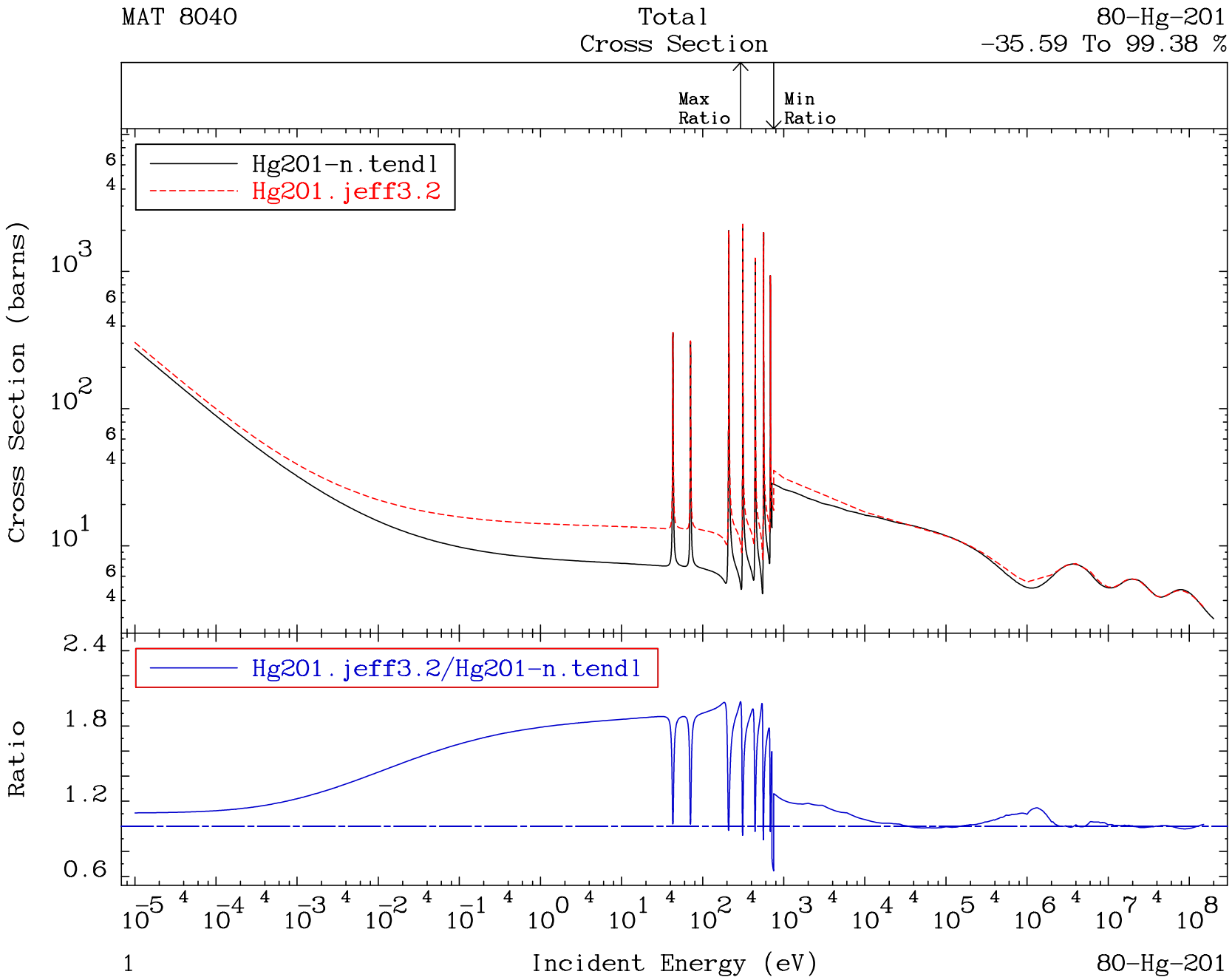
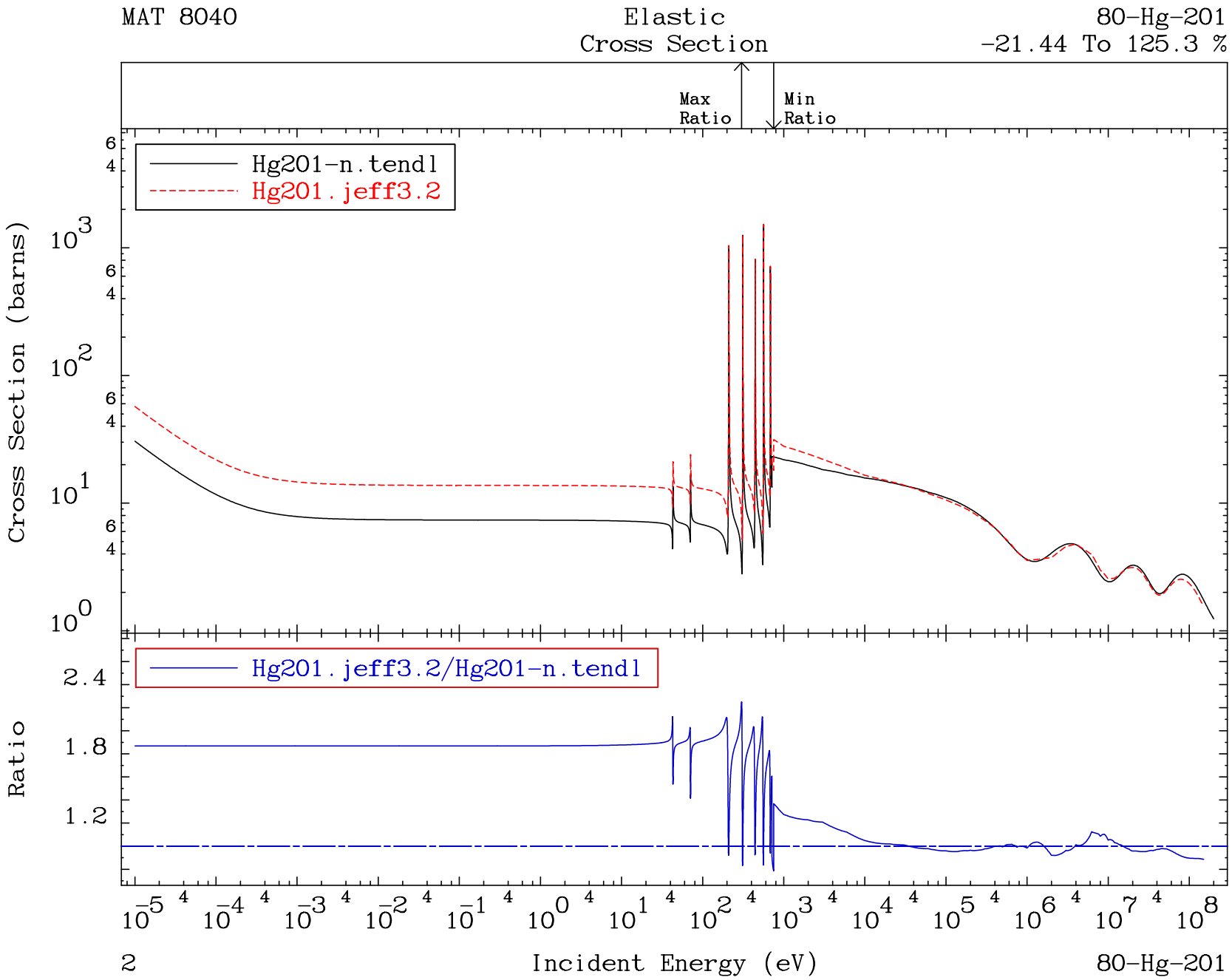
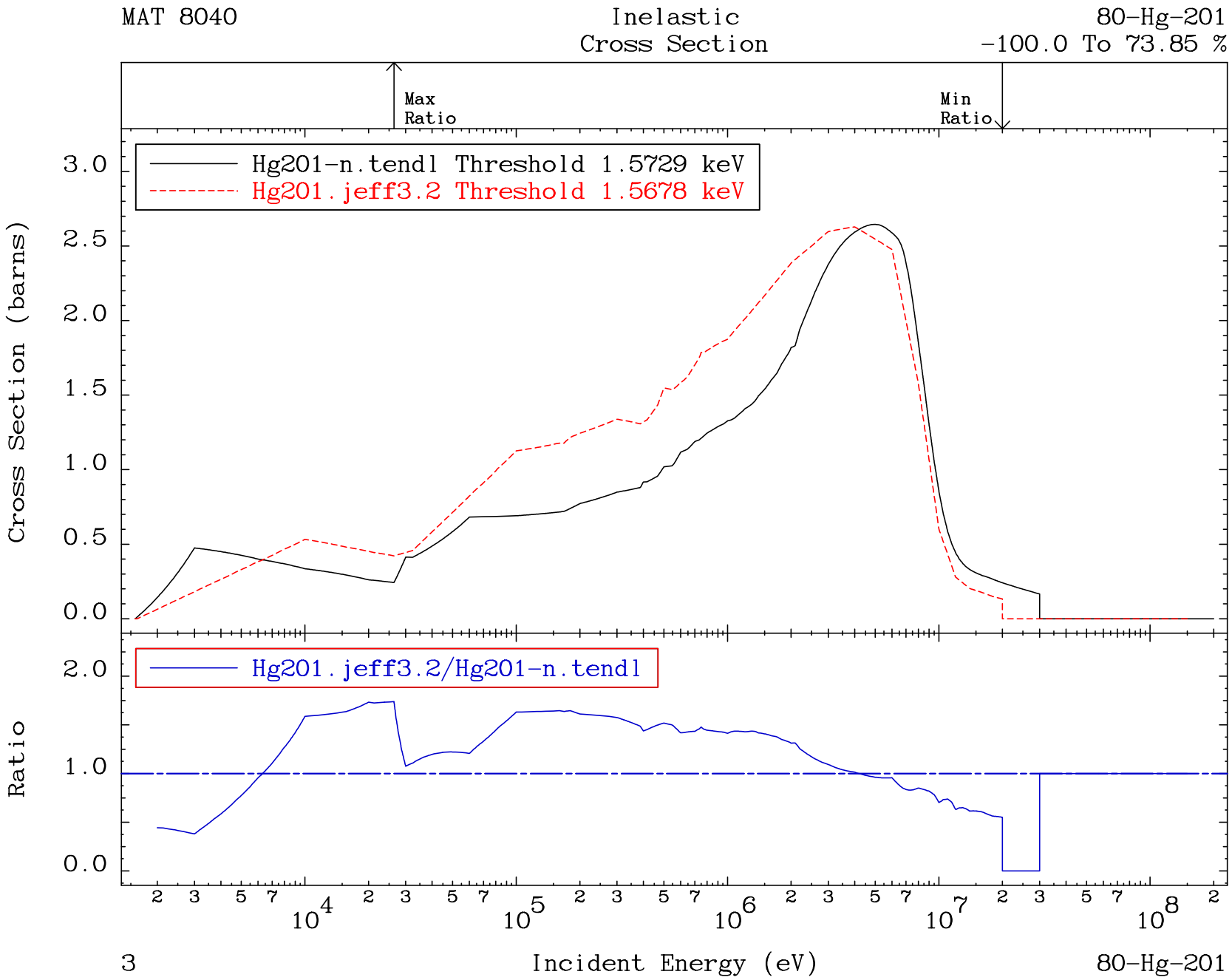
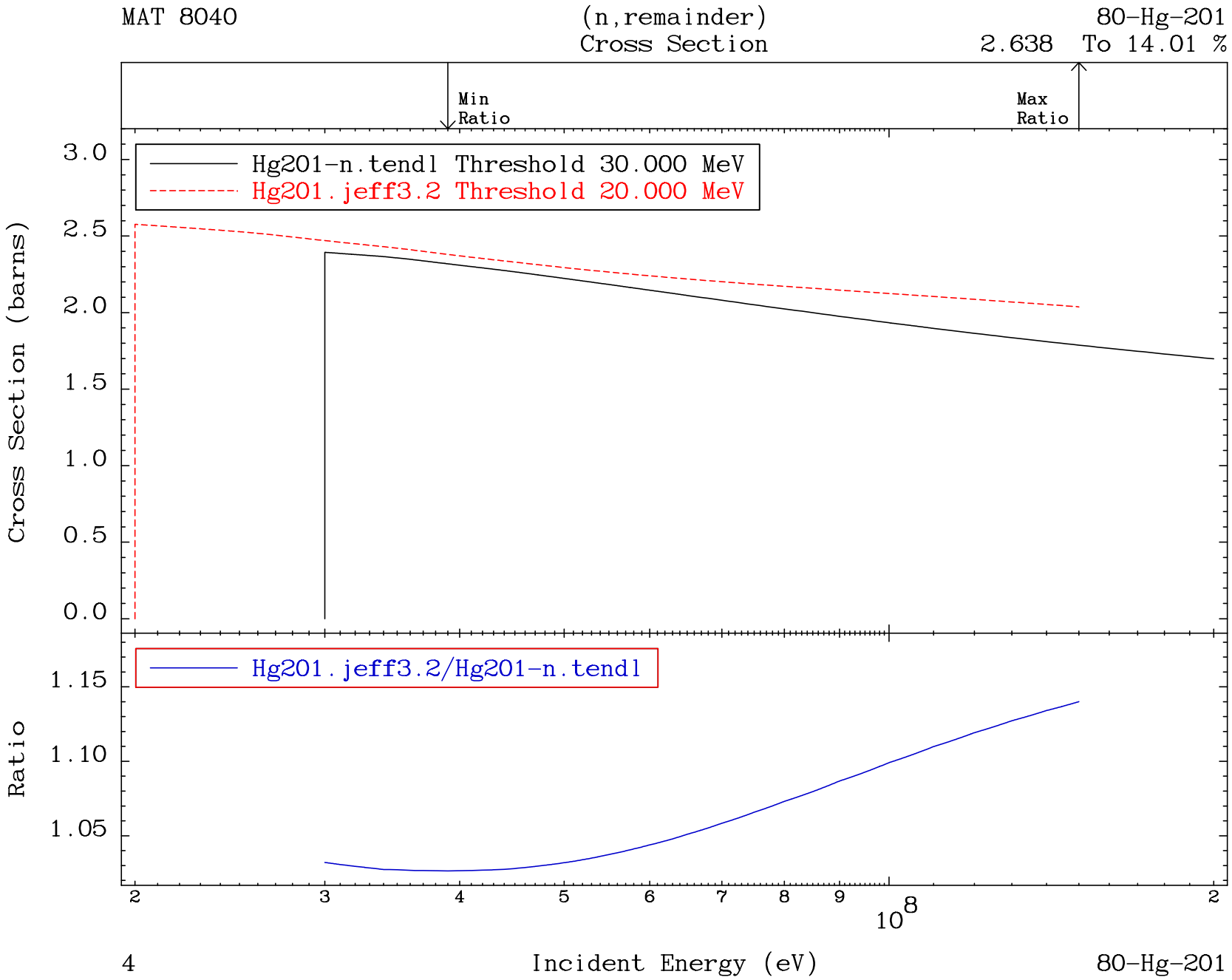
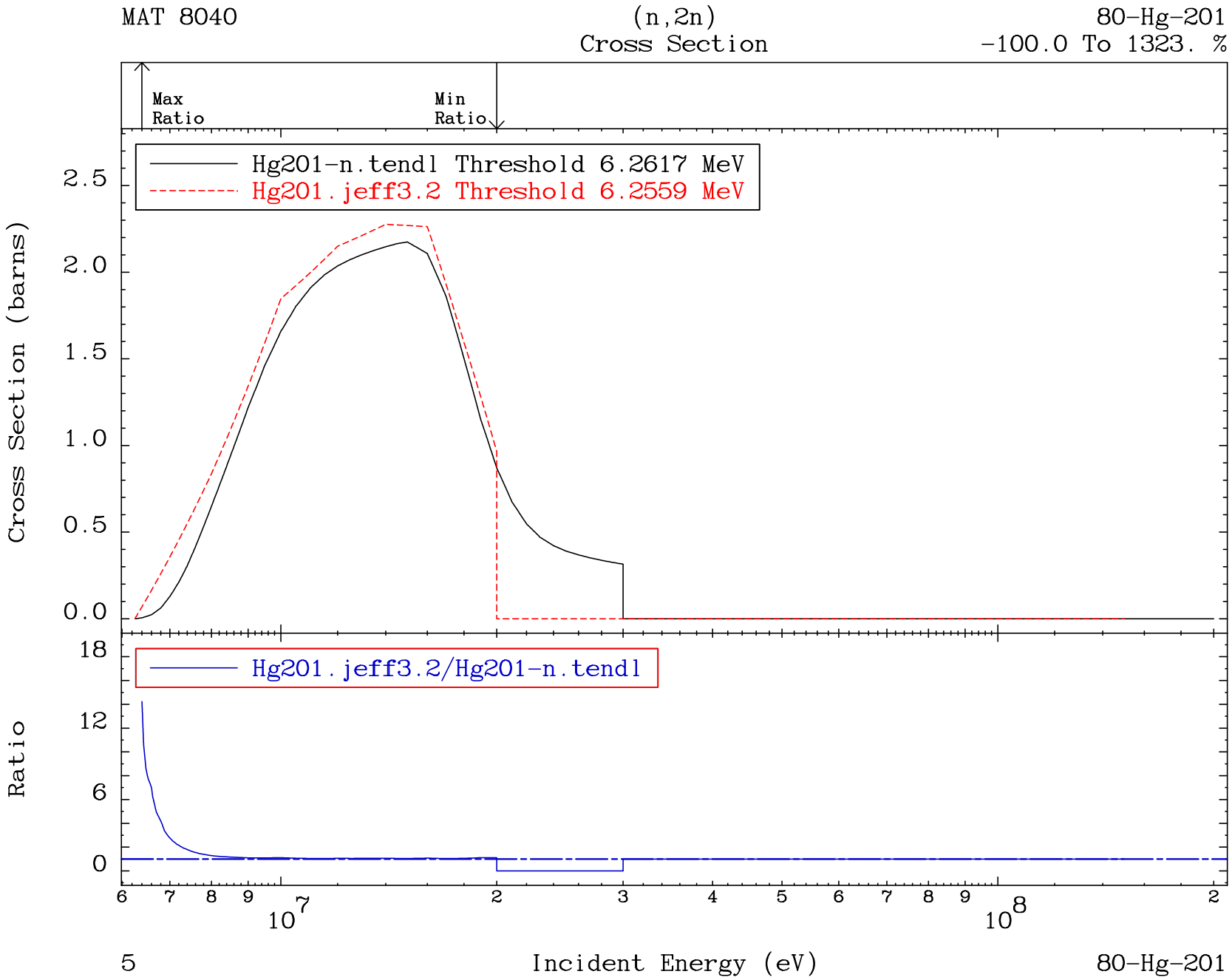
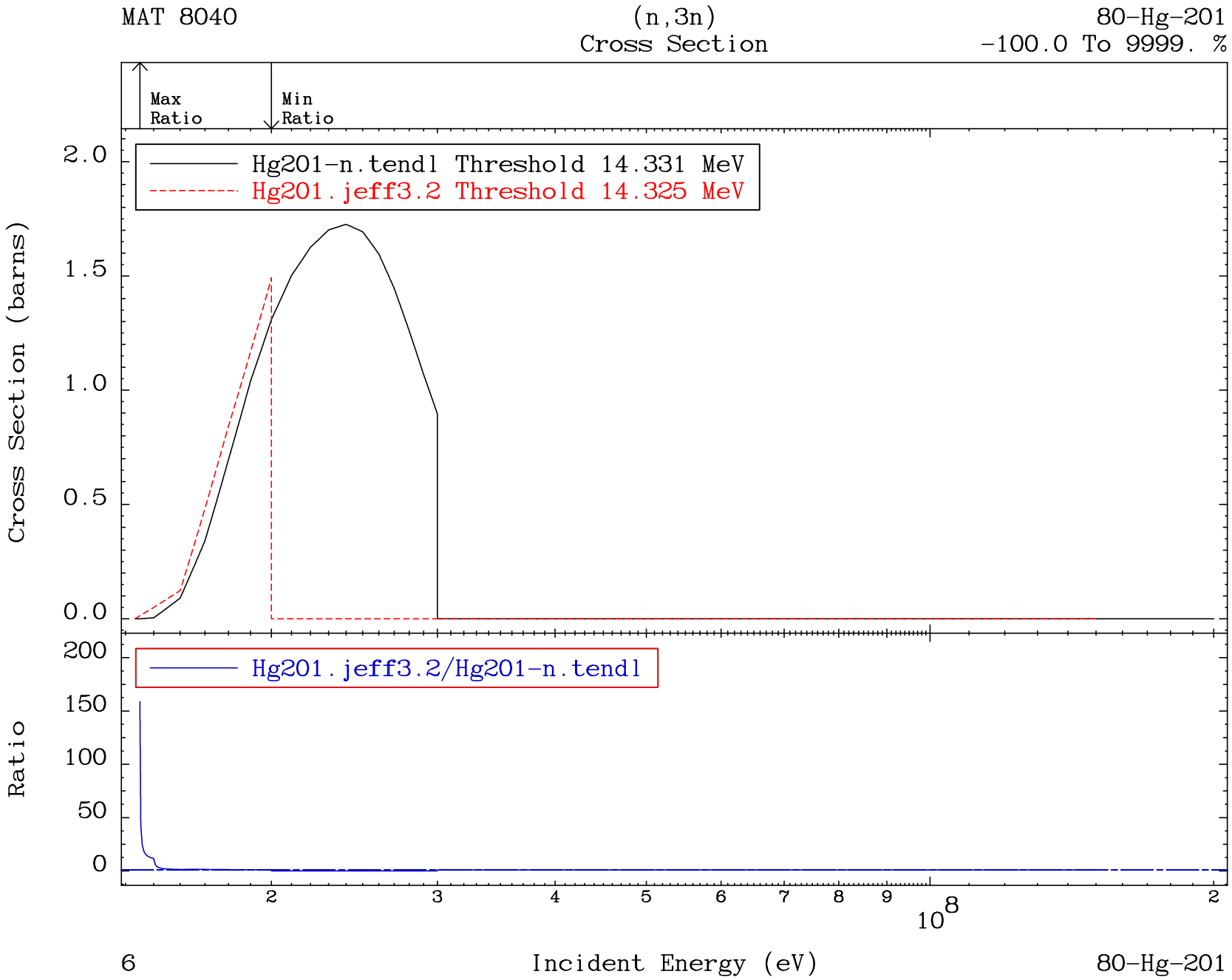

MAT 8040
Total
Cross Section
80-Hg-201
-35.59 To 99.38 %
Max
Ratio
Min
Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
1
80-Hg-201

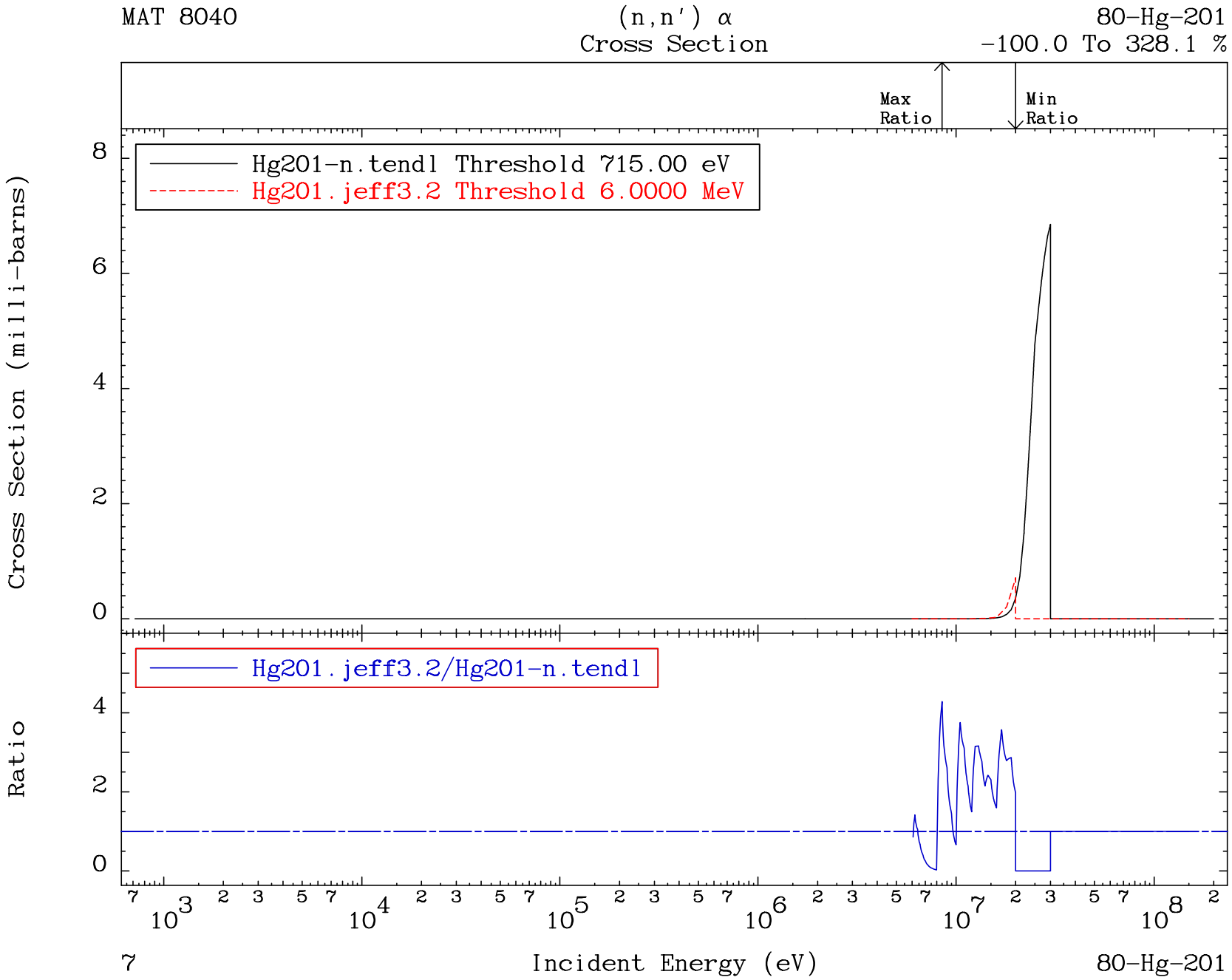

MAT 8040
Elastic
Cross Section
80-Hg-201
-21.44 To 125.3 %
Max
Ratio
Min
Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
2
80-Hg-201

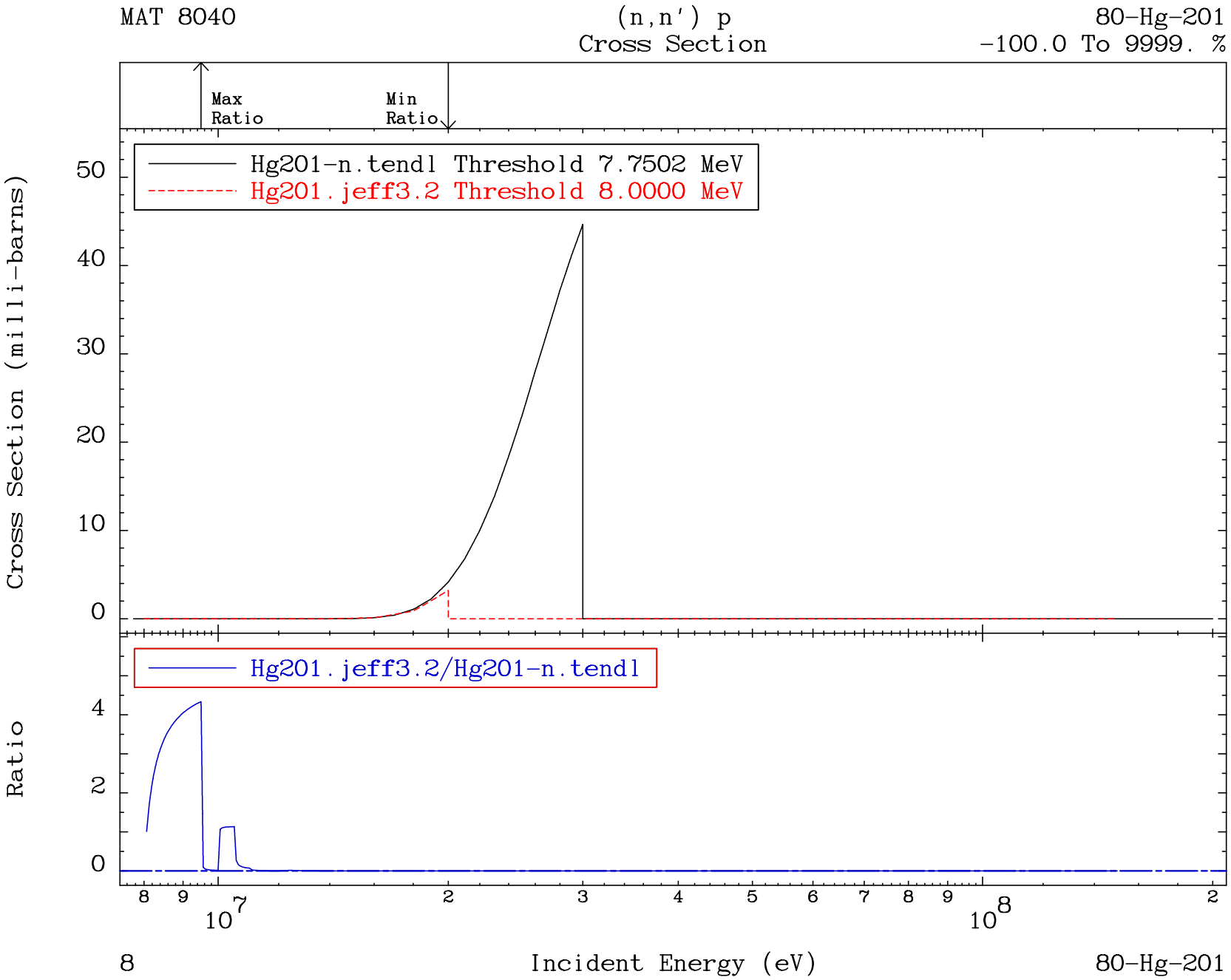

MAT 8040
Inelastic
Cross Section
80-Hg-201
-100.0 To 73.85 %
Max
Ratio
Min
Ratio
Hg201-n.tendl Threshold 1.5729 keV
Hg201.jeff3.2 Threshold 1.5678 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
2.0
1.0
0.0
2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
3
Incident Energy (eV)
80-Hg-201

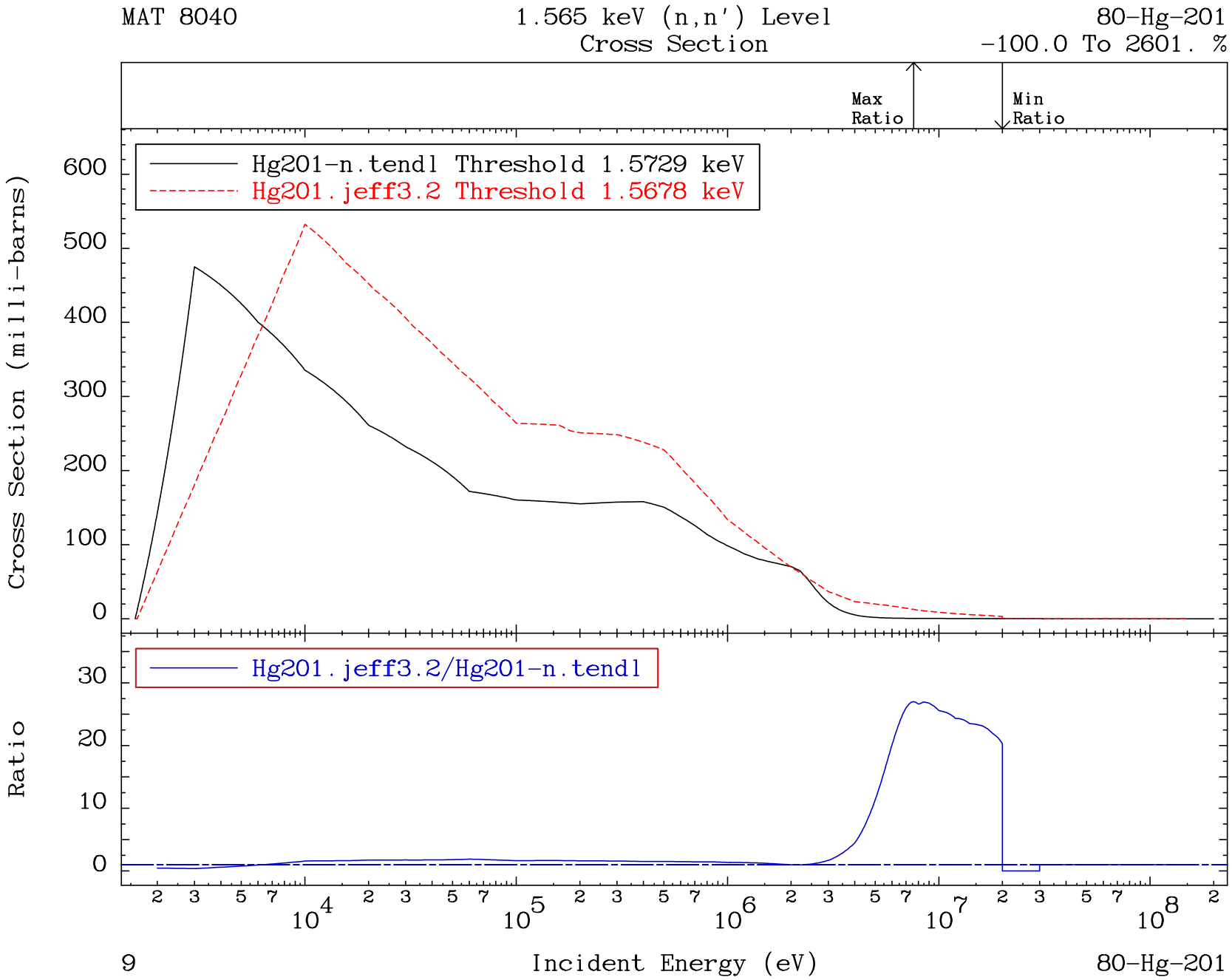

MAT 8040
(n,remainder)
Cross Section
80-Hg-201
2.638 To 14.01 %
Min Ratio
Max Ratio
Hg201-n.tendl Threshold 30.000 MeV
Hg201.jeff3.2 Threshold 20.000 MeV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
1.15
1.10
1.05
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
80-Hg-201

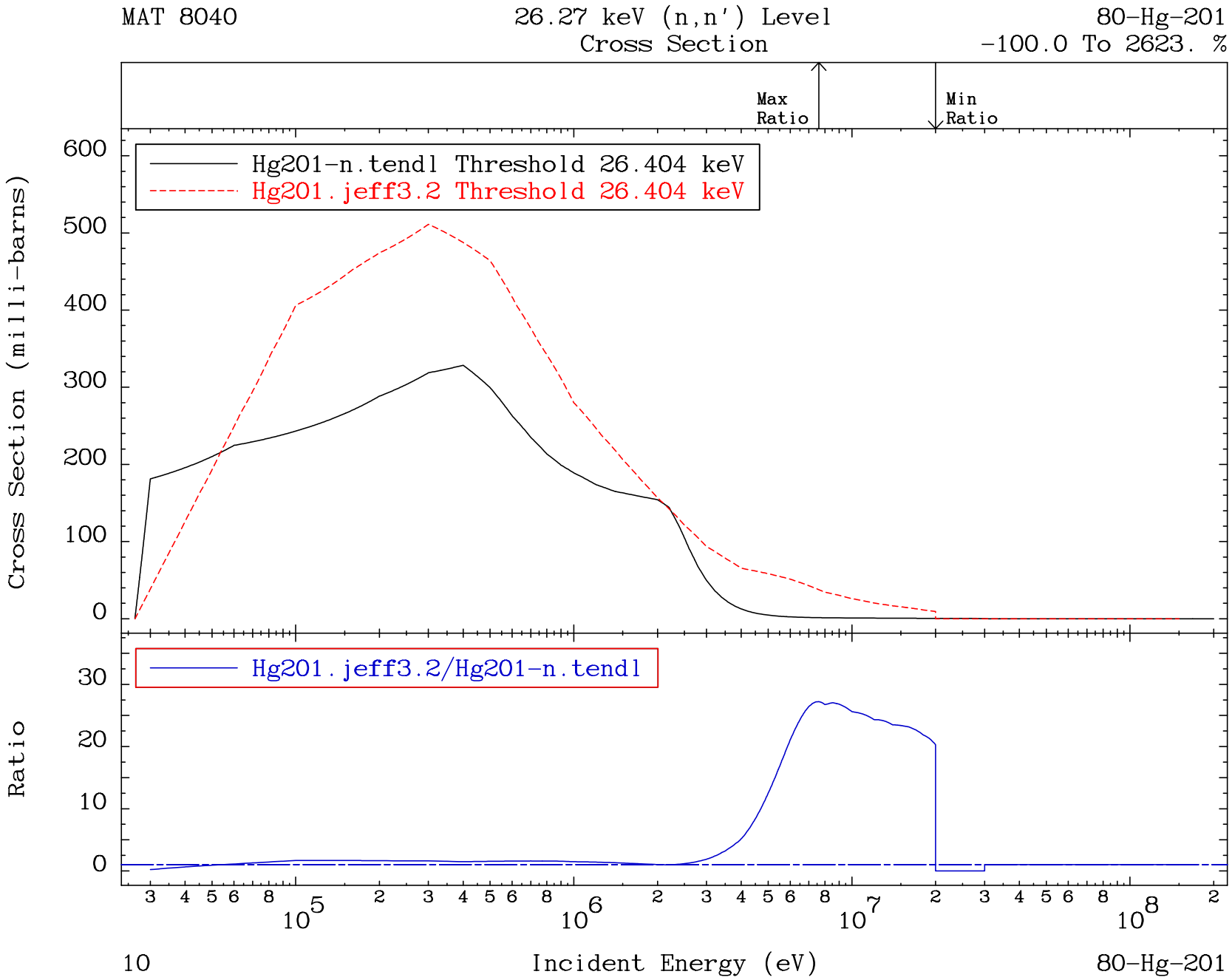

MAT 8040
(n,2n)
Cross Section
80-Hg-201
-100.0 To 1323. %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 6.2617 MeV
Hg201.jeff3.2 Threshold 6.2559 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
18
12
6
0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
80-Hg-201

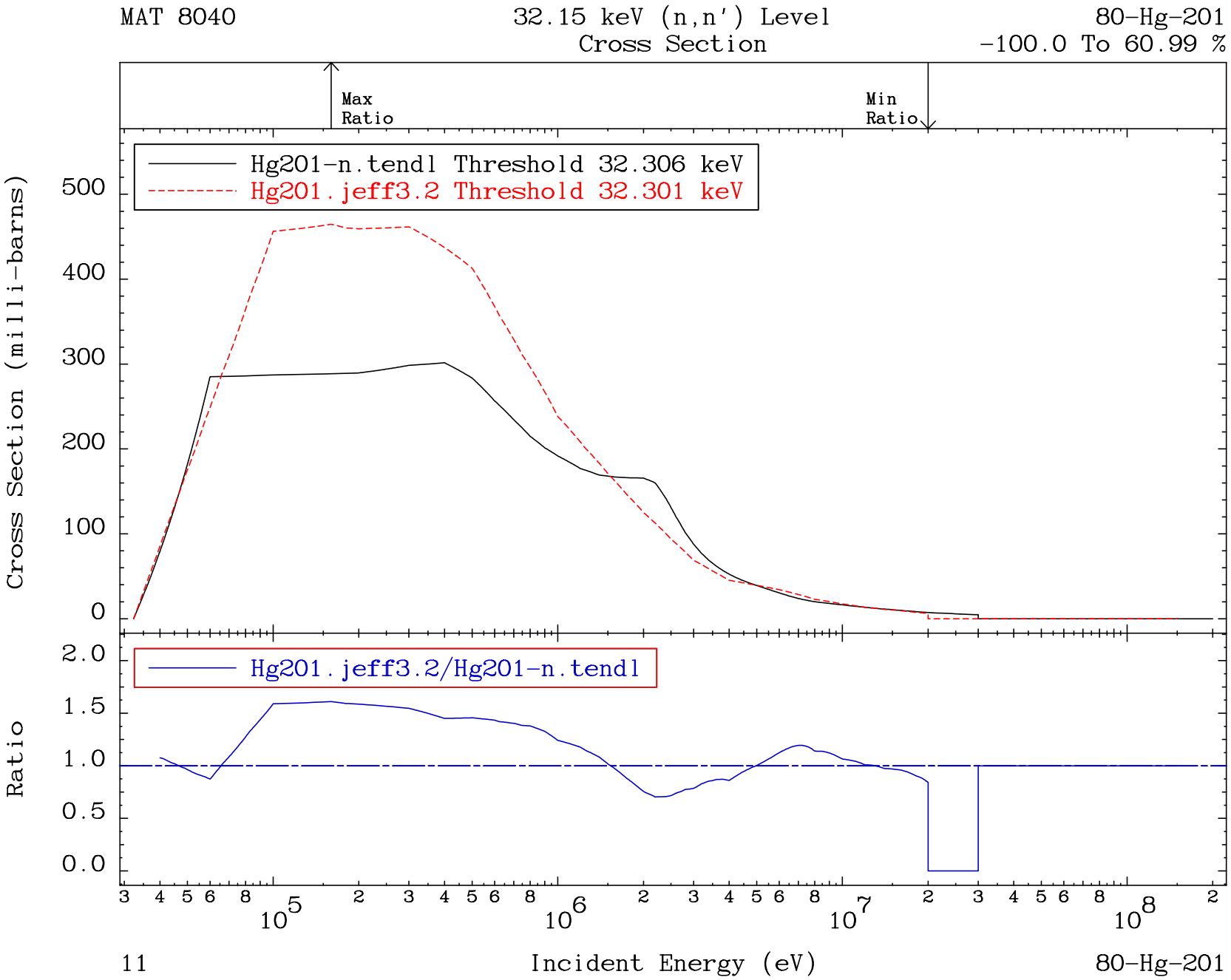

MAT 8040
(n,3n)
Cross Section
80-Hg-201
-100.0 To 9999. %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 14.331 MeV
Hg201.jeff3.2 Threshold 14.325 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
200
150
100
50
0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
80-Hg-201

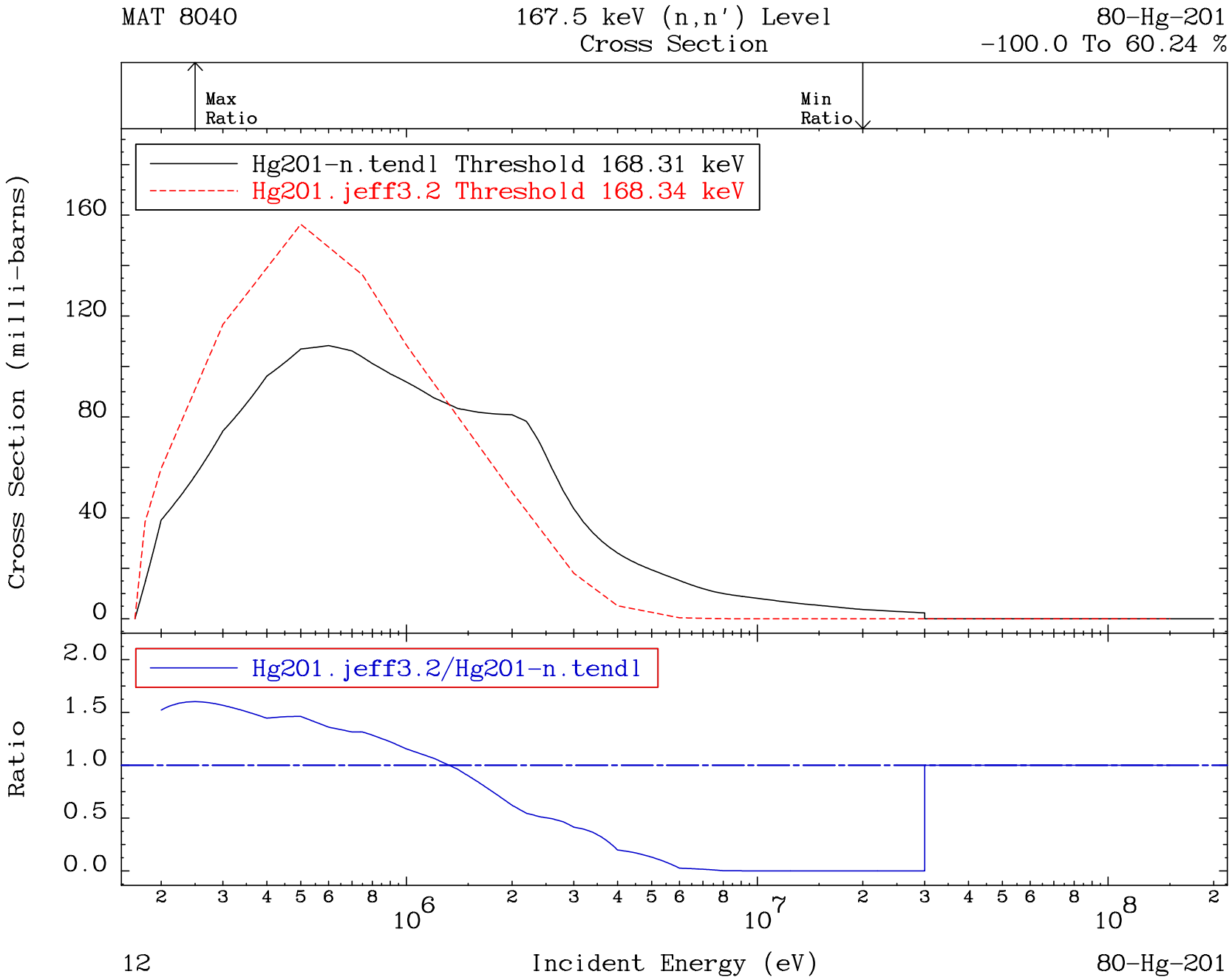

MAT 8040
(n,n') α
Cross Section
80-Hg-201
-100.0 To 328.1 %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 715.00 eV
Hg201.jeff3.2 Threshold 6.0000 MeV
Cross Section (milli-barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
80-Hg-201

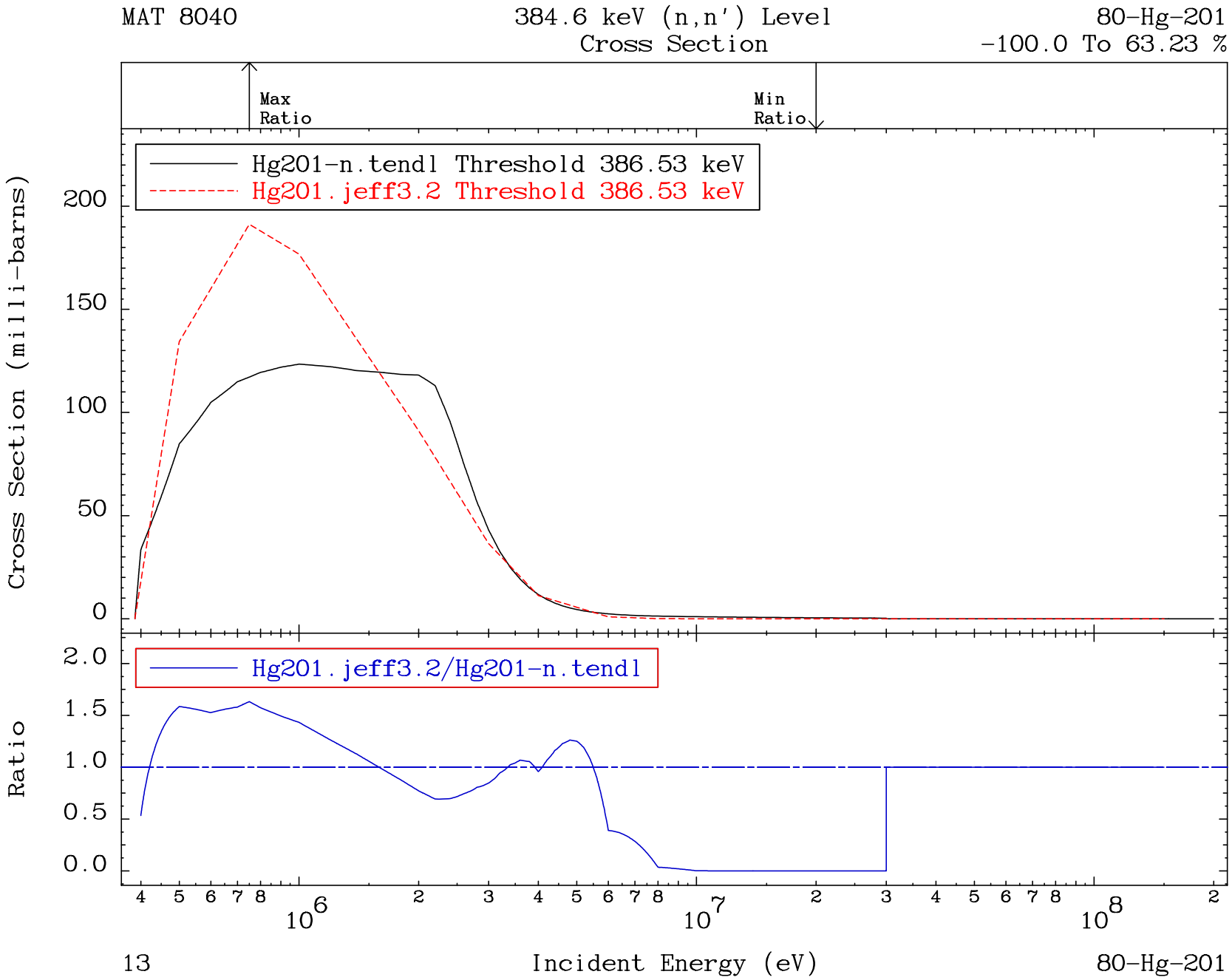

MAT 8040
(n,n') p
Cross Section
80-Hg-201
-100.0 To 9999. %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 7.7502 MeV
Hg201.jeff3.2 Threshold 8.0000 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
4
2
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
80-Hg-201

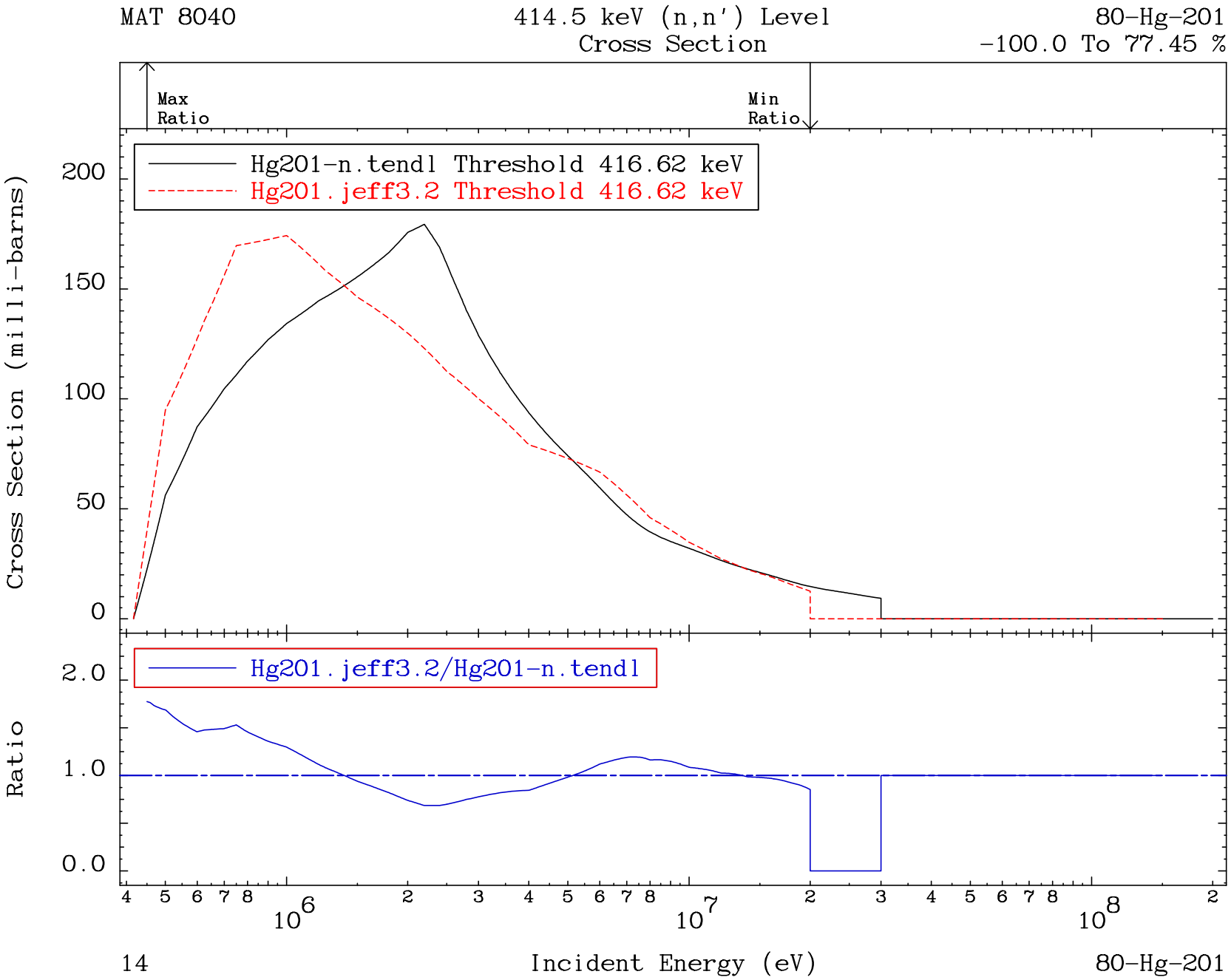

MAT 8040
1.565 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 2601. %
Max
Ratio
Min
Ratio
Hg201-n.tendl Threshold 1.5729 keV
Hg201.jeff3.2 Threshold 1.5678 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
30
20
10
0
2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
9
Incident Energy (eV)
80-Hg-201

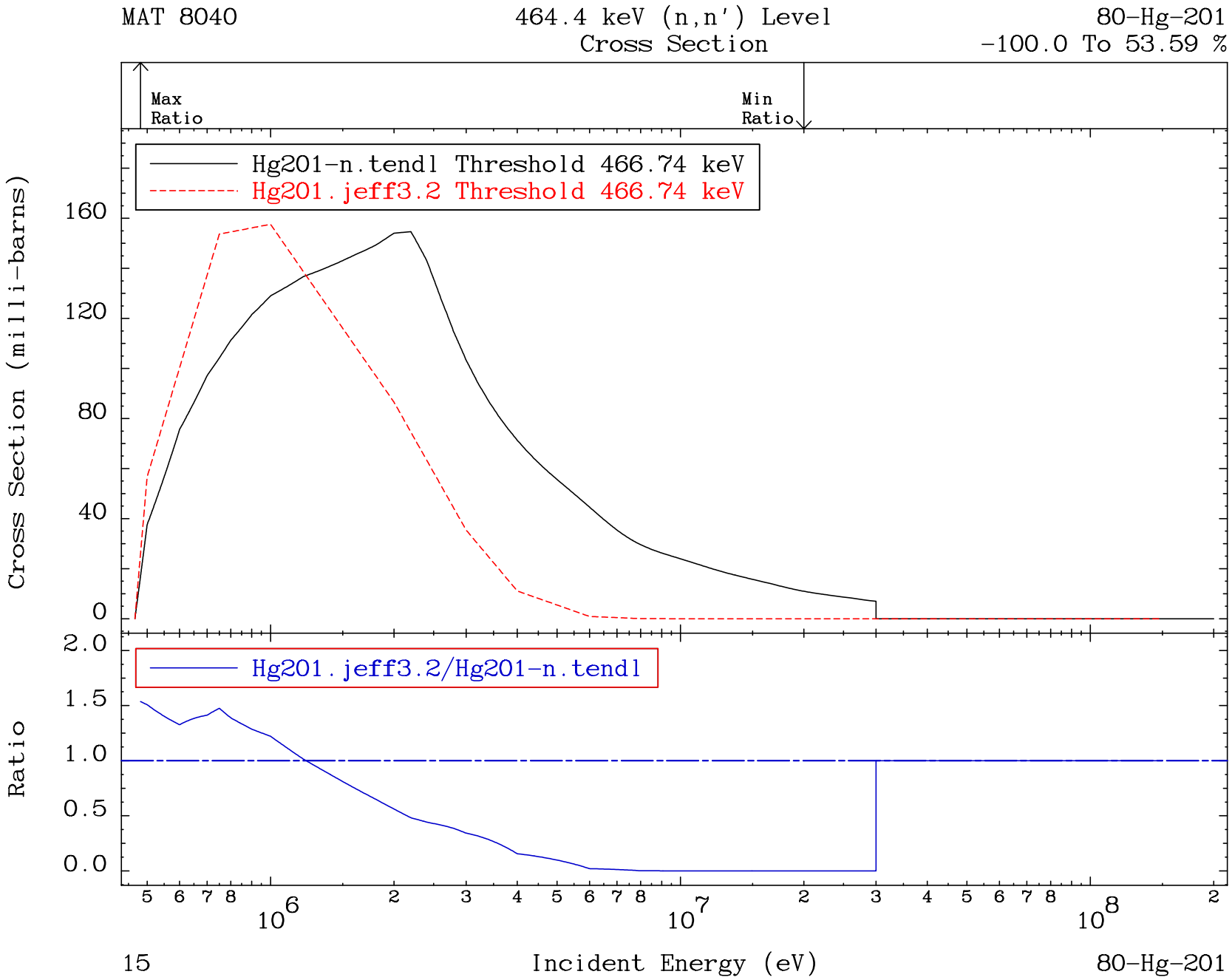

MAT 8040
26.27 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 2623. %
Max
Ratio
Min
Ratio
Hg201-n.tendl Threshold 26.404 keV
Hg201.jeff3.2 Threshold 26.404 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
30
20
10
0
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
80-Hg-201

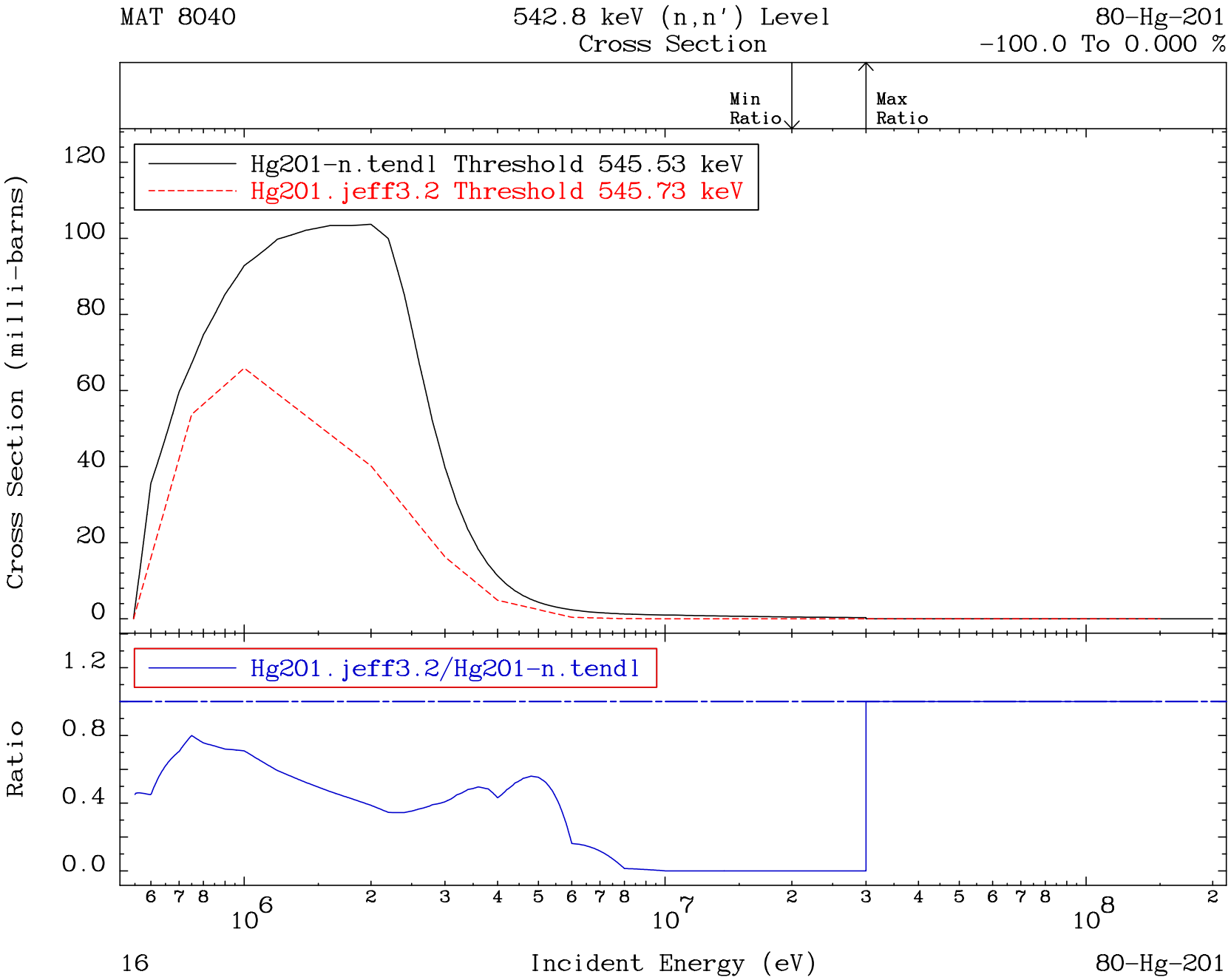

MAT 8040
32.15 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 60.99 %
Max
Ratio
Min
Ratio
Hg201-n.tendl Threshold 32.306 keV
Hg201.jeff3.2 Threshold 32.301 keV
Cross Section (milli-barns)
500
400
300
200
100
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
2.0
1.5
1.0
0.5
0.0
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
80-Hg-201

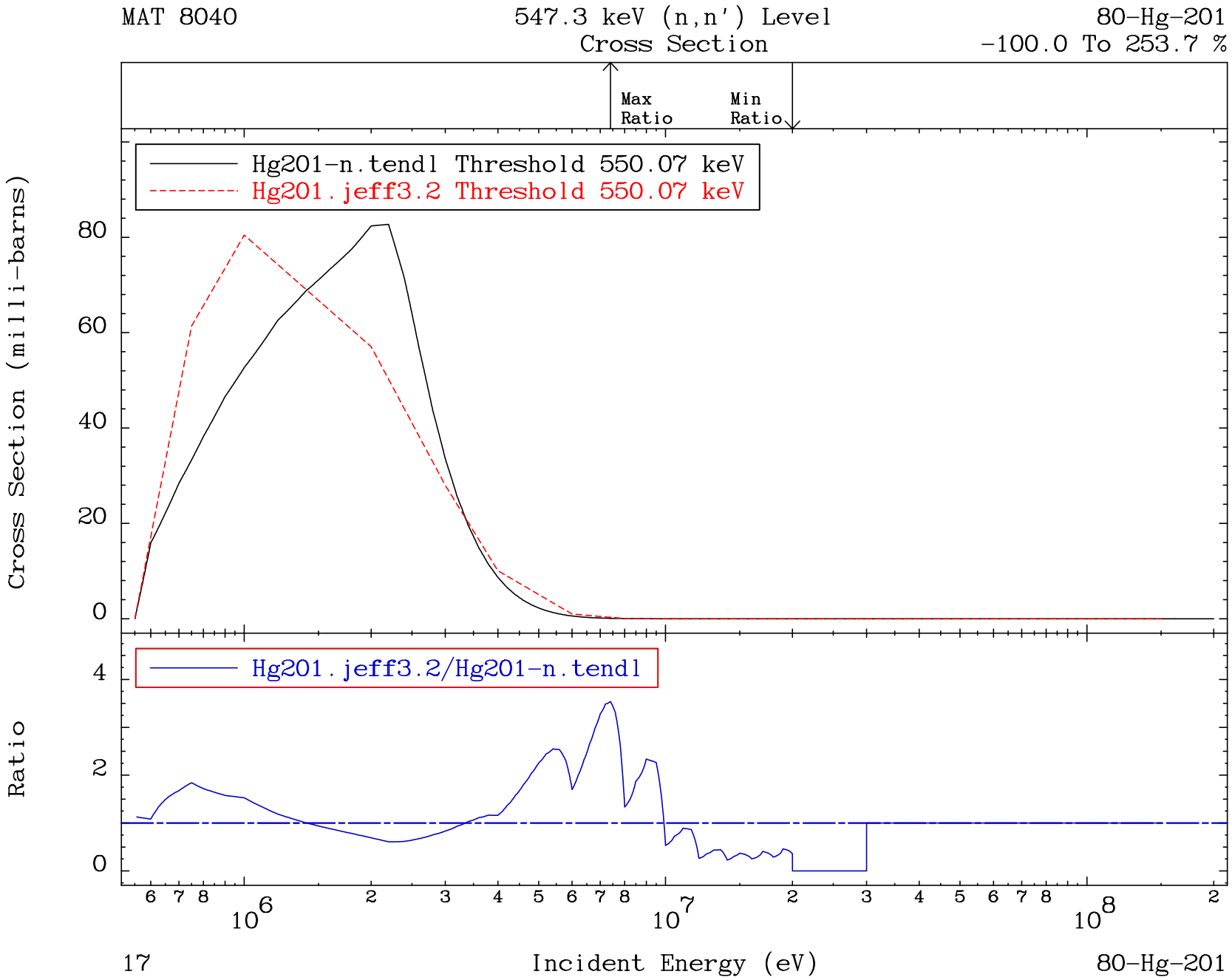

MAT 8040
167.5 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 60.24 %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 168.31 keV
Hg201.jeff3.2 Threshold 168.34 keV
Cross Section (milli-barns)
160
120
80
40
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
2.0
1.5
1.0
0.5
0.0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
80-Hg-201

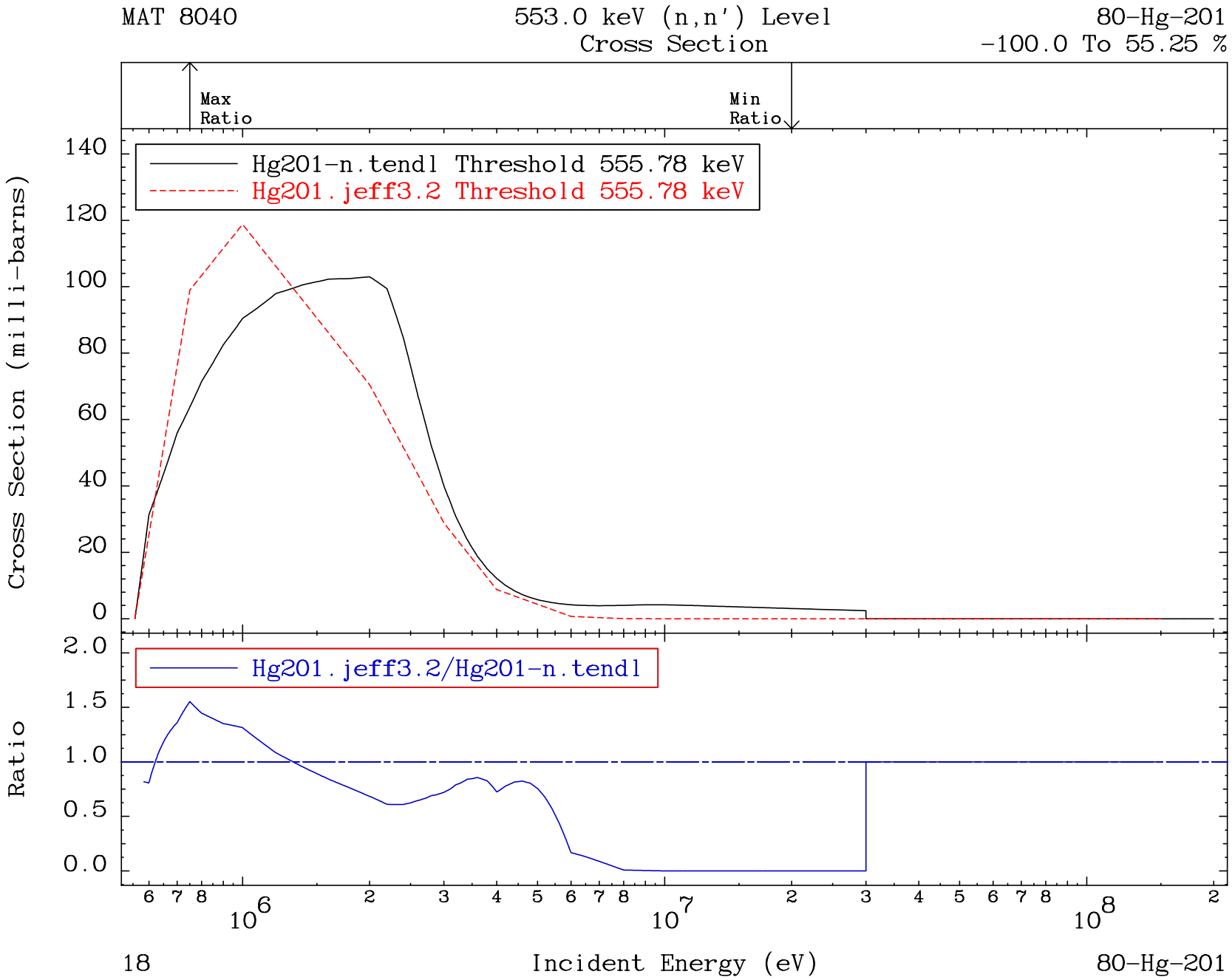

MAT 8040
384.6 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 63.23 %
Max
Ratio
Min
Ratio
Hg201-n.tendl Threshold 386.53 keV
Hg201.jeff3.2 Threshold 386.53 keV
Cross Section (milli-barns)
200
150
100
50
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
2.0
1.5
1.0
0.5
0.0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
80-Hg-201

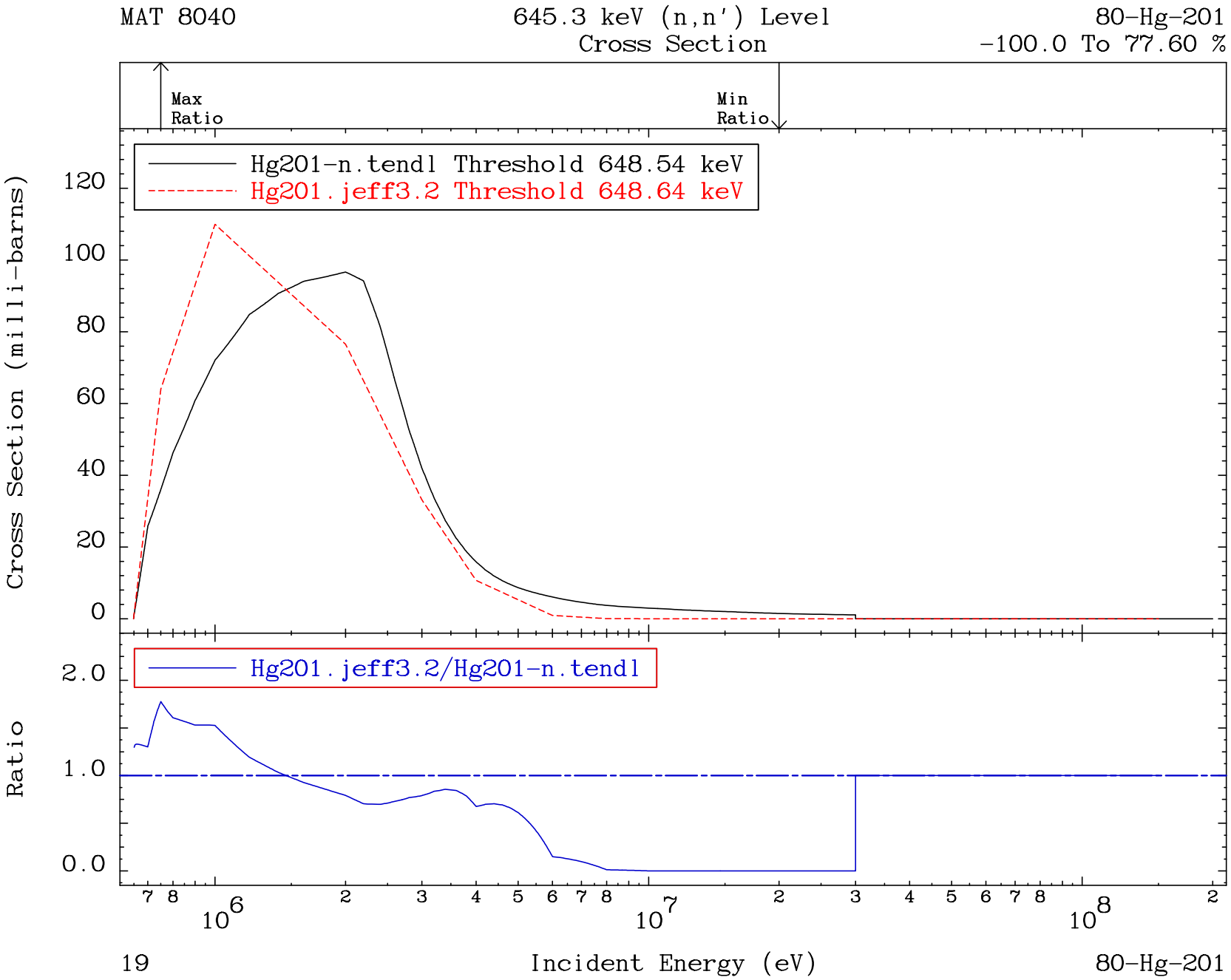

MAT 8040
414.5 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 77.45 %
Max
Ratio
Min
Ratio
Hg201-n.tendl Threshold 416.62 keV
Hg201.jeff3.2 Threshold 416.62 keV
Cross Section (milli-barns)
200
150
100
50
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
2.0
1.0
0.0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
80-Hg-201

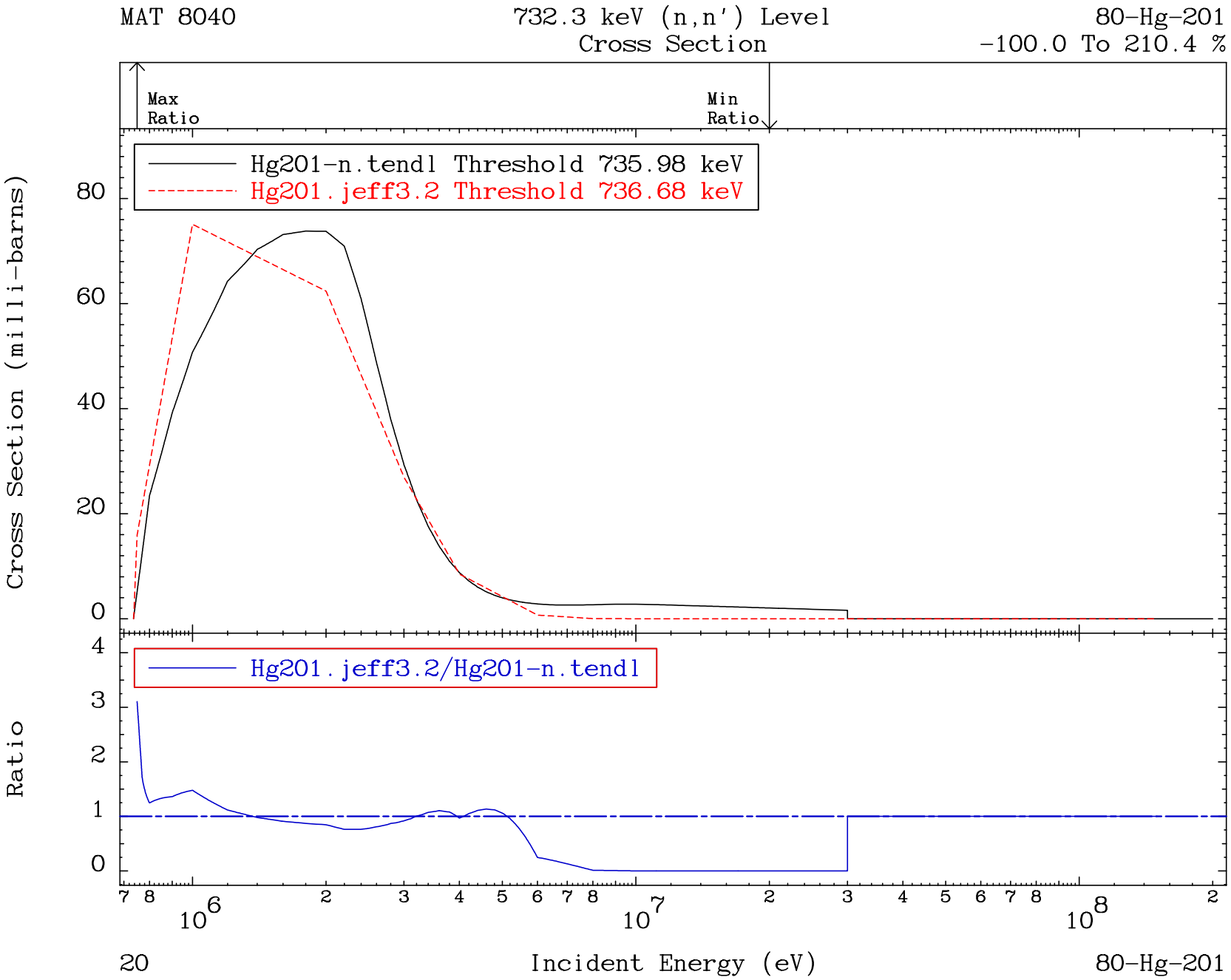

MAT 8040
464.4 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 53.59 %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 466.74 keV
Hg201.jeff3.2 Threshold 466.74 keV
Cross Section (milli-barns)
160
120
80
40
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
2.0
1.5
1.0
0.5
0.0
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
80-Hg-201

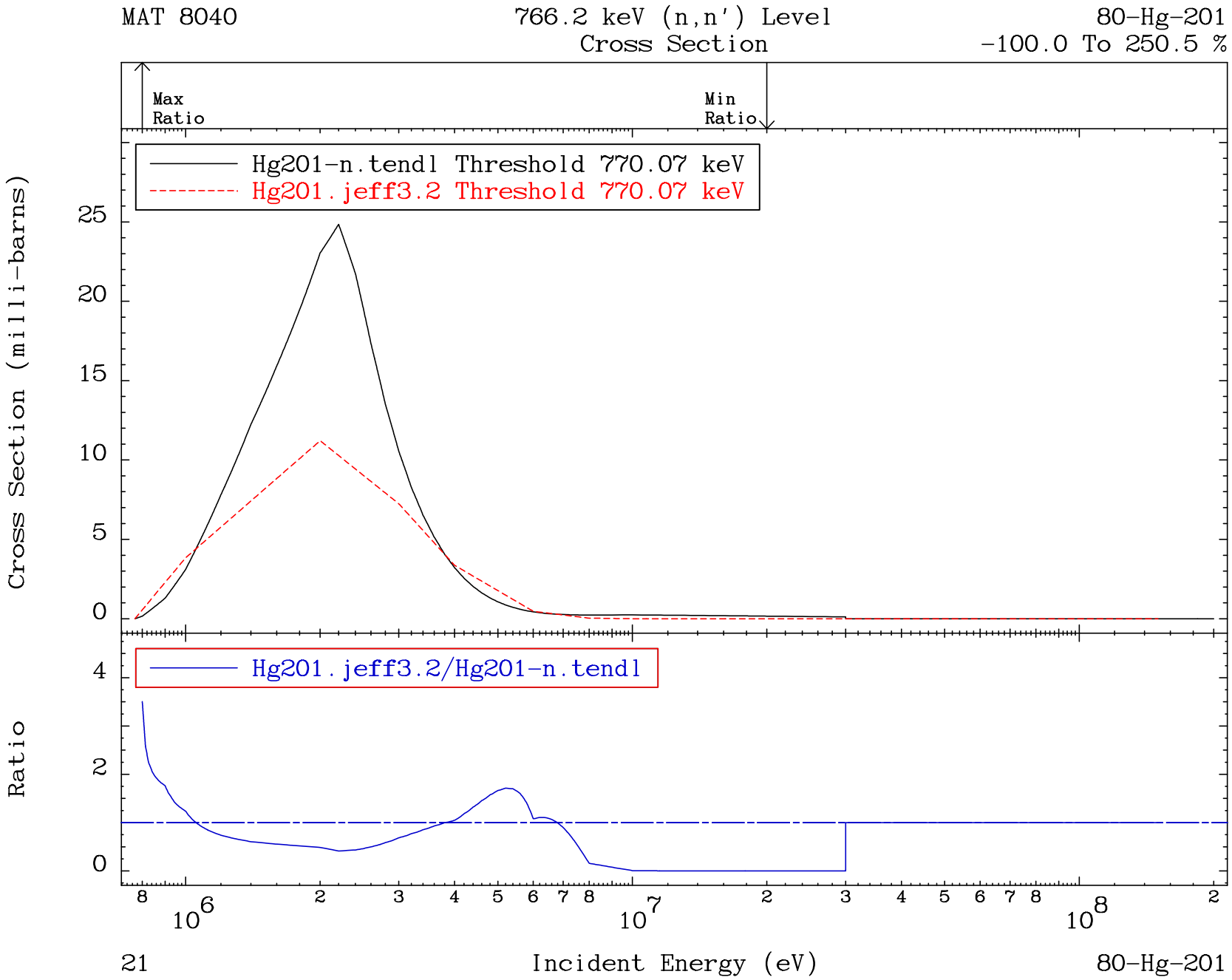

MAT 8040
542.8 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 0.000 %
Min Ratio
Max Ratio
Hg201-n.tendl Threshold 545.53 keV
Hg201.jeff3.2 Threshold 545.73 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
1.2
0.8
0.4
0.0
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
80-Hg-201

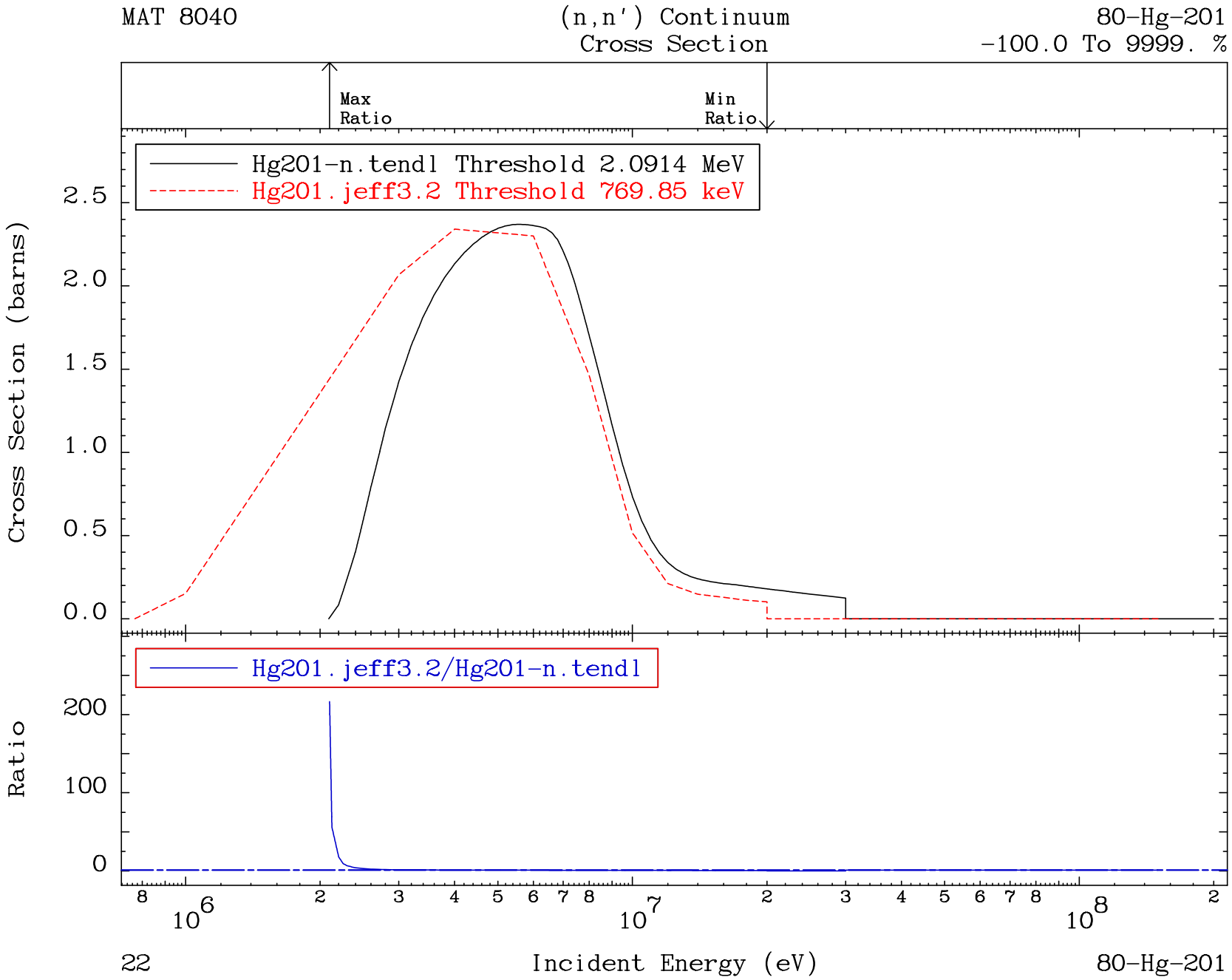

MAT 8040
547.3 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 253.7 %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 550.07 keV
Hg201.jeff3.2 Threshold 550.07 keV
Cross Section (milli-barns)
0
20
40
60
80
Hg201.jeff3.2/Hg201-n.tendl
Ratio
0
2
4
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
80-Hg-201

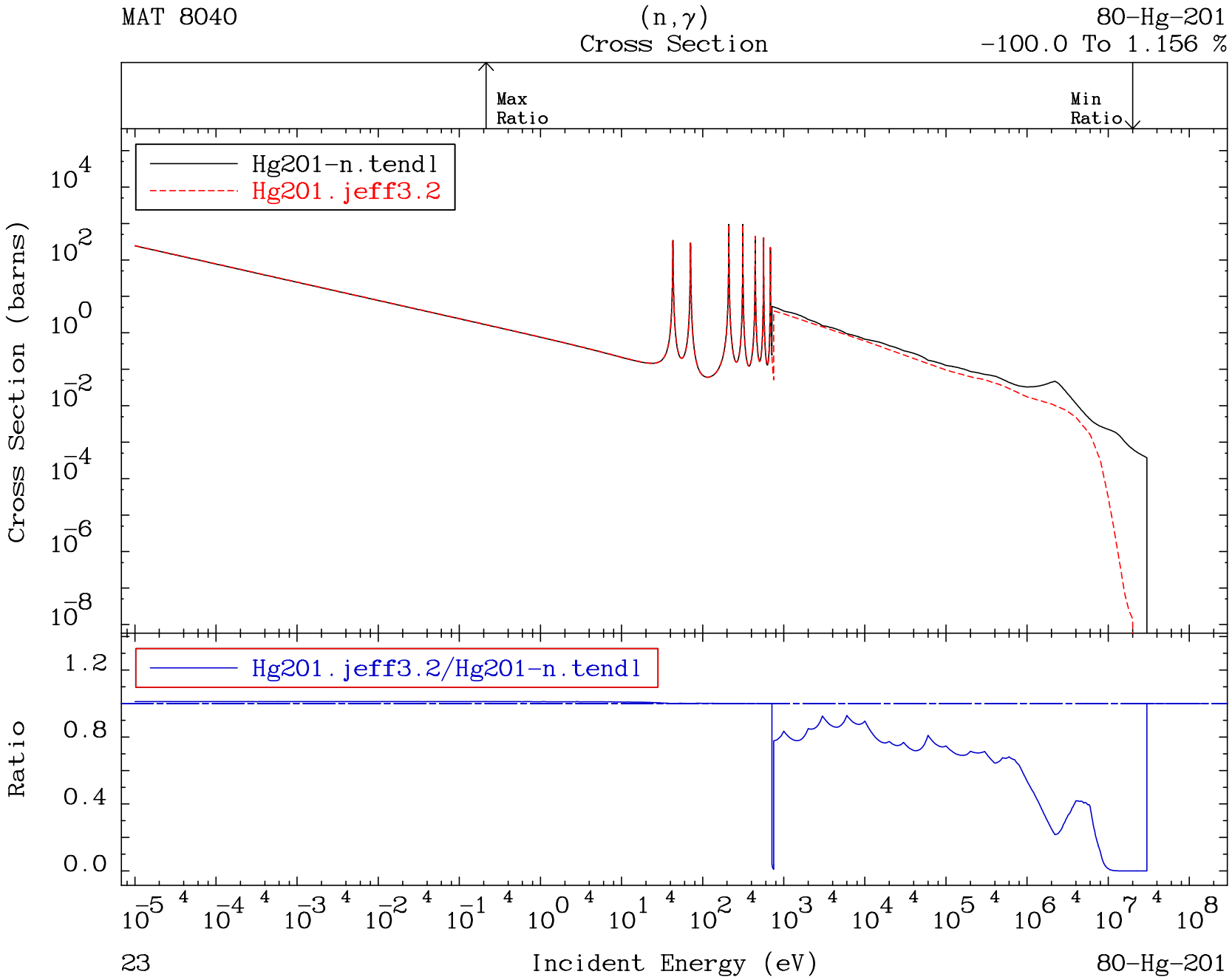

MAT 8040
553.0 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 55.25 %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 555.78 keV
Hg201.jeff3.2 Threshold 555.78 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
2.0
1.5
1.0
0.5
0.0
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
80-Hg-201

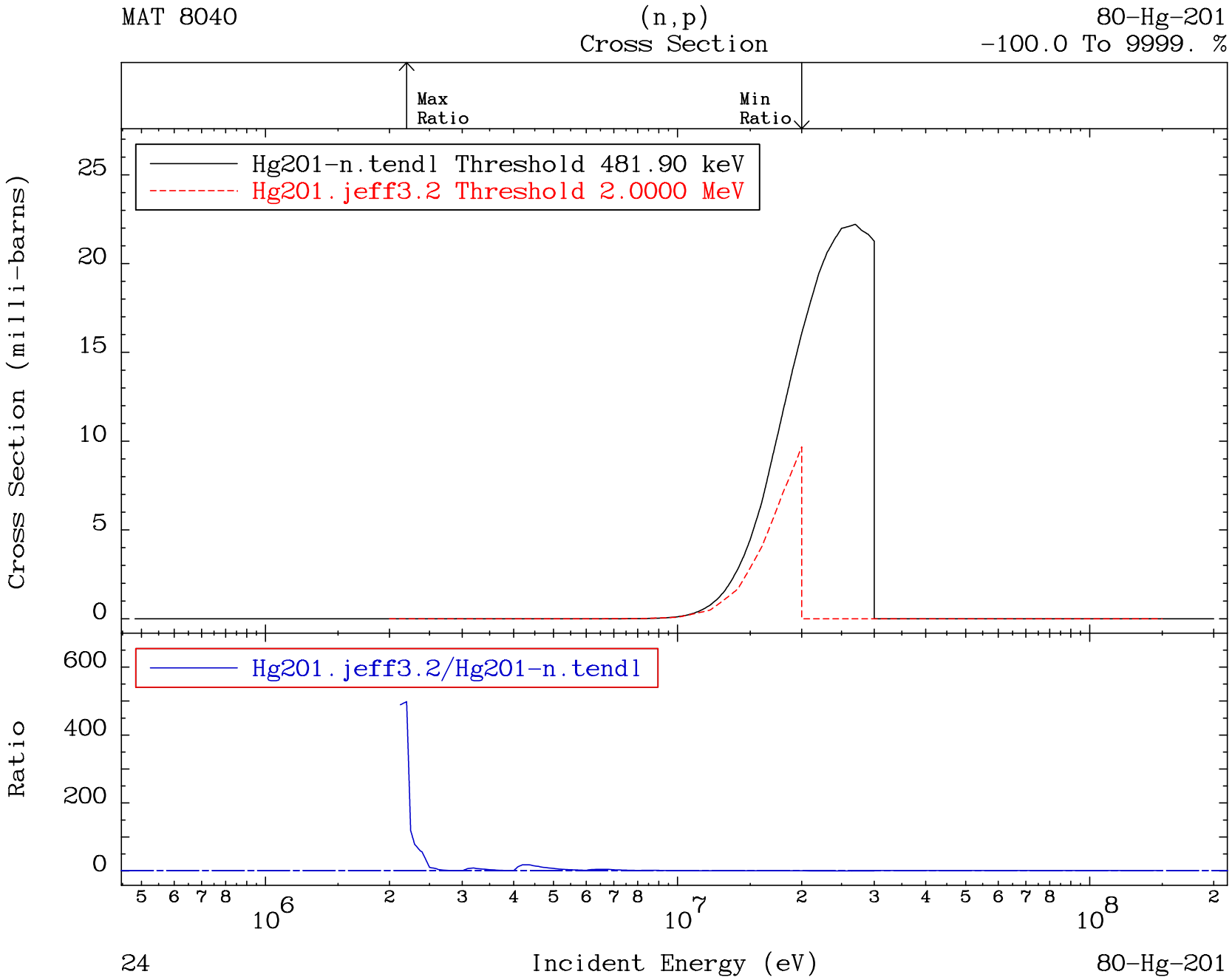

MAT 8040
645.3 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 77.60 %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 648.54 keV
Hg201.jeff3.2 Threshold 648.64 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
2.0
1.0
0.0
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
80-Hg-201

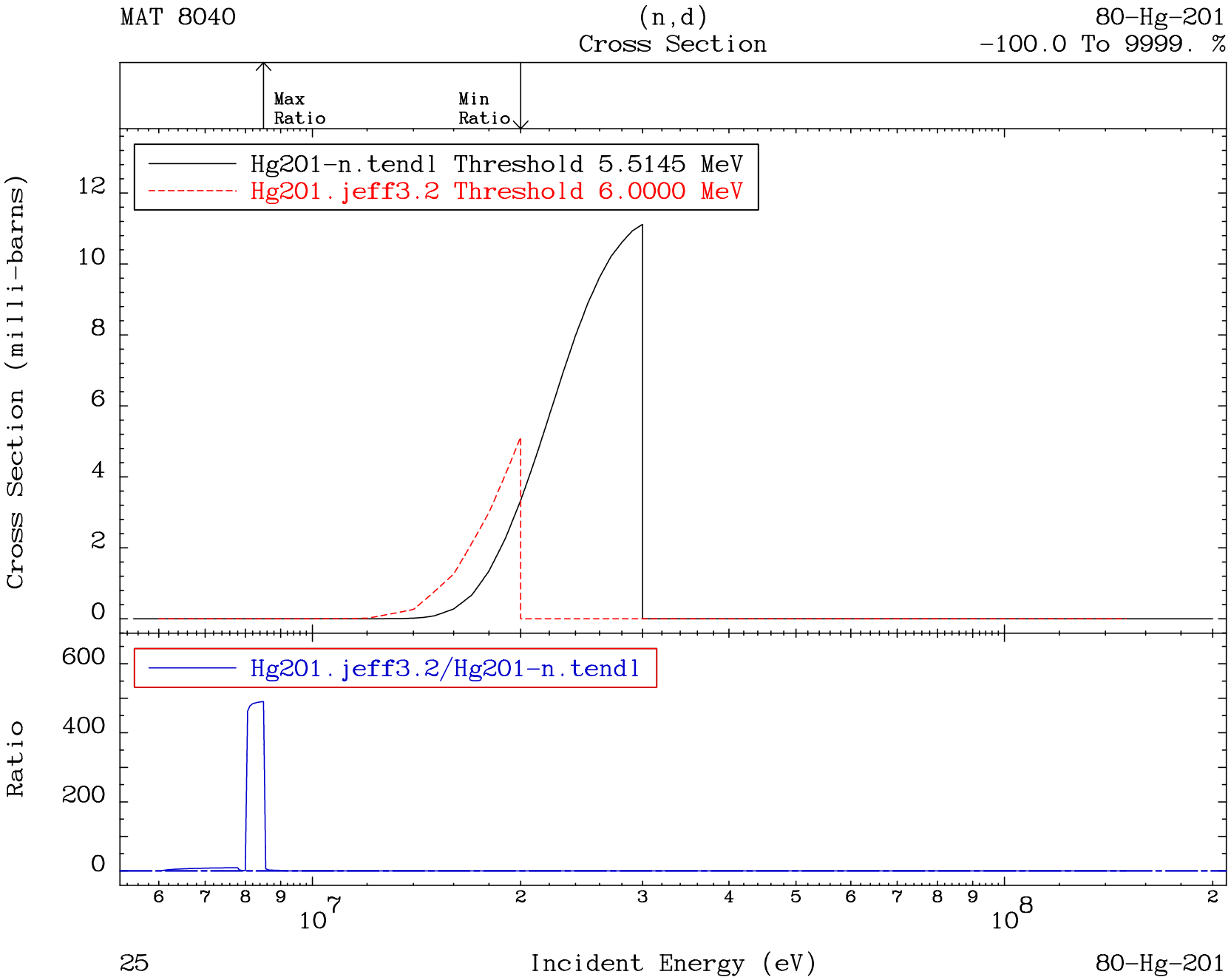

MAT 8040
732.3 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 210.4 %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 735.98 keV
Hg201.jeff3.2 Threshold 736.68 keV
Cross Section (milli-barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
20
80-Hg-201

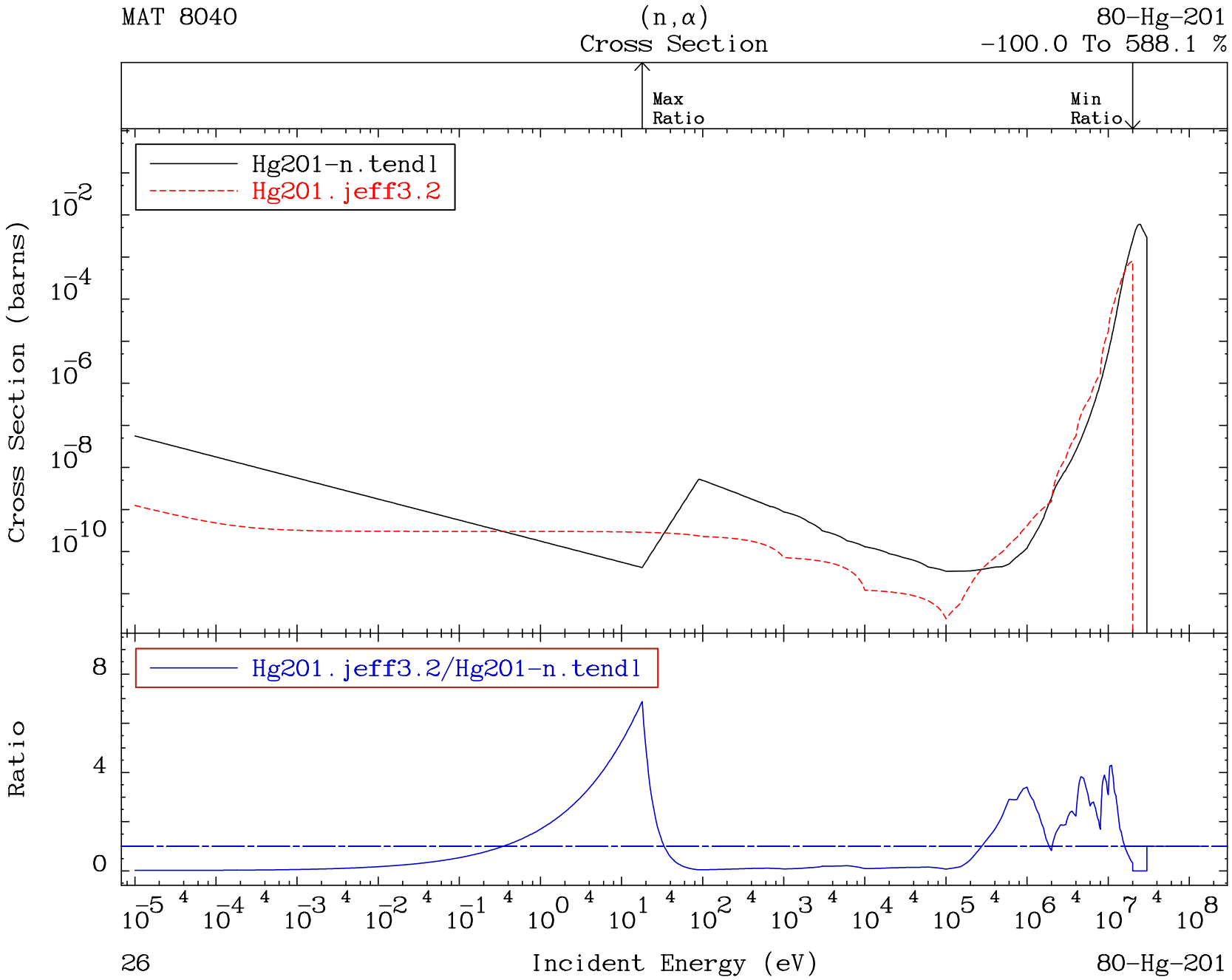

MAT 8040
766.2 keV (n,n') Level
Cross Section
80-Hg-201
-100.0 To 250.5 %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 770.07 keV
Hg201.jeff3.2 Threshold 770.07 keV
Cross Section (milli-barns)
25
20
15
10
5
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
4
2
0
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
80-Hg-201

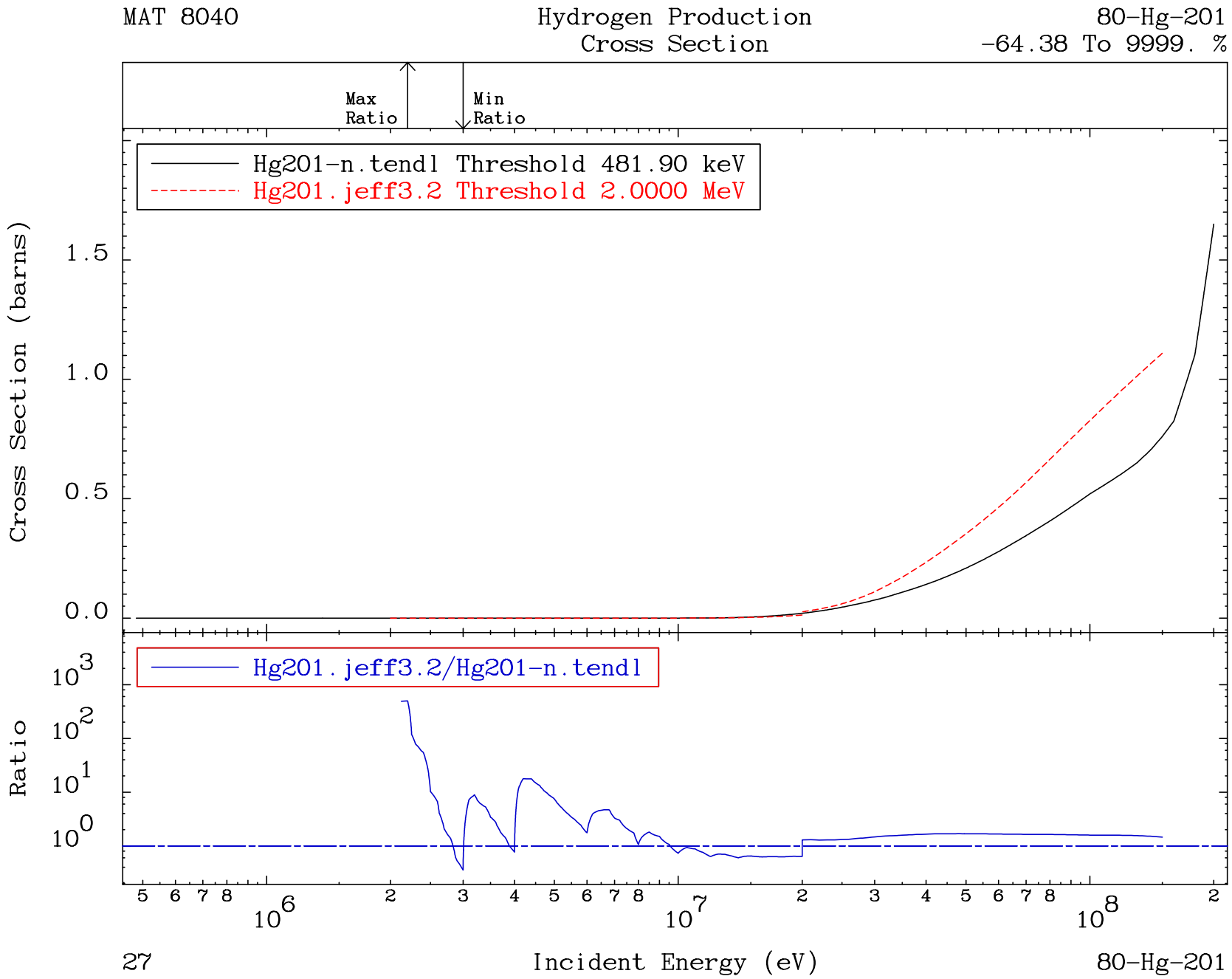

MAT 8040
(n,n') Continuum
Cross Section
80-Hg-201
-100.0 To 9999. %
Max
Ratio
Min
Ratio
Hg201-n.tendl Threshold 2.0914 MeV
Hg201.jeff3.2 Threshold 769.85 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
200
100
0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
80-Hg-201

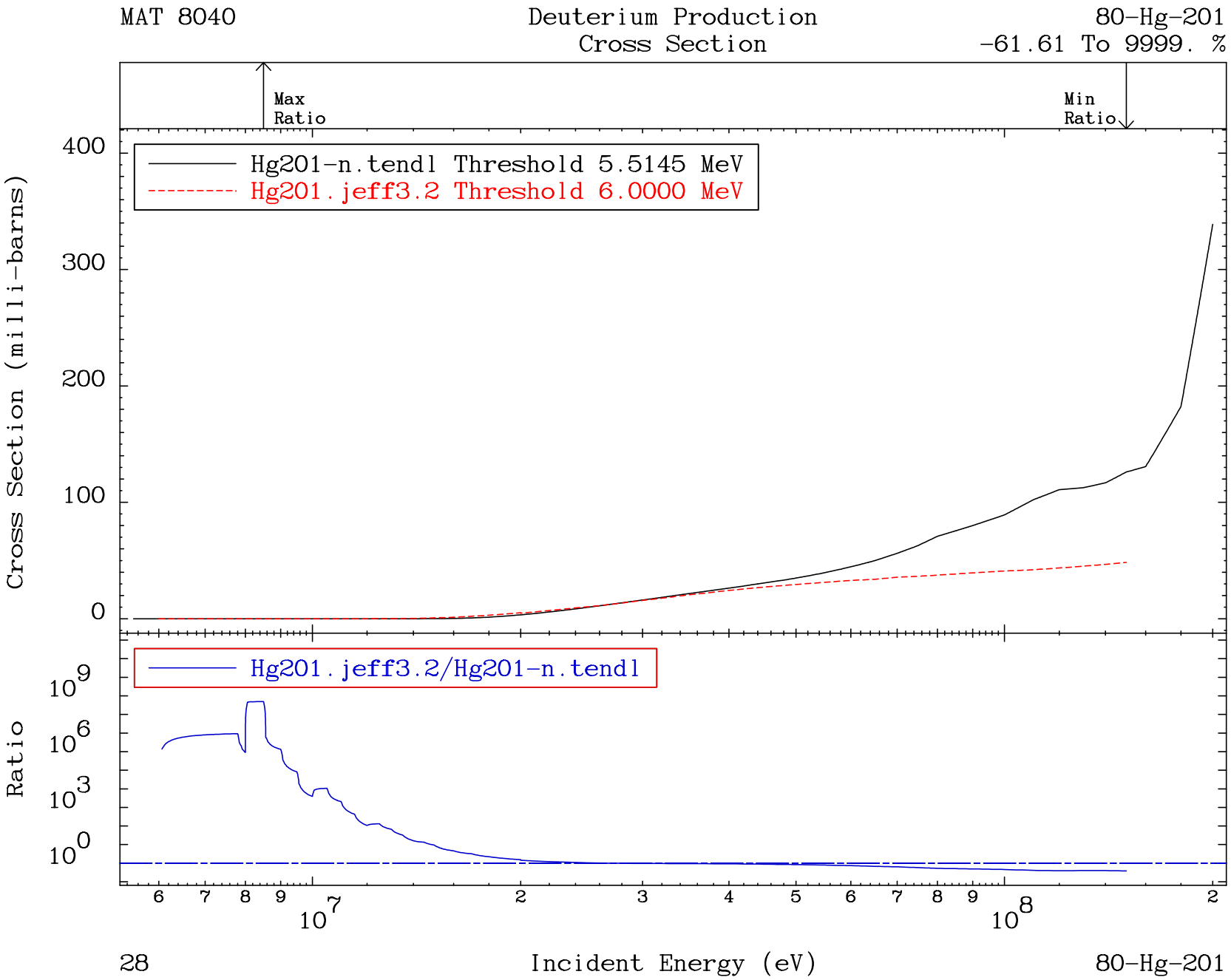

MAT 8040
(n,γ)
Cross Section
80-Hg-201
-100.0 To 1.156 %
Max Ratio
Min Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
23
80-Hg-201

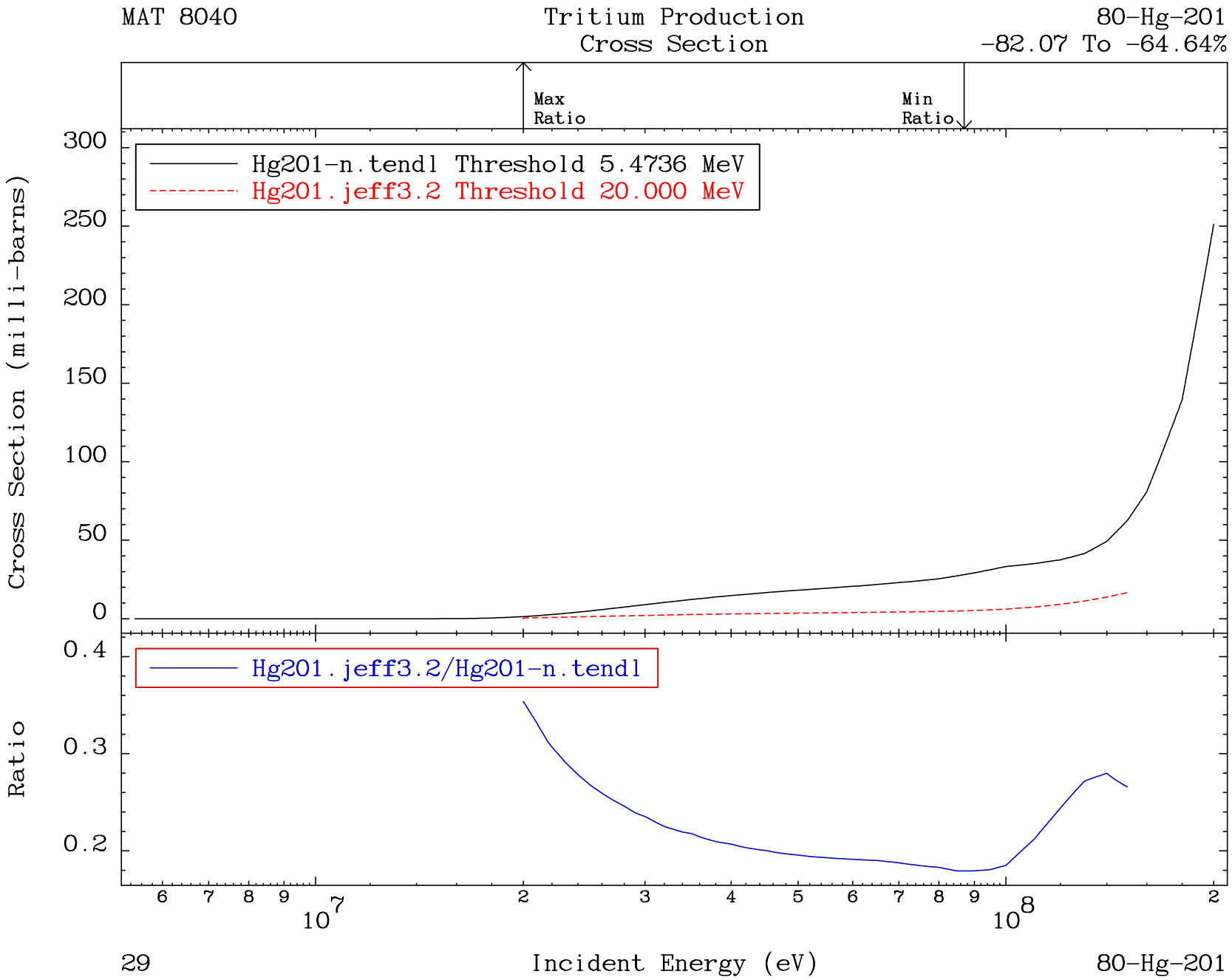

MAT 8040
(n,p)
Cross Section
80-Hg-201
-100.0 To 9999. %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 481.90 keV
Hg201.jeff3.2 Threshold 2.0000 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
600
400
200
0
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
80-Hg-201

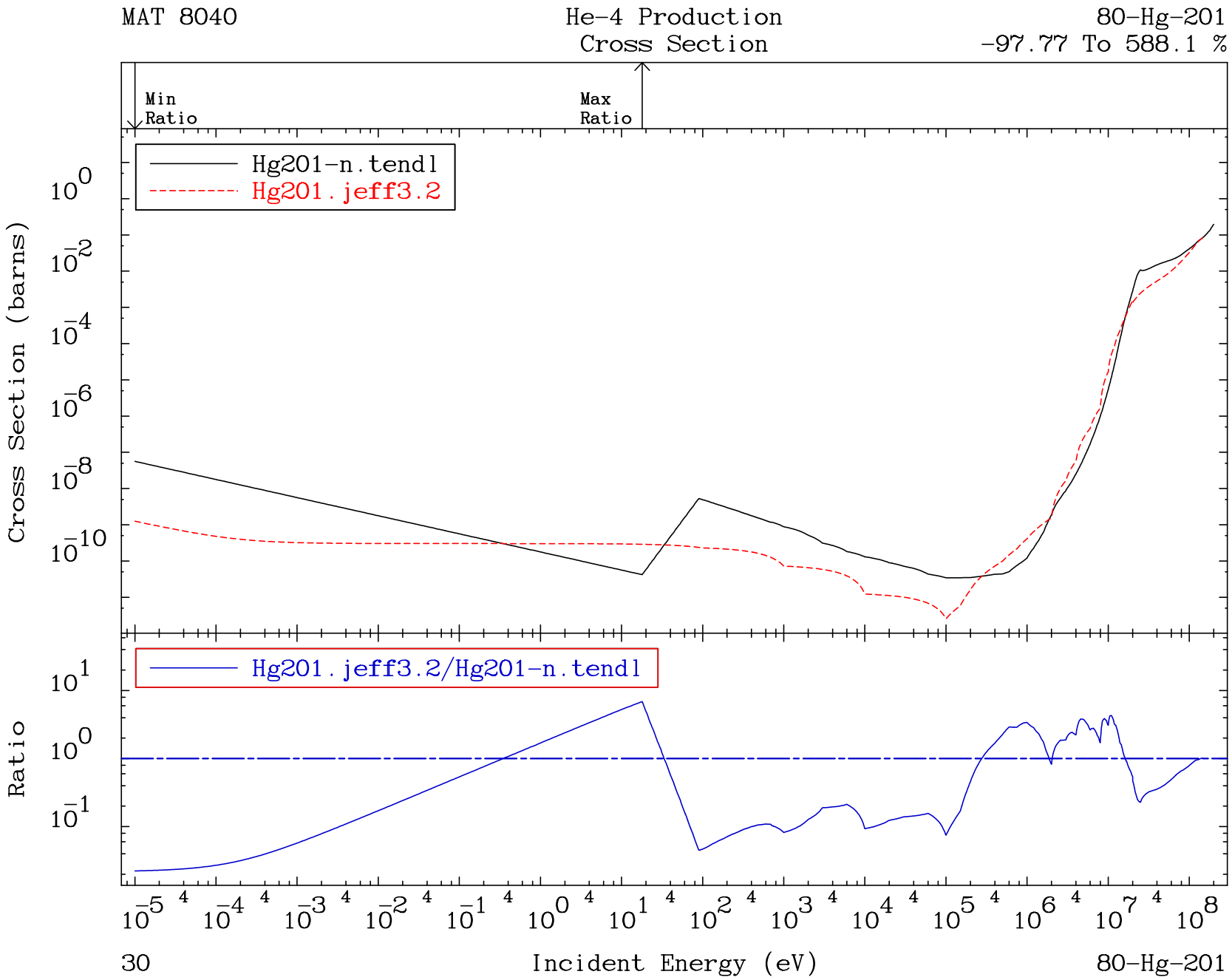

MAT 8040
(n,d)
Cross Section
80-Hg-201
-100.0 To 9999. %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 5.5145 MeV
Hg201.jeff3.2 Threshold 6.0000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
Hg201.jeff3.2/Hg201-n.tendl
Ratio
0
200
400
600
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
80-Hg-201

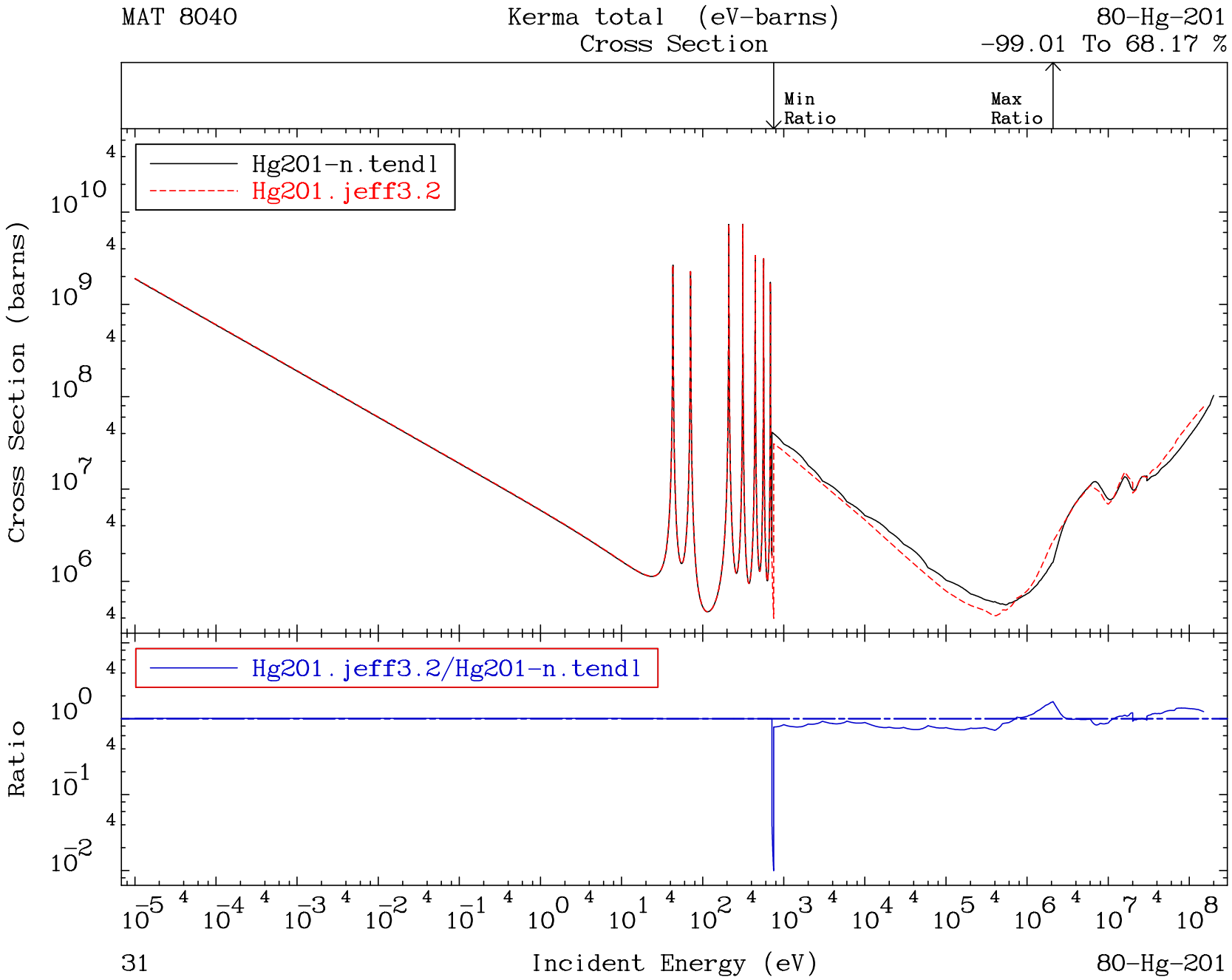

MAT 8040
(n,α)
Cross Section
80-Hg-201
-100.0 To 588.1 %
Max
Ratio
Min
Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
26
80-Hg-201

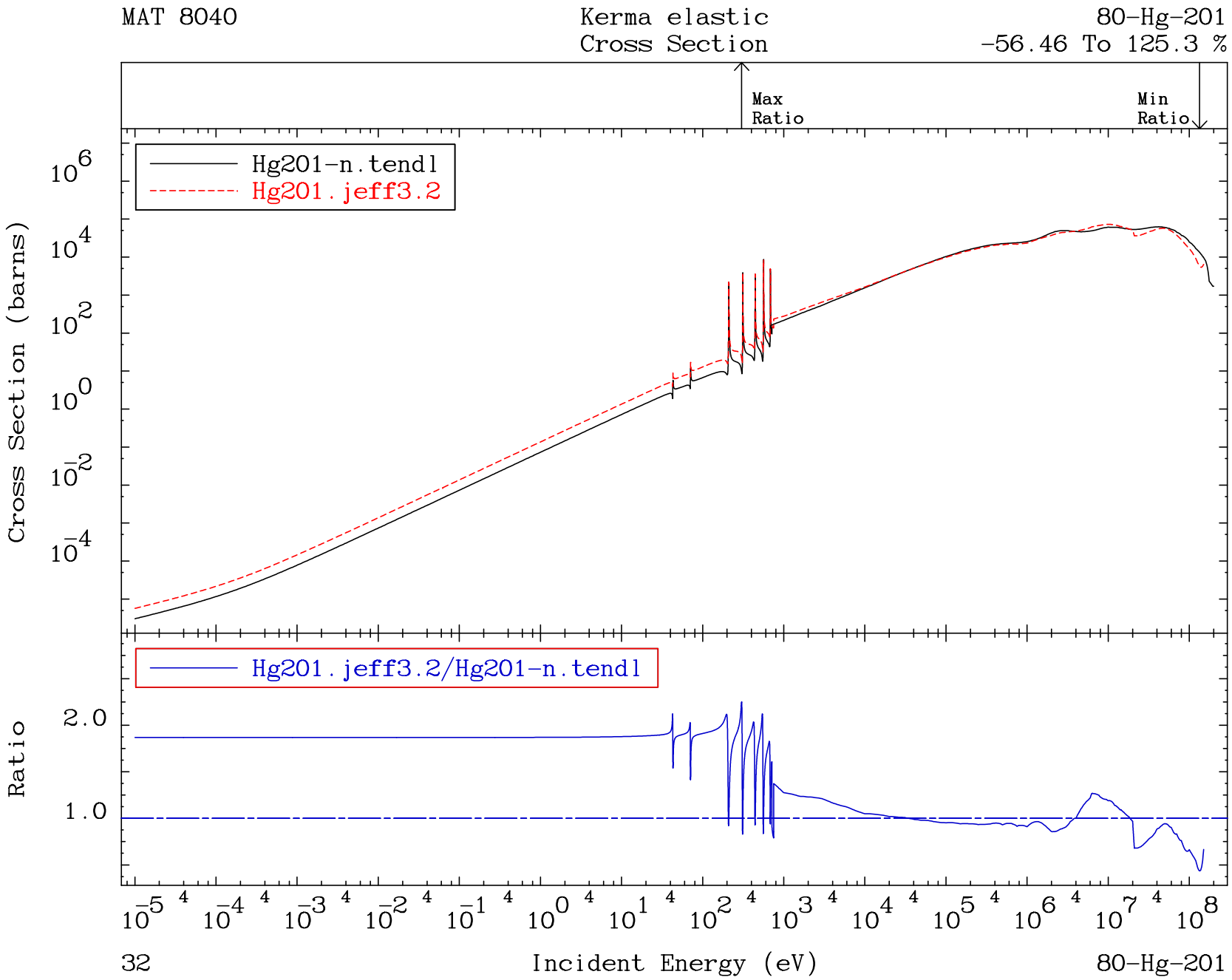

MAT 8040
Hydrogen Production
Cross Section
80-Hg-201
-64.38 To 9999. %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 481.90 keV
Hg201.jeff3.2 Threshold 2.0000 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
10^3
10^2
10^1
10^0
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
80-Hg-201

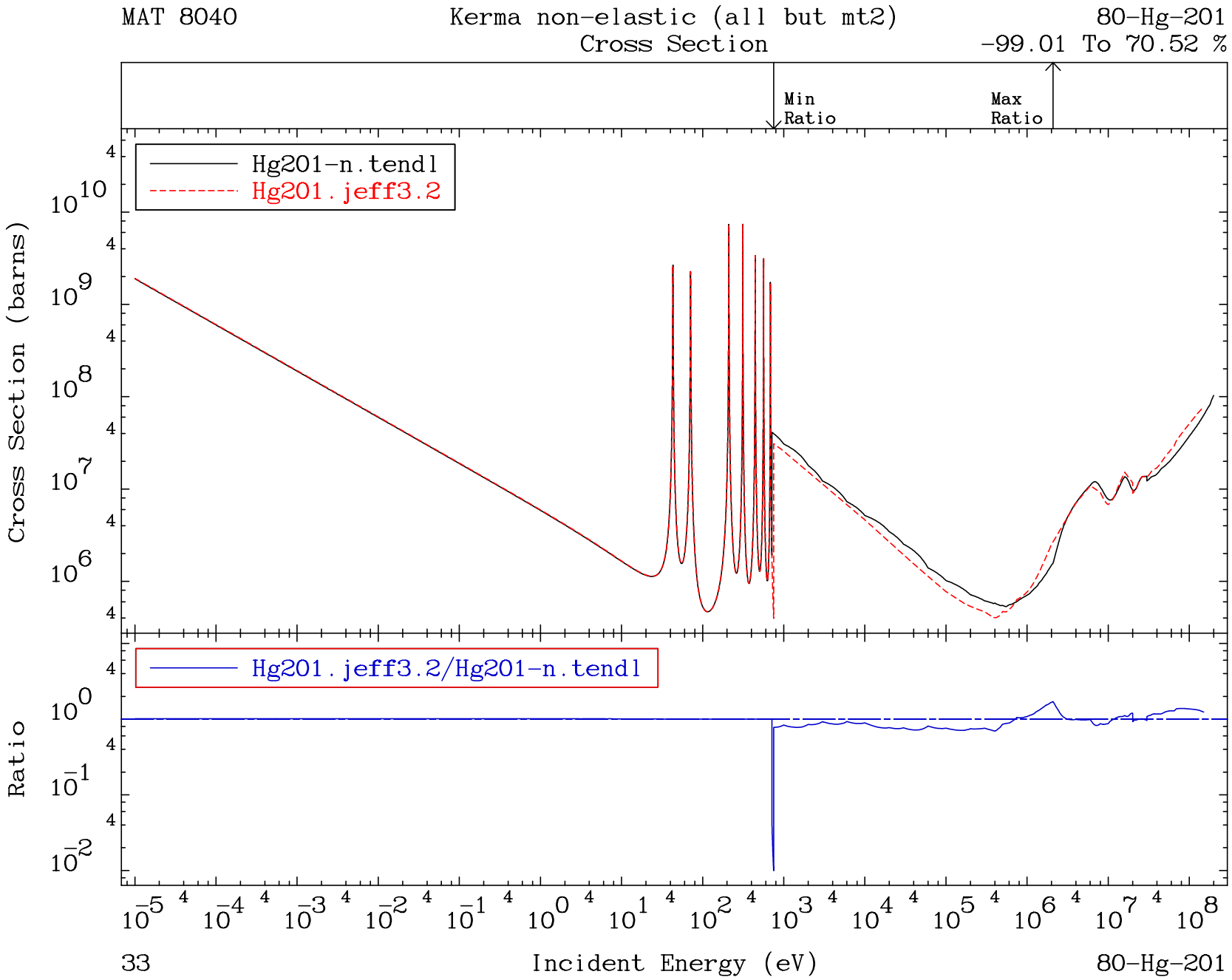

MAT 8040
Deuterium Production
Cross Section
80-Hg-201
-61.61 To 9999. %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 5.5145 MeV
Hg201.jeff3.2 Threshold 6.0000 MeV
Cross Section (milli-barns)
400
300
200
100
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
10^9
10^6
10^3
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
80-Hg-201

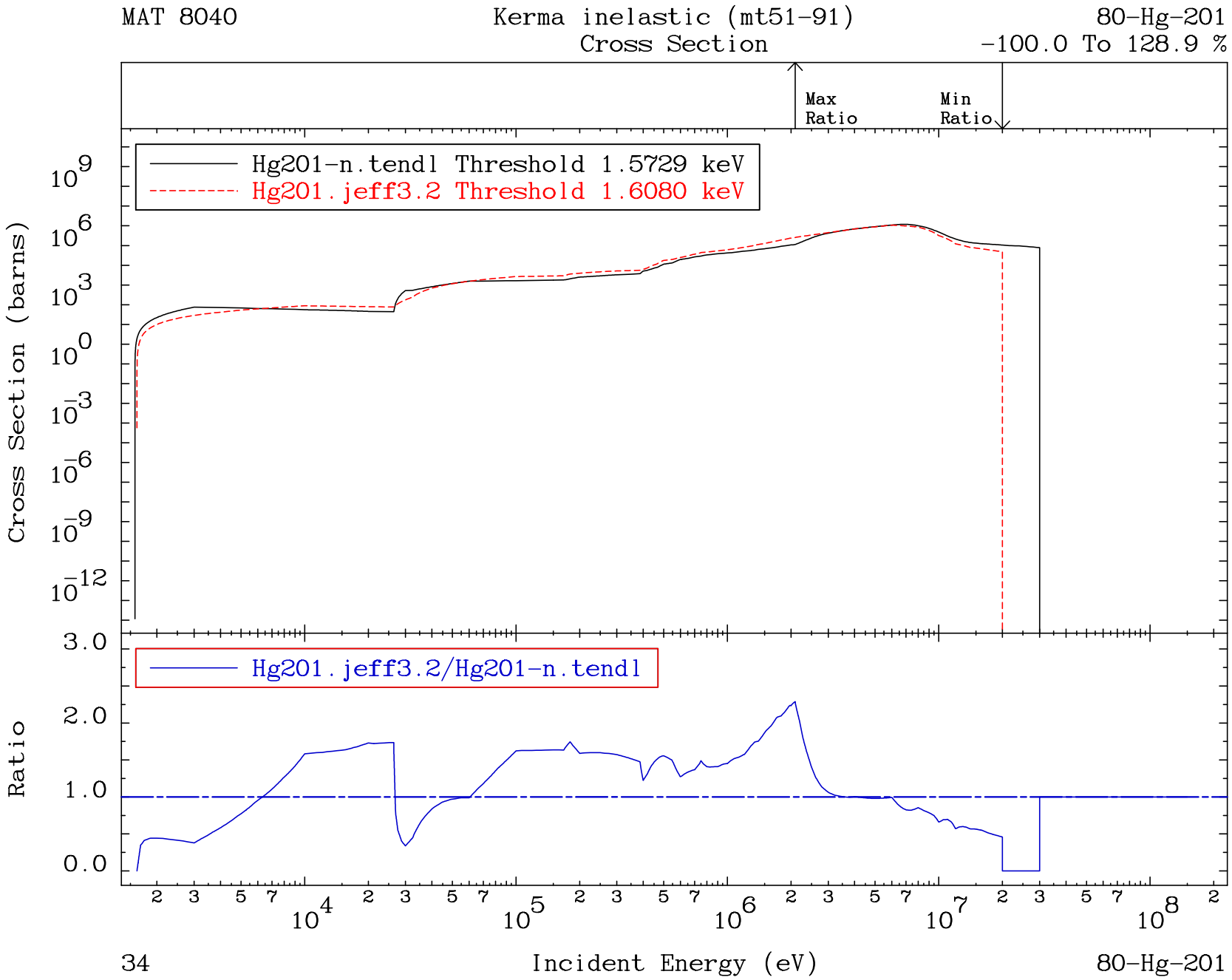

MAT 8040
Tritium Production
Cross Section
80-Hg-201
-82.07 To -64.64%
Max
Ratio
Min
Ratio
Hg201-n.tendl Threshold 5.4736 MeV
Hg201.jeff3.2 Threshold 20.000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
0.4
0.3
0.2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
80-Hg-201

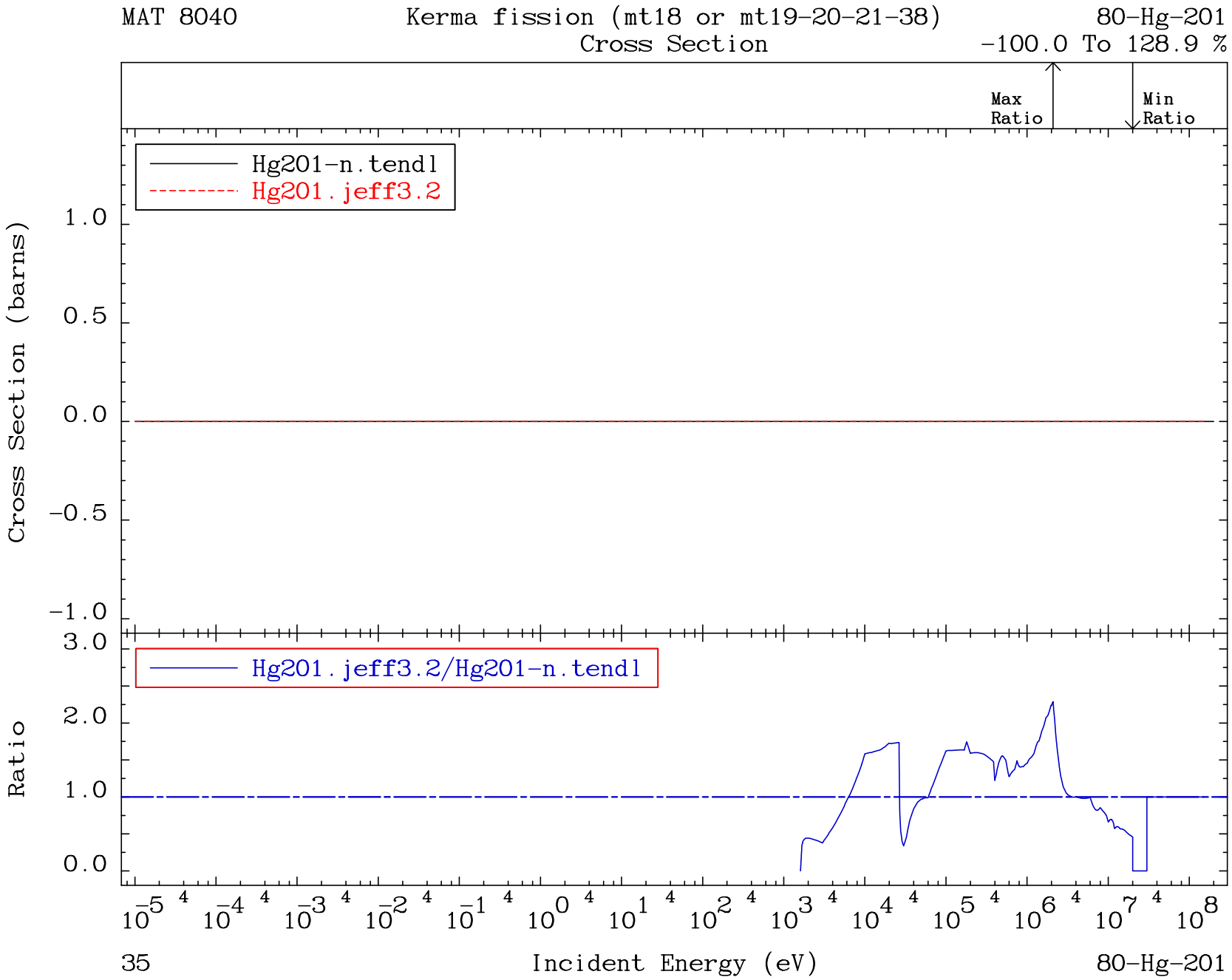

MAT 8040
He-4 Production
Cross Section
80-Hg-201
-97.77 To 588.1 %
Min Ratio
Max Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
30
80-Hg-201

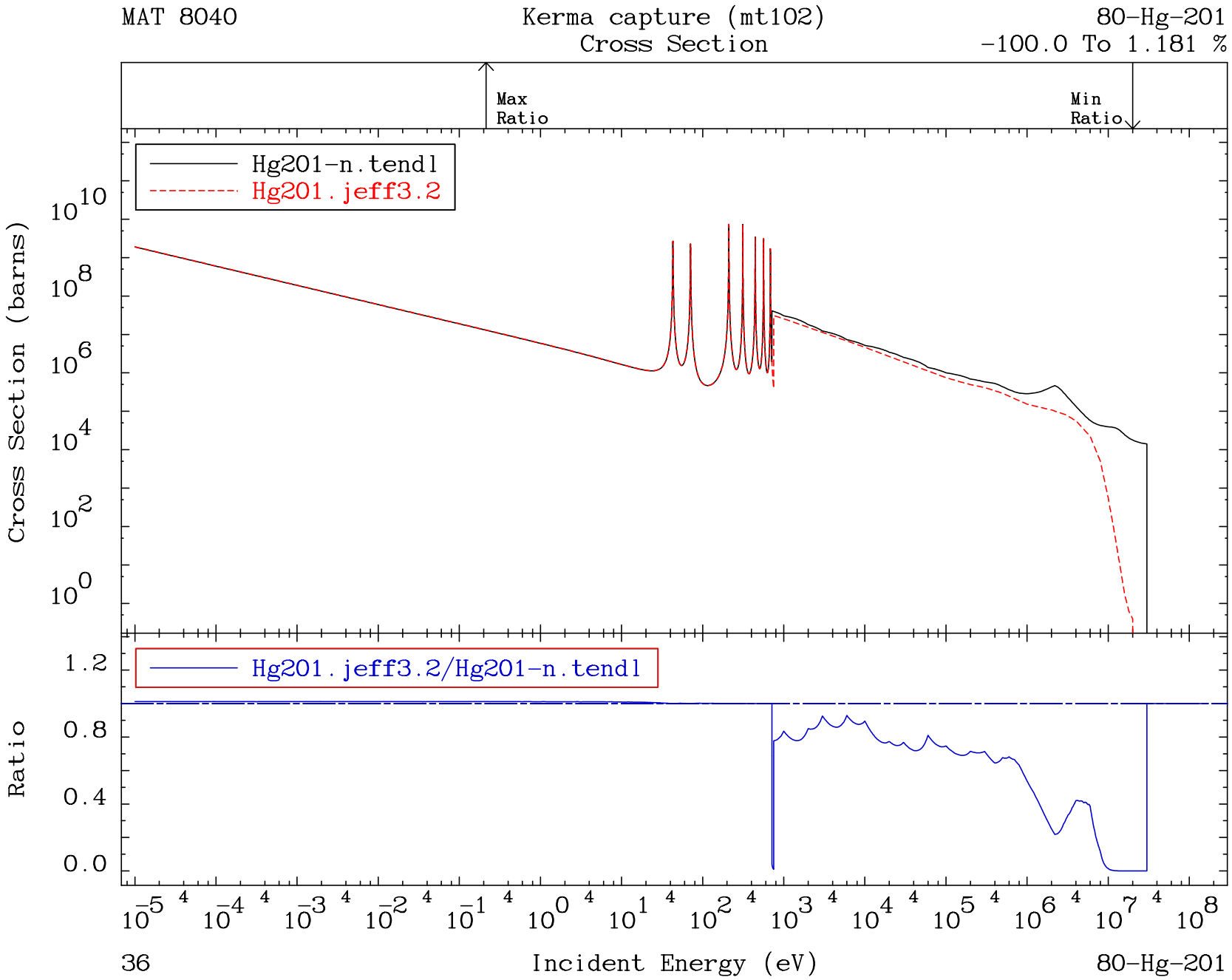

MAT 8040
Kerma total (eV-barns)
Cross Section
80-Hg-201
-99.01 To 68.17 %
Min Ratio
Max Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
31
80-Hg-201

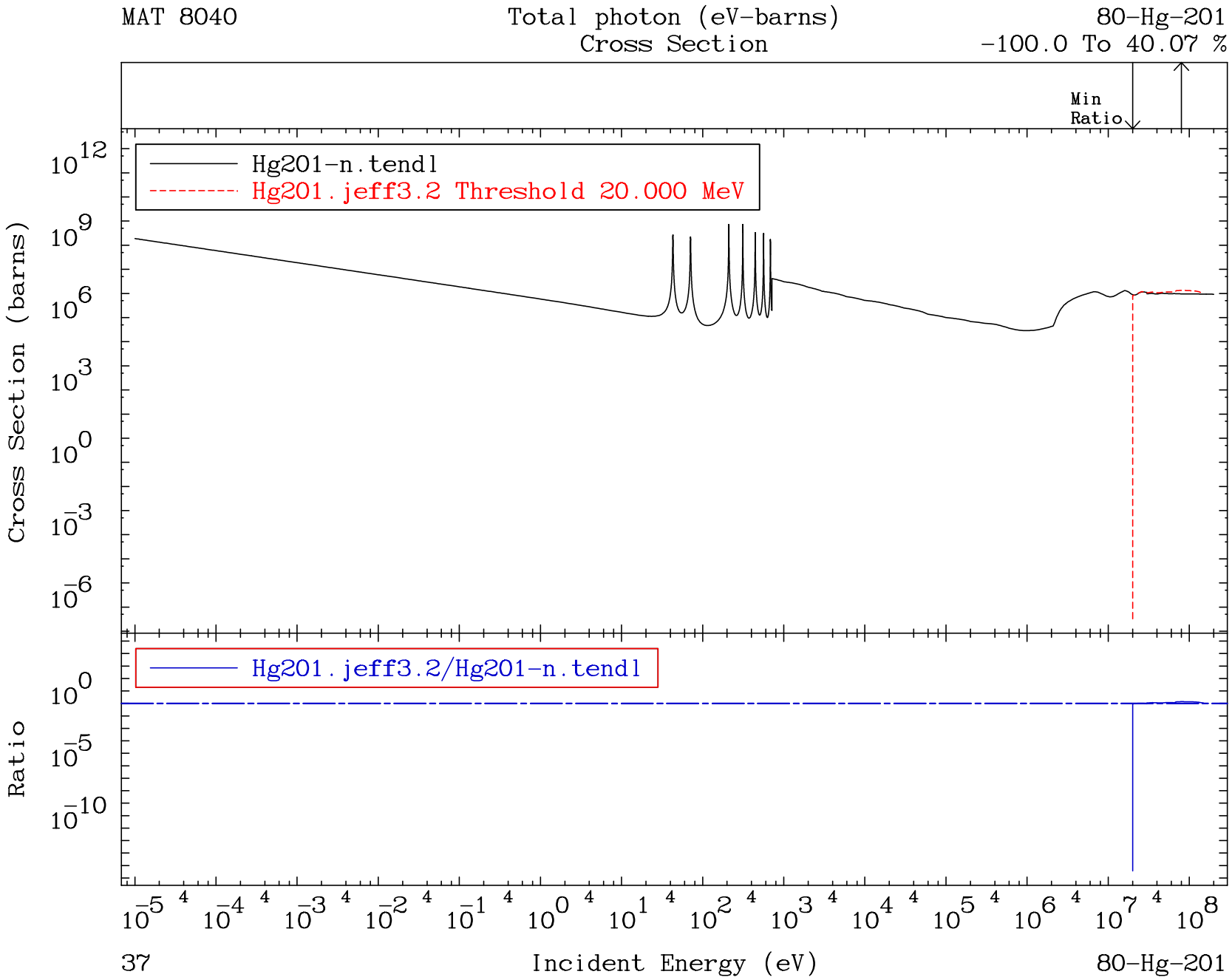

MAT 8040
Kerma elastic
Cross Section
80-Hg-201
-56.46 To 125.3 %
Max
Ratio
Min
Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
32
80-Hg-201

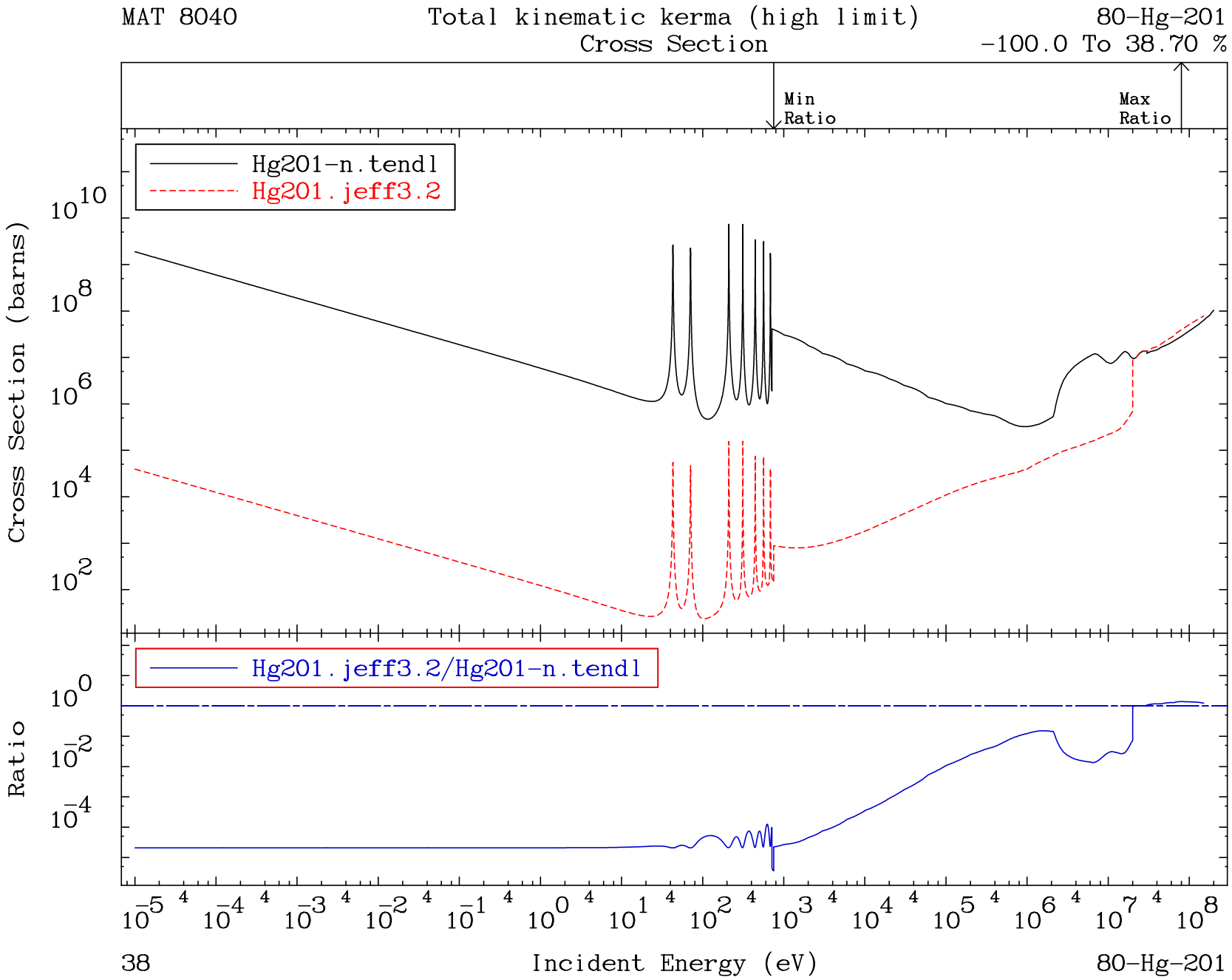

MAT 8040
Kerma non-elastic (all but mt2)
Cross Section
80-Hg-201
-99.01 To 70.52 %
Min Ratio
Max Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
33
80-Hg-201

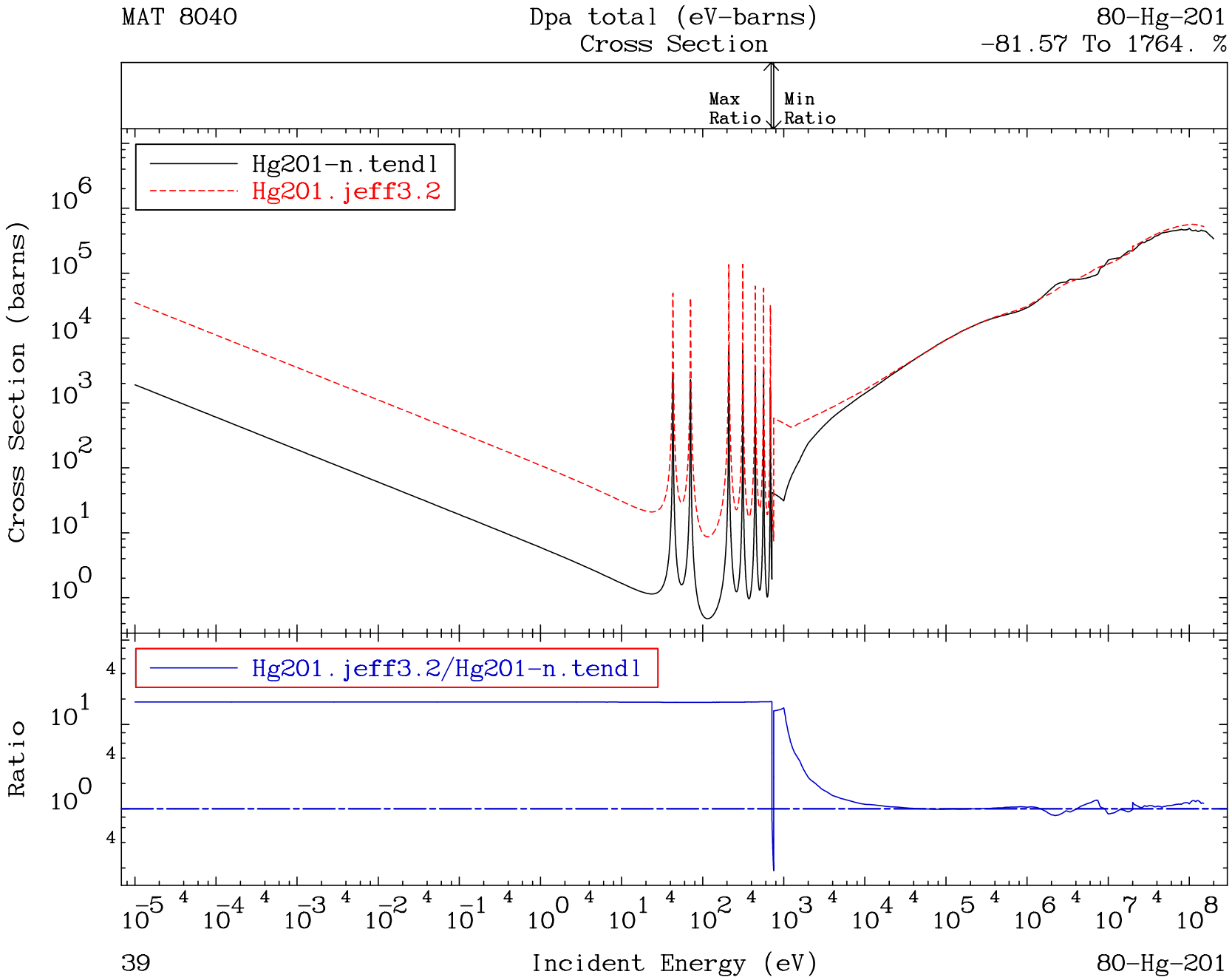

MAT 8040
Kerma inelastic (mt51-91)
Cross Section
80-Hg-201
-100.0 To 128.9 %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 1.5729 keV
Hg201.jeff3.2 Threshold 1.6080 keV
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
34
80-Hg-201

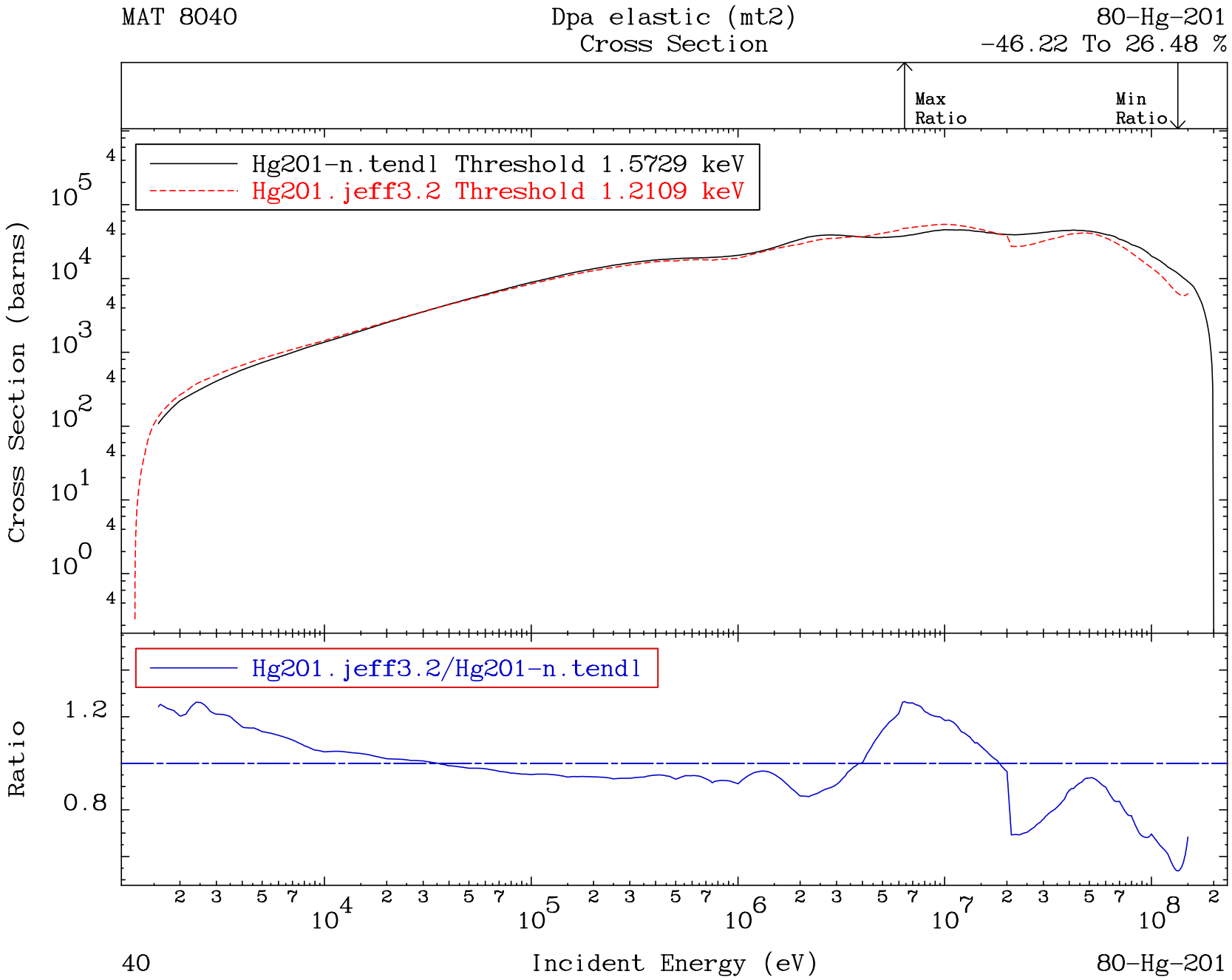

MAT 8040
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
80-Hg-201
-100.0 To 128.9 %
Max Ratio
Min Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Hg201.jeff3.2/Hg201-n.tendl
Ratio
3.0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
35
Incident Energy (eV)
80-Hg-201

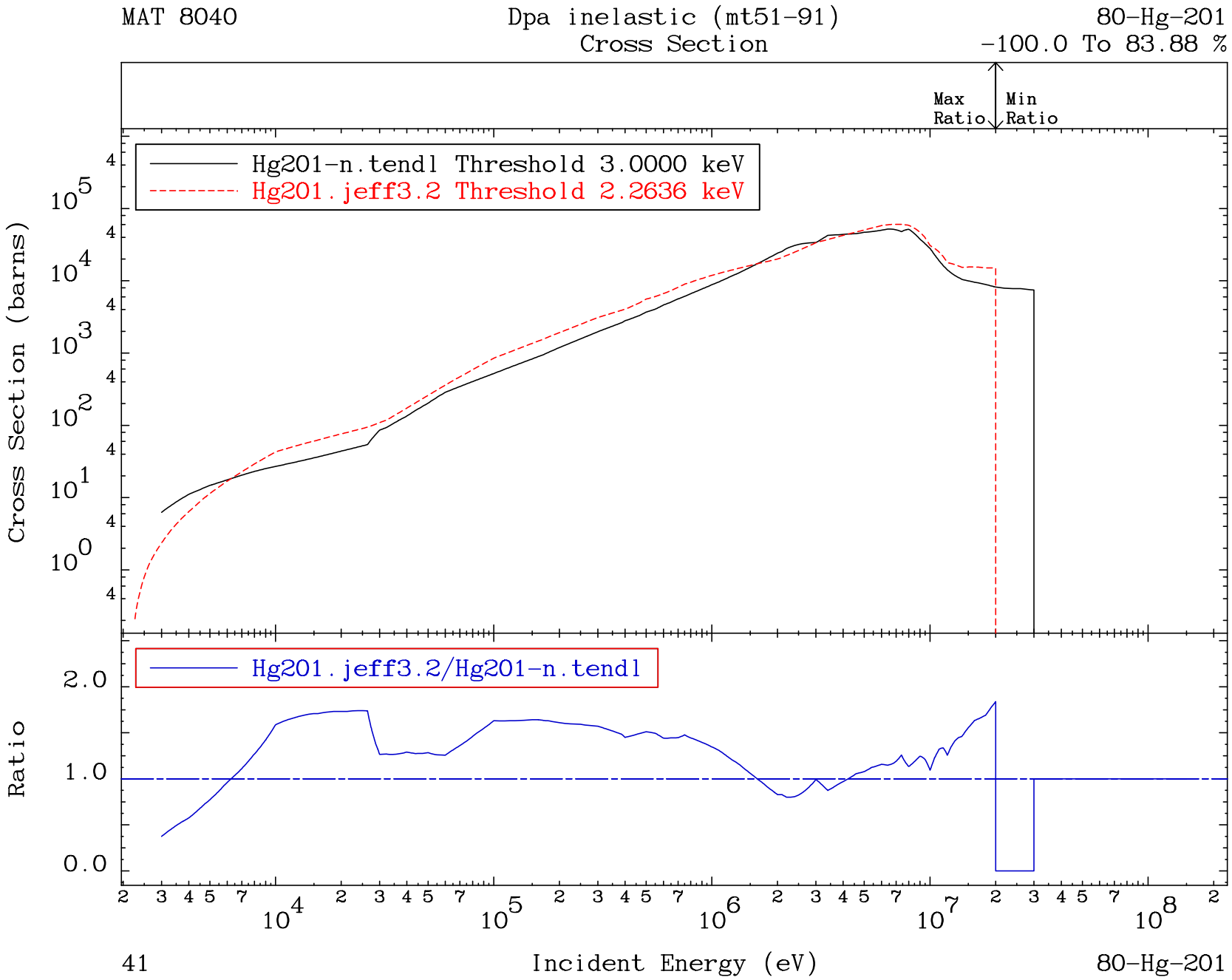

MAT 8040
Kerma capture (mt102)
Cross Section
80-Hg-201
-100.0 To 1.181 %
Max Ratio
Min Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
36
80-Hg-201

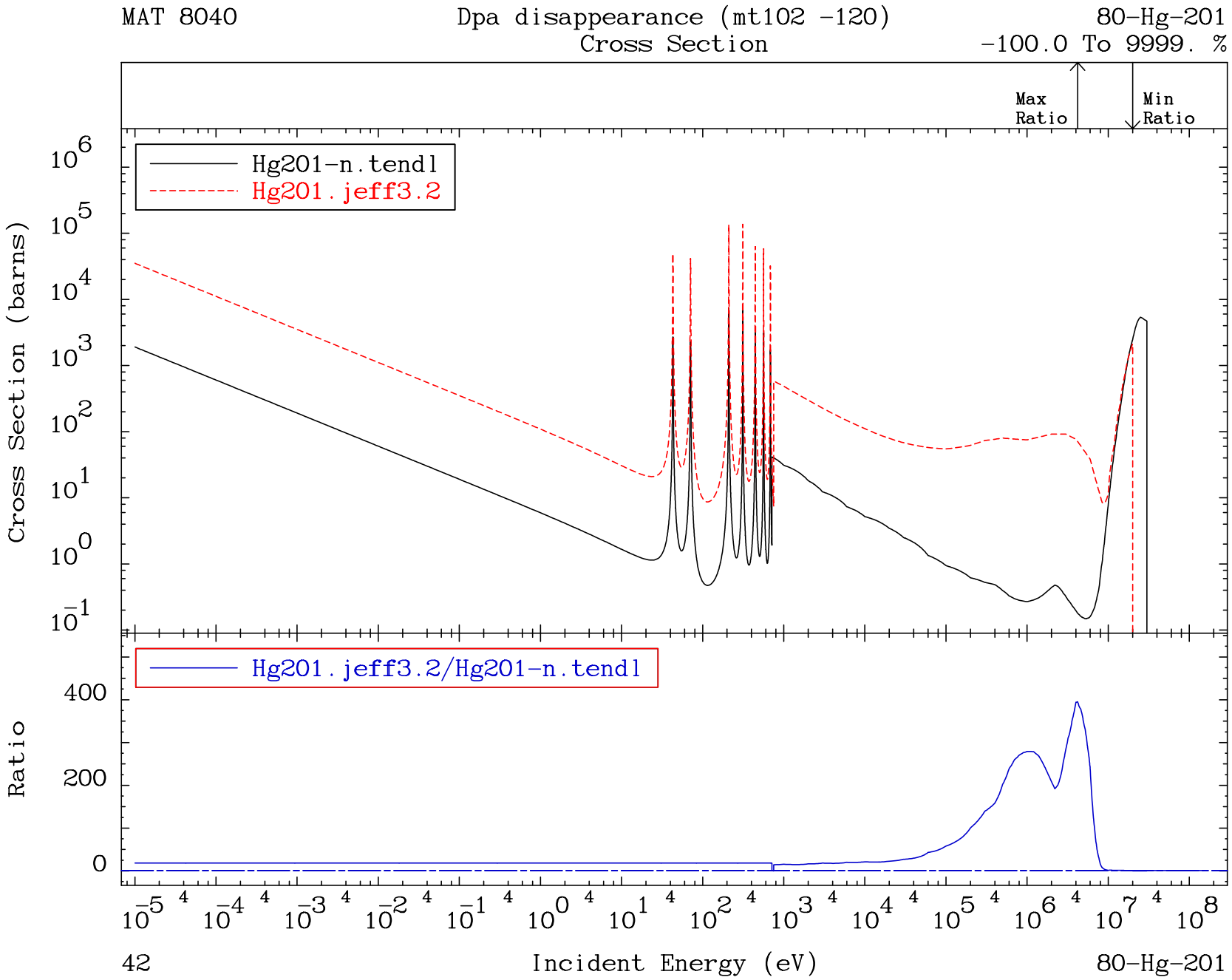

MAT 8040
Total photon (eV-barns)
Cross Section
80-Hg-201
-100.0 To 40.07 %
Min
Ratio
Hg201-n.tendl
Hg201.jeff3.2 Threshold 20.000 MeV
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
37
80-Hg-201


MAT 8040
Total kinematic kerma (high limit)
Cross Section
80-Hg-201
-100.0 To 38.70 %
Min Ratio
Max Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
38
80-Hg-201


MAT 8040
Dpa total (eV-barns)
Cross Section
80-Hg-201
-81.57 To 1764. %
Max Ratio
Min Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
39
80-Hg-201


MAT 8040
Dpa elastic (mt2)
Cross Section
80-Hg-201
-46.22 To 26.48 %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 1.5729 keV
Hg201.jeff3.2 Threshold 1.2109 keV
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
40
80-Hg-201


MAT 8040
Dpa inelastic (mt51-91)
Cross Section
80-Hg-201
-100.0 To 83.88 %
Max Ratio
Min Ratio
Hg201-n.tendl Threshold 3.0000 keV
Hg201.jeff3.2 Threshold 2.2636 keV
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
41
80-Hg-201


MAT 8040
Dpa disappearance (mt102 -120)
Cross Section
80-Hg-201
-100.0 To 9999. %
Max Ratio
Min Ratio
Hg201-n.tendl
Hg201.jeff3.2
Cross Section (barns)
Hg201.jeff3.2/Hg201-n.tendl
Ratio
Incident Energy (eV)
42
80-Hg-201