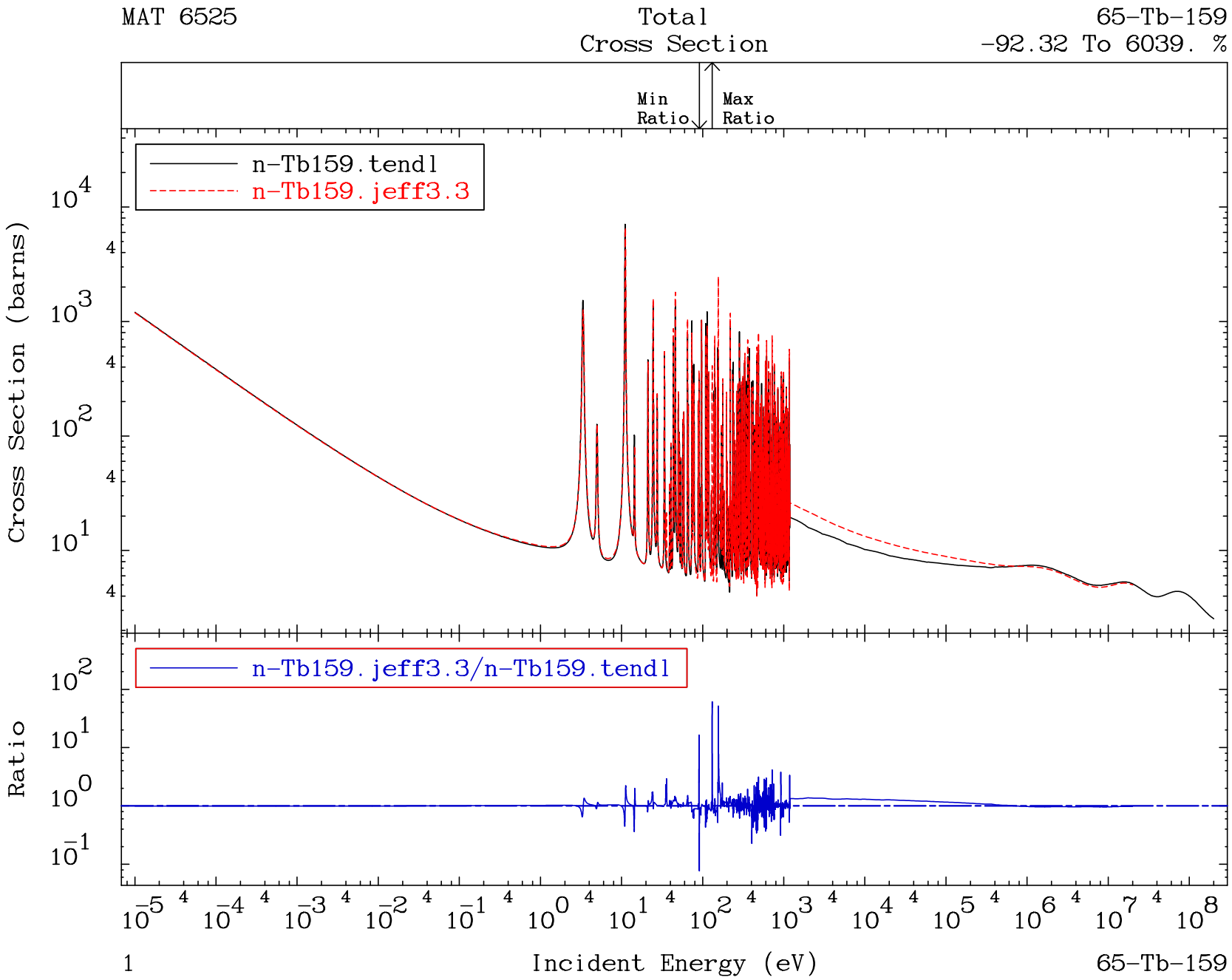
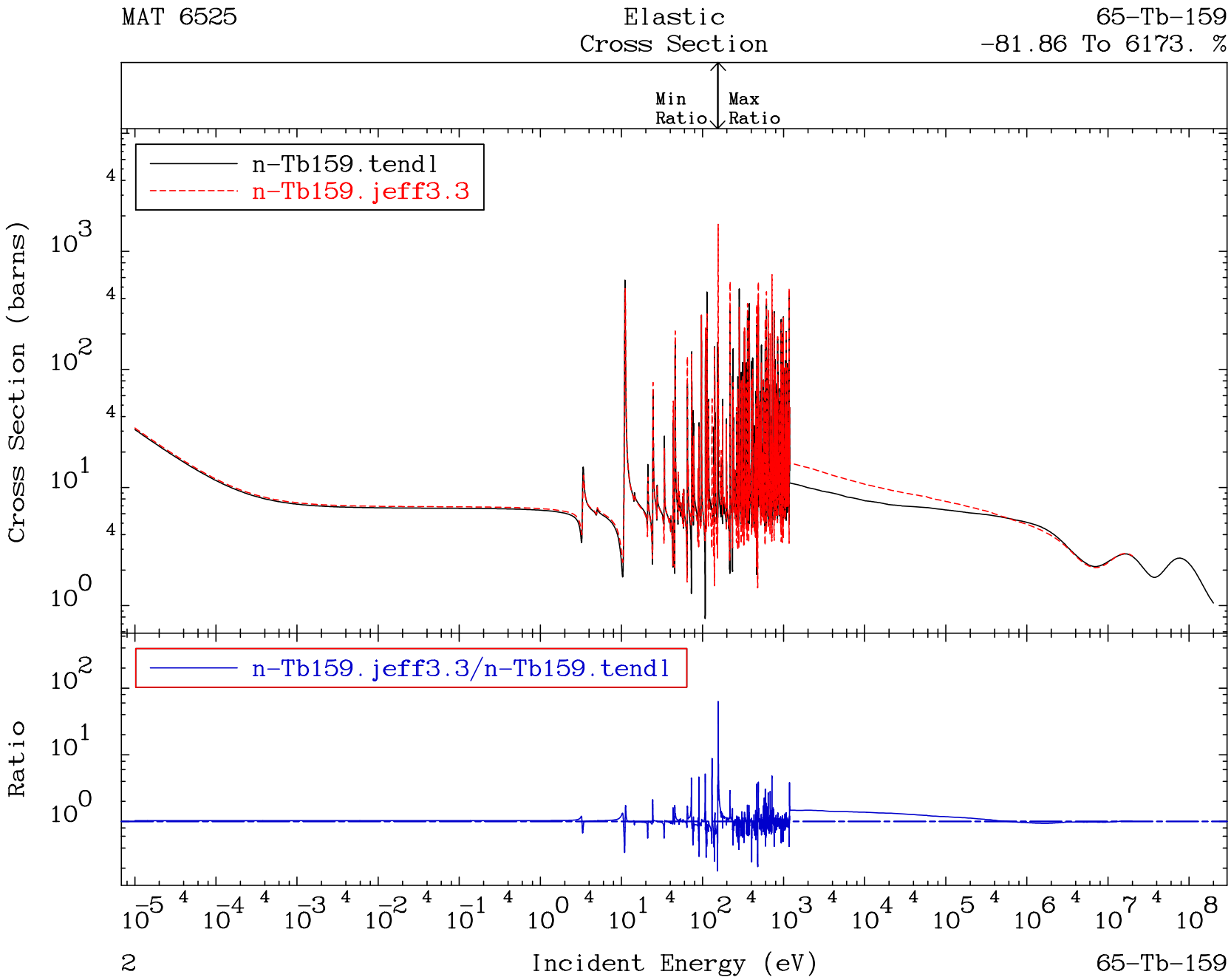
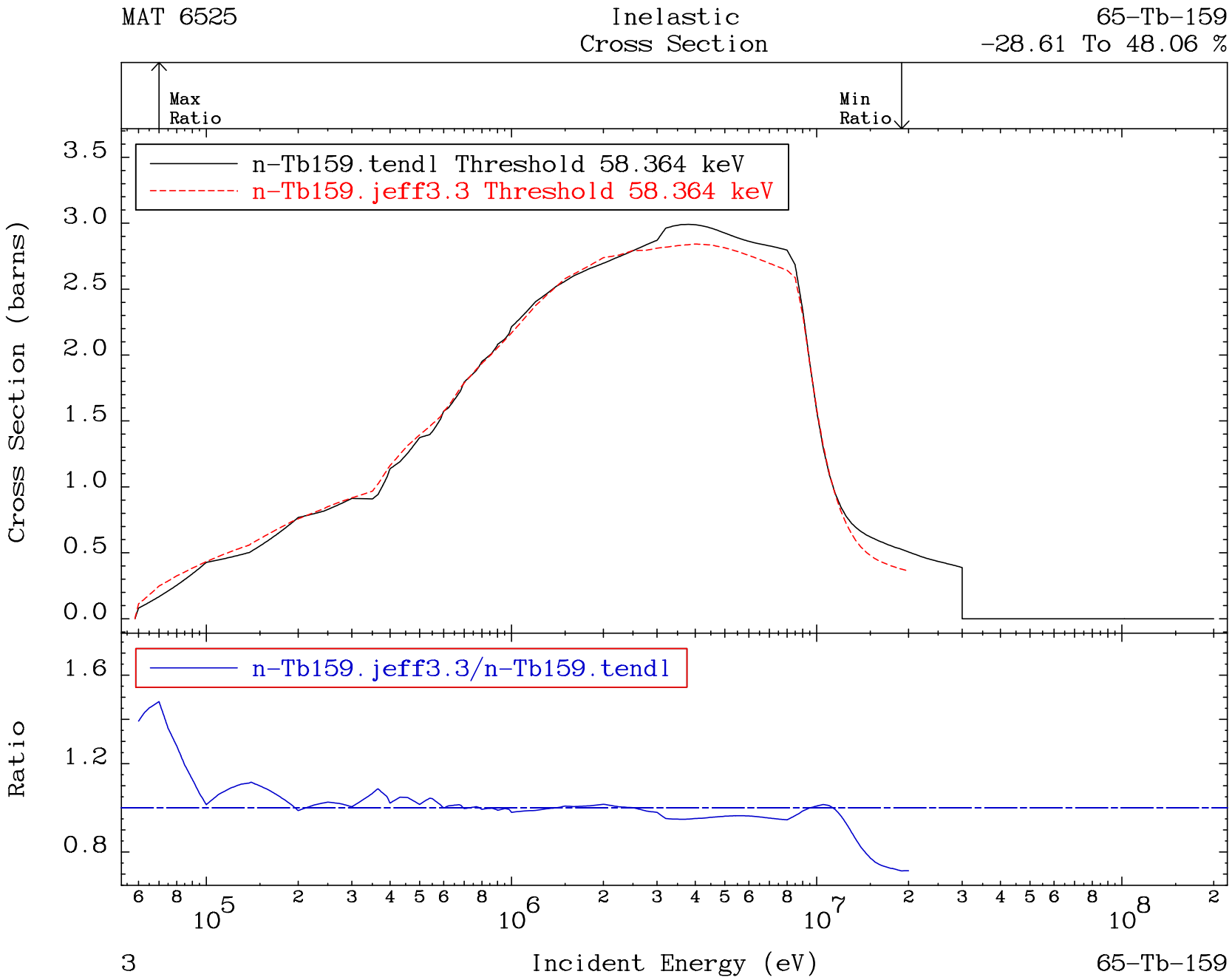
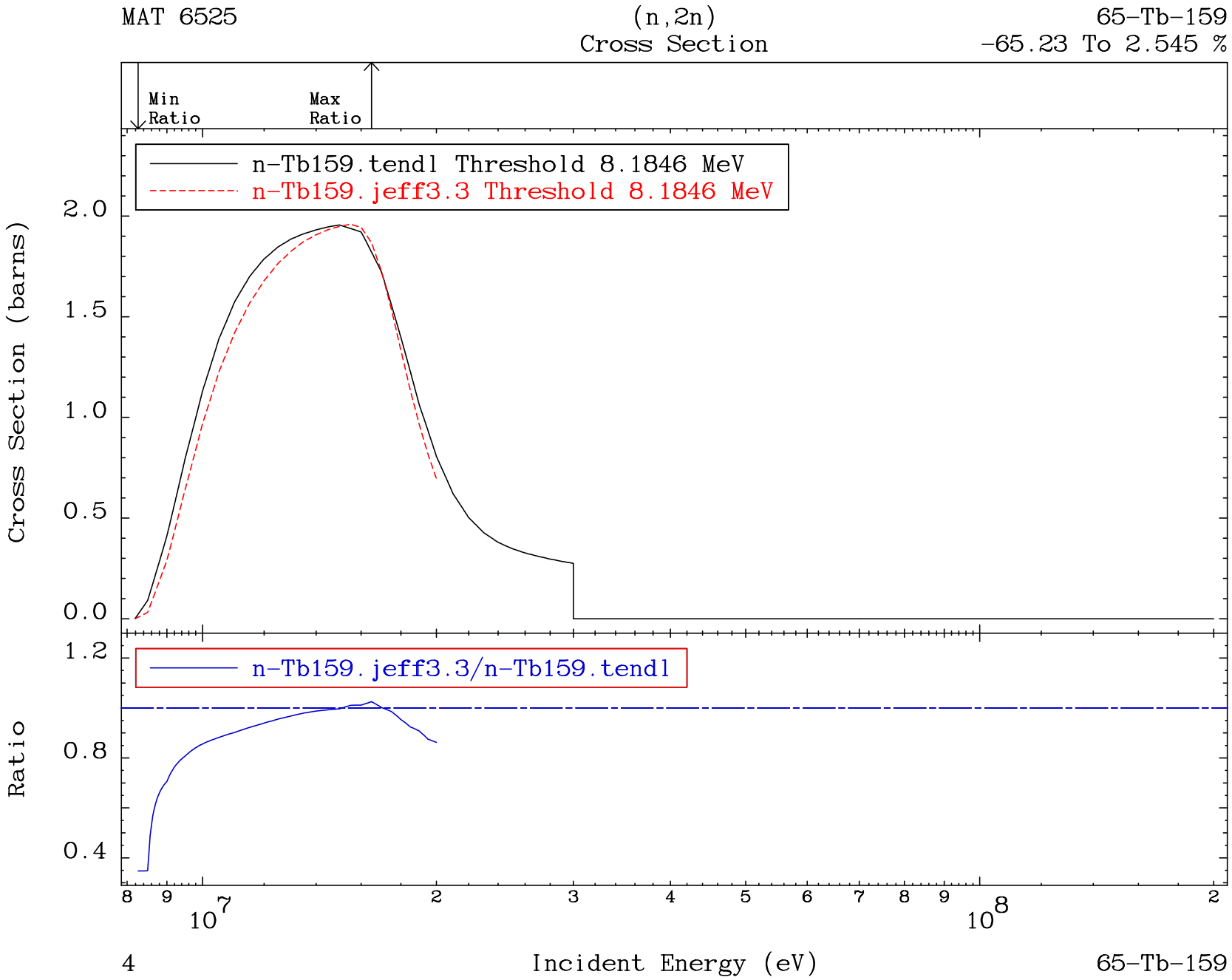
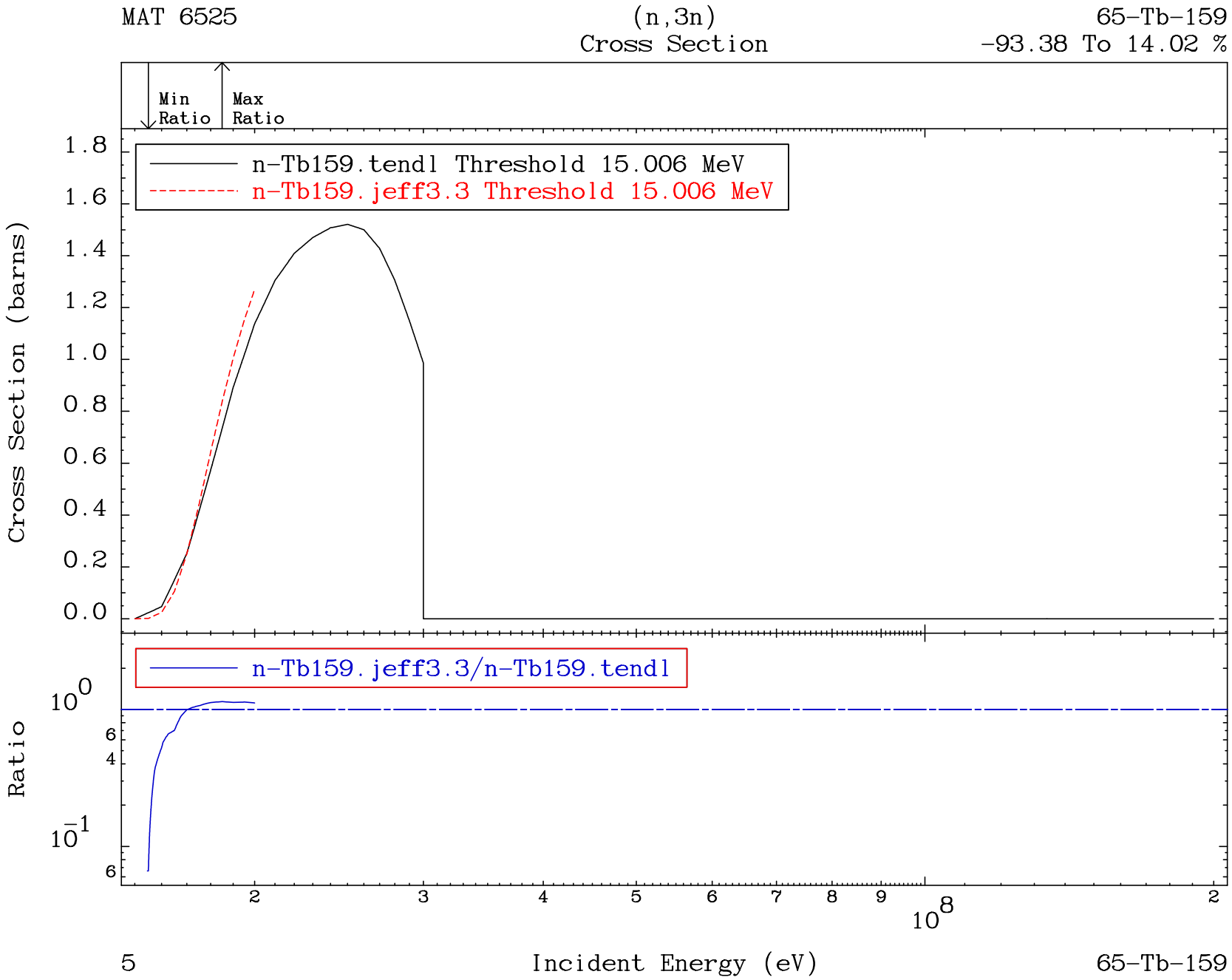
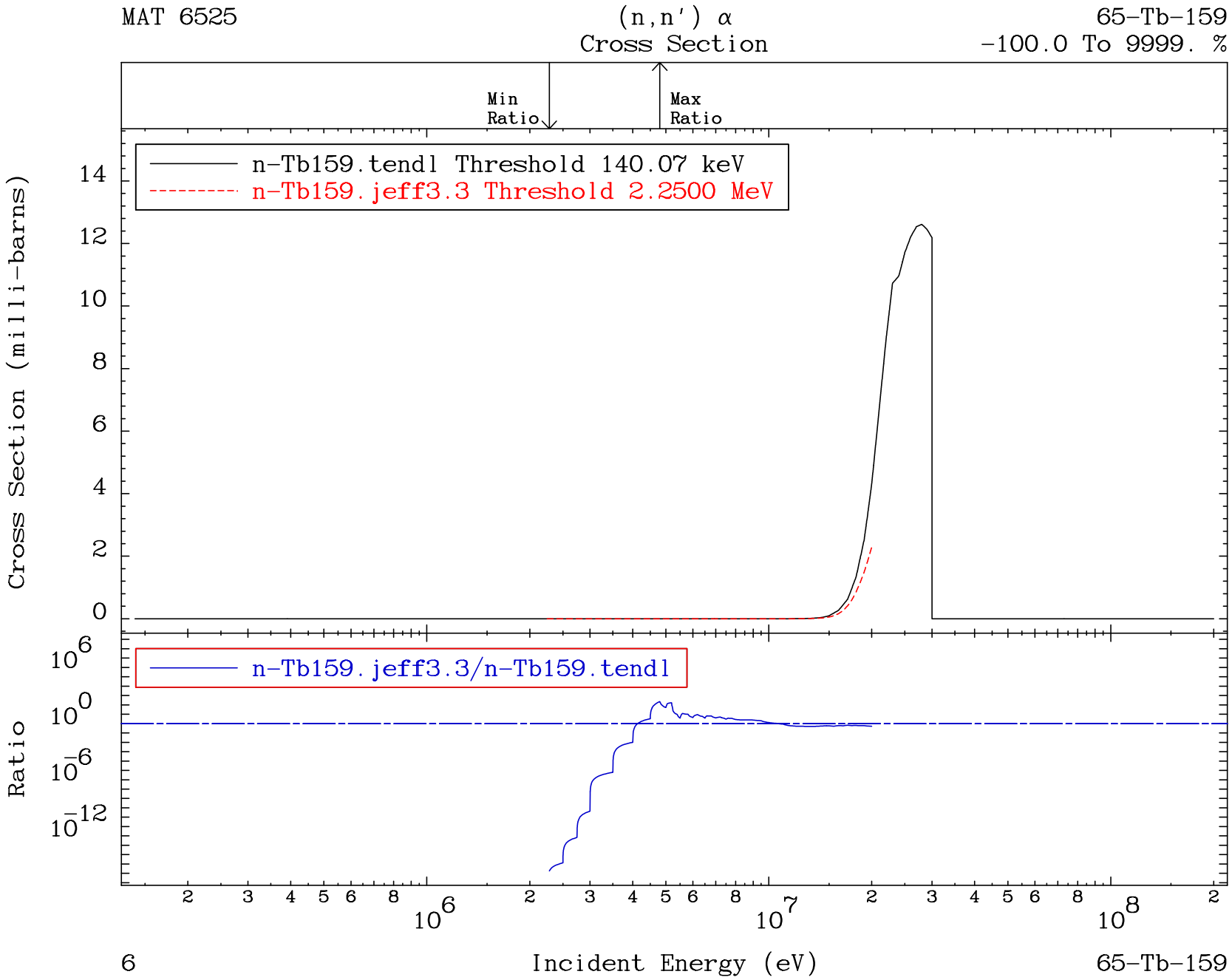

MAT 6525
Total
Cross Section
65-Tb-159
-92.32 To 6039. %
Min
Ratio
Max
Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
1
65-Tb-159

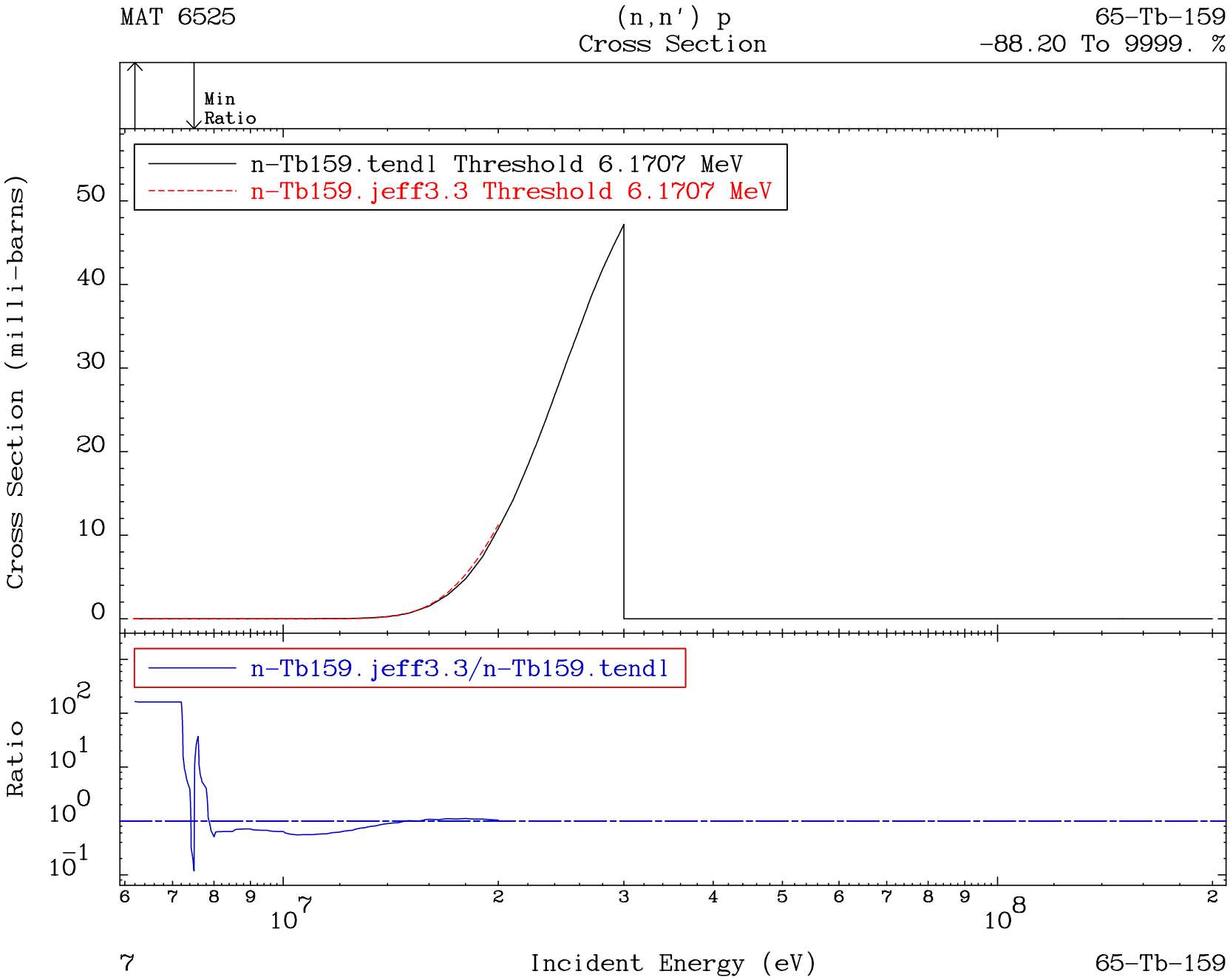

MAT 6525
Elastic
Cross Section
65-Tb-159
-81.86 To 6173. %
Min Ratio
Max Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
2
65-Tb-159

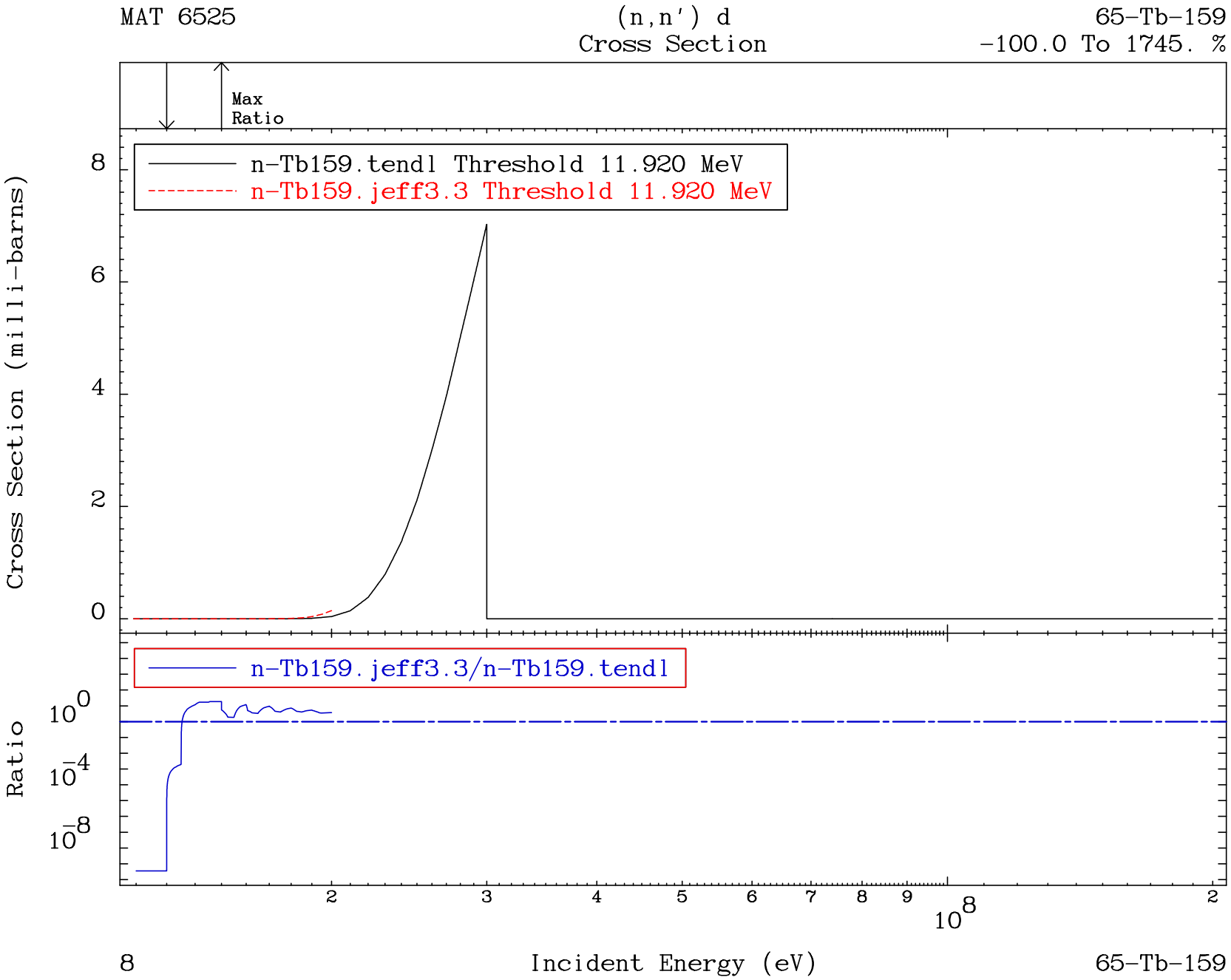

MAT 6525
Inelastic
Cross Section
65-Tb-159
-28.61 To 48.06 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 58.364 keV
n-Tb159.jeff3.3 Threshold 58.364 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
1.6
1.2
0.8
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
65-Tb-159

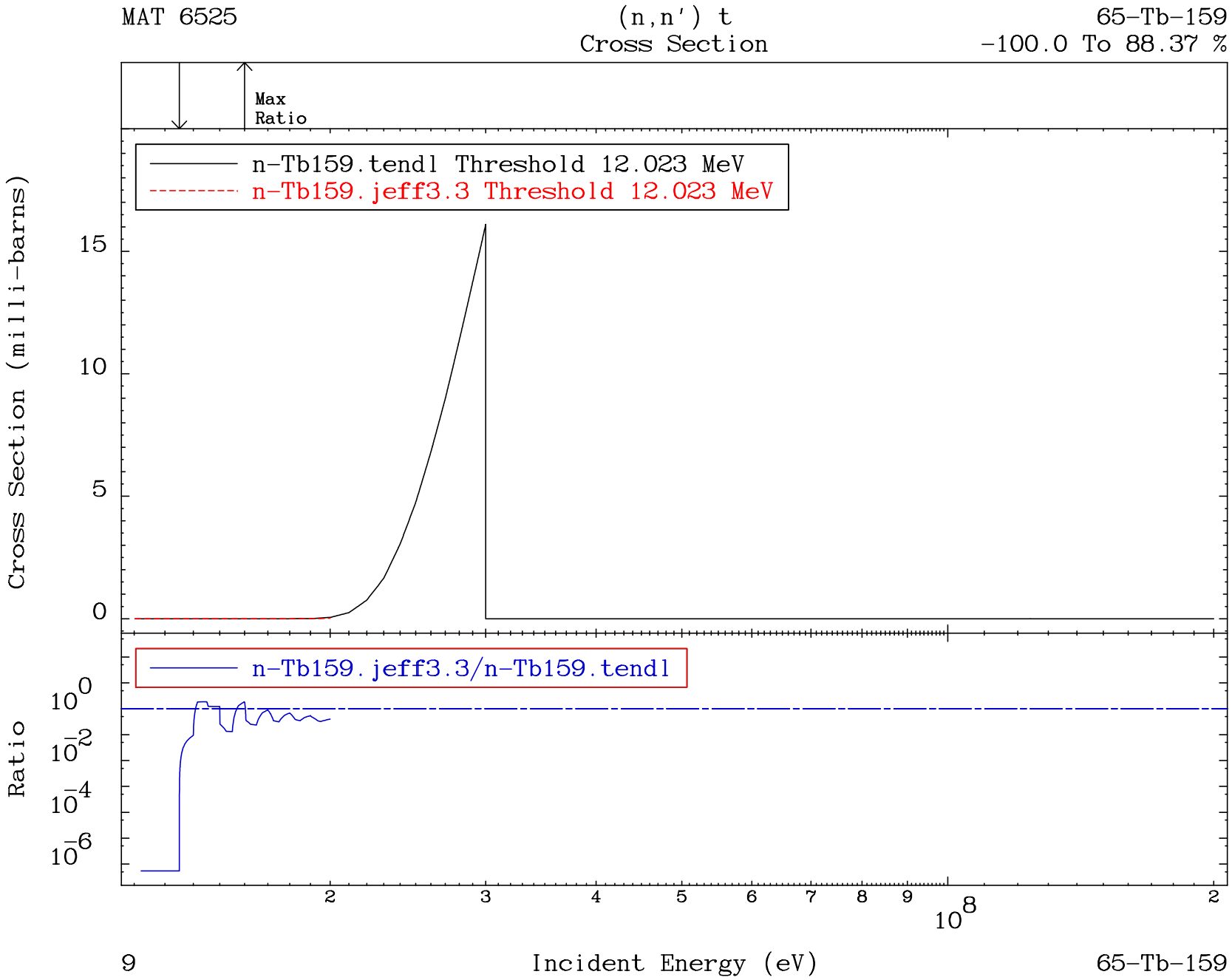

MAT 6525
(n,2n)
Cross Section
65-Tb-159
-65.23 To 2.545 %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 8.1846 MeV
n-Tb159.jeff3.3 Threshold 8.1846 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
1.2
0.8
0.4
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
65-Tb-159

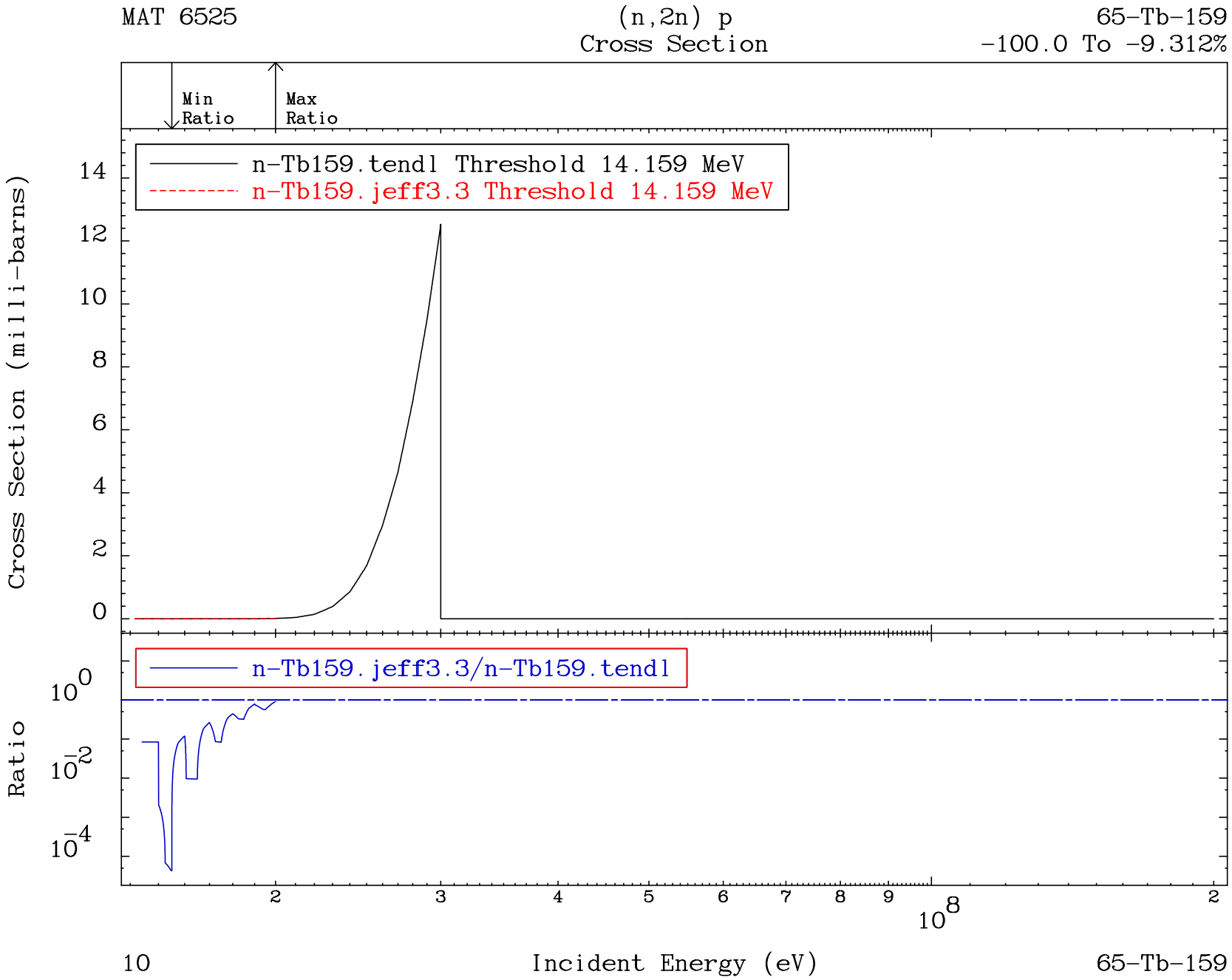

MAT 6525
(n,3n)
Cross Section
65-Tb-159
-93.38 To 14.02 %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 15.006 MeV
n-Tb159.jeff3.3 Threshold 15.006 MeV
Cross Section (barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
6
4
10^-1
6
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
65-Tb-159

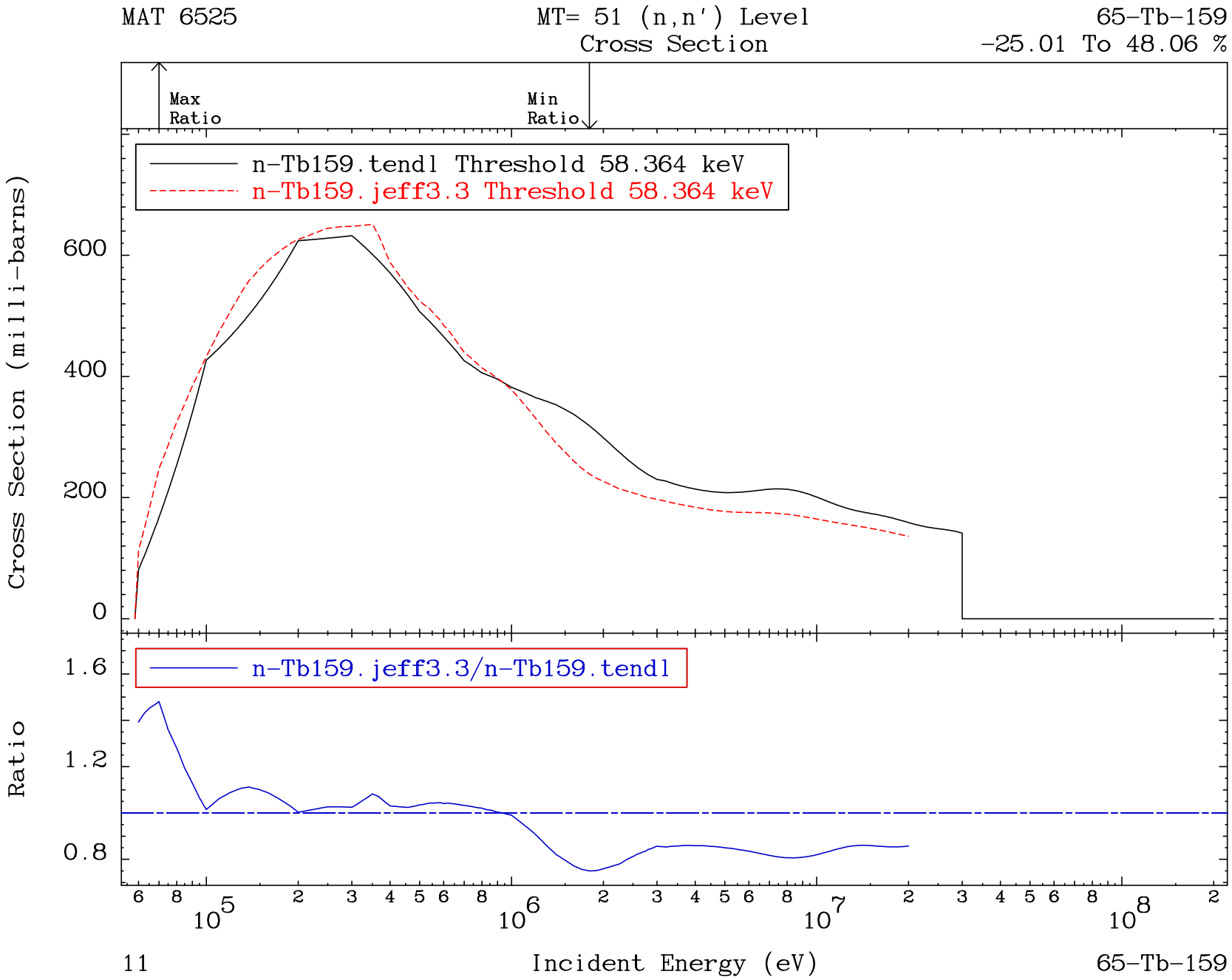

MAT 6525
(n,n') α
Cross Section
65-Tb-159
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 140.07 keV
n-Tb159.jeff3.3 Threshold 2.2500 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^6
10^0
10^-6
10^-12
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
6
Incident Energy (eV)
65-Tb-159

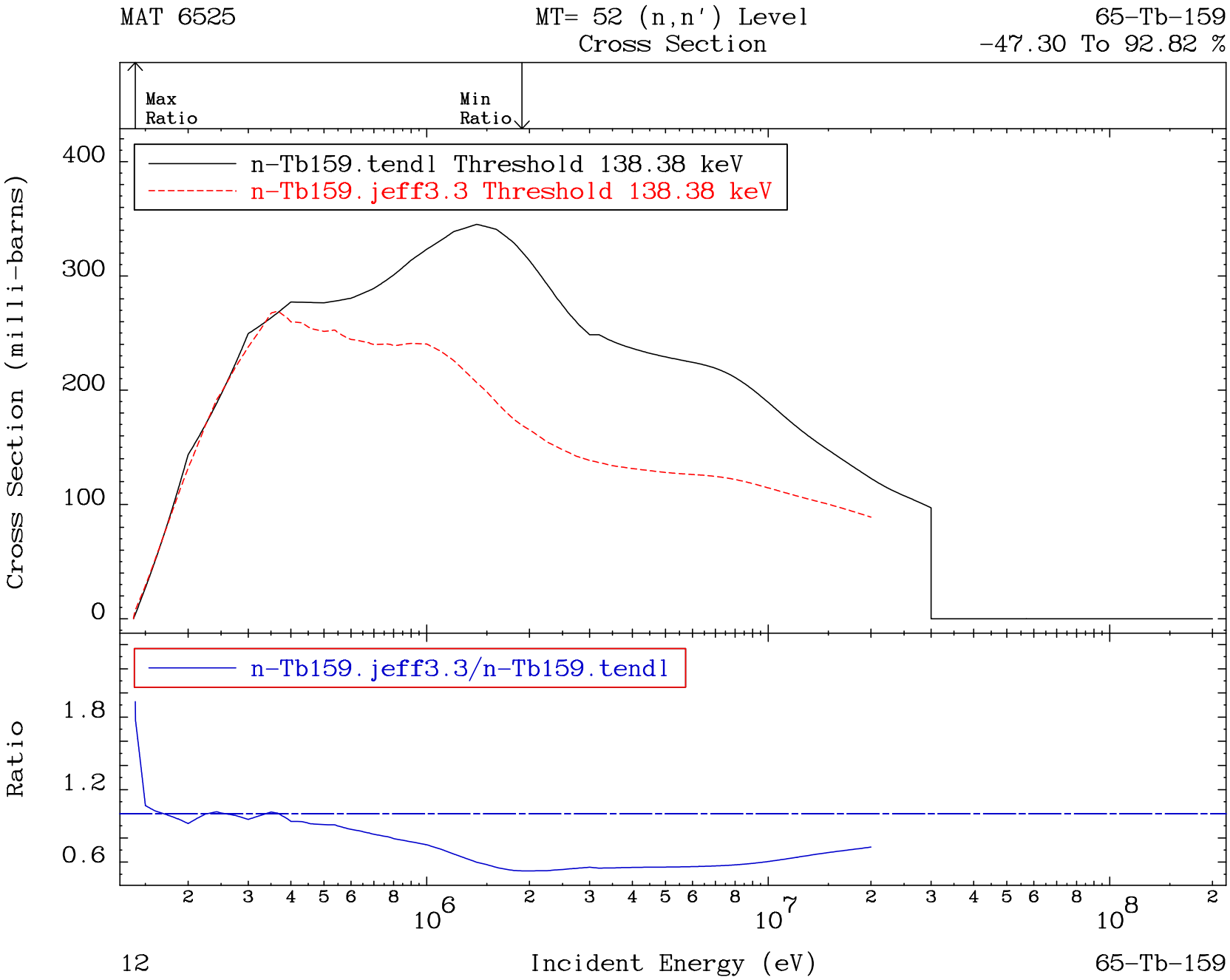

MAT 6525
(n,n') p
Cross Section
65-Tb-159
-88.20 To 9999. %
Min
Ratio
n-Tb159.tendl Threshold 6.1707 MeV
n-Tb159.jeff3.3 Threshold 6.1707 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^2
10^1
10^0
10^-1
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
65-Tb-159

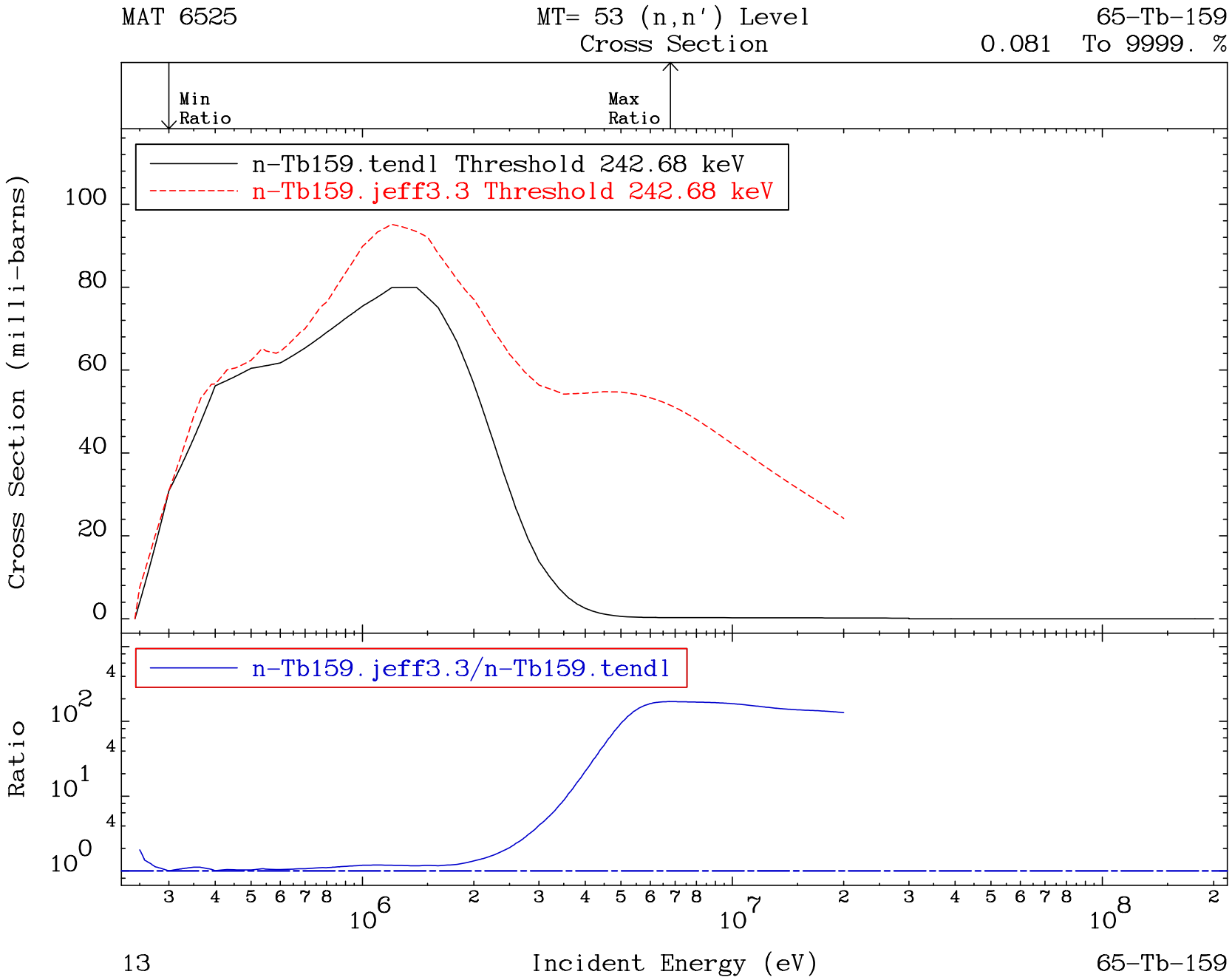

MAT 6525
(n,n') d
Cross Section
65-Tb-159
-100.0 To 1745. %
Max
Ratio
n-Tb159.tendl Threshold 11.920 MeV
n-Tb159.jeff3.3 Threshold 11.920 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
10^-4
10^-8
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
65-Tb-159

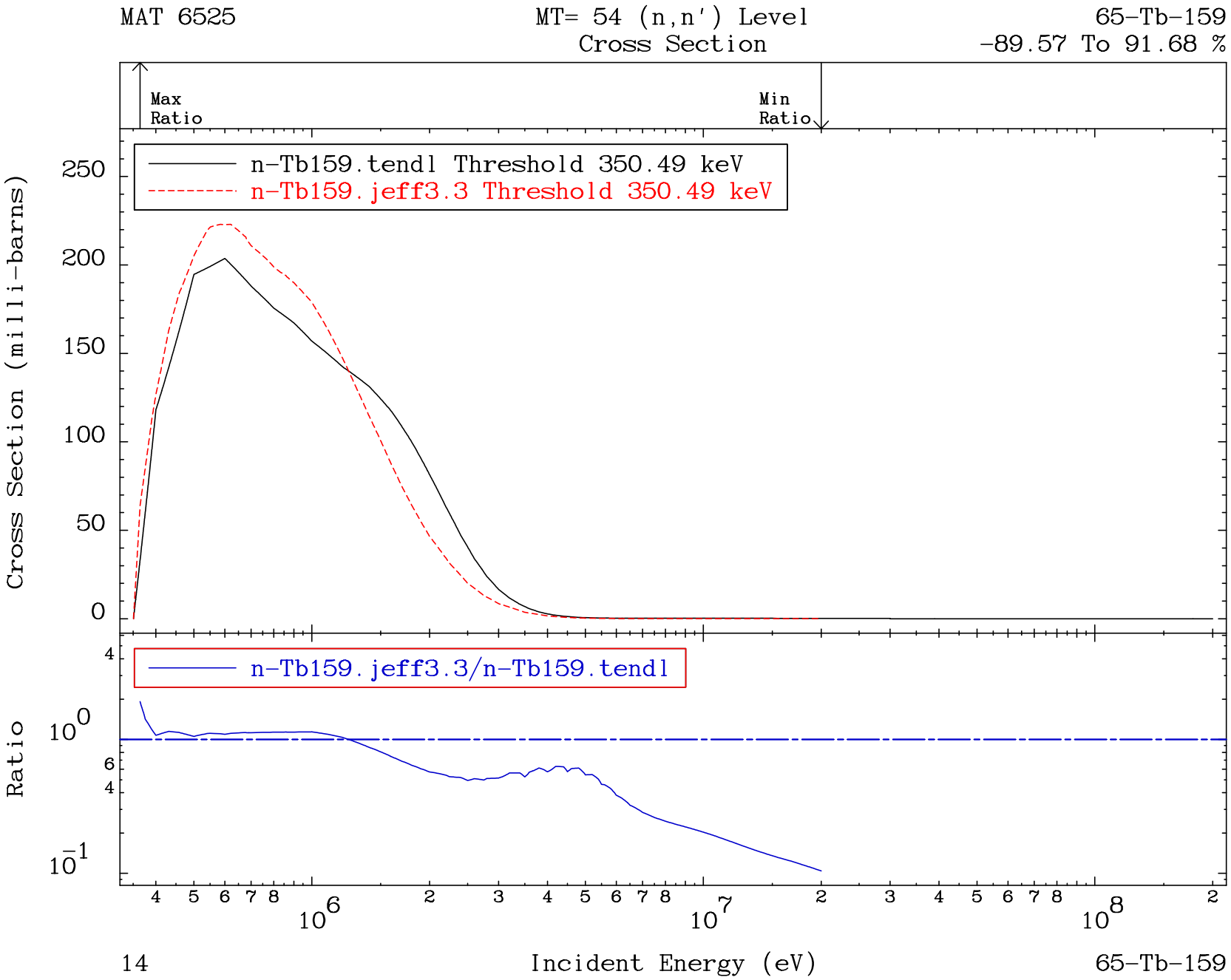

MAT 6525
(n,n') t
Cross Section
65-Tb-159
-100.0 To 88.37 %
Max
Ratio
n-Tb159.tendl Threshold 12.023 MeV
n-Tb159.jeff3.3 Threshold 12.023 MeV
Cross Section (milli-barns)
15
10
5
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
10^-2
10^-4
10^-6
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
65-Tb-159

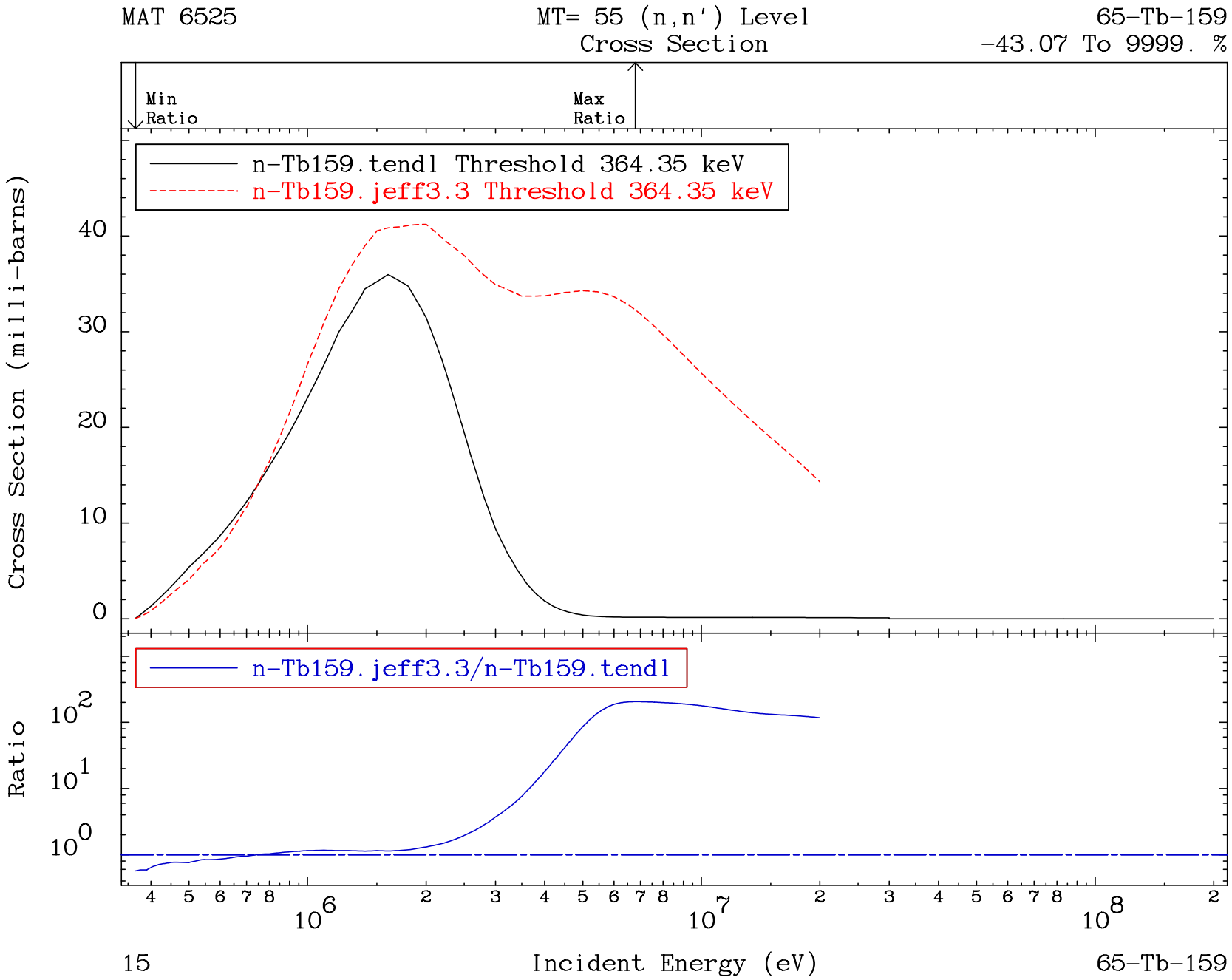

MAT 6525
(n,2n) p
Cross Section
65-Tb-159
-100.0 To -9.312%
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 14.159 MeV
n-Tb159.jeff3.3 Threshold 14.159 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
65-Tb-159

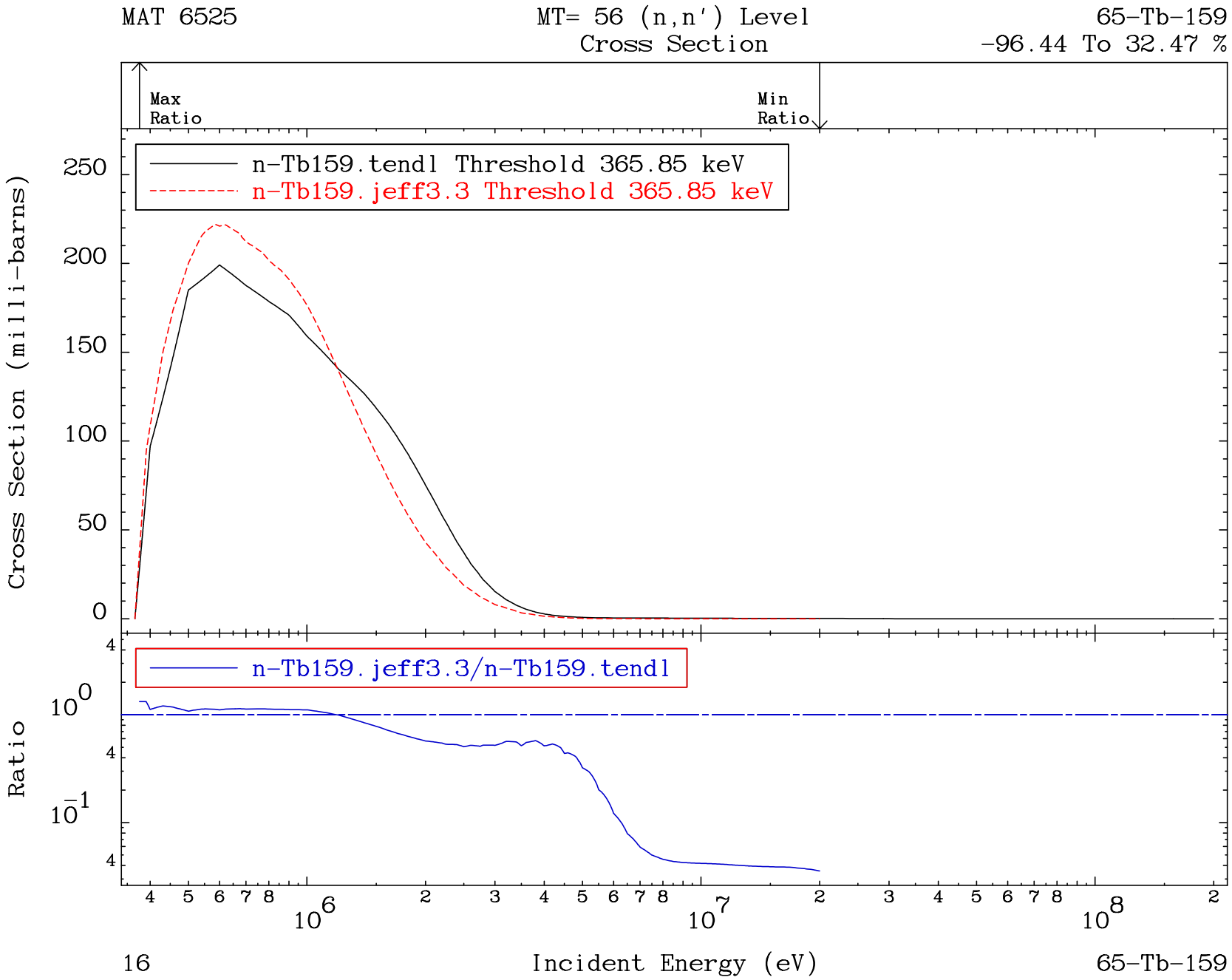

MAT 6525
MT= 51 (n,n') Level
Cross Section
65-Tb-159
-25.01 To 48.06 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 58.364 keV
n-Tb159.jeff3.3 Threshold 58.364 keV
Cross Section (milli-barns)
600
400
200
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
1.6
1.2
0.8
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
65-Tb-159

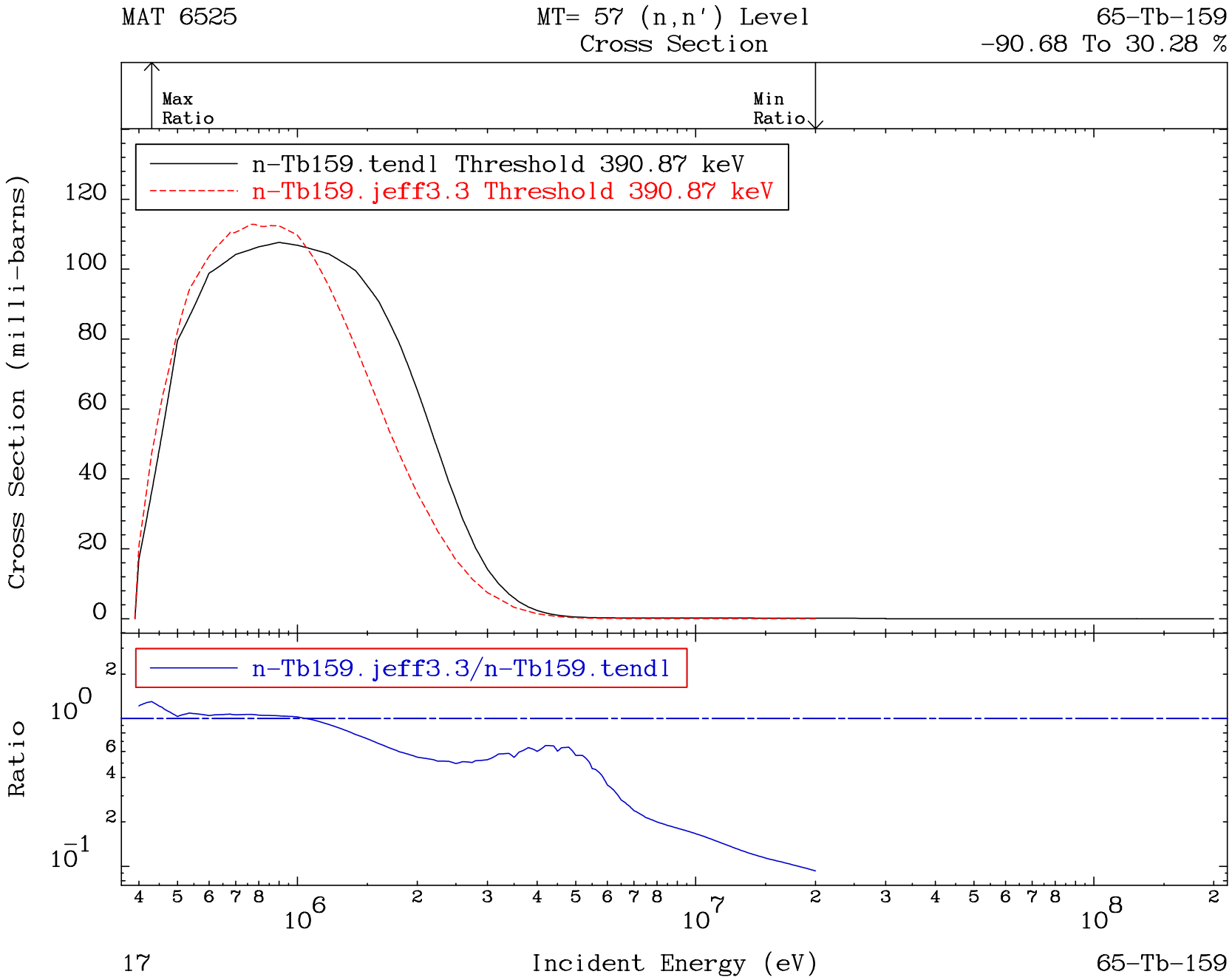

MAT 6525
MT= 52 (n,n') Level
Cross Section
65-Tb-159
-47.30 To 92.82 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 138.38 keV
n-Tb159.jeff3.3 Threshold 138.38 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
1.8
1.2
0.6
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
65-Tb-159

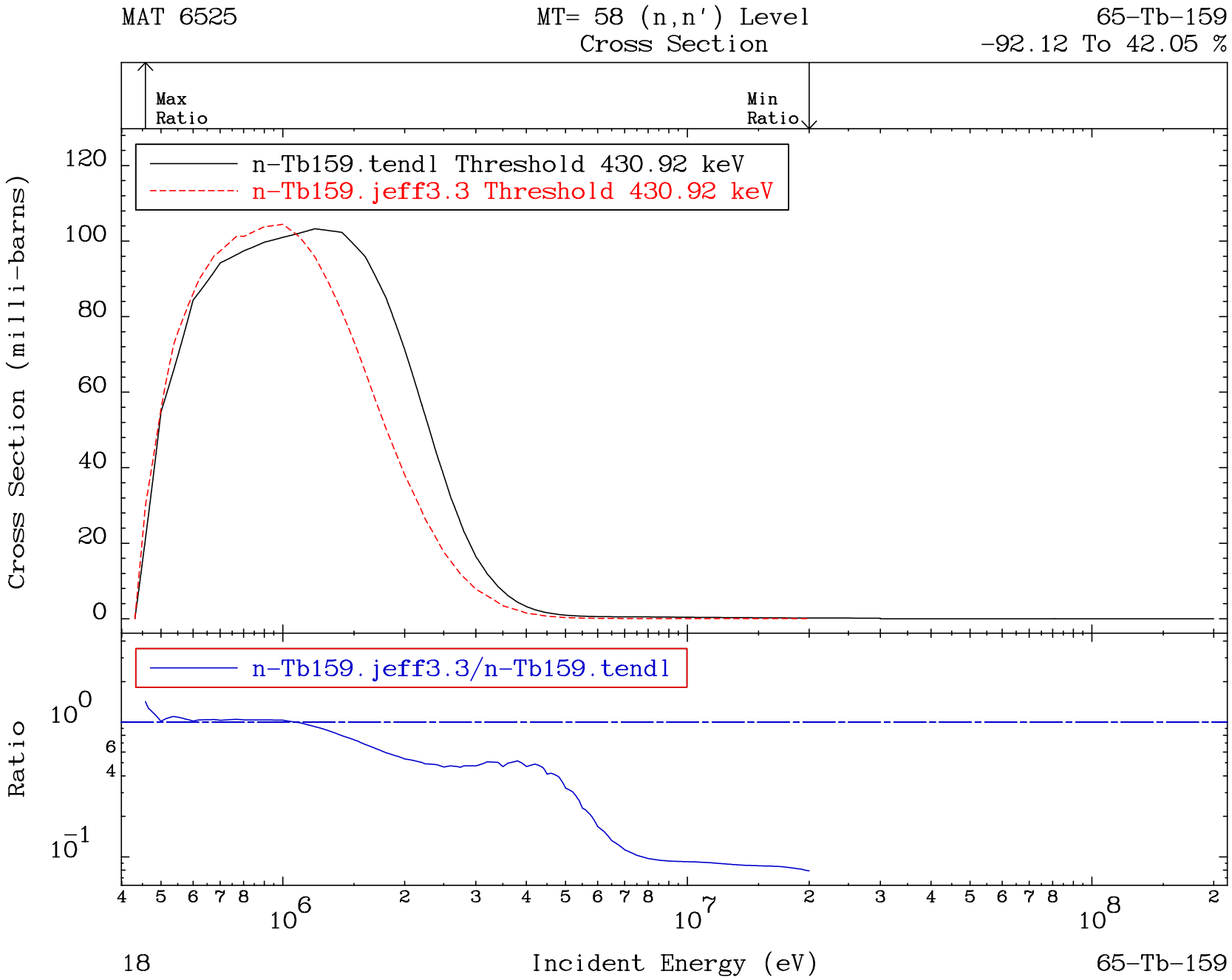

MAT 6525
MT= 53 (n,n') Level
Cross Section
65-Tb-159
0.081 To 9999. %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 242.68 keV
n-Tb159.jeff3.3 Threshold 242.68 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
65-Tb-159

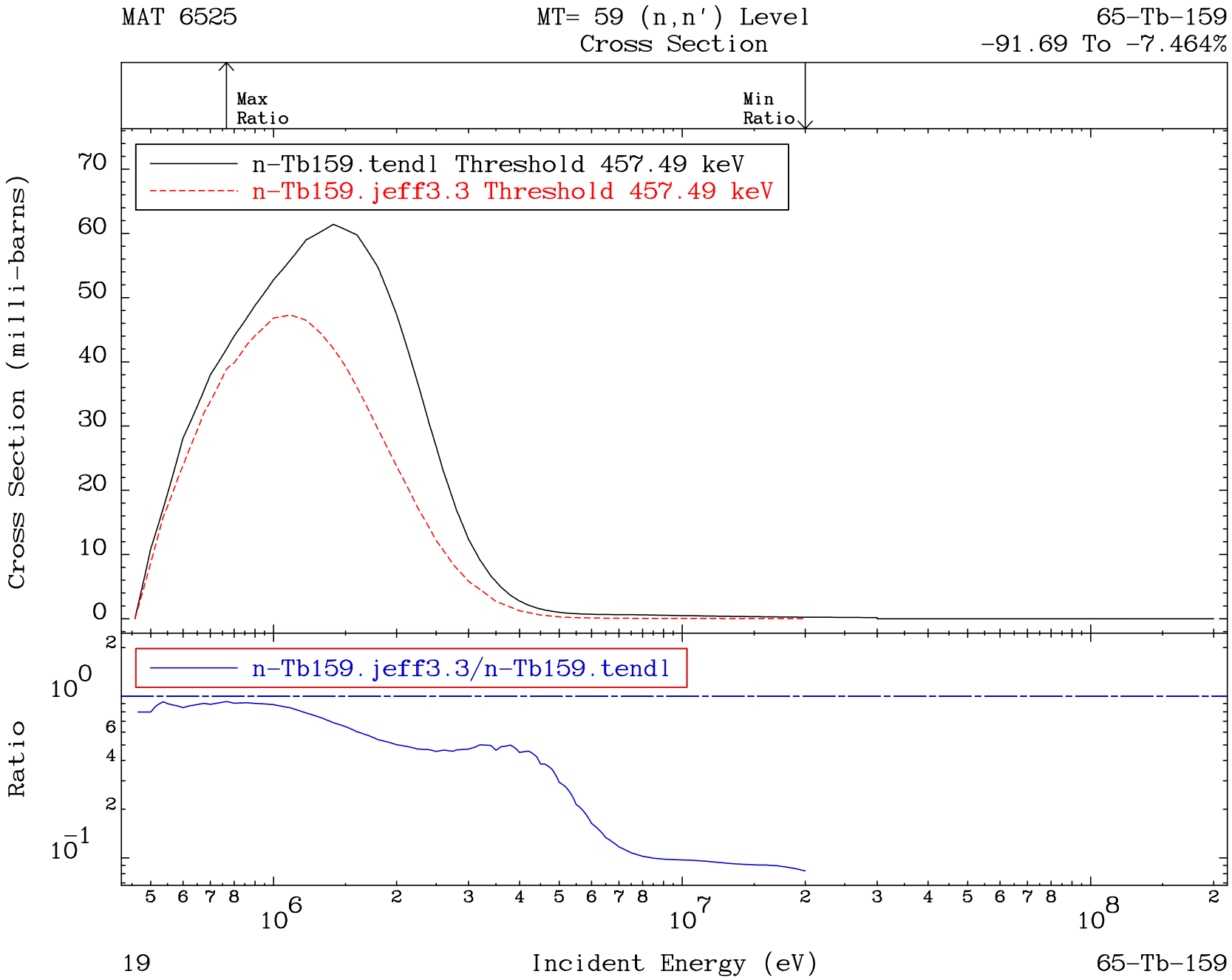

MAT 6525
MT= 54 (n,n') Level
Cross Section
65-Tb-159
-89.57 To 91.68 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 350.49 keV
n-Tb159.jeff3.3 Threshold 350.49 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
4
10^0
6
4
10^{-1}
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
65-Tb-159

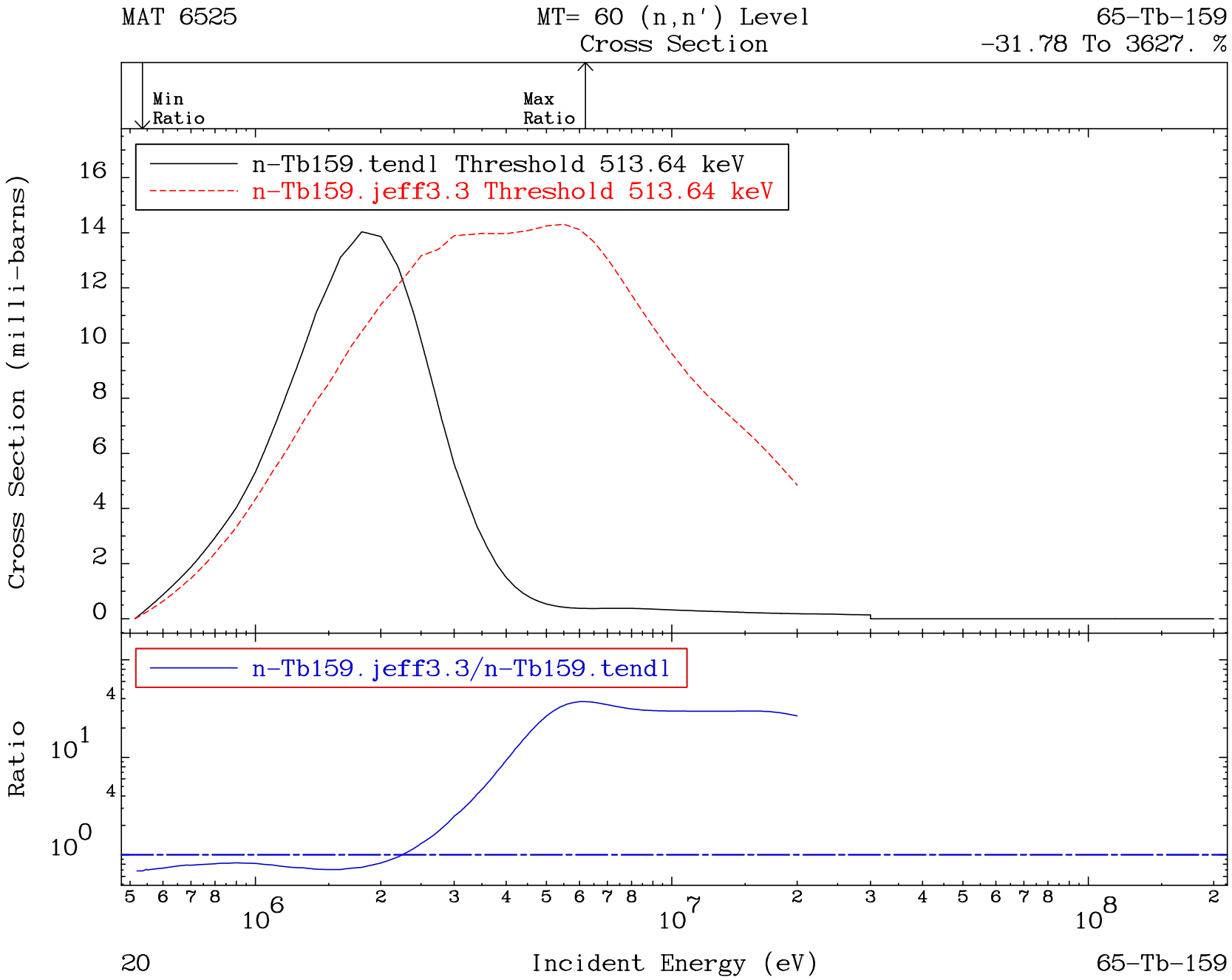

MAT 6525
MT= 55 (n,n') Level
Cross Section
65-Tb-159
-43.07 To 9999. %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 364.35 keV
n-Tb159.jeff3.3 Threshold 364.35 keV
Cross Section (milli-barns)
0
10
20
30
40
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
10^1
10^2
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
65-Tb-159

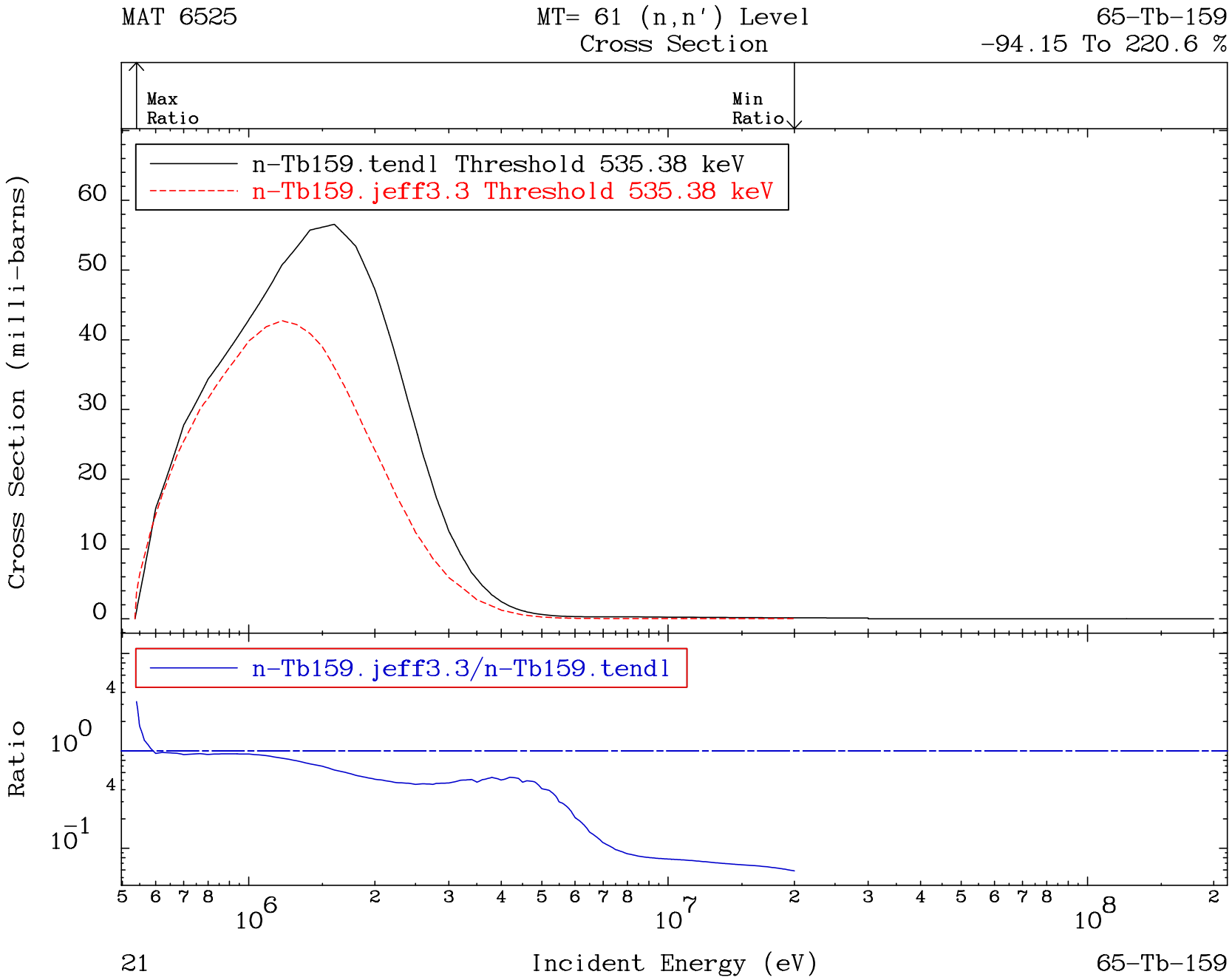

MAT 6525
MT= 56 (n,n') Level
Cross Section
65-Tb-159
-96.44 To 32.47 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 365.85 keV
n-Tb159.jeff3.3 Threshold 365.85 keV
Cross Section (milli-barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
16
65-Tb-159

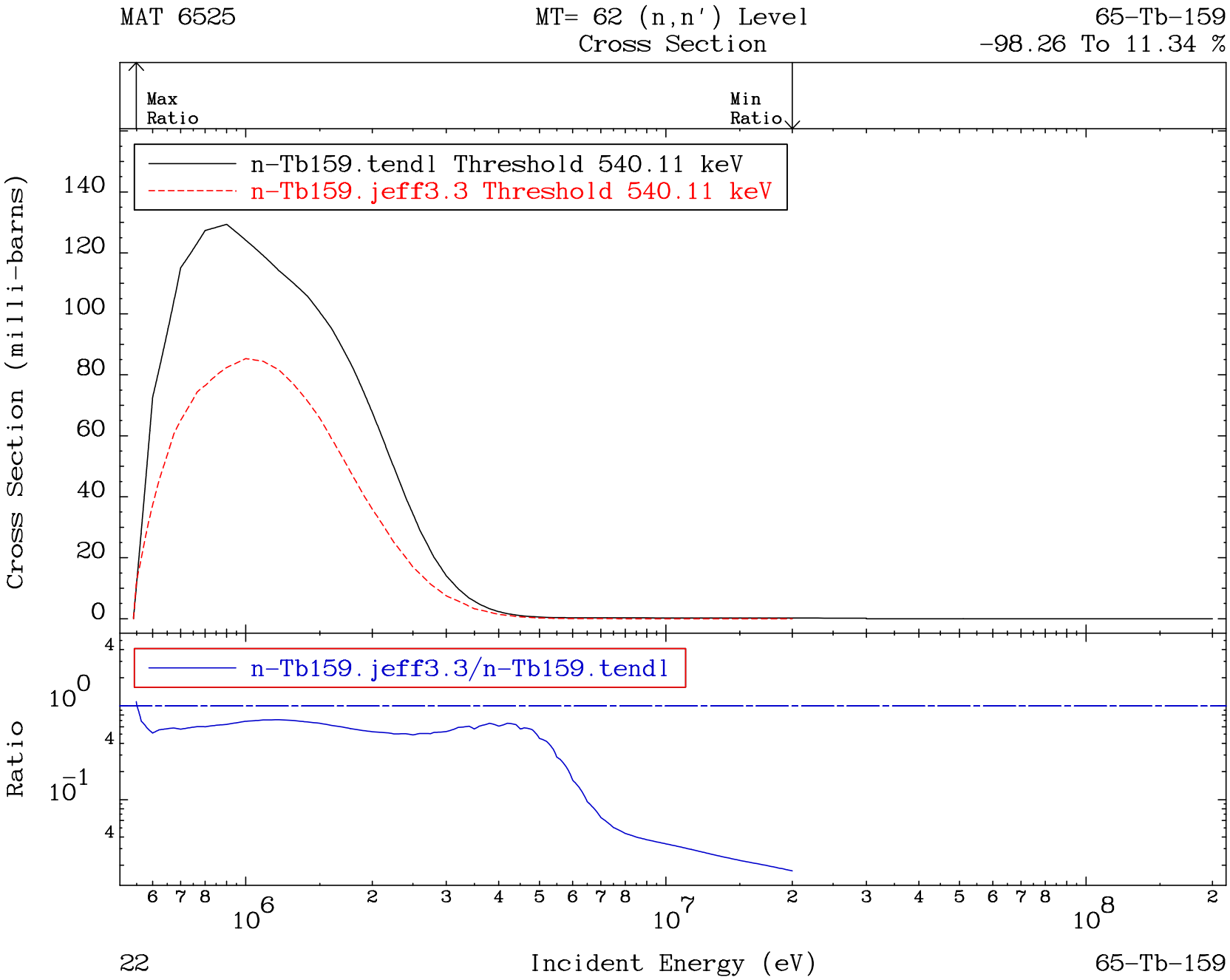

MAT 6525
MT= 57 (n,n') Level
Cross Section
65-Tb-159
-90.68 To 30.28 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 390.87 keV
n-Tb159.jeff3.3 Threshold 390.87 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
2
10^0
6
4
2
10^-1
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
65-Tb-159

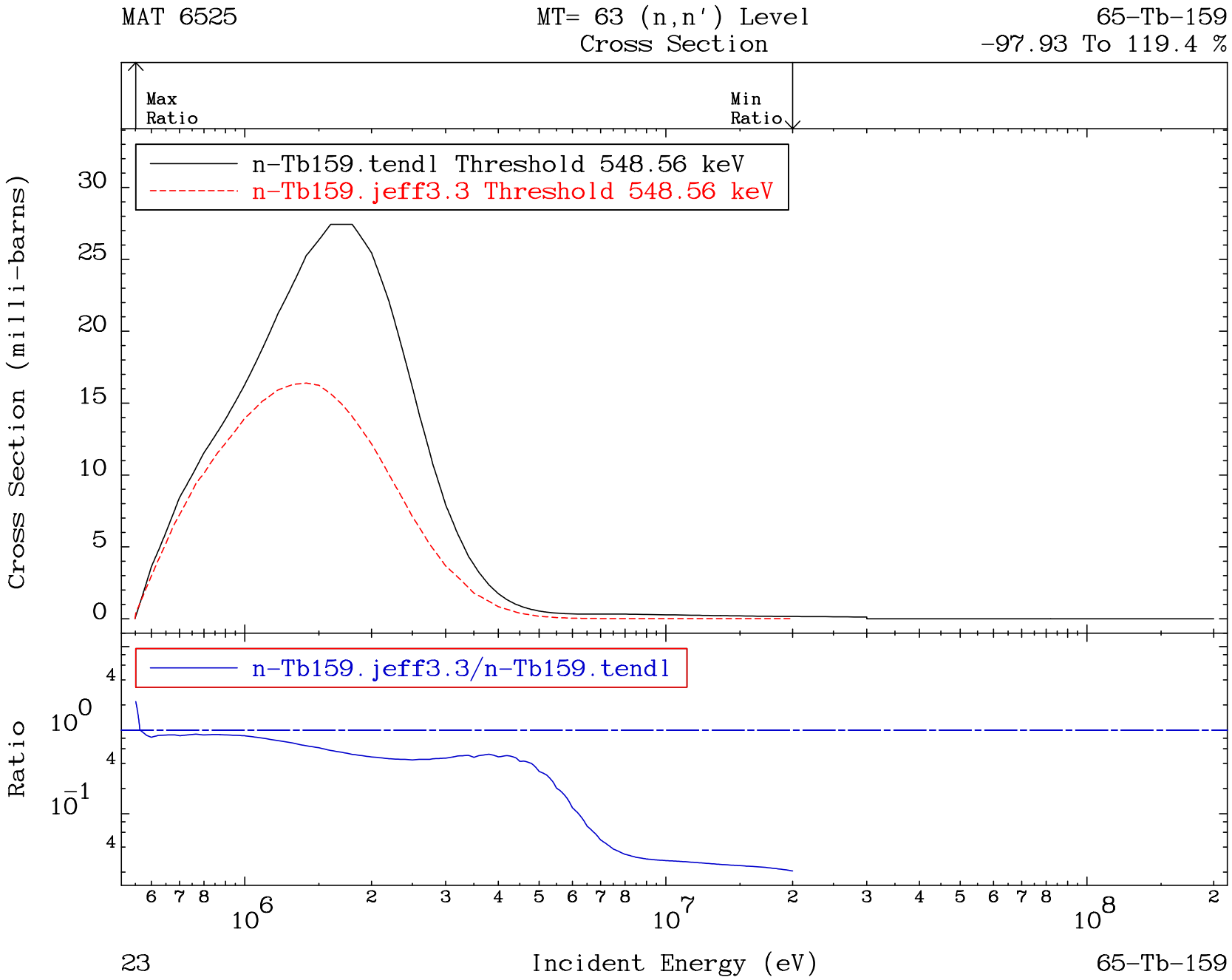

MAT 6525
MT= 58 (n,n') Level
Cross Section
65-Tb-159
-92.12 To 42.05 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 430.92 keV
n-Tb159.jeff3.3 Threshold 430.92 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
6
4
10^-1
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
65-Tb-159

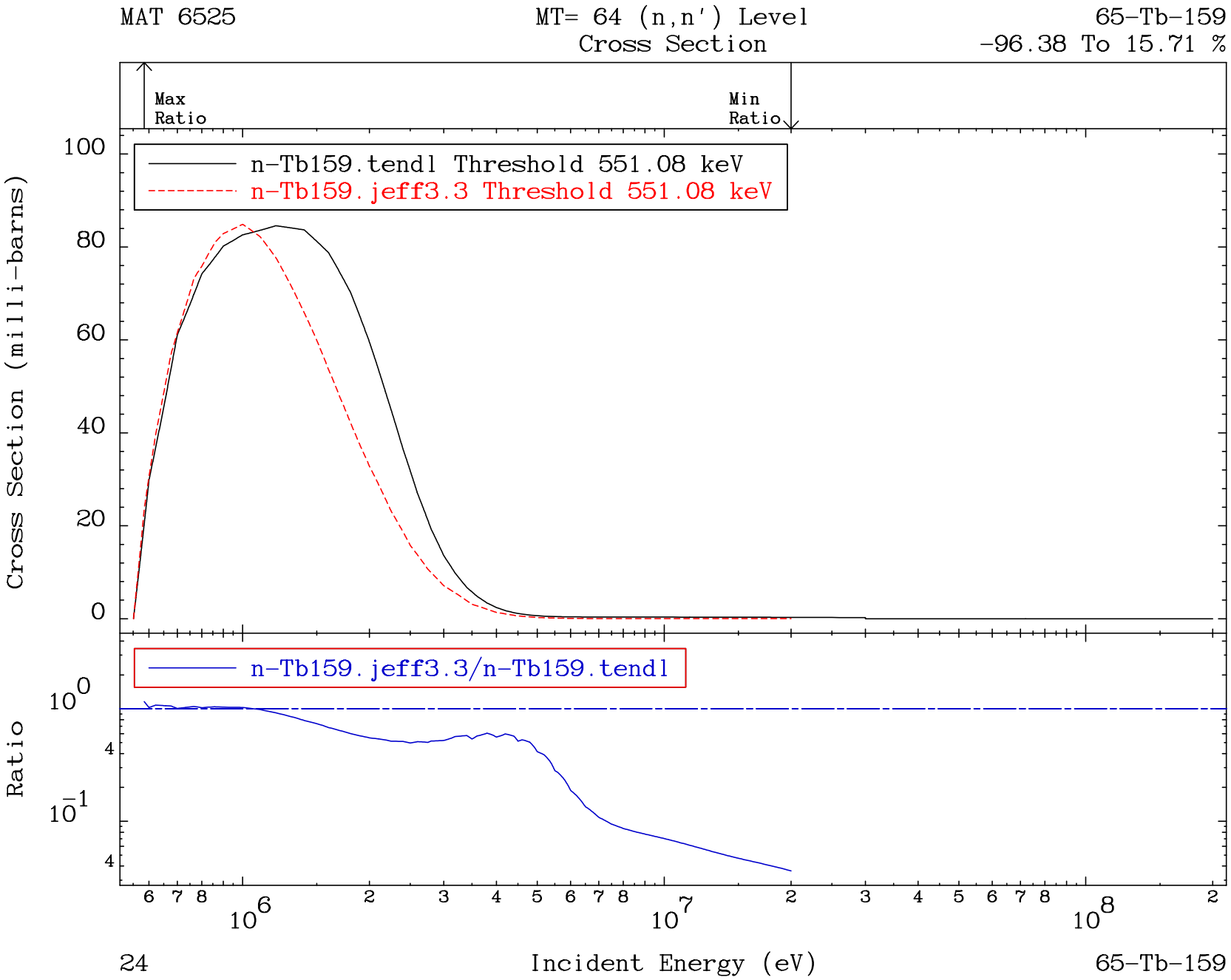

MAT 6525
MT= 59 (n,n') Level
Cross Section
65-Tb-159
-91.69 To -7.464%
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 457.49 keV
n-Tb159.jeff3.3 Threshold 457.49 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
2
10^0
6
4
2
10^-1
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
65-Tb-159

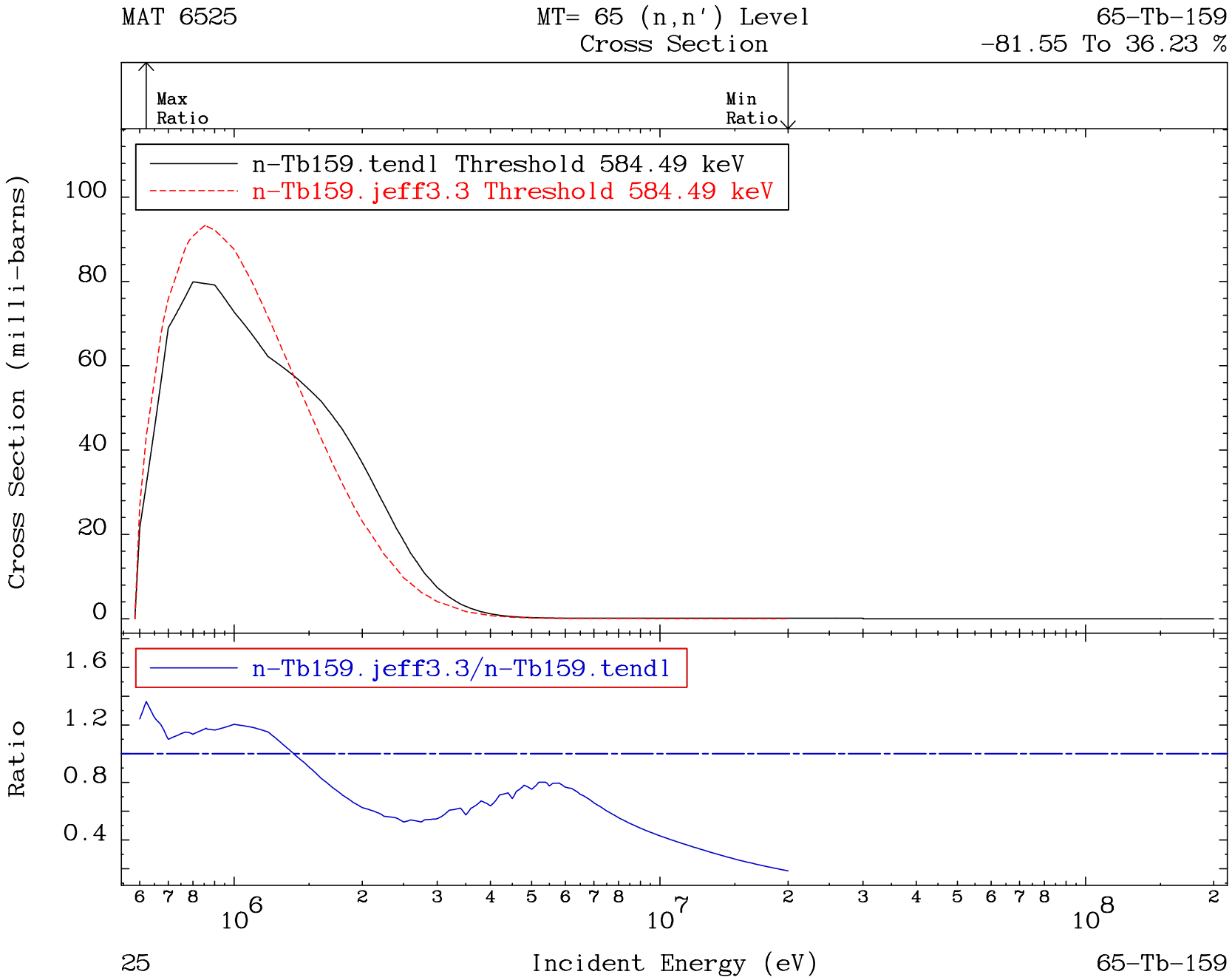

MAT 6525
MT= 60 (n,n') Level
Cross Section
65-Tb-159
-31.78 To 3627. %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 513.64 keV
n-Tb159.jeff3.3 Threshold 513.64 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
10^1
4
4
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
65-Tb-159

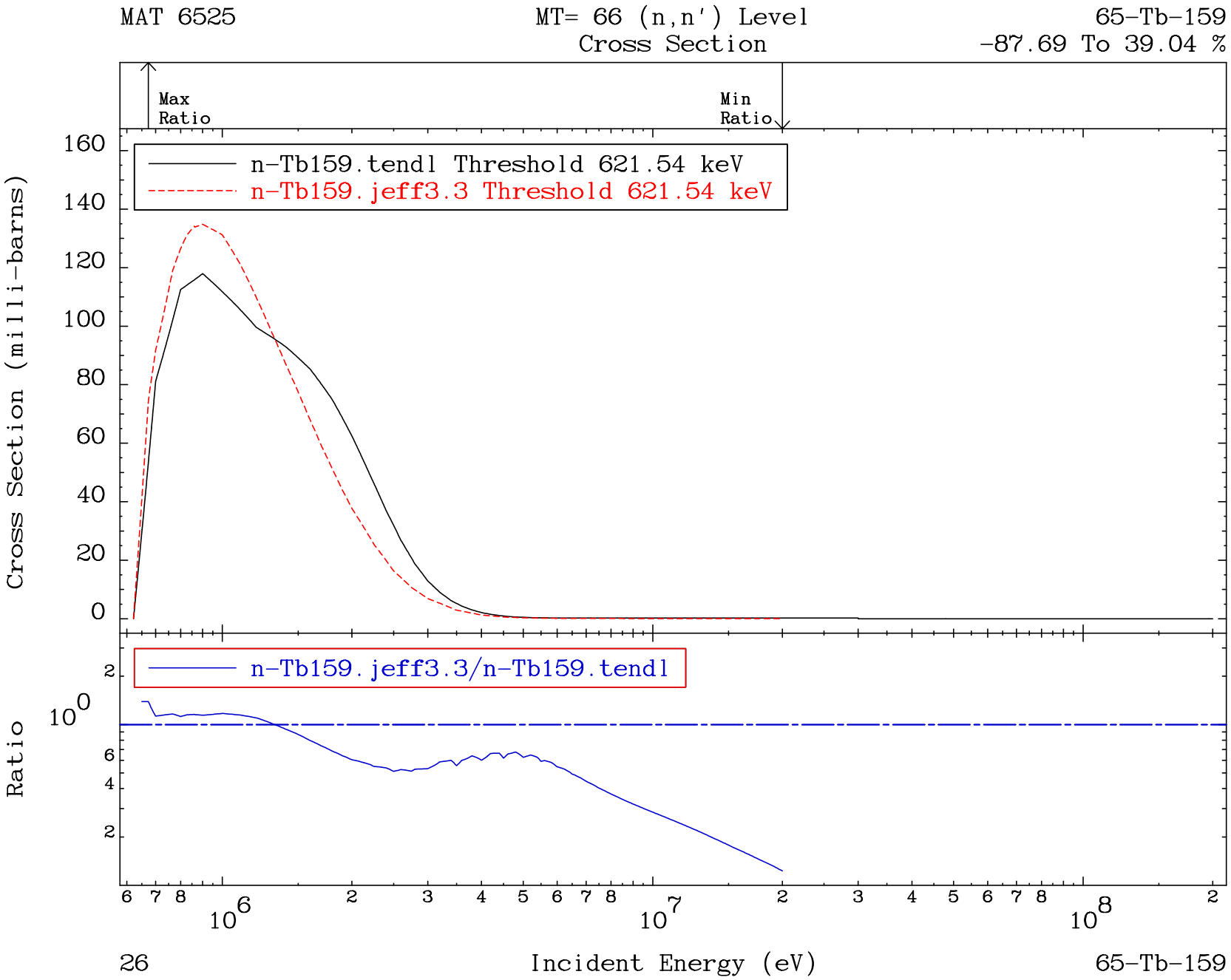

MAT 6525
MT= 61 (n,n') Level
Cross Section
65-Tb-159
-94.15 To 220.6 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 535.38 keV
n-Tb159.jeff3.3 Threshold 535.38 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
4
10^0
4
10^{-1}
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
65-Tb-159

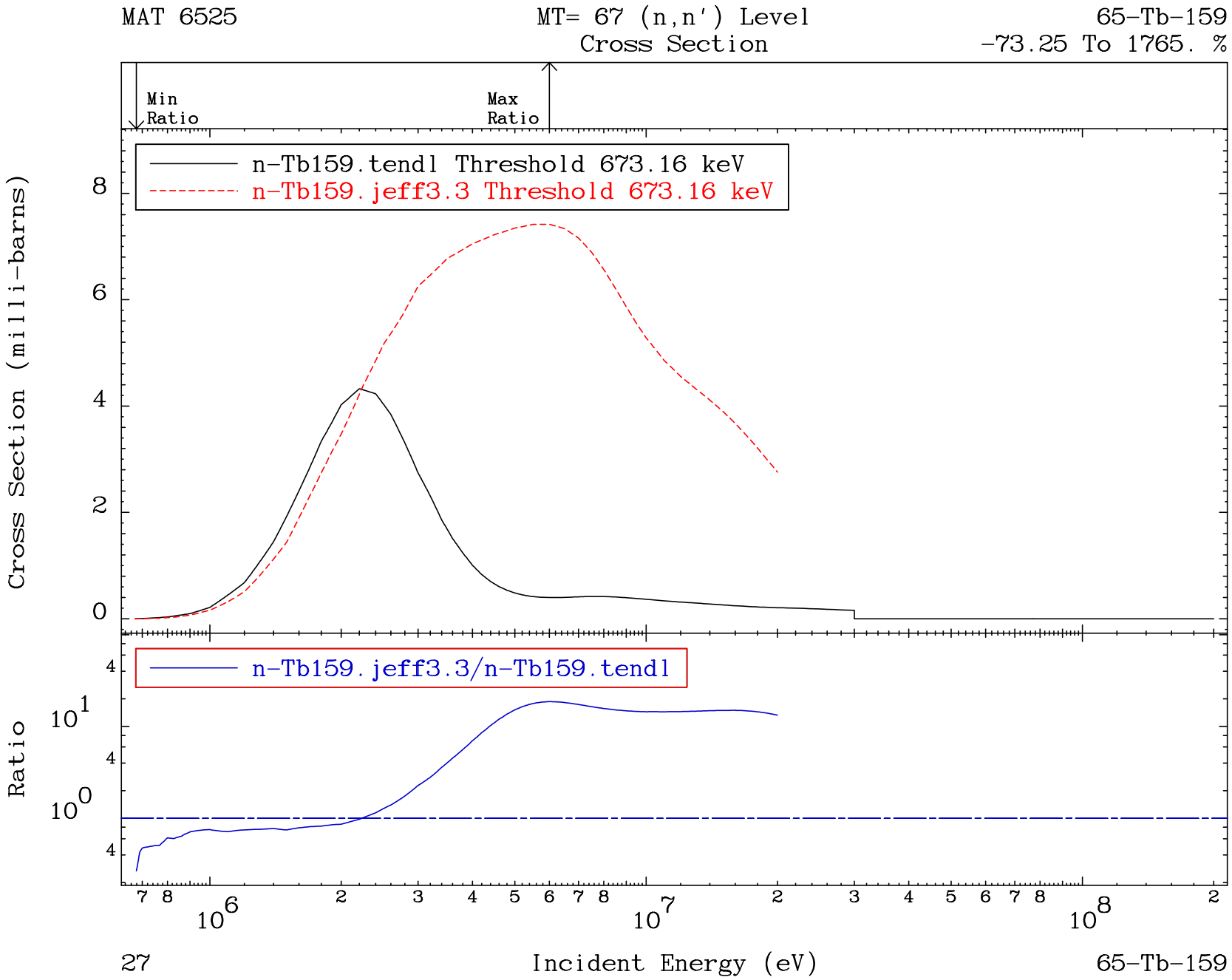

MAT 6525
MT= 62 (n,n') Level
Cross Section
65-Tb-159
-98.26 To 11.34 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 540.11 keV
n-Tb159.jeff3.3 Threshold 540.11 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
10^-1
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
65-Tb-159

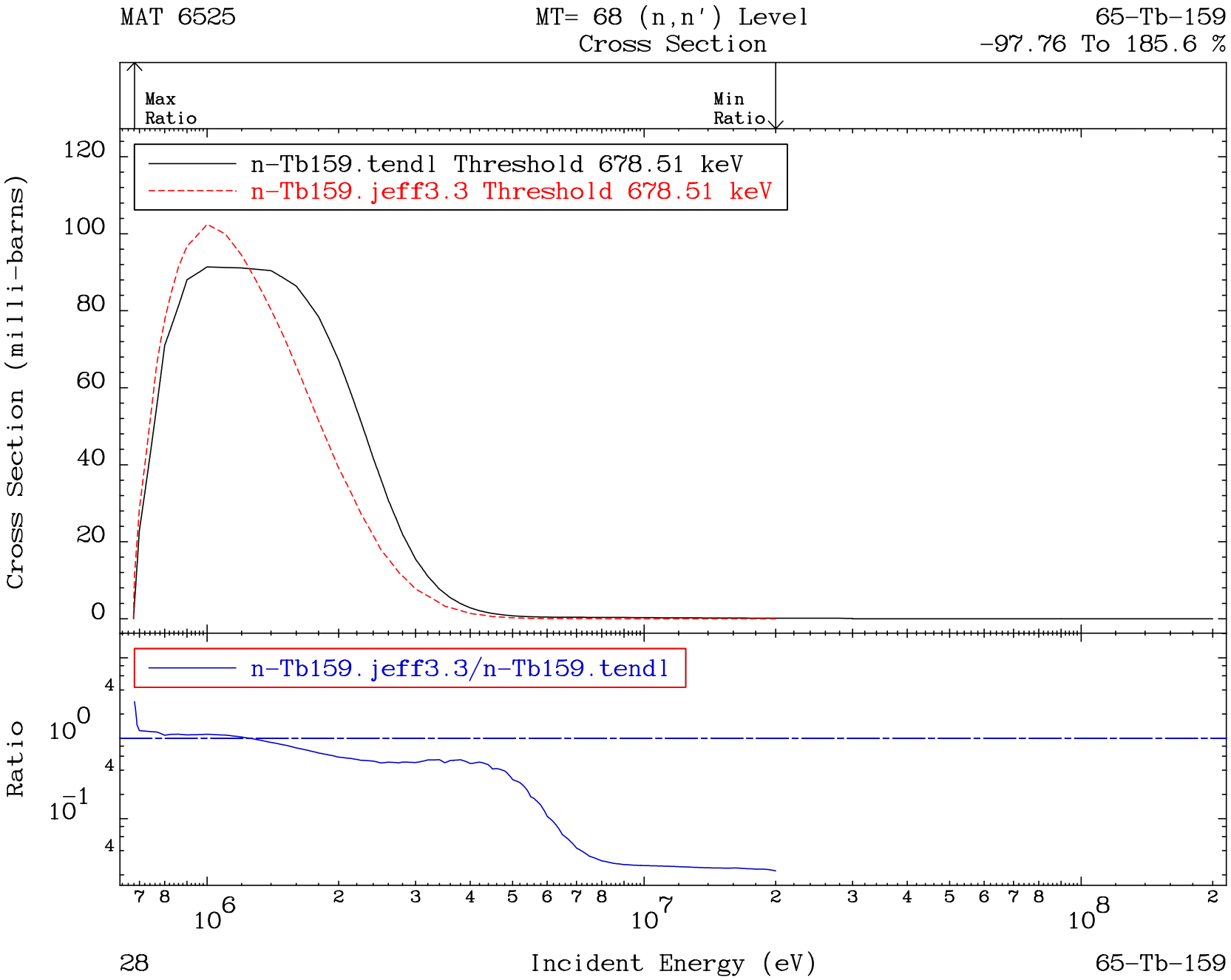

MAT 6525
MT= 63 (n,n') Level
Cross Section
65-Tb-159
-97.93 To 119.4 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 548.56 keV
n-Tb159.jeff3.3 Threshold 548.56 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
4
10^0
4
10^{-1}
4
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
65-Tb-159

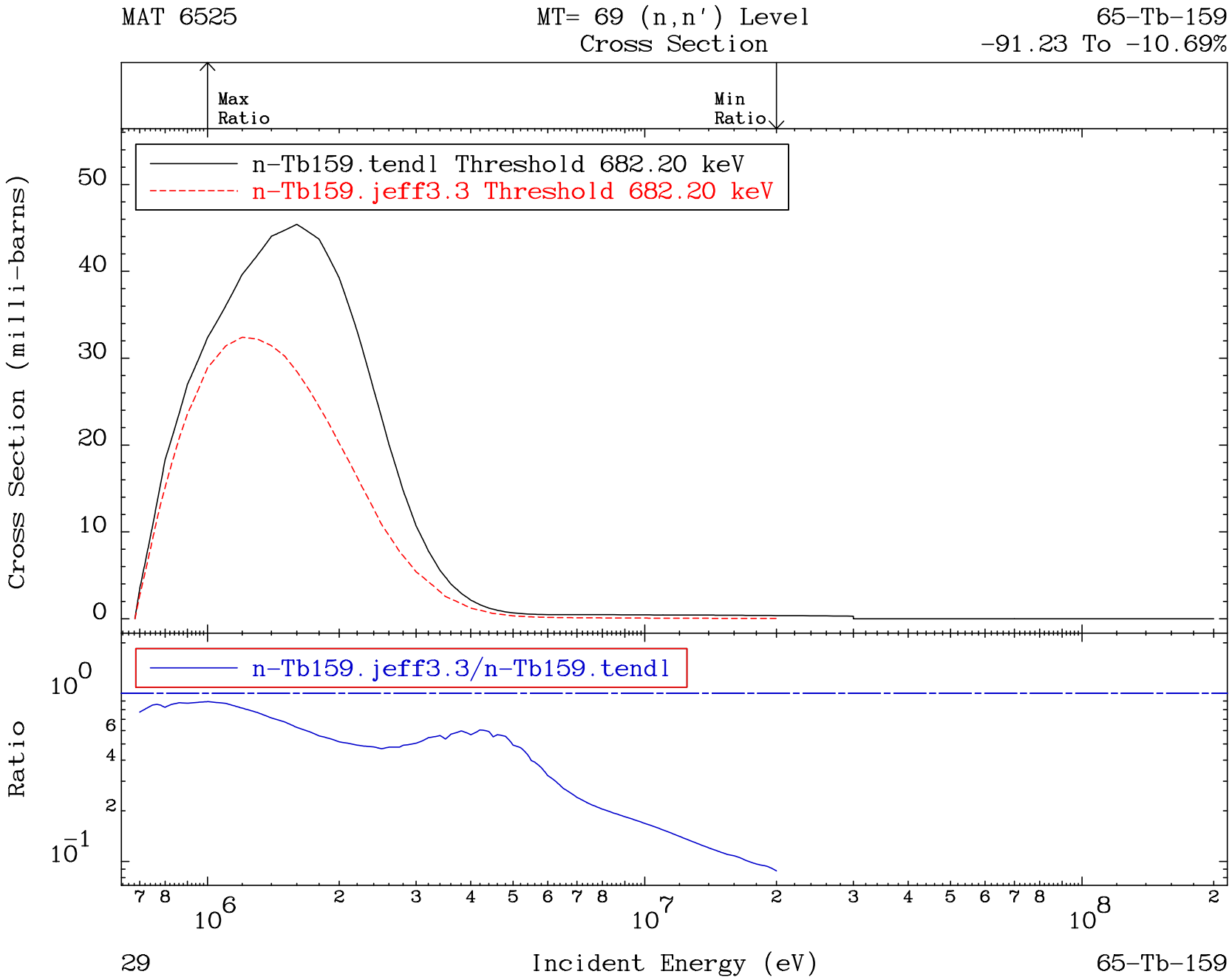

MAT 6525
MT= 64 (n,n') Level
Cross Section
65-Tb-159
-96.38 To 15.71 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 551.08 keV
n-Tb159.jeff3.3 Threshold 551.08 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
4
10^-1
4
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
65-Tb-159

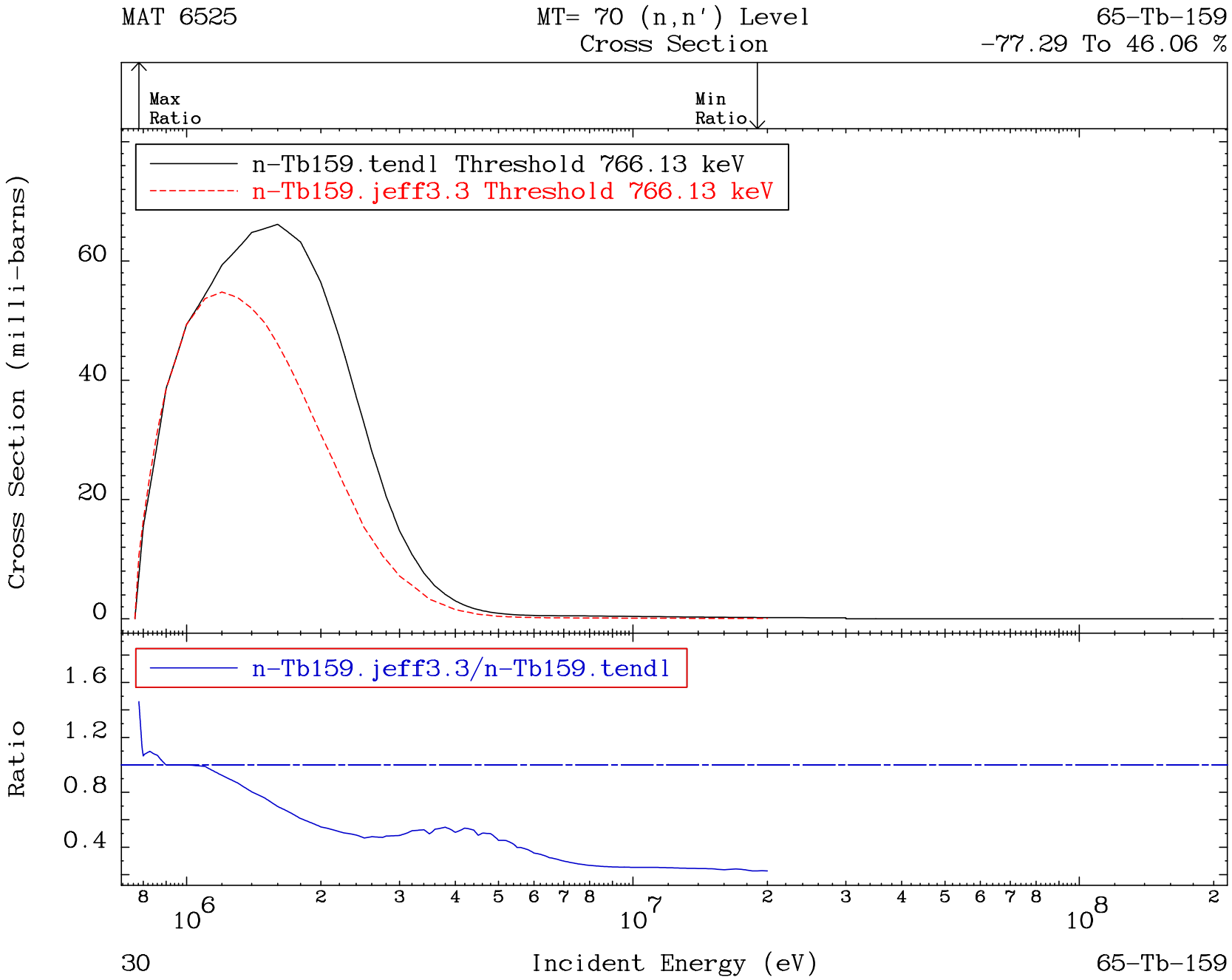

MAT 6525
MT= 65 (n,n') Level
Cross Section
65-Tb-159
-81.55 To 36.23 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 584.49 keV
n-Tb159.jeff3.3 Threshold 584.49 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
1.6
1.2
0.8
0.4
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
65-Tb-159

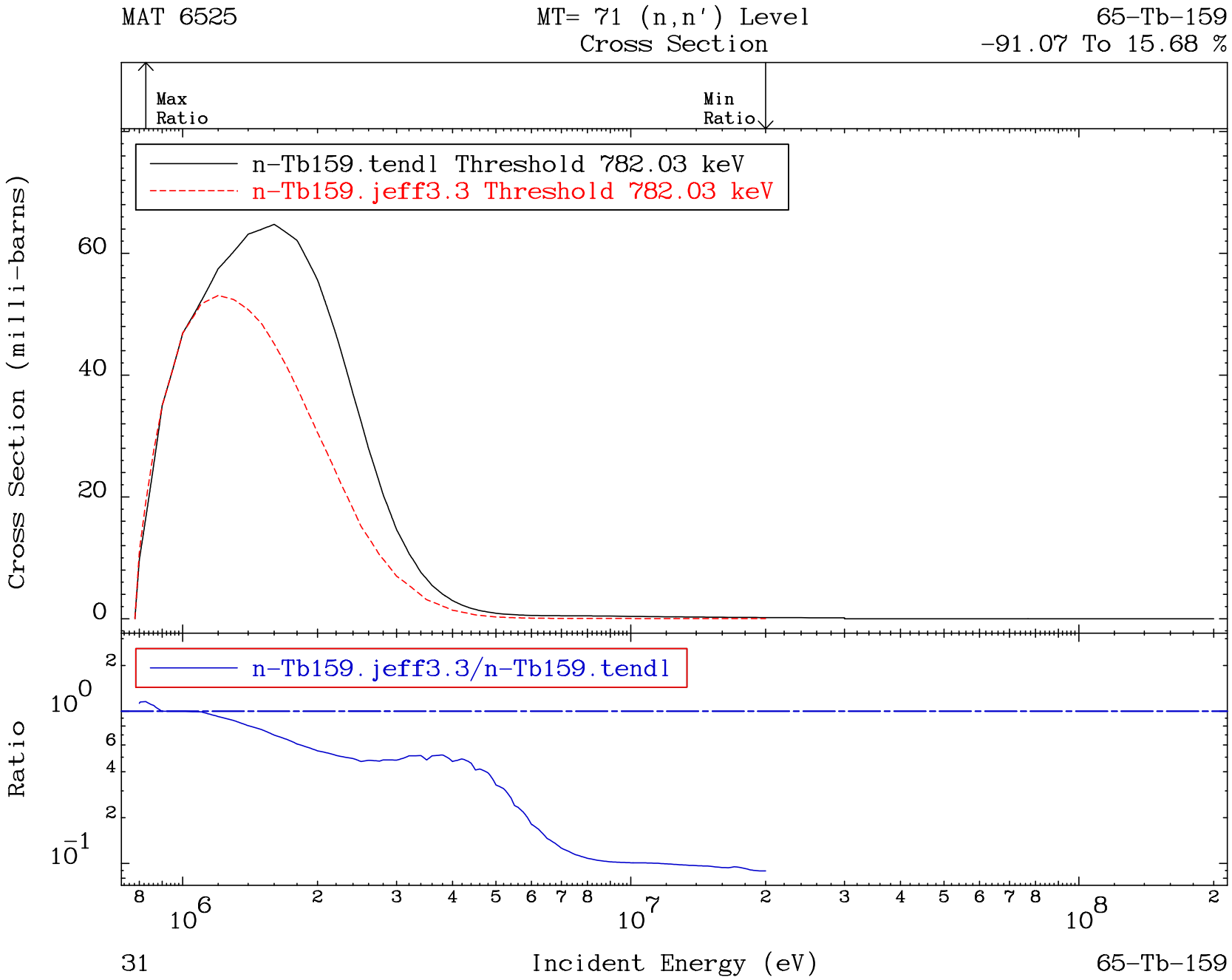

MAT 6525
MT= 66 (n,n') Level
Cross Section
65-Tb-159
-87.69 To 39.04 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 621.54 keV
n-Tb159.jeff3.3 Threshold 621.54 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
2
10^0
6
4
2
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
65-Tb-159

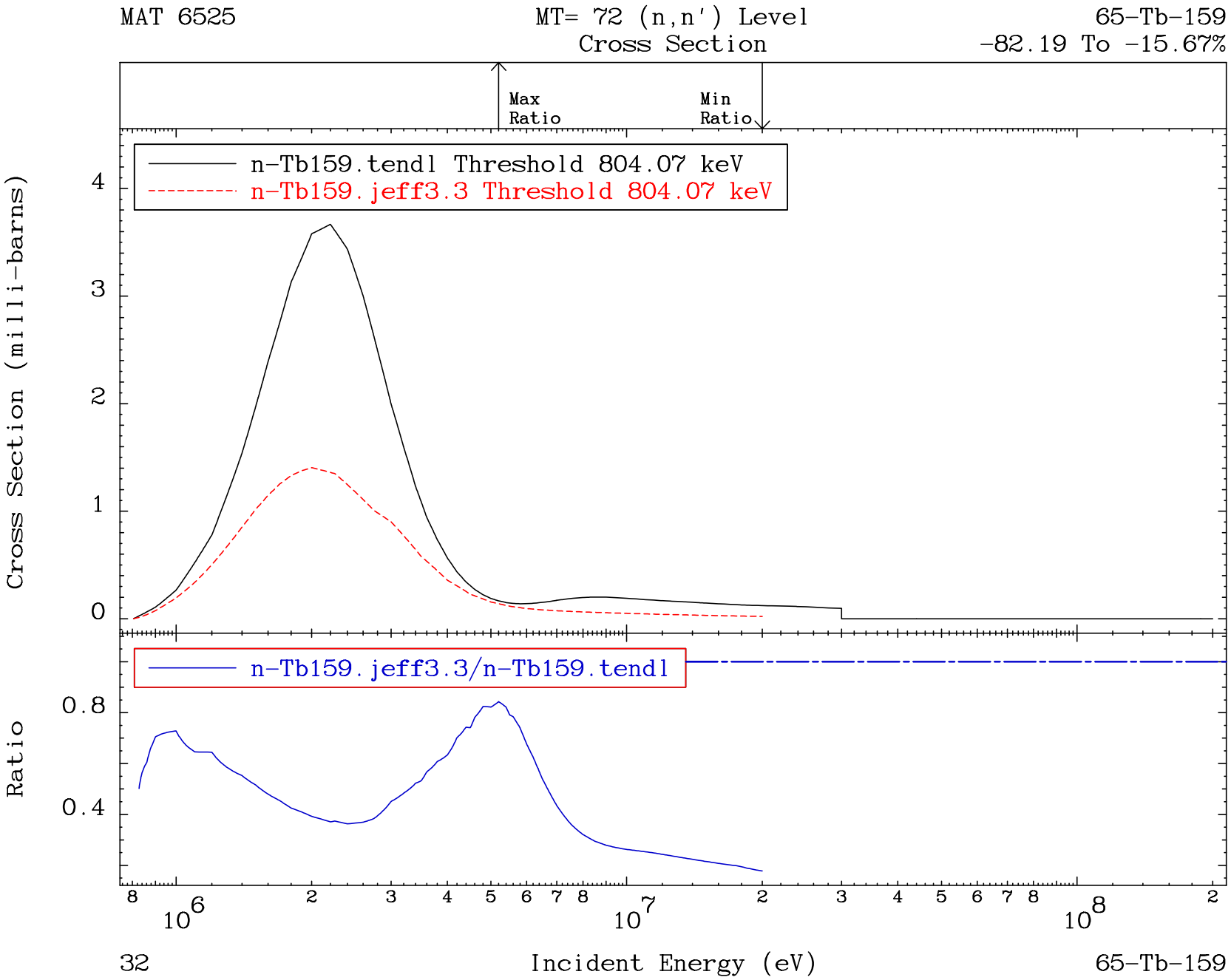

MAT 6525
MT= 67 (n,n') Level
Cross Section
65-Tb-159
-73.25 To 1765. %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 673.16 keV
n-Tb159.jeff3.3 Threshold 673.16 keV
Cross Section (milli-barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
27
65-Tb-159

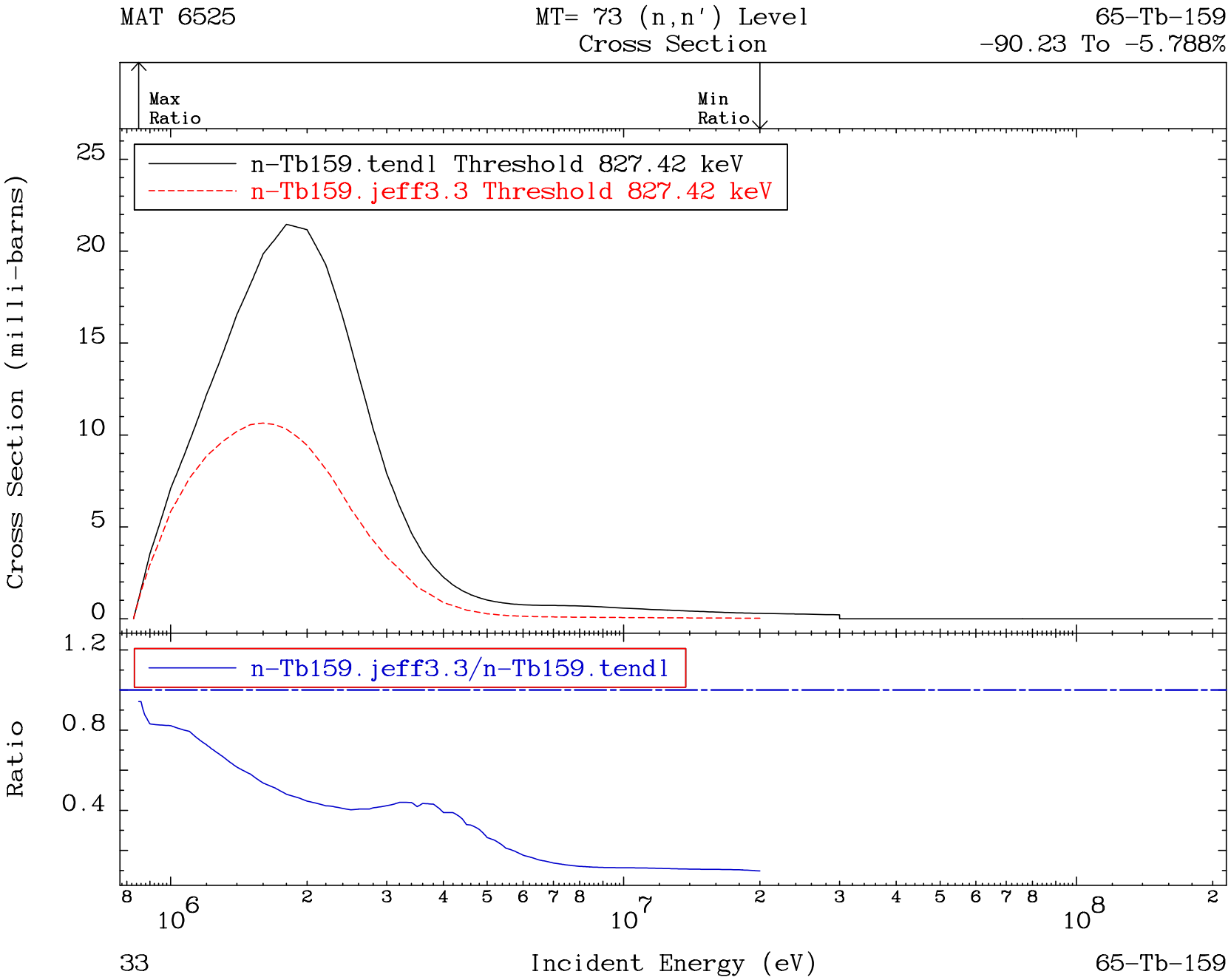

MAT 6525
MT= 68 (n,n') Level
Cross Section
65-Tb-159
-97.76 To 185.6 %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 678.51 keV
n-Tb159.jeff3.3 Threshold 678.51 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
10^-1
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
65-Tb-159

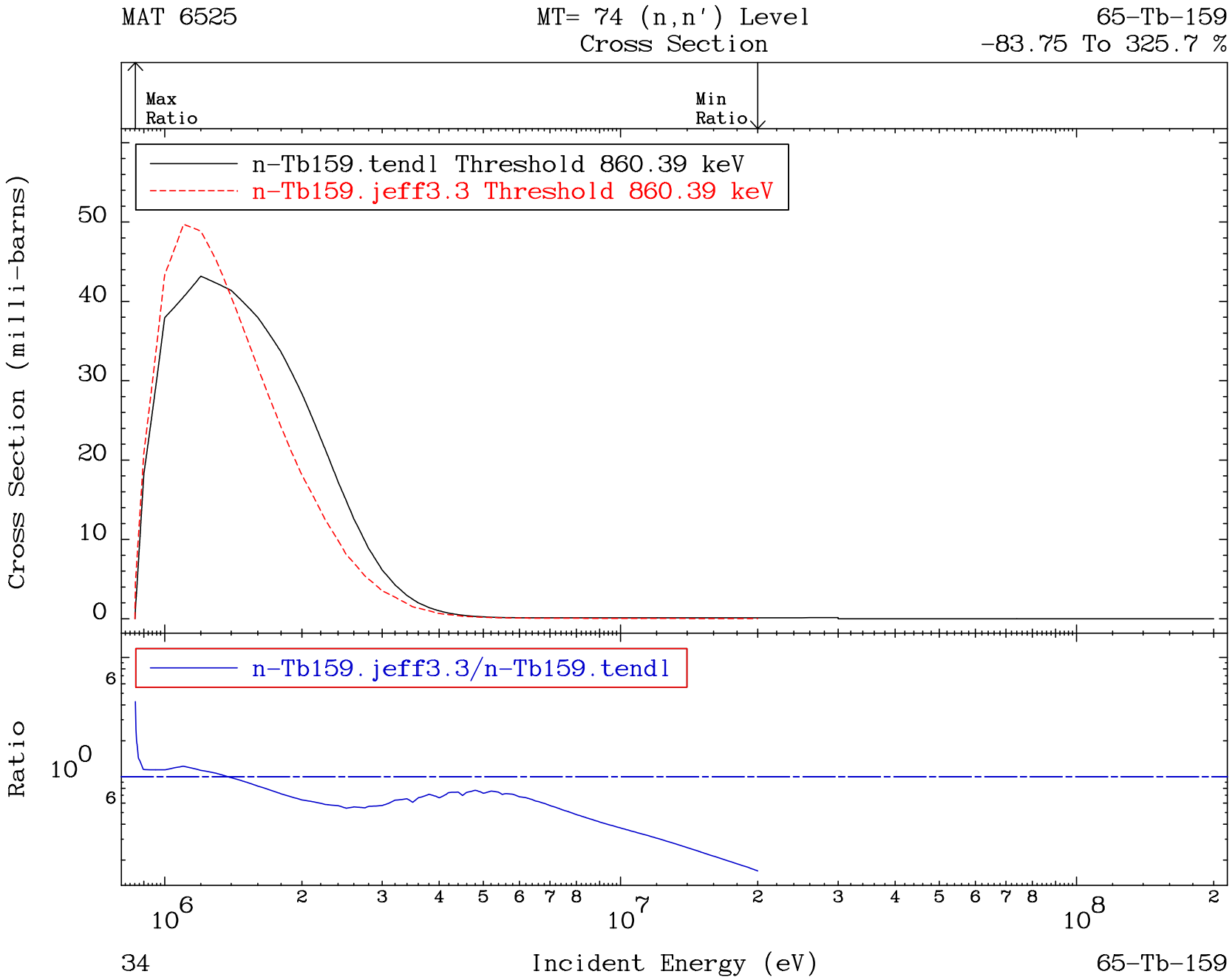

MAT 6525
MT= 69 (n,n') Level
Cross Section
65-Tb-159
-91.23 To -10.69%
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 682.20 keV
n-Tb159.jeff3.3 Threshold 682.20 keV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
6
4
2
10^-1
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
65-Tb-159

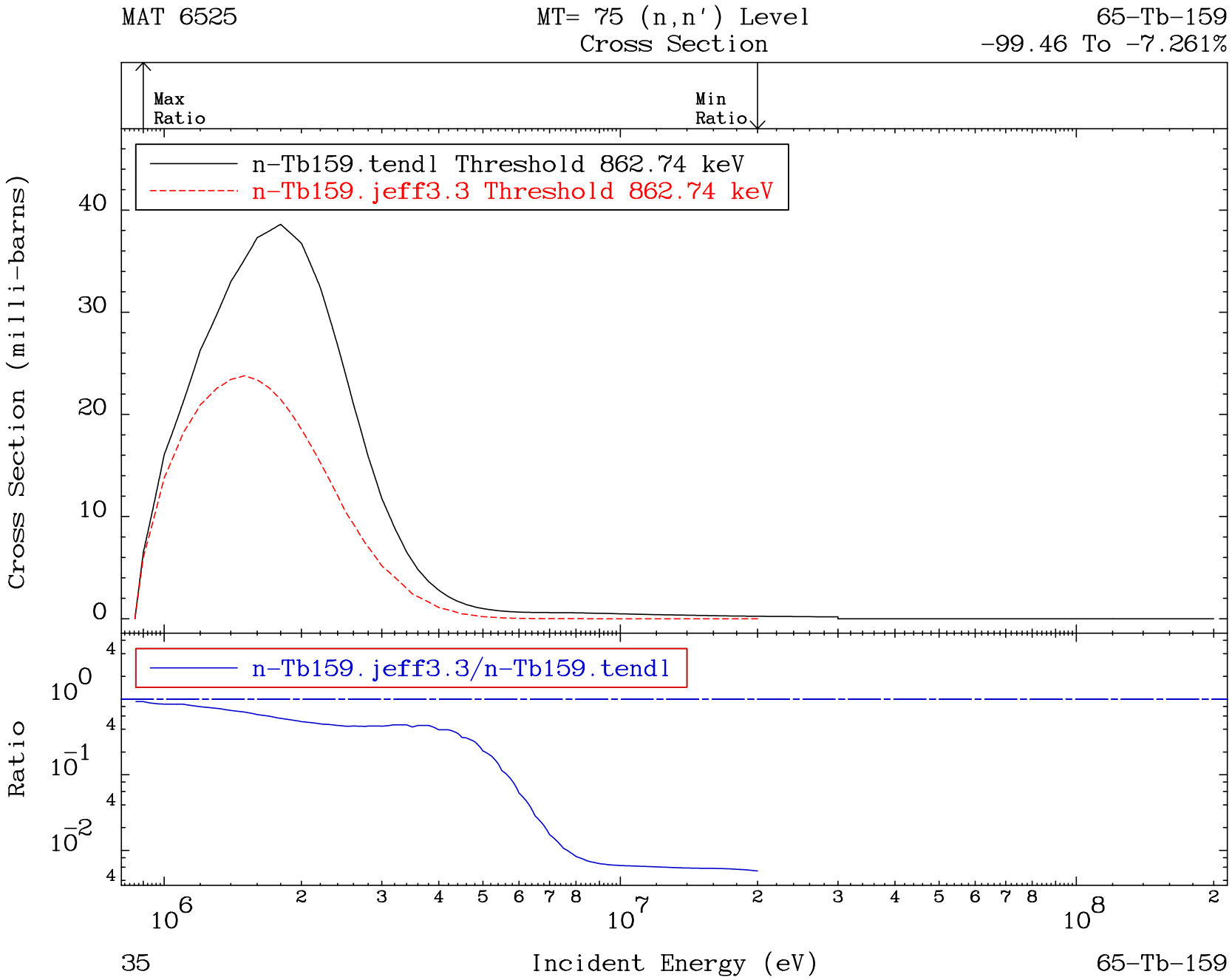

MAT 6525
MT= 70 (n,n') Level
Cross Section
65-Tb-159
-77.29 To 46.06 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 766.13 keV
n-Tb159.jeff3.3 Threshold 766.13 keV
Cross Section (milli-barns)
60
40
20
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
1.6
1.2
0.8
0.4
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
65-Tb-159

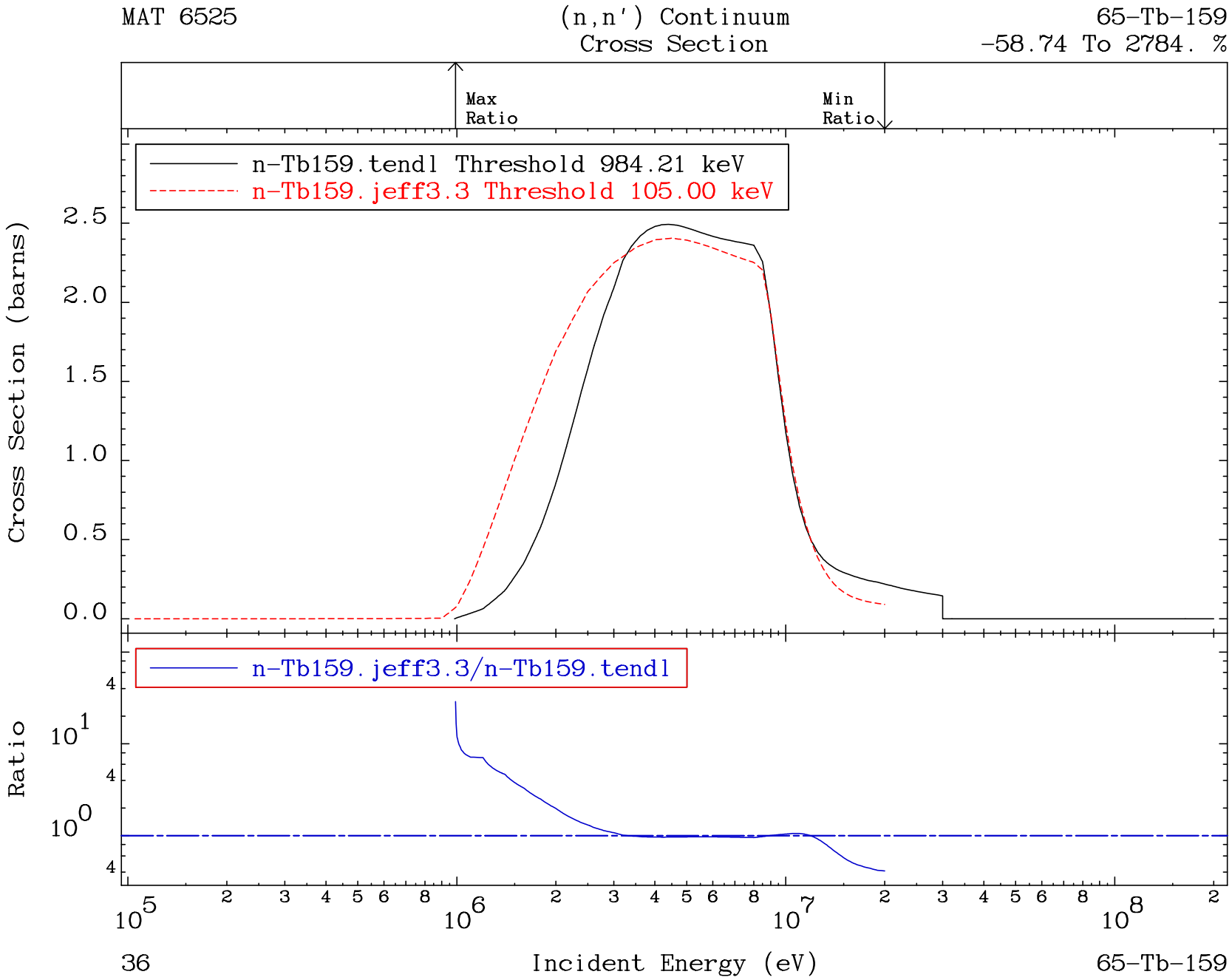

MAT 6525
MT= 71 (n,n') Level
Cross Section
65-Tb-159
-91.07 To 15.68 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 782.03 keV
n-Tb159.jeff3.3 Threshold 782.03 keV
Cross Section (milli-barns)
60
40
20
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
2
10^0
6
4
2
10^-1
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
65-Tb-159

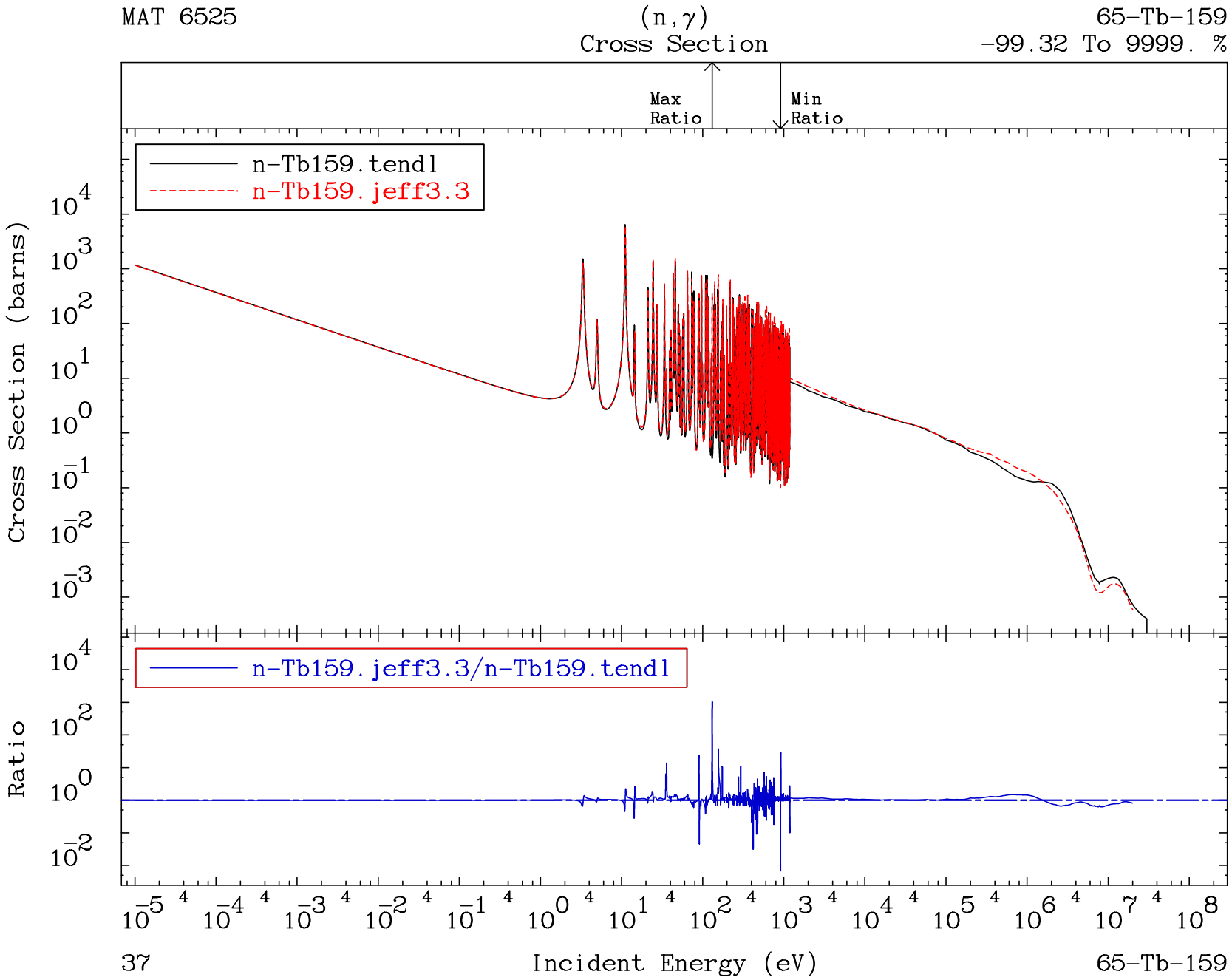

MAT 6525
MT= 72 (n,n') Level
Cross Section
65-Tb-159
-82.19 To -15.67%
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 804.07 keV
n-Tb159.jeff3.3 Threshold 804.07 keV
Cross Section (milli-barns)
0
1
2
3
4
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
0.4
0.8
8
2
3
4
5
6
7
8
10^6
10^7
10^8
32
Incident Energy (eV)
65-Tb-159

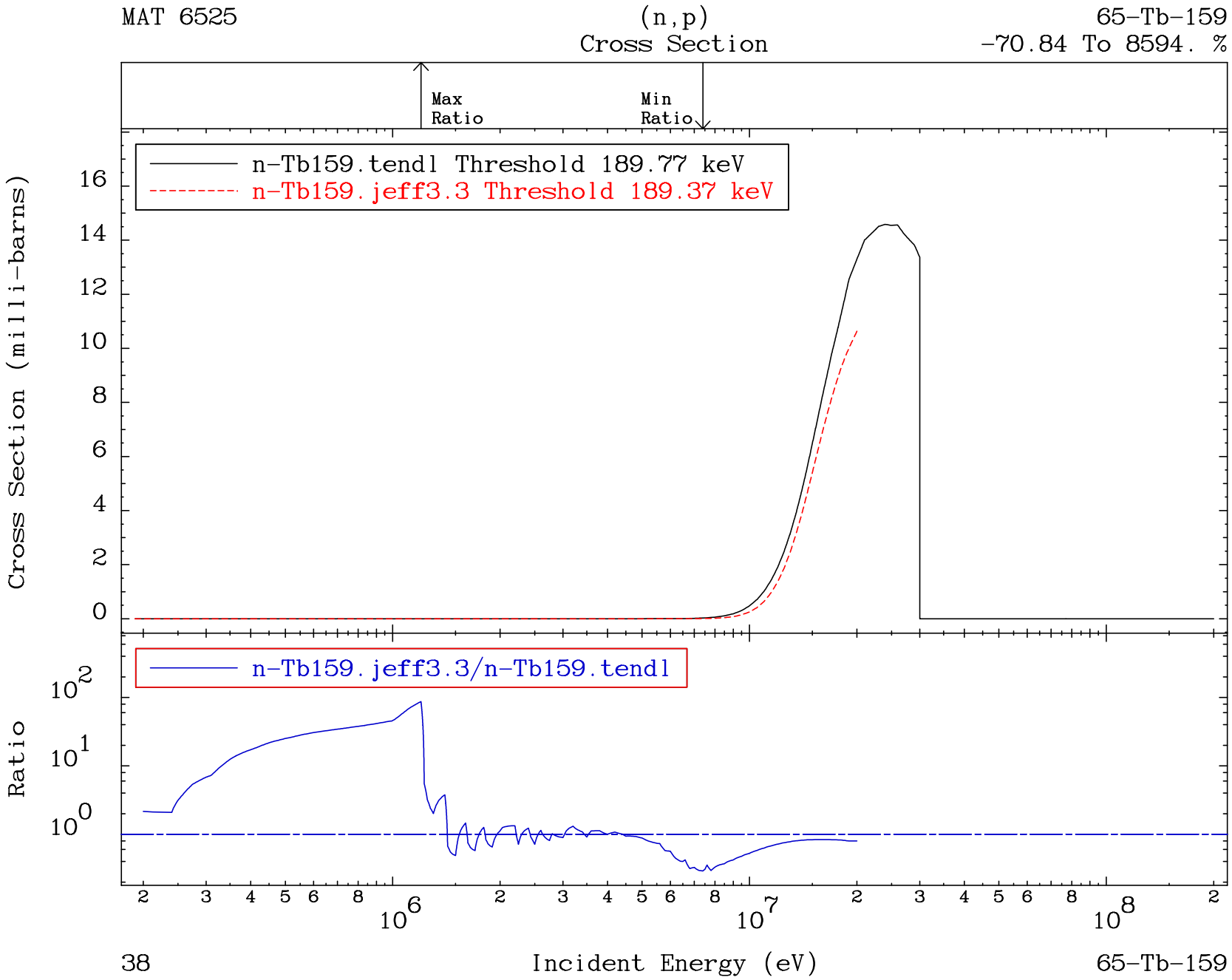

MAT 6525
MT= 73 (n,n') Level
Cross Section
65-Tb-159
-90.23 To -5.788%
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 827.42 keV
n-Tb159.jeff3.3 Threshold 827.42 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Tb159.jeff3.3/n-Tb159.tendl
1.2
0.8
0.4
Ratio
8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2
10^6
10^7
10^8
33
Incident Energy (eV)
65-Tb-159

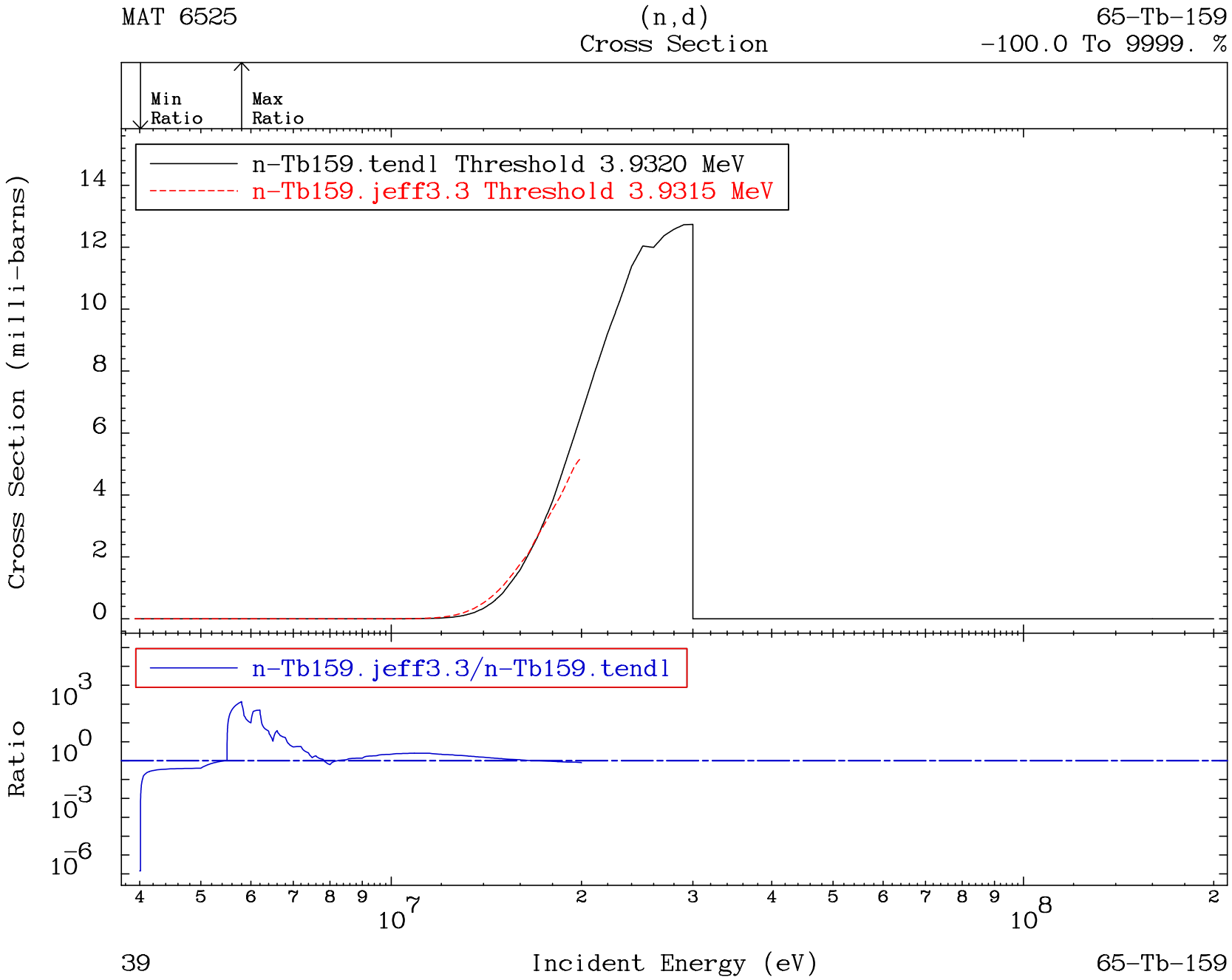

MAT 6525
MT= 74 (n,n') Level
Cross Section
65-Tb-159
-83.75 To 325.7 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 860.39 keV
n-Tb159.jeff3.3 Threshold 860.39 keV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
6
10^0
6
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
65-Tb-159

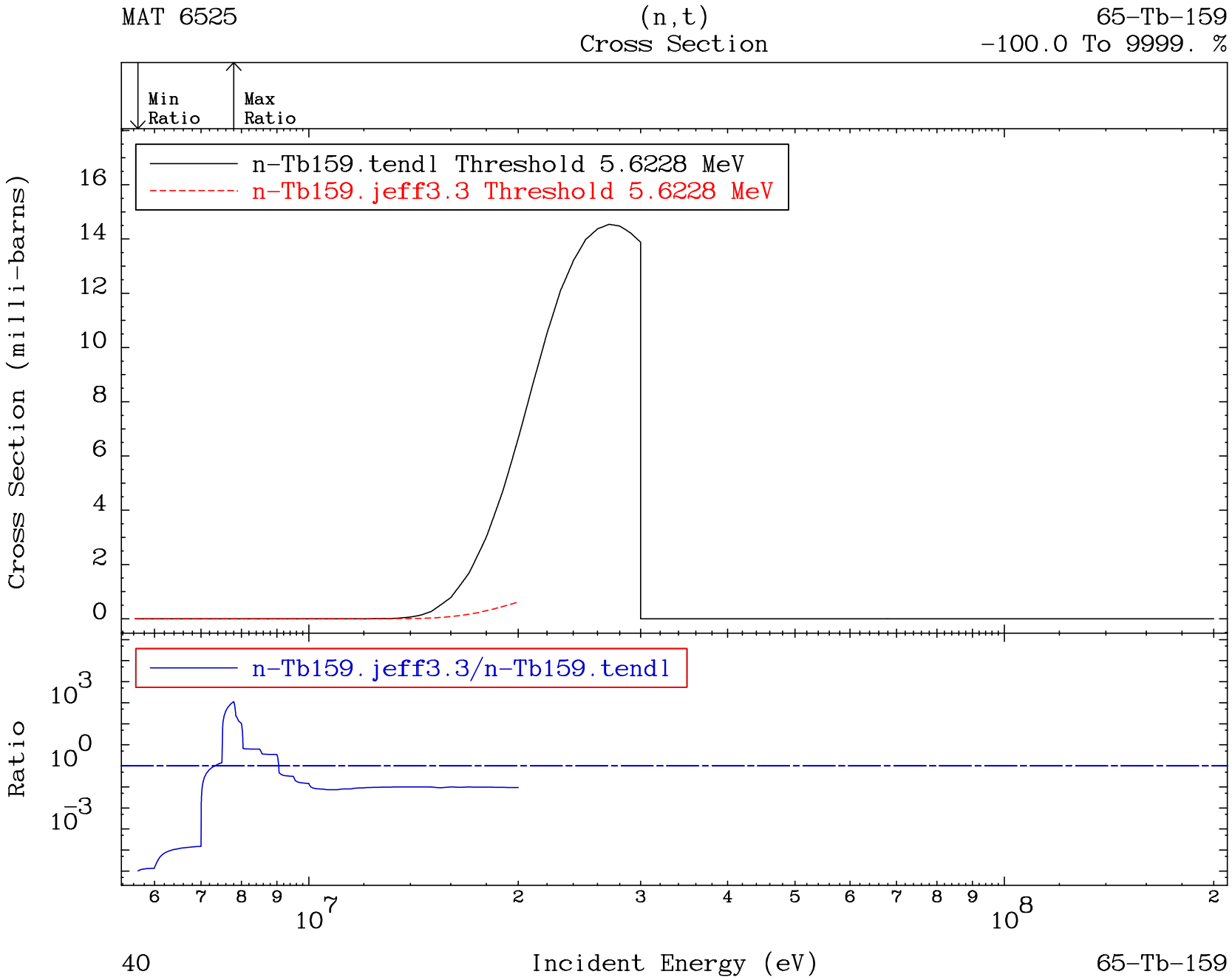

MAT 6525
MT= 75 (n,n') Level
Cross Section
65-Tb-159
-99.46 To -7.261%
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 862.74 keV
n-Tb159.jeff3.3 Threshold 862.74 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
10^-1
10^-2
10^6
10^7
10^8
35
Incident Energy (eV)
65-Tb-159

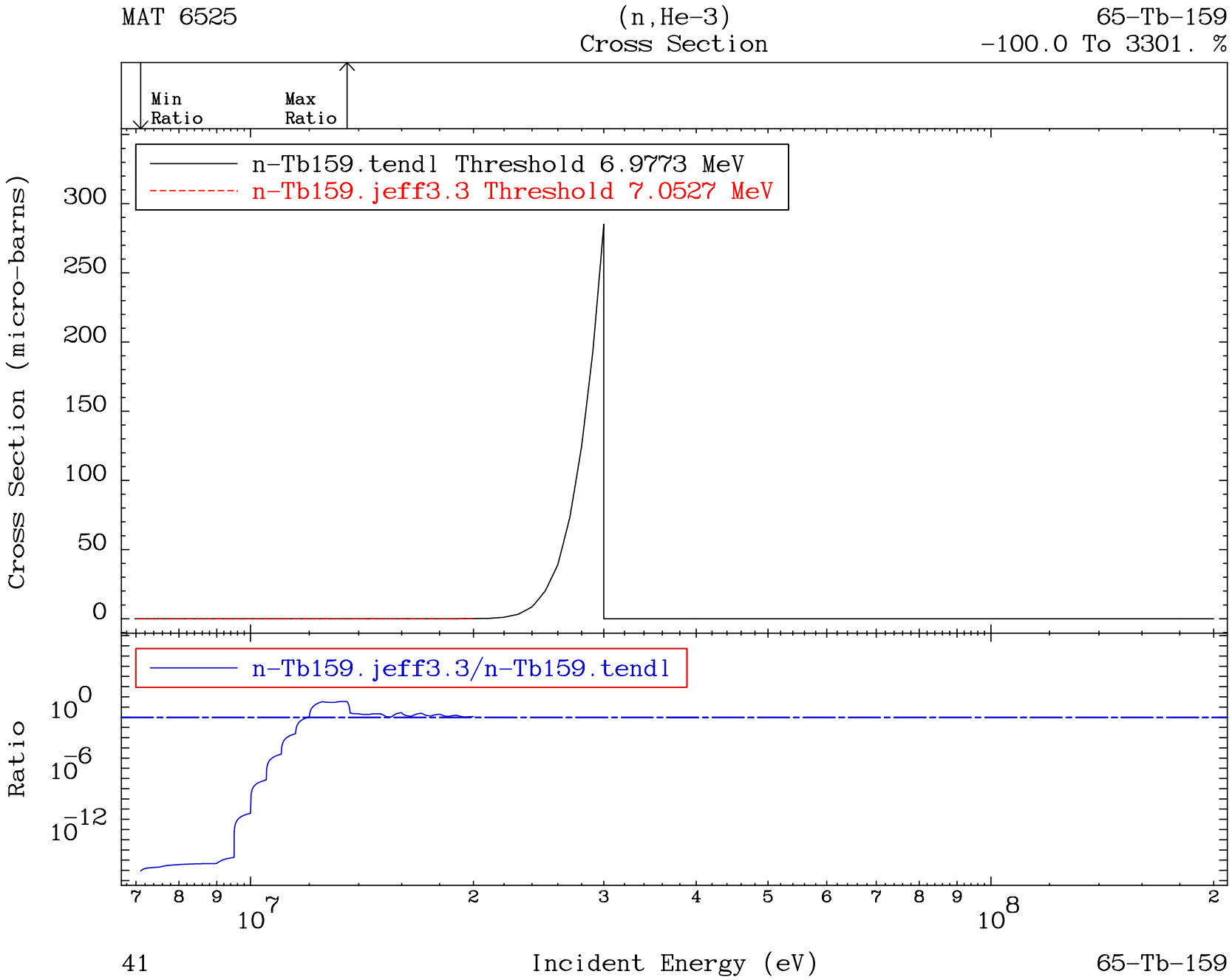

MAT 6525
(n,n') Continuum
Cross Section
65-Tb-159
-58.74 To 2784. %
Max
Ratio
Min
Ratio
n-Tb159.tendl Threshold 984.21 keV
n-Tb159.jeff3.3 Threshold 105.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^1
10^0
10^5
10^6
10^7
10^8
Incident Energy (eV)
36
65-Tb-159

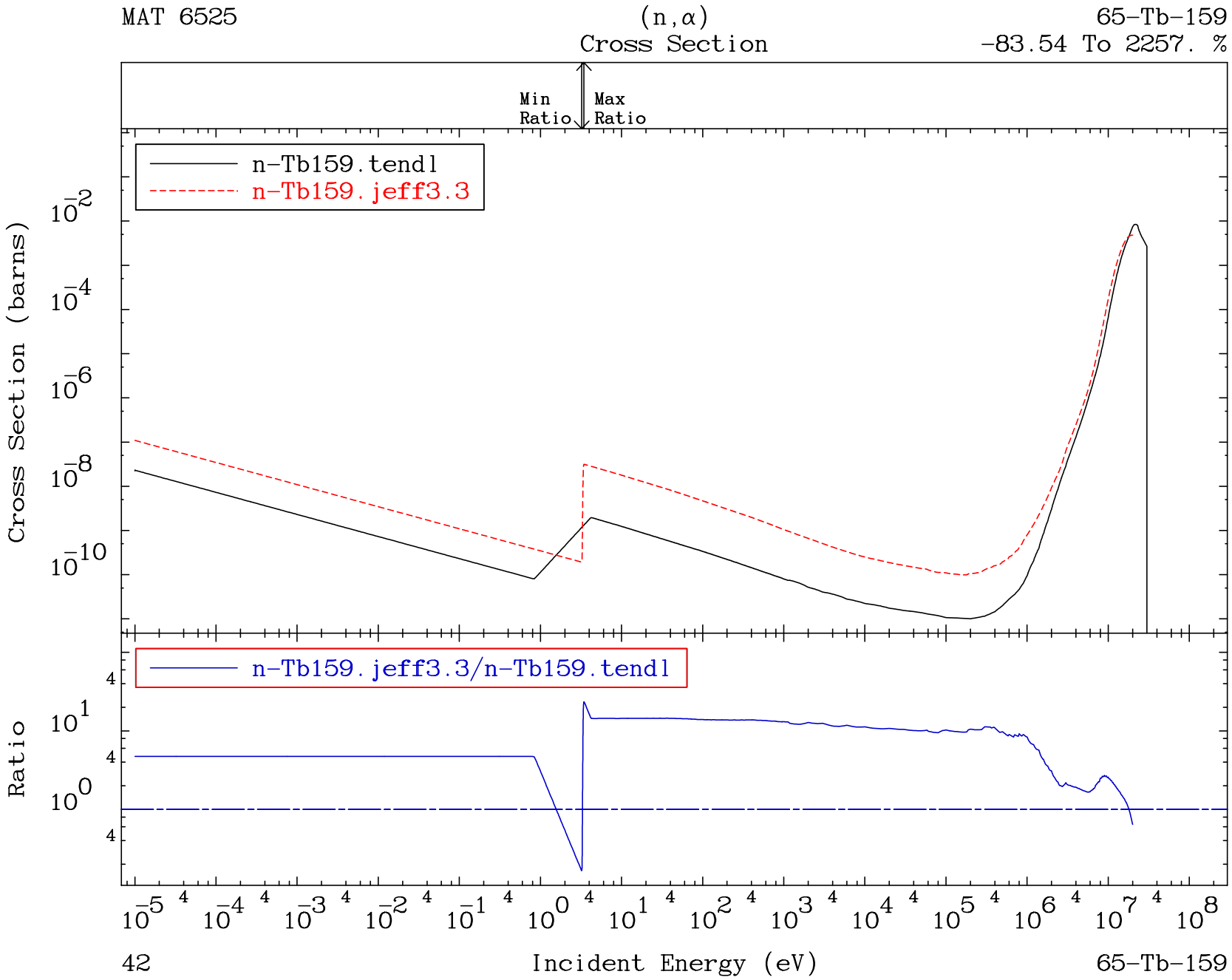

MAT 6525
(n,γ)
Cross Section
65-Tb-159
-99.32 To 9999. %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
37
65-Tb-159

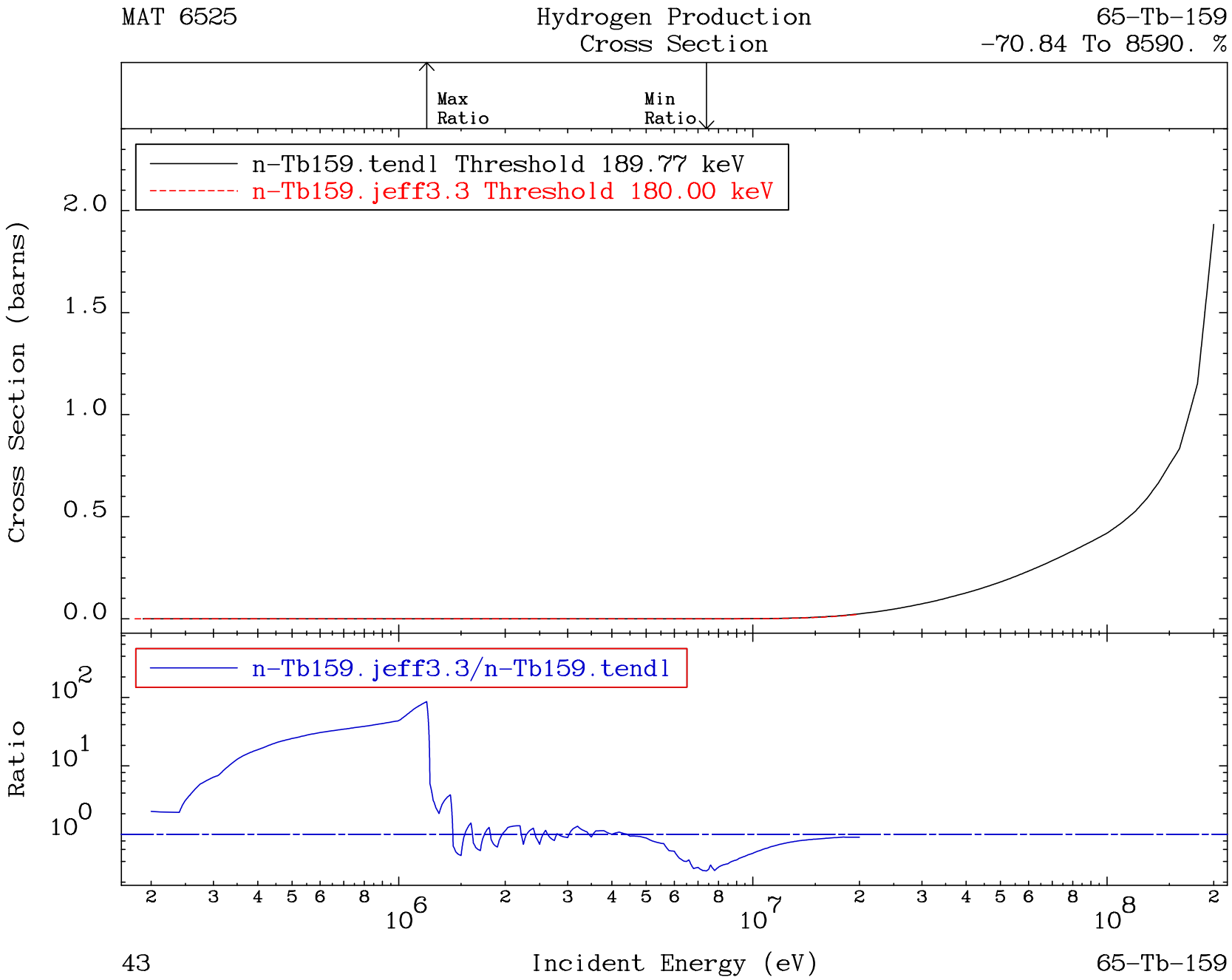

MAT 6525
(n,p)
Cross Section
65-Tb-159
-70.84 To 8594. %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 189.77 keV
n-Tb159.jeff3.3 Threshold 189.37 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
10^1
10^2
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
38
Incident Energy (eV)
65-Tb-159

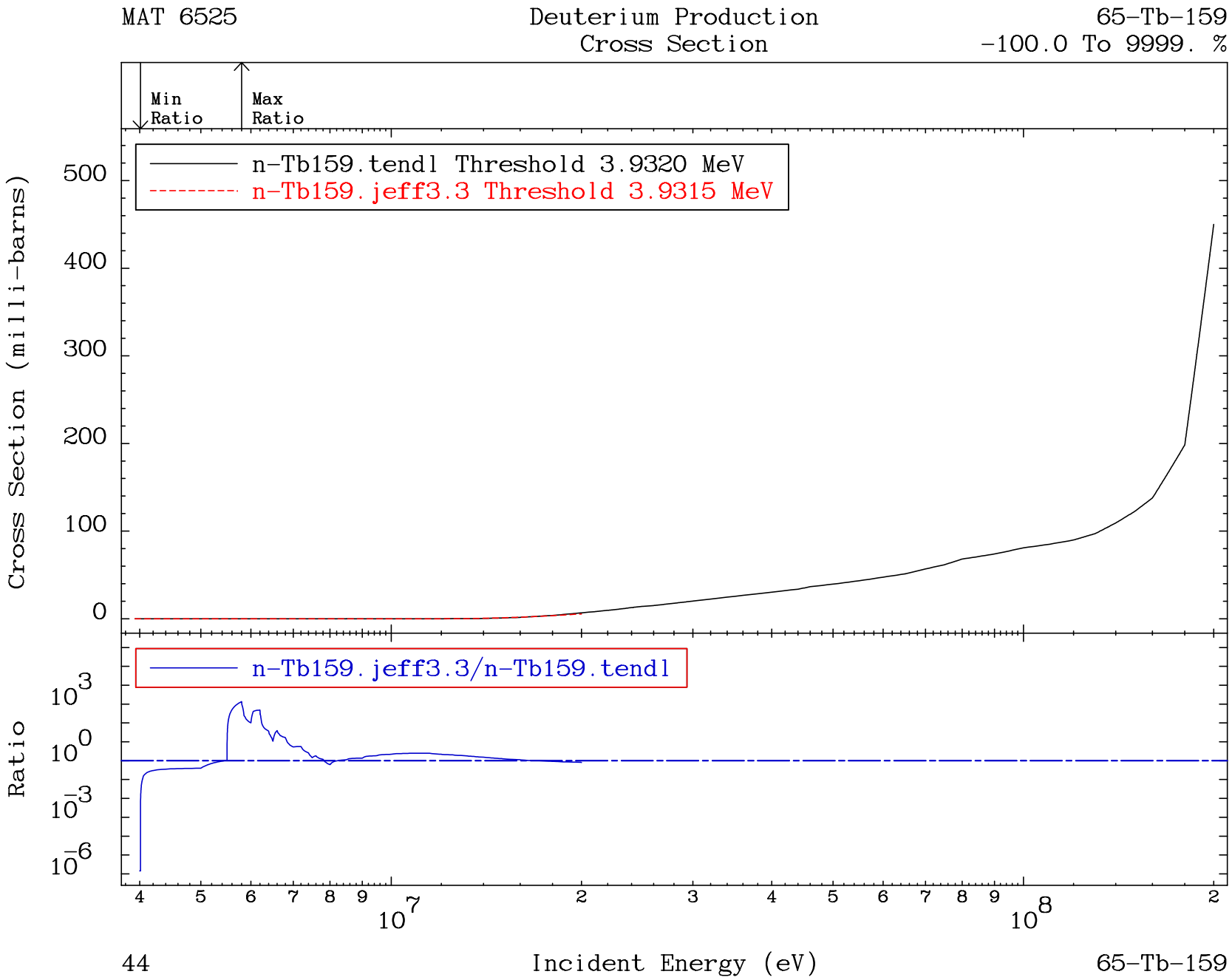

MAT 6525
(n,d)
Cross Section
65-Tb-159
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 3.9320 MeV
n-Tb159.jeff3.3 Threshold 3.9315 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^3
10^0
10^-3
10^-6
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
65-Tb-159

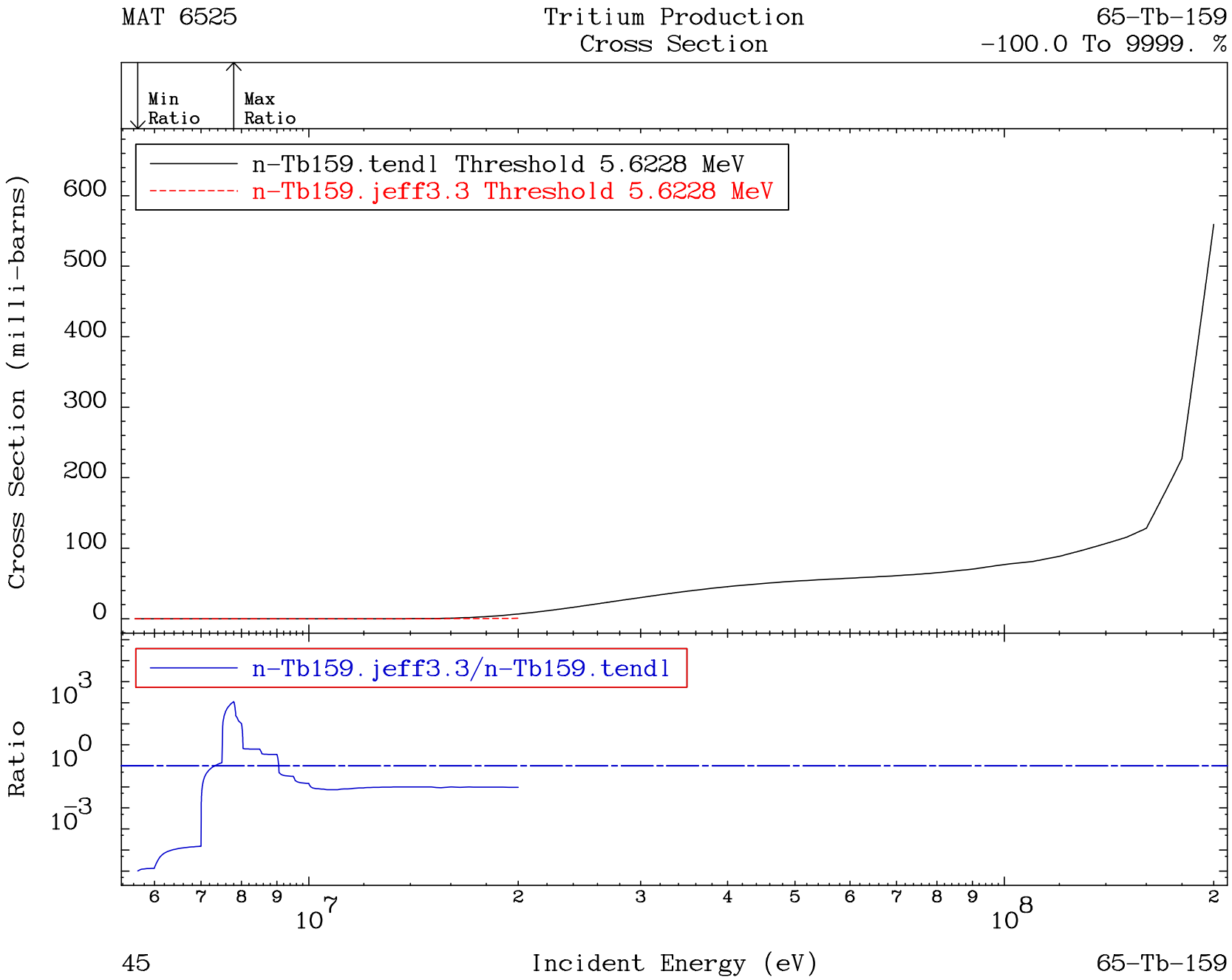

MAT 6525
(n,t)
Cross Section
65-Tb-159
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 5.6228 MeV
n-Tb159.jeff3.3 Threshold 5.6228 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^3
10^0
10^-3
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
65-Tb-159

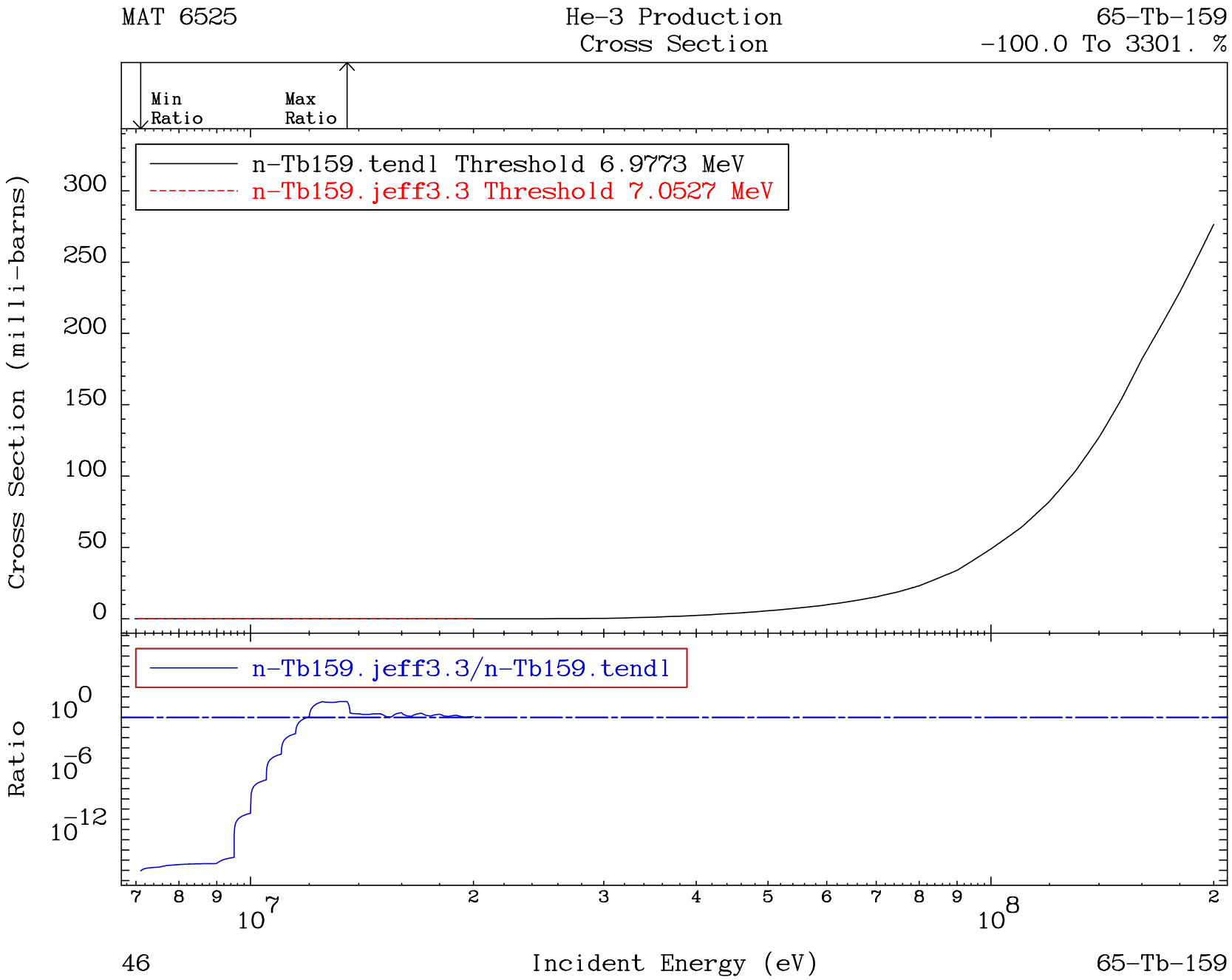

MAT 6525
(n,He-3)
Cross Section
65-Tb-159
-100.0 To 3301. %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 6.9773 MeV
n-Tb159.jeff3.3 Threshold 7.0527 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
10^-6
10^-12
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
65-Tb-159

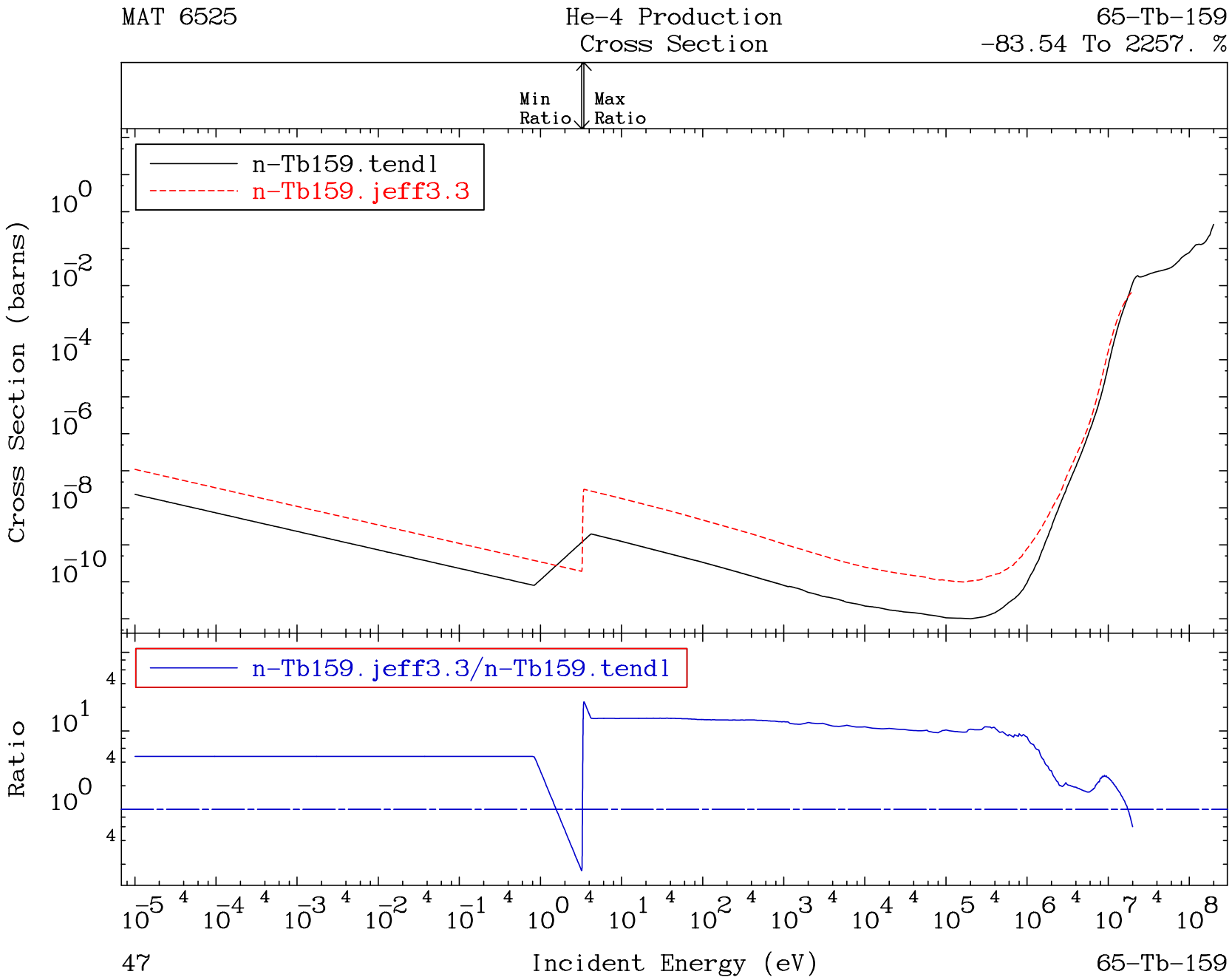

MAT 6525
(n,α)
Cross Section
65-Tb-159
-83.54 To 2257. %
Min Ratio
Max Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
42
65-Tb-159

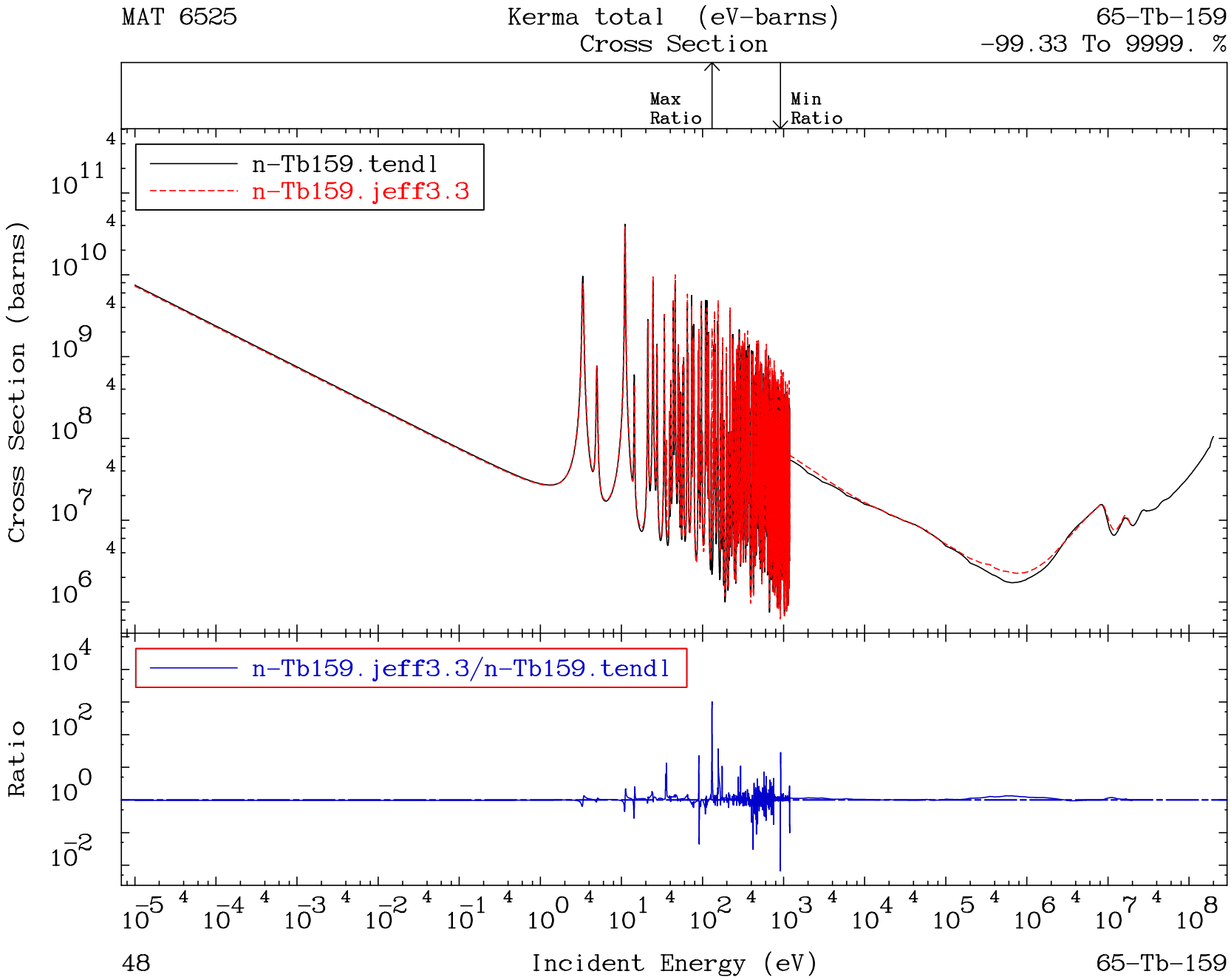

MAT 6525
Hydrogen Production
Cross Section
65-Tb-159
-70.84 To 8590. %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 189.77 keV
n-Tb159.jeff3.3 Threshold 180.00 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^2
10^1
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
43
Incident Energy (eV)
65-Tb-159

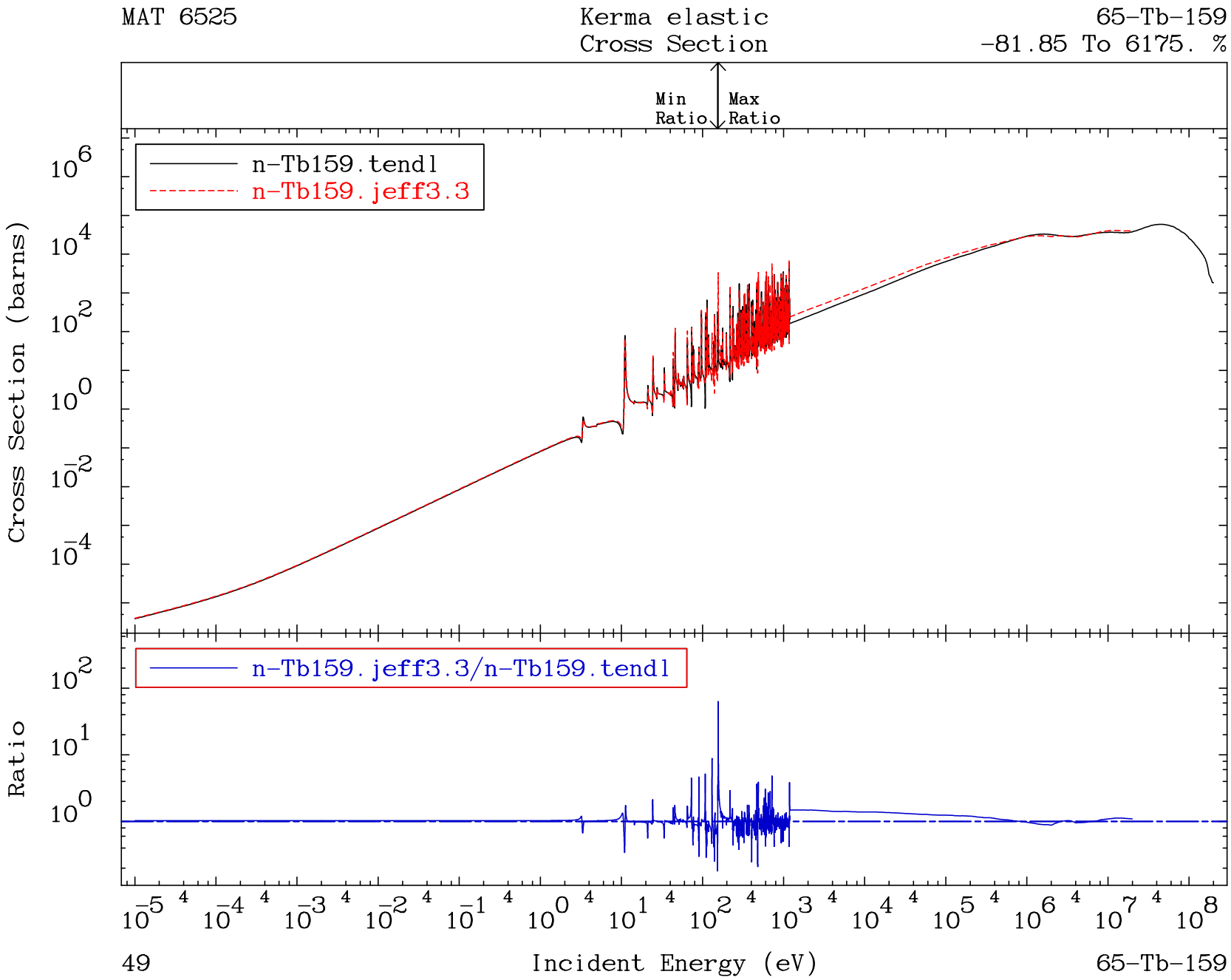

MAT 6525
Deuterium Production
Cross Section
65-Tb-159
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 3.9320 MeV
n-Tb159.jeff3.3 Threshold 3.9315 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^3
10^0
10^-3
10^-6
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
65-Tb-159

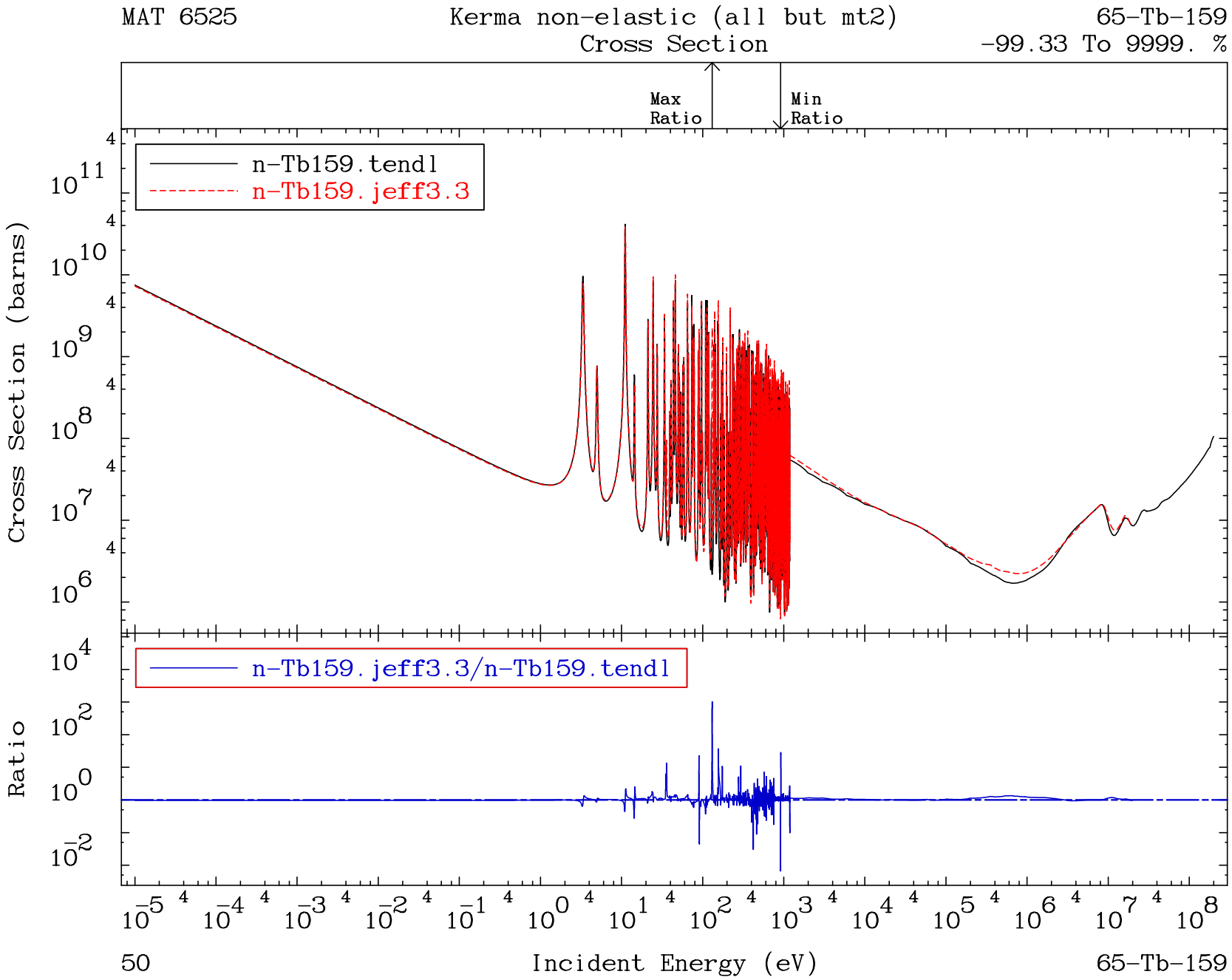

MAT 6525
Tritium Production
Cross Section
65-Tb-159
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 5.6228 MeV
n-Tb159.jeff3.3 Threshold 5.6228 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^3
10^0
10^-3
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
65-Tb-159

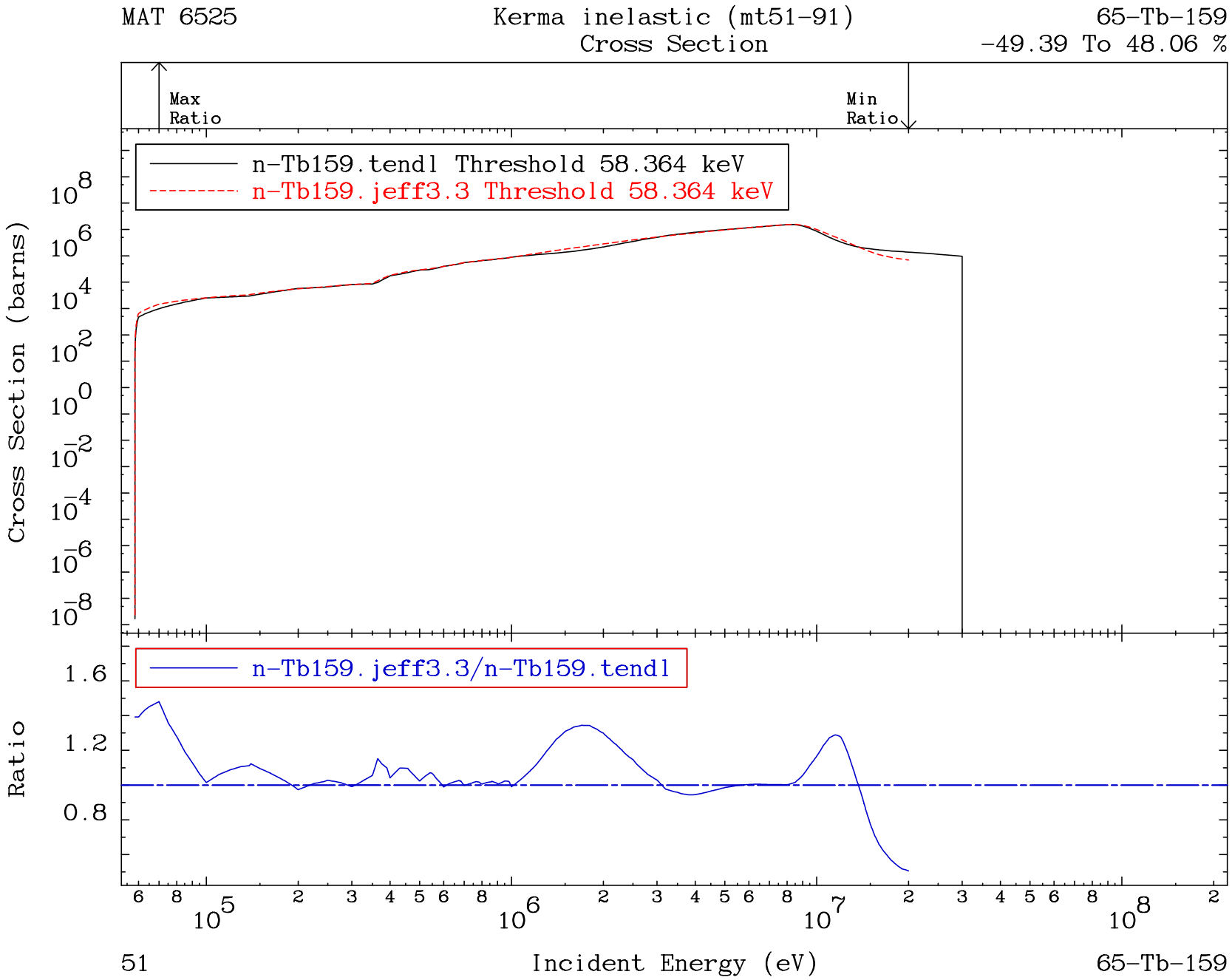

MAT 6525
He-3 Production
Cross Section
65-Tb-159
-100.0 To 3301. %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 6.9773 MeV
n-Tb159.jeff3.3 Threshold 7.0527 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
10^0
10^-6
10^-12
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
65-Tb-159

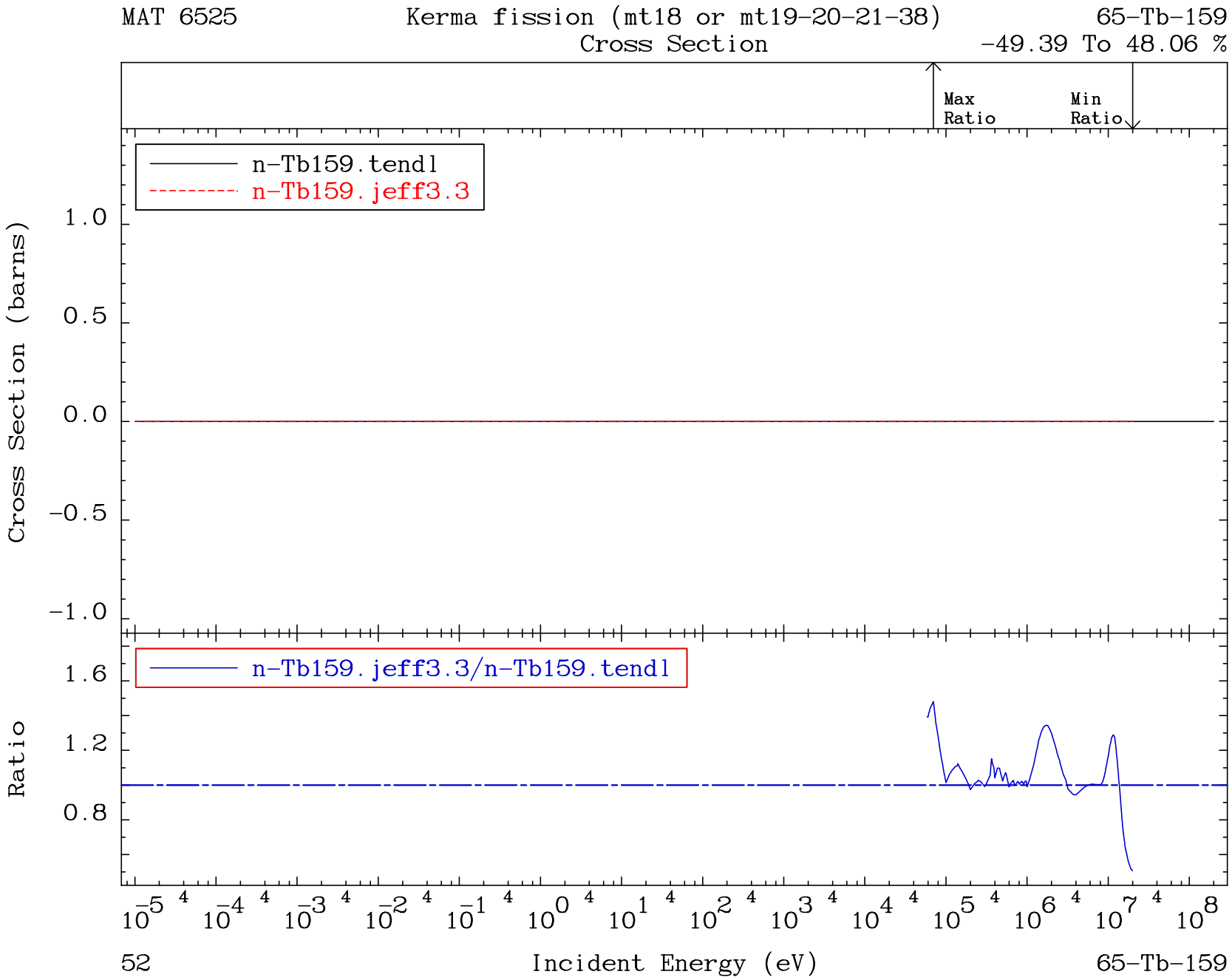

MAT 6525
He-4 Production
Cross Section
65-Tb-159
-83.54 To 2257. %
Min Ratio
Max Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
47
65-Tb-159

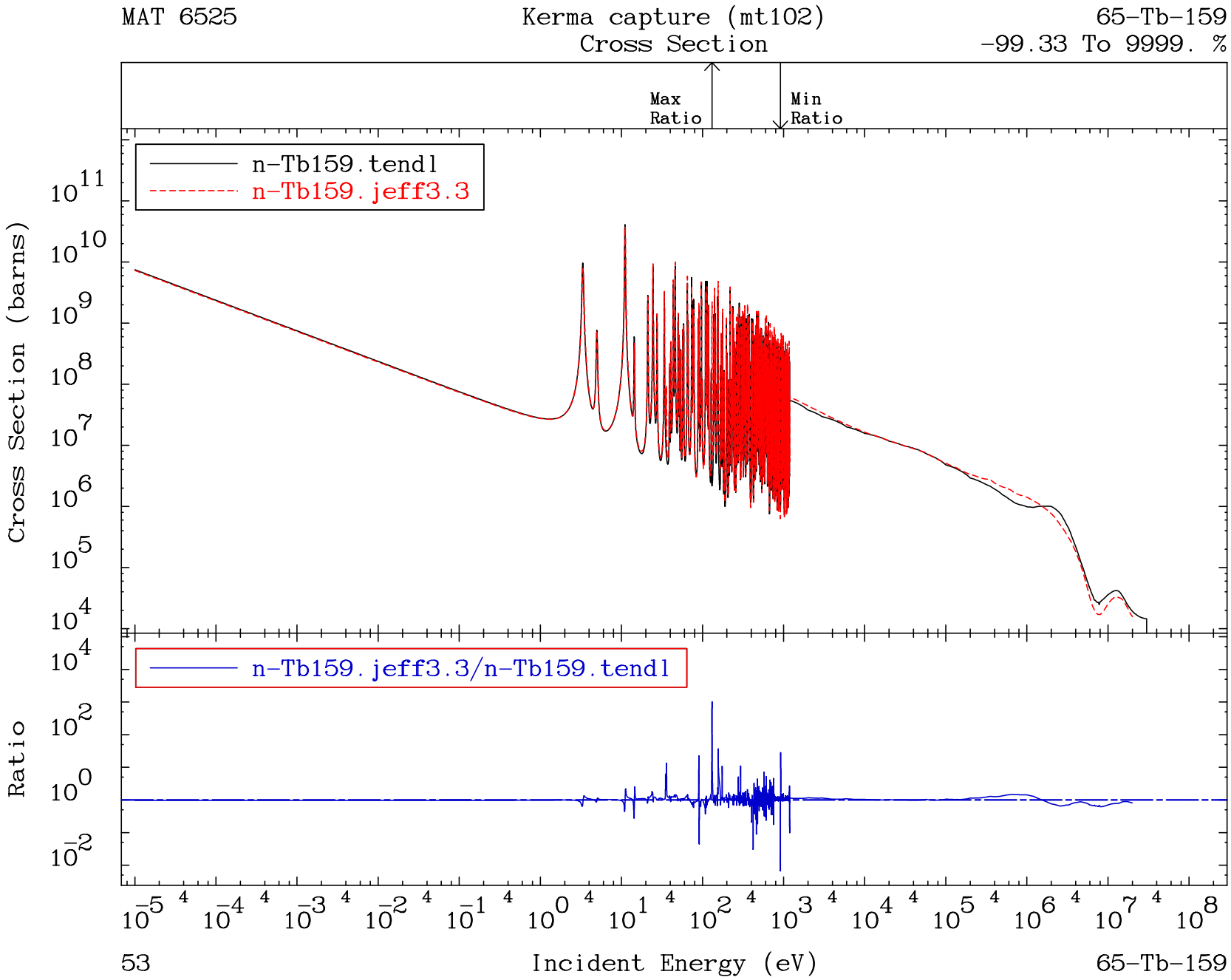

MAT 6525
Kerma total (eV-barns)
Cross Section
65-Tb-159
-99.33 To 9999. %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
48
65-Tb-159

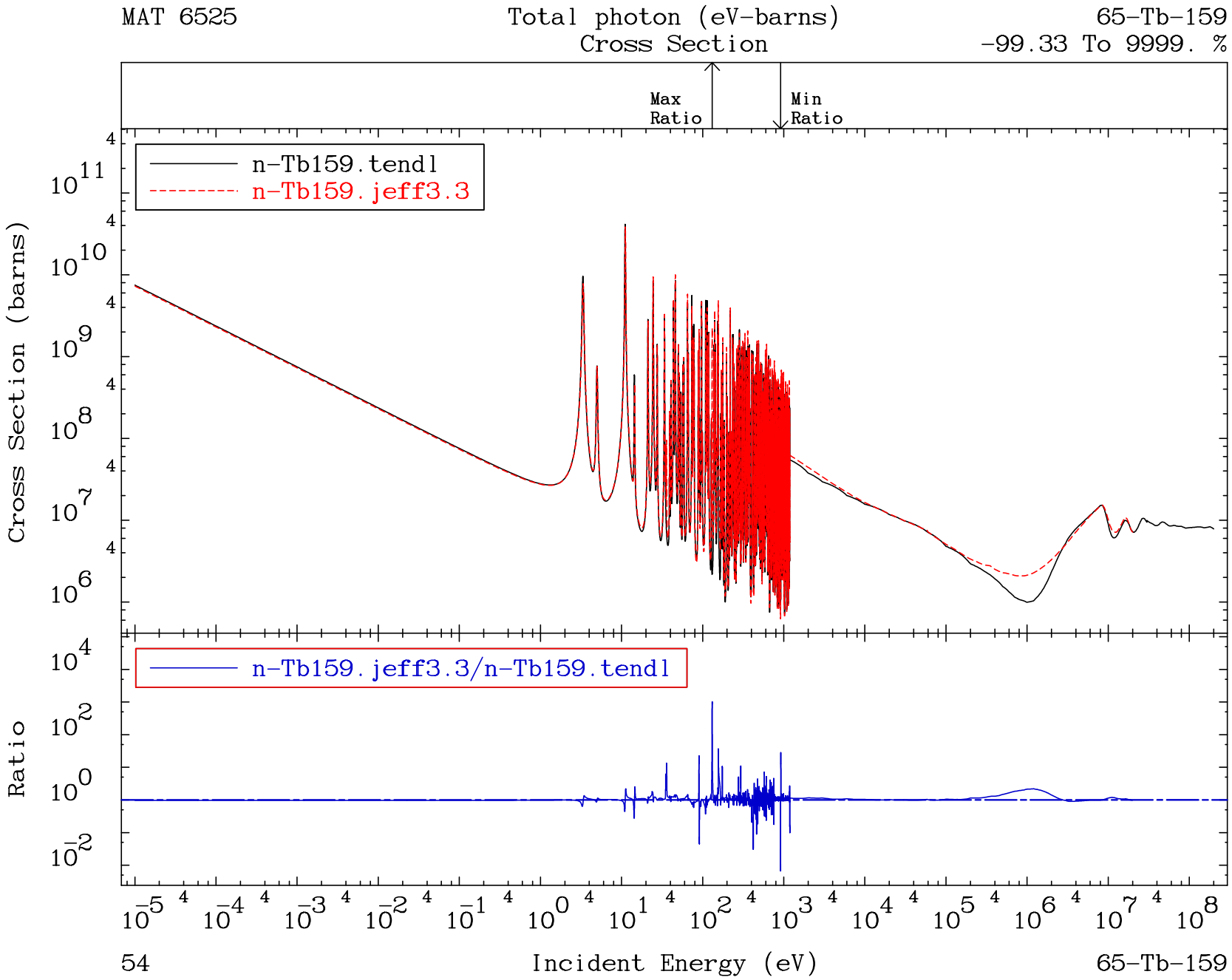

MAT 6525
Kerma elastic
Cross Section
65-Tb-159
-81.85 To 6175. %
Min Ratio
Max Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
49
65-Tb-159

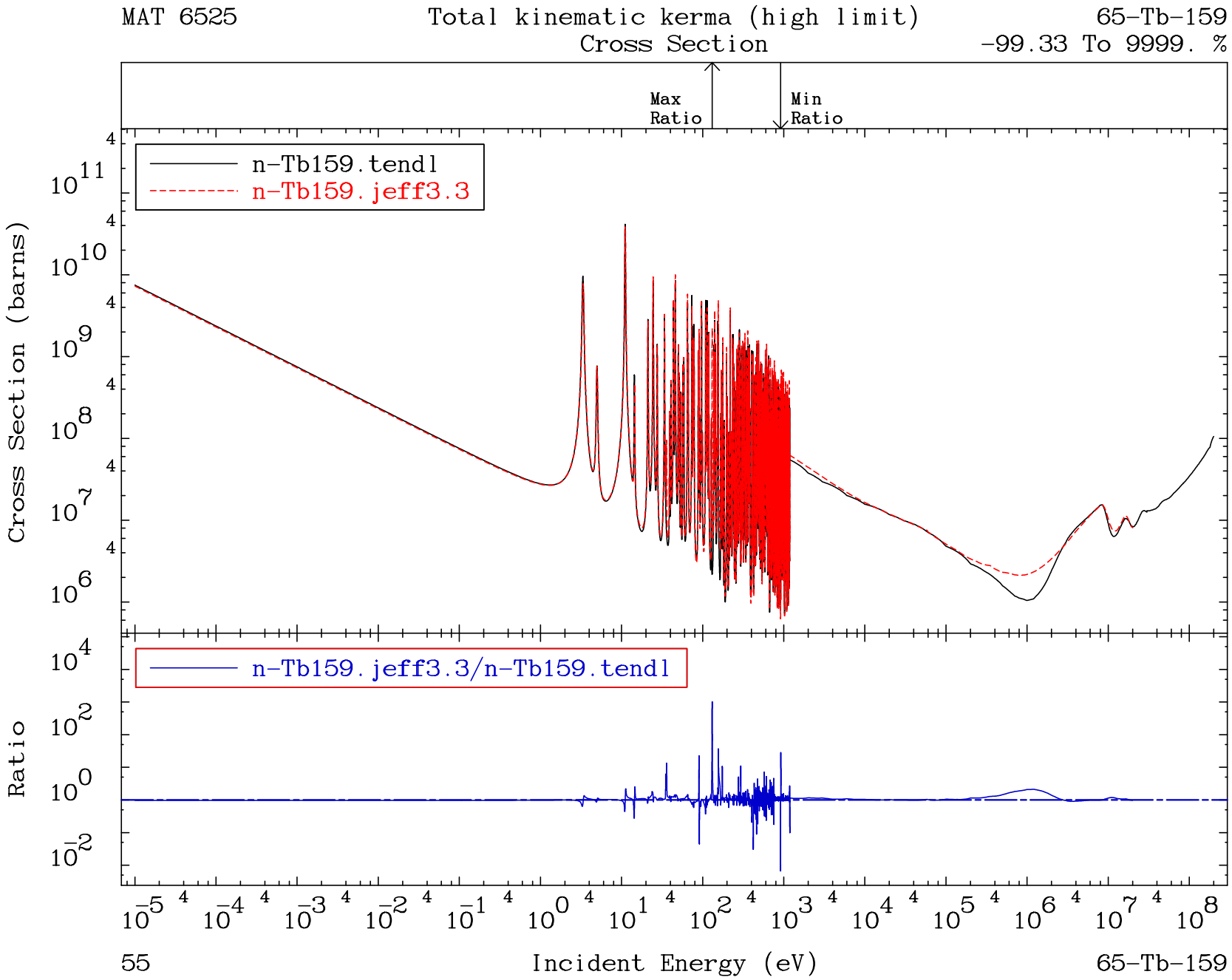

MAT 6525
Kerma non-elastic (all but mt2)
Cross Section
65-Tb-159
-99.33 To 9999. %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
50
65-Tb-159

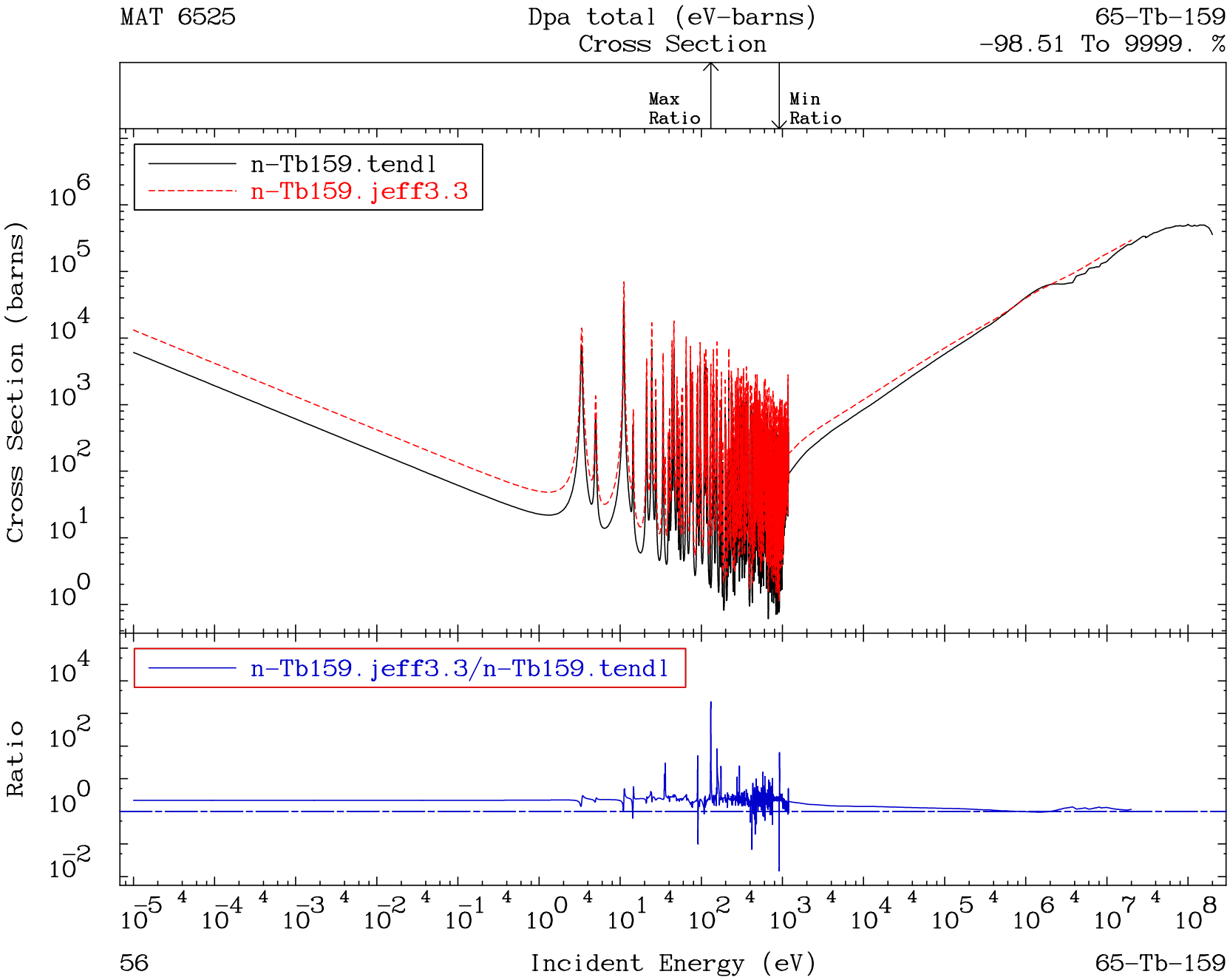

MAT 6525
Kerma inelastic (mt51-91)
Cross Section
65-Tb-159
-49.39 To 48.06 %
Max Ratio
Min Ratio
n-Tb159.tendl Threshold 58.364 keV
n-Tb159.jeff3.3 Threshold 58.364 keV
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
51
65-Tb-159

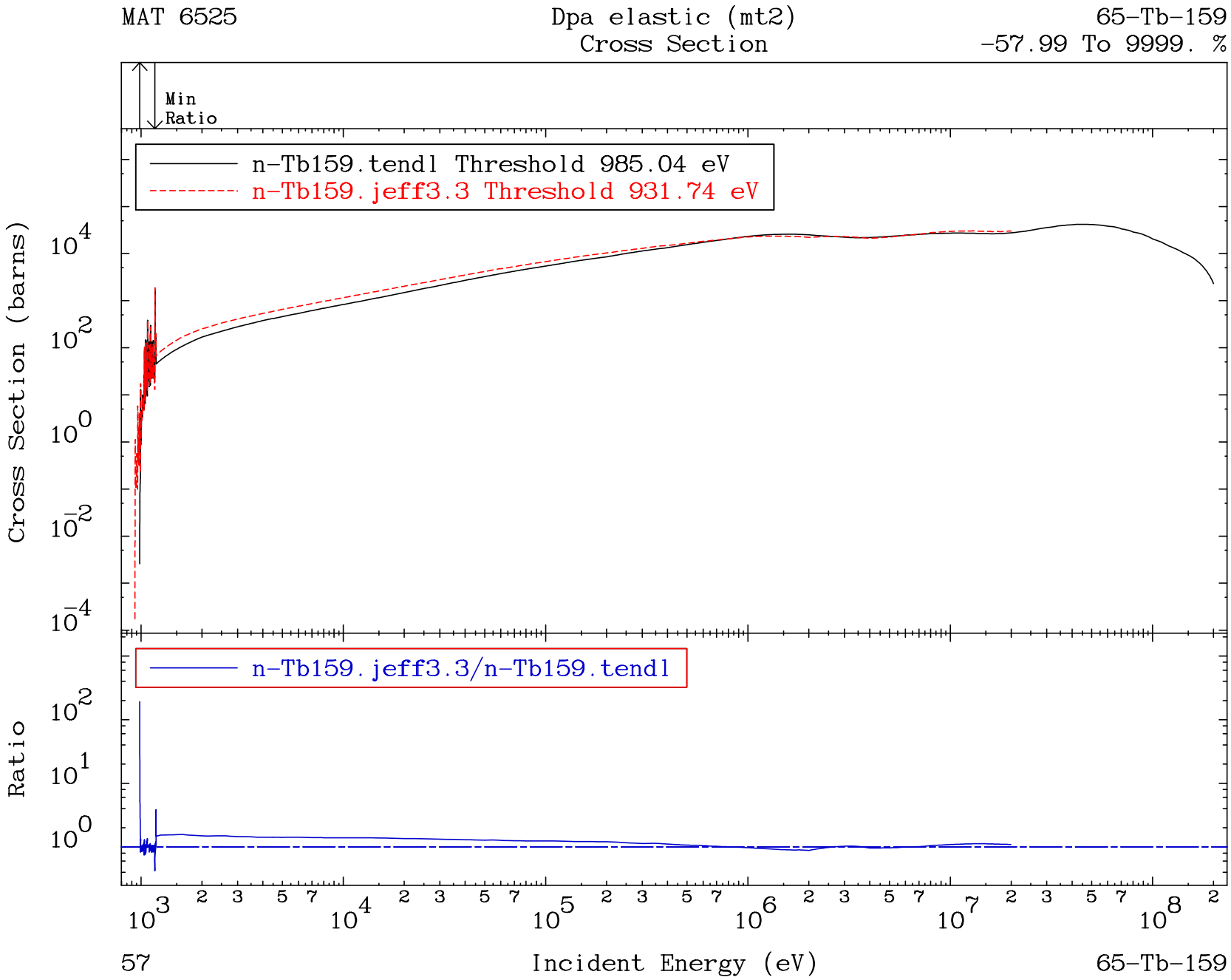

MAT 6525
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
65-Tb-159
-49.39 To 48.06 %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
1.6
1.2
0.8
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
52
Incident Energy (eV)
65-Tb-159

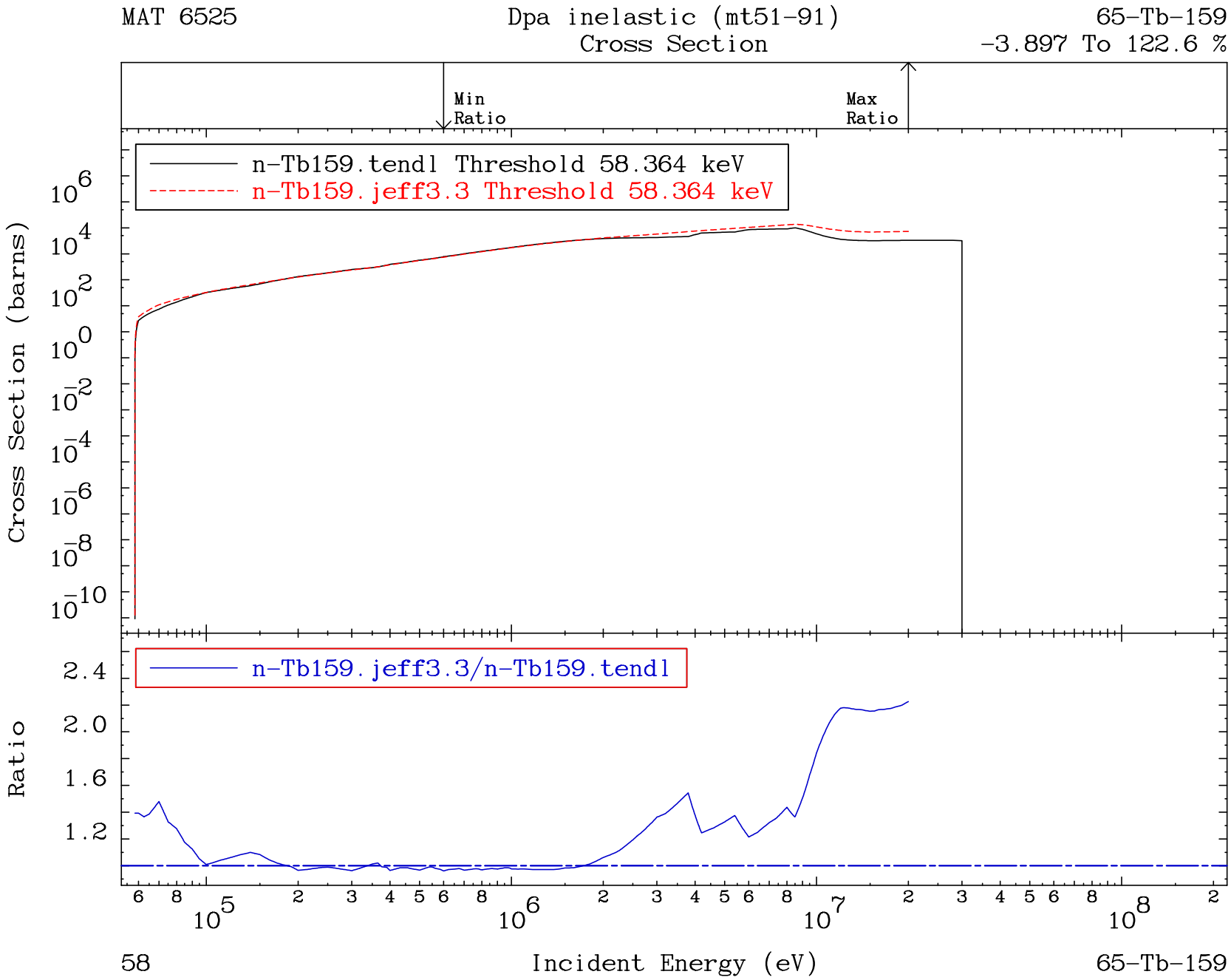

MAT 6525
Kerma capture (mt102)
Cross Section
65-Tb-159
-99.33 To 9999. %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
53
Incident Energy (eV)
65-Tb-159

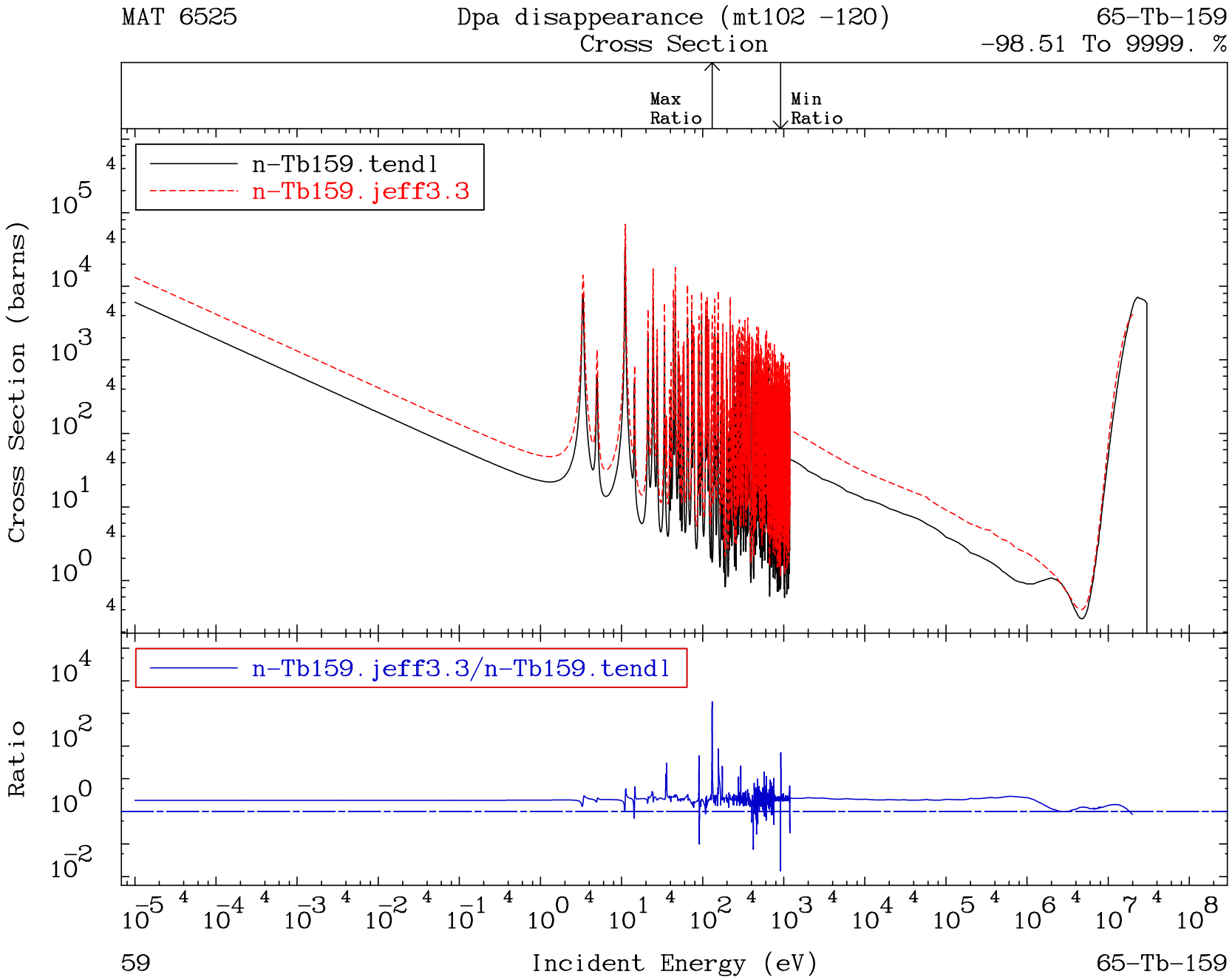

MAT 6525
Total photon (eV-barns)
Cross Section
65-Tb-159
-99.33 To 9999. %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
54
Incident Energy (eV)
65-Tb-159


MAT 6525
Total kinematic kerma (high limit)
Cross Section
65-Tb-159
-99.33 To 9999. %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
55
65-Tb-159


MAT 6525
Dpa total (eV-barns)
Cross Section
65-Tb-159
-98.51 To 9999. %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
56
65-Tb-159


MAT 6525
Dpa elastic (mt2)
Cross Section
65-Tb-159
-57.99 To 9999. %
Min
Ratio
n-Tb159.tendl Threshold 985.04 eV
n-Tb159.jeff3.3 Threshold 931.74 eV
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
57
65-Tb-159


MAT 6525
Dpa inelastic (mt51-91)
Cross Section
65-Tb-159
-3.897 To 122.6 %
Min Ratio
Max Ratio
n-Tb159.tendl Threshold 58.364 keV
n-Tb159.jeff3.3 Threshold 58.364 keV
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
58
65-Tb-159


MAT 6525
Dpa disappearance (mt102 -120)
Cross Section
65-Tb-159
-98.51 To 9999. %
Max Ratio
Min Ratio
n-Tb159.tendl
n-Tb159.jeff3.3
Cross Section (barns)
n-Tb159.jeff3.3/n-Tb159.tendl
Ratio
Incident Energy (eV)
59
65-Tb-159