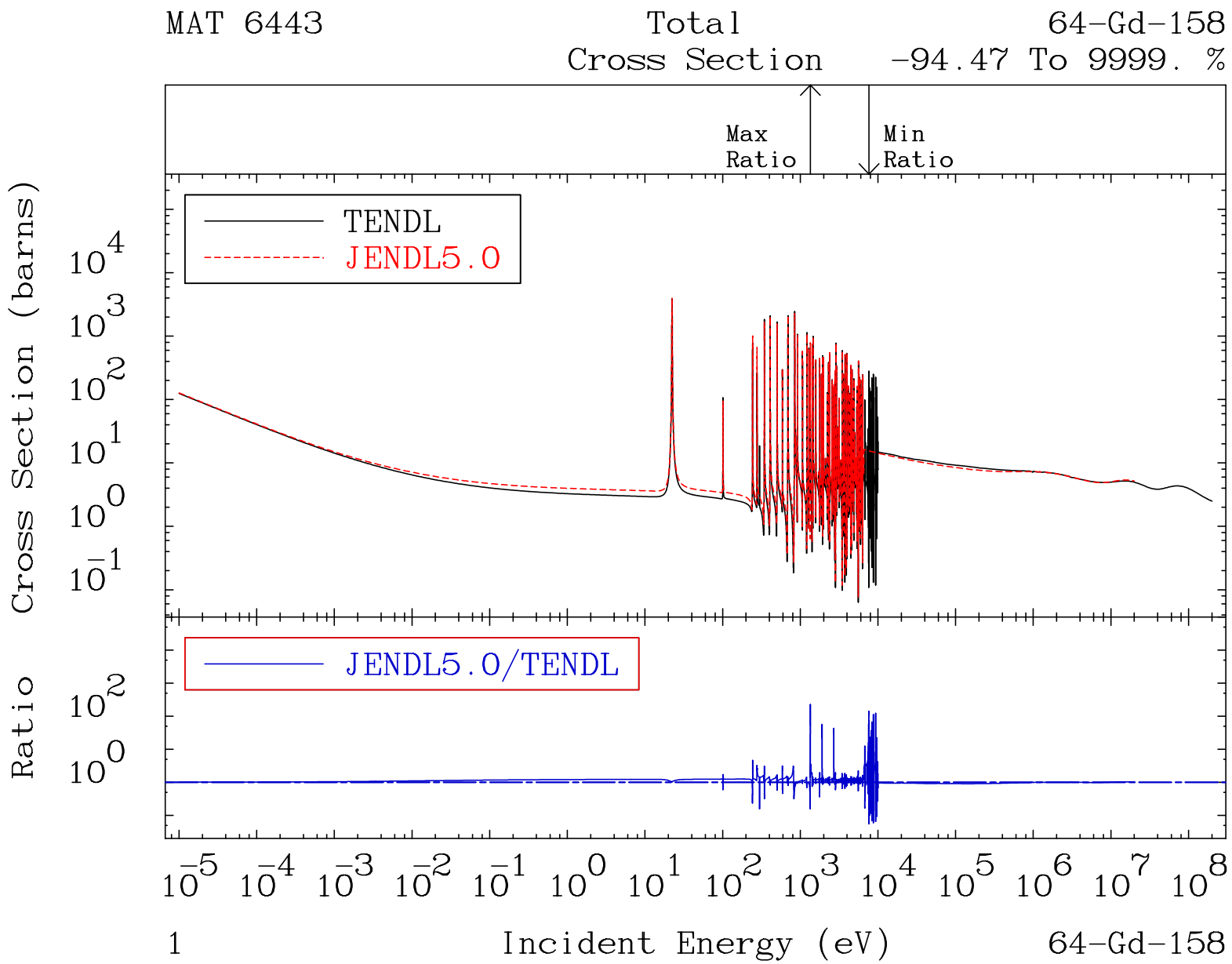
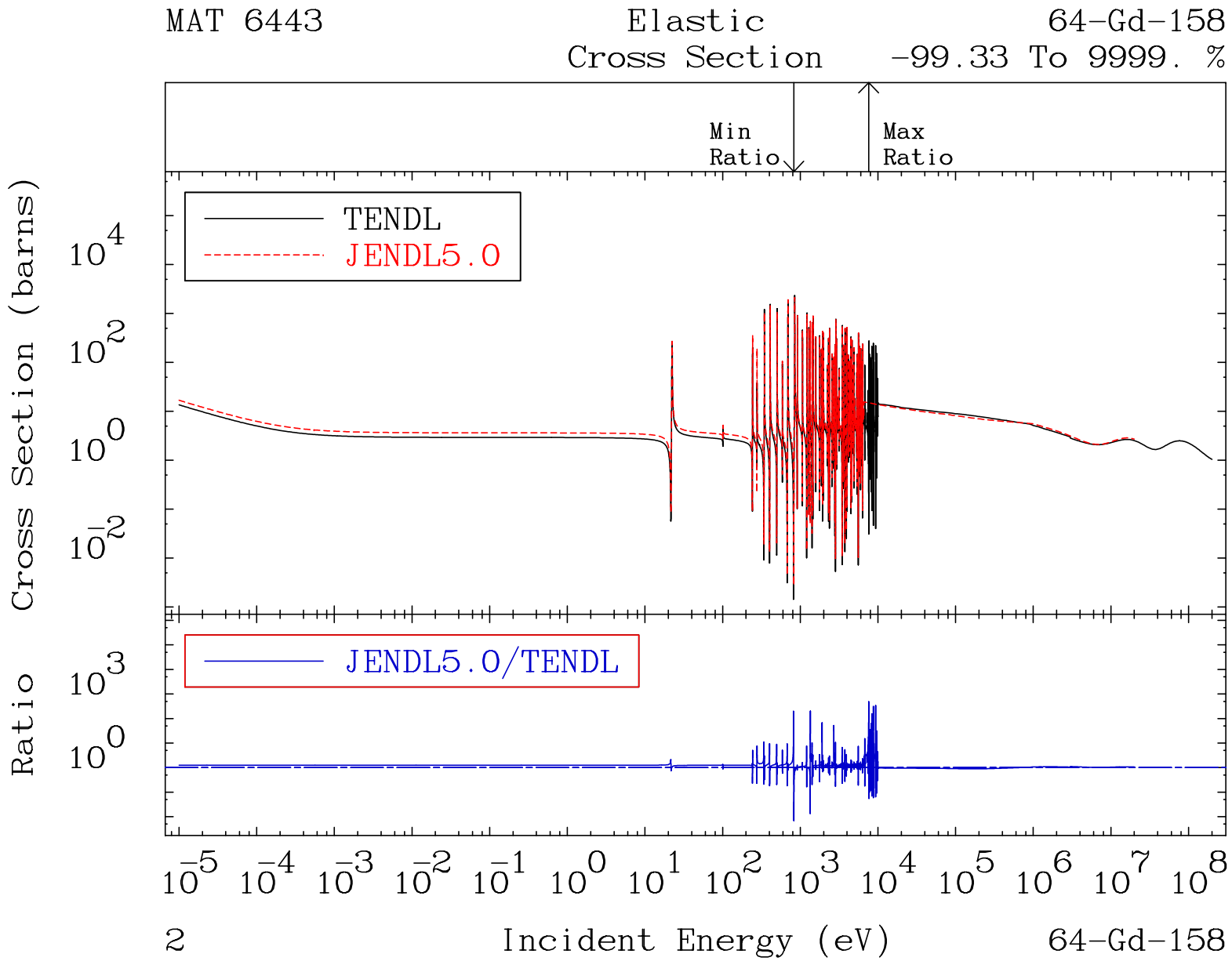
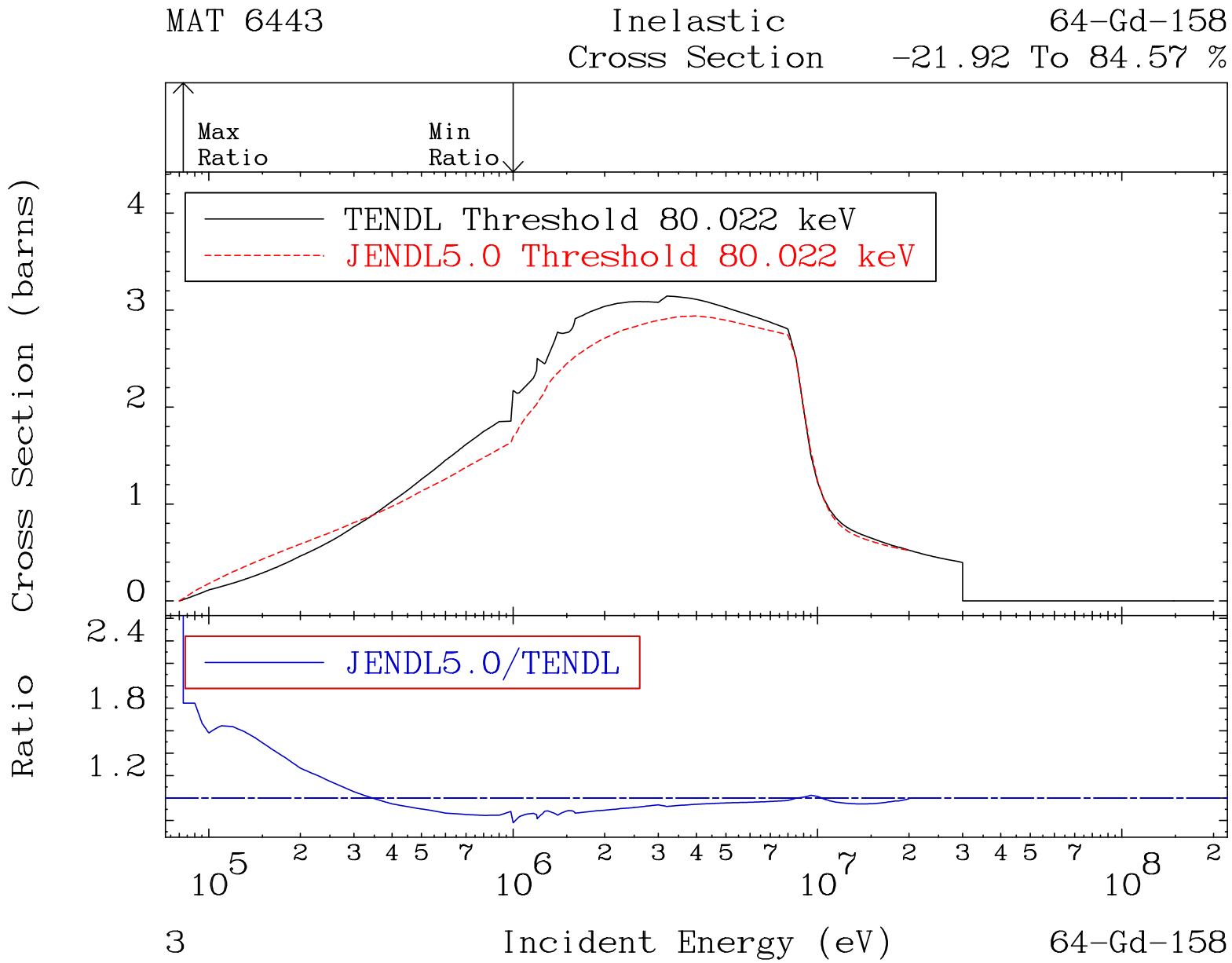
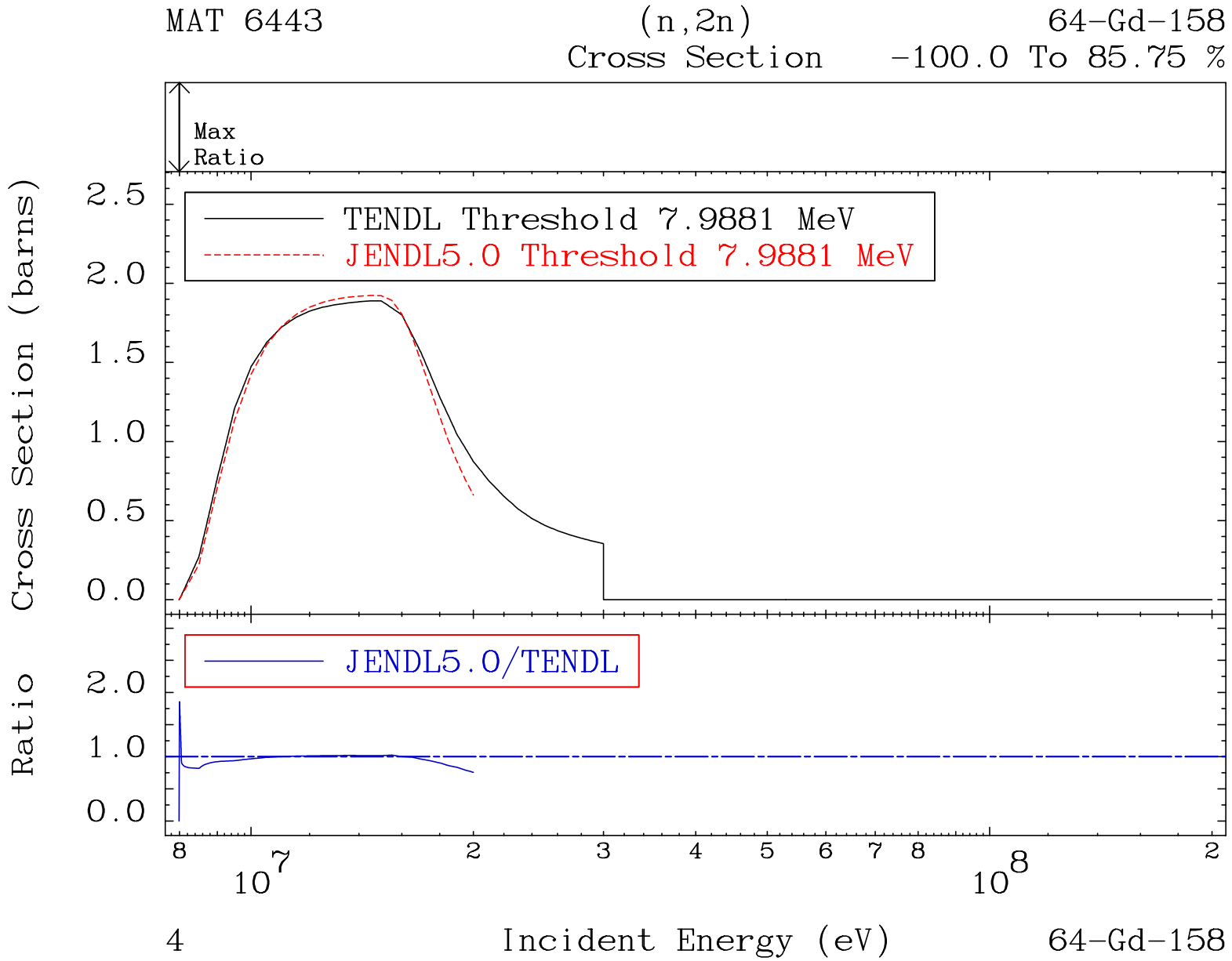
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

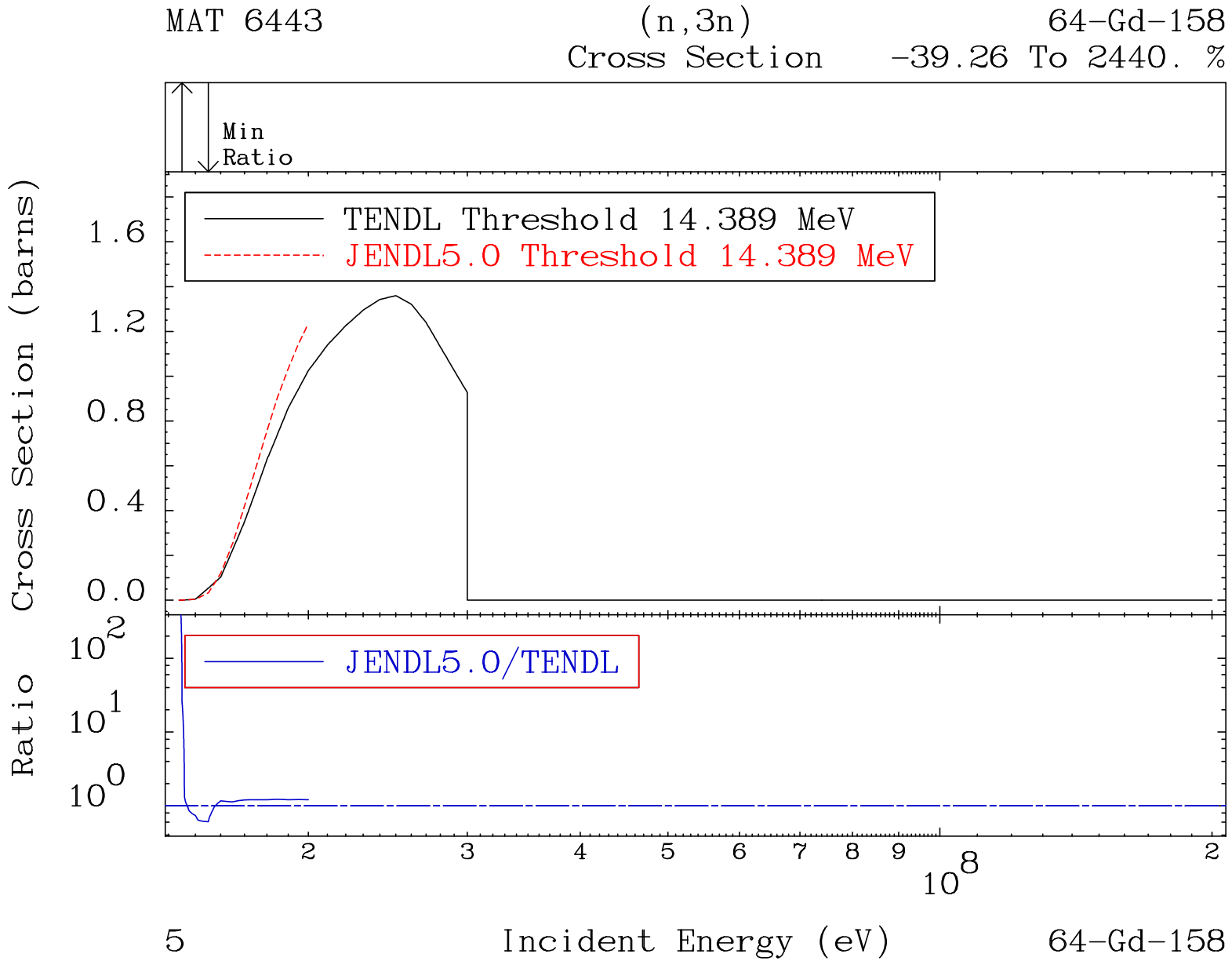
Press Mouse Button to Start

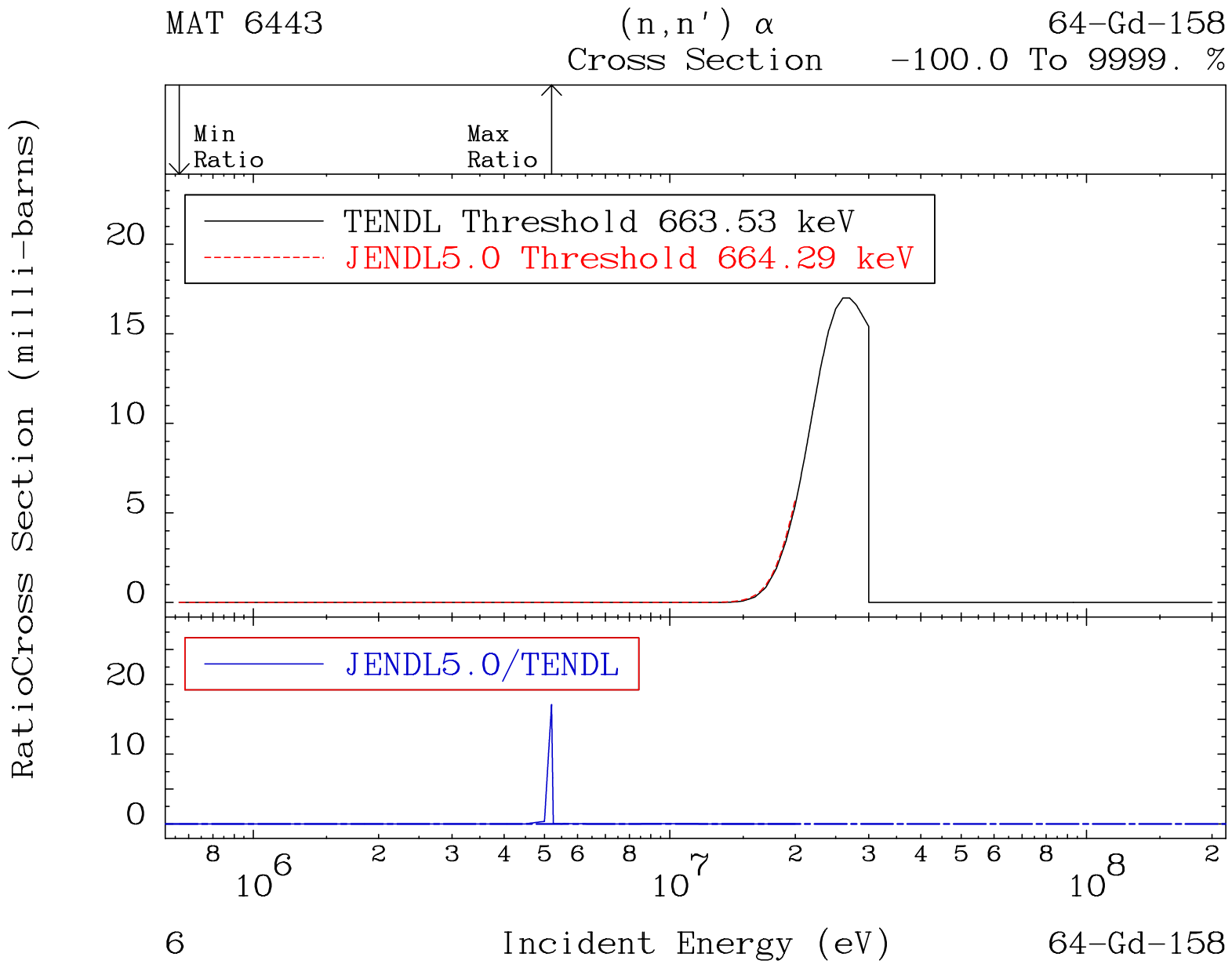

MAT 6443
Total
Cross Section
64-Gd-158
-94.47 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
64-Gd-158
1

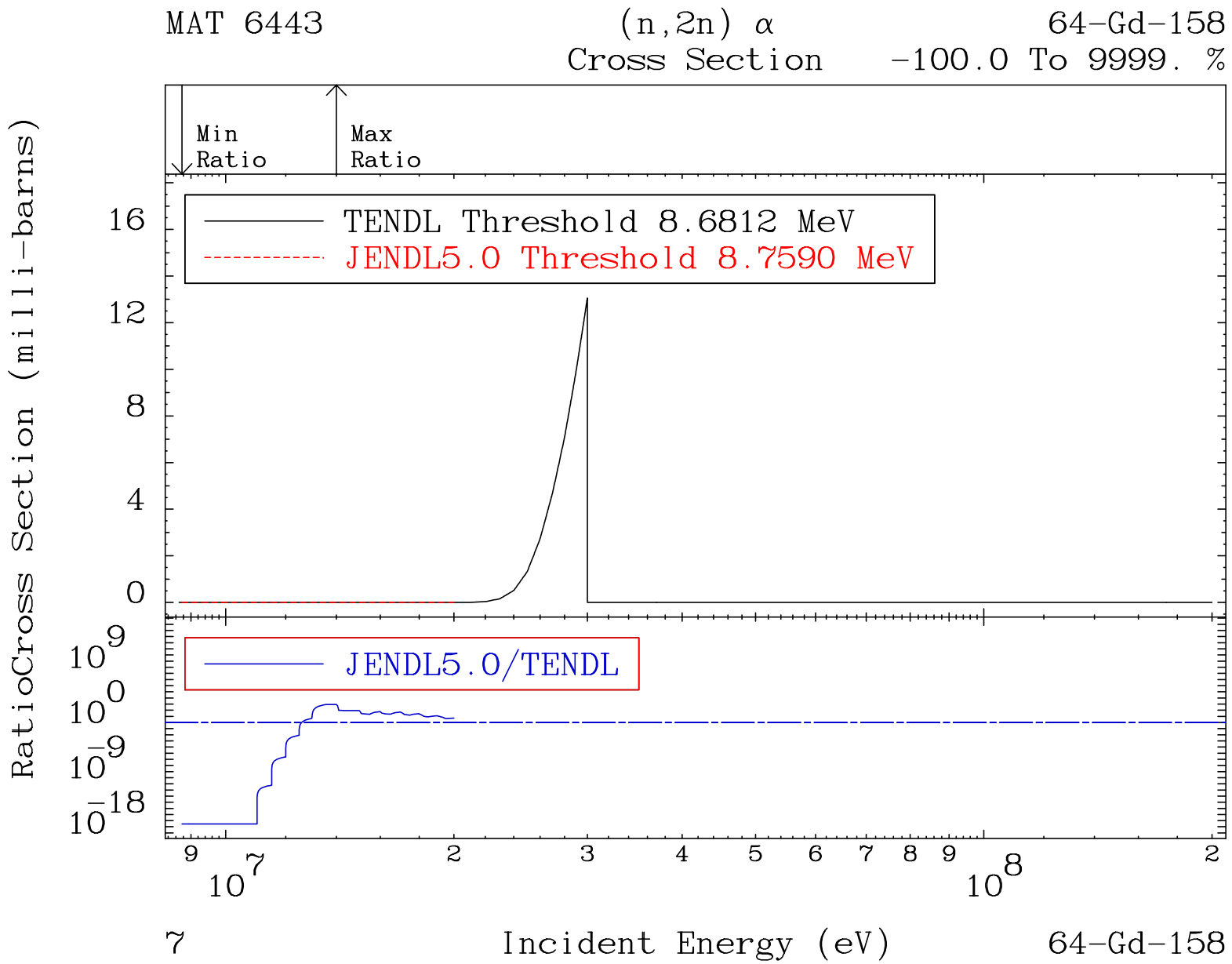

MAT 6443
Elastic
Cross Section
64-Gd-158
-99.33 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64-Gd-158
2

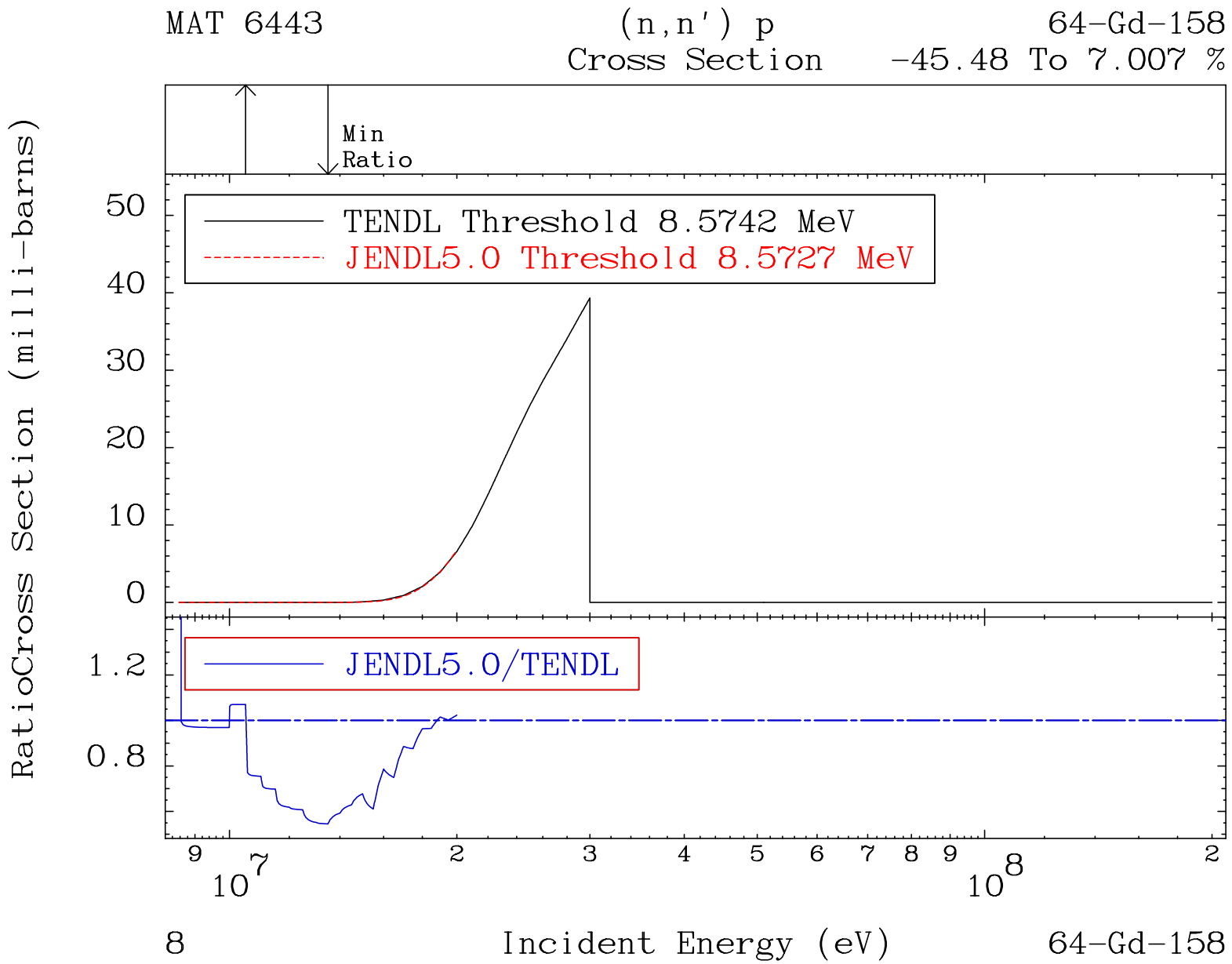

MAT 6443
Inelastic
Cross Section
64-Gd-158
-21.92 To 84.57 %
Max Ratio
Min Ratio
TENDL Threshold 80.022 keV
JENDL5.0 Threshold 80.022 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64-Gd-158
3

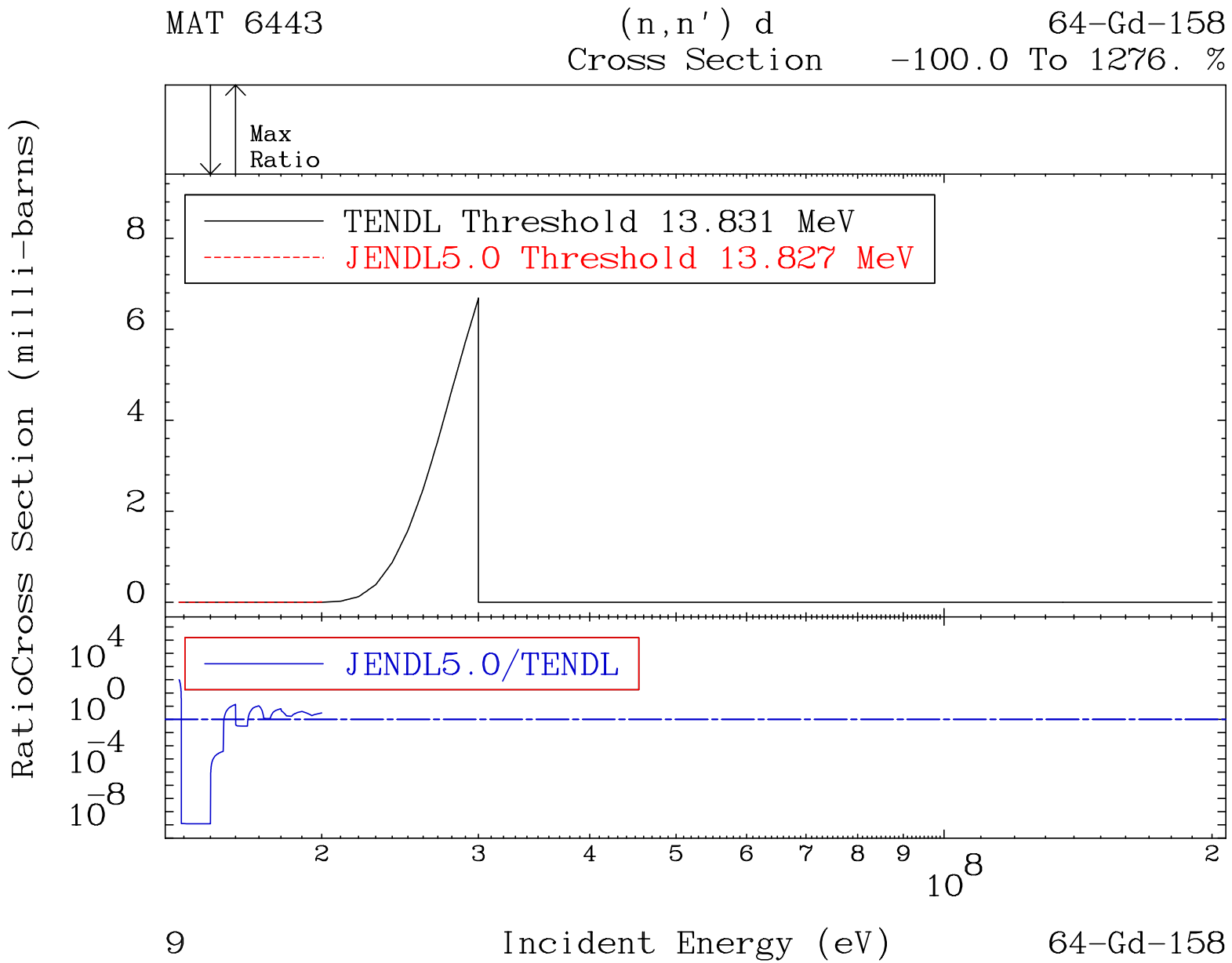

MAT 6443
(n,2n)
Cross Section
64-Gd-158
-100.0 To 85.75 %
Max
Ratio
TENDL Threshold 7.9881 MeV
JENDL5.0 Threshold 7.9881 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
Incident Energy (eV)
4
64-Gd-158

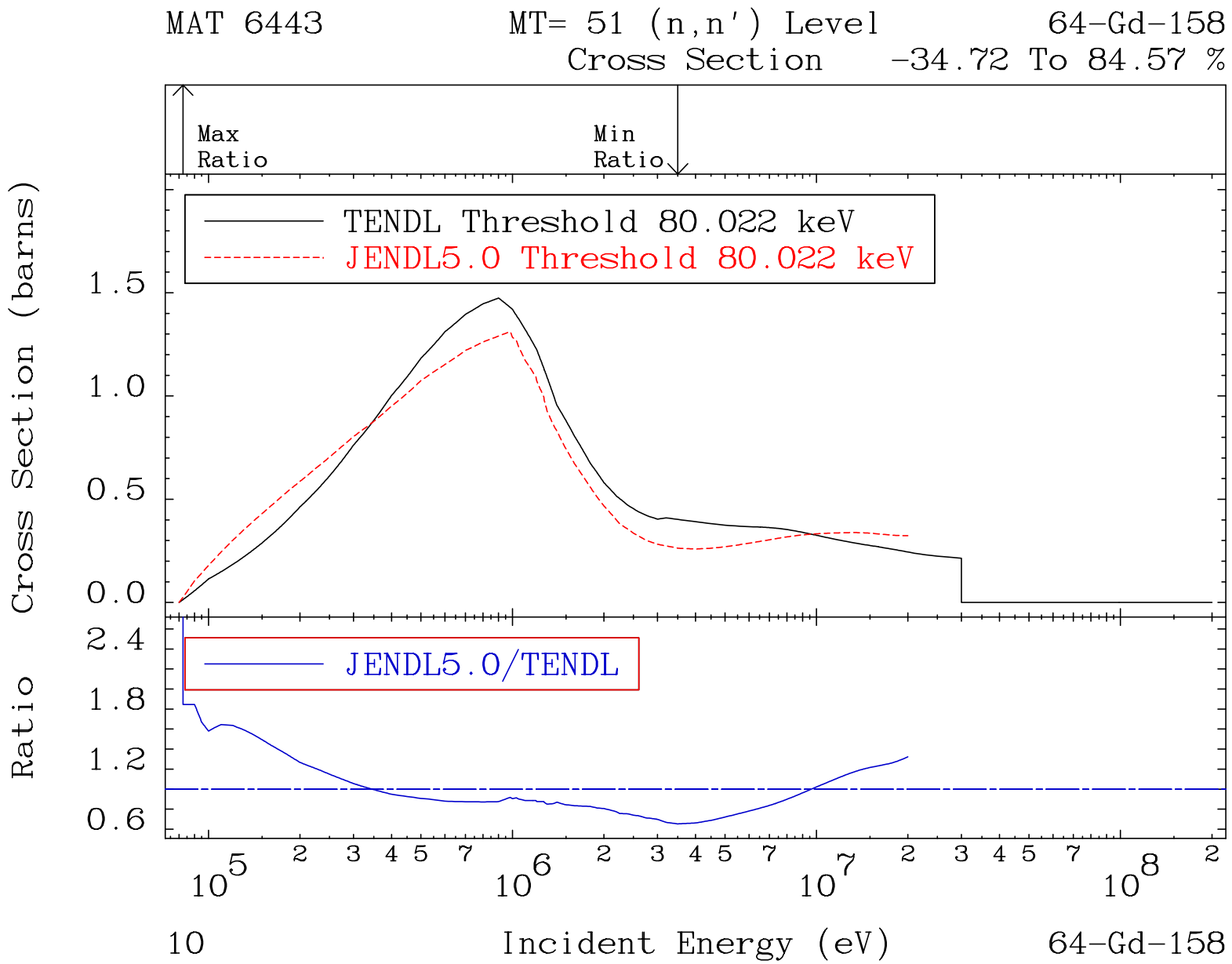

MAT 6443
(n,3n)
Cross Section
64-Gd-158
-39.26 To 2440. %
Min
Ratio
TENDL Threshold 14.389 MeV
JENDL5.0 Threshold 14.389 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
64-Gd-158

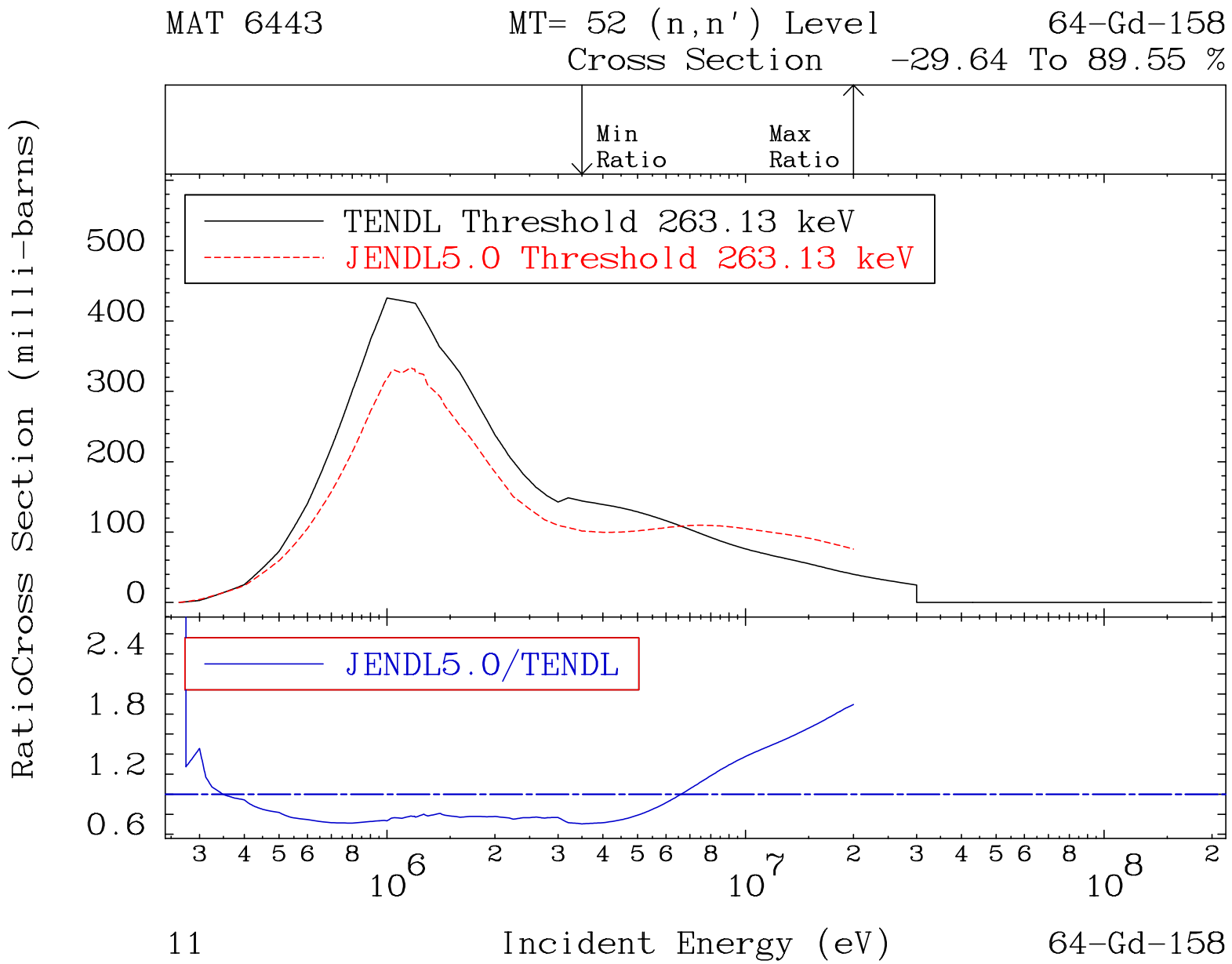

MAT 6443
(n,n') α
64-Gd-158
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 663.53 keV
JENDL5.0 Threshold 664.29 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
6
64-Gd-158

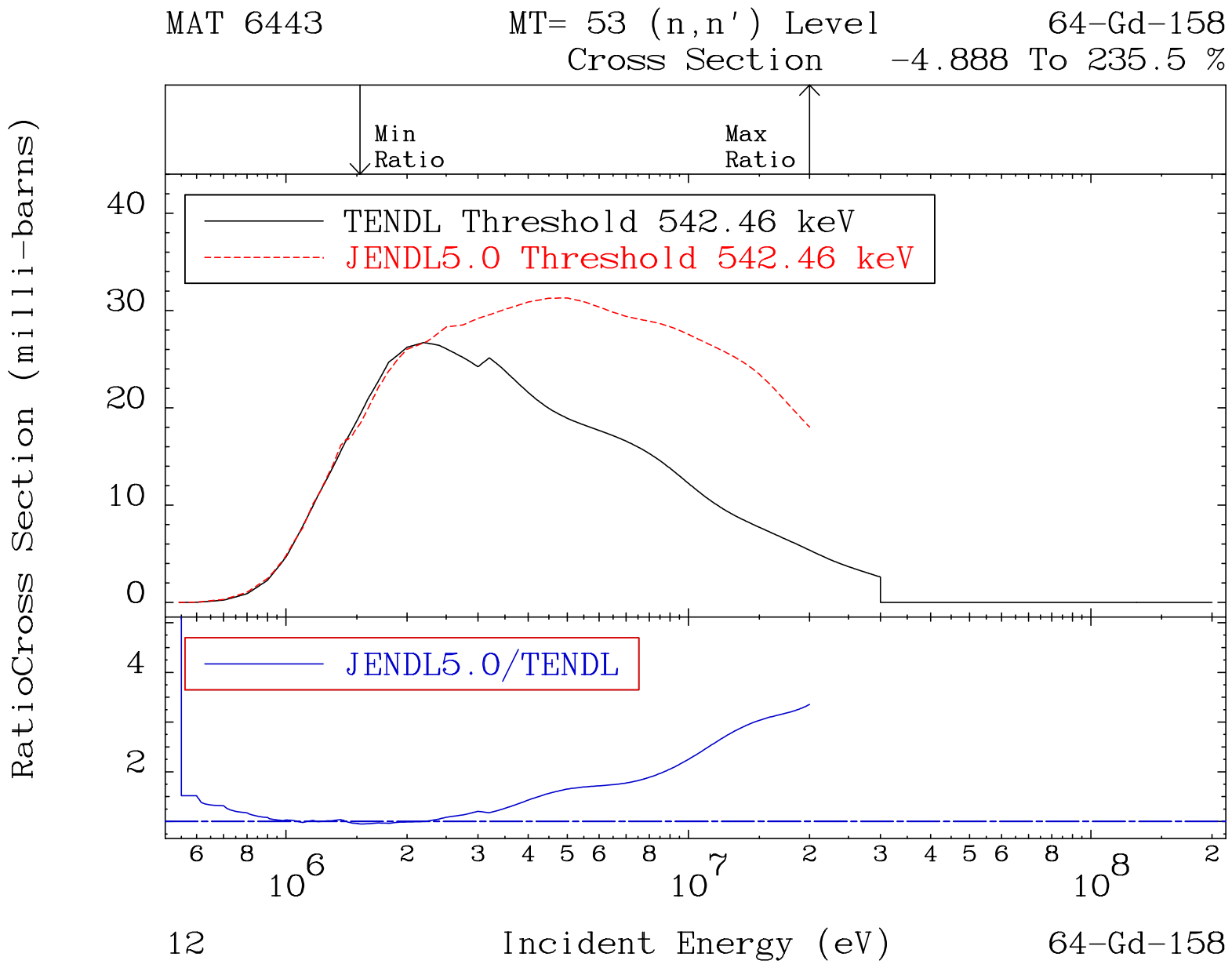

MAT 6443
(n,2n) α
64-Gd-158
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.6812 MeV
JENDL5.0 Threshold 8.7590 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
10^9
10^0
10^-9
10^-18
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
64-Gd-158

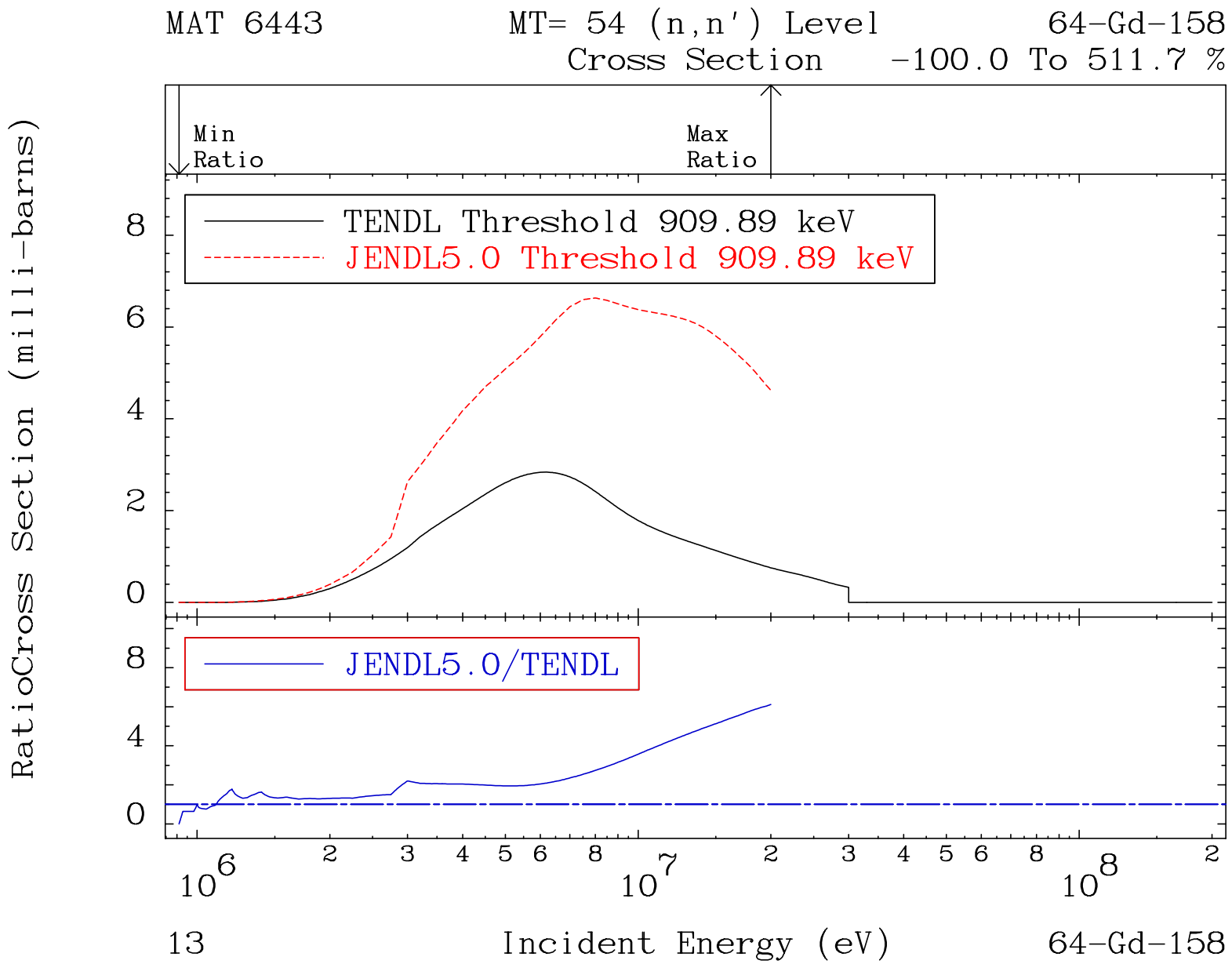

MAT 6443
(n,n') p
Cross Section
64-Gd-158
-45.48 To 7.007 %
Min
Ratio
TENDL Threshold 8.5742 MeV
JENDL5.0 Threshold 8.5727 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.2
0.8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
64-Gd-158

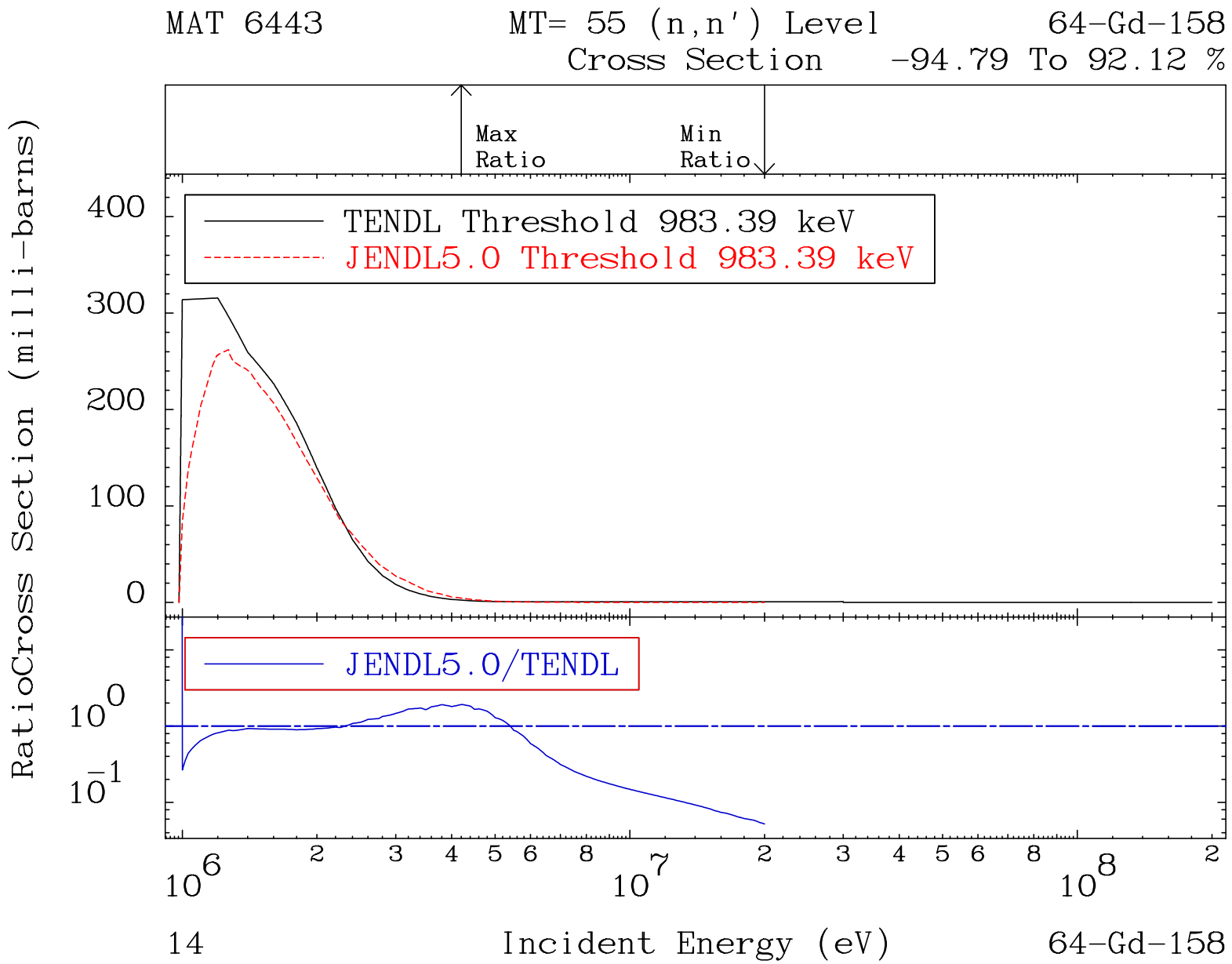

MAT 6443
(n,n') d
Cross Section
64-Gd-158
-100.0 To 1276. %
Max
Ratio
TENDL Threshold 13.831 MeV
JENDL5.0 Threshold 13.827 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
9
64-Gd-158

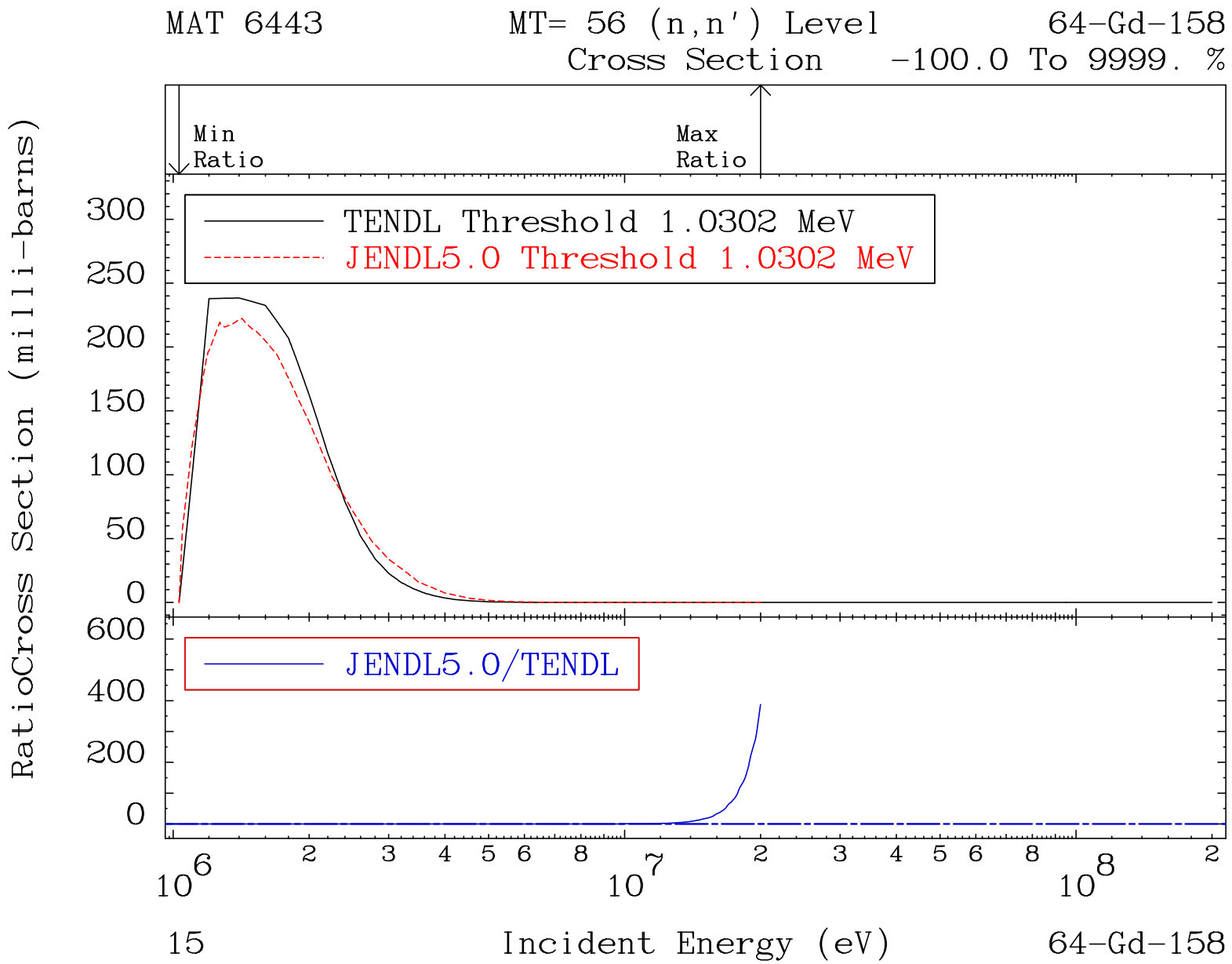

MAT 6443
MT= 51 (n,n') Level
64-Gd-158
Cross Section
-34.72 To 84.57 %
Max Ratio
Min Ratio
TENDL Threshold 80.022 keV
JENDL5.0 Threshold 80.022 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64-Gd-158

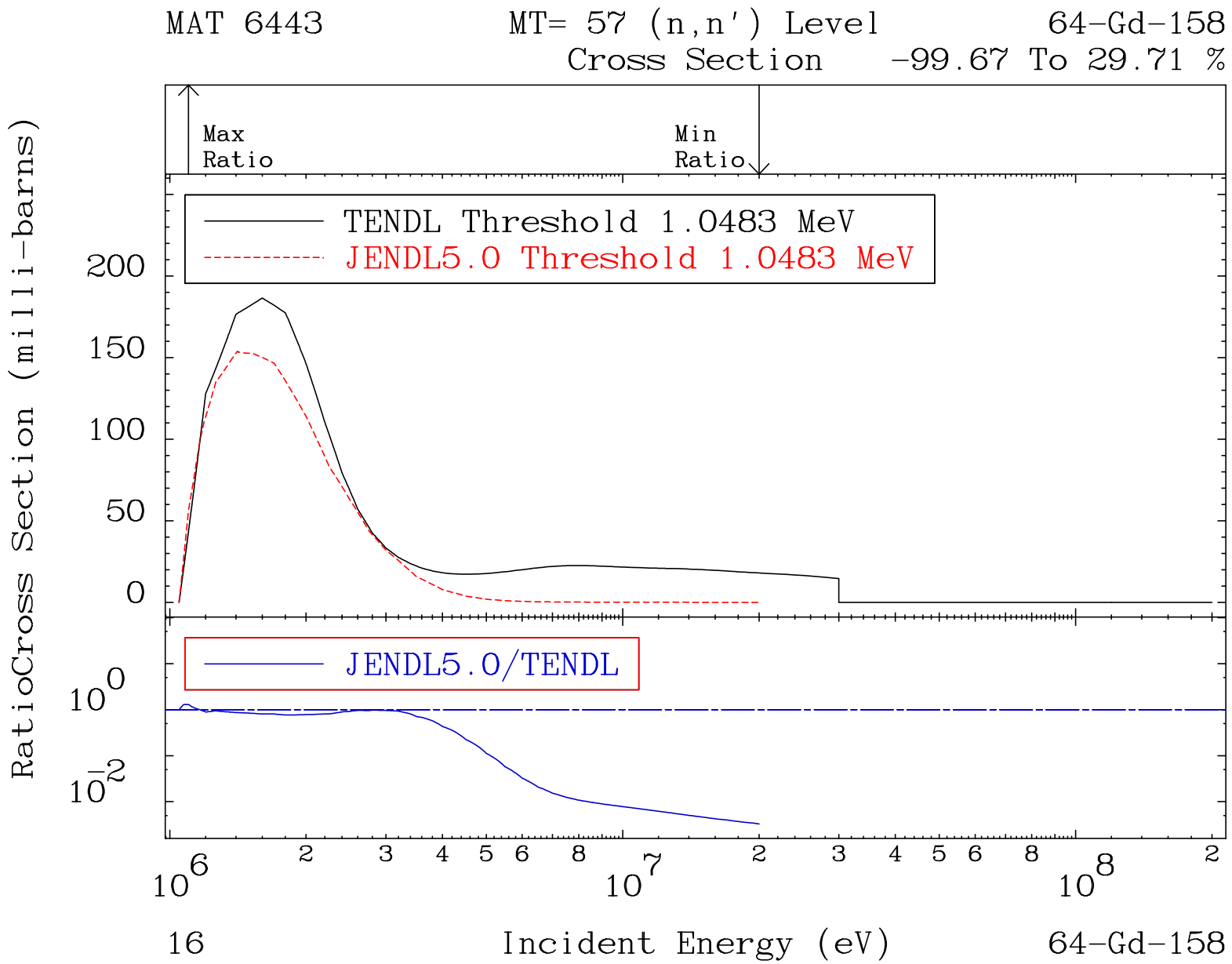

MAT 6443
MT= 52 (n,n') Level
64-Gd-158
Cross Section
-29.64 To 89.55 %
Min Ratio
Max Ratio
TENDL Threshold 263.13 keV
JENDL5.0 Threshold 263.13 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
2.4
1.8
1.2
0.6
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
64-Gd-158

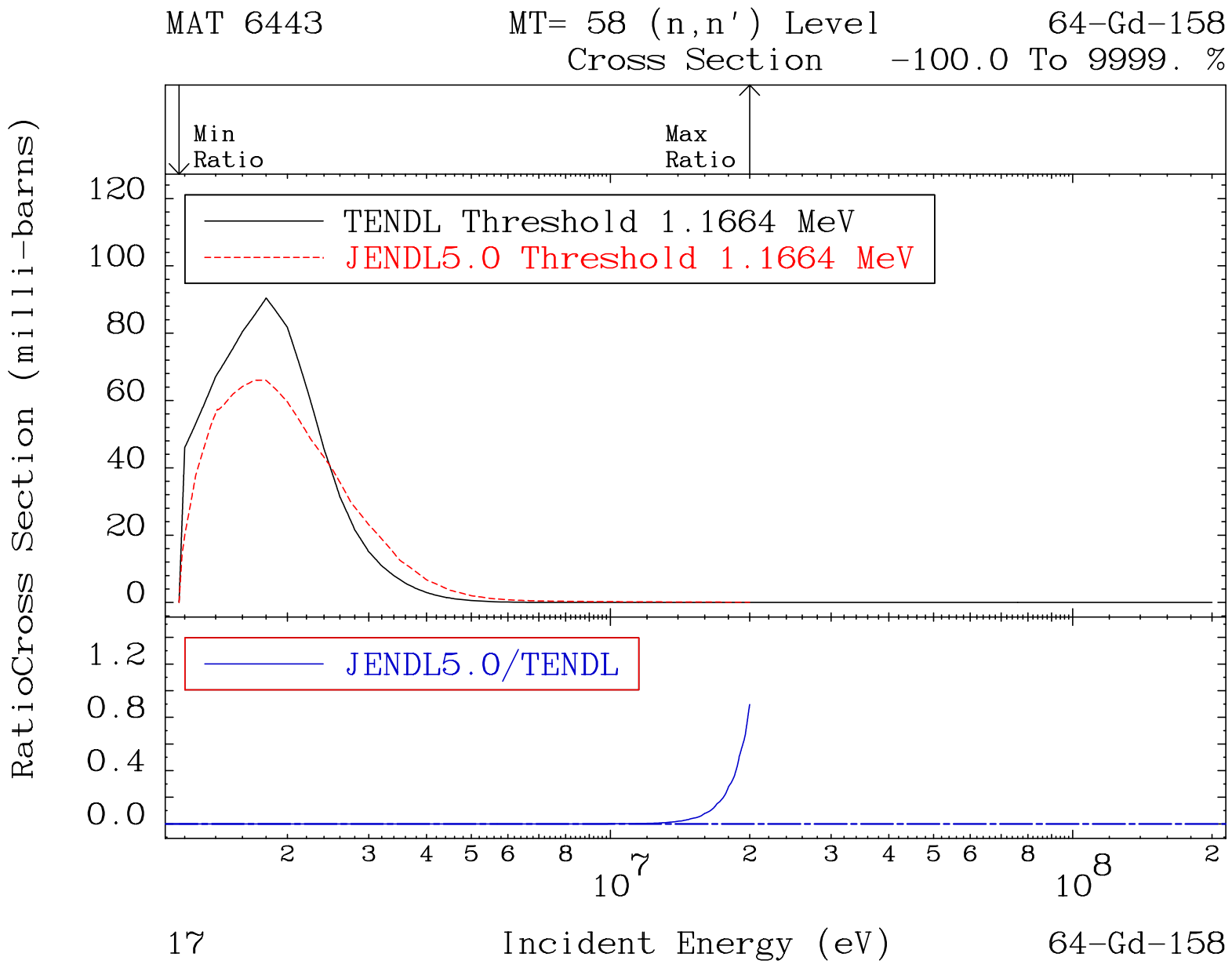

MAT 6443
MT= 53 (n,n') Level
64-Gd-158
Cross Section
-4.888 To 235.5 %
Min Ratio
Max Ratio
TENDL Threshold 542.46 keV
JENDL5.0 Threshold 542.46 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
12
64-Gd-158

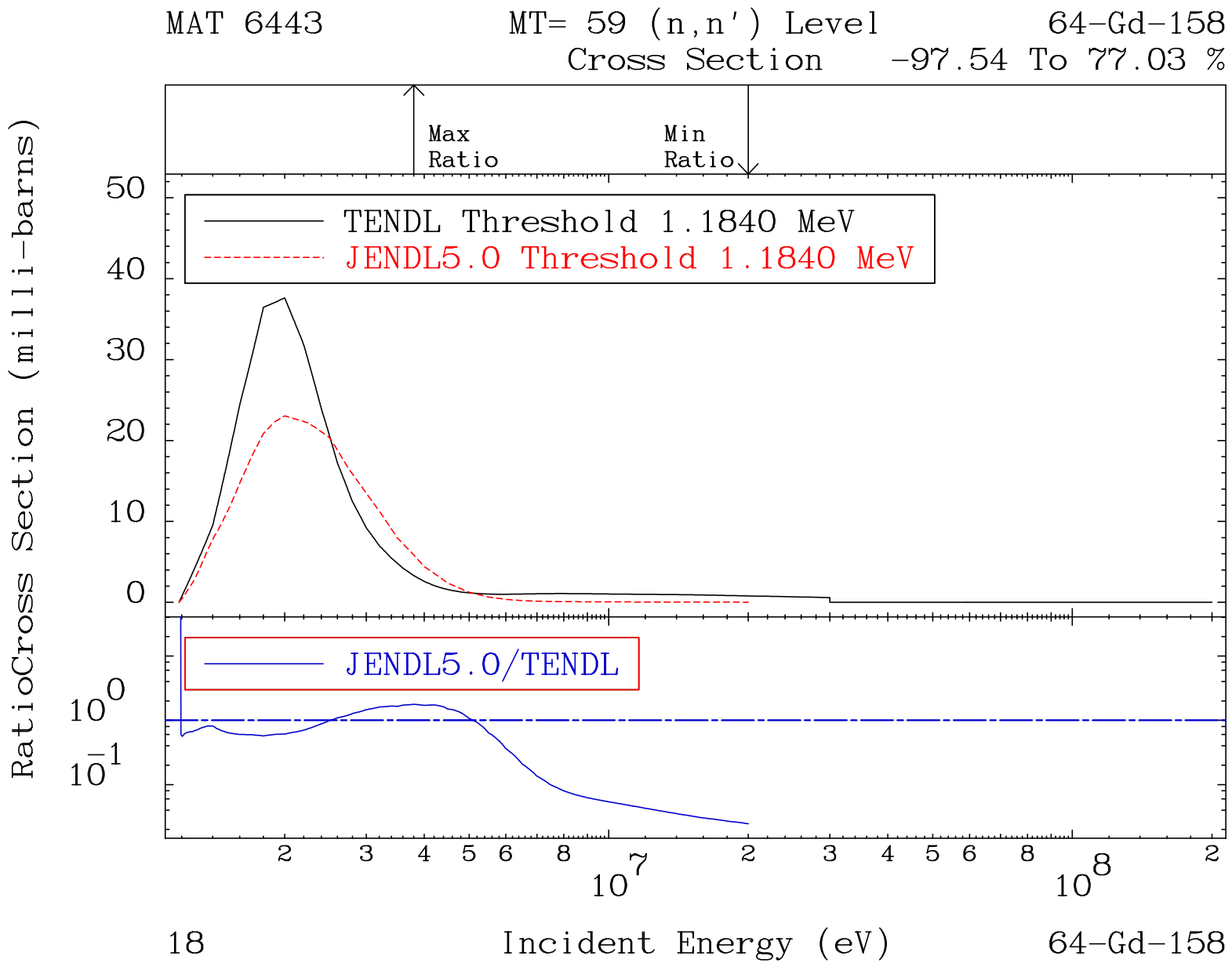

MAT 6443
MT= 54 (n,n') Level
64-Gd-158
Cross Section
-100.0 To 511.7 %
Min Ratio
Max Ratio
TENDL Threshold 909.89 keV
JENDL5.0 Threshold 909.89 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
13
64-Gd-158

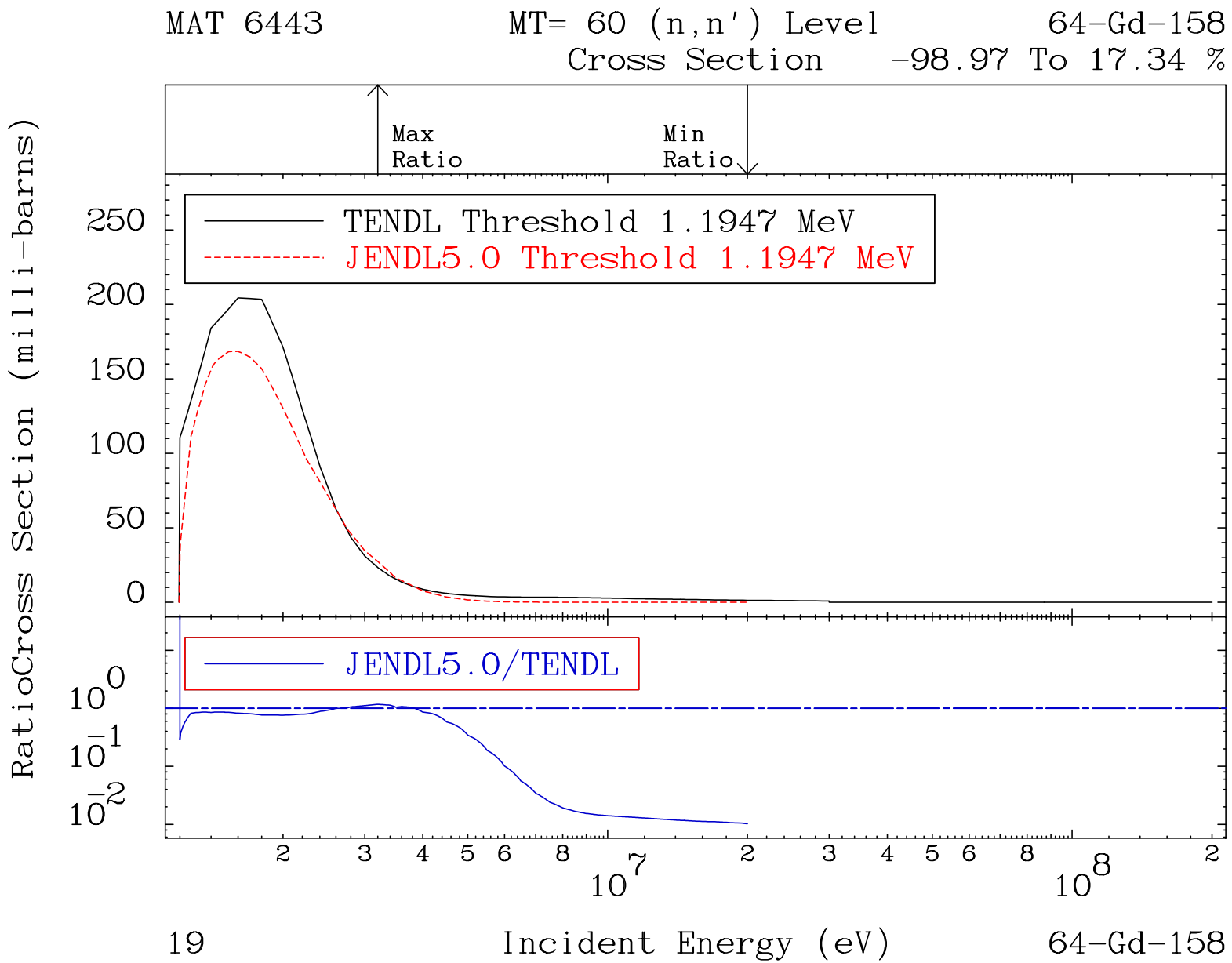

MAT 6443
MT= 55 (n,n') Level
64-Gd-158
Cross Section -94.79 To 92.12 %
Max Ratio
Min Ratio
TENDL Threshold 983.39 keV
JENDL5.0 Threshold 983.39 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
10^0
10^{-1}
10^6
10^7
10^8
2 3 4 5 6 8
14
Incident Energy (eV)
64-Gd-158

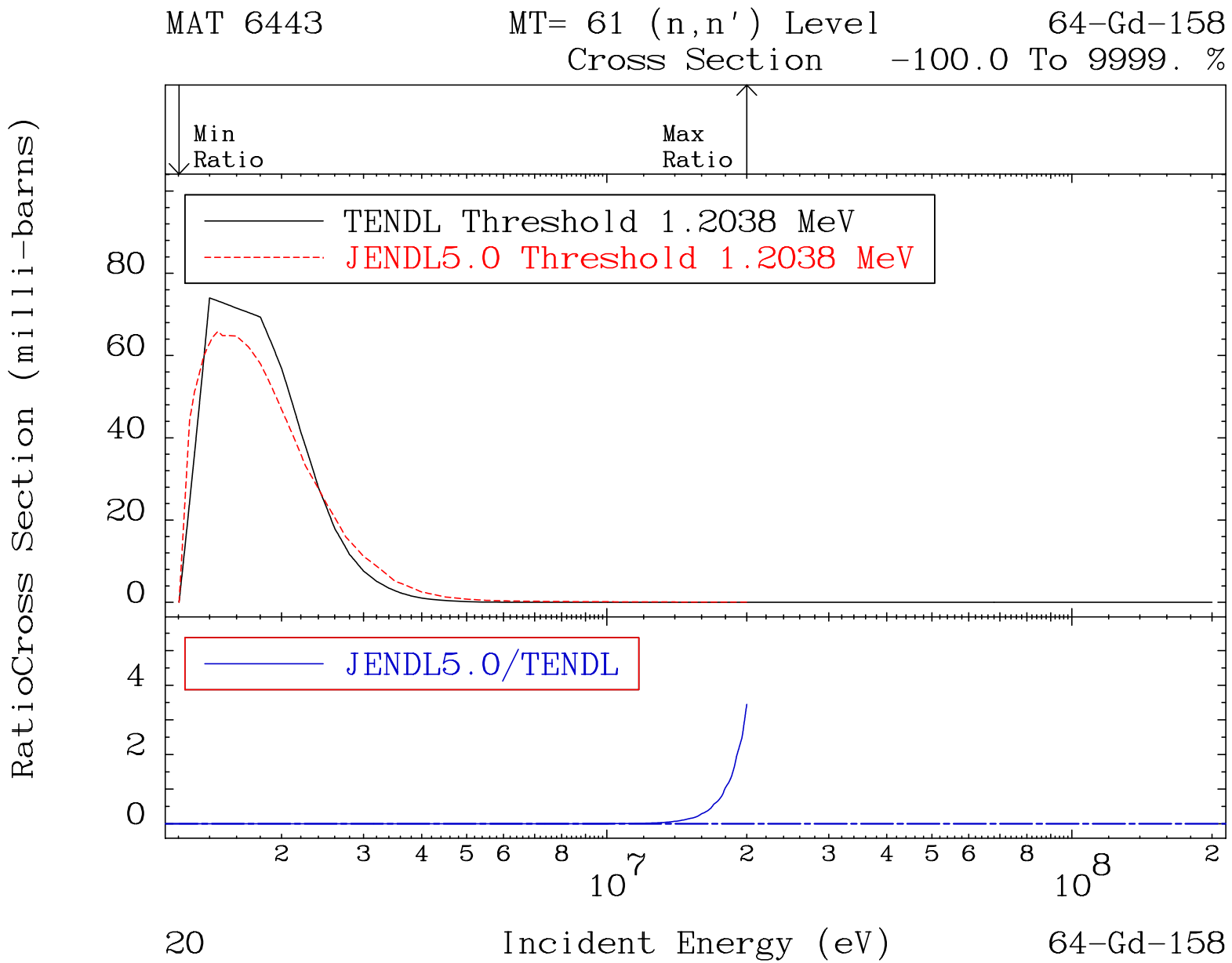

MAT 6443
MT= 56 (n,n') Level
64-Gd-158
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.0302 MeV
JENDL5.0 Threshold 1.0302 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
600
400
200
0
10^6
10^7
10^8
2 3 4 5 6 8
Incident Energy (eV)
15
64-Gd-158

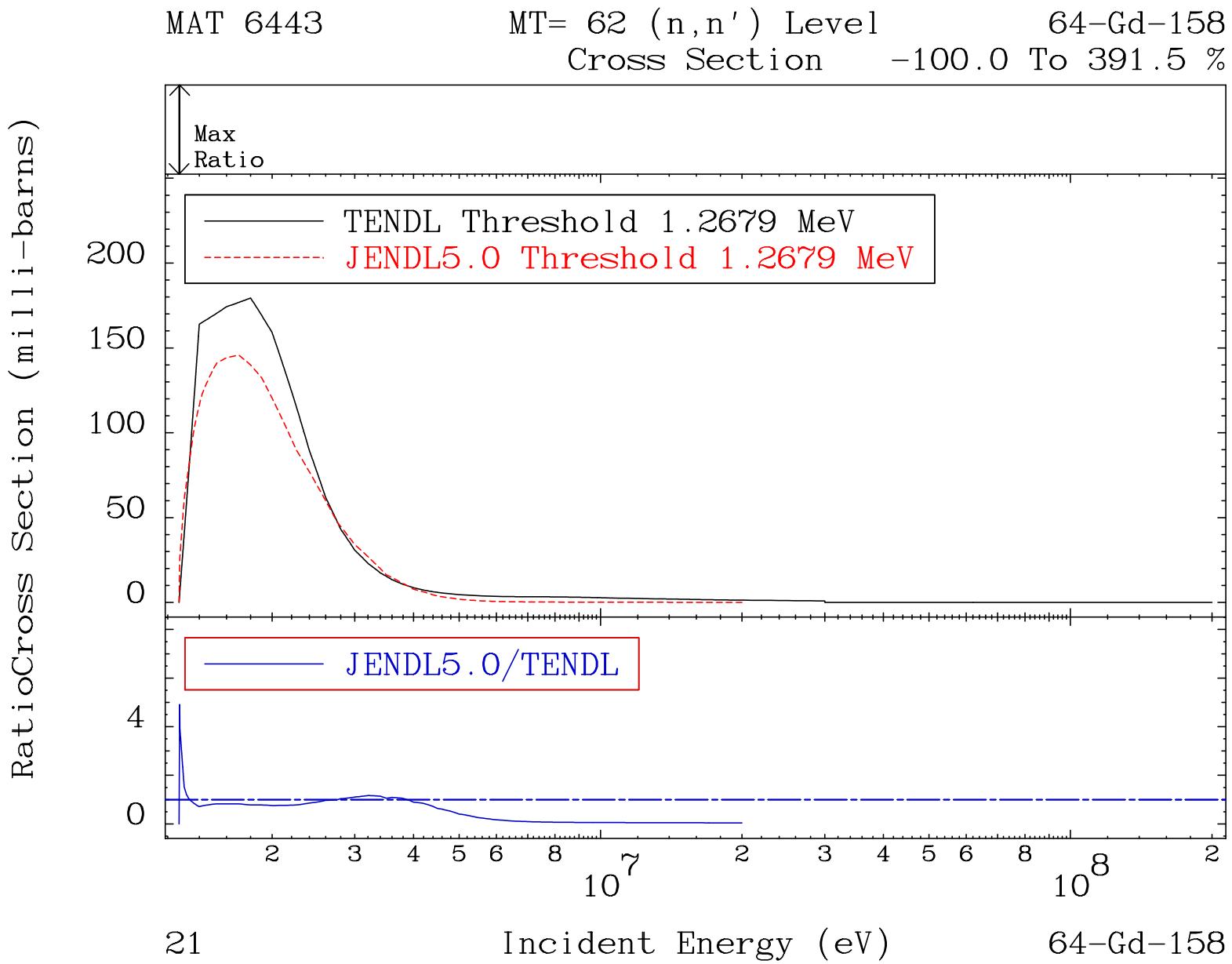

MAT 6443
MT= 57 (n,n') Level
64-Gd-158
Cross Section
-99.67 To 29.71 %
Max Ratio
Min Ratio
TENDL Threshold 1.0483 MeV
JENDL5.0 Threshold 1.0483 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^0
10^-2
10^6
10^7
10^8
Incident Energy (eV)
16
64-Gd-158

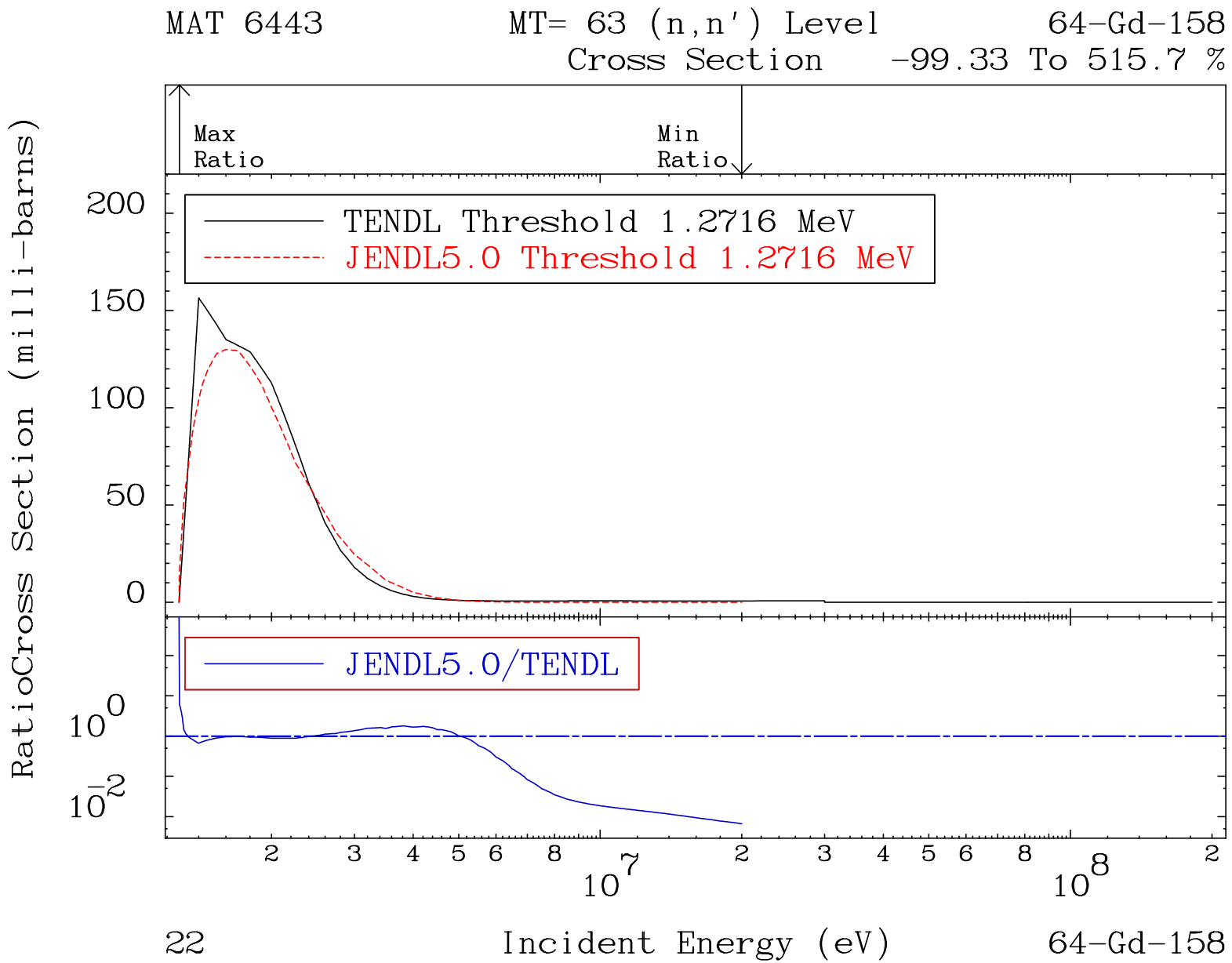

MAT 6443
MT= 58 (n,n') Level
64-Gd-158
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1664 MeV
JENDL5.0 Threshold 1.1664 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.8
0.4
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
64-Gd-158

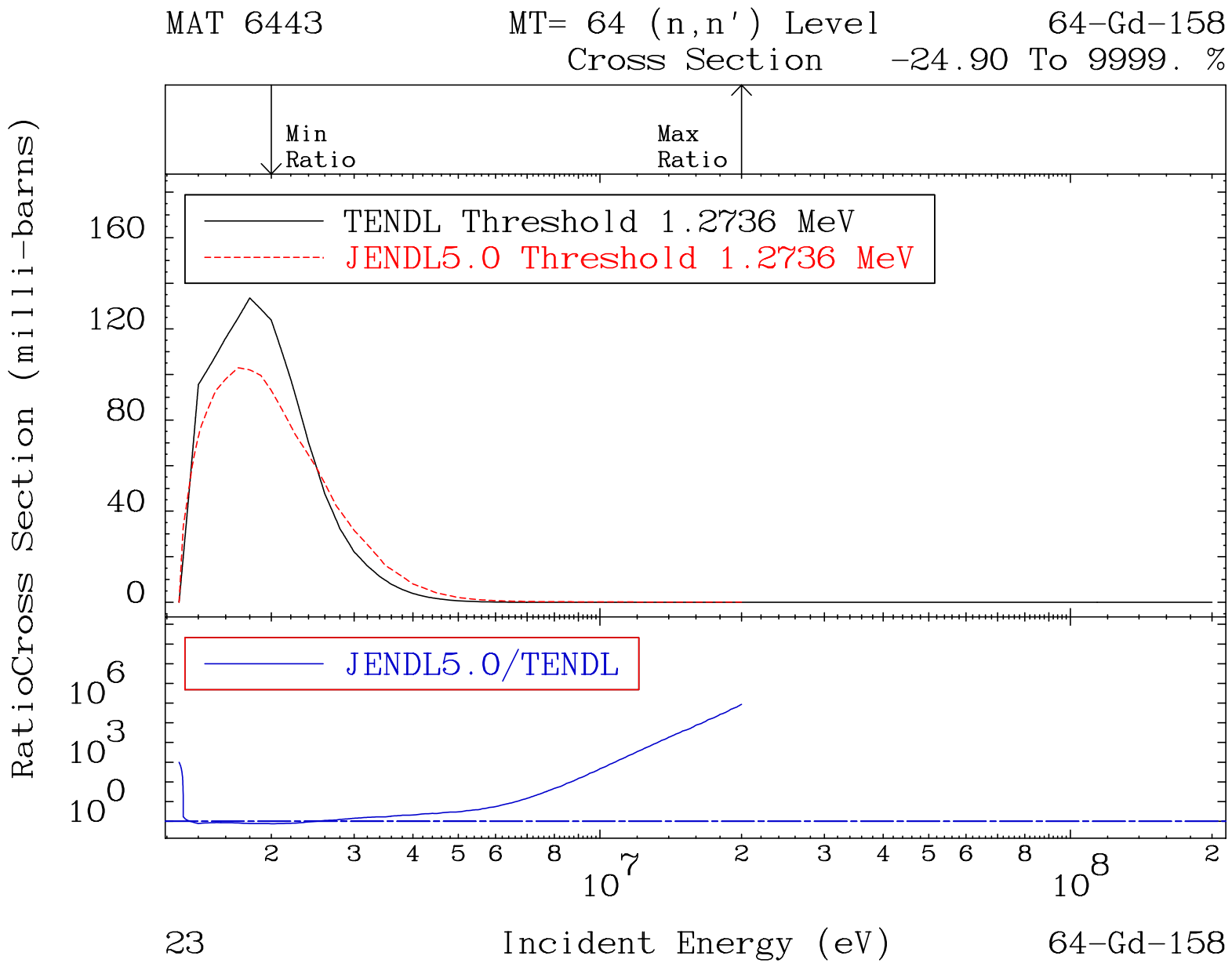

MAT 6443
MT= 59 (n,n') Level
64-Gd-158
Cross Section
-97.54 To 77.03 %
Max Ratio
Min Ratio
TENDL Threshold 1.1840 MeV
JENDL5.0 Threshold 1.1840 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
10^0
10^-1
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
18
Incident Energy (eV)
64-Gd-158

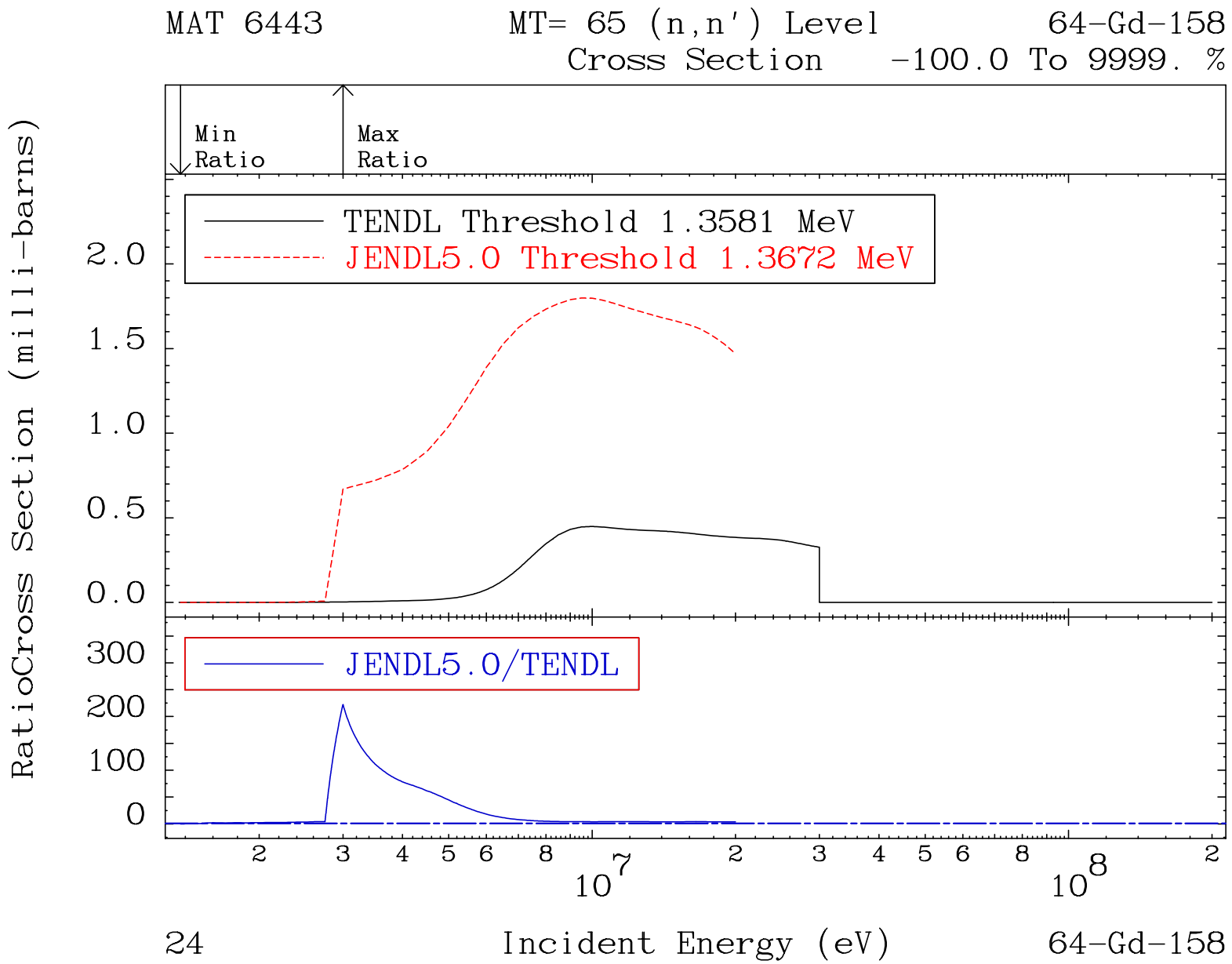

MAT 6443
MT= 60 (n,n') Level
64-Gd-158
Cross Section
-98.97 To 17.34 %
Max Ratio
Min Ratio
TENDL Threshold 1.1947 MeV
JENDL5.0 Threshold 1.1947 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10^0
10^-1
10^-2
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
64-Gd-158

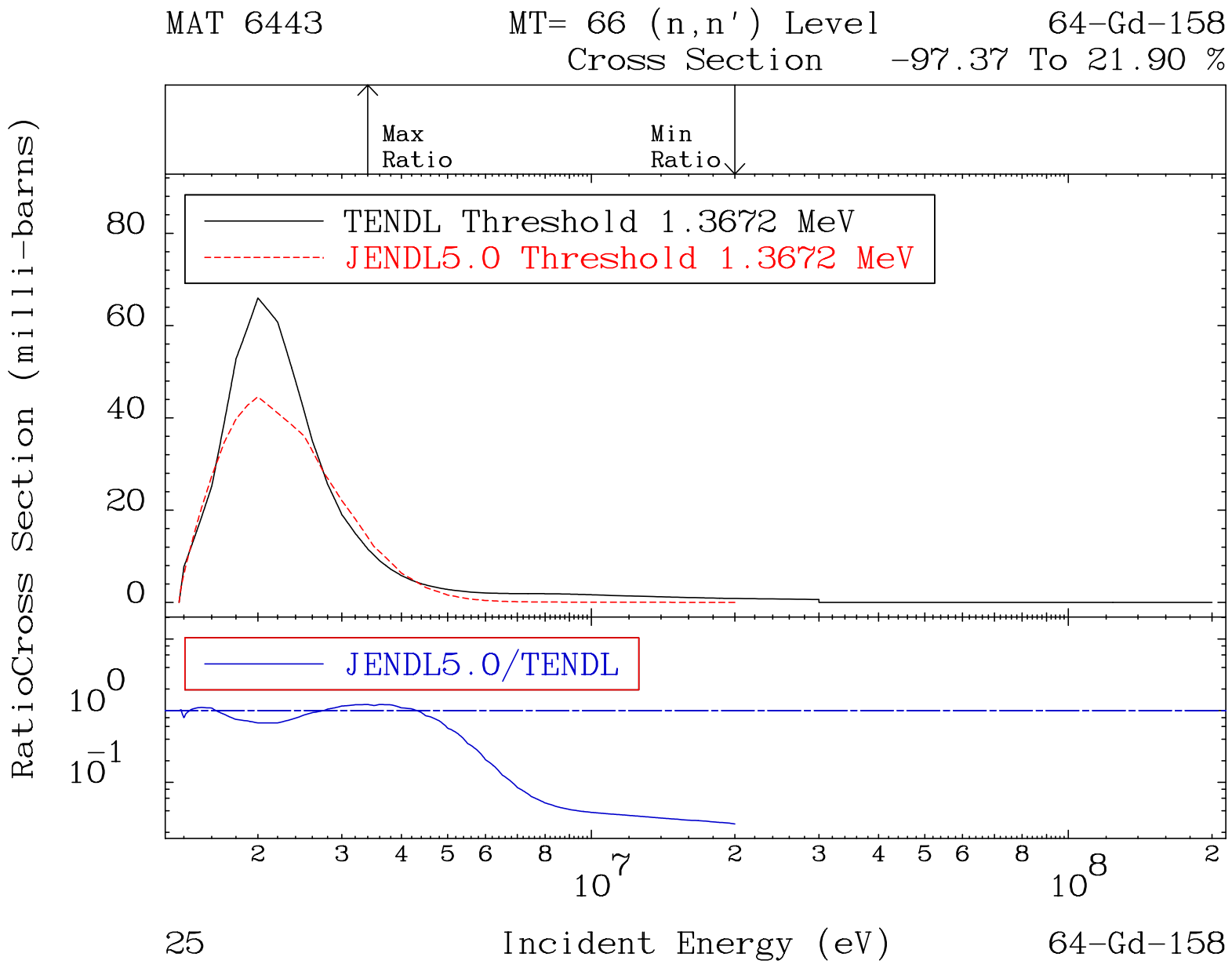

MAT 6443
MT= 61 (n,n') Level
64-Gd-158
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2038 MeV
JENDL5.0 Threshold 1.2038 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
64-Gd-158

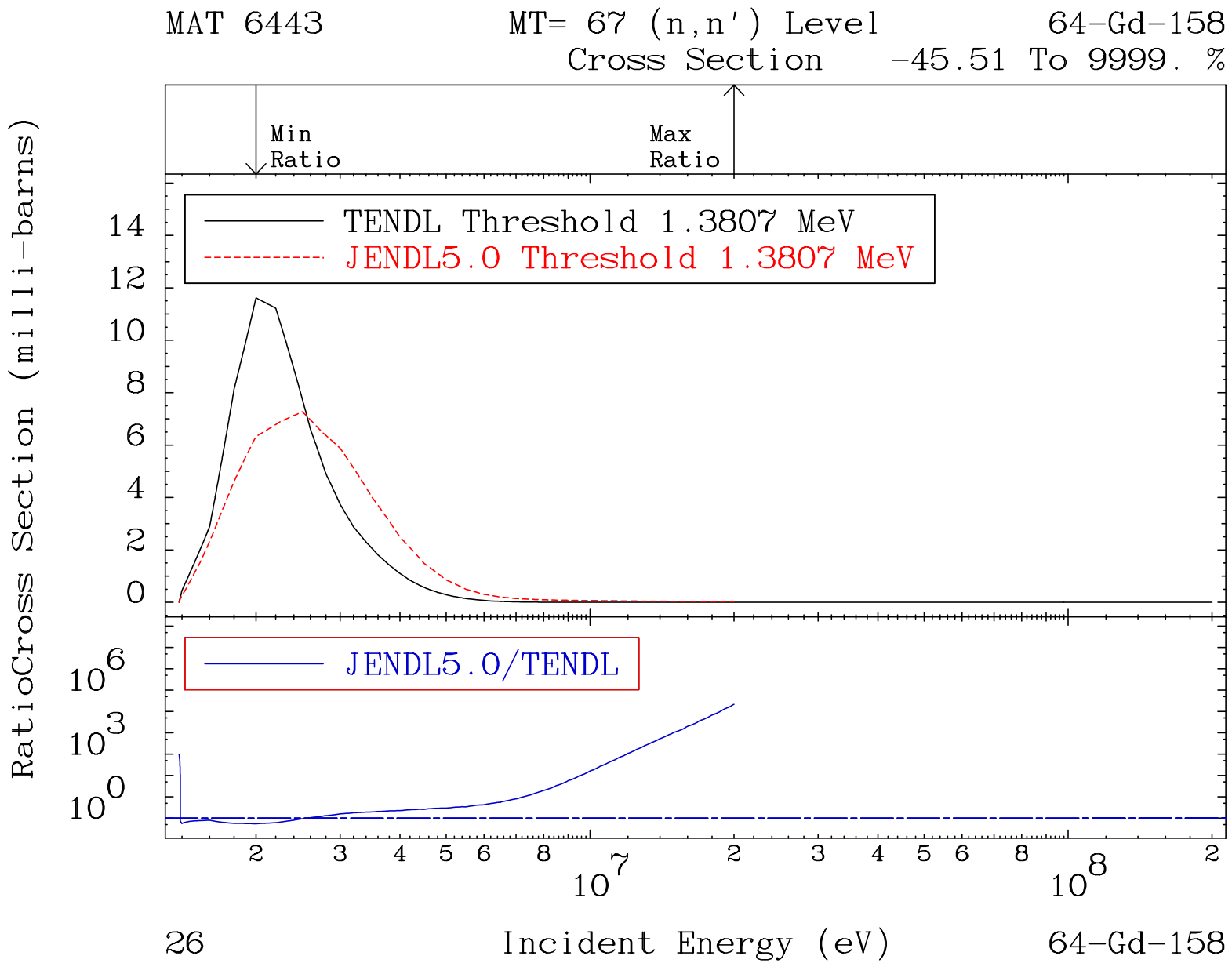

MAT 6443
MT= 62 (n,n') Level
64-Gd-158
Cross Section
-100.0 To 391.5 %
Max
Ratio
TENDL Threshold 1.2679 MeV
JENDL5.0 Threshold 1.2679 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
21
Incident Energy (eV)
64-Gd-158

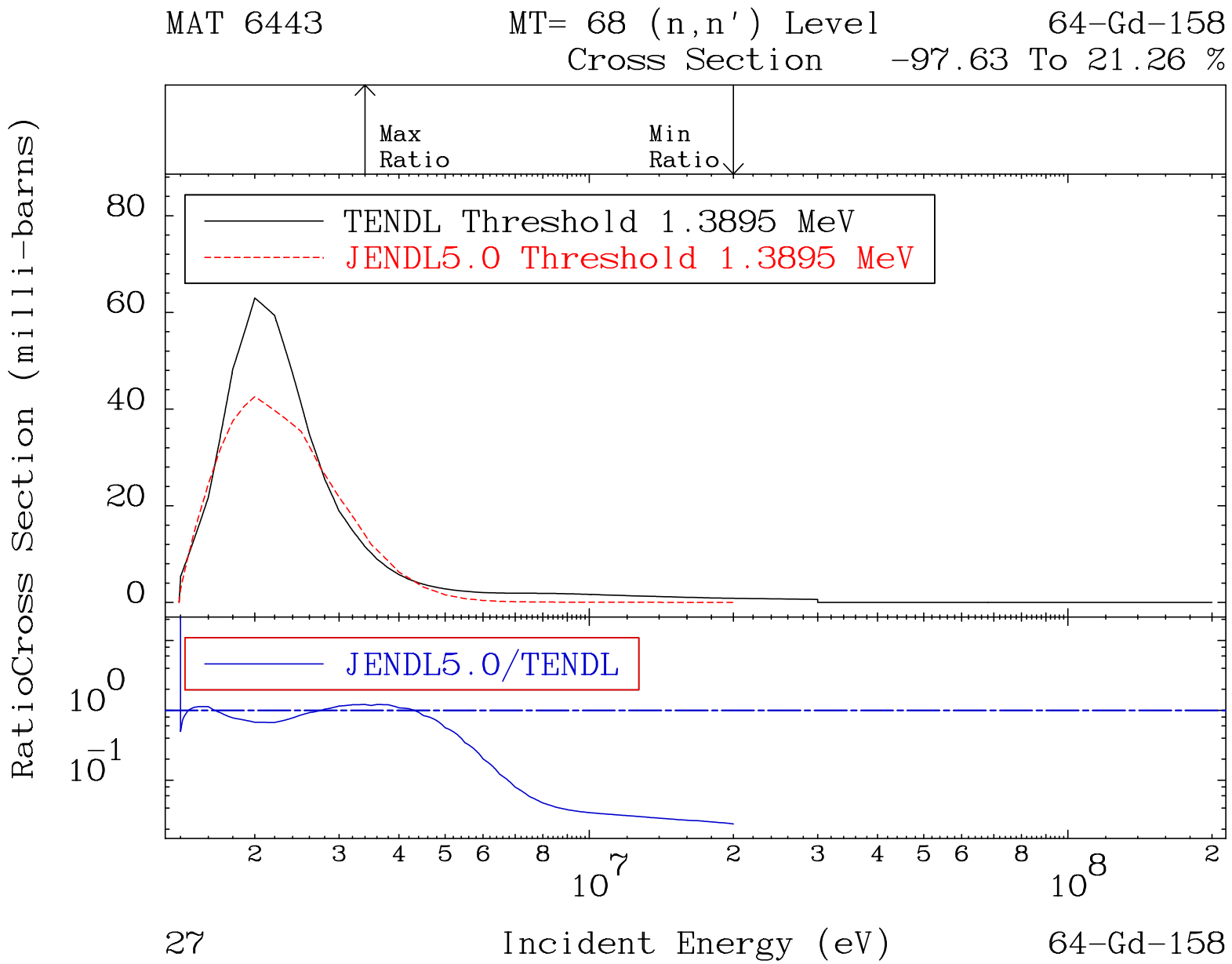

MAT 6443
MT= 63 (n,n') Level
64-Gd-158
Cross Section
-99.33 To 515.7 %
Max Ratio
Min Ratio
TENDL Threshold 1.2716 MeV
JENDL5.0 Threshold 1.2716 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^0
10^-2
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
22
Incident Energy (eV)
64-Gd-158

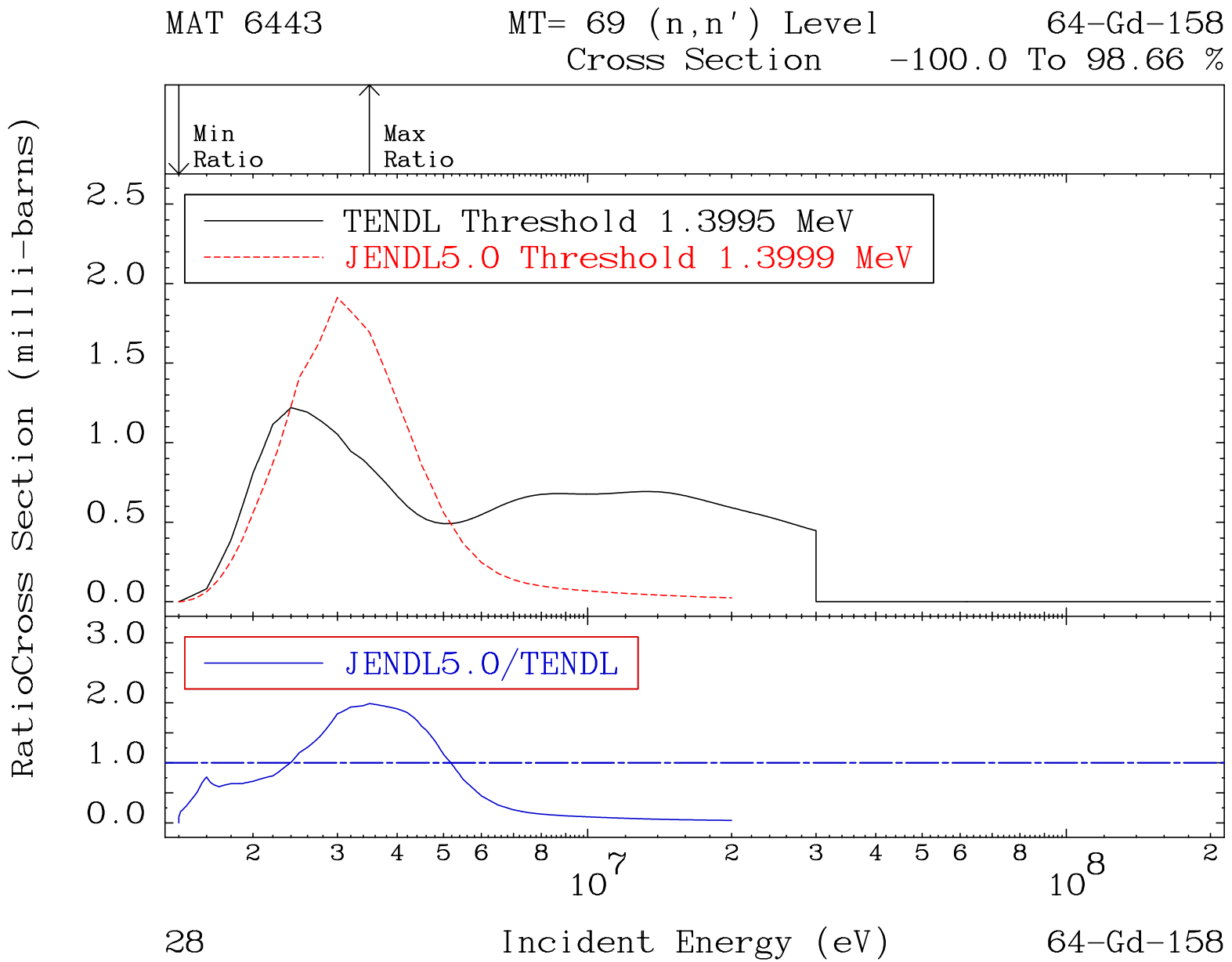

MAT 6443
MT= 64 (n,n') Level
64-Gd-158
Cross Section -24.90 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2736 MeV
JENDL5.0 Threshold 1.2736 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^6
10^3
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
23
Incident Energy (eV)
64-Gd-158

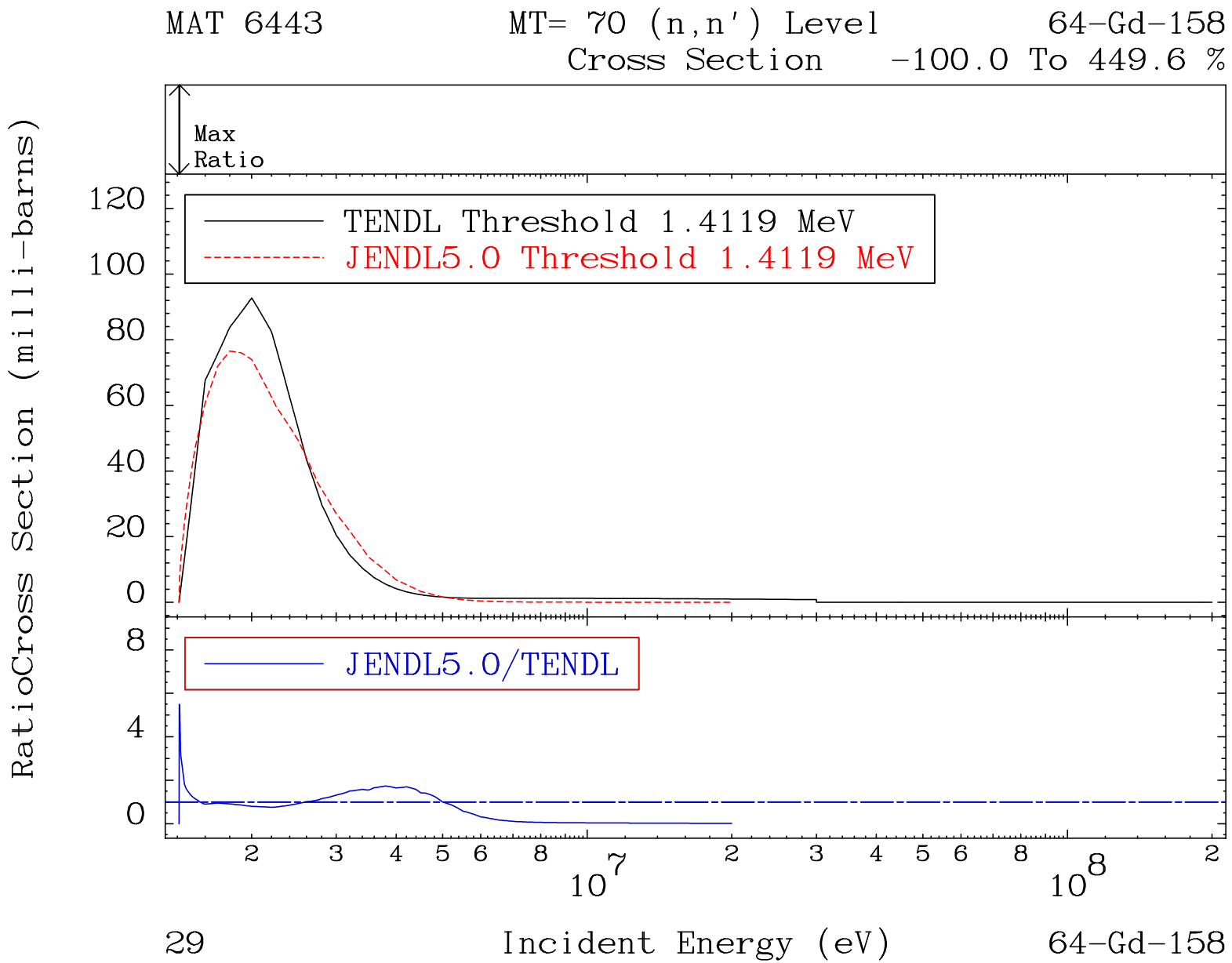

MAT 6443
MT= 65 (n,n') Level
64-Gd-158
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3581 MeV
JENDL5.0 Threshold 1.3672 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
300
200
100
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
24
Incident Energy (eV)
64-Gd-158

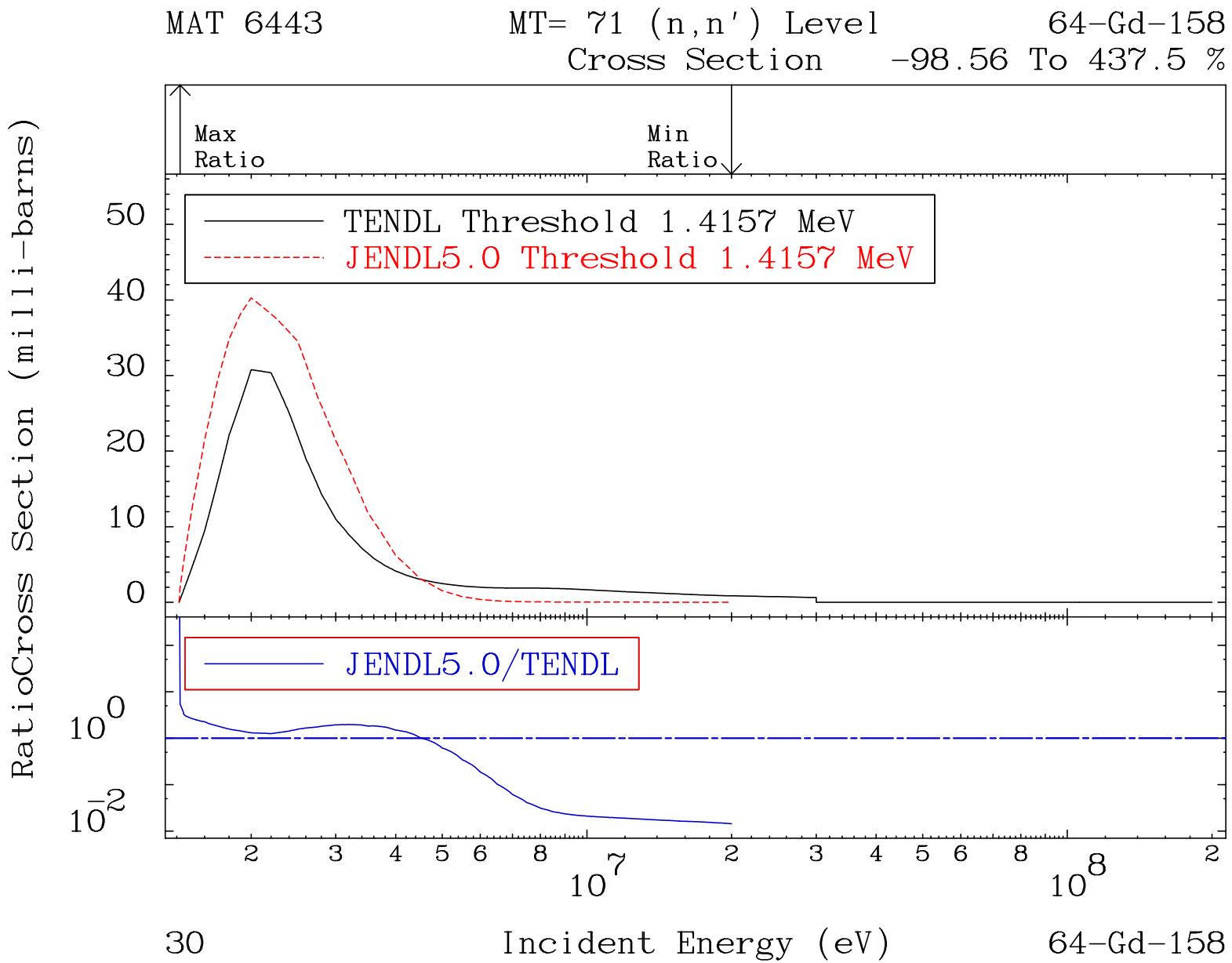

MAT 6443
MT= 66 (n,n') Level
64-Gd-158
Cross Section
-97.37 To 21.90 %
Max Ratio
Min Ratio
TENDL Threshold 1.3672 MeV
JENDL5.0 Threshold 1.3672 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^0
10^-1
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
25
Incident Energy (eV)
64-Gd-158

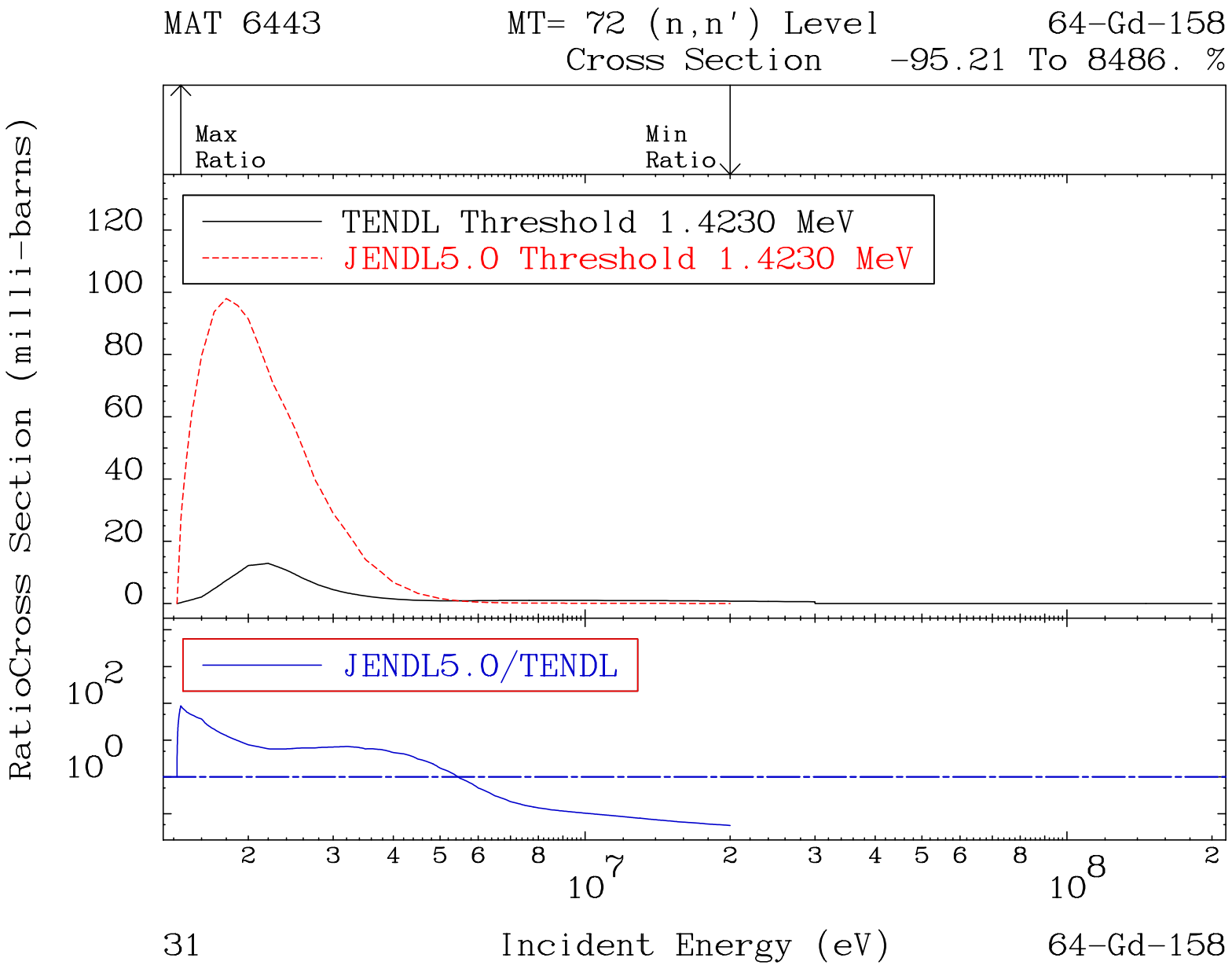

MAT 6443
MT= 67 (n,n') Level
64-Gd-158
Cross Section -45.51 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3807 MeV
JENDL5.0 Threshold 1.3807 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
26
64-Gd-158

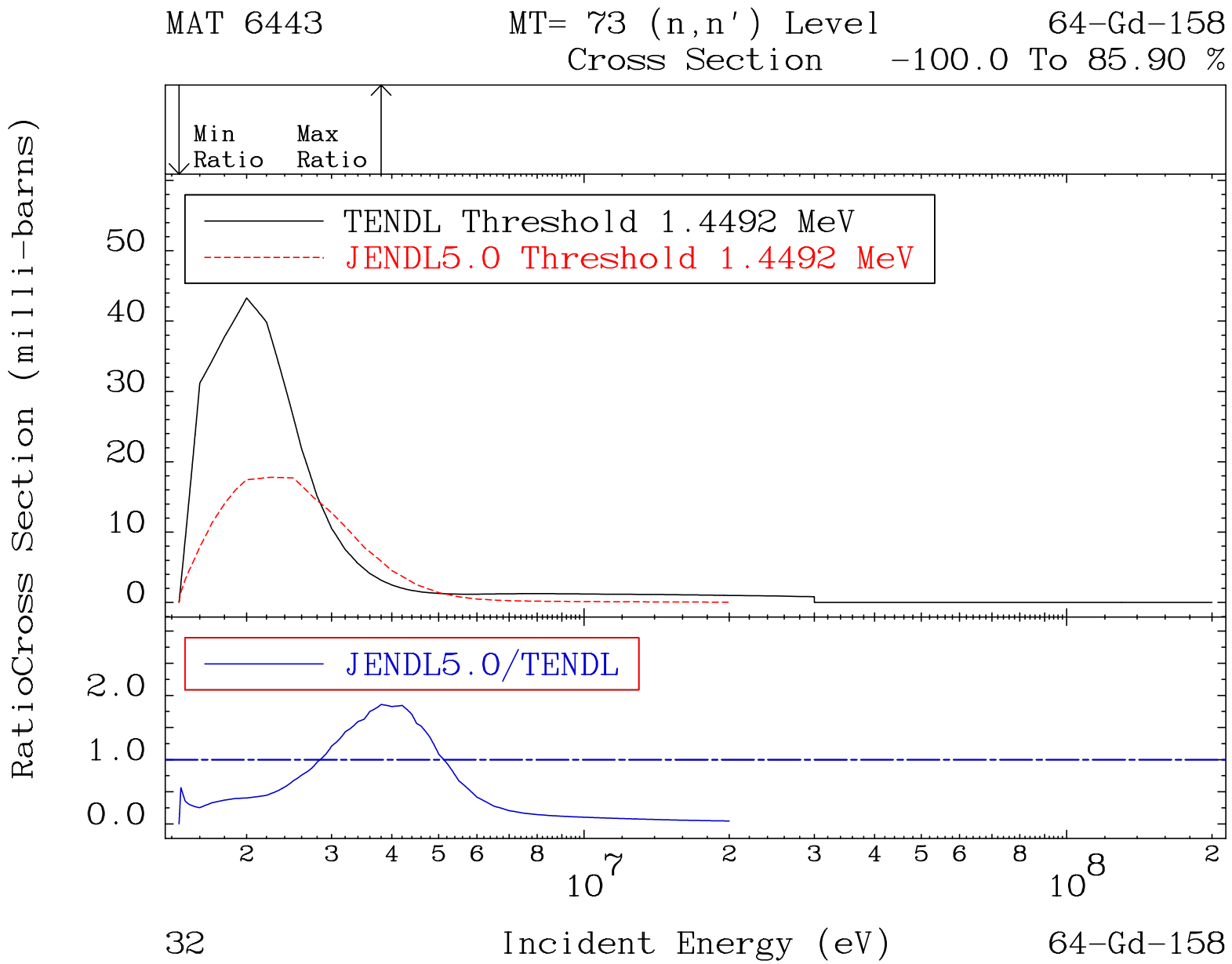

MAT 6443
MT= 68 (n,n') Level
64-Gd-158
Cross Section
-97.63 To 21.26 %
Max Ratio
Min Ratio
TENDL Threshold 1.3895 MeV
JENDL5.0 Threshold 1.3895 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^0
10^-1
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
27
Incident Energy (eV)
64-Gd-158

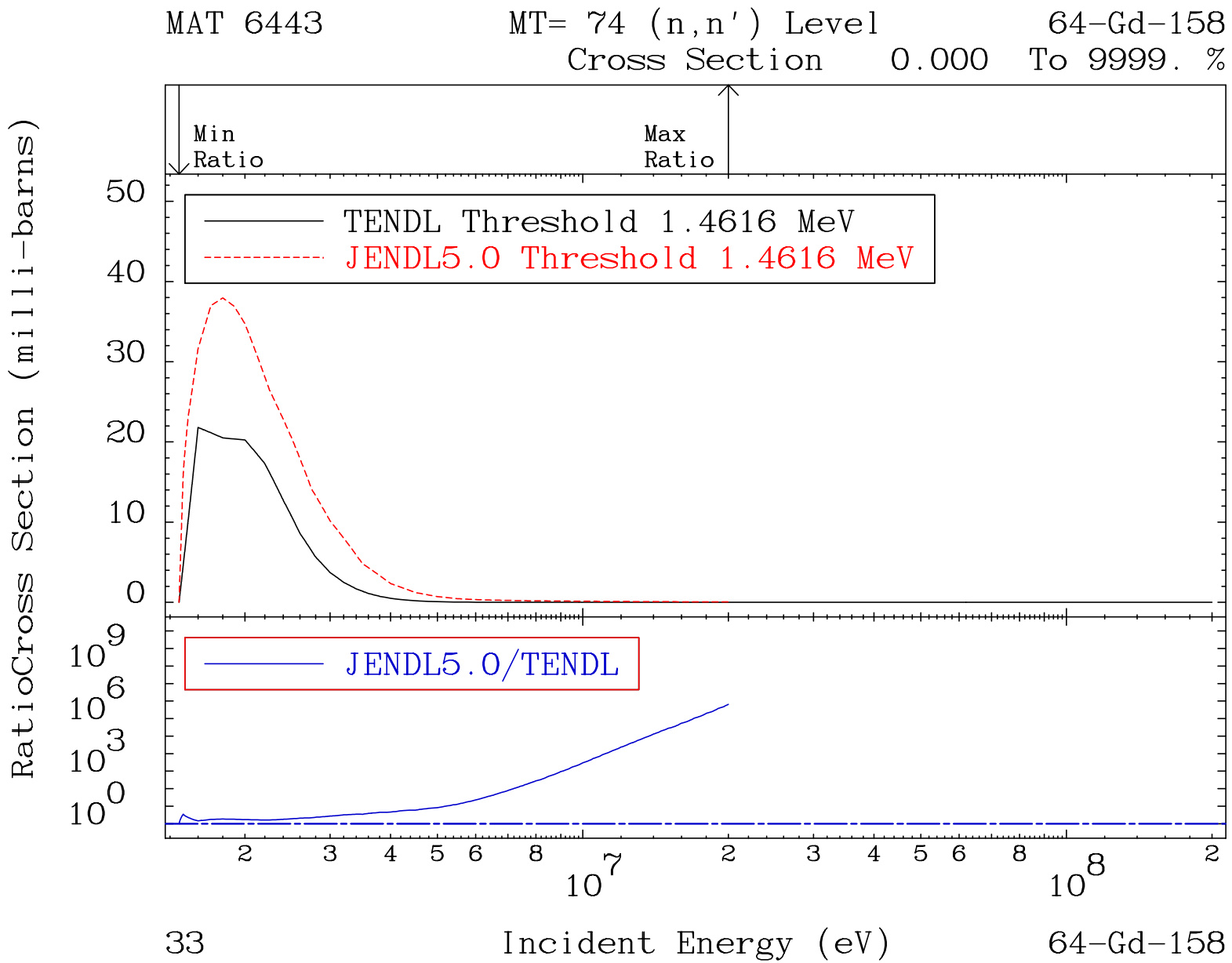

MAT 6443
MT= 69 (n,n') Level
64-Gd-158
Cross Section
-100.0 To 98.66 %
Min Ratio
Max Ratio
TENDL Threshold 1.3995 MeV
JENDL5.0 Threshold 1.3999 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
3.0
2.0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
28
Incident Energy (eV)
64-Gd-158

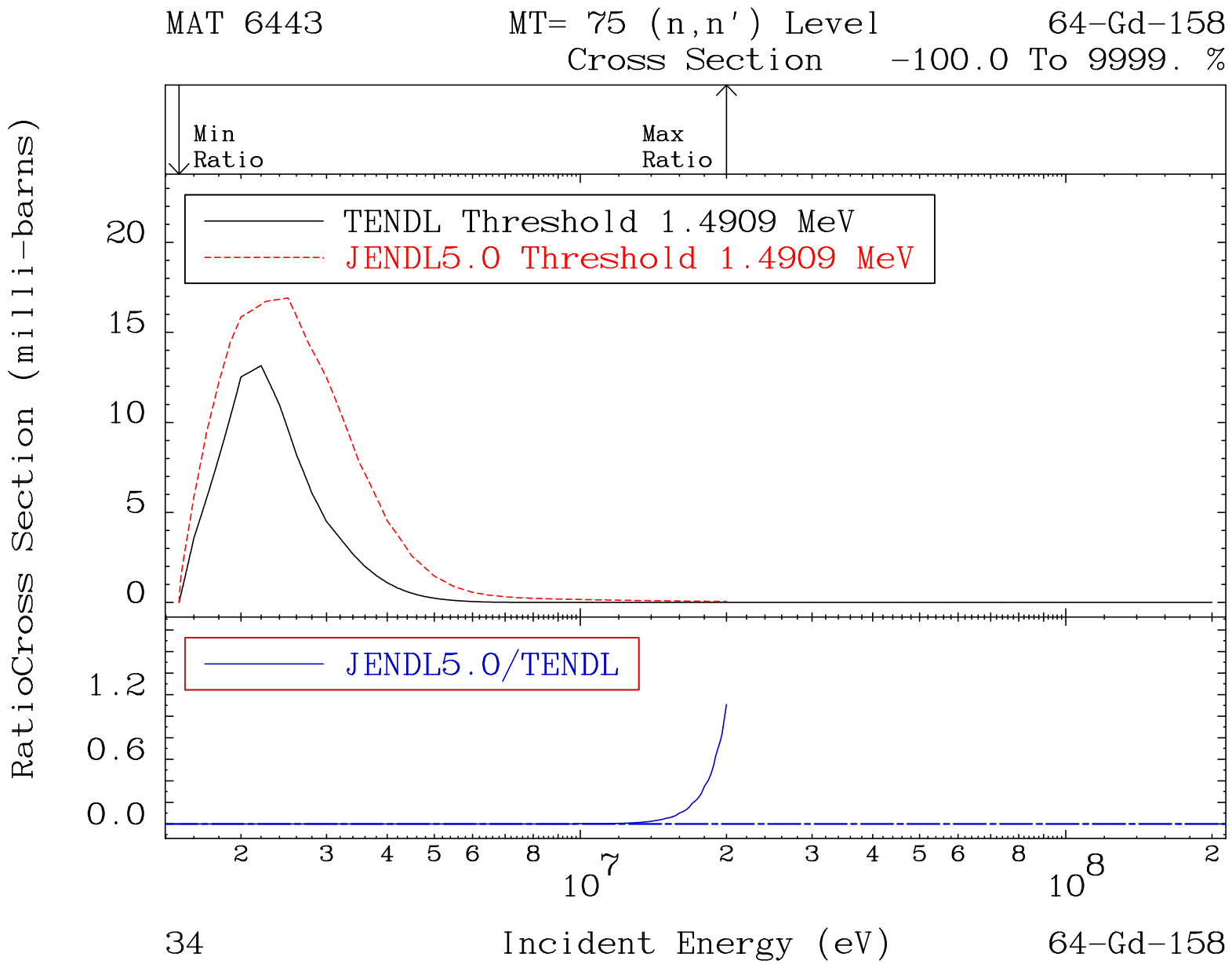

MAT 6443
MT= 70 (n,n') Level
64-Gd-158
Cross Section
-100.0 To 449.6 %
Max
Ratio
TENDL Threshold 1.4119 MeV
JENDL5.0 Threshold 1.4119 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
8
4
0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
29
Incident Energy (eV)
64-Gd-158

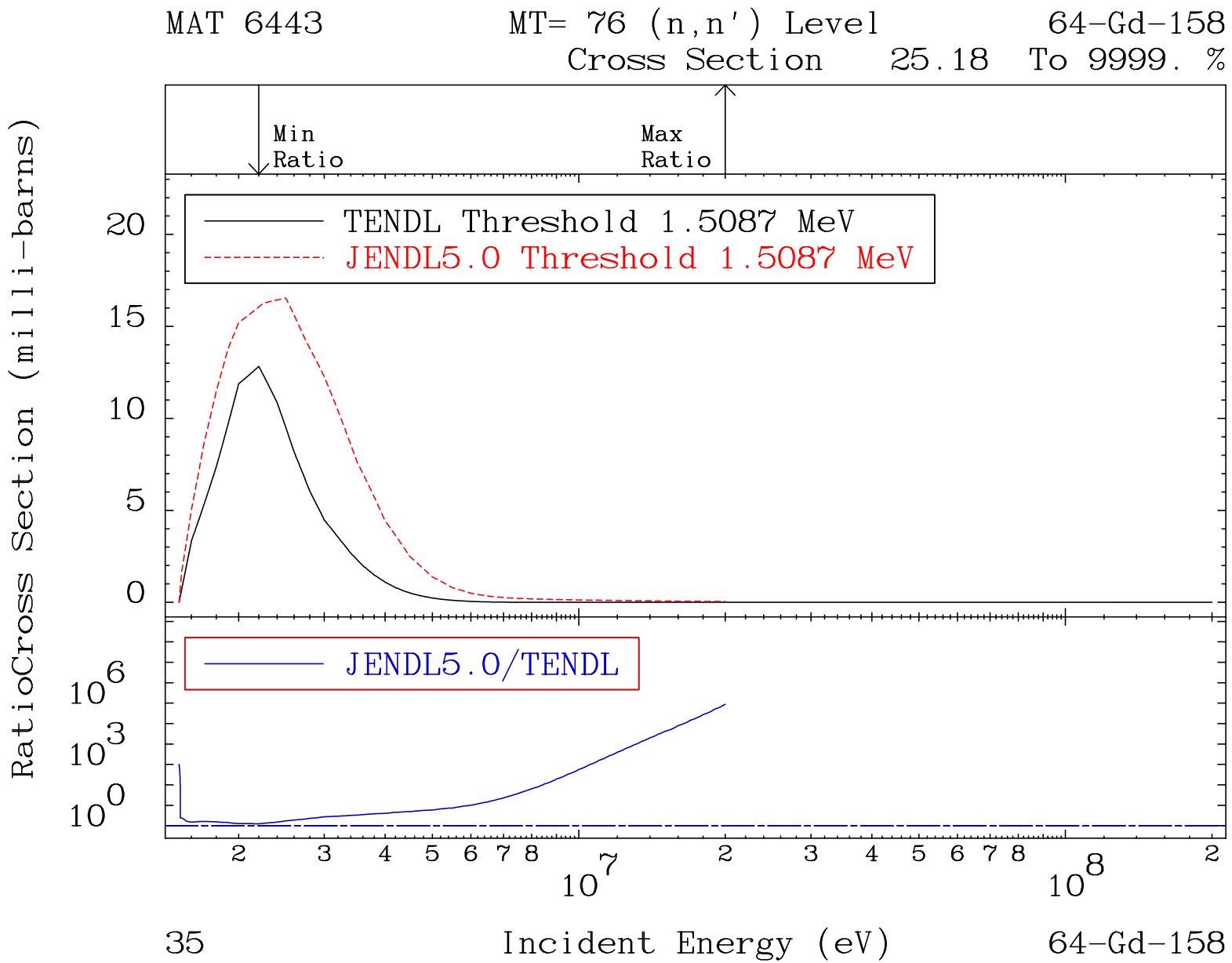

MAT 6443
MT= 71 (n,n') Level
64-Gd-158
Cross Section -98.56 To 437.5 %
Max Ratio
Min Ratio
TENDL Threshold 1.4157 MeV
JENDL5.0 Threshold 1.4157 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
10^{0}
10^{-2}
2 3 4 5 6 8 10^{7} 2 3 4 5 6 8 10^{8} 2
30
Incident Energy (eV)
64-Gd-158

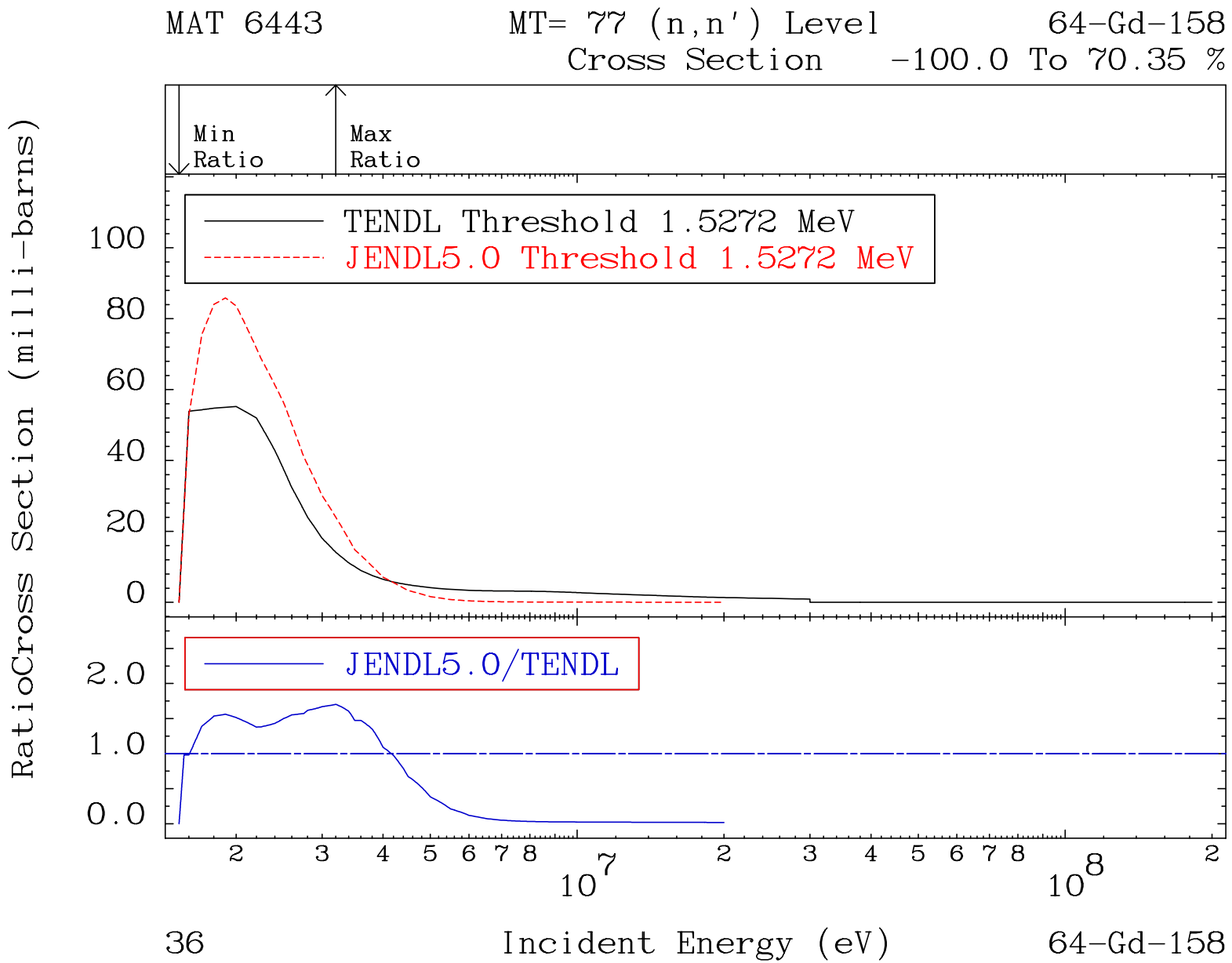

MAT 6443
MT= 72 (n,n') Level
64-Gd-158
Cross Section -95.21 To 8486. %
Max Ratio
Min Ratio
TENDL Threshold 1.4230 MeV
JENDL5.0 Threshold 1.4230 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^2
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
31
Incident Energy (eV)
64-Gd-158

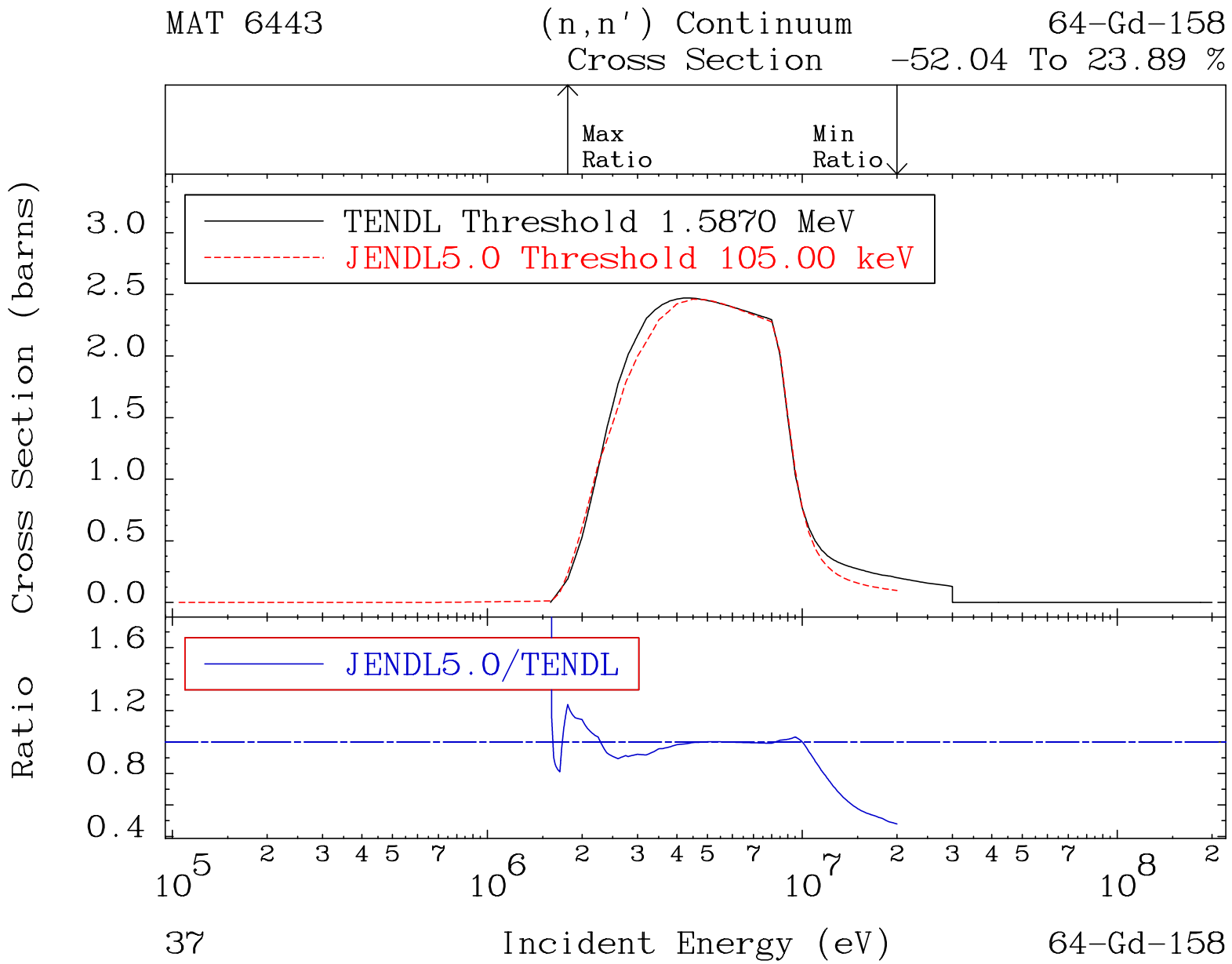

MAT 6443
MT= 73 (n,n') Level
64-Gd-158
Cross Section
-100.0 To 85.90 %
Min Ratio
Max Ratio
TENDL Threshold 1.4492 MeV
JENDL5.0 Threshold 1.4492 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
32
Incident Energy (eV)
64-Gd-158

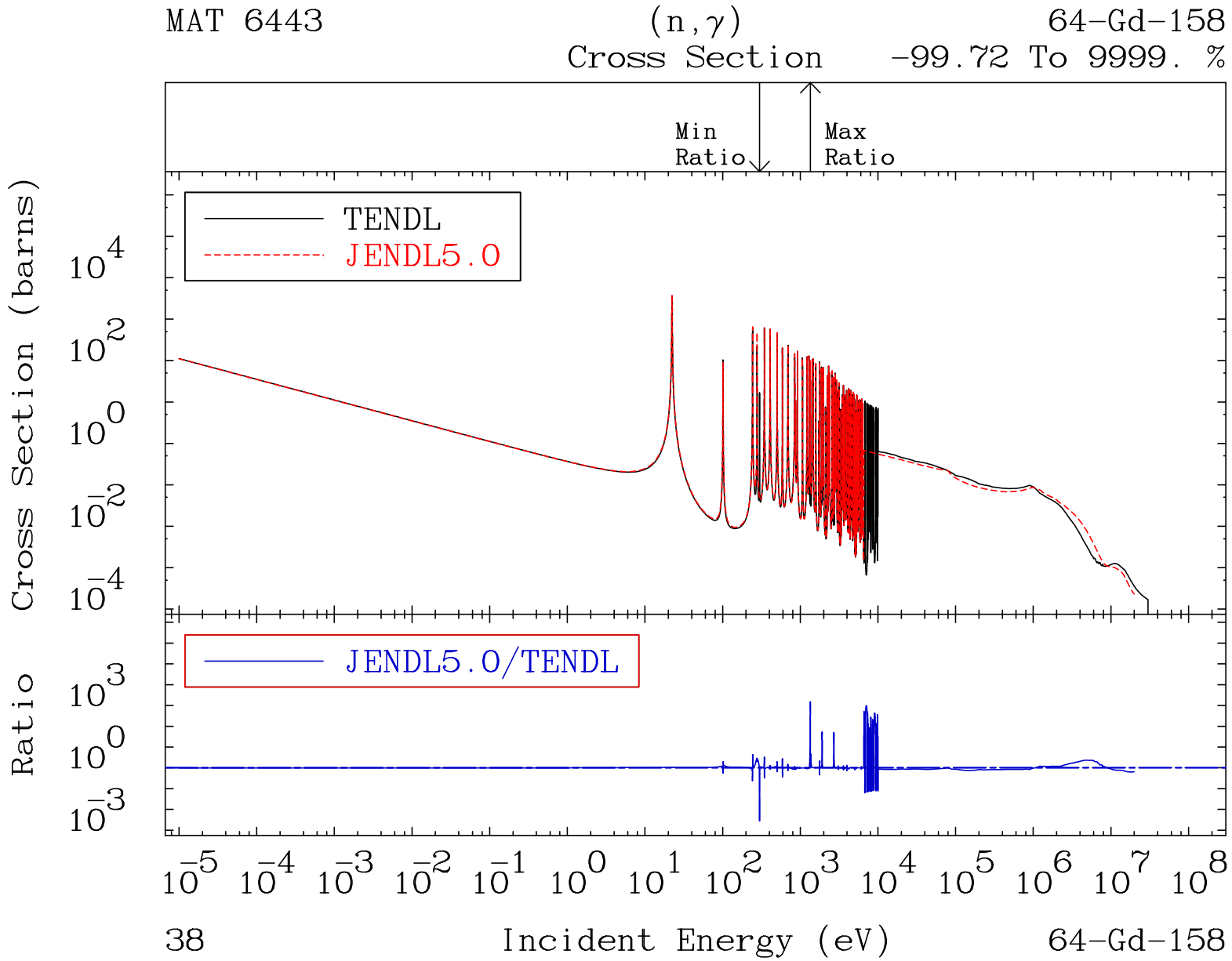

MAT 6443
MT= 74 (n,n') Level
64-Gd-158
Cross Section 0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.4616 MeV
JENDL5.0 Threshold 1.4616 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
33
64-Gd-158

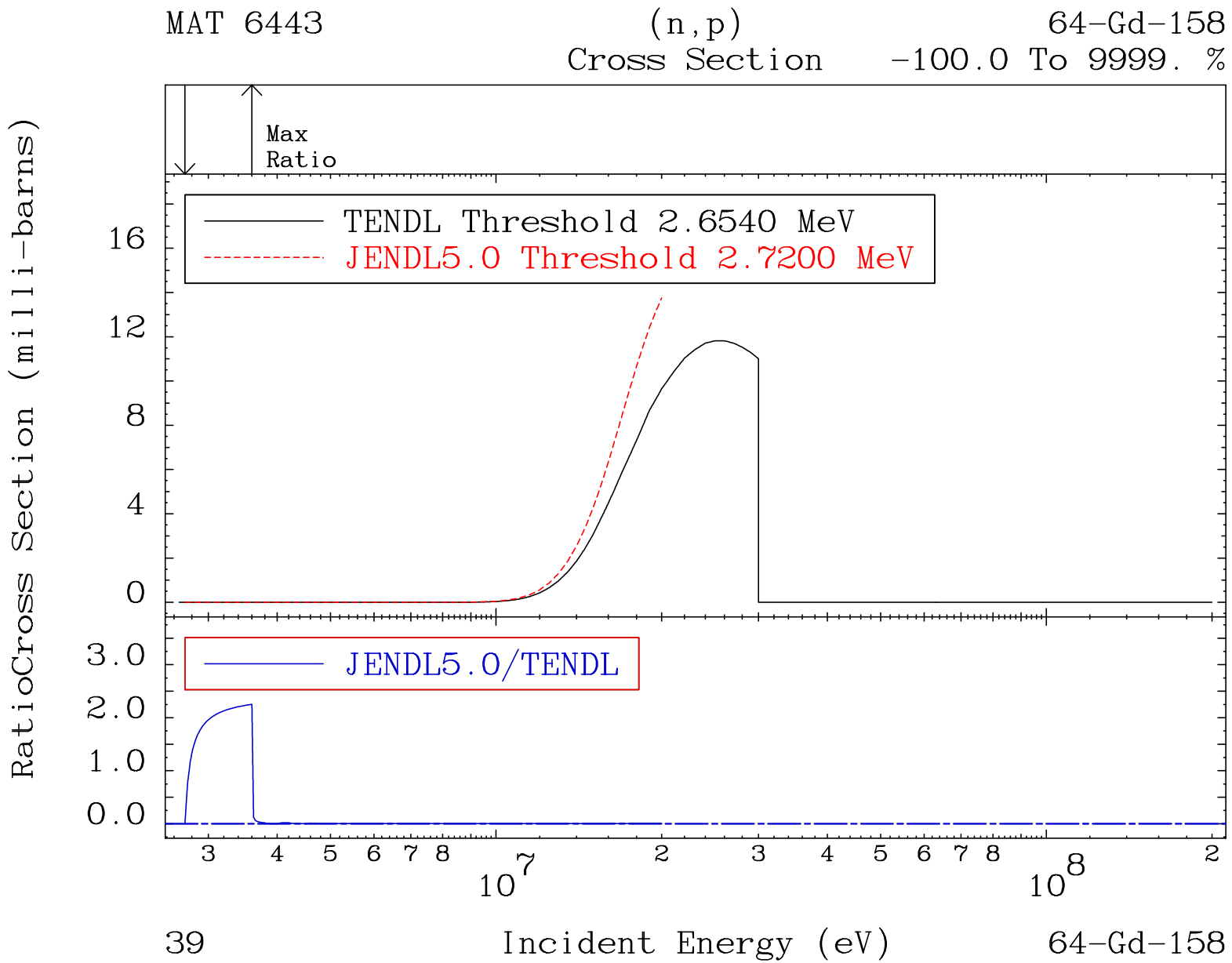

MAT 6443
MT= 75 (n,n') Level
64-Gd-158
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.4909 MeV
JENDL5.0 Threshold 1.4909 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
34
Incident Energy (eV)
64-Gd-158

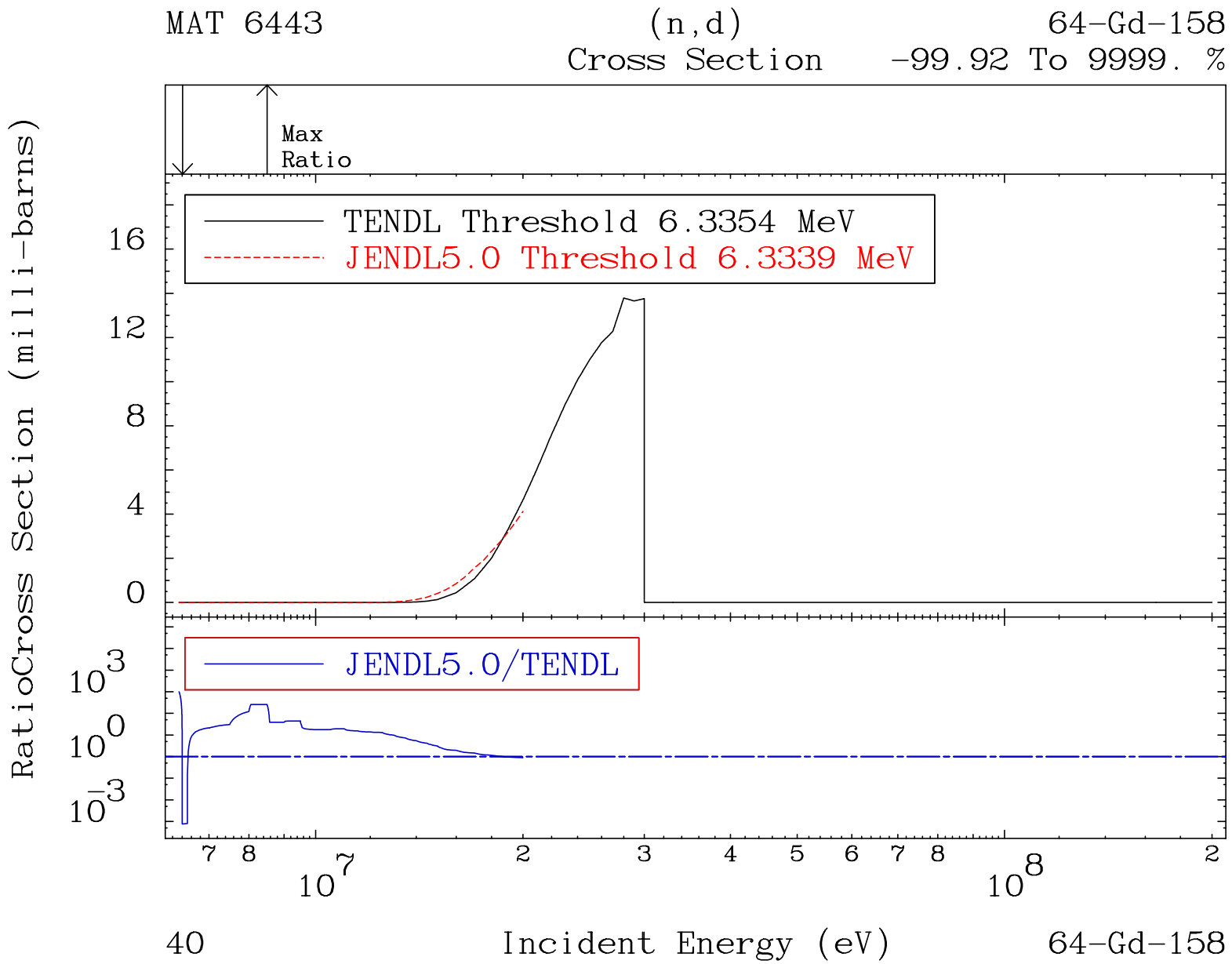

MAT 6443
MT= 76 (n,n') Level
64-Gd-158
Cross Section 25.18 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5087 MeV
JENDL5.0 Threshold 1.5087 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
35
64-Gd-158

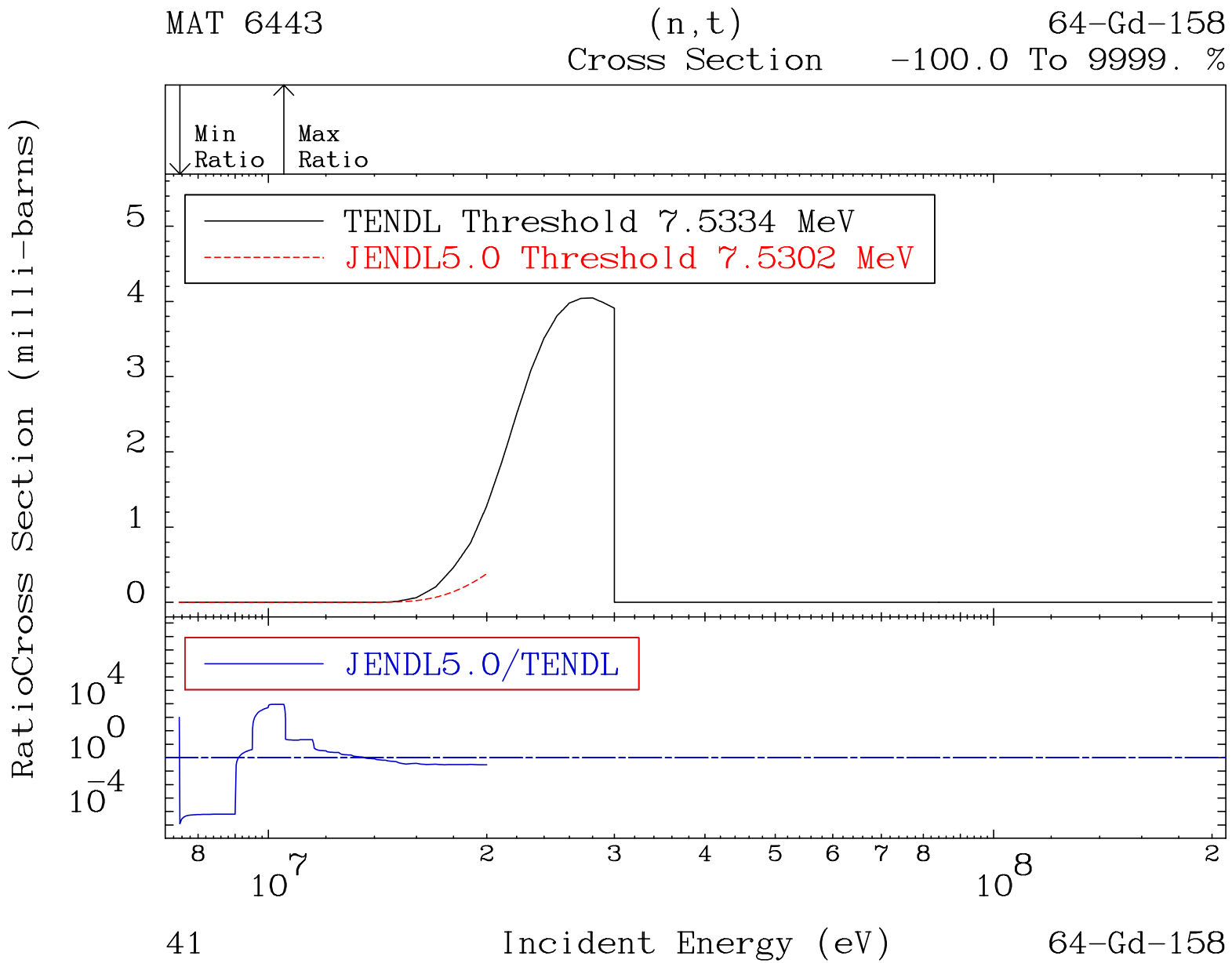

MAT 6443
MT= 77 (n,n') Level
64-Gd-158
Cross Section
-100.0 To 70.35 %
Min Ratio
Max Ratio
TENDL Threshold 1.5272 MeV
JENDL5.0 Threshold 1.5272 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
64-Gd-158

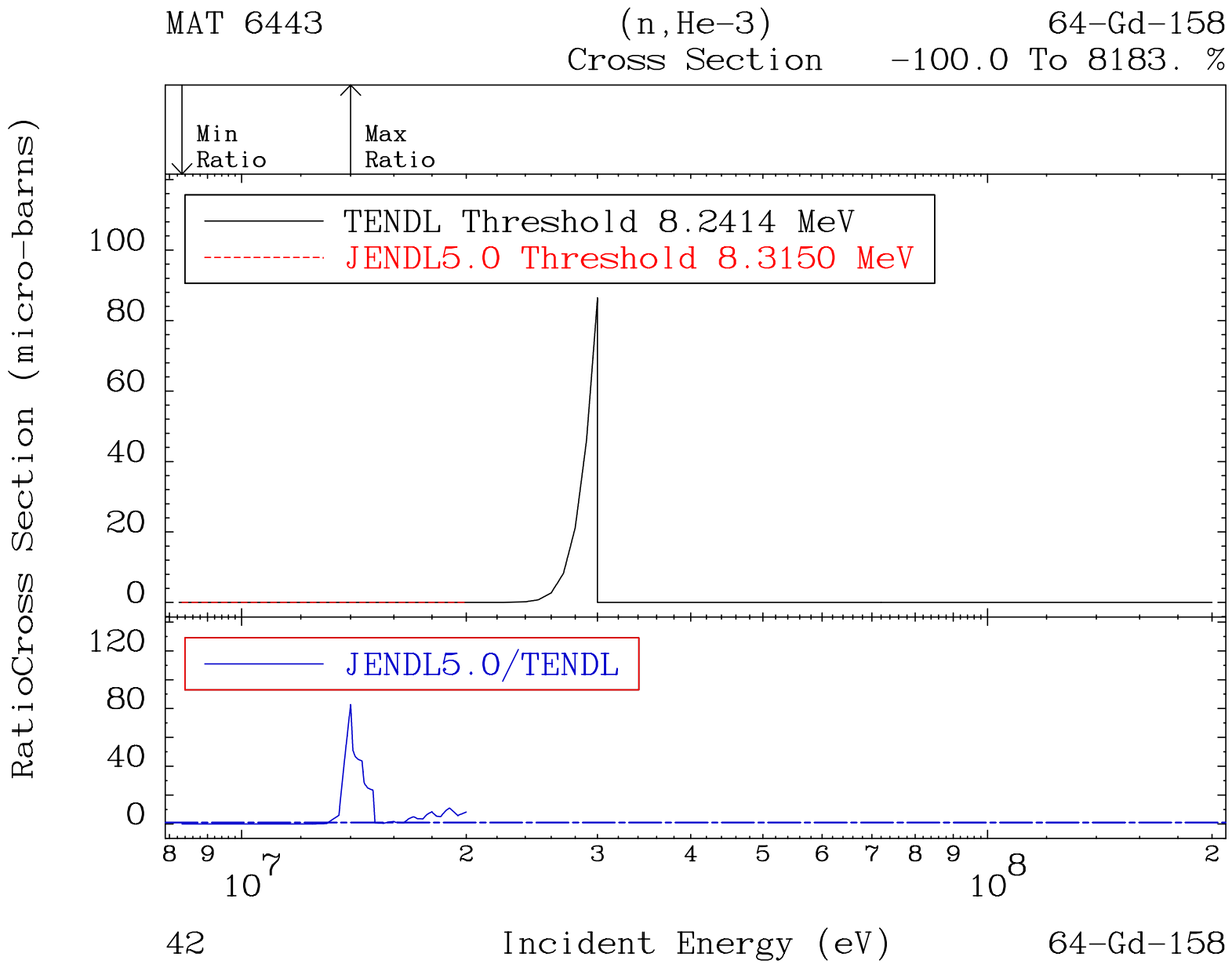

MAT 6443
(n,n') Continuum
Cross Section
64-Gd-158
-52.04 To 23.89 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.5870 MeV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.6
1.2
0.8
0.4
2 3 4 5 7
10^5
10^6
10^7
10^8
37
Incident Energy (eV)
64-Gd-158

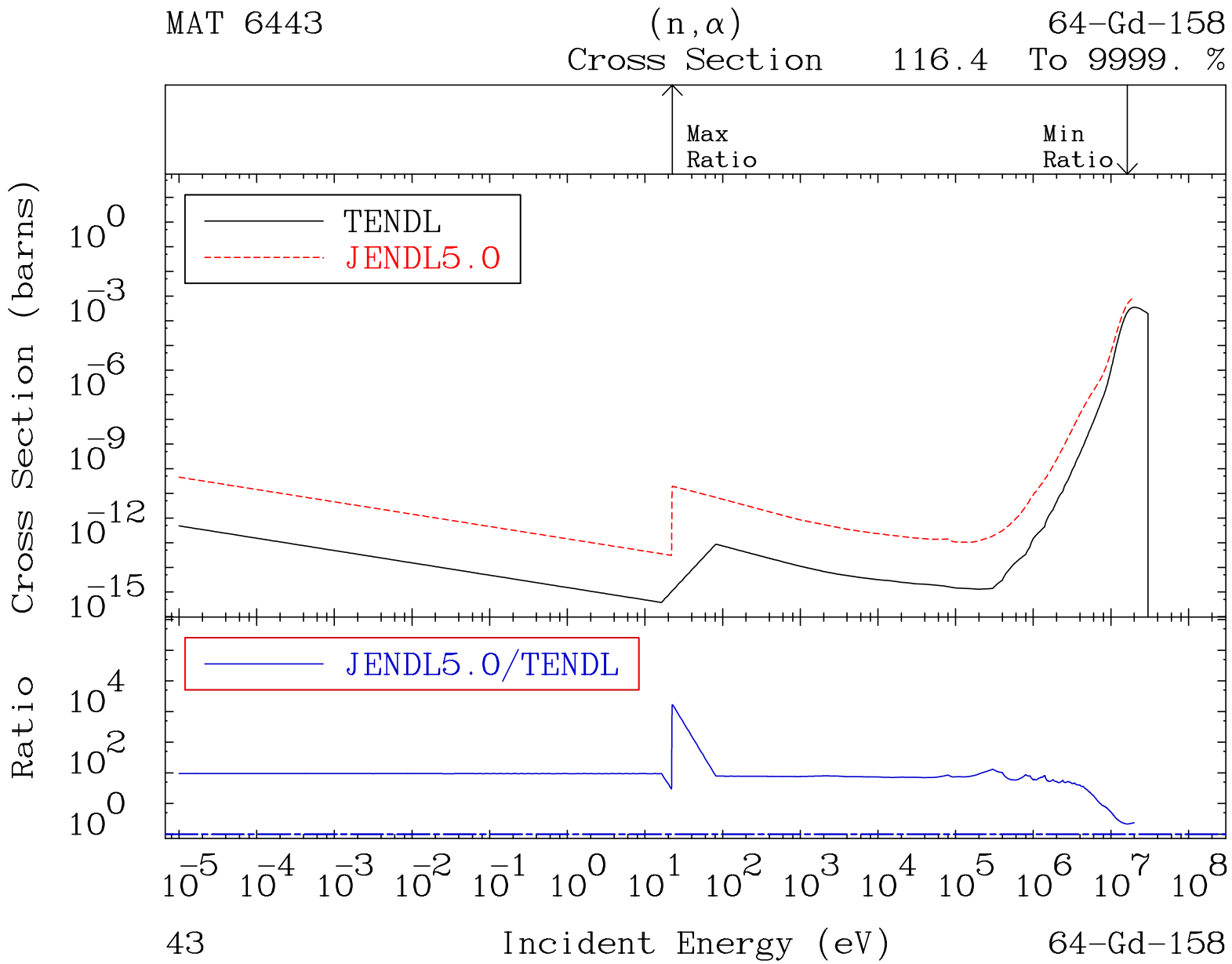

MAT 6443
(n,γ)
64-Gd-158
Cross Section
-99.72 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
38
64-Gd-158

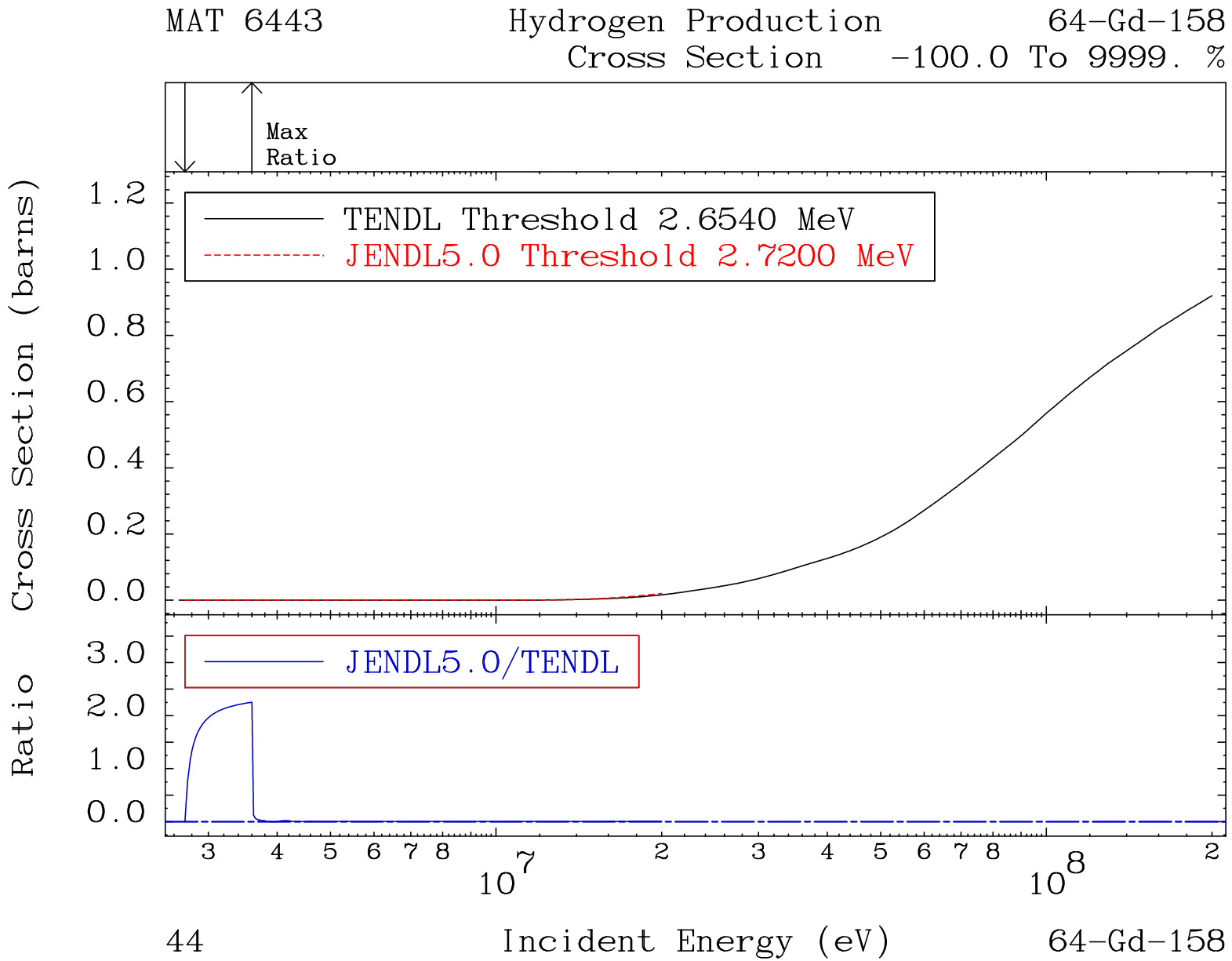

MAT 6443
(n,p)
64-Gd-158
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 2.6540 MeV
JENDL5.0 Threshold 2.7200 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
64-Gd-158

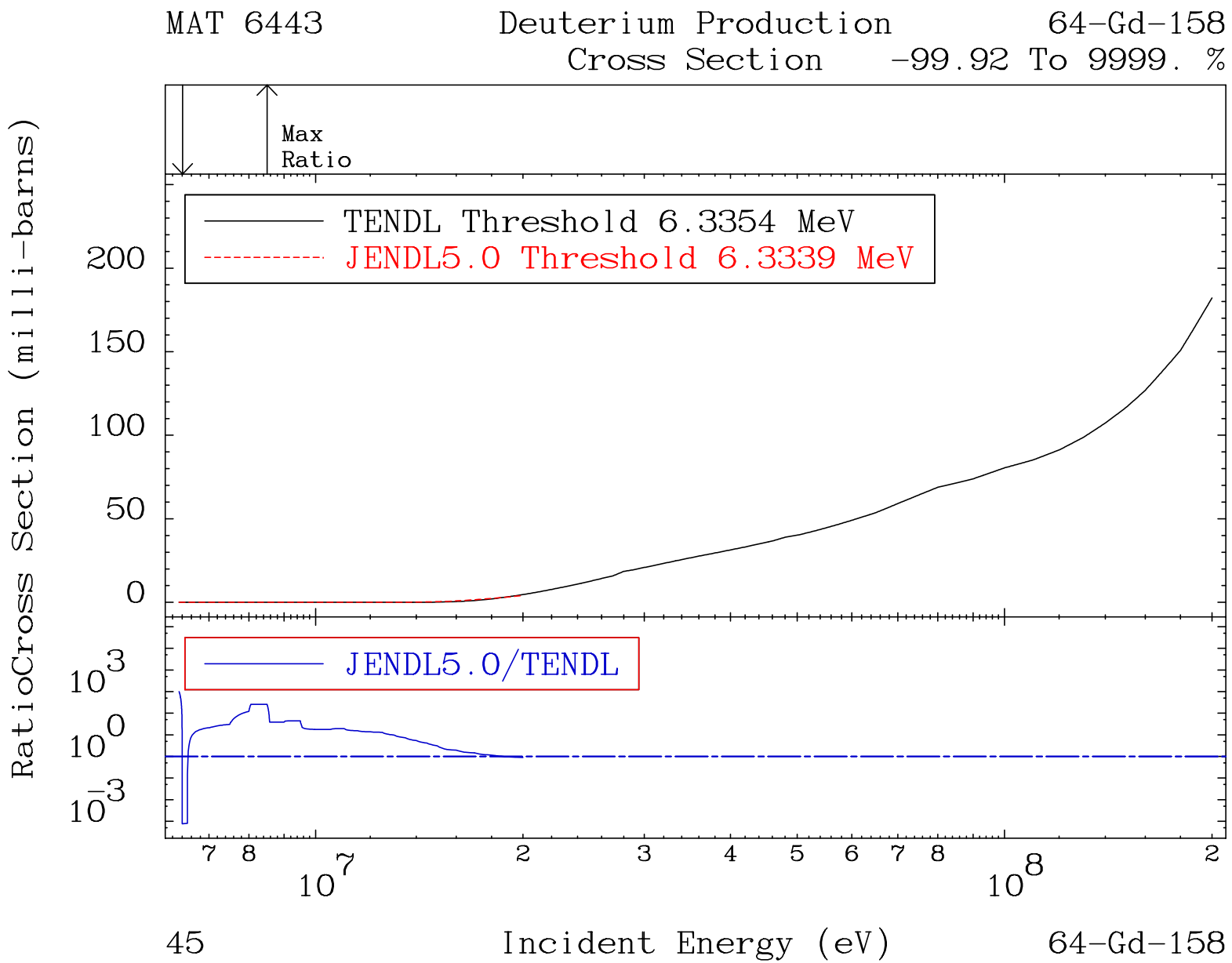

MAT 6443
(n,d)
64-Gd-158
Cross Section
-99.92 To 9999. %
Max
Ratio
TENDL Threshold 6.3354 MeV
JENDL5.0 Threshold 6.3339 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
10^3
10^0
10^-3
7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
64-Gd-158

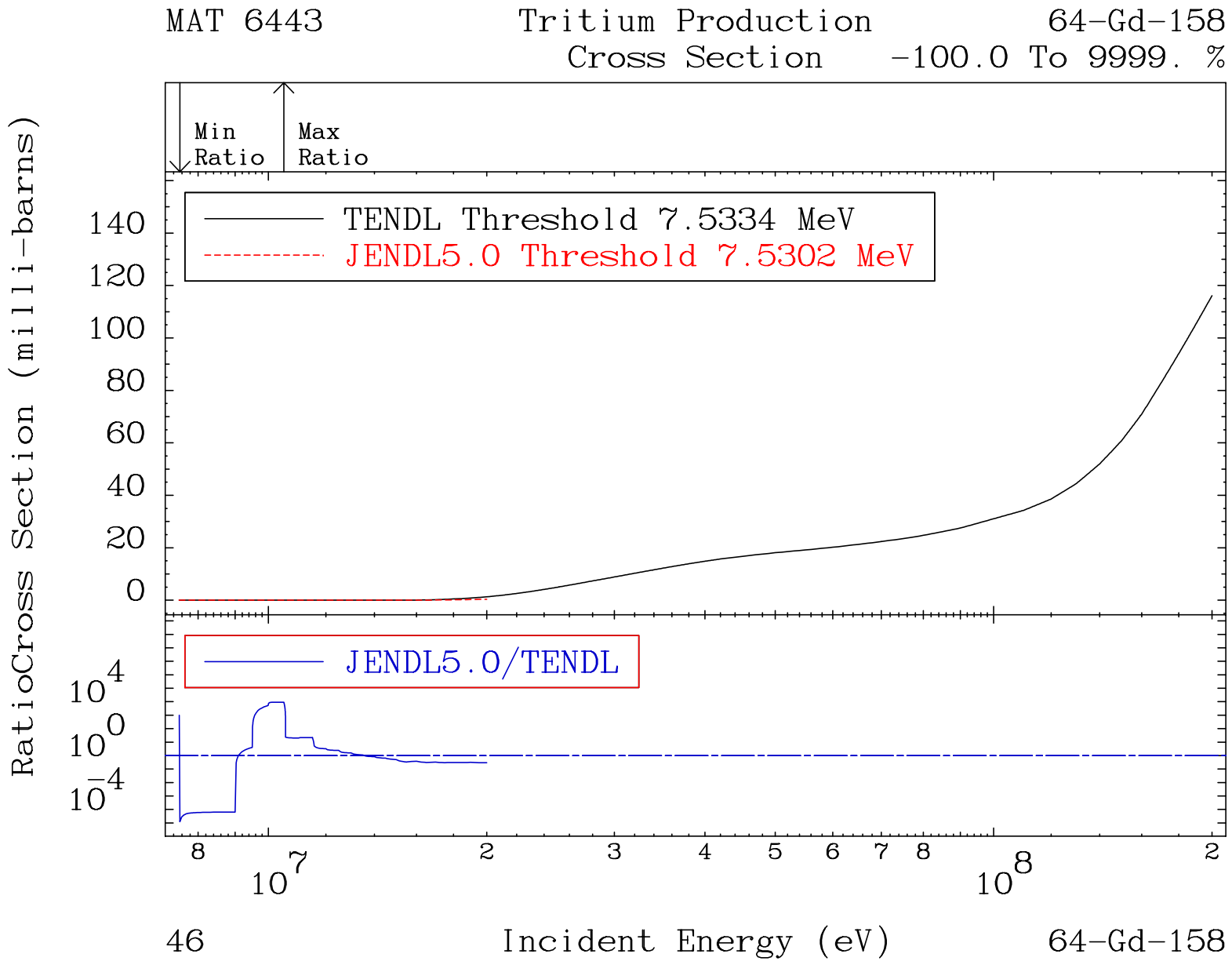

MAT 6443
(n,t)
64-Gd-158
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.5334 MeV
JENDL5.0 Threshold 7.5302 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
41
64-Gd-158

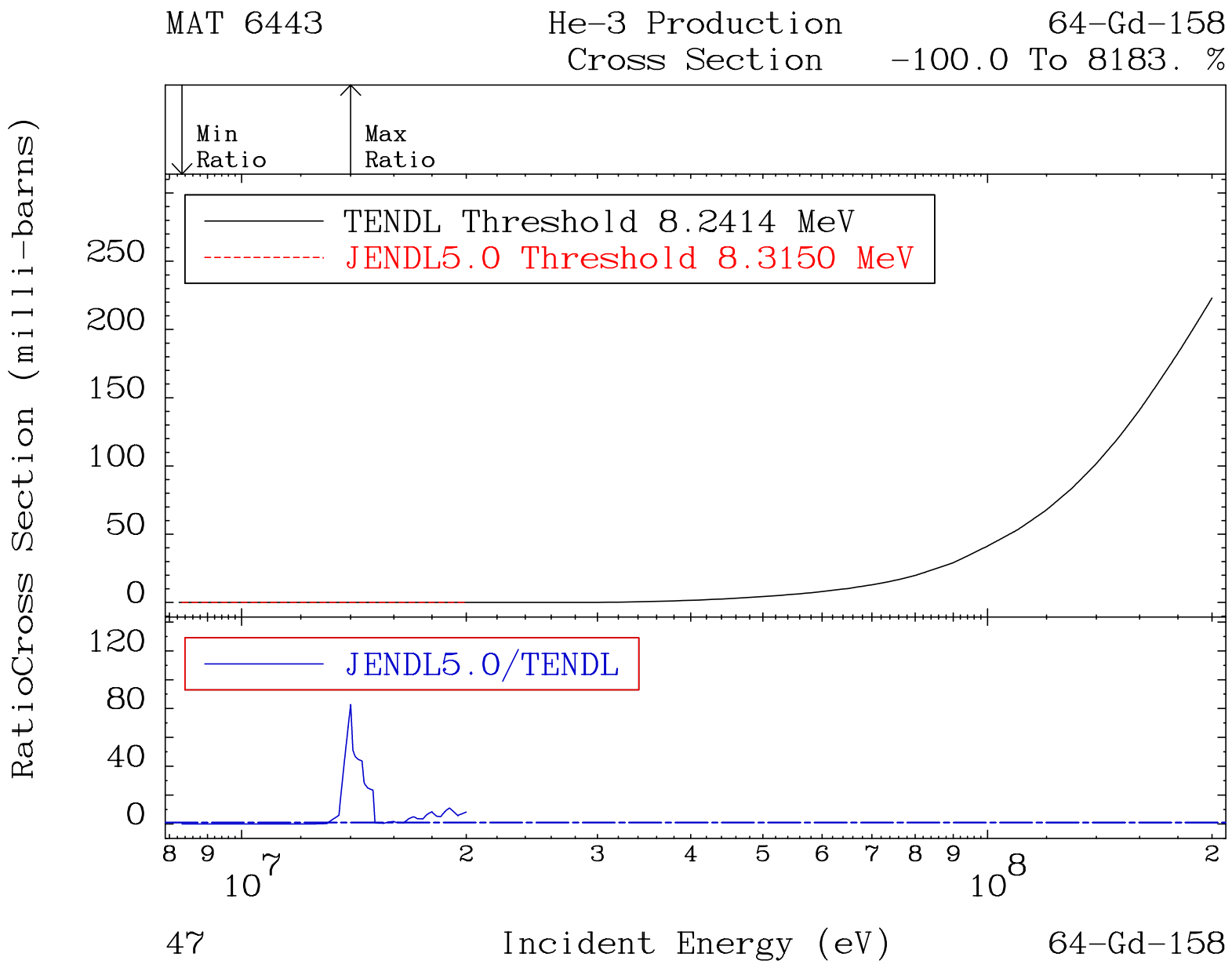

MAT 6443
(n,He-3)
64-Gd-158
Cross Section
-100.0 To 8183. %
Min Ratio
Max Ratio
TENDL Threshold 8.2414 MeV
JENDL5.0 Threshold 8.3150 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
100
80
60
40
20
0
120
80
40
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
64-Gd-158

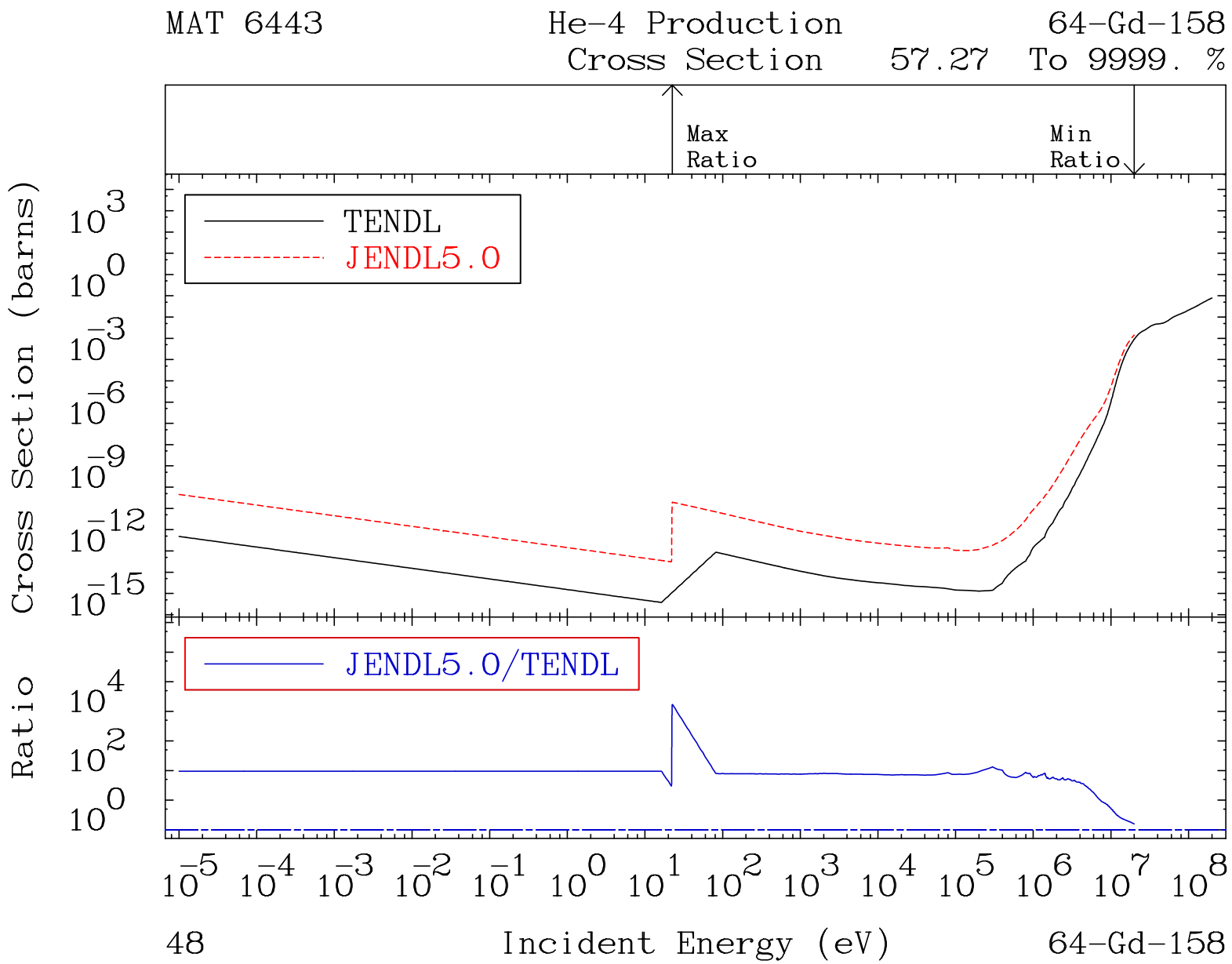

MAT 6443
(n,α)
64-Gd-158
Cross Section 116.4 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
43
64-Gd-158

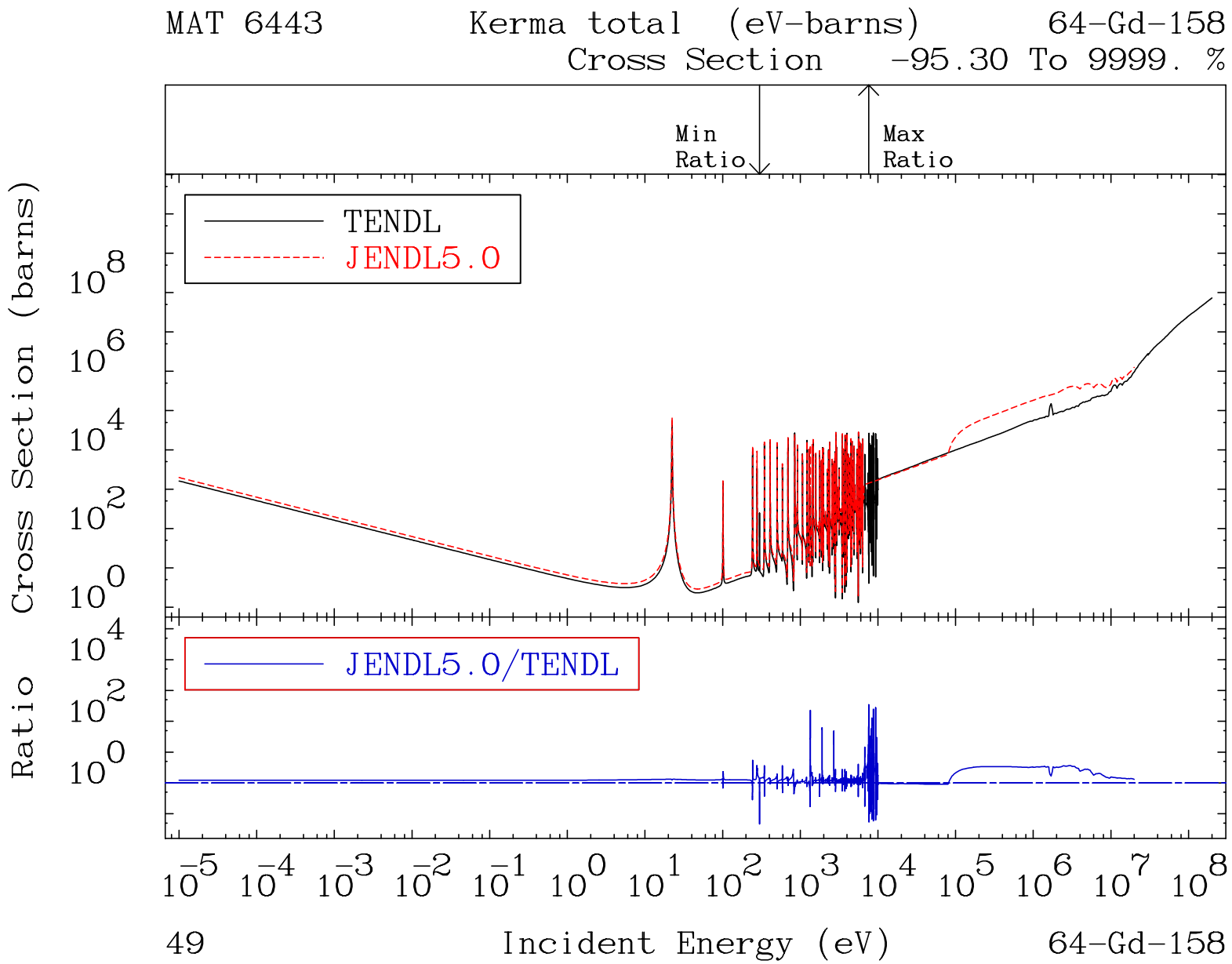

MAT 6443
Hydrogen Production
64-Gd-158
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 2.6540 MeV
JENDL5.0 Threshold 2.7200 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
3.0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
44
Incident Energy (eV)
64-Gd-158

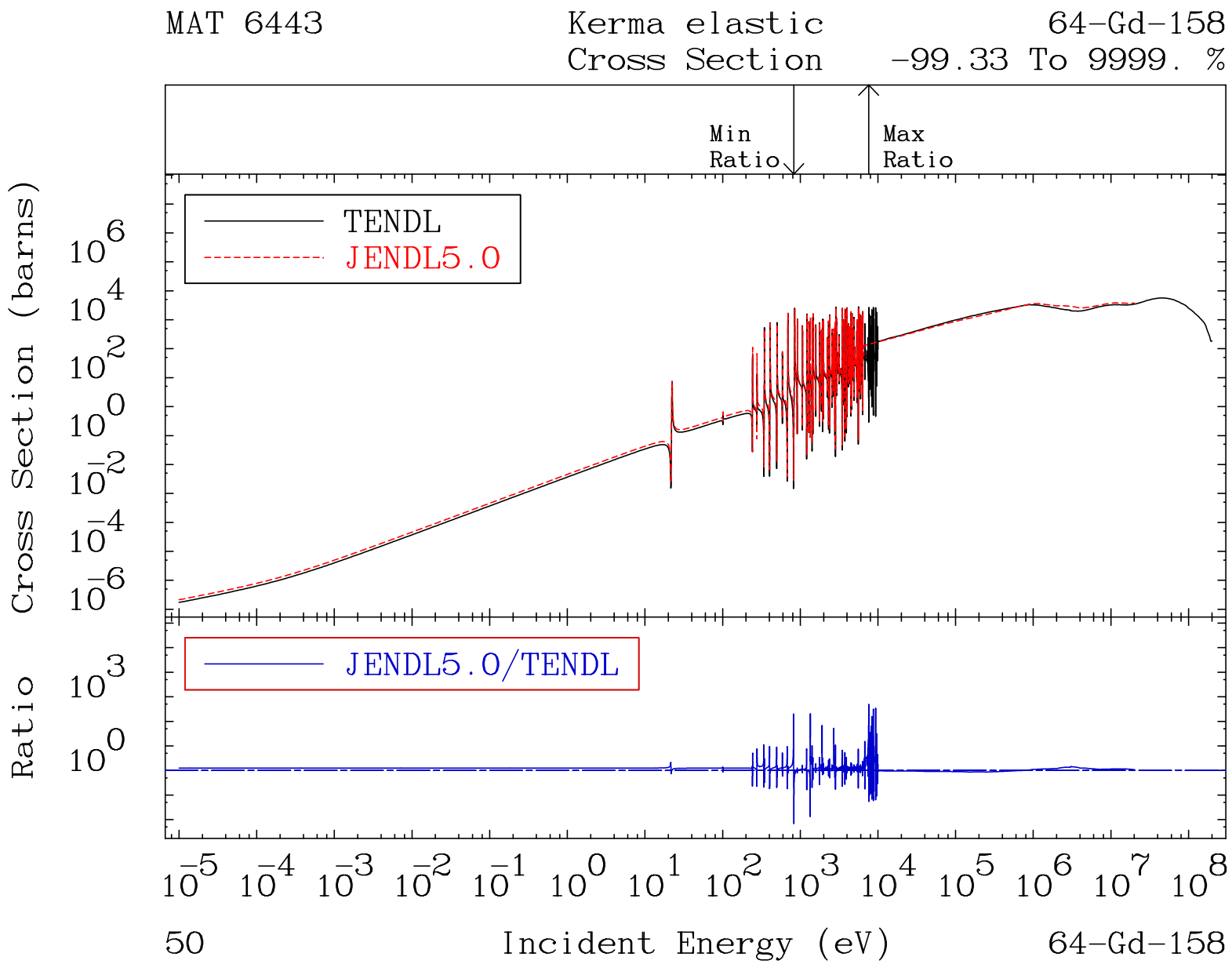

MAT 6443
Deuterium Production
64-Gd-158
Cross Section -99.92 To 9999. %
Max
Ratio
TENDL Threshold 6.3354 MeV
JENDL5.0 Threshold 6.3339 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^3
10^0
10^-3
7 8 10^7 2 3 4 5 6 7 8 10^8 2
45
Incident Energy (eV)
64-Gd-158

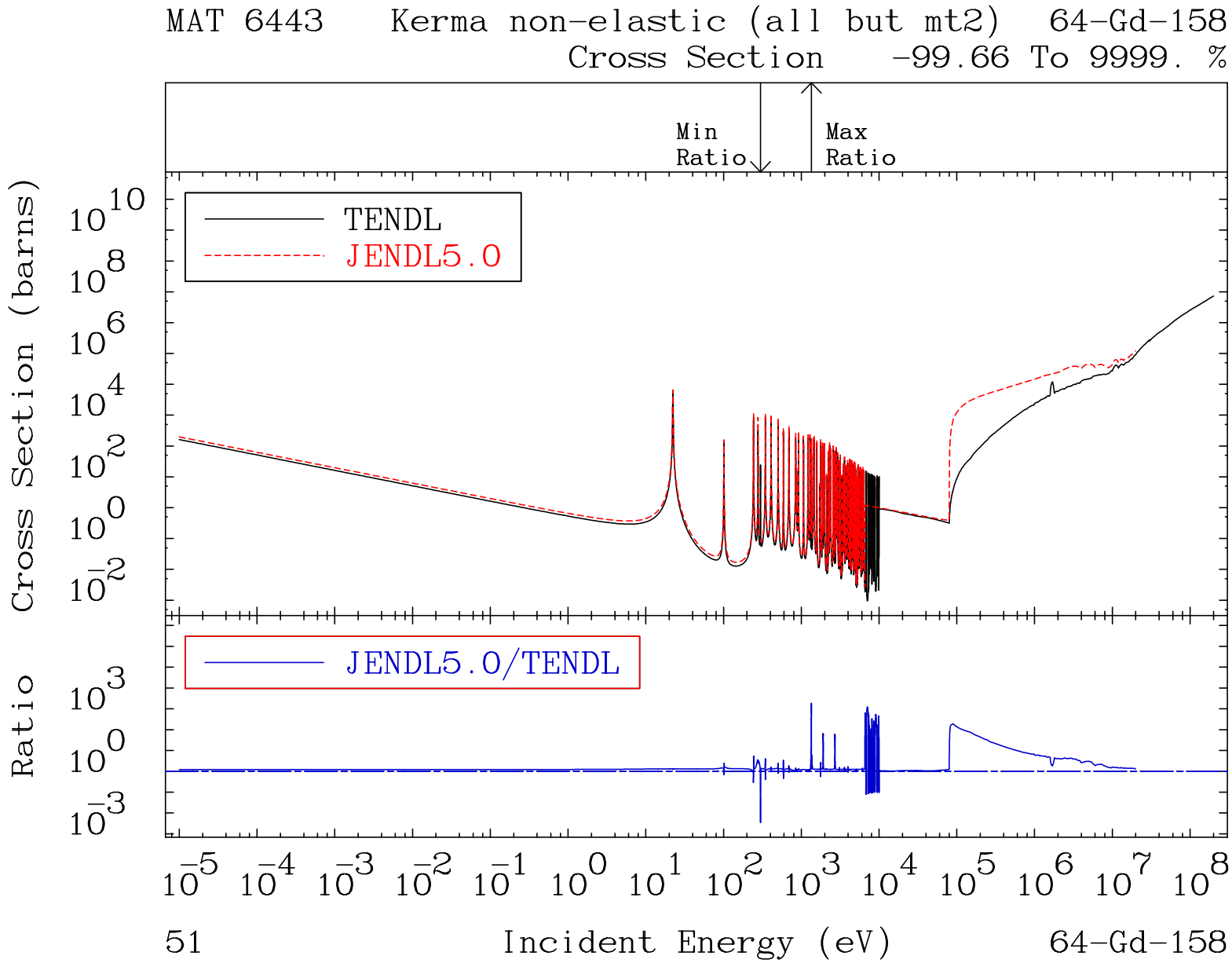

MAT 6443
Tritium Production
64-Gd-158
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.5334 MeV
JENDL5.0 Threshold 7.5302 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
10^4
10^0
10^-4
8
10^7
2
3
4
5
6
7
8
10^8
2
46
Incident Energy (eV)
64-Gd-158

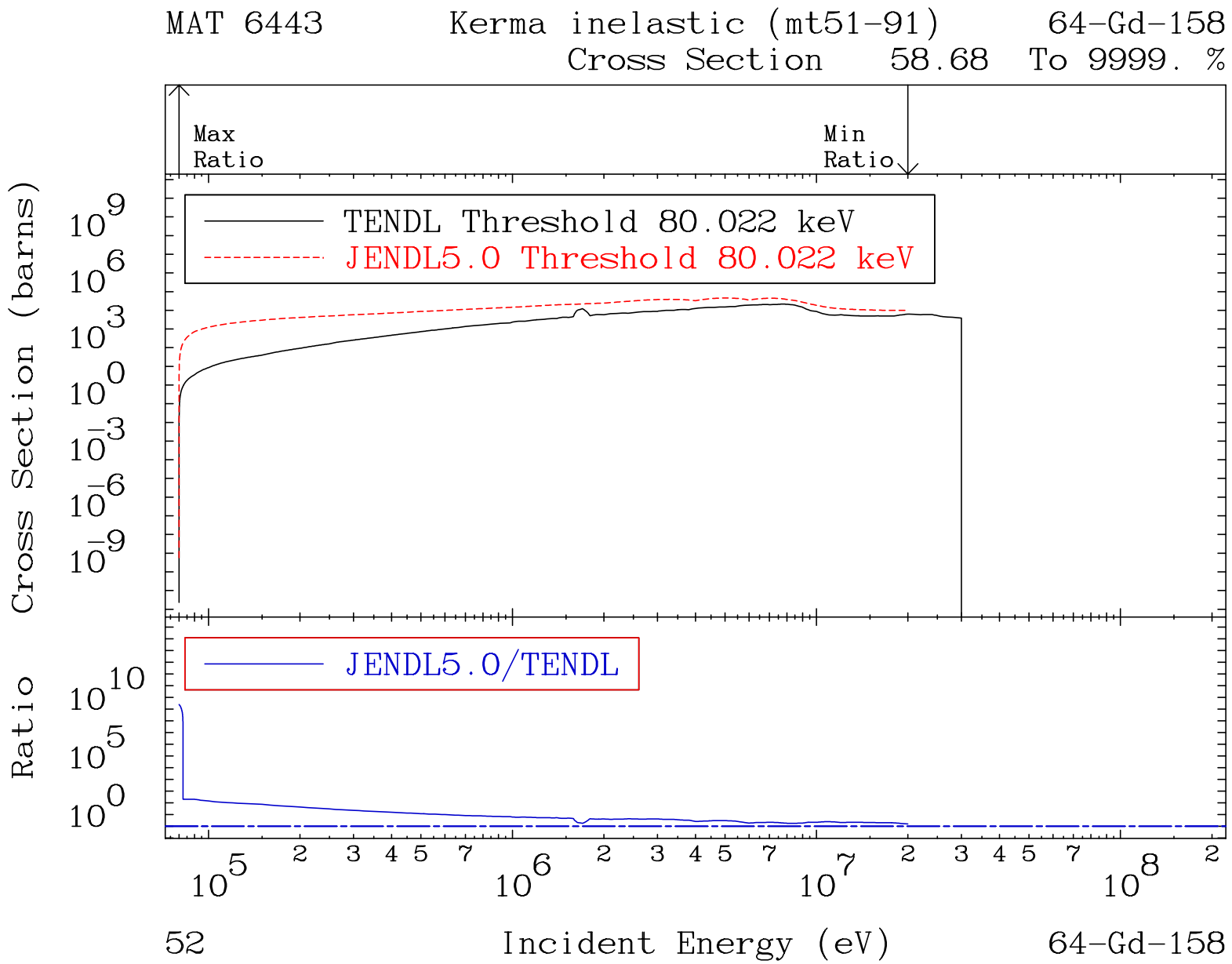

MAT 6443
He-3 Production
Cross Section
64-Gd-158
-100.0 To 8183. %
Min Ratio
Max Ratio
TENDL Threshold 8.2414 MeV
JENDL5.0 Threshold 8.3150 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
120
80
40
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
64-Gd-158

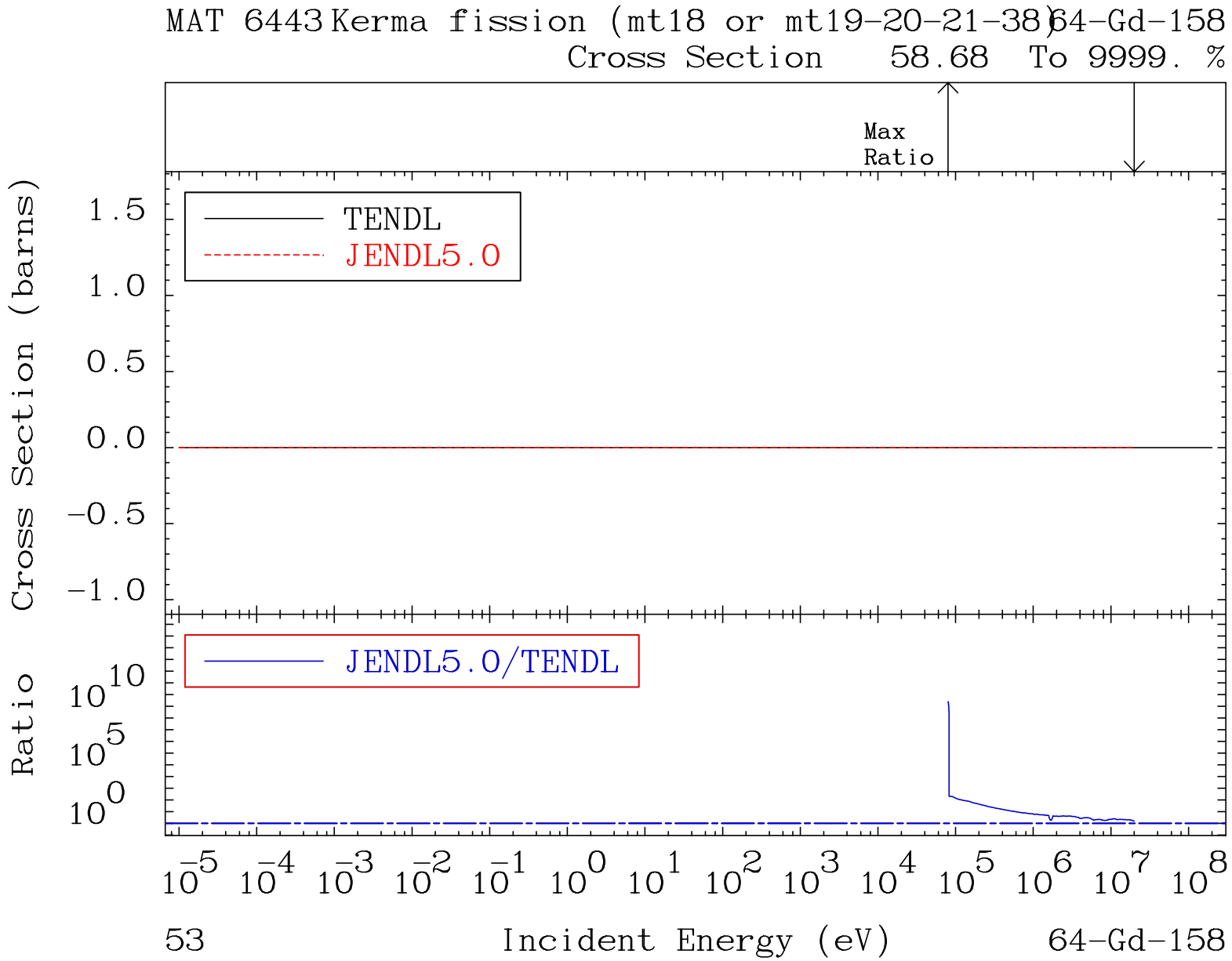

MAT 6443
He-4 Production
Cross Section
64-Gd-158
57.27 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
64-Gd-158

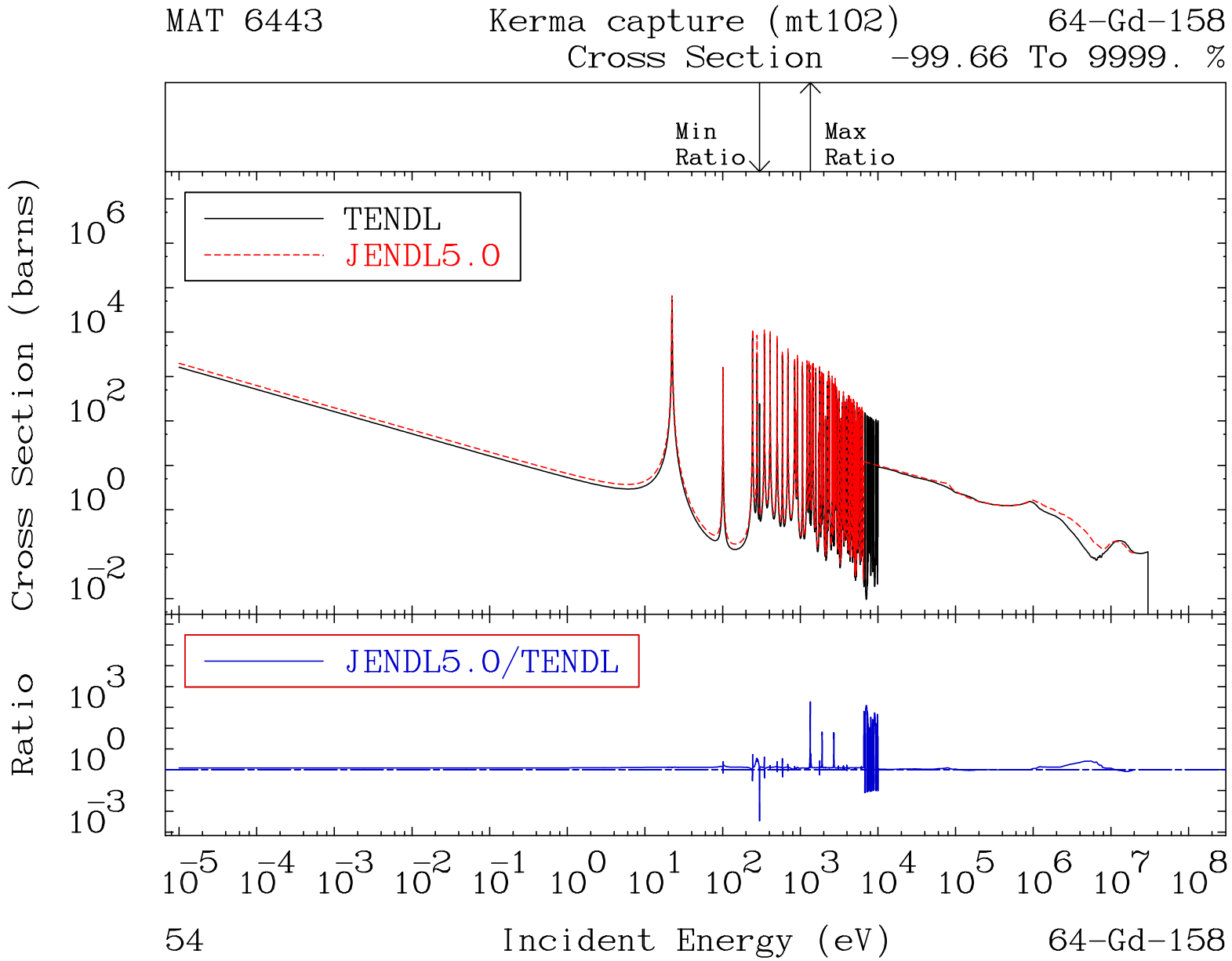

MAT 6443
Kerma total (eV-barns)
64-Gd-158
Cross Section -95.30 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
64-Gd-158

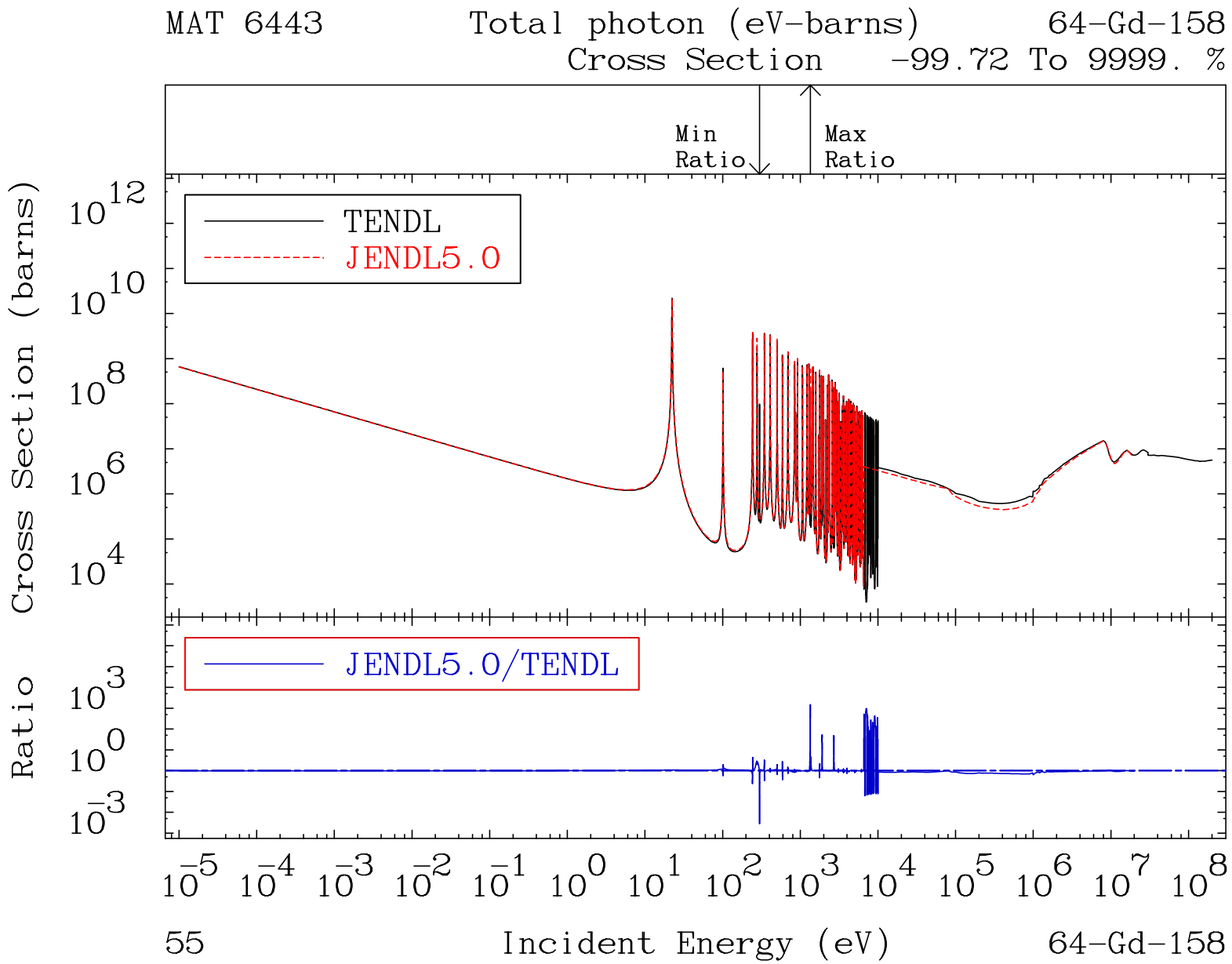

MAT 6443
Kerma elastic
Cross Section
64-Gd-158
-99.33 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
50
64-Gd-158

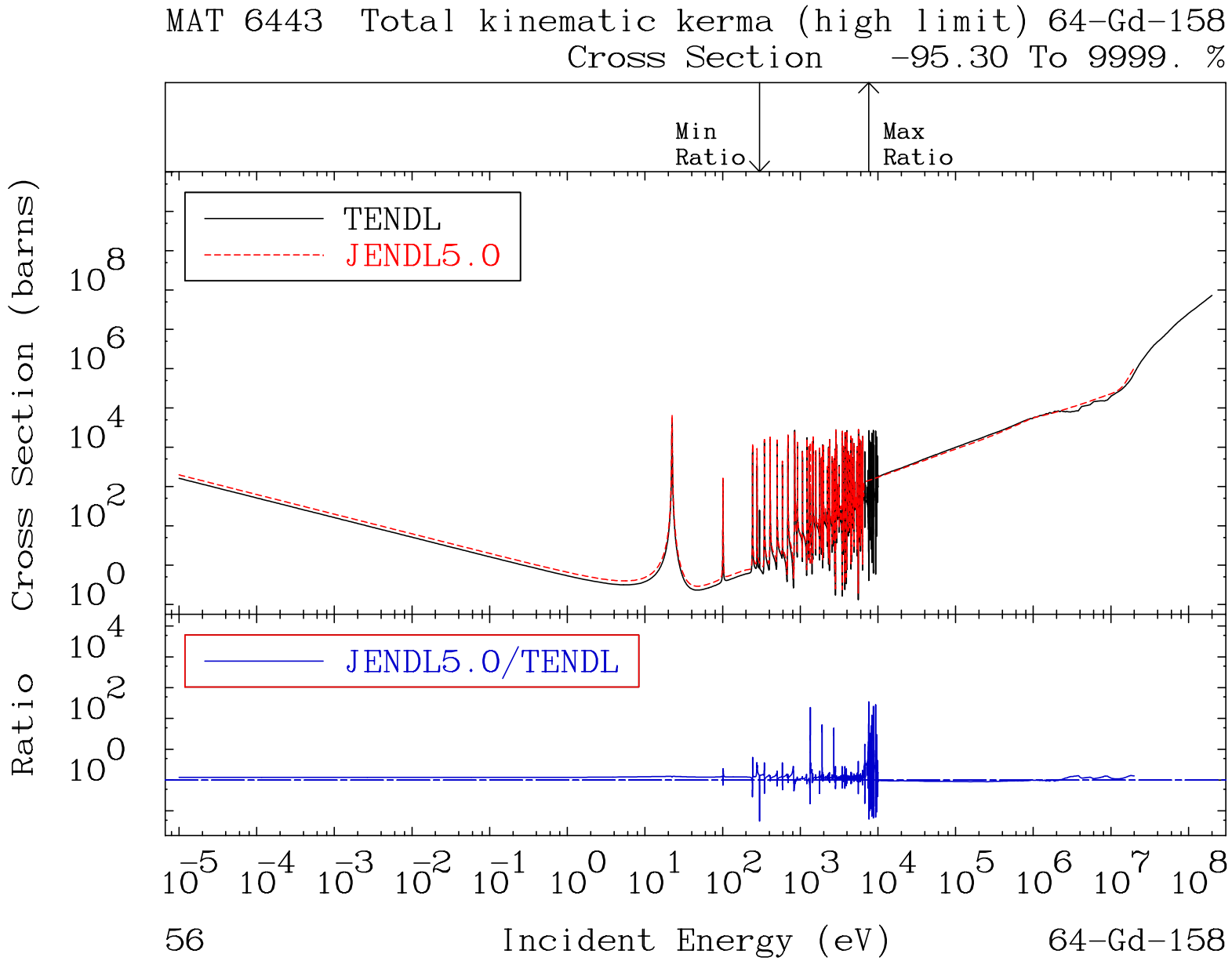

MAT 6443 Kerma non-elastic (all but mt2) 64-Gd-158
Cross Section -99.66 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
64-Gd-158

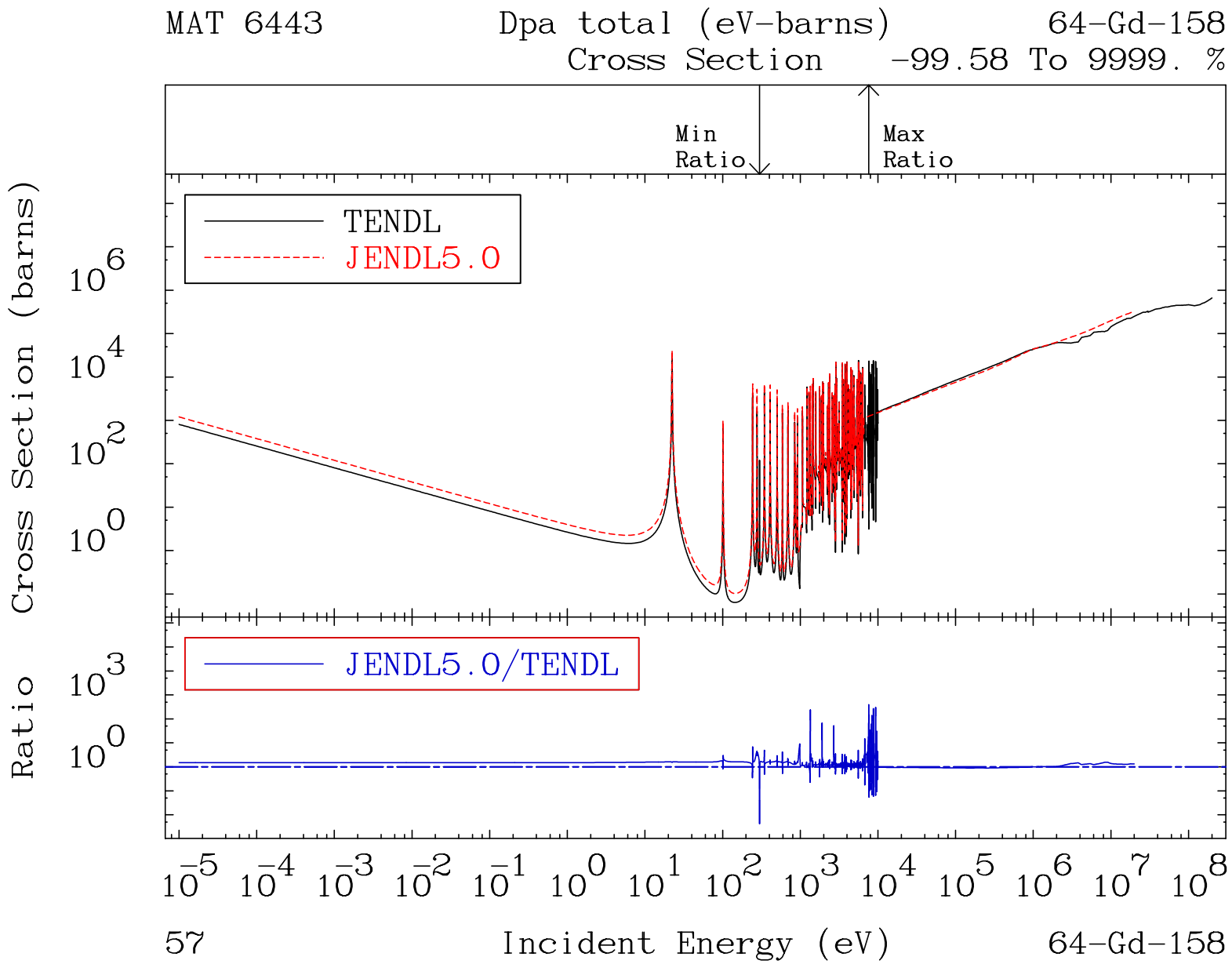

MAT 6443 Kerma inelastic (mt51-91) 64-Gd-158
Cross Section 58.68 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 80.022 keV
JENDL5.0 Threshold 80.022 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
64-Gd-158

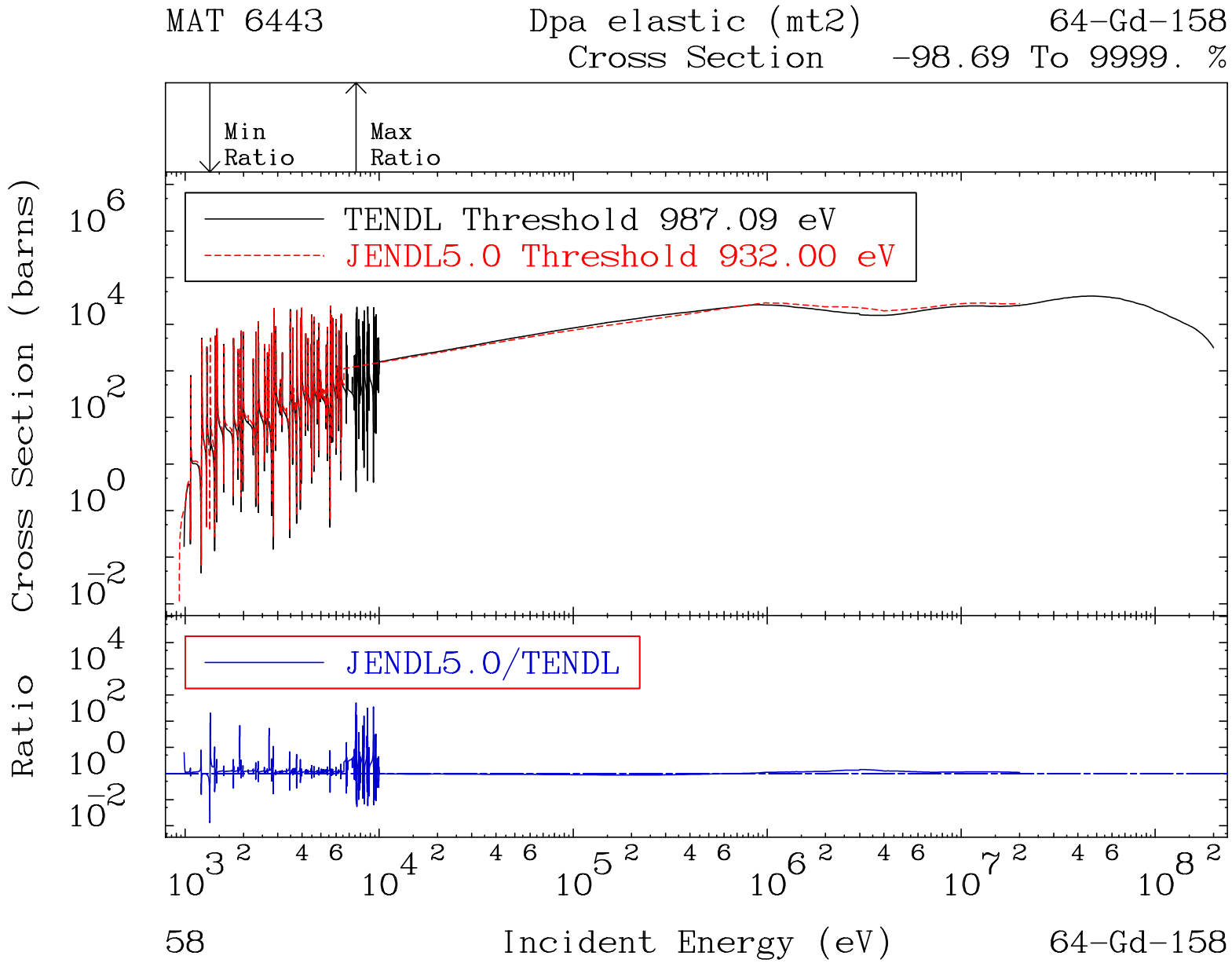

MAT 6443 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-158
Cross Section 58.68 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^10
10^5
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
53
Incident Energy (eV)
64-Gd-158

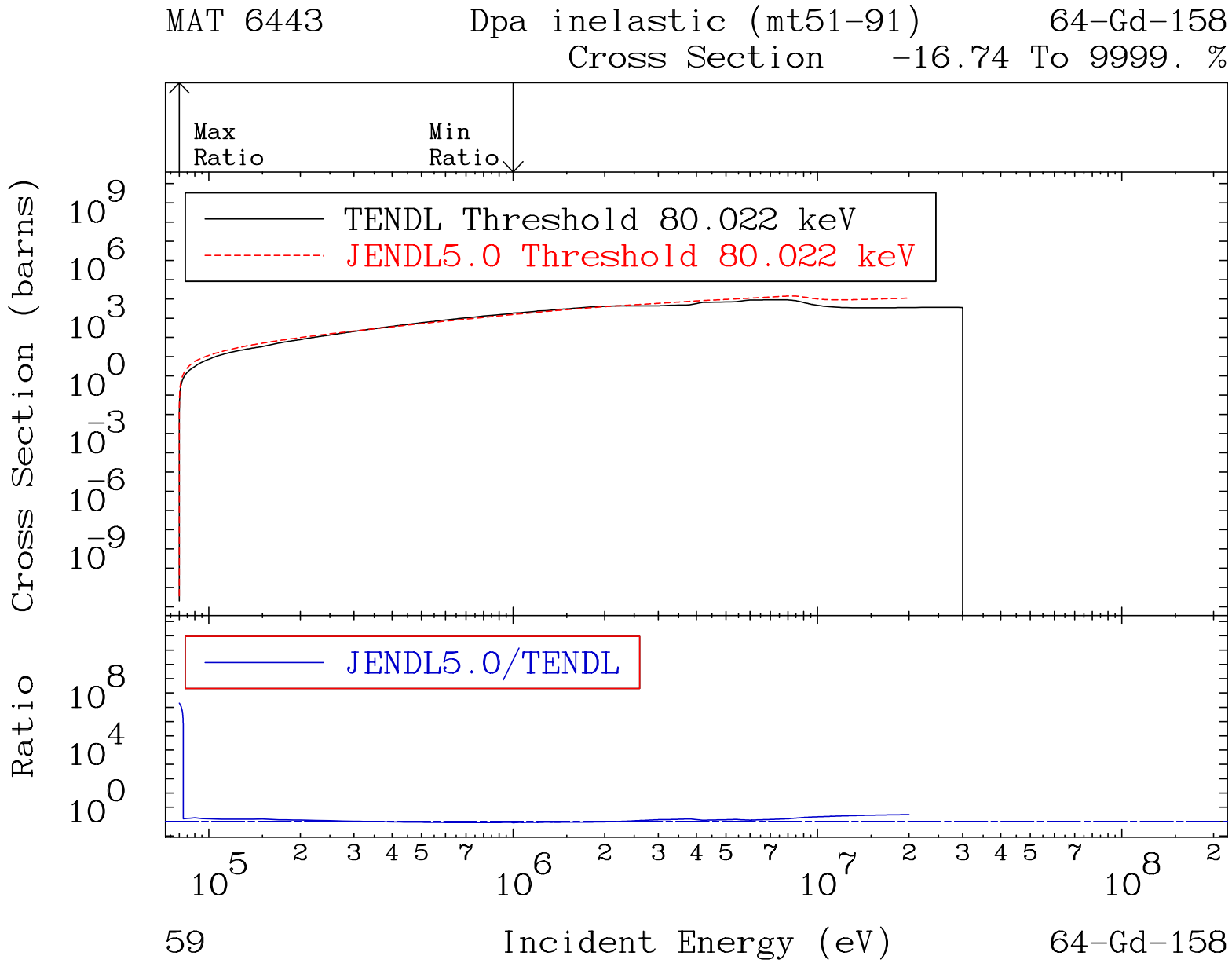

MAT 6443
Kerma capture (mt102)
64-Gd-158
Cross Section -99.66 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
64-Gd-158

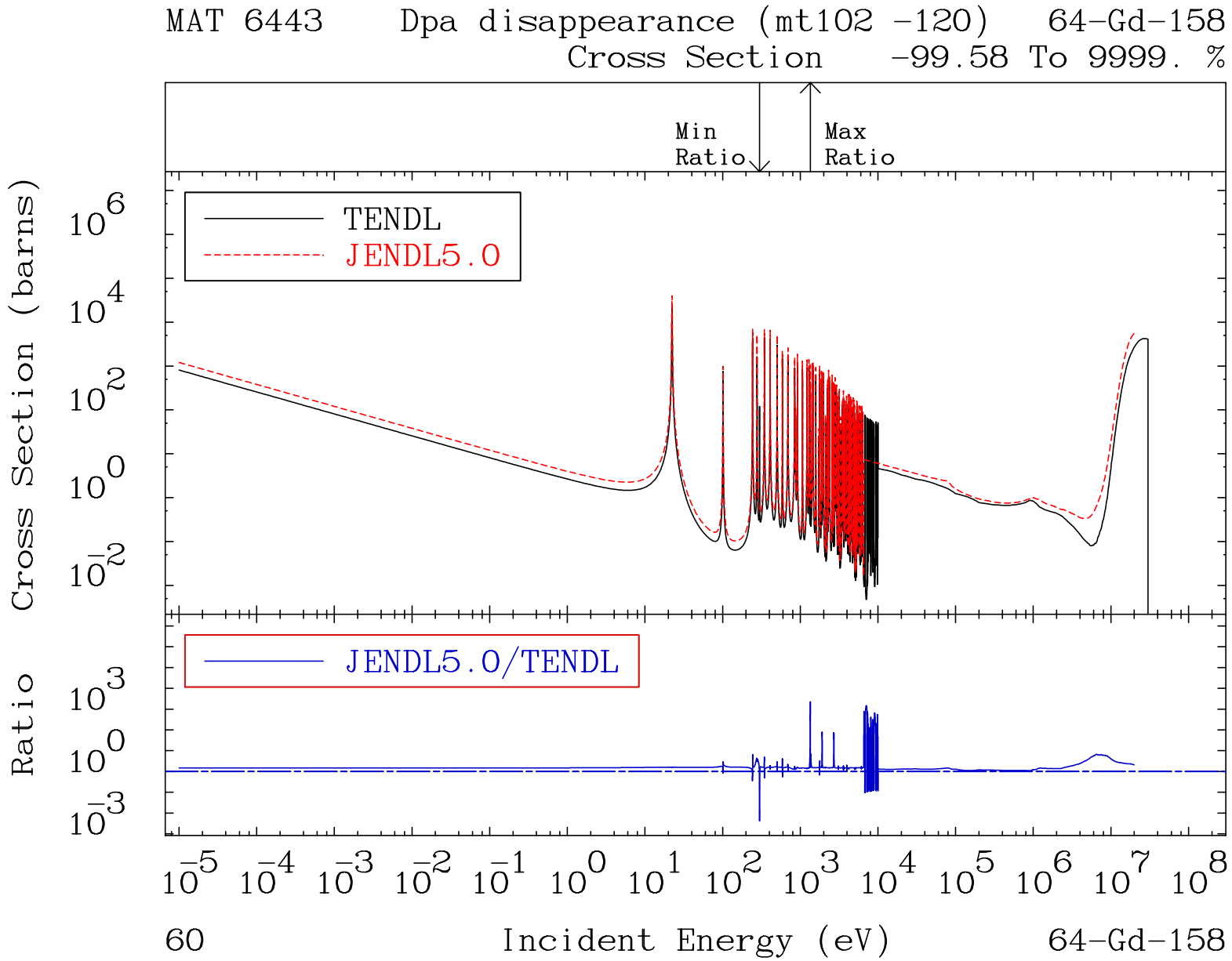

MAT 6443
Total photon (eV-barns)
64-Gd-158
Cross Section -99.72 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
64-Gd-158


MAT 6443 Total kinematic kerma (high limit) 64-Gd-158
Cross Section -95.30 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
64-Gd-158


MAT 6443
Dpa total (eV-barns)
64-Gd-158
Cross Section -99.58 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
64-Gd-158


MAT 6443
Dpa elastic (mt2)
Cross Section
64-Gd-158
-98.69 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 987.09 eV
JENDL5.0 Threshold 932.00 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
64-Gd-158


MAT 6443
Dpa inelastic (mt51-91)
64-Gd-158
Cross Section
-16.74 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 80.022 keV
JENDL5.0 Threshold 80.022 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
64-Gd-158


MAT 6443 Dpa disappearance (mt102 -120) 64-Gd-158
Cross Section -99.58 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
60
64-Gd-158