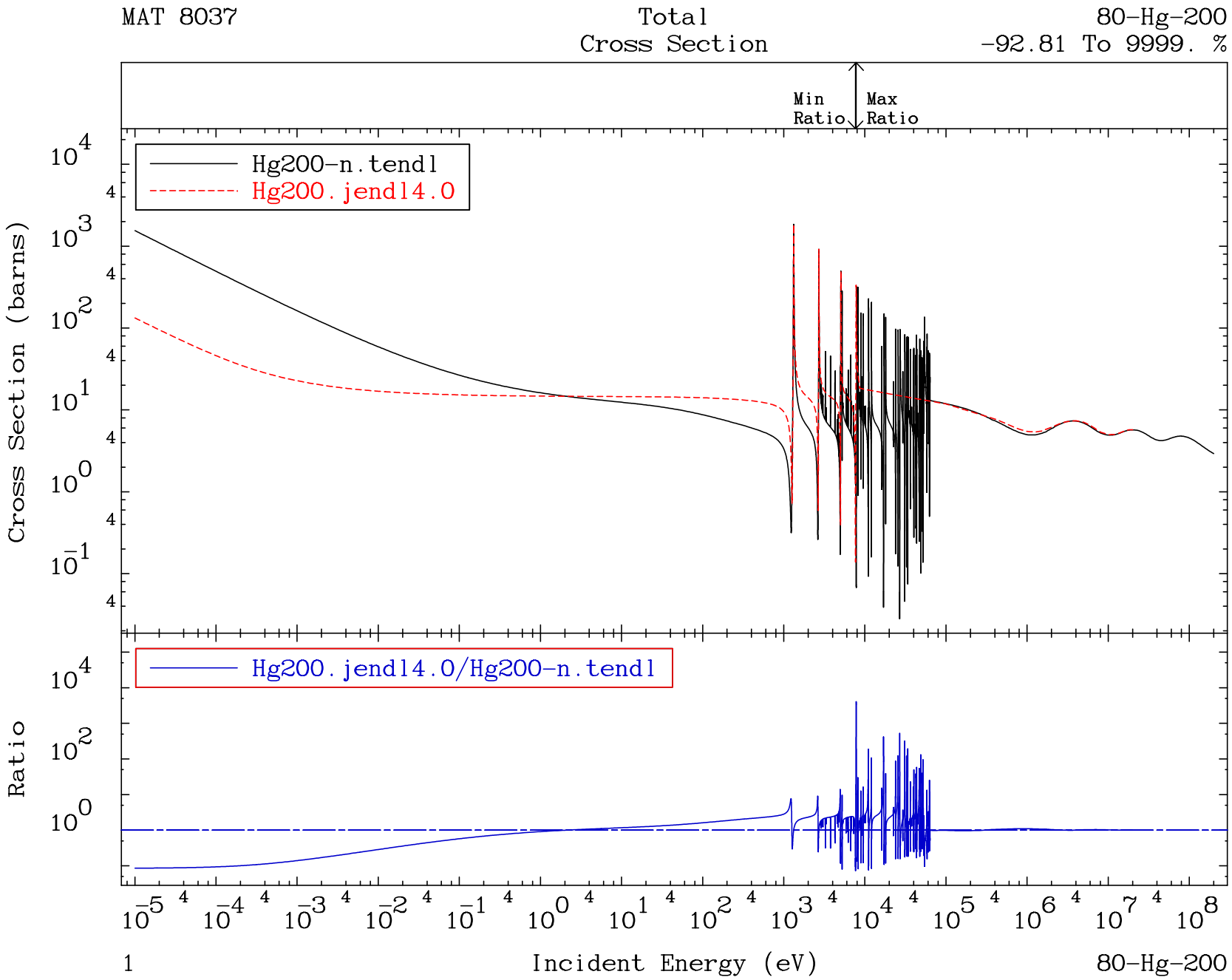
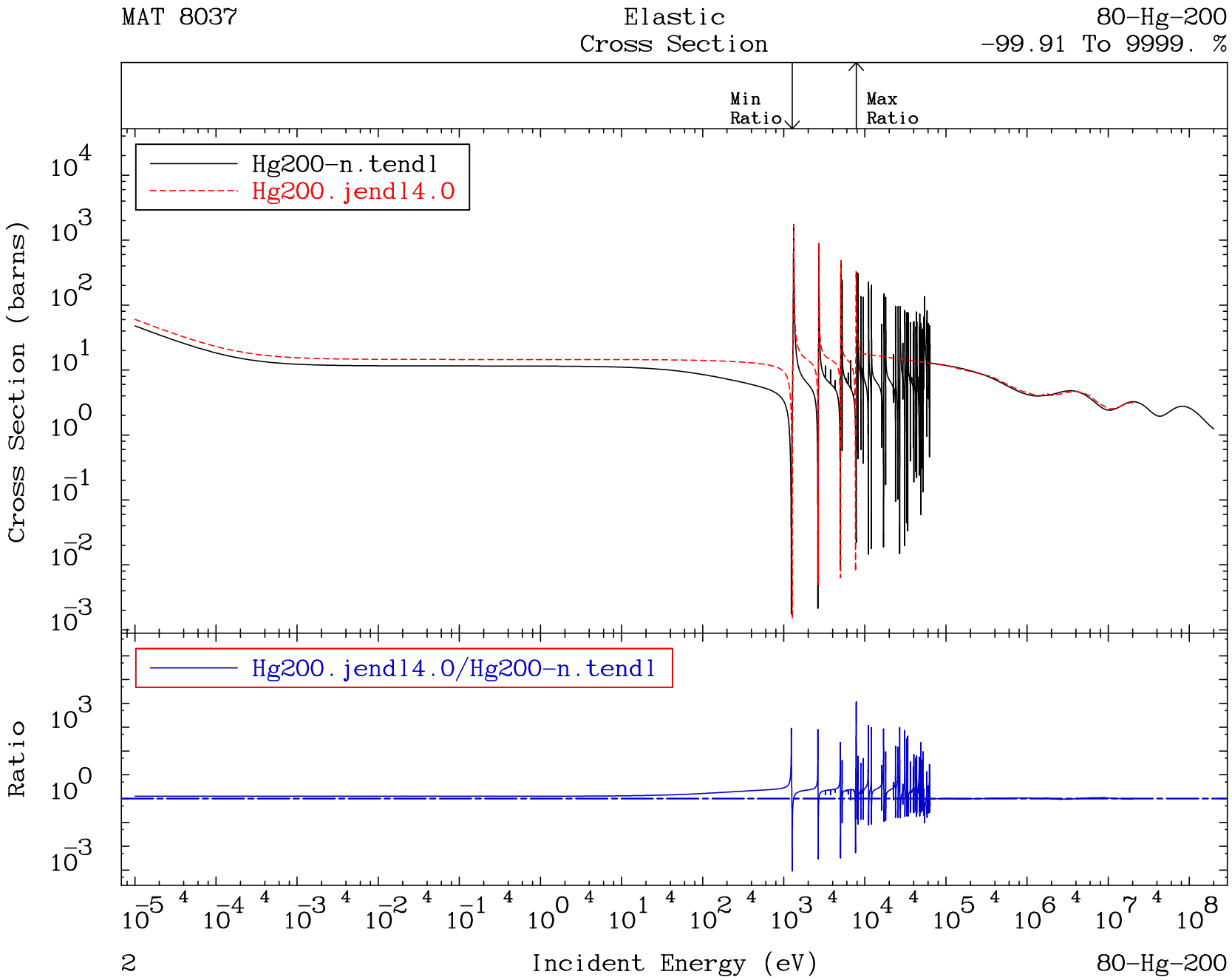
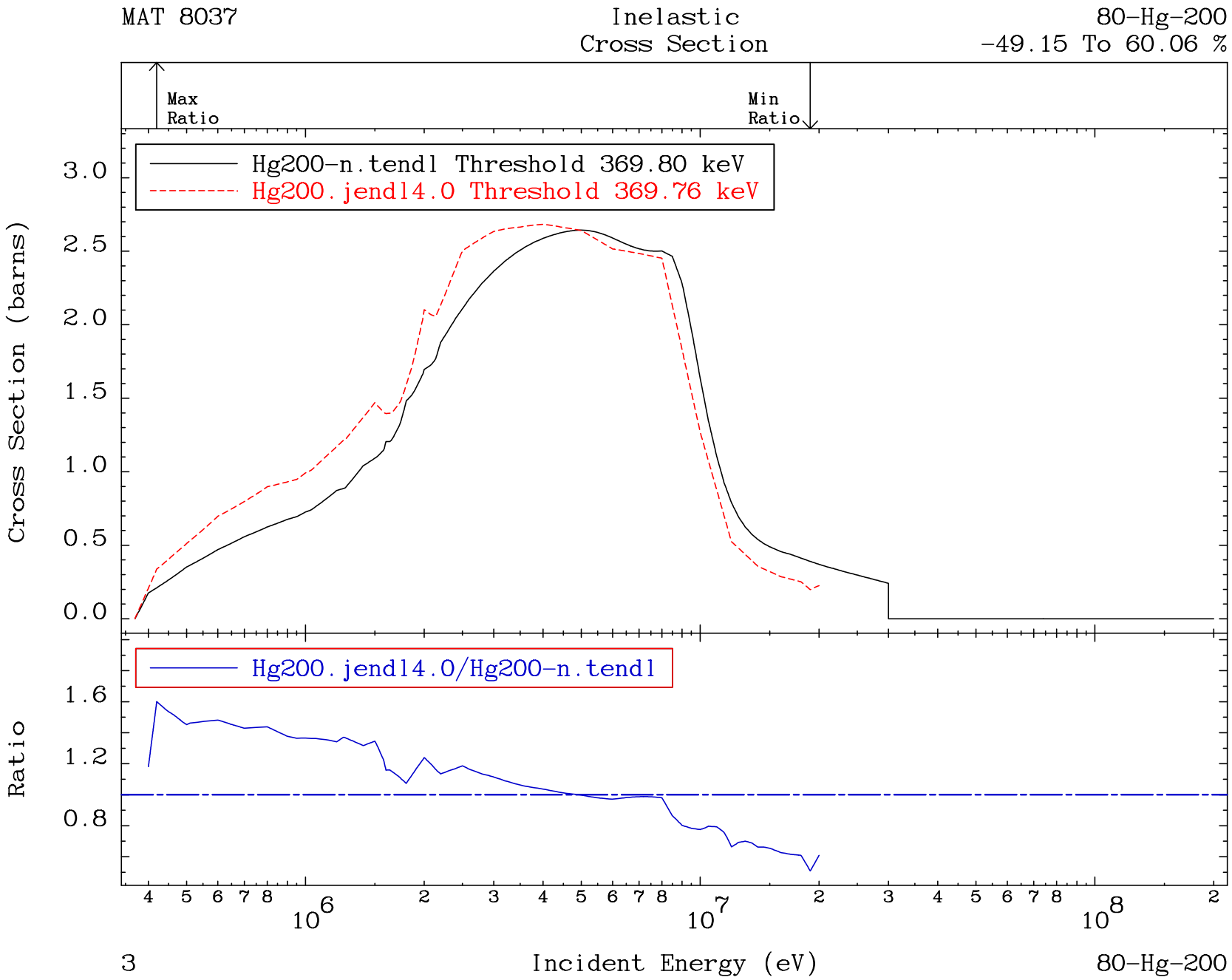
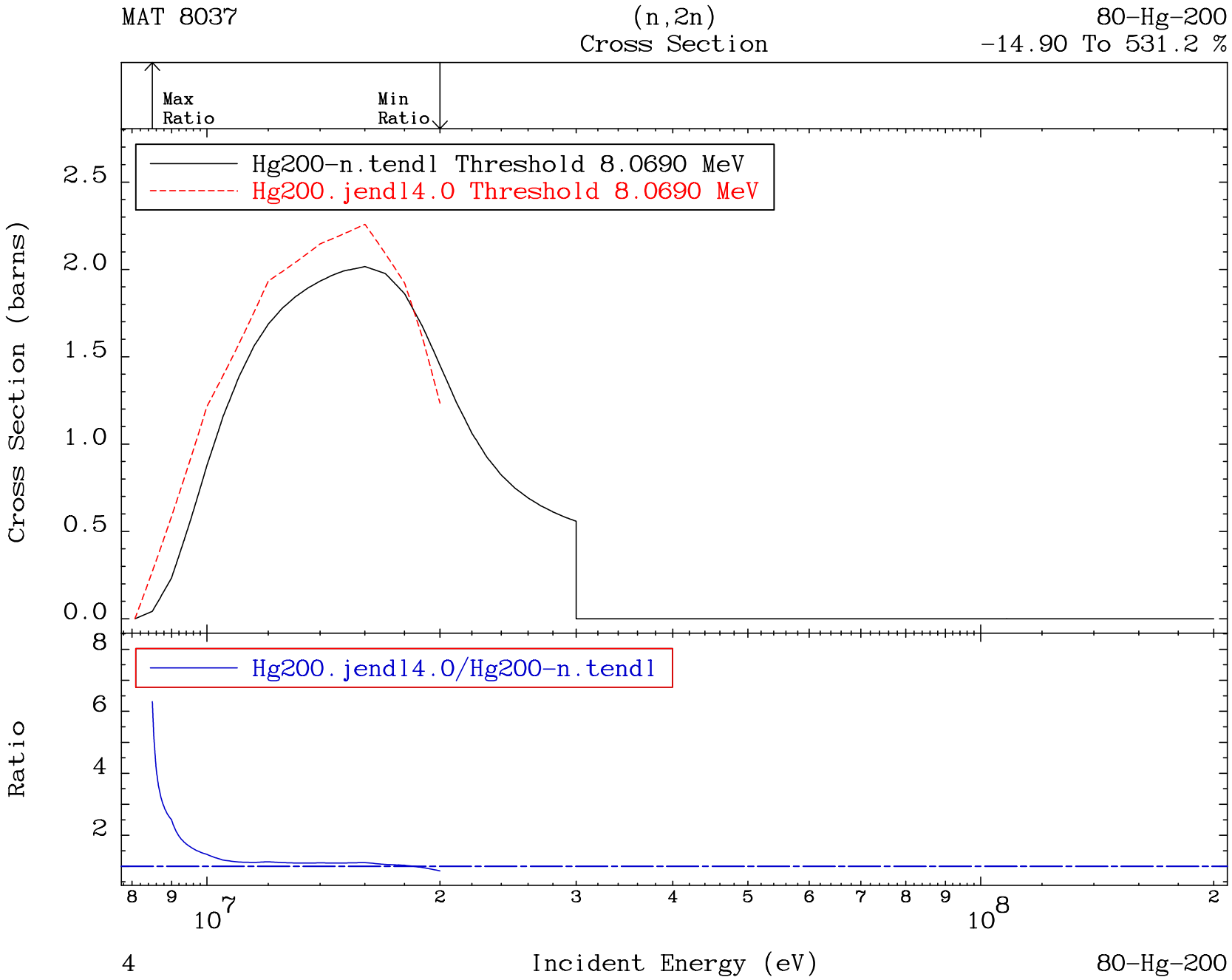
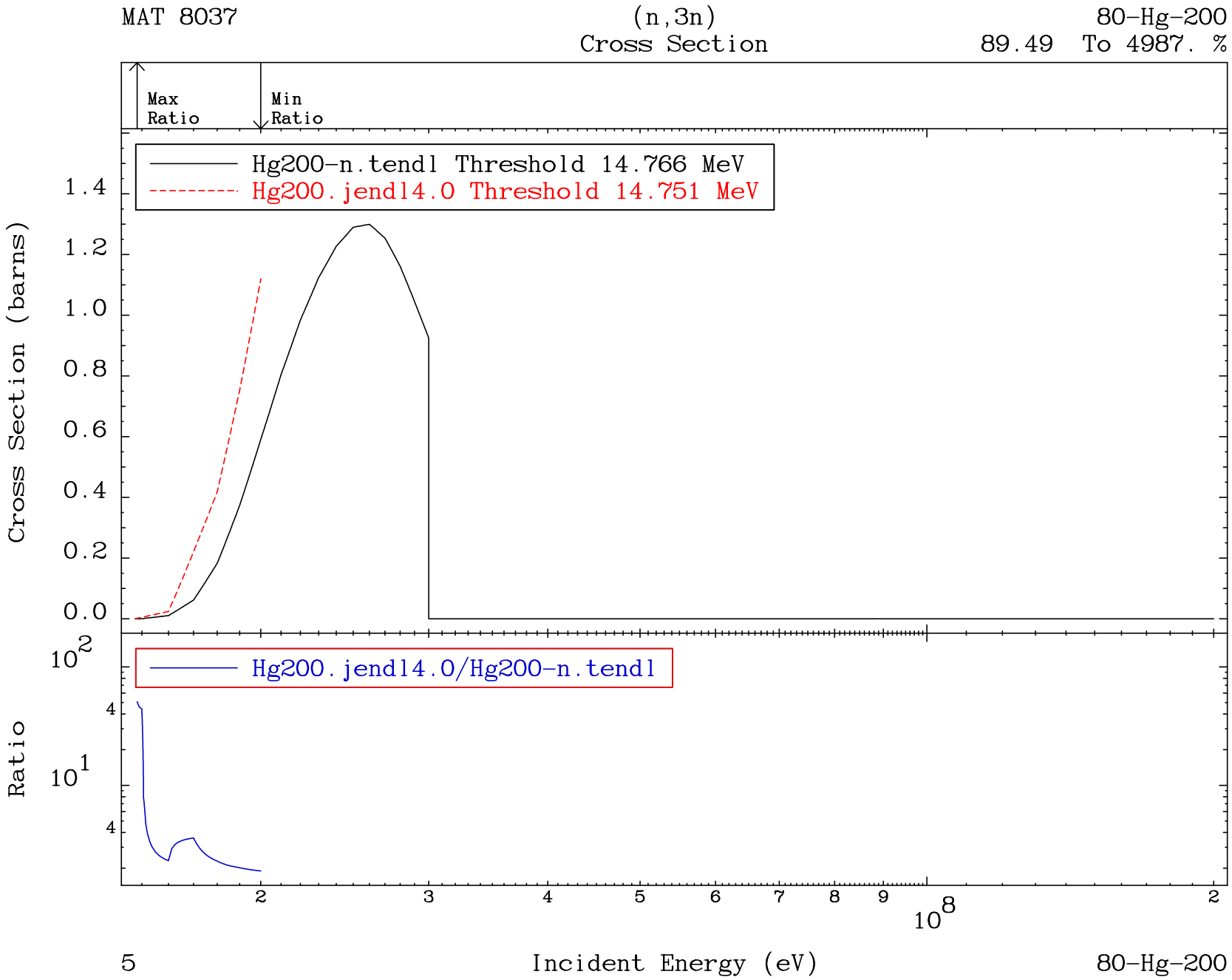
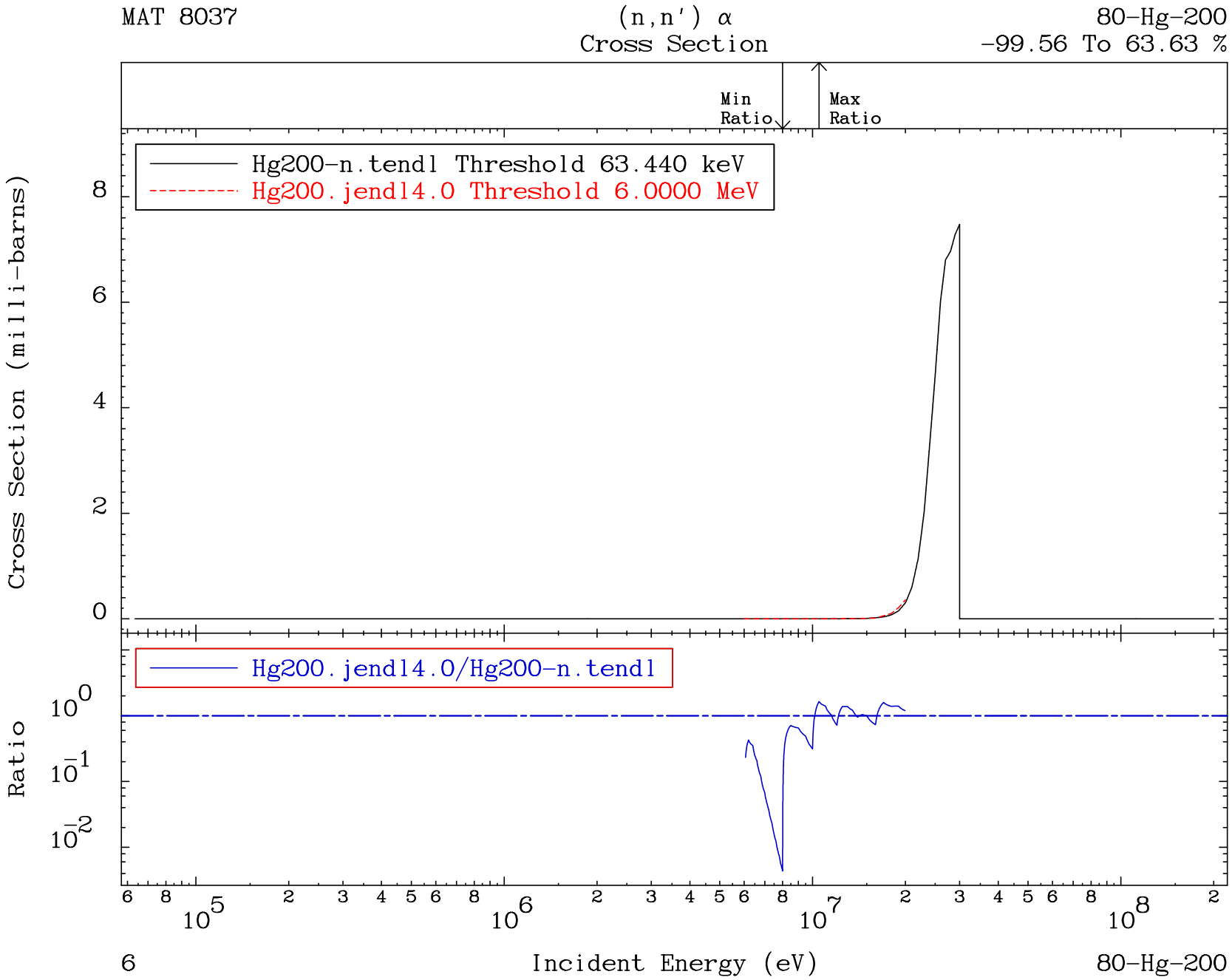

MAT 8037
Total
Cross Section
80-Hg-200
-92.81 To 9999. %
Min Ratio
Max Ratio
Hg200-n.tendl
Hg200.jendl4.0
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
1
80-Hg-200

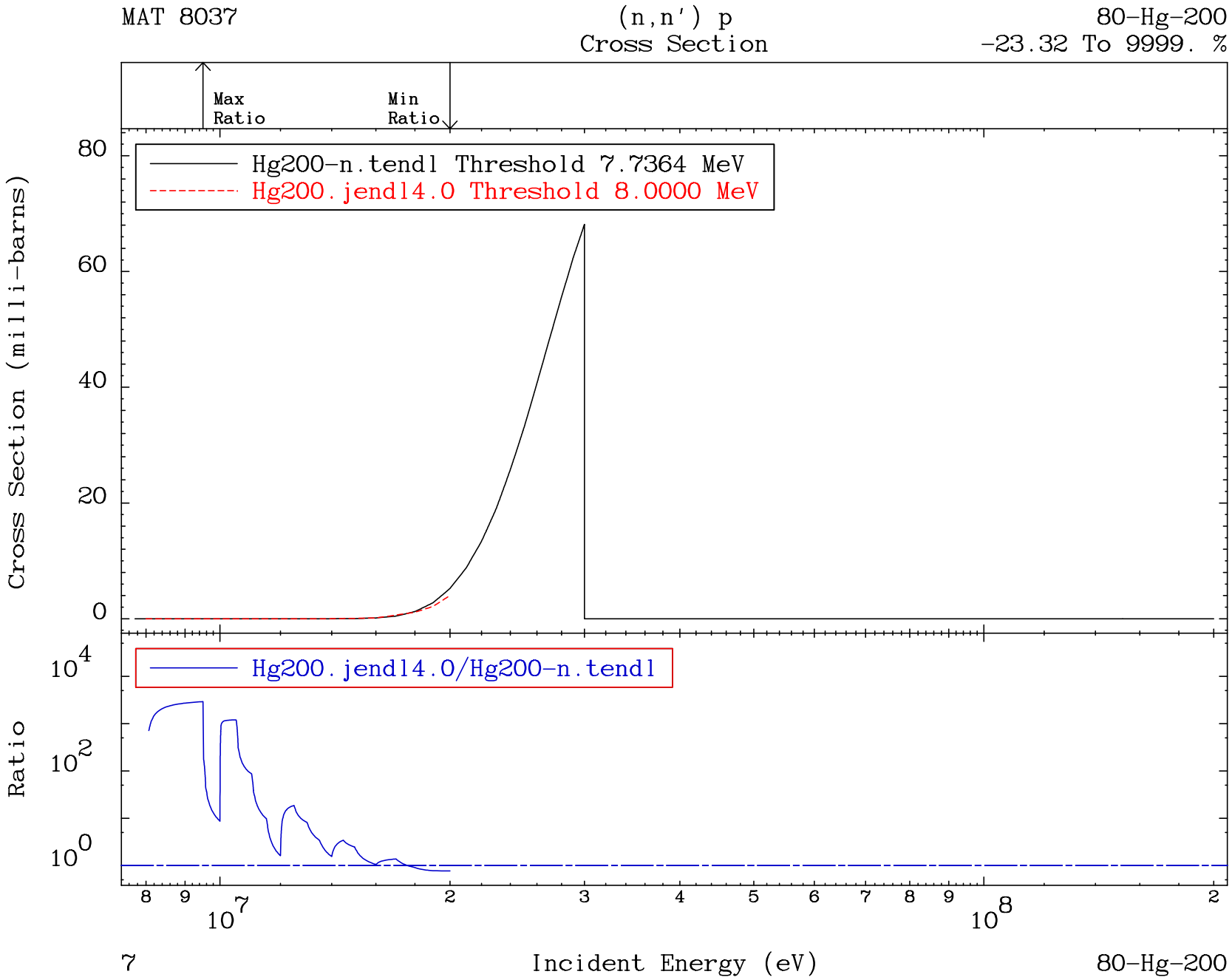

MAT 8037
Elastic
Cross Section
80-Hg-200
-99.91 To 9999. %
Min
Ratio
Max
Ratio
Hg200-n.tendl
Hg200.jendl4.0
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
2
80-Hg-200

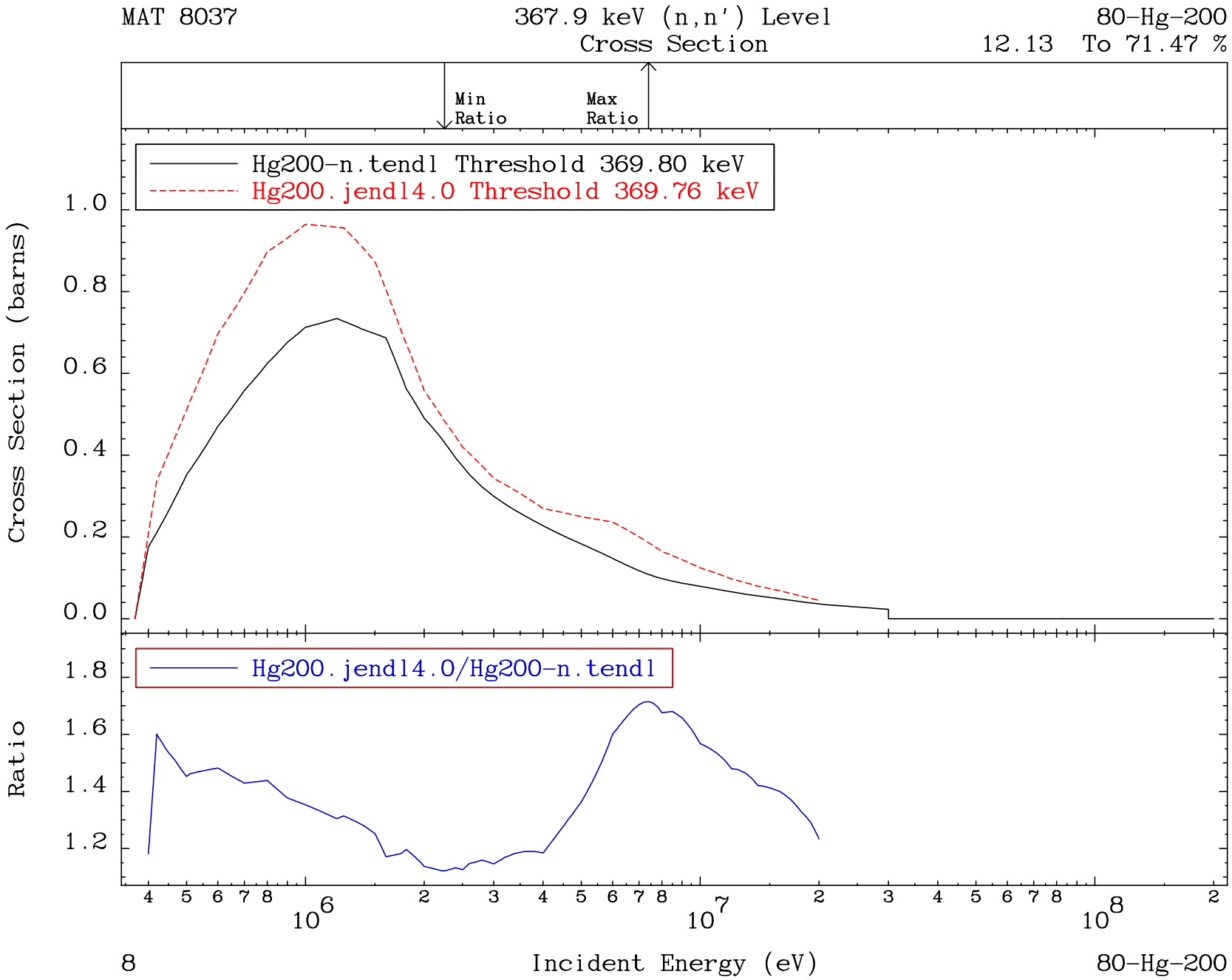

MAT 8037
Inelastic
Cross Section
80-Hg-200
-49.15 To 60.06 %
Max
Ratio
Min
Ratio
Hg200-n.tendl Threshold 369.80 keV
Hg200.jendl4.0 Threshold 369.76 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
1.6
1.2
0.8
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
80-Hg-200

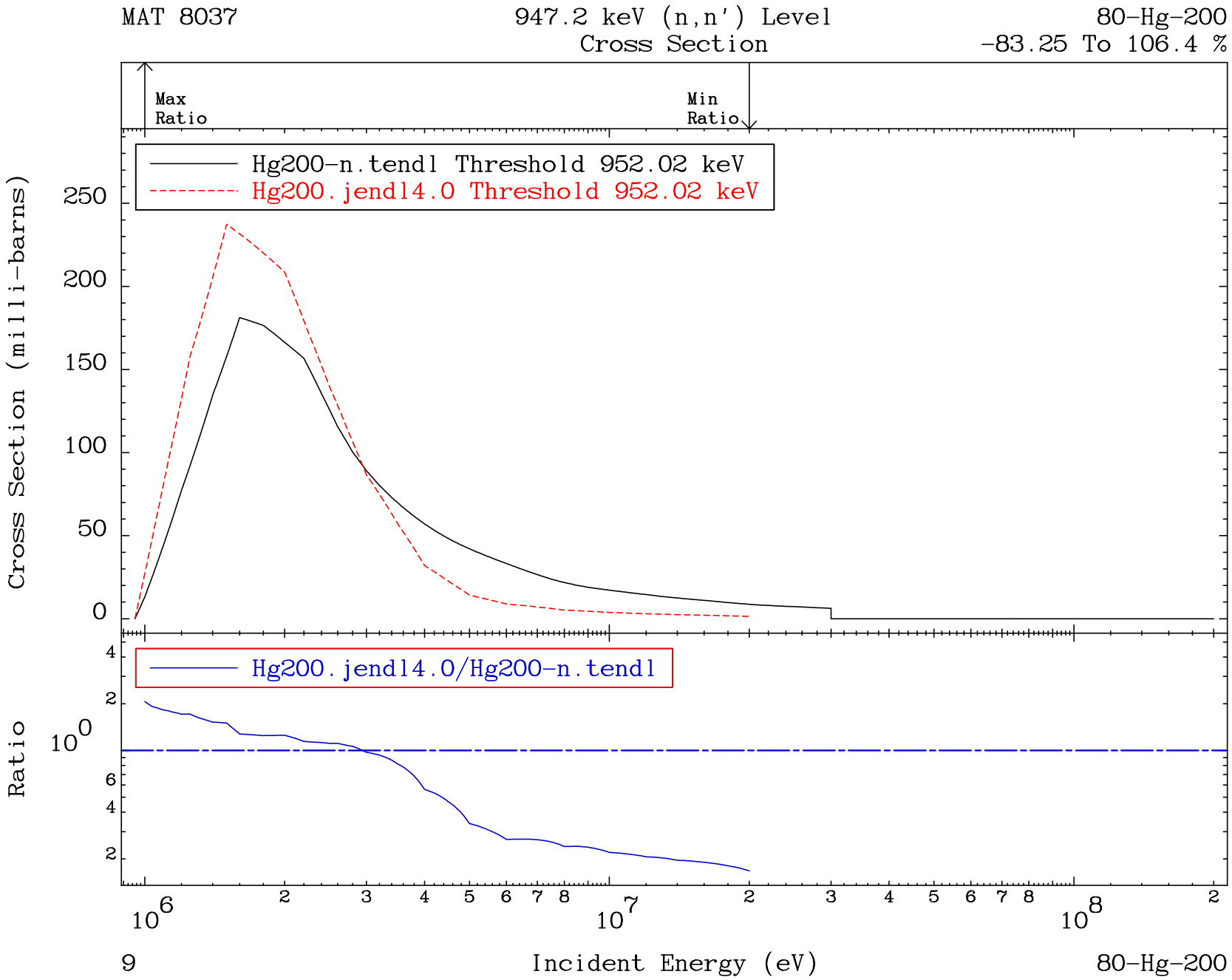

MAT 8037
(n,2n)
Cross Section
80-Hg-200
-14.90 To 531.2 %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 8.0690 MeV
Hg200.jendl4.0 Threshold 8.0690 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
8
6
4
2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
80-Hg-200

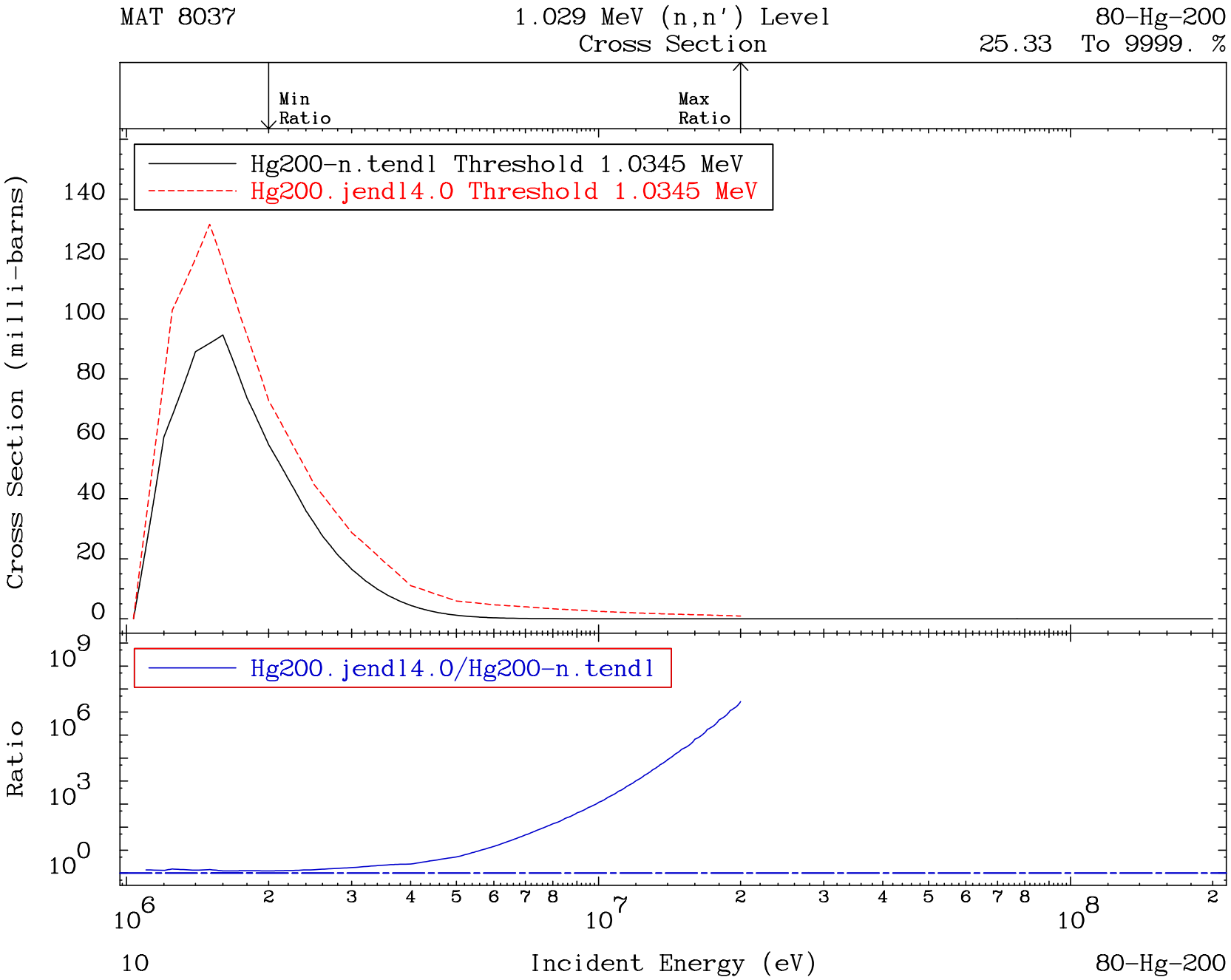

MAT 8037
(n,3n)
Cross Section
80-Hg-200
89.49 To 4987. %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 14.766 MeV
Hg200.jendl4.0 Threshold 14.751 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^2
4
10^1
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
80-Hg-200

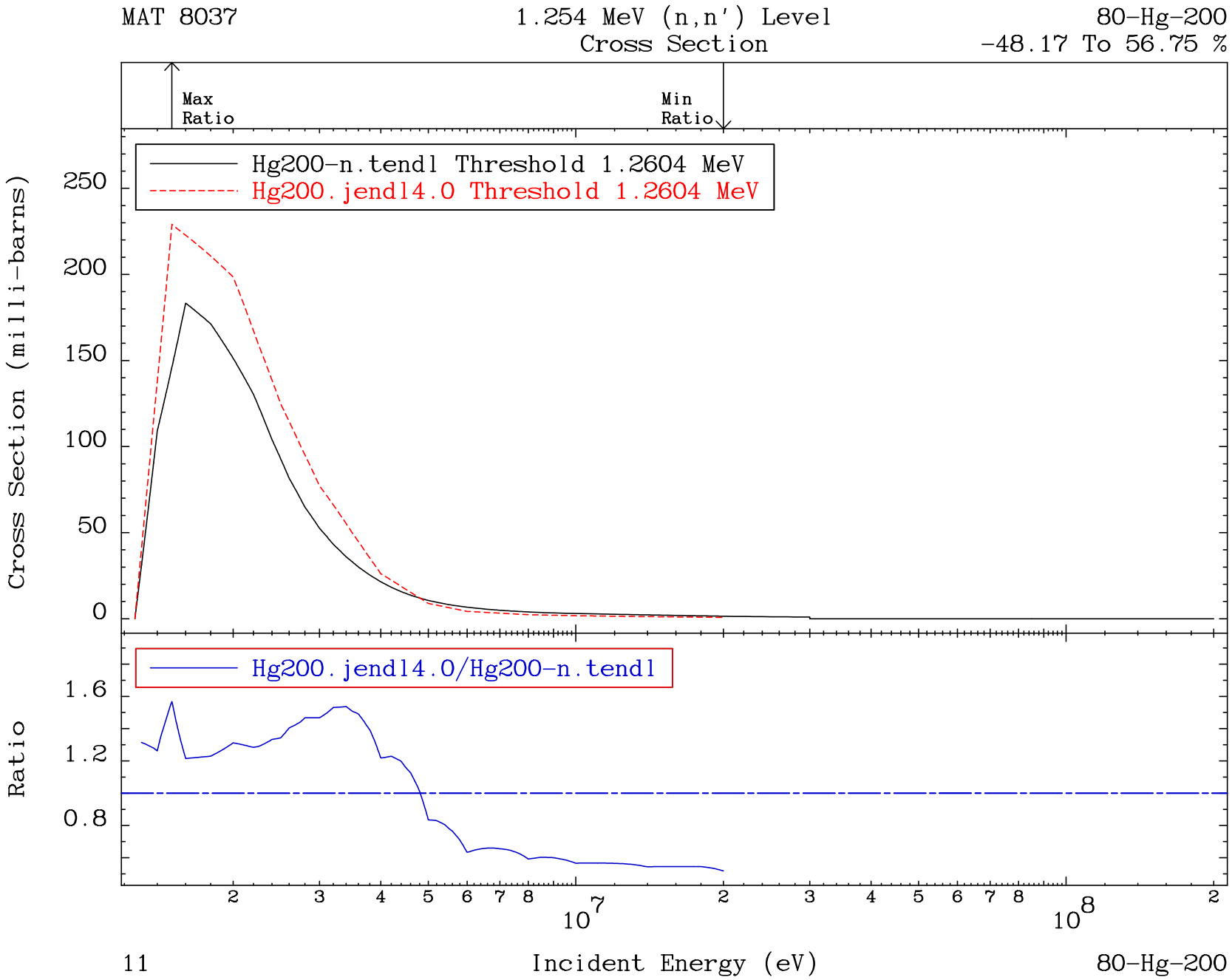

MAT 8037
(n,n') α
Cross Section
80-Hg-200
-99.56 To 63.63 %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 63.440 keV
Hg200.jendl4.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
6
80-Hg-200

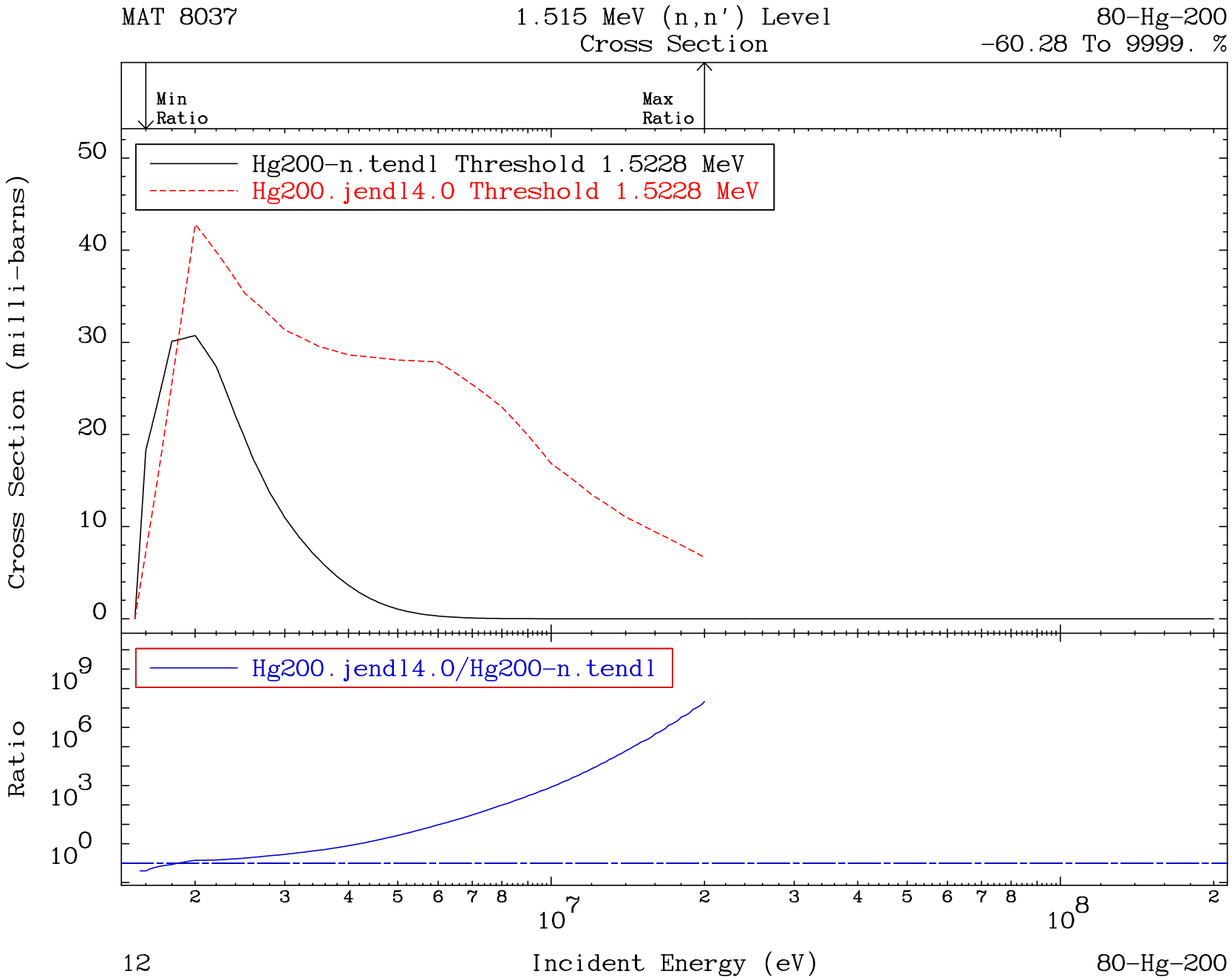

MAT 8037
(n,n') p
Cross Section
80-Hg-200
-23.32 To 9999. %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 7.7364 MeV
Hg200.jendl4.0 Threshold 8.0000 MeV
Cross Section (milli-barns)
80
60
40
20
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
80-Hg-200

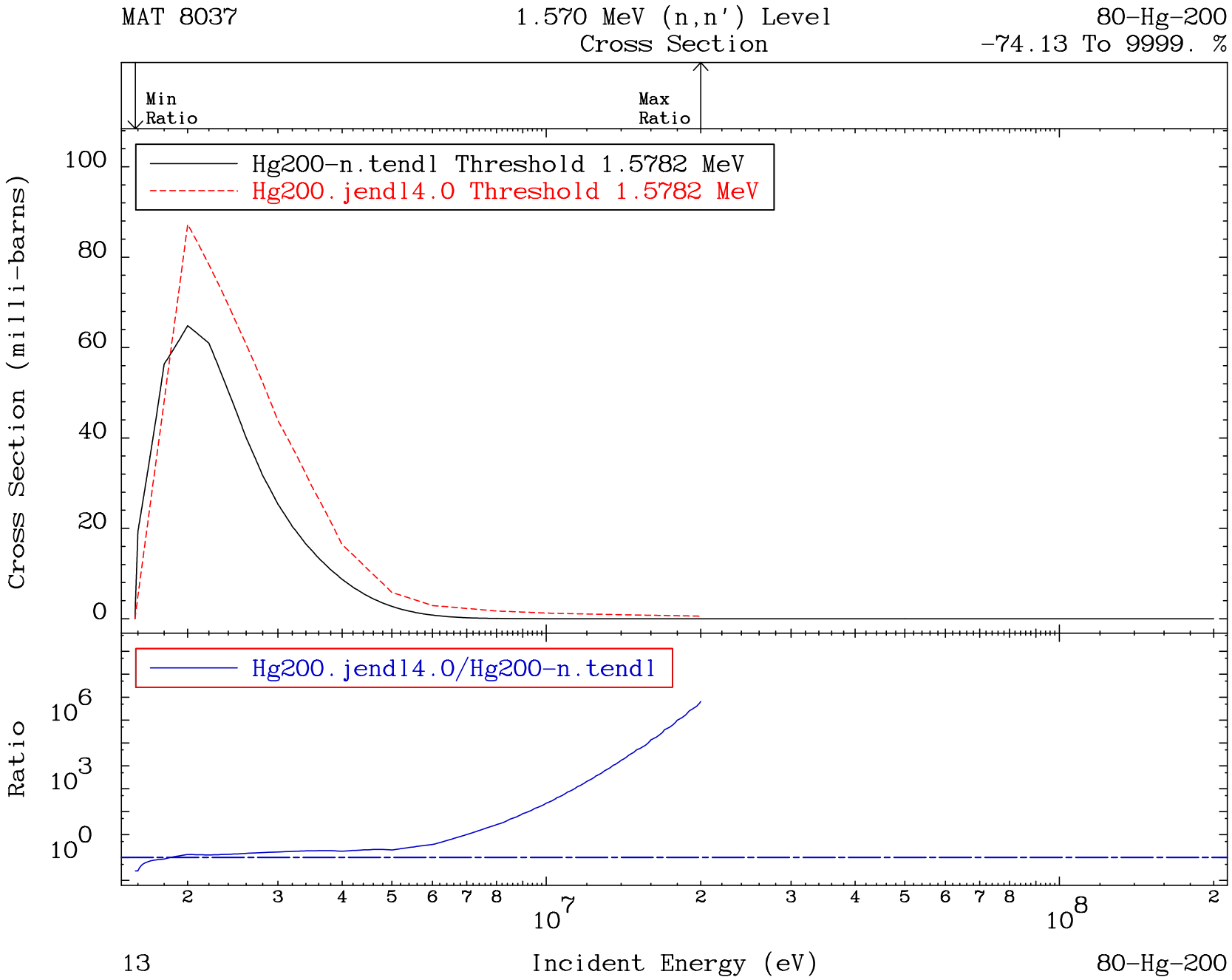

MAT 8037
367.9 keV (n,n') Level
Cross Section
80-Hg-200
12.13 To 71.47 %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 369.80 keV
Hg200.jendl4.0 Threshold 369.76 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
1.8
1.6
1.4
1.2
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
8
Incident Energy (eV)
80-Hg-200

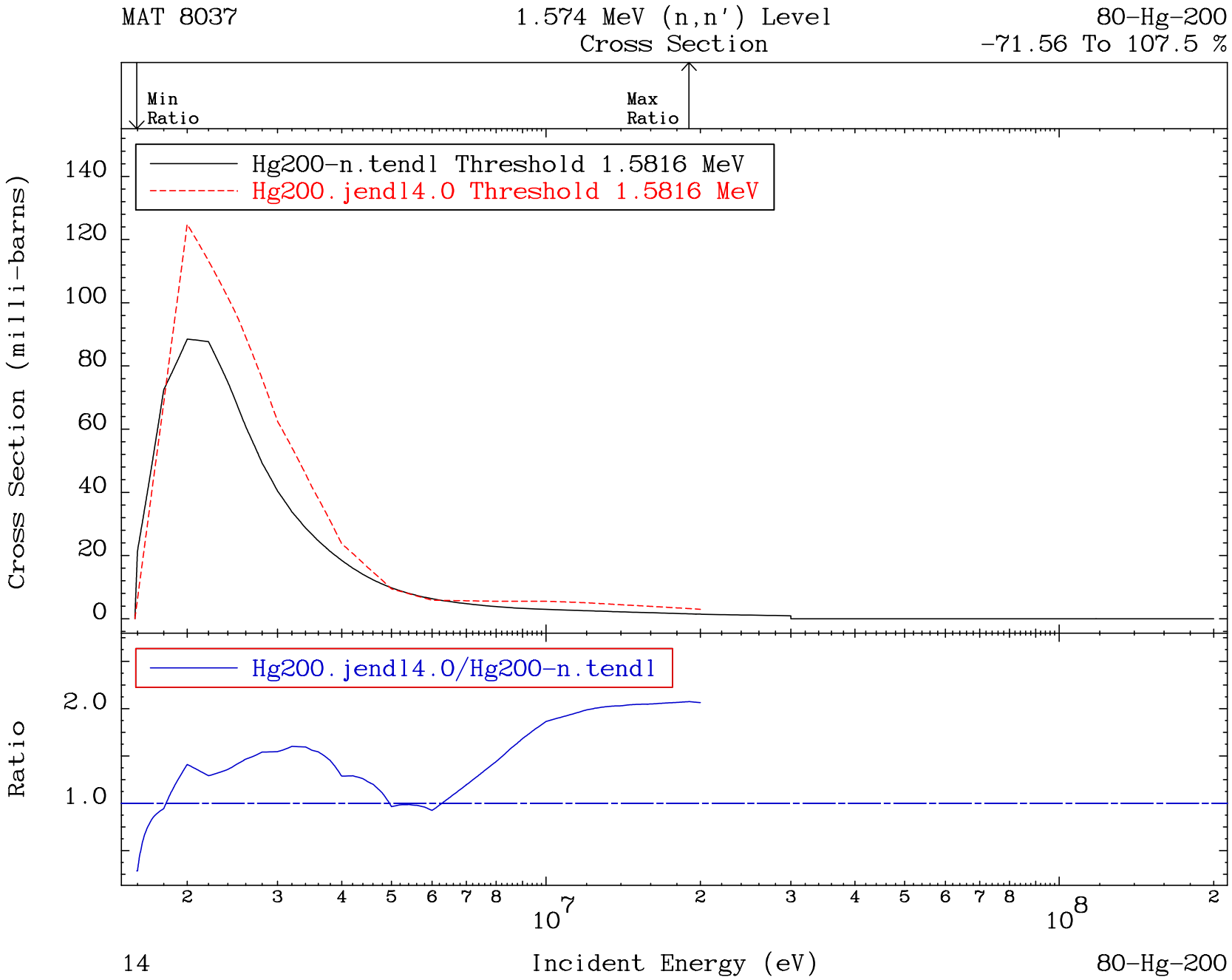

MAT 8037
947.2 keV (n,n') Level
Cross Section
80-Hg-200
-83.25 To 106.4 %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 952.02 keV
Hg200.jendl4.0 Threshold 952.02 keV
Cross Section (milli-barns)
250
200
150
100
50
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
4
2
10^0
6
4
2
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
9
Incident Energy (eV)
80-Hg-200

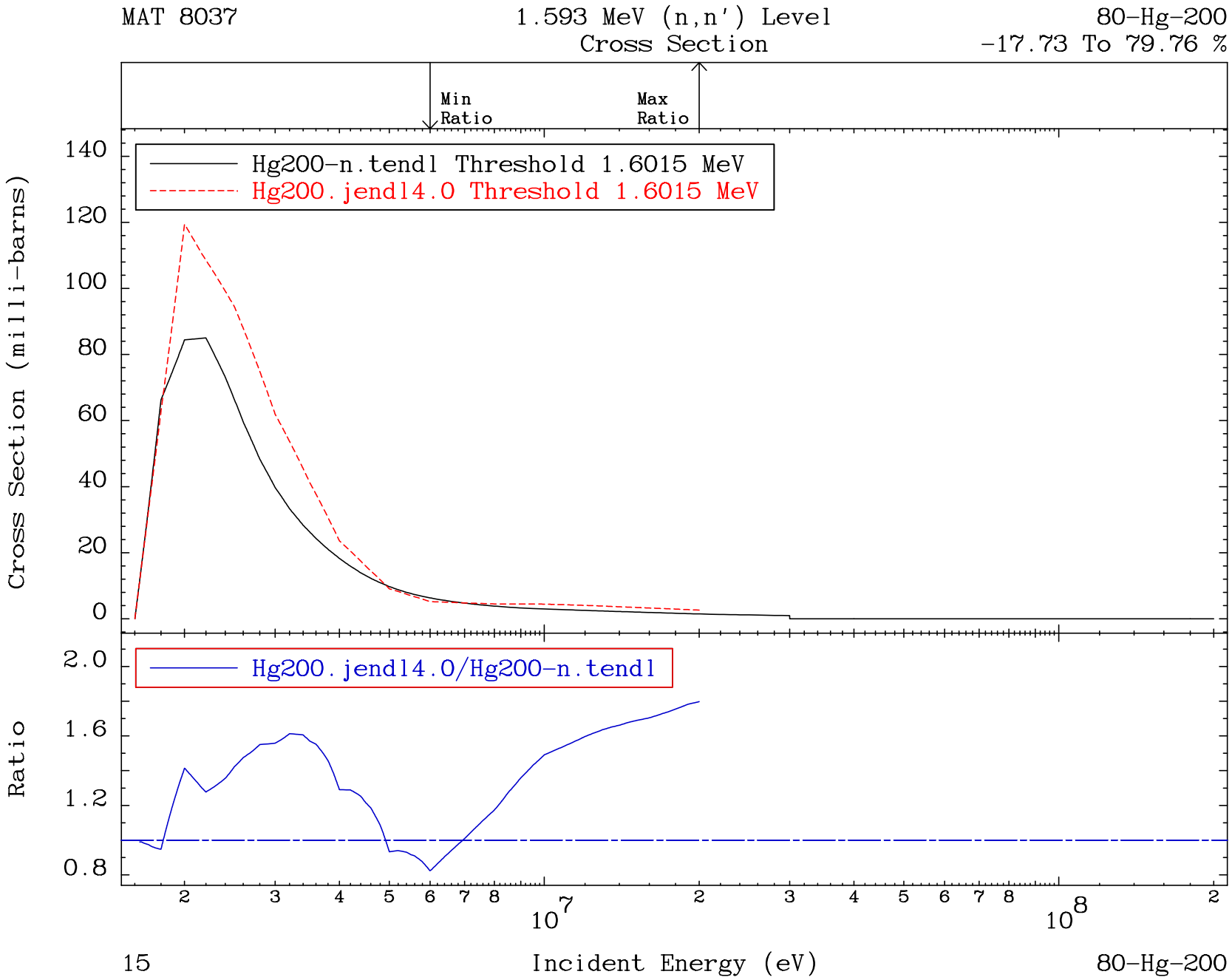

MAT 8037
1.029 MeV (n,n') Level
Cross Section
80-Hg-200
25.33 To 9999. %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 1.0345 MeV
Hg200.jendl4.0 Threshold 1.0345 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^9
10^6
10^3
10^0
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
80-Hg-200

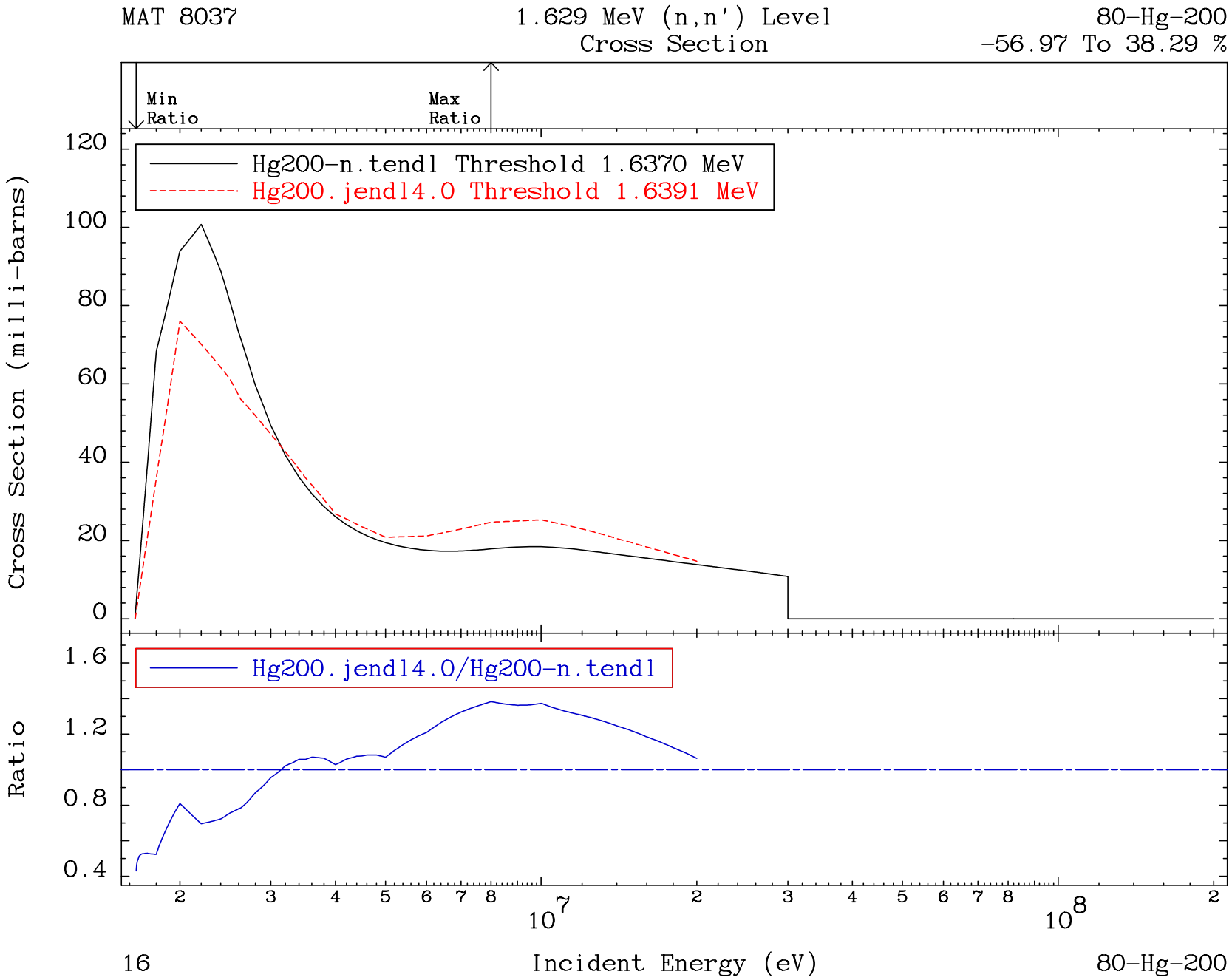

MAT 8037
1.254 MeV (n,n') Level
Cross Section
80-Hg-200
-48.17 To 56.75 %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 1.2604 MeV
Hg200.jendl4.0 Threshold 1.2604 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
1.6
1.2
0.8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
80-Hg-200

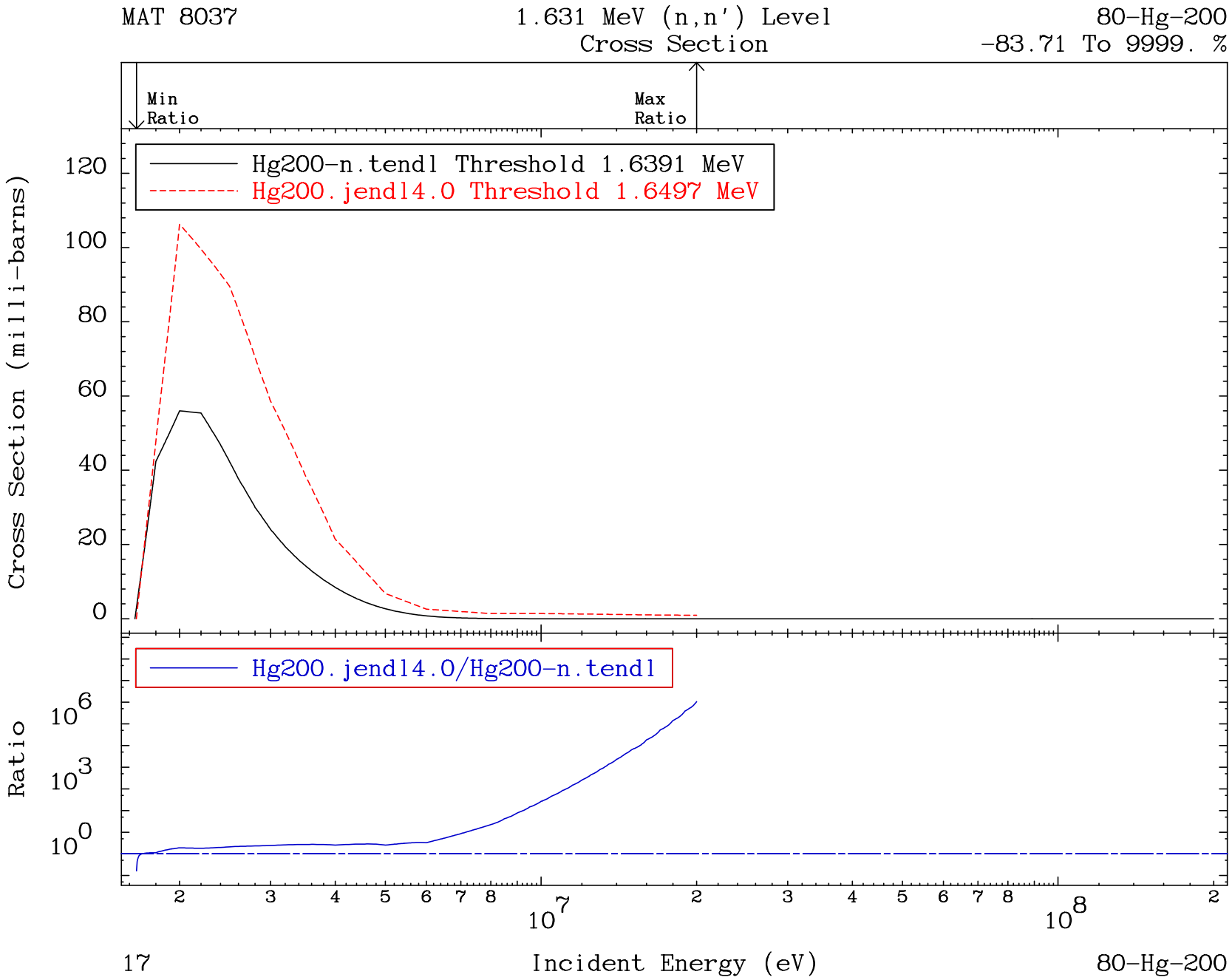

MAT 8037
1.515 MeV (n,n') Level
Cross Section
80-Hg-200
-60.28 To 9999. %
Min
Ratio
Max
Ratio
Hg200-n.tendl Threshold 1.5228 MeV
Hg200.jendl4.0 Threshold 1.5228 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
80-Hg-200

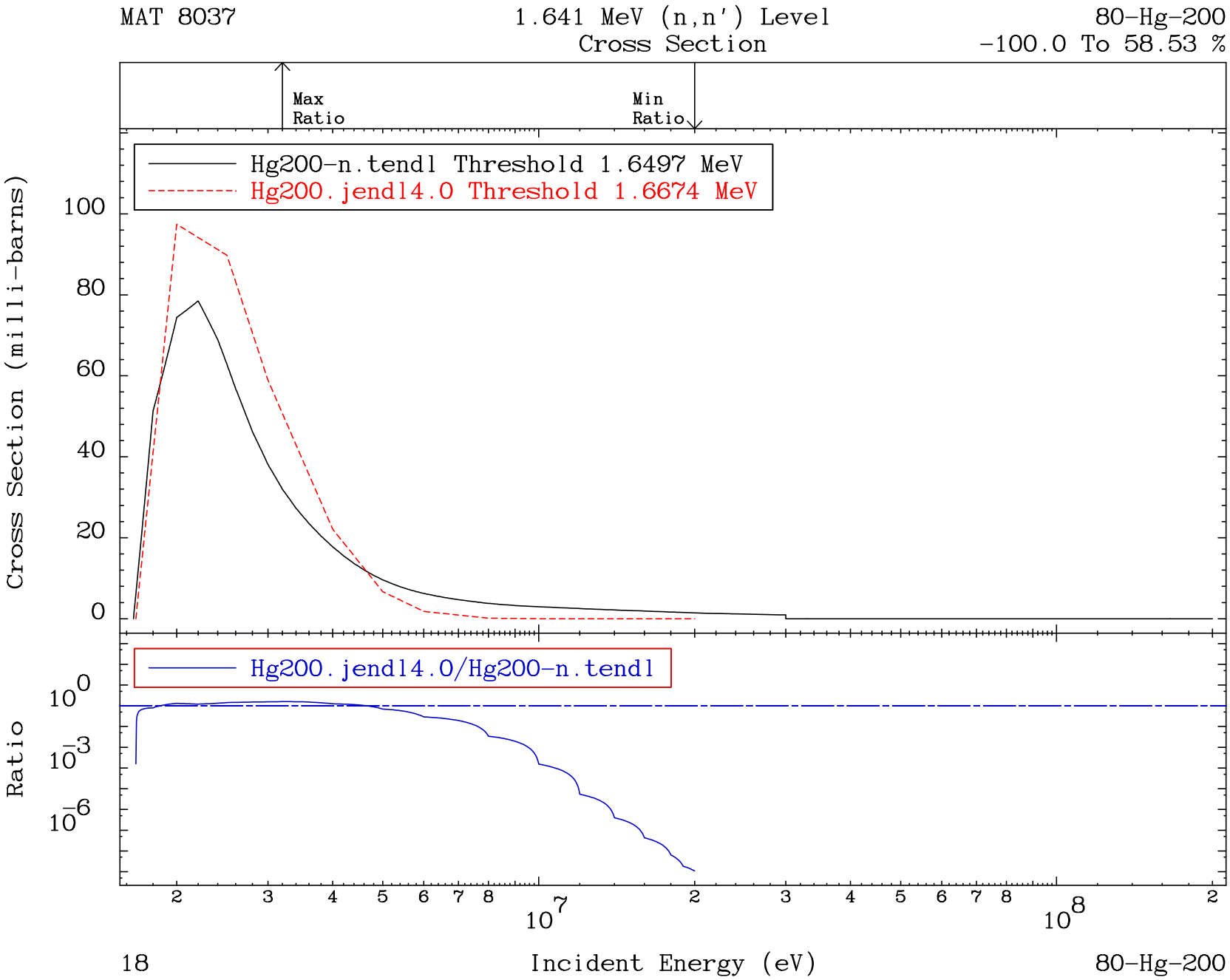

MAT 8037
1.570 MeV (n,n') Level
Cross Section
80-Hg-200
-74.13 To 9999. %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 1.5782 MeV
Hg200.jendl4.0 Threshold 1.5782 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
80-Hg-200

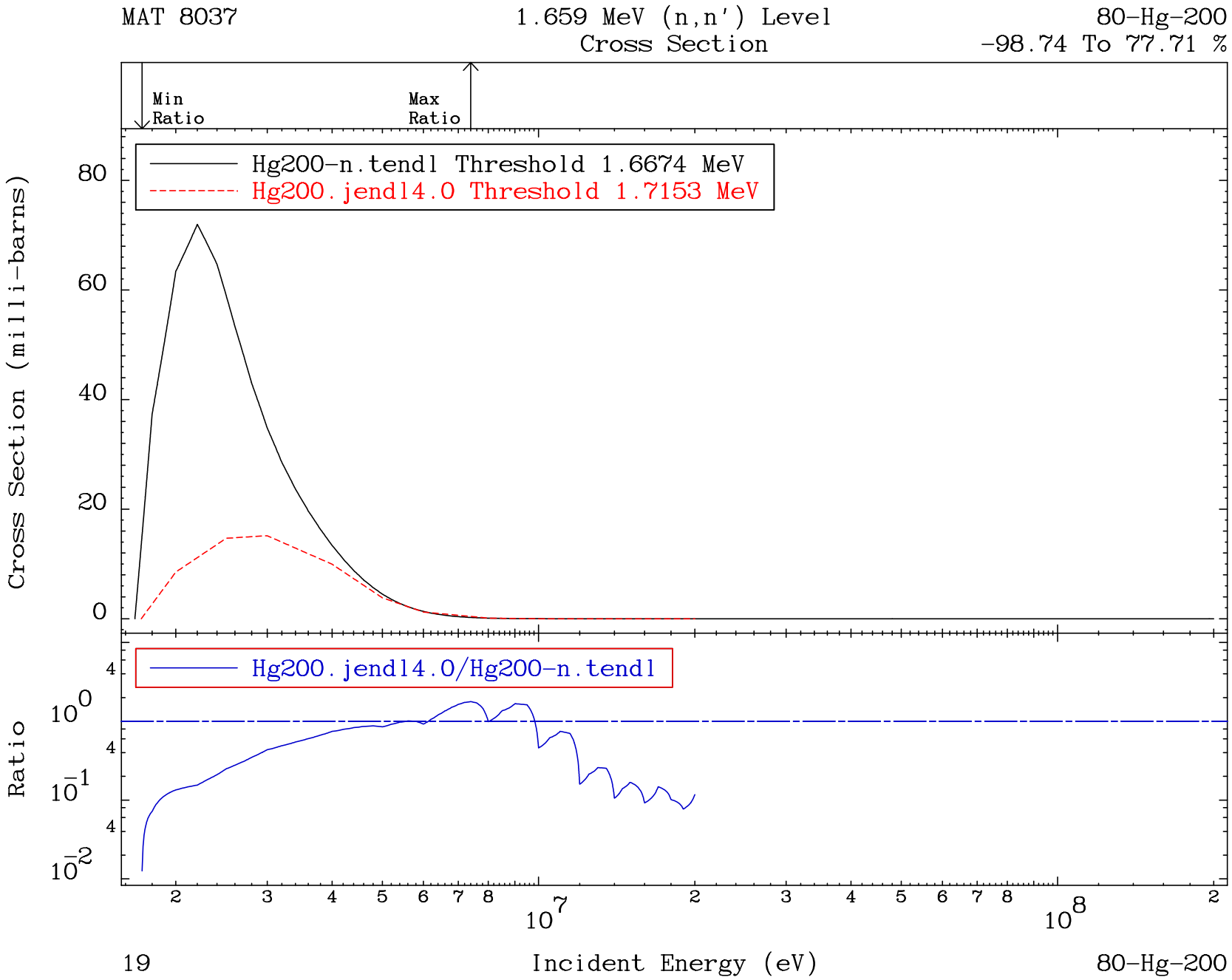

MAT 8037
1.574 MeV (n,n') Level
Cross Section
80-Hg-200
-71.56 To 107.5 %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 1.5816 MeV
Hg200.jendl4.0 Threshold 1.5816 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
2.0
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
80-Hg-200

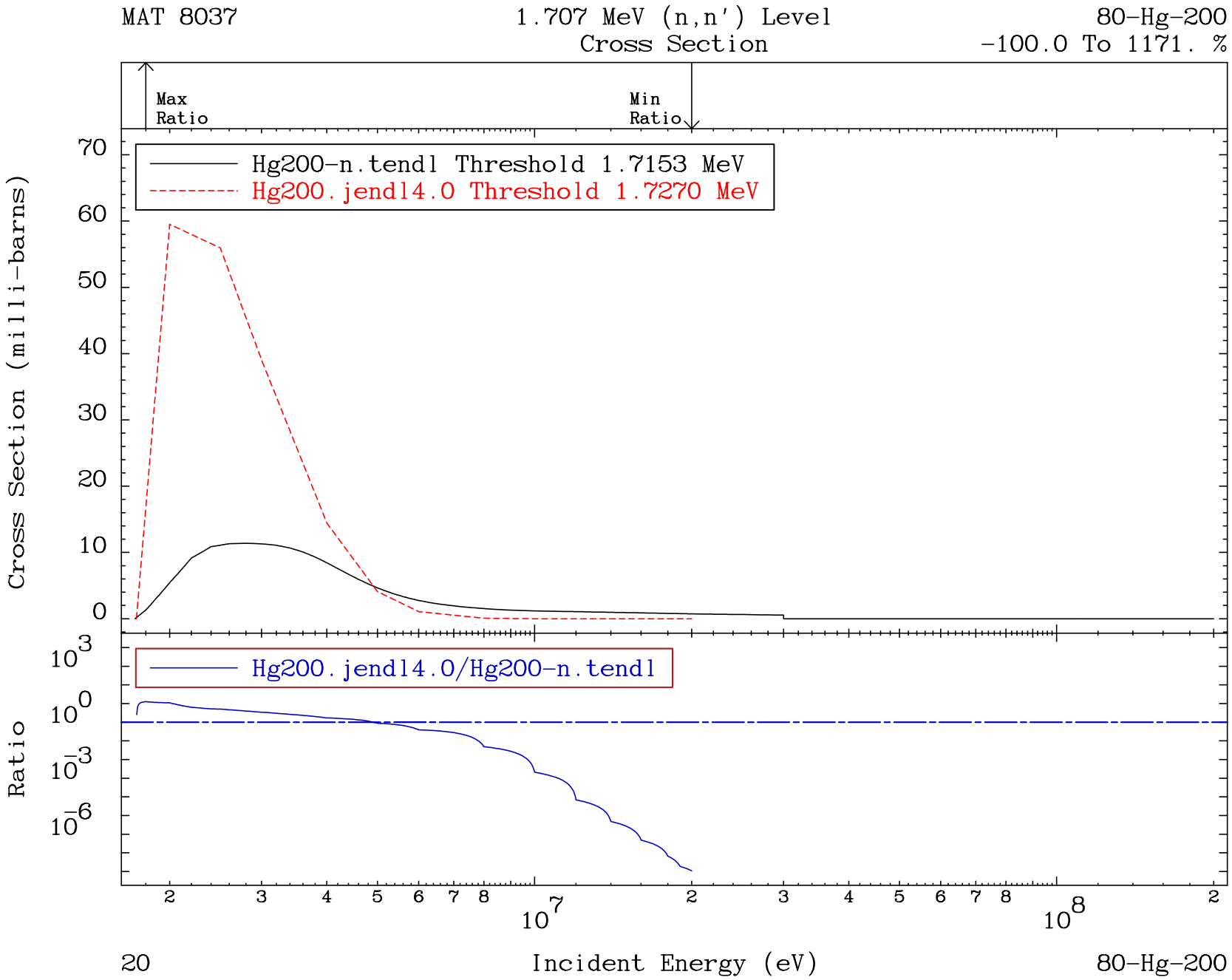

MAT 8037
1.593 MeV (n,n') Level
Cross Section
80-Hg-200
-17.73 To 79.76 %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 1.6015 MeV
Hg200.jendl4.0 Threshold 1.6015 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
2.0
1.6
1.2
0.8
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
80-Hg-200

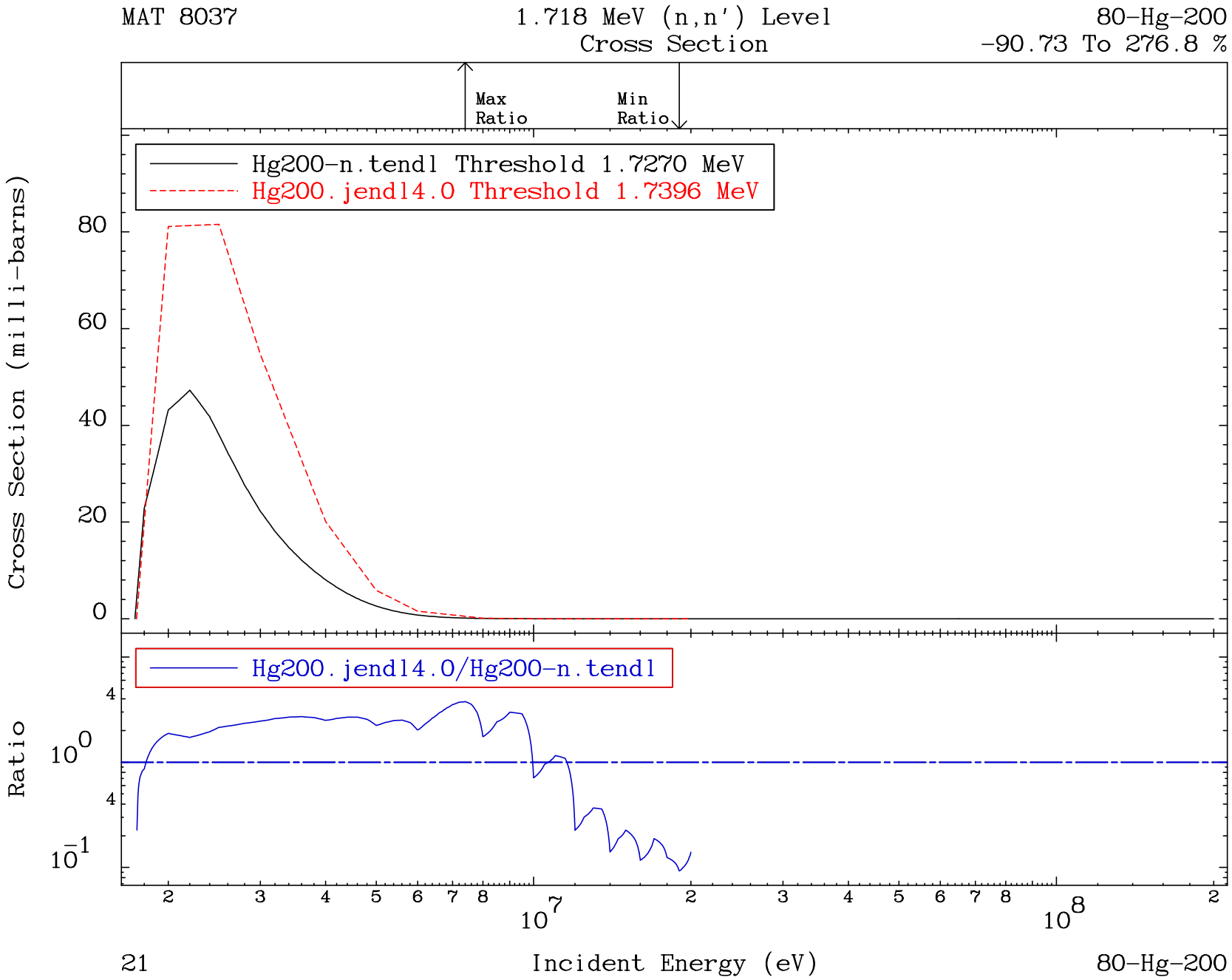

MAT 8037
1.629 MeV (n,n') Level
Cross Section
80-Hg-200
-56.97 To 38.29 %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 1.6370 MeV
Hg200.jendl4.0 Threshold 1.6391 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
1.6
1.2
0.8
0.4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
80-Hg-200

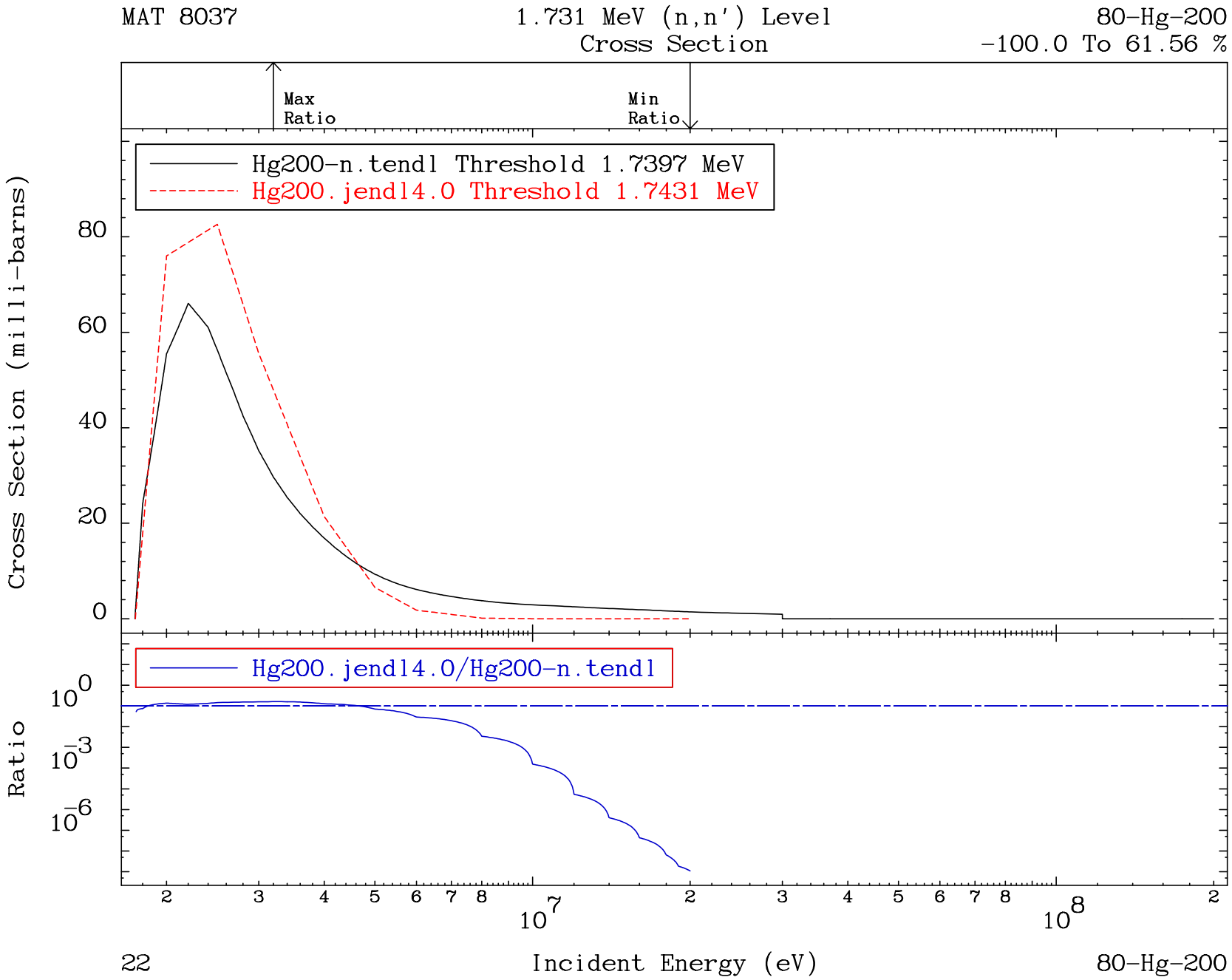

MAT 8037
1.631 MeV (n,n') Level
Cross Section
80-Hg-200
-83.71 To 9999. %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 1.6391 MeV
Hg200.jendl4.0 Threshold 1.6497 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
80-Hg-200

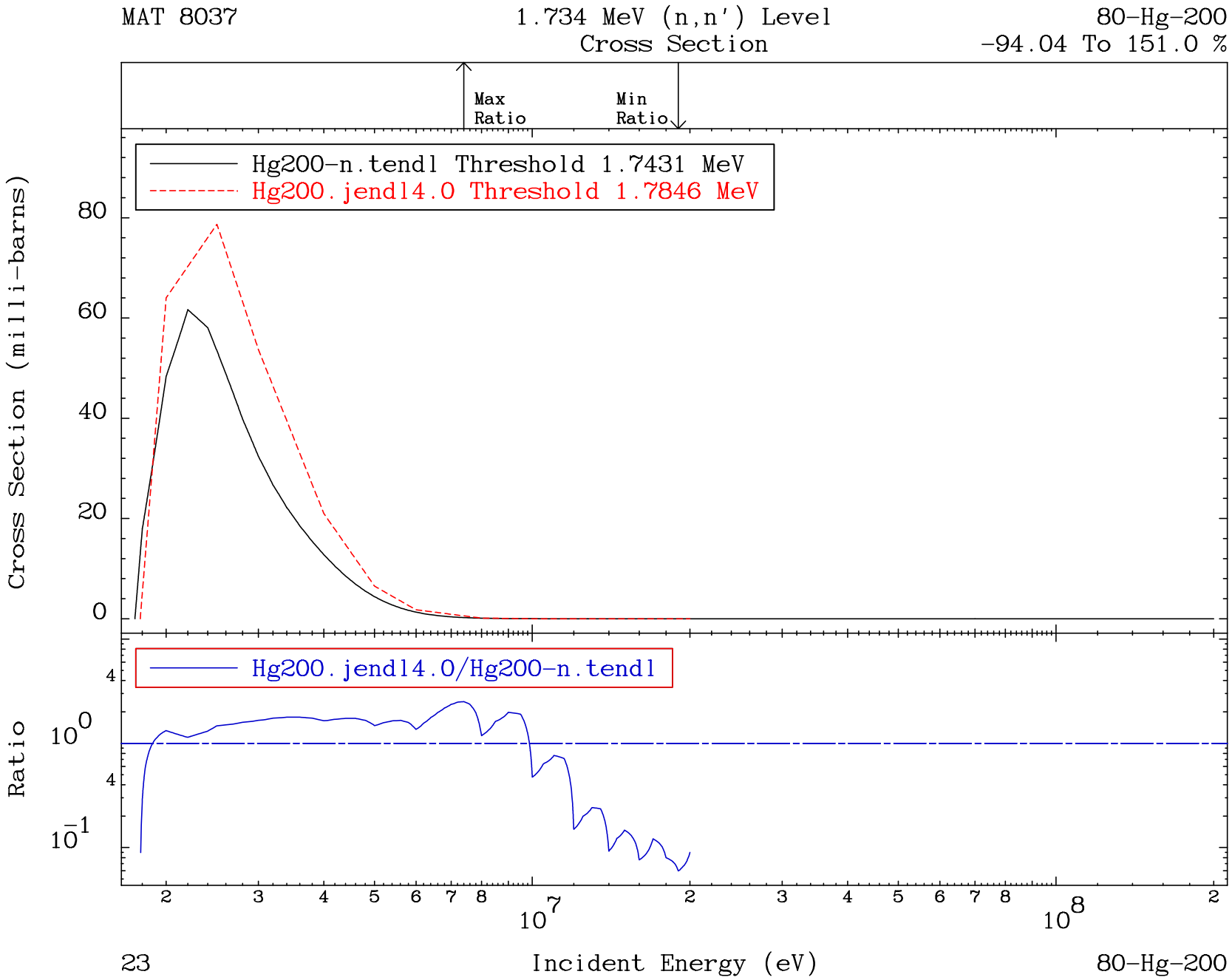

MAT 8037
1.641 MeV (n,n') Level
Cross Section
80-Hg-200
-100.0 To 58.53 %
Max
Ratio
Min
Ratio
Hg200-n.tendl Threshold 1.6497 MeV
Hg200.jendl4.0 Threshold 1.6674 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
80-Hg-200

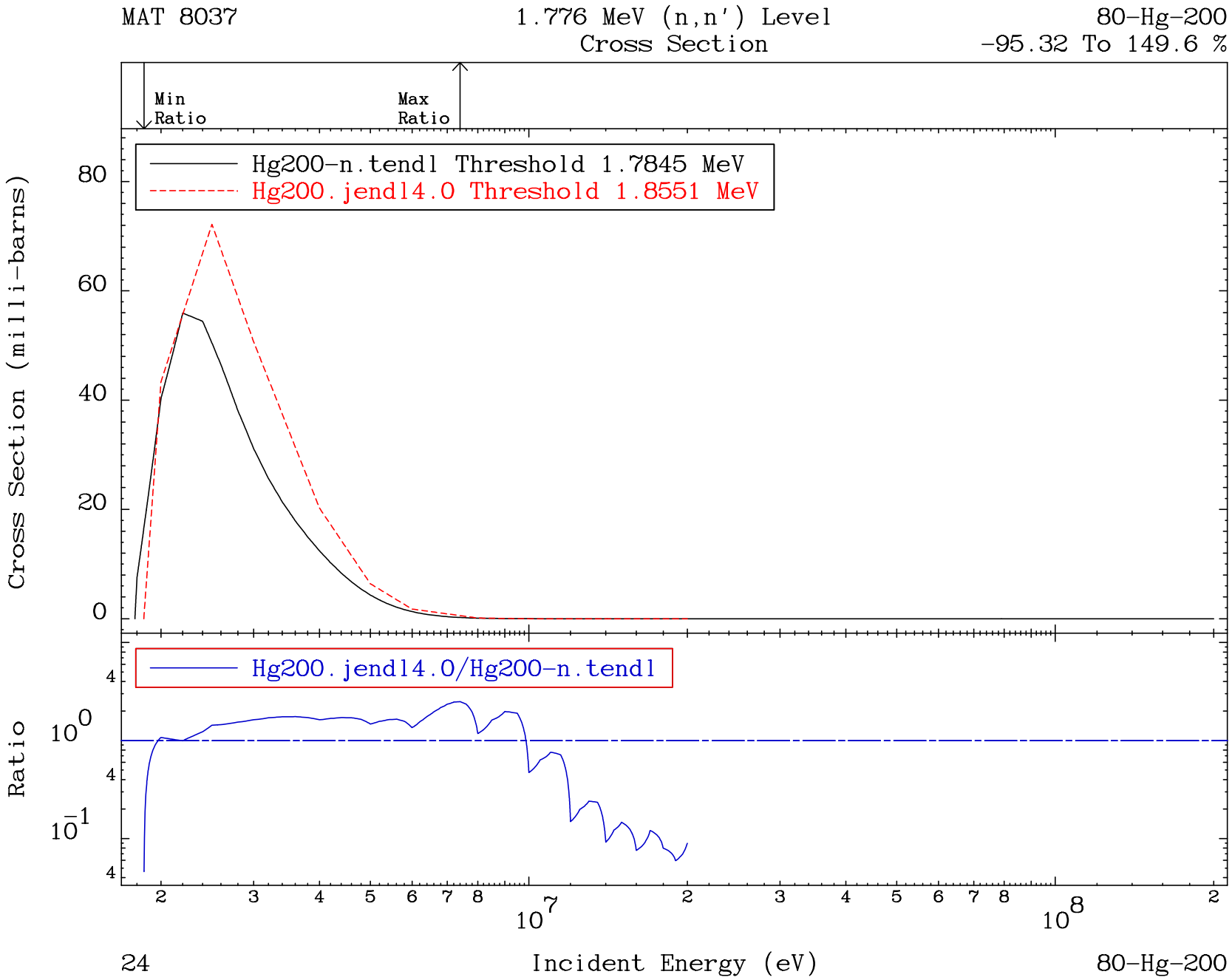

MAT 8037
1.659 MeV (n,n') Level
Cross Section
80-Hg-200
-98.74 To 77.71 %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 1.6674 MeV
Hg200.jendl4.0 Threshold 1.7153 MeV
Cross Section (milli-barns)
80
60
40
20
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
4
10^0
4
10^-1
4
10^-2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
80-Hg-200

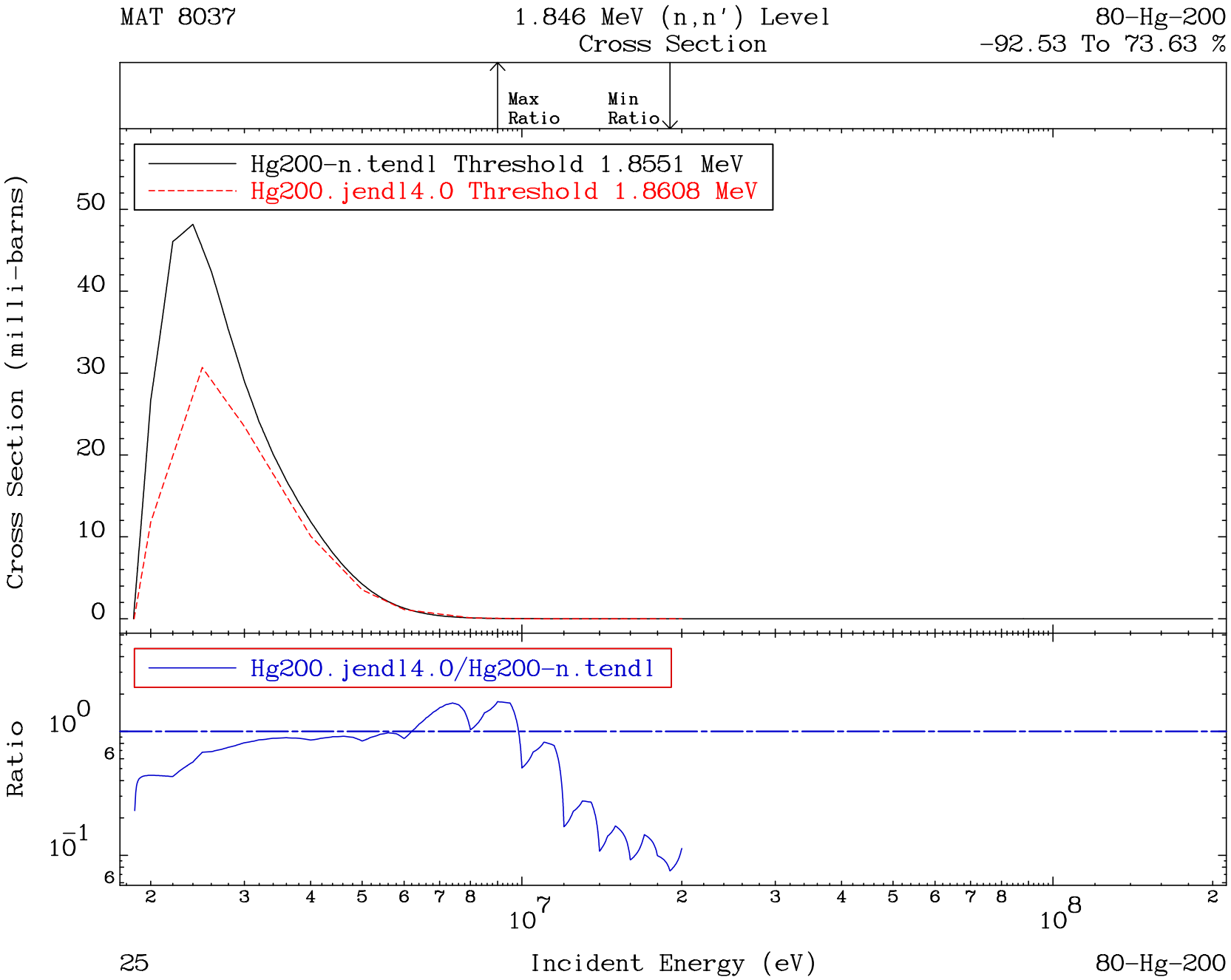

MAT 8037
1.707 MeV (n,n') Level
Cross Section
80-Hg-200
-100.0 To 1171. %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 1.7153 MeV
Hg200.jendl4.0 Threshold 1.7270 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^3
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
80-Hg-200

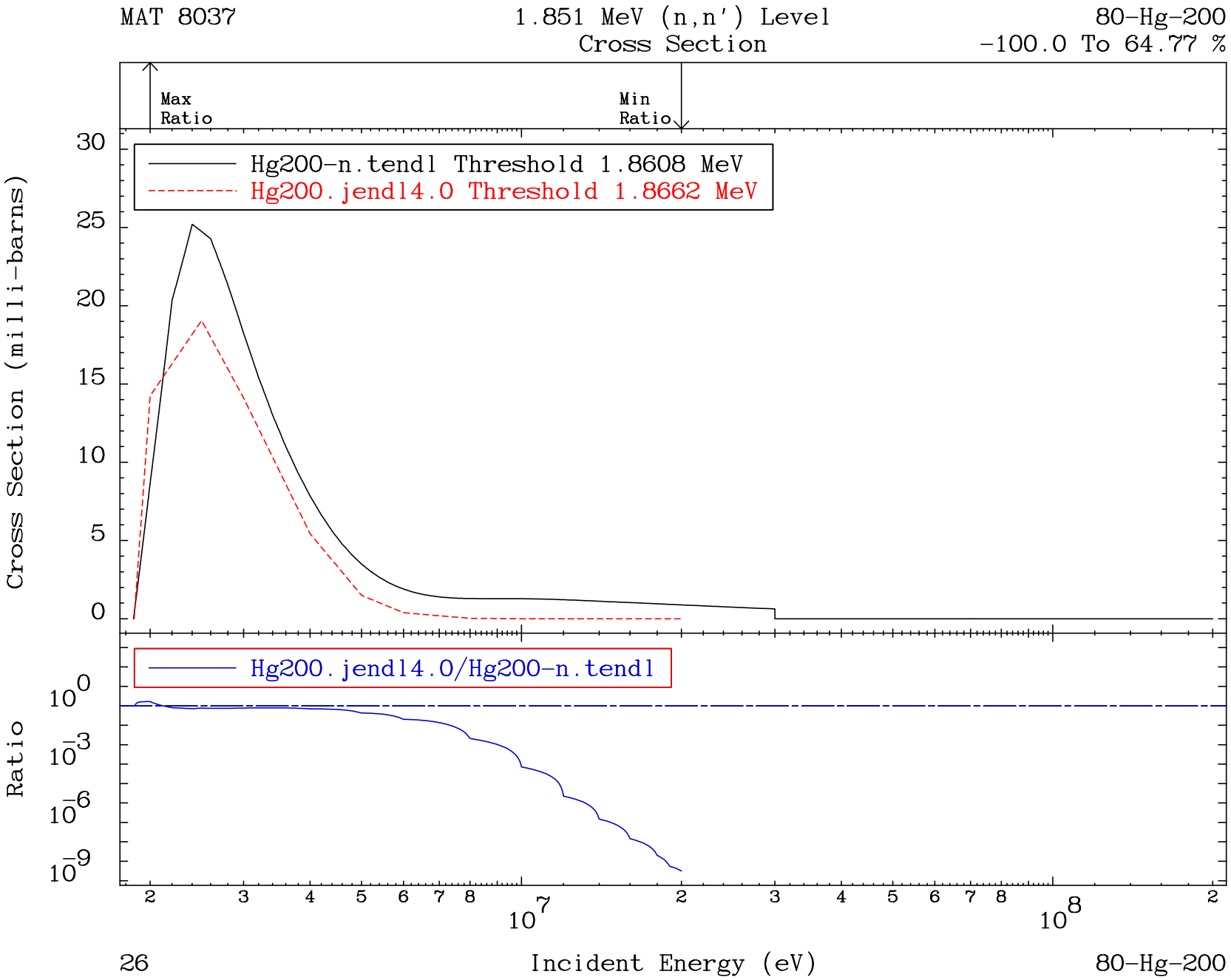

MAT 8037
1.718 MeV (n,n') Level
Cross Section
80-Hg-200
-90.73 To 276.8 %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 1.7270 MeV
Hg200.jendl4.0 Threshold 1.7396 MeV
Cross Section (milli-barns)
0
20
40
60
80
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^{-1}
10^{0}
4
4
2 3 4 5 6 7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
21
Incident Energy (eV)
80-Hg-200

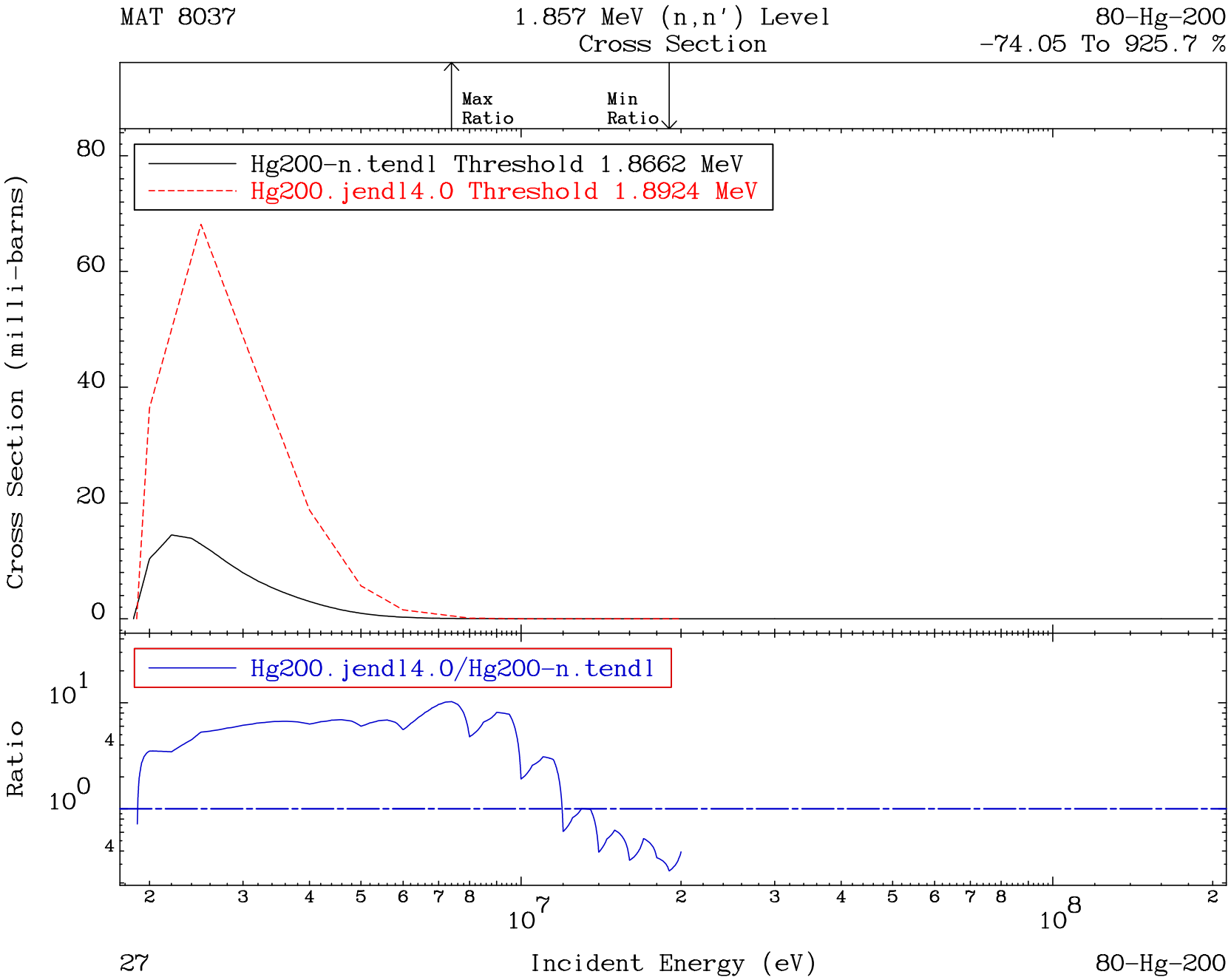

MAT 8037
1.731 MeV (n,n') Level
Cross Section
80-Hg-200
-100.0 To 61.56 %
Max
Ratio
Min
Ratio
Hg200-n.tendl Threshold 1.7397 MeV
Hg200.jendl4.0 Threshold 1.7431 MeV
Cross Section (milli-barns)
80
60
40
20
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
80-Hg-200

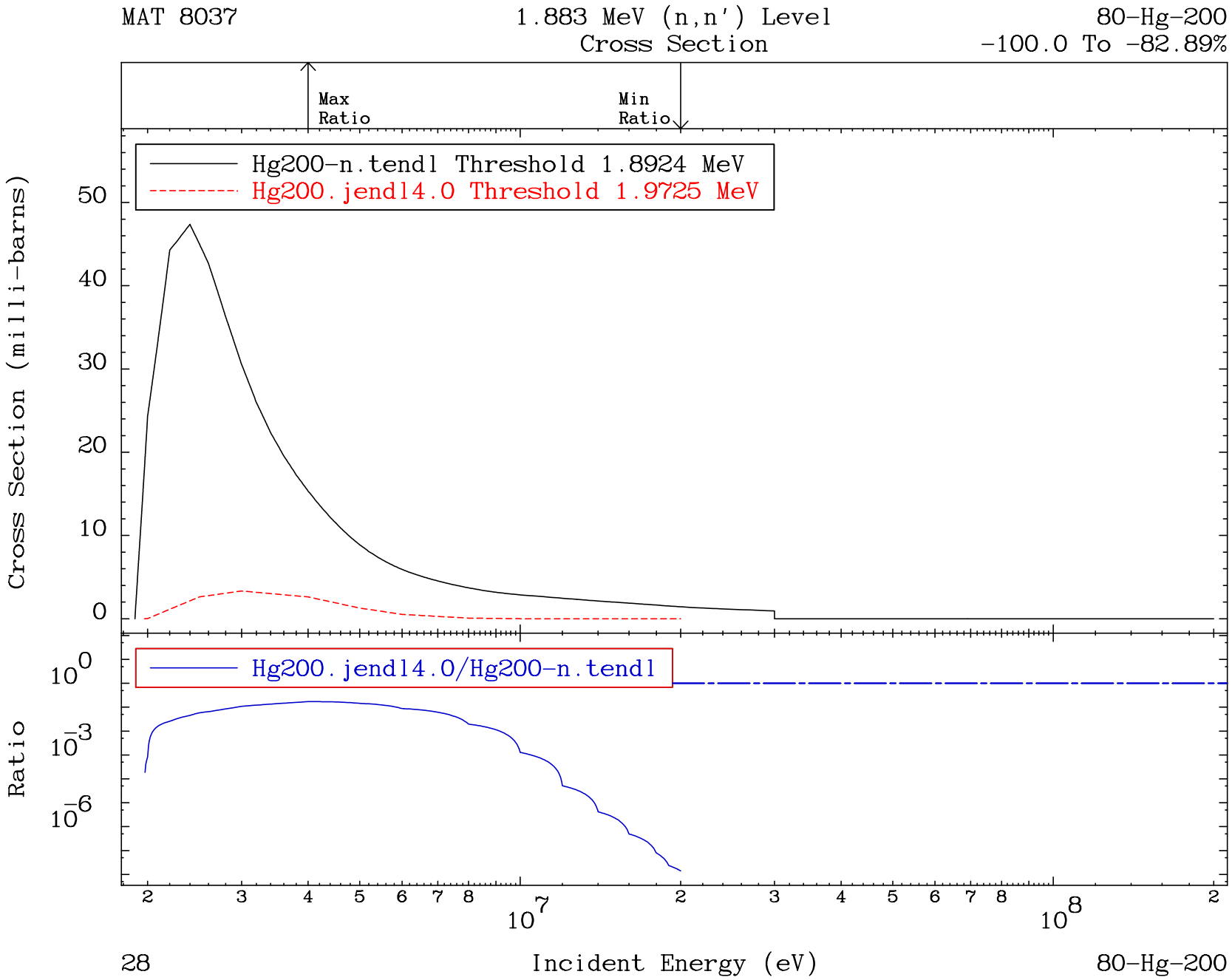

MAT 8037
1.734 MeV (n,n') Level
Cross Section
80-Hg-200
-94.04 To 151.0 %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 1.7431 MeV
Hg200.jendl4.0 Threshold 1.7846 MeV
Cross Section (milli-barns)
80
60
40
20
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
4
10^0
4
10^{-1}
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
80-Hg-200

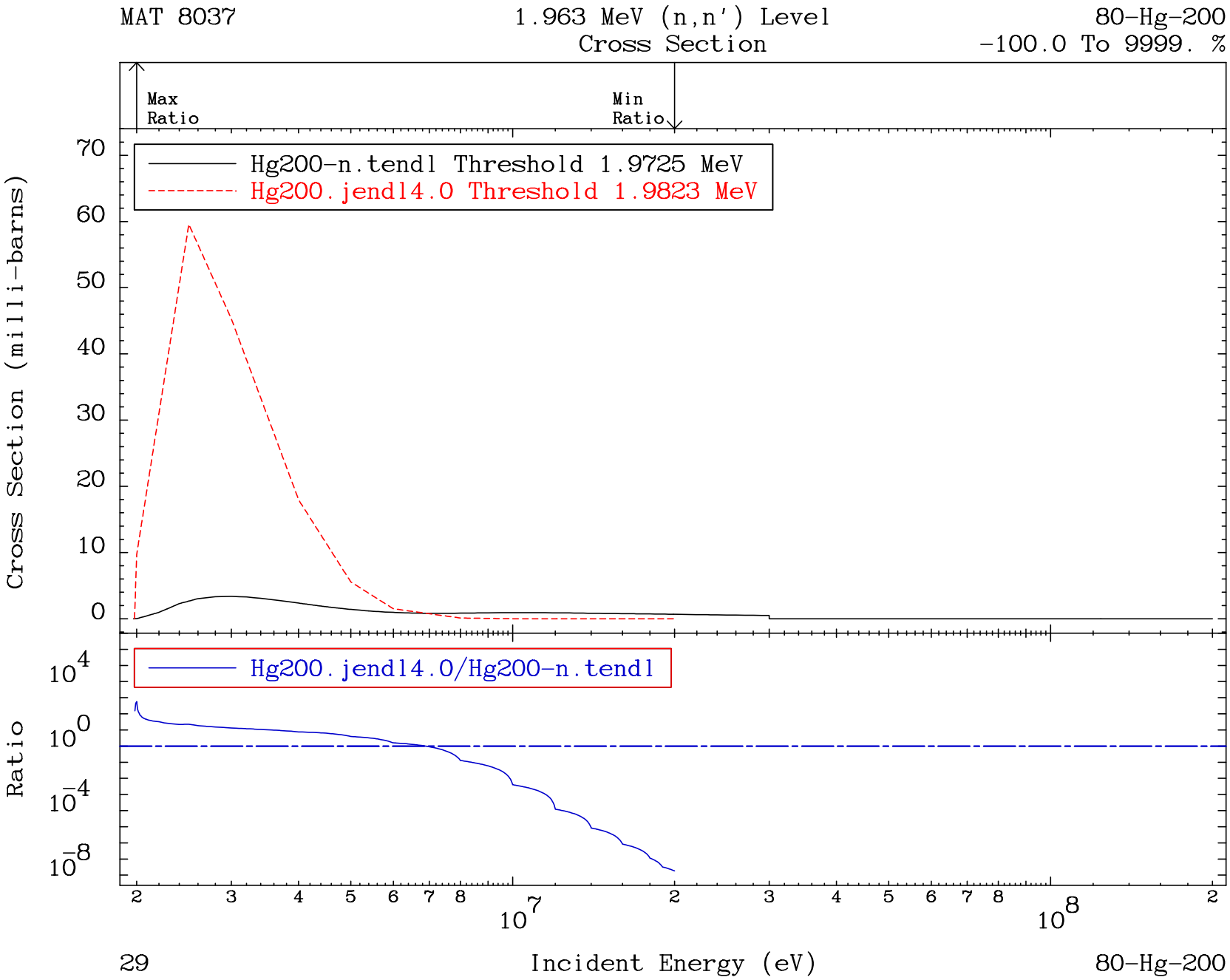

MAT 8037
1.776 MeV (n,n') Level
Cross Section
80-Hg-200
-95.32 To 149.6 %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 1.7845 MeV
Hg200.jendl4.0 Threshold 1.8551 MeV
Cross Section (milli-barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
24
80-Hg-200

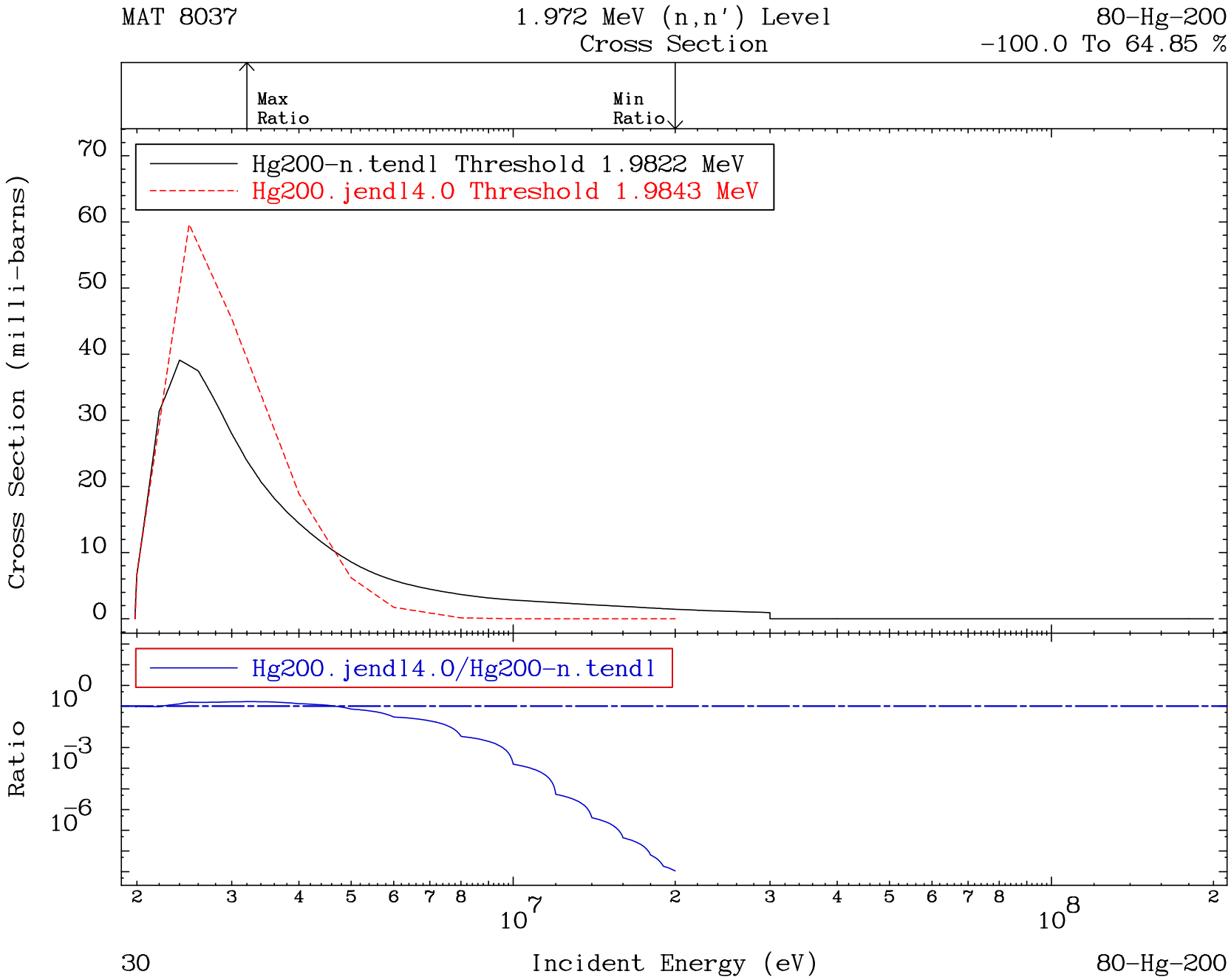

MAT 8037
1.846 MeV (n,n') Level
Cross Section
80-Hg-200
-92.53 To 73.63 %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 1.8551 MeV
Hg200.jendl4.0 Threshold 1.8608 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^0
10^-1
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
80-Hg-200

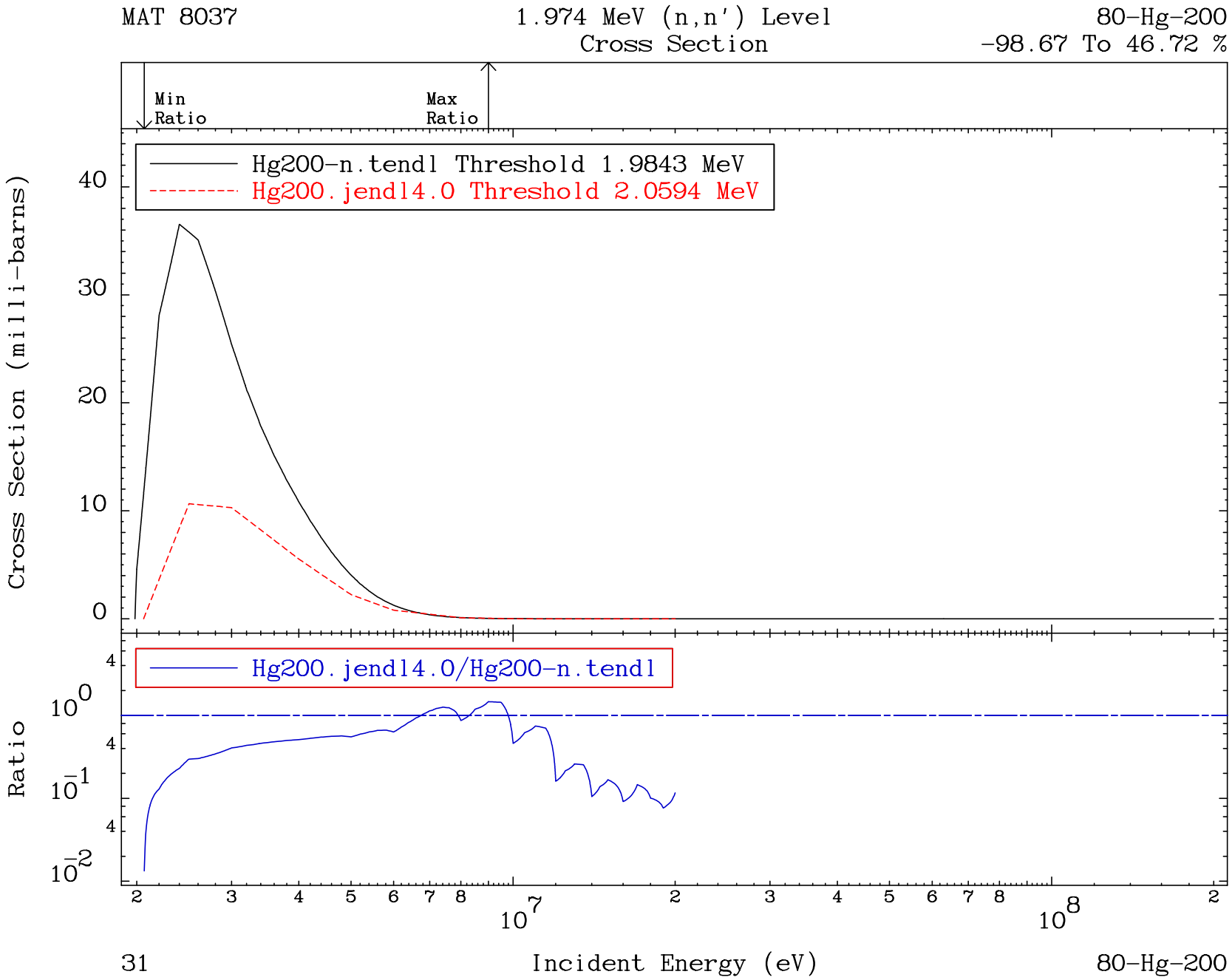

MAT 8037
1.851 MeV (n,n') Level
Cross Section
80-Hg-200
-100.0 To 64.77 %
Max
Ratio
Min
Ratio
Hg200-n.tendl Threshold 1.8608 MeV
Hg200.jendl4.0 Threshold 1.8662 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
26
Incident Energy (eV)
80-Hg-200

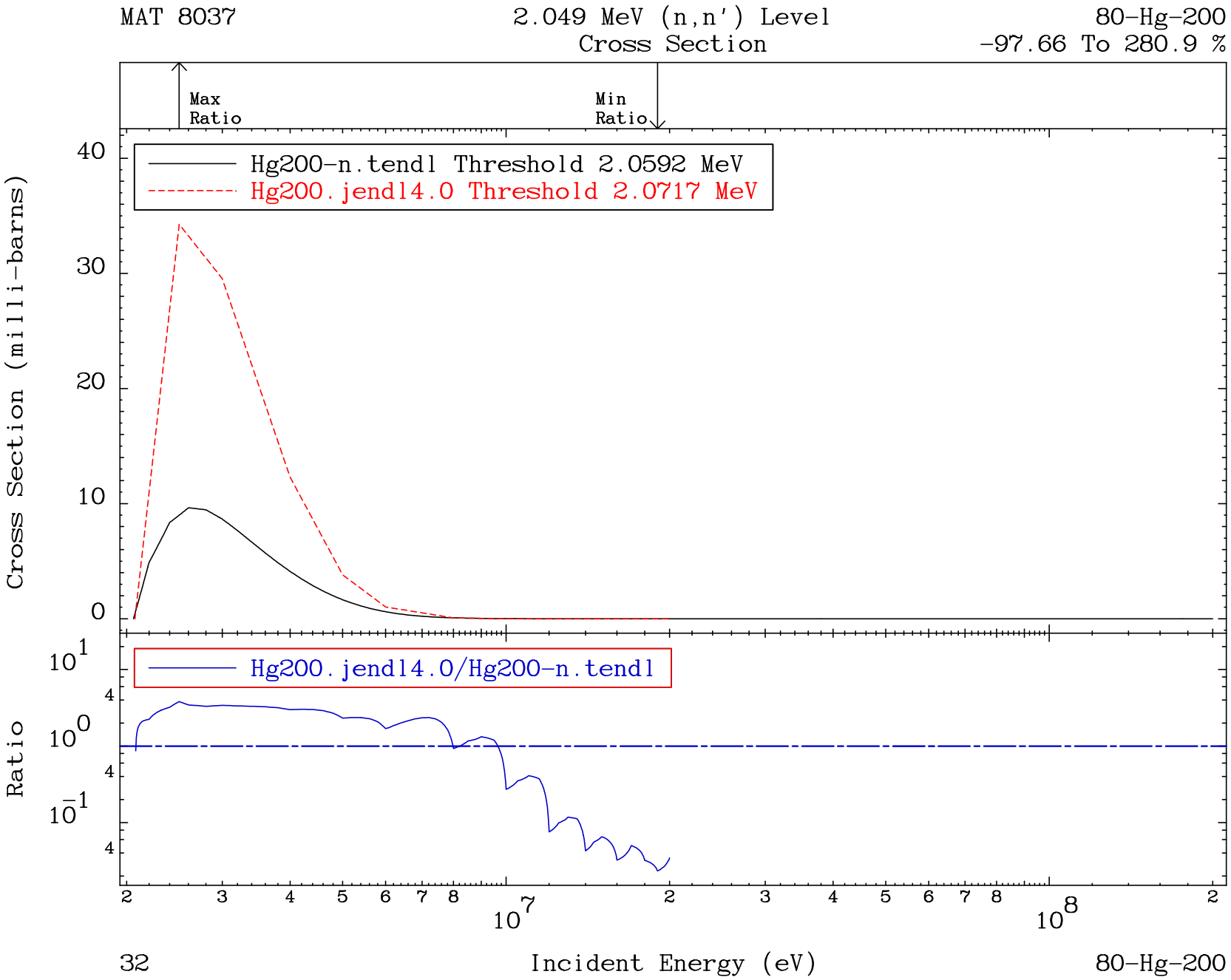

MAT 8037
1.857 MeV (n,n') Level
Cross Section
80-Hg-200
-74.05 To 925.7 %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 1.8662 MeV
Hg200.jendl4.0 Threshold 1.8924 MeV
Cross Section (milli-barns)
80
60
40
20
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^1
4
10^0
4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
80-Hg-200

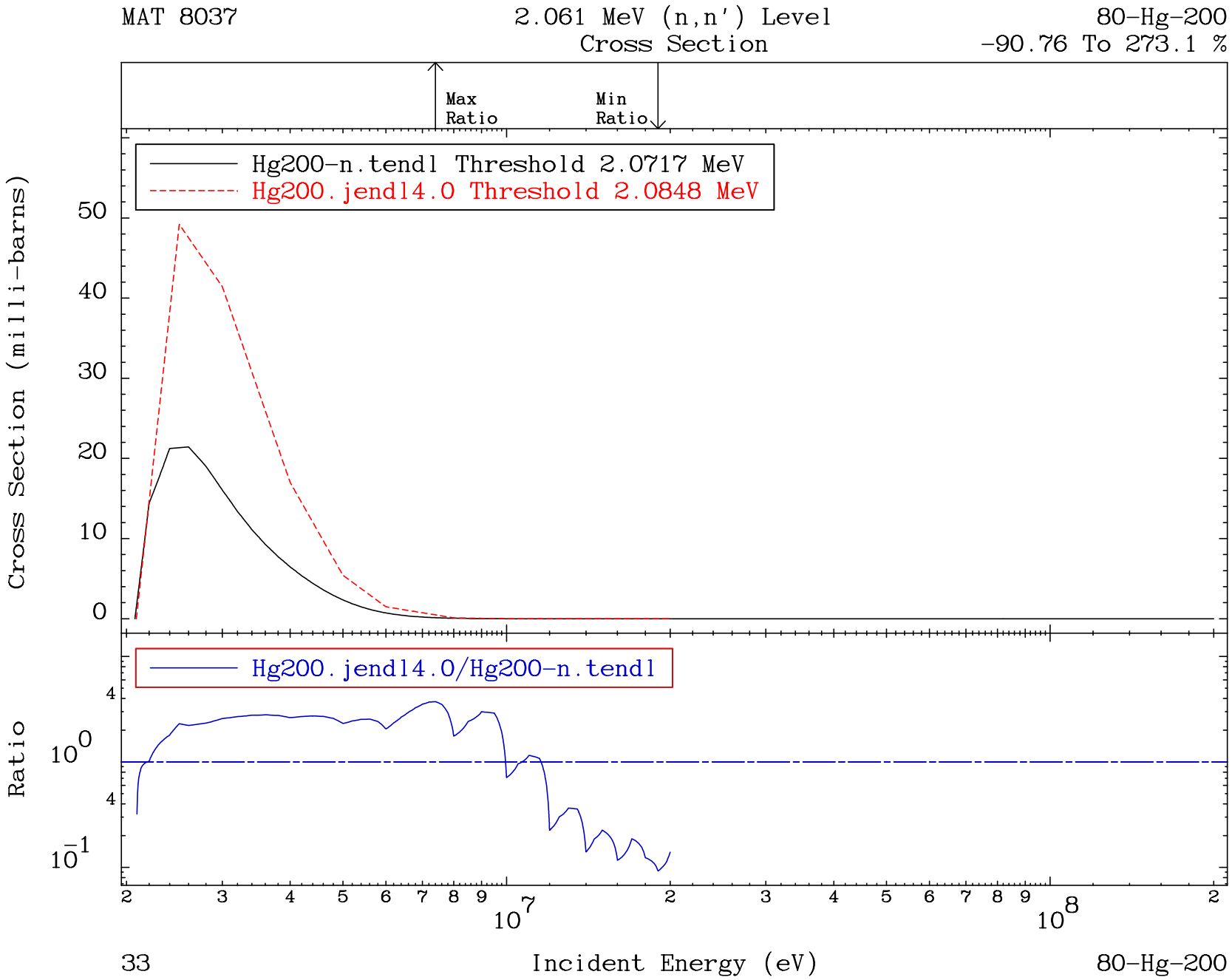

MAT 8037
1.883 MeV (n,n') Level
Cross Section
80-Hg-200
-100.0 To -82.89%
Max
Ratio
Min
Ratio
Hg200-n.tendl Threshold 1.8924 MeV
Hg200.jendl4.0 Threshold 1.9725 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
10^8
28
Incident Energy (eV)
80-Hg-200

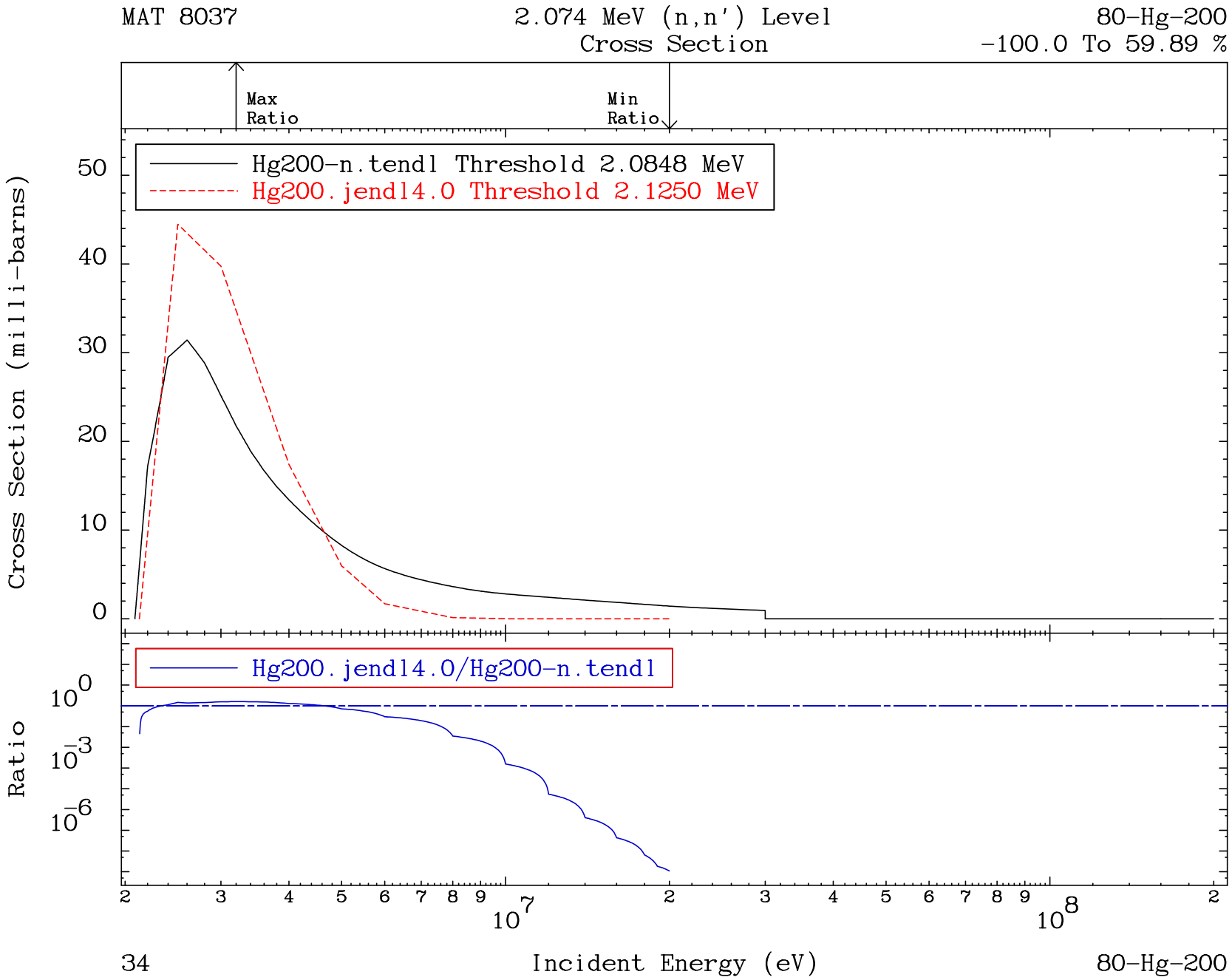

MAT 8037
1.963 MeV (n,n') Level
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 1.9725 MeV
Hg200.jendl4.0 Threshold 1.9823 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^4
10^0
10^-4
10^-8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
80-Hg-200

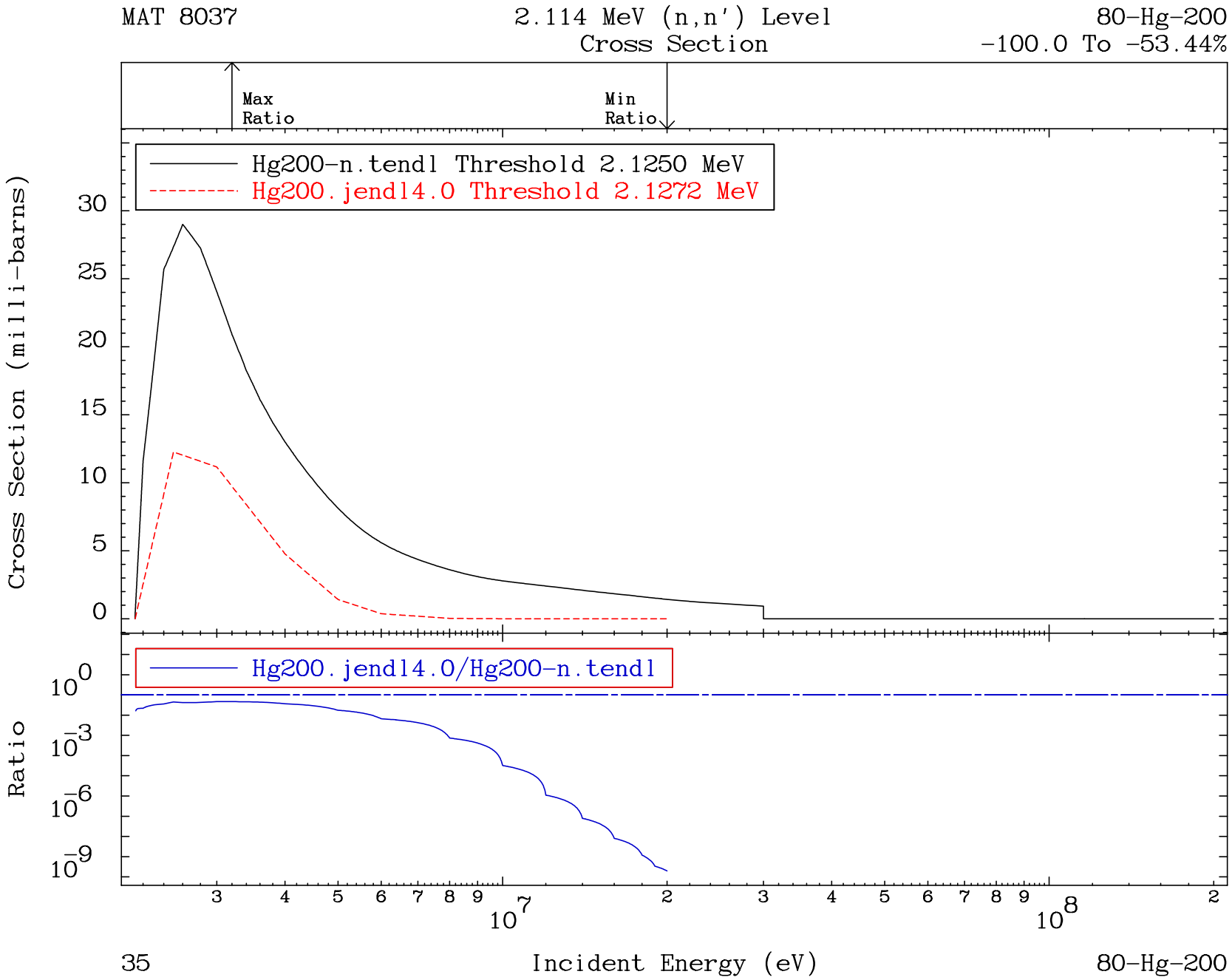

MAT 8037
1.972 MeV (n,n') Level
Cross Section
80-Hg-200
-100.0 To 64.85 %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 1.9822 MeV
Hg200.jendl4.0 Threshold 1.9843 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
80-Hg-200

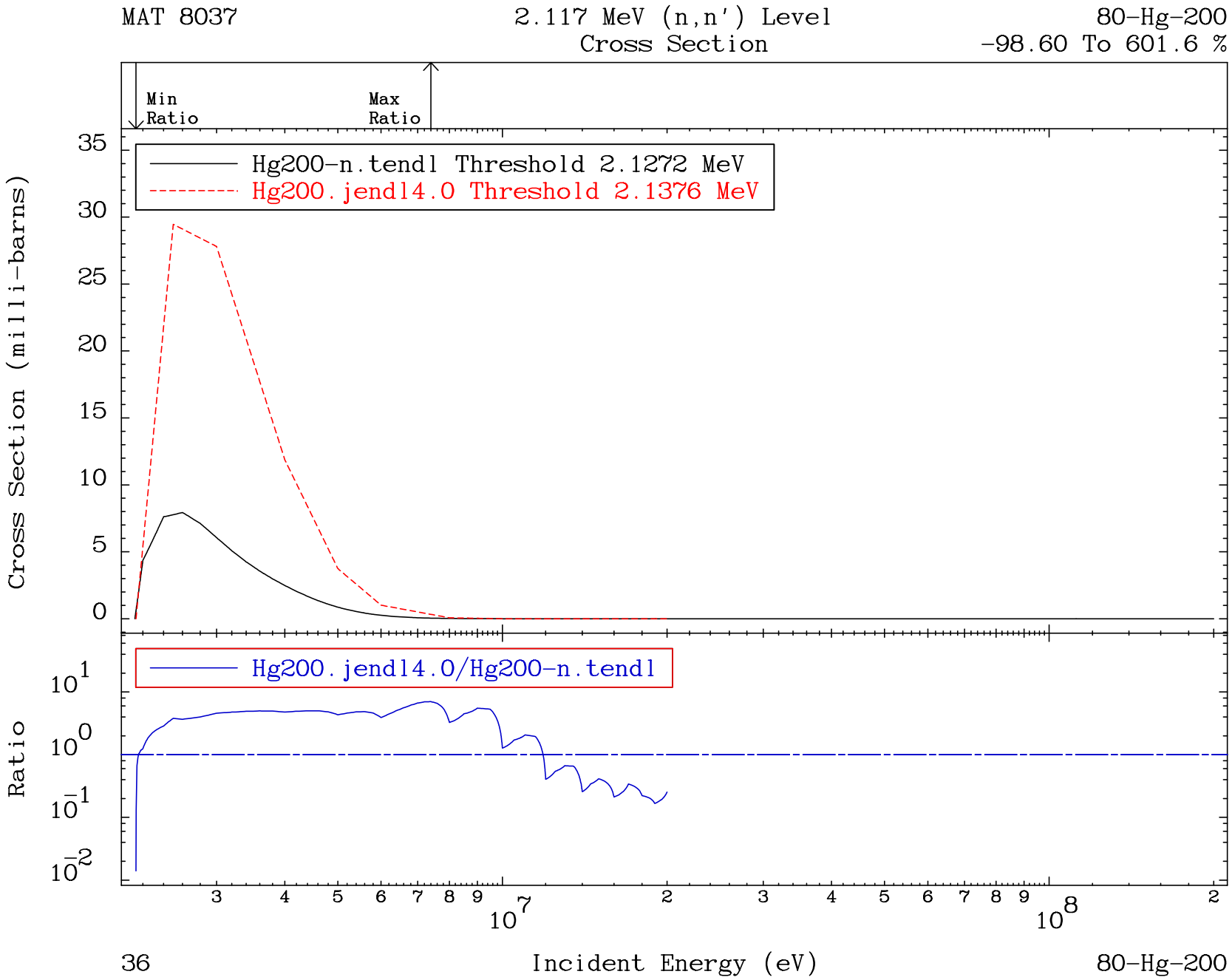

MAT 8037
1.974 MeV (n,n') Level
Cross Section
80-Hg-200
-98.67 To 46.72 %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 1.9843 MeV
Hg200.jendl4.0 Threshold 2.0594 MeV
Cross Section (milli-barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
31
80-Hg-200

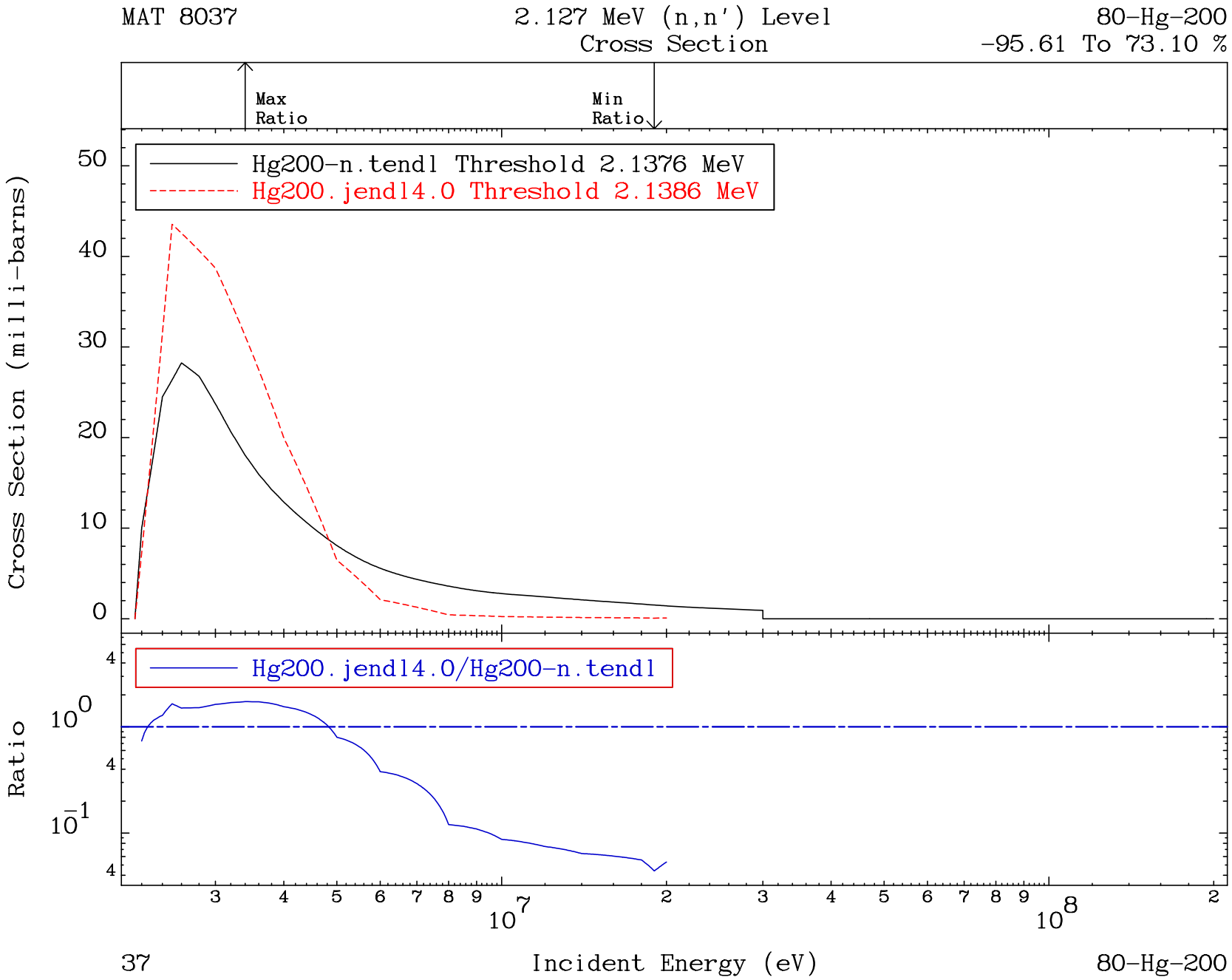

MAT 8037
2.049 MeV (n,n') Level
Cross Section
80-Hg-200
-97.66 To 280.9 %
Max
Ratio
Min
Ratio
Hg200-n.tendl Threshold 2.0592 MeV
Hg200.jendl4.0 Threshold 2.0717 MeV
Cross Section (milli-barns)
40
30
20
10
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^1
10^0
10^-1
2
3
4
5
6
7
8
10^7
10^8
32
Incident Energy (eV)
80-Hg-200

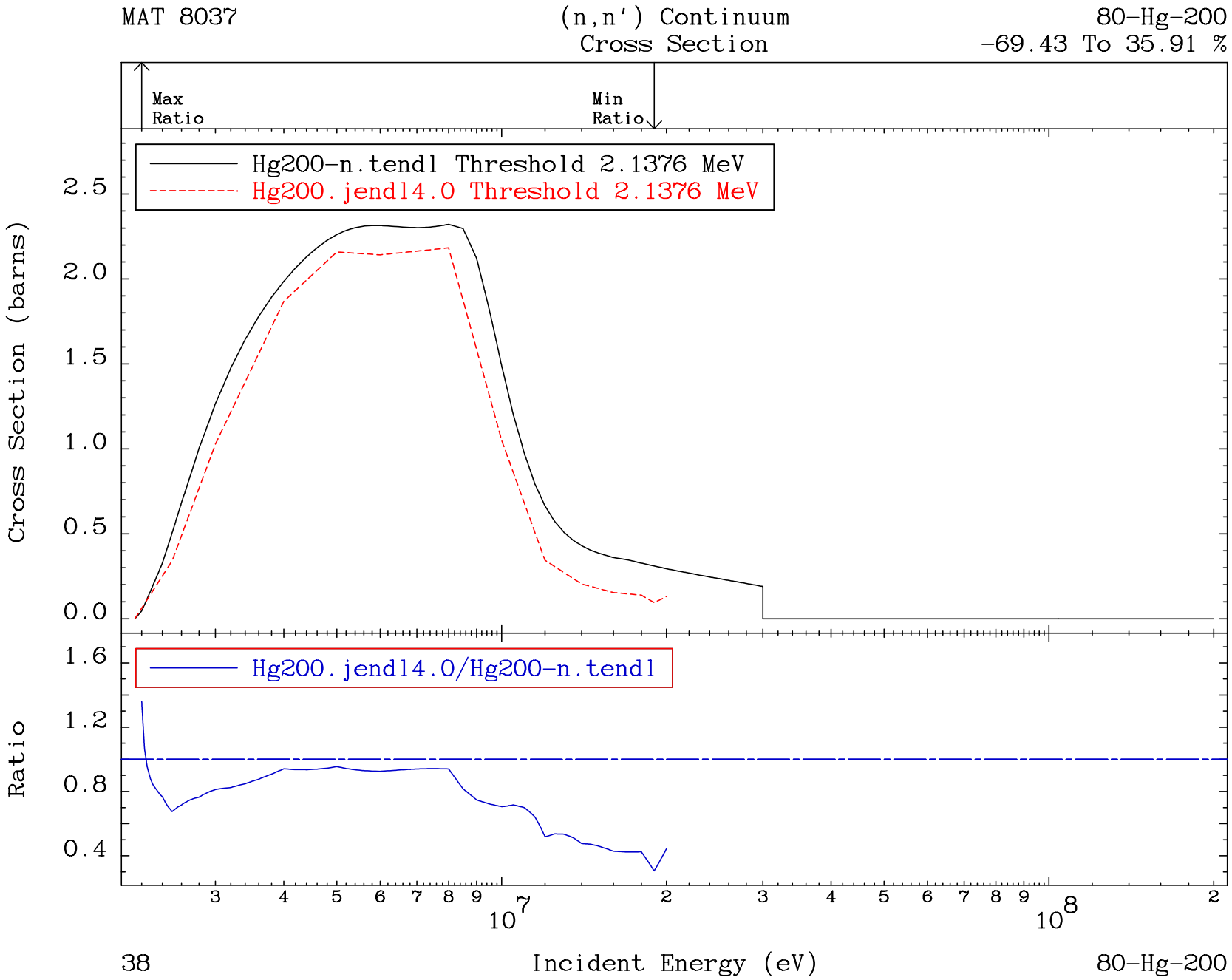

MAT 8037
2.061 MeV (n,n') Level
Cross Section
80-Hg-200
-90.76 To 273.1 %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 2.0717 MeV
Hg200.jendl4.0 Threshold 2.0848 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
4
10^0
4
10^{-1}
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
80-Hg-200

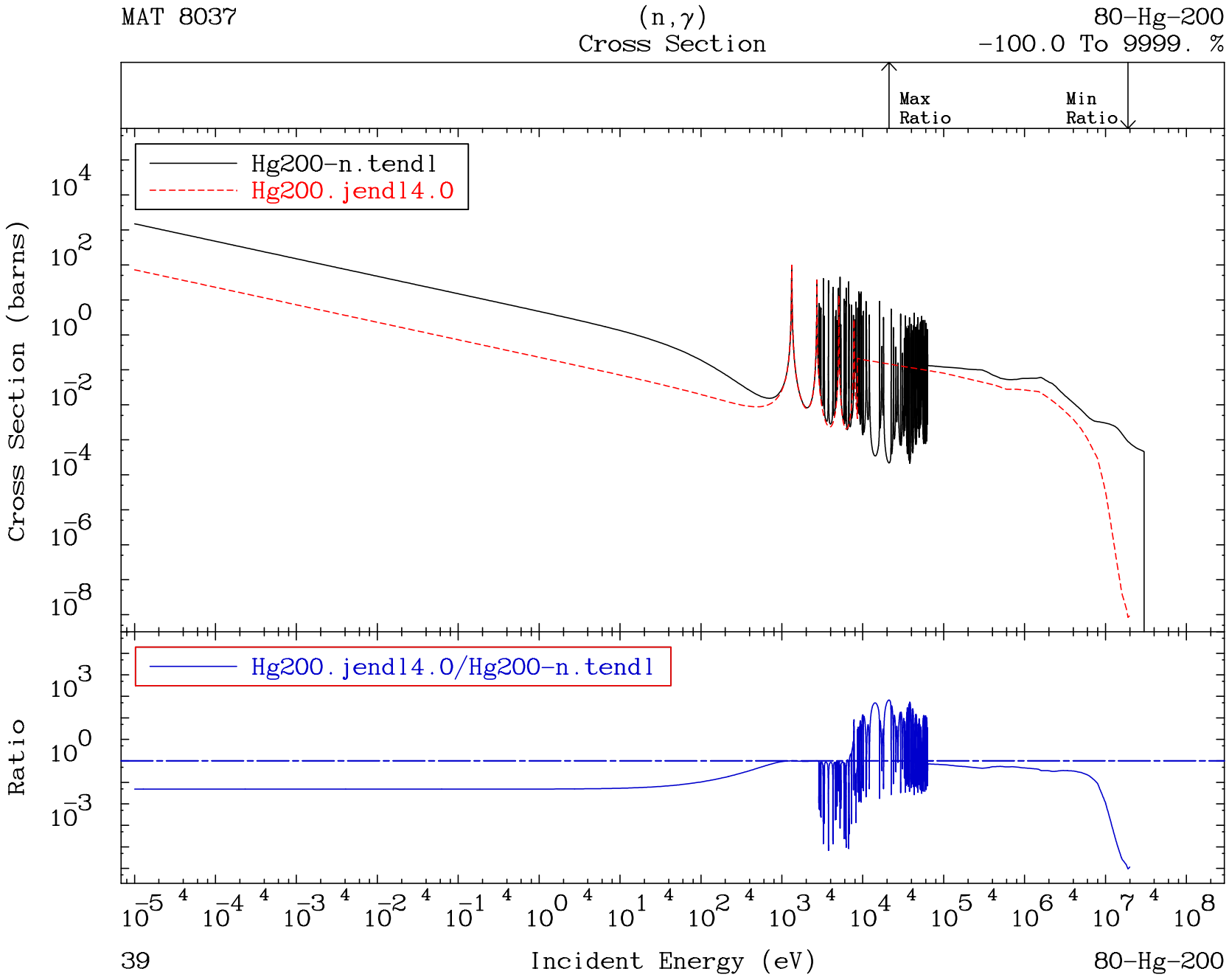

MAT 8037
2.074 MeV (n,n') Level
Cross Section
80-Hg-200
-100.0 To 59.89 %
Max
Ratio
Min
Ratio
Hg200-n.tendl Threshold 2.0848 MeV
Hg200.jendl4.0 Threshold 2.1250 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
34
Incident Energy (eV)
80-Hg-200

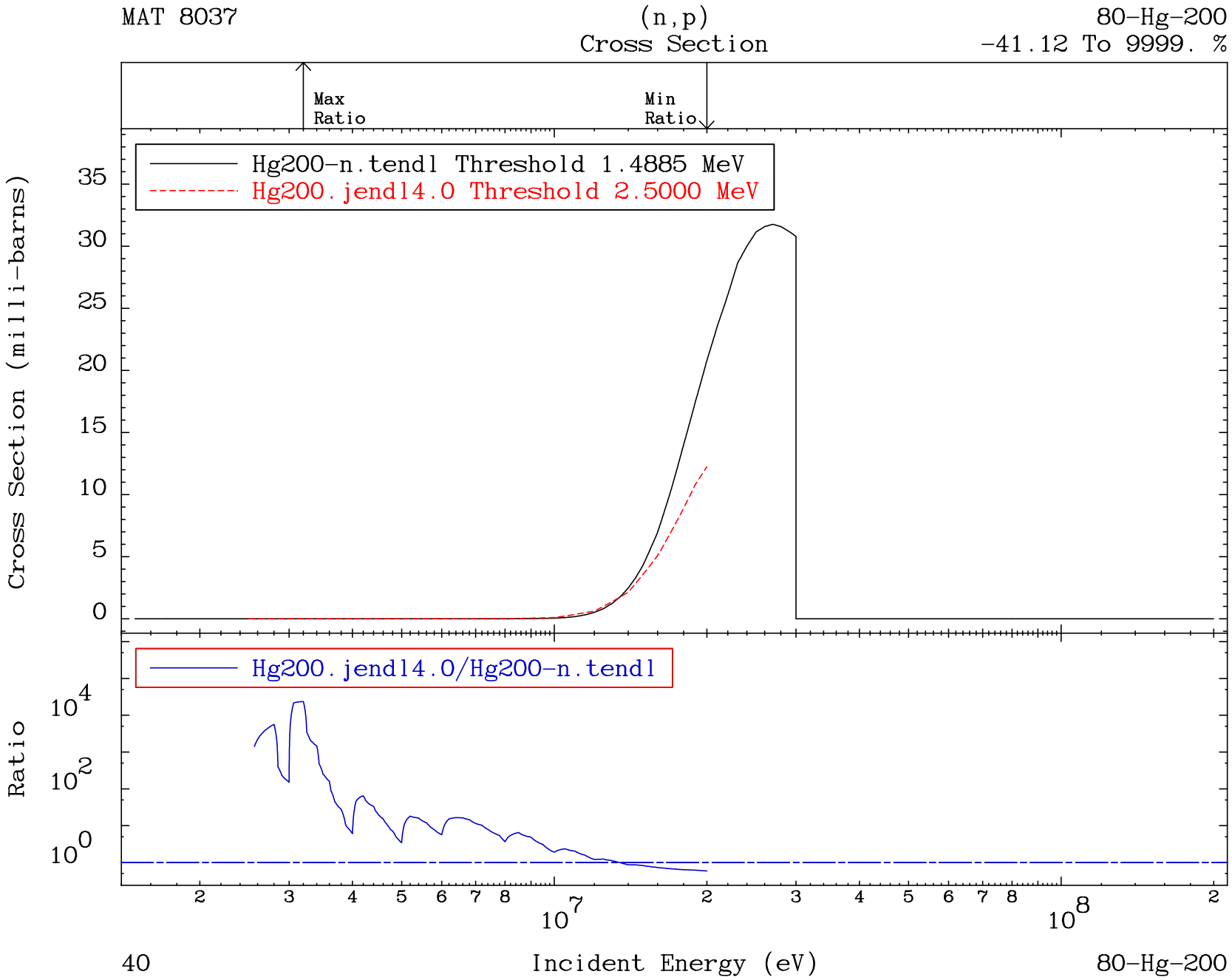

MAT 8037
2.114 MeV (n,n') Level
Cross Section
80-Hg-200
-100.0 To -53.44%
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 2.1250 MeV
Hg200.jendl4.0 Threshold 2.1272 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
80-Hg-200

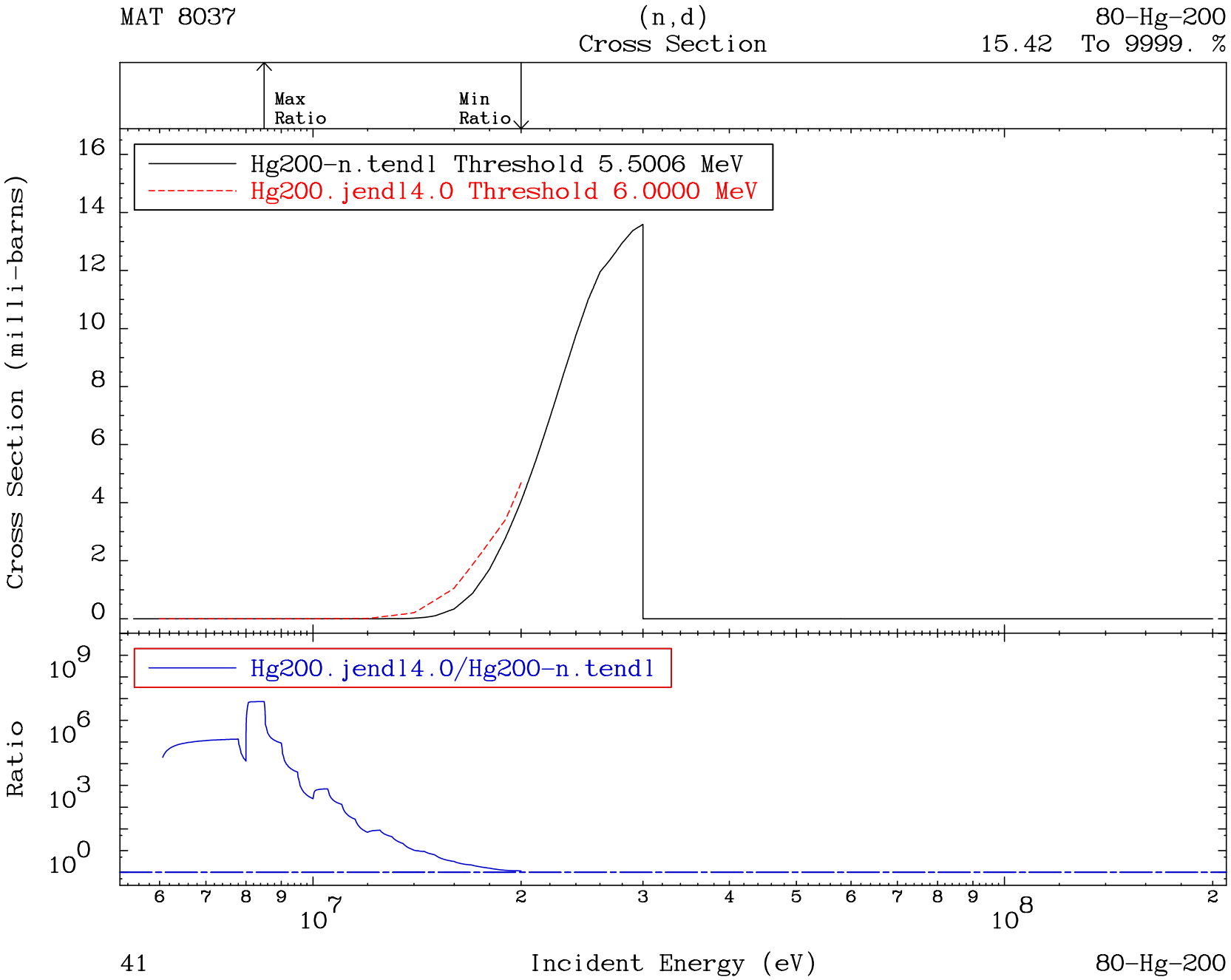

MAT 8037
2.117 MeV (n,n') Level
Cross Section
80-Hg-200
-98.60 To 601.6 %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 2.1272 MeV
Hg200.jendl4.0 Threshold 2.1376 MeV
Cross Section (milli-barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
36
80-Hg-200

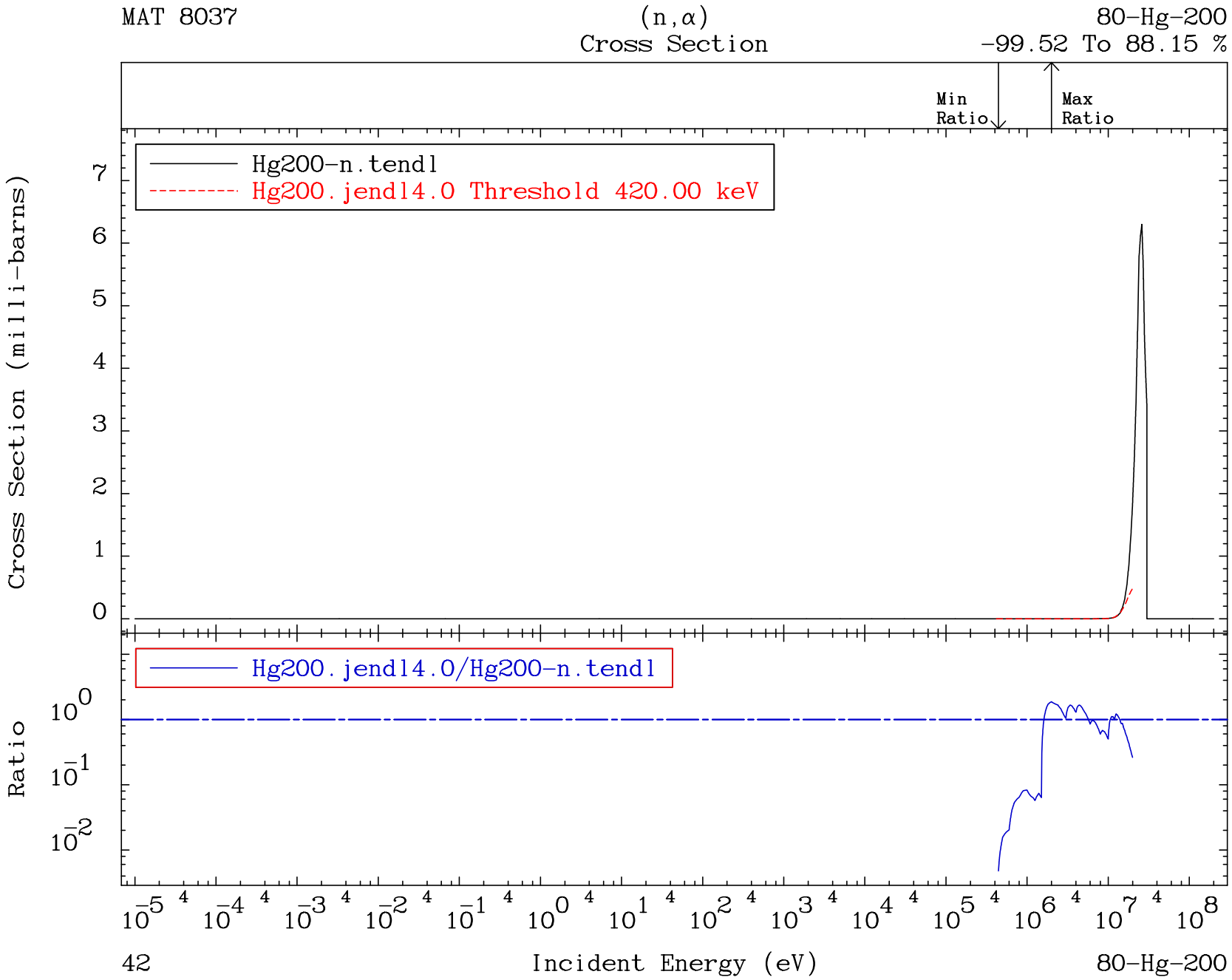

MAT 8037
2.127 MeV (n,n') Level
Cross Section
80-Hg-200
-95.61 To 73.10 %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 2.1376 MeV
Hg200.jendl4.0 Threshold 2.1386 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
4
10^{0}
4
10^{-1}
4
3 4 5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
37
Incident Energy (eV)
80-Hg-200

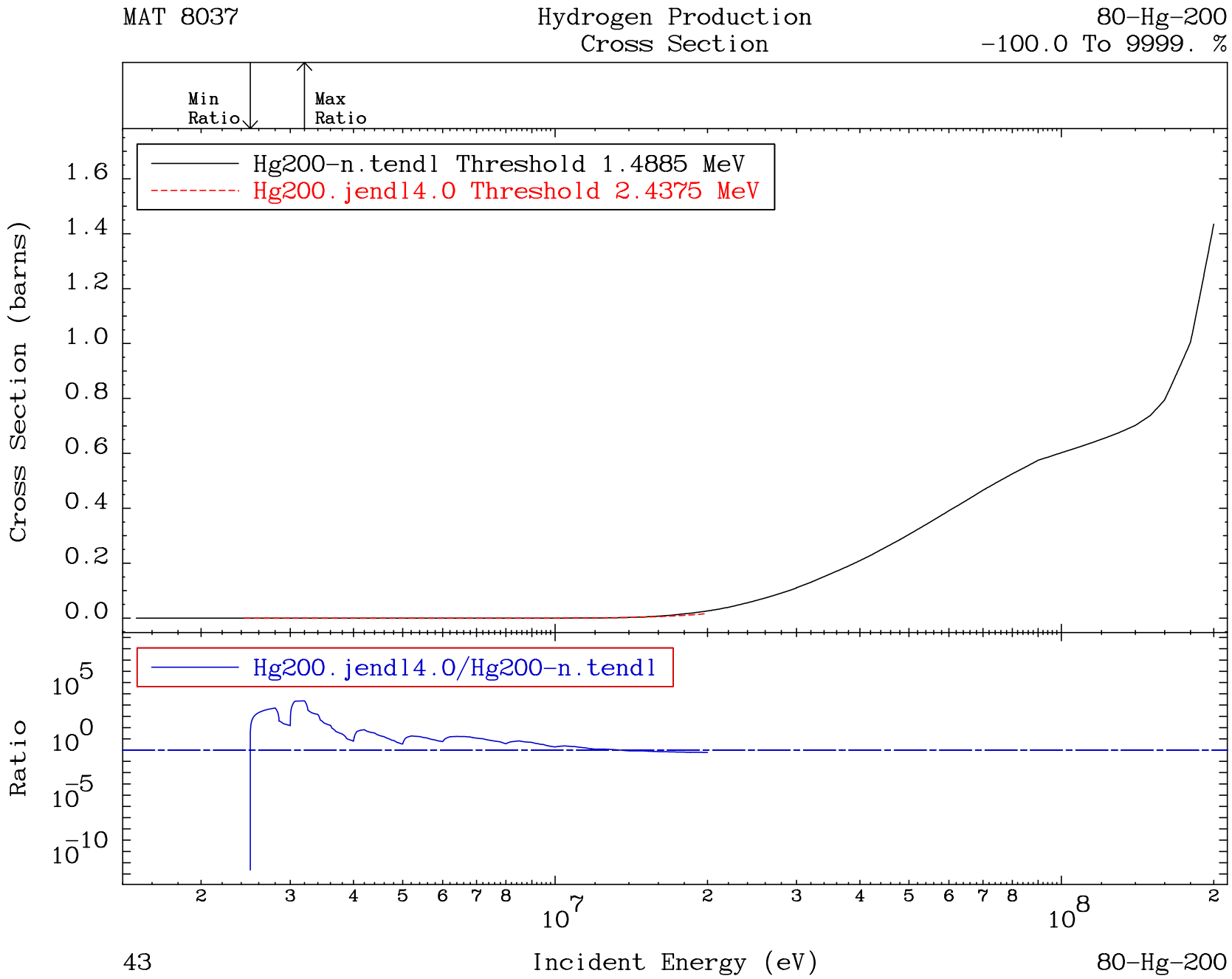

MAT 8037
(n,n') Continuum
Cross Section
80-Hg-200
-69.43 To 35.91 %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 2.1376 MeV
Hg200.jendl4.0 Threshold 2.1376 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
1.6
1.2
0.8
0.4
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
38
Incident Energy (eV)
80-Hg-200

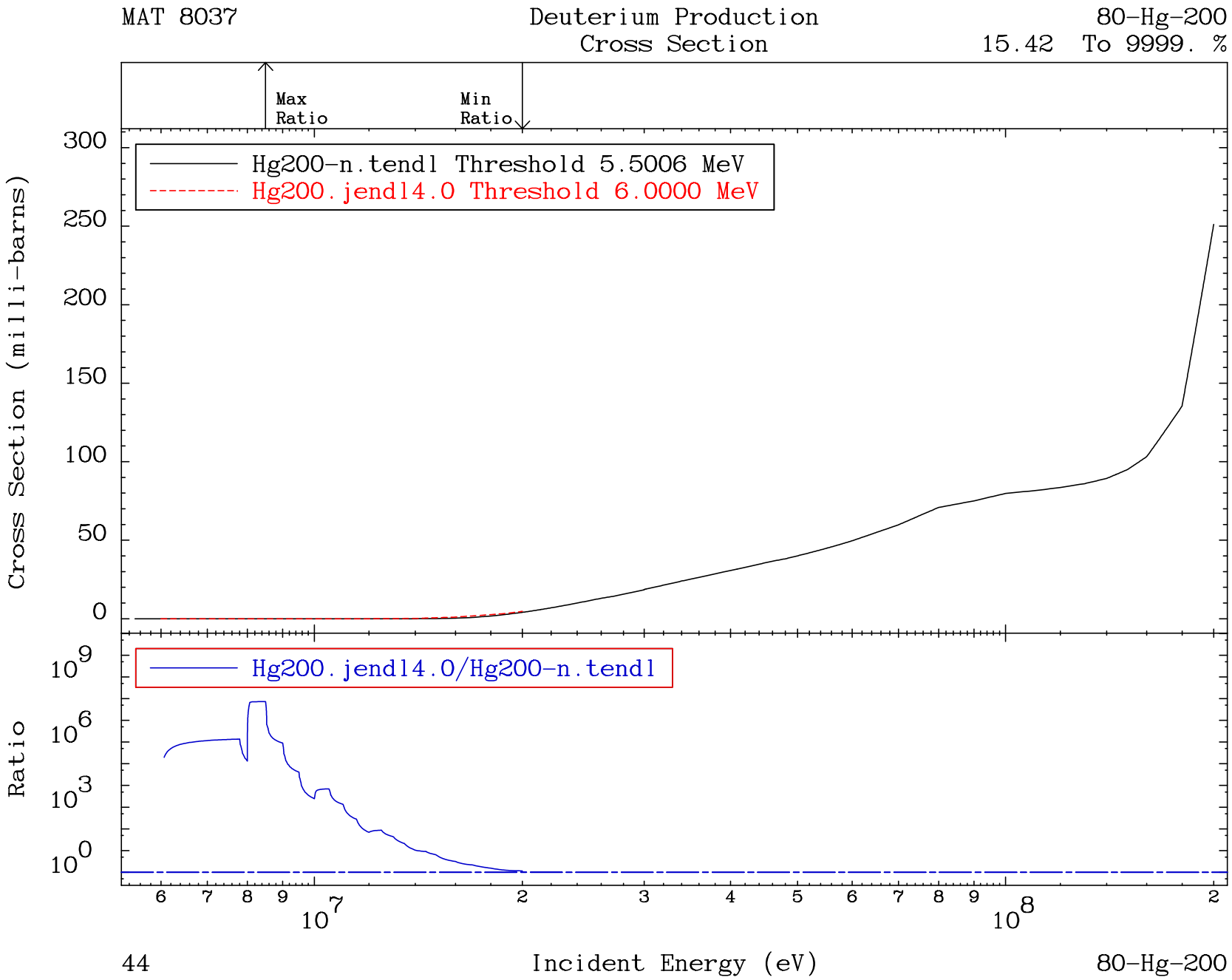

MAT 8037
(n,γ)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
Hg200-n.tendl
Hg200.jendl4.0
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
39
80-Hg-200

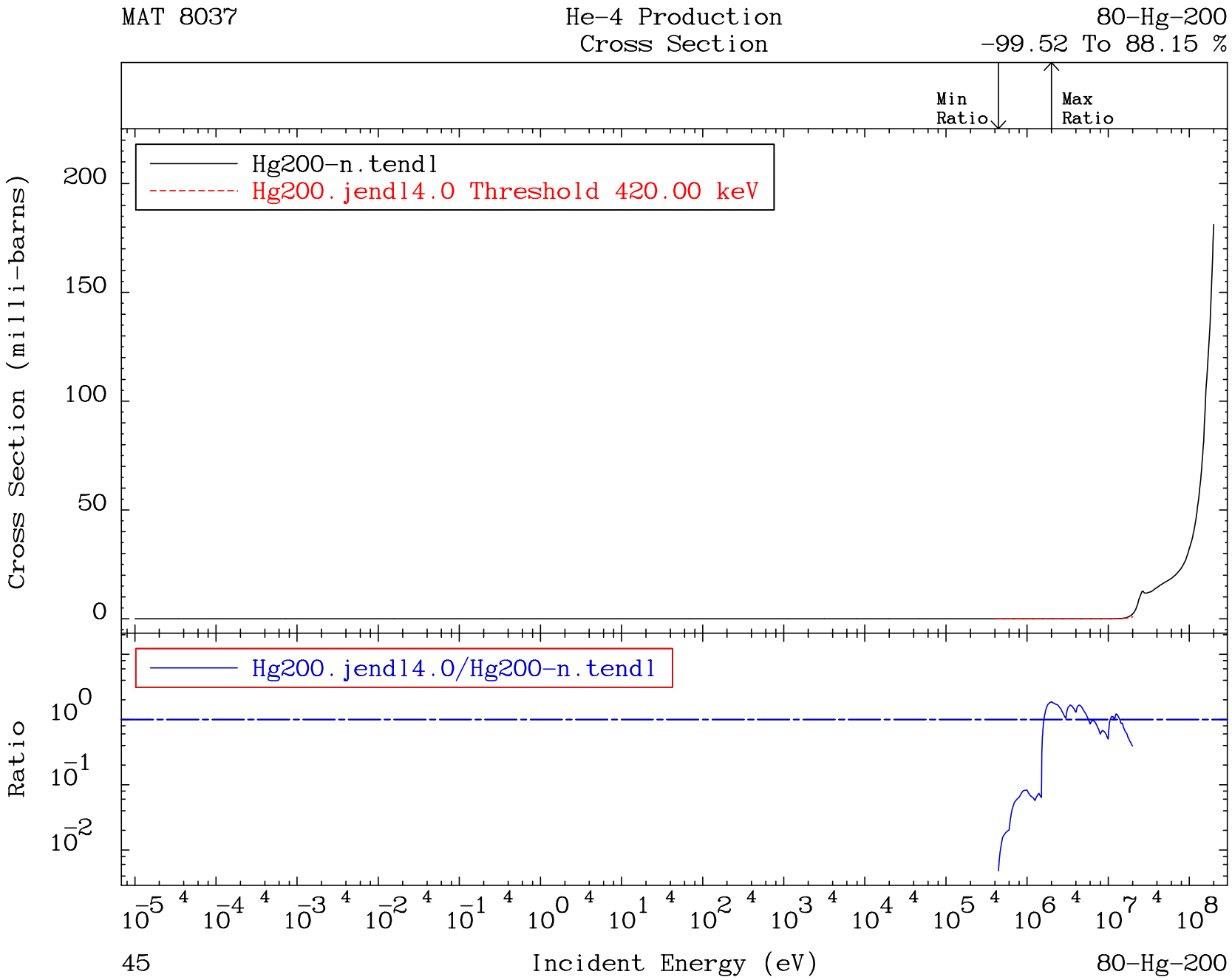

MAT 8037
(n,p)
Cross Section
80-Hg-200
-41.12 To 9999. %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 1.4885 MeV
Hg200.jendl4.0 Threshold 2.5000 MeV
Cross Section (milli-barns)
0
5
10
15
20
25
30
35
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^0
10^2
10^4
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
40
Incident Energy (eV)
80-Hg-200

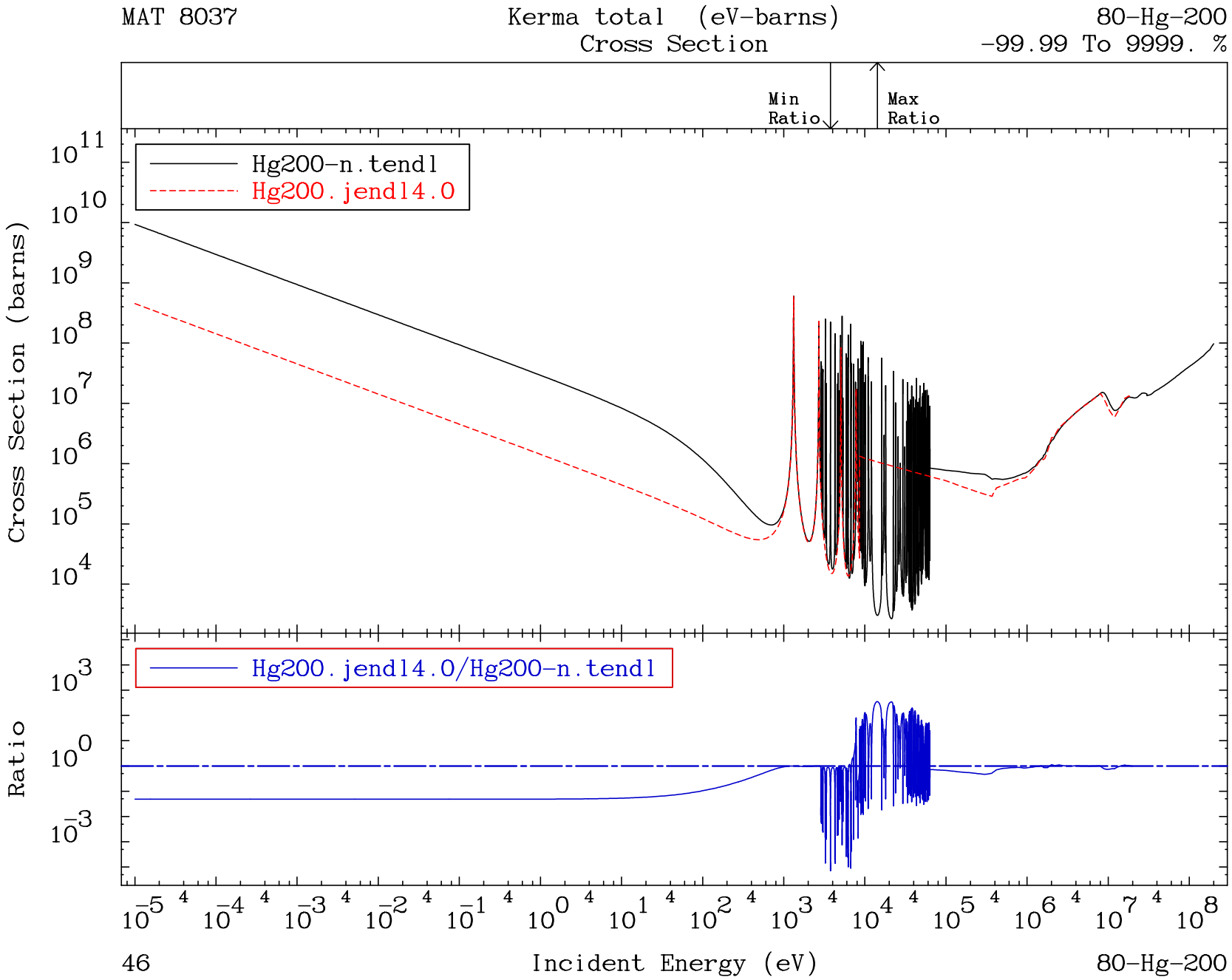

MAT 8037
(n,d)
Cross Section
80-Hg-200
15.42 To 9999. %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 5.5006 MeV
Hg200.jendl4.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^9
10^6
10^3
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
80-Hg-200

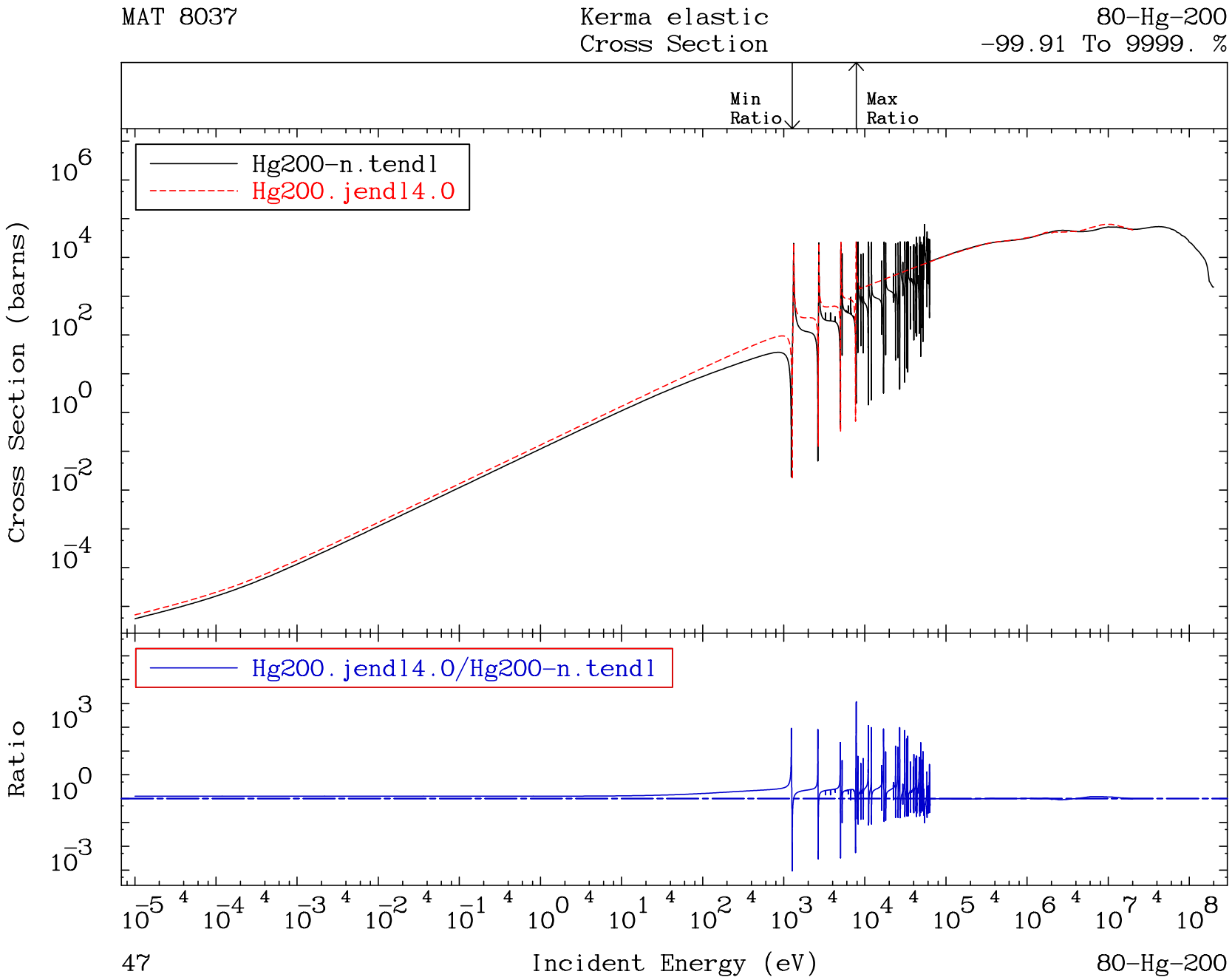

MAT 8037
(n,α)
Cross Section
80-Hg-200
-99.52 To 88.15 %
Min Ratio
Max Ratio
Hg200-n.tendl
Hg200.jendl4.0 Threshold 420.00 keV
Cross Section (milli-barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
42
80-Hg-200

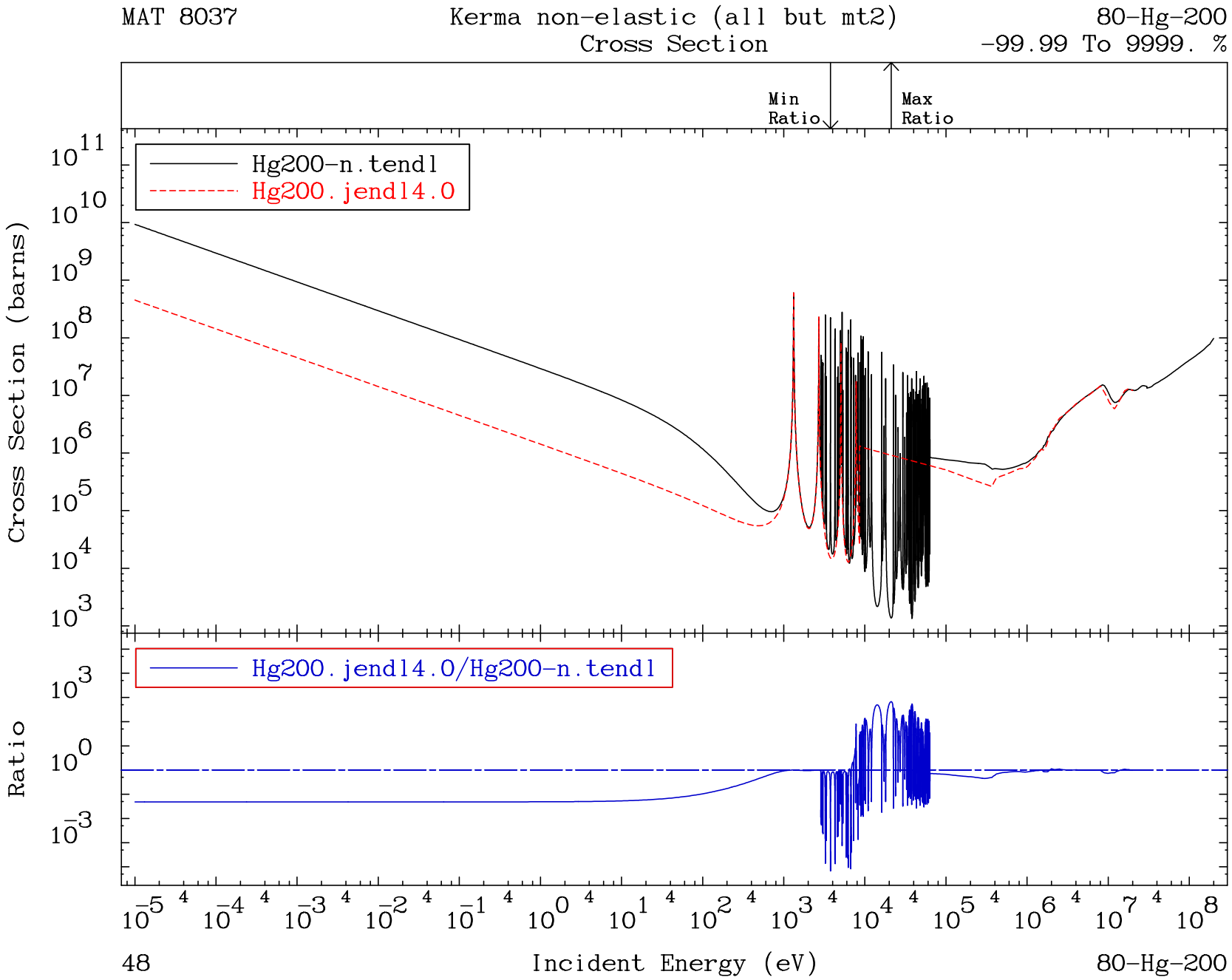

MAT 8037
Hydrogen Production
Cross Section
80-Hg-200
-100.0 To 9999. %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 1.4885 MeV
Hg200.jendl4.0 Threshold 2.4375 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^5
10^0
10^-5
10^-10
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
43
Incident Energy (eV)
80-Hg-200

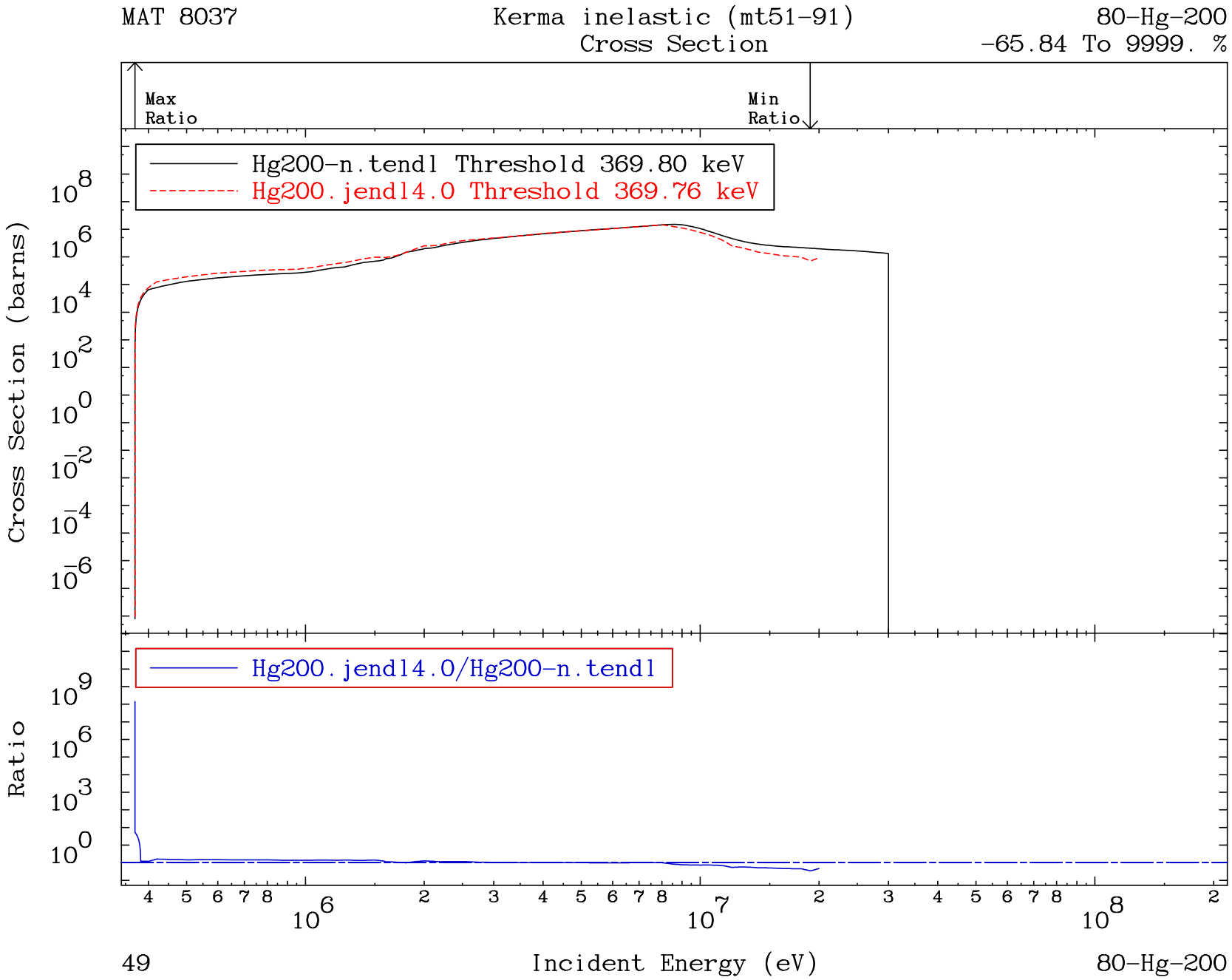

MAT 8037
Deuterium Production
Cross Section
80-Hg-200
15.42 To 9999. %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 5.5006 MeV
Hg200.jendl4.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^9
10^6
10^3
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
80-Hg-200

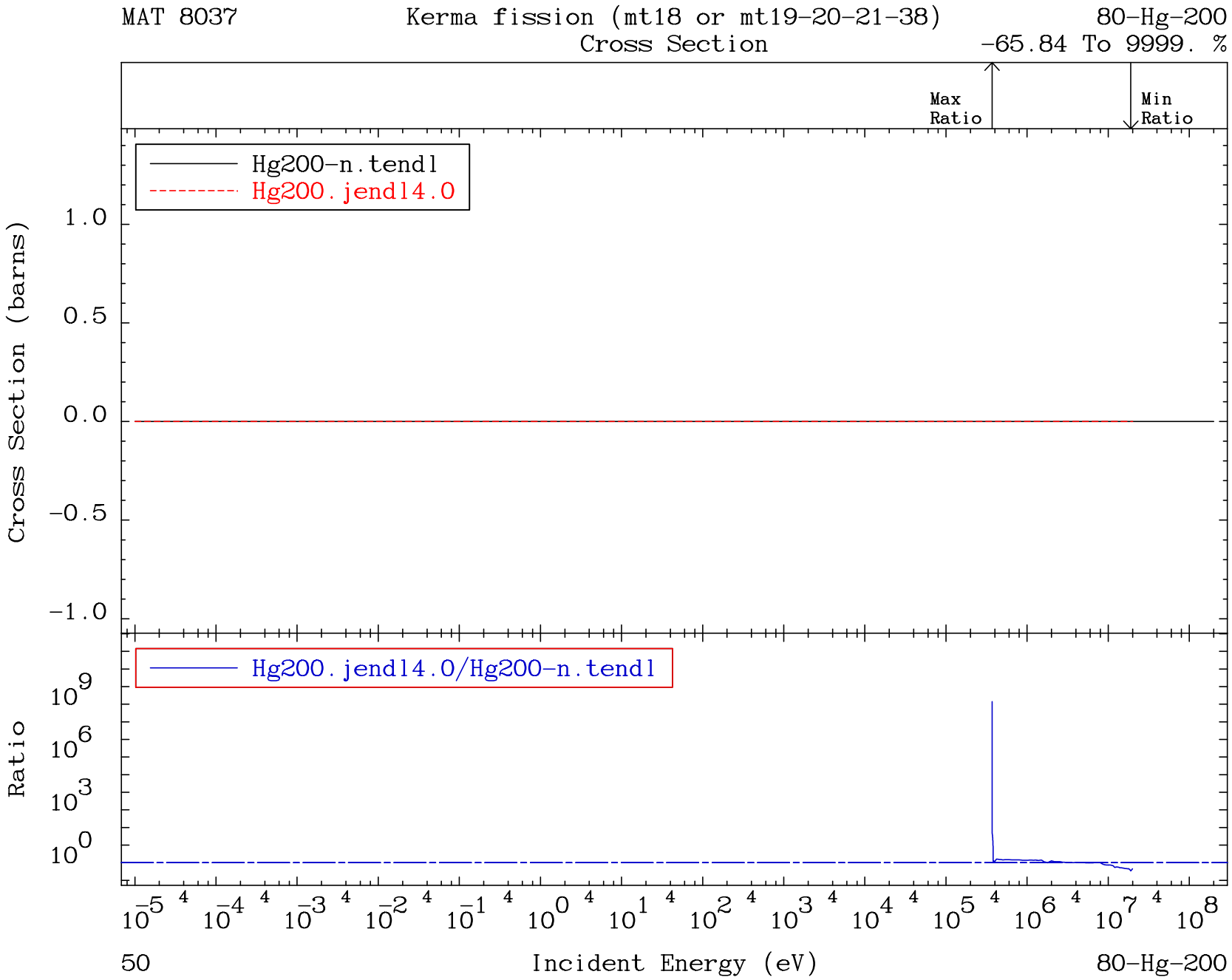

MAT 8037
He-4 Production
Cross Section
80-Hg-200
-99.52 To 88.15 %
Min Ratio
Max Ratio
Hg200-n.tendl
Hg200.jendl4.0 Threshold 420.00 keV
Cross Section (milli-barns)
200
150
100
50
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^0
10^-1
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
45
Incident Energy (eV)
80-Hg-200

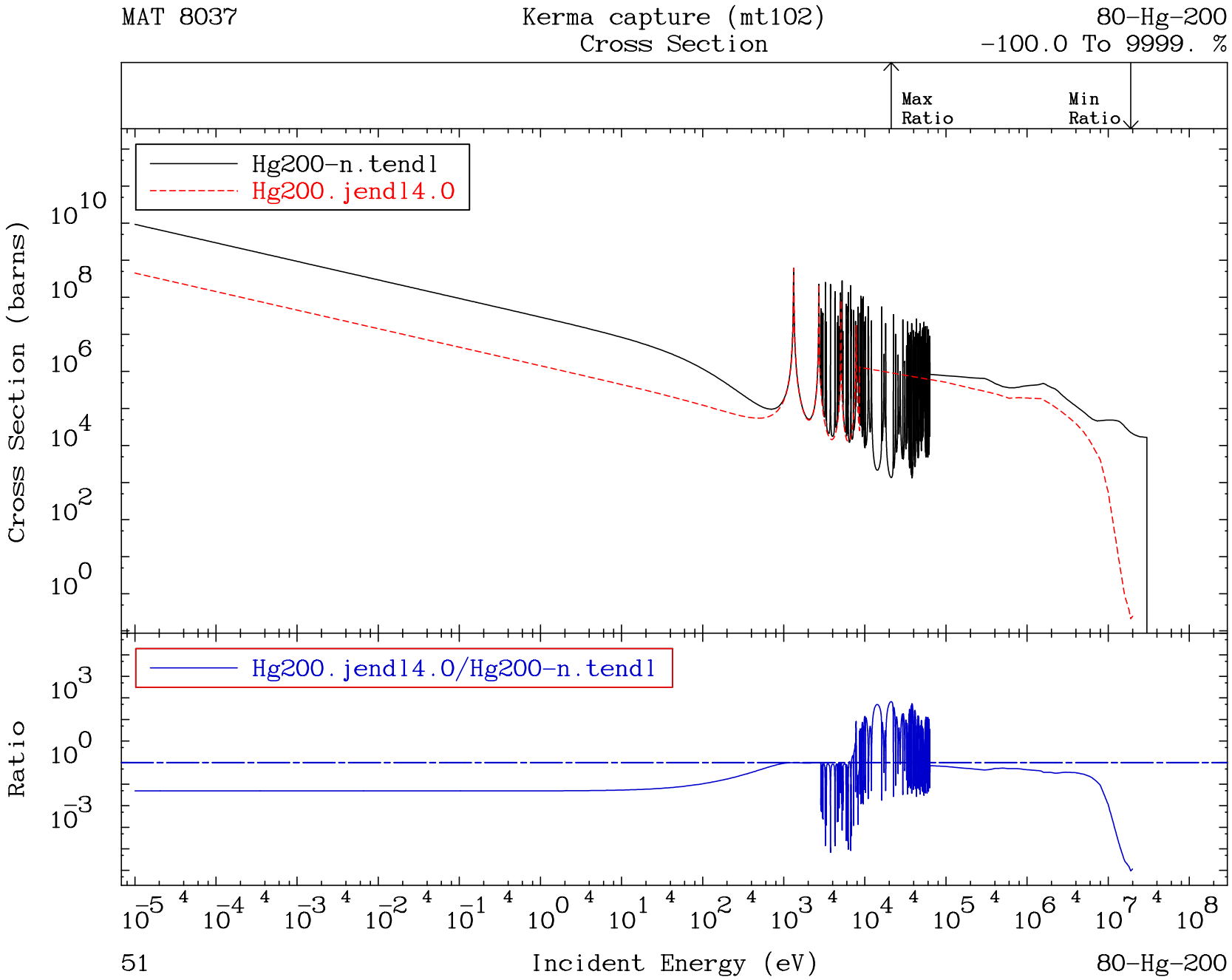

MAT 8037
Kerma total (eV-barns)
Cross Section
80-Hg-200
-99.99 To 9999. %
Min Ratio
Max Ratio
Hg200-n.tendl
Hg200.jendl4.0
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
46
80-Hg-200

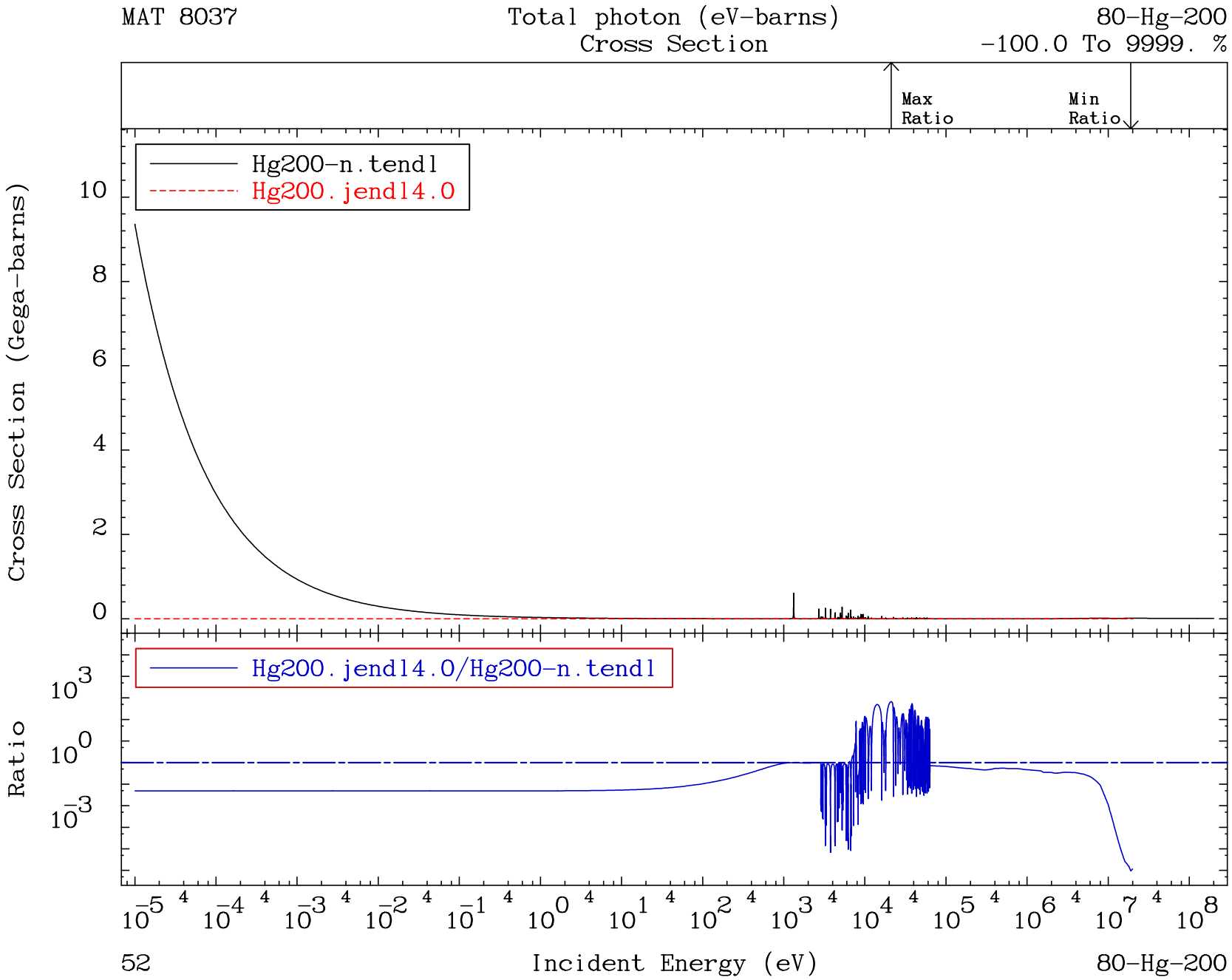

MAT 8037
Kerma elastic
Cross Section
80-Hg-200
-99.91 To 9999. %
Min Ratio
Max Ratio
Hg200-n.tendl
Hg200.jendl4.0
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
47
80-Hg-200

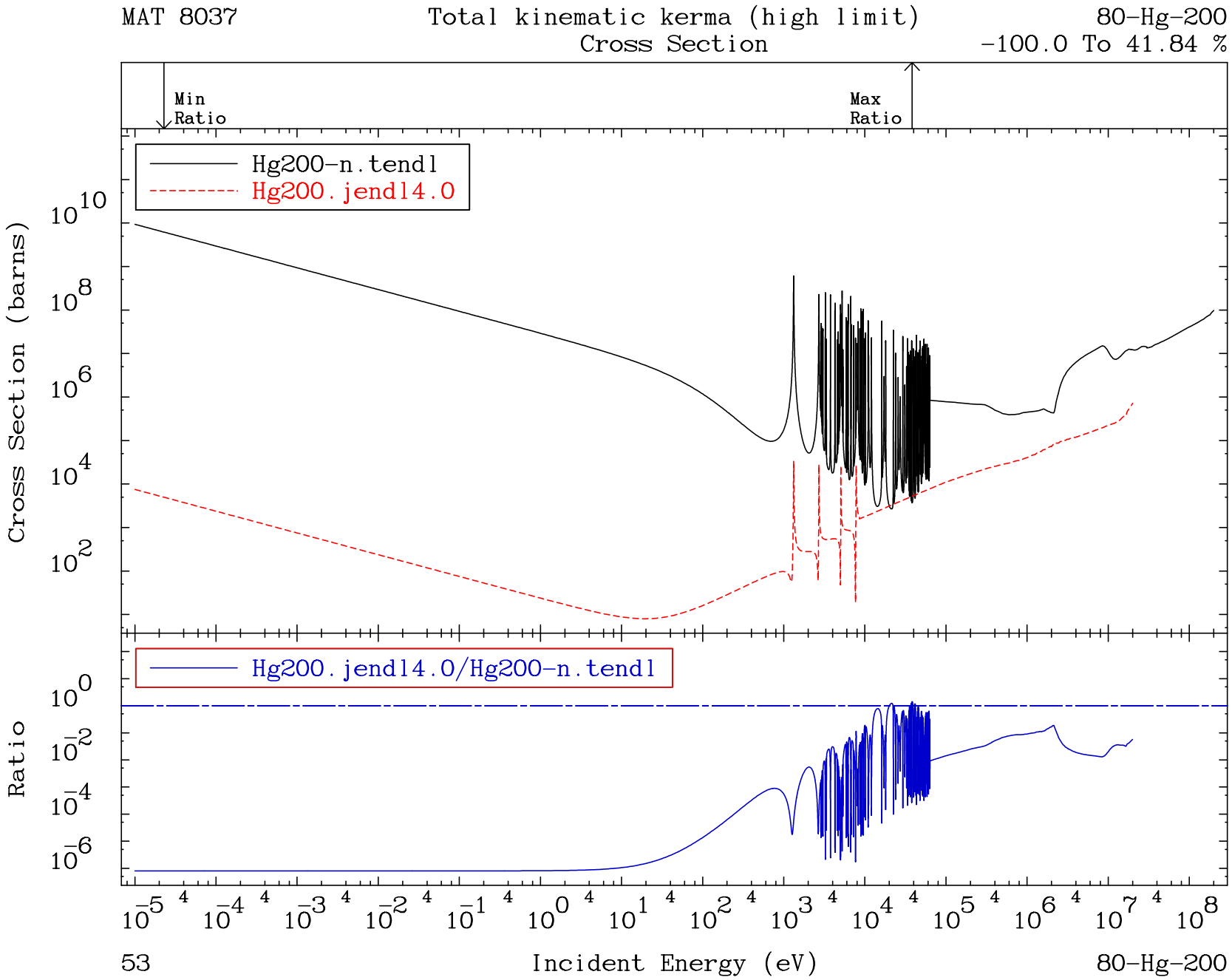

MAT 8037
Kerma non-elastic (all but mt2)
Cross Section
80-Hg-200
-99.99 To 9999. %
Min Ratio
Max Ratio
Hg200-n.tendl
Hg200.jendl4.0
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
48
80-Hg-200

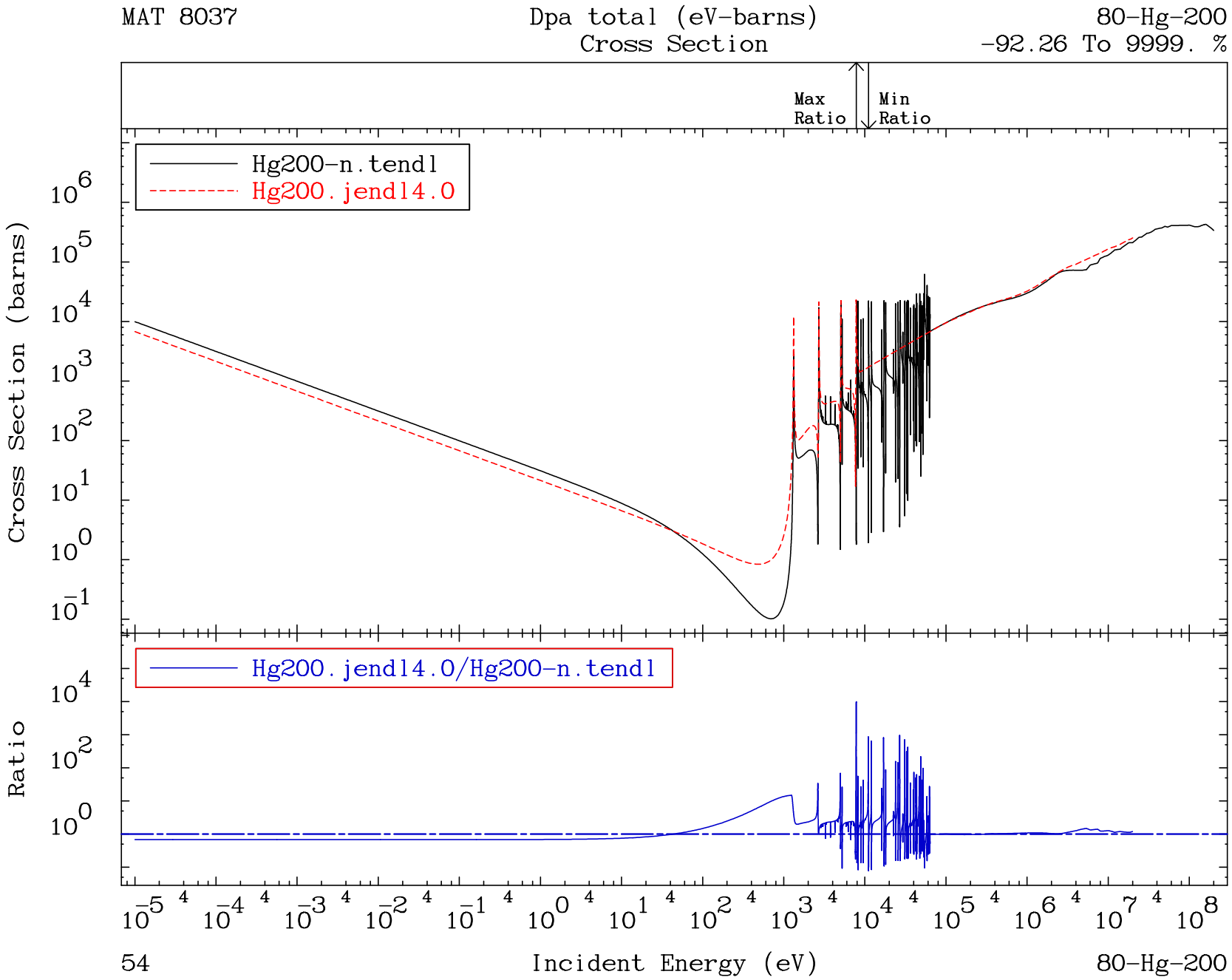

MAT 8037
Kerma inelastic (mt51-91)
Cross Section
80-Hg-200
-65.84 To 9999. %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 369.80 keV
Hg200.jendl4.0 Threshold 369.76 keV
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
49
80-Hg-200

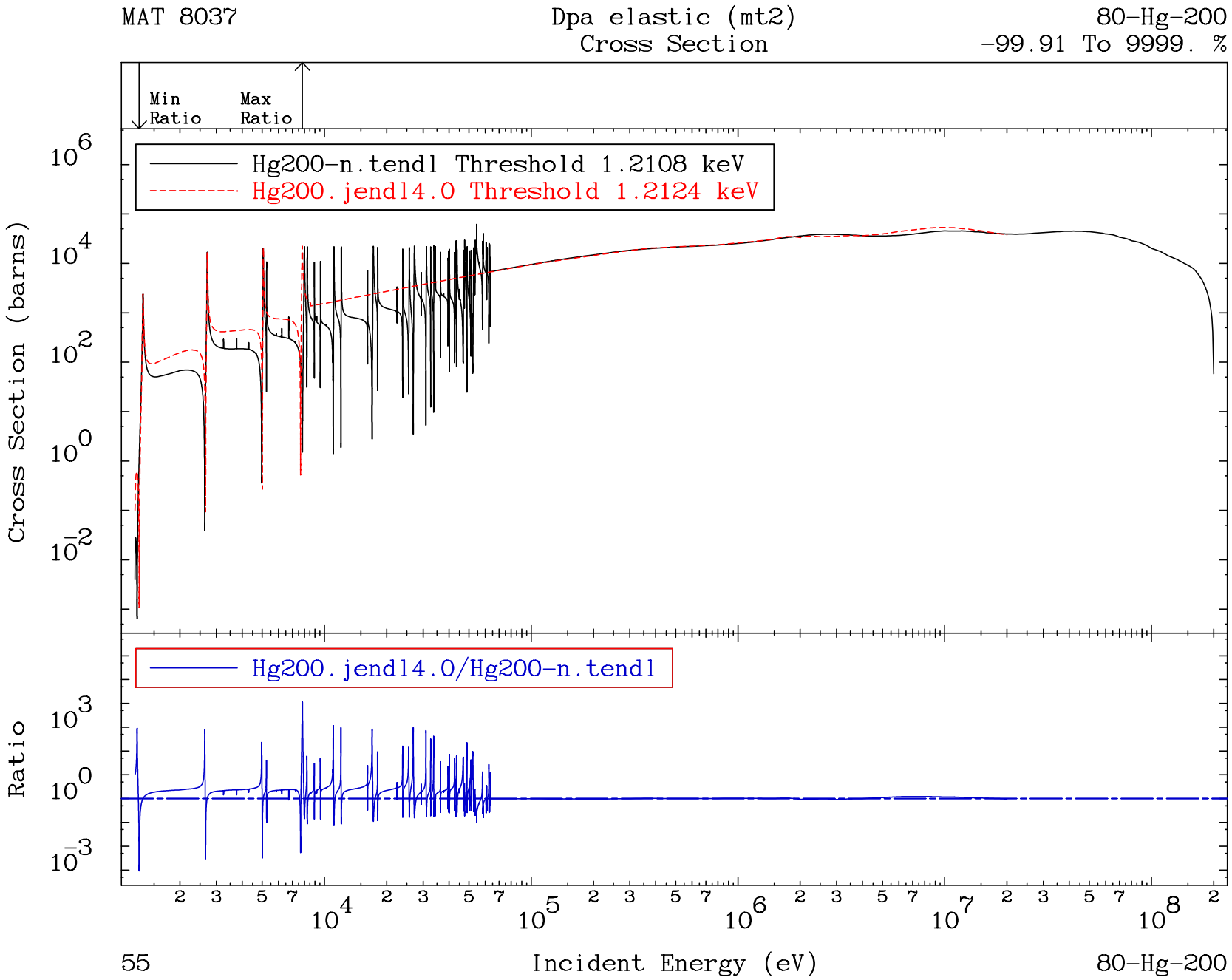

MAT 8037
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
80-Hg-200
-65.84 To 9999. %
Max Ratio
Min Ratio
Hg200-n.tendl
Hg200.jendl4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^9
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
50
Incident Energy (eV)
80-Hg-200

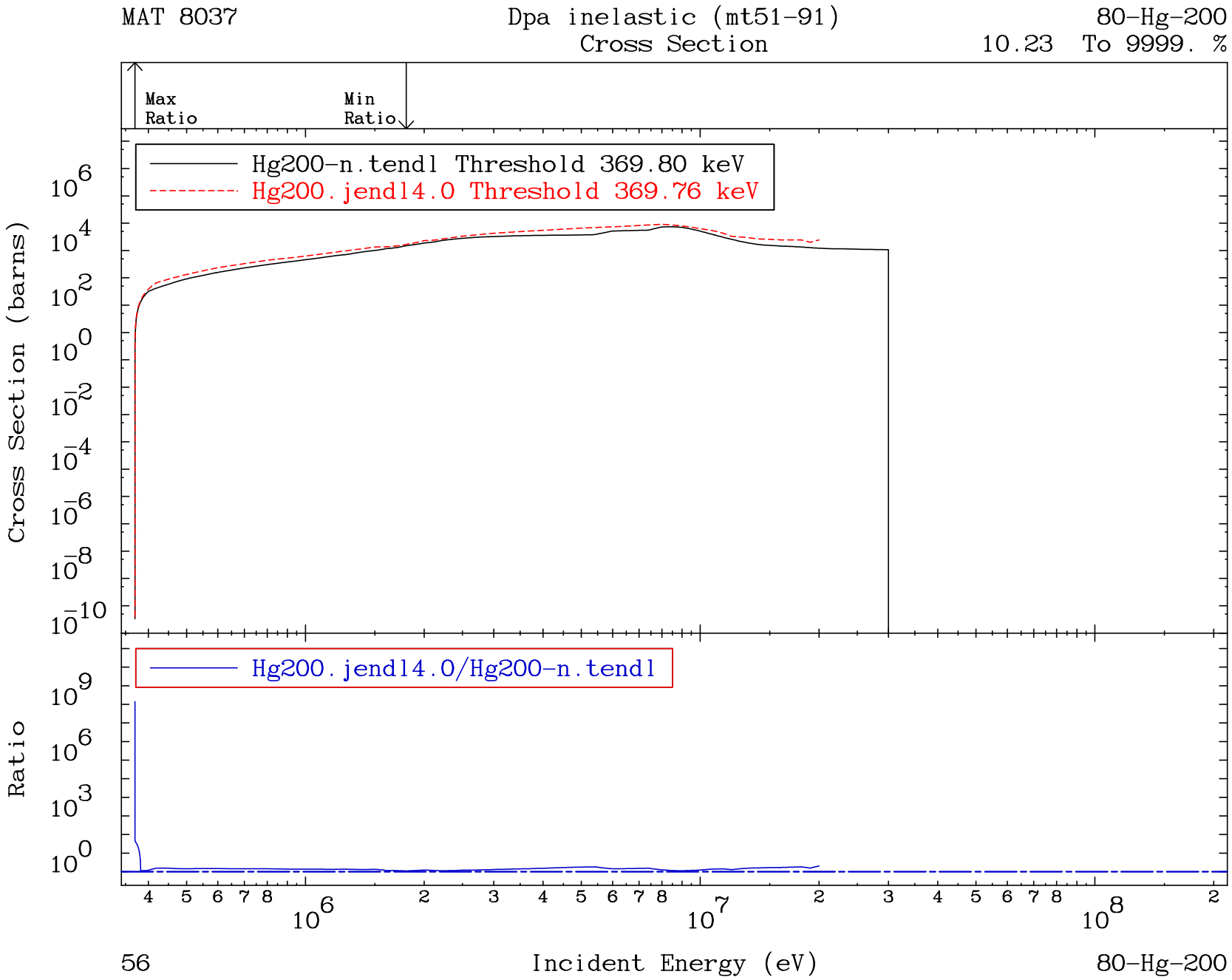

MAT 8037
Kerma capture (mt102)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
Hg200-n.tendl
Hg200.jendl4.0
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
51
80-Hg-200

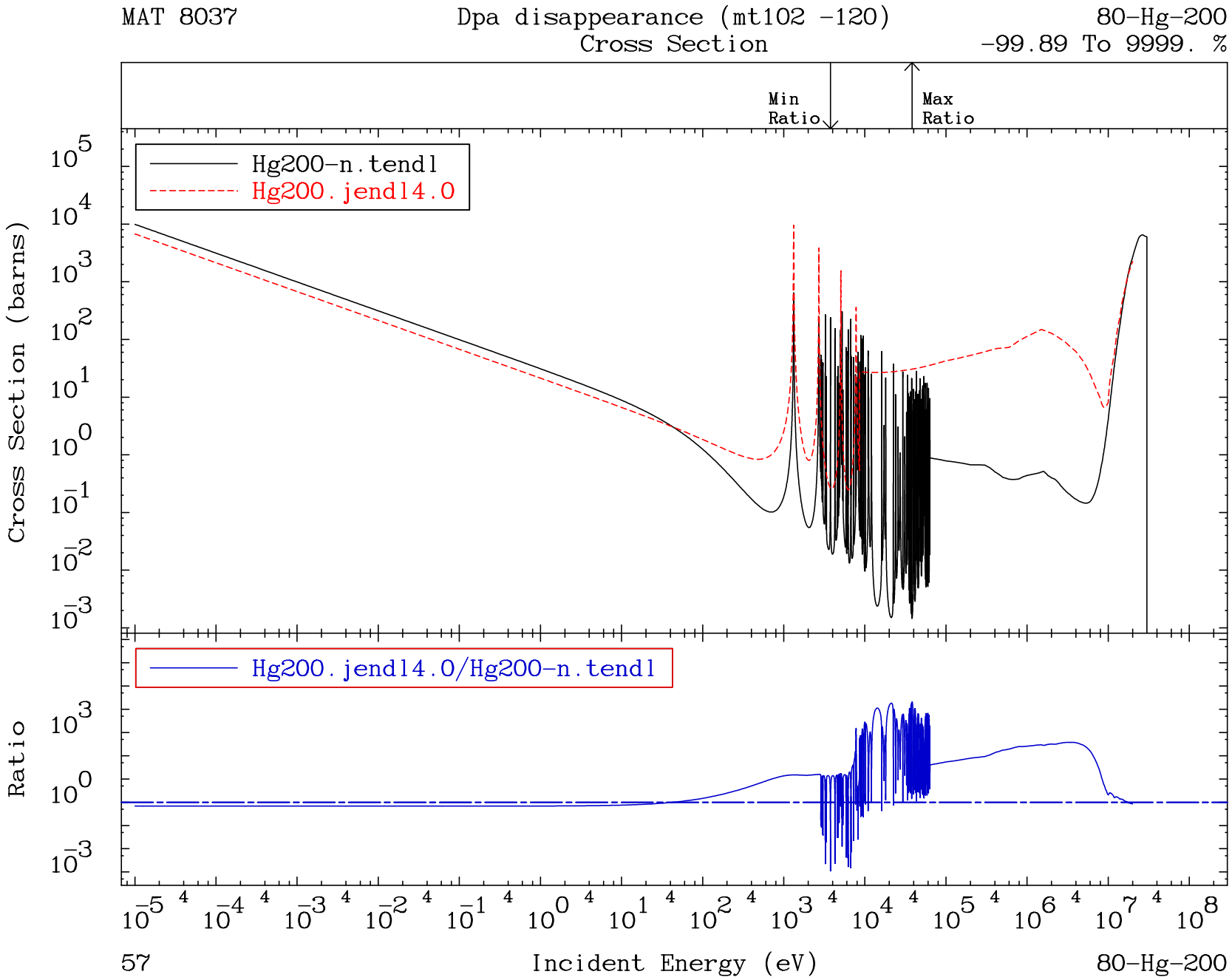

MAT 8037
Total photon (eV-barns)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
Hg200-n.tendl
Hg200.jendl4.0
Cross Section (Gega-barns)
10
8
6
4
2
0
Hg200.jendl4.0/Hg200-n.tendl
Ratio
10^3
10^0
10^-3
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
52
Incident Energy (eV)
80-Hg-200


MAT 8037
Total kinematic kerma (high limit)
Cross Section
80-Hg-200
-100.0 To 41.84 %
Min Ratio
Max Ratio
Hg200-n.tendl
Hg200.jendl4.0
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
53
80-Hg-200


MAT 8037
Dpa total (eV-barns)
Cross Section
80-Hg-200
-92.26 To 9999. %
Max Ratio
Min Ratio
Hg200-n.tendl
Hg200.jendl4.0
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
54
80-Hg-200


MAT 8037
Dpa elastic (mt2)
Cross Section
80-Hg-200
-99.91 To 9999. %
Min Ratio
Max Ratio
Hg200-n.tendl Threshold 1.2108 keV
Hg200.jendl4.0 Threshold 1.2124 keV
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
55
80-Hg-200


MAT 8037
Dpa inelastic (mt51-91)
Cross Section
80-Hg-200
10.23 To 9999. %
Max Ratio
Min Ratio
Hg200-n.tendl Threshold 369.80 keV
Hg200.jendl4.0 Threshold 369.76 keV
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
Incident Energy (eV)
56
80-Hg-200


MAT 8037
Dpa disappearance (mt102 -120)
Cross Section
80-Hg-200
-99.89 To 9999. %
Min Ratio
Max Ratio
Hg200-n.tendl
Hg200.jendl4.0
Cross Section (barns)
Hg200.jendl4.0/Hg200-n.tendl
Ratio
57
Incident Energy (eV)
80-Hg-200