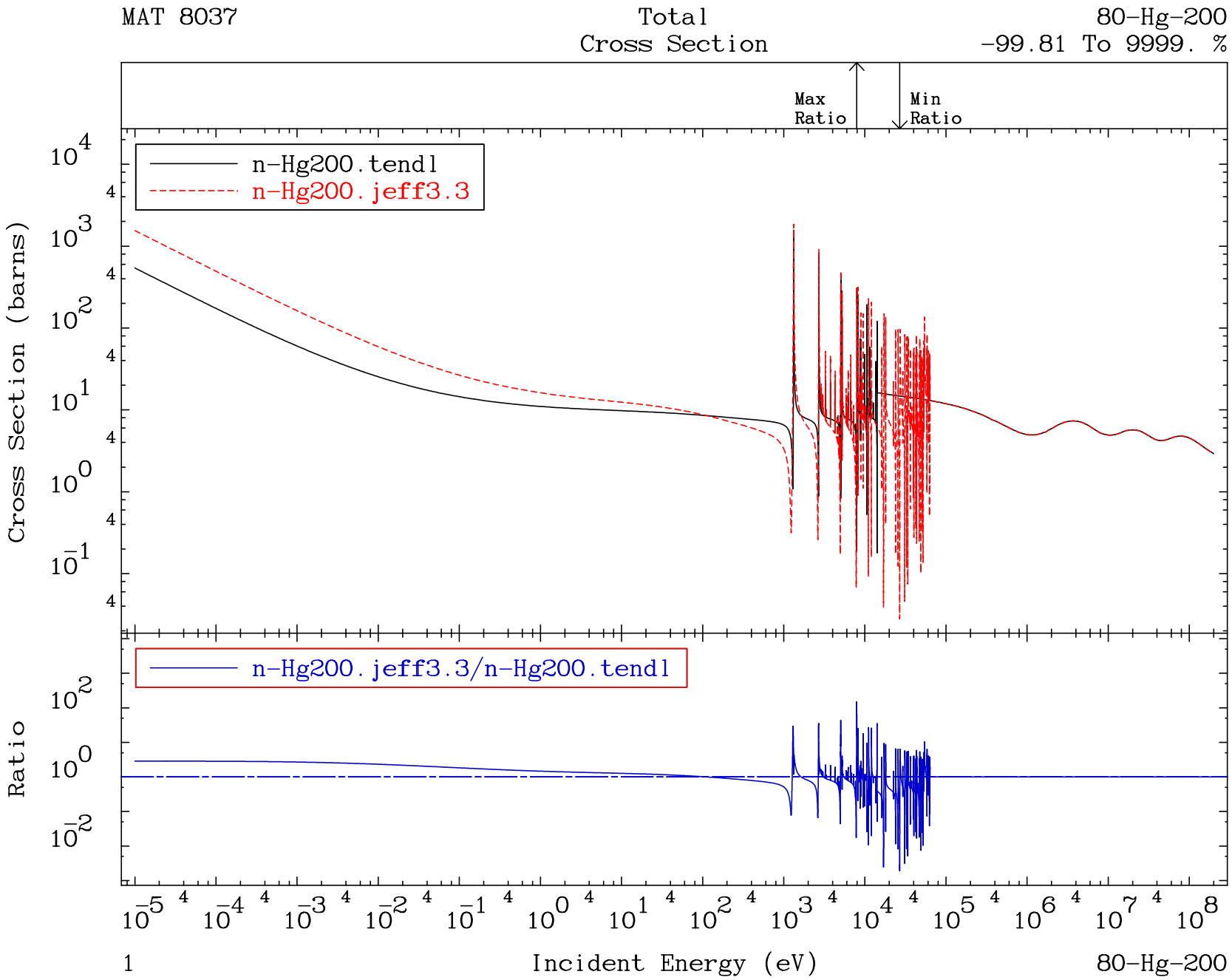
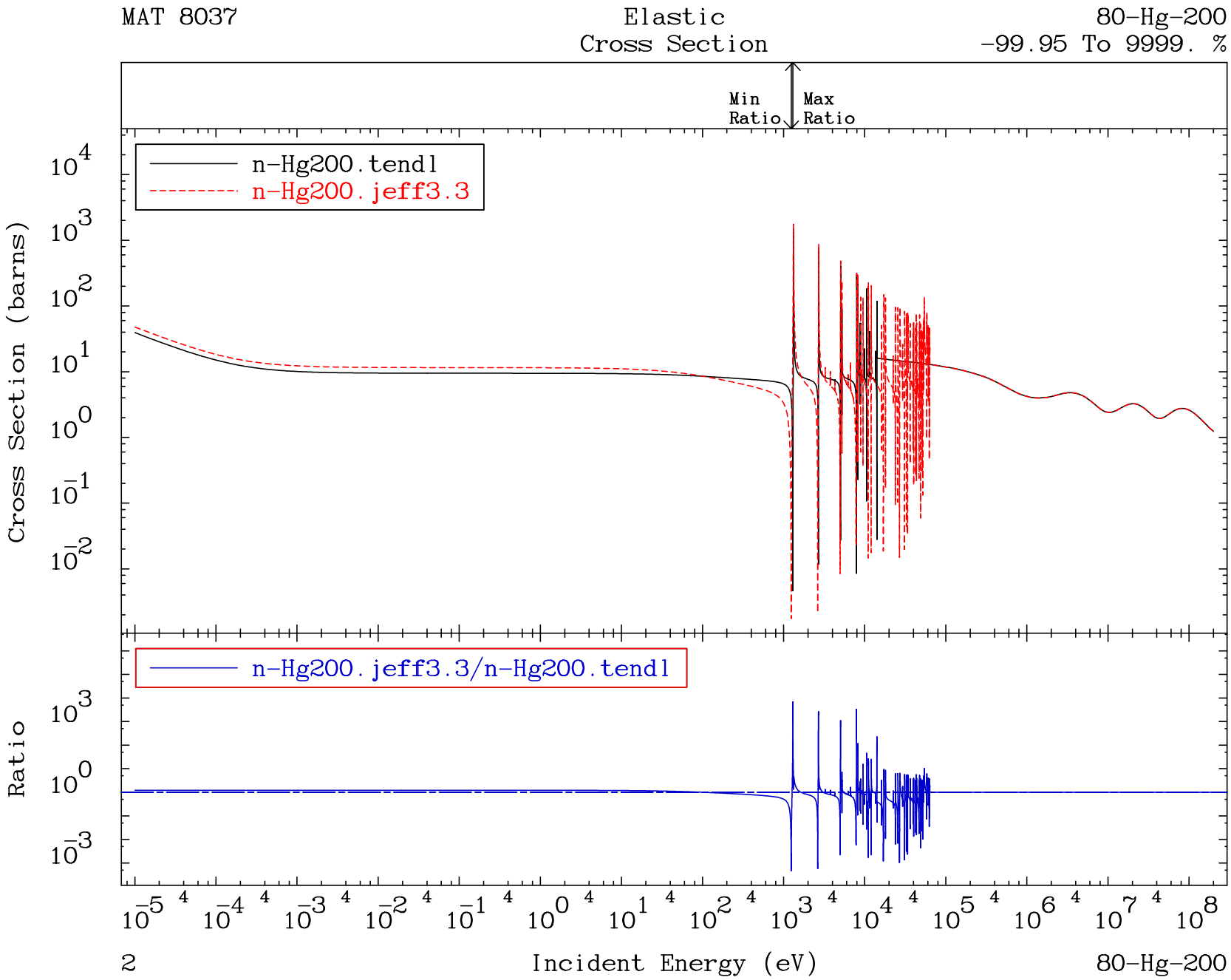
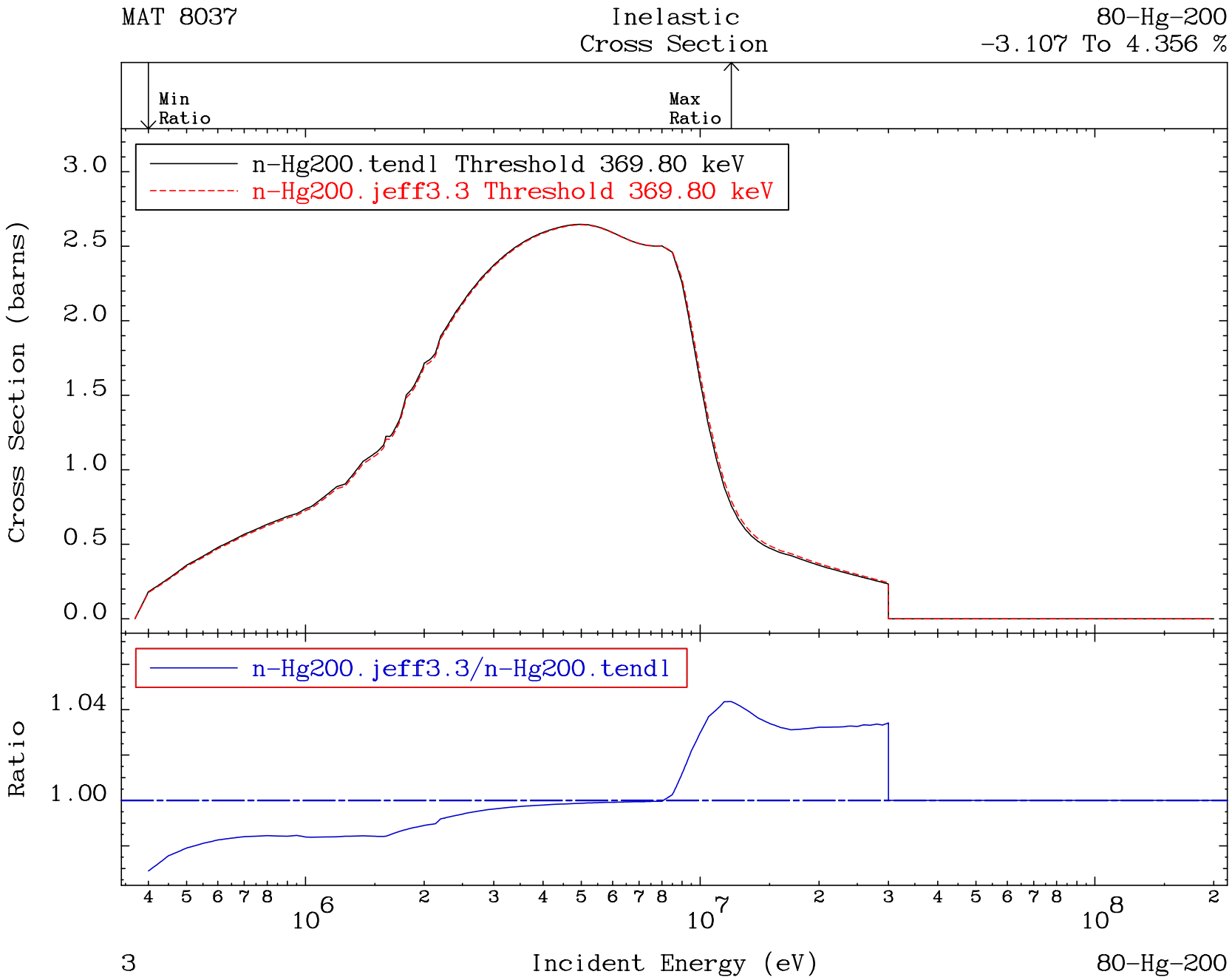
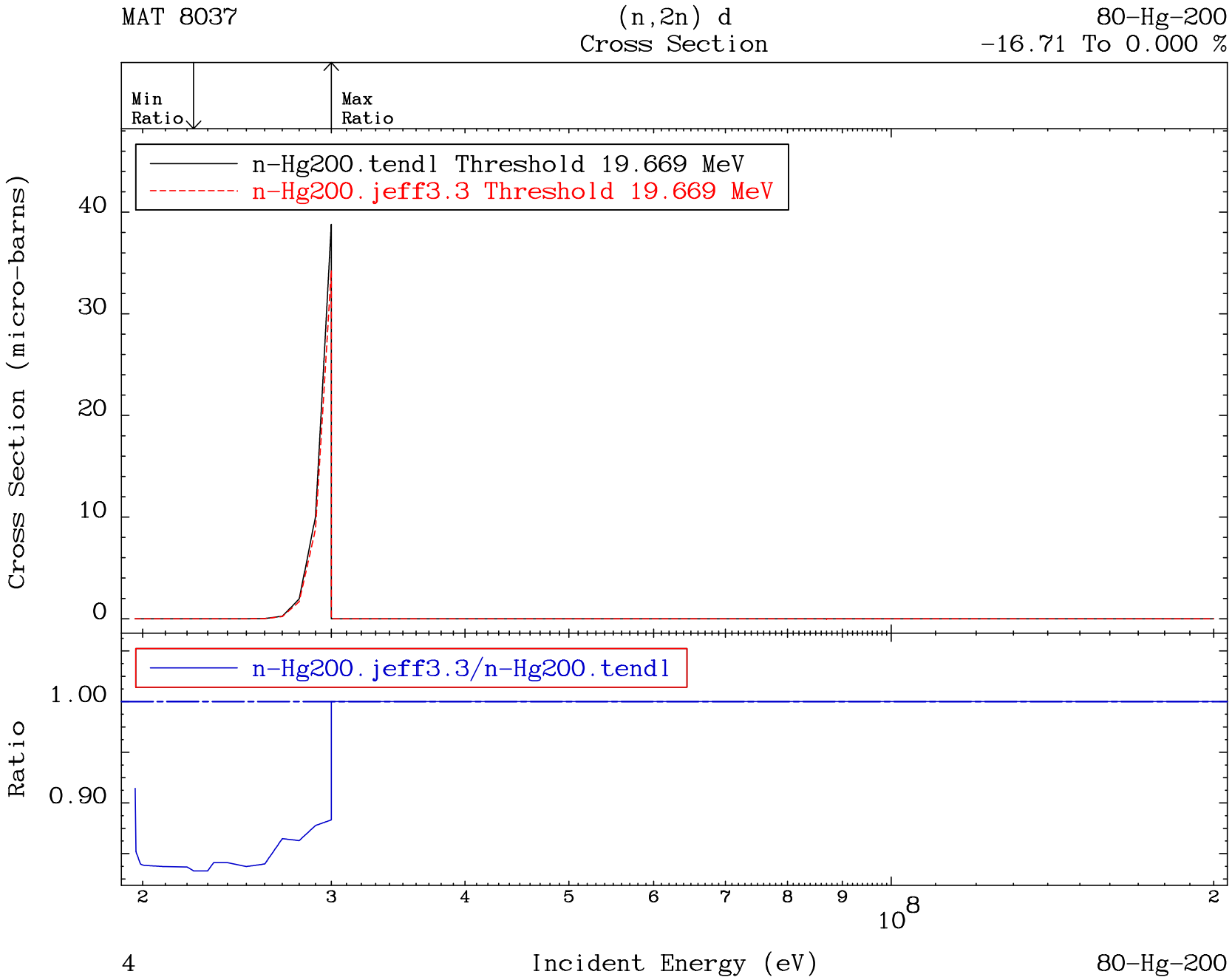
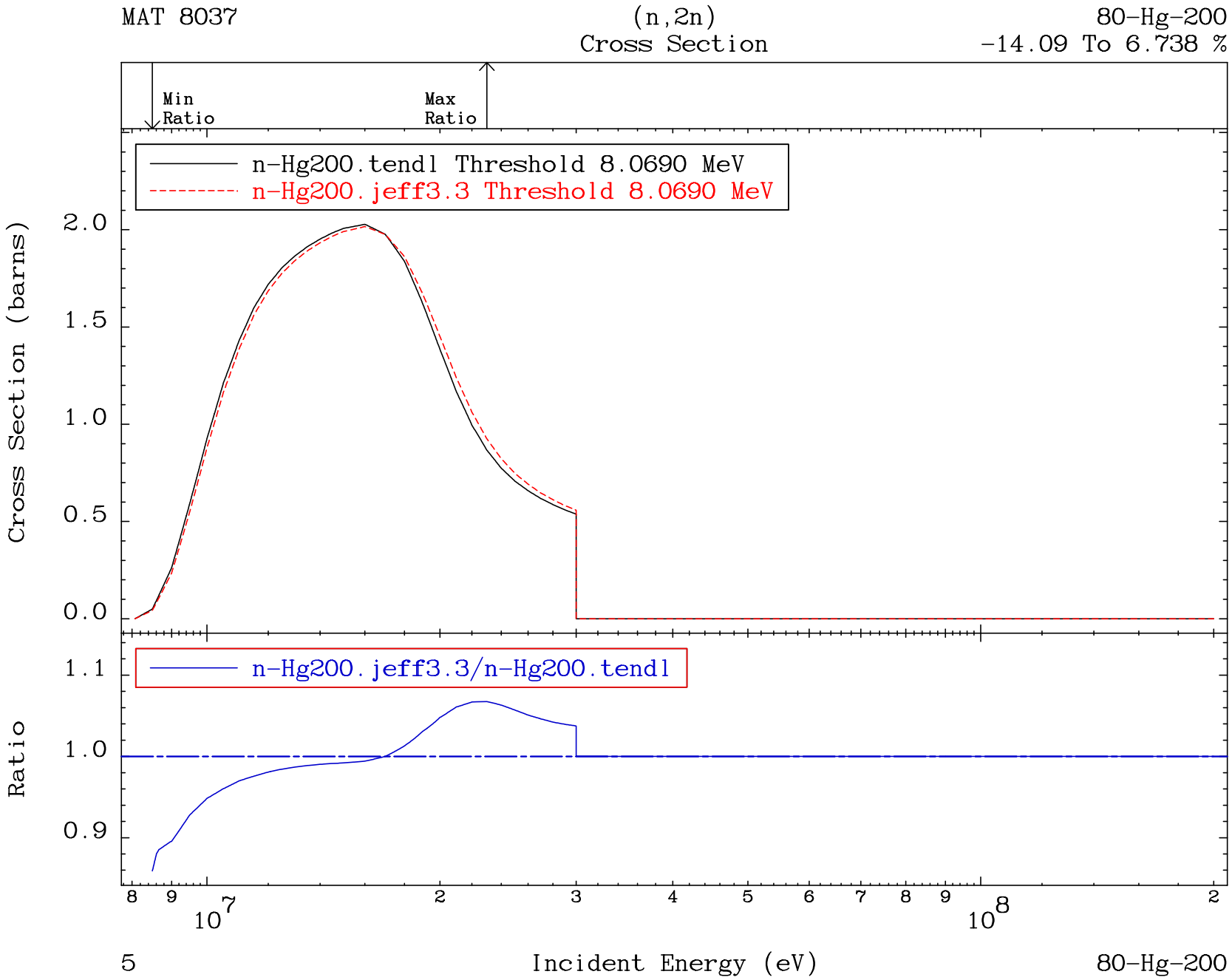
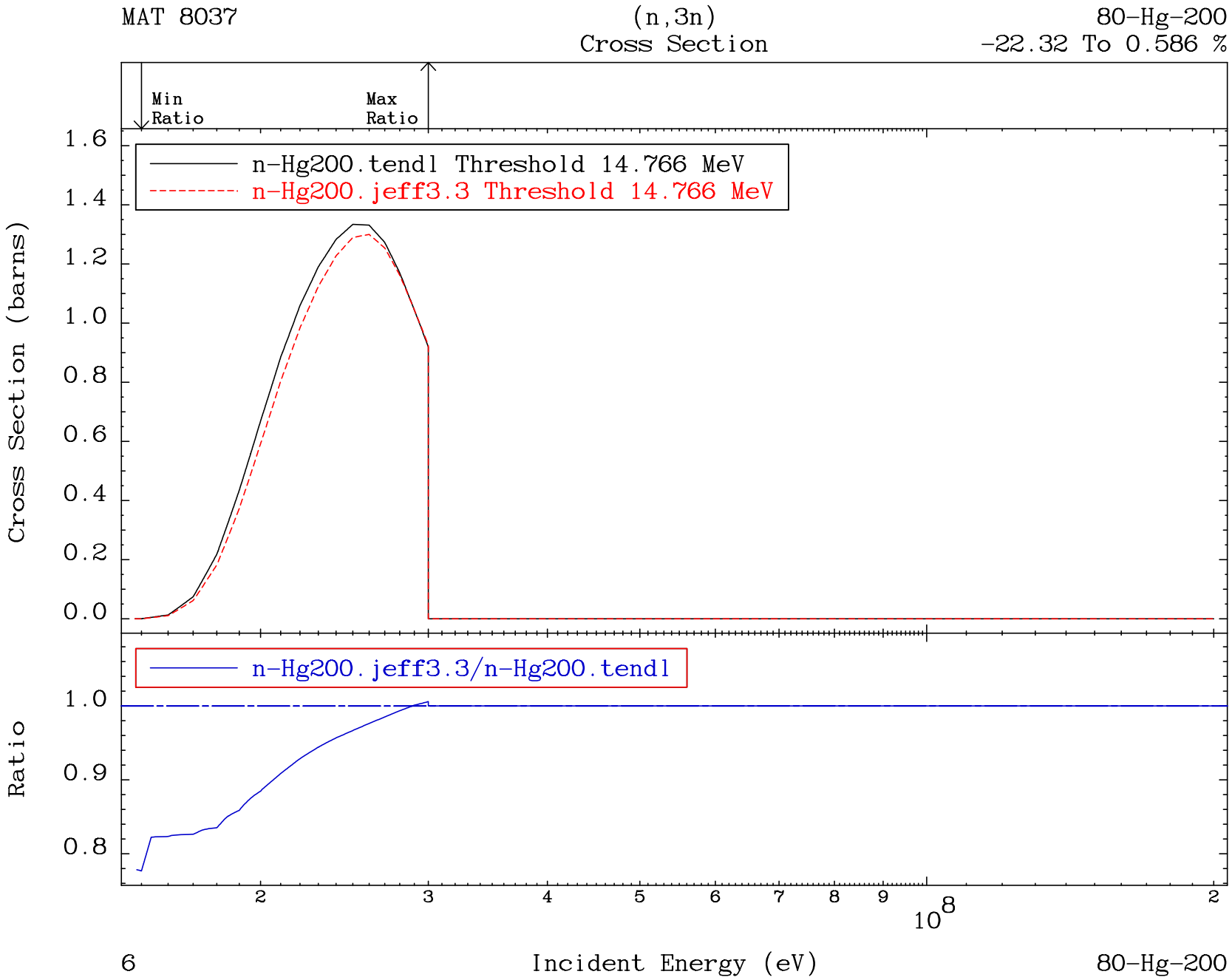

MAT 8037
Total
Cross Section
80-Hg-200
-99.81 To 9999. %
Max
Ratio
Min
Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
Incident Energy (eV)
1
80-Hg-200

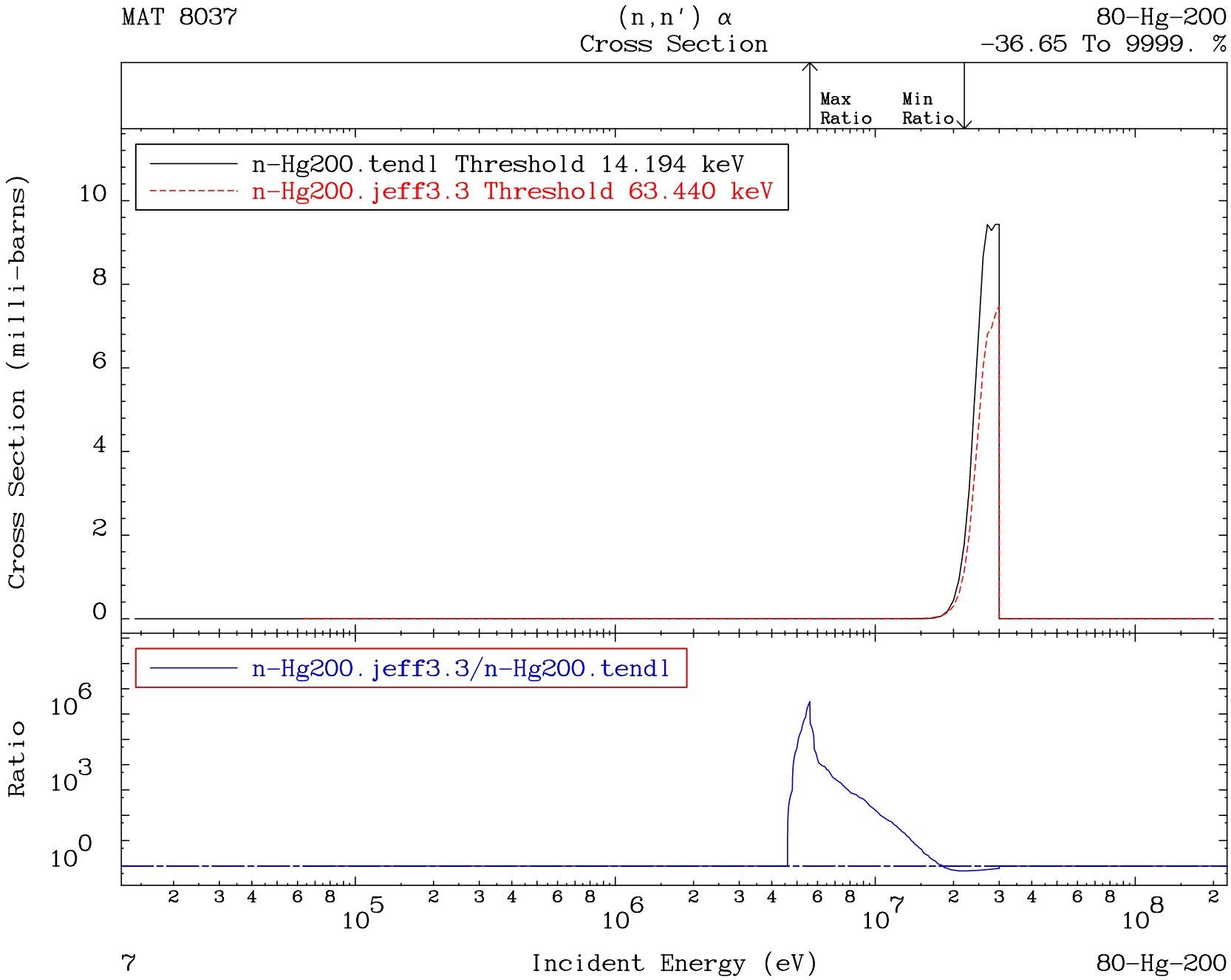

MAT 8037
Elastic
Cross Section
80-Hg-200
-99.95 To 9999. %
Min Ratio
Max Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
Incident Energy (eV)
2
80-Hg-200

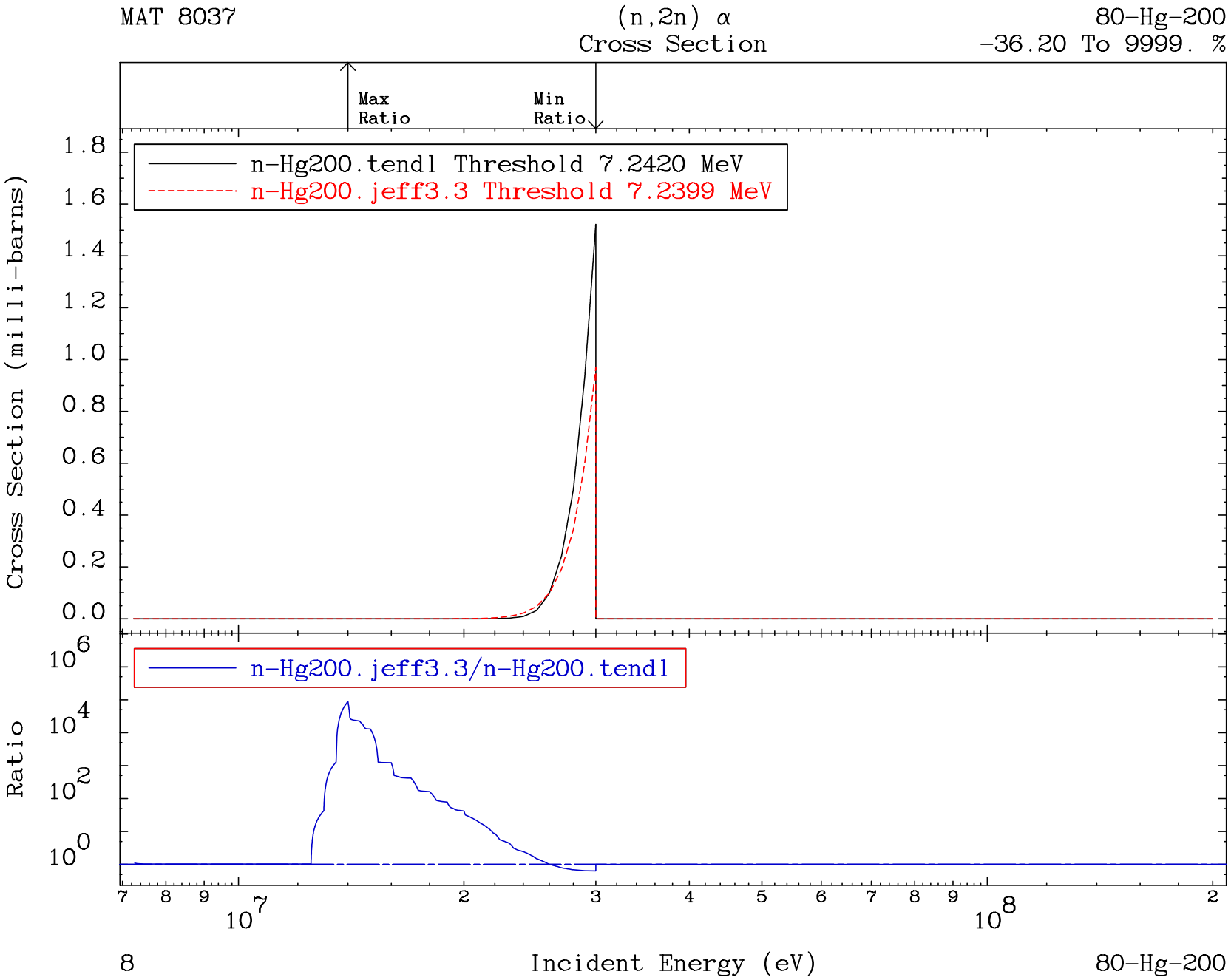

MAT 8037
Inelastic
Cross Section
80-Hg-200
-3.107 To 4.356 %
Min
Ratio
Max
Ratio
n-Hg200.tendl Threshold 369.80 keV
n-Hg200.jeff3.3 Threshold 369.80 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.04
1.00
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
80-Hg-200

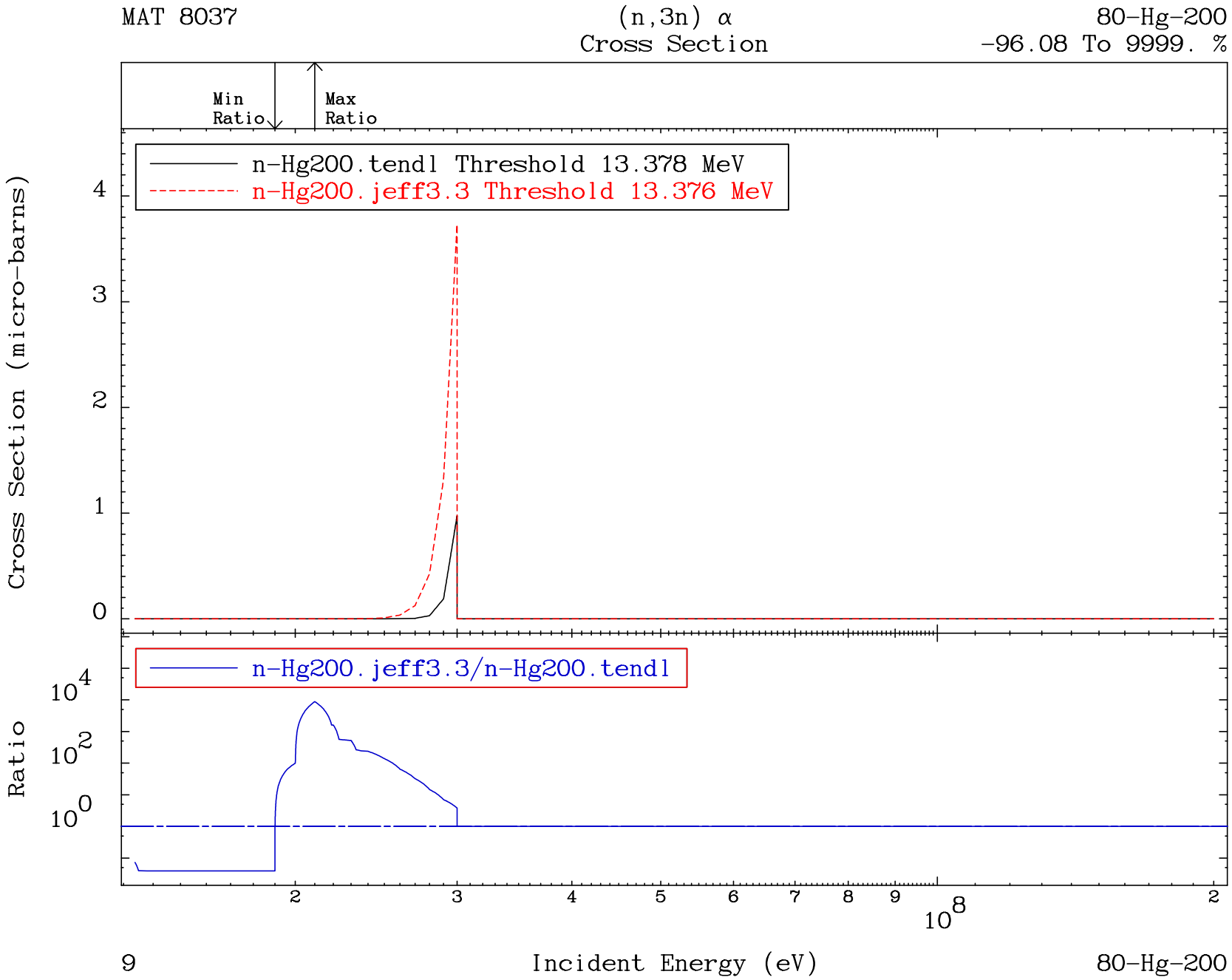

MAT 8037
(n,2n) d
Cross Section
80-Hg-200
-16.71 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 19.669 MeV
n-Hg200.jeff3.3 Threshold 19.669 MeV
Cross Section (micro-barns)
40
30
20
10
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.90
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
80-Hg-200

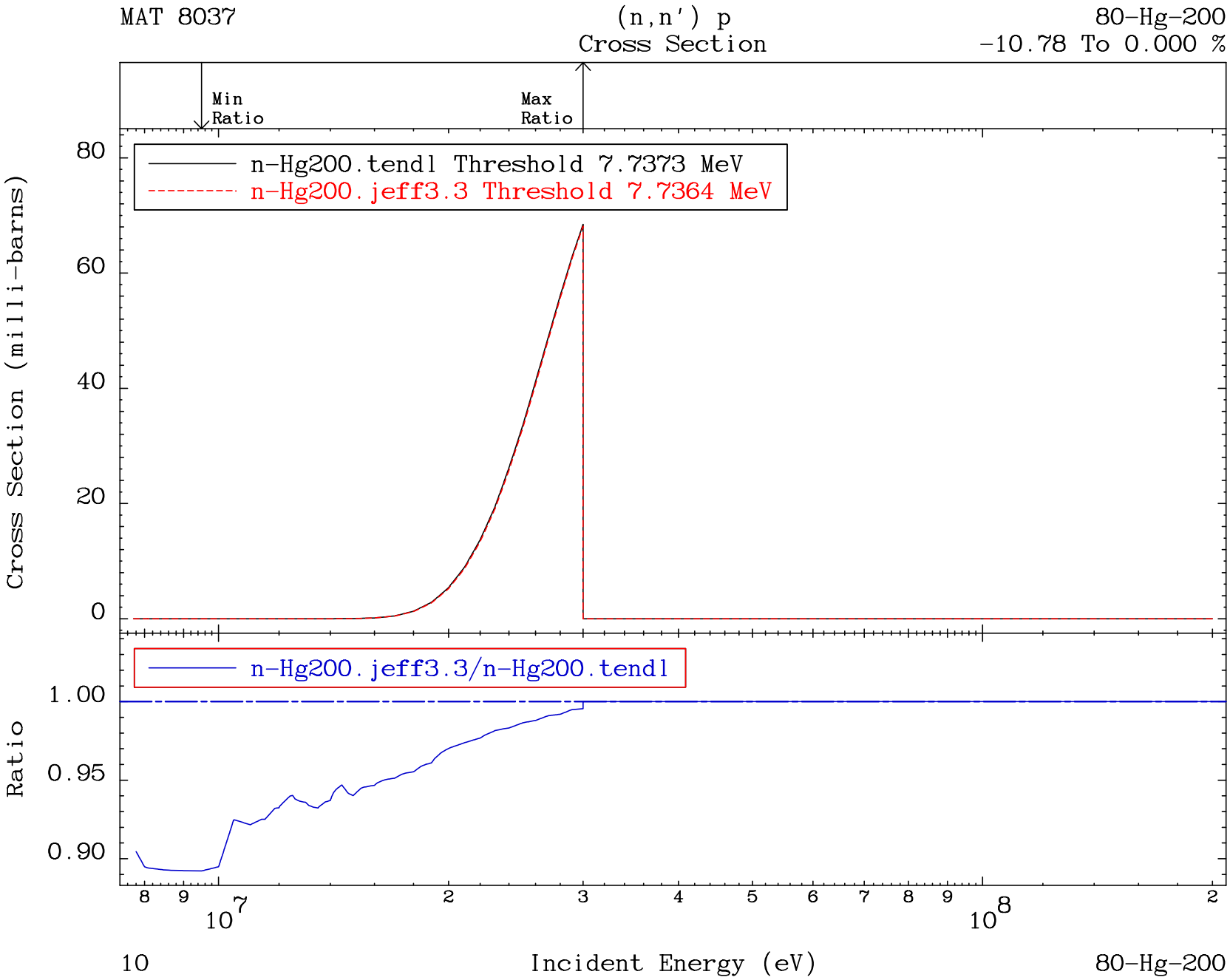

MAT 8037
(n,2n)
Cross Section
80-Hg-200
-14.09 To 6.738 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 8.0690 MeV
n-Hg200.jeff3.3 Threshold 8.0690 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.1
1.0
0.9
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
80-Hg-200

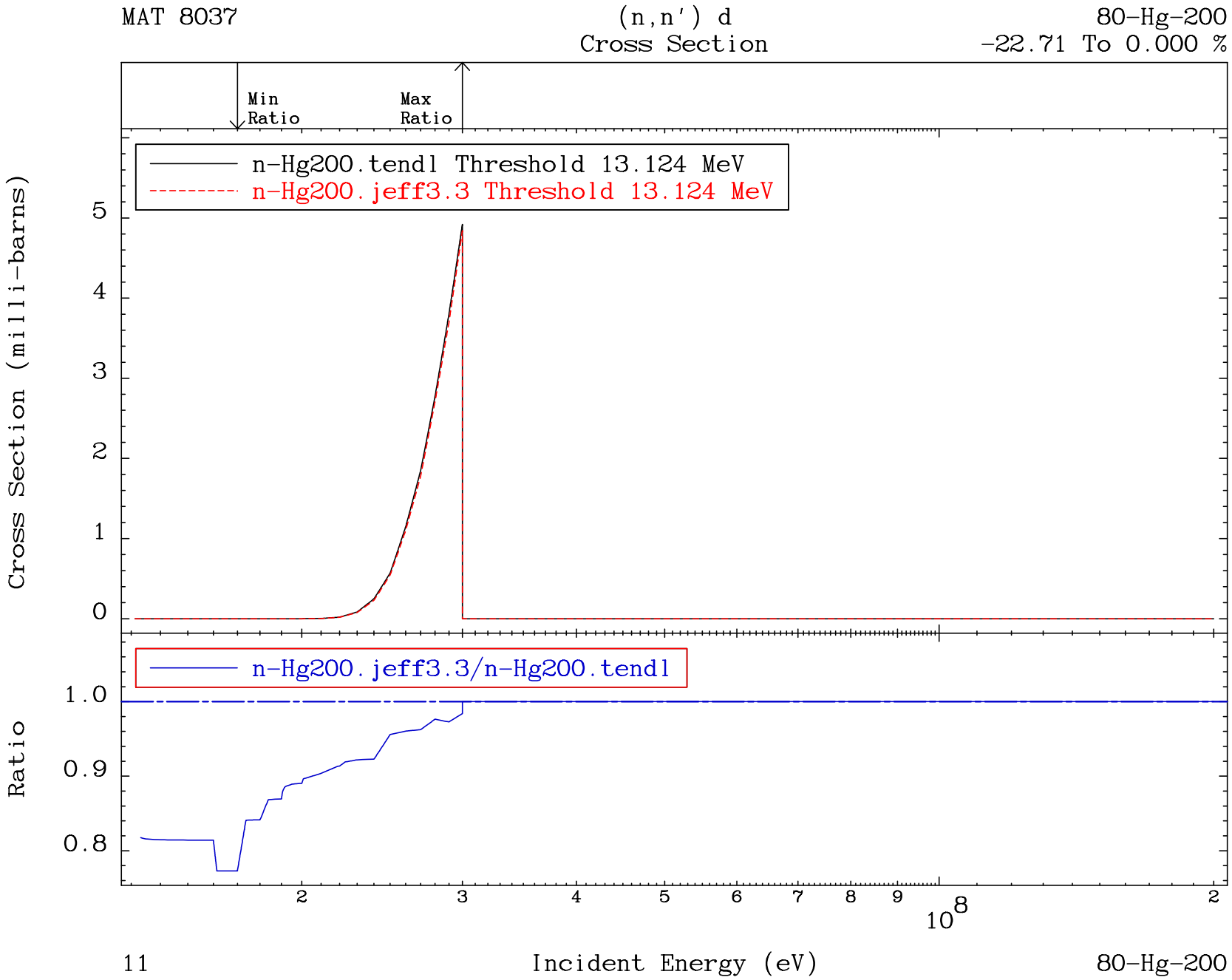

MAT 8037
(n,3n)
Cross Section
80-Hg-200
-22.32 To 0.586 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 14.766 MeV
n-Hg200.jeff3.3 Threshold 14.766 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
80-Hg-200

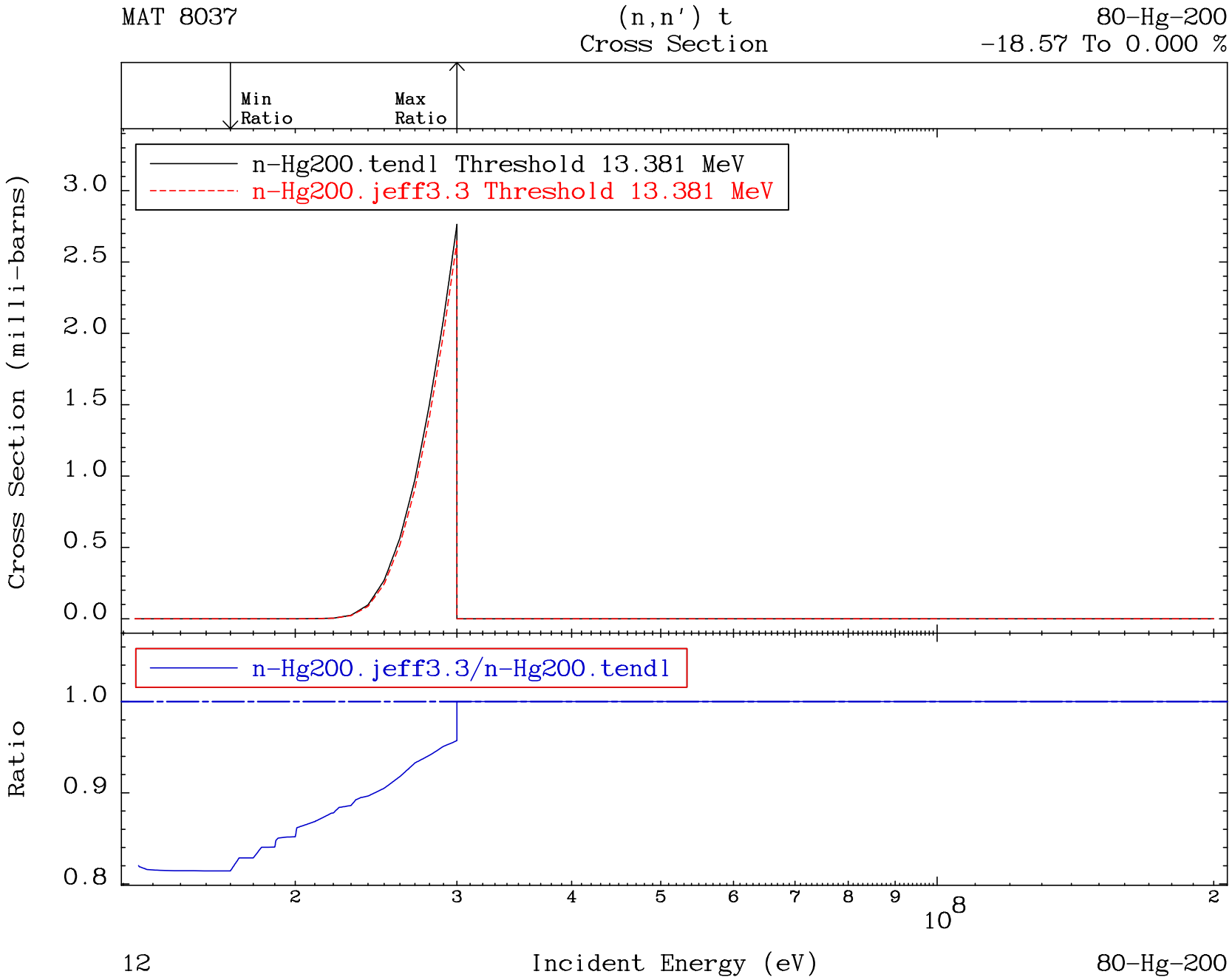

MAT 8037
(n,n') α
Cross Section
80-Hg-200
-36.65 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 14.194 keV
n-Hg200.jeff3.3 Threshold 63.440 keV
Cross Section (milli-barns)
0
2
4
6
8
10
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
10^0
10^3
10^6
2 3 4 6 8 10^5 2 3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
7
Incident Energy (eV)
80-Hg-200

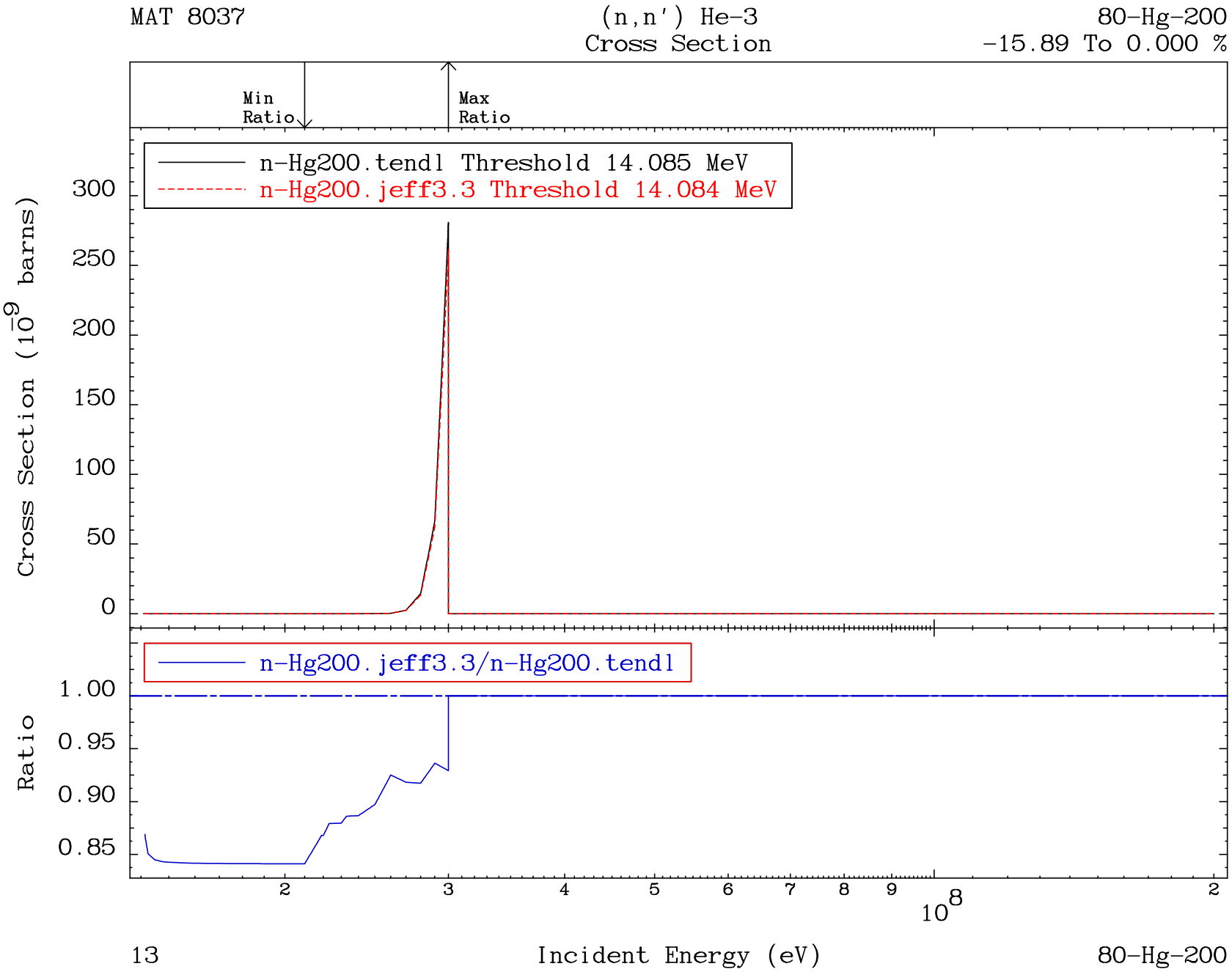

MAT 8037
(n,2n) α
Cross Section
80-Hg-200
-36.20 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 7.2420 MeV
n-Hg200.jeff3.3 Threshold 7.2399 MeV
Cross Section (milli-barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
10^6
10^4
10^2
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
80-Hg-200

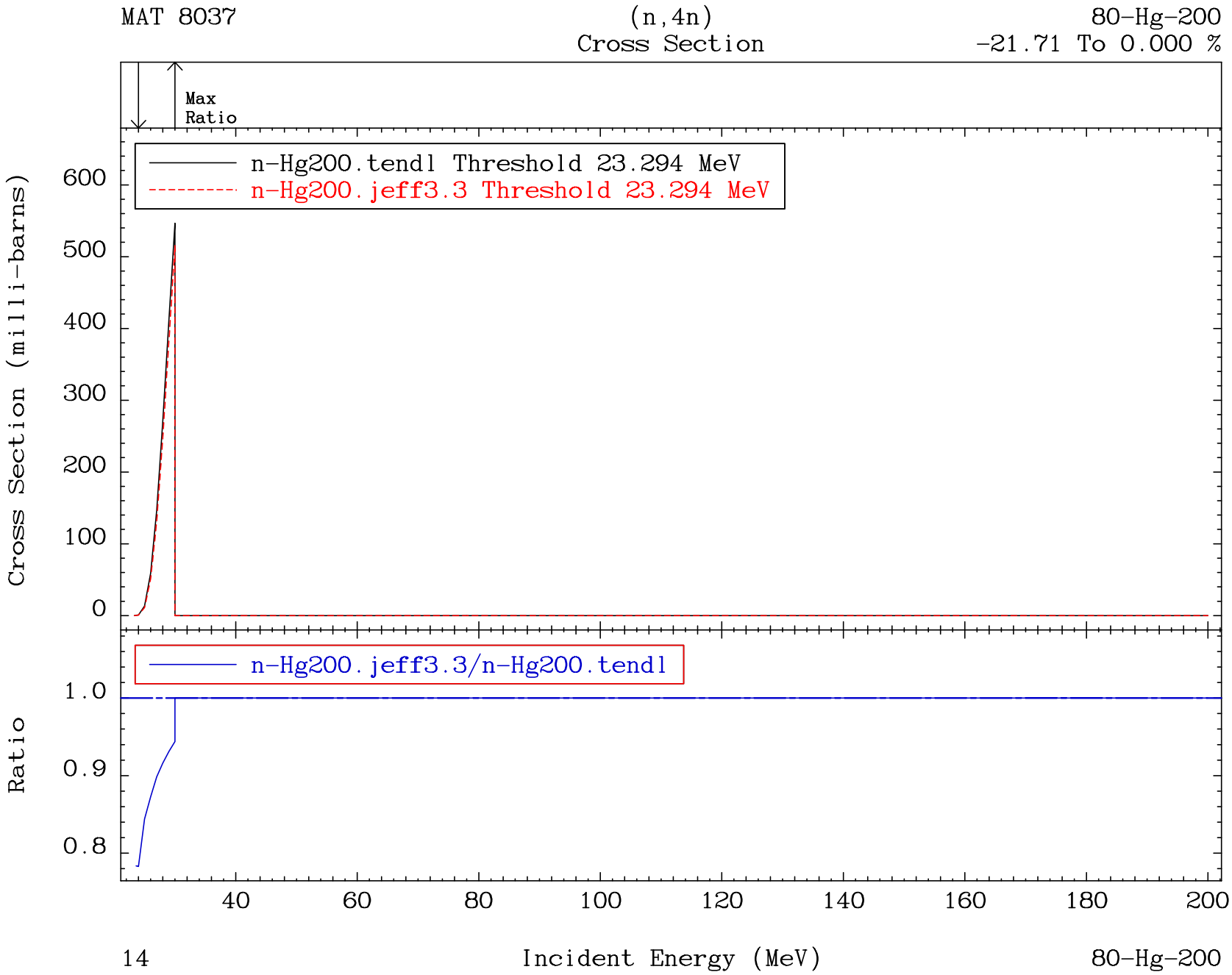

MAT 8037
(n,3n) α
Cross Section
80-Hg-200
-96.08 To 9999. %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 13.378 MeV
n-Hg200.jeff3.3 Threshold 13.376 MeV
Cross Section (micro-barns)
0
1
2
3
4
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
80-Hg-200

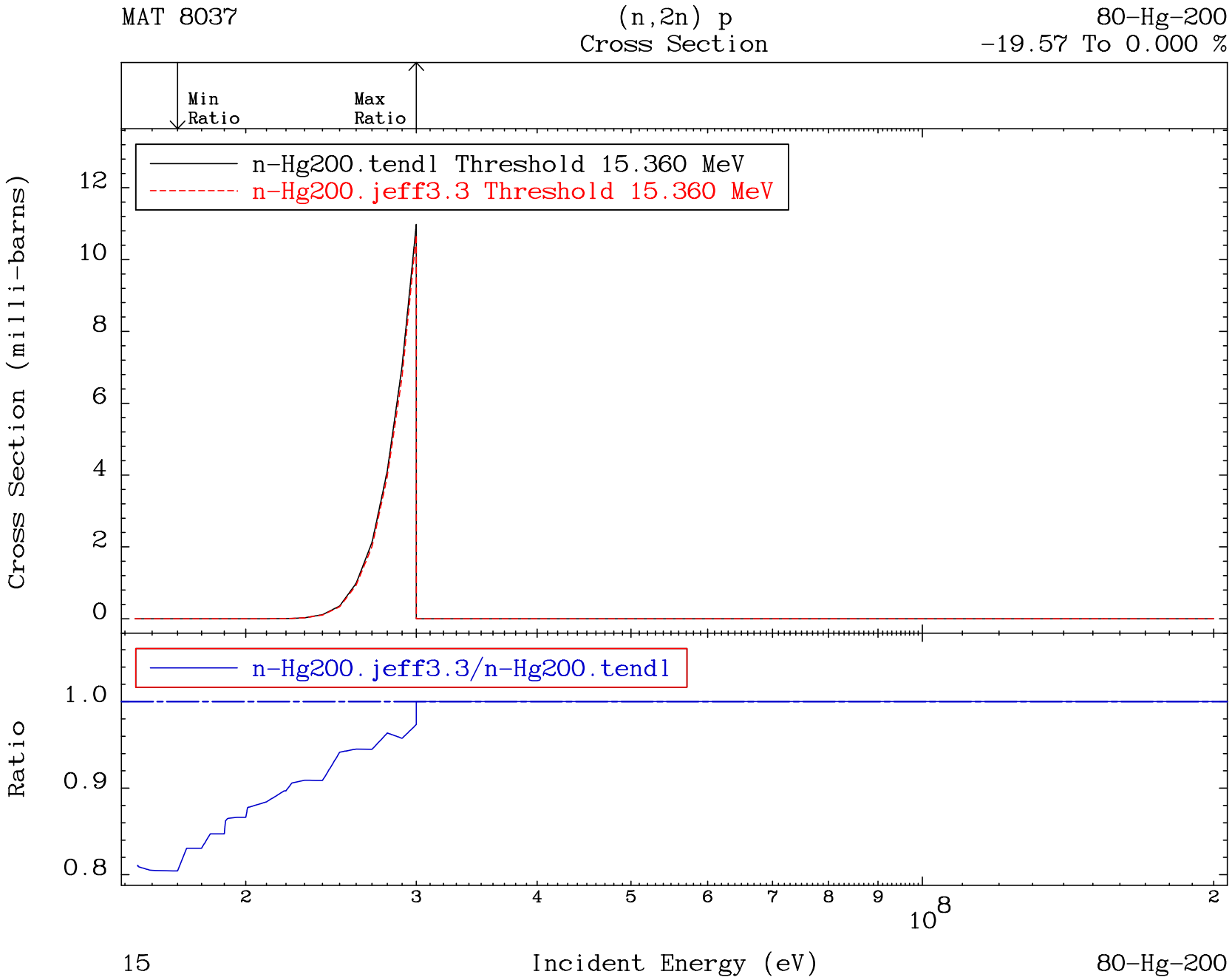

MAT 8037
(n,n') p
Cross Section
80-Hg-200
-10.78 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 7.7373 MeV
n-Hg200.jeff3.3 Threshold 7.7364 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.95
0.90
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
80-Hg-200

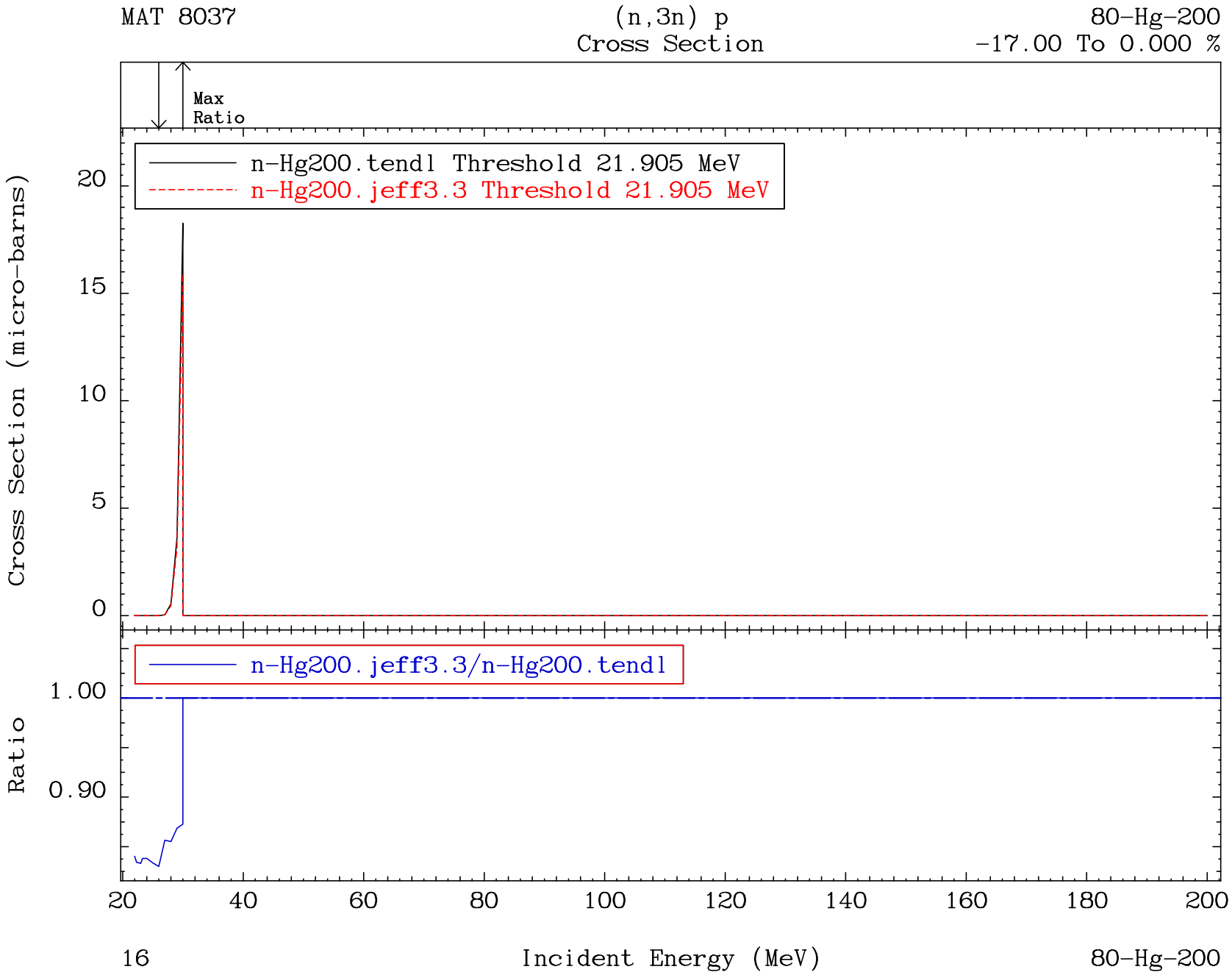

MAT 8037
(n,n') d
Cross Section
80-Hg-200
-22.71 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 13.124 MeV
n-Hg200.jeff3.3 Threshold 13.124 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
0.8
0.9
1.0
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
80-Hg-200

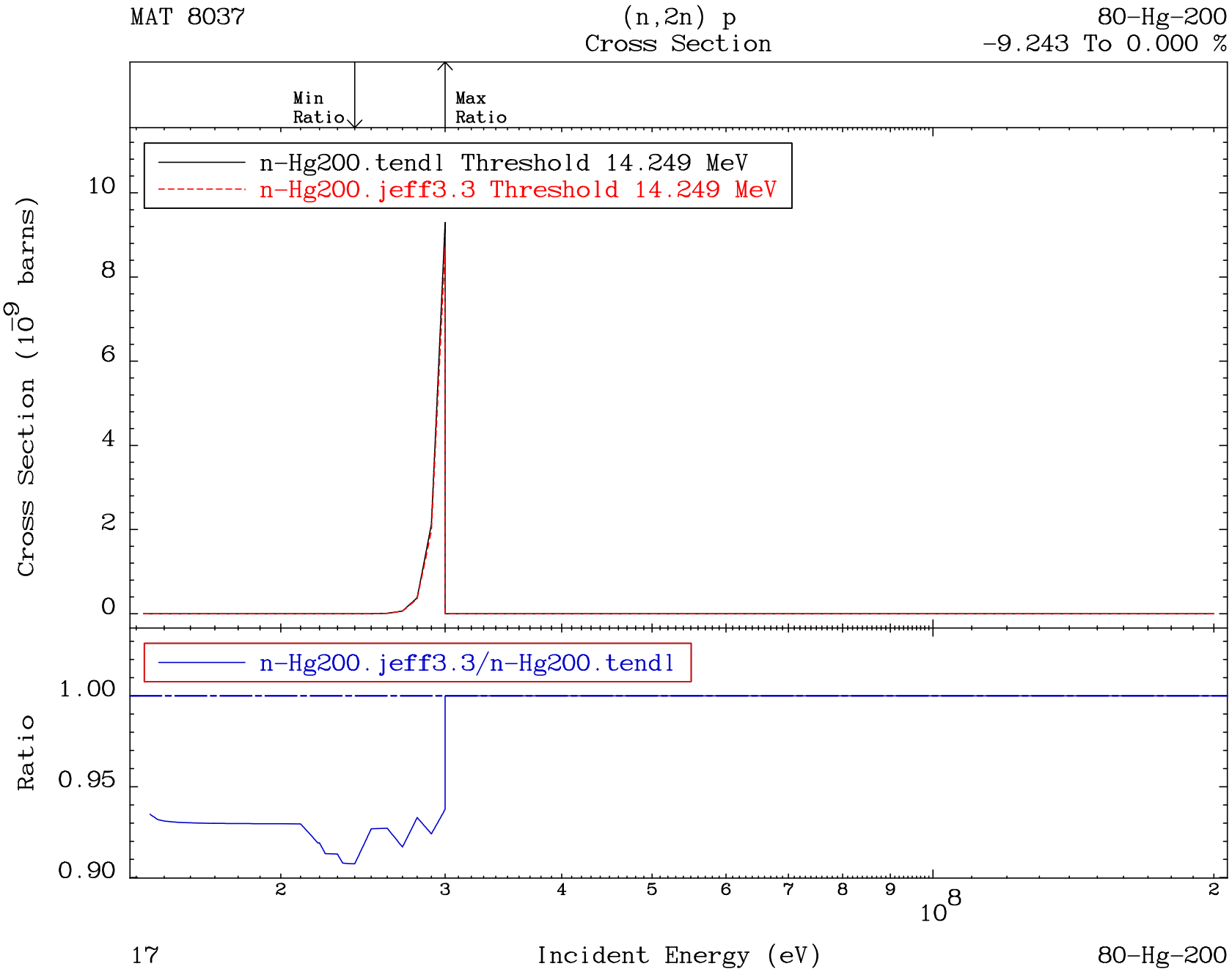

MAT 8037
(n,n') t
Cross Section
80-Hg-200
-18.57 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 13.381 MeV
n-Hg200.jeff3.3 Threshold 13.381 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
80-Hg-200

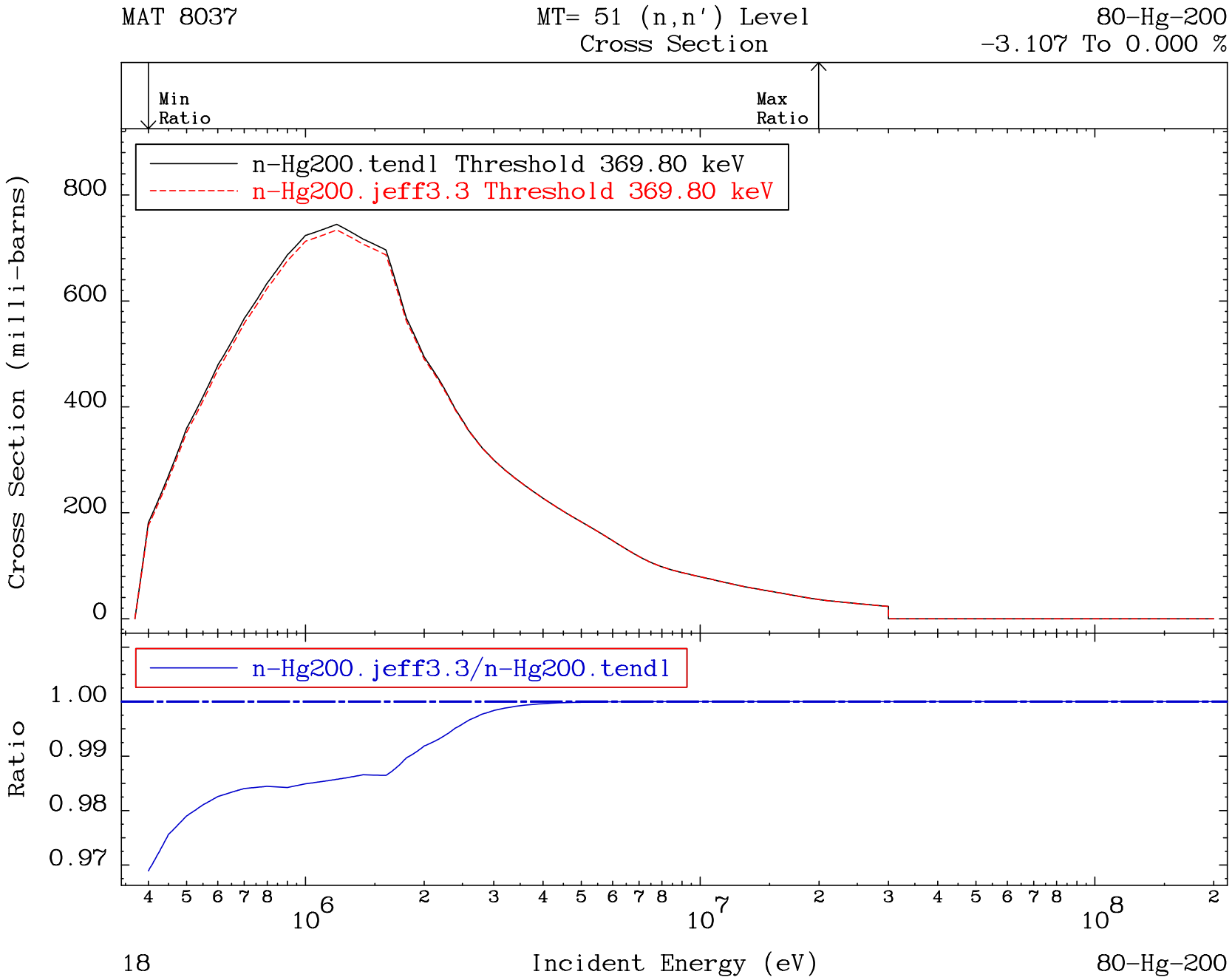

MAT 8037
(n,n') He-3
Cross Section
80-Hg-200
-15.89 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 14.085 MeV
n-Hg200.jeff3.3 Threshold 14.084 MeV
Cross Section (10^-9 barns)
300
250
200
150
100
50
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
80-Hg-200

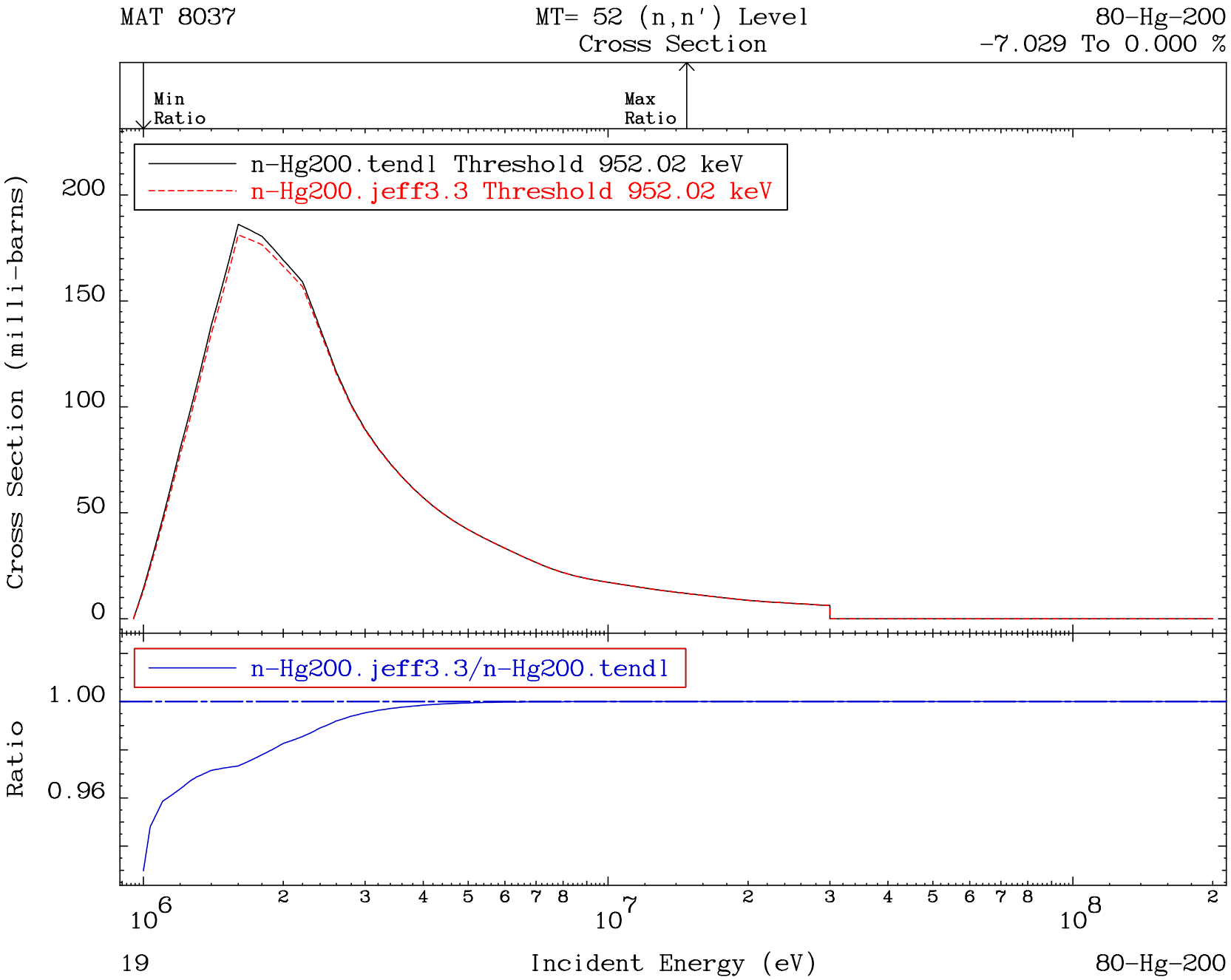

MAT 8037
(n,4n)
Cross Section
80-Hg-200
-21.71 To 0.000 %
Max
Ratio
n-Hg200.tendl Threshold 23.294 MeV
n-Hg200.jeff3.3 Threshold 23.294 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.0
0.9
0.8
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
80-Hg-200

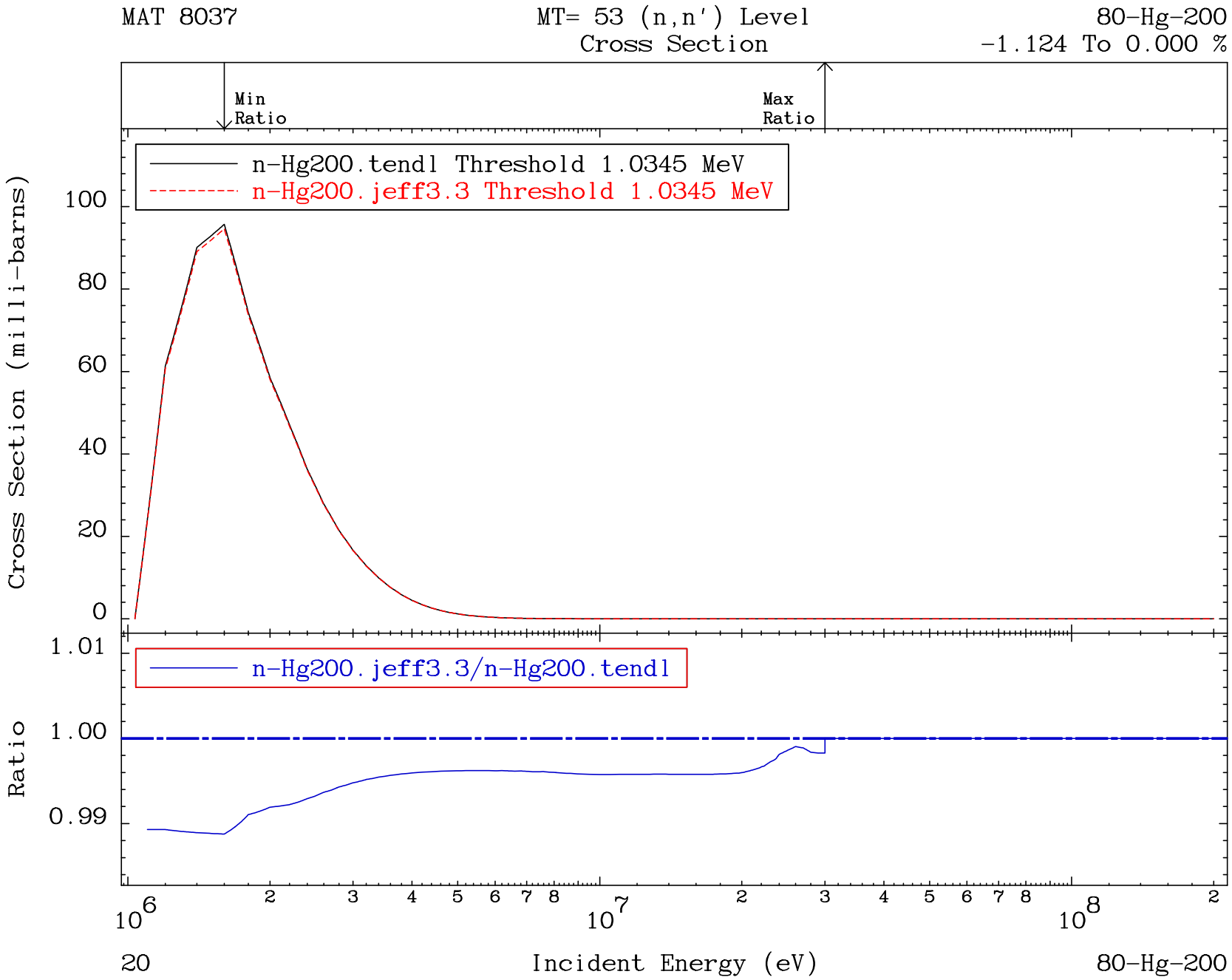

MAT 8037
(n,2n) p
Cross Section
80-Hg-200
-19.57 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 15.360 MeV
n-Hg200.jeff3.3 Threshold 15.360 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
0.8
0.9
1.0
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
80-Hg-200

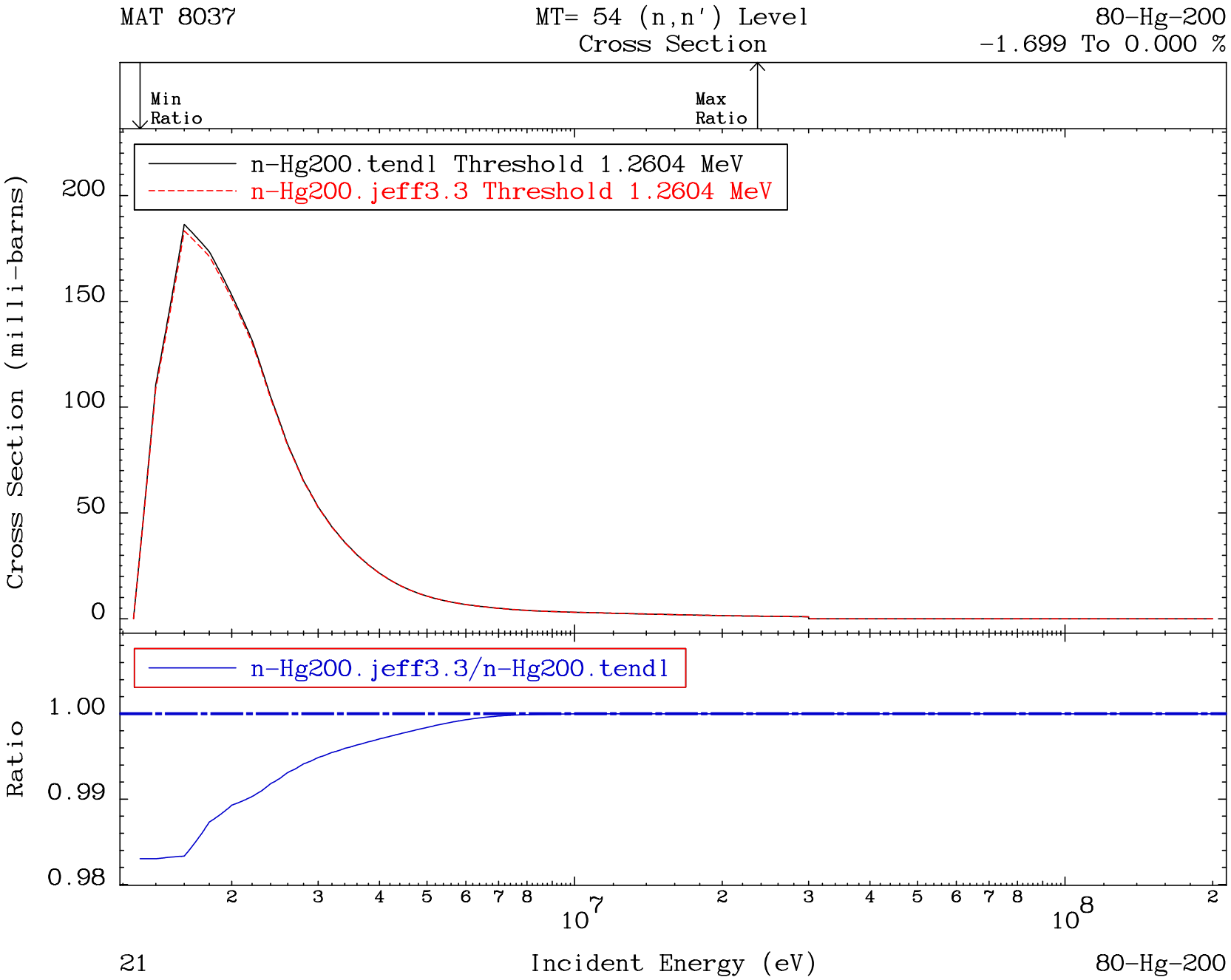

MAT 8037
(n,3n) p
Cross Section
80-Hg-200
-17.00 To 0.000 %
Max
Ratio
n-Hg200.tendl Threshold 21.905 MeV
n-Hg200.jeff3.3 Threshold 21.905 MeV
Cross Section (micro-barns)
20
15
10
5
0
n-Hg200.jeff3.3/n-Hg200.tendl
1.00
0.90
Ratio
20
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
80-Hg-200

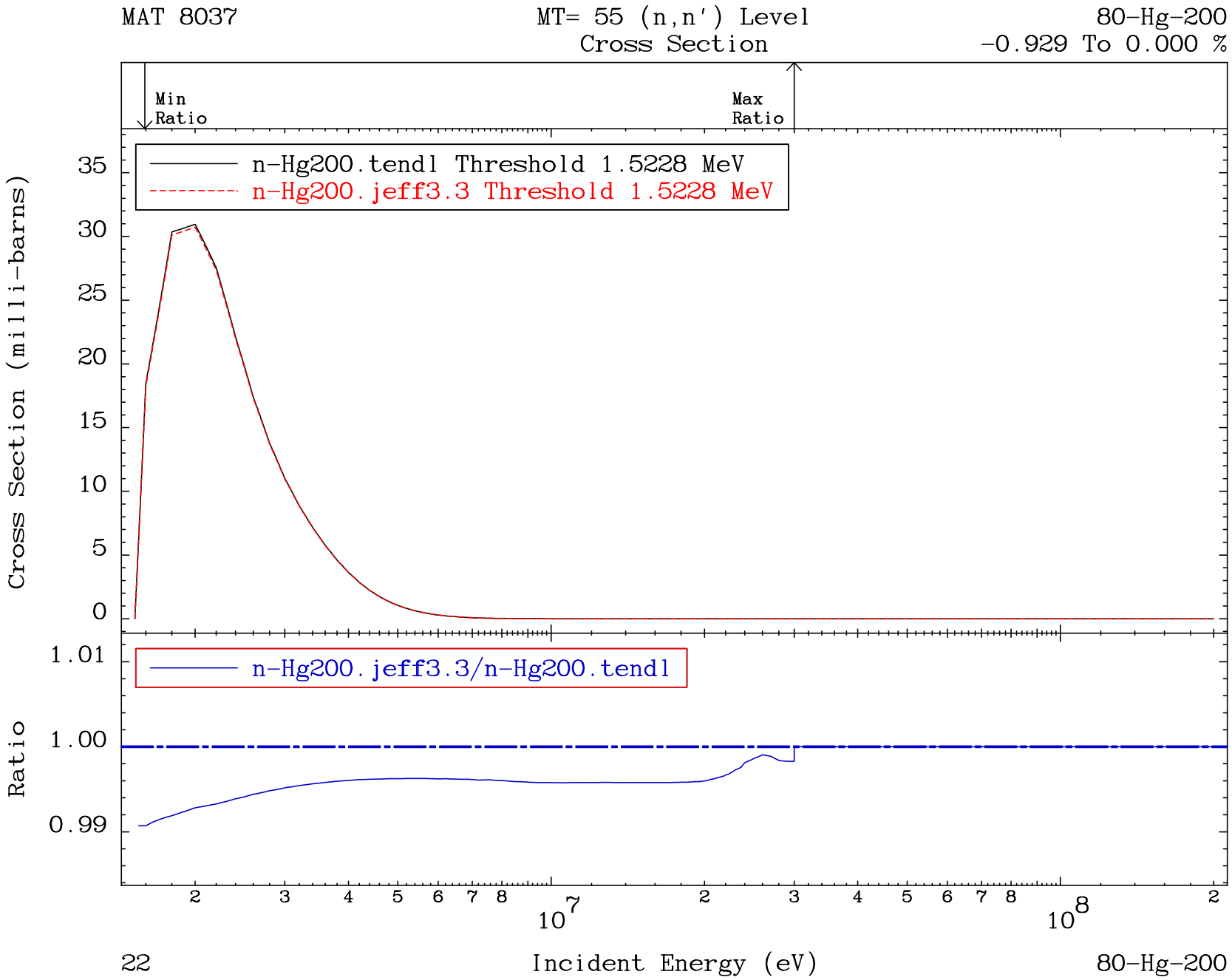

MAT 8037
(n,2n) p
Cross Section
80-Hg-200
-9.243 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 14.249 MeV
n-Hg200.jeff3.3 Threshold 14.249 MeV
Cross Section (10^{-9} barns)
10
8
6
4
2
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
9
10^{8}
2
17
Incident Energy (eV)
80-Hg-200

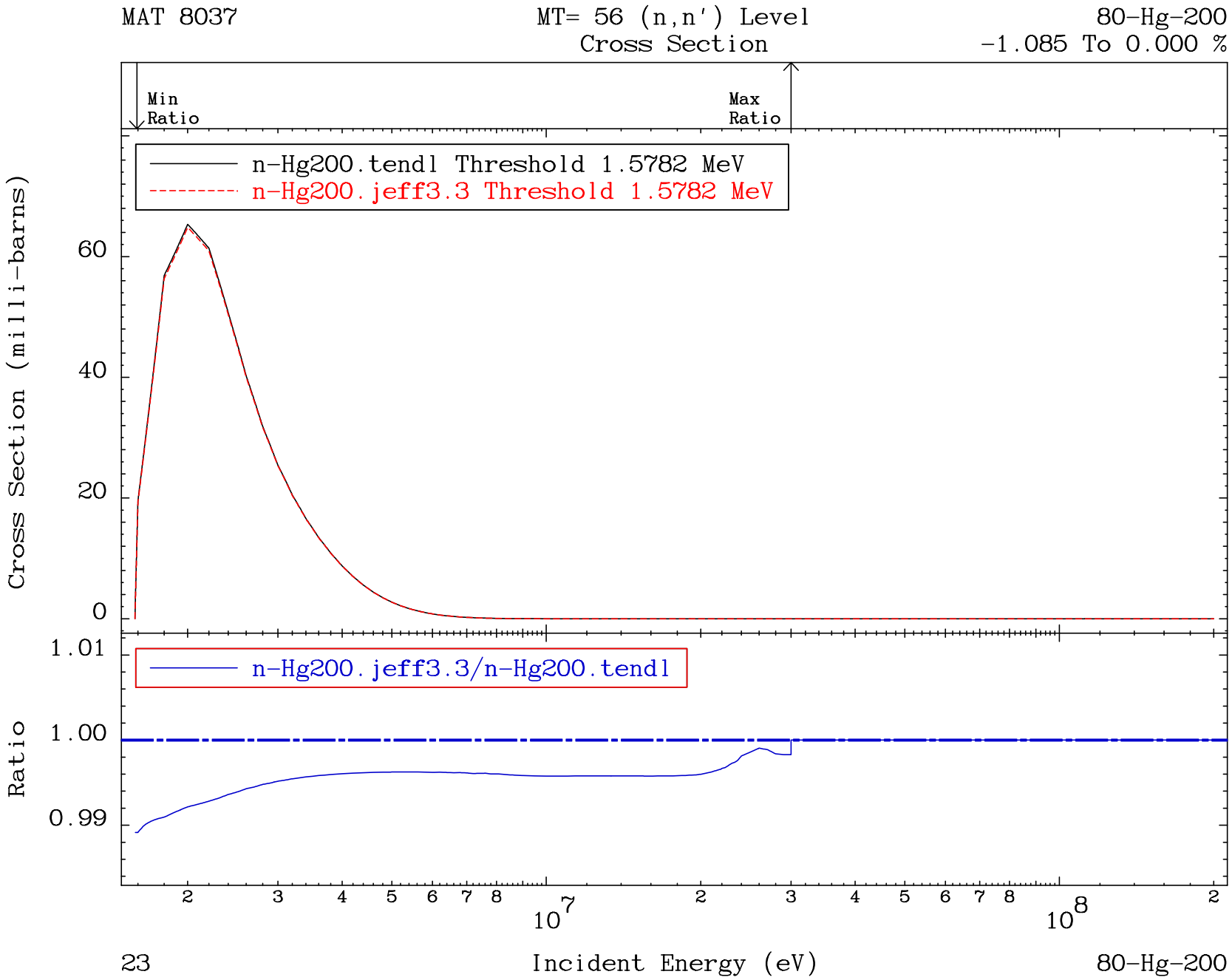

MAT 8037
MT= 51 (n,n') Level
Cross Section
80-Hg-200
-3.107 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 369.80 keV
n-Hg200.jeff3.3 Threshold 369.80 keV
Cross Section (milli-barns)
800
600
400
200
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.99
0.98
0.97
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
80-Hg-200

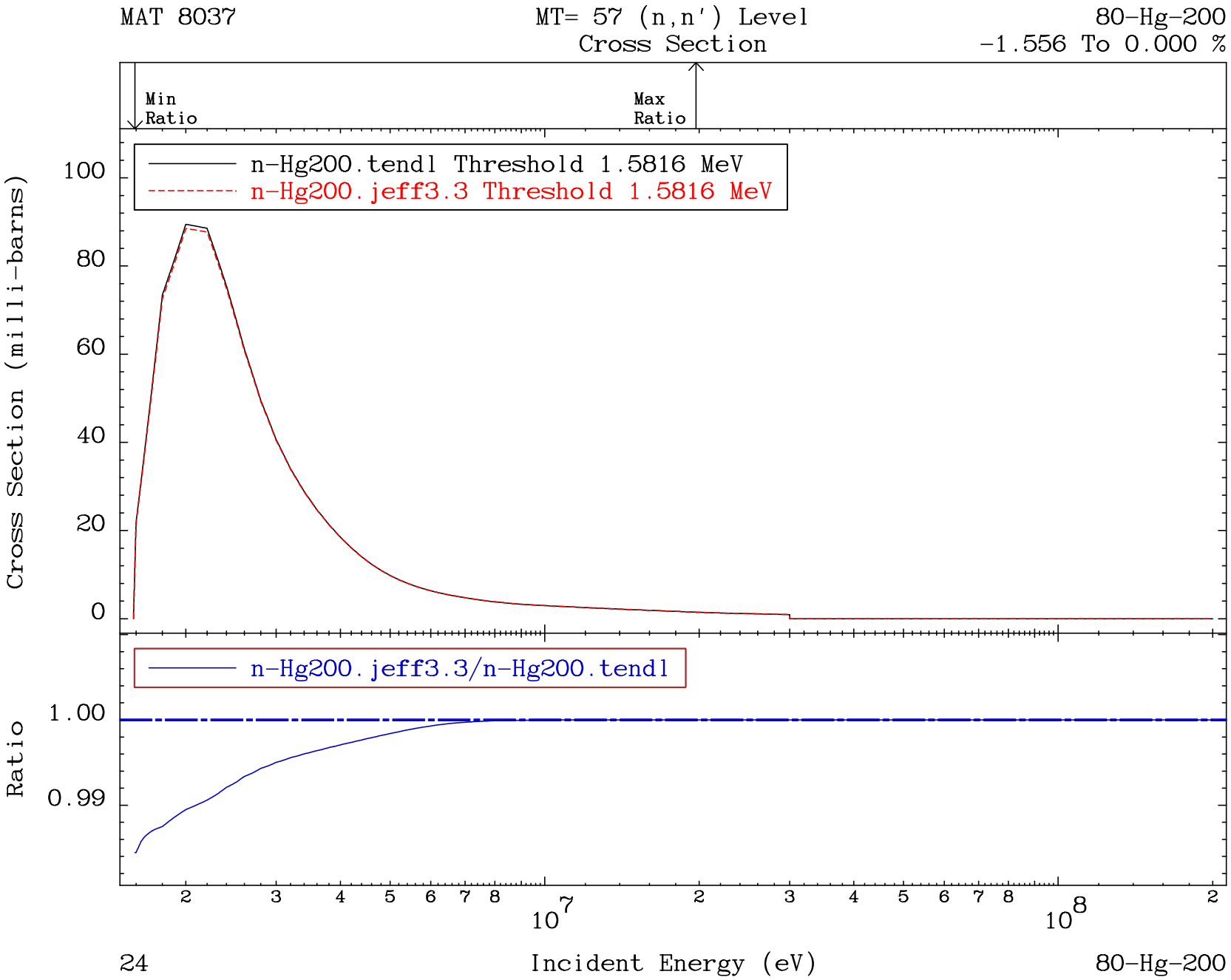

MAT 8037
MT= 52 (n,n') Level
Cross Section
80-Hg-200
-7.029 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 952.02 keV
n-Hg200.jeff3.3 Threshold 952.02 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.96
10^6
10^7
10^8
19
Incident Energy (eV)
80-Hg-200

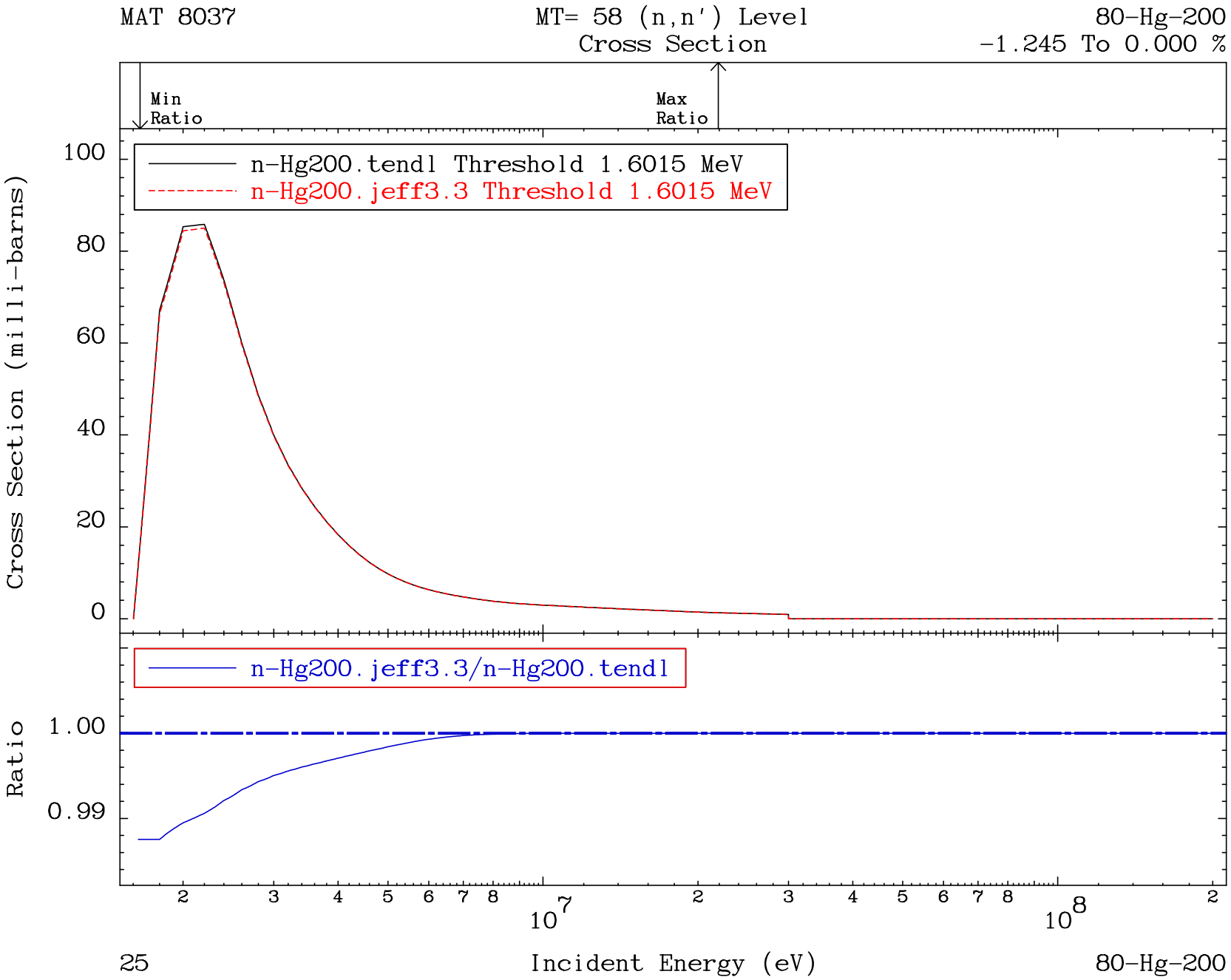

MAT 8037
MT= 53 (n,n') Level
Cross Section
80-Hg-200
-1.124 To 0.000 %
Min
Ratio
Max
Ratio
n-Hg200.tendl Threshold 1.0345 MeV
n-Hg200.jeff3.3 Threshold 1.0345 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
80-Hg-200

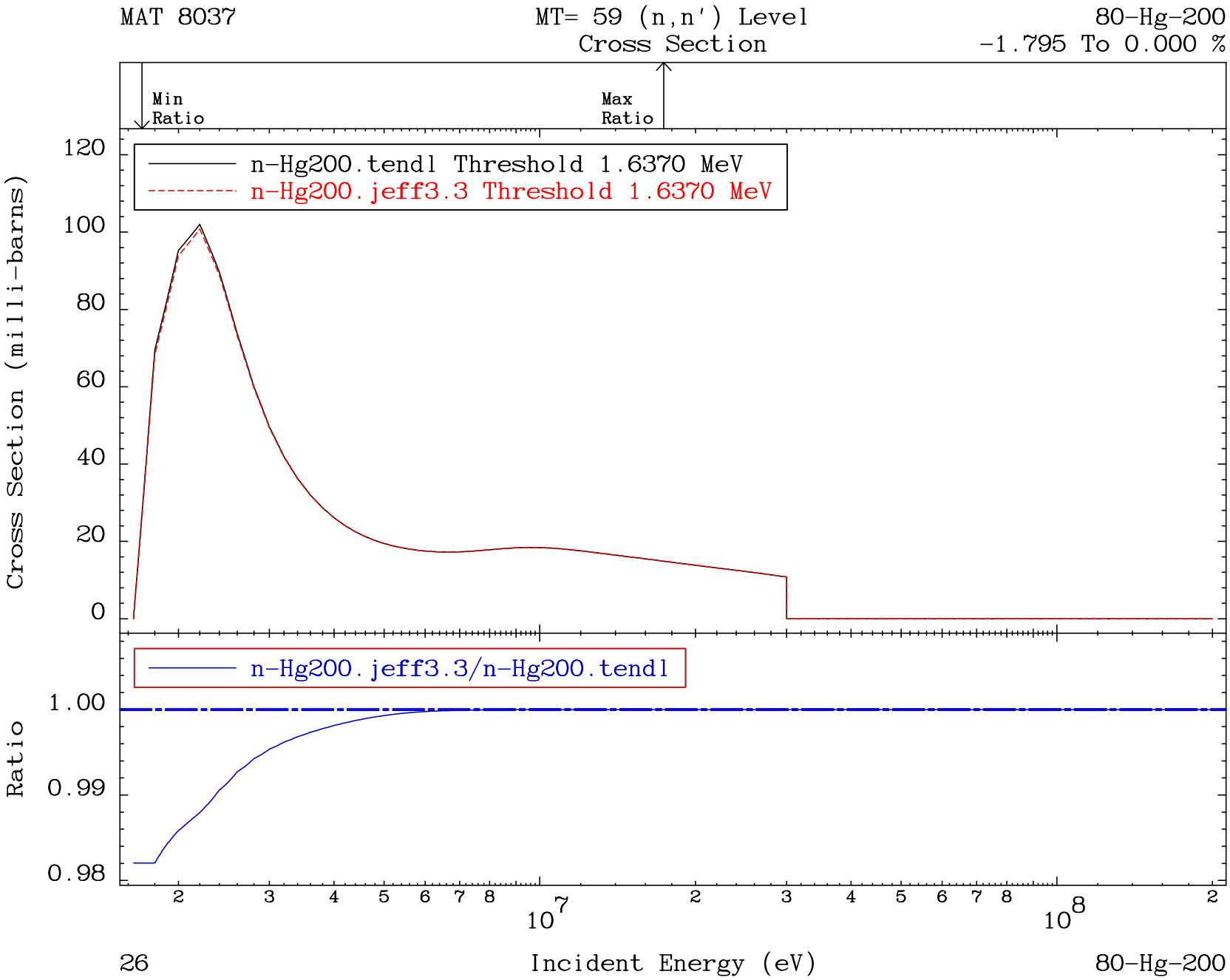

MAT 8037
MT= 54 (n,n') Level
Cross Section
80-Hg-200
-1.699 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.2604 MeV
n-Hg200.jeff3.3 Threshold 1.2604 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.99
0.98
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
80-Hg-200

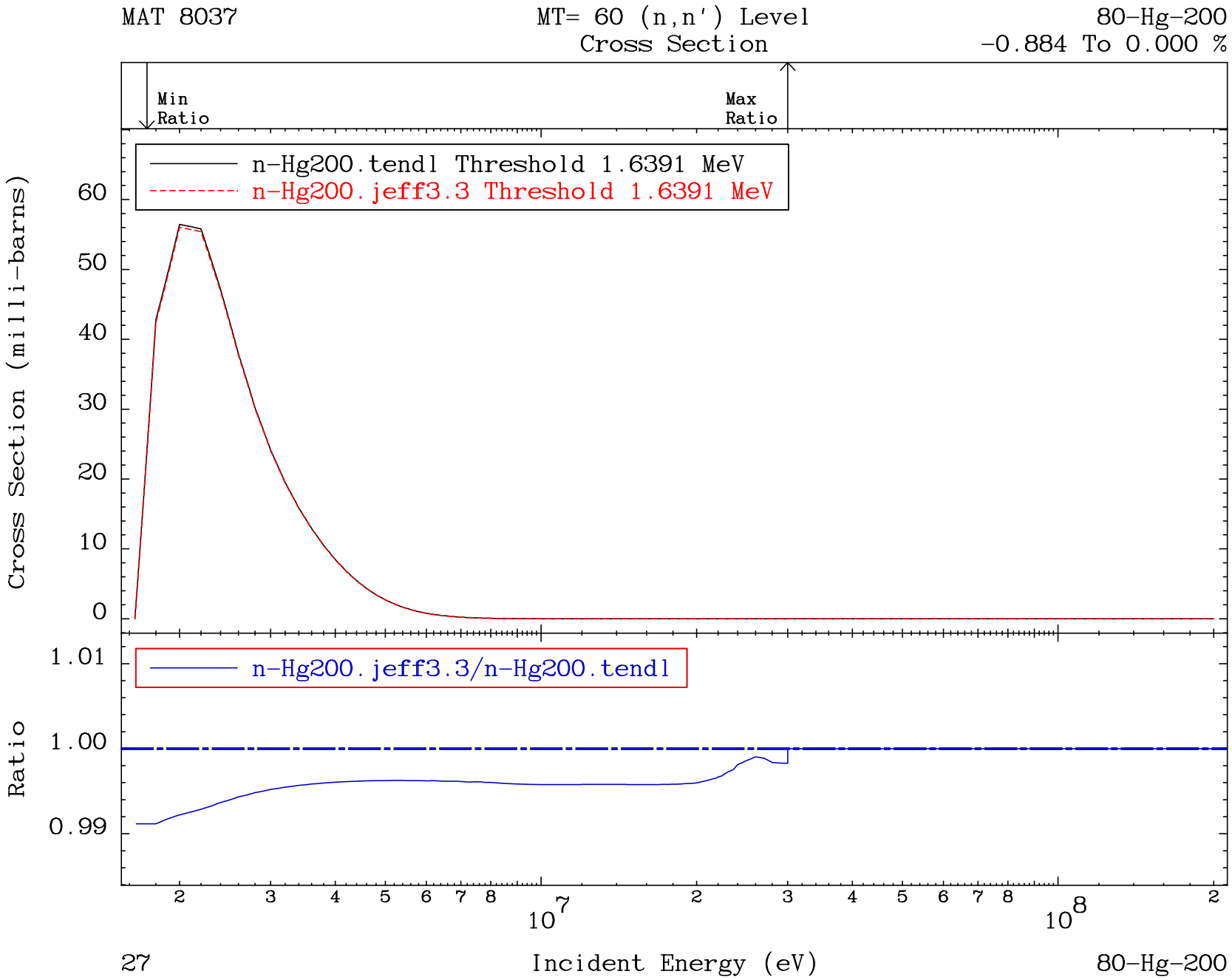

MAT 8037
MT= 55 (n,n') Level
Cross Section
80-Hg-200
-0.929 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.5228 MeV
n-Hg200.jeff3.3 Threshold 1.5228 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
80-Hg-200

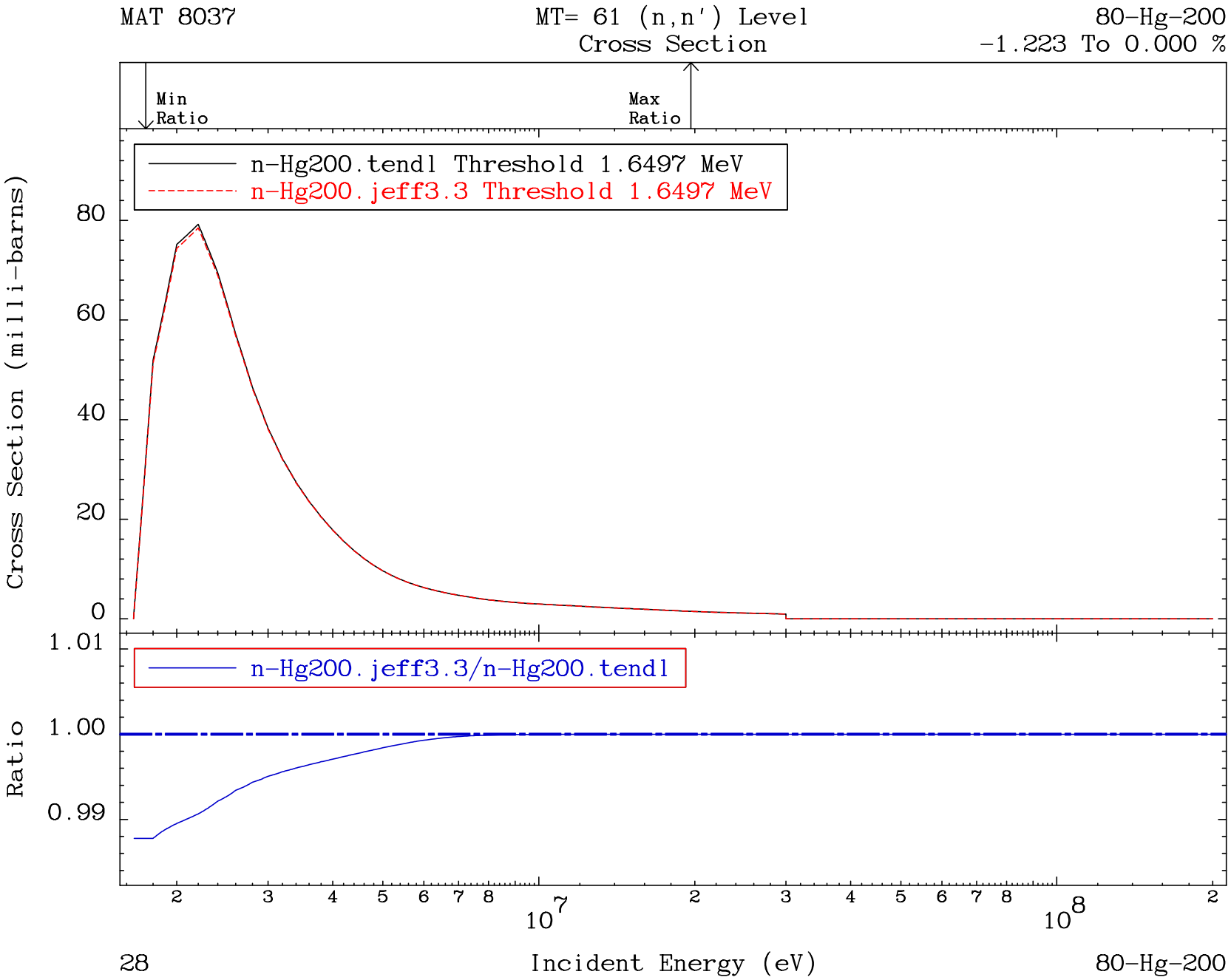

MAT 8037
MT= 56 (n,n') Level
Cross Section
80-Hg-200
-1.085 To 0.000 %
Min
Ratio
Max
Ratio
n-Hg200.tendl Threshold 1.5782 MeV
n-Hg200.jeff3.3 Threshold 1.5782 MeV
Cross Section (milli-barns)
60
40
20
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
23
Incident Energy (eV)
80-Hg-200

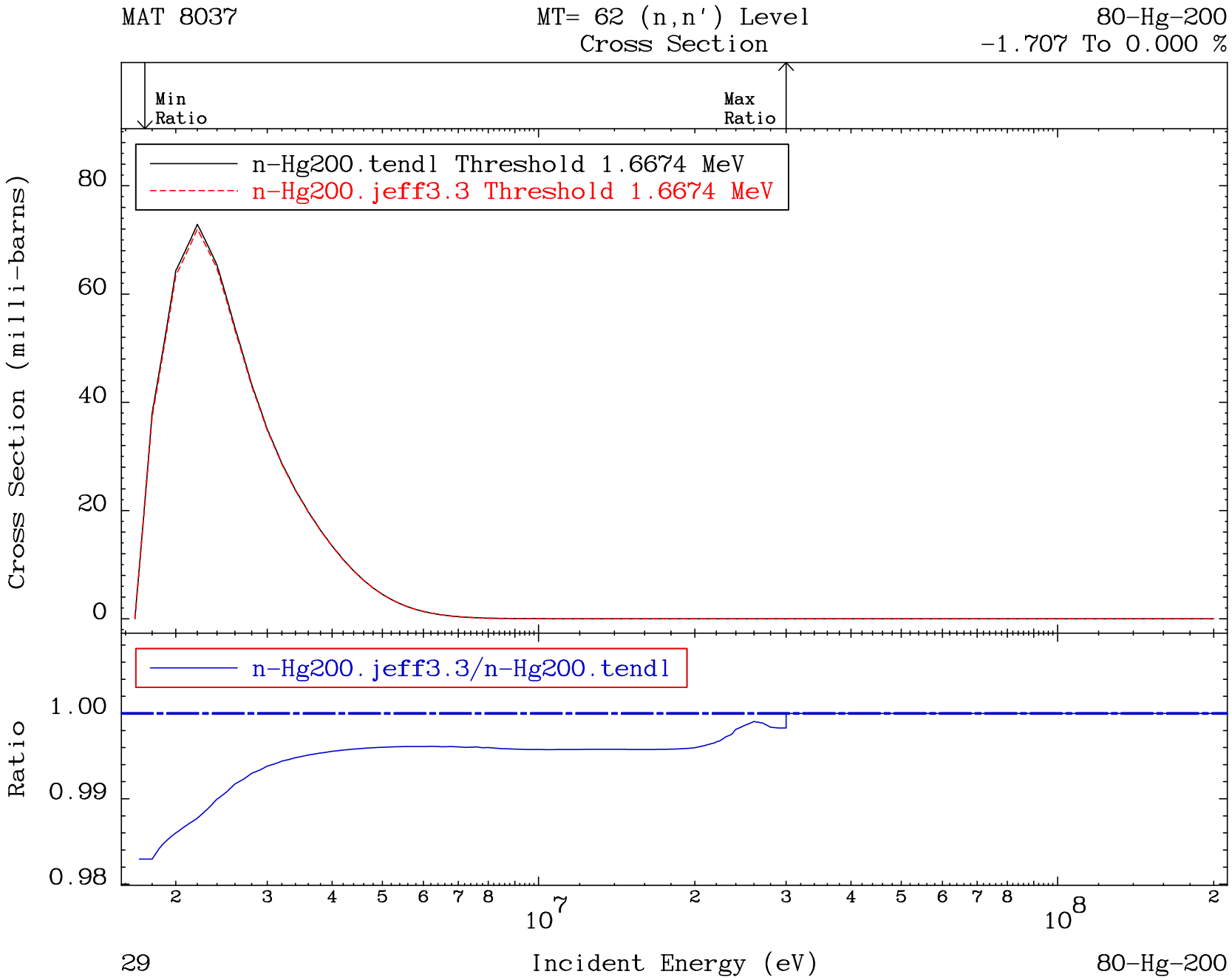

MAT 8037
MT= 57 (n,n') Level
Cross Section
80-Hg-200
-1.556 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.5816 MeV
n-Hg200.jeff3.3 Threshold 1.5816 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
80-Hg-200

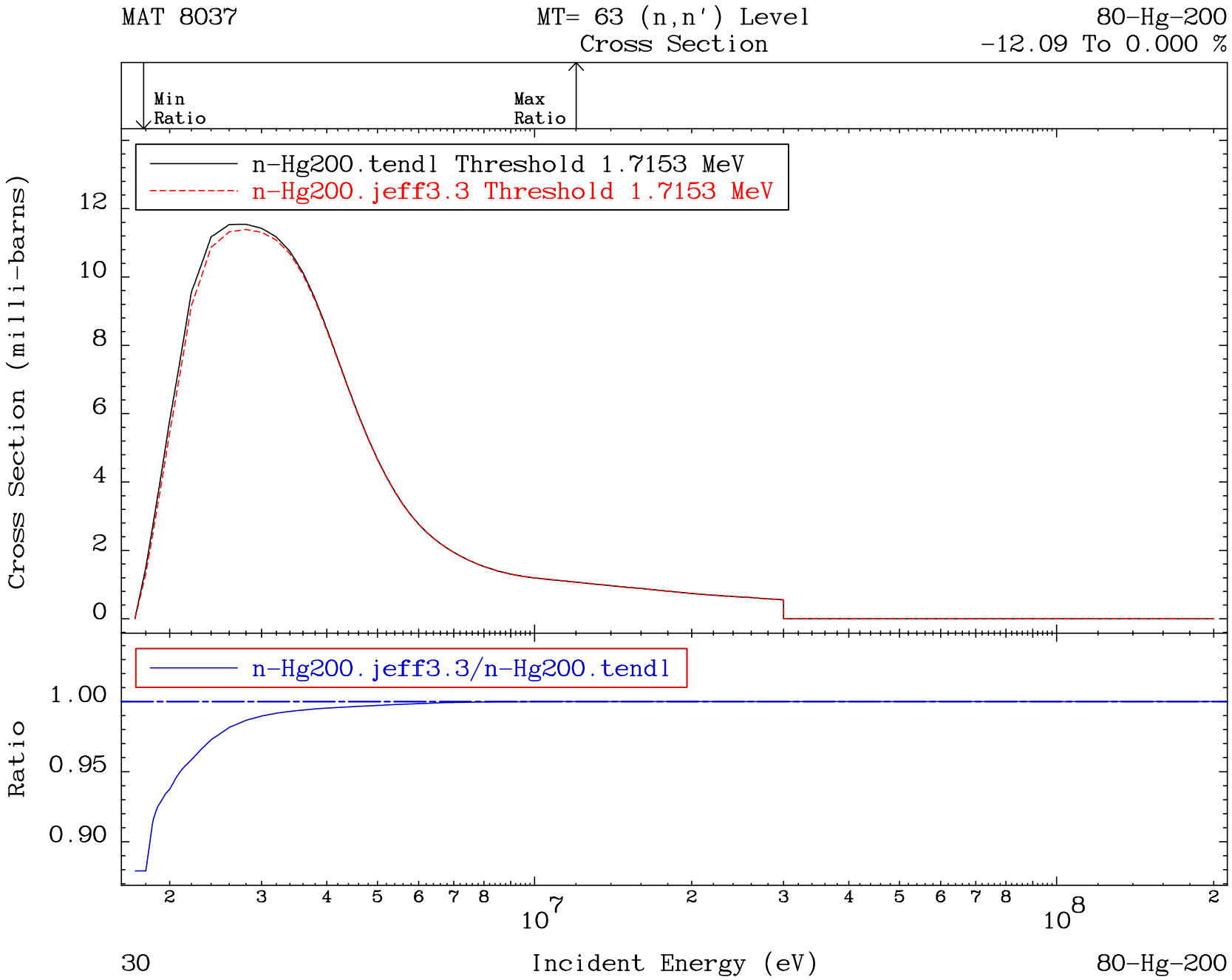

MAT 8037
MT= 58 (n,n') Level
Cross Section
80-Hg-200
-1.245 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.6015 MeV
n-Hg200.jeff3.3 Threshold 1.6015 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
80-Hg-200

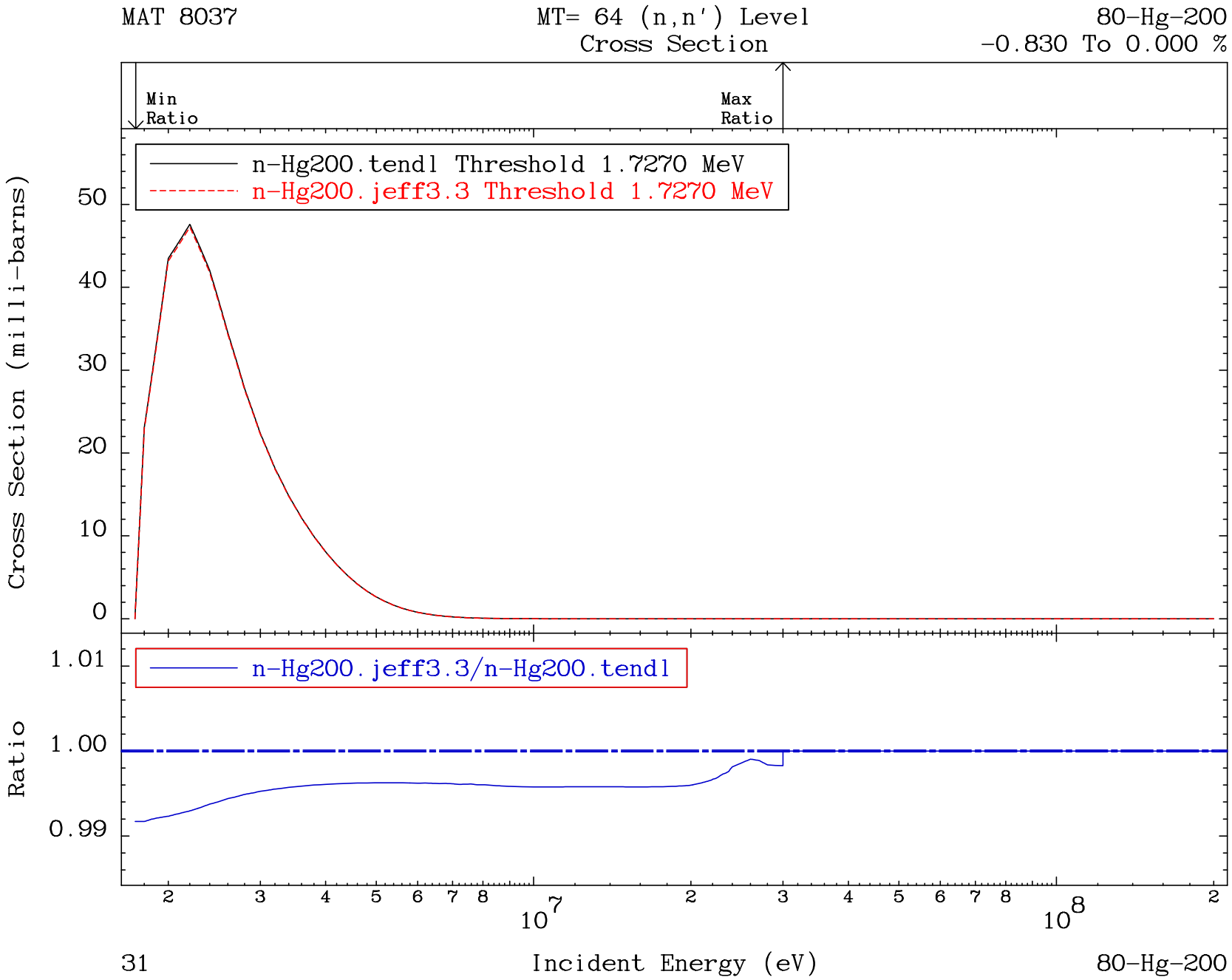

MAT 8037
MT= 59 (n,n') Level
Cross Section
80-Hg-200
-1.795 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.6370 MeV
n-Hg200.jeff3.3 Threshold 1.6370 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.99
0.98
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
80-Hg-200

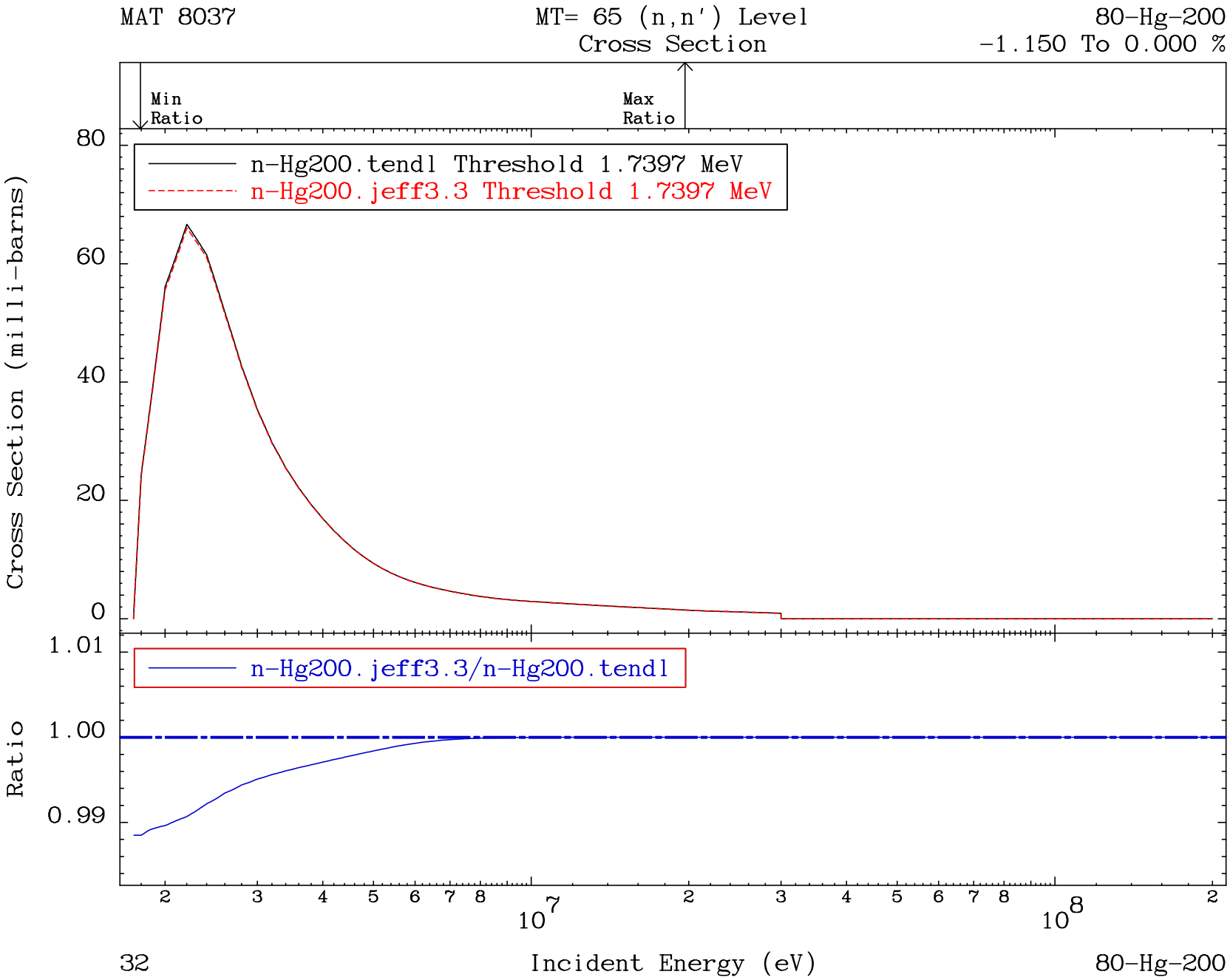

MAT 8037
MT= 60 (n,n') Level
Cross Section
80-Hg-200
-0.884 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.6391 MeV
n-Hg200.jeff3.3 Threshold 1.6391 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
80-Hg-200

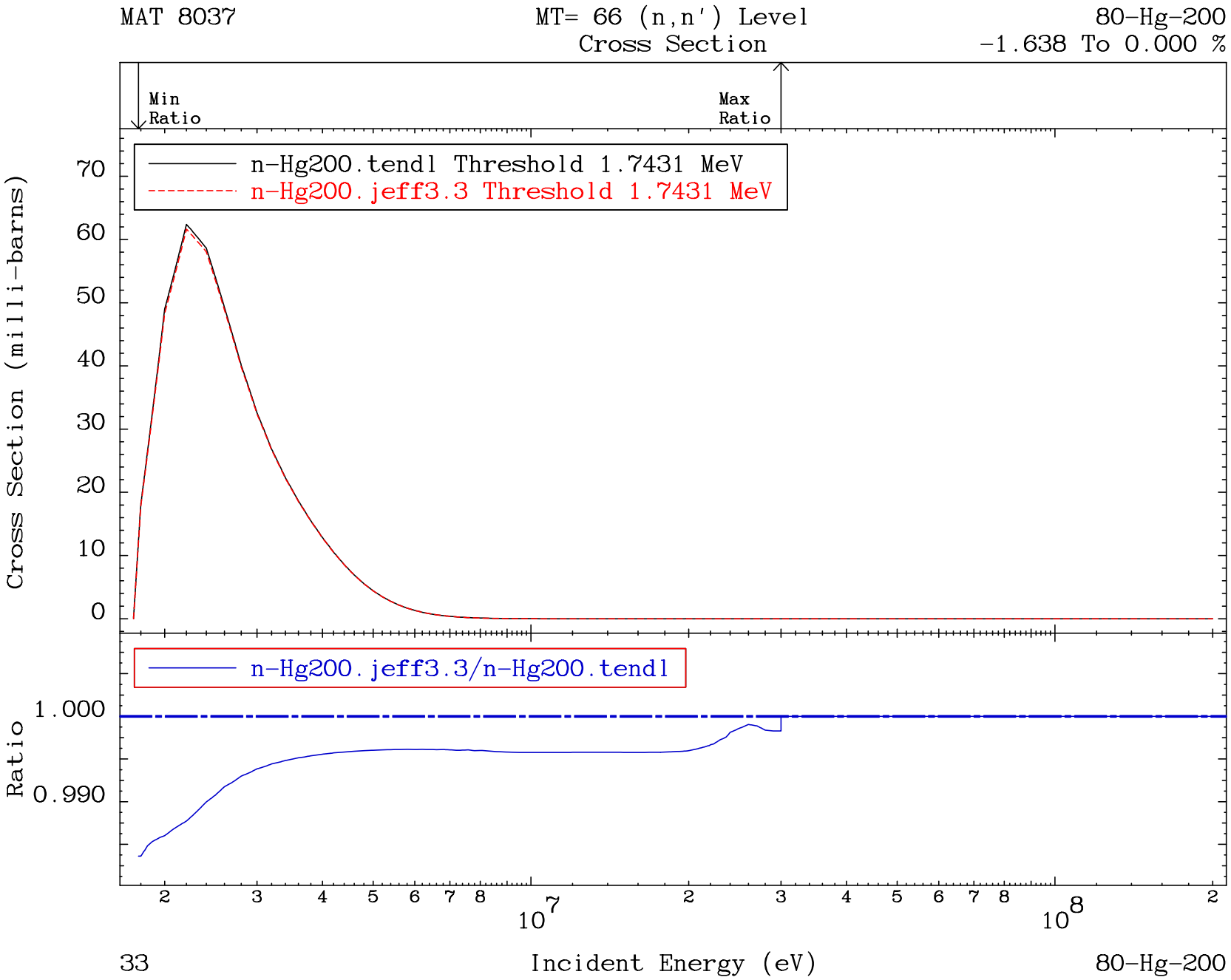

MAT 8037
MT= 61 (n,n') Level
Cross Section
80-Hg-200
-1.223 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.6497 MeV
n-Hg200.jeff3.3 Threshold 1.6497 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
80-Hg-200

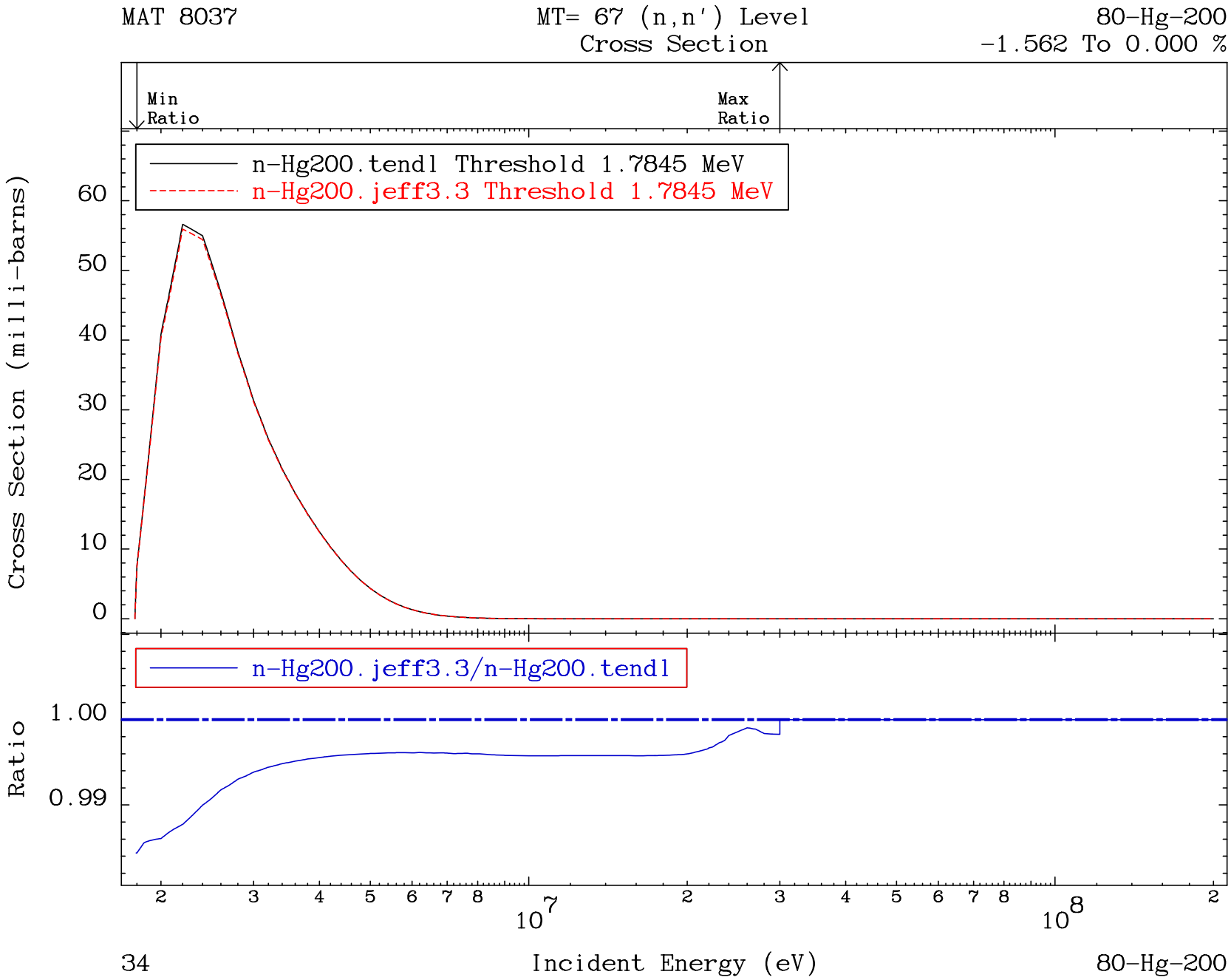

MAT 8037
MT= 62 (n,n') Level
Cross Section
80-Hg-200
-1.707 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.6674 MeV
n-Hg200.jeff3.3 Threshold 1.6674 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.99
0.98
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
80-Hg-200

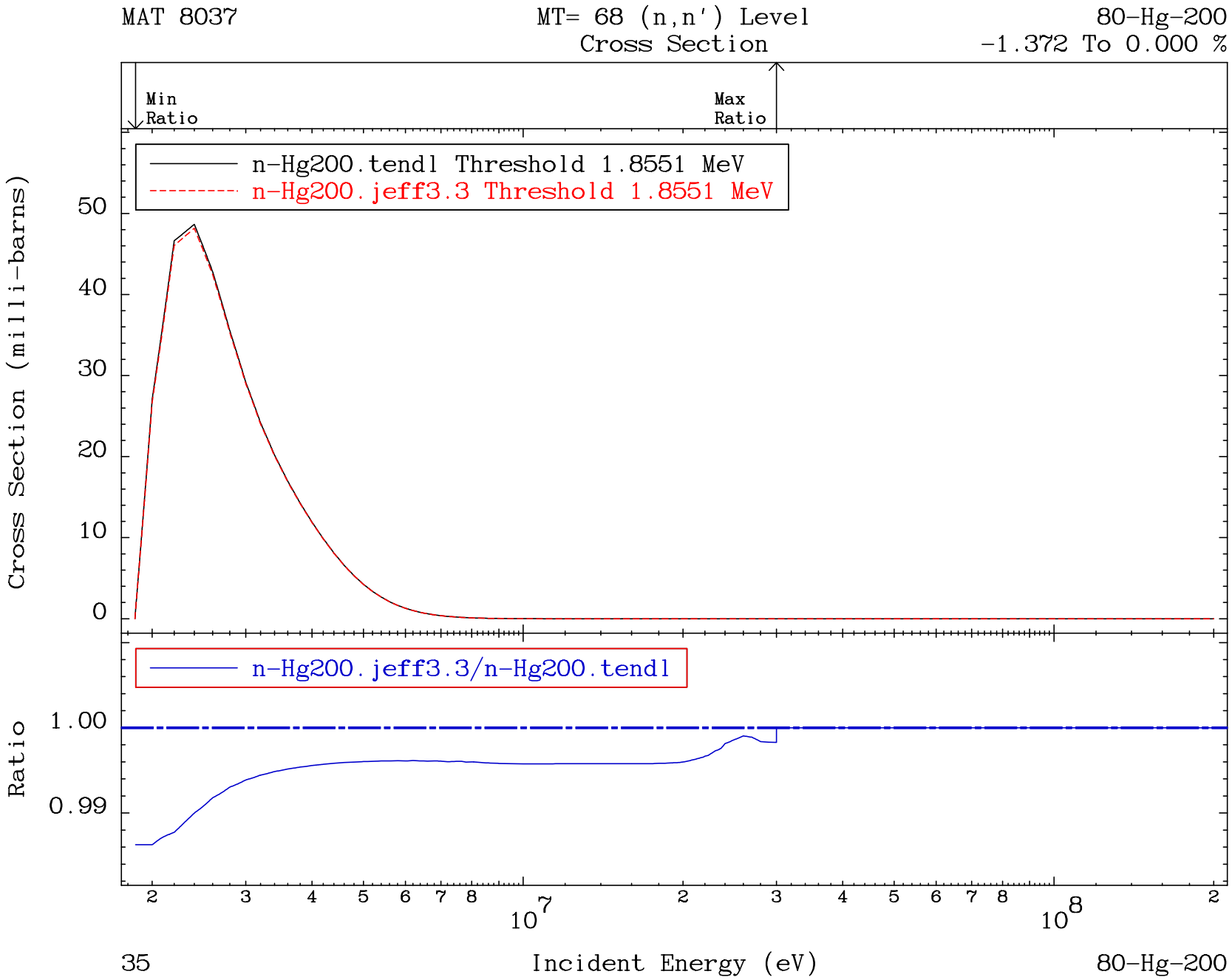

MAT 8037
MT= 63 (n,n') Level
Cross Section
80-Hg-200
-12.09 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.7153 MeV
n-Hg200.jeff3.3 Threshold 1.7153 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
0.90
0.95
1.00
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
30
80-Hg-200

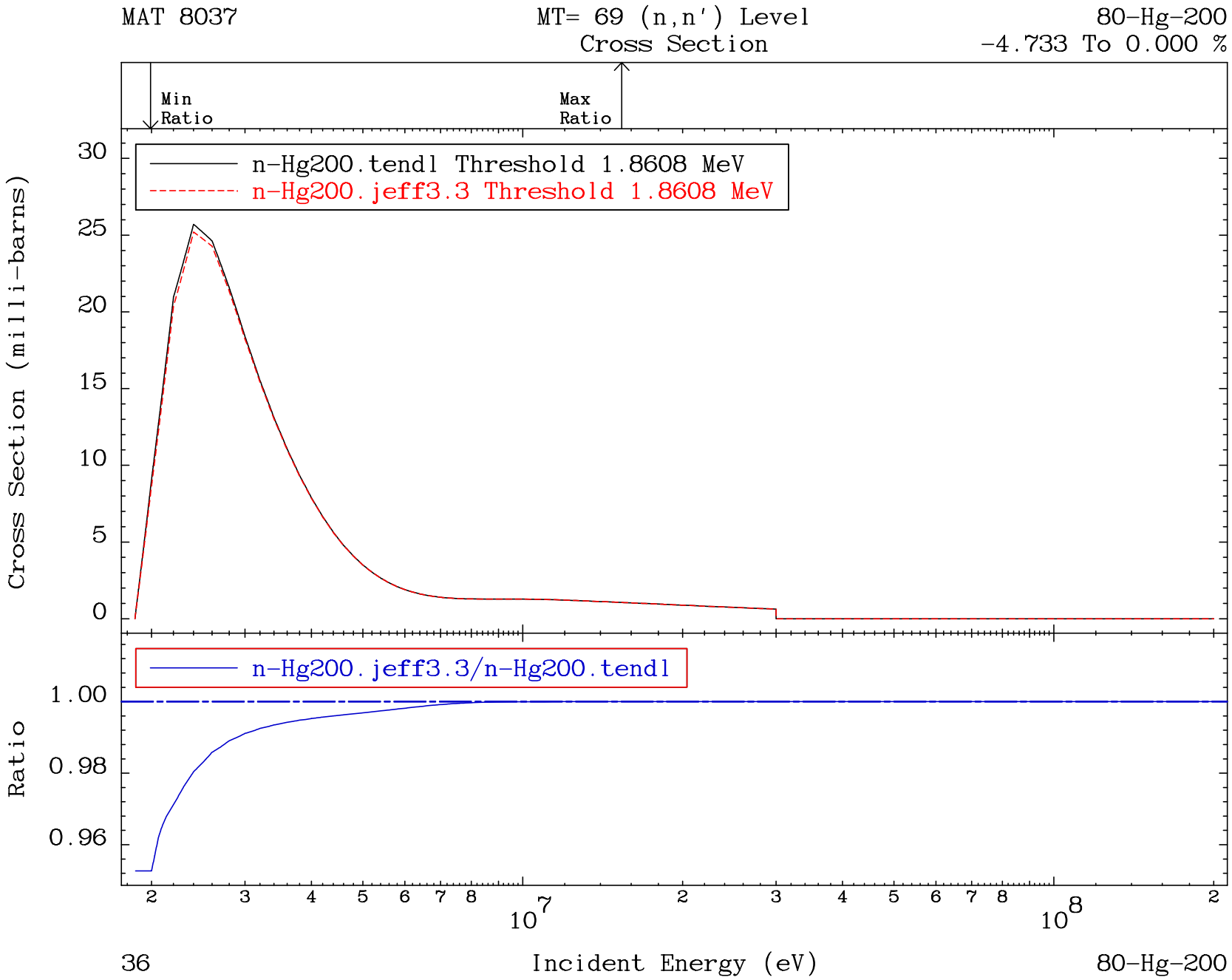

MAT 8037
MT= 64 (n,n') Level
Cross Section
80-Hg-200
-0.830 To 0.000 %
Min
Ratio
Max
Ratio
n-Hg200.tendl Threshold 1.7270 MeV
n-Hg200.jeff3.3 Threshold 1.7270 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
80-Hg-200

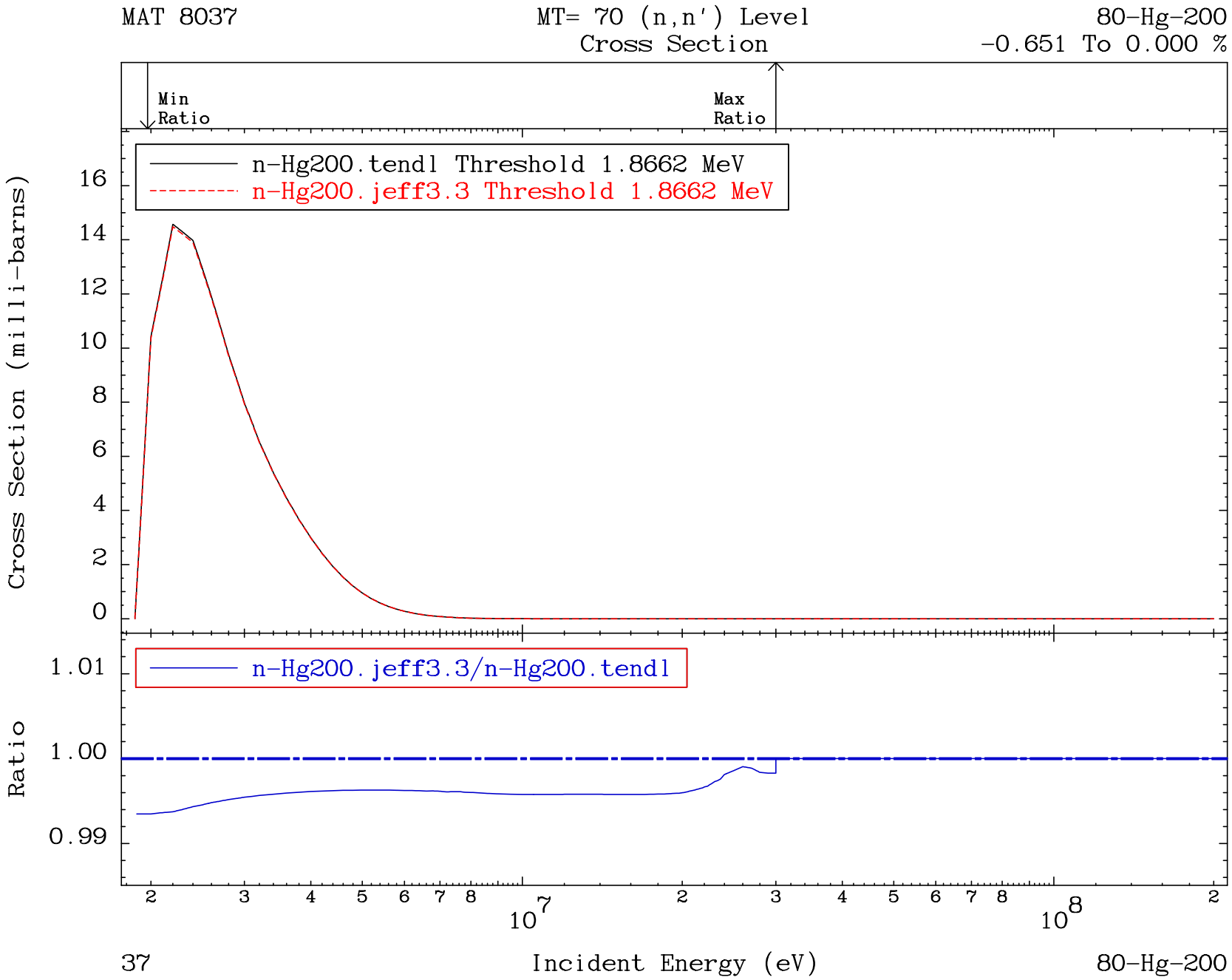

MAT 8037
MT= 65 (n,n') Level
Cross Section
80-Hg-200
-1.150 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.7397 MeV
n-Hg200.jeff3.3 Threshold 1.7397 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
80-Hg-200

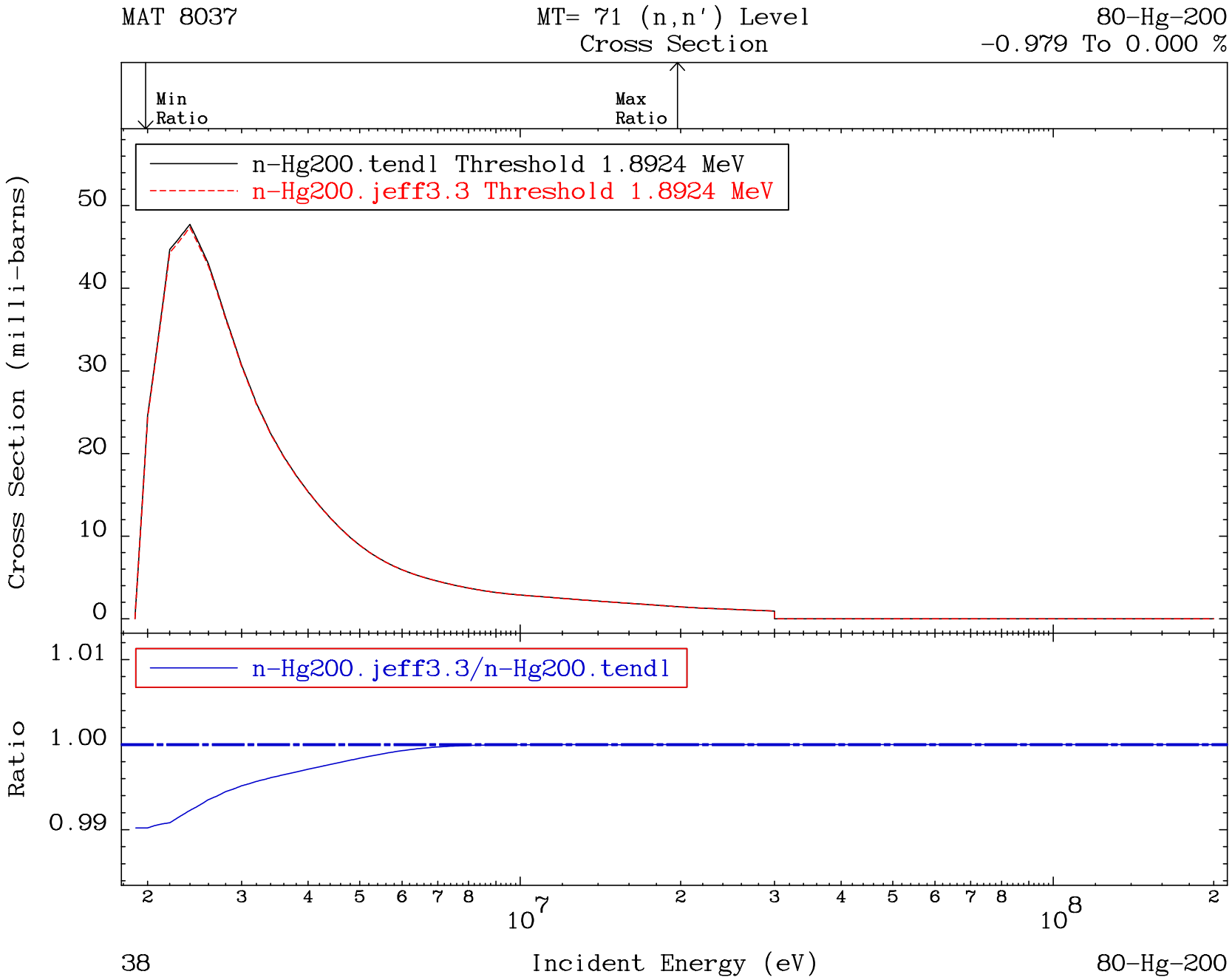

MAT 8037
MT= 66 (n,n') Level
Cross Section
80-Hg-200
-1.638 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.7431 MeV
n-Hg200.jeff3.3 Threshold 1.7431 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.000
0.990
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
33
Incident Energy (eV)
80-Hg-200

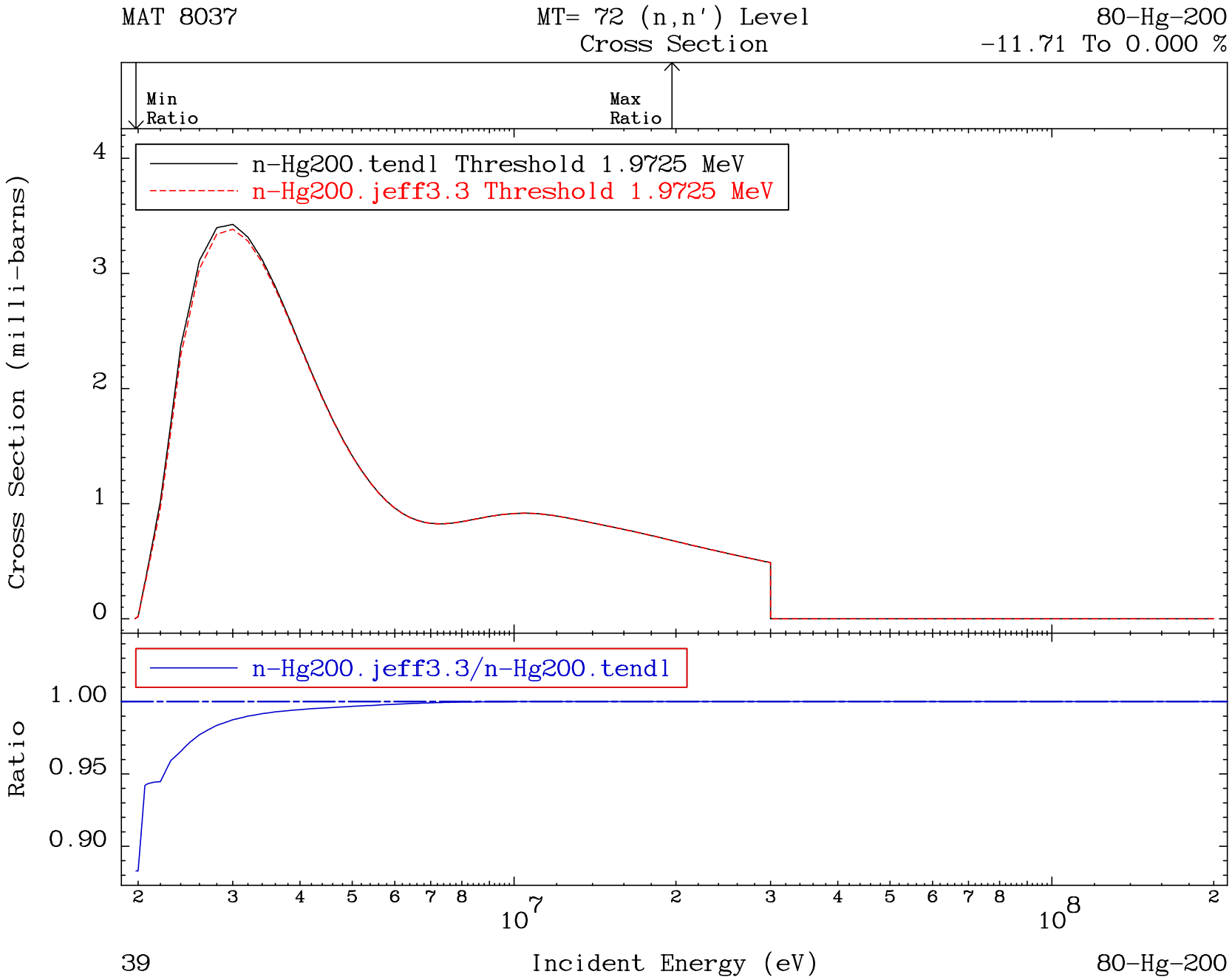

MAT 8037
MT= 67 (n,n') Level
Cross Section
80-Hg-200
-1.562 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.7845 MeV
n-Hg200.jeff3.3 Threshold 1.7845 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
80-Hg-200

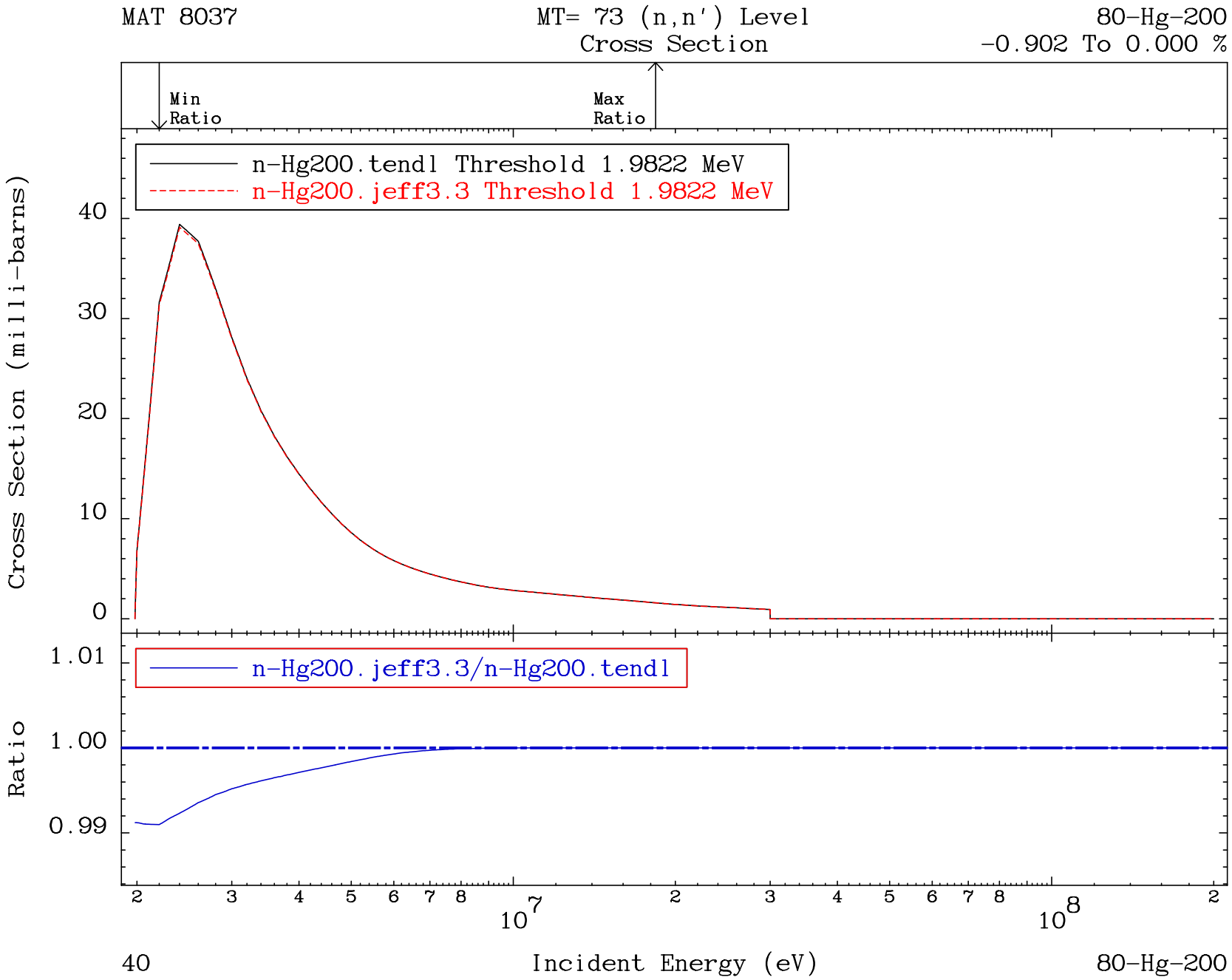

MAT 8037
MT= 68 (n,n') Level
Cross Section
80-Hg-200
-1.372 To 0.000 %
Min
Ratio
Max
Ratio
n-Hg200.tendl Threshold 1.8551 MeV
n-Hg200.jeff3.3 Threshold 1.8551 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
35
Incident Energy (eV)
80-Hg-200

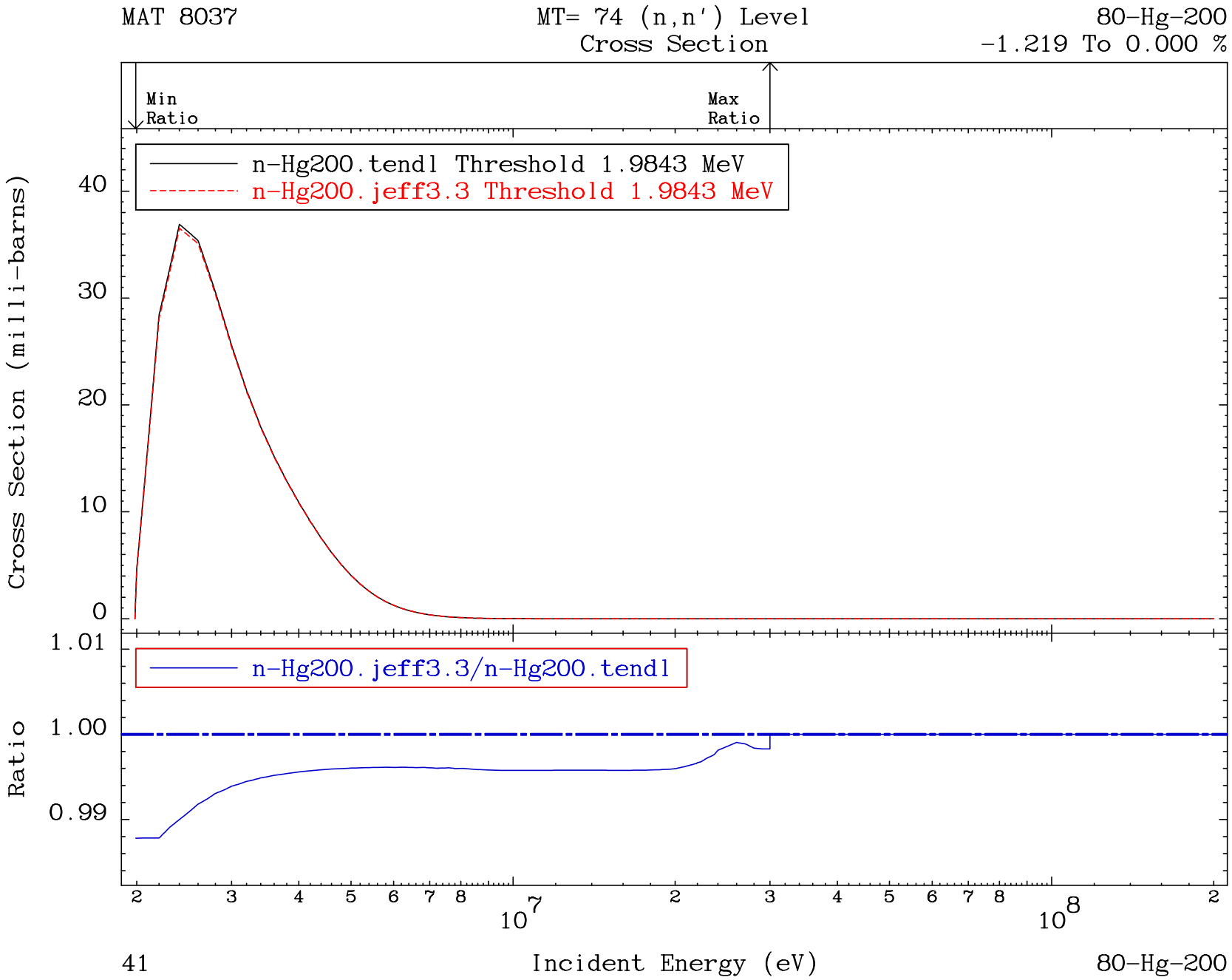

MAT 8037
MT= 69 (n,n') Level
Cross Section
80-Hg-200
-4.733 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.8608 MeV
n-Hg200.jeff3.3 Threshold 1.8608 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.98
0.96
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
80-Hg-200

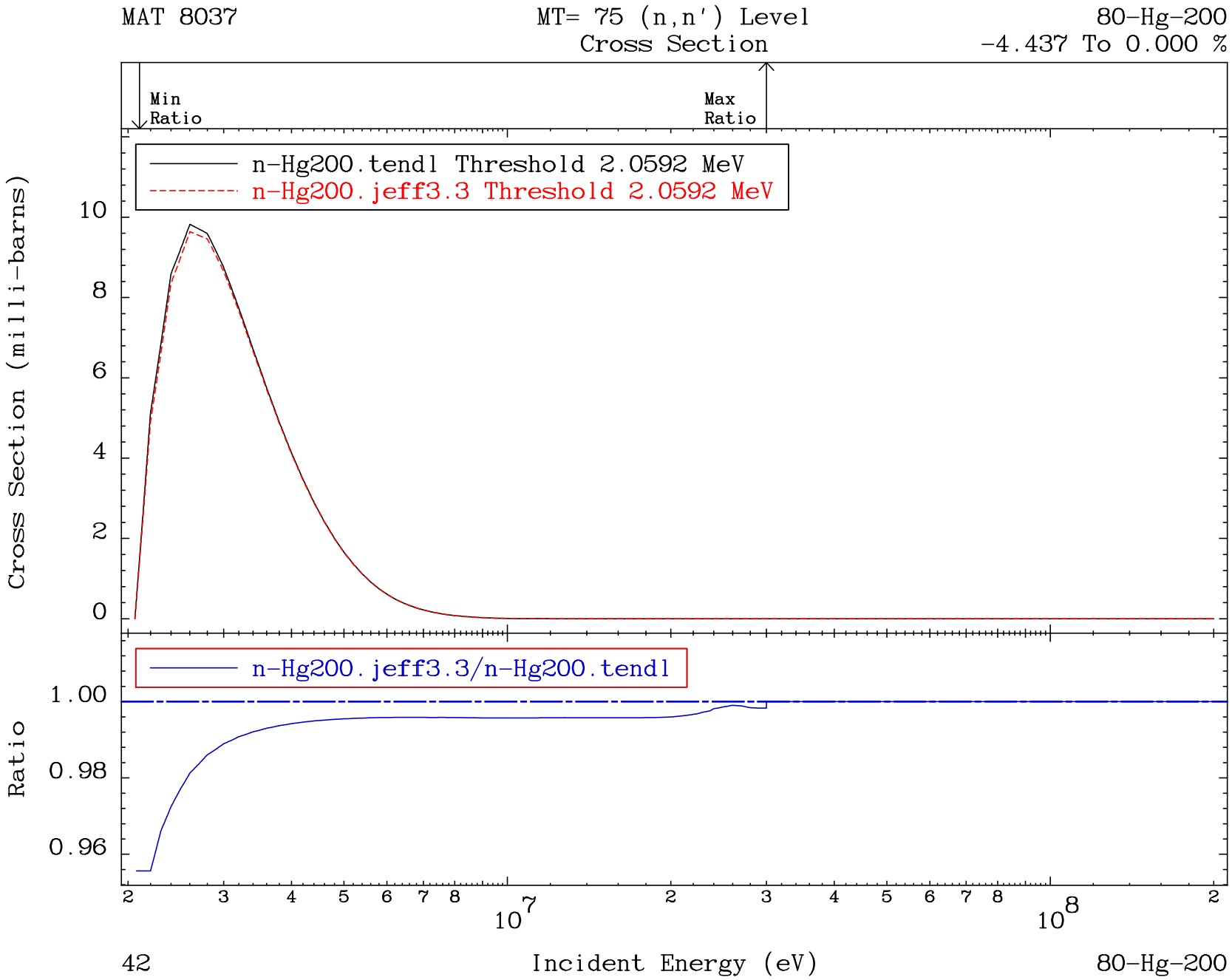

MAT 8037
MT= 70 (n,n') Level
Cross Section
80-Hg-200
-0.651 To 0.000 %
Min
Ratio
Max
Ratio
n-Hg200.tendl Threshold 1.8662 MeV
n-Hg200.jeff3.3 Threshold 1.8662 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
37
Incident Energy (eV)
80-Hg-200

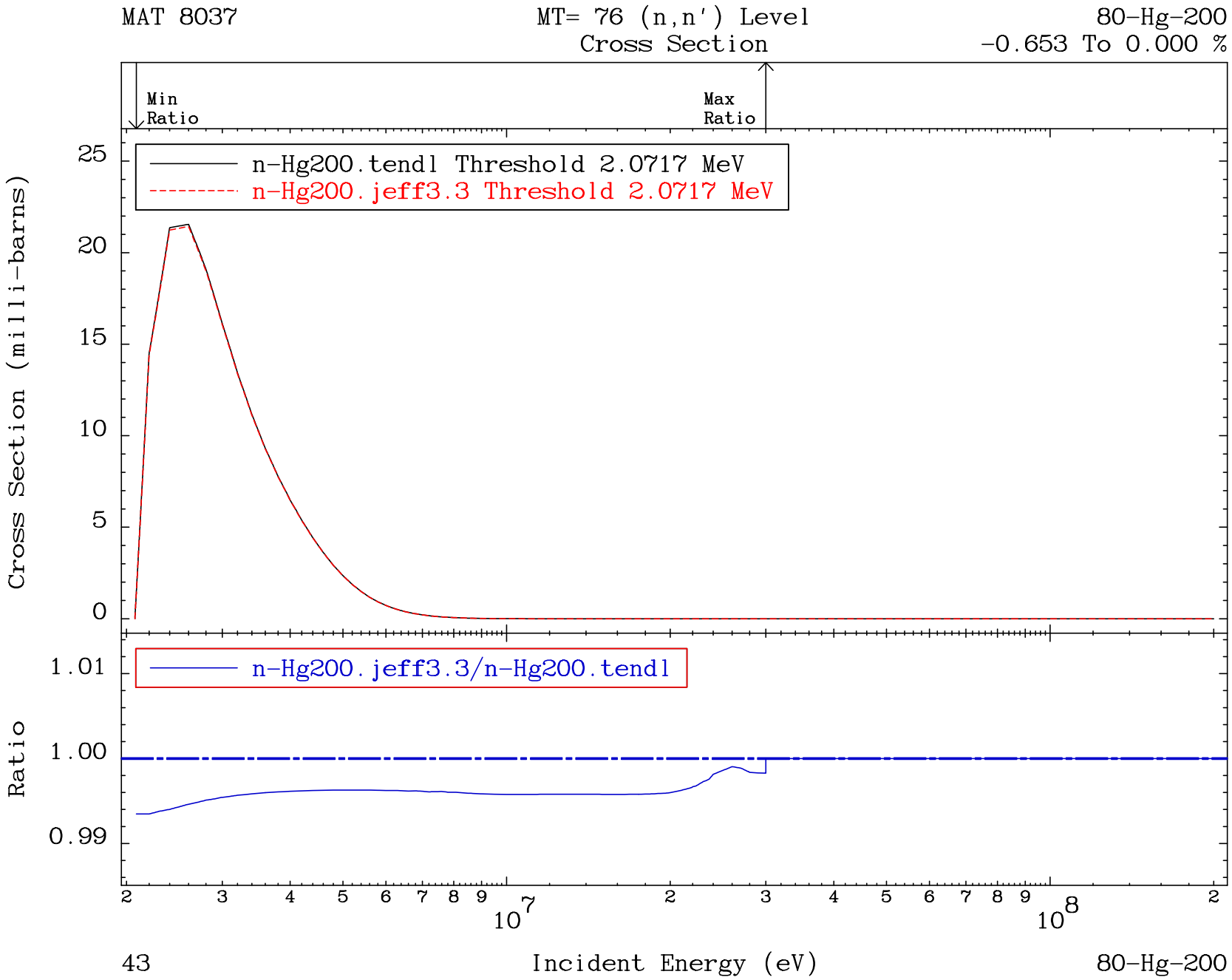

MAT 8037
MT= 71 (n,n') Level
Cross Section
80-Hg-200
-0.979 To 0.000 %
Min
Ratio
Max
Ratio
n-Hg200.tendl Threshold 1.8924 MeV
n-Hg200.jeff3.3 Threshold 1.8924 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
38
Incident Energy (eV)
80-Hg-200

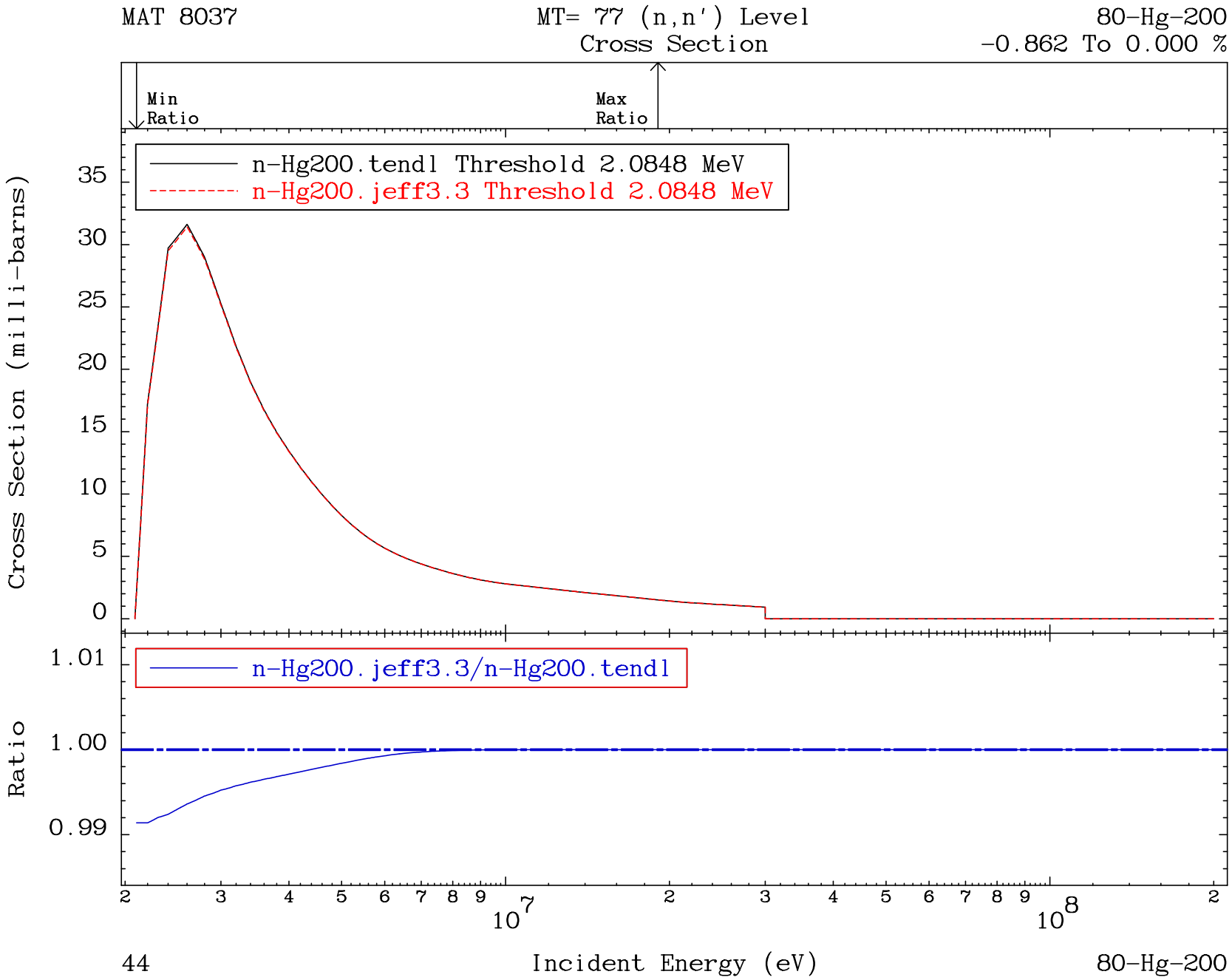

MAT 8037
MT= 72 (n,n') Level
Cross Section
80-Hg-200
-11.71 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.9725 MeV
n-Hg200.jeff3.3 Threshold 1.9725 MeV
Cross Section (milli-barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
Incident Energy (eV)
39
80-Hg-200

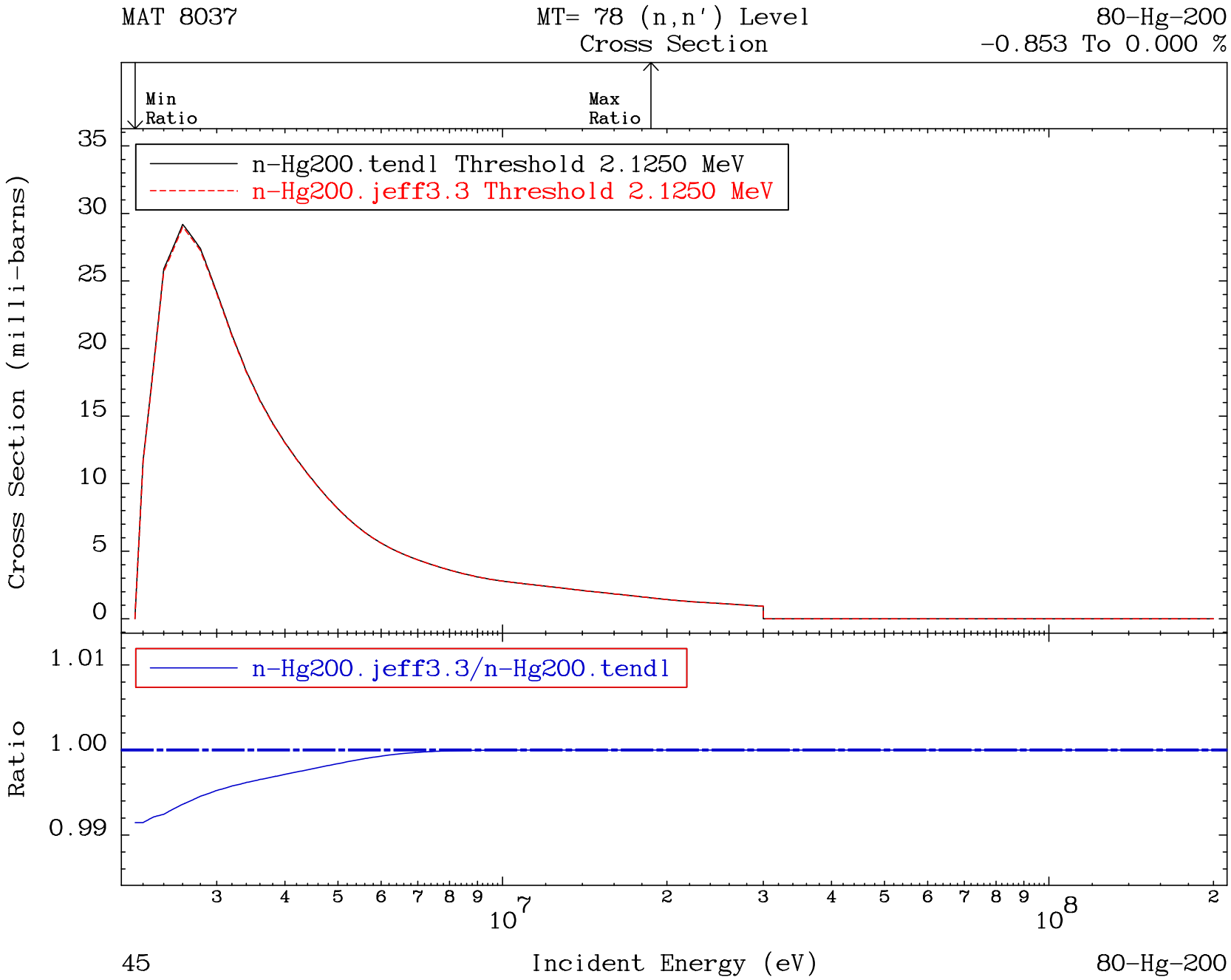

MAT 8037
MT= 73 (n,n') Level
Cross Section
80-Hg-200
-0.902 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.9822 MeV
n-Hg200.jeff3.3 Threshold 1.9822 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
40
Incident Energy (eV)
80-Hg-200

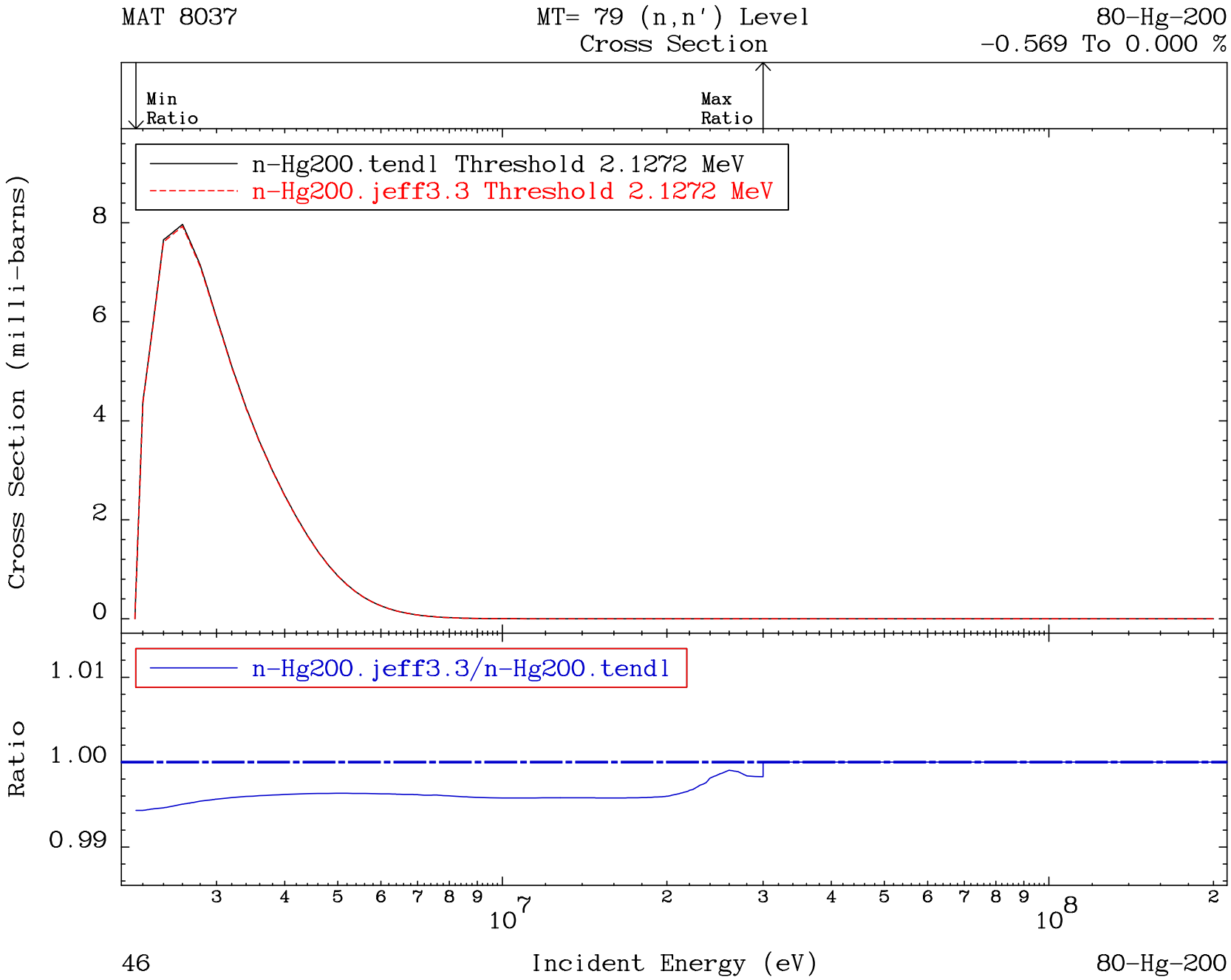

MAT 8037
MT= 74 (n,n') Level
Cross Section
80-Hg-200
-1.219 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.9843 MeV
n-Hg200.jeff3.3 Threshold 1.9843 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
41
Incident Energy (eV)
80-Hg-200

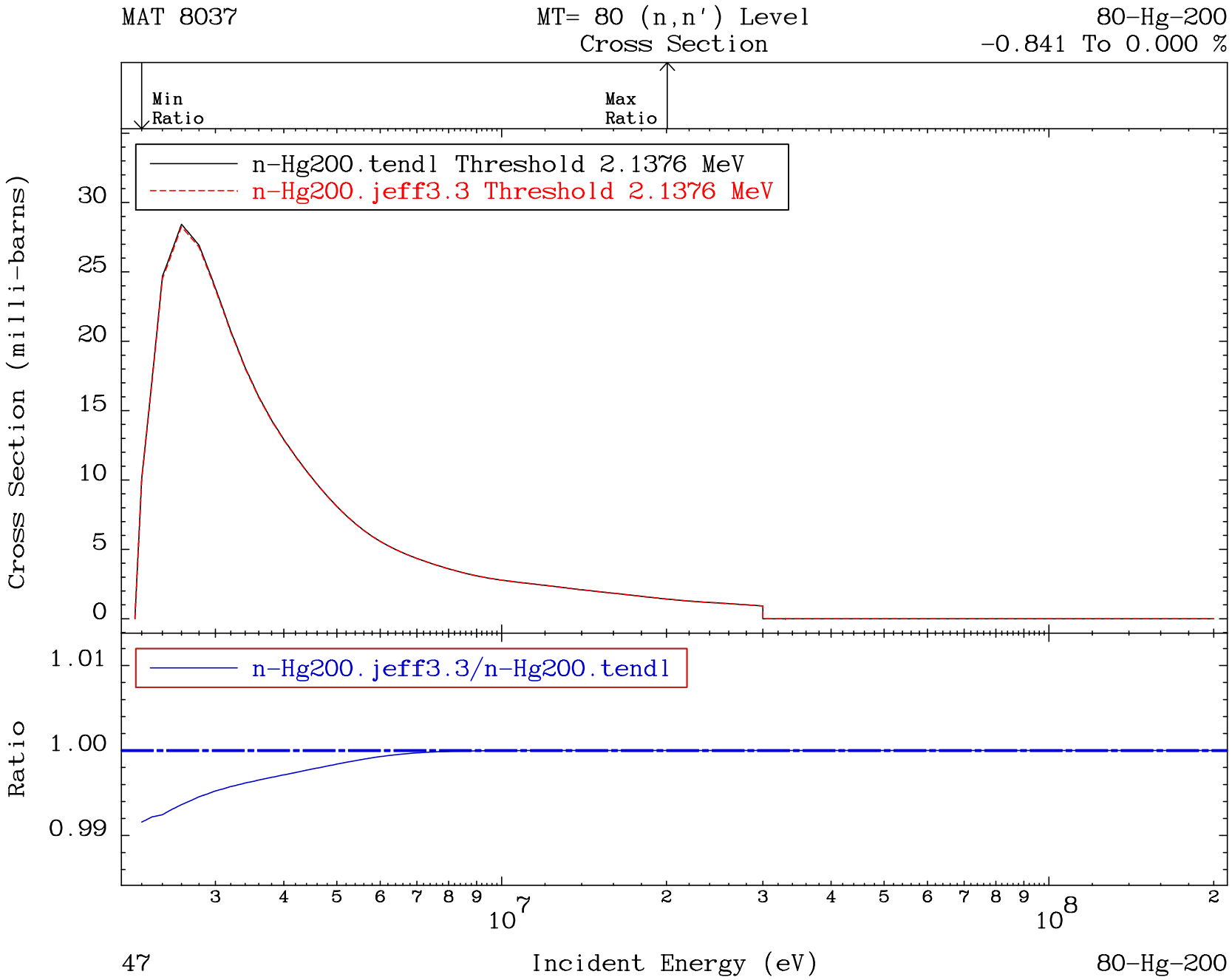

MAT 8037
MT= 75 (n,n') Level
Cross Section
80-Hg-200
-4.437 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 2.0592 MeV
n-Hg200.jeff3.3 Threshold 2.0592 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.98
0.96
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
42
Incident Energy (eV)
80-Hg-200

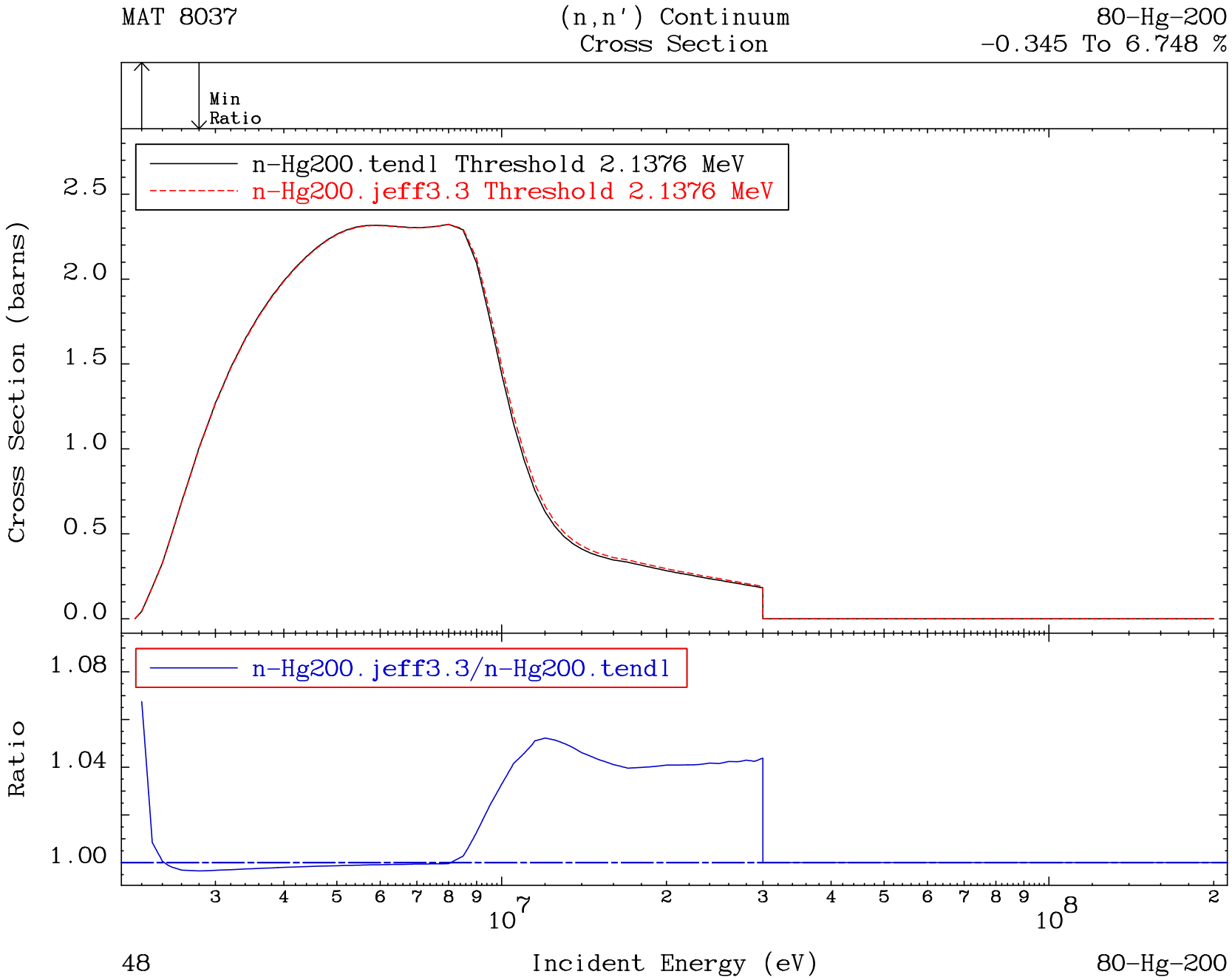

MAT 8037
MT= 76 (n,n') Level
Cross Section
80-Hg-200
-0.653 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 2.0717 MeV
n-Hg200.jeff3.3 Threshold 2.0717 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
80-Hg-200

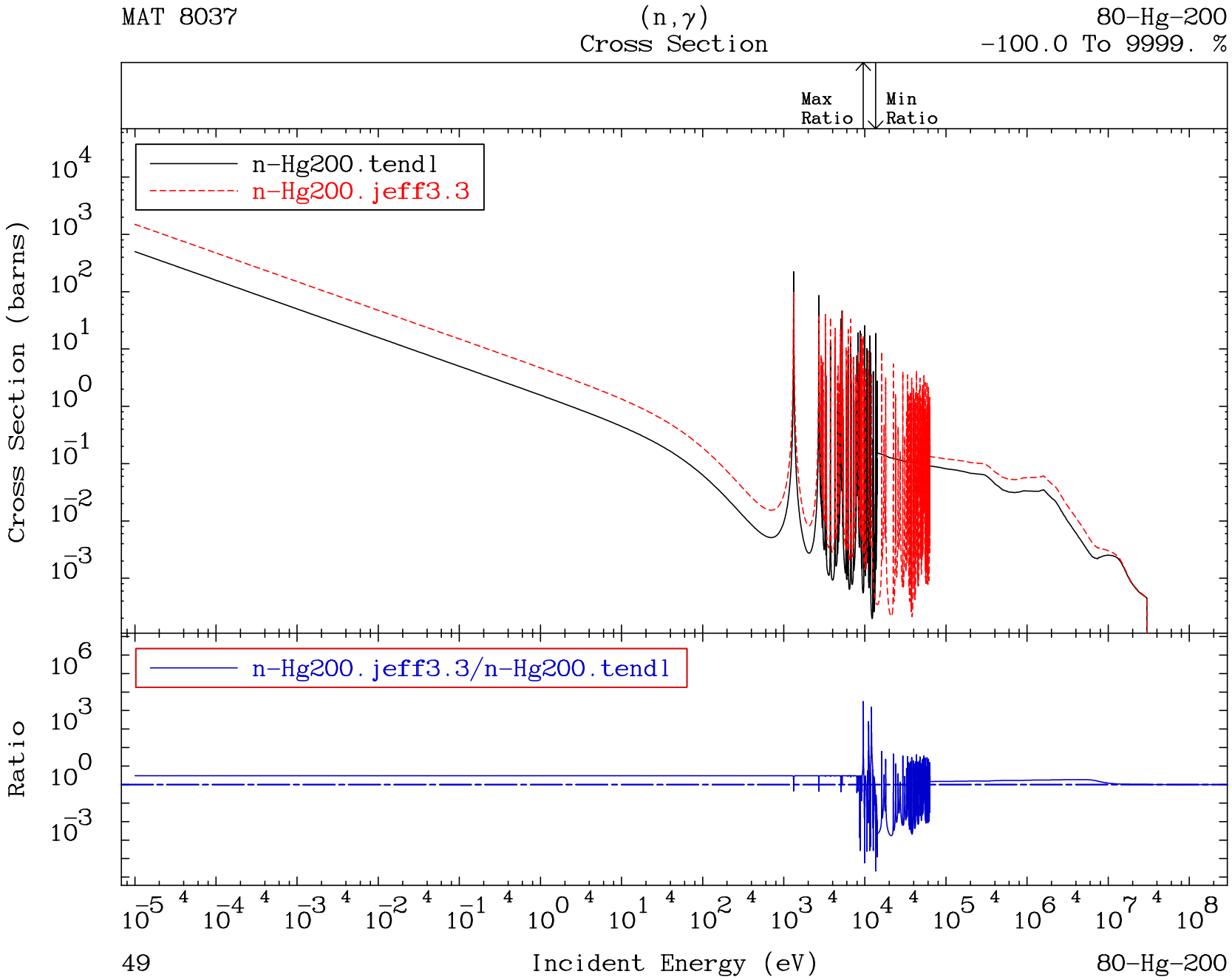

MAT 8037
MT= 77 (n,n') Level
Cross Section
80-Hg-200
-0.862 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 2.0848 MeV
n-Hg200.jeff3.3 Threshold 2.0848 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
80-Hg-200

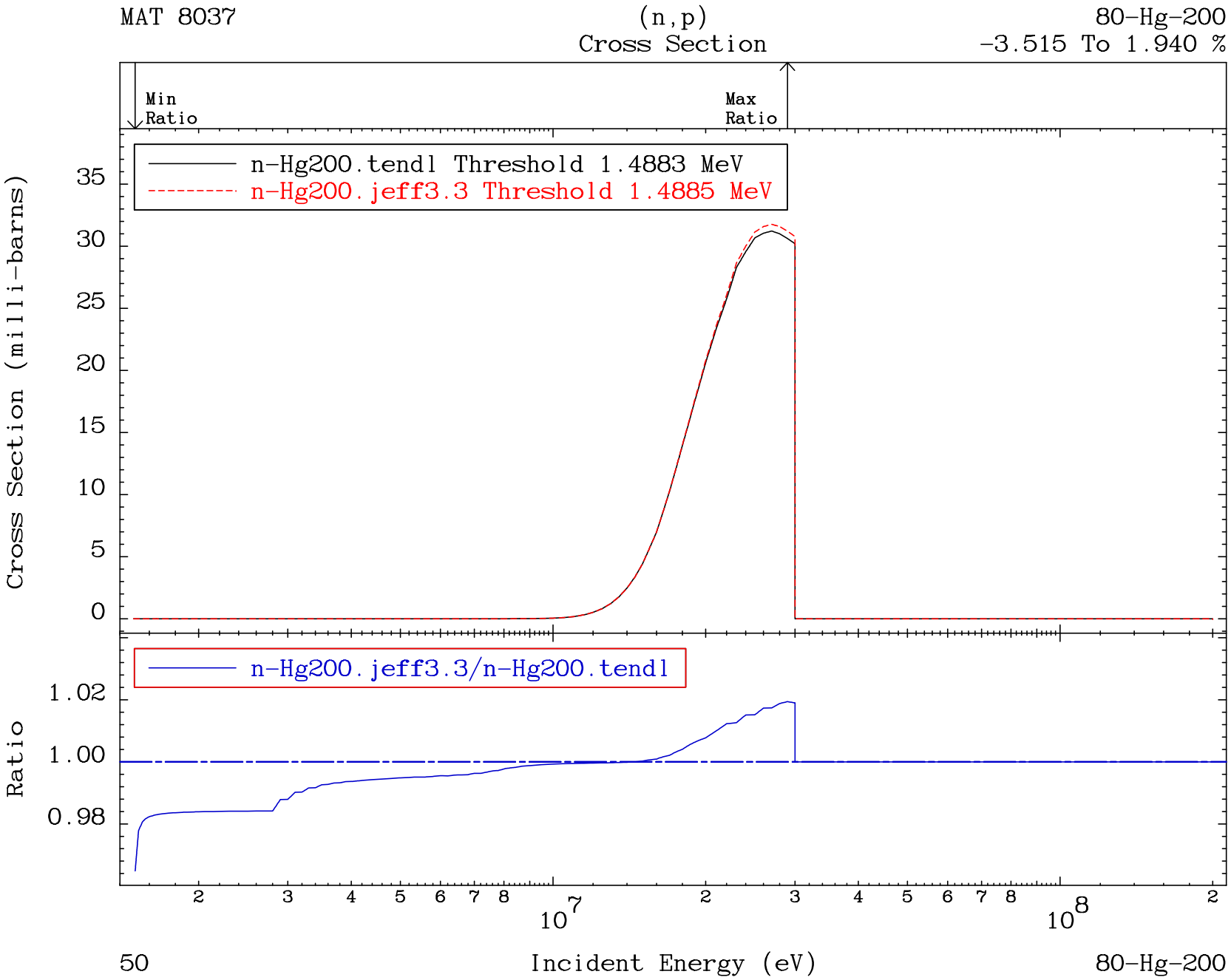

MAT 8037
MT= 78 (n,n') Level
Cross Section
80-Hg-200
-0.853 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 2.1250 MeV
n-Hg200.jeff3.3 Threshold 2.1250 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
80-Hg-200

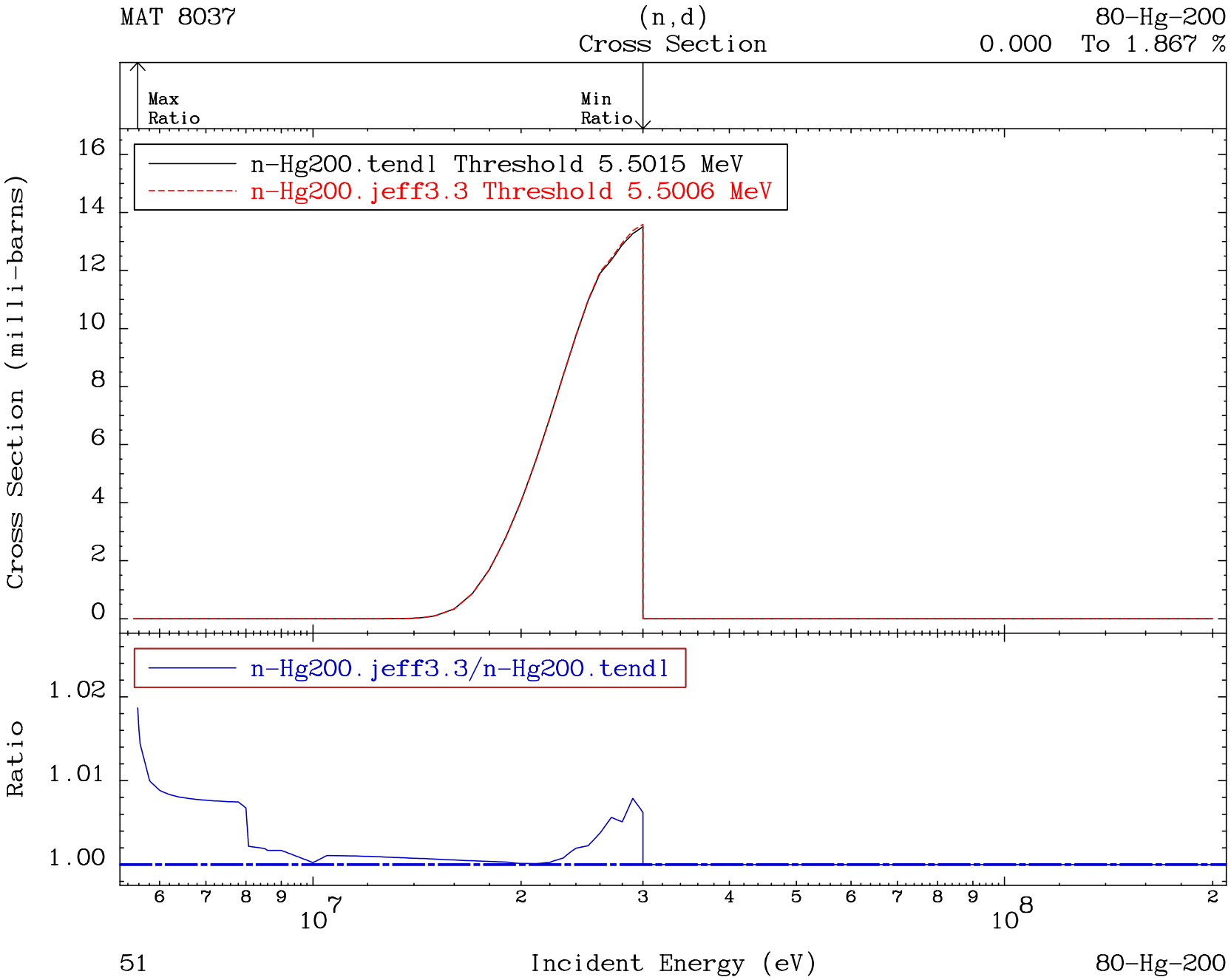

MAT 8037
MT= 79 (n,n') Level
Cross Section
80-Hg-200
-0.569 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 2.1272 MeV
n-Hg200.jeff3.3 Threshold 2.1272 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
0.99
1.00
1.01
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
46
80-Hg-200

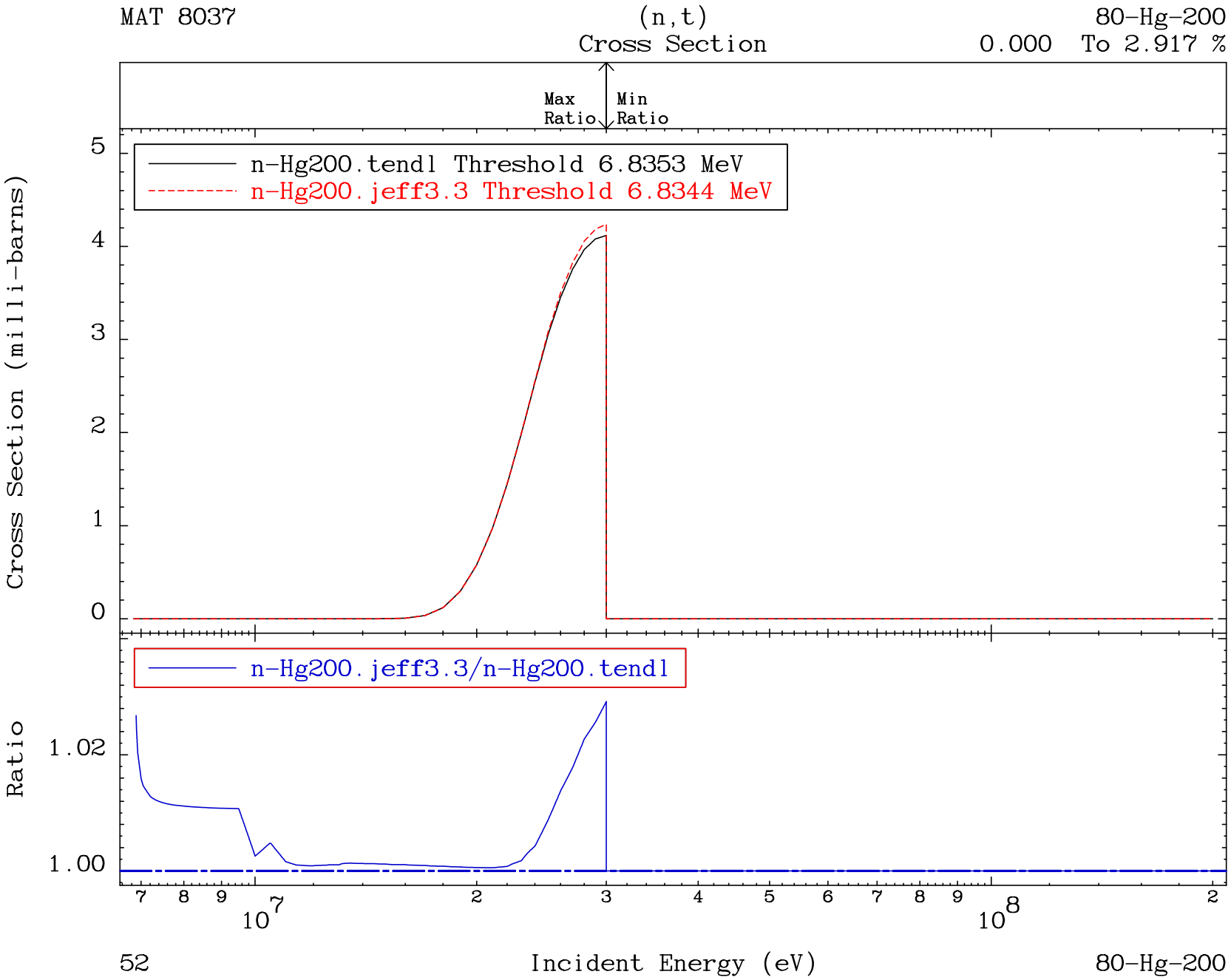

MAT 8037
MT= 80 (n,n') Level
Cross Section
80-Hg-200
-0.841 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 2.1376 MeV
n-Hg200.jeff3.3 Threshold 2.1376 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
47
Incident Energy (eV)
80-Hg-200

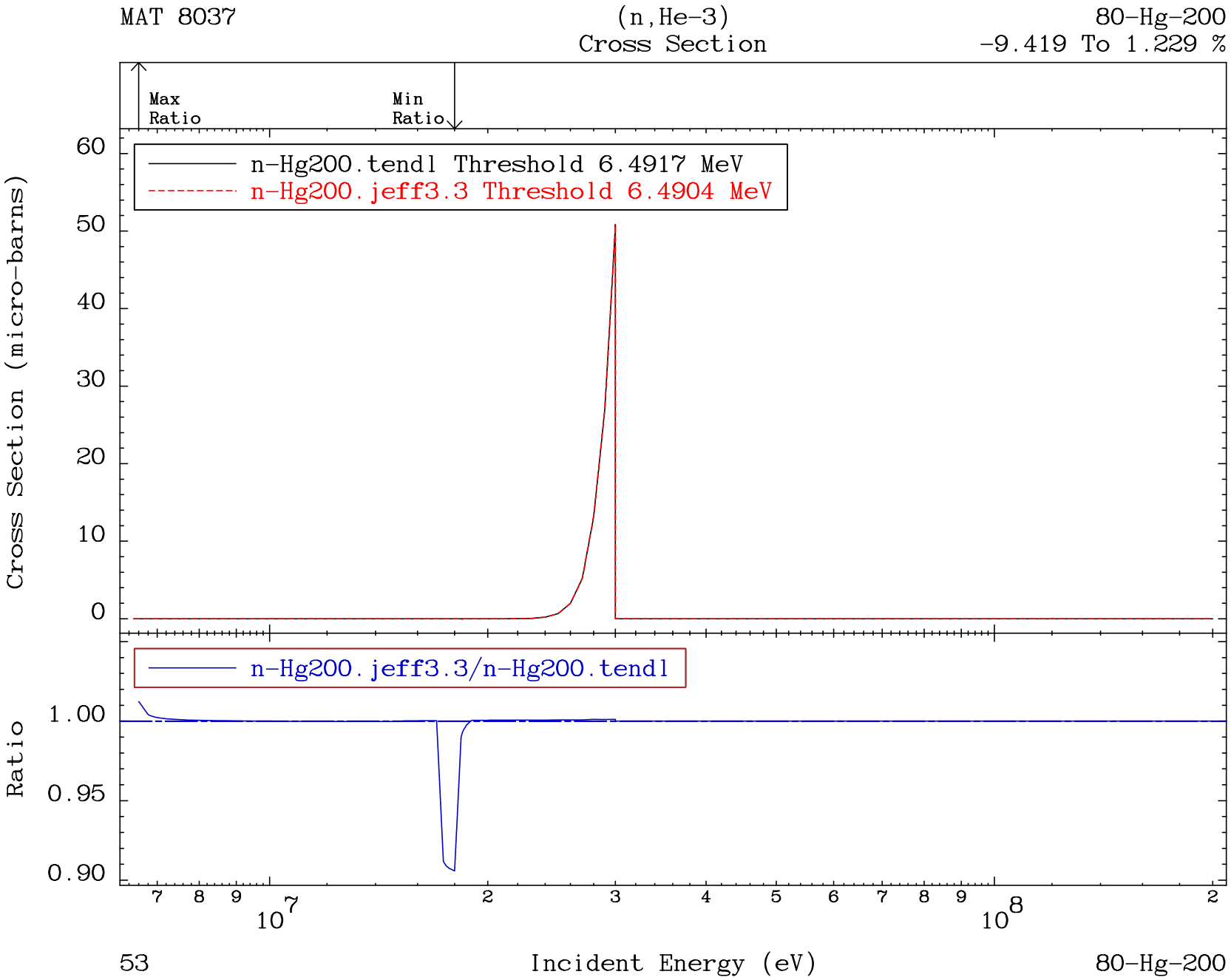

MAT 8037
(n,n') Continuum
Cross Section
80-Hg-200
-0.345 To 6.748 %
Min
Ratio
n-Hg200.tendl Threshold 2.1376 MeV
n-Hg200.jeff3.3 Threshold 2.1376 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.08
1.04
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
48
Incident Energy (eV)
80-Hg-200

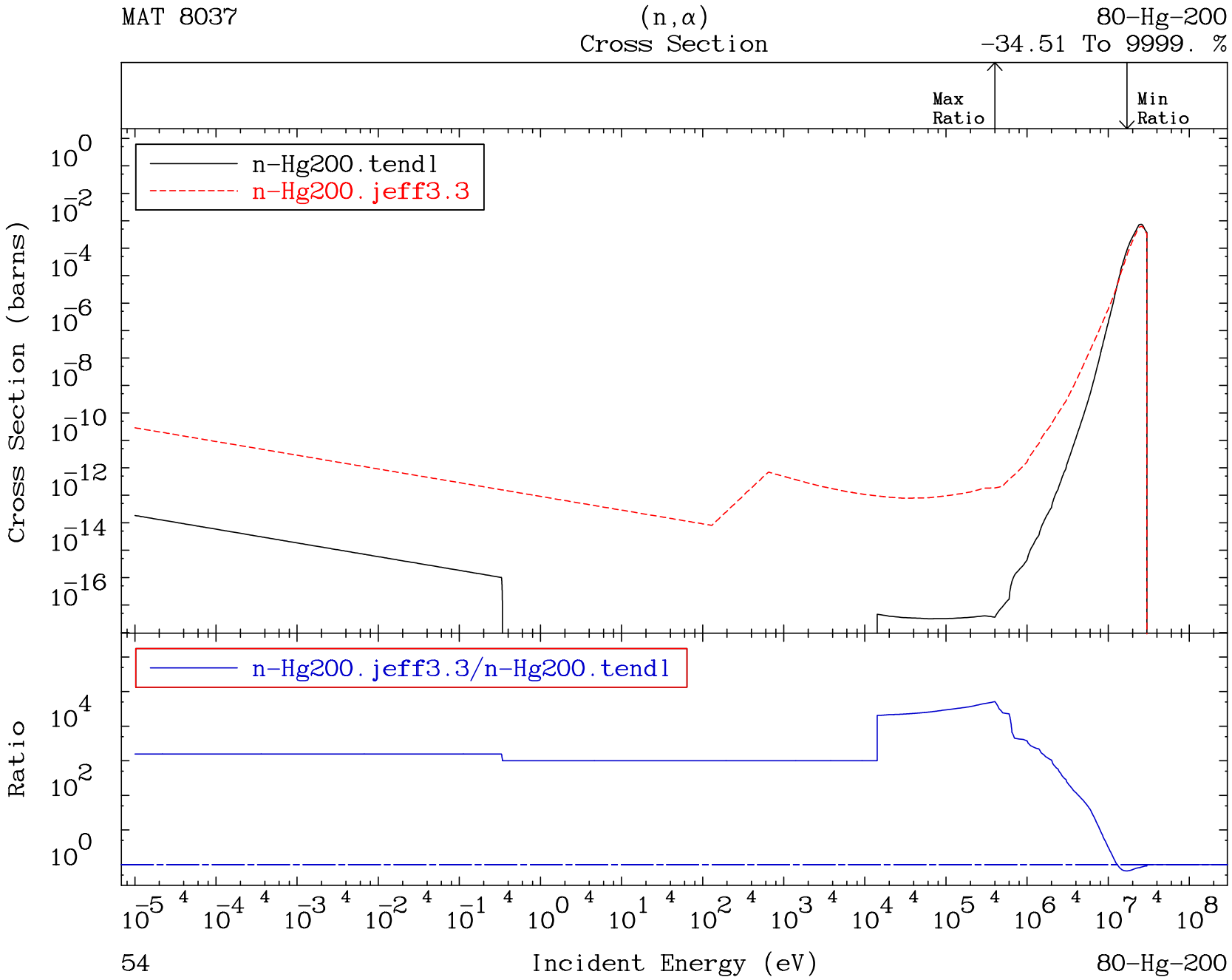

MAT 8037
(n,γ)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
Incident Energy (eV)
49
80-Hg-200

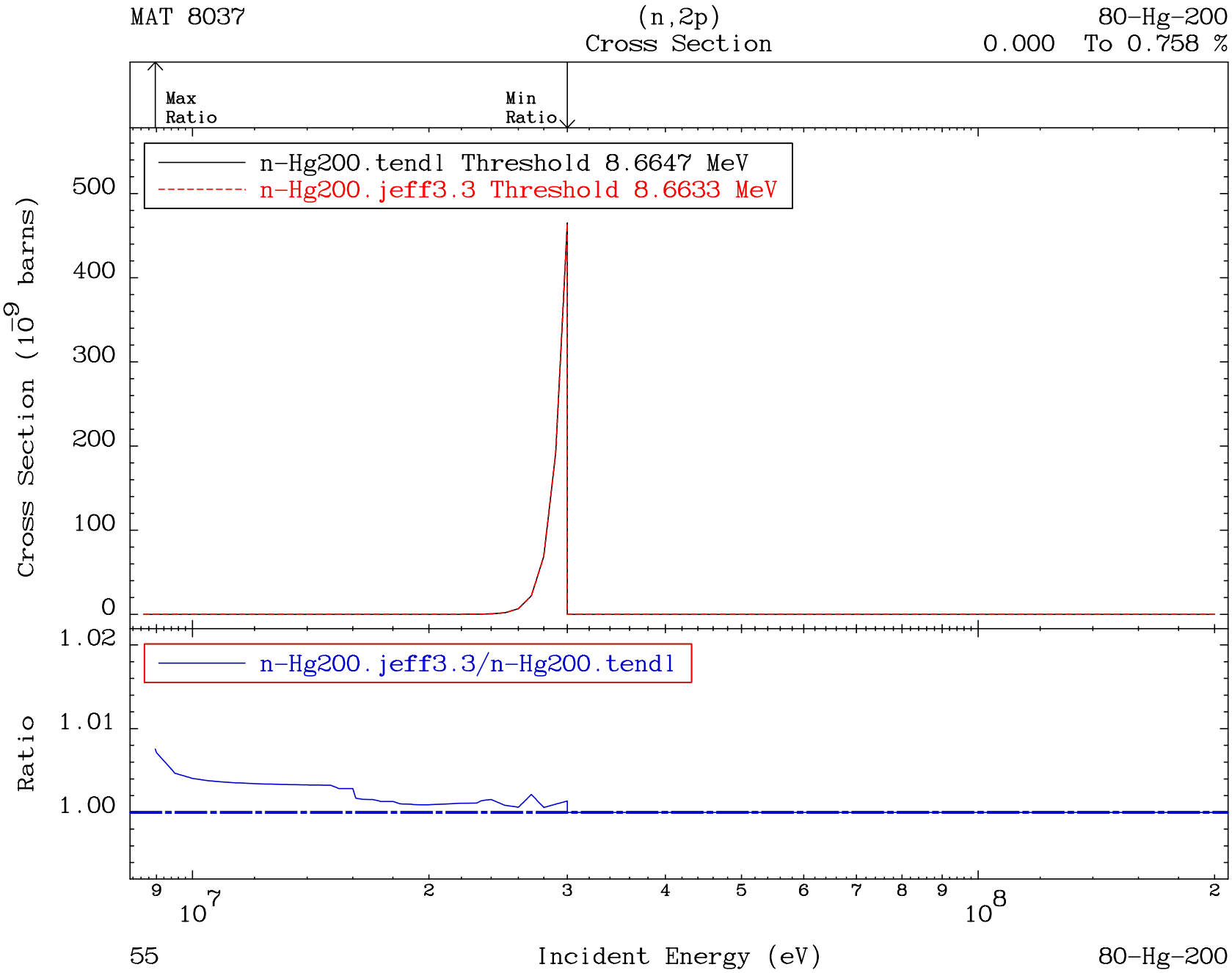

MAT 8037
(n,p)
Cross Section
80-Hg-200
-3.515 To 1.940 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.4883 MeV
n-Hg200.jeff3.3 Threshold 1.4885 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.02
1.00
0.98
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
50
Incident Energy (eV)
80-Hg-200

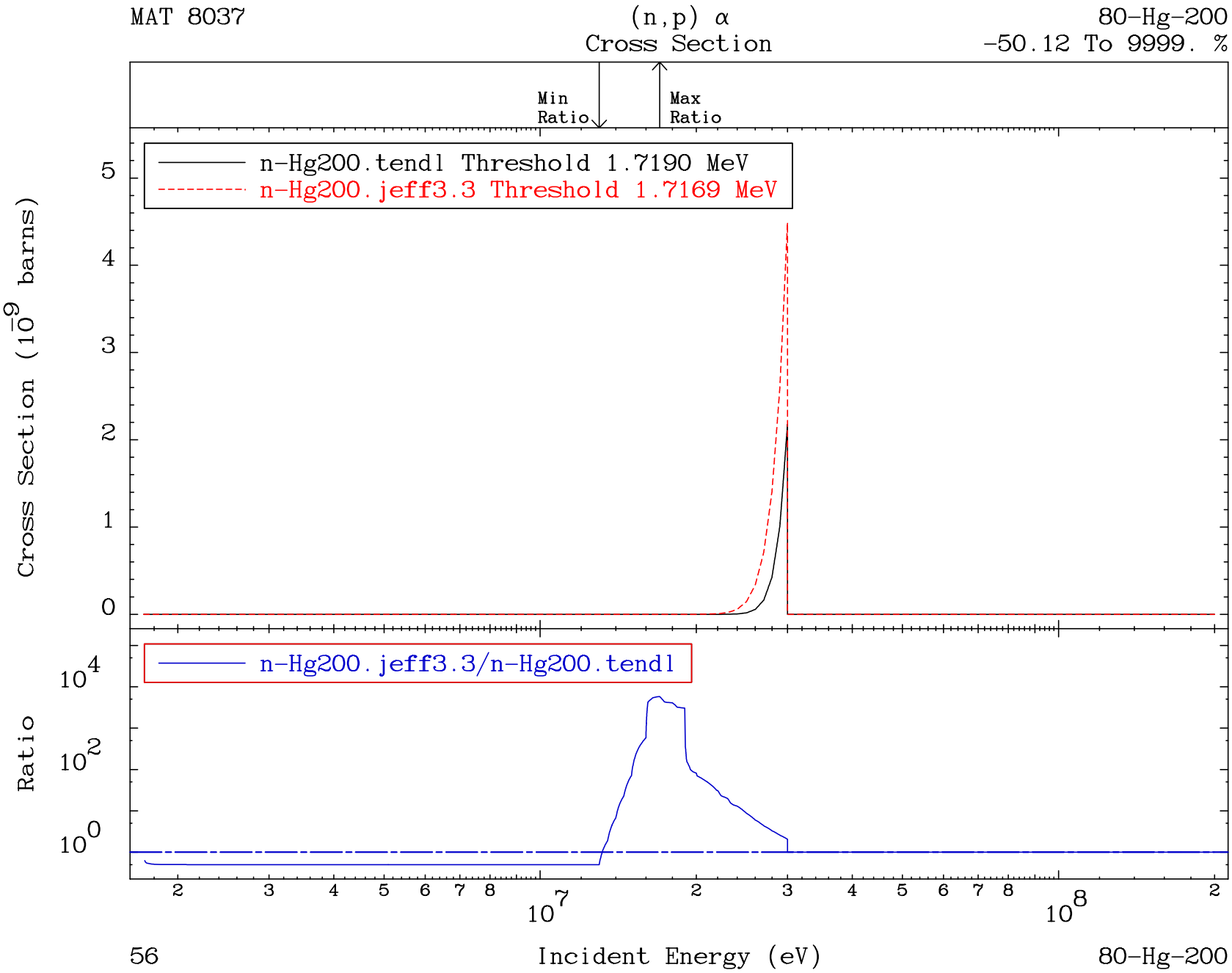

MAT 8037
(n,d)
Cross Section
80-Hg-200
0.000 To 1.867 %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 5.5015 MeV
n-Hg200.jeff3.3 Threshold 5.5006 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.02
1.01
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
80-Hg-200

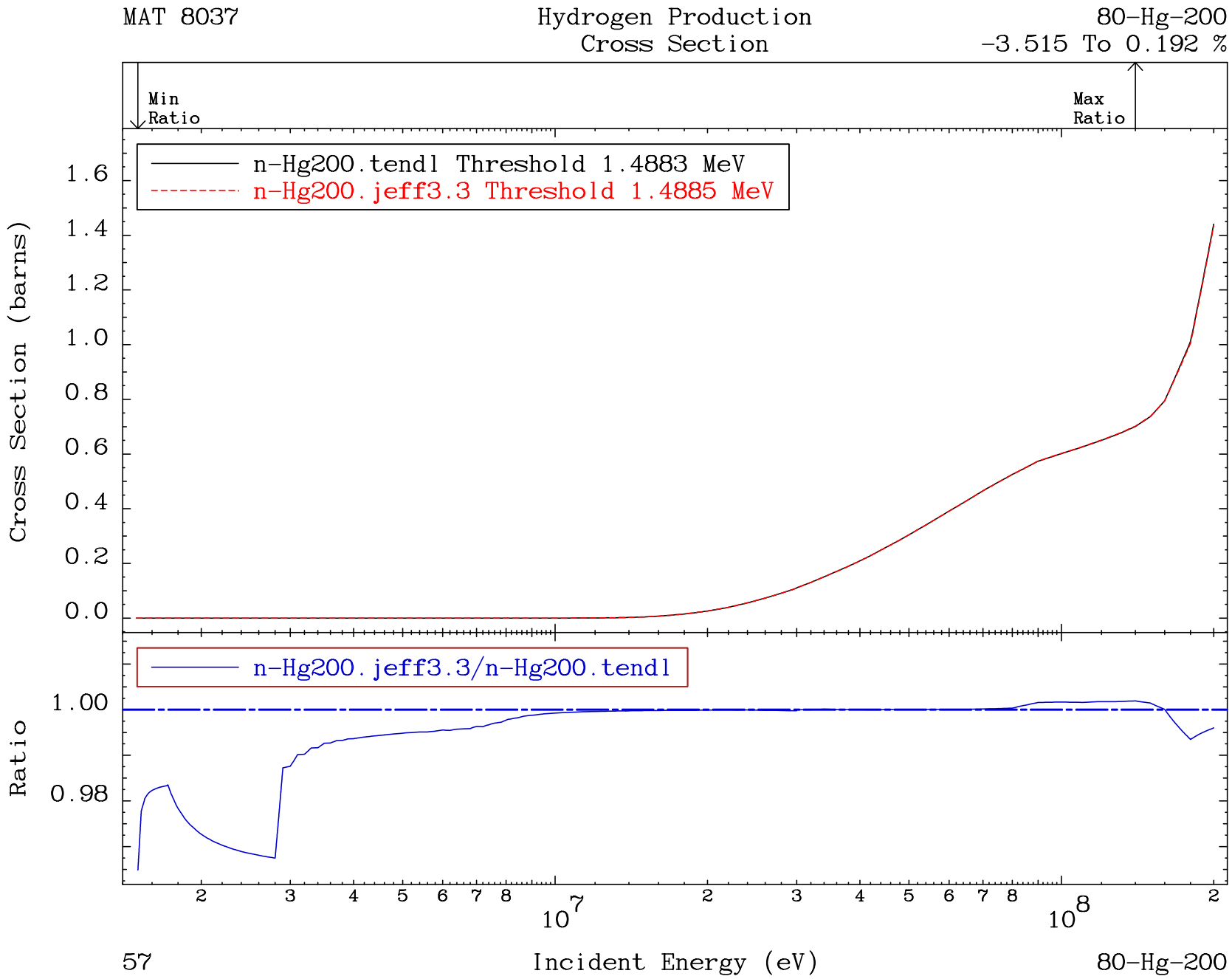

MAT 8037
(n,t)
Cross Section
80-Hg-200
0.000 To 2.917 %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 6.8353 MeV
n-Hg200.jeff3.3 Threshold 6.8344 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
1.02
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
80-Hg-200

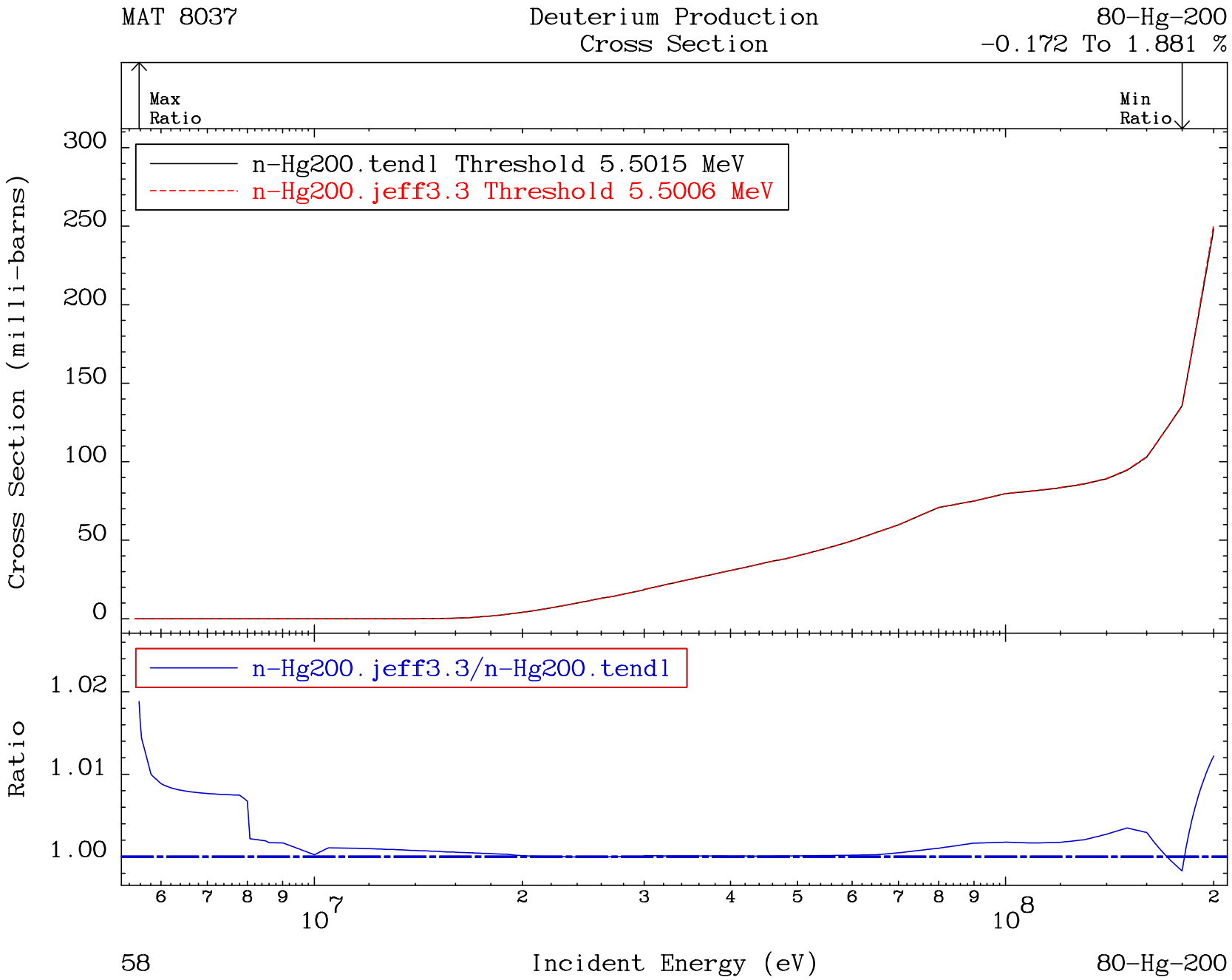

MAT 8037
(n,He-3)
Cross Section
80-Hg-200
-9.419 To 1.229 %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 6.4917 MeV
n-Hg200.jeff3.3 Threshold 6.4904 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.95
0.90
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
80-Hg-200

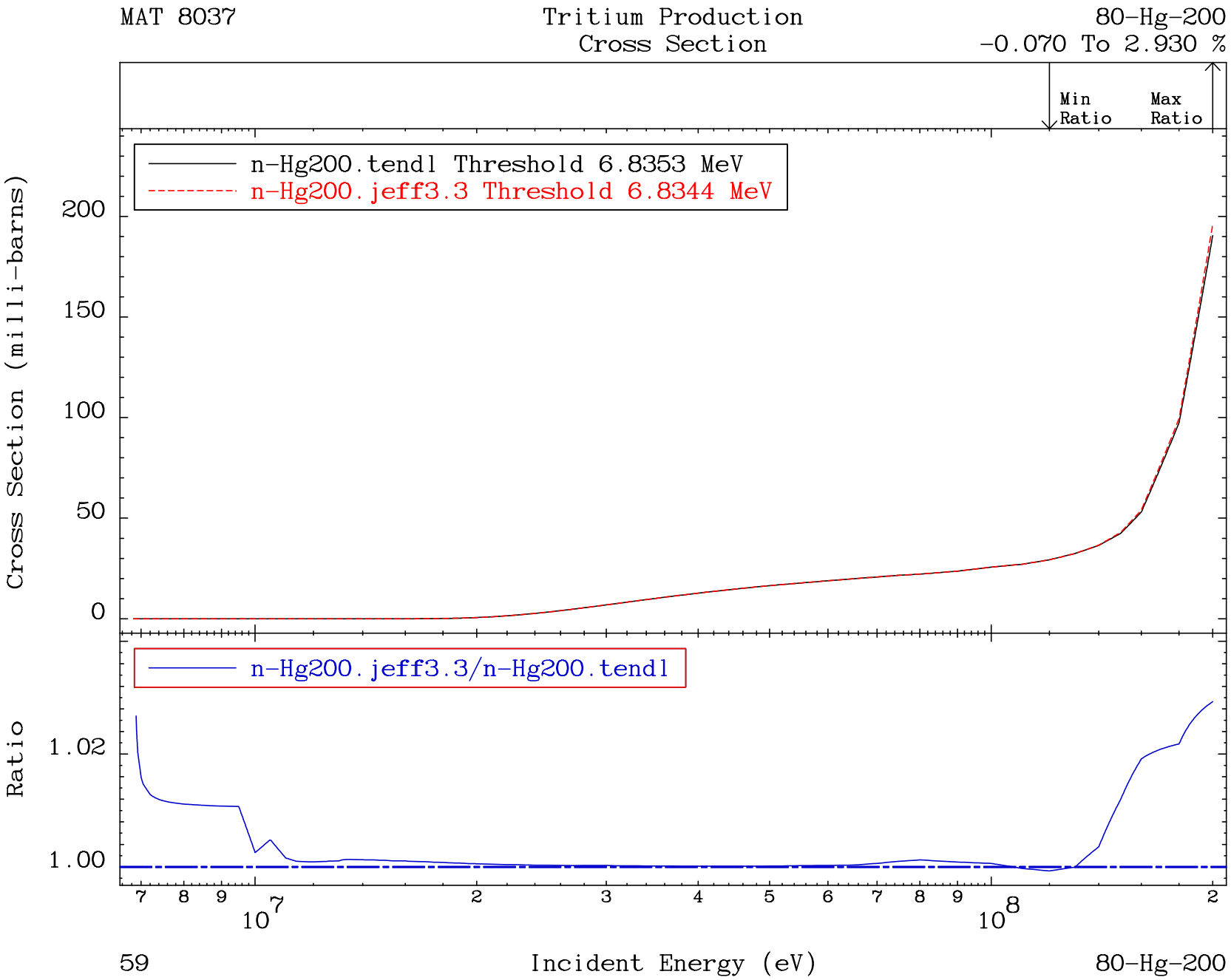

MAT 8037
(n,α)
Cross Section
80-Hg-200
-34.51 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
54
Incident Energy (eV)
80-Hg-200

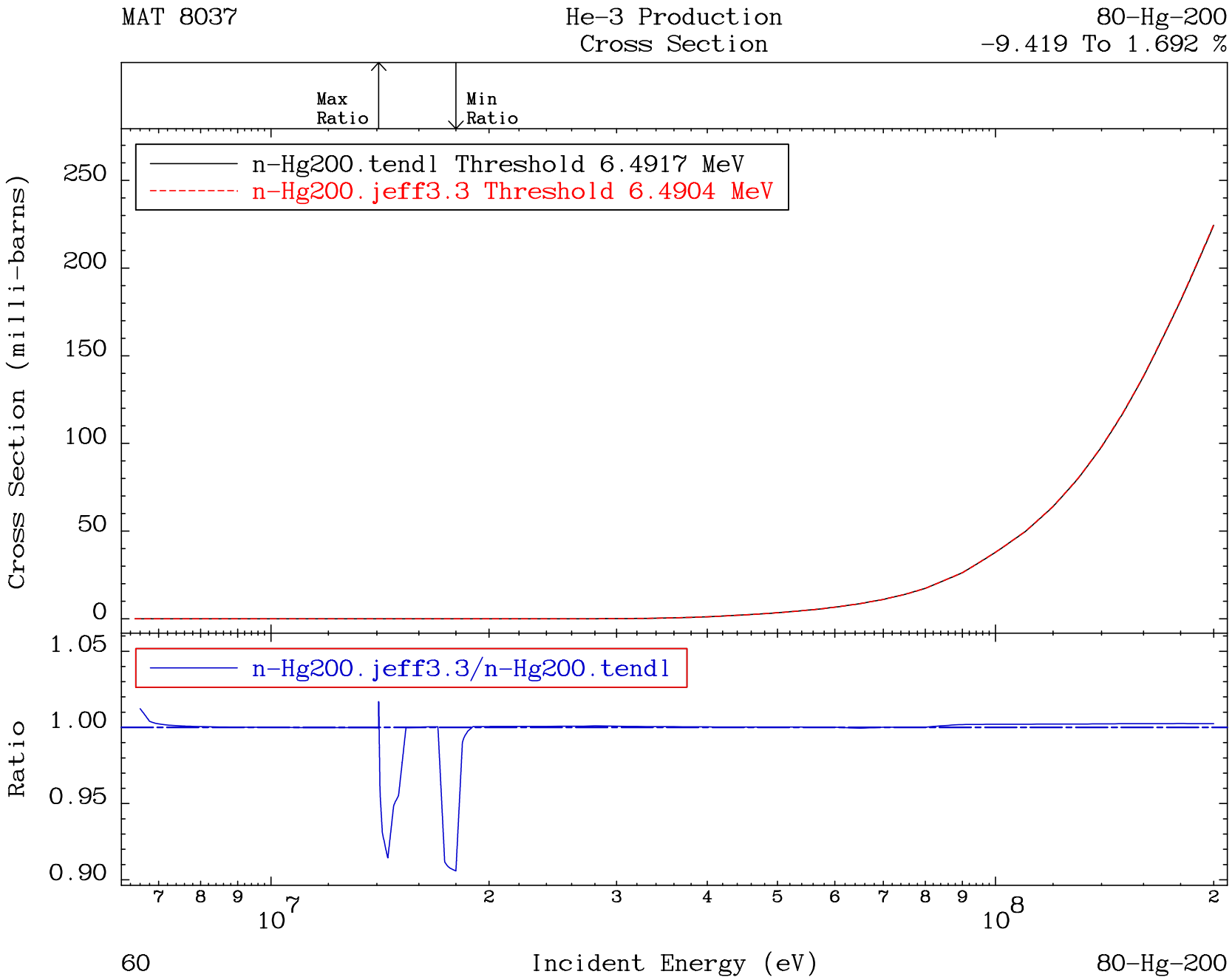

MAT 8037
(n,2p)
Cross Section
80-Hg-200
0.000 To 0.758 %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 8.6647 MeV
n-Hg200.jeff3.3 Threshold 8.6633 MeV
Cross Section (10^{-9} barns)
500
400
300
200
100
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.02
1.01
1.00
9
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
55
Incident Energy (eV)
80-Hg-200

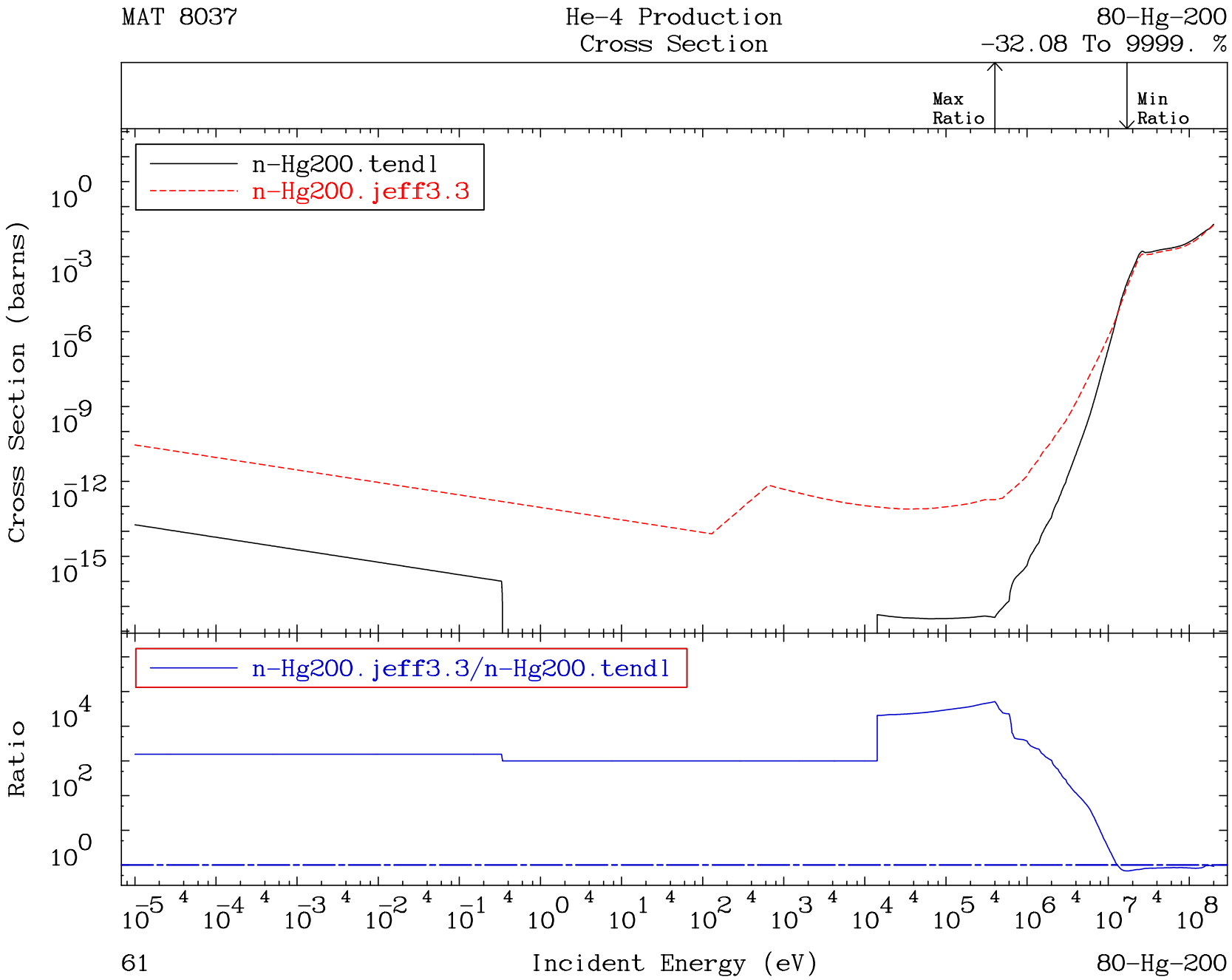

MAT 8037
(n,p) α
Cross Section
80-Hg-200
-50.12 To 9999. %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.7190 MeV
n-Hg200.jeff3.3 Threshold 1.7169 MeV
Cross Section (10^-9 barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
Incident Energy (eV)
56
80-Hg-200

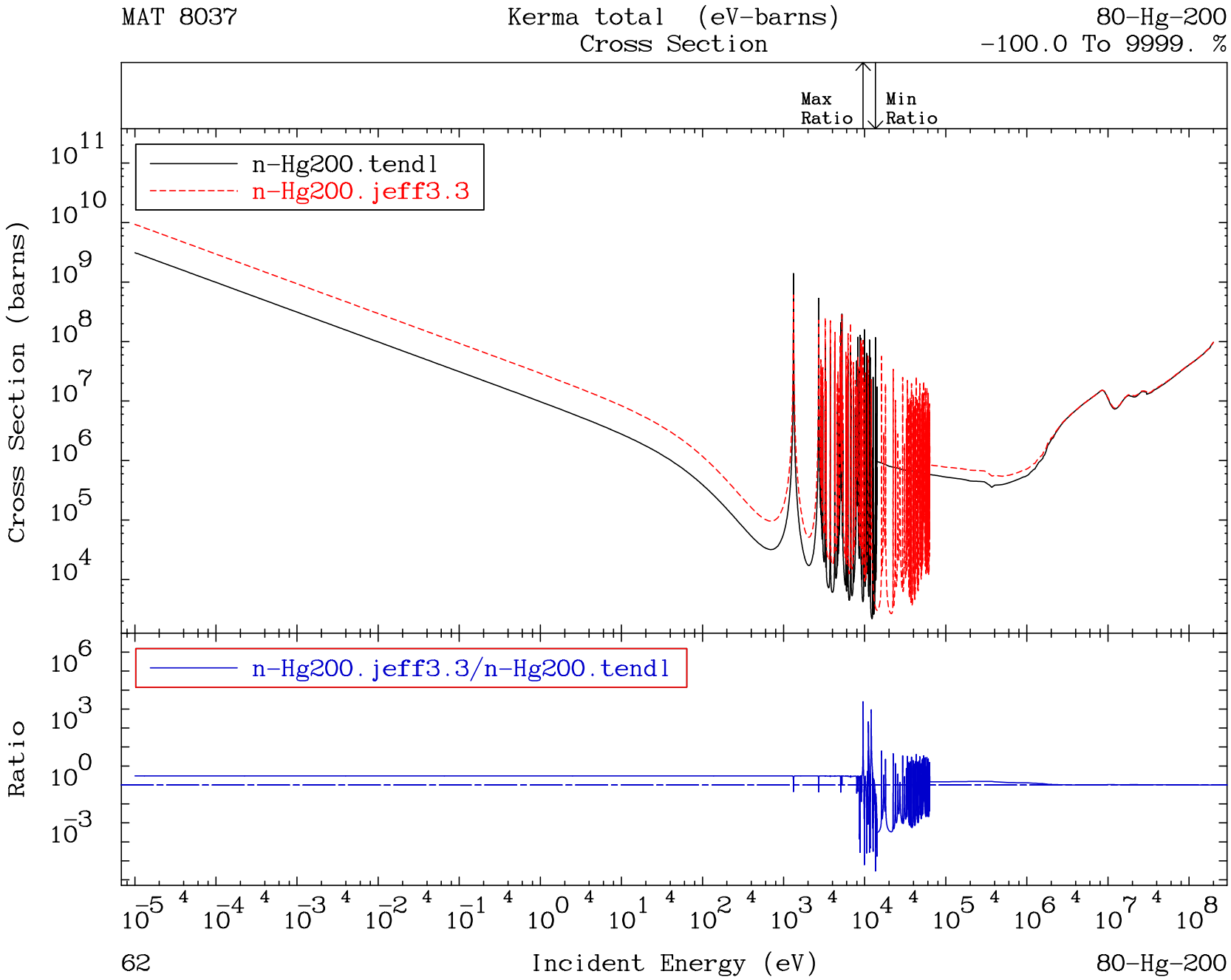

MAT 8037
Hydrogen Production
Cross Section
80-Hg-200
-3.515 To 0.192 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.4883 MeV
n-Hg200.jeff3.3 Threshold 1.4885 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.98
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
57
Incident Energy (eV)
80-Hg-200

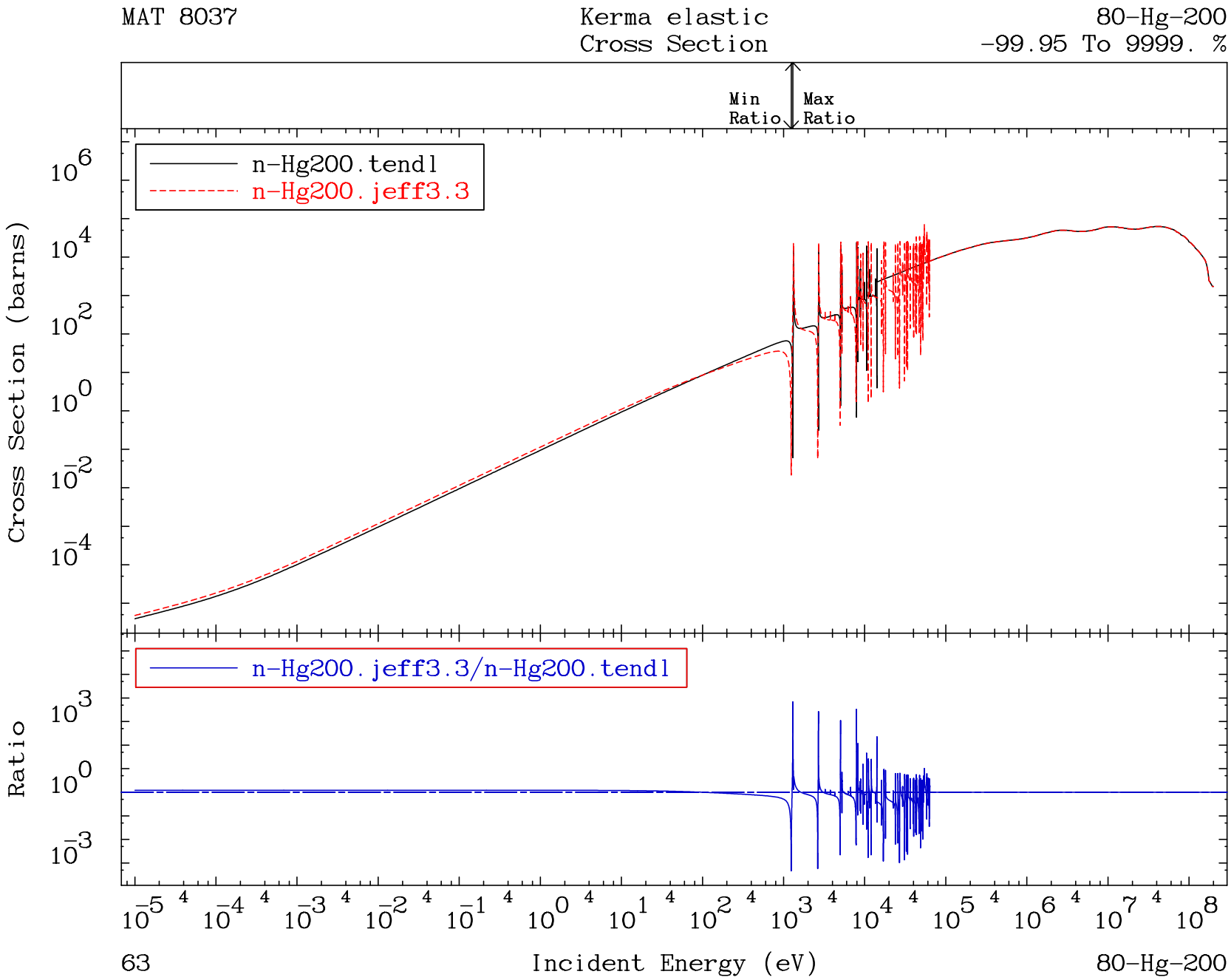

MAT 8037
Deuterium Production
Cross Section
80-Hg-200
-0.172 To 1.881 %
Max
Ratio
Min
Ratio
n-Hg200.tendl Threshold 5.5015 MeV
n-Hg200.jeff3.3 Threshold 5.5006 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.02
1.01
1.00
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
58
Incident Energy (eV)
80-Hg-200

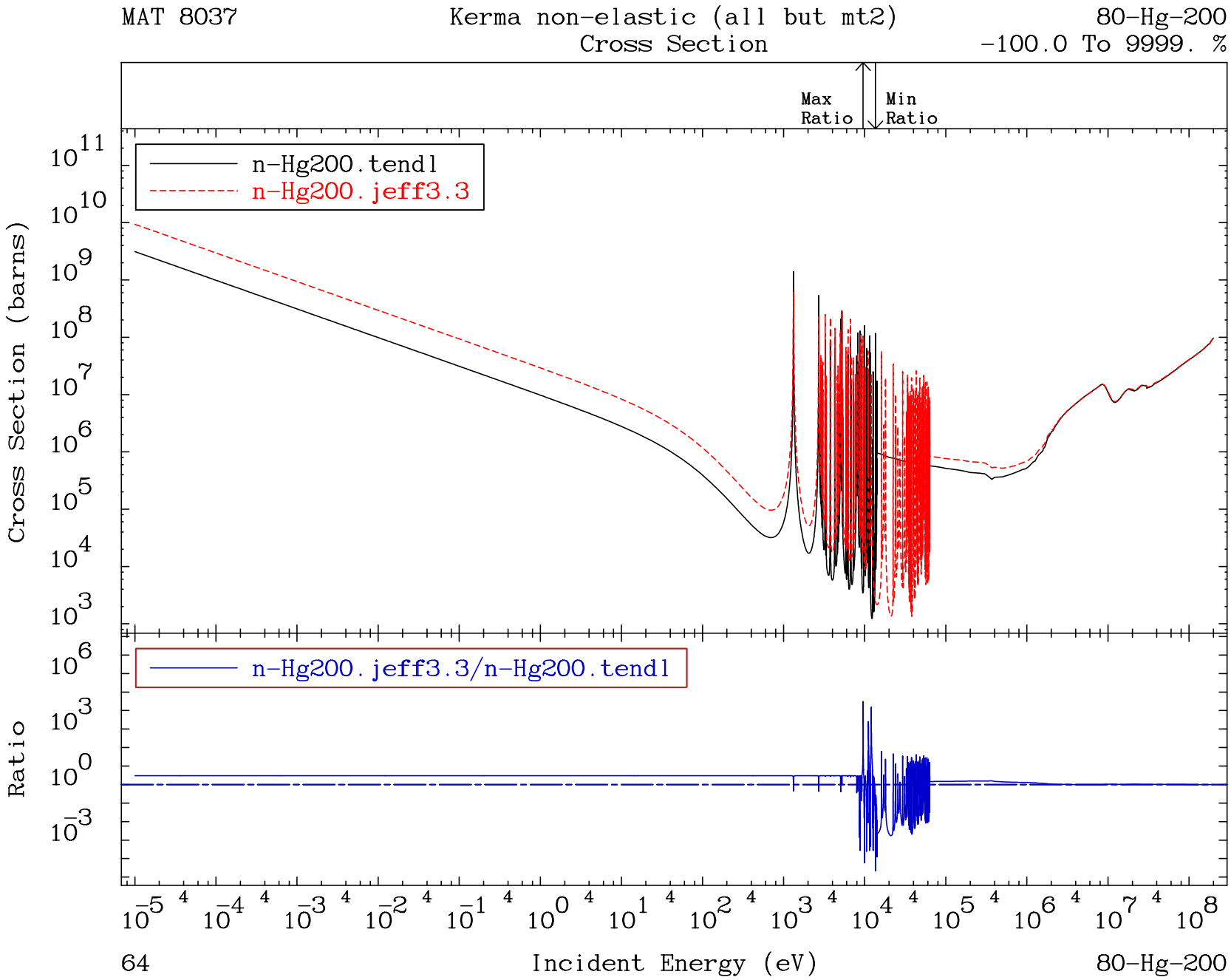

MAT 8037
Tritium Production
Cross Section
80-Hg-200
-0.070 To 2.930 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 6.8353 MeV
n-Hg200.jeff3.3 Threshold 6.8344 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.02
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
59
Incident Energy (eV)
80-Hg-200

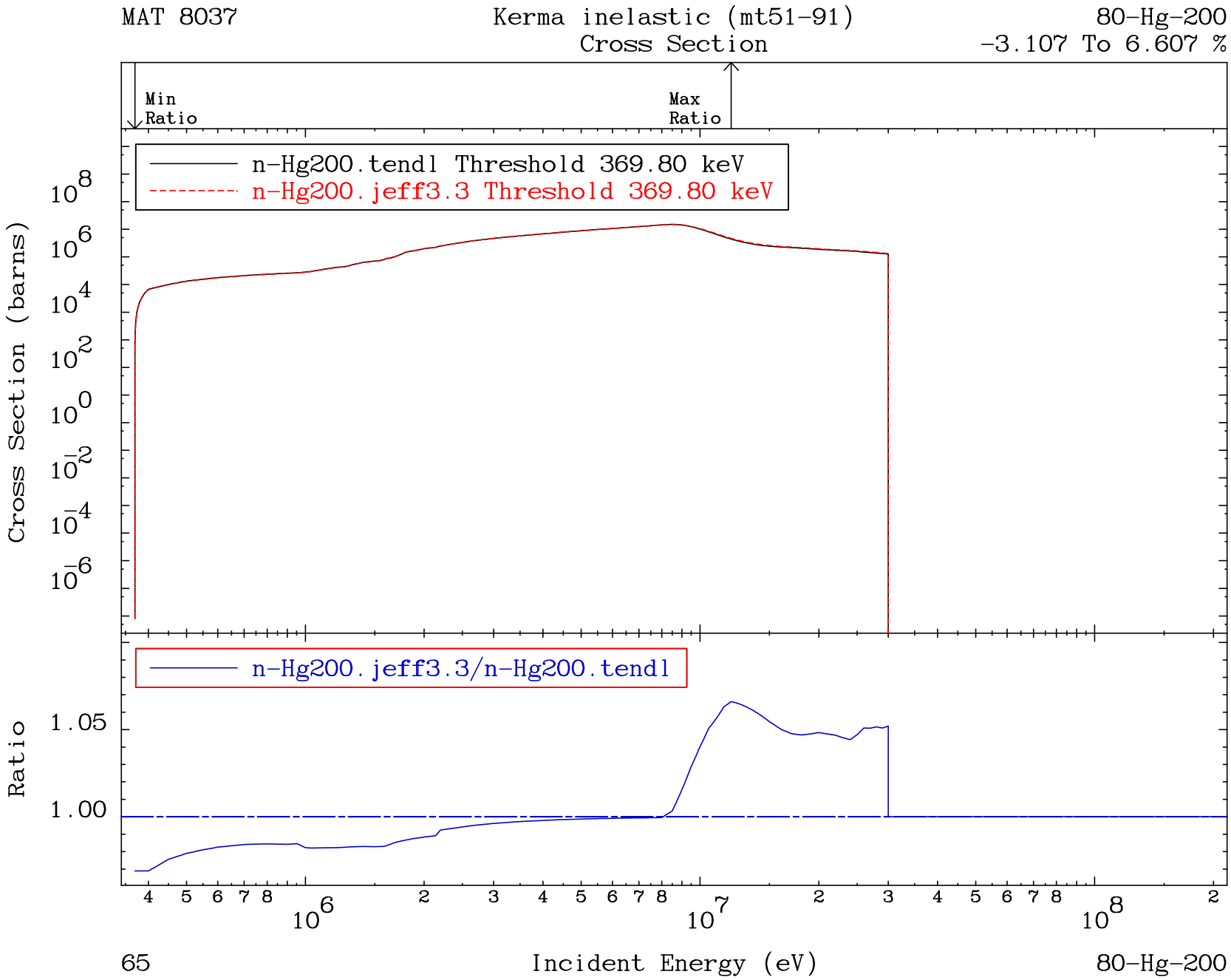

MAT 8037
He-3 Production
Cross Section
80-Hg-200
-9.419 To 1.692 %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 6.4917 MeV
n-Hg200.jeff3.3 Threshold 6.4904 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.05
1.00
0.95
0.90
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
60
Incident Energy (eV)
80-Hg-200

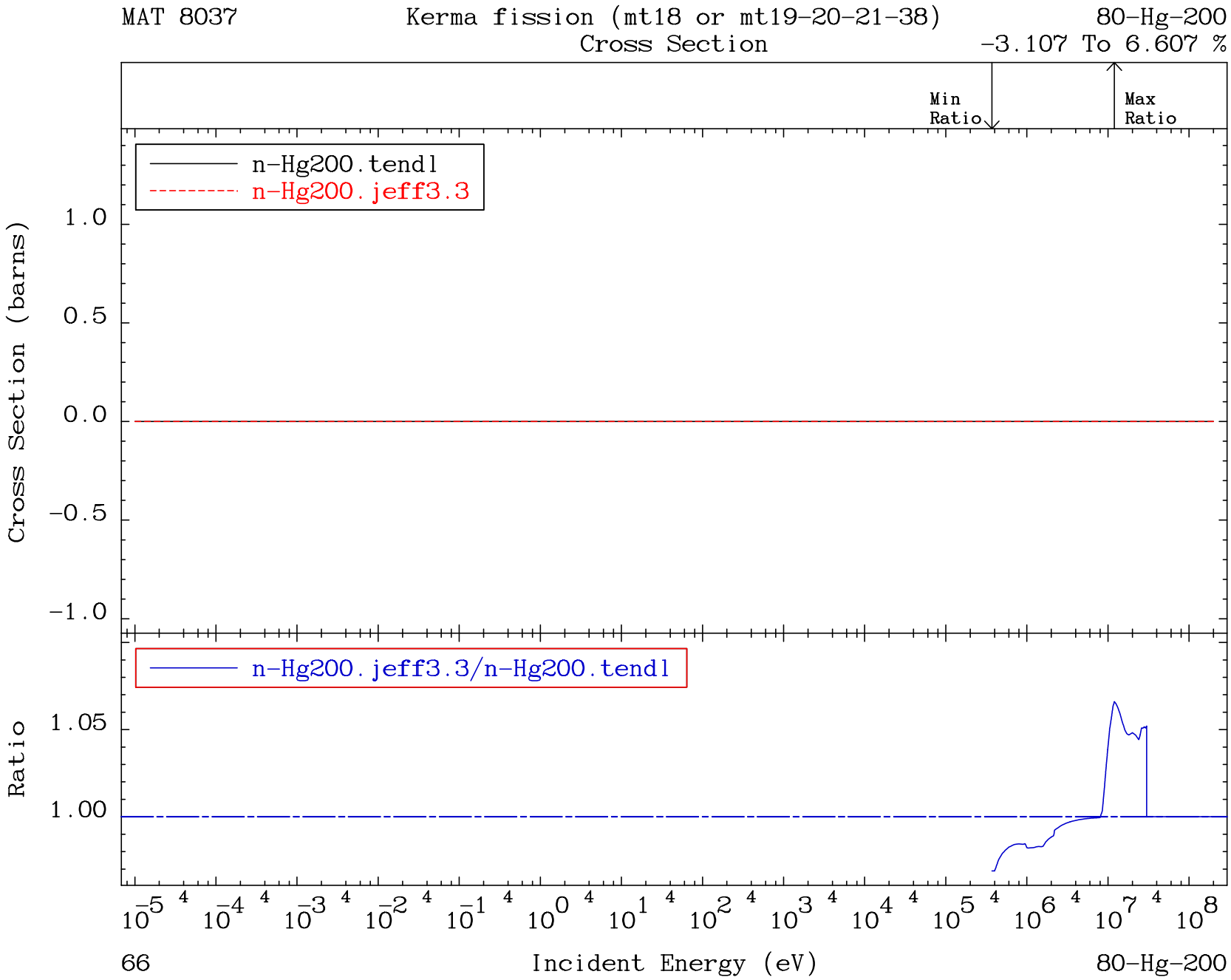

MAT 8037
He-4 Production
Cross Section
80-Hg-200
-32.08 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
10^0
10^-3
10^-6
10^-9
10^-12
10^-15
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
10^4
10^2
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
61
Incident Energy (eV)
80-Hg-200

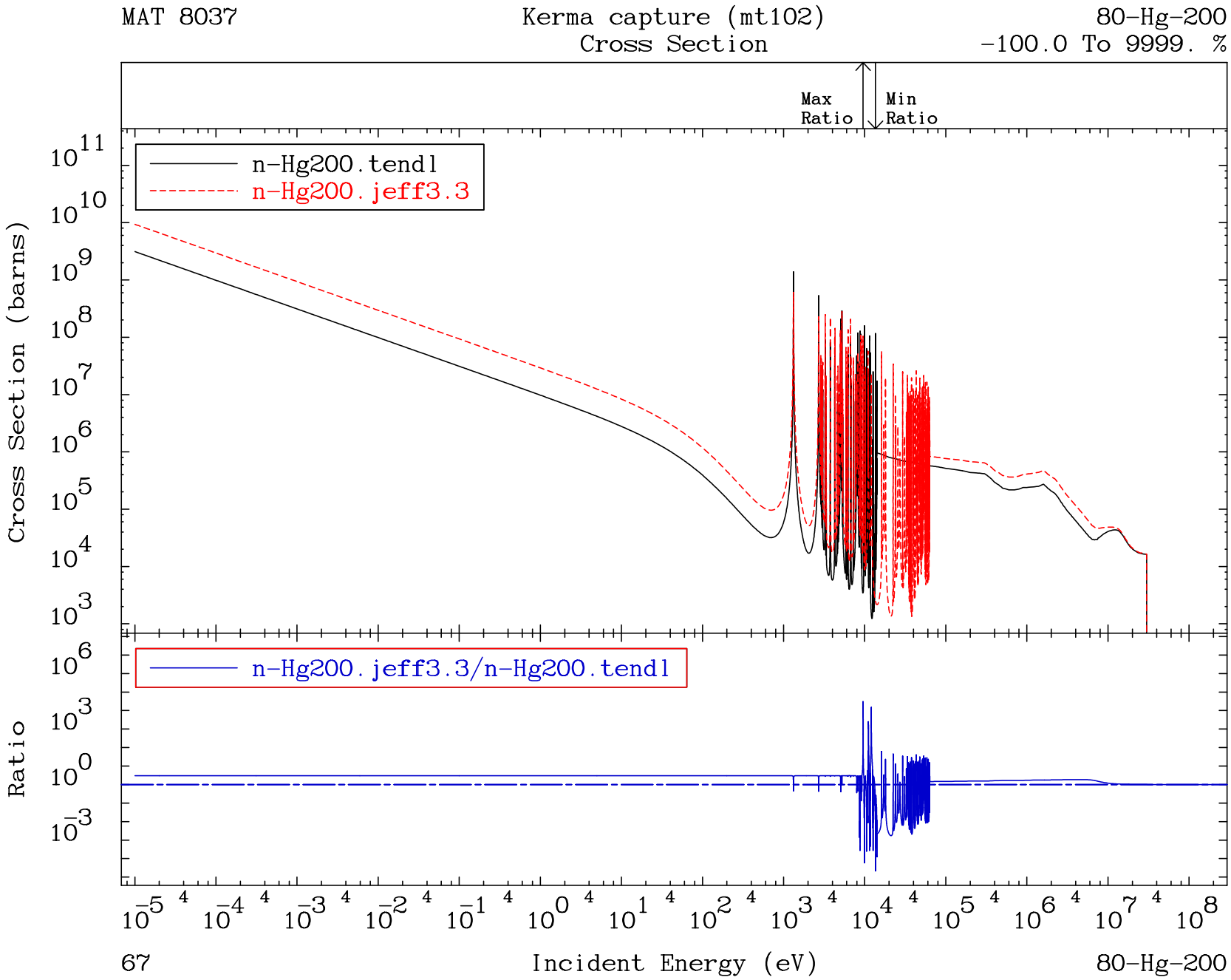

MAT 8037
Kerma total (eV-barns)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
62
Incident Energy (eV)
80-Hg-200

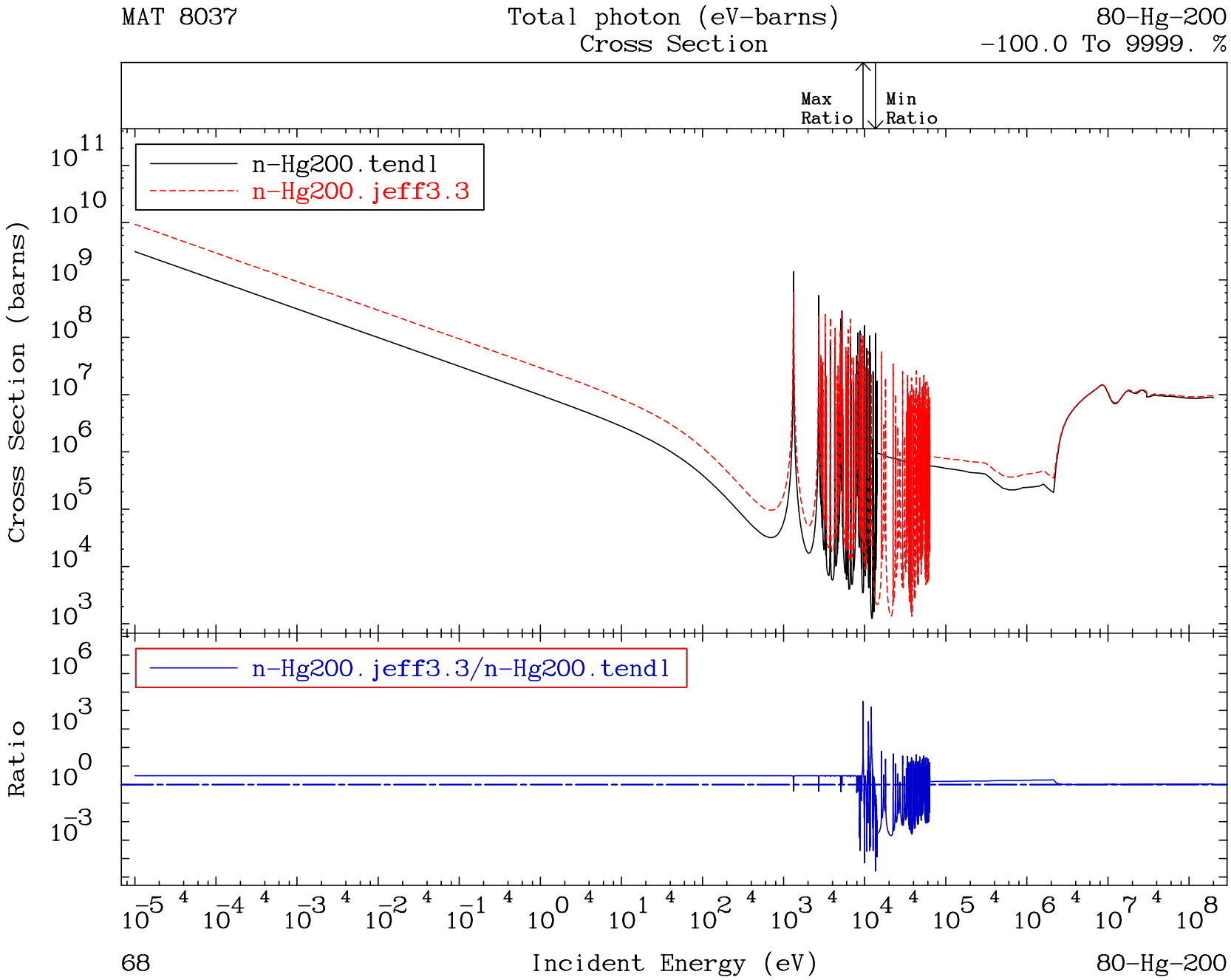

MAT 8037
Kerma elastic
Cross Section
80-Hg-200
-99.95 To 9999. %
Min Ratio
Max Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
Incident Energy (eV)
63
80-Hg-200

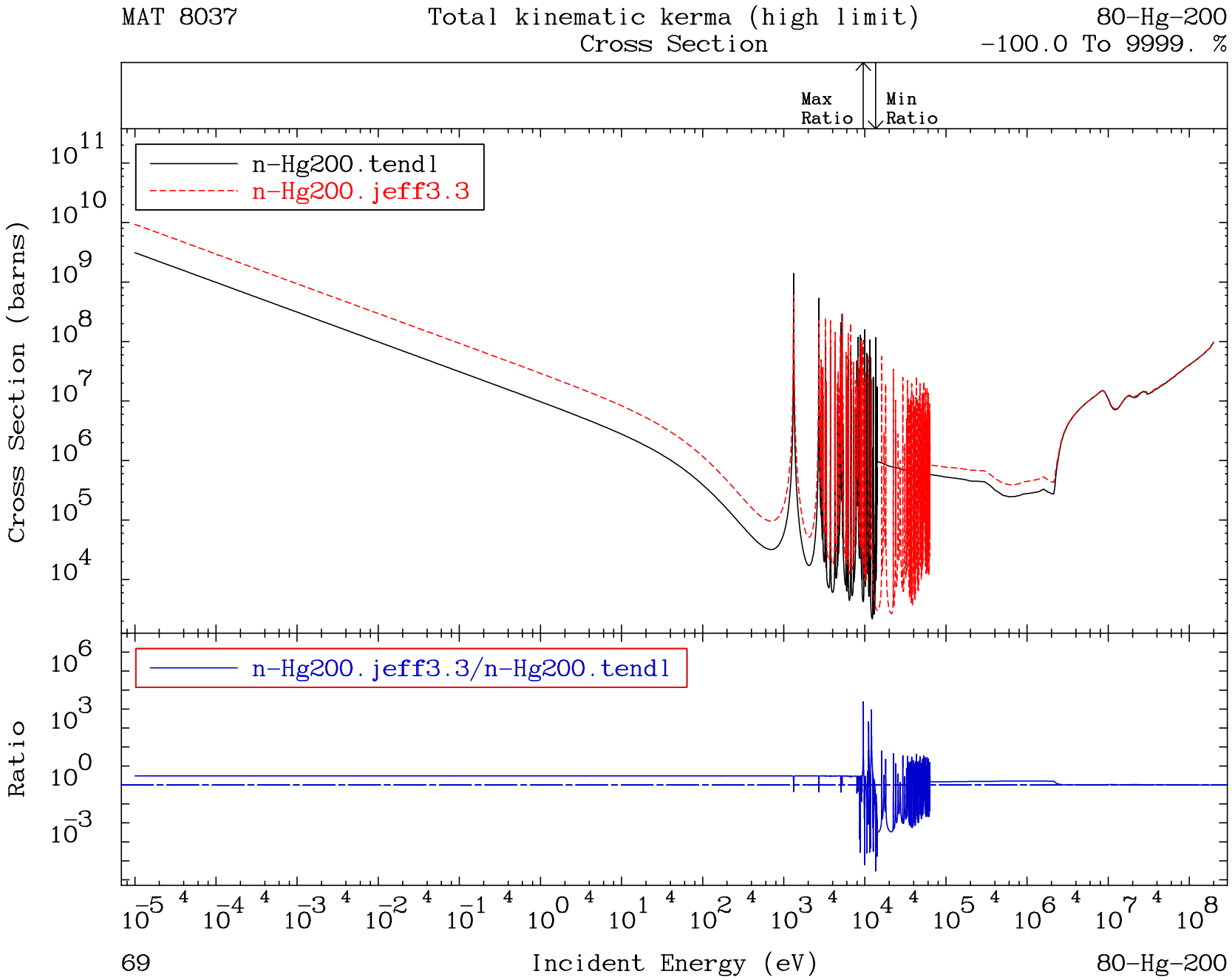

MAT 8037
Kerma non-elastic (all but mt2)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
64
Incident Energy (eV)
80-Hg-200

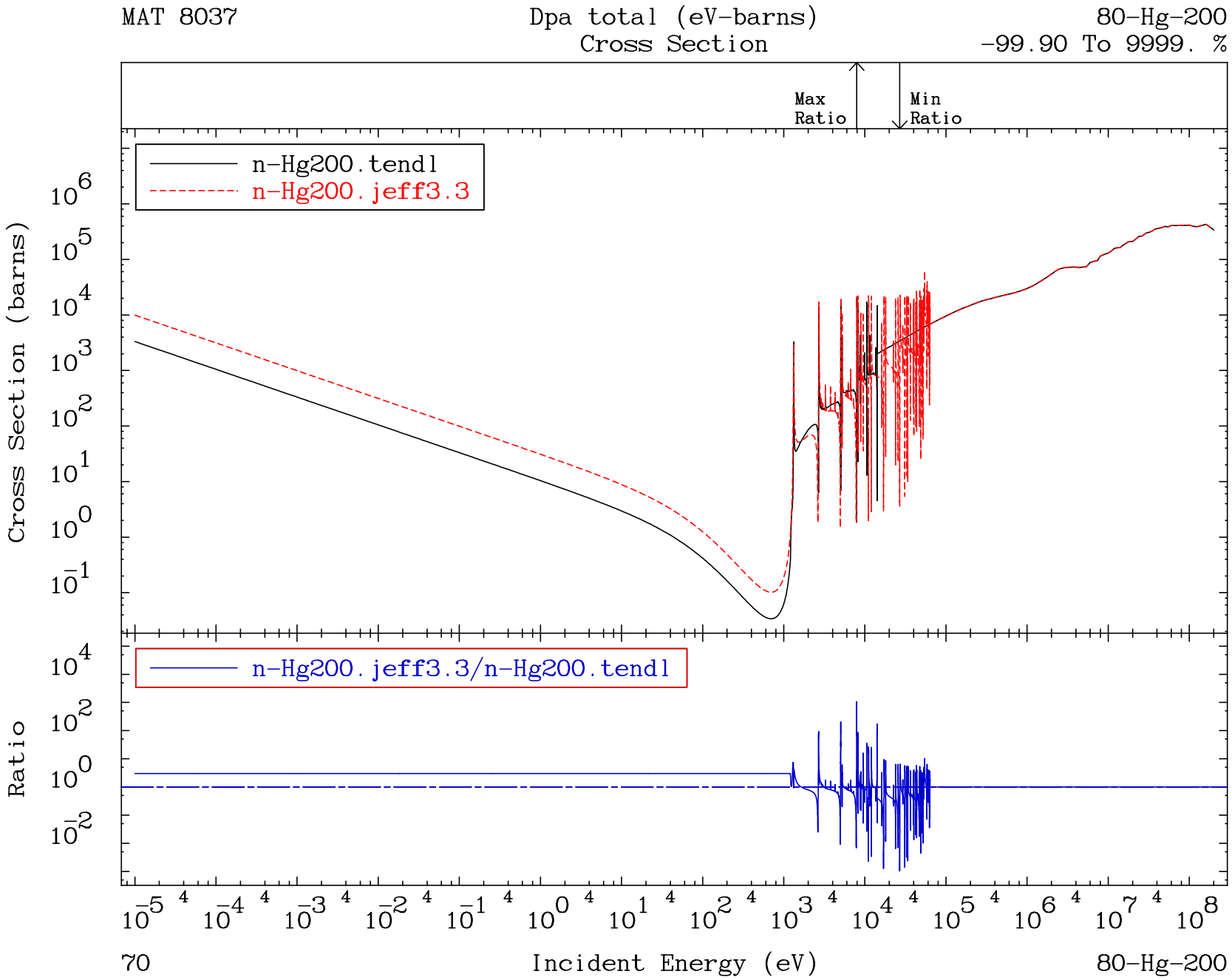

MAT 8037
Kerma inelastic (mt51-91)
Cross Section
80-Hg-200
-3.107 To 6.607 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 369.80 keV
n-Hg200.jeff3.3 Threshold 369.80 keV
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
Incident Energy (eV)
65
80-Hg-200

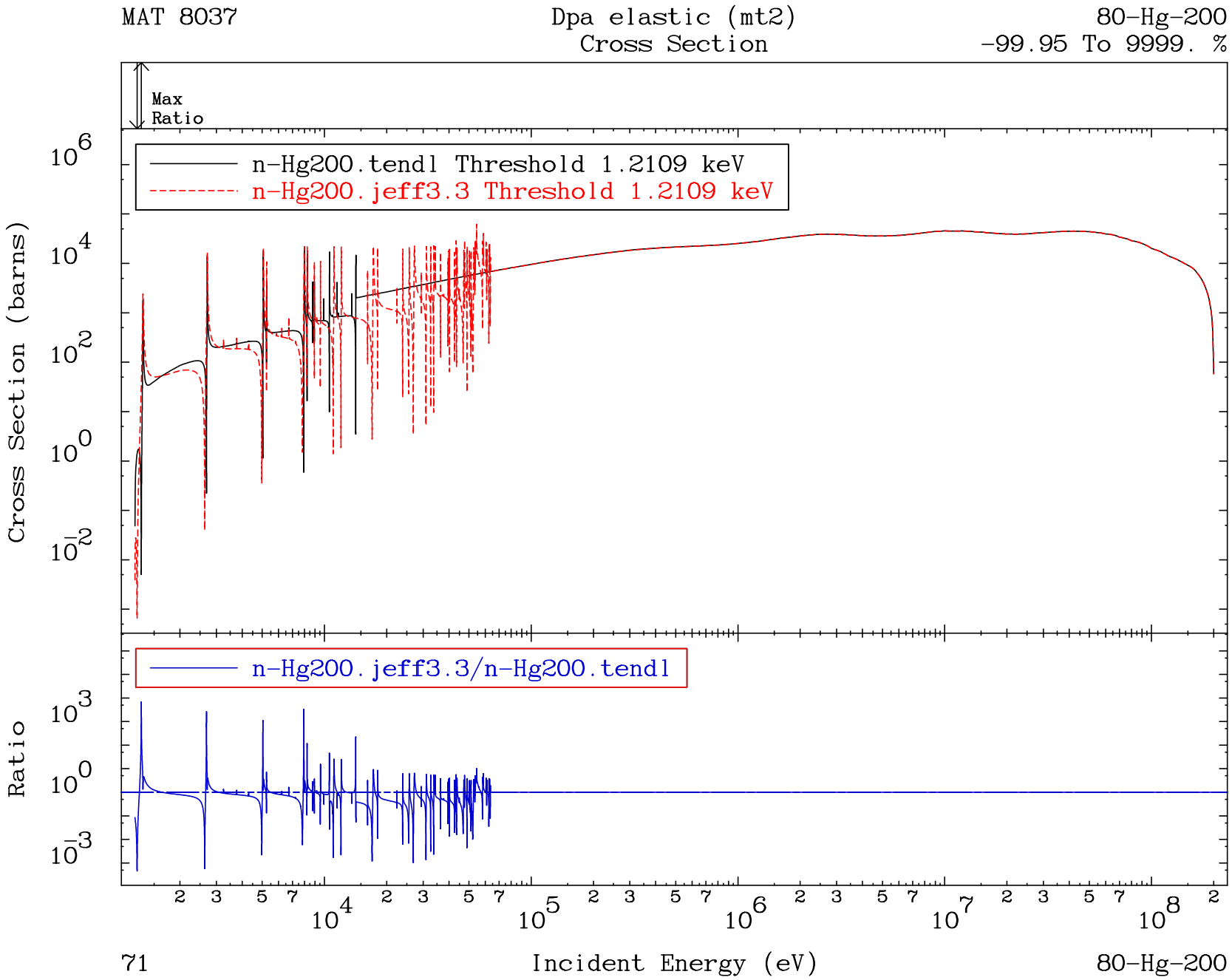

MAT 8037
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
80-Hg-200
-3.107 To 6.607 %
Min Ratio
Max Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.05
1.00
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
66
Incident Energy (eV)
80-Hg-200

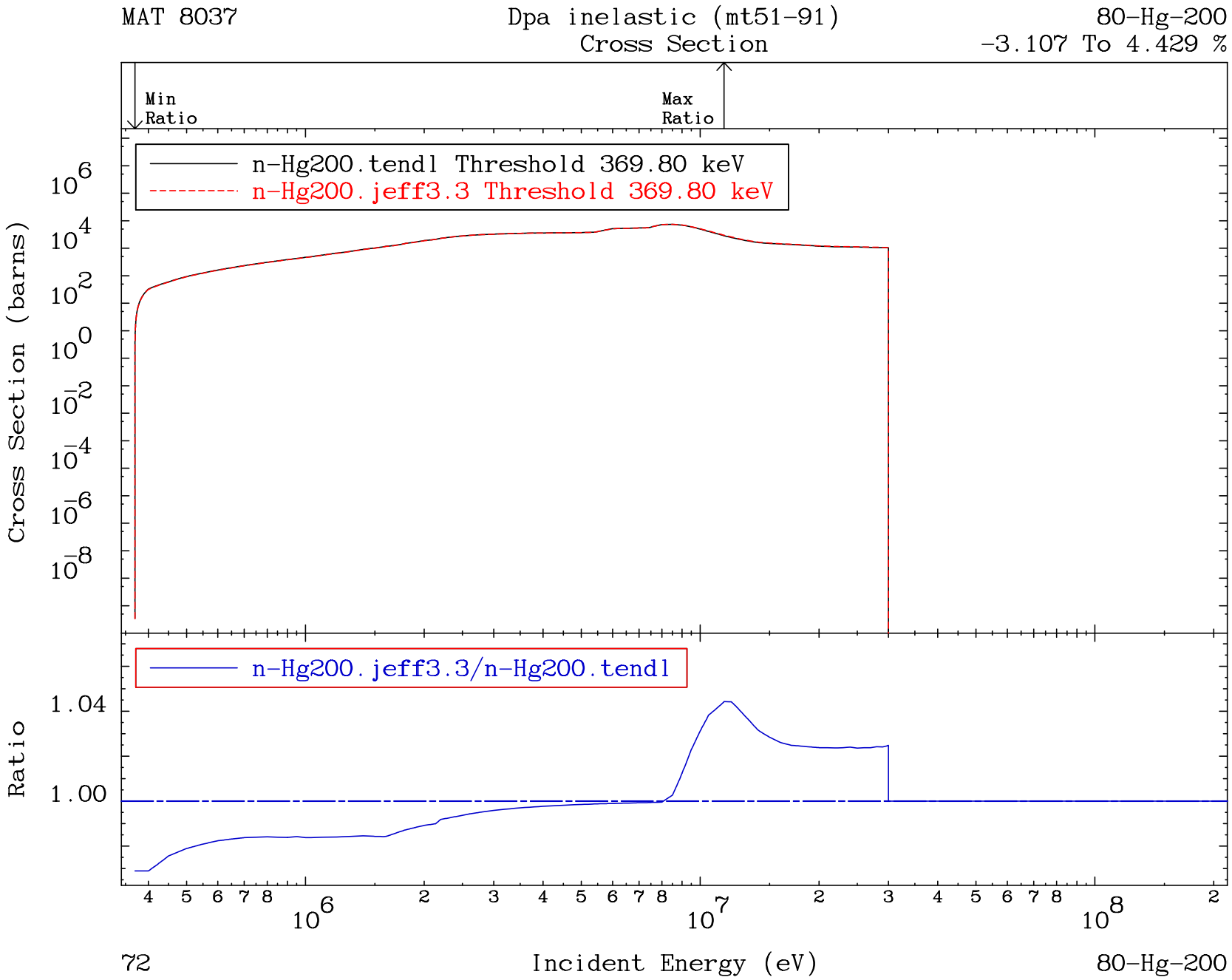

MAT 8037
Kerma capture (mt102)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
Incident Energy (eV)
67
80-Hg-200

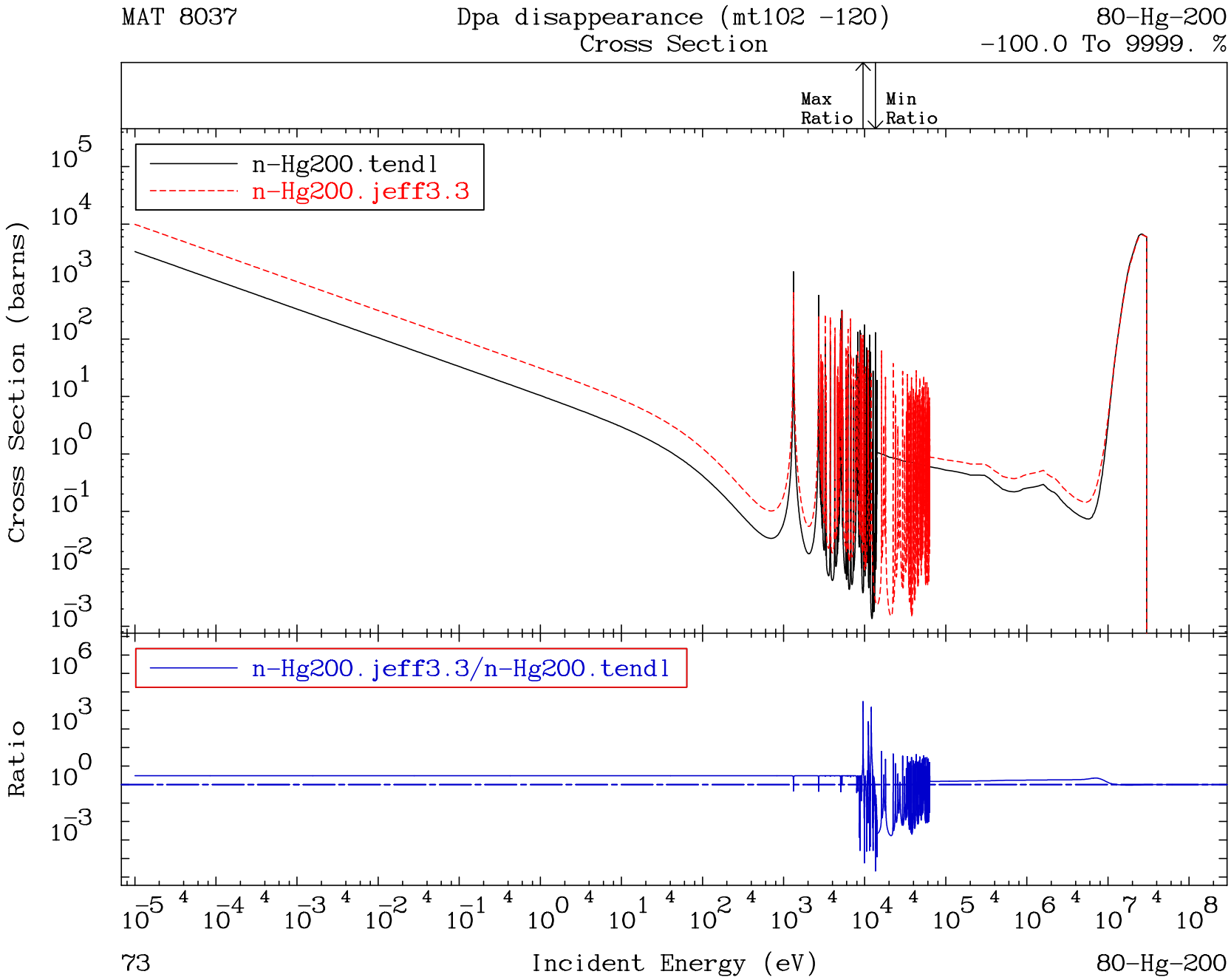

MAT 8037
Total photon (eV-barns)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
Incident Energy (eV)
68
80-Hg-200

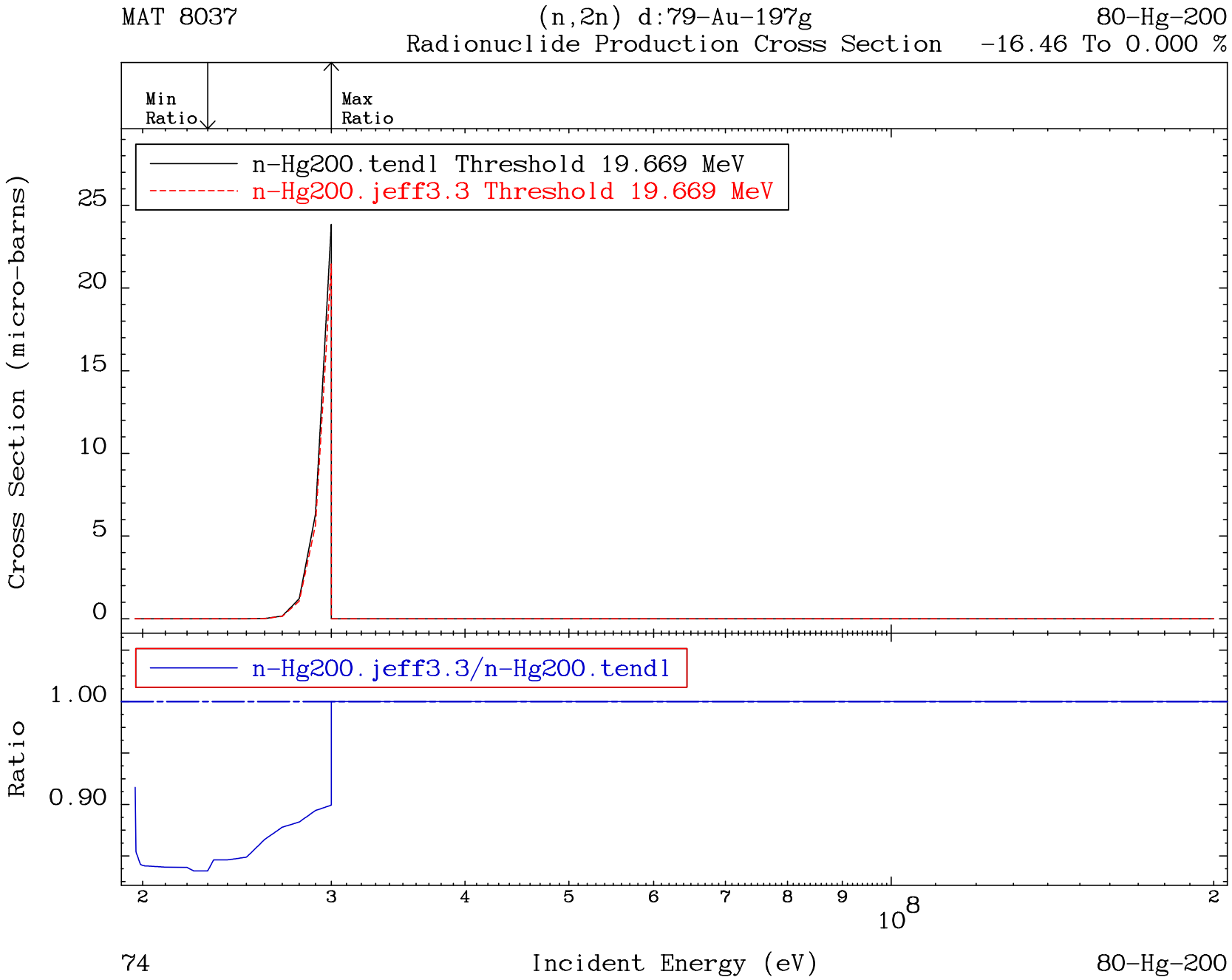

MAT 8037
Total kinematic kerma (high limit)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
69
Incident Energy (eV)
80-Hg-200

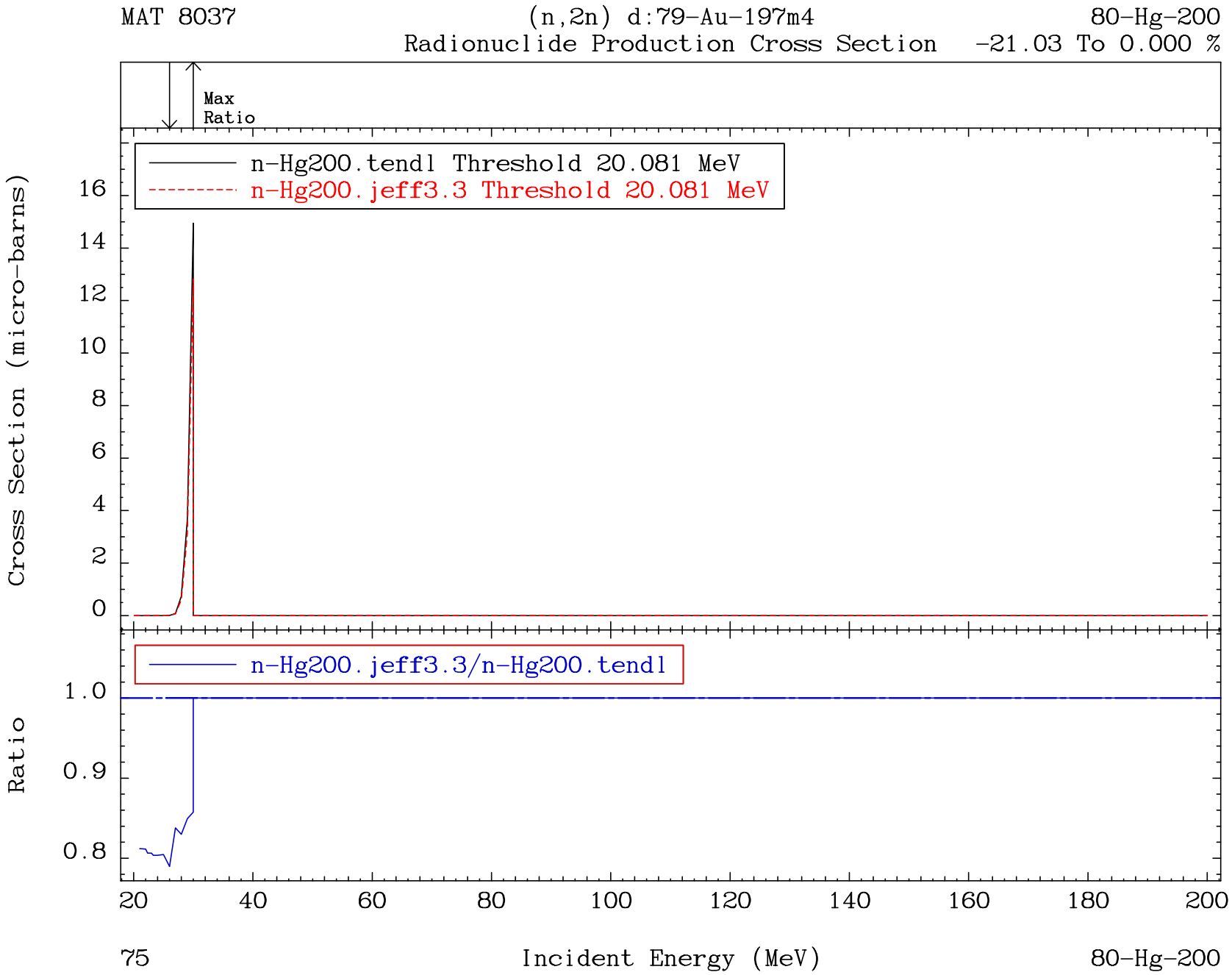

MAT 8037
Dpa total (eV-barns)
Cross Section
80-Hg-200
-99.90 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
Incident Energy (eV)
70
80-Hg-200

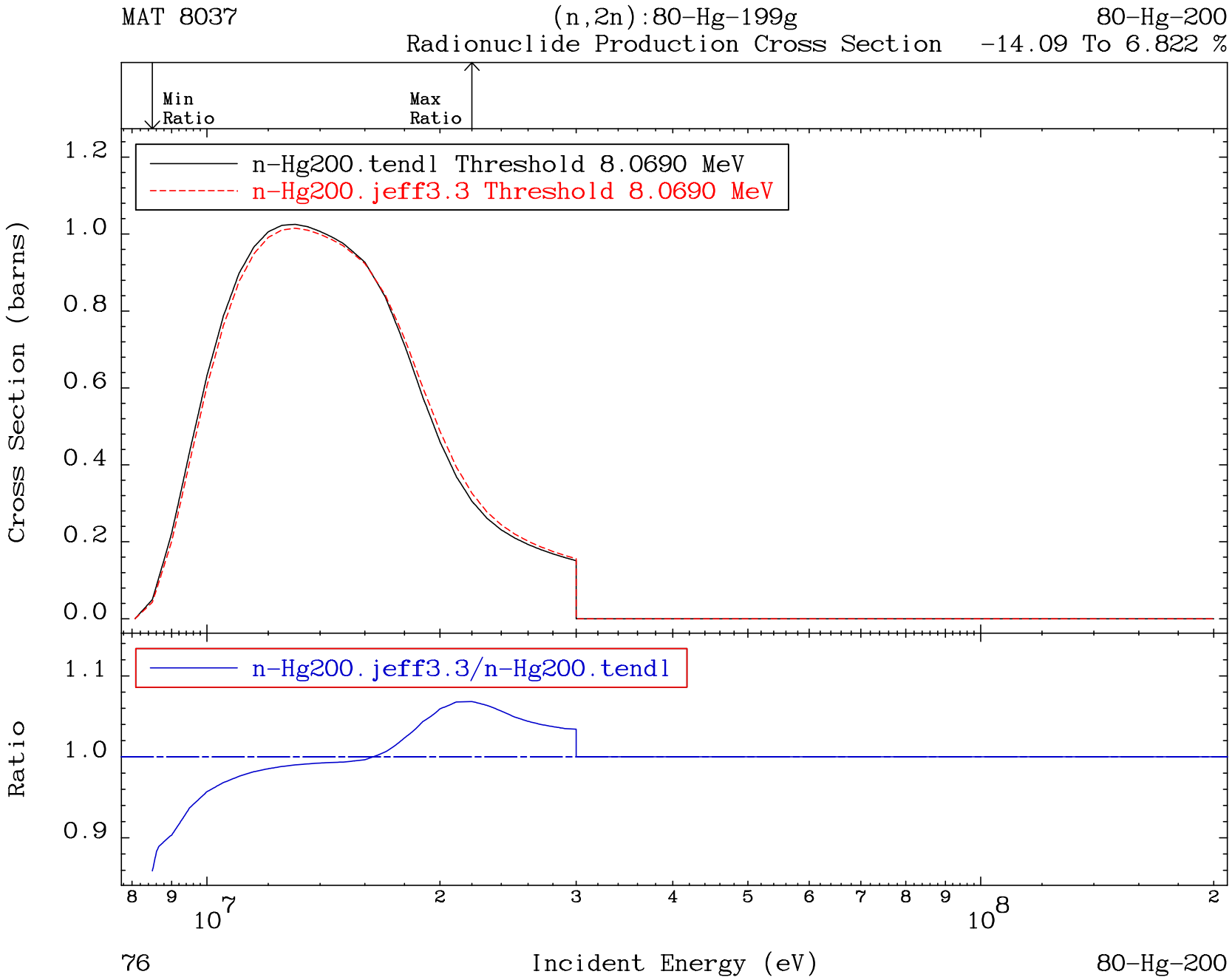

MAT 8037
Dpa elastic (mt2)
Cross Section
80-Hg-200
-99.95 To 9999. %
Max
Ratio
n-Hg200.tendl Threshold 1.2109 keV
n-Hg200.jeff3.3 Threshold 1.2109 keV
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
Incident Energy (eV)
71
80-Hg-200

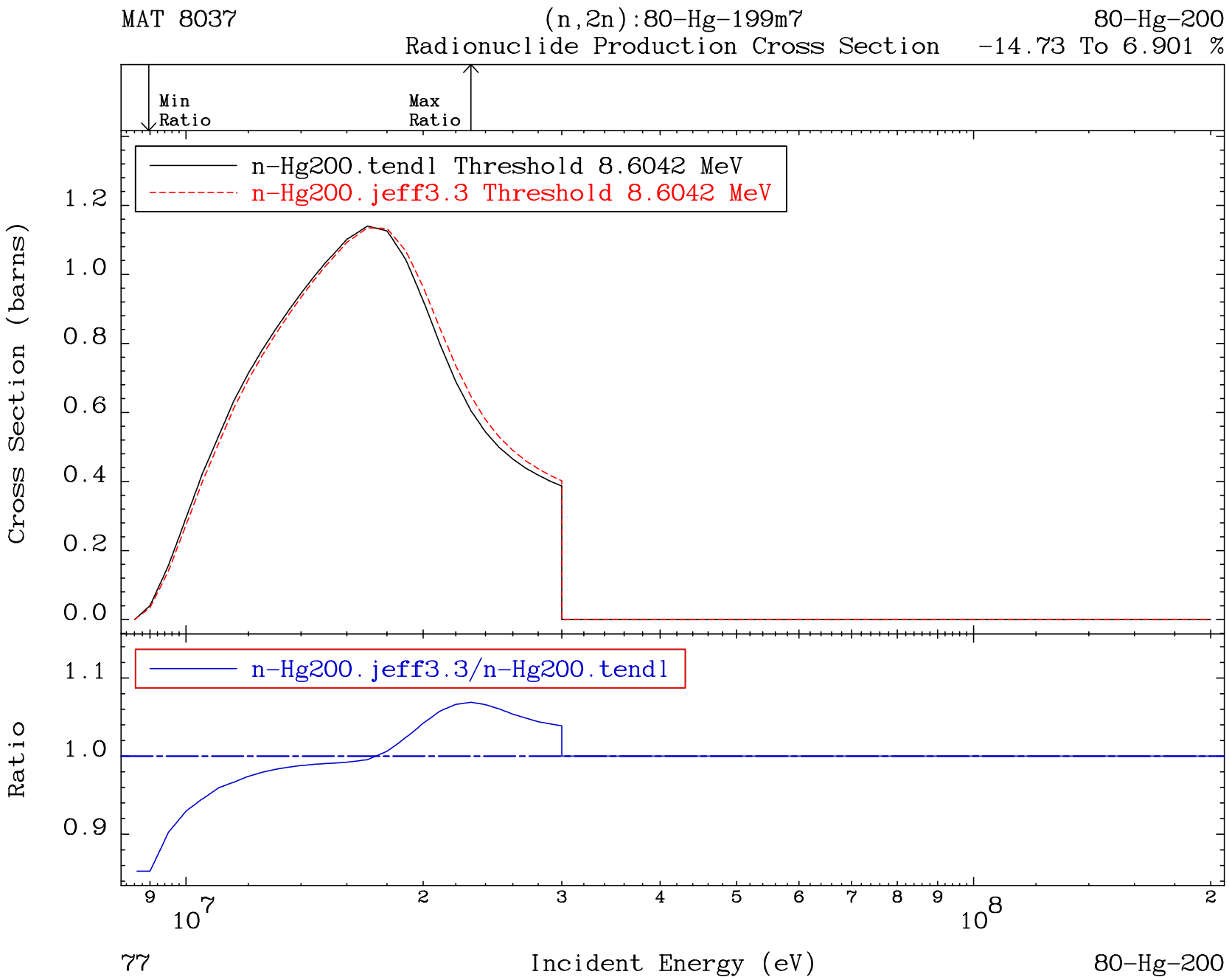

MAT 8037
Dpa inelastic (mt51-91)
Cross Section
80-Hg-200
-3.107 To 4.429 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 369.80 keV
n-Hg200.jeff3.3 Threshold 369.80 keV
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.04
1.00
Incident Energy (eV)
72
80-Hg-200

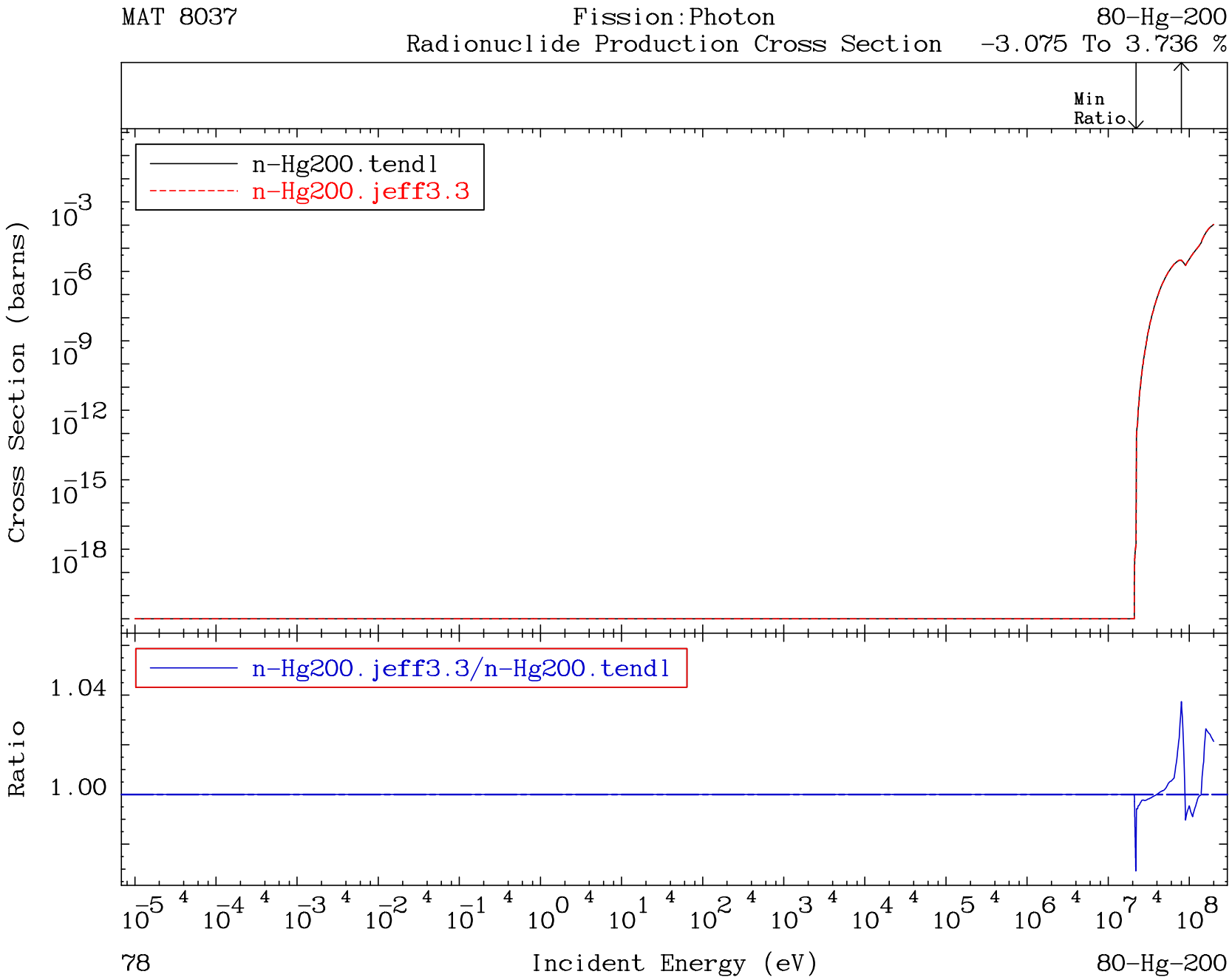

MAT 8037
Dpa disappearance (mt102 -120)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
73
Incident Energy (eV)
80-Hg-200

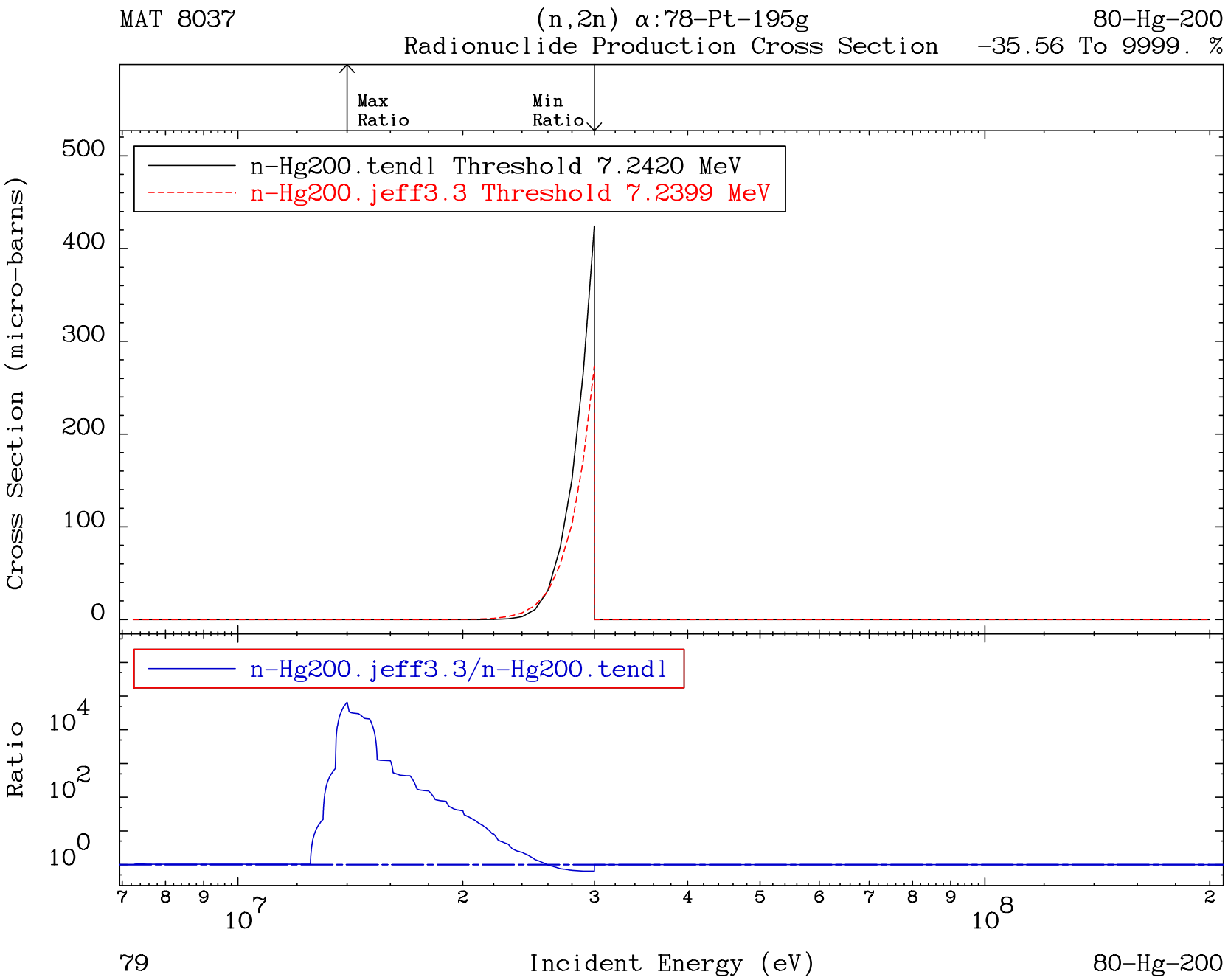

MAT 8037
(n,2n) d:79-Au-197g
80-Hg-200
Radionuclide Production Cross Section -16.46 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 19.669 MeV
n-Hg200.jeff3.3 Threshold 19.669 MeV
Cross Section (micro-barns)
25
20
15
10
5
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.90
2
3
4
5
6
7
8
9
10^8
2
74
Incident Energy (eV)
80-Hg-200

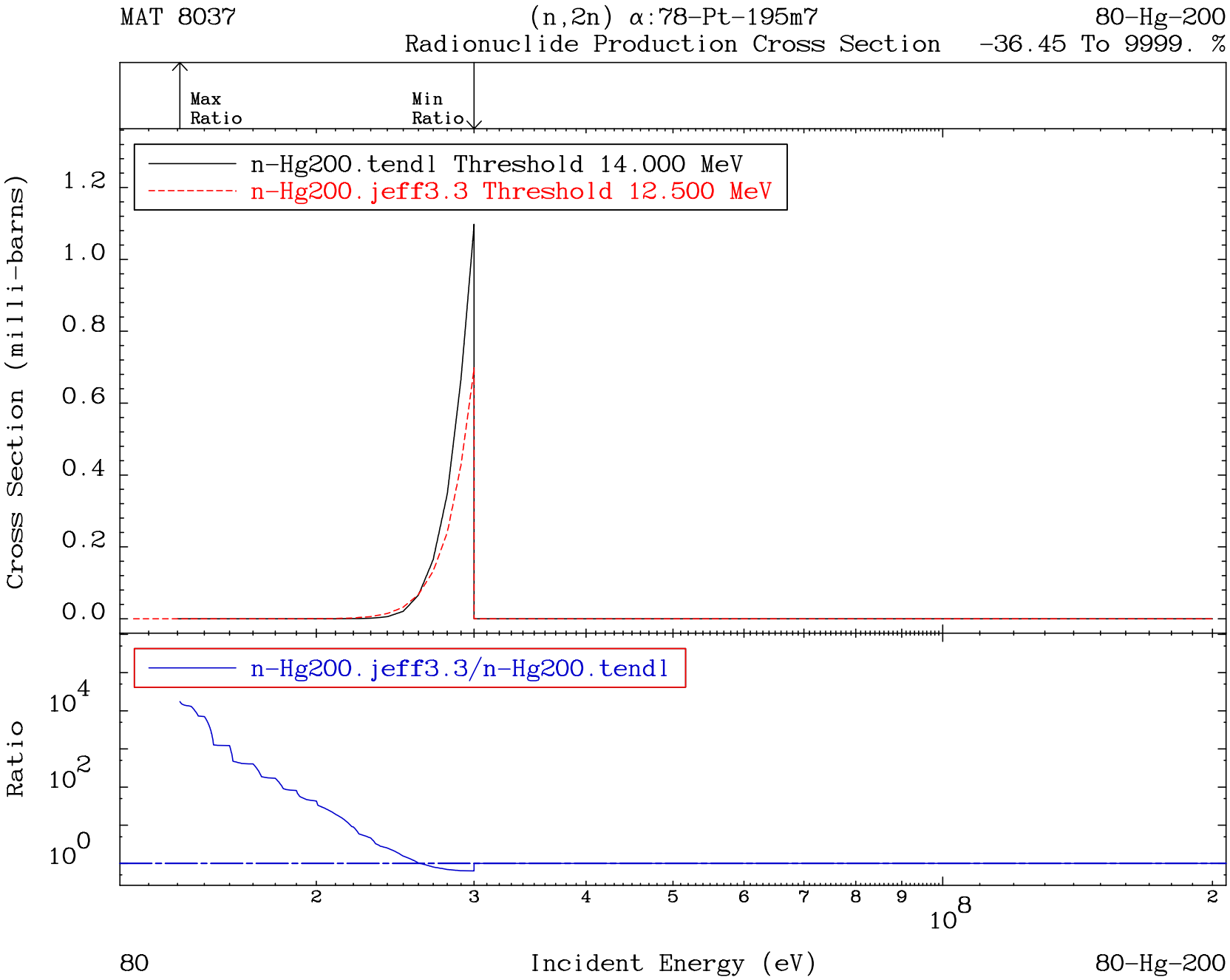

MAT 8037
(n,2n) d:79-Au-197m4
80-Hg-200
Radionuclide Production Cross Section
-21.03 To 0.000 %
Max
Ratio
n-Hg200.tendl Threshold 20.081 MeV
n-Hg200.jeff3.3 Threshold 20.081 MeV
Cross Section (micro-barns)
16
14
12
10
8
6
4
2
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.0
0.9
0.8
20
40
60
80
100
120
140
160
180
200
75
Incident Energy (MeV)
80-Hg-200

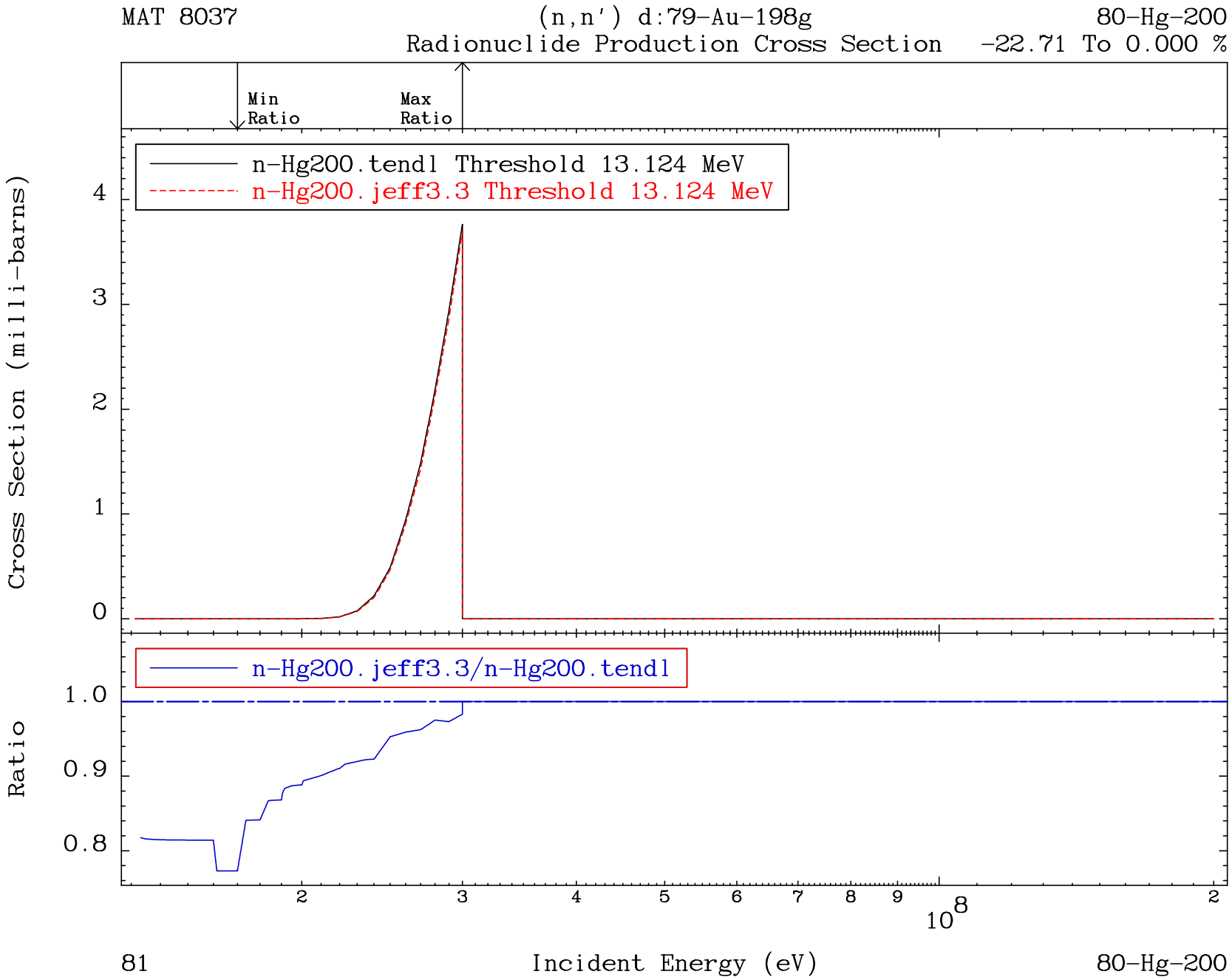

MAT 8037
(n,2n):80-Hg-199g
80-Hg-200
Radionuclide Production Cross Section -14.09 To 6.822 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 8.0690 MeV
n-Hg200.jeff3.3 Threshold 8.0690 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.1
1.0
0.9
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
76
Incident Energy (eV)
80-Hg-200

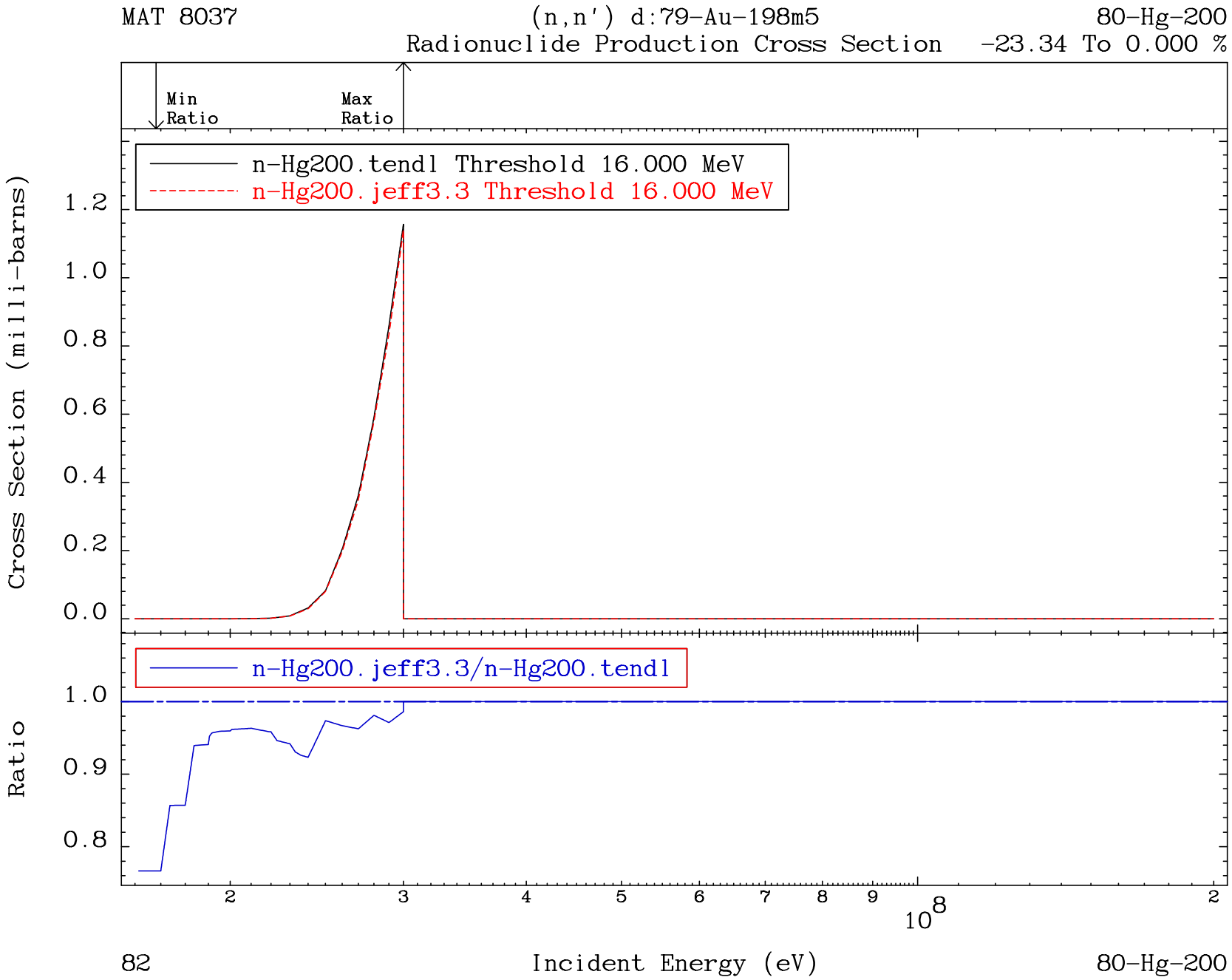

MAT 8037
(n,2n):80-Hg-199m7
80-Hg-200
Radionuclide Production Cross Section -14.73 To 6.901 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 8.6042 MeV
n-Hg200.jeff3.3 Threshold 8.6042 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.1
1.0
0.9
9
10^7
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
80-Hg-200

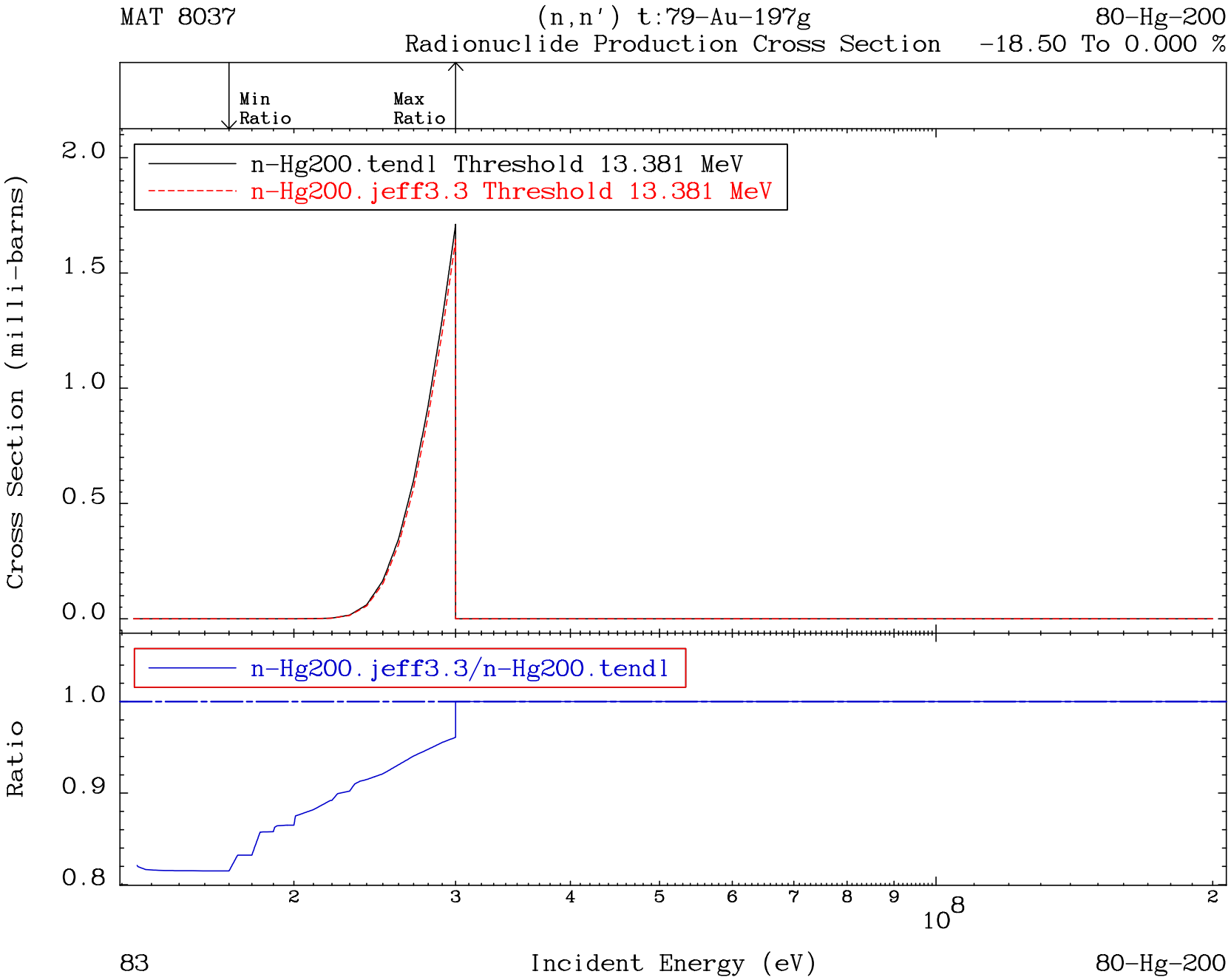

MAT 8037
Fission:Photon
80-Hg-200
Radionuclide Production Cross Section
-3.075 To 3.736 %
Min
Ratio
n-Hg200.tendl
n-Hg200.jeff3.3
Cross Section (barns)
10-3
10-6
10-9
10-12
10-15
10-18
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.04
1.00
10-5
10-4
10-3
10-2
10-1
100
101
102
103
104
105
106
107
108
78
Incident Energy (eV)
80-Hg-200

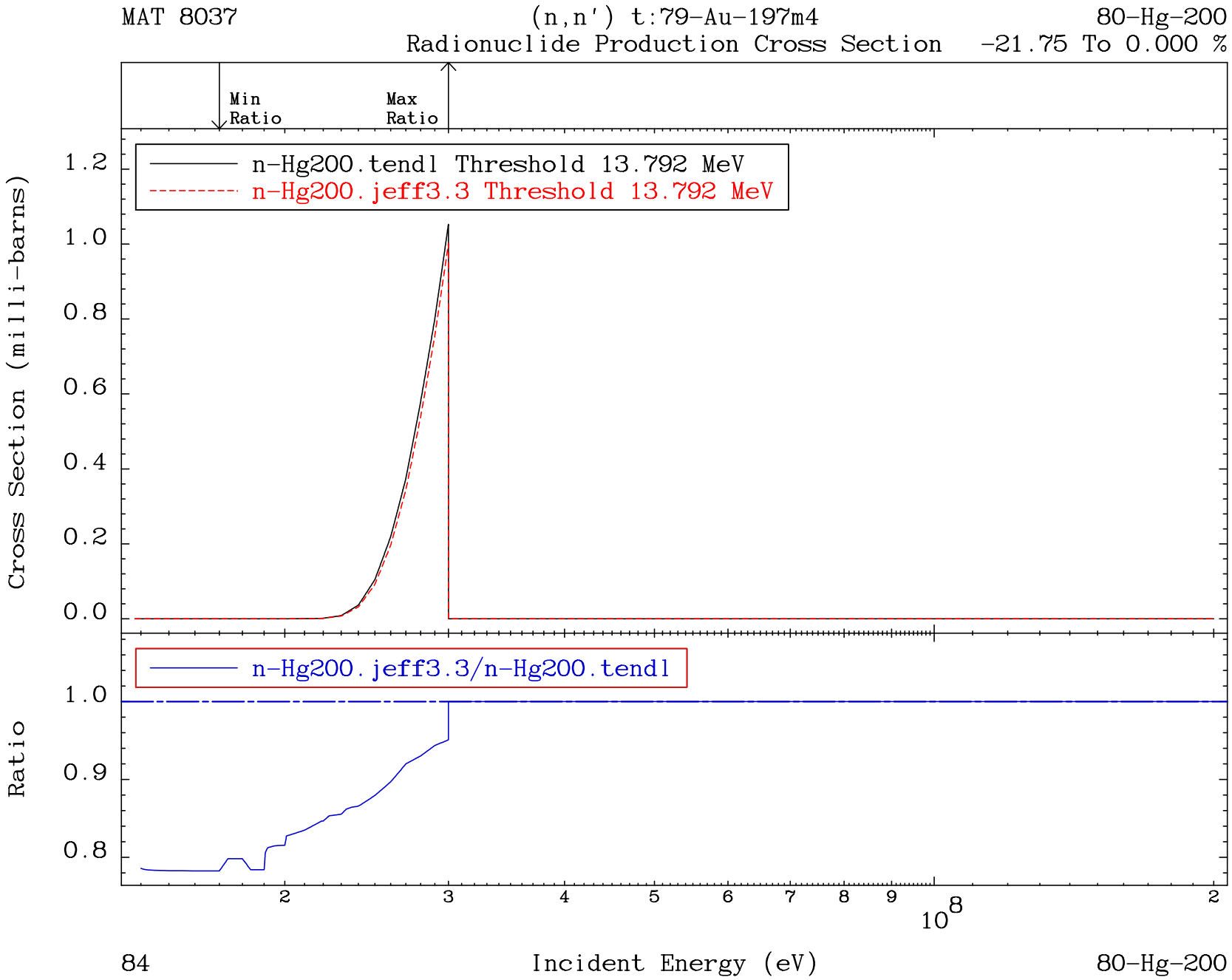

MAT 8037
(n,2n) α:78-Pt-195g
80-Hg-200
Radionuclide Production Cross Section -35.56 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 7.2420 MeV
n-Hg200.jeff3.3 Threshold 7.2399 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
10^4
10^2
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
79
Incident Energy (eV)
80-Hg-200

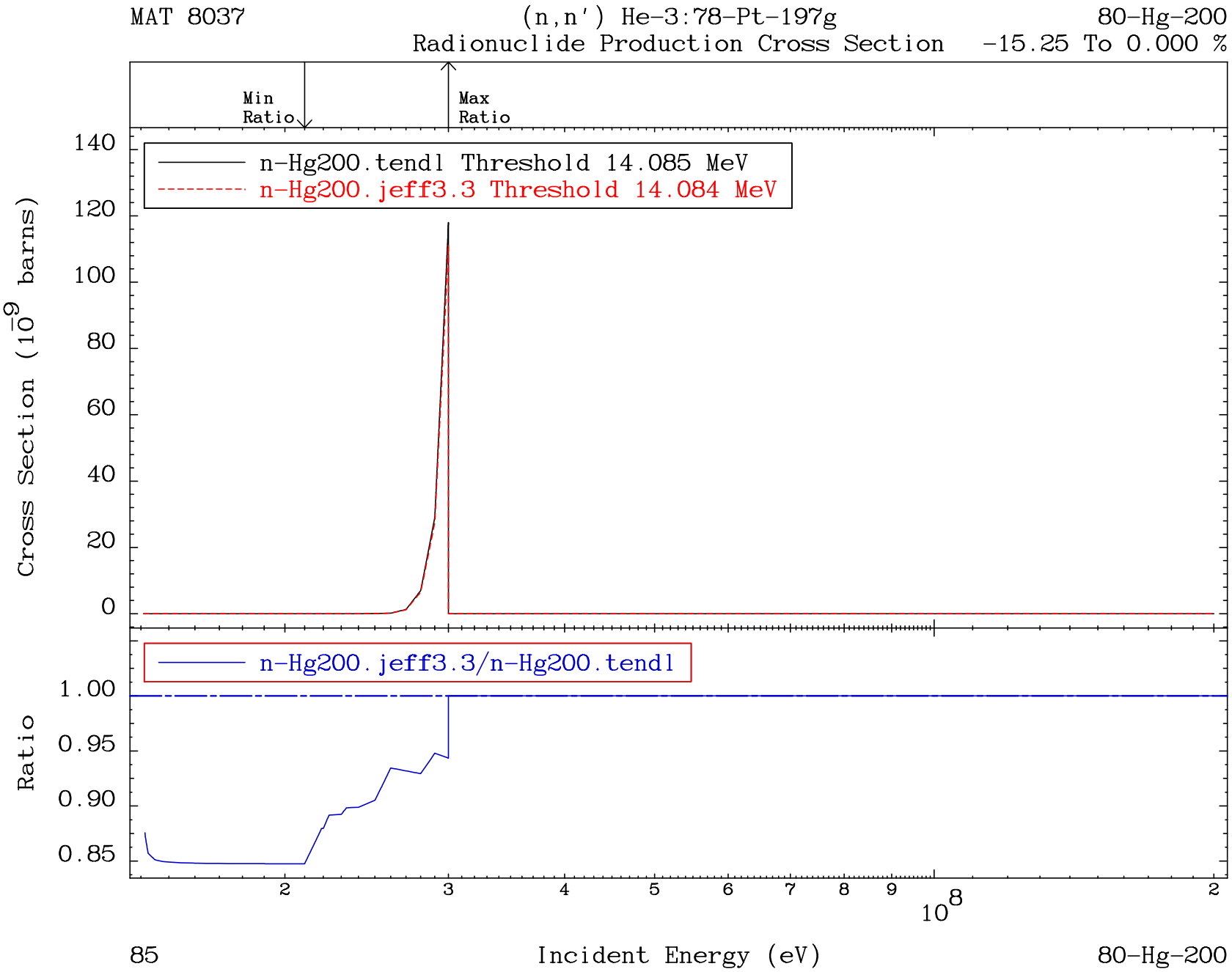

MAT 8037
(n,2n) α:78-Pt-195m7
80-Hg-200
Radionuclide Production Cross Section -36.45 To 9999. %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 14.000 MeV
n-Hg200.jeff3.3 Threshold 12.500 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
80-Hg-200

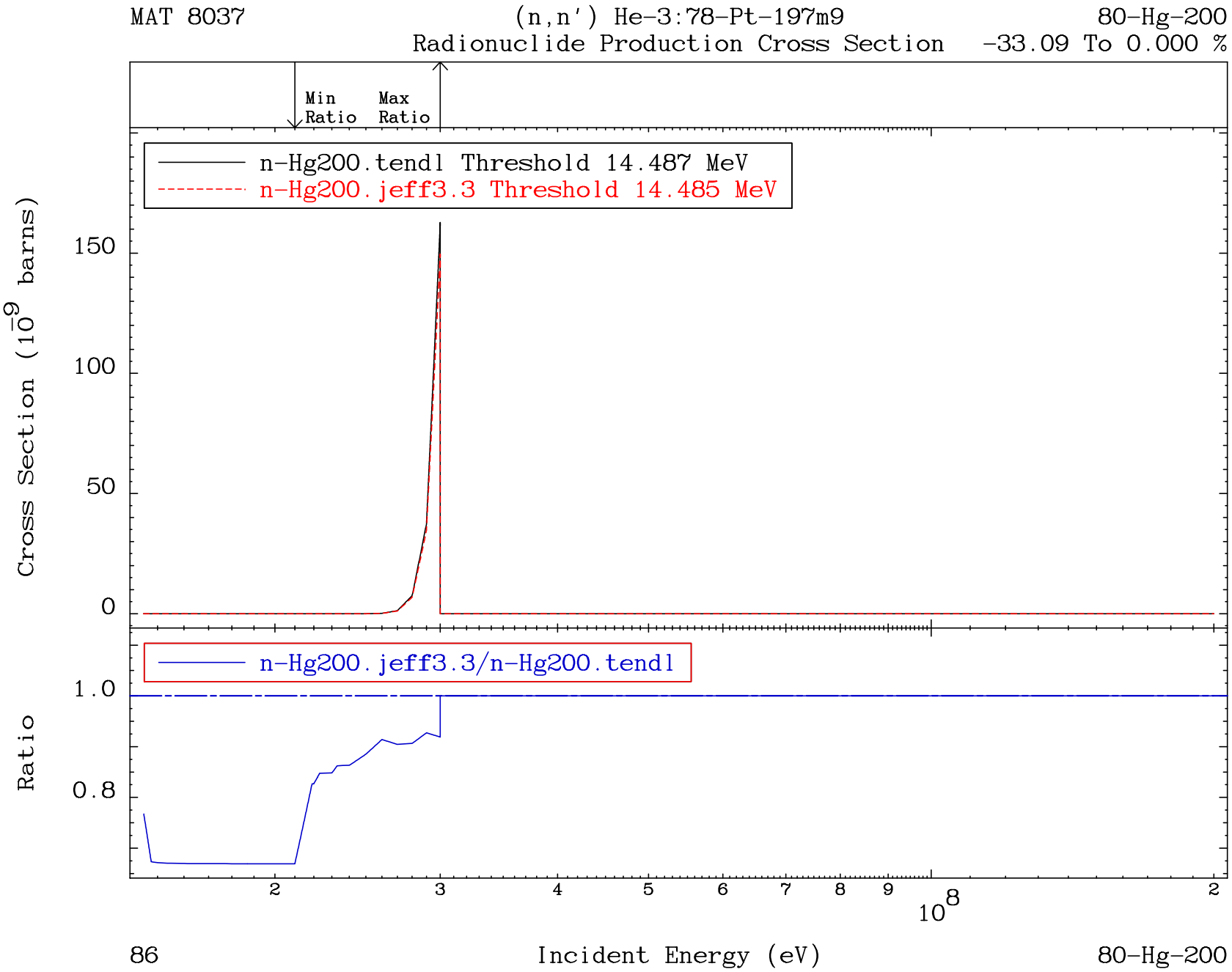

MAT 8037
(n,n') d:79-Au-198g
80-Hg-200
Radionuclide Production Cross Section -22.71 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 13.124 MeV
n-Hg200.jeff3.3 Threshold 13.124 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
0.8
0.9
1.0
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
80-Hg-200

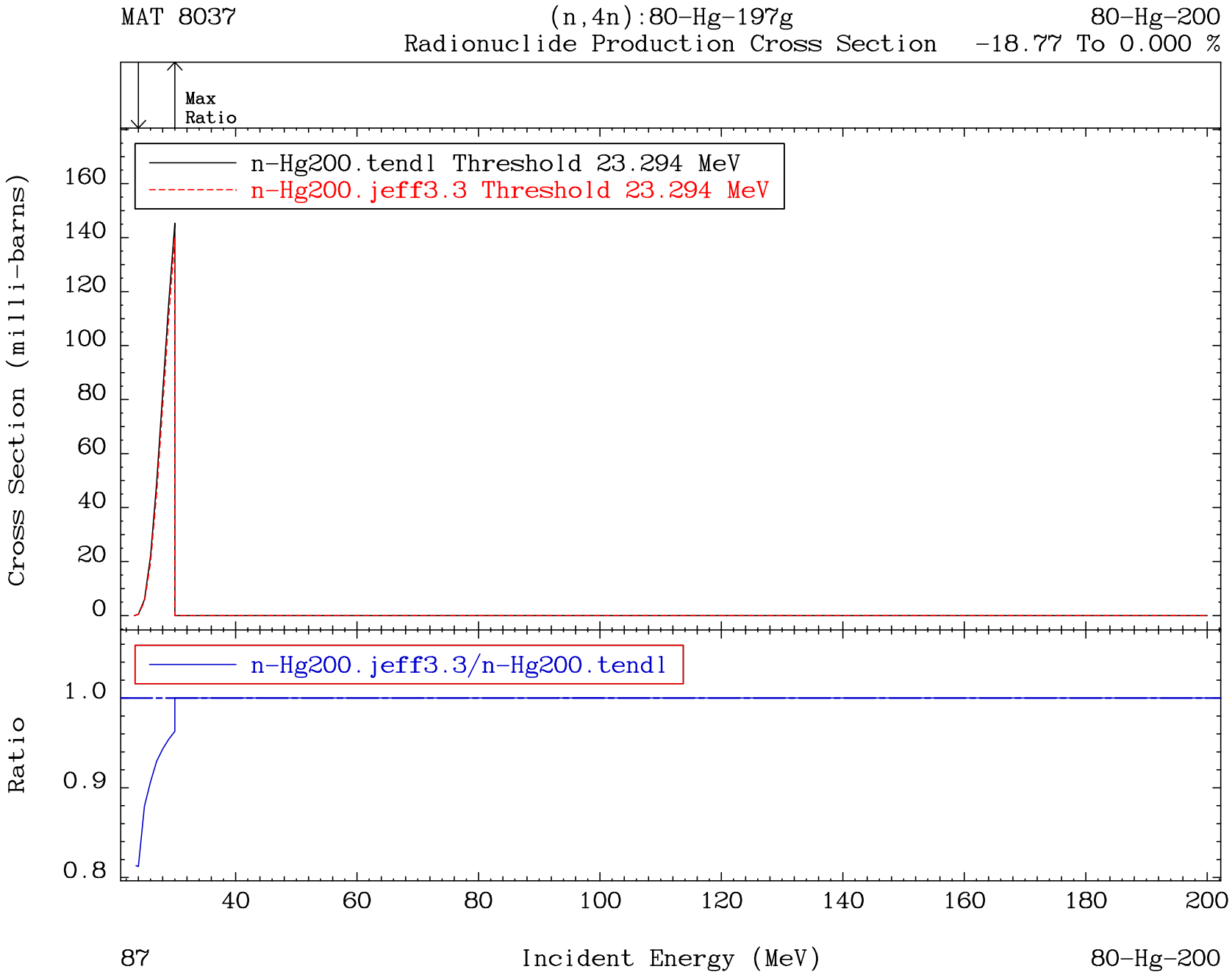

MAT 8037
(n,n') d:79-Au-198m5
80-Hg-200
Radionuclide Production Cross Section
-23.34 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 16.000 MeV
n-Hg200.jeff3.3 Threshold 16.000 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
80-Hg-200

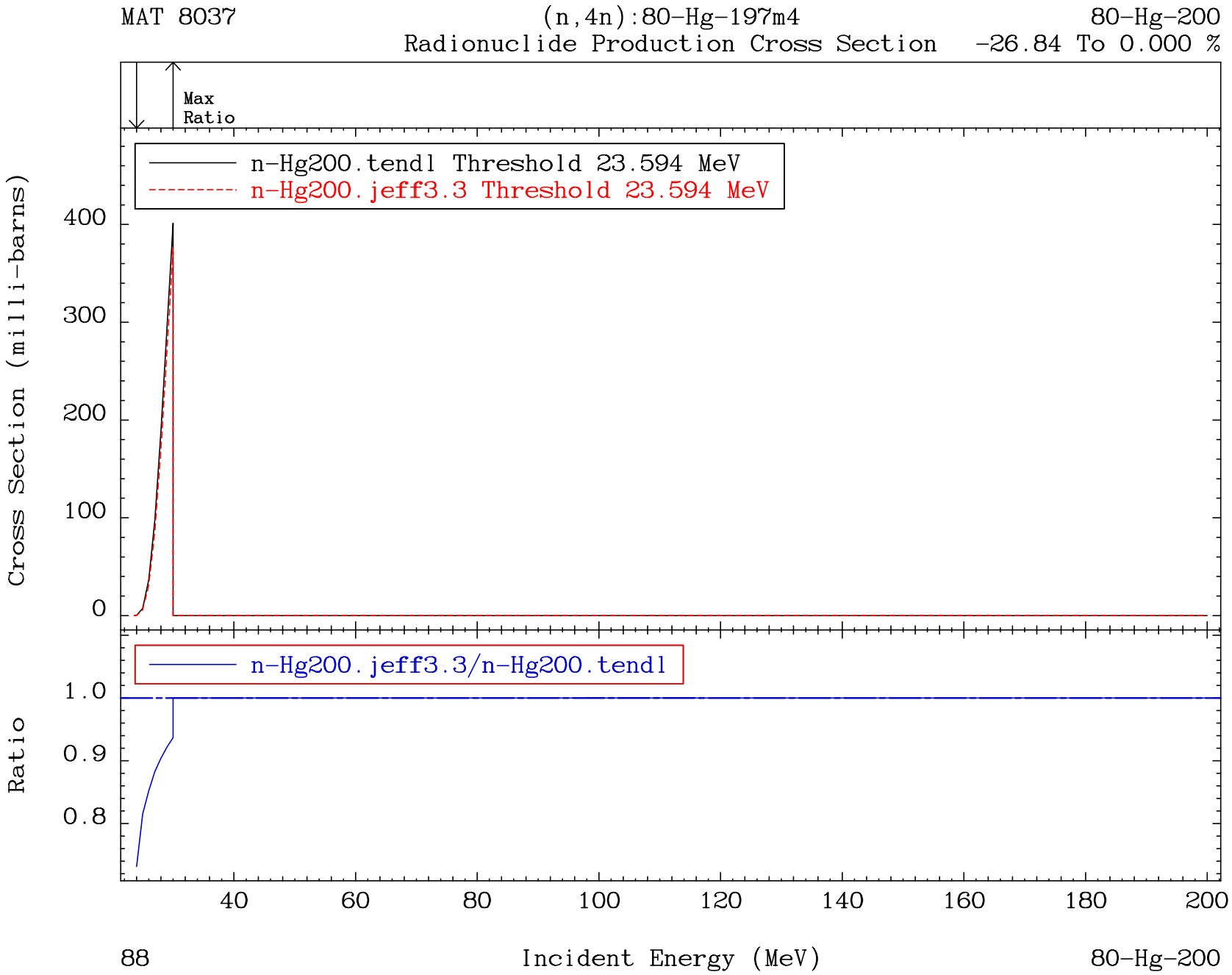

MAT 8037
(n,n') t:79-Au-197g
80-Hg-200
Radionuclide Production Cross Section -18.50 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 13.381 MeV
n-Hg200.jeff3.3 Threshold 13.381 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
80-Hg-200

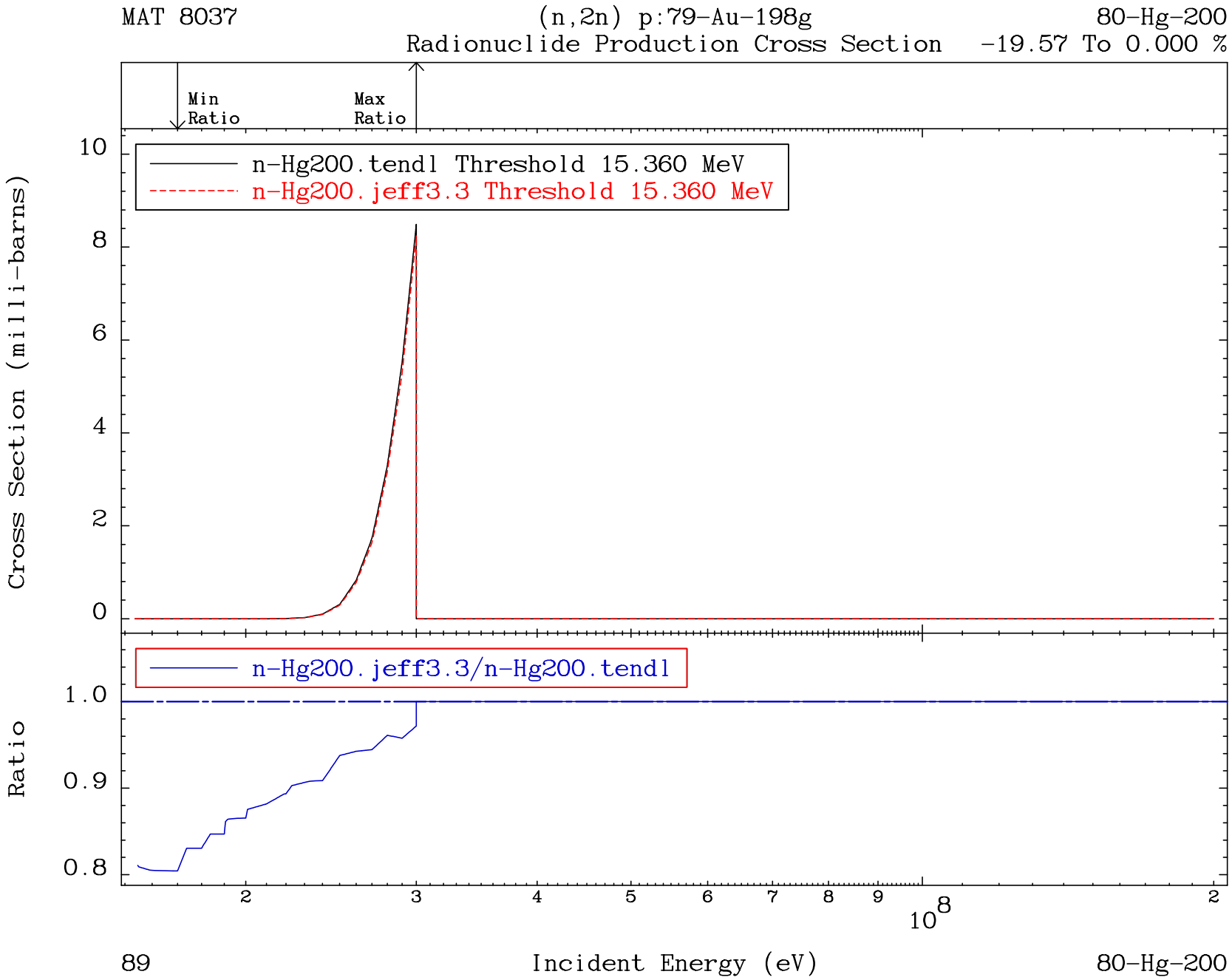

MAT 8037
(n,n') t:79-Au-197m4
80-Hg-200
Radionuclide Production Cross Section -21.75 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 13.792 MeV
n-Hg200.jeff3.3 Threshold 13.792 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
80-Hg-200

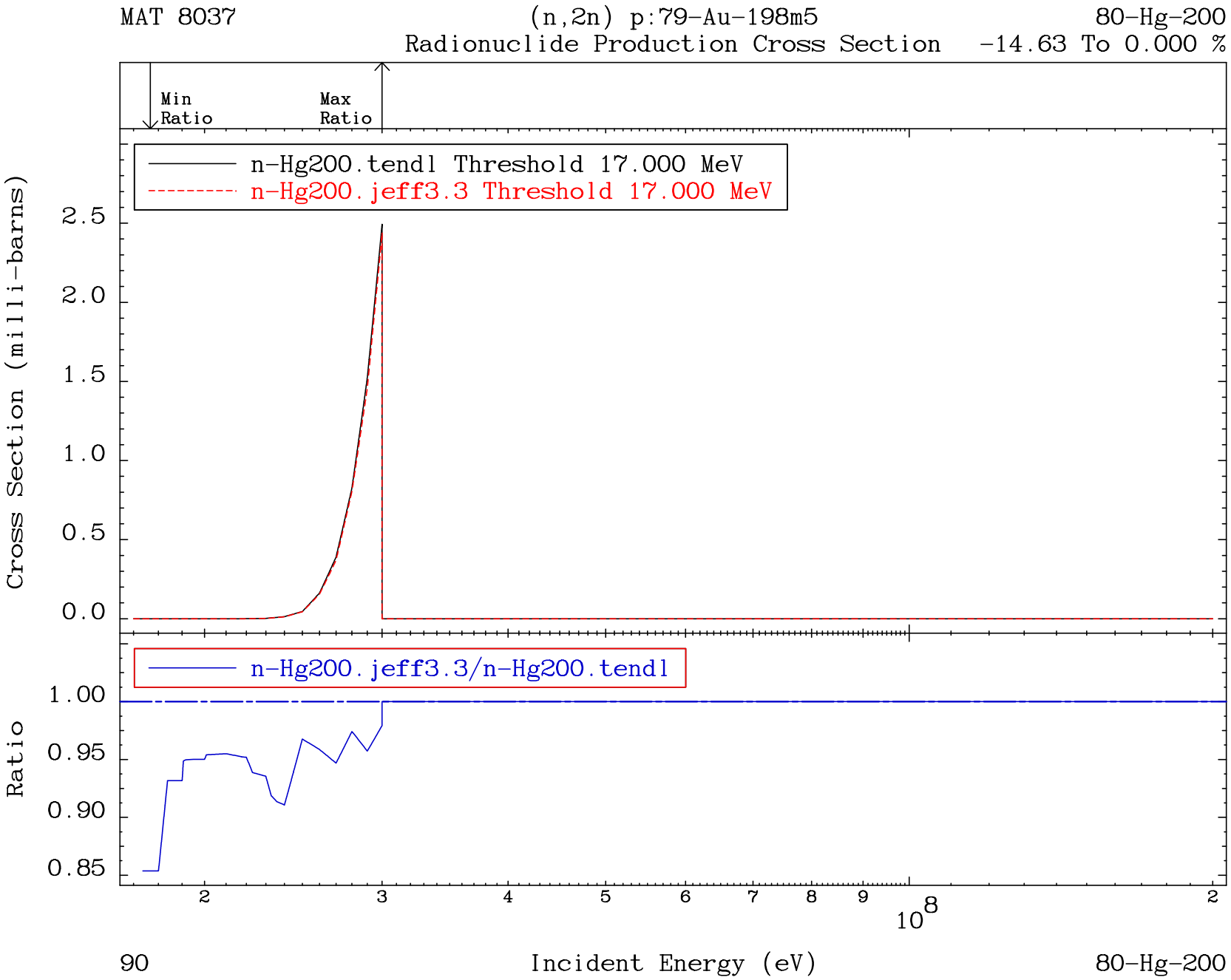

MAT 8037
(n,n') He-3:78-Pt-197g
80-Hg-200
Radionuclide Production Cross Section -15.25 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 14.085 MeV
n-Hg200.jeff3.3 Threshold 14.084 MeV
Cross Section (10^{-9} barns)
140
120
100
80
60
40
20
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
80-Hg-200

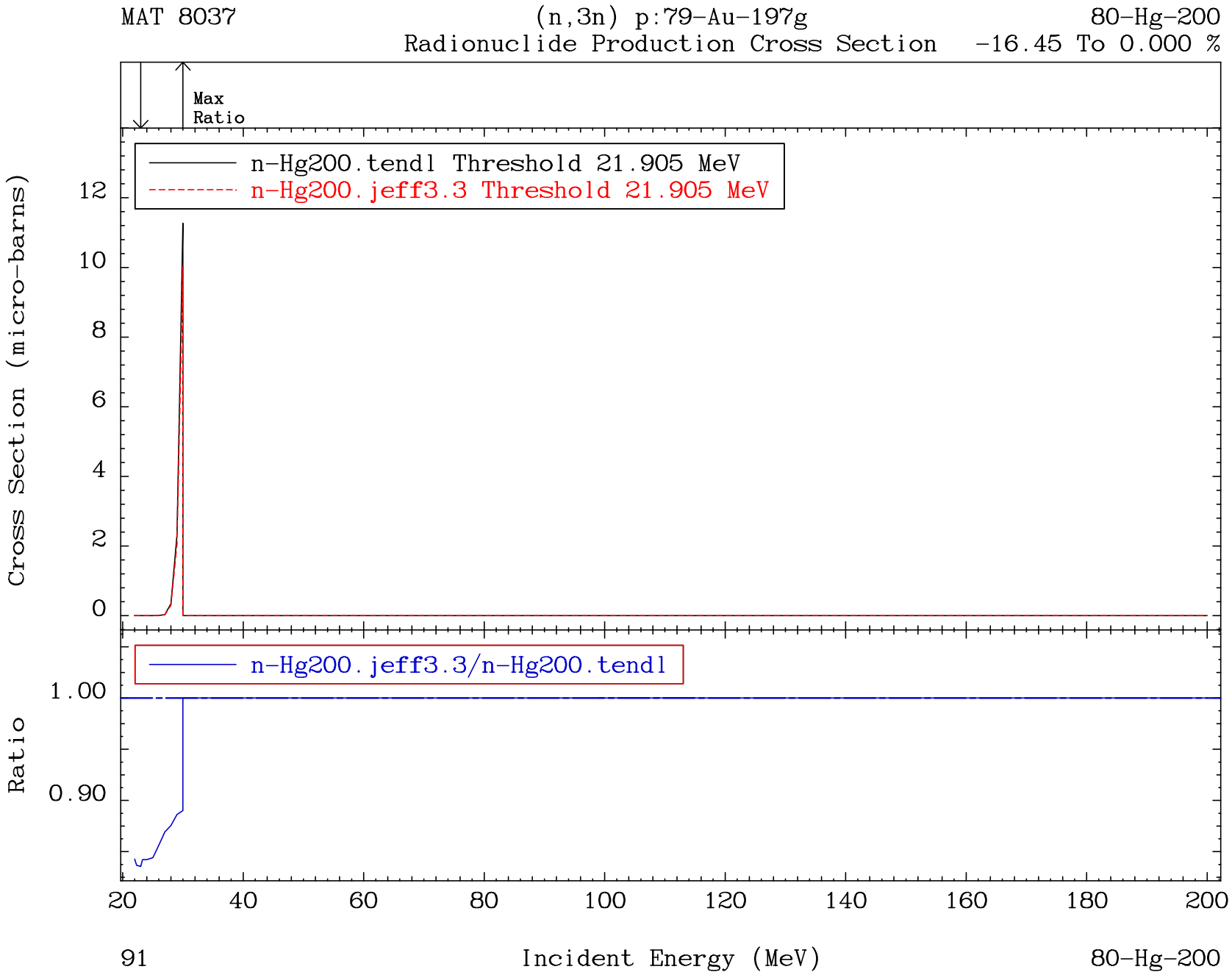

MAT 8037
(n,n') He-3:78-Pt-197m9
80-Hg-200
Radionuclide Production Cross Section
-33.09 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 14.487 MeV
n-Hg200.jeff3.3 Threshold 14.485 MeV
Cross Section (10^{-9} barns)
150
100
50
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
80-Hg-200

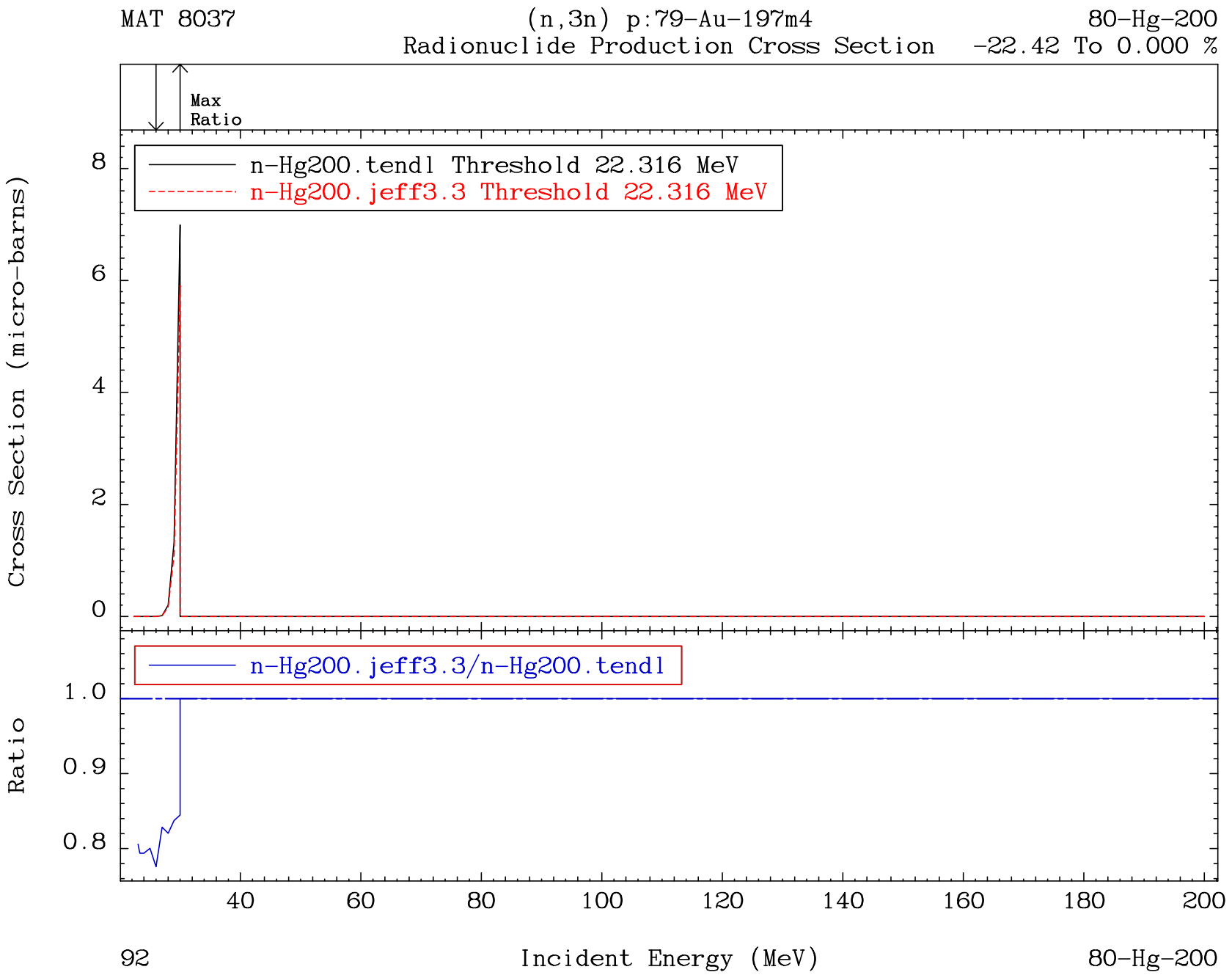

MAT 8037
(n,4n):80-Hg-197g
80-Hg-200
Radionuclide Production Cross Section -18.77 To 0.000 %
Max
Ratio
n-Hg200.tendl Threshold 23.294 MeV
n-Hg200.jeff3.3 Threshold 23.294 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.0
0.9
0.8
40
60
80
100
120
140
160
180
200
87
Incident Energy (MeV)
80-Hg-200

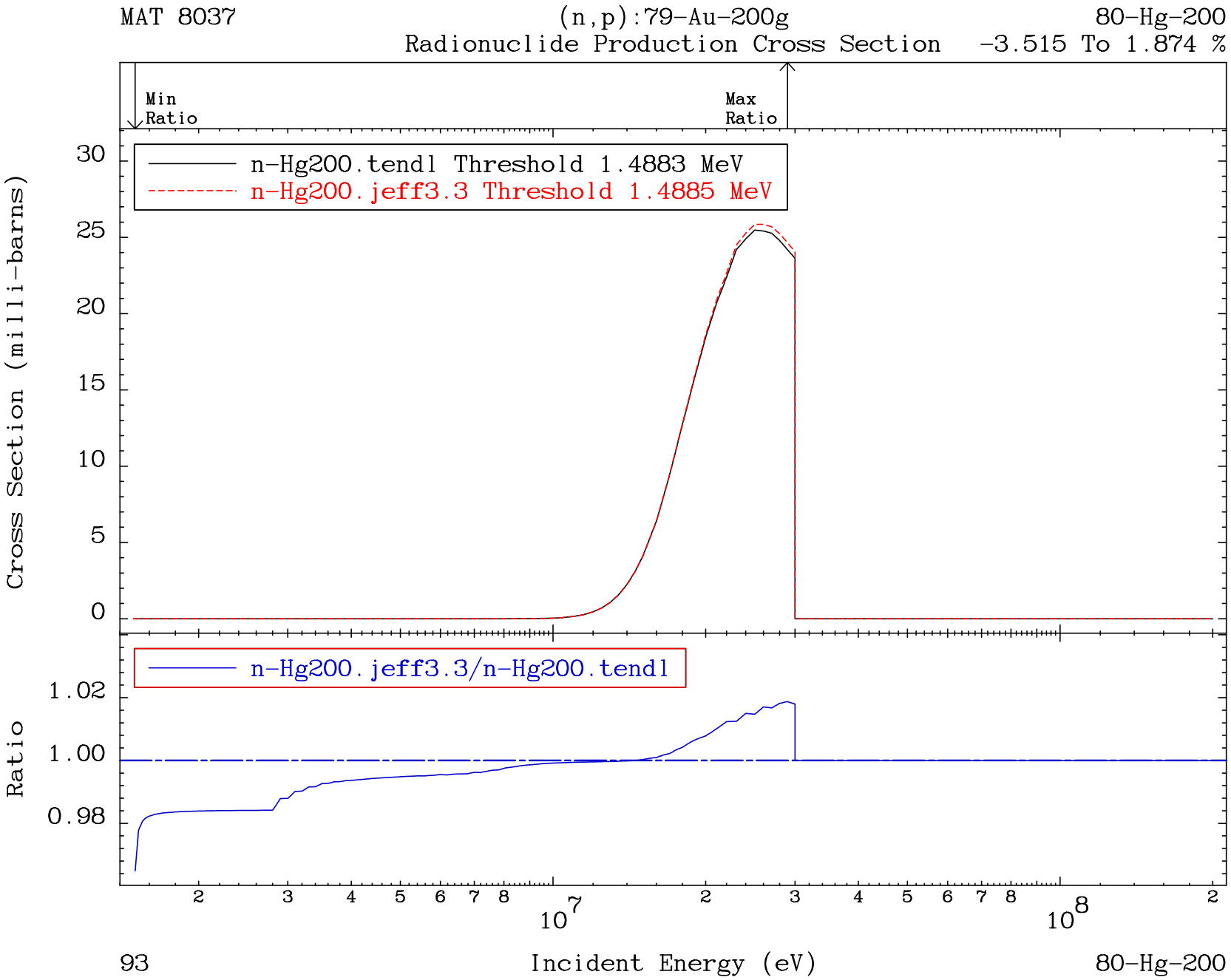

MAT 8037
(n,4n):80-Hg-197m4
80-Hg-200
Radionuclide Production Cross Section -26.84 To 0.000 %
Max
Ratio
n-Hg200.tendl Threshold 23.594 MeV
n-Hg200.jeff3.3 Threshold 23.594 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.0
0.9
0.8
40
60
80
100
120
140
160
180
200
88
Incident Energy (MeV)
80-Hg-200

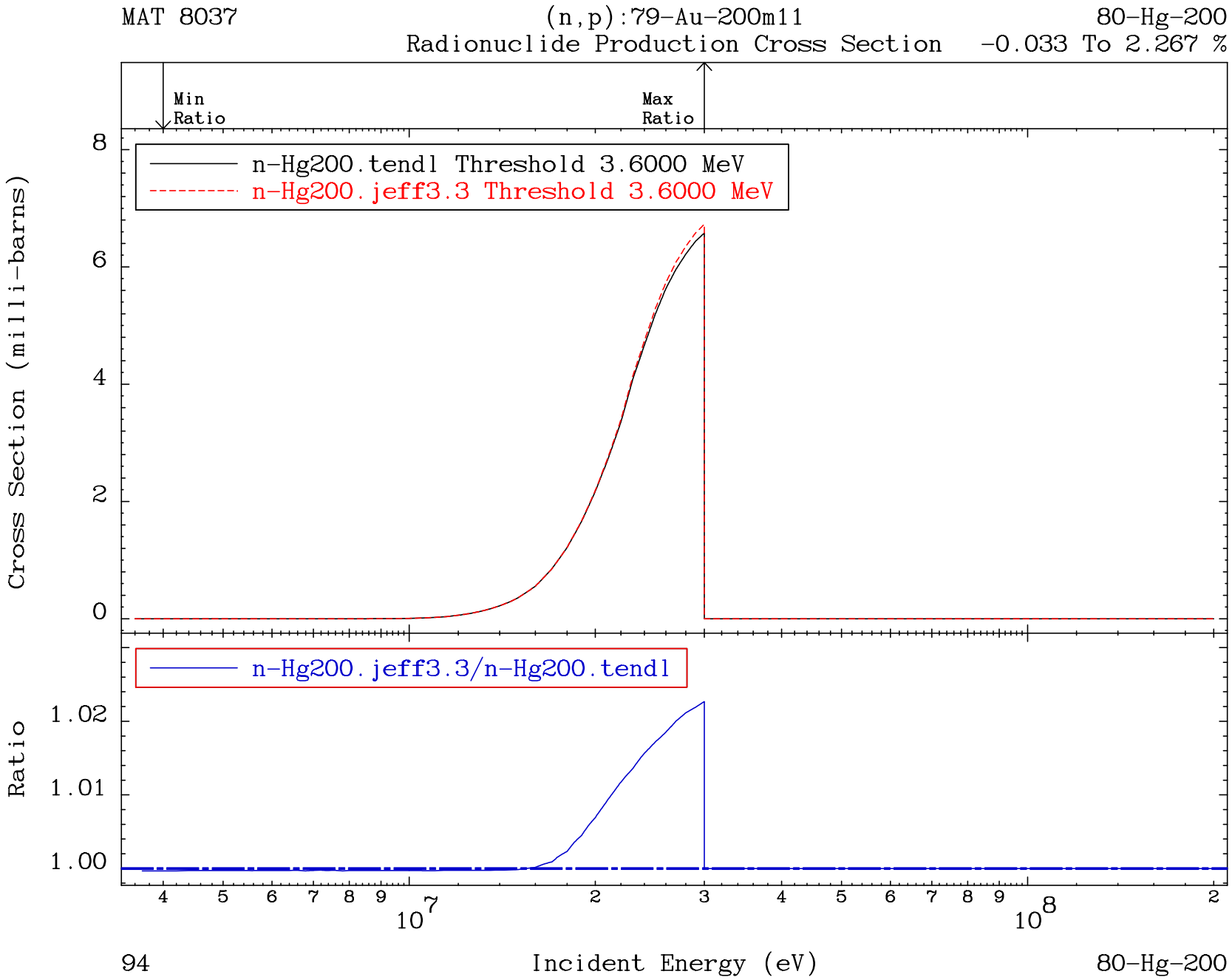

MAT 8037
(n,2n) p:79-Au-198g
80-Hg-200
Radionuclide Production Cross Section -19.57 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 15.360 MeV
n-Hg200.jeff3.3 Threshold 15.360 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
80-Hg-200

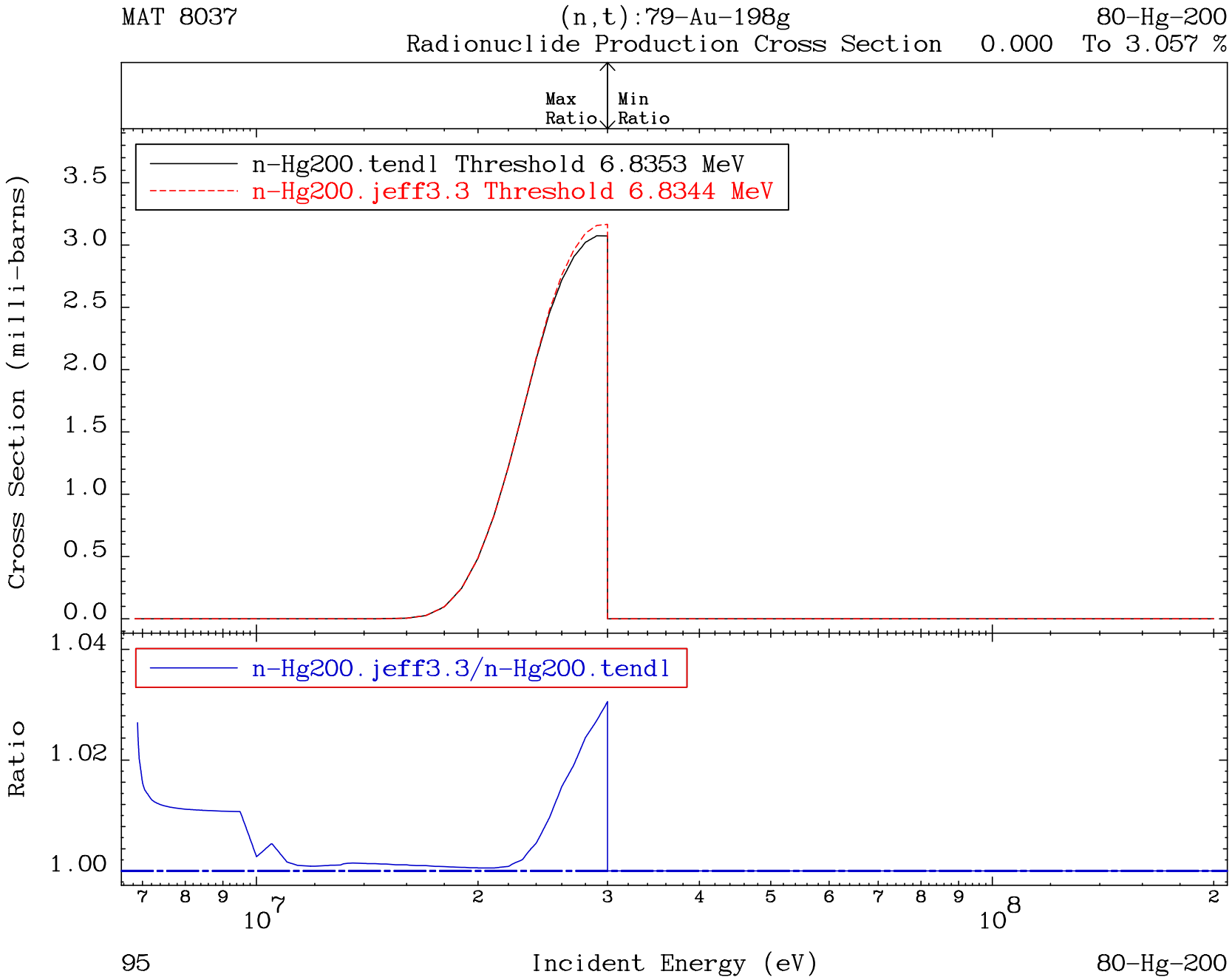

MAT 8037
(n,2n) p:79-Au-198m5
80-Hg-200
Radionuclide Production Cross Section
-14.63 To 0.000 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 17.000 MeV
n-Hg200.jeff3.3 Threshold 17.000 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
80-Hg-200

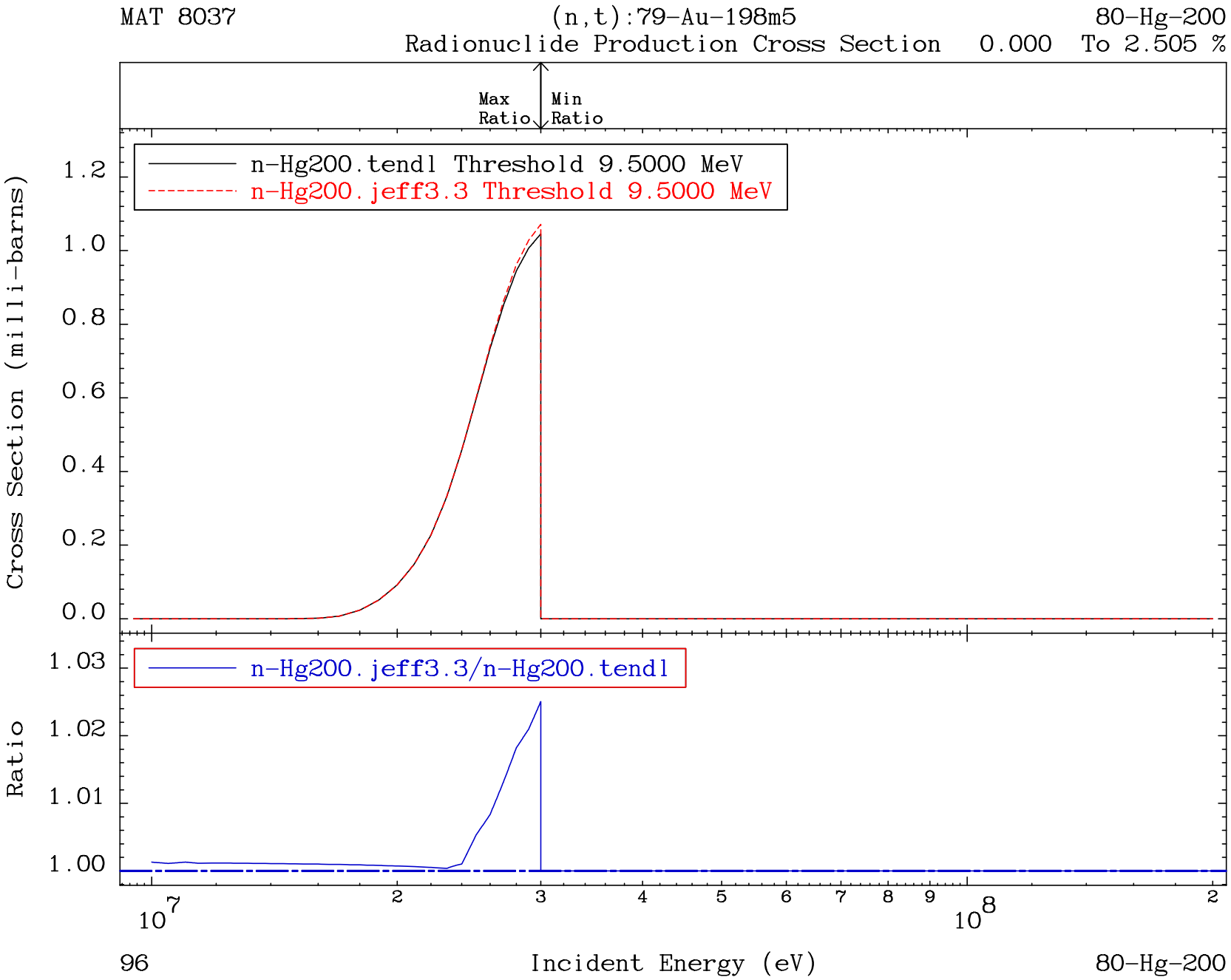

MAT 8037
(n,3n) p:79-Au-197g
80-Hg-200
Radionuclide Production Cross Section -16.45 To 0.000 %
Max
Ratio
n-Hg200.tendl Threshold 21.905 MeV
n-Hg200.jeff3.3 Threshold 21.905 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
12
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
0.90
20
40
60
80
100
120
140
160
180
200
91
Incident Energy (MeV)
80-Hg-200

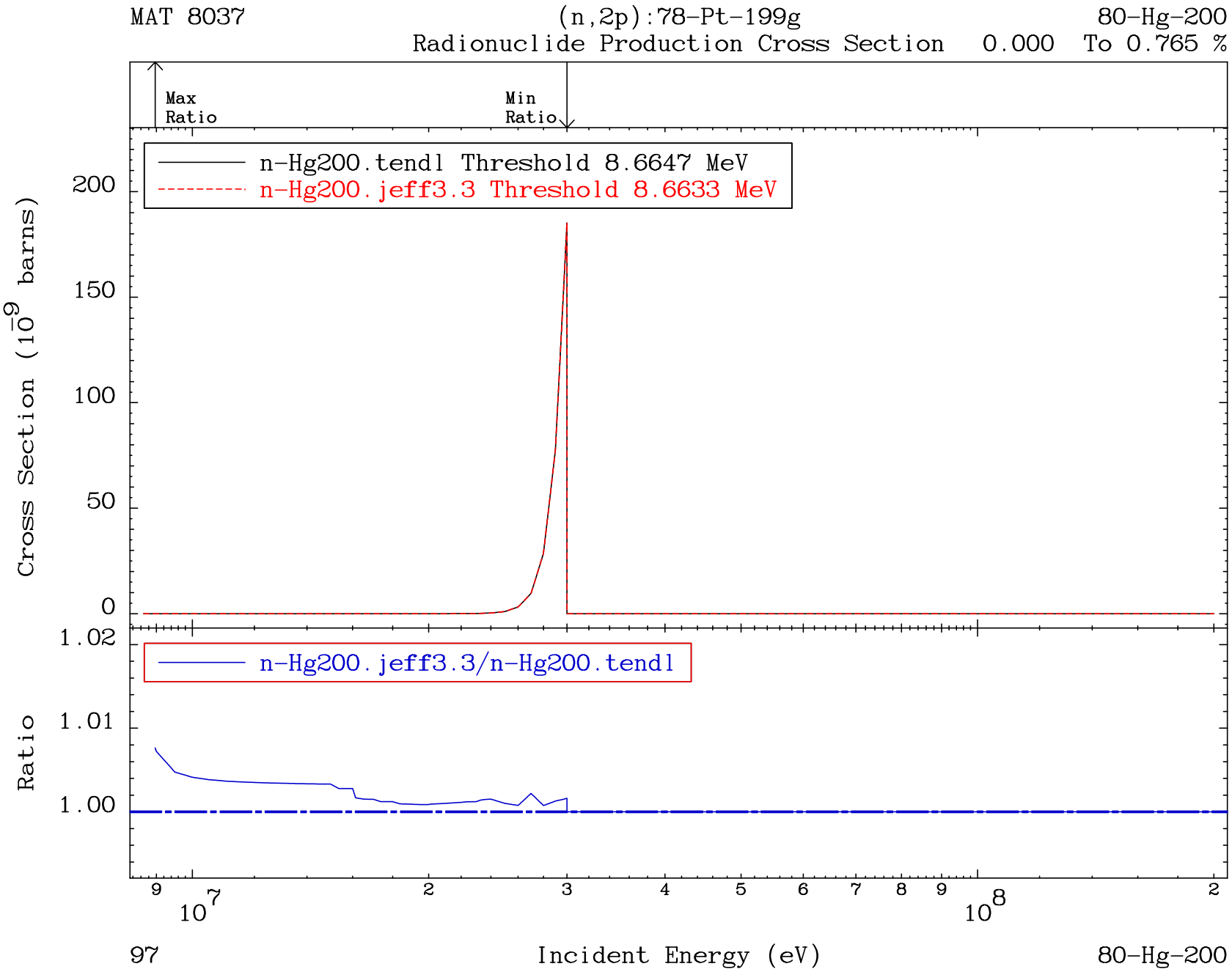

MAT 8037
(n,3n) p:79-Au-197m4
80-Hg-200
Radionuclide Production Cross Section
-22.42 To 0.000 %
Max
Ratio
n-Hg200.tendl Threshold 22.316 MeV
n-Hg200.jeff3.3 Threshold 22.316 MeV
Cross Section (micro-barns)
0
2
4
6
8
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
0.8
0.9
1.0
40
60
80
100
120
140
160
180
200
92
Incident Energy (MeV)
80-Hg-200

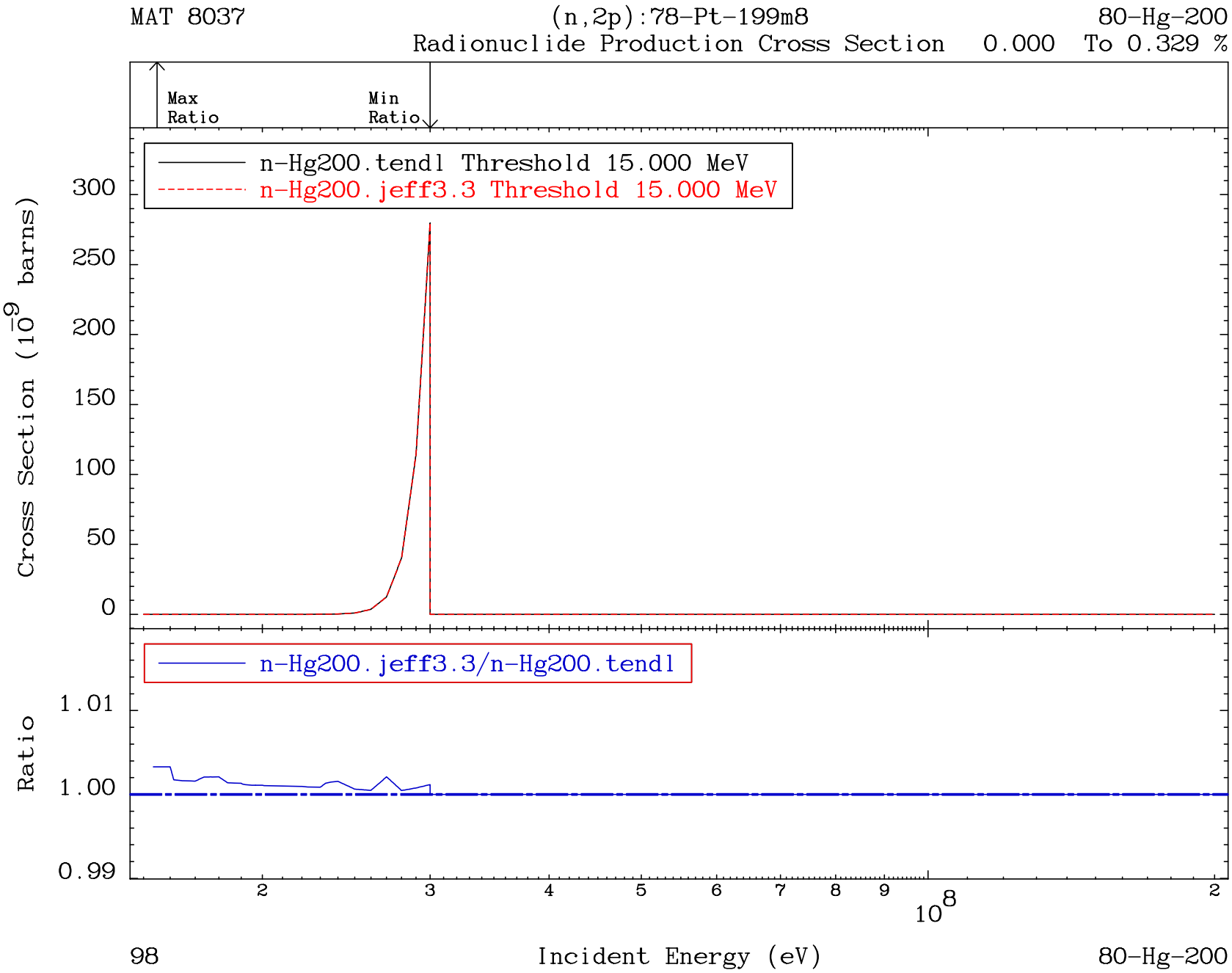

MAT 8037
(n,p):79-Au-200g
80-Hg-200
Radionuclide Production Cross Section
-3.515 To 1.874 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.4883 MeV
n-Hg200.jeff3.3 Threshold 1.4885 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.02
1.00
0.98
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
93
Incident Energy (eV)
80-Hg-200

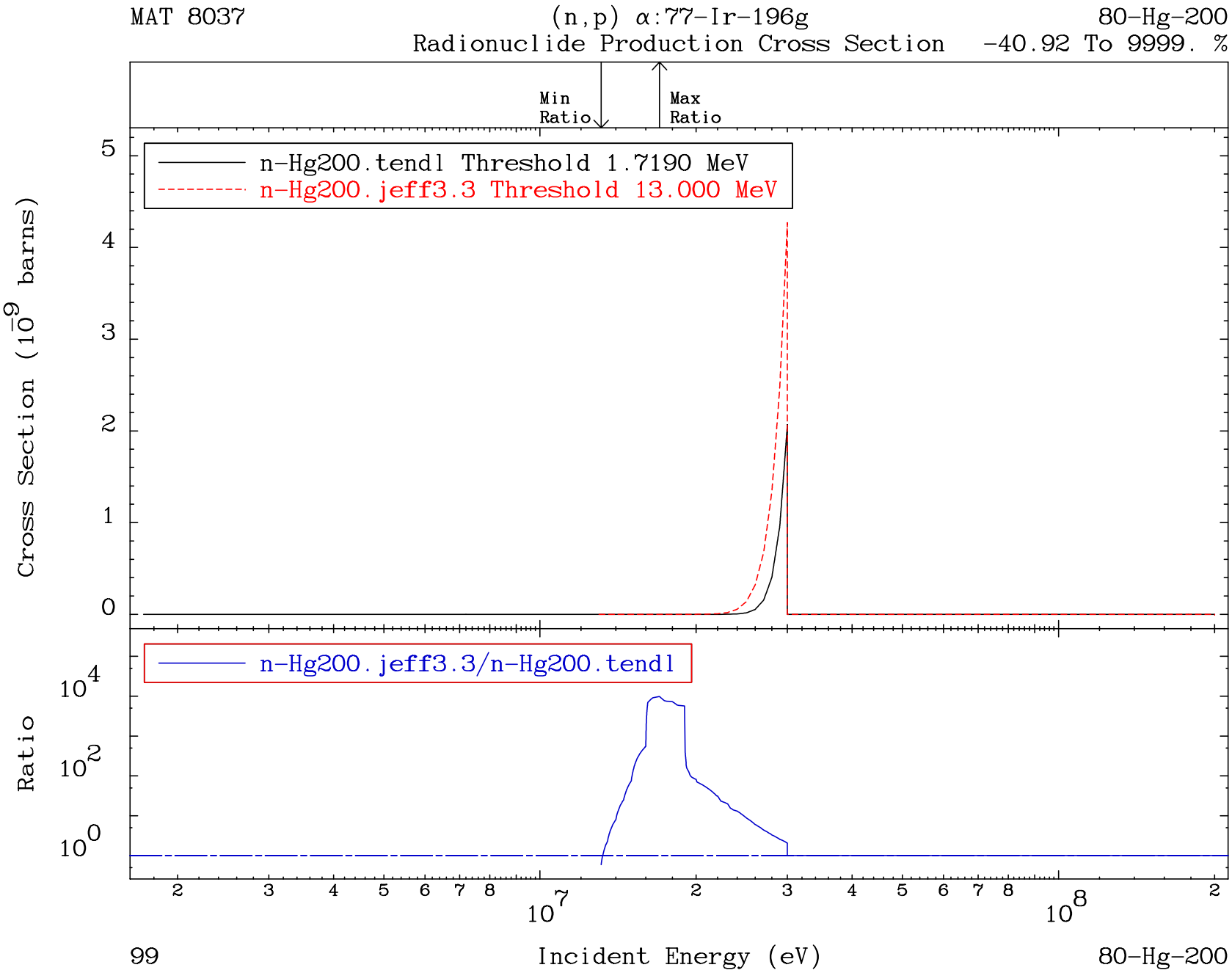

MAT 8037
(n,p):79-Au-200m11
80-Hg-200
Radionuclide Production Cross Section
-0.033 To 2.267 %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 3.6000 MeV
n-Hg200.jeff3.3 Threshold 3.6000 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.00
1.01
1.02
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
94
Incident Energy (eV)
80-Hg-200

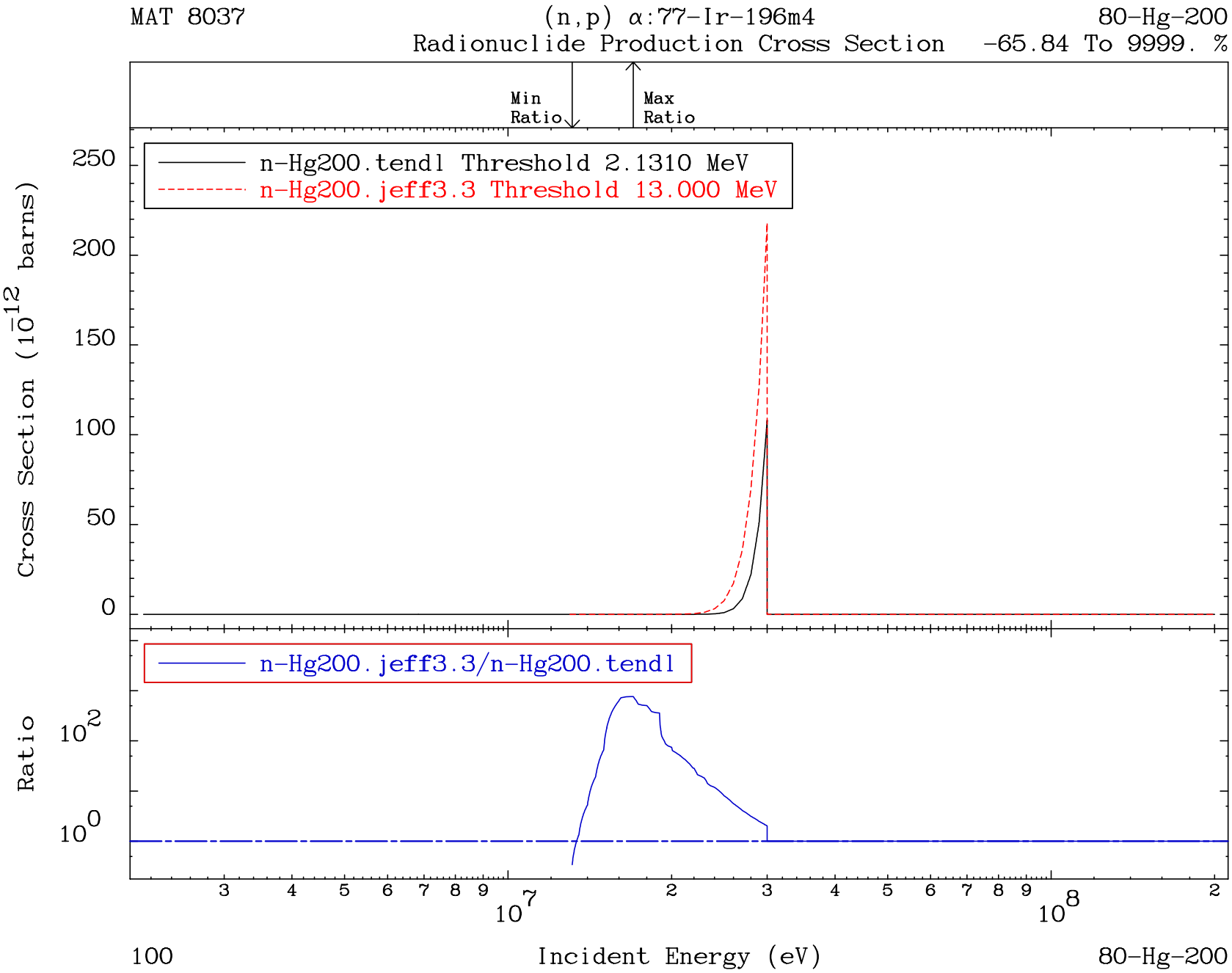

MAT 8037
(n,t):79-Au-198g
80-Hg-200
Radionuclide Production Cross Section 0.000 To 3.057 %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 6.8353 MeV
n-Hg200.jeff3.3 Threshold 6.8344 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
Ratio
n-Hg200.jeff3.3/n-Hg200.tendl
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
95
Incident Energy (eV)
80-Hg-200


MAT 8037
(n,t):79-Au-198m5
80-Hg-200
Radionuclide Production Cross Section 0.000 To 2.505 %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 9.5000 MeV
n-Hg200.jeff3.3 Threshold 9.5000 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.03
1.02
1.01
1.00
10^7
2
3
4
5
6
7
8
9
10^8
2
96
Incident Energy (eV)
80-Hg-200


MAT 8037
(n,2p):78-Pt-199g
80-Hg-200
Radionuclide Production Cross Section 0.000 To 0.765 %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 8.6647 MeV
n-Hg200.jeff3.3 Threshold 8.6633 MeV
Cross Section (10^{-9} barns)
200
150
100
50
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.02
1.01
1.00
9
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
97
Incident Energy (eV)
80-Hg-200


MAT 8037
(n,2p):78-Pt-199m8
80-Hg-200
Radionuclide Production Cross Section 0.000 To 0.329 %
Max Ratio
Min Ratio
n-Hg200.tendl Threshold 15.000 MeV
n-Hg200.jeff3.3 Threshold 15.000 MeV
Cross Section (10^{-9} barns)
300
250
200
150
100
50
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^{8}
2
98
Incident Energy (eV)
80-Hg-200


MAT 8037
(n,p) α:77-Ir-196g
80-Hg-200
Radionuclide Production Cross Section -40.92 To 9999. %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 1.7190 MeV
n-Hg200.jeff3.3 Threshold 13.000 MeV
Cross Section (10^{-9} barns)
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
Incident Energy (eV)
99
80-Hg-200


MAT 8037
(n,p) α:77-Ir-196m4
80-Hg-200
Radionuclide Production Cross Section -65.84 To 9999. %
Min Ratio
Max Ratio
n-Hg200.tendl Threshold 2.1310 MeV
n-Hg200.jeff3.3 Threshold 13.000 MeV
Cross Section (10^{-12} barns)
250
200
150
100
50
0
n-Hg200.jeff3.3/n-Hg200.tendl
Ratio
10^{2}
10^{0}
3 4 5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
100
Incident Energy (eV)
80-Hg-200