To -17.89%
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 678.51 keV
n-Tb159.endfb8.0 Threshold 683.01 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
65-Tb-159

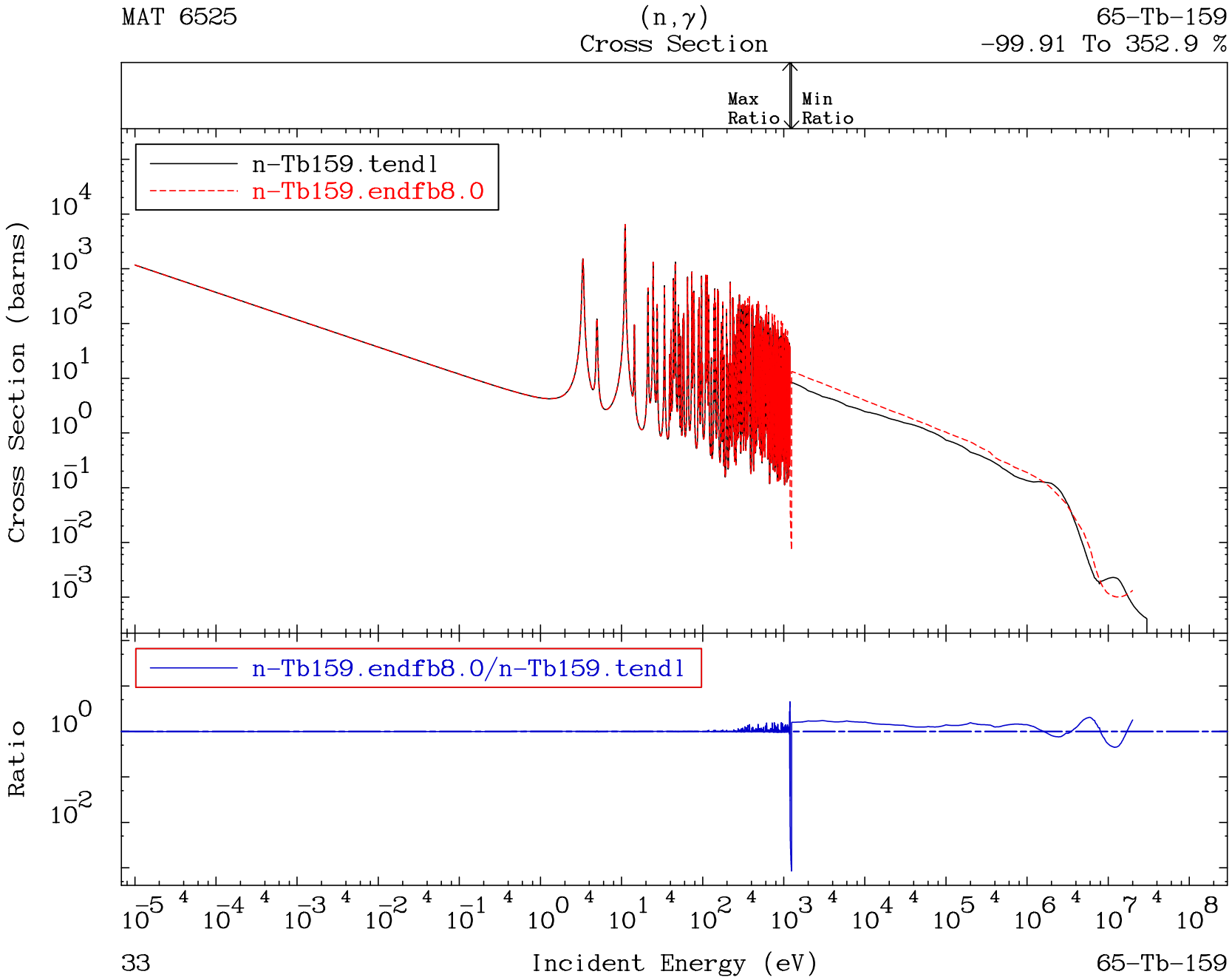

MAT 6525
MT= 69 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 52.06 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 682.20 keV
n-Tb159.endfb8.0 Threshold 766.13 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
28
Incident Energy (eV)
65-Tb-159

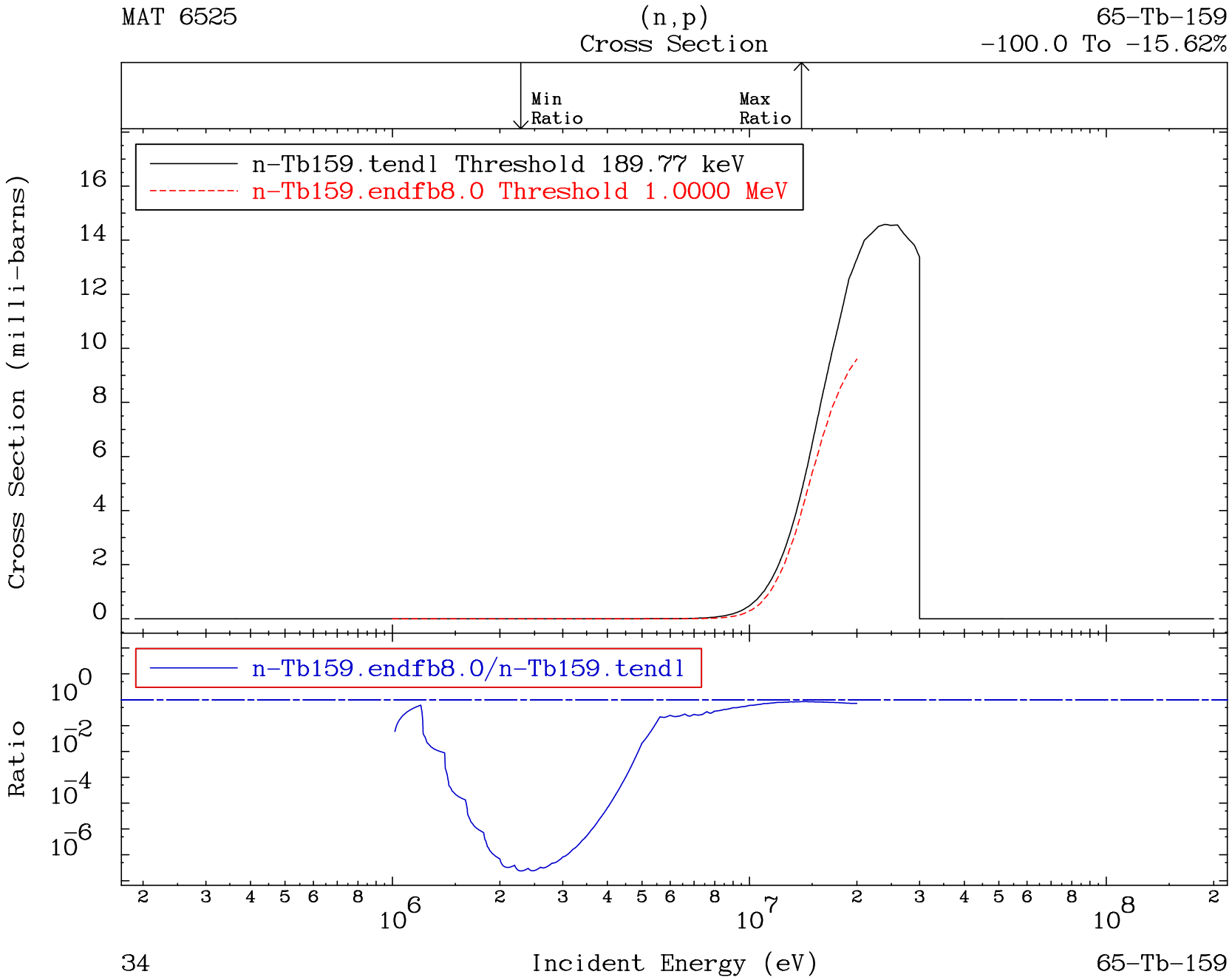

MAT 6525
MT= 70 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 10.33 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 766.13 keV
n-Tb159.endfb8.0 Threshold 782.94 keV
Cross Section (milli-barns)
60
40
20
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
29
Incident Energy (eV)
65-Tb-159

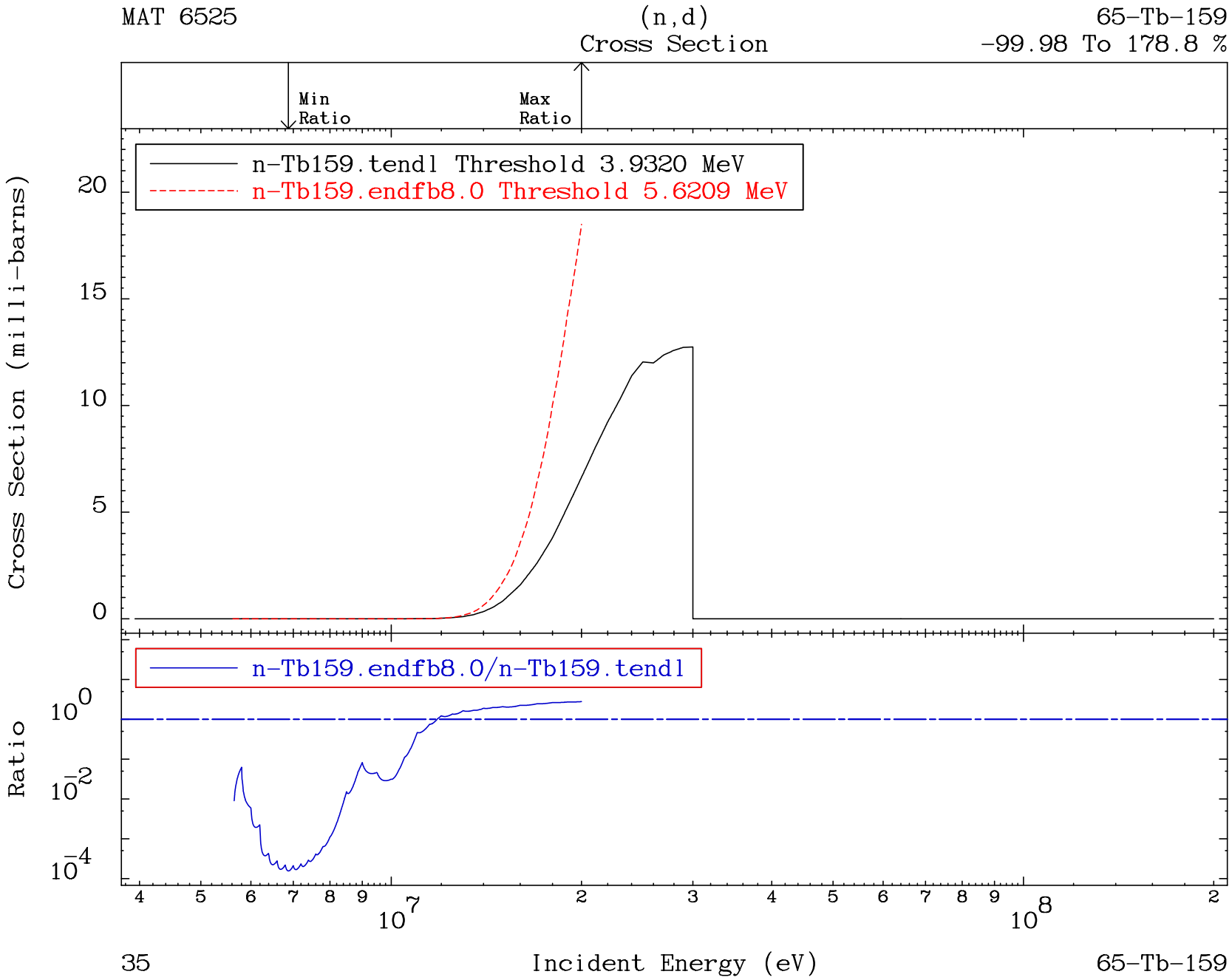

MAT 6525
MT= 71 (n,n') Level
Cross Section
65-Tb-159
-100.0 To -48.31%
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 782.03 keV
n-Tb159.endfb8.0 Threshold 828.22 keV
Cross Section (milli-barns)
60
40
20
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
30
Incident Energy (eV)
65-Tb-159

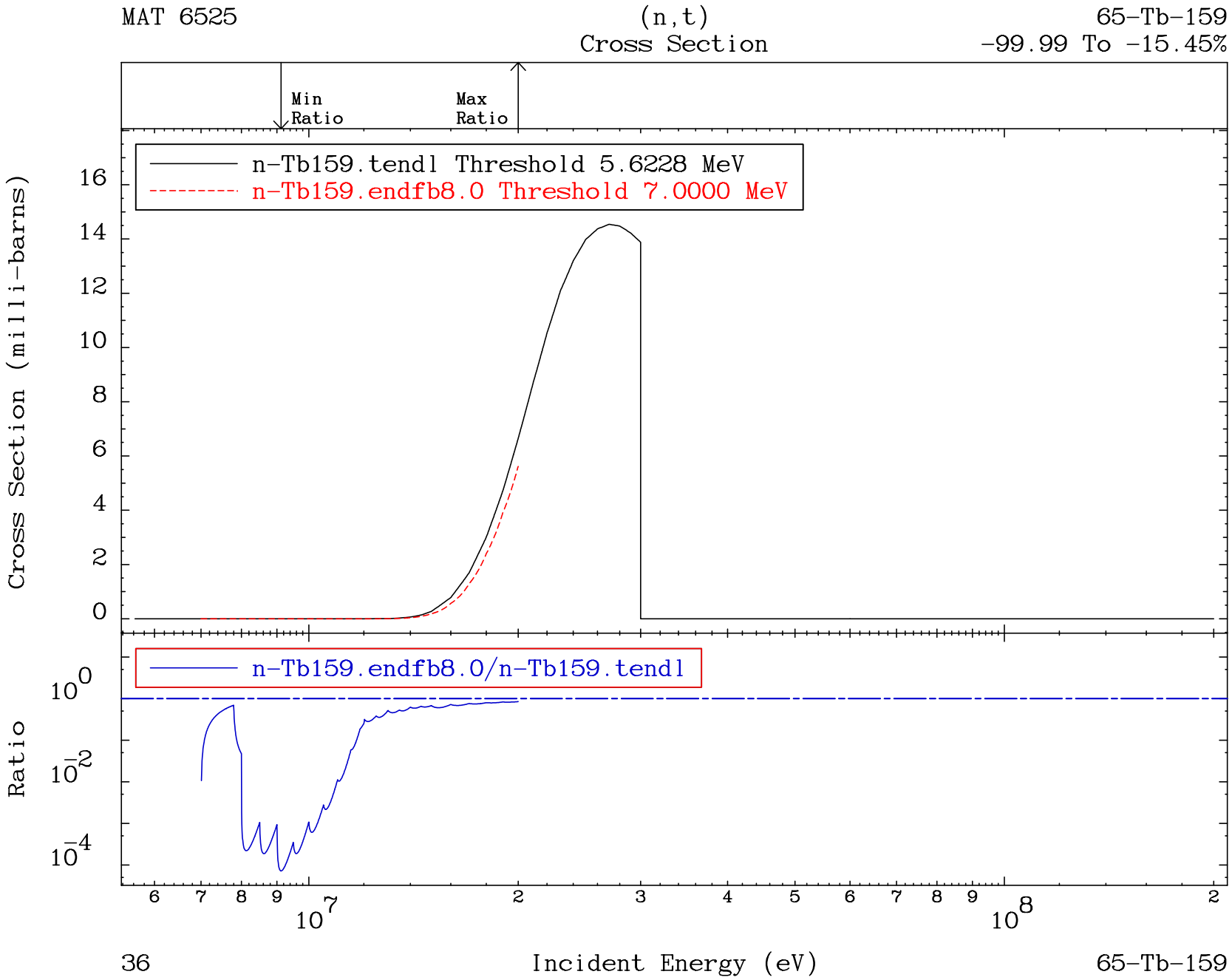

MAT 6525
MT= 72 (n,n') Level
Cross Section
65-Tb-159
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 804.07 keV
n-Tb159.endfb8.0 Threshold 860.43 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^4
10^0
10^-4
10^-8
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
65-Tb-159

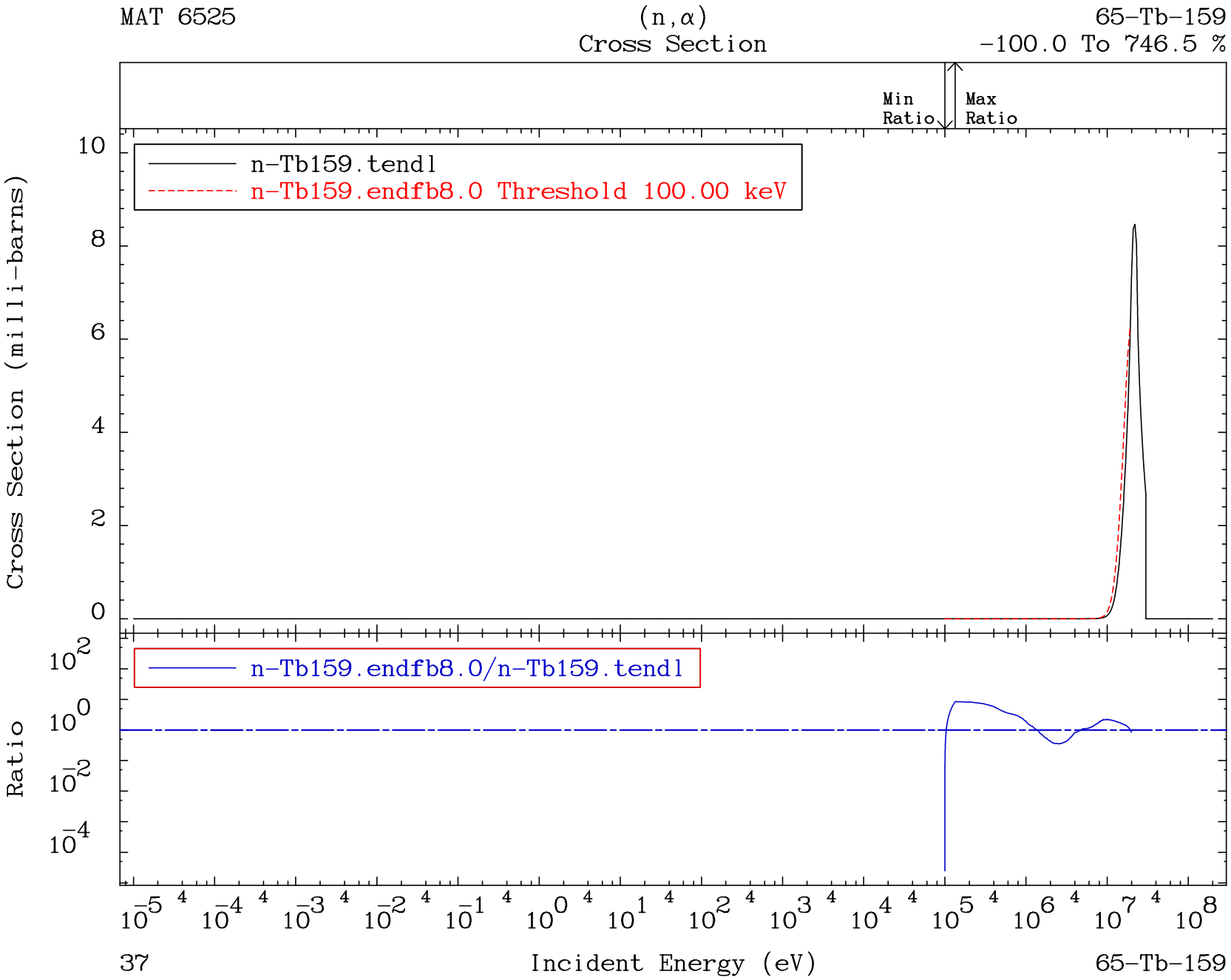

MAT 6525
(n,n') Continuum
Cross Section
65-Tb-159
-24.21 To 3436. %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 984.21 keV
n-Tb159.endfb8.0 Threshold 865.46 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
4
10^1
4
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
32
Incident Energy (eV)
65-Tb-159

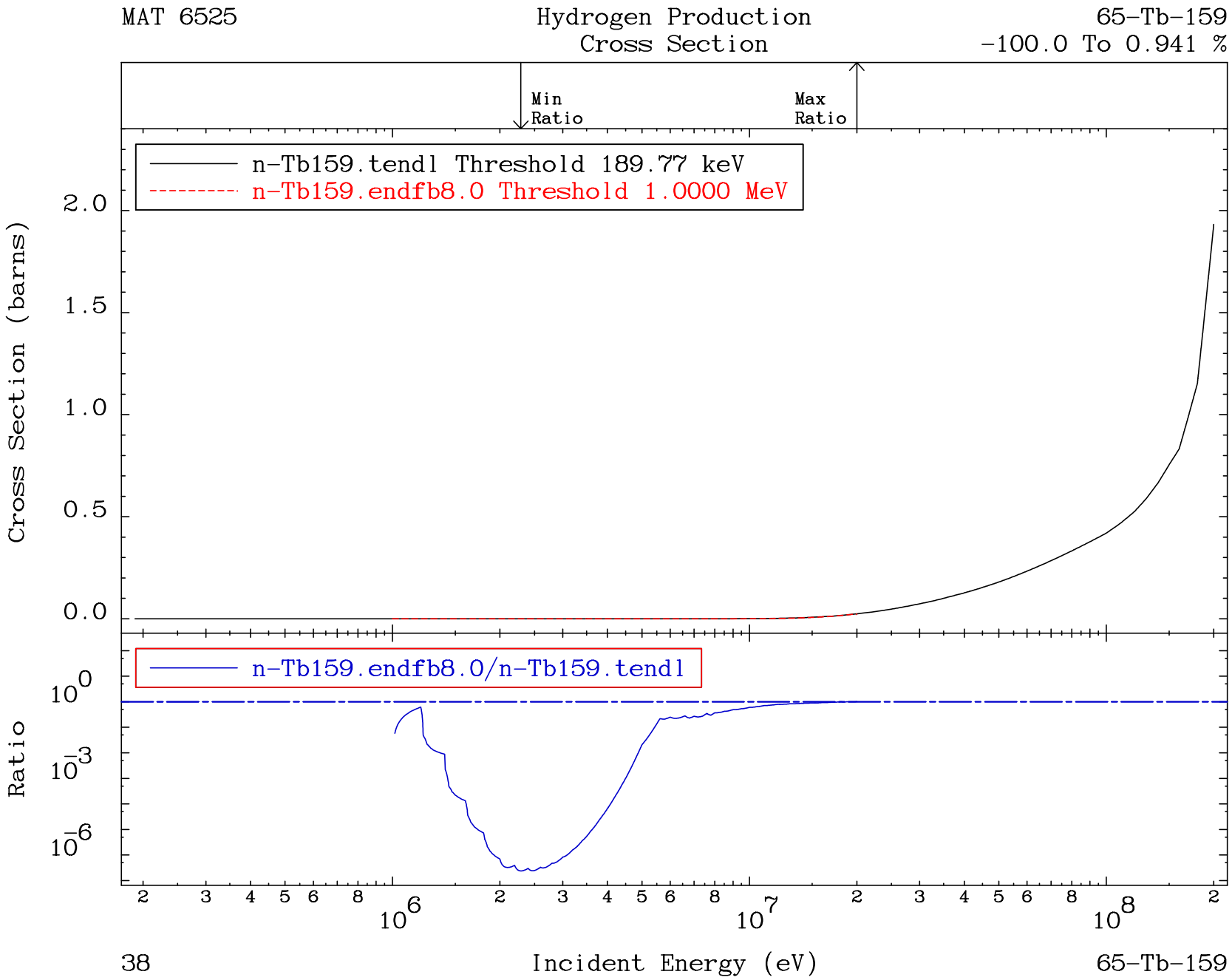

MAT 6525
(n,γ)
Cross Section
65-Tb-159
-99.91 To 352.9 %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.endfb8.0
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
33
Incident Energy (eV)
65-Tb-159

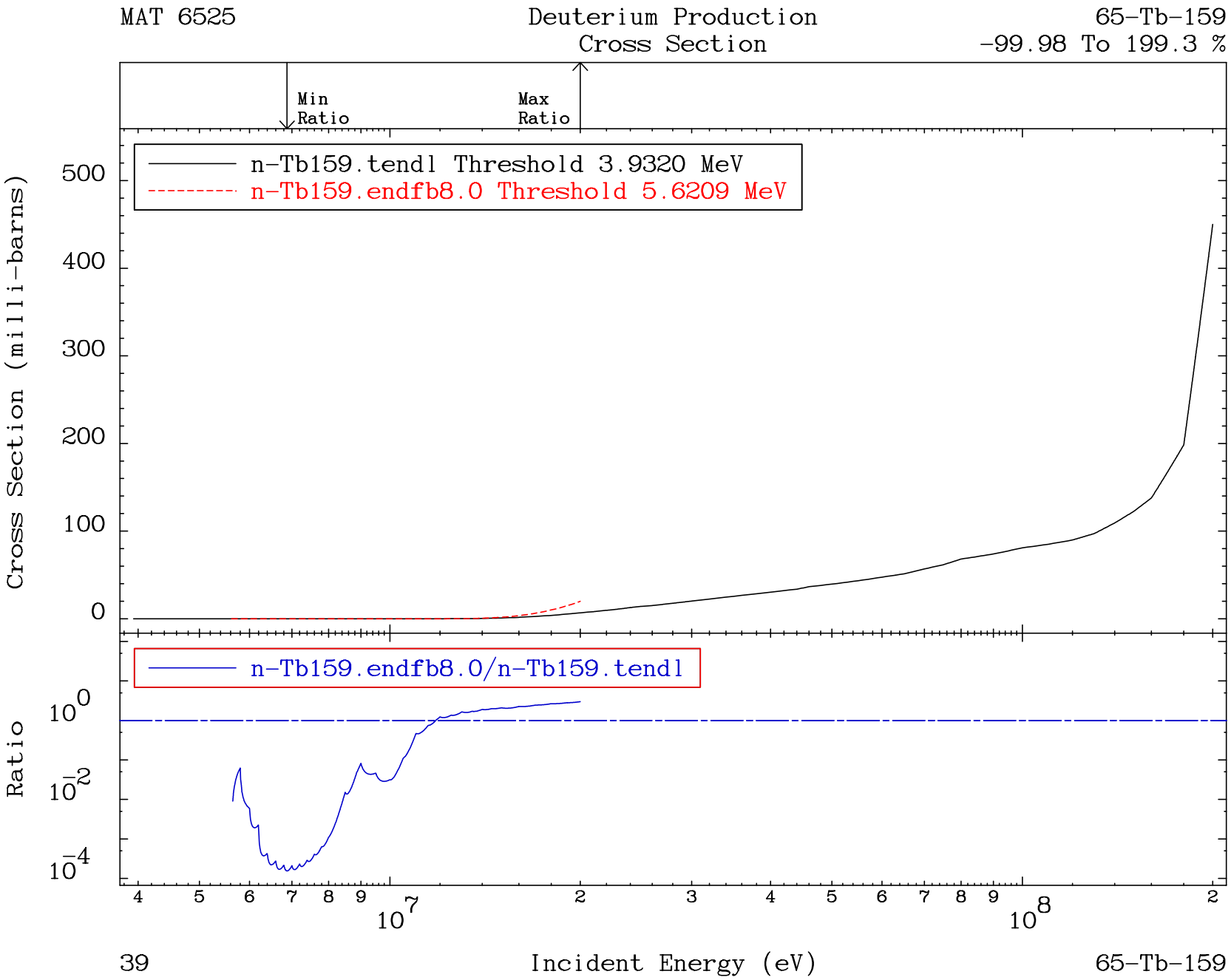

MAT 6525
(n,p)
Cross Section
65-Tb-159
-100.0 To -15.62%
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 189.77 keV
n-Tb159.endfb8.0 Threshold 1.0000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^{0}
10^{-2}
10^{-4}
10^{-6}
2 3 4 5 6 8 10^{6} 2 3 4 5 6 8 10^{7} 2 3 4 5 6 8 10^{8} 2
34
Incident Energy (eV)
65-Tb-159

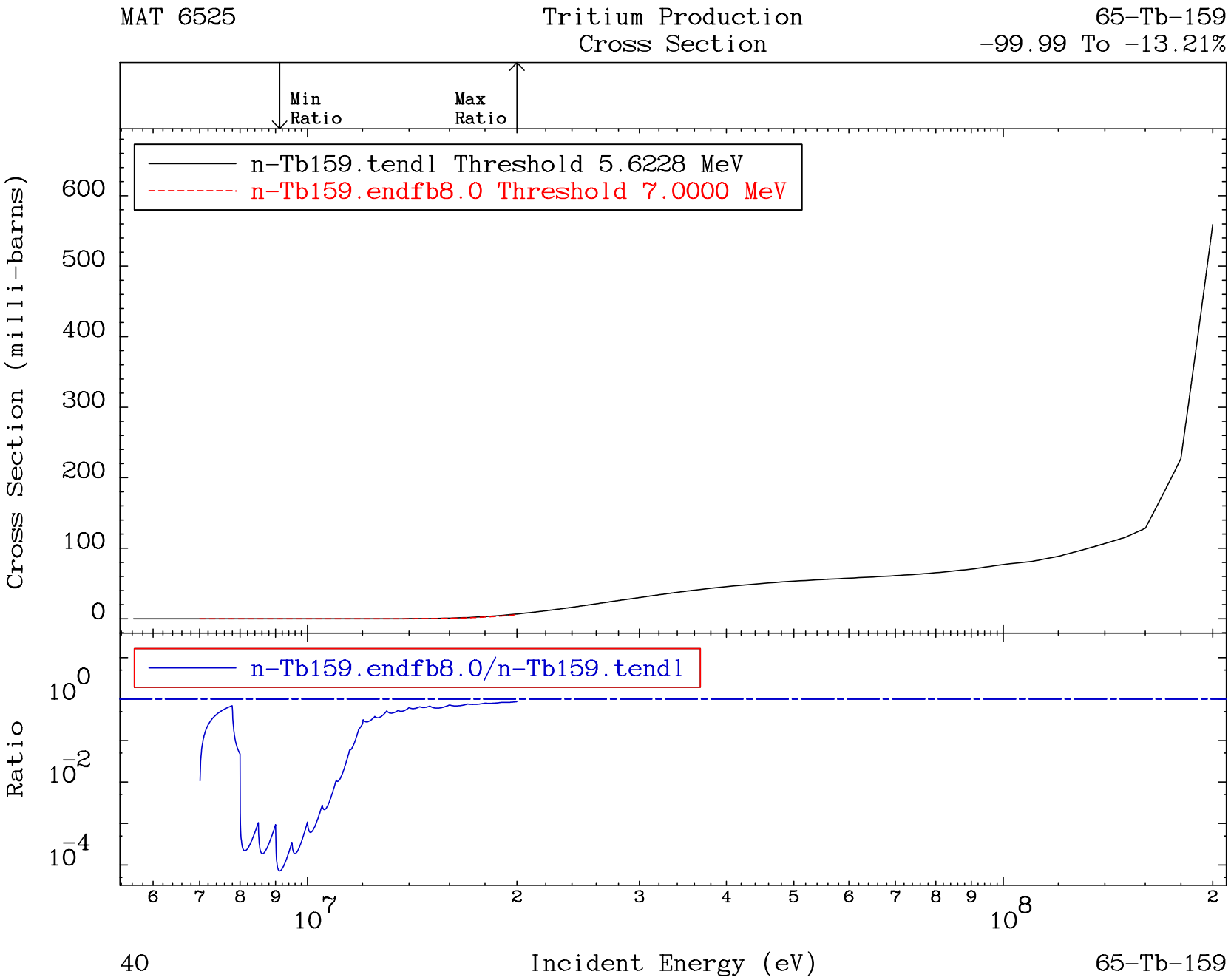

MAT 6525
(n,d)
Cross Section
65-Tb-159
-99.98 To 178.8 %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 3.9320 MeV
n-Tb159.endfb8.0 Threshold 5.6209 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-2
10^-4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
65-Tb-159

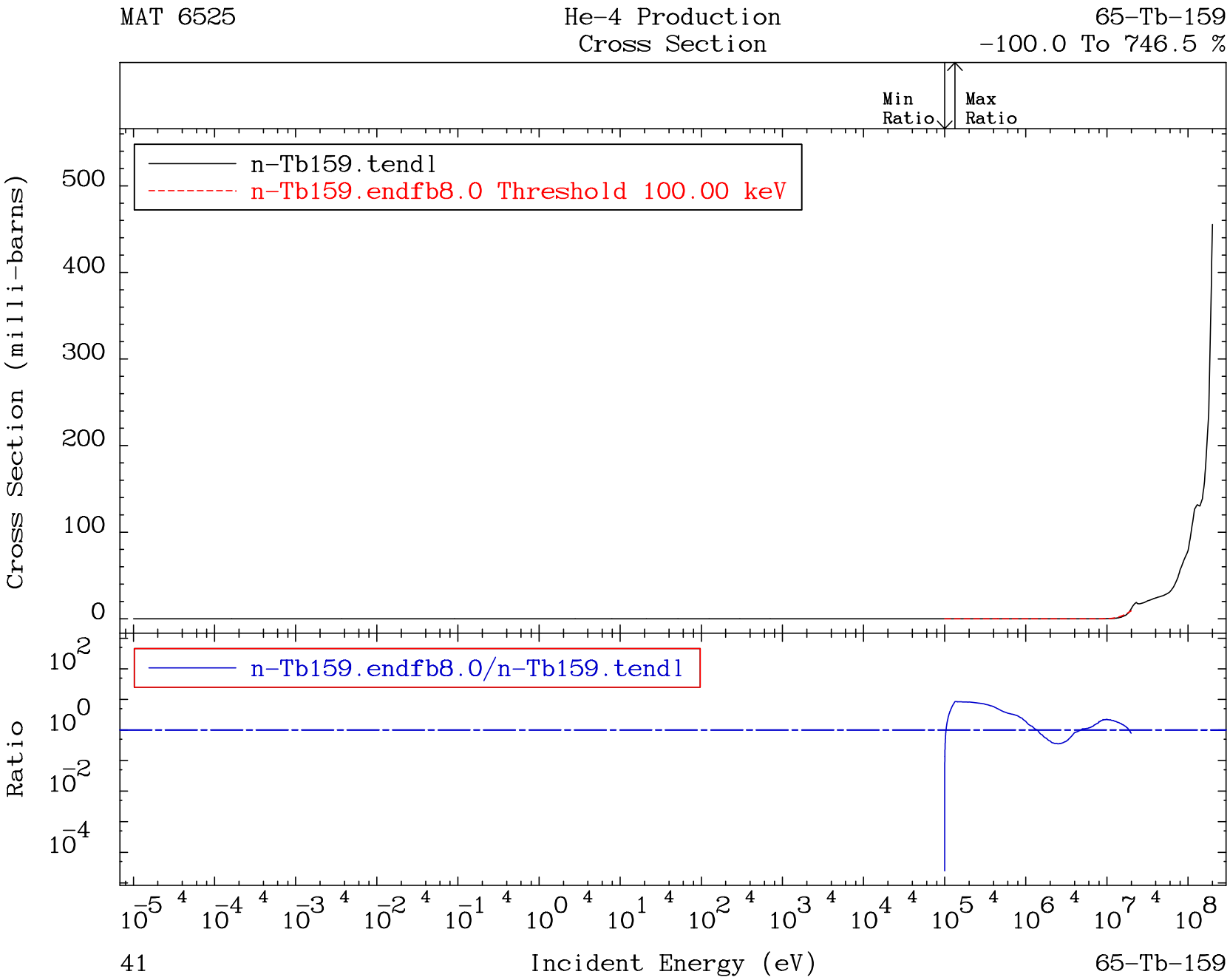

MAT 6525
(n,t)
Cross Section
65-Tb-159
-99.99 To -15.45%
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 5.6228 MeV
n-Tb159.endfb8.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^{0}
10^{-2}
10^{-4}
6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
36
Incident Energy (eV)
65-Tb-159

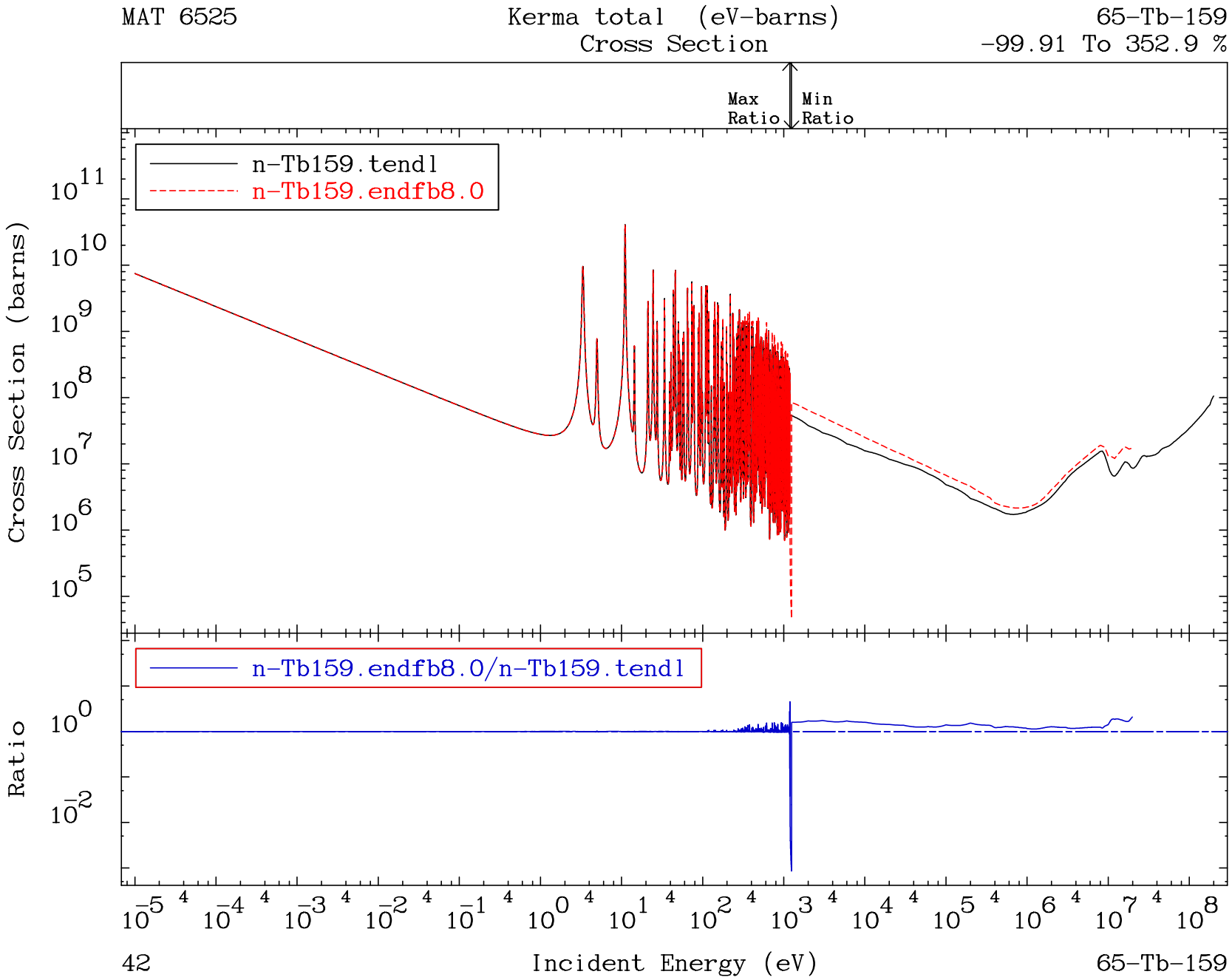

MAT 6525
(n,α)
Cross Section
65-Tb-159
-100.0 To 746.5 %
Min Ratio
Max Ratio
n-Tb159.tendl
n-Tb159.endfb8.0 Threshold 100.00 keV
Cross Section (milli-barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
Incident Energy (eV)
37
65-Tb-159

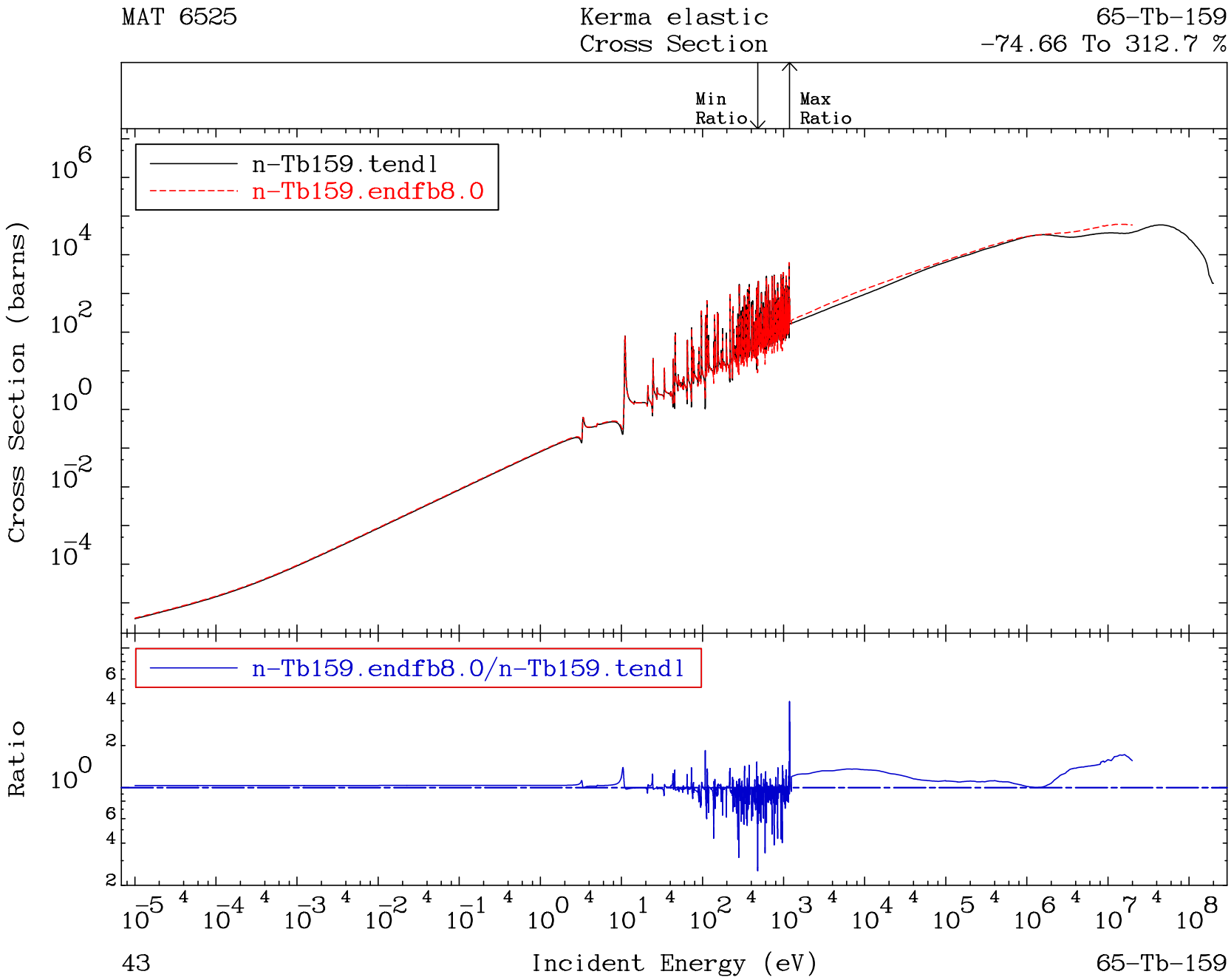

MAT 6525
Hydrogen Production
Cross Section
65-Tb-159
-100.0 To 0.941 %
Min
Ratio
Max
Ratio
n-Tb159.tendl Threshold 189.77 keV
n-Tb159.endfb8.0 Threshold 1.0000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
38
Incident Energy (eV)
65-Tb-159

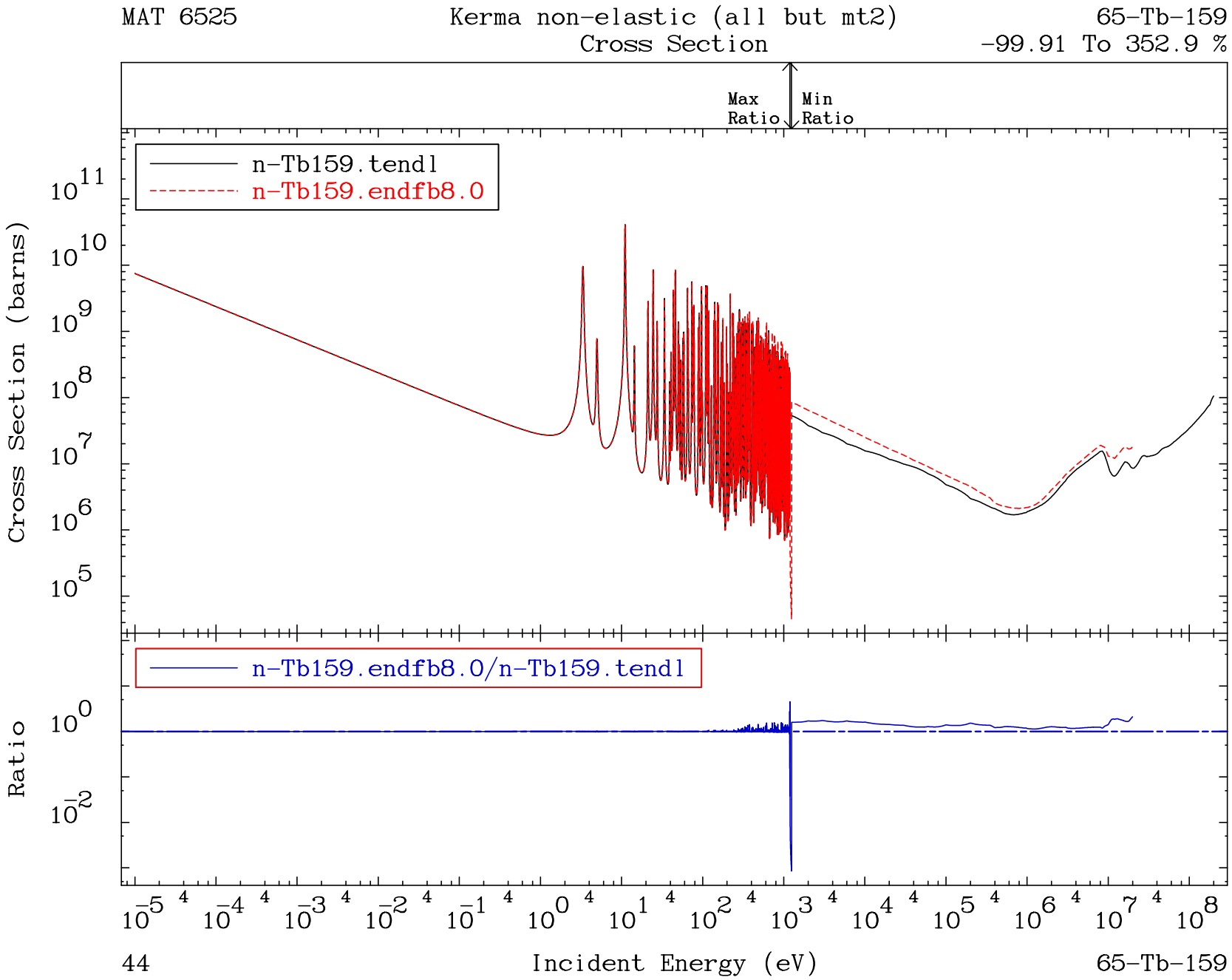

MAT 6525
Deuterium Production
Cross Section
65-Tb-159
-99.98 To 199.3 %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 3.9320 MeV
n-Tb159.endfb8.0 Threshold 5.6209 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-2
10^-4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
65-Tb-159

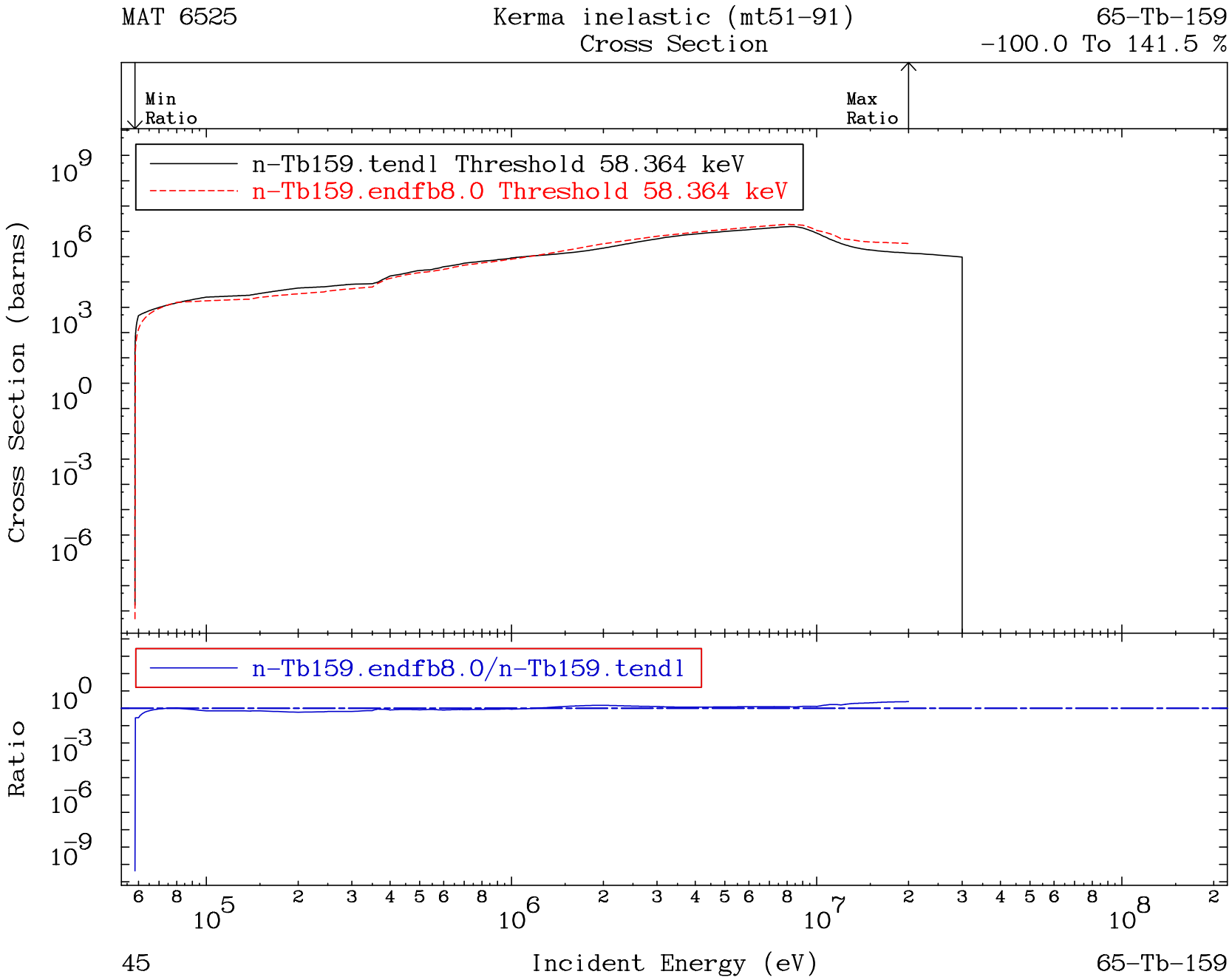

MAT 6525
Tritium Production
Cross Section
65-Tb-159
-99.99 To -13.21%
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 5.6228 MeV
n-Tb159.endfb8.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-2
10^-4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
65-Tb-159

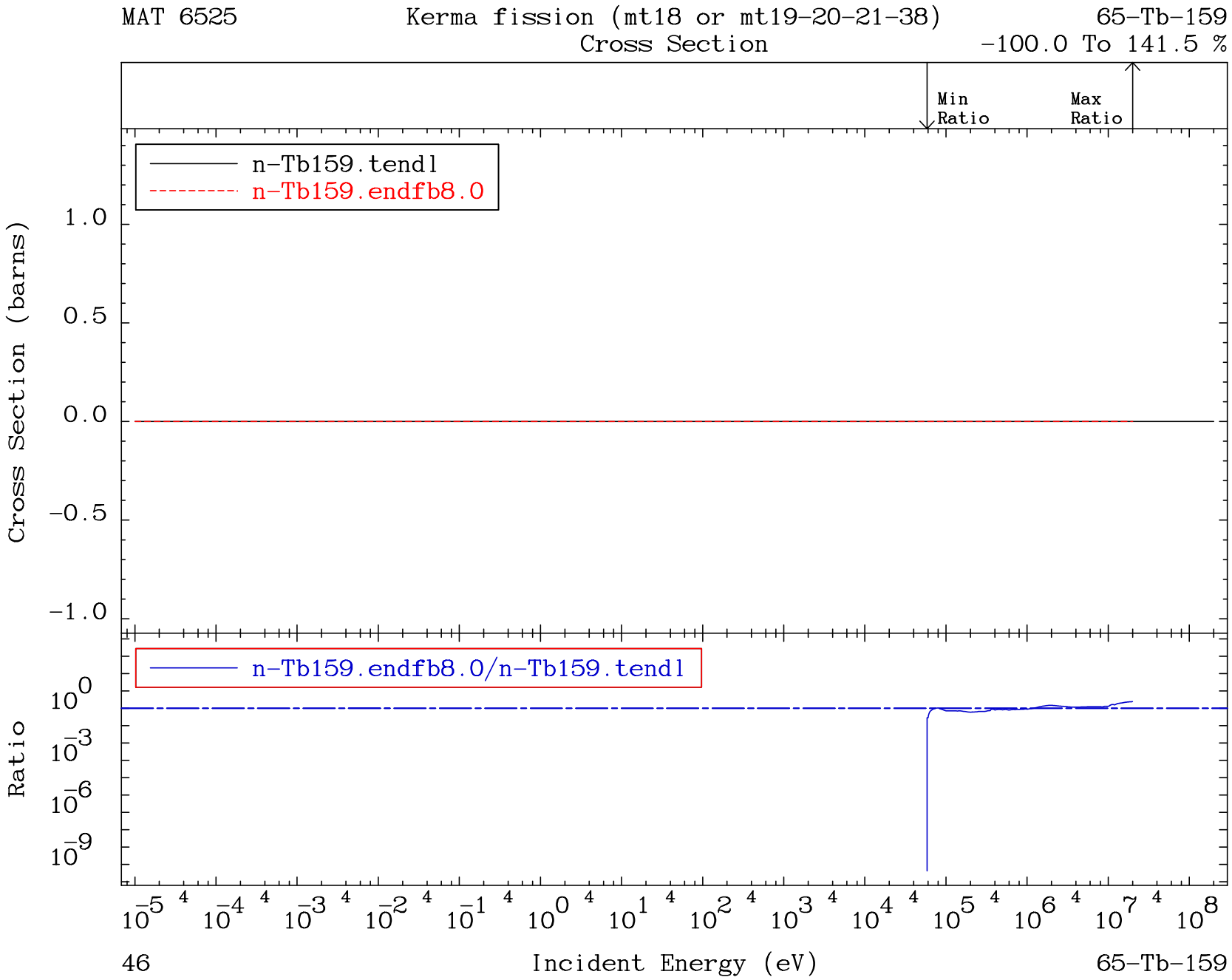

MAT 6525
He-4 Production
Cross Section
65-Tb-159
-100.0 To 746.5 %
Min Ratio
Max Ratio
n-Tb159.tendl
n-Tb159.endfb8.0 Threshold 100.00 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^2
10^0
10^-2
10^-4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
41
Incident Energy (eV)
65-Tb-159

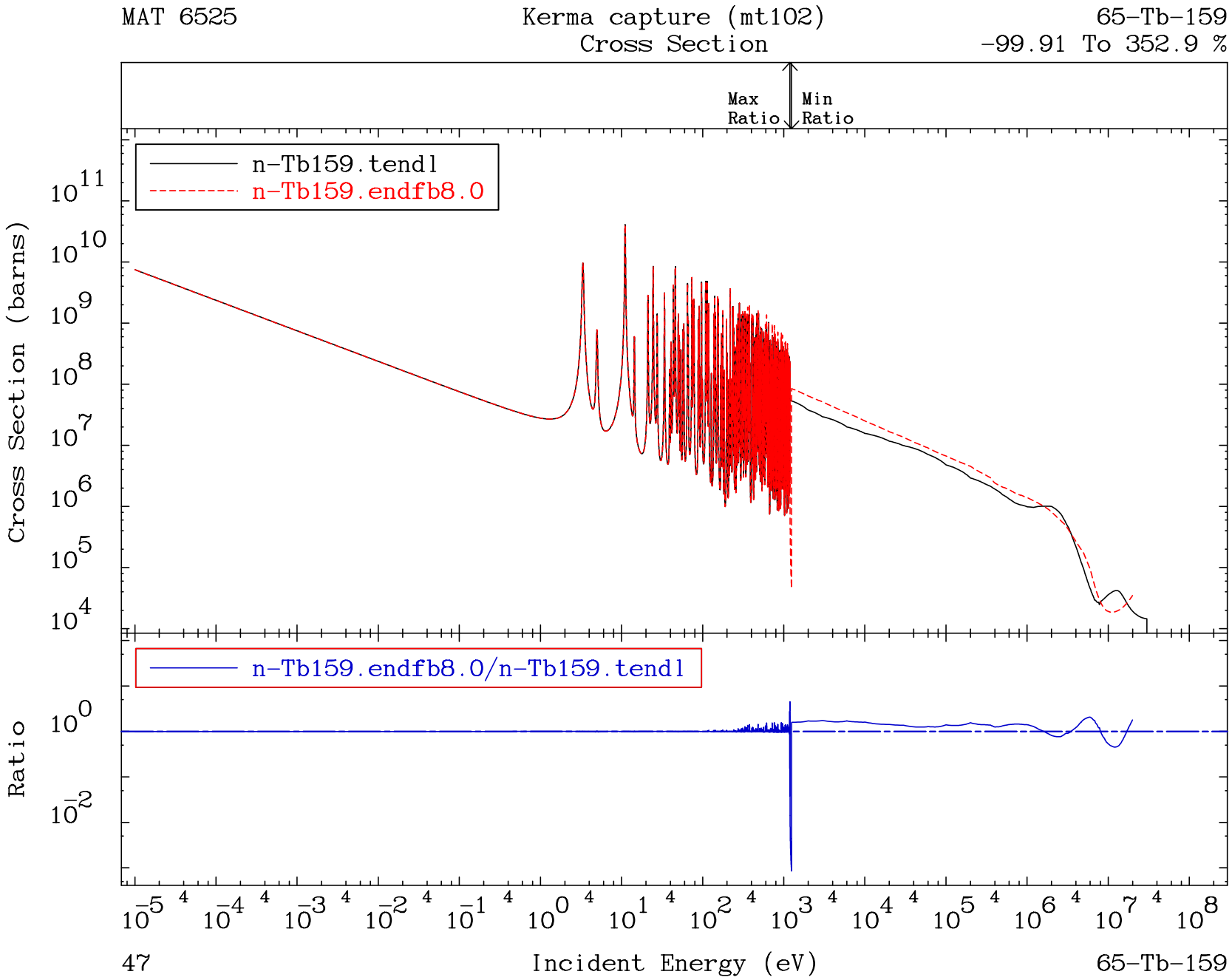

MAT 6525
Kerma total (eV-barns)
Cross Section
65-Tb-159
-99.91 To 352.9 %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.endfb8.0
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
Incident Energy (eV)
42
65-Tb-159

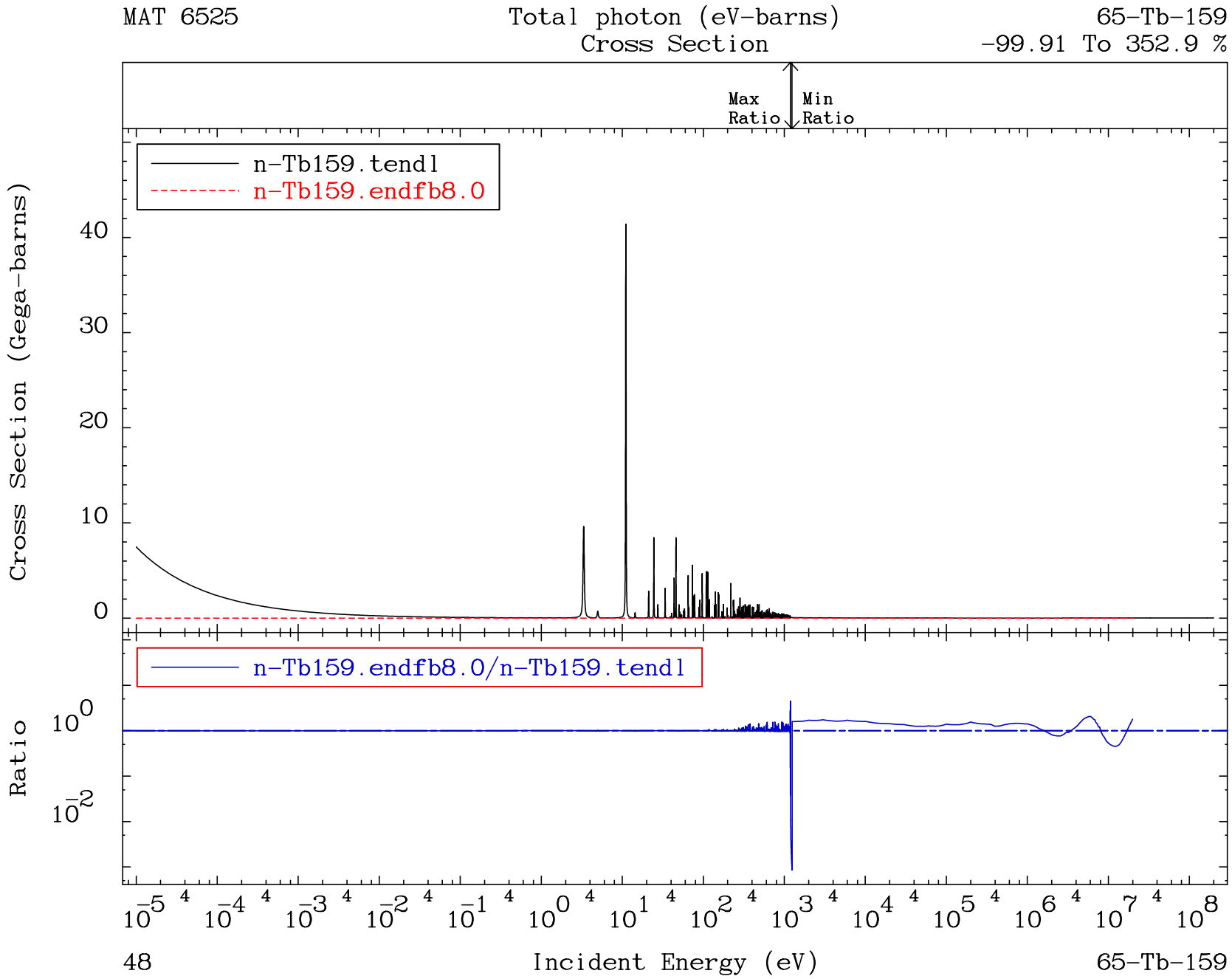

MAT 6525
Kerma elastic
Cross Section
65-Tb-159
-74.66 To 312.7 %
Min Ratio
Max Ratio
n-Tb159.tendl
n-Tb159.endfb8.0
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
Incident Energy (eV)
43
65-Tb-159

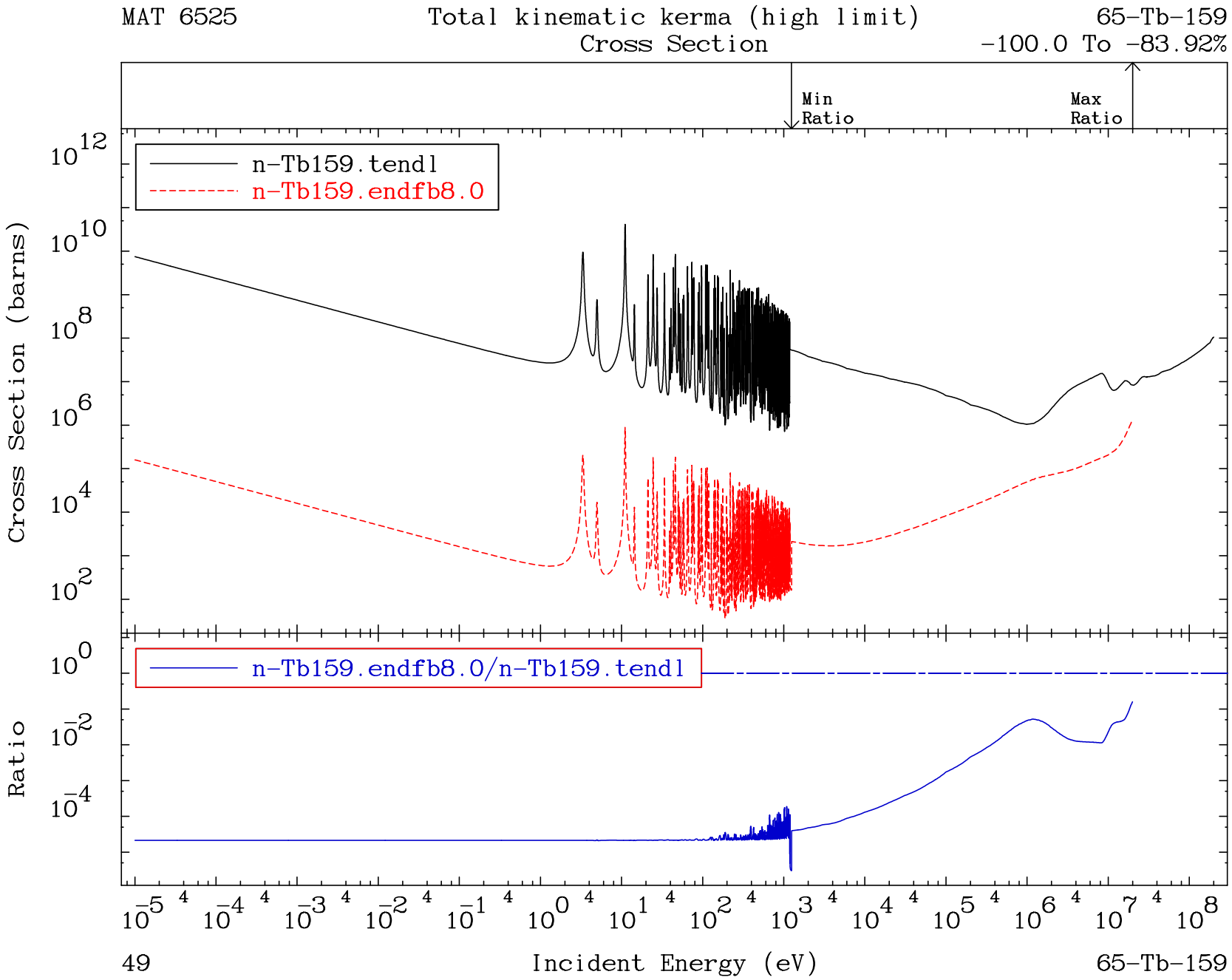

MAT 6525
Kerma non-elastic (all but mt2)
Cross Section
65-Tb-159
-99.91 To 352.9 %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.endfb8.0
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
Incident Energy (eV)
44
65-Tb-159

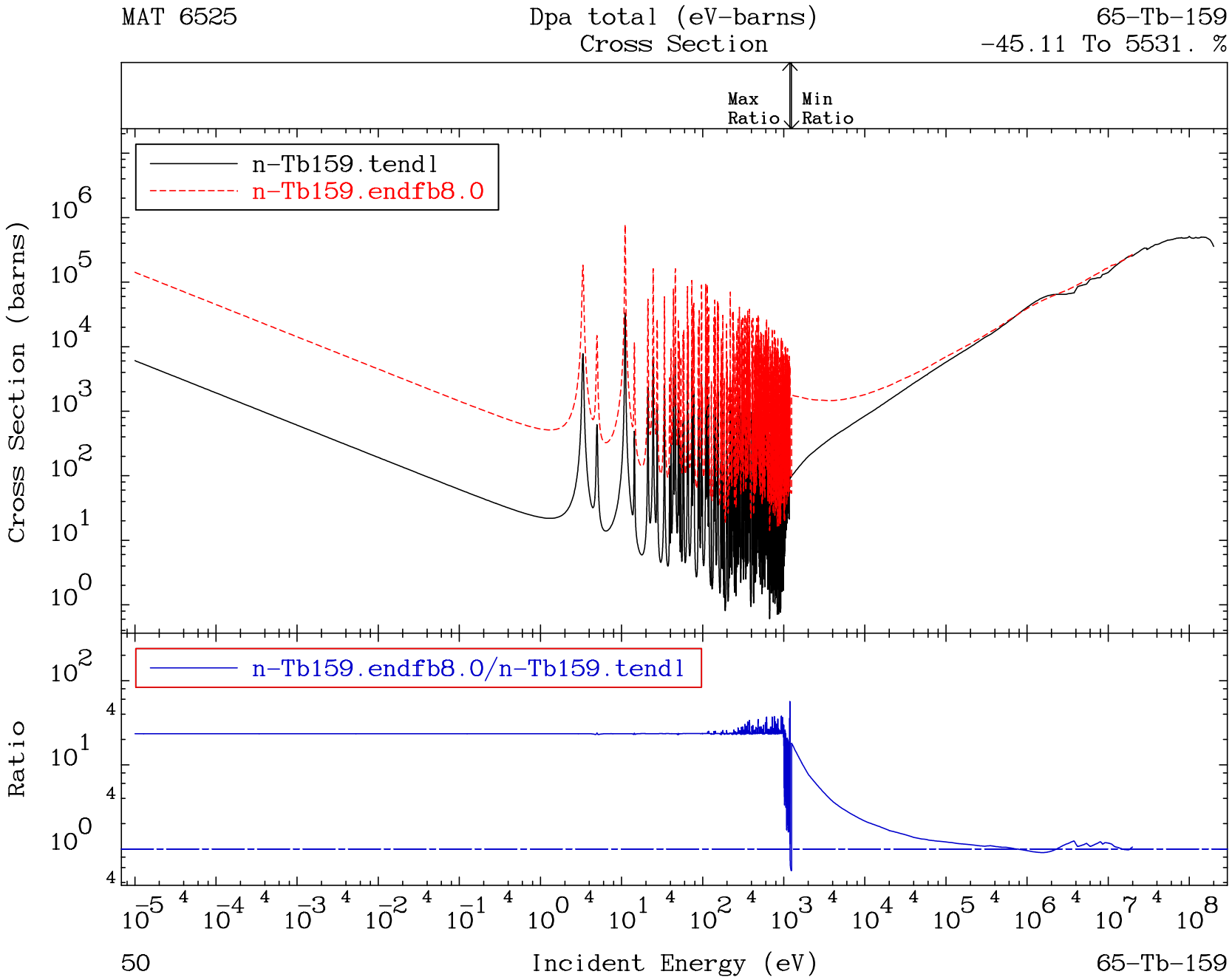

MAT 6525
Kerma inelastic (mt51-91)
Cross Section
65-Tb-159
-100.0 To 141.5 %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 58.364 keV
n-Tb159.endfb8.0 Threshold 58.364 keV
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
Incident Energy (eV)
45
65-Tb-159

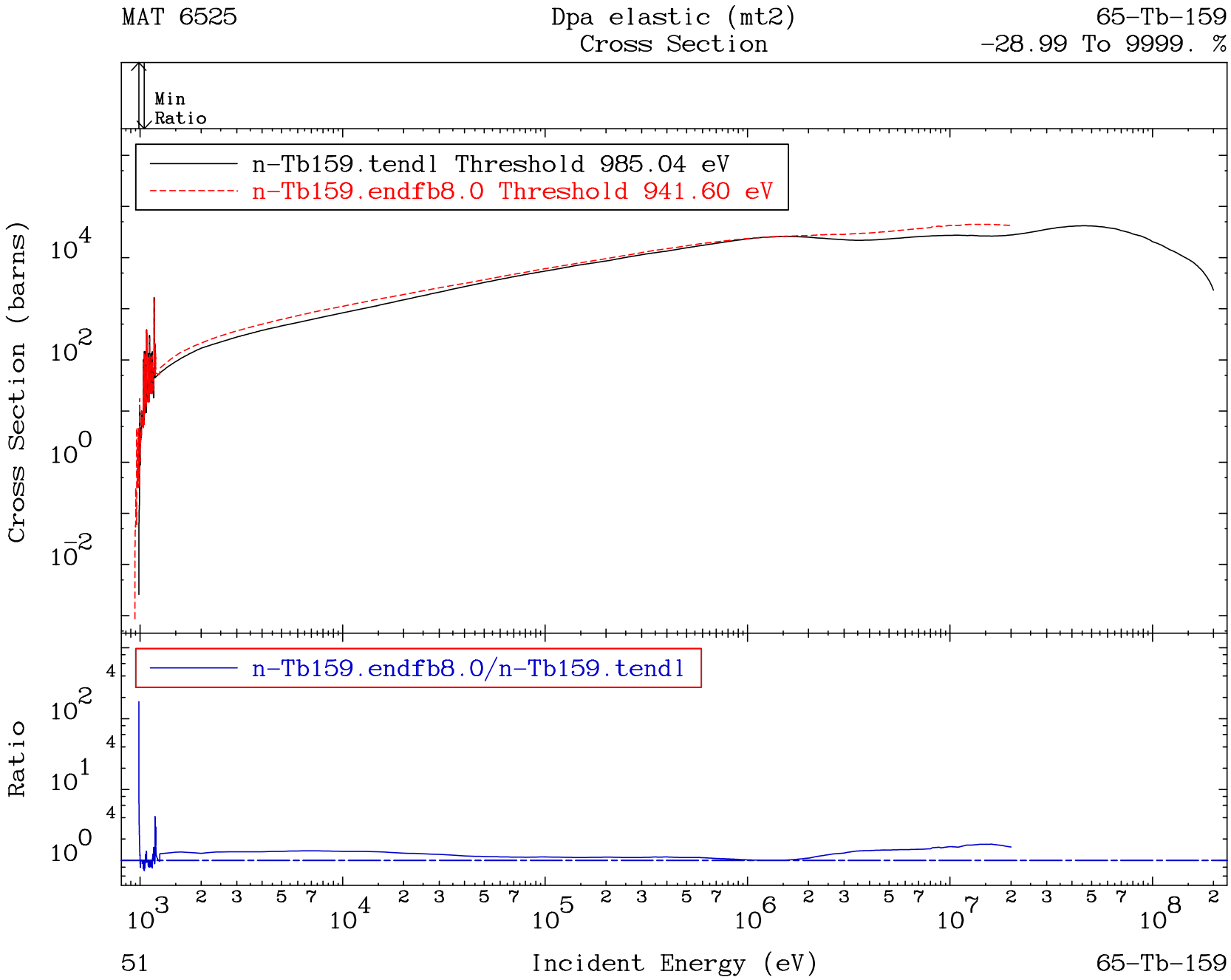

MAT 6525
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
65-Tb-159
-100.0 To 141.5 %
Min Ratio
Max Ratio
n-Tb159.tendl
n-Tb159.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-3
10^-6
10^-9
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
46
Incident Energy (eV)
65-Tb-159

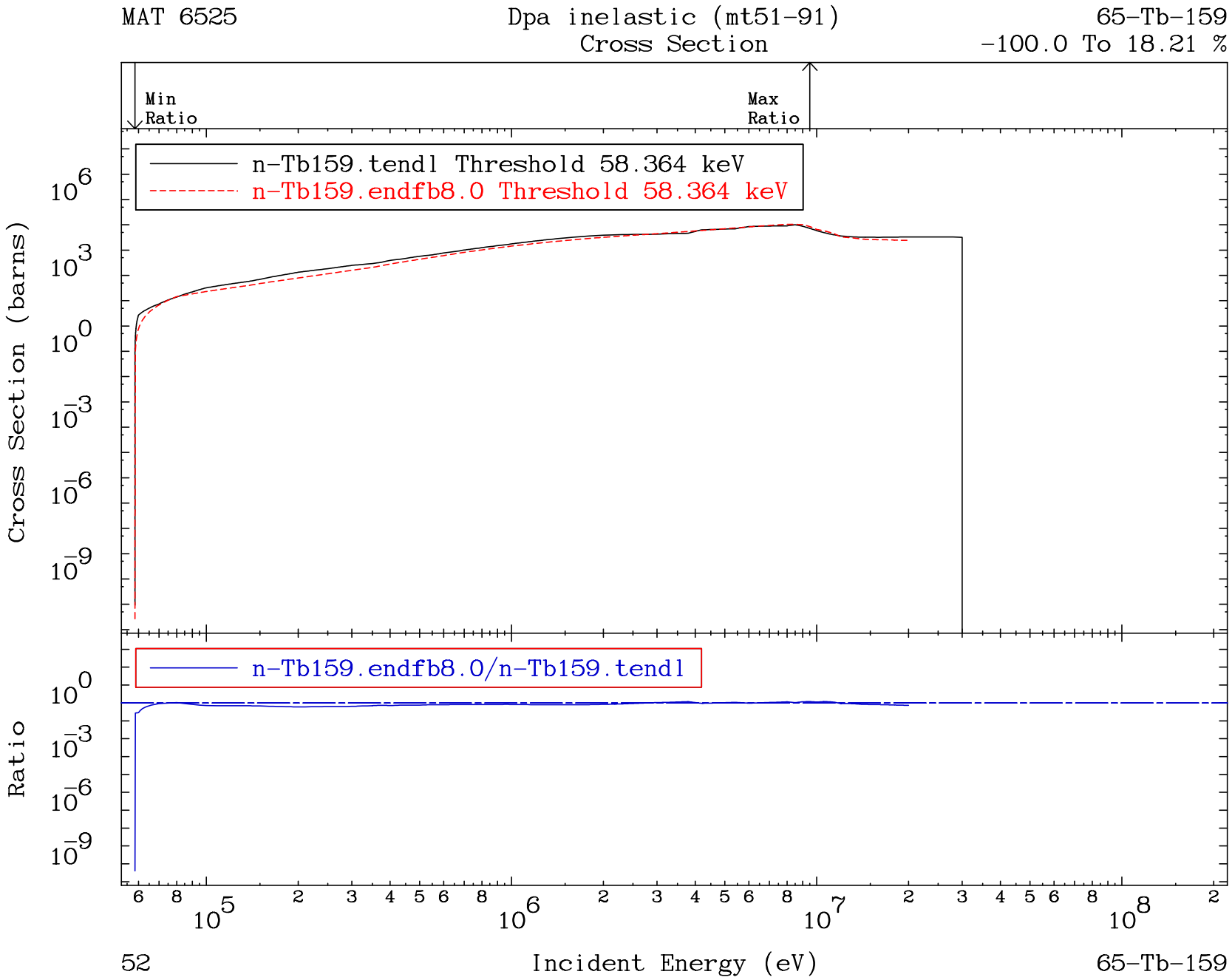

MAT 6525
Kerma capture (mt102)
Cross Section
65-Tb-159
-99.91 To 352.9 %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.endfb8.0
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
47
Incident Energy (eV)
65-Tb-159

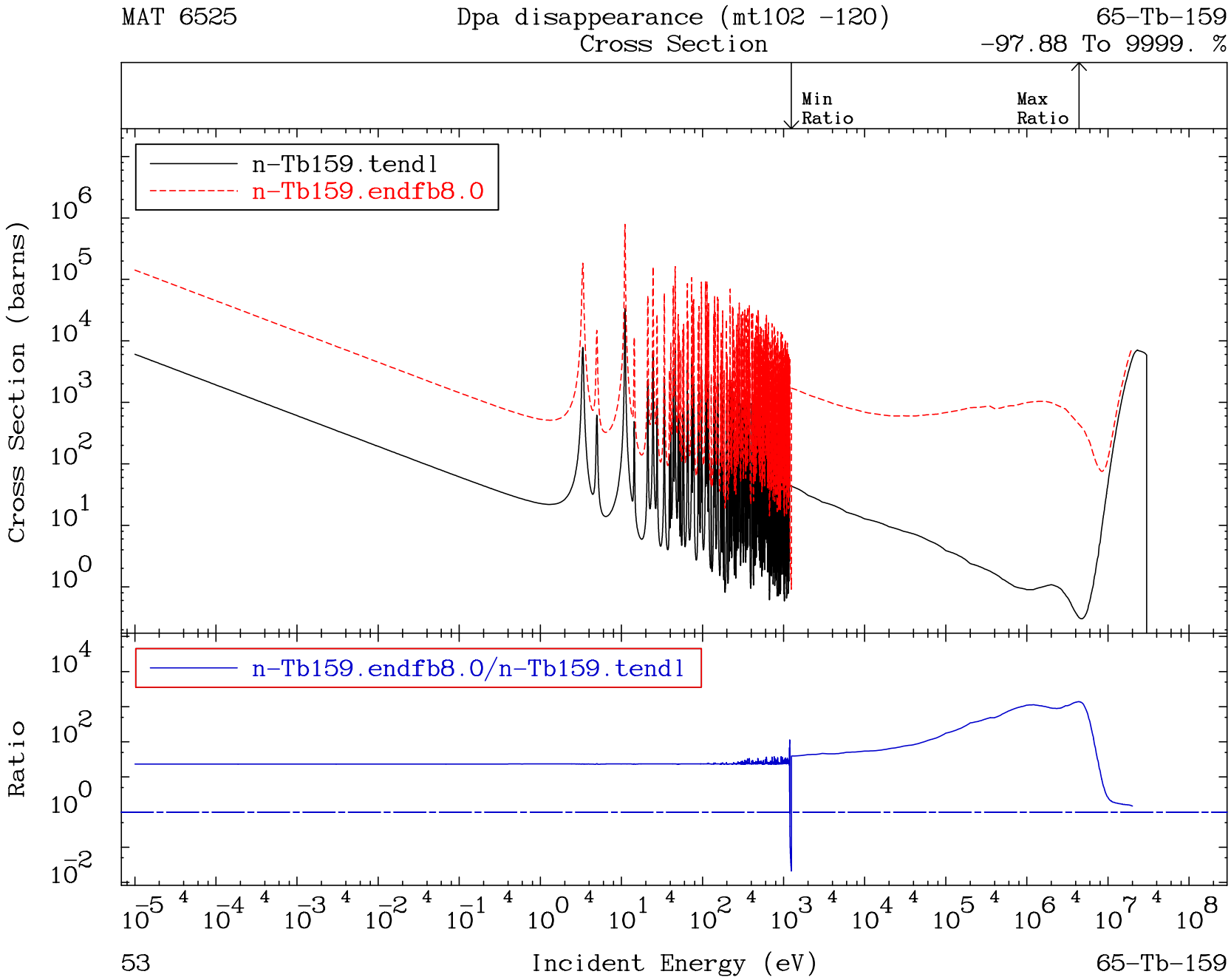

MAT 6525
Total photon (eV-barns)
Cross Section
65-Tb-159
-99.91 To 352.9 %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.endfb8.0
Cross Section (Gega-barns)
40
30
20
10
0
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
48
Incident Energy (eV)
65-Tb-159


MAT 6525
Total kinematic kerma (high limit)
Cross Section
65-Tb-159
-100.0 To -83.92%
Min Ratio
Max Ratio
n-Tb159.tendl
n-Tb159.endfb8.0
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
49
Incident Energy (eV)
65-Tb-159


MAT 6525
Dpa total (eV-barns)
Cross Section
65-Tb-159
-45.11 To 5531. %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.endfb8.0
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
Incident Energy (eV)
50
65-Tb-159


MAT 6525
Dpa elastic (mt2)
Cross Section
65-Tb-159
-28.99 To 9999. %
Min
Ratio
n-Tb159.tendl Threshold 985.04 eV
n-Tb159.endfb8.0 Threshold 941.60 eV
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
Incident Energy (eV)
51
65-Tb-159


MAT 6525
Dpa inelastic (mt51-91)
Cross Section
65-Tb-159
-100.0 To 18.21 %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 58.364 keV
n-Tb159.endfb8.0 Threshold 58.364 keV
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
Incident Energy (eV)
52
65-Tb-159


MAT 6525
Dpa disappearance (mt102 -120)
Cross Section
65-Tb-159
-97.88 To 9999. %
Min Ratio
Max Ratio
n-Tb159.tendl
n-Tb159.endfb8.0
Cross Section (barns)
n-Tb159.endfb8.0/n-Tb159.tendl
Ratio
Incident Energy (eV)
53
65-Tb-159