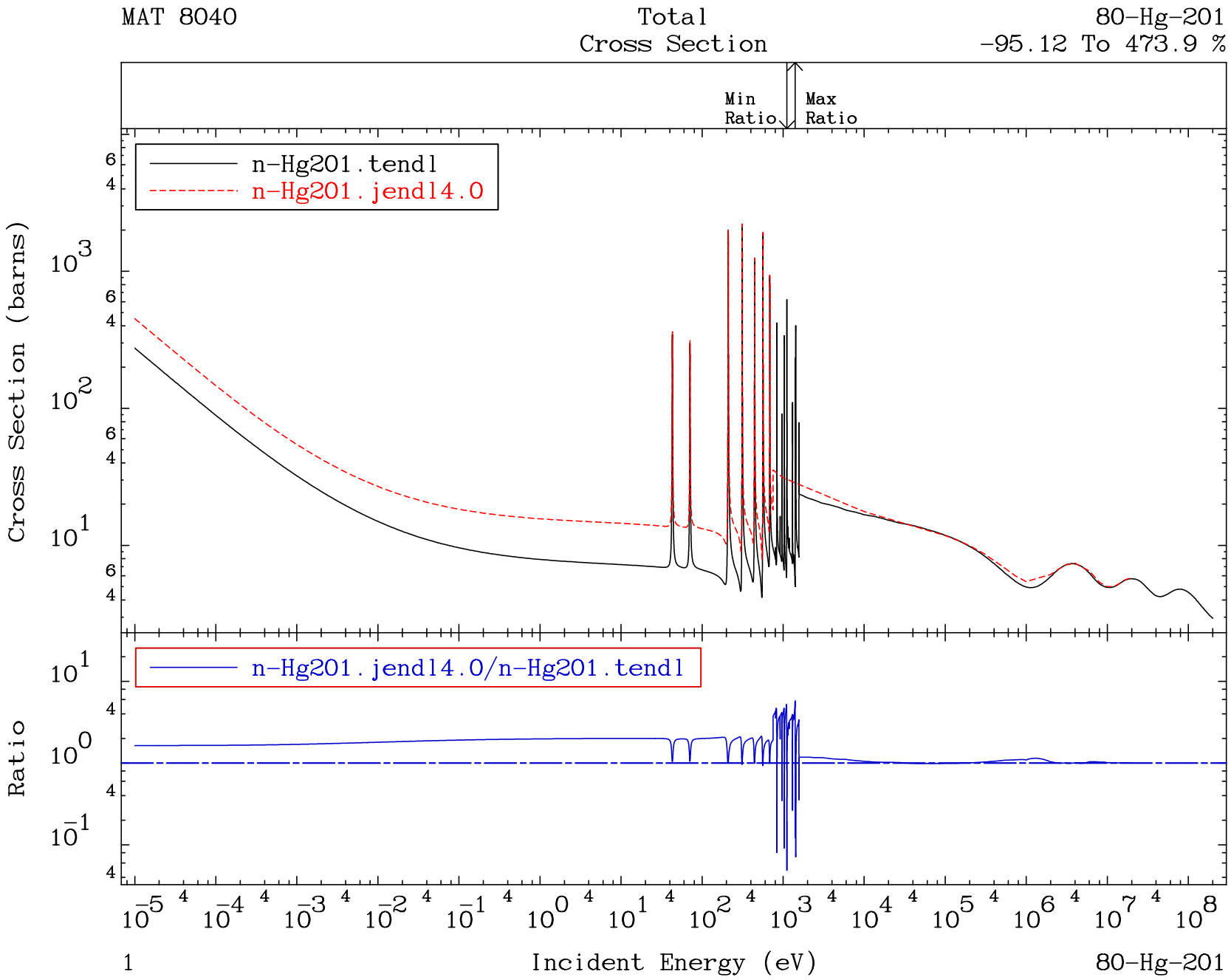
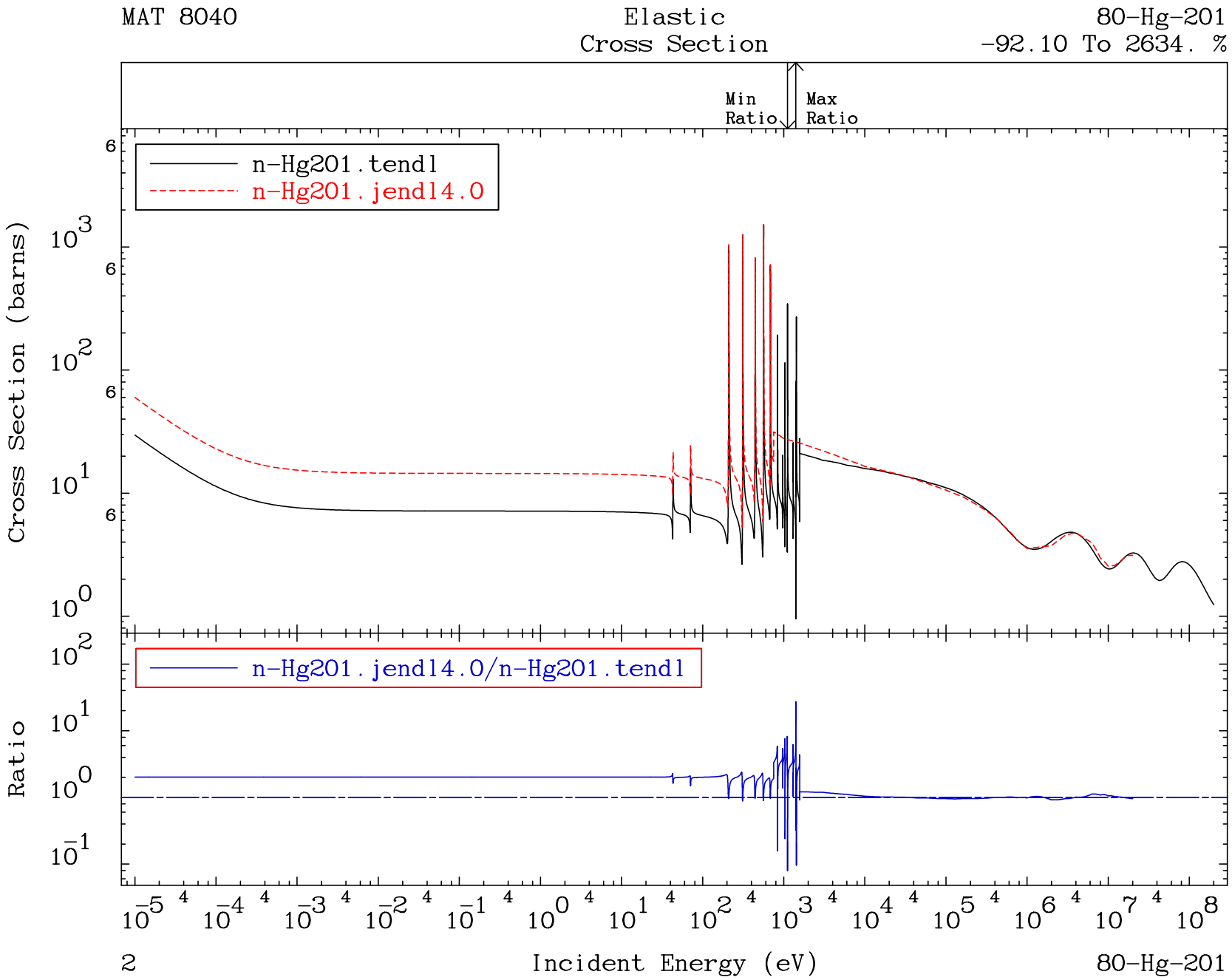
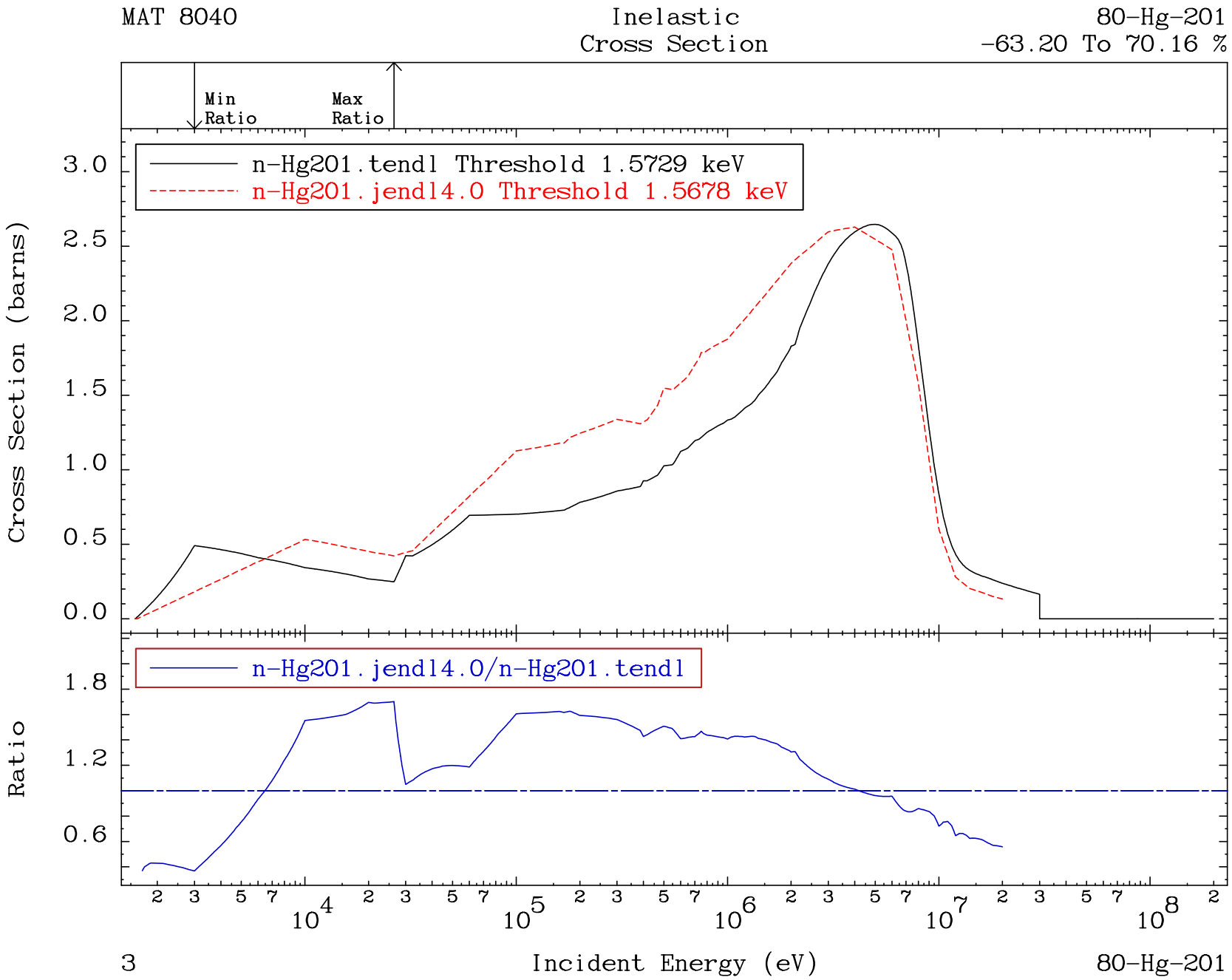
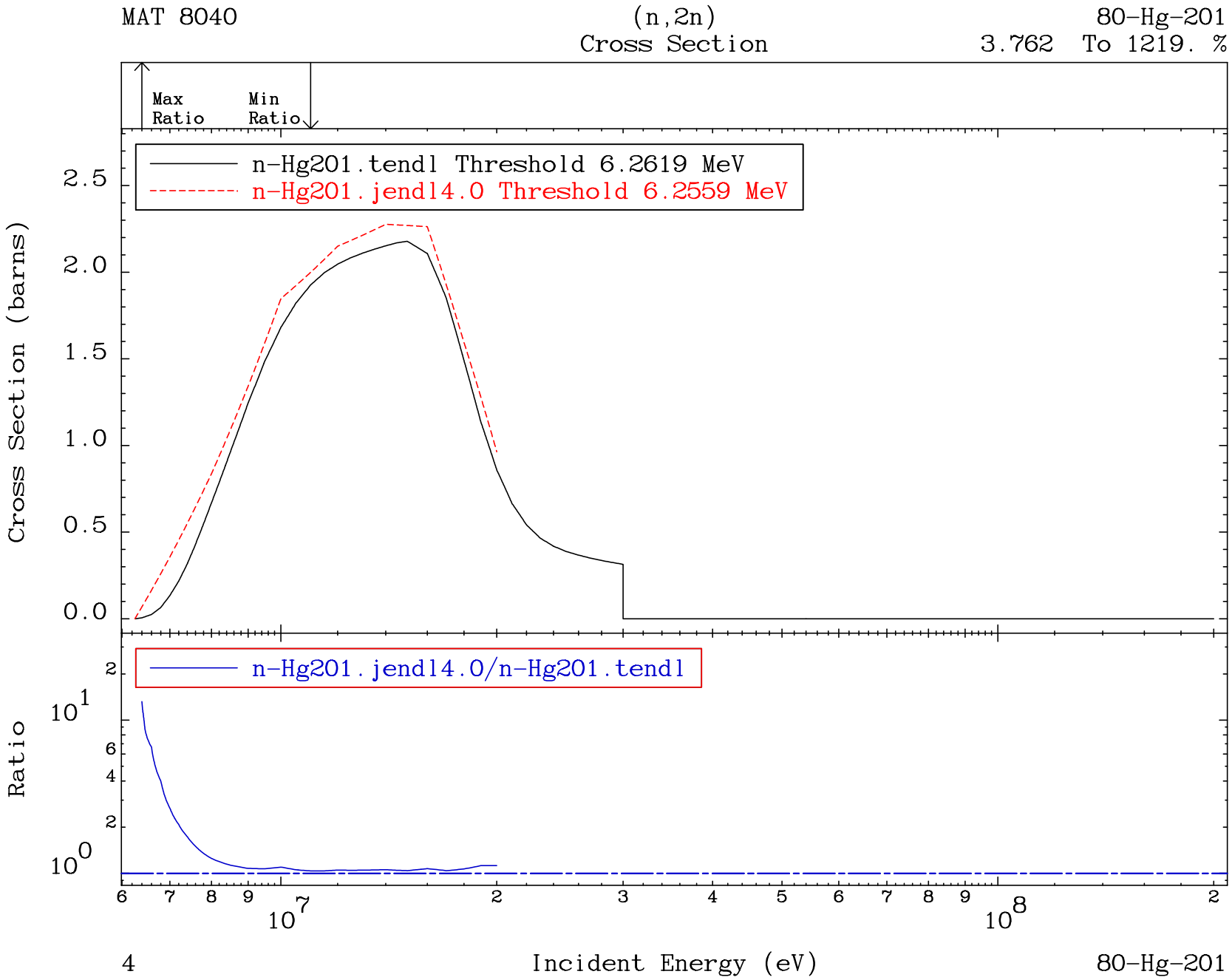
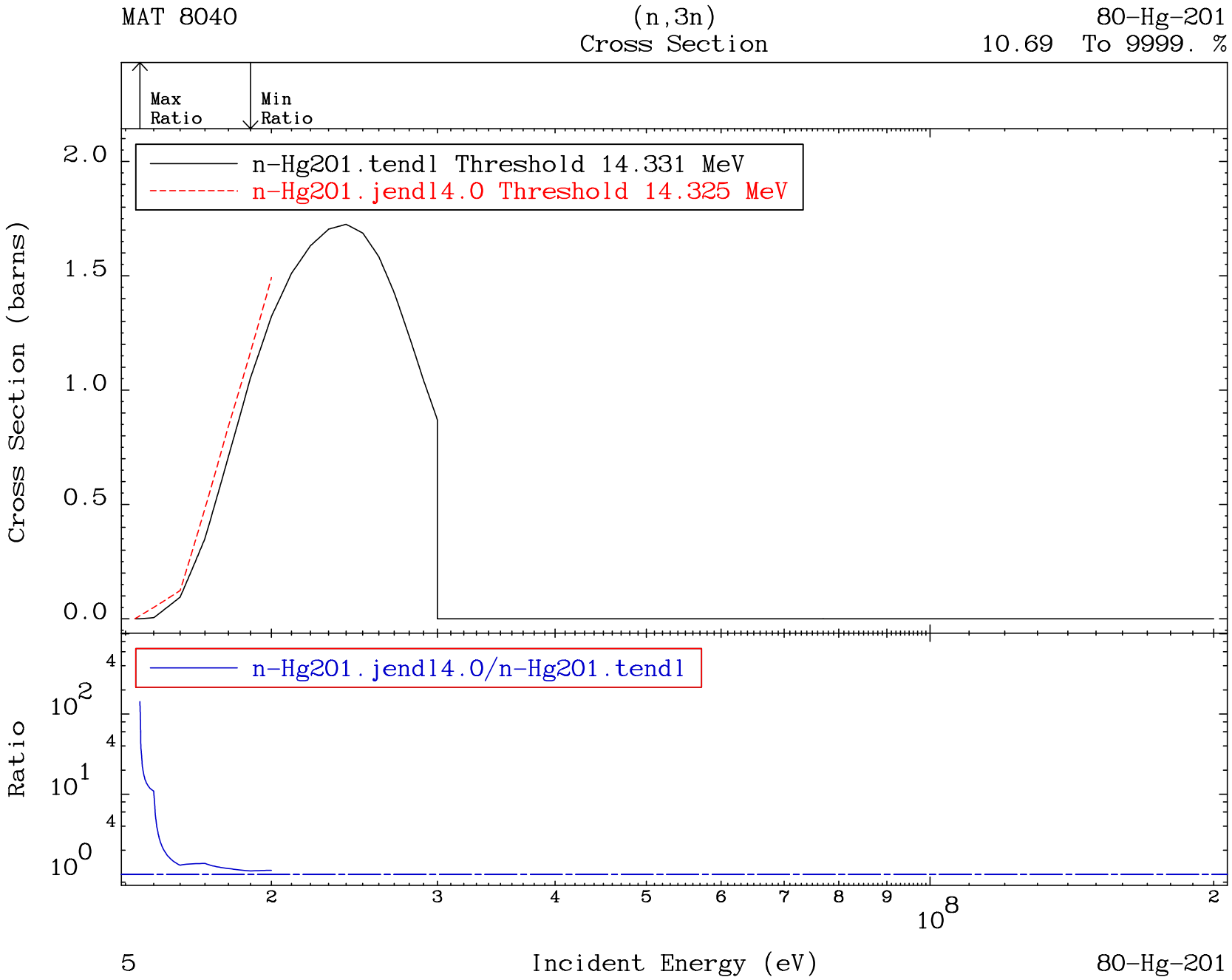
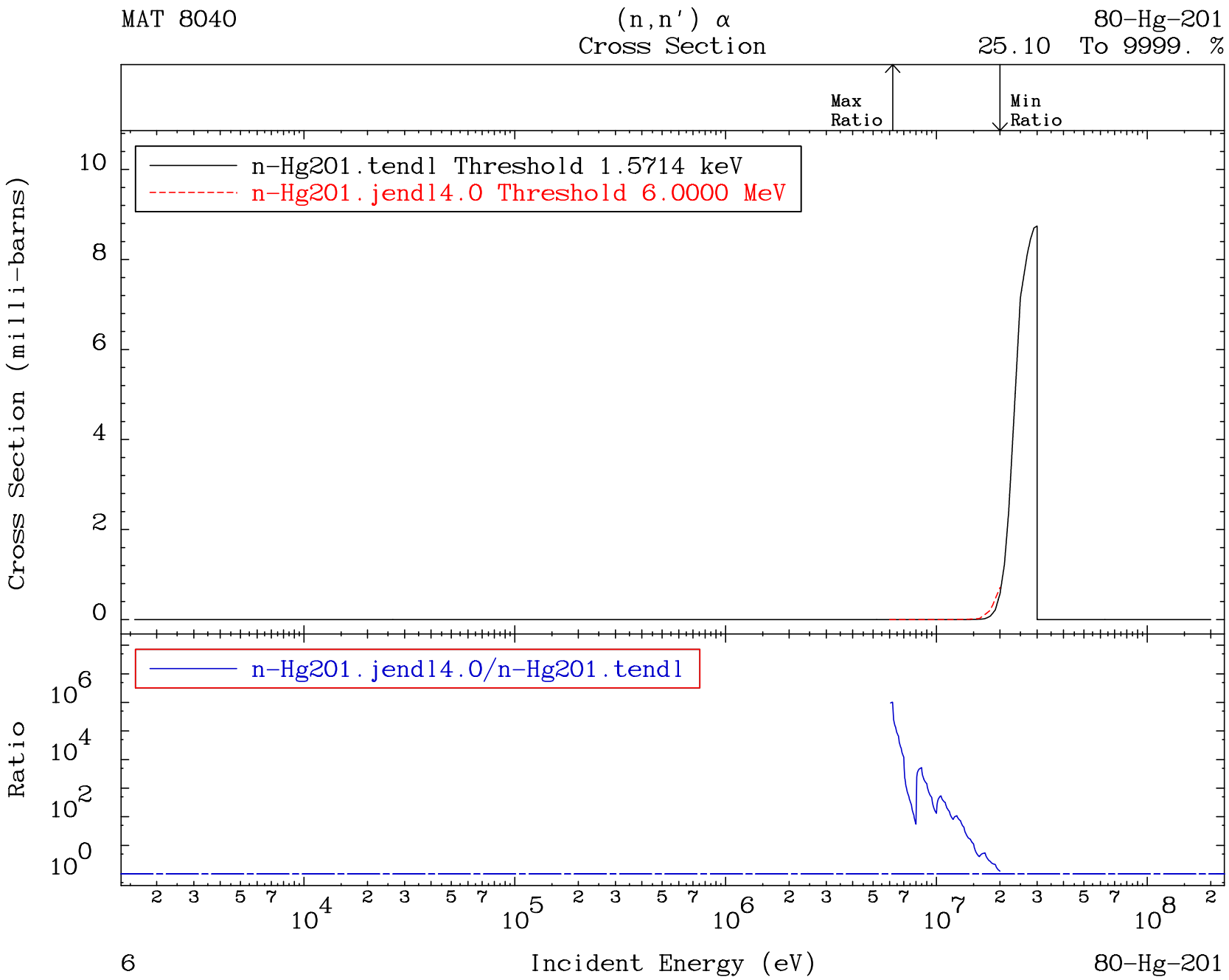

MAT 8040
Total
Cross Section
80-Hg-201
-95.12 To 473.9 %
Min Ratio
Max Ratio
n-Hg201.tendl
n-Hg201.jendl4.0
Cross Section (barns)
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
Incident Energy (eV)
1
80-Hg-201

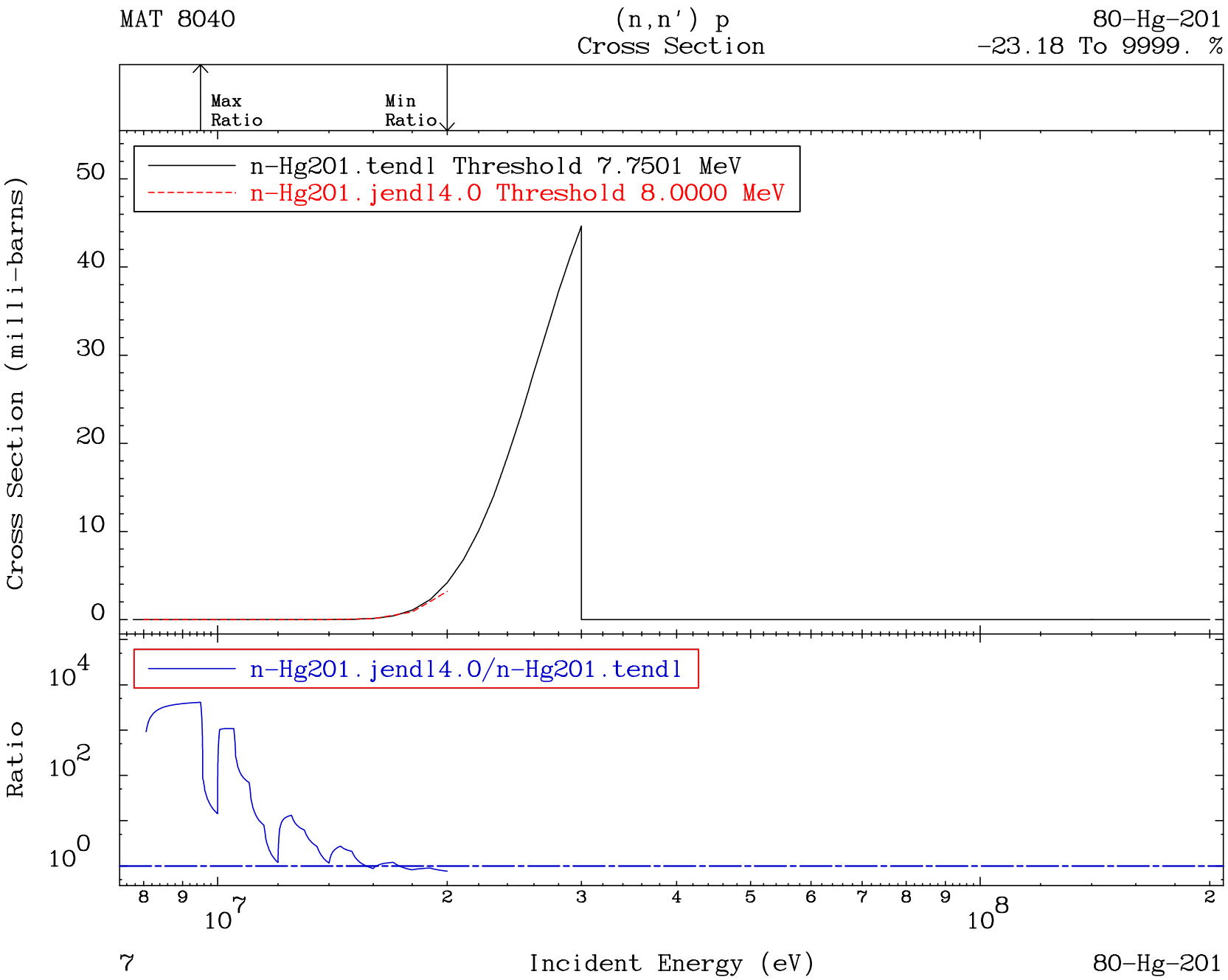

MAT 8040
Elastic
Cross Section
80-Hg-201
-92.10 To 2634. %
Min Ratio
Max Ratio
n-Hg201.tendl
n-Hg201.jendl4.0
Cross Section (barns)
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
Incident Energy (eV)
2
80-Hg-201

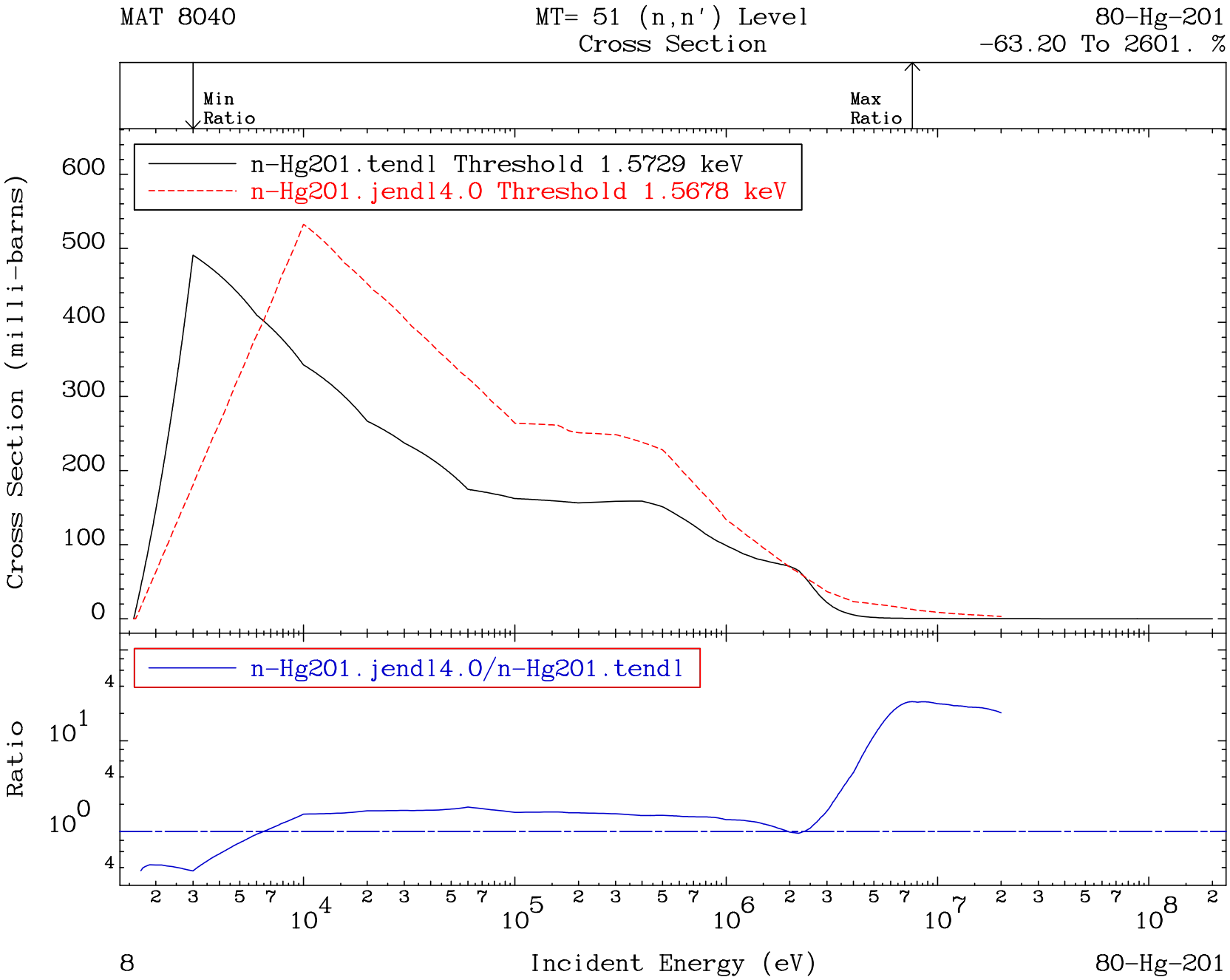

MAT 8040
Inelastic
Cross Section
80-Hg-201
-63.20 To 70.16 %
Min Ratio
Max Ratio
n-Hg201.tendl Threshold 1.5729 keV
n-Hg201.jendl4.0 Threshold 1.5678 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
1.8
1.2
0.6
2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
3
Incident Energy (eV)
80-Hg-201

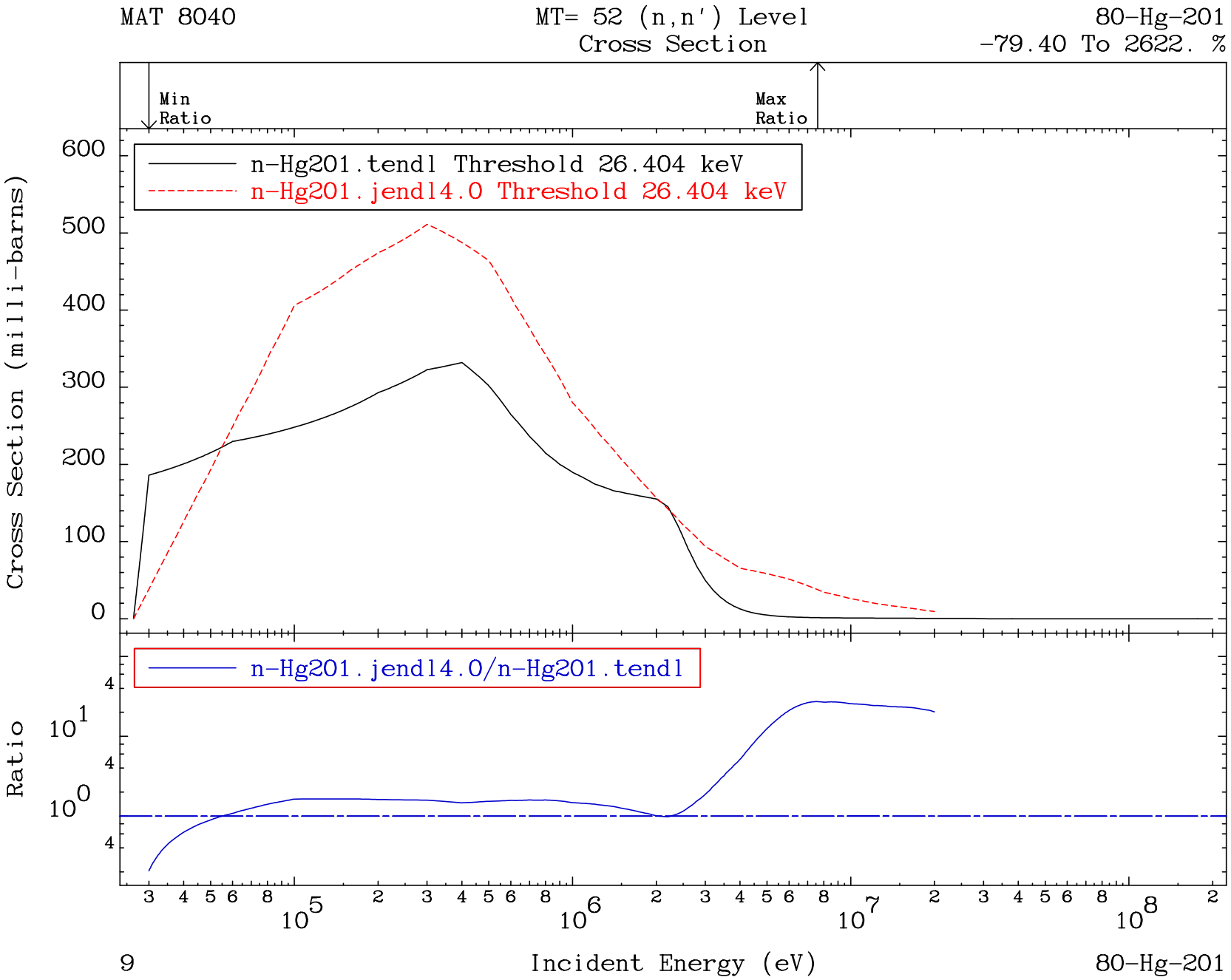

MAT 8040
(n,2n)
Cross Section
80-Hg-201
3.762 To 1219. %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 6.2619 MeV
n-Hg201.jendl4.0 Threshold 6.2559 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
2
10^1
6
4
2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
80-Hg-201

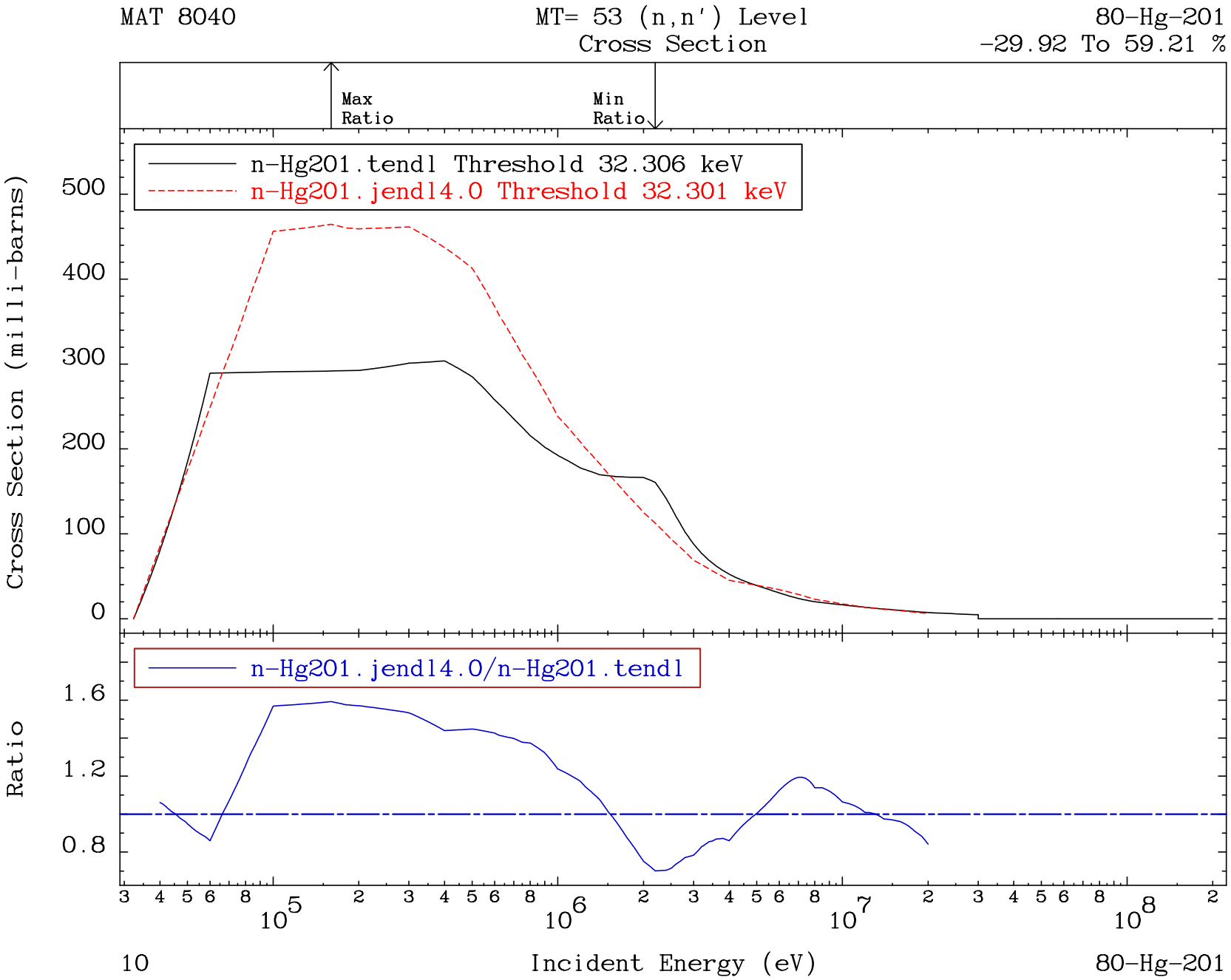

MAT 8040
(n,3n)
Cross Section
80-Hg-201
10.69 To 9999. %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 14.331 MeV
n-Hg201.jendl4.0 Threshold 14.325 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
5
Incident Energy (eV)
80-Hg-201

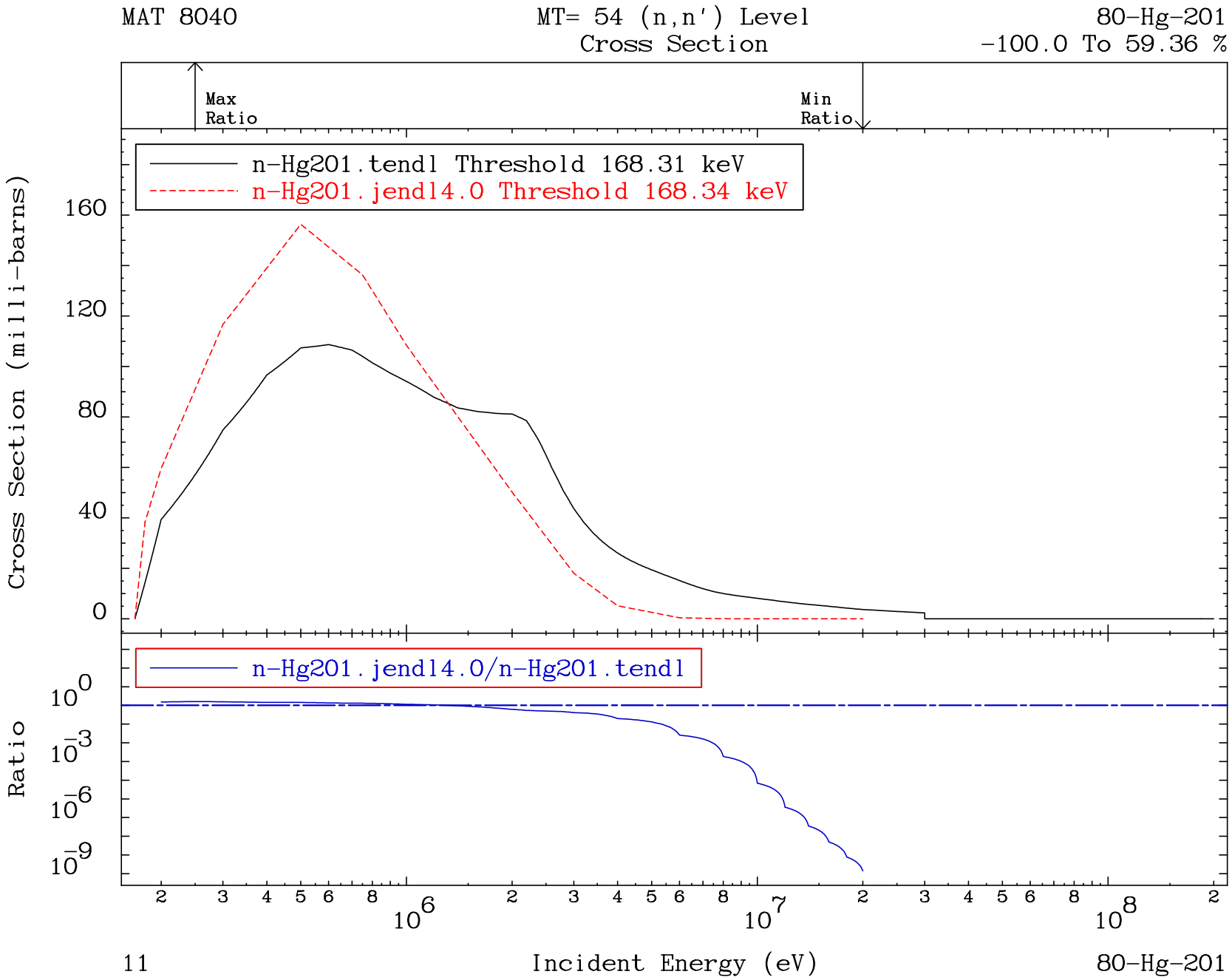

MAT 8040
(n,n') α
Cross Section
80-Hg-201
25.10 To 9999. %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 1.5714 keV
n-Hg201.jendl4.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
Incident Energy (eV)
6
80-Hg-201

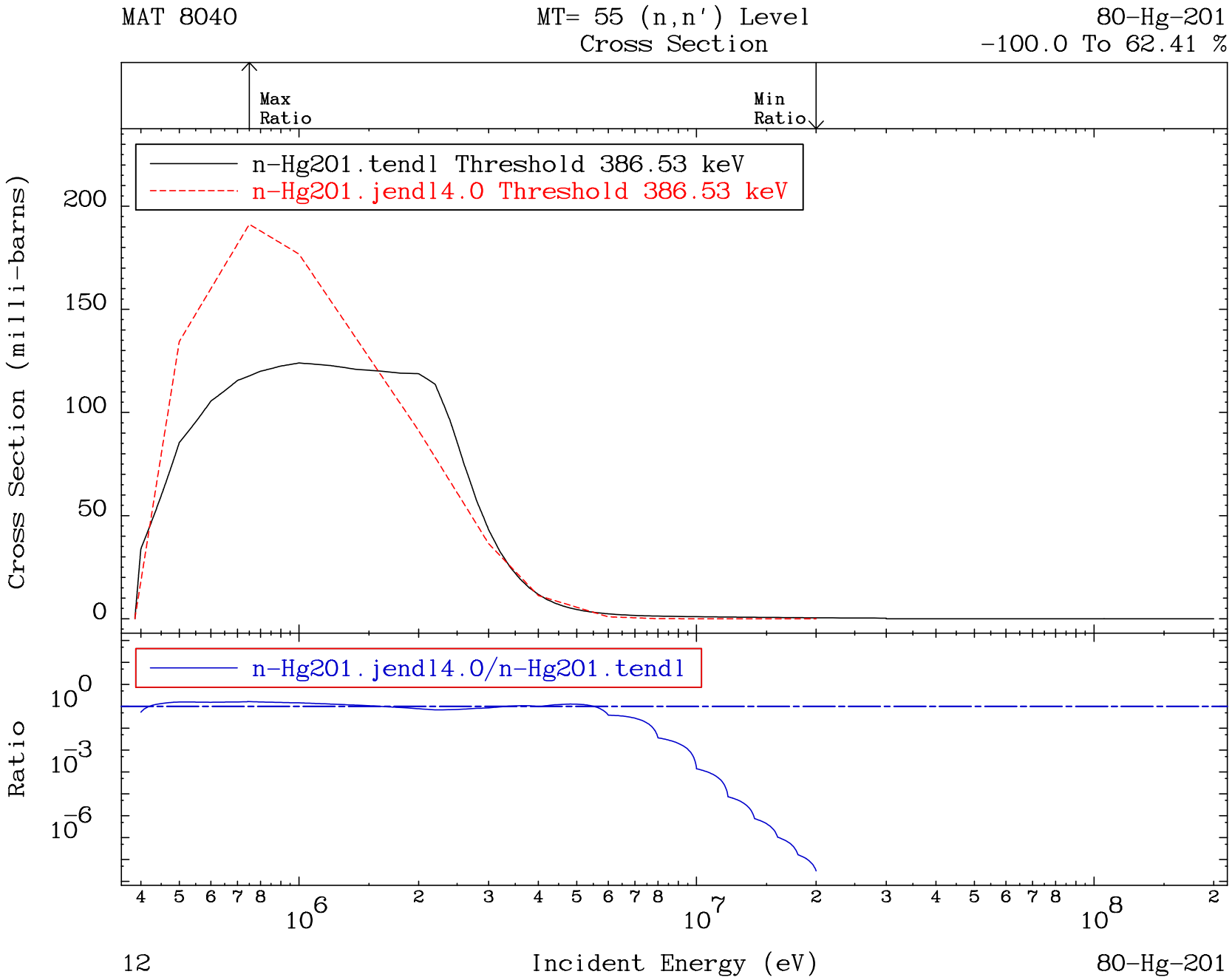

MAT 8040
(n,n') p
Cross Section
80-Hg-201
-23.18 To 9999. %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 7.7501 MeV
n-Hg201.jendl4.0 Threshold 8.0000 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
80-Hg-201

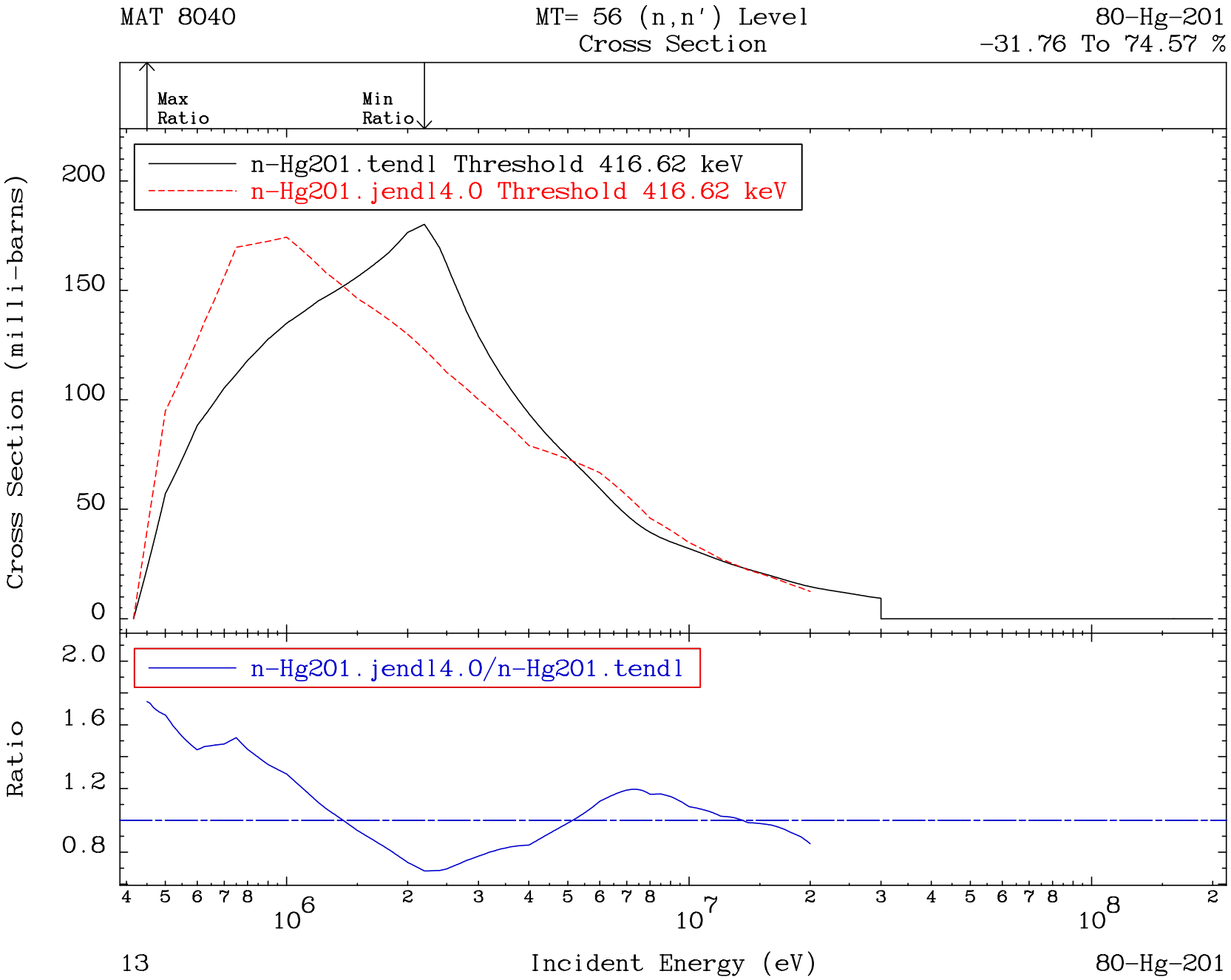

MAT 8040
MT= 51 (n,n') Level
Cross Section
80-Hg-201
-63.20 To 2601. %
Min
Ratio
Max
Ratio
n-Hg201.tendl Threshold 1.5729 keV
n-Hg201.jendl4.0 Threshold 1.5678 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
4
10^1
4
10^0
4
2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
8
Incident Energy (eV)
80-Hg-201

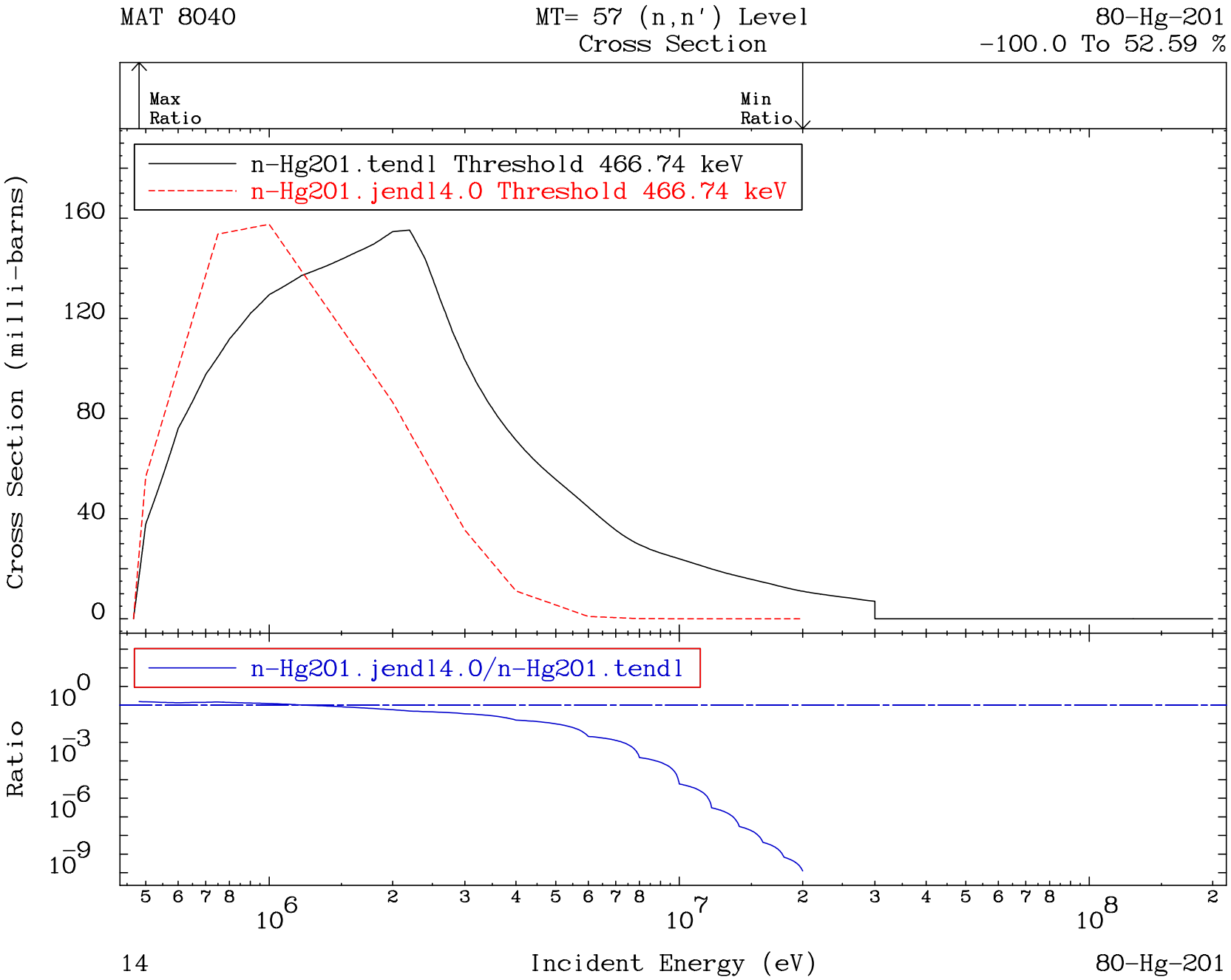

MAT 8040
MT= 52 (n,n') Level
Cross Section
80-Hg-201
-79.40 To 2622. %
Min
Ratio
Max
Ratio
n-Hg201.tendl Threshold 26.404 keV
n-Hg201.jendl4.0 Threshold 26.404 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
4
10^1
4
10^0
4
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
9
Incident Energy (eV)
80-Hg-201

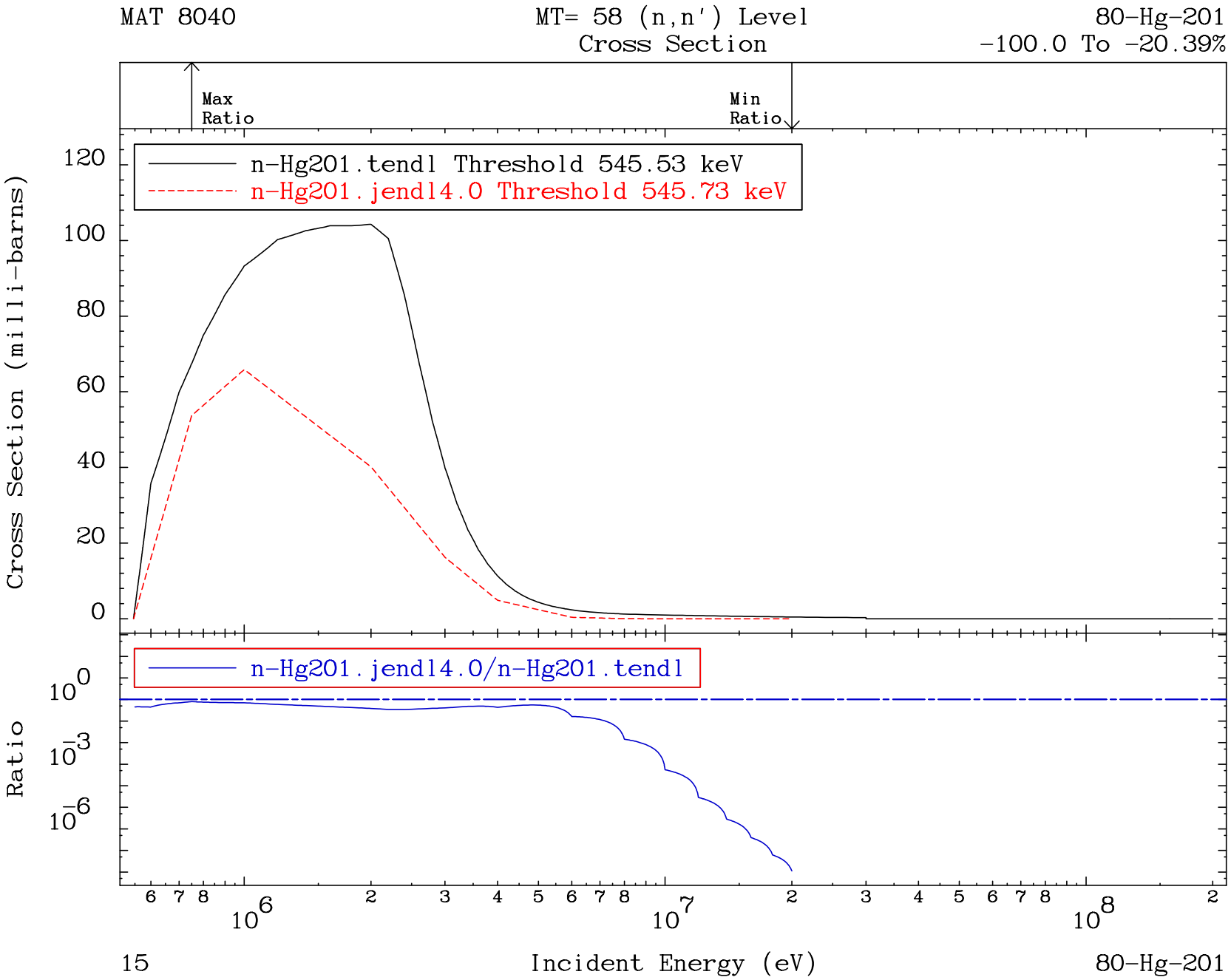

MAT 8040
MT= 53 (n,n') Level
Cross Section
80-Hg-201
-29.92 To 59.21 %
Max
Ratio
Min
Ratio
n-Hg201.tendl Threshold 32.306 keV
n-Hg201.jendl4.0 Threshold 32.301 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
1.6
1.2
0.8
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
80-Hg-201

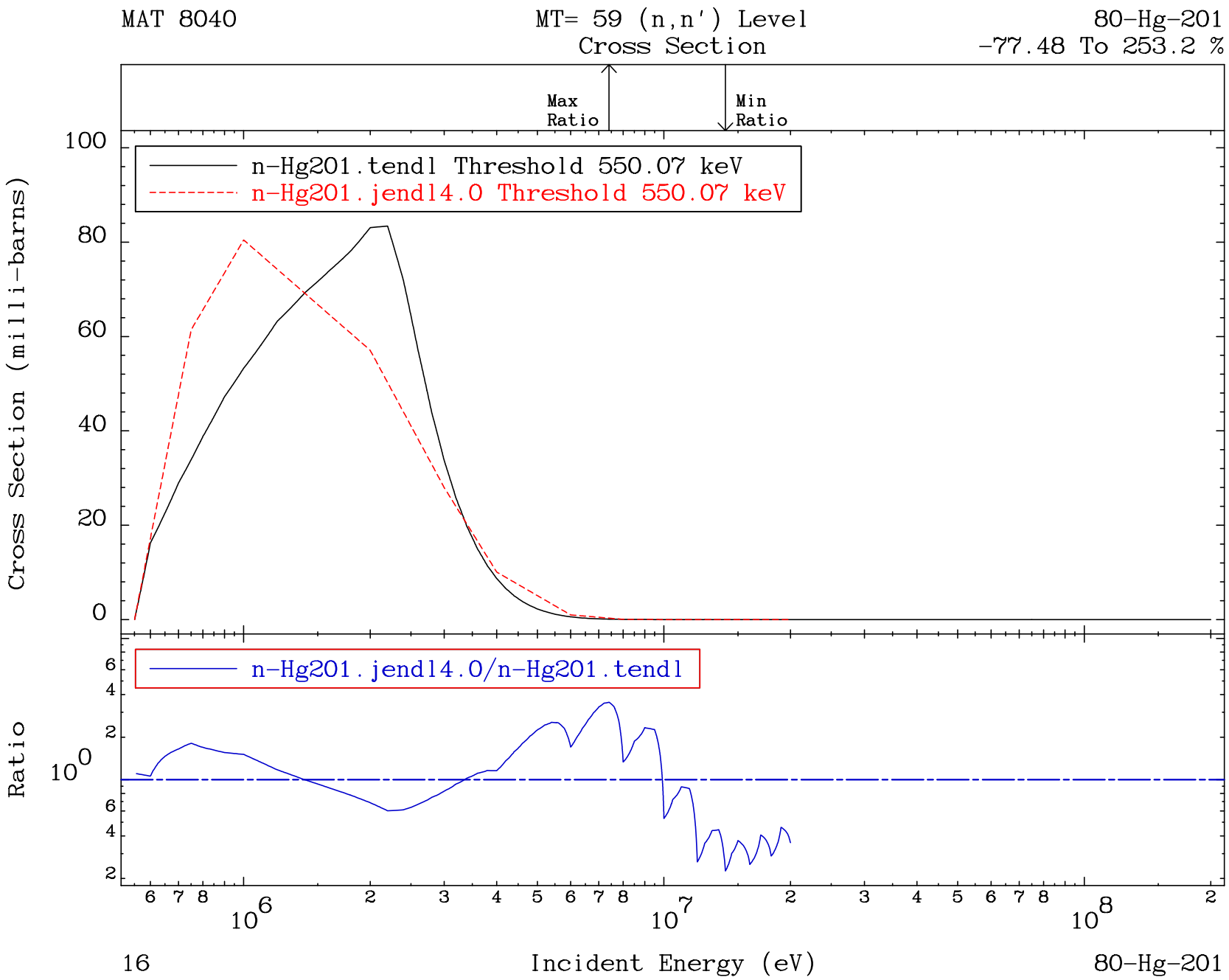

MAT 8040
MT= 54 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 59.36 %
Max
Ratio
Min
Ratio
n-Hg201.tendl Threshold 168.31 keV
n-Hg201.jendl4.0 Threshold 168.34 keV
Cross Section (milli-barns)
160
120
80
40
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
80-Hg-201

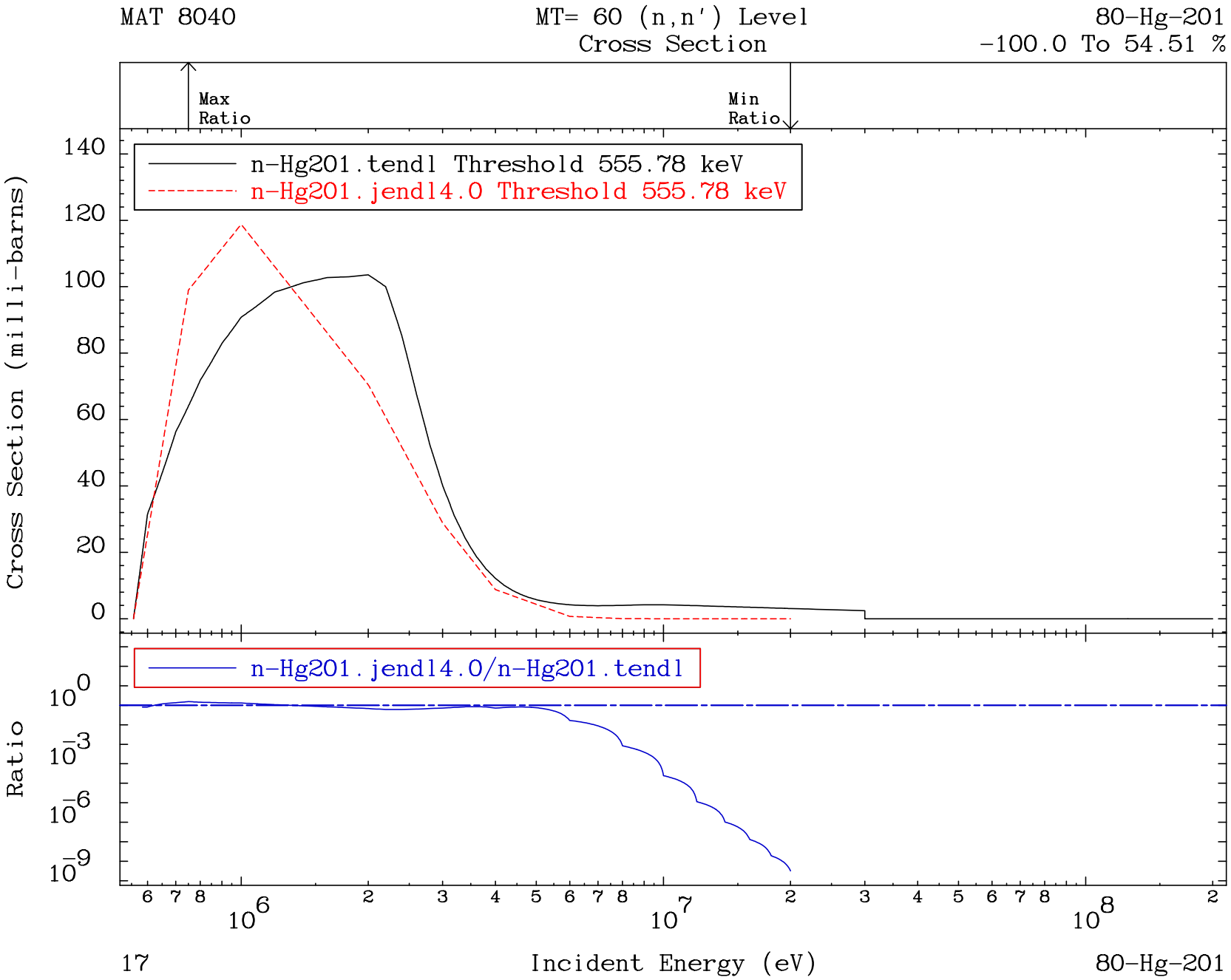

MAT 8040
MT= 55 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 62.41 %
Max
Ratio
Min
Ratio
n-Hg201.tendl Threshold 386.53 keV
n-Hg201.jendl4.0 Threshold 386.53 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^0
10^-3
10^-6
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
80-Hg-201

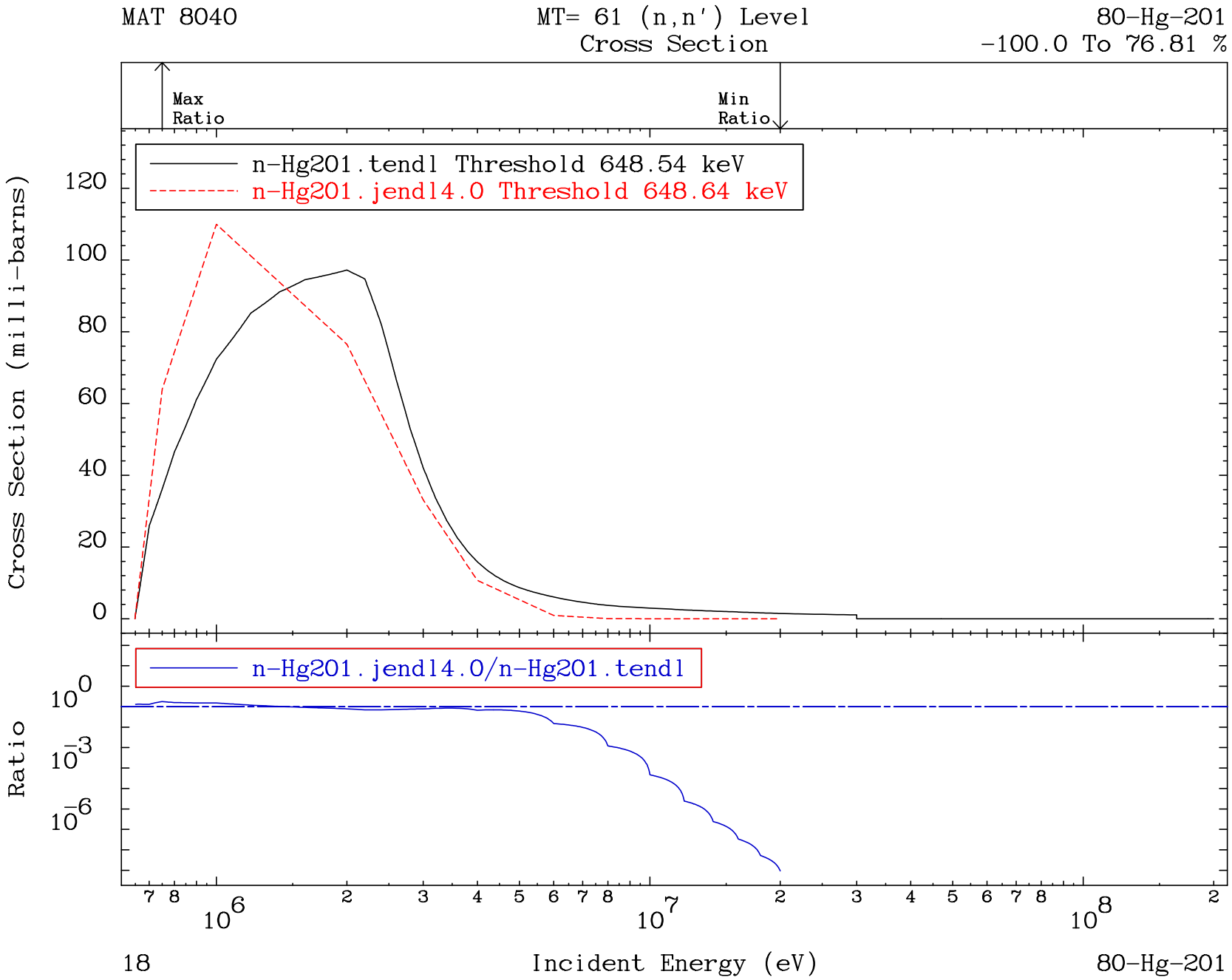

MAT 8040
MT= 56 (n,n') Level
Cross Section
80-Hg-201
-31.76 To 74.57 %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 416.62 keV
n-Hg201.jendl4.0 Threshold 416.62 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
2.0
1.6
1.2
0.8
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
80-Hg-201

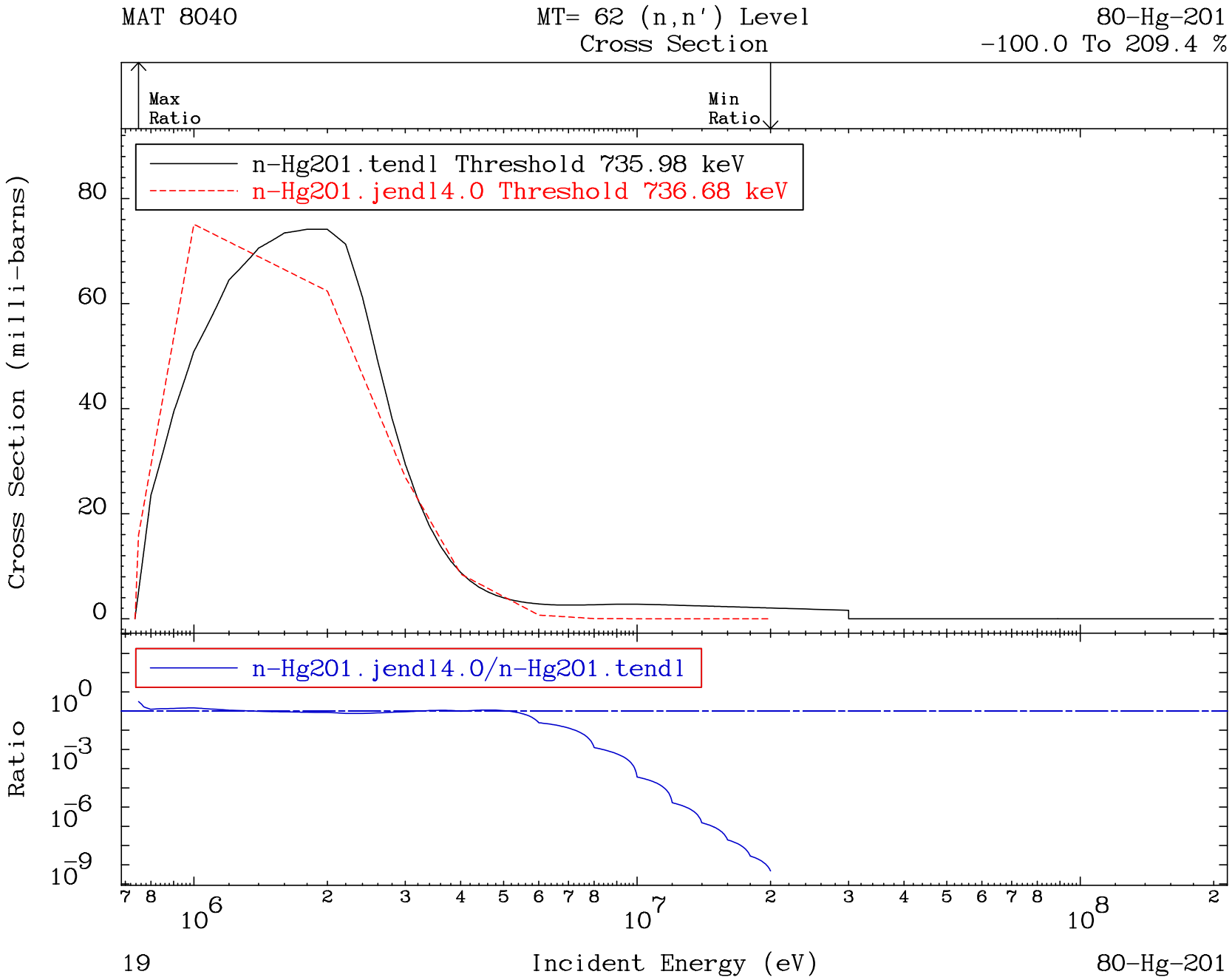

MAT 8040
MT= 57 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 52.59 %
Max
Ratio
Min
Ratio
n-Hg201.tendl Threshold 466.74 keV
n-Hg201.jendl4.0 Threshold 466.74 keV
Cross Section (milli-barns)
160
120
80
40
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^0
10^-3
10^-6
10^-9
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
80-Hg-201

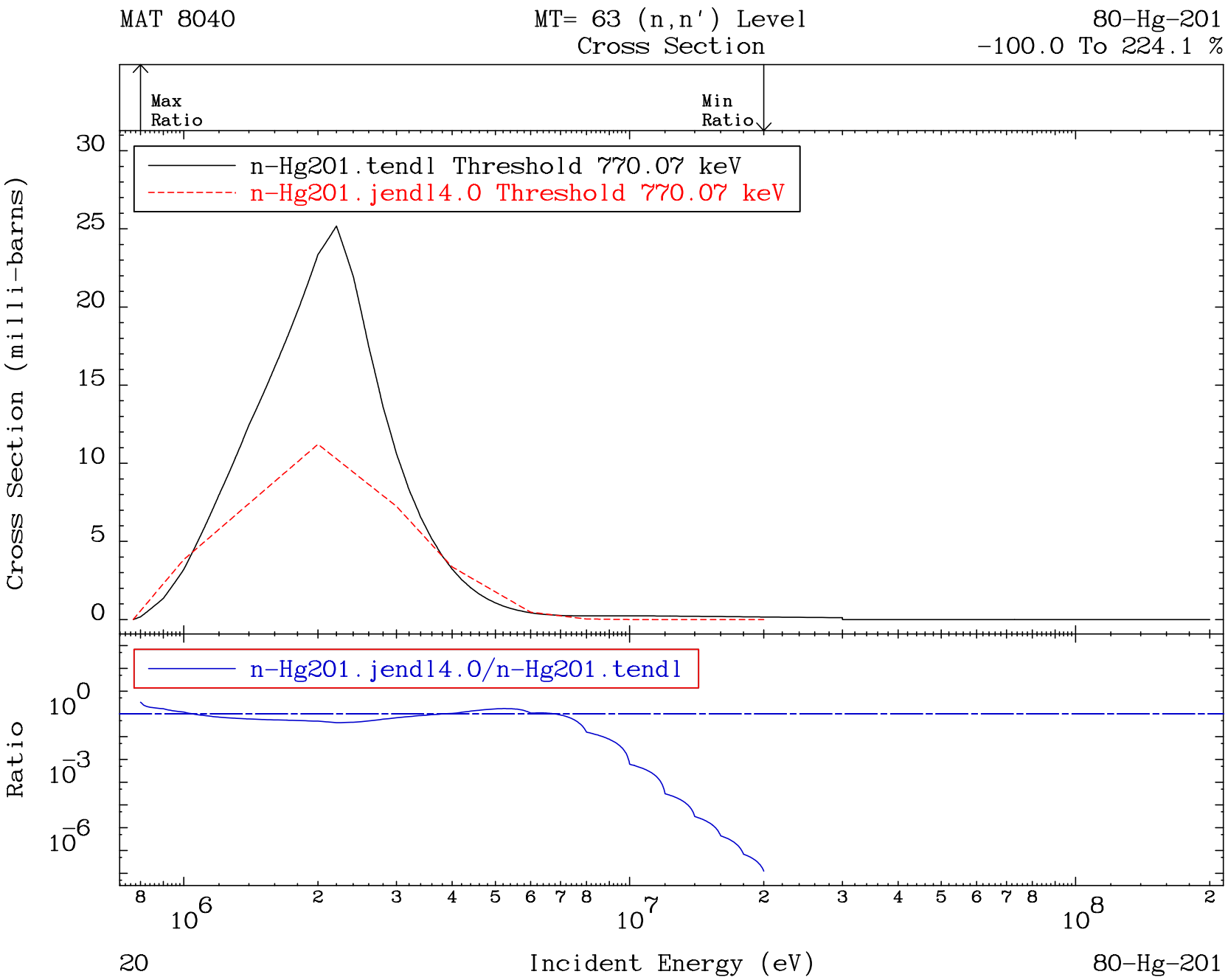

MAT 8040
MT= 58 (n,n') Level
Cross Section
80-Hg-201
-100.0 To -20.39%
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 545.53 keV
n-Hg201.jendl4.0 Threshold 545.73 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^0
10^-3
10^-6
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
80-Hg-201

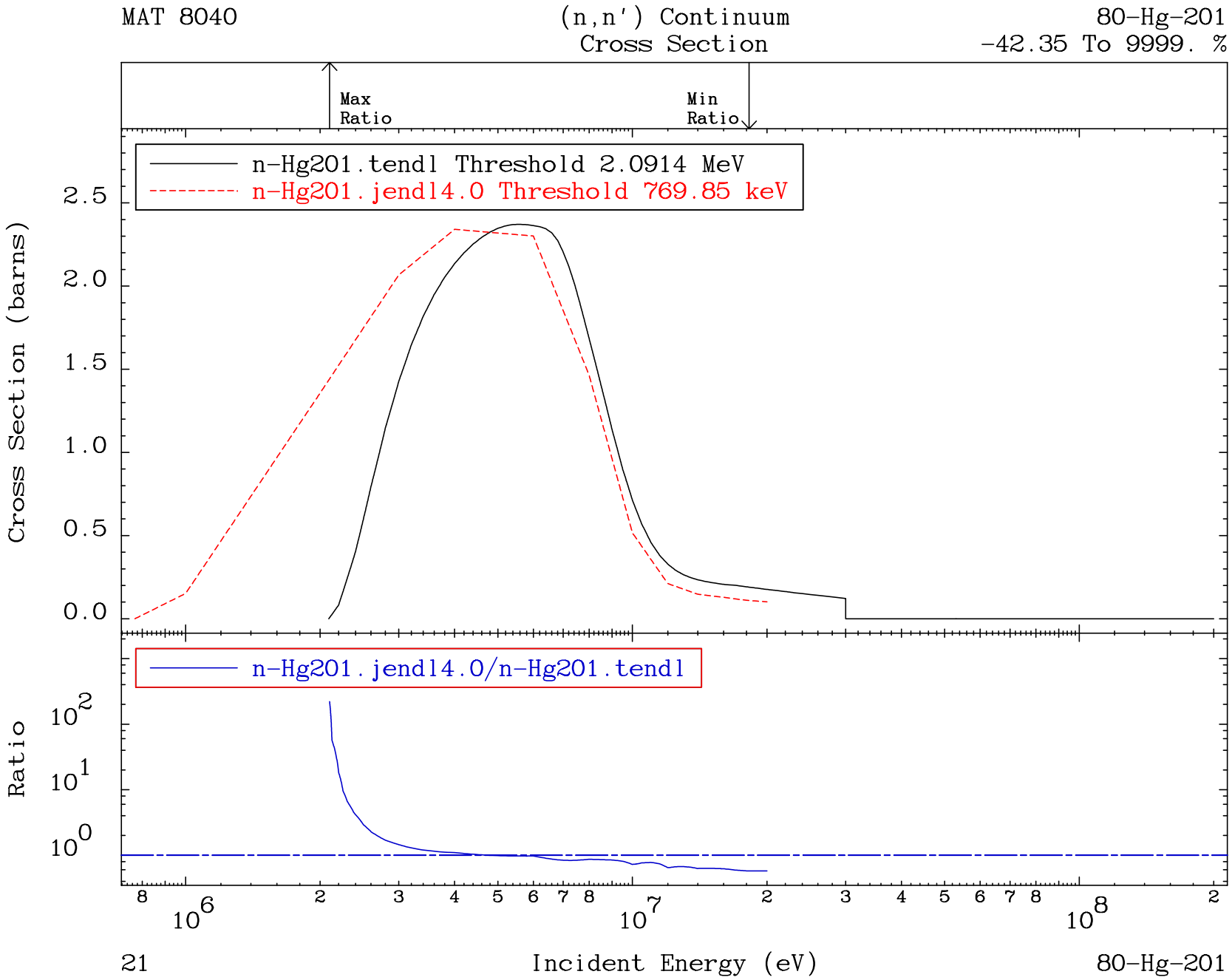

MAT 8040
MT= 59 (n,n') Level
Cross Section
80-Hg-201
-77.48 To 253.2 %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 550.07 keV
n-Hg201.jendl4.0 Threshold 550.07 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
6
4
2
10^0
6
4
2
6 7 8
10^6
2
3
4
5
6 7 8
10^7
2
3
4
5
6 7 8
10^8
2
16
Incident Energy (eV)
80-Hg-201

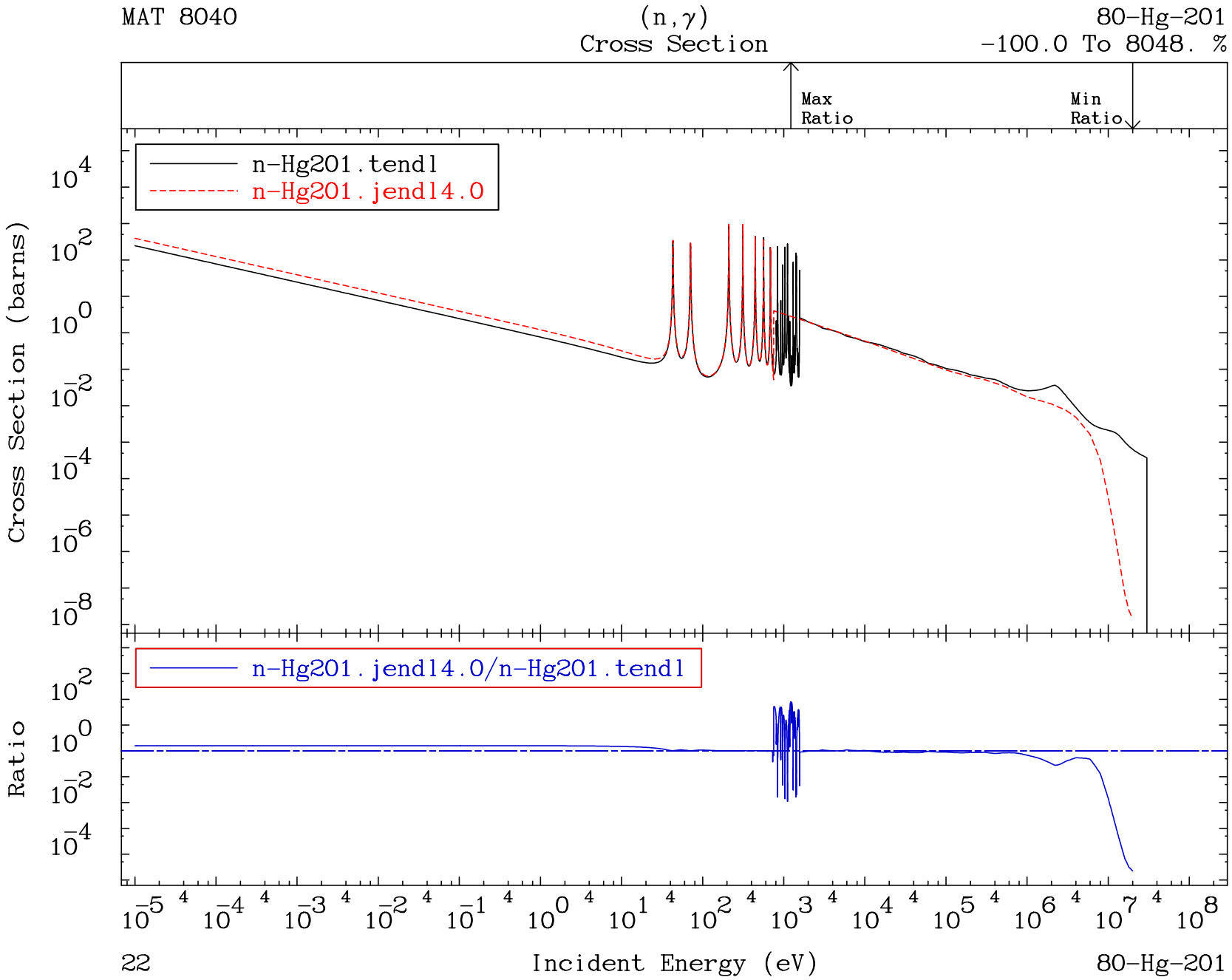

MAT 8040
MT= 60 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 54.51 %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 555.78 keV
n-Hg201.jendl4.0 Threshold 555.78 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^0
10^-3
10^-6
10^-9
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
80-Hg-201

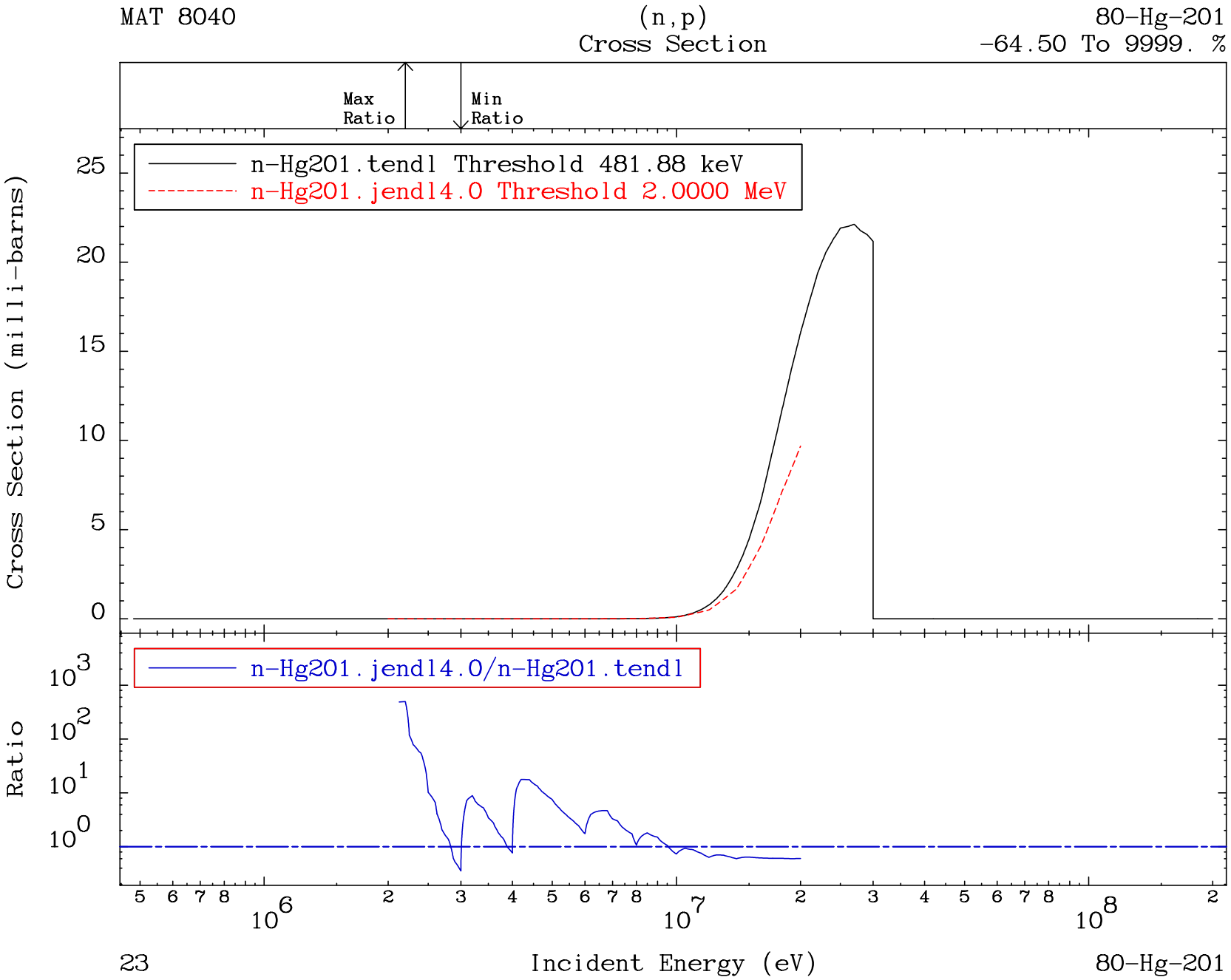

MAT 8040
MT= 61 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 76.81 %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 648.54 keV
n-Hg201.jendl4.0 Threshold 648.64 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^0
10^-3
10^-6
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
80-Hg-201

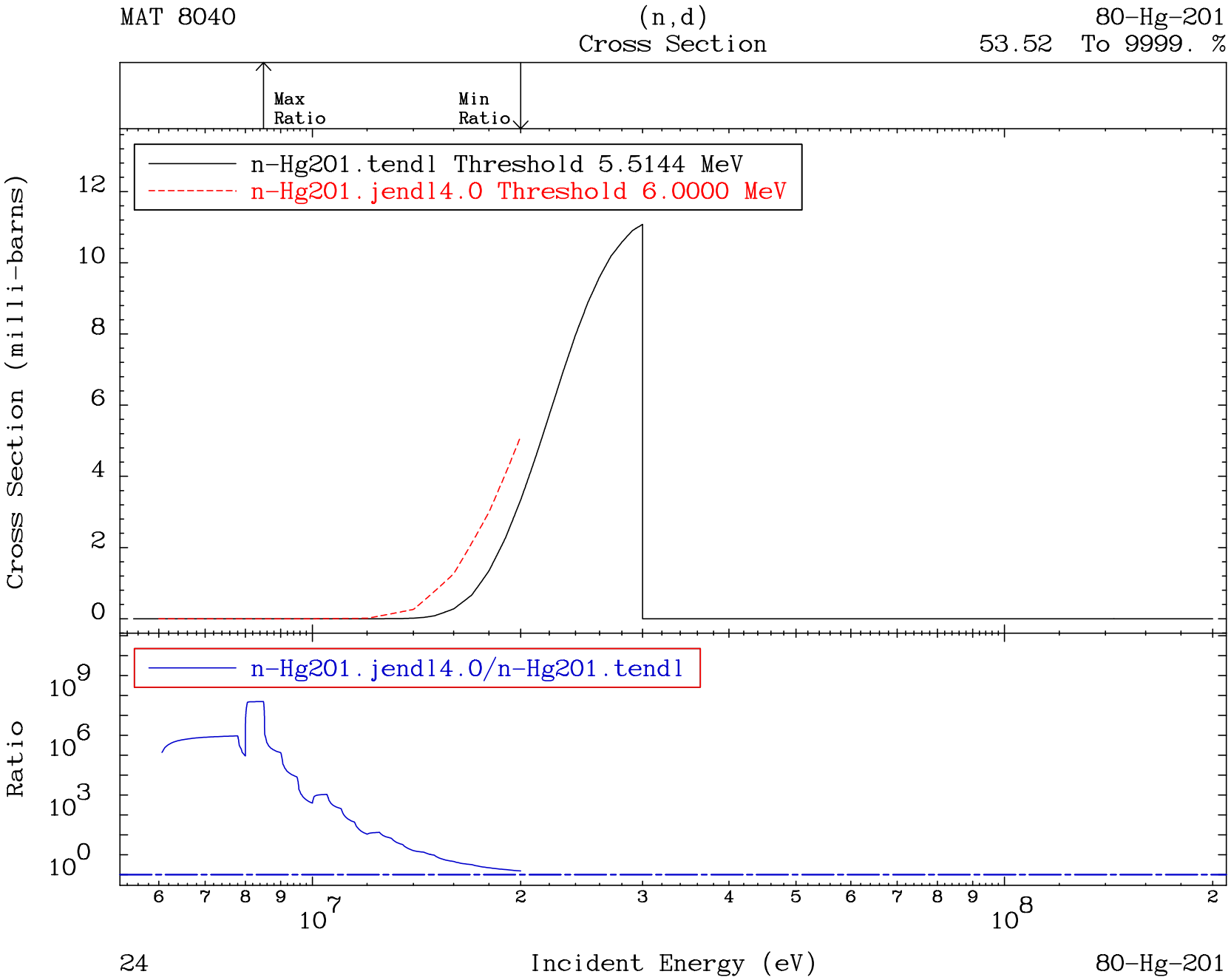

MAT 8040
MT= 62 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 209.4 %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 735.98 keV
n-Hg201.jendl4.0 Threshold 736.68 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^0
10^-3
10^-6
10^-9
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
80-Hg-201

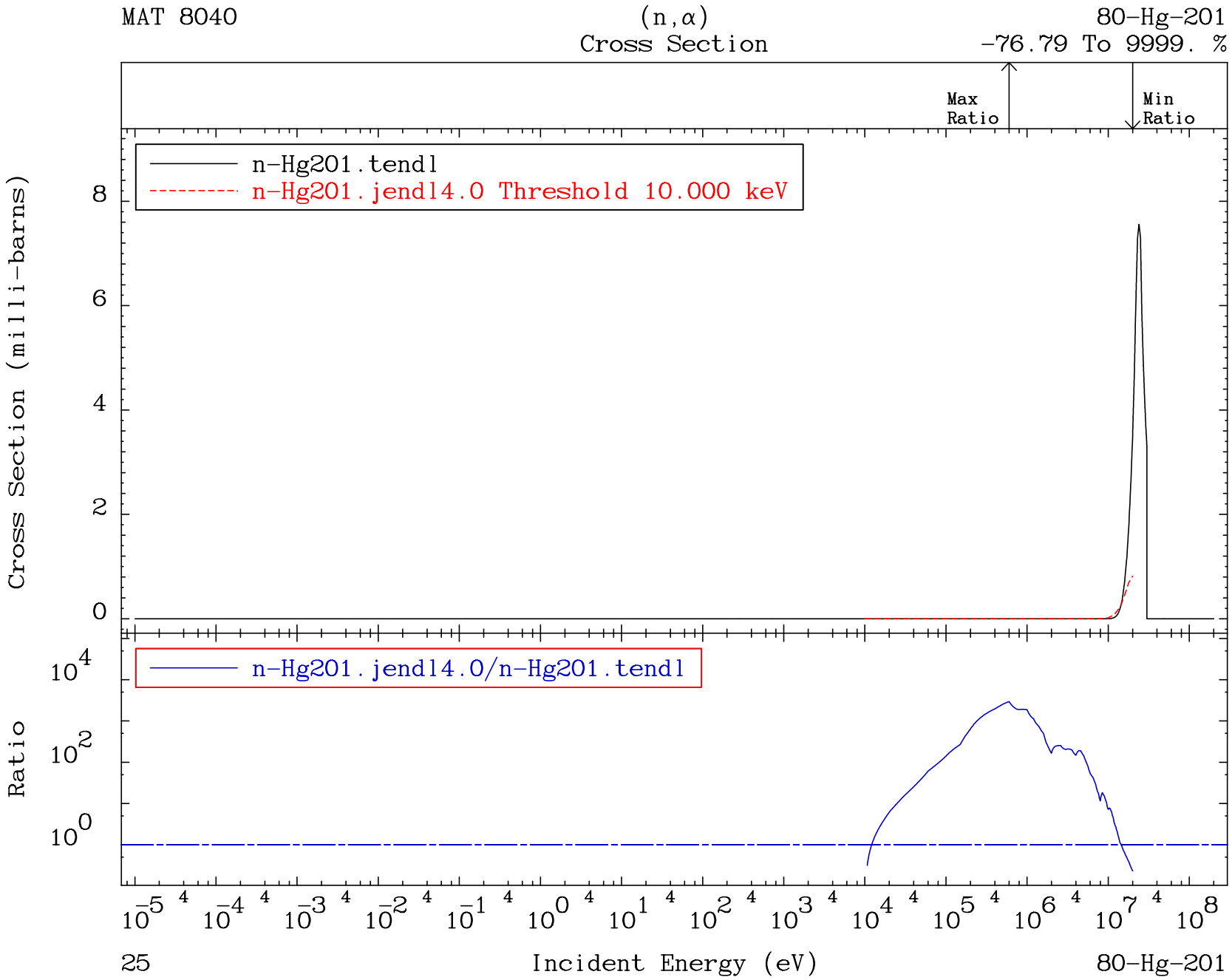

MAT 8040
MT= 63 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 224.1 %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 770.07 keV
n-Hg201.jendl4.0 Threshold 770.07 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^0
10^-3
10^-6
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
80-Hg-201

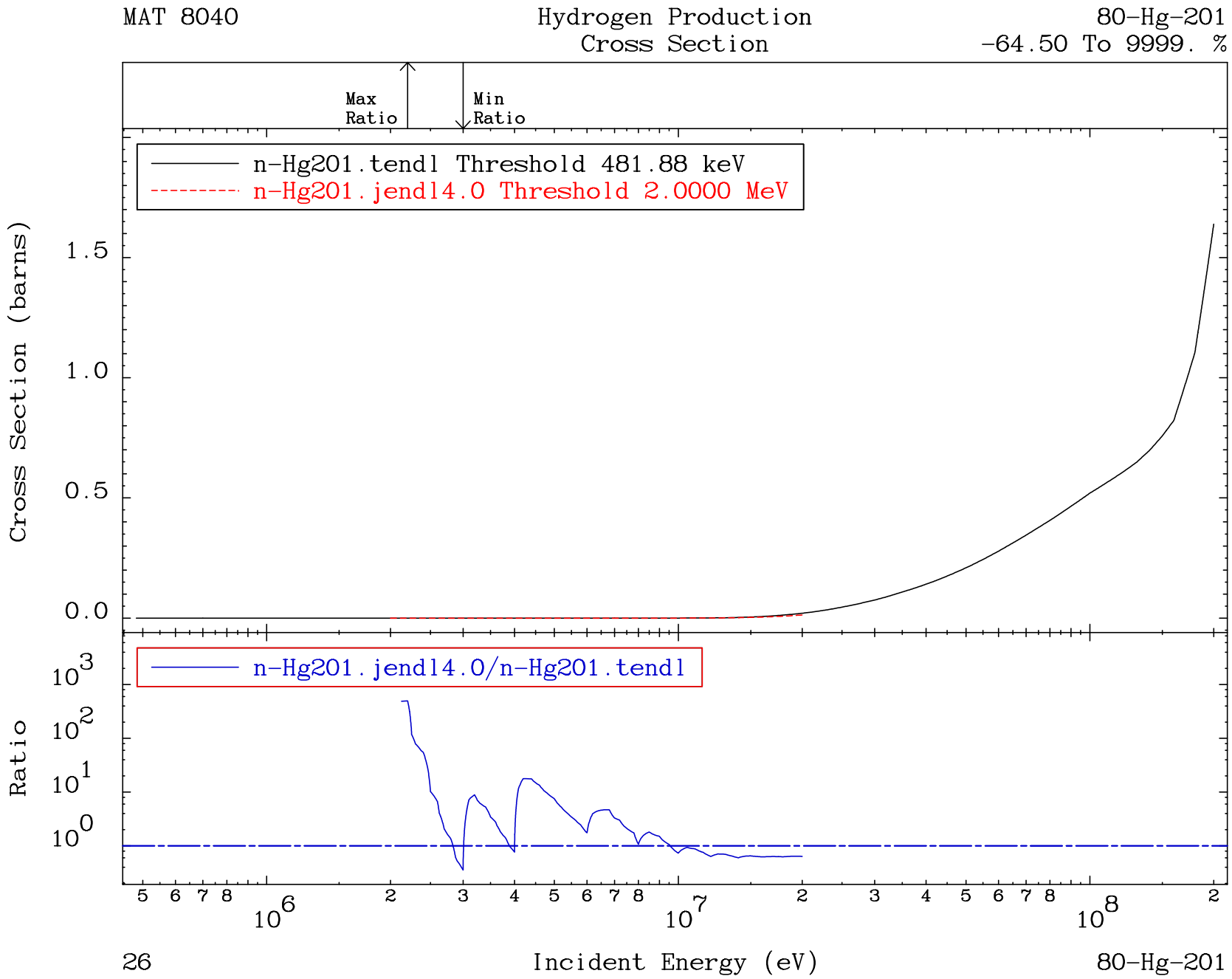

MAT 8040
(n,n') Continuum
Cross Section
80-Hg-201
-42.35 To 9999. %
Max
Ratio
Min
Ratio
n-Hg201.tendl Threshold 2.0914 MeV
n-Hg201.jendl4.0 Threshold 769.85 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^2
10^1
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
80-Hg-201

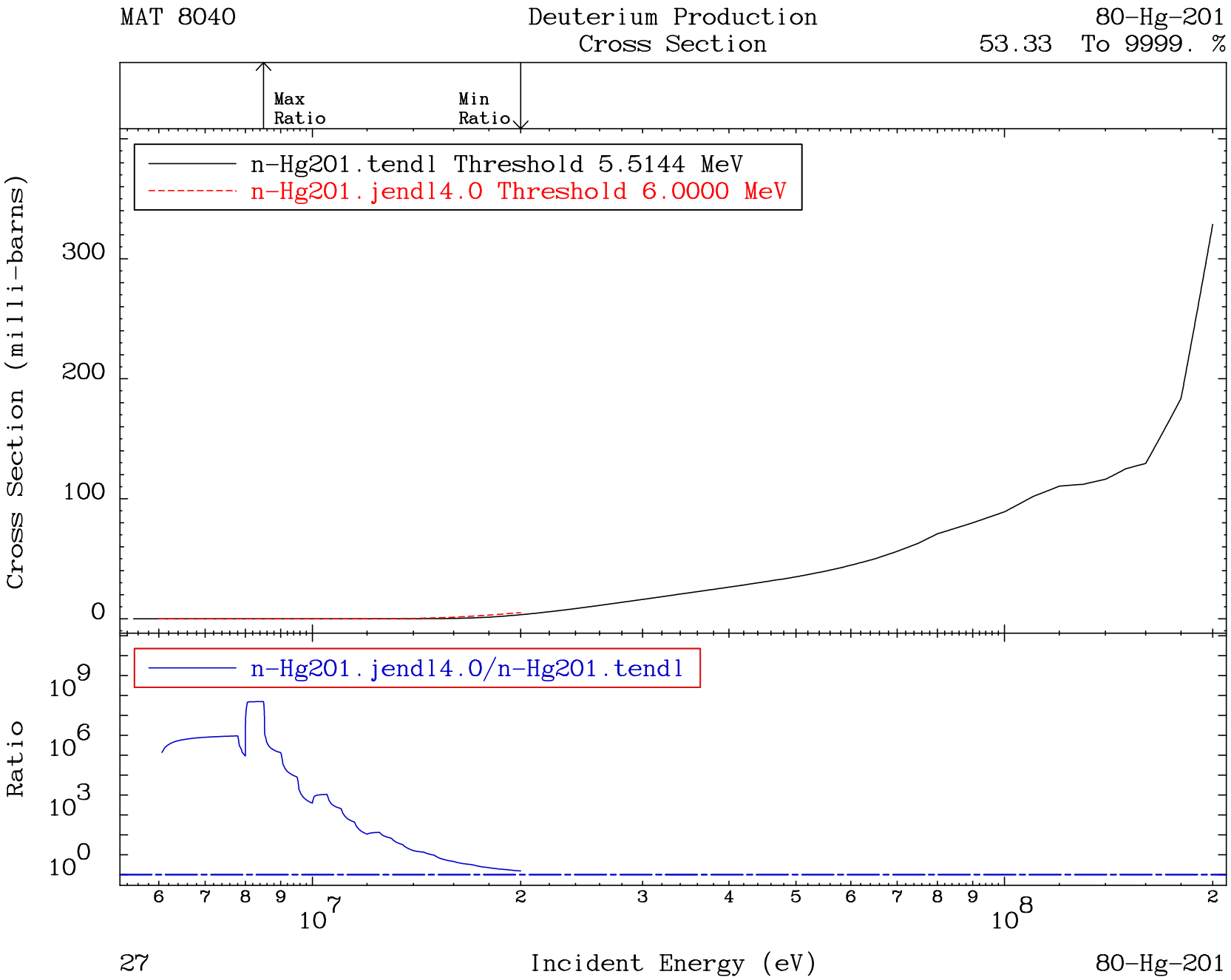

MAT 8040
(n,γ)
Cross Section
80-Hg-201
-100.0 To 8048. %
Max Ratio
Min Ratio
n-Hg201.tendl
n-Hg201.jendl4.0
Cross Section (barns)
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
Incident Energy (eV)
22
80-Hg-201

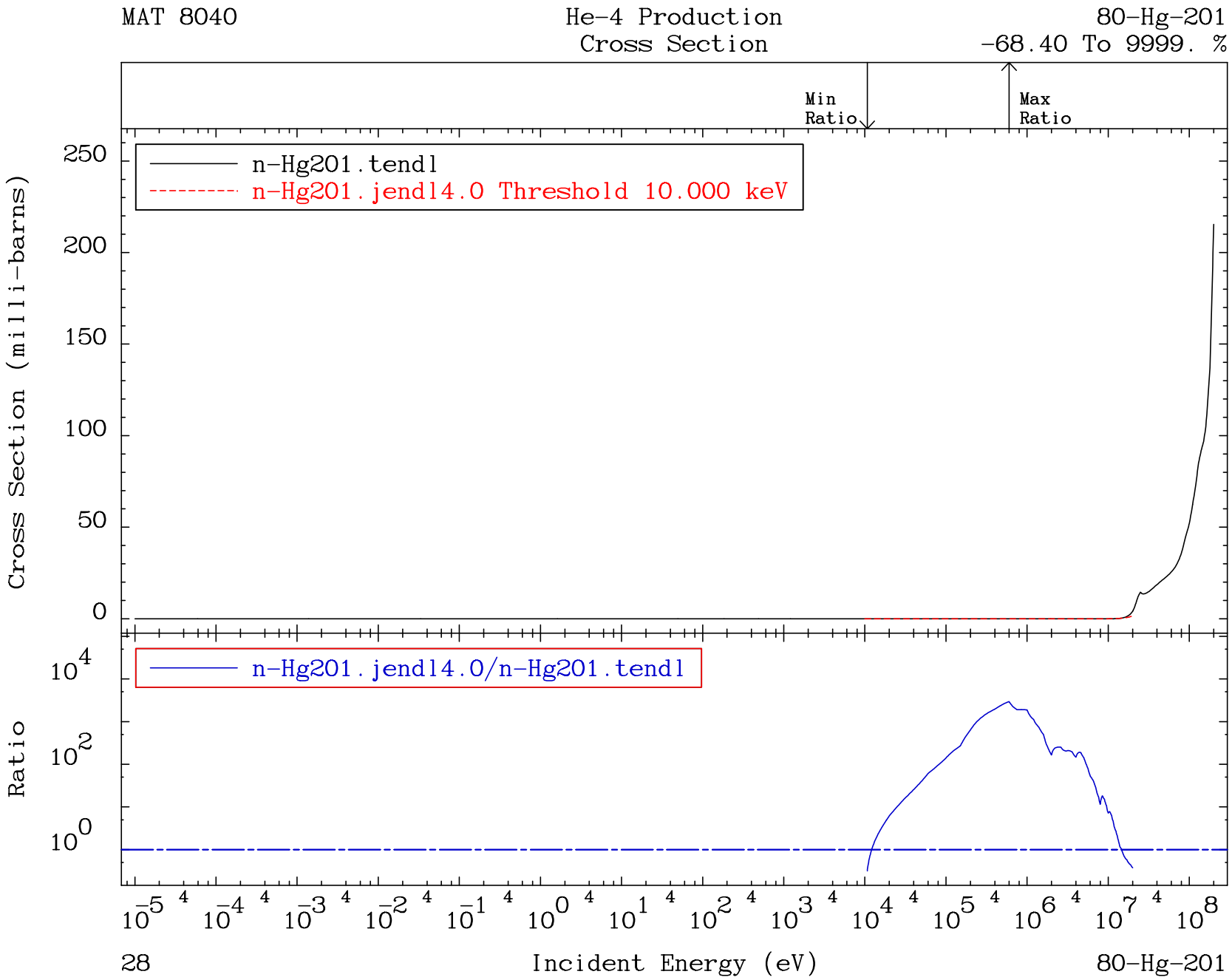

MAT 8040
(n,p)
Cross Section
80-Hg-201
-64.50 To 9999. %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 481.88 keV
n-Hg201.jendl4.0 Threshold 2.0000 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^3
10^2
10^1
10^0
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
80-Hg-201

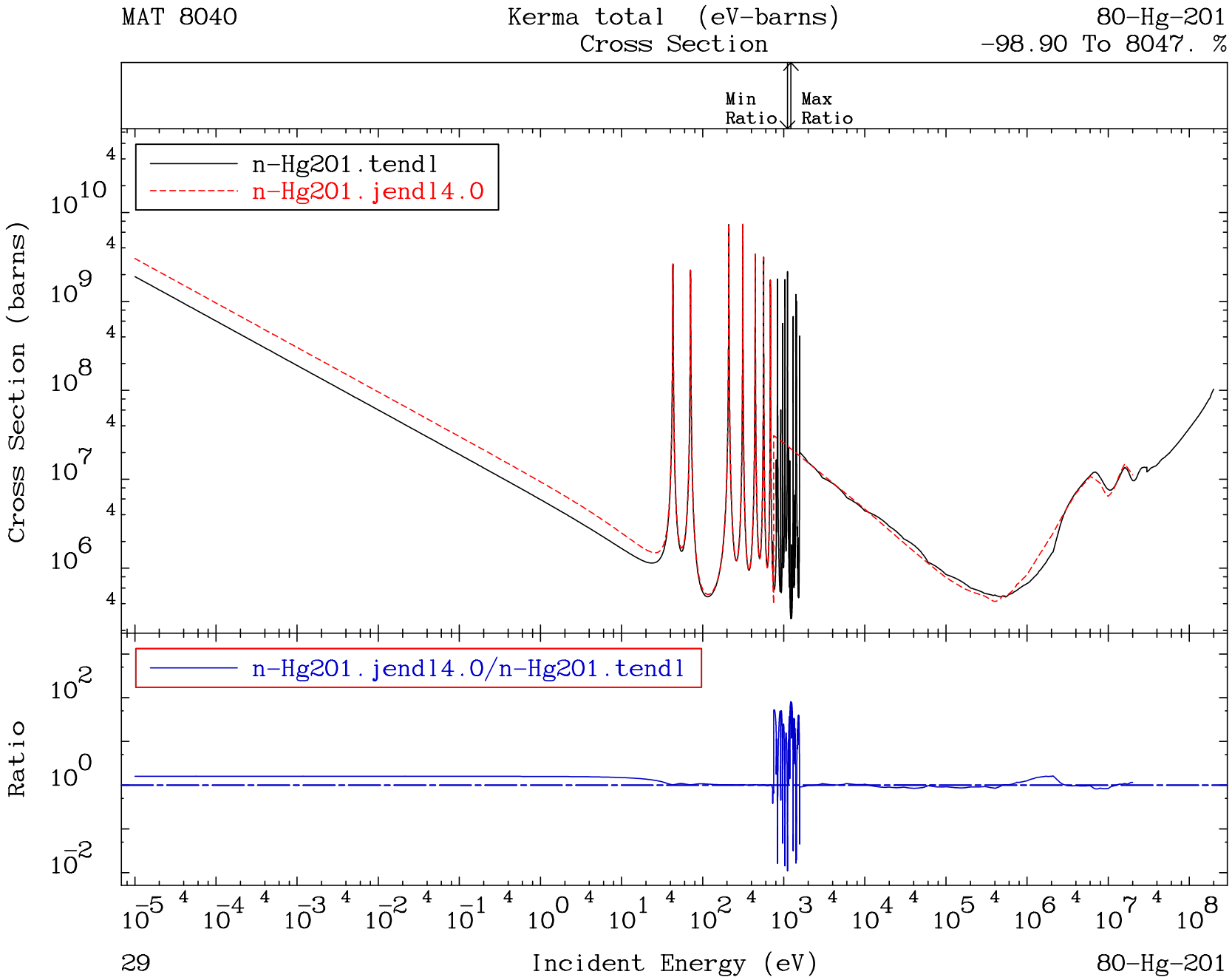

MAT 8040
(n,d)
Cross Section
80-Hg-201
53.52 To 9999. %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 5.5144 MeV
n-Hg201.jendl4.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^0
10^3
10^6
10^9
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
80-Hg-201

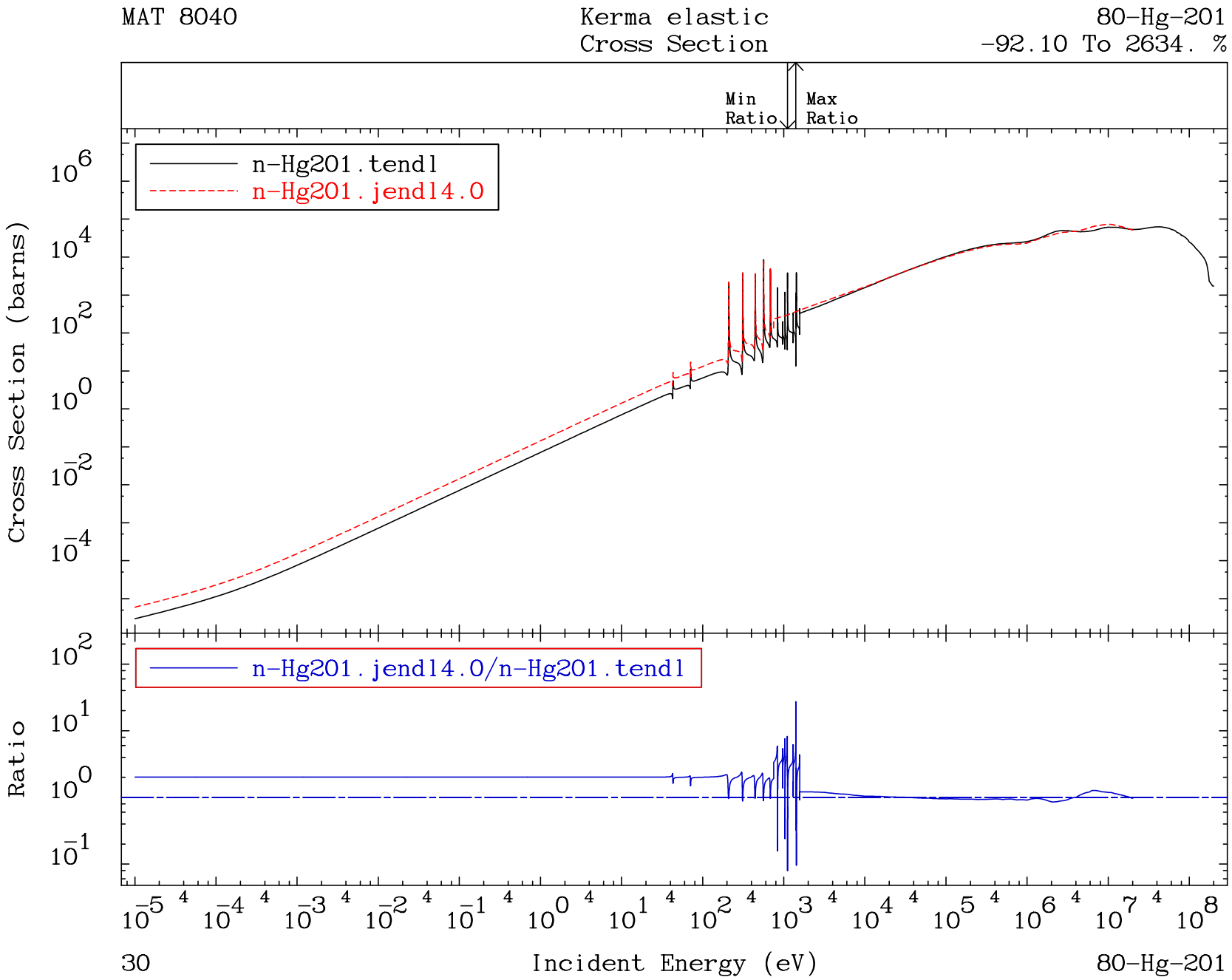

MAT 8040
(n,α)
Cross Section
80-Hg-201
-76.79 To 9999. %
Max Ratio
Min Ratio
n-Hg201.tendl
n-Hg201.jendl4.0 Threshold 10.000 keV
Cross Section (milli-barns)
0
2
4
6
8
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^4
10^2
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
25
Incident Energy (eV)
80-Hg-201

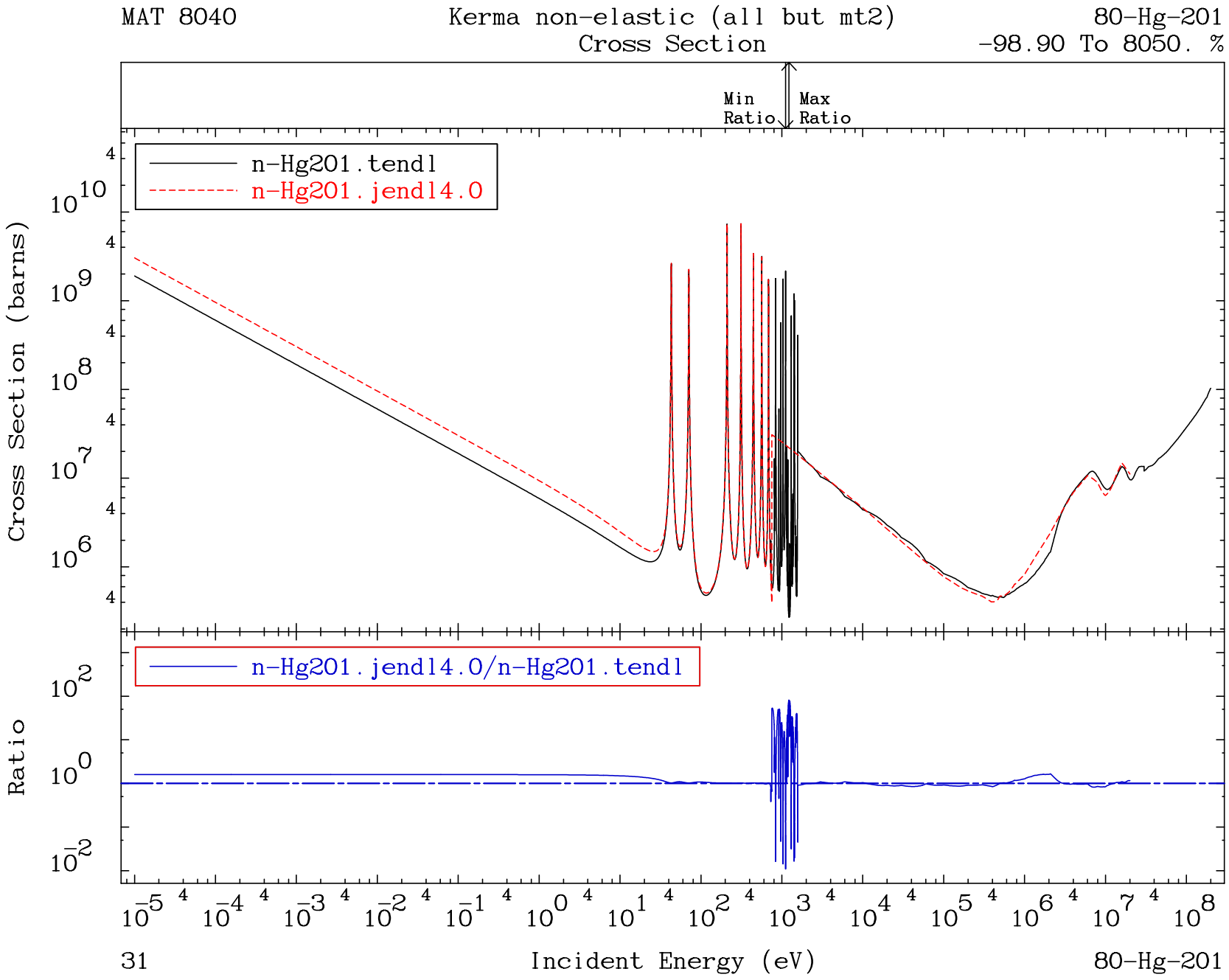

MAT 8040
Hydrogen Production
Cross Section
80-Hg-201
-64.50 To 9999. %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 481.88 keV
n-Hg201.jendl4.0 Threshold 2.0000 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^3
10^2
10^1
10^0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
80-Hg-201

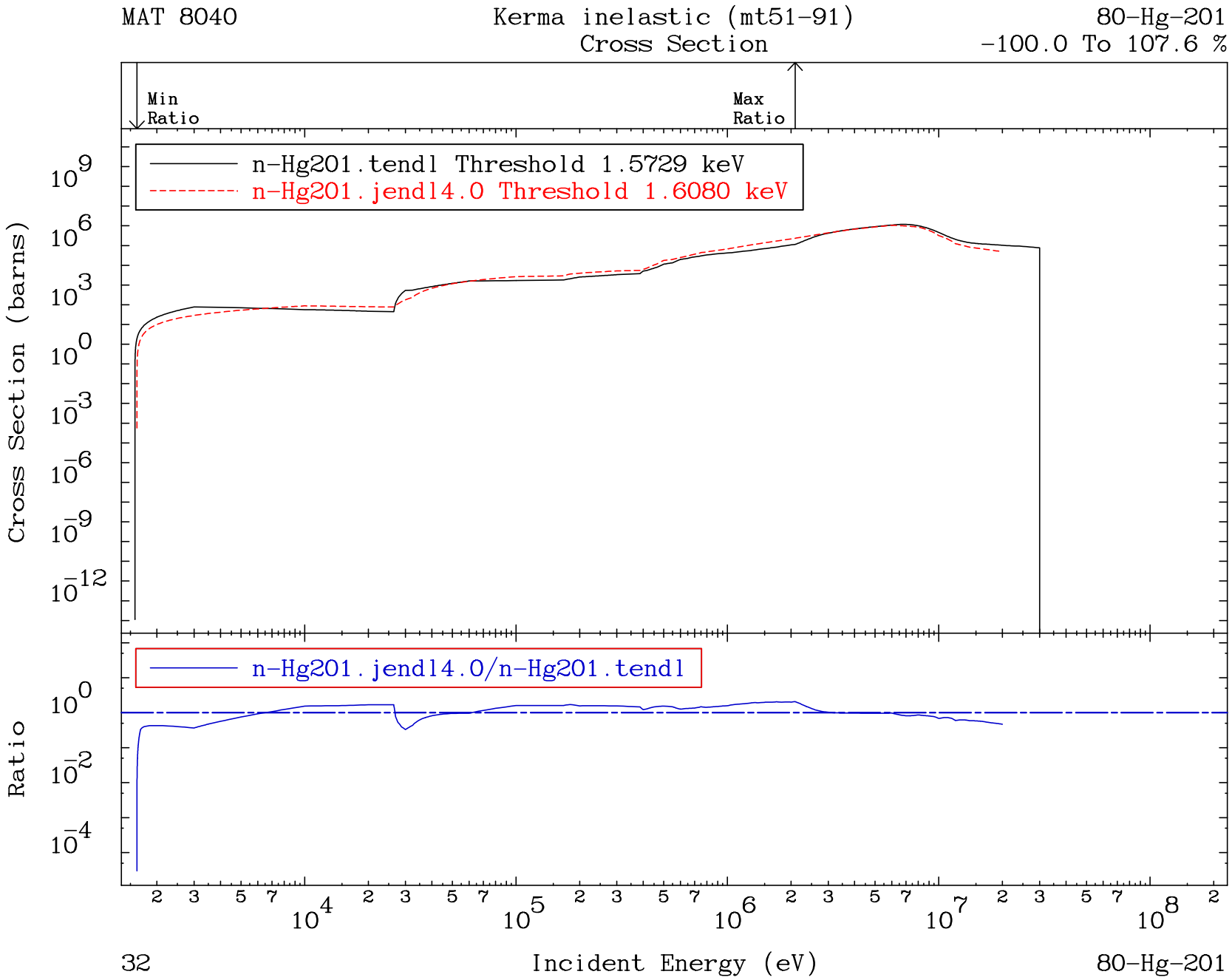

MAT 8040
Deuterium Production
Cross Section
80-Hg-201
53.33 To 9999. %
Max Ratio
Min Ratio
n-Hg201.tendl Threshold 5.5144 MeV
n-Hg201.jendl4.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
300
200
100
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^9
10^6
10^3
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
80-Hg-201

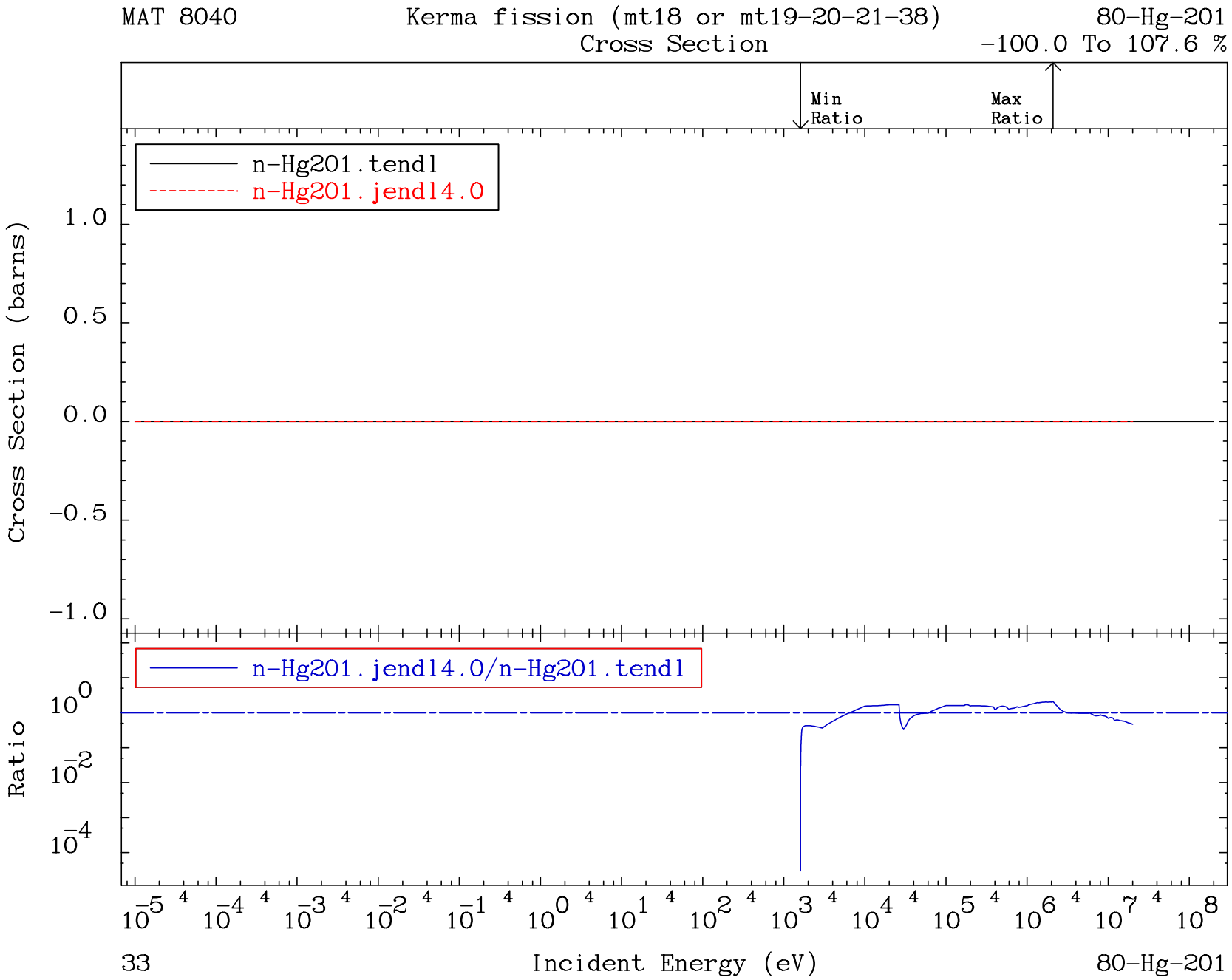

MAT 8040
He-4 Production
Cross Section
80-Hg-201
-68.40 To 9999. %
Min Ratio
Max Ratio
n-Hg201.tendl
n-Hg201.jendl4.0 Threshold 10.000 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^4
10^2
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
28
Incident Energy (eV)
80-Hg-201

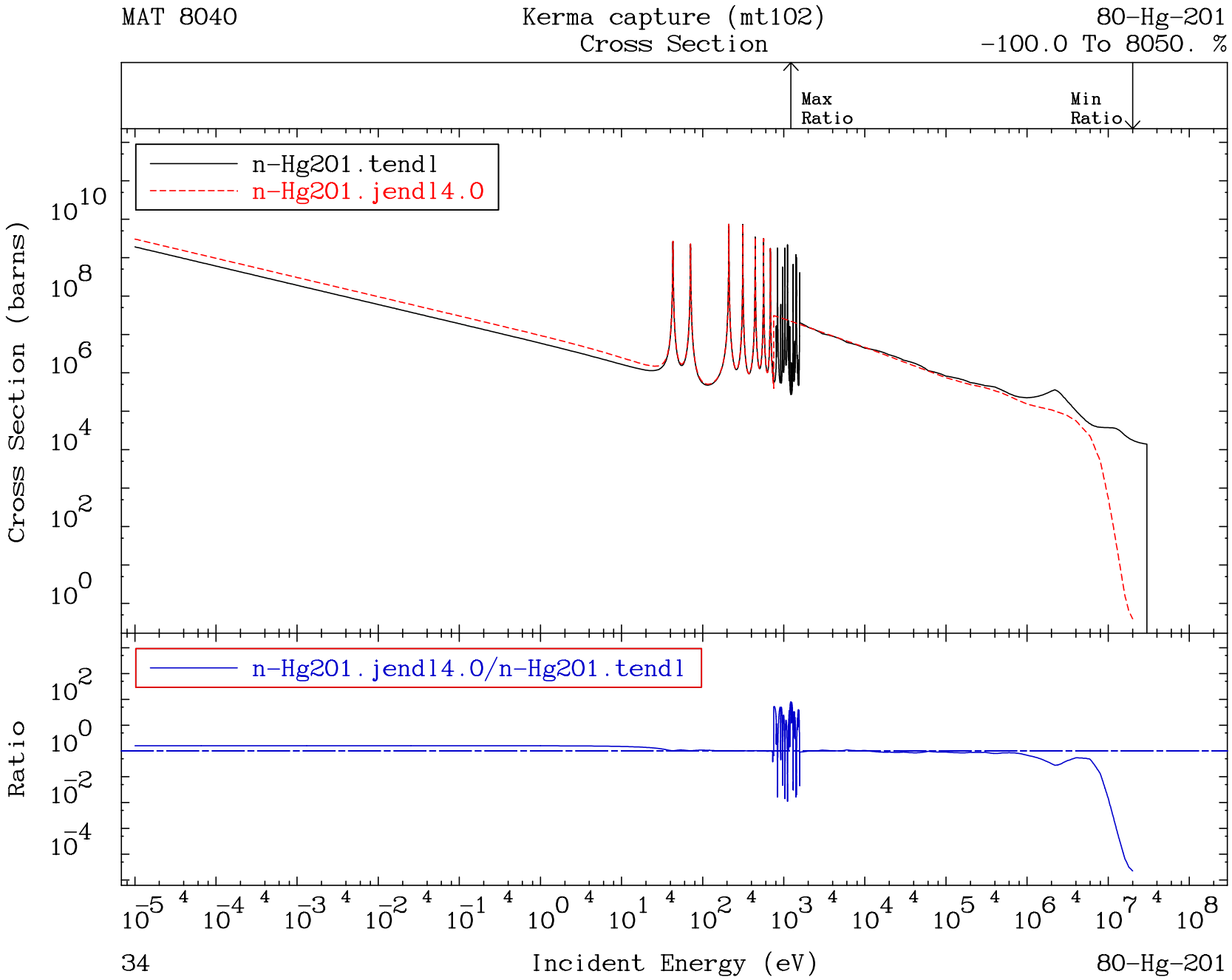

MAT 8040
Kerma total (eV-barns)
Cross Section
80-Hg-201
-98.90 To 8047. %
Min Ratio
Max Ratio
n-Hg201.tendl
n-Hg201.jendl4.0
Cross Section (barns)
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
Incident Energy (eV)
29
80-Hg-201

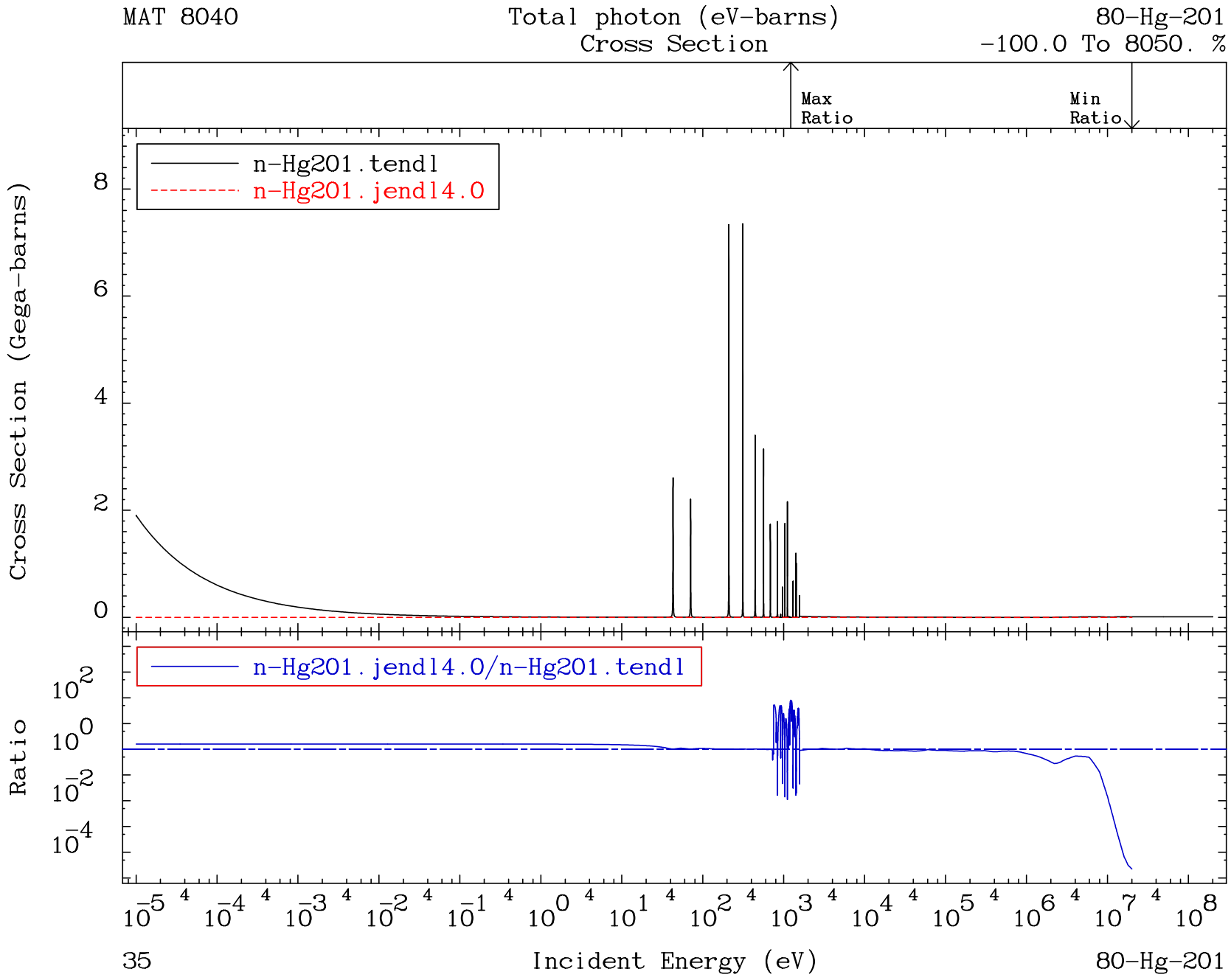

MAT 8040
Kerma elastic
Cross Section
80-Hg-201
-92.10 To 2634. %
Min Ratio
Max Ratio
n-Hg201.tendl
n-Hg201.jendl4.0
Cross Section (barns)
Ratio
n-Hg201.jendl4.0/n-Hg201.tendl
Incident Energy (eV)
30
80-Hg-201

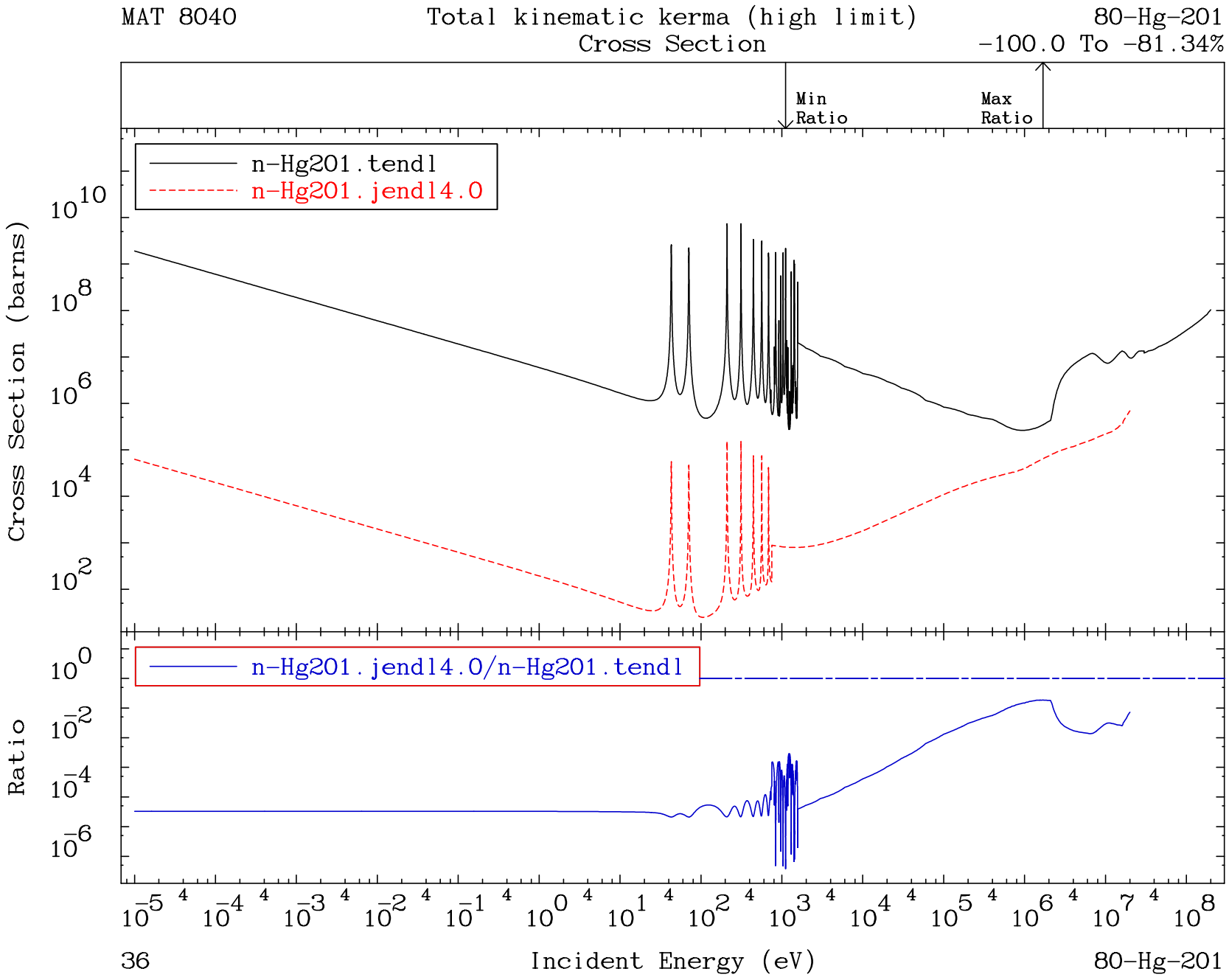

MAT 8040
Kerma non-elastic (all but mt2)
Cross Section
80-Hg-201
-98.90 To 8050. %
Min Ratio
Max Ratio
n-Hg201.tendl
n-Hg201.jendl4.0
Cross Section (barns)
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
Incident Energy (eV)
31
80-Hg-201

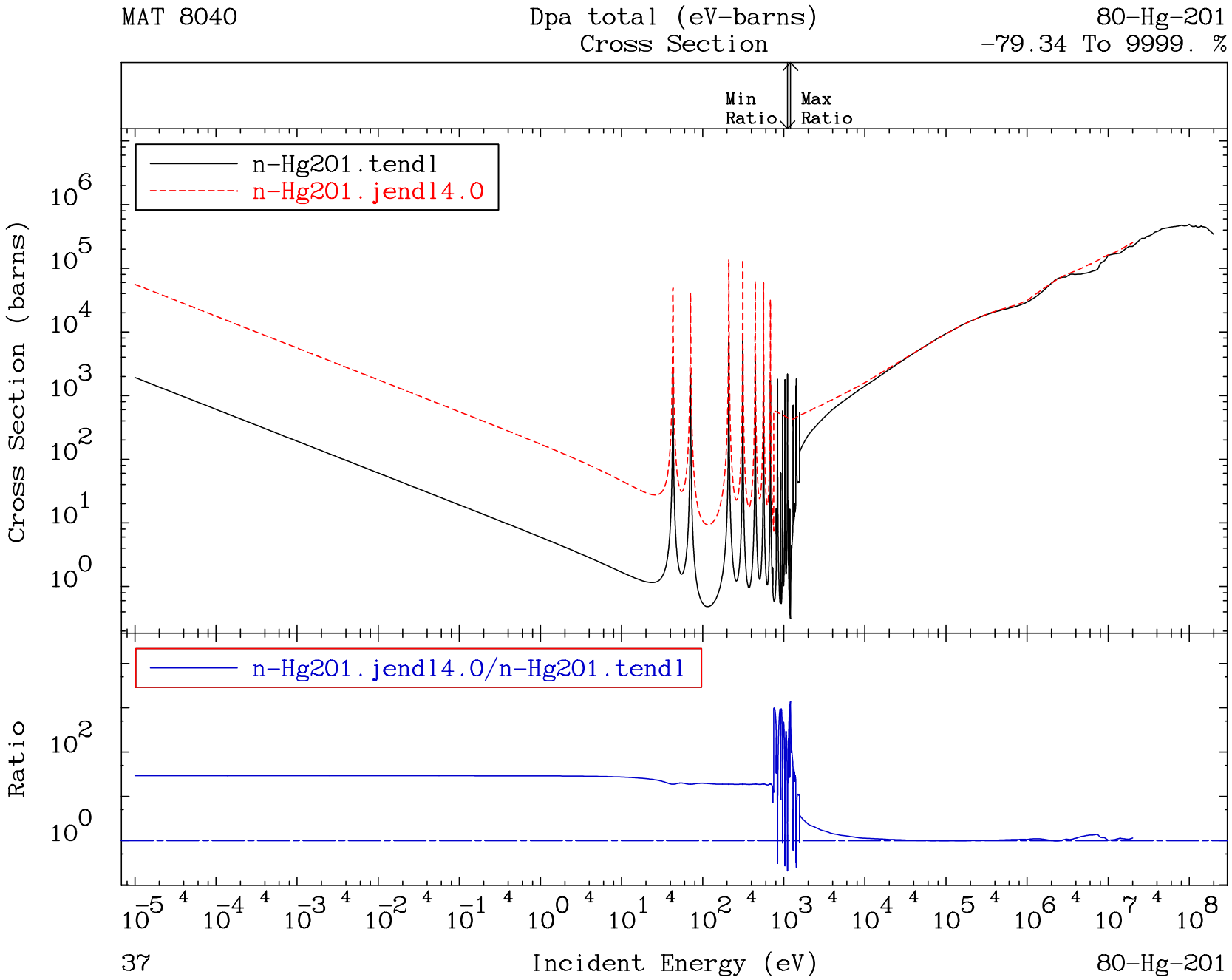

MAT 8040
Kerma inelastic (mt51-91)
Cross Section
80-Hg-201
-100.0 To 107.6 %
Min Ratio
Max Ratio
n-Hg201.tendl Threshold 1.5729 keV
n-Hg201.jendl4.0 Threshold 1.6080 keV
Cross Section (barns)
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
Incident Energy (eV)
32
80-Hg-201

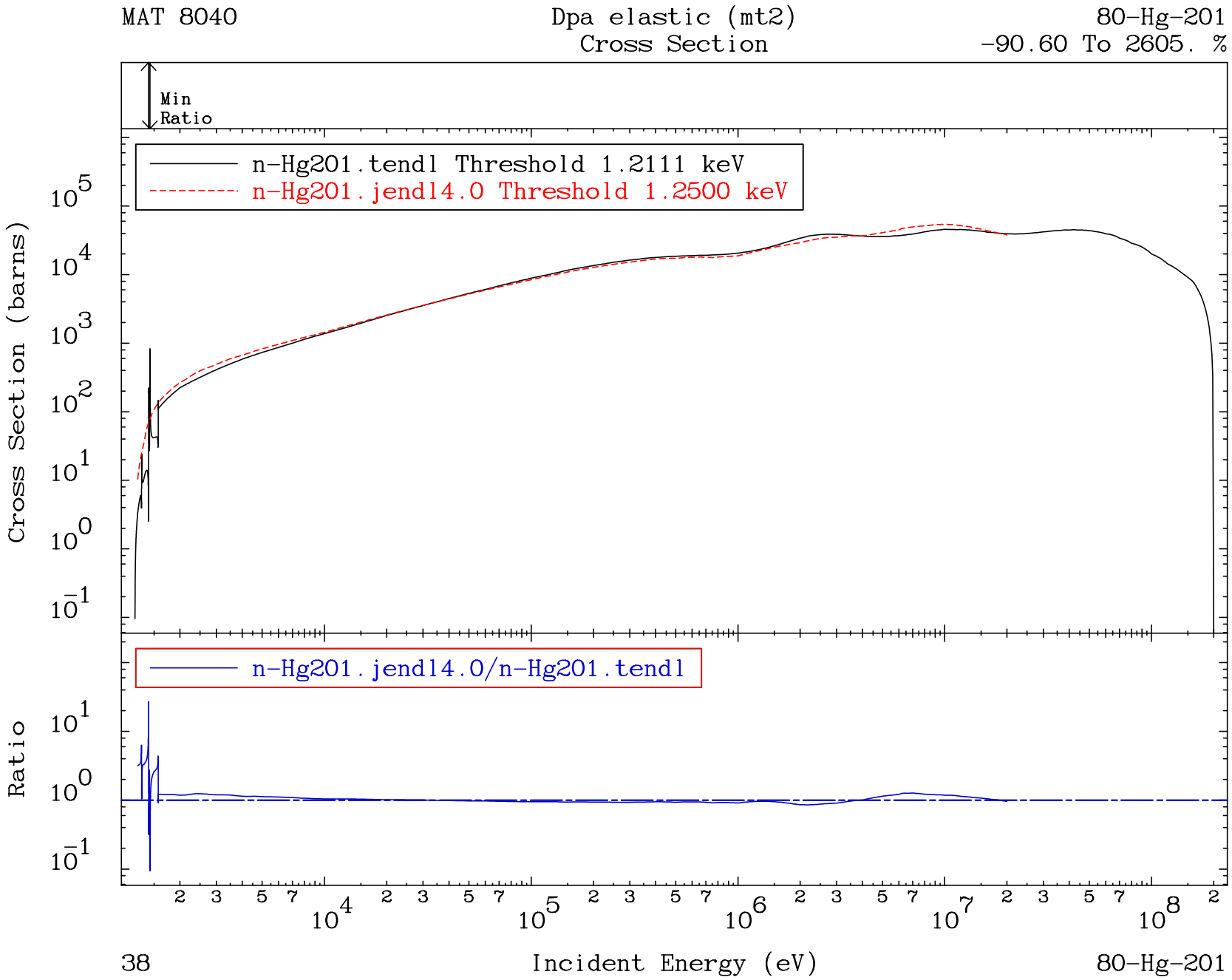

MAT 8040
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
80-Hg-201
-100.0 To 107.6 %
Min Ratio
Max Ratio
n-Hg201.tendl
n-Hg201.jendl4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^0
10^-2
10^-4
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
33
Incident Energy (eV)
80-Hg-201

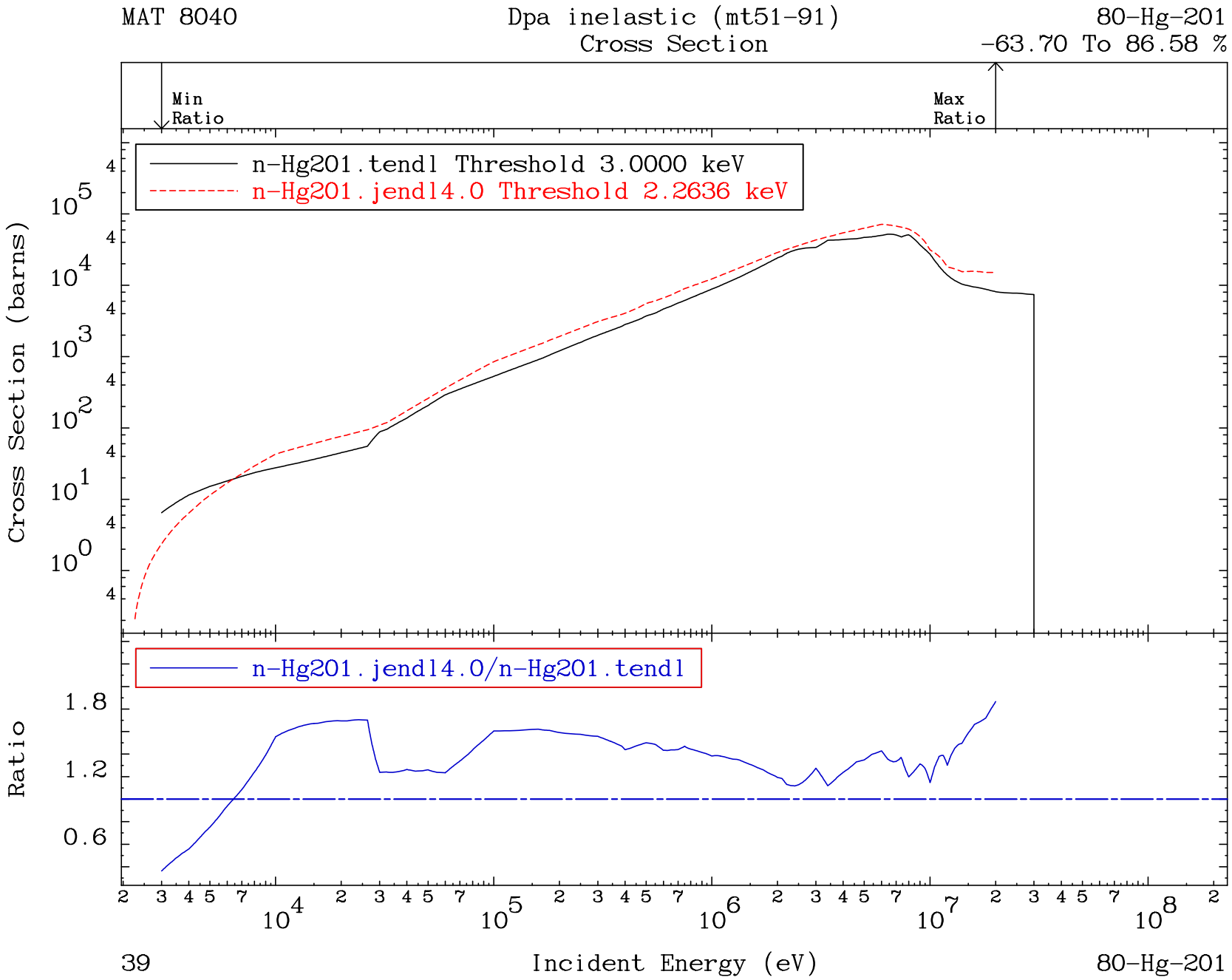

MAT 8040
Kerma capture (mt102)
Cross Section
80-Hg-201
-100.0 To 8050. %
Max Ratio
Min Ratio
n-Hg201.tendl
n-Hg201.jendl4.0
Cross Section (barns)
Ratio
n-Hg201.jendl4.0/n-Hg201.tendl
Incident Energy (eV)
34
80-Hg-201

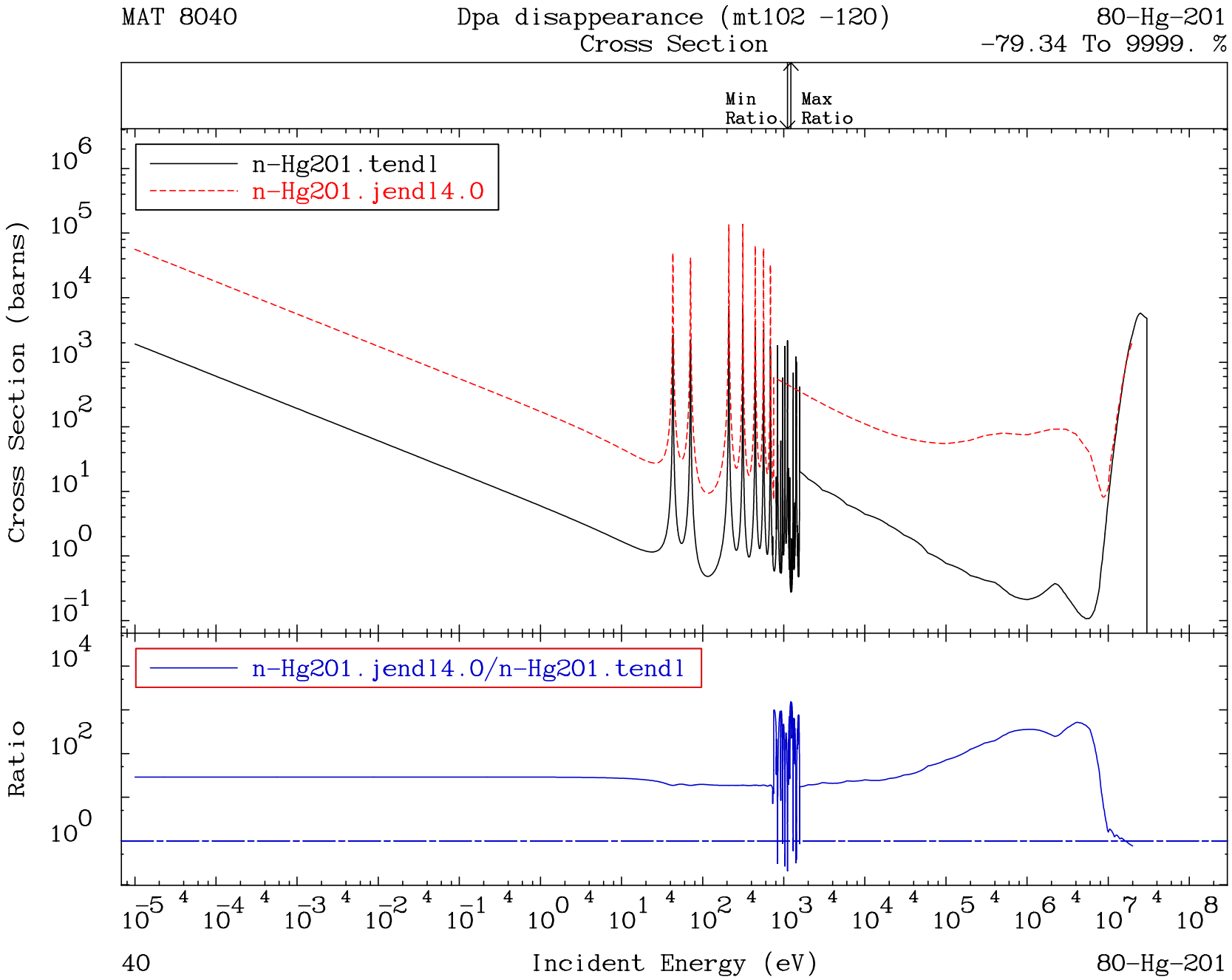

MAT 8040
Total photon (eV-barns)
Cross Section
80-Hg-201
-100.0 To 8050. %
Max Ratio
Min Ratio
n-Hg201.tendl
n-Hg201.jendl4.0
Cross Section (Giga-barns)
0
2
4
6
8
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
35
Incident Energy (eV)
80-Hg-201


MAT 8040
Total kinematic kerma (high limit)
Cross Section
80-Hg-201
-100.0 To -81.34%
Min Ratio
Max Ratio
n-Hg201.tendl
n-Hg201.jendl4.0
Cross Section (barns)
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
Incident Energy (eV)
36
80-Hg-201


MAT 8040
Dpa total (eV-barns)
Cross Section
80-Hg-201
-79.34 To 9999. %
Min Ratio
Max Ratio
n-Hg201.tendl
n-Hg201.jendl4.0
Cross Section (barns)
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
Incident Energy (eV)
37
80-Hg-201


MAT 8040
Dpa elastic (mt2)
Cross Section
80-Hg-201
-90.60 To 2605. %
Min
Ratio
n-Hg201.tendl Threshold 1.2111 keV
n-Hg201.jendl4.0 Threshold 1.2500 keV
Cross Section (barns)
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
Incident Energy (eV)
38
80-Hg-201


MAT 8040
Dpa inelastic (mt51-91)
Cross Section
80-Hg-201
-63.70 To 86.58 %
Min Ratio
Max Ratio
n-Hg201.tendl Threshold 3.0000 keV
n-Hg201.jendl4.0 Threshold 2.2636 keV
Cross Section (barns)
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
Incident Energy (eV)
39
80-Hg-201


MAT 8040
Dpa disappearance (mt102 -120)
Cross Section
80-Hg-201
-79.34 To 9999. %
Min Ratio
Max Ratio
n-Hg201.tendl
n-Hg201.jendl4.0
Cross Section (barns)
n-Hg201.jendl4.0/n-Hg201.tendl
Ratio
Incident Energy (eV)
40
80-Hg-201