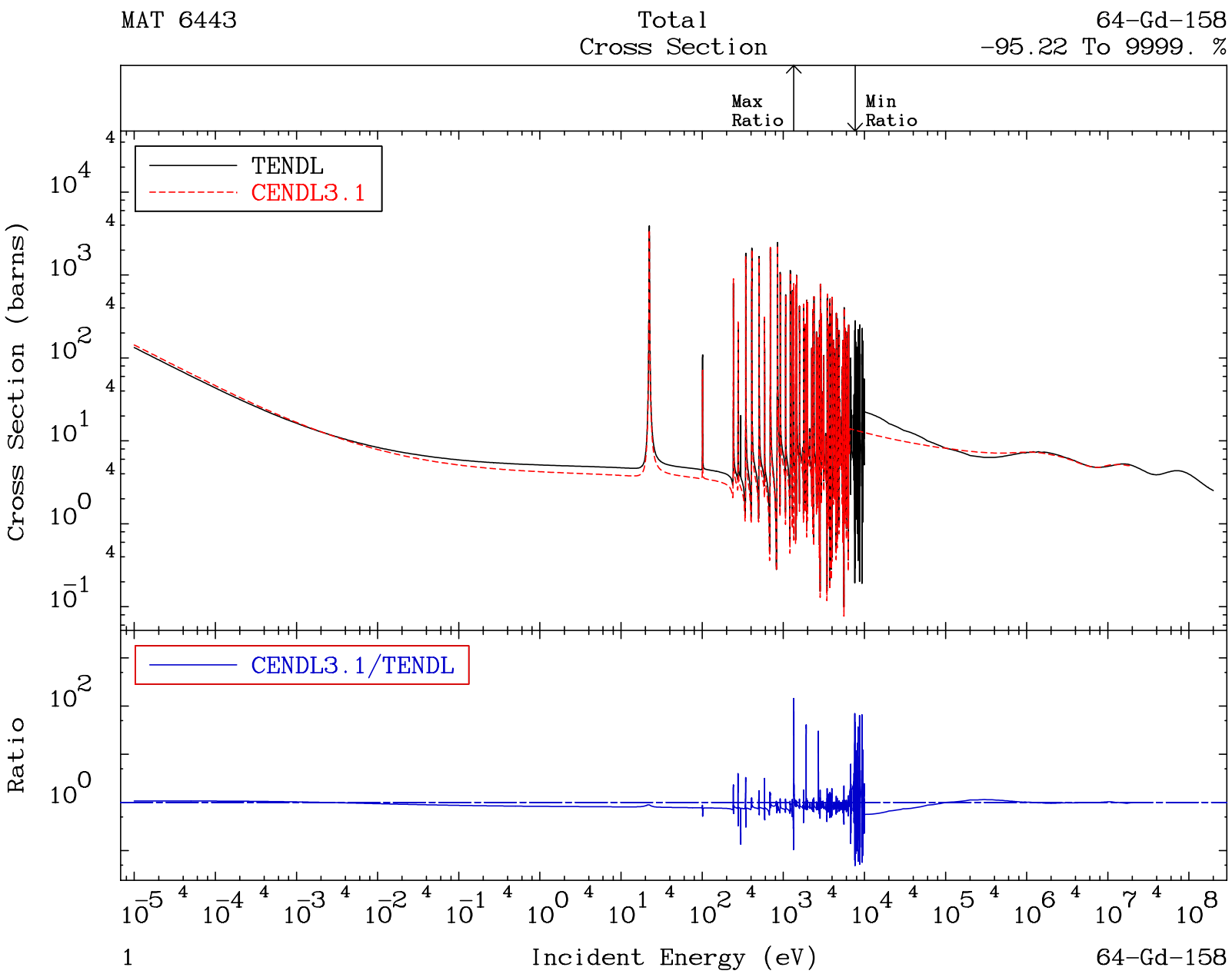
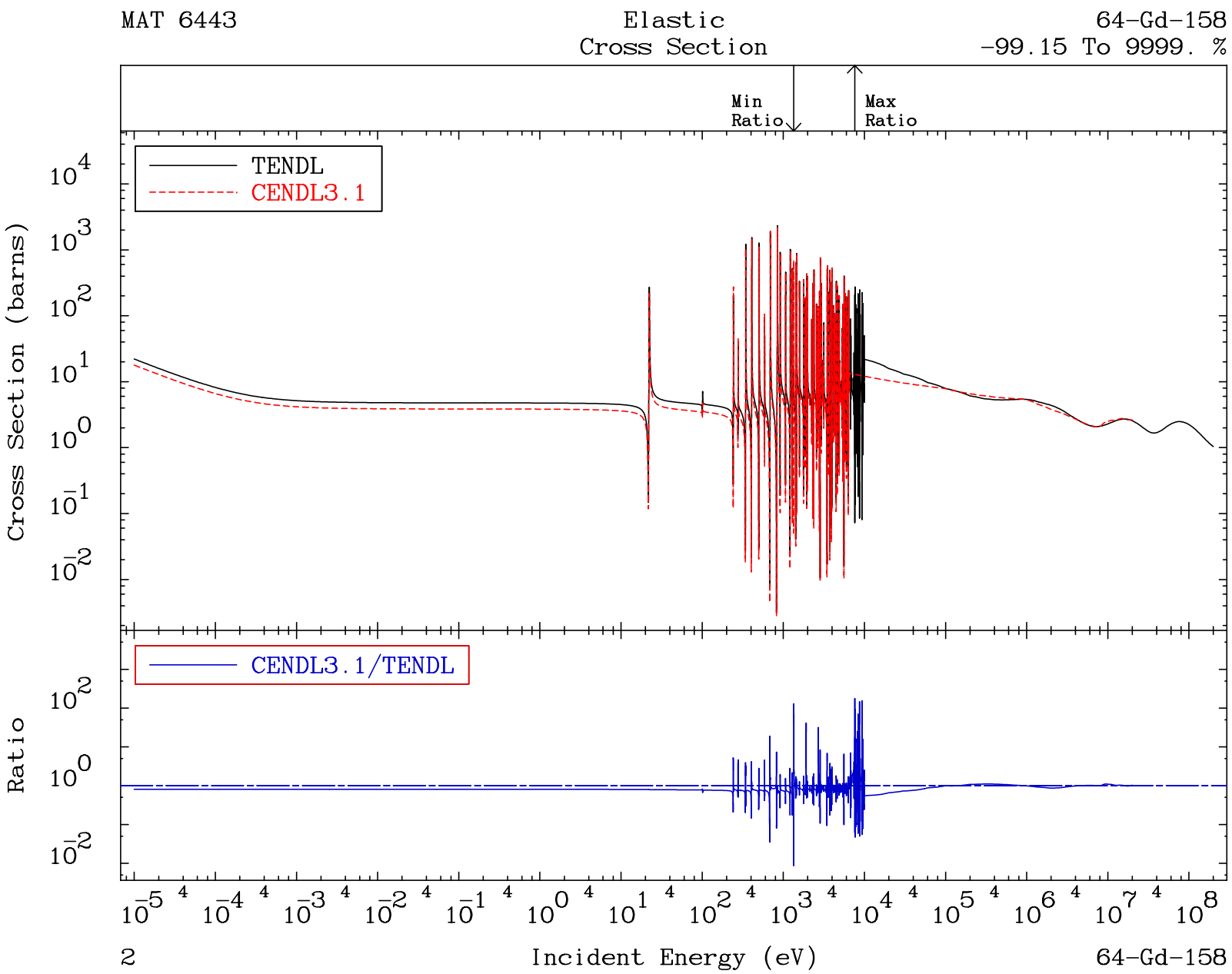
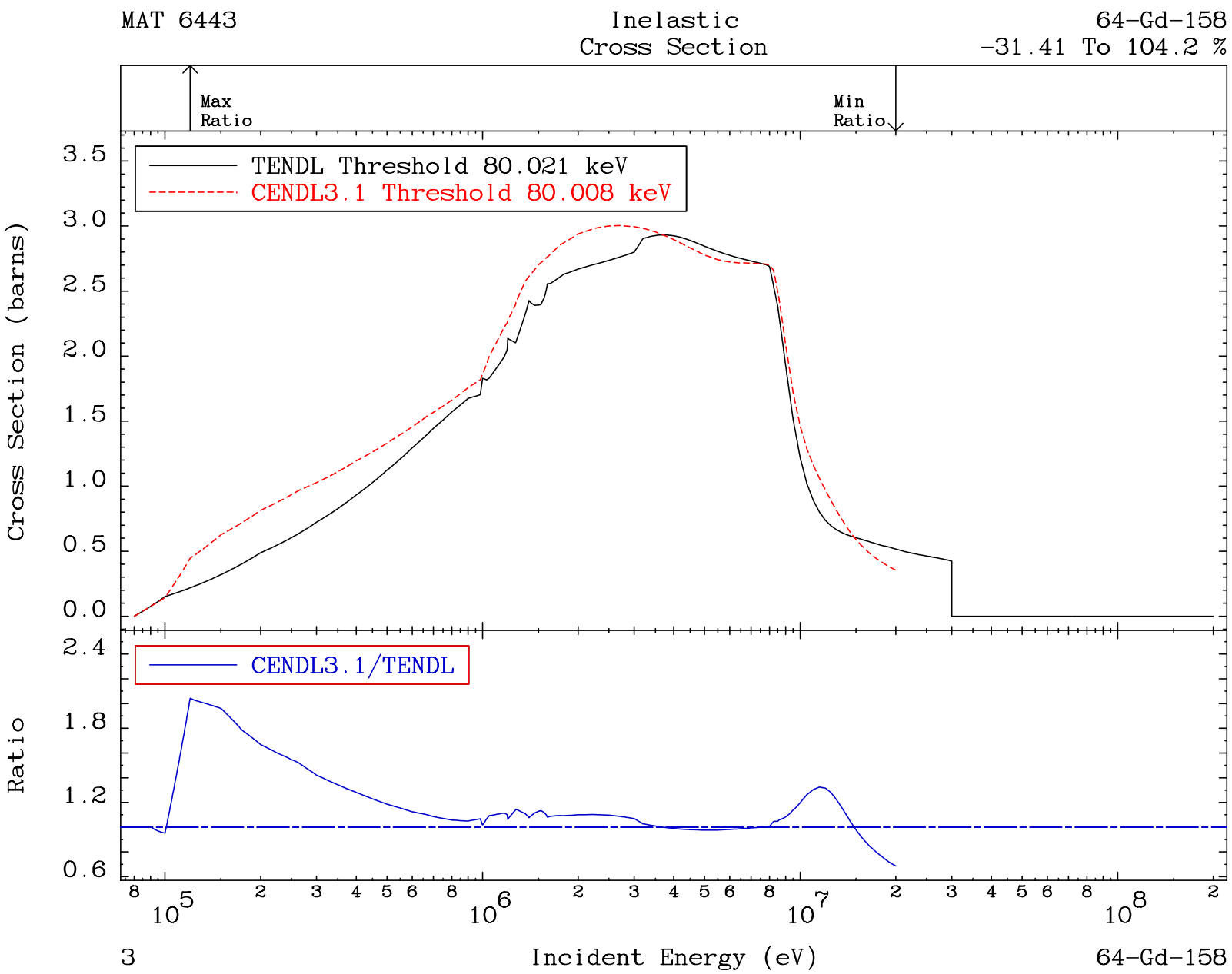
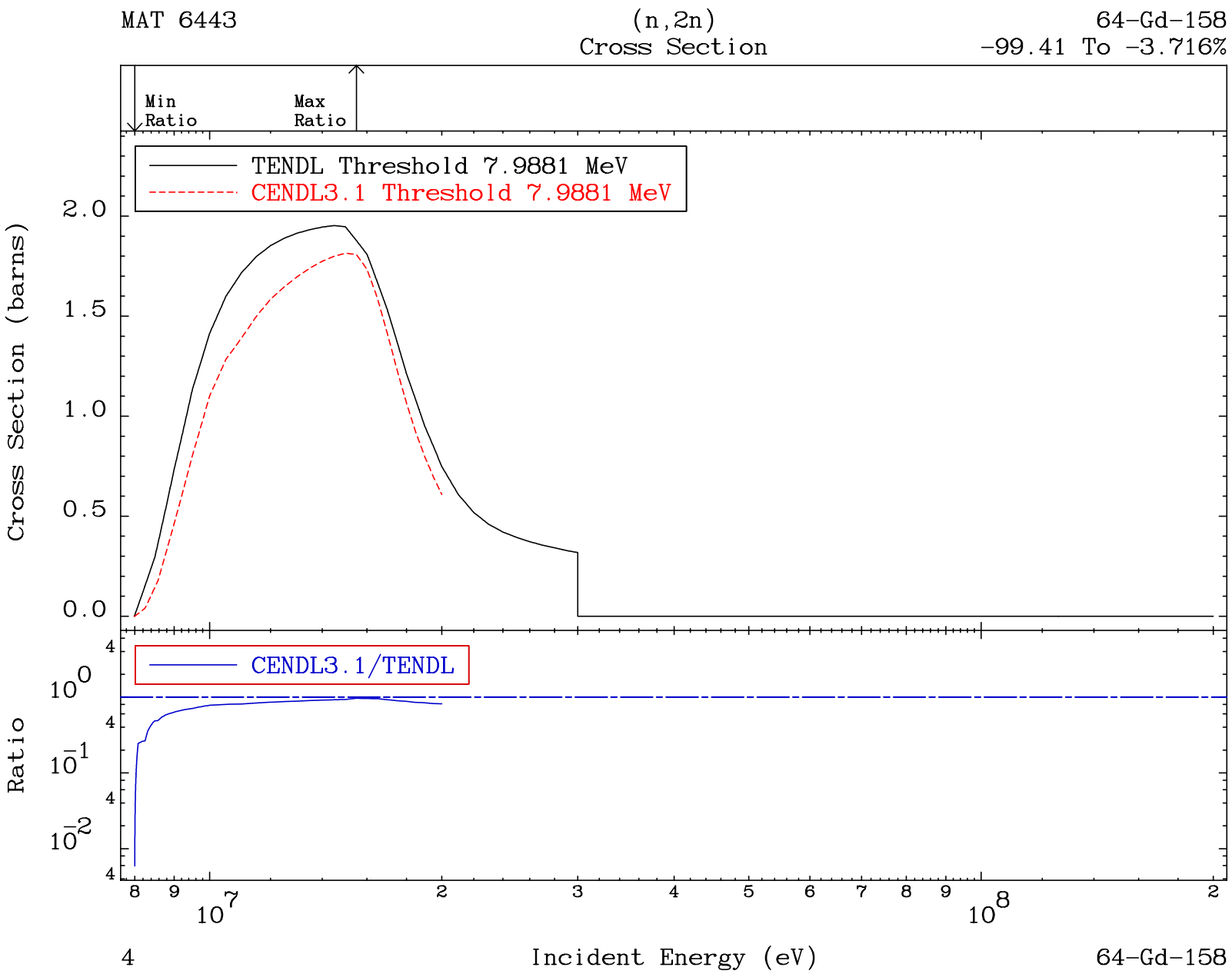
Program Complot
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

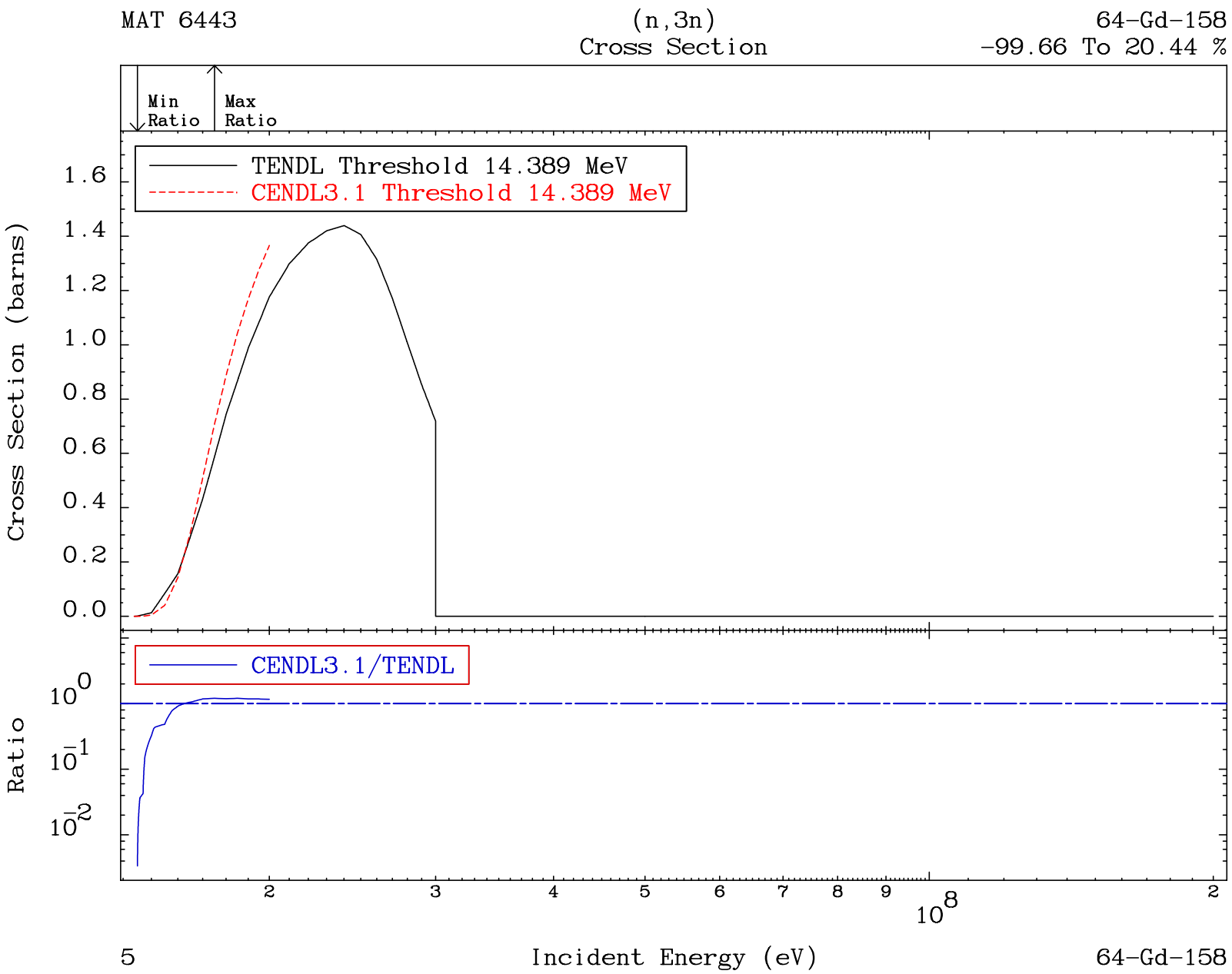
Press Mouse Button to Start

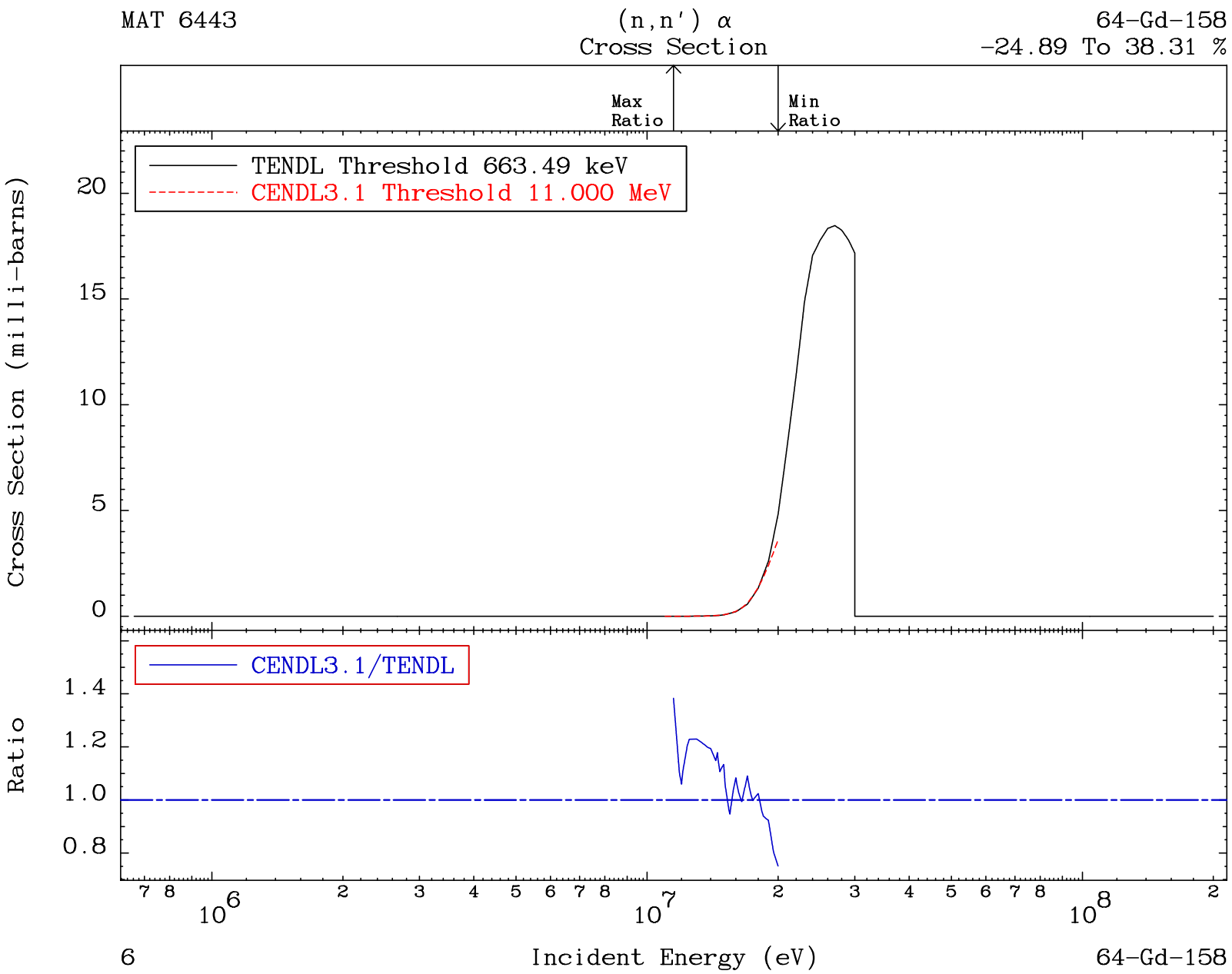

MAT 6443
Total
Cross Section
64-Gd-158
-95.22 To 9999. %
Max
Ratio
Min
Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
1
64-Gd-158

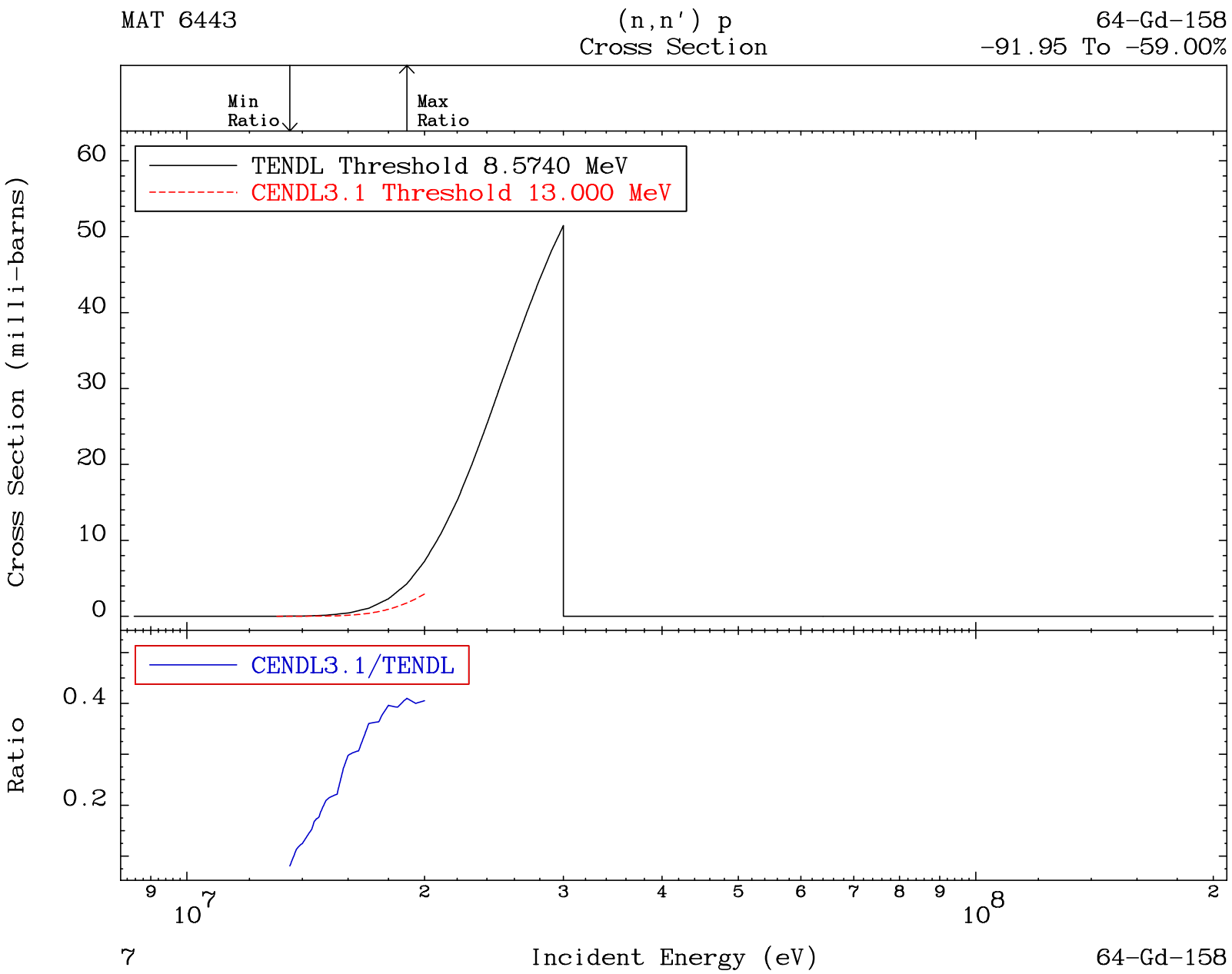

MAT 6443
Elastic
Cross Section
64-Gd-158
-99.15 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
2
64-Gd-158

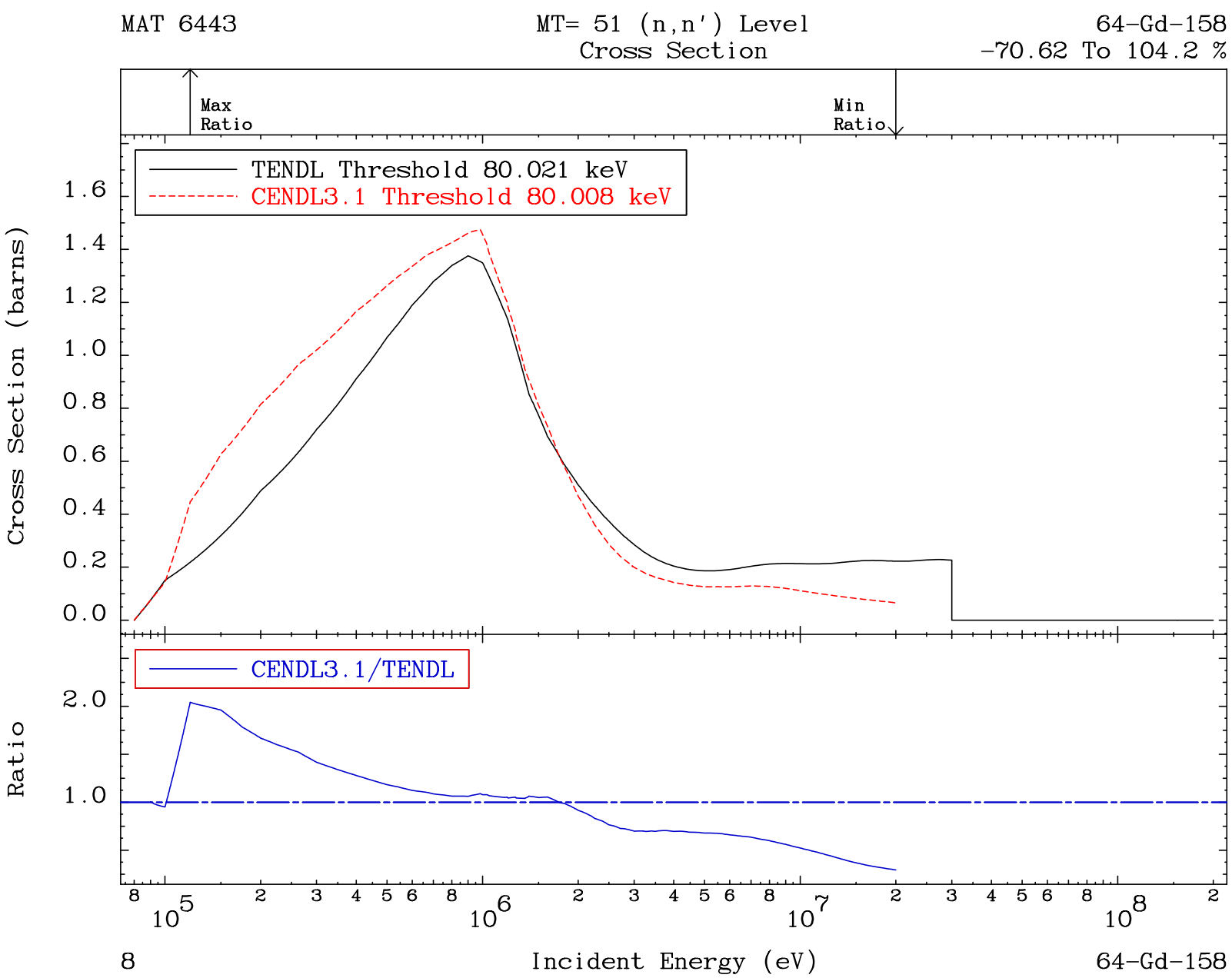

MAT 6443
Inelastic
Cross Section
64-Gd-158
-31.41 To 104.2 %
Max
Ratio
Min
Ratio
TENDL Threshold 80.021 keV
CENDL3.1 Threshold 80.008 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
2.4
1.8
1.2
0.6
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
64-Gd-158

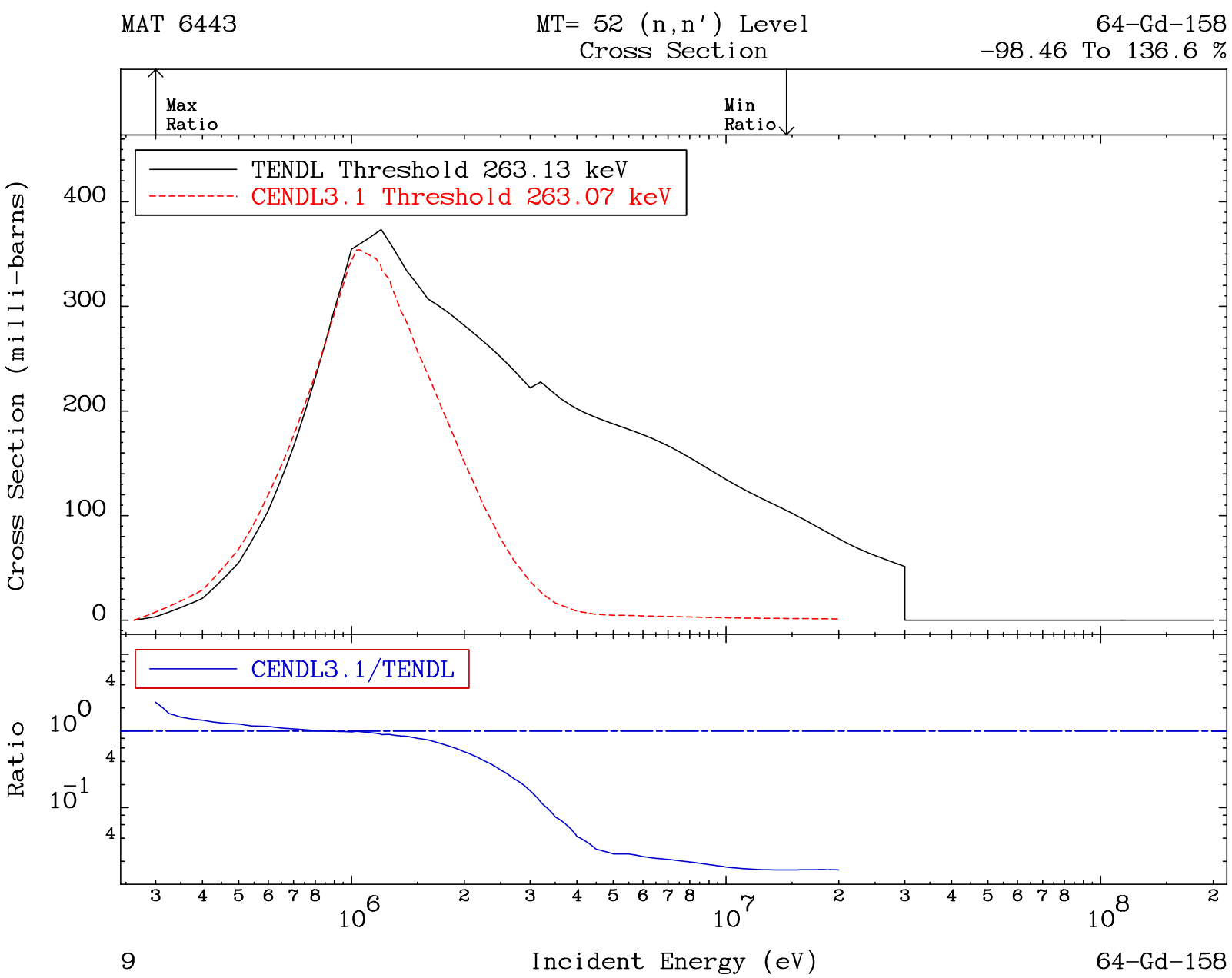

MAT 6443
(n,2n)
Cross Section
64-Gd-158
-99.41 To -3.716%
Min Ratio
Max Ratio
TENDL Threshold 7.9881 MeV
CENDL3.1 Threshold 7.9881 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
10^0
10^-1
10^-2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
64-Gd-158

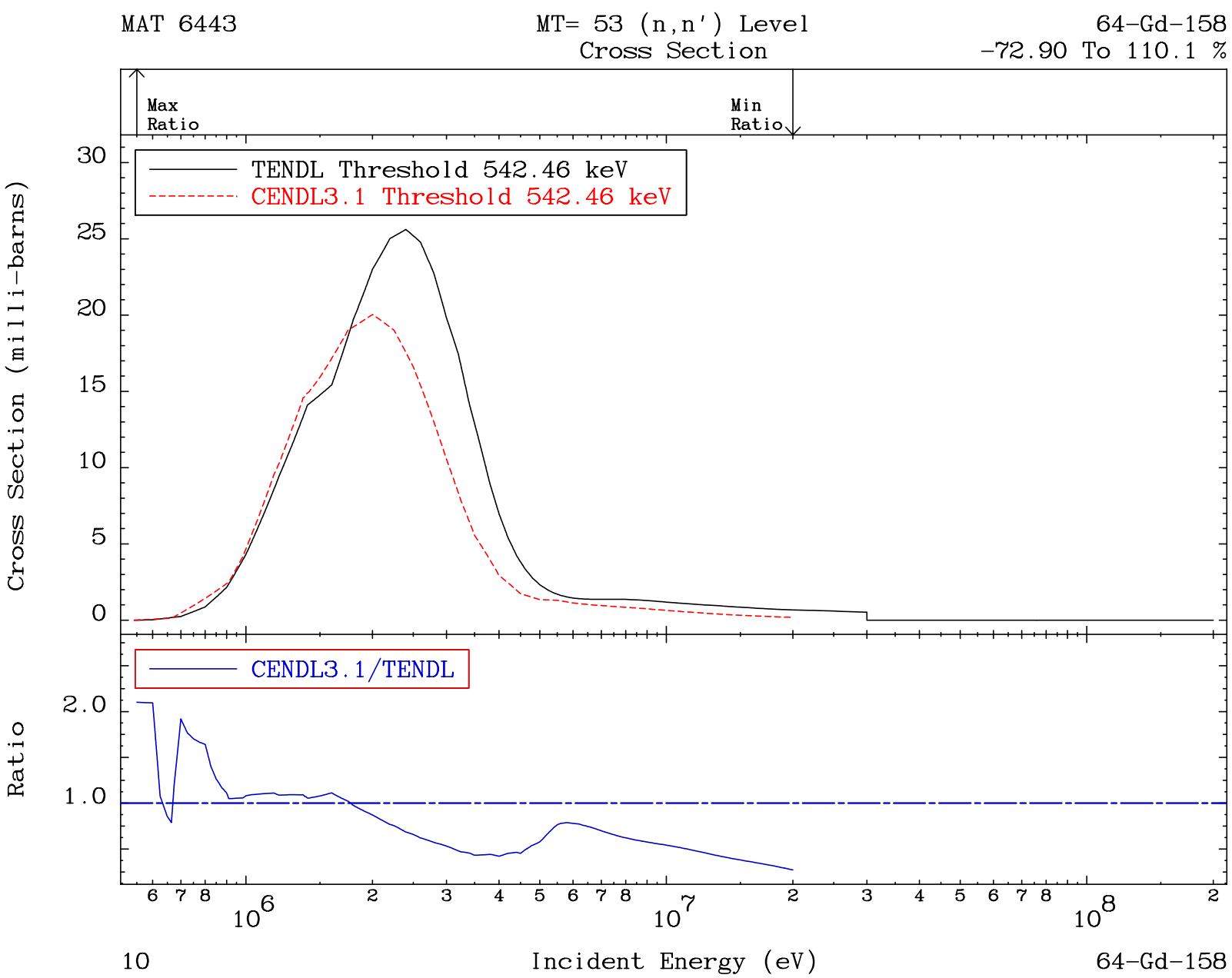

MAT 6443
(n,3n)
Cross Section
64-Gd-158
-99.66 To 20.44 %
Min Ratio
Max Ratio
TENDL Threshold 14.389 MeV
CENDL3.1 Threshold 14.389 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
CENDL3.1/TENDL
Ratio
10^0
10^-1
10^-2
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
64-Gd-158

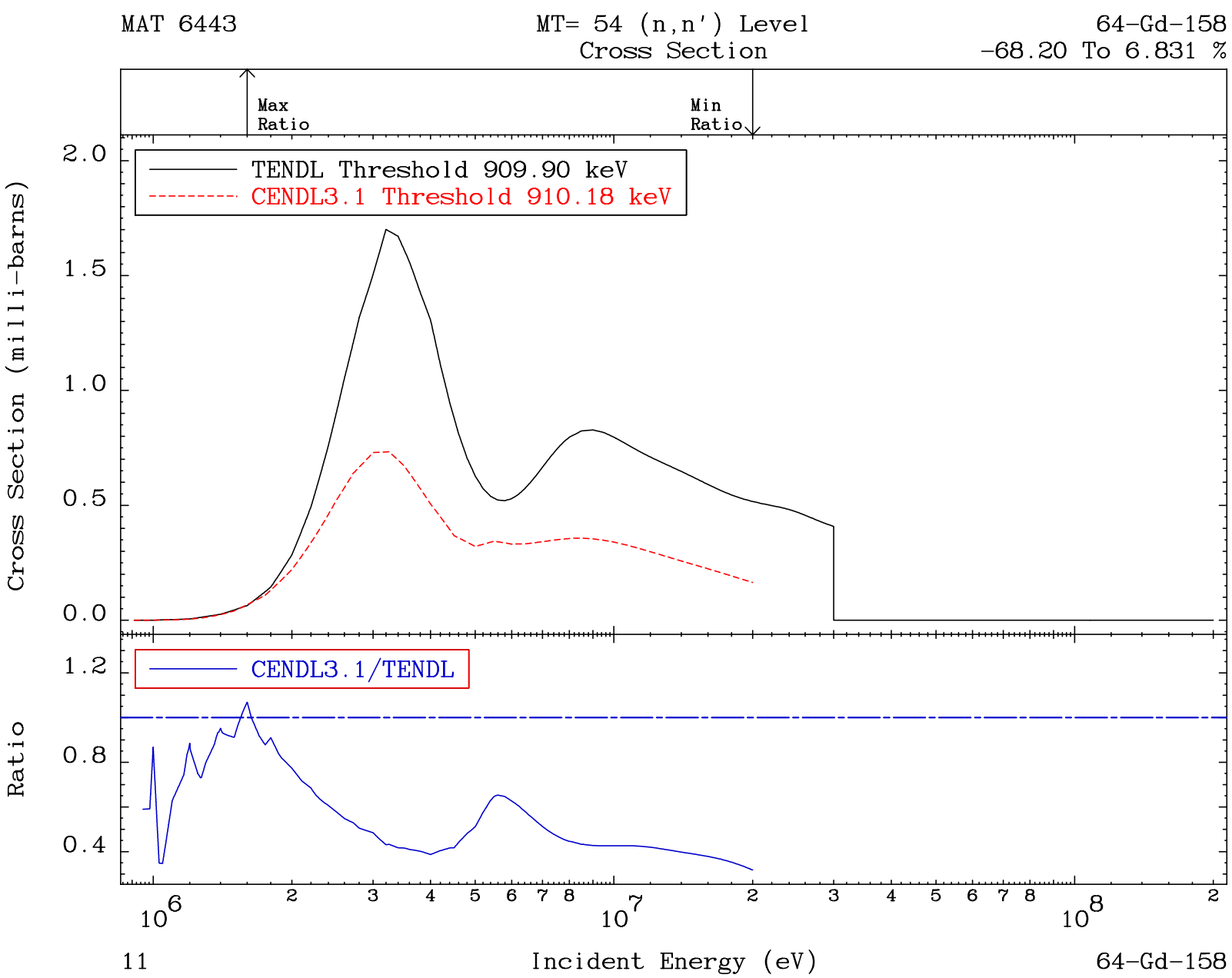

MAT 6443
(n,n') α
Cross Section
64-Gd-158
-24.89 To 38.31 %
Max Ratio
Min Ratio
TENDL Threshold 663.49 keV
CENDL3.1 Threshold 11.000 MeV
Cross Section (milli-barns)
20
15
10
5
0
CENDL3.1/TENDL
Ratio
1.4
1.2
1.0
0.8
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
6
Incident Energy (eV)
64-Gd-158

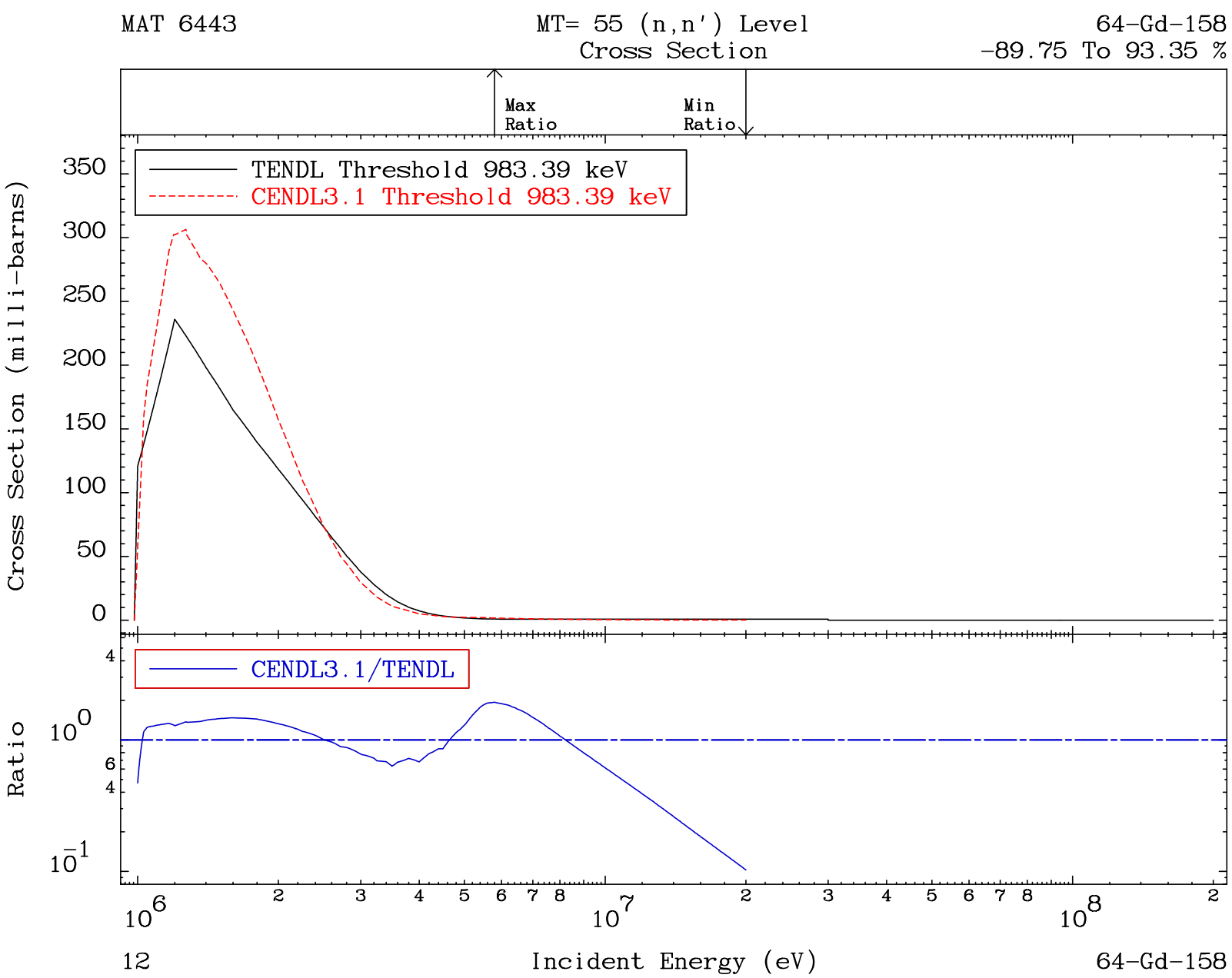

MAT 6443
(n,n') p
Cross Section
64-Gd-158
-91.95 To -59.00%
Min Ratio
Max Ratio
TENDL Threshold 8.5740 MeV
CENDL3.1 Threshold 13.000 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
CENDL3.1/TENDL
Ratio
0.4
0.2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
64-Gd-158

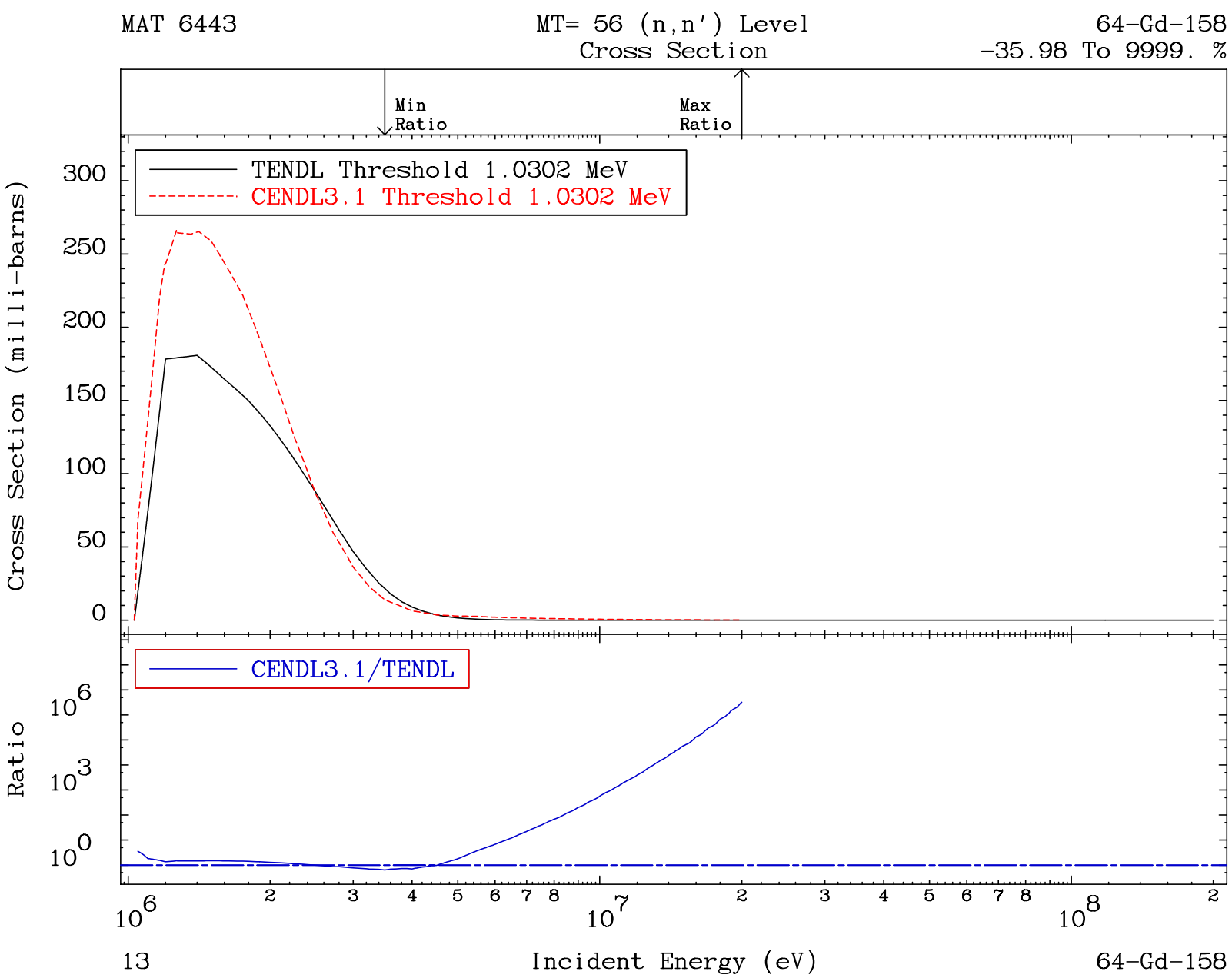

MAT 6443
MT= 51 (n,n') Level
Cross Section
64-Gd-158
-70.62 To 104.2 %
Max
Ratio
Min
Ratio
TENDL Threshold 80.021 keV
CENDL3.1 Threshold 80.008 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
CENDL3.1/TENDL
Ratio
2.0
1.0
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
Incident Energy (eV)
8
64-Gd-158

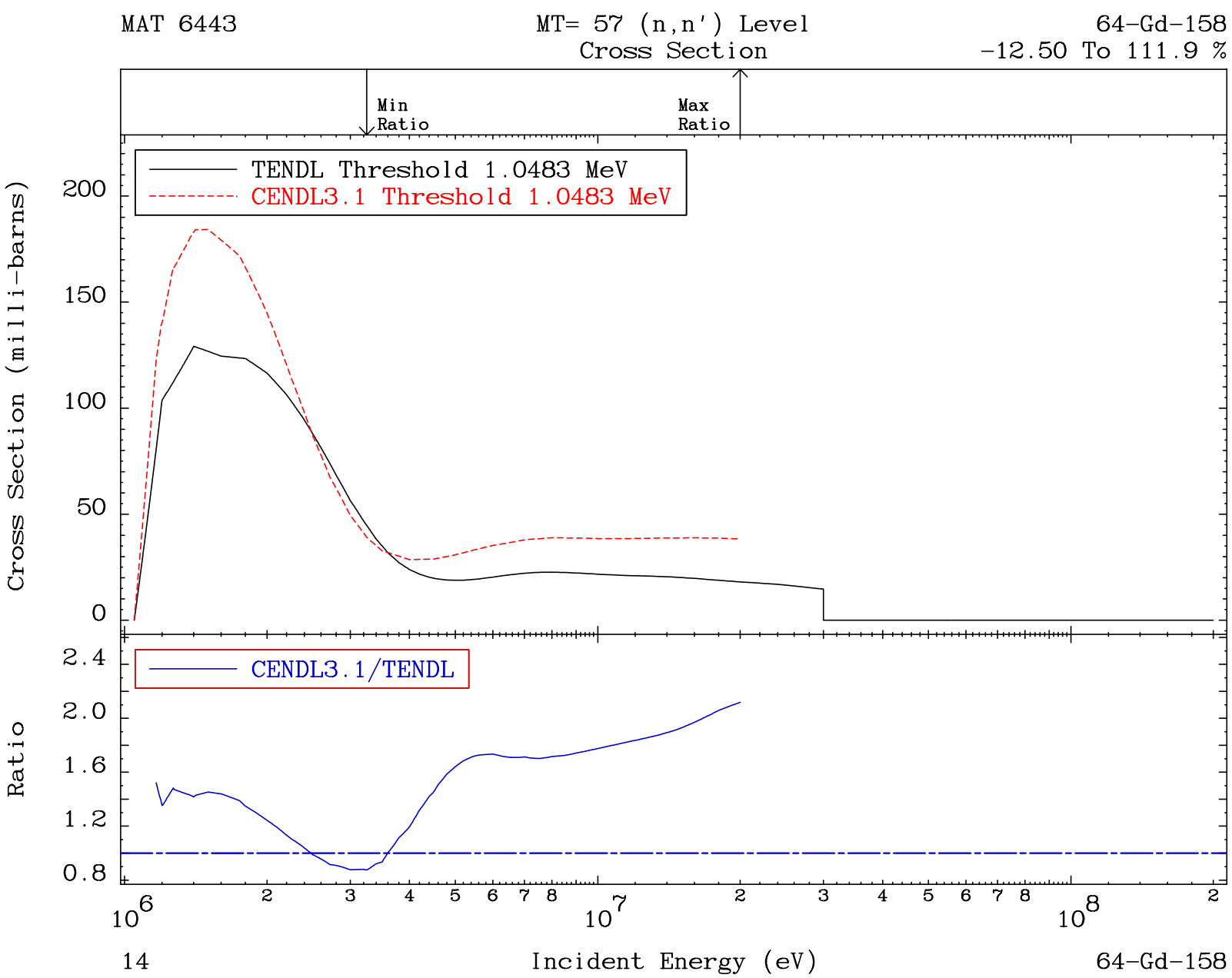

MAT 6443
MT= 52 (n,n') Level
Cross Section
64-Gd-158
-98.46 To 136.6 %
Max
Ratio
Min
Ratio
TENDL Threshold 263.13 keV
CENDL3.1 Threshold 263.07 keV
Cross Section (milli-barns)
400
300
200
100
0
CENDL3.1/TENDL
Ratio
10^{0}
10^{-1}
10^{6}
10^{7}
10^{8}
Incident Energy (eV)
9
64-Gd-158

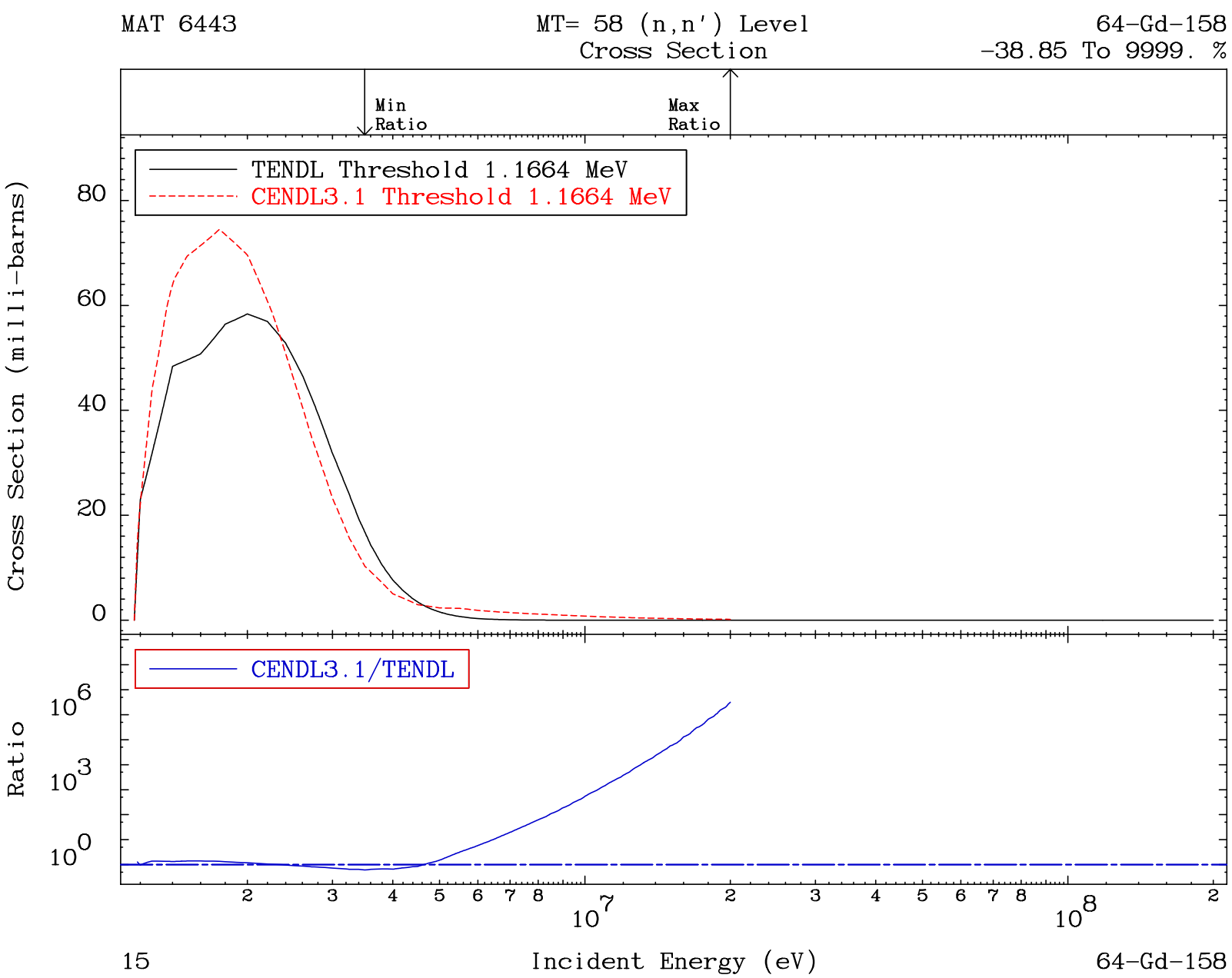

MAT 6443
MT= 53 (n,n') Level
Cross Section
64-Gd-158
-72.90 To 110.1 %
Max
Ratio
Min
Ratio
TENDL Threshold 542.46 keV
CENDL3.1 Threshold 542.46 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
CENDL3.1/TENDL
Ratio
2.0
1.0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
64-Gd-158

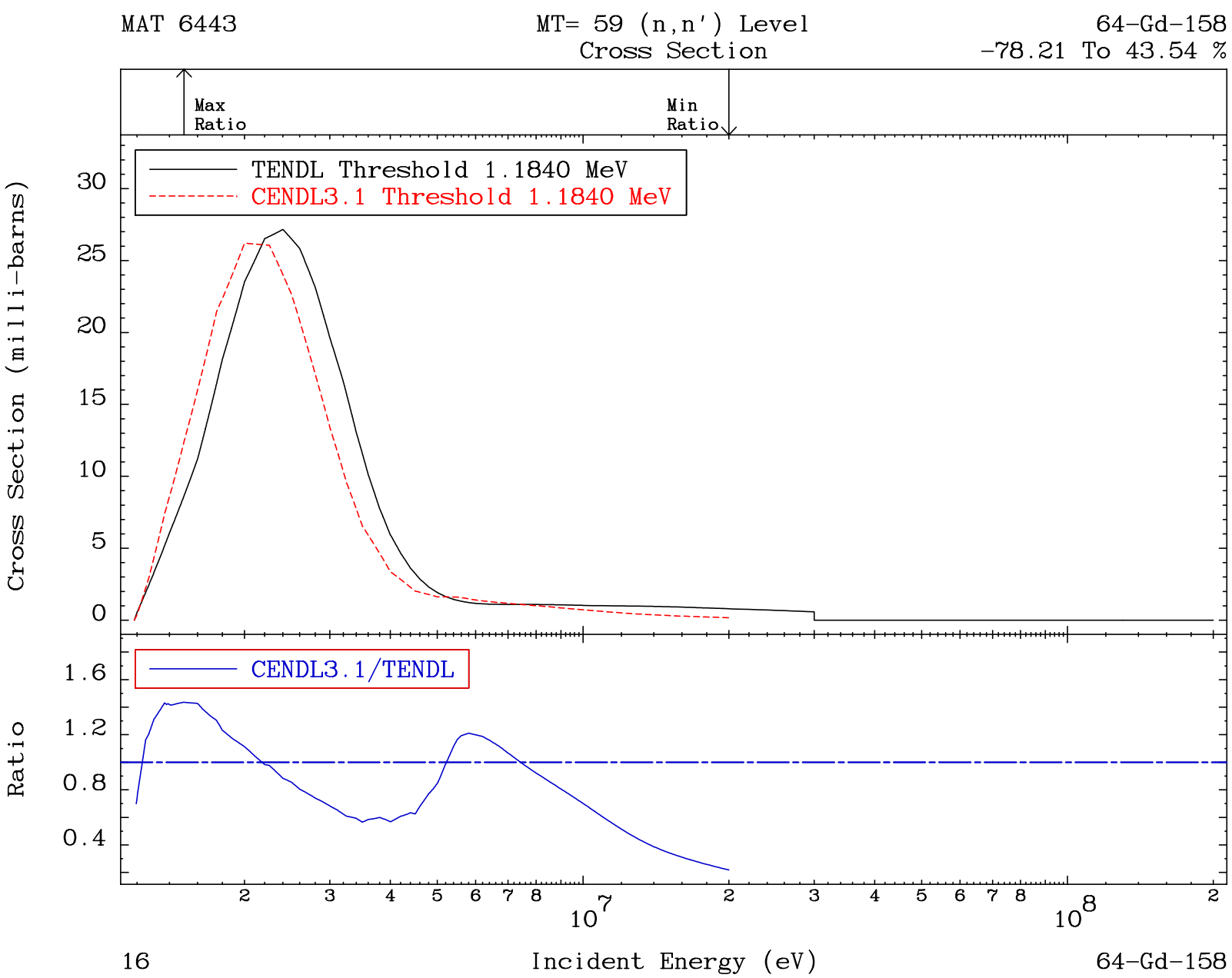

MAT 6443
MT= 54 (n,n') Level
Cross Section
64-Gd-158
-68.20 To 6.831 %
Max
Ratio
Min
Ratio
TENDL Threshold 909.90 keV
CENDL3.1 Threshold 910.18 keV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
1.2
0.8
0.4
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
11
Incident Energy (eV)
64-Gd-158

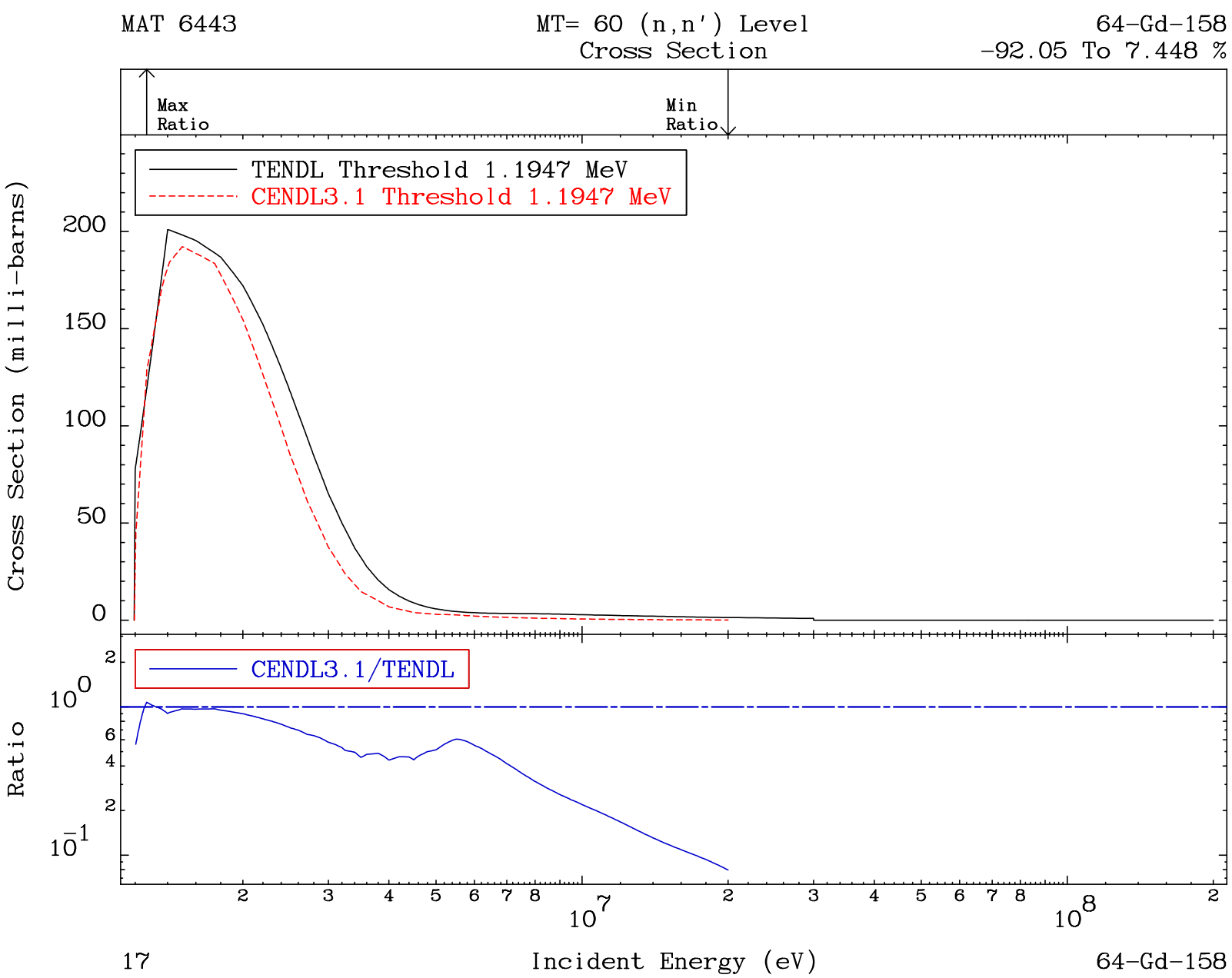

MAT 6443
MT= 55 (n,n') Level
Cross Section
64-Gd-158
-89.75 To 93.35 %
Max
Ratio
Min
Ratio
TENDL Threshold 983.39 keV
CENDL3.1 Threshold 983.39 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
CENDL3.1/TENDL
Ratio
4
10^0
6
4
10^{-1}
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
64-Gd-158

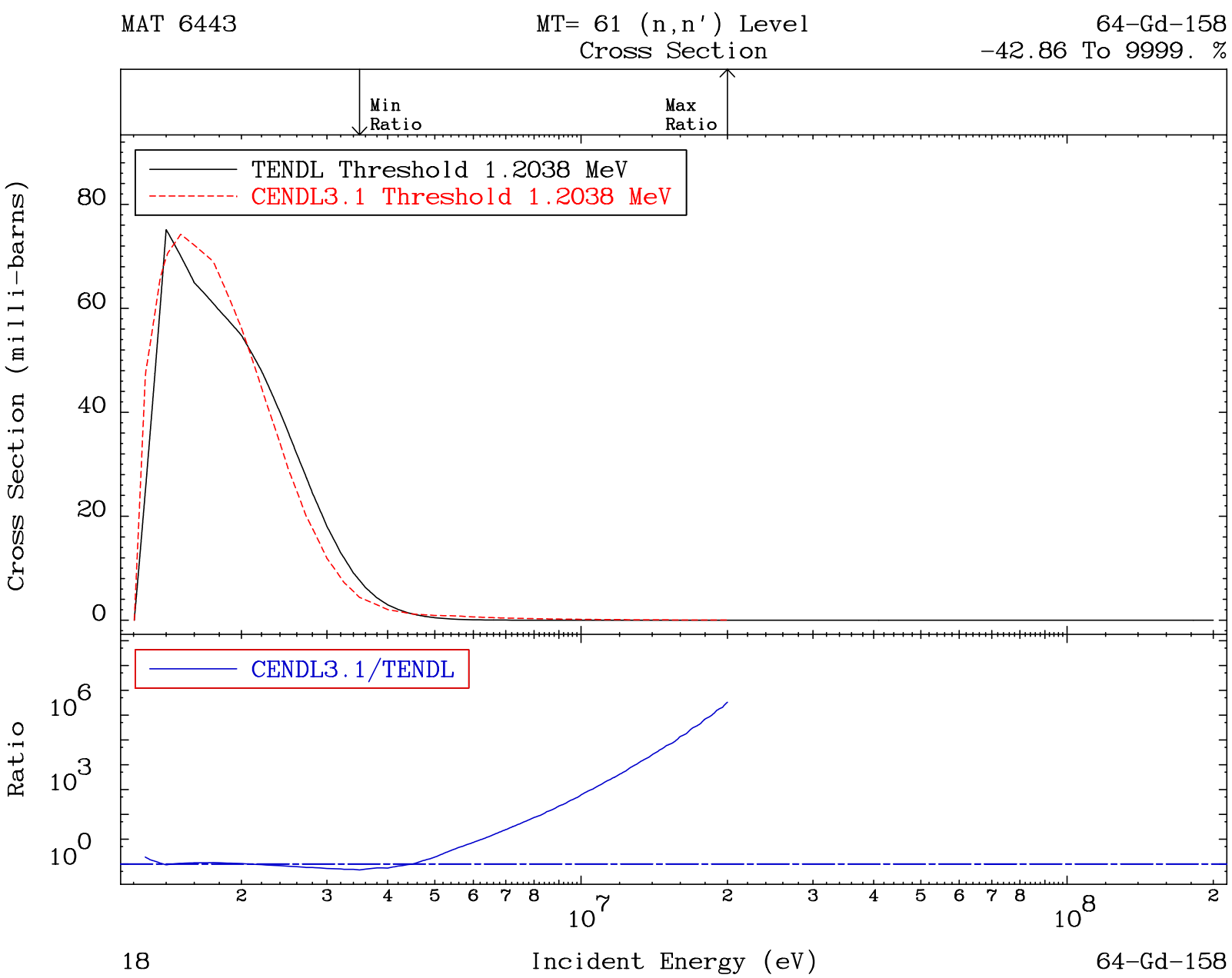

MAT 6443
MT= 56 (n,n') Level
Cross Section
64-Gd-158
-35.98 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0302 MeV
CENDL3.1 Threshold 1.0302 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
CENDL3.1/TENDL
Ratio
10^6
10^3
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
64-Gd-158

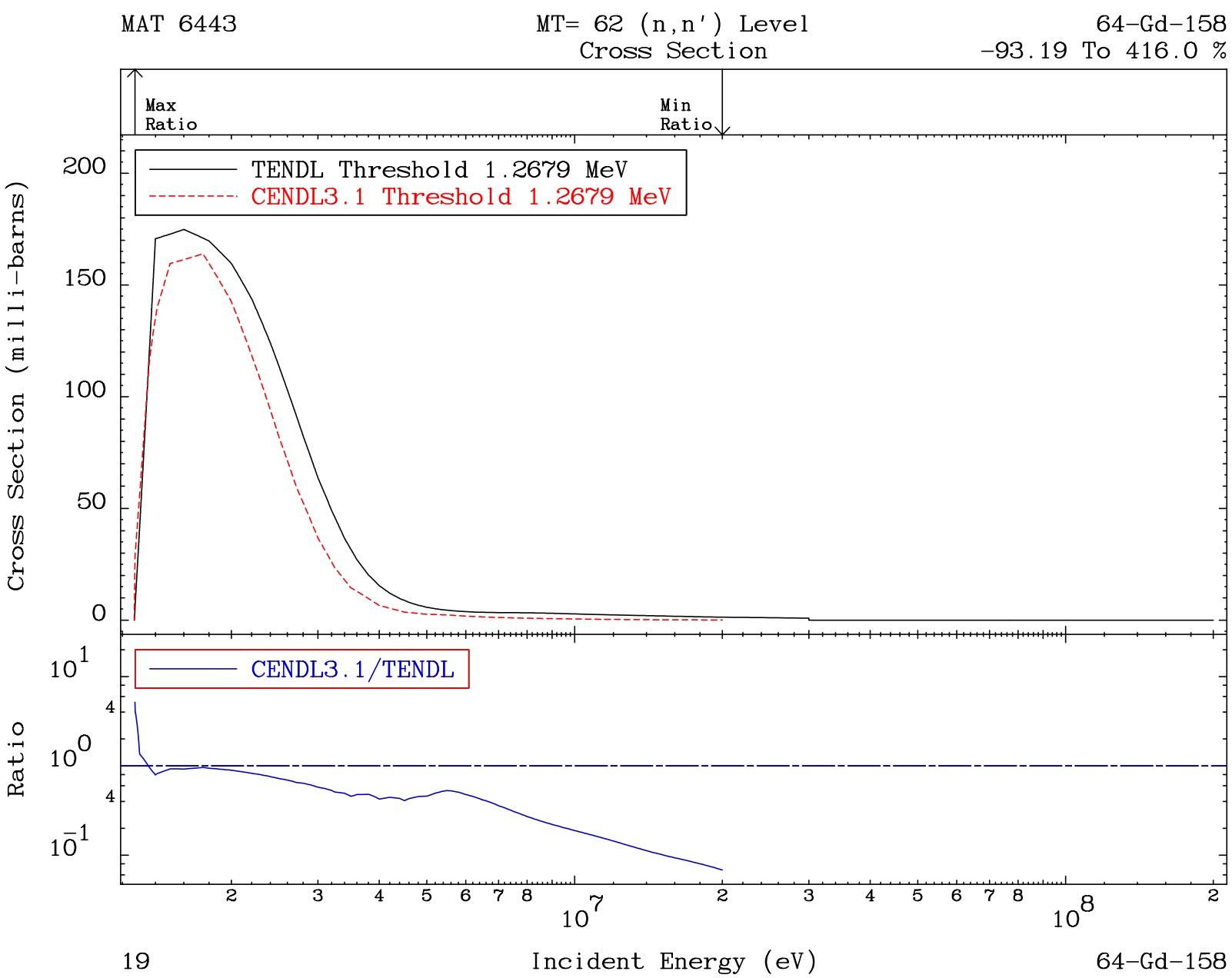

MAT 6443
MT= 57 (n,n') Level
Cross Section
64-Gd-158
-12.50 To 111.9 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0483 MeV
CENDL3.1 Threshold 1.0483 MeV
Cross Section (milli-barns)
200
150
100
50
0
CENDL3.1/TENDL
Ratio
2.4
2.0
1.6
1.2
0.8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
64-Gd-158

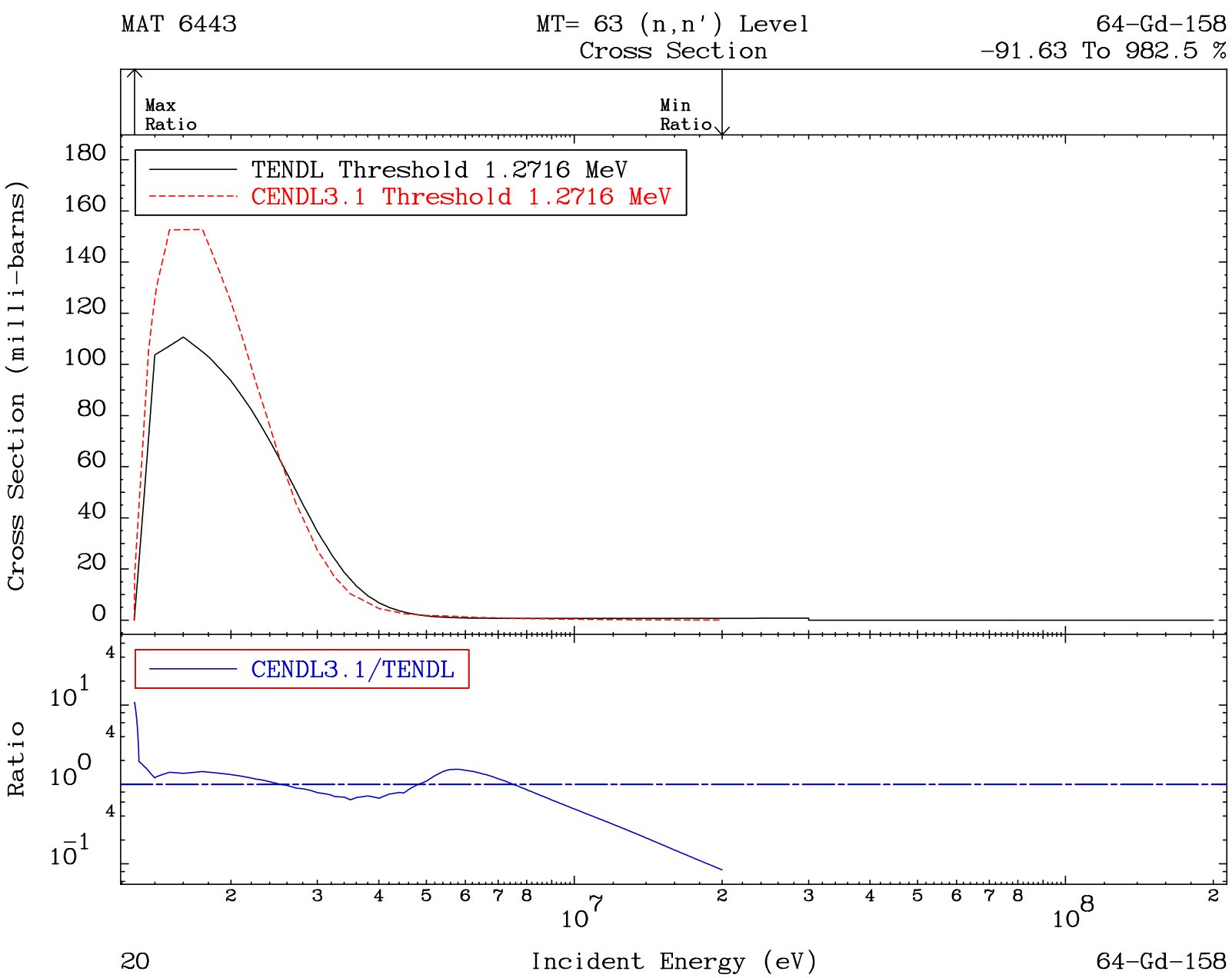

MAT 6443
MT= 58 (n,n') Level
Cross Section
64-Gd-158
-38.85 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1664 MeV
CENDL3.1 Threshold 1.1664 MeV
Cross Section (milli-barns)
80
60
40
20
0
CENDL3.1/TENDL
Ratio
10^6
10^3
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
64-Gd-158

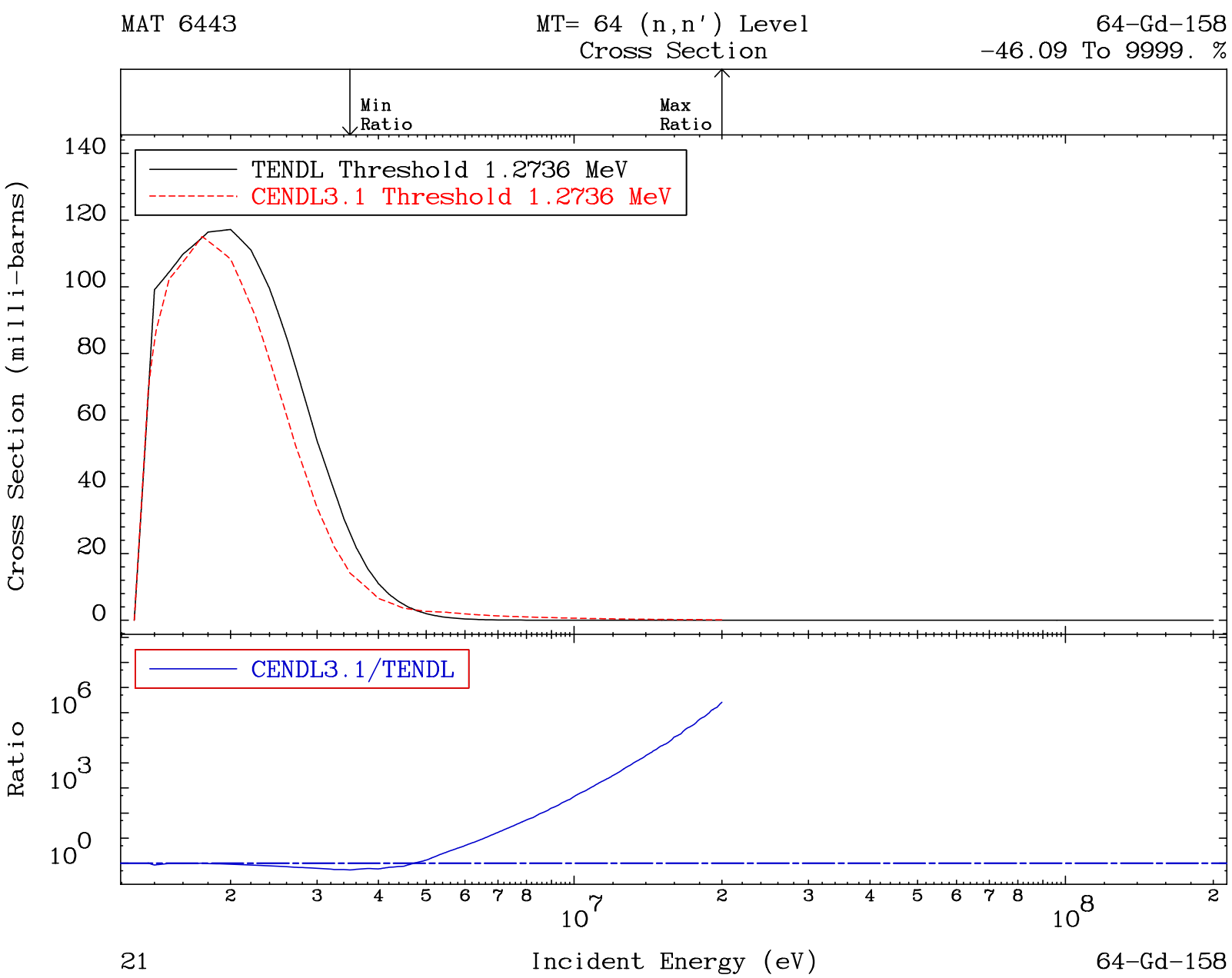

MAT 6443
MT= 59 (n,n') Level
Cross Section
64-Gd-158
-78.21 To 43.54 %
Max Ratio
Min Ratio
TENDL Threshold 1.1840 MeV
CENDL3.1 Threshold 1.1840 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
CENDL3.1/TENDL
Ratio
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
64-Gd-158

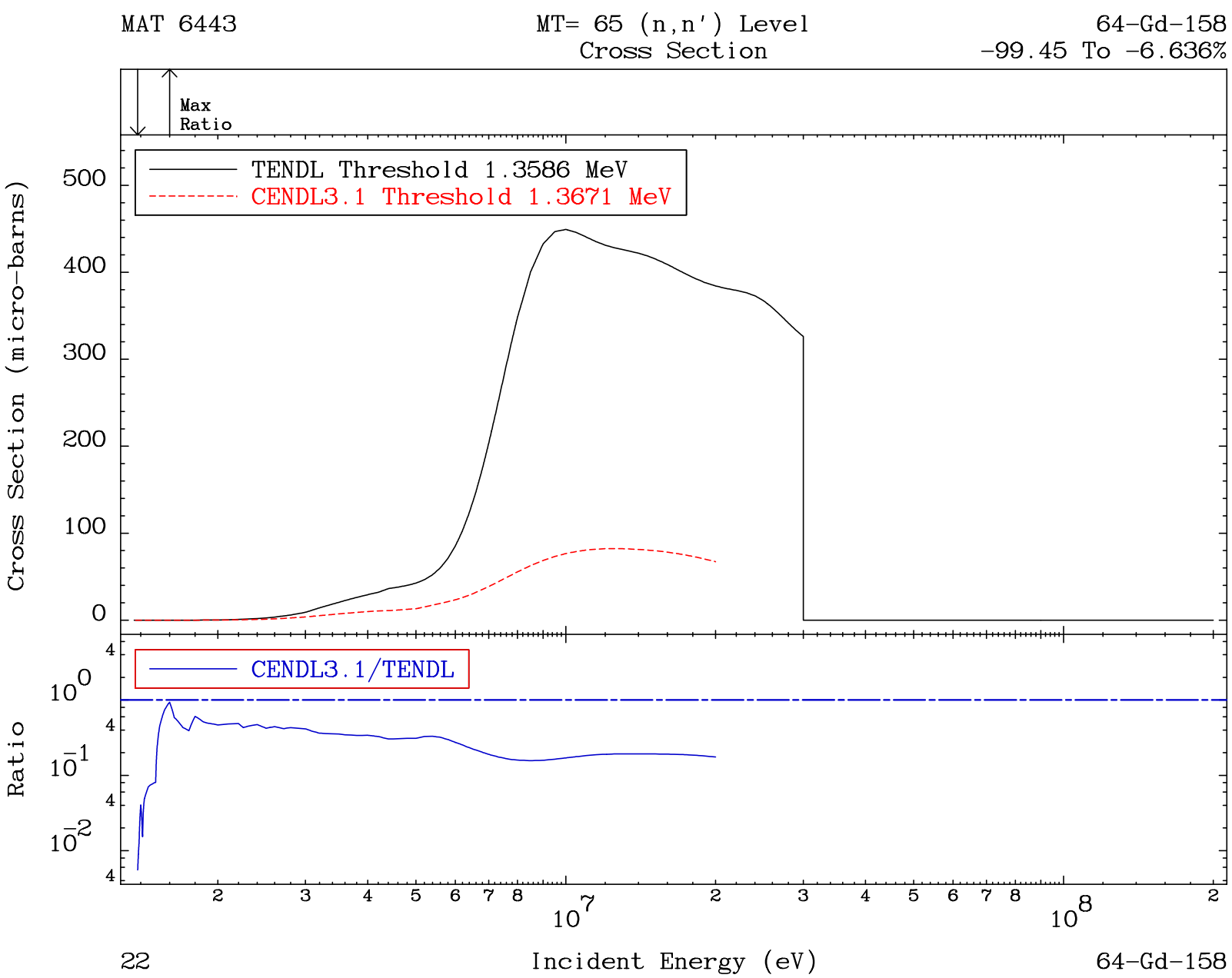

MAT 6443
MT= 60 (n,n') Level
Cross Section
64-Gd-158
-92.05 To 7.448 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.1947 MeV
CENDL3.1 Threshold 1.1947 MeV
Cross Section (milli-barns)
200
150
100
50
0
CENDL3.1/TENDL
Ratio
2
10^0
6
4
2
10^-1
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
64-Gd-158

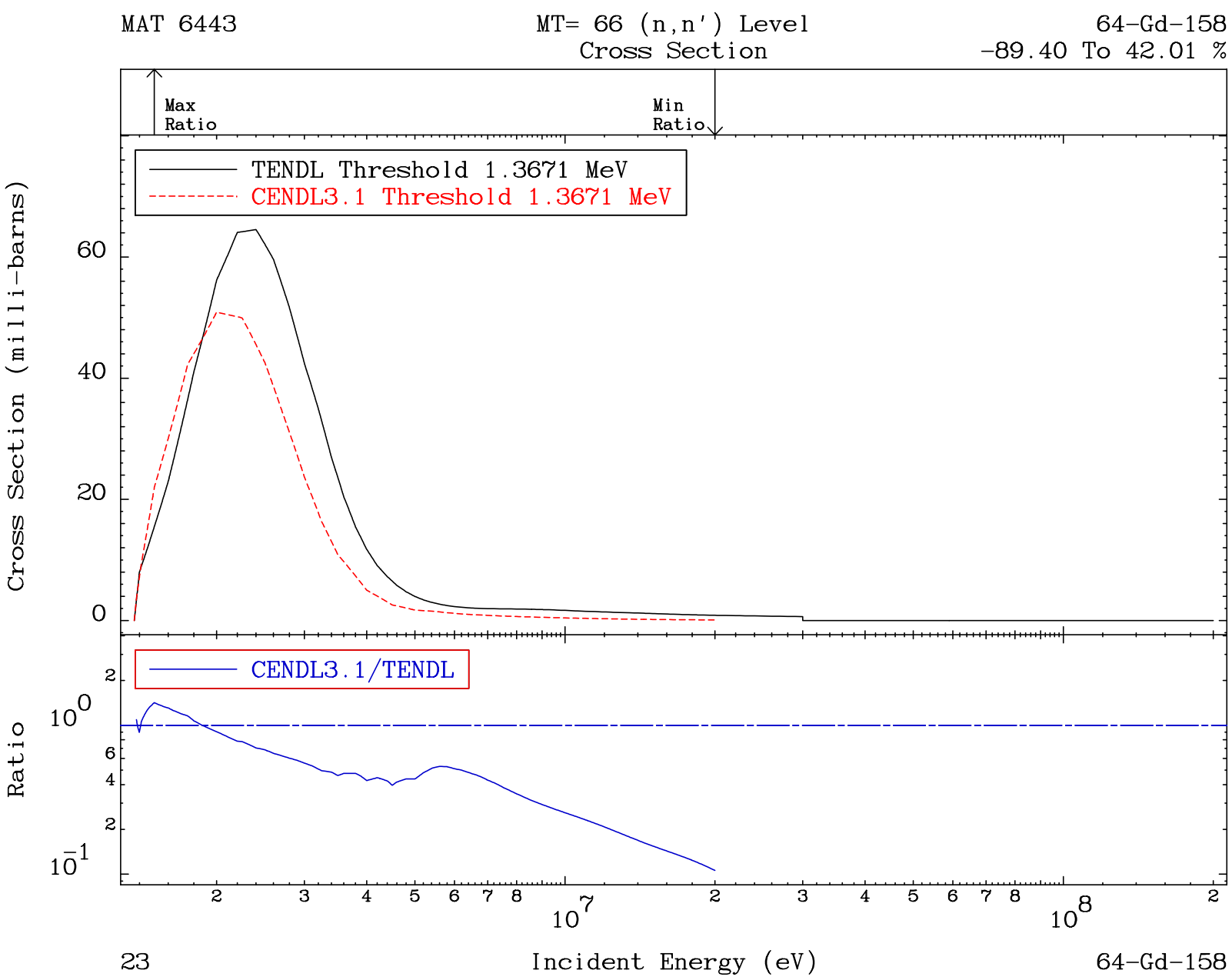

MAT 6443
MT= 61 (n,n') Level
Cross Section
64-Gd-158
-42.86 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2038 MeV
CENDL3.1 Threshold 1.2038 MeV
Cross Section (milli-barns)
80
60
40
20
0
CENDL3.1/TENDL
Ratio
10^6
10^3
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
64-Gd-158

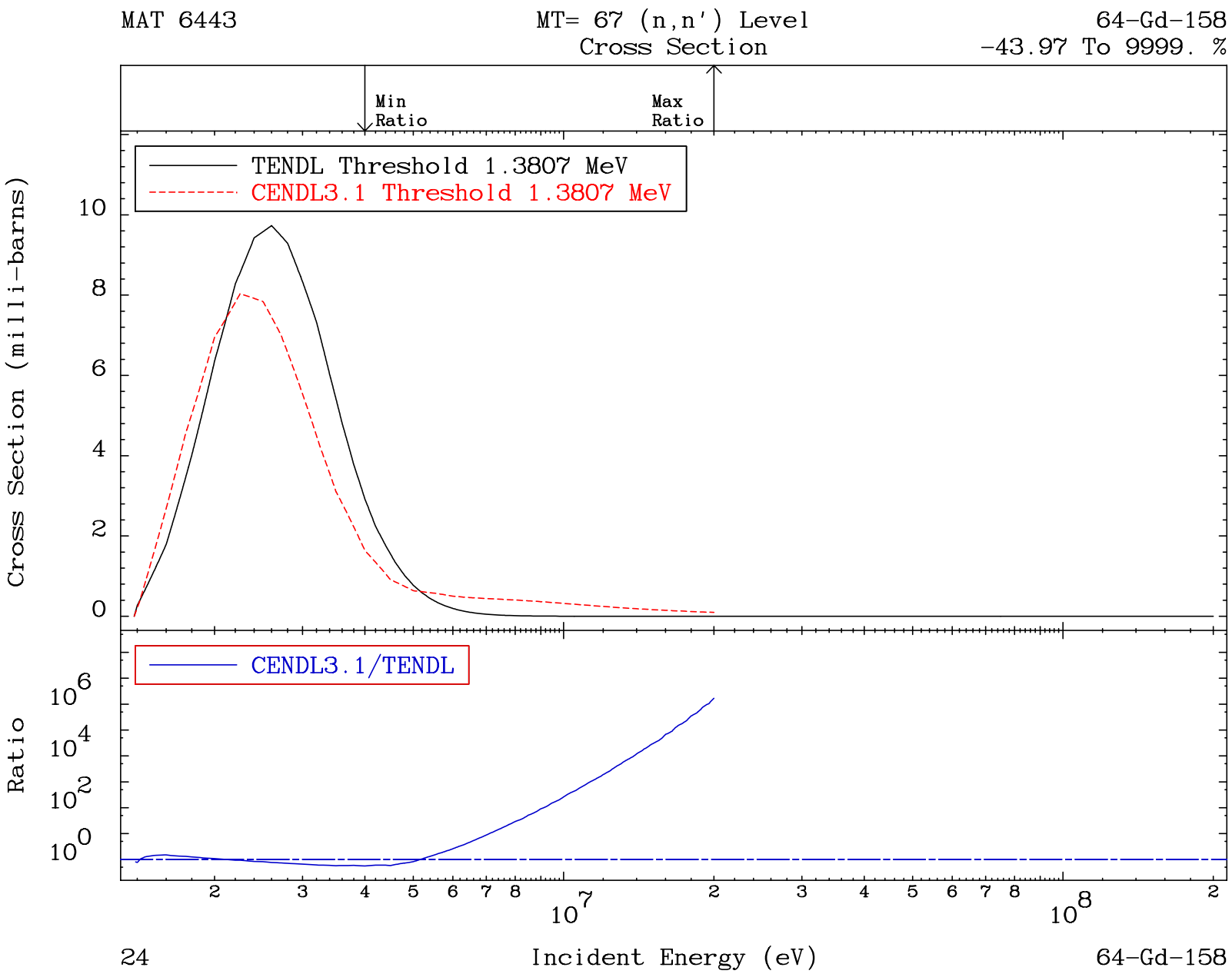

MAT 6443
MT= 62 (n,n') Level
Cross Section
64-Gd-158
-93.19 To 416.0 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.2679 MeV
CENDL3.1 Threshold 1.2679 MeV
Cross Section (milli-barns)
200
150
100
50
0
CENDL3.1/TENDL
Ratio
10^1
10^0
10^-1
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
64-Gd-158

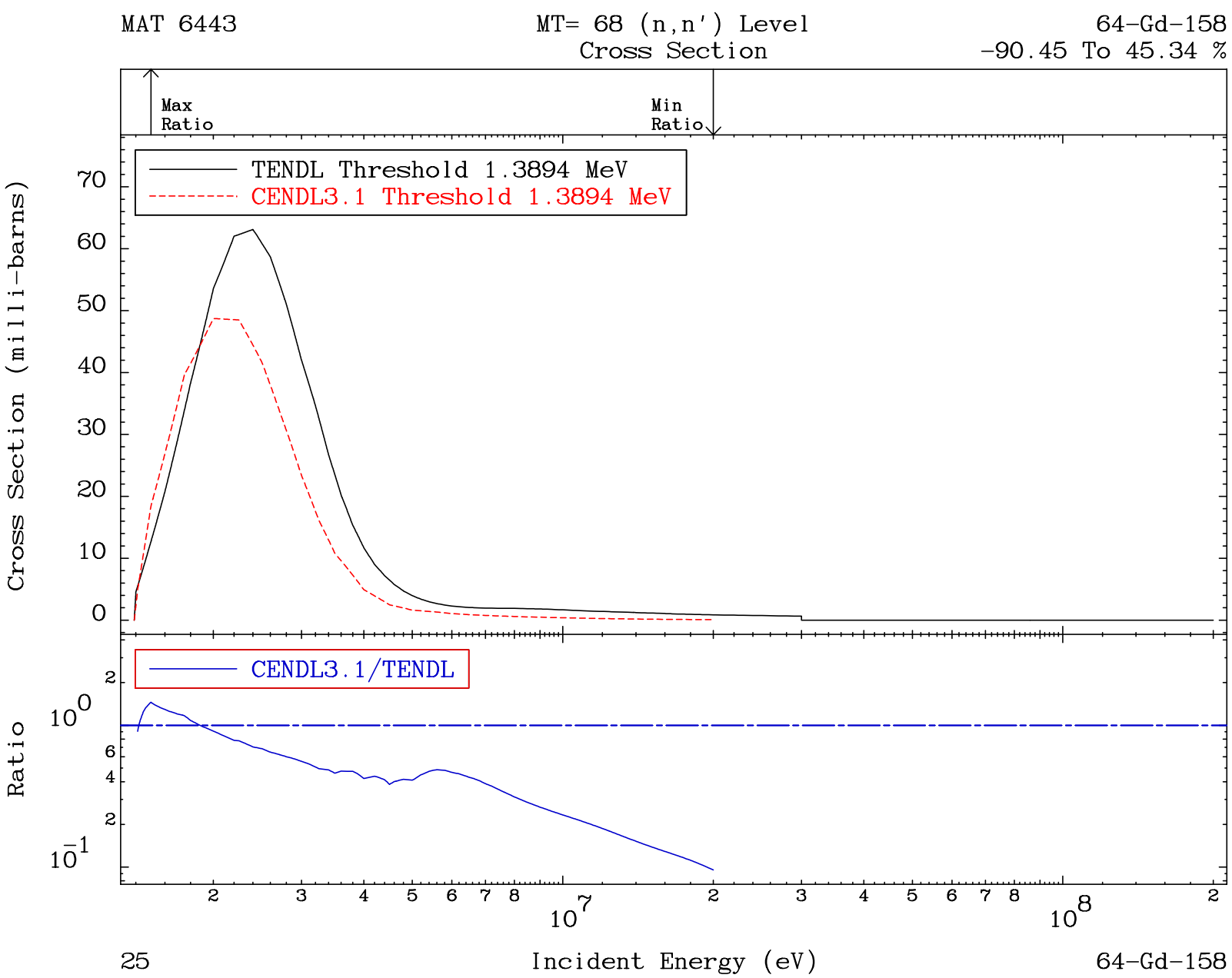

MAT 6443
MT= 63 (n,n') Level
Cross Section
64-Gd-158
-91.63 To 982.5 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.2716 MeV
CENDL3.1 Threshold 1.2716 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
CENDL3.1/TENDL
Ratio
4
10^1
4
10^0
4
10^-1
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
64-Gd-158

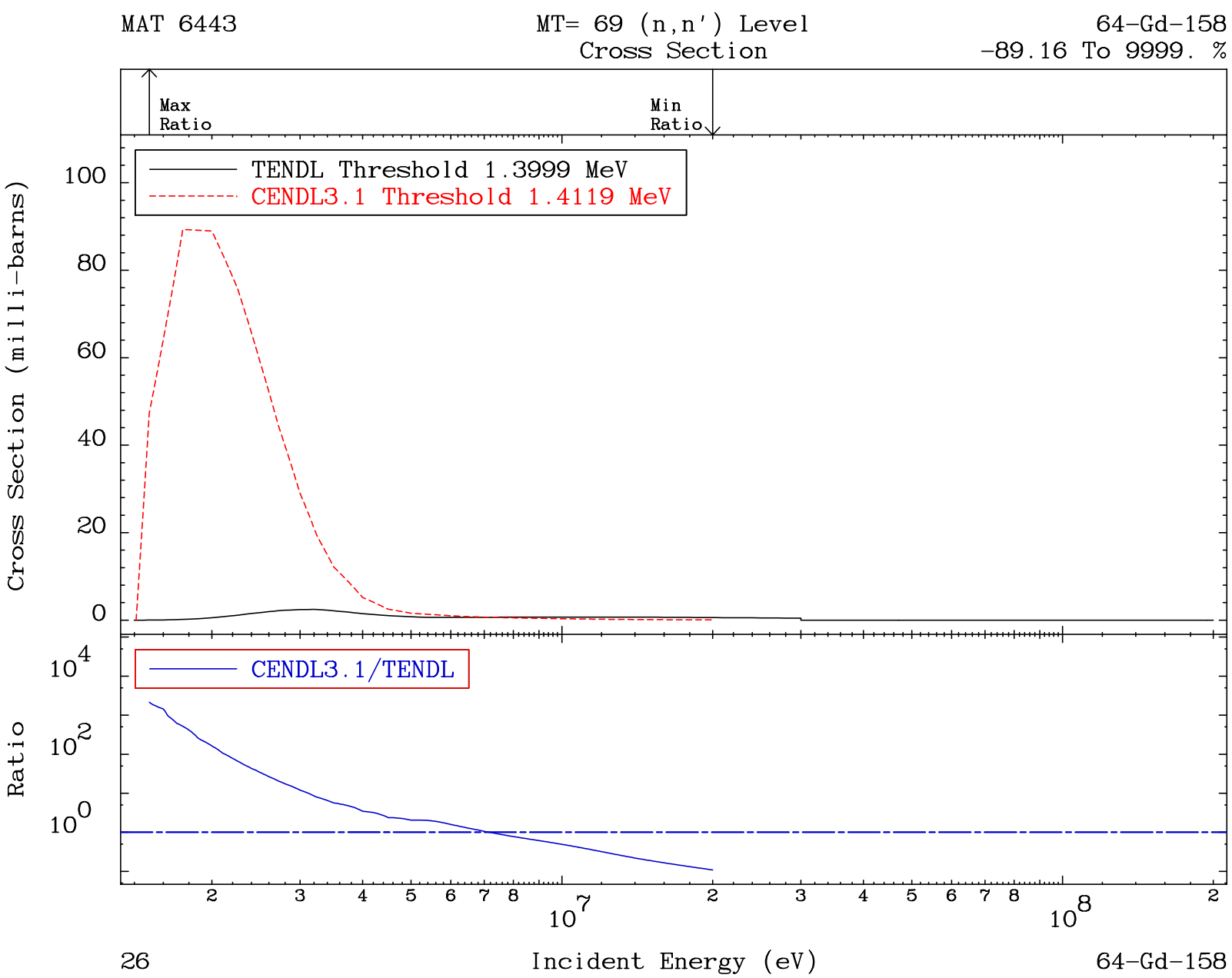

MAT 6443
MT= 64 (n,n') Level
Cross Section
64-Gd-158
-46.09 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2736 MeV
CENDL3.1 Threshold 1.2736 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
CENDL3.1/TENDL
Ratio
10^6
10^3
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
64-Gd-158

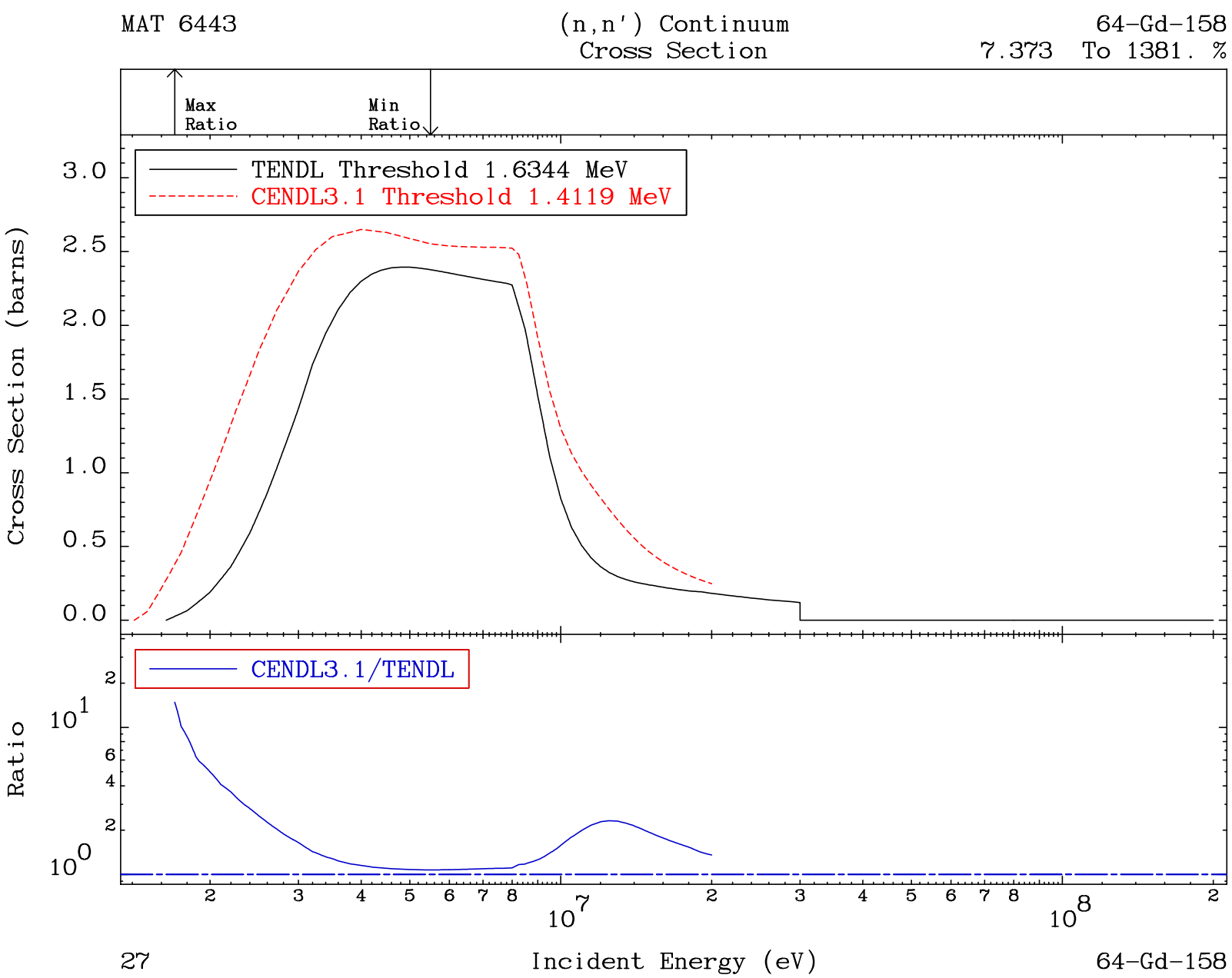

MAT 6443
MT= 65 (n,n') Level
Cross Section
64-Gd-158
-99.45 To -6.636%
Max
Ratio
TENDL Threshold 1.3586 MeV
CENDL3.1 Threshold 1.3671 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
CENDL3.1/TENDL
Ratio
10^0
10^-1
10^-2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
64-Gd-158

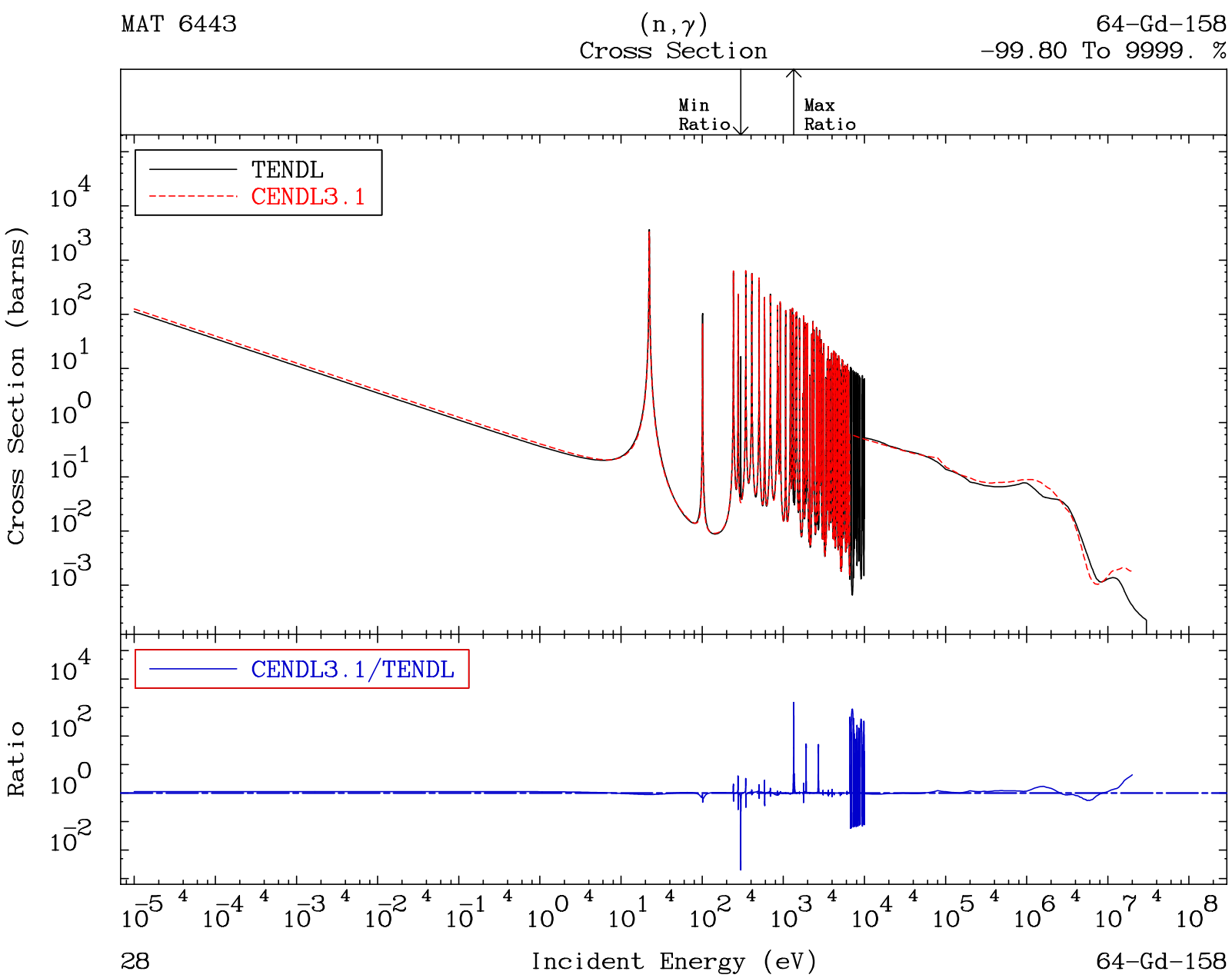

MAT 6443
MT= 66 (n,n') Level
Cross Section
64-Gd-158
-89.40 To 42.01 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.3671 MeV
CENDL3.1 Threshold 1.3671 MeV
Cross Section (milli-barns)
60
40
20
0
CENDL3.1/TENDL
Ratio
2
10^0
6
4
2
10^-1
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
64-Gd-158

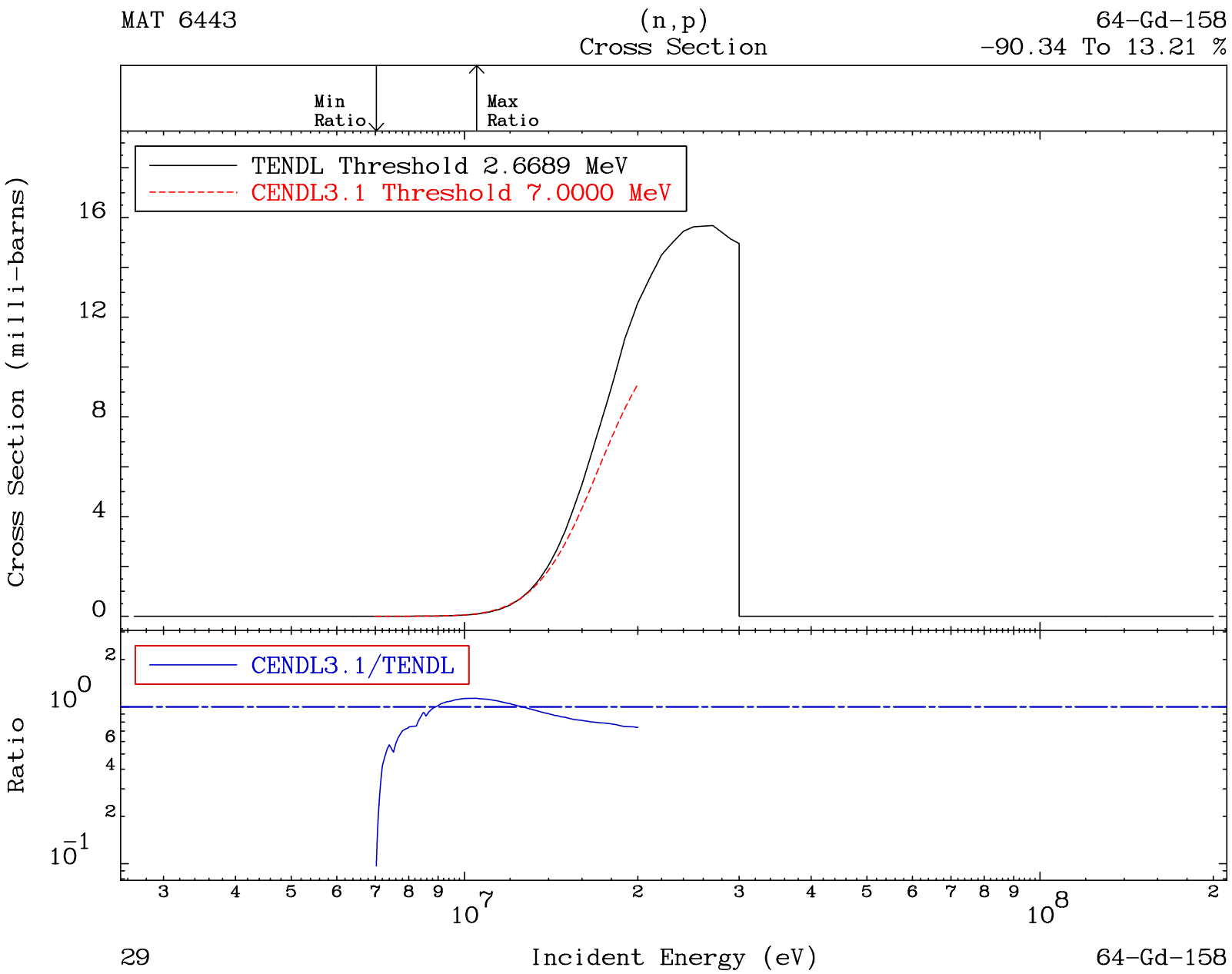

MAT 6443
MT= 67 (n,n') Level
Cross Section
64-Gd-158
-43.97 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.3807 MeV
CENDL3.1 Threshold 1.3807 MeV
Cross Section (milli-barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
24
64-Gd-158

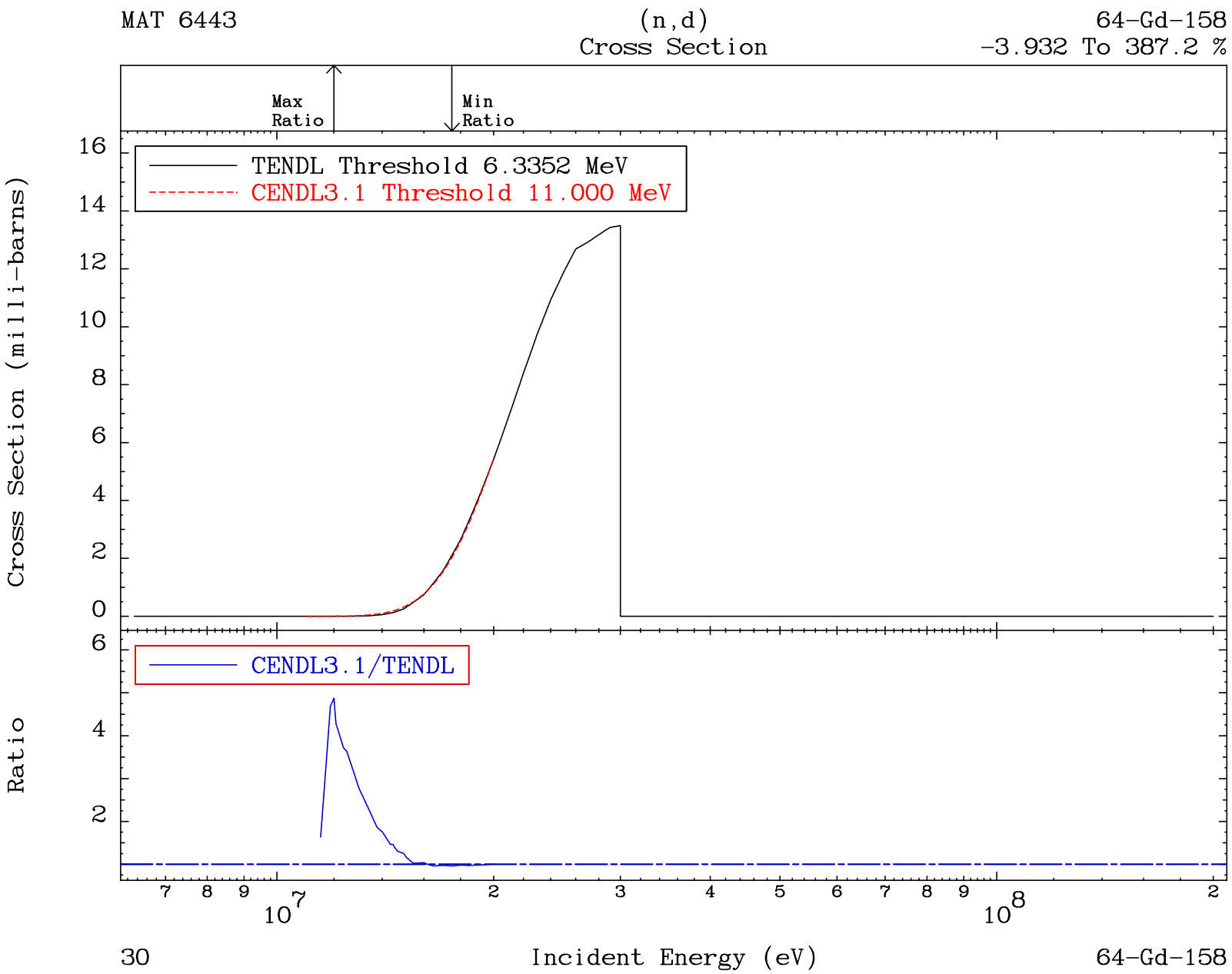

MAT 6443
MT= 68 (n,n') Level
Cross Section
64-Gd-158
-90.45 To 45.34 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.3894 MeV
CENDL3.1 Threshold 1.3894 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
CENDL3.1/TENDL
Ratio
10^{0}
10^{-1}
2
6
4
2
2 3 4 5 6 7 8
10^{7}
2 3 4 5 6 7 8
10^{8}
2
25
Incident Energy (eV)
64-Gd-158

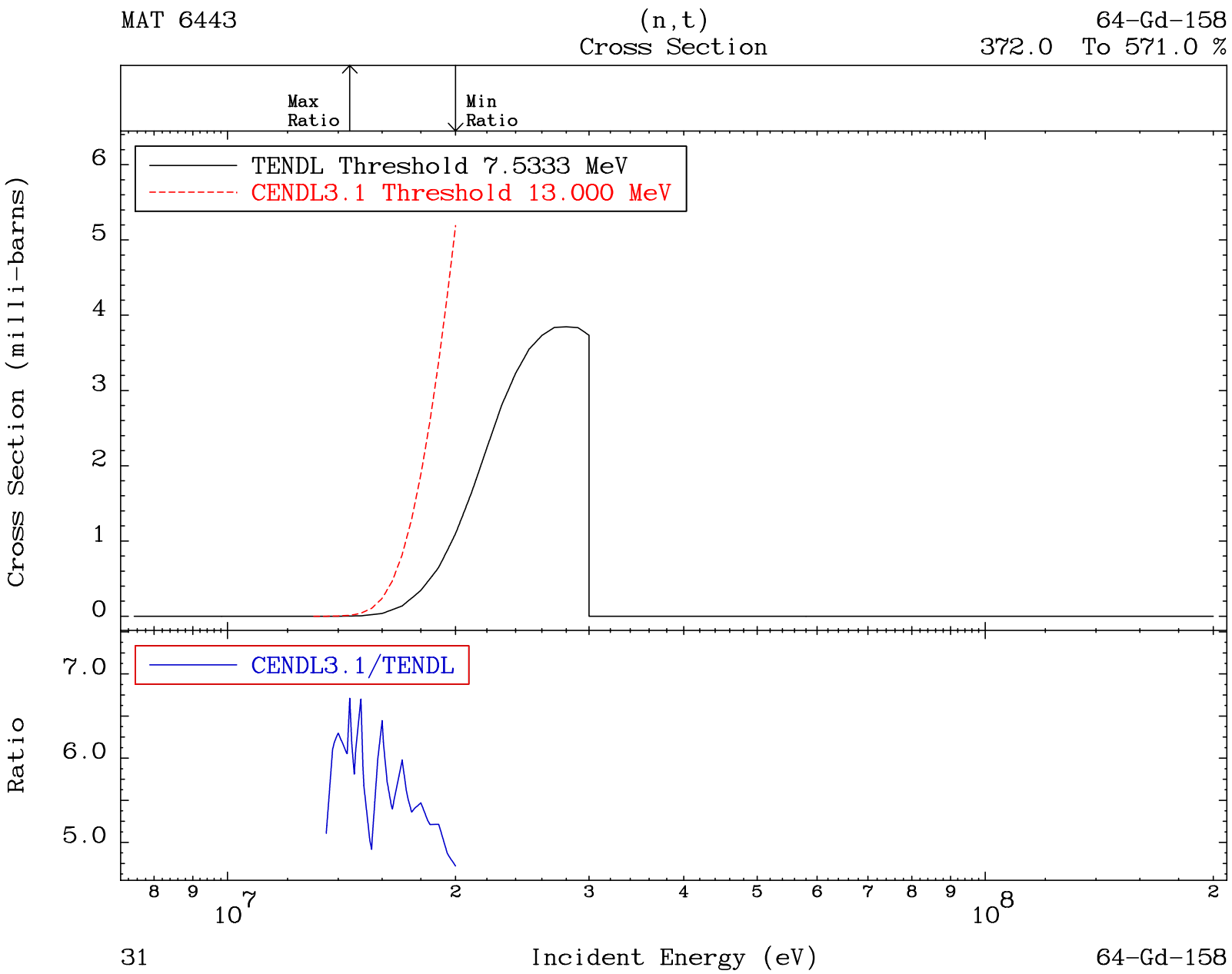

MAT 6443
MT= 69 (n,n') Level
Cross Section
64-Gd-158
-89.16 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 1.3999 MeV
CENDL3.1 Threshold 1.4119 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
CENDL3.1/TENDL
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
26
Incident Energy (eV)
64-Gd-158

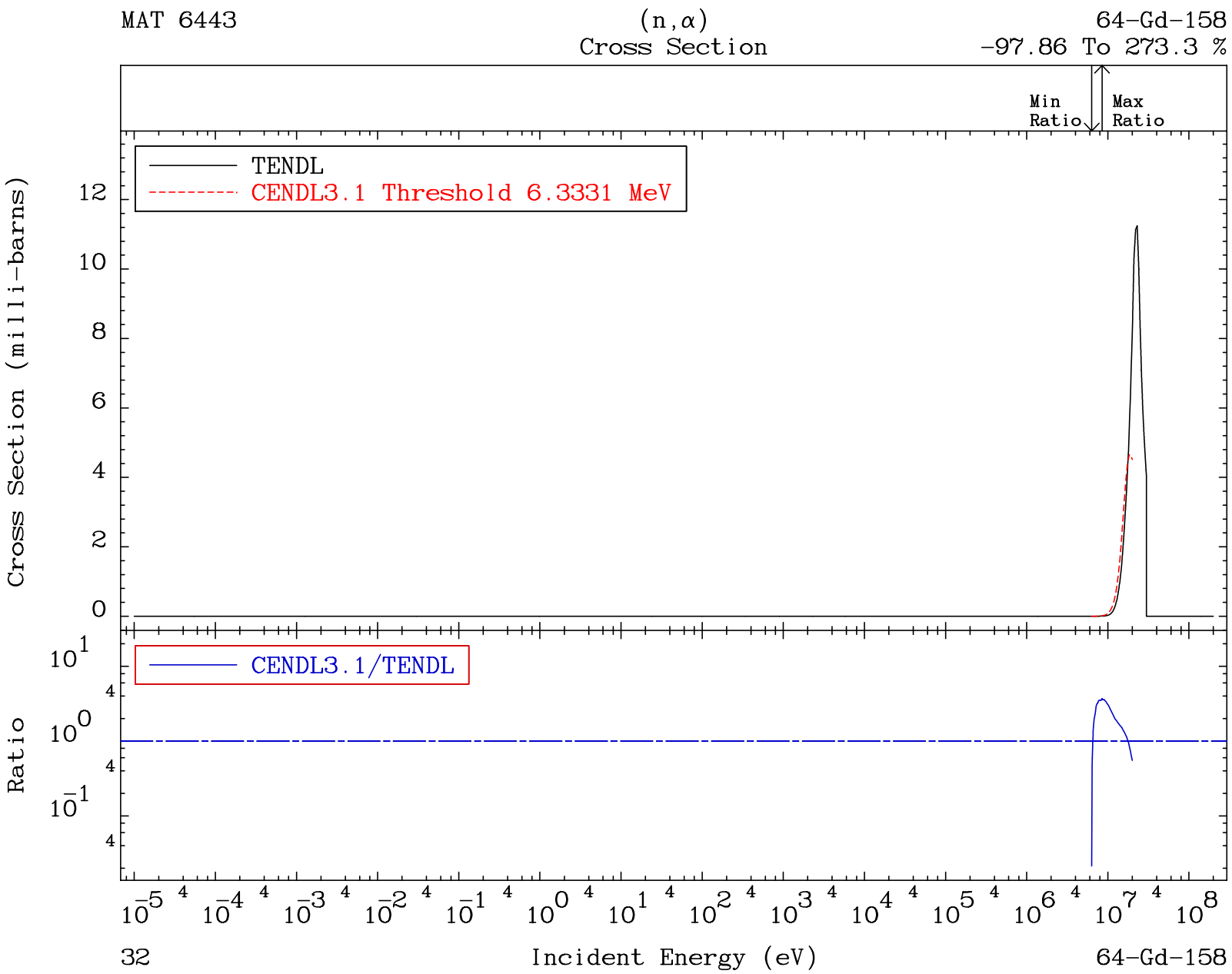

MAT 6443
(n,n') Continuum
Cross Section
64-Gd-158
7.373 To 1381. %
Max Ratio
Min Ratio
TENDL Threshold 1.6344 MeV
CENDL3.1 Threshold 1.4119 MeV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
10^1
10^0
2
6
4
2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
64-Gd-158

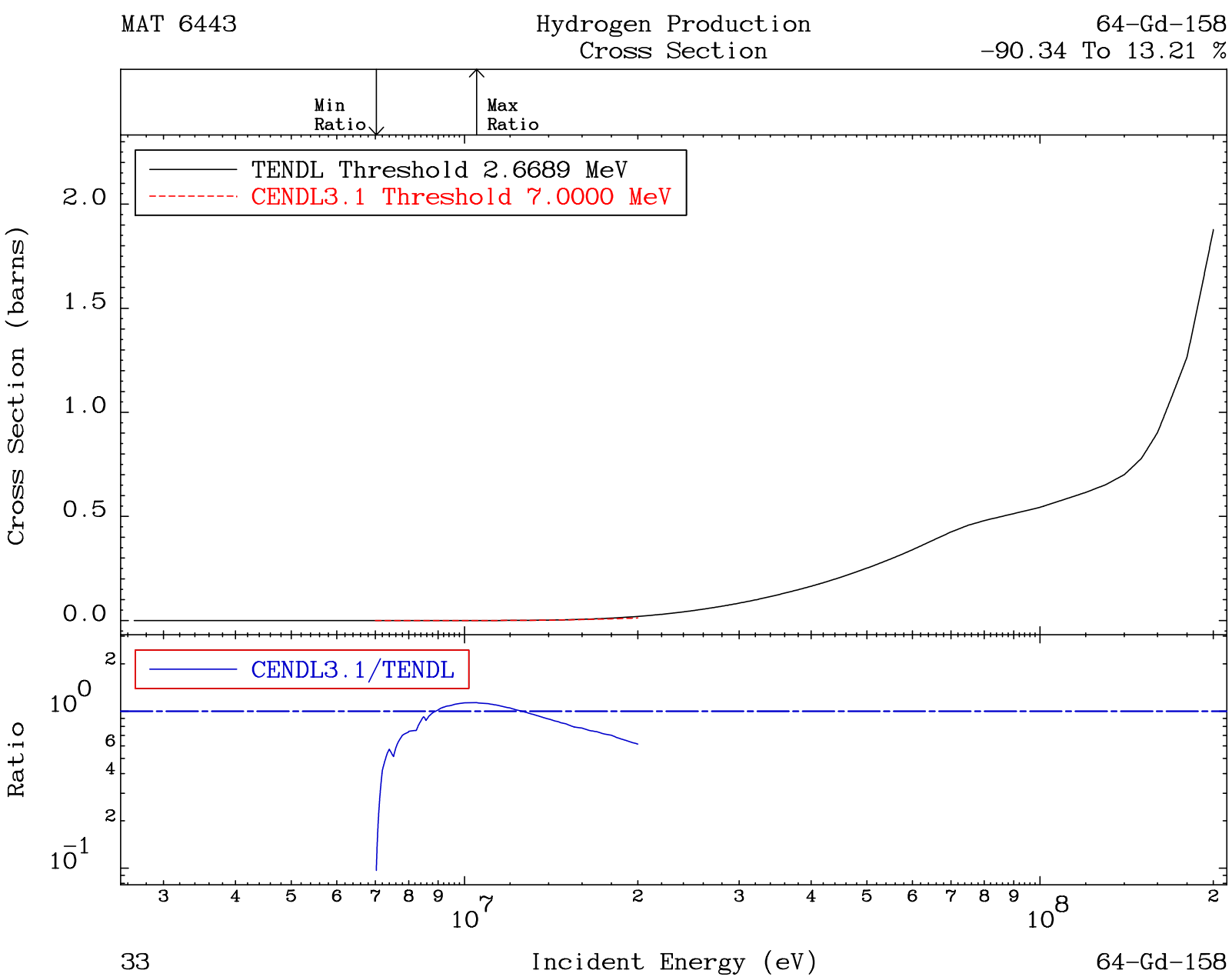

MAT 6443
(n,γ)
Cross Section
64-Gd-158
-99.80 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
28
64-Gd-158

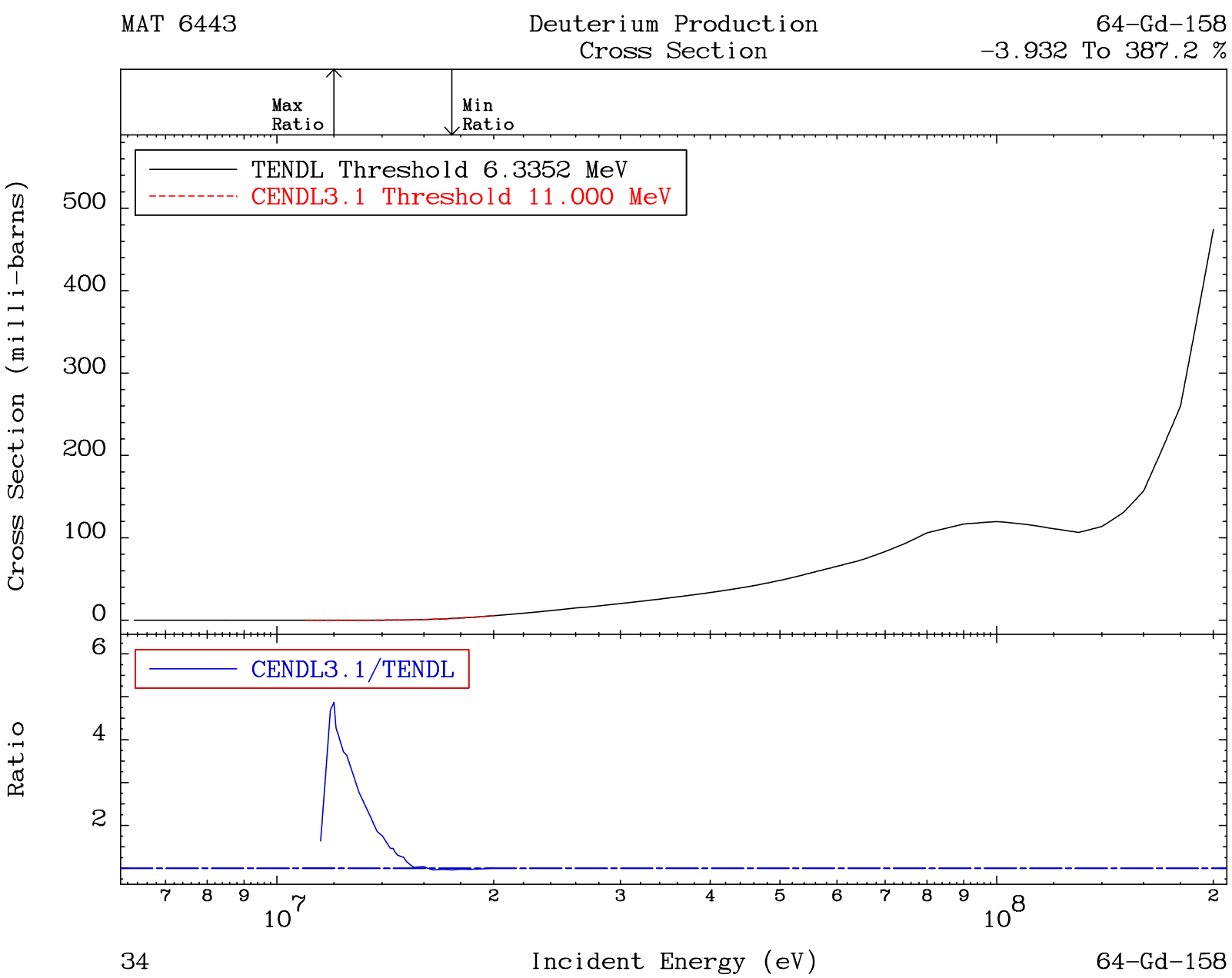

MAT 6443
(n,p)
Cross Section
64-Gd-158
-90.34 To 13.21 %
Min Ratio
Max Ratio
TENDL Threshold 2.6689 MeV
CENDL3.1 Threshold 7.0000 MeV
Cross Section (milli-barns)
16
12
8
4
0
CENDL3.1/TENDL
Ratio
2
10^0
6
4
2
10^-1
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
64-Gd-158

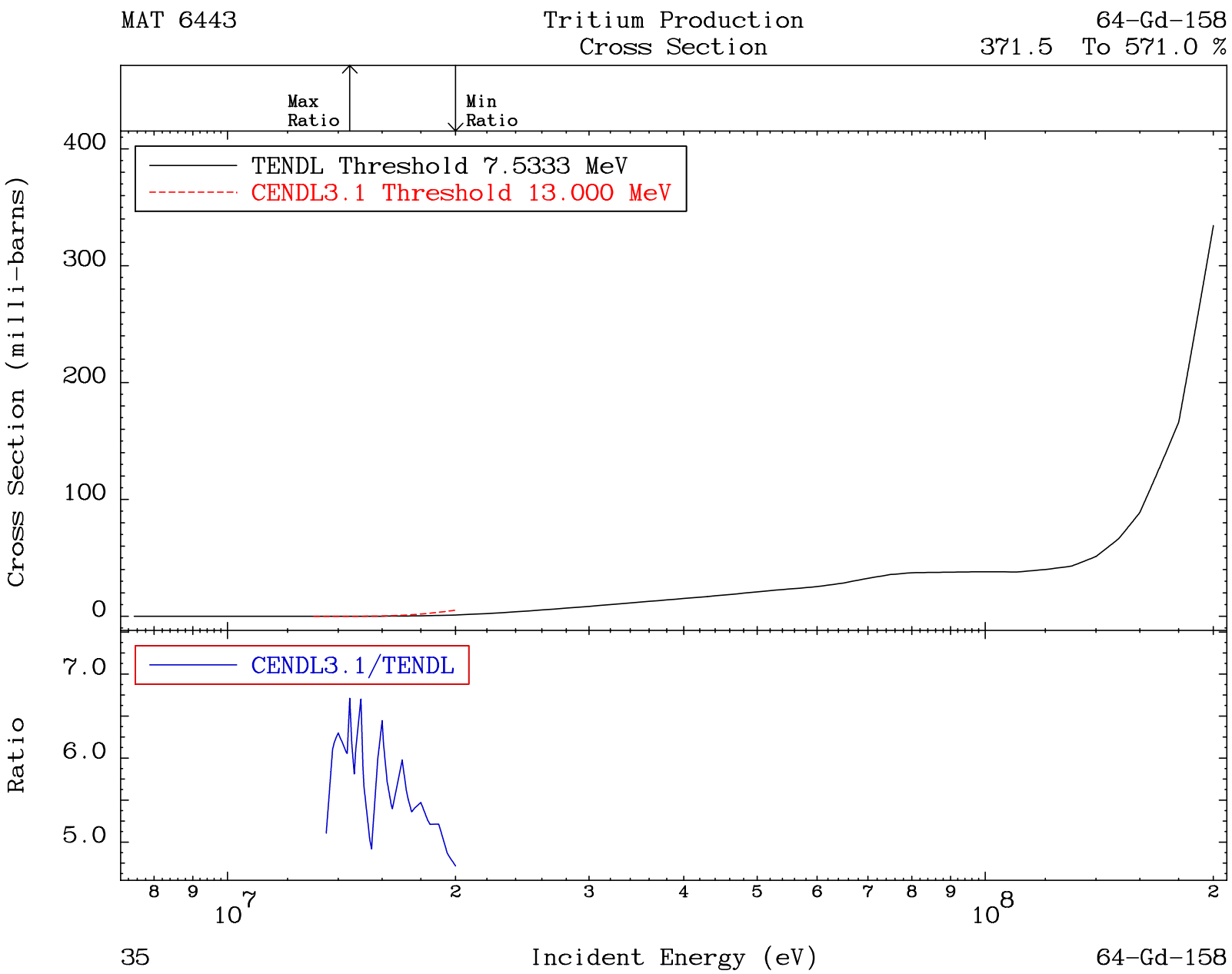

MAT 6443
(n,d)
Cross Section
64-Gd-158
-3.932 To 387.2 %
Max Ratio
Min Ratio
TENDL Threshold 6.3352 MeV
CENDL3.1 Threshold 11.000 MeV
Cross Section (milli-barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
30
64-Gd-158

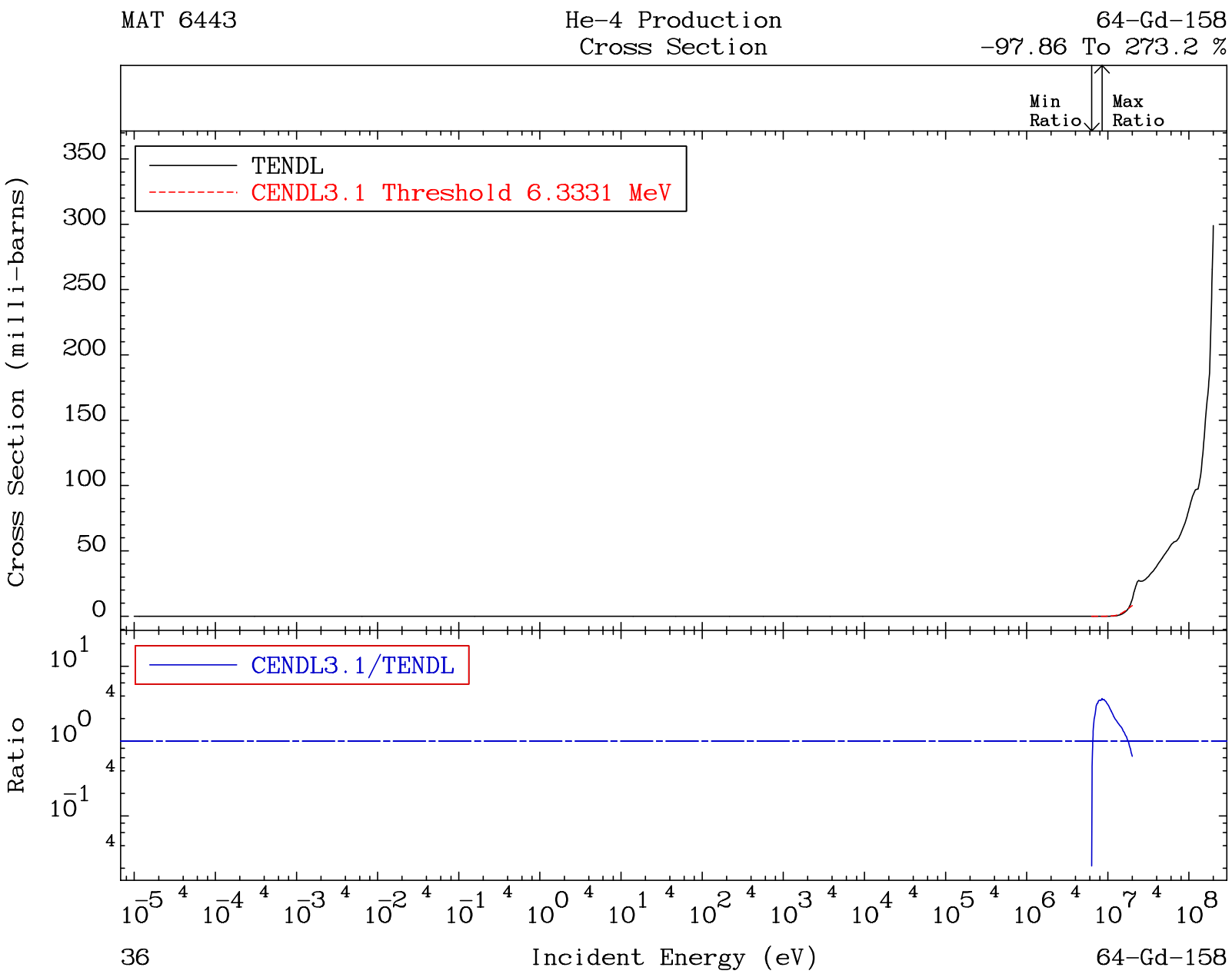

MAT 6443
(n,t)
Cross Section
64-Gd-158
372.0 To 571.0 %
Max Ratio
Min Ratio
TENDL Threshold 7.5333 MeV
CENDL3.1 Threshold 13.000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
CENDL3.1/TENDL
Ratio
5.0
6.0
7.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
64-Gd-158

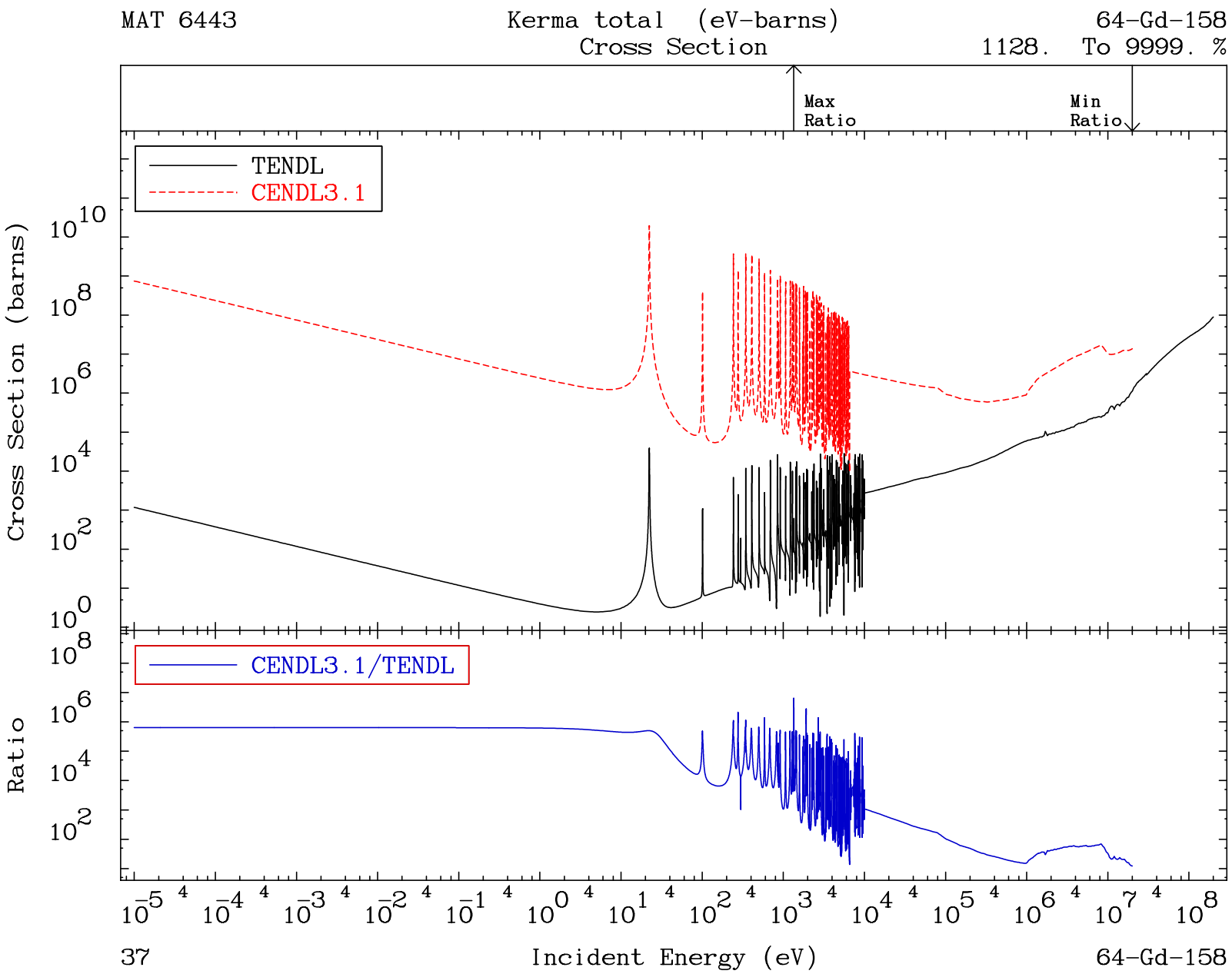

MAT 6443
(n,α)
Cross Section
64-Gd-158
-97.86 To 273.3 %
Min Ratio
Max Ratio
TENDL
CENDL3.1 Threshold 6.3331 MeV
Cross Section (milli-barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
32
64-Gd-158

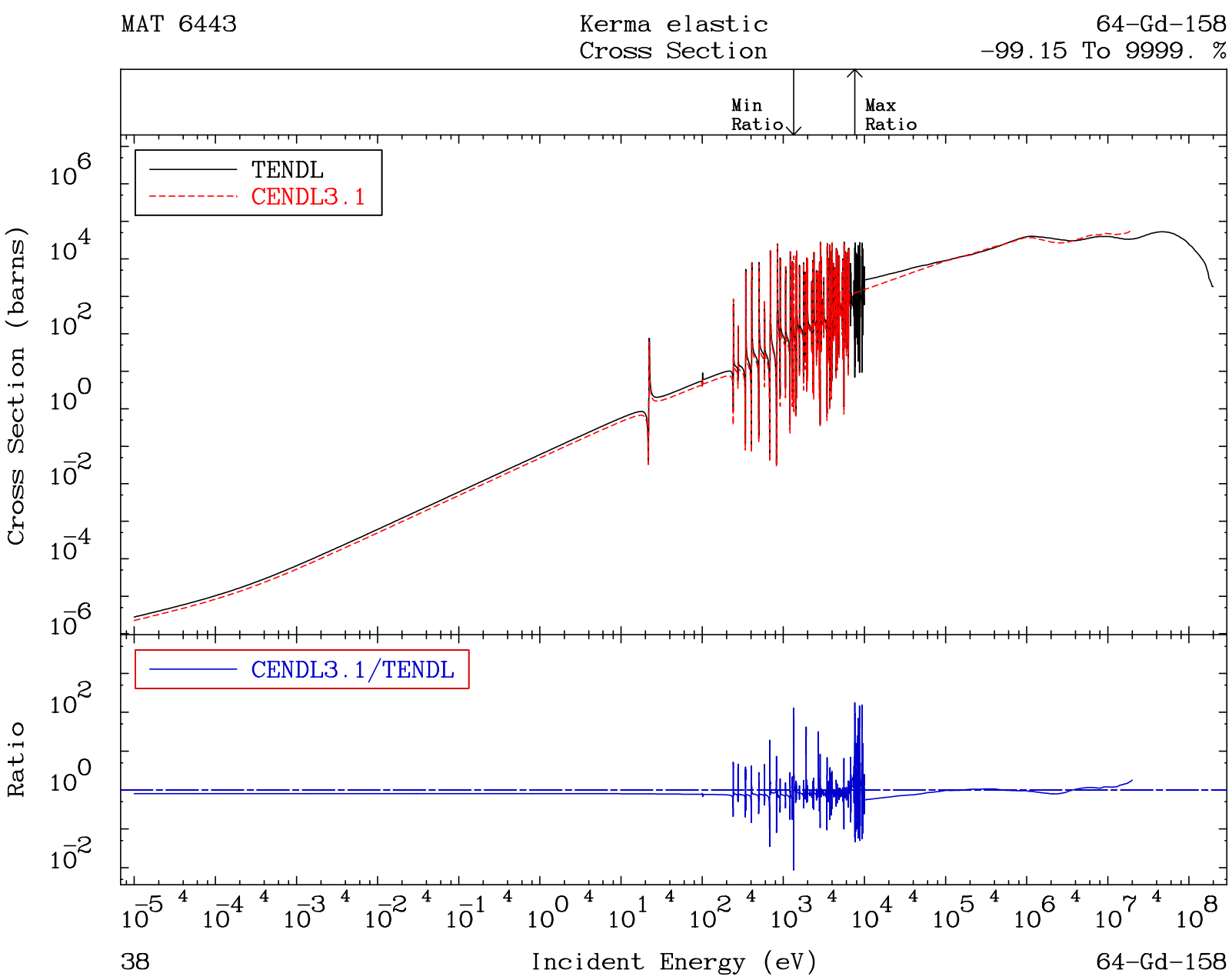

MAT 6443
Hydrogen Production
Cross Section
64-Gd-158
-90.34 To 13.21 %
Min Ratio
Max Ratio
TENDL Threshold 2.6689 MeV
CENDL3.1 Threshold 7.0000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
2
10^0
6
4
2
10^-1
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
64-Gd-158

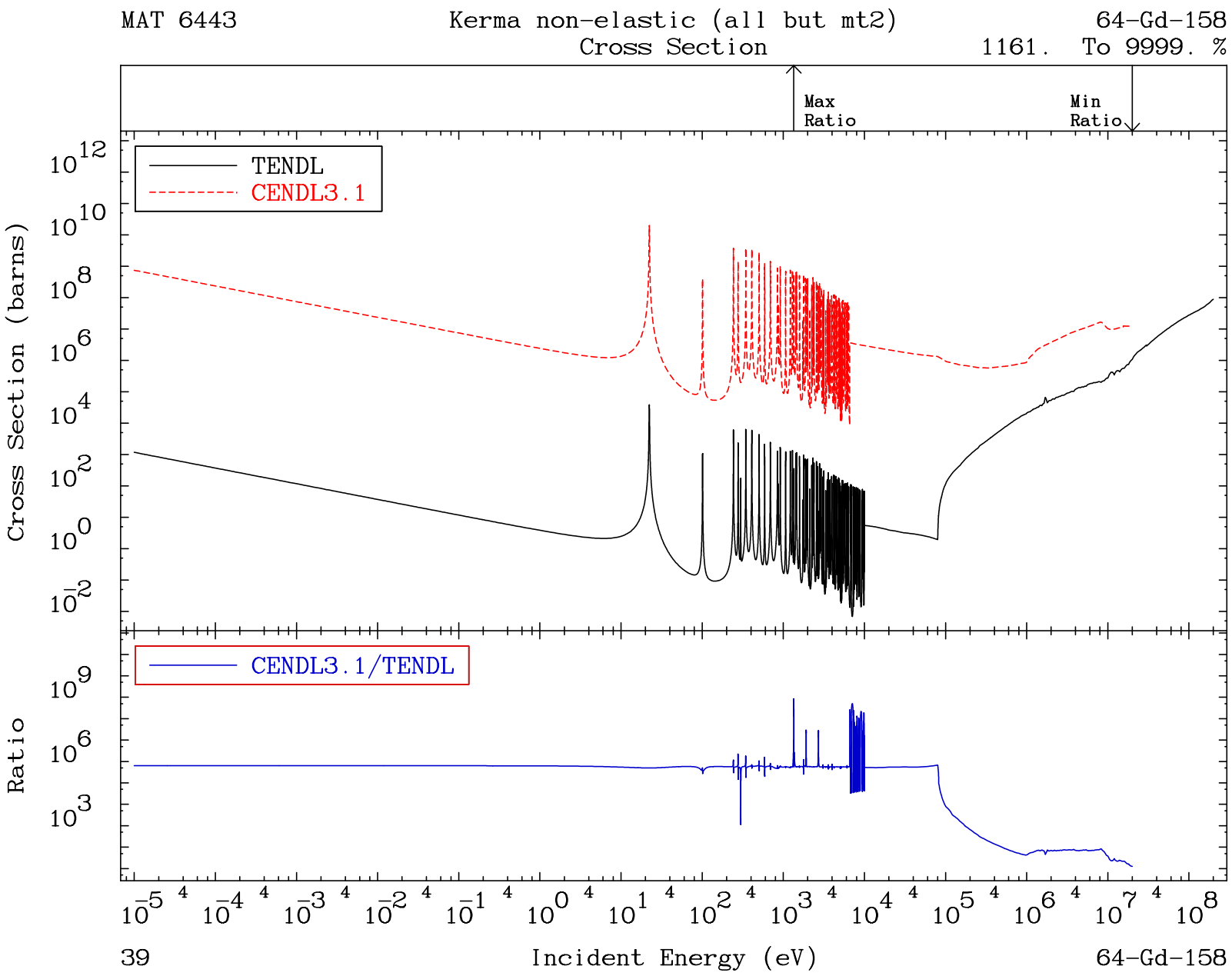

MAT 6443
Deuterium Production
Cross Section
64-Gd-158
-3.932 To 387.2 %
Max Ratio
Min Ratio
TENDL Threshold 6.3352 MeV
CENDL3.1 Threshold 11.000 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
CENDL3.1/TENDL
Ratio
6
4
2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
64-Gd-158

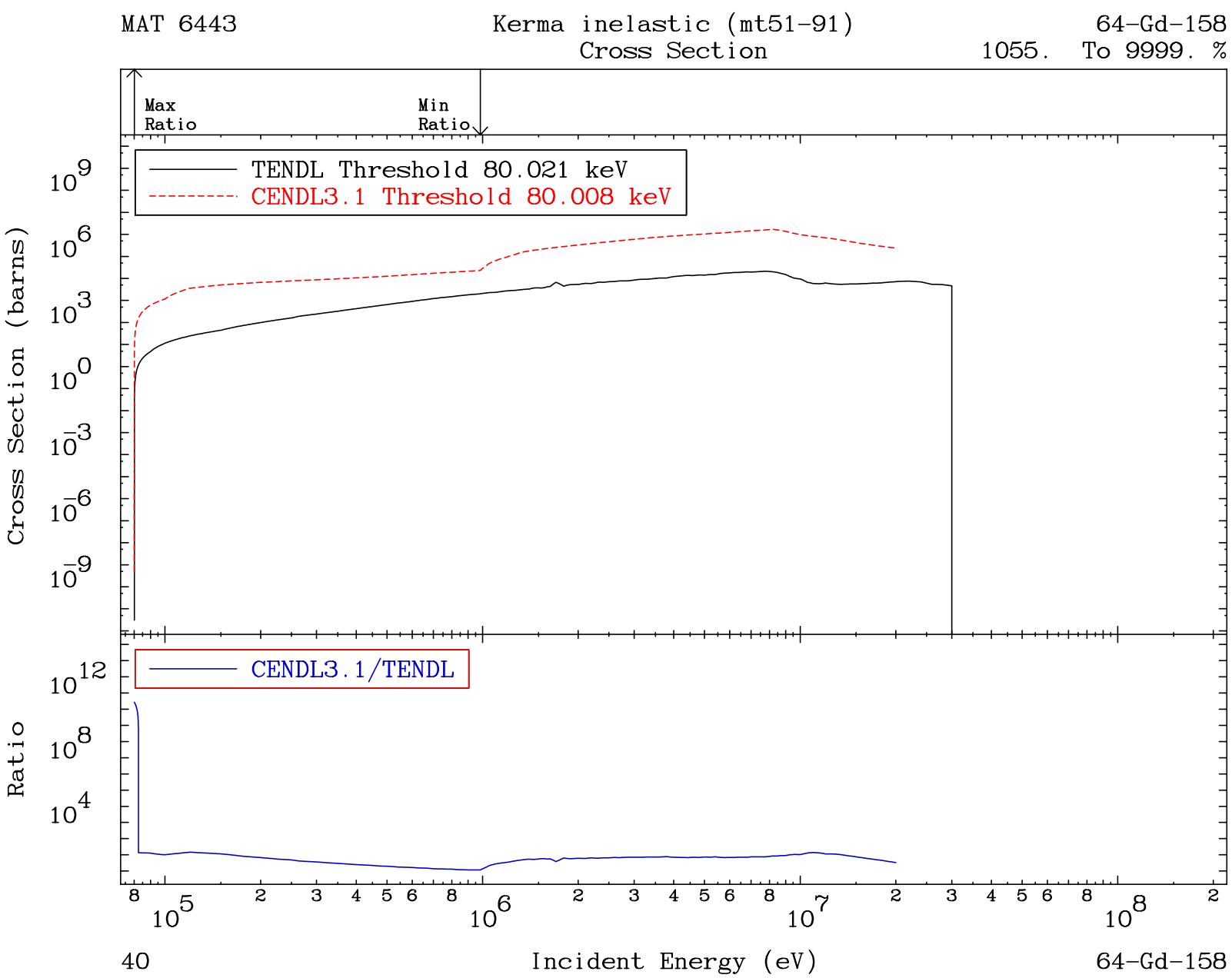

MAT 6443
Tritium Production
Cross Section
64-Gd-158
371.5 To 571.0 %
Max Ratio
Min Ratio
TENDL Threshold 7.5333 MeV
CENDL3.1 Threshold 13.000 MeV
Cross Section (milli-barns)
400
300
200
100
0
CENDL3.1/TENDL
Ratio
7.0
6.0
5.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
64-Gd-158

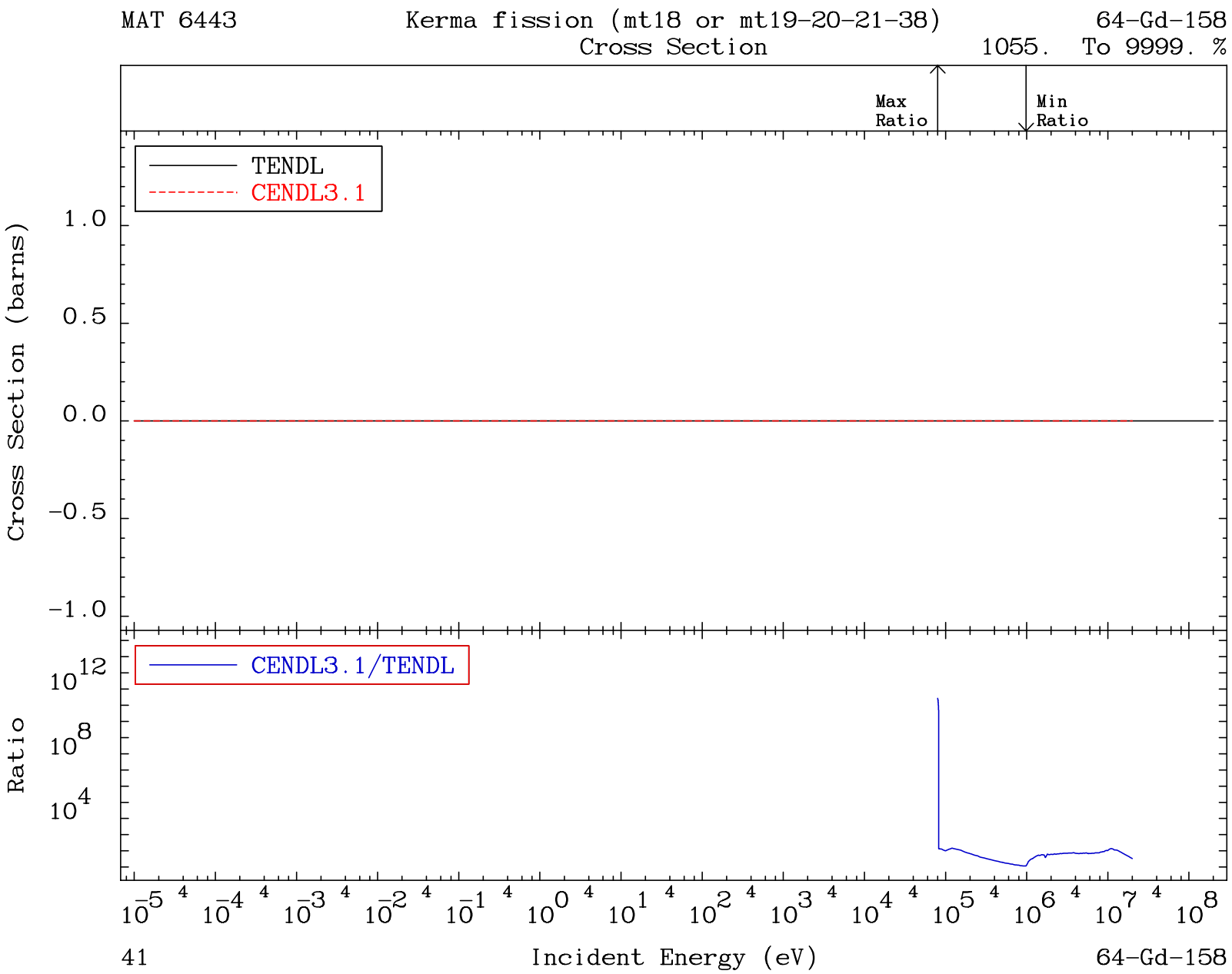

MAT 6443
He-4 Production
Cross Section
64-Gd-158
-97.86 To 273.2 %
Min Ratio
Max Ratio
TENDL
CENDL3.1 Threshold 6.3331 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
CENDL3.1/TENDL
Ratio
10^{1}
10^{0}
10^{-1}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
36
Incident Energy (eV)
64-Gd-158

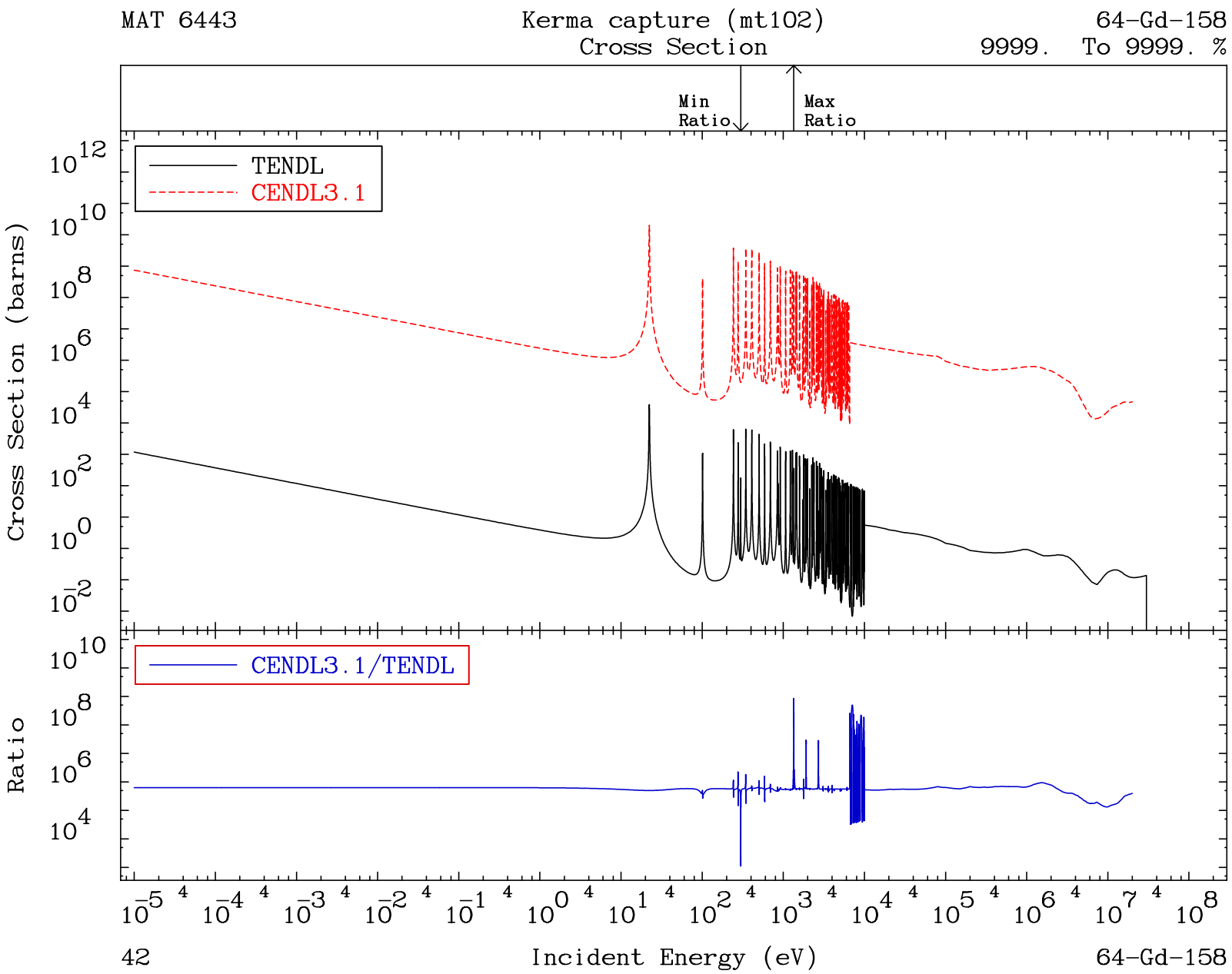

MAT 6443
Kerma total (eV-barns)
Cross Section
64-Gd-158
1128. To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
37
64-Gd-158

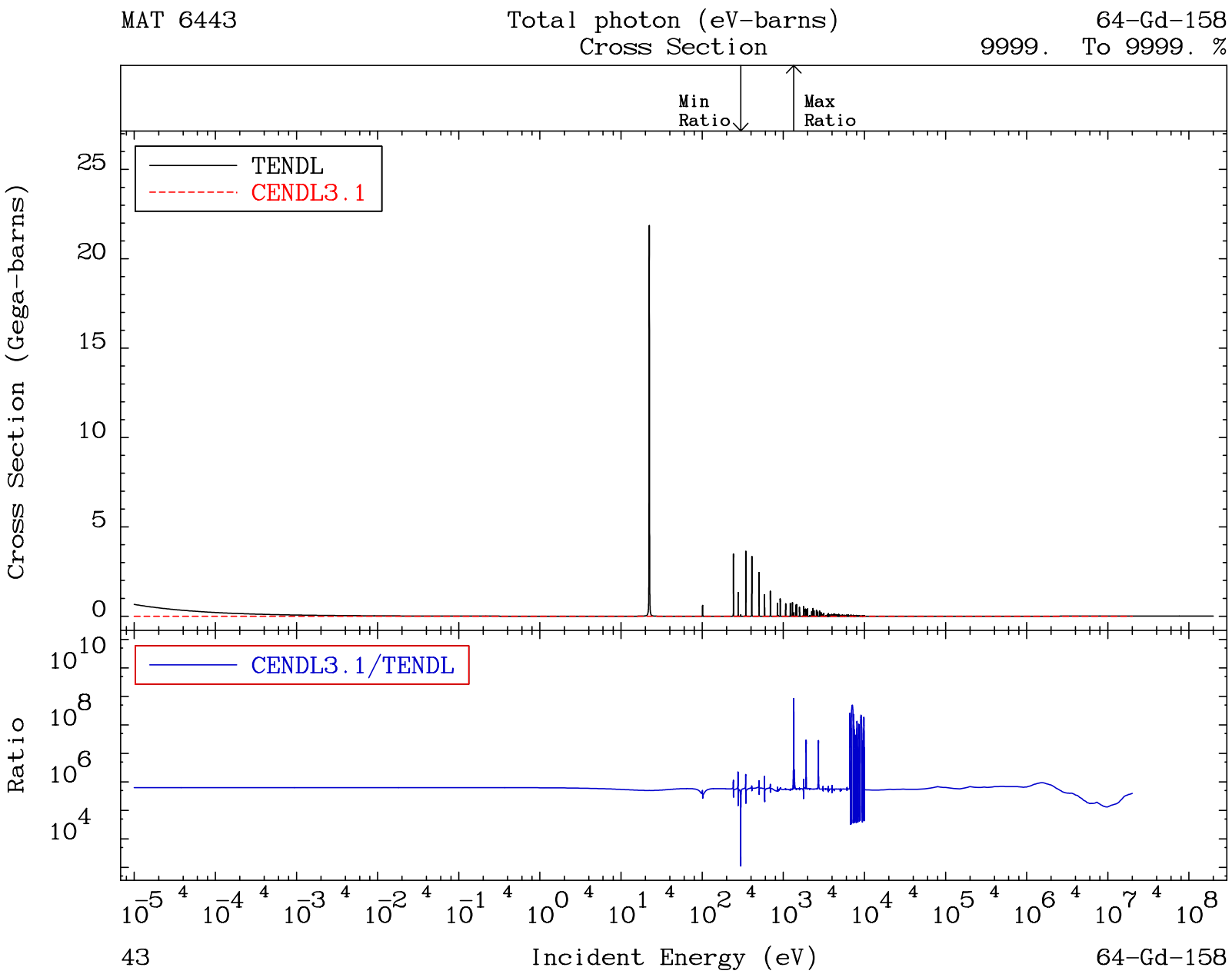

MAT 6443
Kerma elastic
Cross Section
64-Gd-158
-99.15 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
38
64-Gd-158

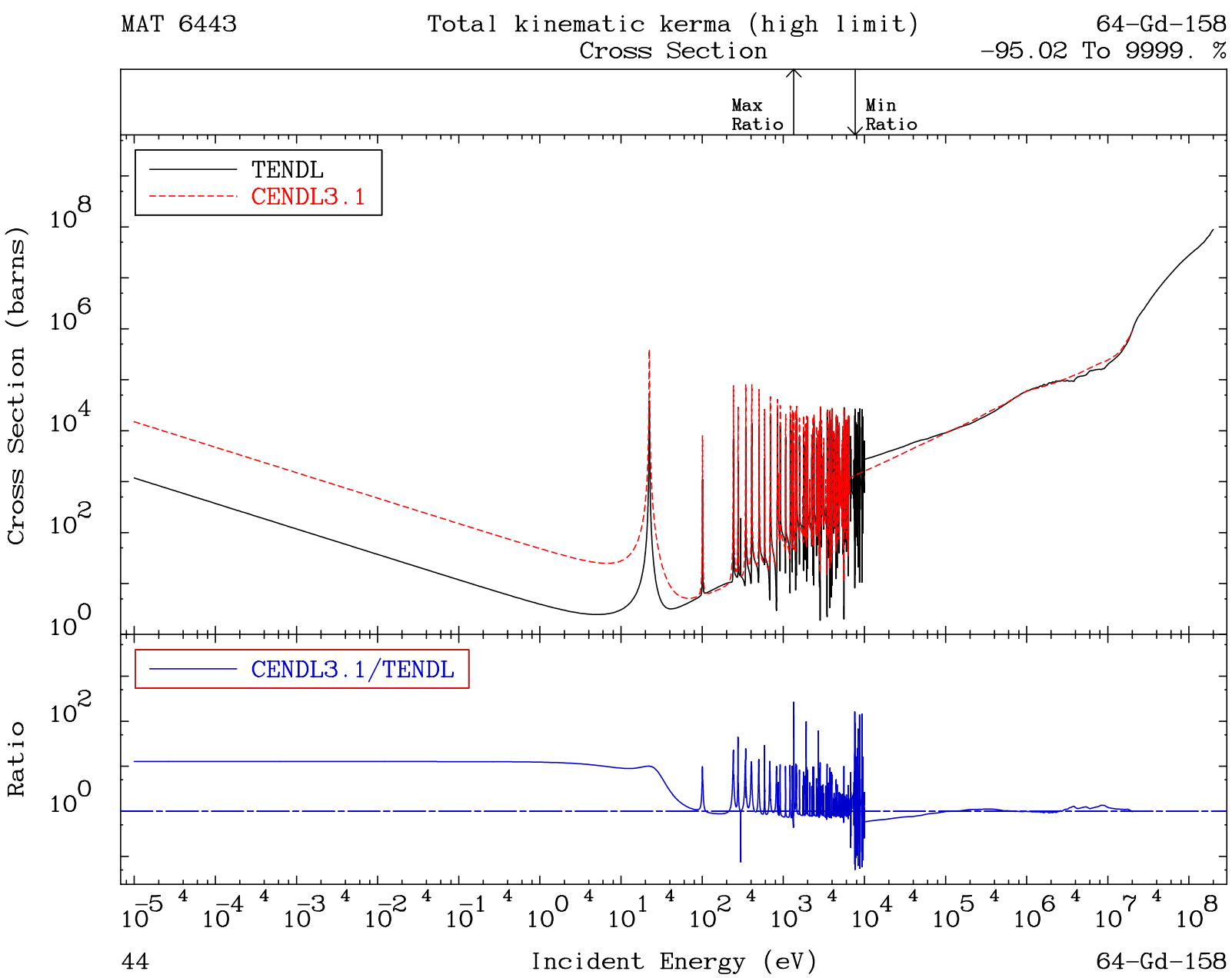

MAT 6443
Kerma non-elastic (all but mt2)
Cross Section
64-Gd-158
1161. To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
39
64-Gd-158

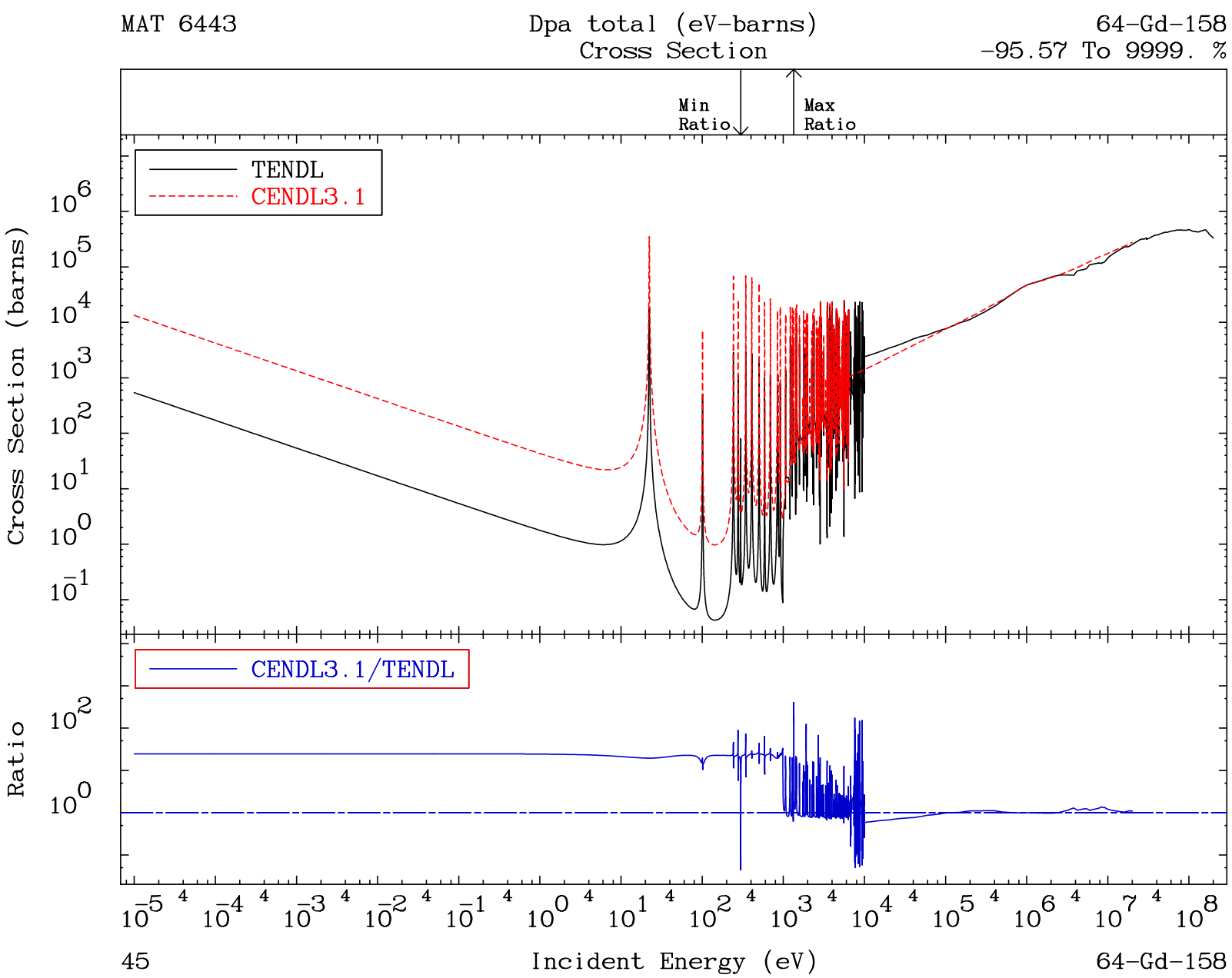

MAT 6443
Kerma inelastic (mt51-91)
Cross Section
64-Gd-158
1055. To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 80.021 keV
CENDL3.1 Threshold 80.008 keV
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
40
64-Gd-158

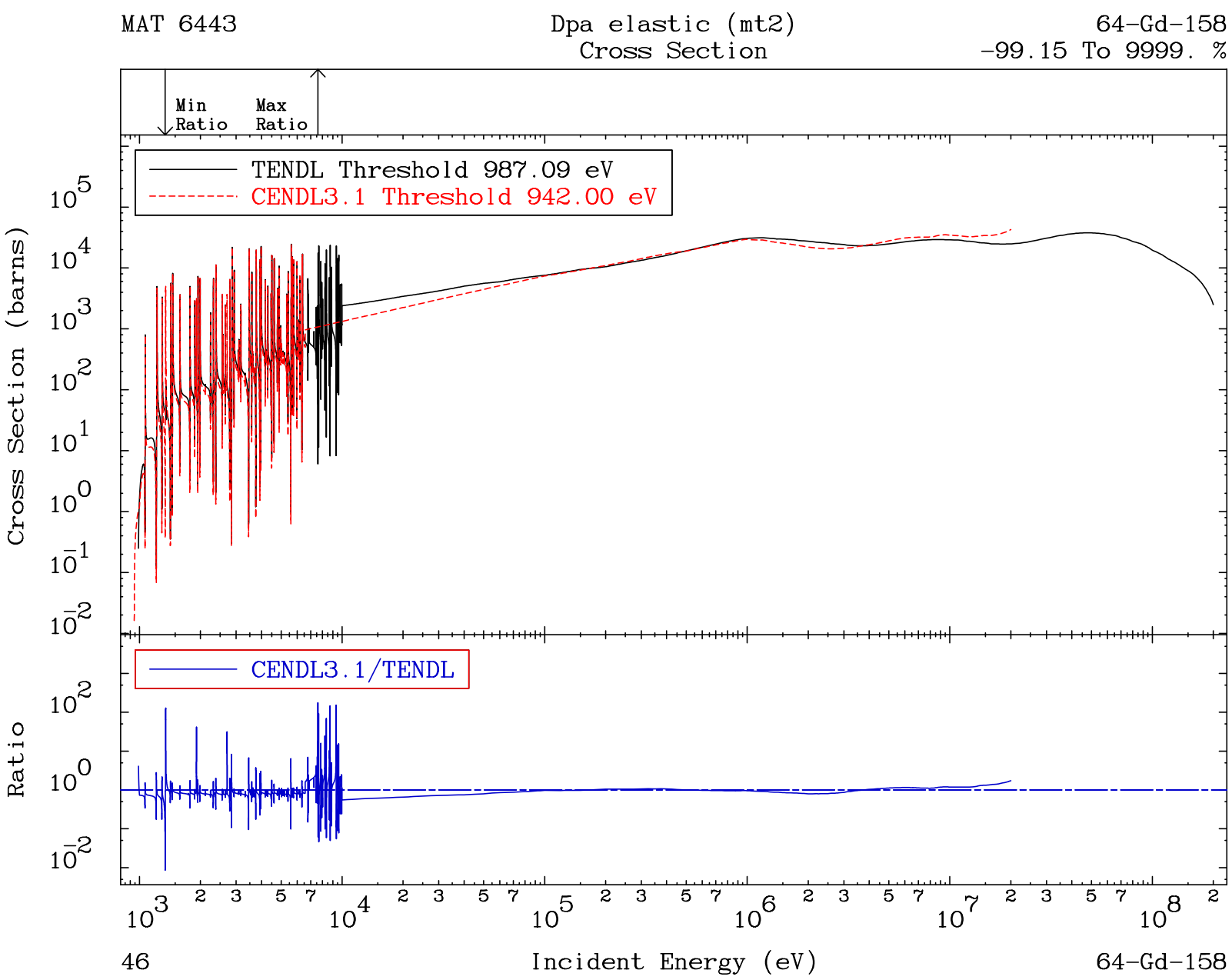

MAT 6443
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
64-Gd-158
1055. To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
CENDL3.1/TENDL
Ratio
10^12
10^8
10^4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
41
Incident Energy (eV)
64-Gd-158

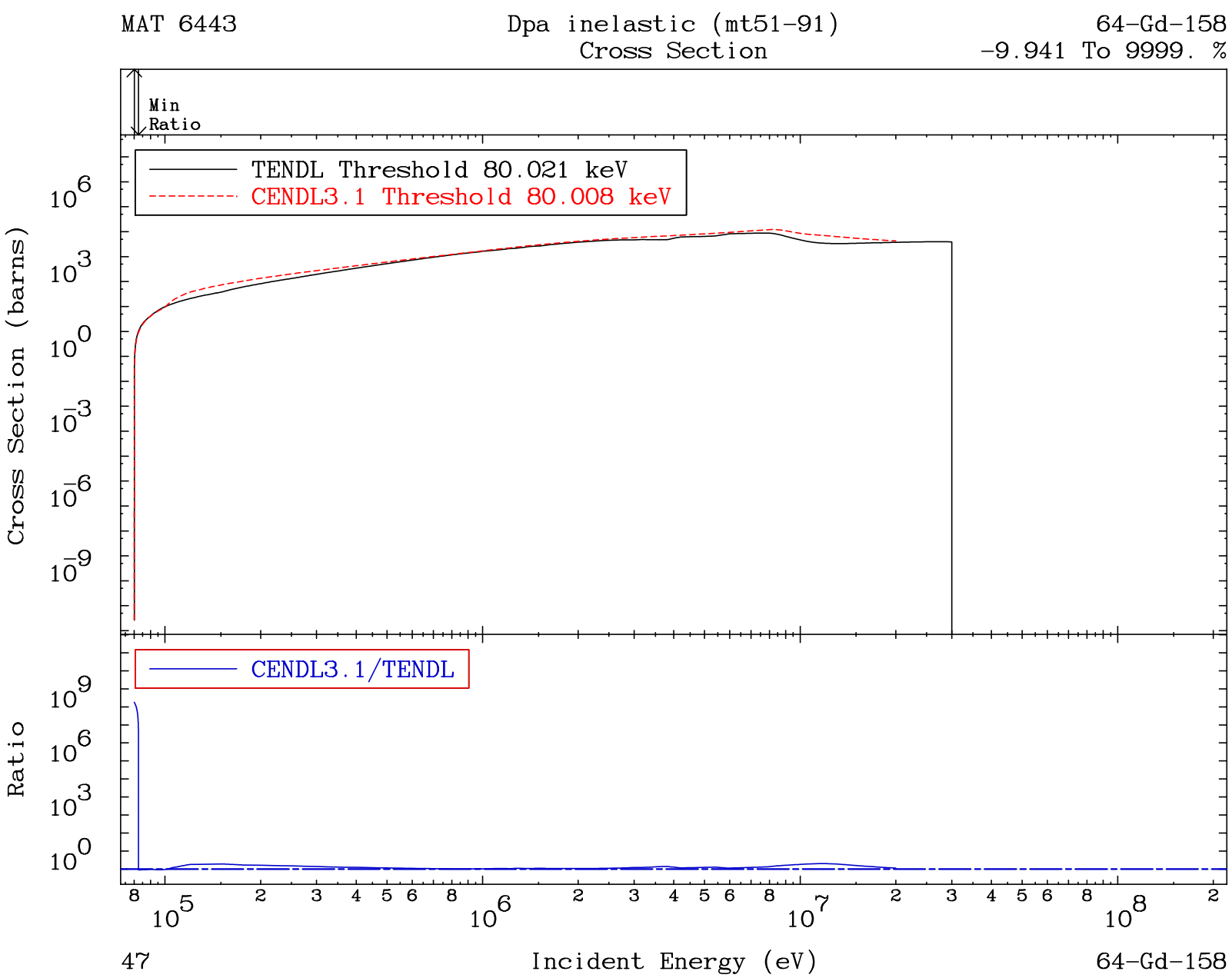

MAT 6443
Kerma capture (mt102)
Cross Section
64-Gd-158
9999. To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
42
64-Gd-158

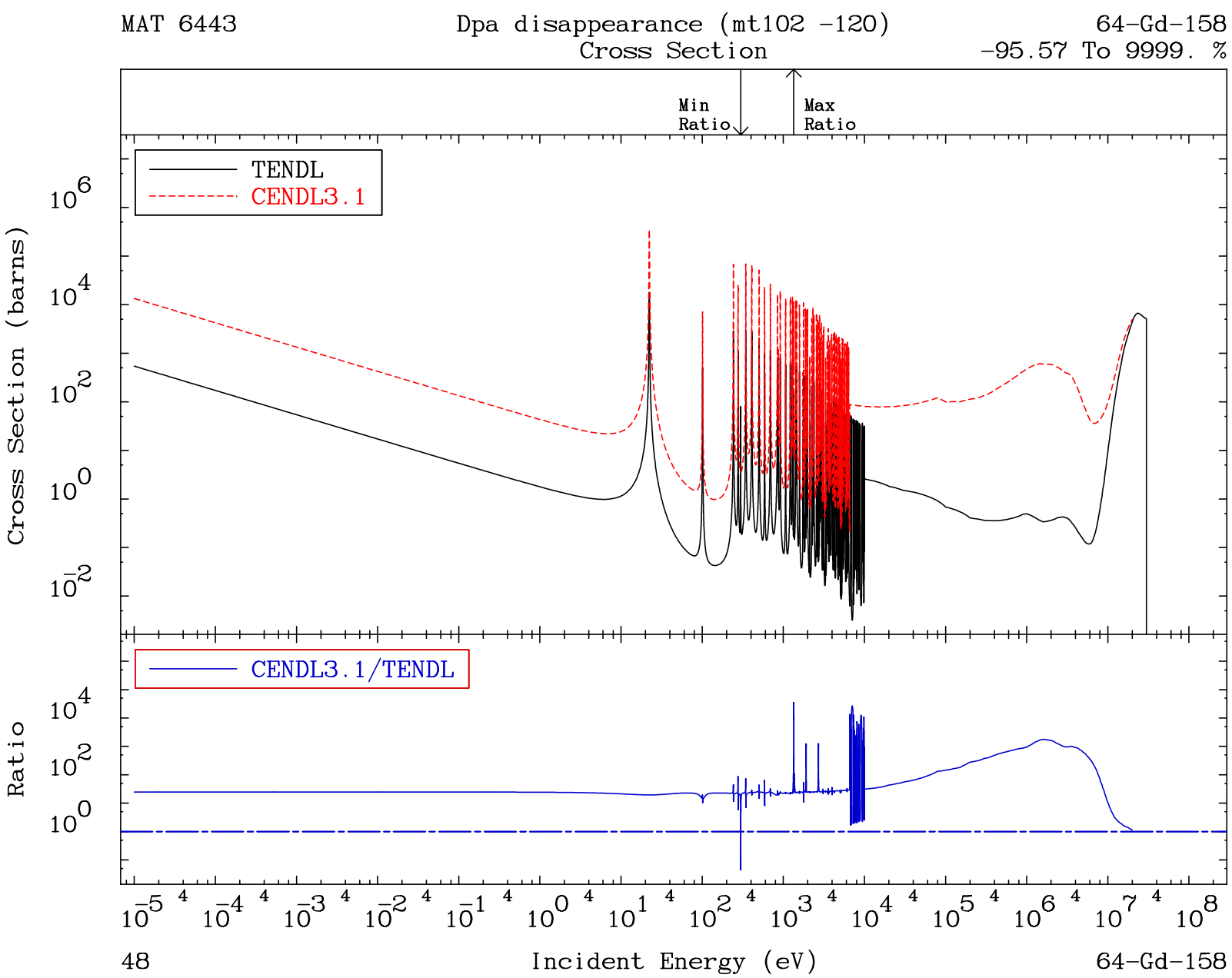

MAT 6443
Total photon (eV-barns)
Cross Section
64-Gd-158
9999. To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (Giga-barns)
25
20
15
10
5
0
CENDL3.1/TENDL
Ratio
10^{10}
10^{8}
10^{6}
10^{4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
43
Incident Energy (eV)
64-Gd-158

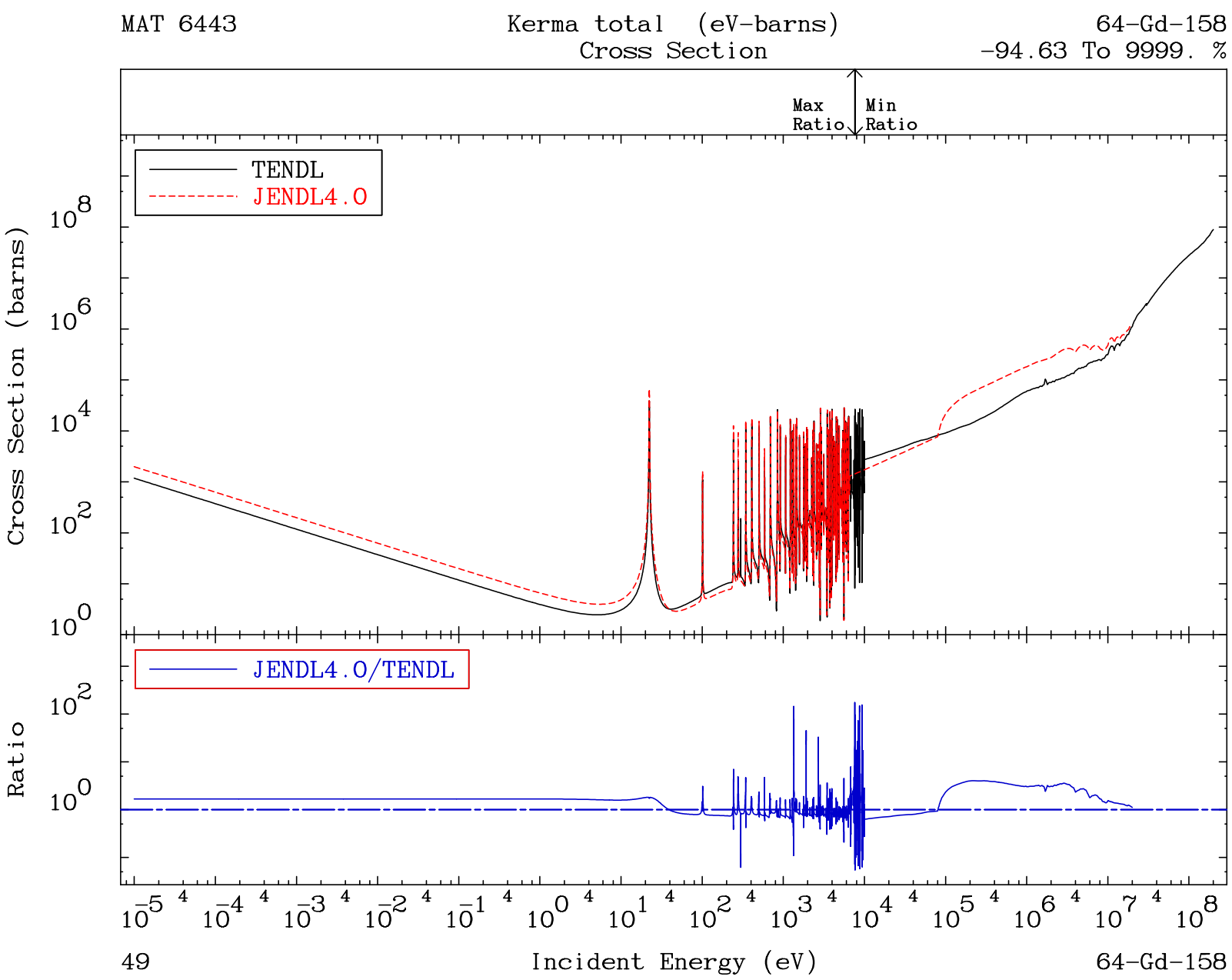

MAT 6443
Total kinematic kerma (high limit)
Cross Section
64-Gd-158
-95.02 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
44
64-Gd-158

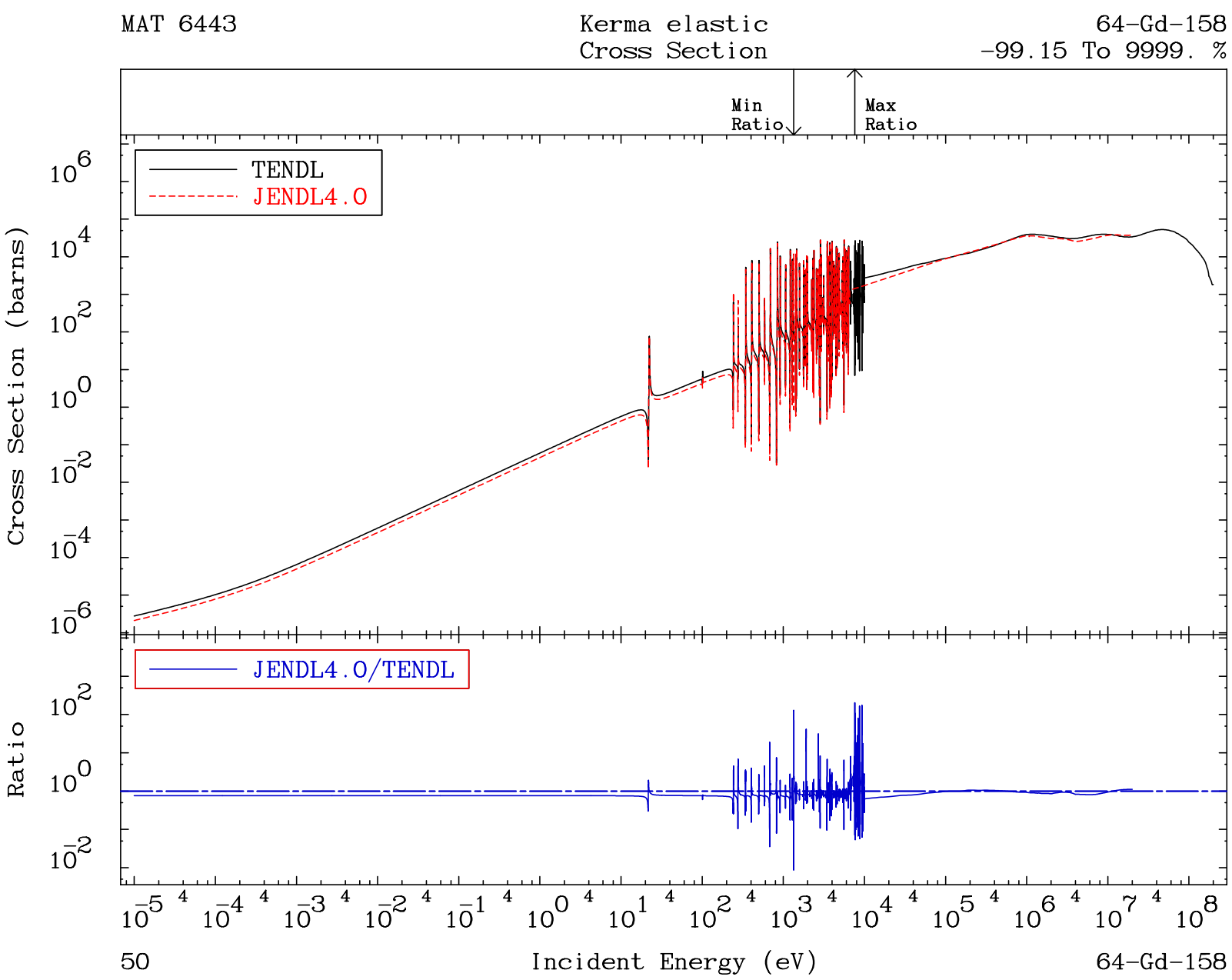

MAT 6443
Dpa total (eV-barns)
Cross Section
64-Gd-158
-95.57 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
45
64-Gd-158

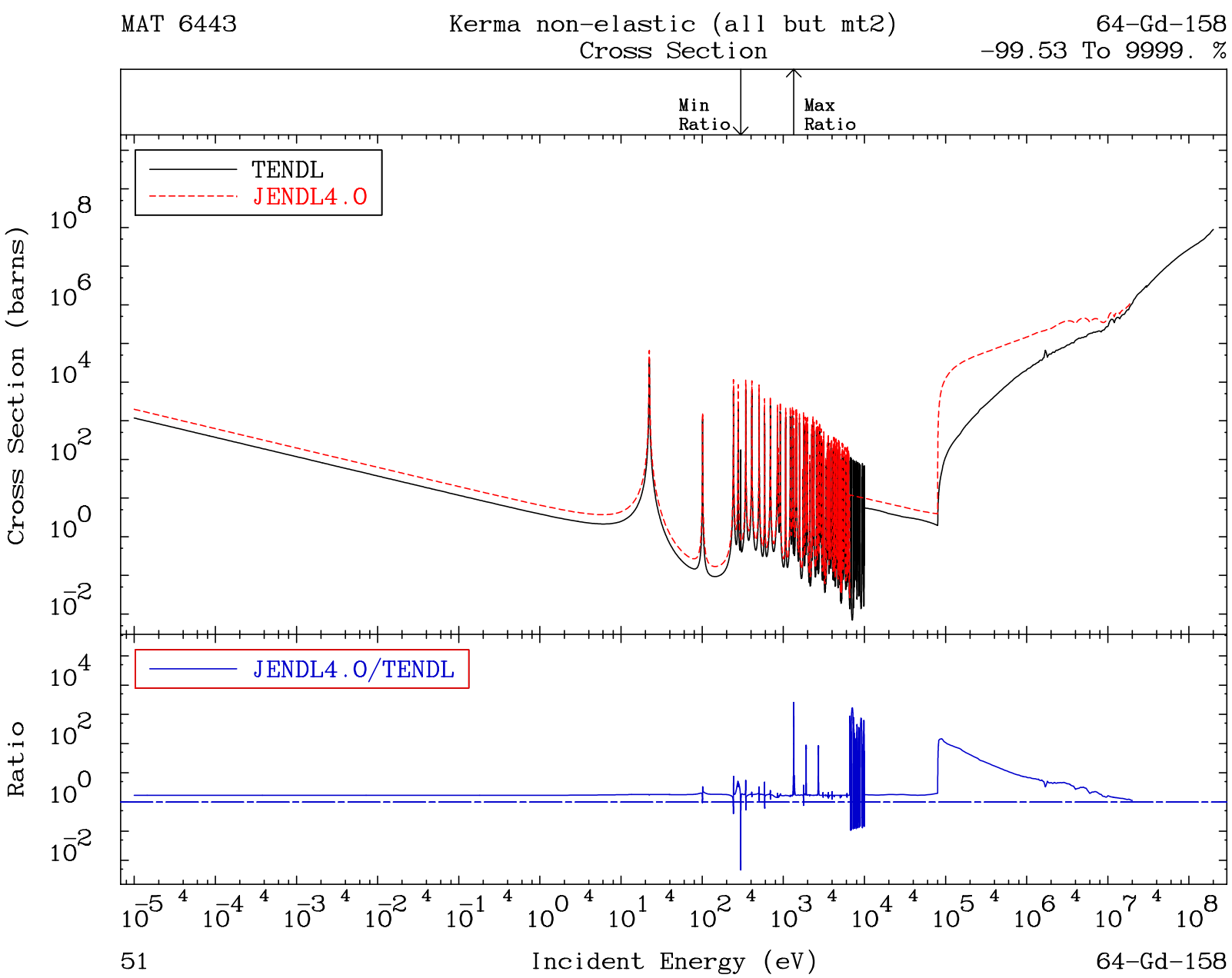

MAT 6443
Dpa elastic (mt2)
Cross Section
64-Gd-158
-99.15 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 987.09 eV
CENDL3.1 Threshold 942.00 eV
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
46
64-Gd-158

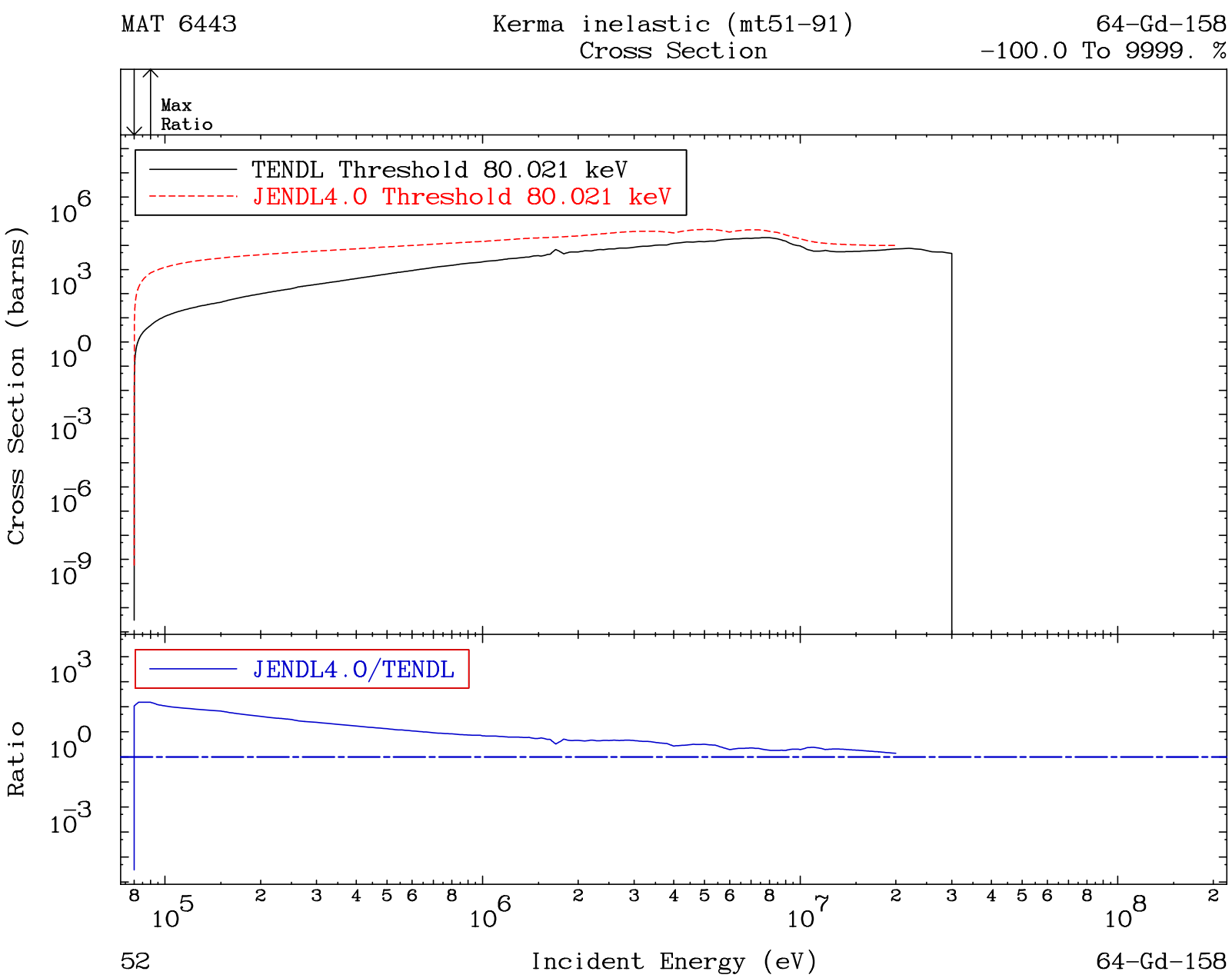

MAT 6443
Dpa inelastic (mt51-91)
Cross Section
64-Gd-158
-9.941 To 9999. %
Min
Ratio
TENDL Threshold 80.021 keV
CENDL3.1 Threshold 80.008 keV
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
47
64-Gd-158

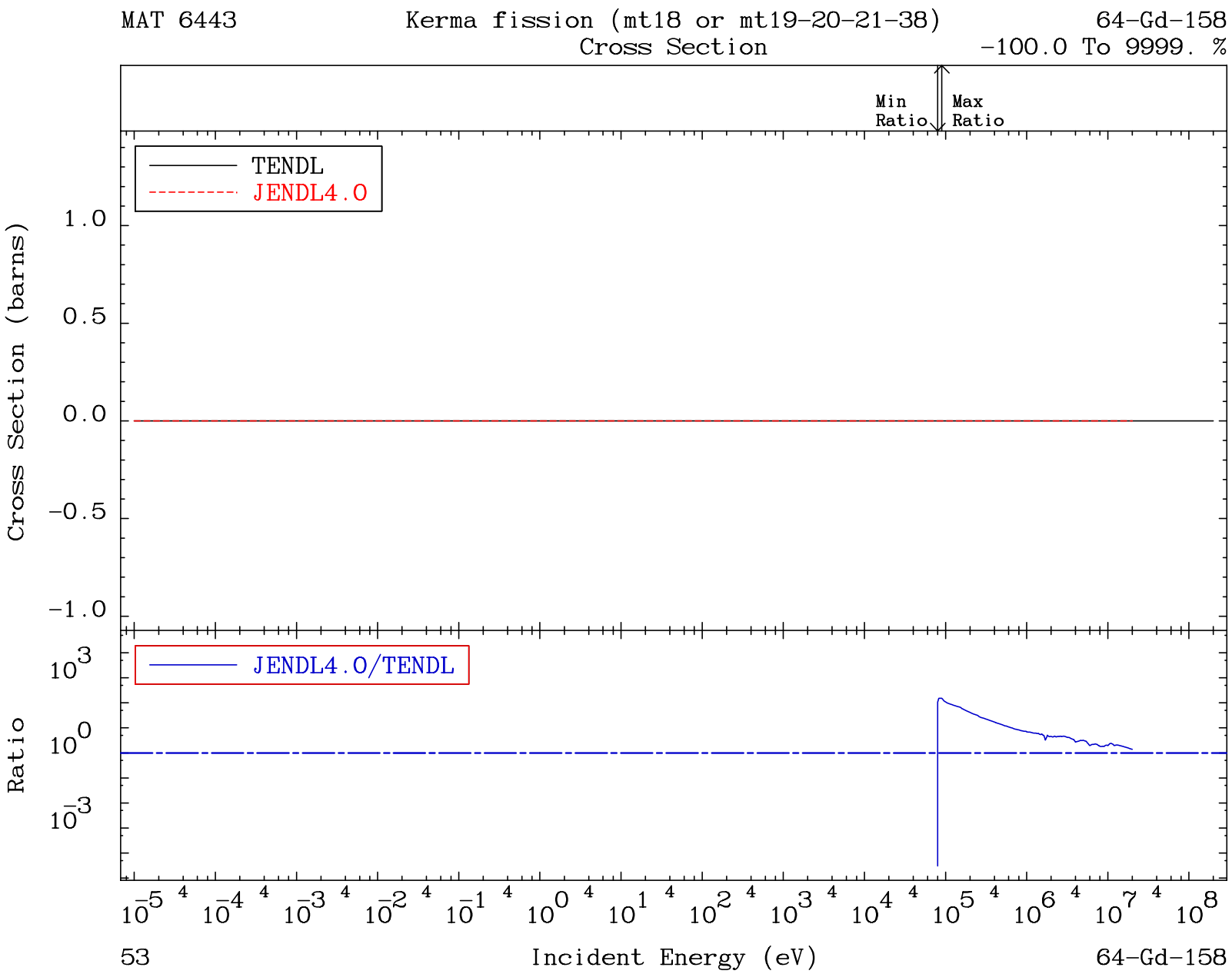

MAT 6443
Dpa disappearance (mt102 -120)
Cross Section
64-Gd-158
-95.57 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
48
64-Gd-158

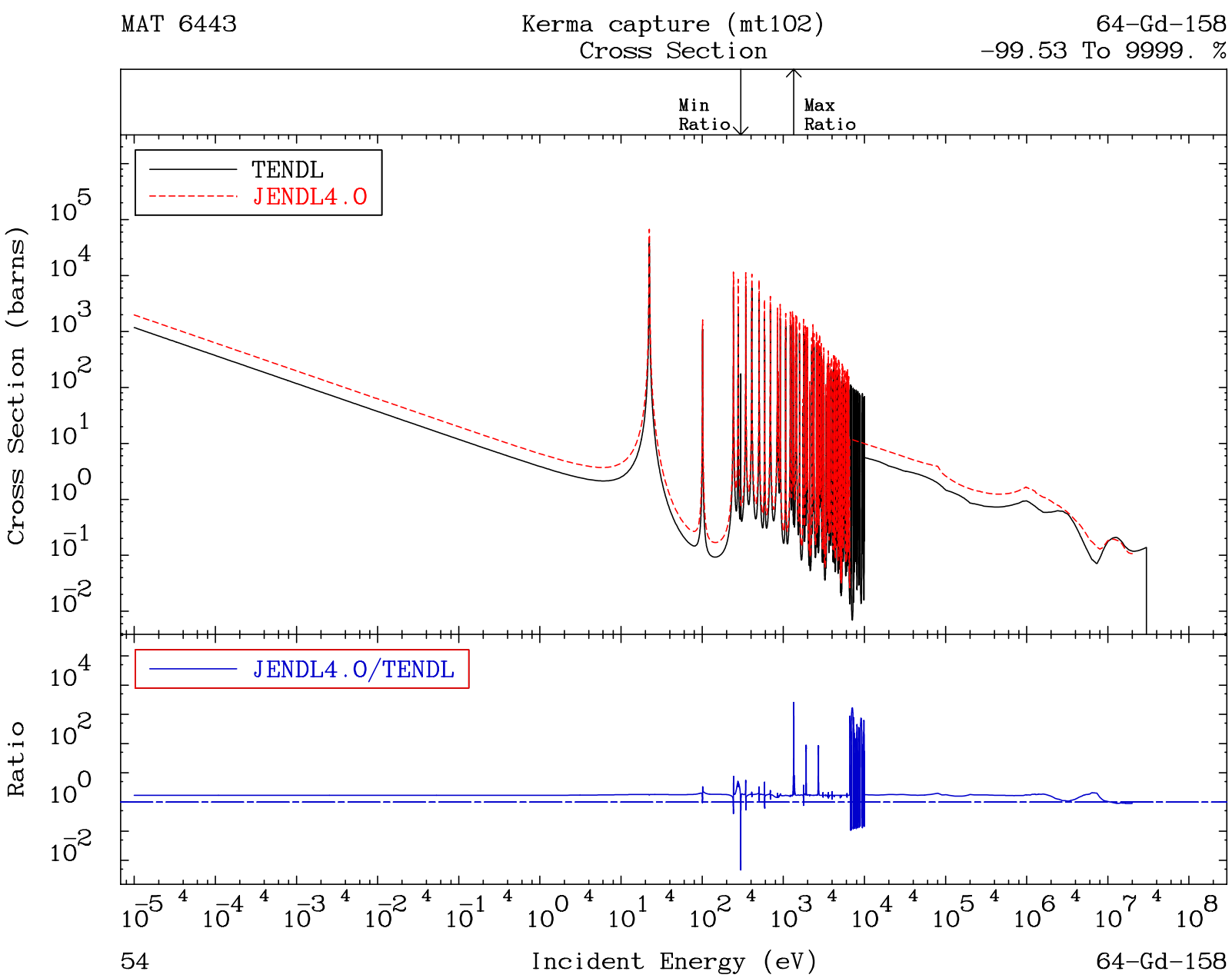

MAT 6443
Kerma total (eV-barns)
Cross Section
64-Gd-158
-94.63 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
49
64-Gd-158

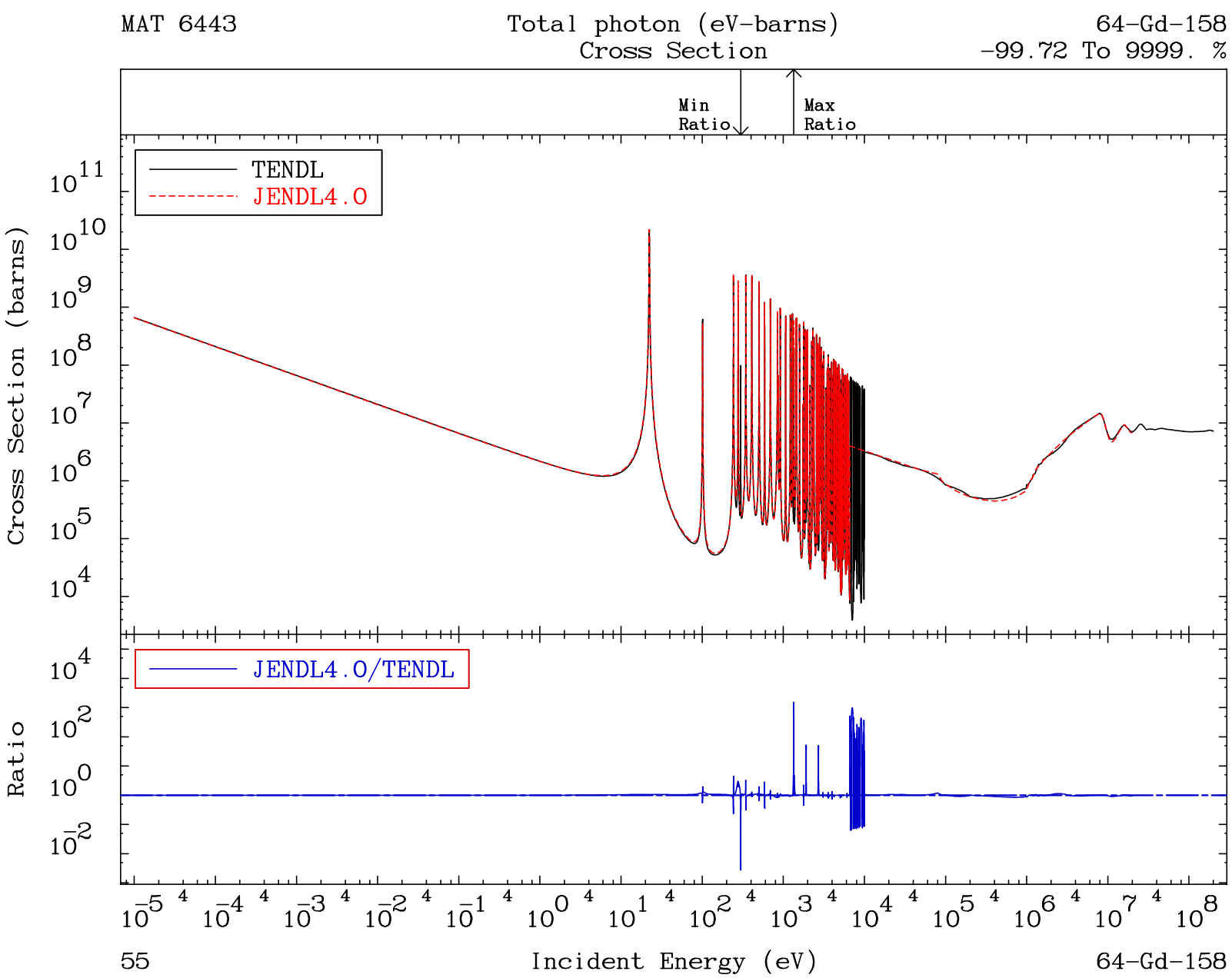

MAT 6443
Kerma elastic
Cross Section
64-Gd-158
-99.15 To 9999. %
Min
Ratio
Max
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
50
64-Gd-158

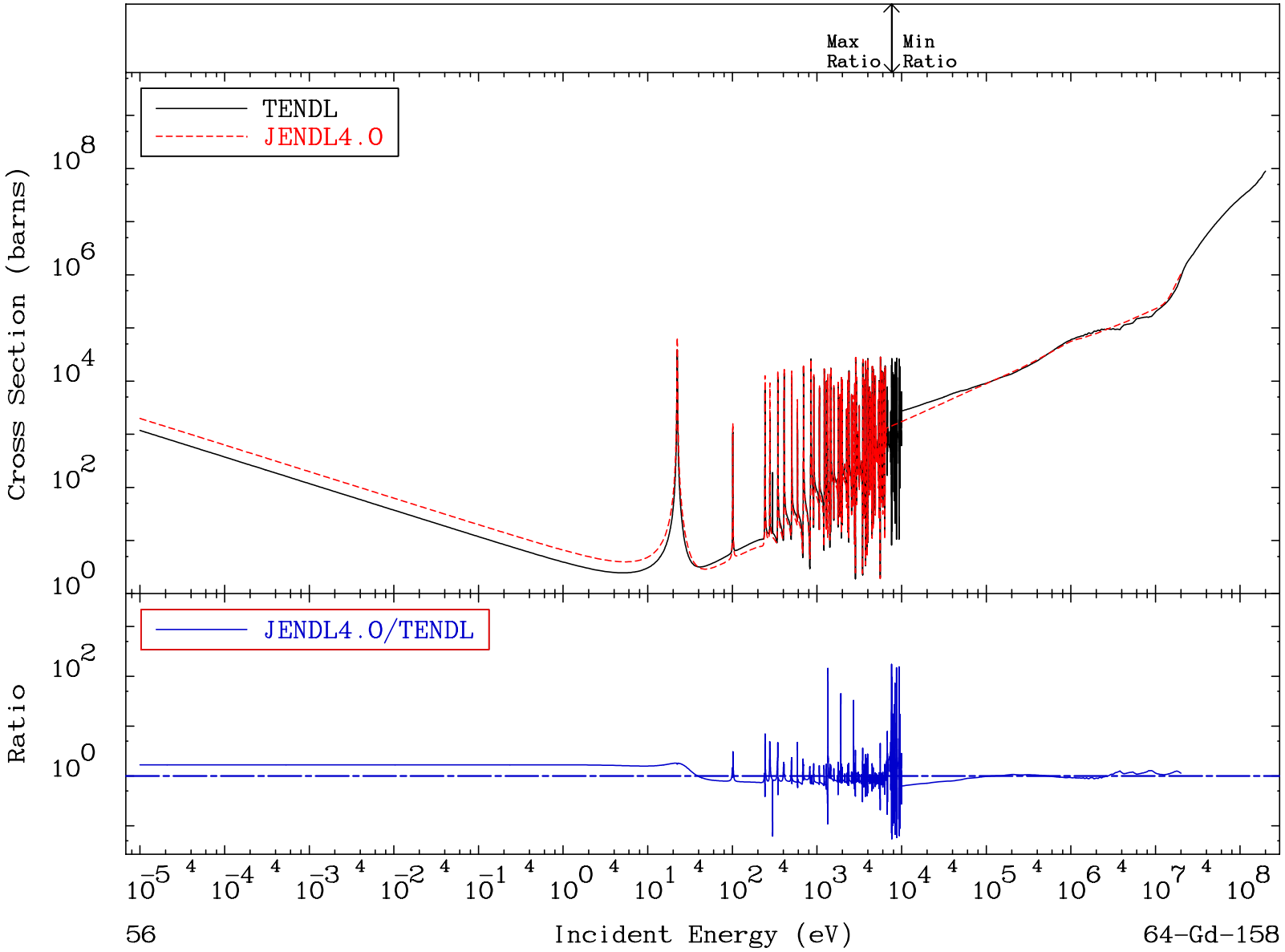

MAT 6443
Kerma non-elastic (all but mt2)
Cross Section
64-Gd-158
-99.53 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
51
64-Gd-158

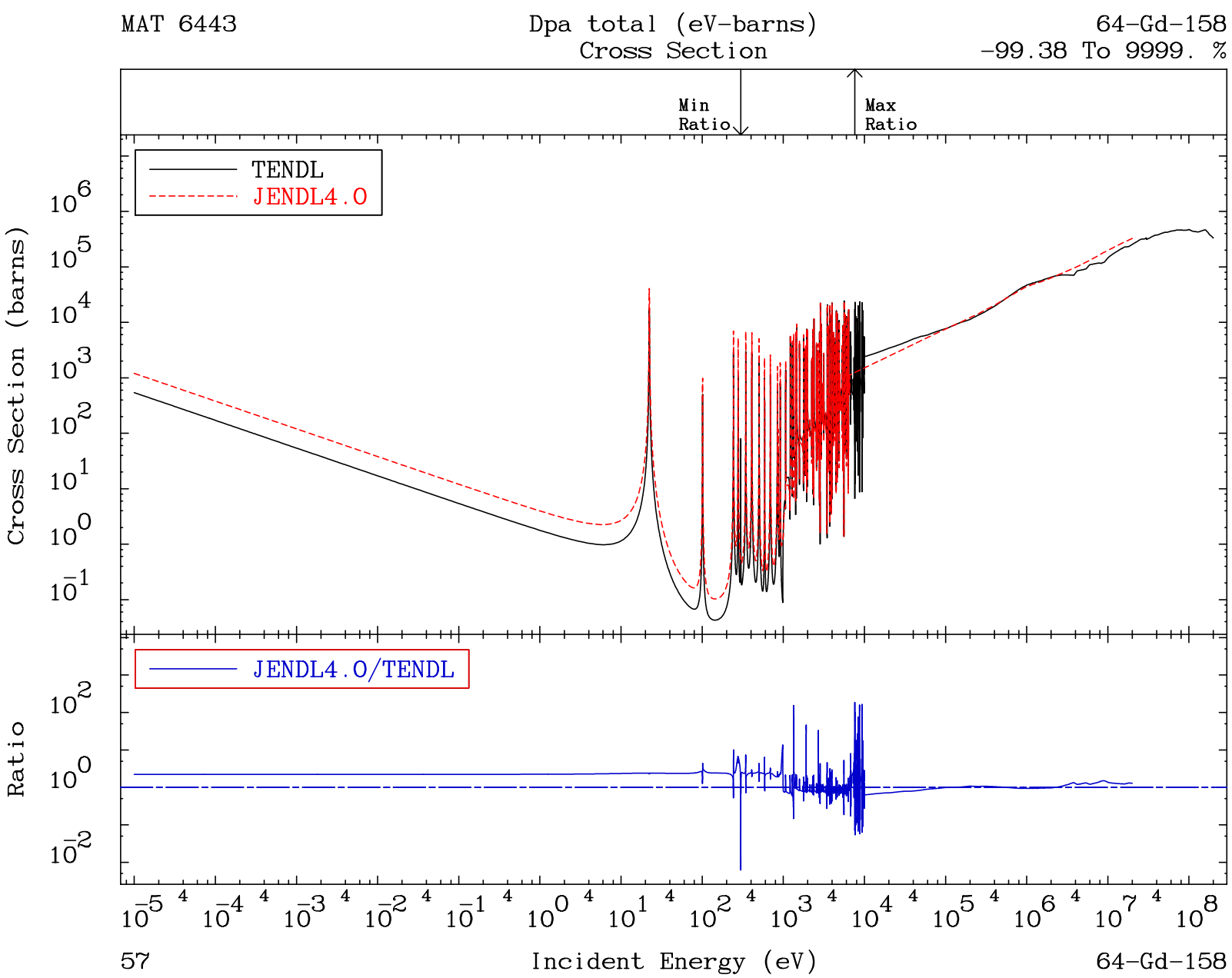

MAT 6443
Kerma inelastic (mt51-91)
Cross Section
64-Gd-158
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 80.021 keV
JENDL4.0 Threshold 80.021 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
52
64-Gd-158

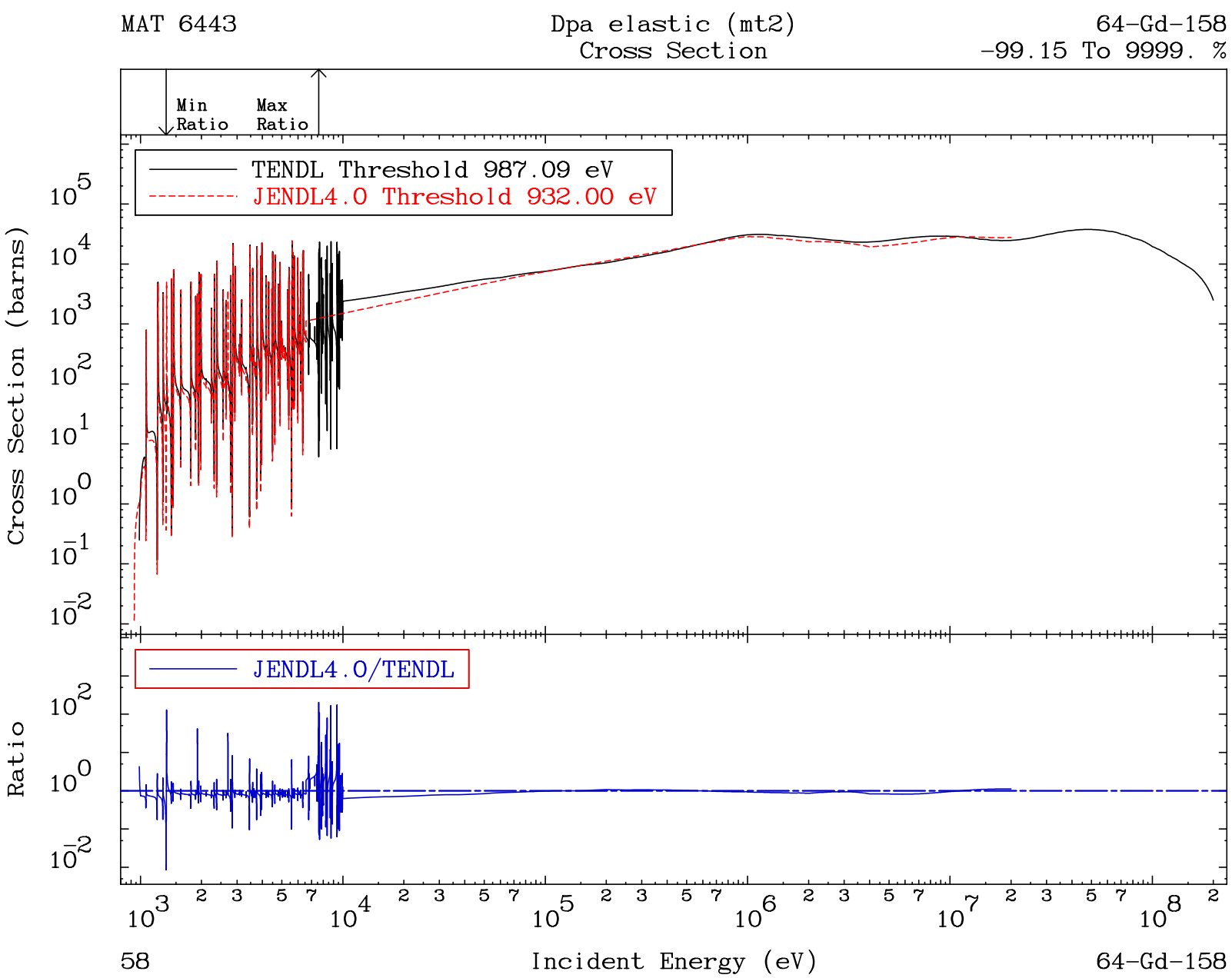

MAT 6443
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
64-Gd-158
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^3
10^0
10^-3
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
53
Incident Energy (eV)
64-Gd-158

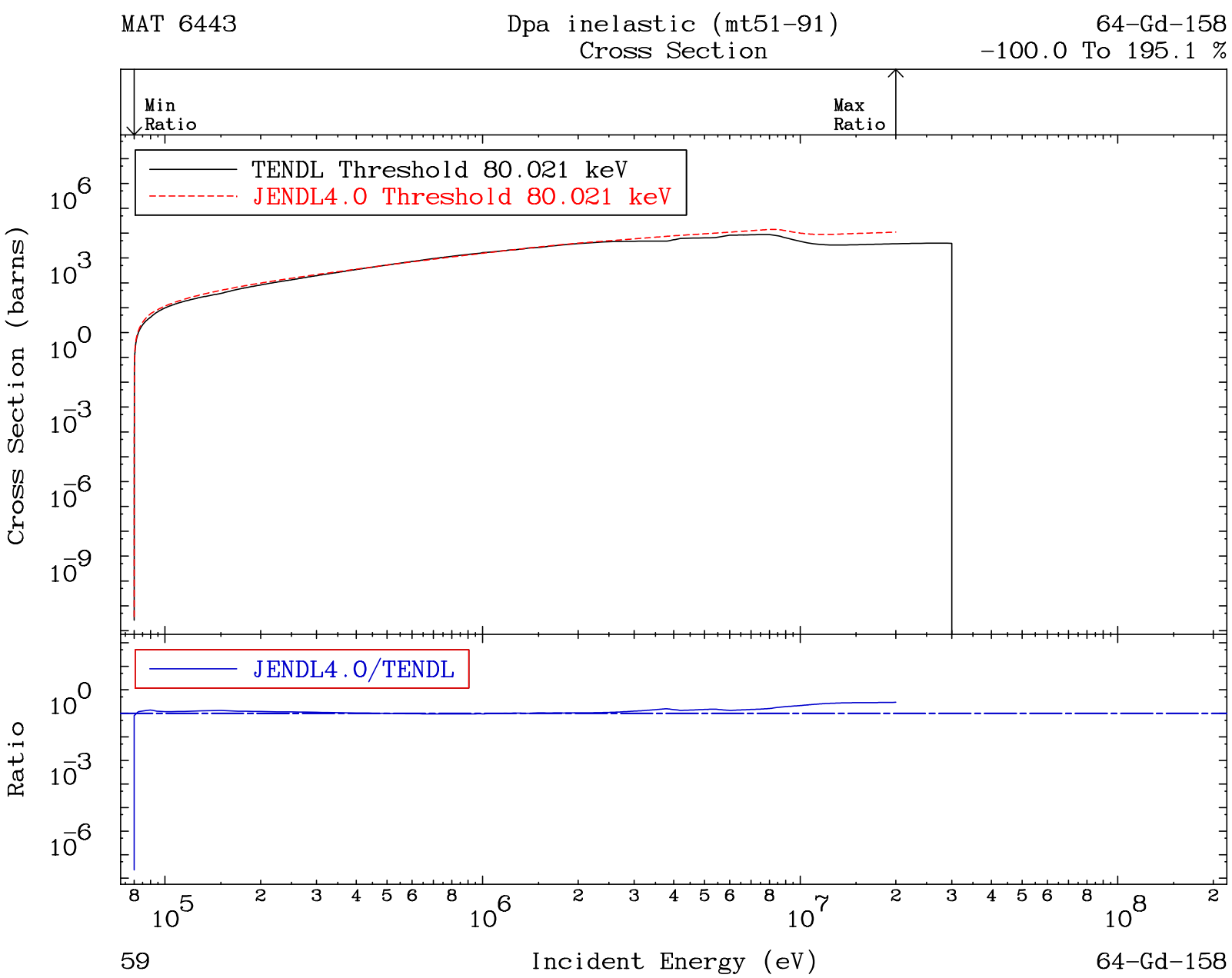

MAT 6443
Kerma capture (mt102)
Cross Section
64-Gd-158
-99.53 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
54
64-Gd-158

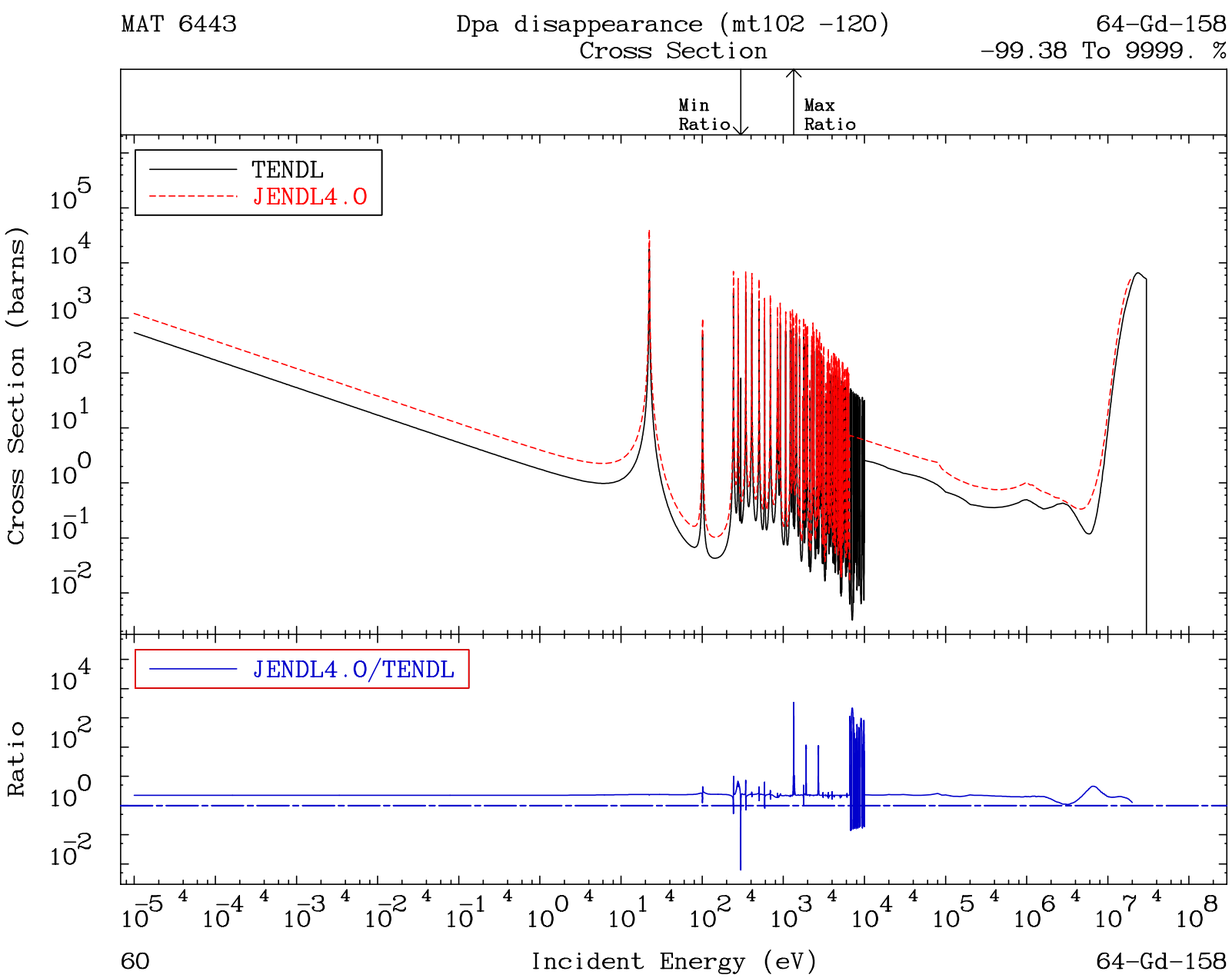

MAT 6443
Total photon (eV-barns)
Cross Section
64-Gd-158
-99.72 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
55
64-Gd-158


MAT 6443
Total kinematic kerma (high limit)
Cross Section
64-Gd-158
-94.63 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
56
64-Gd-158


MAT 6443
Dpa total (eV-barns)
Cross Section
64-Gd-158
-99.38 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
57
64-Gd-158


MAT 6443
Dpa elastic (mt2)
Cross Section
64-Gd-158
-99.15 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 987.09 eV
JENDL4.0 Threshold 932.00 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
58
64-Gd-158


MAT 6443
Dpa inelastic (mt51-91)
Cross Section
64-Gd-158
-100.0 To 195.1 %
Min Ratio
Max Ratio
TENDL Threshold 80.021 keV
JENDL4.0 Threshold 80.021 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
59
64-Gd-158


MAT 6443
Dpa disappearance (mt102 -120)
Cross Section
64-Gd-158
-99.38 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
60
64-Gd-158