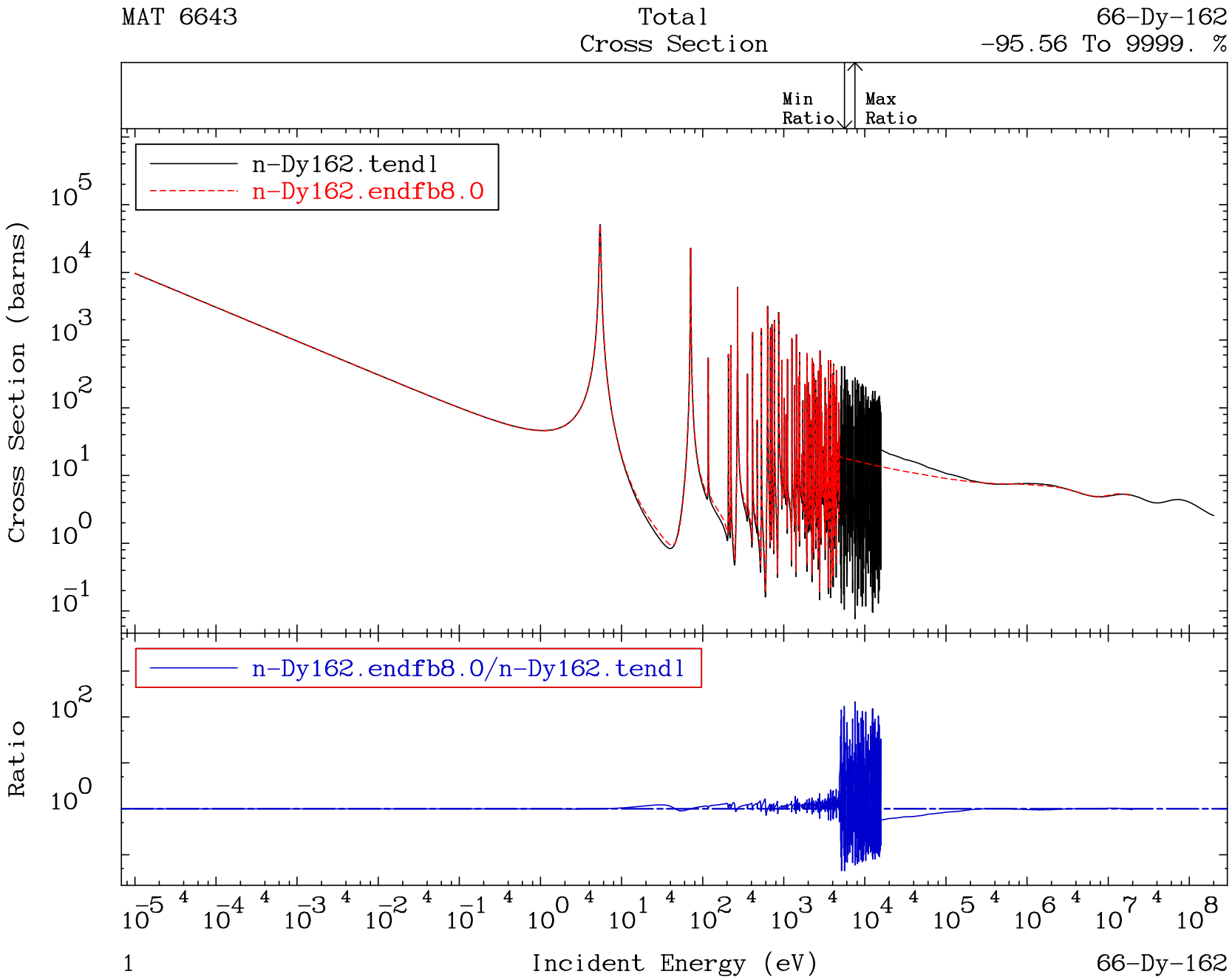
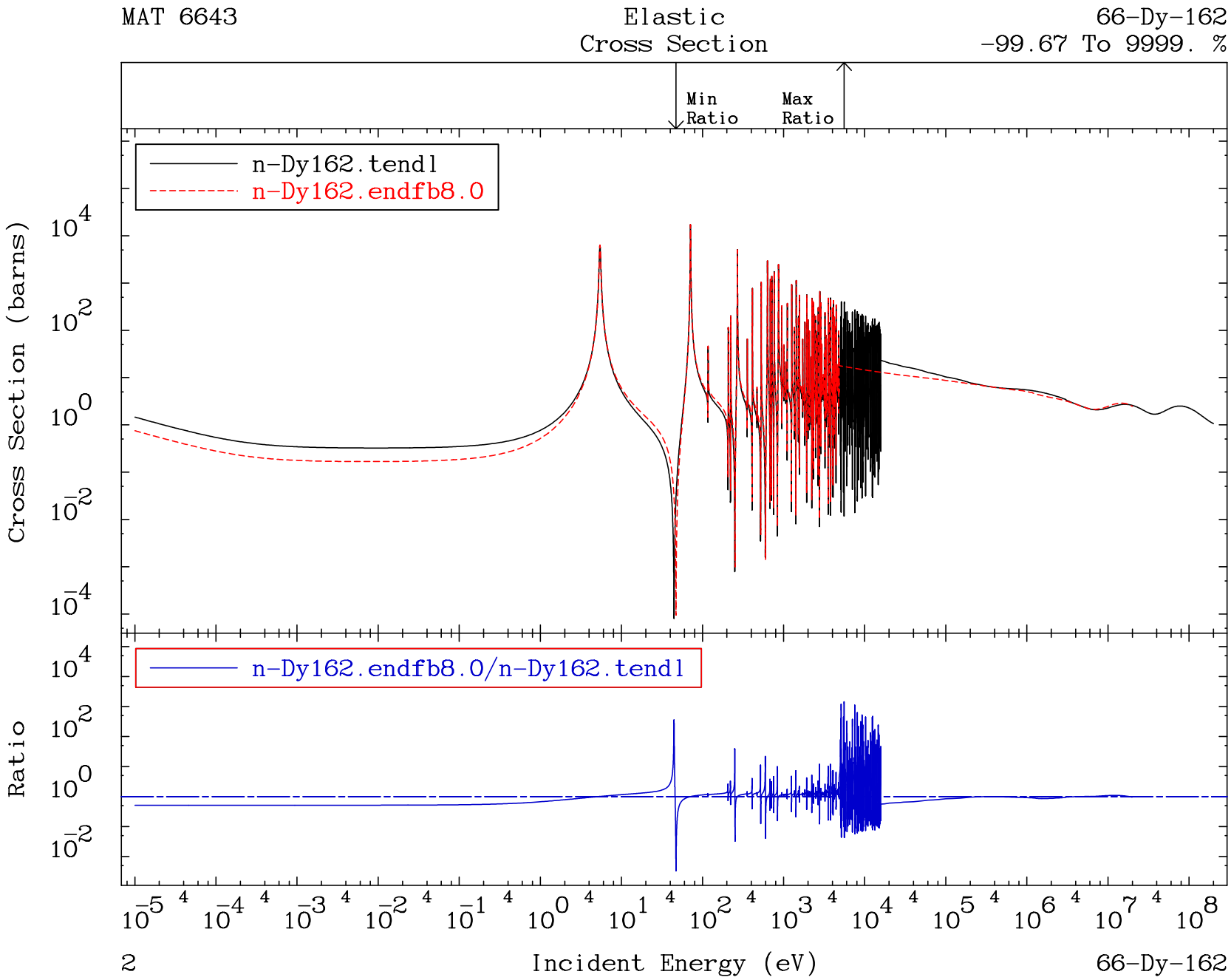
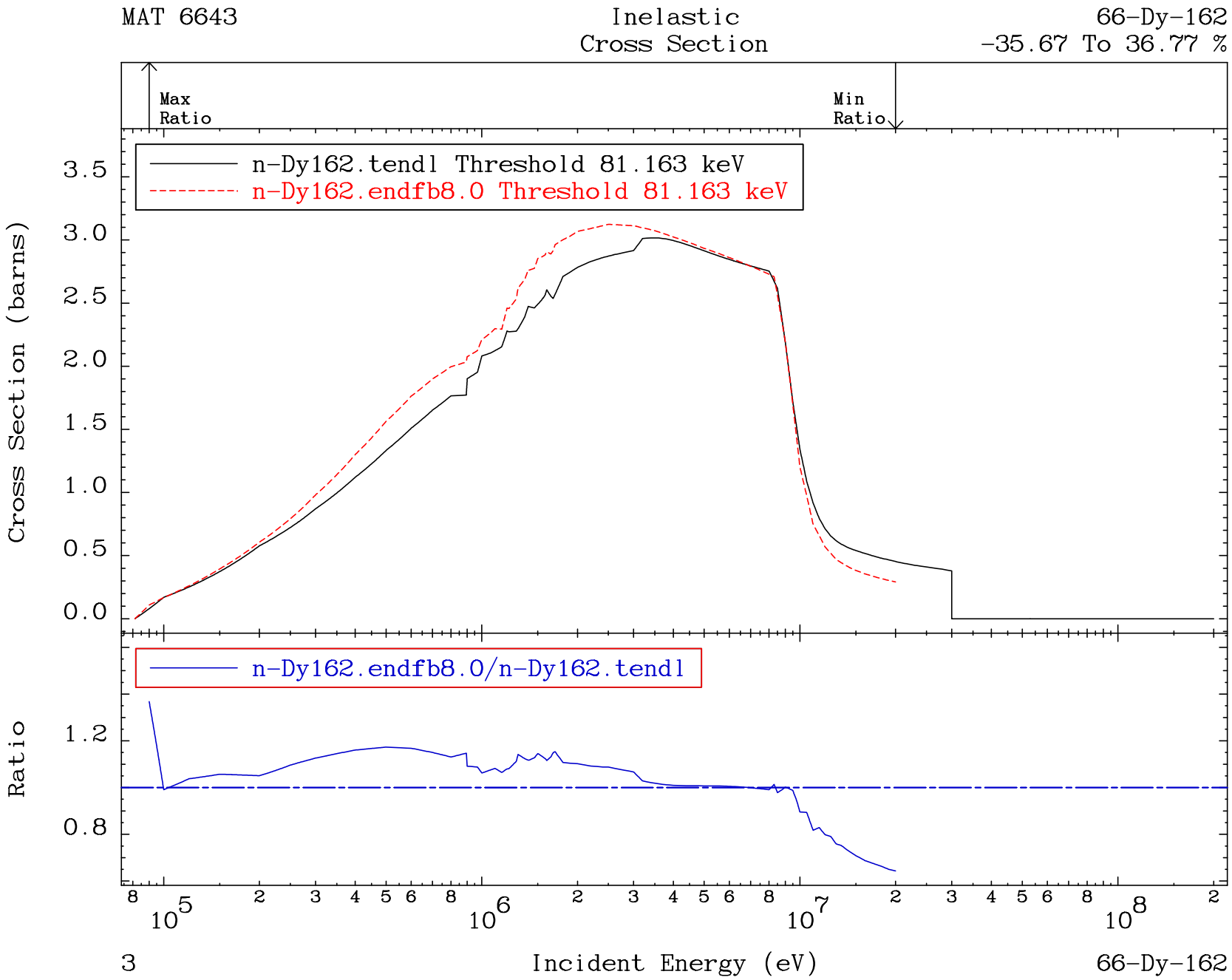
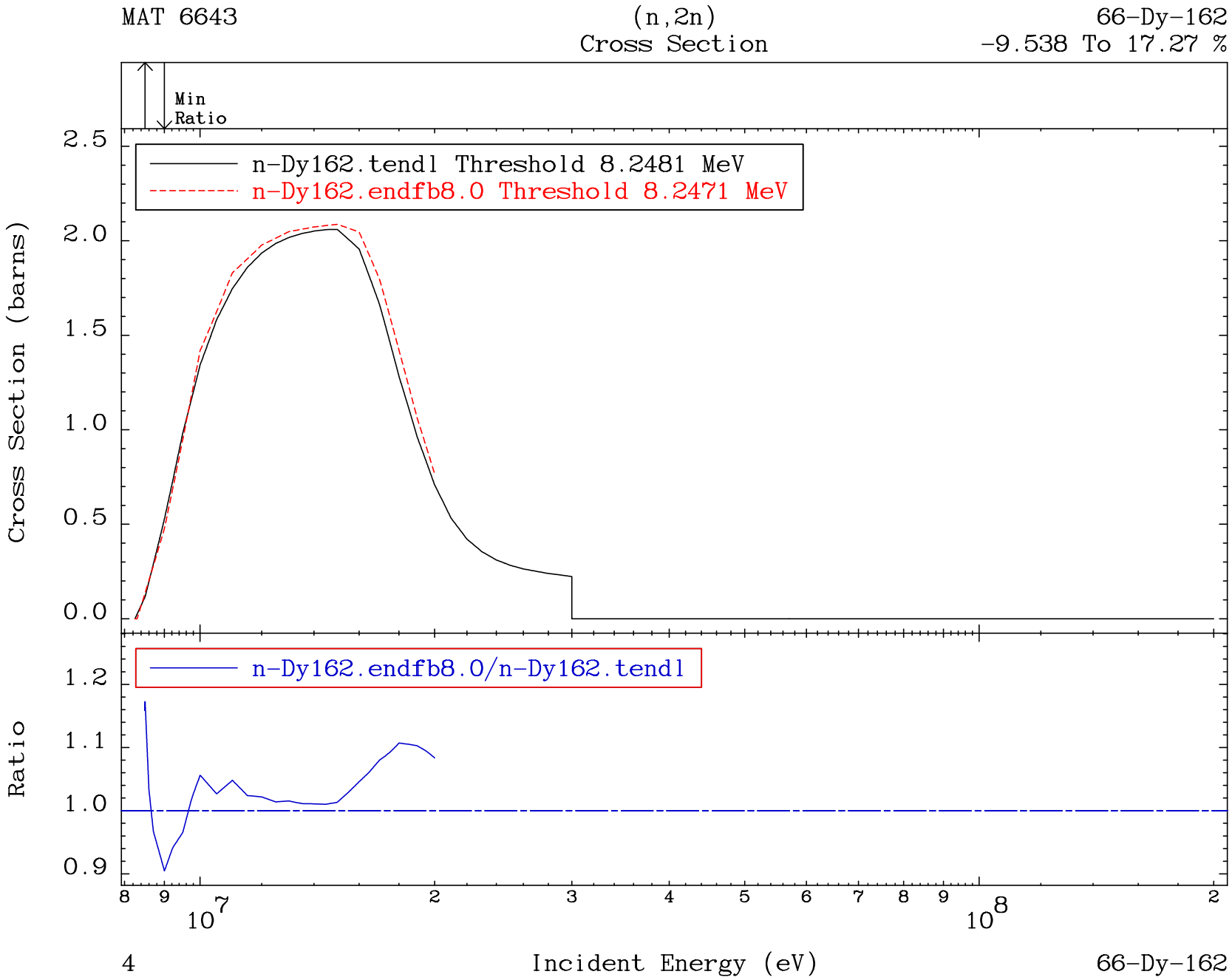
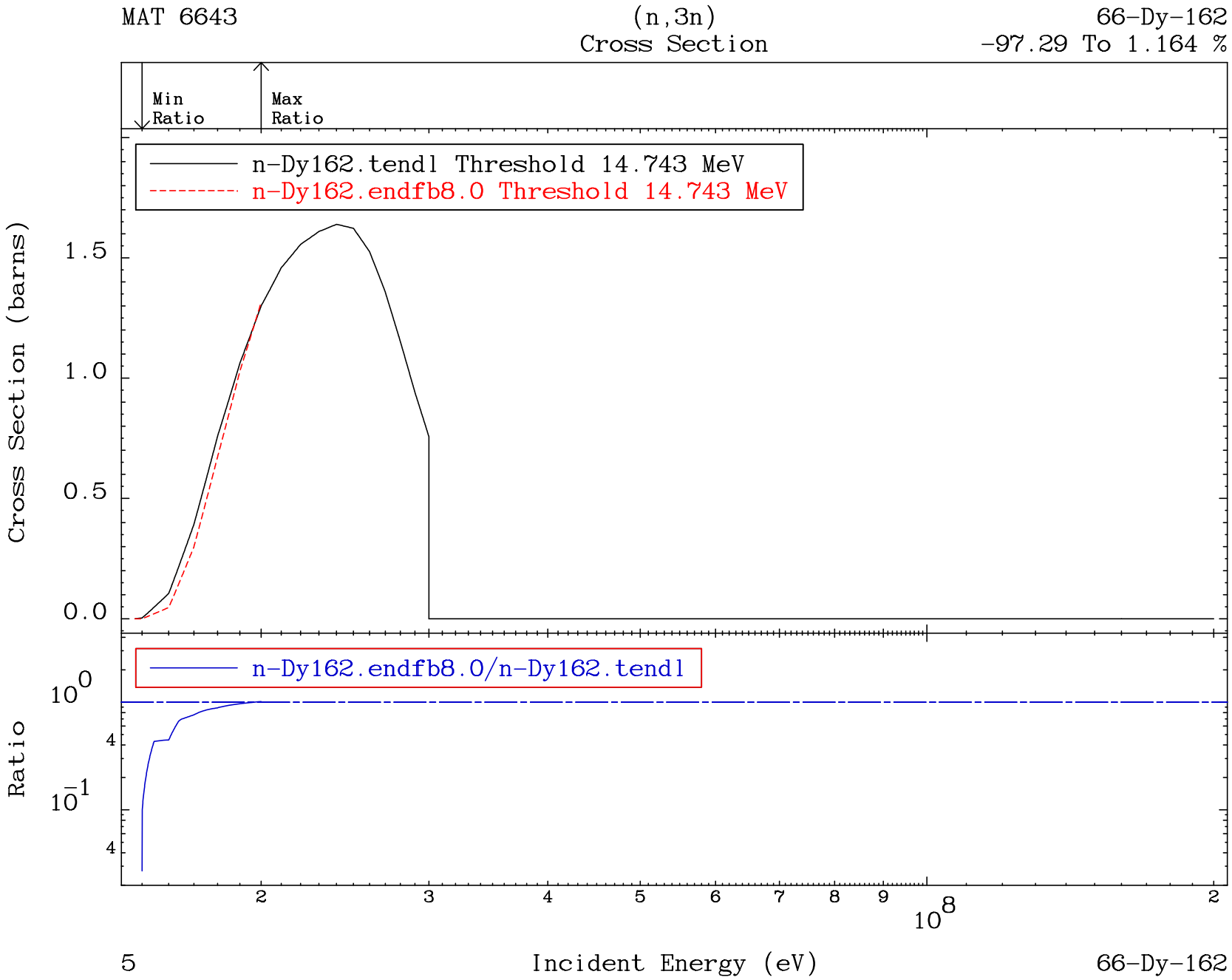
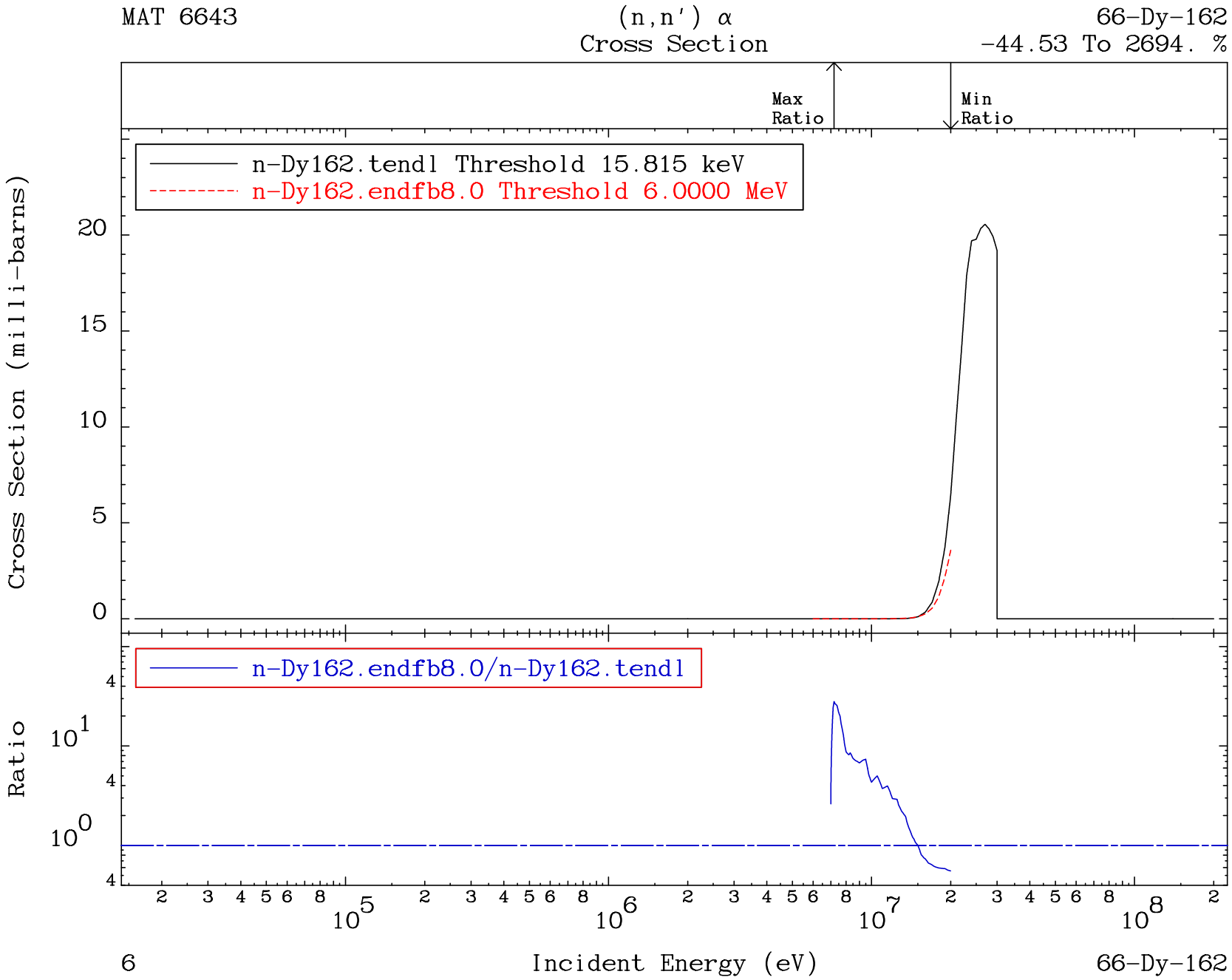

MAT 6643
Total
Cross Section
66-Dy-162
-95.56 To 9999. %
Min
Ratio
Max
Ratio
n-Dy162.tendl
n-Dy162.endfb8.0
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
1
66-Dy-162

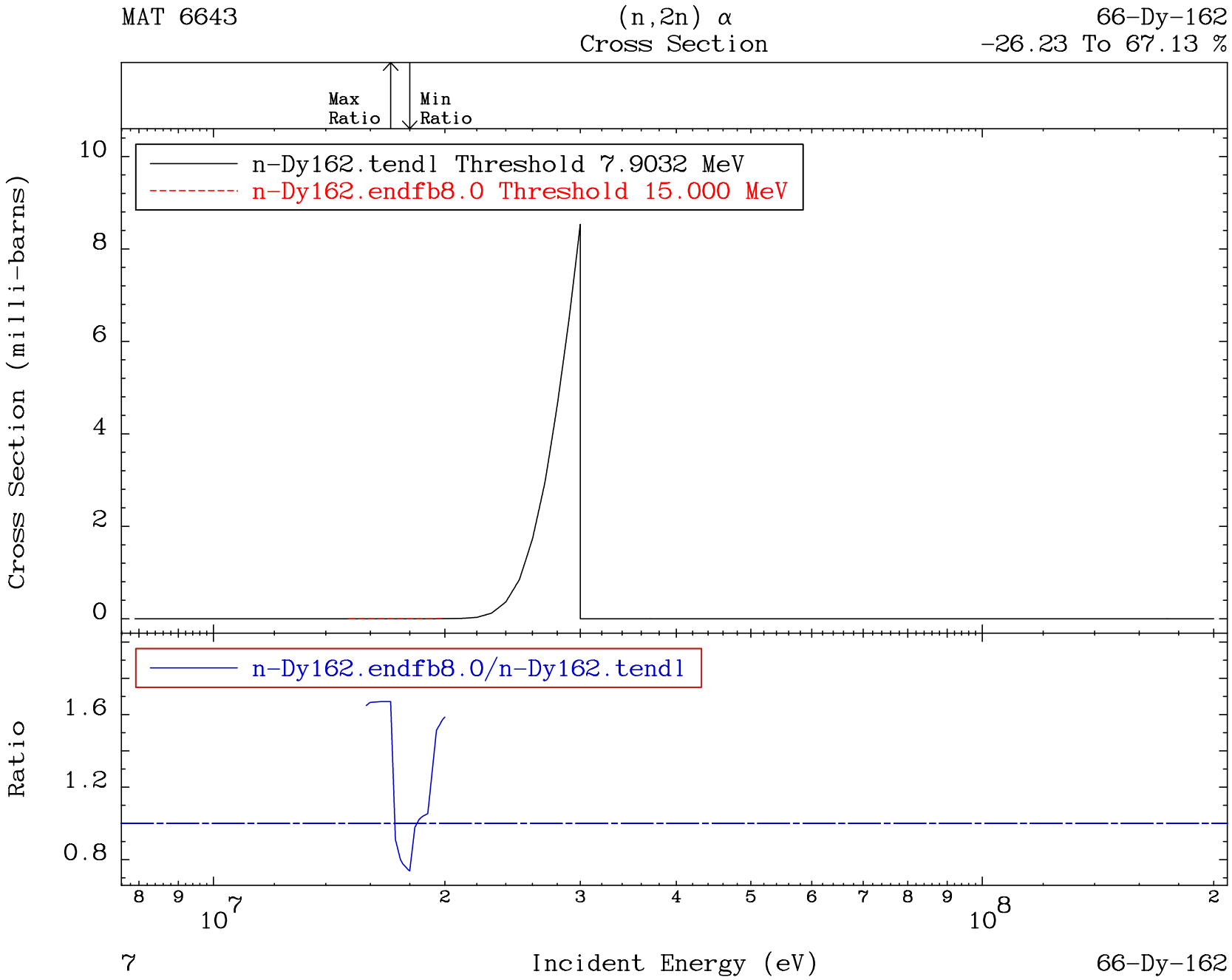

MAT 6643
Elastic
Cross Section
66-Dy-162
-99.67 To 9999. %
Min
Ratio
Max
Ratio
n-Dy162.tendl
n-Dy162.endfb8.0
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
2
66-Dy-162

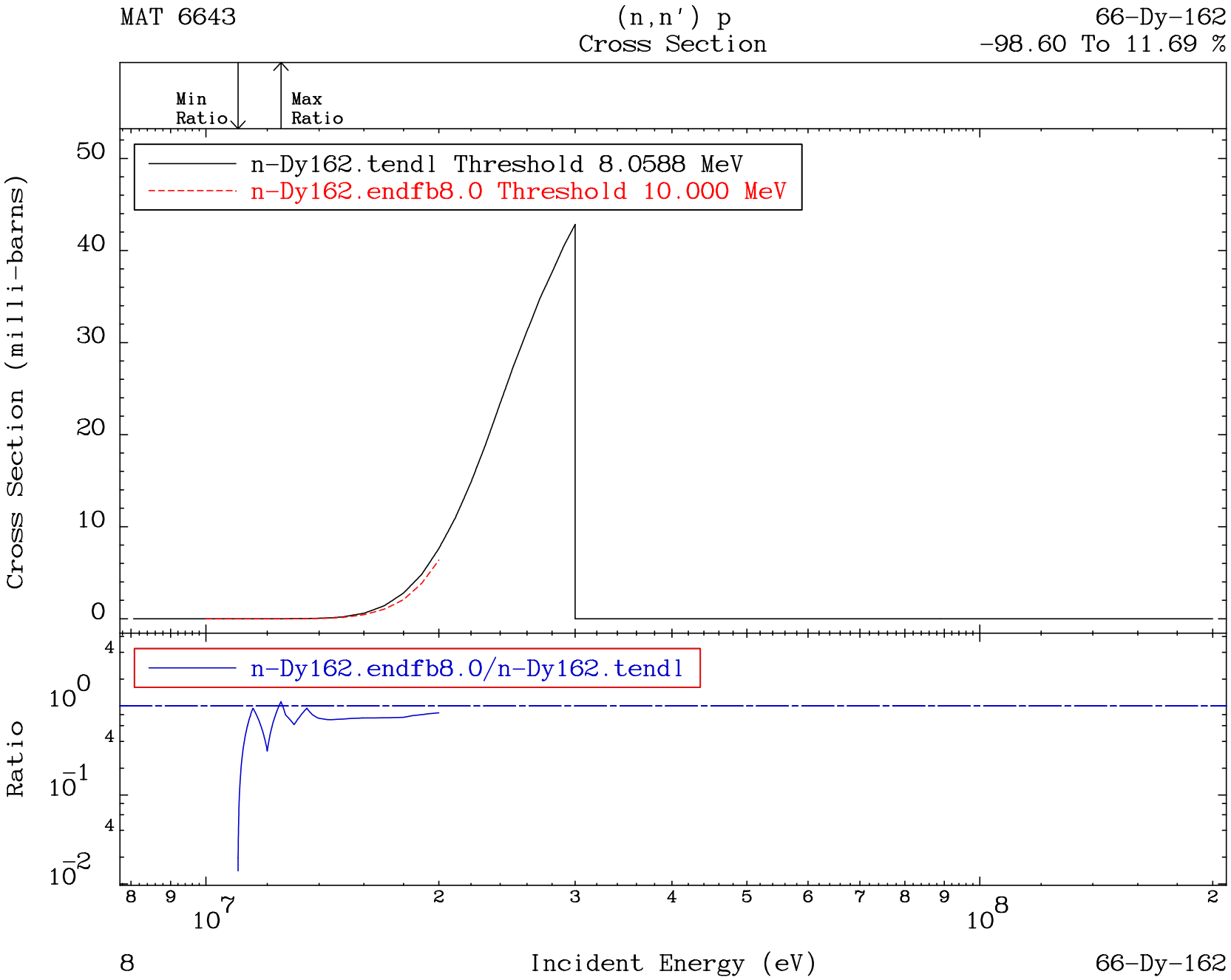

MAT 6643
Inelastic
Cross Section
66-Dy-162
-35.67 To 36.77 %
Max
Ratio
Min
Ratio
n-Dy162.tendl Threshold 81.163 keV
n-Dy162.endfb8.0 Threshold 81.163 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
1.2
0.8
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
66-Dy-162

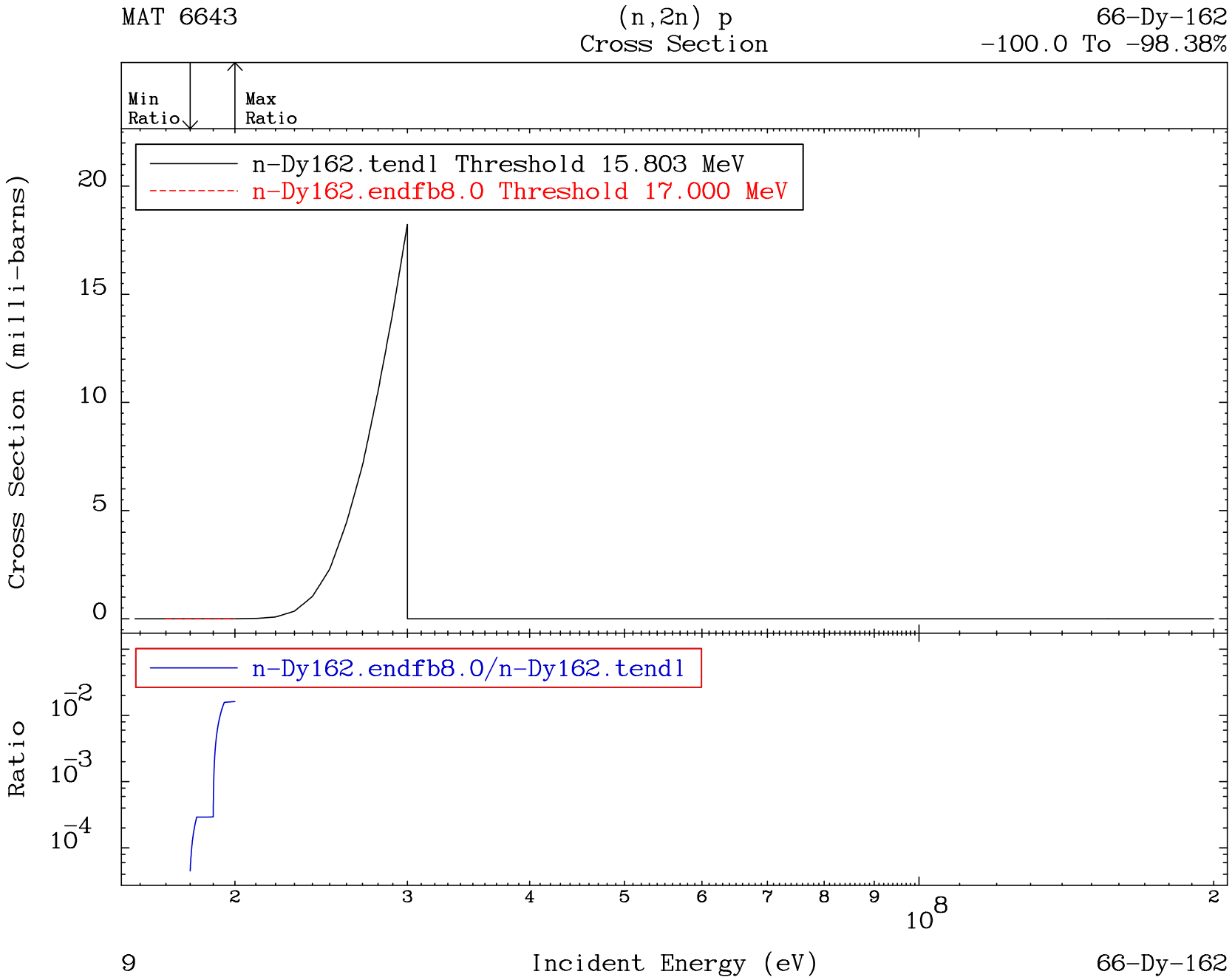

MAT 6643
(n,2n)
Cross Section
66-Dy-162
-9.538 To 17.27 %
Min
Ratio
n-Dy162.tendl Threshold 8.2481 MeV
n-Dy162.endfb8.0 Threshold 8.2471 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
1.2
1.1
1.0
0.9
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
66-Dy-162

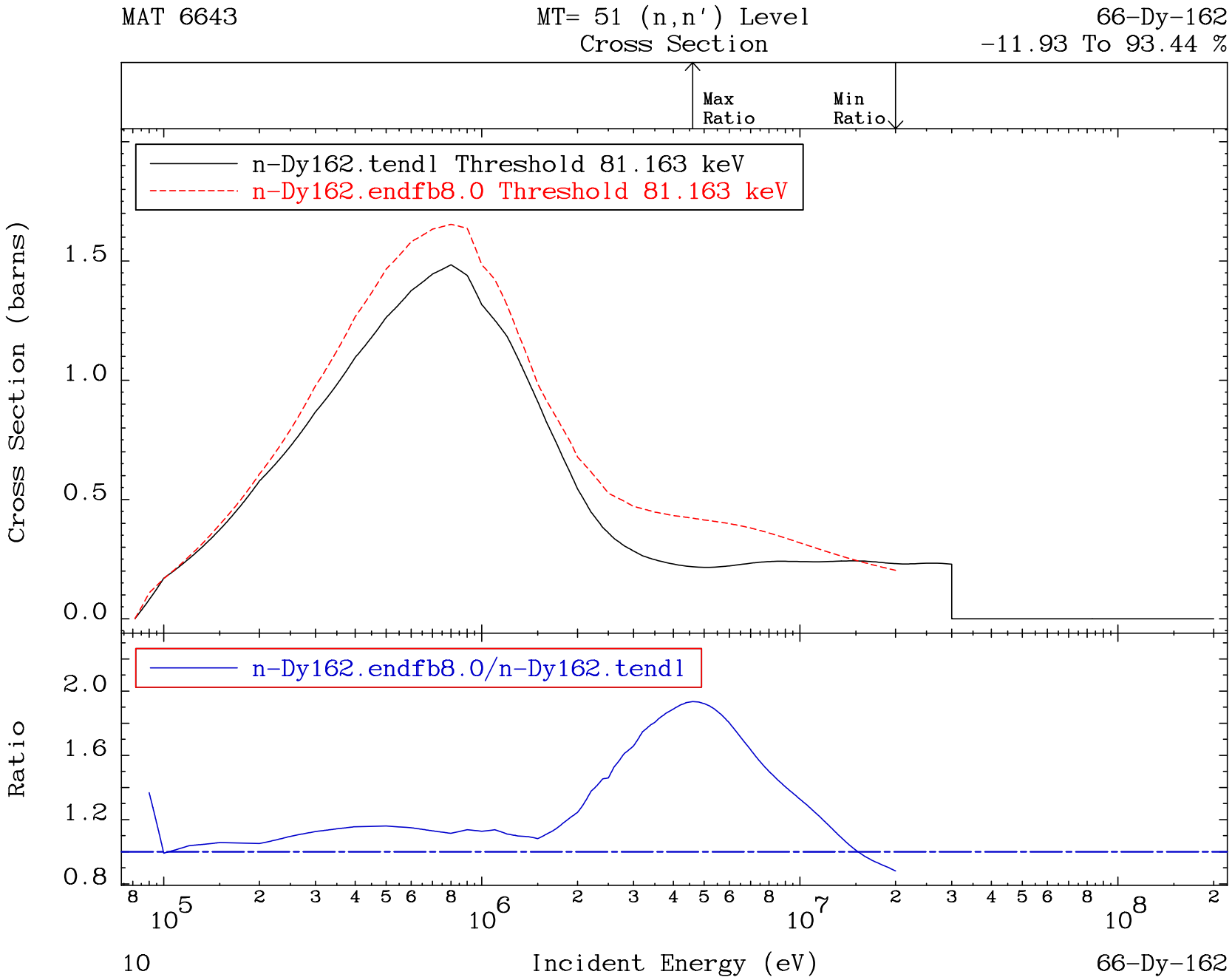

MAT 6643
(n,3n)
Cross Section
66-Dy-162
-97.29 To 1.164 %
Min Ratio
Max Ratio
n-Dy162.tendl Threshold 14.743 MeV
n-Dy162.endfb8.0 Threshold 14.743 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-1
4
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
66-Dy-162

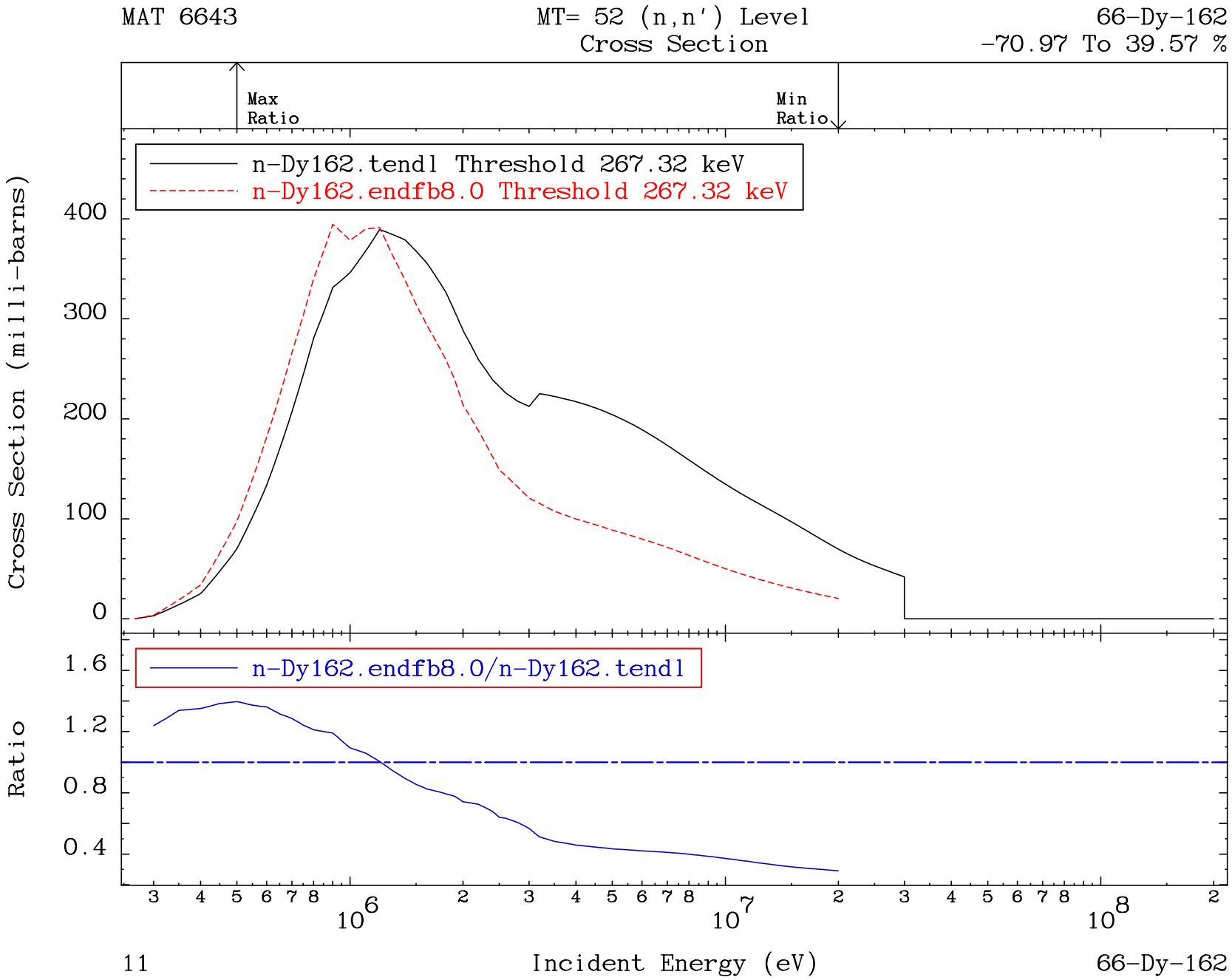

MAT 6643
(n,n') α
Cross Section
66-Dy-162
-44.53 To 2694. %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 15.815 keV
n-Dy162.endfb8.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^1
10^0
4
2 3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
6
Incident Energy (eV)
66-Dy-162

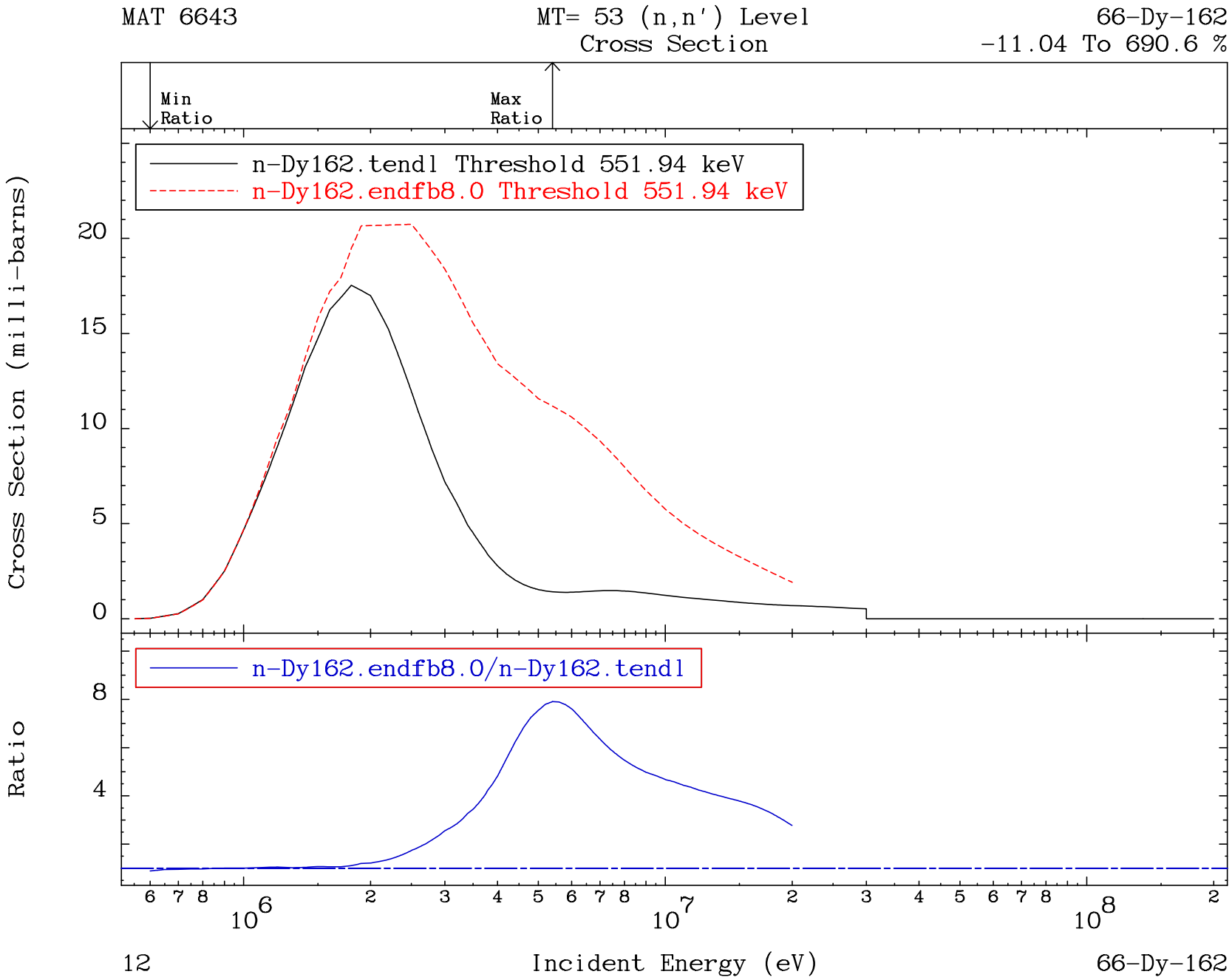

MAT 6643
(n,2n) α
Cross Section
66-Dy-162
-26.23 To 67.13 %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 7.9032 MeV
n-Dy162.endfb8.0 Threshold 15.000 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
1.6
1.2
0.8
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
66-Dy-162

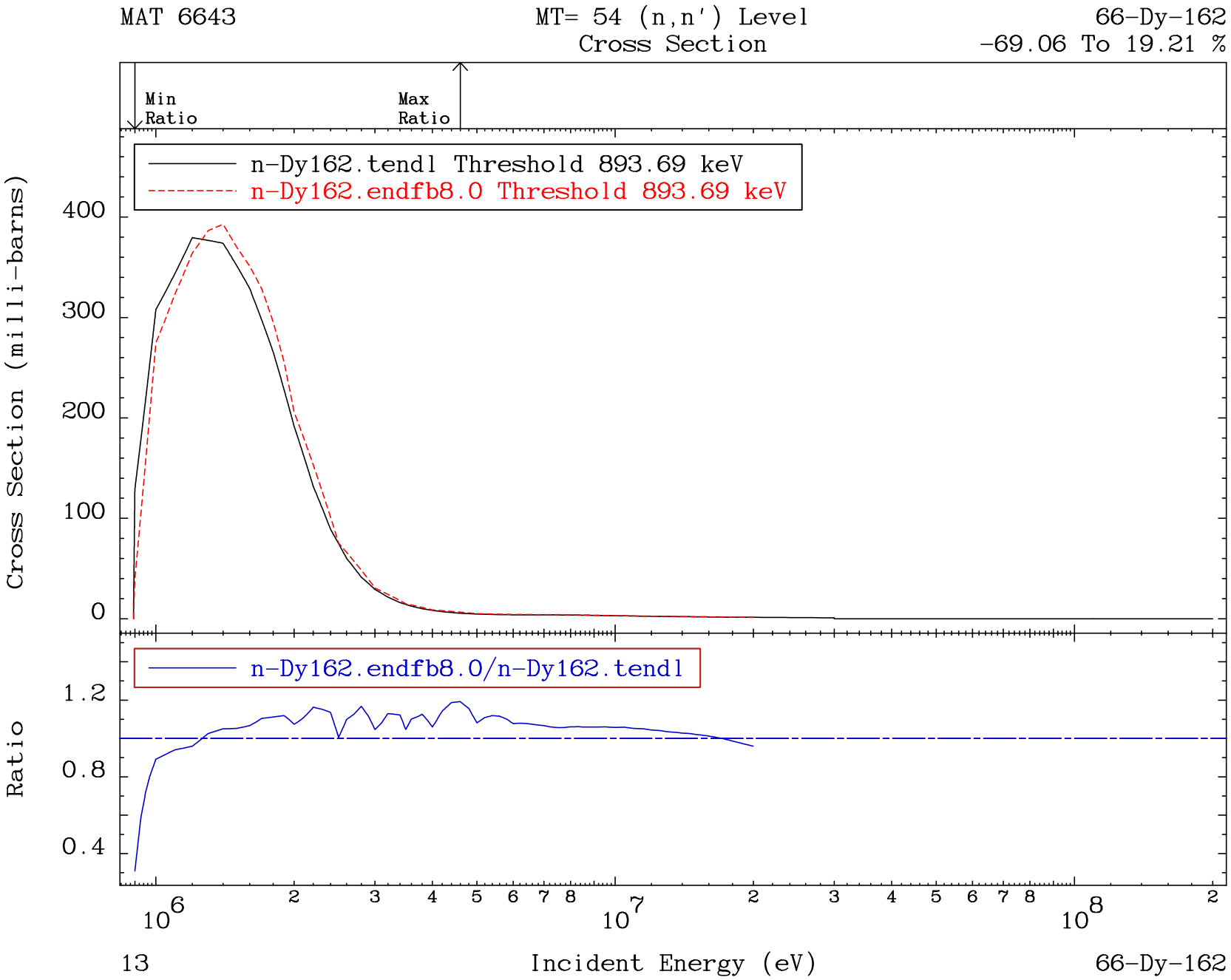

MAT 6643
(n,n') p
Cross Section
66-Dy-162
-98.60 To 11.69 %
Min Ratio
Max Ratio
n-Dy162.tendl Threshold 8.0588 MeV
n-Dy162.endfb8.0 Threshold 10.000 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^{0}
10^{-1}
10^{-2}
8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
8
Incident Energy (eV)
66-Dy-162

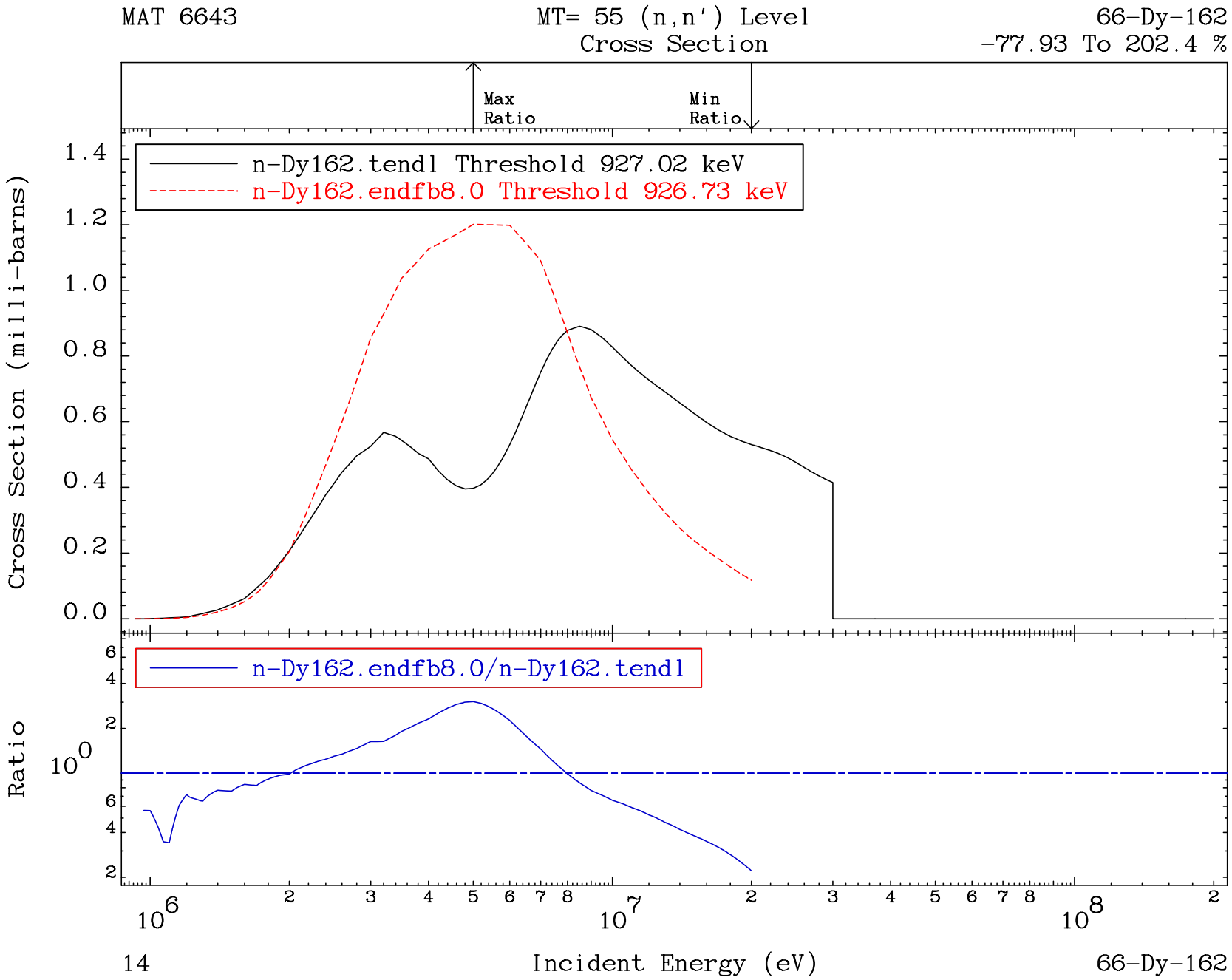

MAT 6643
(n,2n) p
Cross Section
66-Dy-162
-100.0 To -98.38%
Min Ratio
Max Ratio
n-Dy162.tendl Threshold 15.803 MeV
n-Dy162.endfb8.0 Threshold 17.000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10-2
10-3
10-4
2
3
4
5
6
7
8
9
10 8
2
9
Incident Energy (eV)
66-Dy-162

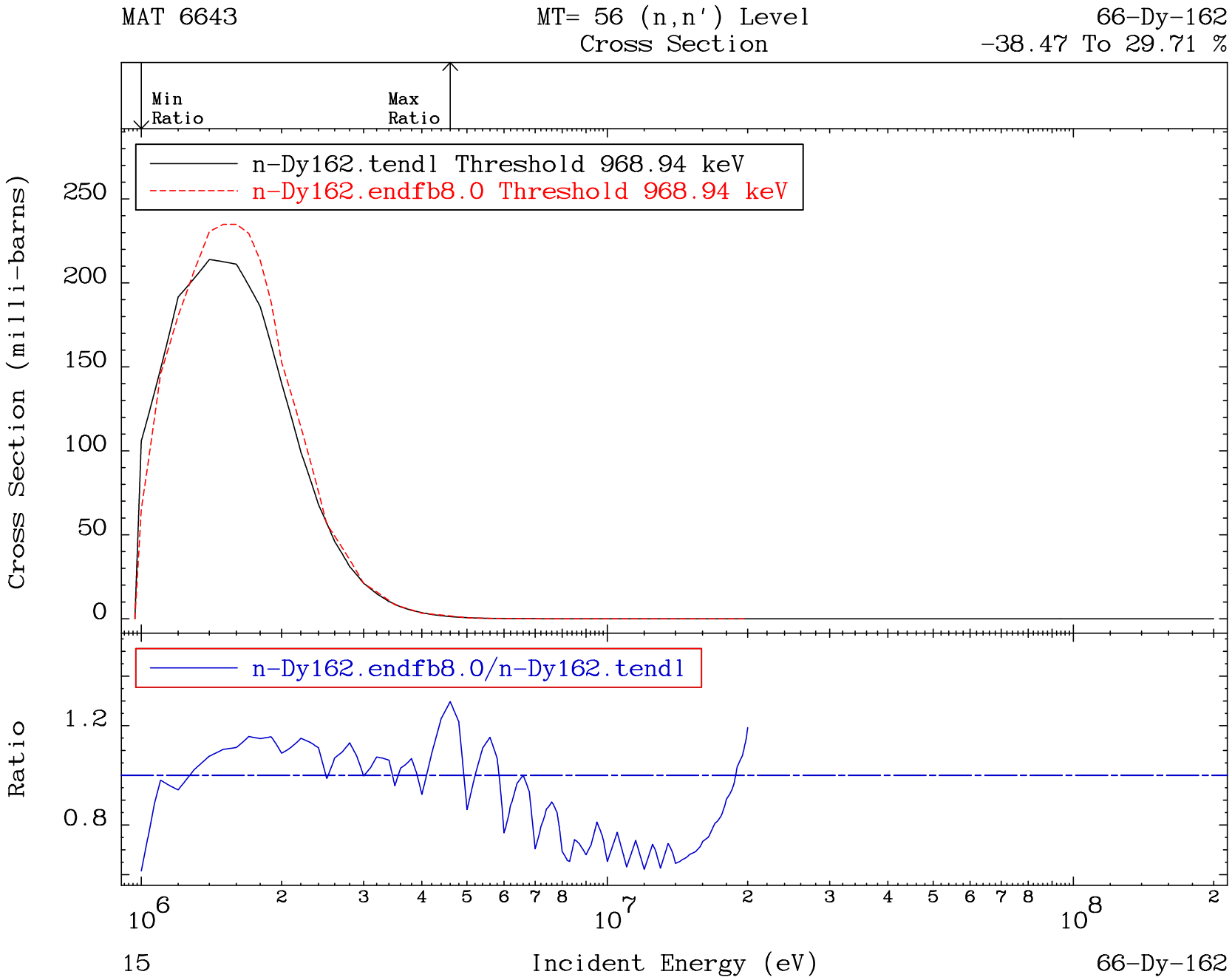

MAT 6643
MT= 51 (n,n') Level
Cross Section
66-Dy-162
-11.93 To 93.44 %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 81.163 keV
n-Dy162.endfb8.0 Threshold 81.163 keV
Cross Section (barns)
1.5
1.0
0.5
0.0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
2.0
1.6
1.2
0.8
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
10
Incident Energy (eV)
66-Dy-162

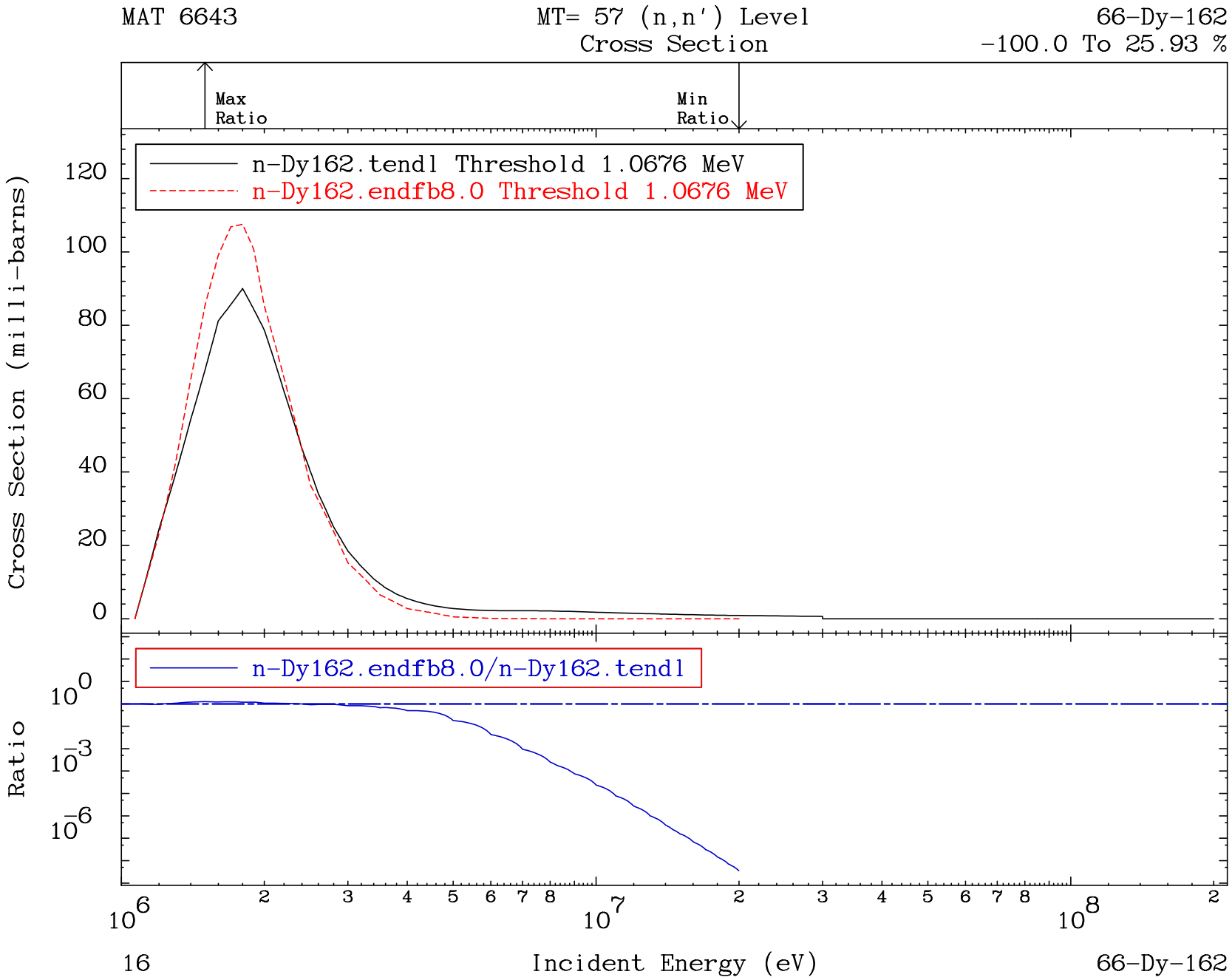

MAT 6643
MT= 52 (n,n') Level
Cross Section
66-Dy-162
-70.97 To 39.57 %
Max
Ratio
Min
Ratio
n-Dy162.tendl Threshold 267.32 keV
n-Dy162.endfb8.0 Threshold 267.32 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
1.6
1.2
0.8
0.4
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
66-Dy-162

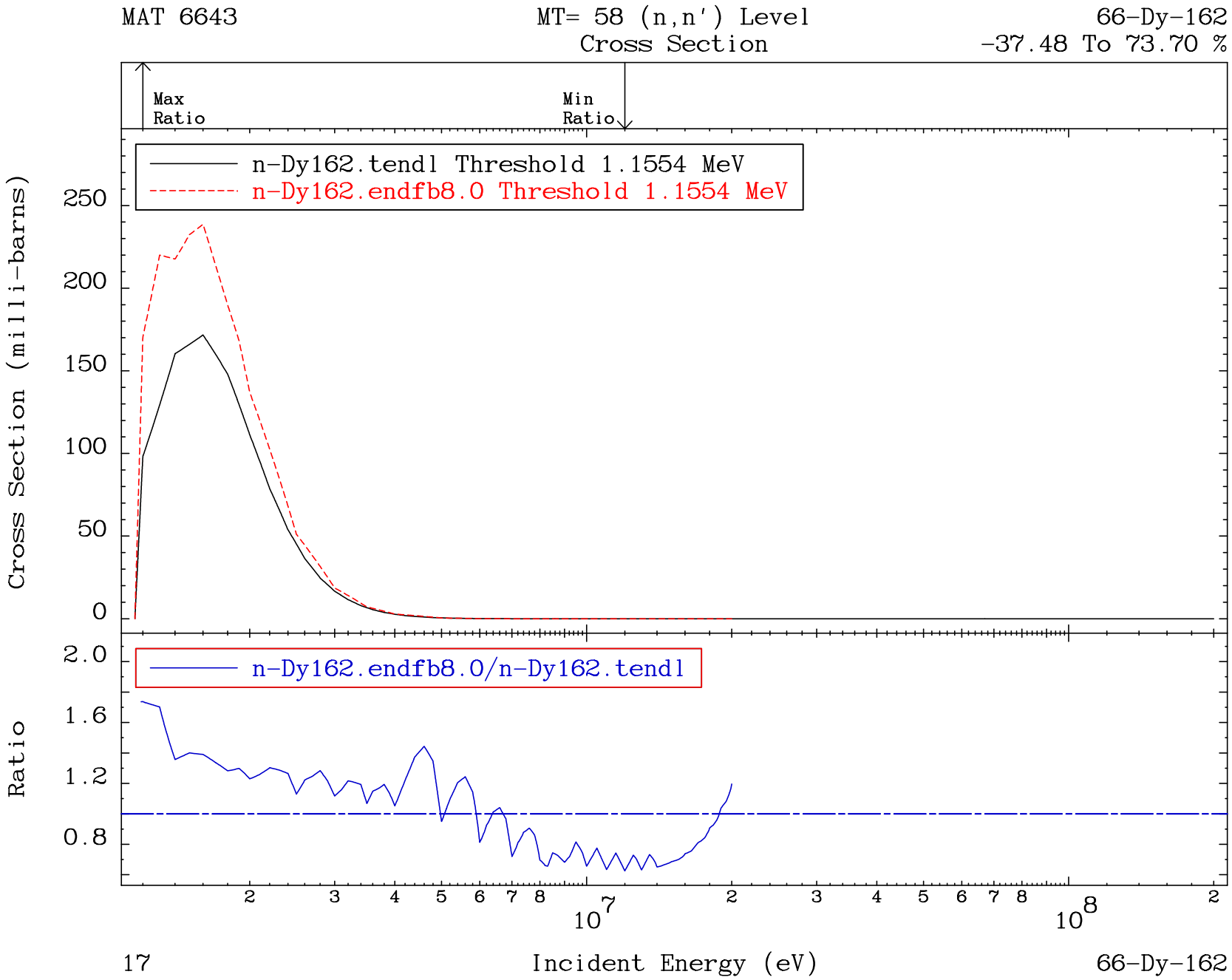

MAT 6643
MT= 53 (n,n') Level
Cross Section
66-Dy-162
-11.04 To 690.6 %
Min Ratio
Max Ratio
n-Dy162.tendl Threshold 551.94 keV
n-Dy162.endfb8.0 Threshold 551.94 keV
Cross Section (milli-barns)
20
15
10
5
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
8
4
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
66-Dy-162

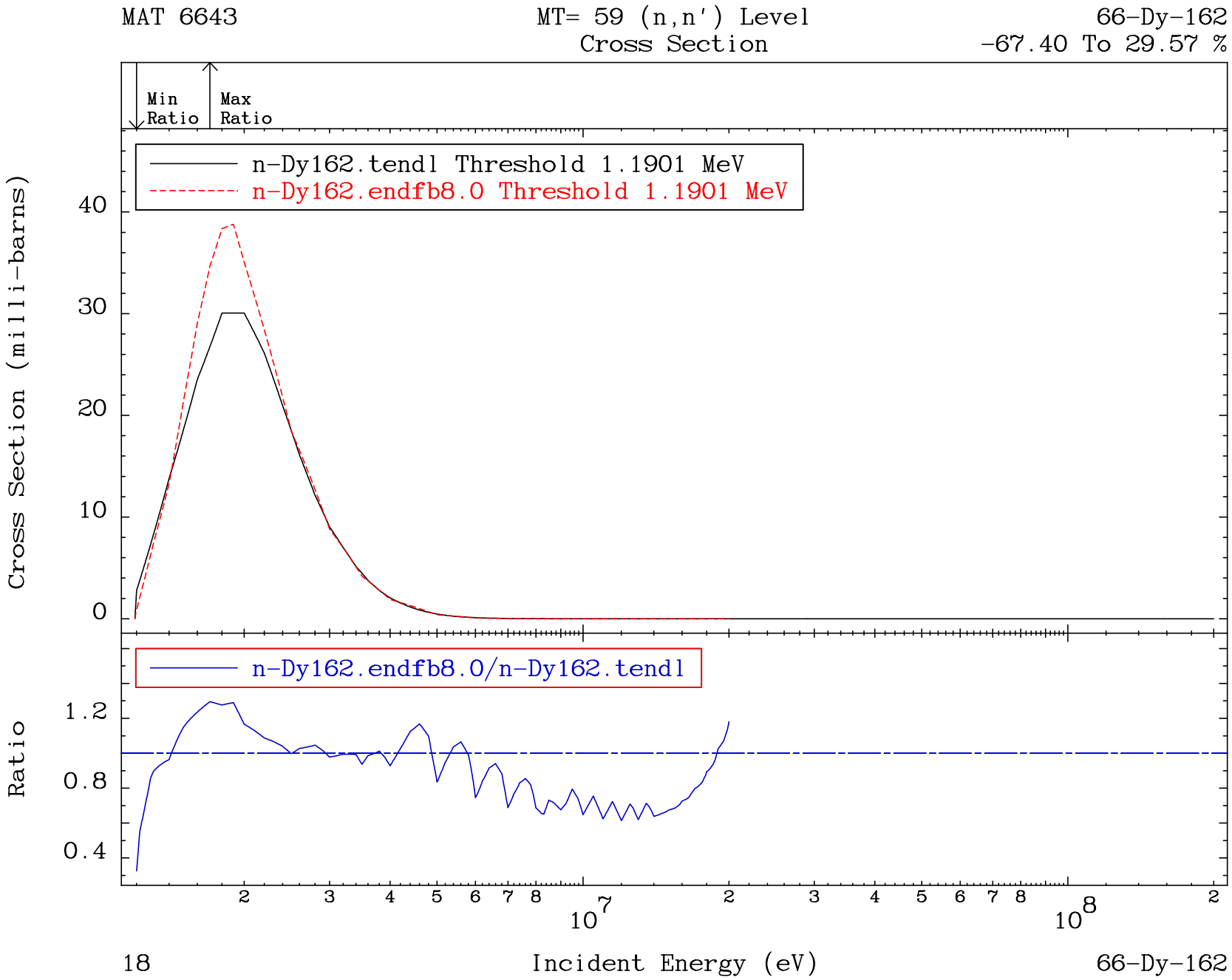

MAT 6643
MT= 54 (n,n') Level
Cross Section
66-Dy-162
-69.06 To 19.21 %
Min Ratio
Max Ratio
n-Dy162.tendl Threshold 893.69 keV
n-Dy162.endfb8.0 Threshold 893.69 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
1.2
0.8
0.4
10^6
10^7
10^8
13
Incident Energy (eV)
66-Dy-162

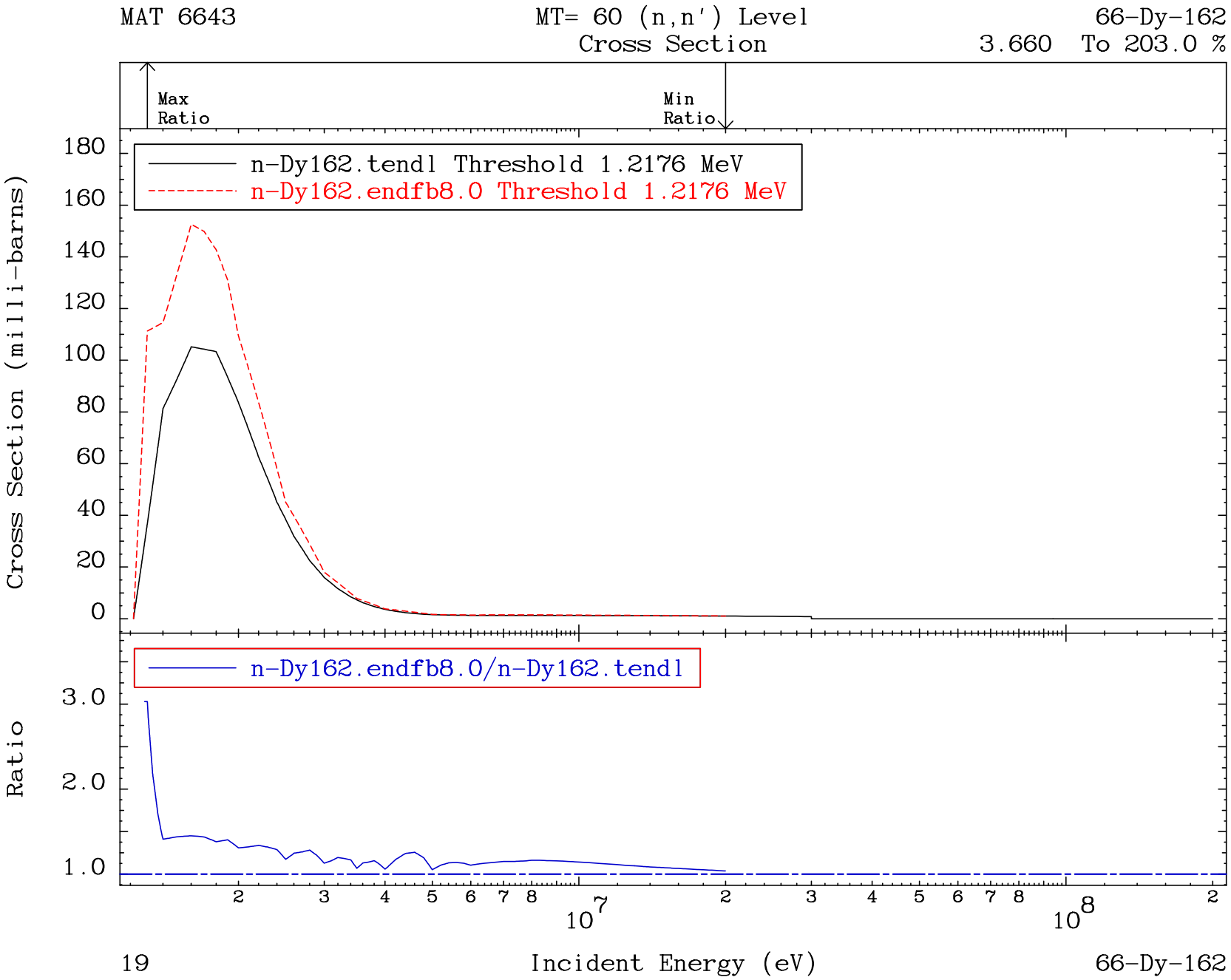

MAT 6643
MT= 55 (n,n') Level
Cross Section
66-Dy-162
-77.93 To 202.4 %
Max
Ratio
Min
Ratio
n-Dy162.tendl Threshold 927.02 keV
n-Dy162.endfb8.0 Threshold 926.73 keV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
6
4
2
10^0
6
4
2
2
3
4
5
6
7
8
10^6
10^7
10^8
14
Incident Energy (eV)
66-Dy-162

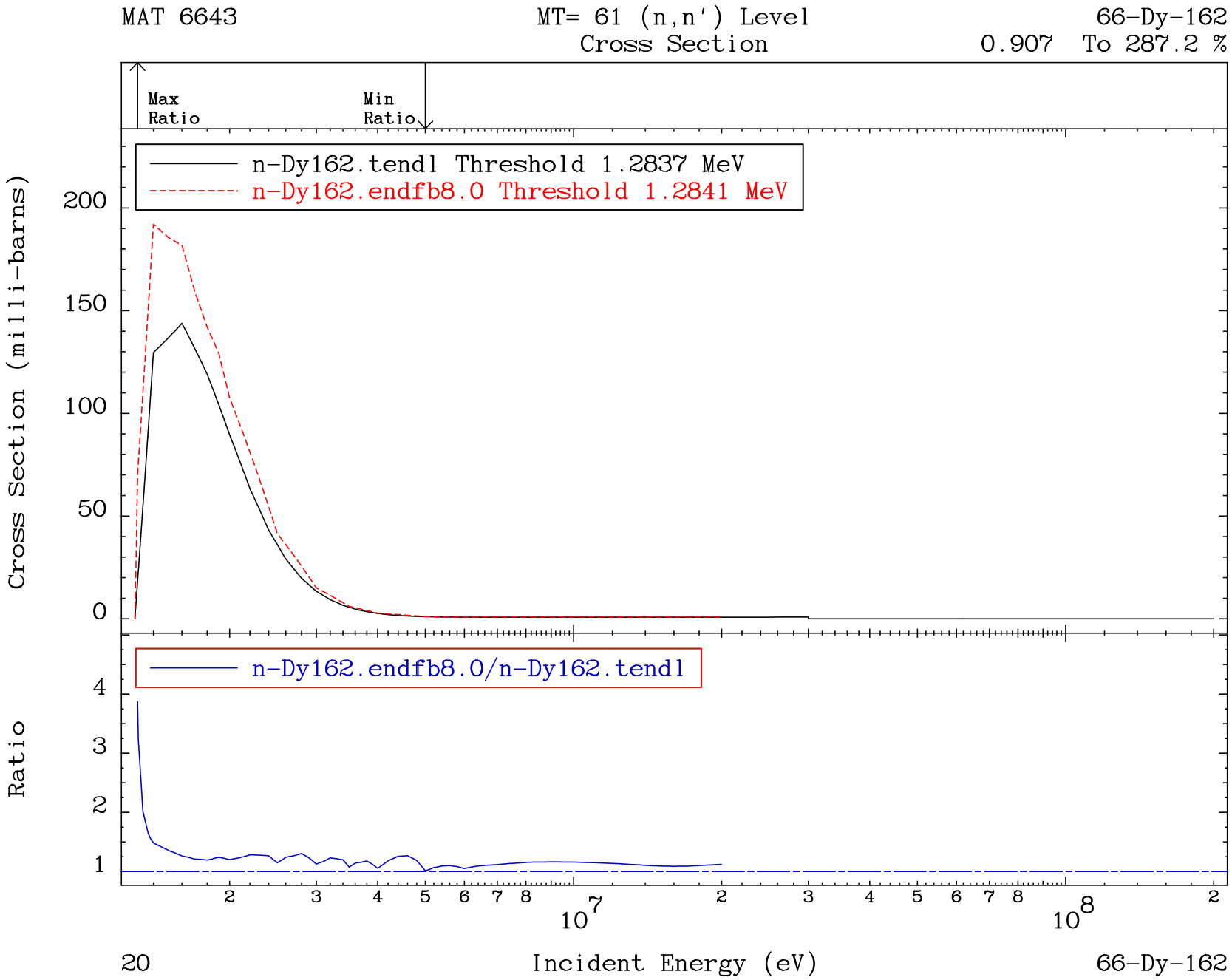

MAT 6643
MT= 56 (n,n') Level
Cross Section
66-Dy-162
-38.47 To 29.71 %
Min Ratio
Max Ratio
n-Dy162.tendl Threshold 968.94 keV
n-Dy162.endfb8.0 Threshold 968.94 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
1.2
0.8
10^6
10^7
10^8
15
Incident Energy (eV)
66-Dy-162

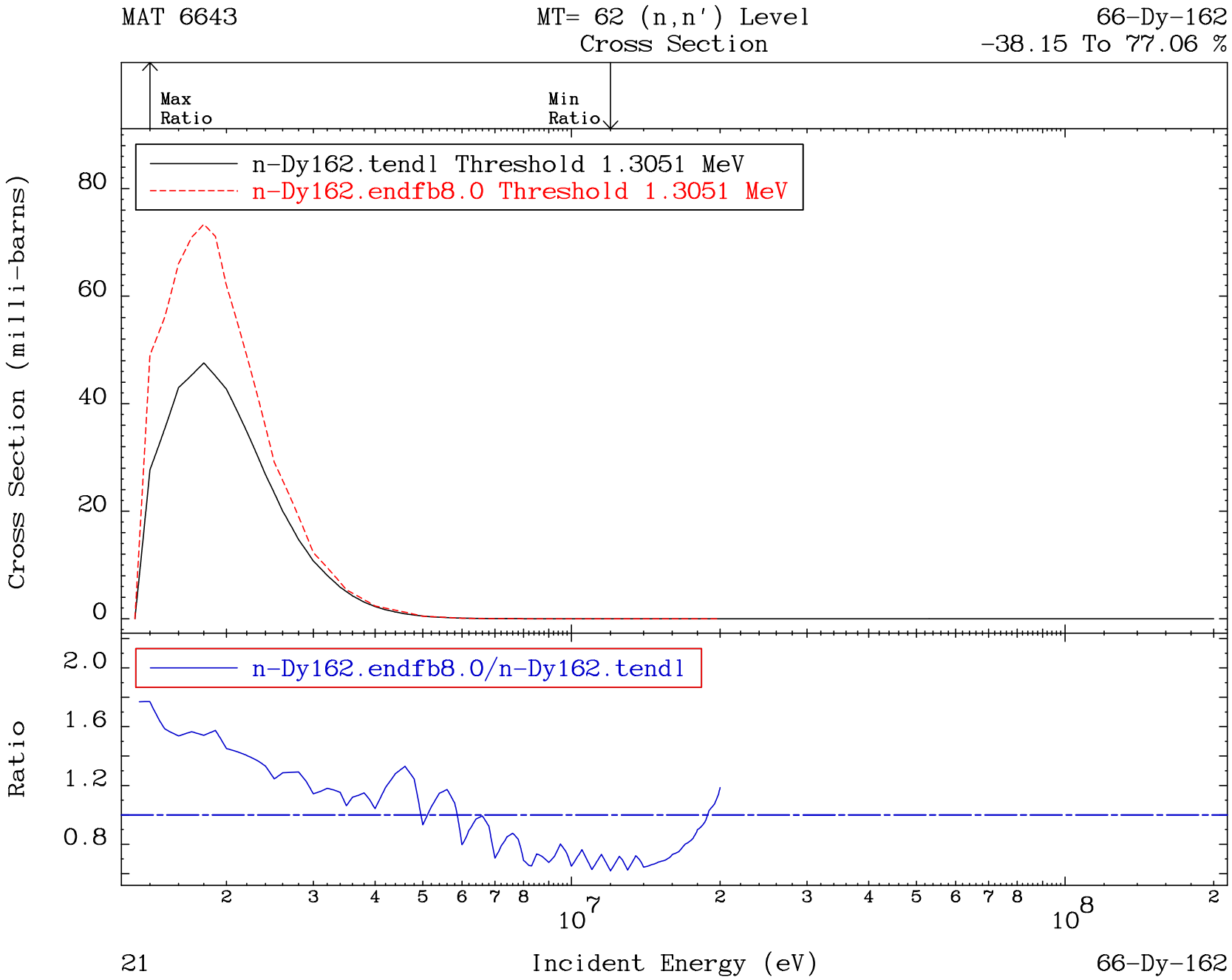

MAT 6643
MT= 57 (n,n') Level
Cross Section
66-Dy-162
-100.0 To 25.93 %
Max
Ratio
Min
Ratio
n-Dy162.tendl Threshold 1.0676 MeV
n-Dy162.endfb8.0 Threshold 1.0676 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-3
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
66-Dy-162

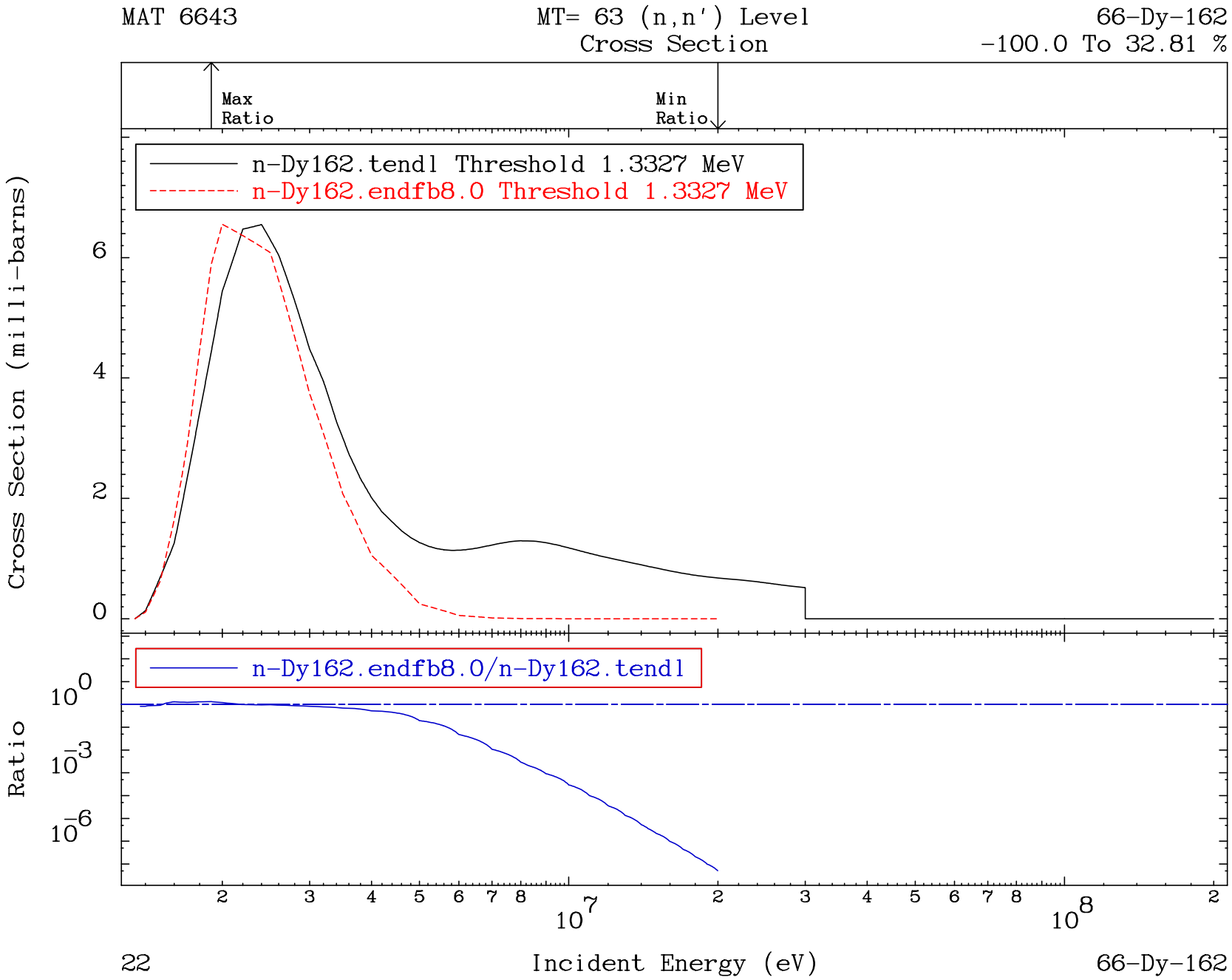

MAT 6643
MT= 58 (n,n') Level
Cross Section
66-Dy-162
-37.48 To 73.70 %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.1554 MeV
n-Dy162.endfb8.0 Threshold 1.1554 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
2.0
1.6
1.2
0.8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
66-Dy-162

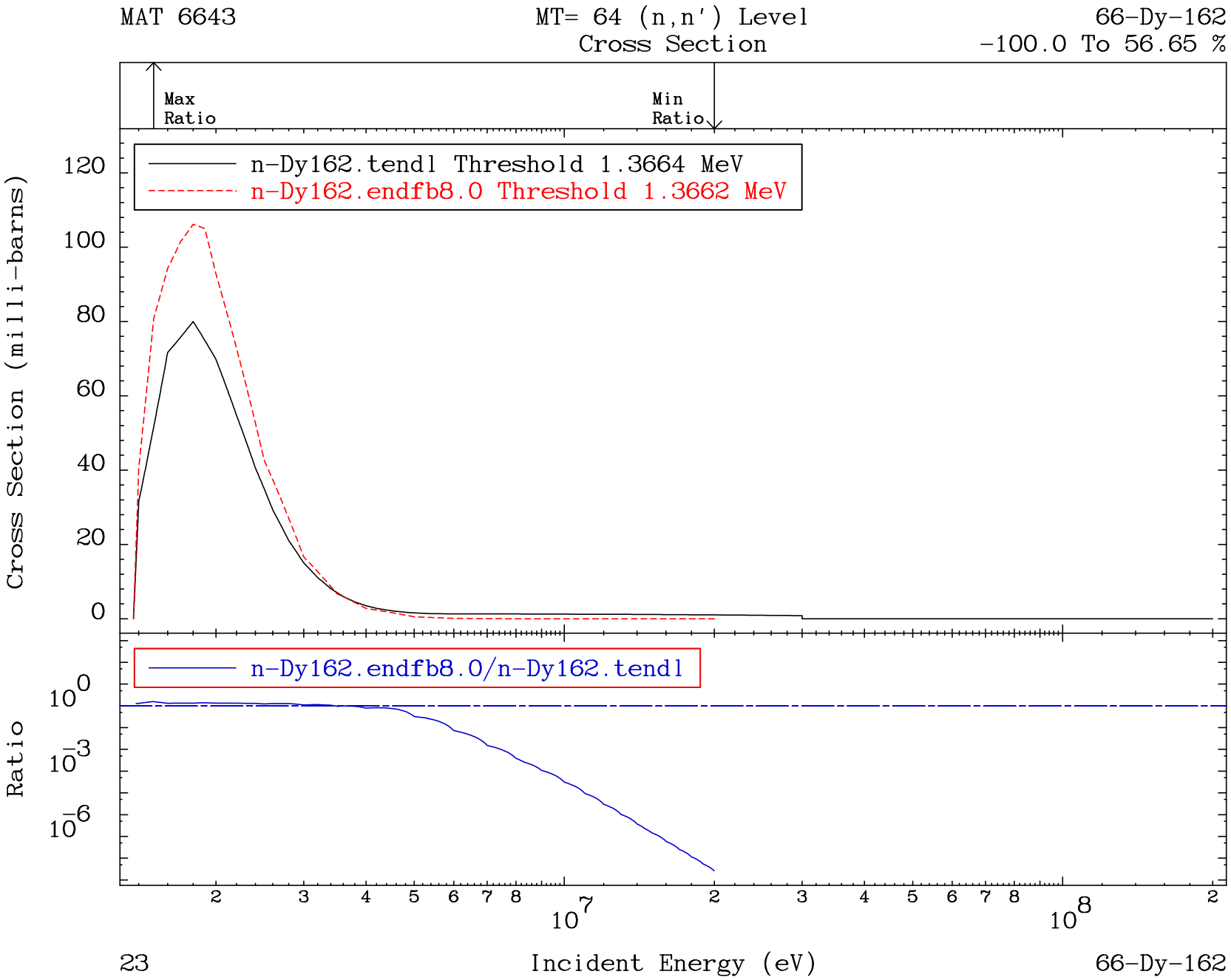

MAT 6643
MT= 59 (n,n') Level
Cross Section
66-Dy-162
-67.40 To 29.57 %
Min Ratio
Max Ratio
n-Dy162.tendl Threshold 1.1901 MeV
n-Dy162.endfb8.0 Threshold 1.1901 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
66-Dy-162

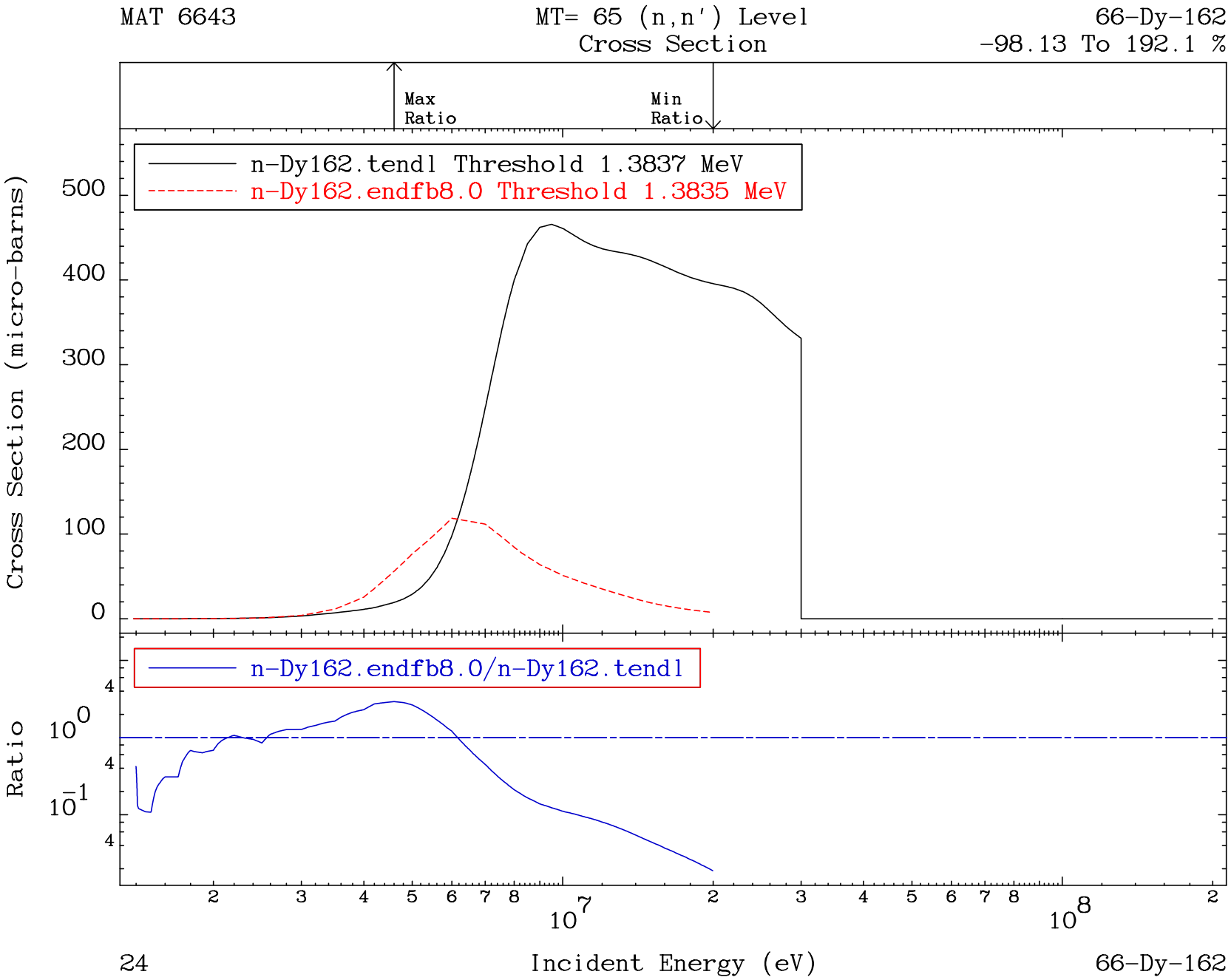

MAT 6643
MT= 60 (n,n') Level
Cross Section
66-Dy-162
3.660 To 203.0 %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.2176 MeV
n-Dy162.endfb8.0 Threshold 1.2176 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
3.0
2.0
1.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
66-Dy-162

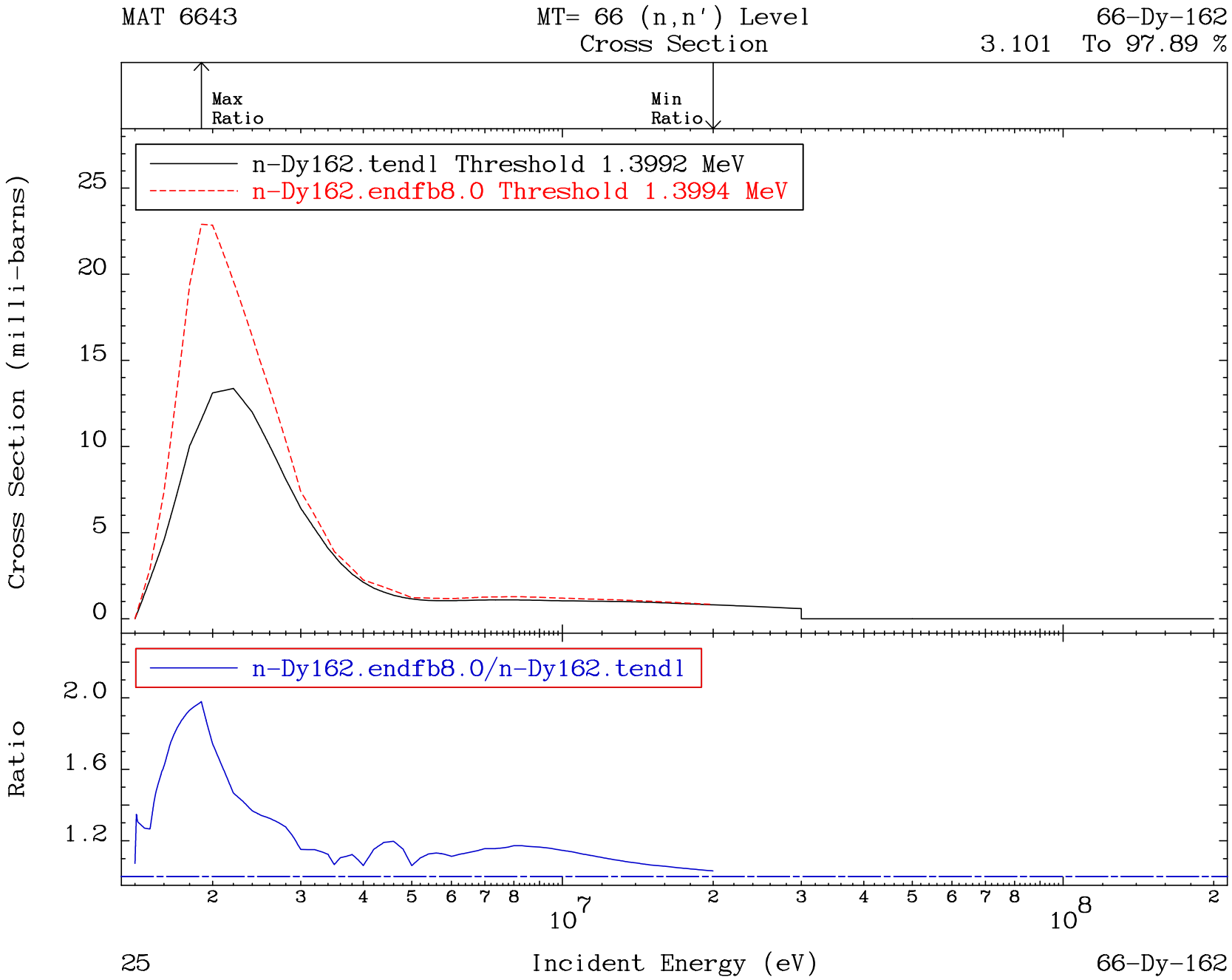

MAT 6643
MT= 61 (n,n') Level
Cross Section
66-Dy-162
0.907 To 287.2 %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.2837 MeV
n-Dy162.endfb8.0 Threshold 1.2841 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
4
3
2
1
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
66-Dy-162

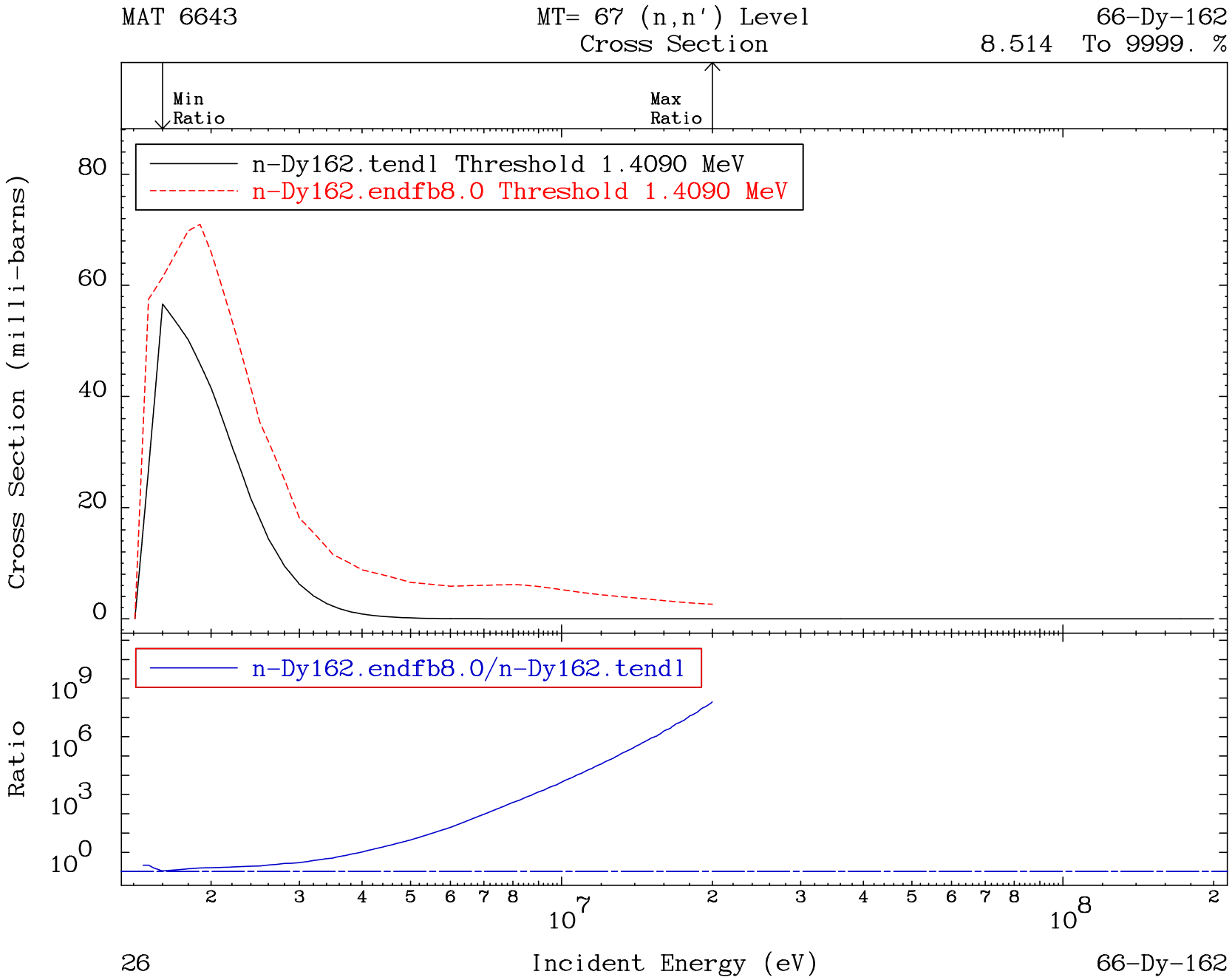

MAT 6643
MT= 62 (n,n') Level
Cross Section
66-Dy-162
-38.15 To 77.06 %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.3051 MeV
n-Dy162.endfb8.0 Threshold 1.3051 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
2.0
1.6
1.2
0.8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
66-Dy-162

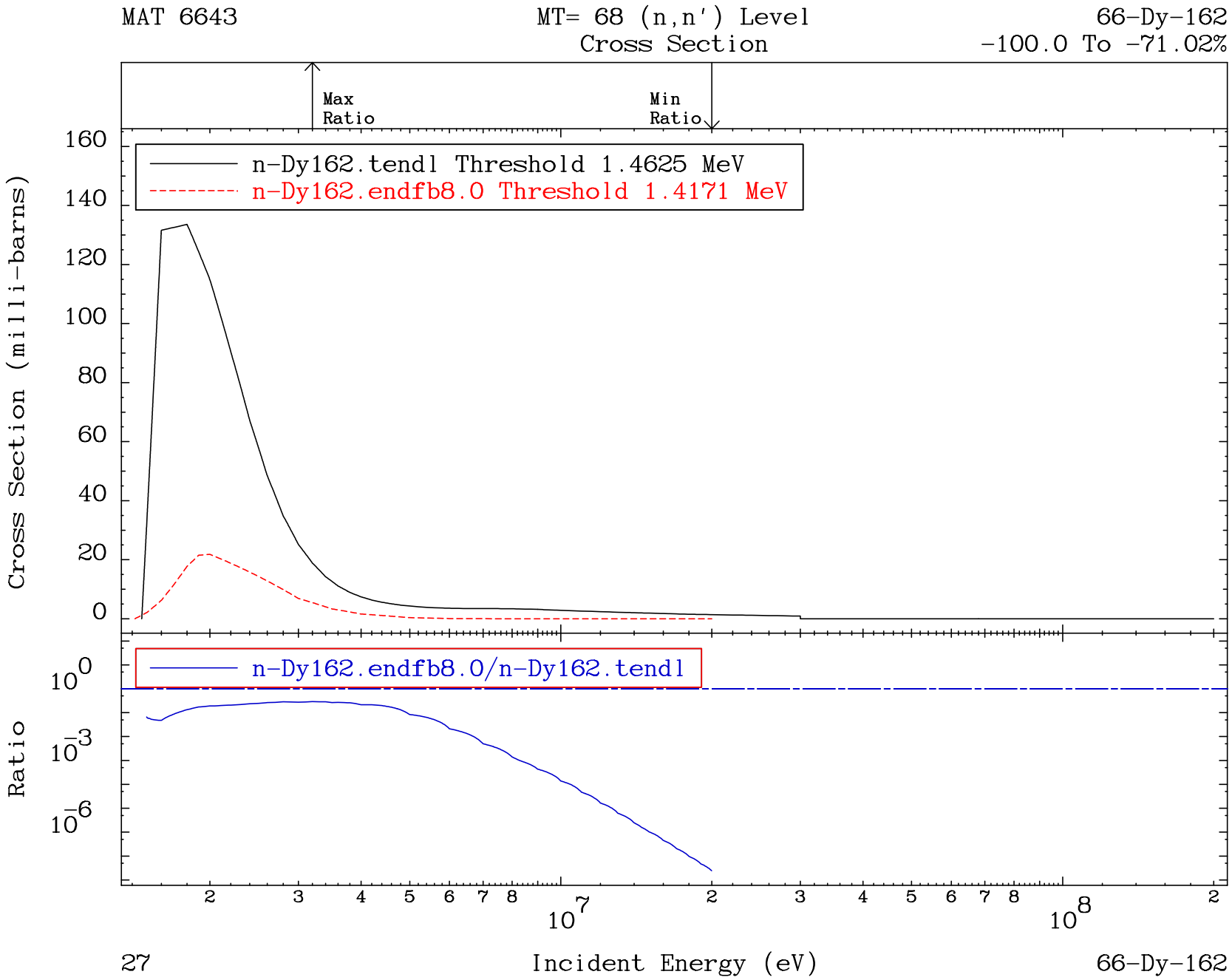

MAT 6643
MT= 63 (n,n') Level
Cross Section
66-Dy-162
-100.0 To 32.81 %
Max
Ratio
Min
Ratio
n-Dy162.tendl Threshold 1.3327 MeV
n-Dy162.endfb8.0 Threshold 1.3327 MeV
Cross Section (milli-barns)
0
2
4
6
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
66-Dy-162

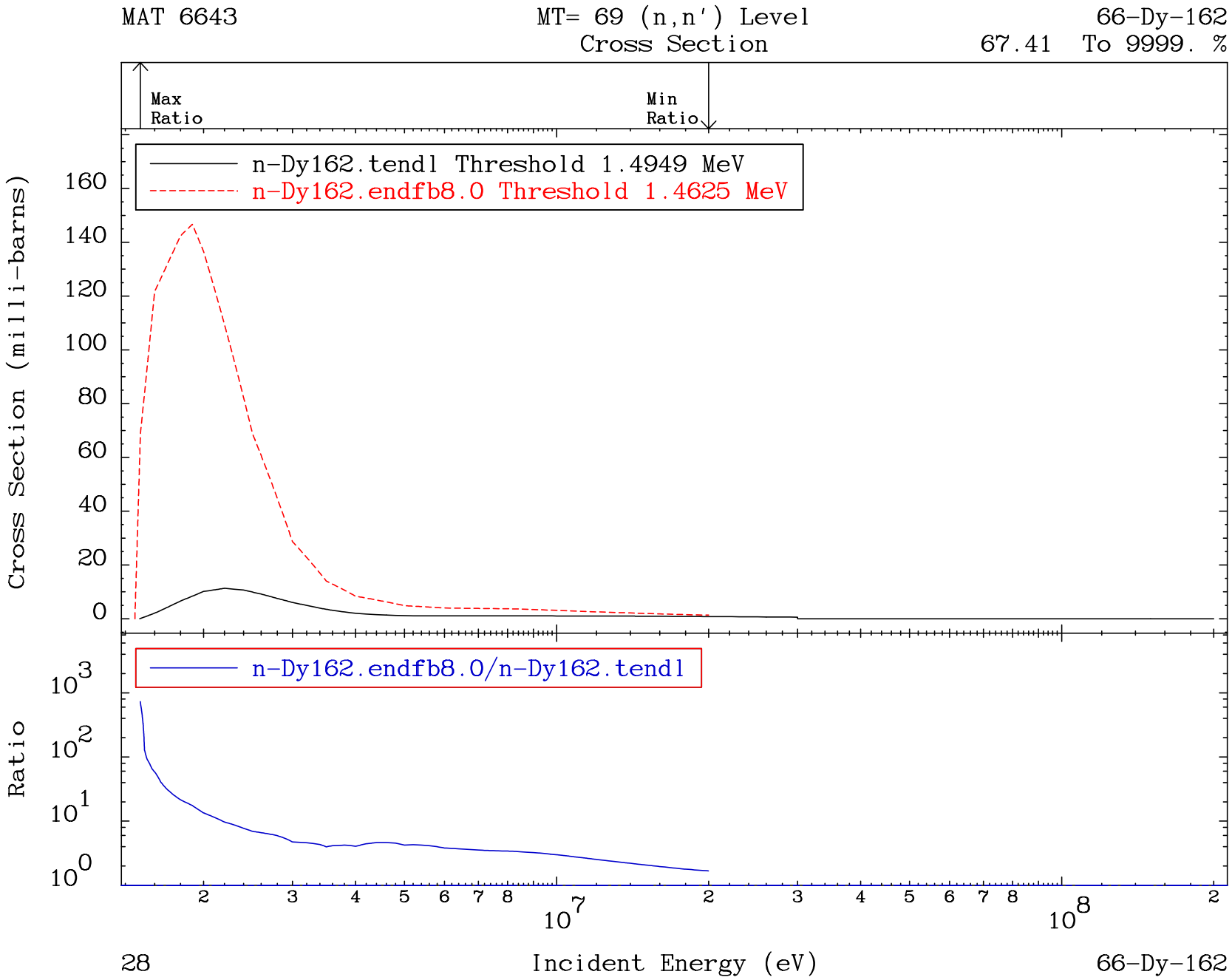

MAT 6643
MT= 64 (n,n') Level
Cross Section
66-Dy-162
-100.0 To 56.65 %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.3664 MeV
n-Dy162.endfb8.0 Threshold 1.3662 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
66-Dy-162

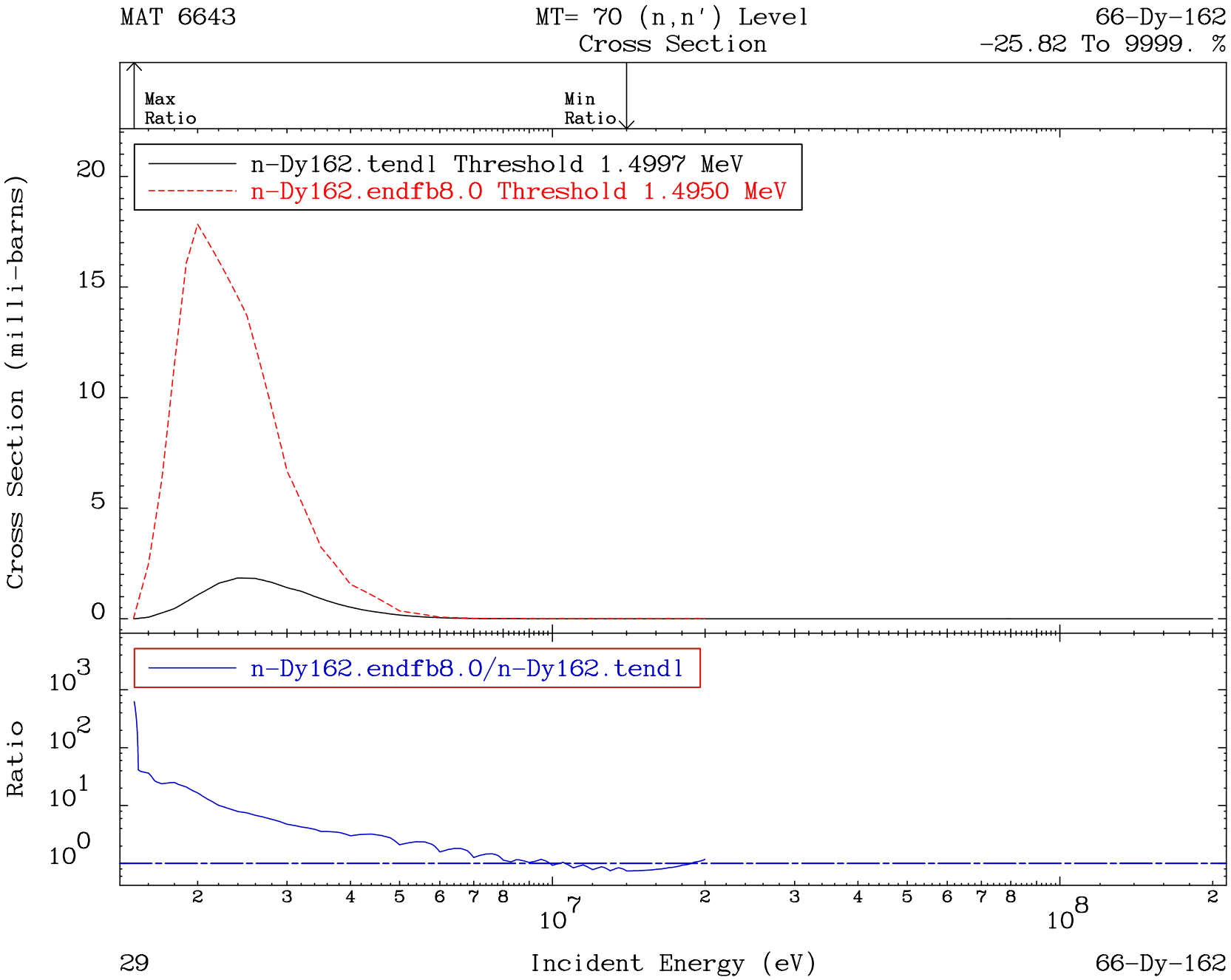

MAT 6643
MT= 65 (n,n') Level
Cross Section
66-Dy-162
-98.13 To 192.1 %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.3837 MeV
n-Dy162.endfb8.0 Threshold 1.3835 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-1
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
66-Dy-162

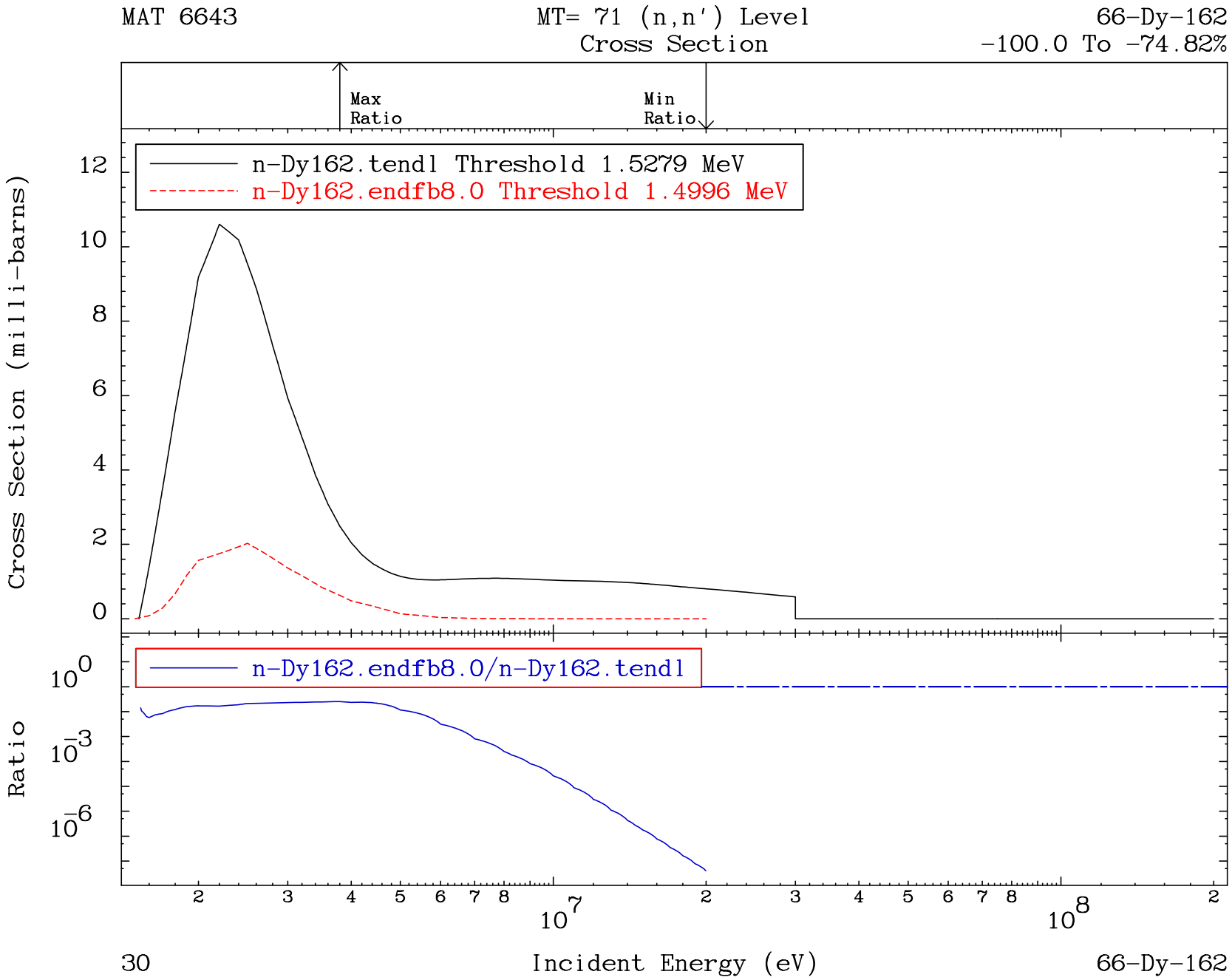

MAT 6643
MT= 66 (n,n') Level
Cross Section
66-Dy-162
3.101 To 97.89 %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.3992 MeV
n-Dy162.endfb8.0 Threshold 1.3994 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
2.0
1.6
1.2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
66-Dy-162

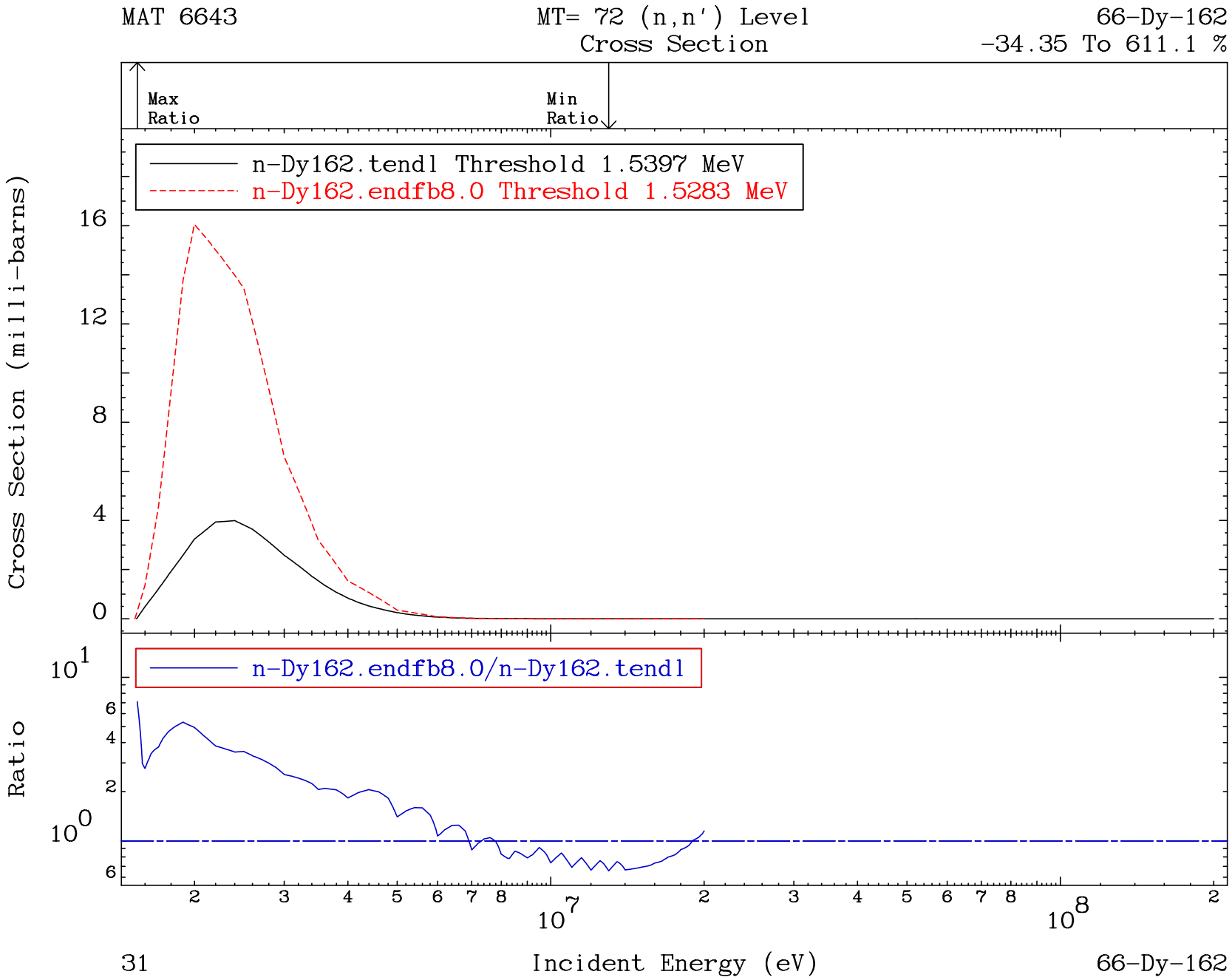

MAT 6643
MT= 67 (n,n') Level
Cross Section
66-Dy-162
8.514 To 9999. %
Min Ratio
Max Ratio
n-Dy162.tendl Threshold 1.4090 MeV
n-Dy162.endfb8.0 Threshold 1.4090 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
66-Dy-162

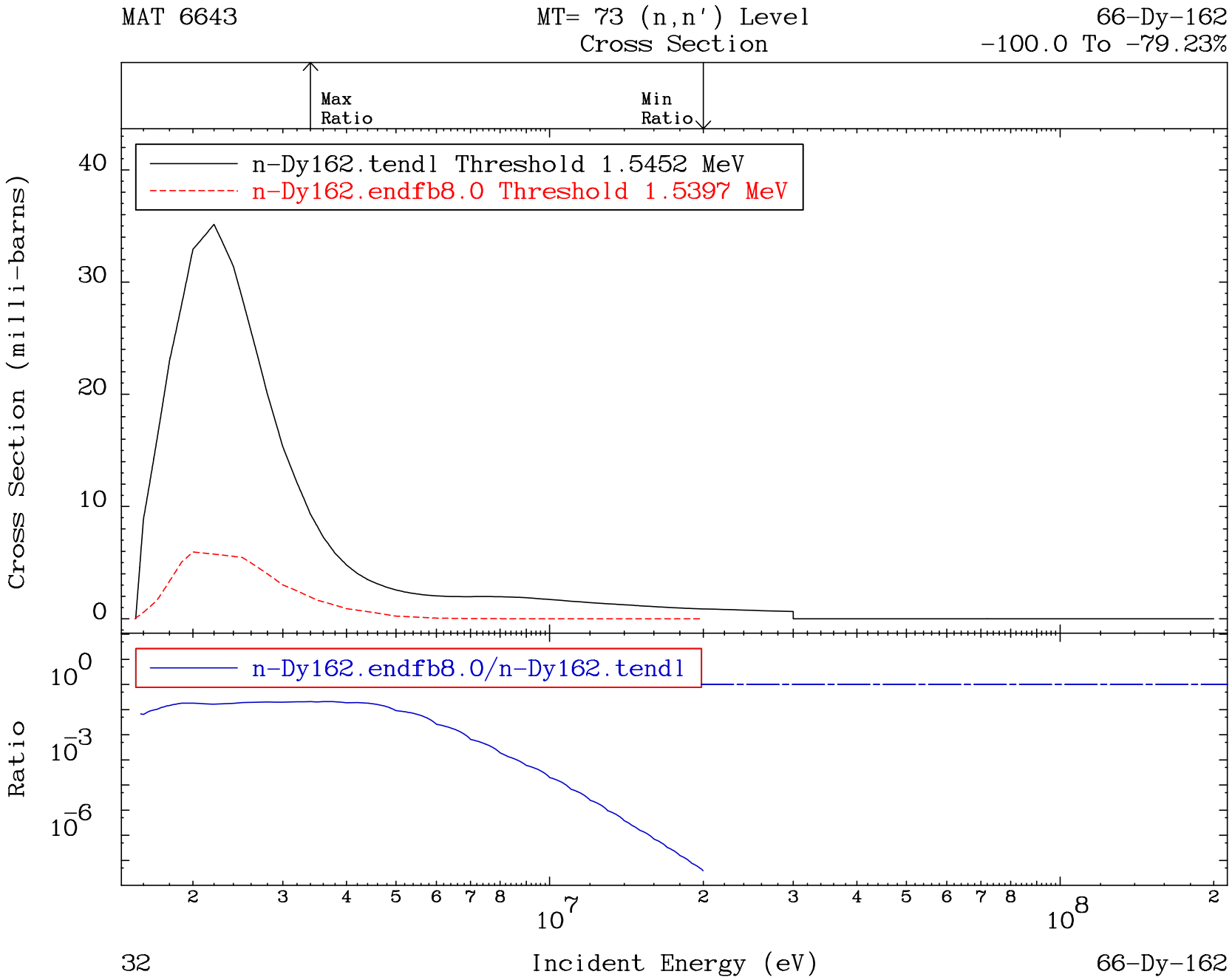

MAT 6643
MT= 68 (n,n') Level
Cross Section
66-Dy-162
-100.0 To -71.02%
Max
Ratio
Min
Ratio
n-Dy162.tendl Threshold 1.4625 MeV
n-Dy162.endfb8.0 Threshold 1.4171 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
27
Incident Energy (eV)
66-Dy-162

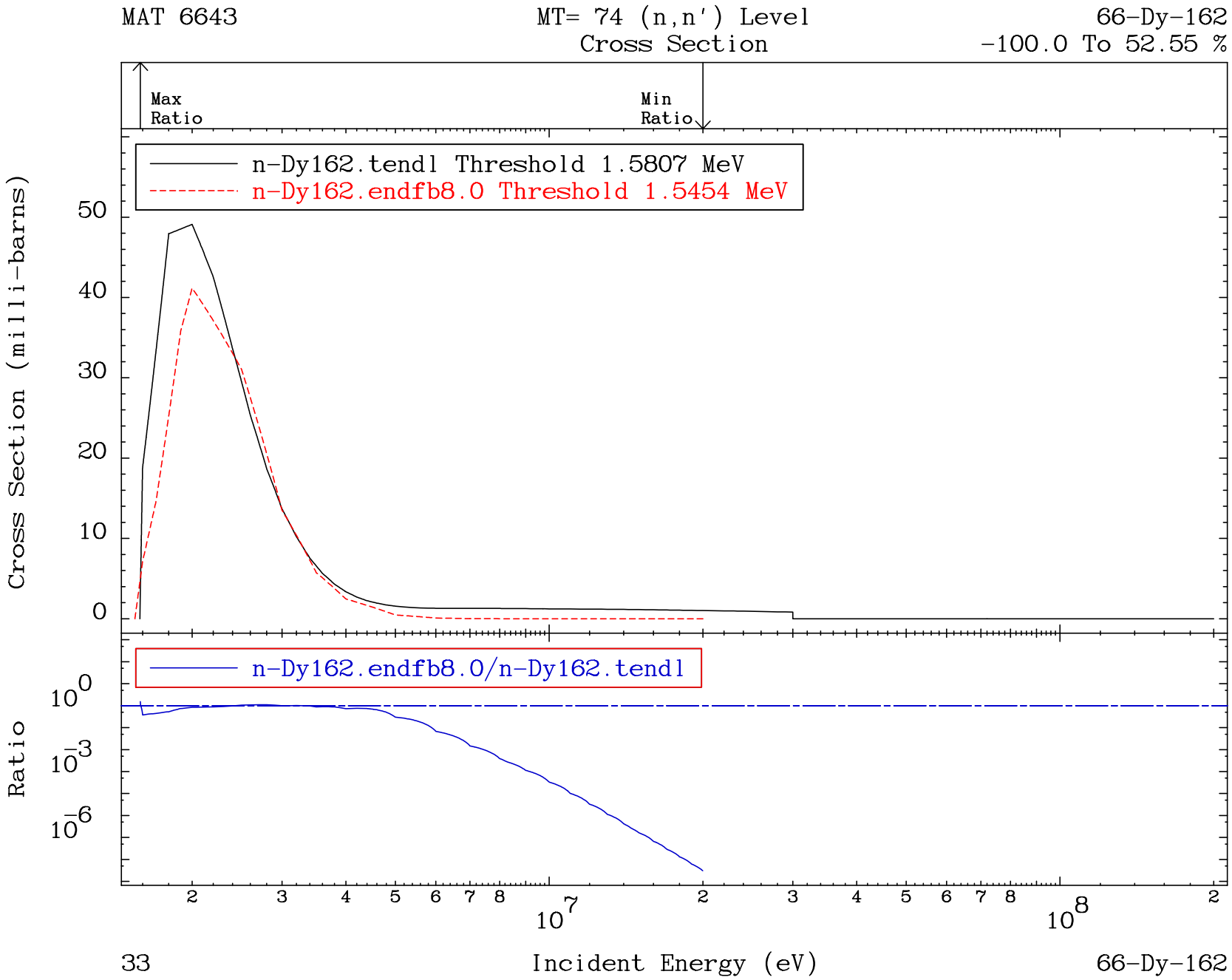

MAT 6643
MT= 69 (n,n') Level
Cross Section
66-Dy-162
67.41 To 9999. %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.4949 MeV
n-Dy162.endfb8.0 Threshold 1.4625 MeV
Cross Section (milli-barns)
0
20
40
60
80
100
120
140
160
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^1
10^2
10^3
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
66-Dy-162

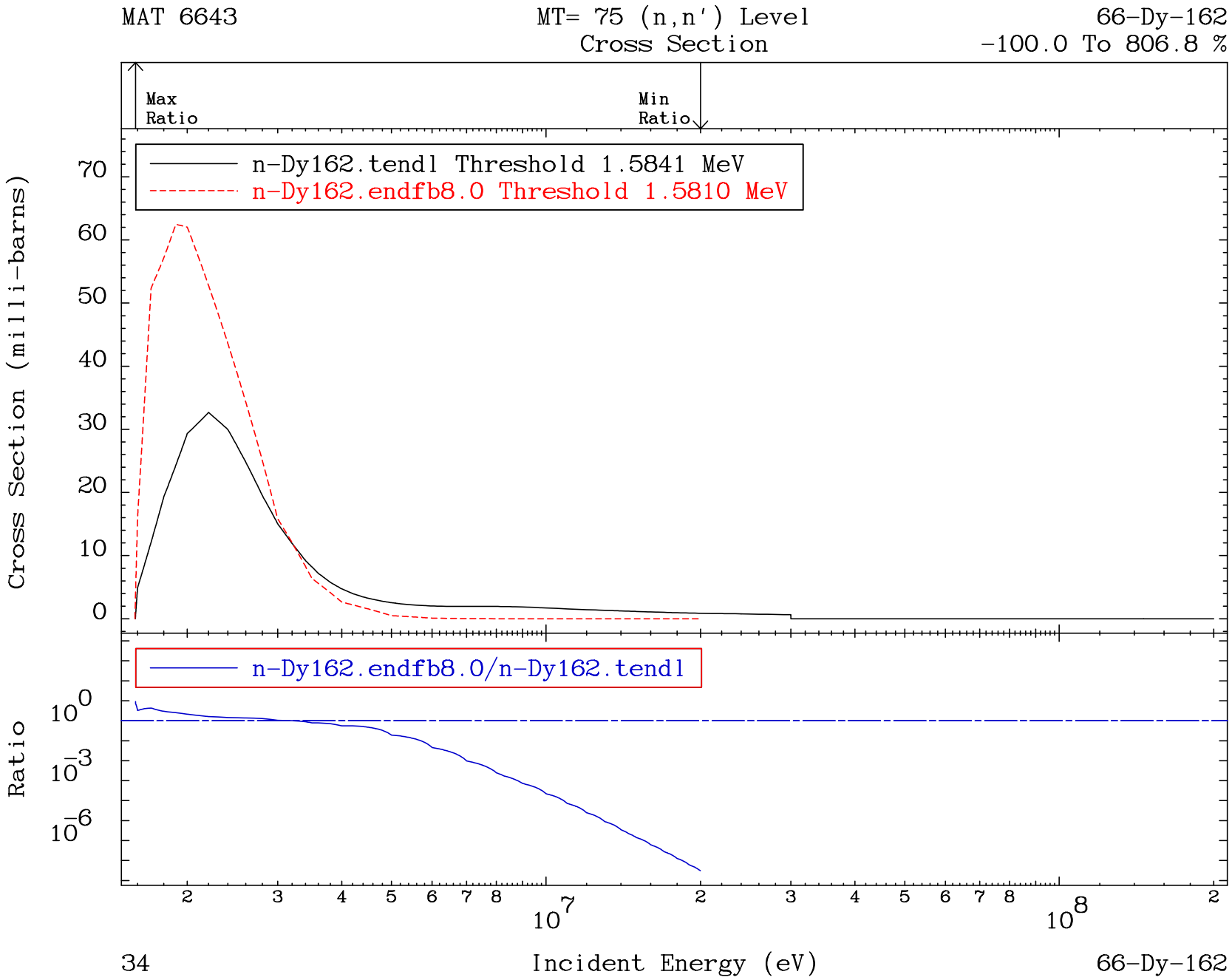

MAT 6643
MT= 70 (n,n') Level
Cross Section
66-Dy-162
-25.82 To 9999. %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.4997 MeV
n-Dy162.endfb8.0 Threshold 1.4950 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^3
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
66-Dy-162

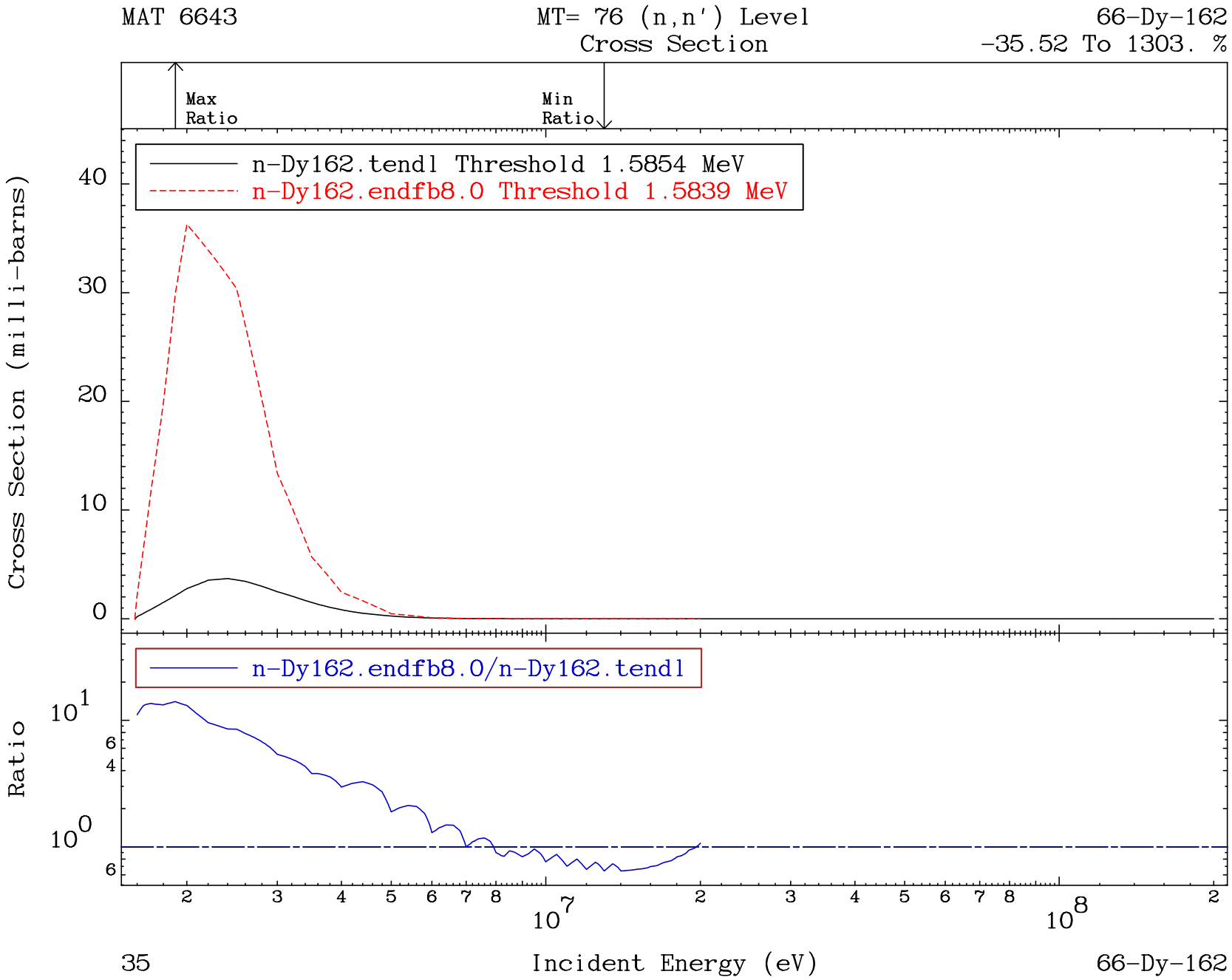

MAT 6643
MT= 71 (n,n') Level
Cross Section
66-Dy-162
-100.0 To -74.82%
Max
Ratio
Min
Ratio
n-Dy162.tendl Threshold 1.5279 MeV
n-Dy162.endfb8.0 Threshold 1.4996 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
30
Incident Energy (eV)
66-Dy-162

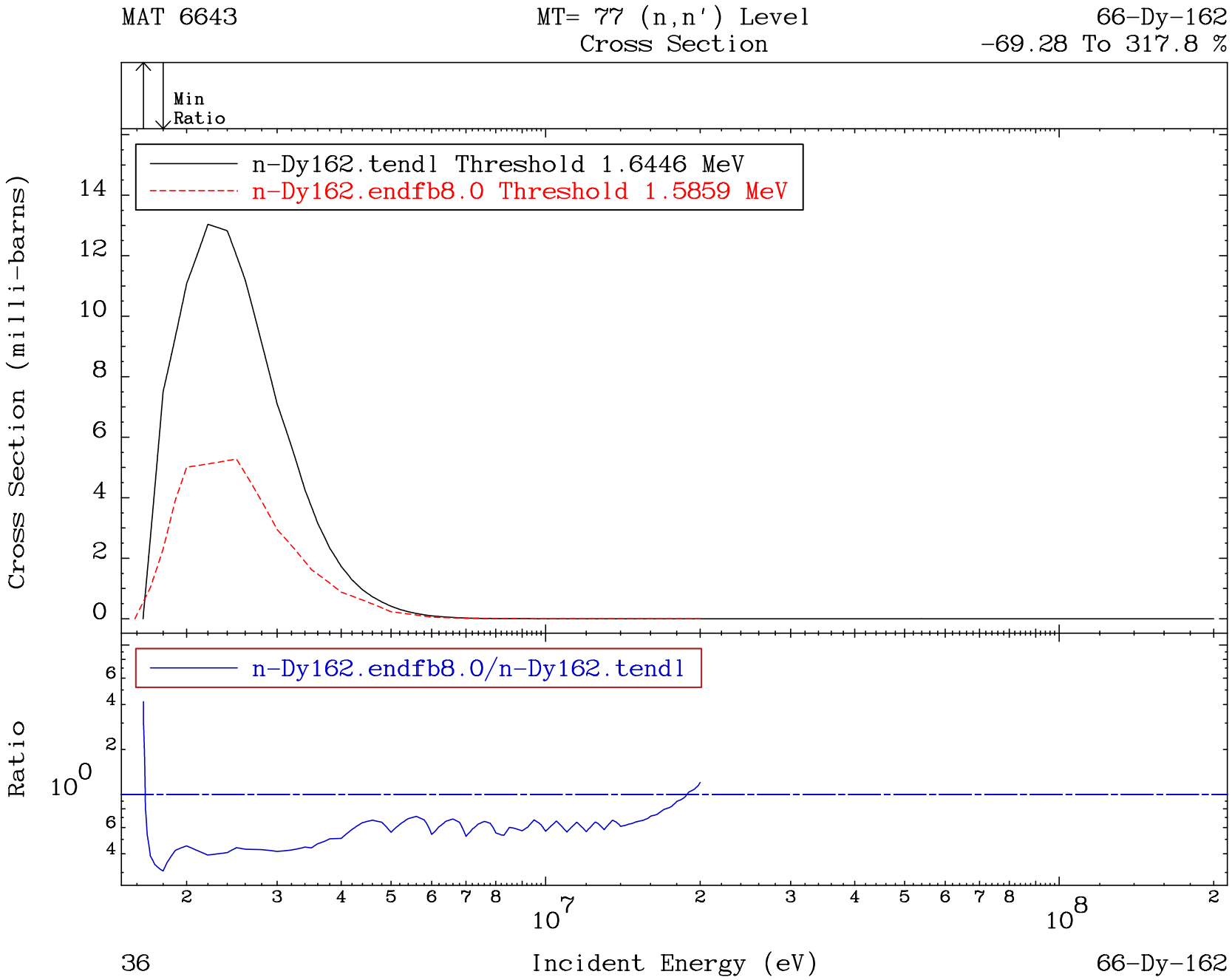

MAT 6643
MT= 72 (n,n') Level
Cross Section
66-Dy-162
-34.35 To 611.1 %
Max
Ratio
Min
Ratio
n-Dy162.tendl Threshold 1.5397 MeV
n-Dy162.endfb8.0 Threshold 1.5283 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^1
10^0
6
4
2
6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
66-Dy-162

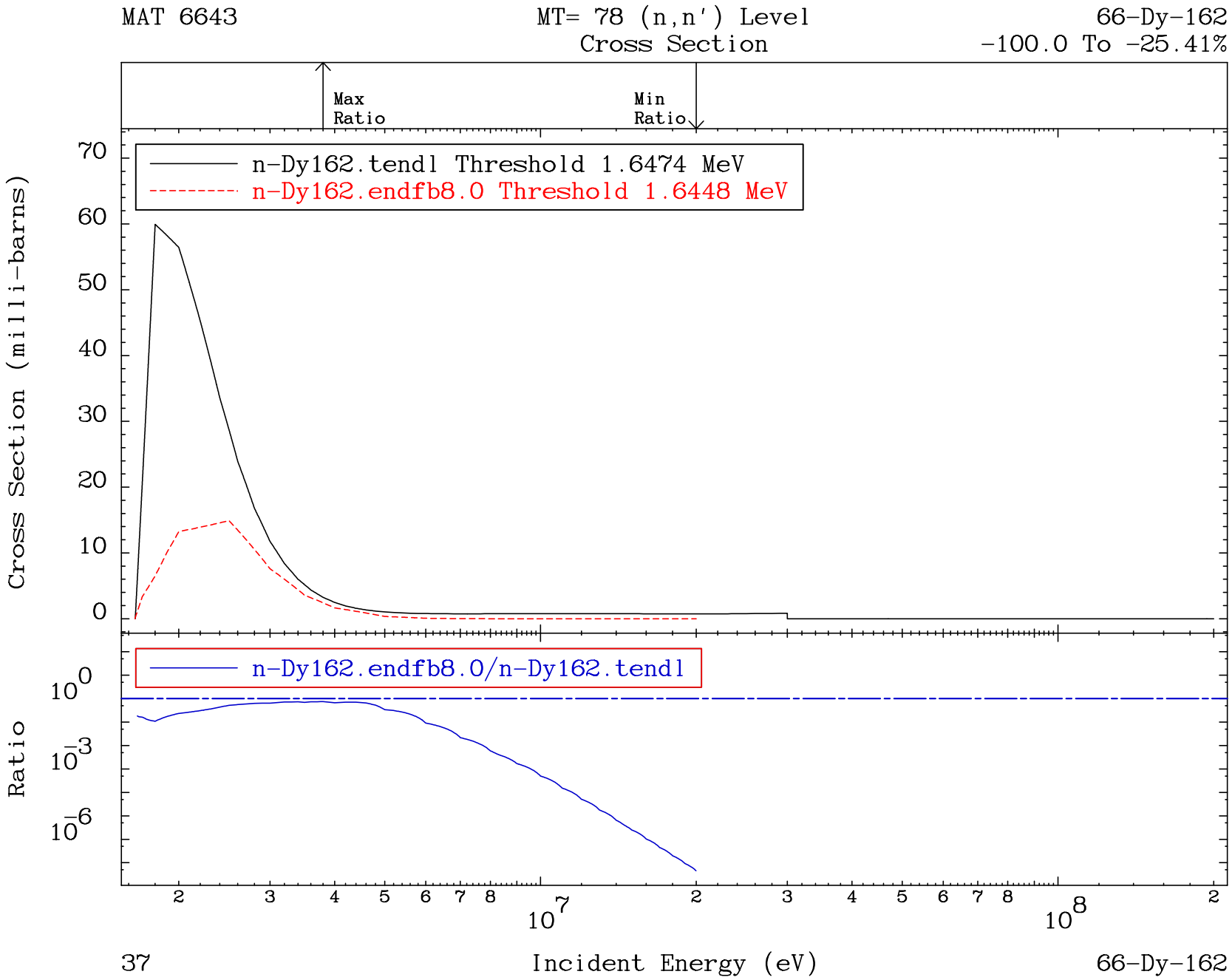

MAT 6643
MT= 73 (n,n') Level
Cross Section
66-Dy-162
-100.0 To -79.23%
Max
Ratio
Min
Ratio
n-Dy162.tendl Threshold 1.5452 MeV
n-Dy162.endfb8.0 Threshold 1.5397 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
32
Incident Energy (eV)
66-Dy-162

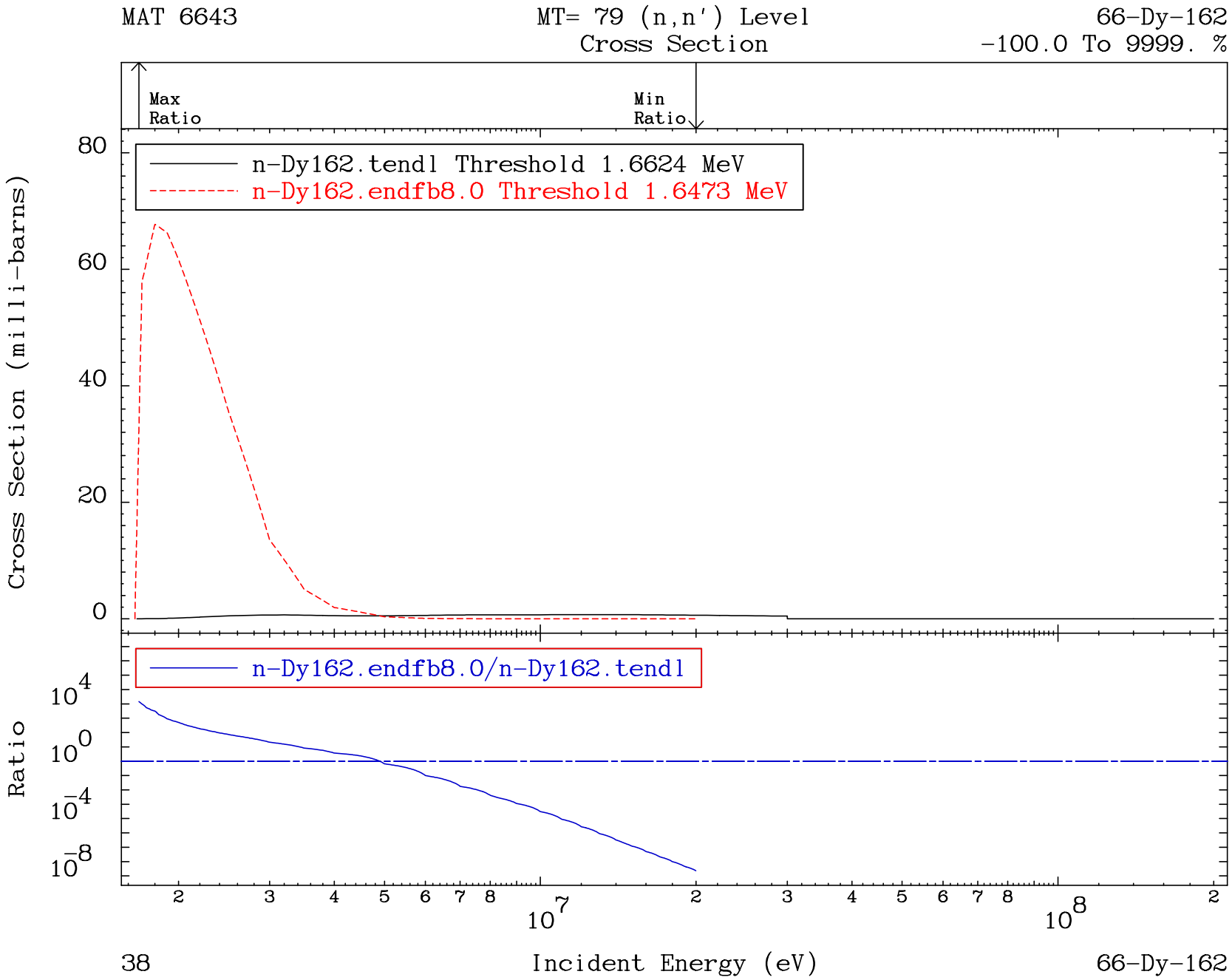

MAT 6643
MT= 74 (n,n') Level
Cross Section
66-Dy-162
-100.0 To 52.55 %
Max
Ratio
Min
Ratio
n-Dy162.tendl Threshold 1.5807 MeV
n-Dy162.endfb8.0 Threshold 1.5454 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
33
Incident Energy (eV)
66-Dy-162

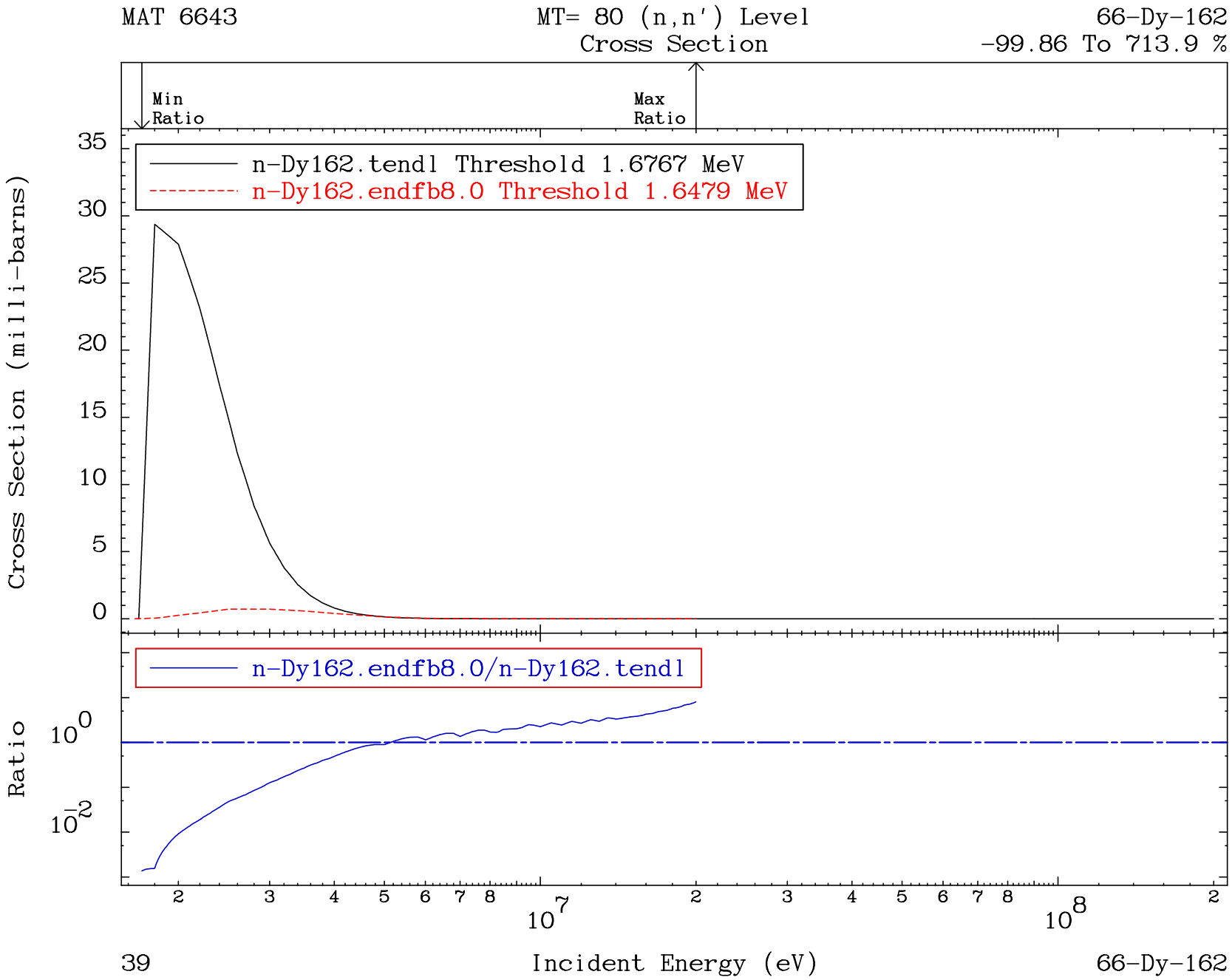

MAT 6643
MT= 75 (n,n') Level
Cross Section
66-Dy-162
-100.0 To 806.8 %
Max
Ratio
Min
Ratio
n-Dy162.tendl Threshold 1.5841 MeV
n-Dy162.endfb8.0 Threshold 1.5810 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
34
Incident Energy (eV)
66-Dy-162

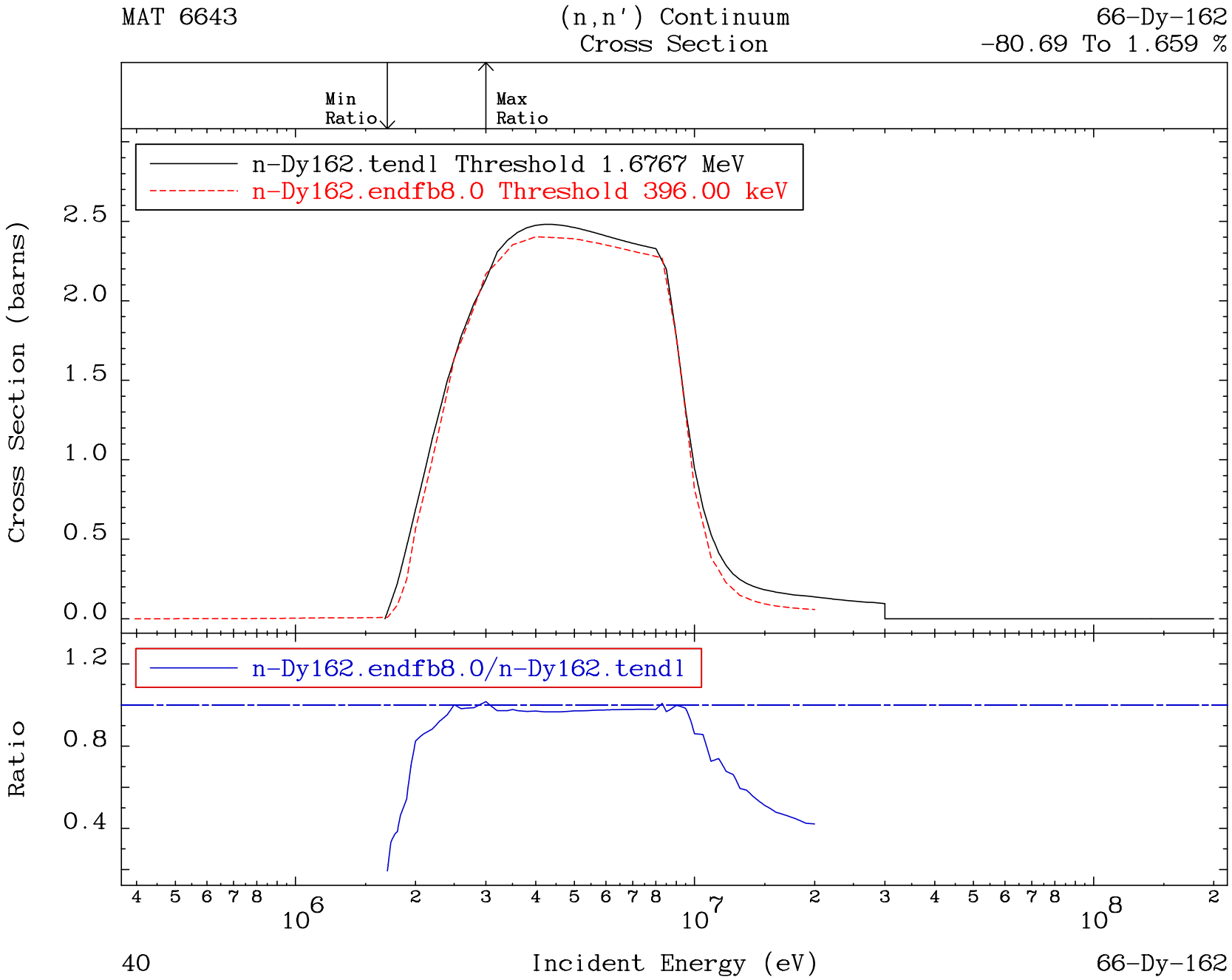

MAT 6643
MT= 76 (n,n') Level
Cross Section
66-Dy-162
-35.52 To 1303. %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.5854 MeV
n-Dy162.endfb8.0 Threshold 1.5839 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^1
6
4
10^0
6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
35
Incident Energy (eV)
66-Dy-162

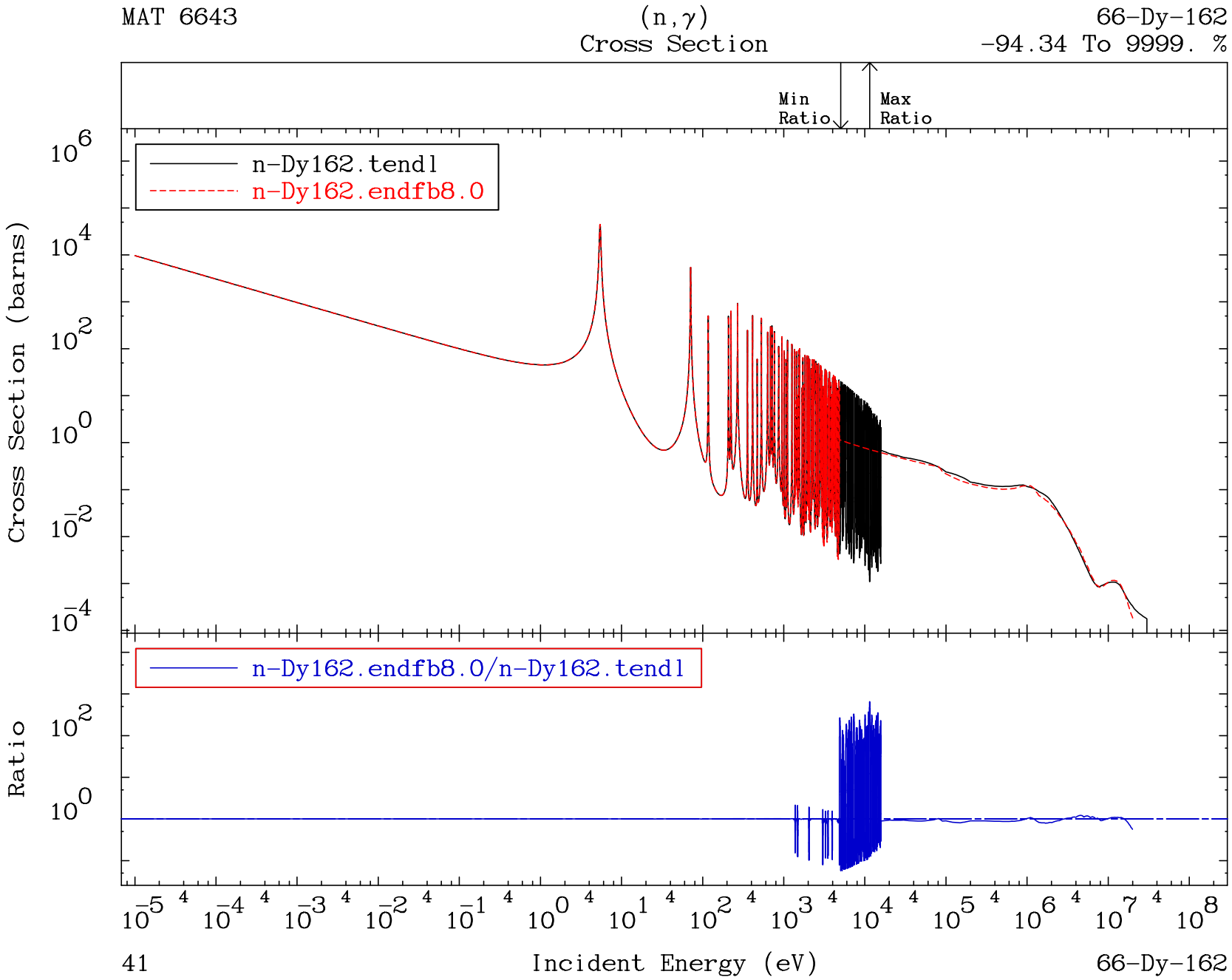

MAT 6643
MT= 77 (n,n') Level
Cross Section
66-Dy-162
-69.28 To 317.8 %
Min
Ratio
n-Dy162.tendl Threshold 1.6446 MeV
n-Dy162.endfb8.0 Threshold 1.5859 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
6
4
2
10^0
6
4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
36
Incident Energy (eV)
66-Dy-162

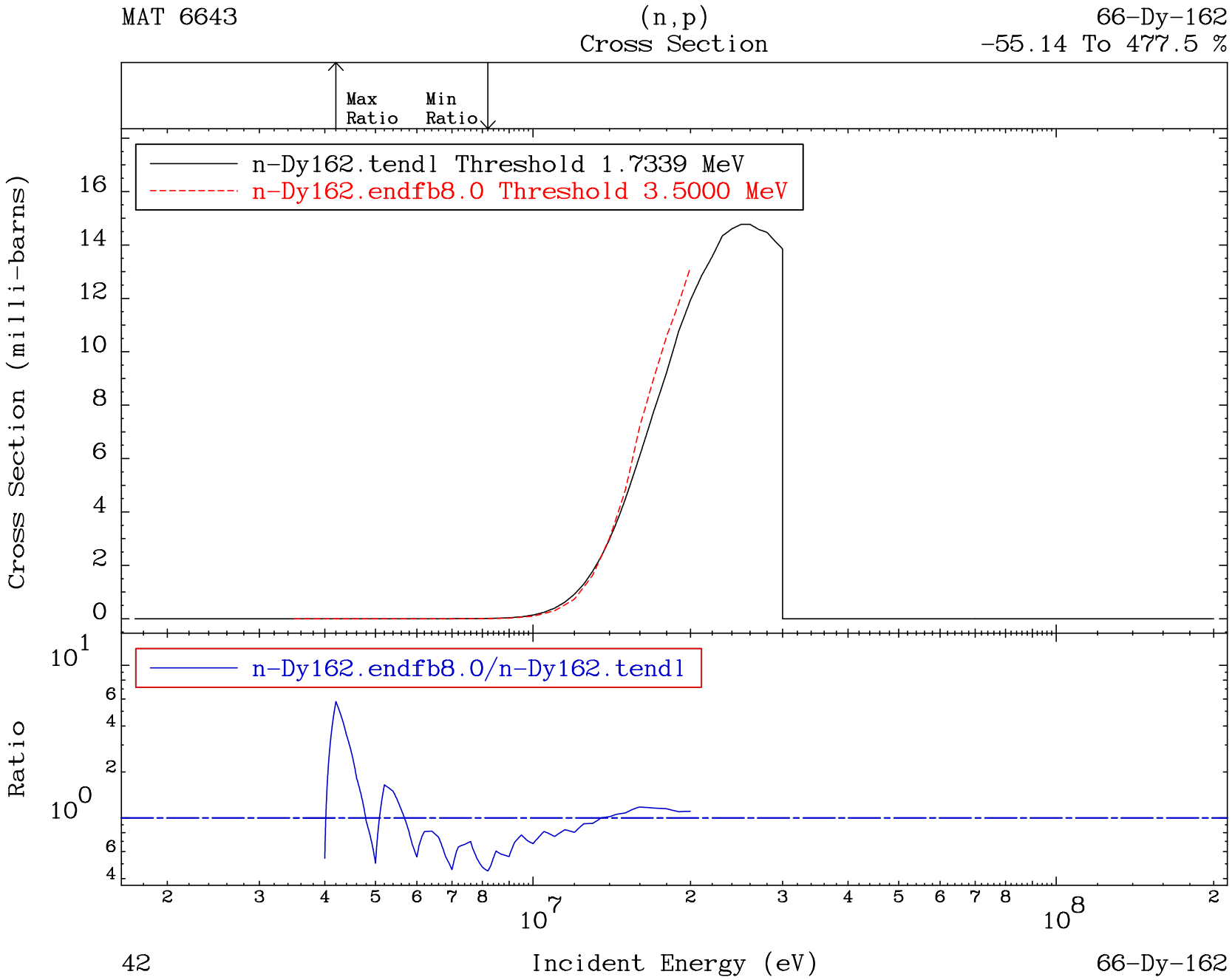

MAT 6643
MT= 78 (n,n') Level
Cross Section
66-Dy-162
-100.0 To -25.41%
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.6474 MeV
n-Dy162.endfb8.0 Threshold 1.6448 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
66-Dy-162

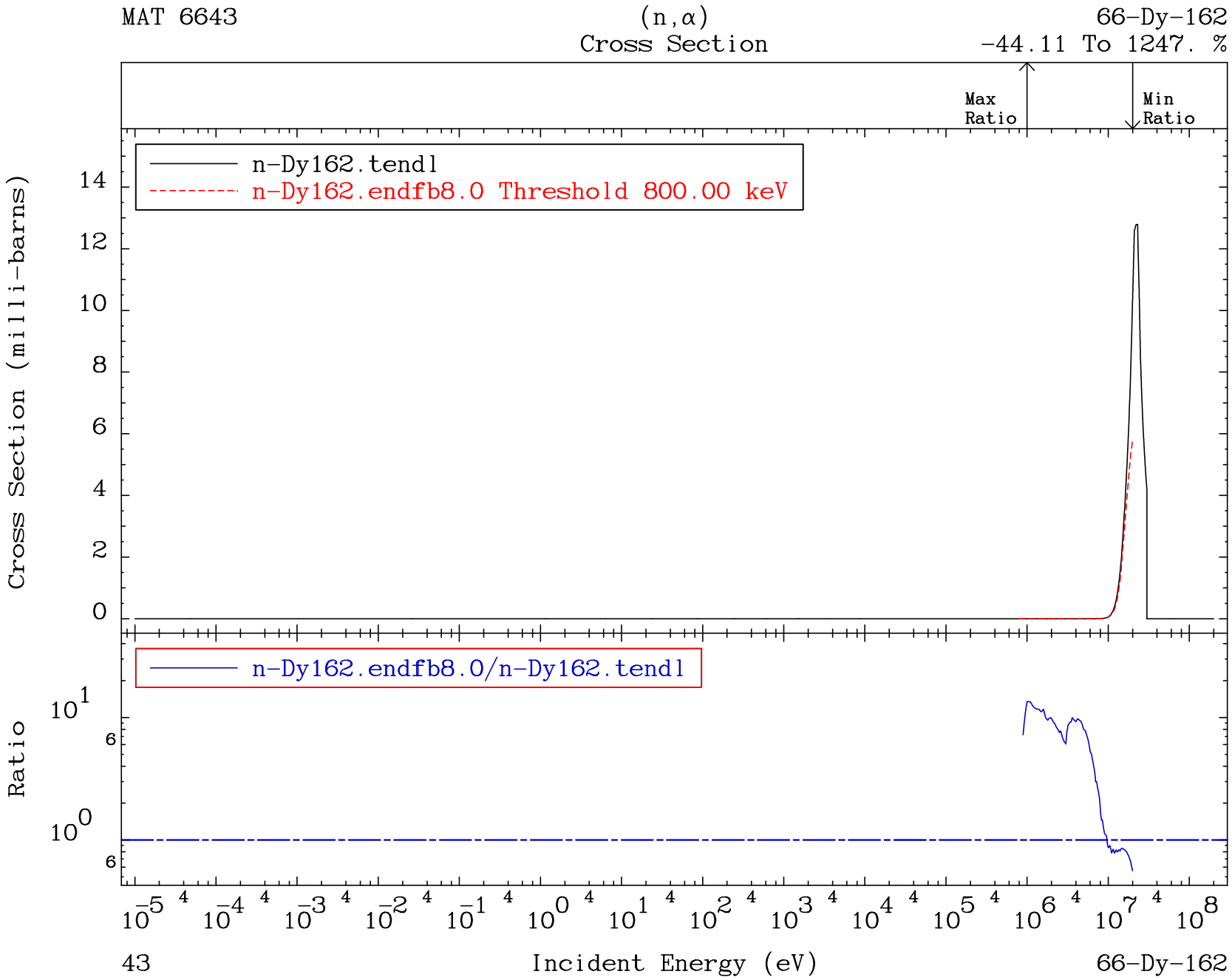

MAT 6643
MT= 79 (n,n') Level
Cross Section
66-Dy-162
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.6624 MeV
n-Dy162.endfb8.0 Threshold 1.6473 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^4
10^0
10^-4
10^-8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
66-Dy-162

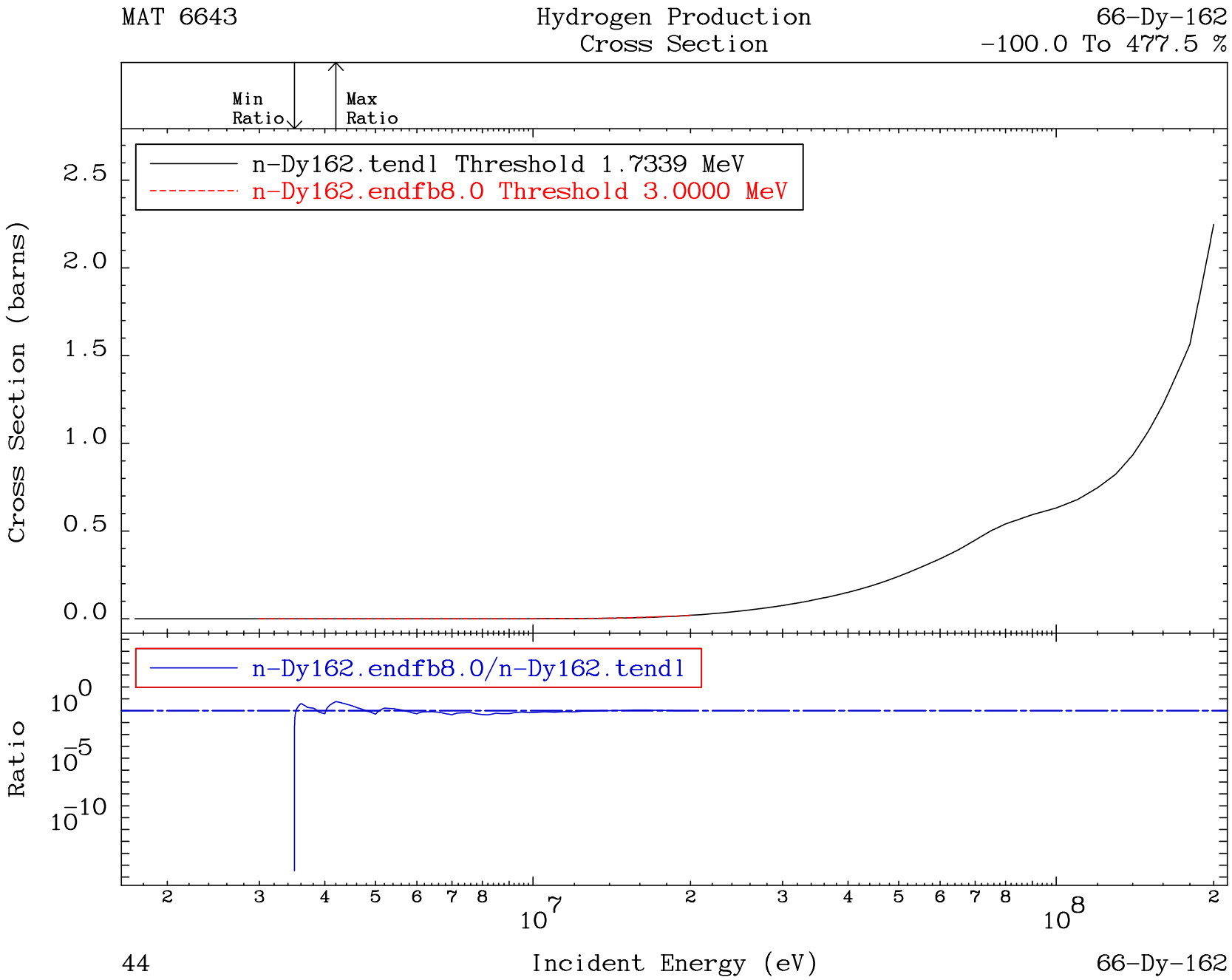

MAT 6643
MT= 80 (n,n') Level
Cross Section
66-Dy-162
-99.86 To 713.9 %
Min Ratio
Max Ratio
n-Dy162.tendl Threshold 1.6767 MeV
n-Dy162.endfb8.0 Threshold 1.6479 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
66-Dy-162

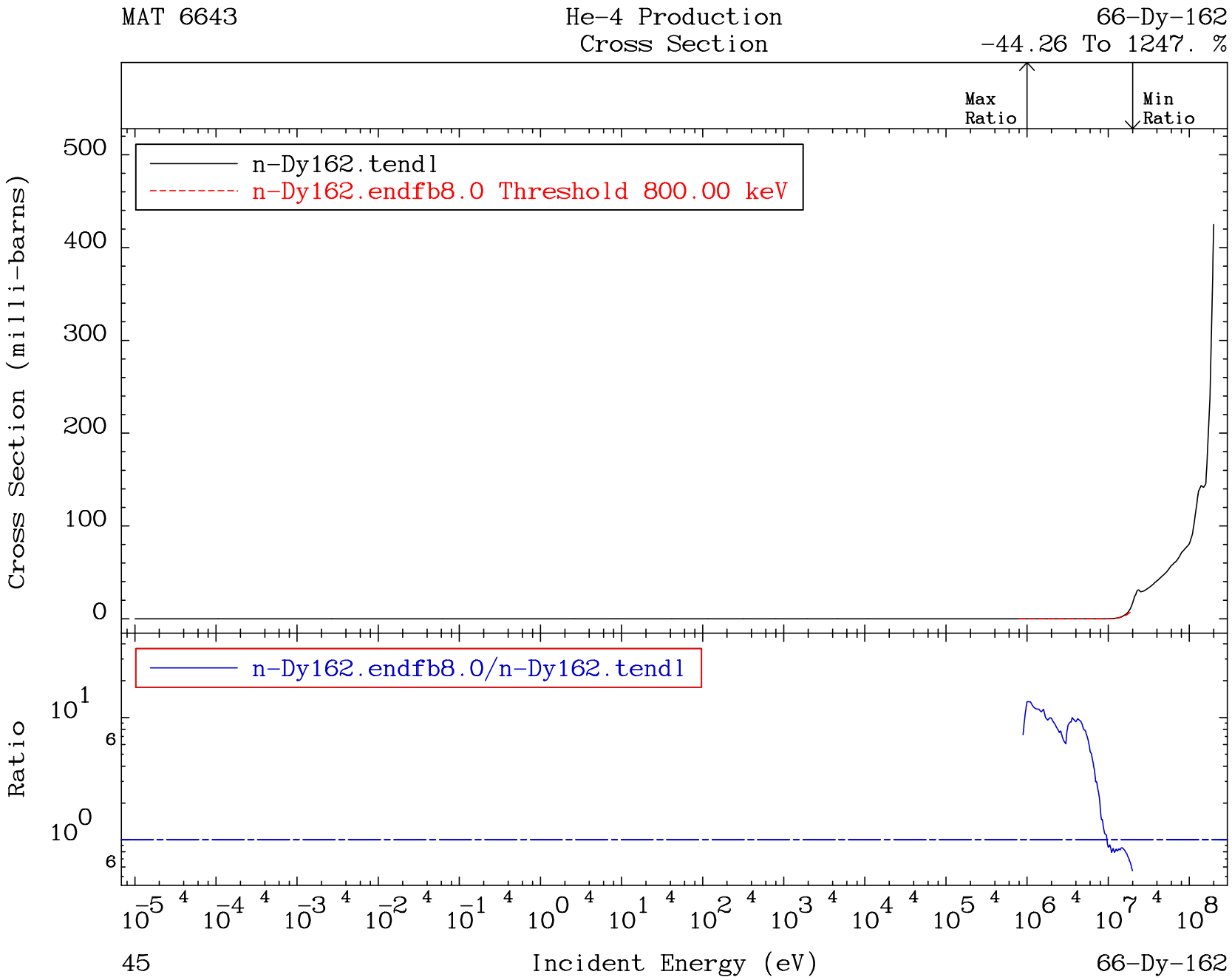

MAT 6643
(n,n') Continuum
Cross Section
66-Dy-162
-80.69 To 1.659 %
Min Ratio
Max Ratio
n-Dy162.tendl Threshold 1.6767 MeV
n-Dy162.endfb8.0 Threshold 396.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
1.2
0.8
0.4
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
40
Incident Energy (eV)
66-Dy-162

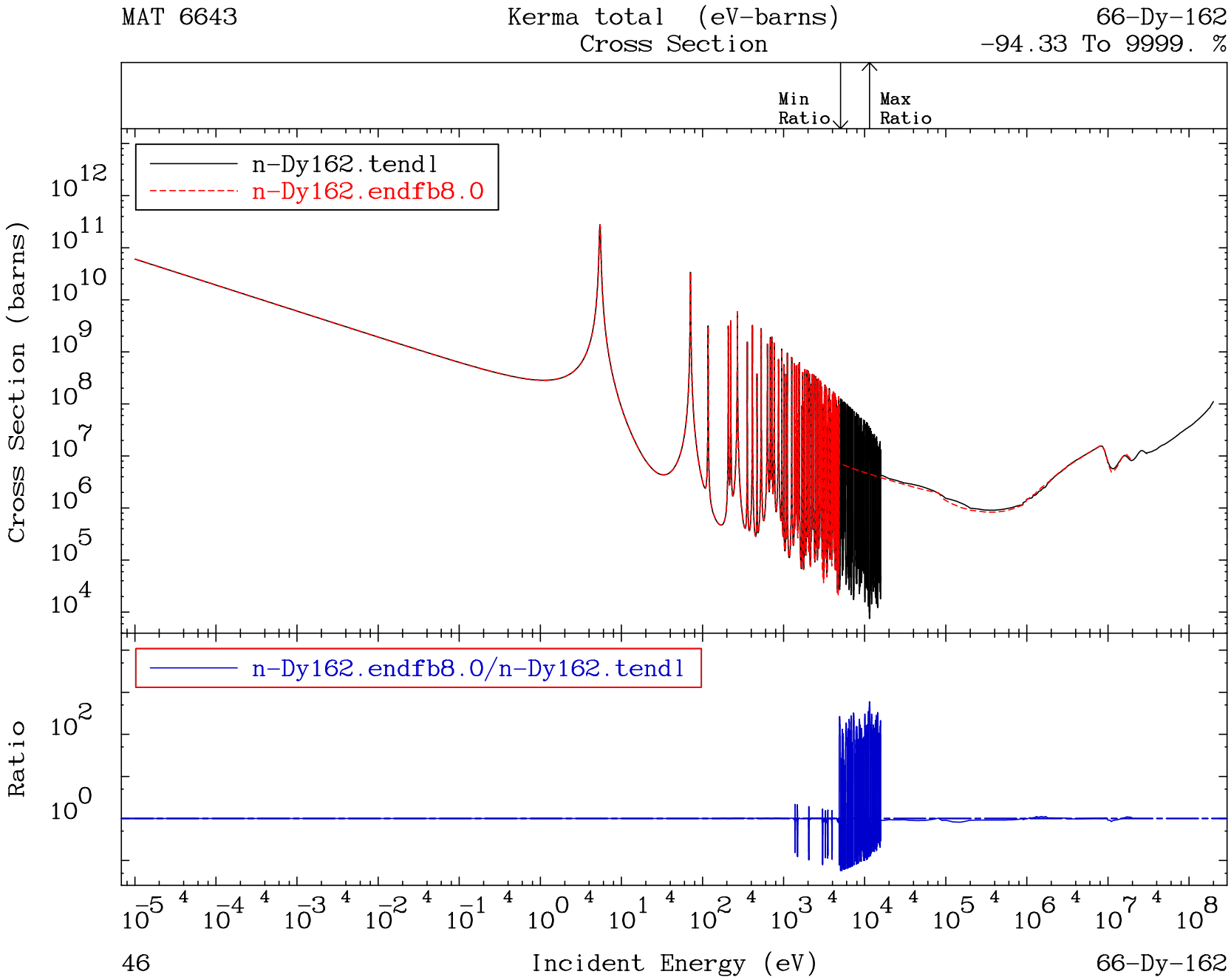

MAT 6643
(n,γ)
Cross Section
66-Dy-162
-94.34 To 9999. %
Min Ratio
Max Ratio
n-Dy162.tendl
n-Dy162.endfb8.0
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
41
Incident Energy (eV)
66-Dy-162

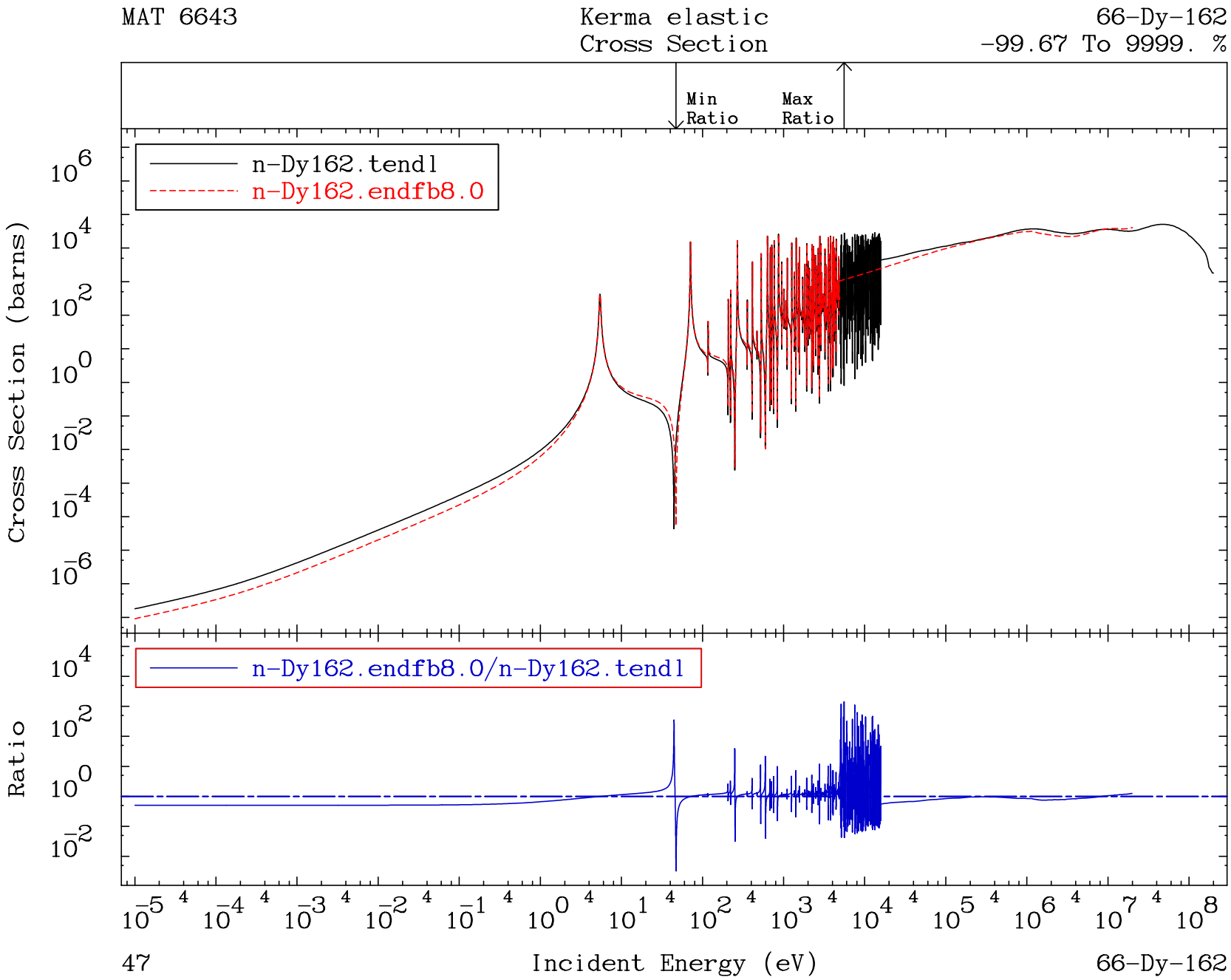

MAT 6643
(n,p)
Cross Section
66-Dy-162
-55.14 To 477.5 %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.7339 MeV
n-Dy162.endfb8.0 Threshold 3.5000 MeV
Cross Section (milli-barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
42
66-Dy-162

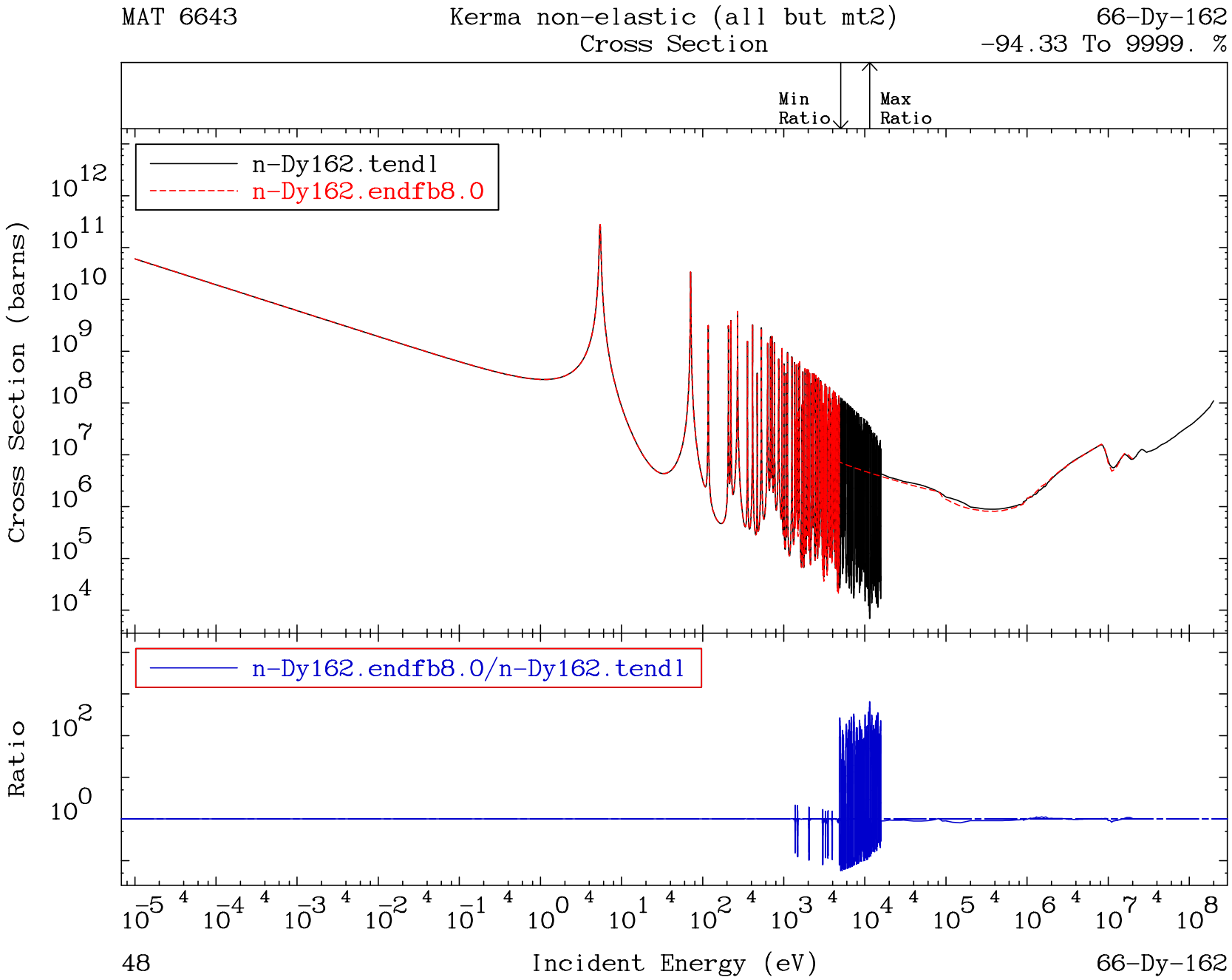

MAT 6643
(n,α)
Cross Section
66-Dy-162
-44.11 To 1247. %
Max Ratio
Min Ratio
n-Dy162.tendl
n-Dy162.endfb8.0 Threshold 800.00 keV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^1
10^0
6
6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
43
Incident Energy (eV)
66-Dy-162

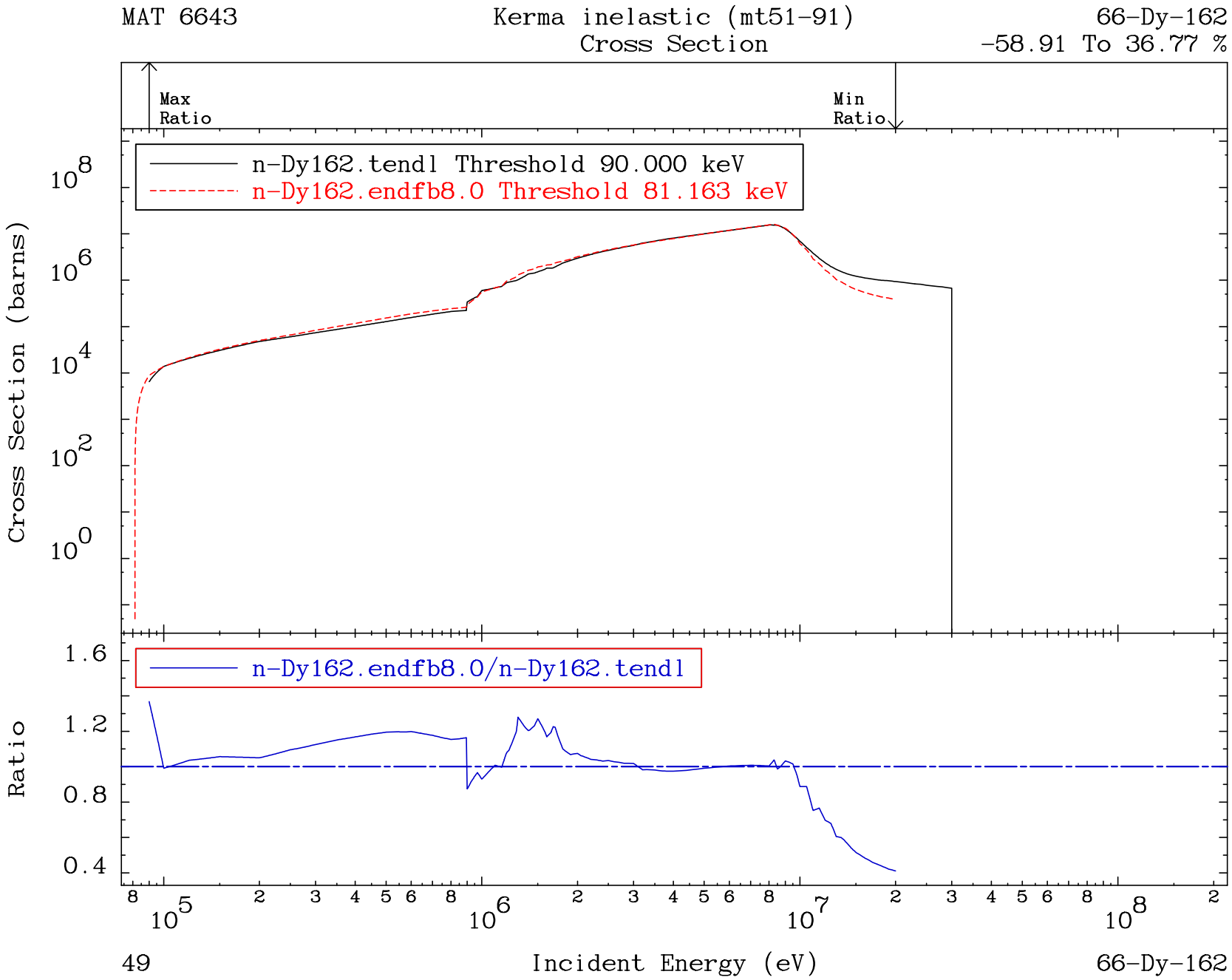

MAT 6643
Hydrogen Production
Cross Section
66-Dy-162
-100.0 To 477.5 %
Min Ratio
Max Ratio
n-Dy162.tendl Threshold 1.7339 MeV
n-Dy162.endfb8.0 Threshold 3.0000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^0
10^-5
10^-10
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
66-Dy-162

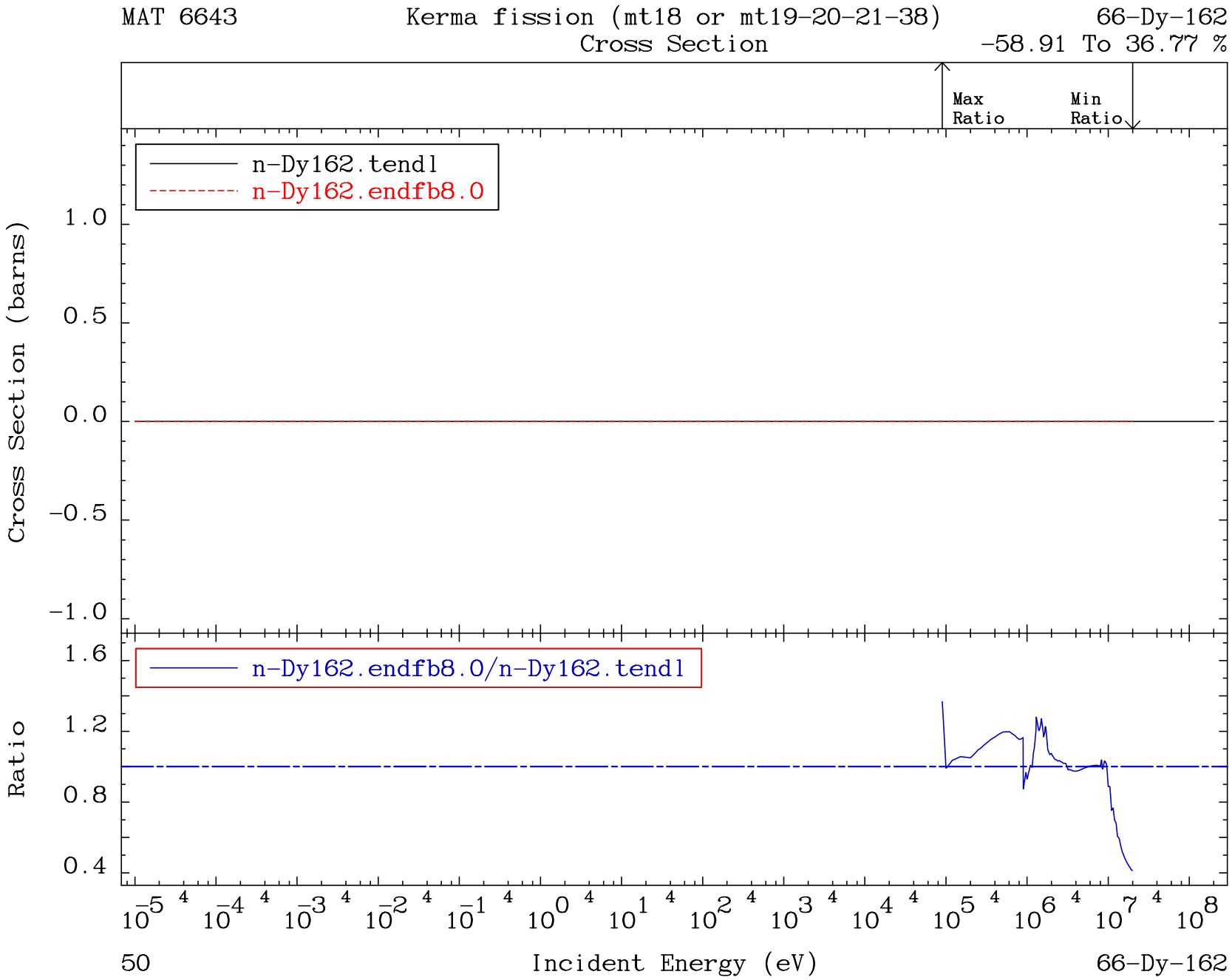

MAT 6643
He-4 Production
Cross Section
66-Dy-162
-44.26 To 1247. %
Max Ratio
Min Ratio
n-Dy162.tendl
n-Dy162.endfb8.0 Threshold 800.00 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
10^1
10^0
6
6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
45
Incident Energy (eV)
66-Dy-162

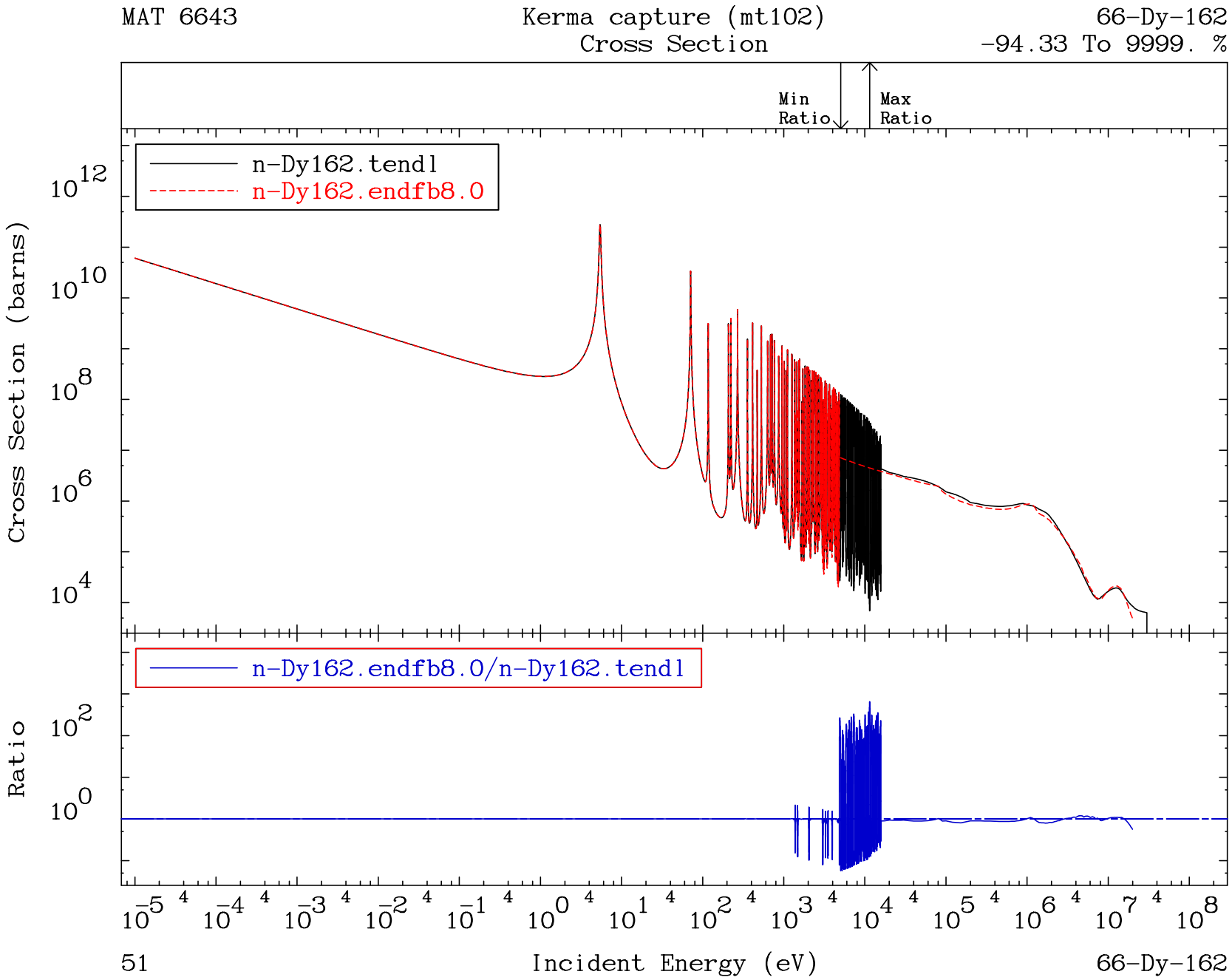

MAT 6643
Kerma total (eV-barns)
Cross Section
66-Dy-162
-94.33 To 9999. %
Min Ratio
Max Ratio
n-Dy162.tendl
n-Dy162.endfb8.0
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
46
66-Dy-162

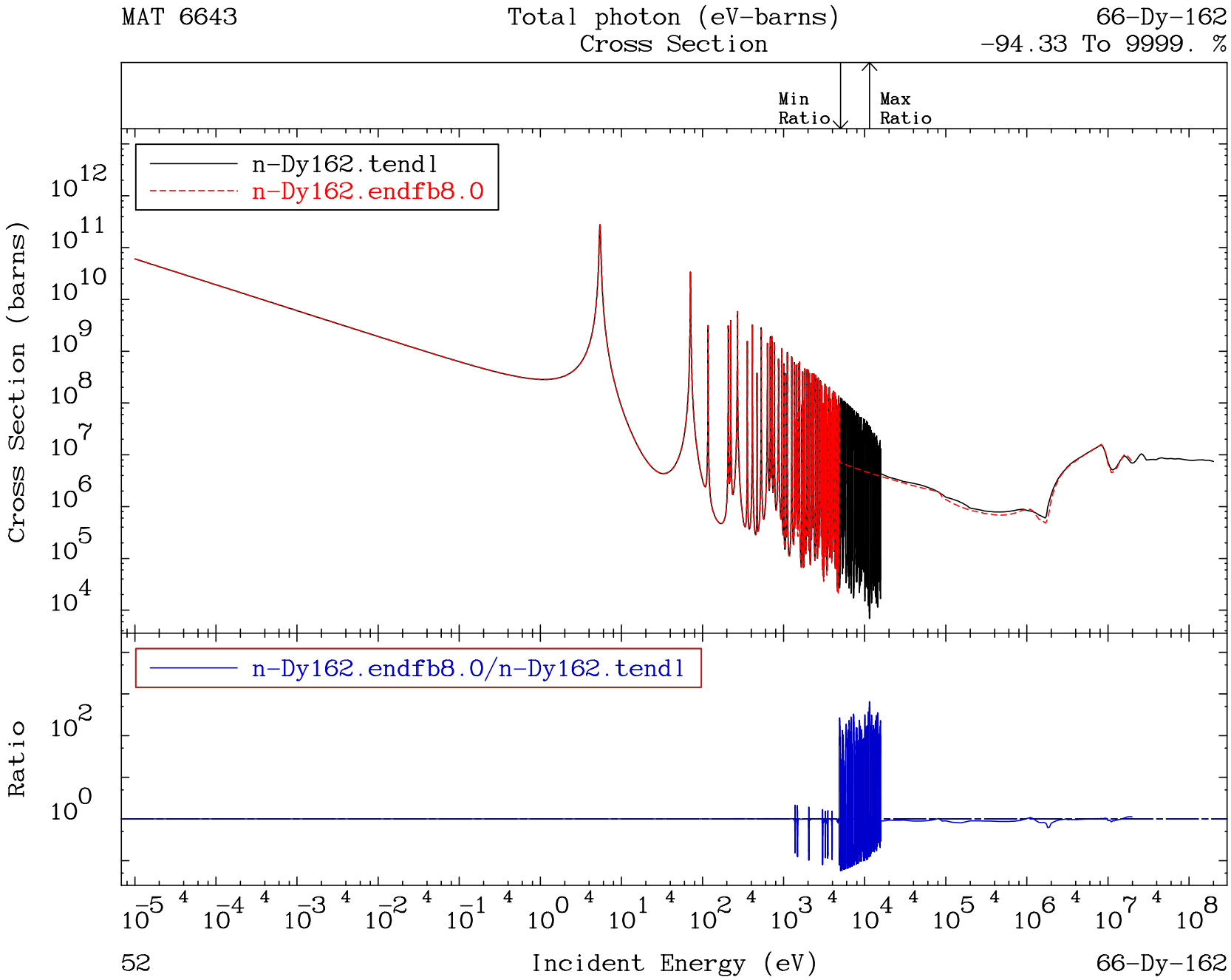

MAT 6643
Kerma elastic
Cross Section
66-Dy-162
-99.67 To 9999. %
Min
Ratio
Max
Ratio
n-Dy162.tendl
n-Dy162.endfb8.0
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
47
66-Dy-162

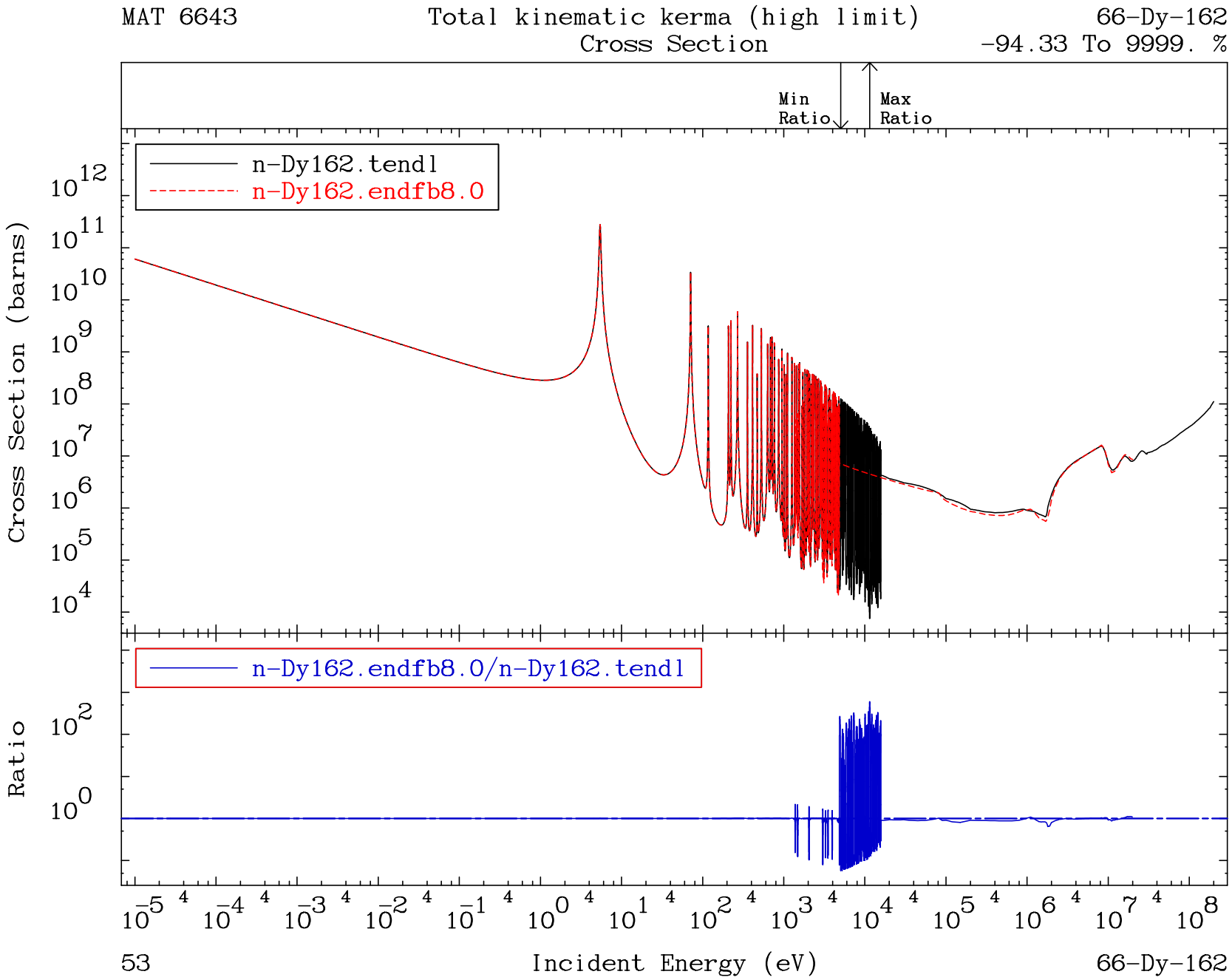

MAT 6643
Kerma non-elastic (all but mt2)
Cross Section
66-Dy-162
-94.33 To 9999. %
Min Ratio
Max Ratio
n-Dy162.tendl
n-Dy162.endfb8.0
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
48
66-Dy-162

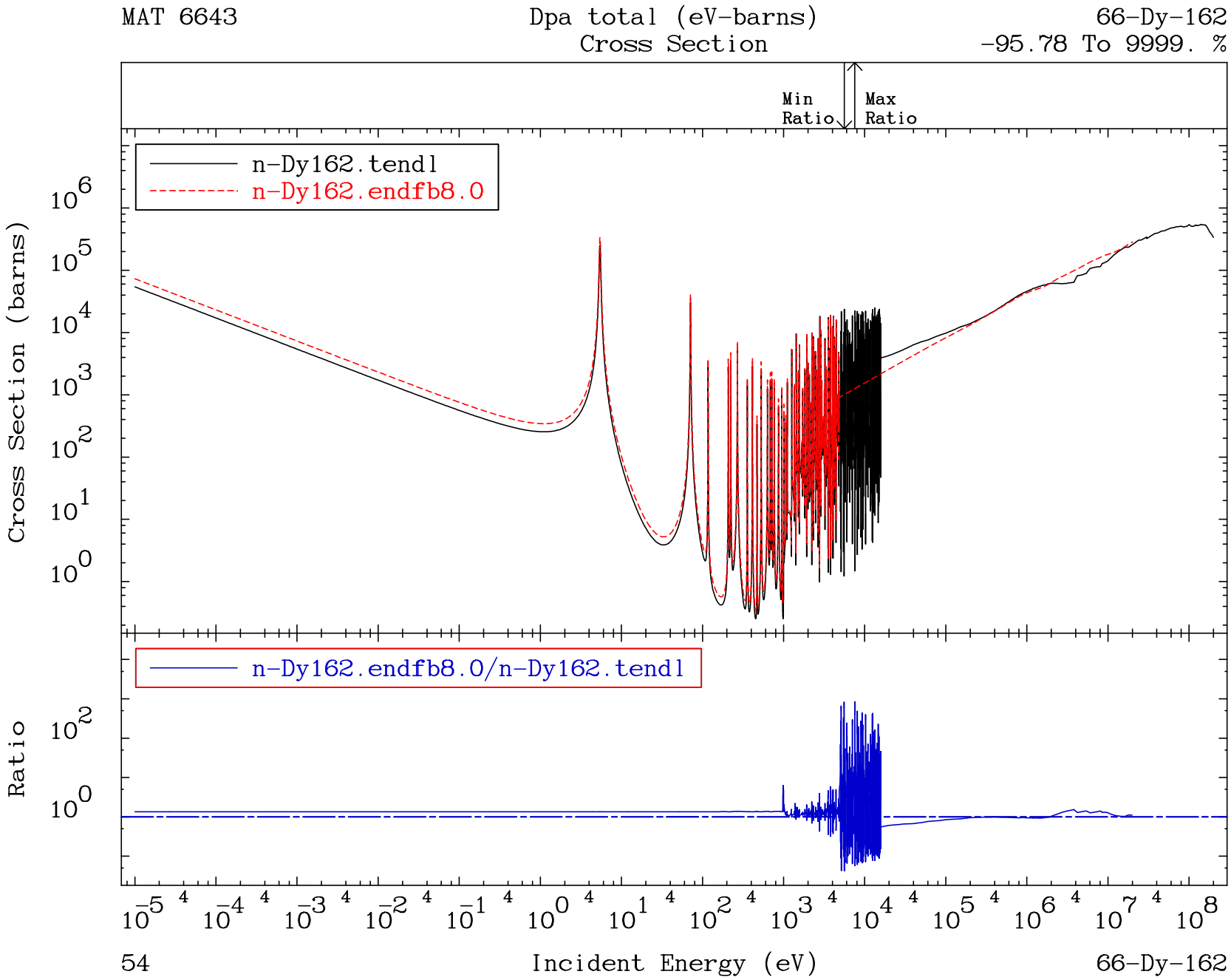

MAT 6643
Kerma inelastic (mt51-91)
Cross Section
66-Dy-162
-58.91 To 36.77 %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 90.000 keV
n-Dy162.endfb8.0 Threshold 81.163 keV
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
49
66-Dy-162

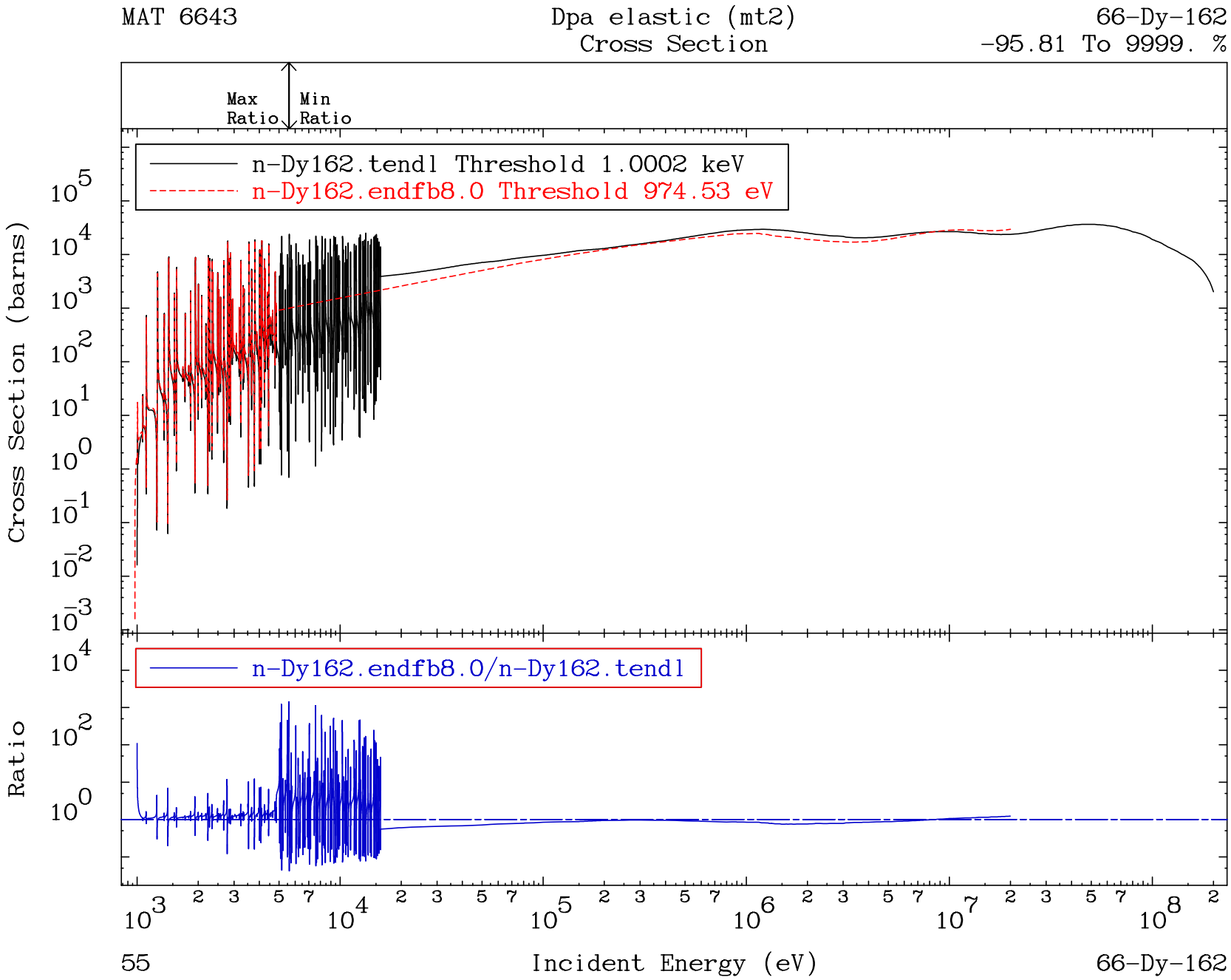

MAT 6643
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
66-Dy-162
-58.91 To 36.77 %
Max Ratio
Min Ratio
n-Dy162.tendl
n-Dy162.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
1.6
1.2
0.8
0.4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
50
Incident Energy (eV)
66-Dy-162

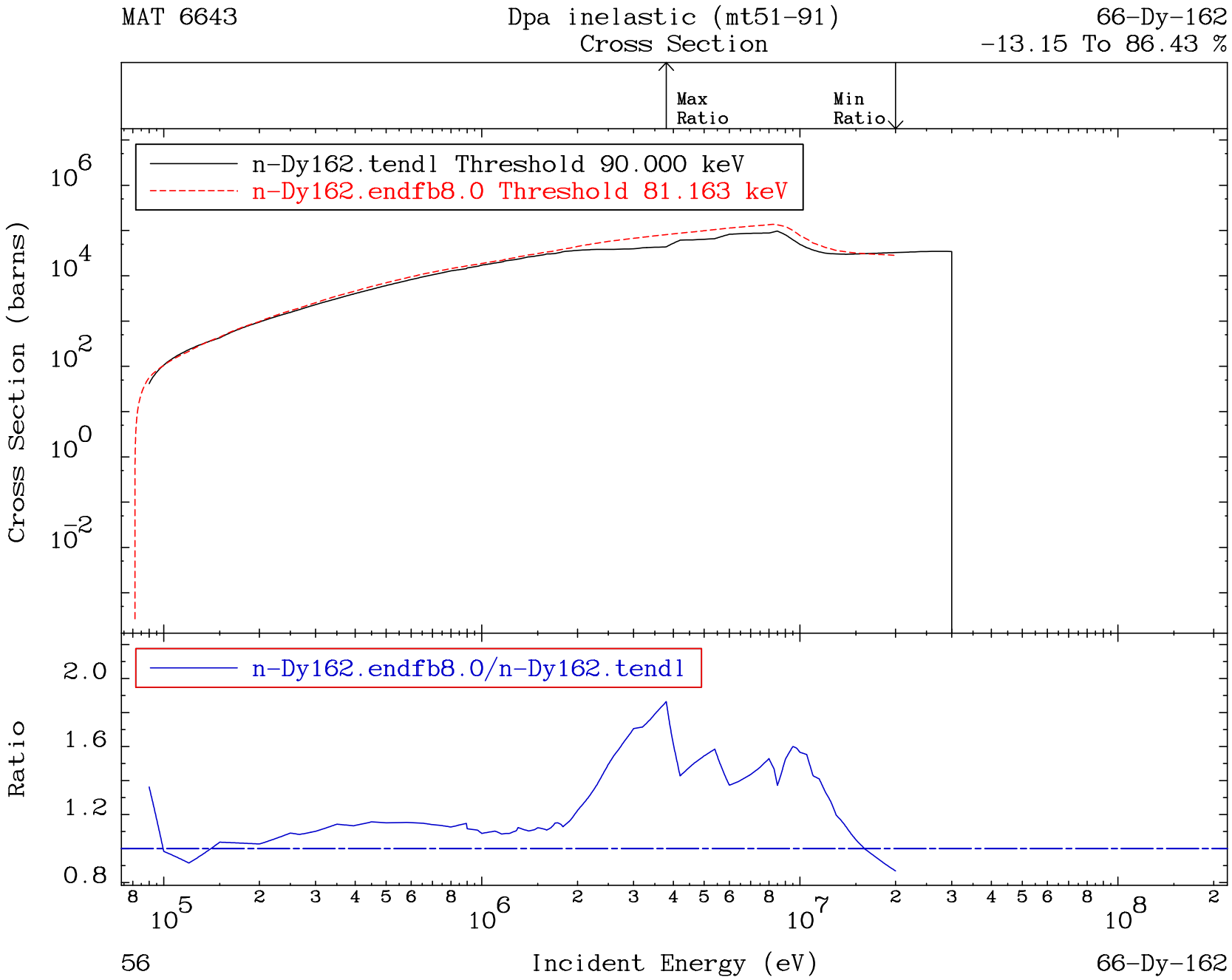

MAT 6643
Kerma capture (mt102)
Cross Section
66-Dy-162
-94.33 To 9999. %
Min Ratio
Max Ratio
n-Dy162.tendl
n-Dy162.endfb8.0
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
51
66-Dy-162

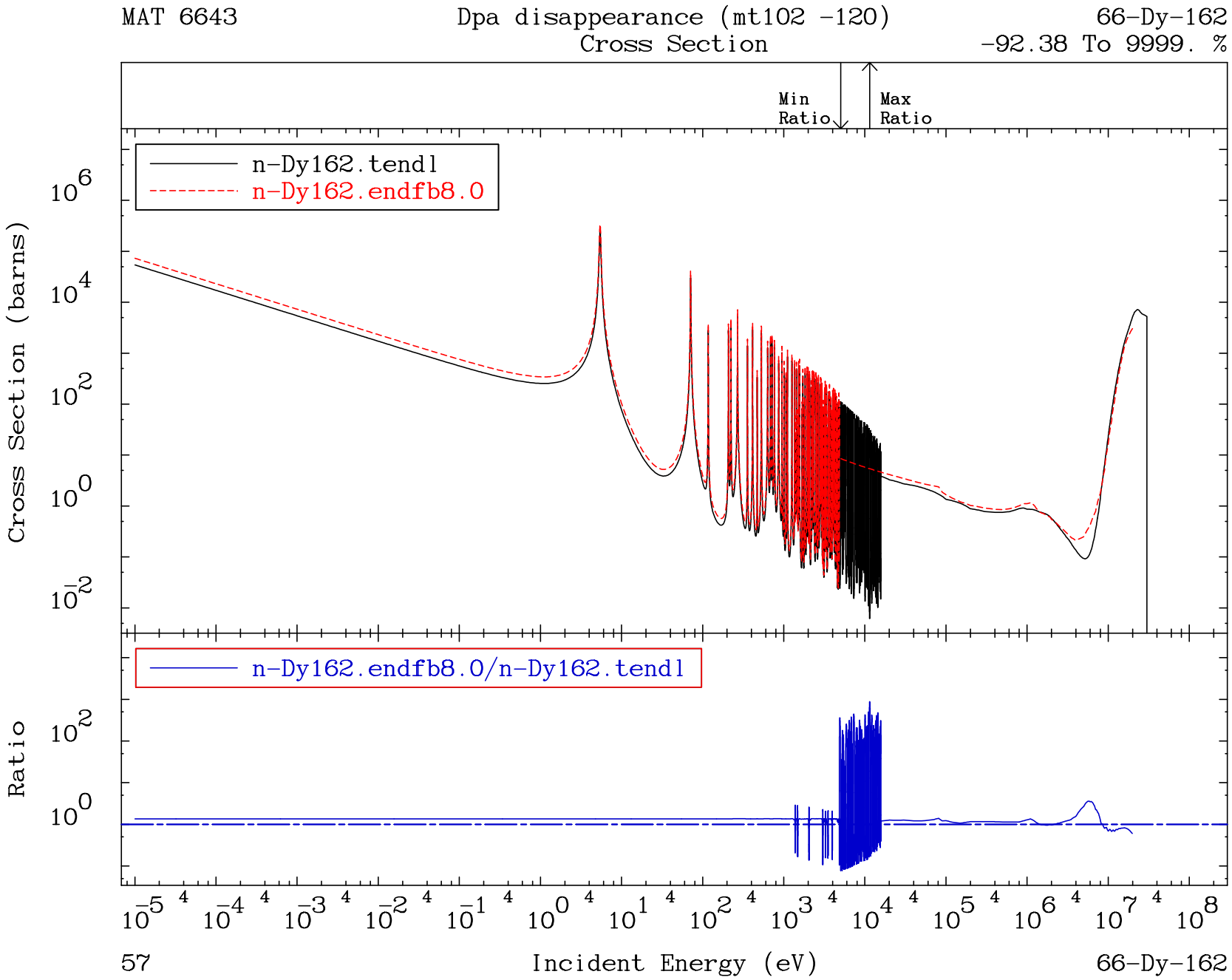

MAT 6643
Total photon (eV-barns)
Cross Section
66-Dy-162
-94.33 To 9999. %
Min Ratio
Max Ratio
n-Dy162.tendl
n-Dy162.endfb8.0
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
52
66-Dy-162


MAT 6643
Total kinematic kerma (high limit)
Cross Section
66-Dy-162
-94.33 To 9999. %
Min Ratio
Max Ratio
n-Dy162.tendl
n-Dy162.endfb8.0
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
53
66-Dy-162


MAT 6643
Dpa total (eV-barns)
Cross Section
66-Dy-162
-95.78 To 9999. %
Min Ratio
Max Ratio
n-Dy162.tendl
n-Dy162.endfb8.0
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
54
Incident Energy (eV)
66-Dy-162


MAT 6643
Dpa elastic (mt2)
Cross Section
66-Dy-162
-95.81 To 9999. %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 1.0002 keV
n-Dy162.endfb8.0 Threshold 974.53 eV
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
55
66-Dy-162


MAT 6643
Dpa inelastic (mt51-91)
Cross Section
66-Dy-162
-13.15 To 86.43 %
Max Ratio
Min Ratio
n-Dy162.tendl Threshold 90.000 keV
n-Dy162.endfb8.0 Threshold 81.163 keV
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
56
66-Dy-162


MAT 6643
Dpa disappearance (mt102 -120)
Cross Section
66-Dy-162
-92.38 To 9999. %
Min Ratio
Max Ratio
n-Dy162.tendl
n-Dy162.endfb8.0
Cross Section (barns)
n-Dy162.endfb8.0/n-Dy162.tendl
Ratio
Incident Energy (eV)
57
66-Dy-162