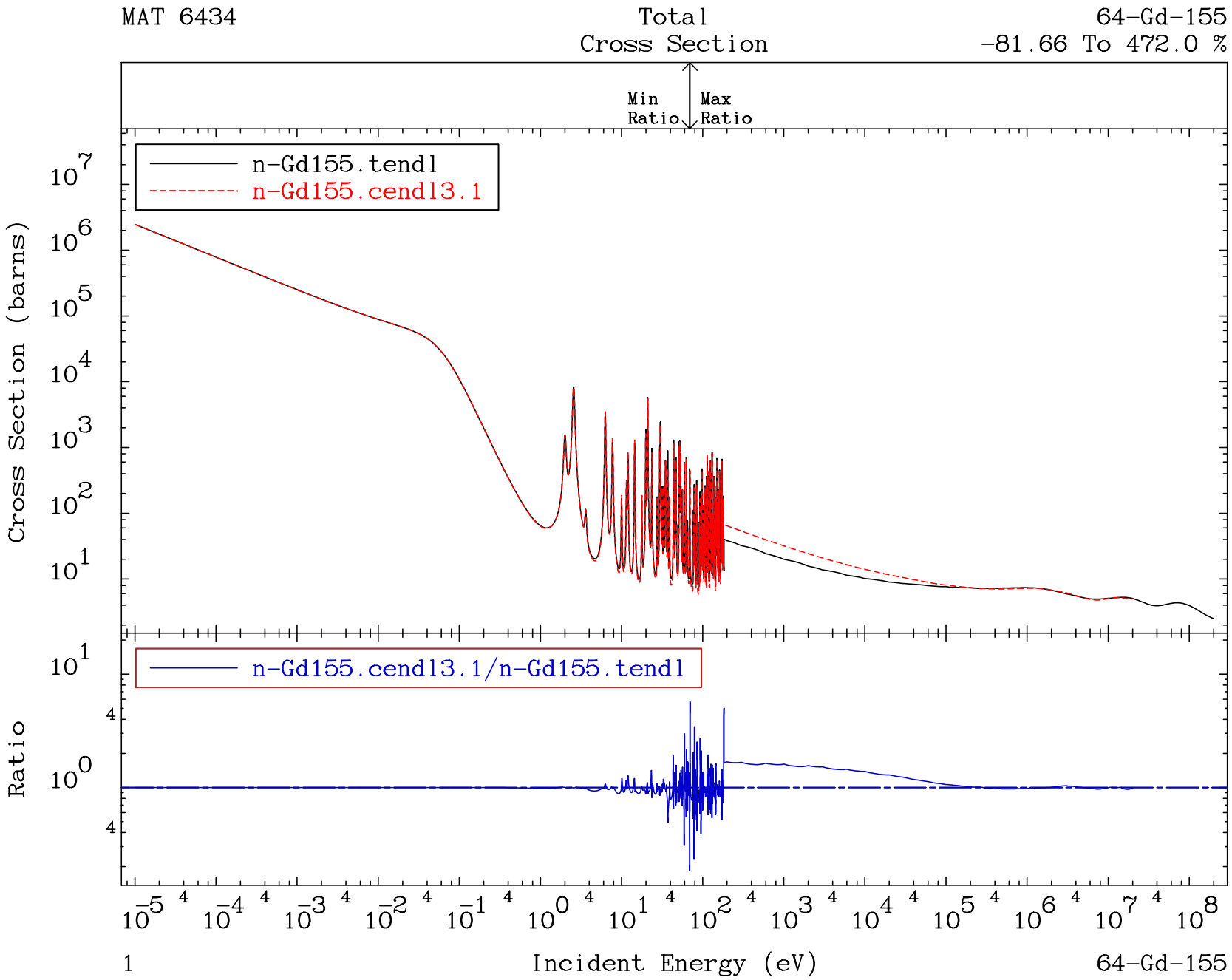
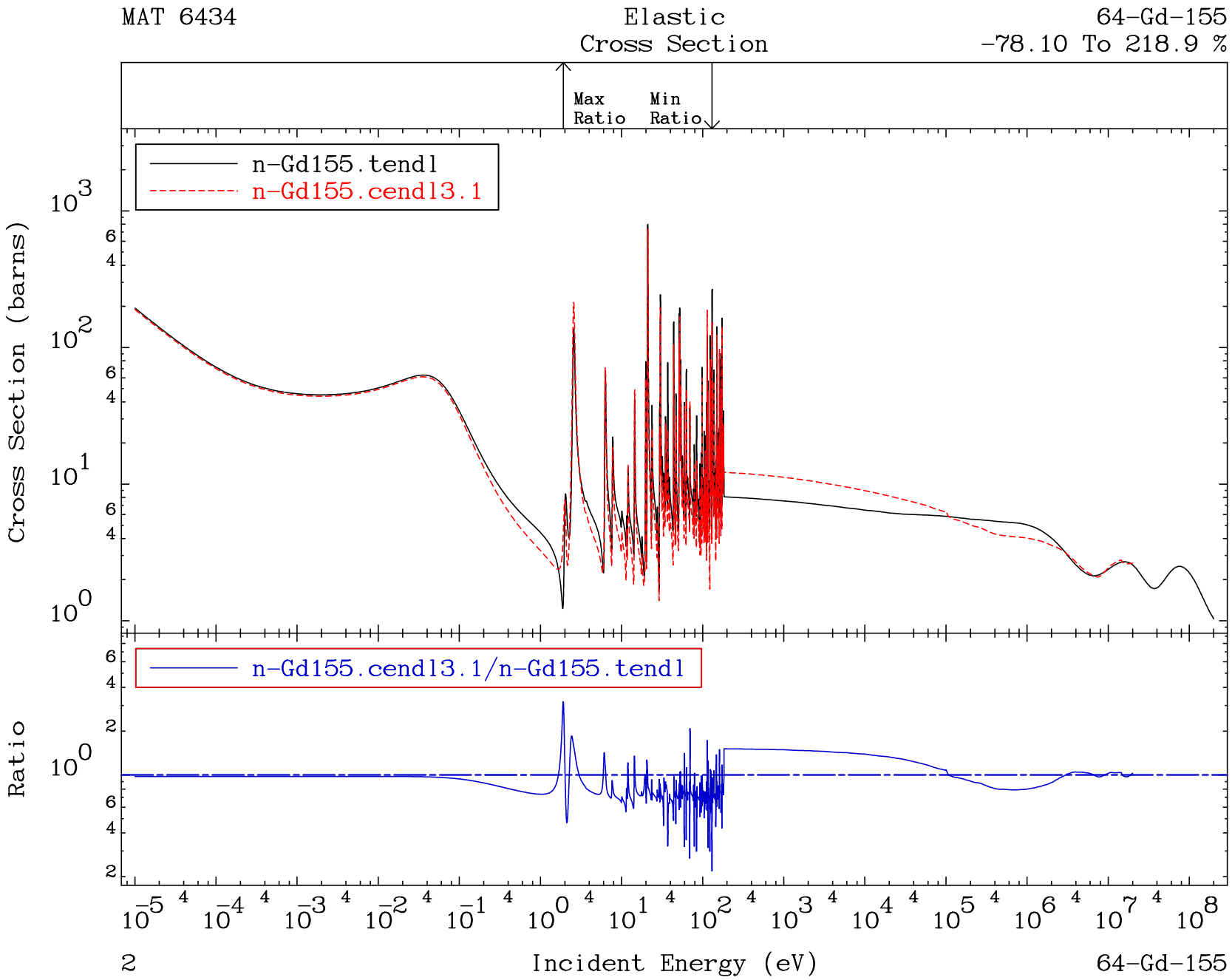
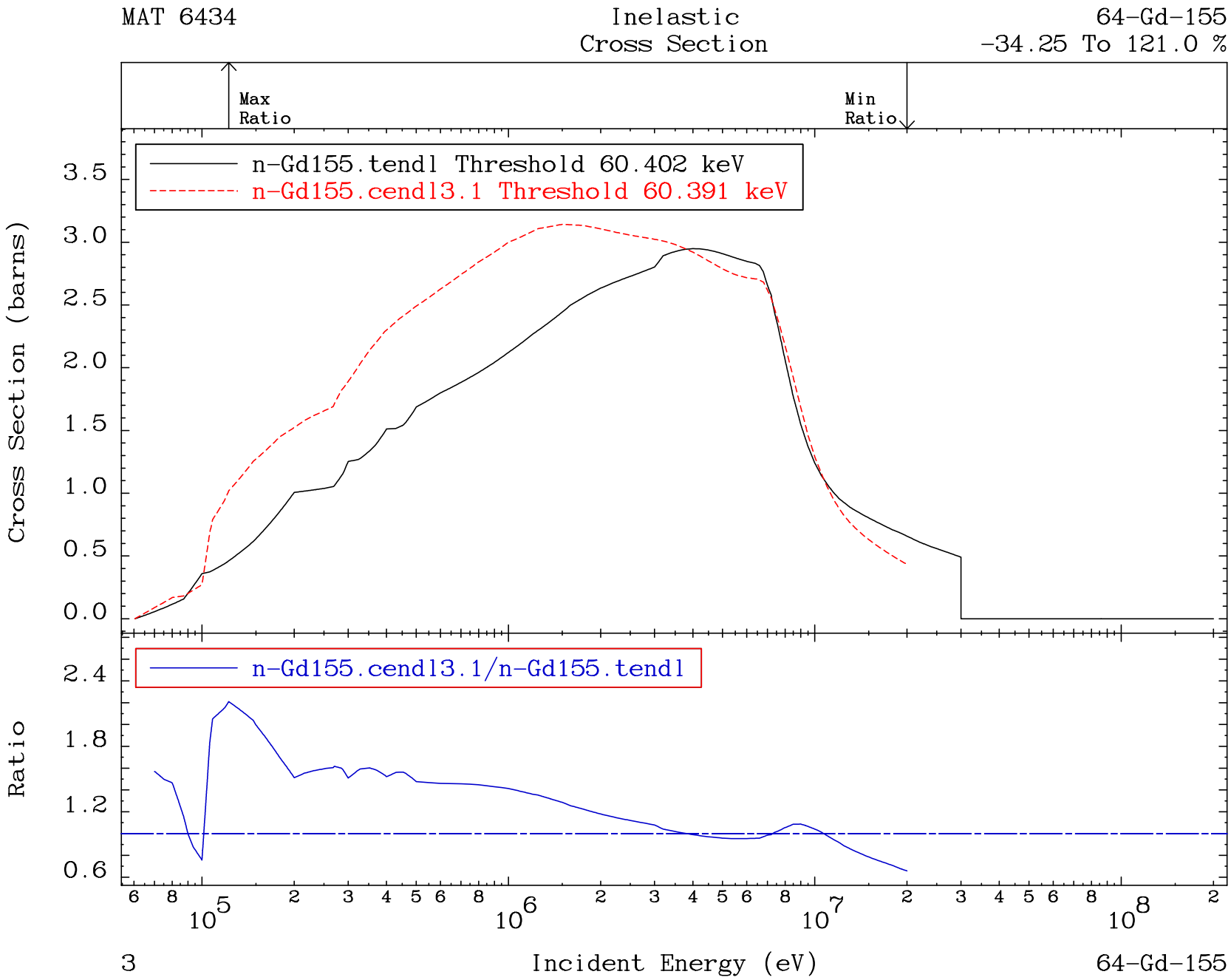
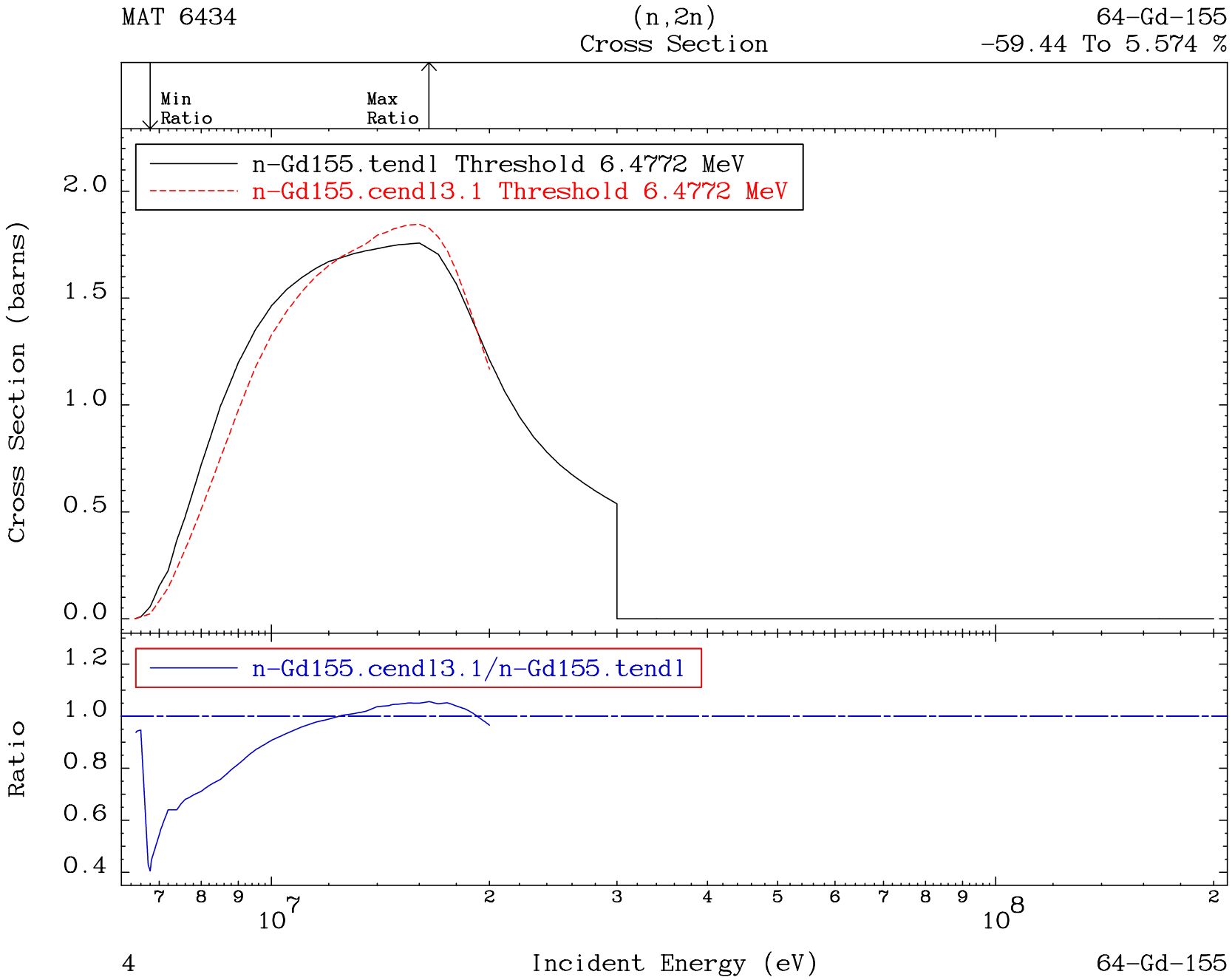
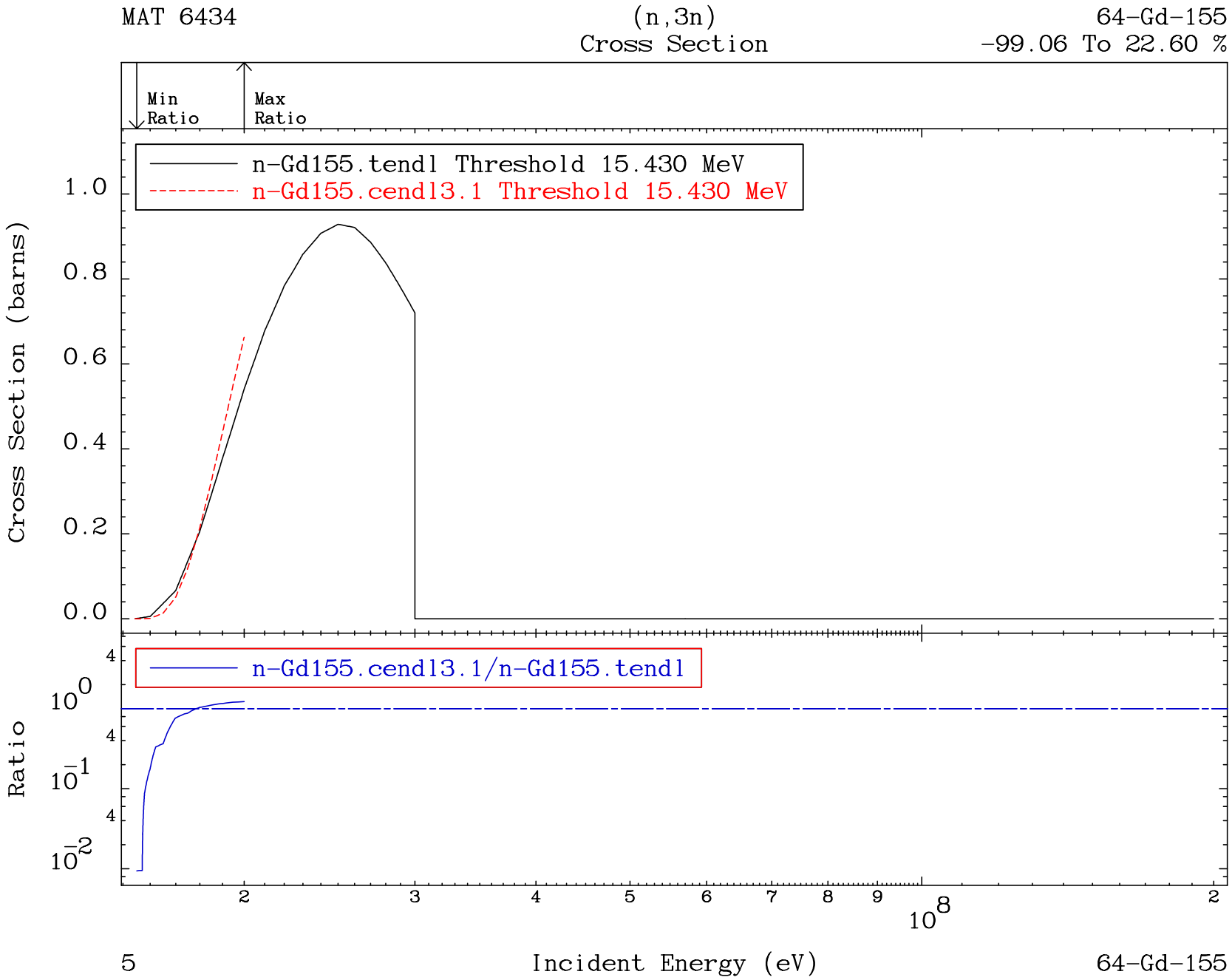
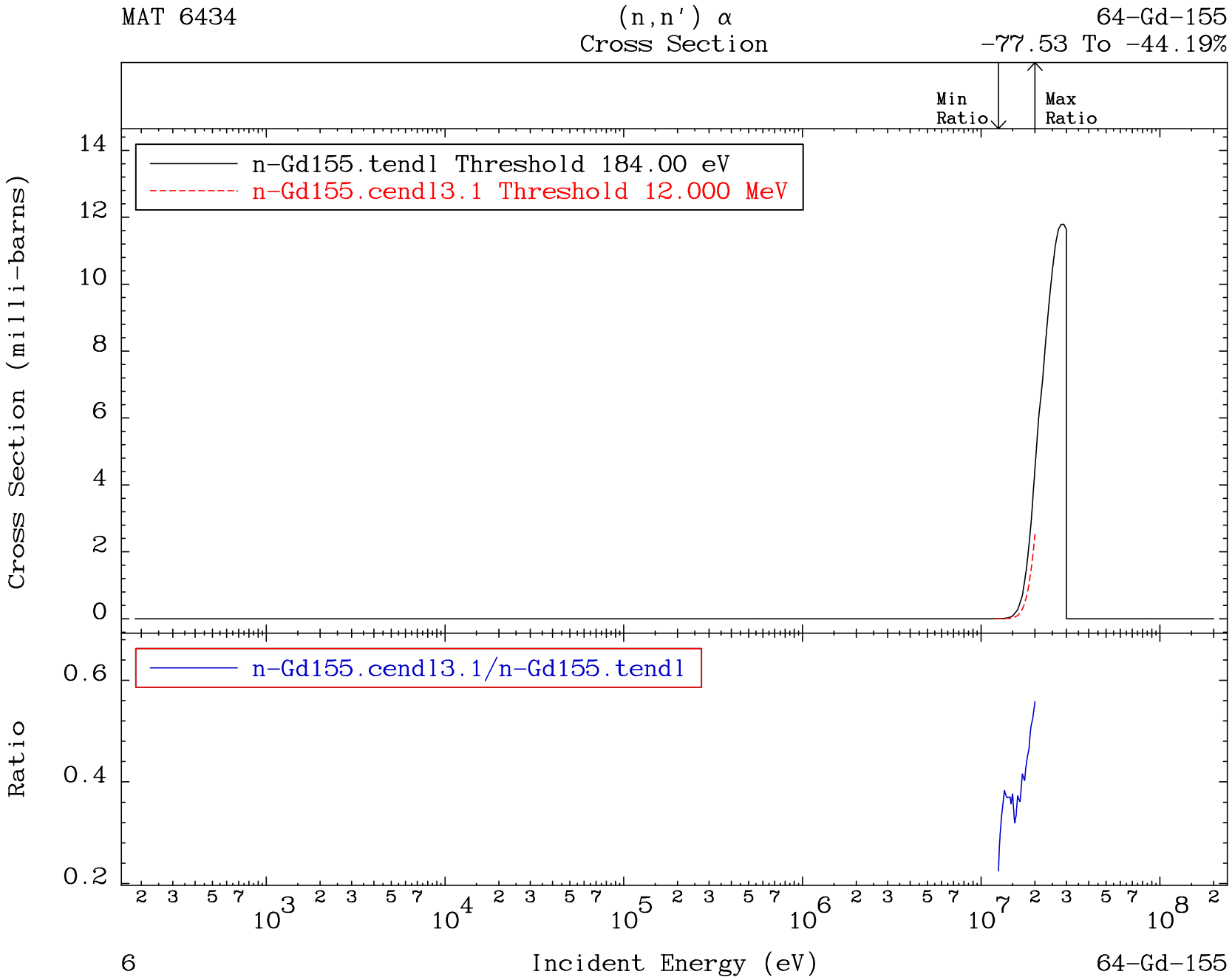

MAT 6434
Total
Cross Section
64-Gd-155
-81.66 To 472.0 %
Min Ratio
Max Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
64-Gd-155
1

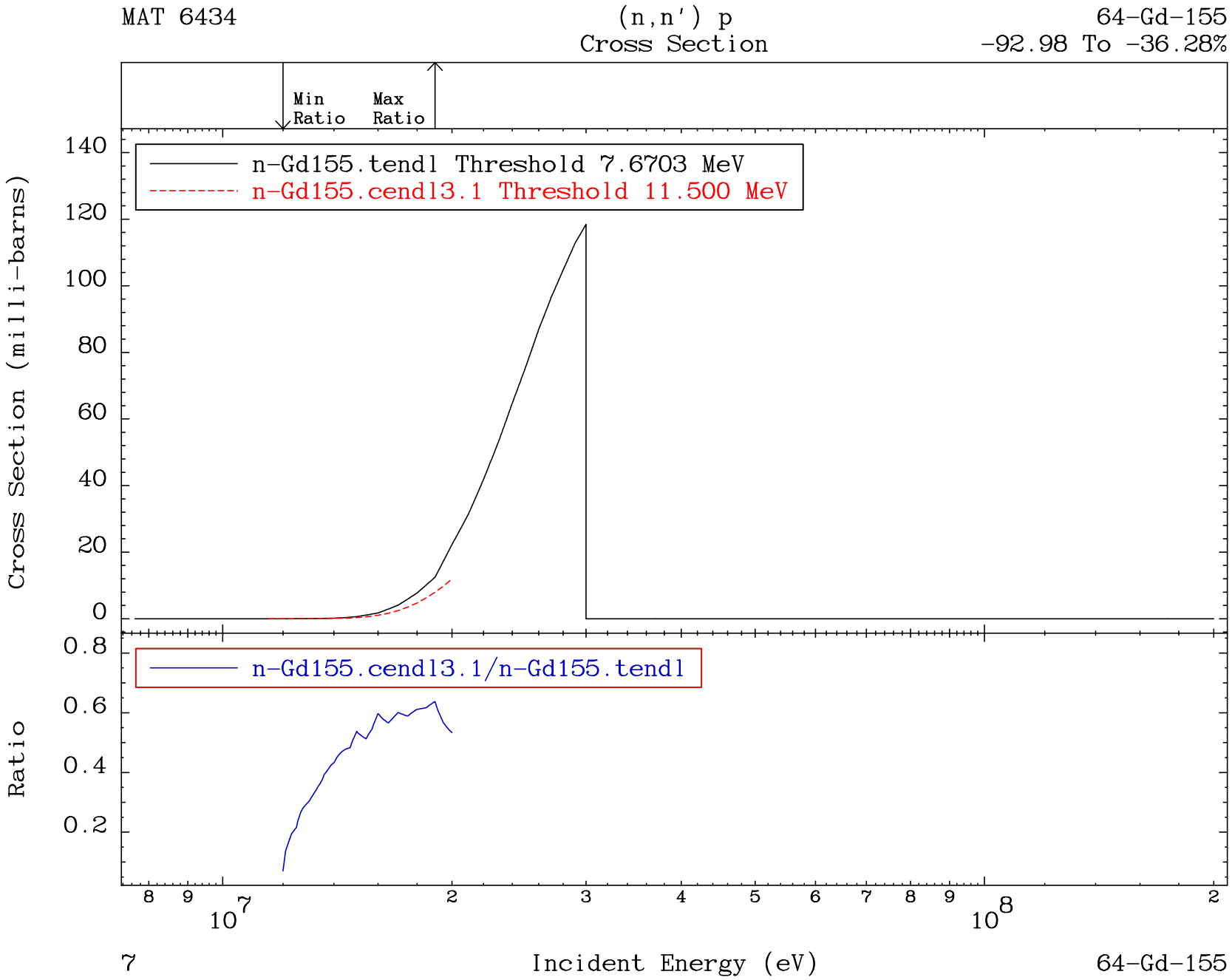

MAT 6434
Elastic
Cross Section
64-Gd-155
-78.10 To 218.9 %
Max
Ratio
Min
Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
2
64-Gd-155

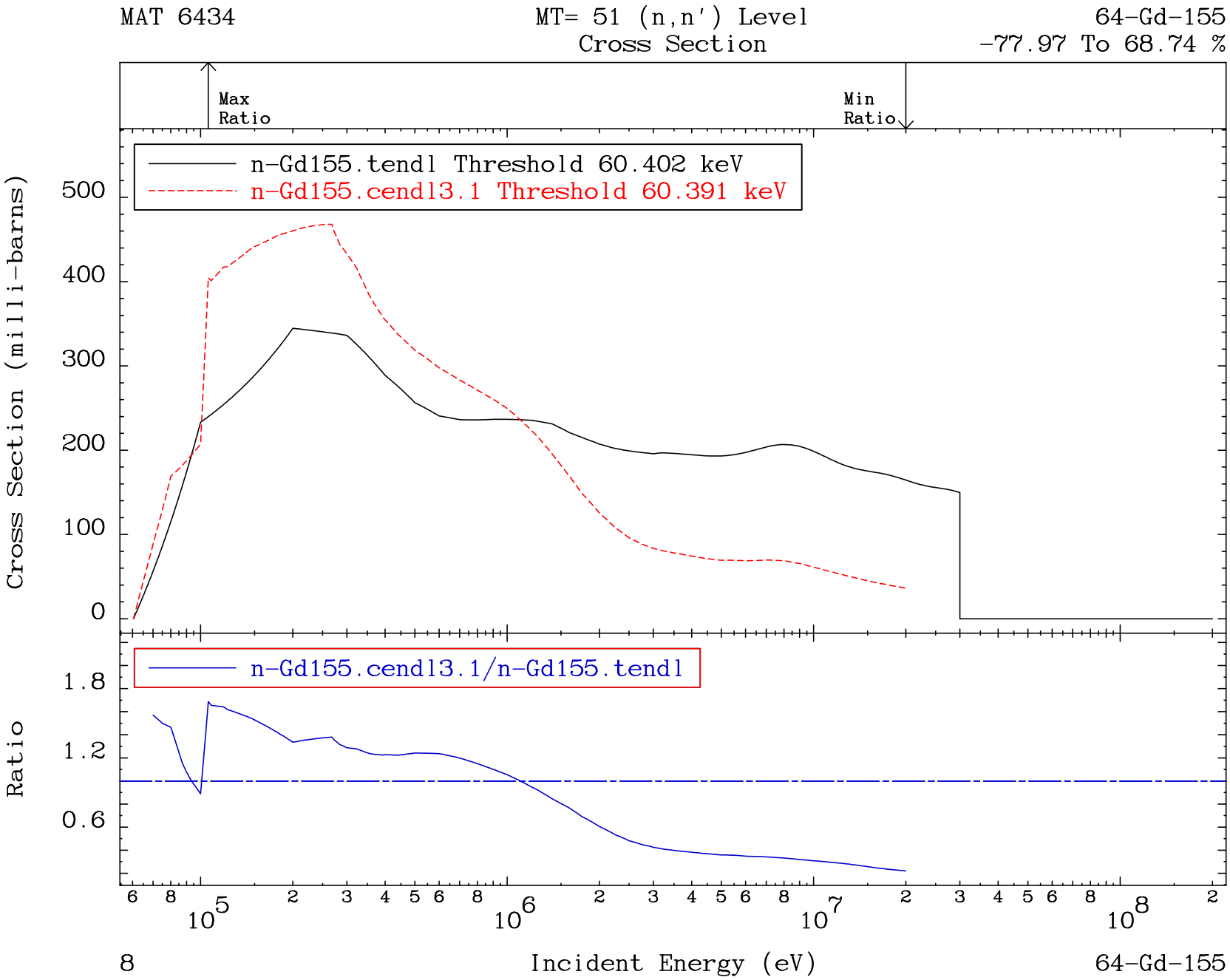

MAT 6434
Inelastic
Cross Section
64-Gd-155
-34.25 To 121.0 %
Max
Ratio
Min
Ratio
n-Gd155.tendl Threshold 60.402 keV
n-Gd155.cendl3.1 Threshold 60.391 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
2.4
1.8
1.2
0.6
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
64-Gd-155

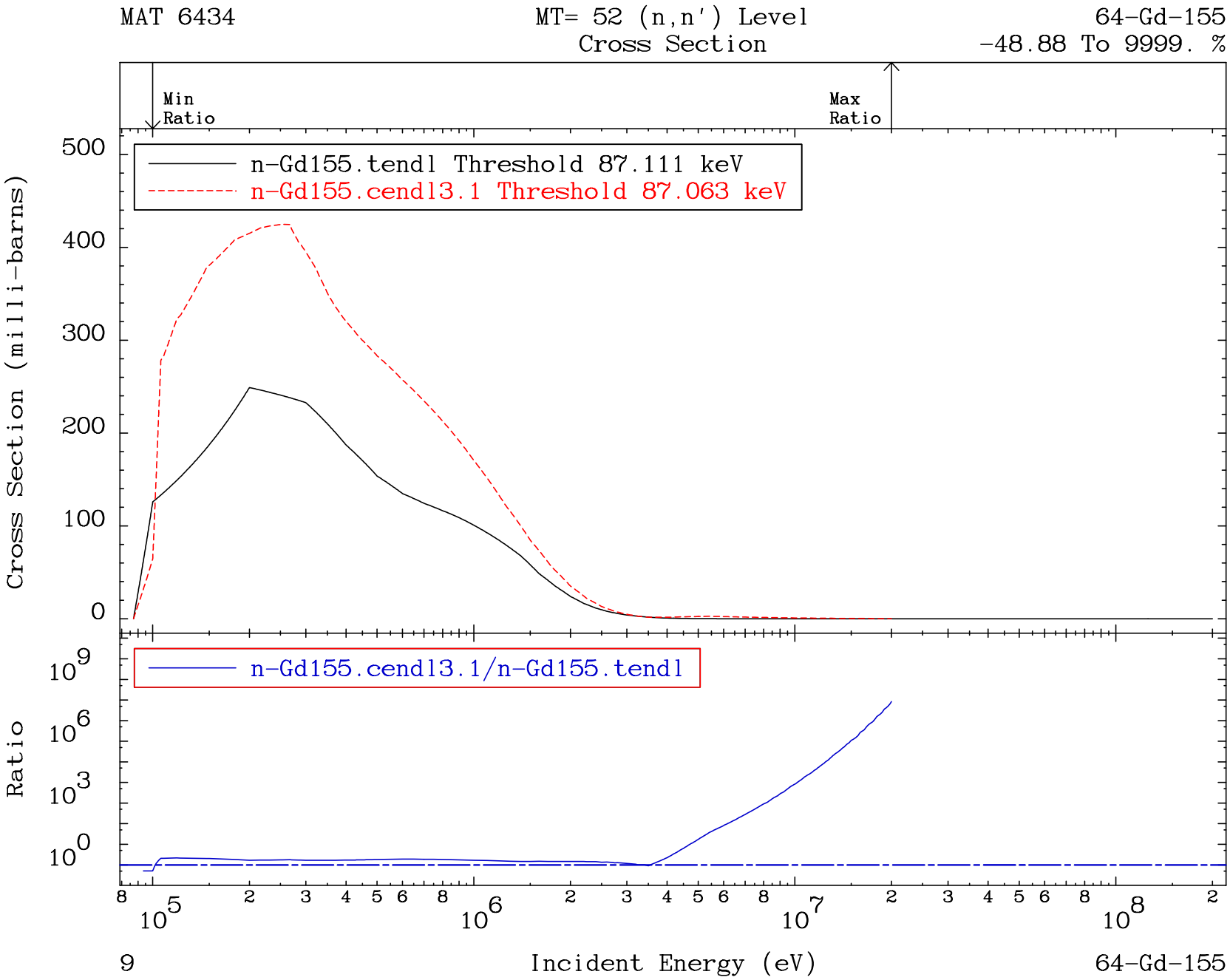

MAT 6434
(n,2n)
Cross Section
64-Gd-155
-59.44 To 5.574 %
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 6.4772 MeV
n-Gd155.cendl3.1 Threshold 6.4772 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
1.2
1.0
0.8
0.6
0.4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
64-Gd-155

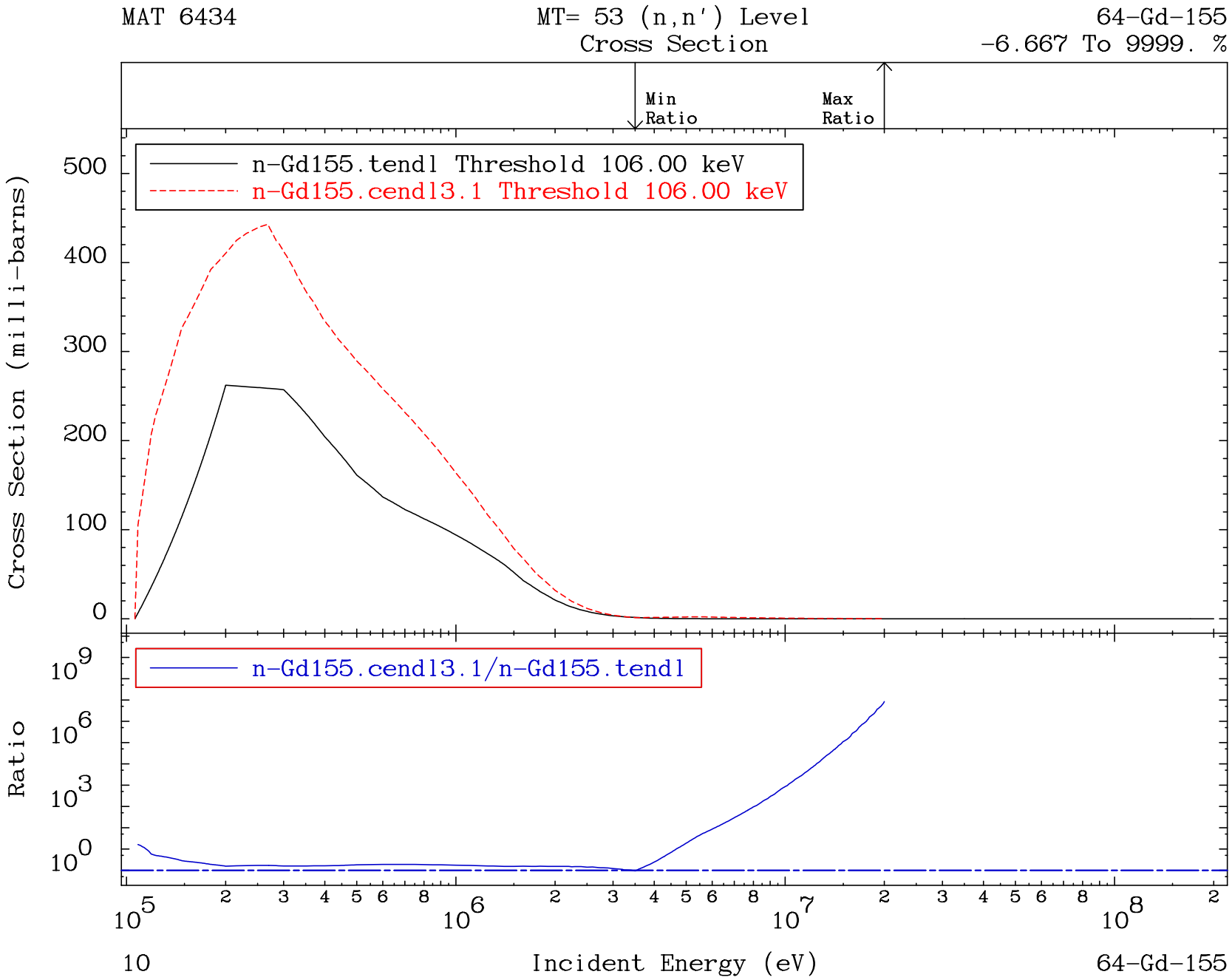

MAT 6434
(n,3n)
Cross Section
64-Gd-155
-99.06 To 22.60 %
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 15.430 MeV
n-Gd155.cendl3.1 Threshold 15.430 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^0
10^-1
10^-2
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
64-Gd-155

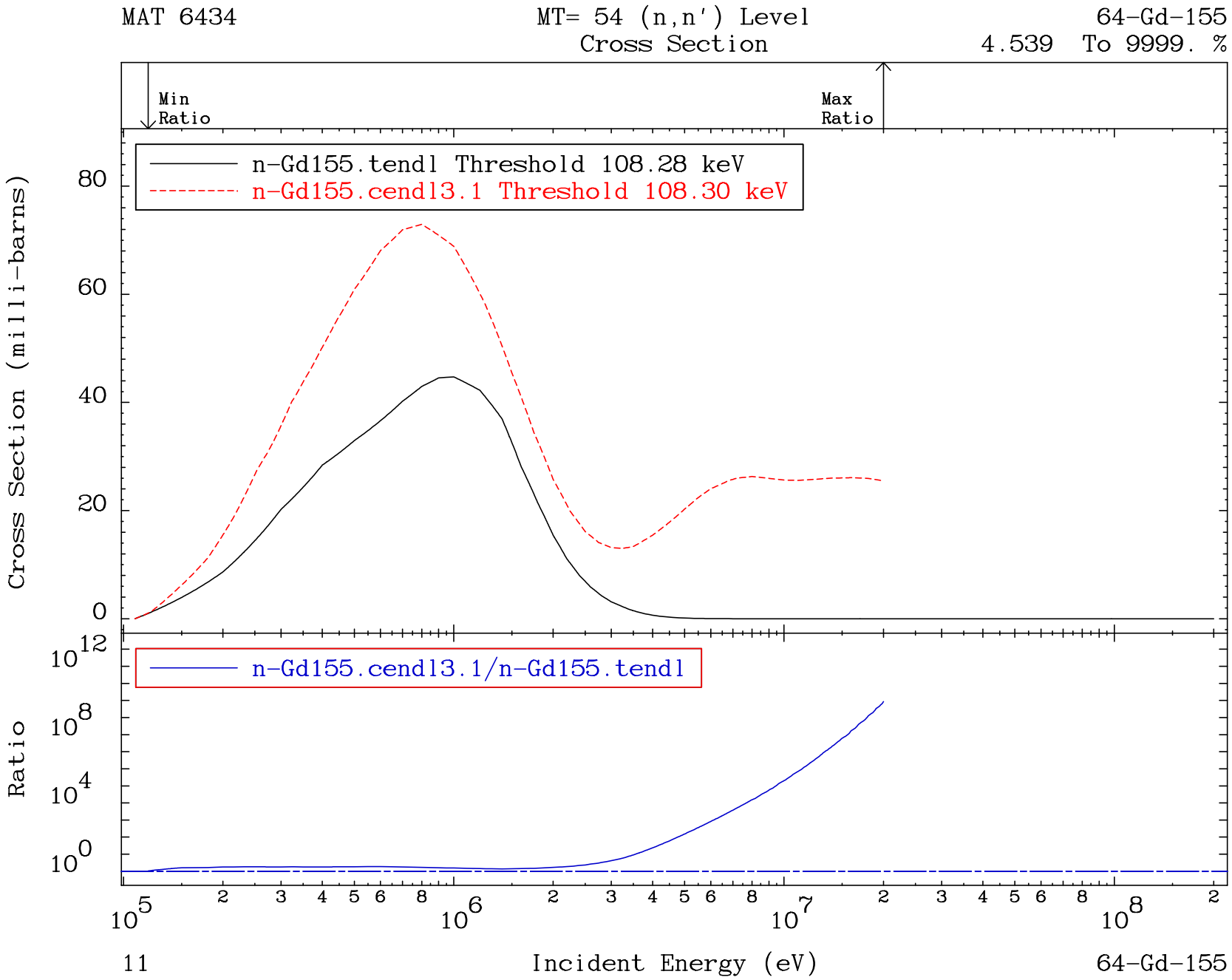

MAT 6434
(n,n') α
Cross Section
64-Gd-155
-77.53 To -44.19%
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 184.00 eV
n-Gd155.cendl3.1 Threshold 12.000 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
0.6
0.4
0.2
2 3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
6
Incident Energy (eV)
64-Gd-155

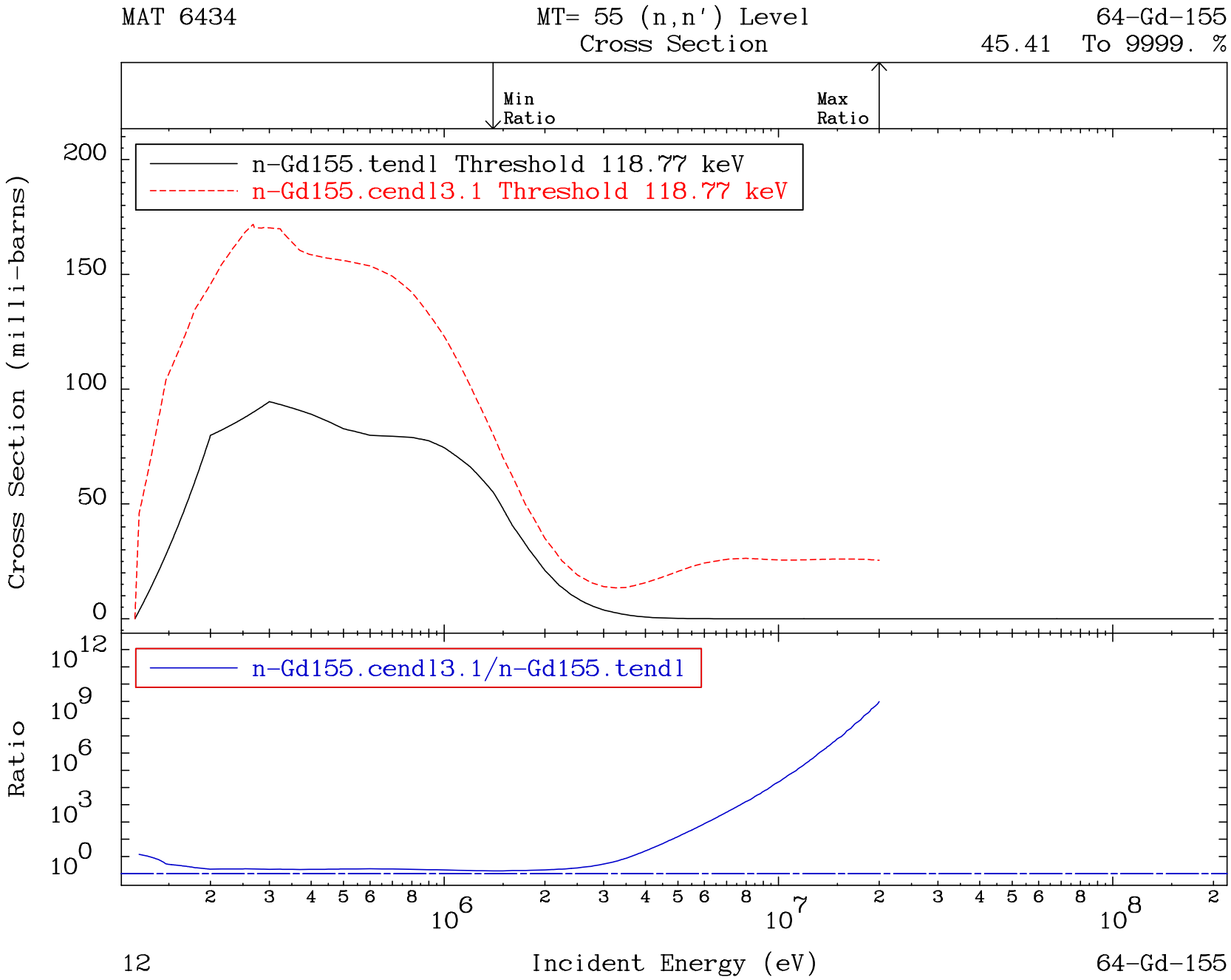

MAT 6434
(n,n') p
Cross Section
64-Gd-155
-92.98 To -36.28%
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 7.6703 MeV
n-Gd155.cendl3.1 Threshold 11.500 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
0.8
0.6
0.4
0.2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
64-Gd-155

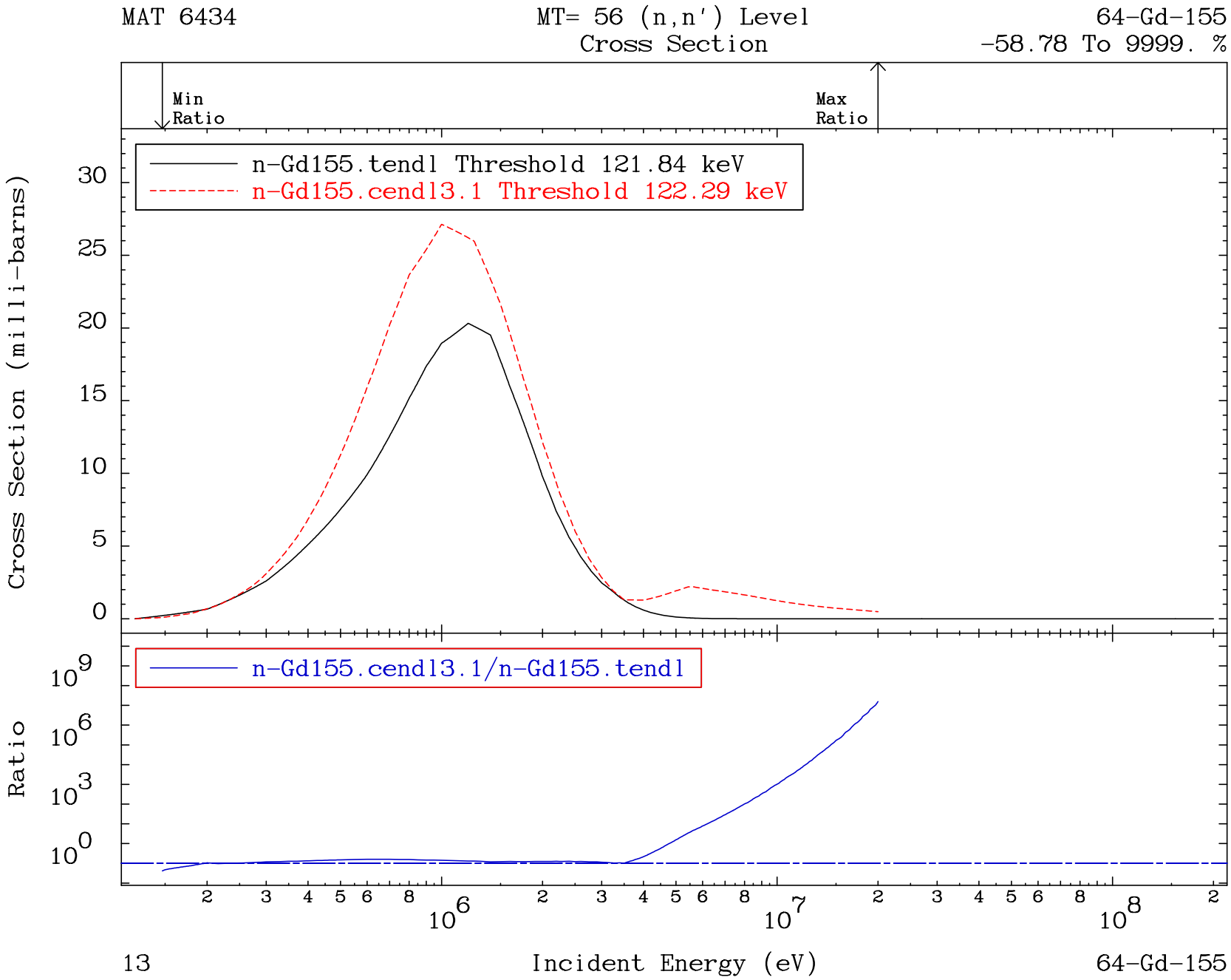

MAT 6434
MT= 51 (n,n') Level
Cross Section
64-Gd-155
-77.97 To 68.74 %
Max
Ratio
Min
Ratio
n-Gd155.tendl Threshold 60.402 keV
n-Gd155.cendl3.1 Threshold 60.391 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
1.8
1.2
0.6
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
64-Gd-155

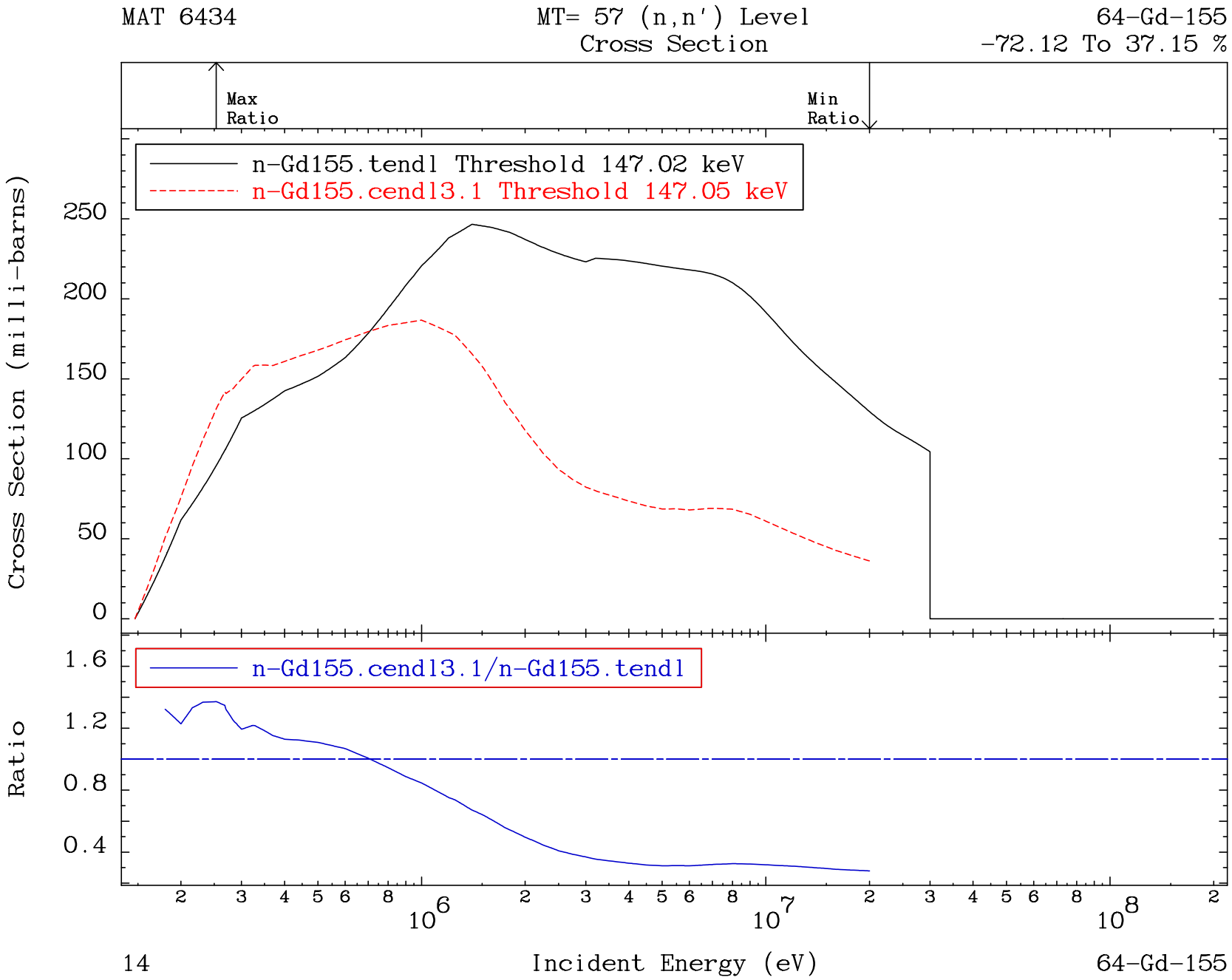

MAT 6434
MT= 52 (n,n') Level
Cross Section
64-Gd-155
-48.88 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 87.111 keV
n-Gd155.cendl3.1 Threshold 87.063 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
9
Incident Energy (eV)
64-Gd-155

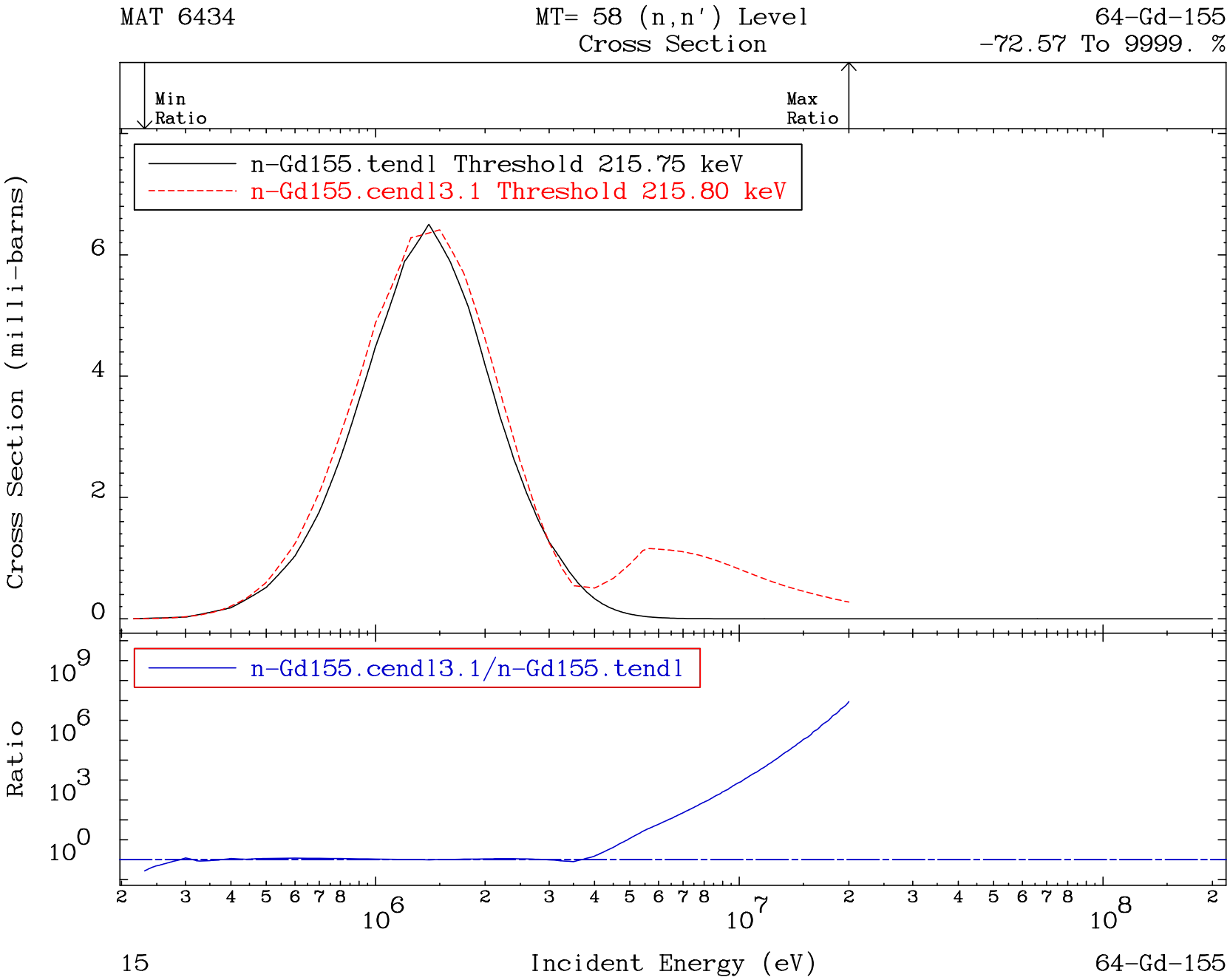

MAT 6434
MT= 53 (n,n') Level
Cross Section
64-Gd-155
-6.667 To 9999. %
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 106.00 keV
n-Gd155.cendl3.1 Threshold 106.00 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
10^5
10^6
10^7
10^8
10
Incident Energy (eV)
64-Gd-155

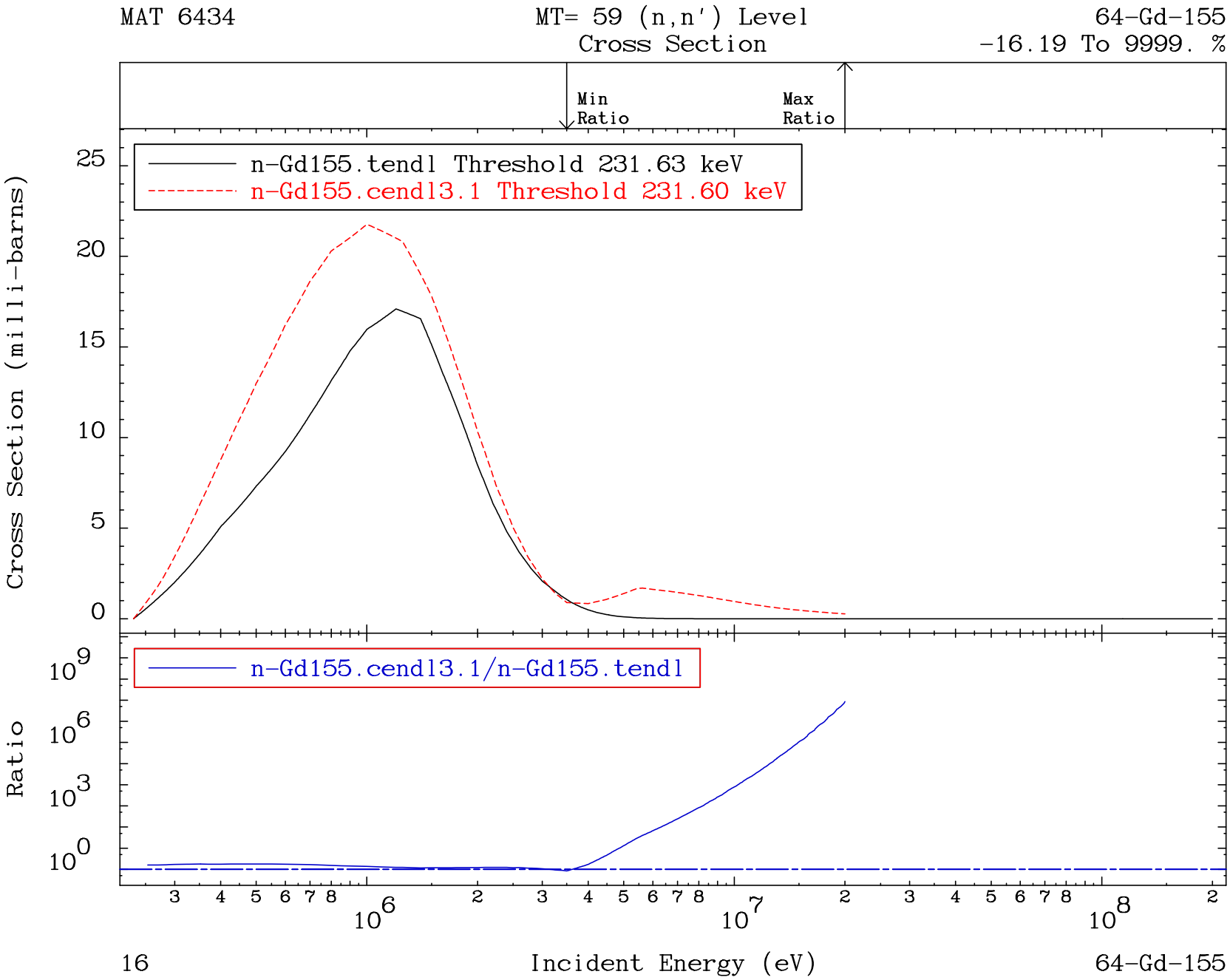

MAT 6434
MT= 54 (n,n') Level
Cross Section
64-Gd-155
4.539 To 9999. %
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 108.28 keV
n-Gd155.cendl3.1 Threshold 108.30 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^12
10^8
10^4
10^0
10^5
10^6
10^7
10^8
Incident Energy (eV)
11
64-Gd-155

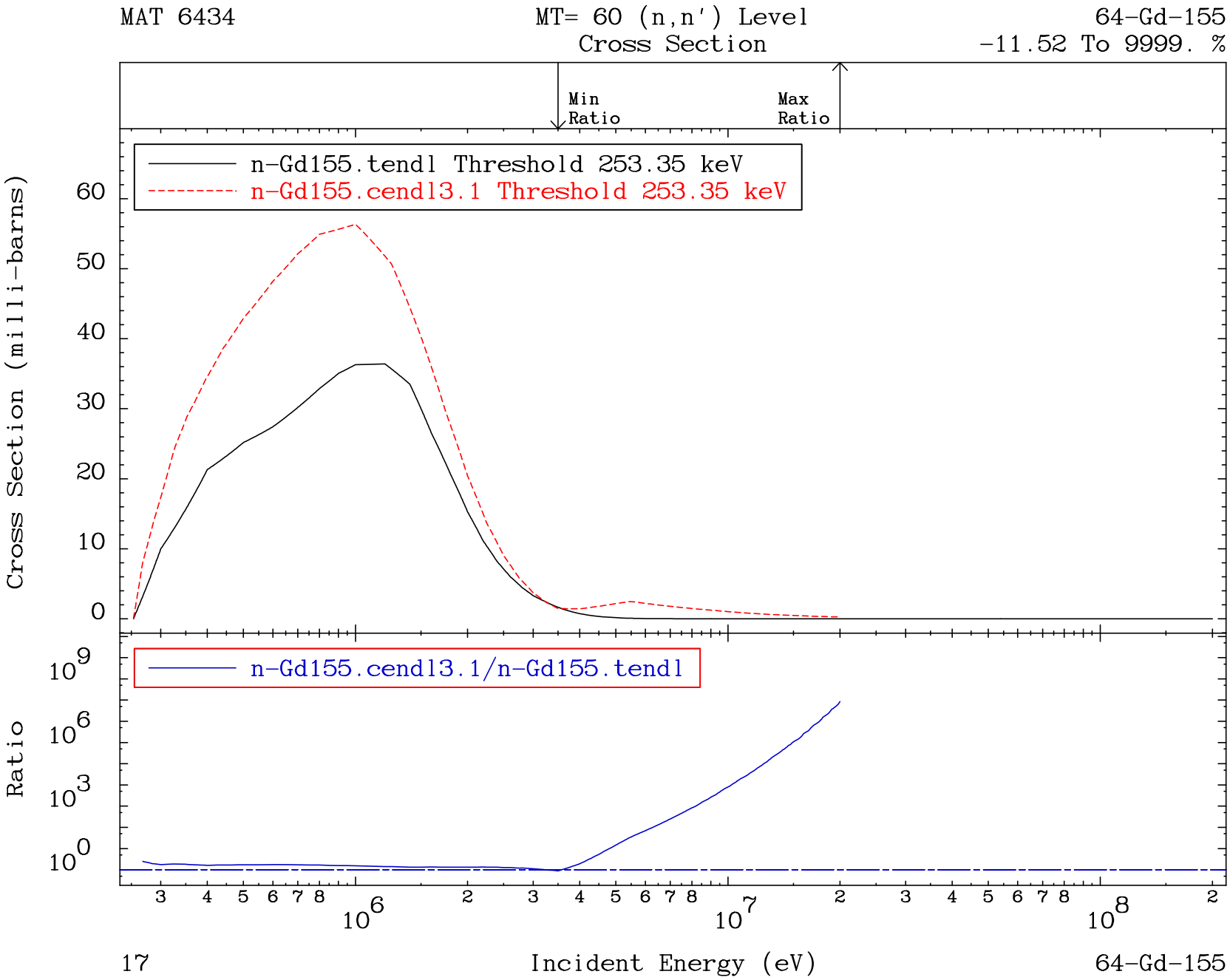

MAT 6434
MT= 55 (n,n') Level
Cross Section
64-Gd-155
45.41 To 9999. %
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 118.77 keV
n-Gd155.cendl3.1 Threshold 118.77 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^12
10^9
10^6
10^3
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
64-Gd-155

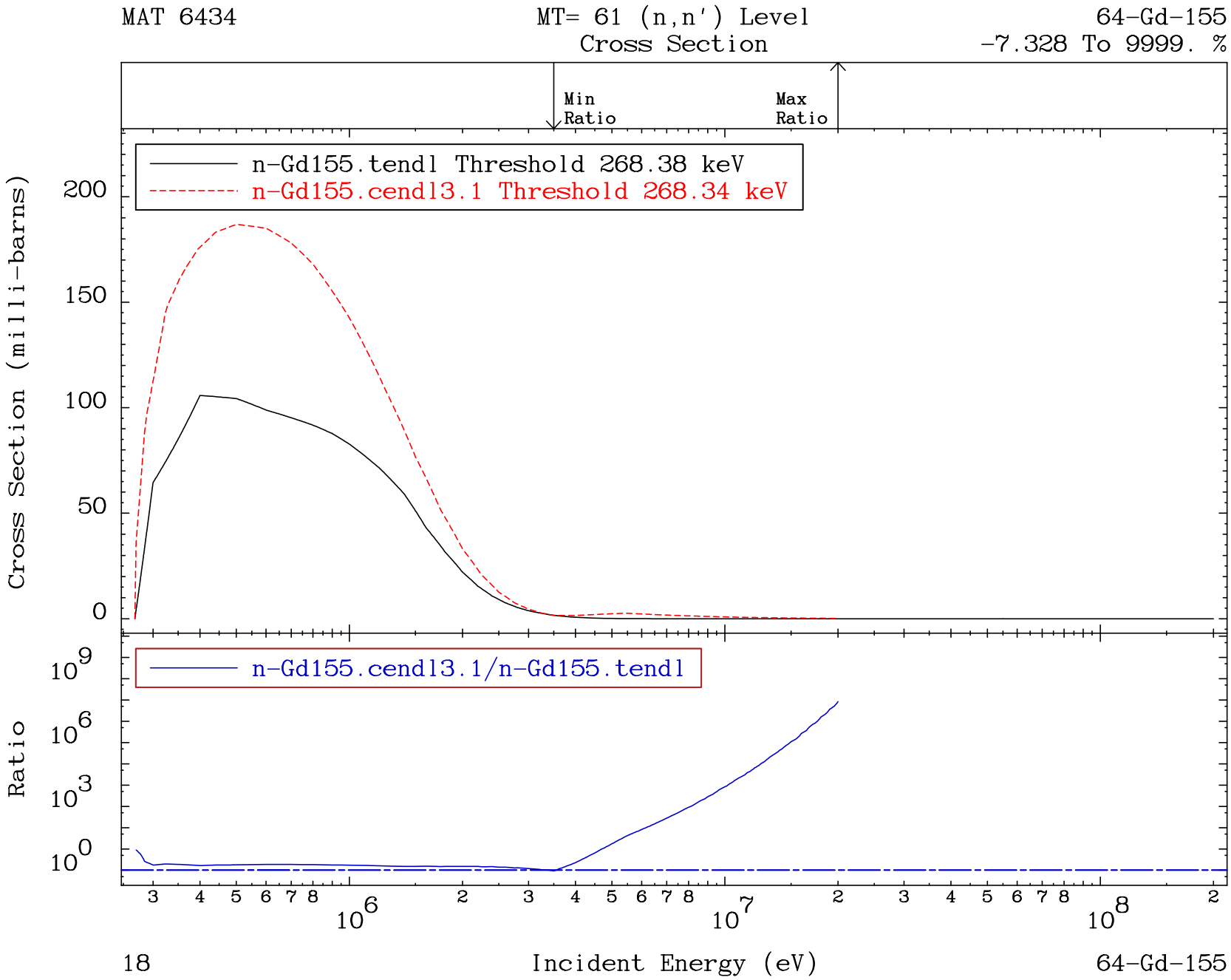

MAT 6434
MT= 56 (n,n') Level
Cross Section
64-Gd-155
-58.78 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 121.84 keV
n-Gd155.cendl3.1 Threshold 122.29 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
64-Gd-155

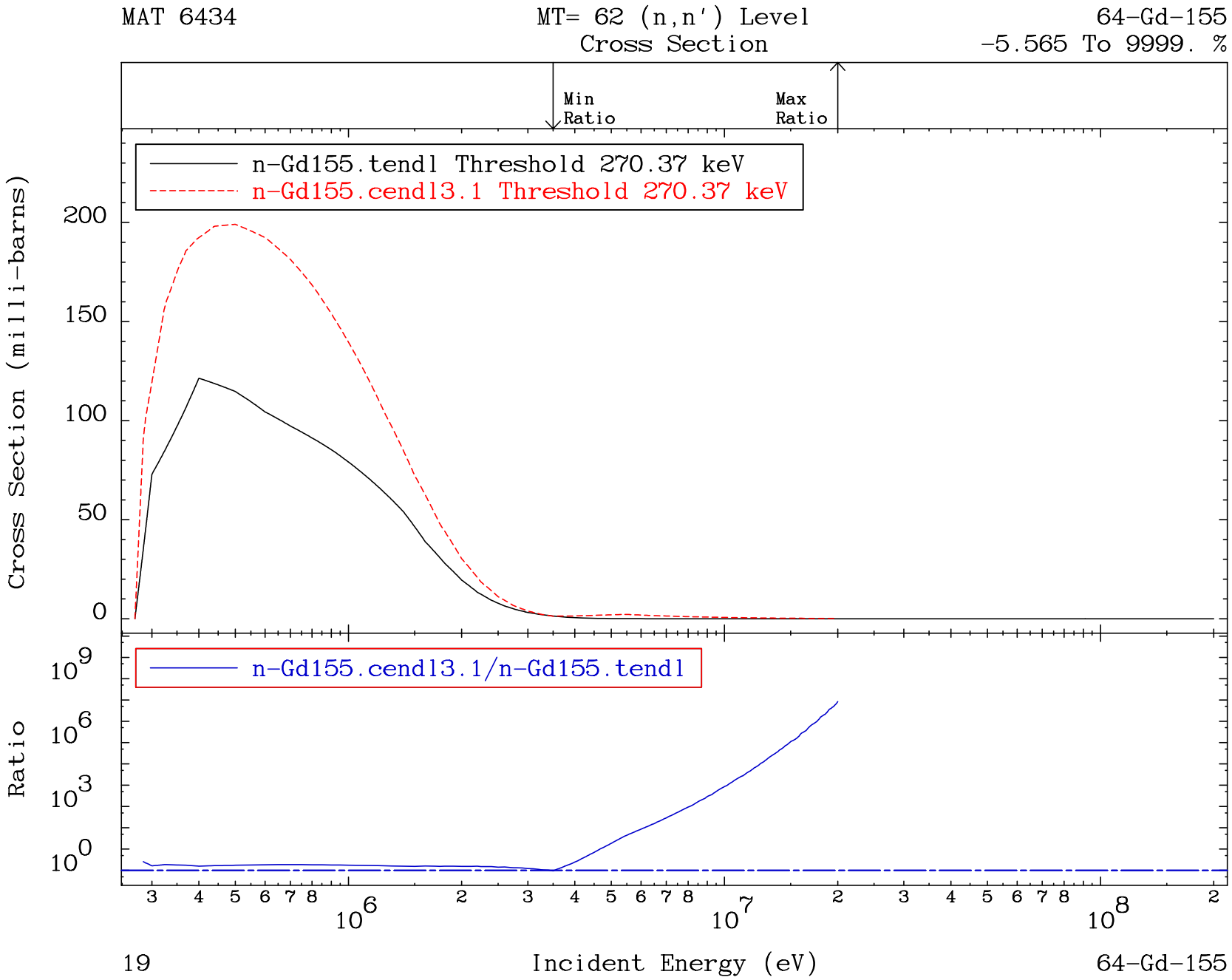

MAT 6434
MT= 57 (n,n') Level
Cross Section
64-Gd-155
-72.12 To 37.15 %
Max
Ratio
Min
Ratio
n-Gd155.tendl Threshold 147.02 keV
n-Gd155.cendl3.1 Threshold 147.05 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
1.6
1.2
0.8
0.4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
64-Gd-155

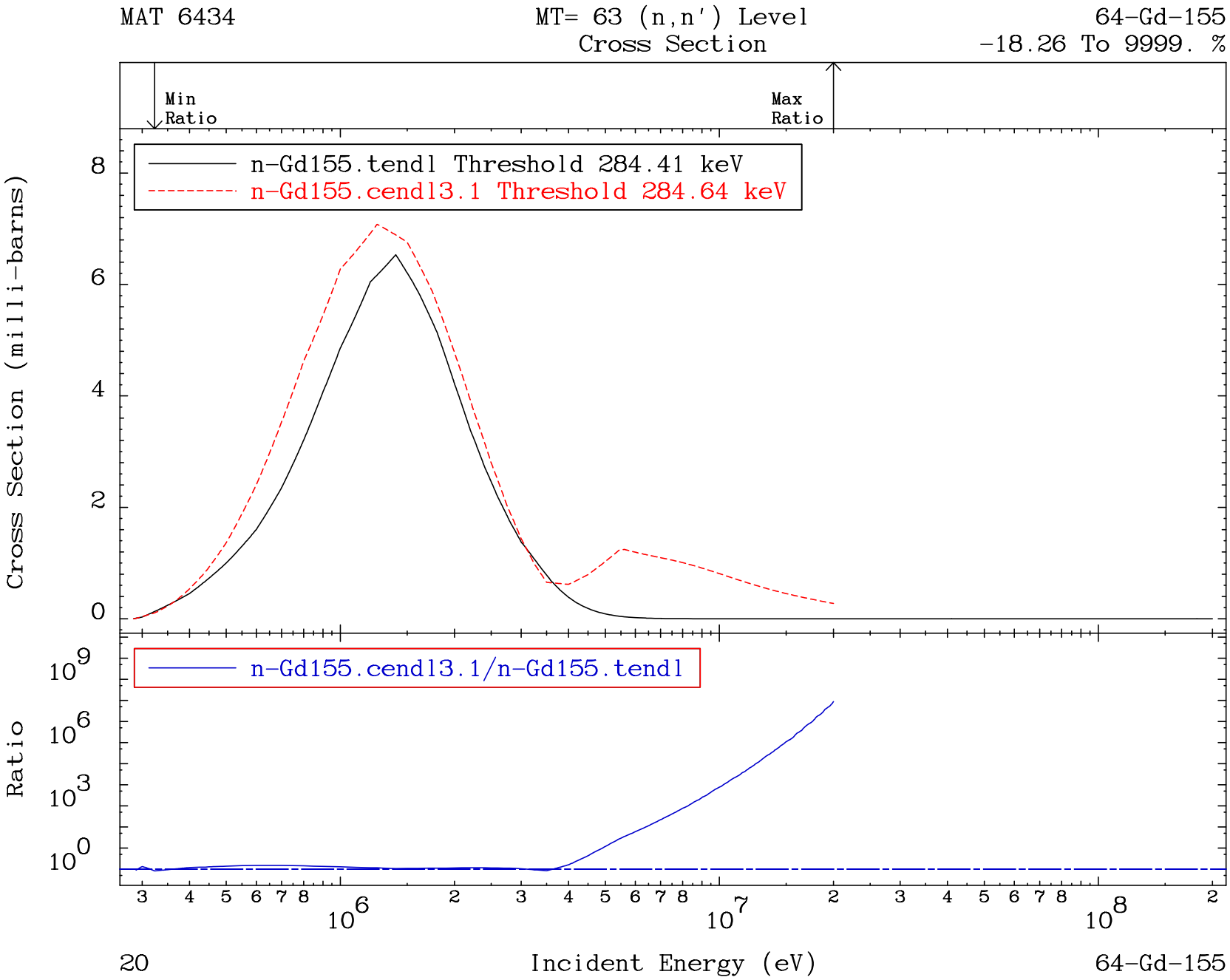

MAT 6434
MT= 58 (n,n') Level
Cross Section
64-Gd-155
-72.57 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 215.75 keV
n-Gd155.cendl3.1 Threshold 215.80 keV
Cross Section (milli-barns)
0
2
4
6
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
64-Gd-155

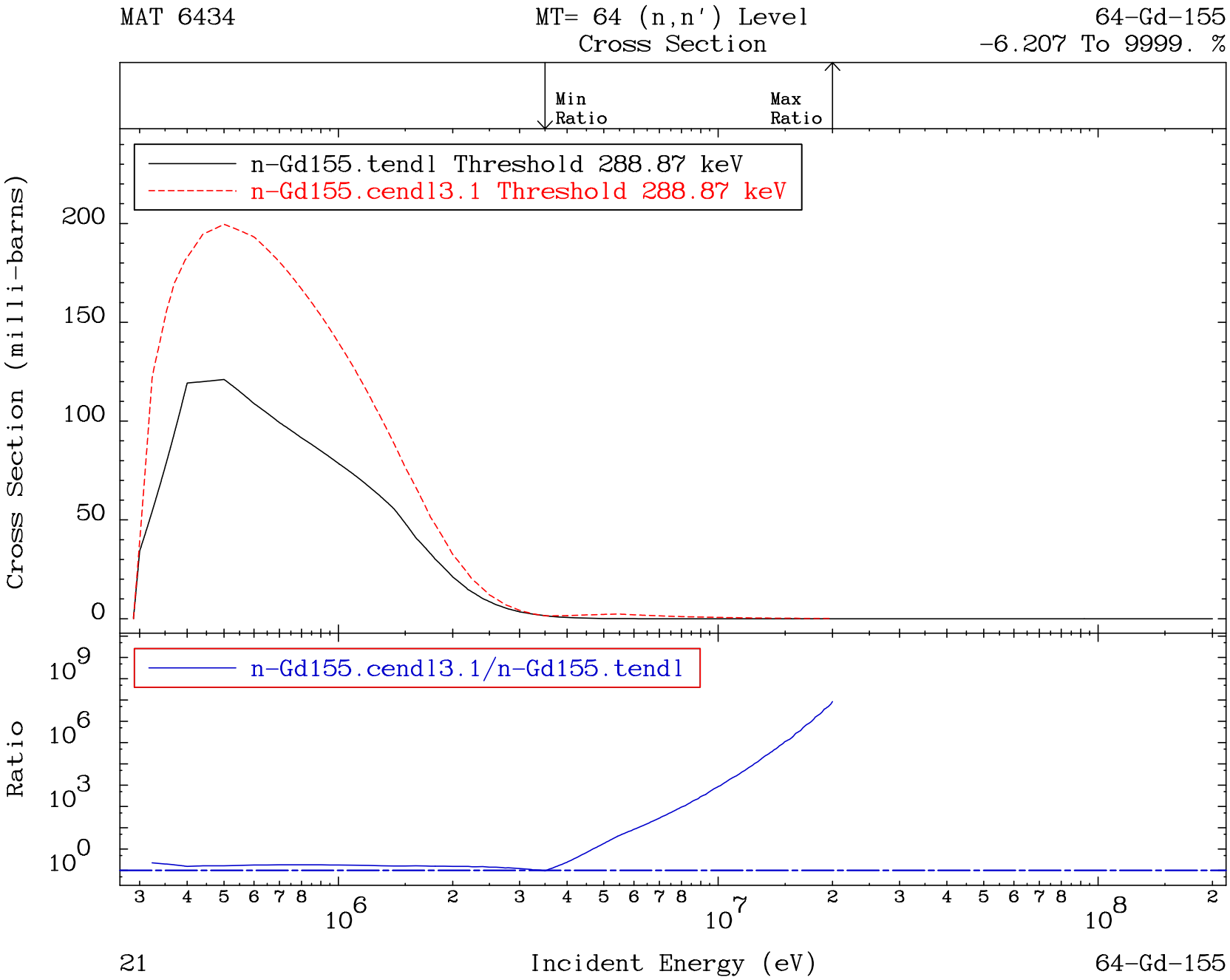

MAT 6434
MT= 59 (n,n') Level
Cross Section
64-Gd-155
-16.19 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 231.63 keV
n-Gd155.cendl3.1 Threshold 231.60 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
64-Gd-155

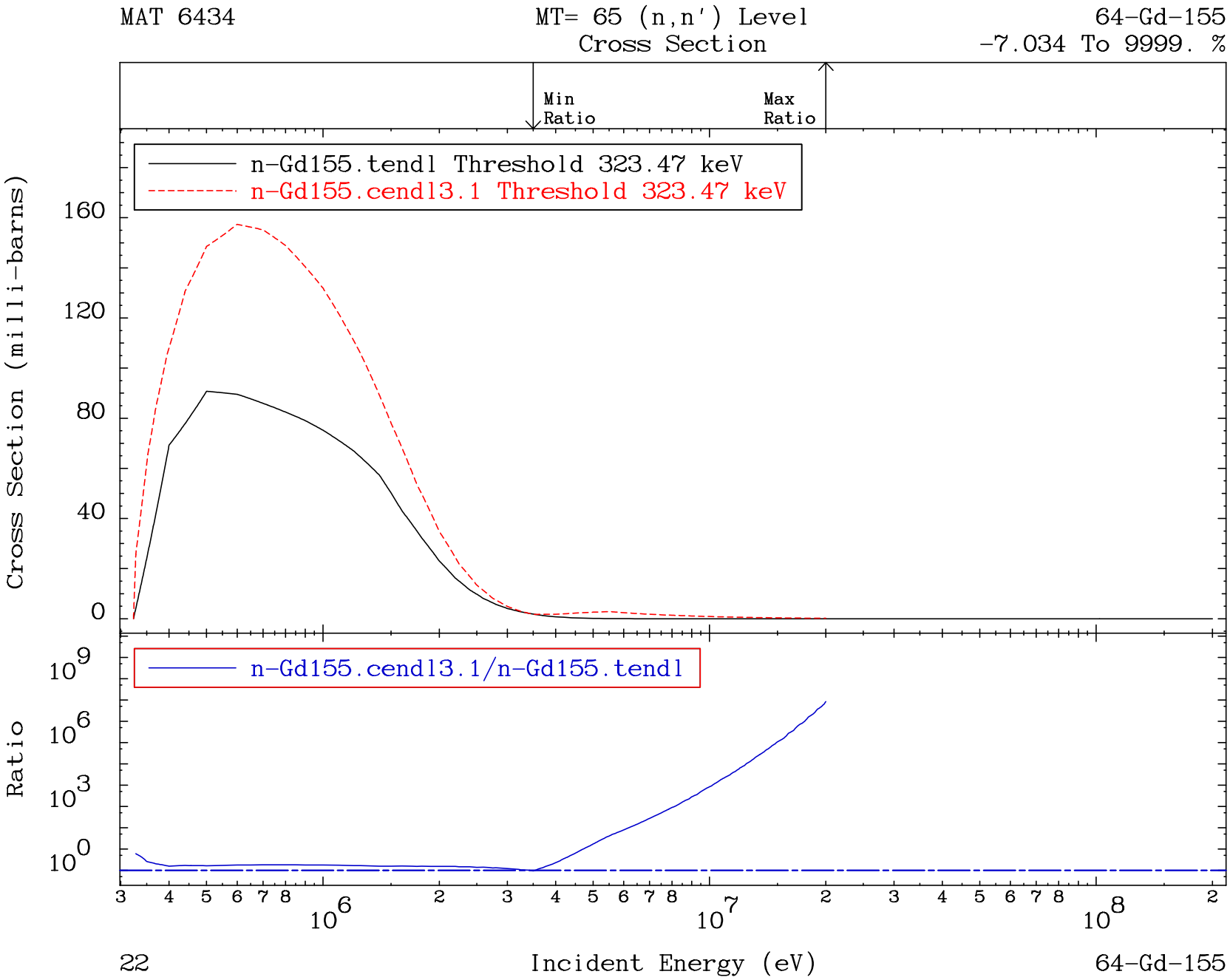

MAT 6434
MT= 60 (n,n') Level
Cross Section
64-Gd-155
-11.52 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 253.35 keV
n-Gd155.cendl3.1 Threshold 253.35 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
64-Gd-155

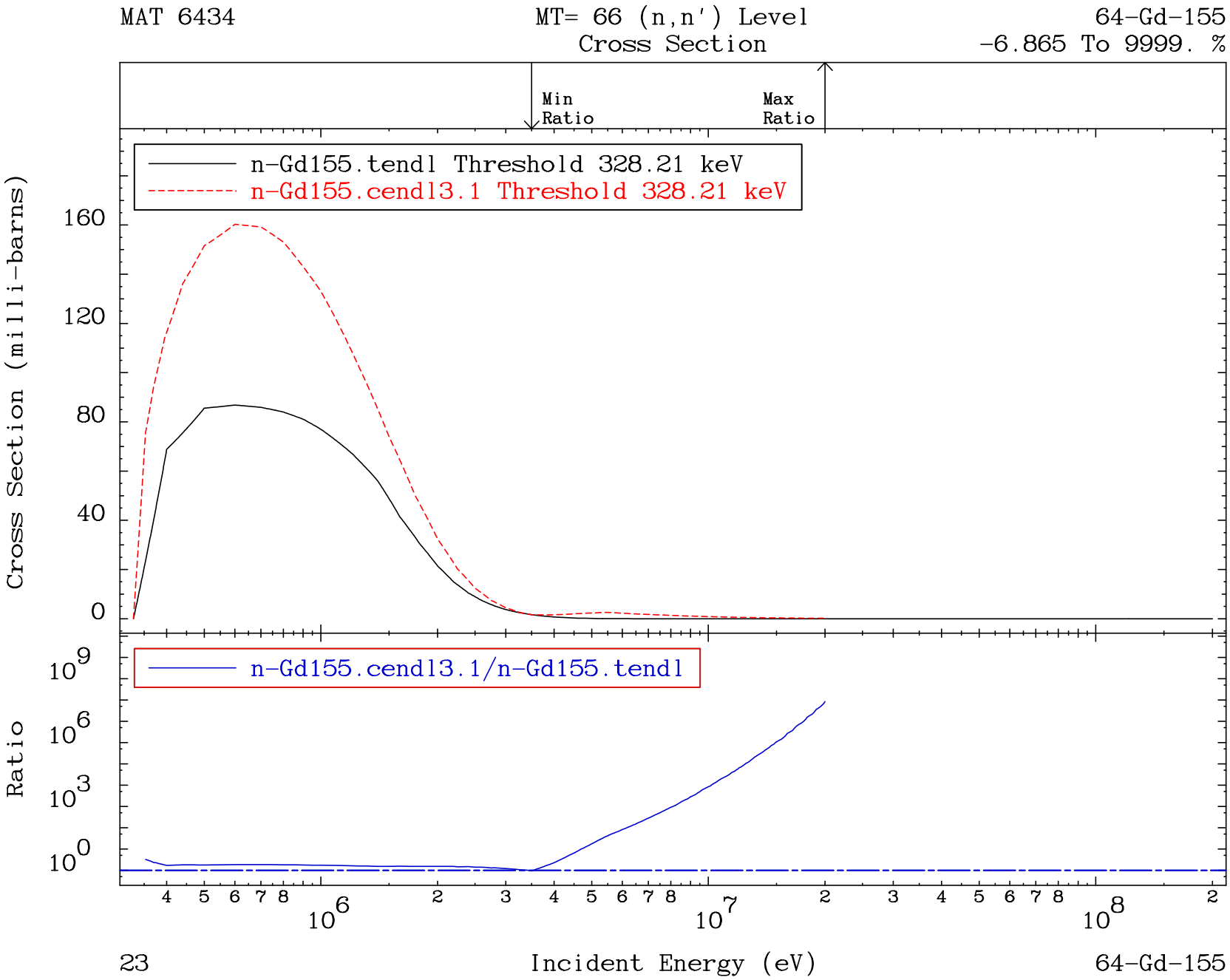

MAT 6434
MT= 61 (n,n') Level
Cross Section
64-Gd-155
-7.328 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 268.38 keV
n-Gd155.cendl3.1 Threshold 268.34 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
64-Gd-155

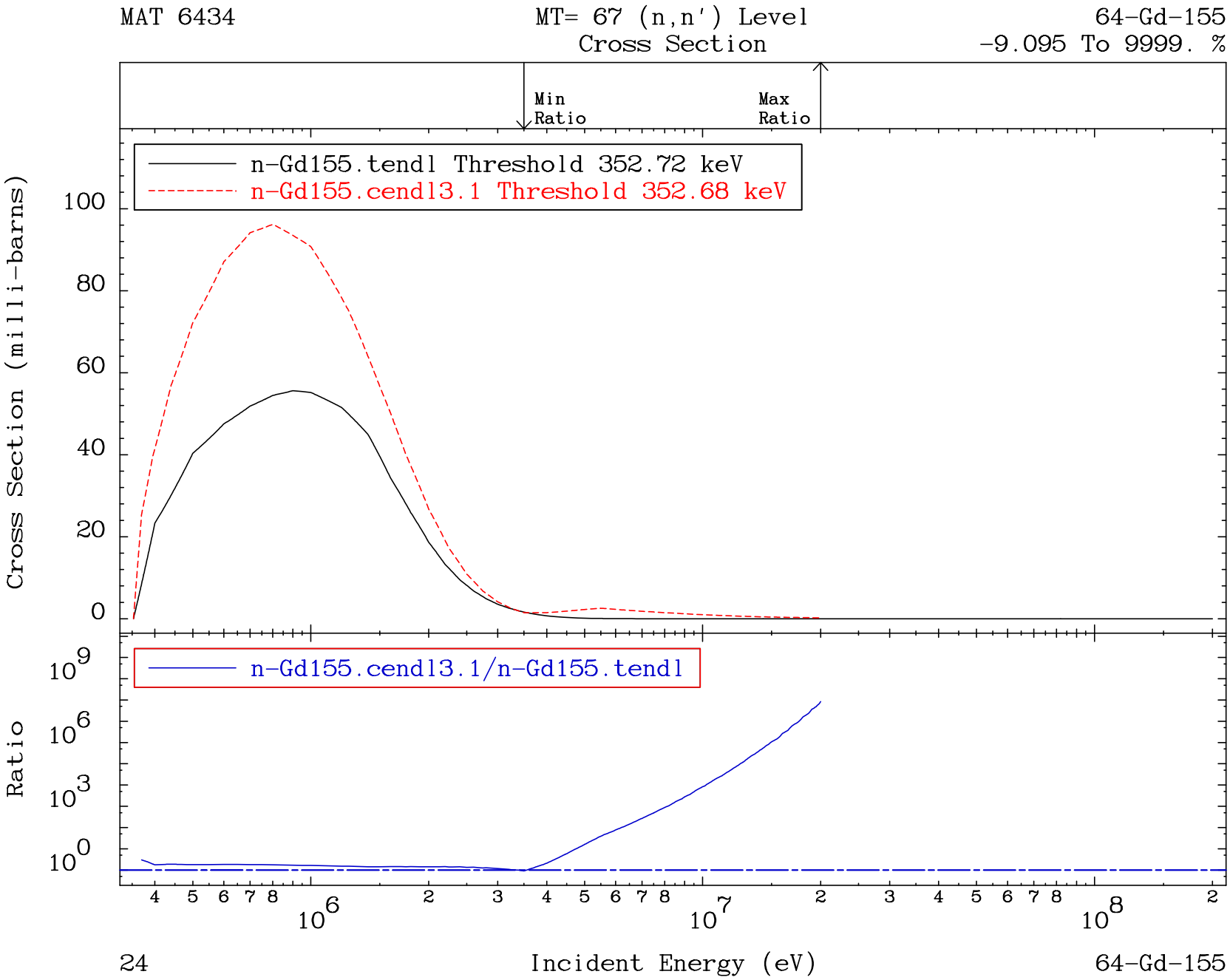

MAT 6434
MT= 62 (n,n') Level
Cross Section
64-Gd-155
-5.565 To 9999. %
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 270.37 keV
n-Gd155.cendl3.1 Threshold 270.37 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
64-Gd-155

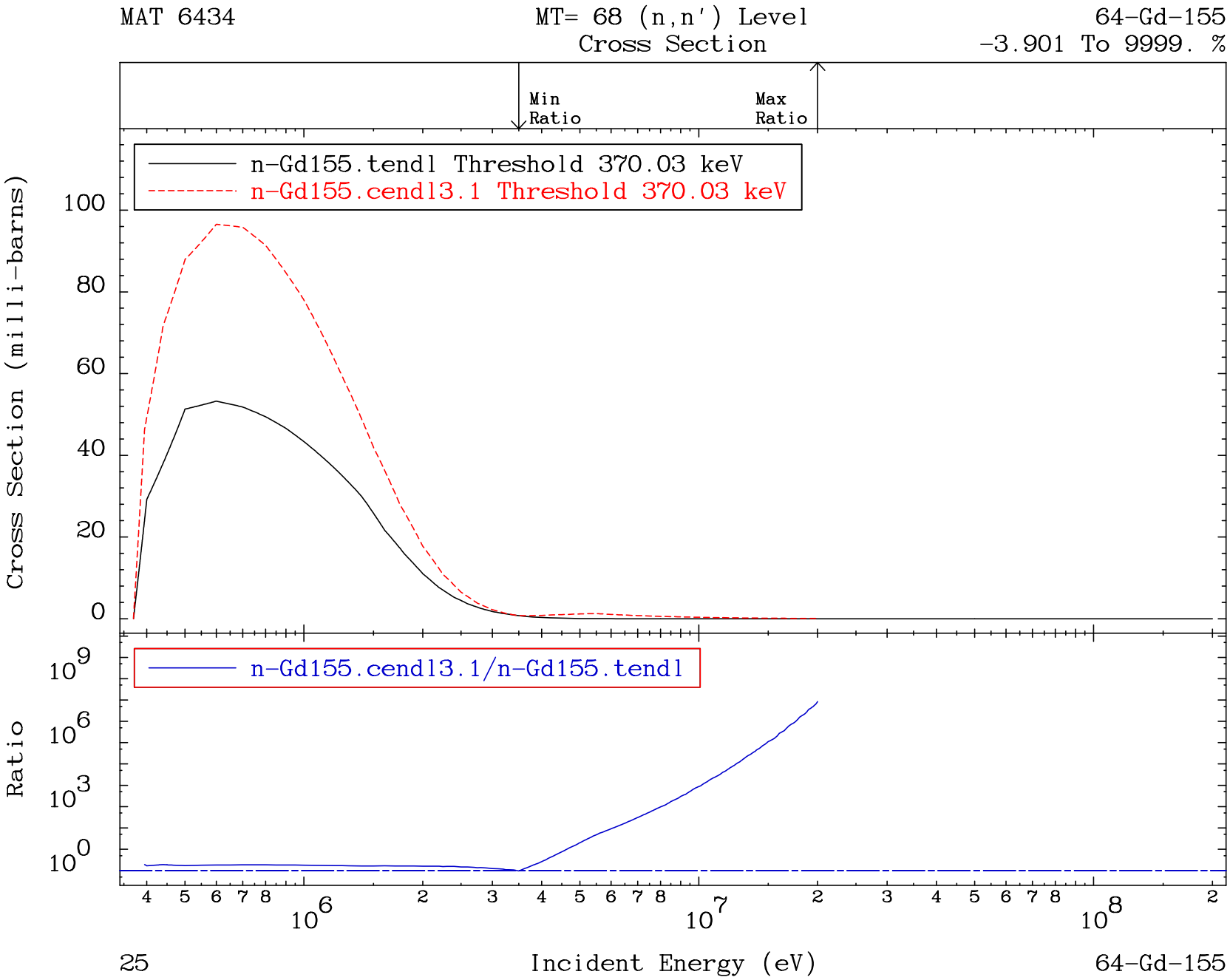

MAT 6434
MT= 63 (n,n') Level
Cross Section
64-Gd-155
-18.26 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 284.41 keV
n-Gd155.cendl3.1 Threshold 284.64 keV
Cross Section (milli-barns)
0
2
4
6
8
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
64-Gd-155

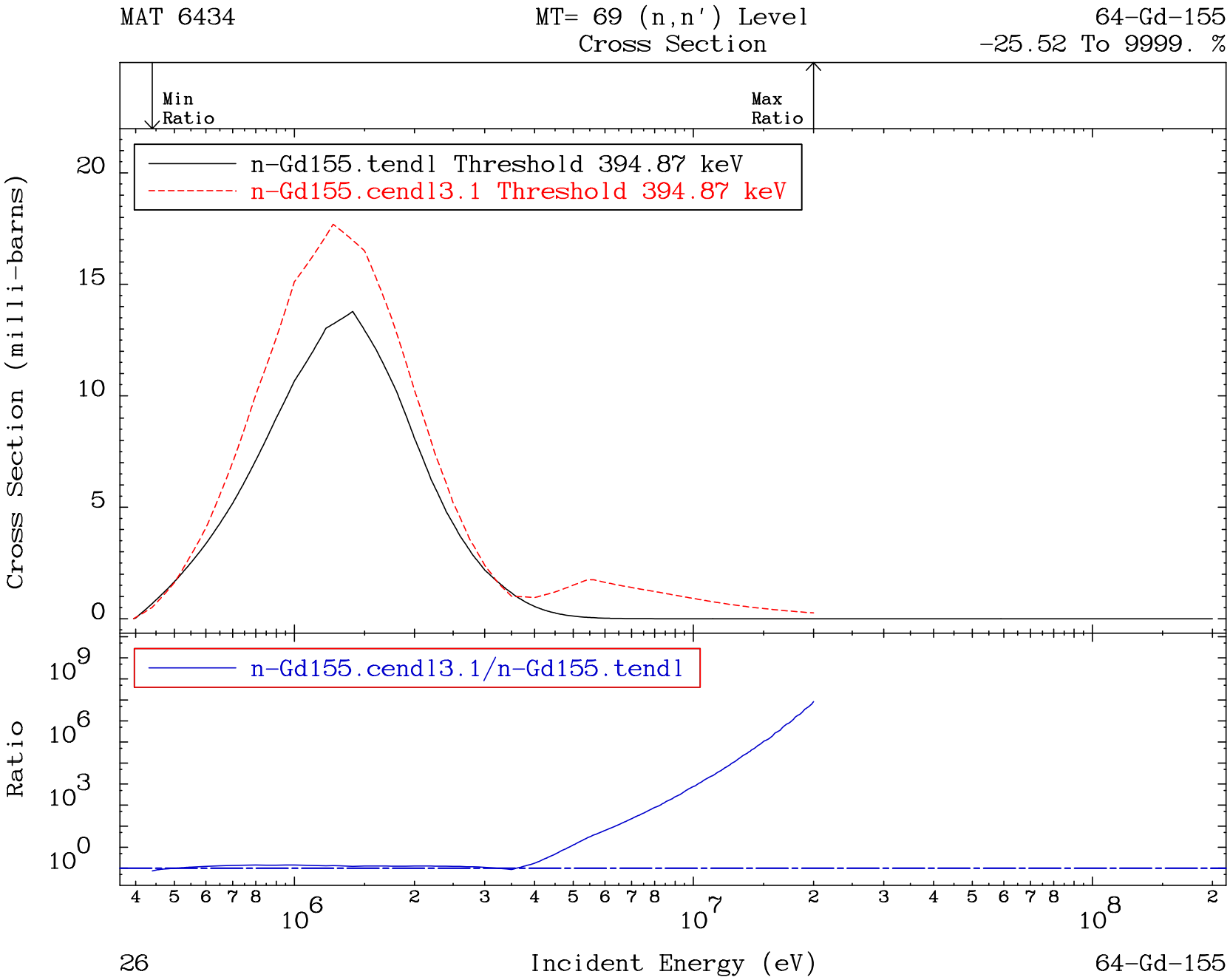

MAT 6434
MT= 64 (n,n') Level
Cross Section
64-Gd-155
-6.207 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 288.87 keV
n-Gd155.cendl3.1 Threshold 288.87 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
64-Gd-155

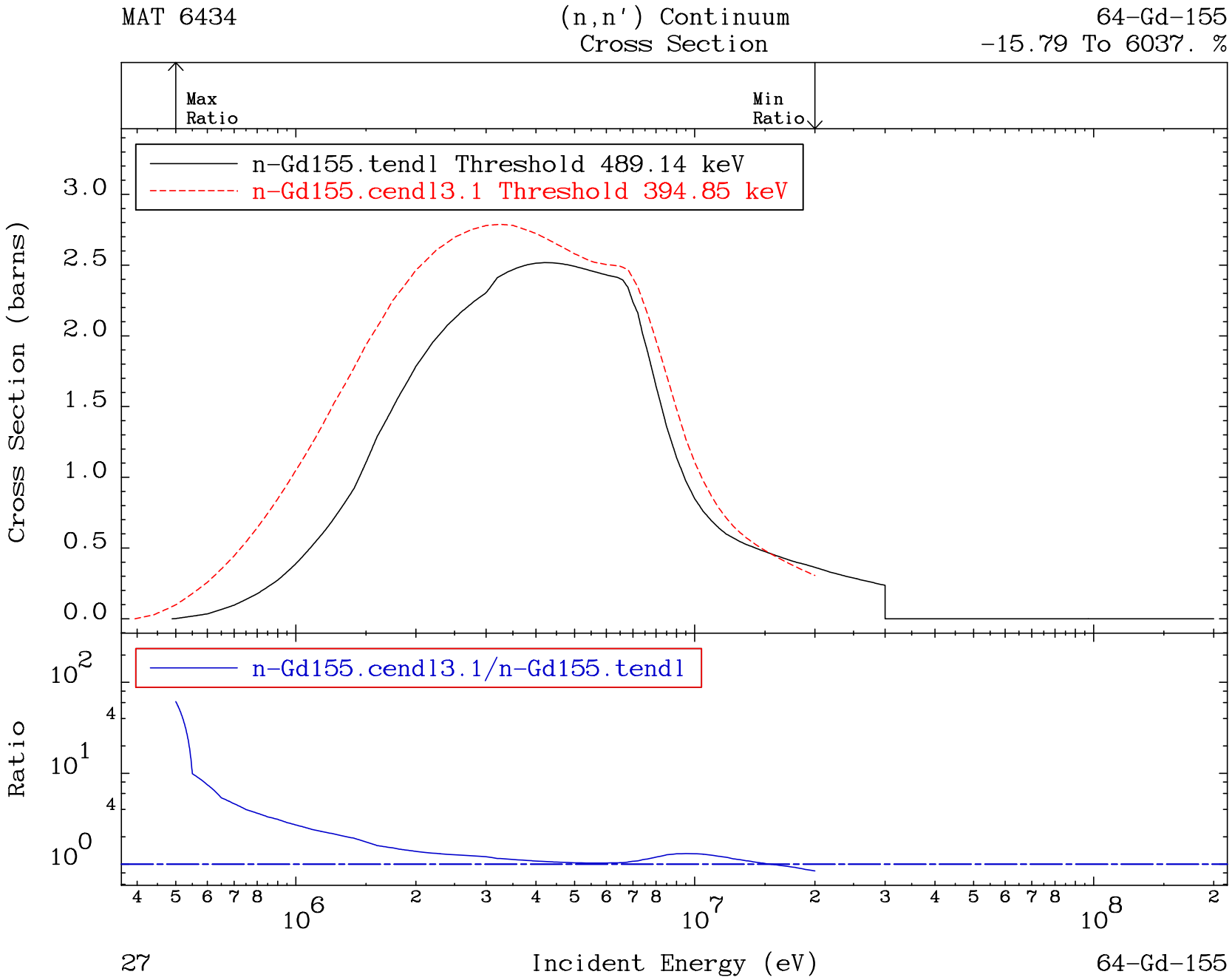

MAT 6434
MT= 65 (n,n') Level
Cross Section
64-Gd-155
-7.034 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 323.47 keV
n-Gd155.cendl3.1 Threshold 323.47 keV
Cross Section (milli-barns)
160
120
80
40
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
64-Gd-155

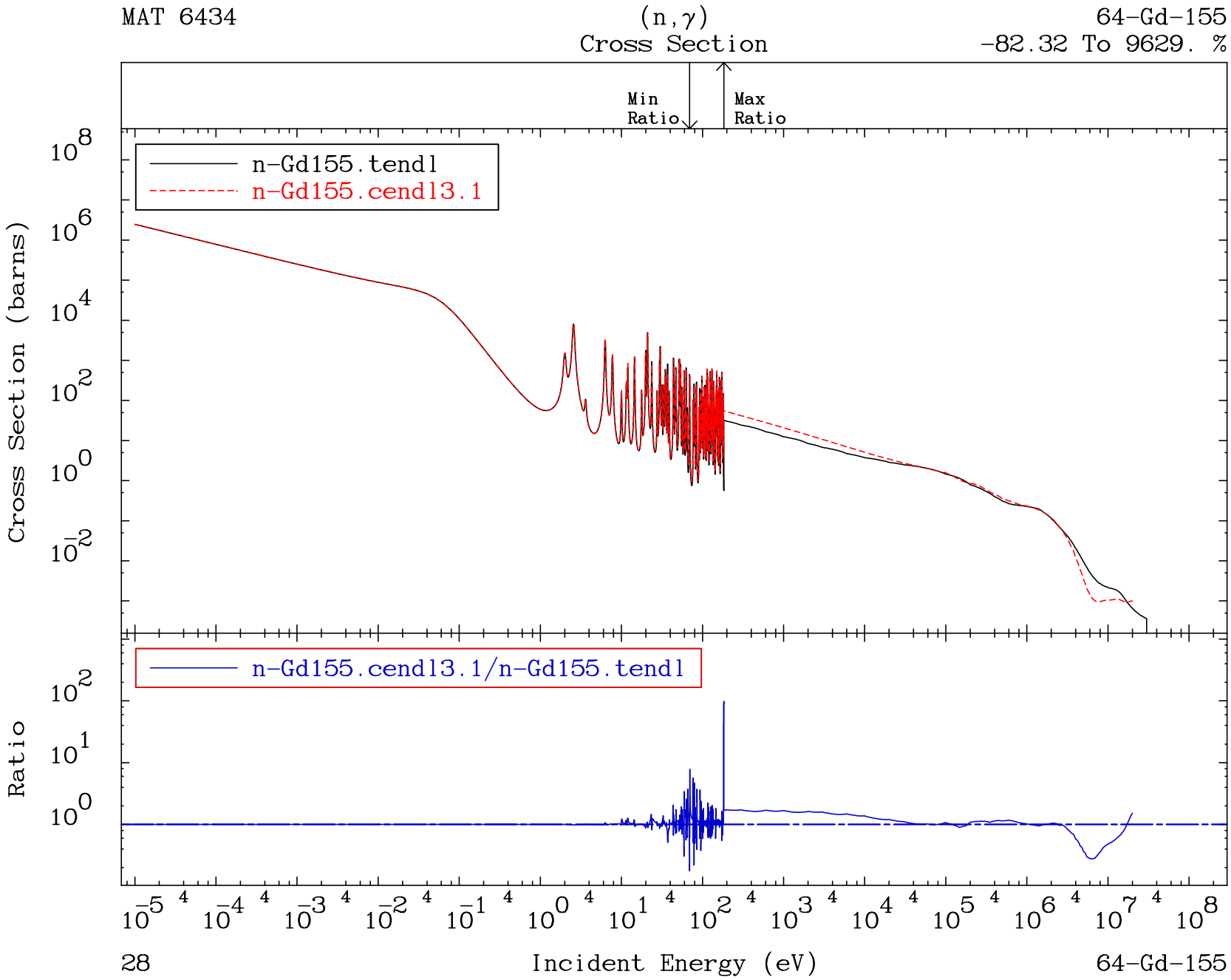

MAT 6434
MT= 66 (n,n') Level
Cross Section
64-Gd-155
-6.865 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 328.21 keV
n-Gd155.cendl3.1 Threshold 328.21 keV
Cross Section (milli-barns)
160
120
80
40
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
64-Gd-155

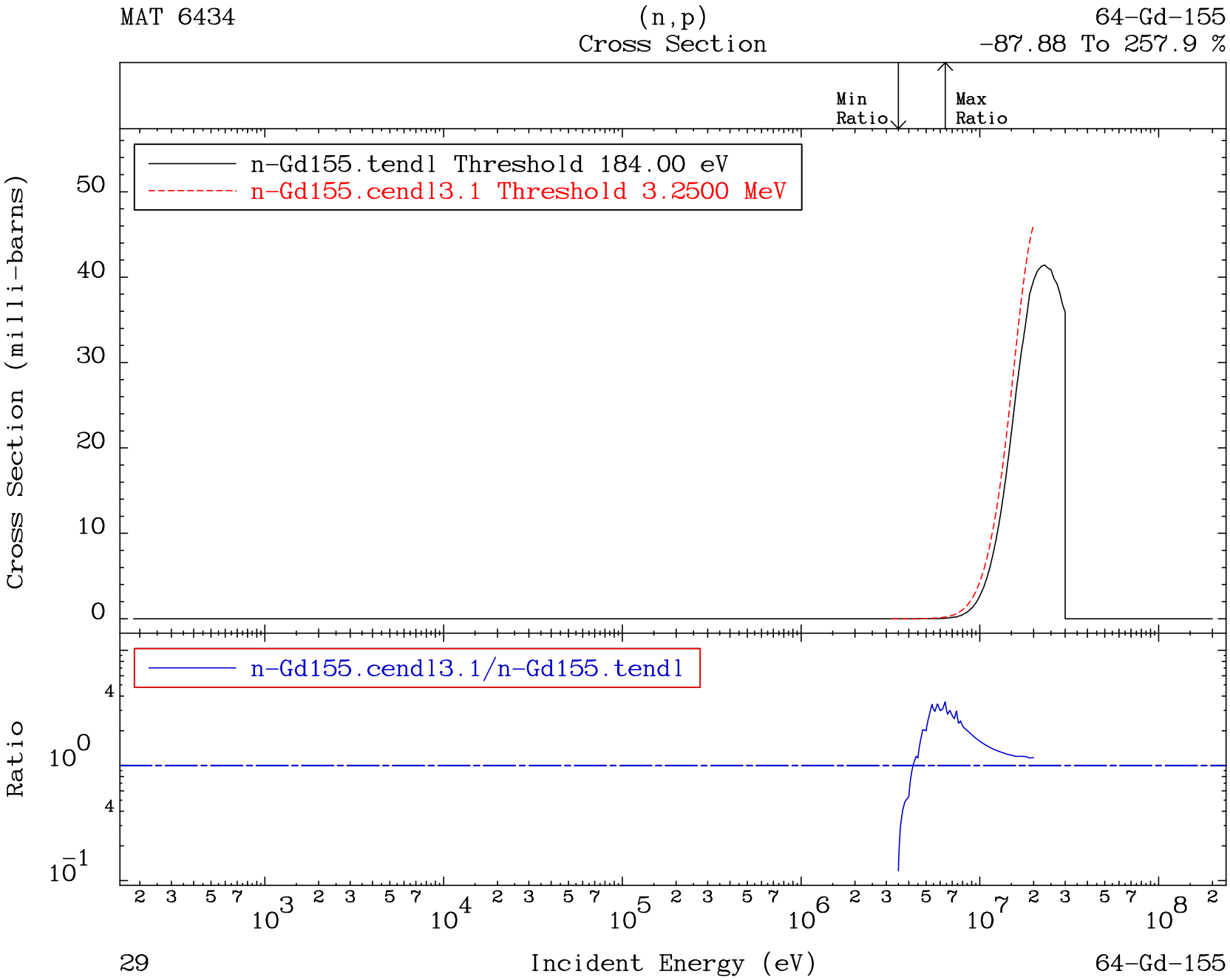

MAT 6434
MT= 67 (n,n') Level
Cross Section
64-Gd-155
-9.095 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 352.72 keV
n-Gd155.cendl3.1 Threshold 352.68 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
64-Gd-155

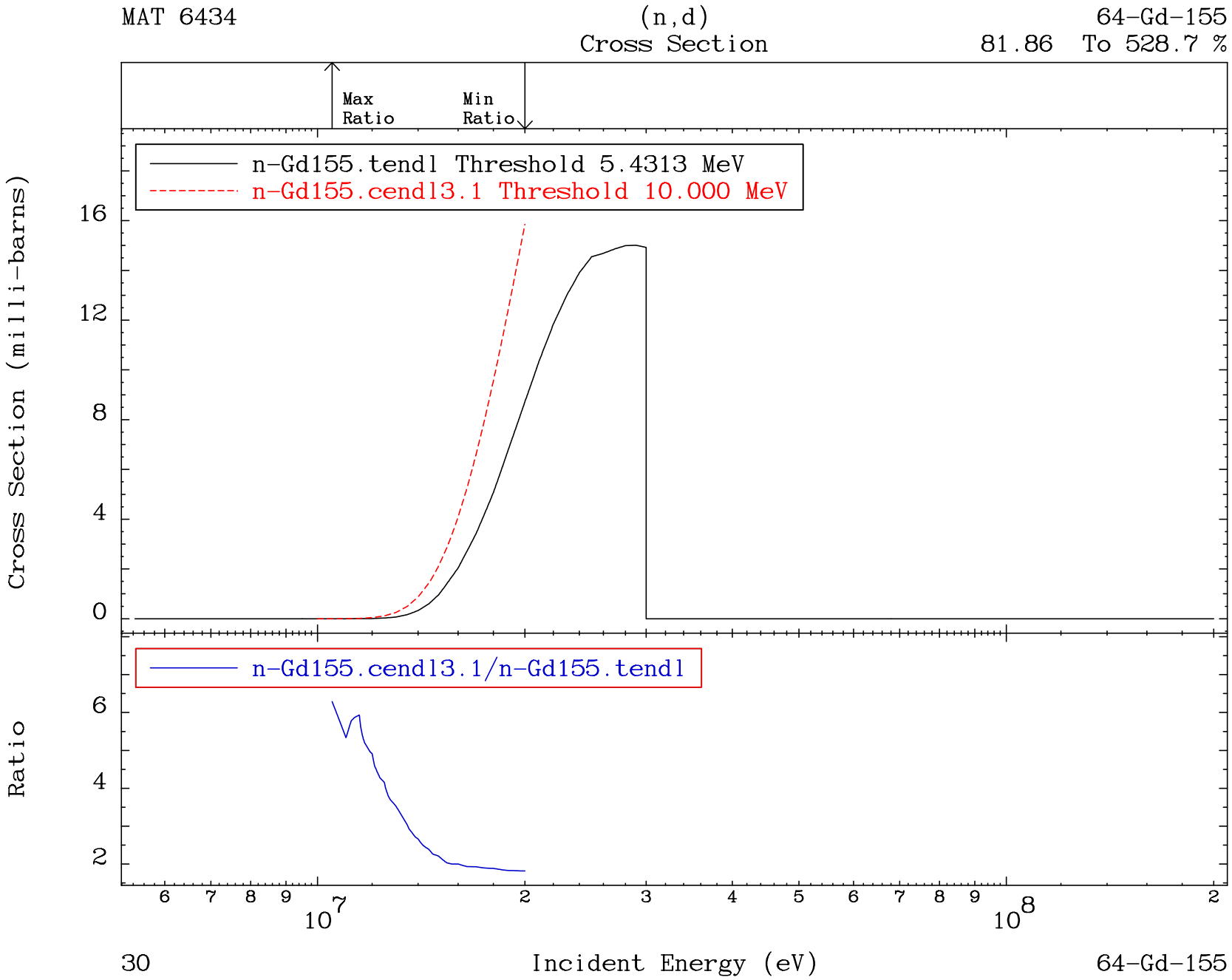

MAT 6434
MT= 68 (n,n') Level
Cross Section
64-Gd-155
-3.901 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 370.03 keV
n-Gd155.cendl3.1 Threshold 370.03 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
64-Gd-155

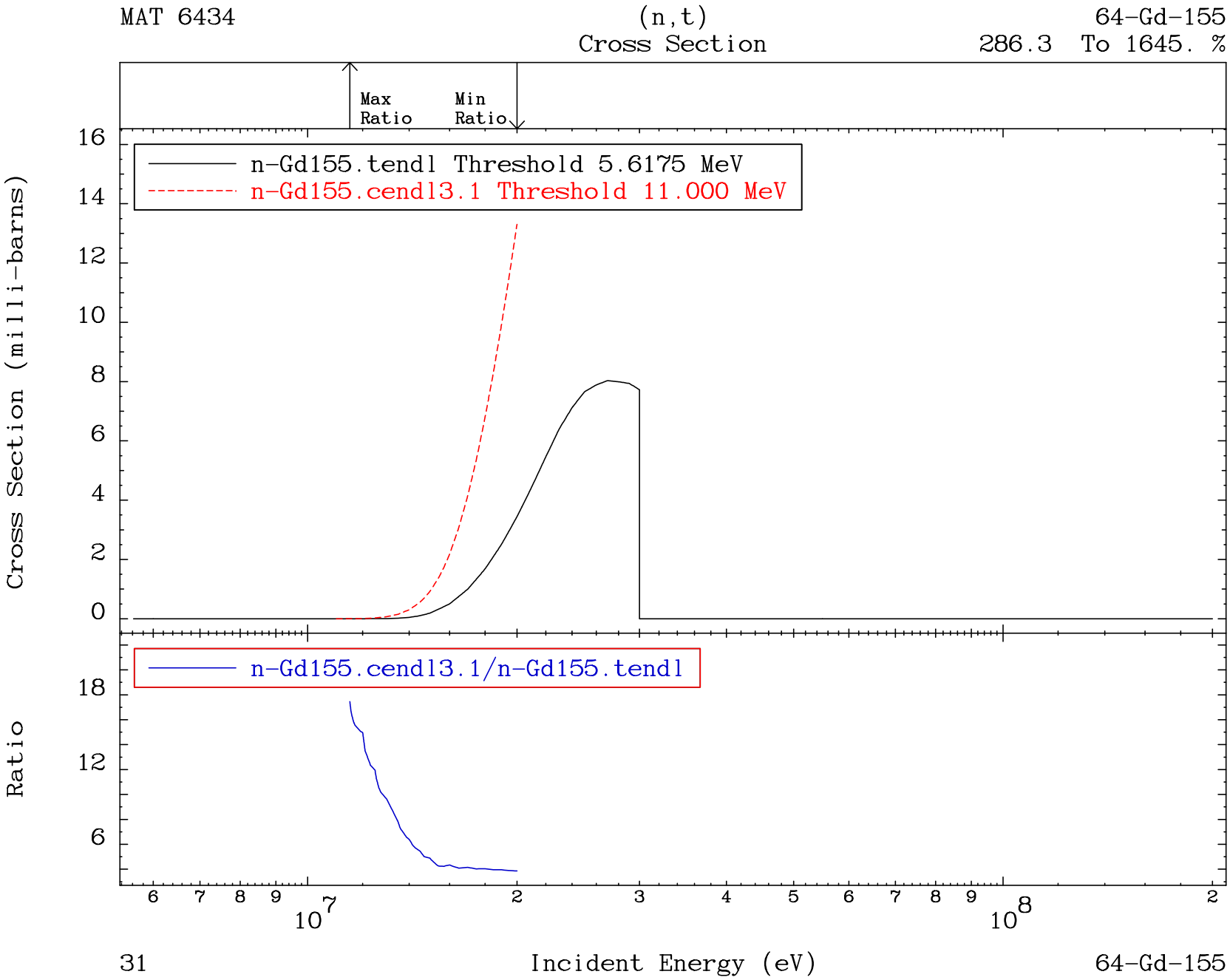

MAT 6434
MT= 69 (n,n') Level
Cross Section
64-Gd-155
-25.52 To 9999. %
Min
Ratio
Max
Ratio
n-Gd155.tendl Threshold 394.87 keV
n-Gd155.cendl3.1 Threshold 394.87 keV
Cross Section (milli-barns)
20
15
10
5
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^9
10^6
10^3
10^0
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
64-Gd-155

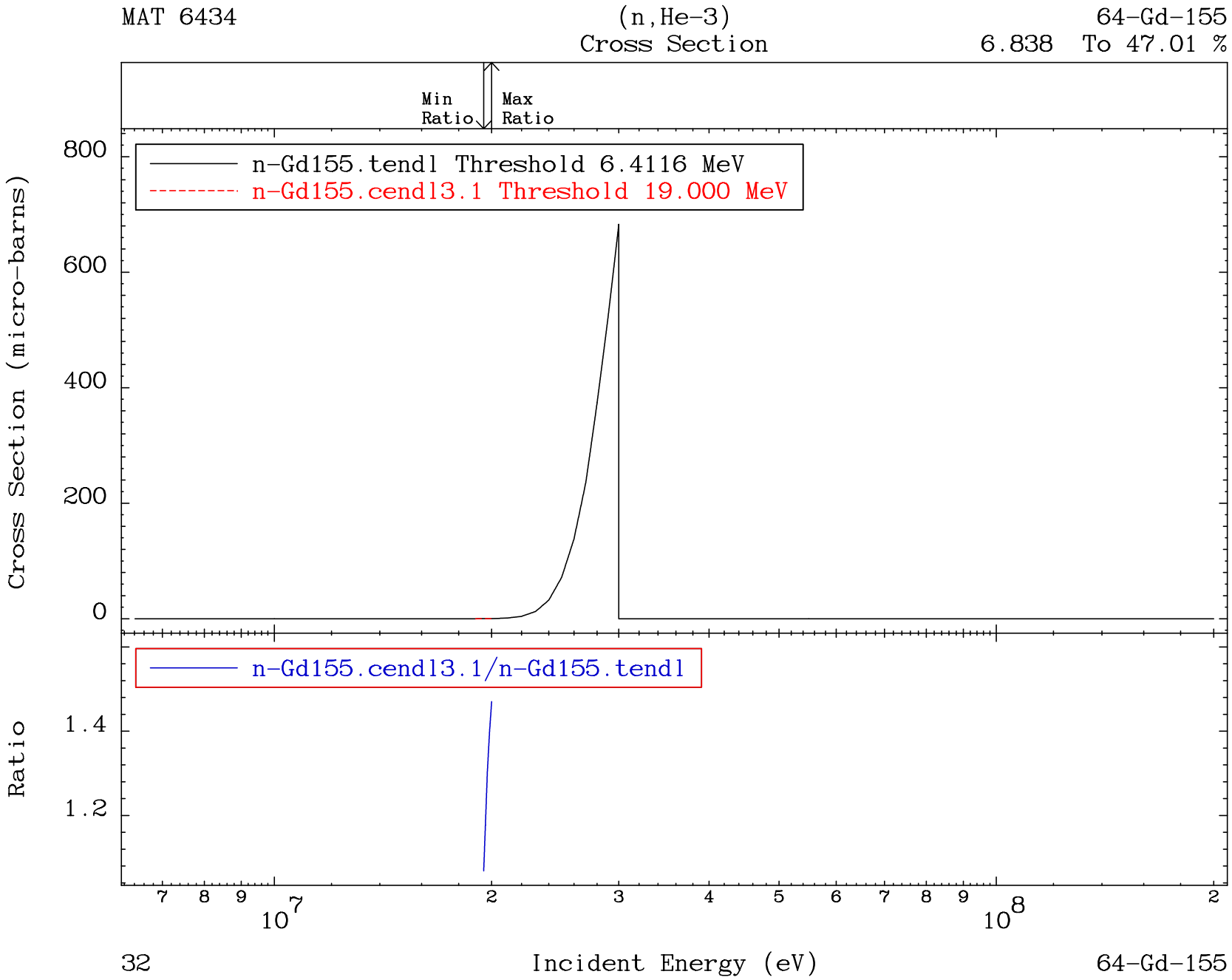

MAT 6434
(n,n') Continuum
Cross Section
64-Gd-155
-15.79 To 6037. %
Max Ratio
Min Ratio
n-Gd155.tendl Threshold 489.14 keV
n-Gd155.cendl3.1 Threshold 394.85 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^2
10^1
10^0
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
64-Gd-155

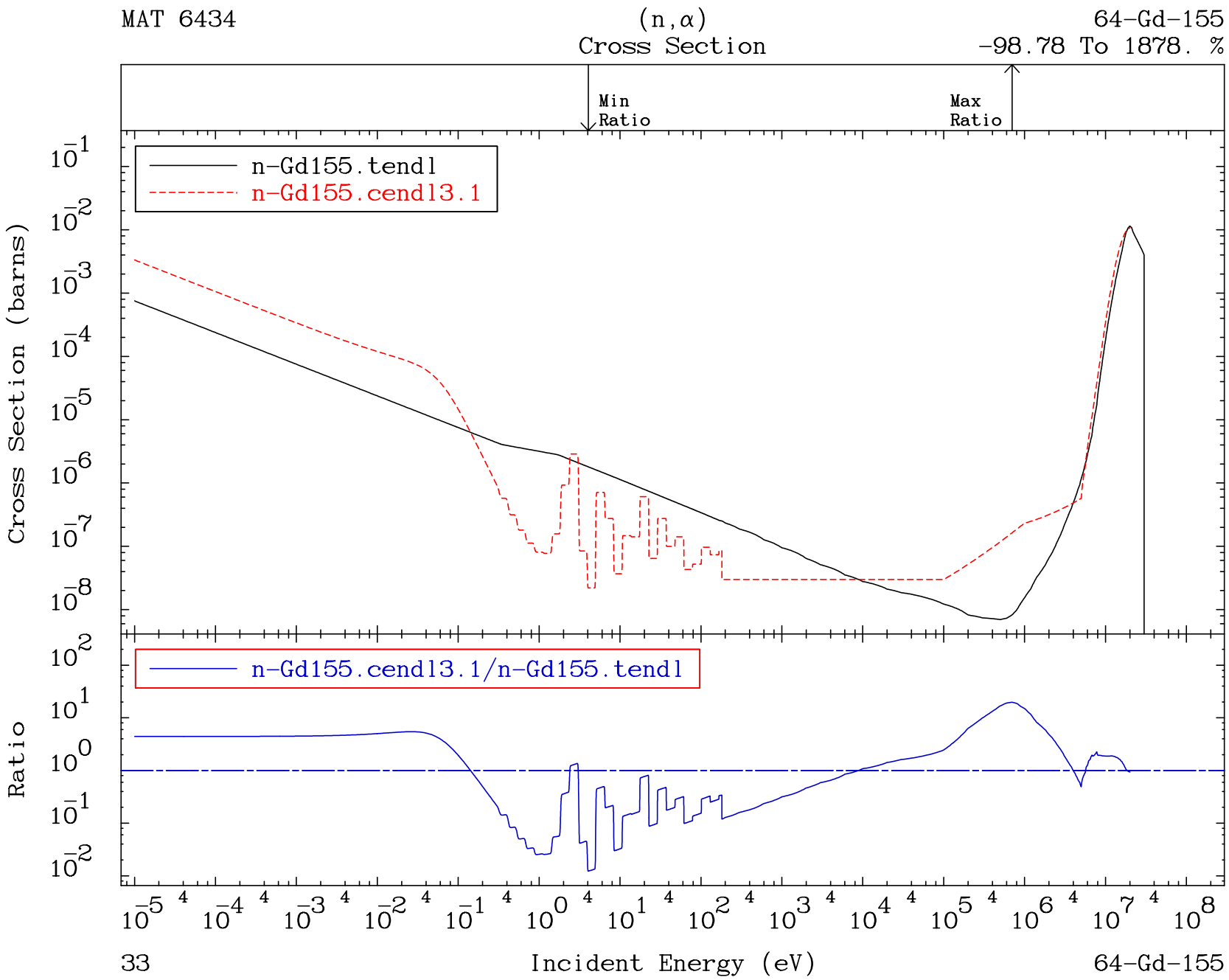

MAT 6434
(n,γ)
Cross Section
64-Gd-155
-82.32 To 9629. %
Min Ratio
Max Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
28
64-Gd-155

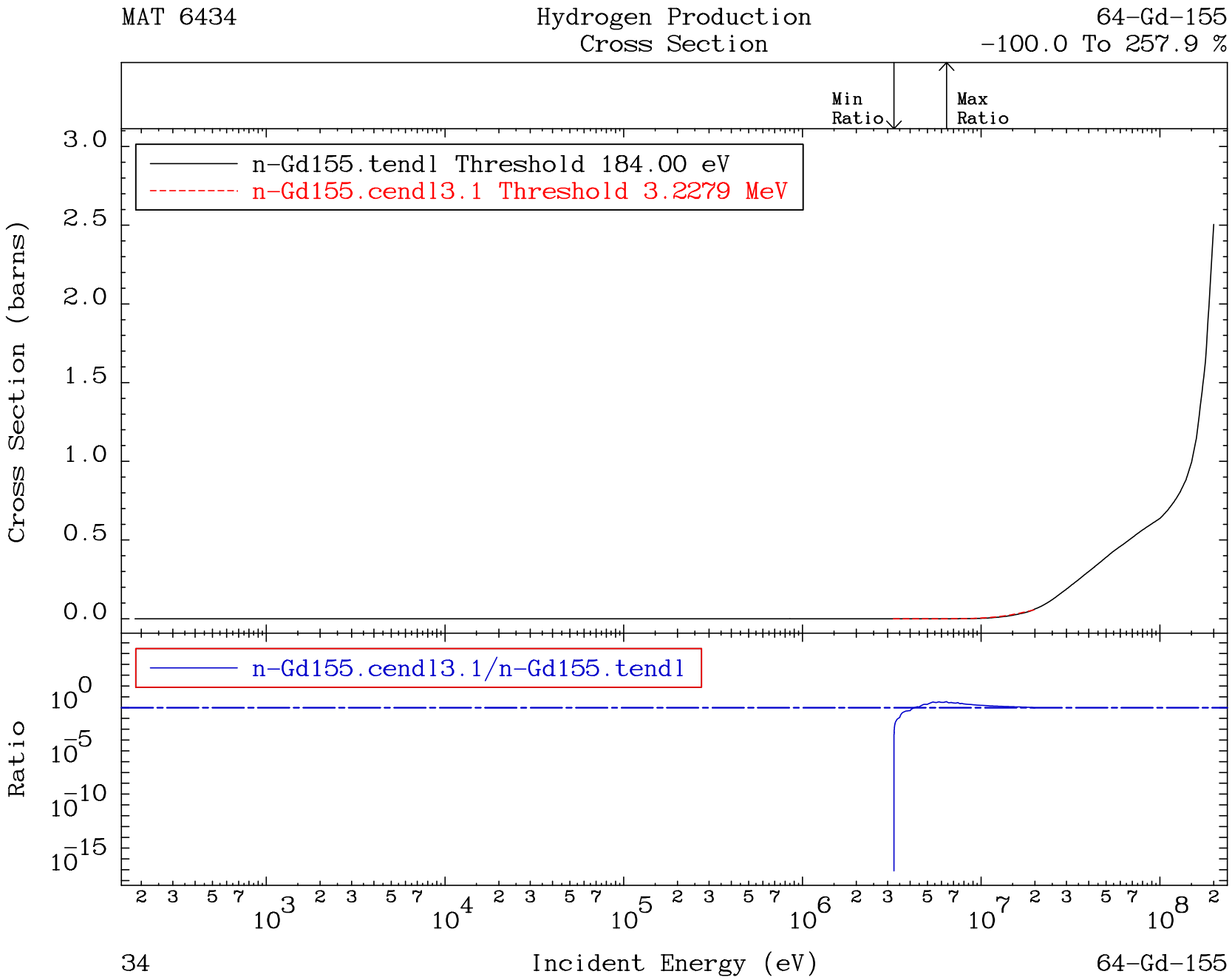

MAT 6434
(n,p)
Cross Section
64-Gd-155
-87.88 To 257.9 %
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 184.00 eV
n-Gd155.cendl3.1 Threshold 3.2500 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
4
$10^0$
4
$10^{-1}$
2 3 5 7 $10^3$ 2 3 5 7 $10^4$ 2 3 5 7 $10^5$ 2 3 5 7 $10^6$ 2 3 5 7 $10^7$ 2 3 5 7 $10^8$ 2
29
Incident Energy (eV)
64-Gd-155

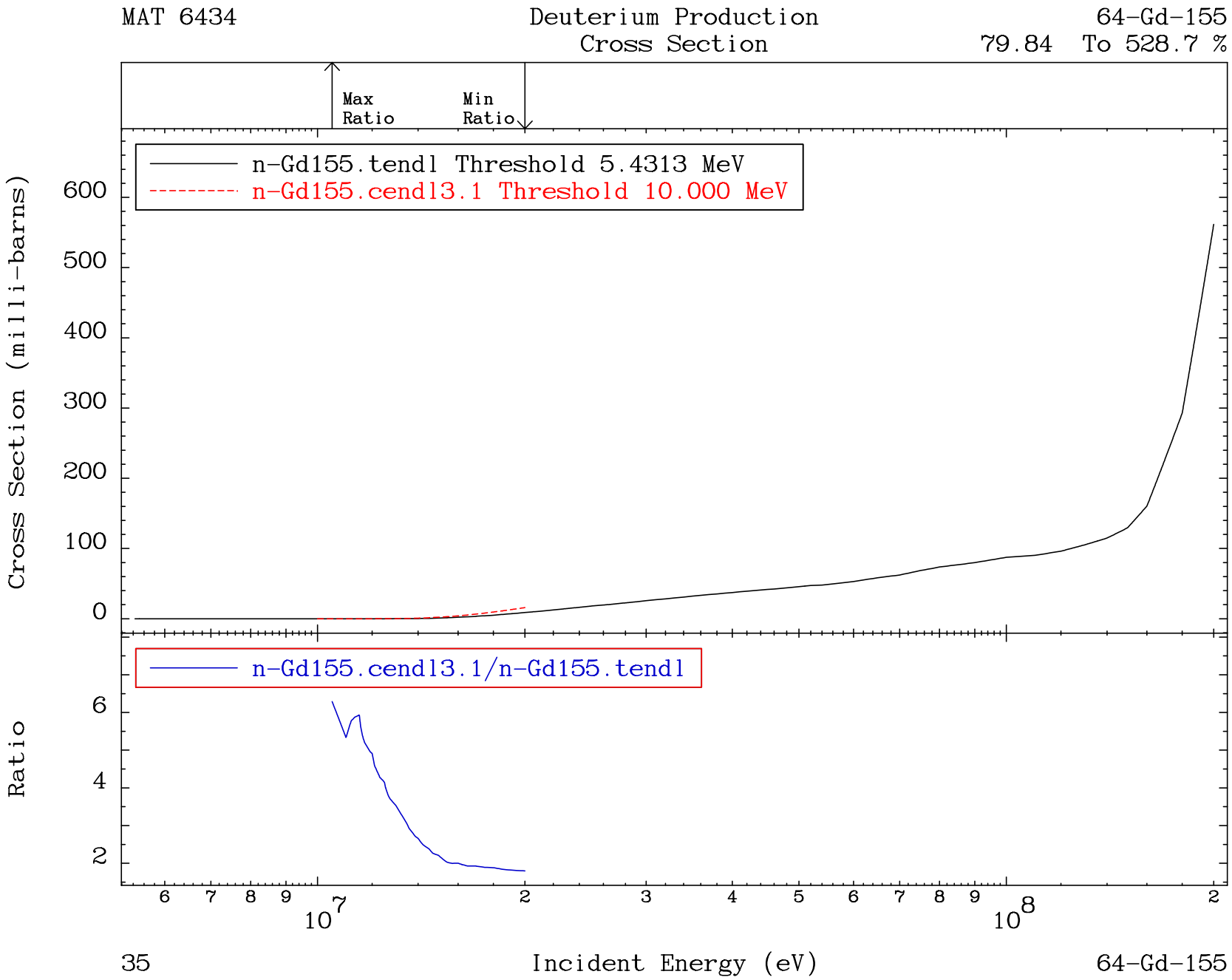

MAT 6434
(n,d)
Cross Section
64-Gd-155
81.86 To 528.7 %
Max Ratio
Min Ratio
n-Gd155.tendl Threshold 5.4313 MeV
n-Gd155.cendl3.1 Threshold 10.000 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
6
4
2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
64-Gd-155

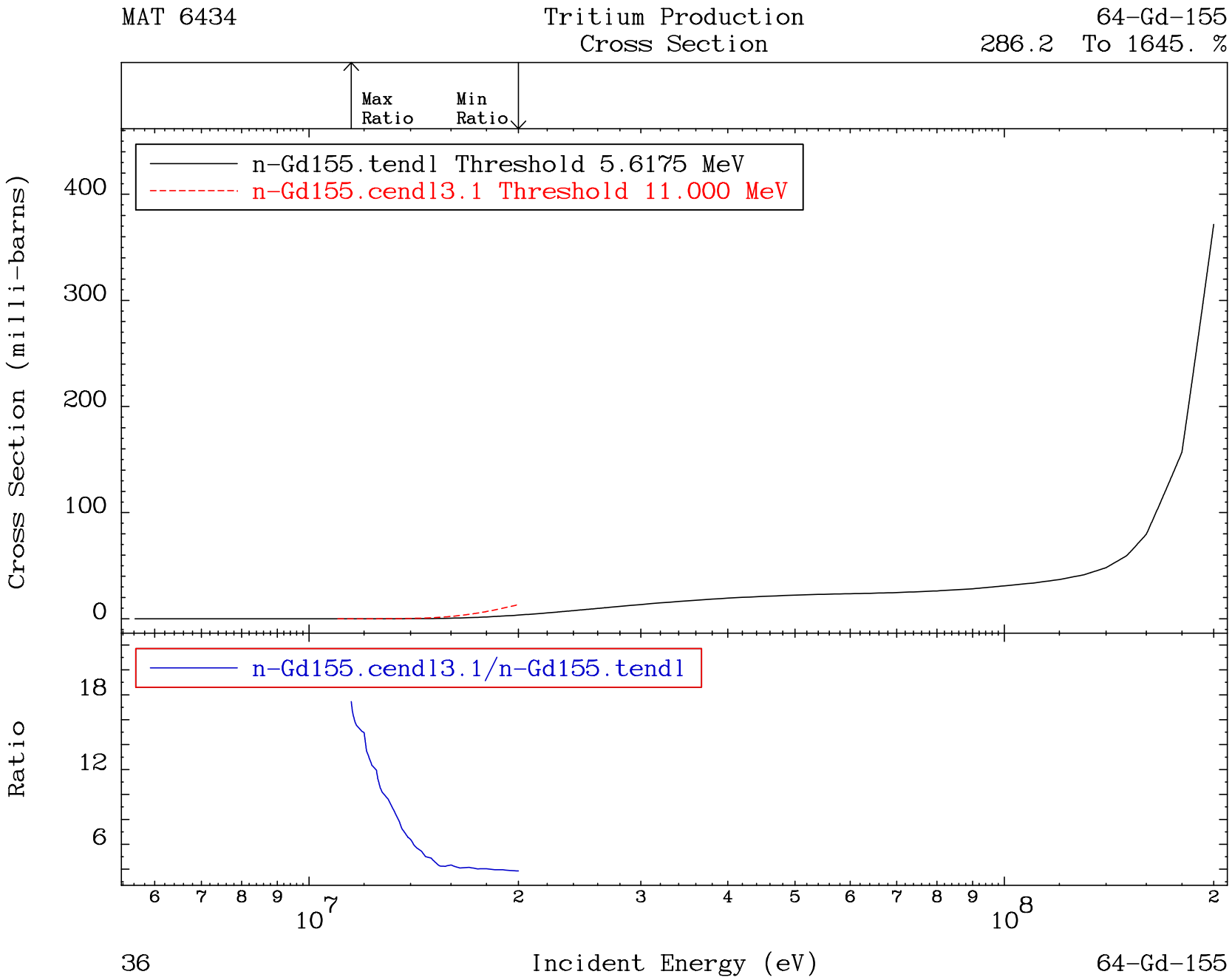

MAT 6434
(n,t)
Cross Section
64-Gd-155
286.3 To 1645. %
Max Ratio
Min Ratio
n-Gd155.tendl Threshold 5.6175 MeV
n-Gd155.cendl3.1 Threshold 11.000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
6
12
18
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
64-Gd-155

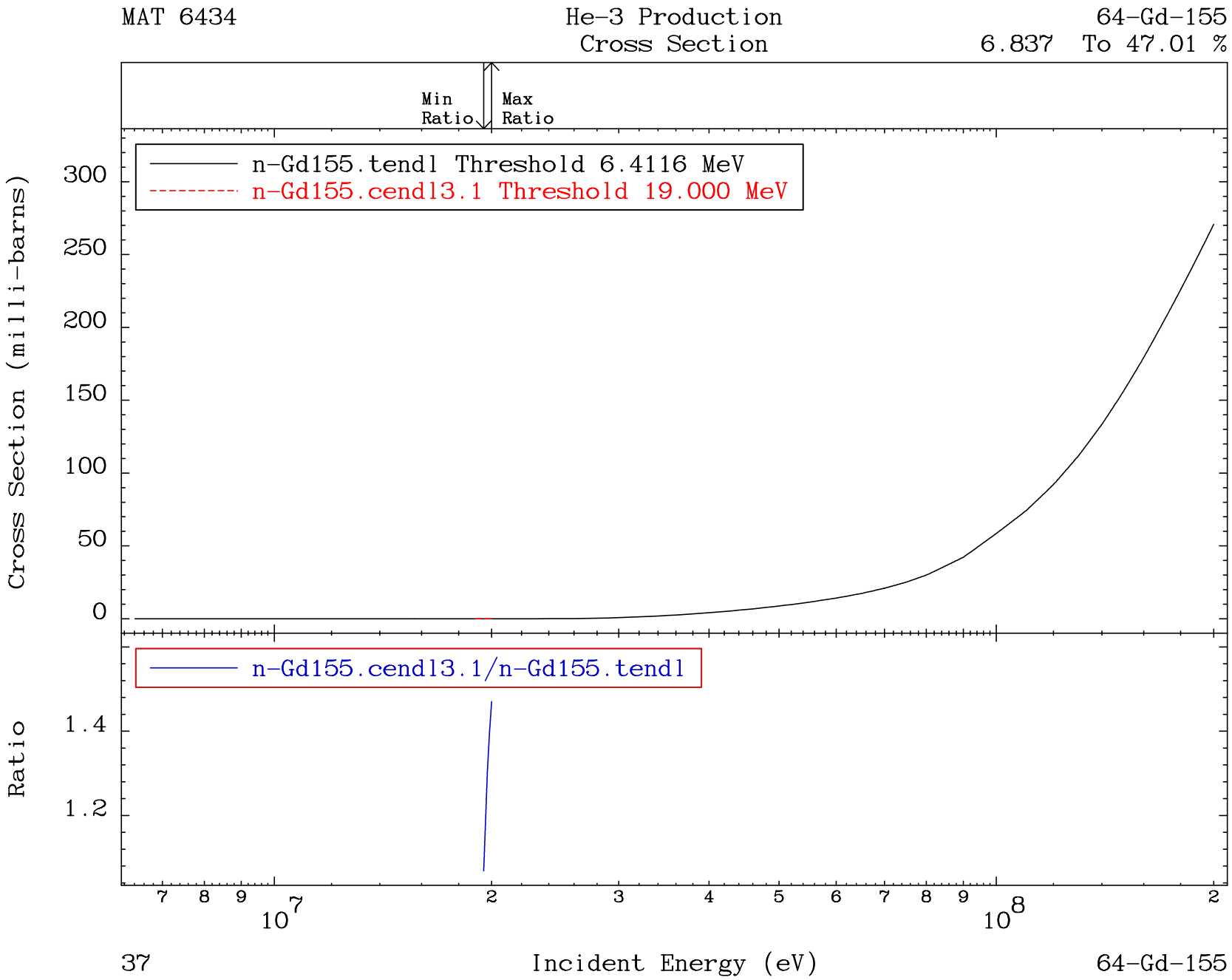

MAT 6434
(n,He-3)
Cross Section
64-Gd-155
6.838 To 47.01 %
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 6.4116 MeV
n-Gd155.cendl3.1 Threshold 19.000 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
1.4
1.2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
64-Gd-155

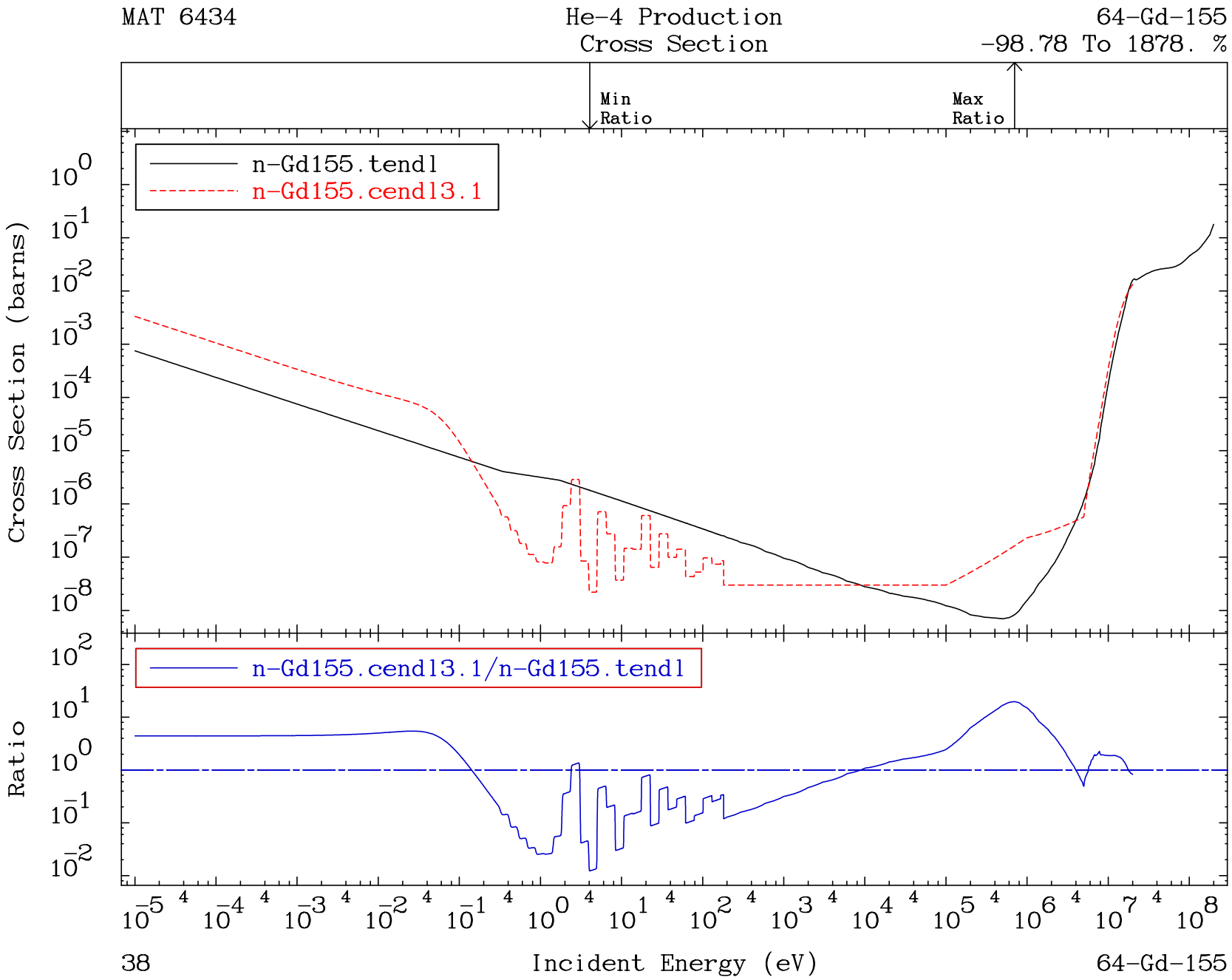

MAT 6434
(n,α)
Cross Section
64-Gd-155
-98.78 To 1878. %
Min Ratio
Max Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
33
Incident Energy (eV)
64-Gd-155

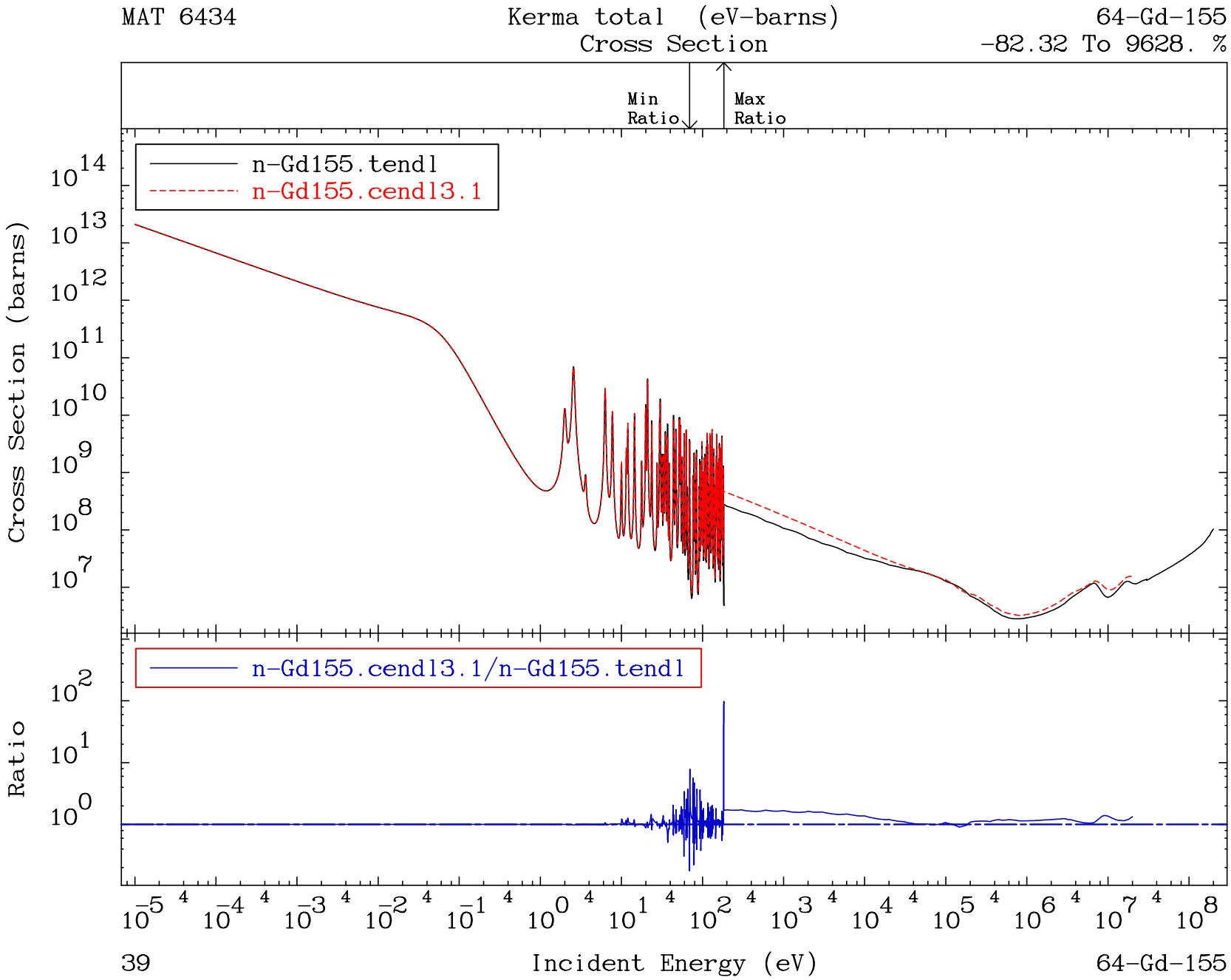

MAT 6434
Hydrogen Production
Cross Section
64-Gd-155
-100.0 To 257.9 %
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 184.00 eV
n-Gd155.cendl3.1 Threshold 3.2279 MeV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^0
10^-5
10^-10
10^-15
2 3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
34
Incident Energy (eV)
64-Gd-155

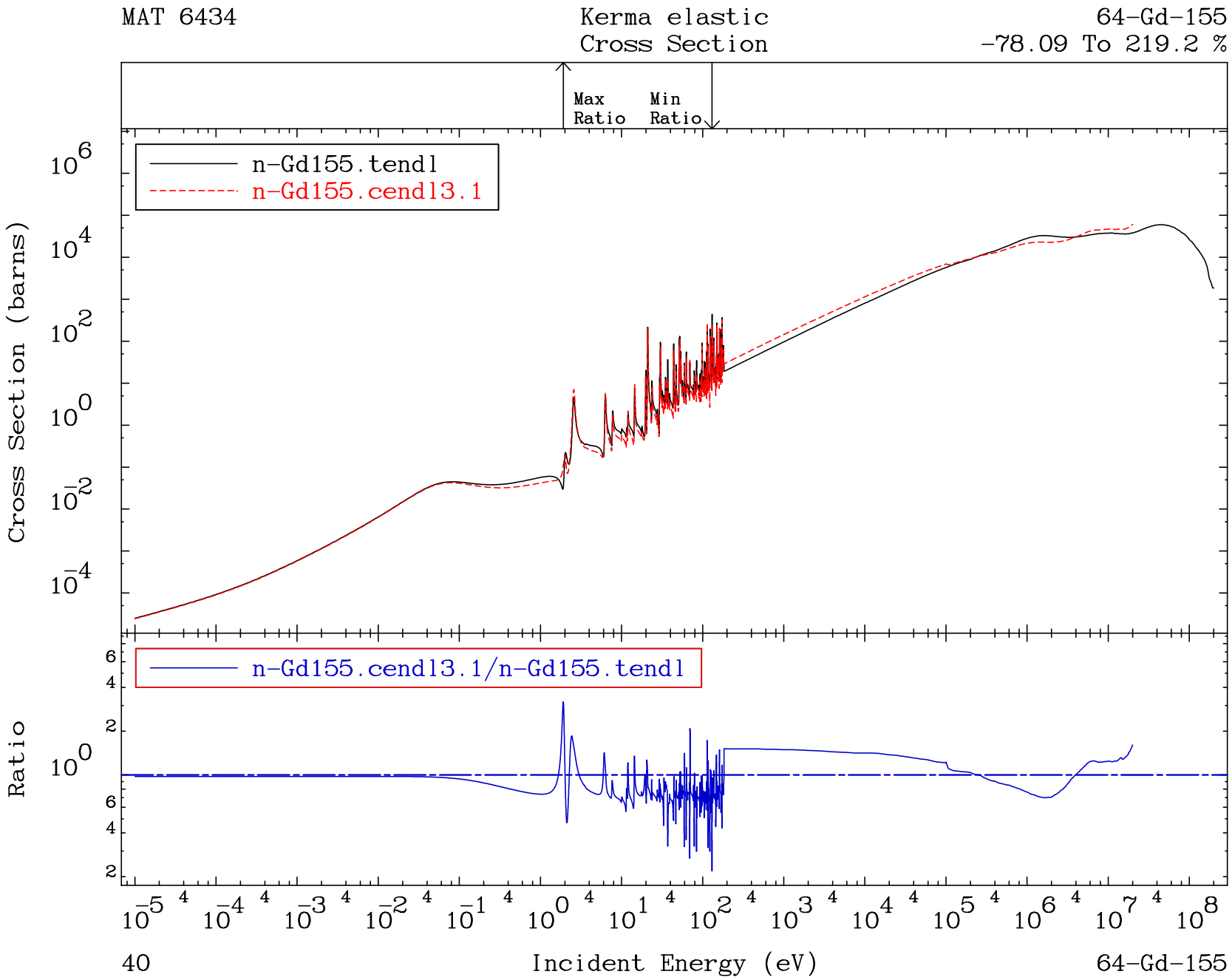

MAT 6434
Deuterium Production
Cross Section
64-Gd-155
79.84 To 528.7 %
Max Ratio
Min Ratio
n-Gd155.tendl Threshold 5.4313 MeV
n-Gd155.cendl3.1 Threshold 10.000 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
6
4
2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
64-Gd-155

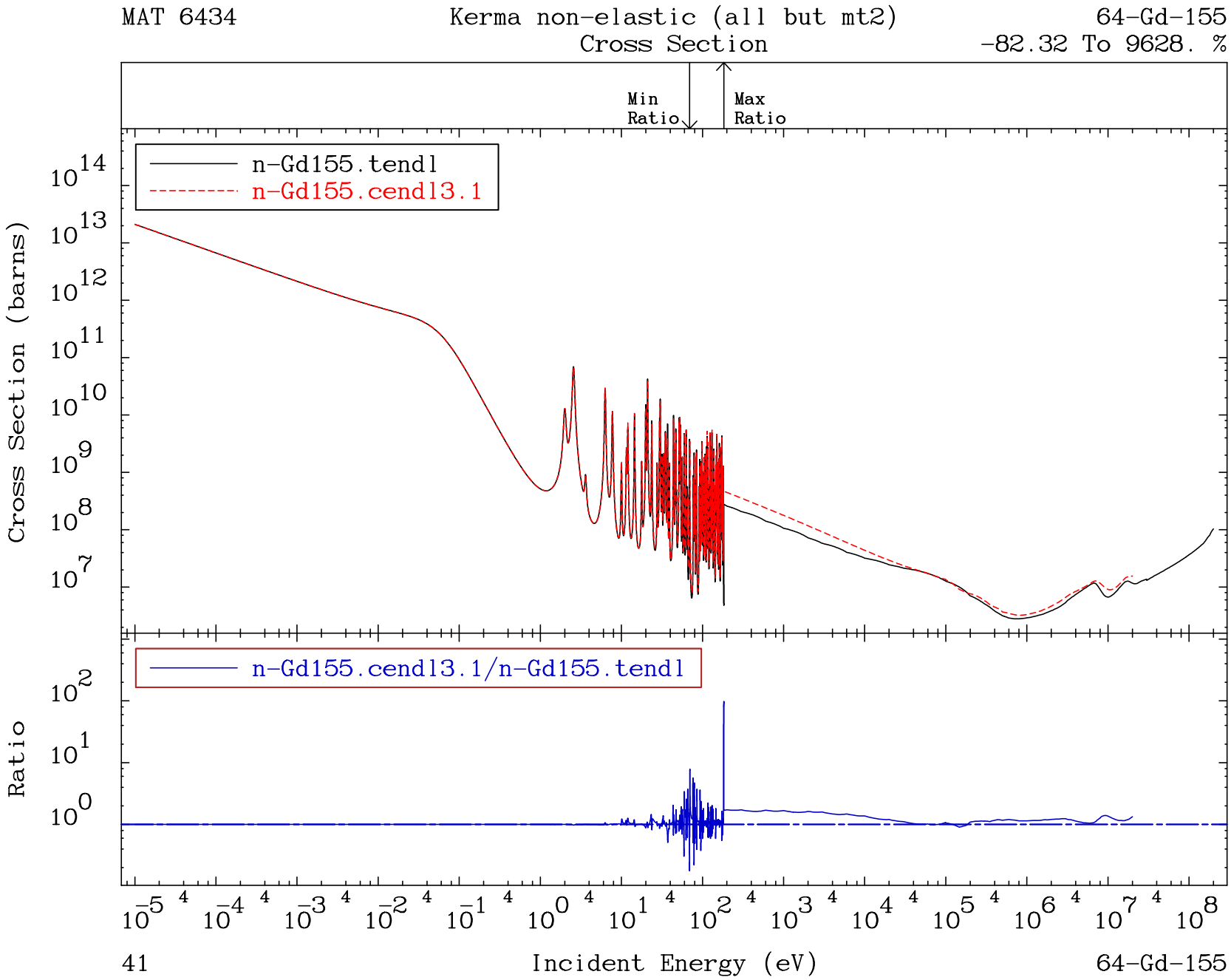

MAT 6434
Tritium Production
Cross Section
64-Gd-155
286.2 To 1645. %
Max Ratio
Min Ratio
n-Gd155.tendl Threshold 5.6175 MeV
n-Gd155.cendl3.1 Threshold 11.000 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
18
12
6
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
64-Gd-155

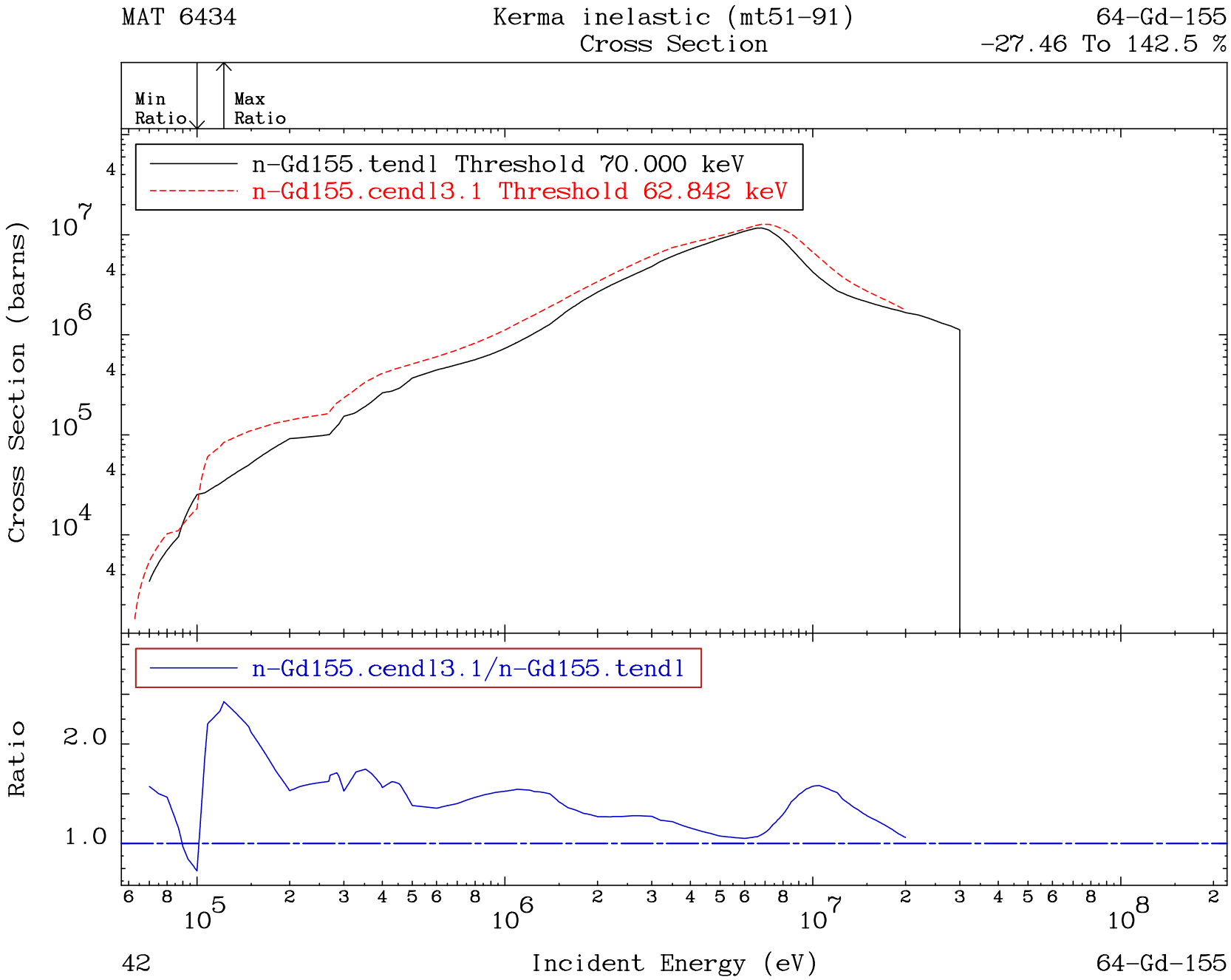

MAT 6434
He-3 Production
Cross Section
64-Gd-155
6.837 To 47.01 %
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 6.4116 MeV
n-Gd155.cendl3.1 Threshold 19.000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
1.4
1.2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
64-Gd-155

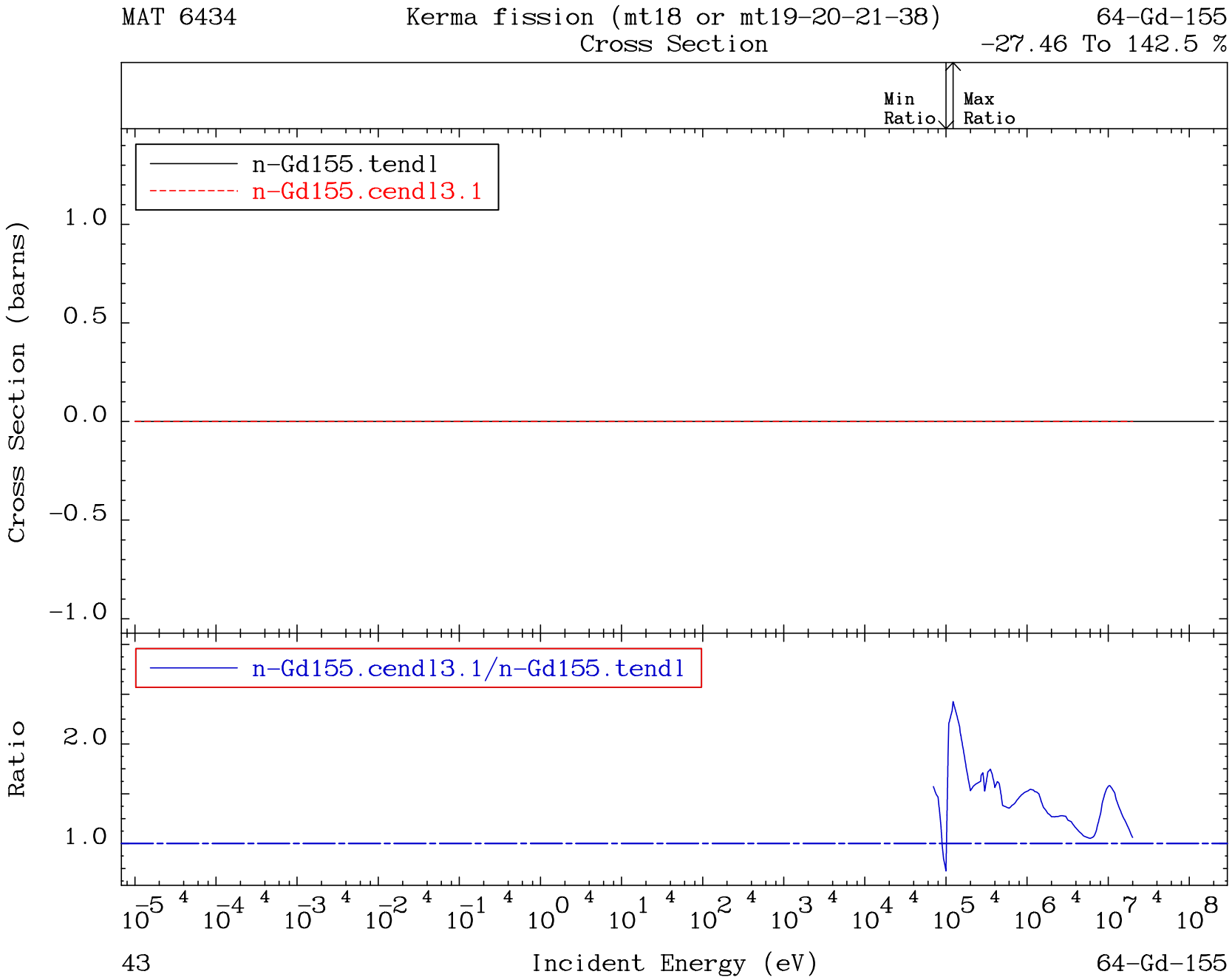

MAT 6434
He-4 Production
Cross Section
64-Gd-155
-98.78 To 1878. %
Min
Ratio
Max
Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
38
Incident Energy (eV)
64-Gd-155

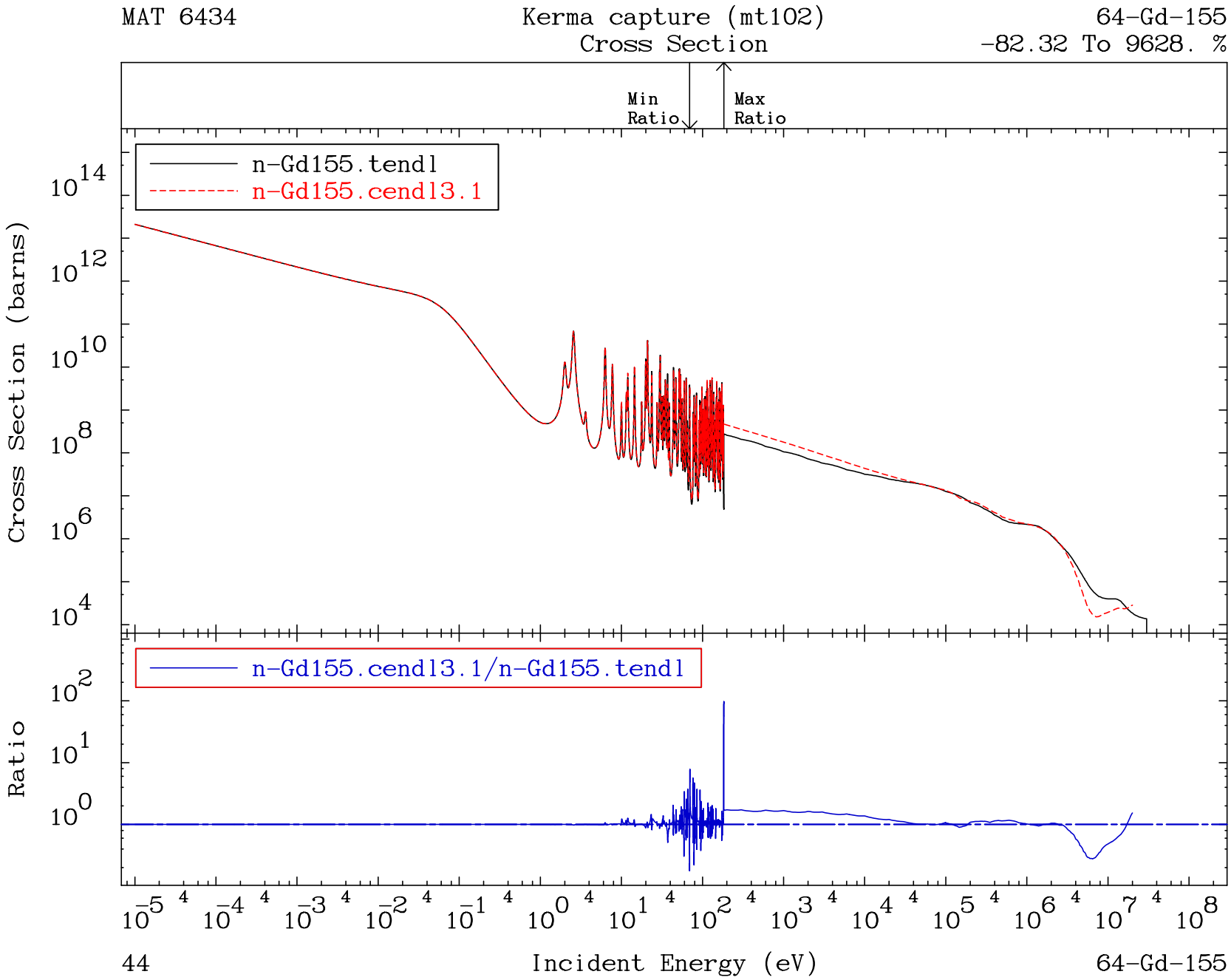

MAT 6434
Kerma total (eV-barns)
Cross Section
64-Gd-155
-82.32 To 9628. %
Min Ratio
Max Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
39
64-Gd-155

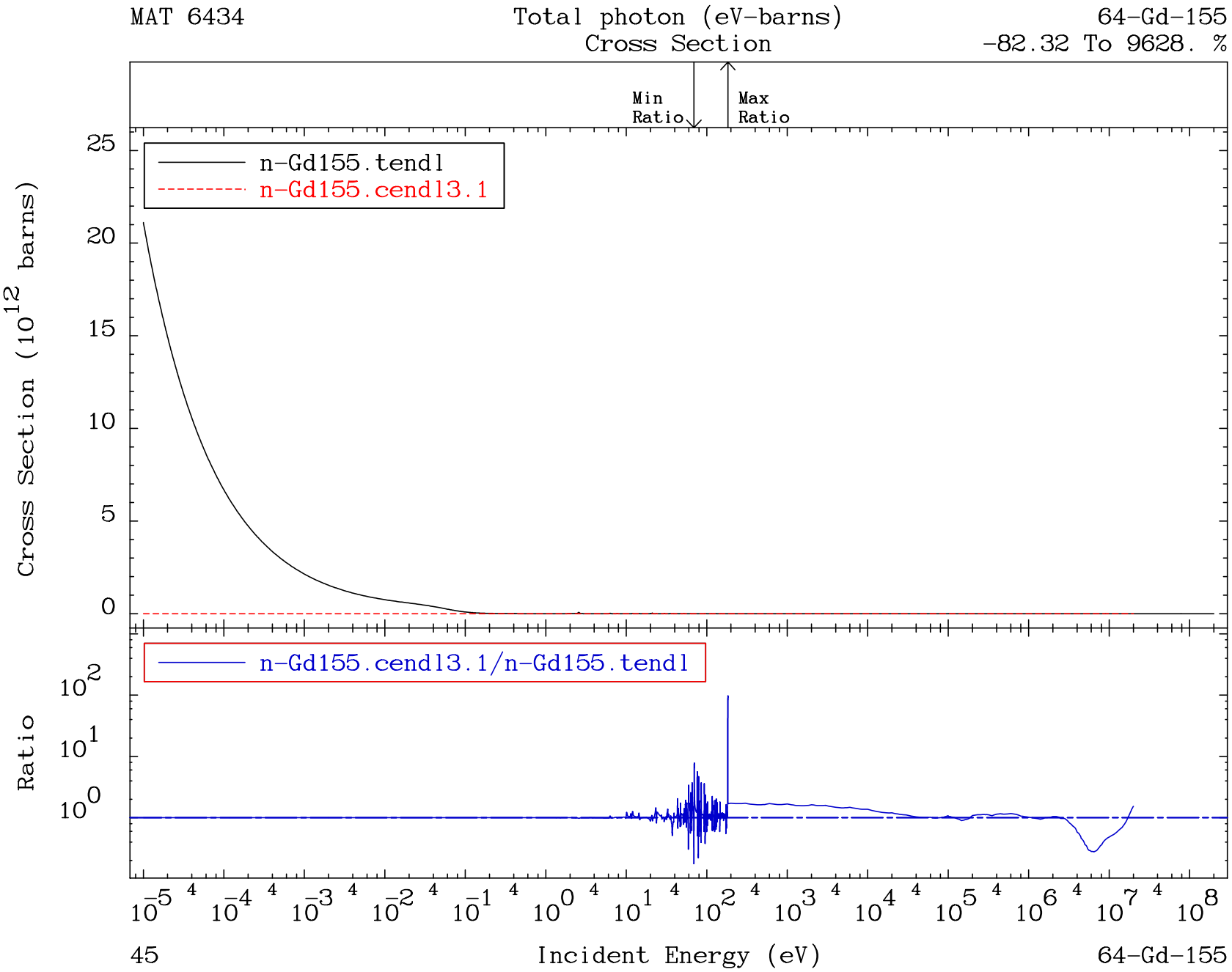

MAT 6434
Kerma elastic
Cross Section
64-Gd-155
-78.09 To 219.2 %
Max Ratio
Min Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
40
64-Gd-155

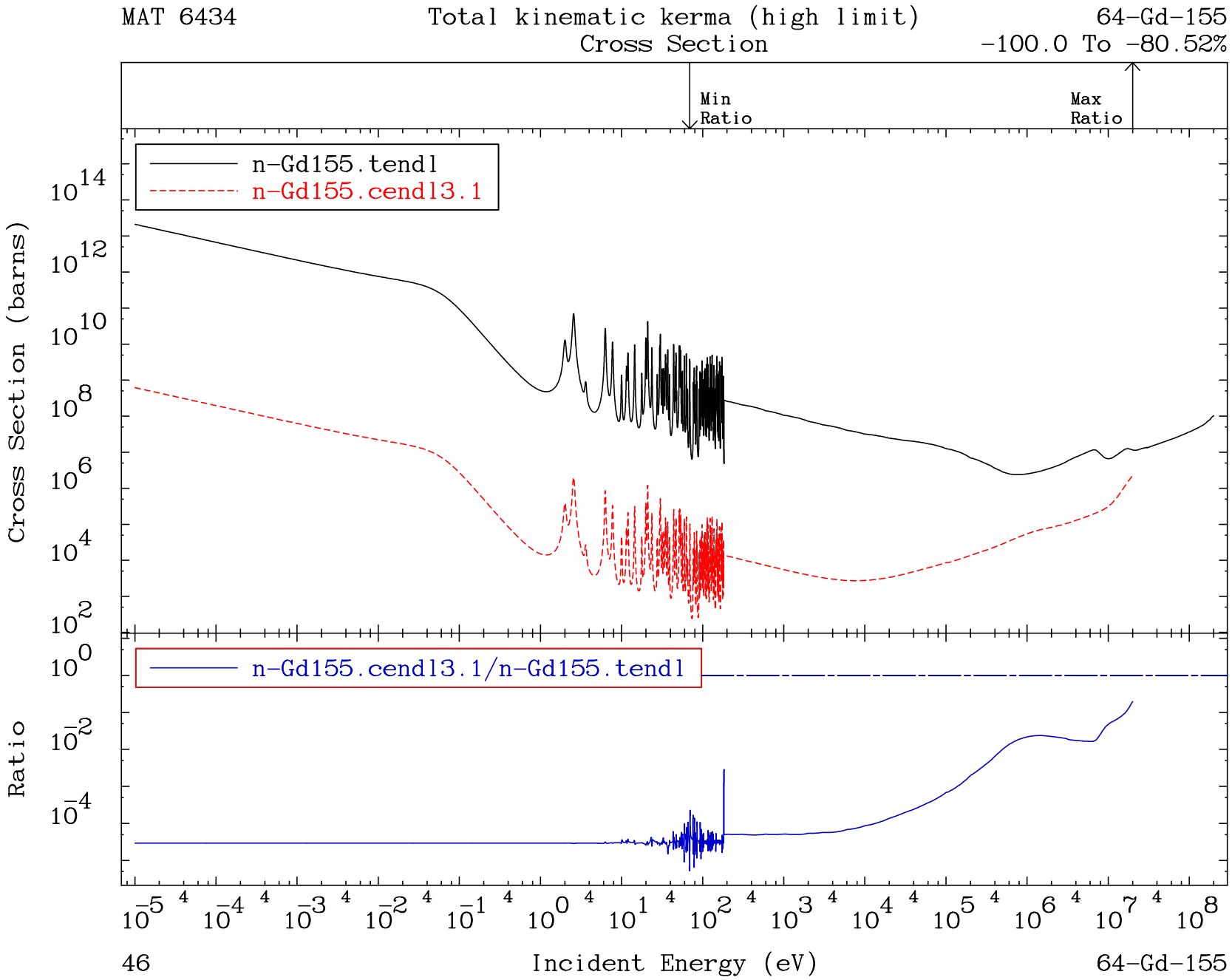

MAT 6434
Kerma non-elastic (all but mt2)
Cross Section
64-Gd-155
-82.32 To 9628. %
Min Ratio
Max Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
41
64-Gd-155

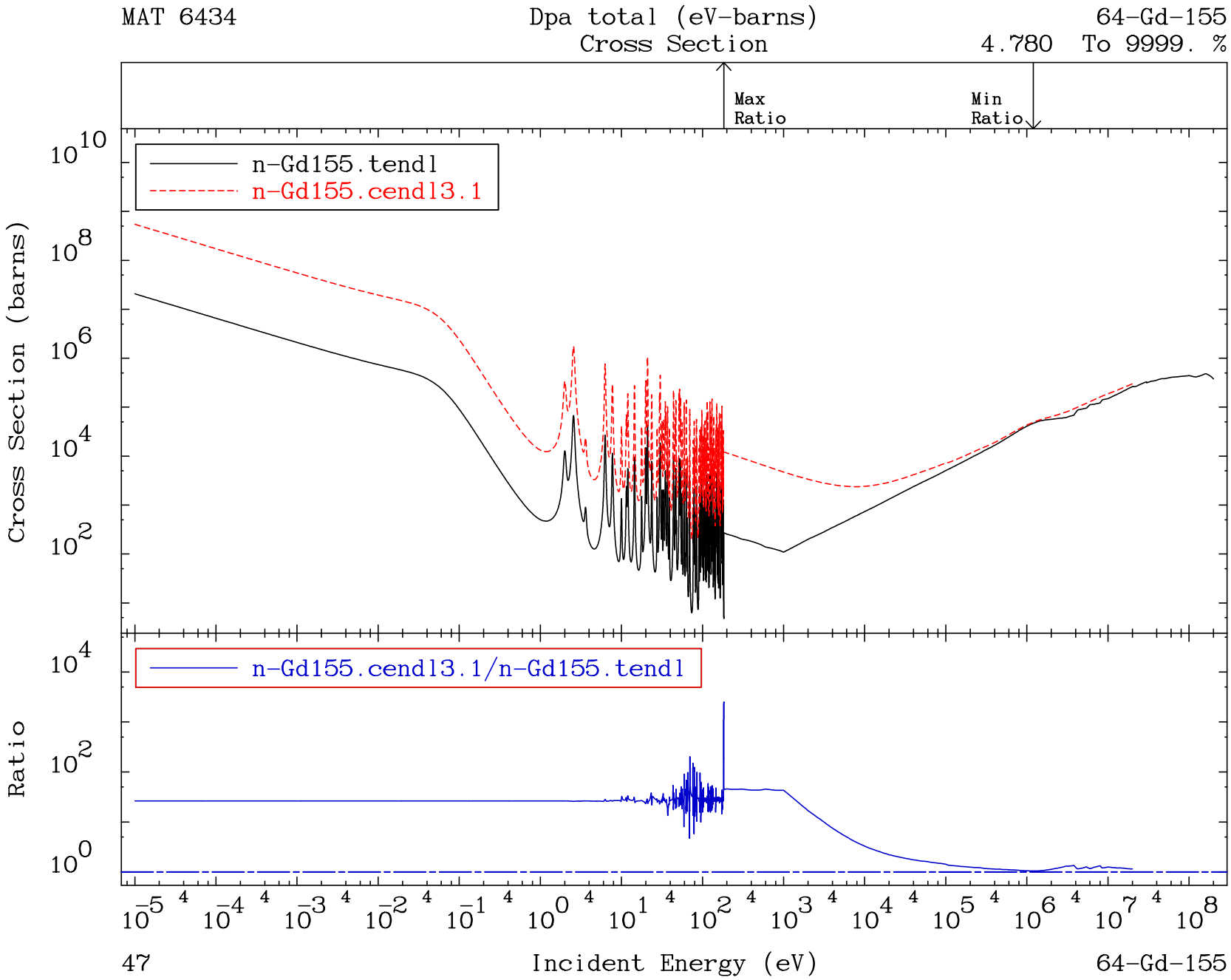

MAT 6434
Kerma inelastic (mt51-91)
Cross Section
64-Gd-155
-27.46 To 142.5 %
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 70.000 keV
n-Gd155.cendl3.1 Threshold 62.842 keV
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
42
64-Gd-155

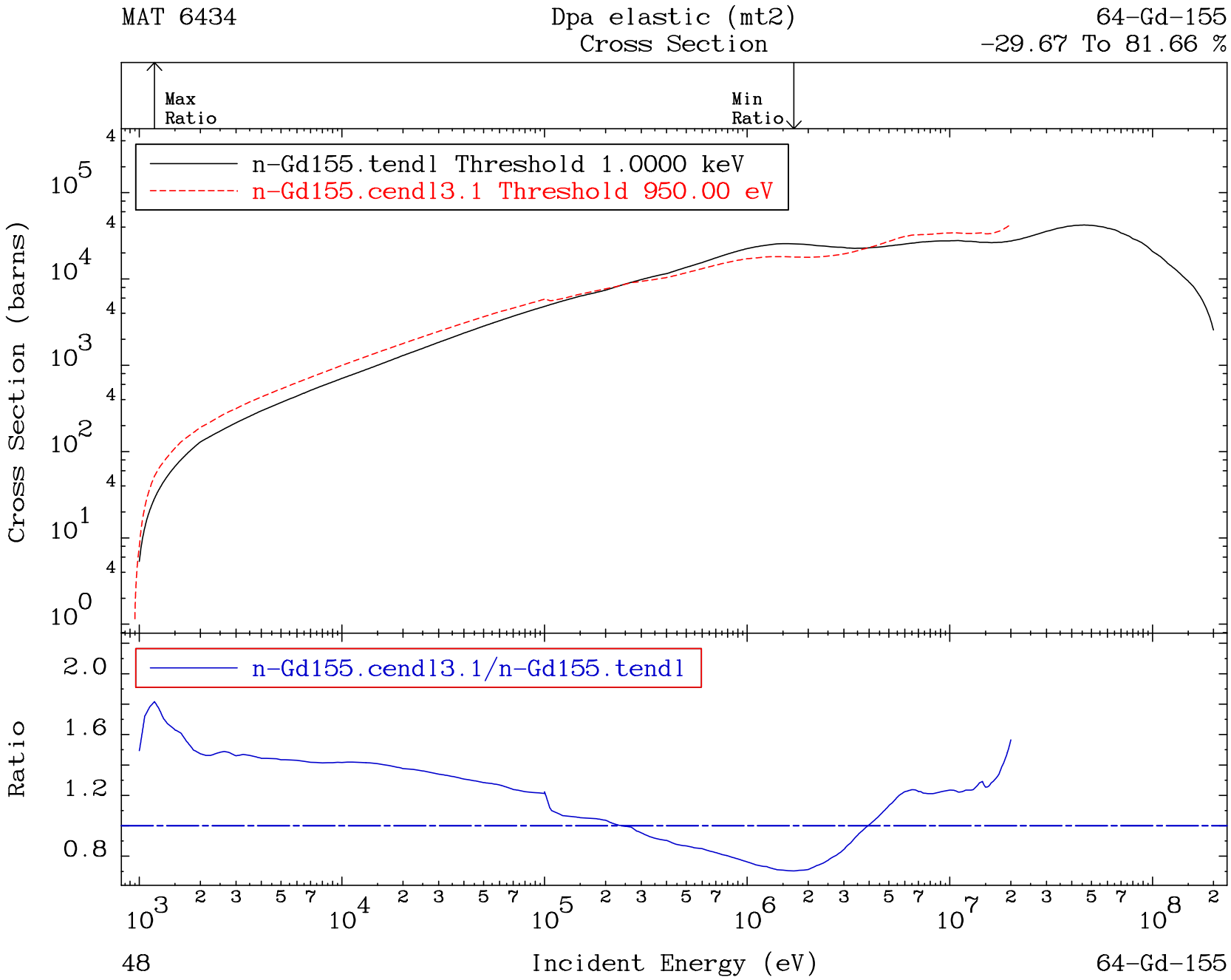

MAT 6434
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
64-Gd-155
-27.46 To 142.5 %
Min Ratio
Max Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
2.0
1.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
43
Incident Energy (eV)
64-Gd-155

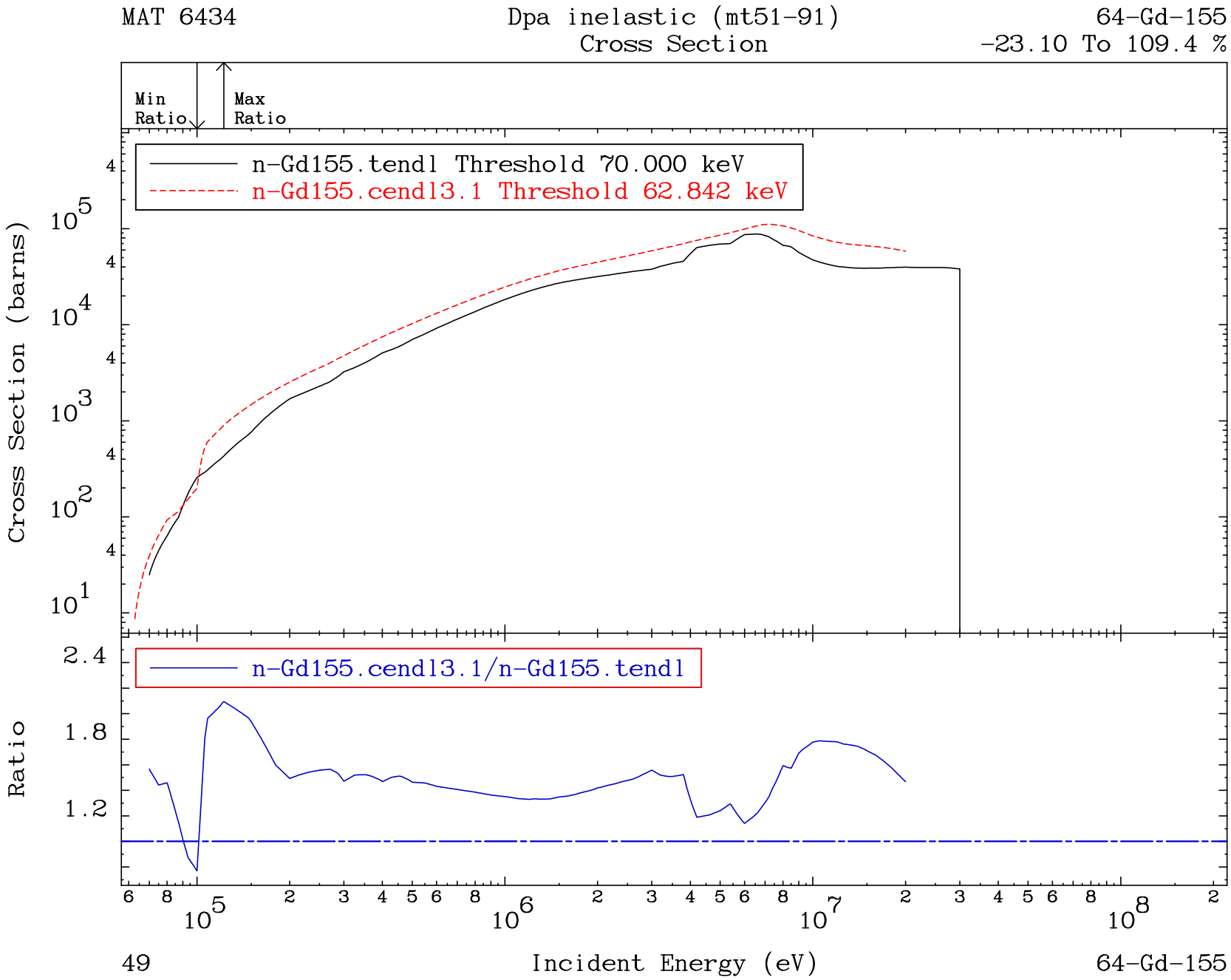

MAT 6434
Kerma capture (mt102)
Cross Section
64-Gd-155
-82.32 To 9628. %
Min Ratio
Max Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
44
64-Gd-155

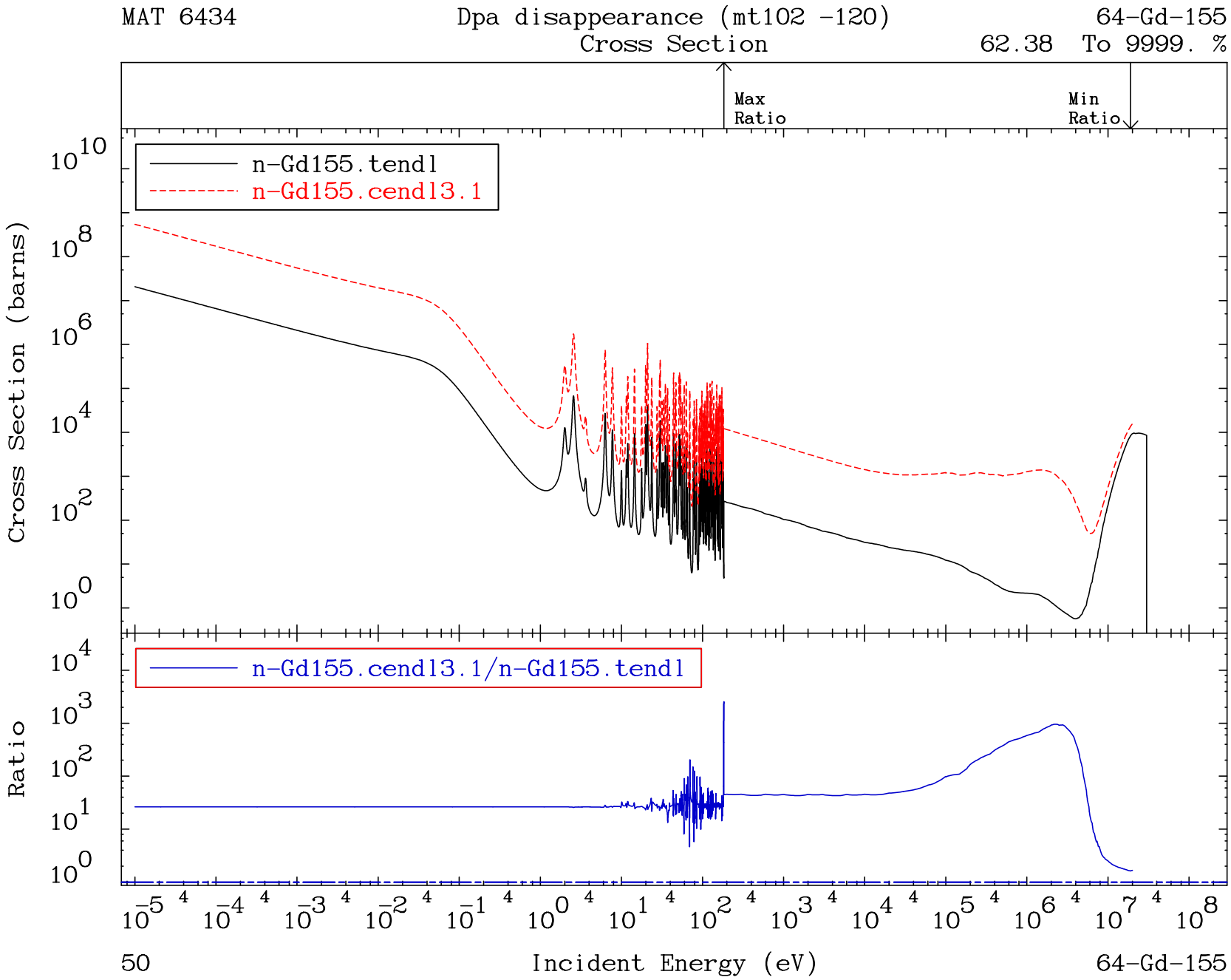

MAT 6434
Total photon (eV-barns)
Cross Section
64-Gd-155
-82.32 To 9628. %
Min Ratio
Max Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (10^12 barns)
25
20
15
10
5
0
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
10^2
10^1
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
45
Incident Energy (eV)
64-Gd-155


MAT 6434
Total kinematic kerma (high limit)
Cross Section
64-Gd-155
-100.0 To -80.52%
Min Ratio
Max Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
46
64-Gd-155


MAT 6434
Dpa total (eV-barns)
Cross Section
64-Gd-155
4.780 To 9999. %
Max Ratio
Min Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
47
64-Gd-155


MAT 6434
Dpa elastic (mt2)
Cross Section
64-Gd-155
-29.67 To 81.66 %
Max Ratio
Min Ratio
n-Gd155.tendl Threshold 1.0000 keV
n-Gd155.cendl3.1 Threshold 950.00 eV
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
48
64-Gd-155


MAT 6434
Dpa inelastic (mt51-91)
Cross Section
64-Gd-155
-23.10 To 109.4 %
Min Ratio
Max Ratio
n-Gd155.tendl Threshold 70.000 keV
n-Gd155.cendl3.1 Threshold 62.842 keV
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
49
64-Gd-155


MAT 6434
Dpa disappearance (mt102 -120)
Cross Section
64-Gd-155
62.38 To 9999. %
Max Ratio
Min Ratio
n-Gd155.tendl
n-Gd155.cendl3.1
Cross Section (barns)
n-Gd155.cendl3.1/n-Gd155.tendl
Ratio
Incident Energy (eV)
50
64-Gd-155