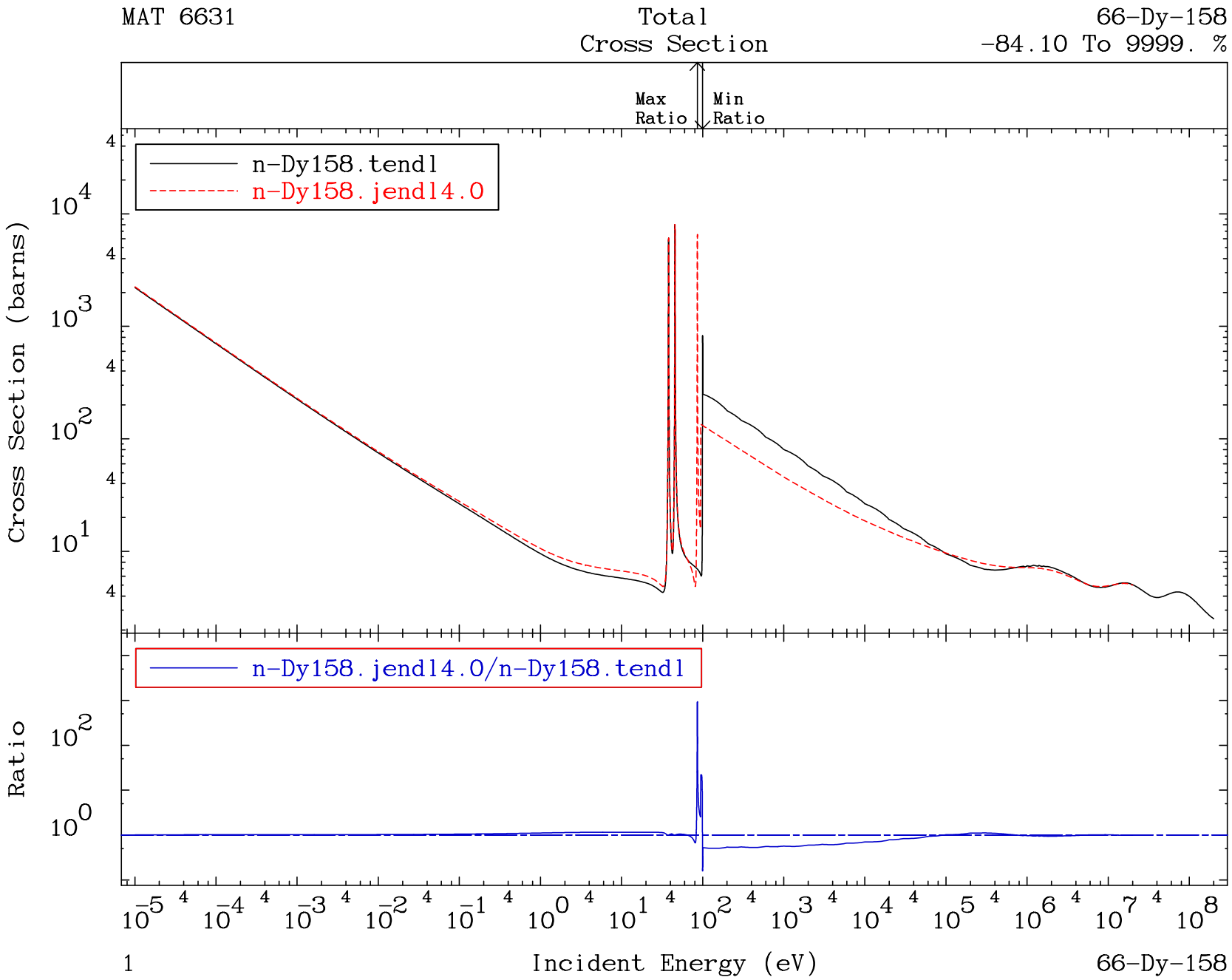
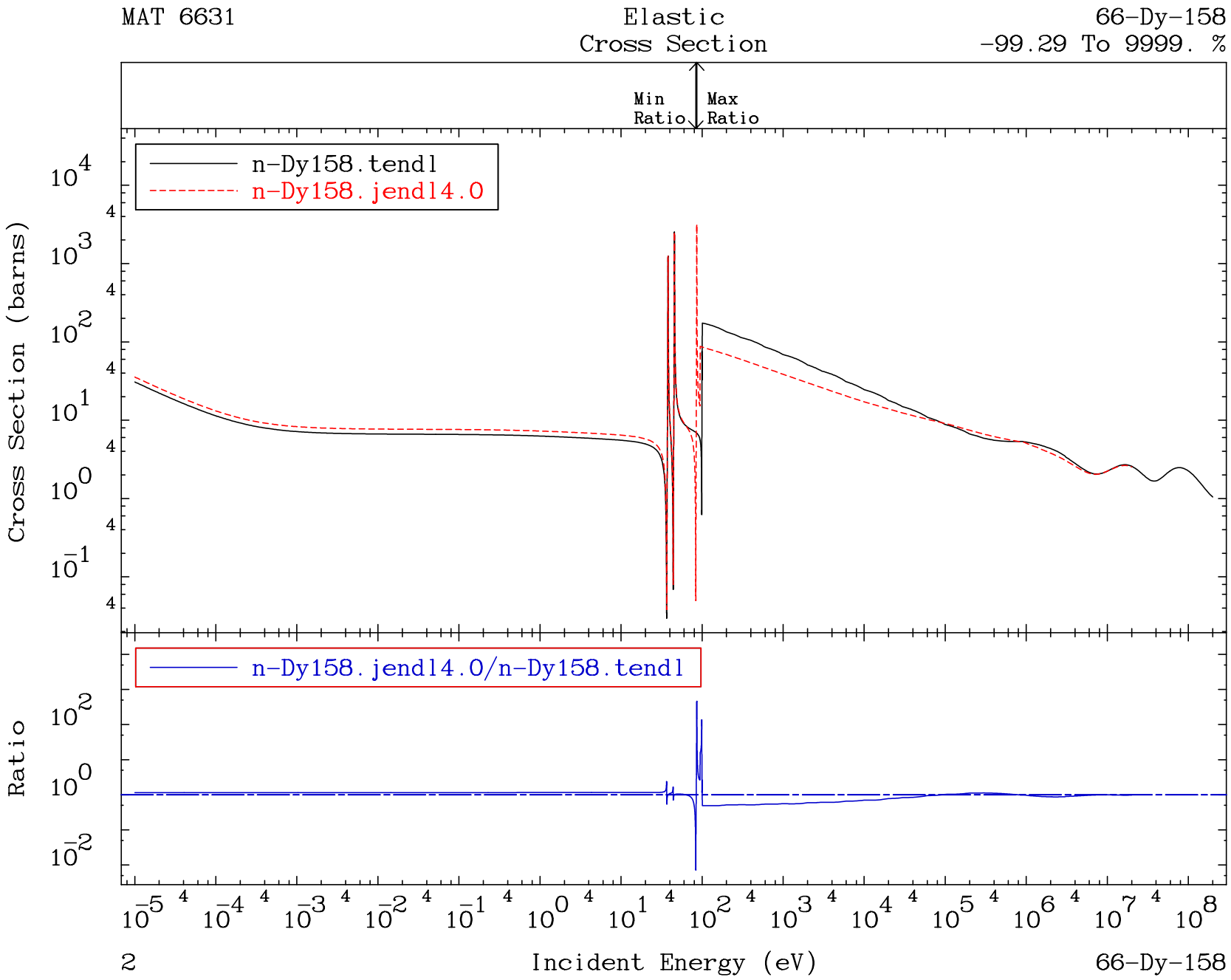
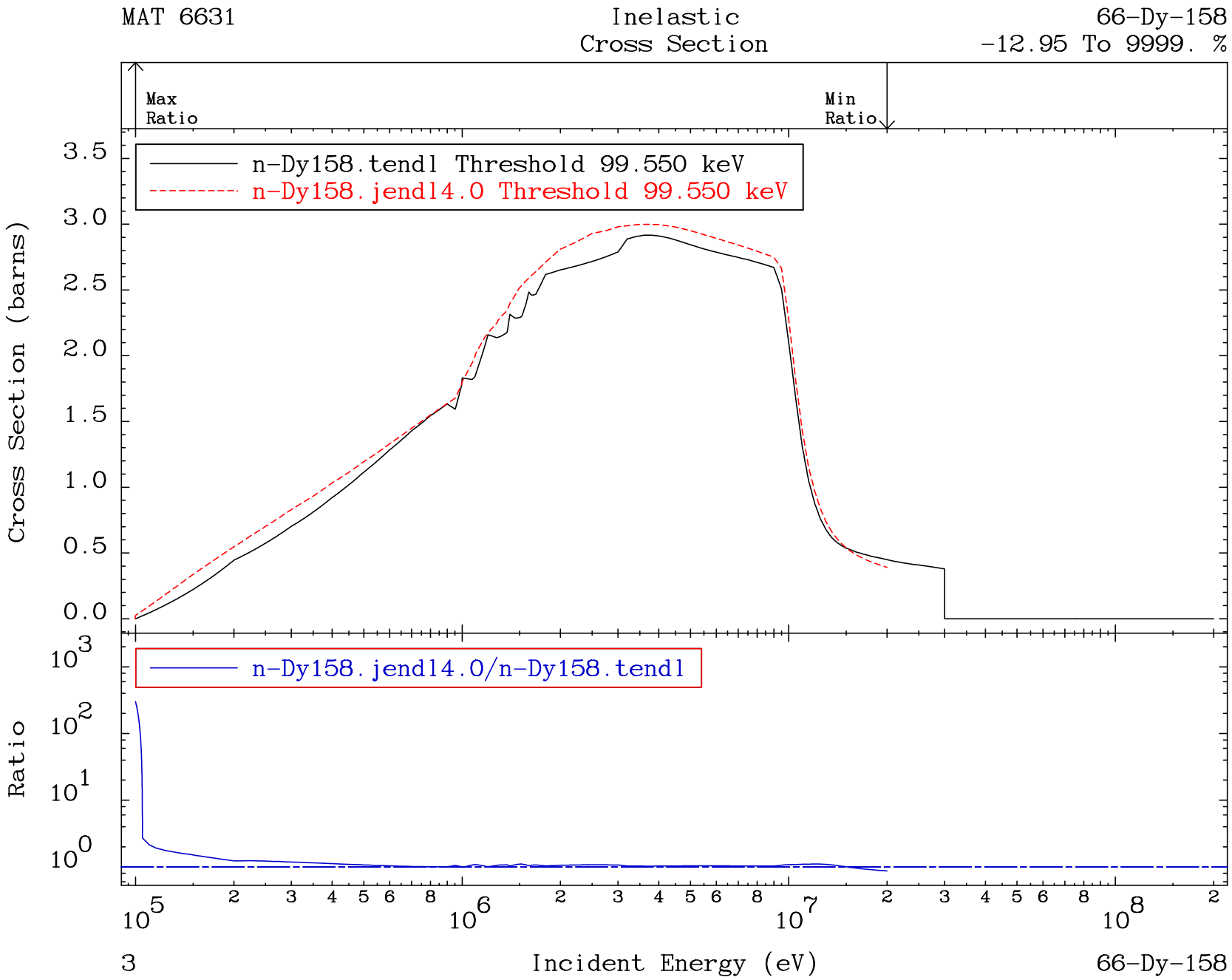
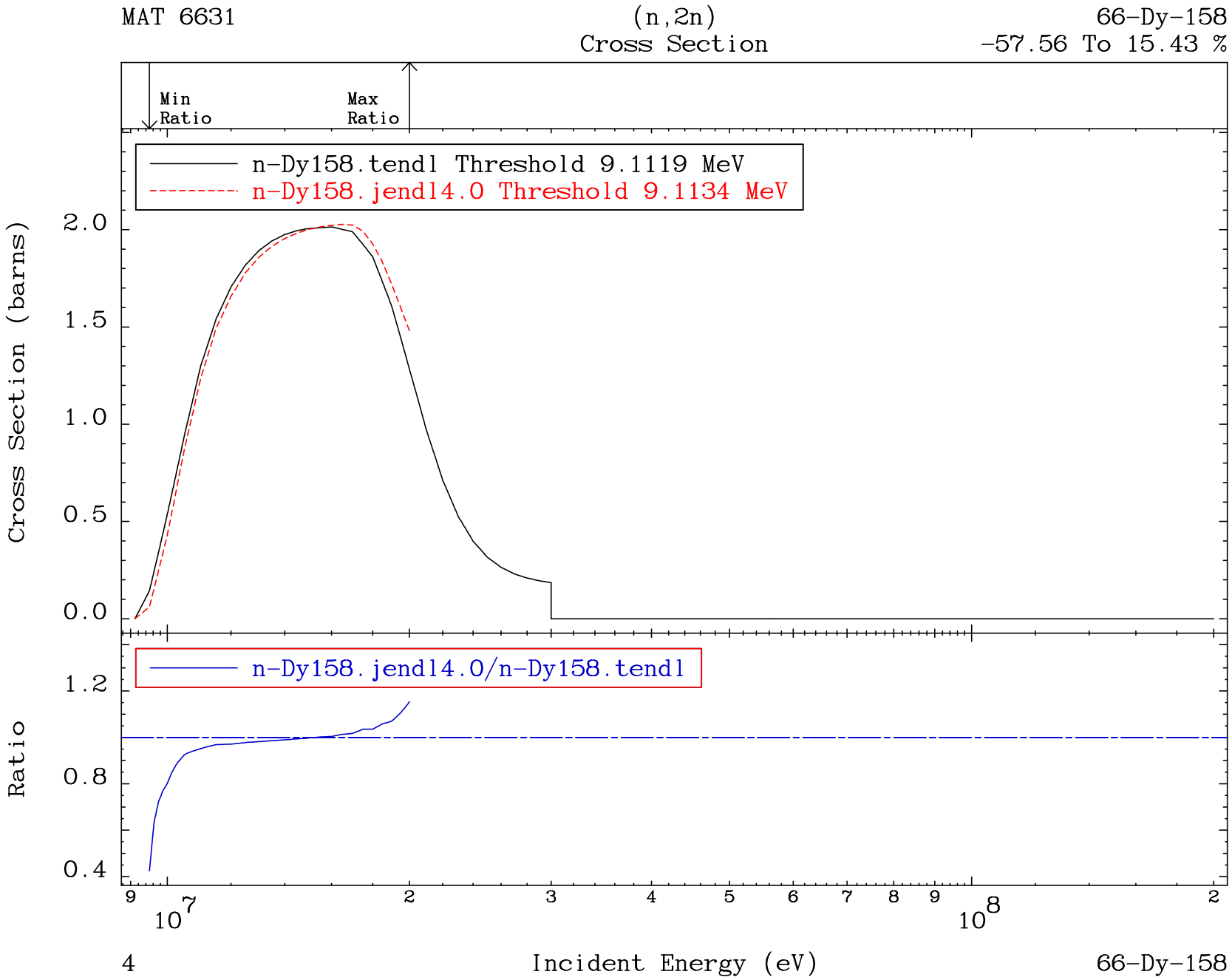
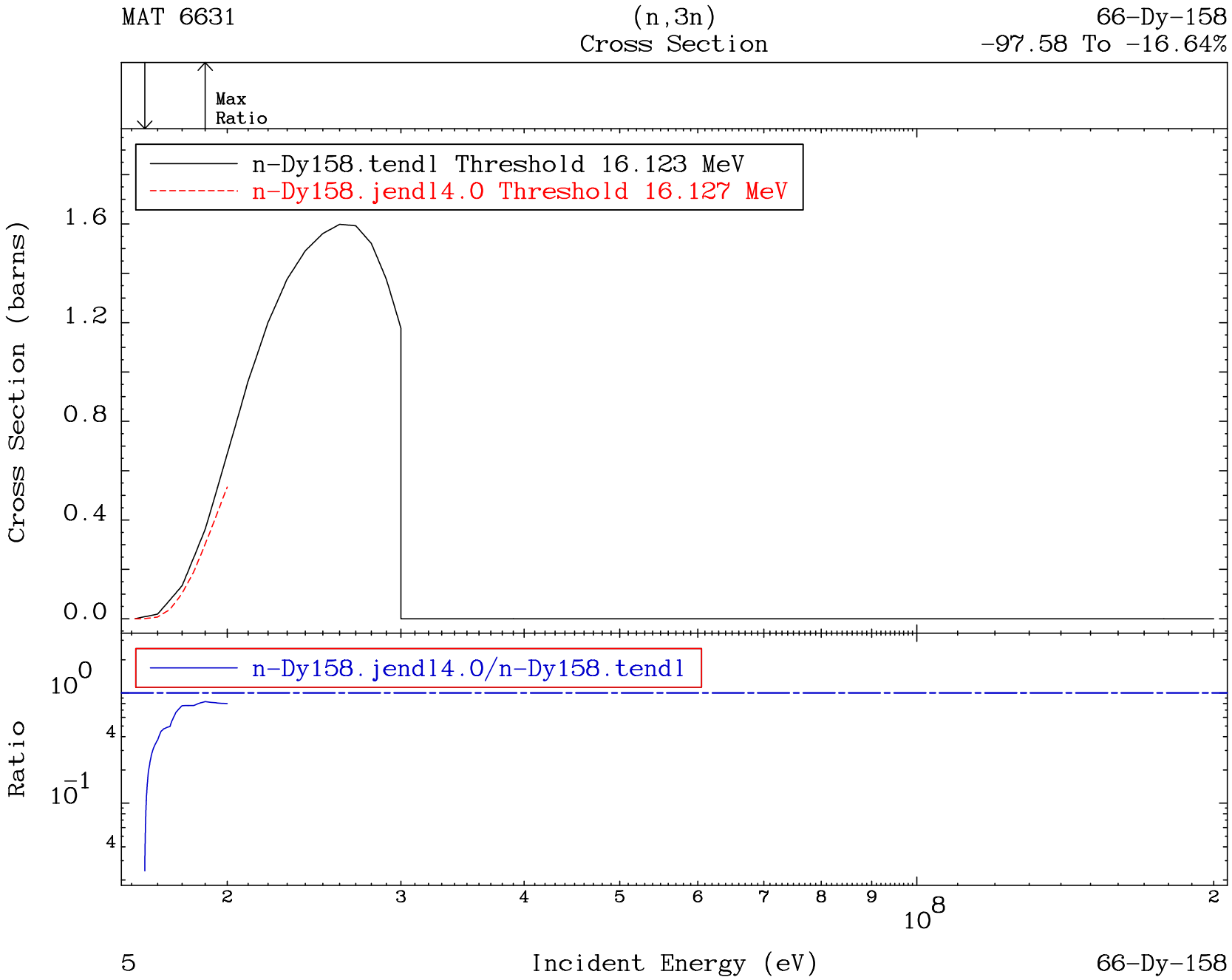
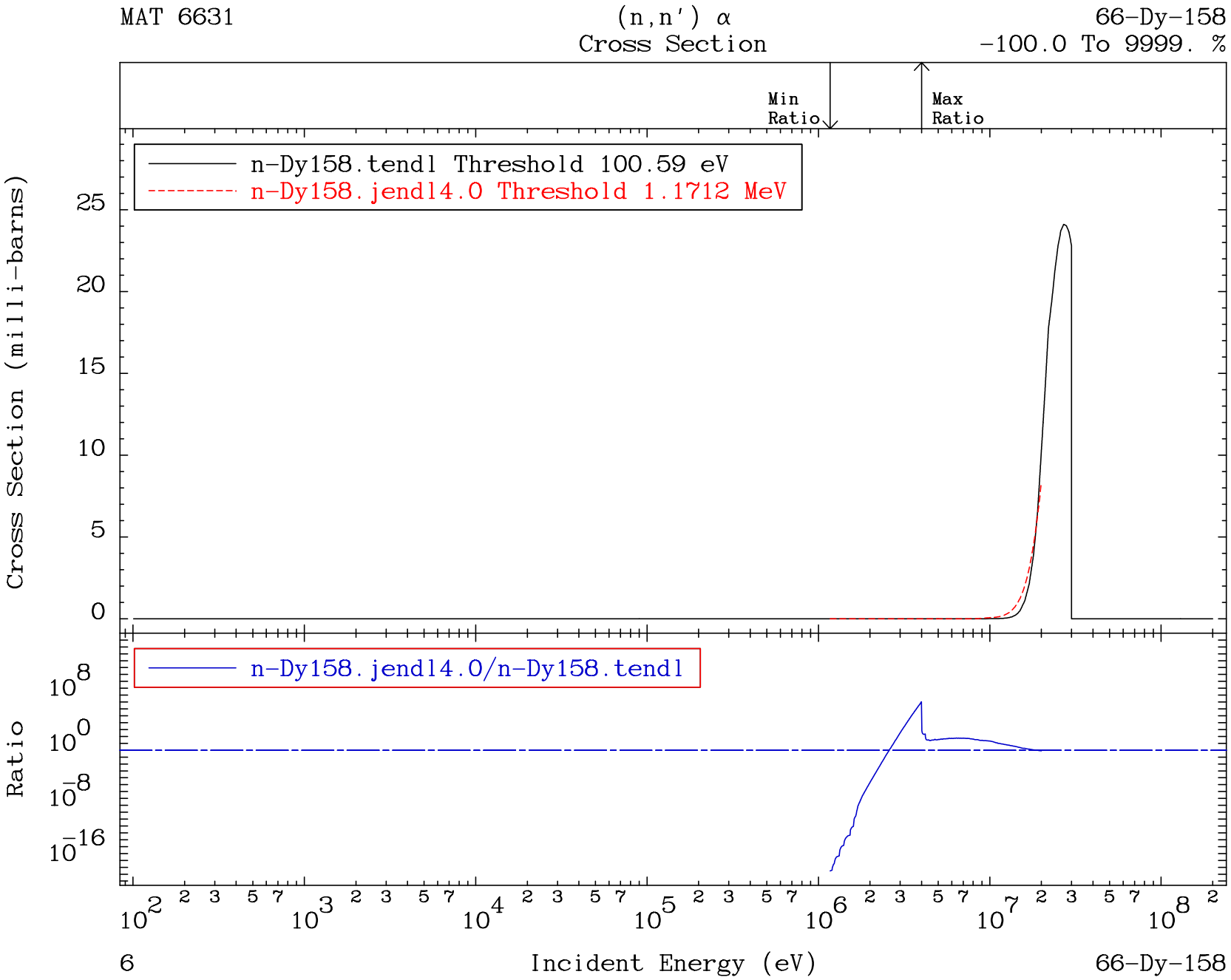

MAT 6631
Total
Cross Section
66-Dy-158
-84.10 To 9999. %
Max
Ratio
Min
Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
1
66-Dy-158

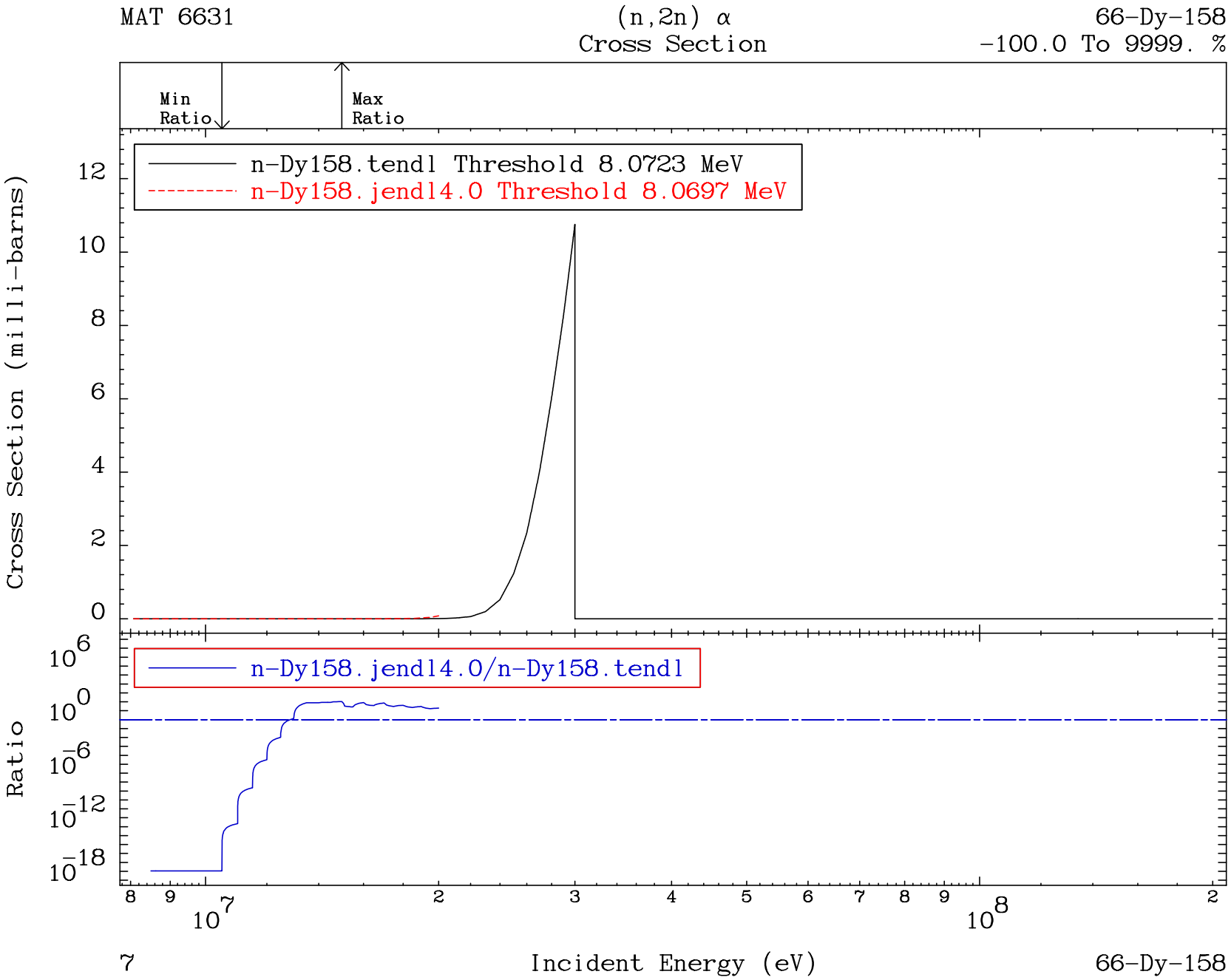

MAT 6631
Elastic
Cross Section
66-Dy-158
-99.29 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
2
66-Dy-158

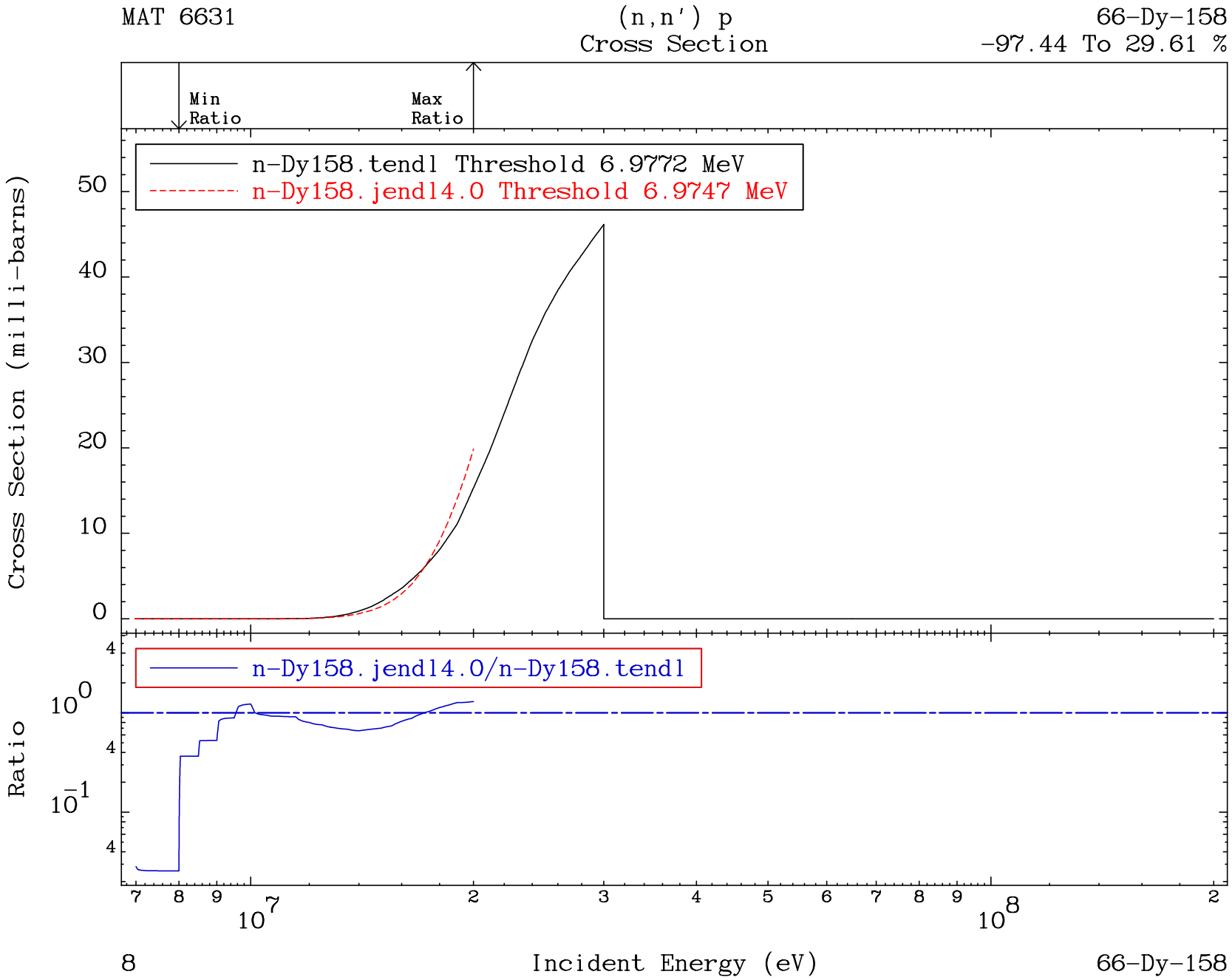

MAT 6631
Inelastic
Cross Section
66-Dy-158
-12.95 To 9999. %
Max
Ratio
Min
Ratio
n-Dy158.tendl Threshold 99.550 keV
n-Dy158.jendl4.0 Threshold 99.550 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^3
10^2
10^1
10^0
10^5
2 3 4 5 6 8
10^6
2 3 4 5 6 8
10^7
2 3 4 5 6 8
10^8
2
3
Incident Energy (eV)
66-Dy-158

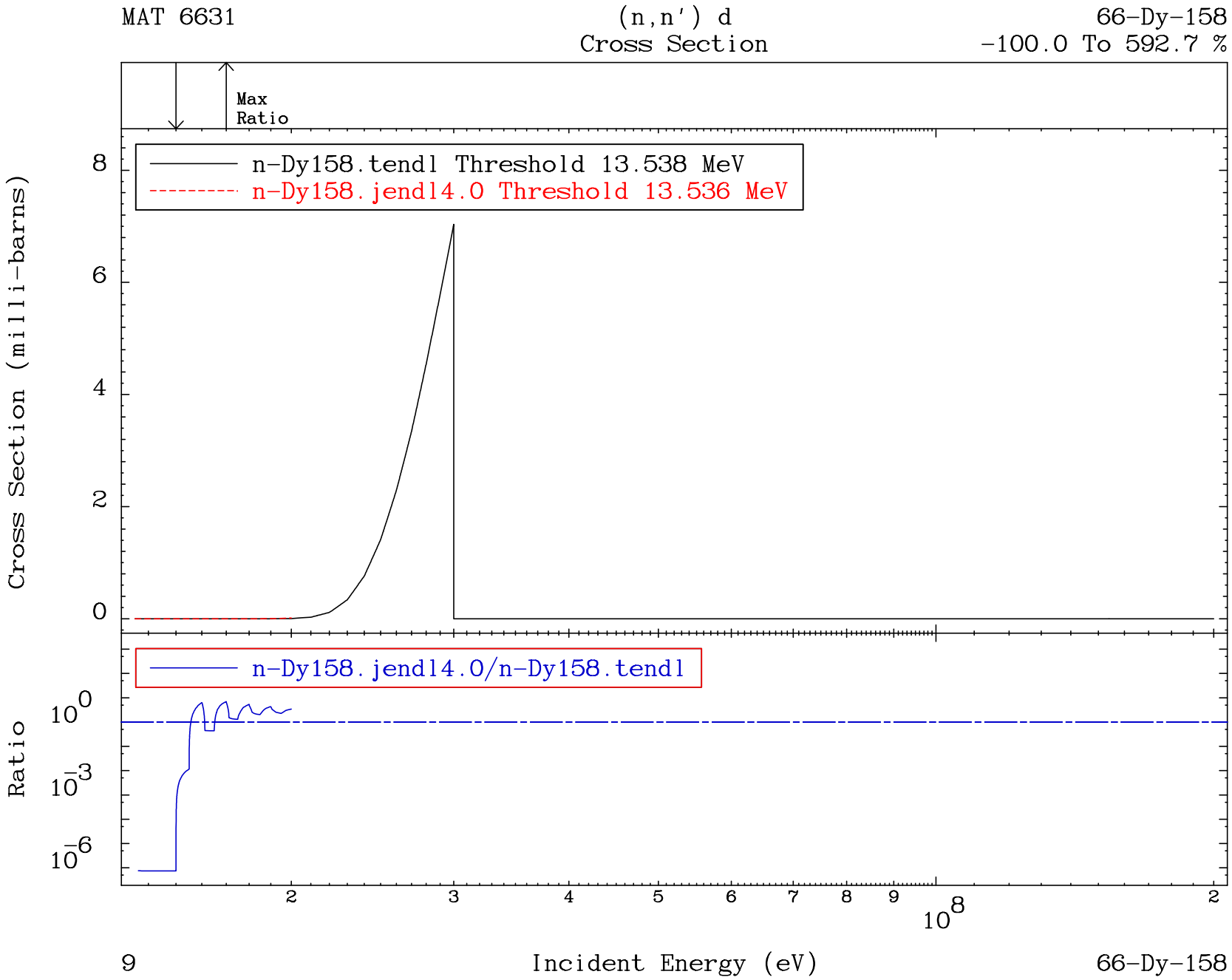

MAT 6631
(n,2n)
Cross Section
66-Dy-158
-57.56 To 15.43 %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 9.1119 MeV
n-Dy158.jendl4.0 Threshold 9.1134 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
1.2
0.8
0.4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
66-Dy-158

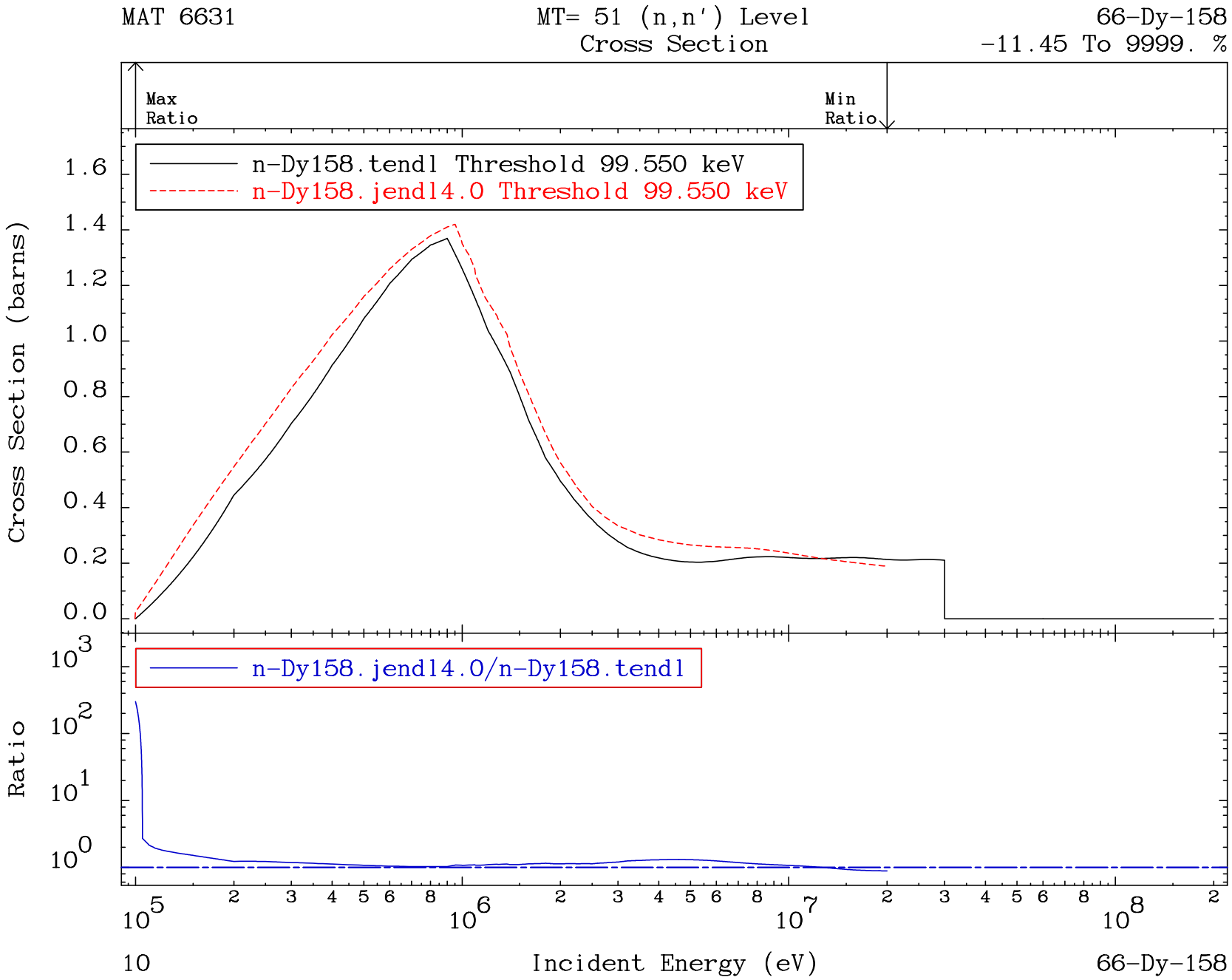

MAT 6631
(n,3n)
Cross Section
66-Dy-158
-97.58 To -16.64%
Max
Ratio
n-Dy158.tendl Threshold 16.123 MeV
n-Dy158.jendl4.0 Threshold 16.127 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^0
10^-1
4
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
66-Dy-158

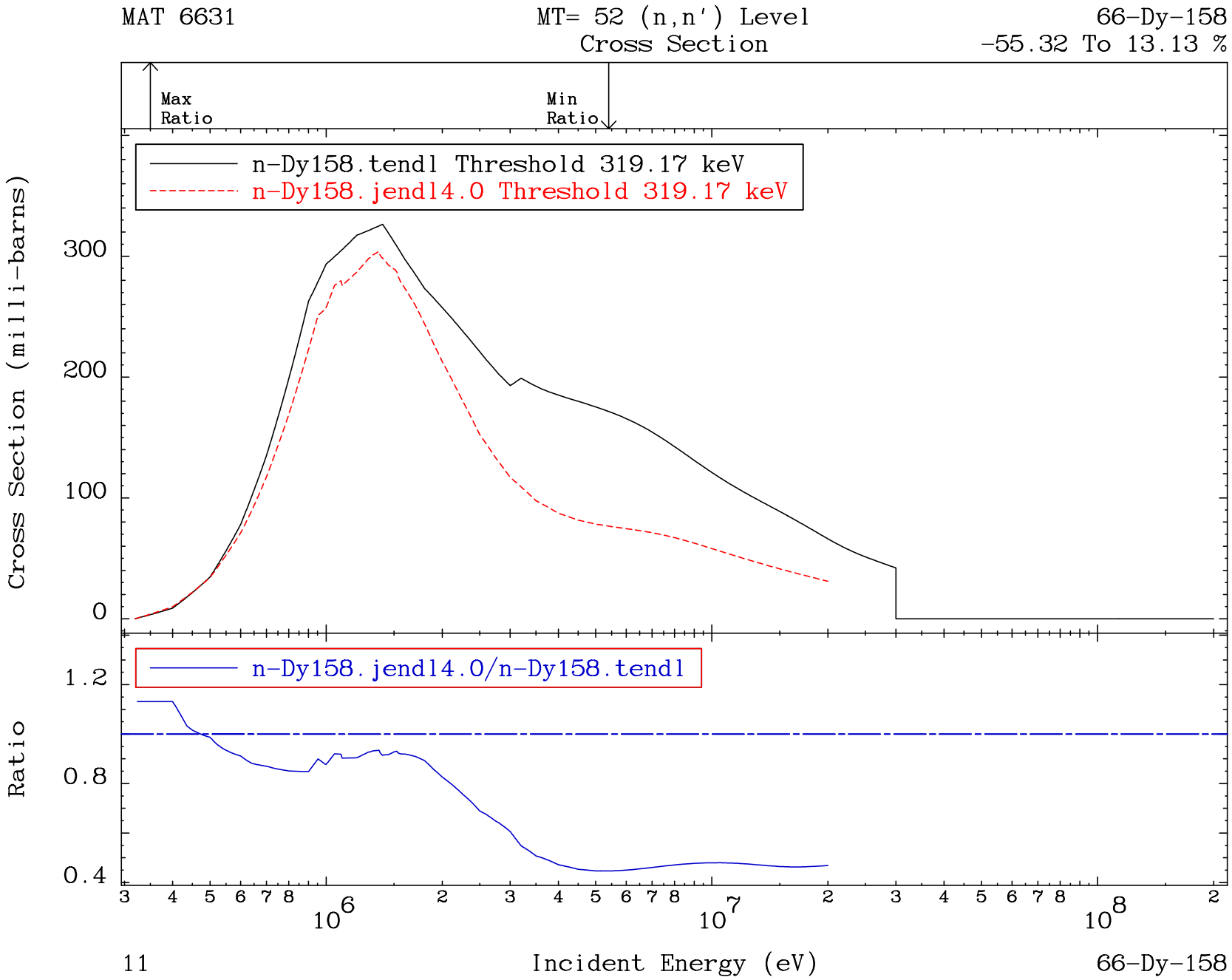

MAT 6631
(n,n') α
Cross Section
66-Dy-158
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 100.59 eV
n-Dy158.jendl4.0 Threshold 1.1712 MeV
Cross Section (milli-barns)
0
5
10
15
20
25
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^8
10^0
10^-8
10^-16
10^2 2 3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
6
Incident Energy (eV)
66-Dy-158

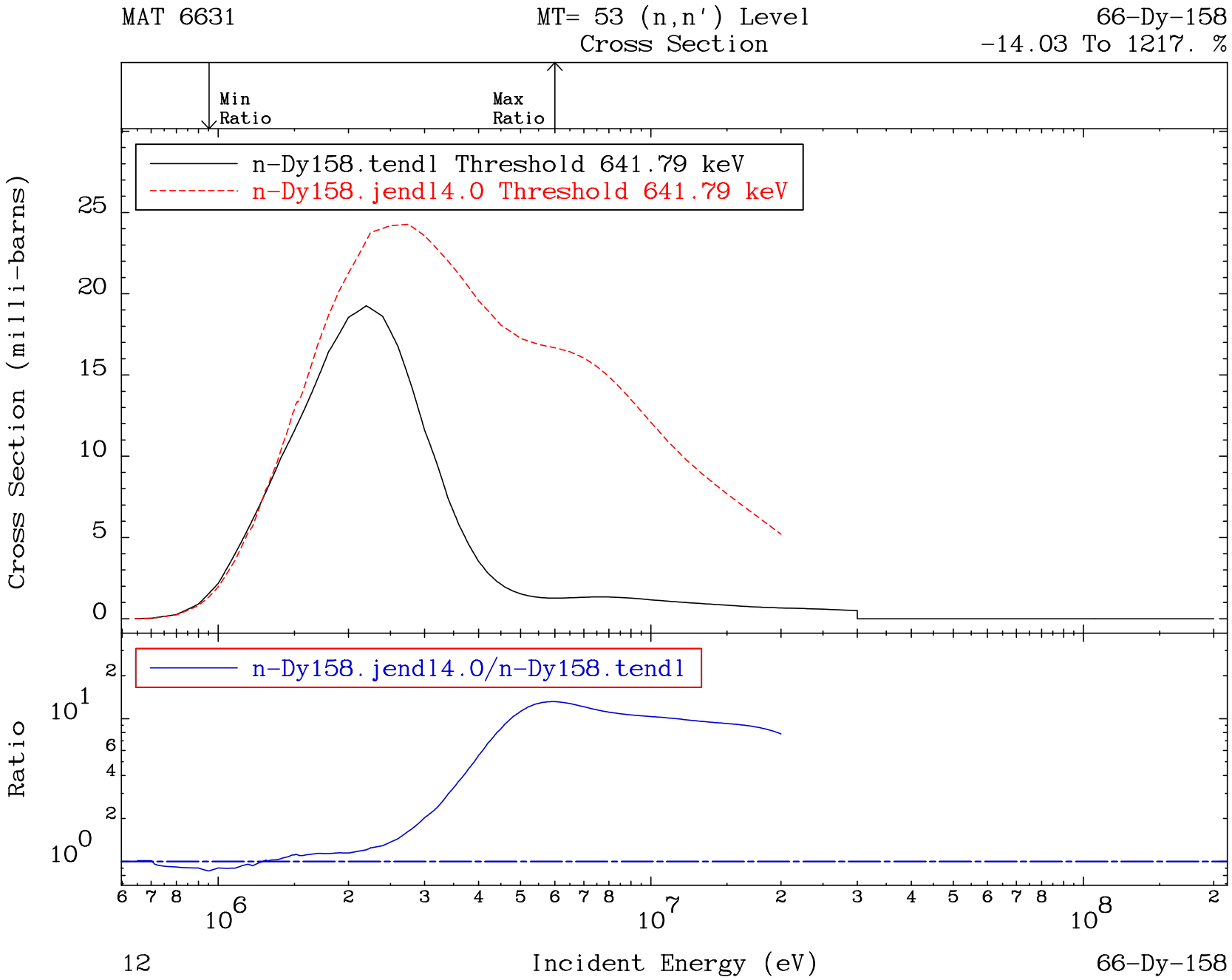

MAT 6631
(n,2n) α
Cross Section
66-Dy-158
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 8.0723 MeV
n-Dy158.jendl4.0 Threshold 8.0697 MeV
Cross Section (milli-barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
66-Dy-158

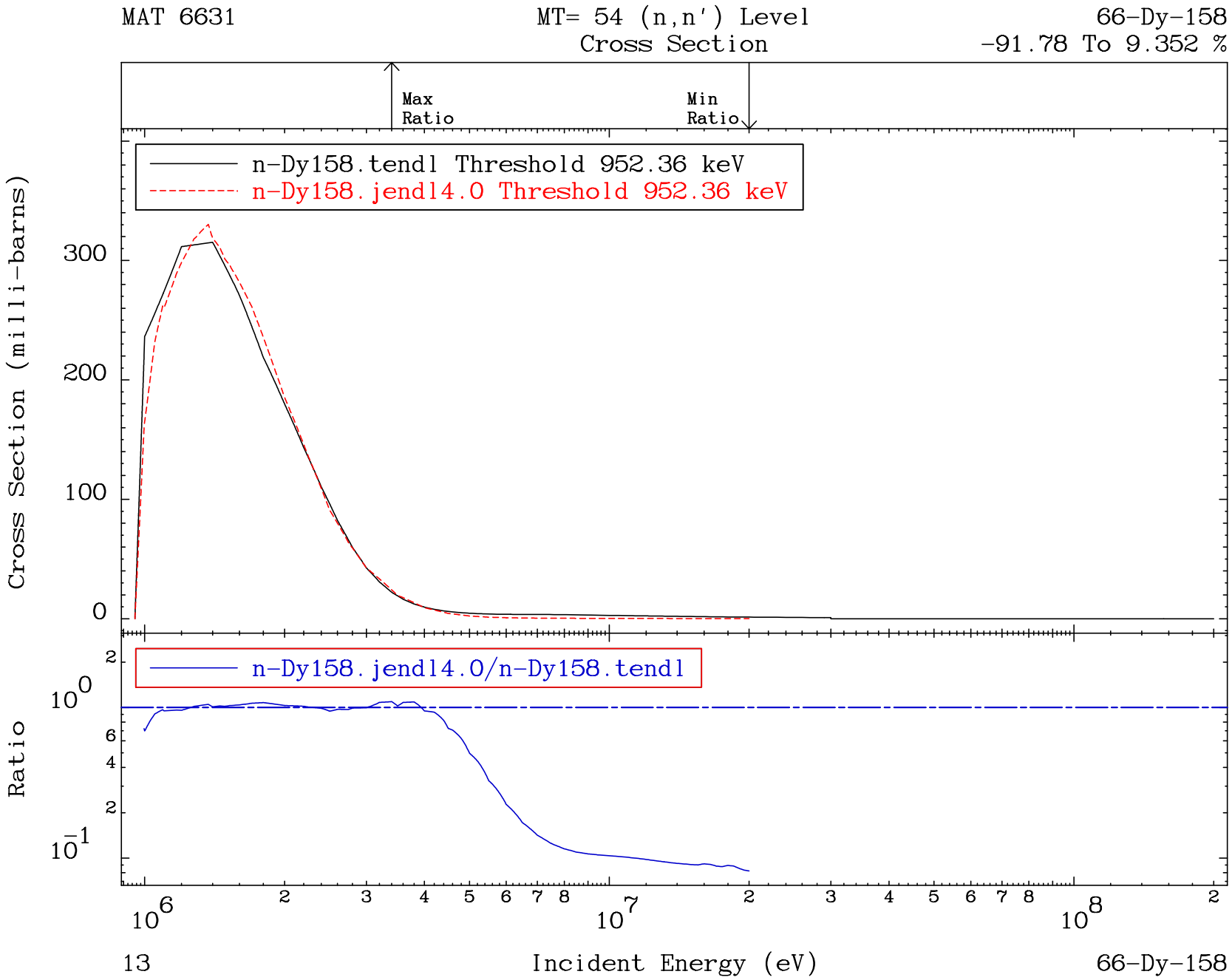

MAT 6631
(n,n') p
Cross Section
66-Dy-158
-97.44 To 29.61 %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 6.9772 MeV
n-Dy158.jendl4.0 Threshold 6.9747 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^0
10^-1
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
66-Dy-158

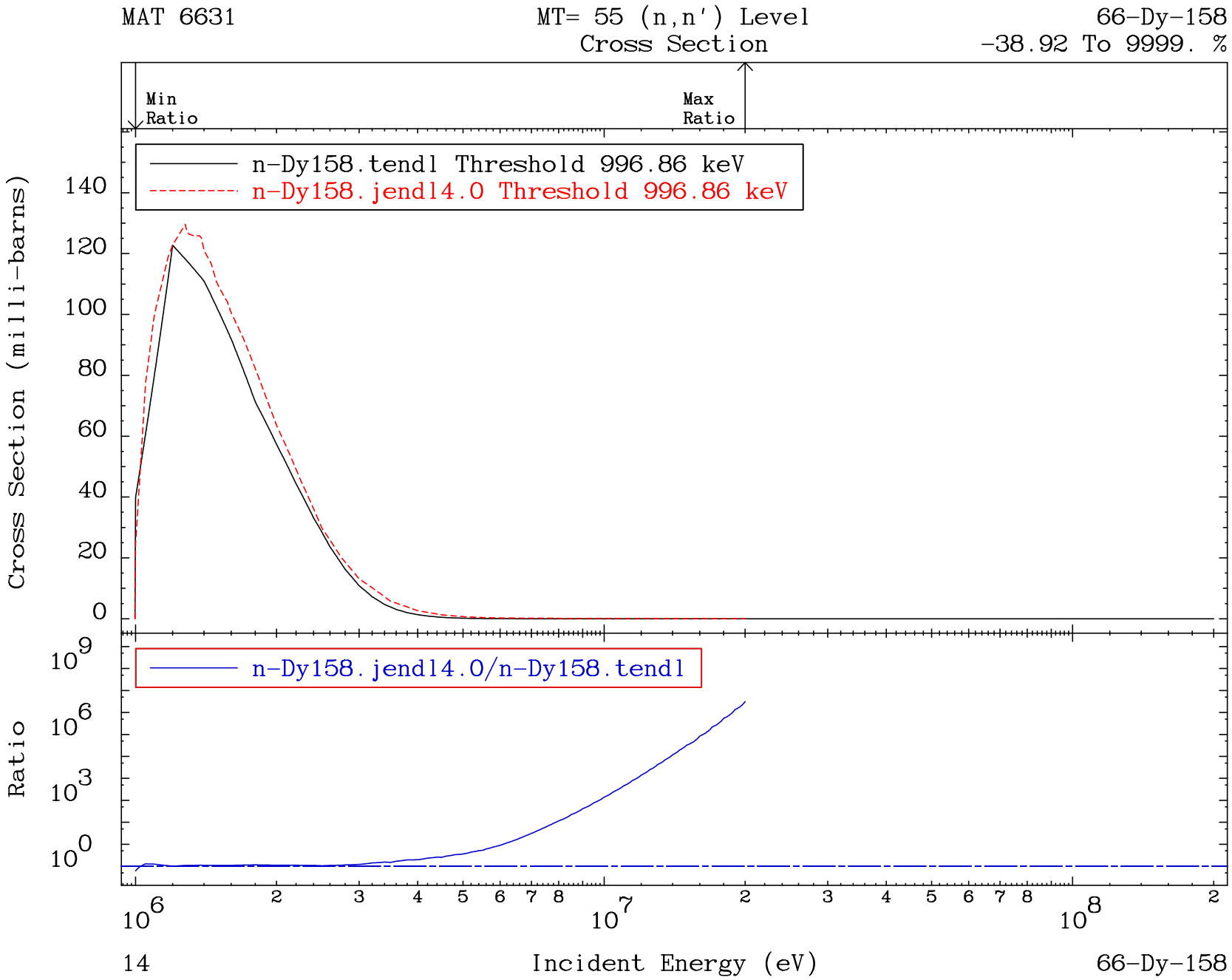

MAT 6631
(n,n') d
Cross Section
66-Dy-158
-100.0 To 592.7 %
Max
Ratio
n-Dy158.tendl Threshold 13.538 MeV
n-Dy158.jendl4.0 Threshold 13.536 MeV
Cross Section (milli-barns)
8
6
4
2
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
66-Dy-158

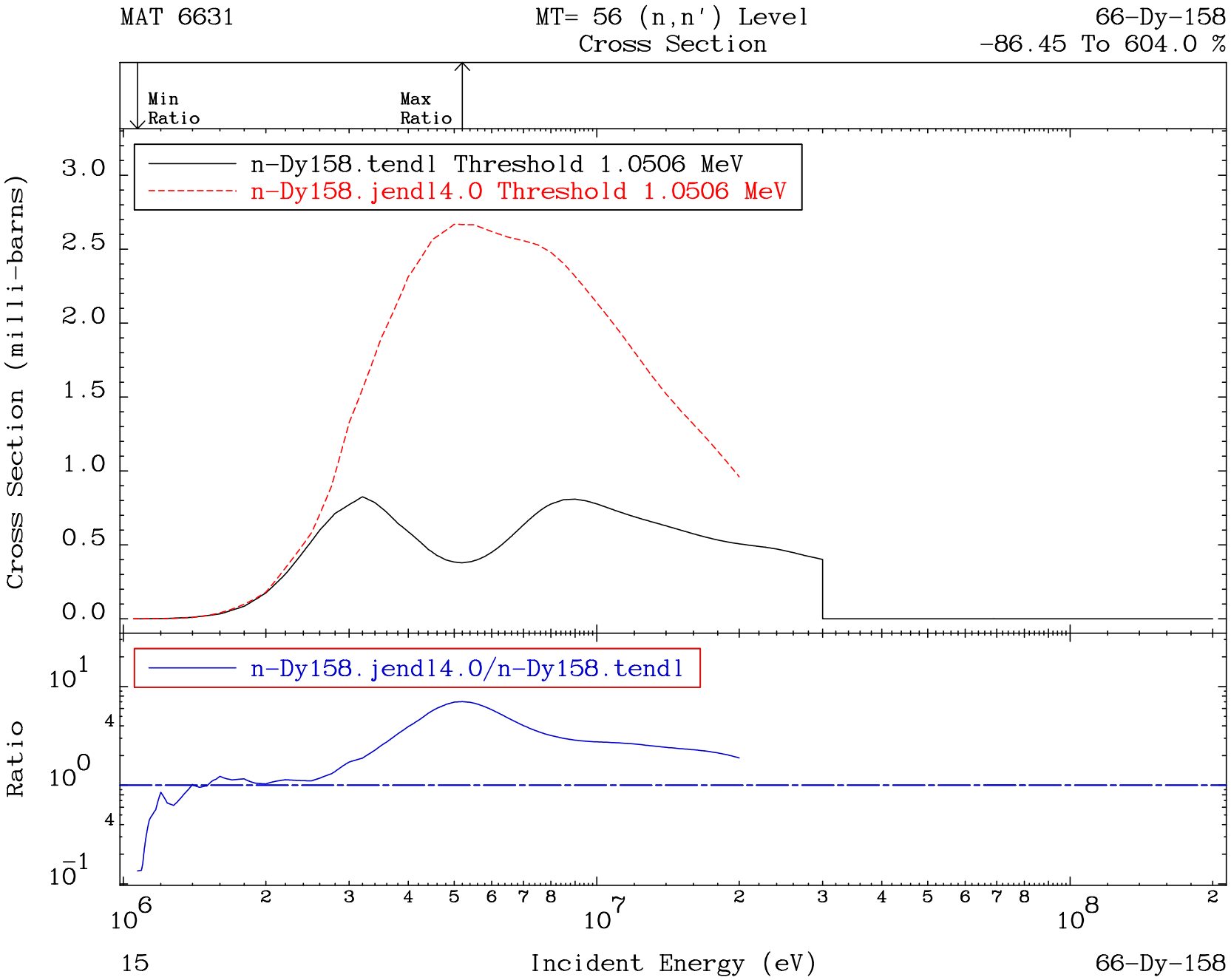

MAT 6631
MT= 51 (n,n') Level
Cross Section
66-Dy-158
-11.45 To 9999. %
Max
Ratio
Min
Ratio
n-Dy158.tendl Threshold 99.550 keV
n-Dy158.jendl4.0 Threshold 99.550 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^3
10^2
10^1
10^0
10^5
2 3 4 5 6 8
10^6
2 3 4 5 6 8
10^7
2 3 4 5 6 8
10^8
2
10
Incident Energy (eV)
66-Dy-158

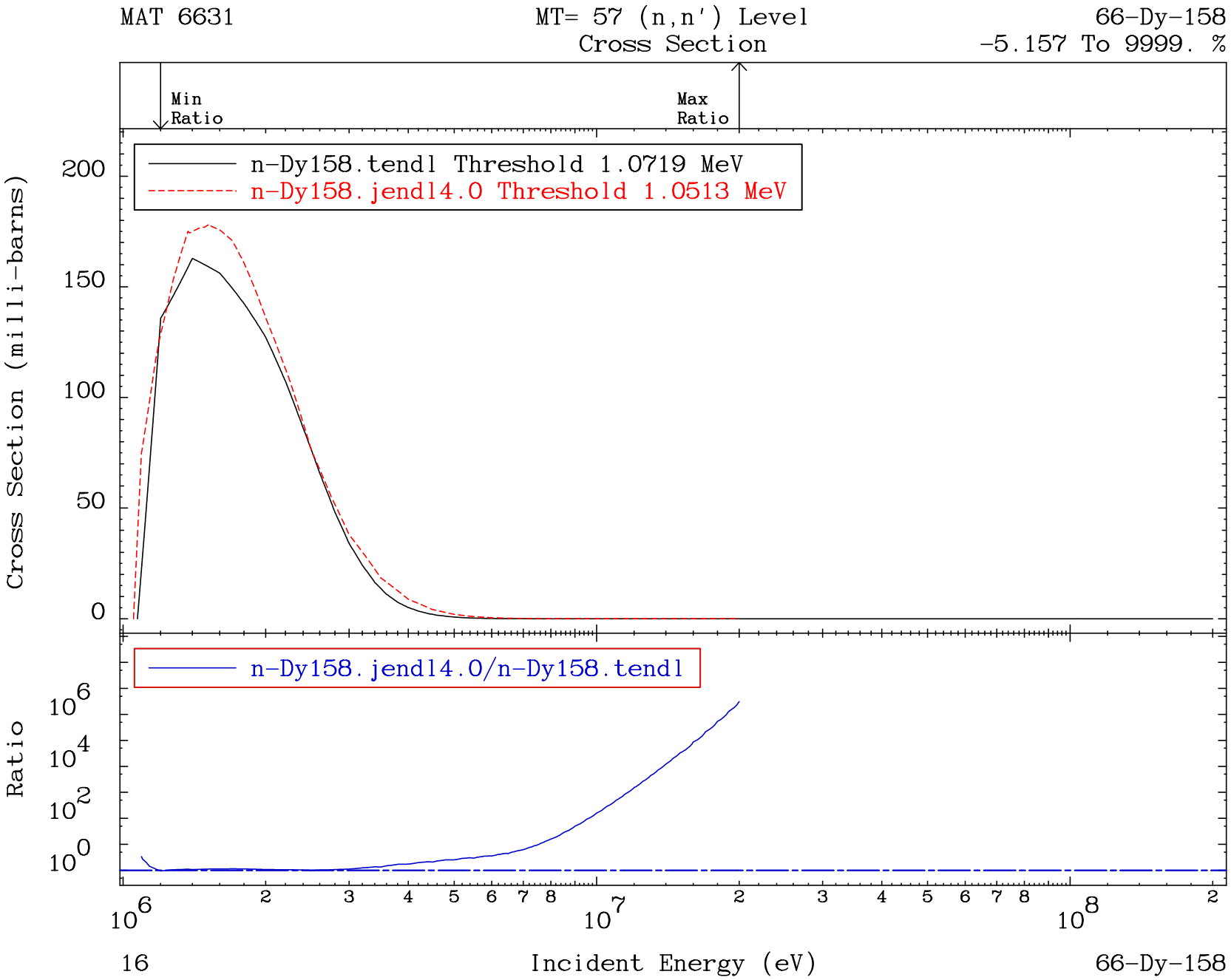

MAT 6631
MT= 52 (n,n') Level
Cross Section
66-Dy-158
-55.32 To 13.13 %
Max
Ratio
Min
Ratio
n-Dy158.tendl Threshold 319.17 keV
n-Dy158.jendl4.0 Threshold 319.17 keV
Cross Section (milli-barns)
300
200
100
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
66-Dy-158

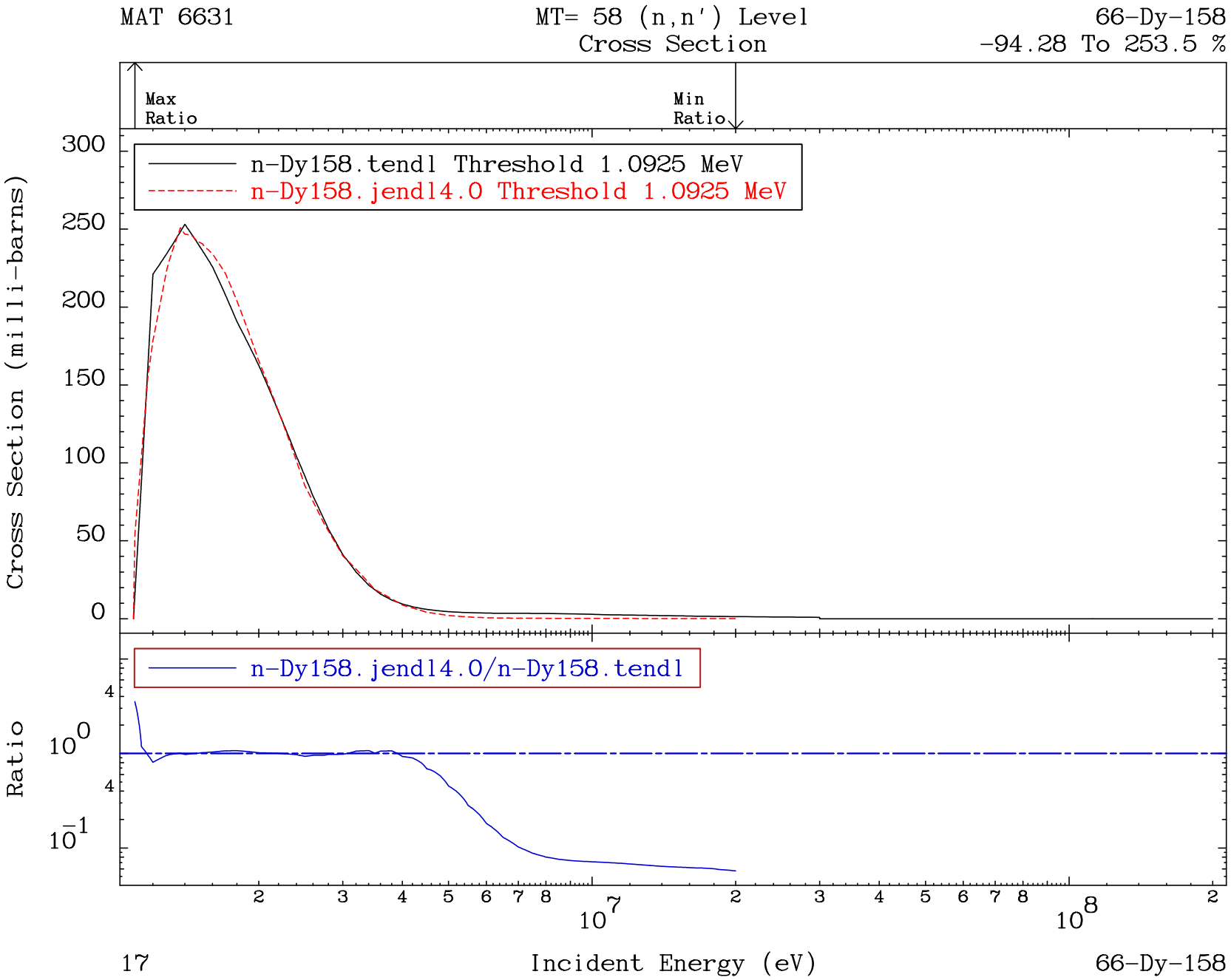

MAT 6631
MT= 53 (n,n') Level
Cross Section
66-Dy-158
-14.03 To 1217. %
Min
Ratio
Max
Ratio
n-Dy158.tendl Threshold 641.79 keV
n-Dy158.jendl4.0 Threshold 641.79 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
2
10^1
6
4
2
10^0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
66-Dy-158

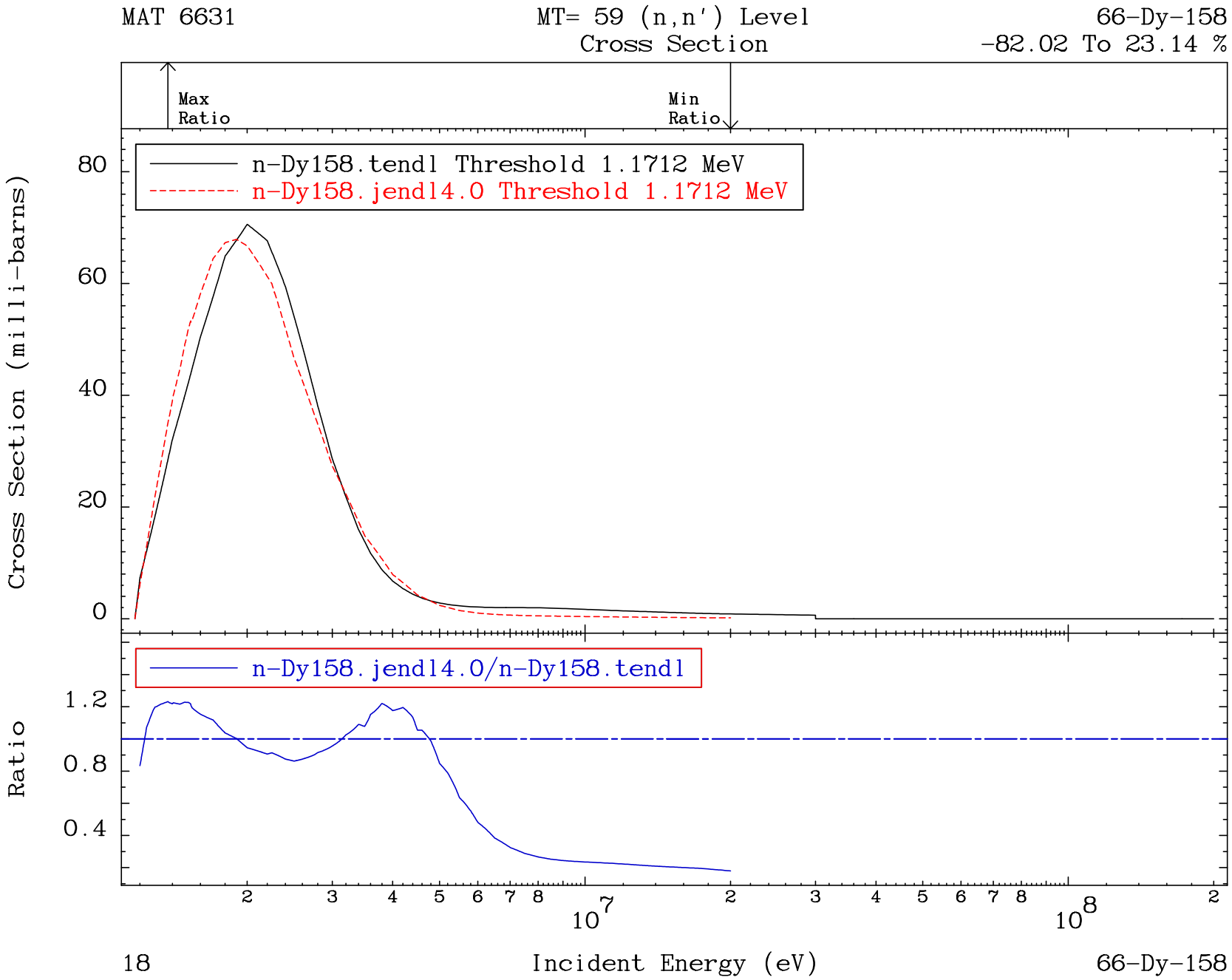

MAT 6631
MT= 54 (n,n') Level
Cross Section
66-Dy-158
-91.78 To 9.352 %
Max
Ratio
Min
Ratio
n-Dy158.tendl Threshold 952.36 keV
n-Dy158.jendl4.0 Threshold 952.36 keV
Cross Section (milli-barns)
300
200
100
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
2
10^0
6
4
2
10^-1
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
66-Dy-158

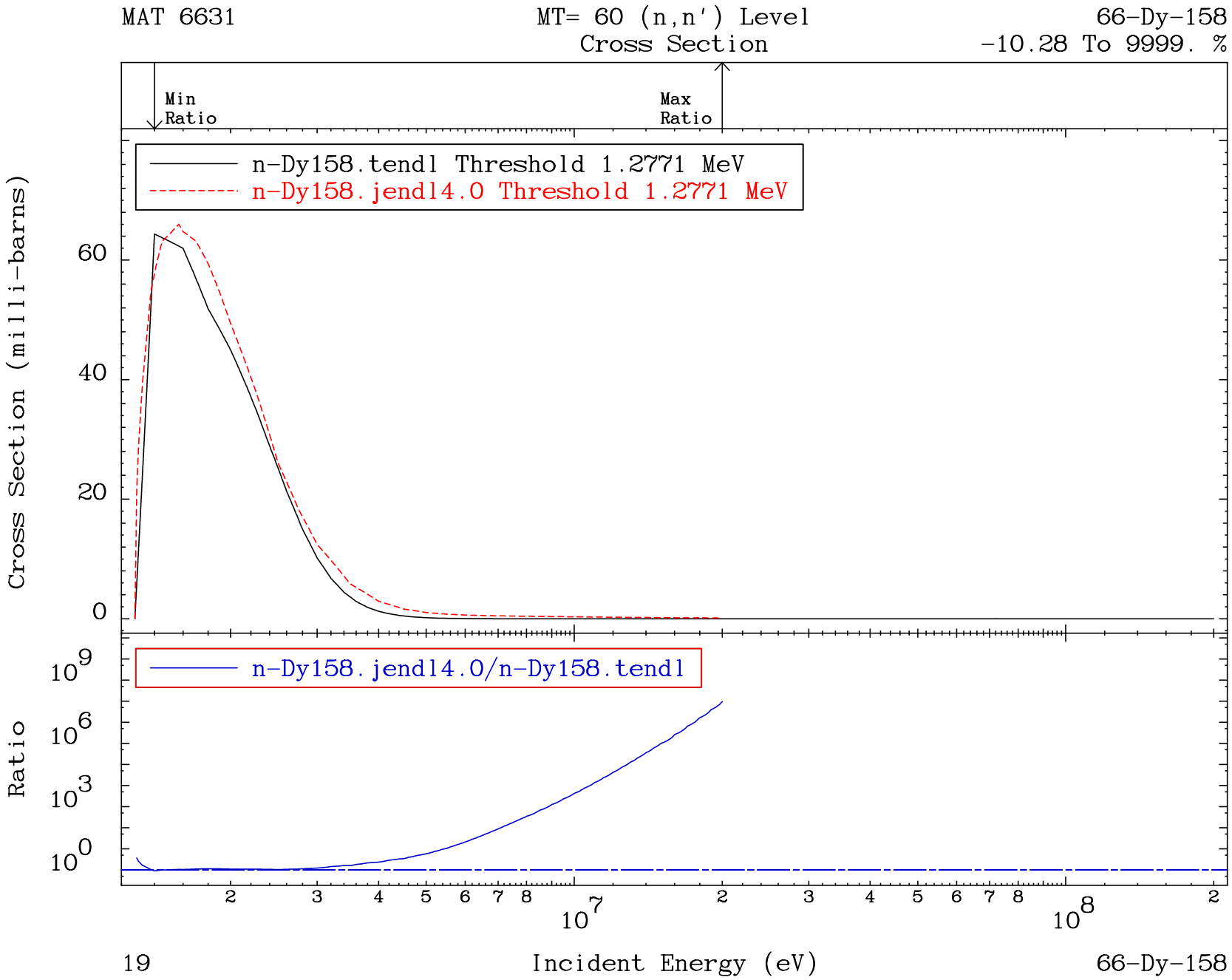

MAT 6631
MT= 55 (n,n') Level
Cross Section
66-Dy-158
-38.92 To 9999. %
Min
Ratio
Max
Ratio
n-Dy158.tendl Threshold 996.86 keV
n-Dy158.jendl4.0 Threshold 996.86 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^9
10^6
10^3
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
66-Dy-158

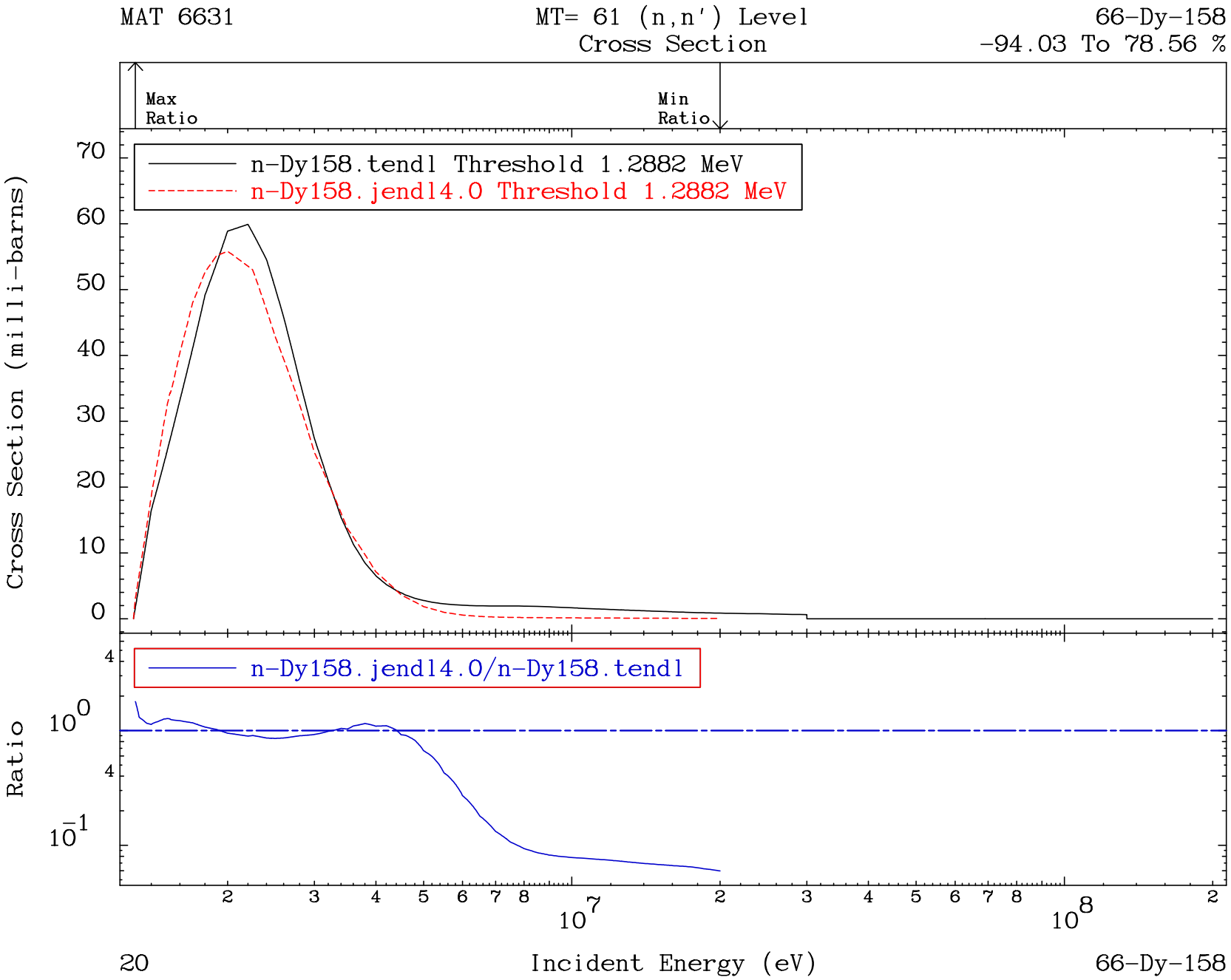

MAT 6631
MT= 56 (n,n') Level
Cross Section
66-Dy-158
-86.45 To 604.0 %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 1.0506 MeV
n-Dy158.jendl4.0 Threshold 1.0506 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^1
4
10^0
4
10^-1
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
66-Dy-158

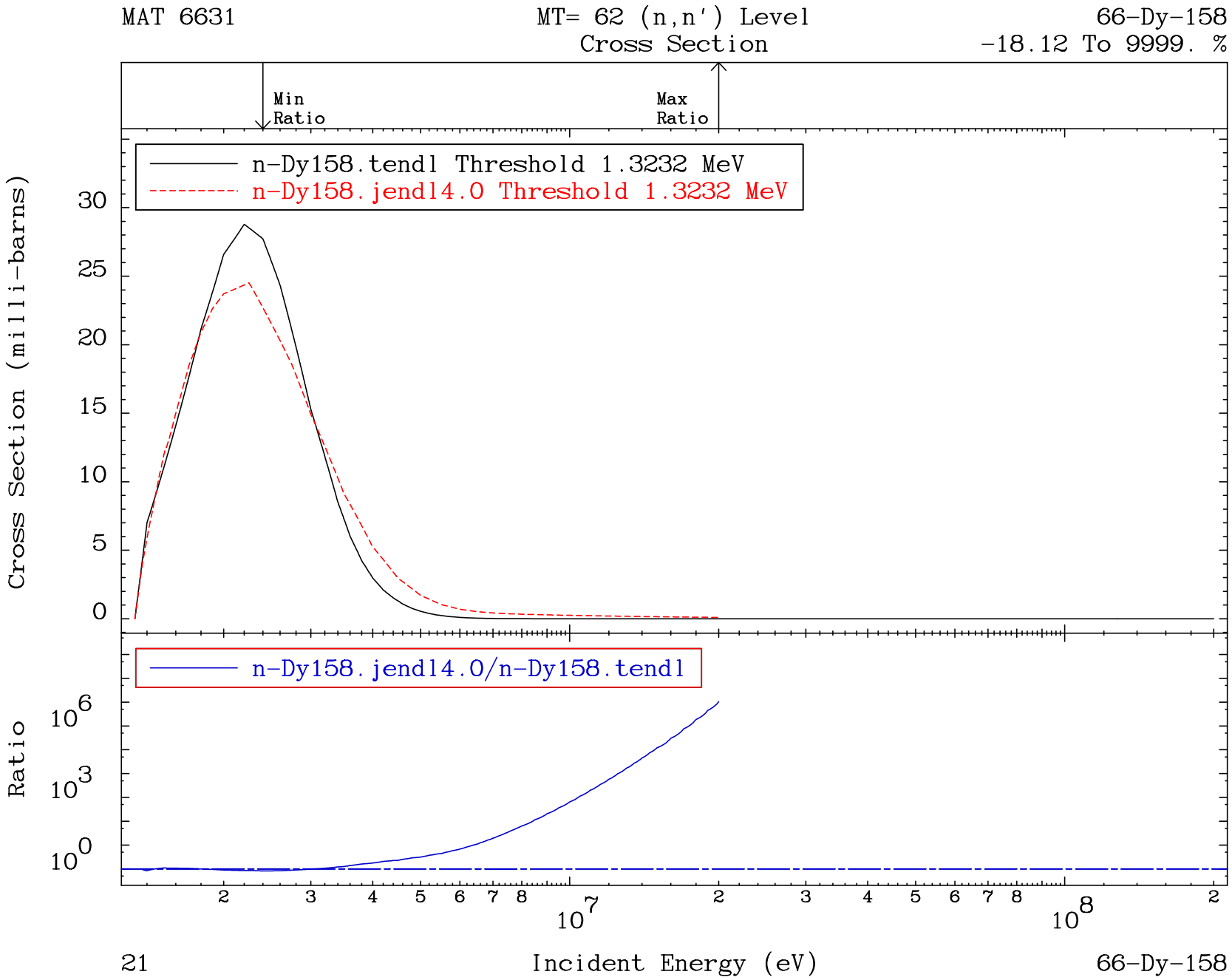

MAT 6631
MT= 57 (n,n') Level
Cross Section
66-Dy-158
-5.157 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 1.0719 MeV
n-Dy158.jendl4.0 Threshold 1.0513 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^6
10^4
10^2
10^0
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
66-Dy-158

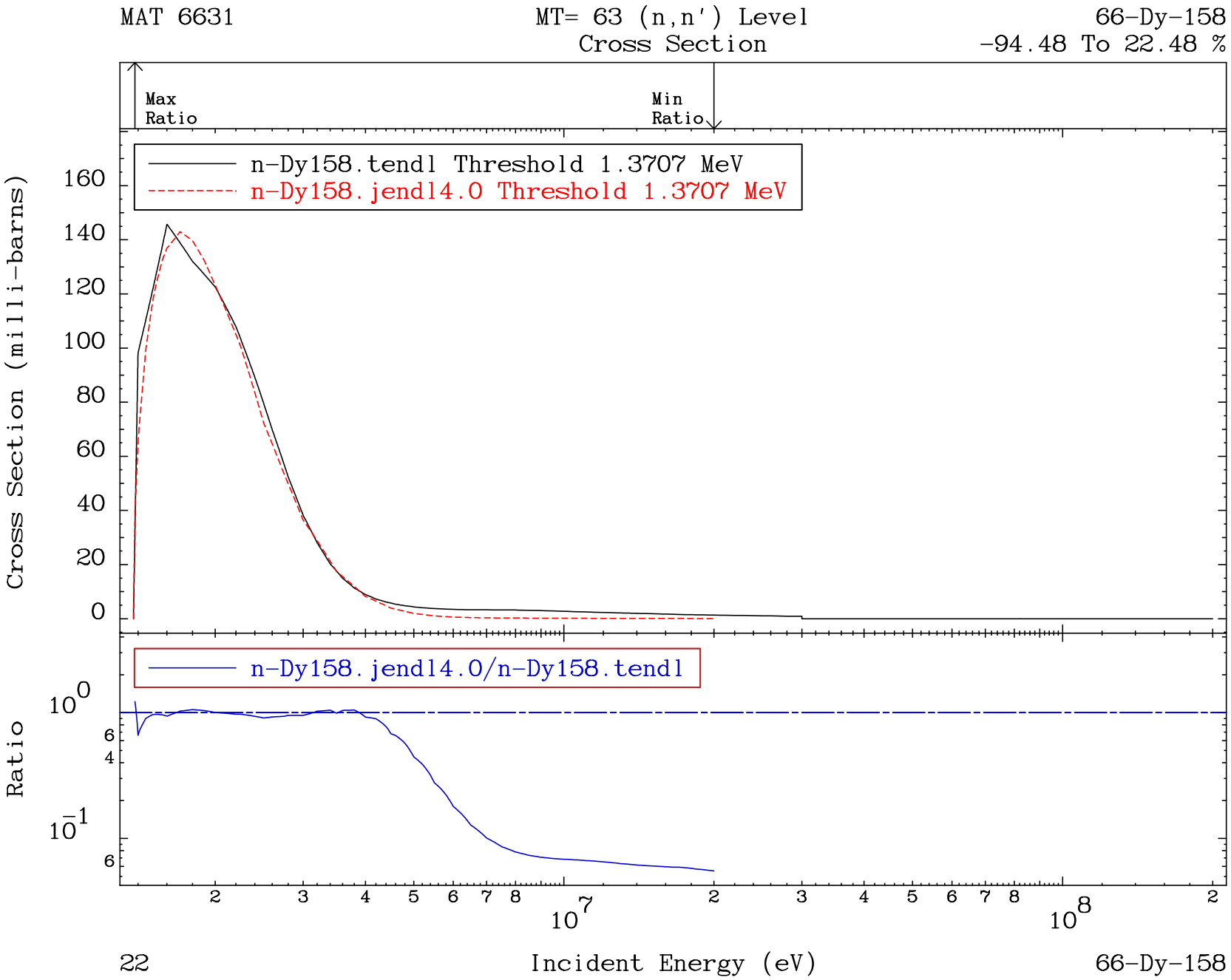

MAT 6631
MT= 58 (n,n') Level
Cross Section
66-Dy-158
-94.28 To 253.5 %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 1.0925 MeV
n-Dy158.jendl4.0 Threshold 1.0925 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
4
10^{0}
4
10^{-1}
2 3 4 5 6 7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
17
Incident Energy (eV)
66-Dy-158

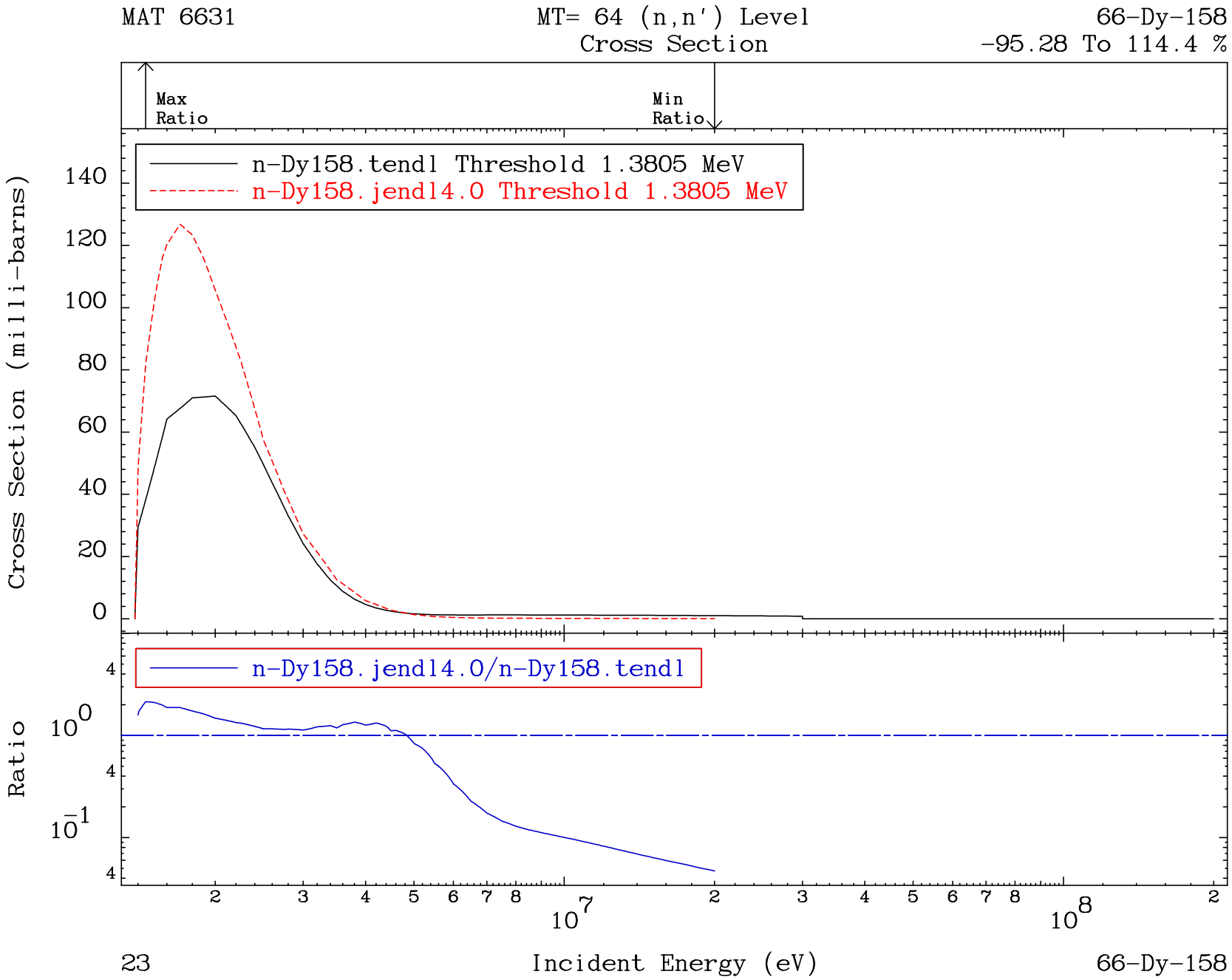

MAT 6631
MT= 59 (n,n') Level
Cross Section
66-Dy-158
-82.02 To 23.14 %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 1.1712 MeV
n-Dy158.jendl4.0 Threshold 1.1712 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
66-Dy-158

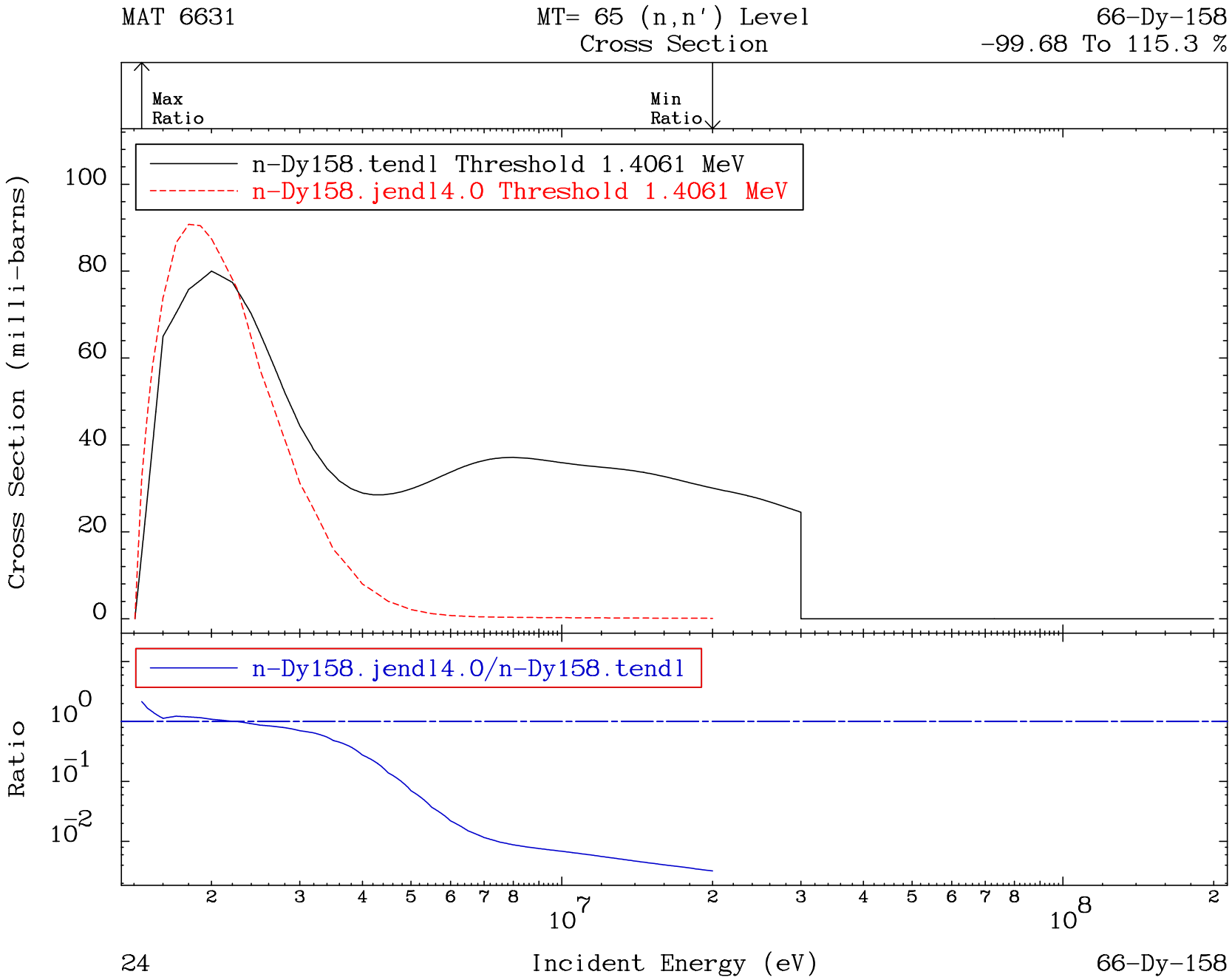

MAT 6631
MT= 60 (n,n') Level
Cross Section
66-Dy-158
-10.28 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 1.2771 MeV
n-Dy158.jendl4.0 Threshold 1.2771 MeV
Cross Section (milli-barns)
60
40
20
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
66-Dy-158

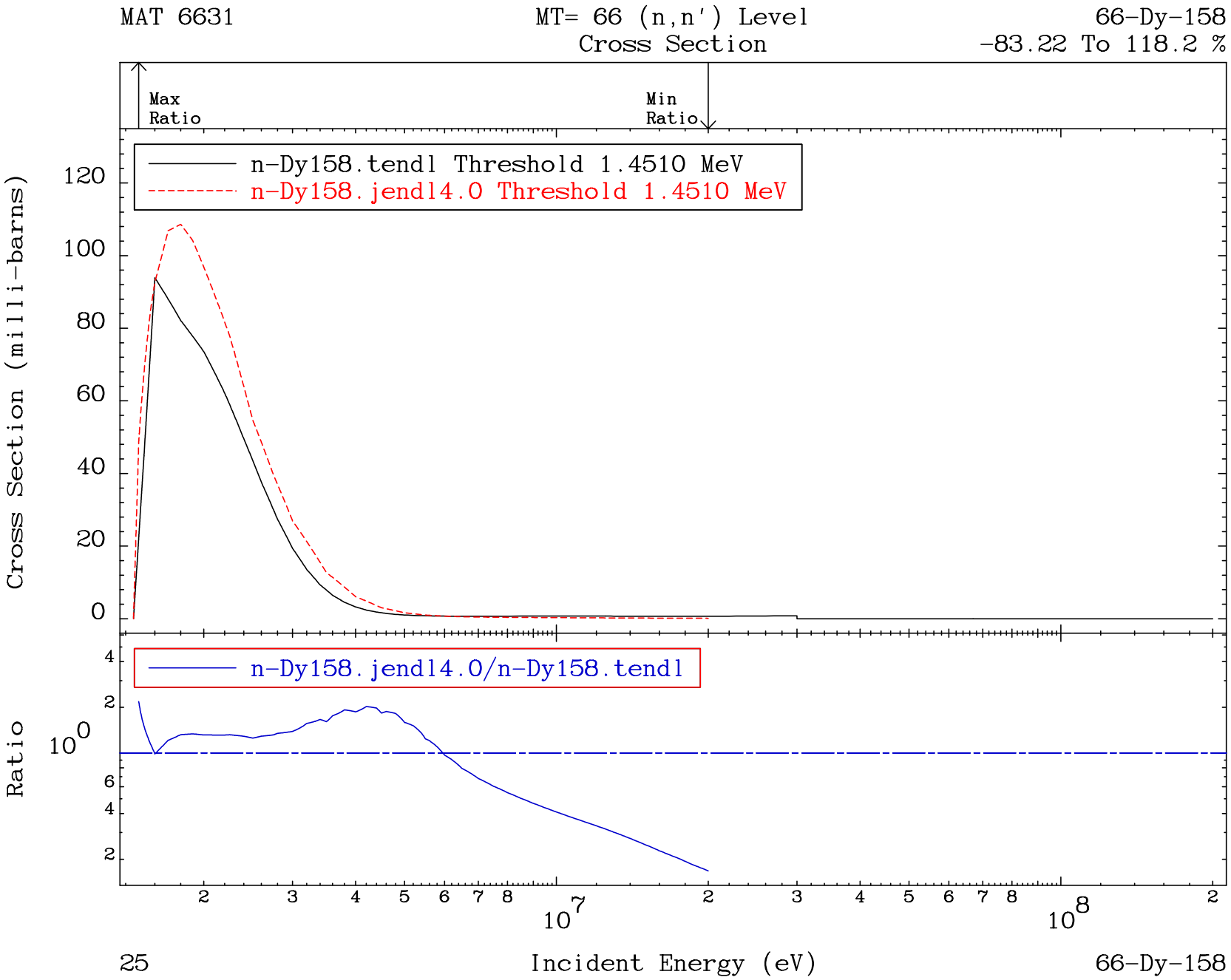

MAT 6631
MT= 61 (n,n') Level
Cross Section
66-Dy-158
-94.03 To 78.56 %
Max
Ratio
Min
Ratio
n-Dy158.tendl Threshold 1.2882 MeV
n-Dy158.jendl4.0 Threshold 1.2882 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
4
10^{0}
4
10^{-1}
2
3
4
5
6
7
8
10^{7}
2
3
4
5
6
7
8
10^{8}
2
20
Incident Energy (eV)
66-Dy-158

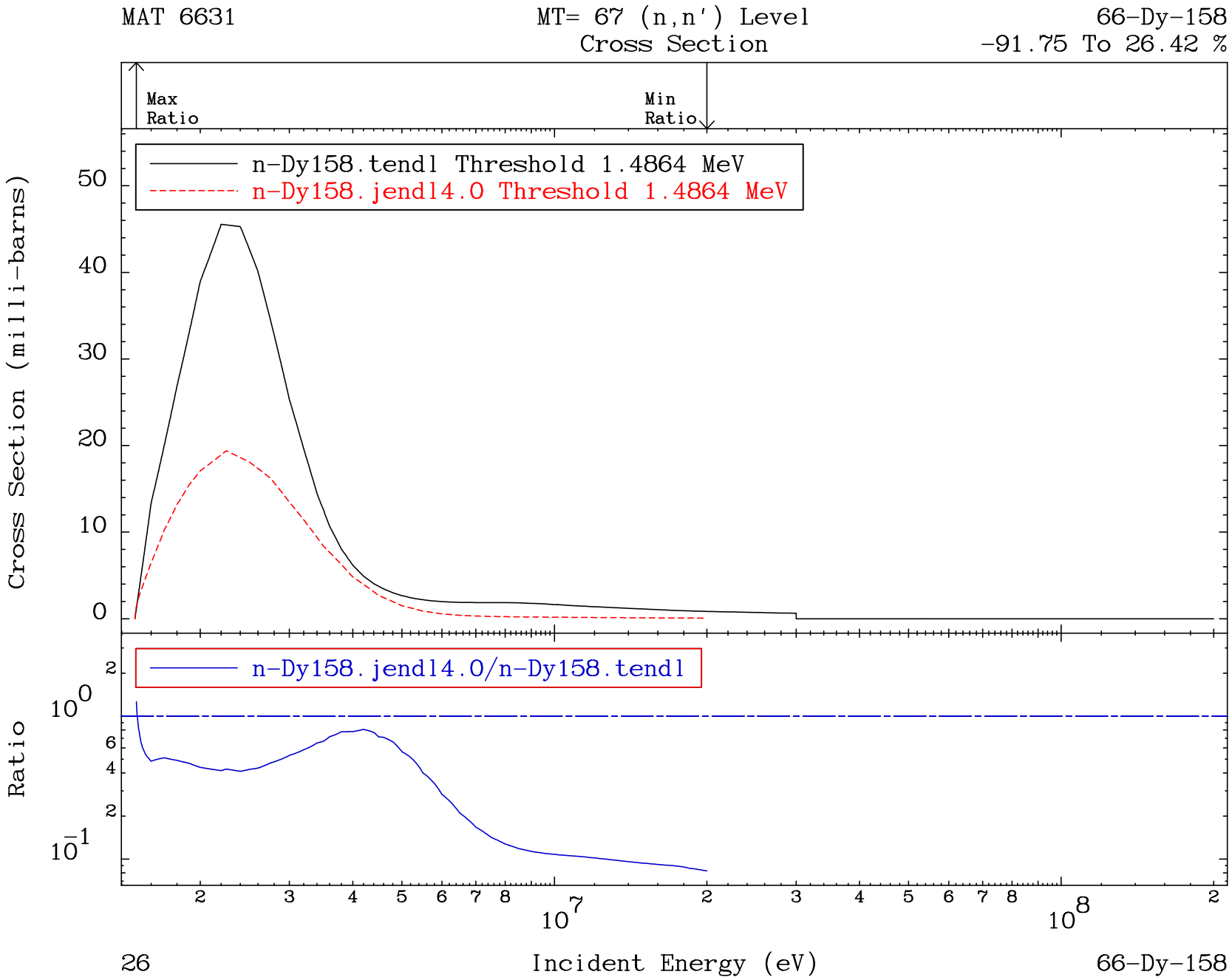

MAT 6631
MT= 62 (n,n') Level
Cross Section
66-Dy-158
-18.12 To 9999. %
Min
Ratio
Max
Ratio
n-Dy158.tendl Threshold 1.3232 MeV
n-Dy158.jendl4.0 Threshold 1.3232 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^6
10^3
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
66-Dy-158

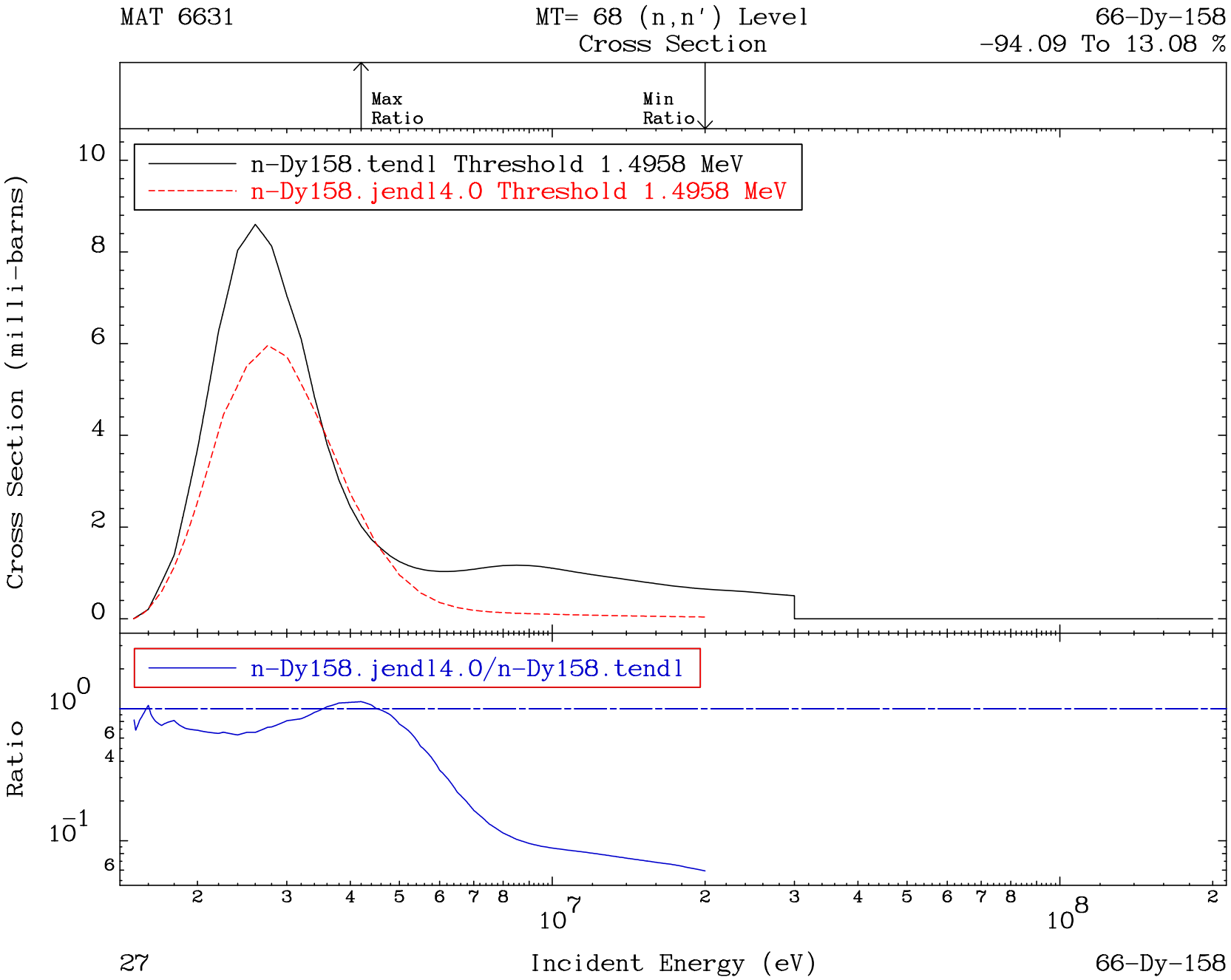

MAT 6631
MT= 63 (n,n') Level
Cross Section
66-Dy-158
-94.48 To 22.48 %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 1.3707 MeV
n-Dy158.jendl4.0 Threshold 1.3707 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^0
6
4
10^-1
6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
66-Dy-158

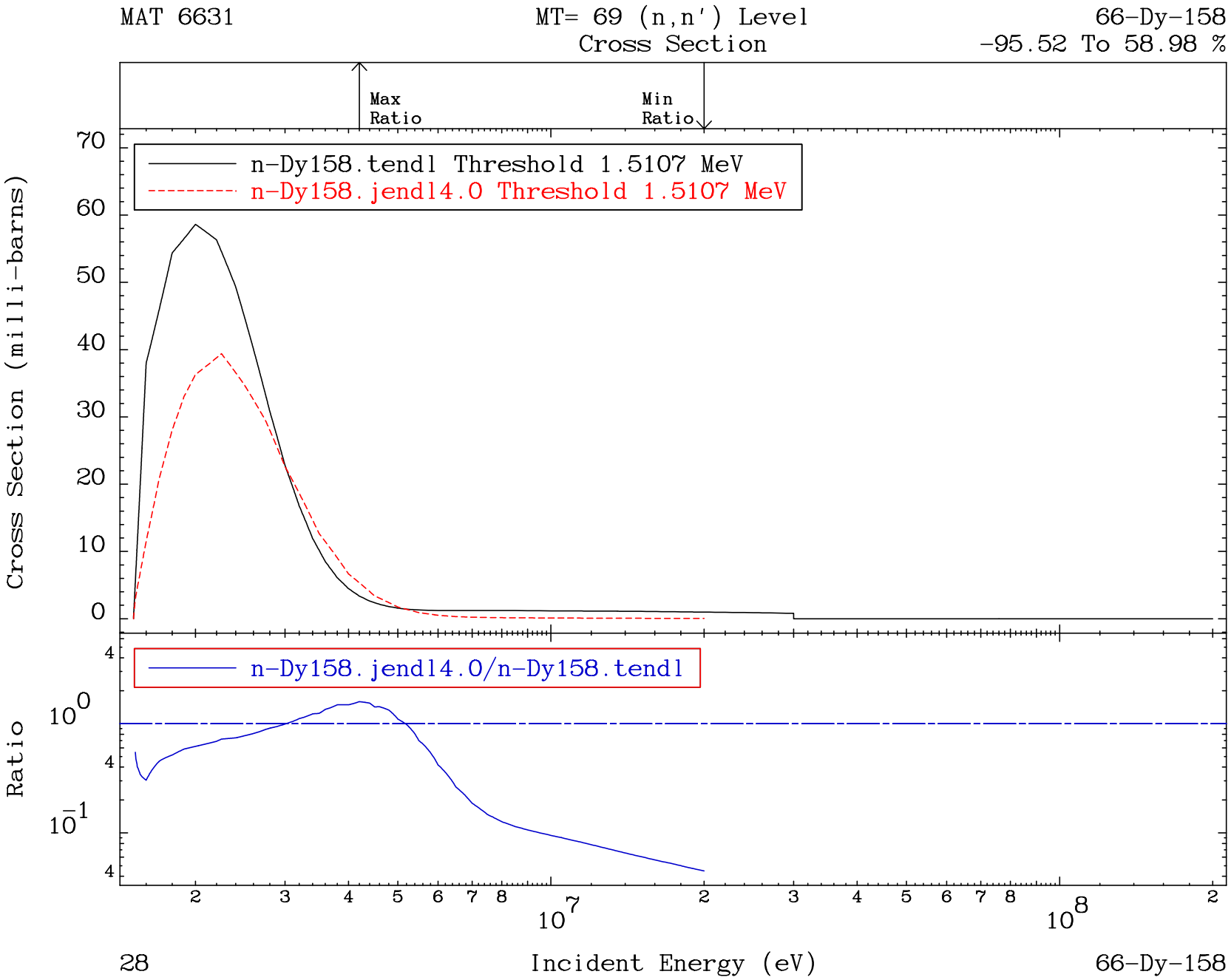

MAT 6631
MT= 64 (n,n') Level
Cross Section
66-Dy-158
-95.28 To 114.4 %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 1.3805 MeV
n-Dy158.jendl4.0 Threshold 1.3805 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^0
10^-1
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
66-Dy-158

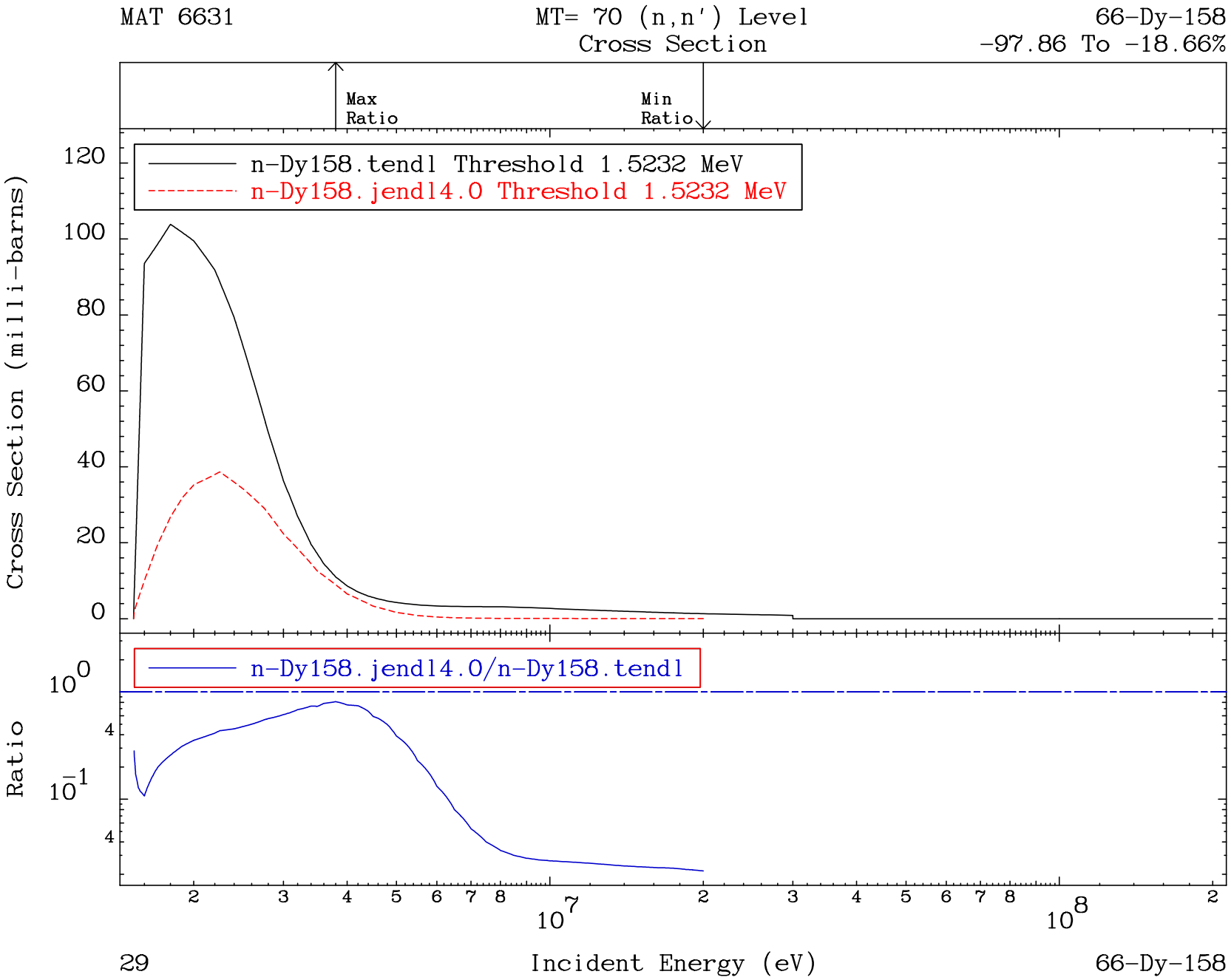

MAT 6631
MT= 65 (n,n') Level
Cross Section
66-Dy-158
-99.68 To 115.3 %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 1.4061 MeV
n-Dy158.jendl4.0 Threshold 1.4061 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^0
10^-1
10^-2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
66-Dy-158

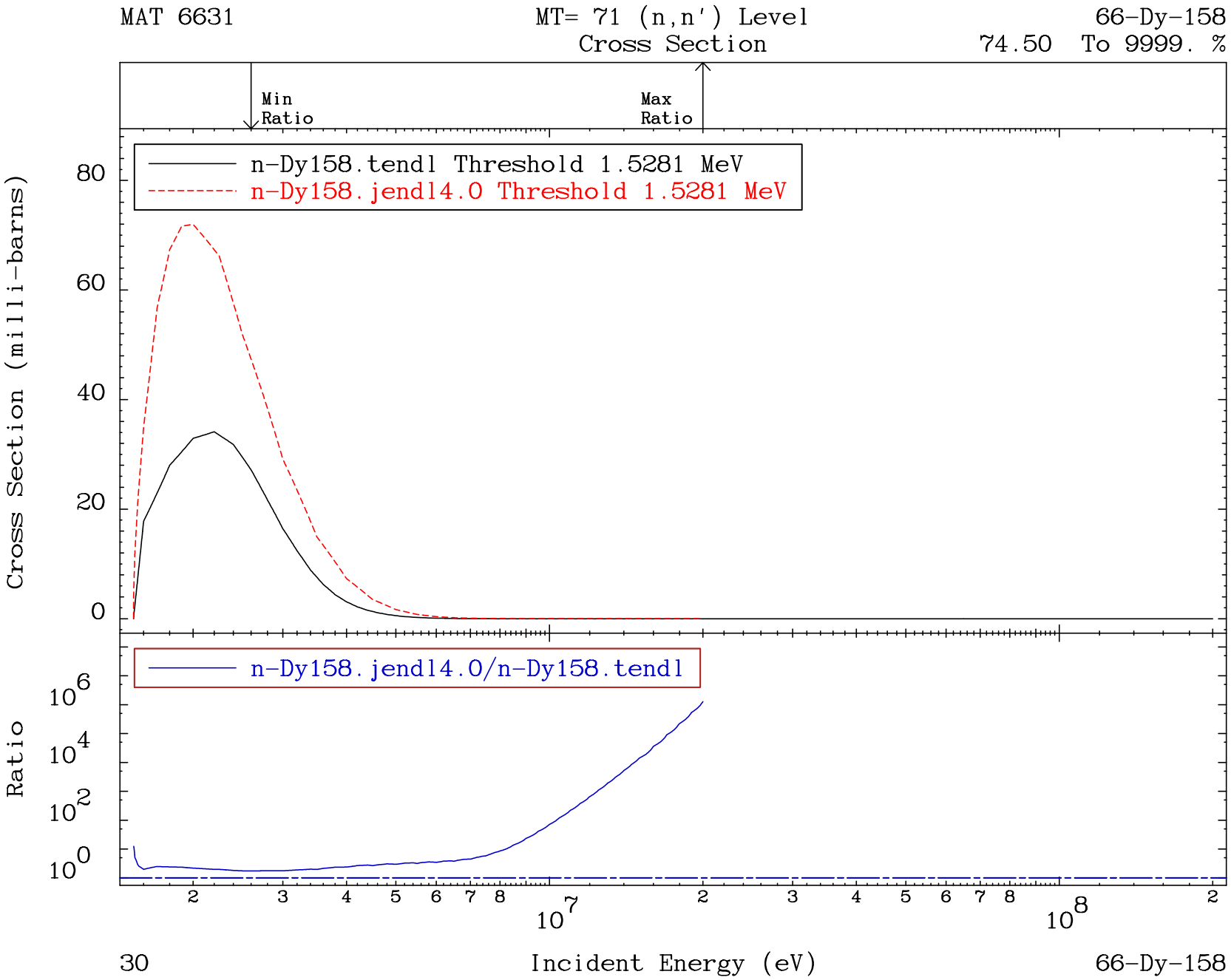

MAT 6631
MT= 66 (n,n') Level
Cross Section
66-Dy-158
-83.22 To 118.2 %
Max
Ratio
Min
Ratio
n-Dy158.tendl Threshold 1.4510 MeV
n-Dy158.jendl4.0 Threshold 1.4510 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
4
2
10^0
6
4
2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
25
Incident Energy (eV)
66-Dy-158

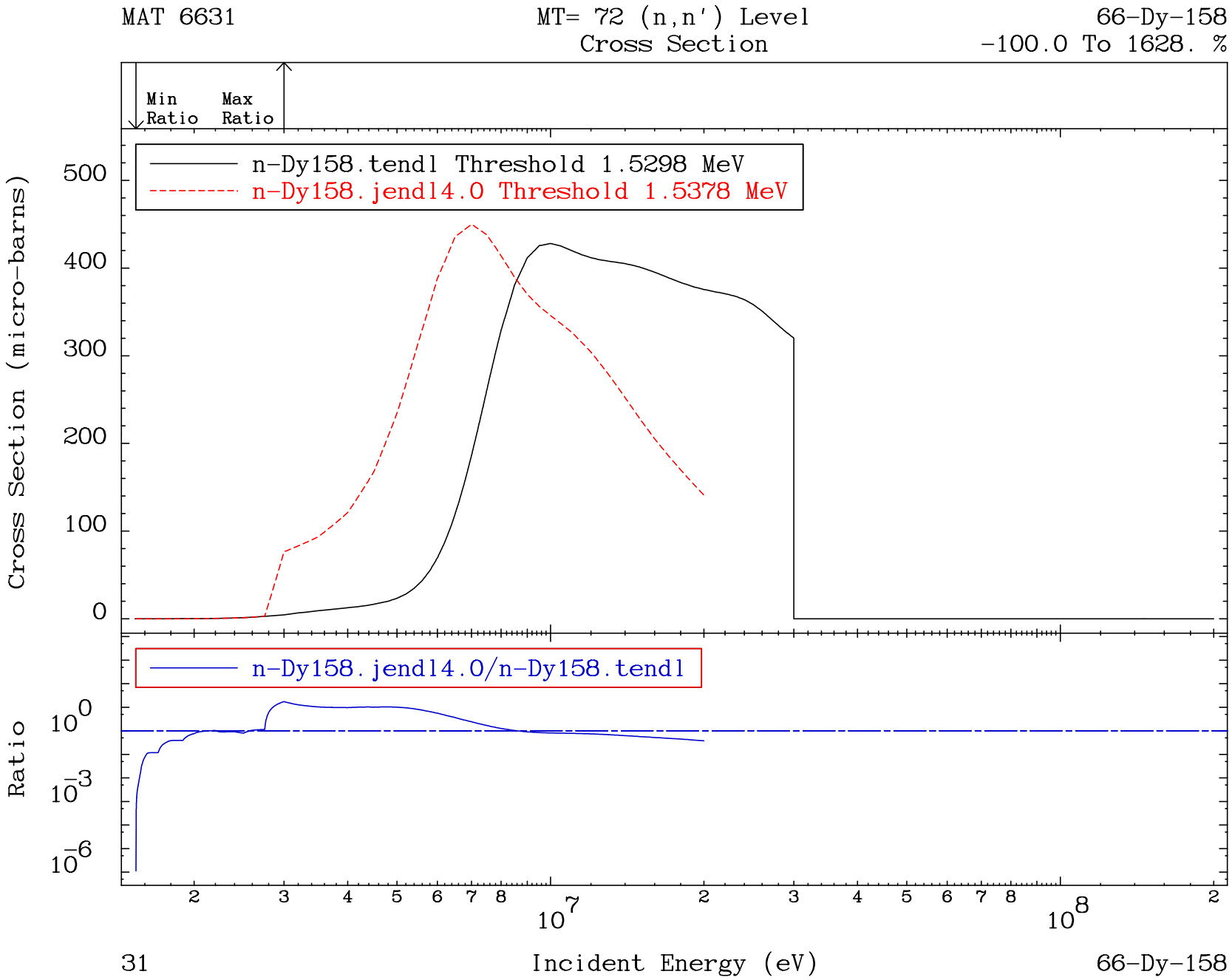

MAT 6631
MT= 67 (n,n') Level
Cross Section
66-Dy-158
-91.75 To 26.42 %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 1.4864 MeV
n-Dy158.jendl4.0 Threshold 1.4864 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
2
10^0
6
4
2
10^-1
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
66-Dy-158

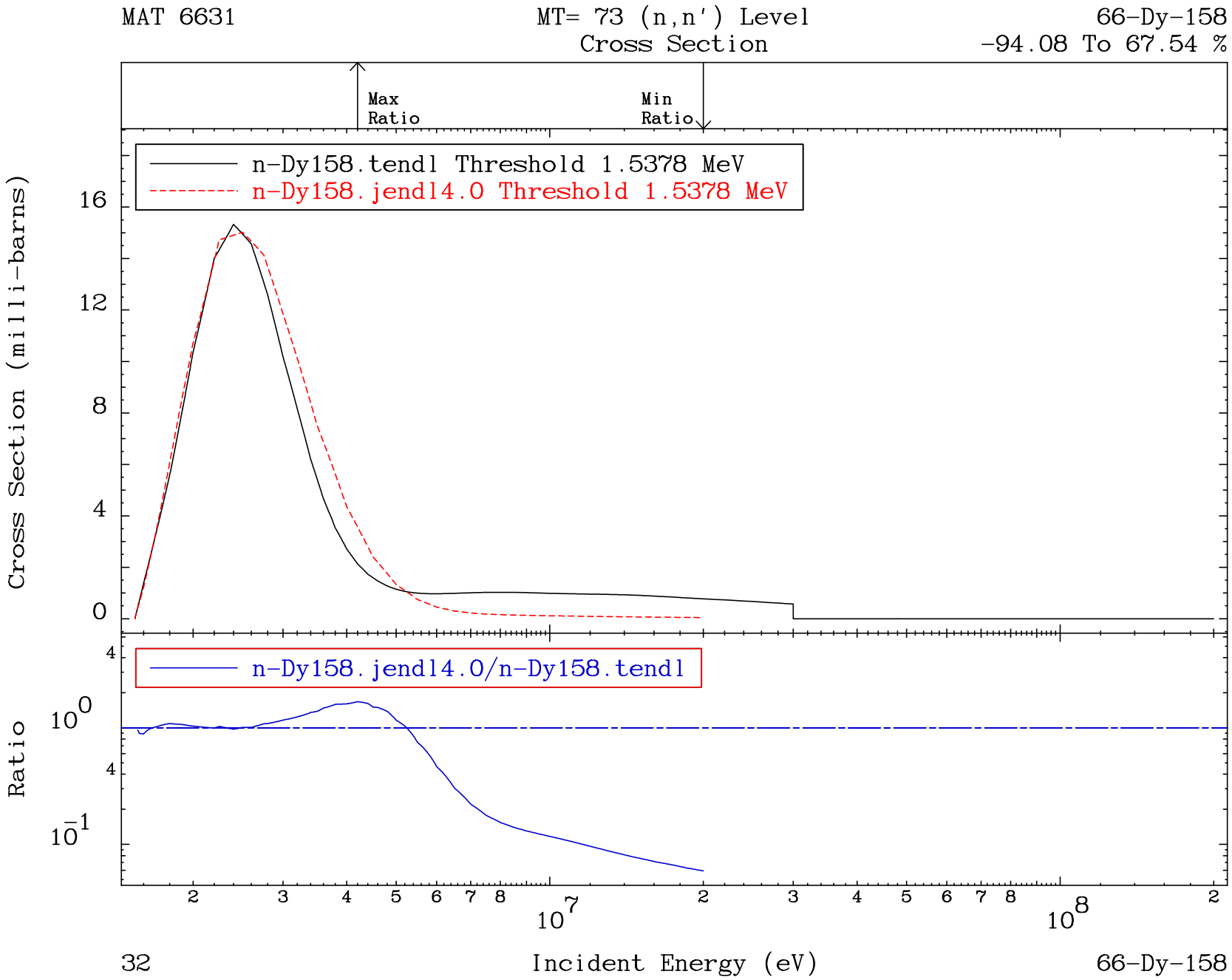

MAT 6631
MT= 68 (n,n') Level
Cross Section
66-Dy-158
-94.09 To 13.08 %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 1.4958 MeV
n-Dy158.jendl4.0 Threshold 1.4958 MeV
Cross Section (milli-barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
27
66-Dy-158

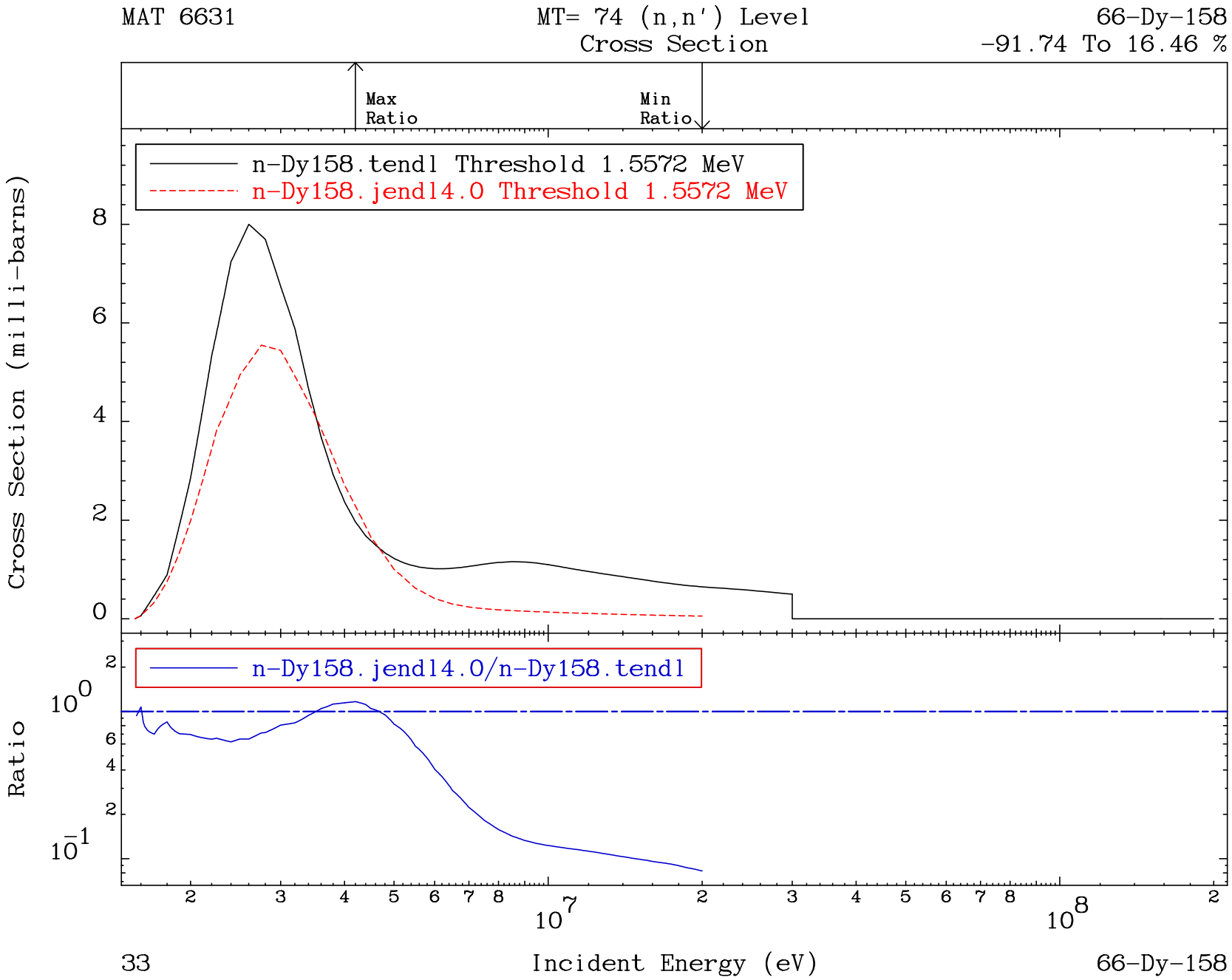

MAT 6631
MT= 69 (n,n') Level
Cross Section
66-Dy-158
-95.52 To 58.98 %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 1.5107 MeV
n-Dy158.jendl4.0 Threshold 1.5107 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
4
10^0
4
10^-1
4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
66-Dy-158

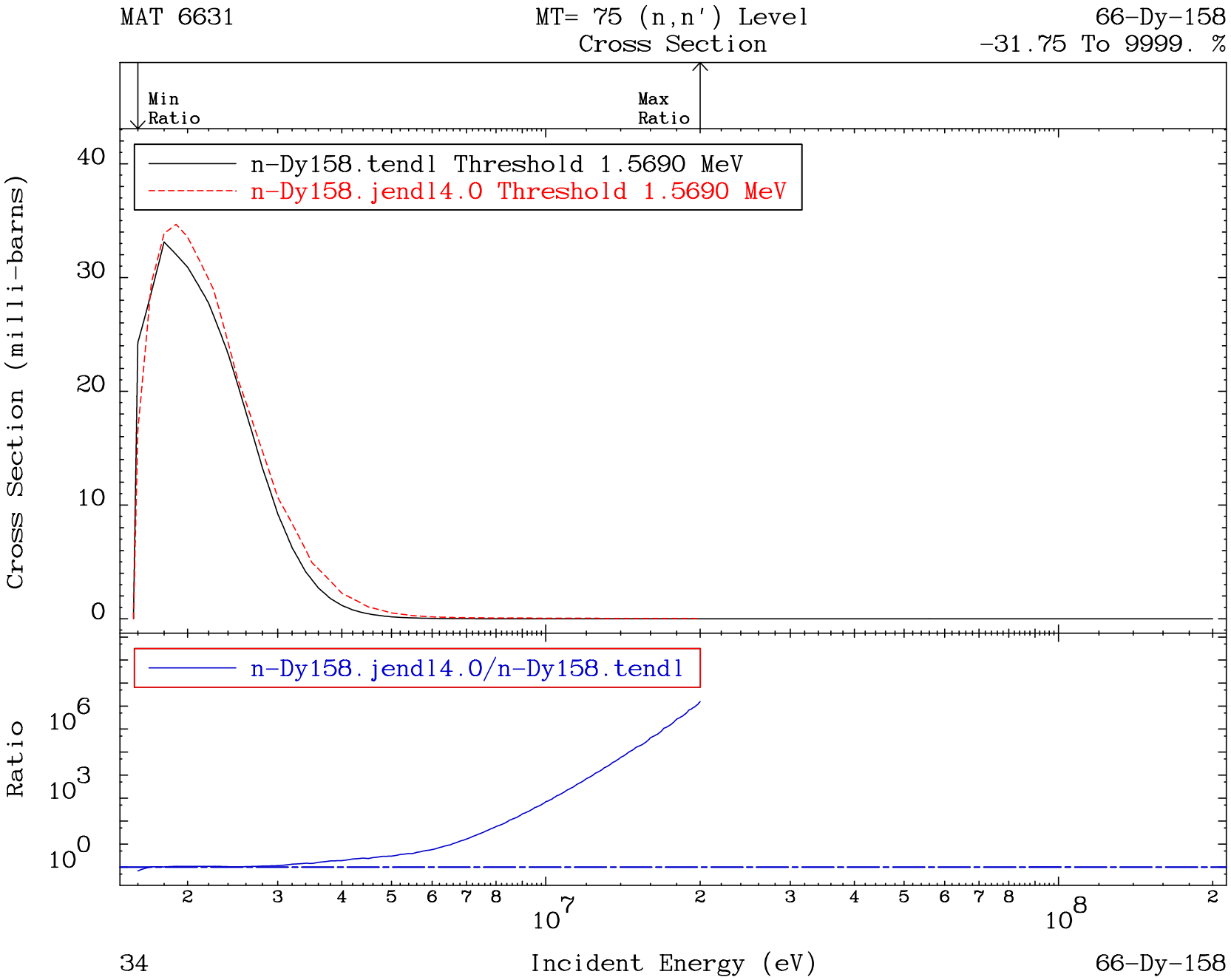

MAT 6631
MT= 70 (n,n') Level
Cross Section
66-Dy-158
-97.86 To -18.66%
Max
Ratio
Min
Ratio
n-Dy158.tendl Threshold 1.5232 MeV
n-Dy158.jendl4.0 Threshold 1.5232 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^0
10^-1
4
4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
29
Incident Energy (eV)
66-Dy-158

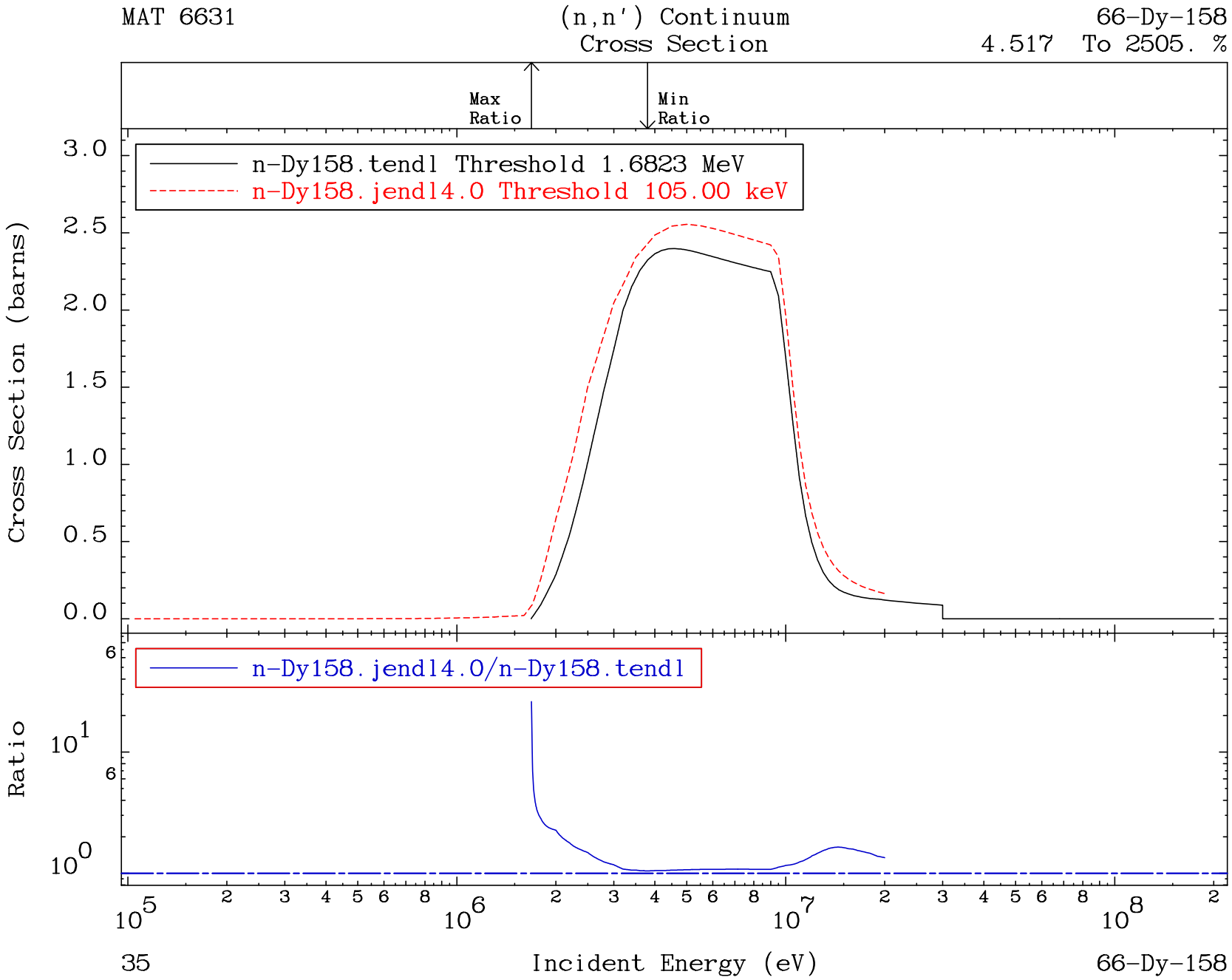

MAT 6631
MT= 71 (n,n') Level
Cross Section
66-Dy-158
74.50 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 1.5281 MeV
n-Dy158.jendl4.0 Threshold 1.5281 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^6
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
66-Dy-158

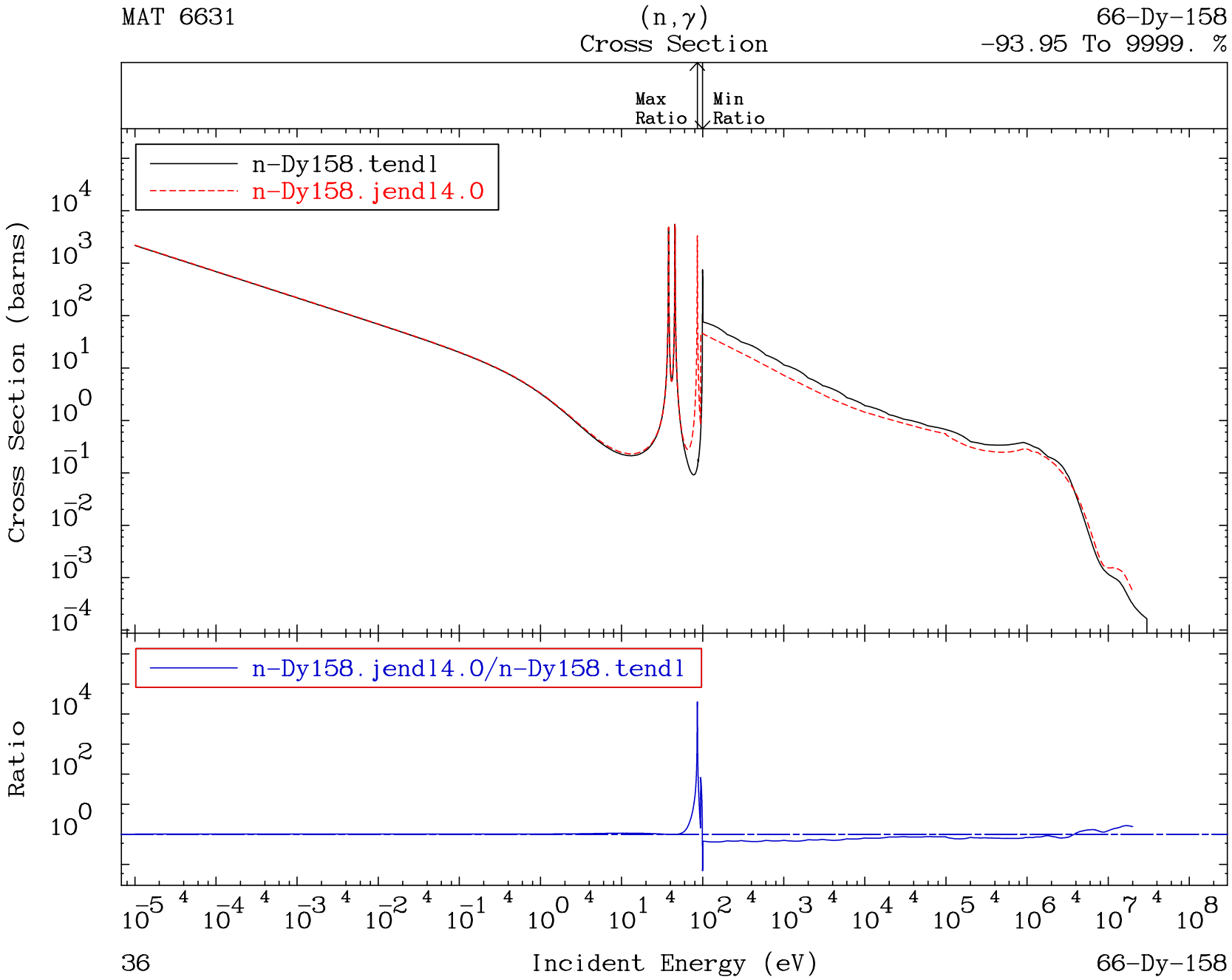

MAT 6631
MT= 72 (n,n') Level
Cross Section
66-Dy-158
-100.0 To 1628. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 1.5298 MeV
n-Dy158.jendl4.0 Threshold 1.5378 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
66-Dy-158

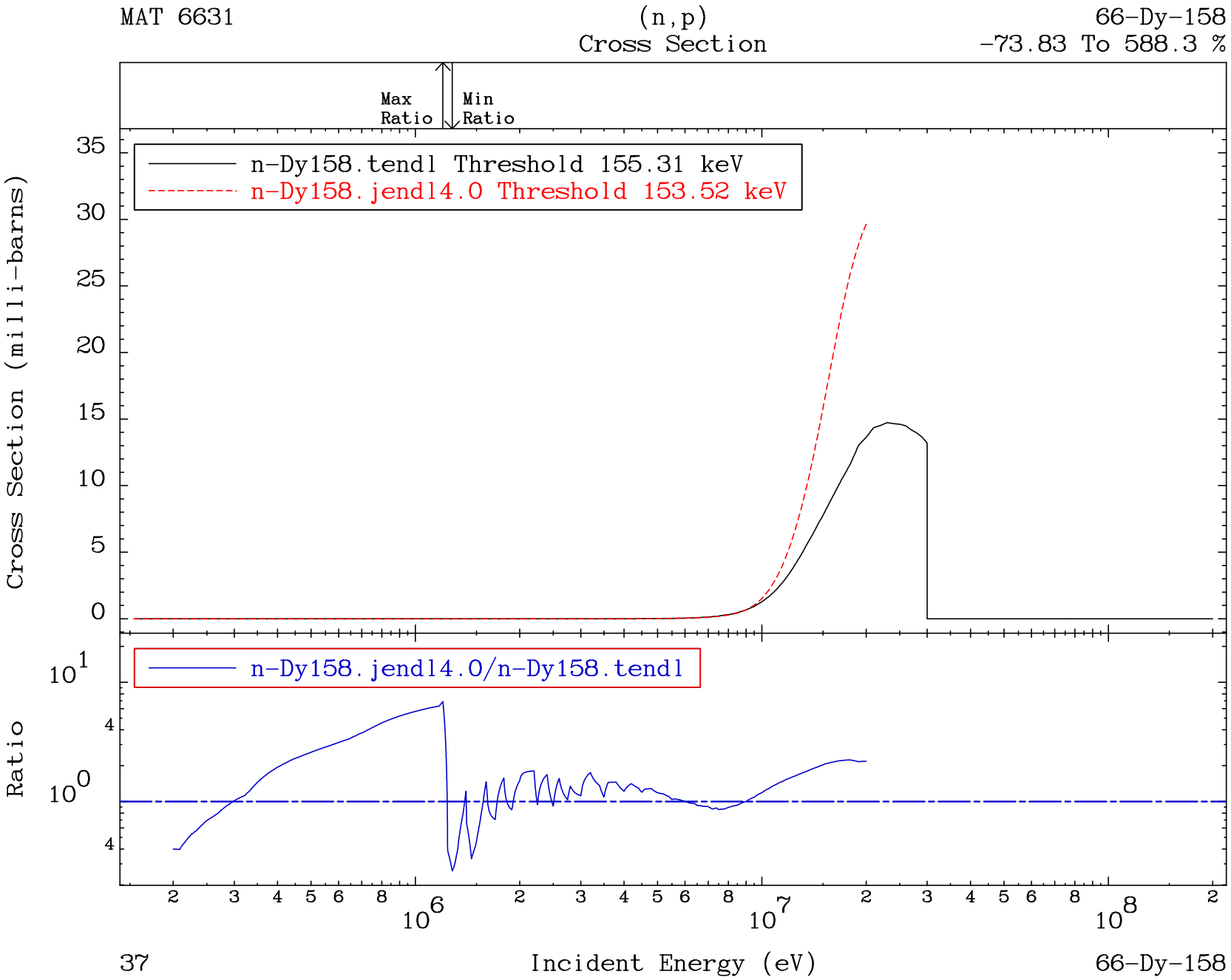

MAT 6631
MT= 73 (n,n') Level
Cross Section
66-Dy-158
-94.08 To 67.54 %
Max
Ratio
Min
Ratio
n-Dy158.tendl Threshold 1.5378 MeV
n-Dy158.jendl4.0 Threshold 1.5378 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^0
10^-1
2
3
4
5
6
7
8
10^7
10^8
32
Incident Energy (eV)
66-Dy-158

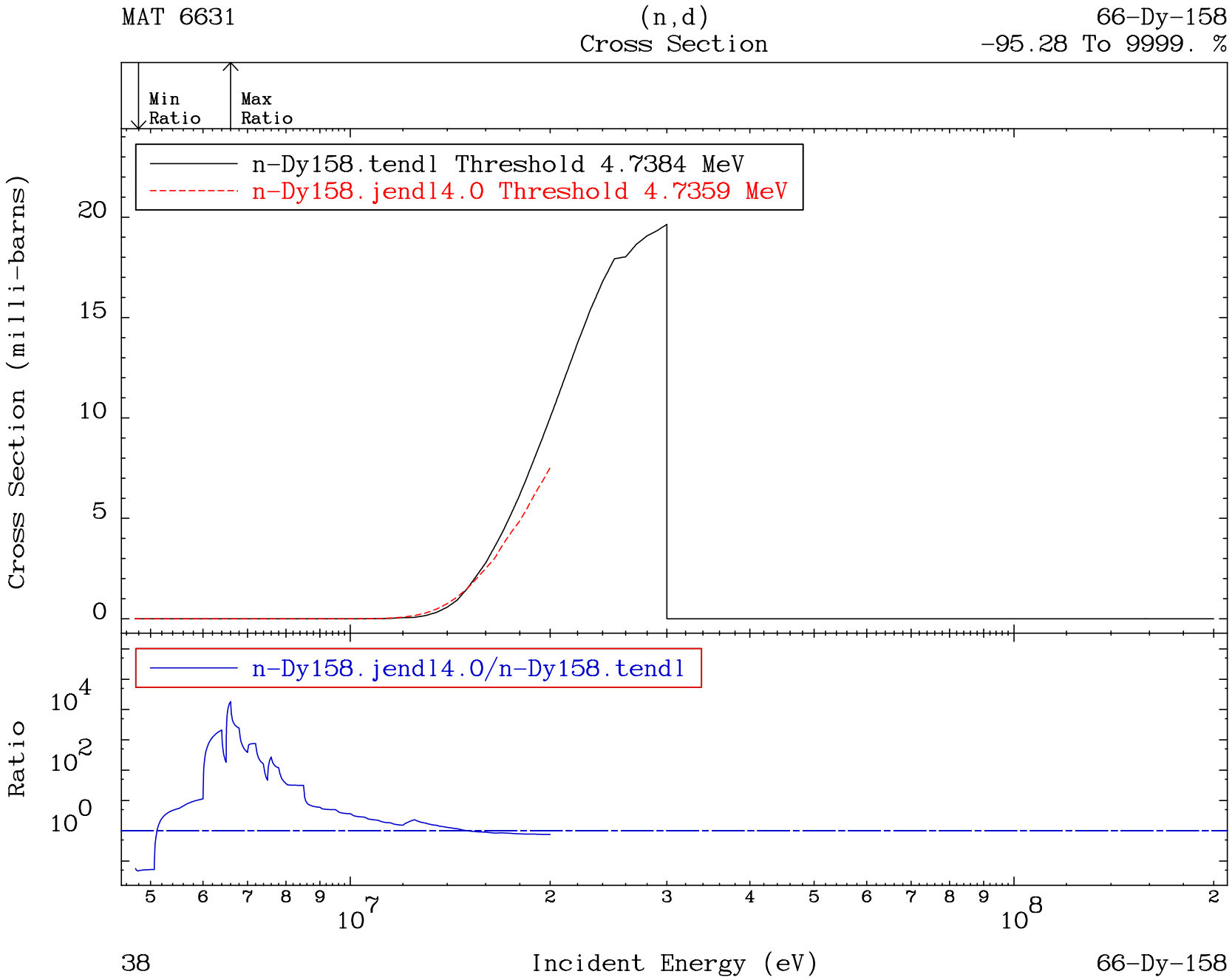

MAT 6631
MT= 74 (n,n') Level
Cross Section
66-Dy-158
-91.74 To 16.46 %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 1.5572 MeV
n-Dy158.jendl4.0 Threshold 1.5572 MeV
Cross Section (milli-barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
33
66-Dy-158

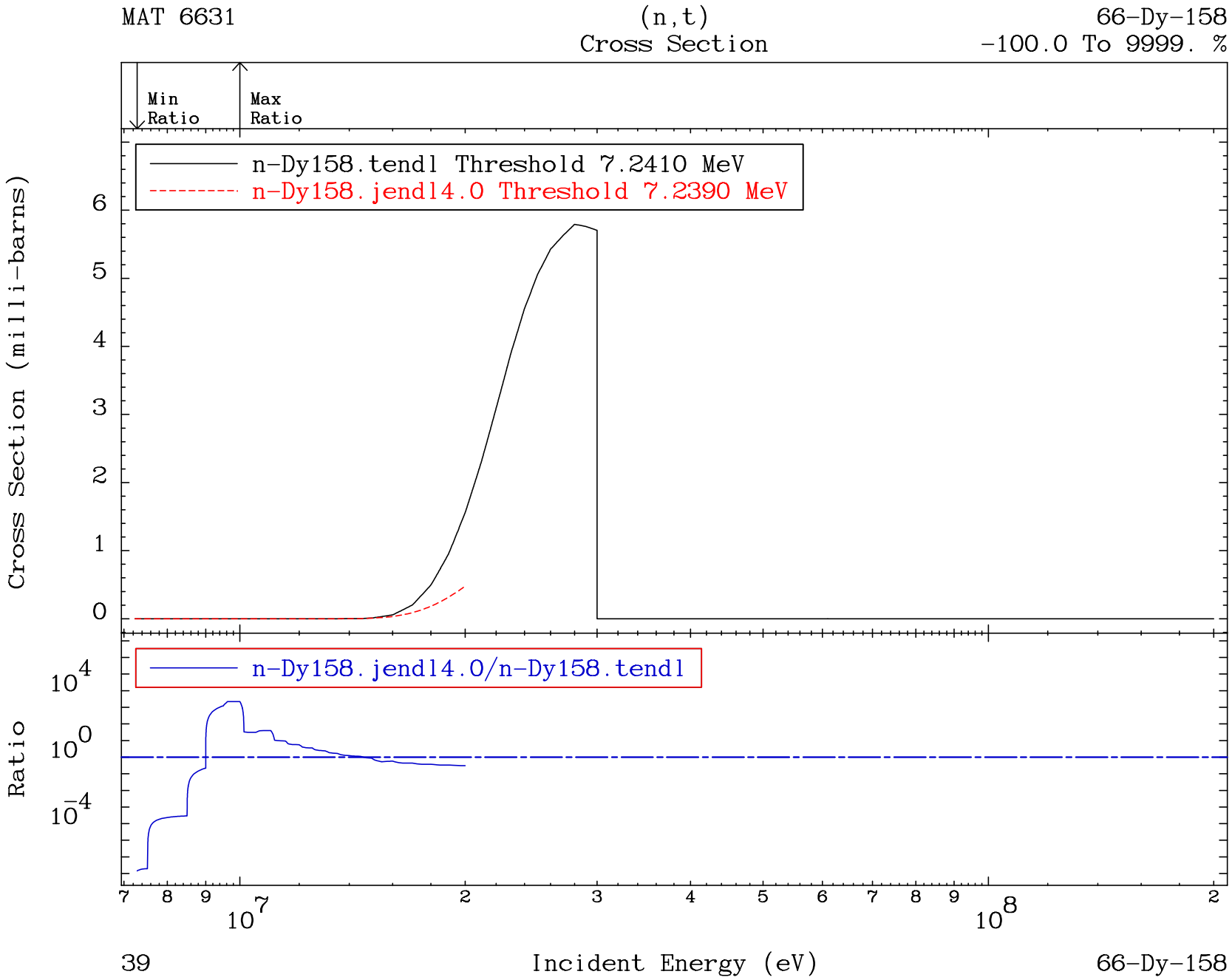

MAT 6631
MT= 75 (n,n') Level
Cross Section
66-Dy-158
-31.75 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 1.5690 MeV
n-Dy158.jendl4.0 Threshold 1.5690 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
66-Dy-158

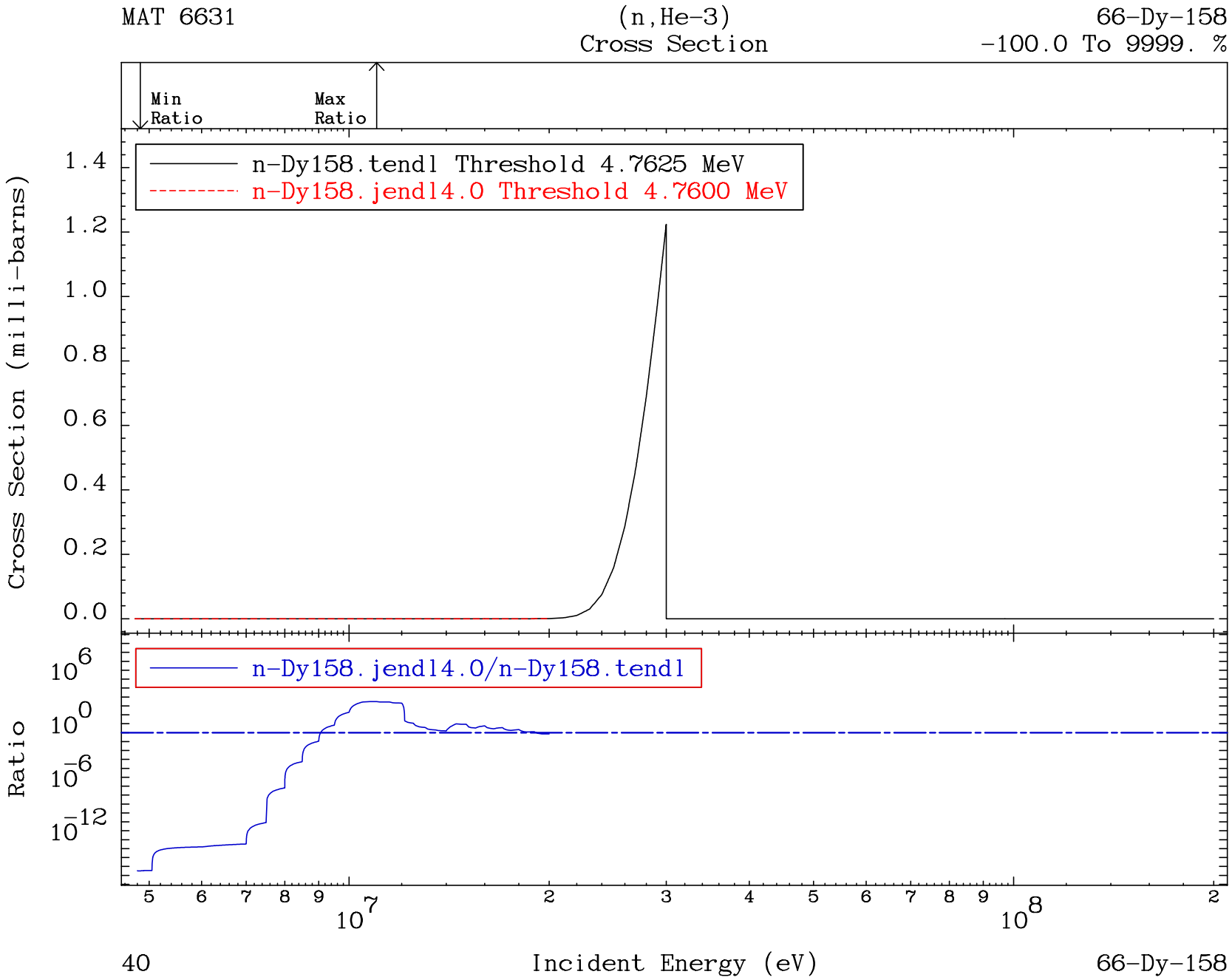

MAT 6631
(n,n') Continuum
Cross Section
66-Dy-158
4.517 To 2505. %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 1.6823 MeV
n-Dy158.jendl4.0 Threshold 105.00 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^1
6
10^0
10^5
2 3 4 5 6 8
10^6
2 3 4 5 6 8
10^7
2 3 4 5 6 8
10^8
2
35
Incident Energy (eV)
66-Dy-158

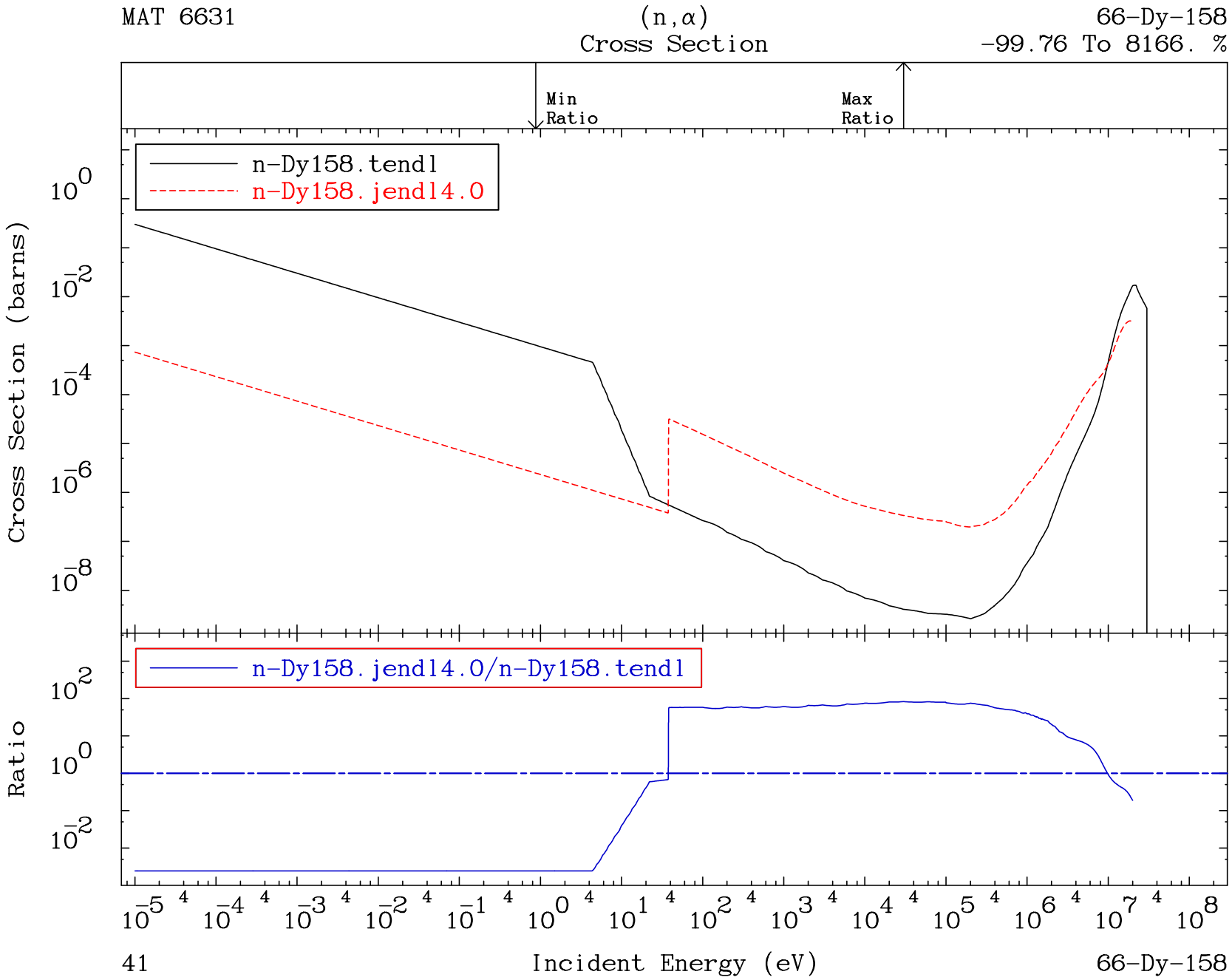

MAT 6631
(n,γ)
Cross Section
66-Dy-158
-93.95 To 9999. %
Max Ratio
Min Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
36
Incident Energy (eV)
66-Dy-158

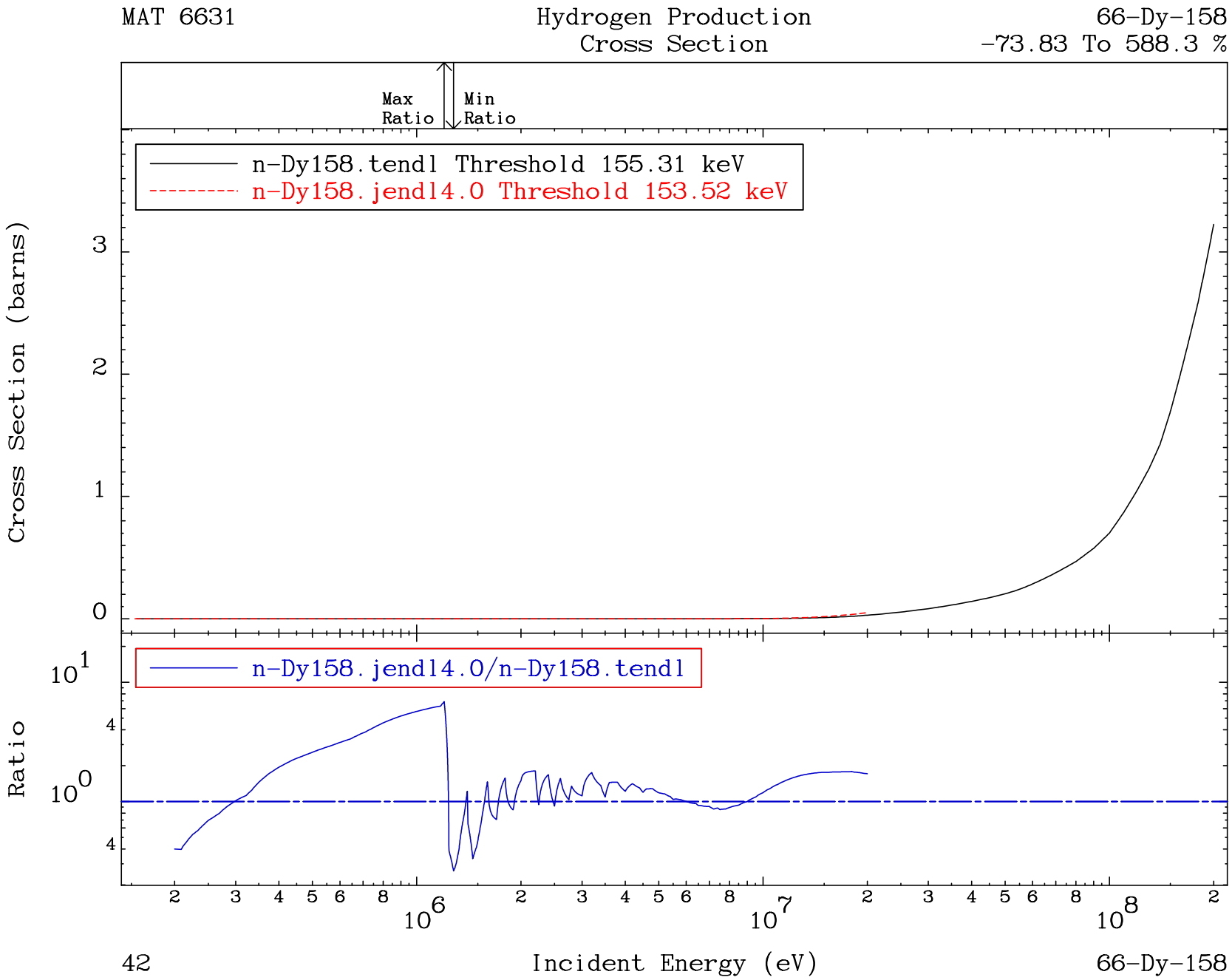

MAT 6631
(n,p)
Cross Section
66-Dy-158
-73.83 To 588.3 %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 155.31 keV
n-Dy158.jendl4.0 Threshold 153.52 keV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^1
4
10^0
4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
37
Incident Energy (eV)
66-Dy-158

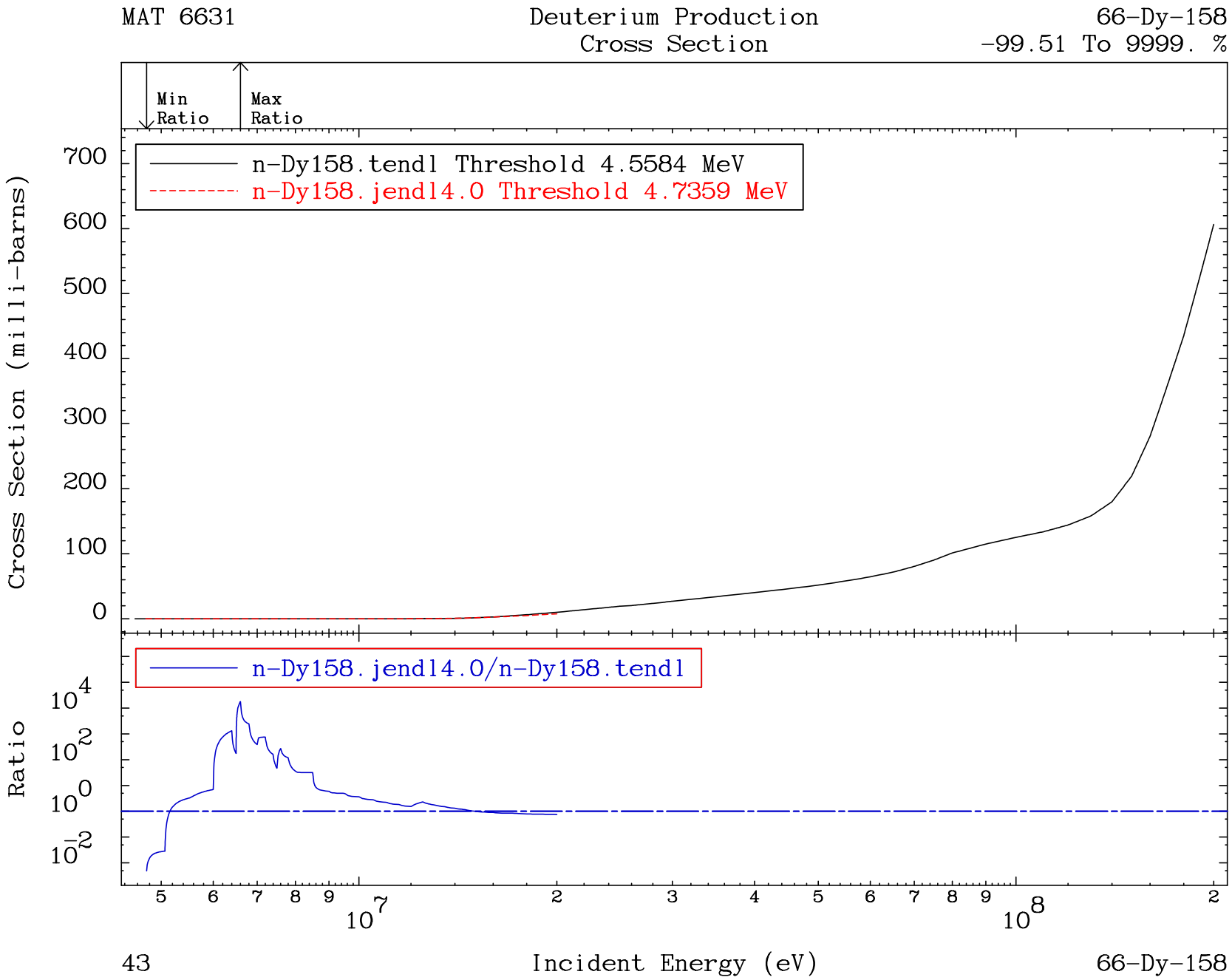

MAT 6631
(n,d)
Cross Section
66-Dy-158
-95.28 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 4.7384 MeV
n-Dy158.jendl4.0 Threshold 4.7359 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^4
10^2
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
66-Dy-158

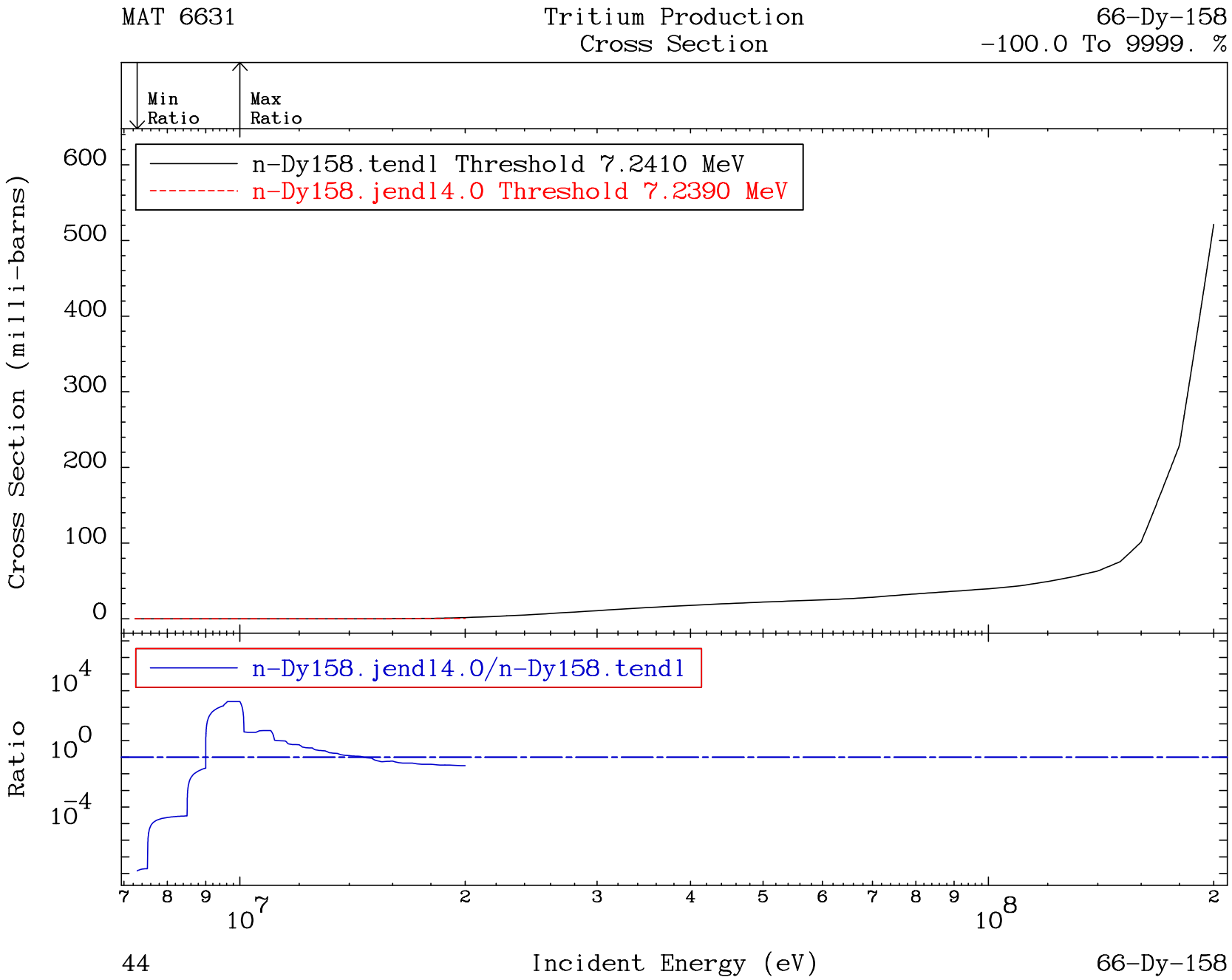

MAT 6631
(n,t)
Cross Section
66-Dy-158
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 7.2410 MeV
n-Dy158.jendl4.0 Threshold 7.2390 MeV
Cross Section (milli-barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
39
66-Dy-158

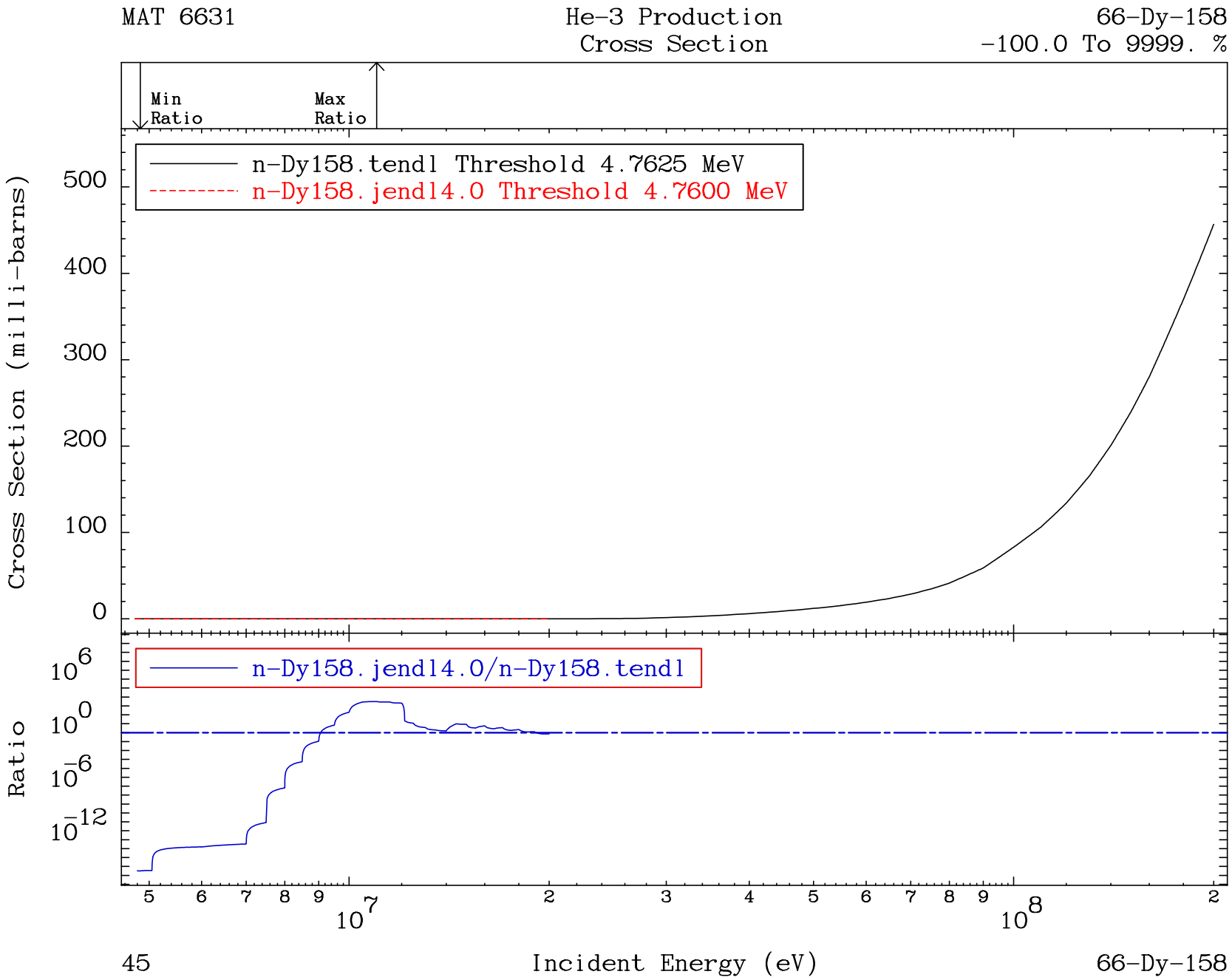

MAT 6631
(n,He-3)
Cross Section
66-Dy-158
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 4.7625 MeV
n-Dy158.jendl4.0 Threshold 4.7600 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^6
10^0
10^-6
10^-12
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
66-Dy-158

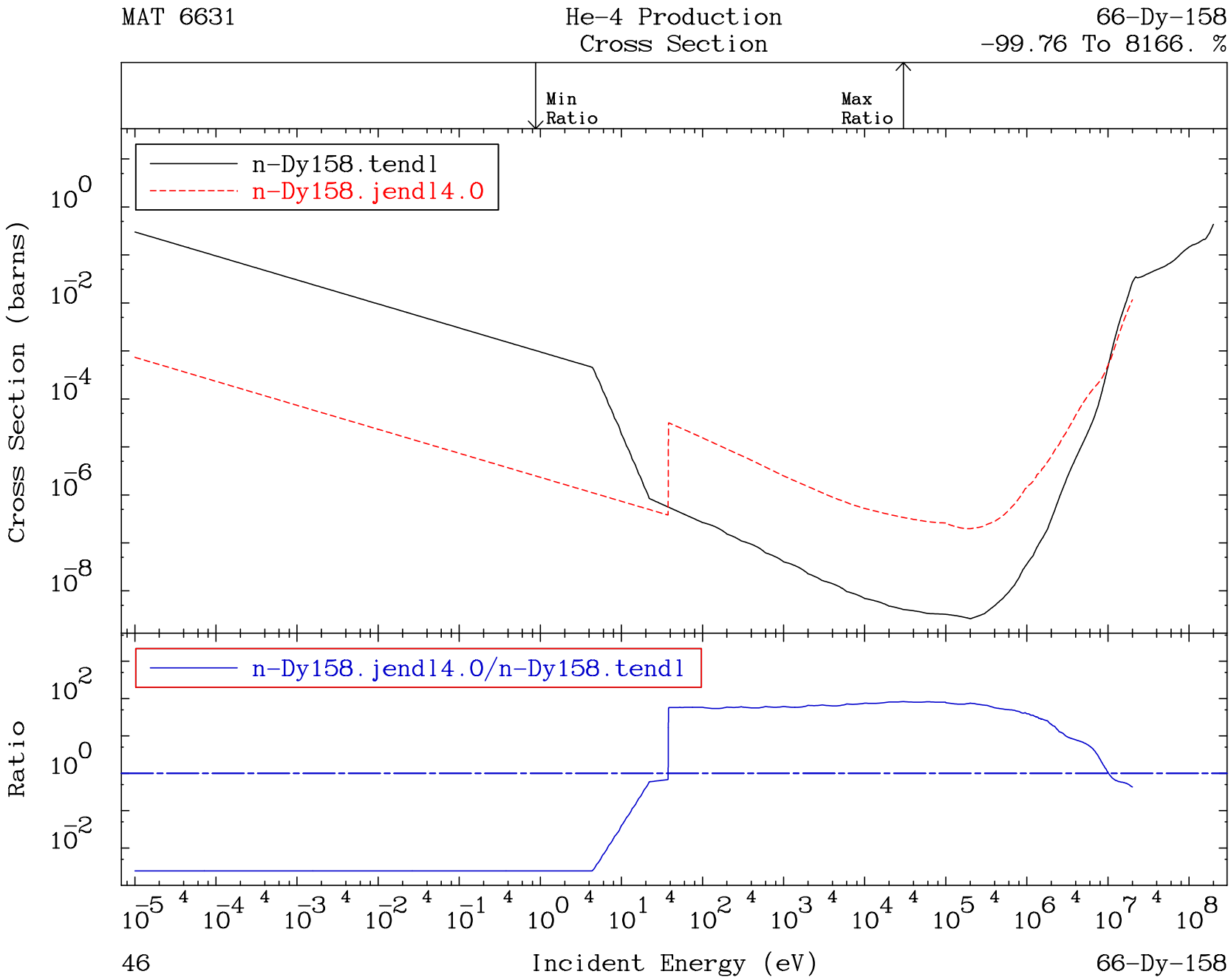

MAT 6631
(n,α)
Cross Section
66-Dy-158
-99.76 To 8166. %
Min Ratio
Max Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
41
66-Dy-158

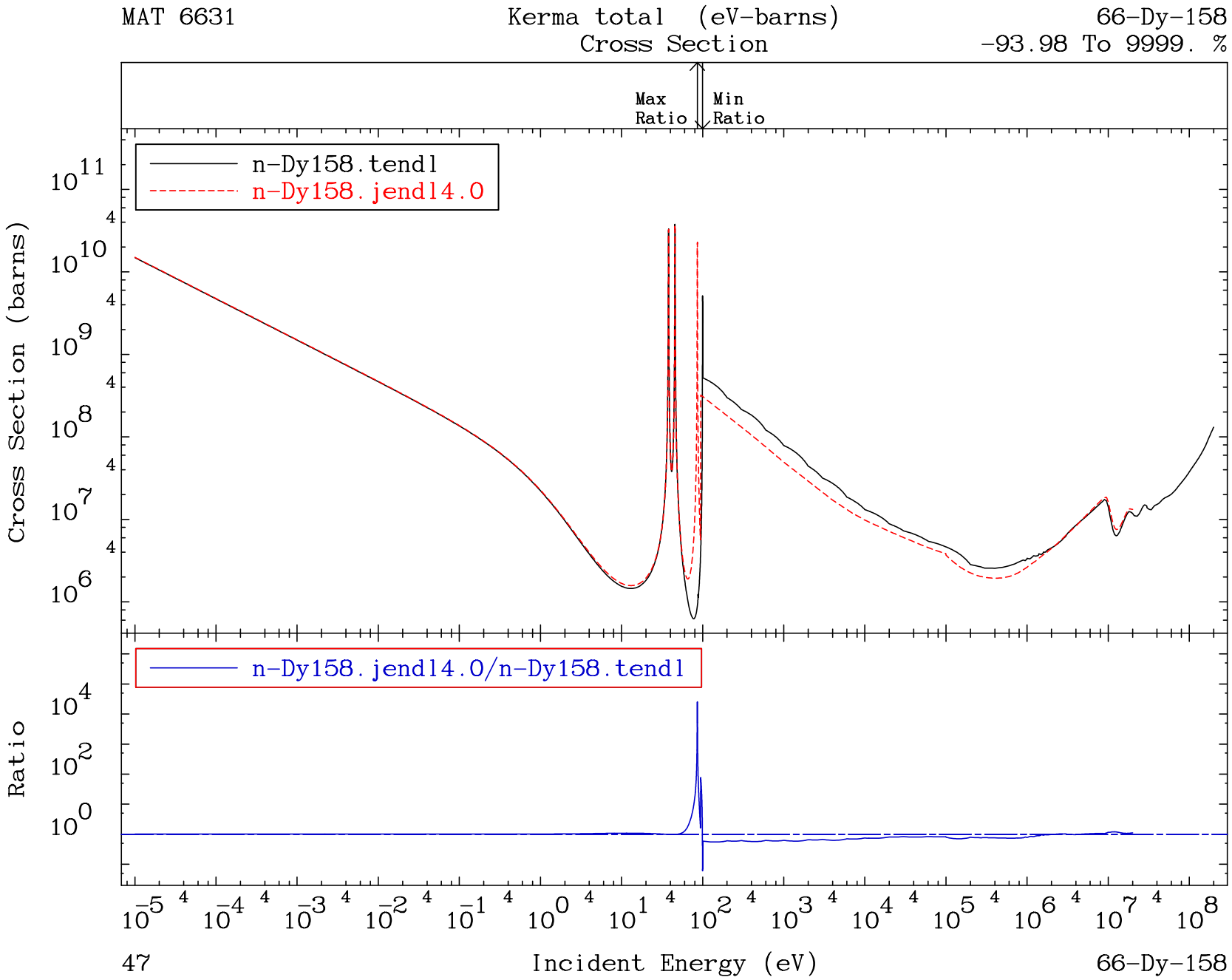

MAT 6631
Hydrogen Production
Cross Section
66-Dy-158
-73.83 To 588.3 %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 155.31 keV
n-Dy158.jendl4.0 Threshold 153.52 keV
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
42
66-Dy-158

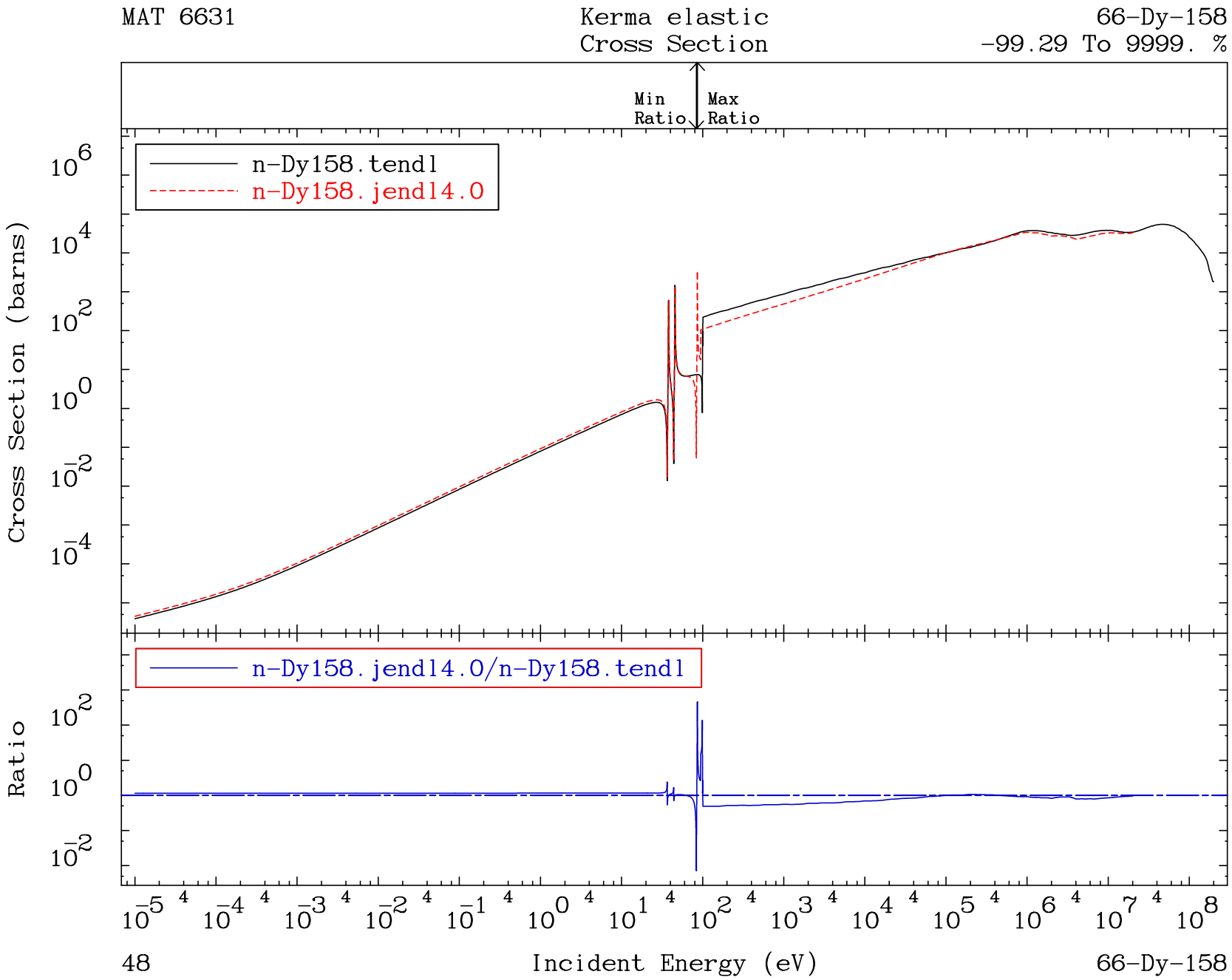

MAT 6631
Deuterium Production
Cross Section
66-Dy-158
-99.51 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 4.5584 MeV
n-Dy158.jendl4.0 Threshold 4.7359 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^4
10^2
10^0
10^-2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
66-Dy-158

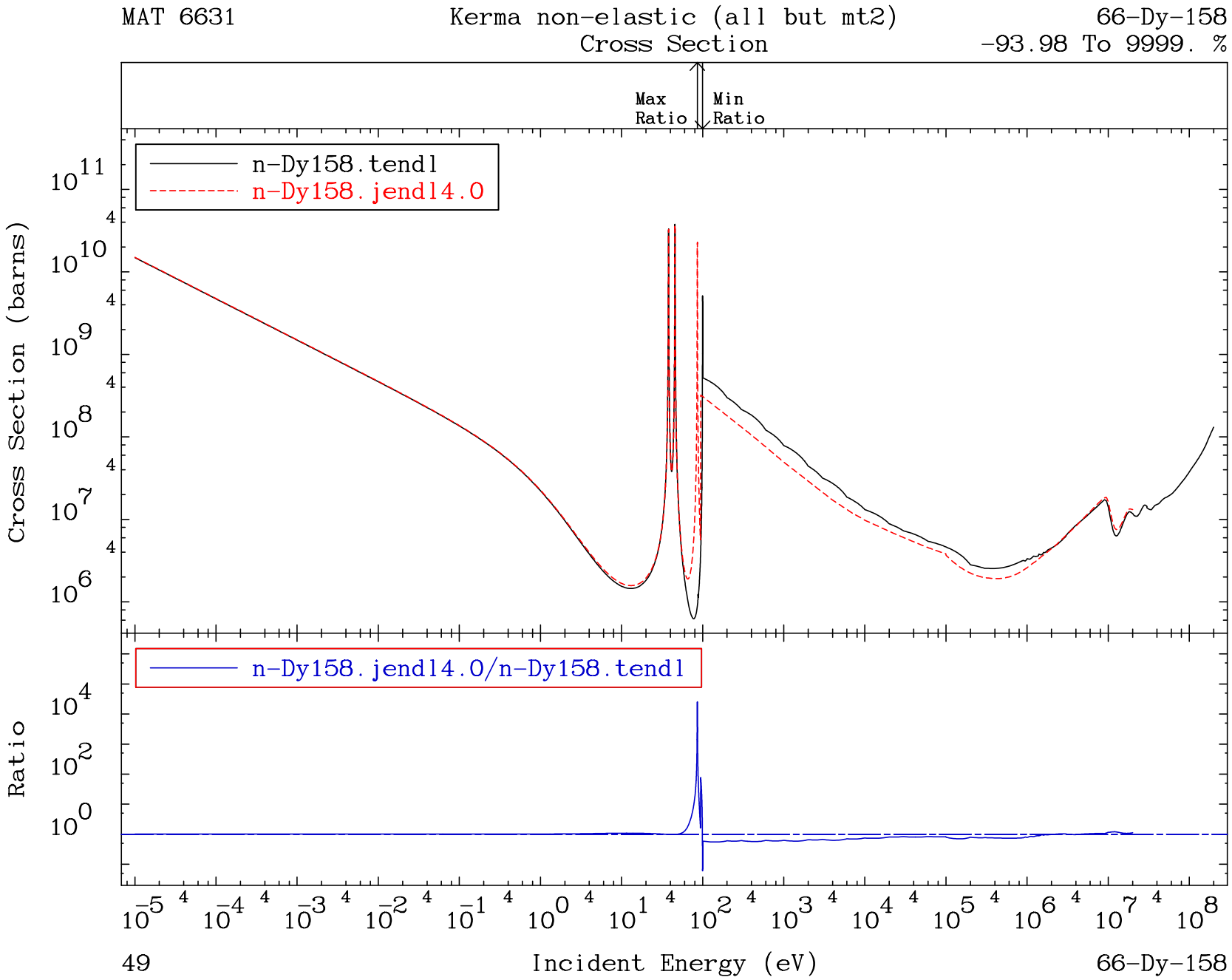

MAT 6631
Tritium Production
Cross Section
66-Dy-158
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 7.2410 MeV
n-Dy158.jendl4.0 Threshold 7.2390 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^4
10^0
10^-4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
66-Dy-158

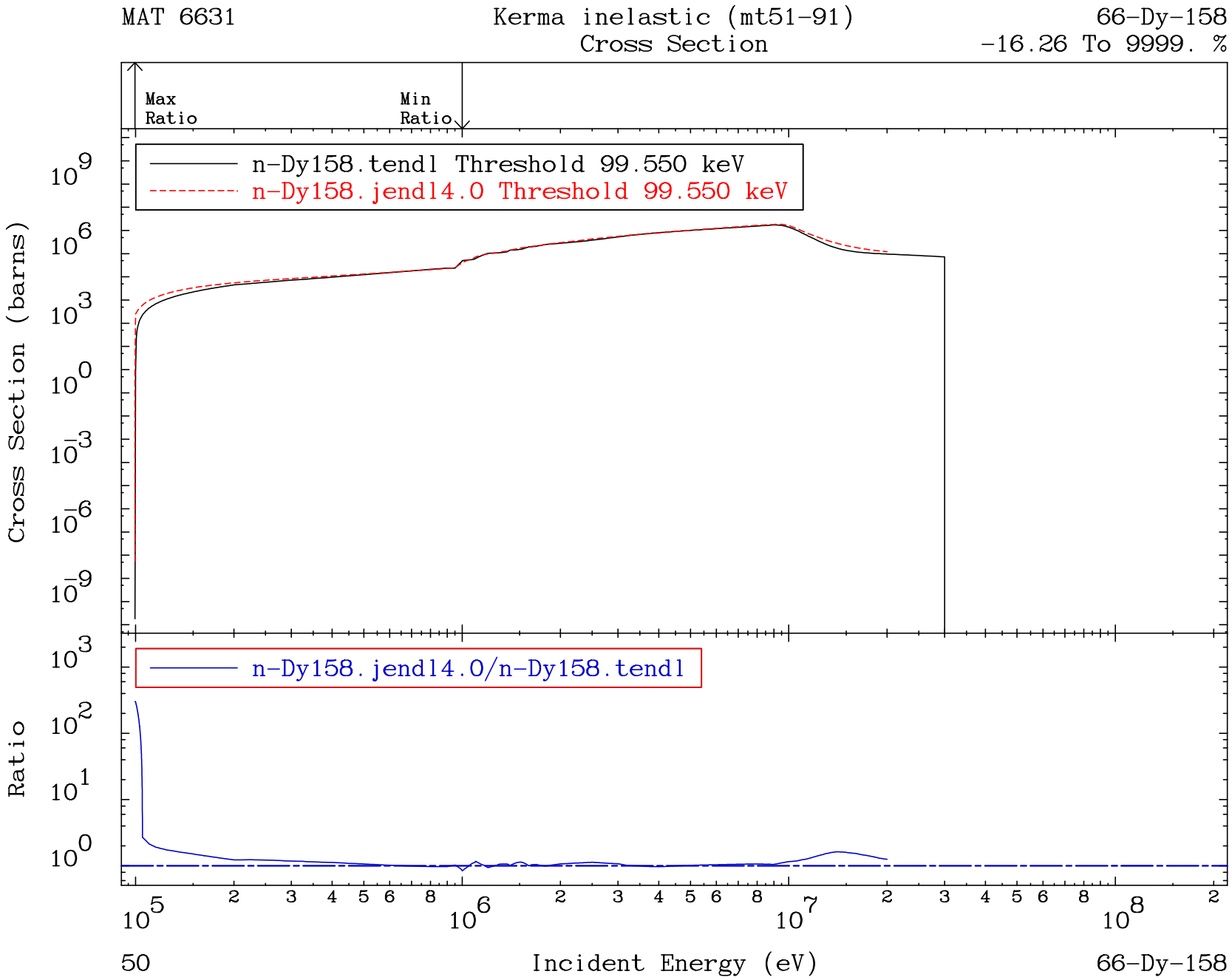

MAT 6631
He-3 Production
Cross Section
66-Dy-158
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 4.7625 MeV
n-Dy158.jendl4.0 Threshold 4.7600 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^6
10^0
10^-6
10^-12
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
66-Dy-158

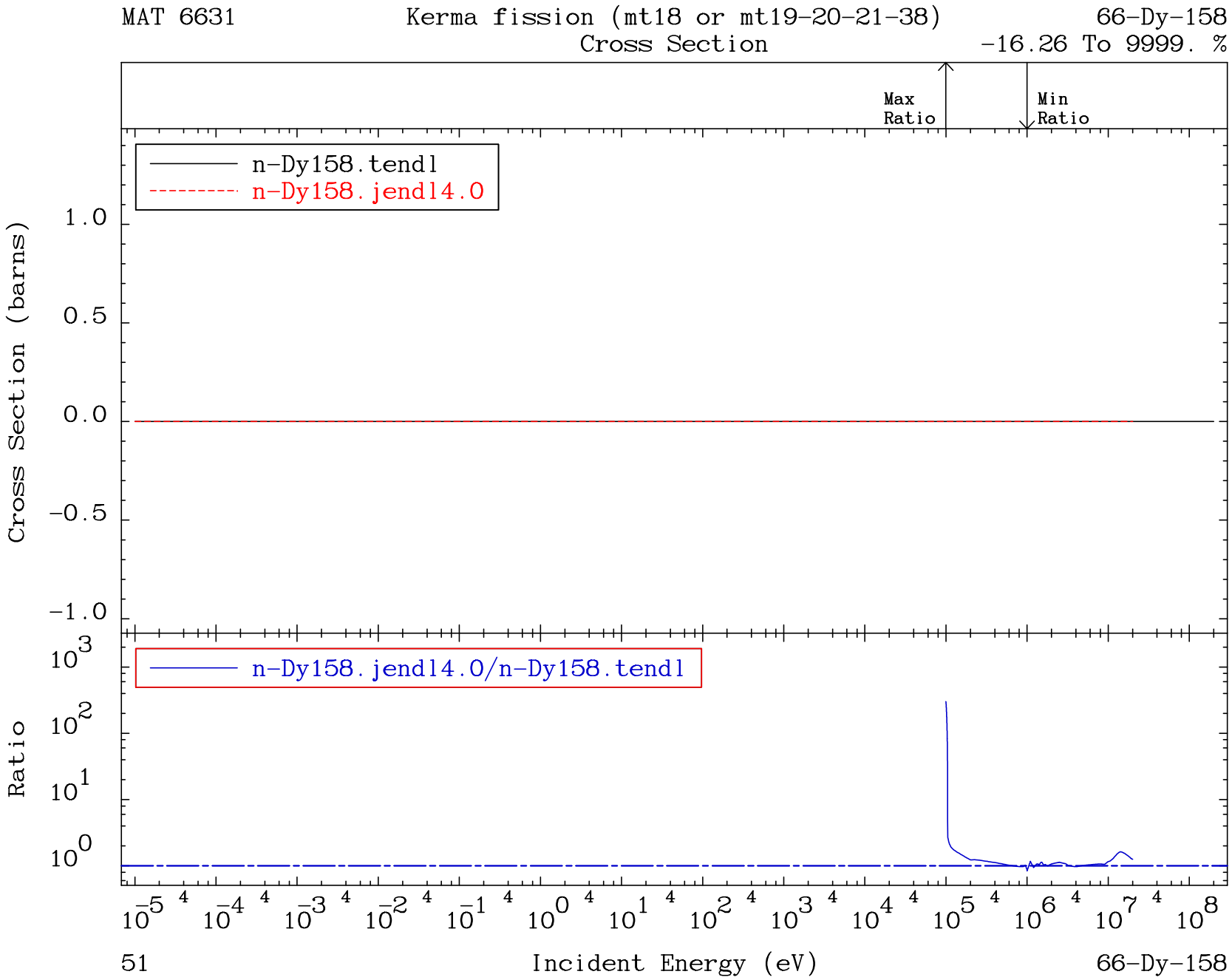

MAT 6631
He-4 Production
Cross Section
66-Dy-158
-99.76 To 8166. %
Min
Ratio
Max
Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
46
66-Dy-158

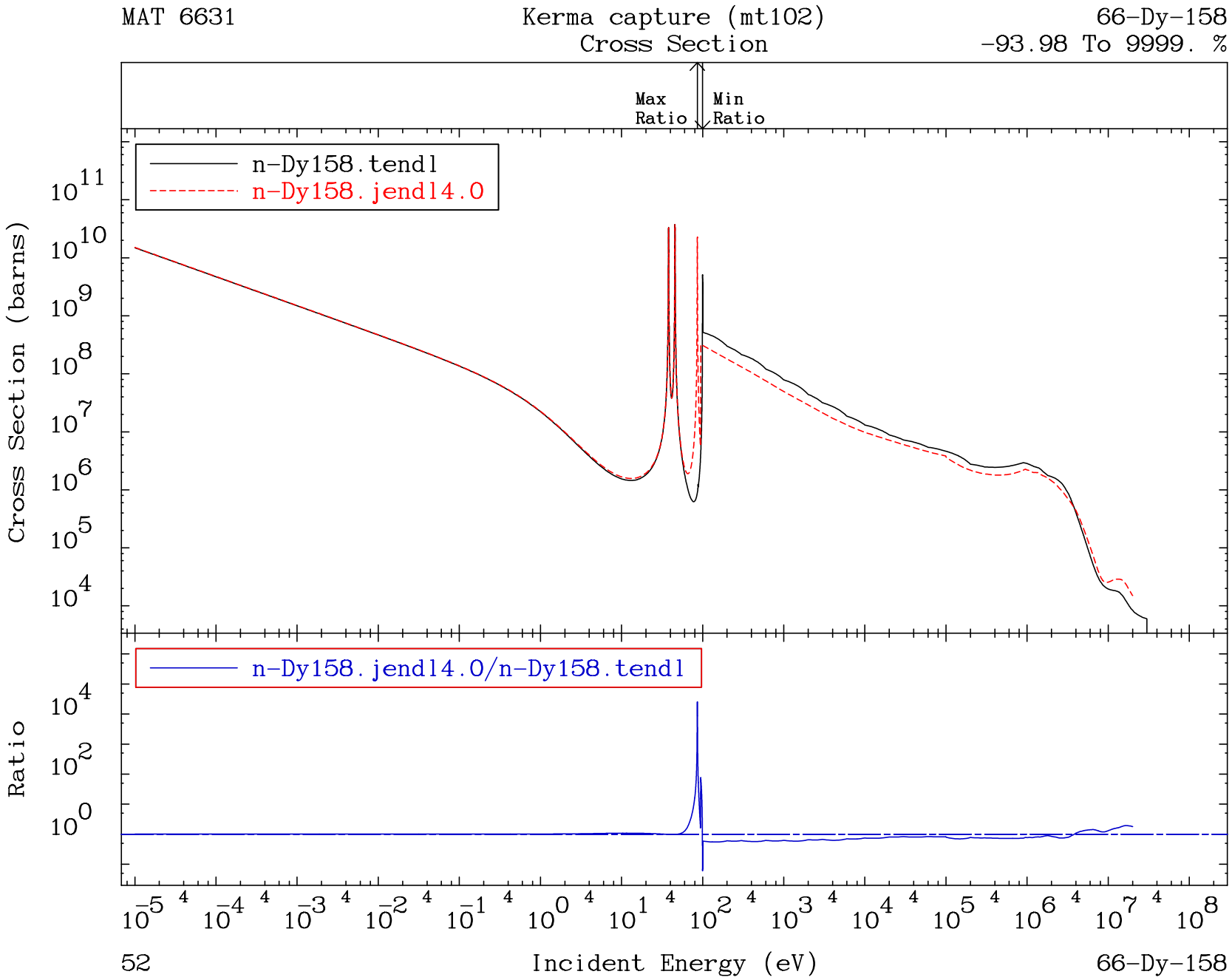

MAT 6631
Kerma total (eV-barns)
Cross Section
66-Dy-158
-93.98 To 9999. %
Max Ratio
Min Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
47
66-Dy-158

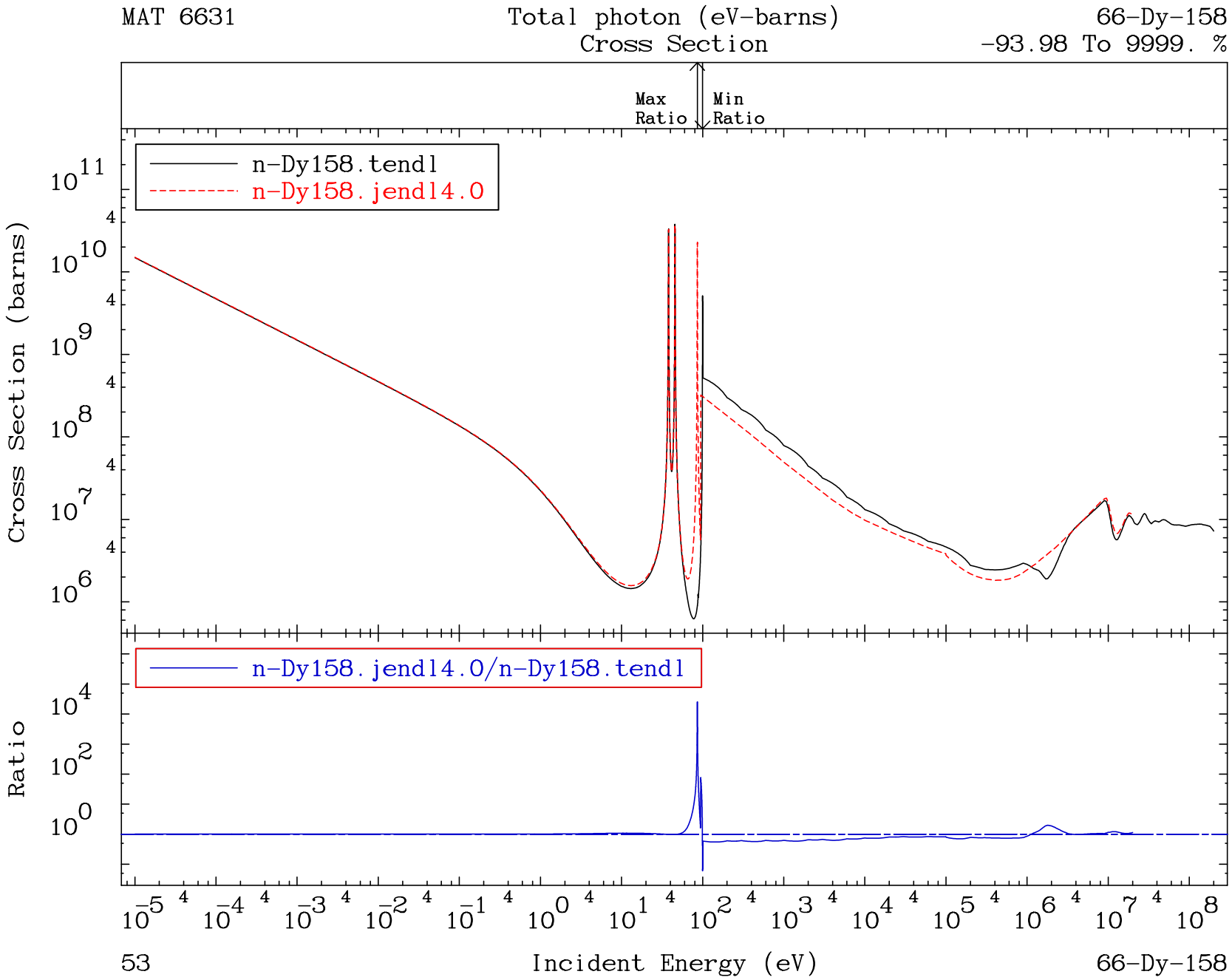

MAT 6631
Kerma elastic
Cross Section
66-Dy-158
-99.29 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
48
66-Dy-158

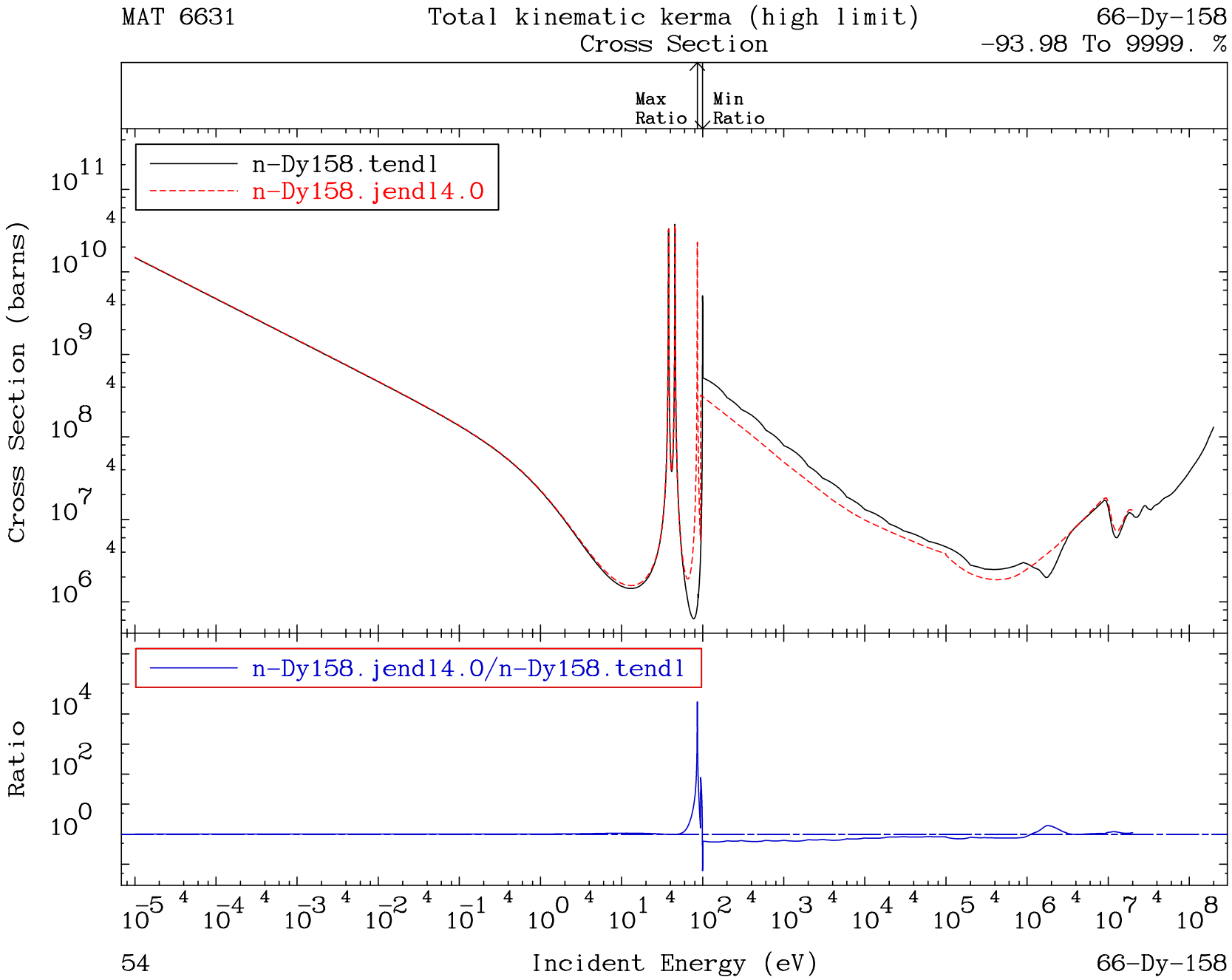

MAT 6631
Kerma non-elastic (all but mt2)
Cross Section
66-Dy-158
-93.98 To 9999. %
Max Ratio
Min Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
49
66-Dy-158

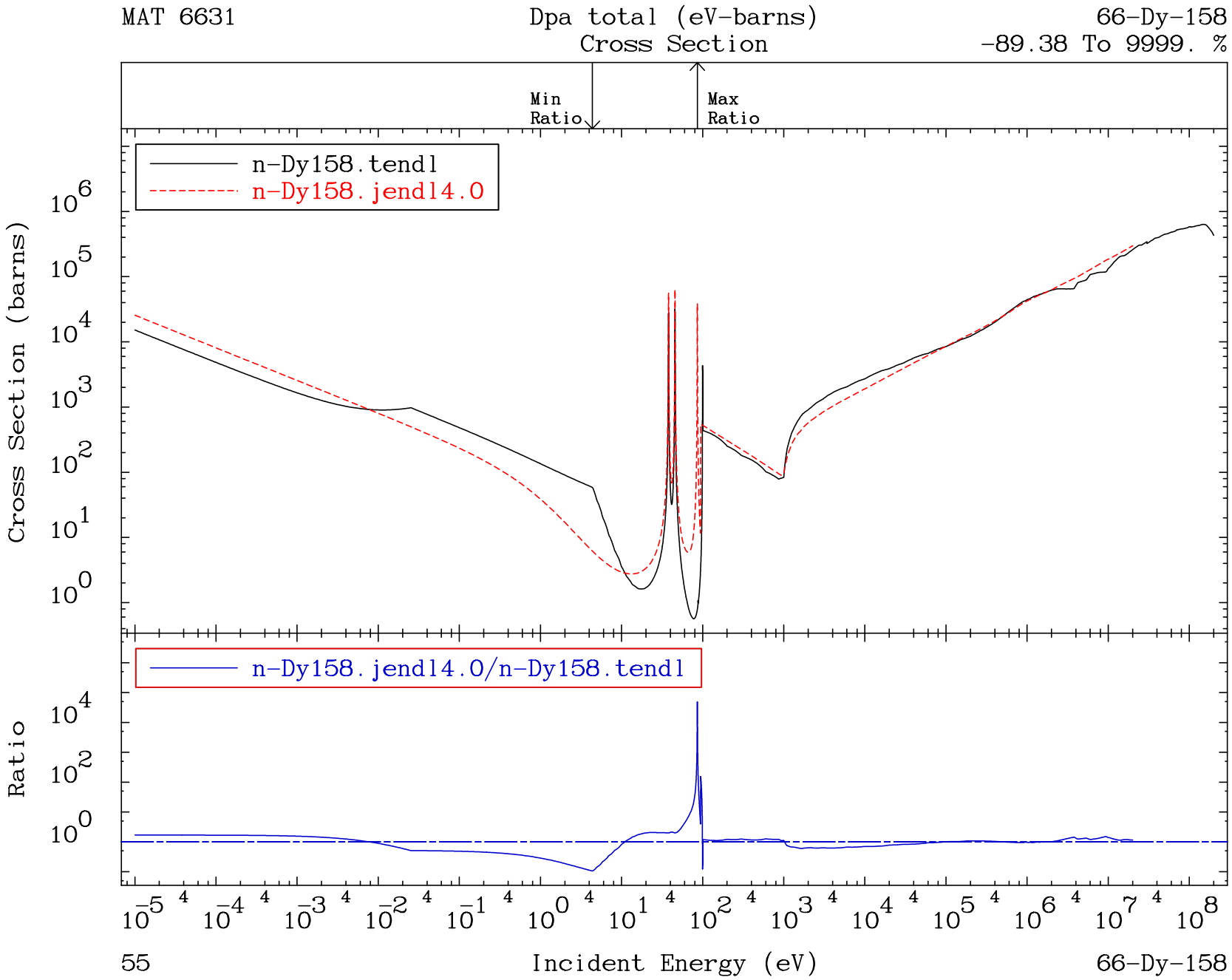

MAT 6631
Kerma inelastic (mt51-91)
Cross Section
66-Dy-158
-16.26 To 9999. %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 99.550 keV
n-Dy158.jendl4.0 Threshold 99.550 keV
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
50
66-Dy-158

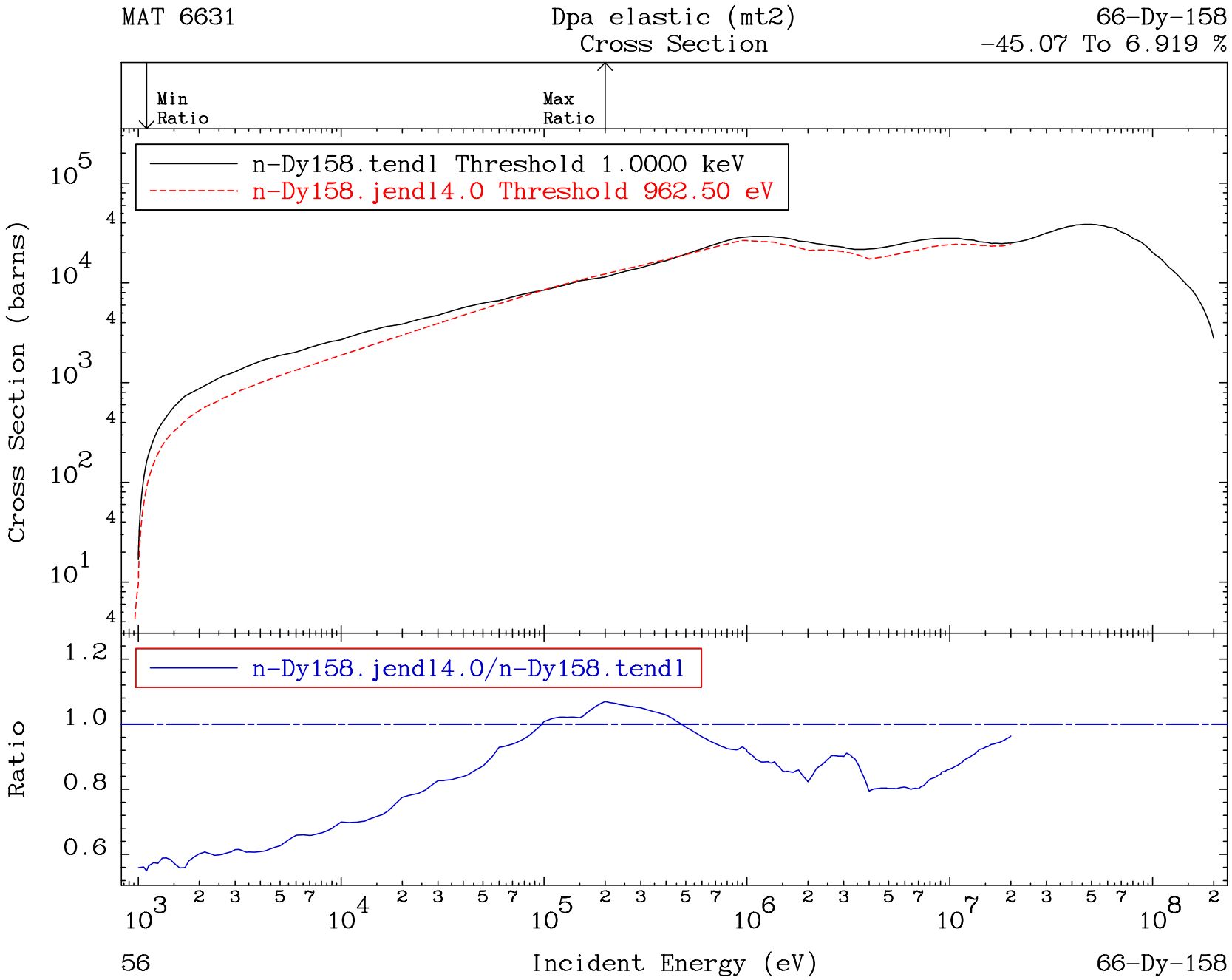

MAT 6631
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
66-Dy-158
-16.26 To 9999. %
Max Ratio
Min Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
10^3
10^2
10^1
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
51
Incident Energy (eV)
66-Dy-158

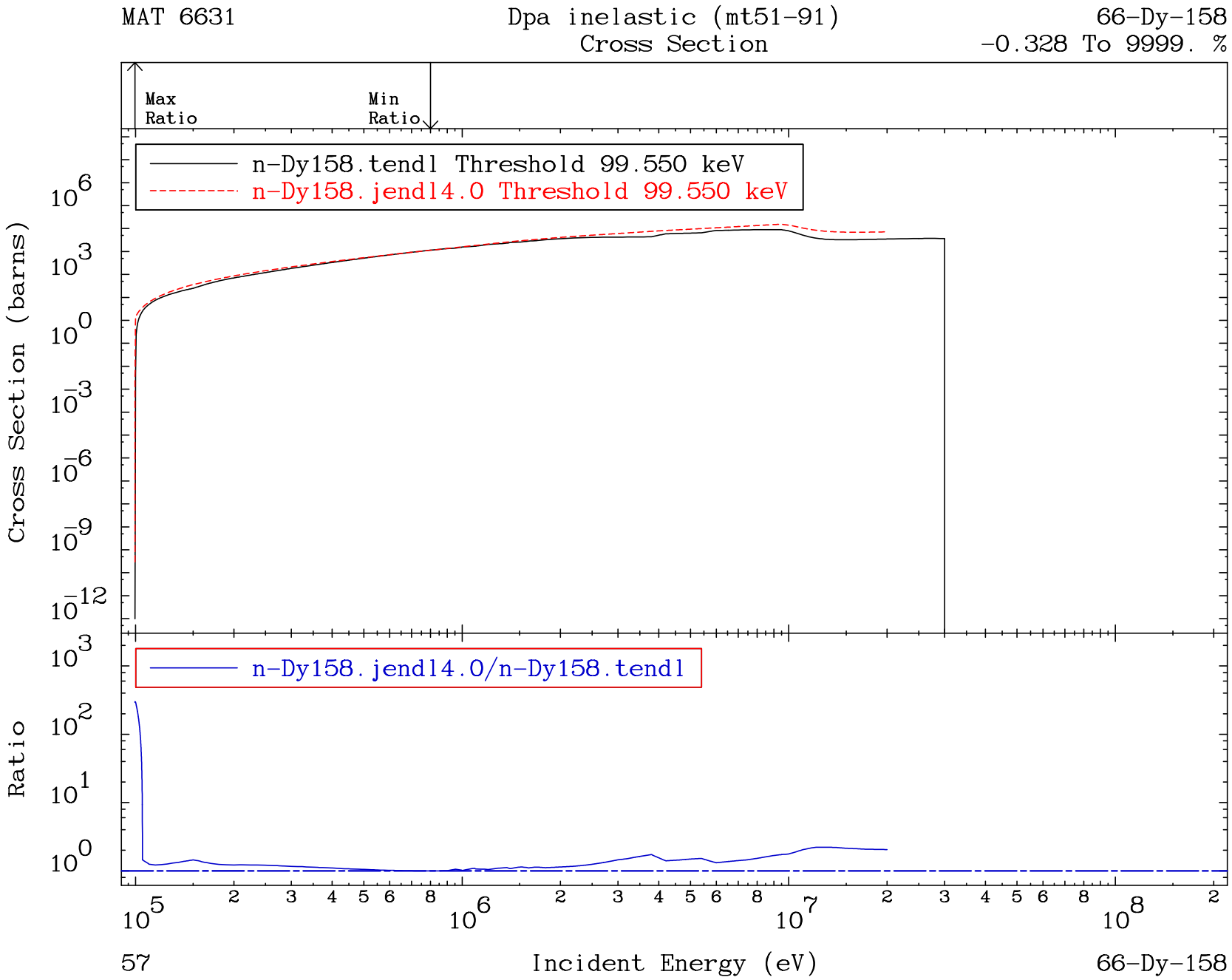

MAT 6631
Kerma capture (mt102)
Cross Section
66-Dy-158
-93.98 To 9999. %
Max Ratio
Min Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
52
66-Dy-158

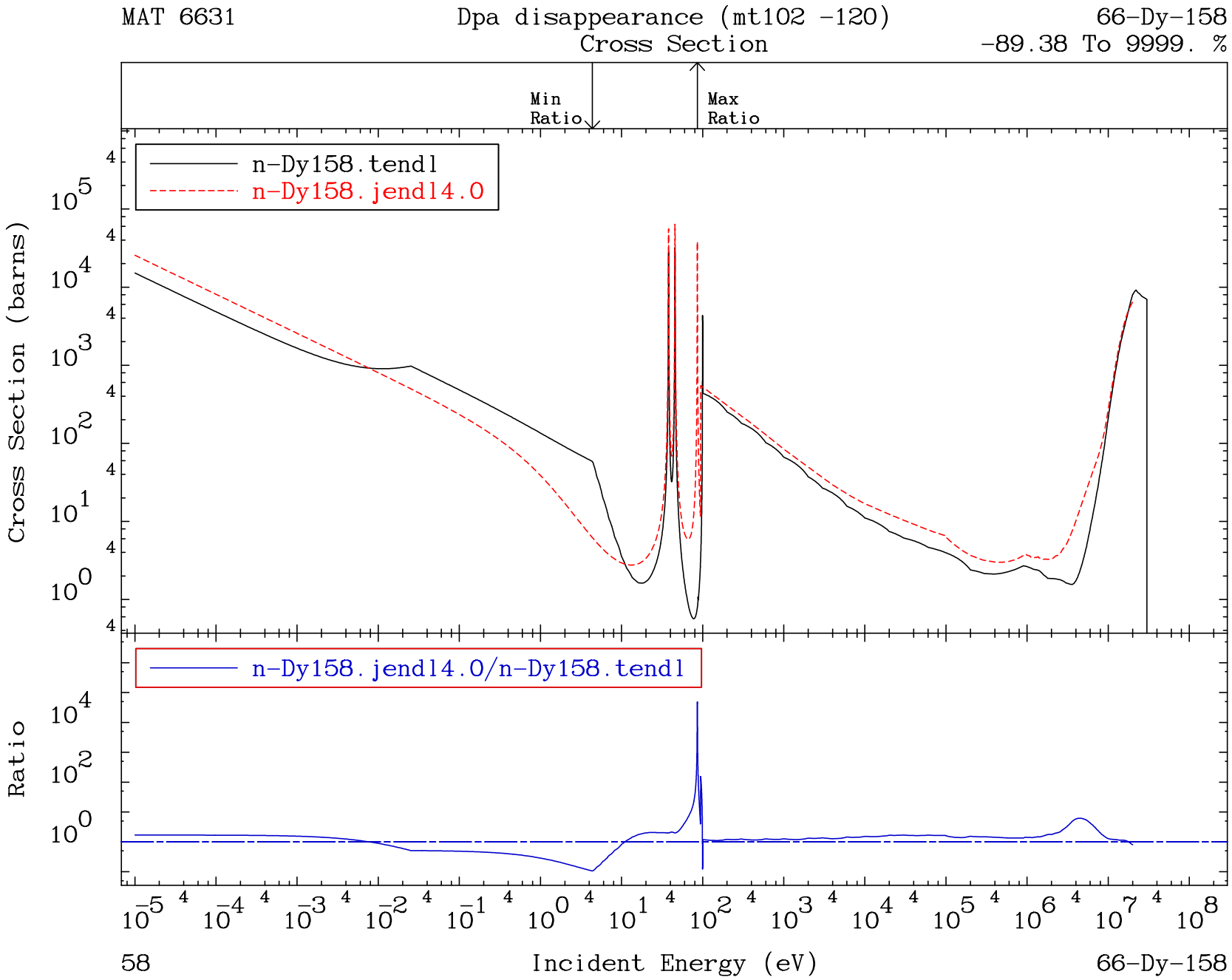

MAT 6631
Total photon (eV-barns)
Cross Section
66-Dy-158
-93.98 To 9999. %
Max Ratio
Min Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
53
66-Dy-158


MAT 6631
Total kinematic kerma (high limit)
Cross Section
66-Dy-158
-93.98 To 9999. %
Max Ratio
Min Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
54
66-Dy-158


MAT 6631
Dpa total (eV-barns)
Cross Section
66-Dy-158
-89.38 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
55
66-Dy-158


MAT 6631
Dpa elastic (mt2)
Cross Section
66-Dy-158
-45.07 To 6.919 %
Min Ratio
Max Ratio
n-Dy158.tendl Threshold 1.0000 keV
n-Dy158.jendl4.0 Threshold 962.50 eV
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
56
66-Dy-158


MAT 6631
Dpa inelastic (mt51-91)
Cross Section
66-Dy-158
-0.328 To 9999. %
Max Ratio
Min Ratio
n-Dy158.tendl Threshold 99.550 keV
n-Dy158.jendl4.0 Threshold 99.550 keV
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
Incident Energy (eV)
57
66-Dy-158


MAT 6631
Dpa disappearance (mt102 -120)
Cross Section
66-Dy-158
-89.38 To 9999. %
Min Ratio
Max Ratio
n-Dy158.tendl
n-Dy158.jendl4.0
Cross Section (barns)
n-Dy158.jendl4.0/n-Dy158.tendl
Ratio
58
Incident Energy (eV)
66-Dy-158