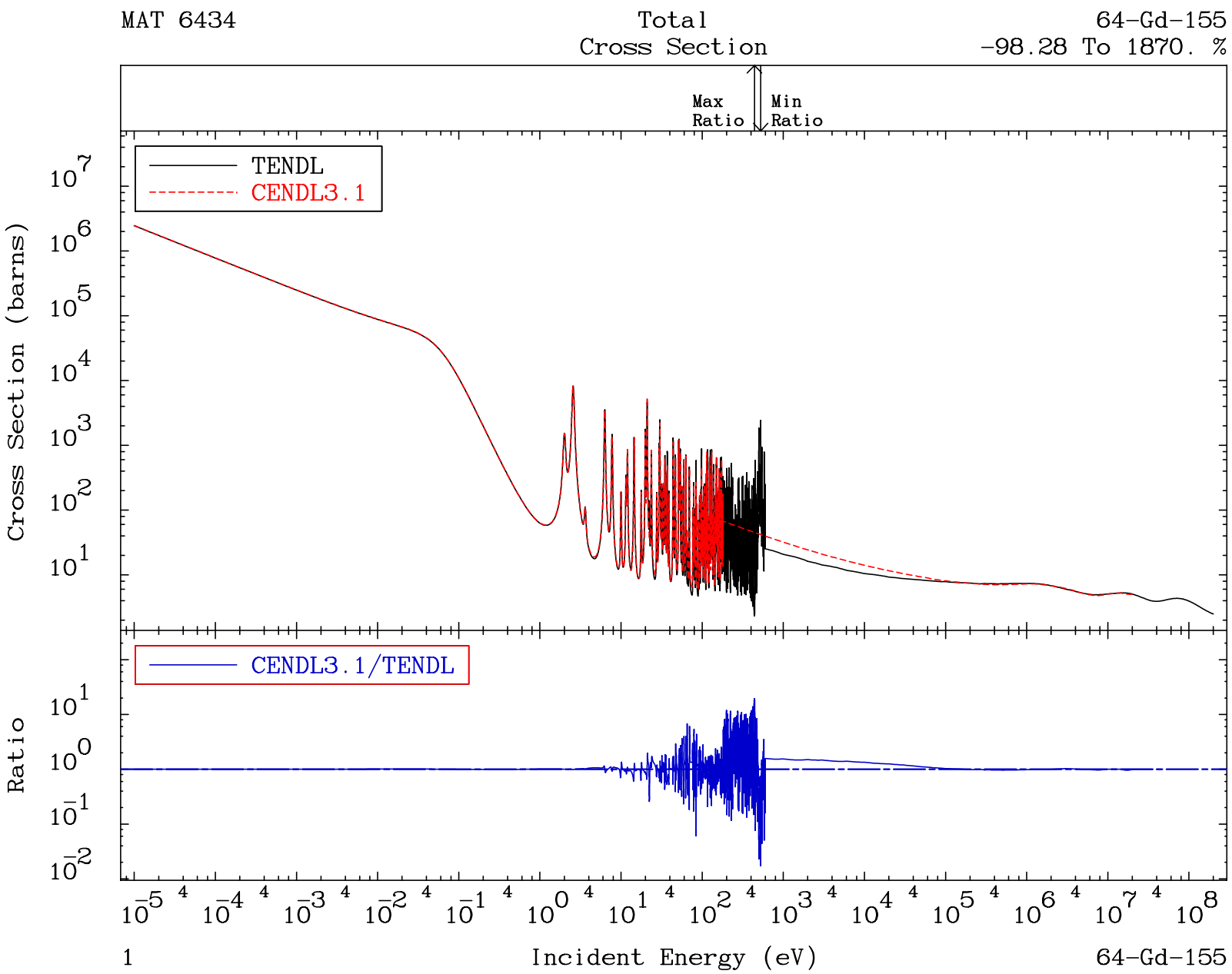
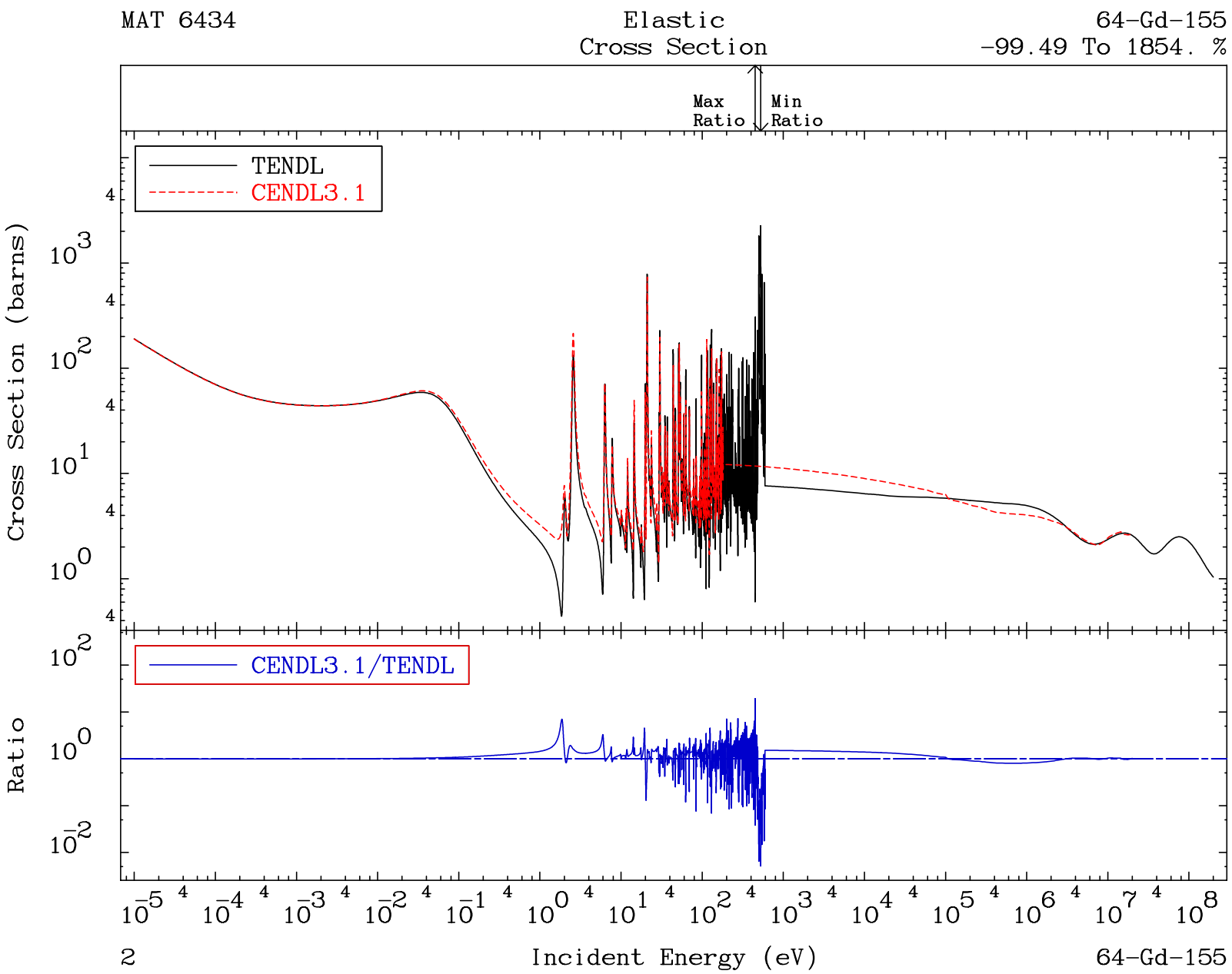
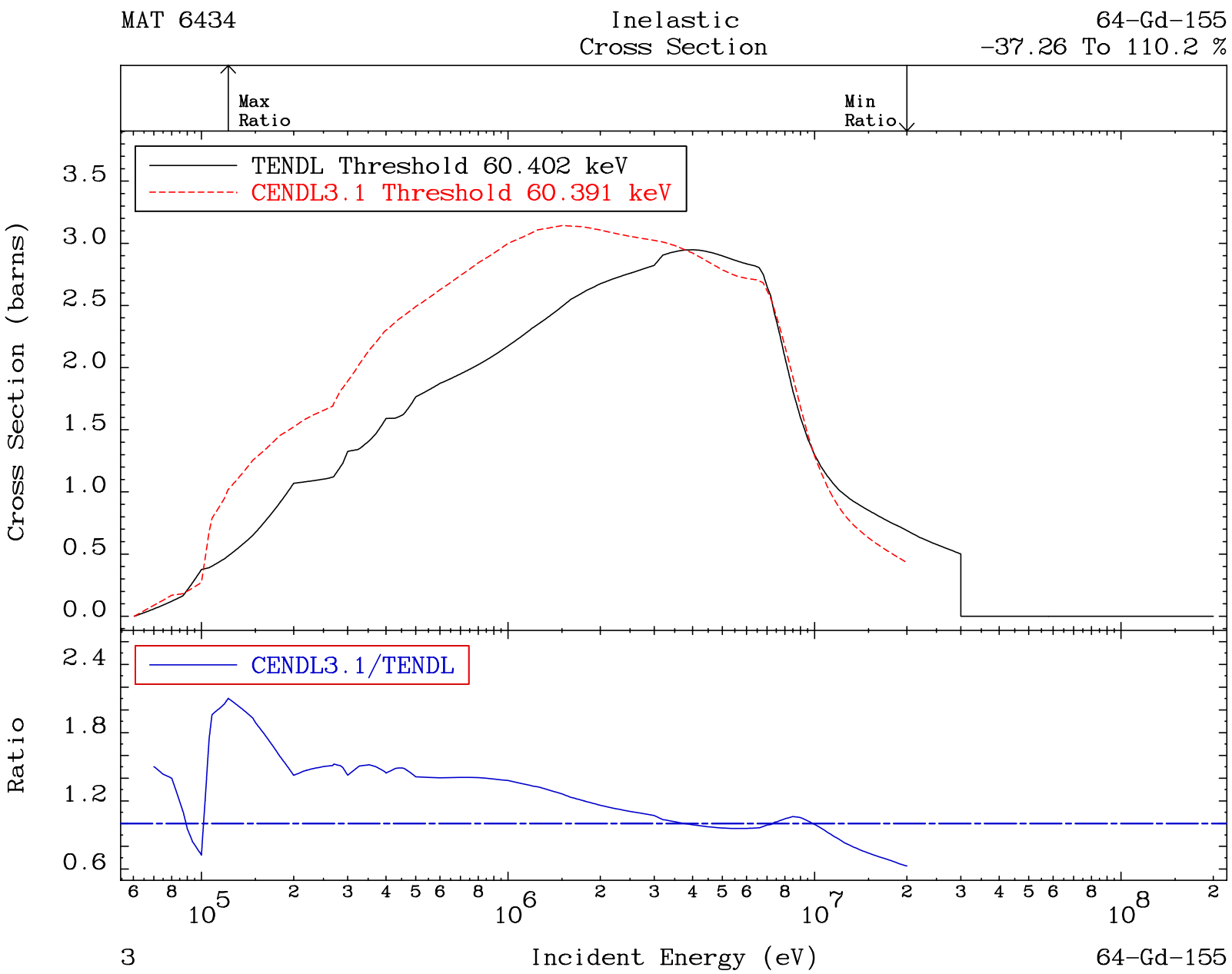
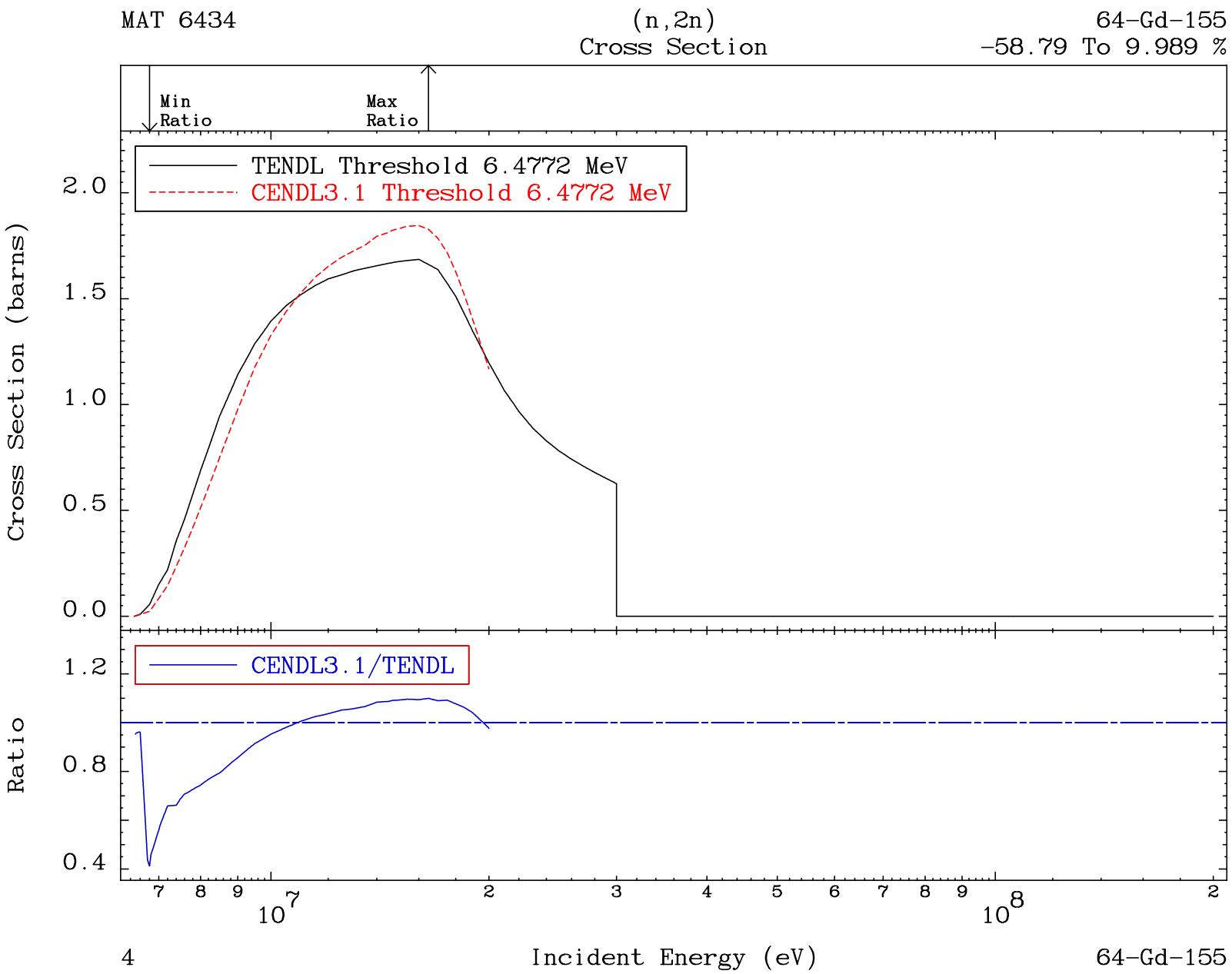
Program Complot
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

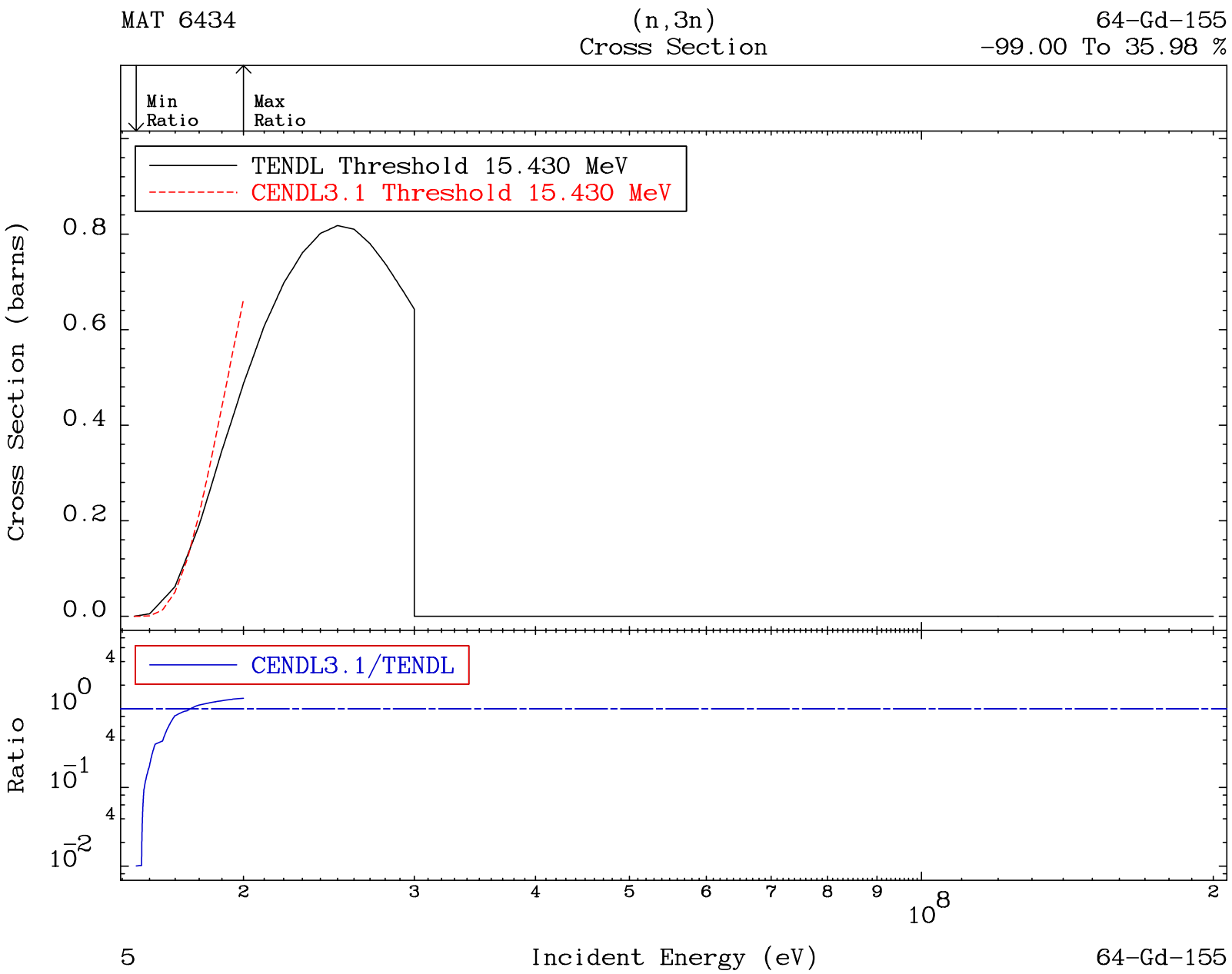
Press Mouse Button to Start

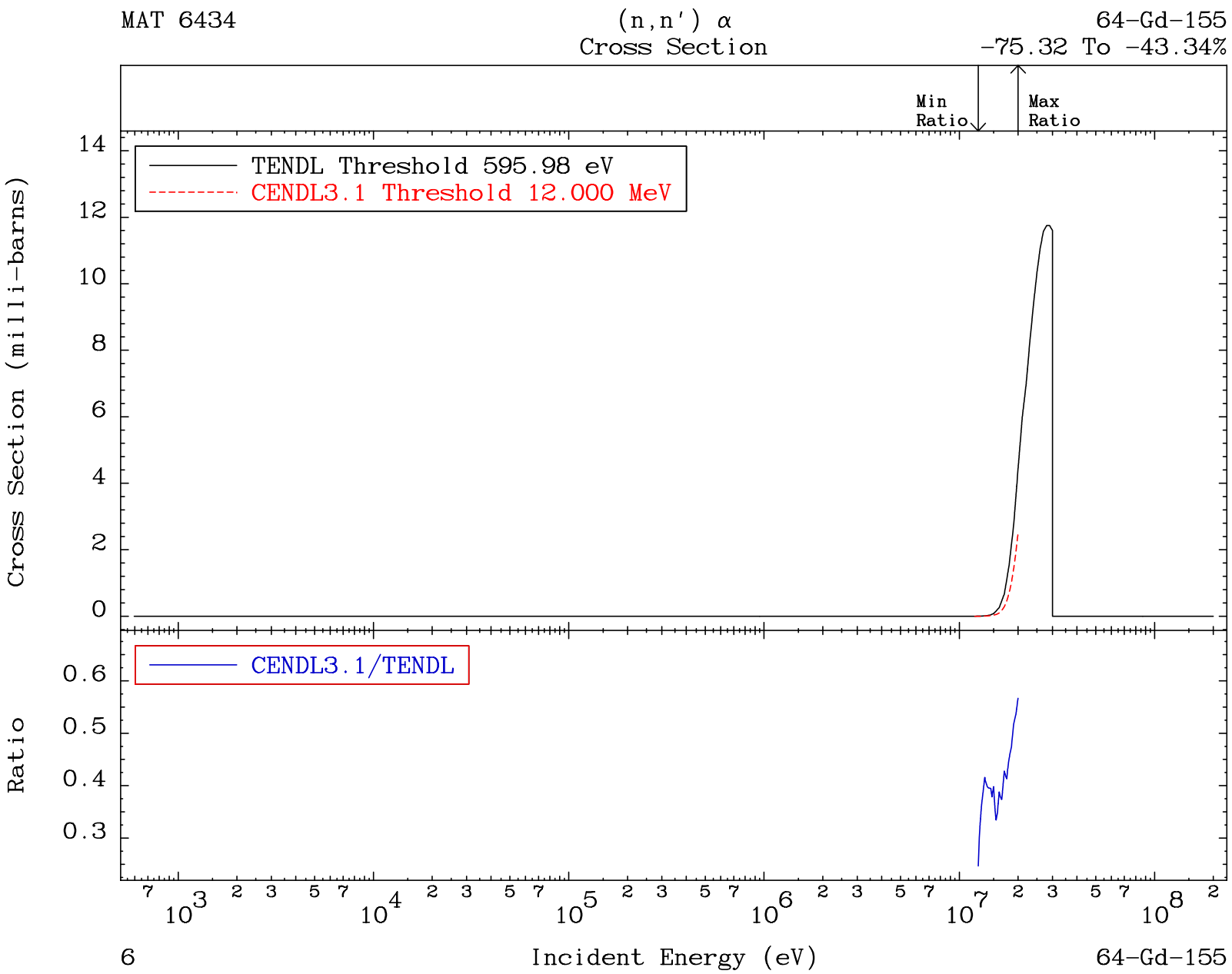

MAT 6434
Total
Cross Section
64-Gd-155
-98.28 To 1870. %
Max
Ratio
Min
Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
1
64-Gd-155

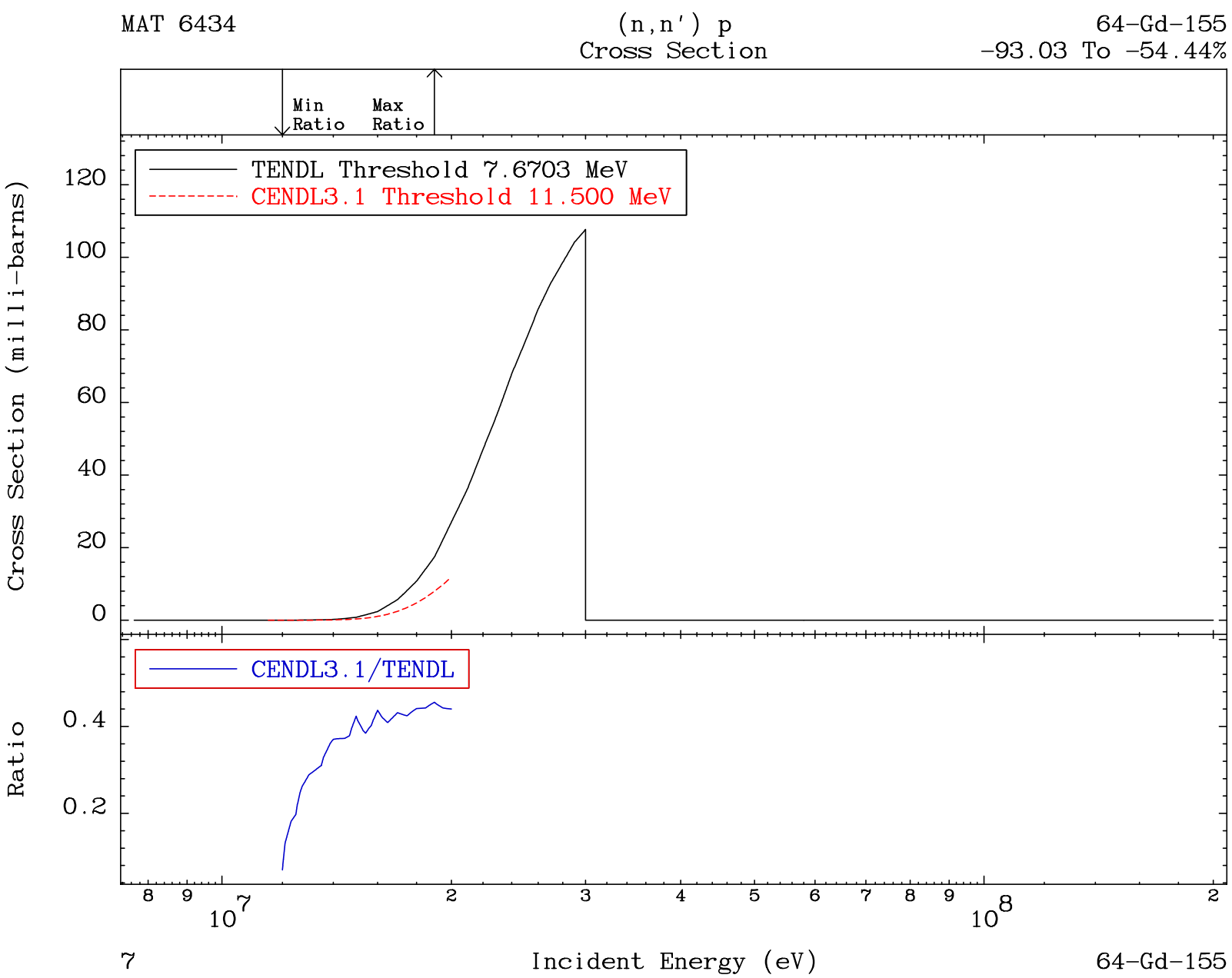

MAT 6434
Elastic
Cross Section
64-Gd-155
-99.49 To 1854. %
Max
Ratio
Min
Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
64-Gd-155
2

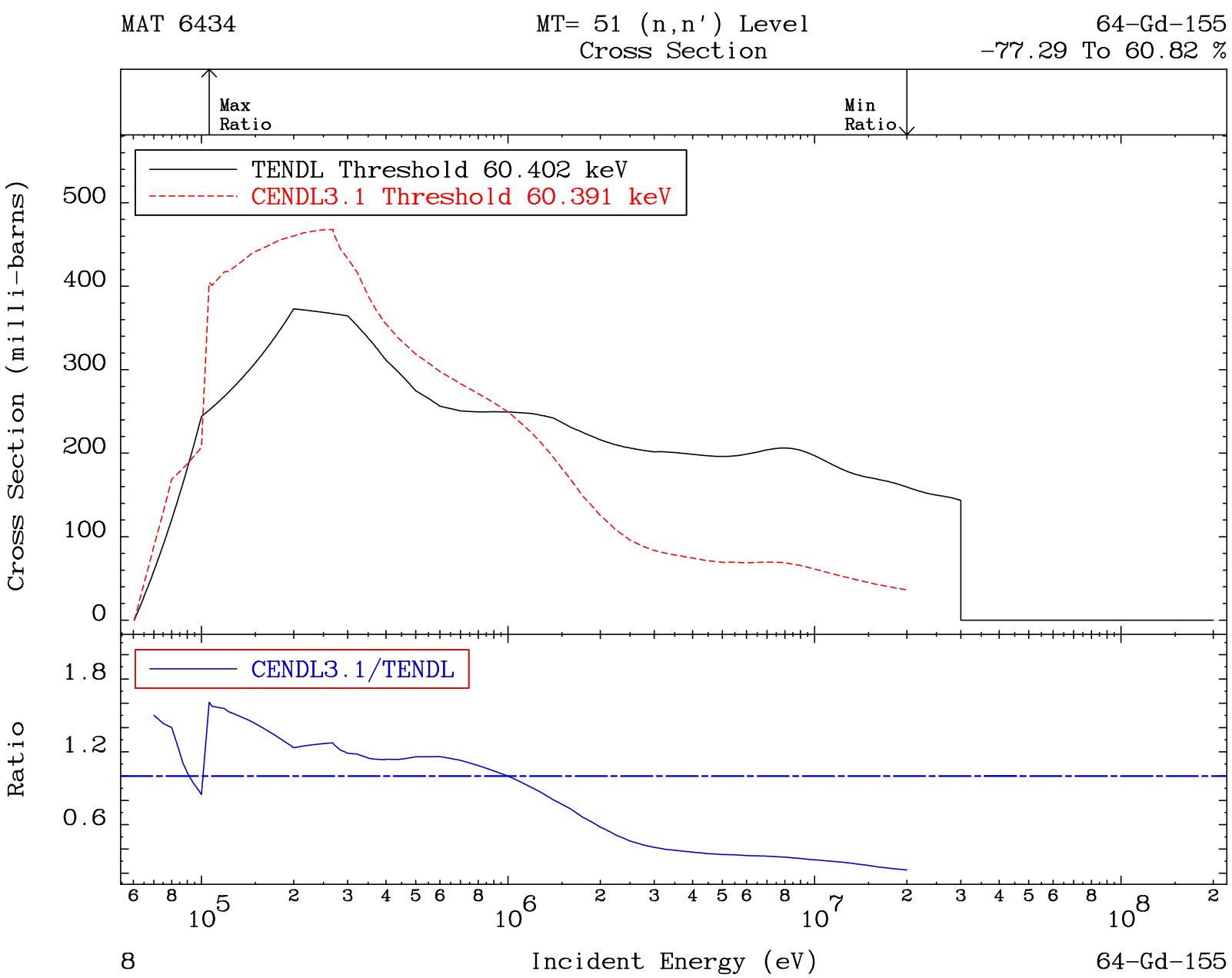

MAT 6434
Inelastic
Cross Section
64-Gd-155
-37.26 To 110.2 %
Max
Ratio
Min
Ratio
TENDL Threshold 60.402 keV
CENDL3.1 Threshold 60.391 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
2.4
1.8
1.2
0.6
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
64-Gd-155

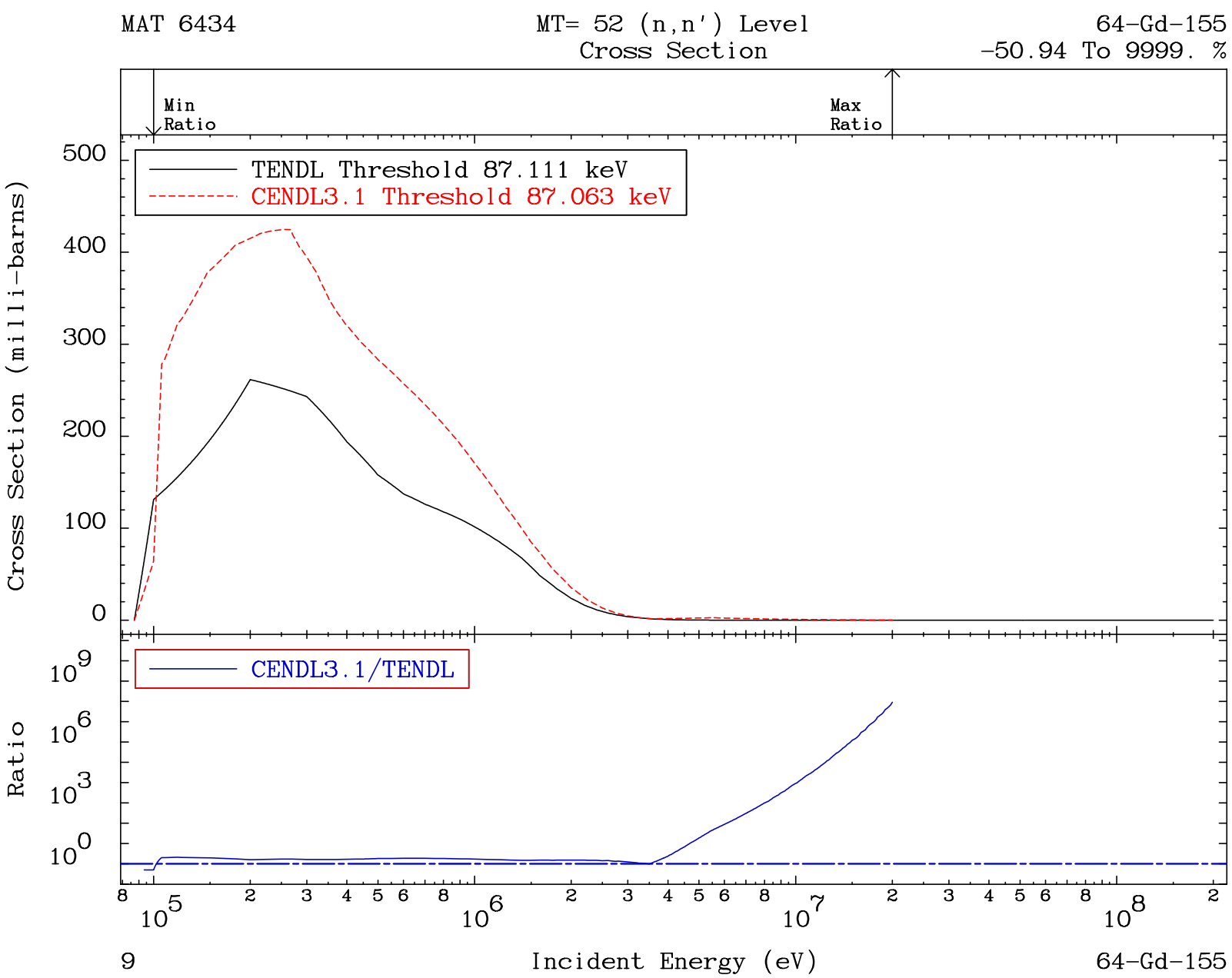

MAT 6434
(n,2n)
Cross Section
64-Gd-155
-58.79 To 9.989 %
Min Ratio
Max Ratio
TENDL Threshold 6.4772 MeV
CENDL3.1 Threshold 6.4772 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
1.2
0.8
0.4
7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
4
Incident Energy (eV)
64-Gd-155

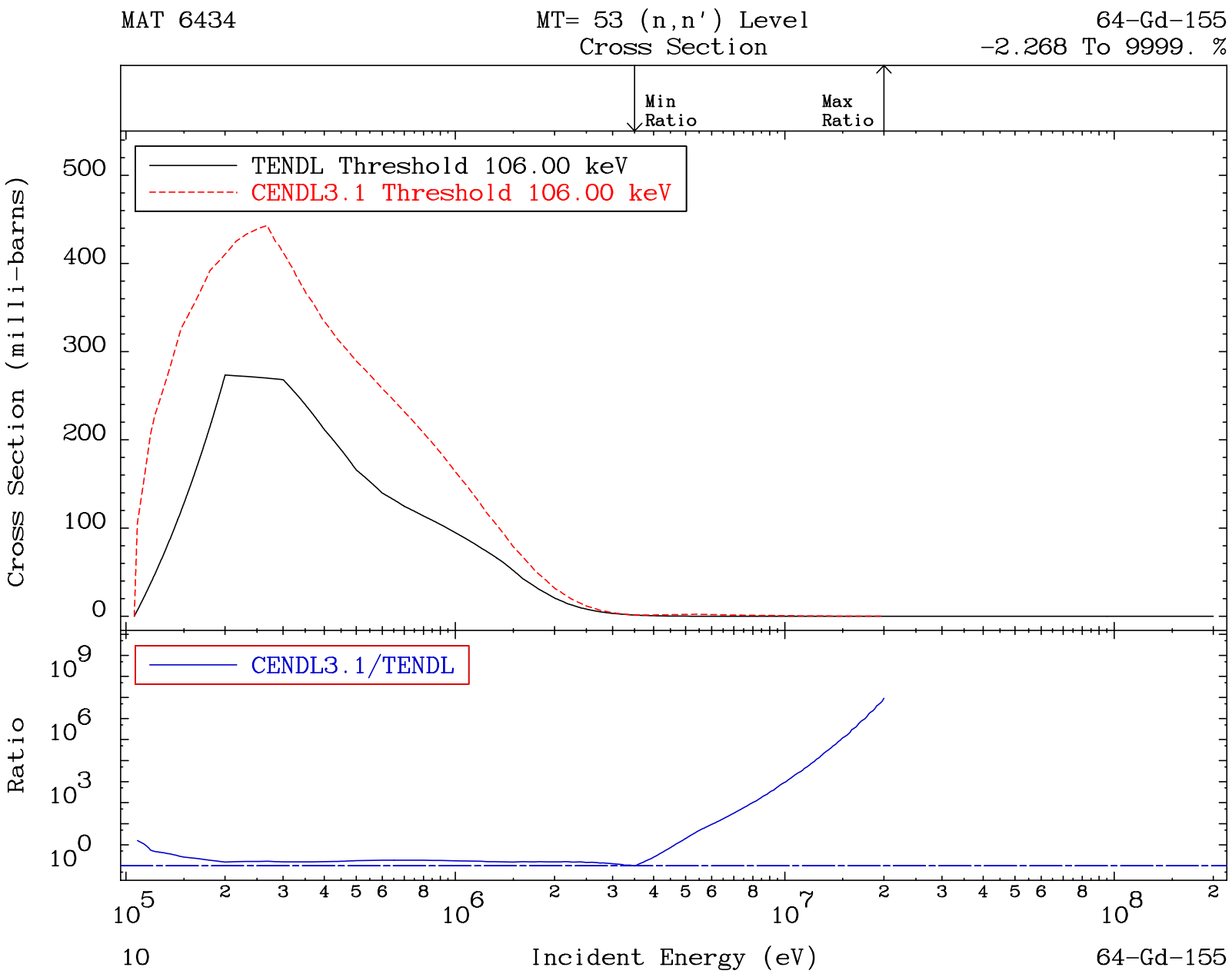

MAT 6434
(n,3n)
Cross Section
64-Gd-155
-99.00 To 35.98 %
Min Ratio
Max Ratio
TENDL Threshold 15.430 MeV
CENDL3.1 Threshold 15.430 MeV
Cross Section (barns)
0.8
0.6
0.4
0.2
0.0
CENDL3.1/TENDL
Ratio
10^0
10^-1
10^-2
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
64-Gd-155

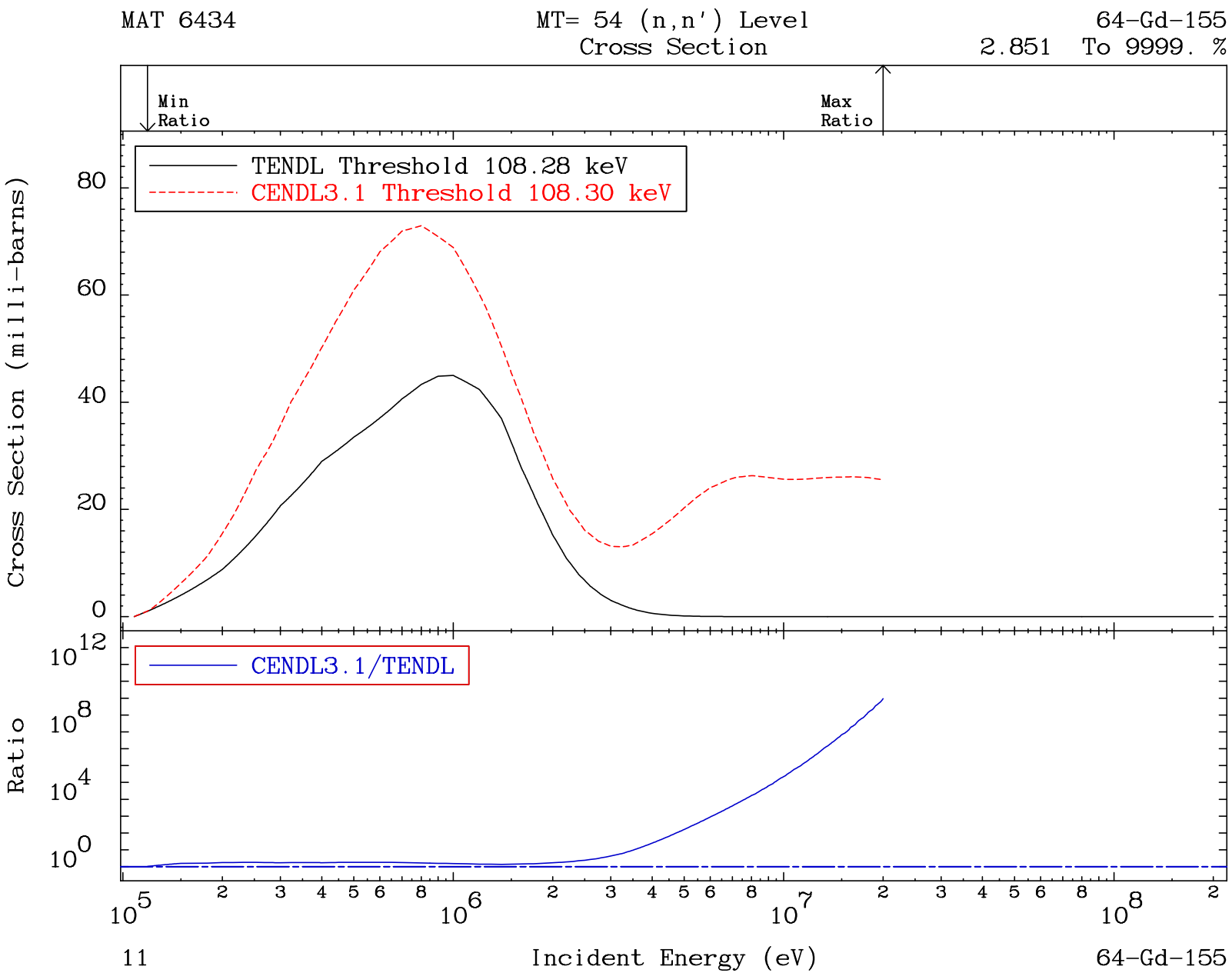

MAT 6434
(n,n') α
Cross Section
64-Gd-155
-75.32 To -43.34%
Min Ratio
Max Ratio
TENDL Threshold 595.98 eV
CENDL3.1 Threshold 12.000 MeV
Cross Section (milli-barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
6
64-Gd-155

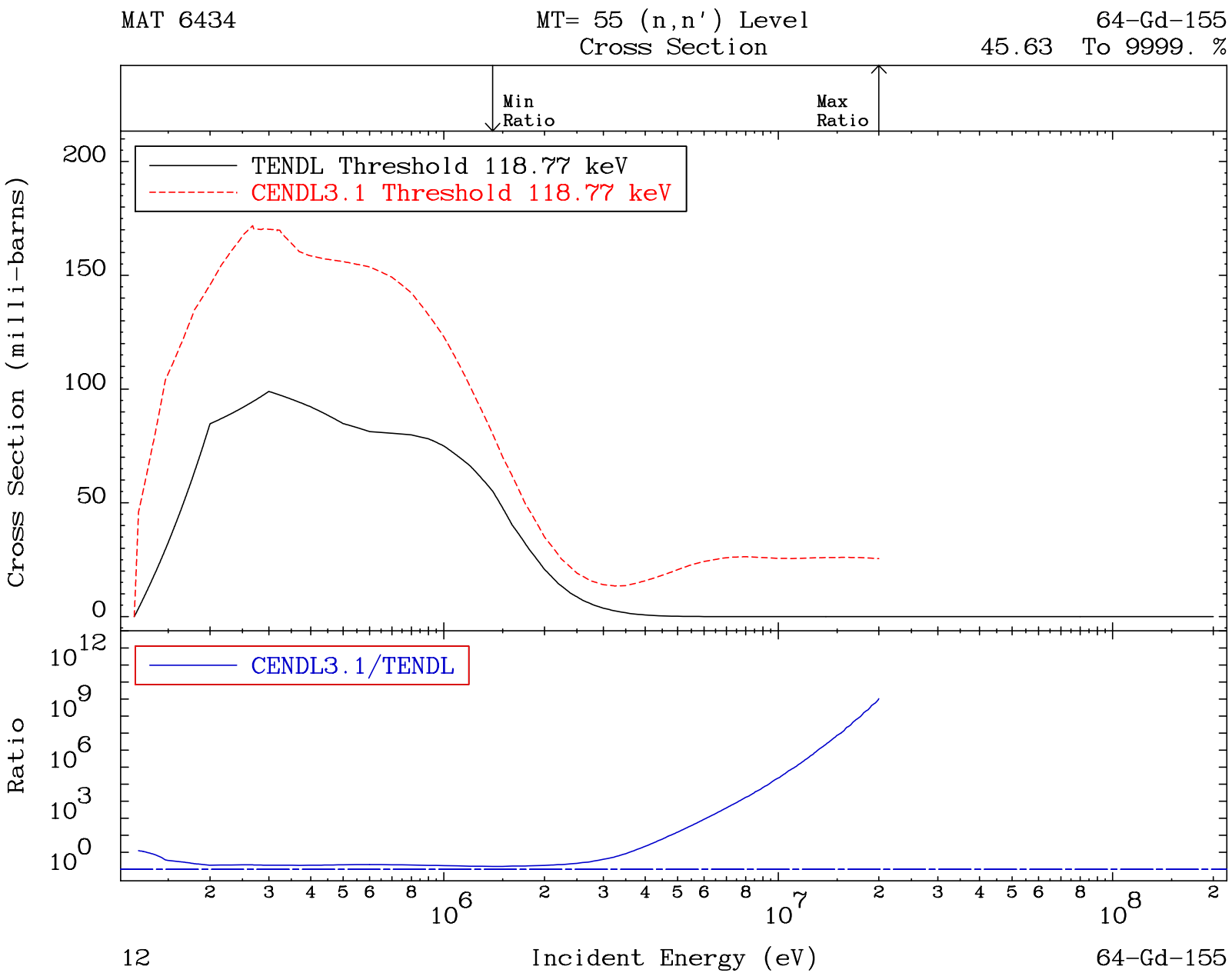

MAT 6434
(n,n') p
Cross Section
64-Gd-155
-93.03 To -54.44%
Min Ratio
Max Ratio
TENDL Threshold 7.6703 MeV
CENDL3.1 Threshold 11.500 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
CENDL3.1/TENDL
Ratio
0.4
0.2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
64-Gd-155

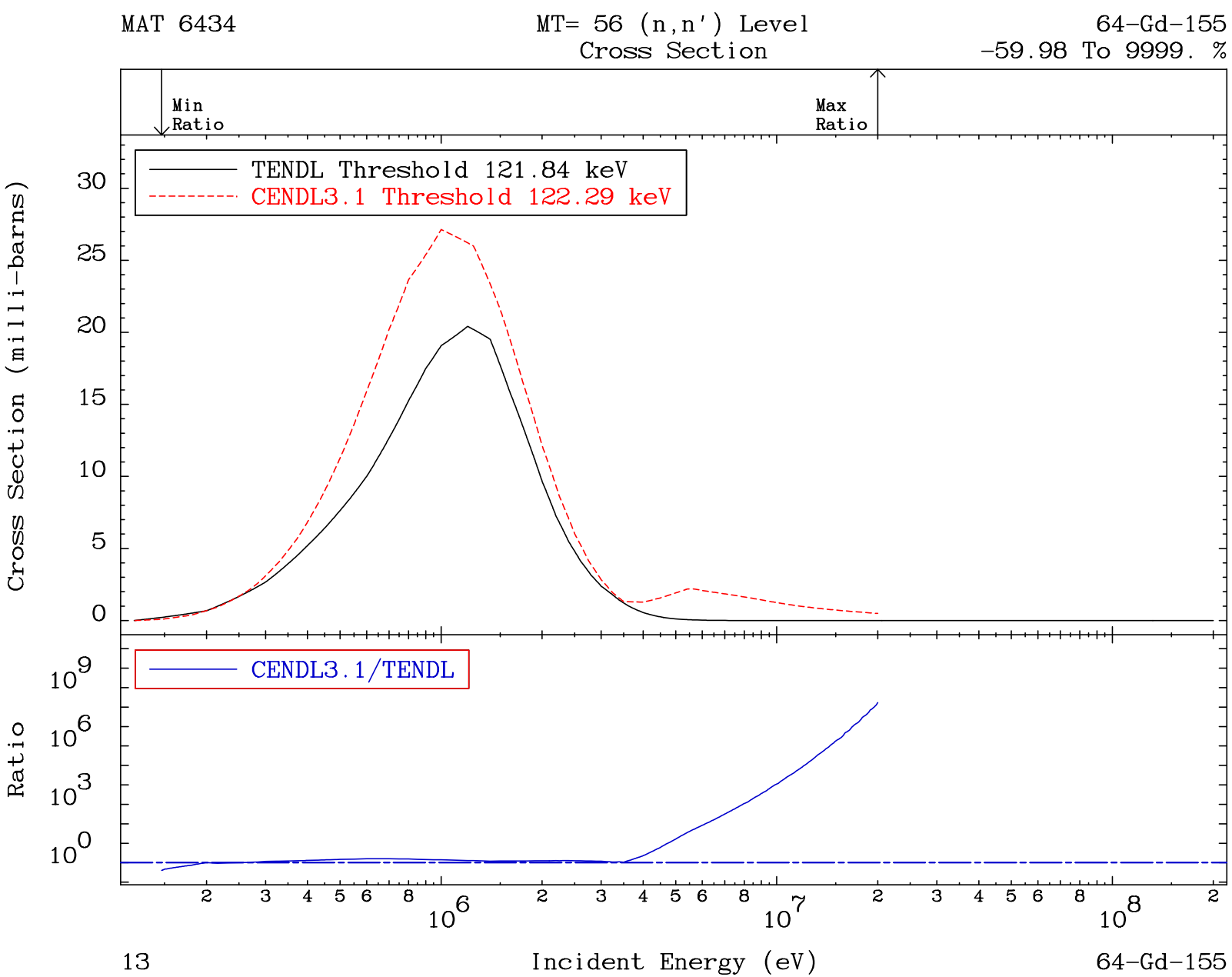

MAT 6434
MT= 51 (n,n') Level
Cross Section
64-Gd-155
-77.29 To 60.82 %
Max
Ratio
Min
Ratio
TENDL Threshold 60.402 keV
CENDL3.1 Threshold 60.391 keV
Cross Section (milli-barns)
500
400
300
200
100
0
CENDL3.1/TENDL
Ratio
1.8
1.2
0.6
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
64-Gd-155

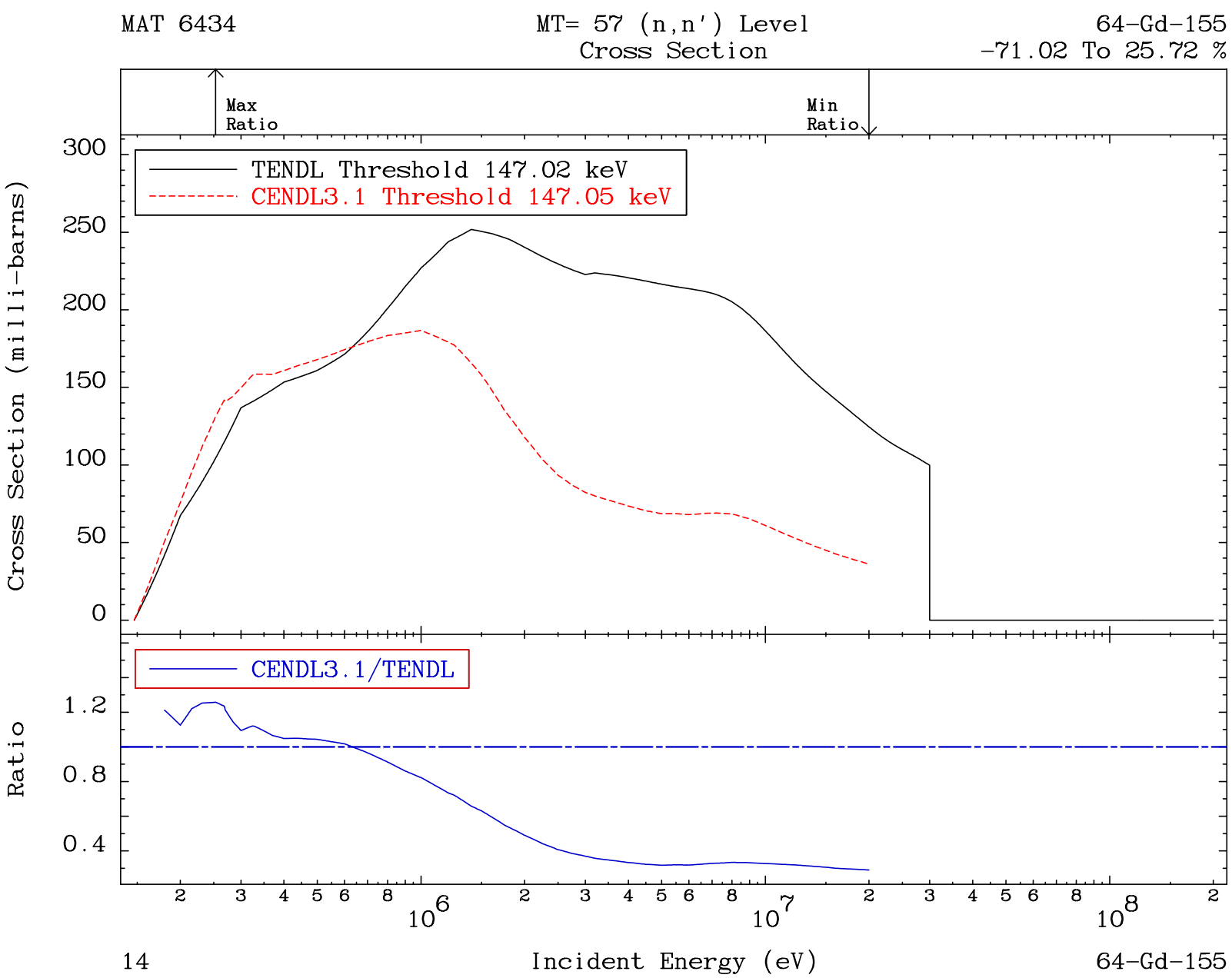

MAT 6434
MT= 52 (n,n') Level
Cross Section
64-Gd-155
-50.94 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 87.111 keV
CENDL3.1 Threshold 87.063 keV
Cross Section (milli-barns)
500
400
300
200
100
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
9
Incident Energy (eV)
64-Gd-155

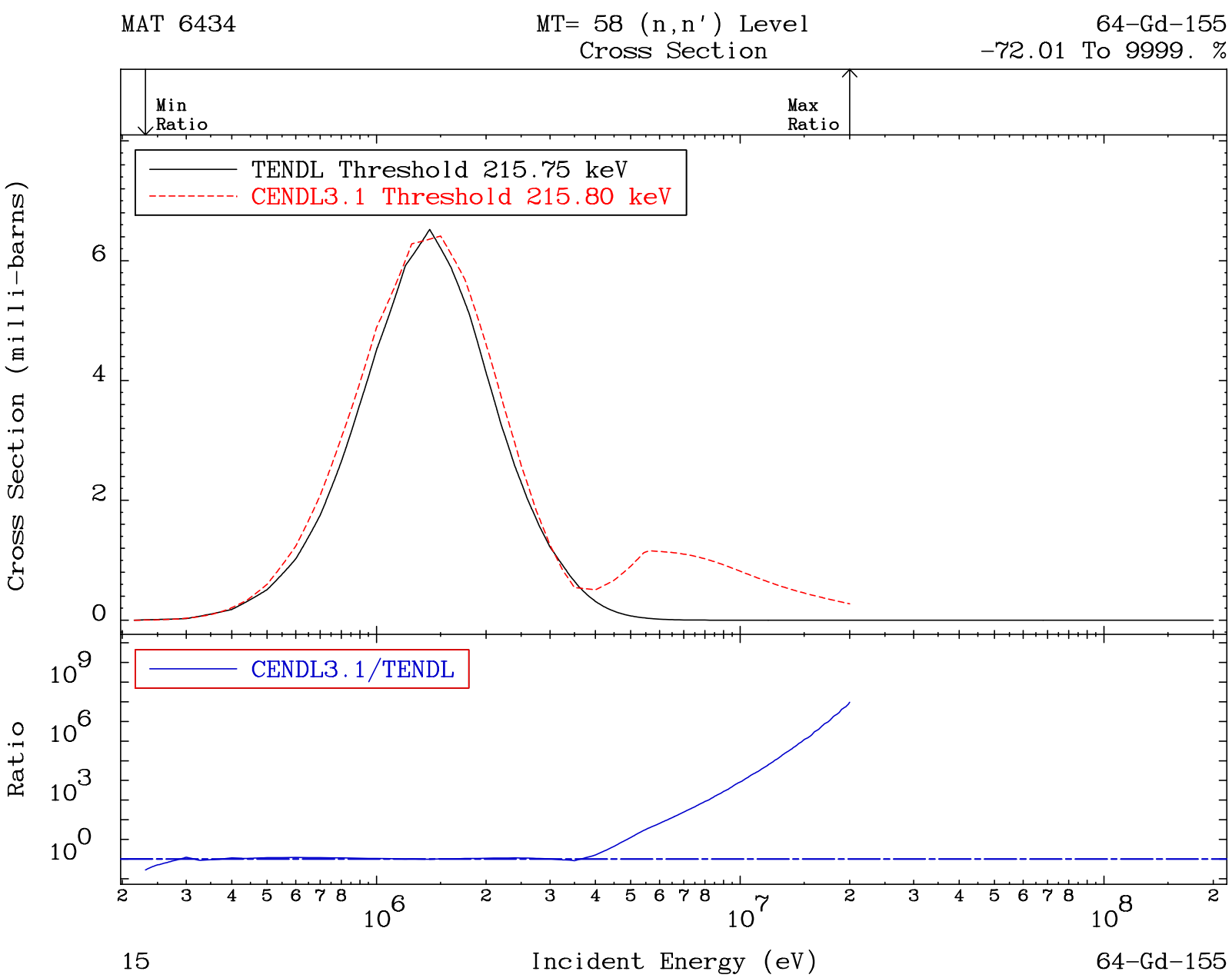

MAT 6434
MT= 53 (n,n') Level
Cross Section
64-Gd-155
-2.268 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 106.00 keV
CENDL3.1 Threshold 106.00 keV
Cross Section (milli-barns)
500
400
300
200
100
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
10
Incident Energy (eV)
64-Gd-155

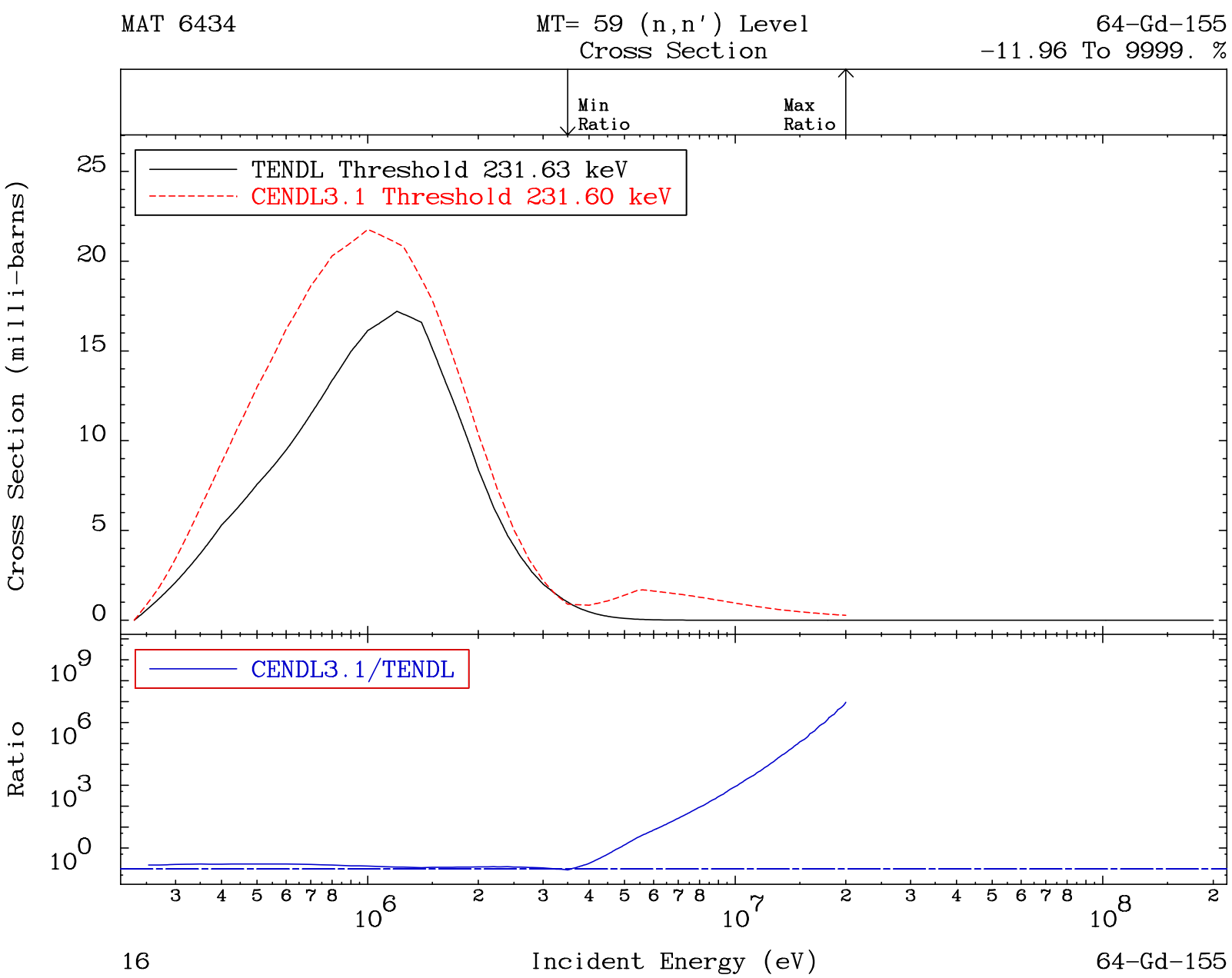

MAT 6434
MT= 54 (n,n') Level
Cross Section
64-Gd-155
2.851 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 108.28 keV
CENDL3.1 Threshold 108.30 keV
Cross Section (milli-barns)
0
20
40
60
80
CENDL3.1/TENDL
Ratio
10^{0}
10^{4}
10^{8}
10^{12}
10^{5}
10^{6}
10^{7}
10^{8}
Incident Energy (eV)
11
64-Gd-155

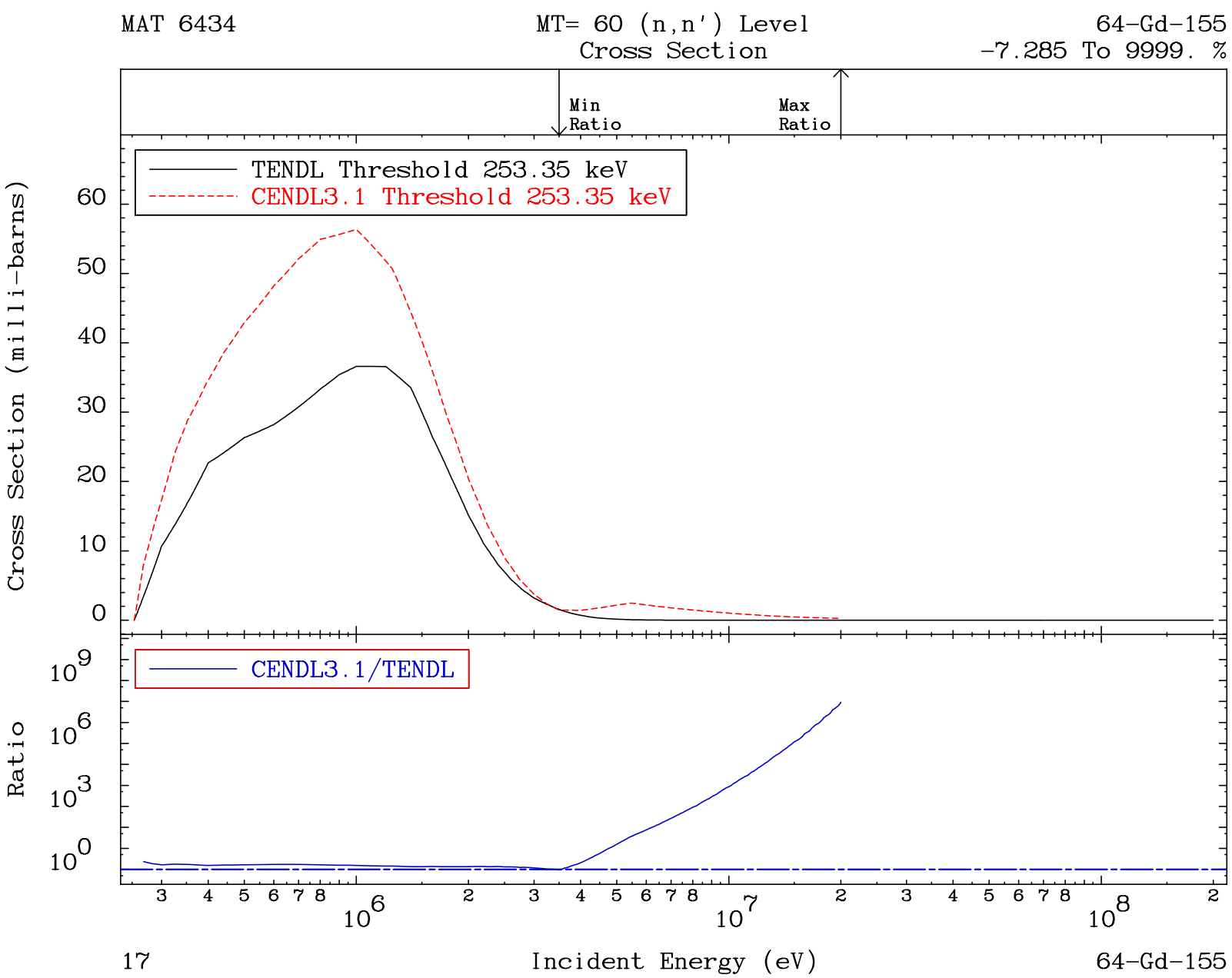

MAT 6434
MT= 55 (n,n') Level
Cross Section
64-Gd-155
45.63 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 118.77 keV
CENDL3.1 Threshold 118.77 keV
Cross Section (milli-barns)
200
150
100
50
0
CENDL3.1/TENDL
Ratio
10^12
10^9
10^6
10^3
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
64-Gd-155

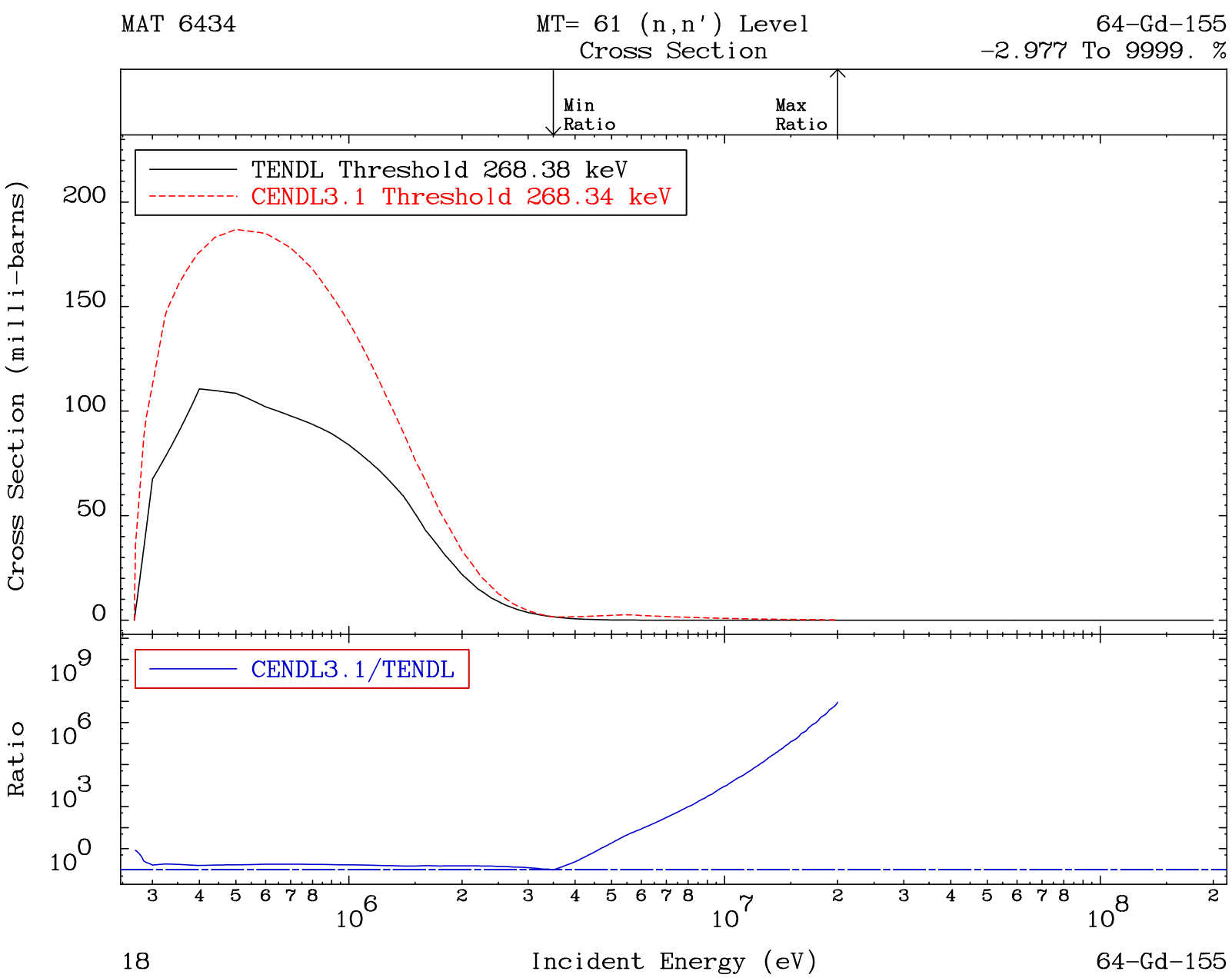

MAT 6434
MT= 56 (n,n') Level Cross Section
64-Gd-155
-59.98 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 121.84 keV
CENDL3.1 Threshold 122.29 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
64-Gd-155

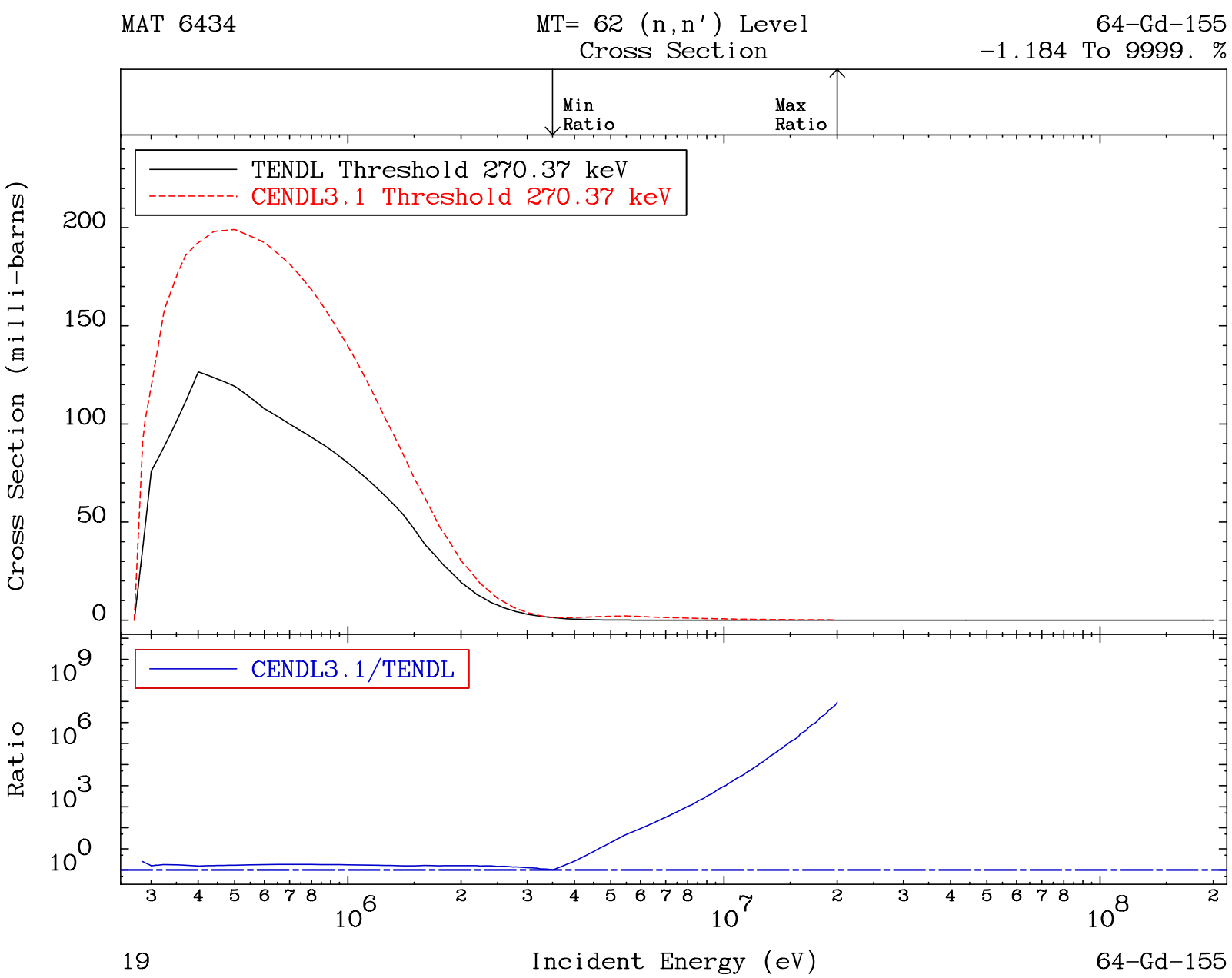

MAT 6434
MT= 57 (n,n') Level
Cross Section
64-Gd-155
-71.02 To 25.72 %
Max
Ratio
Min
Ratio
TENDL Threshold 147.02 keV
CENDL3.1 Threshold 147.05 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
CENDL3.1/TENDL
Ratio
1.2
0.8
0.4
2
3
4
5
6
8
10^6
10^7
10^8
14
Incident Energy (eV)
64-Gd-155

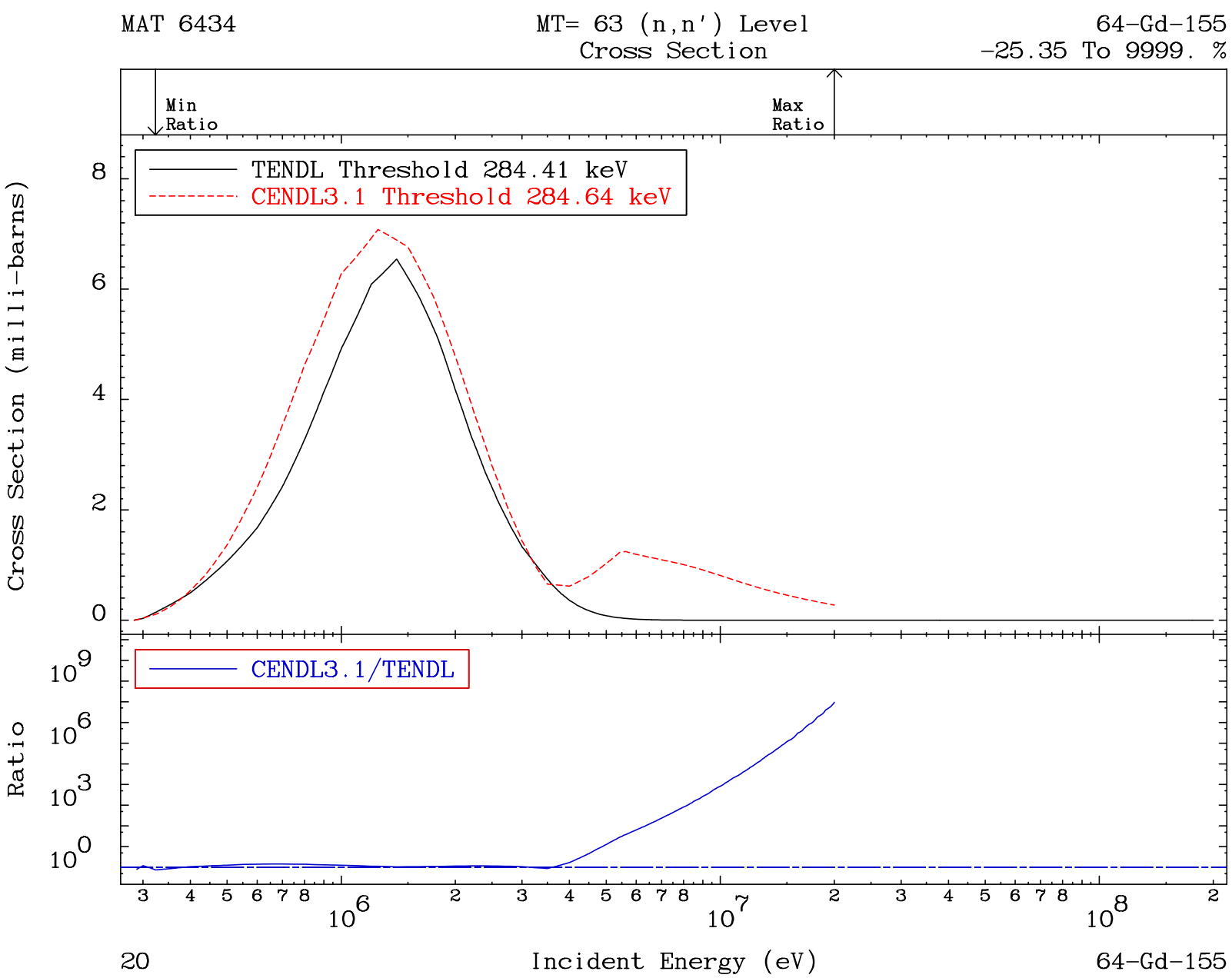

MAT 6434
MT= 58 (n,n') Level
Cross Section
64-Gd-155
-72.01 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 215.75 keV
CENDL3.1 Threshold 215.80 keV
Cross Section (milli-barns)
0
2
4
6
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
64-Gd-155

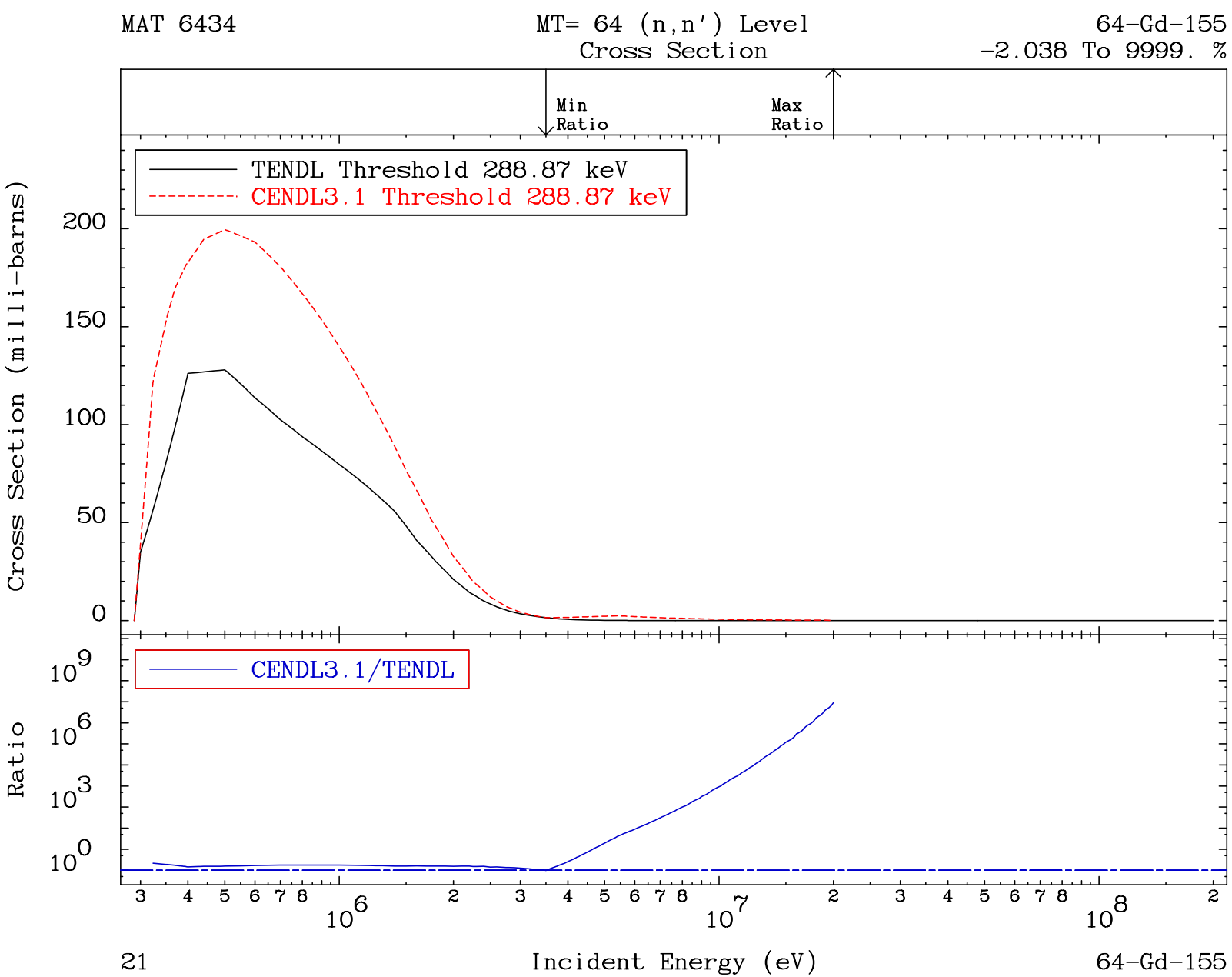

MAT 6434
MT= 59 (n,n') Level
Cross Section
64-Gd-155
-11.96 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 231.63 keV
CENDL3.1 Threshold 231.60 keV
Cross Section (milli-barns)
25
20
15
10
5
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
64-Gd-155

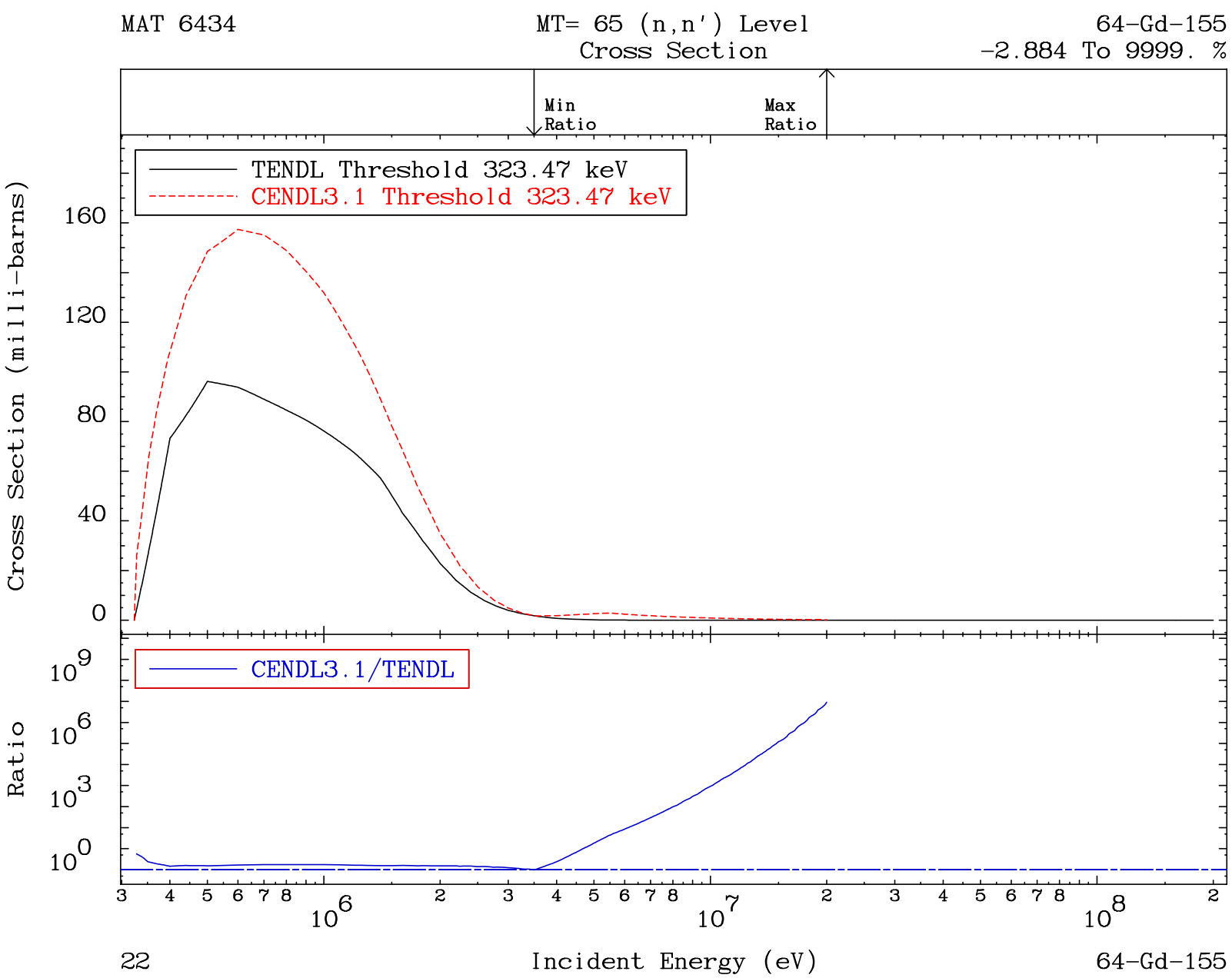

MAT 6434
MT= 60 (n,n') Level
Cross Section
64-Gd-155
-7.285 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 253.35 keV
CENDL3.1 Threshold 253.35 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
64-Gd-155

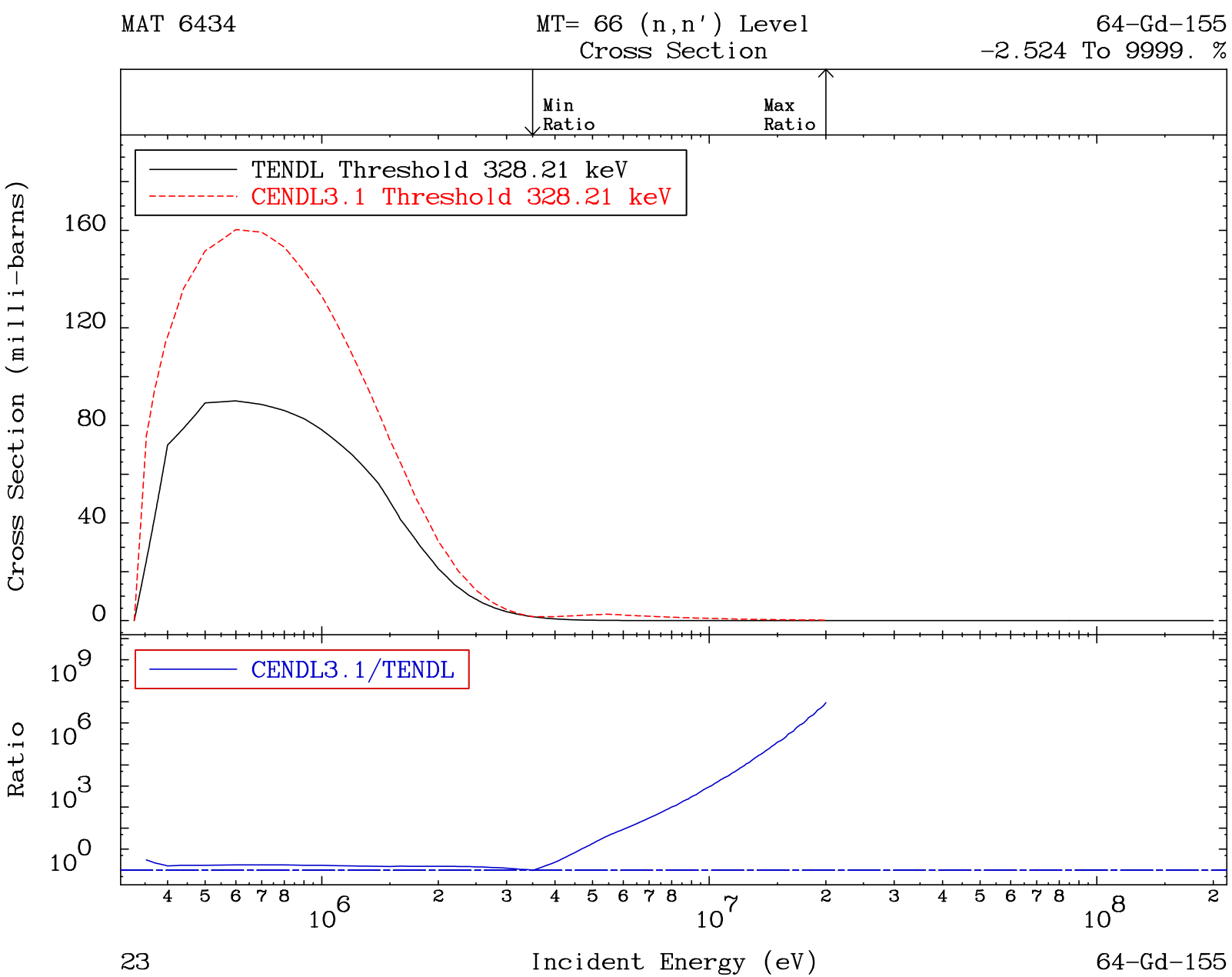

MAT 6434
MT= 61 (n,n') Level
Cross Section
64-Gd-155
-2.977 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 268.38 keV
CENDL3.1 Threshold 268.34 keV
Cross Section (milli-barns)
200
150
100
50
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
64-Gd-155

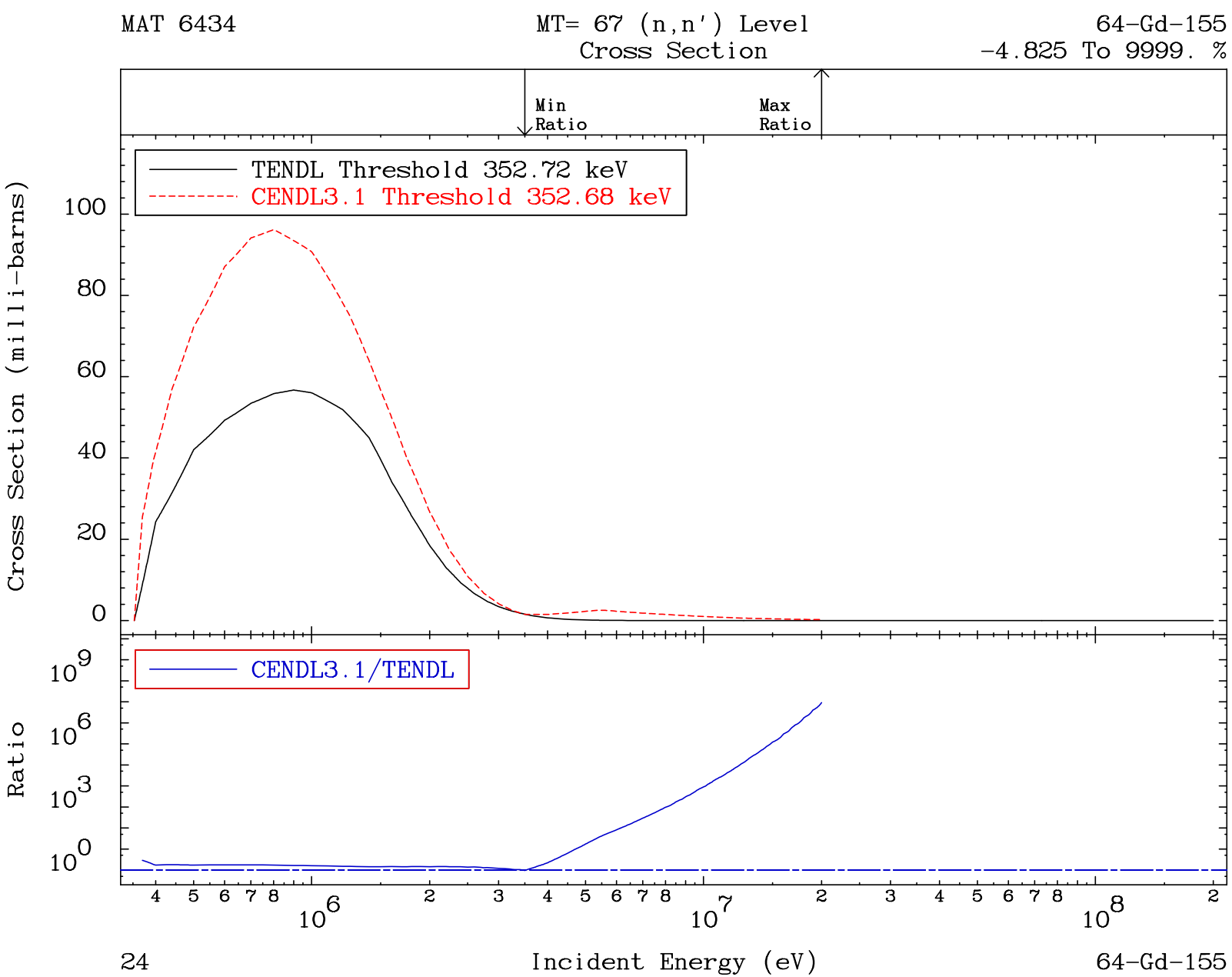

MAT 6434
MT= 62 (n,n') Level
Cross Section
64-Gd-155
-1.184 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 270.37 keV
CENDL3.1 Threshold 270.37 keV
Cross Section (milli-barns)
200
150
100
50
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
64-Gd-155

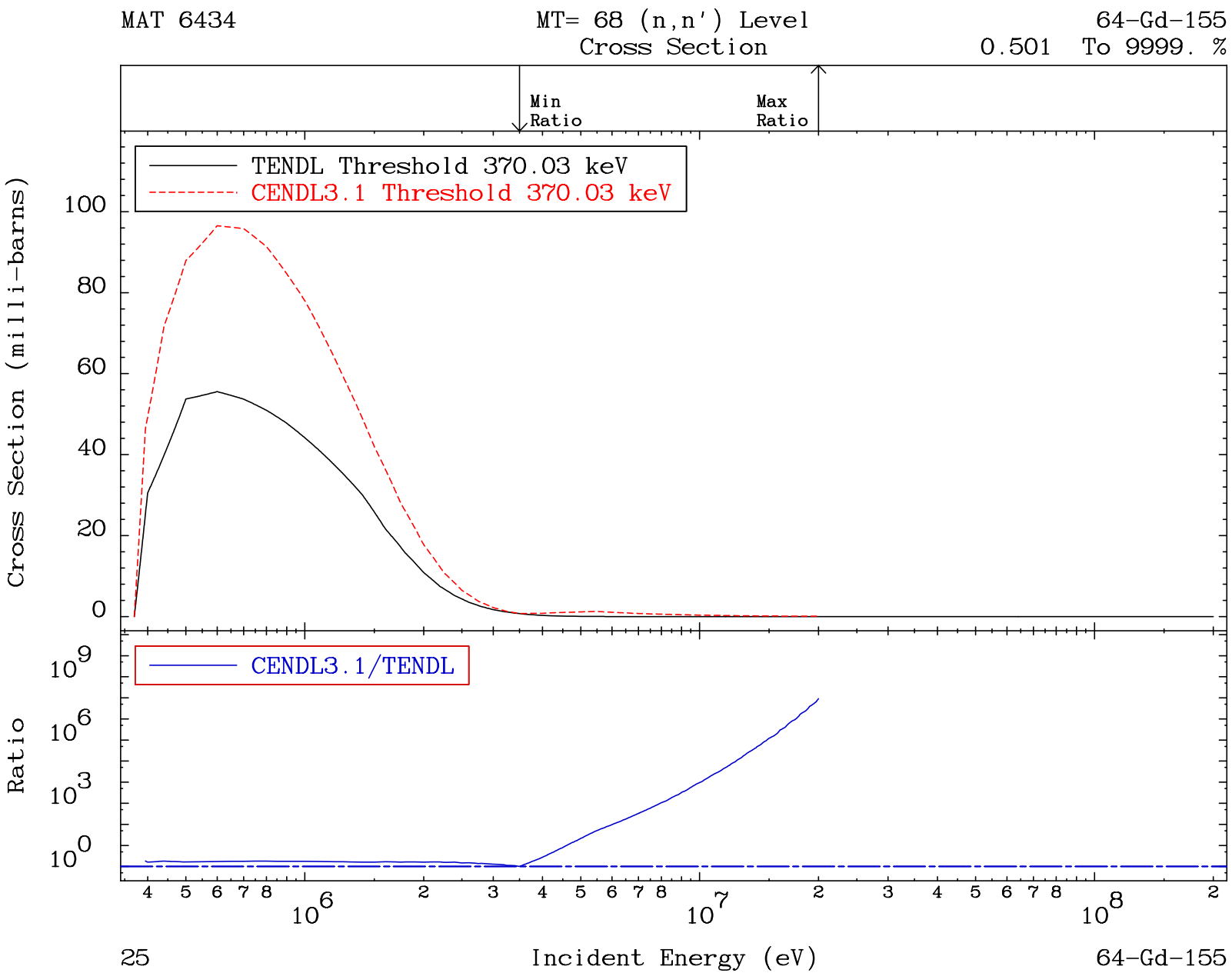

MAT 6434
MT= 63 (n,n') Level
Cross Section
64-Gd-155
-25.35 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 284.41 keV
CENDL3.1 Threshold 284.64 keV
Cross Section (milli-barns)
0
2
4
6
8
CENDL3.1/TENDL
Ratio
10^0
10^3
10^6
10^9
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
64-Gd-155

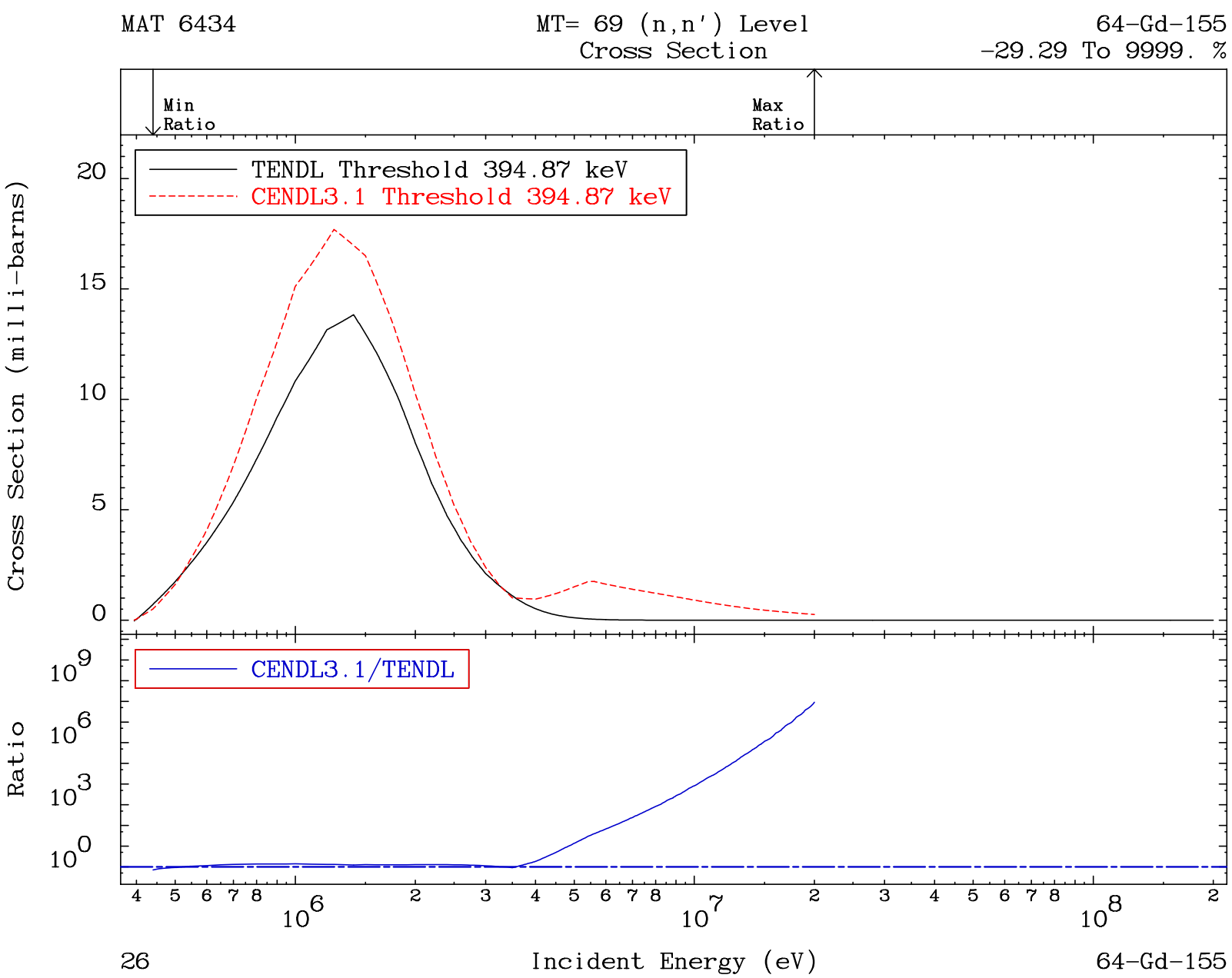

MAT 6434
MT= 64 (n,n') Level
Cross Section
64-Gd-155
-2.038 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 288.87 keV
CENDL3.1 Threshold 288.87 keV
Cross Section (milli-barns)
200
150
100
50
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
64-Gd-155

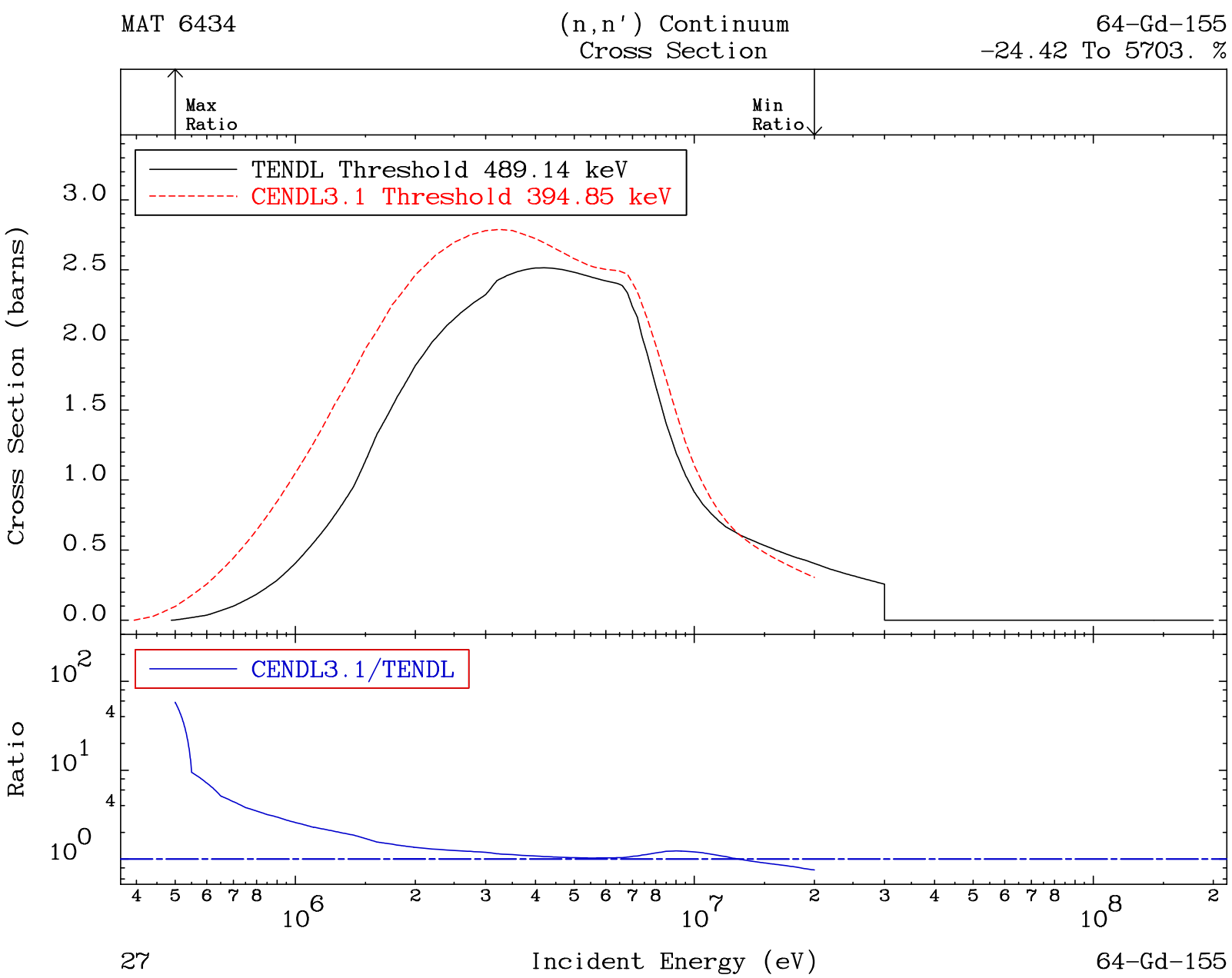

MAT 6434
MT= 65 (n,n') Level
Cross Section
64-Gd-155
-2.884 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 323.47 keV
CENDL3.1 Threshold 323.47 keV
Cross Section (milli-barns)
160
120
80
40
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
64-Gd-155

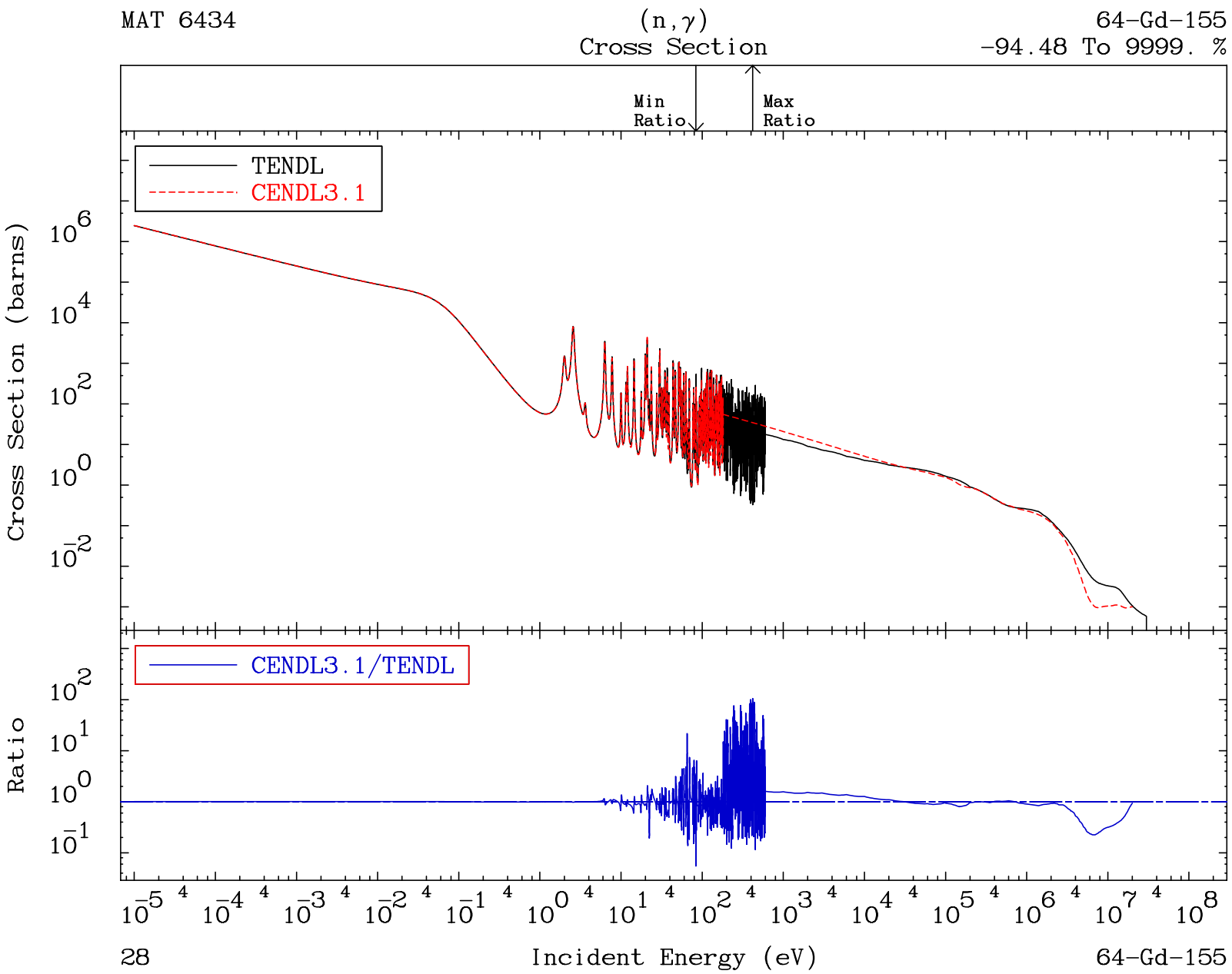

MAT 6434
MT= 66 (n,n') Level
Cross Section
64-Gd-155
-2.524 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 328.21 keV
CENDL3.1 Threshold 328.21 keV
Cross Section (milli-barns)
160
120
80
40
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
64-Gd-155

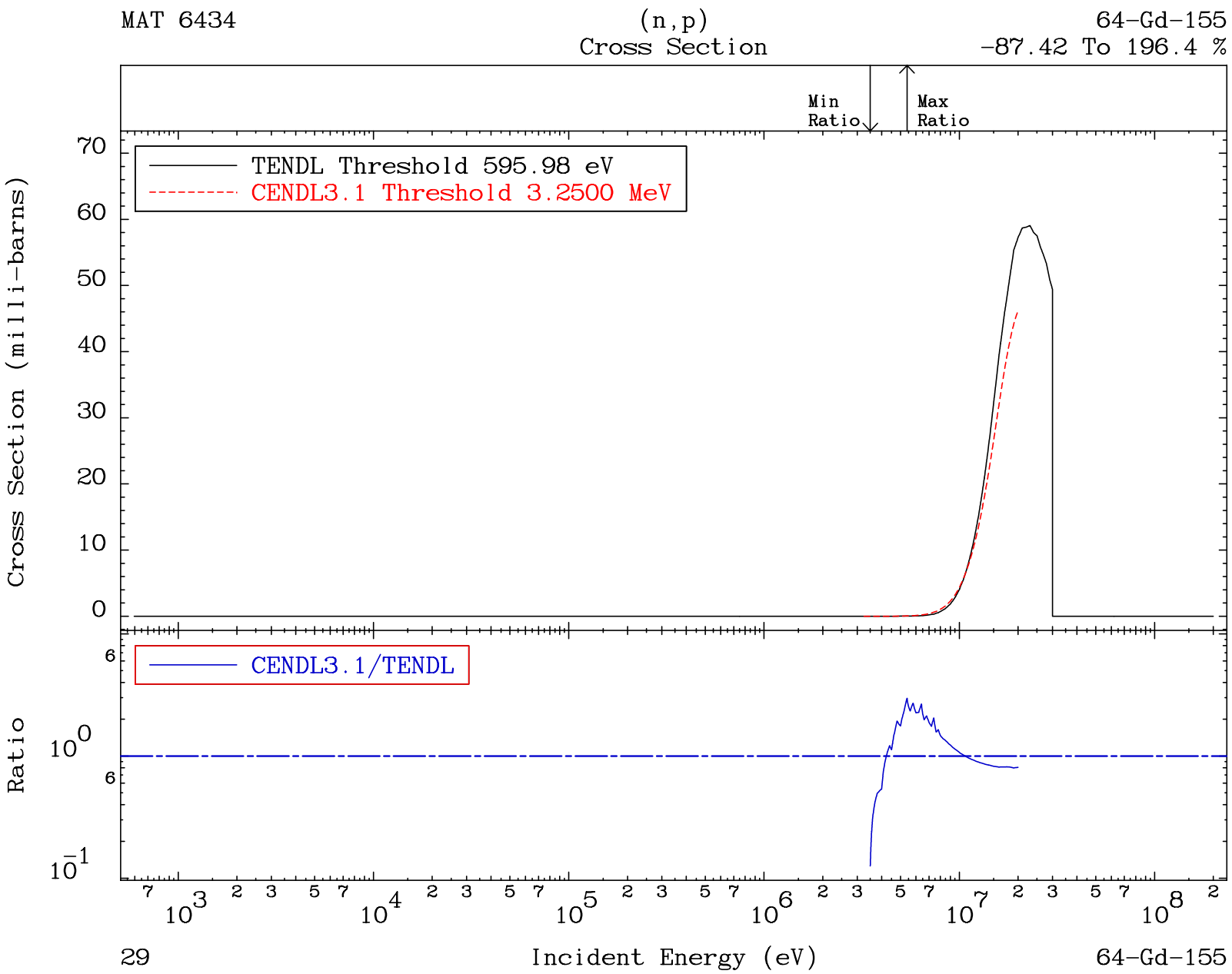

MAT 6434
MT= 67 (n,n') Level
Cross Section
64-Gd-155
-4.825 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 352.72 keV
CENDL3.1 Threshold 352.68 keV
Cross Section (milli-barns)
100
80
60
40
20
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
64-Gd-155

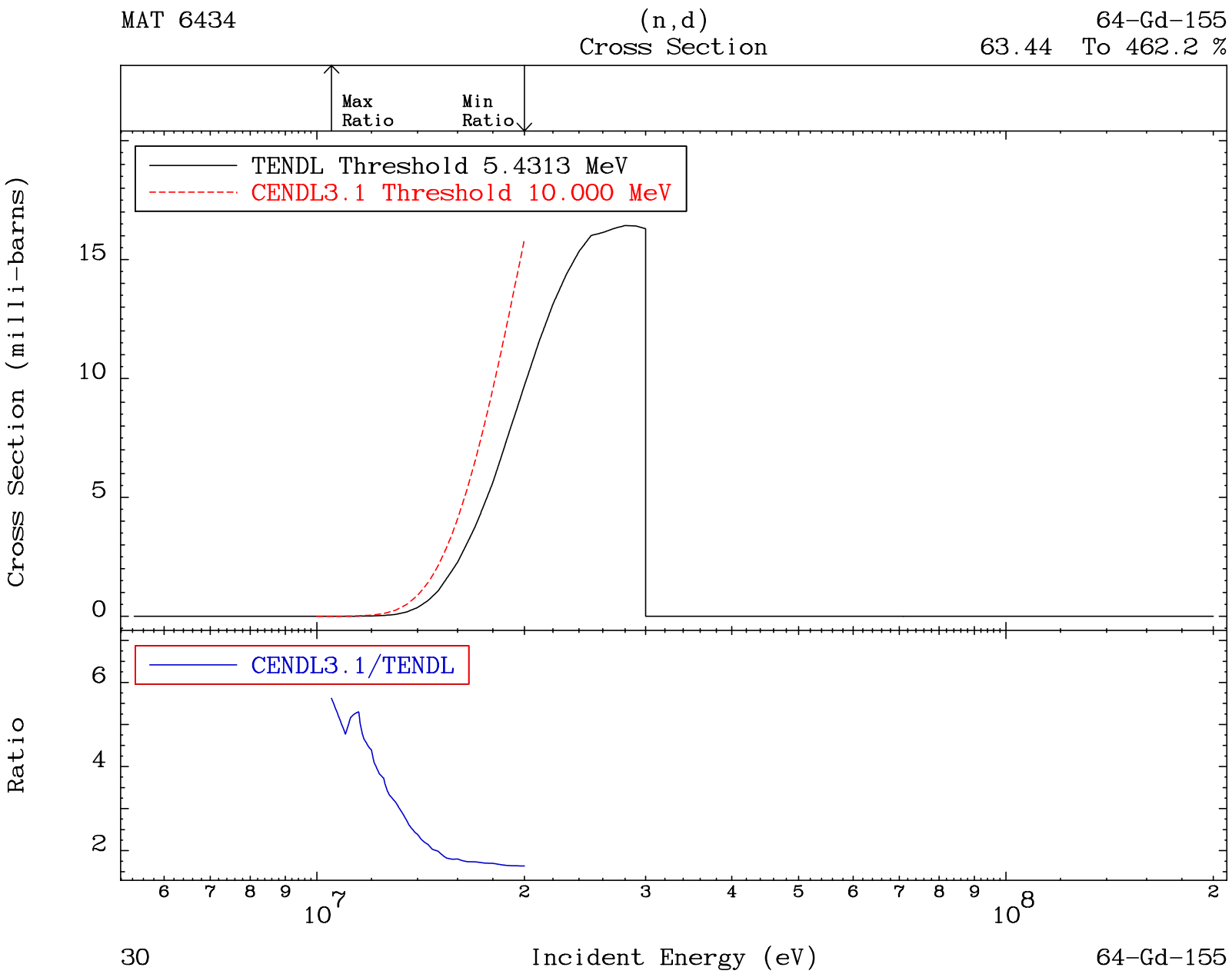

MAT 6434
MT= 68 (n,n') Level
Cross Section
64-Gd-155
0.501 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 370.03 keV
CENDL3.1 Threshold 370.03 keV
Cross Section (milli-barns)
100
80
60
40
20
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
64-Gd-155

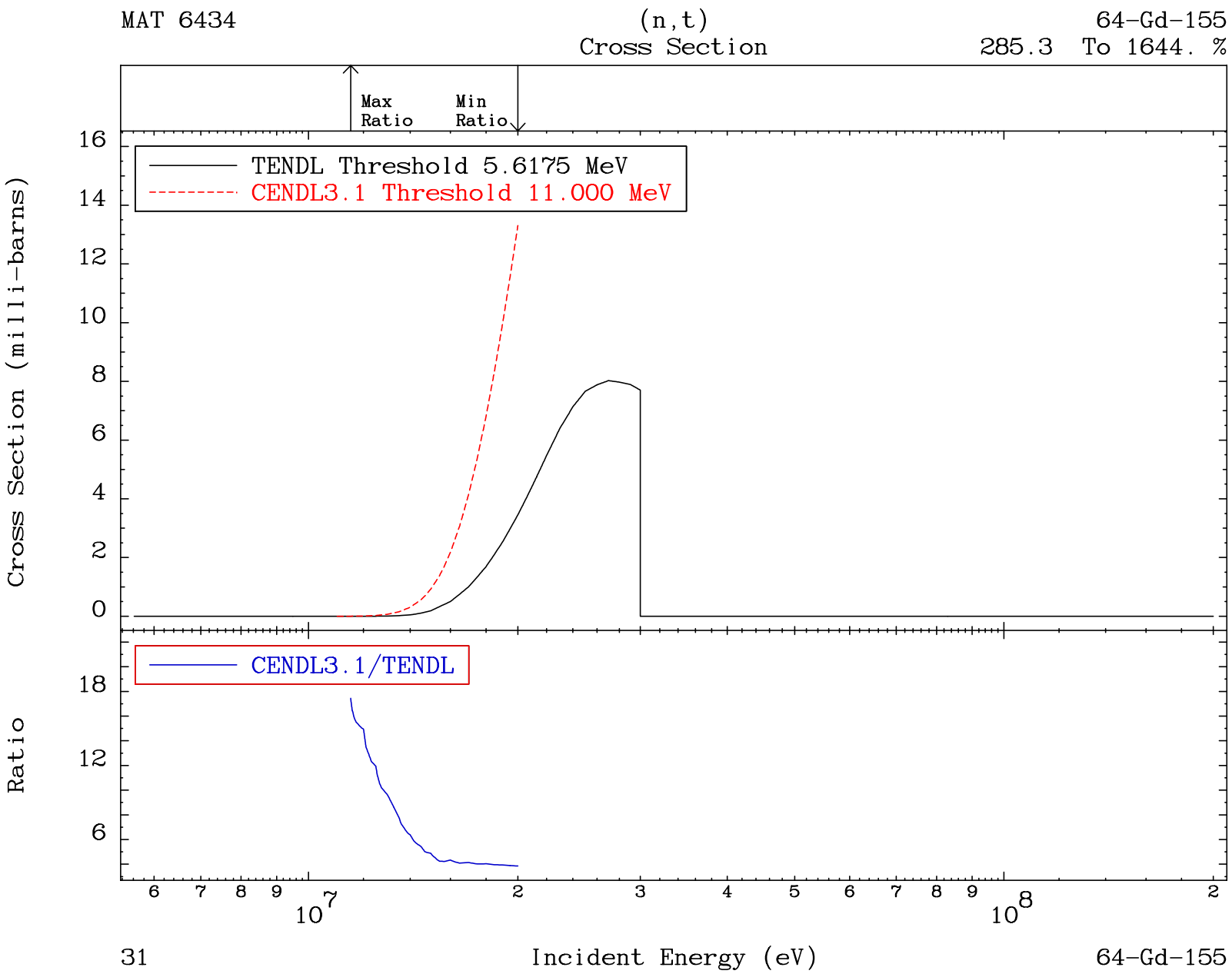

MAT 6434
MT= 69 (n,n') Level
Cross Section
64-Gd-155
-29.29 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 394.87 keV
CENDL3.1 Threshold 394.87 keV
Cross Section (milli-barns)
20
15
10
5
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
64-Gd-155

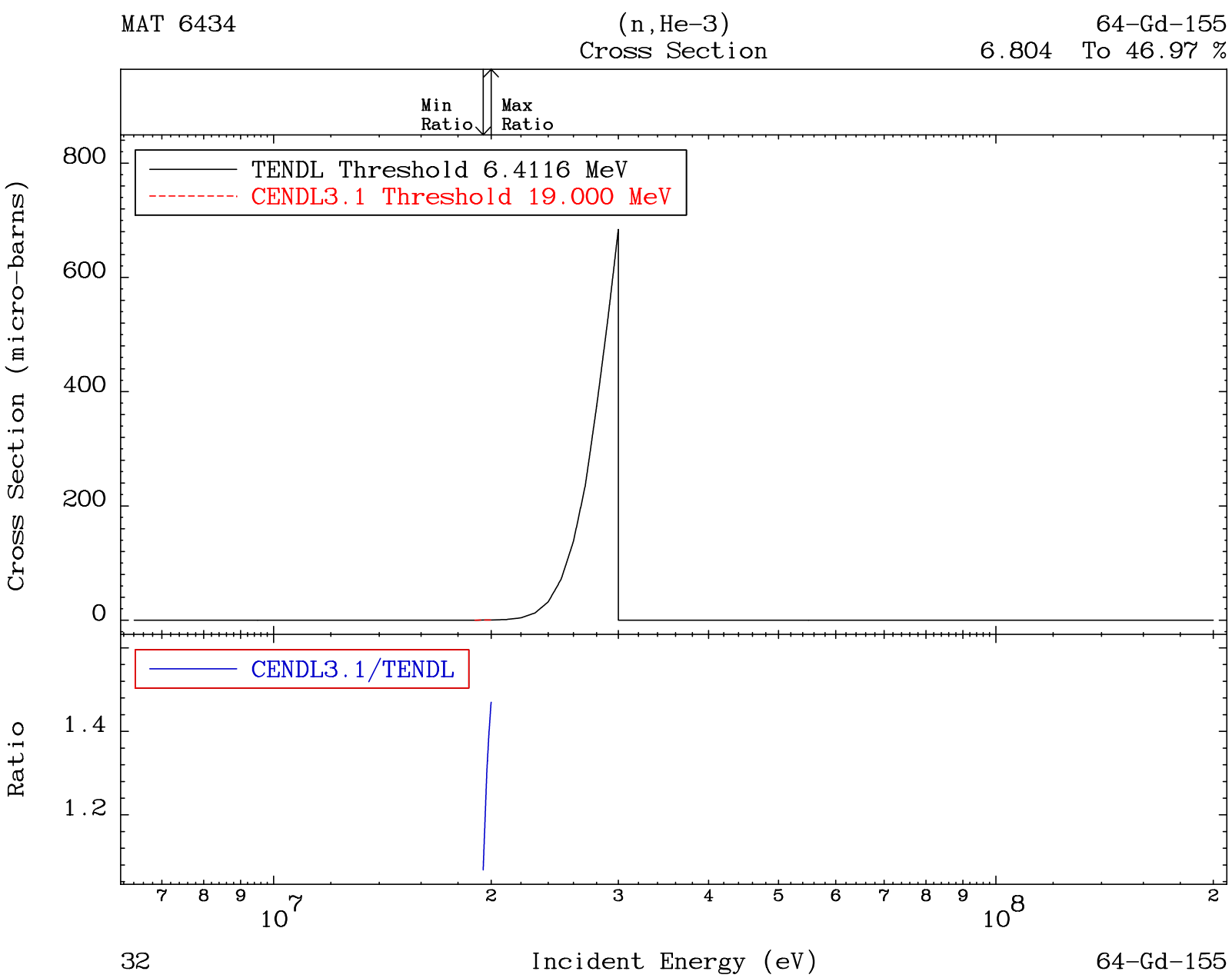

MAT 6434
(n,n') Continuum
Cross Section
64-Gd-155
-24.42 To 5703. %
Max
Ratio
Min
Ratio
TENDL Threshold 489.14 keV
CENDL3.1 Threshold 394.85 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
10^2
10^1
10^0
4
4
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
64-Gd-155

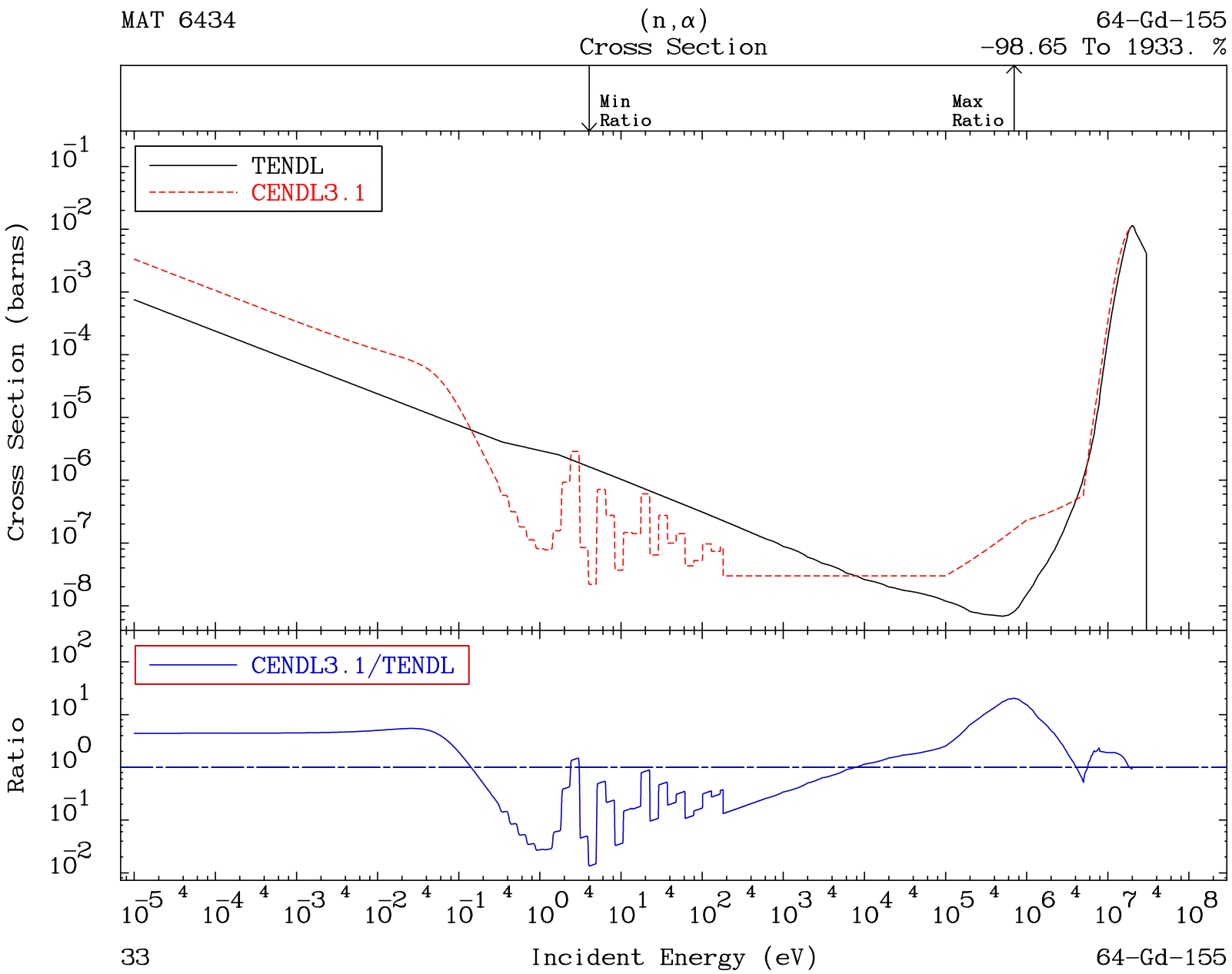

MAT 6434
(n,γ)
Cross Section
64-Gd-155
-94.48 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
28
64-Gd-155

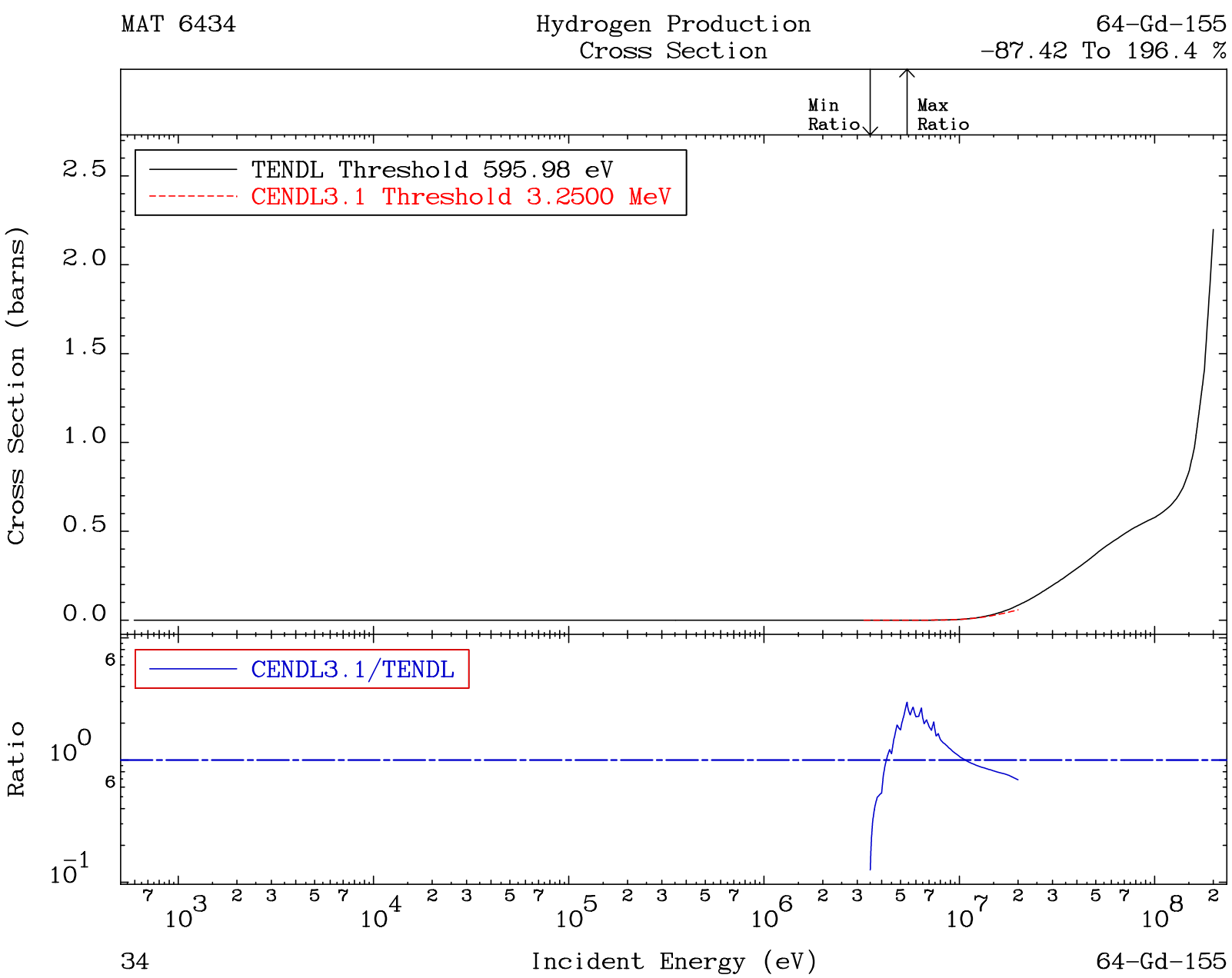

MAT 6434
(n,p)
Cross Section
64-Gd-155
-87.42 To 196.4 %
Min Ratio
Max Ratio
TENDL Threshold 595.98 eV
CENDL3.1 Threshold 3.2500 MeV
Cross Section (milli-barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
29
64-Gd-155

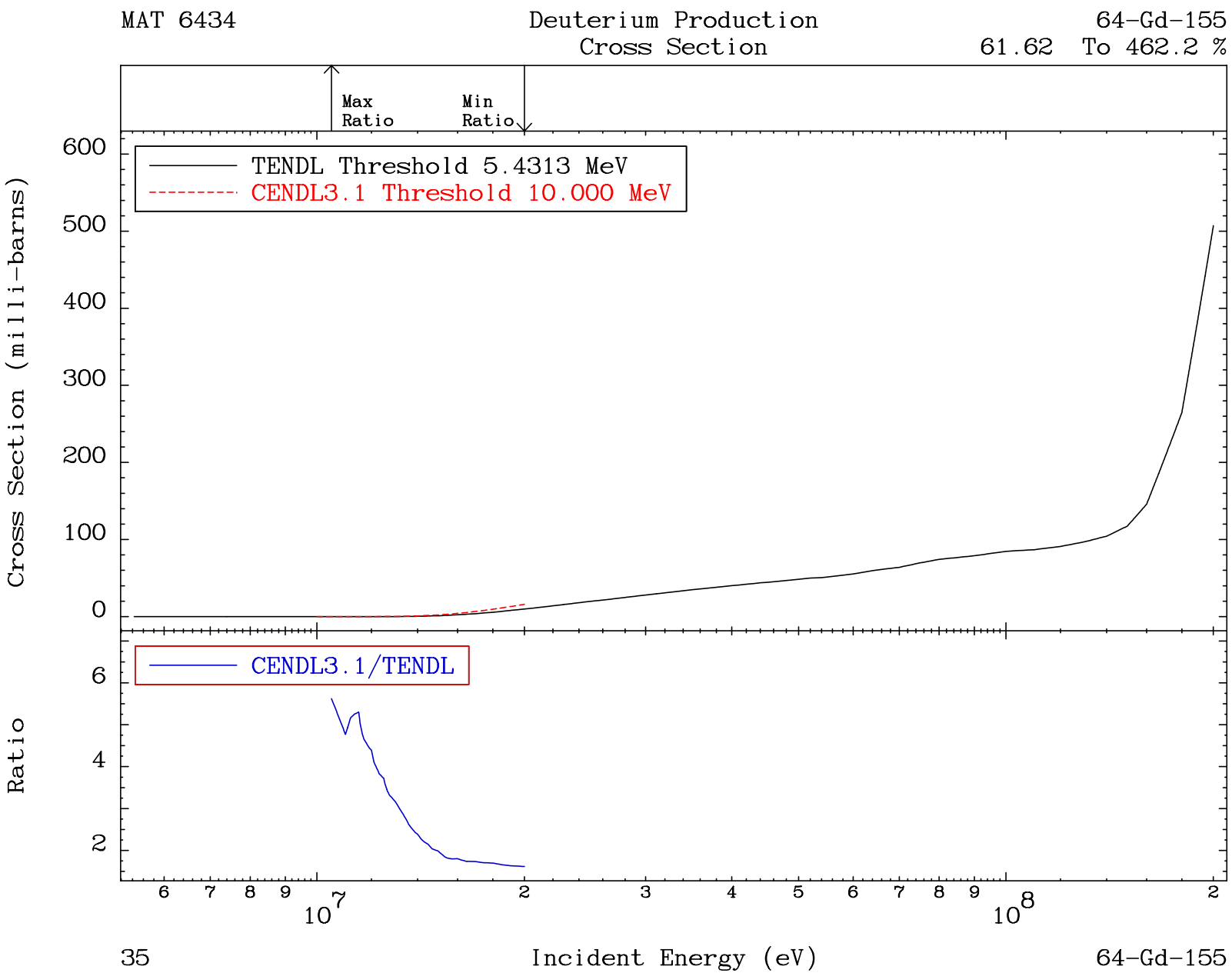

MAT 6434
(n,d)
Cross Section
64-Gd-155
63.44 To 462.2 %
Max Ratio
Min Ratio
TENDL Threshold 5.4313 MeV
CENDL3.1 Threshold 10.000 MeV
Cross Section (milli-barns)
15
10
5
0
CENDL3.1/TENDL
Ratio
6
4
2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
64-Gd-155

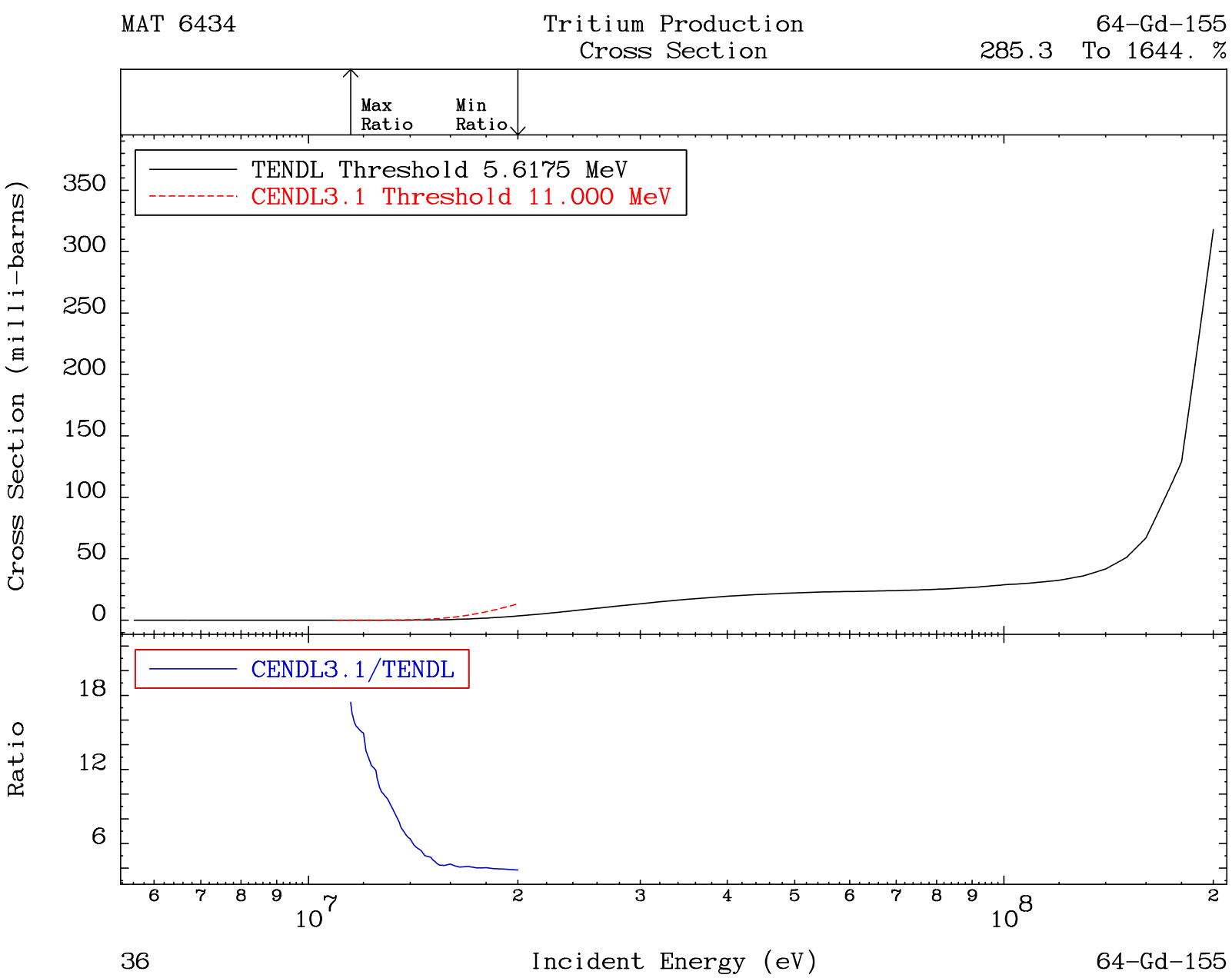

MAT 6434
(n,t)
Cross Section
64-Gd-155
285.3 To 1644. %
Max Ratio
Min Ratio
TENDL Threshold 5.6175 MeV
CENDL3.1 Threshold 11.000 MeV
Cross Section (milli-barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
31
64-Gd-155

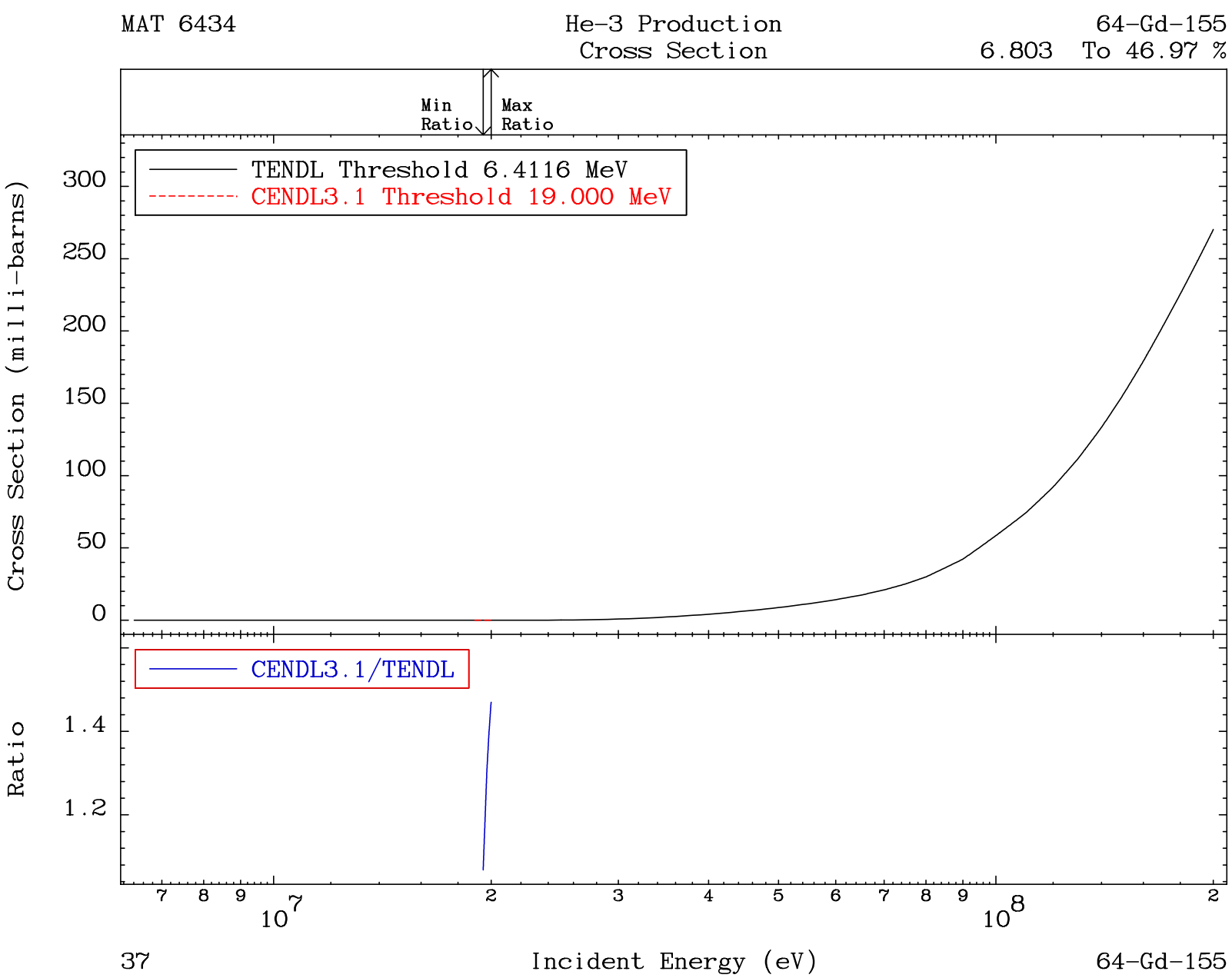

MAT 6434
(n,He-3)
Cross Section
64-Gd-155
6.804 To 46.97 %
Min Ratio
Max Ratio
TENDL Threshold 6.4116 MeV
CENDL3.1 Threshold 19.000 MeV
Cross Section (micro-barns)
800
600
400
200
0
CENDL3.1/TENDL
Ratio
1.4
1.2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
64-Gd-155

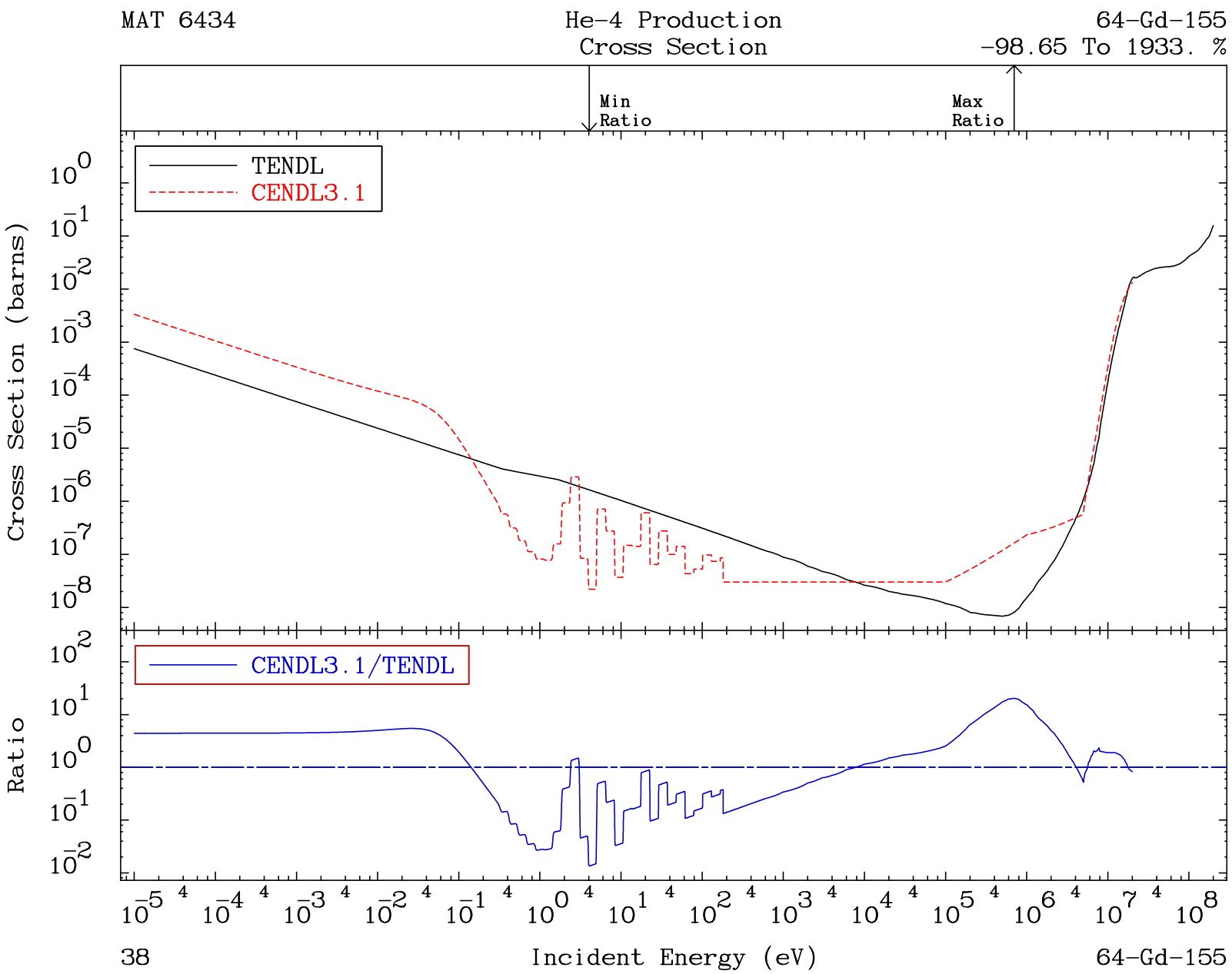

MAT 6434
(n,α)
Cross Section
64-Gd-155
-98.65 To 1933. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
33
64-Gd-155

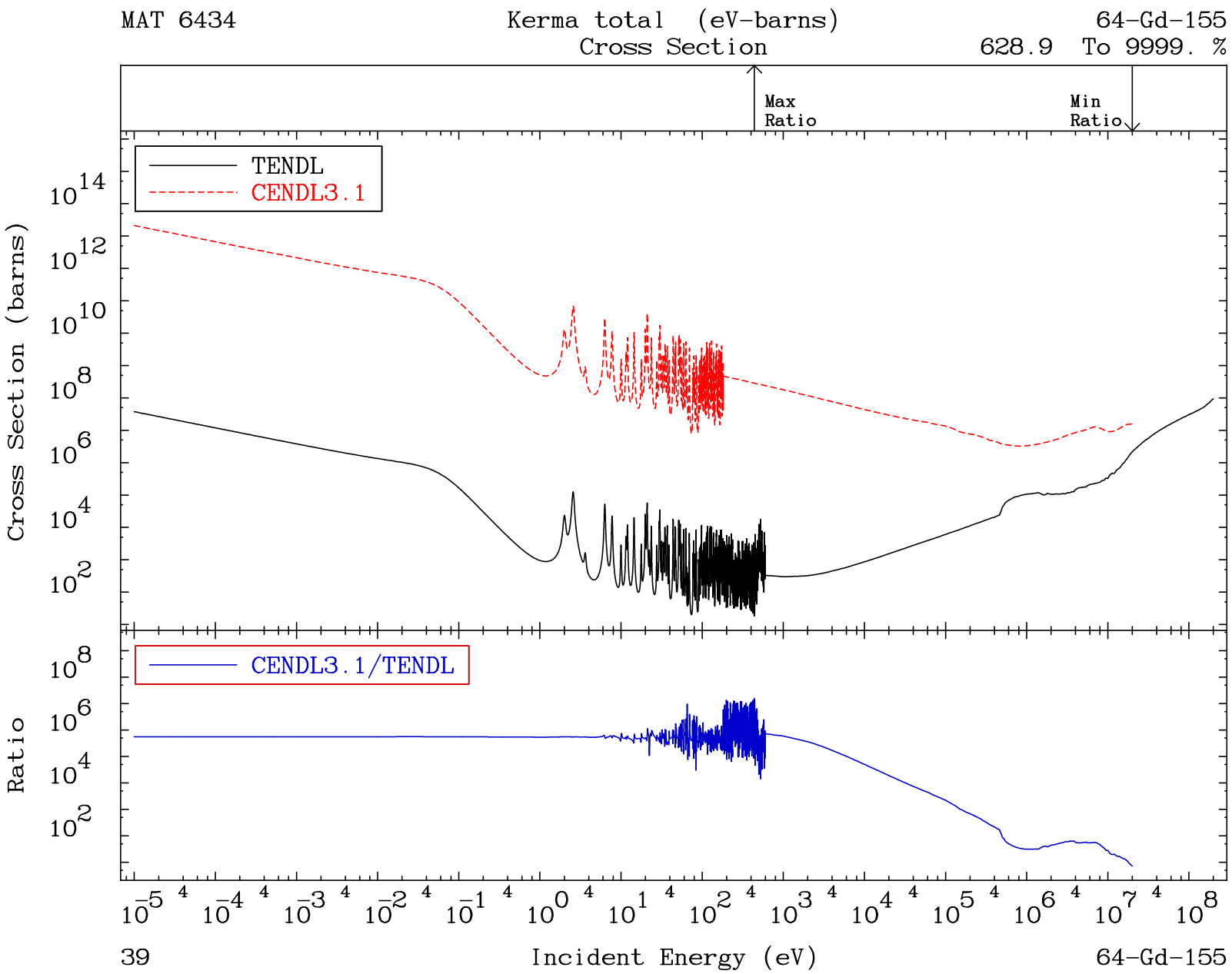

MAT 6434
Hydrogen Production
Cross Section
64-Gd-155
-87.42 To 196.4 %
Min Ratio
Max Ratio
TENDL Threshold 595.98 eV
CENDL3.1 Threshold 3.2500 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
6
10^0
6
10^{-1}
7
10^3
2 3 5 7
10^4
2 3 5 7
10^5
2 3 5 7
10^6
2 3 5 7
10^7
2 3 5 7
10^8
2
34
Incident Energy (eV)
64-Gd-155

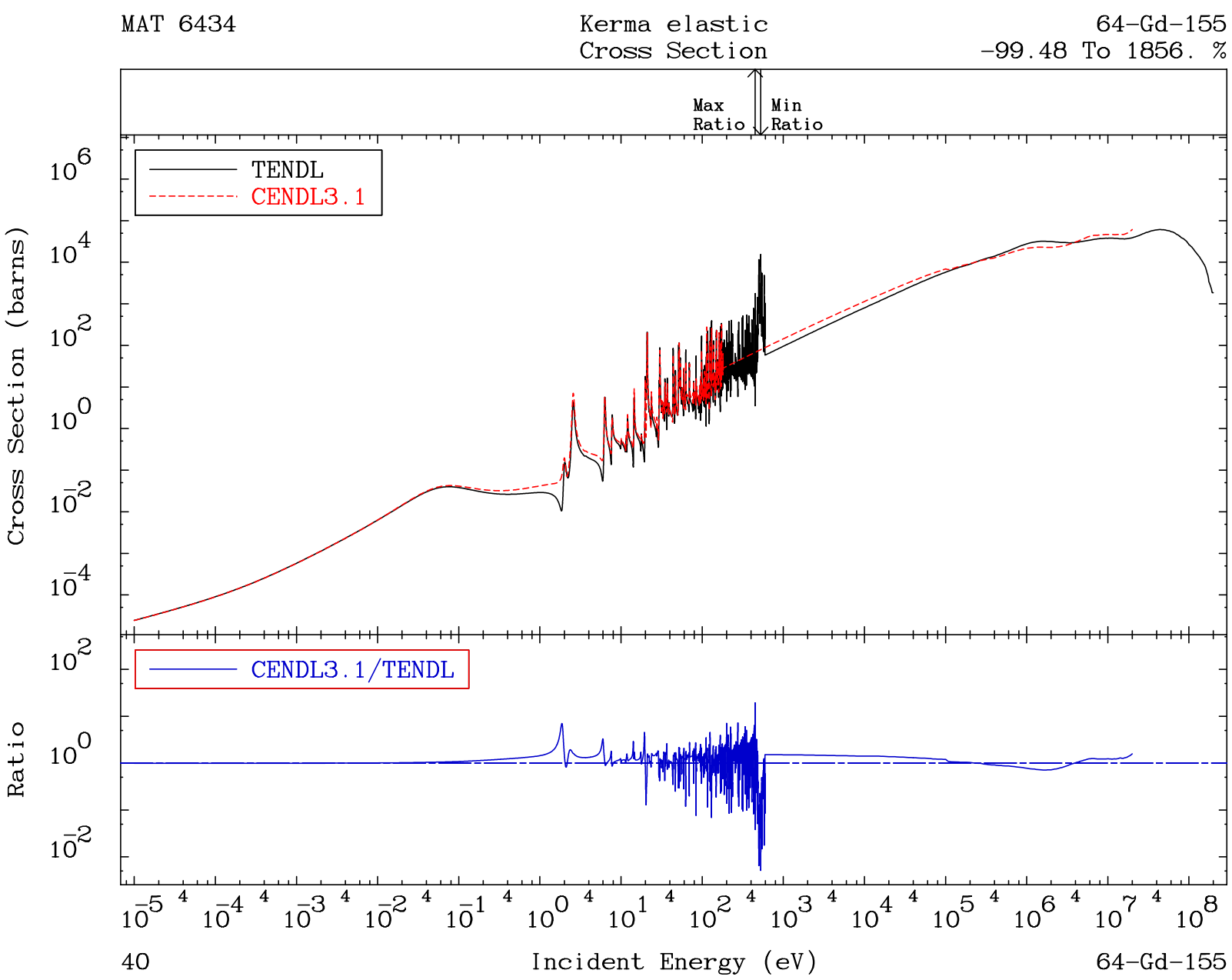

MAT 6434
Deuterium Production
Cross Section
64-Gd-155
61.62 To 462.2 %
Max Ratio
Min Ratio
TENDL Threshold 5.4313 MeV
CENDL3.1 Threshold 10.000 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
CENDL3.1/TENDL
Ratio
6
4
2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
64-Gd-155

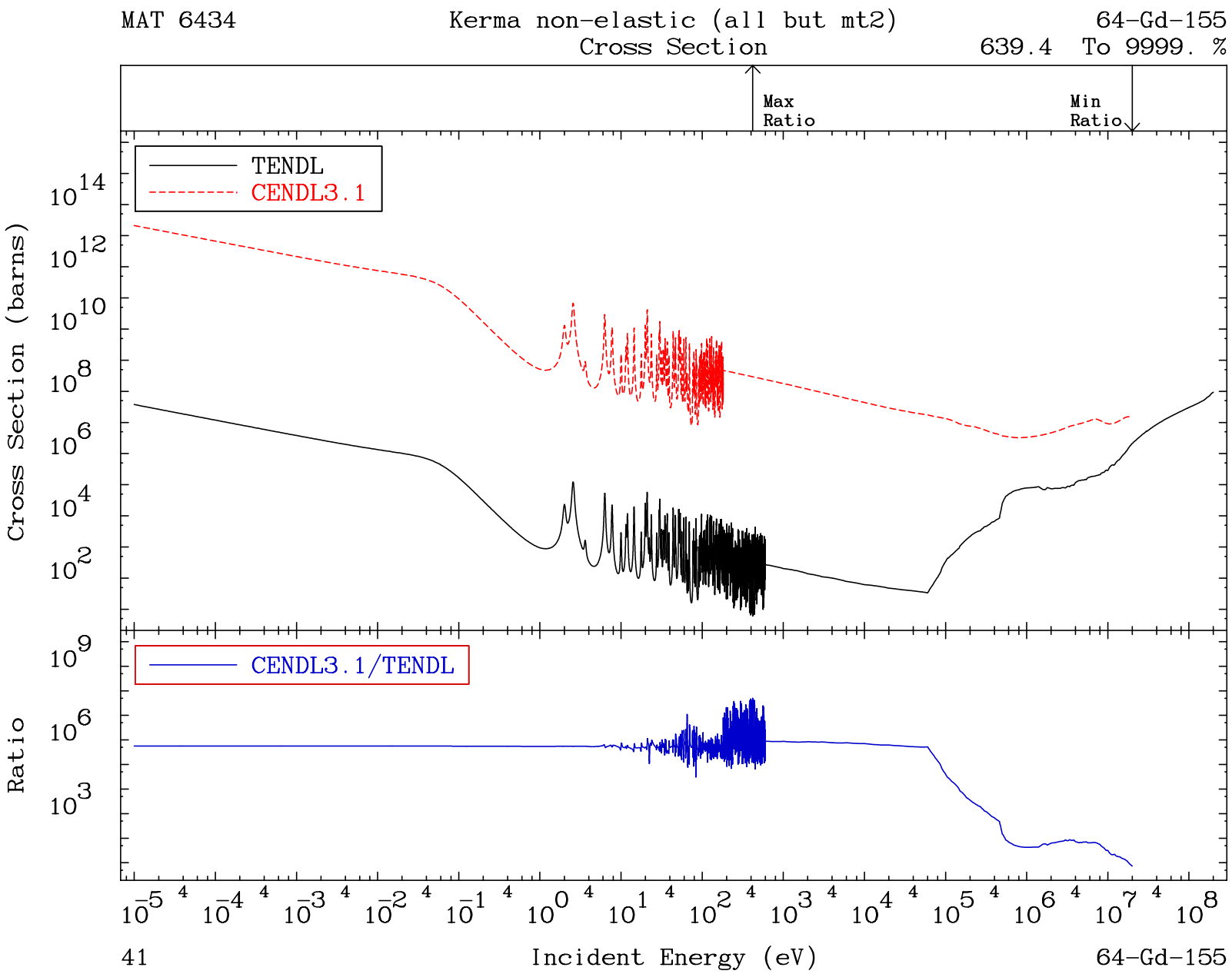

MAT 6434
Tritium Production
Cross Section
64-Gd-155
285.3 To 1644. %
Max Ratio
Min Ratio
TENDL Threshold 5.6175 MeV
CENDL3.1 Threshold 11.000 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
CENDL3.1/TENDL
Ratio
18
12
6
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
64-Gd-155

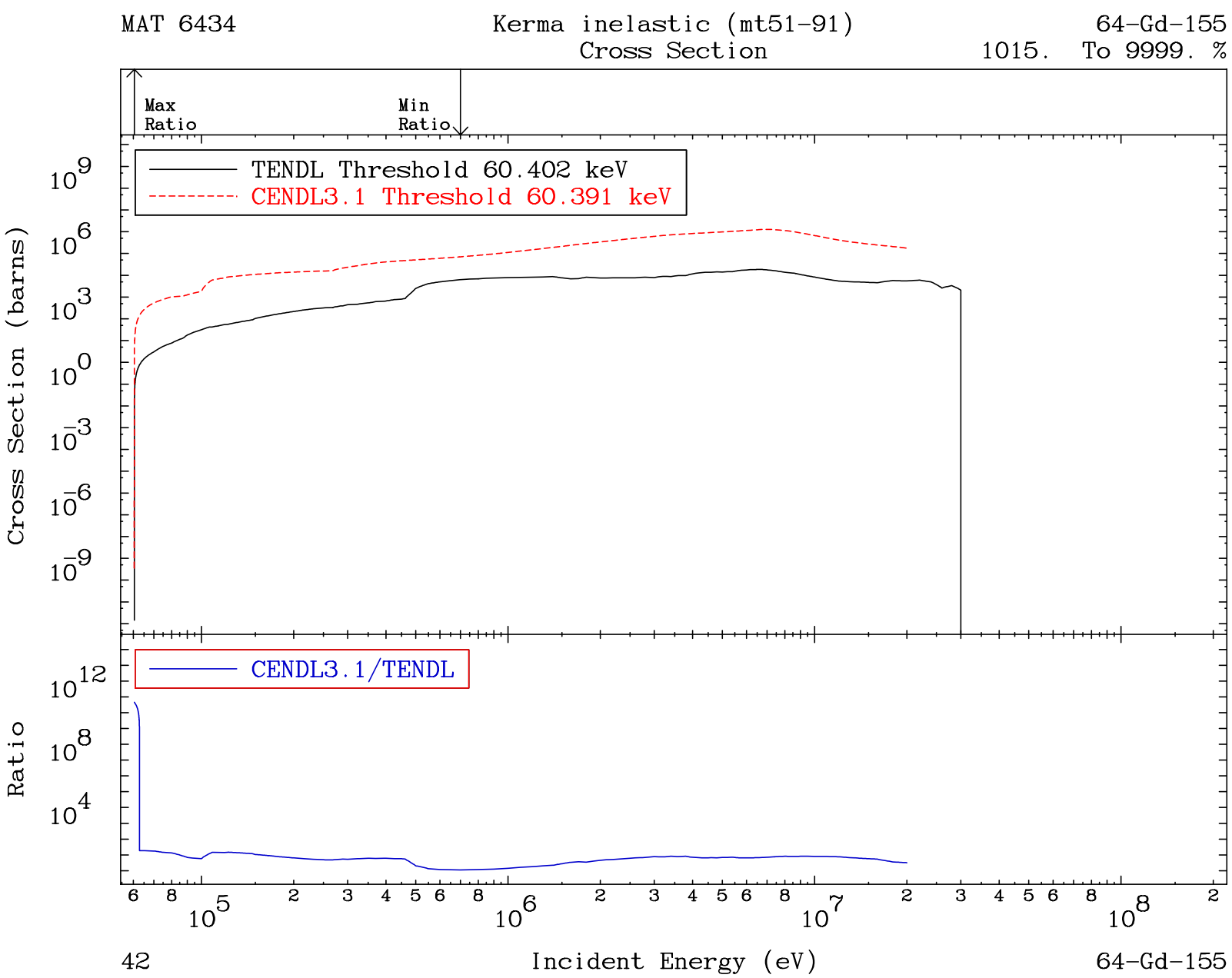

MAT 6434
He-3 Production
Cross Section
64-Gd-155
6.803 To 46.97 %
Min Ratio
Max Ratio
TENDL Threshold 6.4116 MeV
CENDL3.1 Threshold 19.000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
CENDL3.1/TENDL
Ratio
1.4
1.2
7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
37
Incident Energy (eV)
64-Gd-155

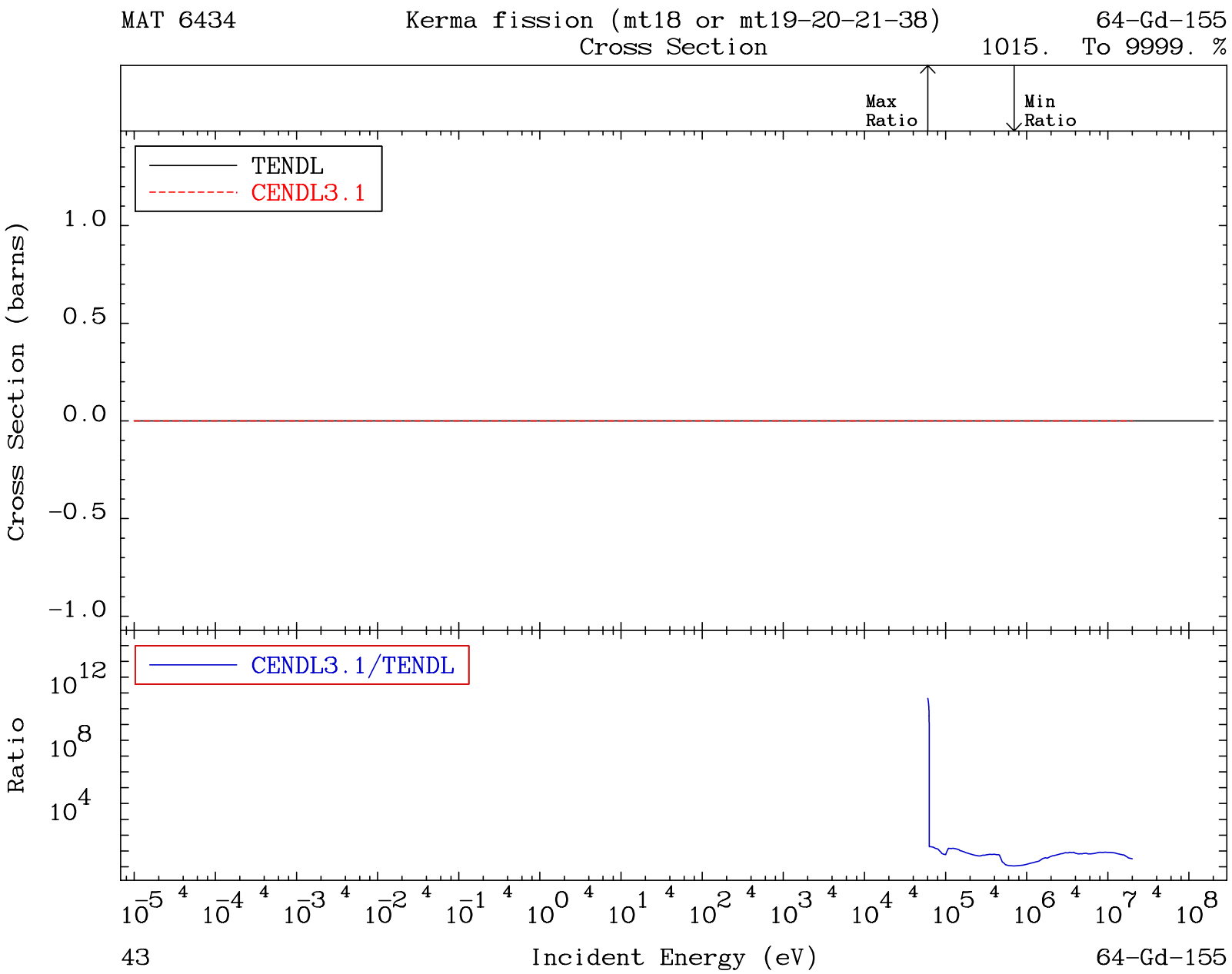

MAT 6434
He-4 Production
Cross Section
64-Gd-155
-98.65 To 1933. %
Min
Ratio
Max
Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
38
64-Gd-155

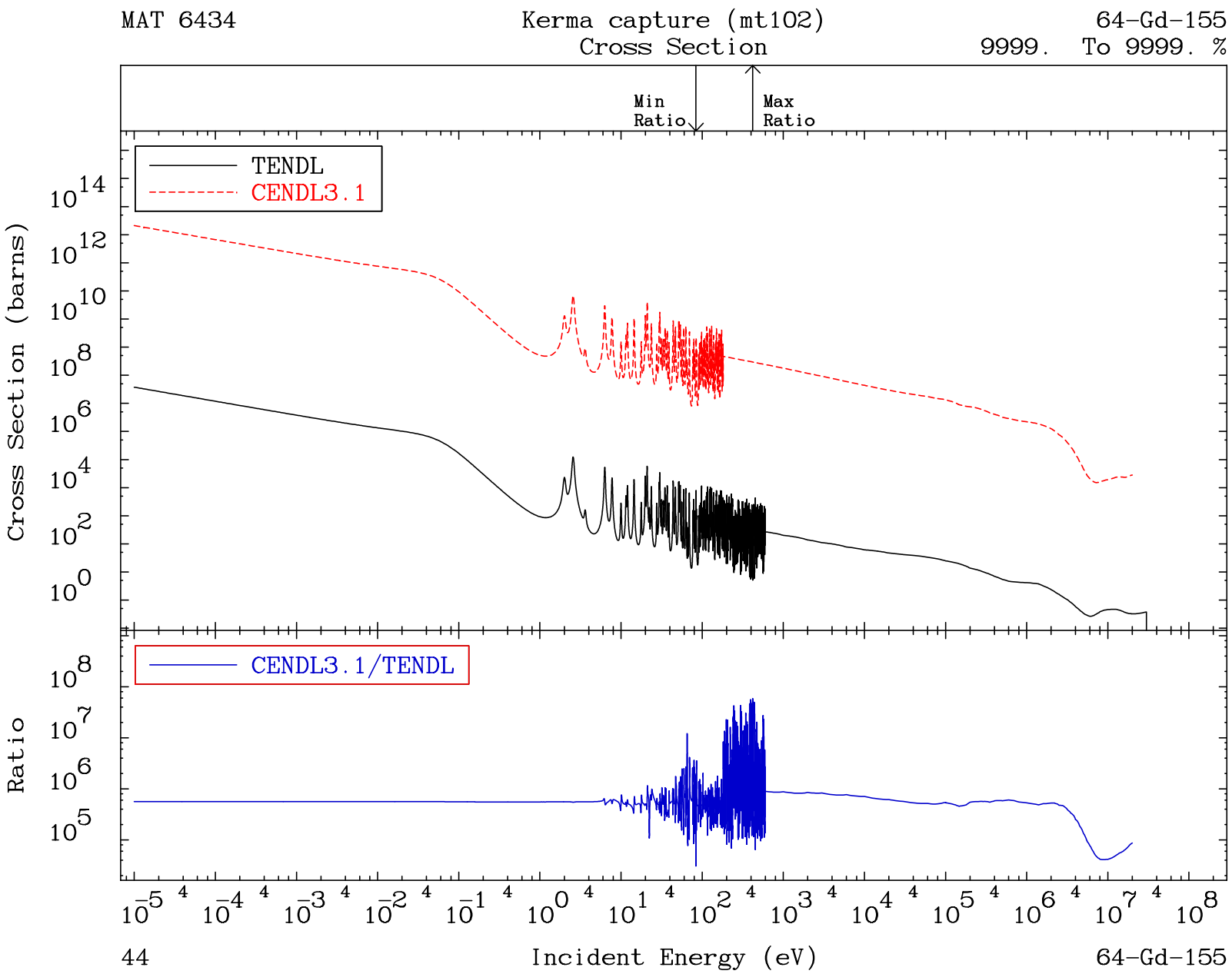

MAT 6434
Kerma total (eV-barns)
Cross Section
64-Gd-155
628.9 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
39
Incident Energy (eV)
64-Gd-155

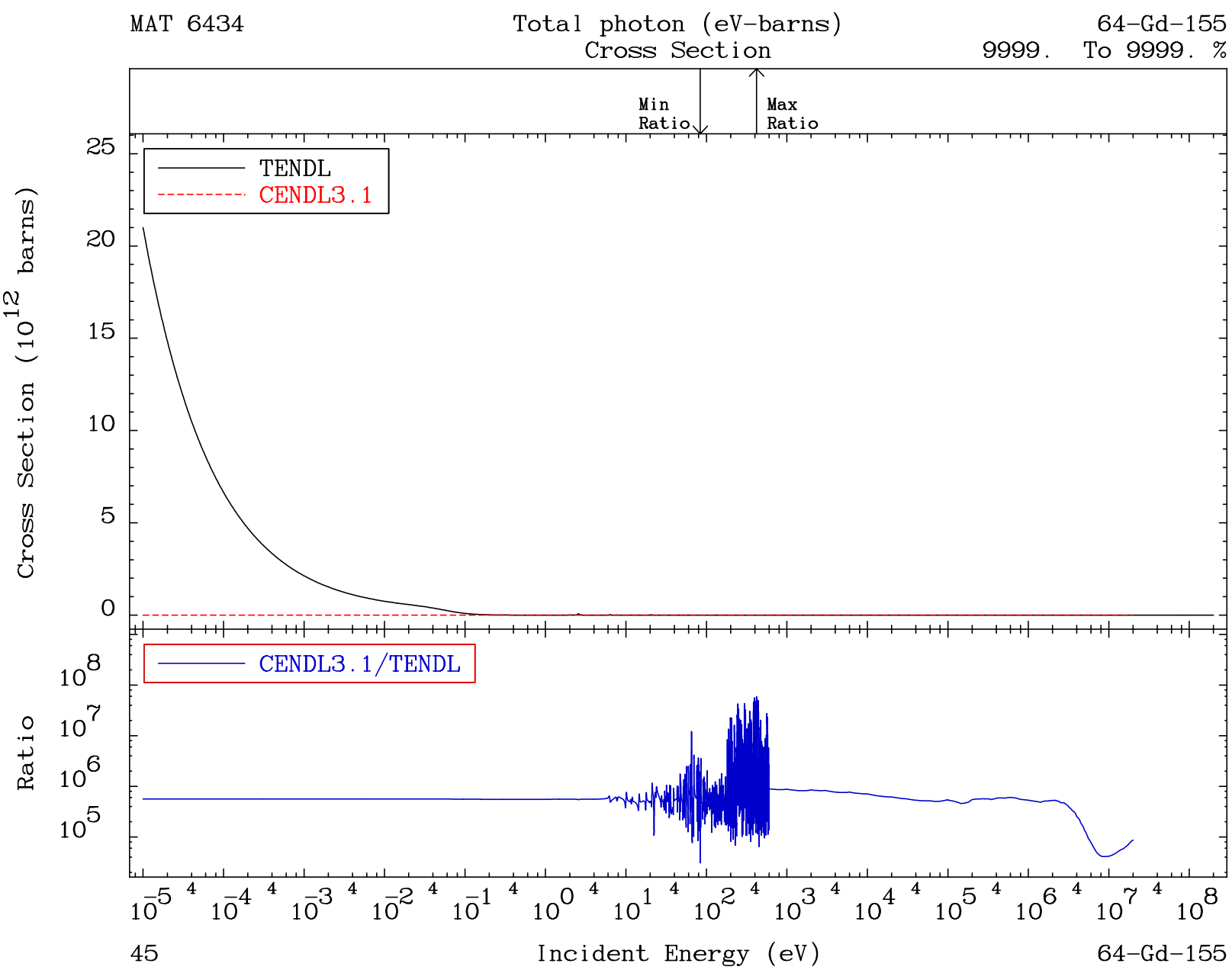

MAT 6434
Kerma elastic
Cross Section
64-Gd-155
-99.48 To 1856. %
Max
Ratio
Min
Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
40
64-Gd-155

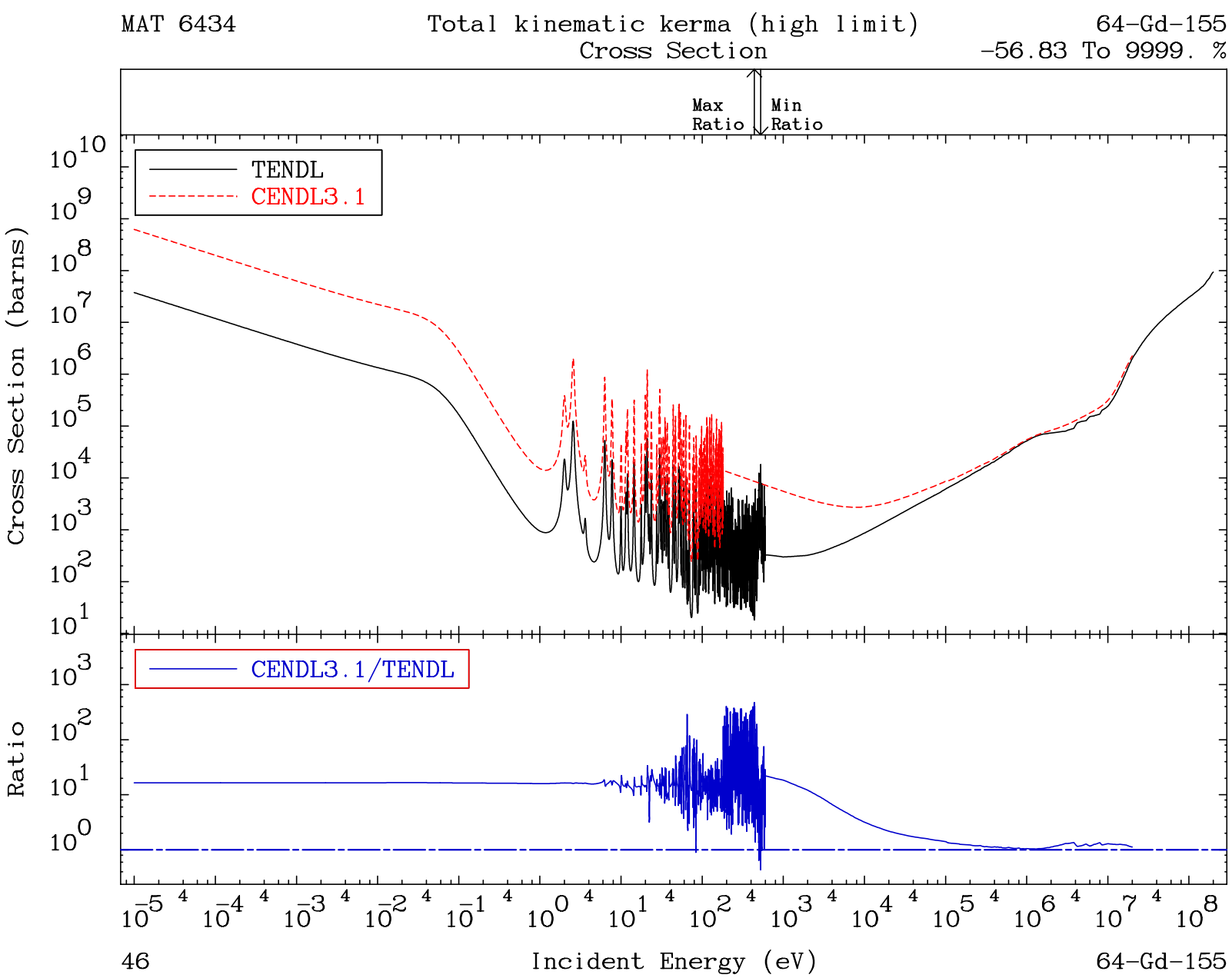

MAT 6434
Kerma non-elastic (all but mt2)
Cross Section
64-Gd-155
639.4 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
41
64-Gd-155

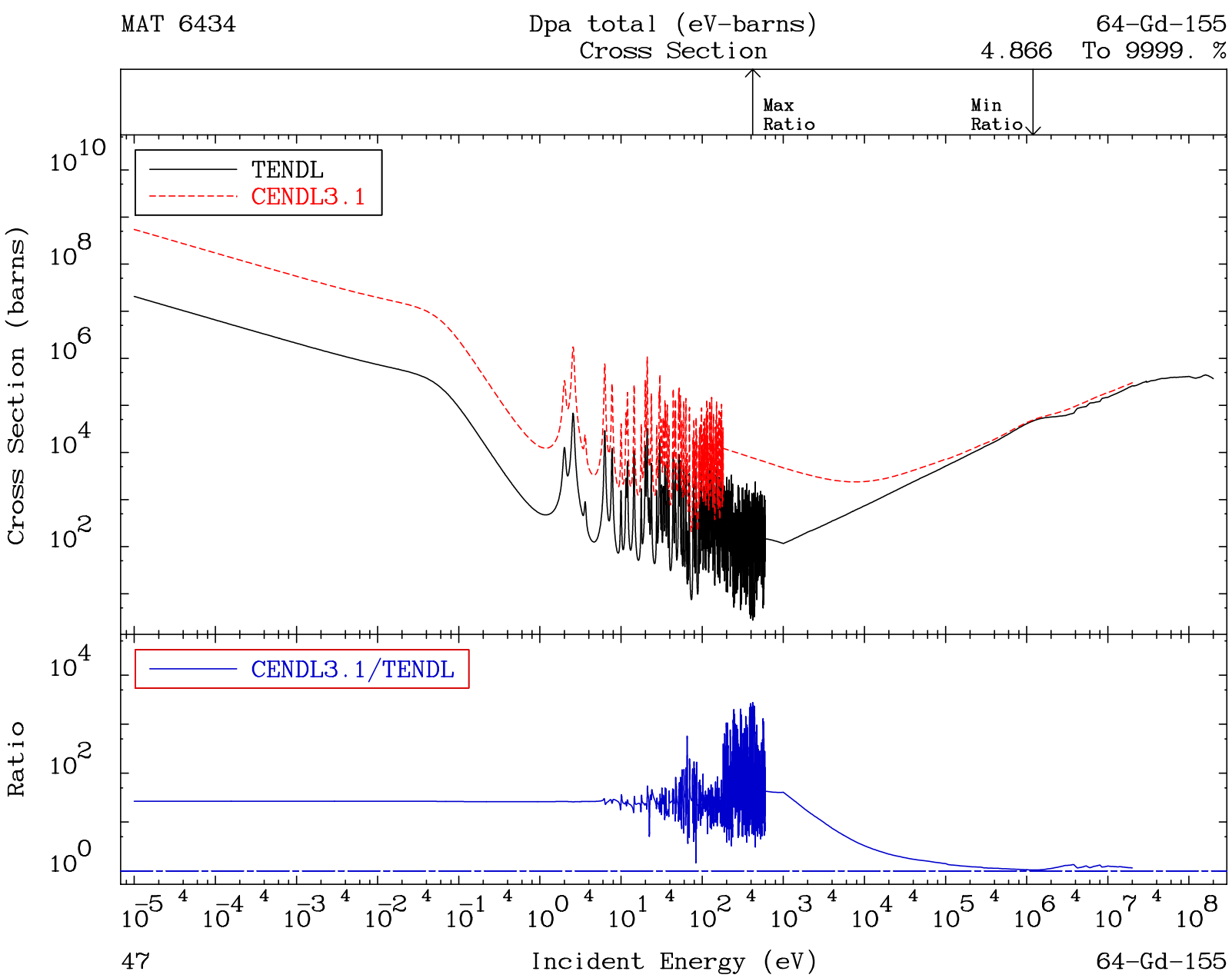

MAT 6434
Kerma inelastic (mt51-91)
Cross Section
64-Gd-155
1015. To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 60.402 keV
CENDL3.1 Threshold 60.391 keV
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
42
64-Gd-155

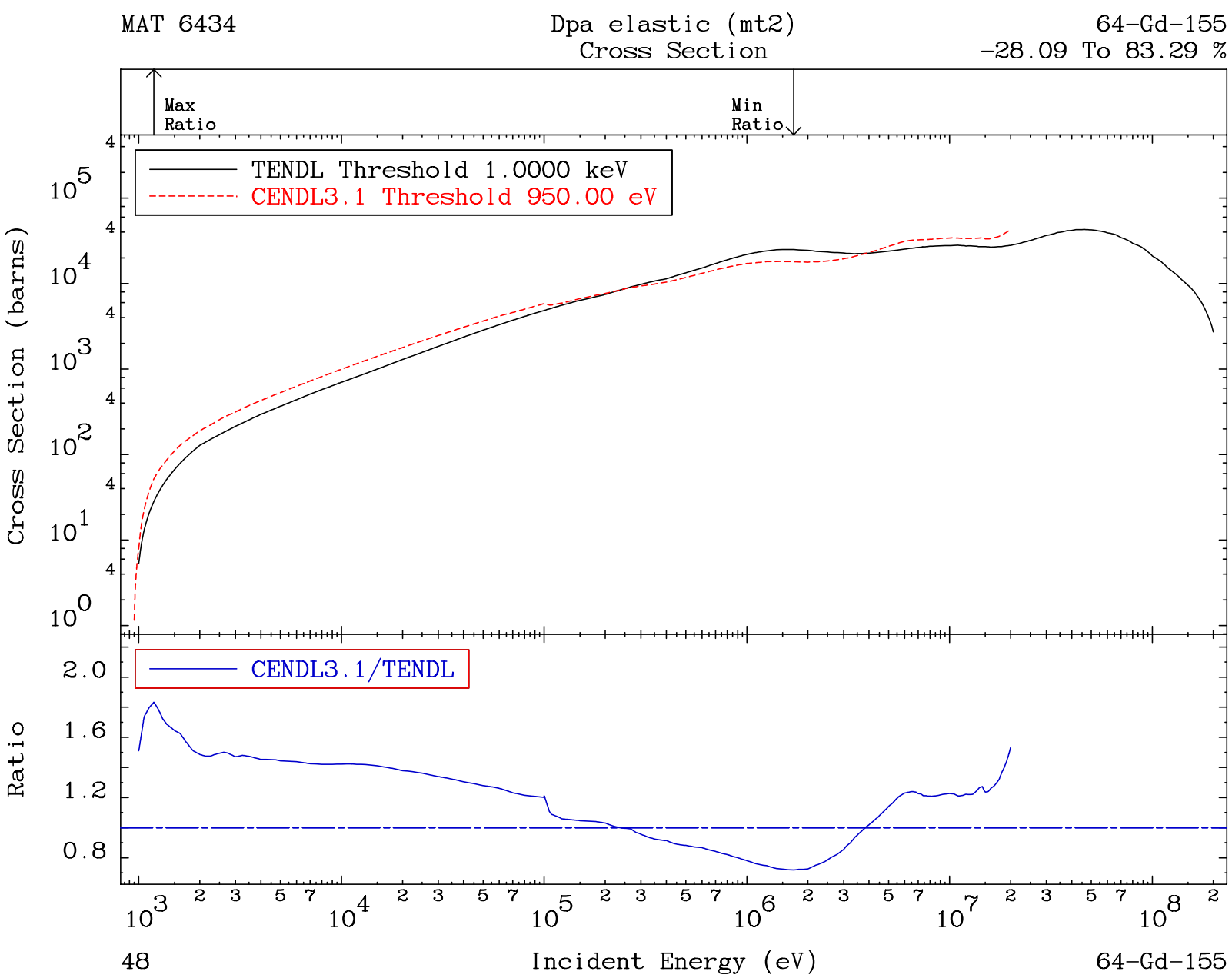

MAT 6434
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
64-Gd-155
1015. To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
CENDL3.1/TENDL
Ratio
10^{12}
10^{8}
10^{4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
43
Incident Energy (eV)
64-Gd-155

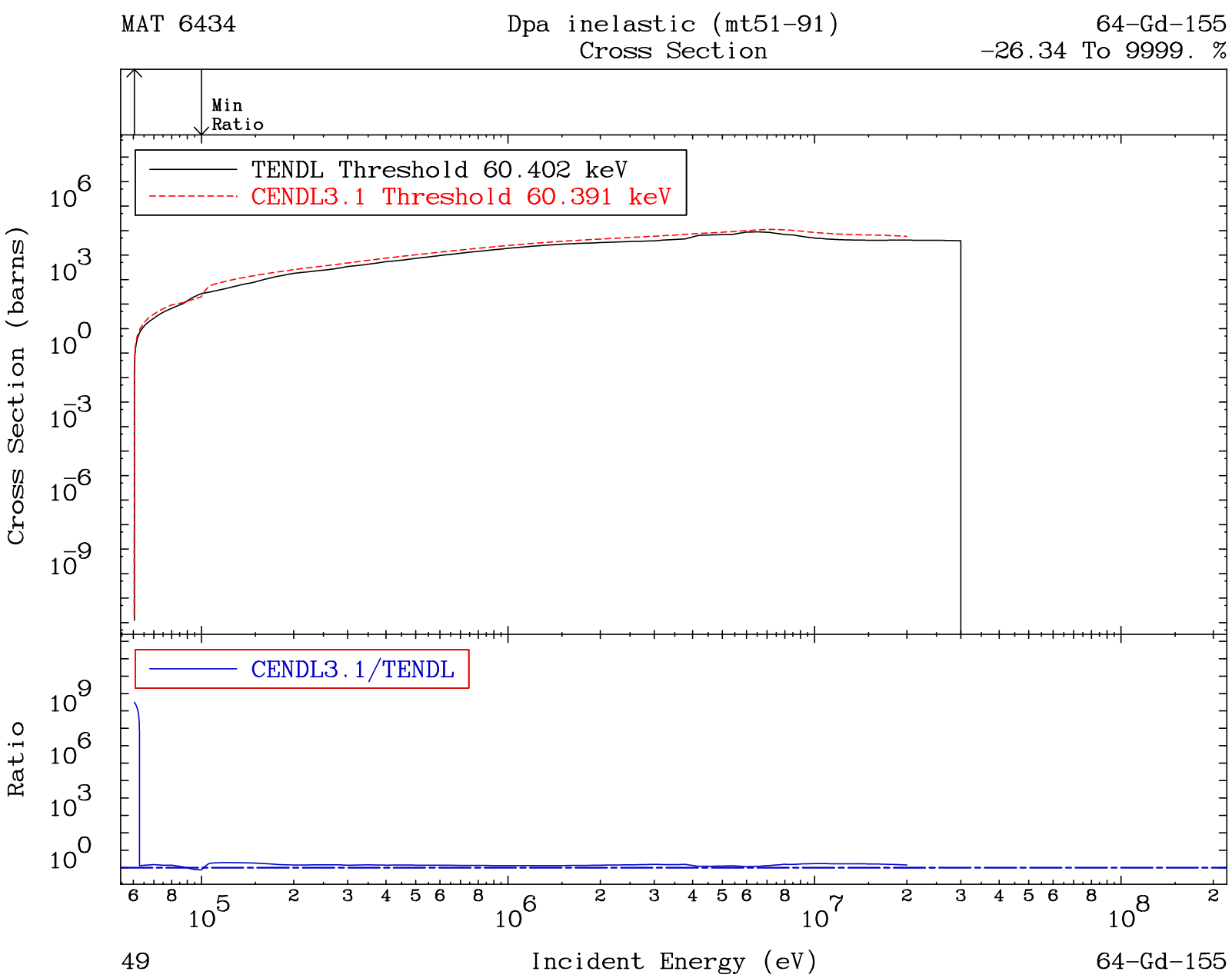

MAT 6434
Kerma capture (mt102)
Cross Section
64-Gd-155
9999. To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
44
64-Gd-155

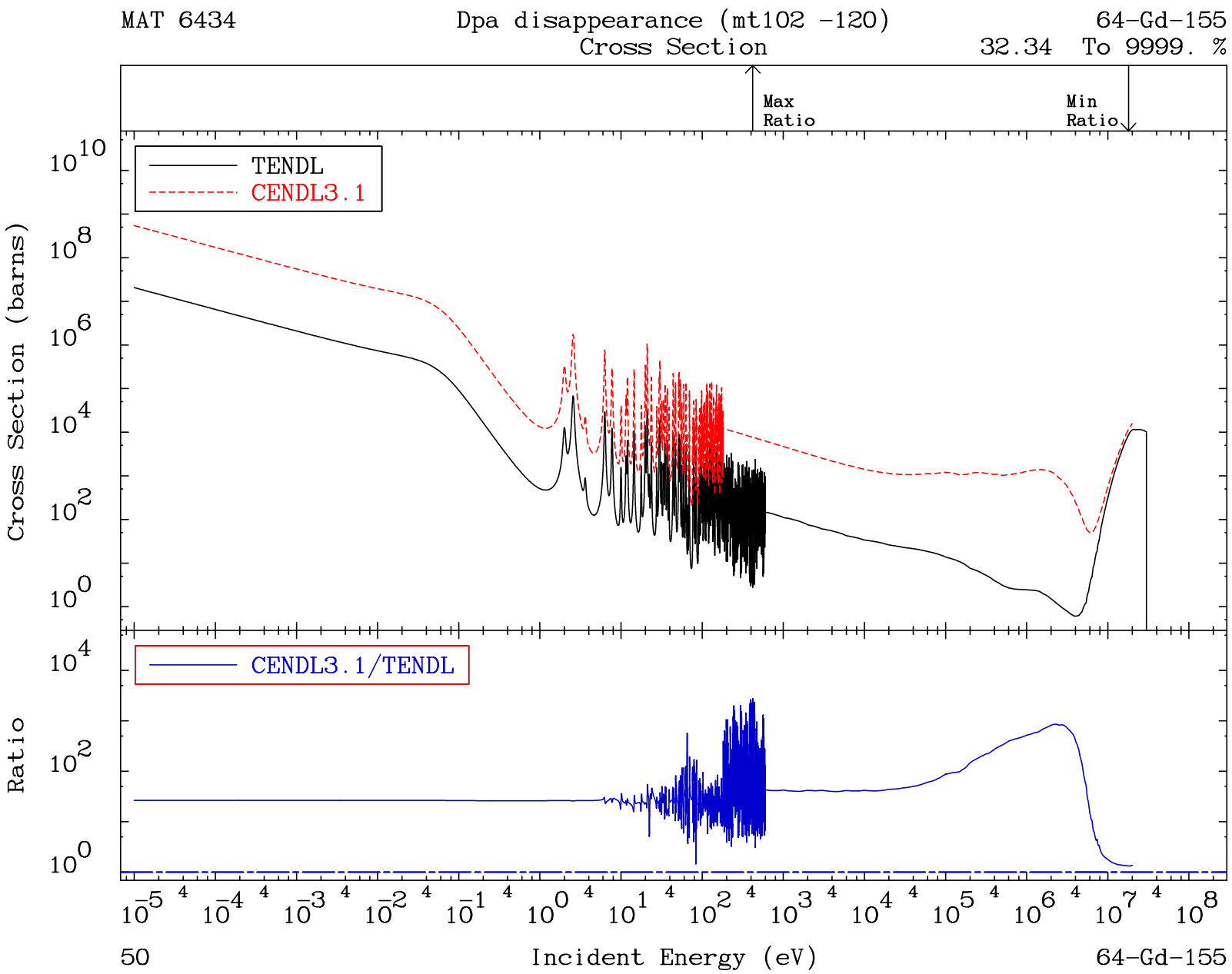

MAT 6434
Total photon (eV-barns)
Cross Section
64-Gd-155
9999. To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (10^{12} barns)
25
20
15
10
5
0
CENDL3.1/TENDL
Ratio
10^{8}
10^{7}
10^{6}
10^{5}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
45
Incident Energy (eV)
64-Gd-155

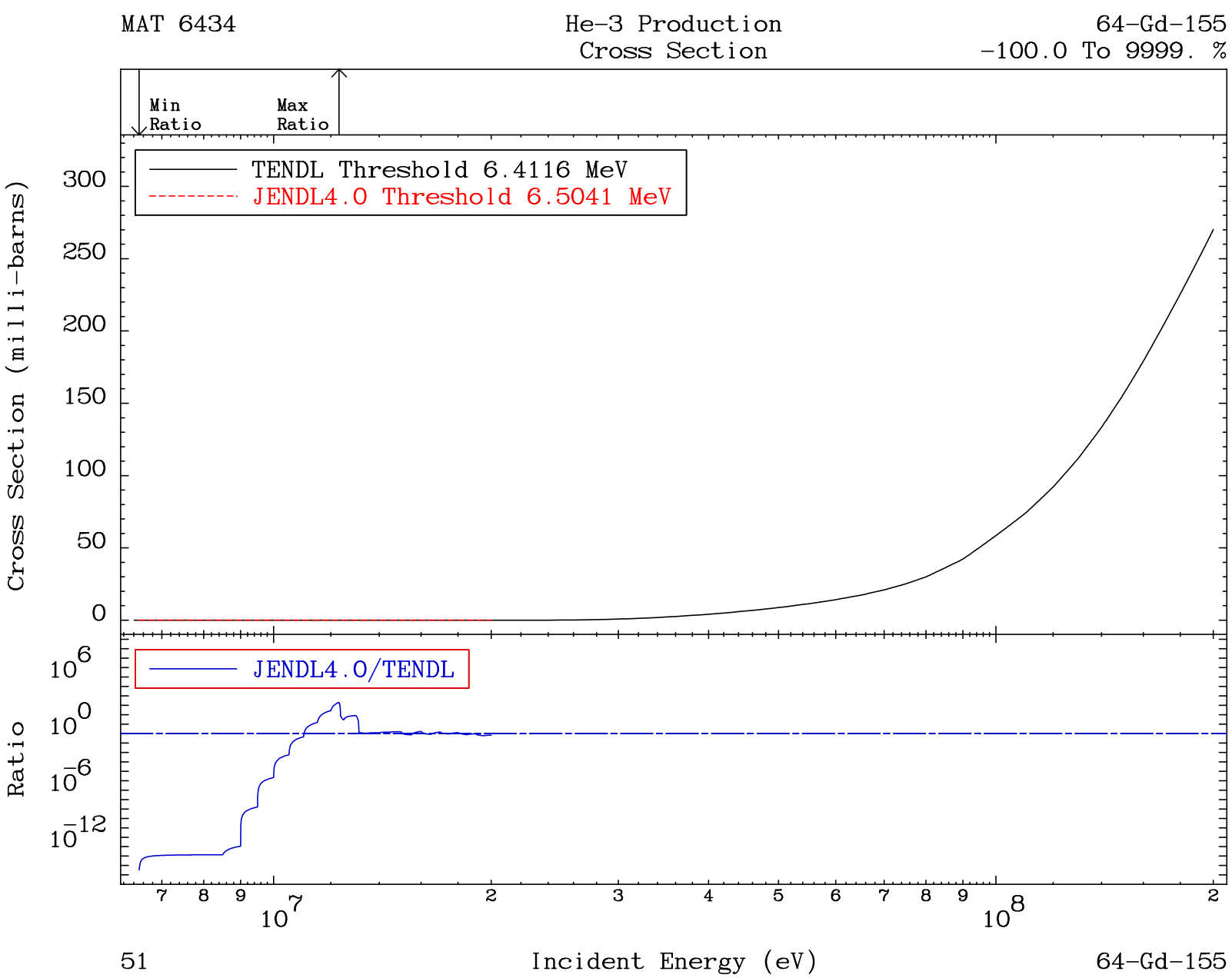

MAT 6434
Total kinematic kerma (high limit)
Cross Section
64-Gd-155
-56.83 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
46
64-Gd-155

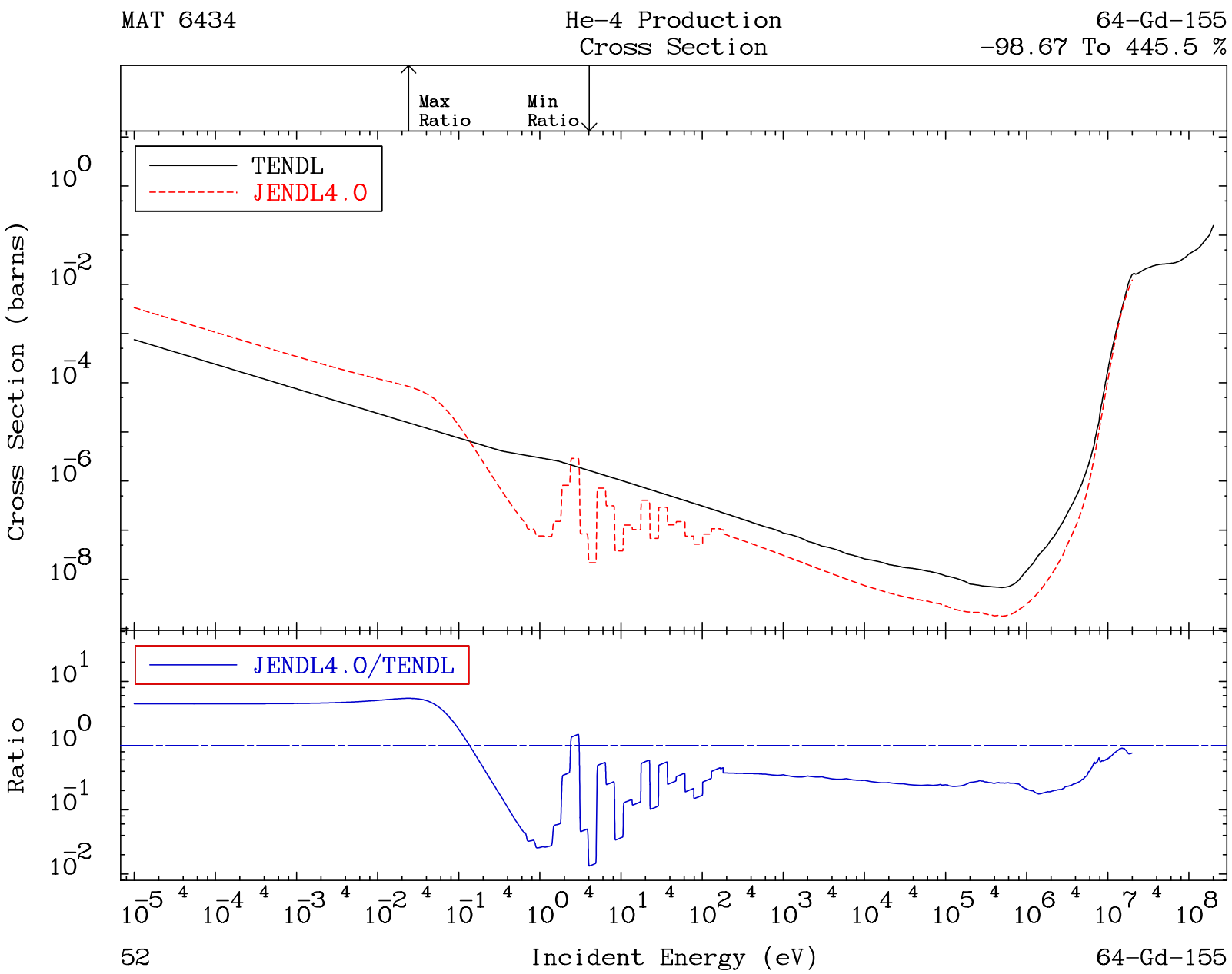

MAT 6434
Dpa total (eV-barns)
Cross Section
64-Gd-155
4.866 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
47
64-Gd-155

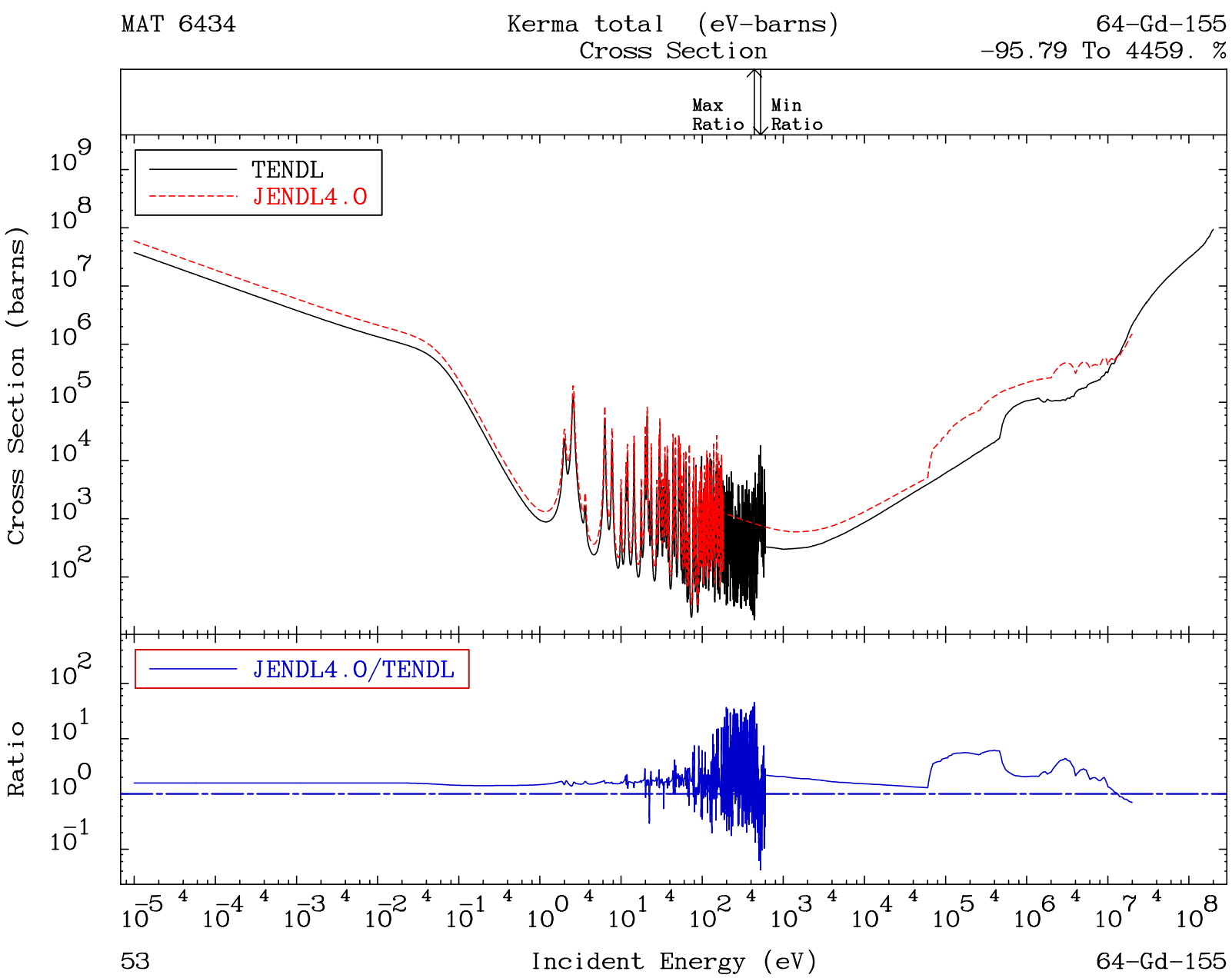

MAT 6434
Dpa elastic (mt2)
Cross Section
64-Gd-155
-28.09 To 83.29 %
Max Ratio
Min Ratio
TENDL Threshold 1.0000 keV
CENDL3.1 Threshold 950.00 eV
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
48
64-Gd-155

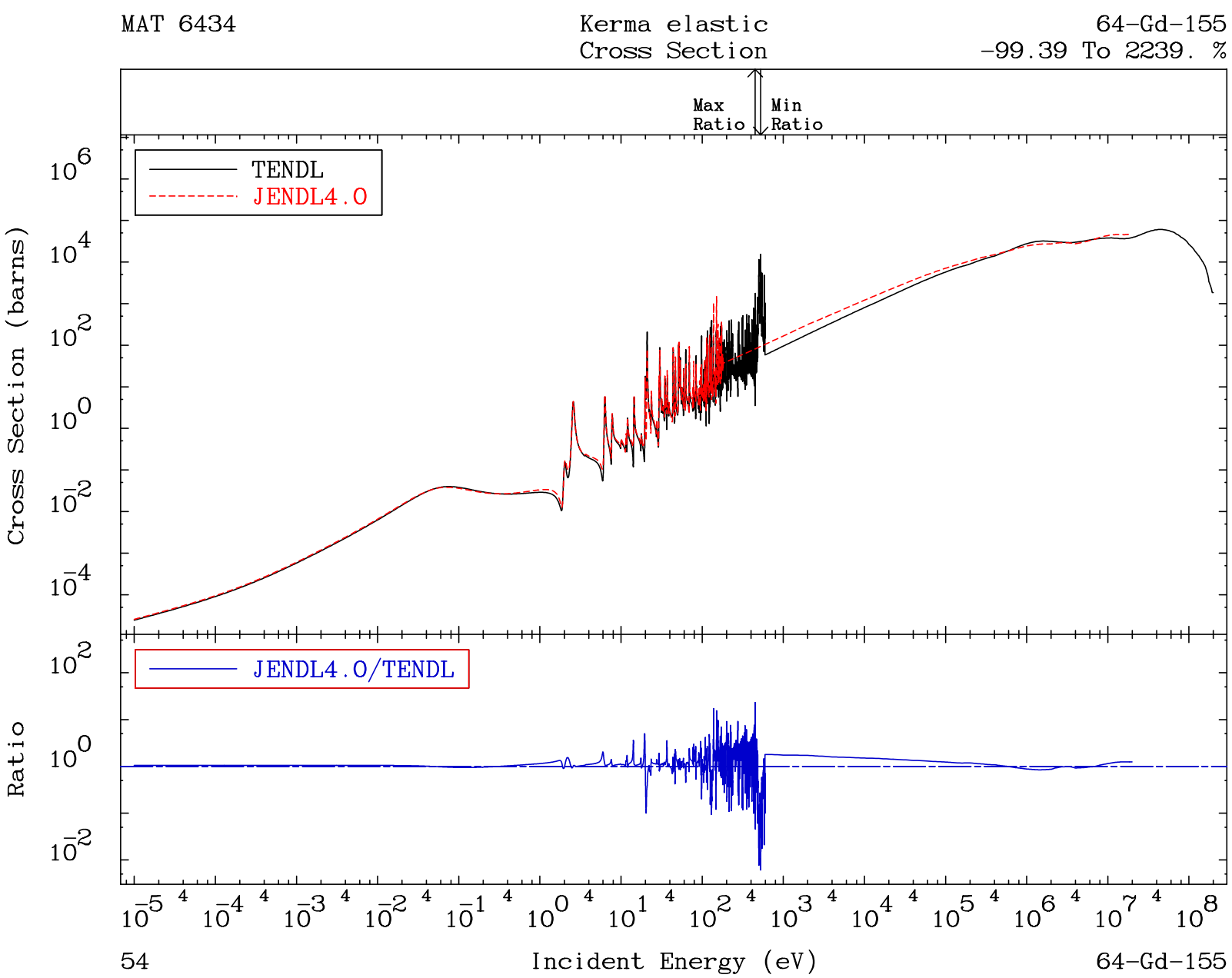

MAT 6434
Dpa inelastic (mt51-91)
Cross Section
64-Gd-155
-26.34 To 9999. %
Min
Ratio
TENDL Threshold 60.402 keV
CENDL3.1 Threshold 60.391 keV
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
49
64-Gd-155

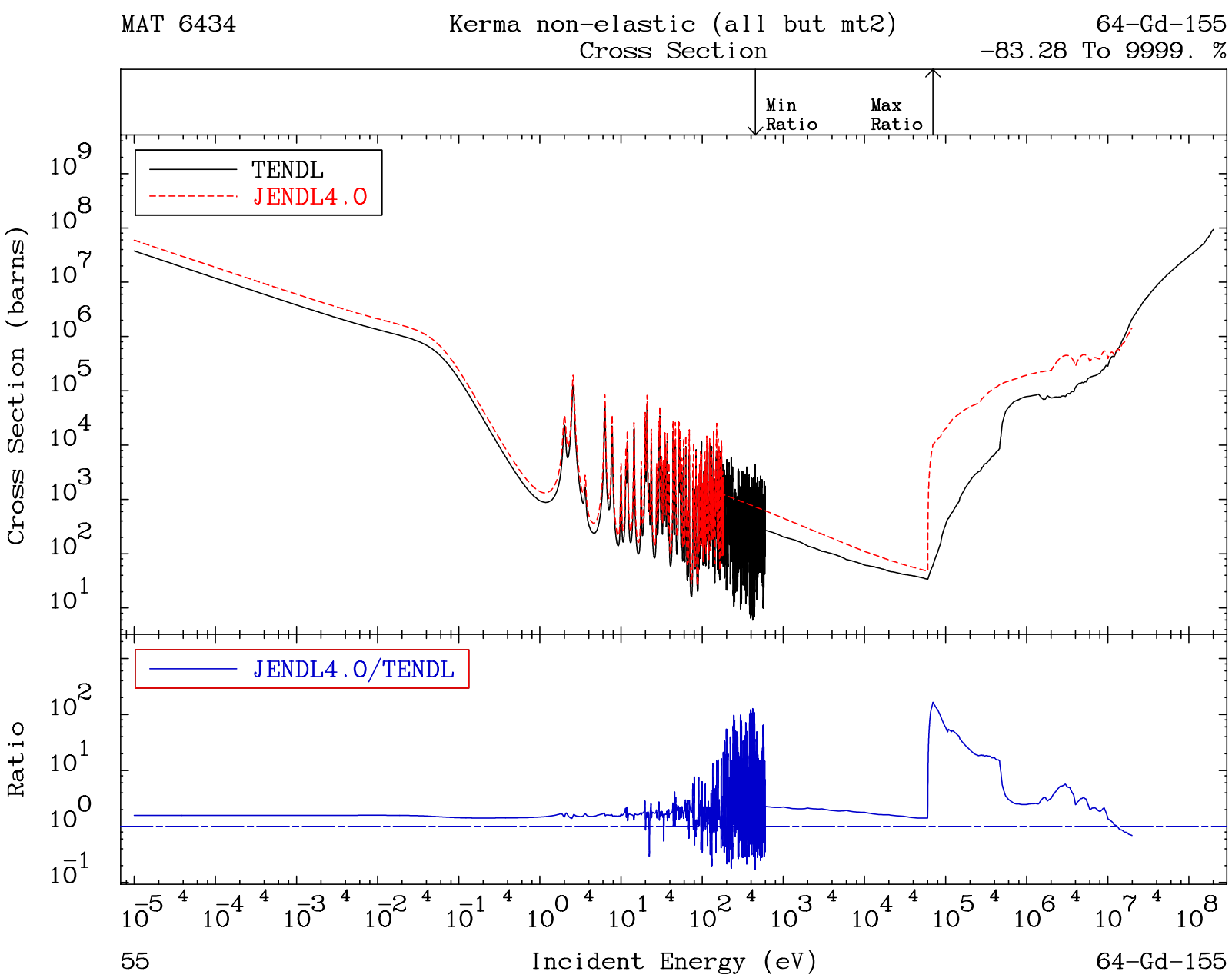

MAT 6434
Dpa disappearance (mt102 -120)
Cross Section
64-Gd-155
32.34 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
50
64-Gd-155

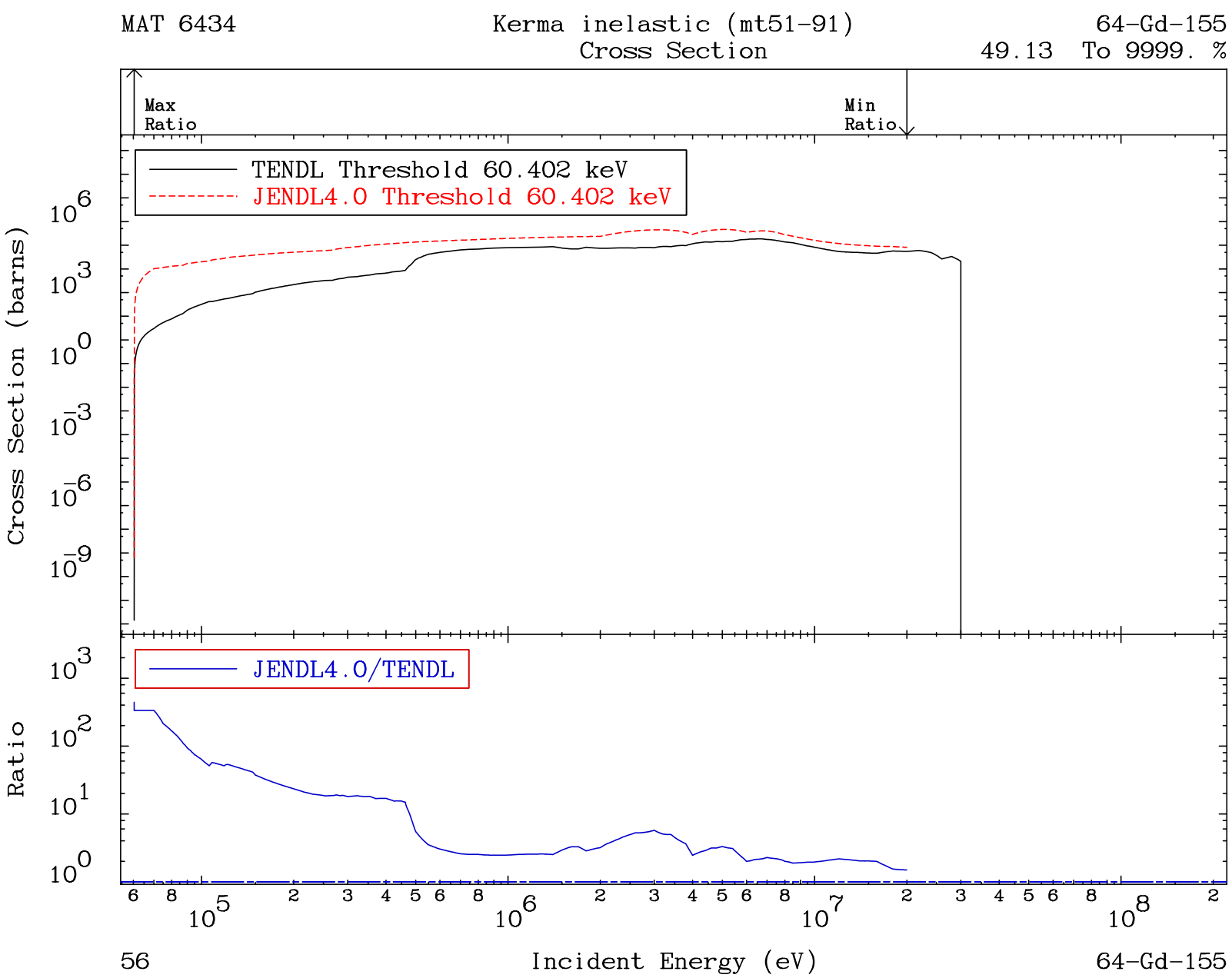

MAT 6434
He-3 Production
Cross Section
64-Gd-155
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.4116 MeV
JENDL4.0 Threshold 6.5041 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^6
10^0
10^-6
10^-12
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
64-Gd-155

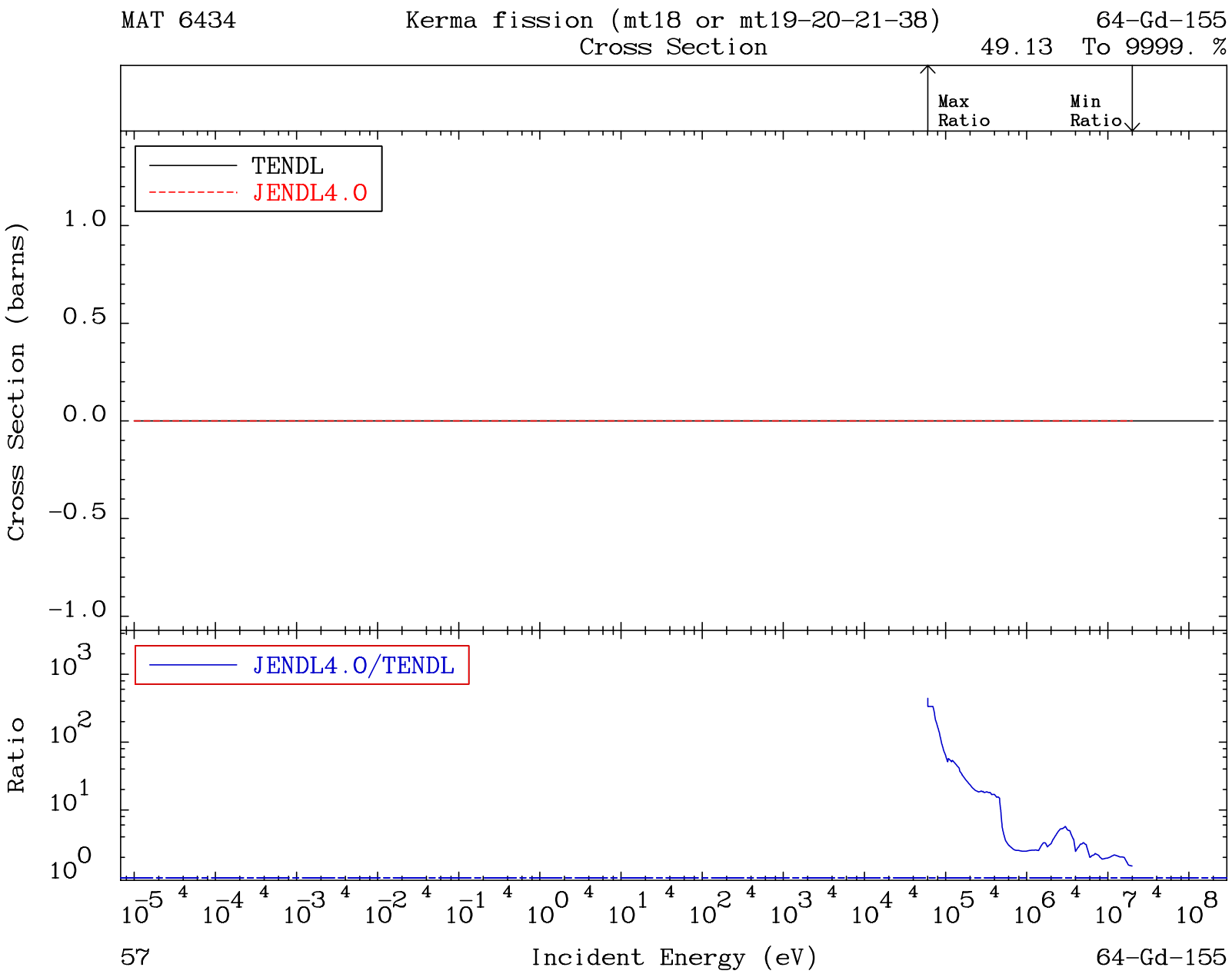

MAT 6434
He-4 Production
Cross Section
64-Gd-155
-98.67 To 445.5 %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
52
64-Gd-155

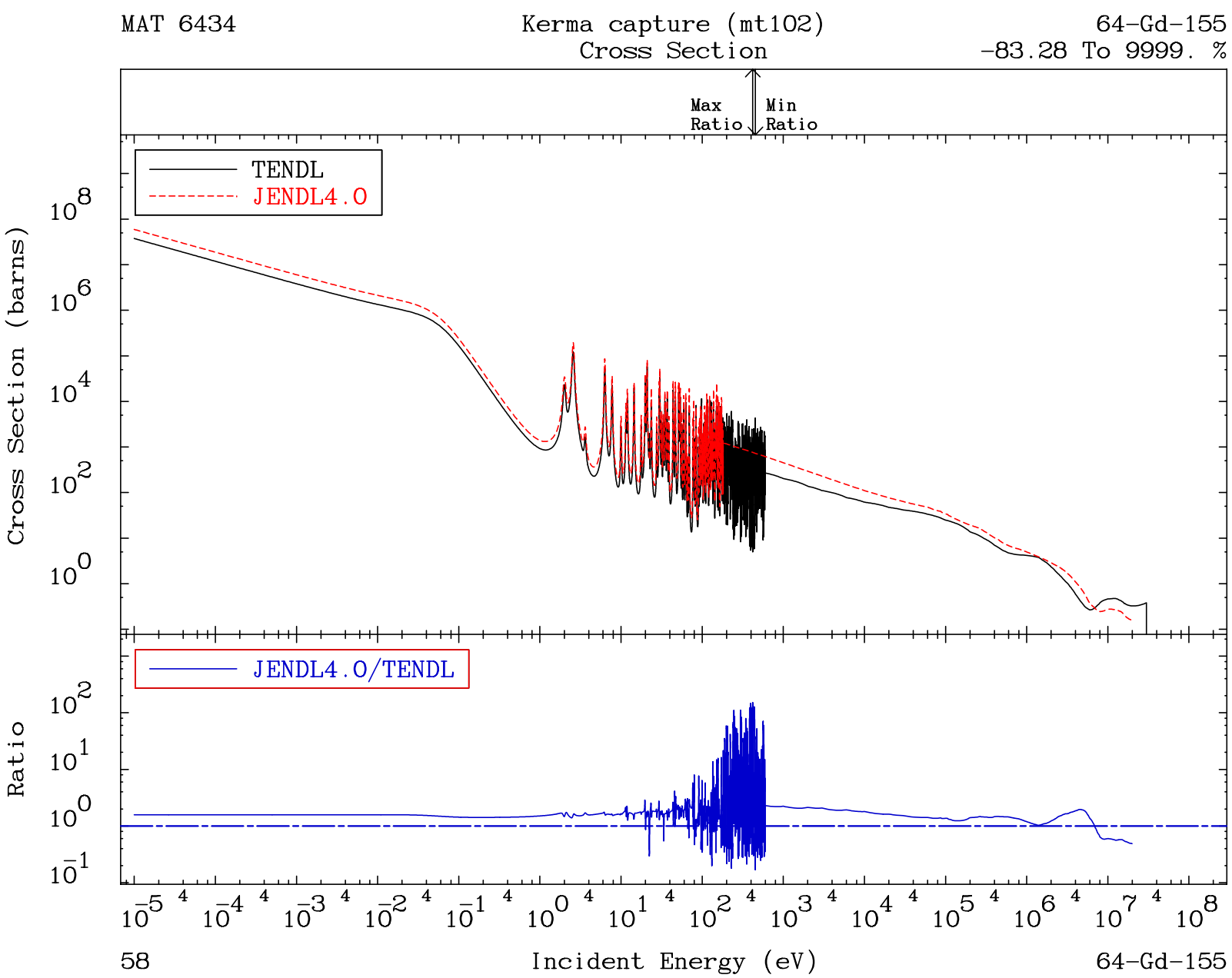

MAT 6434
Kerma total (eV-barns)
Cross Section
64-Gd-155
-95.79 To 4459. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
53
64-Gd-155

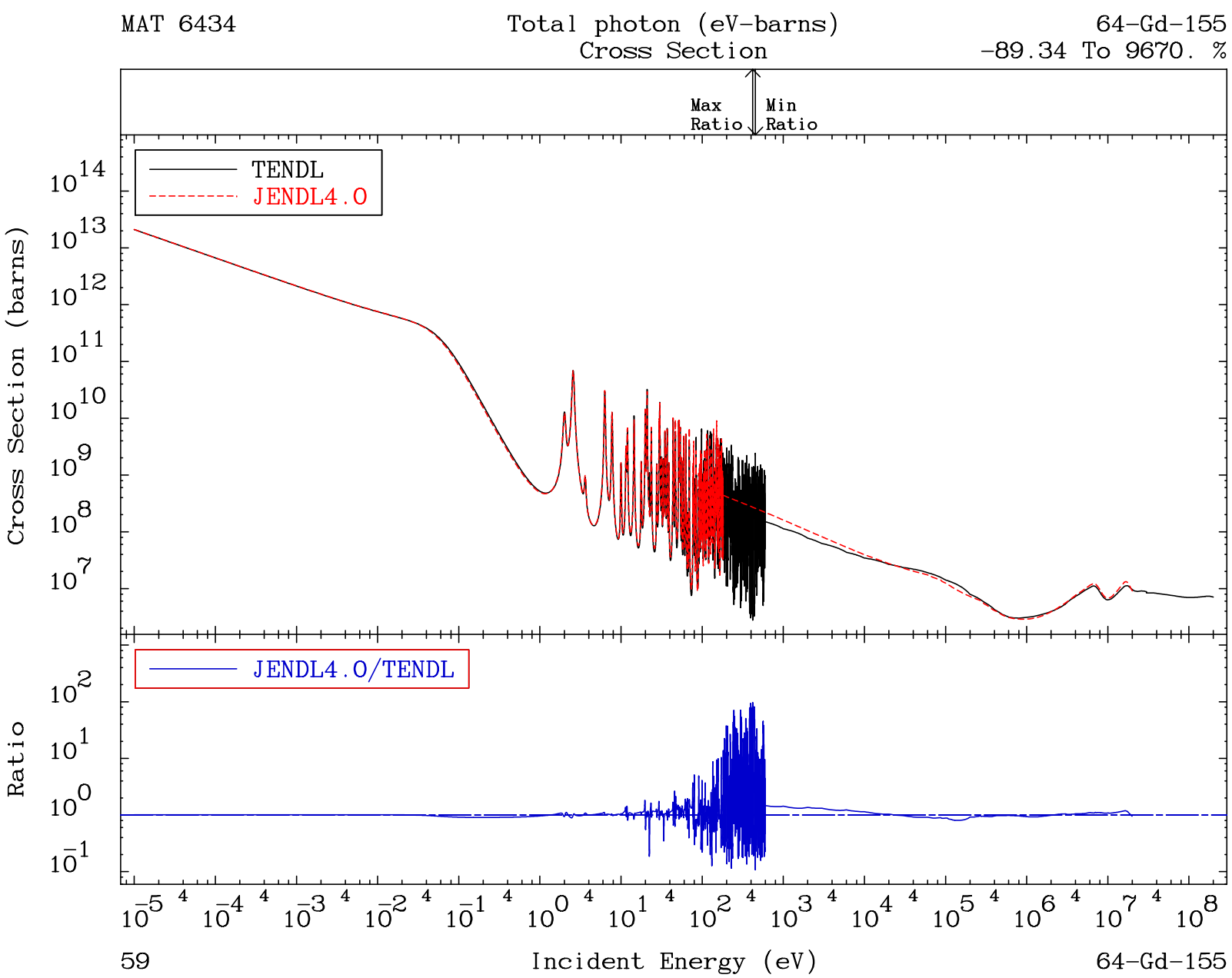

MAT 6434
Kerma elastic
Cross Section
64-Gd-155
-99.39 To 2239. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
54
64-Gd-155

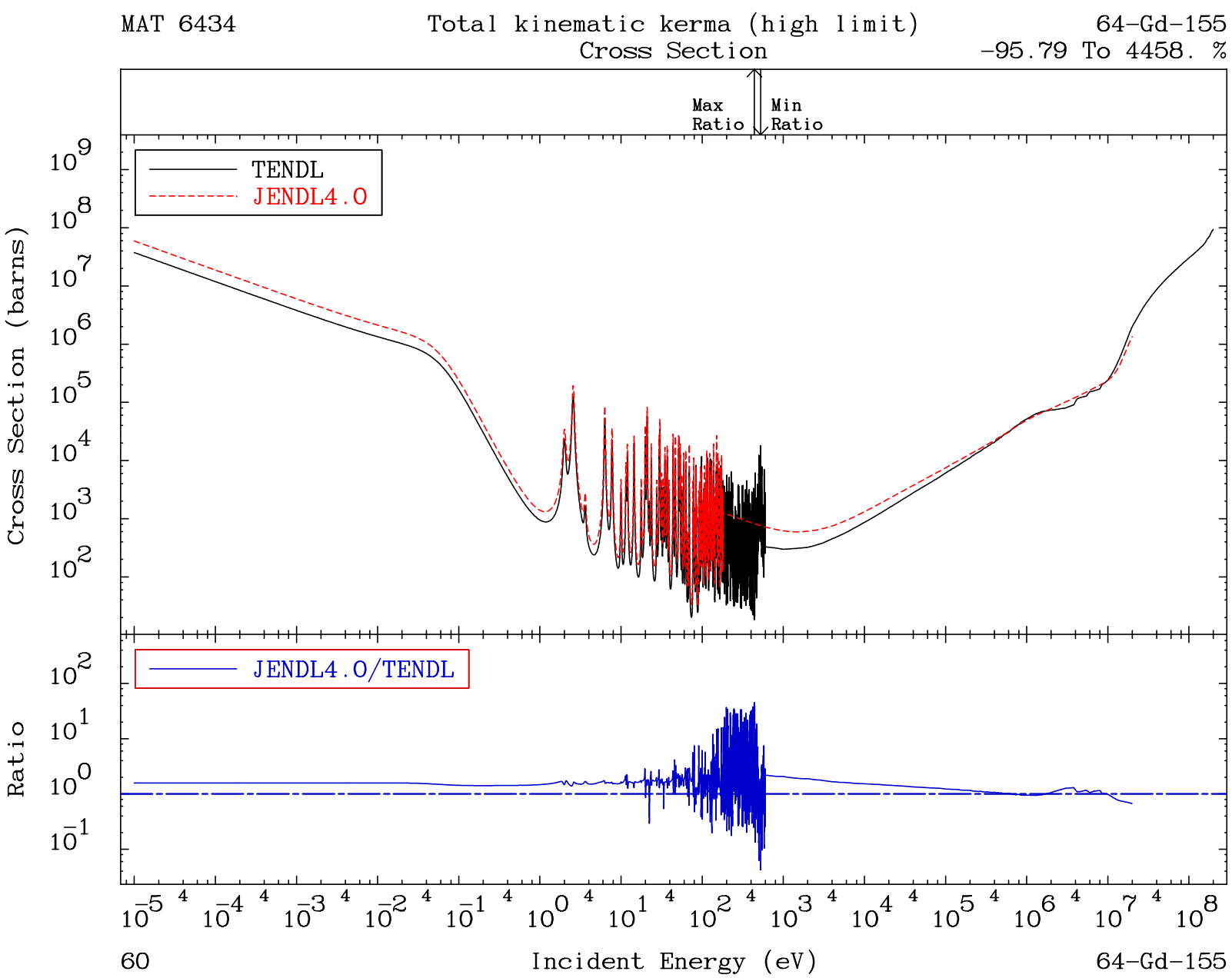

MAT 6434
Kerma non-elastic (all but mt2)
Cross Section
64-Gd-155
-83.28 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
55
64-Gd-155

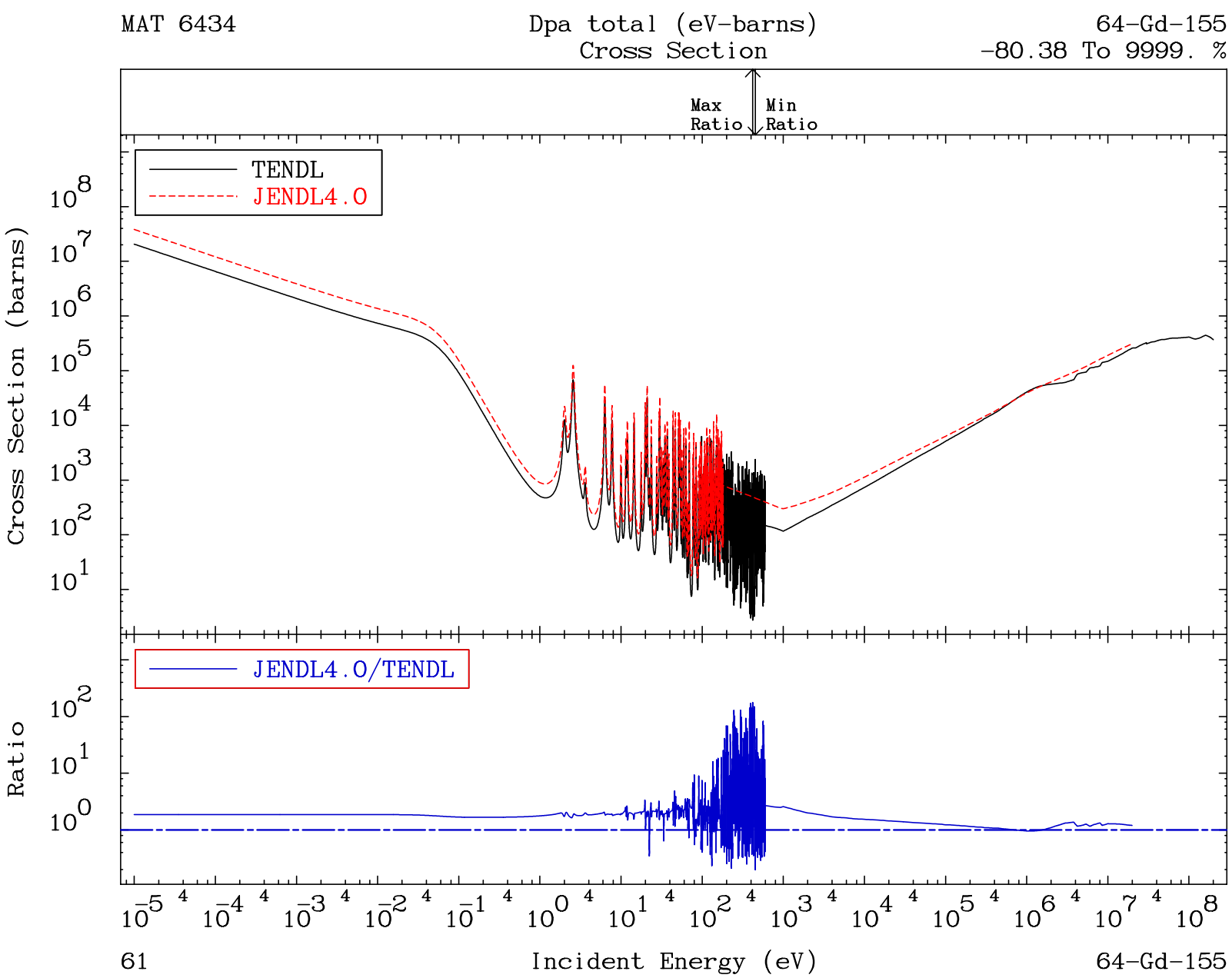

MAT 6434
Kerma inelastic (mt51-91)
Cross Section
64-Gd-155
49.13 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 60.402 keV
JENDL4.0 Threshold 60.402 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
56
64-Gd-155

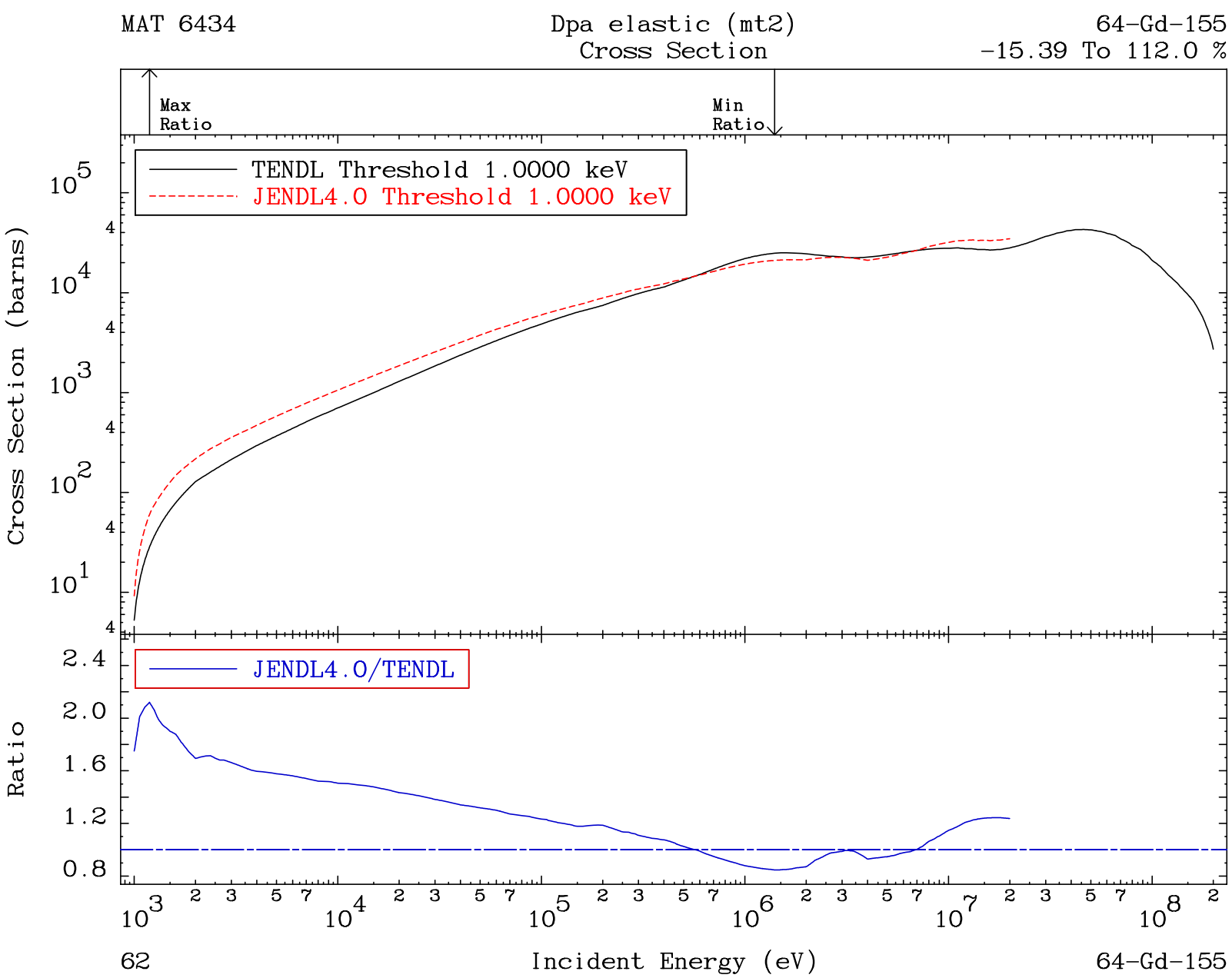

MAT 6434
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
64-Gd-155
49.13 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^3
10^2
10^1
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
57
Incident Energy (eV)
64-Gd-155

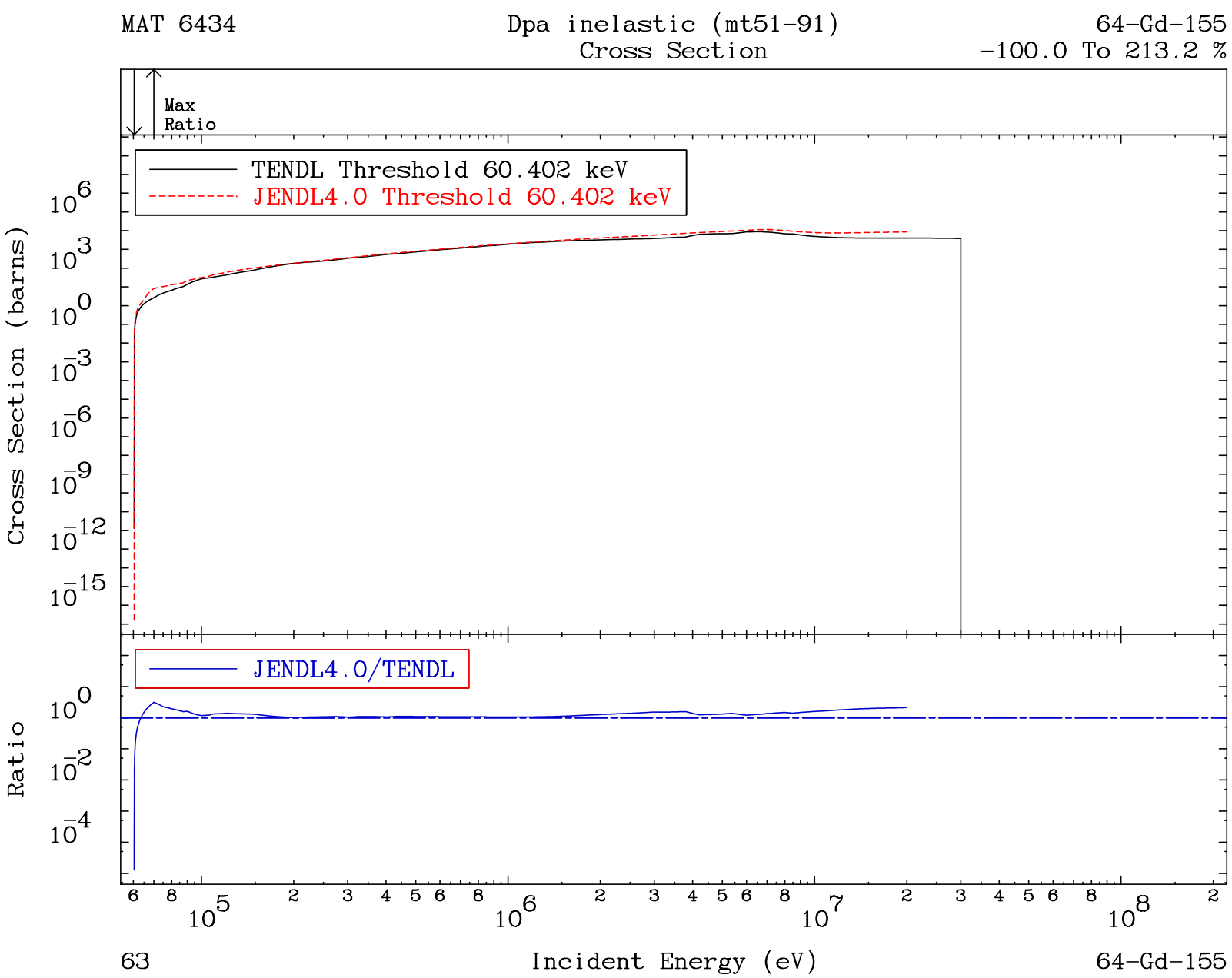

MAT 6434
Kerma capture (mt102)
Cross Section
64-Gd-155
-83.28 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
58
64-Gd-155

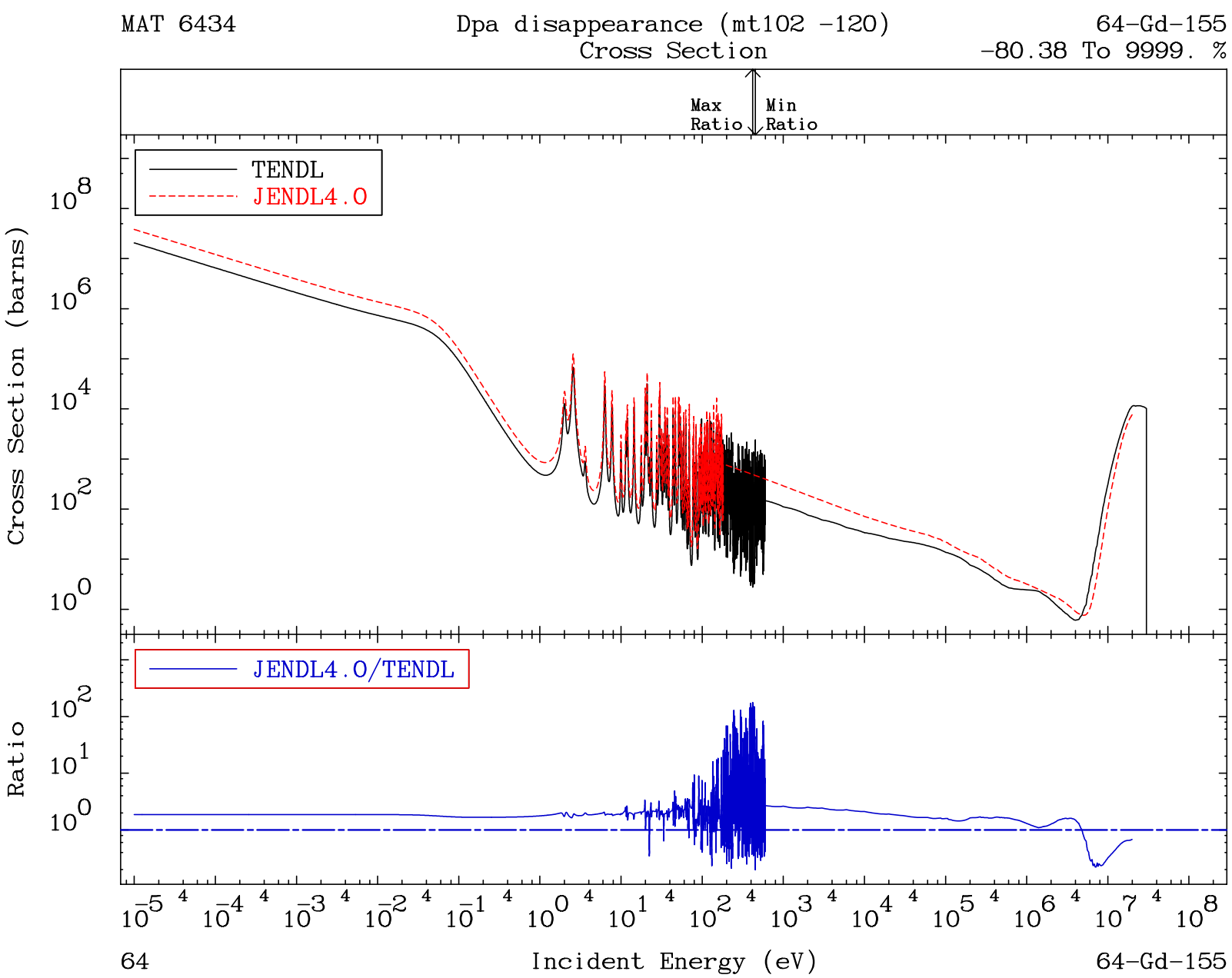

MAT 6434
Total photon (eV-barns)
Cross Section
64-Gd-155
-89.34 To 9670. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
59
64-Gd-155


MAT 6434
Total kinematic kerma (high limit)
Cross Section
64-Gd-155
-95.79 To 4458. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
60
64-Gd-155


MAT 6434
Dpa total (eV-barns)
Cross Section
64-Gd-155
-80.38 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
61
64-Gd-155


MAT 6434
Dpa elastic (mt2)
Cross Section
64-Gd-155
-15.39 To 112.0 %
Max Ratio
Min Ratio
TENDL Threshold 1.0000 keV
JENDL4.0 Threshold 1.0000 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
62
64-Gd-155


MAT 6434
Dpa inelastic (mt51-91)
Cross Section
64-Gd-155
-100.0 To 213.2 %
Max
Ratio
TENDL Threshold 60.402 keV
JENDL4.0 Threshold 60.402 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
63
64-Gd-155


MAT 6434
Dpa disappearance (mt102 -120)
Cross Section
64-Gd-155
-80.38 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
64
64-Gd-155