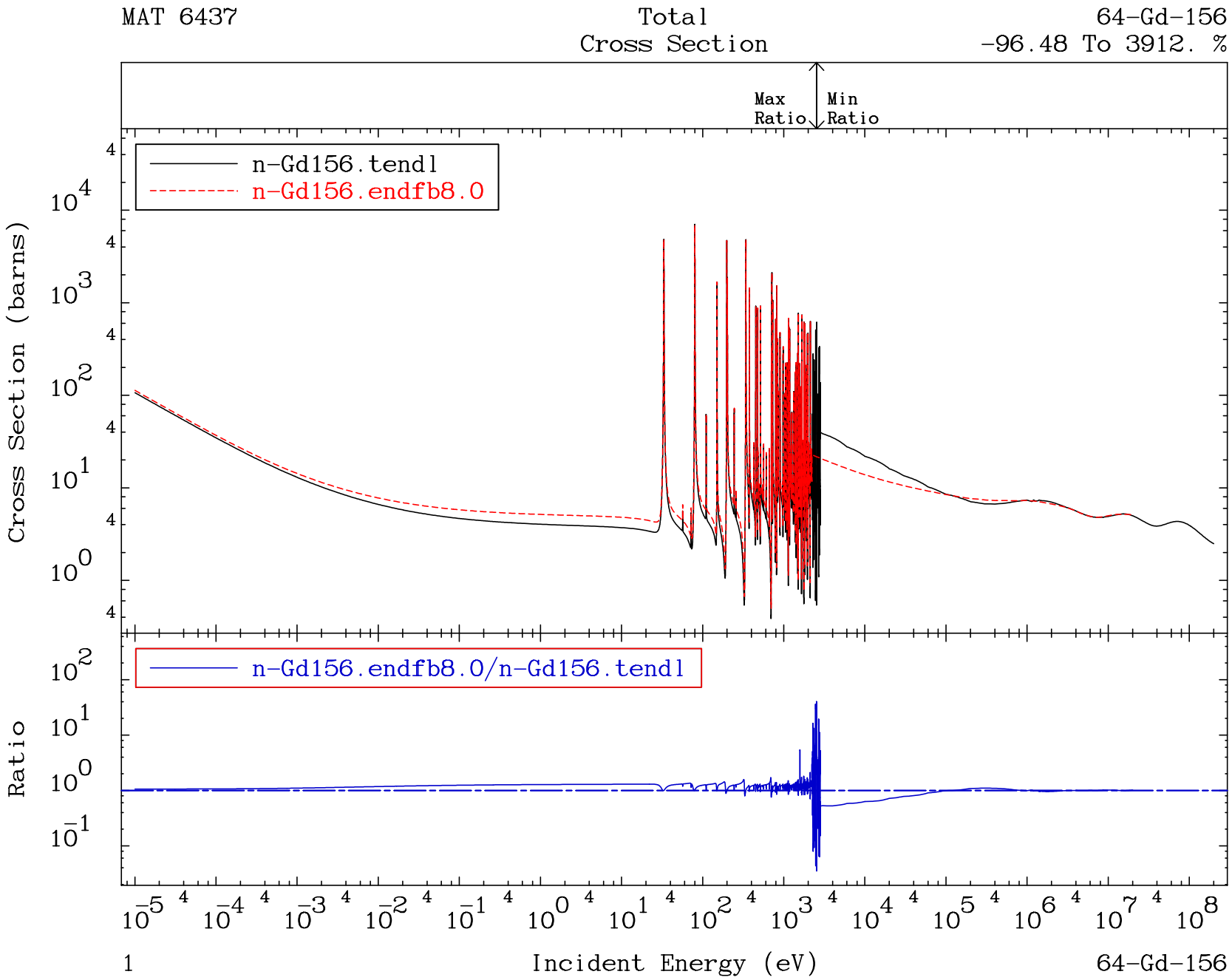
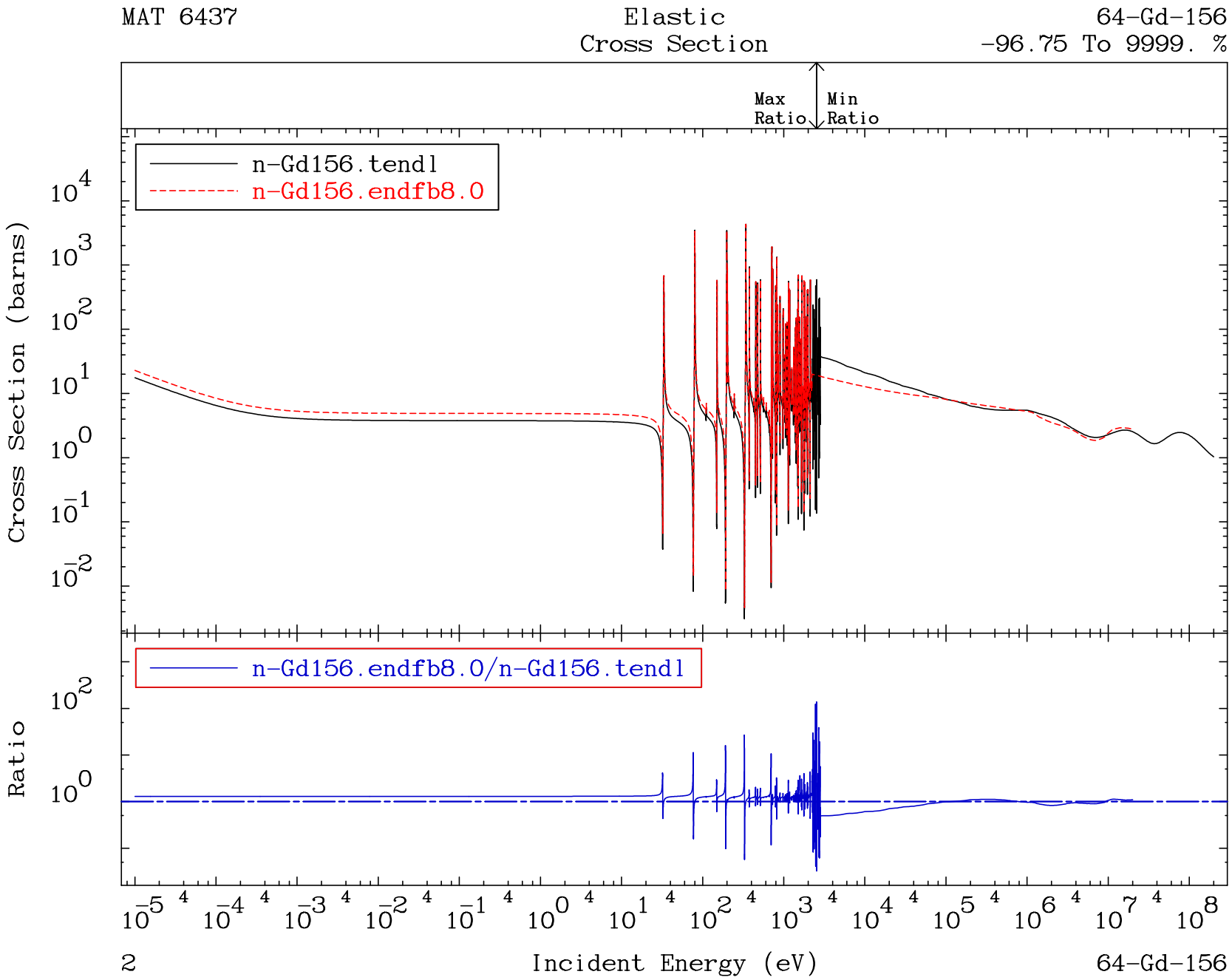
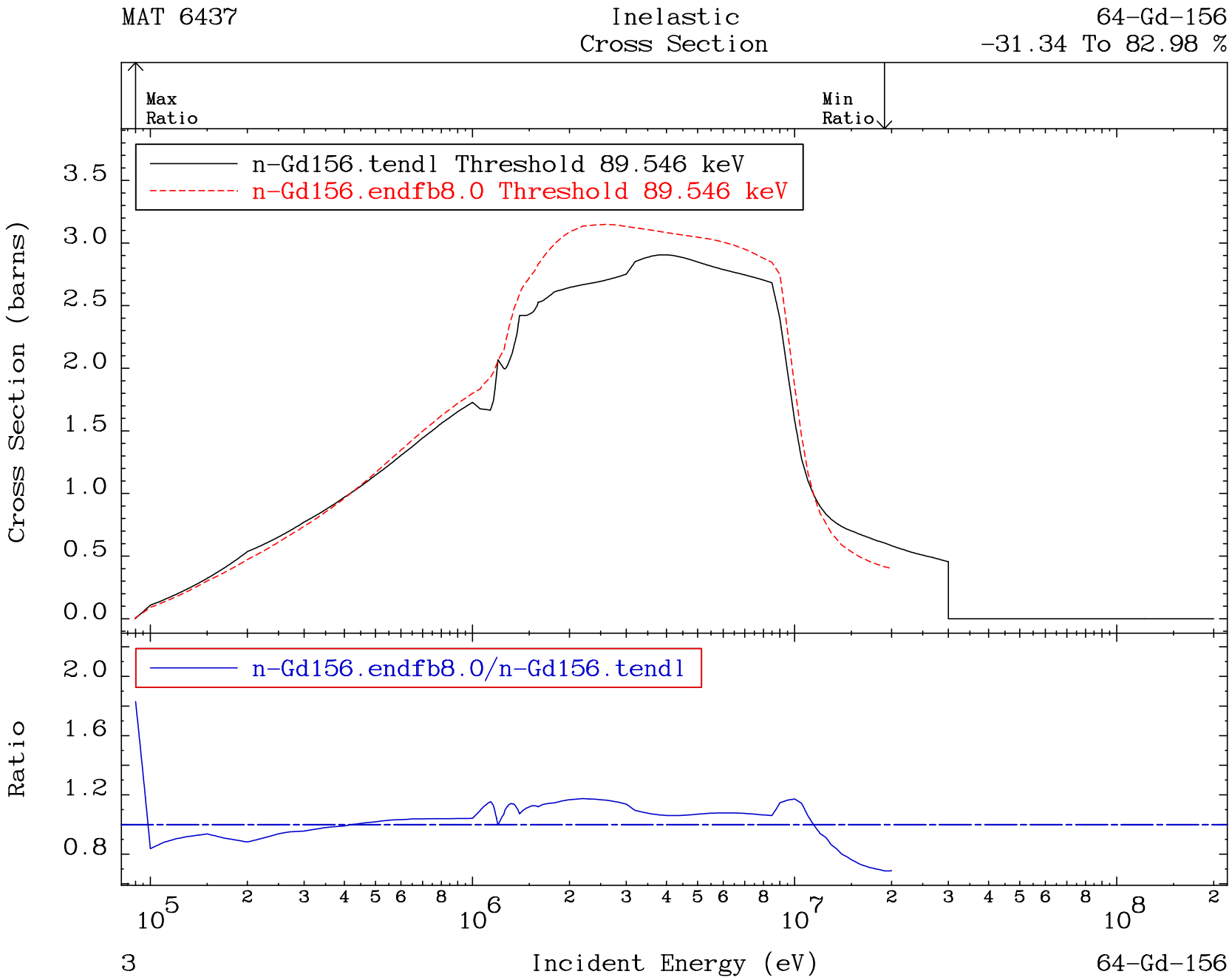
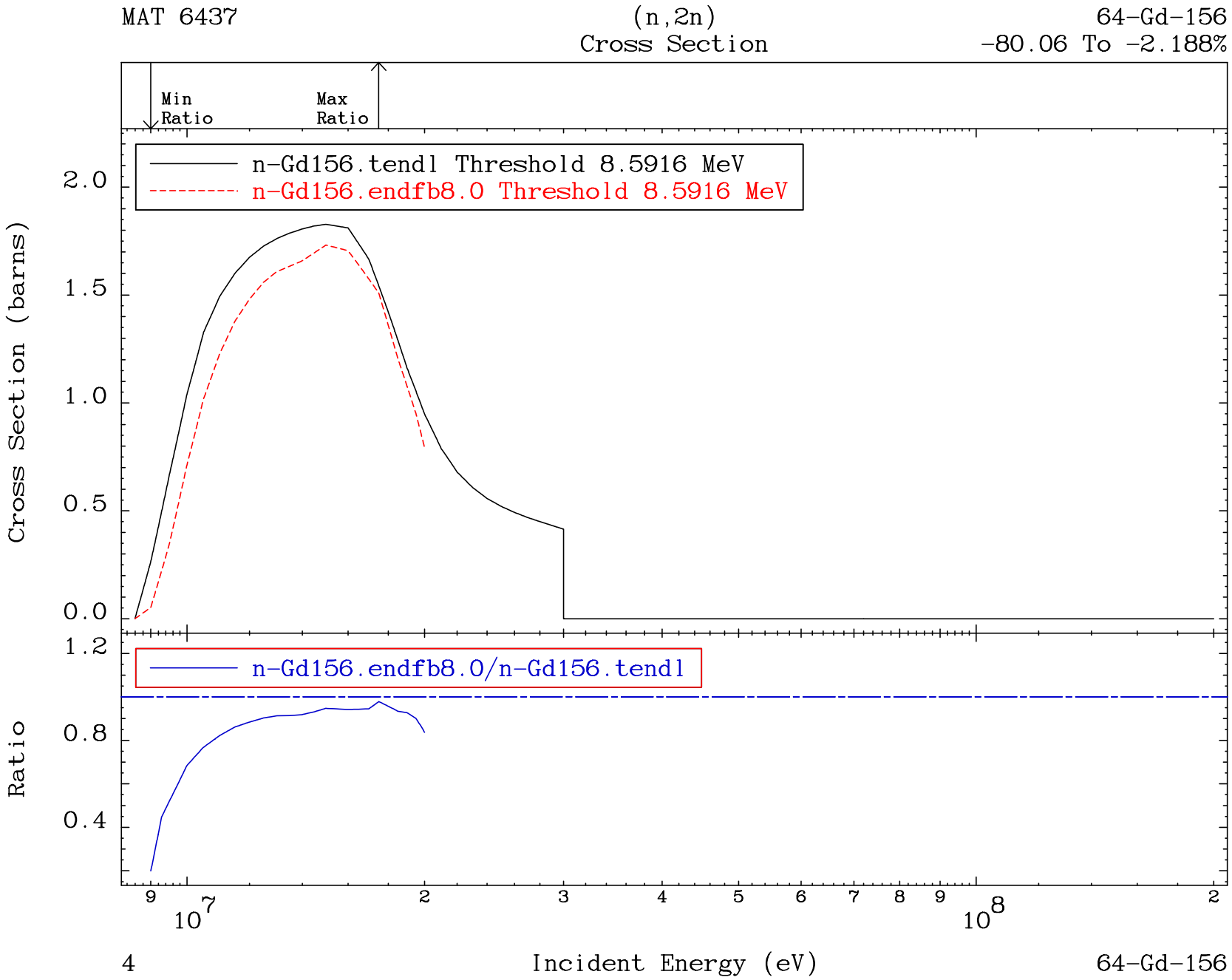
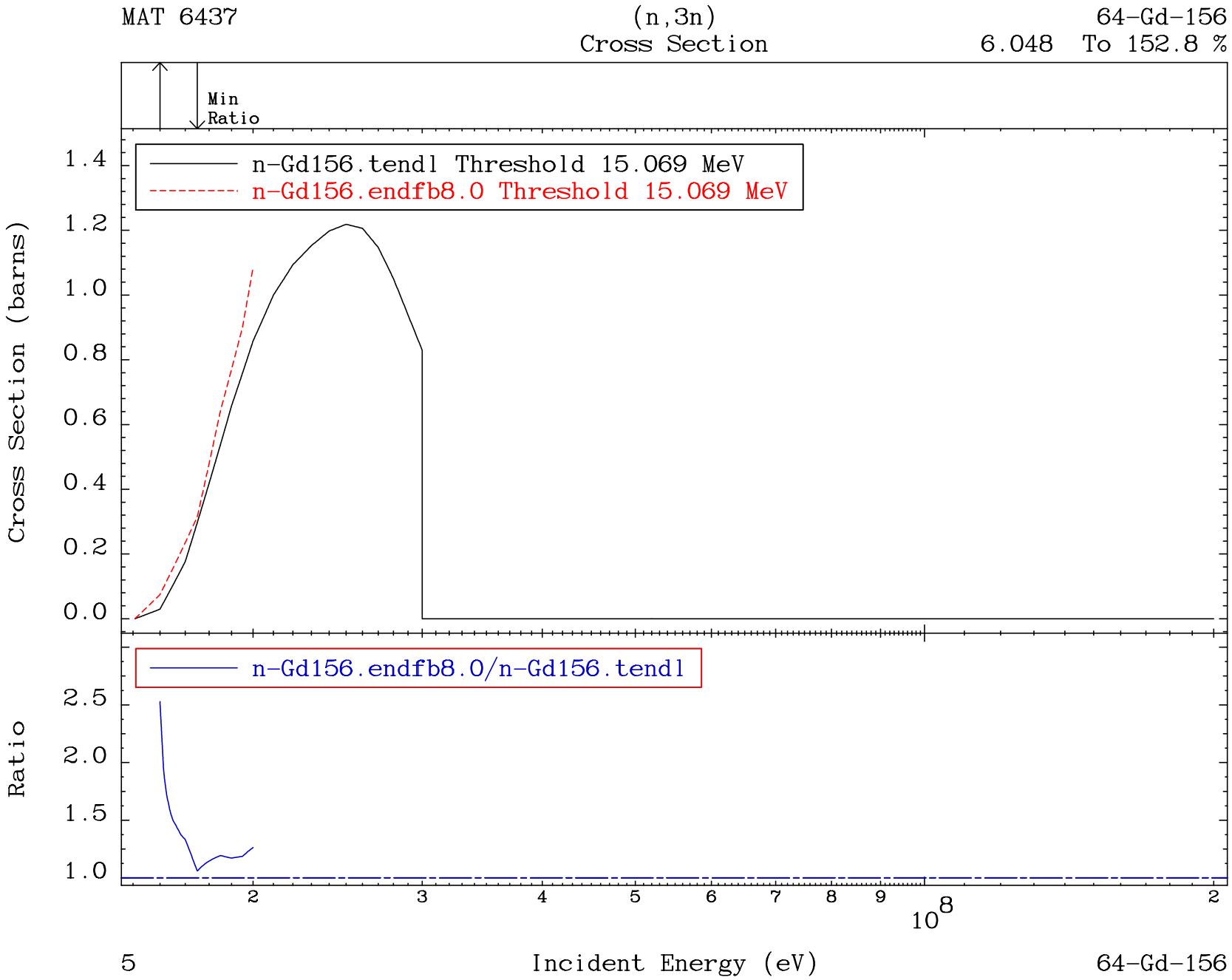
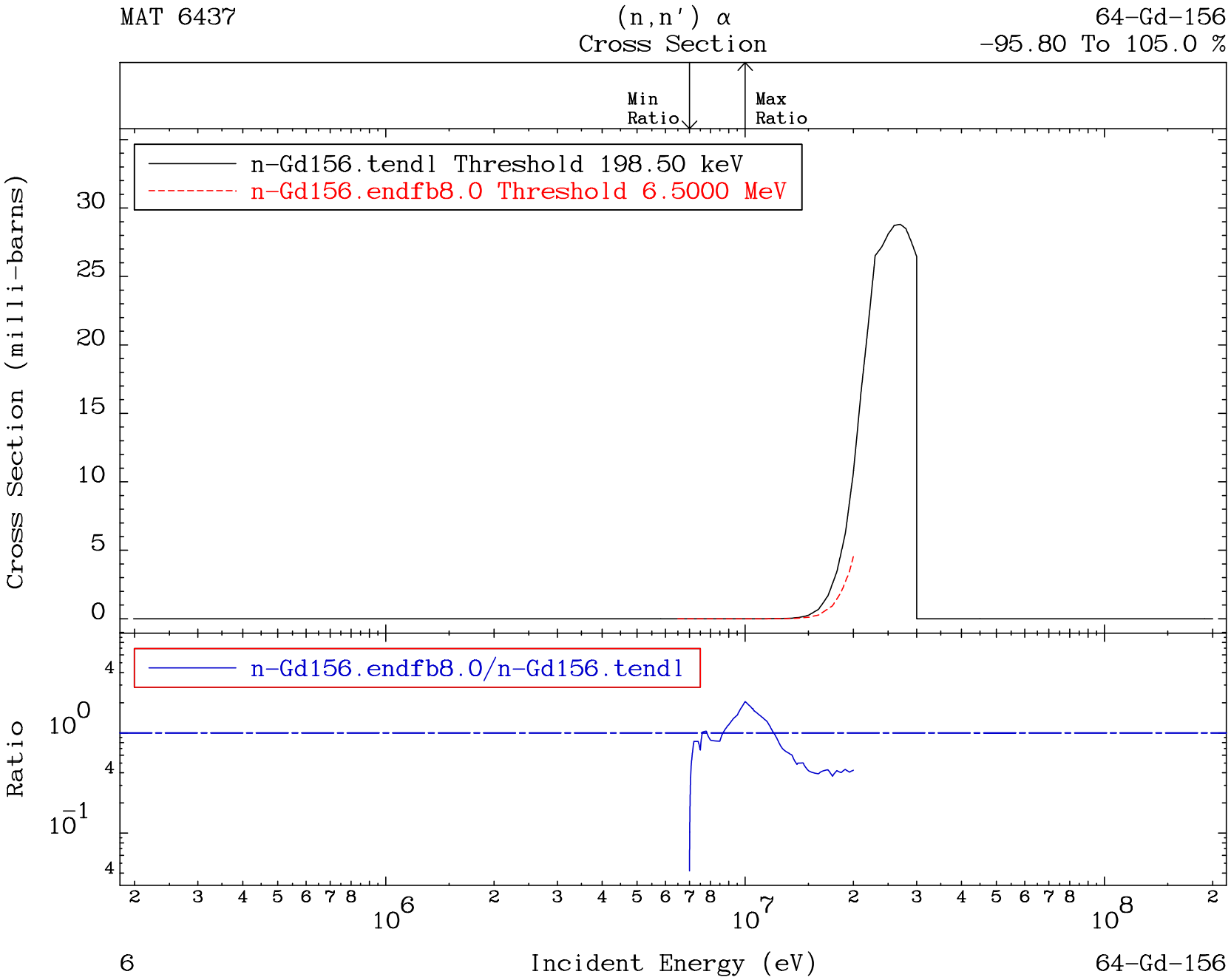

MAT 6437
Total
Cross Section
64-Gd-156
-96.48 To 3912. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
Incident Energy (eV)
64-Gd-156
1

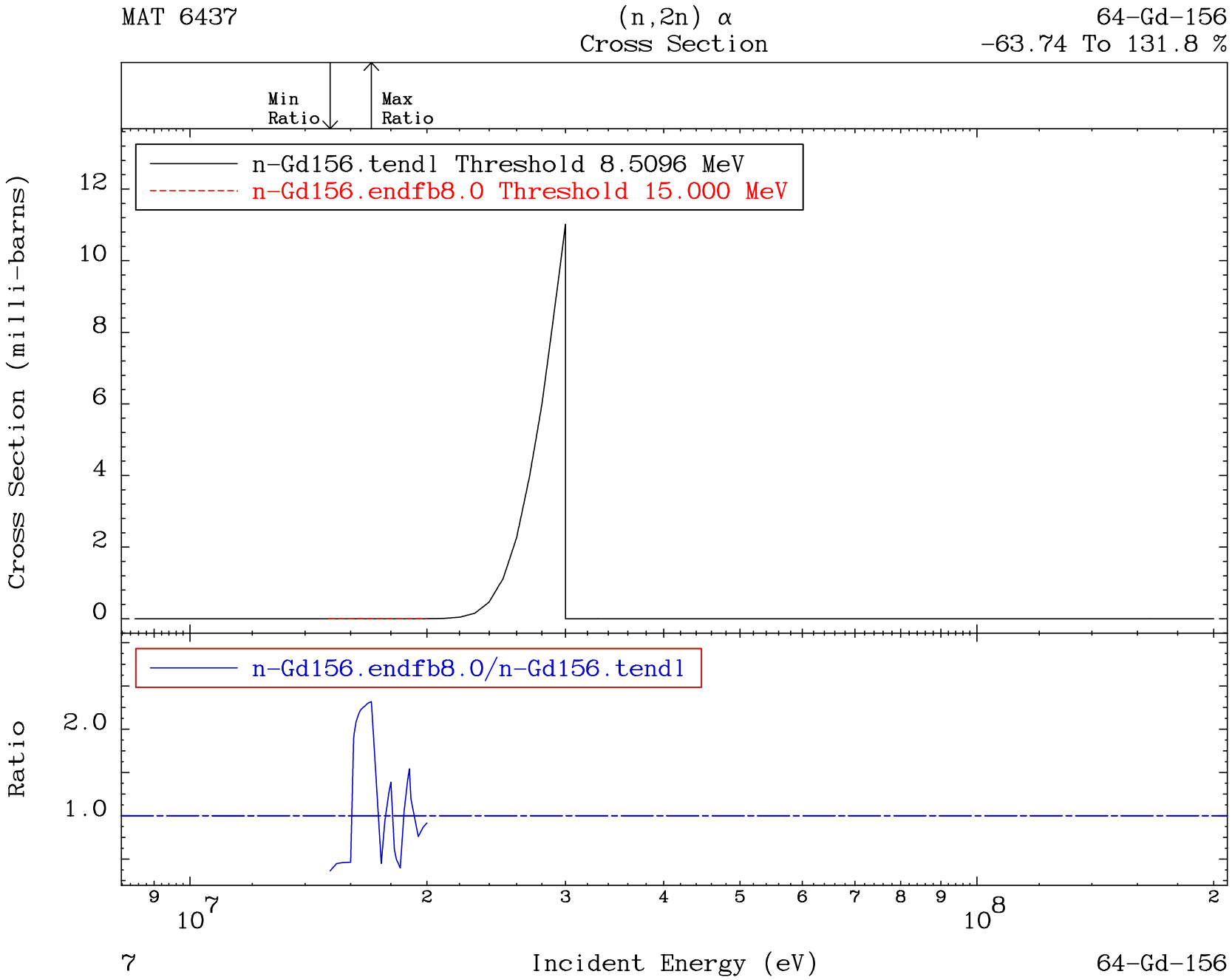

MAT 6437
Elastic
Cross Section
64-Gd-156
-96.75 To 9999. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
Incident Energy (eV)
2
64-Gd-156

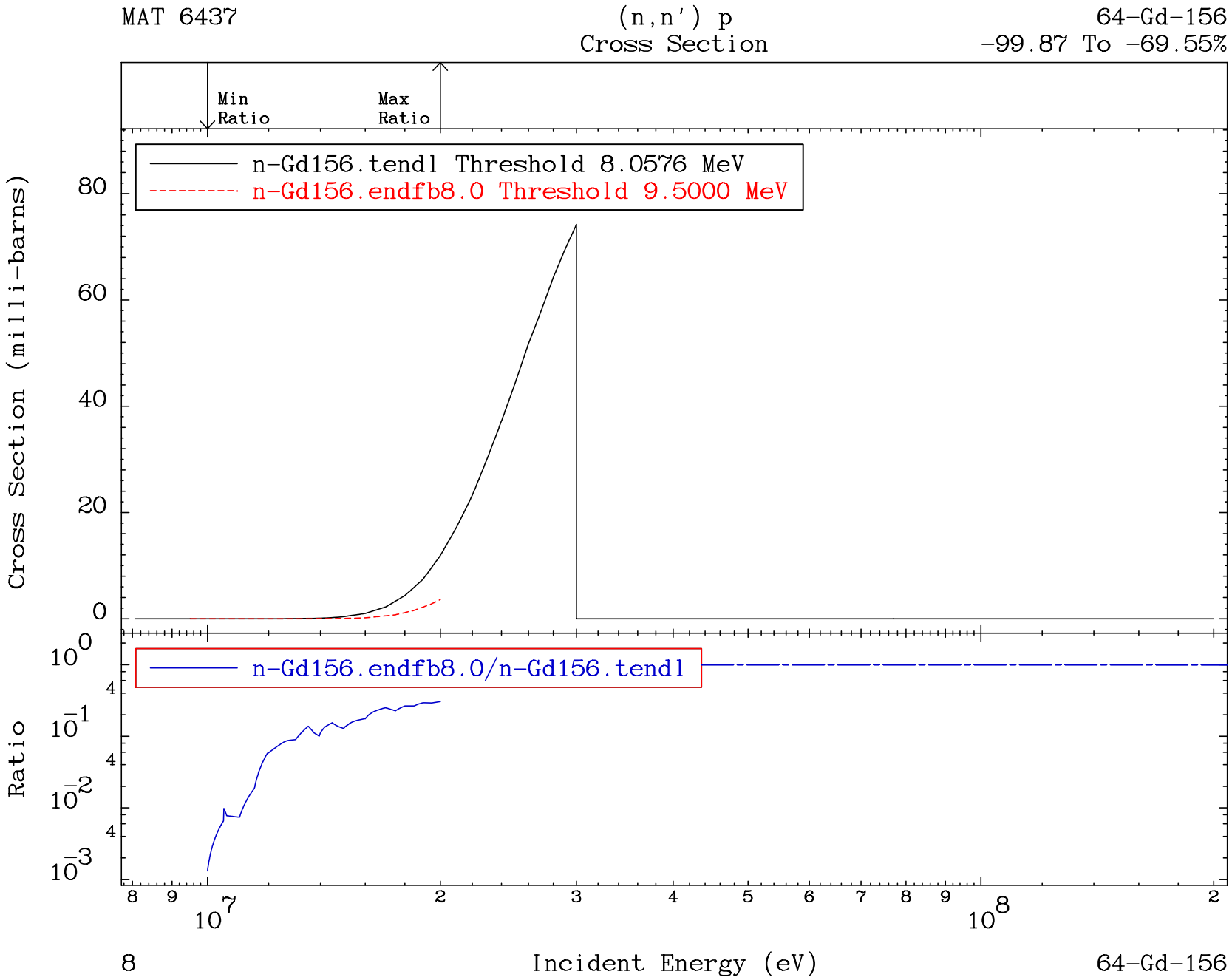

MAT 6437
Inelastic
Cross Section
64-Gd-156
-31.34 To 82.98 %
Max
Ratio
Min
Ratio
n-Gd156.tendl Threshold 89.546 keV
n-Gd156.endfb8.0 Threshold 89.546 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
2.0
1.6
1.2
0.8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
64-Gd-156

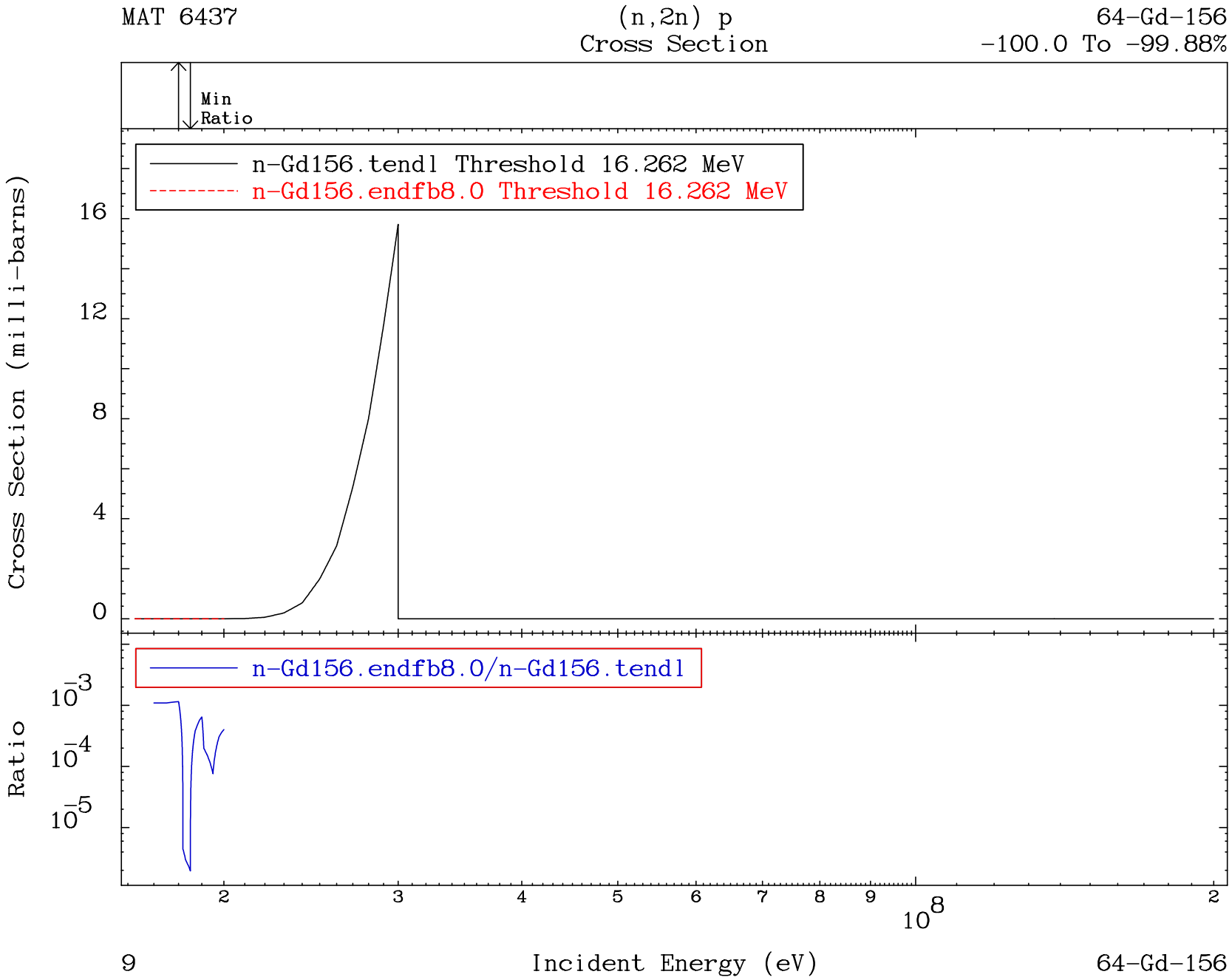

MAT 6437
(n,2n)
Cross Section
64-Gd-156
-80.06 To -2.188%
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 8.5916 MeV
n-Gd156.endfb8.0 Threshold 8.5916 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
1.2
0.8
0.4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
64-Gd-156

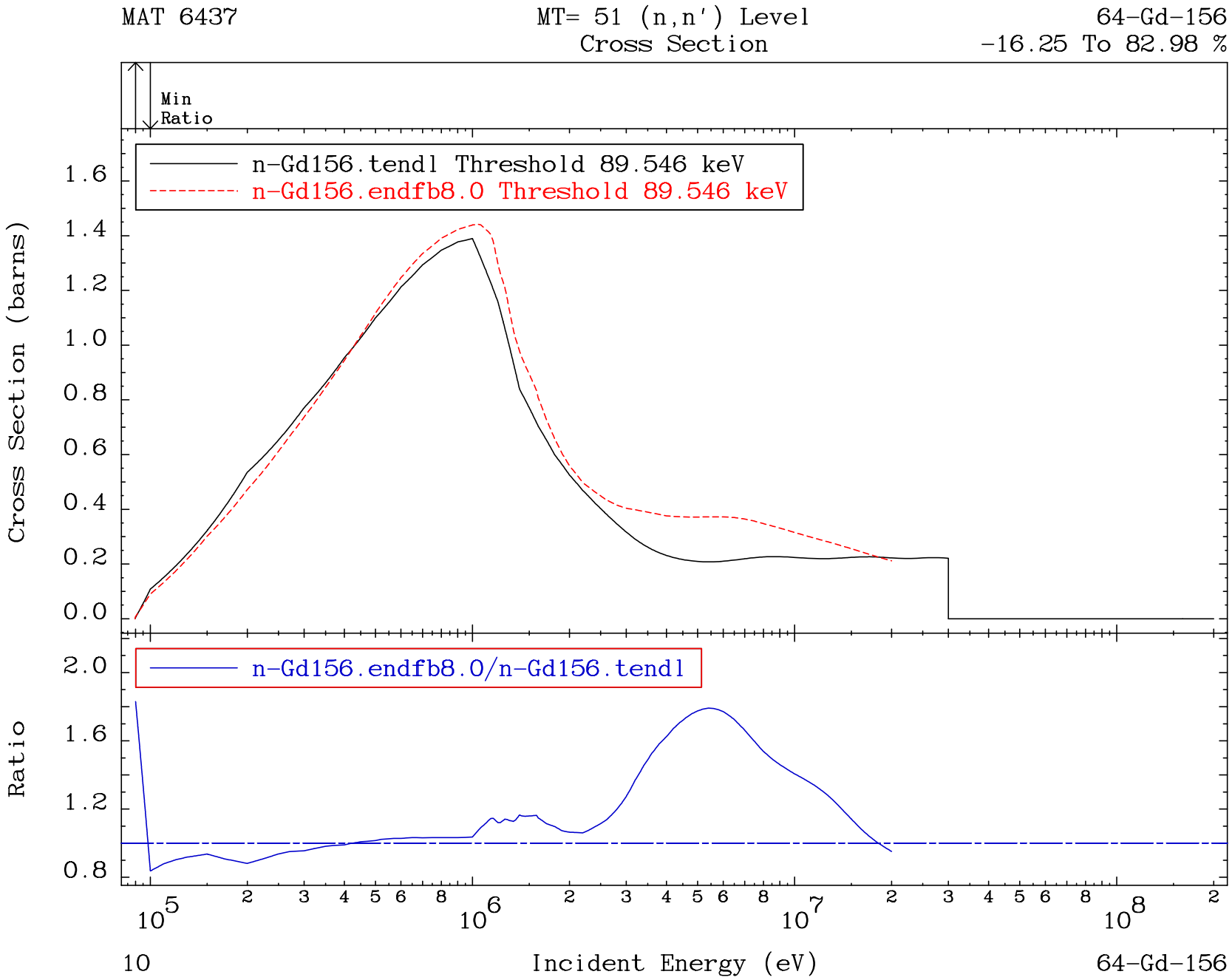

MAT 6437
(n,3n)
Cross Section
64-Gd-156
6.048 To 152.8 %
Min
Ratio
n-Gd156.tendl Threshold 15.069 MeV
n-Gd156.endfb8.0 Threshold 15.069 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
2.5
2.0
1.5
1.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
64-Gd-156

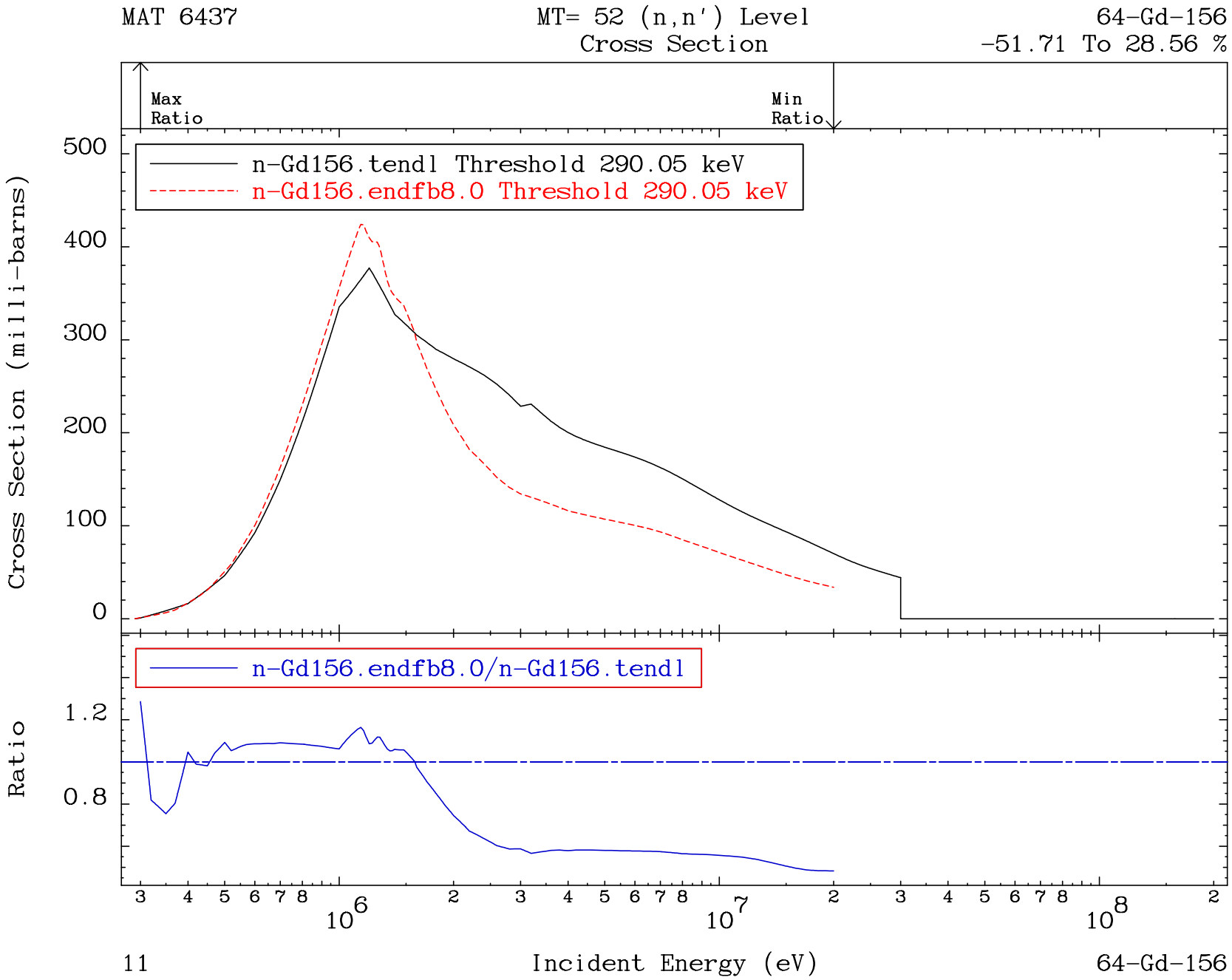

MAT 6437
(n,n') α
Cross Section
64-Gd-156
-95.80 To 105.0 %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 198.50 keV
n-Gd156.endfb8.0 Threshold 6.5000 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^0
10^-1
2 3 4 5 6 7 8
10^6
10^7
10^8
6
Incident Energy (eV)
64-Gd-156

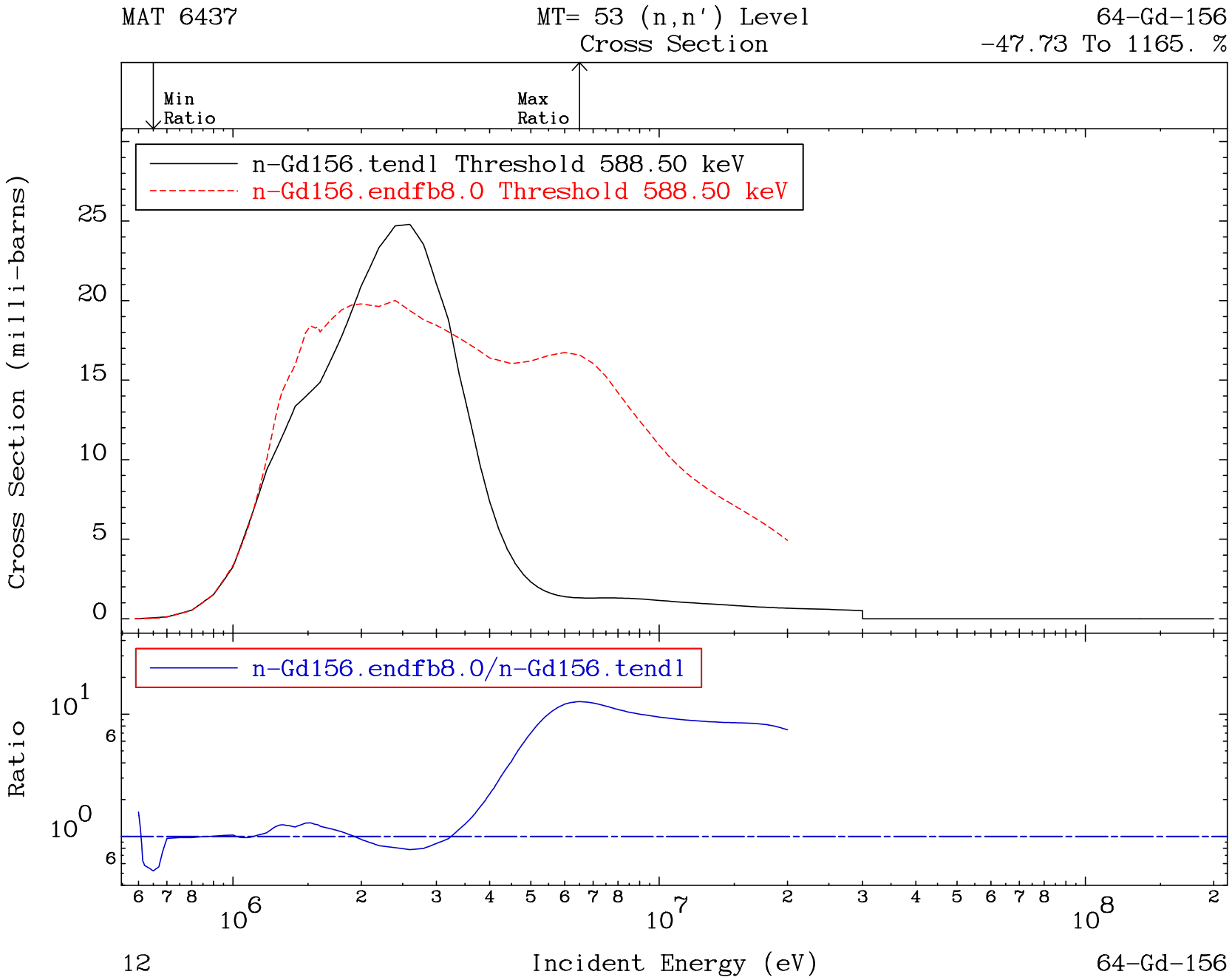

MAT 6437
(n,2n) α
Cross Section
64-Gd-156
-63.74 To 131.8 %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 8.5096 MeV
n-Gd156.endfb8.0 Threshold 15.000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
1.0
2.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
64-Gd-156

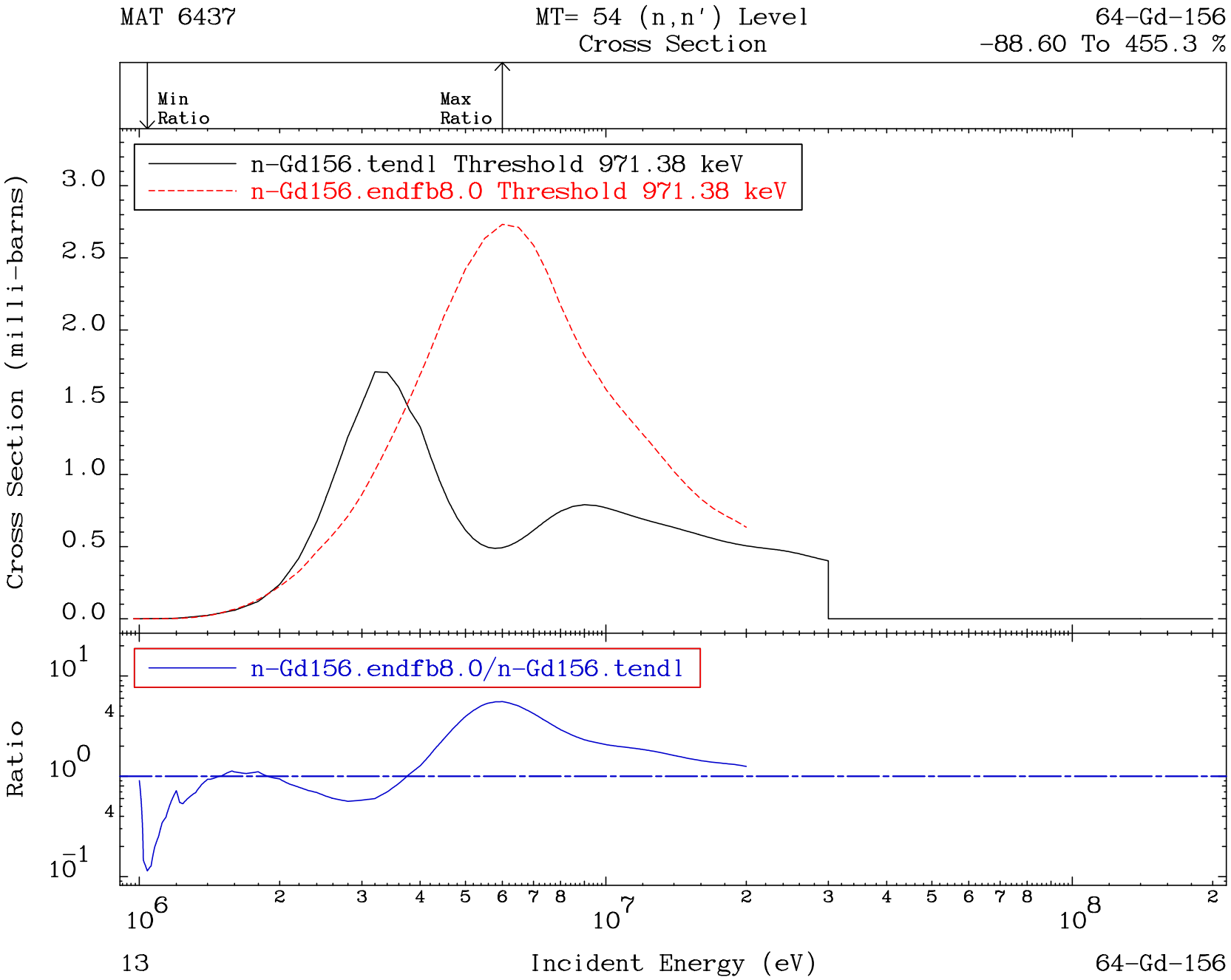

MAT 6437
(n,n') p
Cross Section
64-Gd-156
-99.87 To -69.55%
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 8.0576 MeV
n-Gd156.endfb8.0 Threshold 9.5000 MeV
Cross Section (milli-barns)
0
20
40
60
80
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^0
10^-1
10^-2
10^-3
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
64-Gd-156

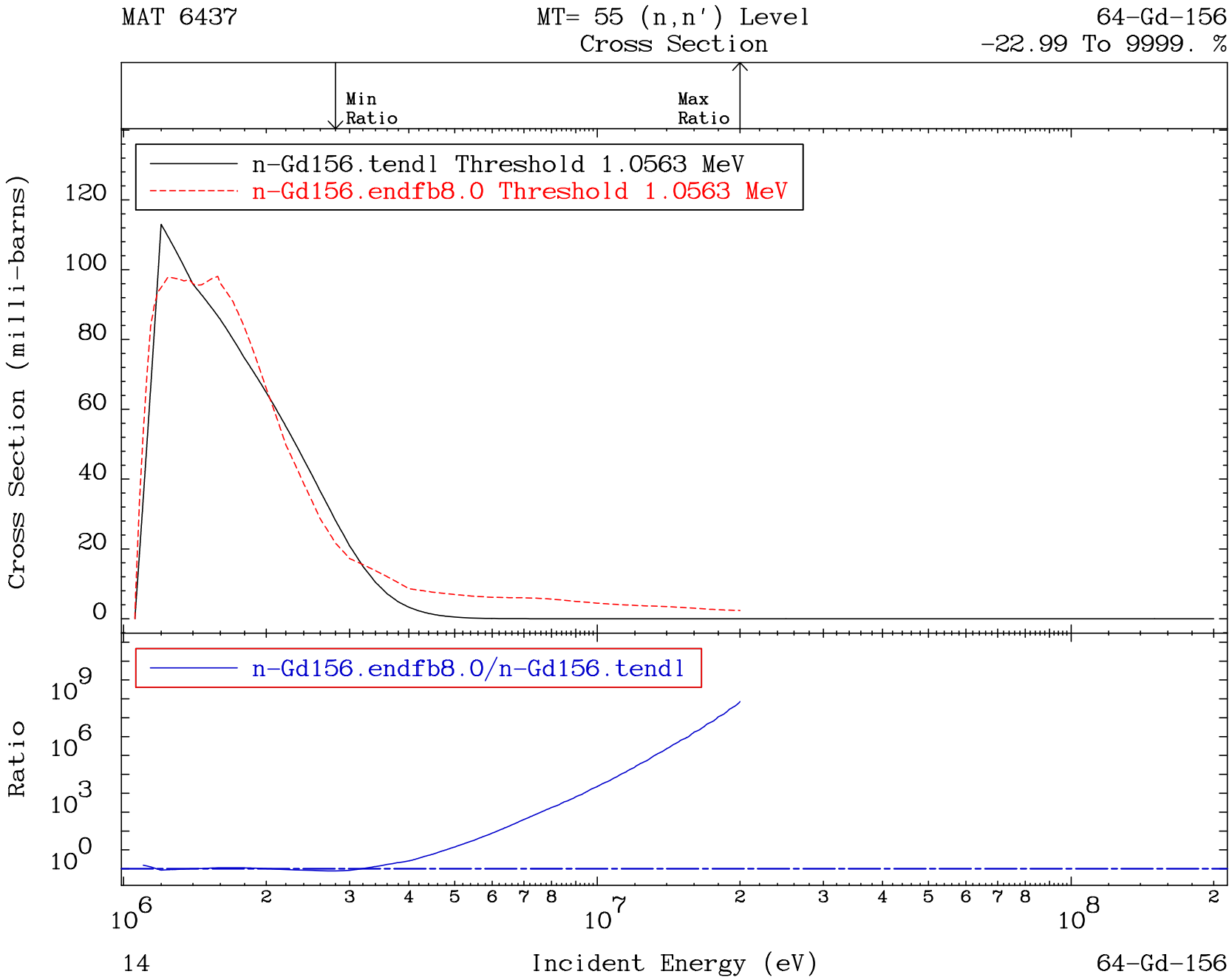

MAT 6437
(n,2n) p
Cross Section
64-Gd-156
-100.0 To -99.88%
Min
Ratio
n-Gd156.tendl Threshold 16.262 MeV
n-Gd156.endfb8.0 Threshold 16.262 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10-3
10-4
10-5
2
3
4
5
6
7
8
9
10 8
2
9
Incident Energy (eV)
64-Gd-156

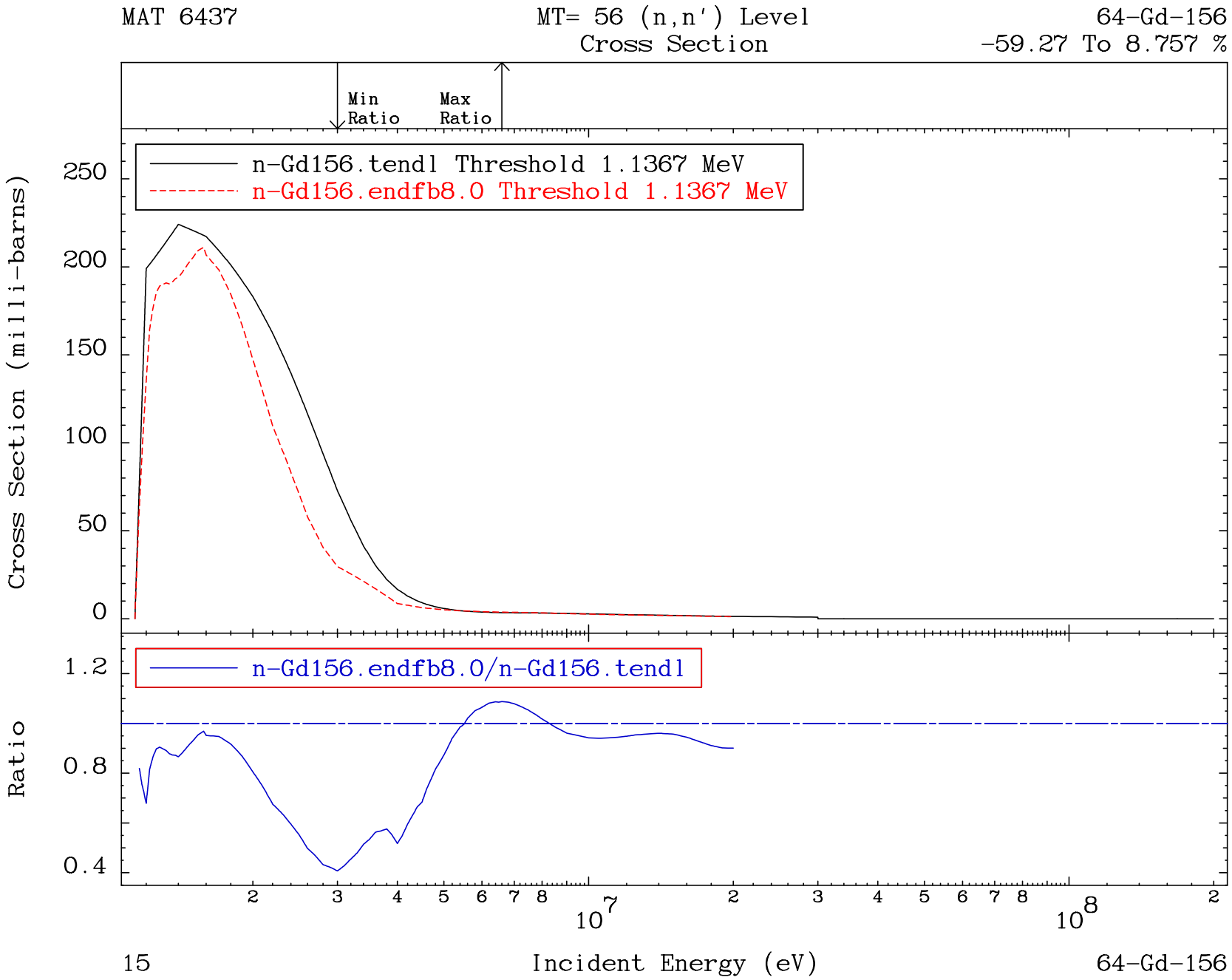

MAT 6437
MT= 51 (n,n') Level
Cross Section
64-Gd-156
-16.25 To 82.98 %
Min
Ratio
n-Gd156.tendl Threshold 89.546 keV
n-Gd156.endfb8.0 Threshold 89.546 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
2.0
1.6
1.2
0.8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
10
Incident Energy (eV)
64-Gd-156

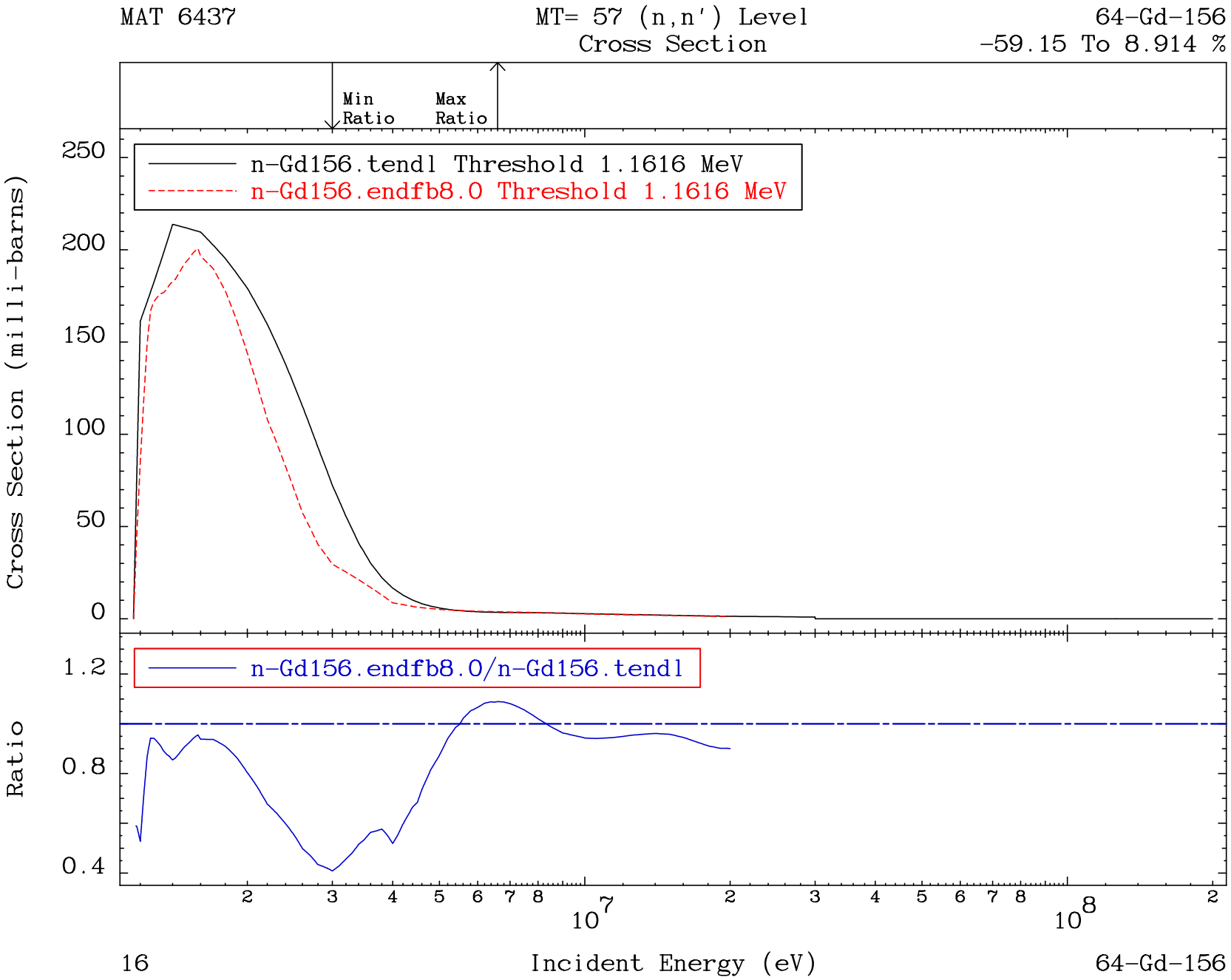

MAT 6437
MT= 52 (n,n') Level
Cross Section
64-Gd-156
-51.71 To 28.56 %
Max
Ratio
Min
Ratio
n-Gd156.tendl Threshold 290.05 keV
n-Gd156.endfb8.0 Threshold 290.05 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
1.2
0.8
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
64-Gd-156

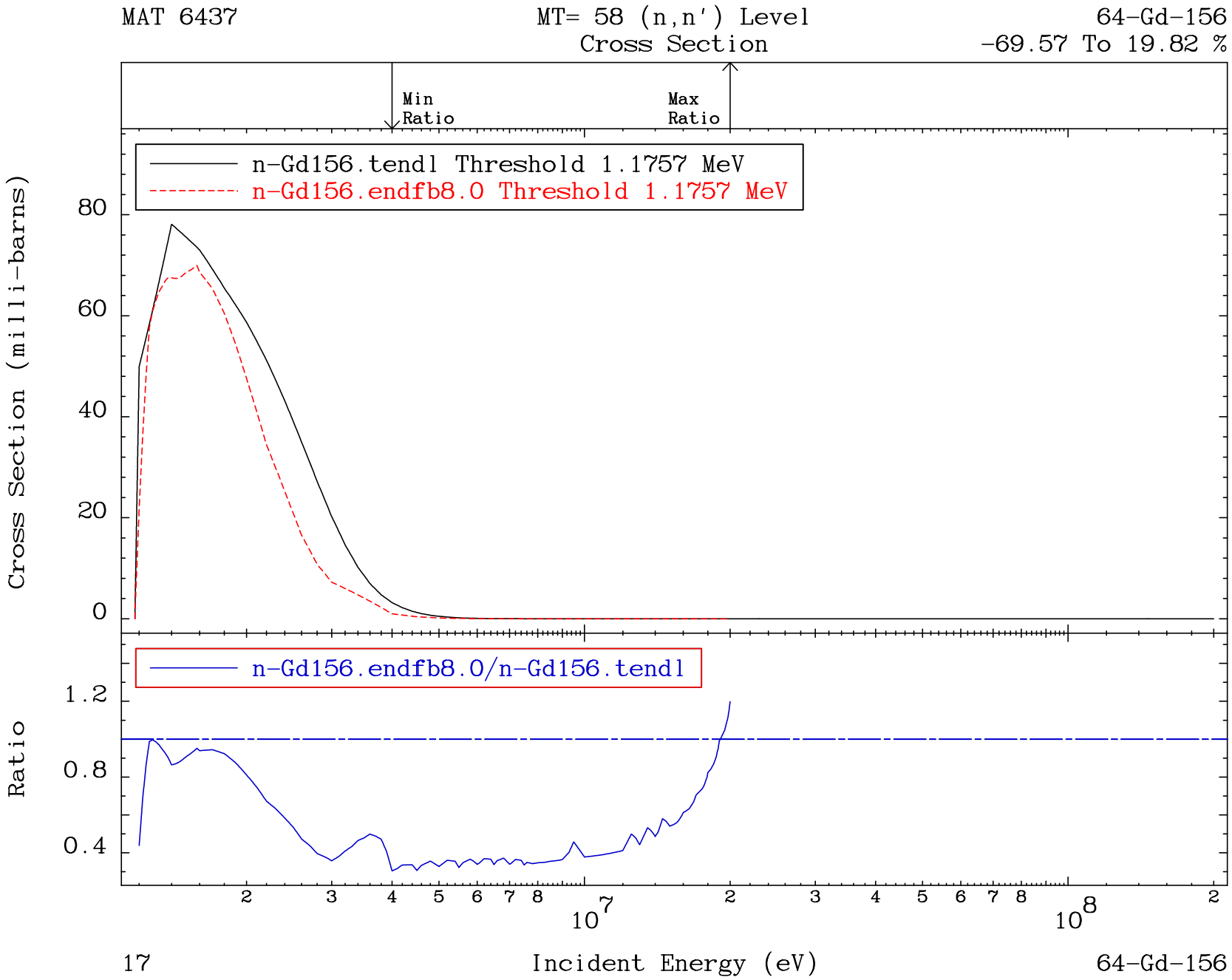

MAT 6437
MT= 53 (n,n') Level
Cross Section
64-Gd-156
-47.73 To 1165. %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 588.50 keV
n-Gd156.endfb8.0 Threshold 588.50 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^1
6
10^0
6
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
64-Gd-156

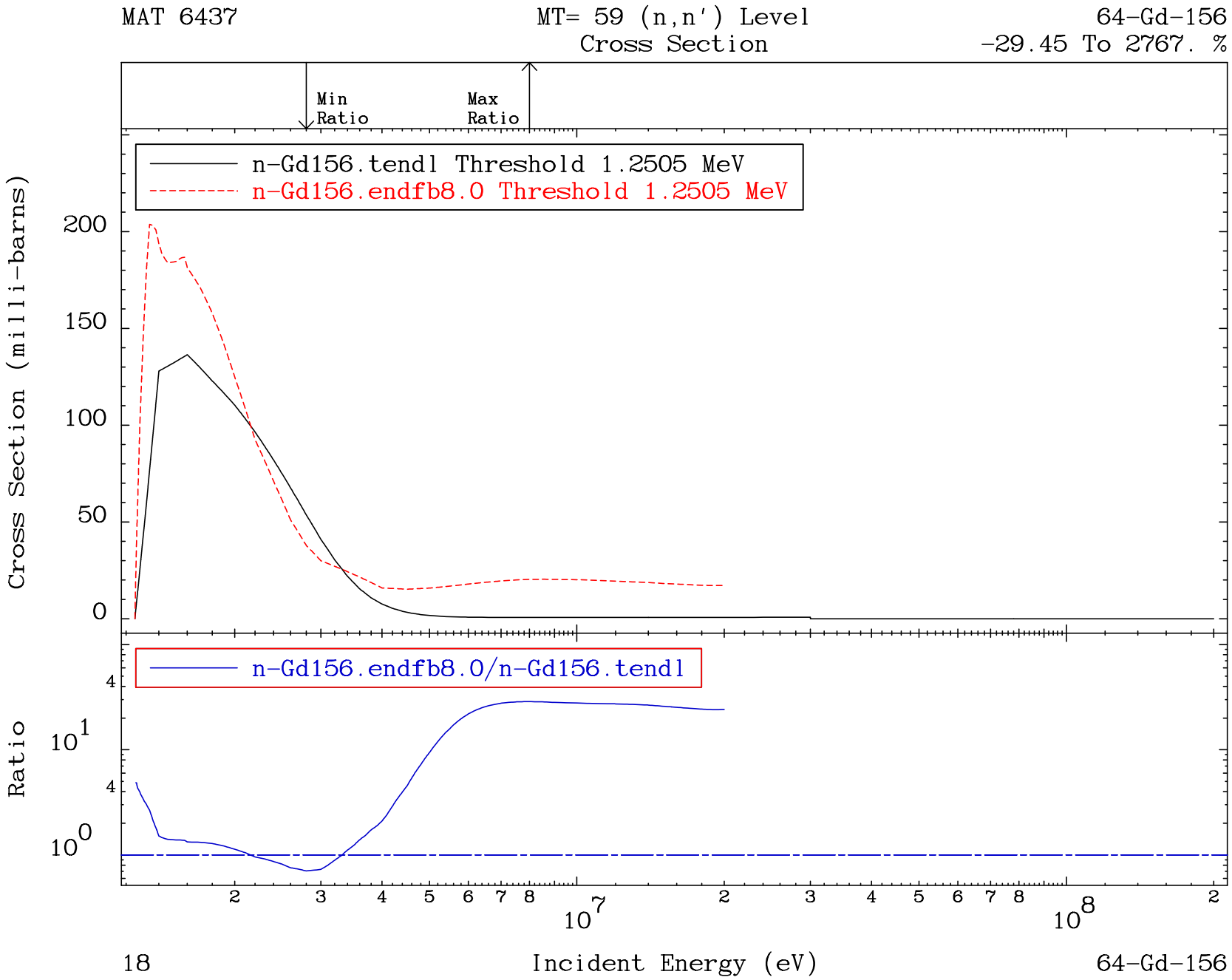

MAT 6437
MT= 54 (n,n') Level
Cross Section
64-Gd-156
-88.60 To 455.3 %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 971.38 keV
n-Gd156.endfb8.0 Threshold 971.38 keV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^1
10^0
10^-1
10^6
10^7
10^8
Incident Energy (eV)
13
64-Gd-156

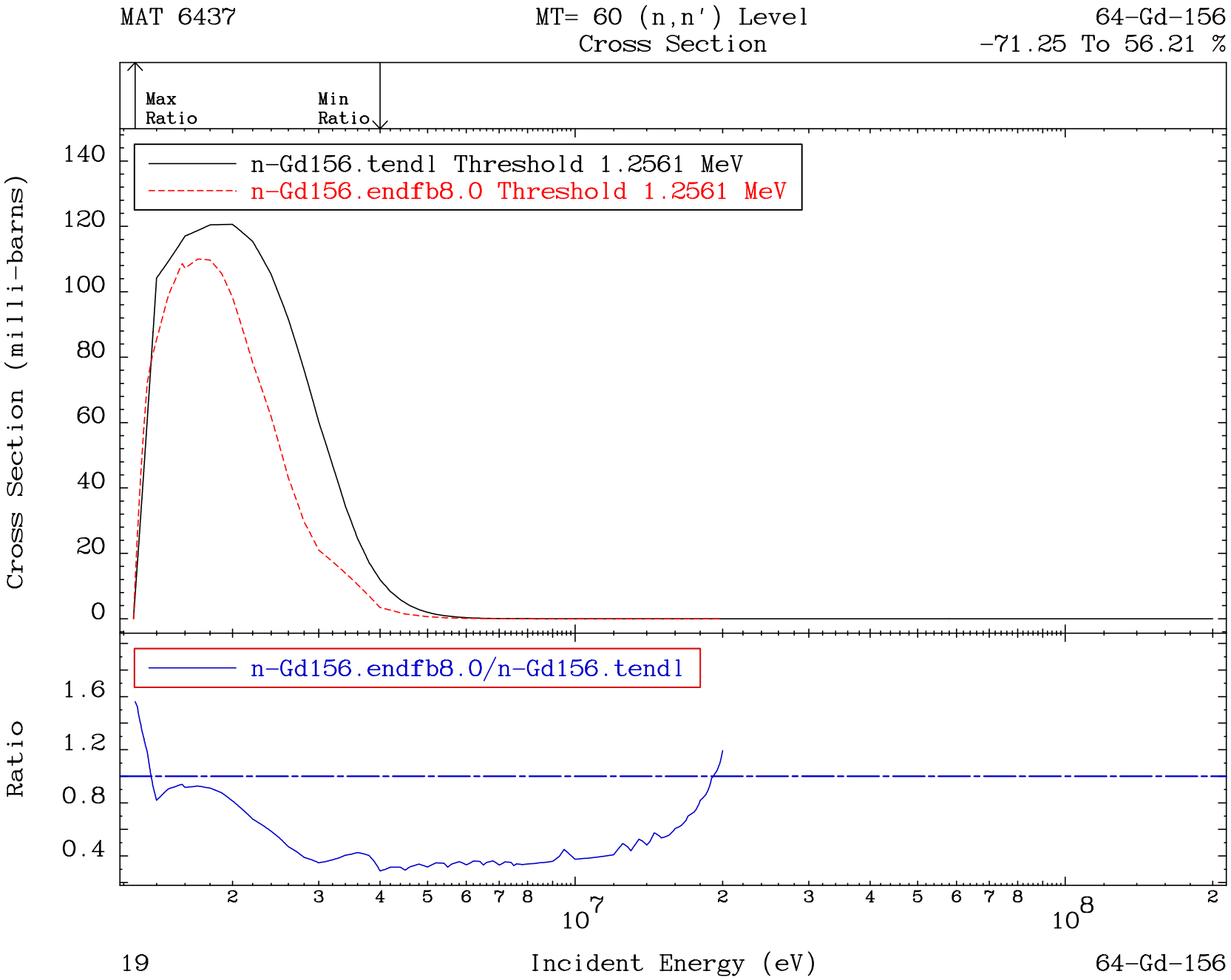

MAT 6437
MT= 55 (n,n') Level
Cross Section
64-Gd-156
-22.99 To 9999. %
Min
Ratio
Max
Ratio
n-Gd156.tendl Threshold 1.0563 MeV
n-Gd156.endfb8.0 Threshold 1.0563 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^9
10^6
10^3
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
64-Gd-156

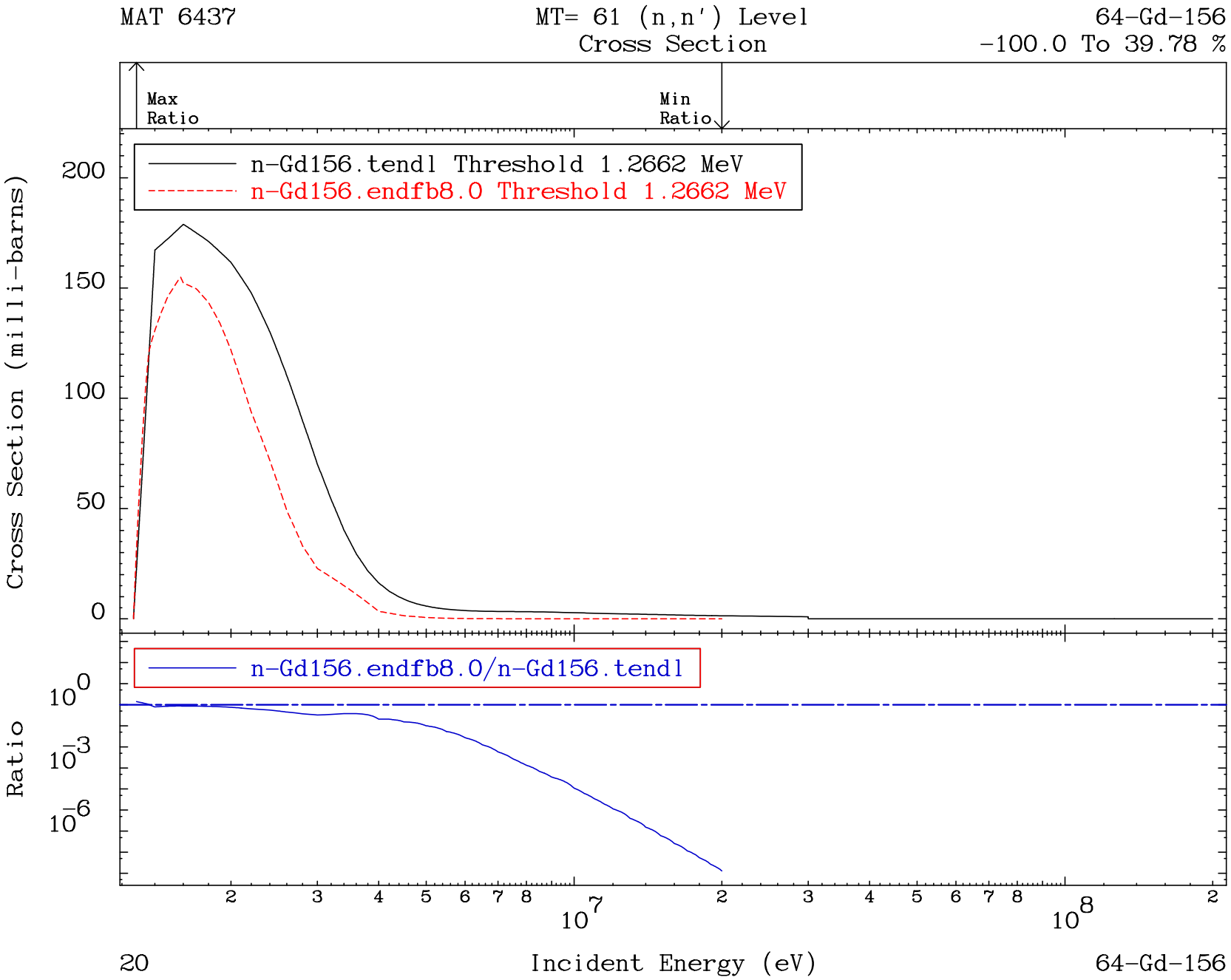

MAT 6437
MT= 56 (n,n') Level
Cross Section
64-Gd-156
-59.27 To 8.757 %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 1.1367 MeV
n-Gd156.endfb8.0 Threshold 1.1367 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
64-Gd-156

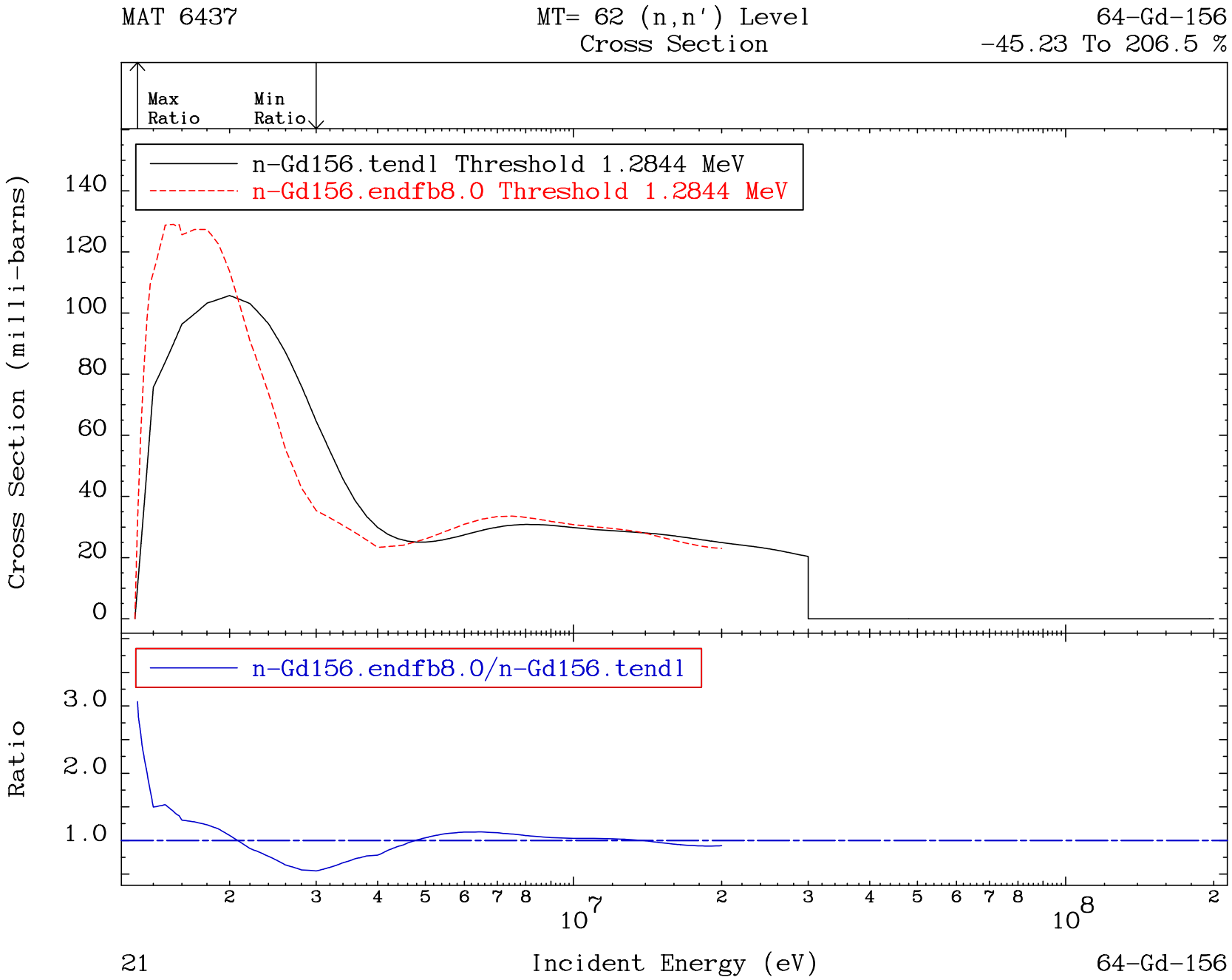

MAT 6437
MT= 57 (n,n') Level
Cross Section
64-Gd-156
-59.15 To 8.914 %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 1.1616 MeV
n-Gd156.endfb8.0 Threshold 1.1616 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
64-Gd-156

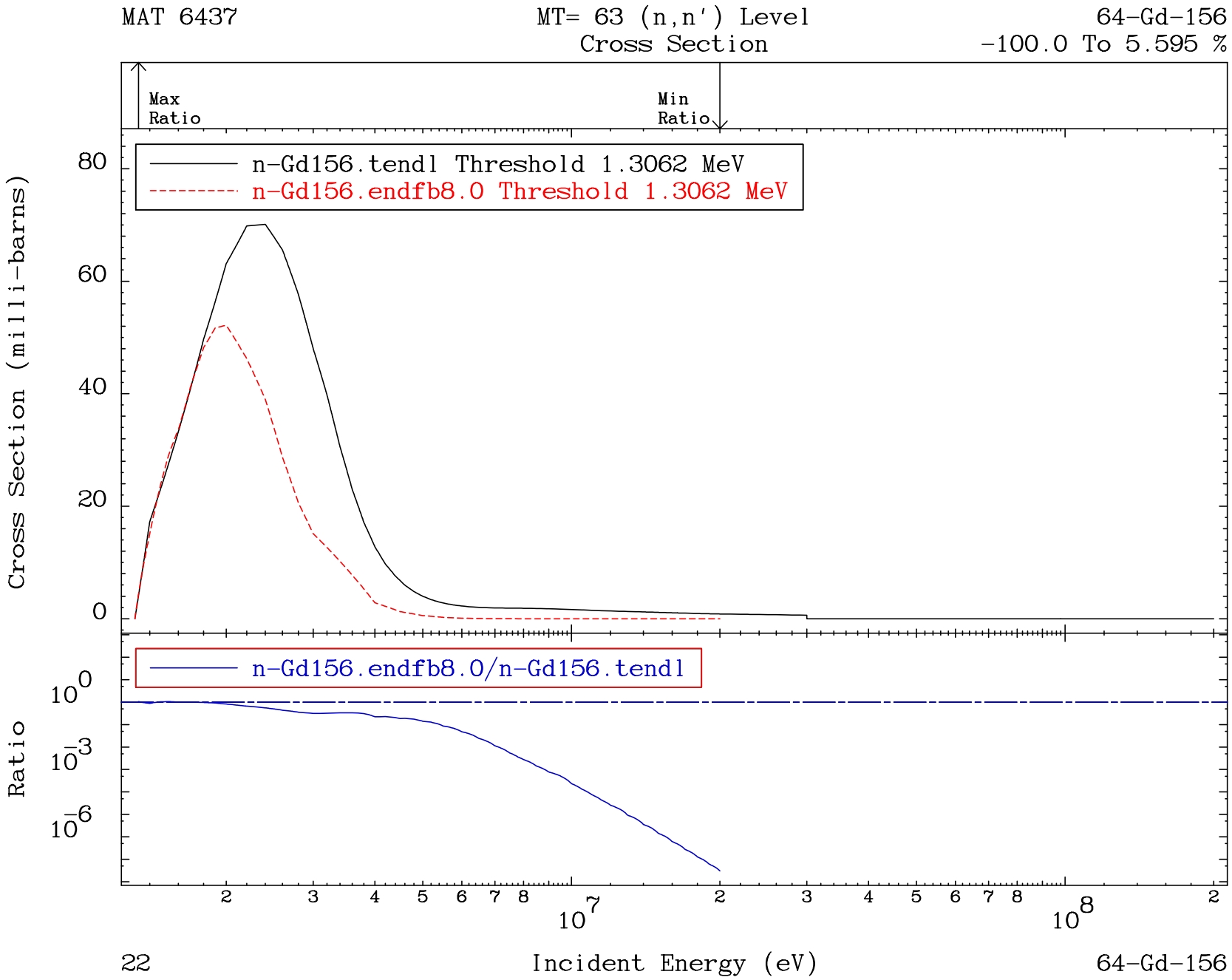

MAT 6437
MT= 58 (n,n') Level
Cross Section
64-Gd-156
-69.57 To 19.82 %
Min
Ratio
Max
Ratio
n-Gd156.tendl Threshold 1.1757 MeV
n-Gd156.endfb8.0 Threshold 1.1757 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
64-Gd-156

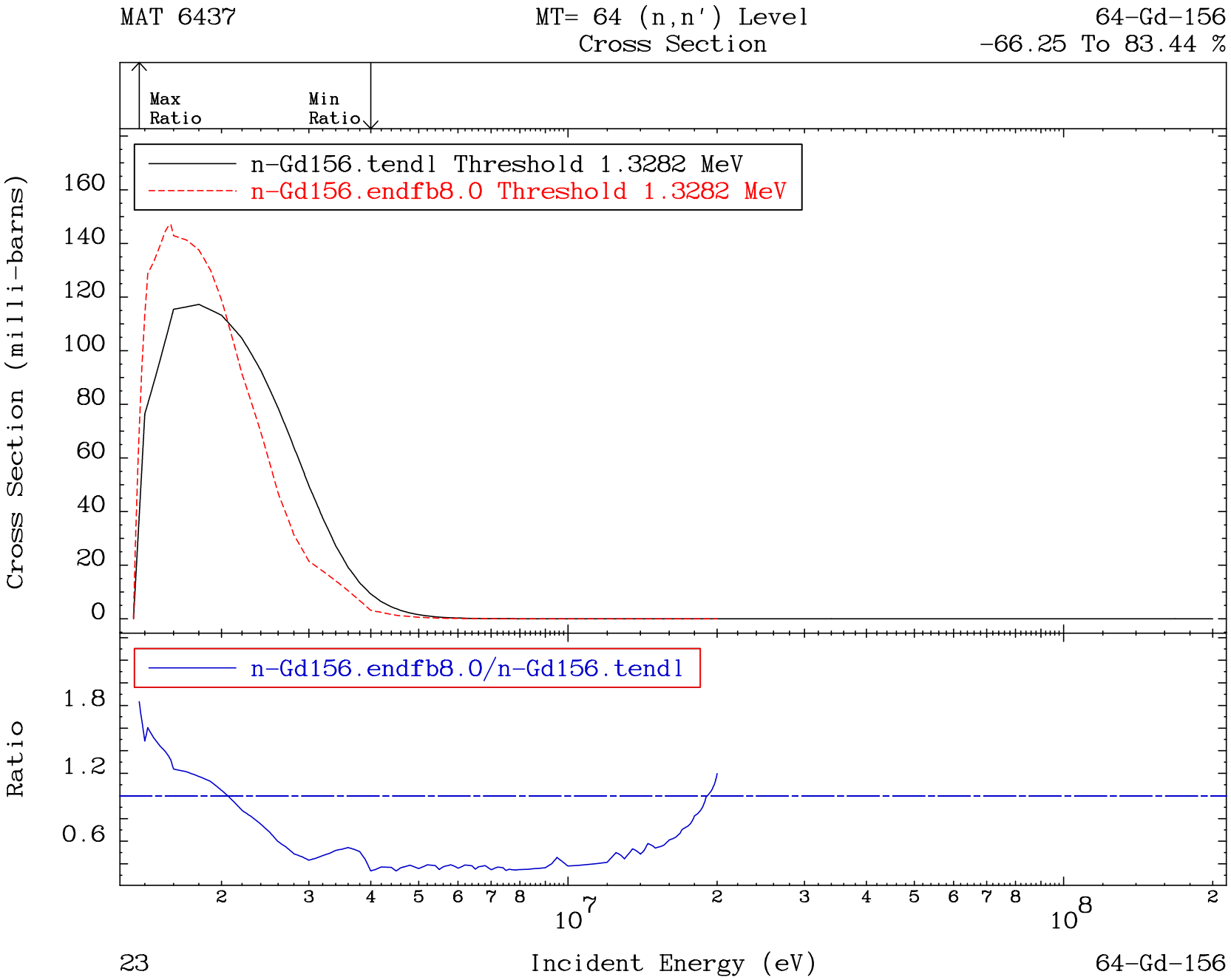

MAT 6437
MT= 59 (n,n') Level
Cross Section
64-Gd-156
-29.45 To 2767. %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 1.2505 MeV
n-Gd156.endfb8.0 Threshold 1.2505 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
4
10^1
4
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
64-Gd-156

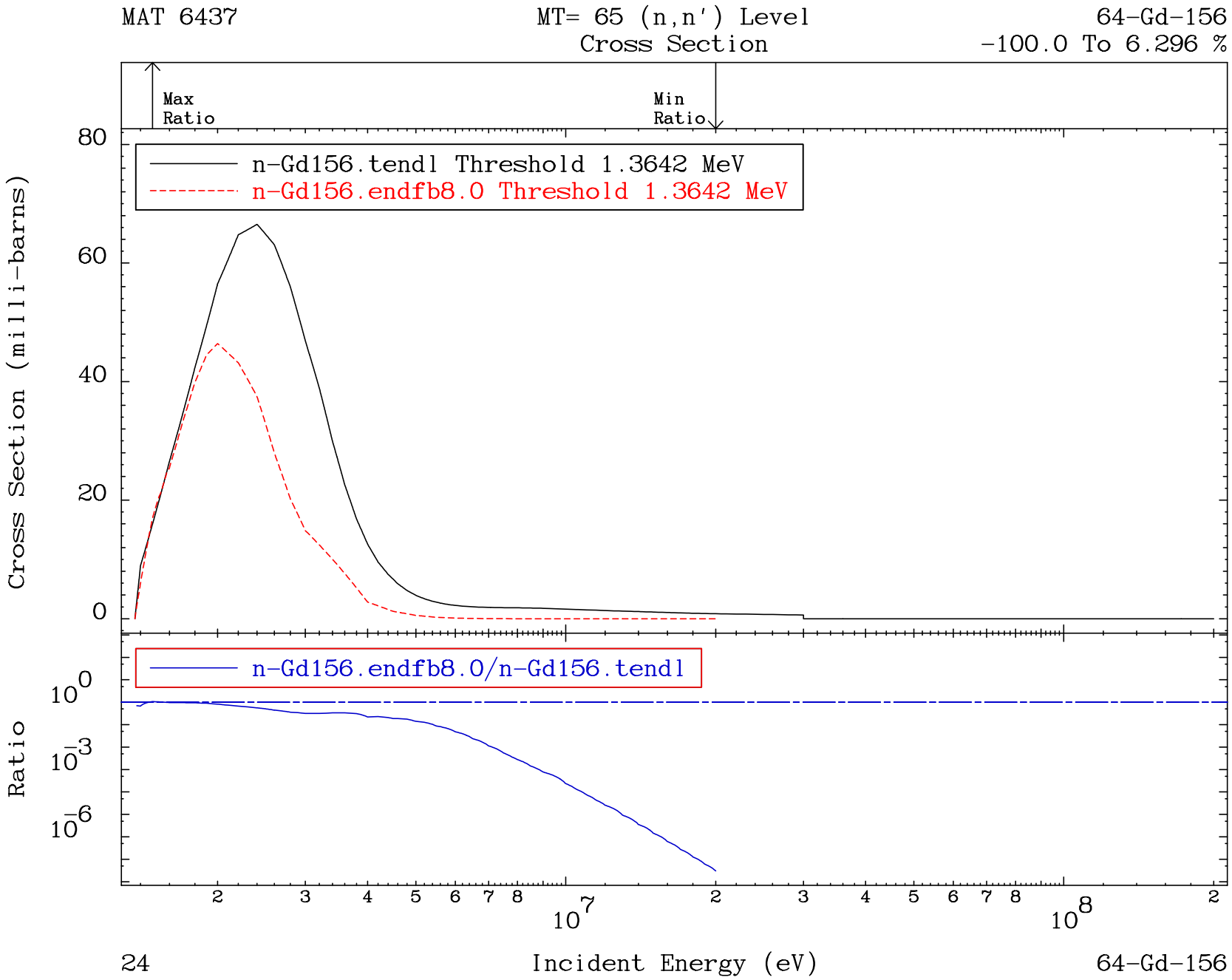

MAT 6437
MT= 60 (n,n') Level
Cross Section
64-Gd-156
-71.25 To 56.21 %
Max Ratio
Min Ratio
n-Gd156.tendl Threshold 1.2561 MeV
n-Gd156.endfb8.0 Threshold 1.2561 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
1.6
1.2
0.8
0.4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
64-Gd-156

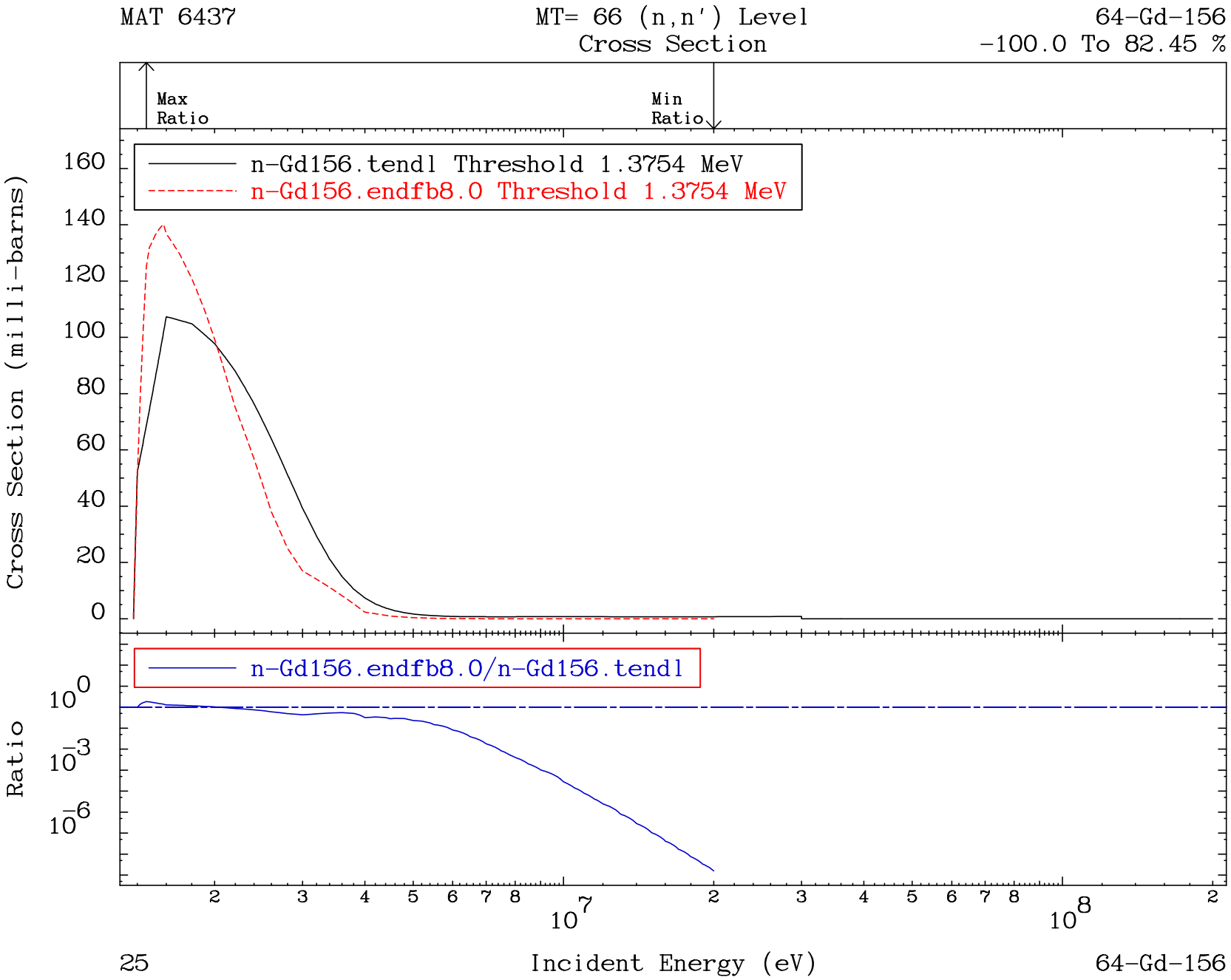

MAT 6437
MT= 61 (n,n') Level
Cross Section
64-Gd-156
-100.0 To 39.78 %
Max
Ratio
Min
Ratio
n-Gd156.tendl Threshold 1.2662 MeV
n-Gd156.endfb8.0 Threshold 1.2662 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
64-Gd-156

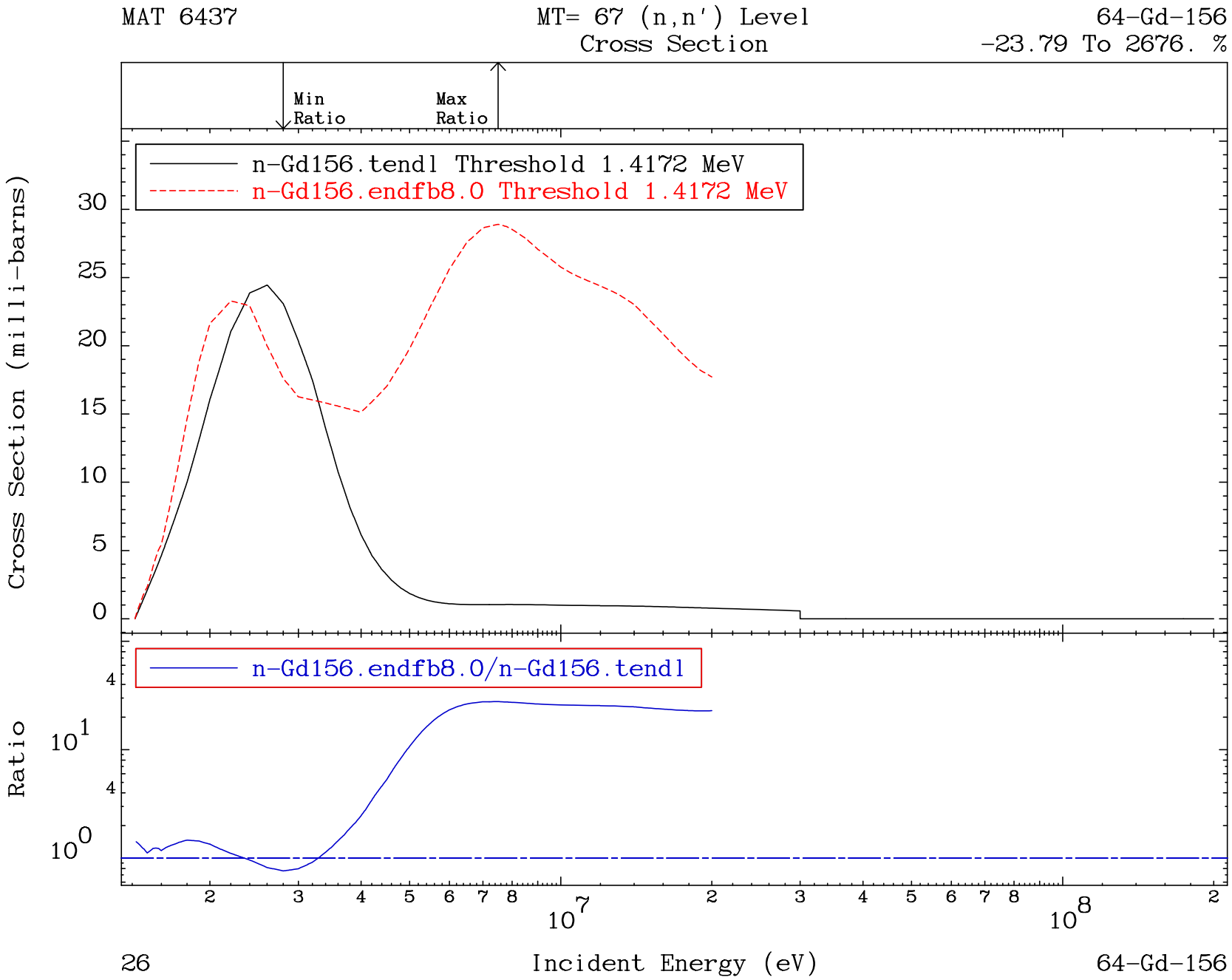

MAT 6437
MT= 62 (n,n') Level
Cross Section
64-Gd-156
-45.23 To 206.5 %
Max Ratio
Min Ratio
n-Gd156.tendl Threshold 1.2844 MeV
n-Gd156.endfb8.0 Threshold 1.2844 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
64-Gd-156

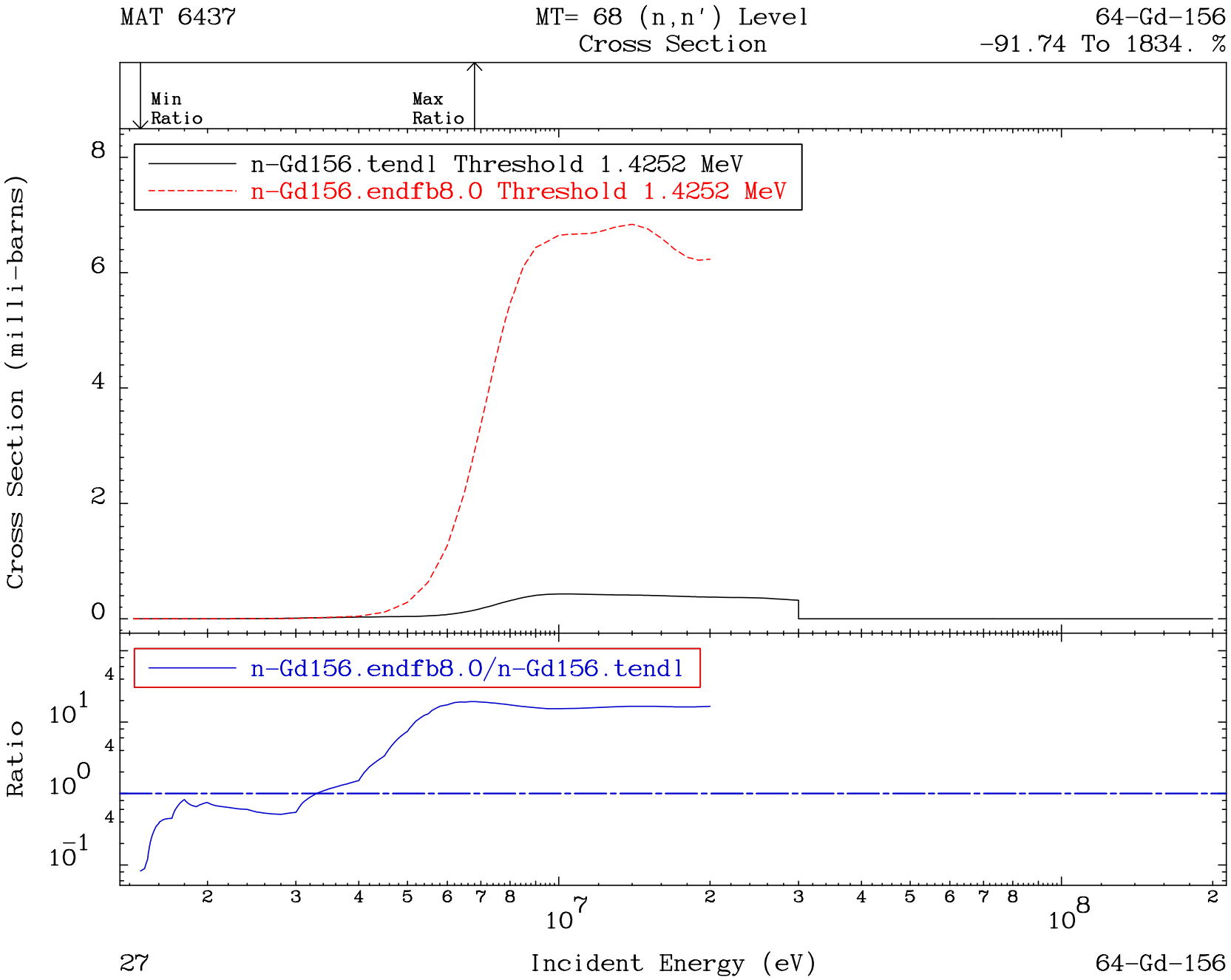

MAT 6437
MT= 63 (n,n') Level
Cross Section
64-Gd-156
-100.0 To 5.595 %
Max
Ratio
Min
Ratio
n-Gd156.tendl Threshold 1.3062 MeV
n-Gd156.endfb8.0 Threshold 1.3062 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
64-Gd-156

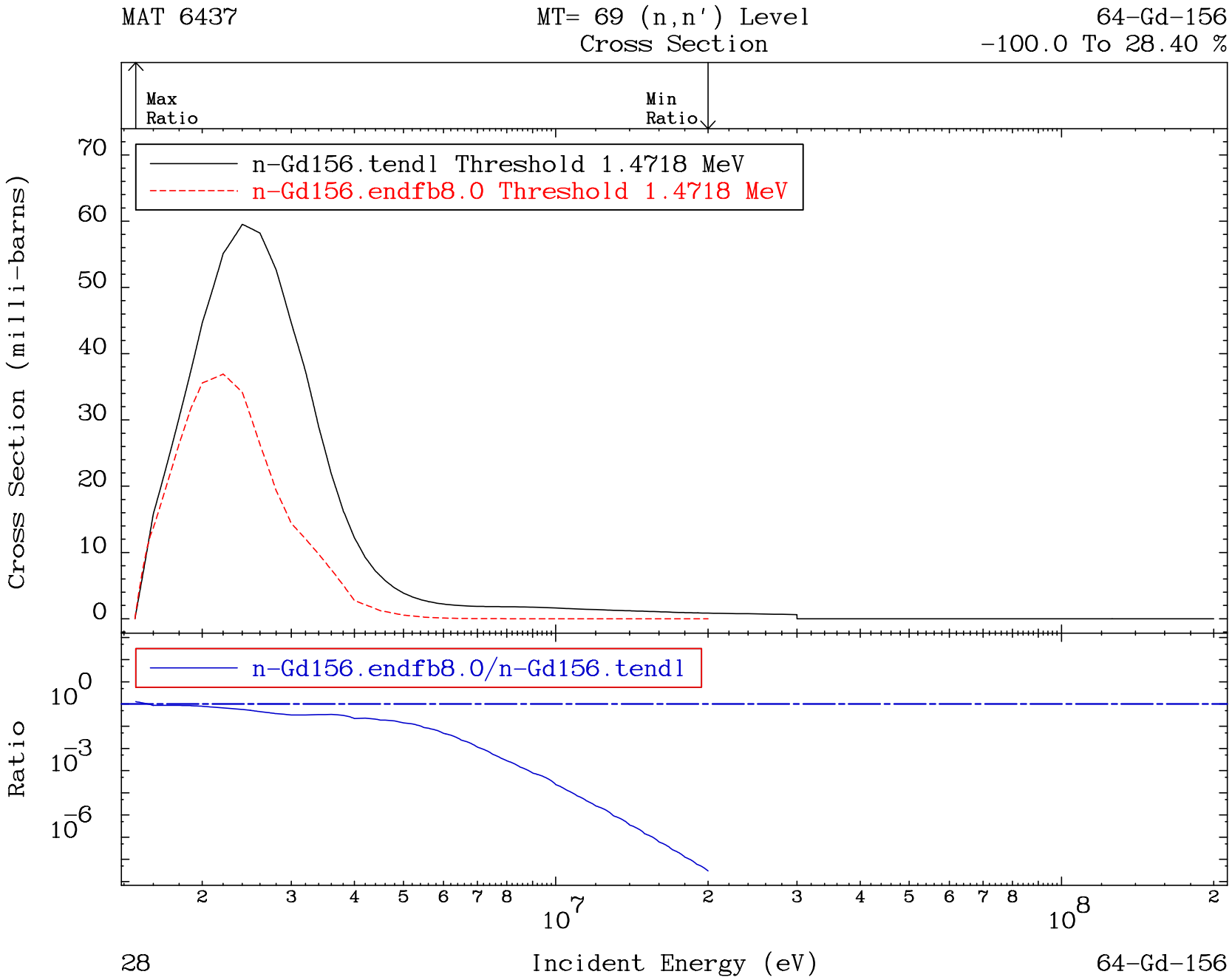

MAT 6437
MT= 64 (n,n') Level
Cross Section
64-Gd-156
-66.25 To 83.44 %
Max Ratio
Min Ratio
n-Gd156.tendl Threshold 1.3282 MeV
n-Gd156.endfb8.0 Threshold 1.3282 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
1.8
1.2
0.6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
23
Incident Energy (eV)
64-Gd-156

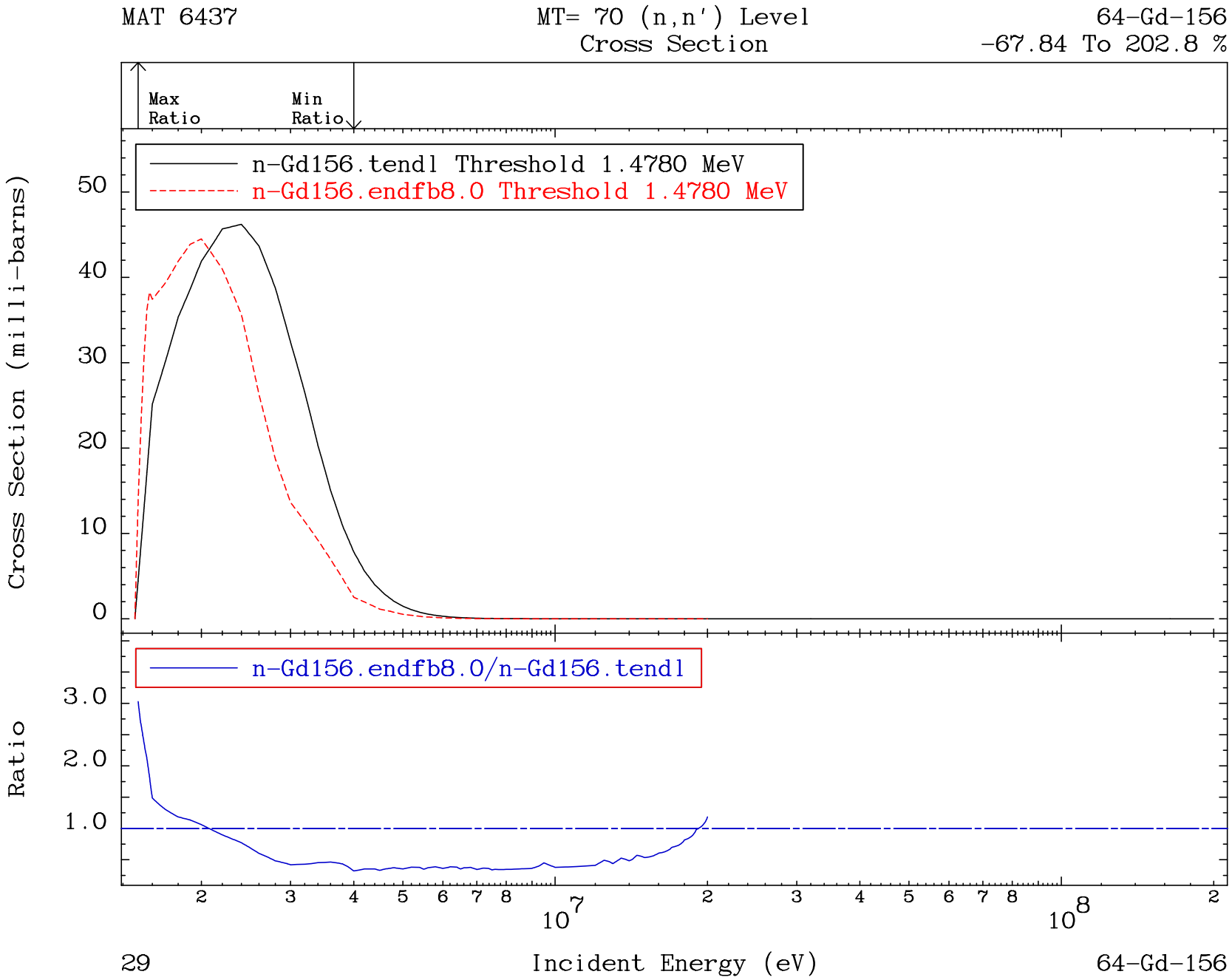

MAT 6437
MT= 65 (n,n') Level
Cross Section
64-Gd-156
-100.0 To 6.296 %
Max Ratio
Min Ratio
n-Gd156.tendl Threshold 1.3642 MeV
n-Gd156.endfb8.0 Threshold 1.3642 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
64-Gd-156

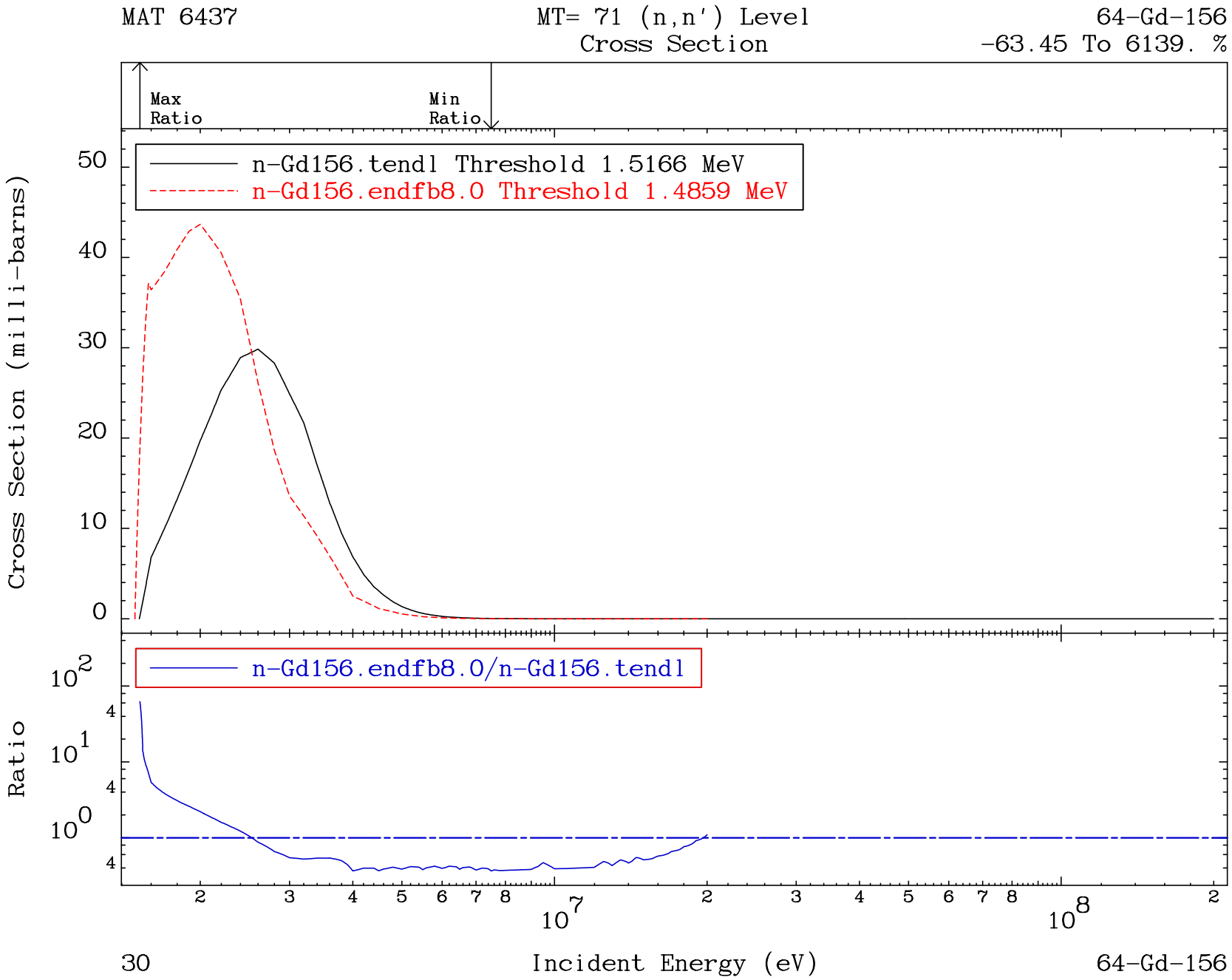

MAT 6437
MT= 66 (n,n') Level
Cross Section
64-Gd-156
-100.0 To 82.45 %
Max Ratio
Min Ratio
n-Gd156.tendl Threshold 1.3754 MeV
n-Gd156.endfb8.0 Threshold 1.3754 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
64-Gd-156

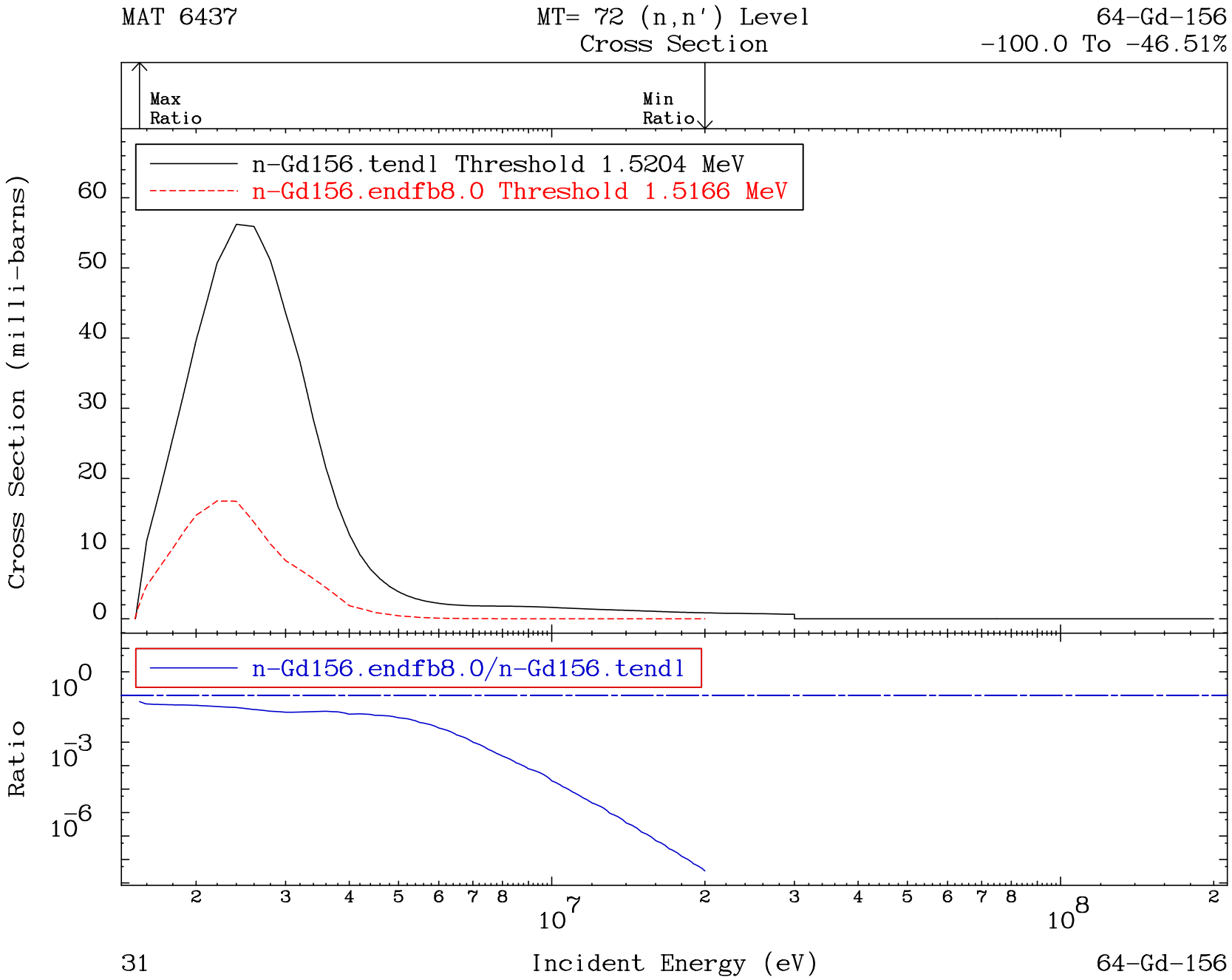

MAT 6437
MT= 67 (n,n') Level
Cross Section
64-Gd-156
-23.79 To 2676. %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 1.4172 MeV
n-Gd156.endfb8.0 Threshold 1.4172 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^1
4
10^0
4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
64-Gd-156

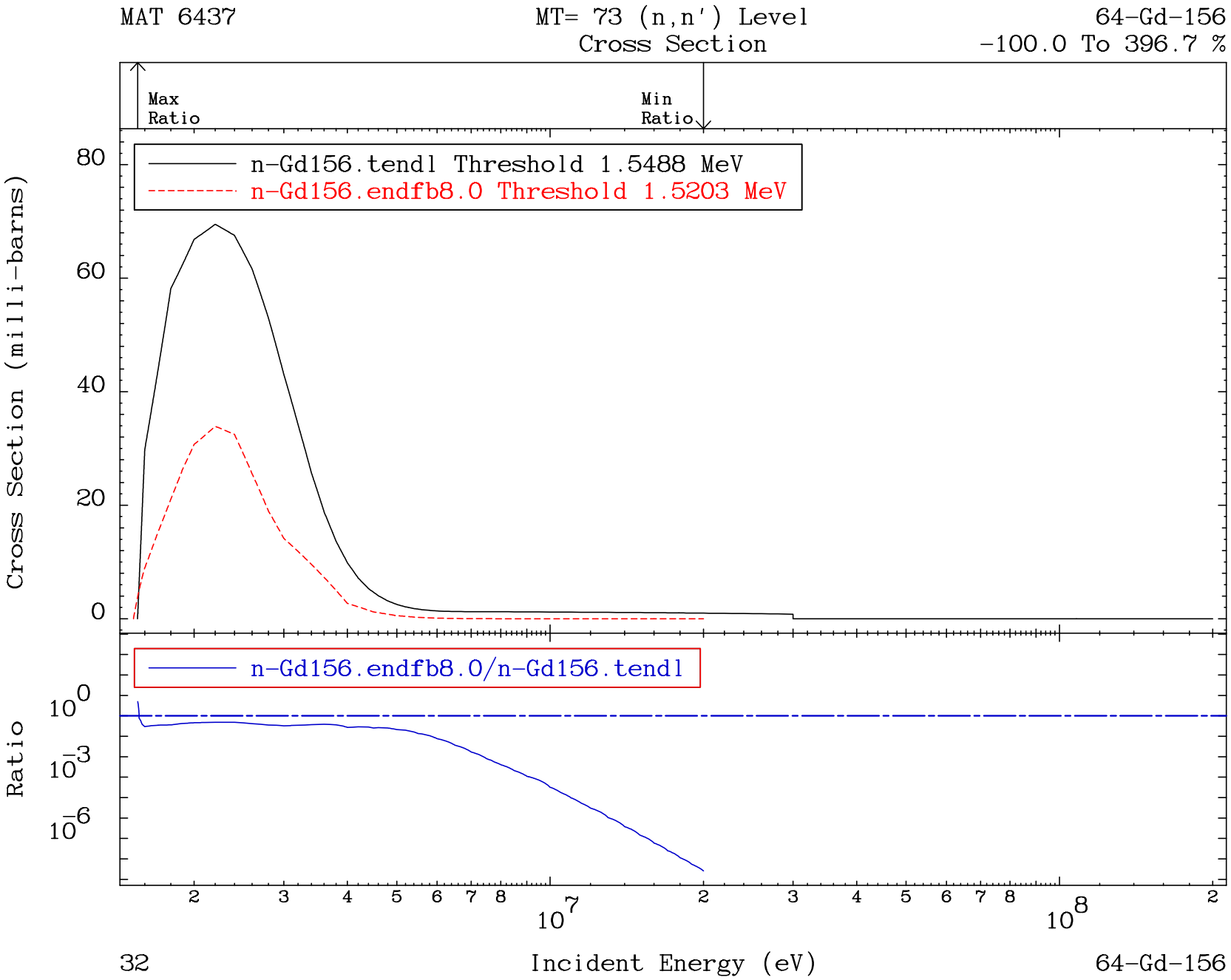

MAT 6437
MT= 68 (n,n') Level
Cross Section
64-Gd-156
-91.74 To 1834. %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 1.4252 MeV
n-Gd156.endfb8.0 Threshold 1.4252 MeV
Cross Section (milli-barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
Incident Energy (eV)
27
64-Gd-156

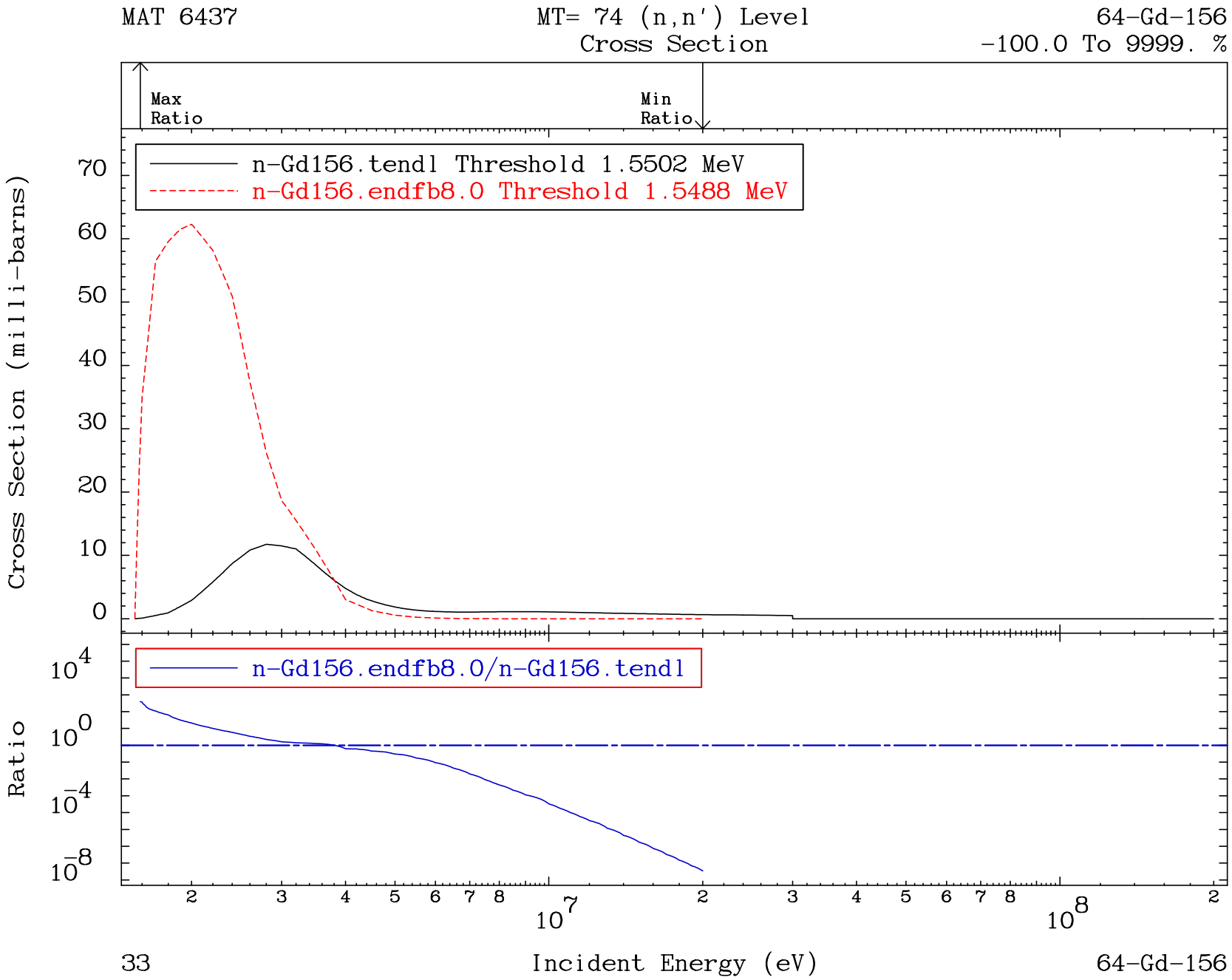

MAT 6437
MT= 69 (n,n') Level
Cross Section
64-Gd-156
-100.0 To 28.40 %
Max
Ratio
Min
Ratio
n-Gd156.tendl Threshold 1.4718 MeV
n-Gd156.endfb8.0 Threshold 1.4718 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
28
Incident Energy (eV)
64-Gd-156

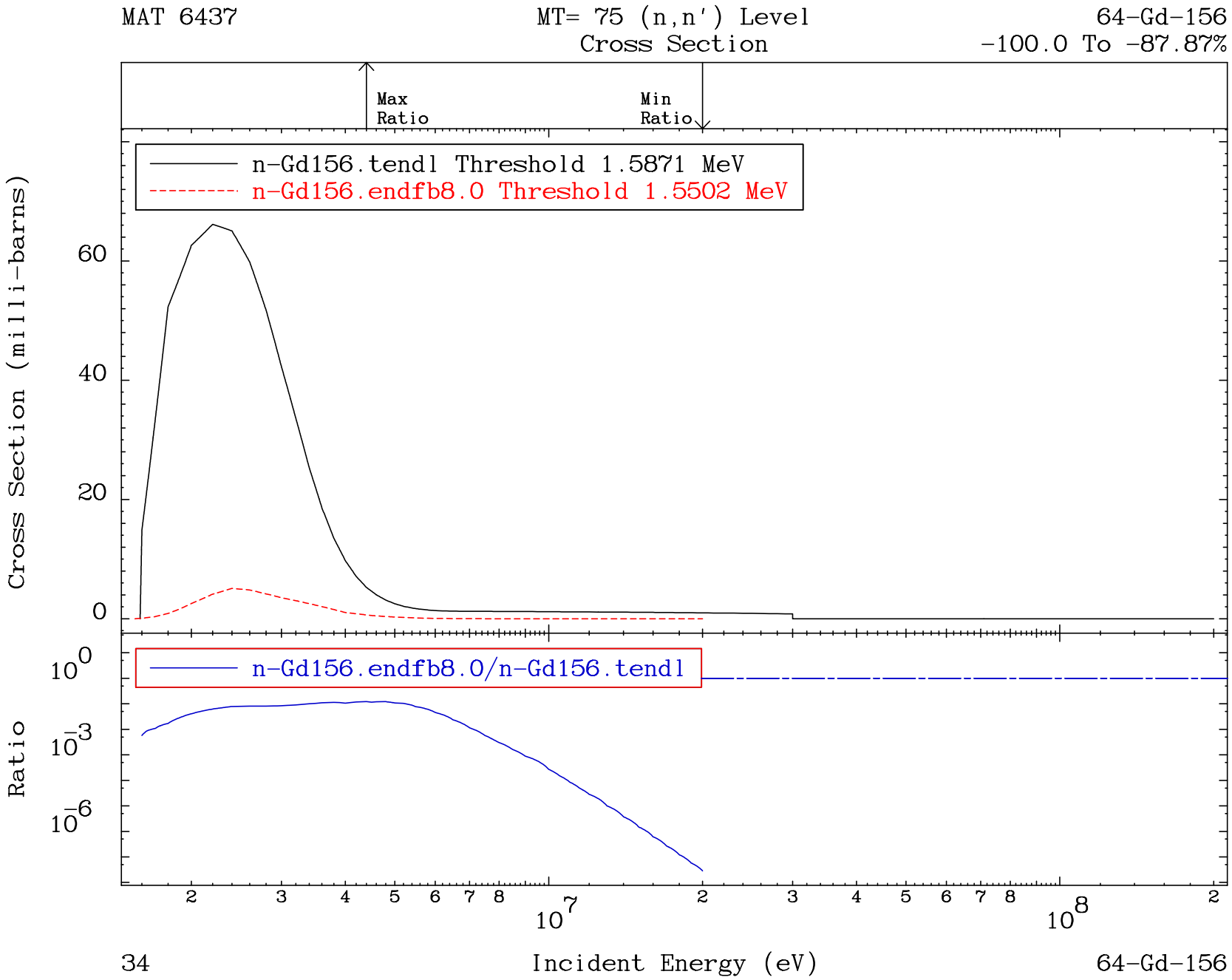

MAT 6437
MT= 70 (n,n') Level
Cross Section
64-Gd-156
-67.84 To 202.8 %
Max Ratio
Min Ratio
n-Gd156.tendl Threshold 1.4780 MeV
n-Gd156.endfb8.0 Threshold 1.4780 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
3.0
2.0
1.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
64-Gd-156

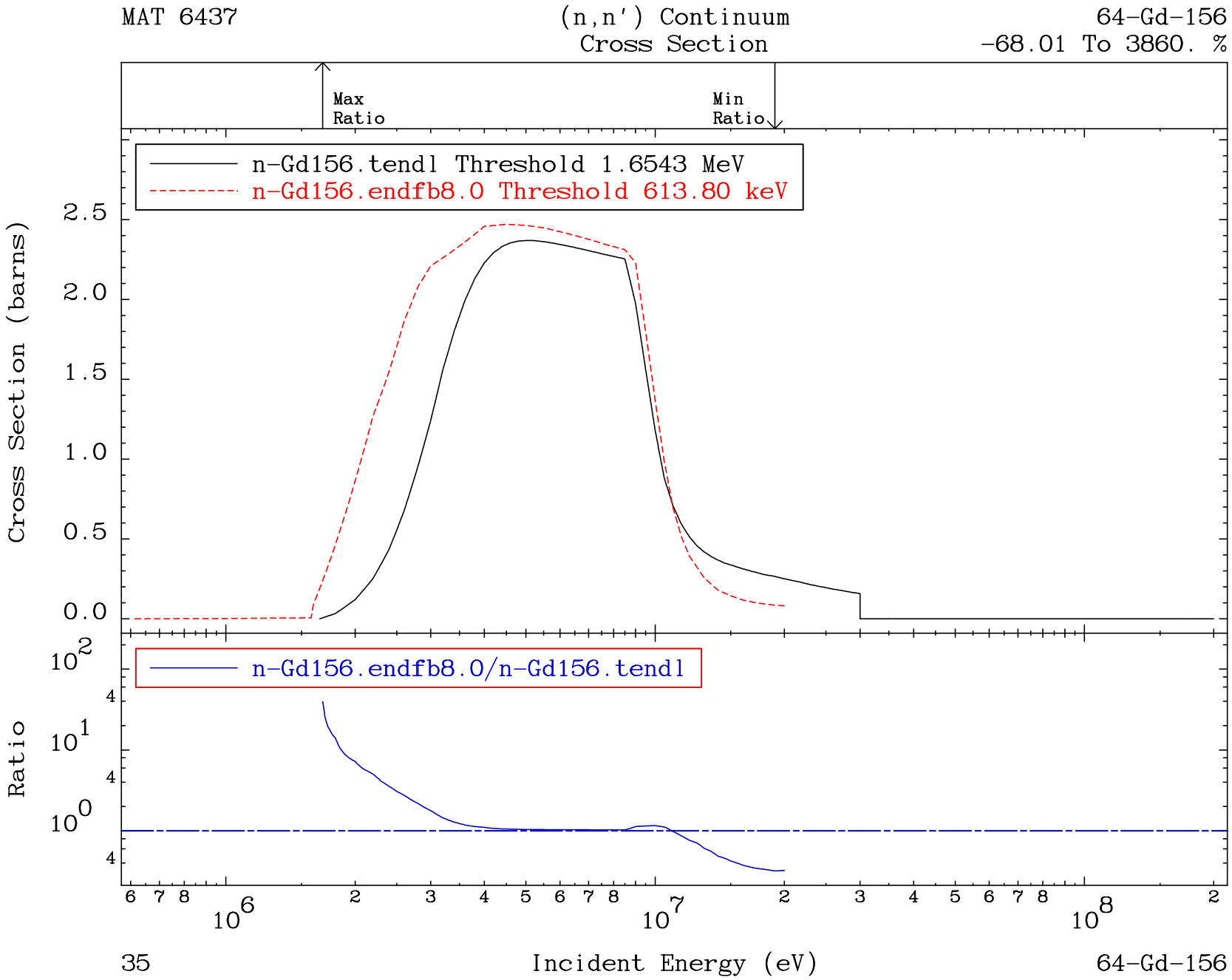

MAT 6437
MT= 71 (n,n') Level
Cross Section
64-Gd-156
-63.45 To 6139. %
Max Ratio
Min Ratio
n-Gd156.tendl Threshold 1.5166 MeV
n-Gd156.endfb8.0 Threshold 1.4859 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^2
10^1
10^0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
64-Gd-156

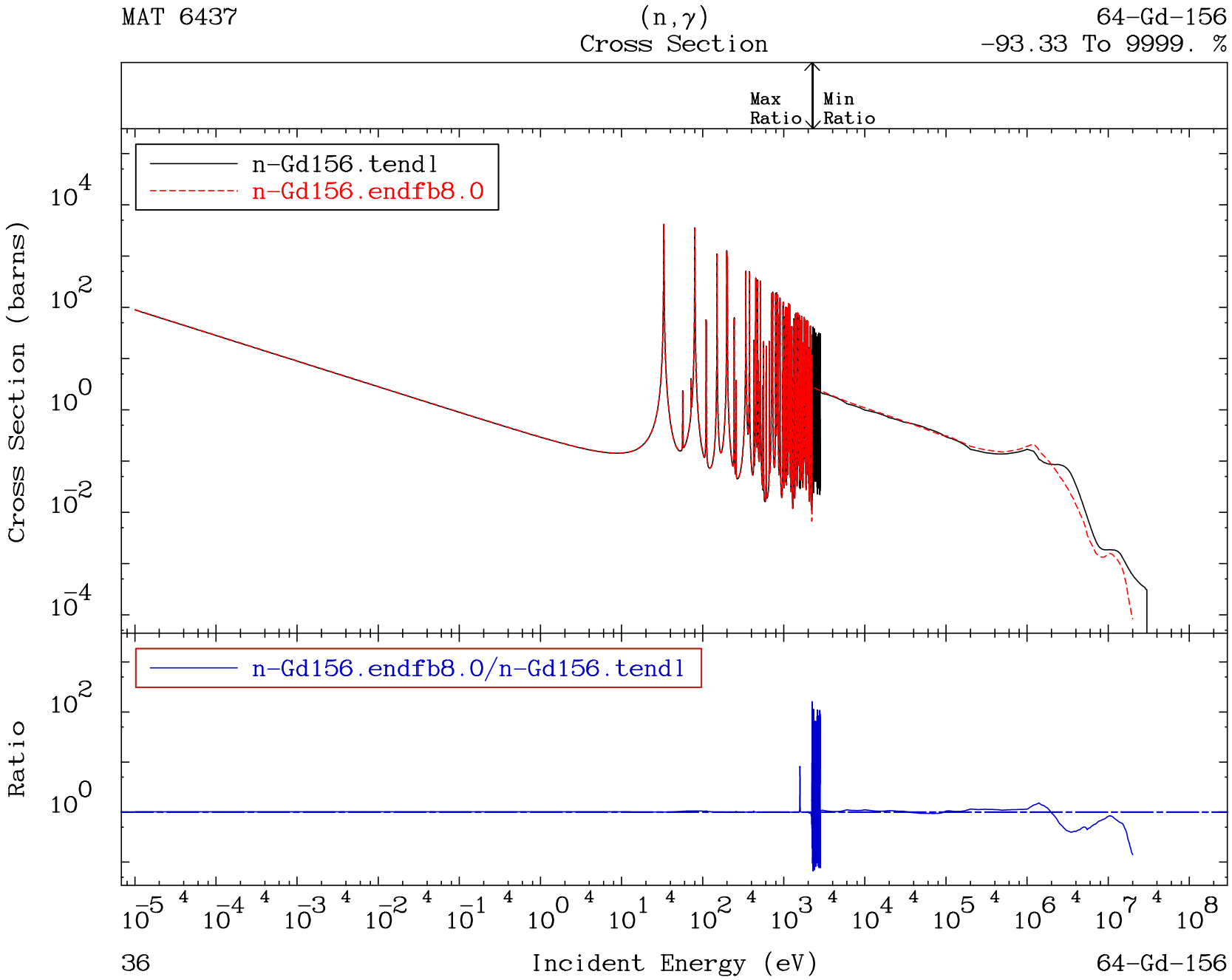

MAT 6437
MT= 72 (n,n') Level
Cross Section
64-Gd-156
-100.0 To -46.51%
Max
Ratio
Min
Ratio
n-Gd156.tendl Threshold 1.5204 MeV
n-Gd156.endfb8.0 Threshold 1.5166 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
64-Gd-156

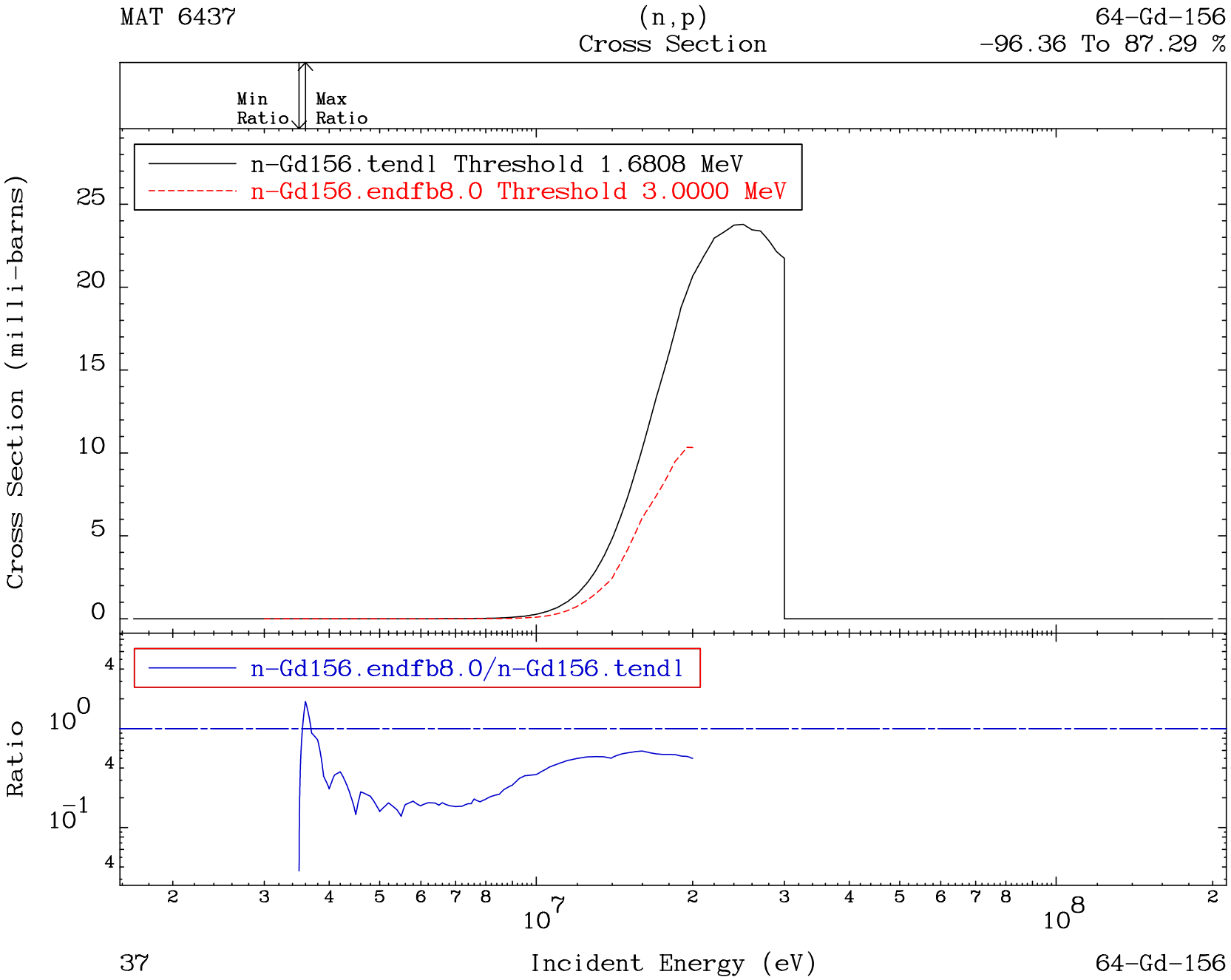

MAT 6437
MT= 73 (n,n') Level
Cross Section
64-Gd-156
-100.0 To 396.7 %
Max
Ratio
Min
Ratio
n-Gd156.tendl Threshold 1.5488 MeV
n-Gd156.endfb8.0 Threshold 1.5203 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
32
Incident Energy (eV)
64-Gd-156

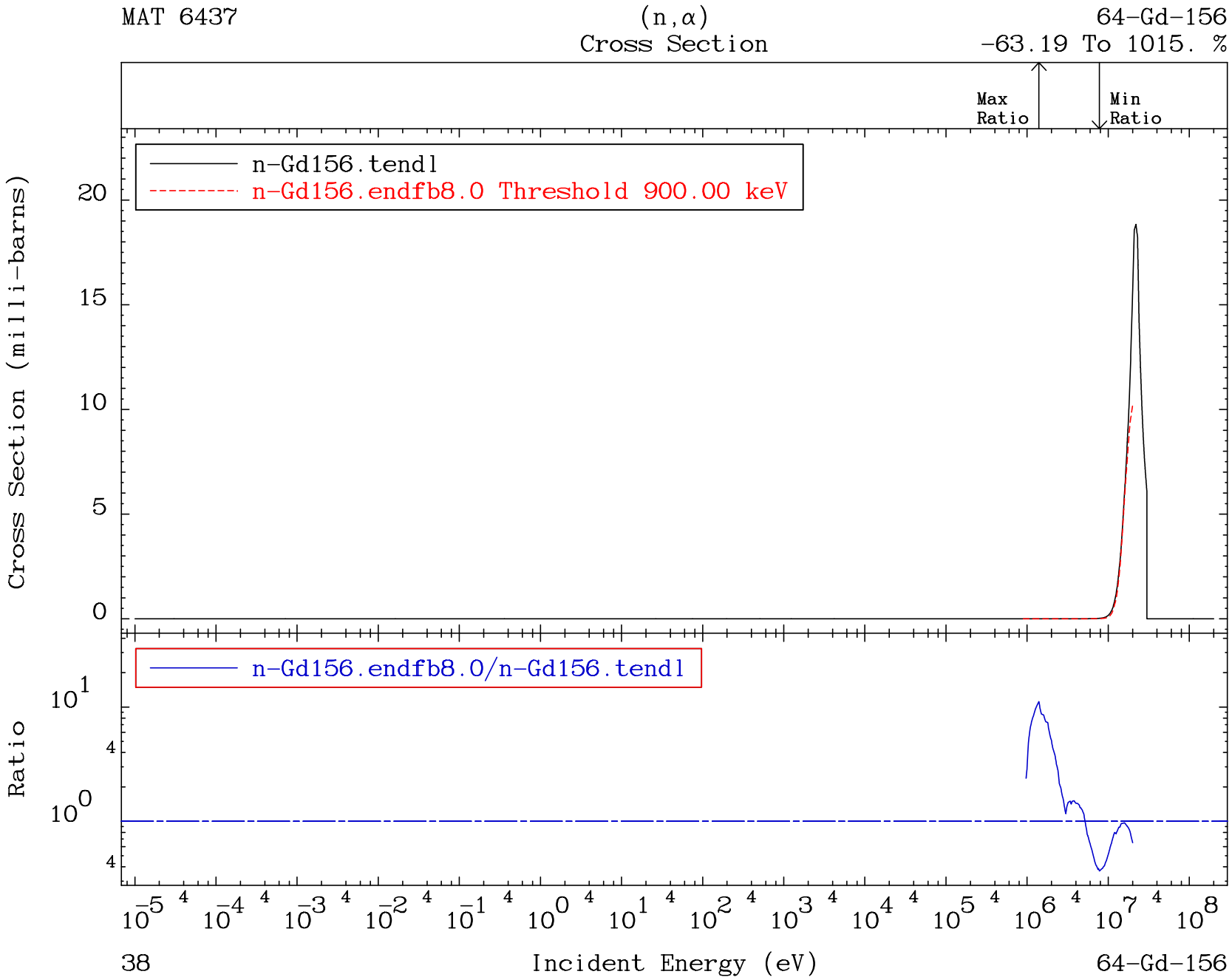

MAT 6437
MT= 74 (n,n') Level
Cross Section
64-Gd-156
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Gd156.tendl Threshold 1.5502 MeV
n-Gd156.endfb8.0 Threshold 1.5488 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^4
10^0
10^-4
10^-8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
64-Gd-156

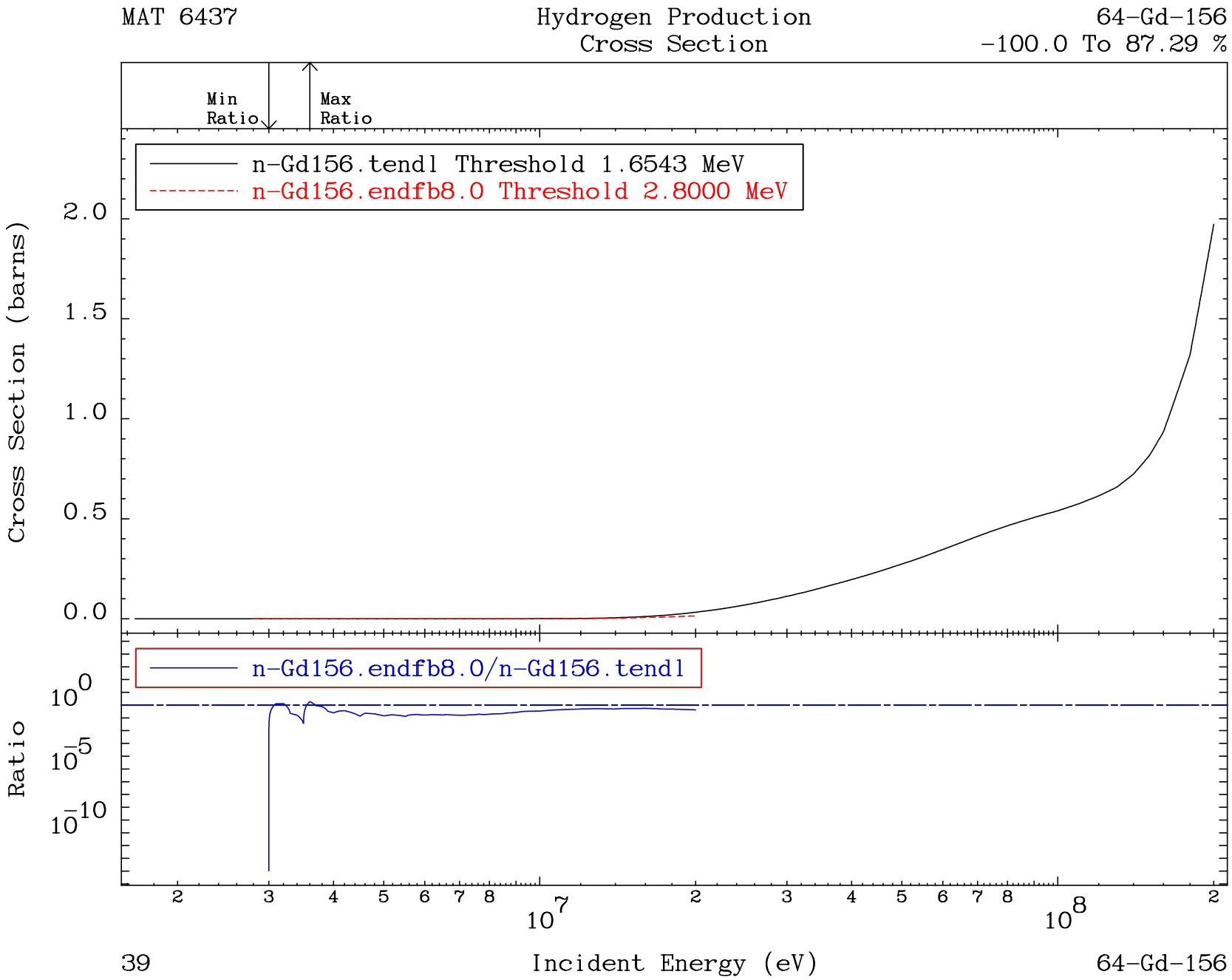

MAT 6437
MT= 75 (n,n') Level
Cross Section
64-Gd-156
-100.0 To -87.87%
Max
Ratio
Min
Ratio
n-Gd156.tendl Threshold 1.5871 MeV
n-Gd156.endfb8.0 Threshold 1.5502 MeV
Cross Section (milli-barns)
60
40
20
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
64-Gd-156

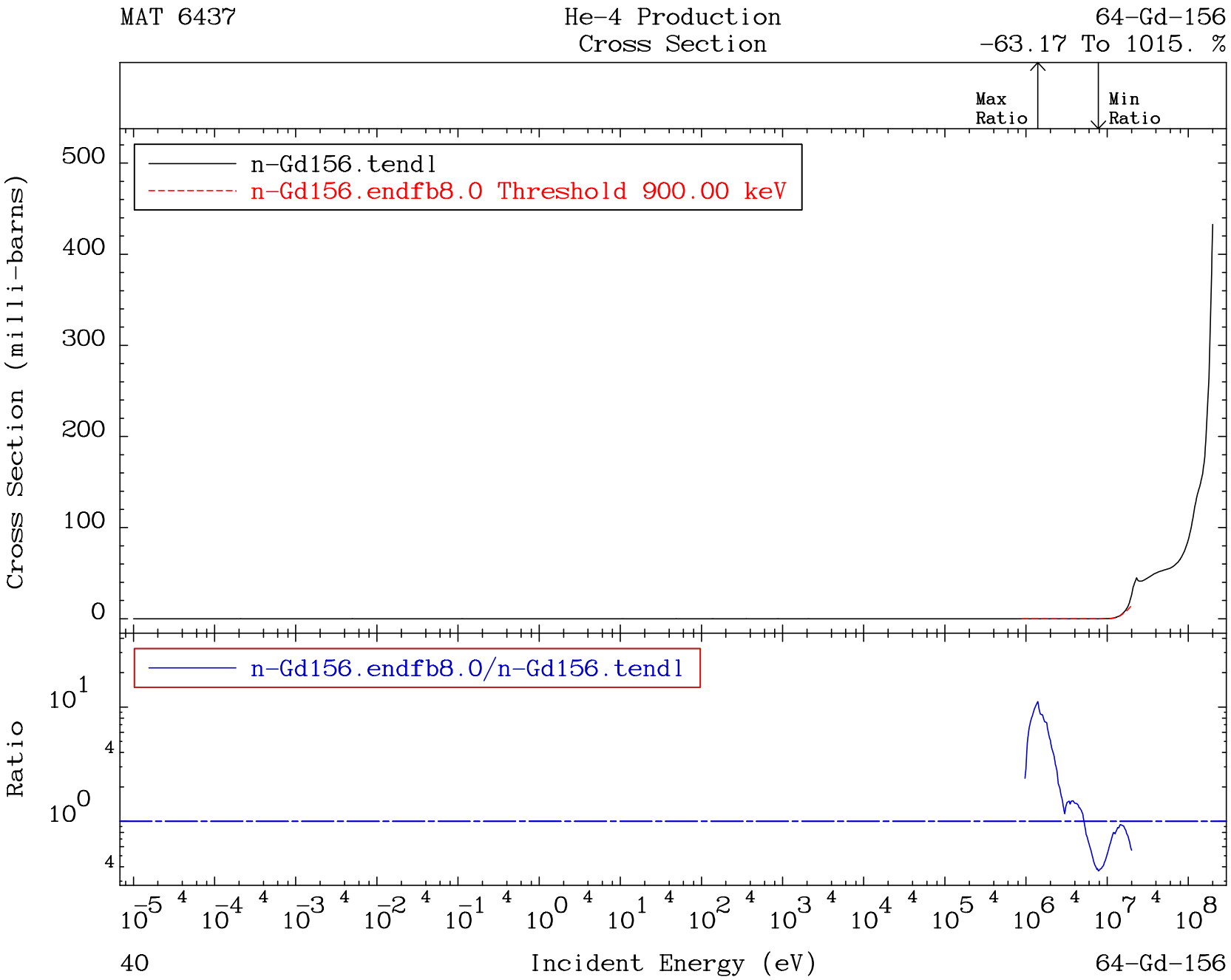

MAT 6437
(n,n') Continuum
Cross Section
64-Gd-156
-68.01 To 3860. %
Max
Ratio
Min
Ratio
n-Gd156.tendl Threshold 1.6543 MeV
n-Gd156.endfb8.0 Threshold 613.80 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^2
10^1
10^0
4
4
4
6 7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
35
Incident Energy (eV)
64-Gd-156

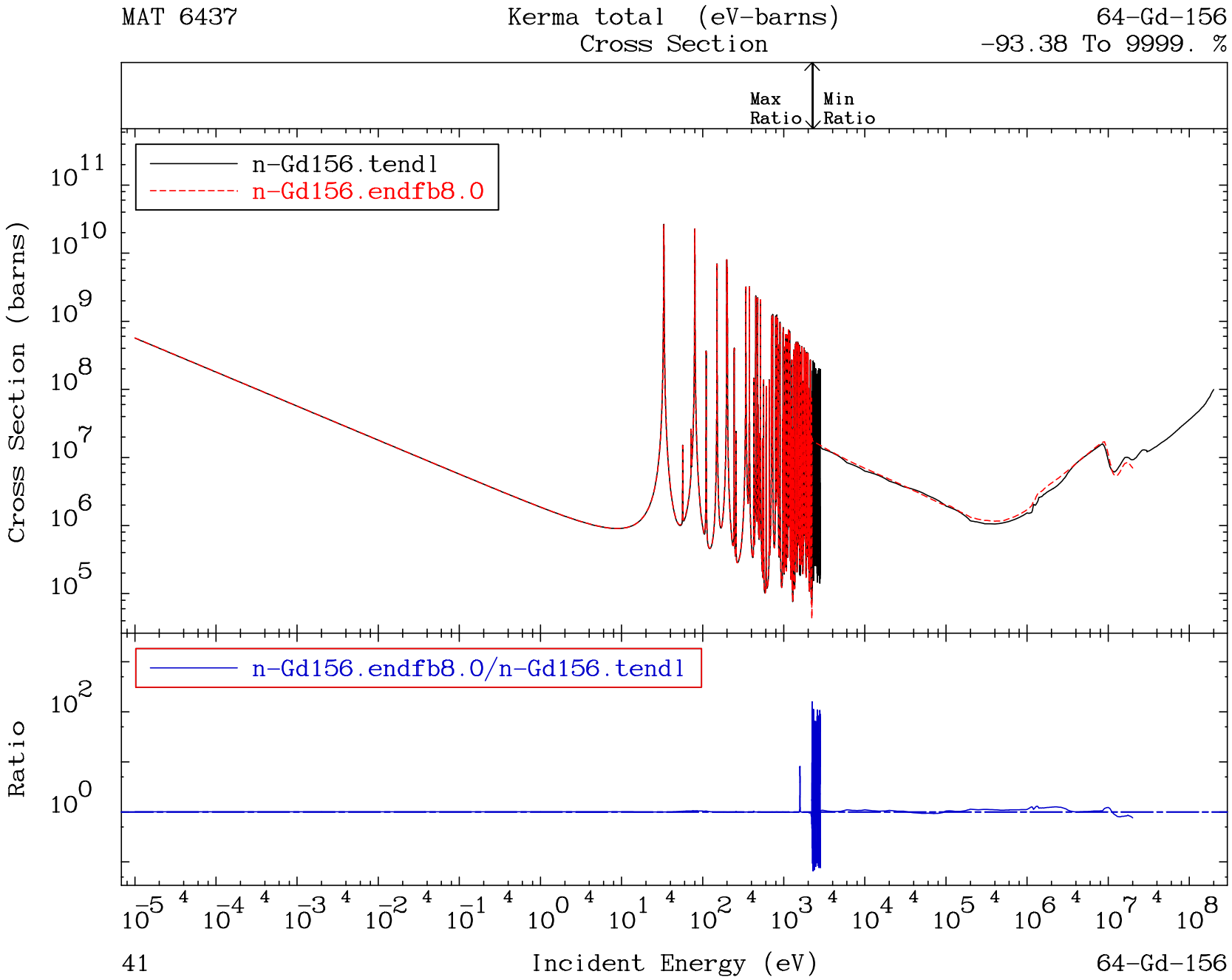

MAT 6437
(n,γ)
Cross Section
64-Gd-156
-93.33 To 9999. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
Incident Energy (eV)
36
64-Gd-156

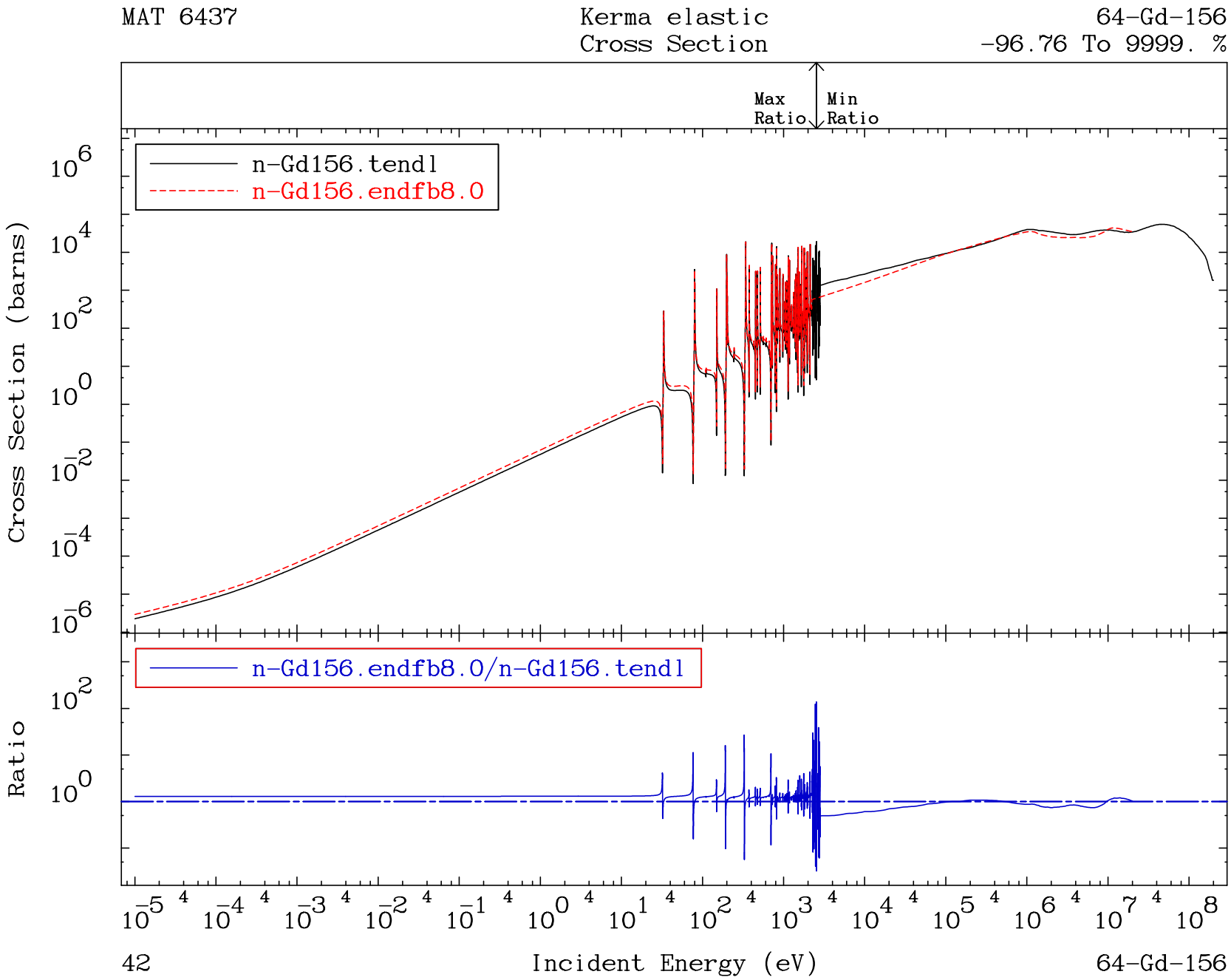

MAT 6437
(n,p)
Cross Section
64-Gd-156
-96.36 To 87.29 %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 1.6808 MeV
n-Gd156.endfb8.0 Threshold 3.0000 MeV
Cross Section (milli-barns)
0
5
10
15
20
25
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^0
10^-1
2
3
4
5
6
7
8
10^7
10^8
37
Incident Energy (eV)
64-Gd-156

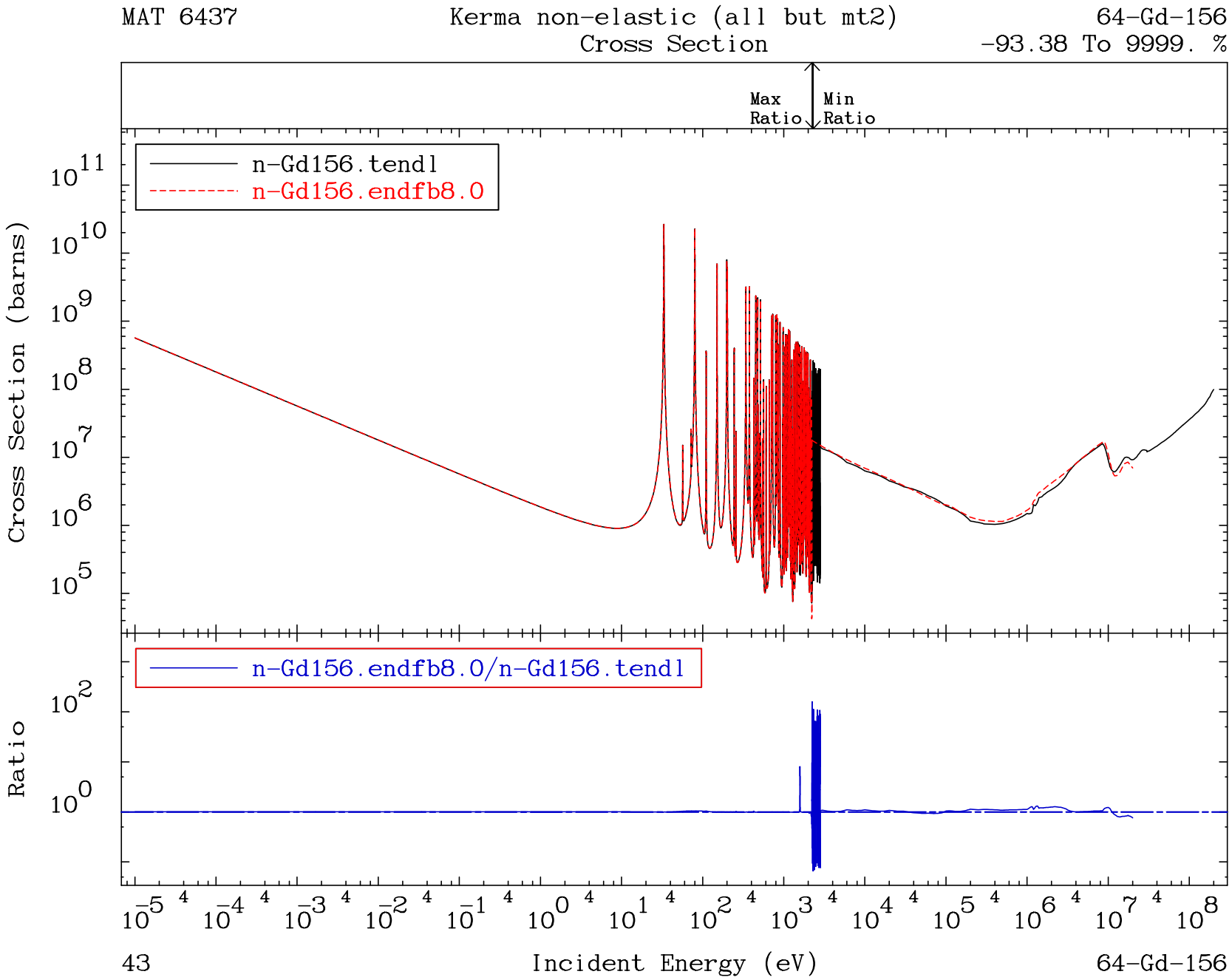

MAT 6437
(n,α)
Cross Section
64-Gd-156
-63.19 To 1015. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0 Threshold 900.00 keV
Cross Section (milli-barns)
20
15
10
5
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^1
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
38
Incident Energy (eV)
64-Gd-156

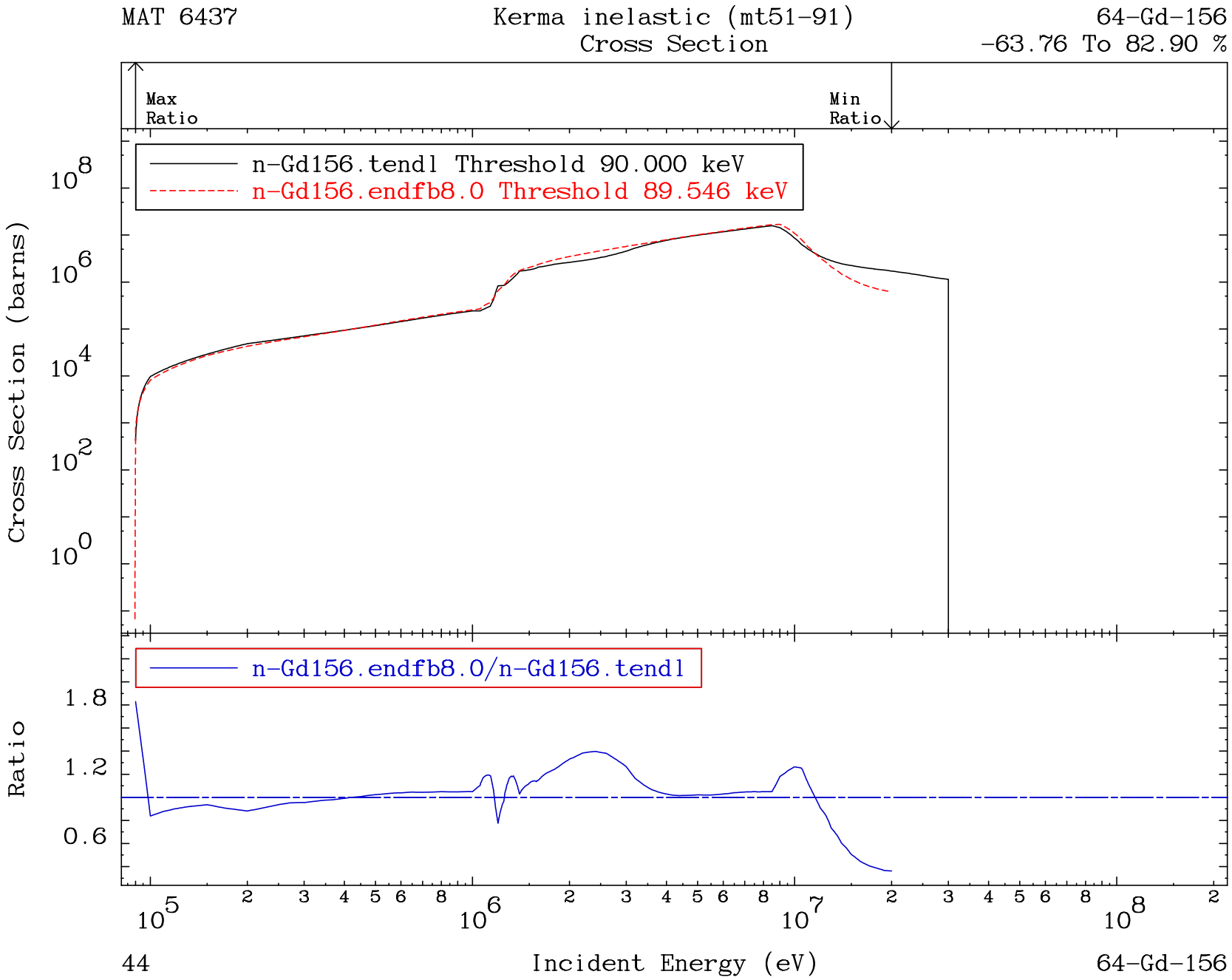

MAT 6437
Hydrogen Production
Cross Section
64-Gd-156
-100.0 To 87.29 %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 1.6543 MeV
n-Gd156.endfb8.0 Threshold 2.8000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^0
10^-5
10^-10
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
64-Gd-156

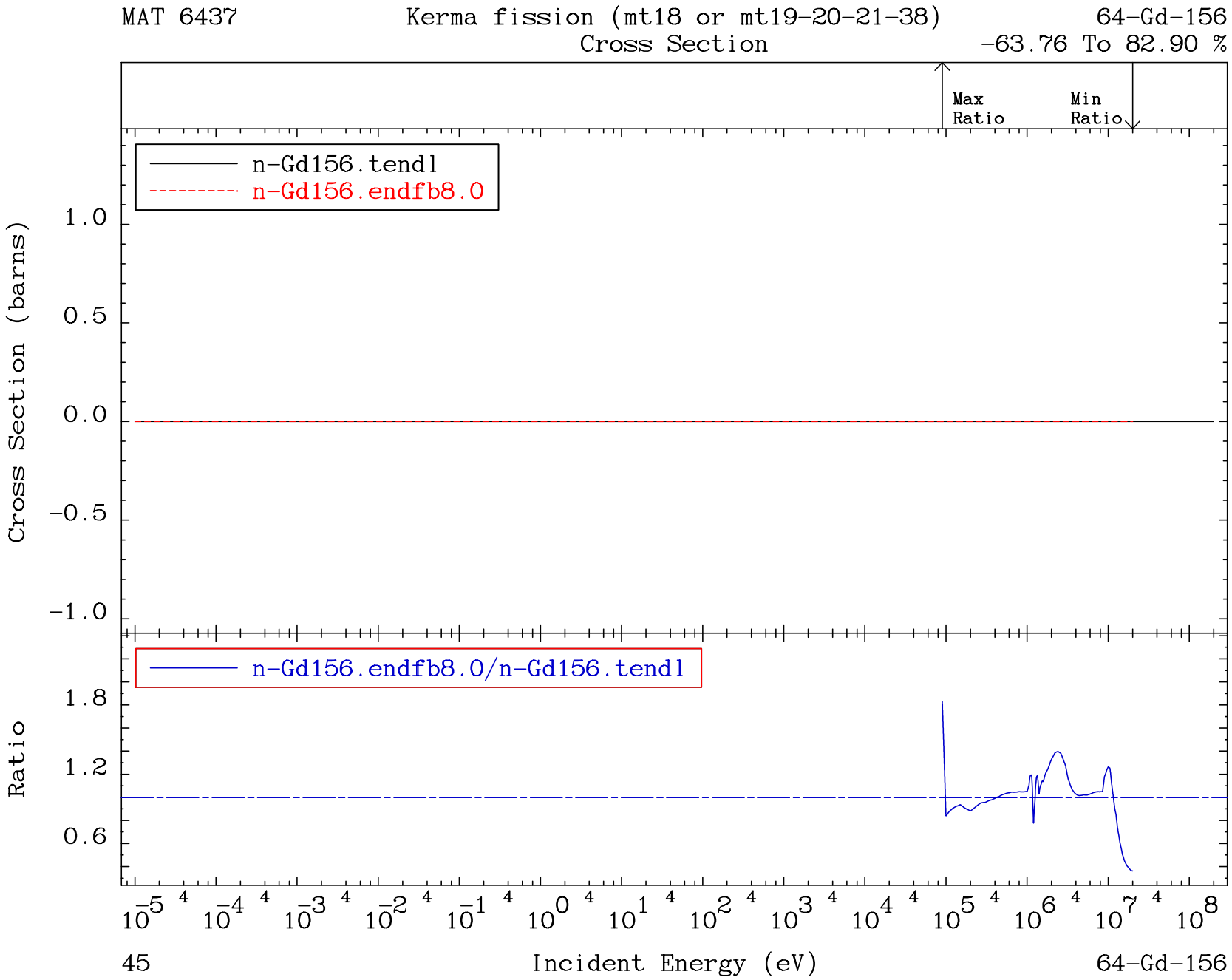

MAT 6437
He-4 Production
Cross Section
64-Gd-156
-63.17 To 1015. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0 Threshold 900.00 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
10^1
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
40
Incident Energy (eV)
64-Gd-156

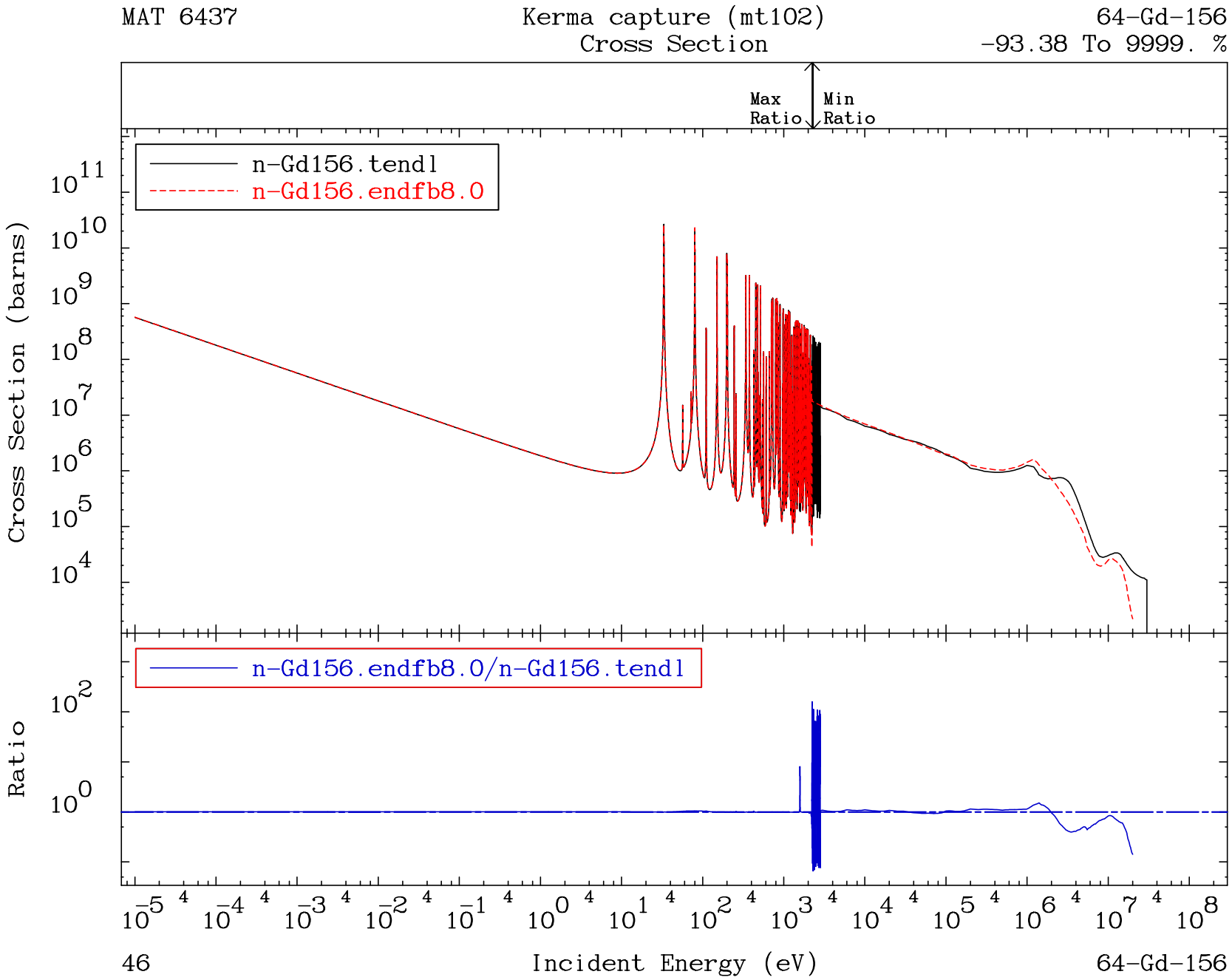

MAT 6437
Kerma total (eV-barns)
Cross Section
64-Gd-156
-93.38 To 9999. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
Incident Energy (eV)
41
64-Gd-156

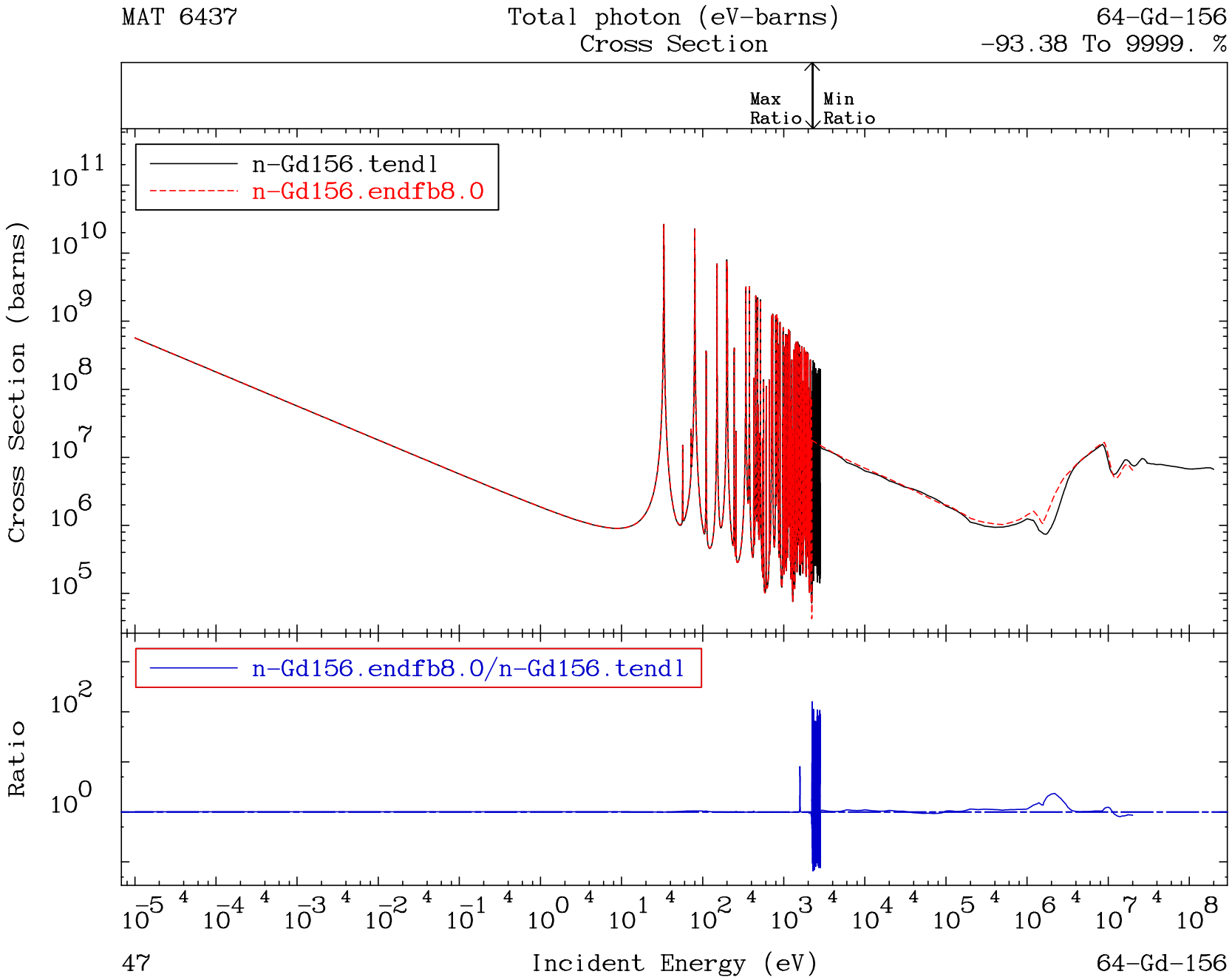

MAT 6437
Kerma elastic
Cross Section
64-Gd-156
-96.76 To 9999. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
Incident Energy (eV)
42
64-Gd-156

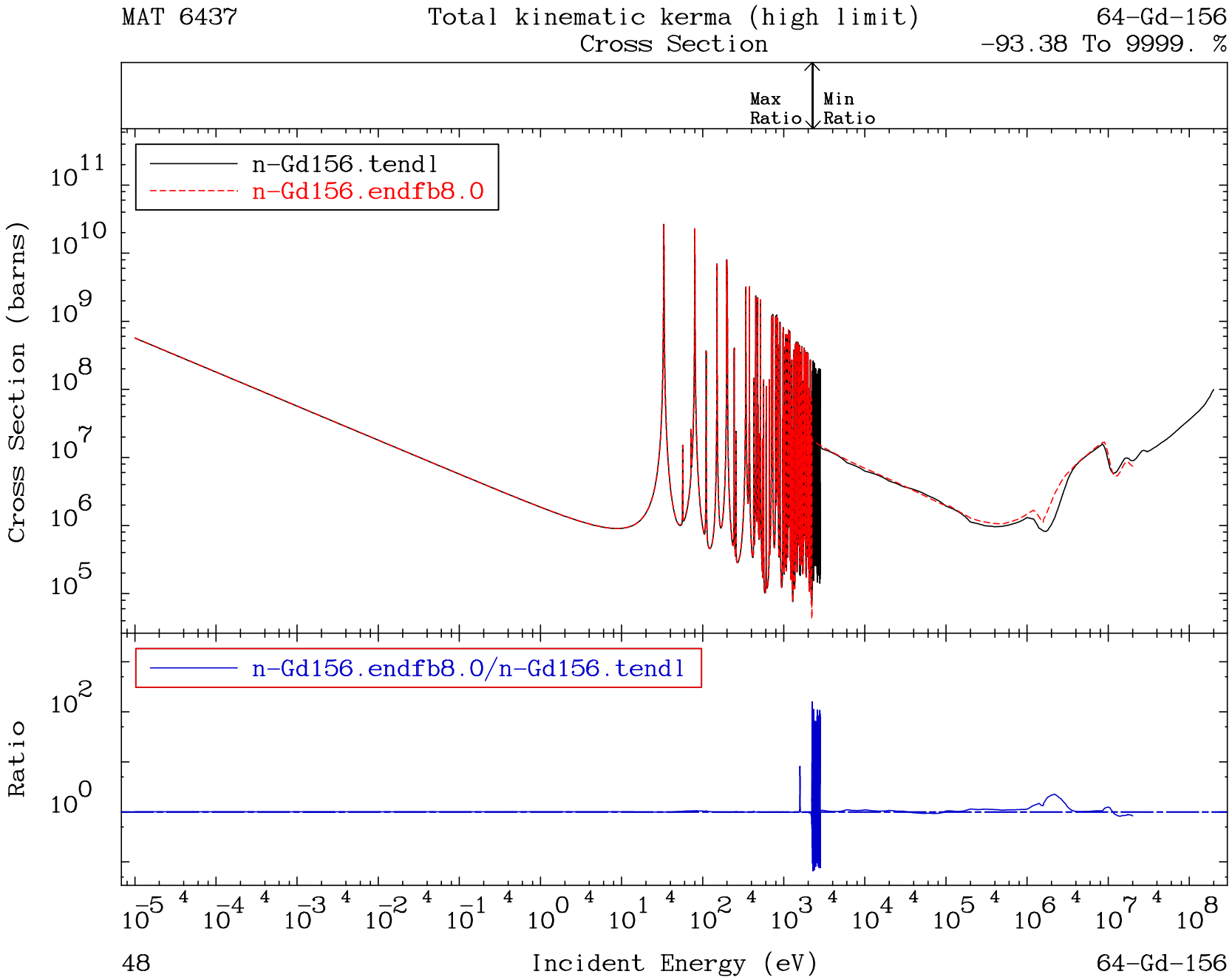

MAT 6437
Kerma non-elastic (all but mt2)
Cross Section
64-Gd-156
-93.38 To 9999. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
Incident Energy (eV)
43
64-Gd-156

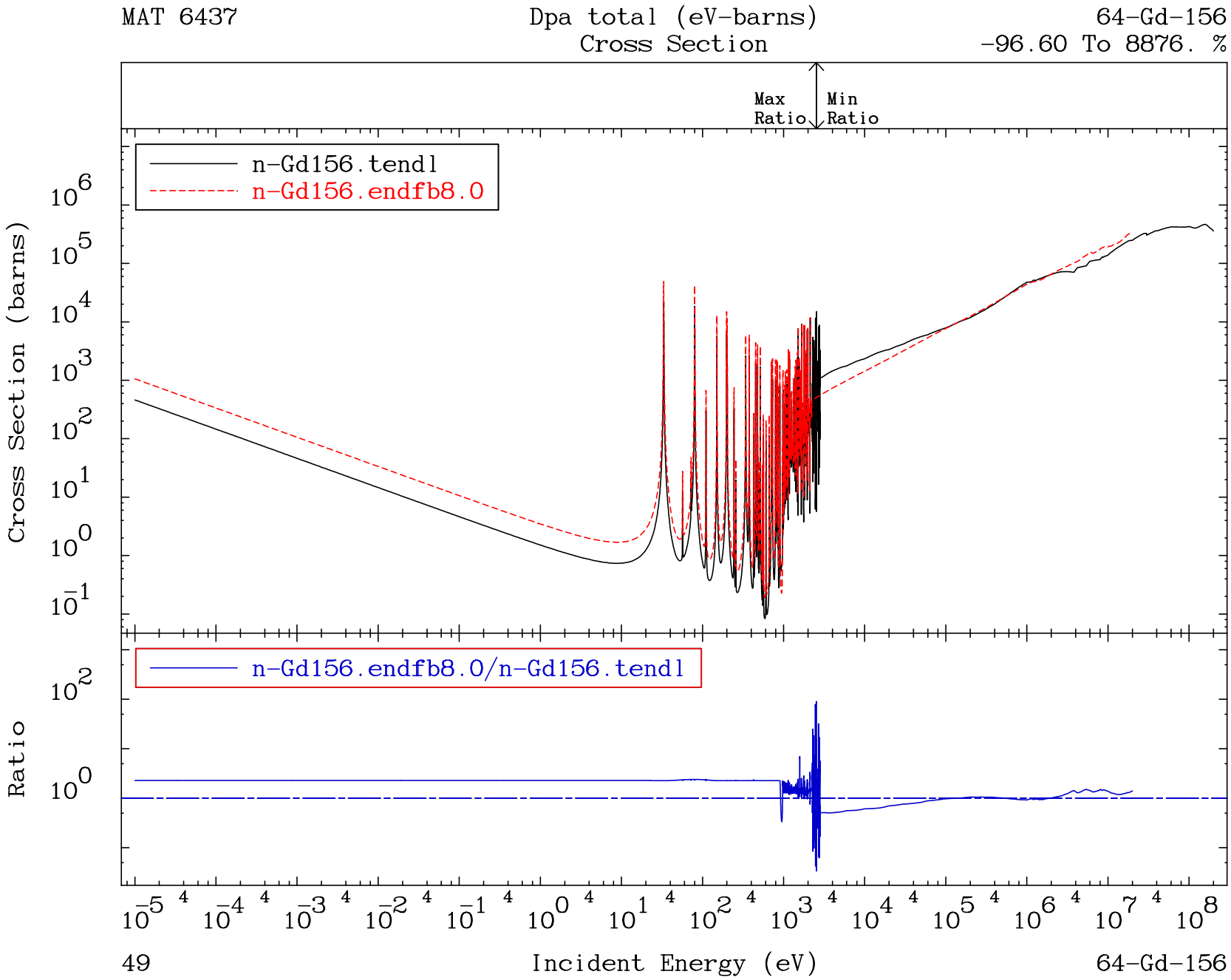

MAT 6437
Kerma inelastic (mt51-91)
Cross Section
64-Gd-156
-63.76 To 82.90 %
Max Ratio
Min Ratio
n-Gd156.tendl Threshold 90.000 keV
n-Gd156.endfb8.0 Threshold 89.546 keV
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
Incident Energy (eV)
44
64-Gd-156

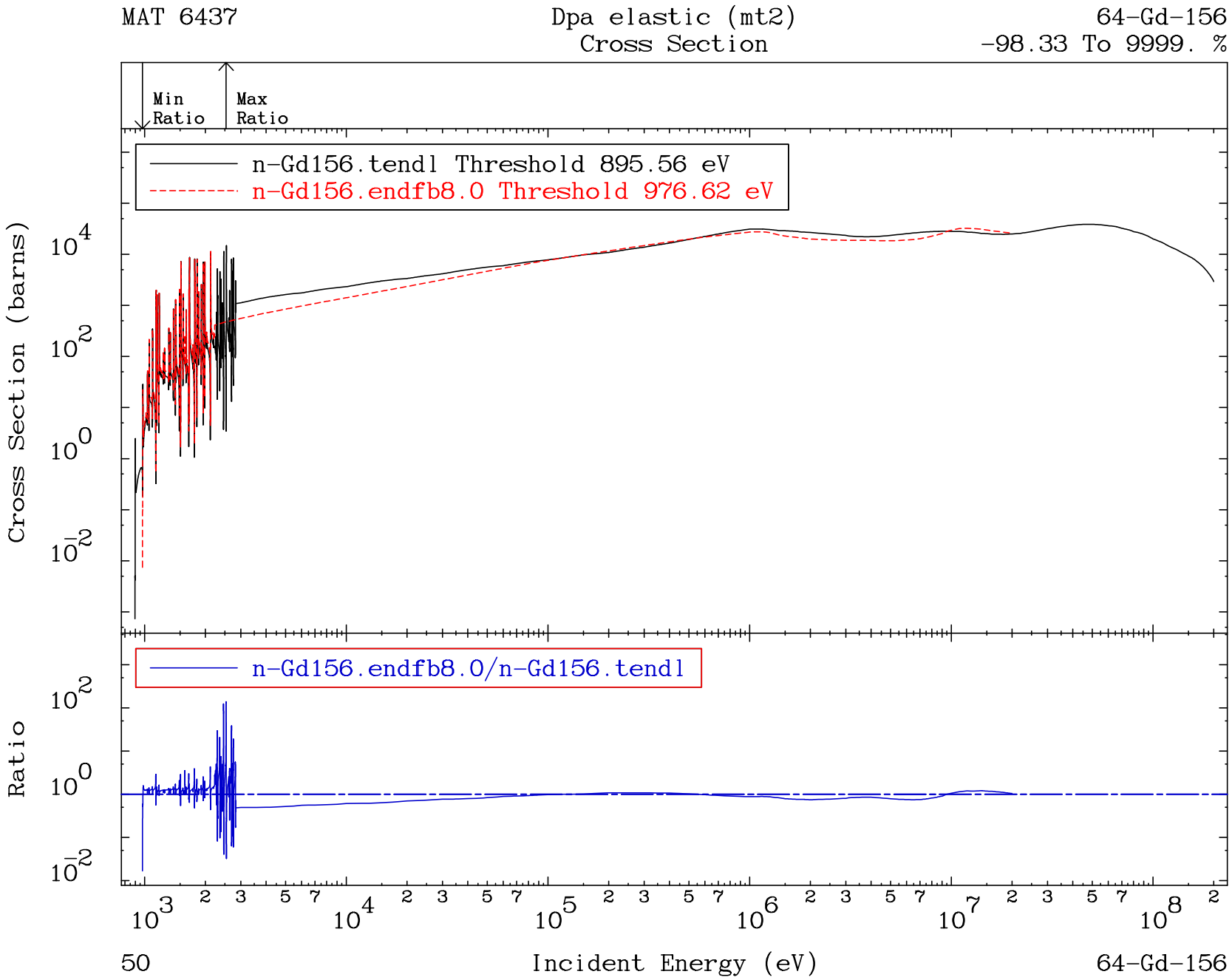

MAT 6437
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
64-Gd-156
-63.76 To 82.90 %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
1.8
1.2
0.6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
45
Incident Energy (eV)
64-Gd-156

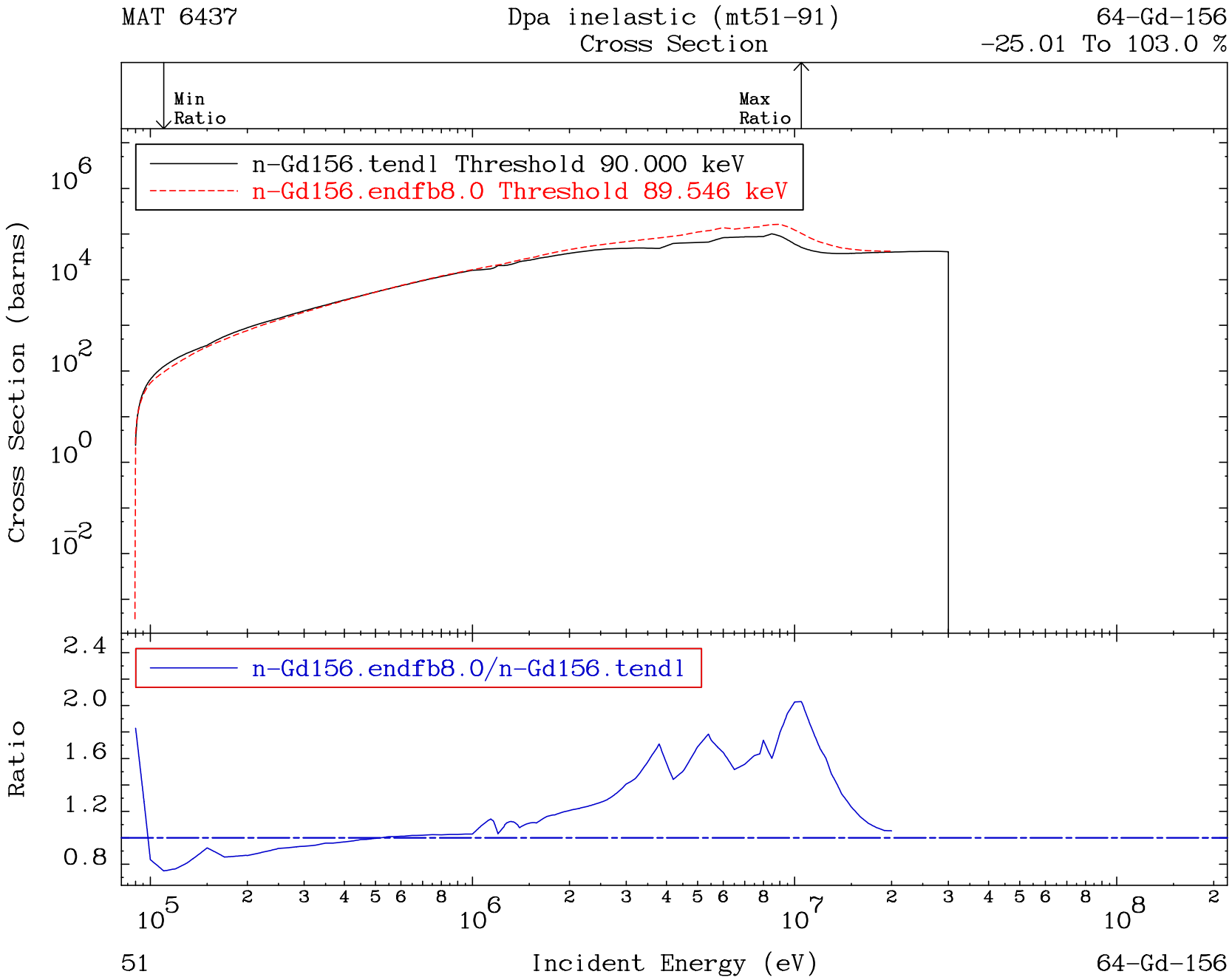

MAT 6437
Kerma capture (mt102)
Cross Section
64-Gd-156
-93.38 To 9999. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
46
Incident Energy (eV)
64-Gd-156

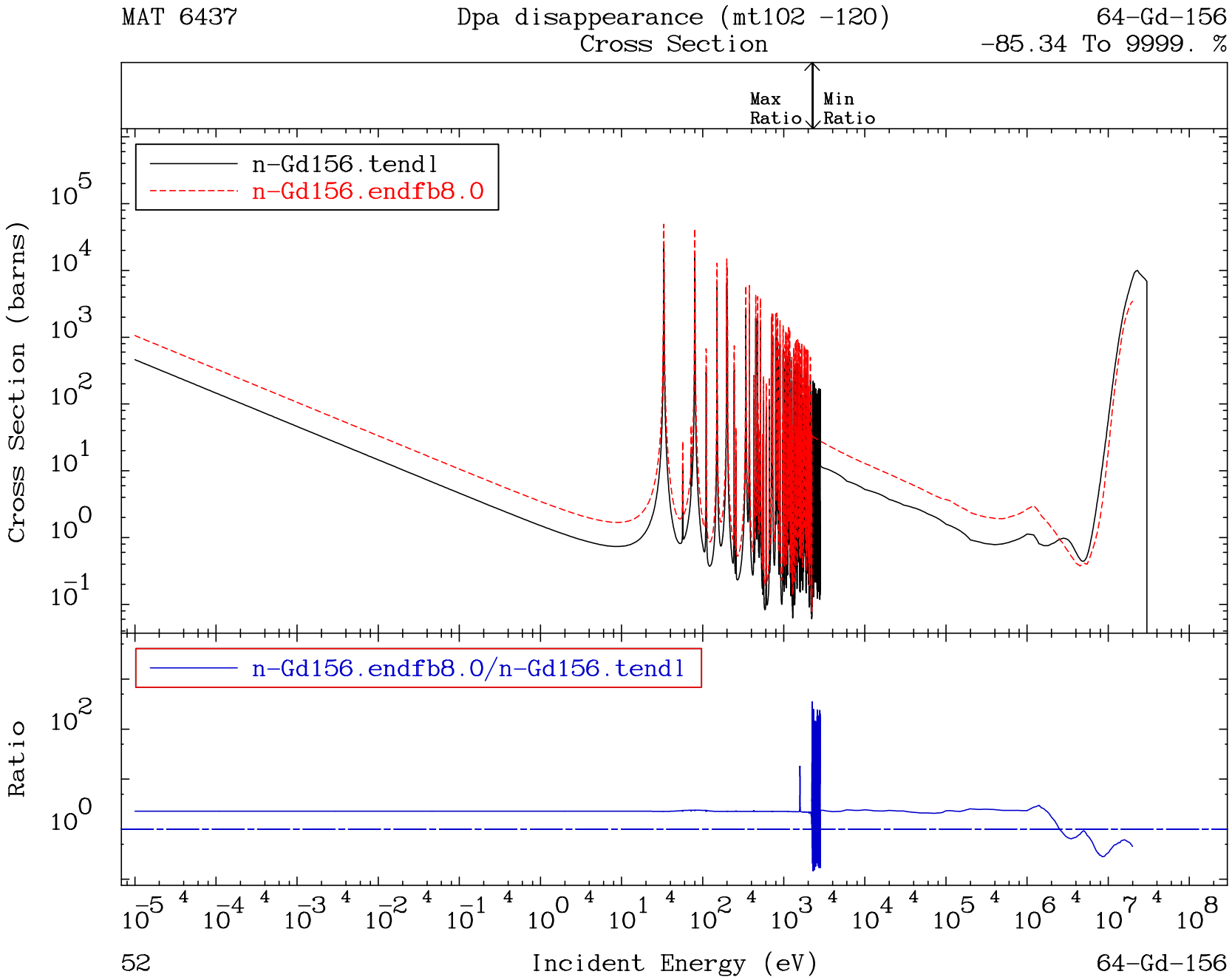

MAT 6437
Total photon (eV-barns)
Cross Section
64-Gd-156
-93.38 To 9999. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
47
Incident Energy (eV)
64-Gd-156


MAT 6437
Total kinematic kerma (high limit)
Cross Section
64-Gd-156
-93.38 To 9999. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
48
Incident Energy (eV)
64-Gd-156


MAT 6437
Dpa total (eV-barns)
Cross Section
64-Gd-156
-96.60 To 8876. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
49
Incident Energy (eV)
64-Gd-156


MAT 6437
Dpa elastic (mt2)
Cross Section
64-Gd-156
-98.33 To 9999. %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 895.56 eV
n-Gd156.endfb8.0 Threshold 976.62 eV
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
Incident Energy (eV)
50
64-Gd-156


MAT 6437
Dpa inelastic (mt51-91)
Cross Section
64-Gd-156
-25.01 To 103.0 %
Min Ratio
Max Ratio
n-Gd156.tendl Threshold 90.000 keV
n-Gd156.endfb8.0 Threshold 89.546 keV
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
Incident Energy (eV)
51
64-Gd-156


MAT 6437
Dpa disappearance (mt102 -120)
Cross Section
64-Gd-156
-85.34 To 9999. %
Max Ratio
Min Ratio
n-Gd156.tendl
n-Gd156.endfb8.0
Cross Section (barns)
n-Gd156.endfb8.0/n-Gd156.tendl
Ratio
Incident Energy (eV)
52
64-Gd-156