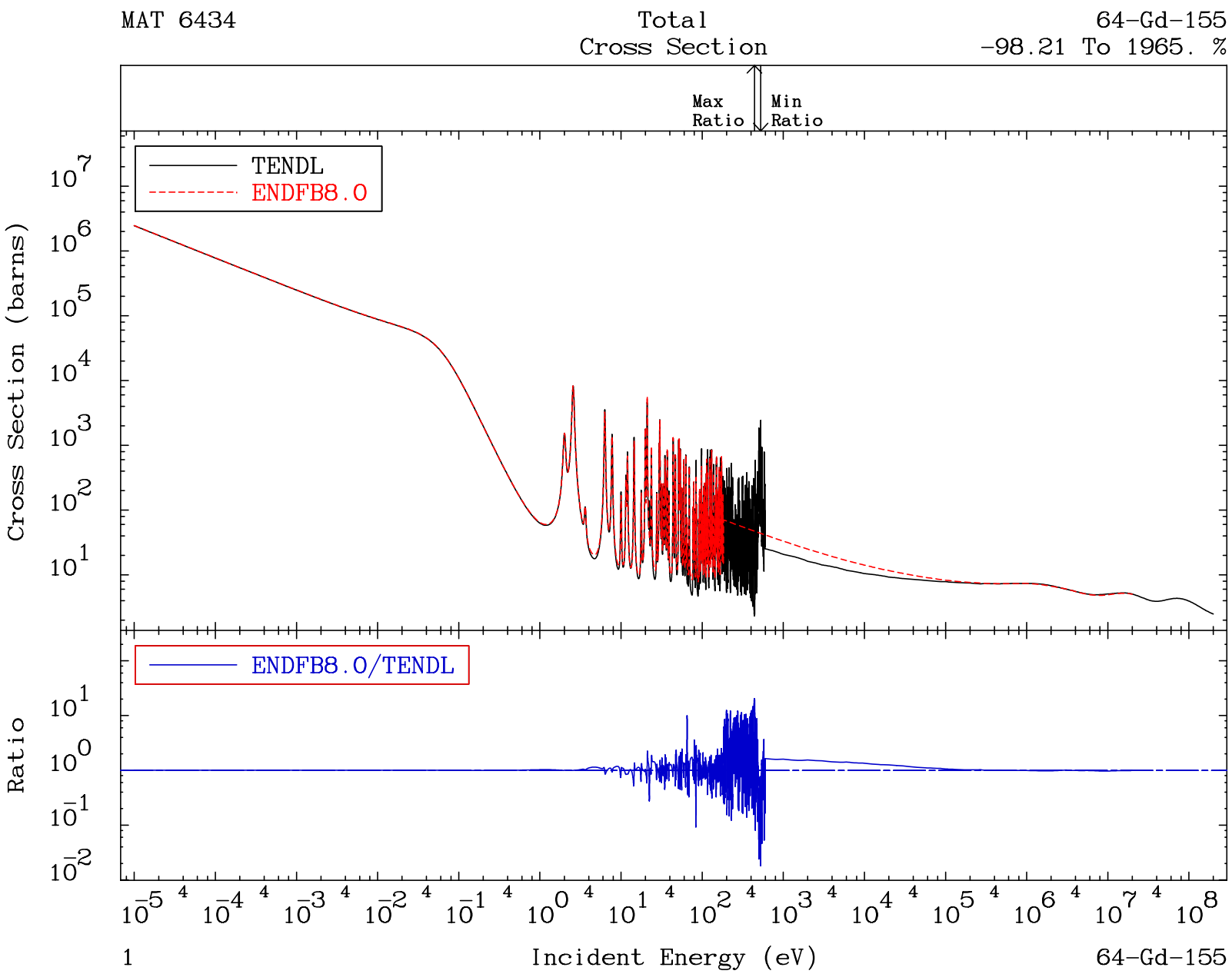
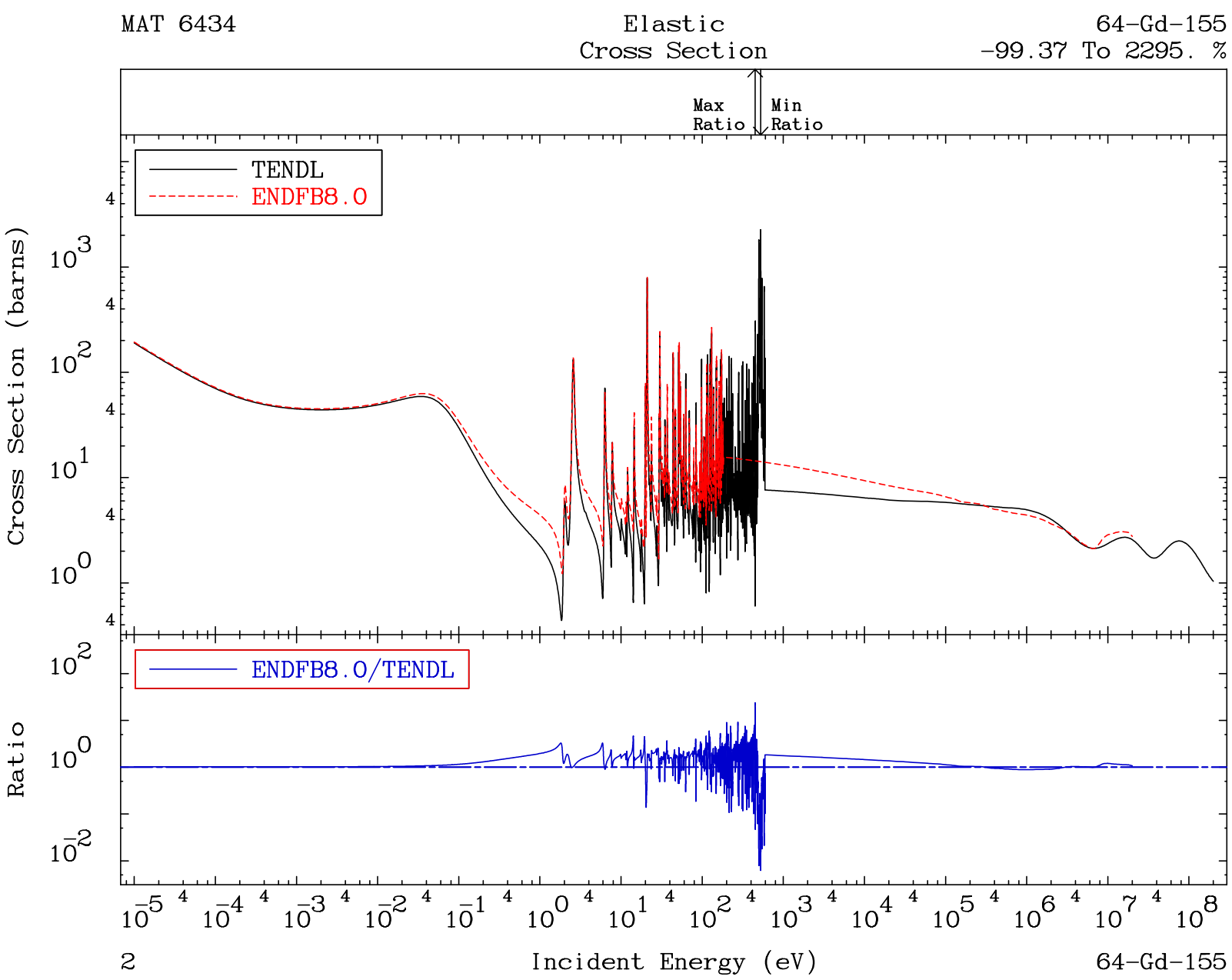
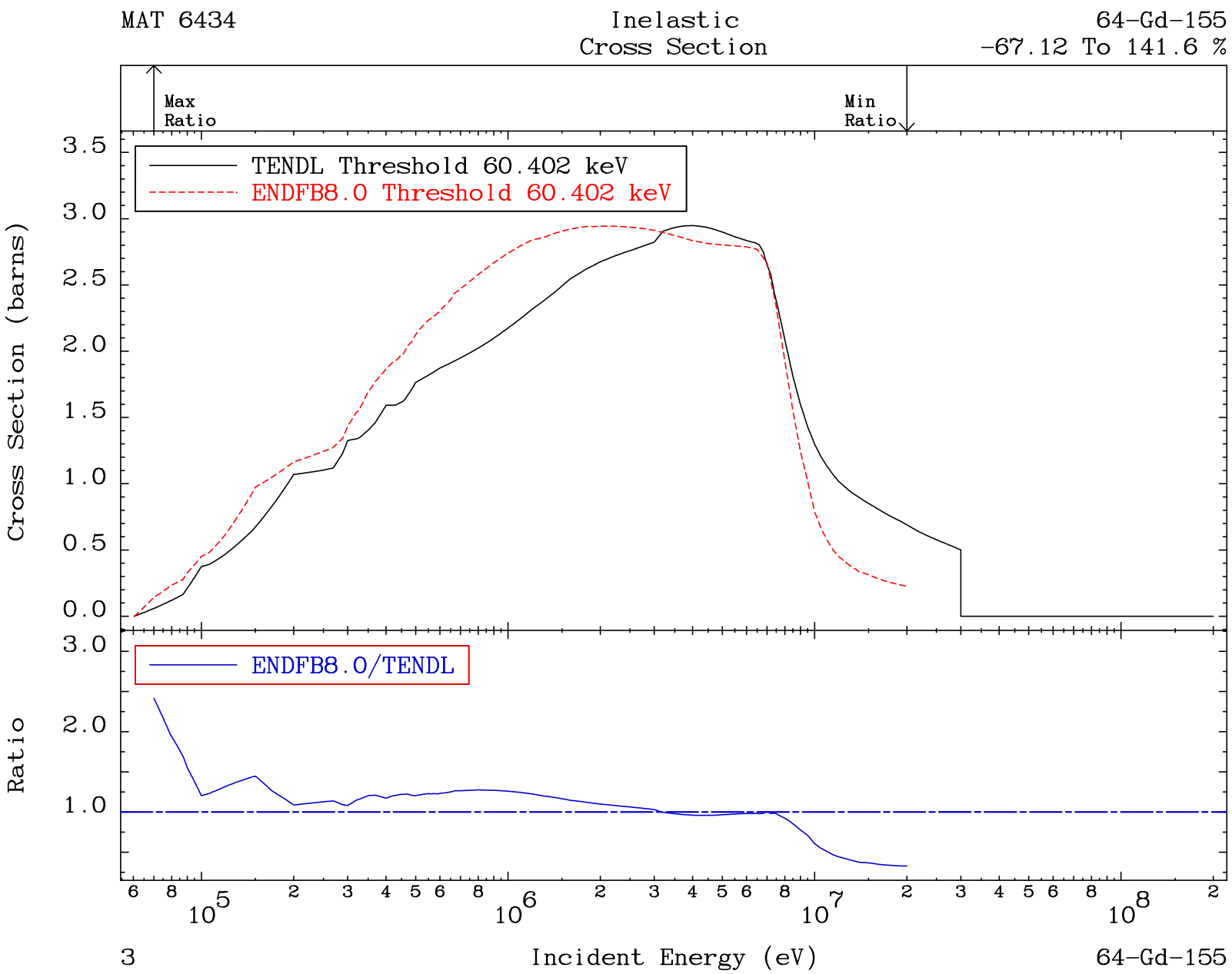
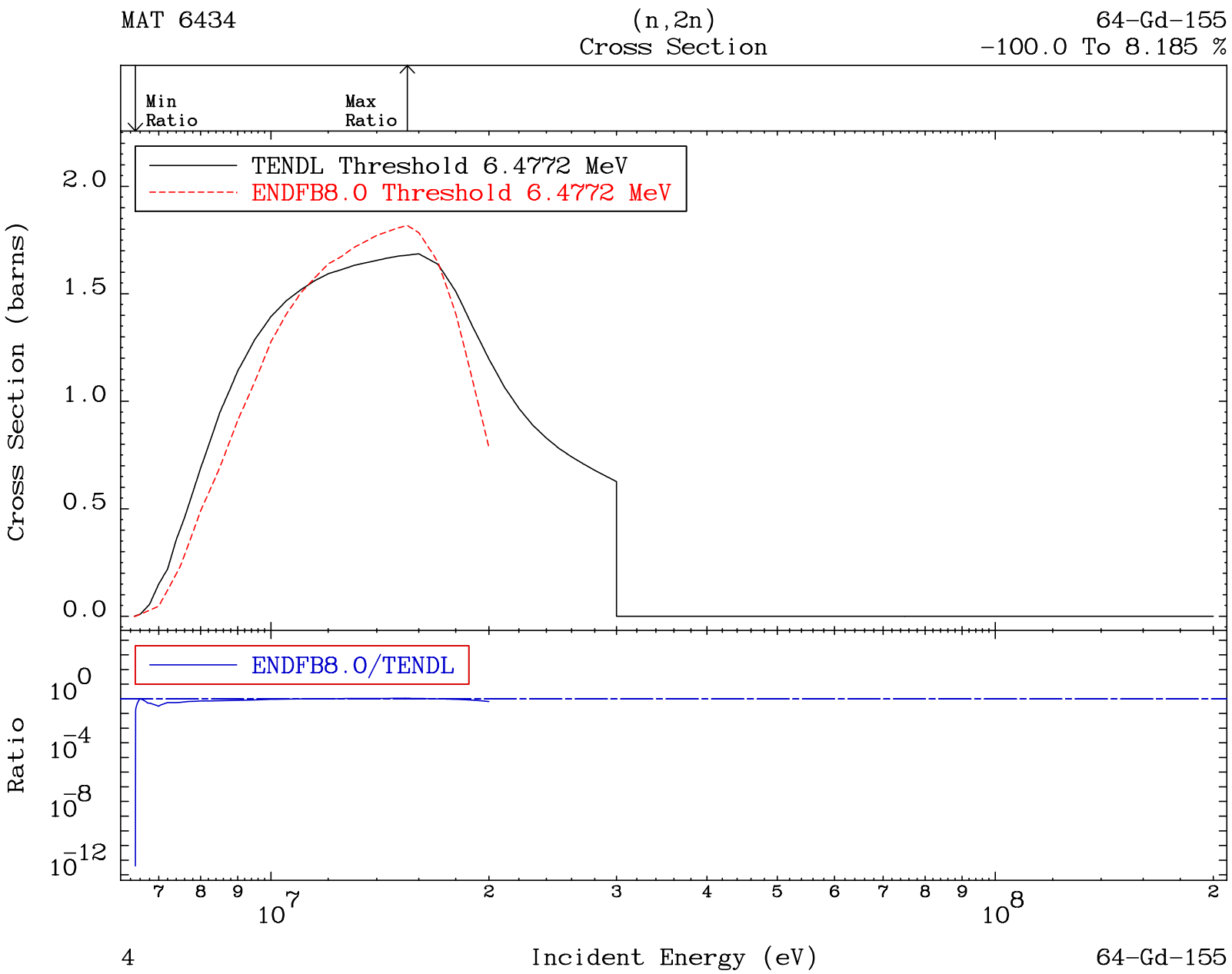
Program Complot
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

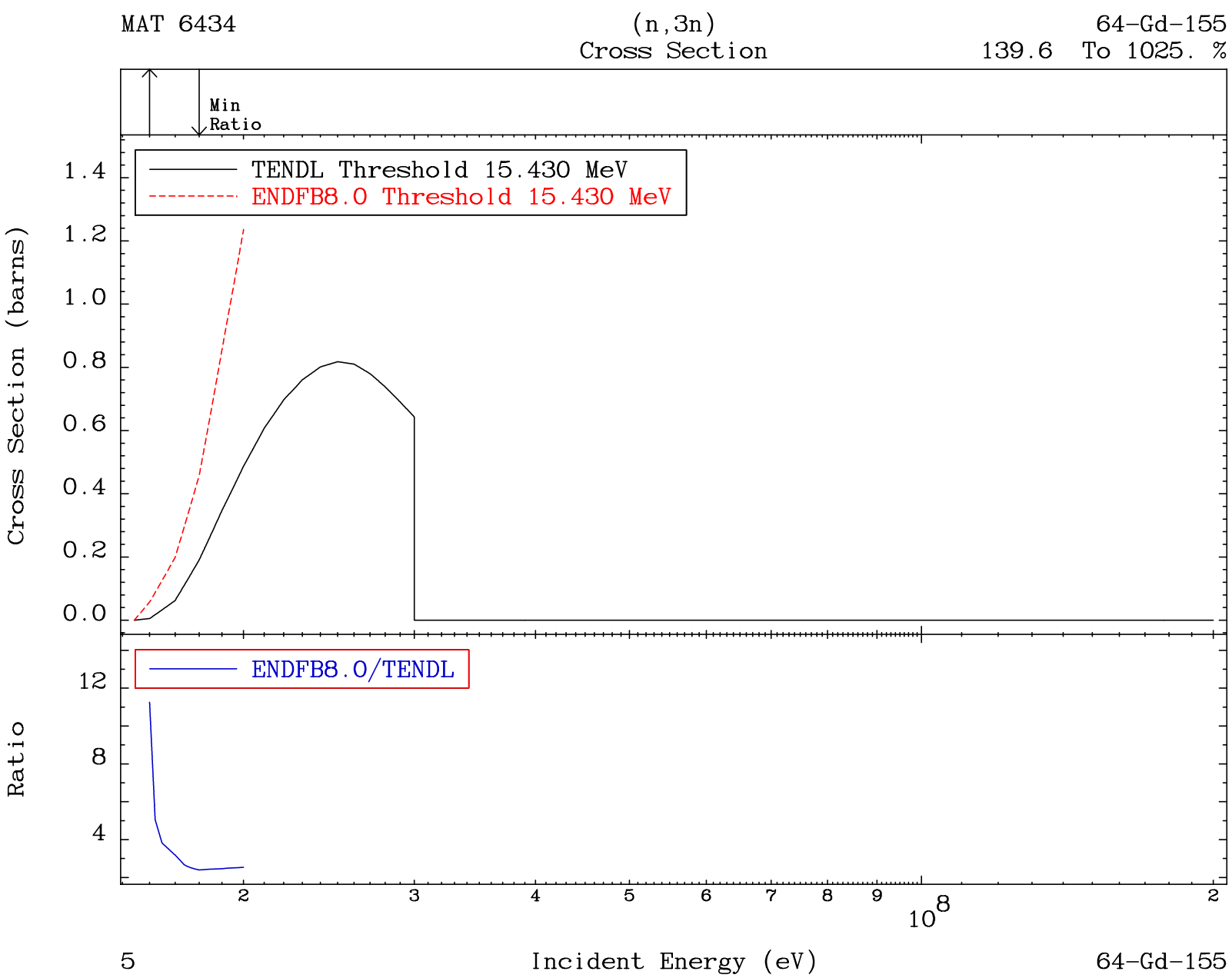
Press Mouse Button to Start

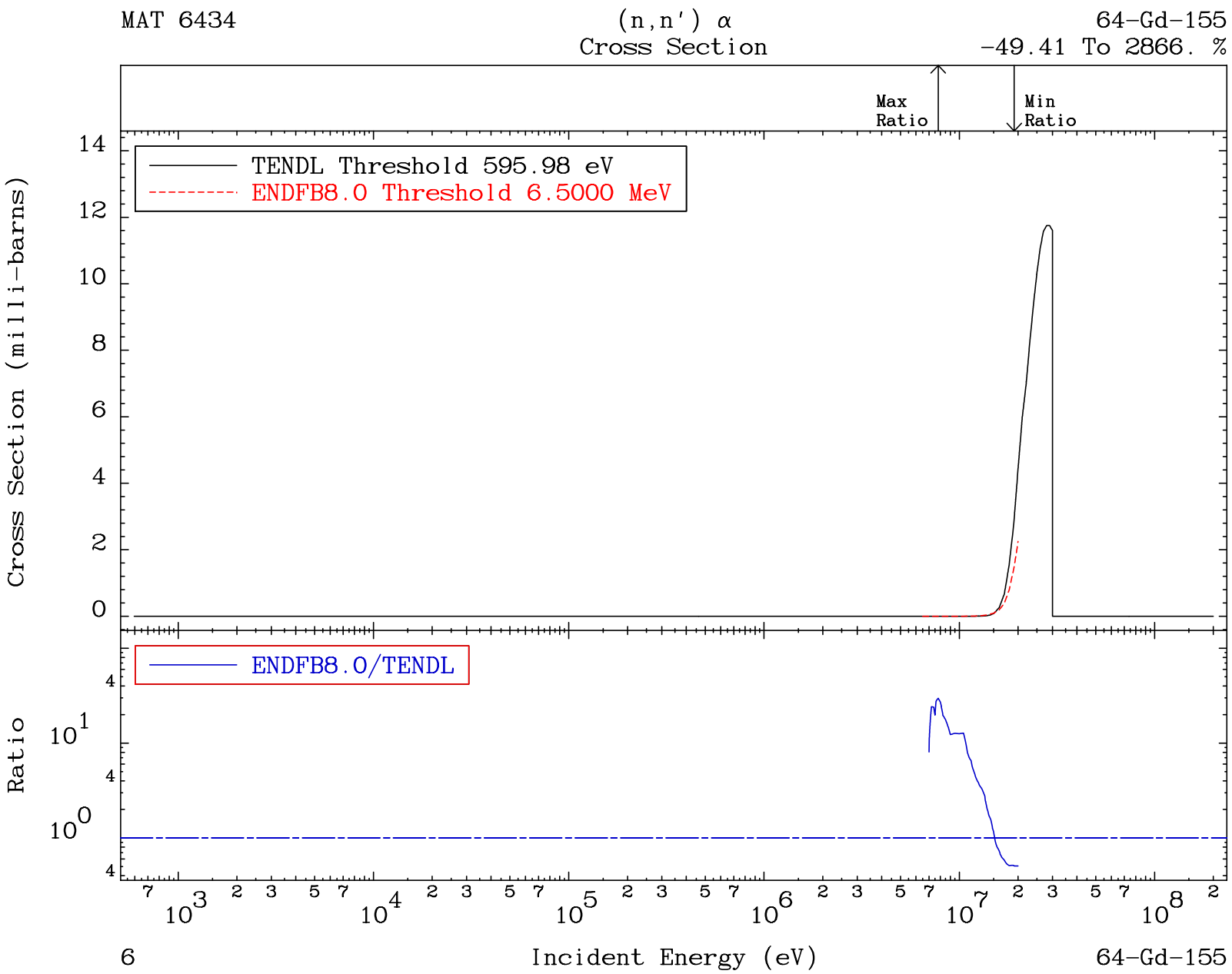

MAT 6434
Total
Cross Section
64-Gd-155
-98.21 To 1965. %
Max
Ratio
Min
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
1
64-Gd-155

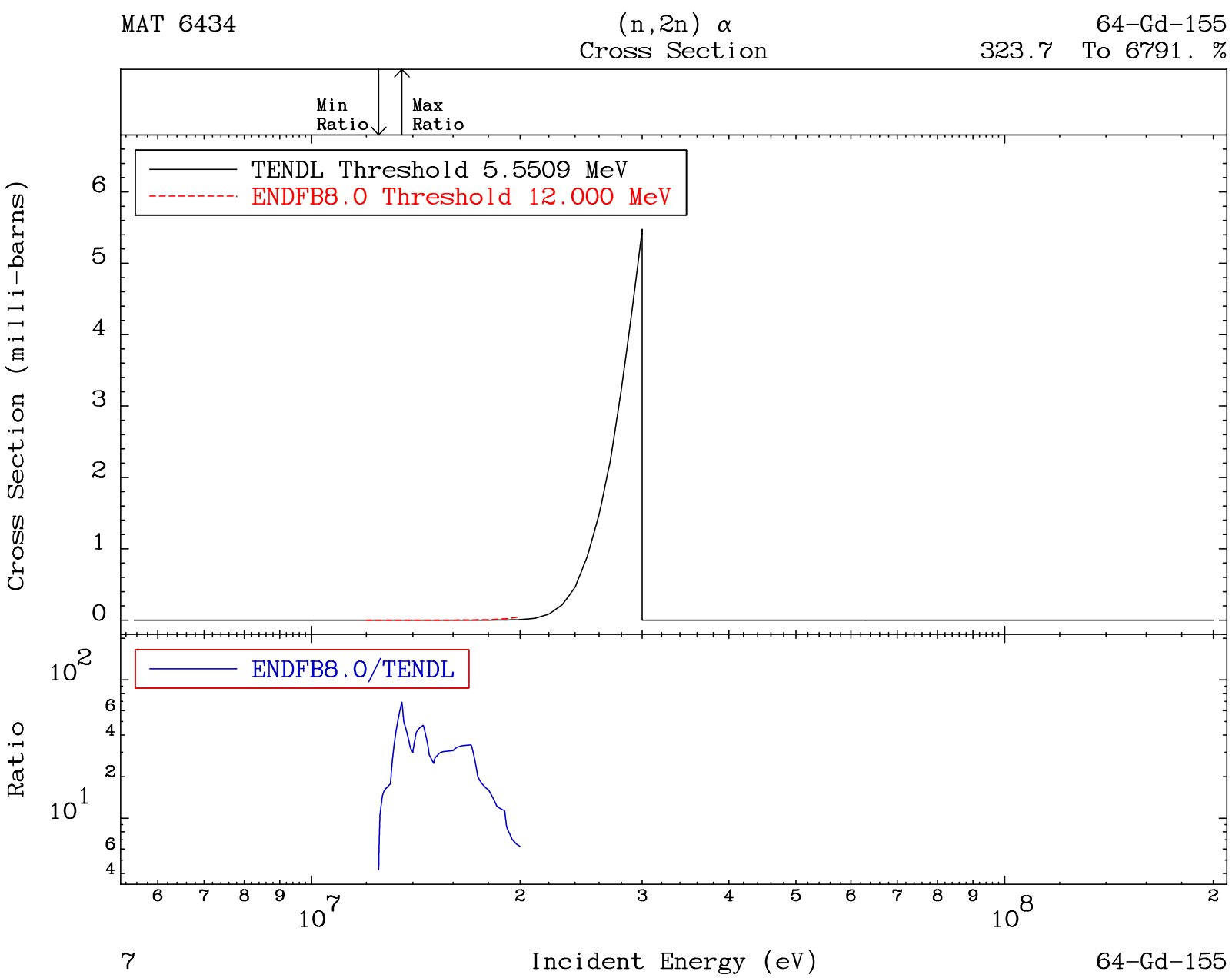

MAT 6434
Elastic
Cross Section
64-Gd-155
-99.37 To 2295. %
Max
Ratio
Min
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
64-Gd-155
2

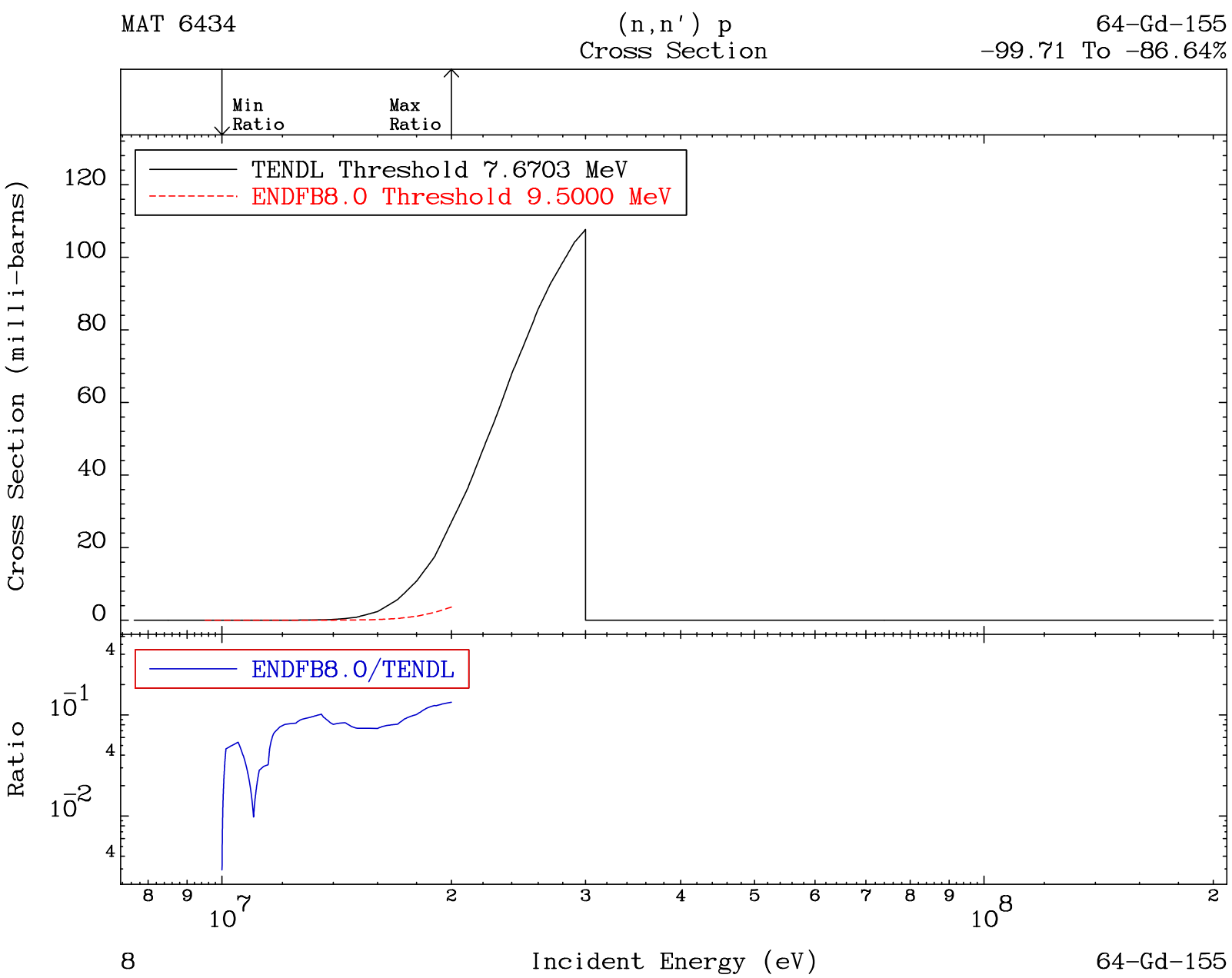

MAT 6434
Inelastic
Cross Section
64-Gd-155
-67.12 To 141.6 %
Max
Ratio
Min
Ratio
TENDL Threshold 60.402 keV
ENDFB8.0 Threshold 60.402 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
3.0
2.0
1.0
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
64-Gd-155

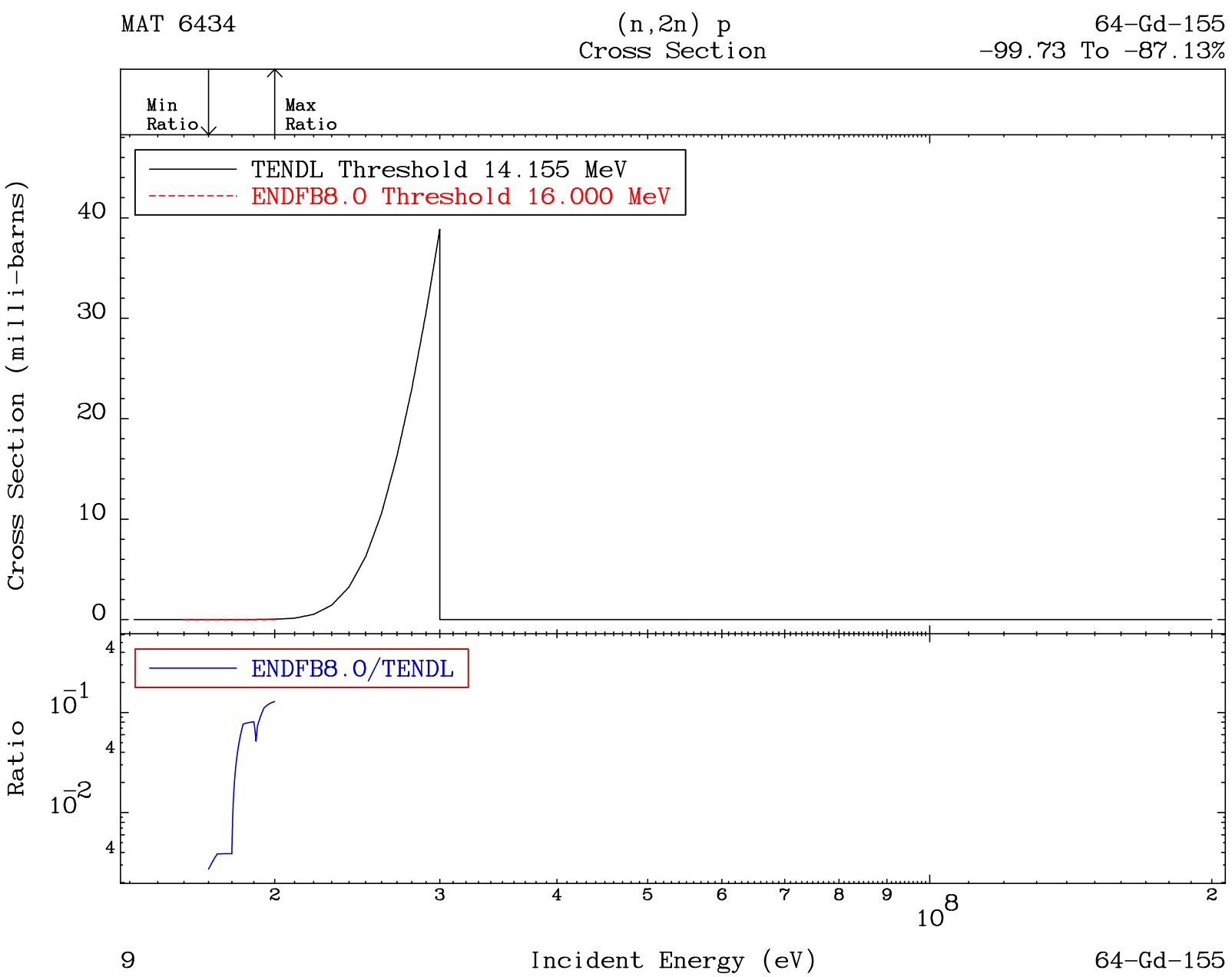

MAT 6434
(n,2n)
Cross Section
64-Gd-155
-100.0 To 8.185 %
Min Ratio
Max Ratio
TENDL Threshold 6.4772 MeV
ENDFB8.0 Threshold 6.4772 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
10^0
10^-4
10^-8
10^-12
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
64-Gd-155

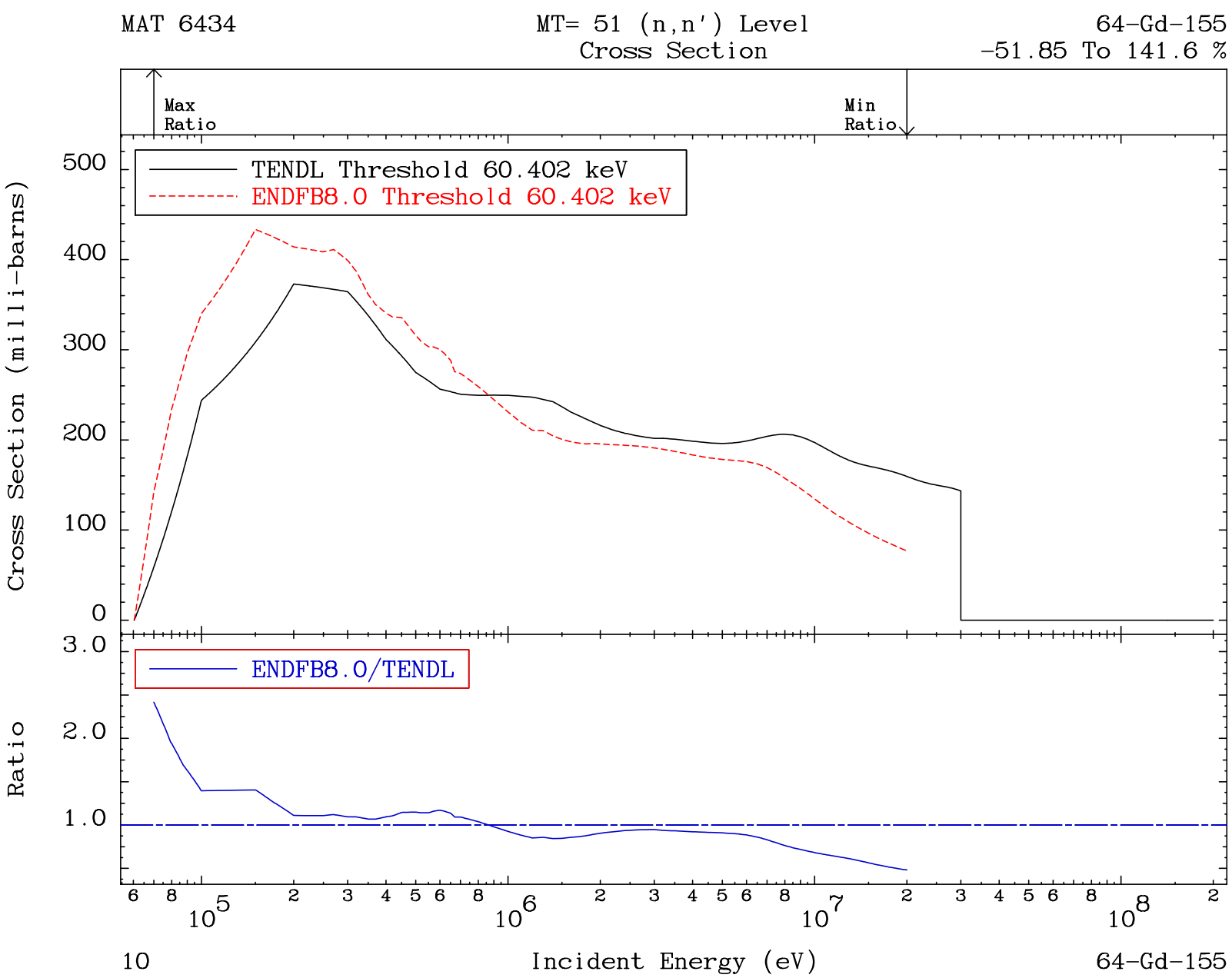

MAT 6434
(n,3n)
Cross Section
64-Gd-155
139.6 To 1025. %
Min
Ratio
TENDL Threshold 15.430 MeV
ENDFB8.0 Threshold 15.430 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
12
8
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
64-Gd-155

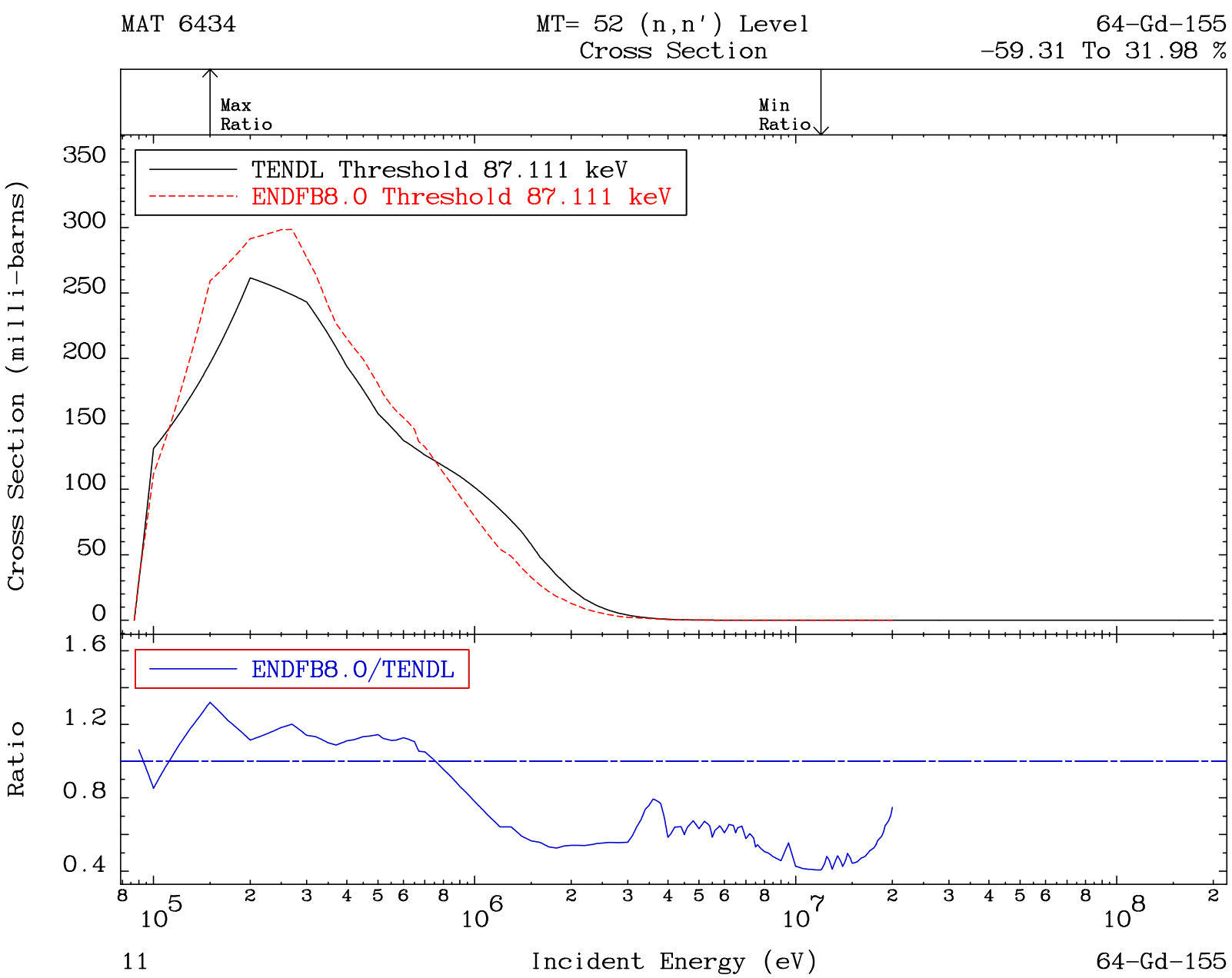

MAT 6434
(n,n') α
Cross Section
64-Gd-155
-49.41 To 2866. %
Max Ratio
Min Ratio
TENDL Threshold 595.98 eV
ENDFB8.0 Threshold 6.5000 MeV
Cross Section (milli-barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
6
64-Gd-155

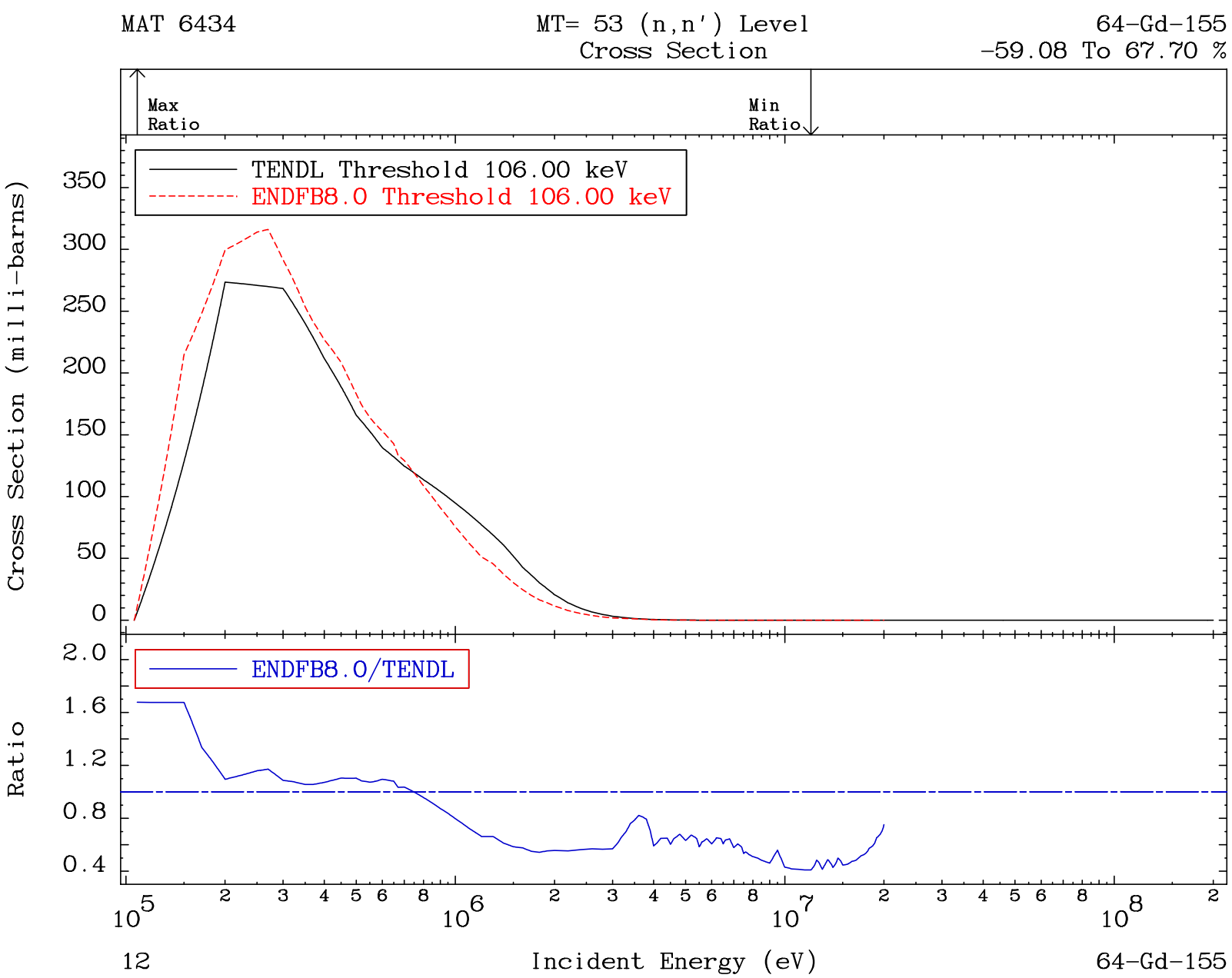

MAT 6434
(n,2n) α
Cross Section
64-Gd-155
323.7 To 6791. %
Min Ratio
Max Ratio
TENDL Threshold 5.5509 MeV
ENDFB8.0 Threshold 12.000 MeV
Cross Section (milli-barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
64-Gd-155

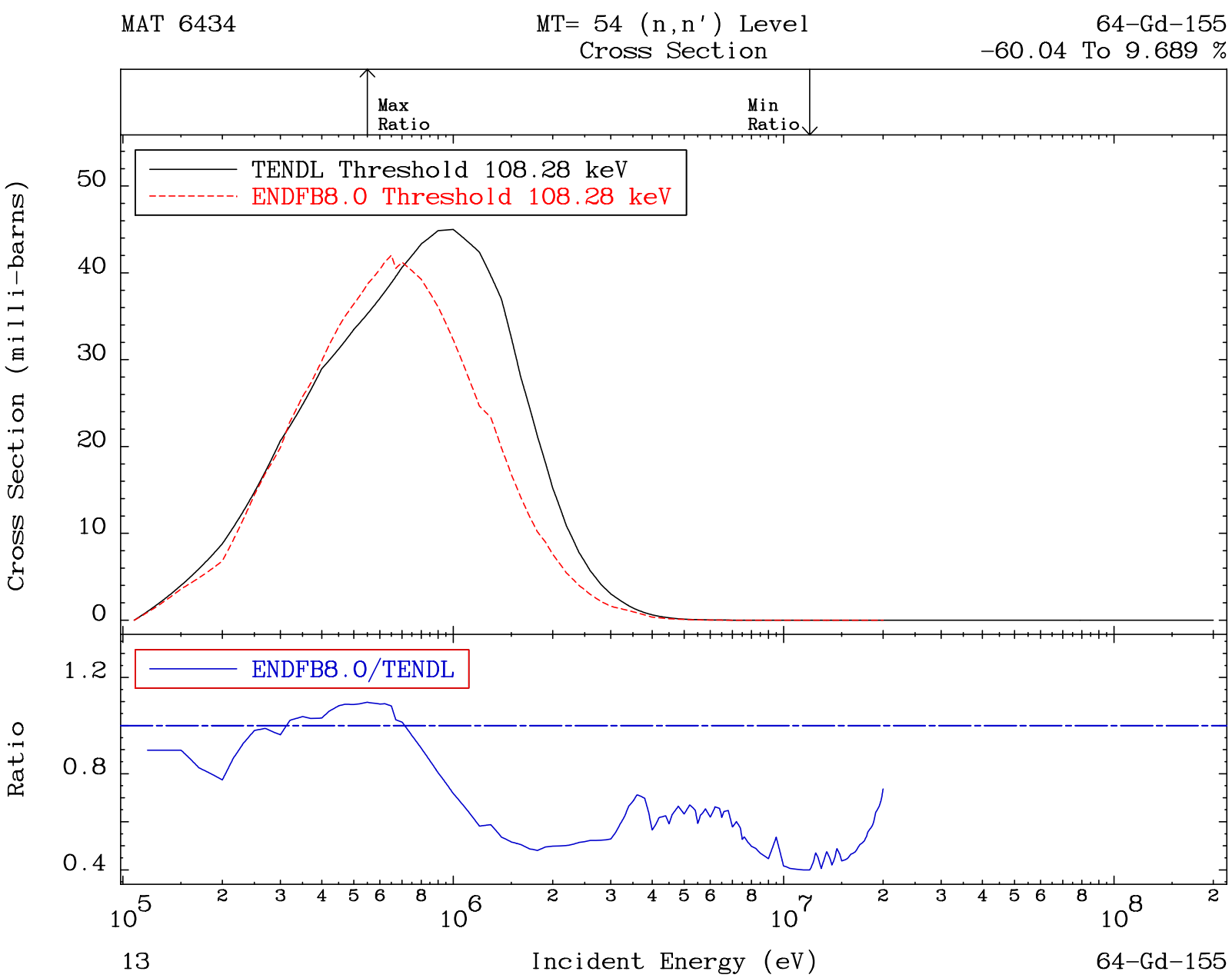

MAT 6434
(n,n') p
Cross Section
64-Gd-155
-99.71 To -86.64%
Min Ratio
Max Ratio
TENDL Threshold 7.6703 MeV
ENDFB8.0 Threshold 9.5000 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
4
10-1
4
10-2
4
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
64-Gd-155

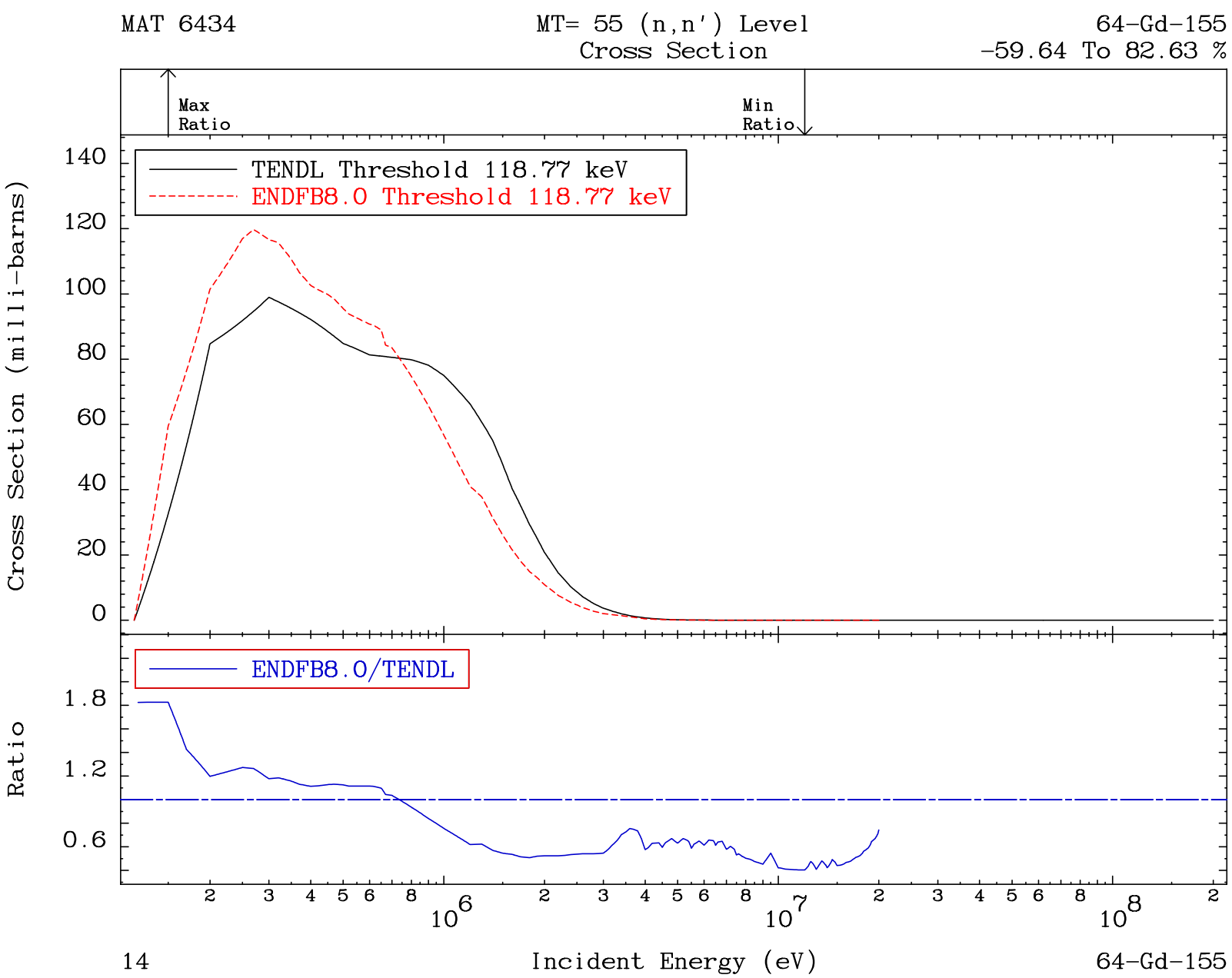

MAT 6434
(n,2n) p
Cross Section
64-Gd-155
-99.73 To -87.13%
Min Ratio
Max Ratio
TENDL Threshold 14.155 MeV
ENDFB8.0 Threshold 16.000 MeV
Cross Section (milli-barns)
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
4
10-1
4
10-2
4
2
3
4
5
6
7
8
9
10 8
2
9
Incident Energy (eV)
64-Gd-155

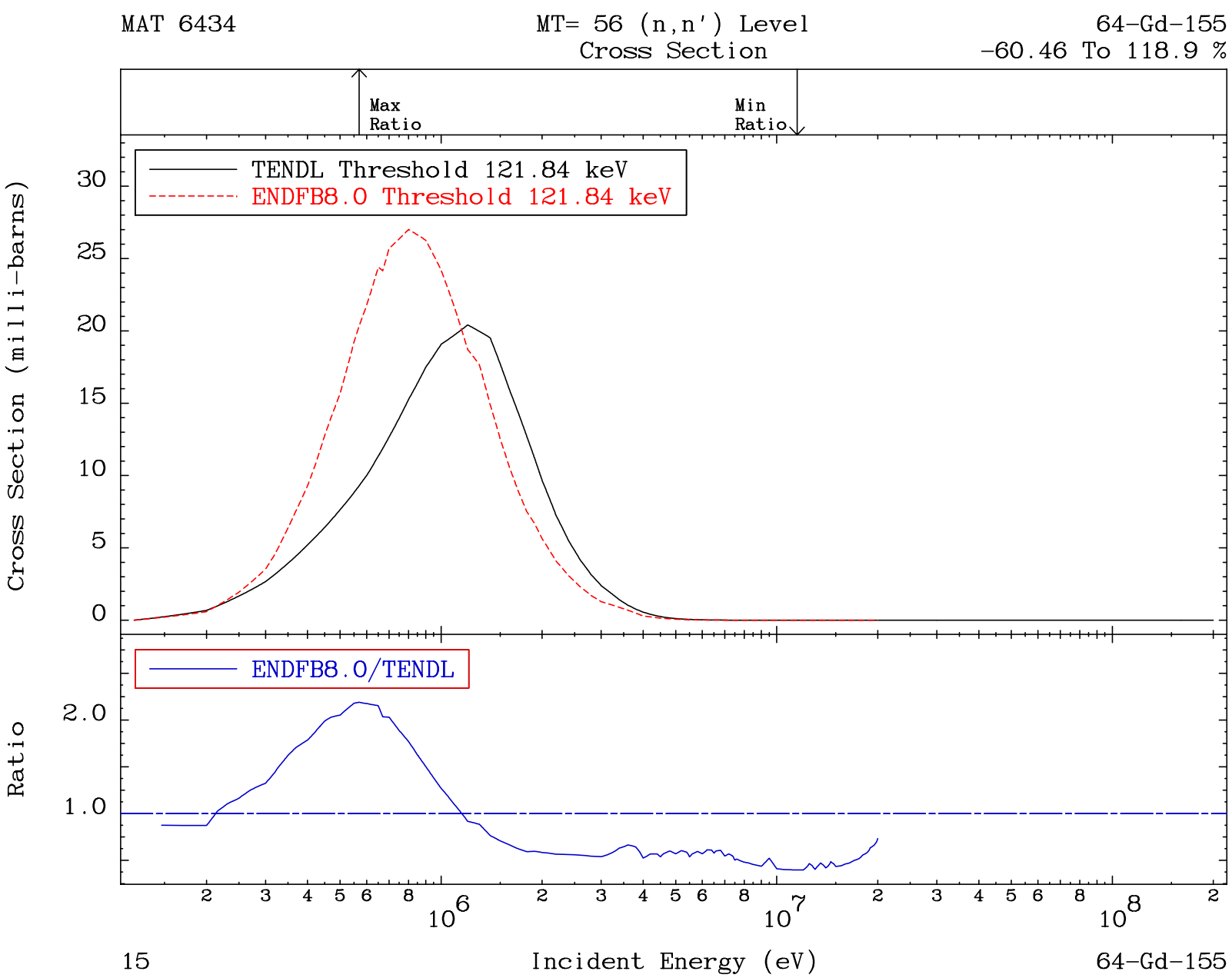

MAT 6434
MT= 51 (n,n') Level
Cross Section
64-Gd-155
-51.85 To 141.6 %
Max
Ratio
Min
Ratio
TENDL Threshold 60.402 keV
ENDFB8.0 Threshold 60.402 keV
Cross Section (milli-barns)
500
400
300
200
100
0
ENDFB8.0/TENDL
Ratio
3.0
2.0
1.0
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
64-Gd-155

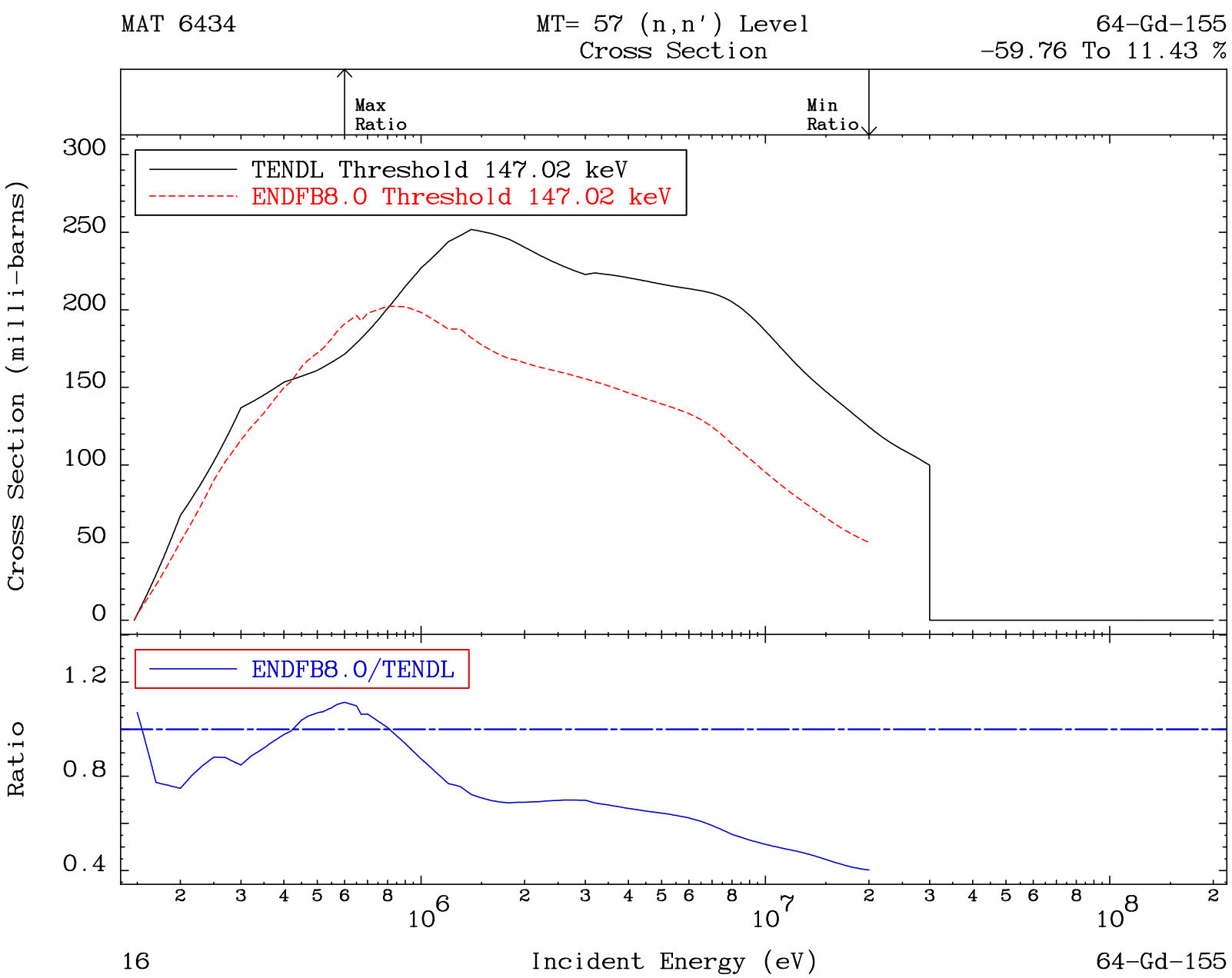

MAT 6434
MT= 52 (n,n') Level
Cross Section
64-Gd-155
-59.31 To 31.98 %
Max
Ratio
Min
Ratio
TENDL Threshold 87.111 keV
ENDFB8.0 Threshold 87.111 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
8
2
3
4
5
6
8
10^5
10^6
10^7
10^8
11
Incident Energy (eV)
64-Gd-155

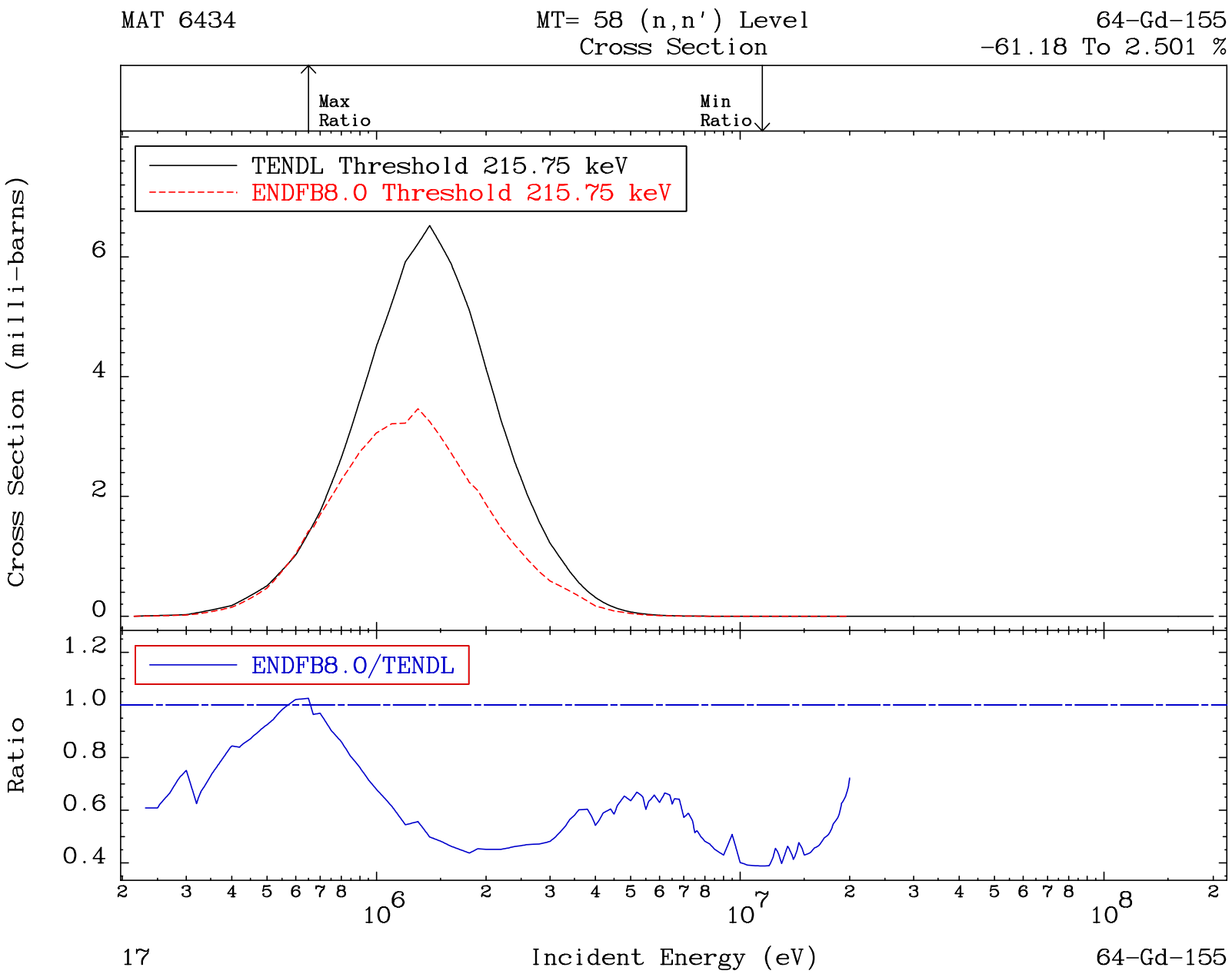

MAT 6434
MT= 53 (n,n') Level
Cross Section
64-Gd-155
-59.08 To 67.70 %
Max
Ratio
Min
Ratio
TENDL Threshold 106.00 keV
ENDFB8.0 Threshold 106.00 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
2.0
1.6
1.2
0.8
0.4
10^5
10^6
10^7
10^8
12
Incident Energy (eV)
64-Gd-155

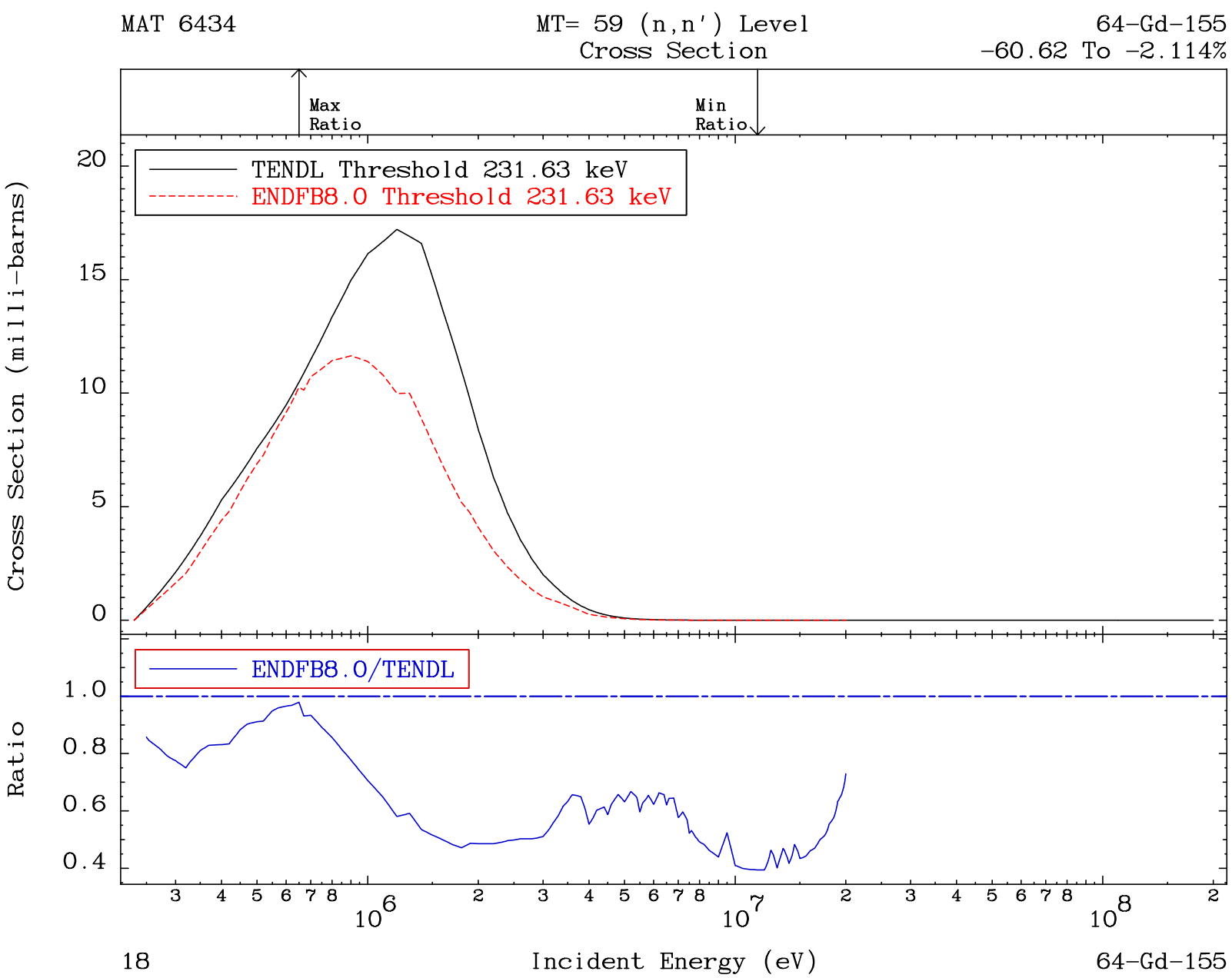

MAT 6434
MT= 54 (n,n') Level
Cross Section
64-Gd-155
-60.04 To 9.689 %
Max
Ratio
Min
Ratio
TENDL Threshold 108.28 keV
ENDFB8.0 Threshold 108.28 keV
Cross Section (milli-barns)
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
10^5
10^6
10^7
10^8
13
Incident Energy (eV)
64-Gd-155

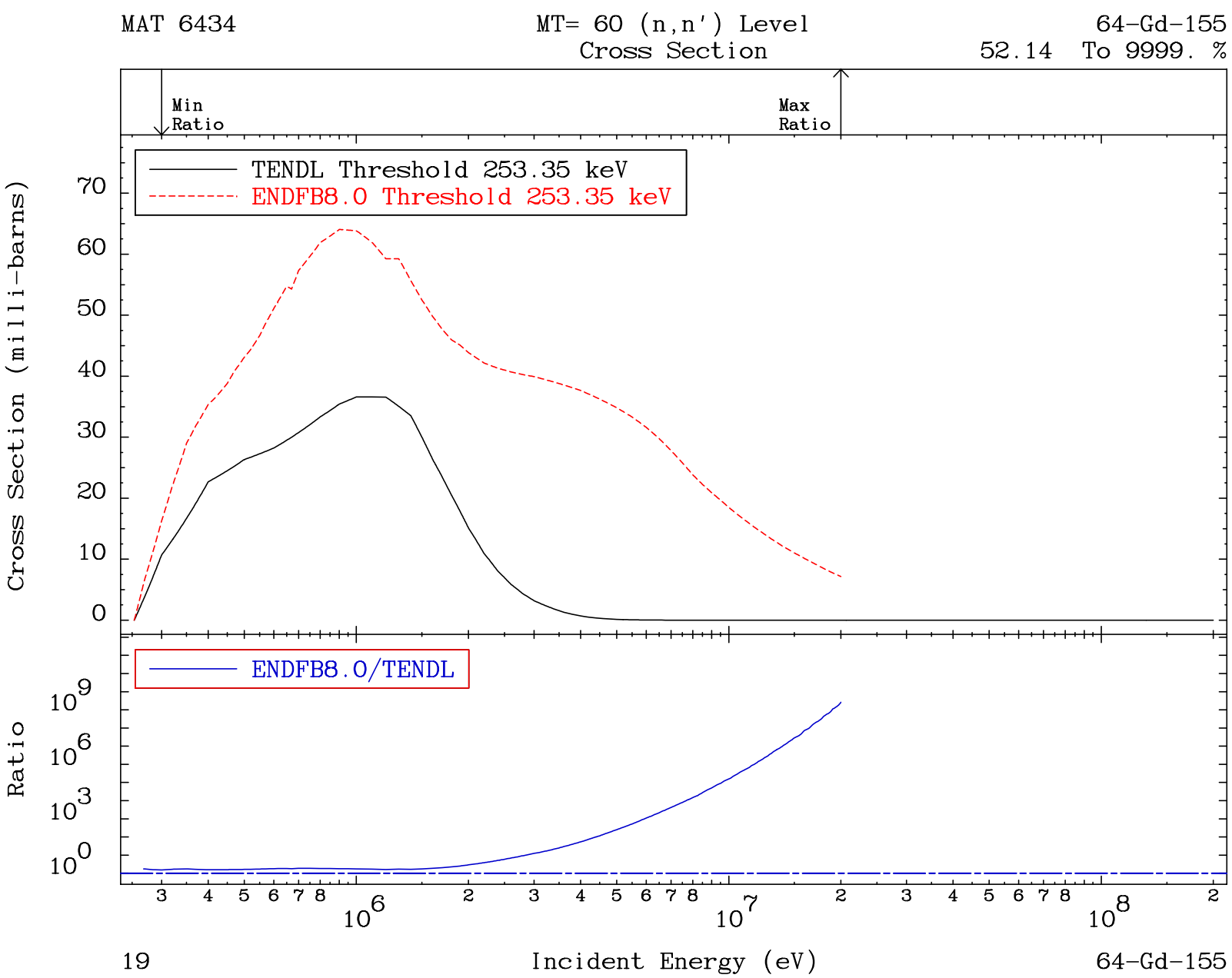

MAT 6434
MT= 55 (n,n') Level
Cross Section
64-Gd-155
-59.64 To 82.63 %
Max
Ratio
Min
Ratio
TENDL Threshold 118.77 keV
ENDFB8.0 Threshold 118.77 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.8
1.2
0.6
2
3
4
5
6
8
10^6
10^7
10^8
14
Incident Energy (eV)
64-Gd-155

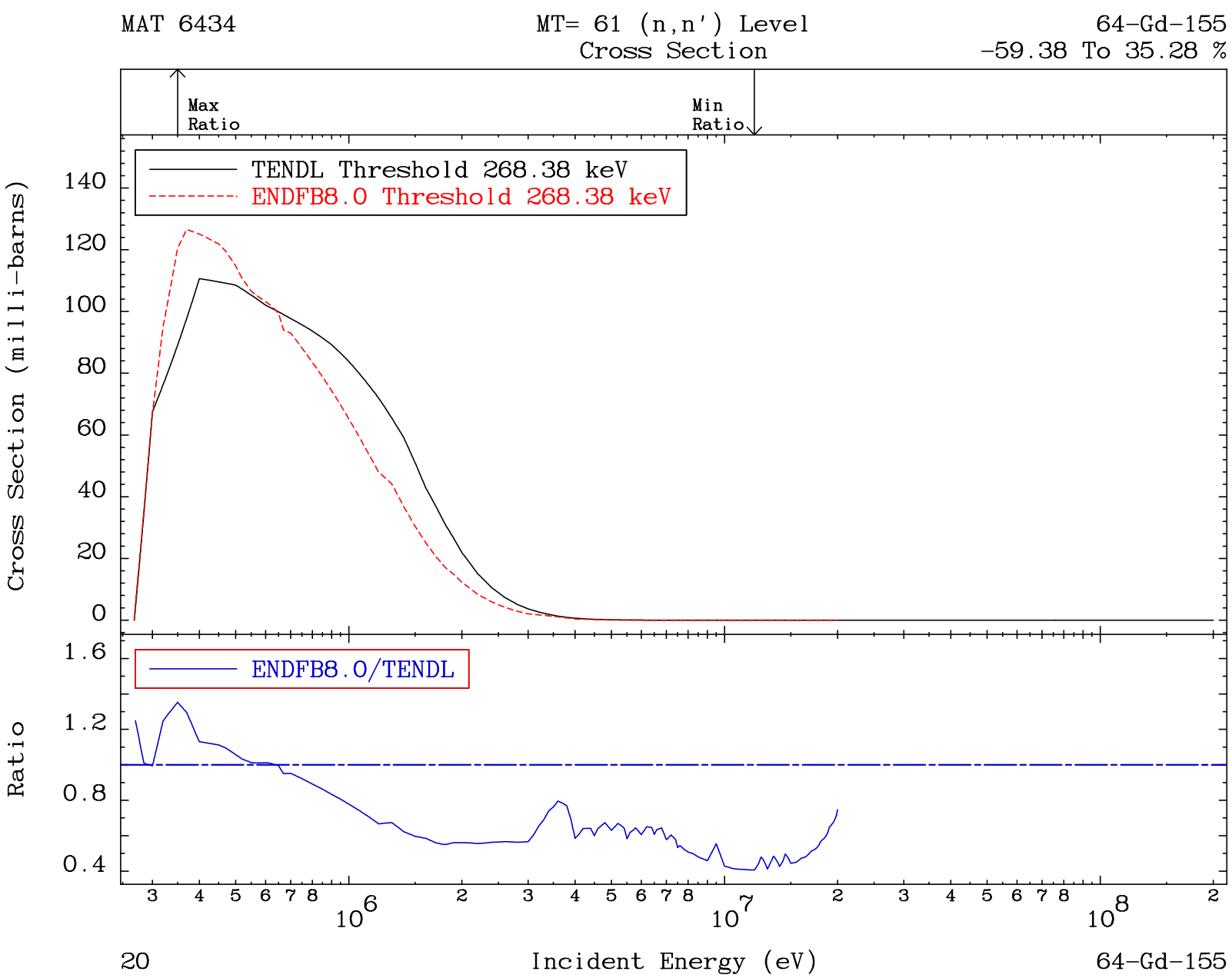

MAT 6434
MT= 56 (n,n') Level
Cross Section
64-Gd-155
-60.46 To 118.9 %
Max
Ratio
Min
Ratio
TENDL Threshold 121.84 keV
ENDFB8.0 Threshold 121.84 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
2.0
1.0
2
3
4
5
6
8
10^6
10^7
10^8
15
Incident Energy (eV)
64-Gd-155

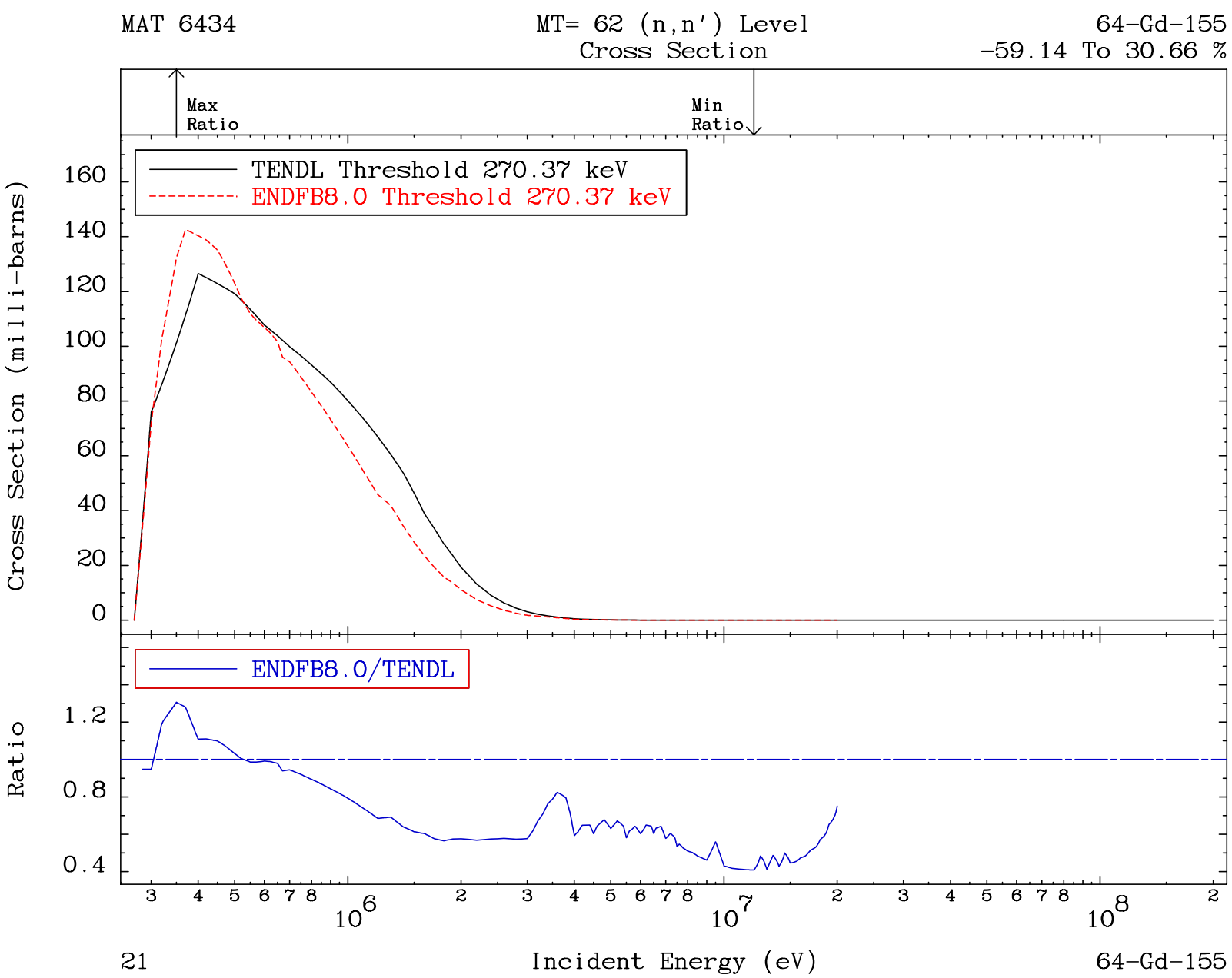

MAT 6434
MT= 57 (n,n') Level
Cross Section
64-Gd-155
-59.76 To 11.43 %
Max
Ratio
Min
Ratio
TENDL Threshold 147.02 keV
ENDFB8.0 Threshold 147.02 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
2
3
4
5
6
8
10^6
10^7
10^8
16
Incident Energy (eV)
64-Gd-155

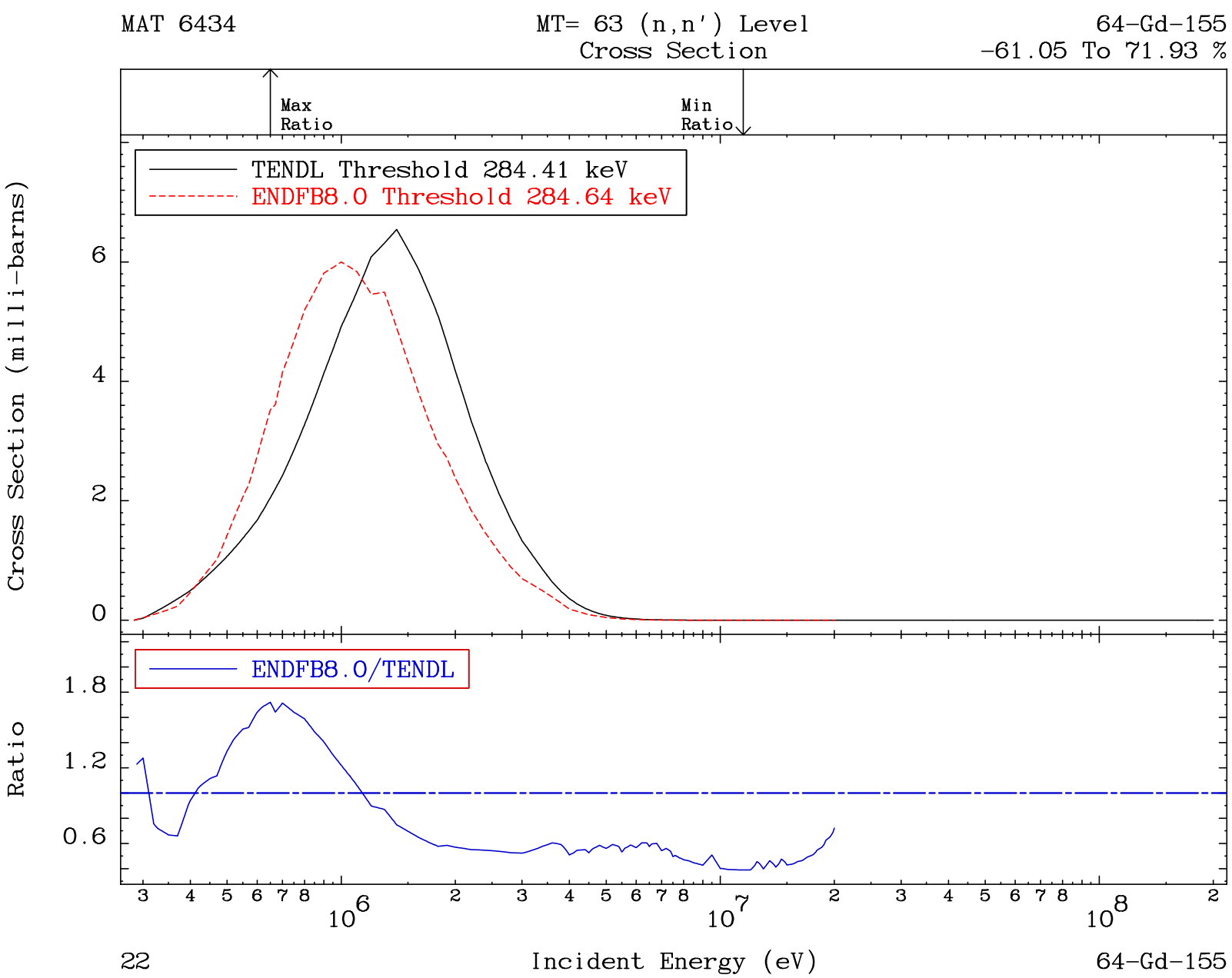

MAT 6434
MT= 58 (n,n') Level
Cross Section
64-Gd-155
-61.18 To 2.501 %
Max
Ratio
Min
Ratio
TENDL Threshold 215.75 keV
ENDFB8.0 Threshold 215.75 keV
Cross Section (milli-barns)
0
2
4
6
ENDFB8.0/TENDL
Ratio
0.4
0.6
0.8
1.0
1.2
2 3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
64-Gd-155

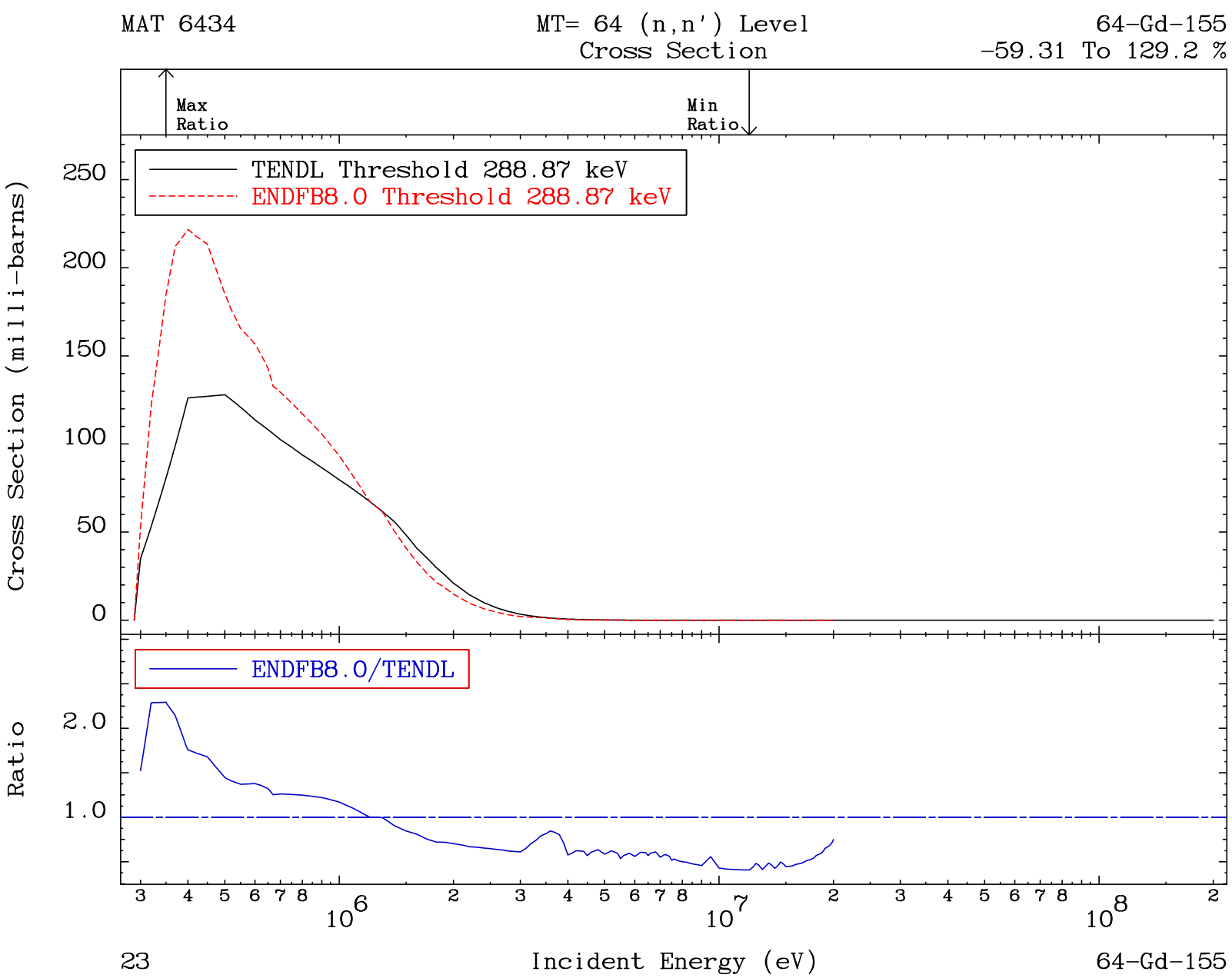

MAT 6434
MT= 59 (n,n') Level
Cross Section
64-Gd-155
-60.62 To -2.114%
Max
Ratio
Min
Ratio
TENDL Threshold 231.63 keV
ENDFB8.0 Threshold 231.63 keV
Cross Section (milli-barns)
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
1.0
0.8
0.6
0.4
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
64-Gd-155

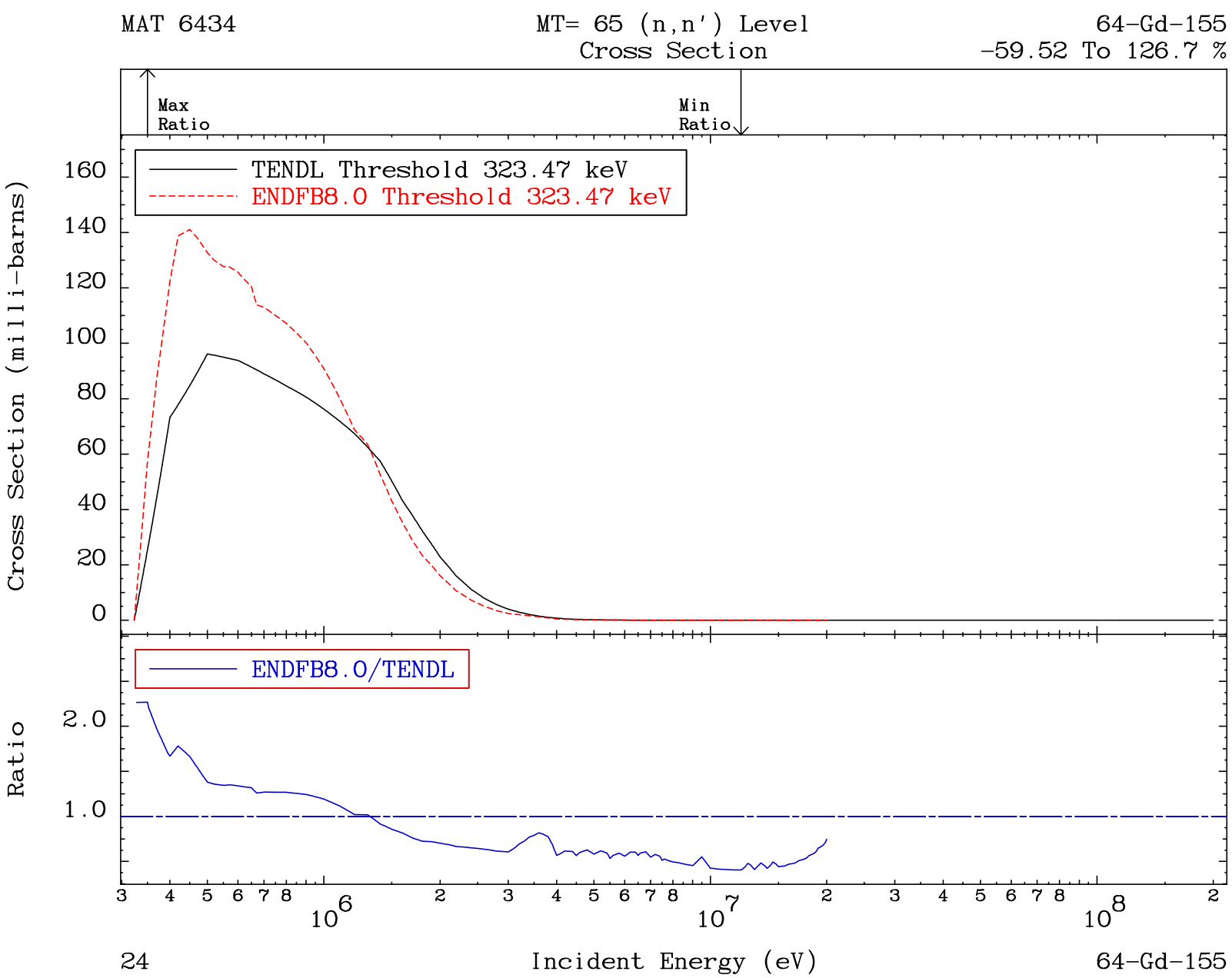

MAT 6434
MT= 60 (n,n') Level
Cross Section
64-Gd-155
52.14 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 253.35 keV
ENDFB8.0 Threshold 253.35 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
64-Gd-155

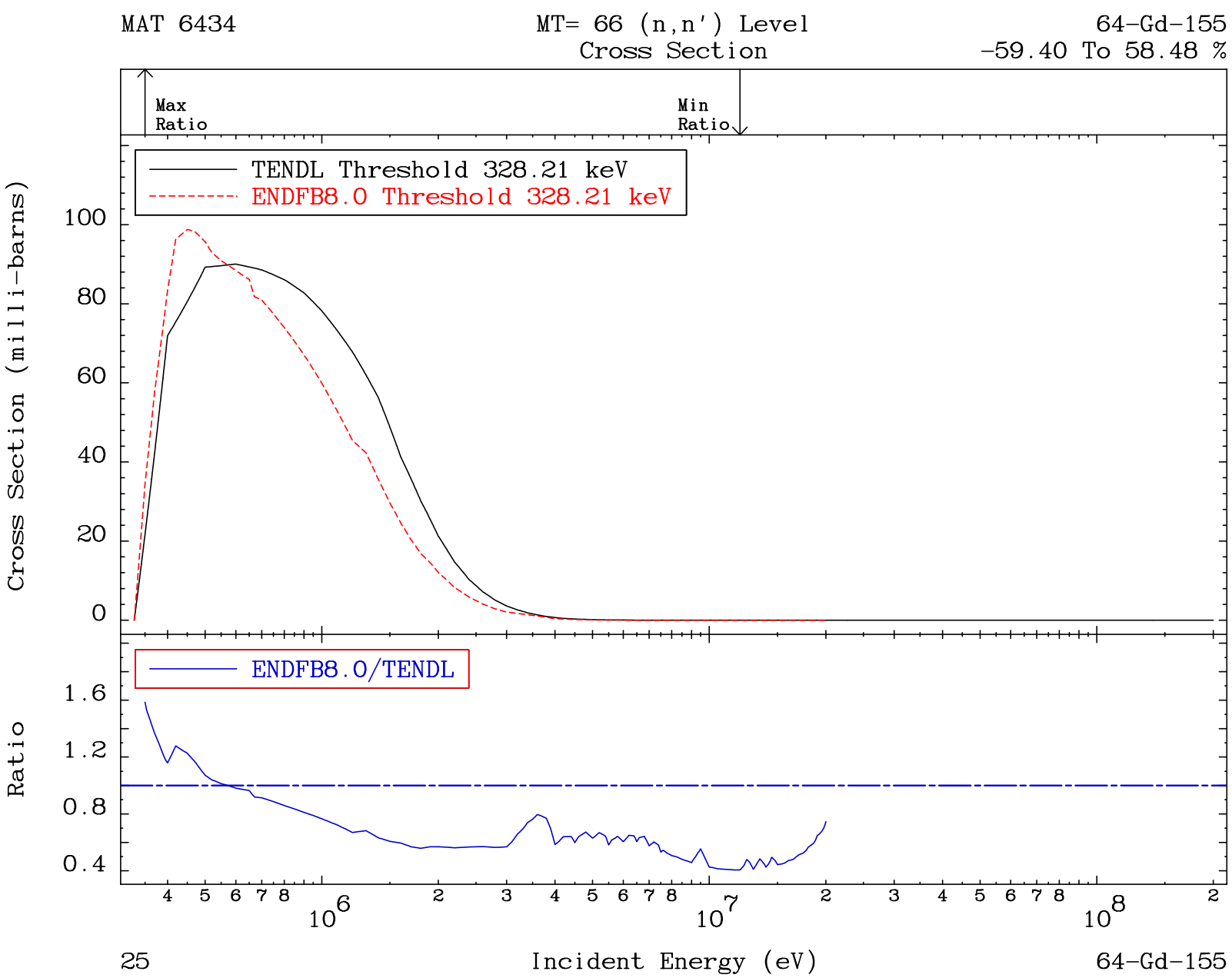

MAT 6434
MT= 61 (n,n') Level
Cross Section
64-Gd-155
-59.38 To 35.28 %
Max
Ratio
Min
Ratio
TENDL Threshold 268.38 keV
ENDFB8.0 Threshold 268.38 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
64-Gd-155

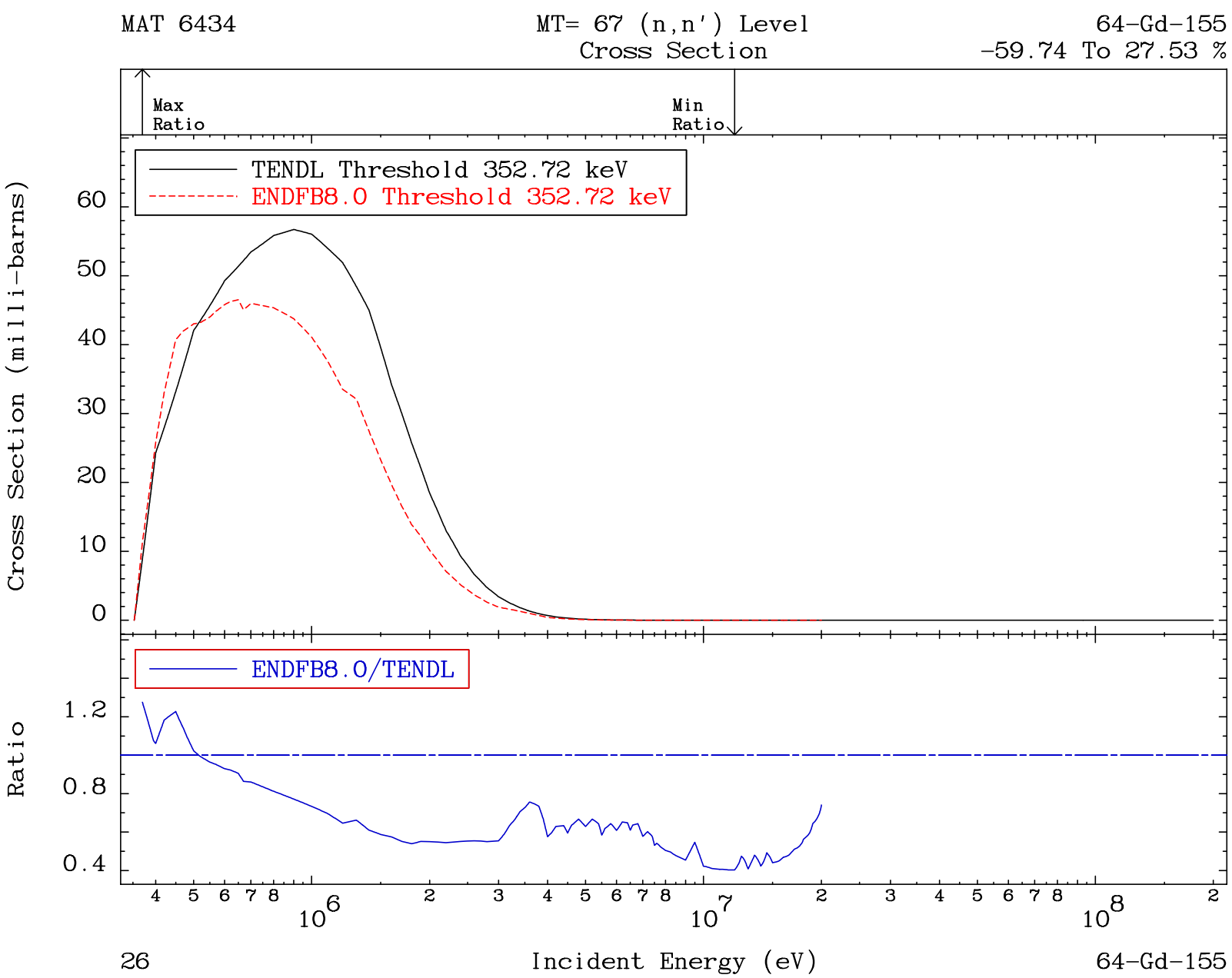

MAT 6434
MT= 62 (n,n') Level
Cross Section
64-Gd-155
-59.14 To 30.66 %
Max
Ratio
Min
Ratio
TENDL Threshold 270.37 keV
ENDFB8.0 Threshold 270.37 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
64-Gd-155

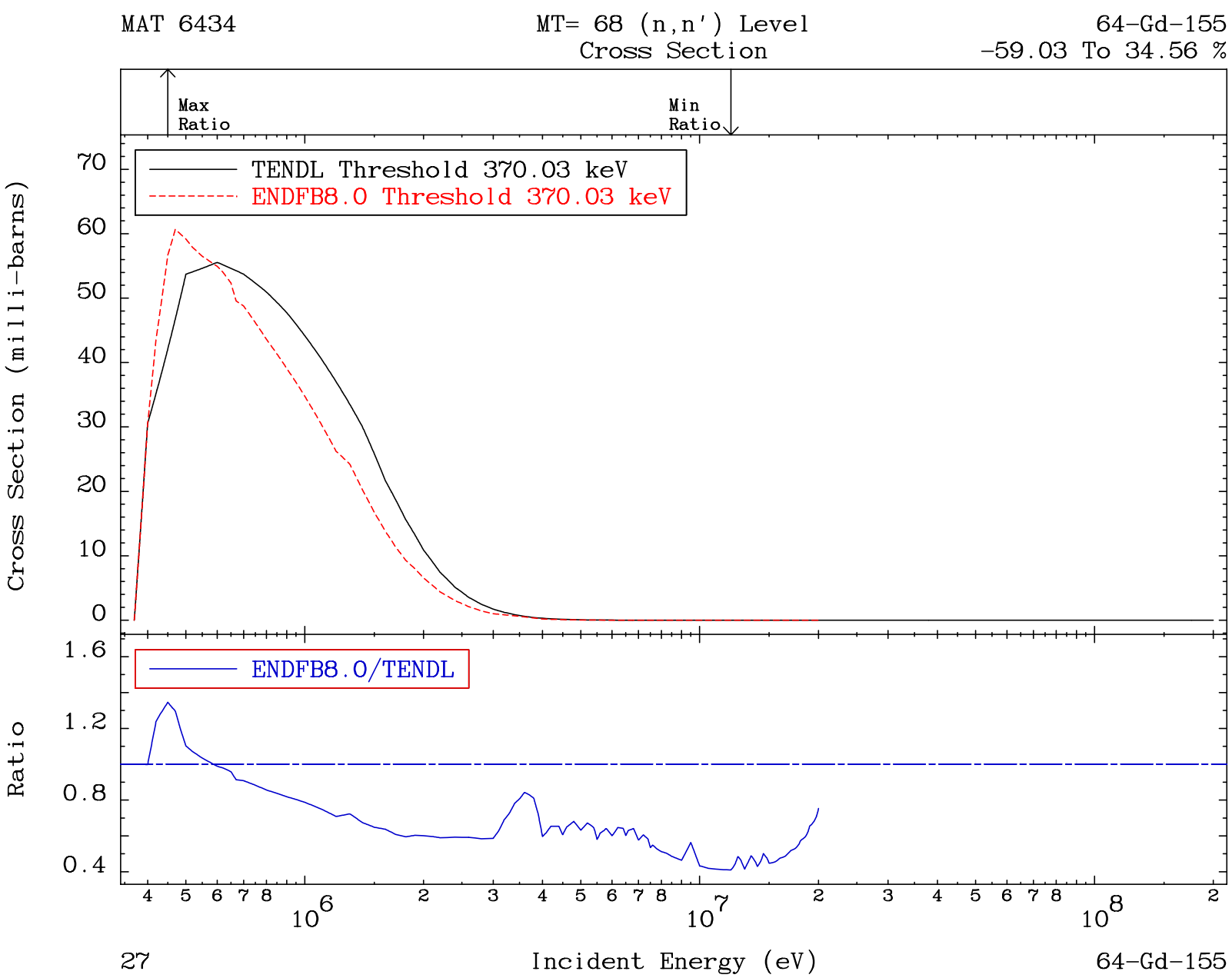

MAT 6434
MT= 63 (n,n') Level
Cross Section
64-Gd-155
-61.05 To 71.93 %
Max
Ratio
Min
Ratio
TENDL Threshold 284.41 keV
ENDFB8.0 Threshold 284.64 keV
Cross Section (milli-barns)
0
2
4
6
ENDFB8.0/TENDL
Ratio
0.6
1.2
1.8
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
64-Gd-155

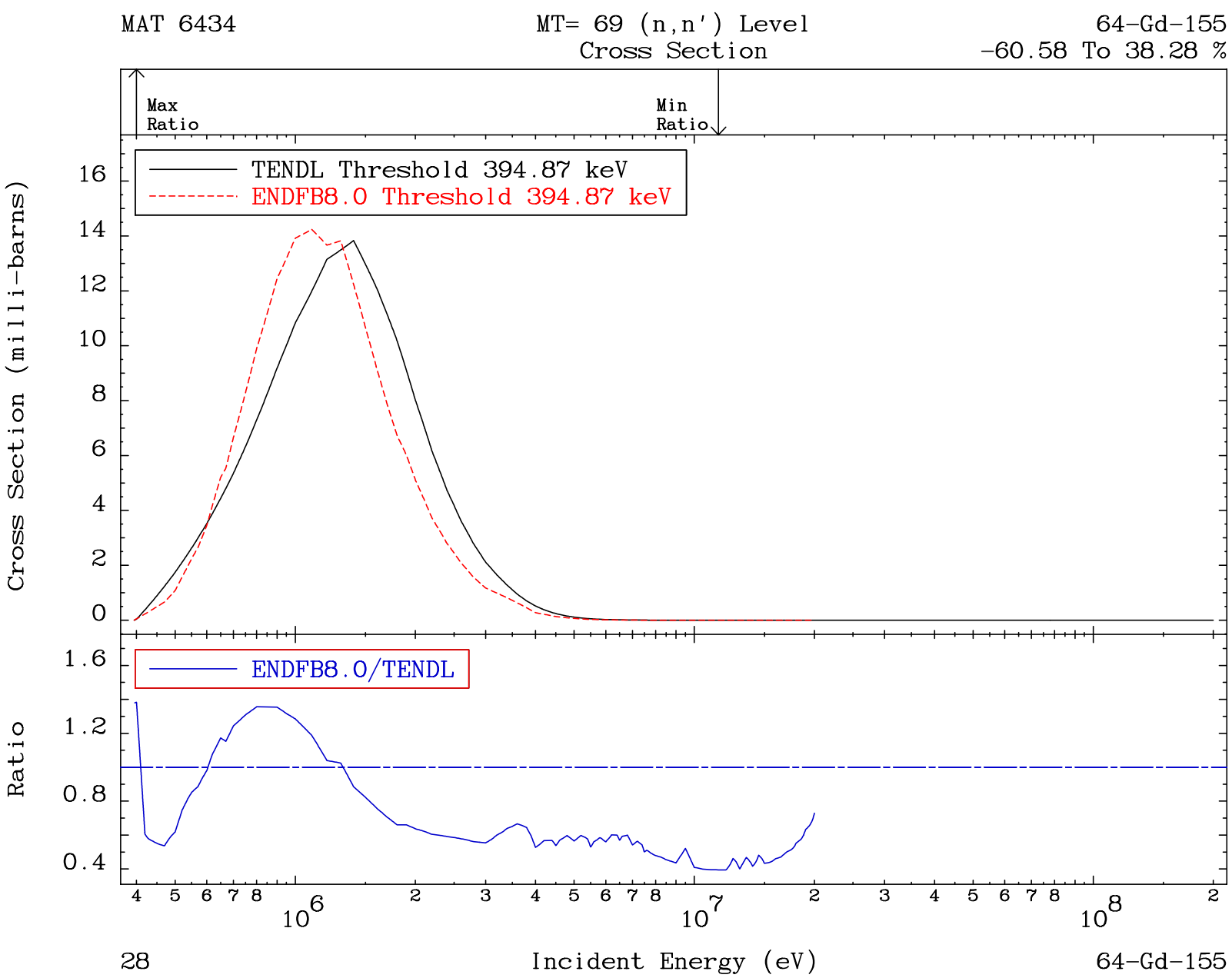

MAT 6434
MT= 64 (n,n') Level
Cross Section
64-Gd-155
-59.31 To 129.2 %
Max
Ratio
Min
Ratio
TENDL Threshold 288.87 keV
ENDFB8.0 Threshold 288.87 keV
Cross Section (milli-barns)
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
2.0
1.0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
64-Gd-155

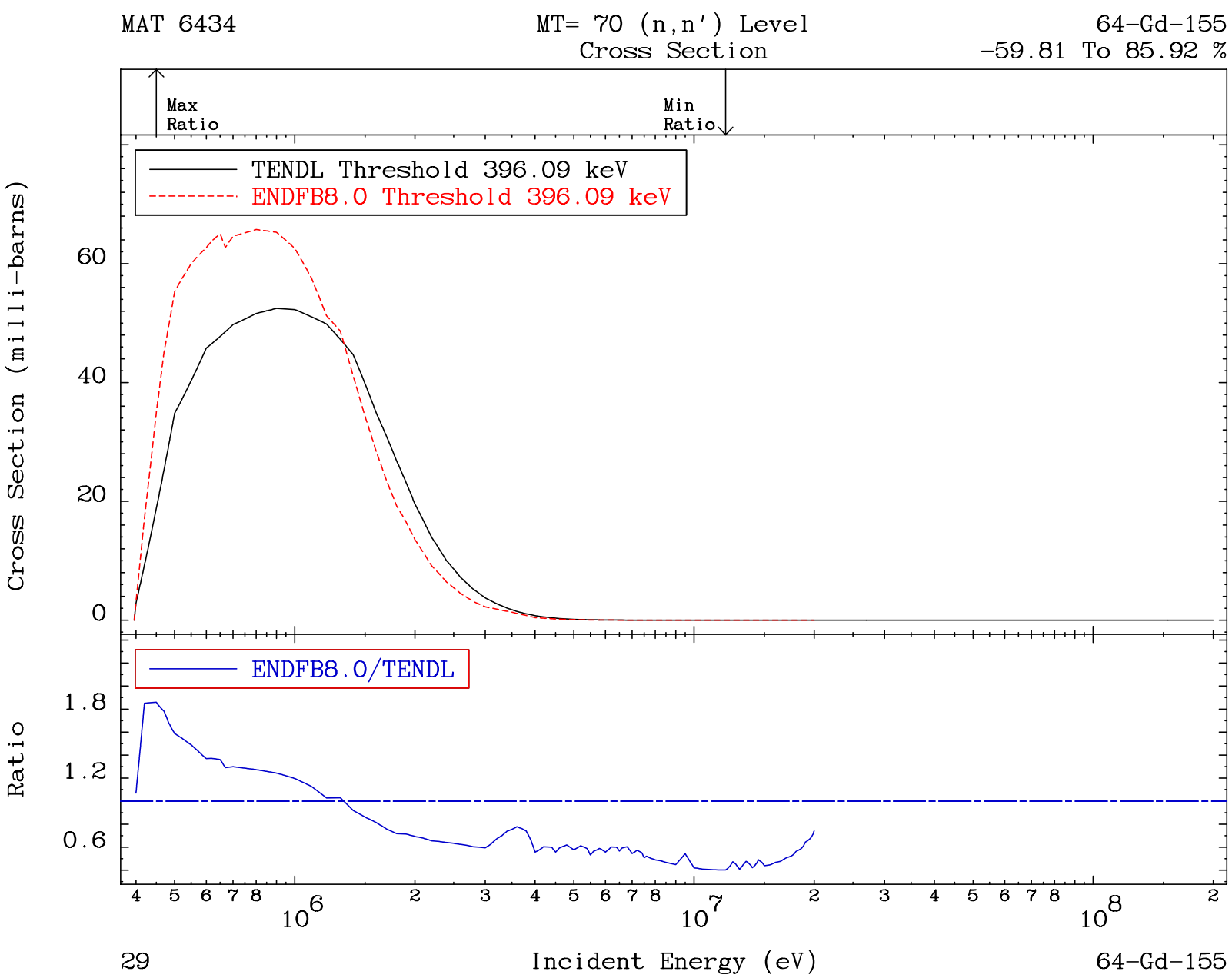

MAT 6434
MT= 65 (n,n') Level
Cross Section
64-Gd-155
-59.52 To 126.7 %
Max
Ratio
Min
Ratio
TENDL Threshold 323.47 keV
ENDFB8.0 Threshold 323.47 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
2.0
1.0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
64-Gd-155

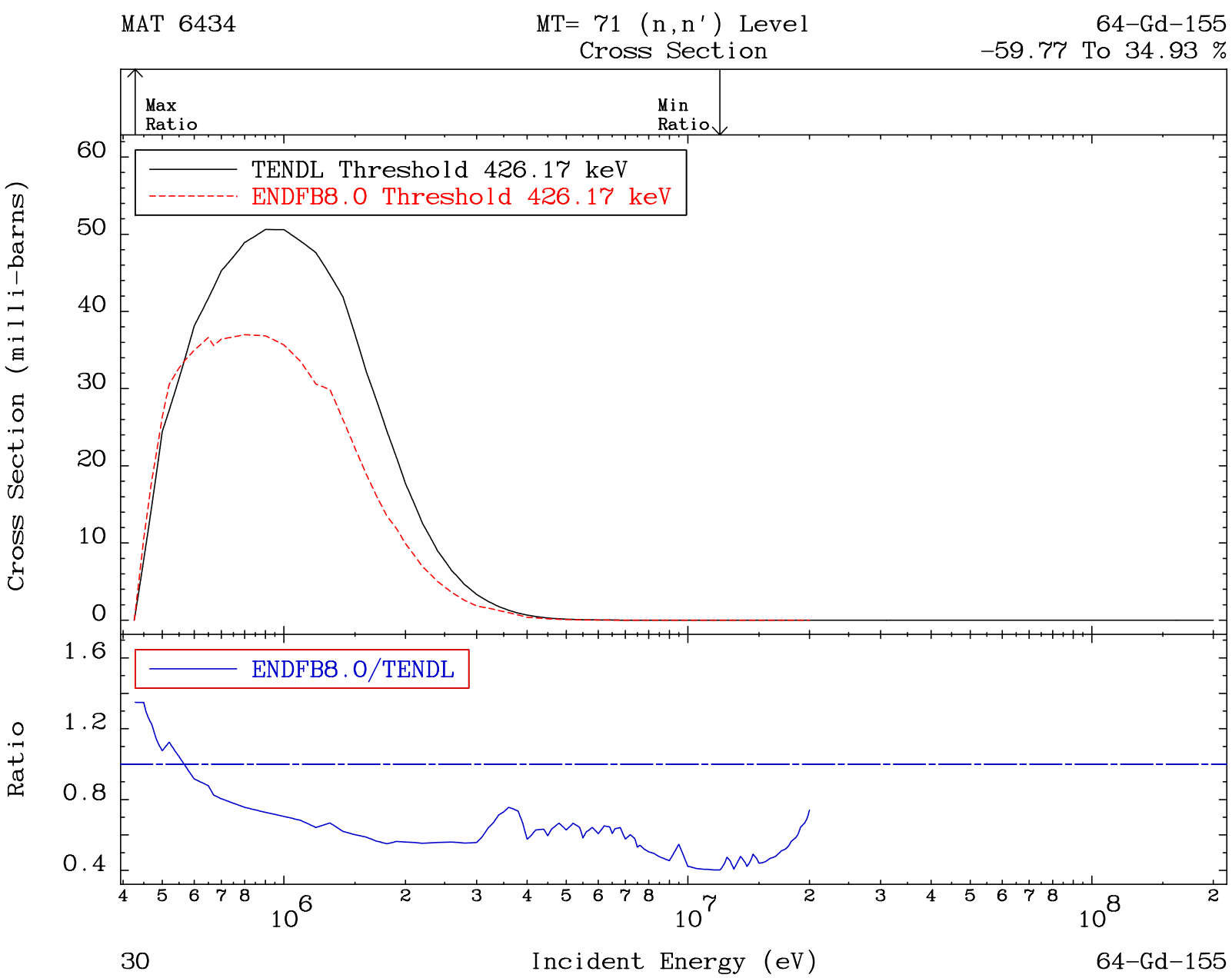

MAT 6434
MT= 66 (n,n') Level
Cross Section
64-Gd-155
-59.40 To 58.48 %
Max
Ratio
Min
Ratio
TENDL Threshold 328.21 keV
ENDFB8.0 Threshold 328.21 keV
Cross Section (milli-barns)
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
64-Gd-155

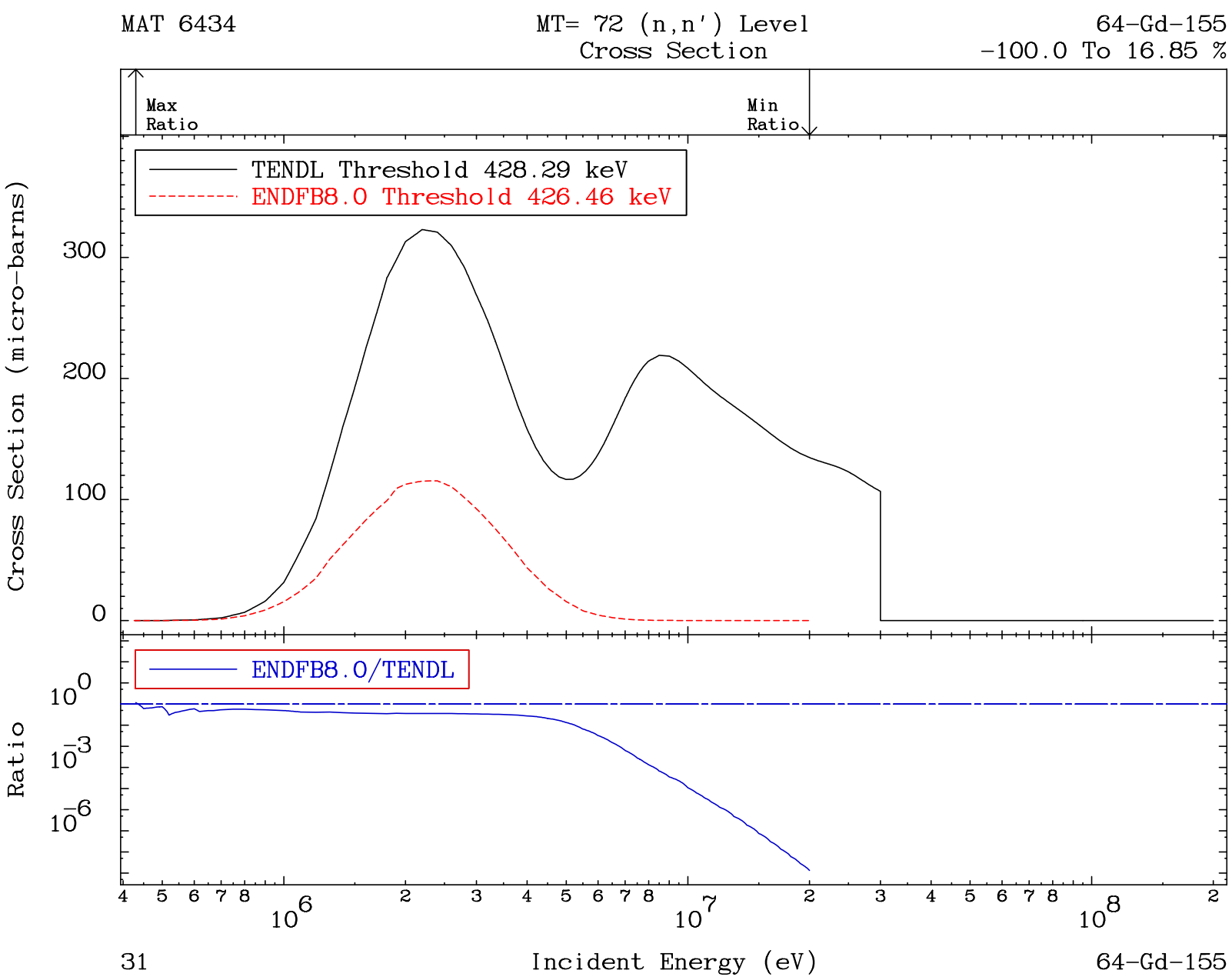

MAT 6434
MT= 67 (n,n') Level
Cross Section
64-Gd-155
-59.74 To 27.53 %
Max
Ratio
Min
Ratio
TENDL Threshold 352.72 keV
ENDFB8.0 Threshold 352.72 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
64-Gd-155

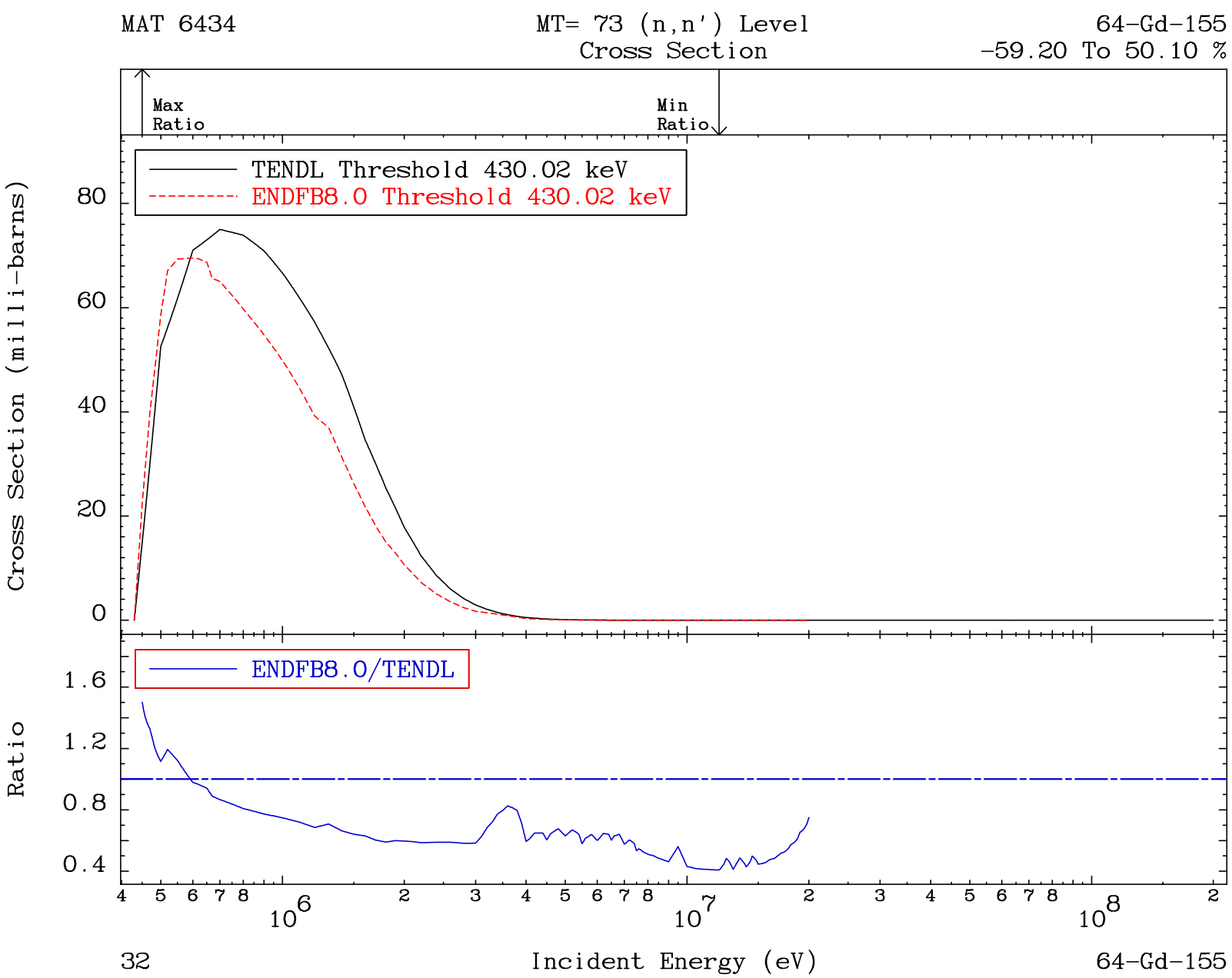

MAT 6434
MT= 68 (n,n') Level
Cross Section
64-Gd-155
-59.03 To 34.56 %
Max
Ratio
Min
Ratio
TENDL Threshold 370.03 keV
ENDFB8.0 Threshold 370.03 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
64-Gd-155

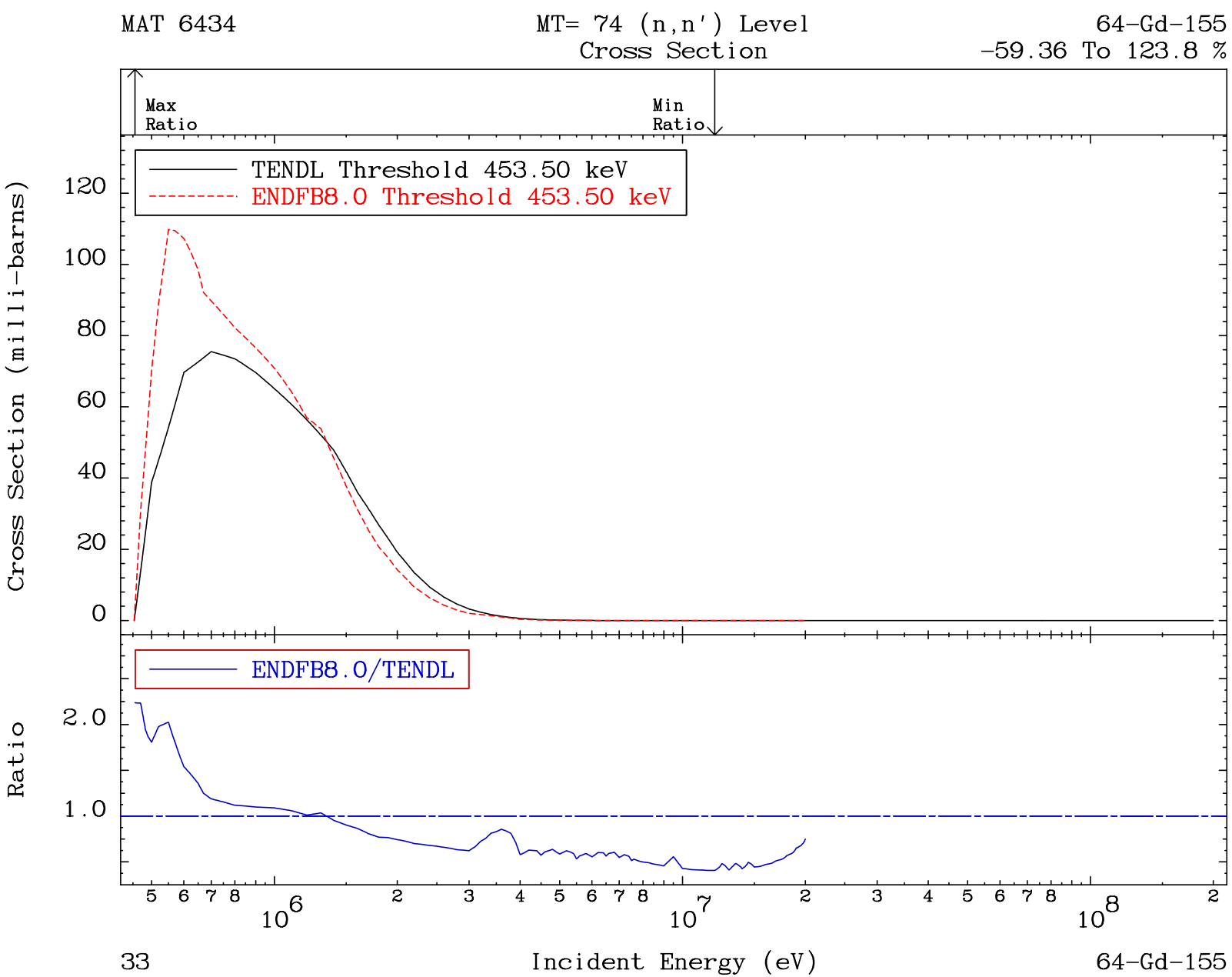

MAT 6434
MT= 69 (n,n') Level
Cross Section
64-Gd-155
-60.58 To 38.28 %
Max
Ratio
Min
Ratio
TENDL Threshold 394.87 keV
ENDFB8.0 Threshold 394.87 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
ENDFB8.0/TENDL
Ratio
0.4
0.8
1.2
1.6
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
64-Gd-155

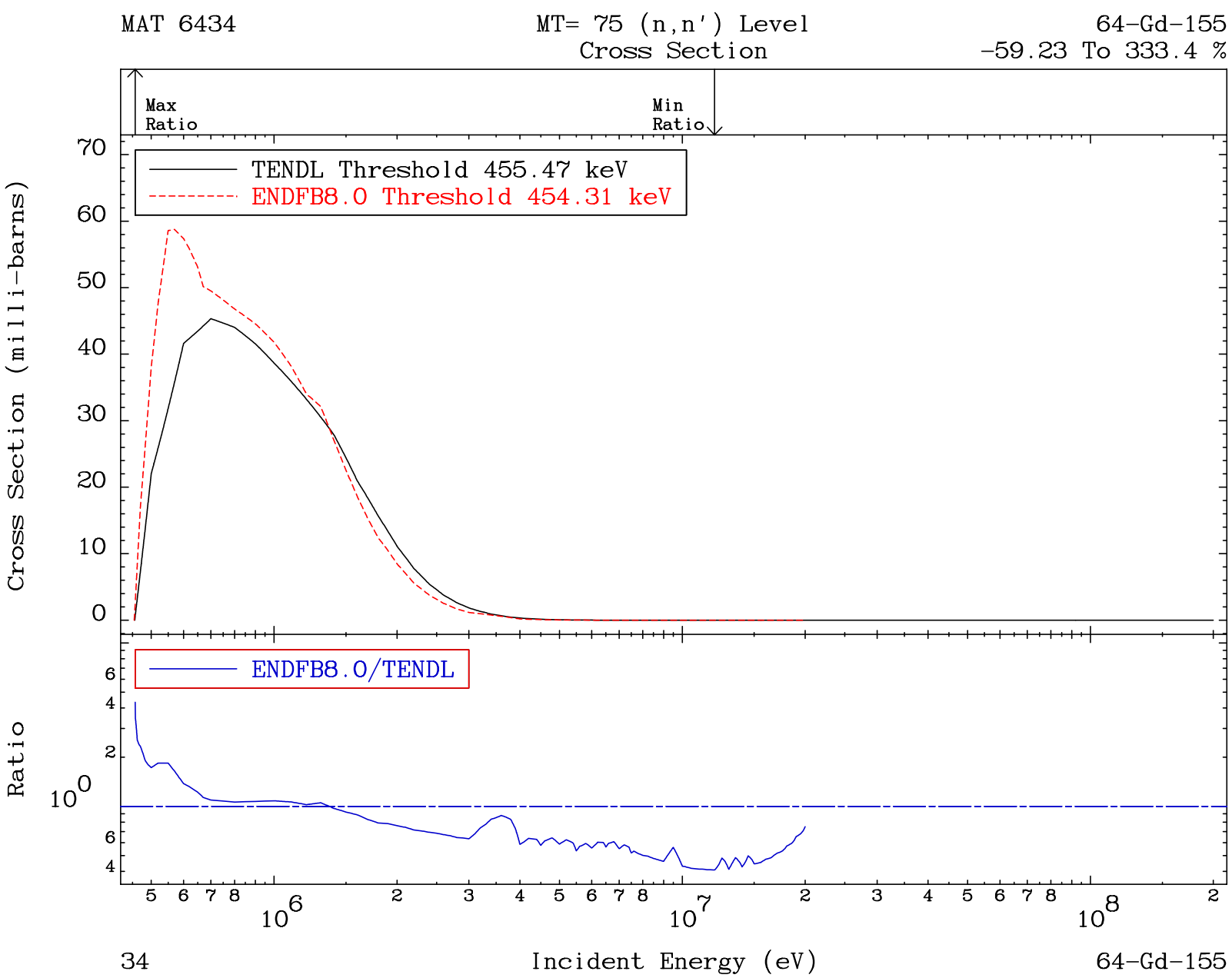

MAT 6434
MT= 70 (n,n') Level
Cross Section
64-Gd-155
-59.81 To 85.92 %
Max
Ratio
Min
Ratio
TENDL Threshold 396.09 keV
ENDFB8.0 Threshold 396.09 keV
Cross Section (milli-barns)
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.8
1.2
0.6
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
64-Gd-155

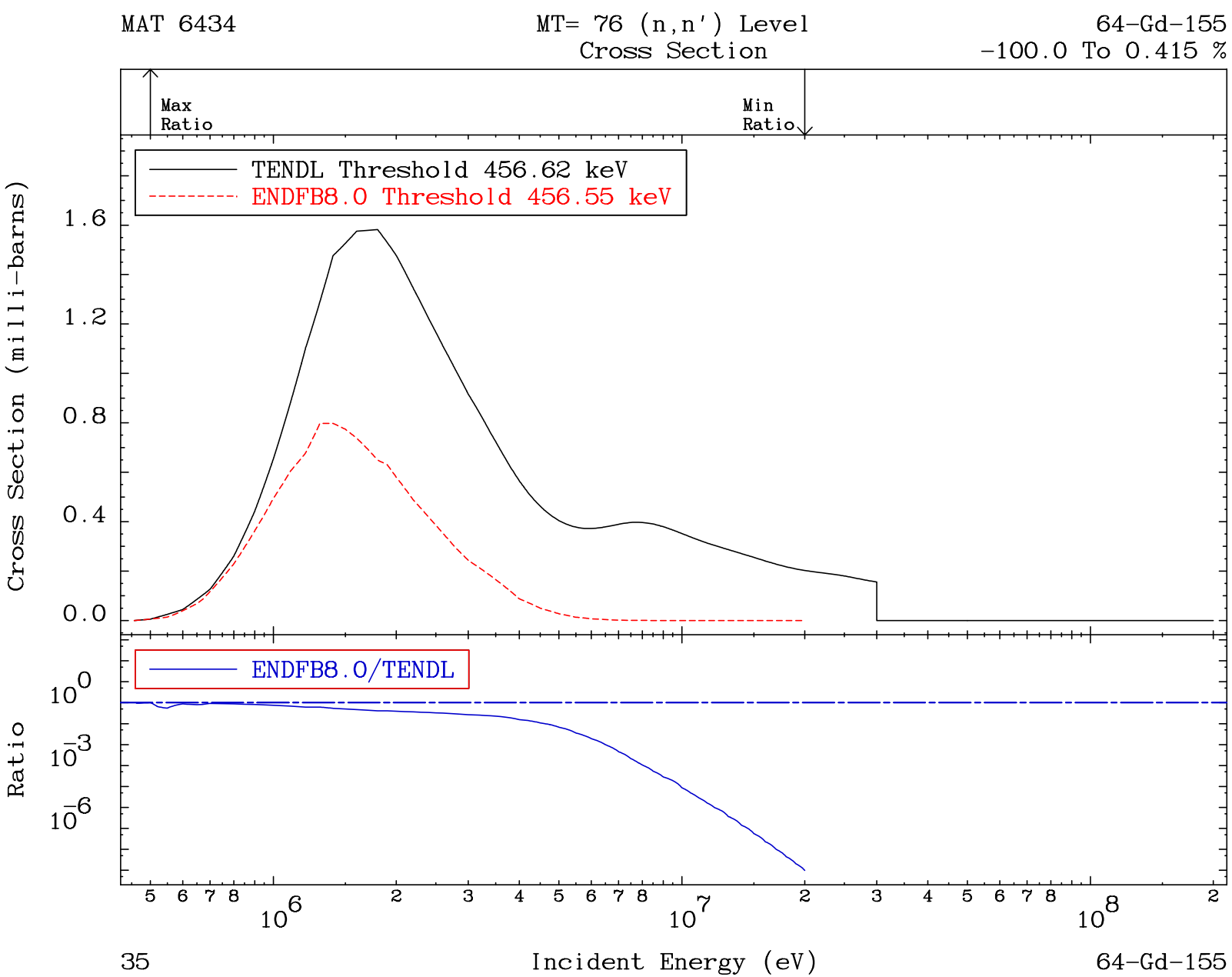

MAT 6434
MT= 71 (n,n') Level
Cross Section
64-Gd-155
-59.77 To 34.93 %
Max
Ratio
Min
Ratio
TENDL Threshold 426.17 keV
ENDFB8.0 Threshold 426.17 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
64-Gd-155

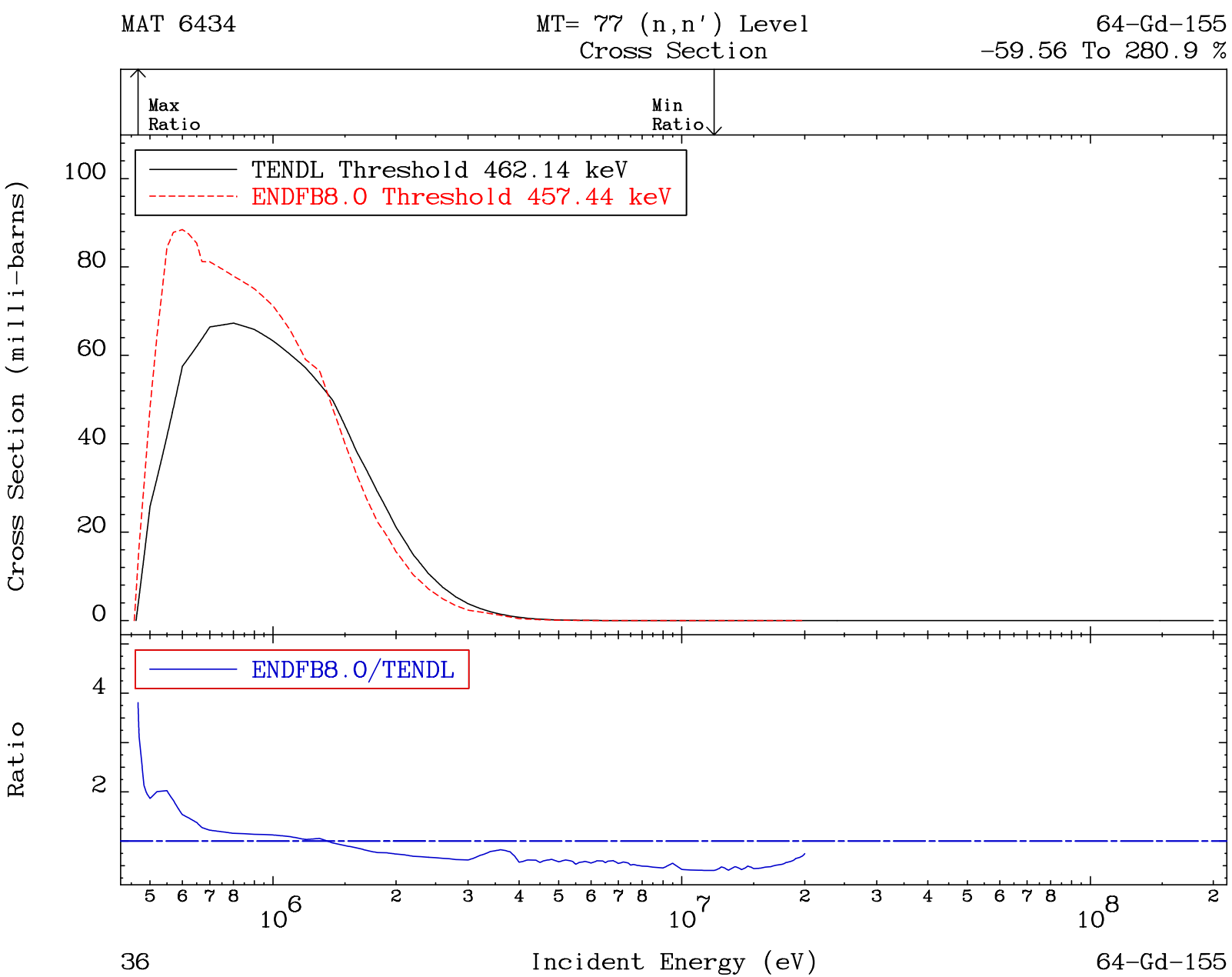

MAT 6434
MT= 72 (n,n') Level
Cross Section
64-Gd-155
-100.0 To 16.85 %
Max
Ratio
Min
Ratio
TENDL Threshold 428.29 keV
ENDFB8.0 Threshold 426.46 keV
Cross Section (micro-barns)
300
200
100
0
ENDFB8.0/TENDL
Ratio
10^0
10^-3
10^-6
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
64-Gd-155

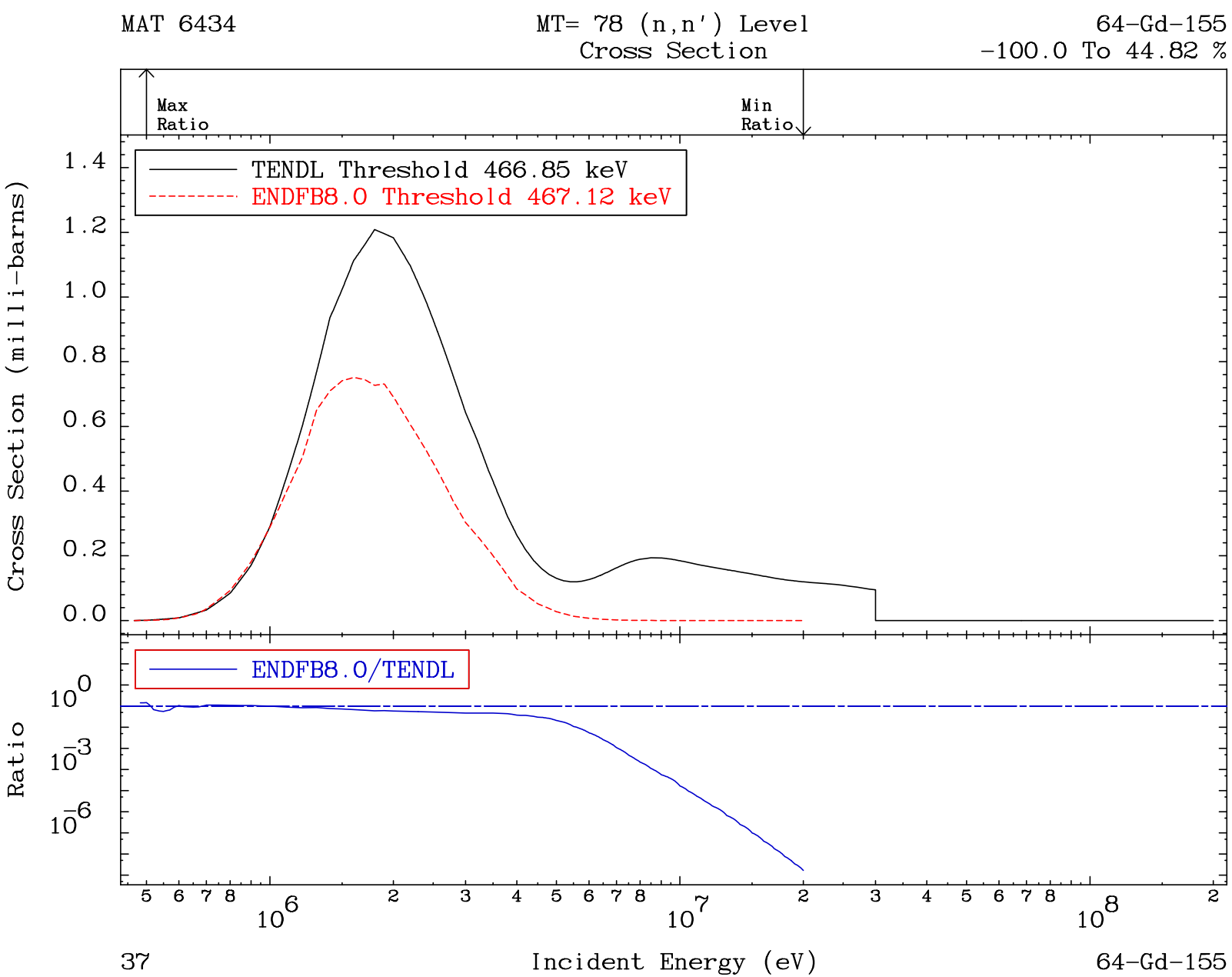

MAT 6434
MT= 73 (n,n') Level
Cross Section
64-Gd-155
-59.20 To 50.10 %
Max
Ratio
Min
Ratio
TENDL Threshold 430.02 keV
ENDFB8.0 Threshold 430.02 keV
Cross Section (milli-barns)
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
64-Gd-155

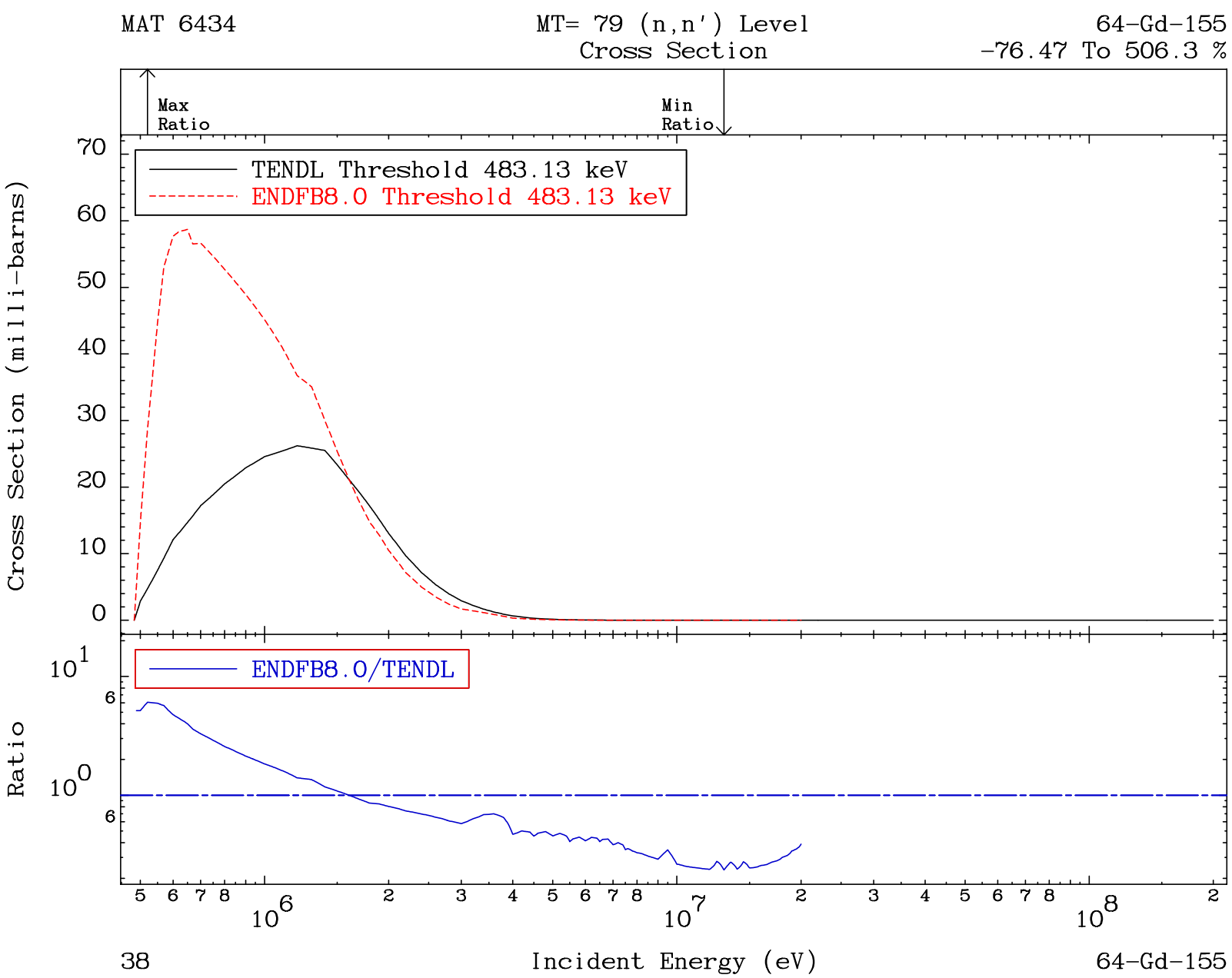

MAT 6434
MT= 74 (n,n') Level
Cross Section
64-Gd-155
-59.36 To 123.8 %
Max
Ratio
Min
Ratio
TENDL Threshold 453.50 keV
ENDFB8.0 Threshold 453.50 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
2.0
1.0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
64-Gd-155

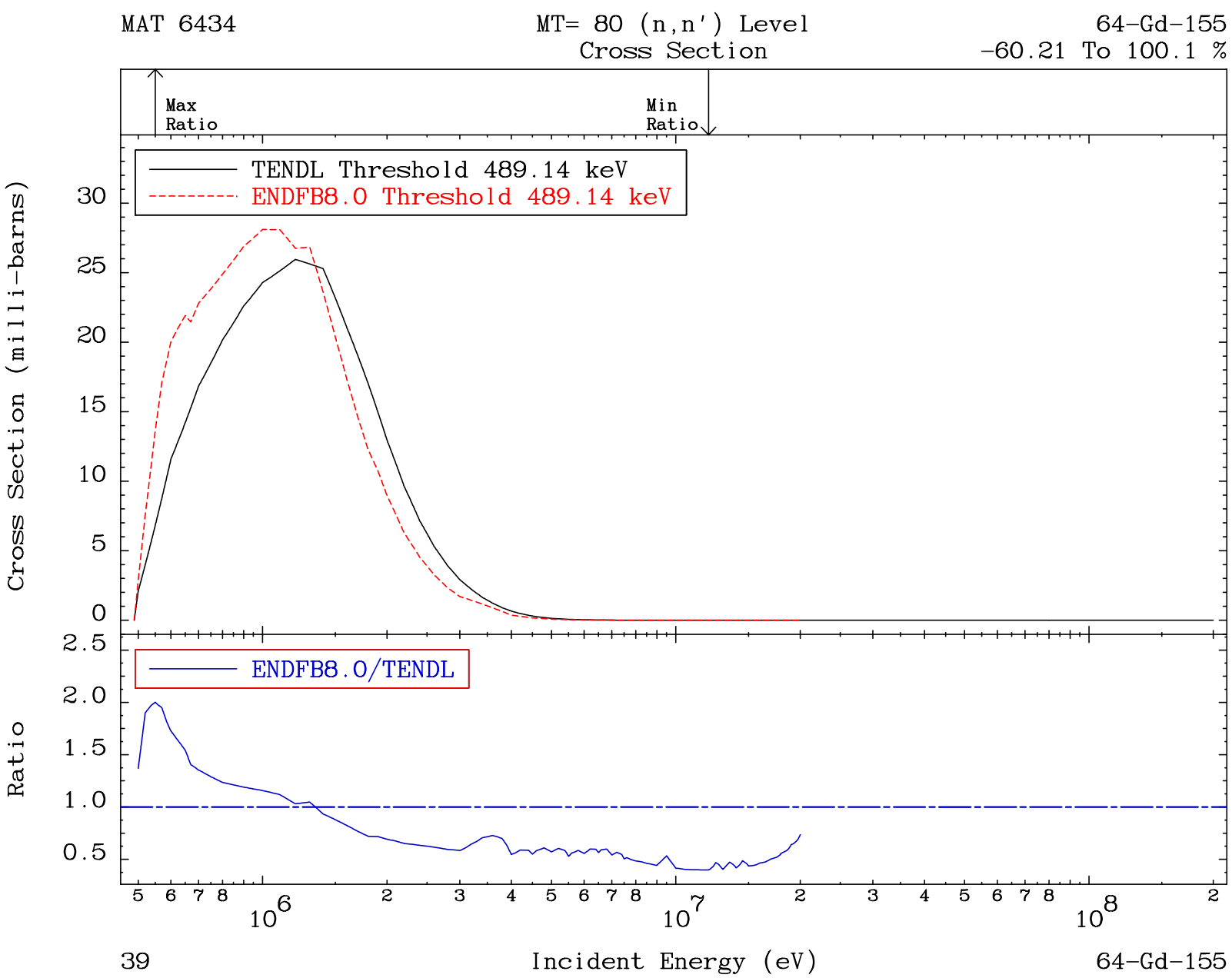

MAT 6434
MT= 75 (n,n') Level
Cross Section
64-Gd-155
-59.23 To 333.4 %
Max
Ratio
Min
Ratio
TENDL Threshold 455.47 keV
ENDFB8.0 Threshold 454.31 keV
Cross Section (milli-barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
34
64-Gd-155

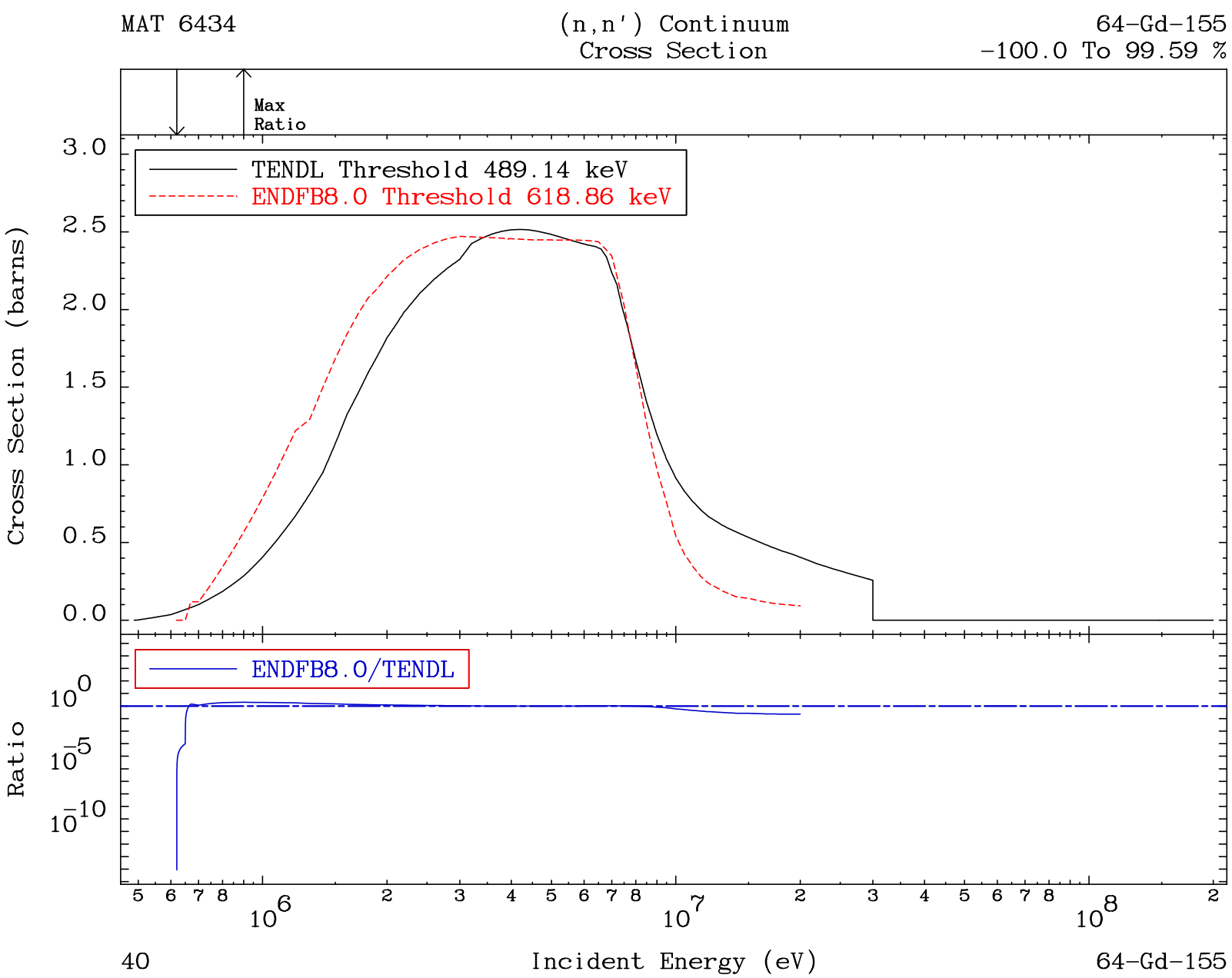

MAT 6434
MT= 76 (n,n') Level
Cross Section
64-Gd-155
-100.0 To 0.415 %
Max
Ratio
Min
Ratio
TENDL Threshold 456.62 keV
ENDFB8.0 Threshold 456.55 keV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
ENDFB8.0/TENDL
Ratio
10^0
10^-3
10^-6
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
64-Gd-155

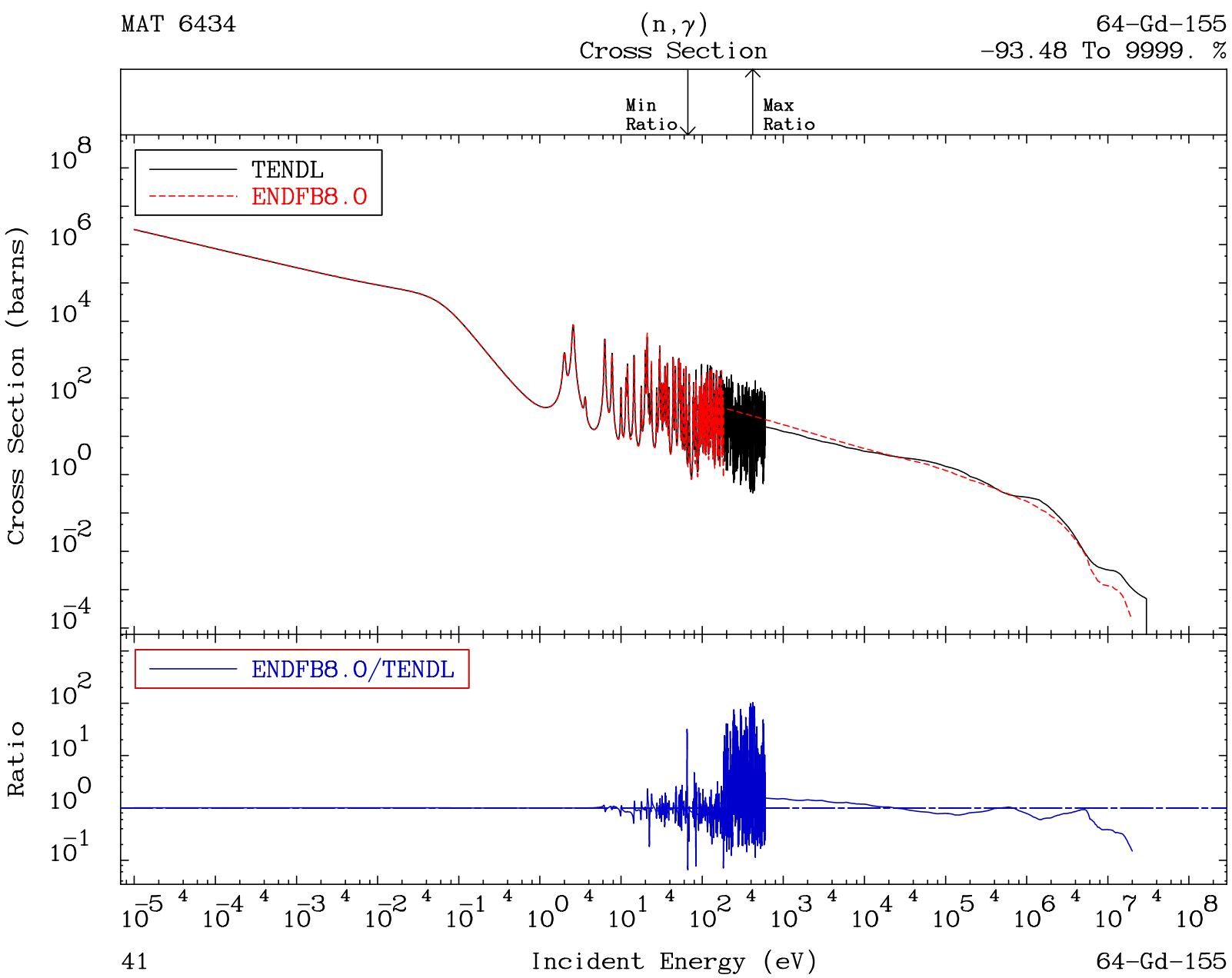

MAT 6434
MT= 77 (n,n') Level
Cross Section
64-Gd-155
-59.56 To 280.9 %
Max
Ratio
Min
Ratio
TENDL Threshold 462.14 keV
ENDFB8.0 Threshold 457.44 keV
Cross Section (milli-barns)
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
4
2
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
64-Gd-155

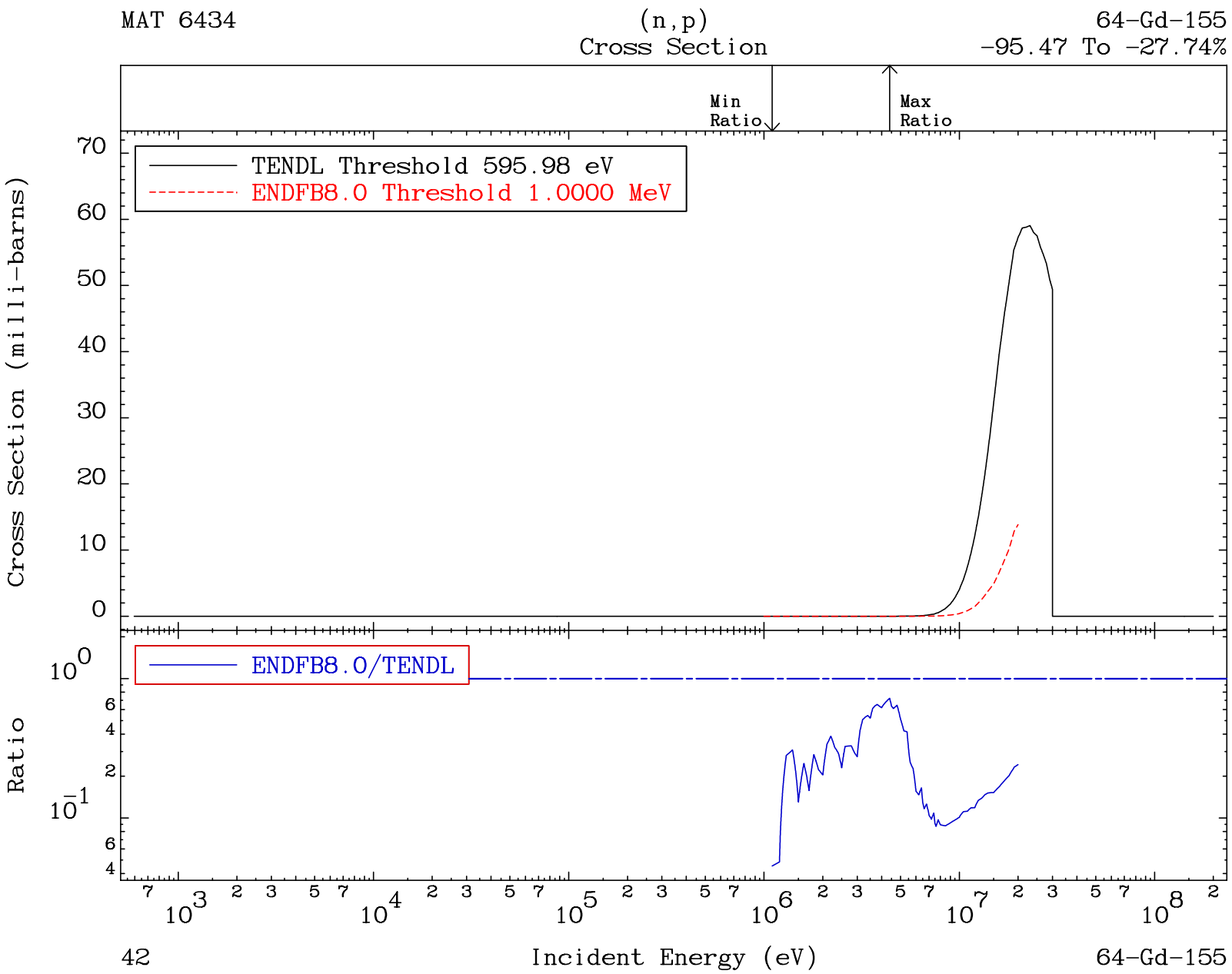

MAT 6434
MT= 78 (n,n') Level
Cross Section
64-Gd-155
-100.0 To 44.82 %
Max
Ratio
Min
Ratio
TENDL Threshold 466.85 keV
ENDFB8.0 Threshold 467.12 keV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
10^0
10^-3
10^-6
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
64-Gd-155

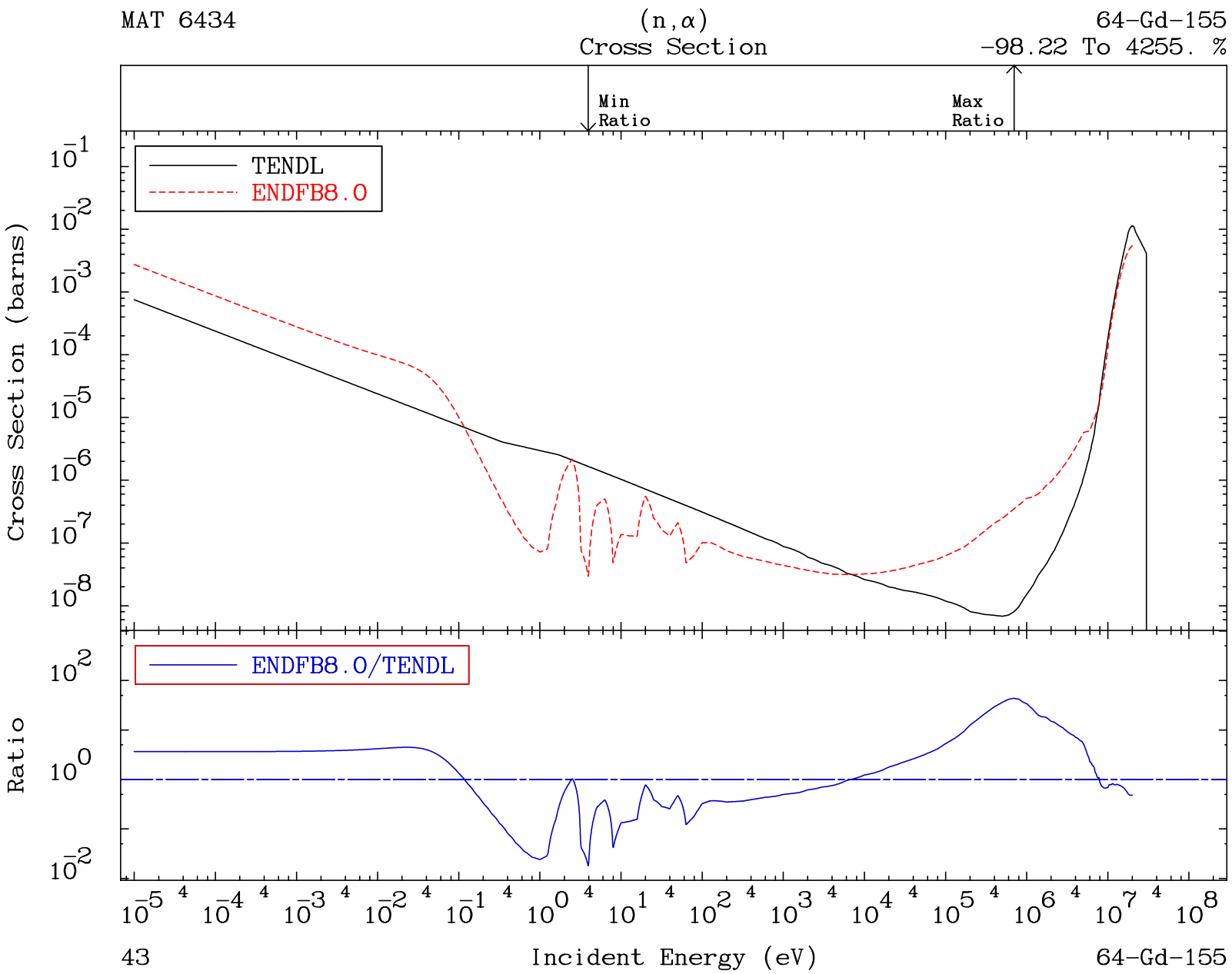

MAT 6434
MT= 79 (n,n') Level
Cross Section
64-Gd-155
-76.47 To 506.3 %
Max
Ratio
Min
Ratio
TENDL Threshold 483.13 keV
ENDFB8.0 Threshold 483.13 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
10^1
10^0
6
6
5 6 7 8
10^6
2
3
4
5 6 7 8
10^7
2
3
4
5 6 7 8
10^8
2
38
Incident Energy (eV)
64-Gd-155

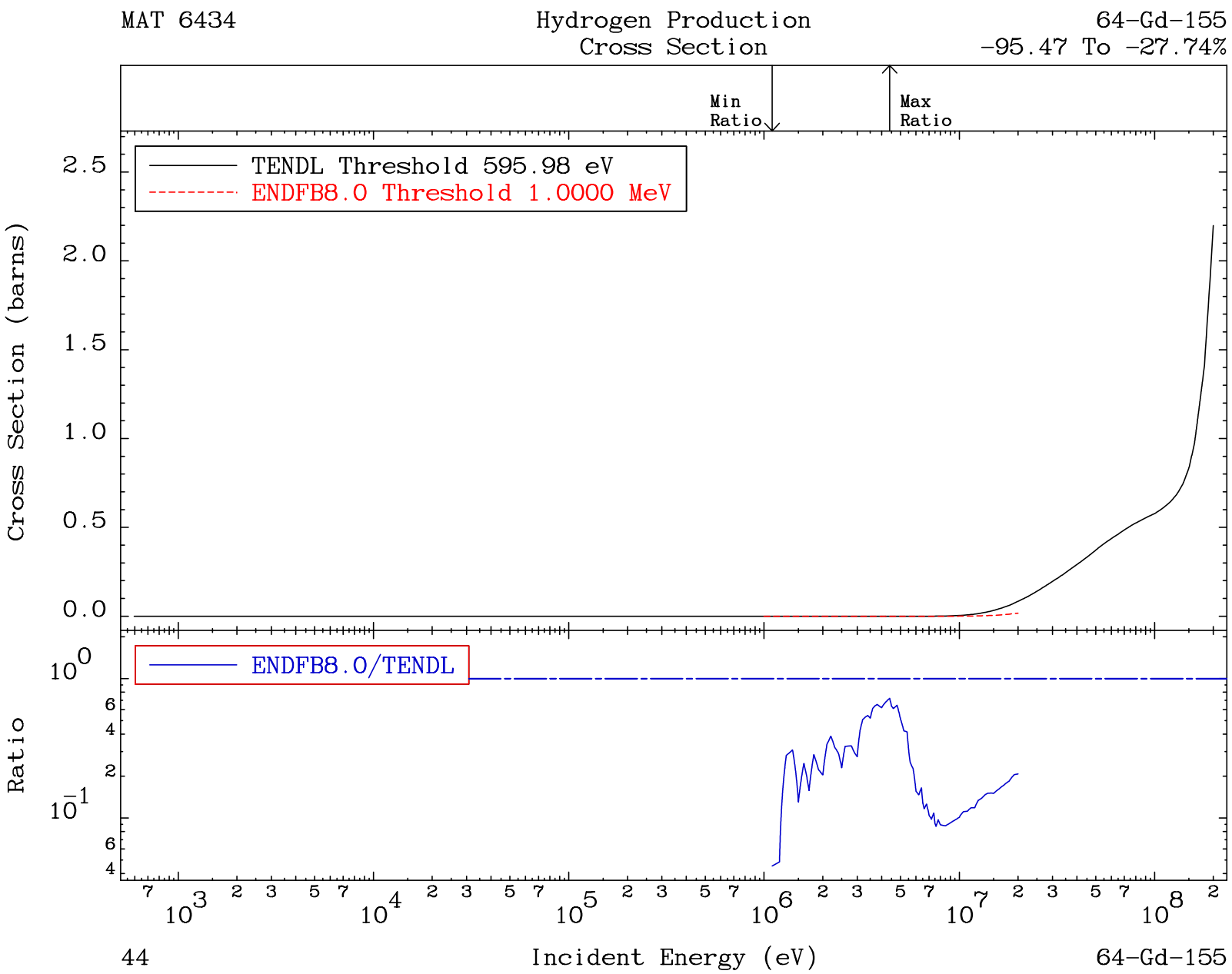

MAT 6434
MT= 80 (n,n') Level
Cross Section
64-Gd-155
-60.21 To 100.1 %
Max
Ratio
Min
Ratio
TENDL Threshold 489.14 keV
ENDFB8.0 Threshold 489.14 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
2.5
2.0
1.5
1.0
0.5
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
64-Gd-155

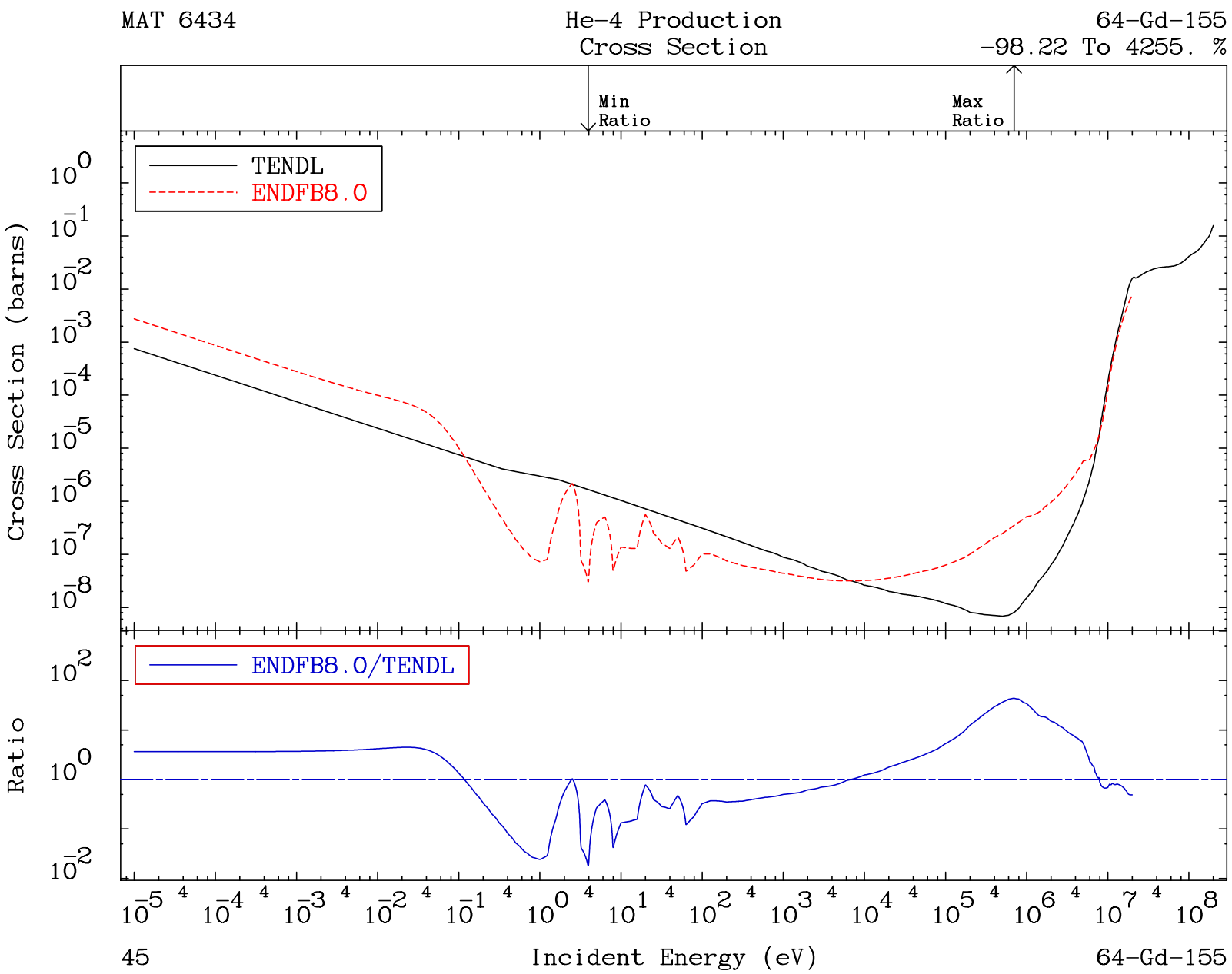

MAT 6434
(n,n') Continuum
Cross Section
64-Gd-155
-100.0 To 99.59 %
Max
Ratio
TENDL Threshold 489.14 keV
ENDFB8.0 Threshold 618.86 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
10^0
10^-5
10^-10
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
64-Gd-155

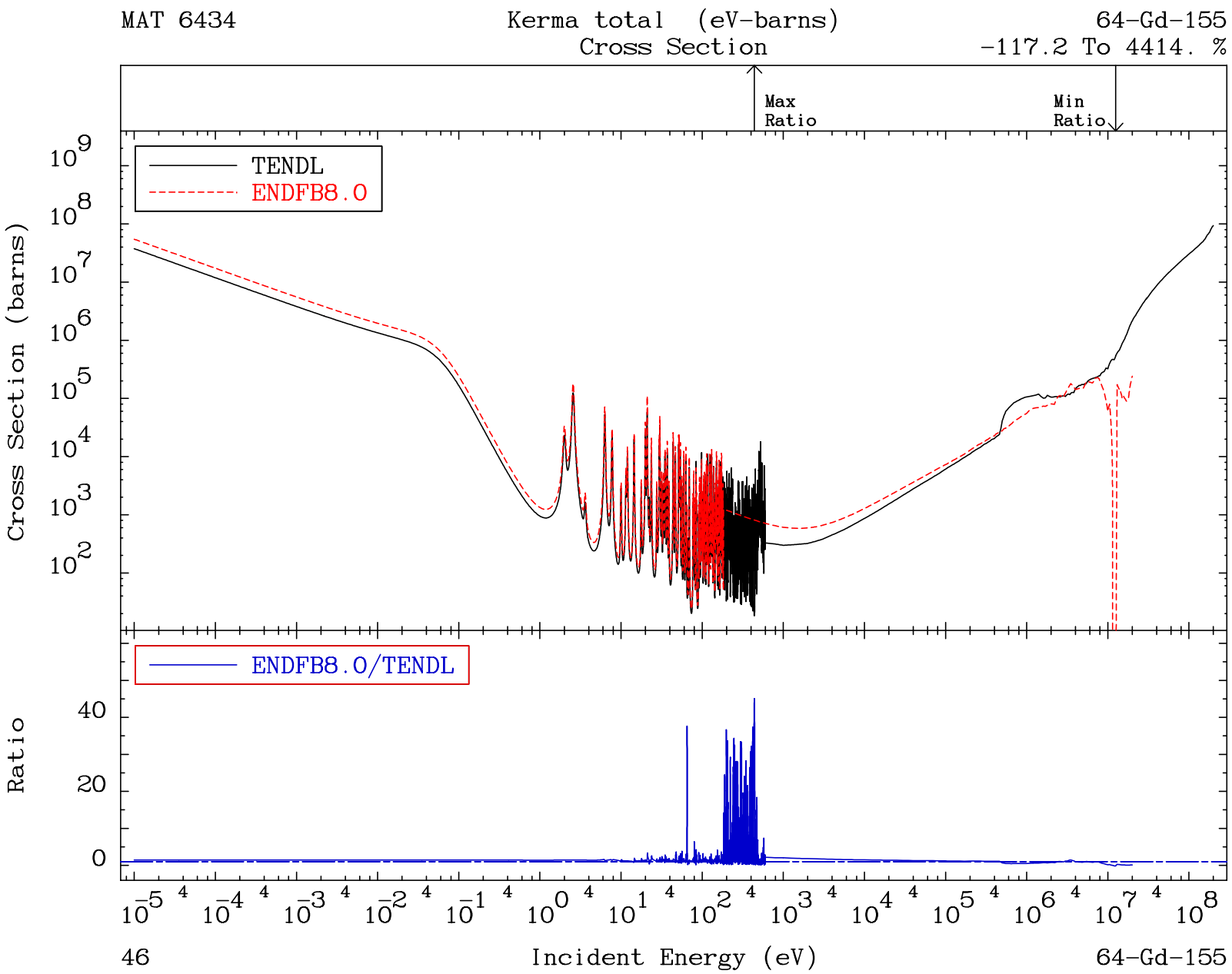

MAT 6434
(n,γ)
Cross Section
64-Gd-155
-93.48 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
41
64-Gd-155

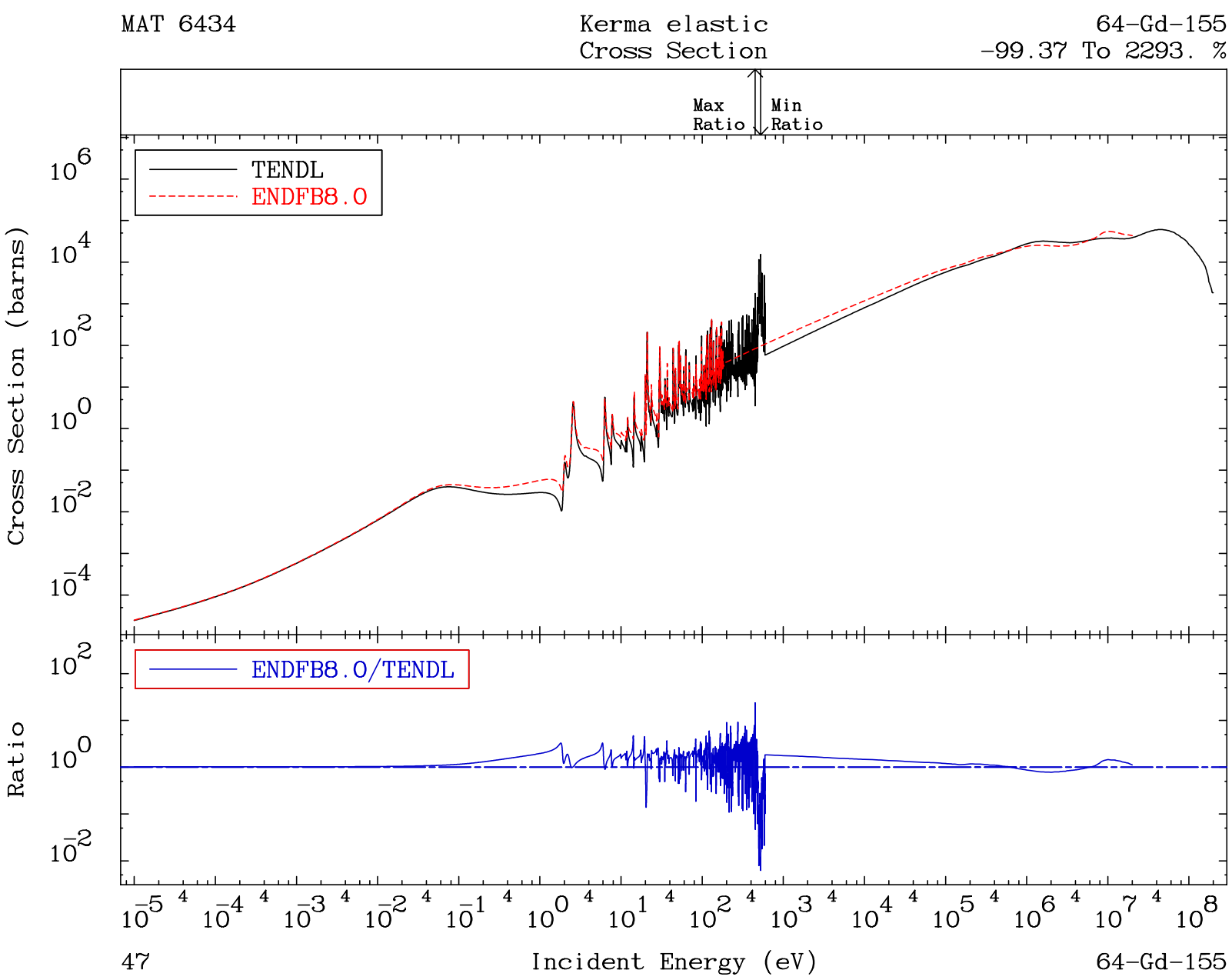

MAT 6434
(n,p)
Cross Section
64-Gd-155
-95.47 To -27.74%
Min Ratio
Max Ratio
TENDL Threshold 595.98 eV
ENDFB8.0 Threshold 1.0000 MeV
Cross Section (milli-barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
42
64-Gd-155

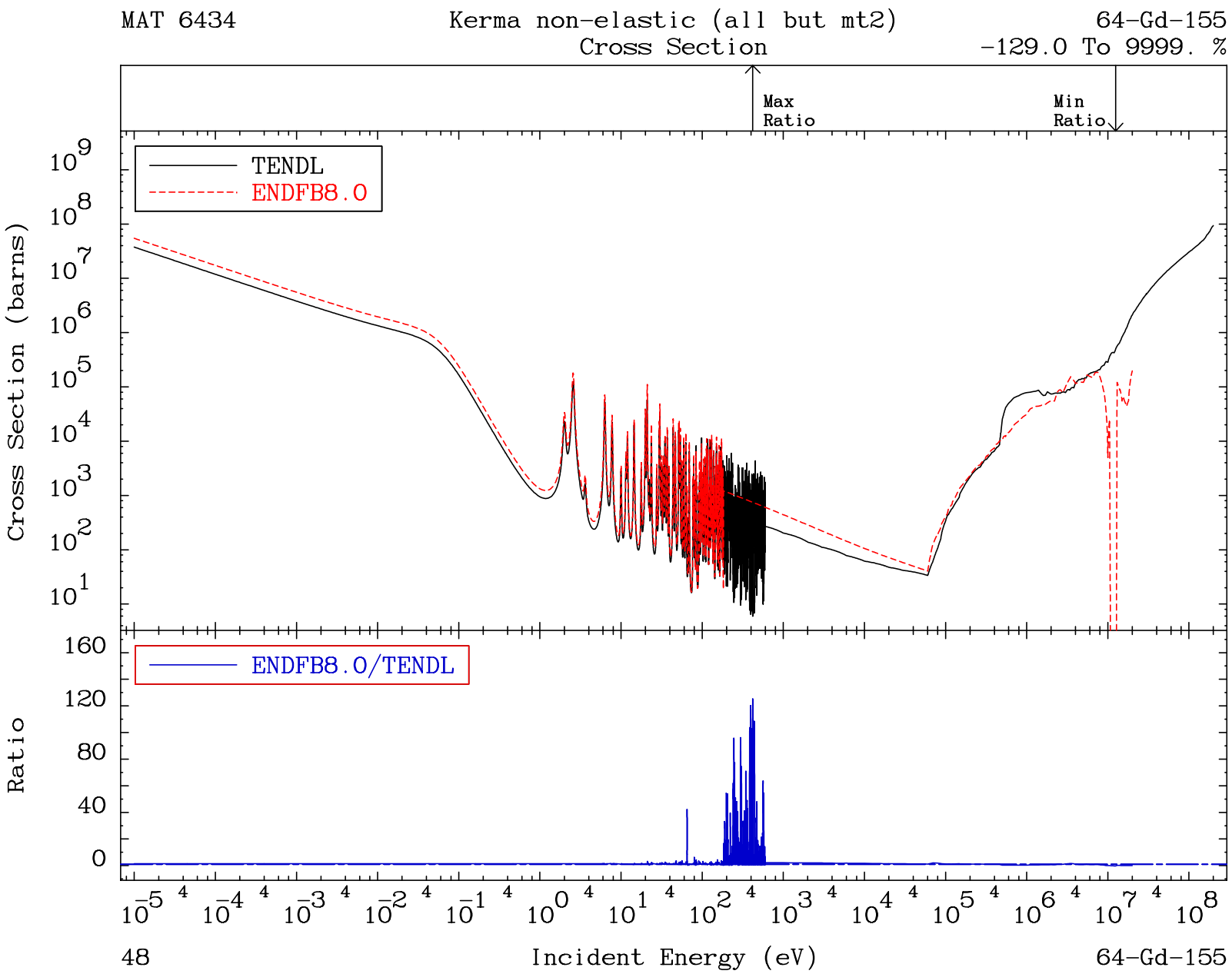

MAT 6434
(n,α)
Cross Section
64-Gd-155
-98.22 To 4255. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
43
64-Gd-155

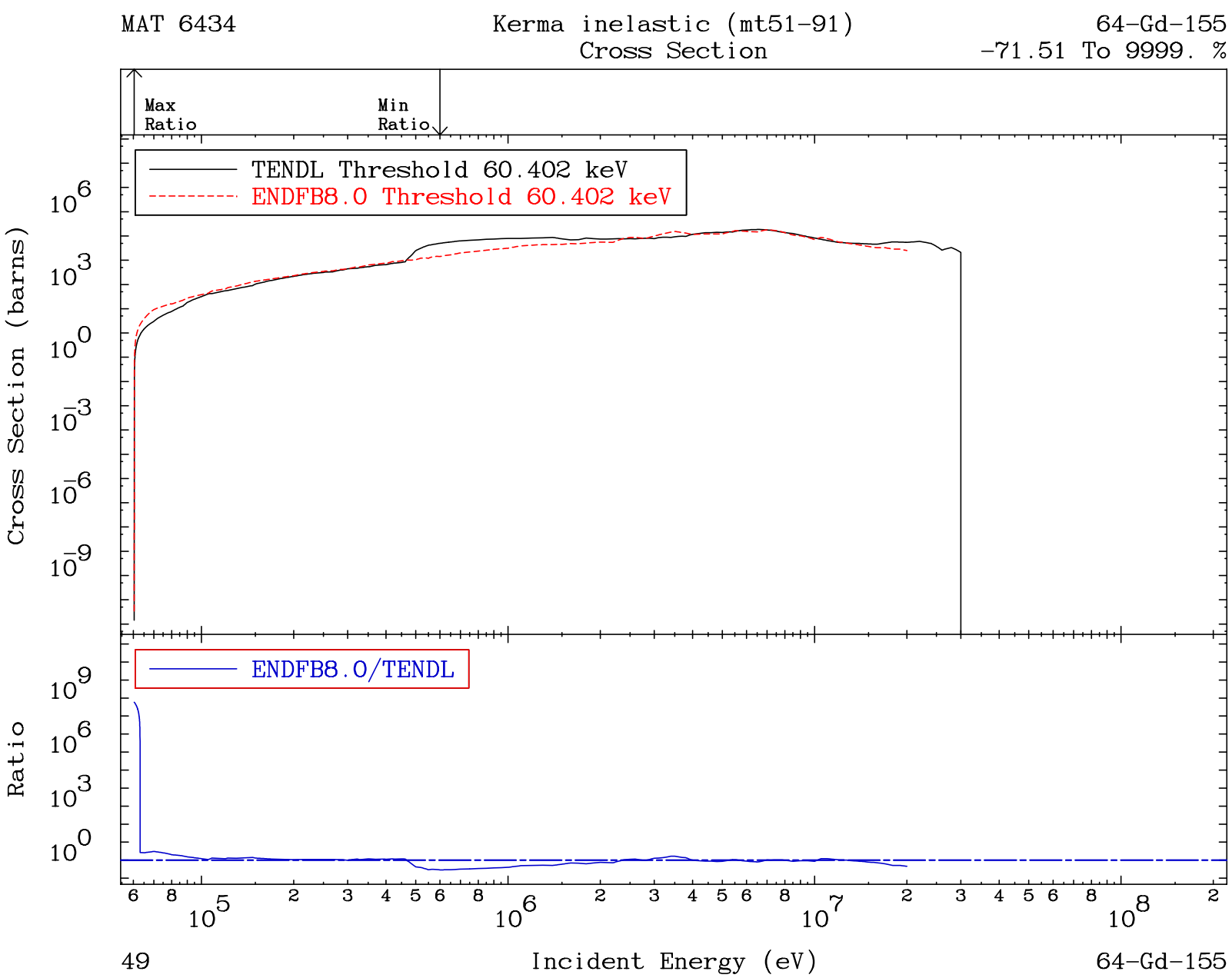

MAT 6434
Hydrogen Production
Cross Section
64-Gd-155
-95.47 To -27.74%
Min
Ratio
Max
Ratio
TENDL Threshold 595.98 eV
ENDFB8.0 Threshold 1.0000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
10^0
10^-1
10^3
10^4
10^5
10^6
10^7
10^8
Incident Energy (eV)
44
64-Gd-155

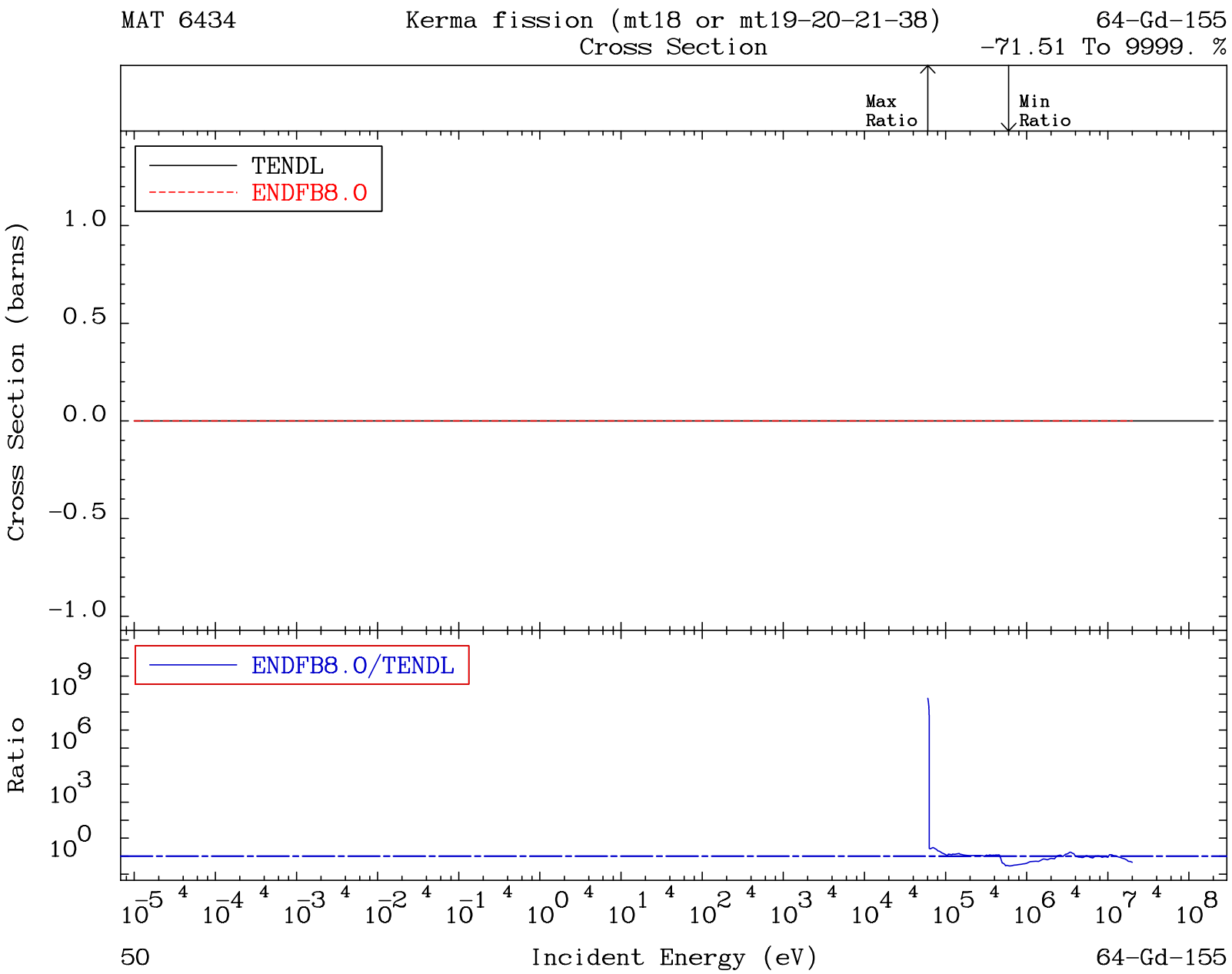

MAT 6434
He-4 Production
Cross Section
64-Gd-155
-98.22 To 4255. %
Min
Ratio
Max
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
45
64-Gd-155

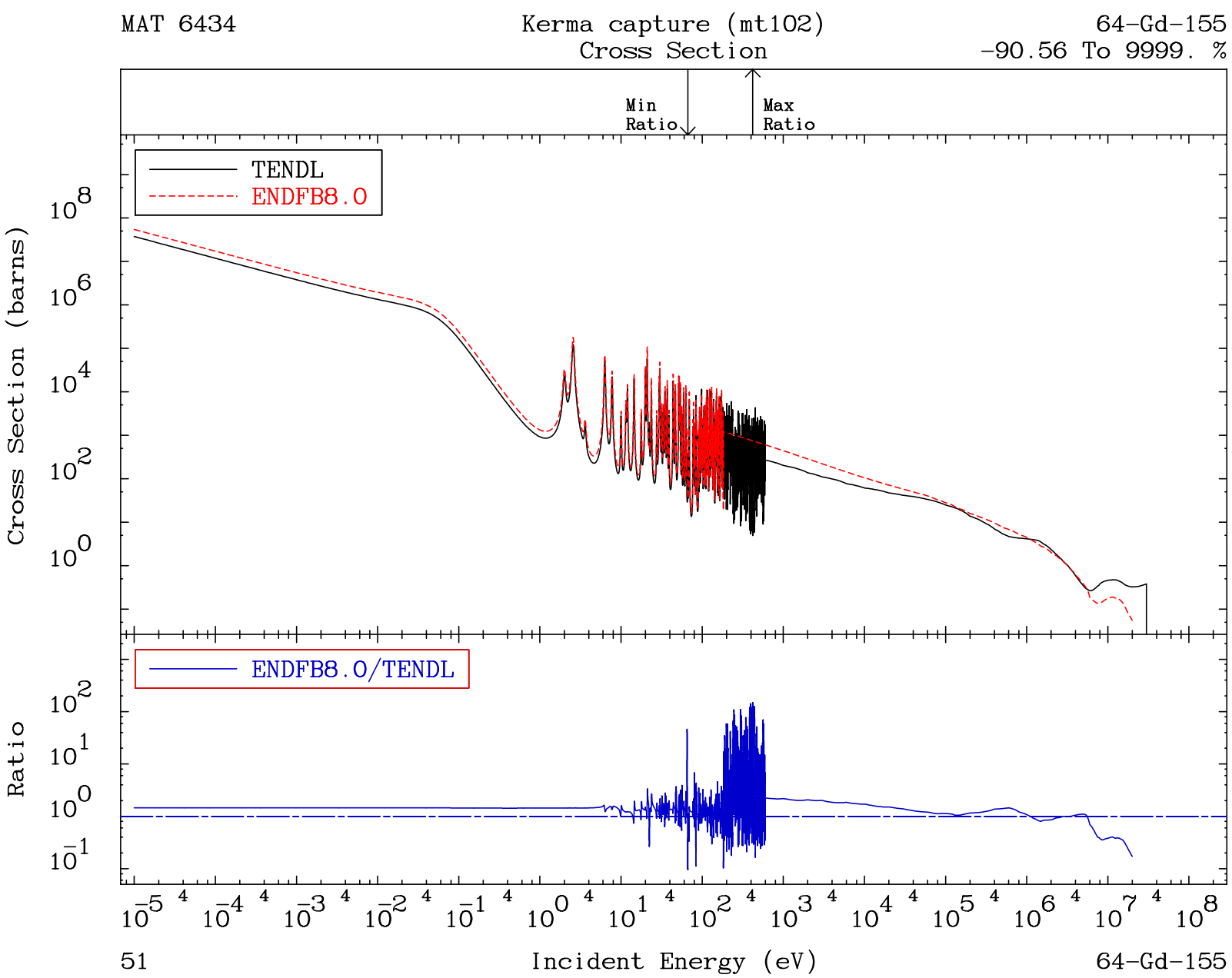

MAT 6434
Kerma total (eV-barns)
Cross Section
64-Gd-155
-117.2 To 4414. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
46
64-Gd-155

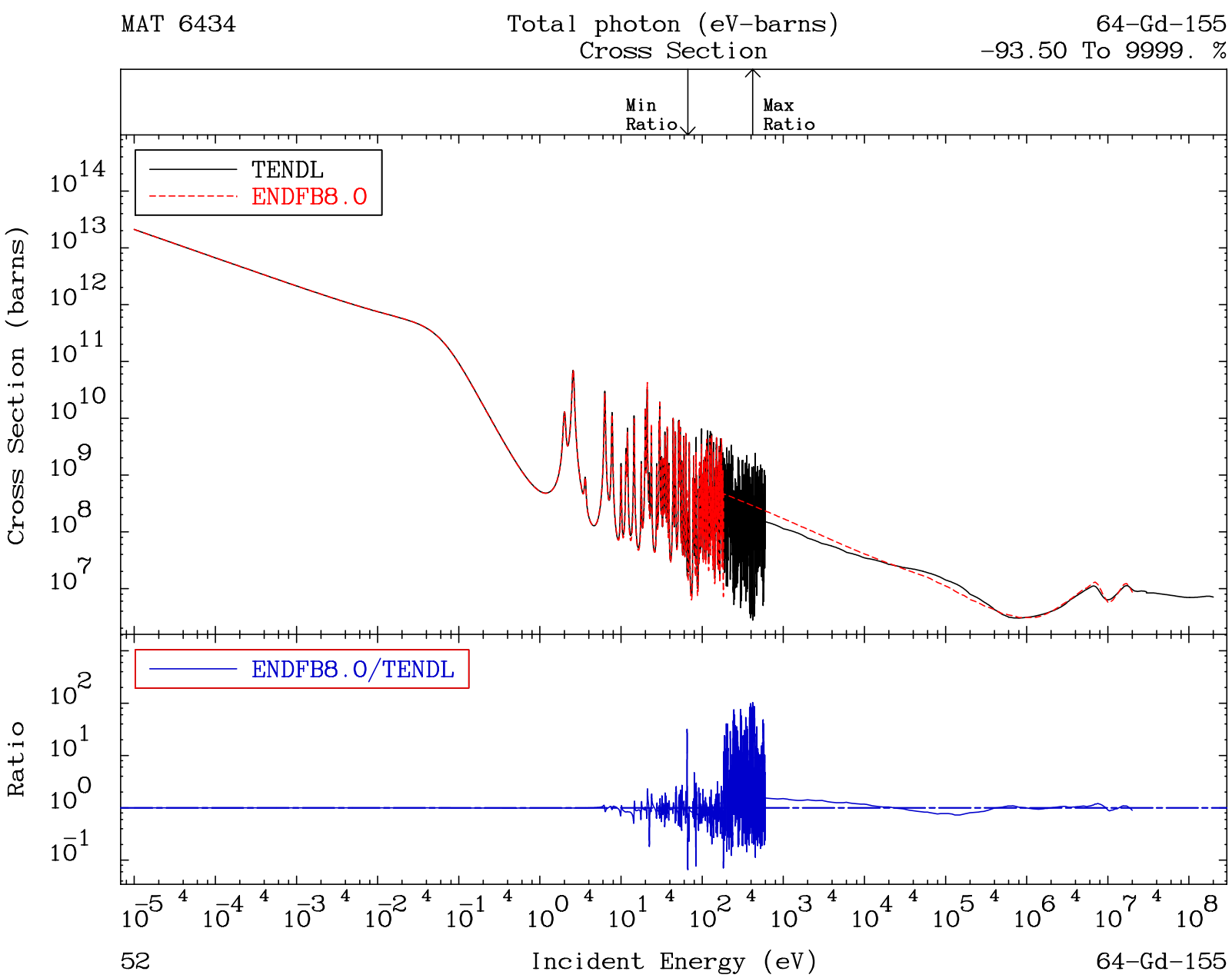

MAT 6434
Kerma elastic
Cross Section
64-Gd-155
-99.37 To 2293. %
Max
Ratio
Min
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
47
64-Gd-155

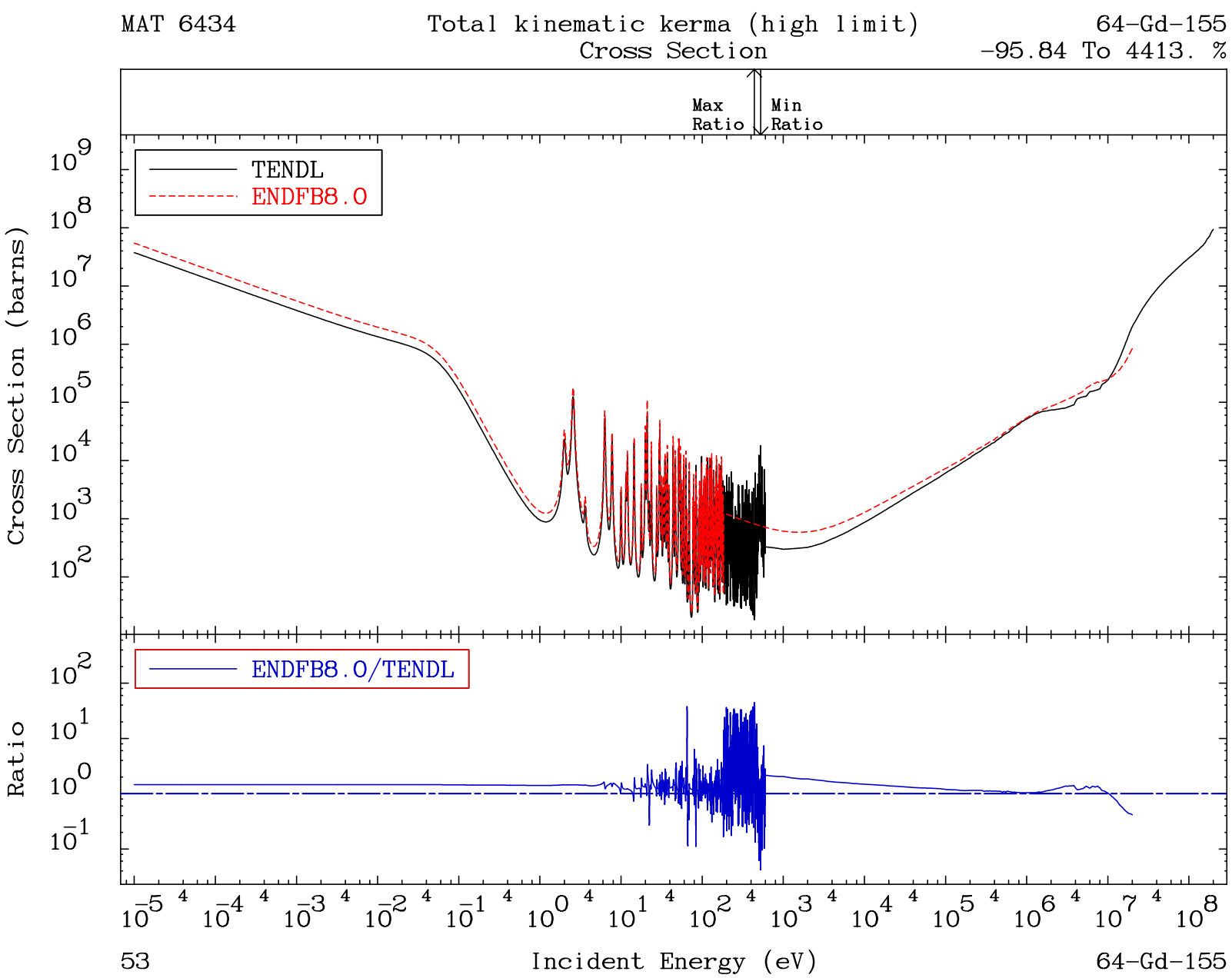

MAT 6434
Kerma non-elastic (all but mt2)
Cross Section
64-Gd-155
-129.0 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
48
64-Gd-155

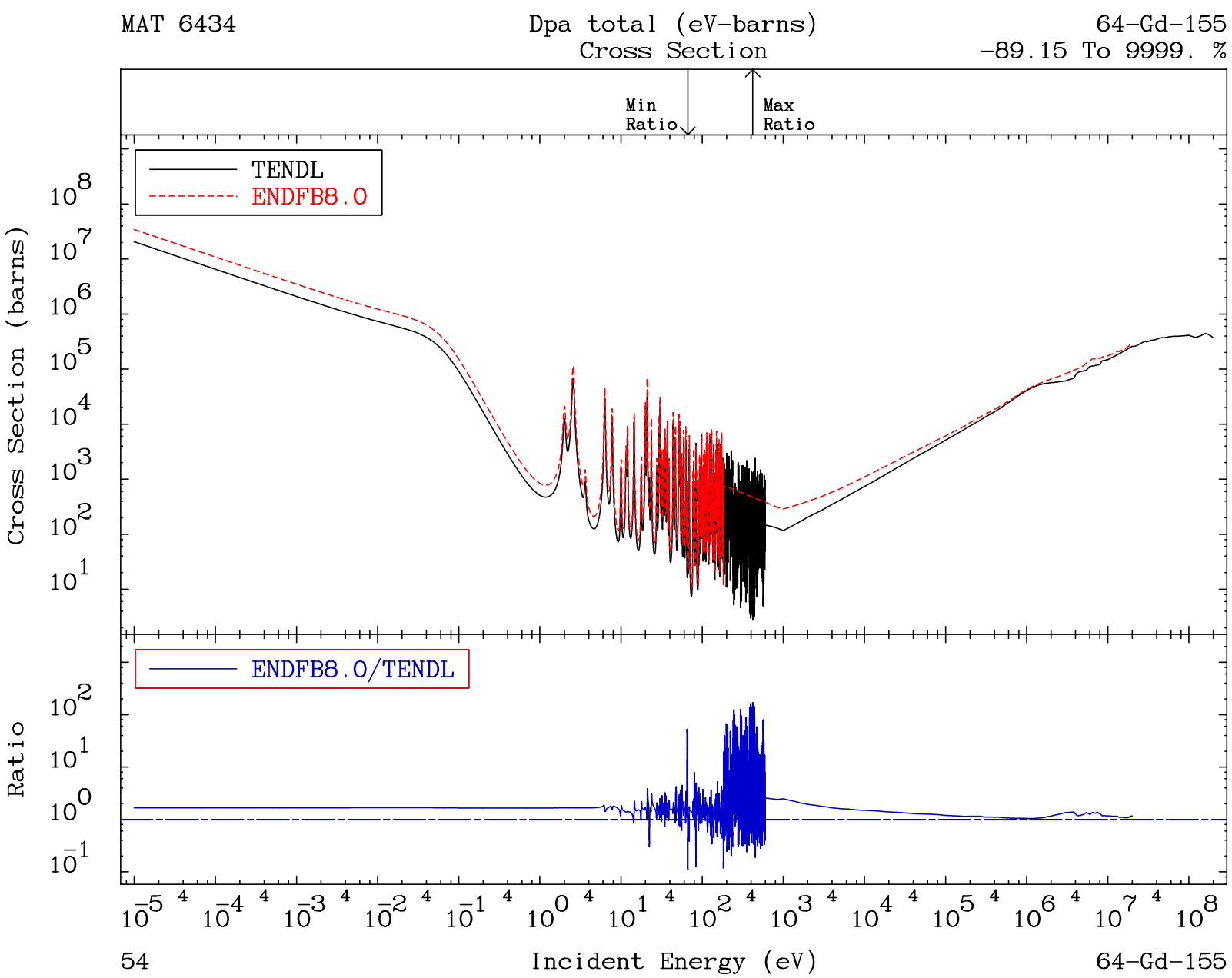

MAT 6434
Kerma inelastic (mt51-91)
Cross Section
64-Gd-155
-71.51 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 60.402 keV
ENDFB8.0 Threshold 60.402 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
49
64-Gd-155

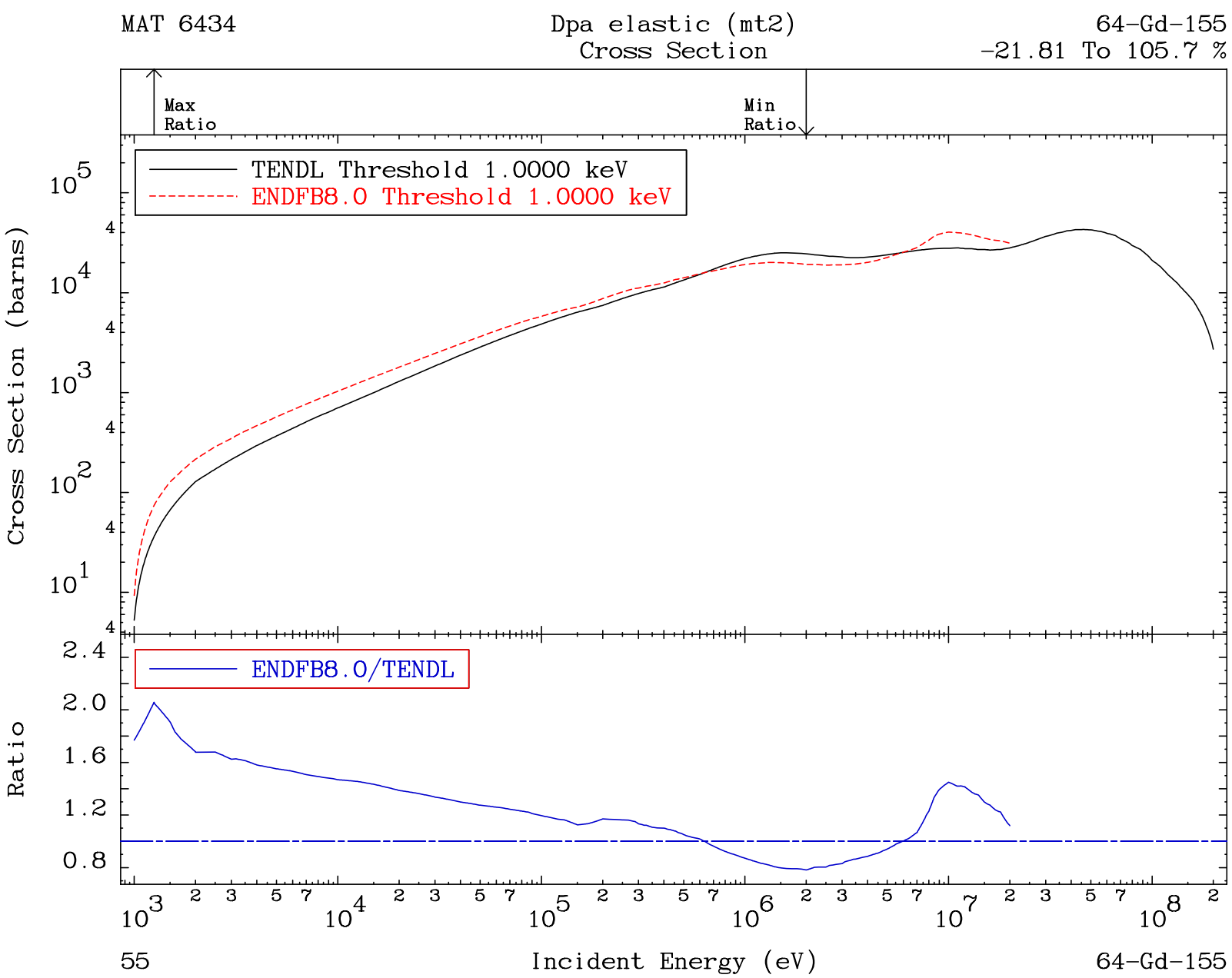

MAT 6434
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
64-Gd-155
-71.51 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
ENDFB8.0/TENDL
Ratio
10^9
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
50
Incident Energy (eV)
64-Gd-155

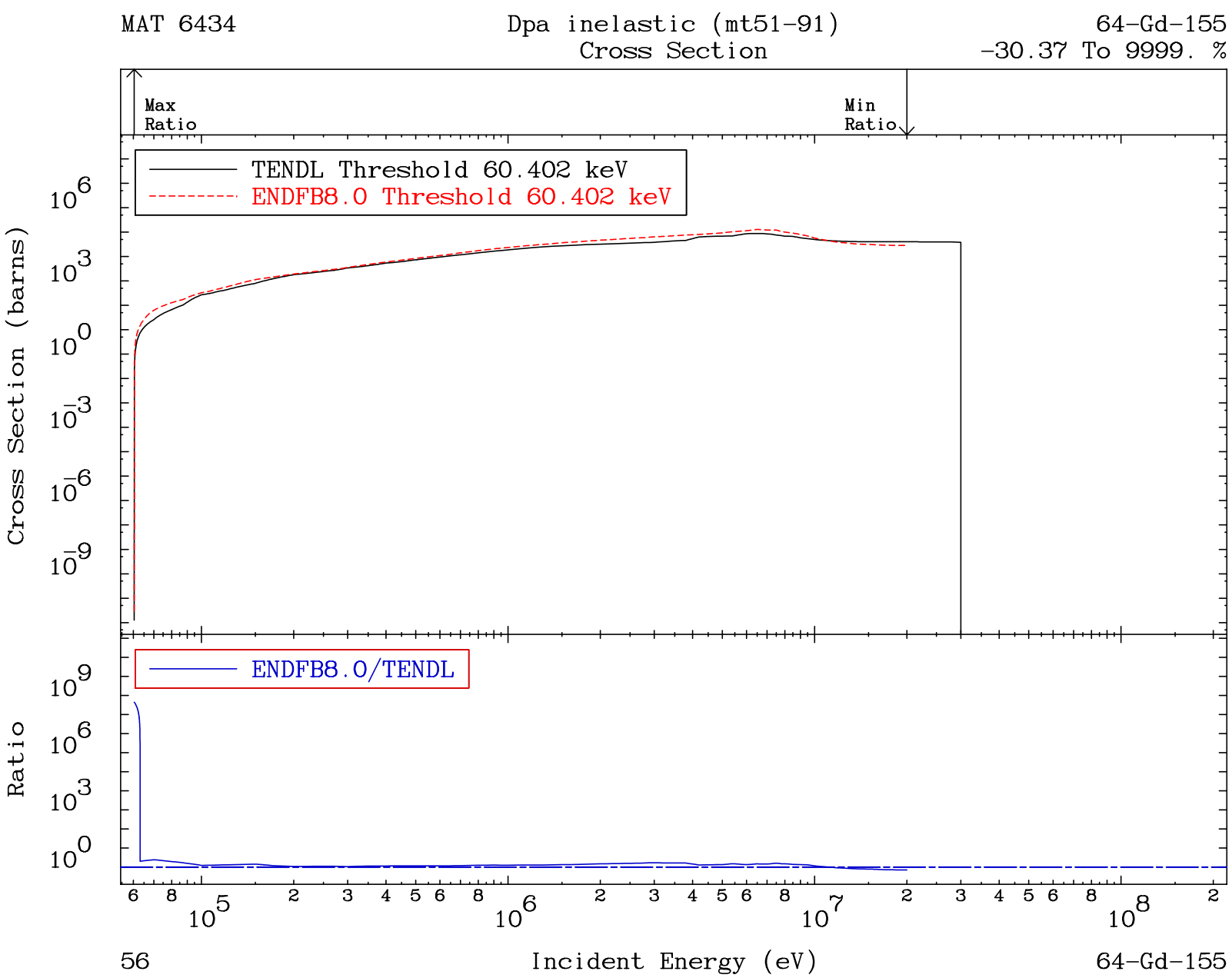

MAT 6434
Kerma capture (mt102)
Cross Section
64-Gd-155
-90.56 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
51
64-Gd-155

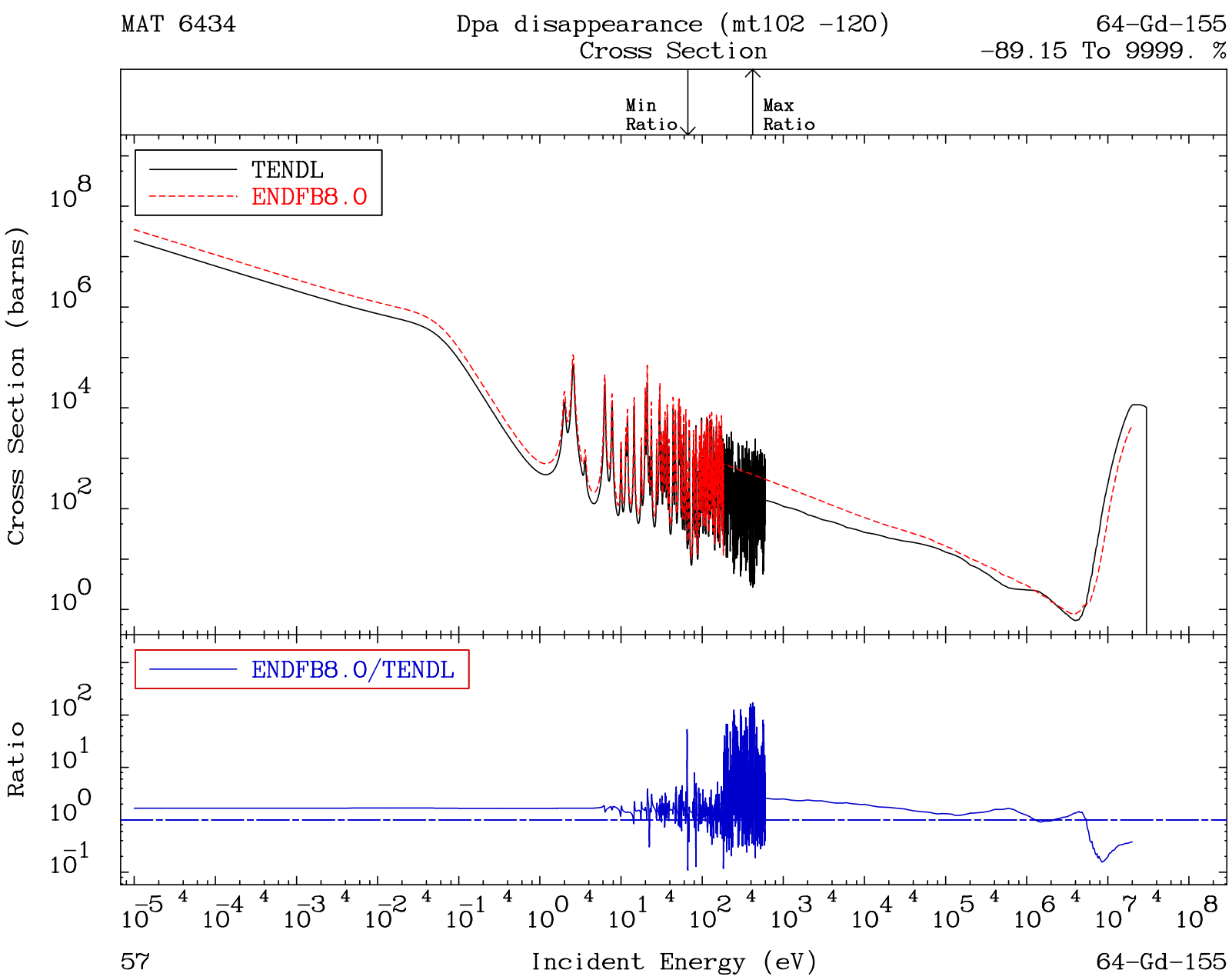

MAT 6434
Total photon (eV-barns)
Cross Section
64-Gd-155
-93.50 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
52
64-Gd-155


MAT 6434
Total kinematic kerma (high limit)
Cross Section
64-Gd-155
-95.84 To 4413. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
53
64-Gd-155


MAT 6434
Dpa total (eV-barns)
Cross Section
64-Gd-155
-89.15 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
54
64-Gd-155


MAT 6434
Dpa elastic (mt2)
Cross Section
64-Gd-155
-21.81 To 105.7 %
Max Ratio
Min Ratio
TENDL Threshold 1.0000 keV
ENDFB8.0 Threshold 1.0000 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
55
64-Gd-155


MAT 6434
Dpa inelastic (mt51-91)
Cross Section
64-Gd-155
-30.37 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 60.402 keV
ENDFB8.0 Threshold 60.402 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
56
64-Gd-155


MAT 6434
Dpa disappearance (mt102 -120)
Cross Section
64-Gd-155
-89.15 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
57
64-Gd-155