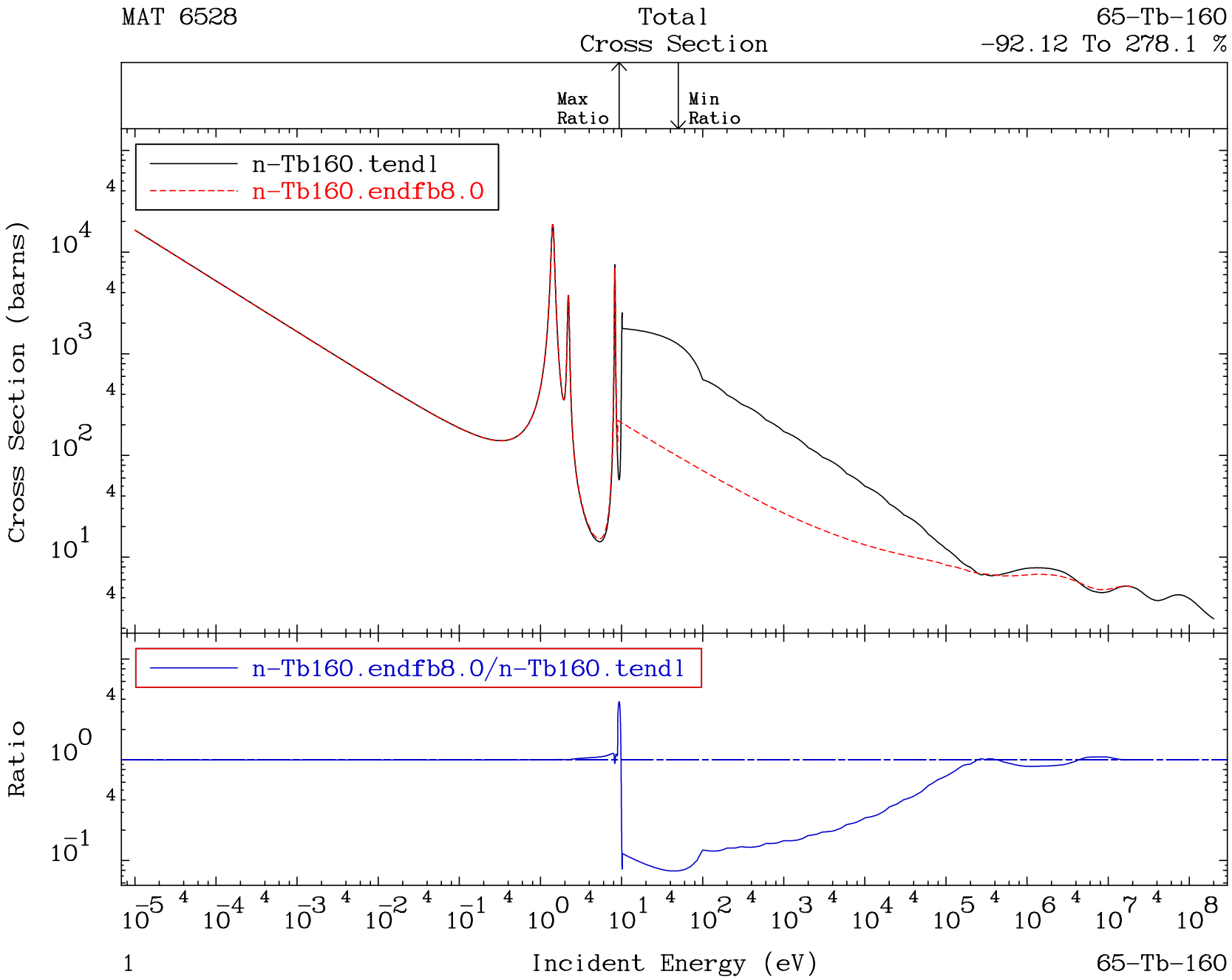
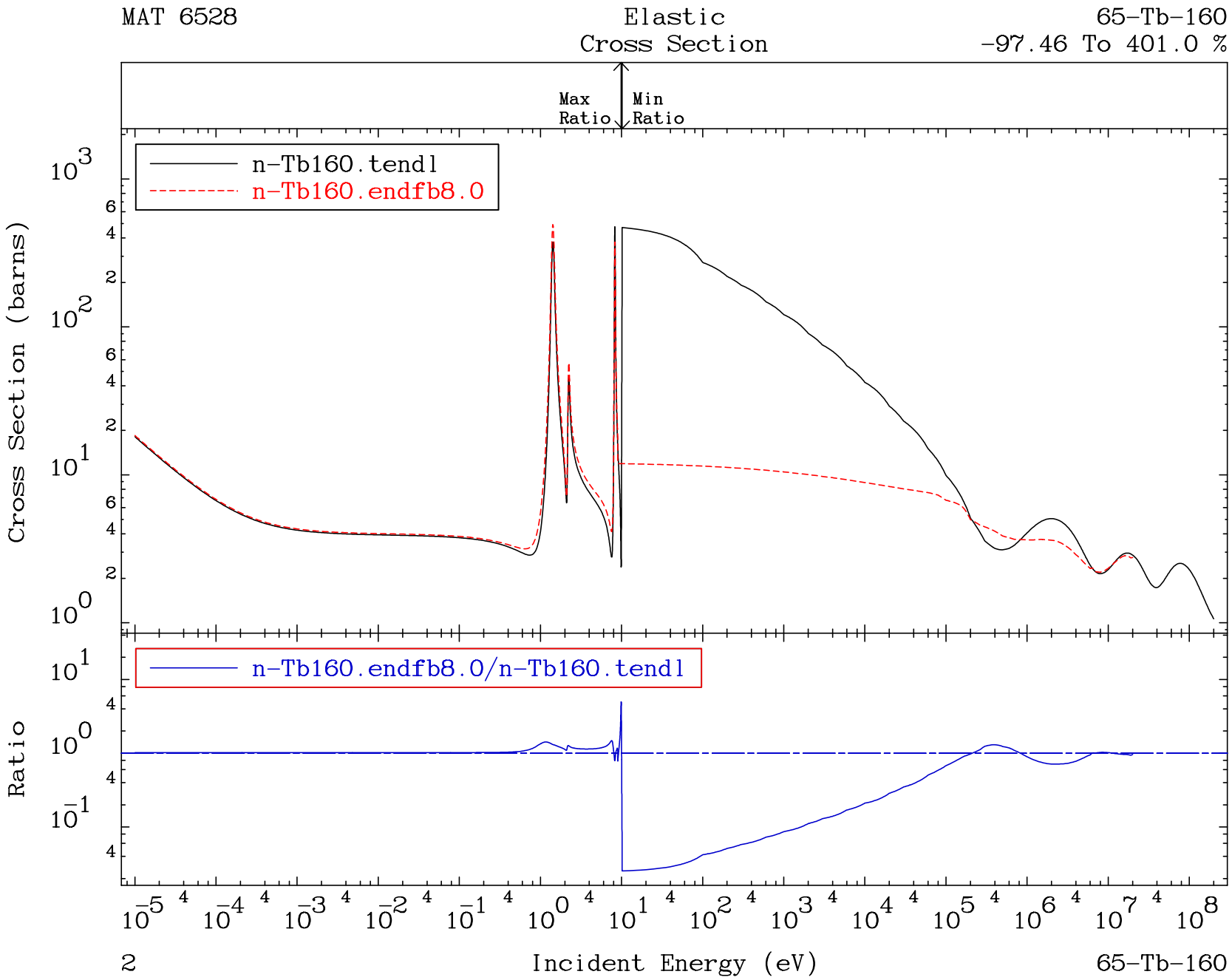
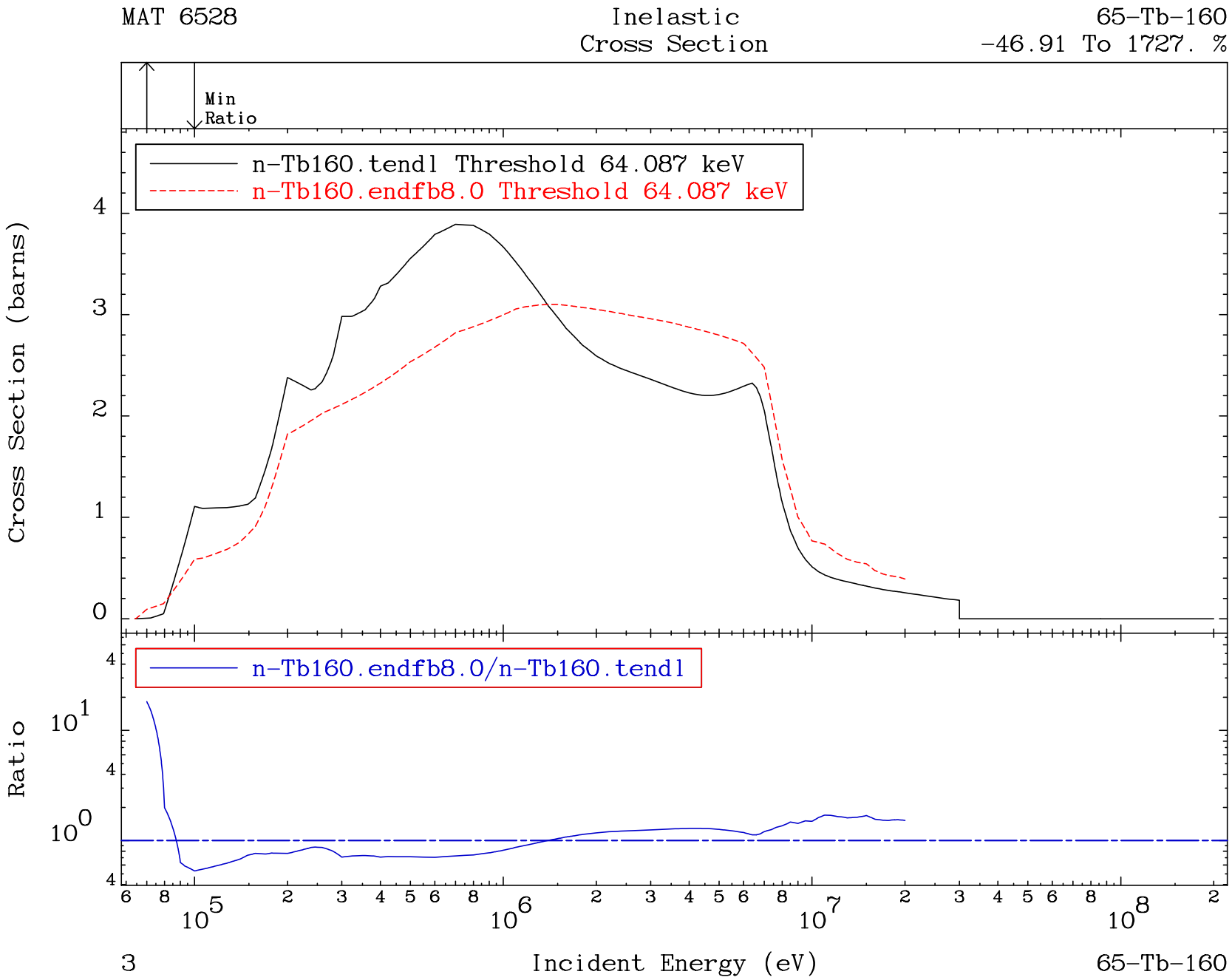
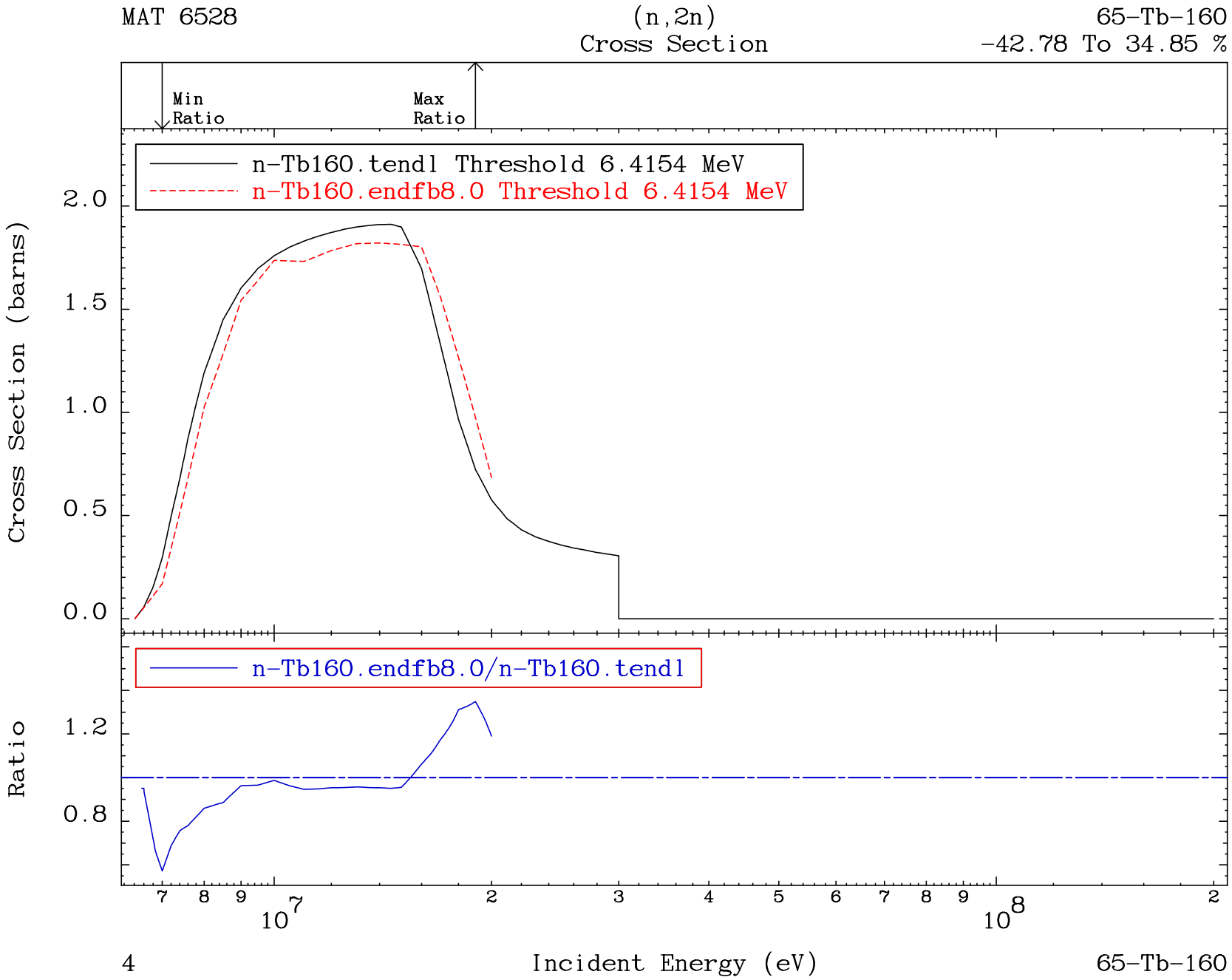
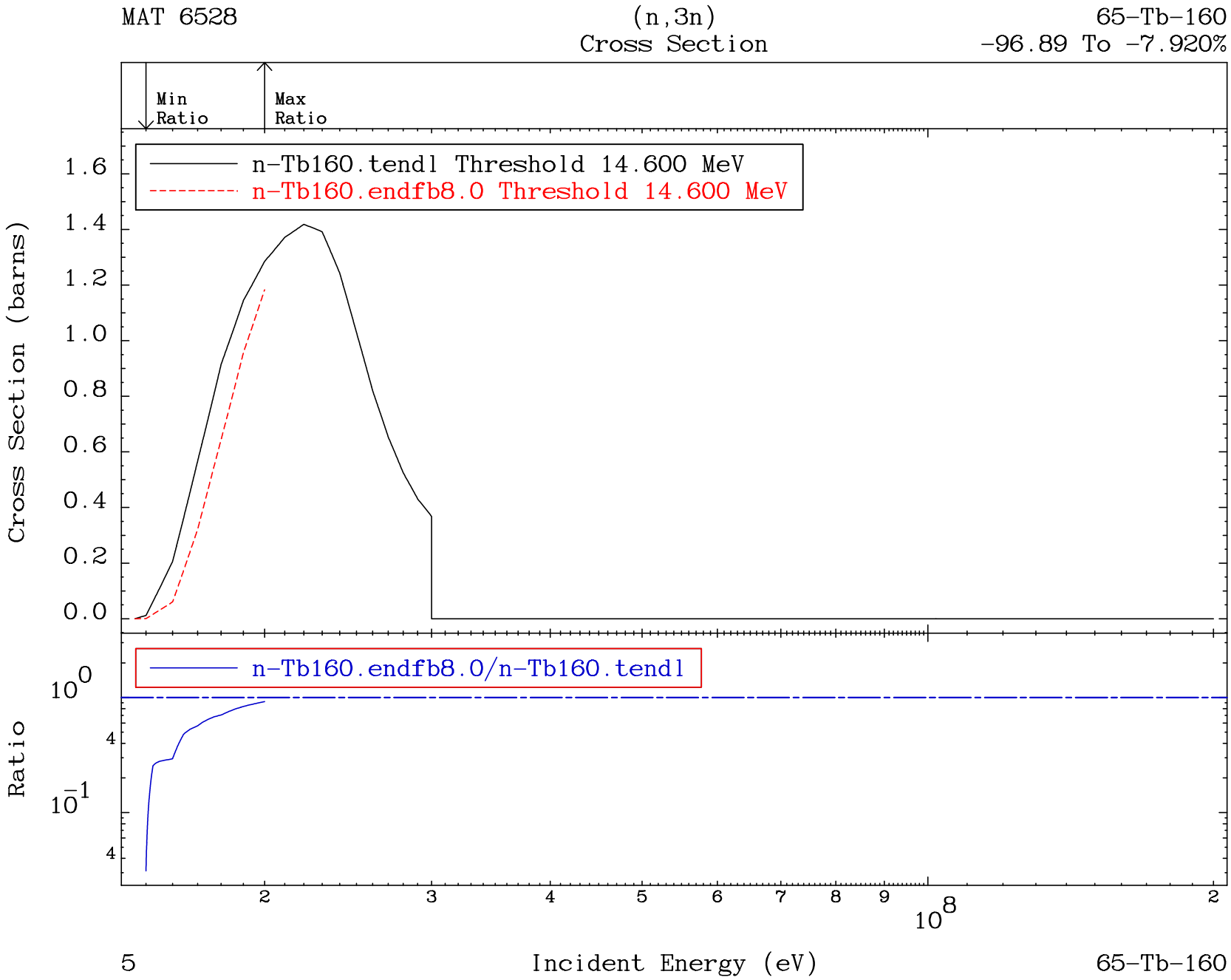
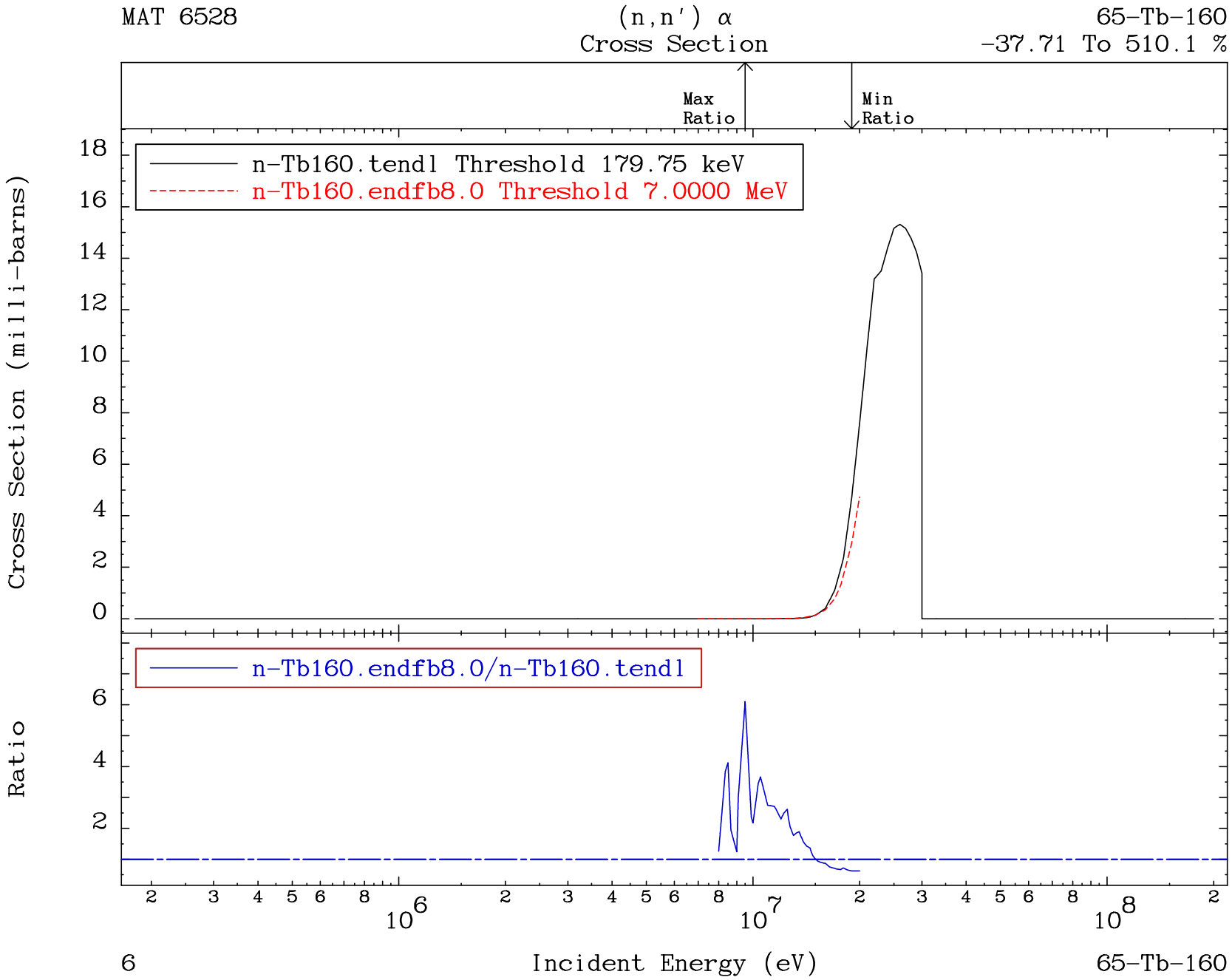

MAT 6528
Total
Cross Section
65-Tb-160
-92.12 To 278.1 %
Max
Ratio
Min
Ratio
n-Tb160.tendl
n-Tb160.endfb8.0
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
1
65-Tb-160

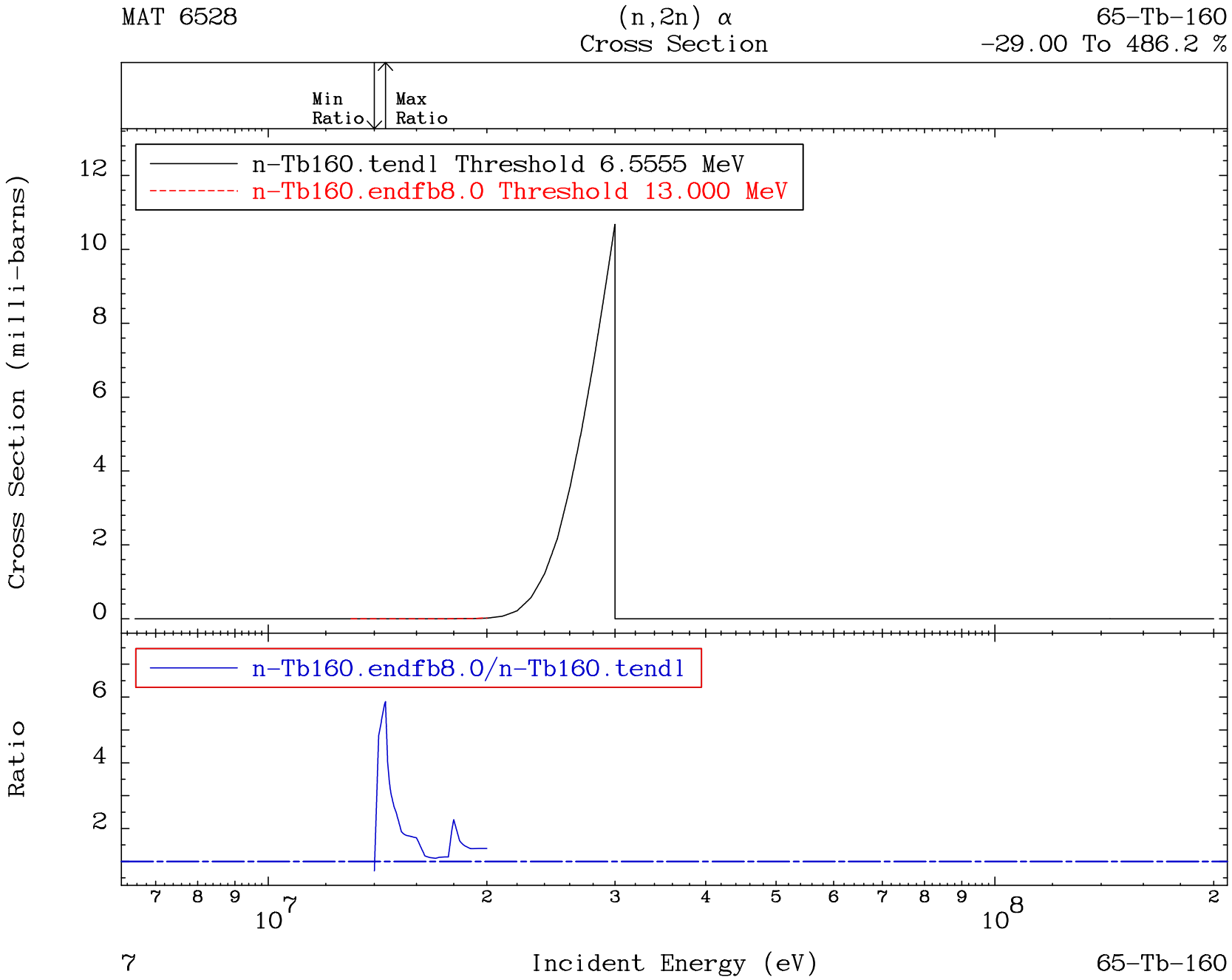

MAT 6528
Elastic
Cross Section
65-Tb-160
-97.46 To 401.0 %
Max Ratio
Min Ratio
n-Tb160.tendl
n-Tb160.endfb8.0
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
2
65-Tb-160

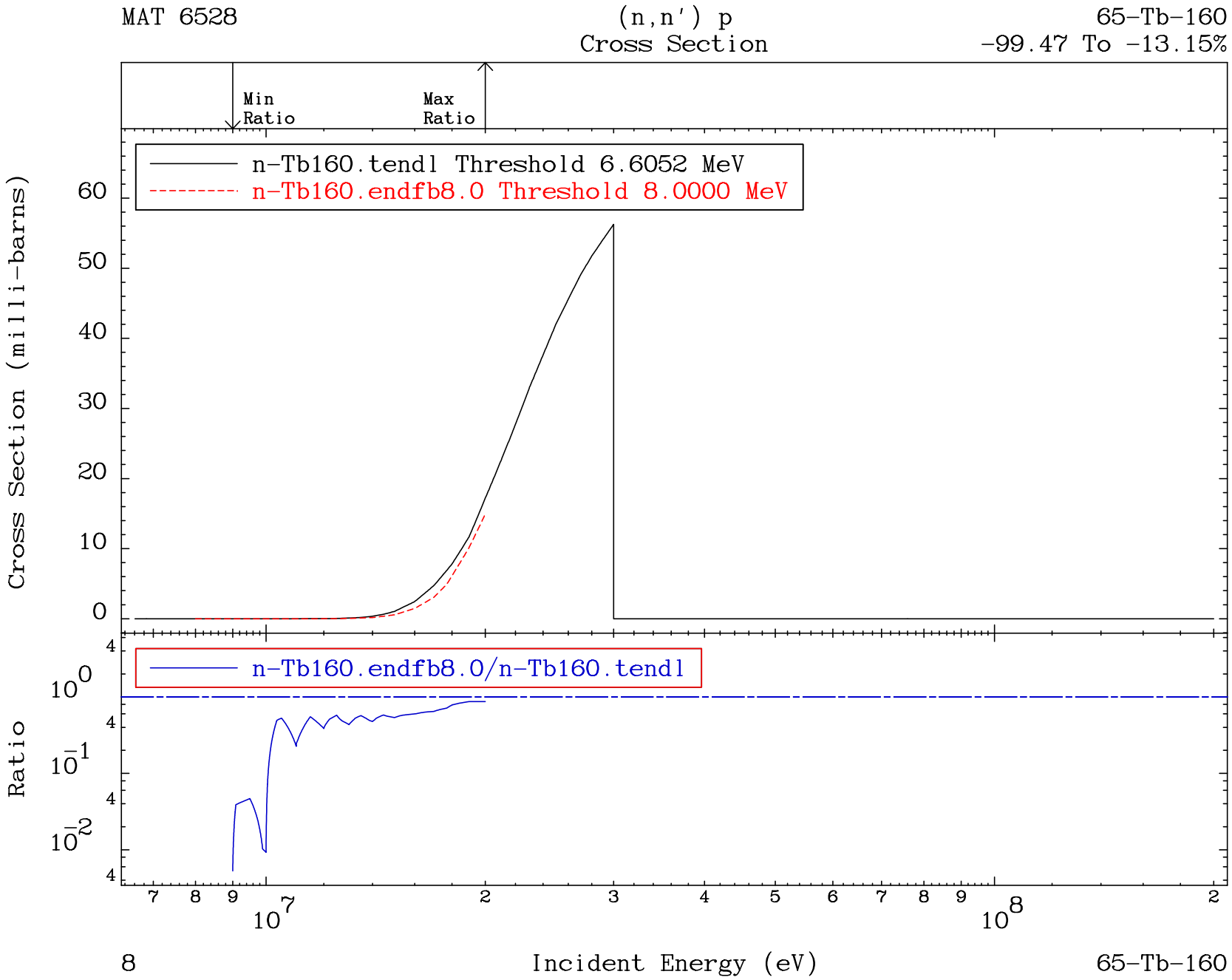

MAT 6528
Inelastic
Cross Section
65-Tb-160
-46.91 To 1727. %
Min
Ratio
n-Tb160.tendl Threshold 64.087 keV
n-Tb160.endfb8.0 Threshold 64.087 keV
Cross Section (barns)
0
1
2
3
4
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^1
10^0
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
65-Tb-160

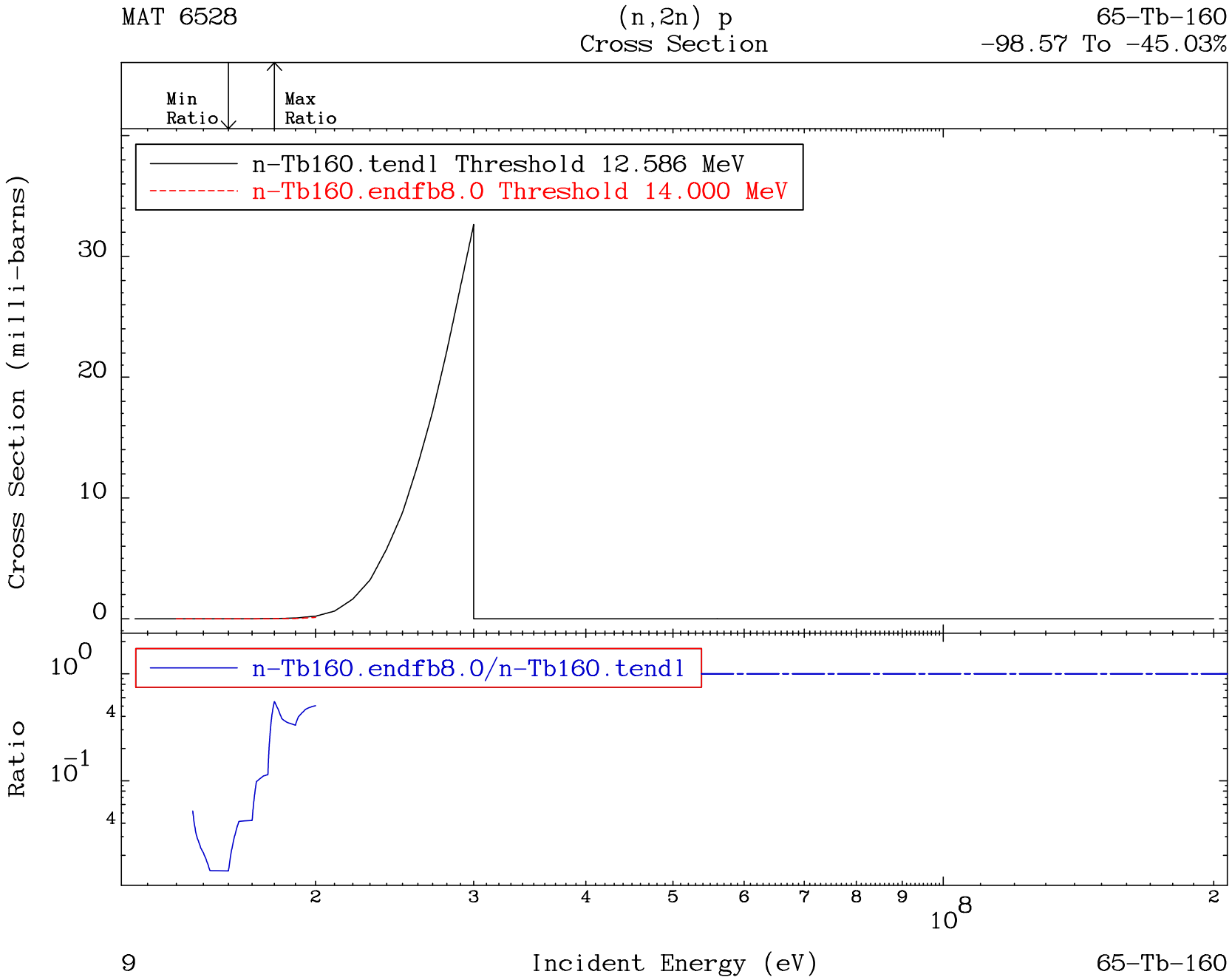

MAT 6528
(n,2n)
Cross Section
65-Tb-160
-42.78 To 34.85 %
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 6.4154 MeV
n-Tb160.endfb8.0 Threshold 6.4154 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
1.2
0.8
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
65-Tb-160

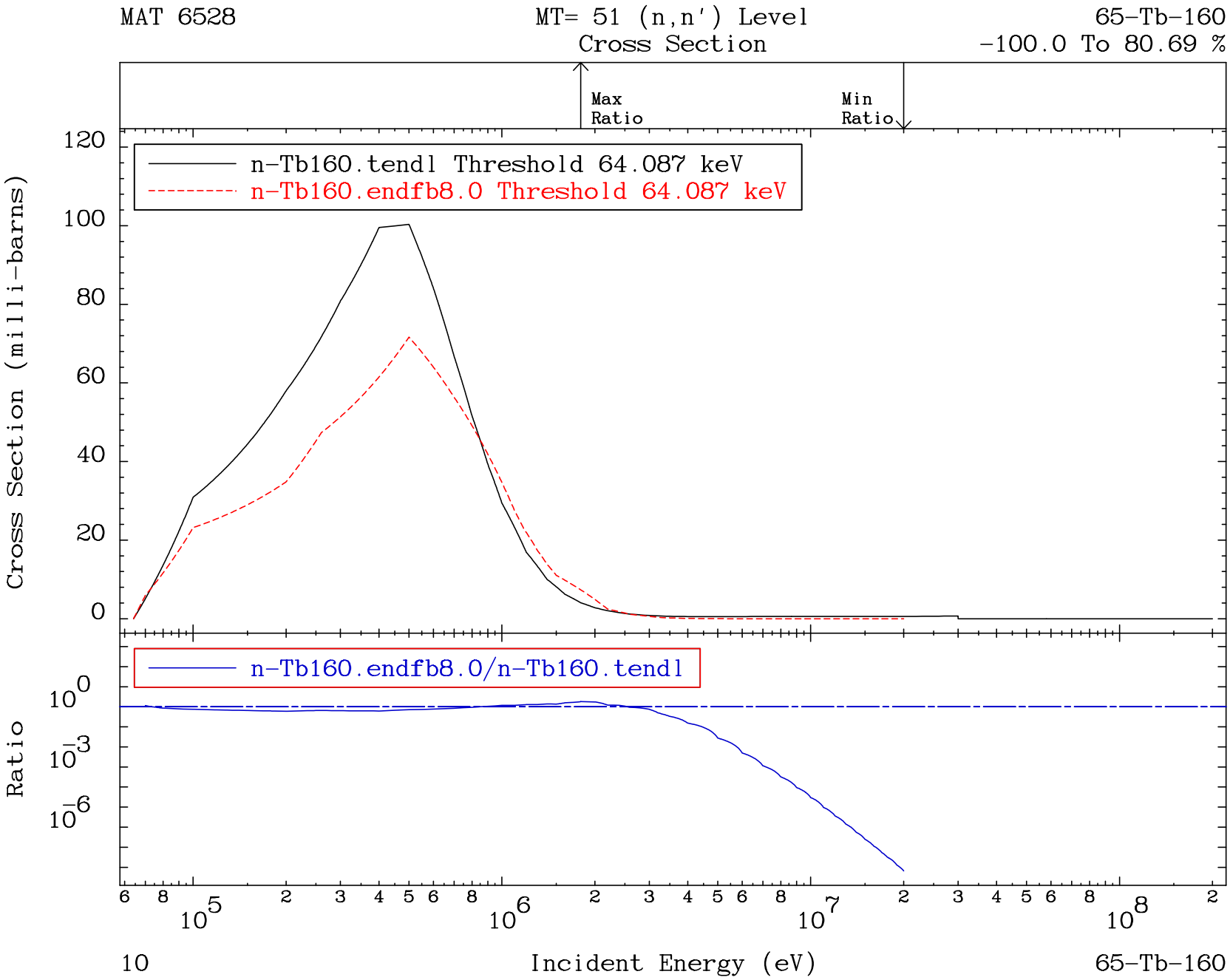

MAT 6528
(n,3n)
Cross Section
65-Tb-160
-96.89 To -7.920%
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 14.600 MeV
n-Tb160.endfb8.0 Threshold 14.600 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^0
10^-1
4
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
65-Tb-160

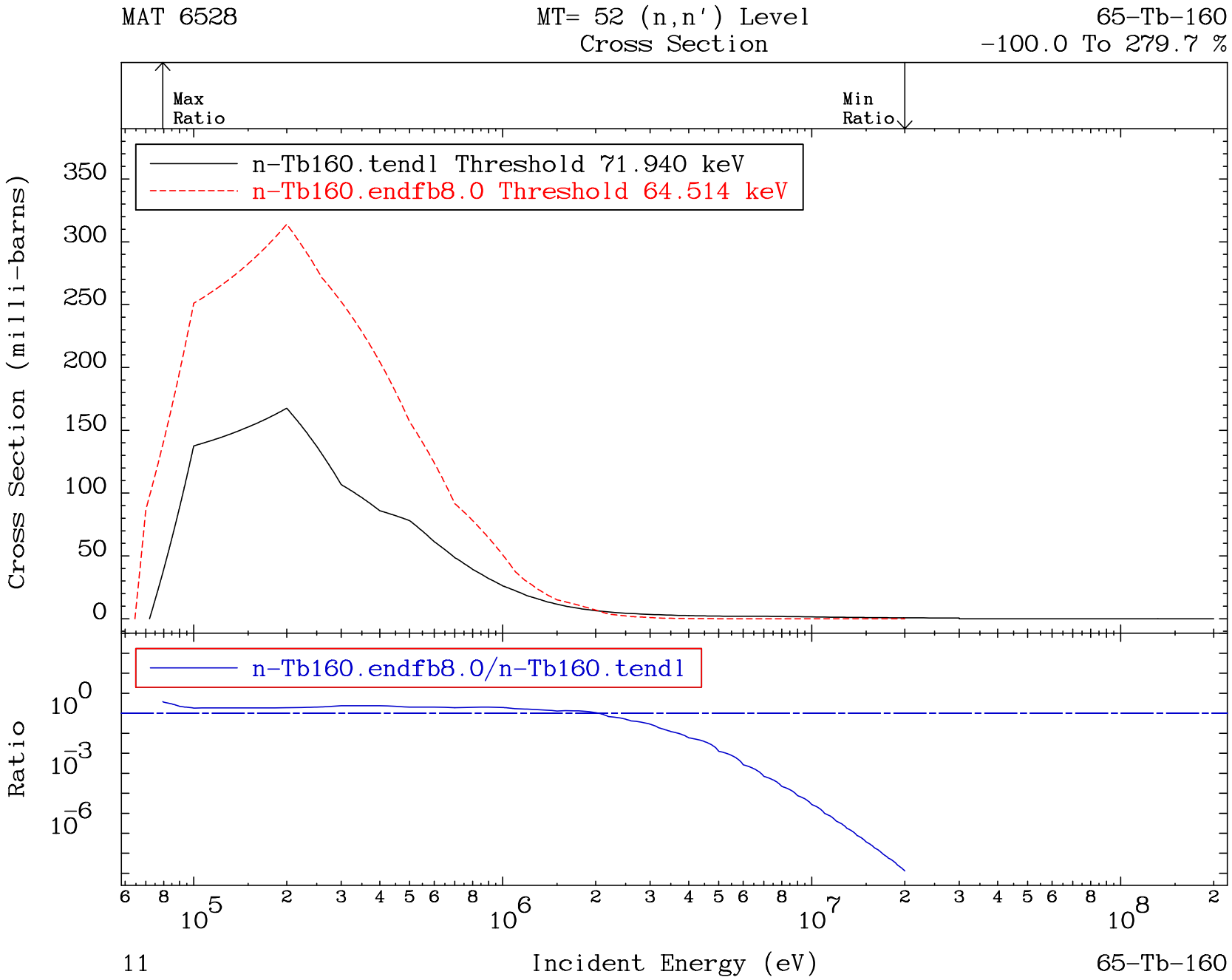

MAT 6528
(n,n') α
Cross Section
65-Tb-160
-37.71 To 510.1 %
Max Ratio
Min Ratio
n-Tb160.tendl Threshold 179.75 keV
n-Tb160.endfb8.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
6
65-Tb-160

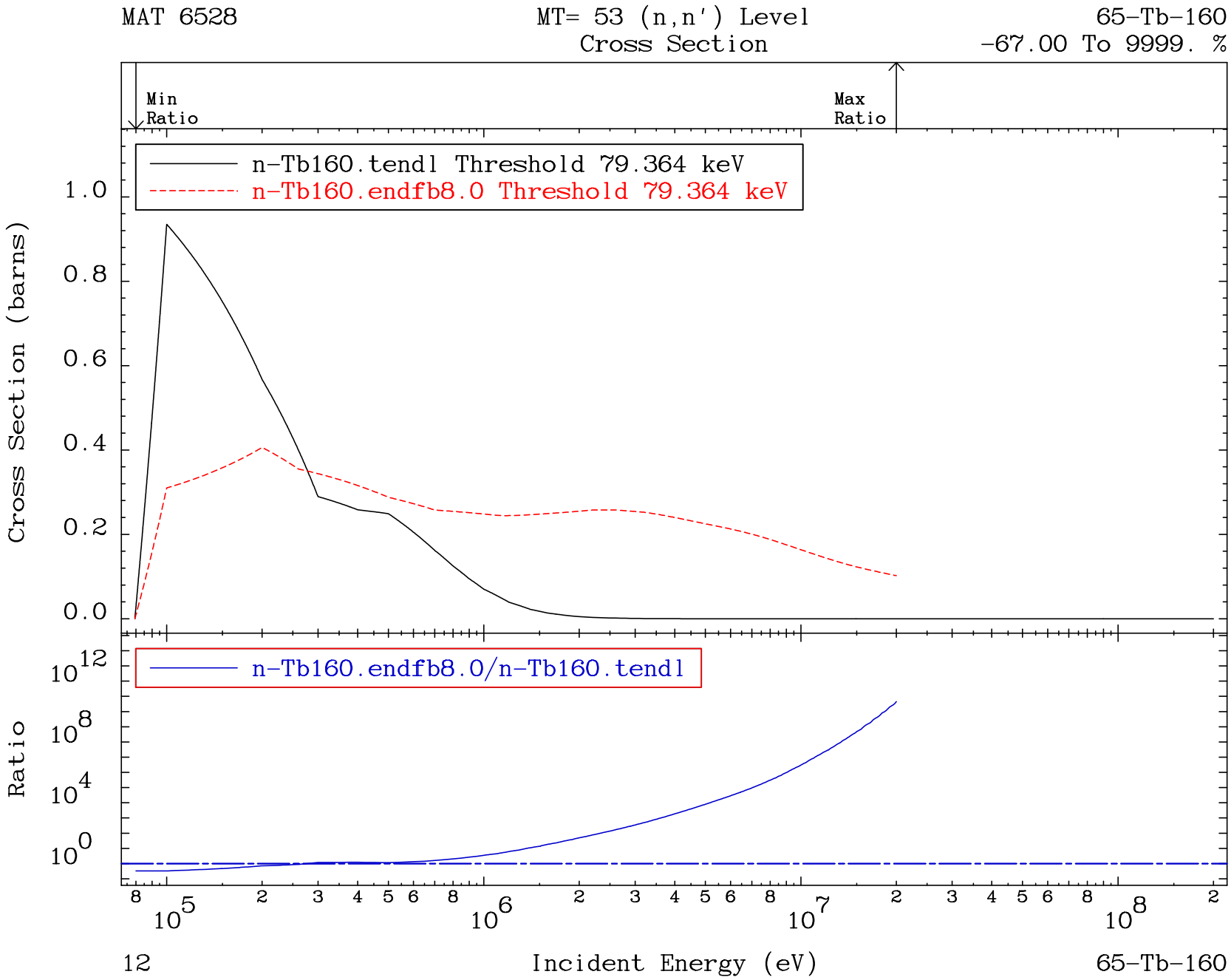

MAT 6528
(n,2n) α
Cross Section
65-Tb-160
-29.00 To 486.2 %
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 6.5555 MeV
n-Tb160.endfb8.0 Threshold 13.000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
2
4
6
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
7
65-Tb-160

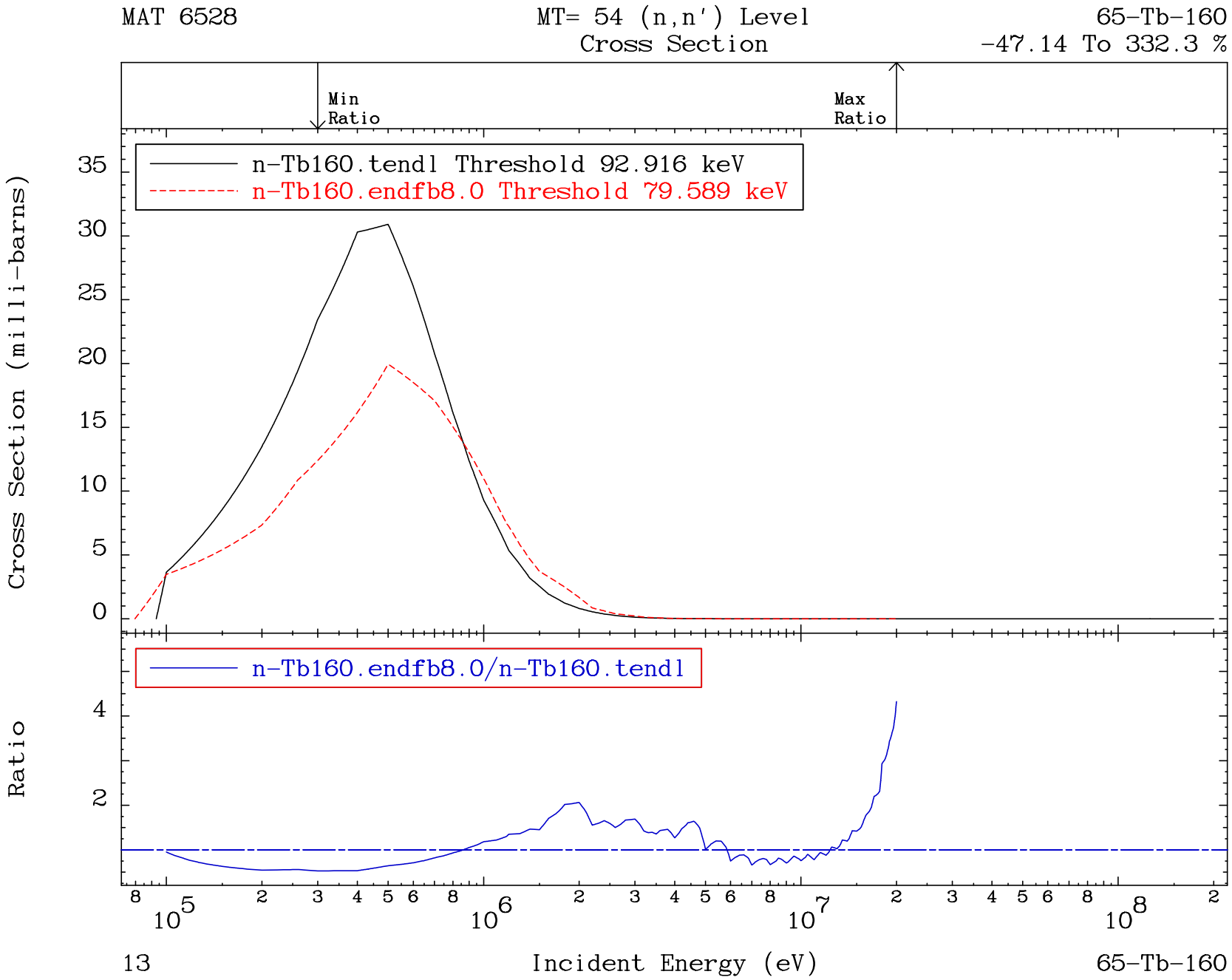

MAT 6528
(n,n') p
Cross Section
65-Tb-160
-99.47 To -13.15%
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 6.6052 MeV
n-Tb160.endfb8.0 Threshold 8.0000 MeV
Cross Section (milli-barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
8
65-Tb-160

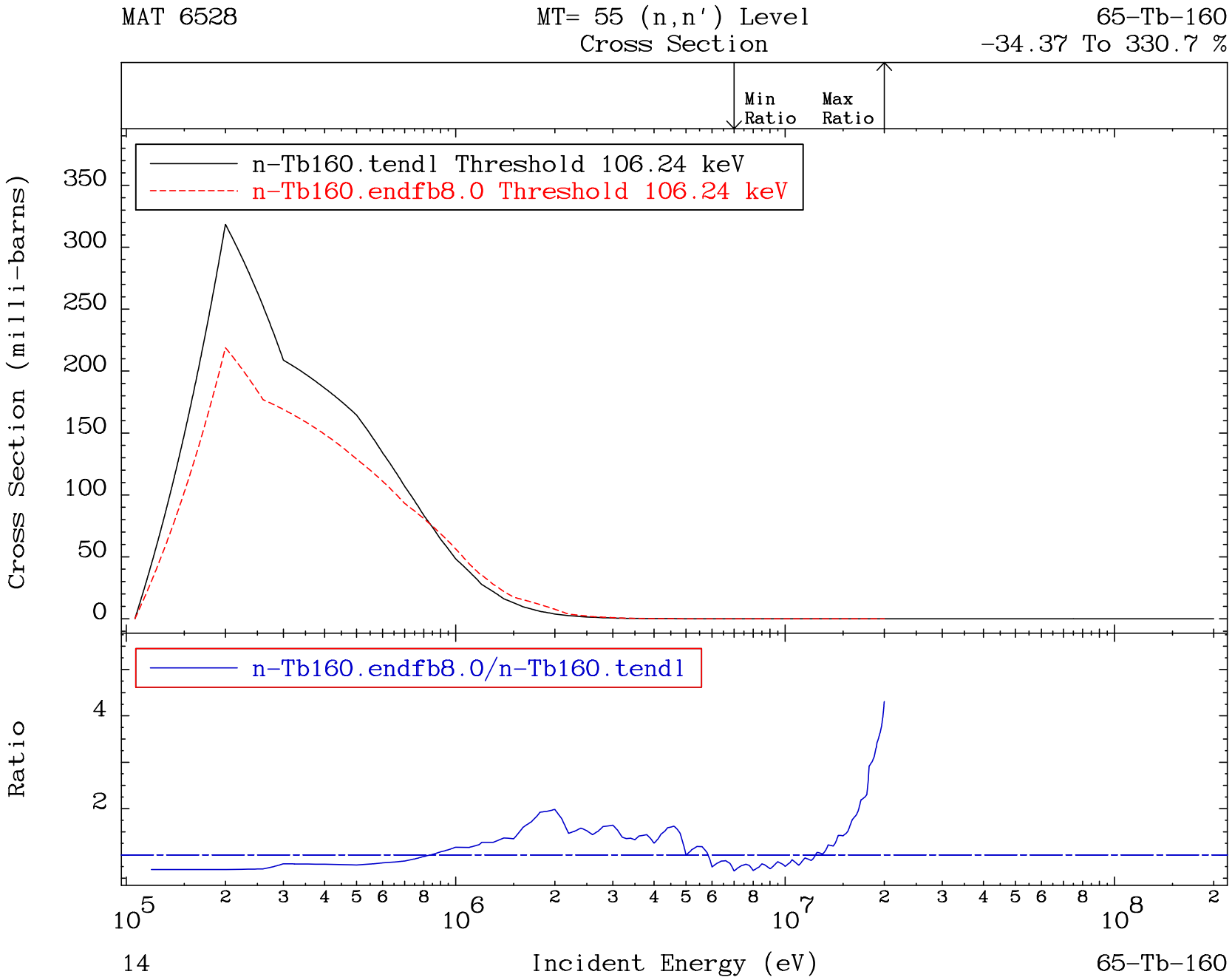

MAT 6528
(n,2n) p
Cross Section
65-Tb-160
-98.57 To -45.03%
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 12.586 MeV
n-Tb160.endfb8.0 Threshold 14.000 MeV
Cross Section (milli-barns)
30
20
10
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^0
10^-1
4
4
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
65-Tb-160

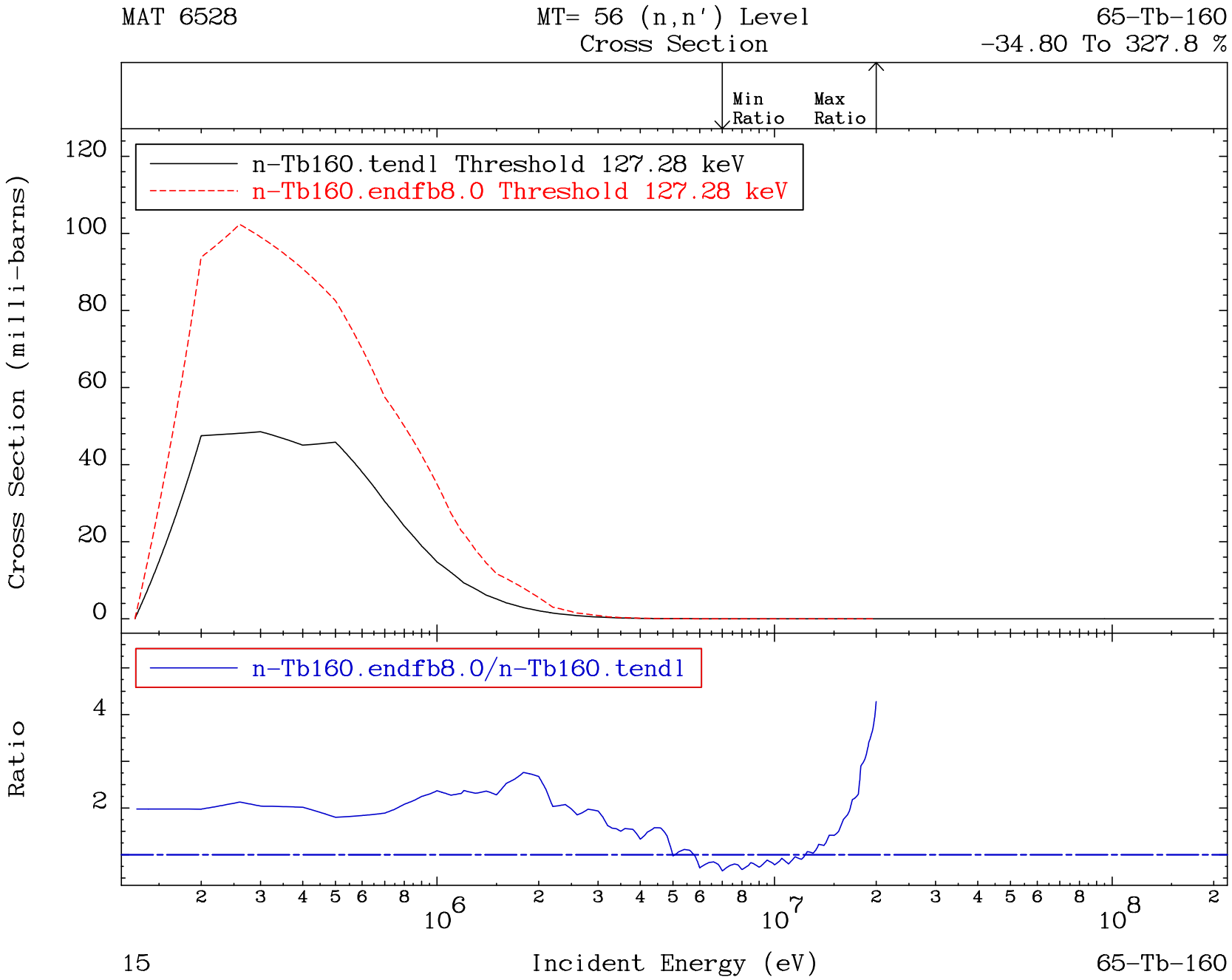

MAT 6528
MT= 51 (n,n') Level
Cross Section
65-Tb-160
-100.0 To 80.69 %
Max
Ratio
Min
Ratio
n-Tb160.tendl Threshold 64.087 keV
n-Tb160.endfb8.0 Threshold 64.087 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^0
10^-3
10^-6
10^5
10^6
10^7
10^8
Incident Energy (eV)
10
65-Tb-160

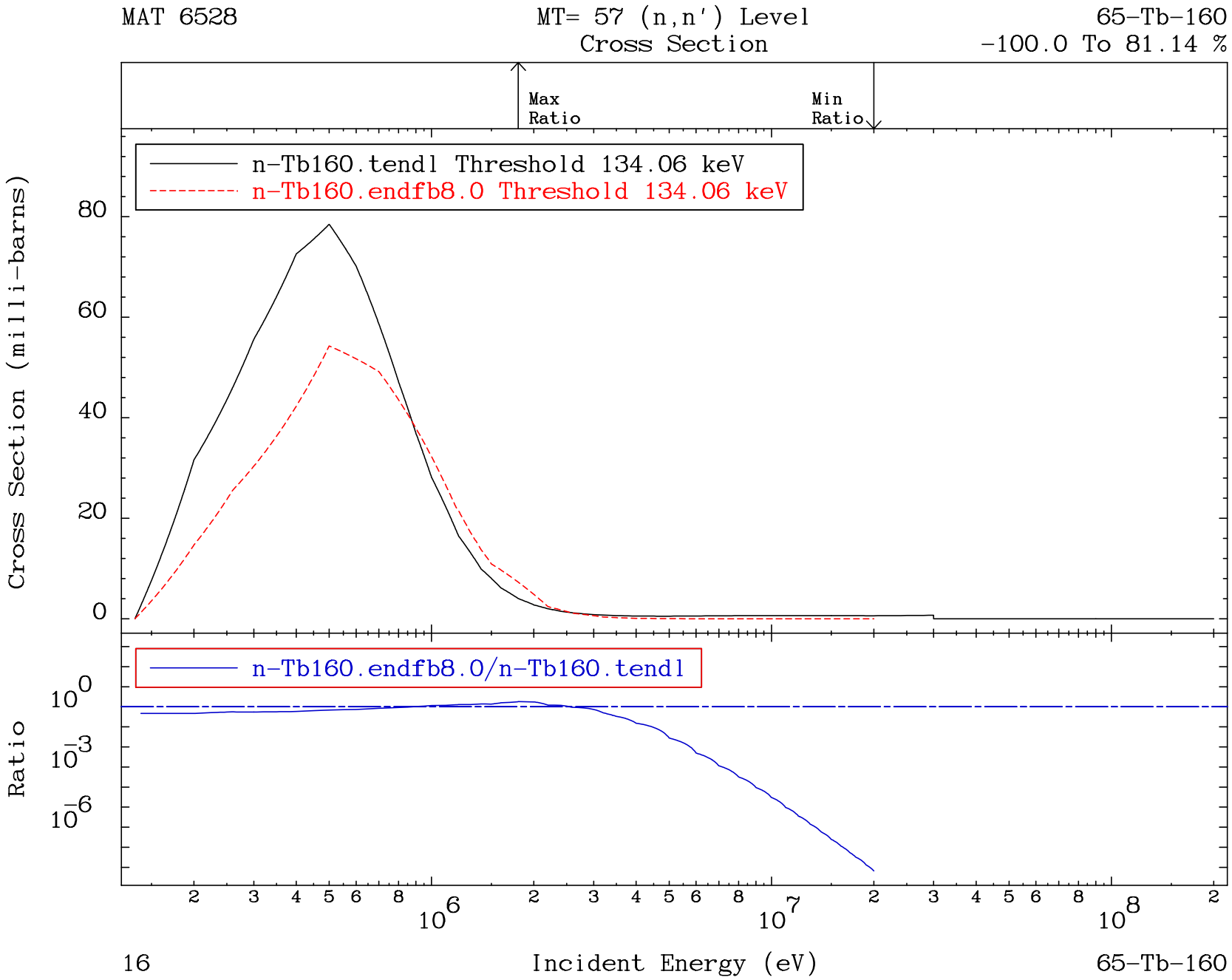

MAT 6528
MT= 52 (n,n') Level
Cross Section
65-Tb-160
-100.0 To 279.7 %
Max
Ratio
Min
Ratio
n-Tb160.tendl Threshold 71.940 keV
n-Tb160.endfb8.0 Threshold 64.514 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^0
10^-3
10^-6
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
65-Tb-160

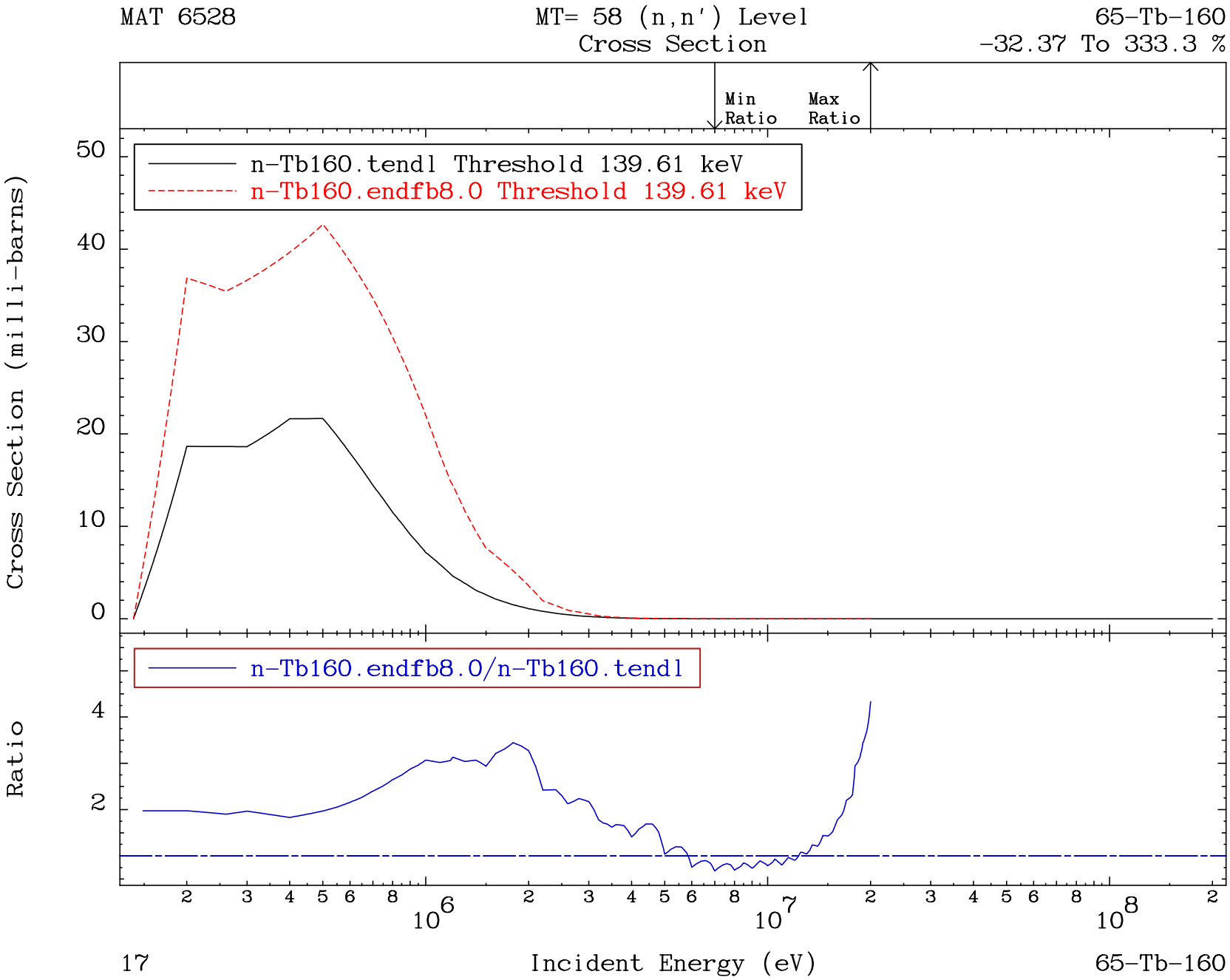

MAT 6528
MT= 53 (n,n') Level
Cross Section
65-Tb-160
-67.00 To 9999. %
Min
Ratio
Max
Ratio
n-Tb160.tendl Threshold 79.364 keV
n-Tb160.endfb8.0 Threshold 79.364 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^12
10^8
10^4
10^0
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
12
Incident Energy (eV)
65-Tb-160

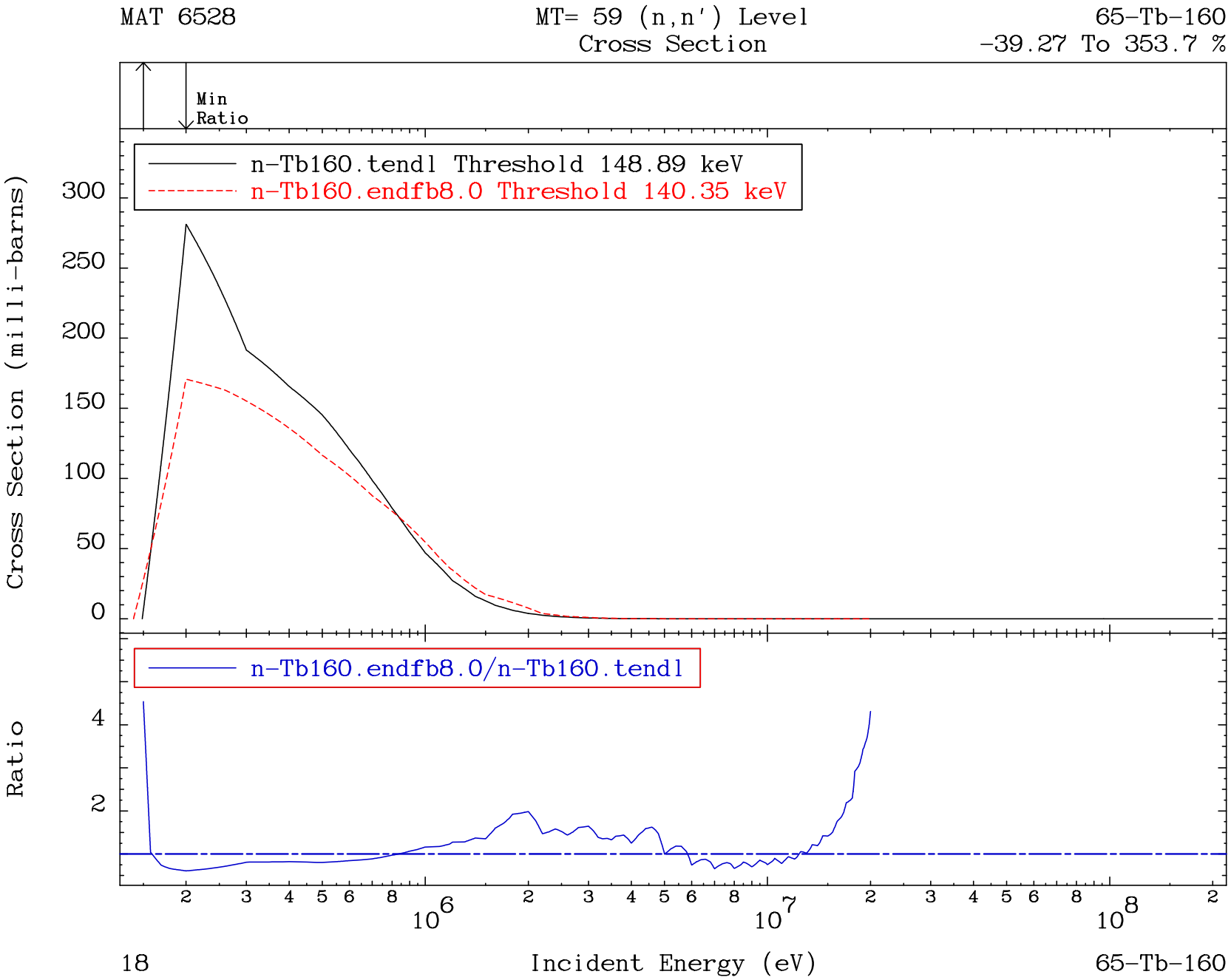

MAT 6528
MT= 54 (n,n') Level
Cross Section
65-Tb-160
-47.14 To 332.3 %
Min
Ratio
Max
Ratio
n-Tb160.tendl Threshold 92.916 keV
n-Tb160.endfb8.0 Threshold 79.589 keV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
4
2
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
13
Incident Energy (eV)
65-Tb-160

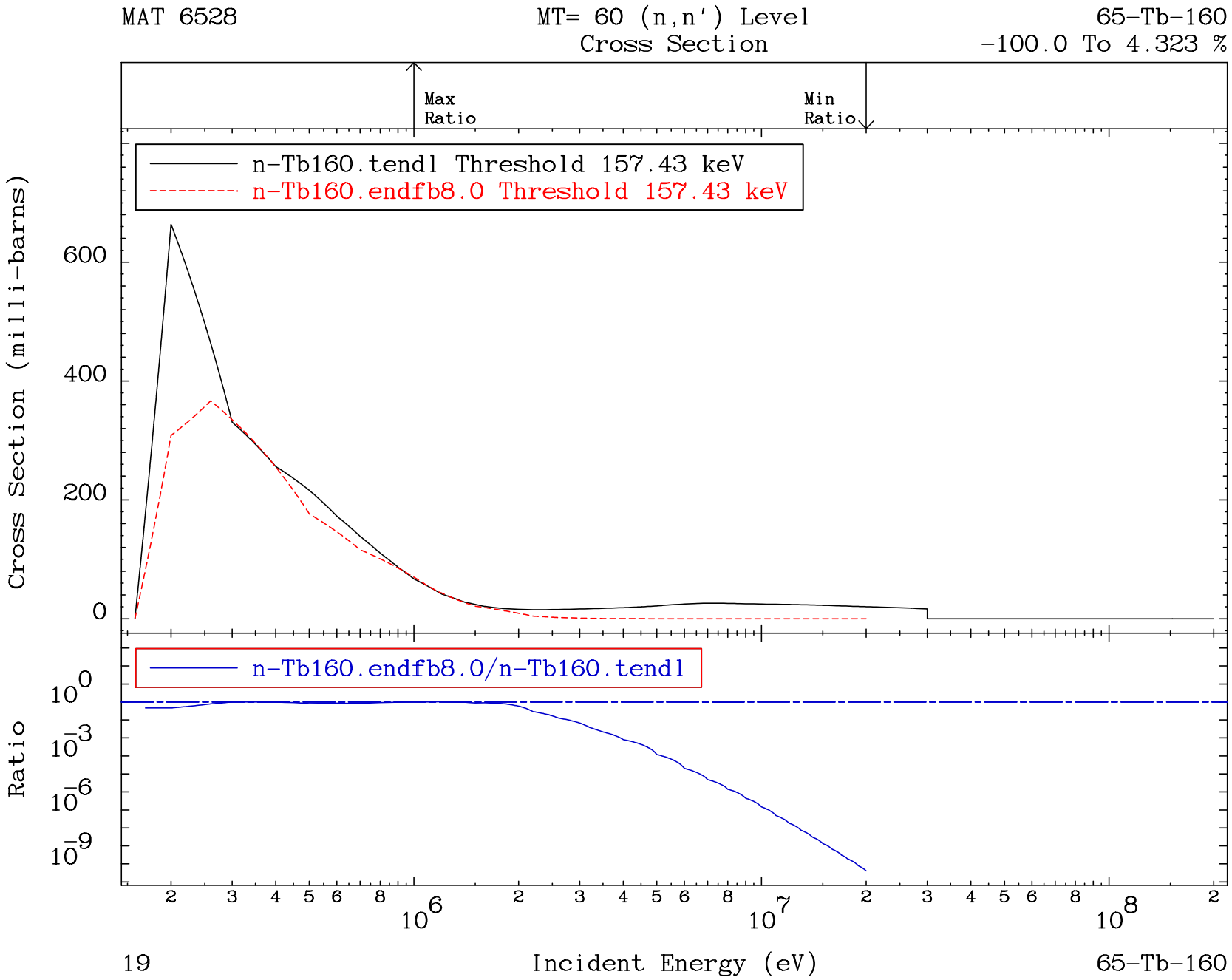

MAT 6528
MT= 55 (n,n') Level
Cross Section
65-Tb-160
-34.37 To 330.7 %
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 106.24 keV
n-Tb160.endfb8.0 Threshold 106.24 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
4
2
10^5
10^6
10^7
10^8
14
Incident Energy (eV)
65-Tb-160

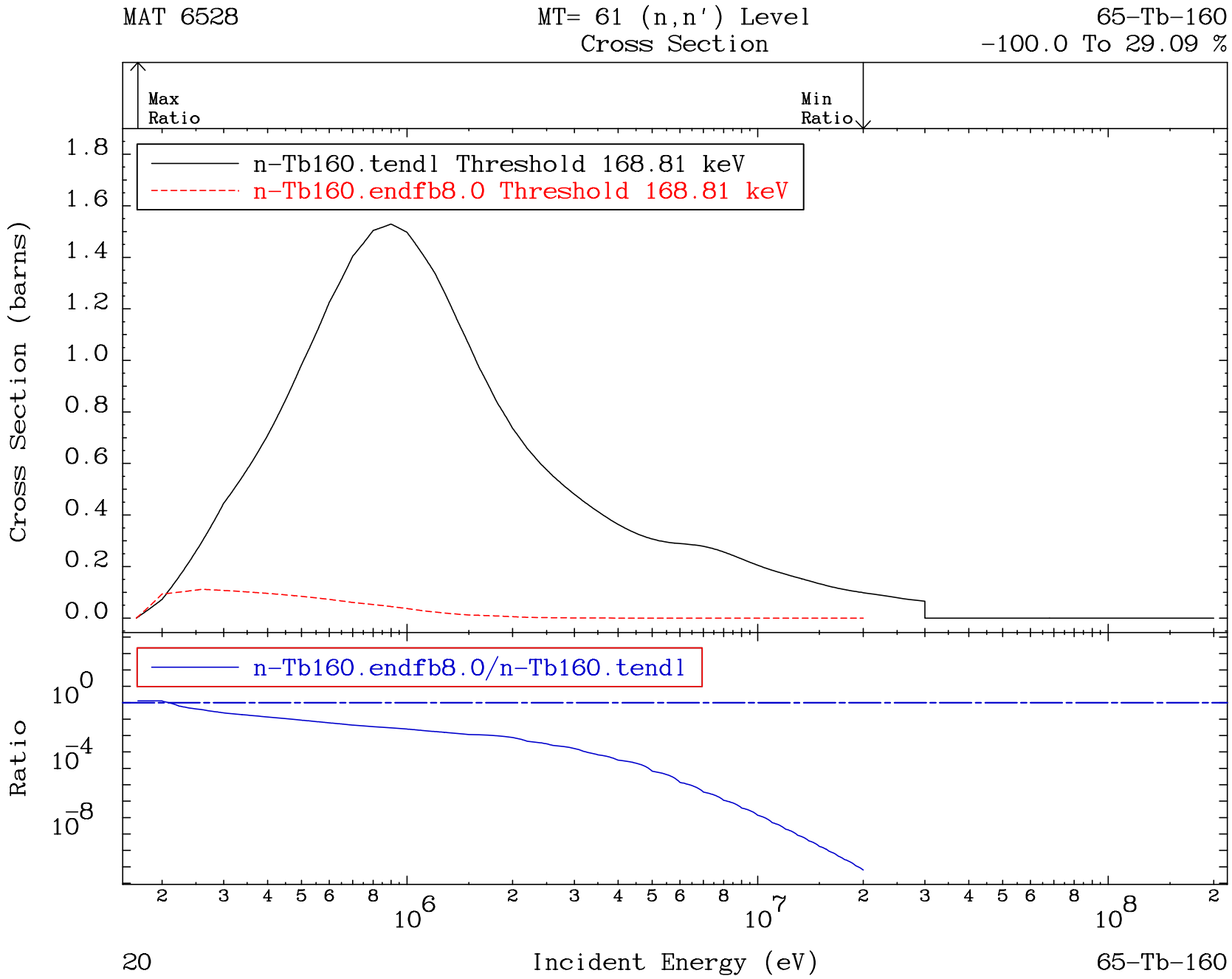

MAT 6528
MT= 56 (n,n') Level
Cross Section
65-Tb-160
-34.80 To 327.8 %
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 127.28 keV
n-Tb160.endfb8.0 Threshold 127.28 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
4
2
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
65-Tb-160

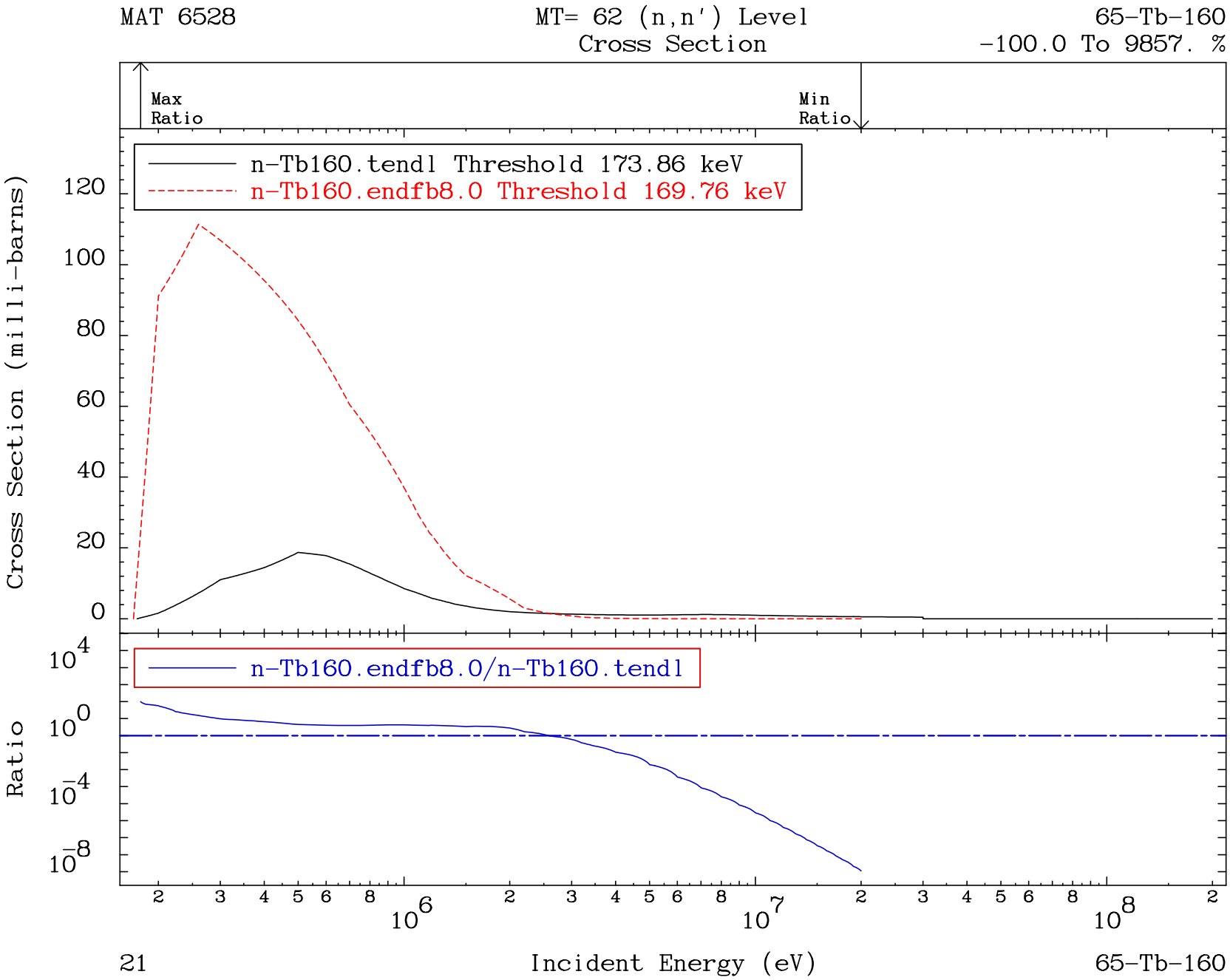

MAT 6528
MT= 57 (n,n') Level
Cross Section
65-Tb-160
-100.0 To 81.14 %
Max
Ratio
Min
Ratio
n-Tb160.tendl Threshold 134.06 keV
n-Tb160.endfb8.0 Threshold 134.06 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
65-Tb-160

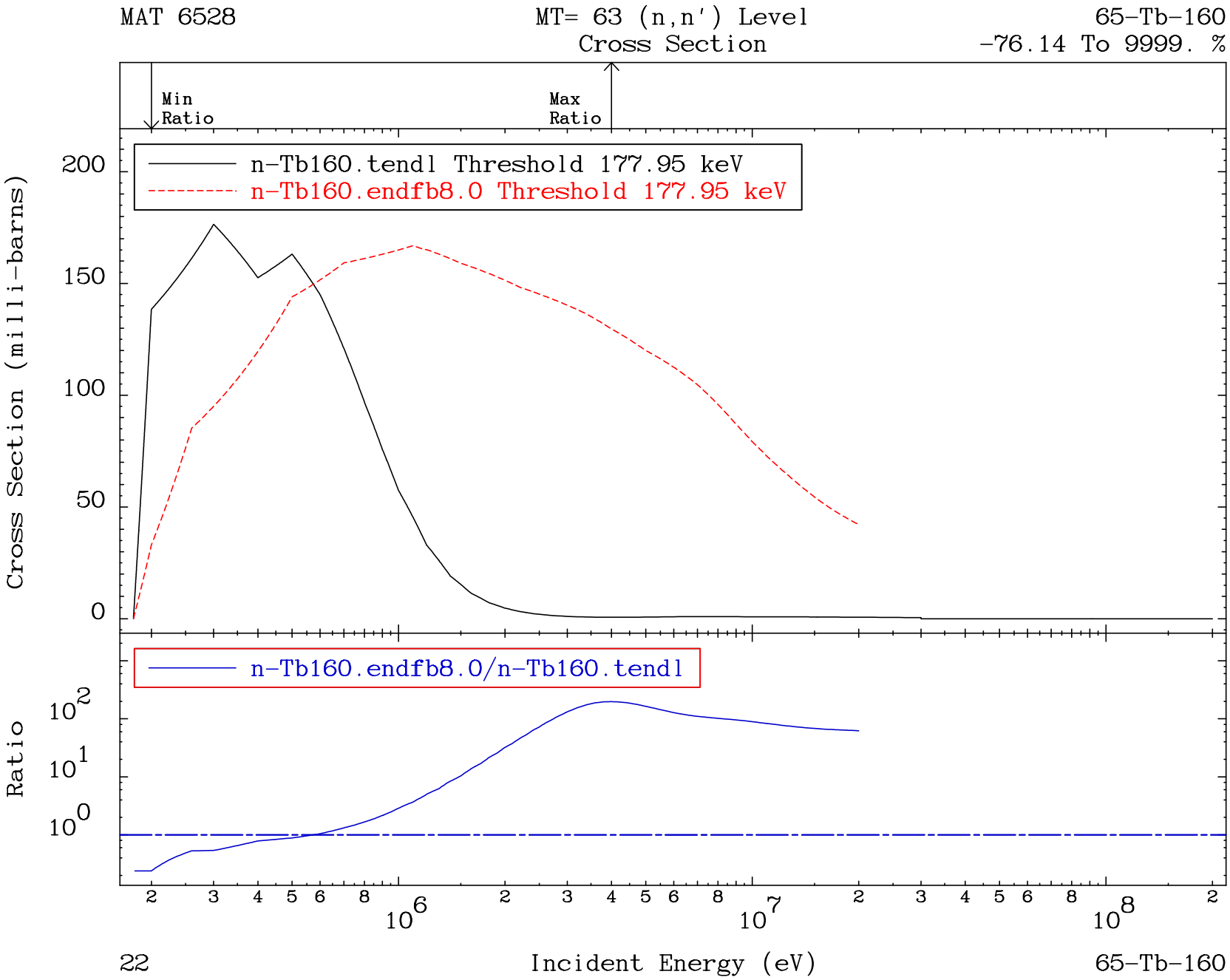

MAT 6528
MT= 58 (n,n') Level
Cross Section
65-Tb-160
-32.37 To 333.3 %
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 139.61 keV
n-Tb160.endfb8.0 Threshold 139.61 keV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
4
2
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
65-Tb-160

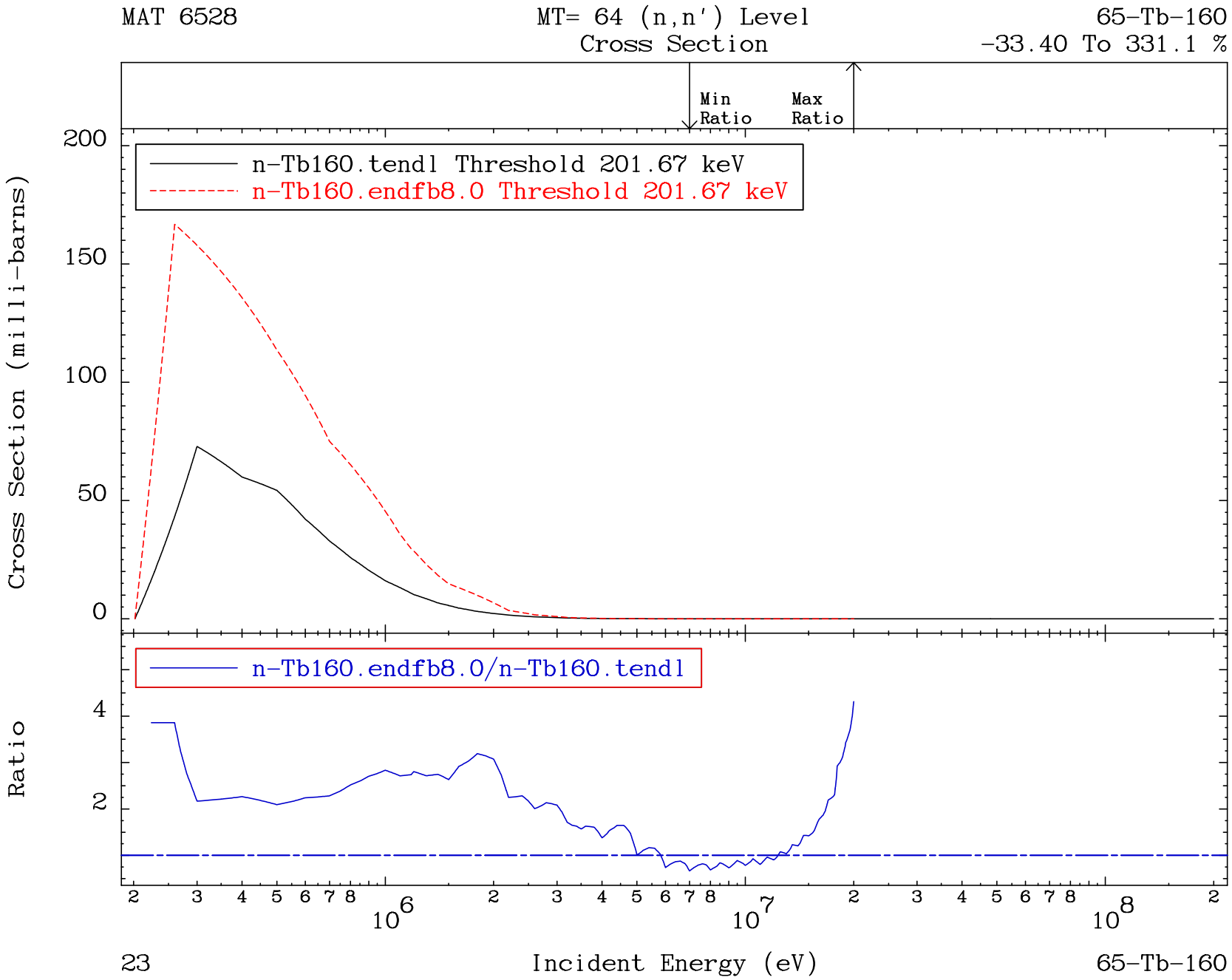

MAT 6528
MT= 59 (n,n') Level
Cross Section
65-Tb-160
-39.27 To 353.7 %
Min
Ratio
n-Tb160.tendl Threshold 148.89 keV
n-Tb160.endfb8.0 Threshold 140.35 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
4
2
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
18
Incident Energy (eV)
65-Tb-160

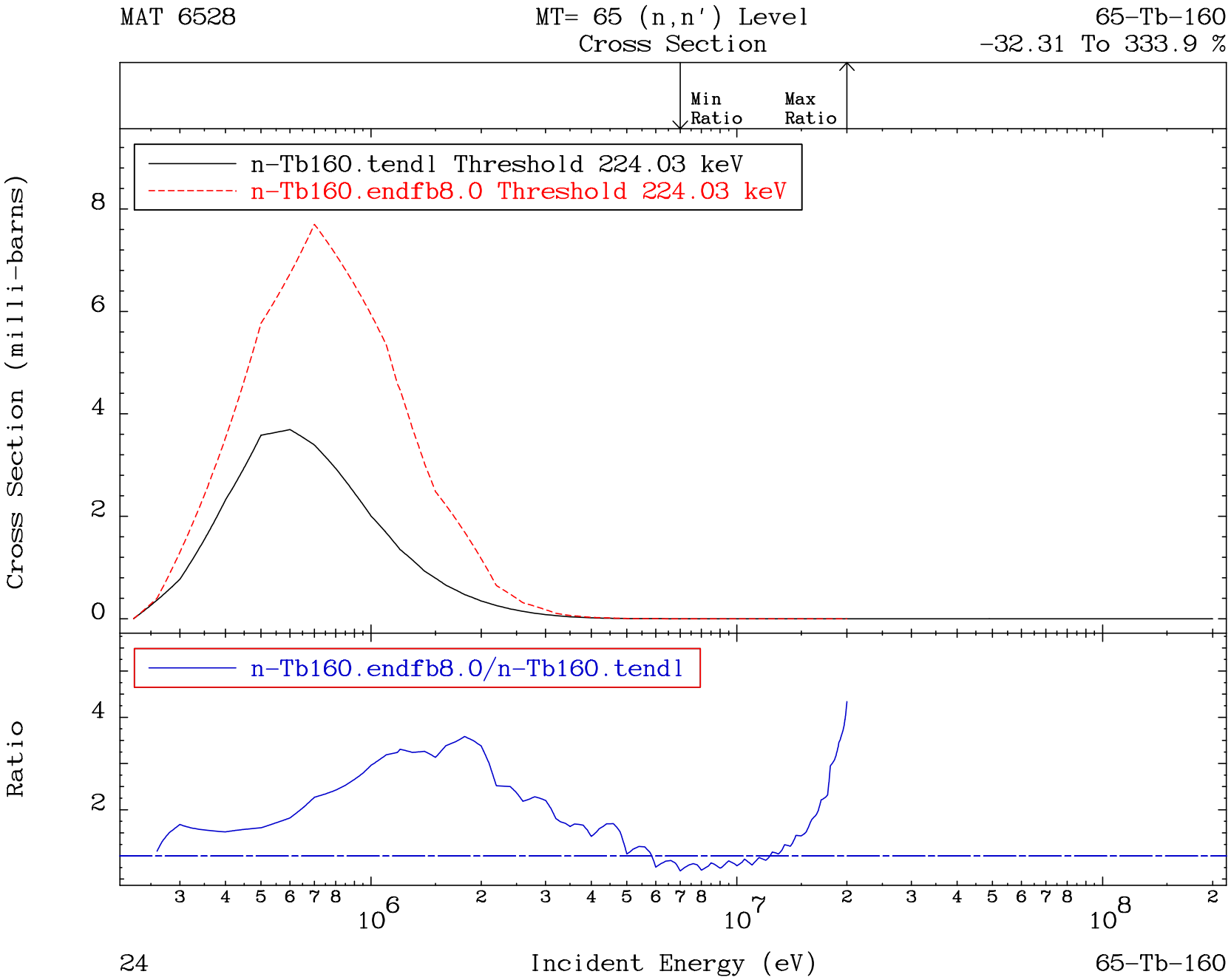

MAT 6528
MT= 60 (n,n') Level
Cross Section
65-Tb-160
-100.0 To 4.323 %
Max Ratio
Min Ratio
n-Tb160.tendl Threshold 157.43 keV
n-Tb160.endfb8.0 Threshold 157.43 keV
Cross Section (milli-barns)
600
400
200
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
65-Tb-160

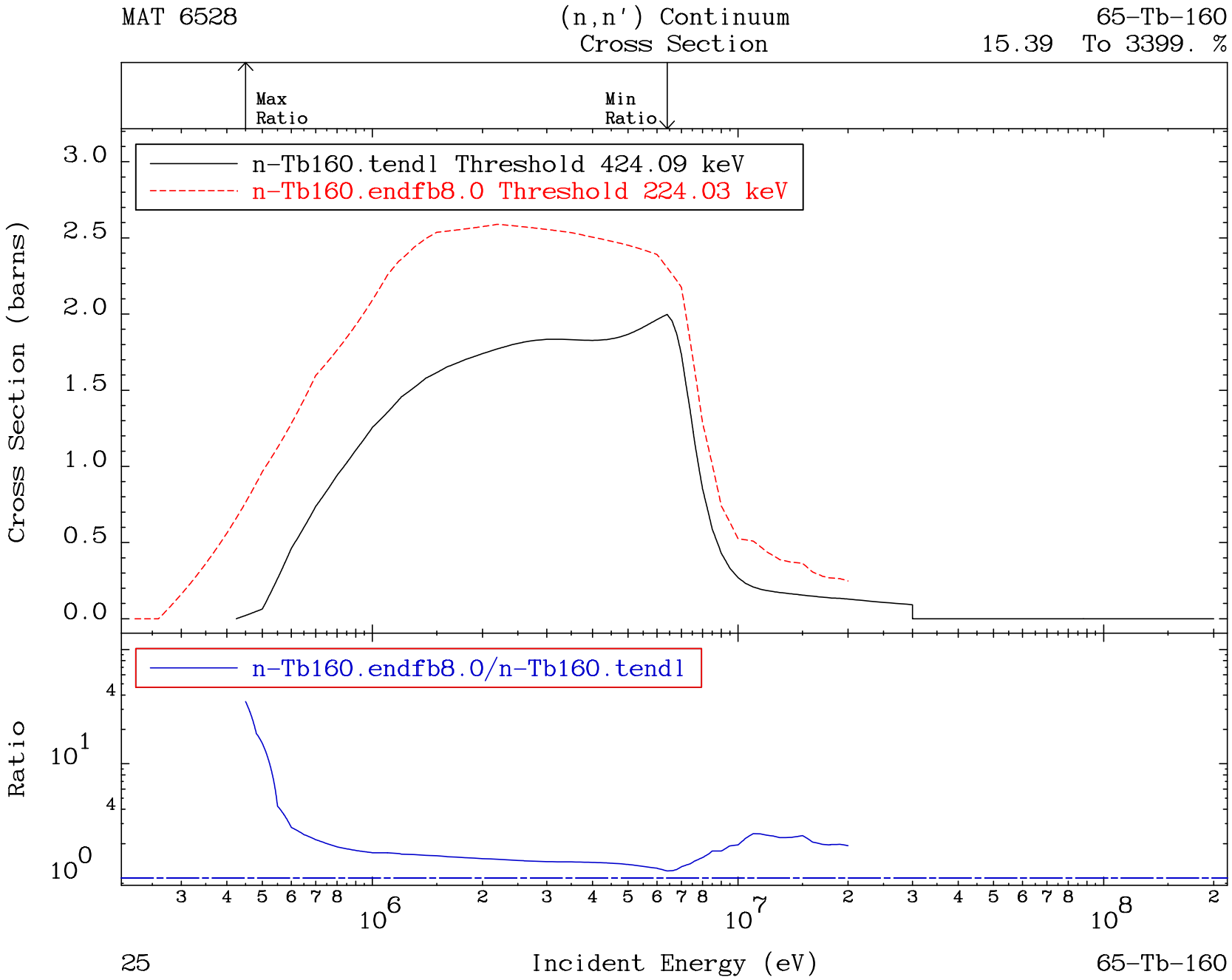

MAT 6528
MT= 61 (n,n') Level
Cross Section
65-Tb-160
-100.0 To 29.09 %
Max Ratio
Min Ratio
n-Tb160.tendl Threshold 168.81 keV
n-Tb160.endfb8.0 Threshold 168.81 keV
Cross Section (barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^0
10^-4
10^-8
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
65-Tb-160

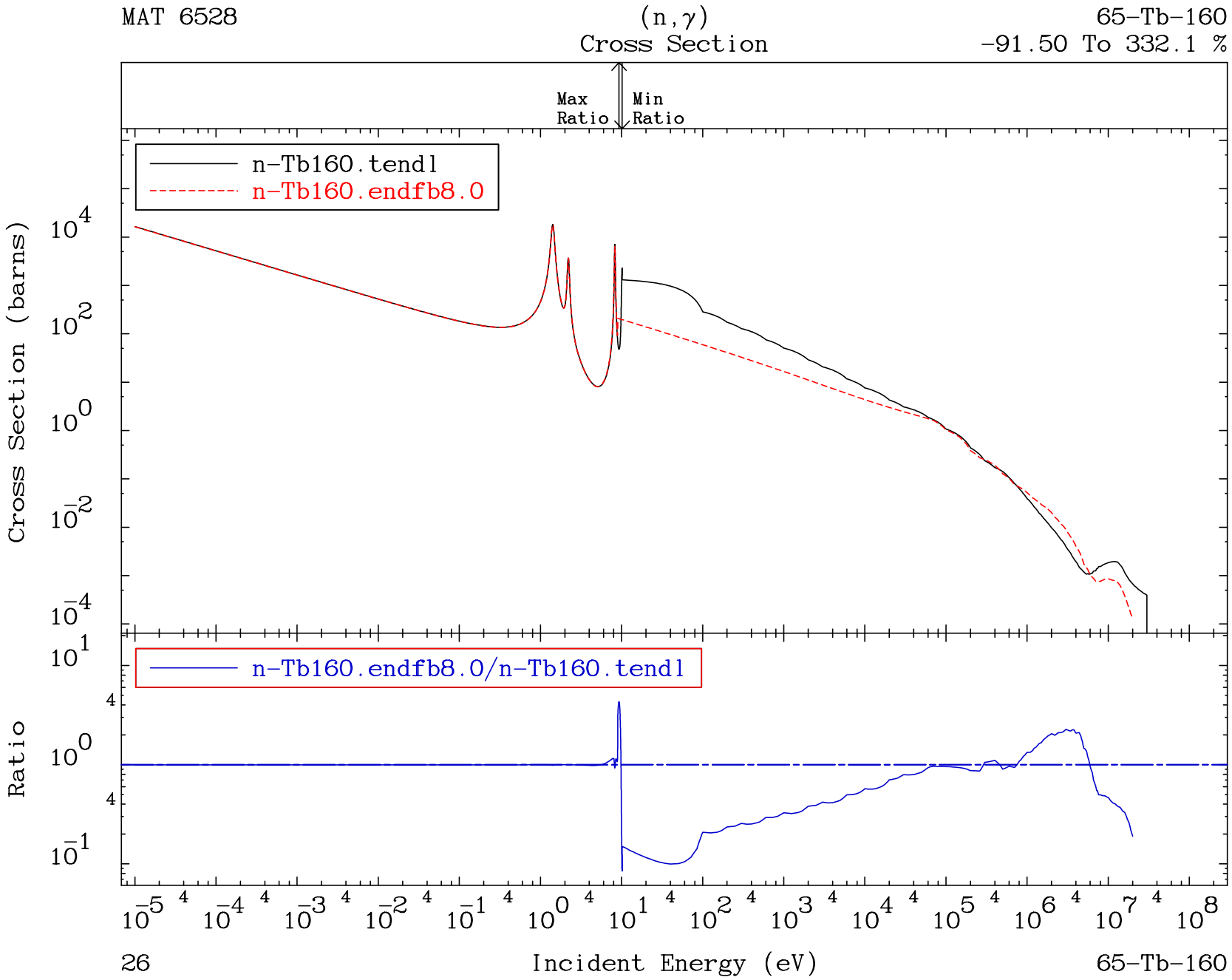

MAT 6528
MT= 62 (n,n') Level
Cross Section
65-Tb-160
-100.0 To 9857. %
Max
Ratio
Min
Ratio
n-Tb160.tendl Threshold 173.86 keV
n-Tb160.endfb8.0 Threshold 169.76 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^4
10^0
10^-4
10^-8
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
65-Tb-160

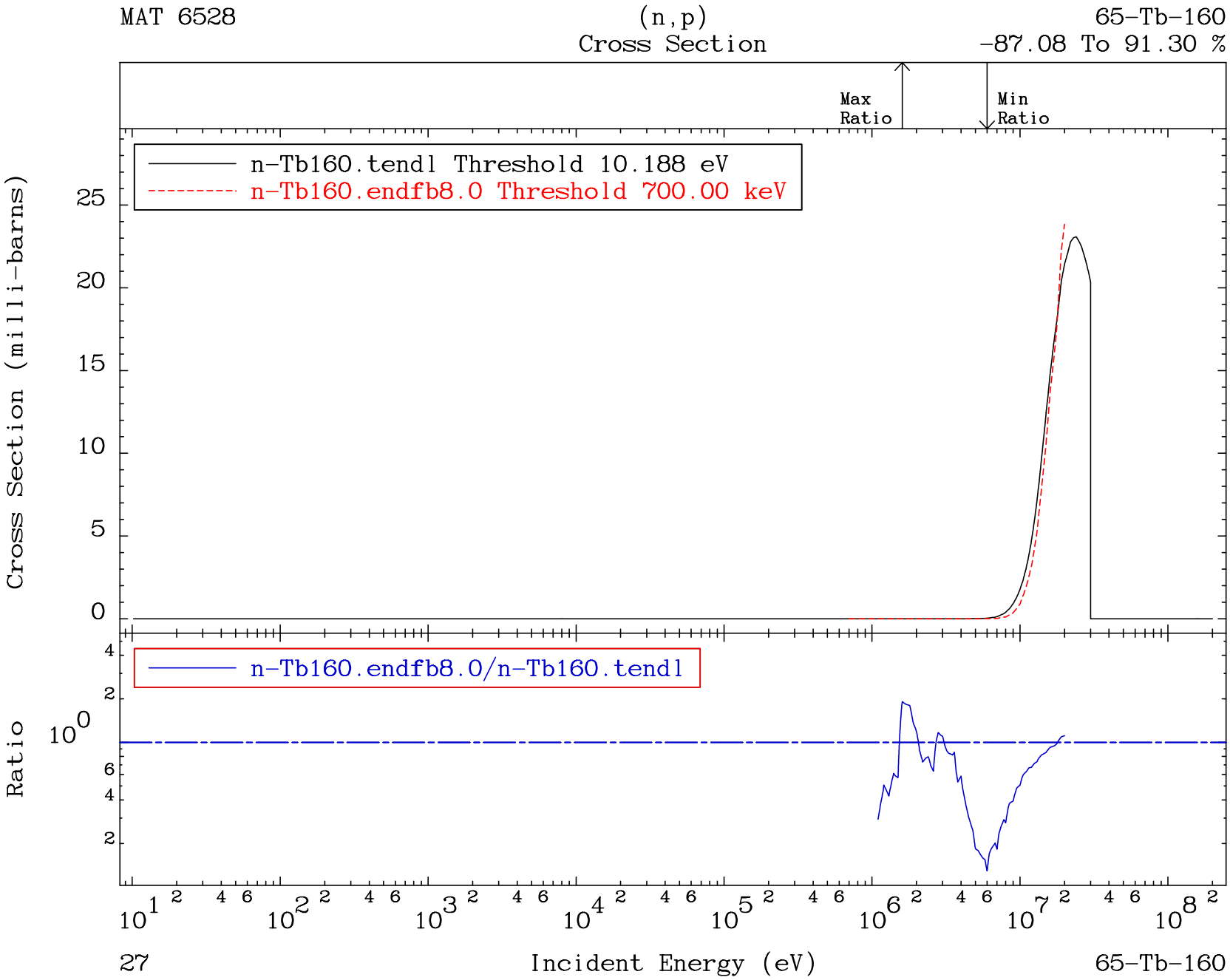

MAT 6528
MT= 63 (n,n') Level
Cross Section
65-Tb-160
-76.14 To 9999. %
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 177.95 keV
n-Tb160.endfb8.0 Threshold 177.95 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^2
10^1
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
22
Incident Energy (eV)
65-Tb-160

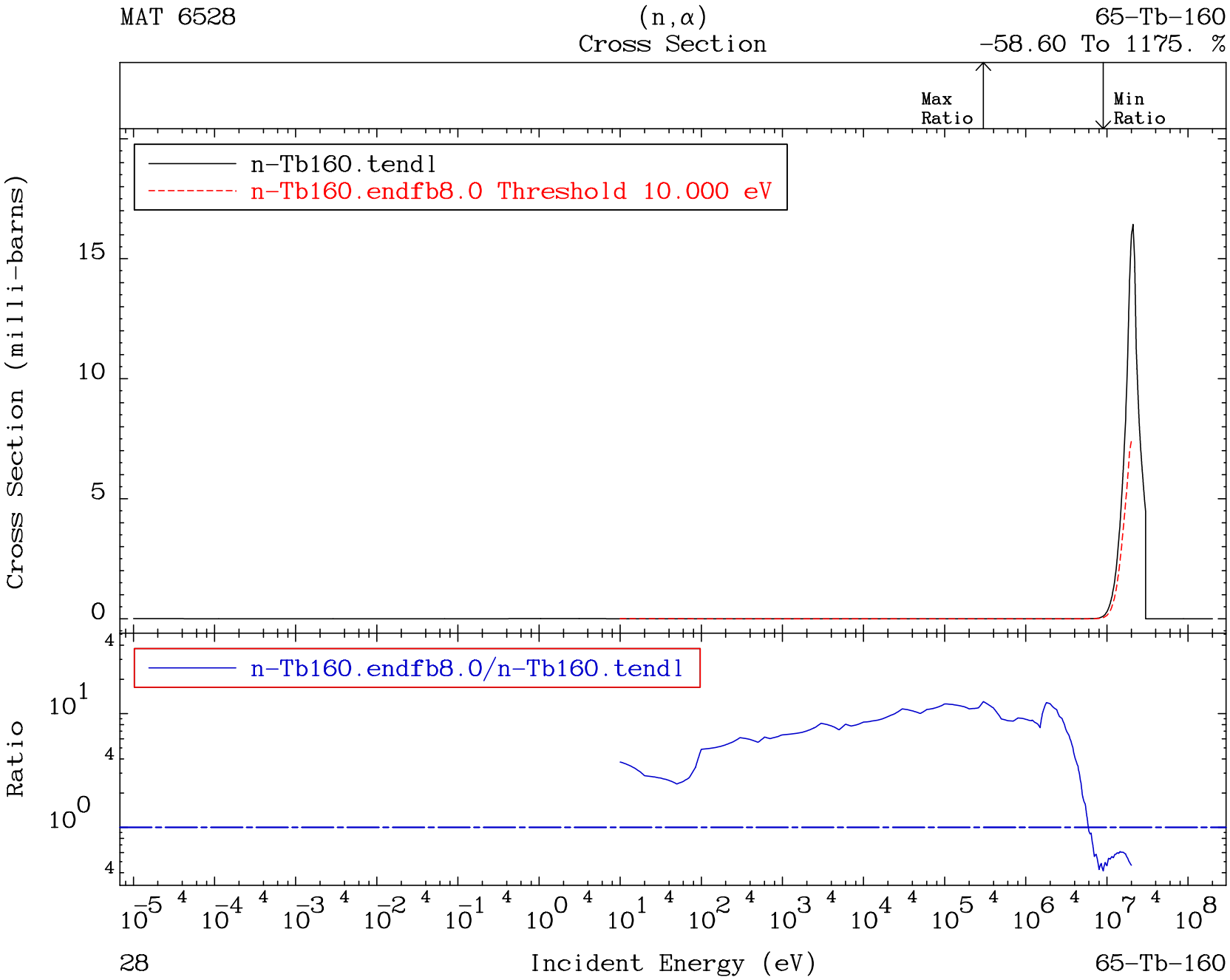

MAT 6528
MT= 64 (n,n') Level
Cross Section
65-Tb-160
-33.40 To 331.1 %
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 201.67 keV
n-Tb160.endfb8.0 Threshold 201.67 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
4
2
2 3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
65-Tb-160

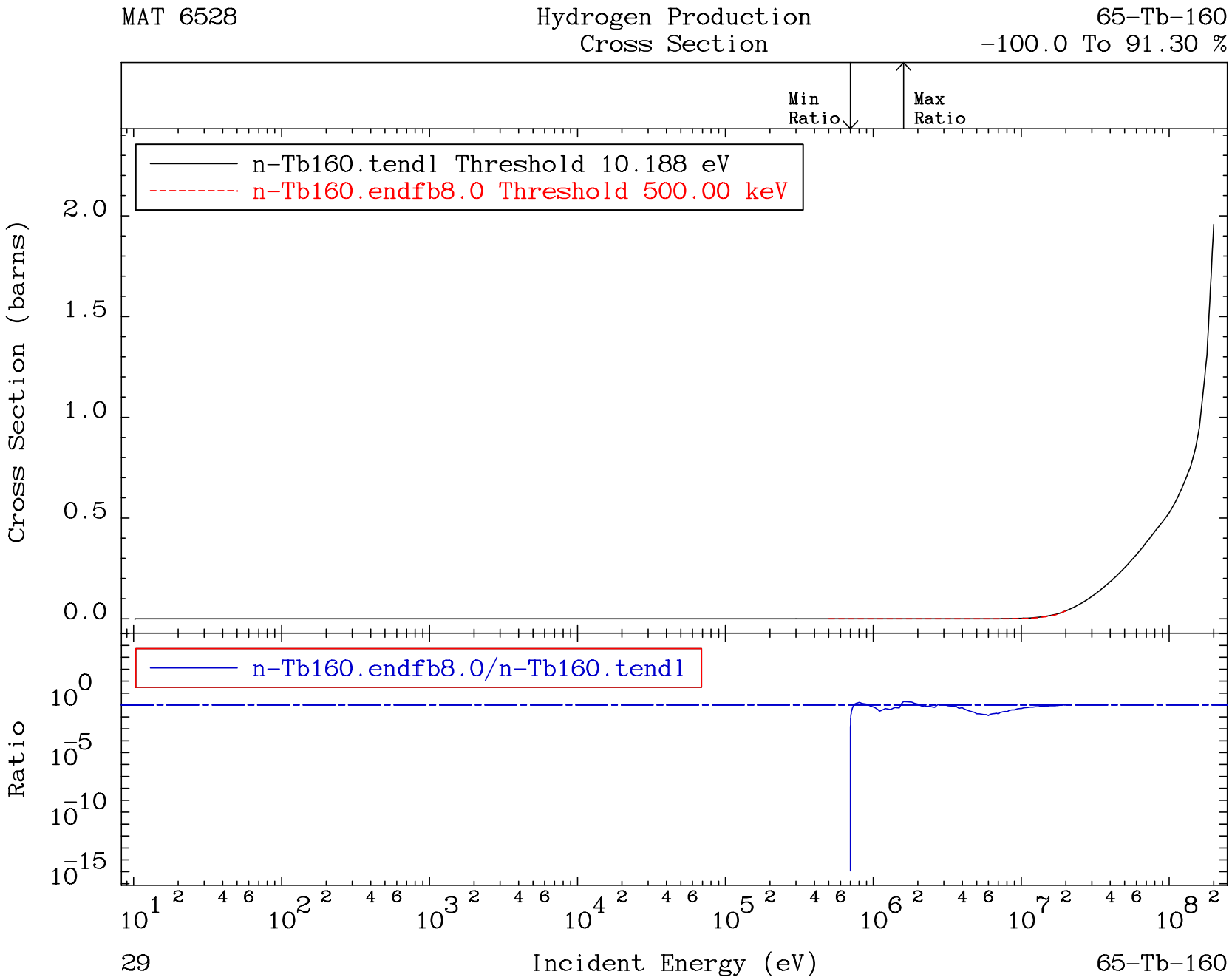

MAT 6528
MT= 65 (n,n') Level
Cross Section
65-Tb-160
-32.31 To 333.9 %
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 224.03 keV
n-Tb160.endfb8.0 Threshold 224.03 keV
Cross Section (milli-barns)
0
2
4
6
8
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
2
4
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
65-Tb-160

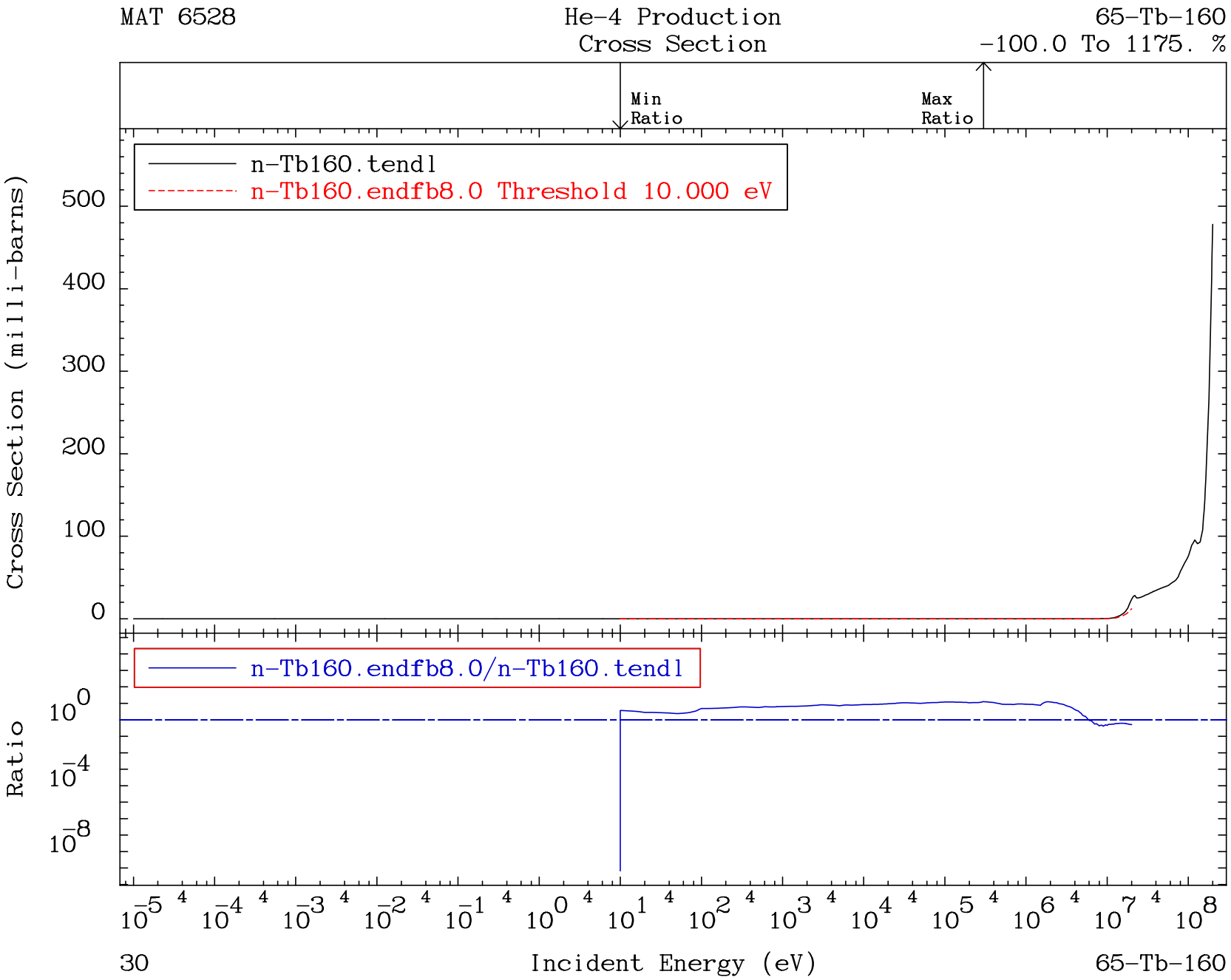

MAT 6528
(n,n') Continuum
Cross Section
65-Tb-160
15.39 To 3399. %
Max Ratio
Min Ratio
n-Tb160.tendl Threshold 424.09 keV
n-Tb160.endfb8.0 Threshold 224.03 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^1
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
65-Tb-160

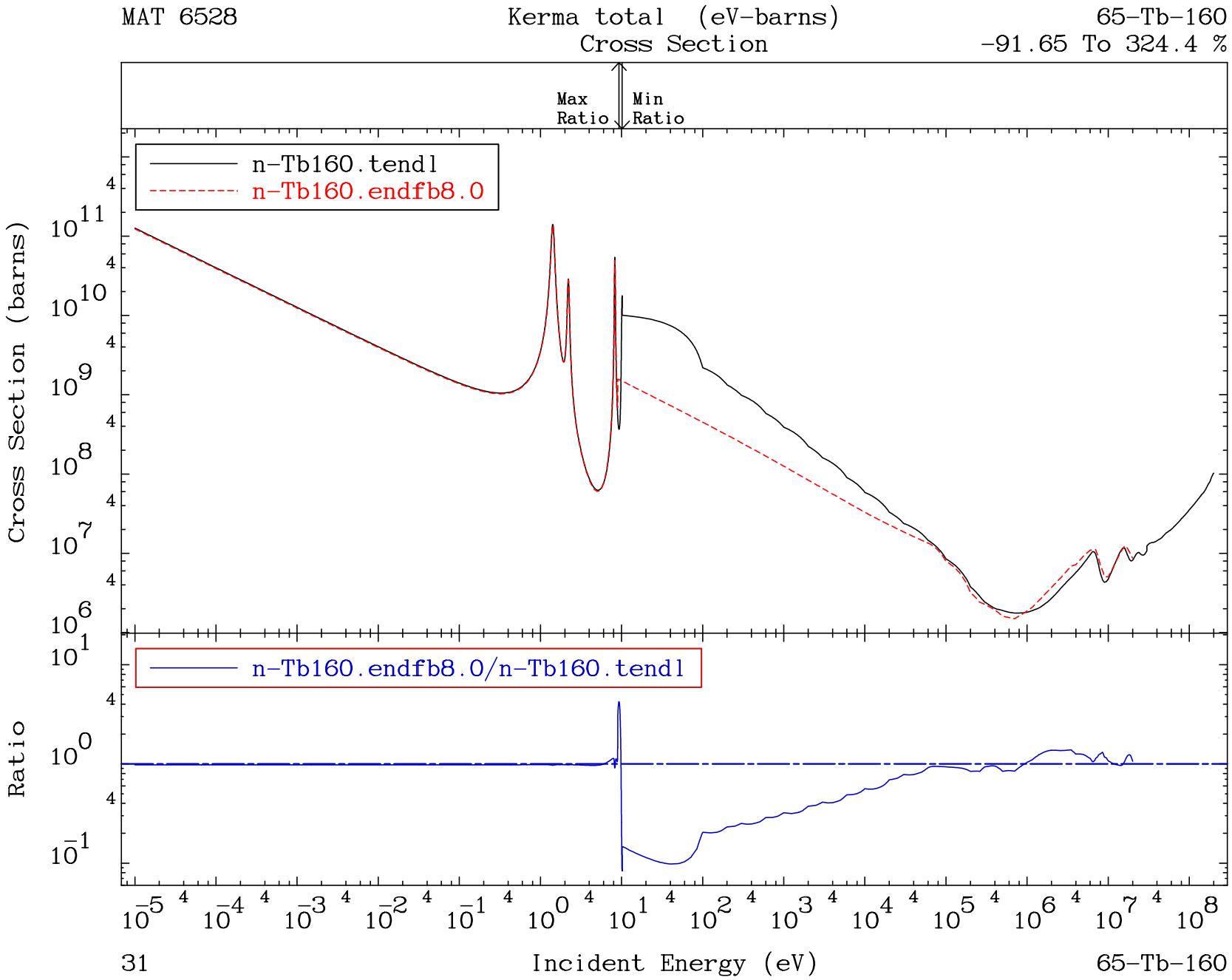

MAT 6528
(n,γ)
Cross Section
65-Tb-160
-91.50 To 332.1 %
Max Ratio
Min Ratio
n-Tb160.tendl
n-Tb160.endfb8.0
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
26
65-Tb-160

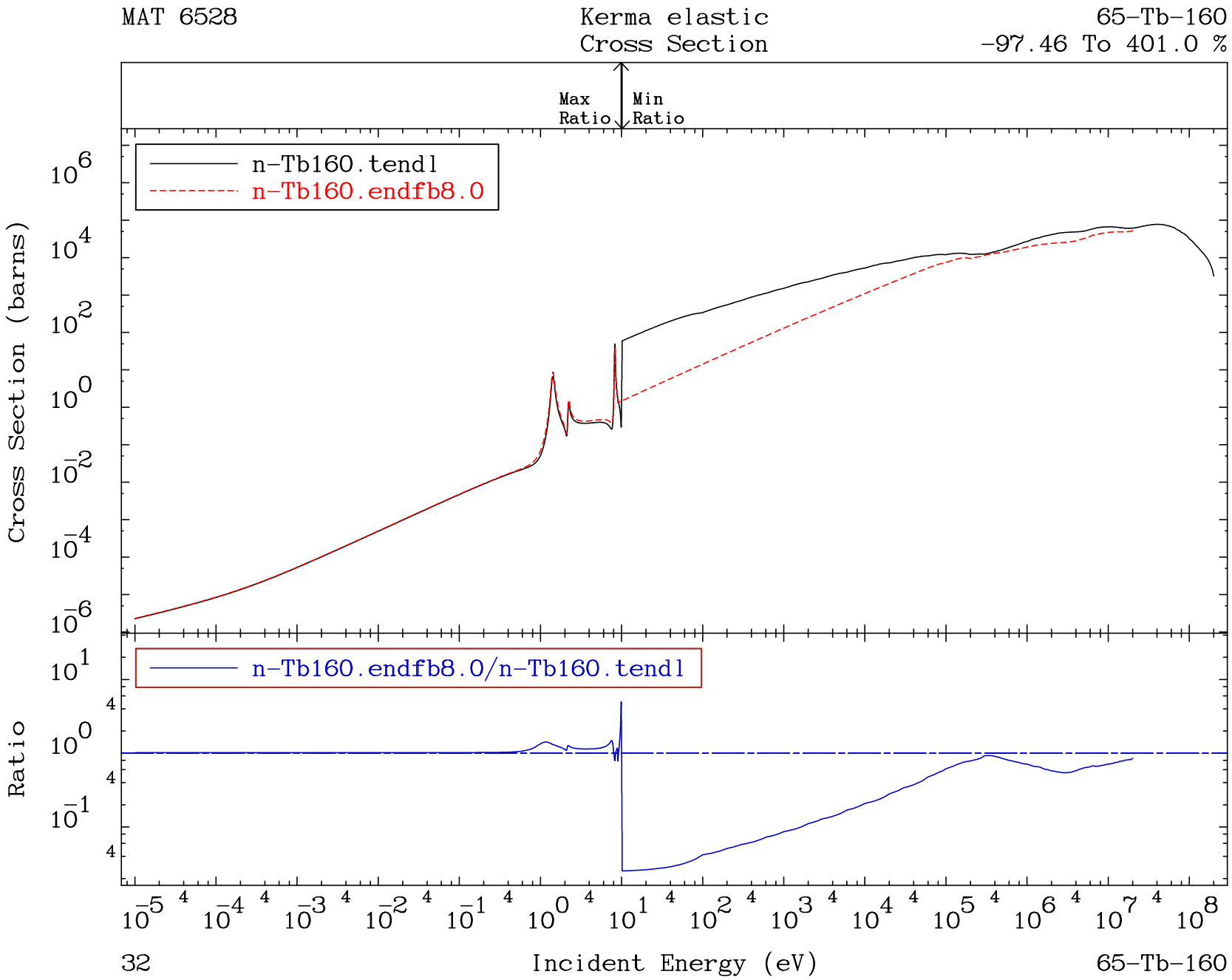

MAT 6528
(n,p)
Cross Section
65-Tb-160
-87.08 To 91.30 %
Max Ratio
Min Ratio
n-Tb160.tendl Threshold 10.188 eV
n-Tb160.endfb8.0 Threshold 700.00 keV
Cross Section (milli-barns)
0
5
10
15
20
25
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
Incident Energy (eV)
27
65-Tb-160

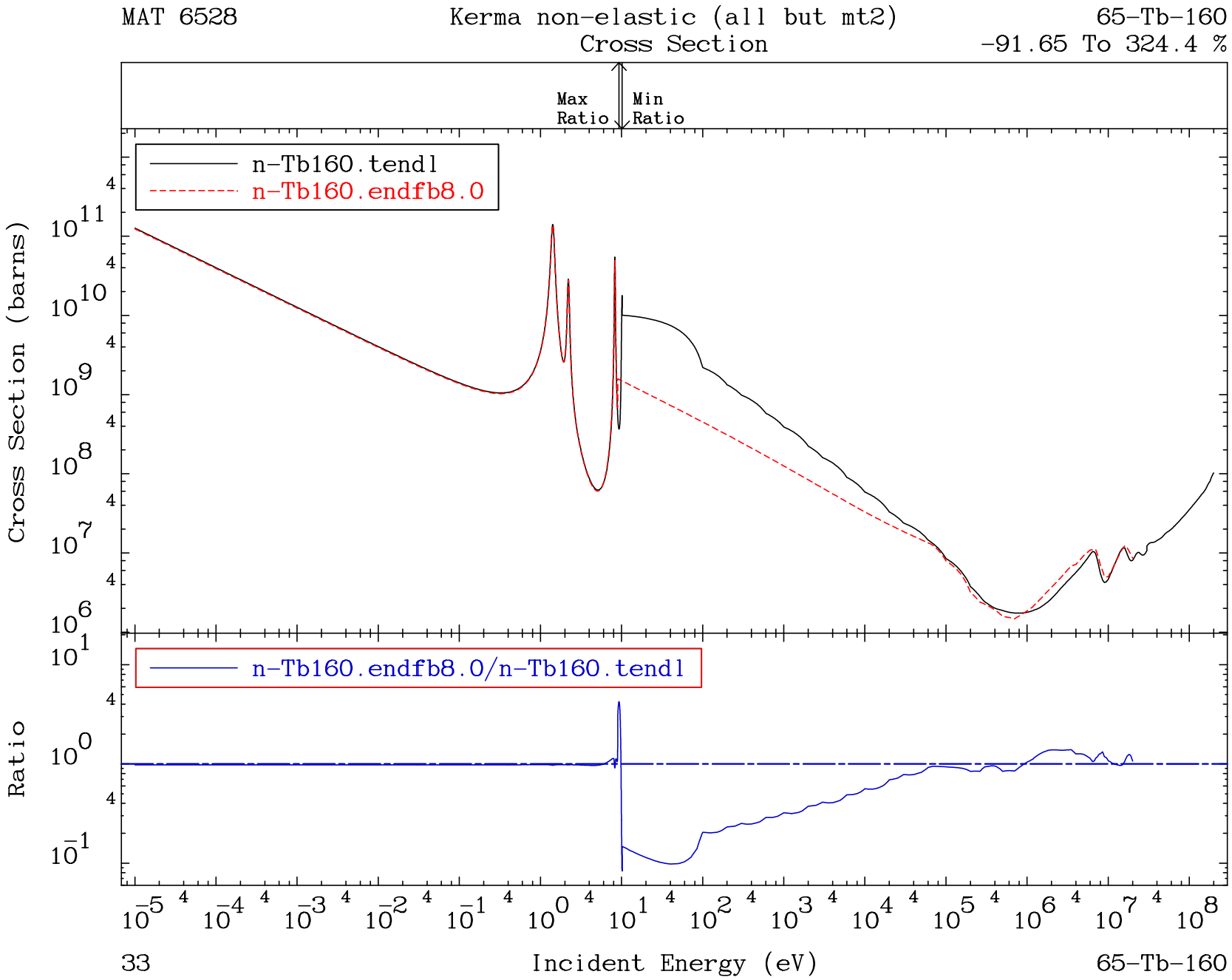

MAT 6528
(n,α)
Cross Section
65-Tb-160
-58.60 To 1175. %
Max Ratio
Min Ratio
n-Tb160.tendl
n-Tb160.endfb8.0 Threshold 10.000 eV
Cross Section (milli-barns)
15
10
5
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^1
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
28
Incident Energy (eV)
65-Tb-160

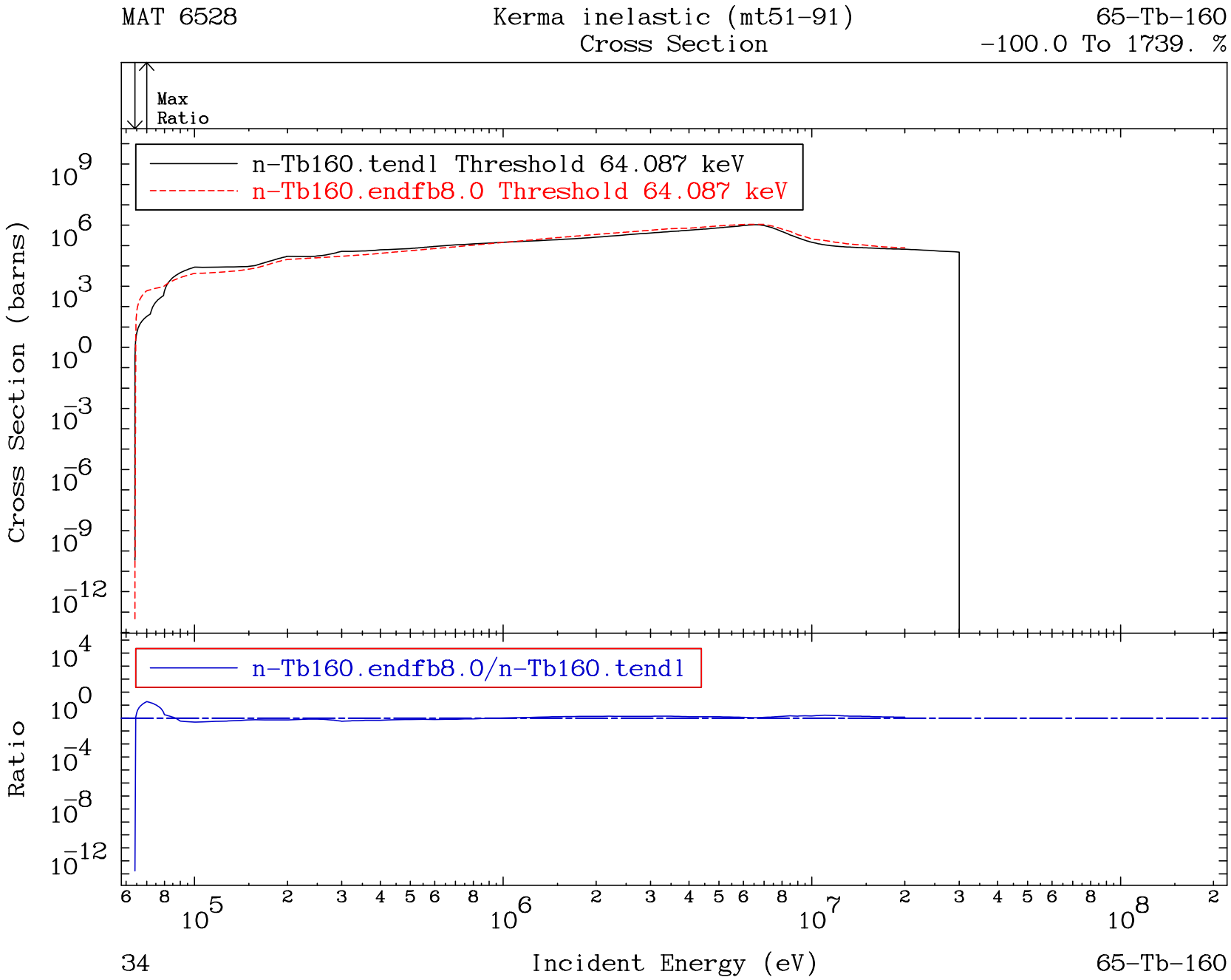

MAT 6528
Hydrogen Production
Cross Section
65-Tb-160
-100.0 To 91.30 %
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 10.188 eV
n-Tb160.endfb8.0 Threshold 500.00 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^0
10^-5
10^-10
10^-15
10^1 2 4 6 10^2 2 4 6 10^3 2 4 6 10^4 2 4 6 10^5 2 4 6 10^6 2 4 6 10^7 2 4 6 10^8 2
29
Incident Energy (eV)
65-Tb-160

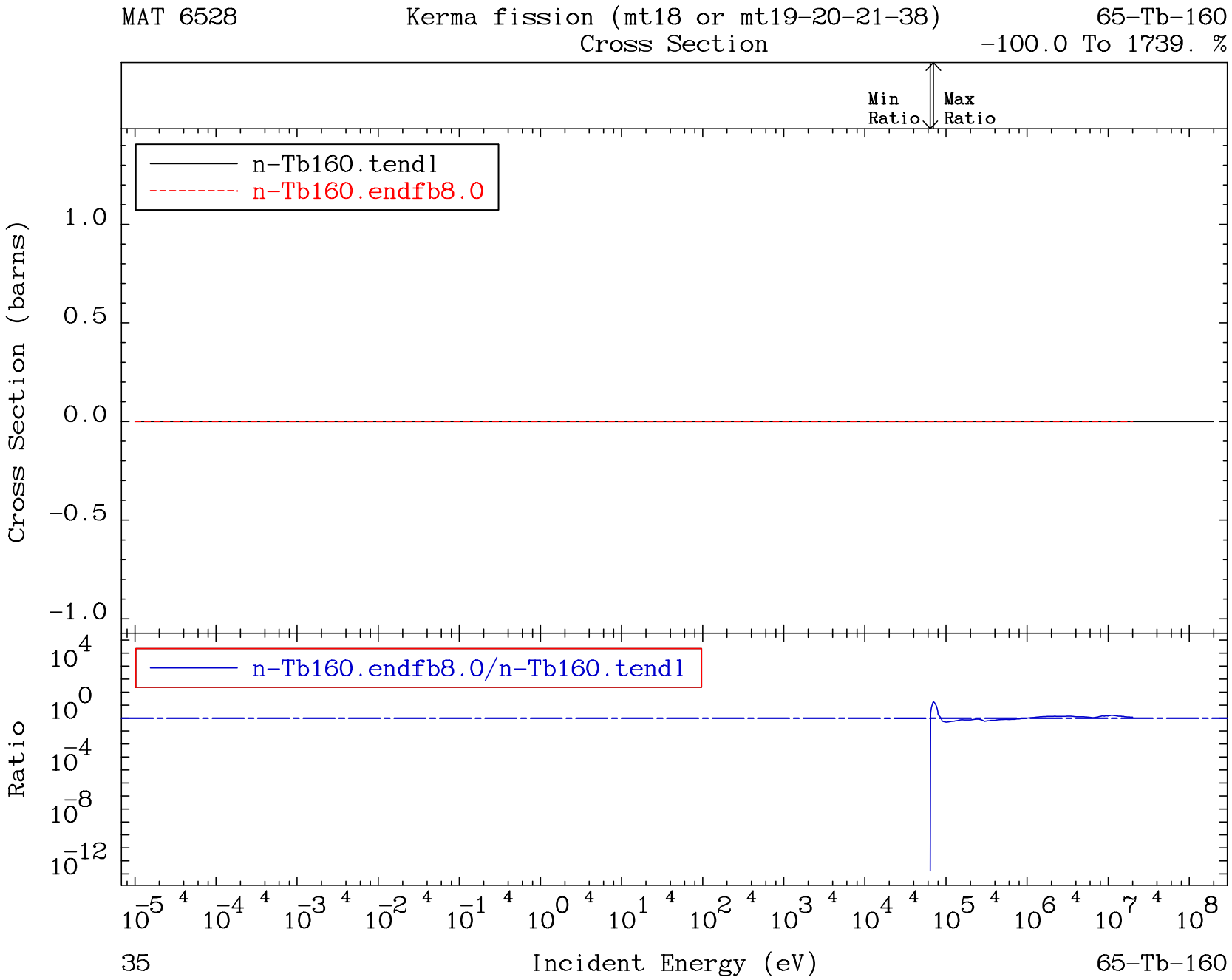

MAT 6528
He-4 Production
Cross Section
65-Tb-160
-100.0 To 1175. %
Min
Ratio
Max
Ratio
n-Tb160.tendl
n-Tb160.endfb8.0 Threshold 10.000 eV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^0
10^-4
10^-8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
30
Incident Energy (eV)
65-Tb-160

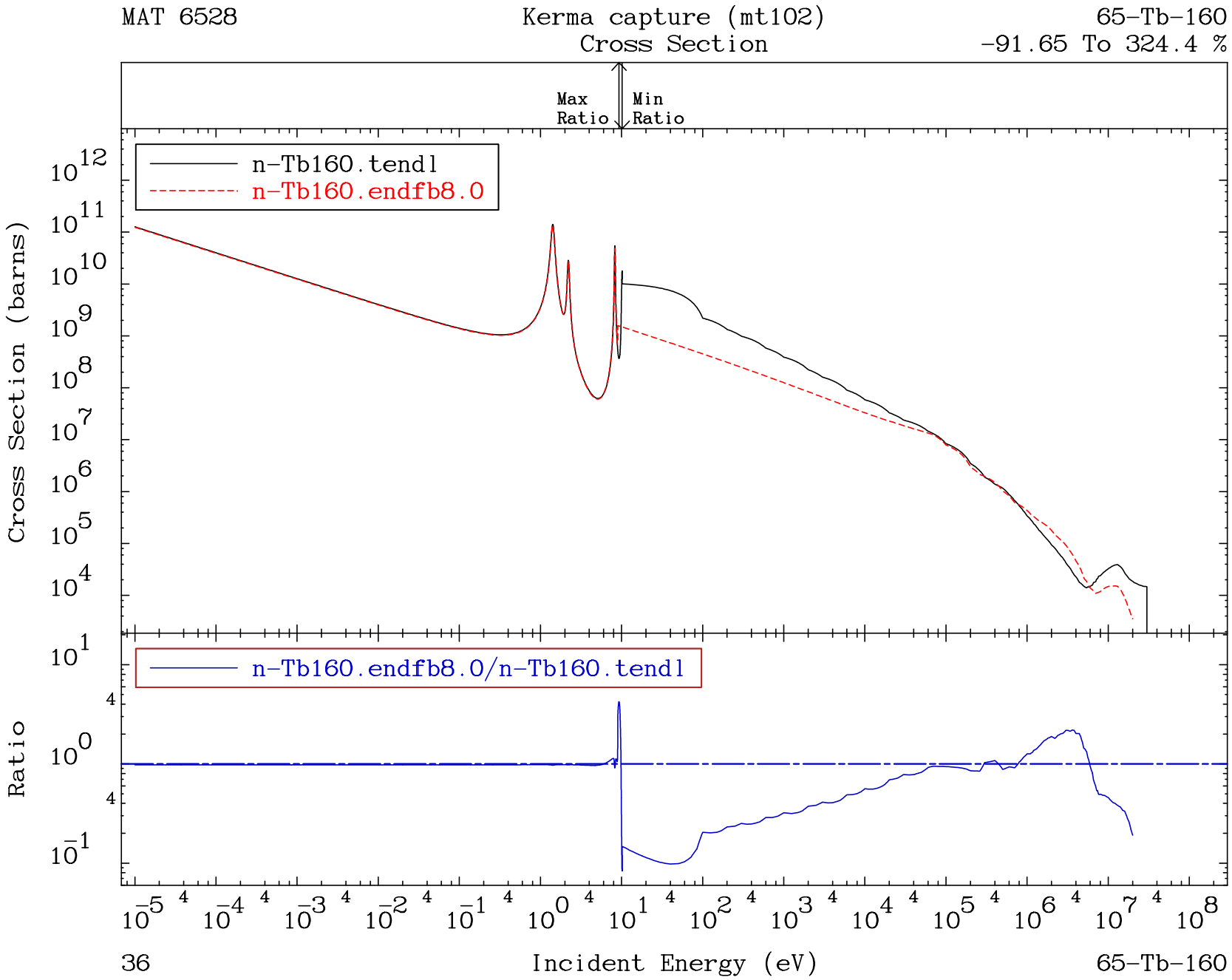

MAT 6528
Kerma total (eV-barns)
Cross Section
65-Tb-160
-91.65 To 324.4 %
Max Ratio
Min Ratio
n-Tb160.tendl
n-Tb160.endfb8.0
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
31
65-Tb-160

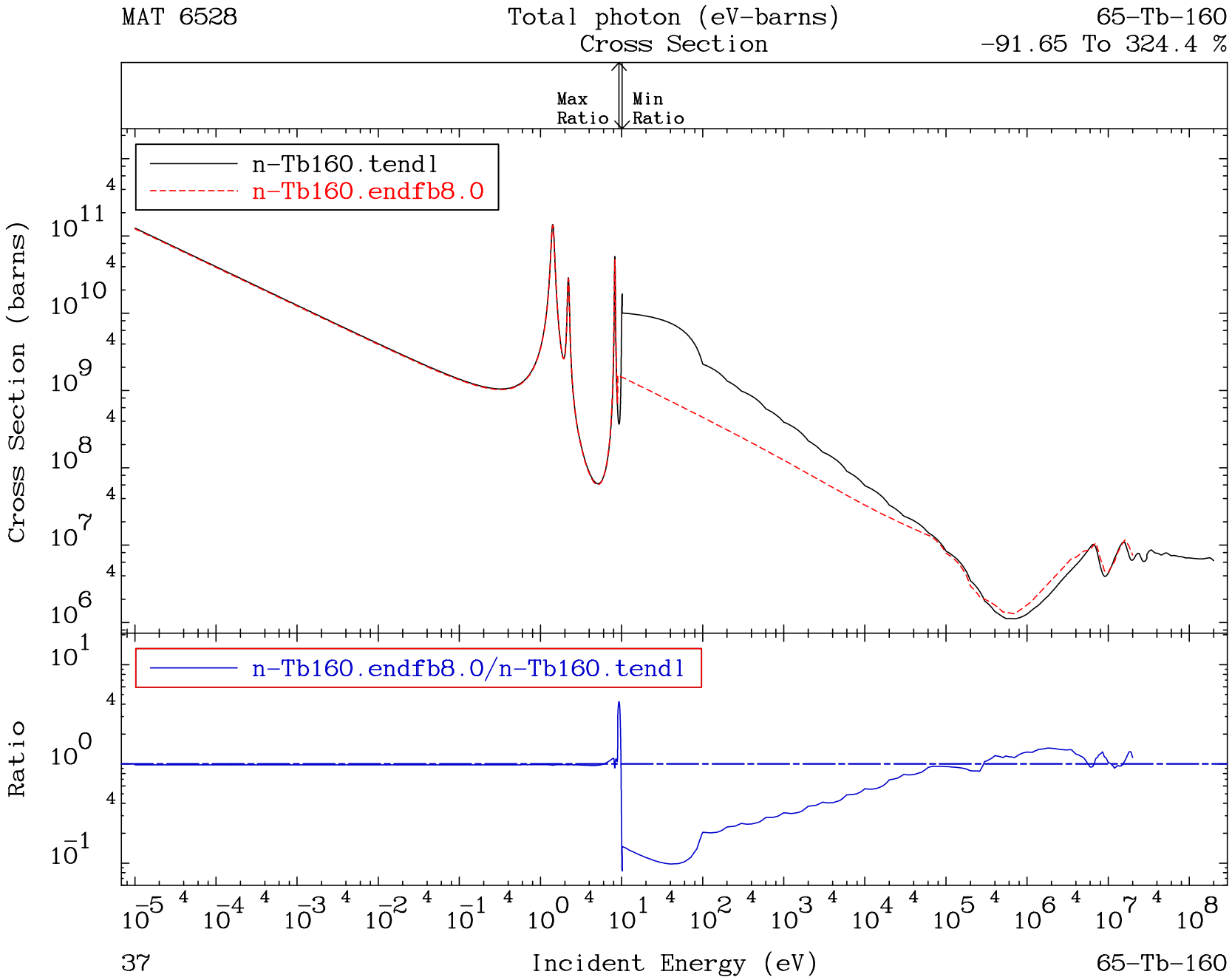

MAT 6528
Kerma elastic
Cross Section
65-Tb-160
-97.46 To 401.0 %
Max Ratio
Min Ratio
n-Tb160.tendl
n-Tb160.endfb8.0
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
32
65-Tb-160

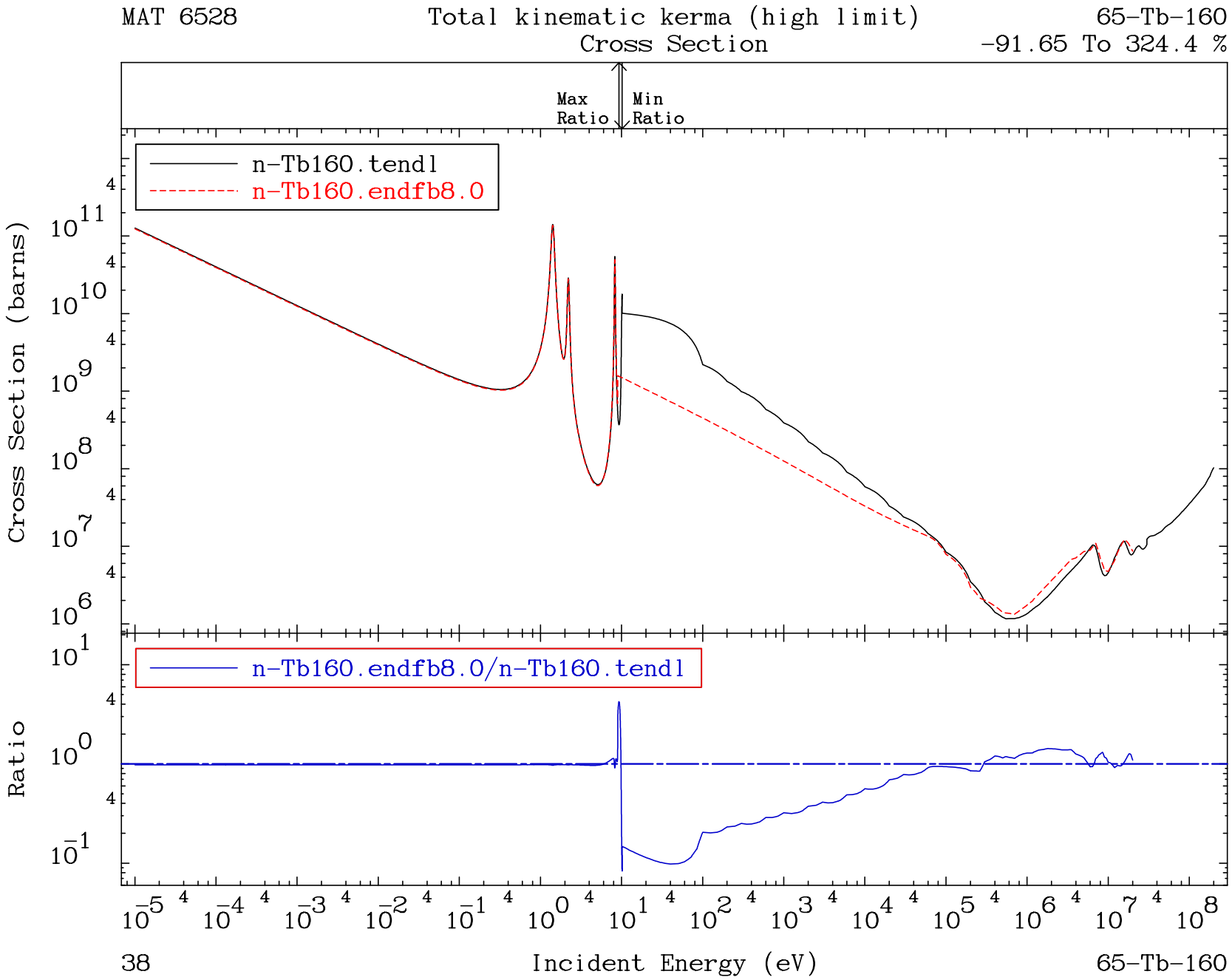

MAT 6528
Kerma non-elastic (all but mt2)
Cross Section
65-Tb-160
-91.65 To 324.4 %
Max Ratio
Min Ratio
n-Tb160.tendl
n-Tb160.endfb8.0
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
33
65-Tb-160

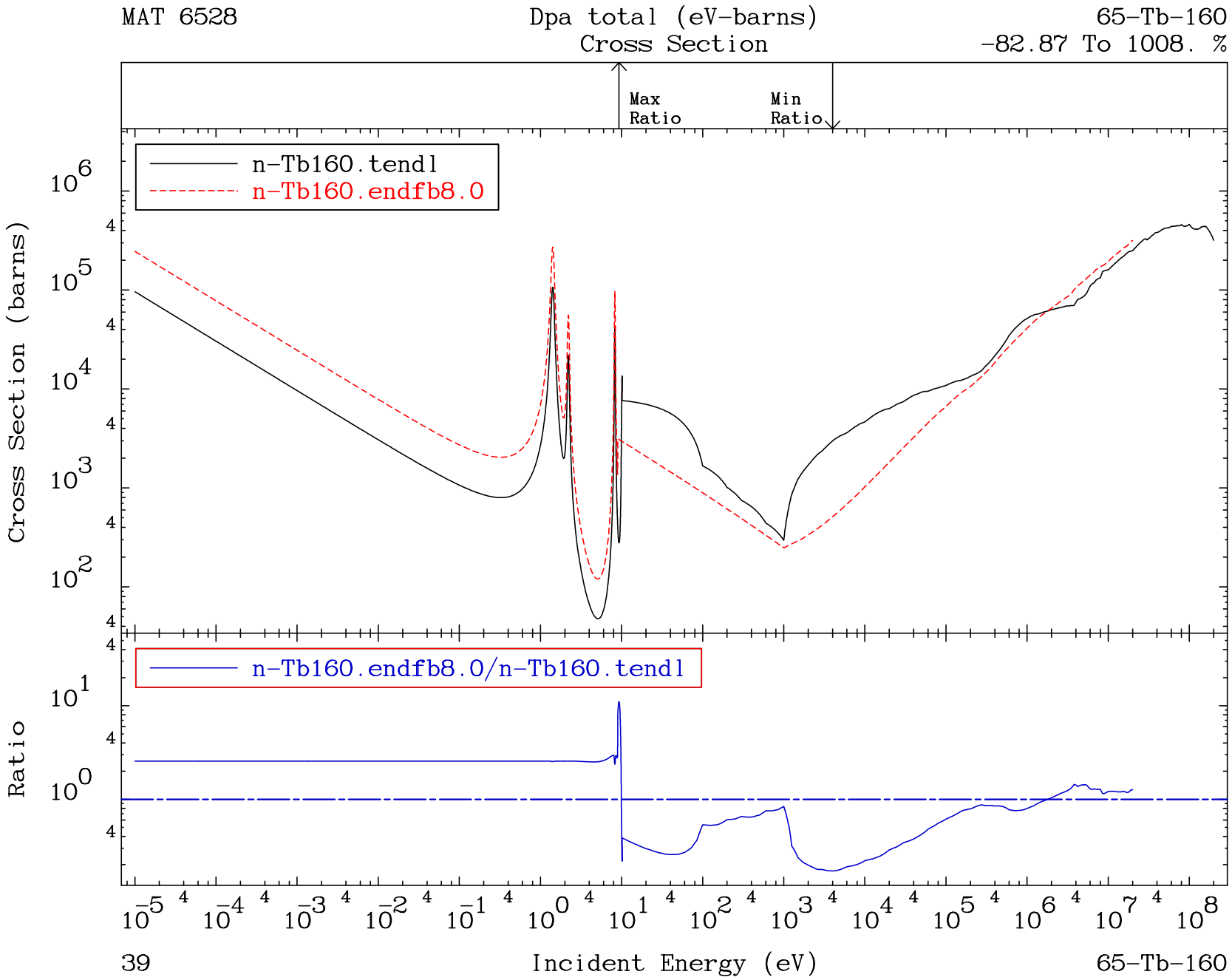

MAT 6528
Kerma inelastic (mt51-91)
Cross Section
65-Tb-160
-100.0 To 1739. %
Max
Ratio
n-Tb160.tendl Threshold 64.087 keV
n-Tb160.endfb8.0 Threshold 64.087 keV
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
34
65-Tb-160

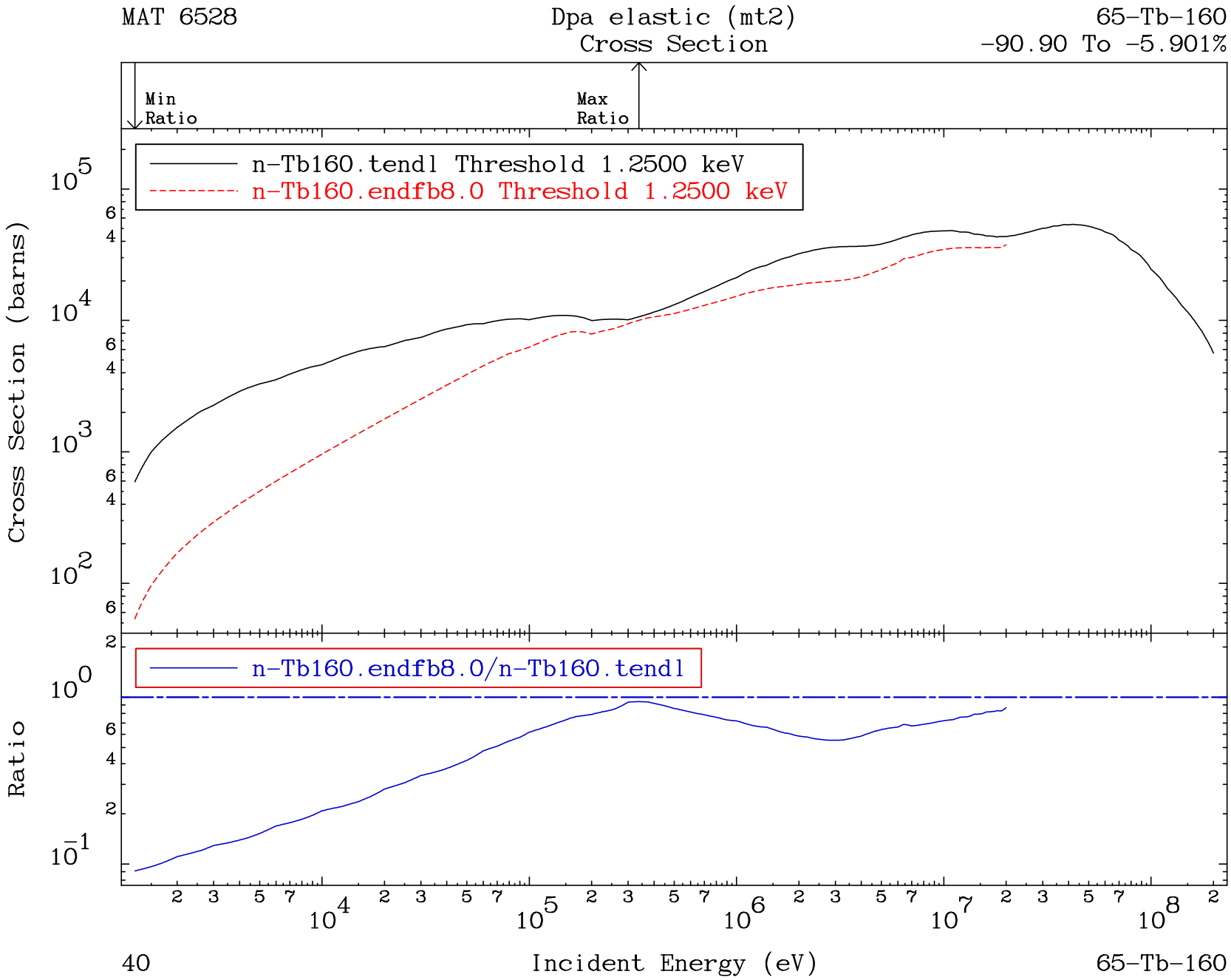

MAT 6528
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
65-Tb-160
-100.0 To 1739. %
Min Ratio
Max Ratio
n-Tb160.tendl
n-Tb160.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
10^4
10^0
10^-4
10^-8
10^-12
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
35
Incident Energy (eV)
65-Tb-160

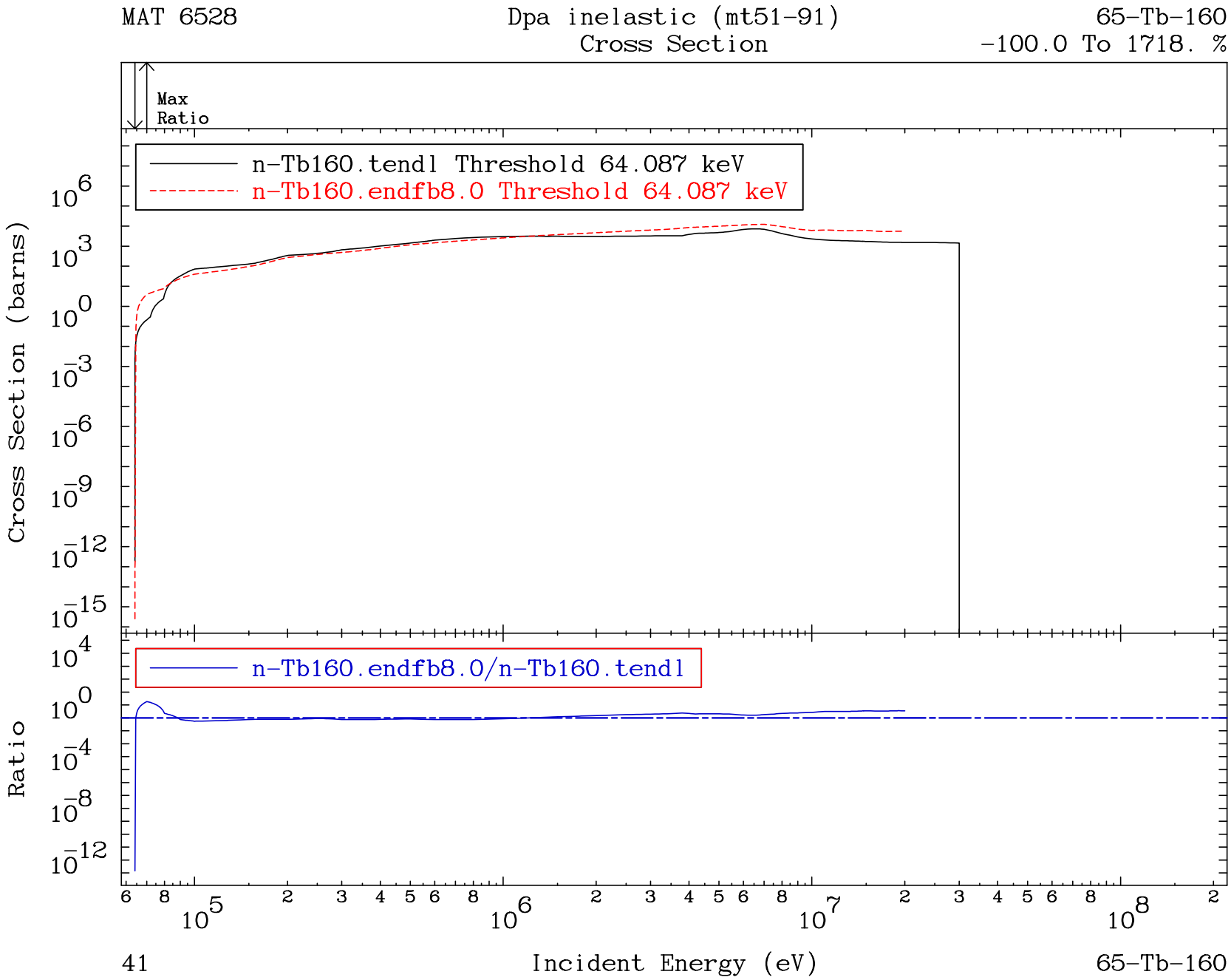

MAT 6528
Kerma capture (mt102)
Cross Section
65-Tb-160
-91.65 To 324.4 %
Max Ratio
Min Ratio
n-Tb160.tendl
n-Tb160.endfb8.0
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
36
65-Tb-160

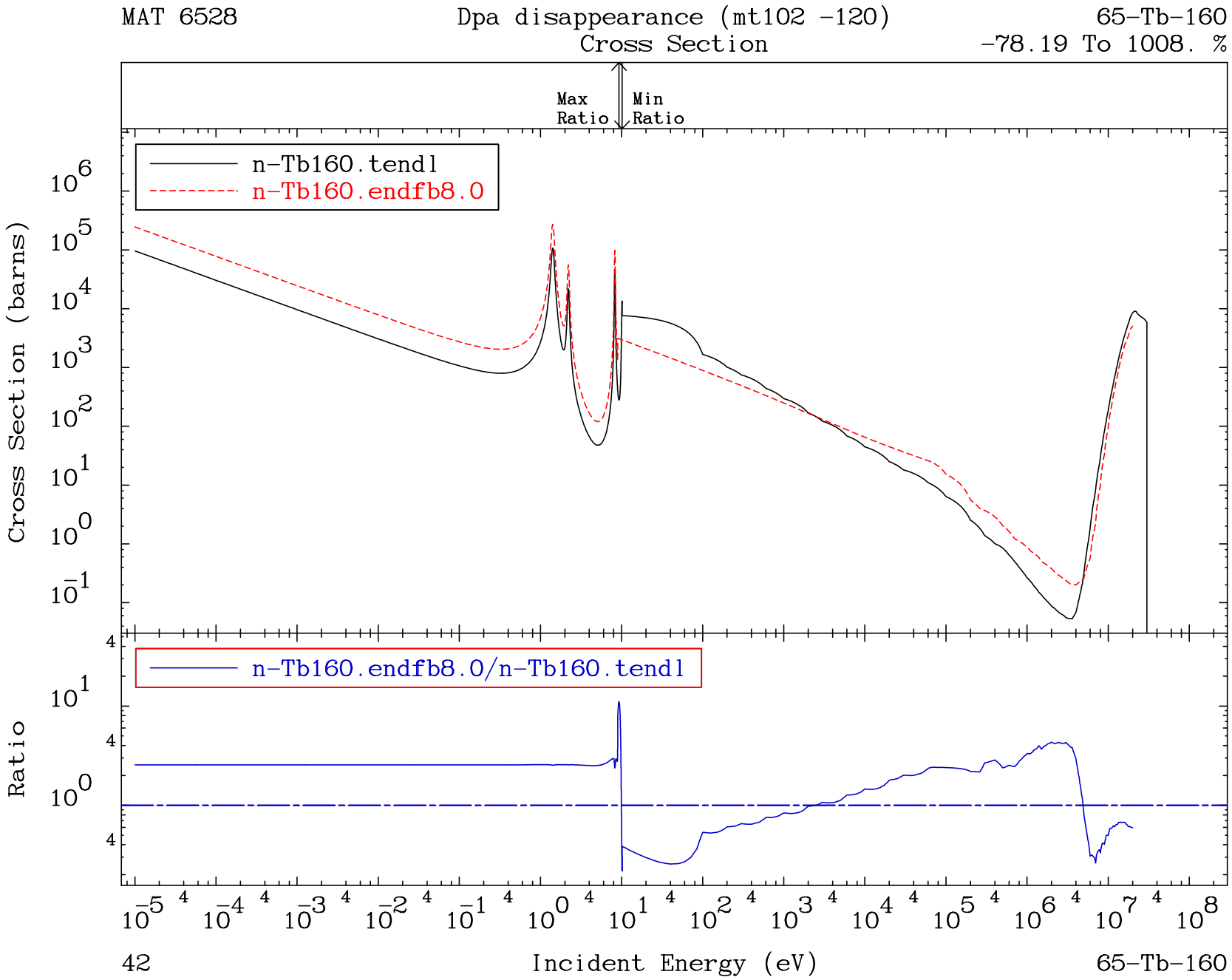

MAT 6528
Total photon (eV-barns)
Cross Section
65-Tb-160
-91.65 To 324.4 %
Max Ratio
Min Ratio
n-Tb160.tendl
n-Tb160.endfb8.0
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
37
65-Tb-160


MAT 6528
Total kinematic kerma (high limit)
Cross Section
65-Tb-160
-91.65 To 324.4 %
Max Ratio
Min Ratio
n-Tb160.tendl
n-Tb160.endfb8.0
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
38
65-Tb-160


MAT 6528
Dpa total (eV-barns)
Cross Section
65-Tb-160
-82.87 To 1008. %
Max Ratio
Min Ratio
n-Tb160.tendl
n-Tb160.endfb8.0
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
39
Incident Energy (eV)
65-Tb-160


MAT 6528
Dpa elastic (mt2)
Cross Section
65-Tb-160
-90.90 To -5.901%
Min Ratio
Max Ratio
n-Tb160.tendl Threshold 1.2500 keV
n-Tb160.endfb8.0 Threshold 1.2500 keV
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
40
65-Tb-160


MAT 6528
Dpa inelastic (mt51-91)
Cross Section
65-Tb-160
-100.0 To 1718. %
Max
Ratio
n-Tb160.tendl Threshold 64.087 keV
n-Tb160.endfb8.0 Threshold 64.087 keV
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
41
65-Tb-160


MAT 6528
Dpa disappearance (mt102 -120)
Cross Section
65-Tb-160
-78.19 To 1008. %
Max Ratio
Min Ratio
n-Tb160.tendl
n-Tb160.endfb8.0
Cross Section (barns)
n-Tb160.endfb8.0/n-Tb160.tendl
Ratio
Incident Energy (eV)
42
65-Tb-160