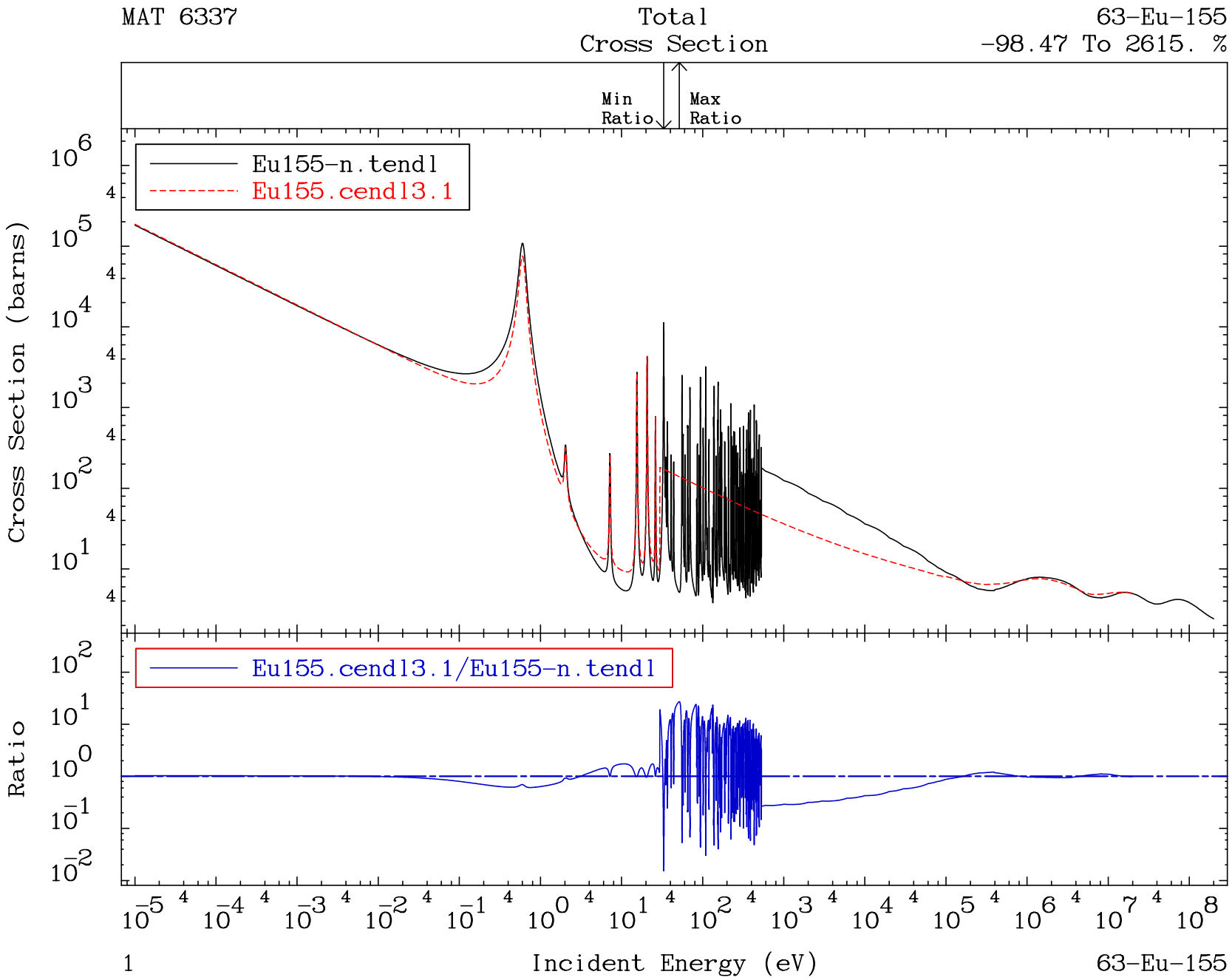
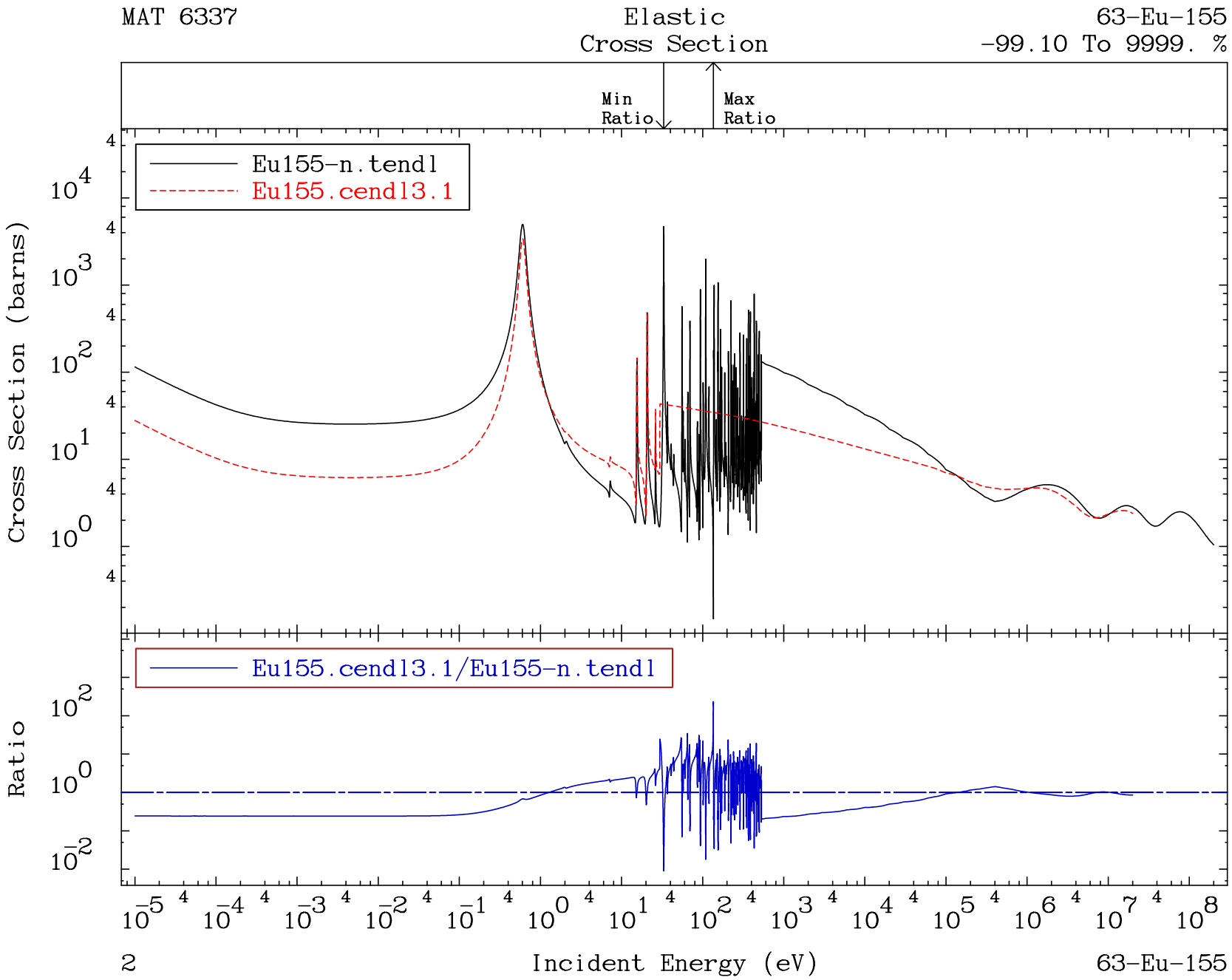
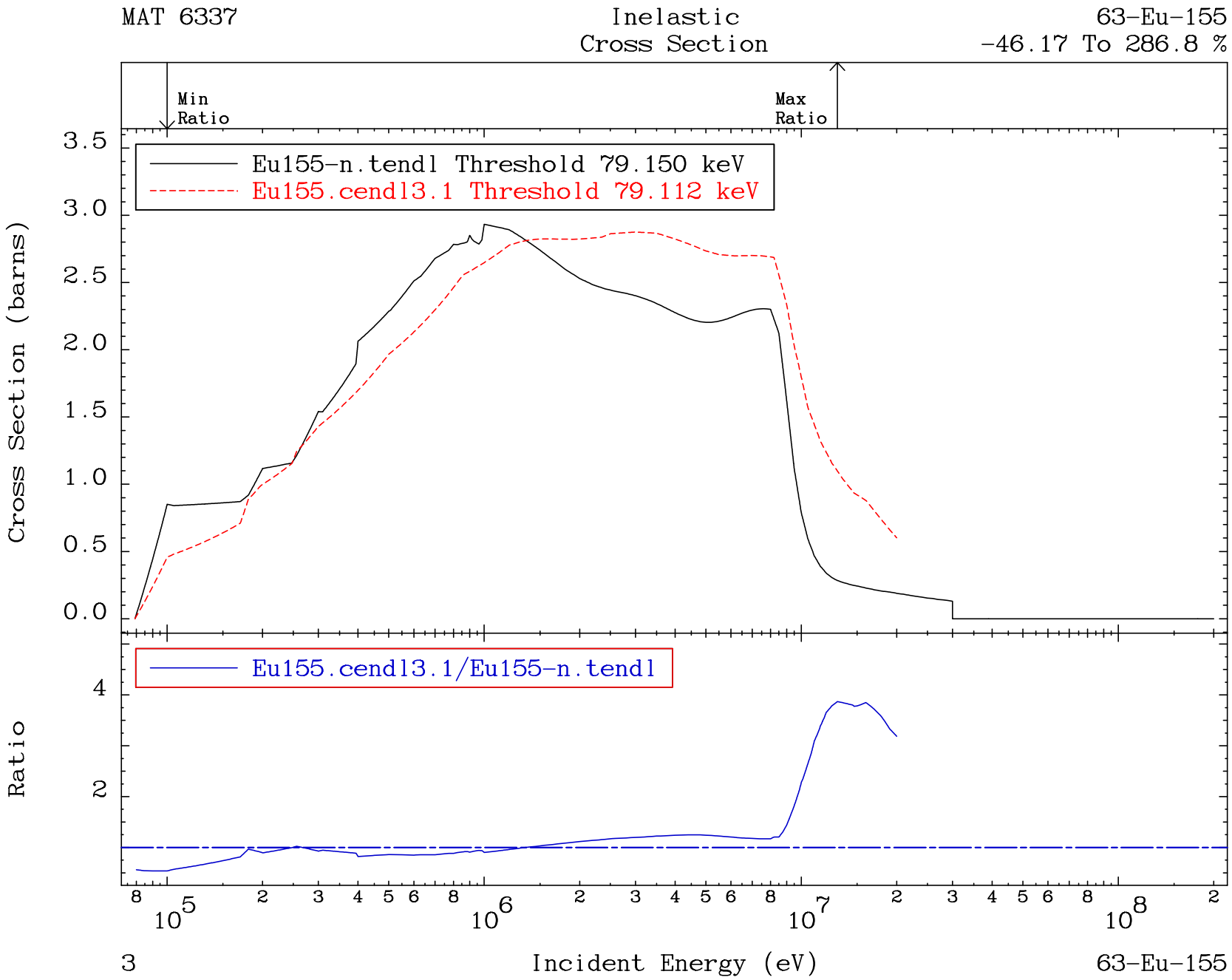
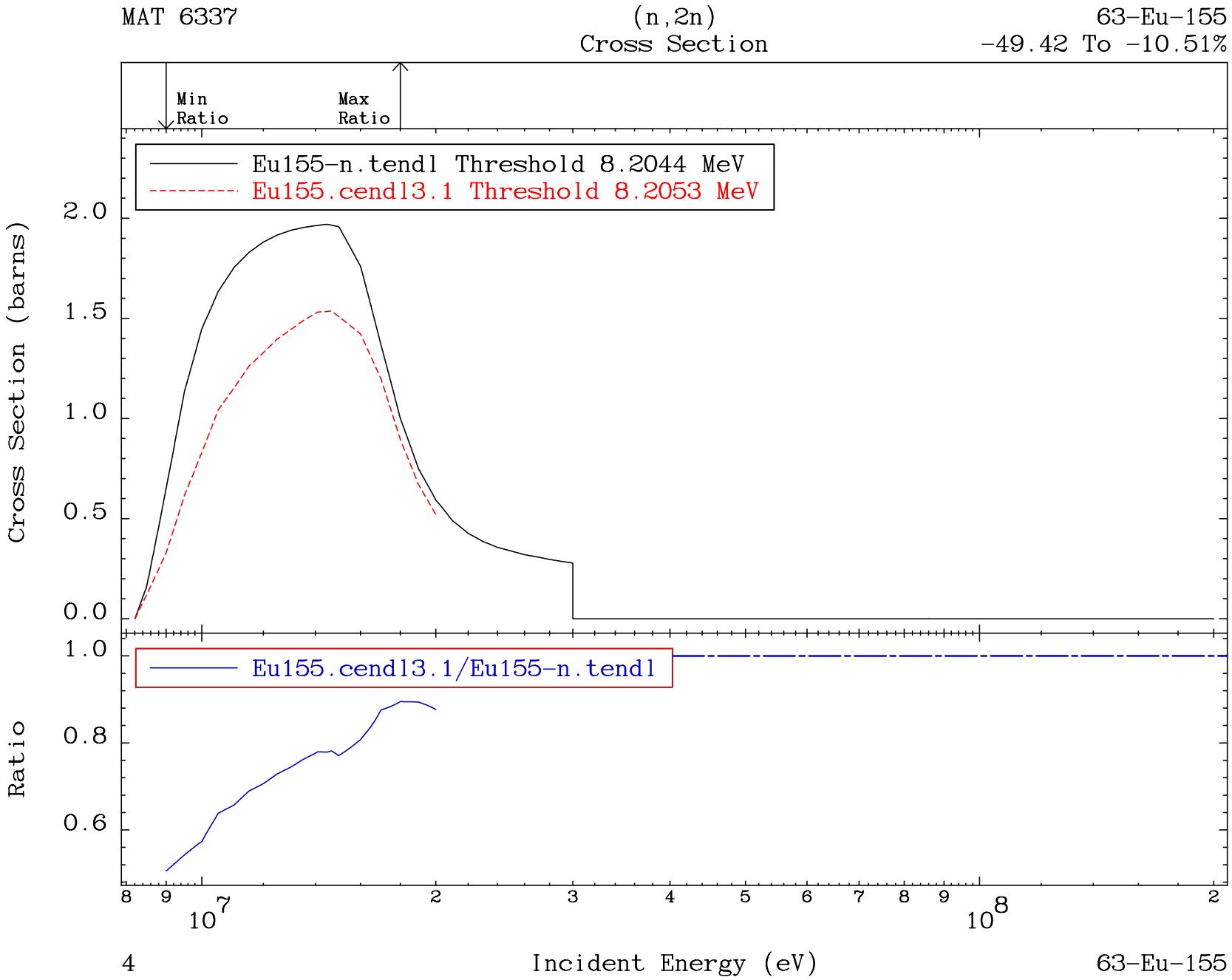
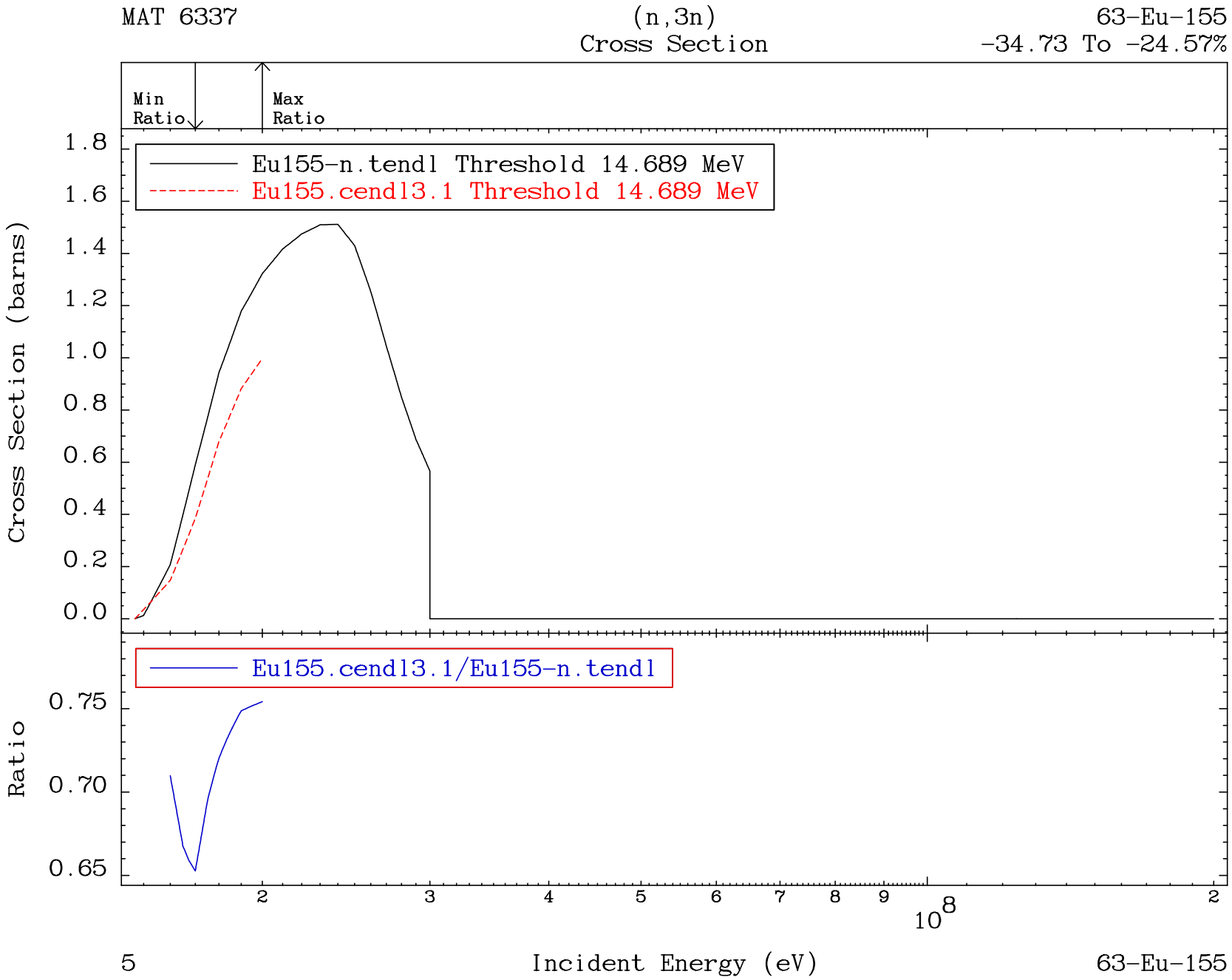
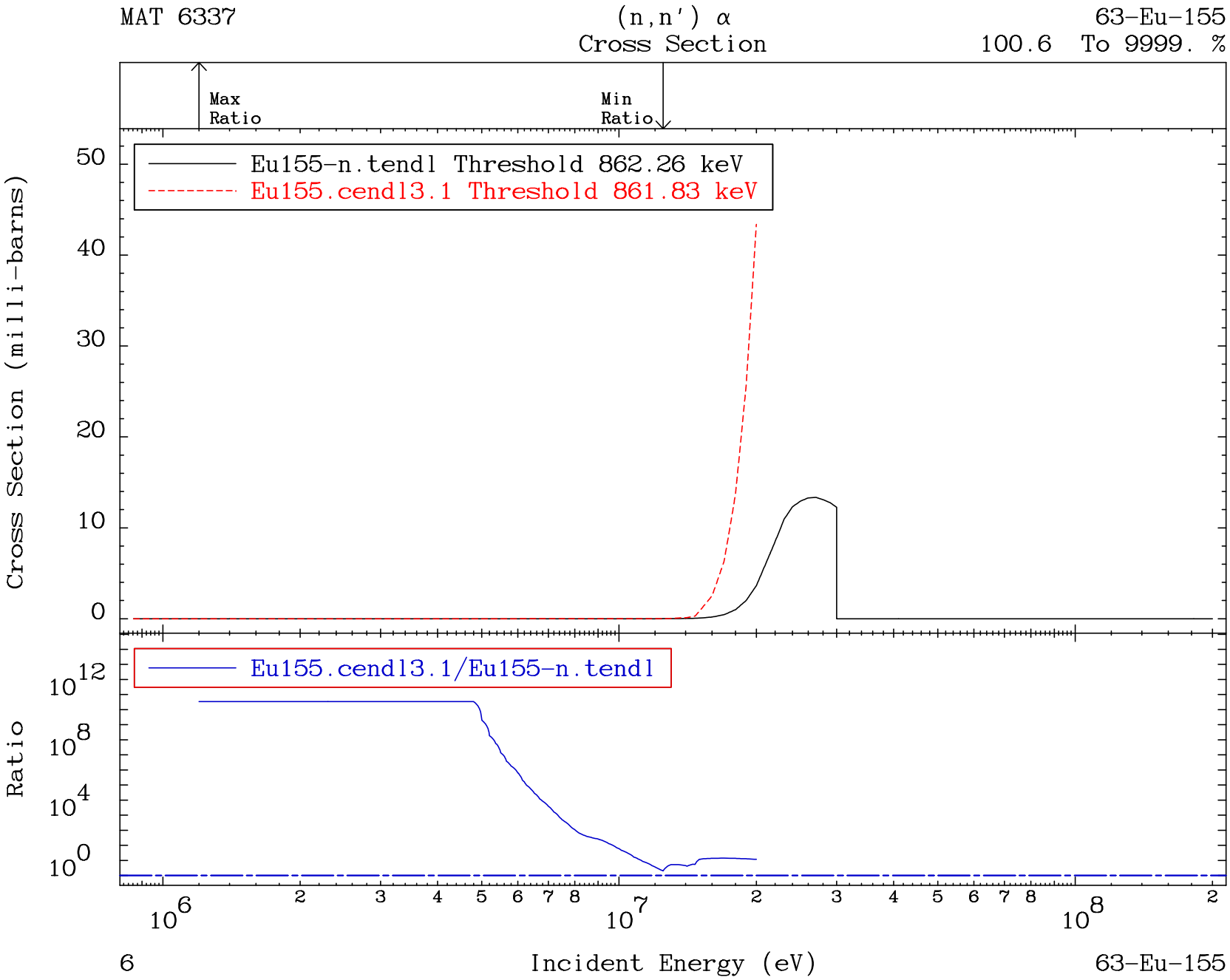

MAT 6337
Total
Cross Section
63-Eu-155
-98.47 To 2615. %
Min
Ratio
Max
Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
1
63-Eu-155

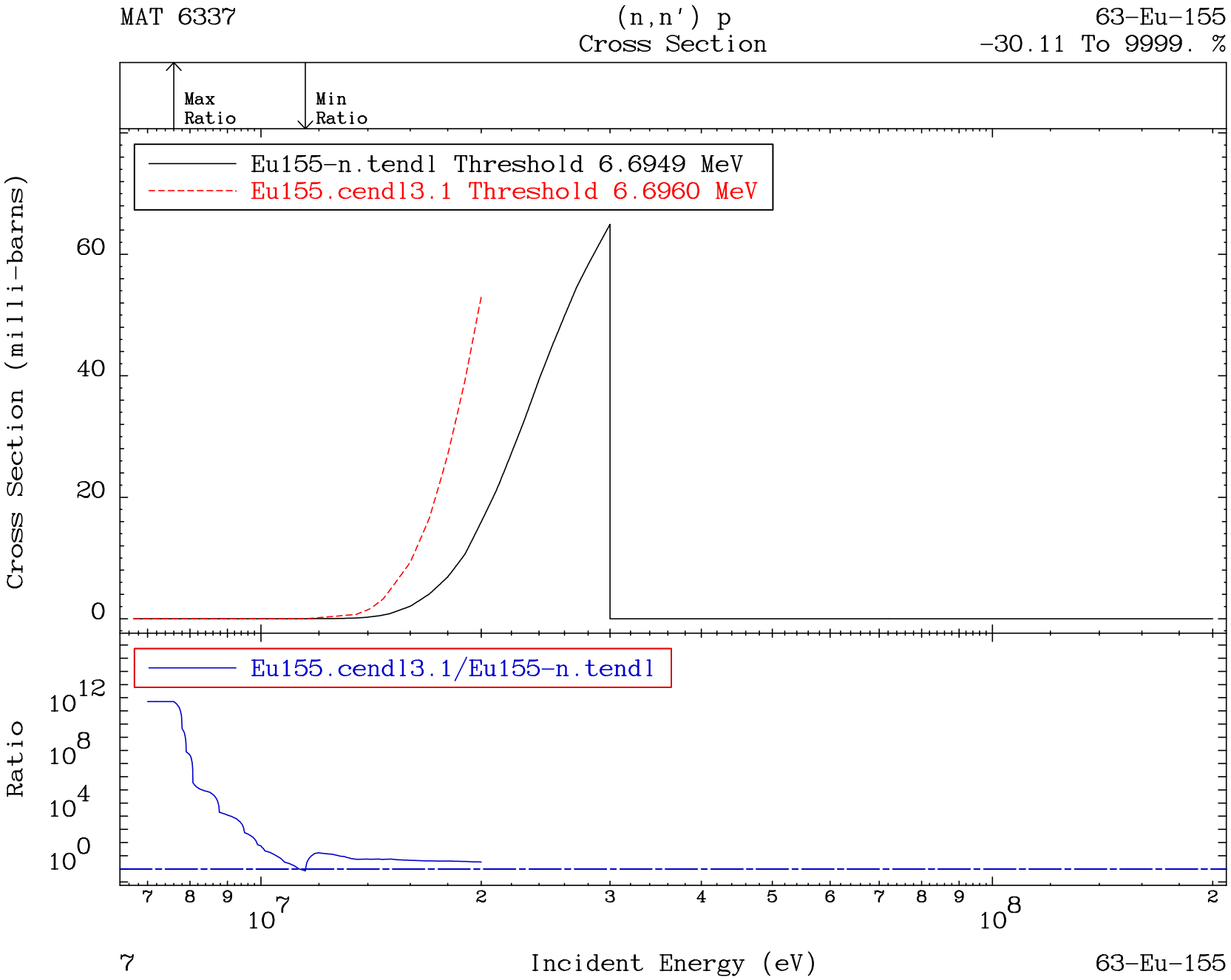

MAT 6337
Elastic
Cross Section
63-Eu-155
-99.10 To 9999. %
Min
Ratio
Max
Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
2
63-Eu-155

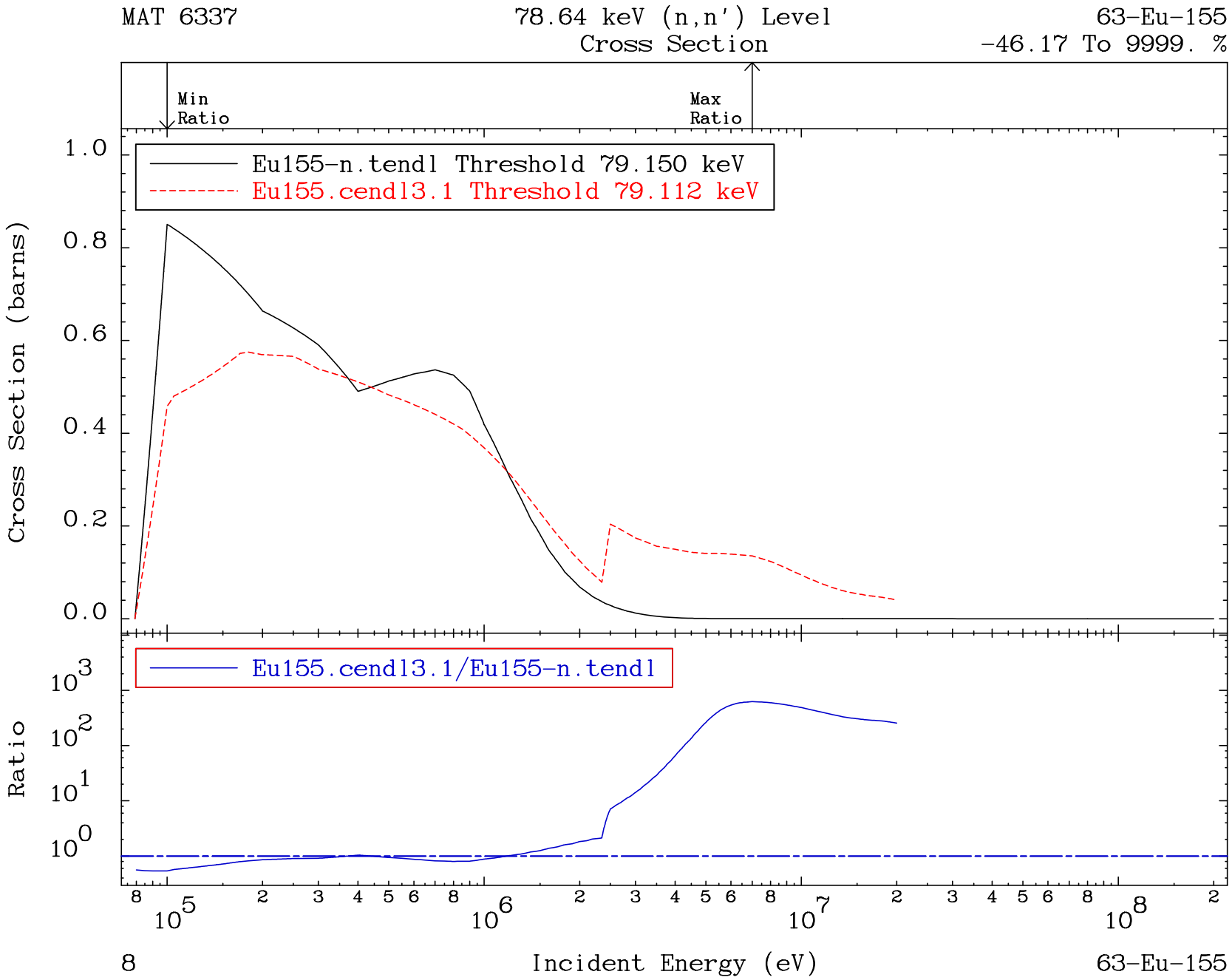

MAT 6337
Inelastic
Cross Section
63-Eu-155
-46.17 To 286.8 %
Min
Ratio
Max
Ratio
Eu155-n.tendl Threshold 79.150 keV
Eu155.cendl3.1 Threshold 79.112 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
4
2
8
2
3
4
5
6
8
10^5
10^6
10^7
10^8
3
Incident Energy (eV)
63-Eu-155

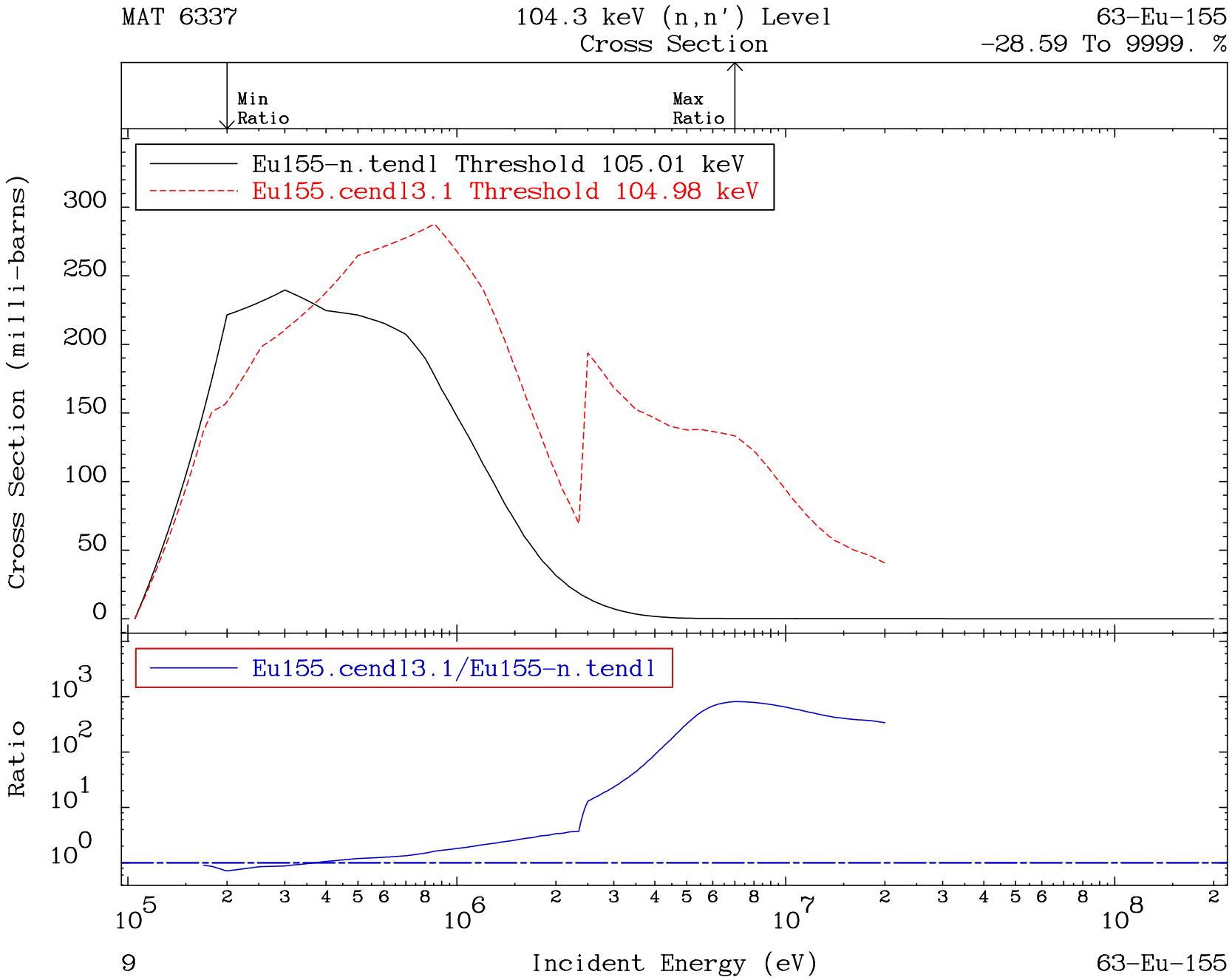

MAT 6337
(n,2n)
Cross Section
63-Eu-155
-49.42 To -10.51%
Min Ratio
Max Ratio
Eu155-n.tendl Threshold 8.2044 MeV
Eu155.cendl3.1 Threshold 8.2053 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
1.0
0.8
0.6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
63-Eu-155

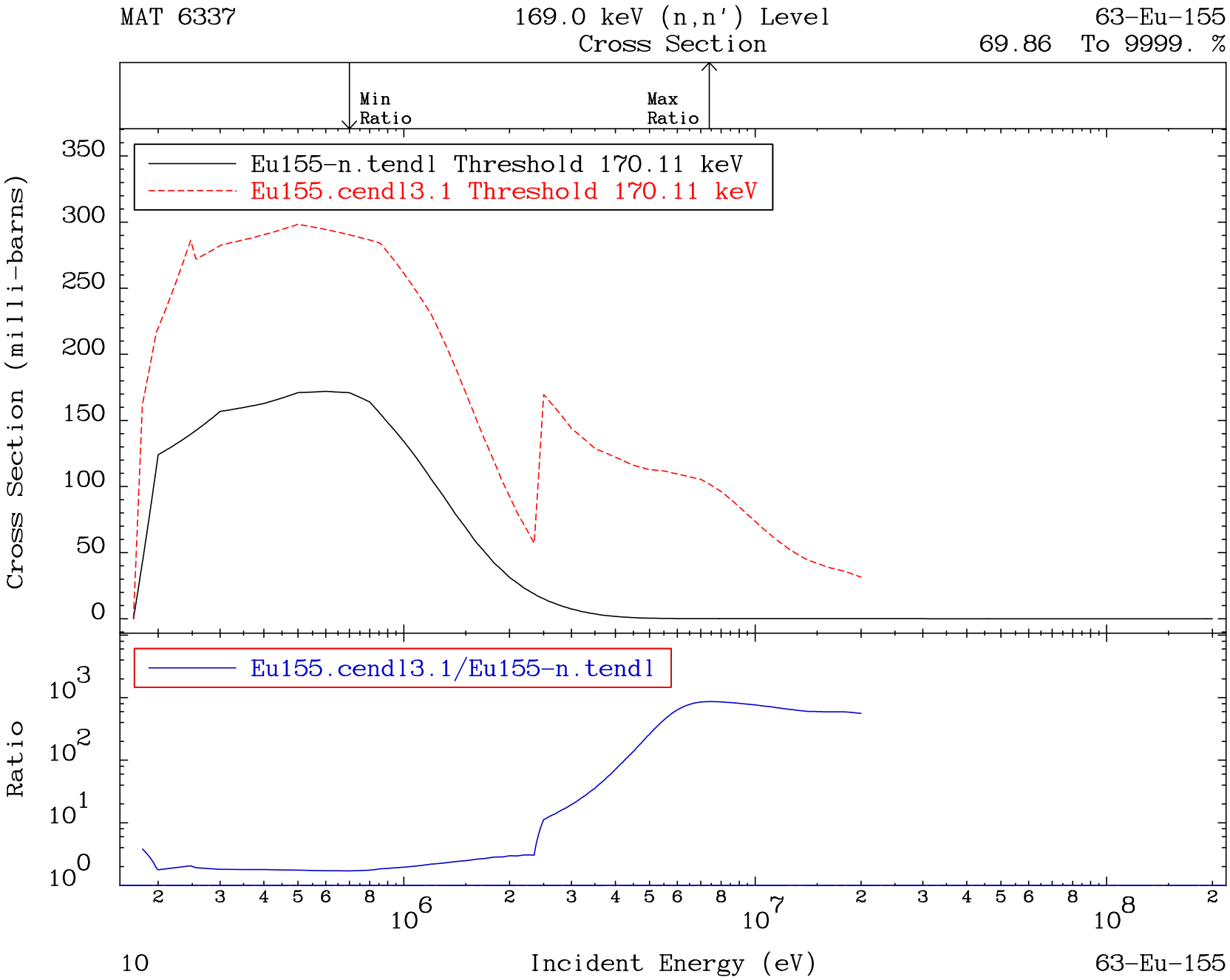

MAT 6337
(n,3n)
Cross Section
63-Eu-155
-34.73 To -24.57%
Min Ratio
Max Ratio
Eu155-n.tendl Threshold 14.689 MeV
Eu155.cendl3.1 Threshold 14.689 MeV
Cross Section (barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
0.75
0.70
0.65
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
63-Eu-155

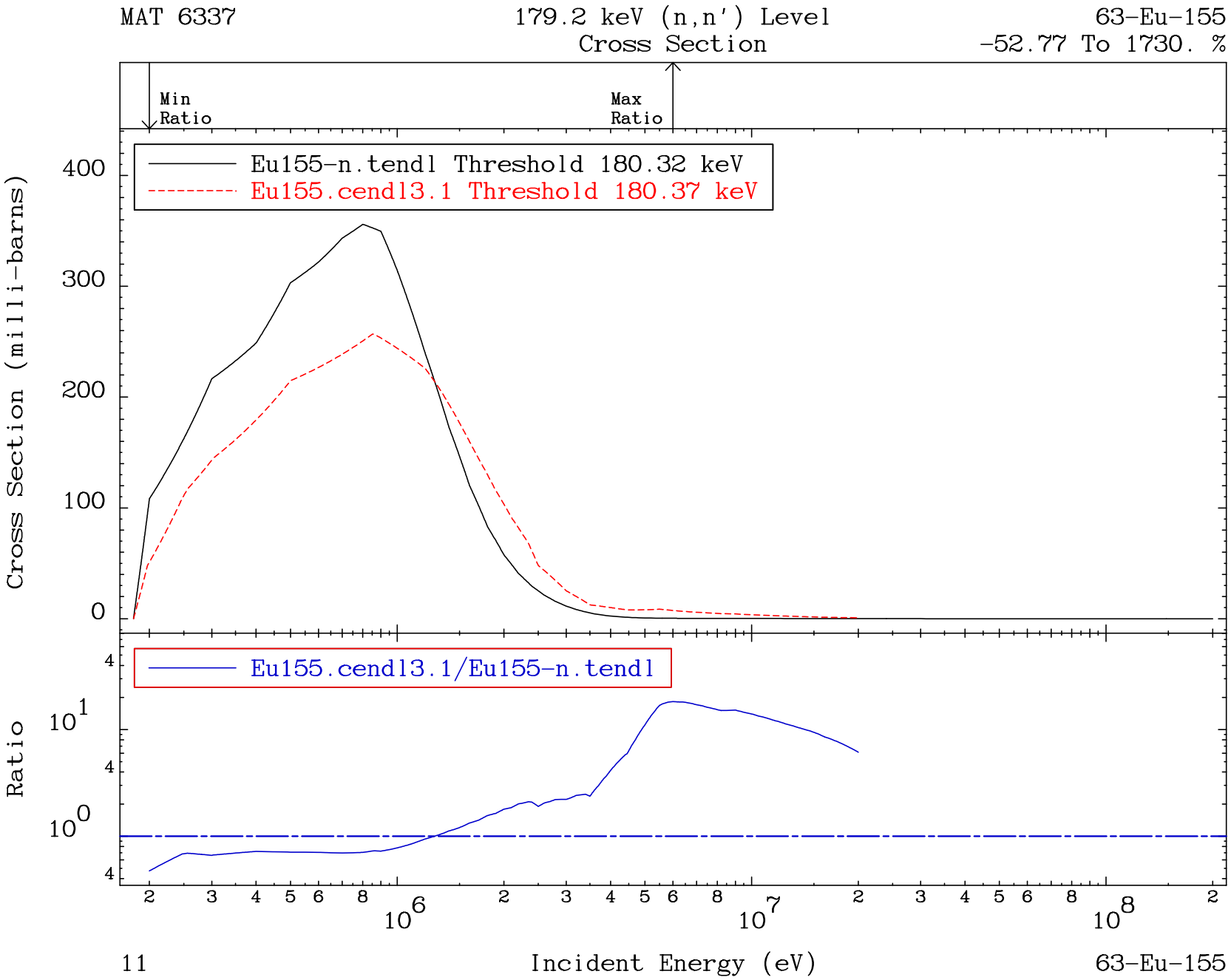

MAT 6337
(n,n') α
Cross Section
63-Eu-155
100.6 To 9999. %
Max Ratio
Min Ratio
Eu155-n.tendl Threshold 862.26 keV
Eu155.cendl3.1 Threshold 861.83 keV
Cross Section (milli-barns)
50
40
30
20
10
0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^12
10^8
10^4
10^0
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
6
Incident Energy (eV)
63-Eu-155

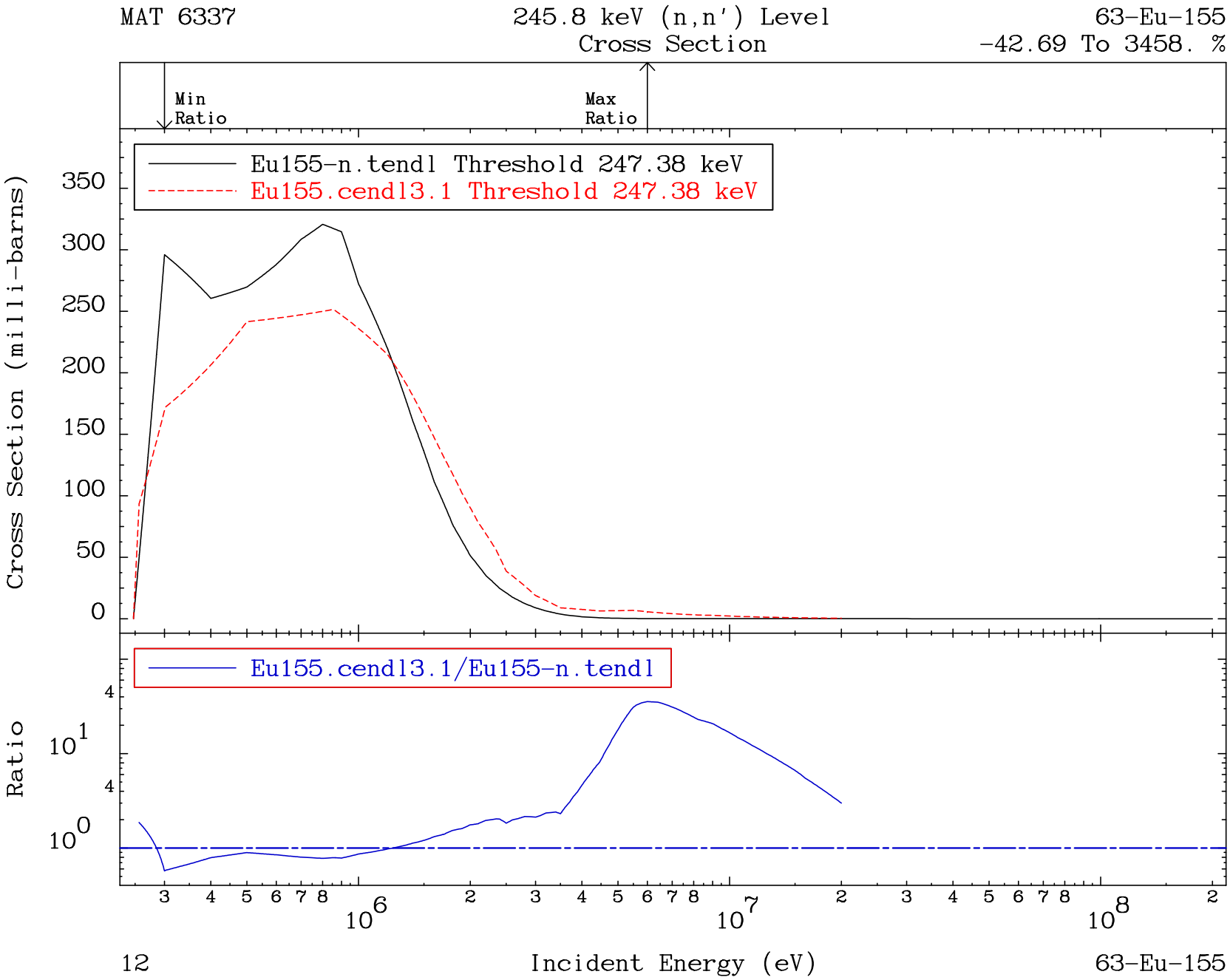

MAT 6337
(n,n') p
Cross Section
63-Eu-155
-30.11 To 9999. %
Max Ratio
Min Ratio
Eu155-n.tendl Threshold 6.6949 MeV
Eu155.cendl3.1 Threshold 6.6960 MeV
Cross Section (milli-barns)
60
40
20
0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^12
10^8
10^4
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
63-Eu-155

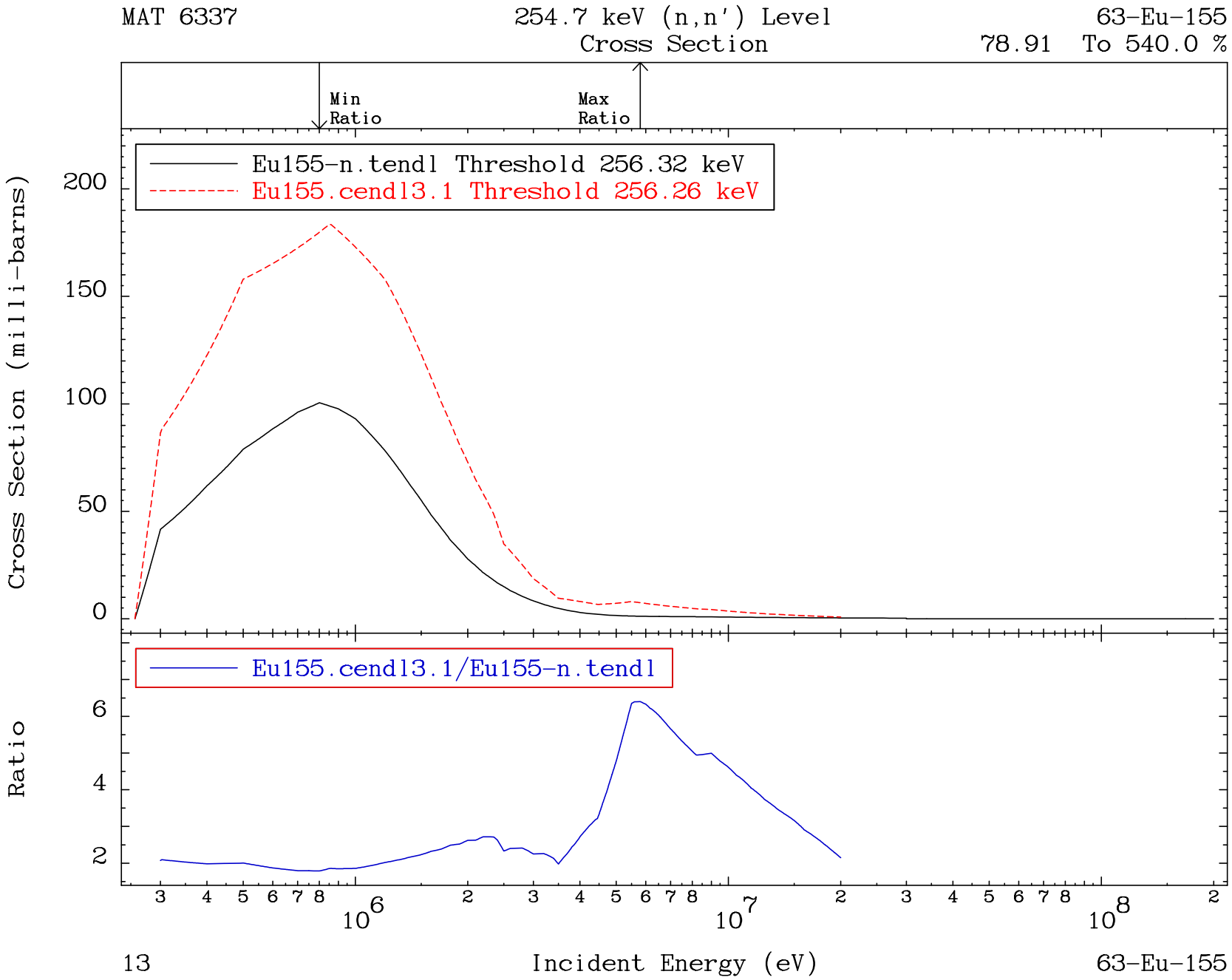

MAT 6337
78.64 keV (n,n') Level
Cross Section
63-Eu-155
-46.17 To 9999. %
Min Ratio
Max Ratio
Eu155-n.tendl Threshold 79.150 keV
Eu155.cendl3.1 Threshold 79.112 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^3
10^2
10^1
10^0
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
8
Incident Energy (eV)
63-Eu-155

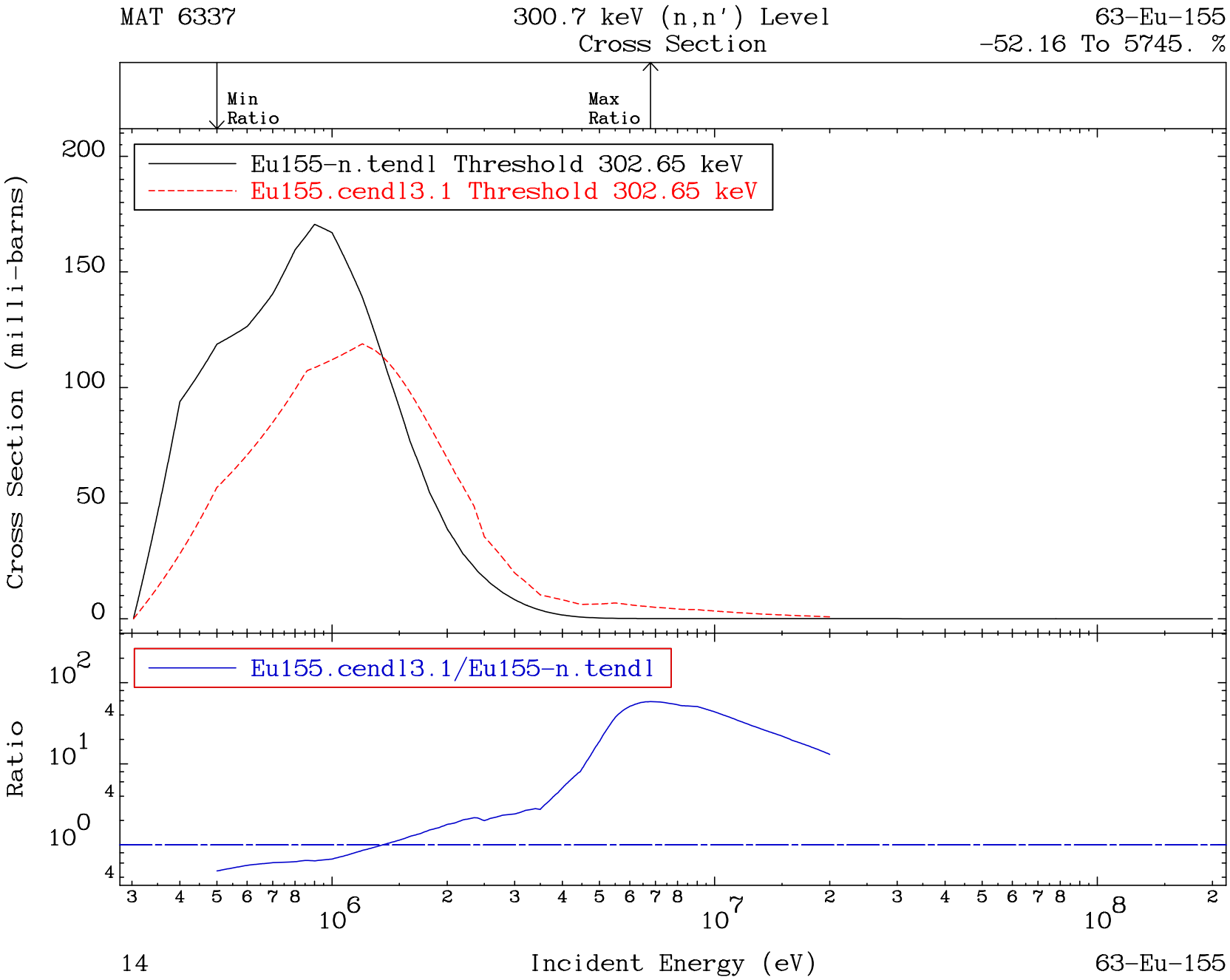

MAT 6337
104.3 keV (n,n') Level
Cross Section
63-Eu-155
-28.59 To 9999. %
Min Ratio
Max Ratio
Eu155-n.tendl Threshold 105.01 keV
Eu155.cendl3.1 Threshold 104.98 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^3
10^2
10^1
10^0
10^5
10^6
10^7
10^8
Incident Energy (eV)
9
63-Eu-155

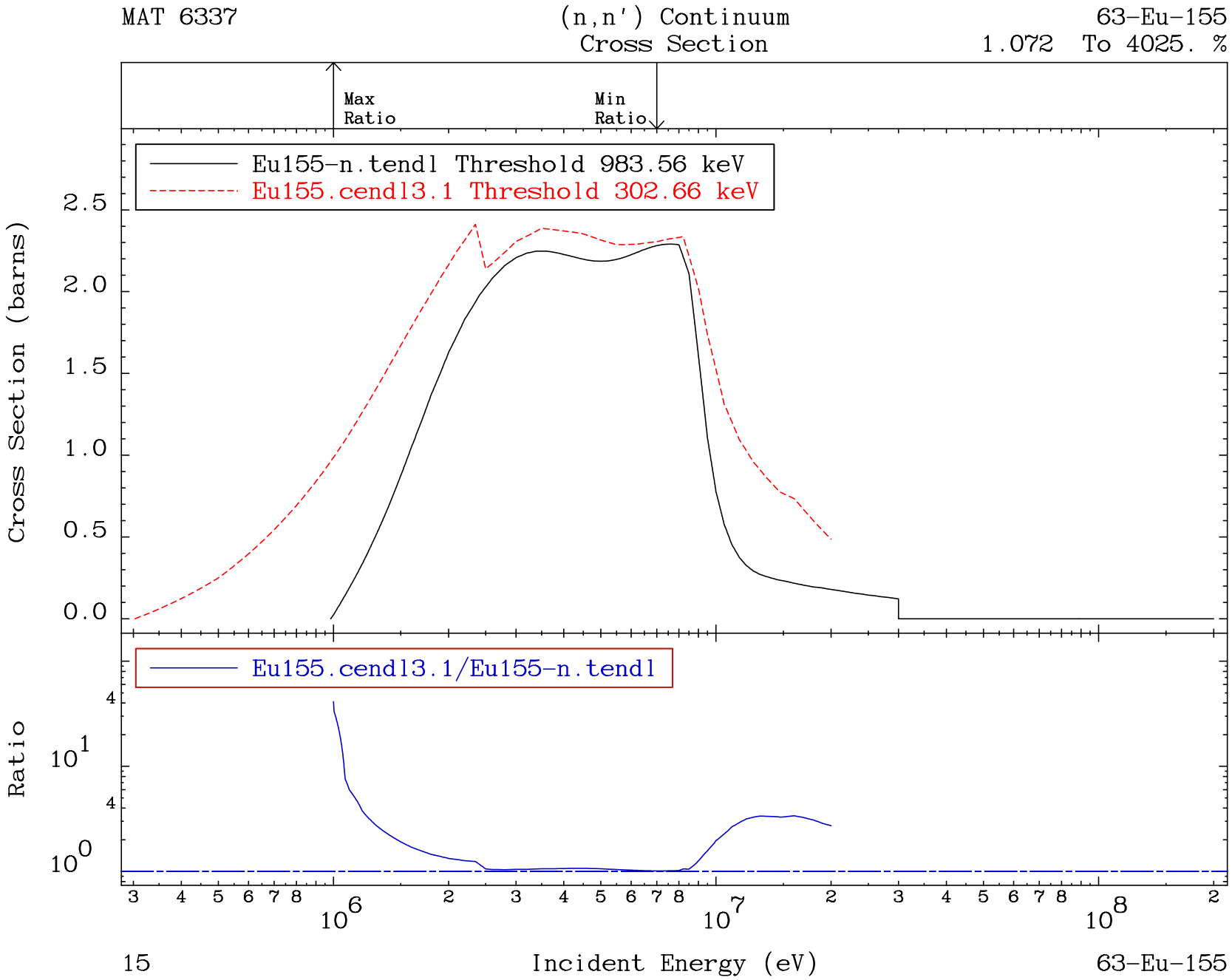

MAT 6337
169.0 keV (n,n') Level
Cross Section
63-Eu-155
69.86 To 9999. %
Min Ratio
Max Ratio
Eu155-n.tendl Threshold 170.11 keV
Eu155.cendl3.1 Threshold 170.11 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^3
10^2
10^1
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
63-Eu-155

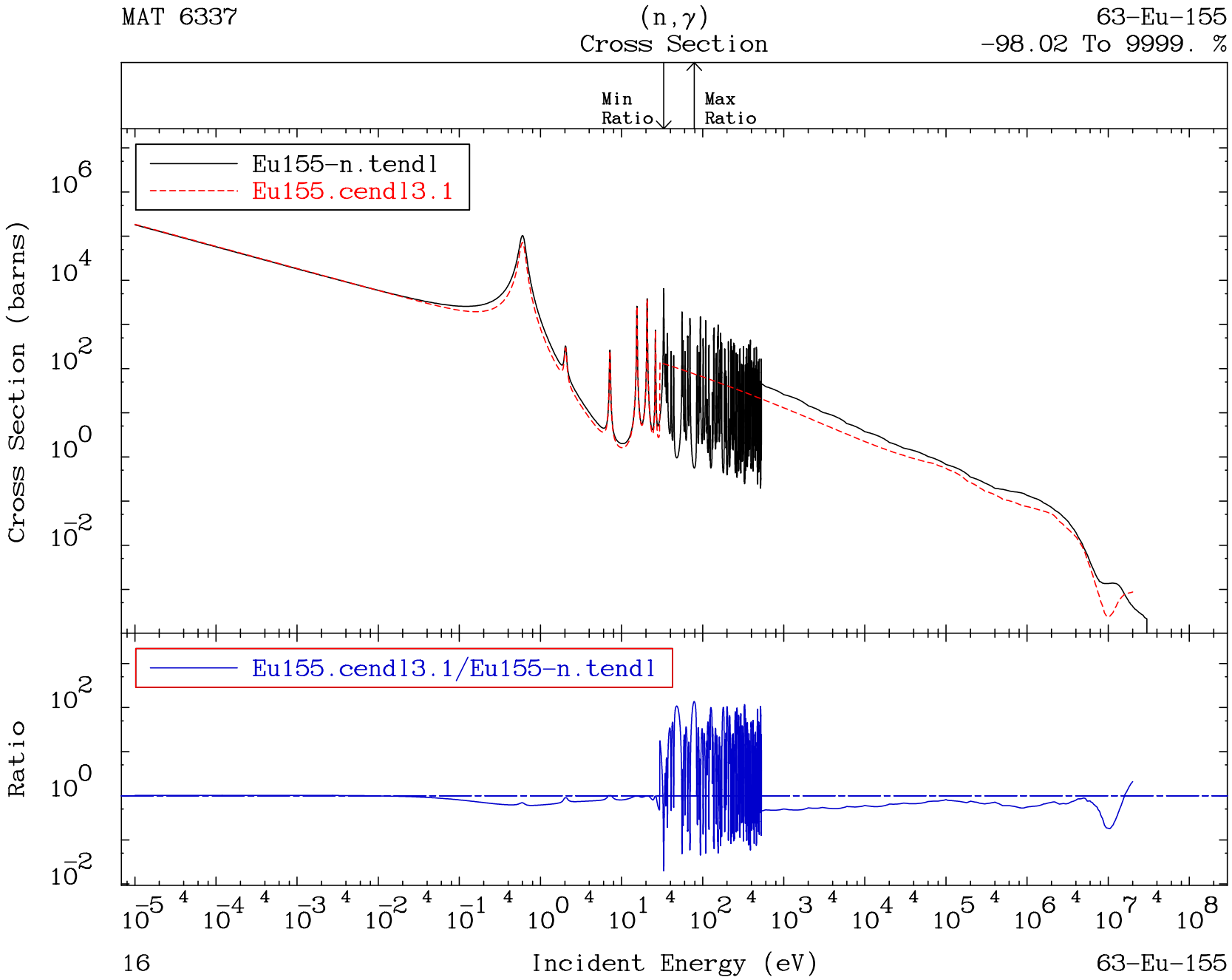

MAT 6337
179.2 keV (n,n') Level
Cross Section
63-Eu-155
-52.77 To 1730. %
Min Ratio
Max Ratio
Eu155-n.tendl Threshold 180.32 keV
Eu155.cendl3.1 Threshold 180.37 keV
Cross Section (milli-barns)
400
300
200
100
0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^1
10^0
4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
63-Eu-155

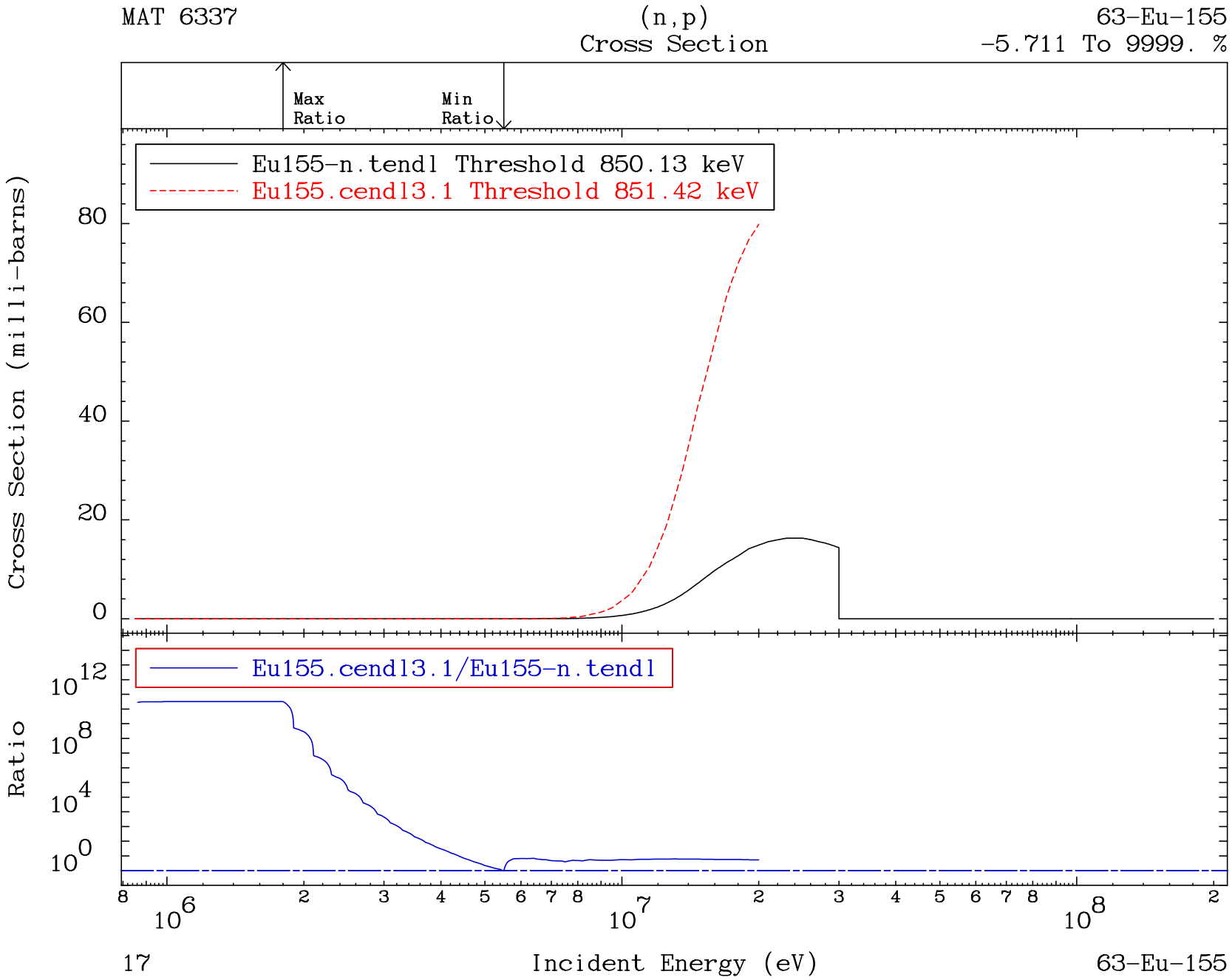

MAT 6337
245.8 keV (n,n') Level
Cross Section
63-Eu-155
-42.69 To 3458. %
Min Ratio
Max Ratio
Eu155-n.tendl Threshold 247.38 keV
Eu155.cendl3.1 Threshold 247.38 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^1
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
12
Incident Energy (eV)
63-Eu-155

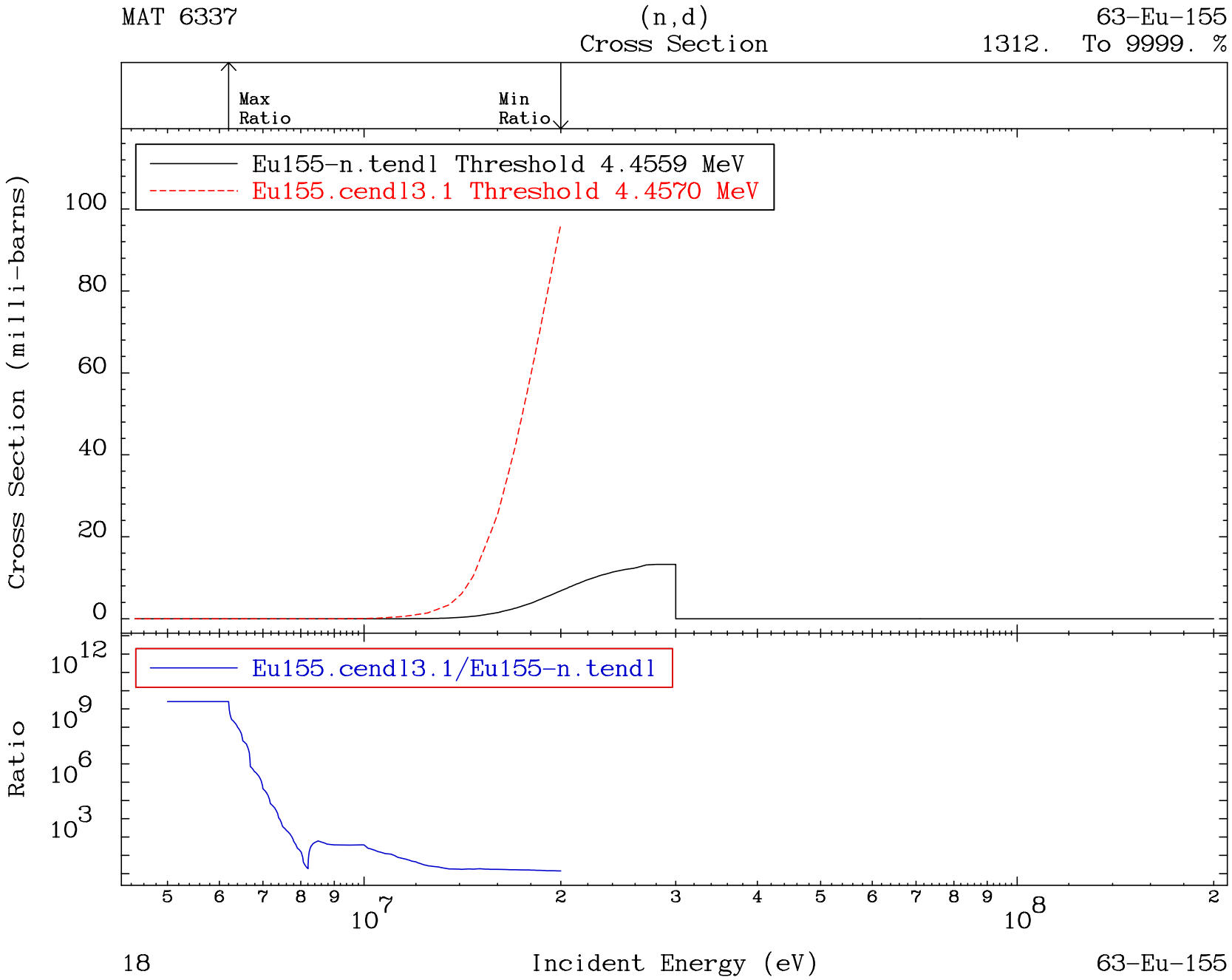

MAT 6337
254.7 keV (n,n') Level
Cross Section
63-Eu-155
78.91 To 540.0 %
Min Ratio
Max Ratio
Eu155-n.tendl Threshold 256.32 keV
Eu155.cendl3.1 Threshold 256.26 keV
Cross Section (milli-barns)
200
150
100
50
0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
6
4
2
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
63-Eu-155

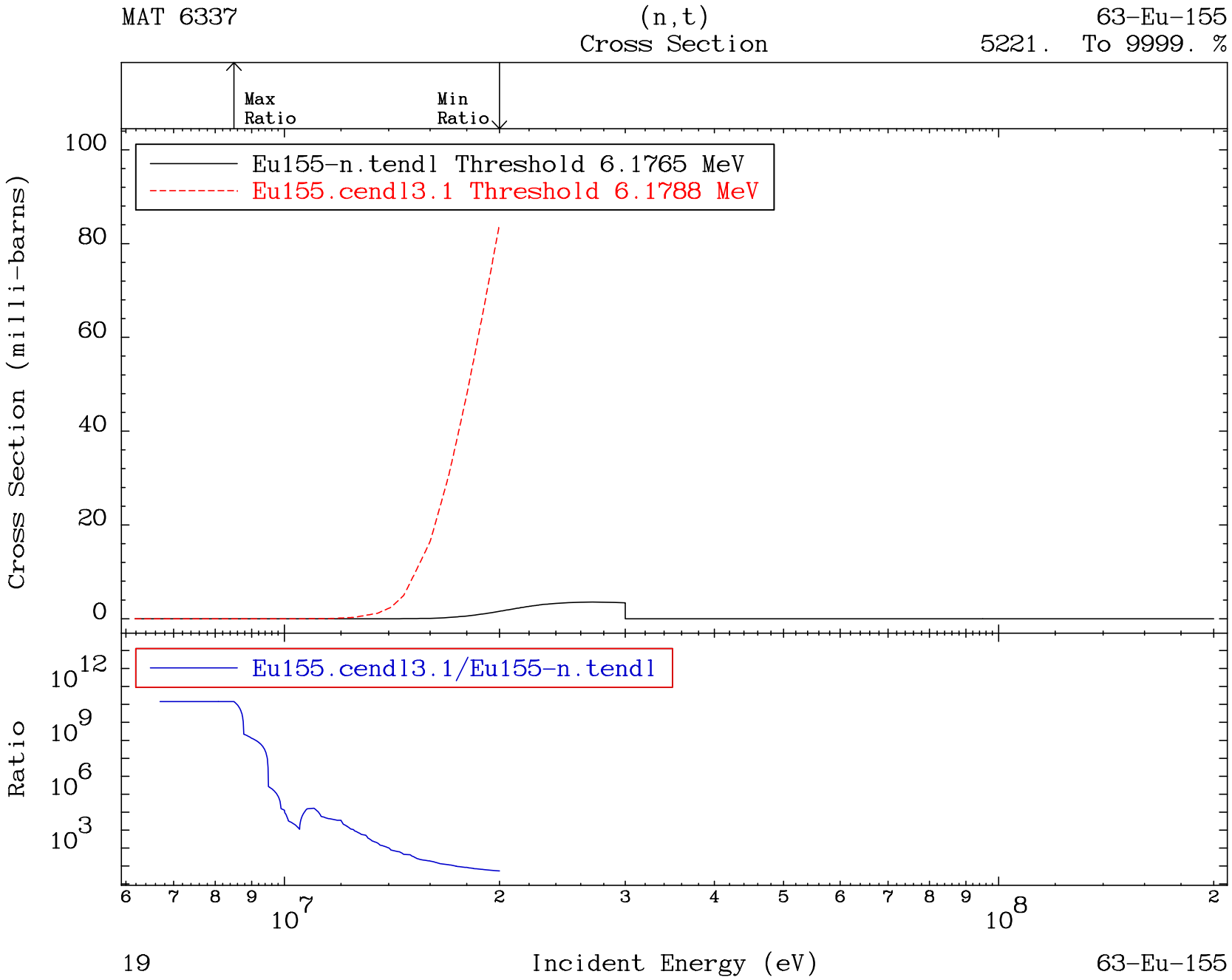

MAT 6337
300.7 keV (n,n') Level
Cross Section
63-Eu-155
-52.16 To 5745. %
Min
Ratio
Max
Ratio
Eu155-n.tendl Threshold 302.65 keV
Eu155.cendl3.1 Threshold 302.65 keV
Cross Section (milli-barns)
200
150
100
50
0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^2
10^1
10^0
4
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
63-Eu-155

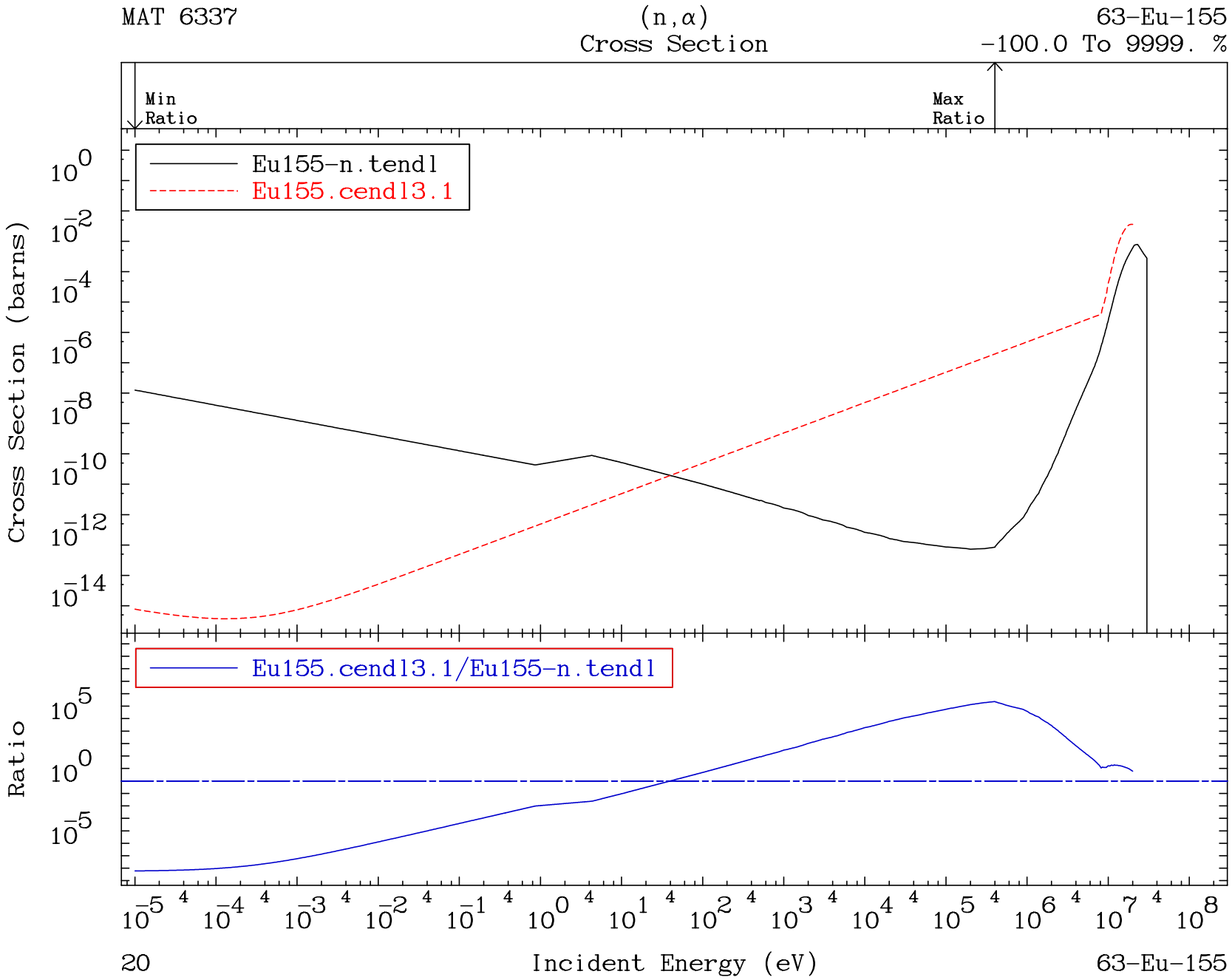

MAT 6337
(n,n') Continuum
Cross Section
63-Eu-155
1.072 To 4025. %
Max Ratio
Min Ratio
Eu155-n.tendl Threshold 983.56 keV
Eu155.cendl3.1 Threshold 302.66 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^1
4
4
10^0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
63-Eu-155

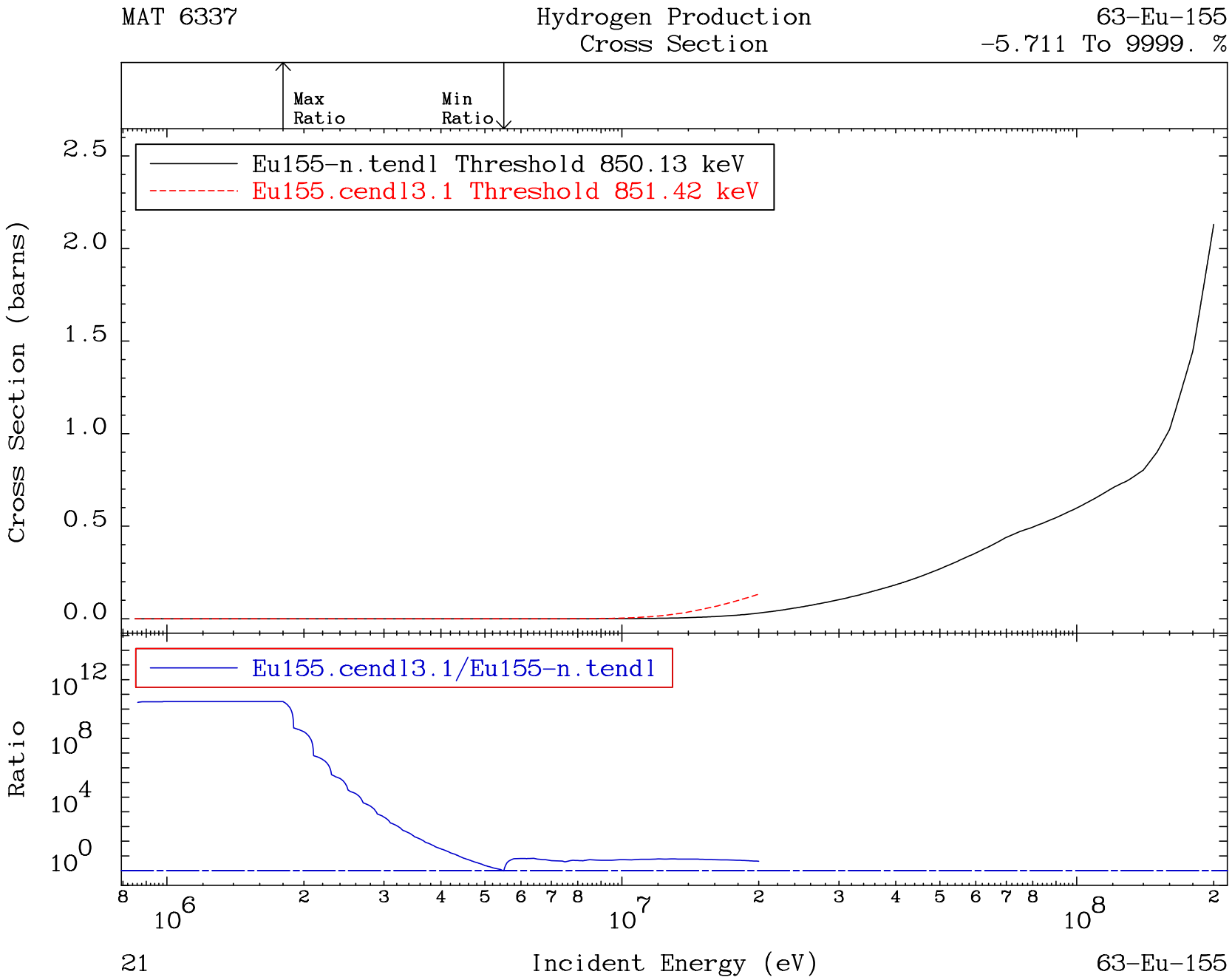

MAT 6337
(n,γ)
Cross Section
63-Eu-155
-98.02 To 9999. %
Min Ratio
Max Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
16
63-Eu-155

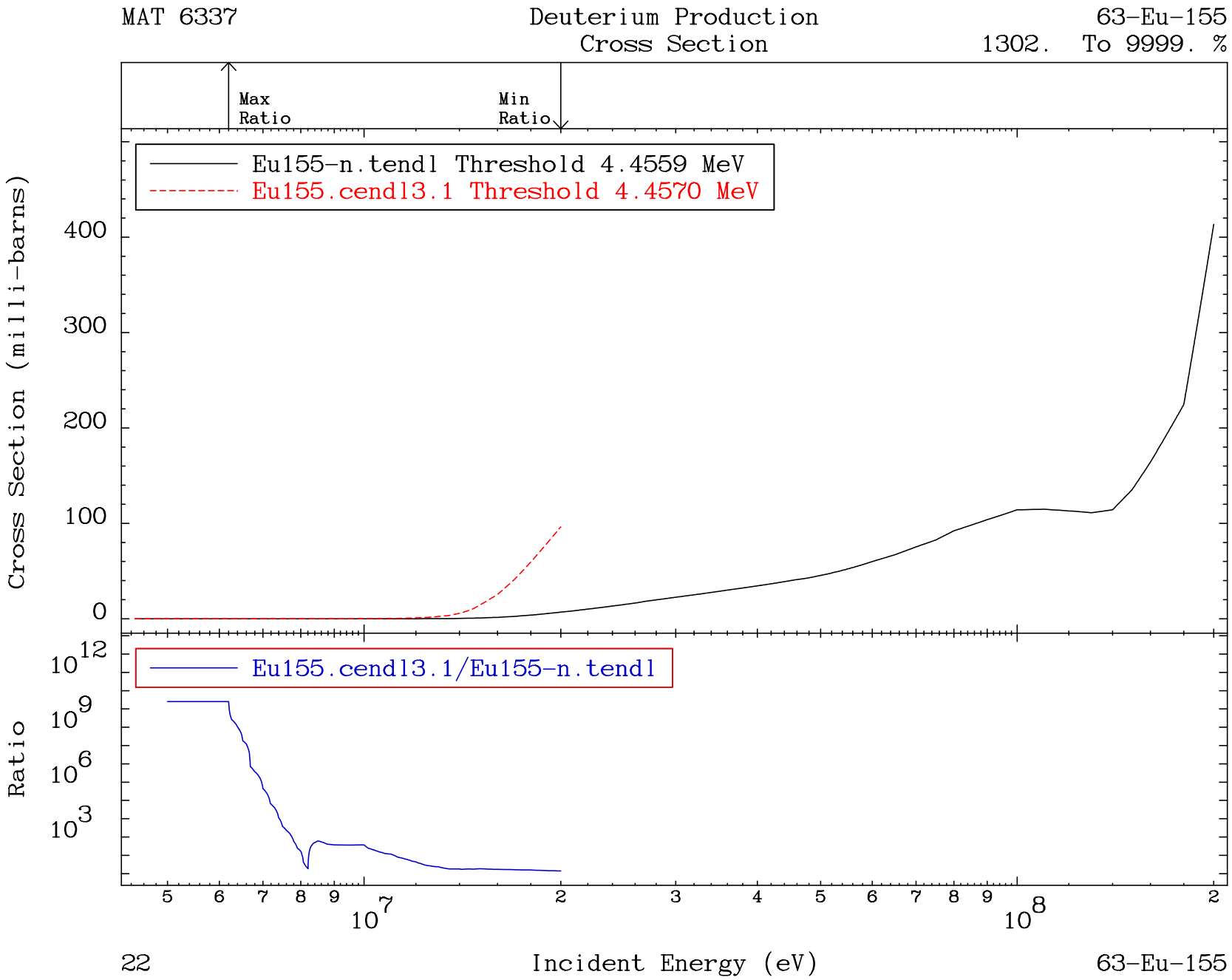

MAT 6337
(n,p)
Cross Section
63-Eu-155
-5.711 To 9999. %
Max Ratio
Min Ratio
Eu155-n.tendl Threshold 850.13 keV
Eu155.cendl3.1 Threshold 851.42 keV
Cross Section (milli-barns)
0
20
40
60
80
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^{12}
10^{8}
10^{4}
10^{0}
8
10^{6}
2
3
4
5
6
7
8
10^{7}
2
3
4
5
6
7
8
10^{8}
2
17
Incident Energy (eV)
63-Eu-155

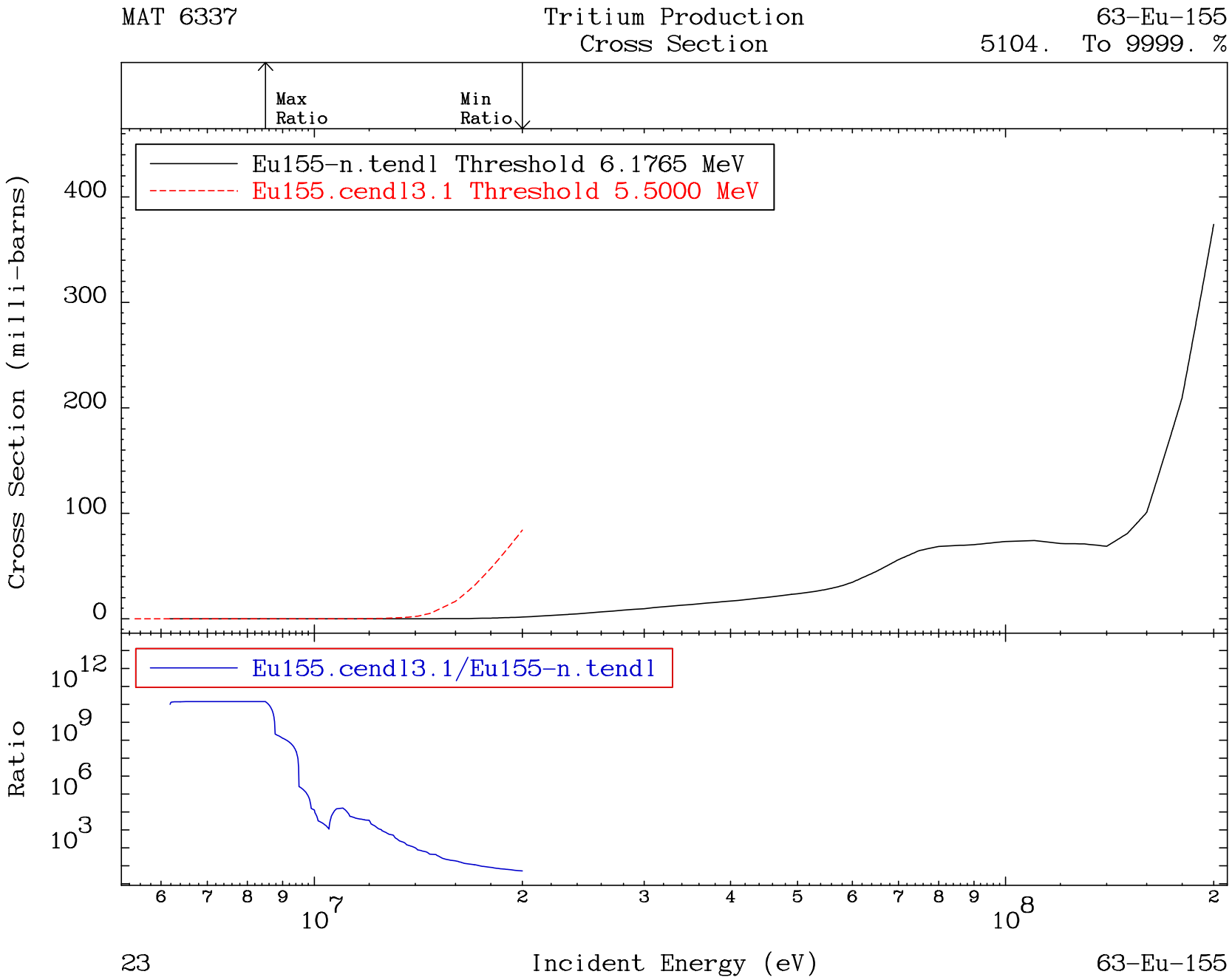

MAT 6337
(n,d)
Cross Section
63-Eu-155
1312. To 9999. %
Max Ratio
Min Ratio
Eu155-n.tendl Threshold 4.4559 MeV
Eu155.cendl3.1 Threshold 4.4570 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^12
10^9
10^6
10^3
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
63-Eu-155

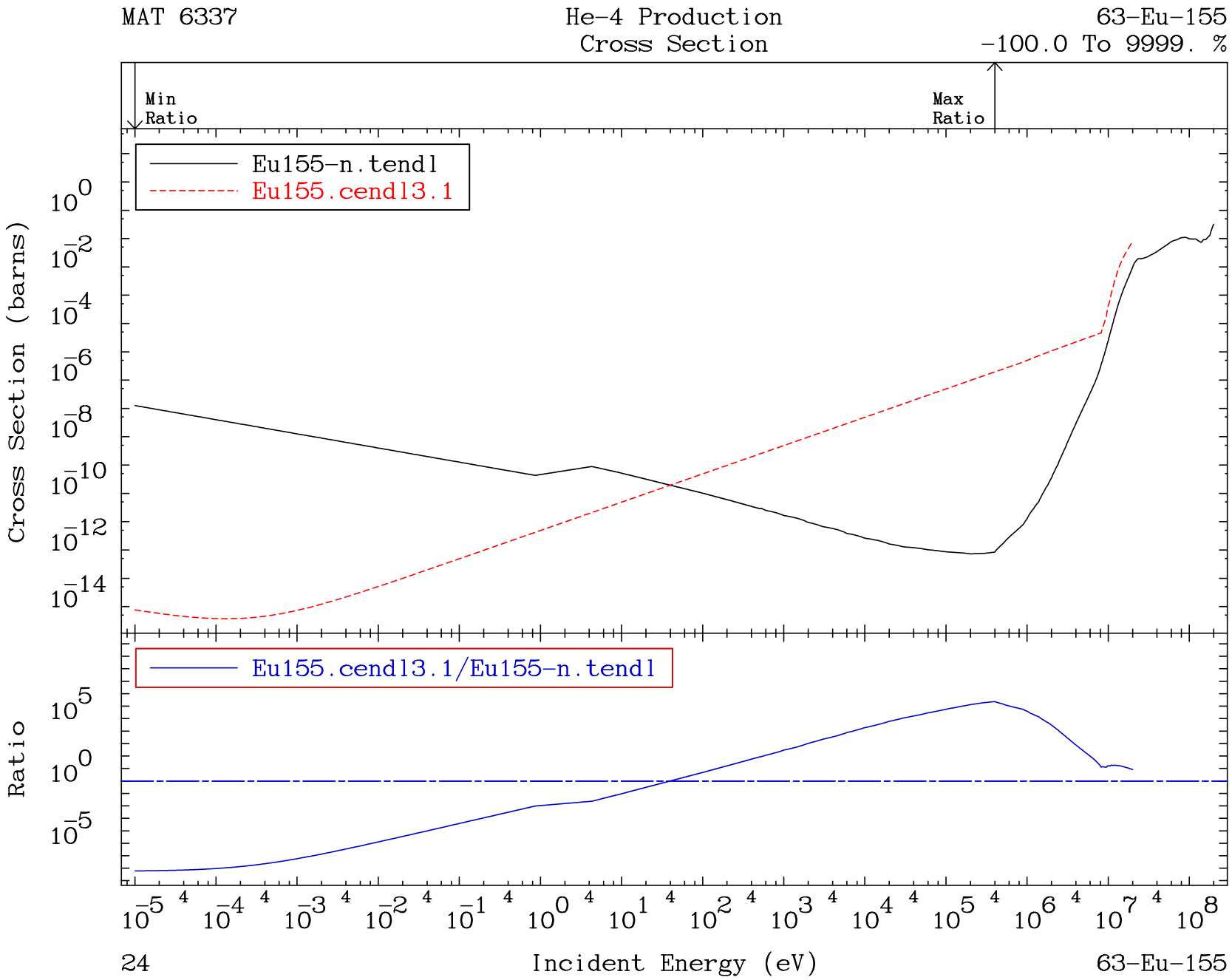

MAT 6337
(n,t)
Cross Section
63-Eu-155
5221. To 9999. %
Max Ratio
Min Ratio
Eu155-n.tendl Threshold 6.1765 MeV
Eu155.cendl3.1 Threshold 6.1788 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^12
10^9
10^6
10^3
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
63-Eu-155

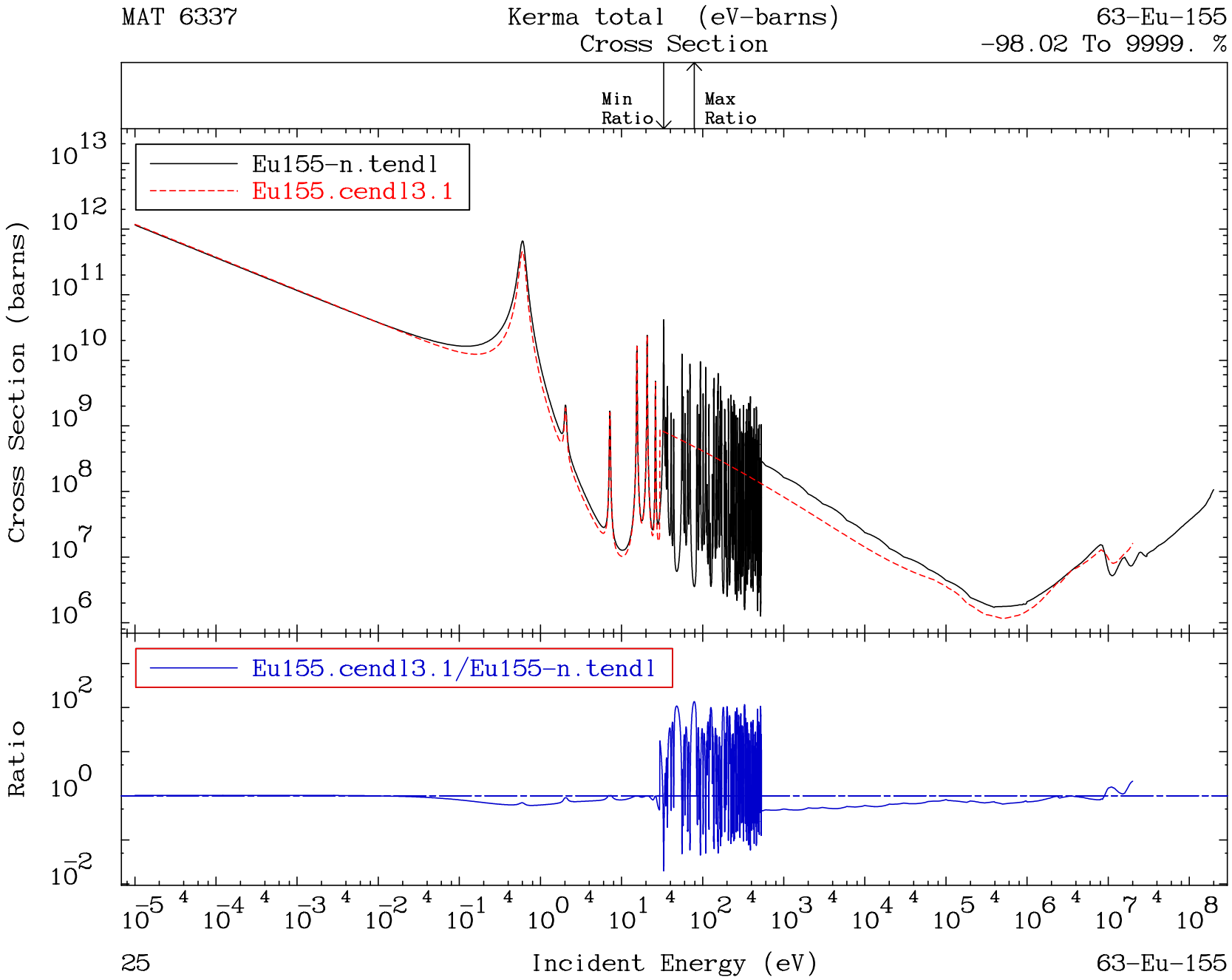

MAT 6337
(n,α)
Cross Section
63-Eu-155
-100.0 To 9999. %
Min Ratio
Max Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
20
63-Eu-155

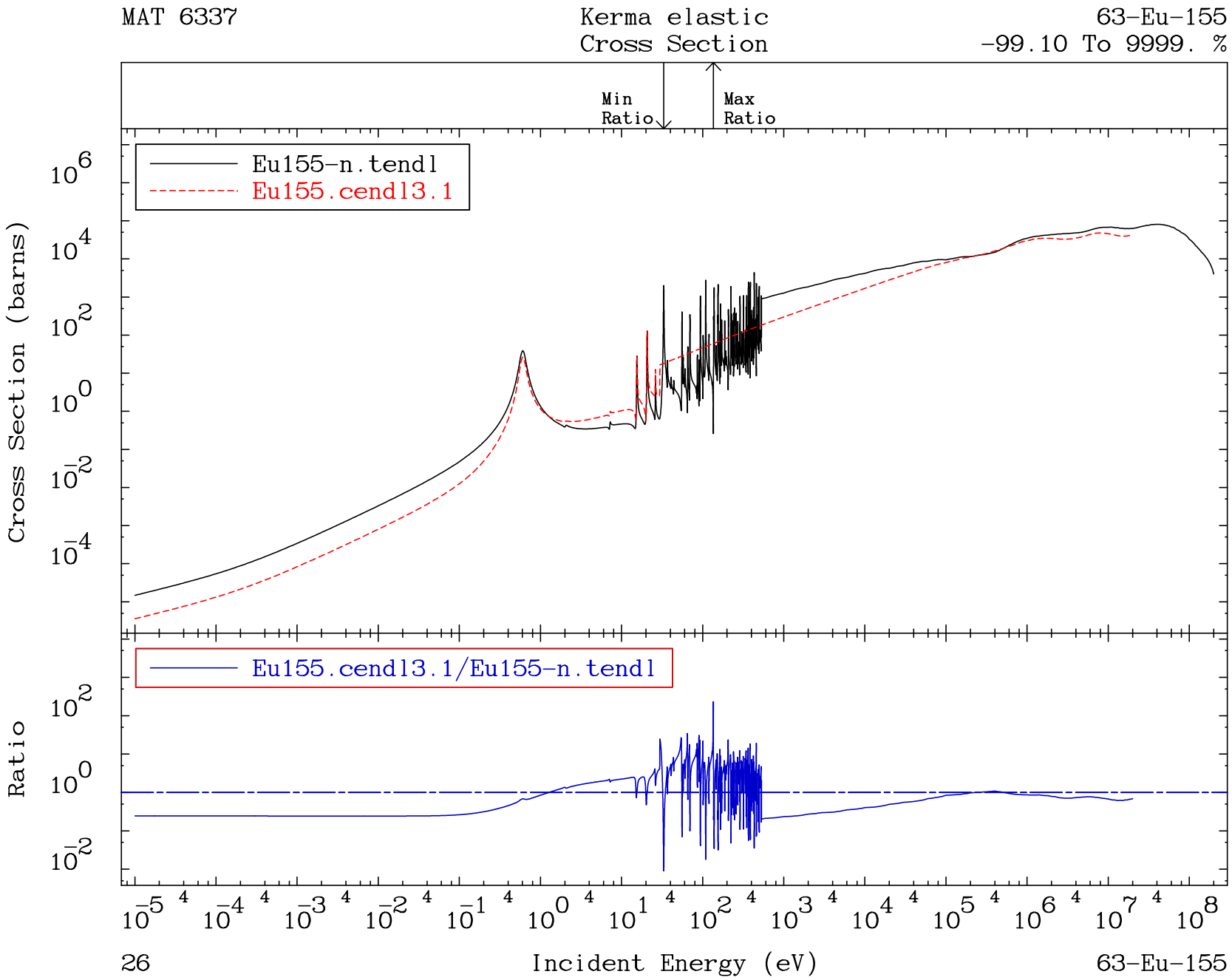

MAT 6337
Hydrogen Production
Cross Section
63-Eu-155
-5.711 To 9999. %
Max Ratio
Min Ratio
Eu155-n.tendl Threshold 850.13 keV
Eu155.cendl3.1 Threshold 851.42 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^12
10^8
10^4
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
63-Eu-155

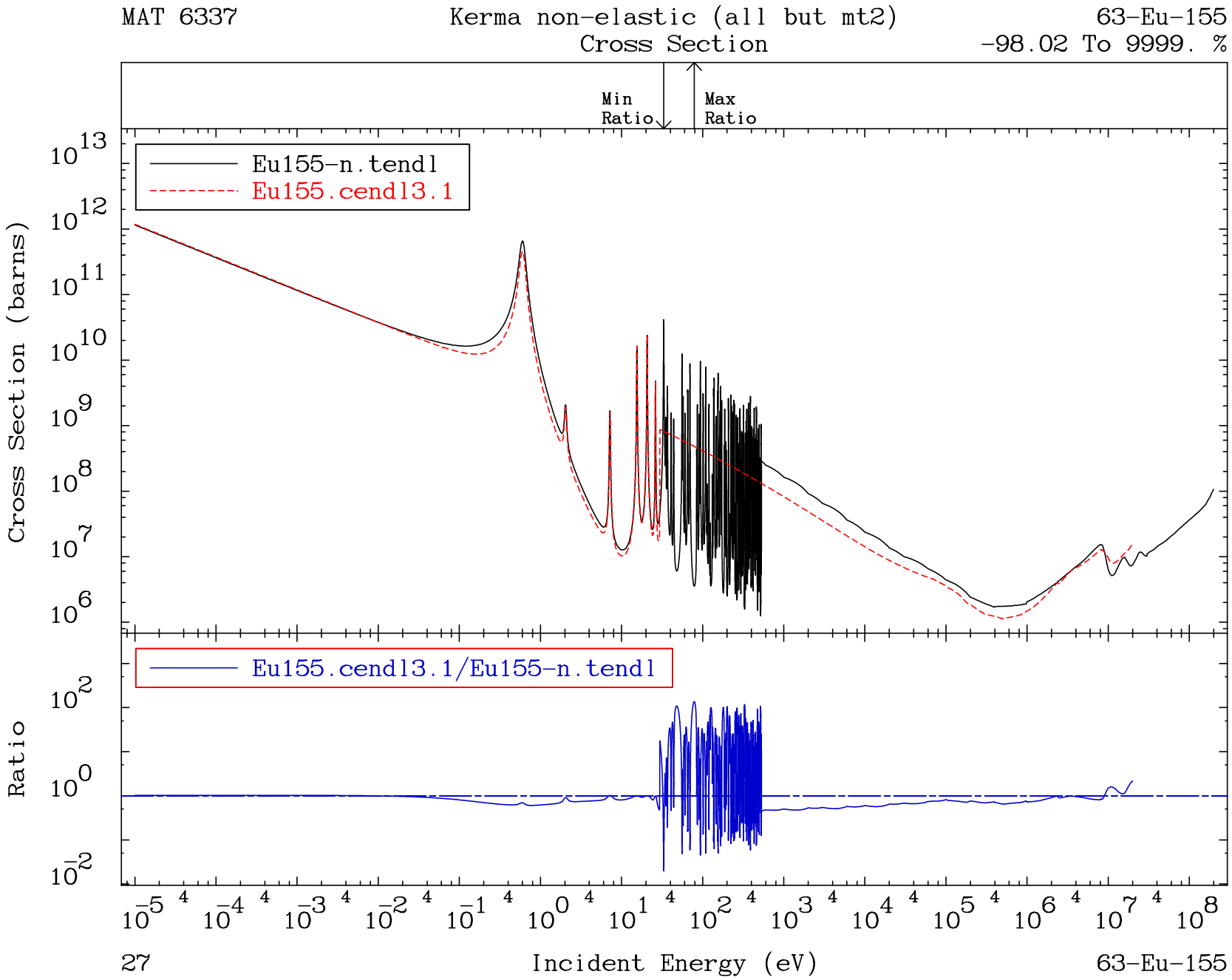

MAT 6337
Deuterium Production
Cross Section
63-Eu-155
1302. To 9999. %
Max Ratio
Min Ratio
Eu155-n.tendl Threshold 4.4559 MeV
Eu155.cendl3.1 Threshold 4.4570 MeV
Cross Section (milli-barns)
400
300
200
100
0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^12
10^9
10^6
10^3
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
63-Eu-155

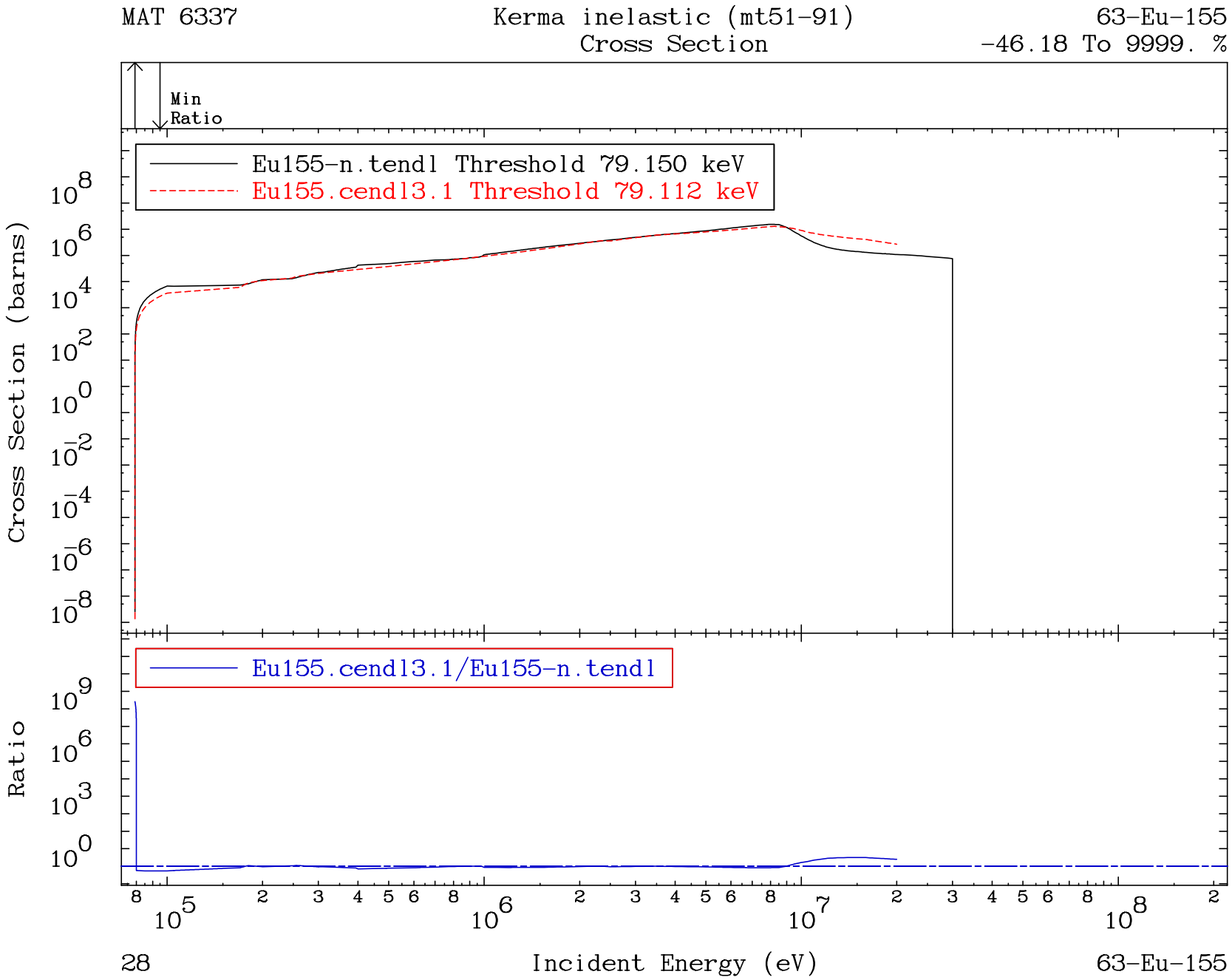

MAT 6337
Tritium Production
Cross Section
63-Eu-155
5104. To 9999. %
Max Ratio
Min Ratio
Eu155-n.tendl Threshold 6.1765 MeV
Eu155.cendl3.1 Threshold 5.5000 MeV
Cross Section (milli-barns)
400
300
200
100
0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^12
10^9
10^6
10^3
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
63-Eu-155

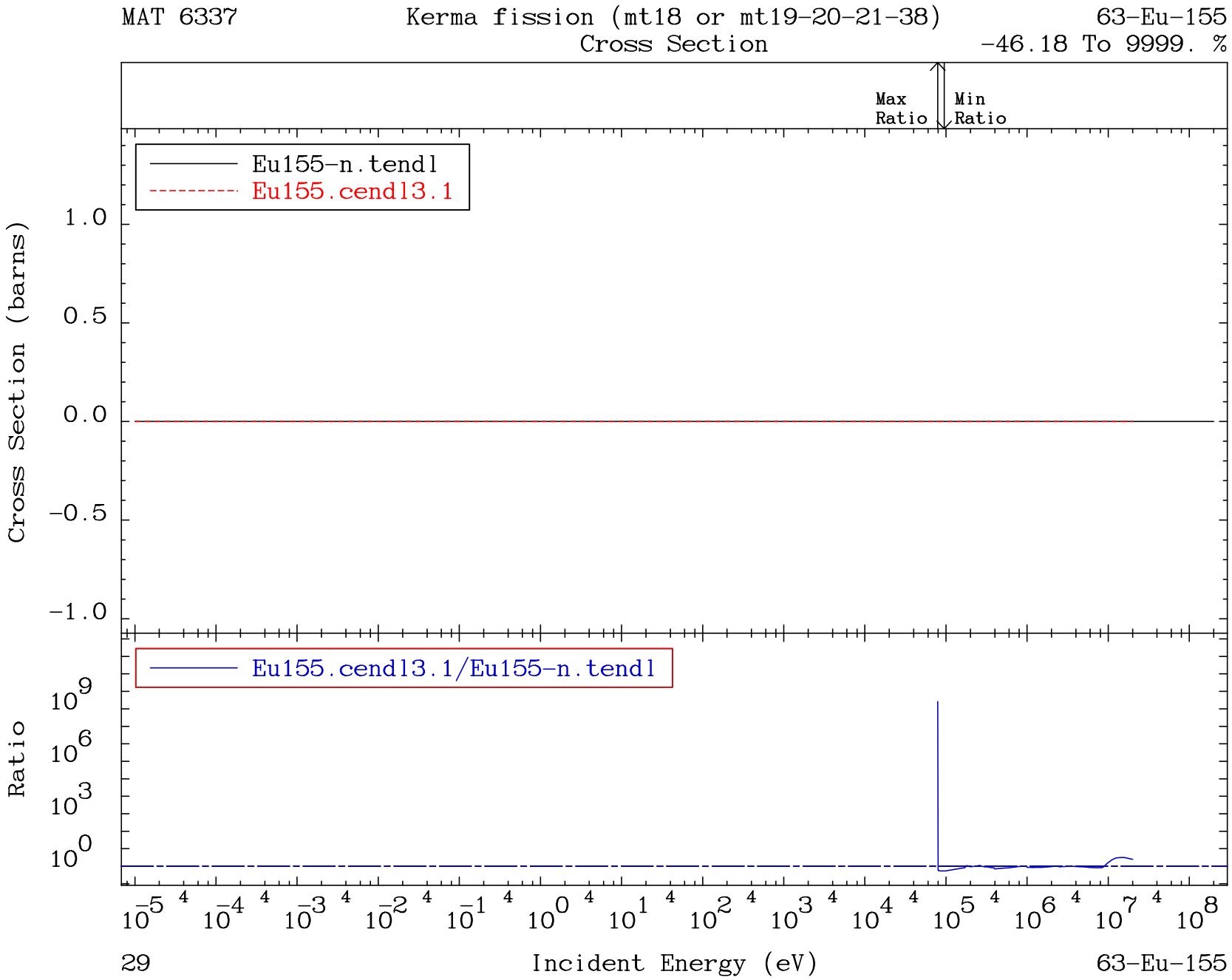

MAT 6337
He-4 Production
Cross Section
63-Eu-155
-100.0 To 9999. %
Min Ratio
Max Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
24
63-Eu-155

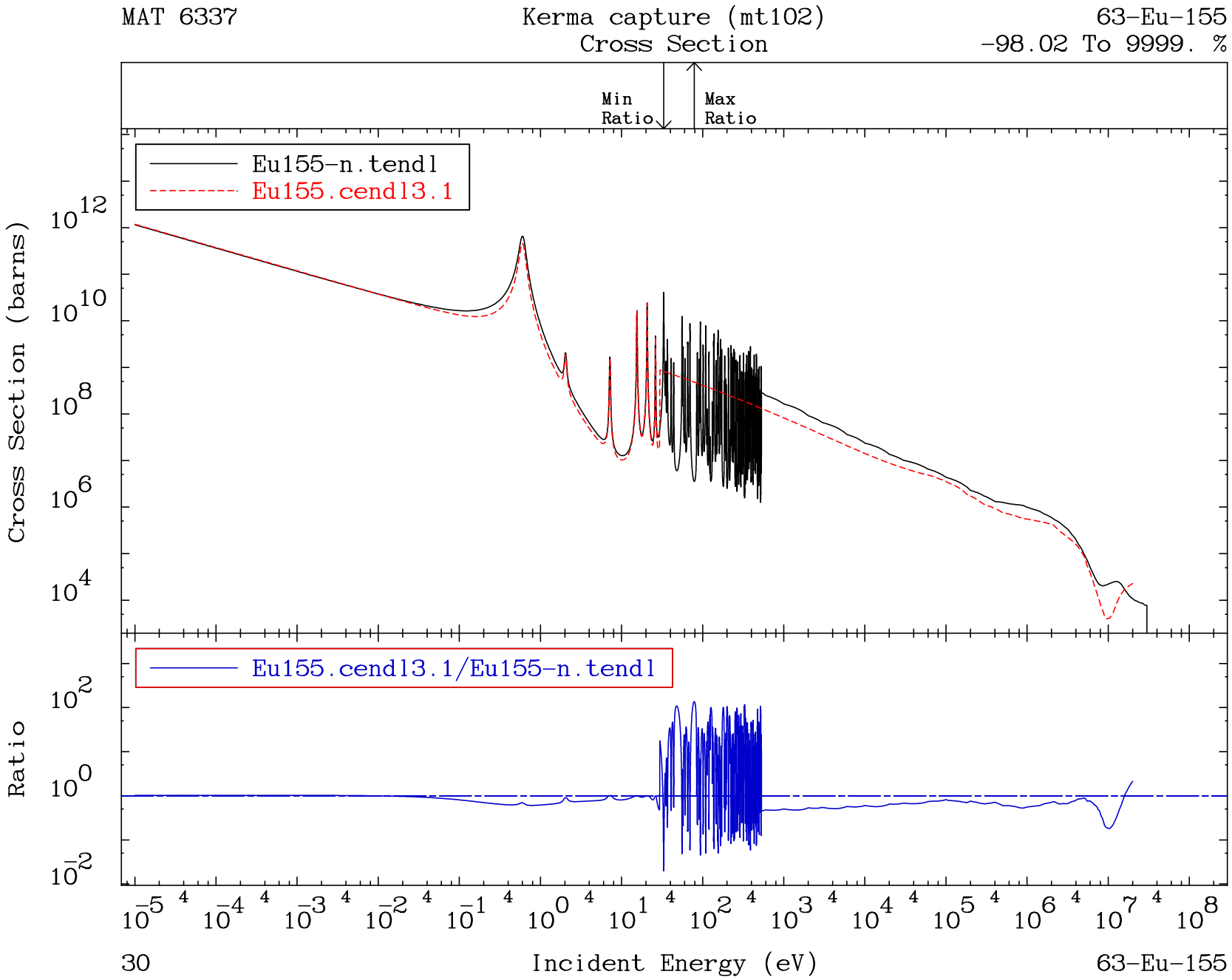

MAT 6337
Kerma total (eV-barns)
Cross Section
63-Eu-155
-98.02 To 9999. %
Min Ratio
Max Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
25
63-Eu-155

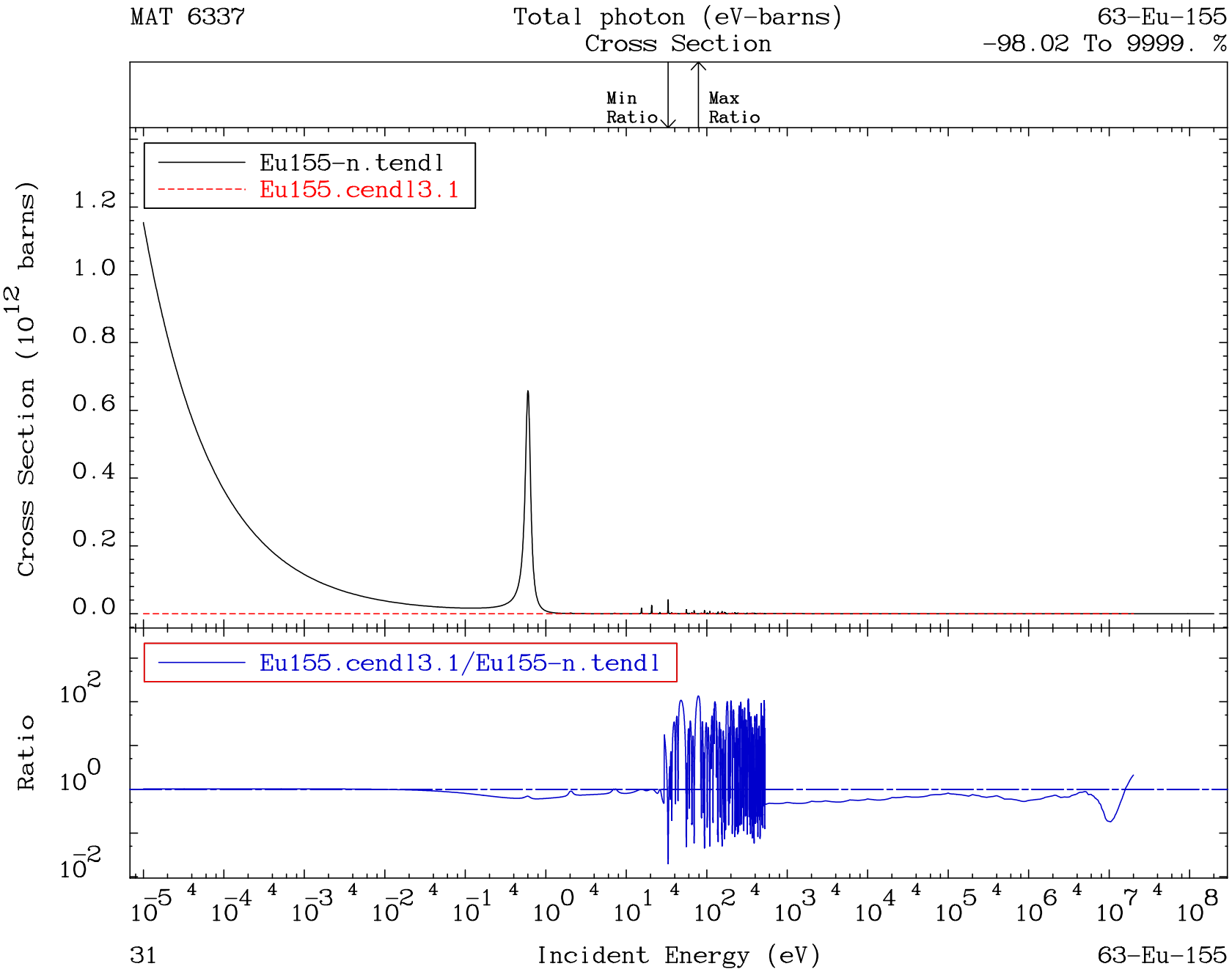

MAT 6337
Kerma elastic
Cross Section
63-Eu-155
-99.10 To 9999. %
Min
Ratio
Max
Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
26
63-Eu-155

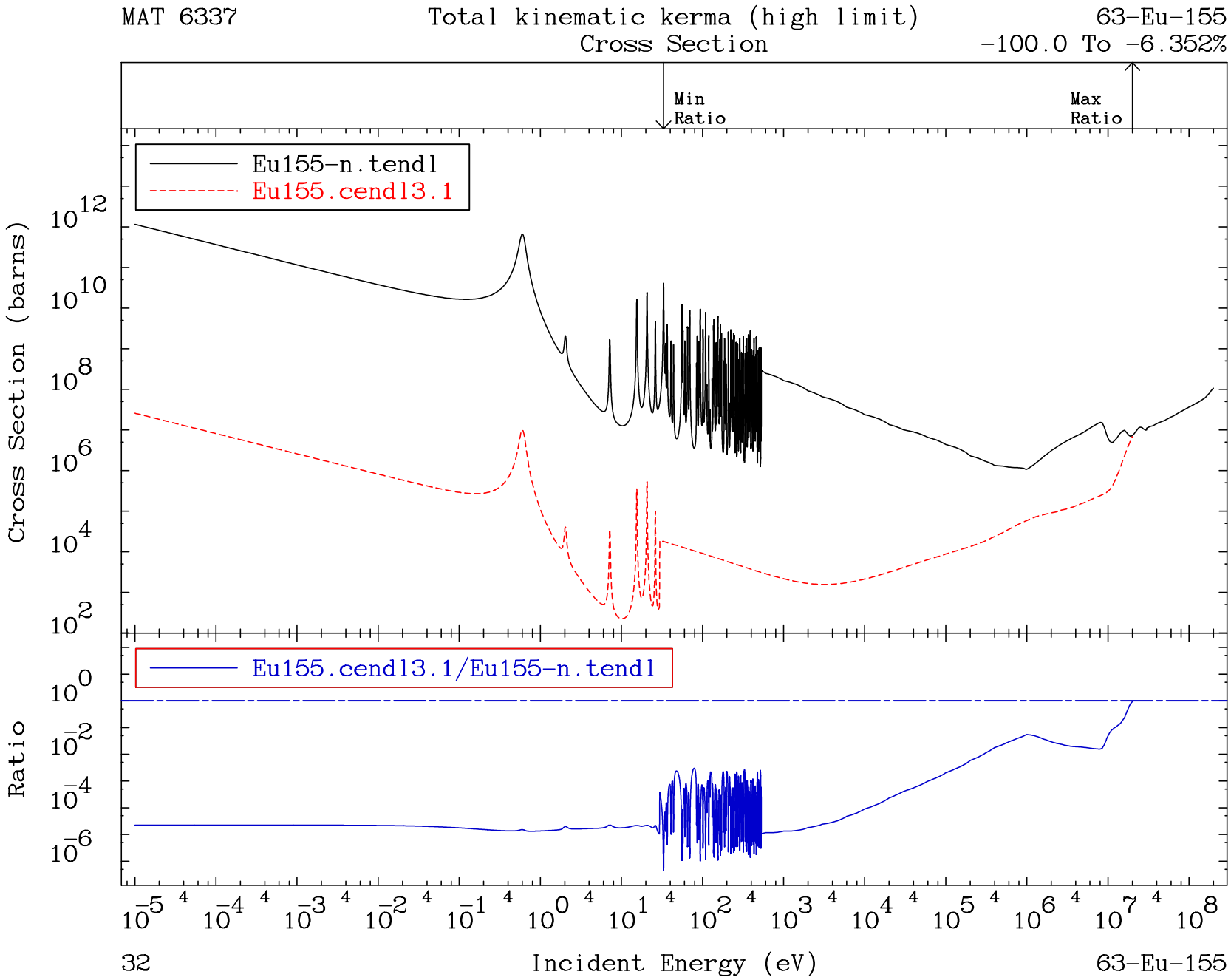

MAT 6337
Kerma non-elastic (all but mt2)
Cross Section
63-Eu-155
-98.02 To 9999. %
Min Ratio
Max Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
27
63-Eu-155

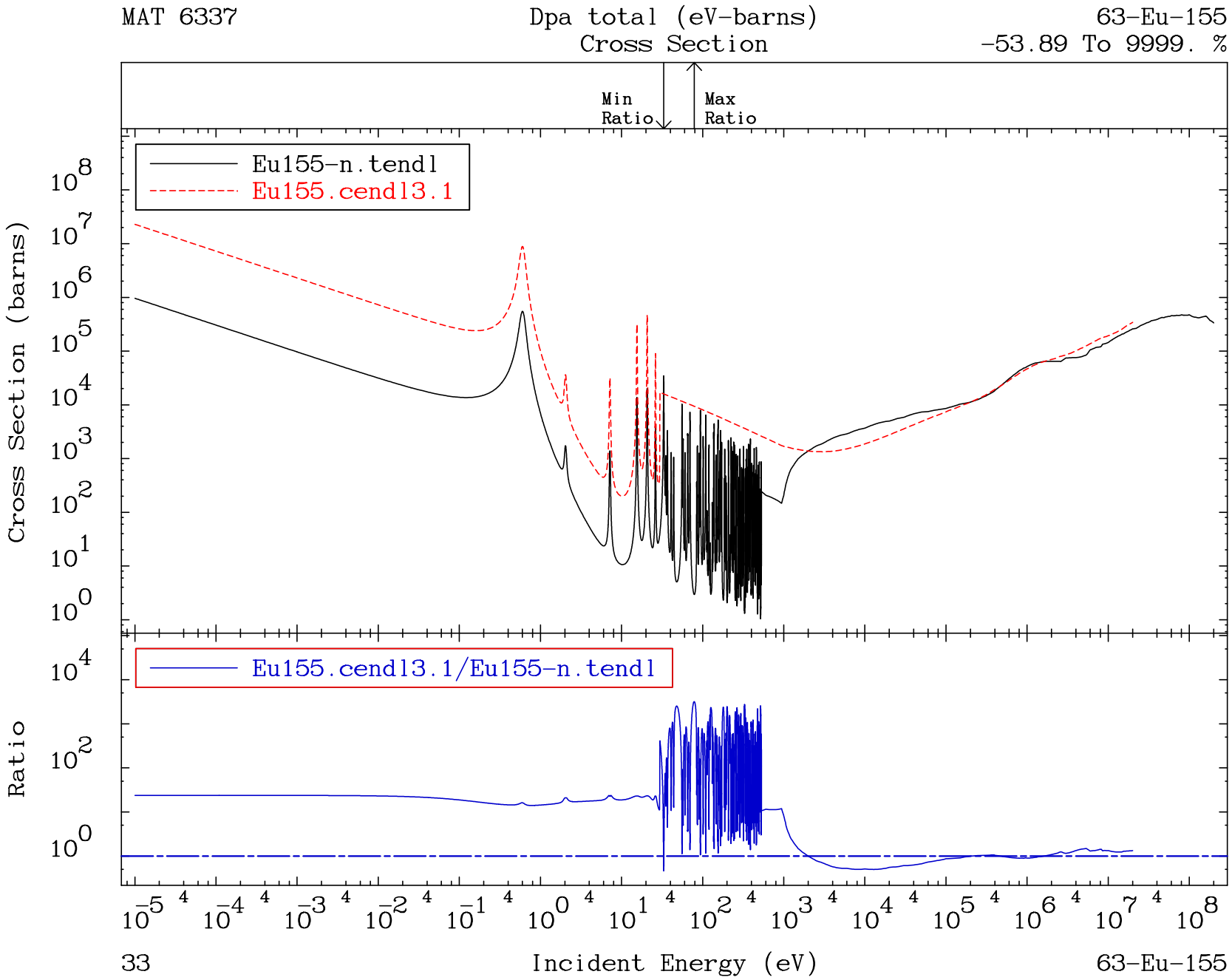

MAT 6337
Kerma inelastic (mt51-91)
Cross Section
63-Eu-155
-46.18 To 9999. %
Min
Ratio
Eu155-n.tendl Threshold 79.150 keV
Eu155.cendl3.1 Threshold 79.112 keV
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
28
63-Eu-155

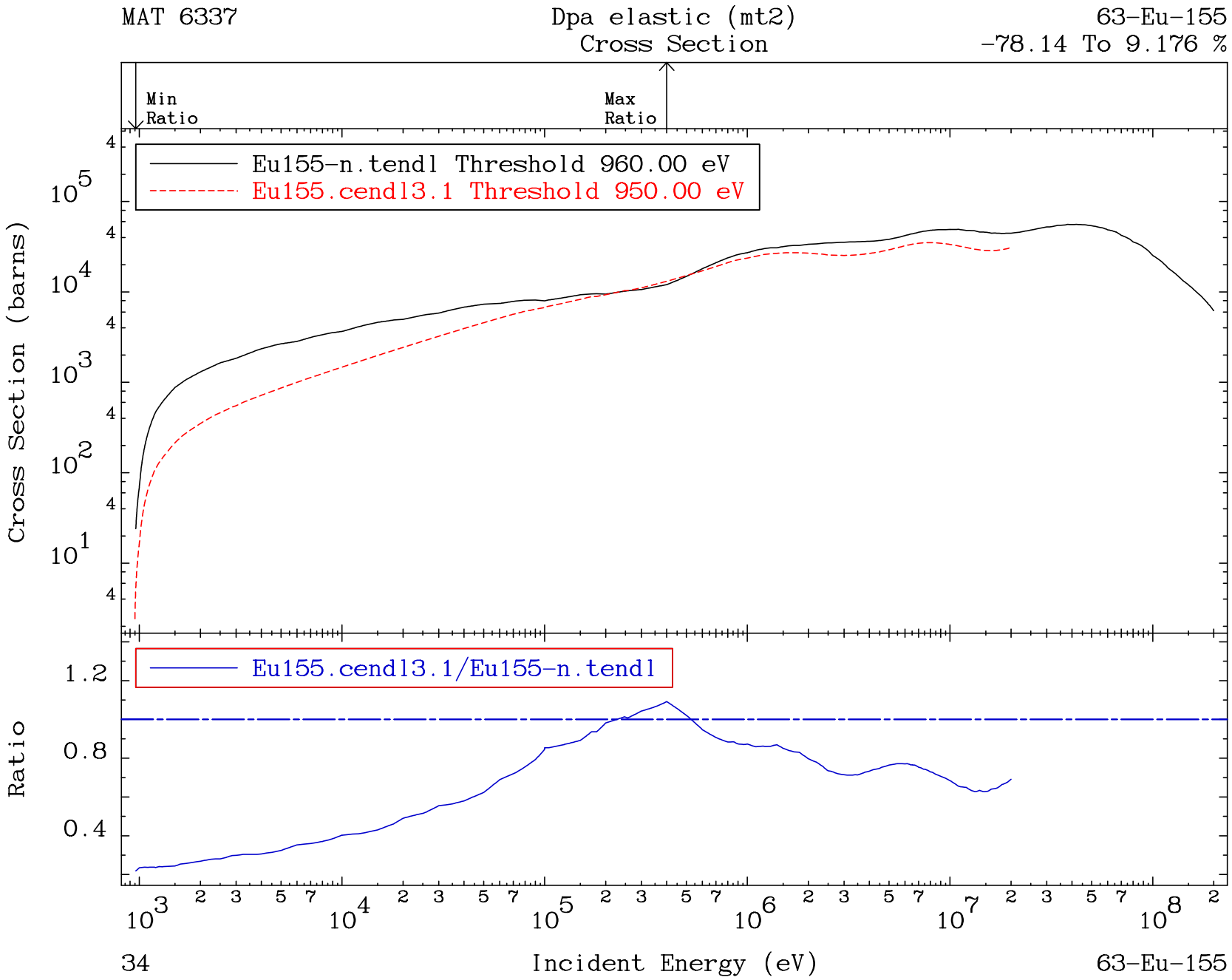

MAT 6337
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
63-Eu-155
-46.18 To 9999. %
Max Ratio
Min Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^9
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
29
Incident Energy (eV)
63-Eu-155

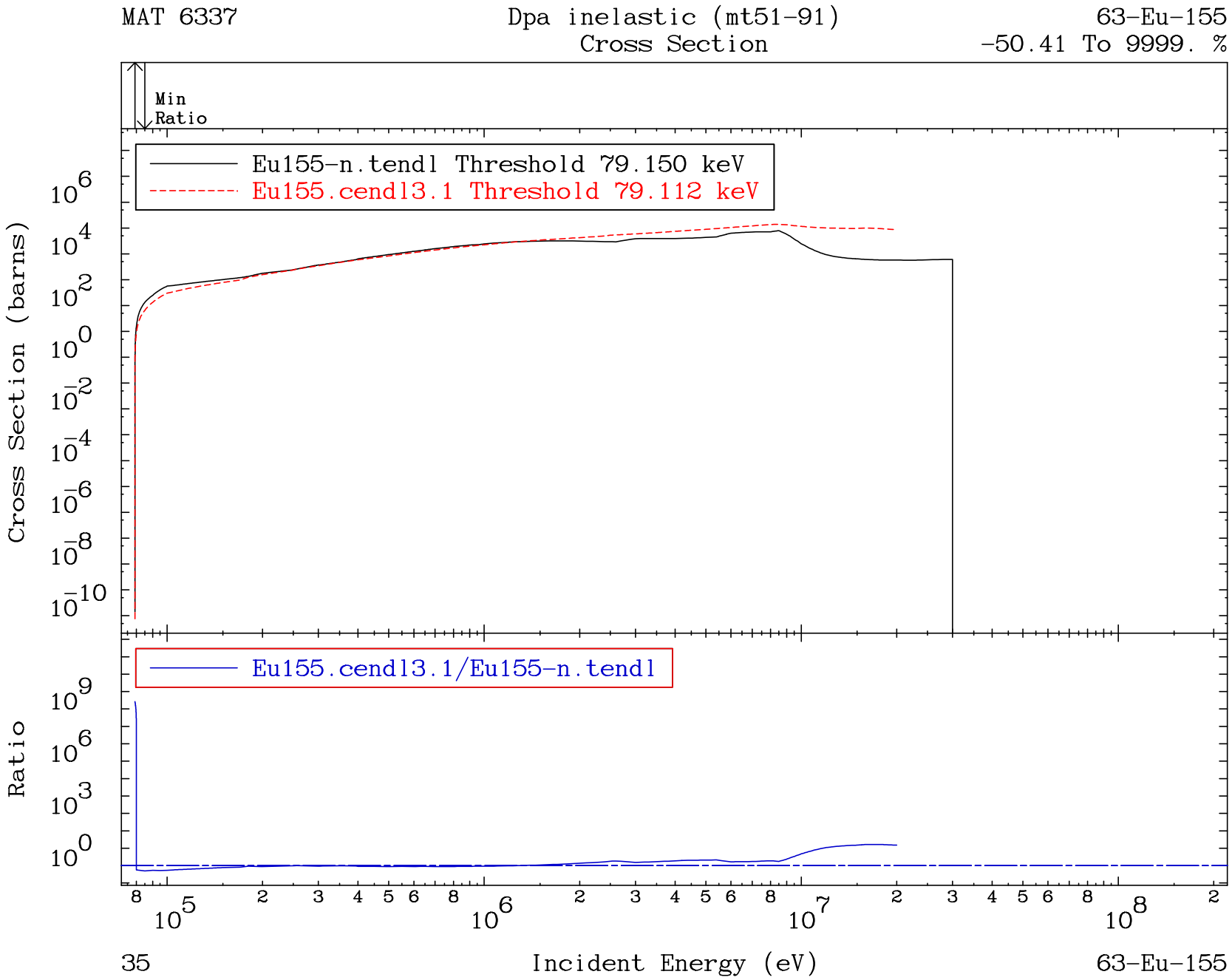

MAT 6337
Kerma capture (mt102)
Cross Section
63-Eu-155
-98.02 To 9999. %
Min Ratio
Max Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
30
63-Eu-155

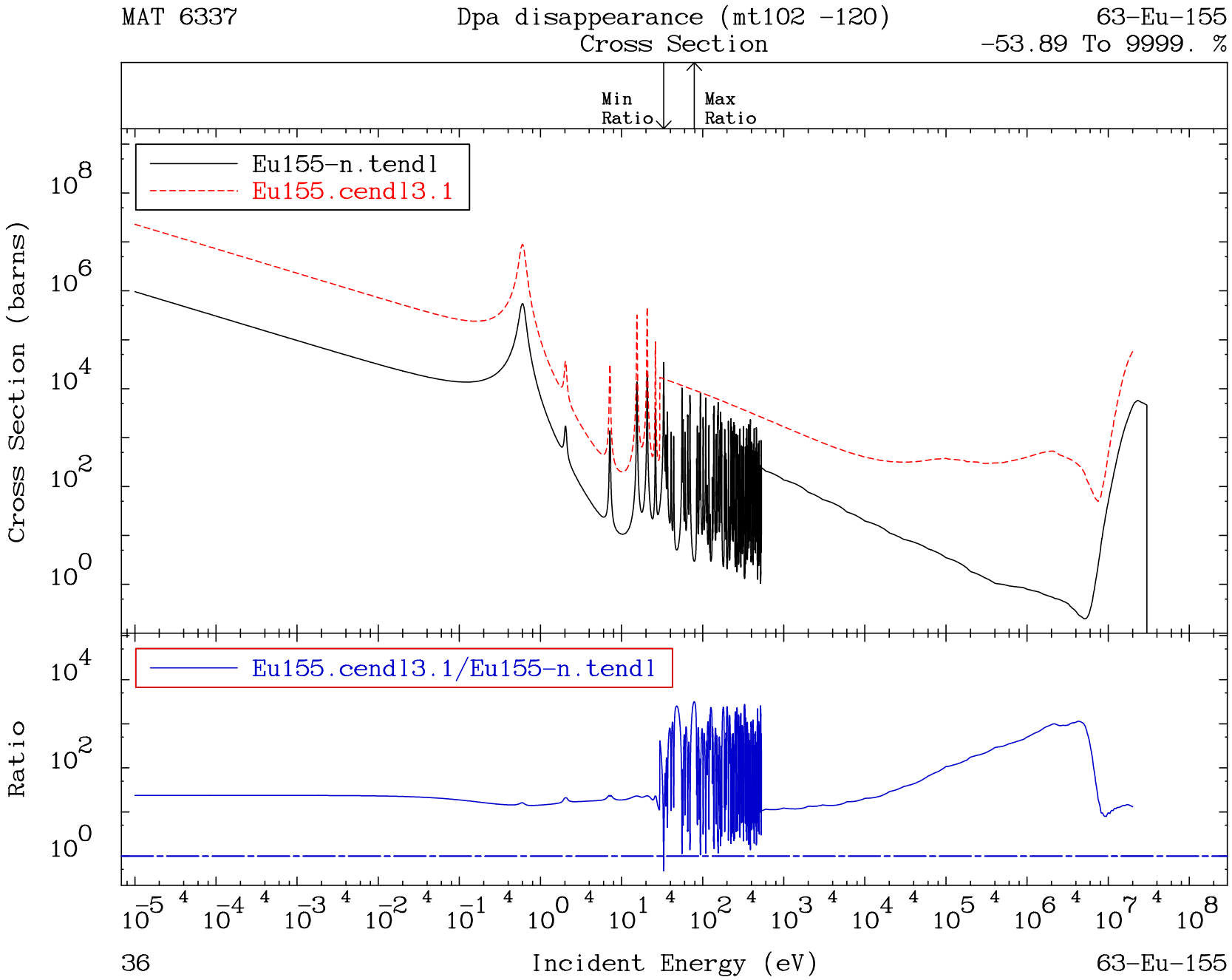

MAT 6337
Total photon (eV-barns)
Cross Section
63-Eu-155
-98.02 To 9999. %
Min Ratio
Max Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (10^{12} barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Eu155.cendl3.1/Eu155-n.tendl
Ratio
10^{2}
10^{0}
10^{-2}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
31
Incident Energy (eV)
63-Eu-155


MAT 6337
Total kinematic kerma (high limit)
Cross Section
63-Eu-155
-100.0 To -6.352%
Min Ratio
Max Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
32
63-Eu-155


MAT 6337
Dpa total (eV-barns)
Cross Section
63-Eu-155
-53.89 To 9999. %
Min Ratio
Max Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
33
Incident Energy (eV)
63-Eu-155


MAT 6337
Dpa elastic (mt2)
Cross Section
63-Eu-155
-78.14 To 9.176 %
Min Ratio
Max Ratio
Eu155-n.tendl Threshold 960.00 eV
Eu155.cendl3.1 Threshold 950.00 eV
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
34
63-Eu-155


MAT 6337
Dpa inelastic (mt51-91)
Cross Section
63-Eu-155
-50.41 To 9999. %
Min
Ratio
Eu155-n.tendl Threshold 79.150 keV
Eu155.cendl3.1 Threshold 79.112 keV
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
35
63-Eu-155


MAT 6337
Dpa disappearance (mt102 -120)
Cross Section
63-Eu-155
-53.89 To 9999. %
Min Ratio
Max Ratio
Eu155-n.tendl
Eu155.cendl3.1
Cross Section (barns)
Eu155.cendl3.1/Eu155-n.tendl
Ratio
Incident Energy (eV)
36
63-Eu-155