Program Complot
(Version 2018-1)
by
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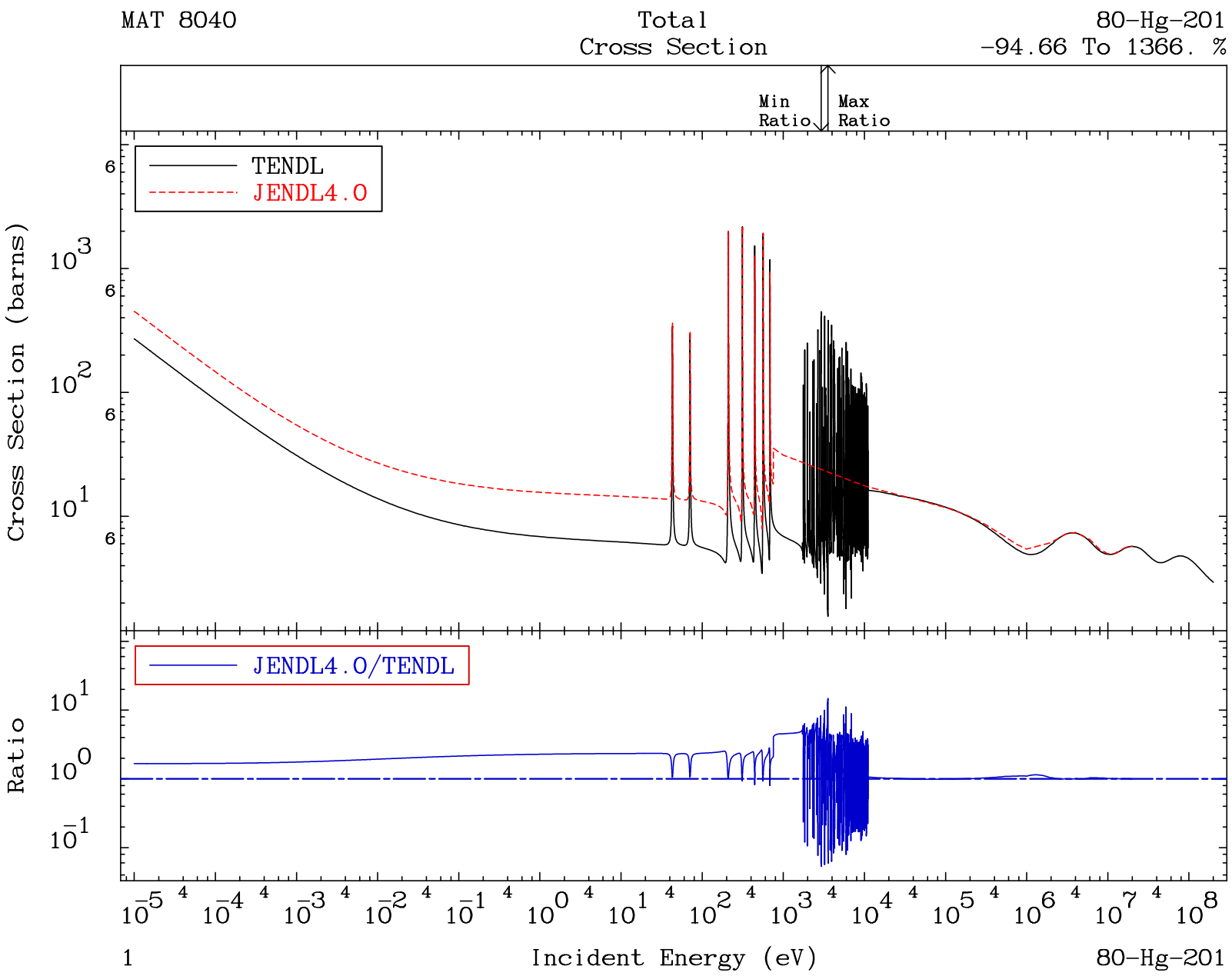
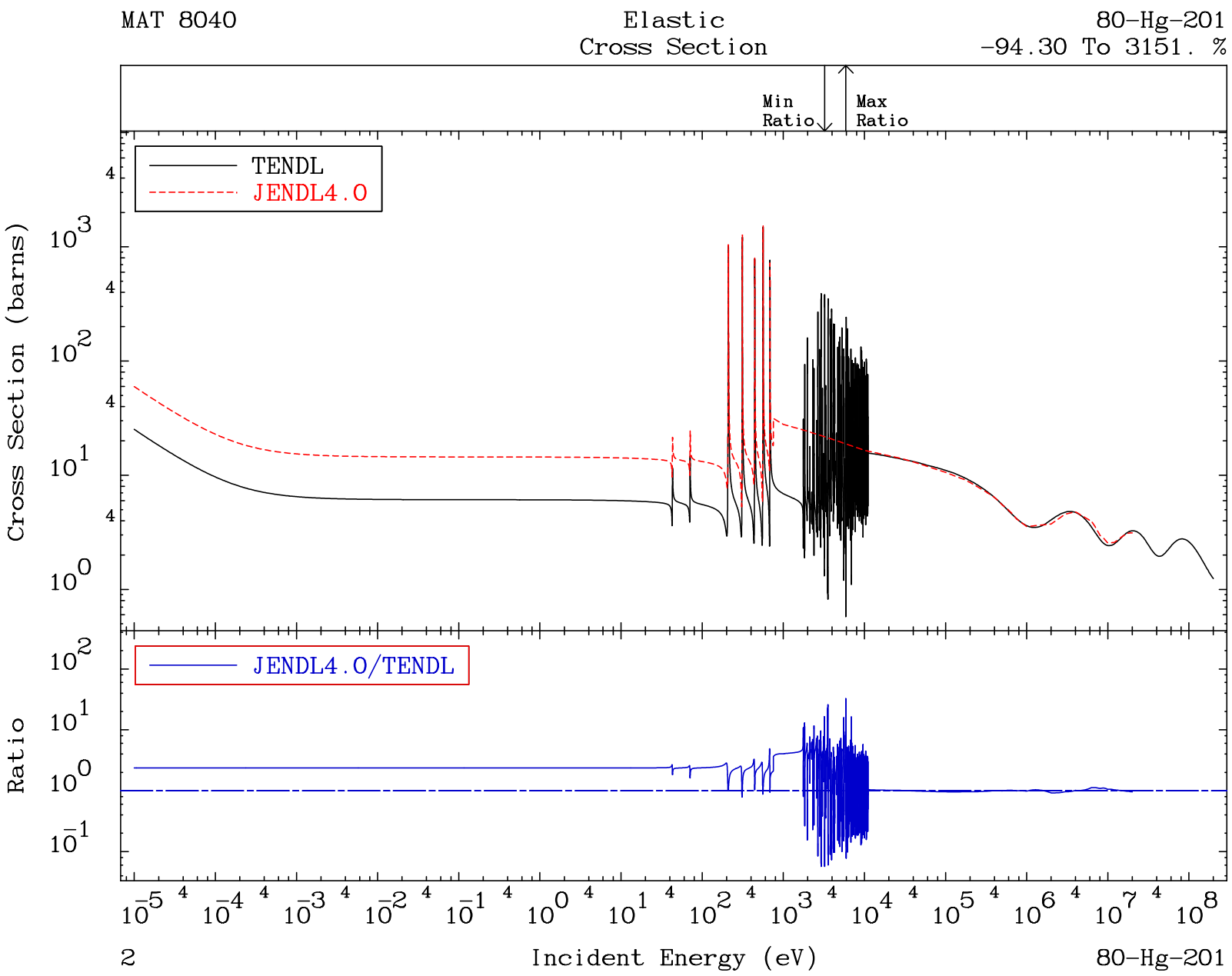
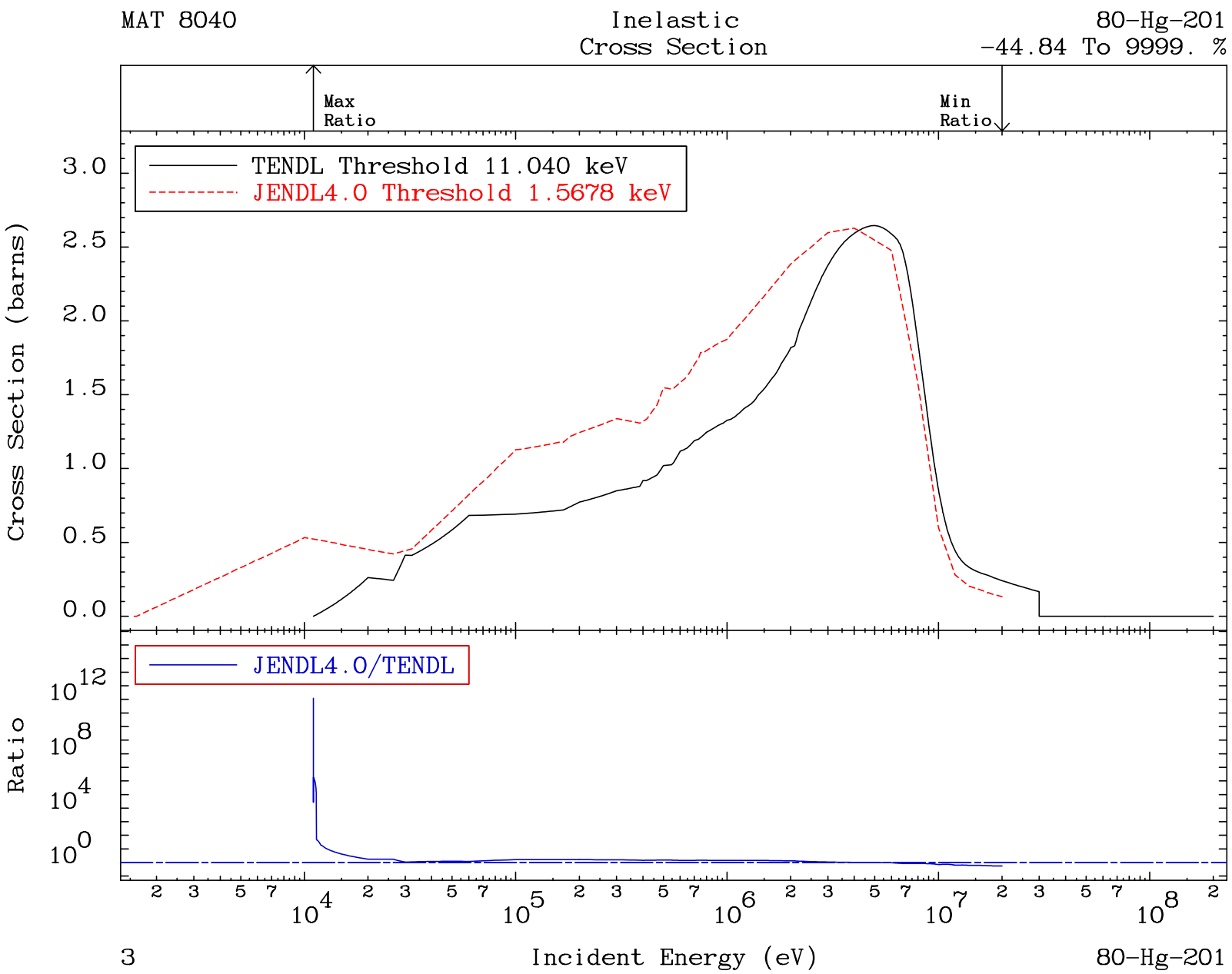
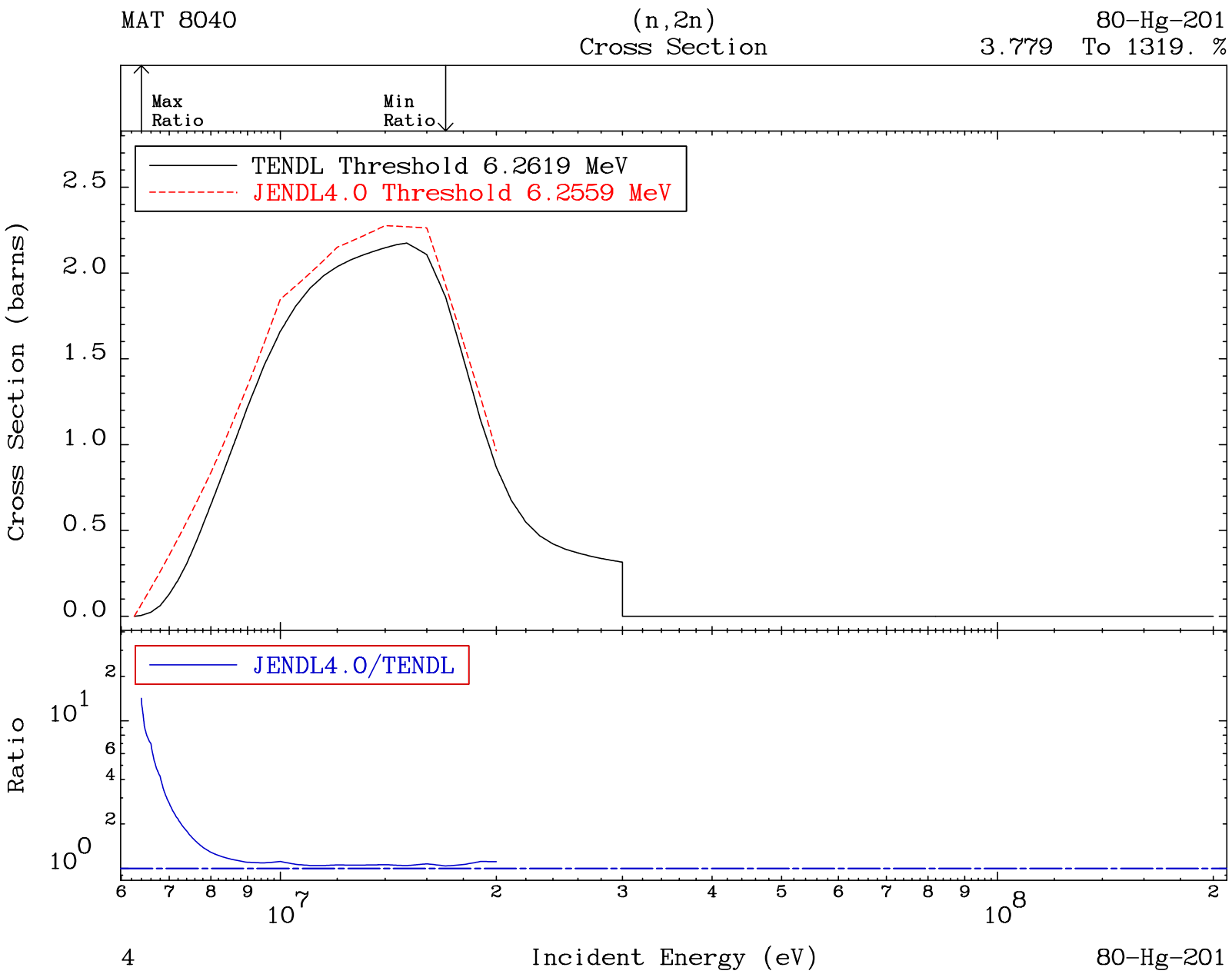
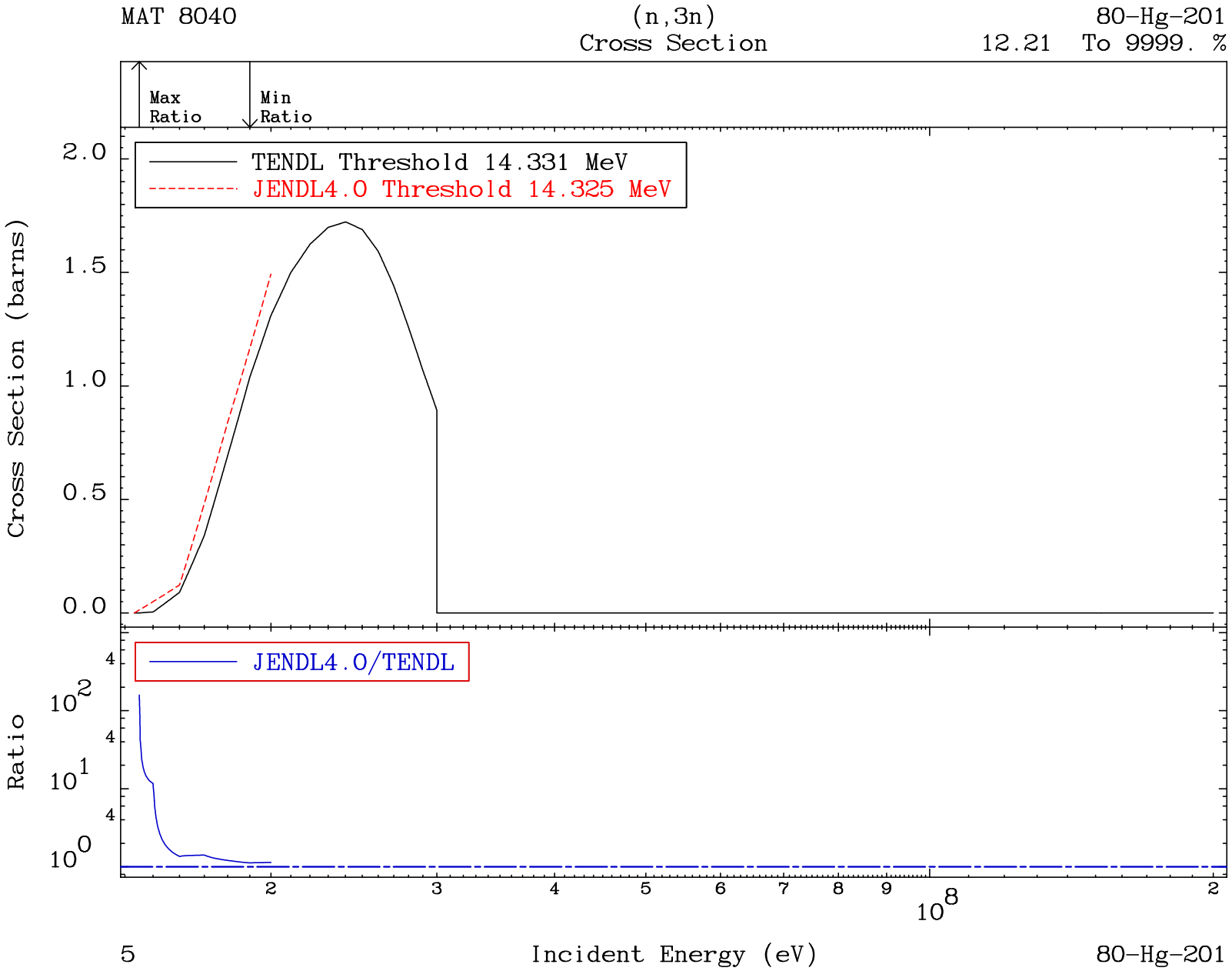
Press Mouse Button to Start

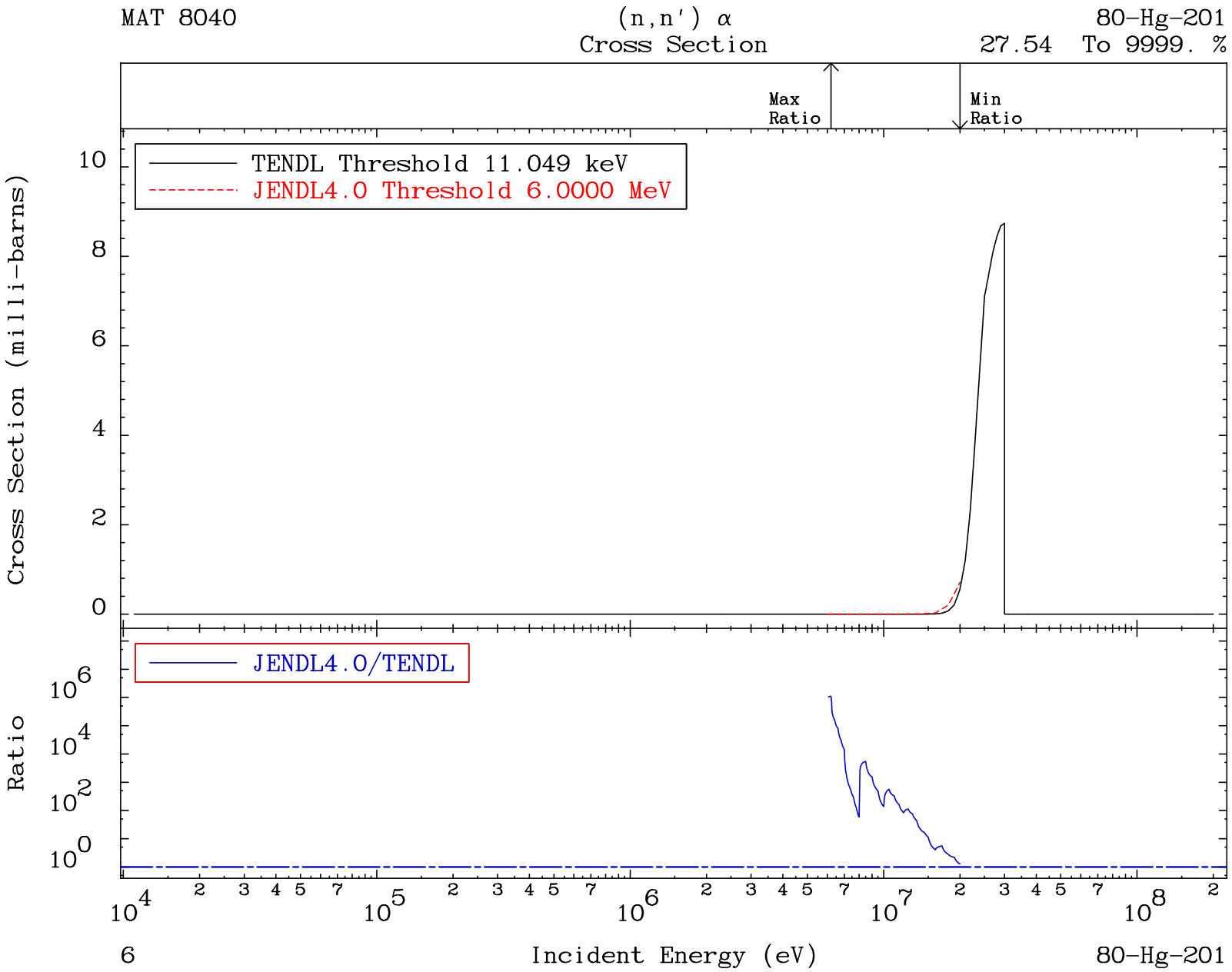

MAT 8040
Total
Cross Section
80-Hg-201
-94.66 To 1366. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
80-Hg-201

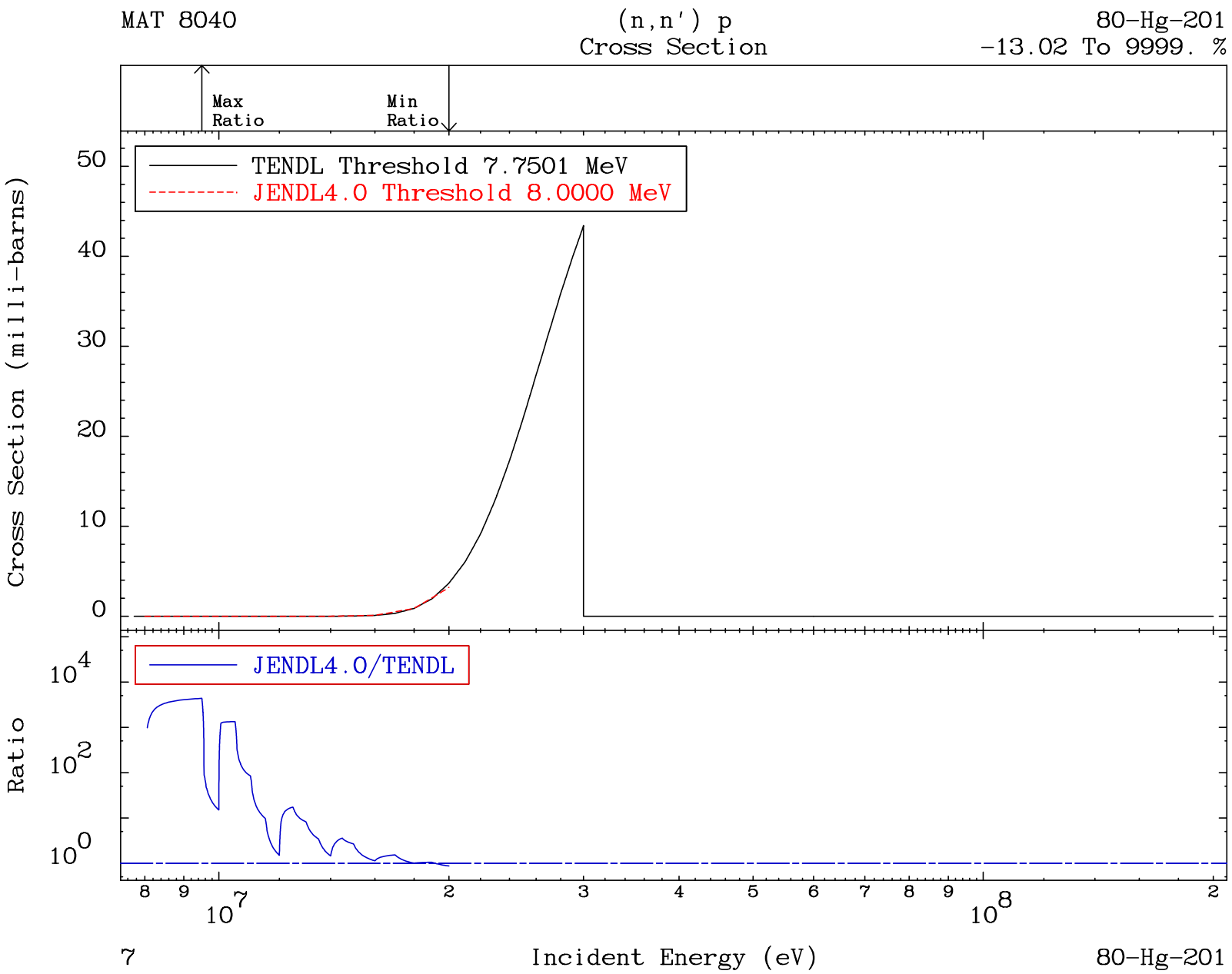

MAT 8040
Elastic
Cross Section
80-Hg-201
-94.30 To 3151. %
Min
Ratio
Max
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
80-Hg-201

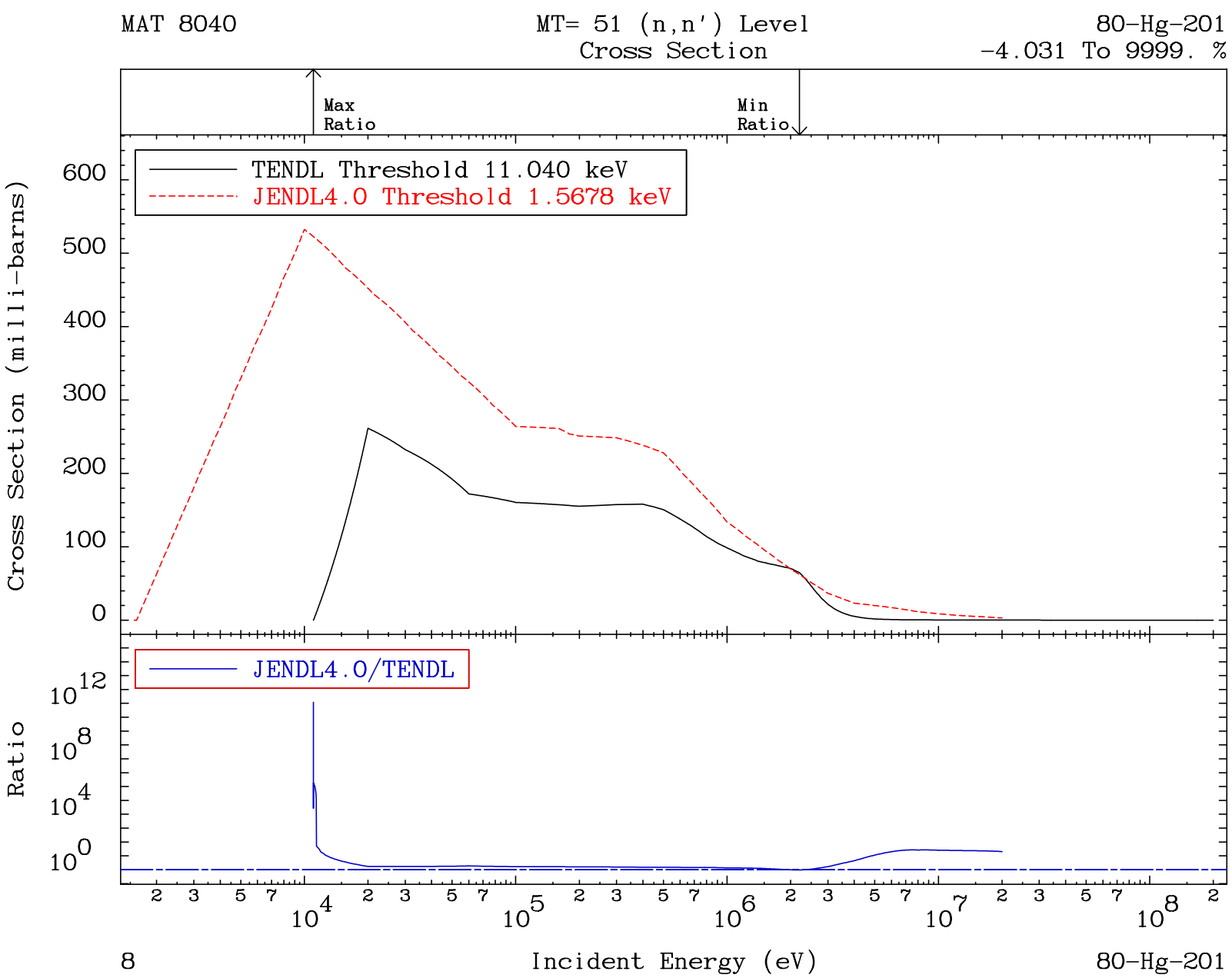

MAT 8040
Inelastic
Cross Section
80-Hg-201
-44.84 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 11.040 keV
JENDL4.0 Threshold 1.5678 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^{12}
10^{8}
10^{4}
10^{0}
2 3 5 7 10^{4} 2 3 5 7 10^{5} 2 3 5 7 10^{6} 2 3 5 7 10^{7} 2 3 5 7 10^{8} 2
3
Incident Energy (eV)
80-Hg-201

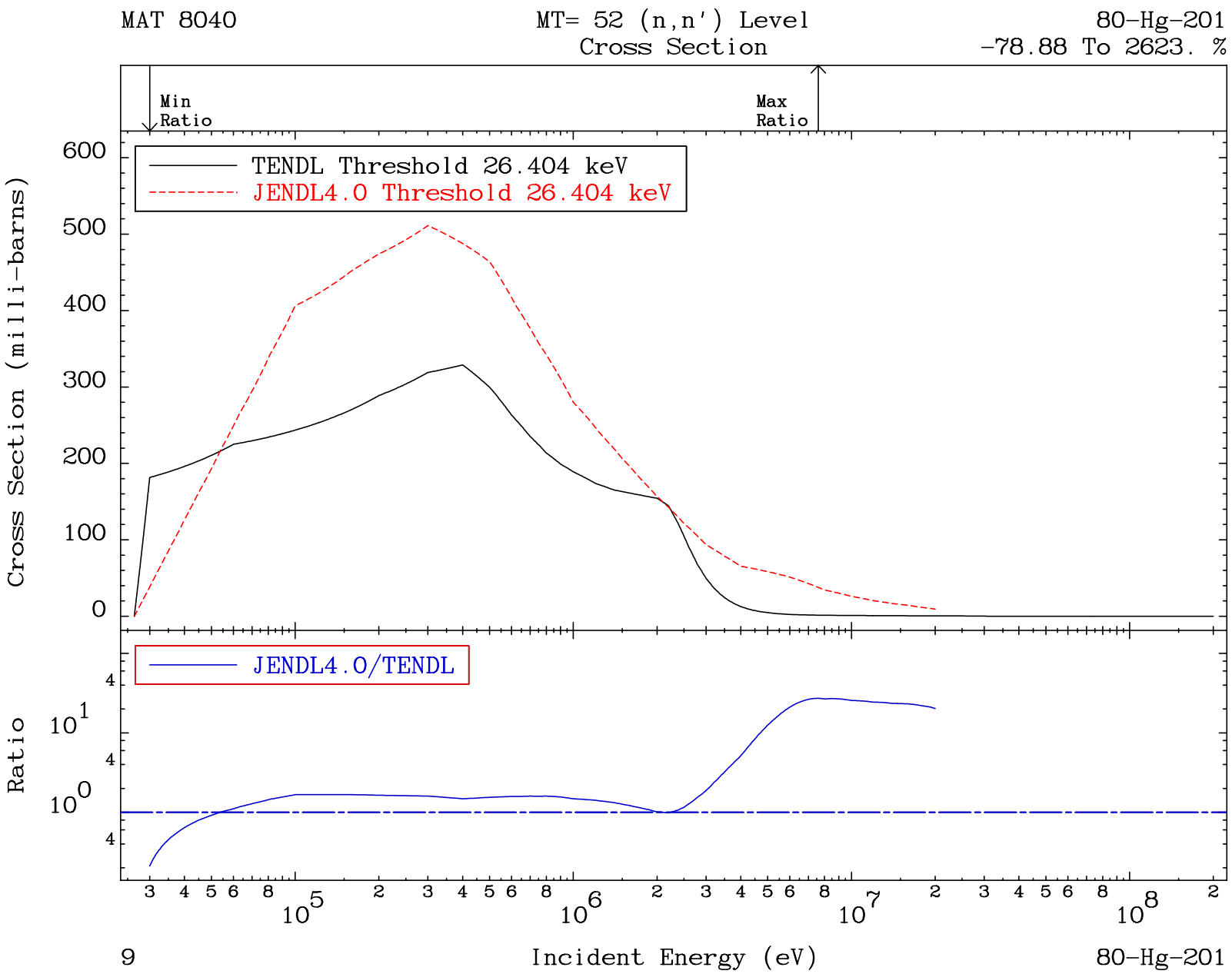

MAT 8040
(n,2n)
Cross Section
80-Hg-201
3.779 To 1319. %
Max Ratio
Min Ratio
TENDL Threshold 6.2619 MeV
JENDL4.0 Threshold 6.2559 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^1
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
80-Hg-201

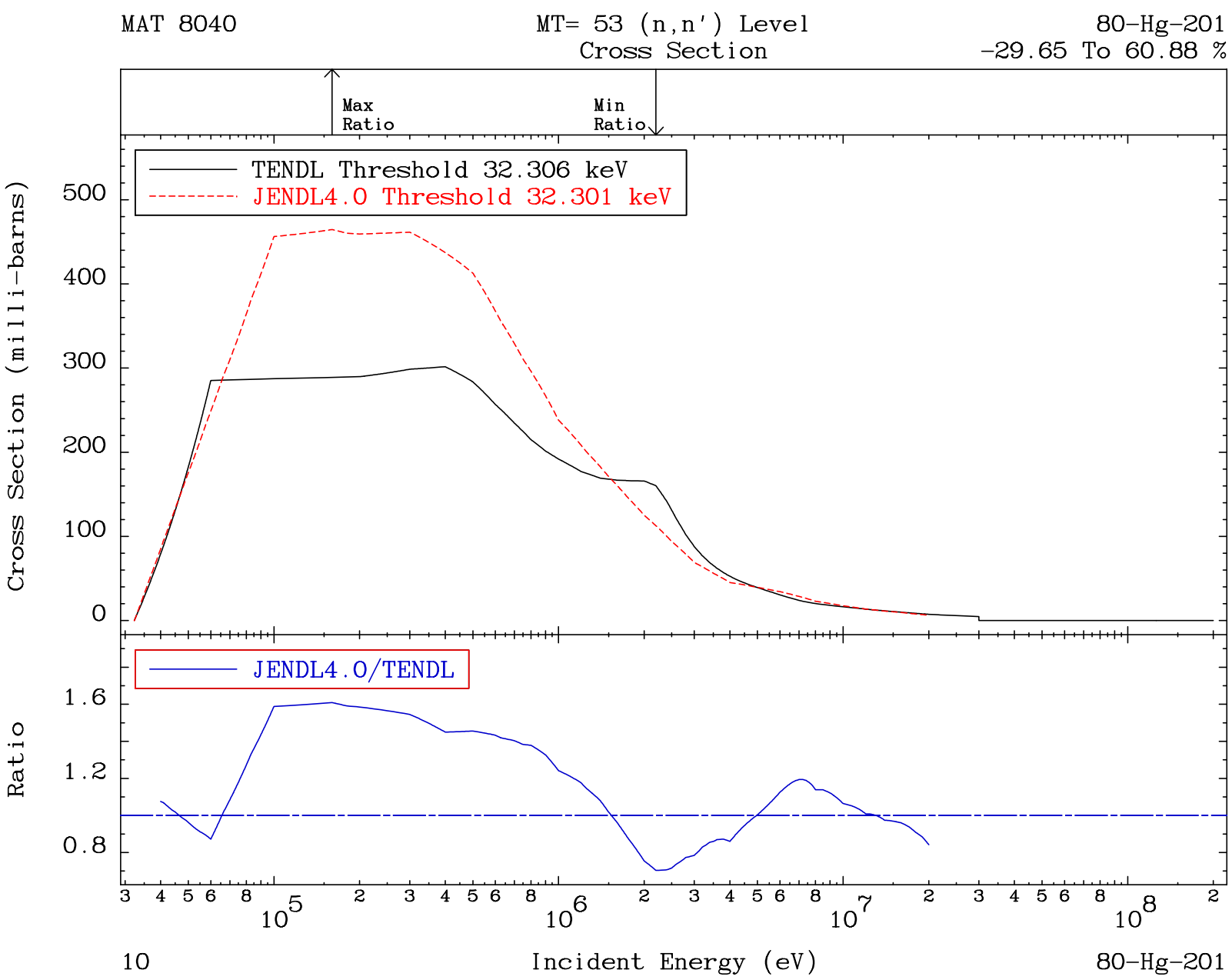

MAT 8040
(n,3n)
Cross Section
80-Hg-201
12.21 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 14.331 MeV
JENDL4.0 Threshold 14.325 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
80-Hg-201

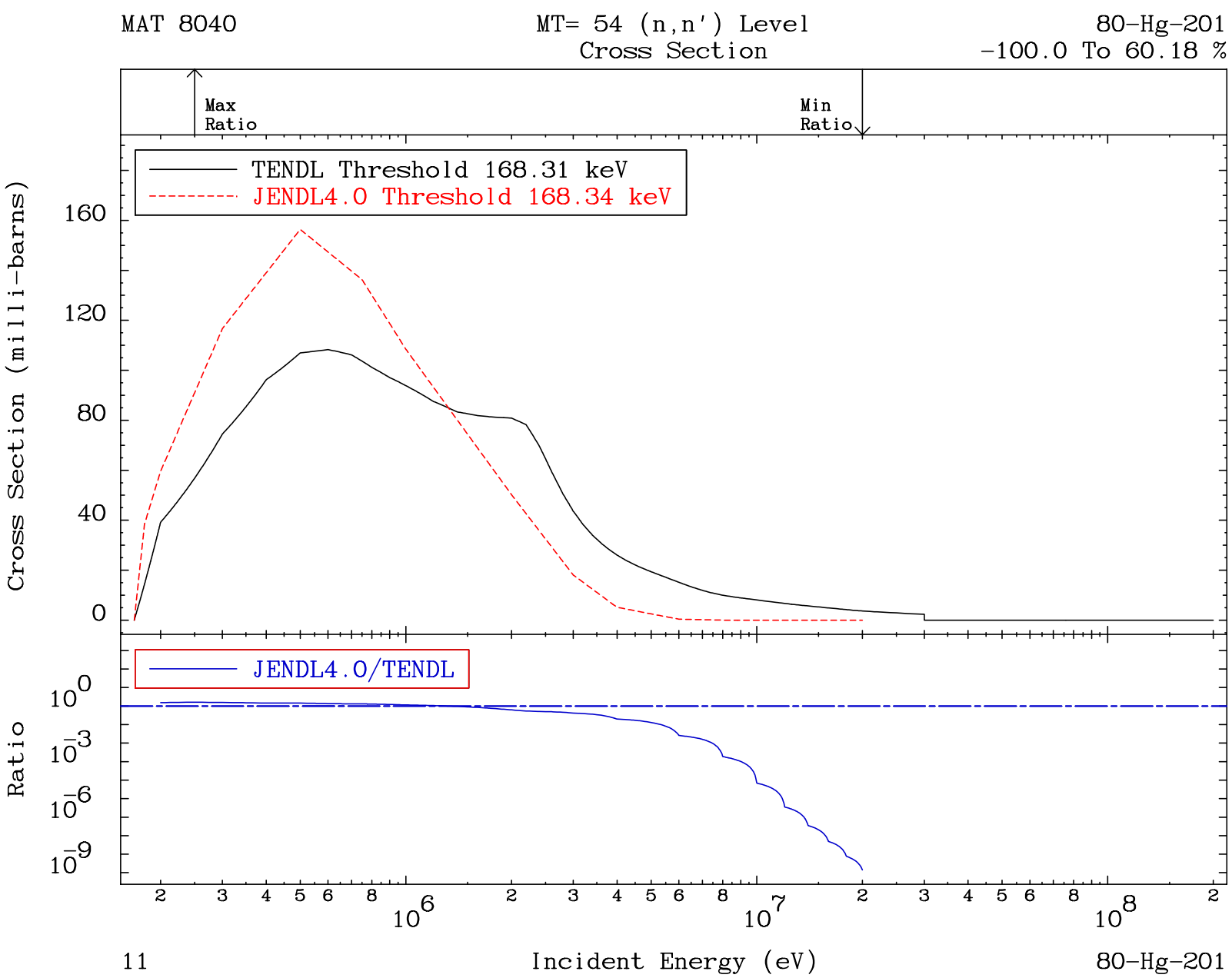

MAT 8040
(n,n') α
Cross Section
80-Hg-201
27.54 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.049 keV
JENDL4.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
6
80-Hg-201

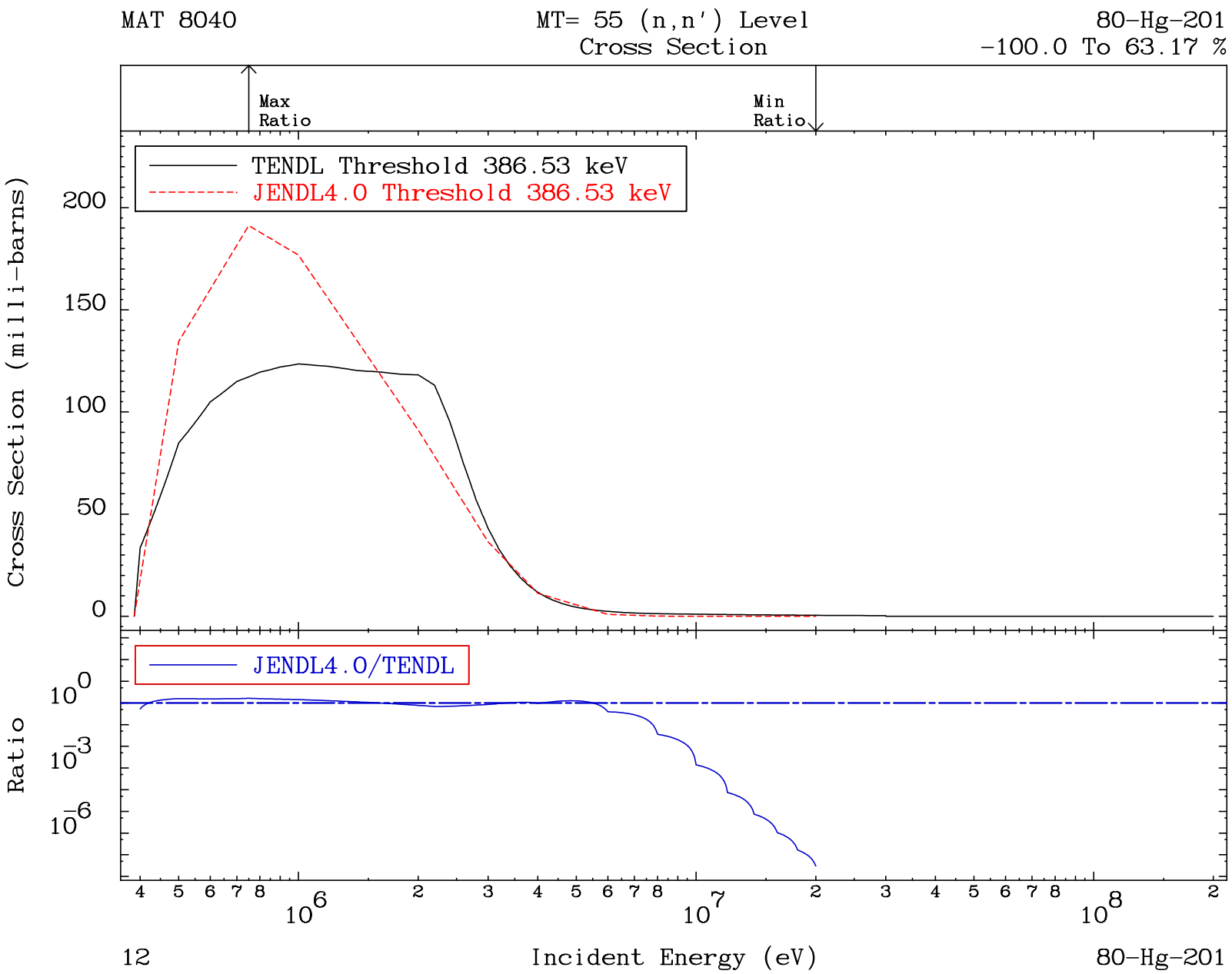

MAT 8040
(n,n') p
Cross Section
80-Hg-201
-13.02 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.7501 MeV
JENDL4.0 Threshold 8.0000 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
80-Hg-201

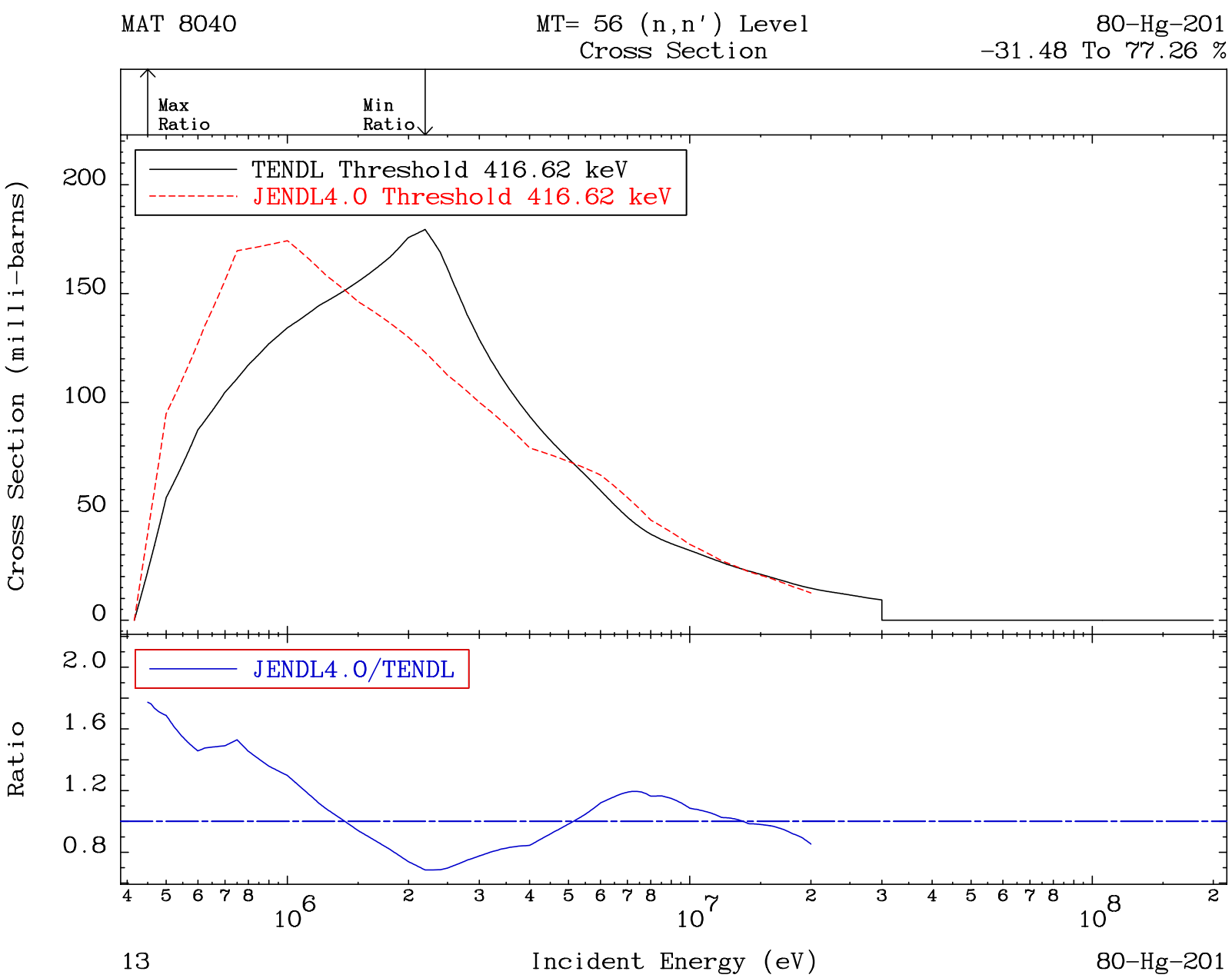

MAT 8040
MT= 51 (n,n') Level
Cross Section
80-Hg-201
-4.031 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 11.040 keV
JENDL4.0 Threshold 1.5678 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^12
10^8
10^4
10^0
2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
8
Incident Energy (eV)
80-Hg-201

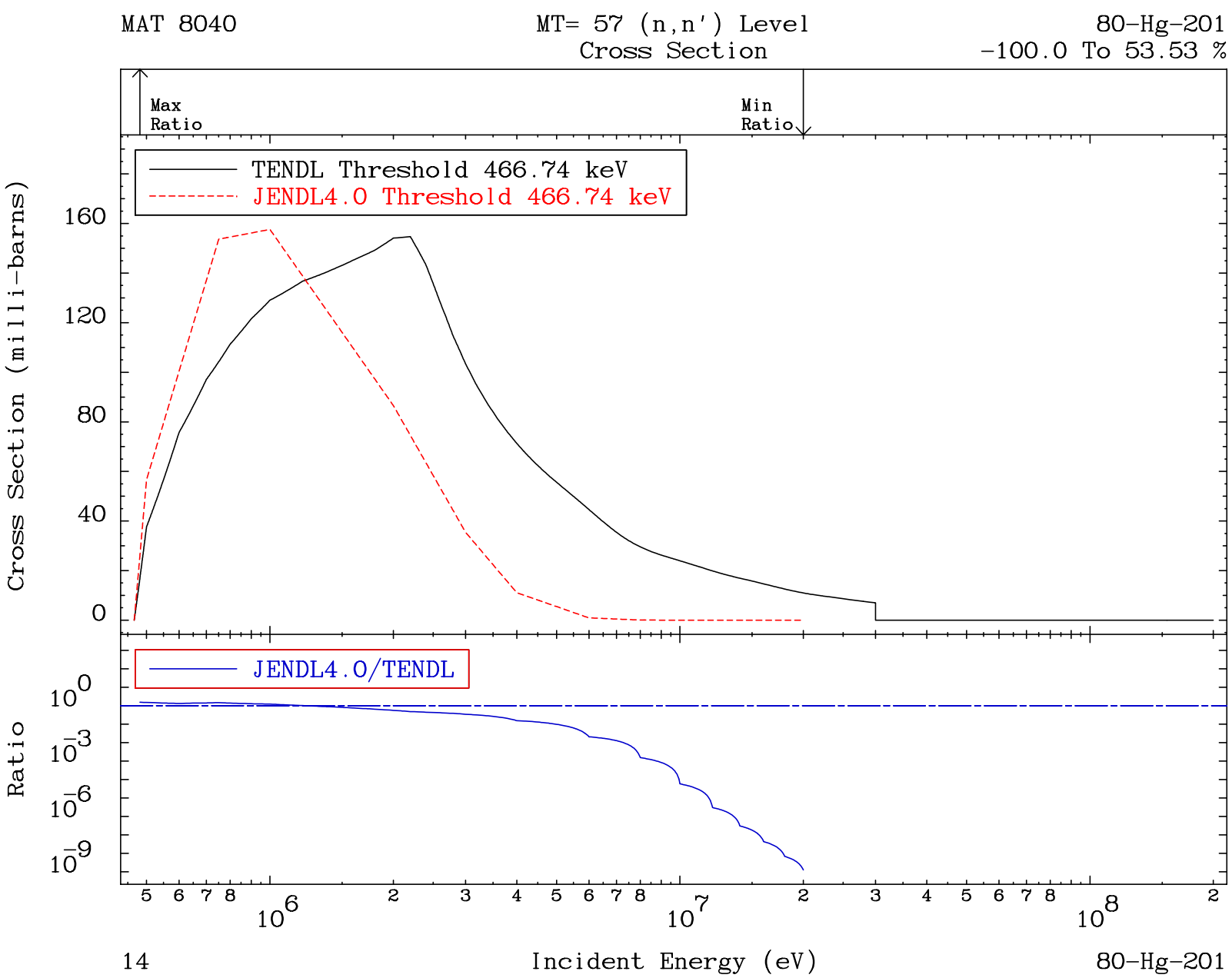

MAT 8040
MT= 52 (n,n') Level
Cross Section
80-Hg-201
-78.88 To 2623. %
Min
Ratio
Max
Ratio
TENDL Threshold 26.404 keV
JENDL4.0 Threshold 26.404 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^1
10^0
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
9
Incident Energy (eV)
80-Hg-201

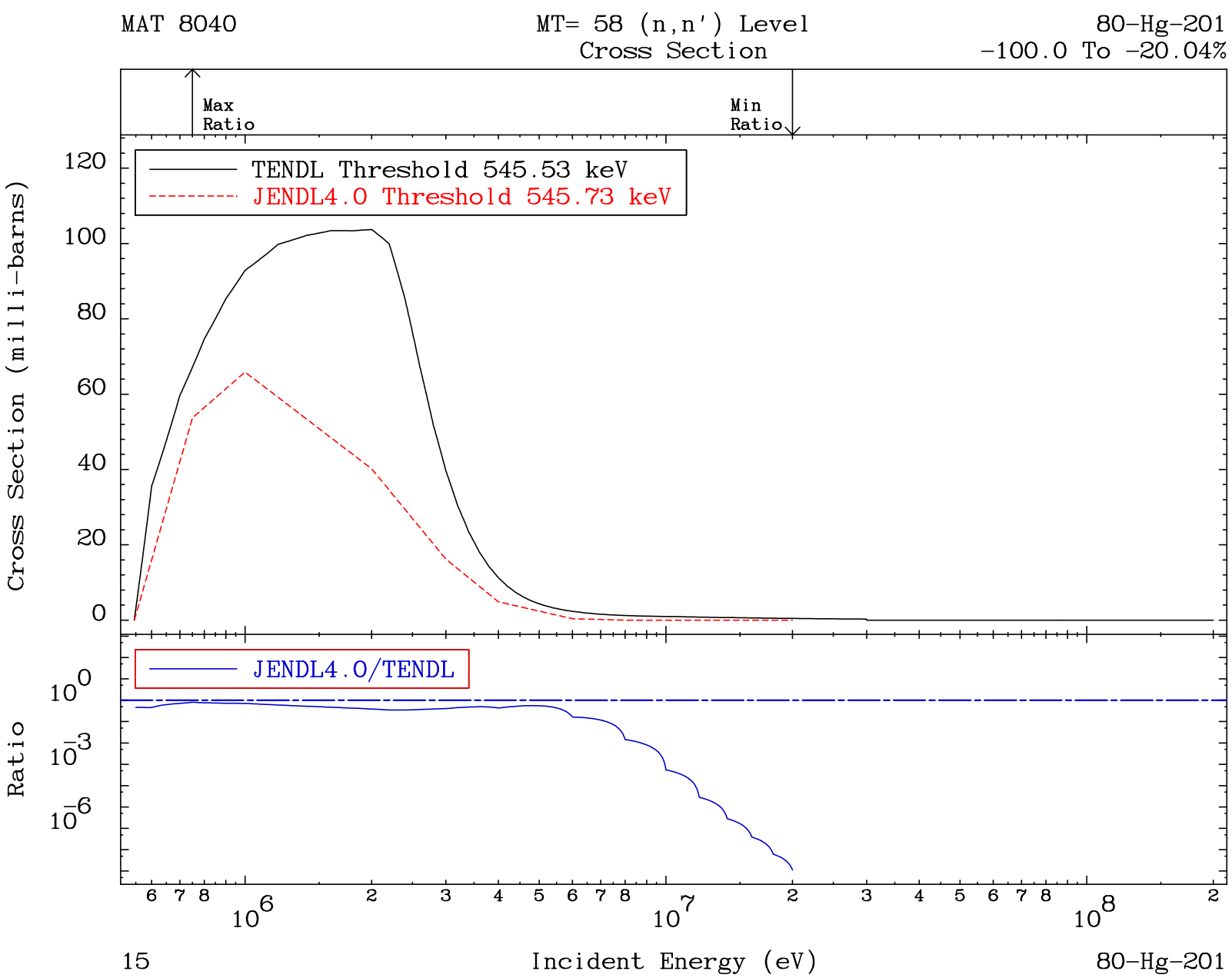

MAT 8040
MT= 53 (n,n') Level
Cross Section
80-Hg-201
-29.65 To 60.88 %
Max
Ratio
Min
Ratio
TENDL Threshold 32.306 keV
JENDL4.0 Threshold 32.301 keV
Cross Section (milli-barns)
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
80-Hg-201

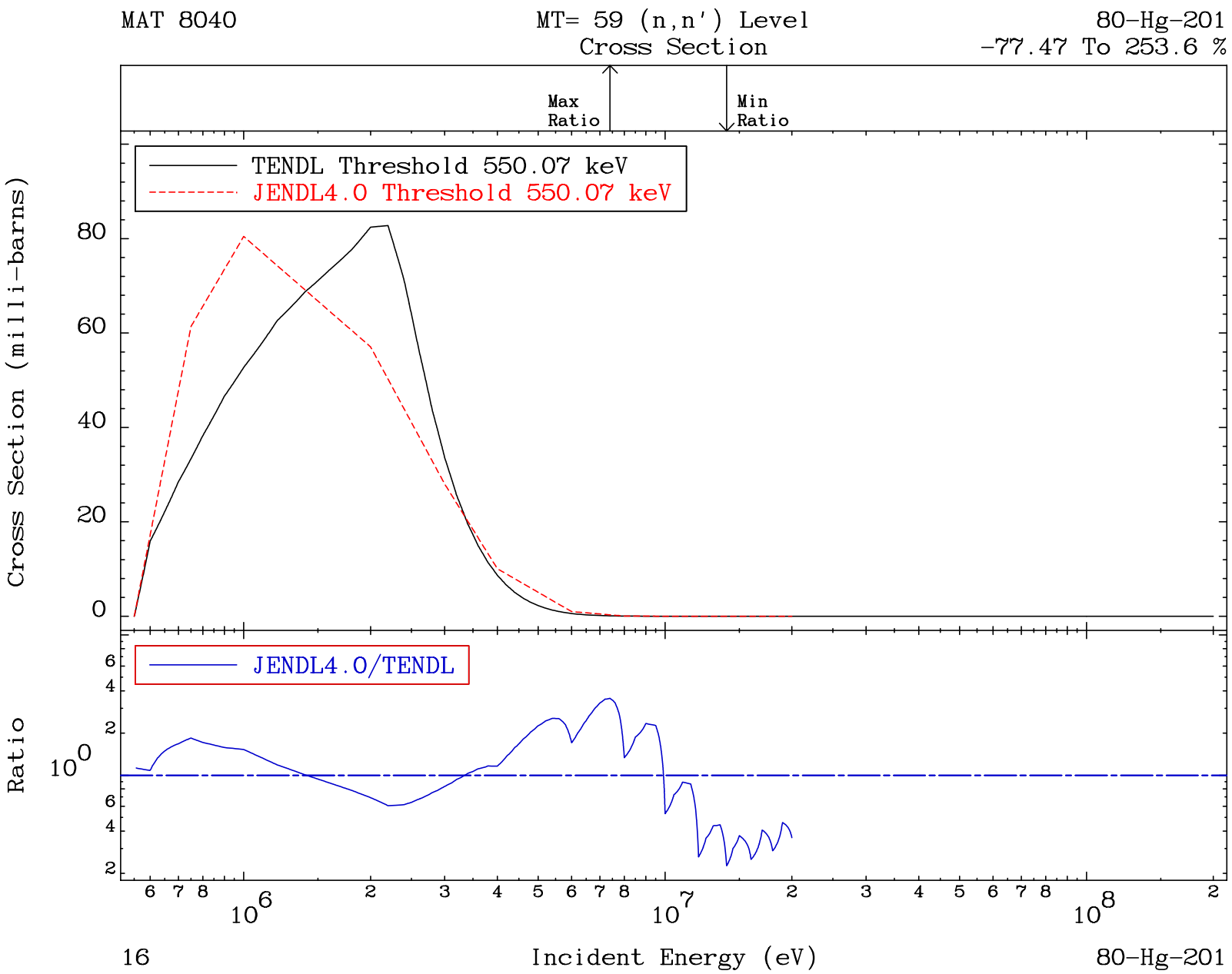

MAT 8040
MT= 54 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 60.18 %
Max
Ratio
Min
Ratio
TENDL Threshold 168.31 keV
JENDL4.0 Threshold 168.34 keV
Cross Section (milli-barns)
160
120
80
40
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
10^-9
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
80-Hg-201

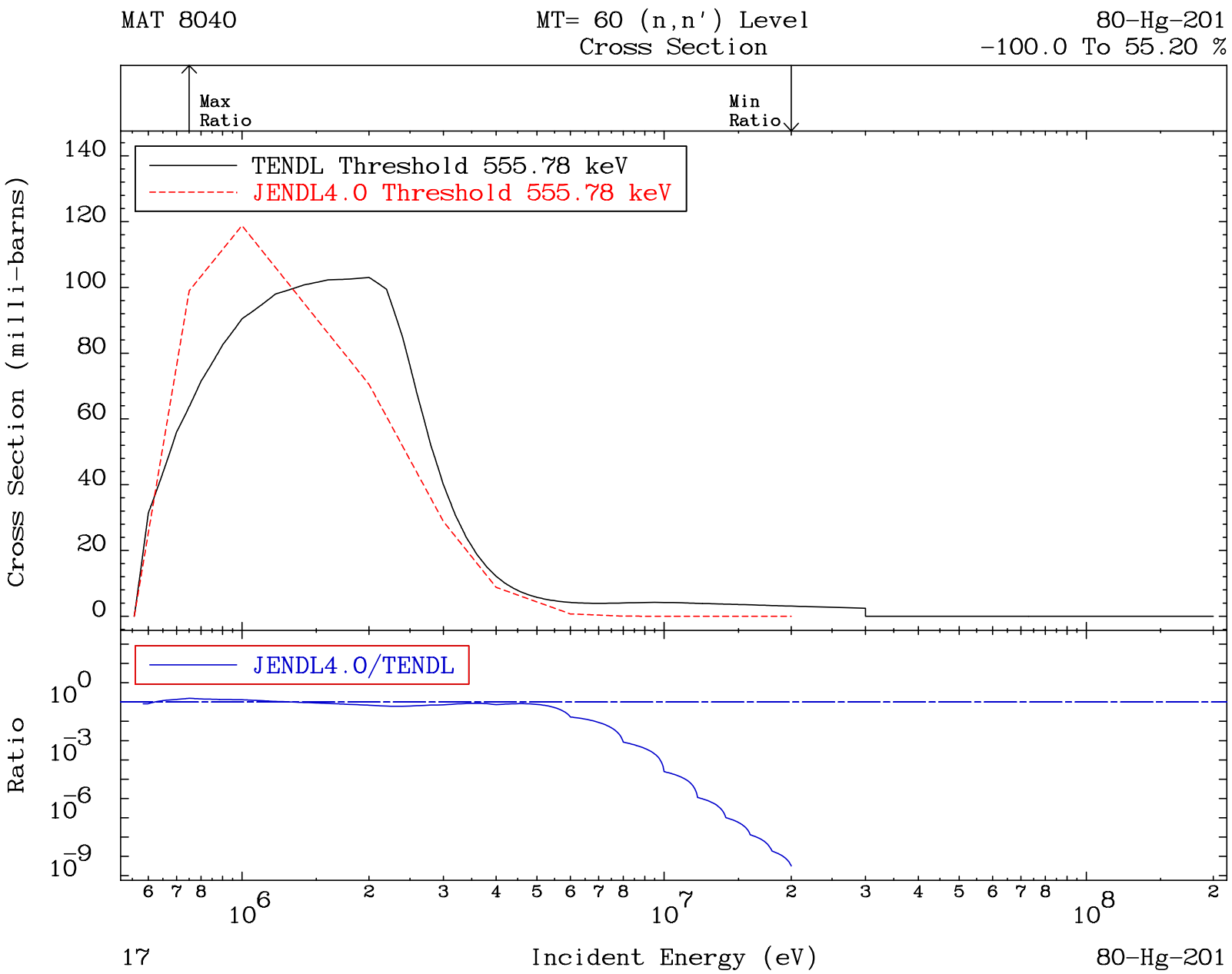

MAT 8040
MT= 55 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 63.17 %
Max
Ratio
Min
Ratio
TENDL Threshold 386.53 keV
JENDL4.0 Threshold 386.53 keV
Cross Section (milli-barns)
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
80-Hg-201

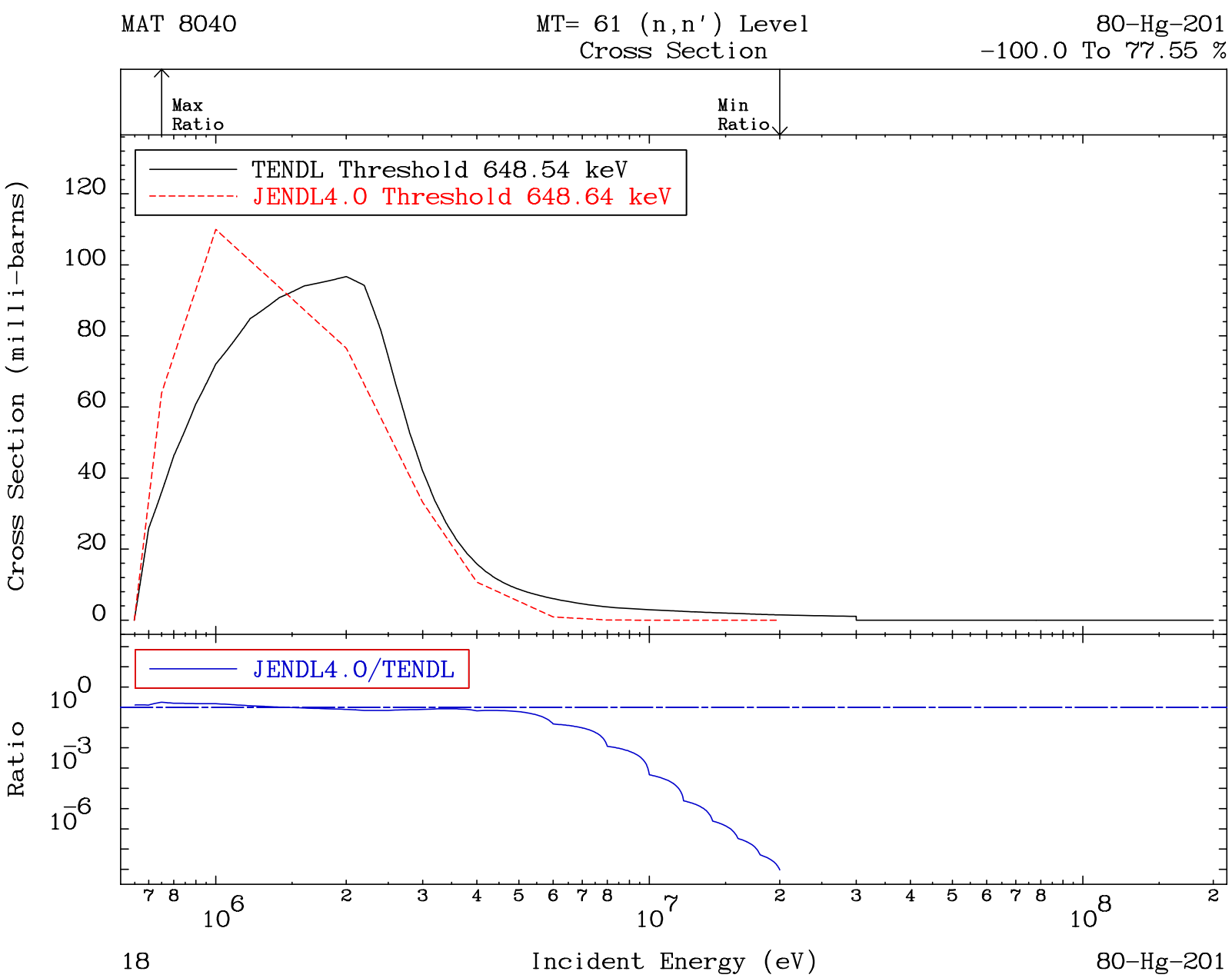

MAT 8040
MT= 56 (n,n') Level
Cross Section
80-Hg-201
-31.48 To 77.26 %
Max
Ratio
Min
Ratio
TENDL Threshold 416.62 keV
JENDL4.0 Threshold 416.62 keV
Cross Section (milli-barns)
200
150
100
50
0
JENDL4.0/TENDL
Ratio
2.0
1.6
1.2
0.8
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
80-Hg-201

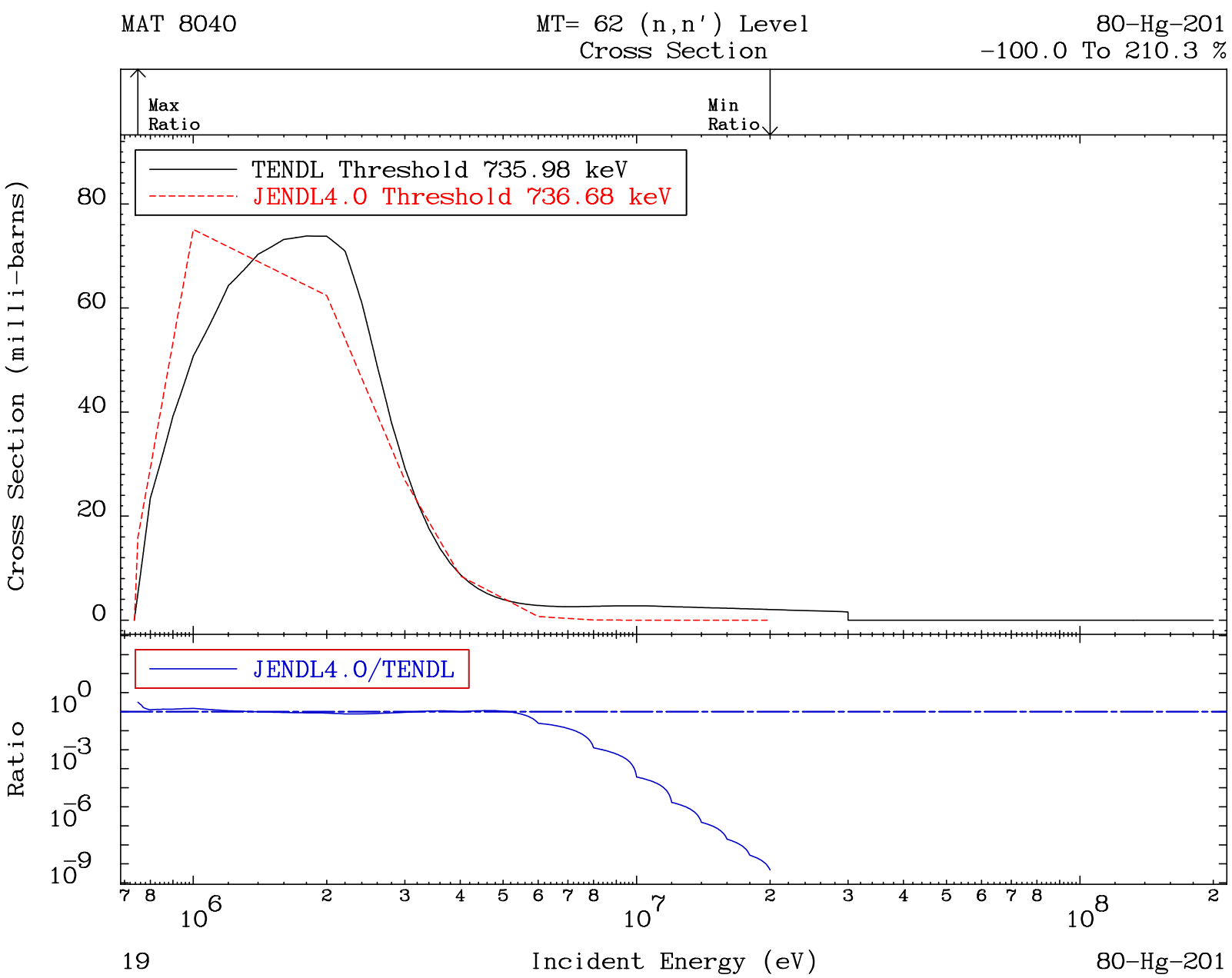

MAT 8040
MT= 57 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 53.53 %
Max
Ratio
Min
Ratio
TENDL Threshold 466.74 keV
JENDL4.0 Threshold 466.74 keV
Cross Section (milli-barns)
160
120
80
40
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
10^-9
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
80-Hg-201

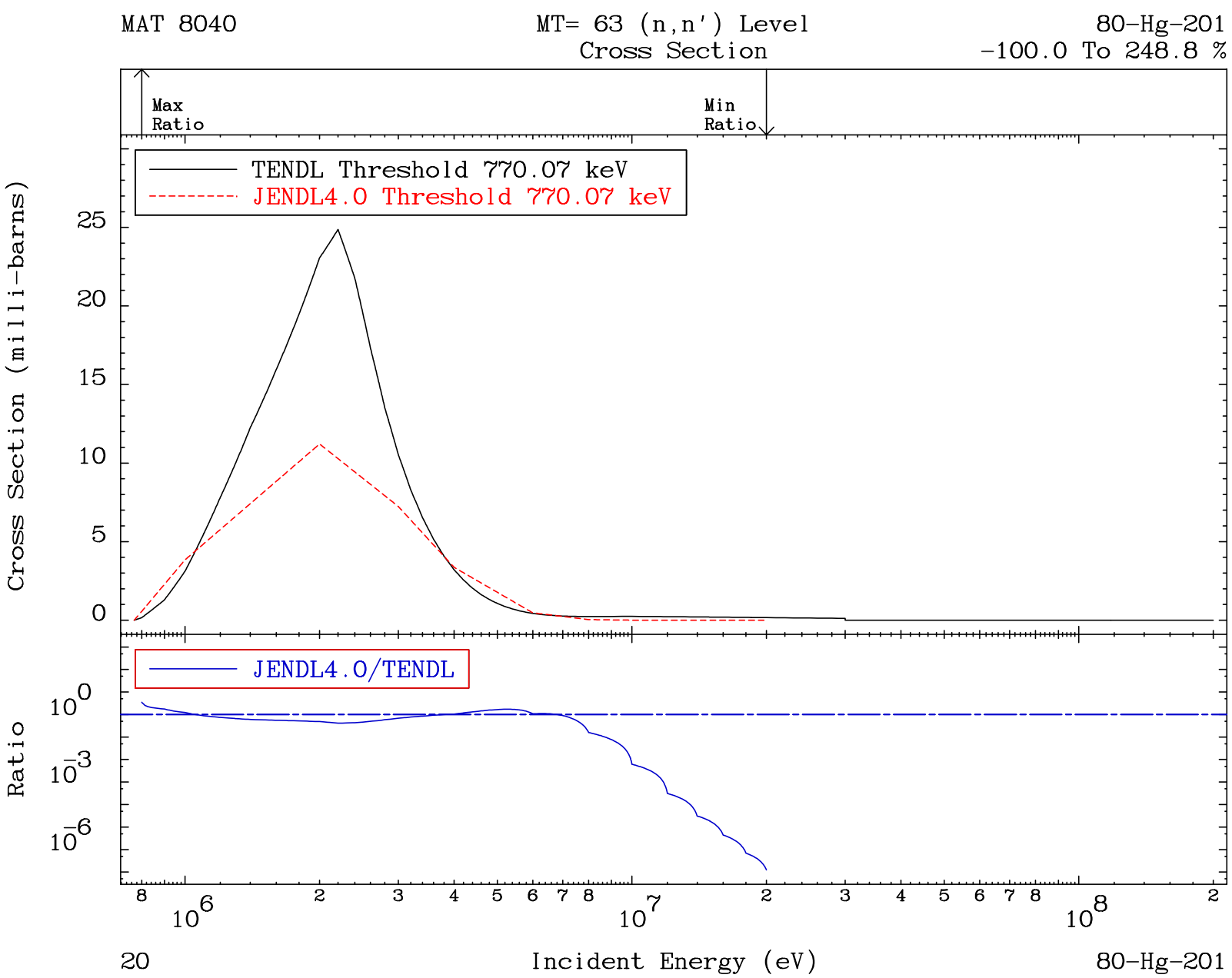

MAT 8040
MT= 58 (n,n') Level
Cross Section
80-Hg-201
-100.0 To -20.04%
Max
Ratio
Min
Ratio
TENDL Threshold 545.53 keV
JENDL4.0 Threshold 545.73 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
80-Hg-201

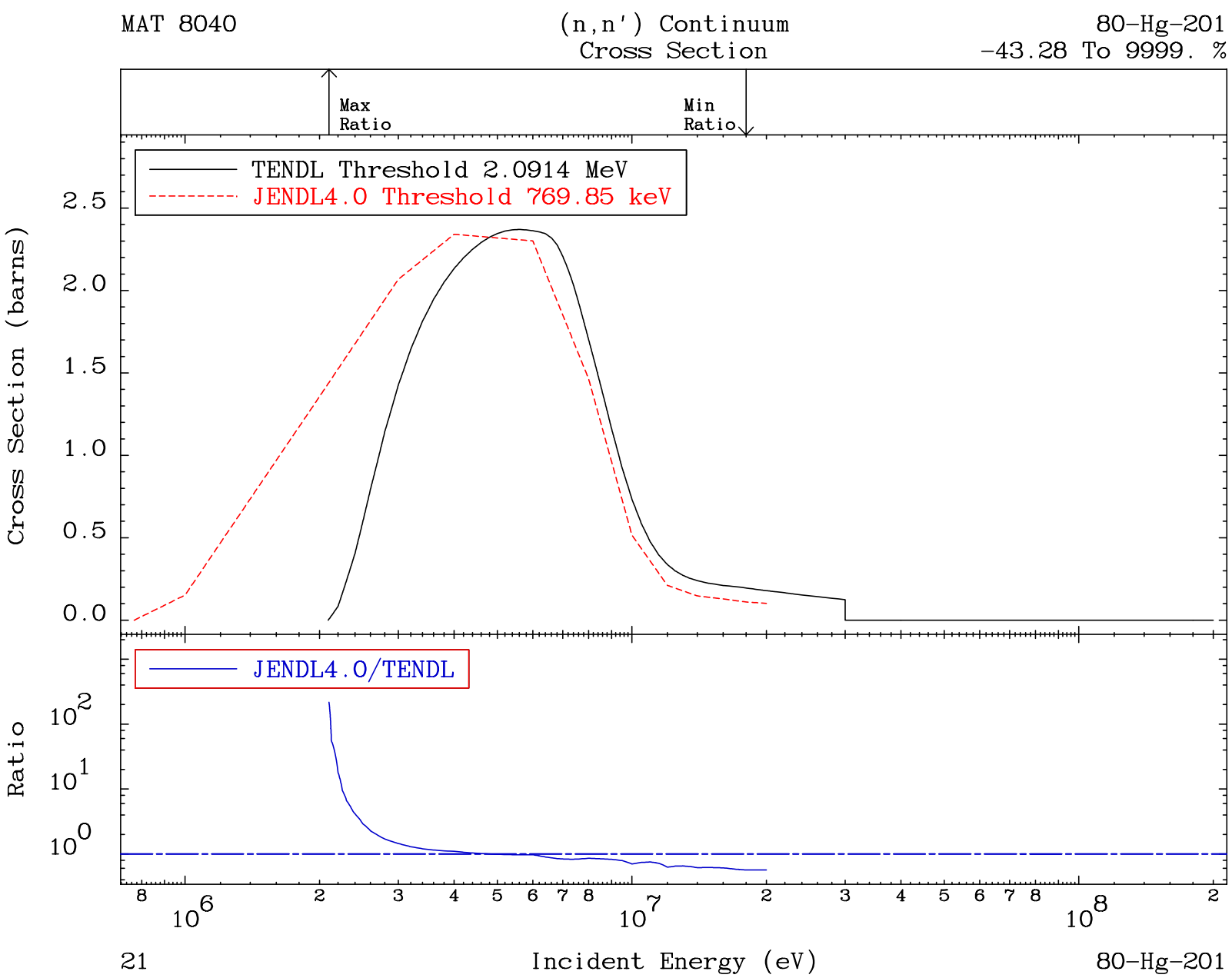

MAT 8040
MT= 59 (n,n') Level
Cross Section
80-Hg-201
-77.47 To 253.6 %
Max Ratio
Min Ratio
TENDL Threshold 550.07 keV
JENDL4.0 Threshold 550.07 keV
Cross Section (milli-barns)
0
20
40
60
80
JENDL4.0/TENDL
Ratio
10^0
10^6
10^7
10^8
Incident Energy (eV)
16
80-Hg-201

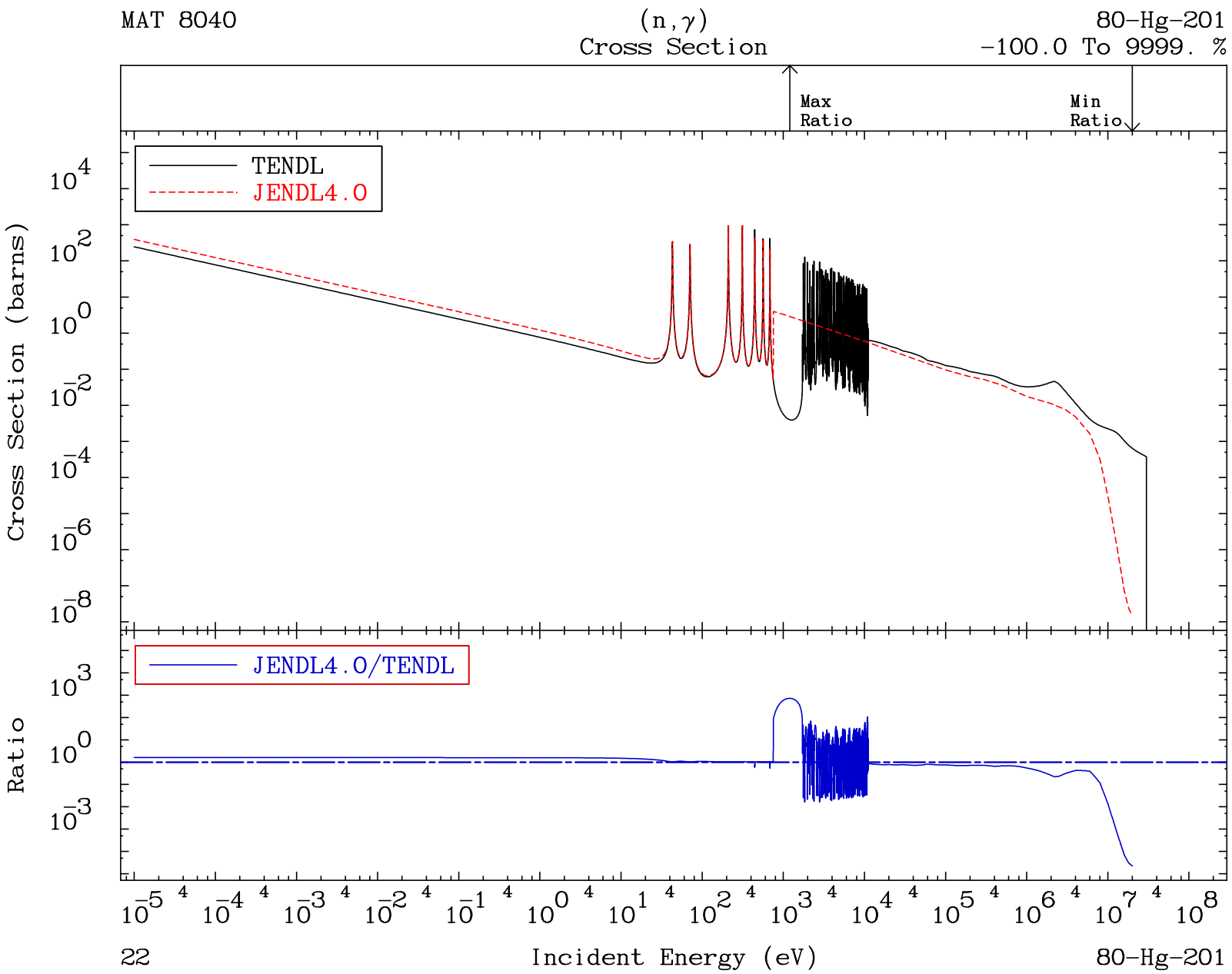

MAT 8040
MT= 60 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 55.20 %
Max
Ratio
Min
Ratio
TENDL Threshold 555.78 keV
JENDL4.0 Threshold 555.78 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
10^-9
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
80-Hg-201

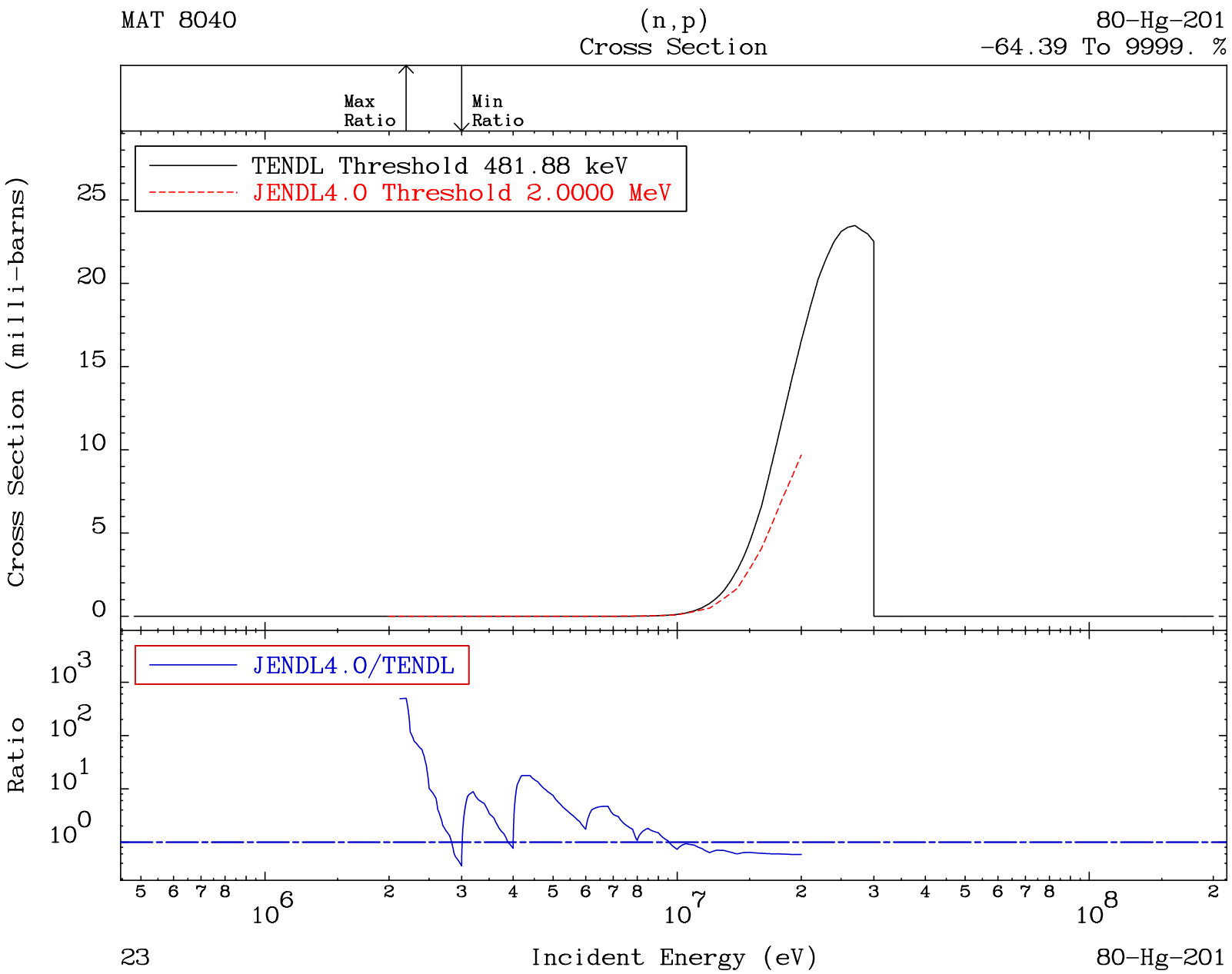

MAT 8040
MT= 61 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 77.55 %
Max
Ratio
Min
Ratio
TENDL Threshold 648.54 keV
JENDL4.0 Threshold 648.64 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
7 8
10^6
2
3
4
5
6
7 8
10^7
2
3
4
5
6
7 8
10^8
2
18
Incident Energy (eV)
80-Hg-201

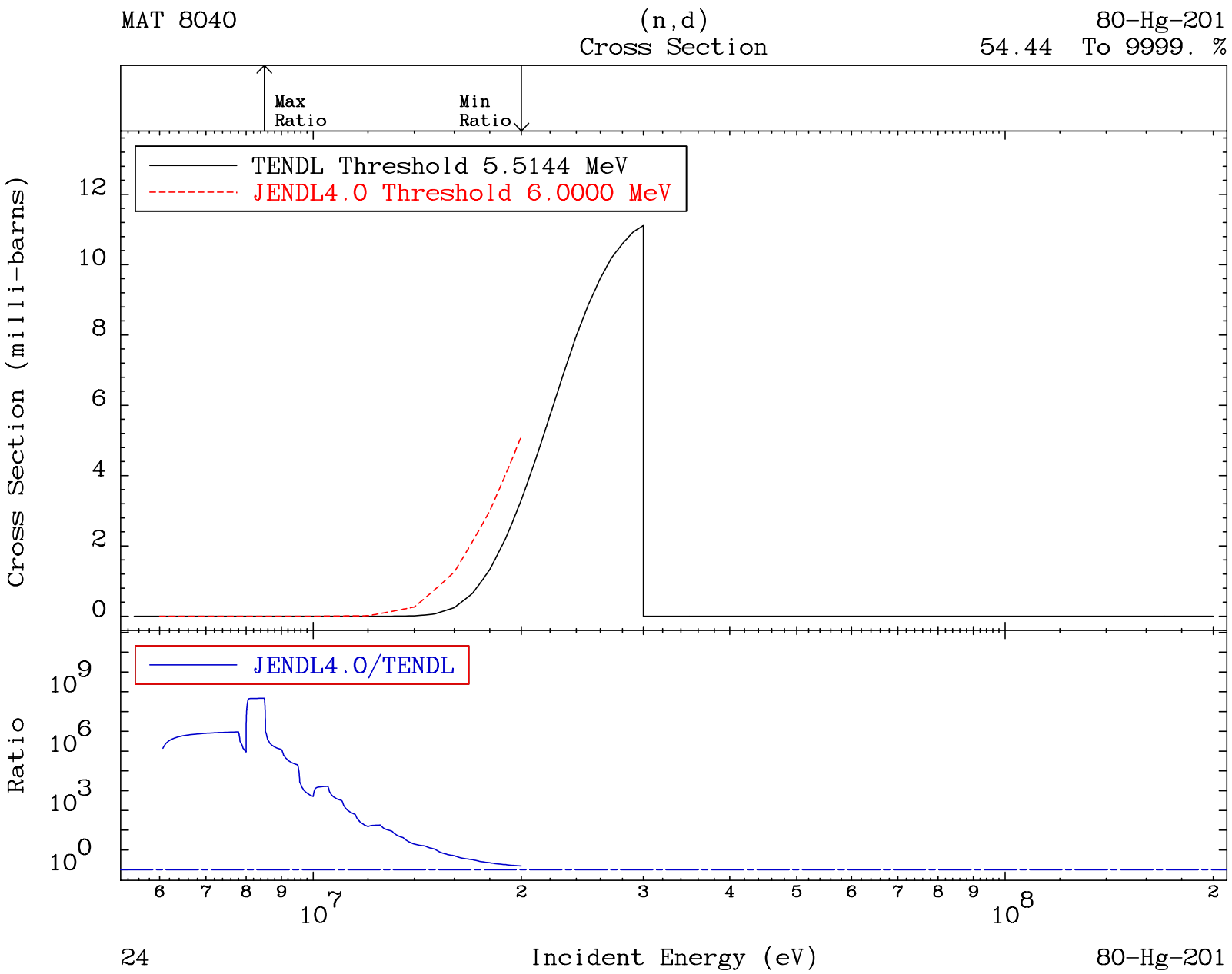

MAT 8040
MT= 62 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 210.3 %
Max Ratio
Min Ratio
TENDL Threshold 735.98 keV
JENDL4.0 Threshold 736.68 keV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
10^-9
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
80-Hg-201

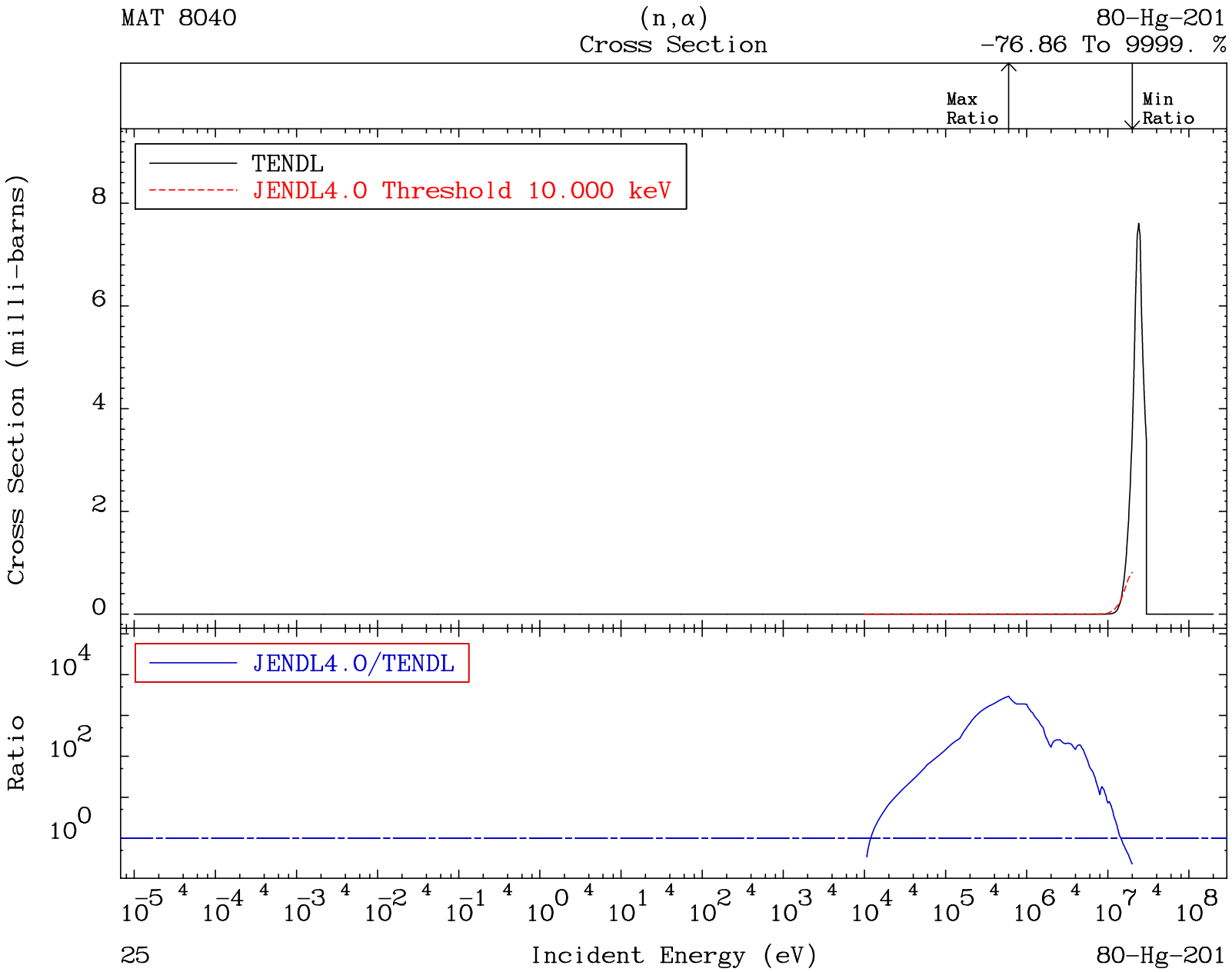

MAT 8040
MT= 63 (n,n') Level
Cross Section
80-Hg-201
-100.0 To 248.8 %
Max
Ratio
Min
Ratio
TENDL Threshold 770.07 keV
JENDL4.0 Threshold 770.07 keV
Cross Section (milli-barns)
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
80-Hg-201

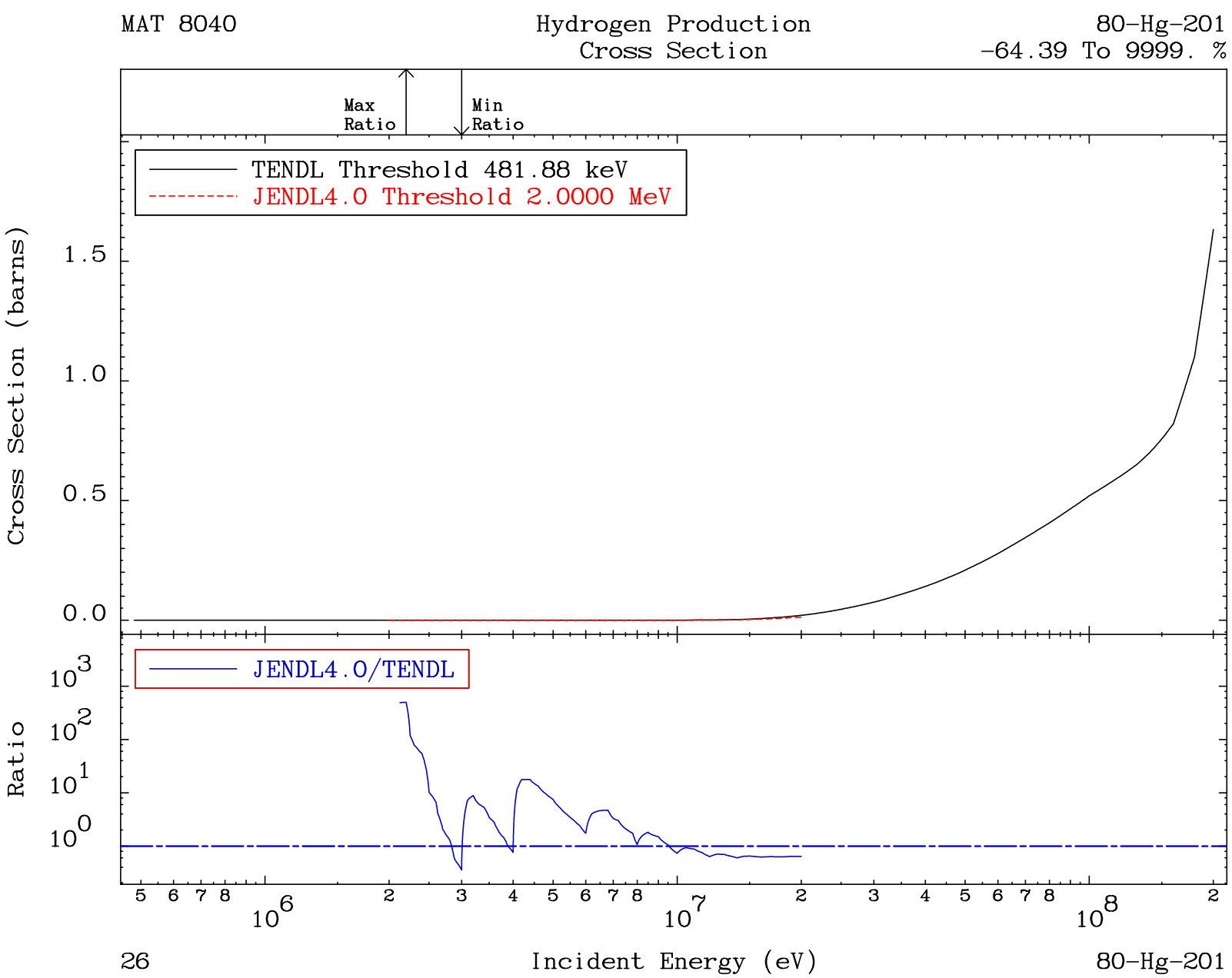

MAT 8040
(n,n') Continuum
Cross Section
80-Hg-201
-43.28 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 2.0914 MeV
JENDL4.0 Threshold 769.85 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
80-Hg-201

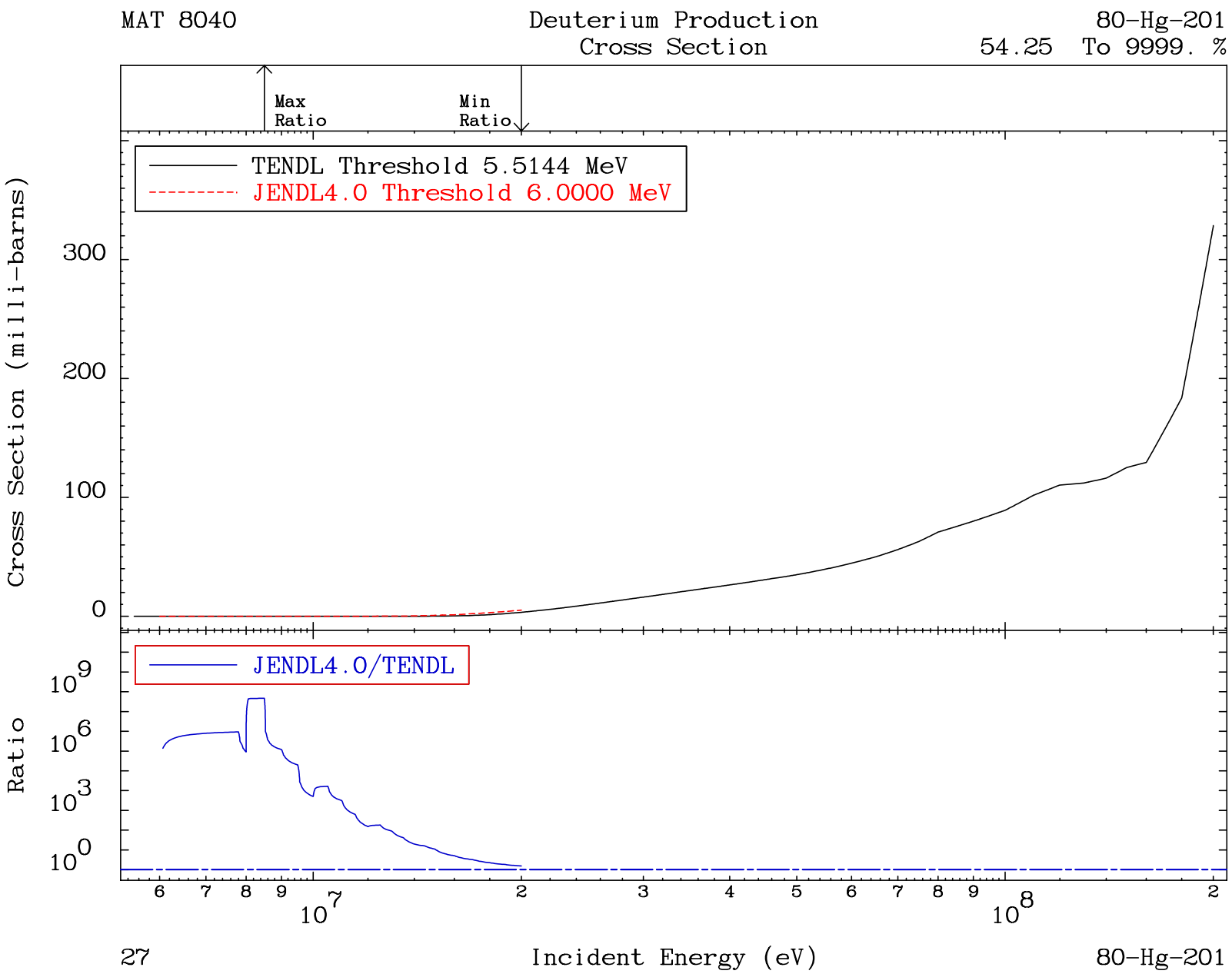

MAT 8040
(n,γ)
Cross Section
80-Hg-201
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
22
80-Hg-201

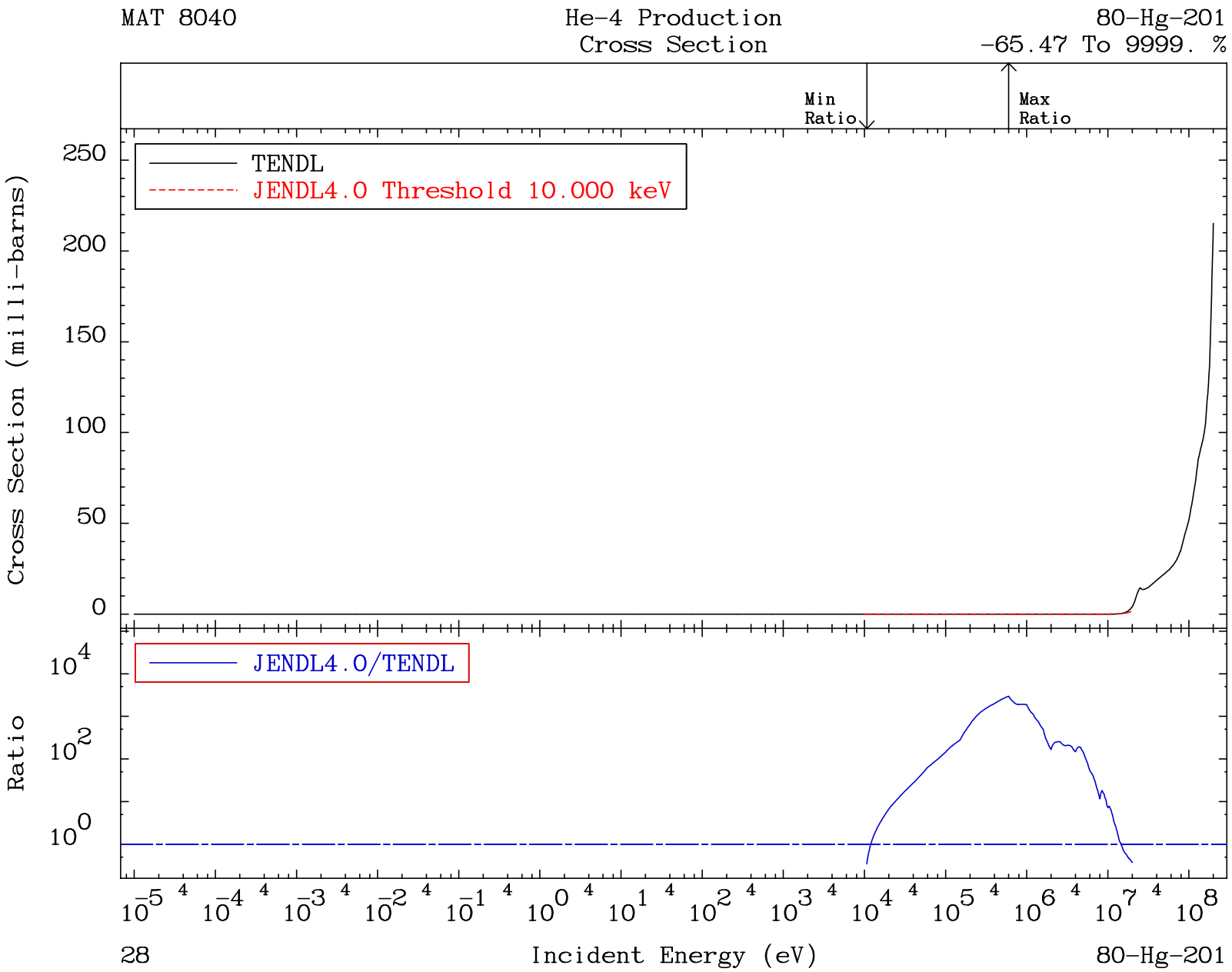

MAT 8040
(n,p)
Cross Section
80-Hg-201
-64.39 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 481.88 keV
JENDL4.0 Threshold 2.0000 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^3
10^2
10^1
10^0
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
80-Hg-201

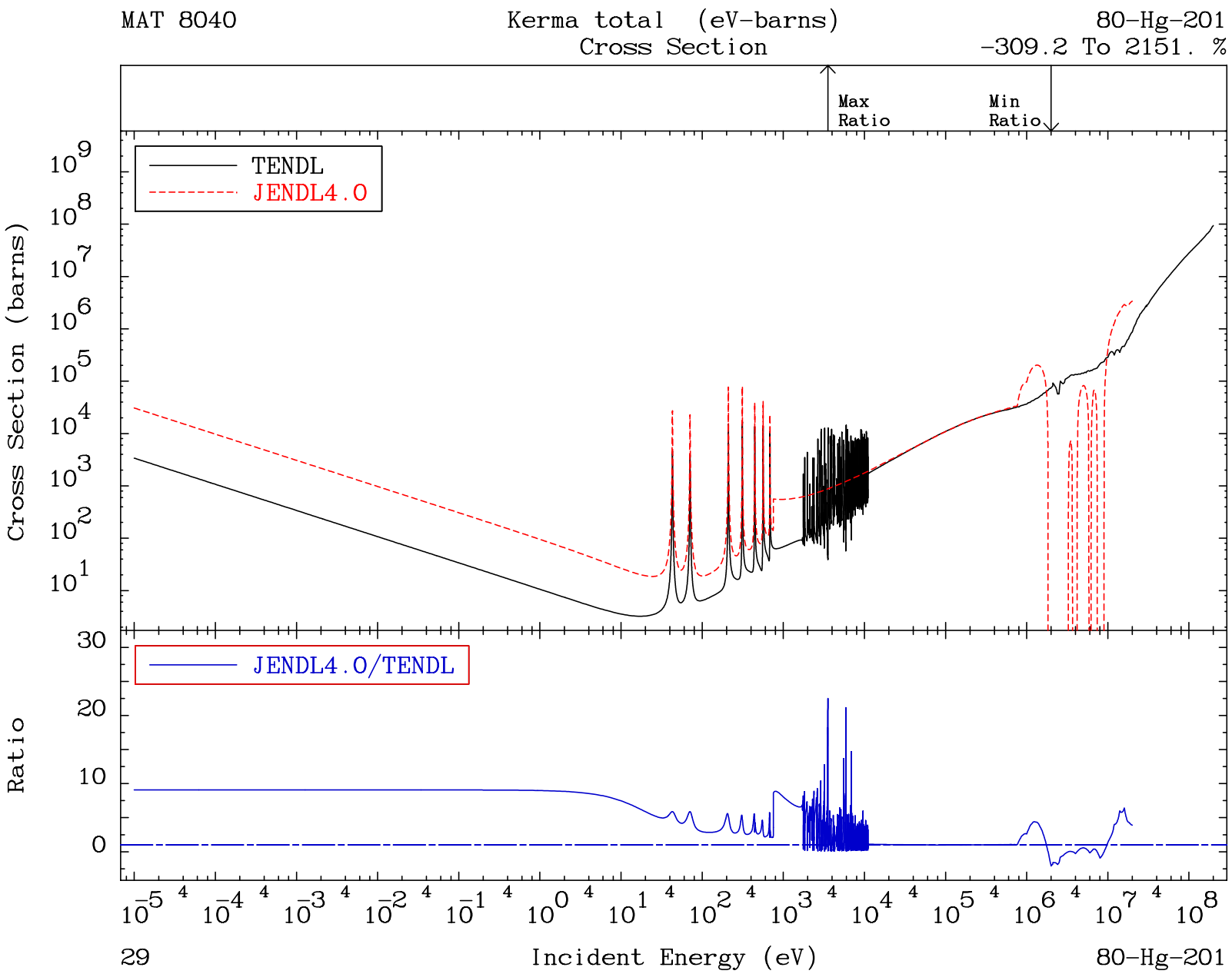

MAT 8040
(n,d)
Cross Section
80-Hg-201
54.44 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.5144 MeV
JENDL4.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
24
80-Hg-201

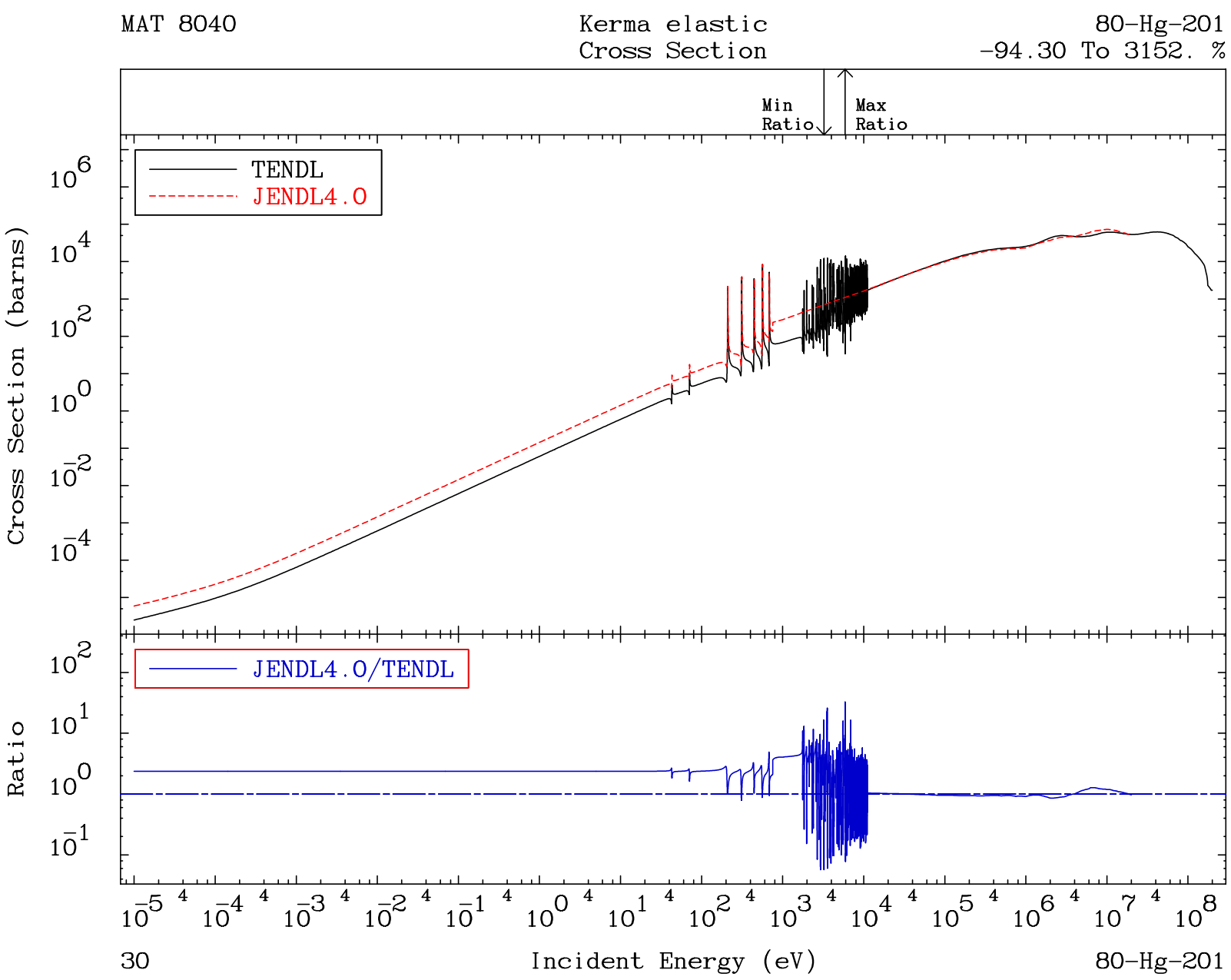

MAT 8040
(n,α)
Cross Section
80-Hg-201
-76.86 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0 Threshold 10.000 keV
Cross Section (milli-barns)
0
2
4
6
8
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
25
Incident Energy (eV)
80-Hg-201

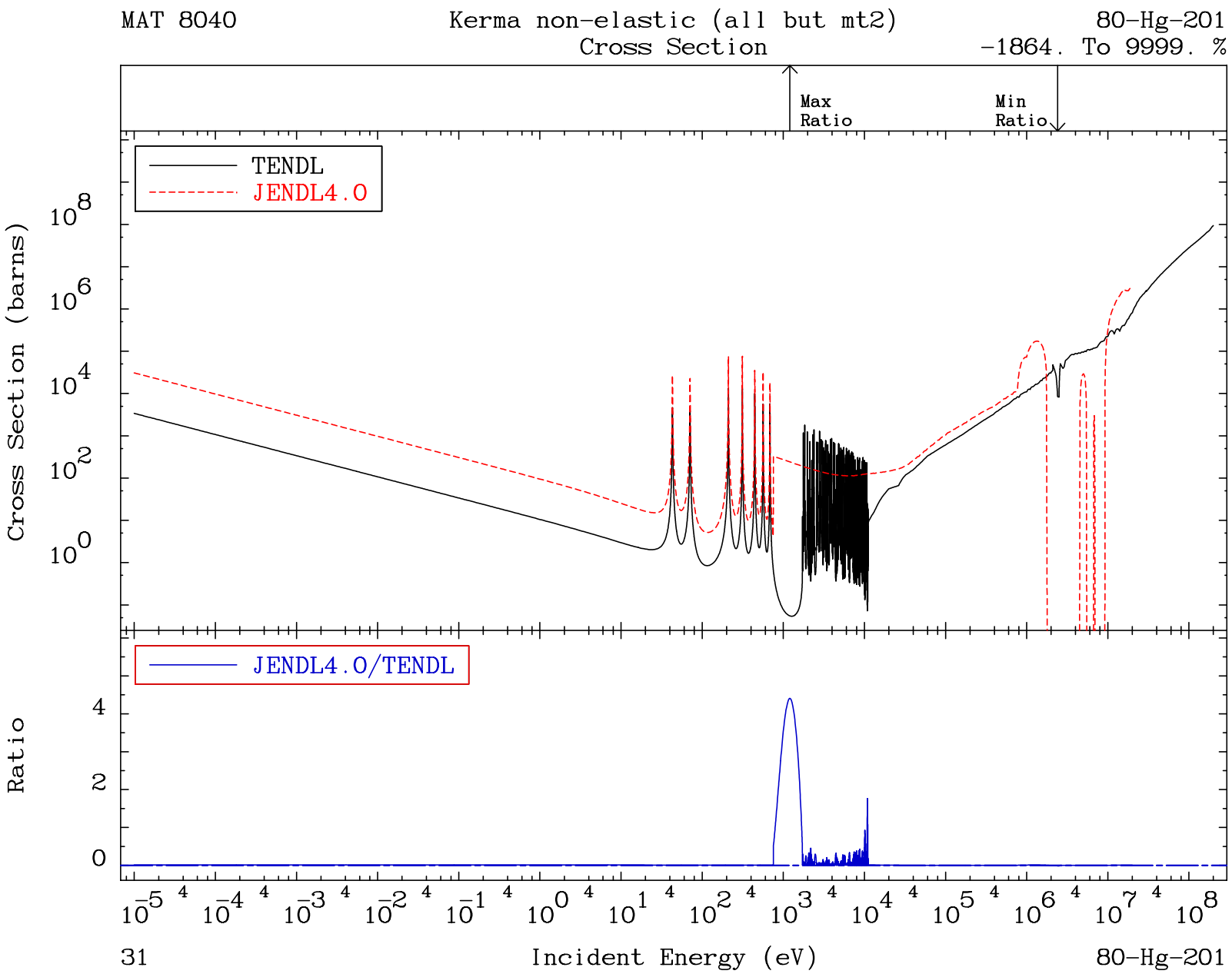

MAT 8040
Hydrogen Production
Cross Section
80-Hg-201
-64.39 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 481.88 keV
JENDL4.0 Threshold 2.0000 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^3
10^2
10^1
10^0
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
80-Hg-201

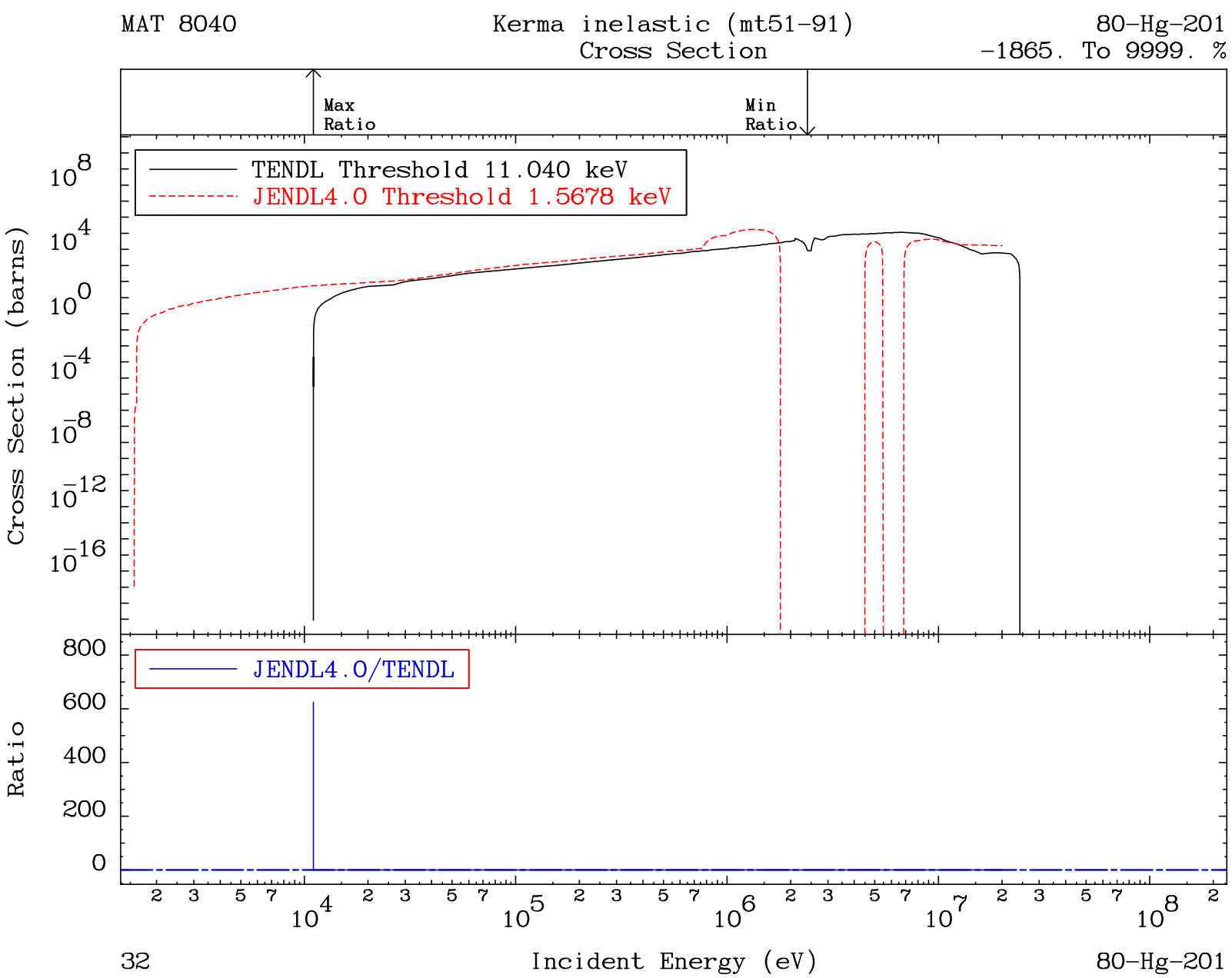

MAT 8040
Deuterium Production
Cross Section
80-Hg-201
54.25 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.5144 MeV
JENDL4.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
300
200
100
0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
80-Hg-201

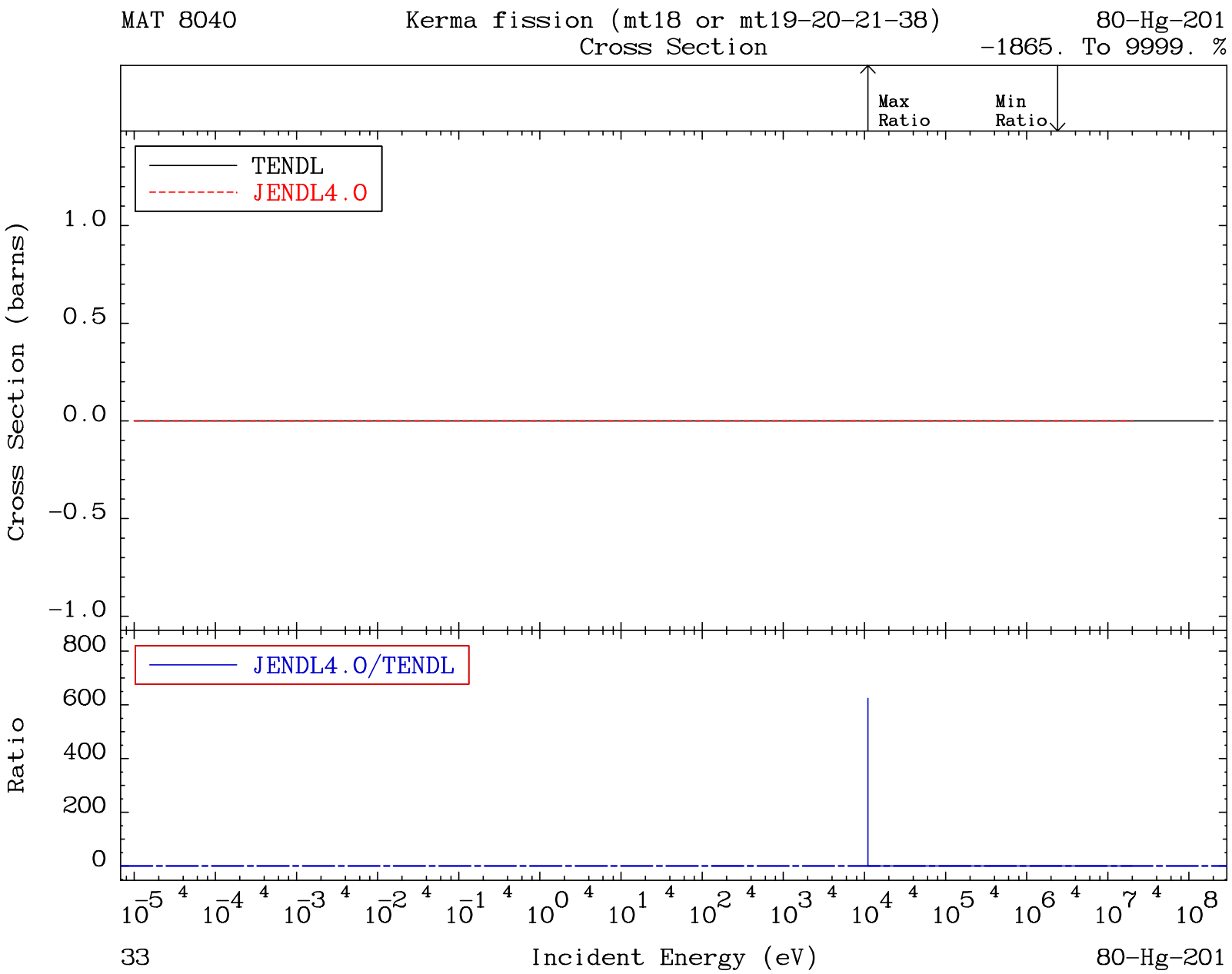

MAT 8040
He-4 Production
Cross Section
80-Hg-201
-65.47 To 9999. %
Min
Ratio
Max
Ratio
TENDL
JENDL4.0 Threshold 10.000 keV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
28
Incident Energy (eV)
80-Hg-201

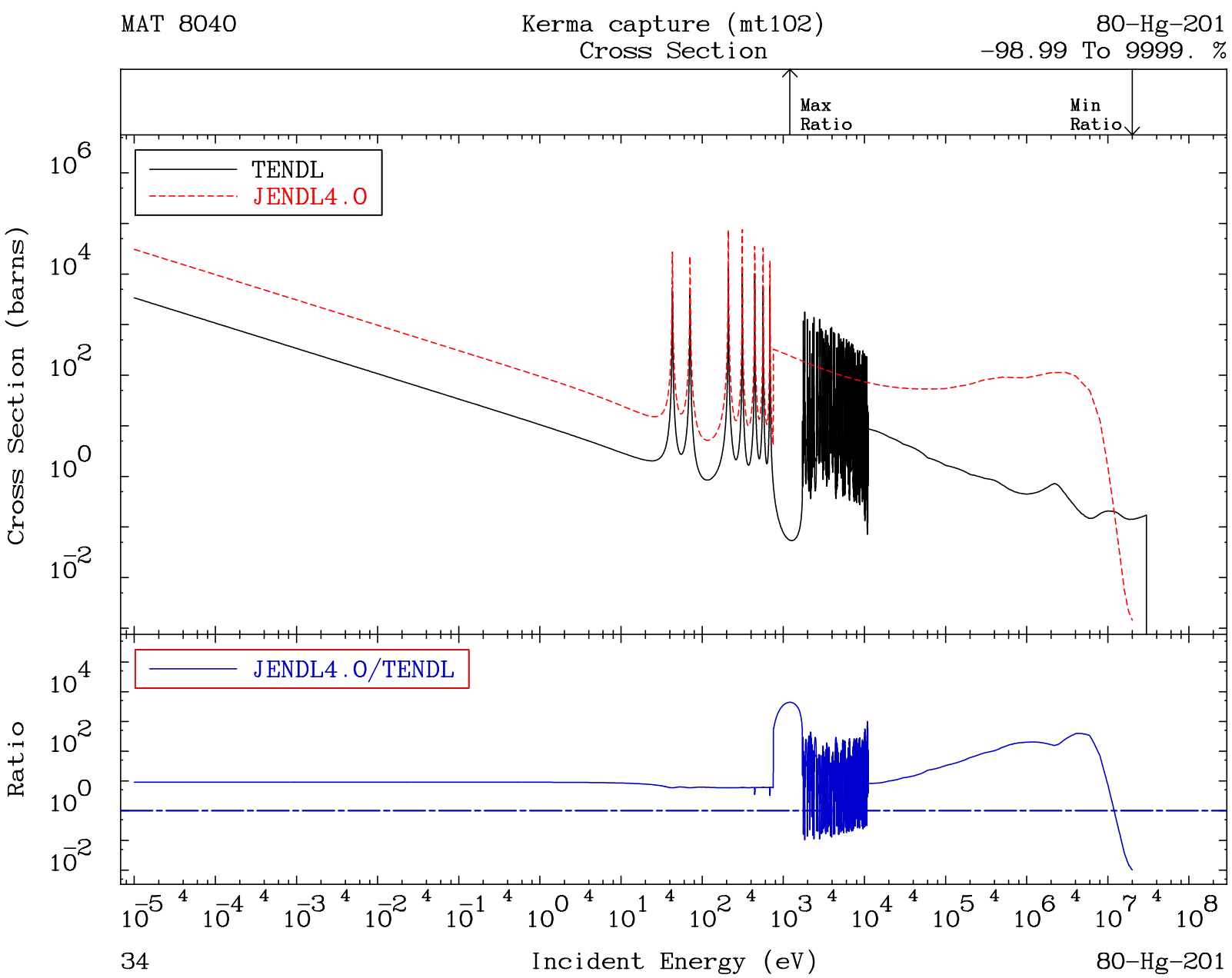

MAT 8040
Kerma total (eV-barns)
Cross Section
80-Hg-201
-309.2 To 2151. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
29
80-Hg-201

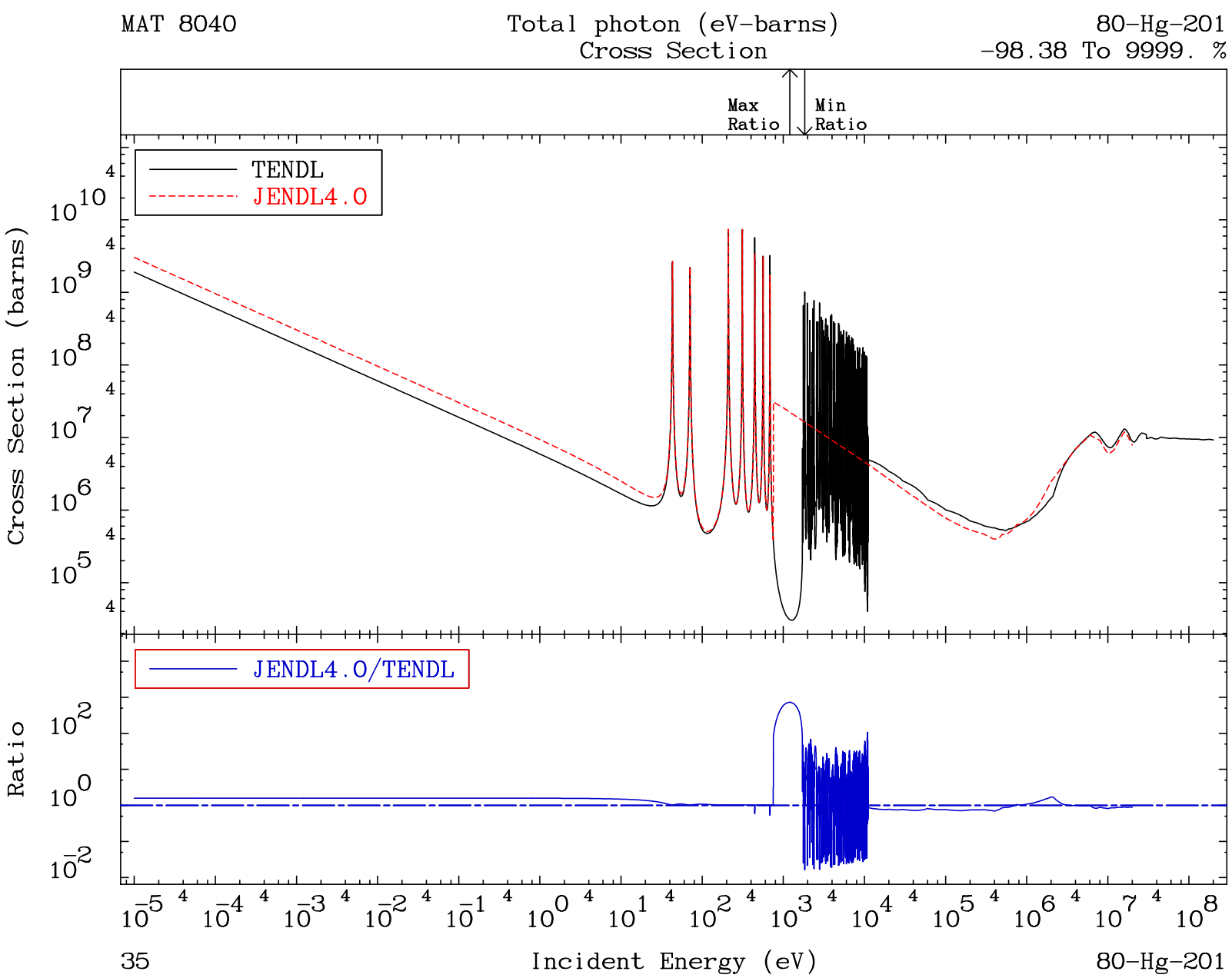

MAT 8040
Kerma elastic
Cross Section
80-Hg-201
-94.30 To 3152. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
30
80-Hg-201

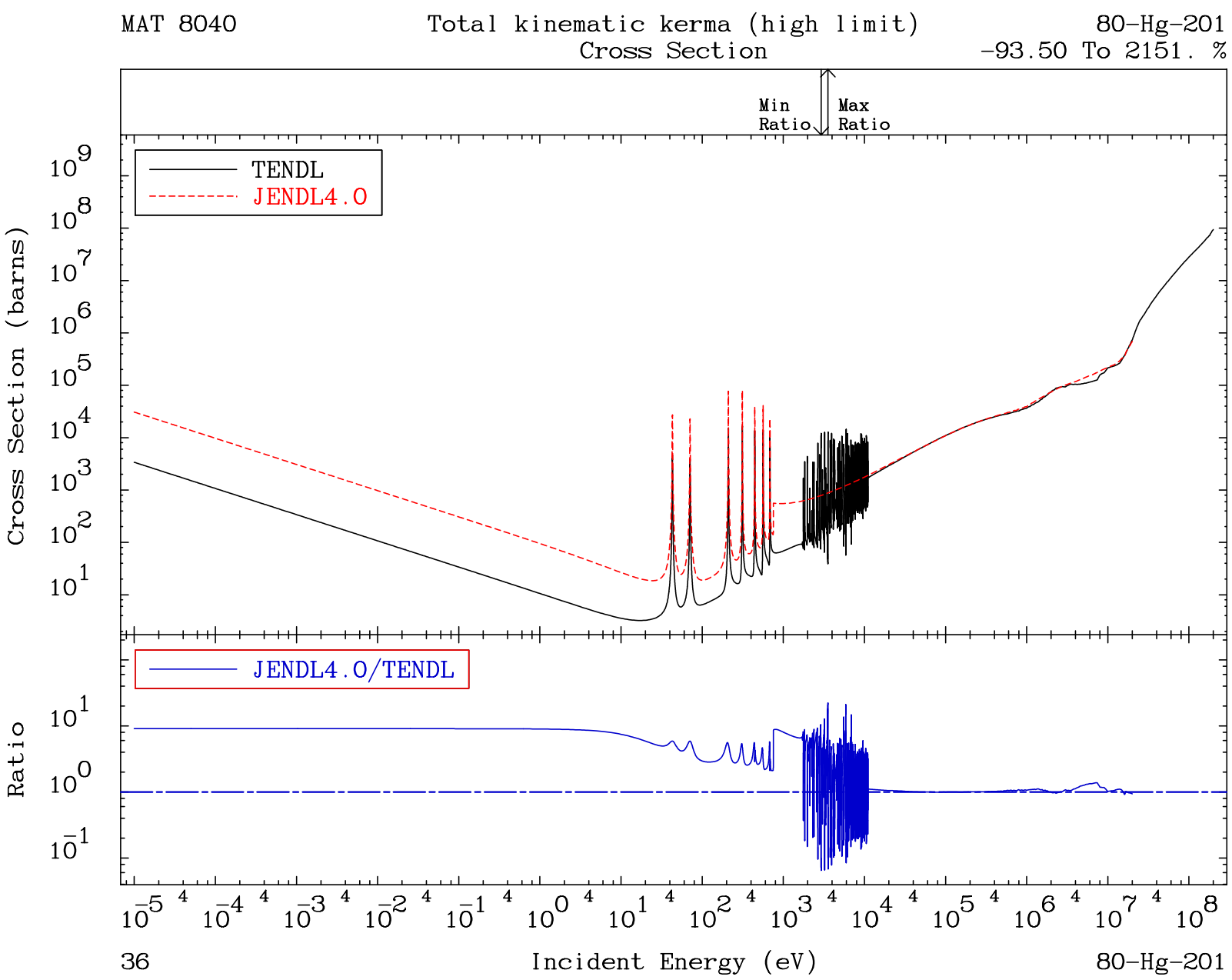

MAT 8040
Kerma non-elastic (all but mt2)
Cross Section
80-Hg-201
-1864. To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
31
80-Hg-201

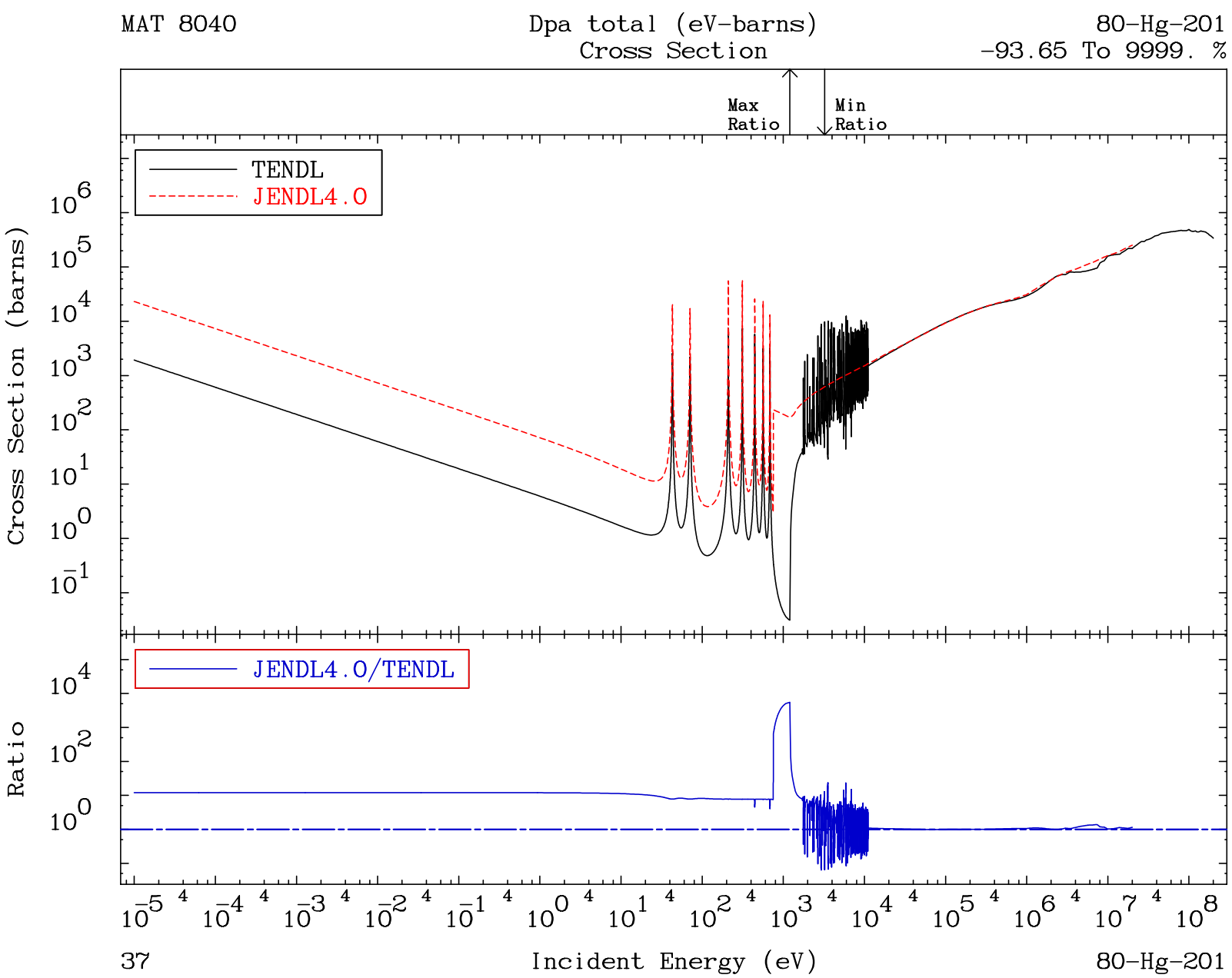

MAT 8040
Kerma inelastic (mt51-91)
Cross Section
80-Hg-201
-1865. To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.040 keV
JENDL4.0 Threshold 1.5678 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
32
80-Hg-201

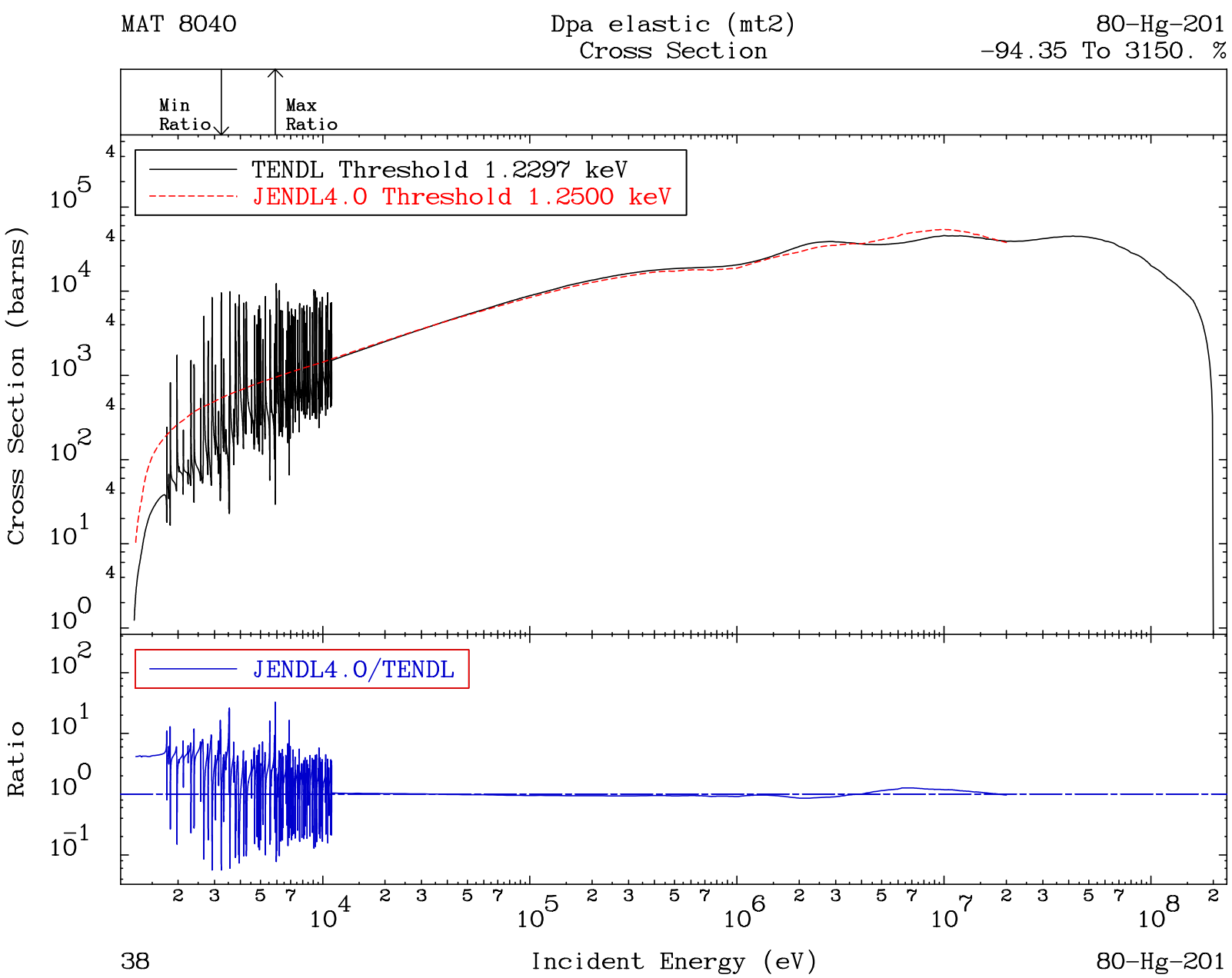

MAT 8040
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
80-Hg-201
-1865. To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
800
600
400
200
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
33
Incident Energy (eV)
80-Hg-201

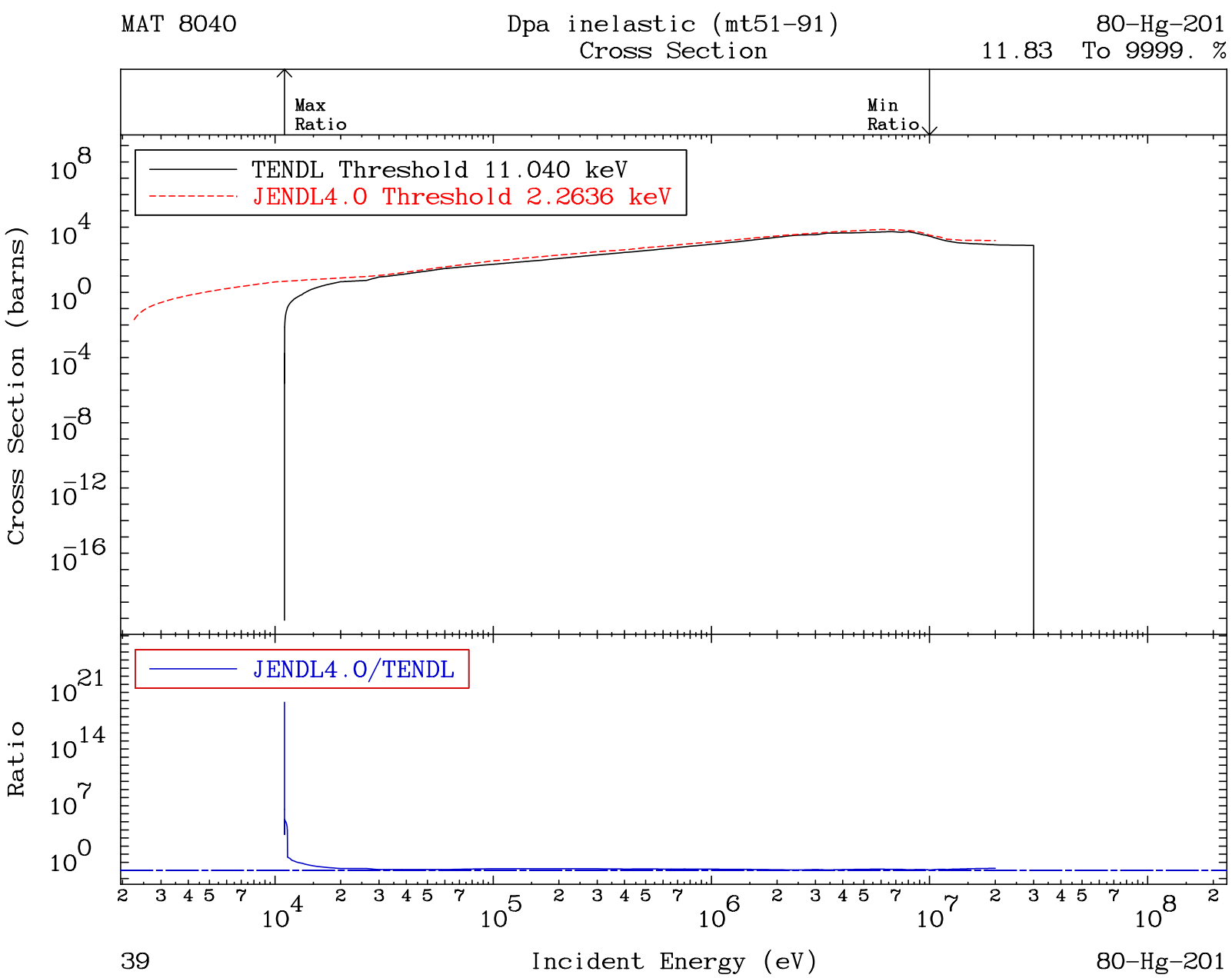

MAT 8040
Kerma capture (mt102)
Cross Section
80-Hg-201
-98.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
34
80-Hg-201

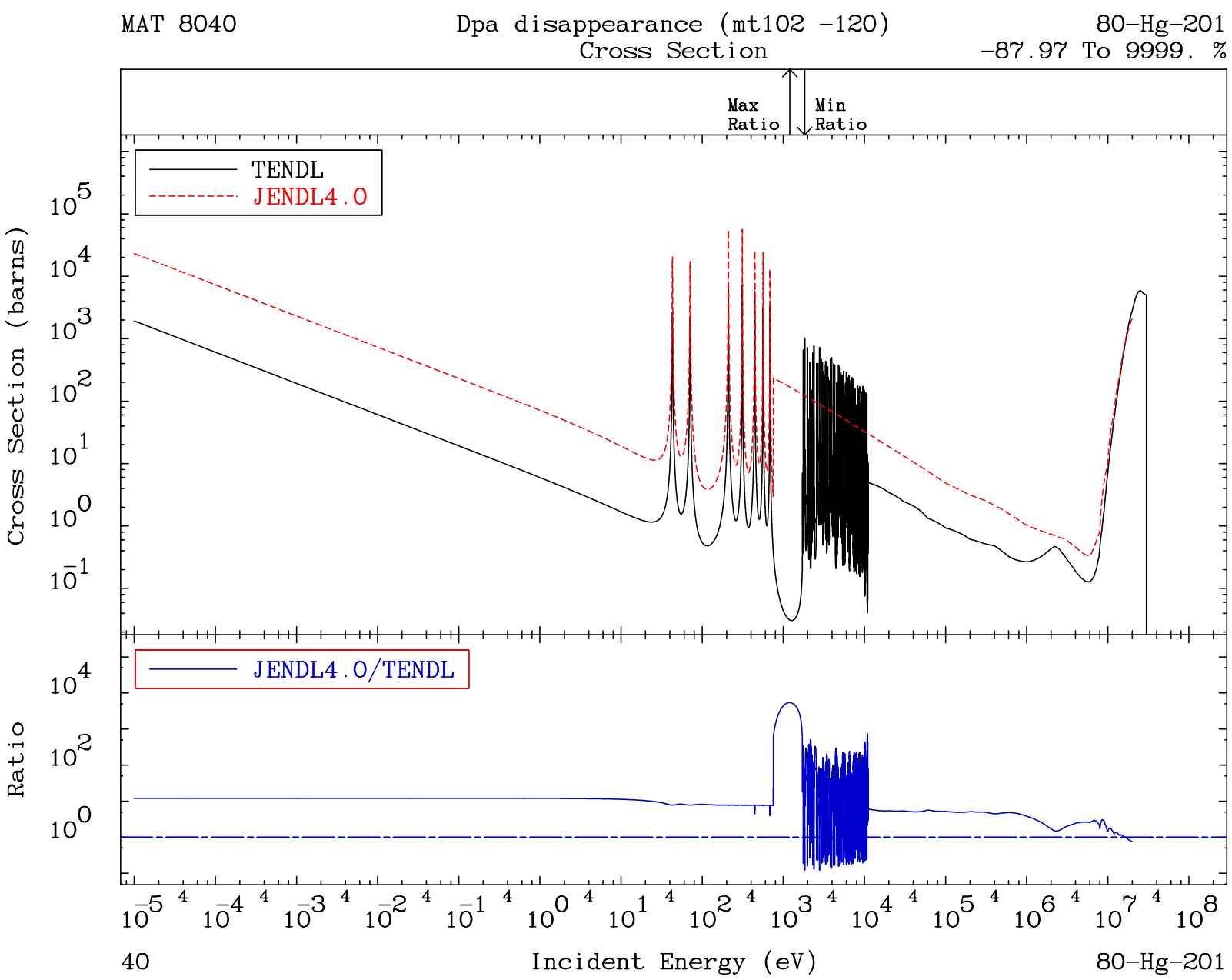

MAT 8040
Total photon (eV-barns)
Cross Section
80-Hg-201
-98.38 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
35
80-Hg-201

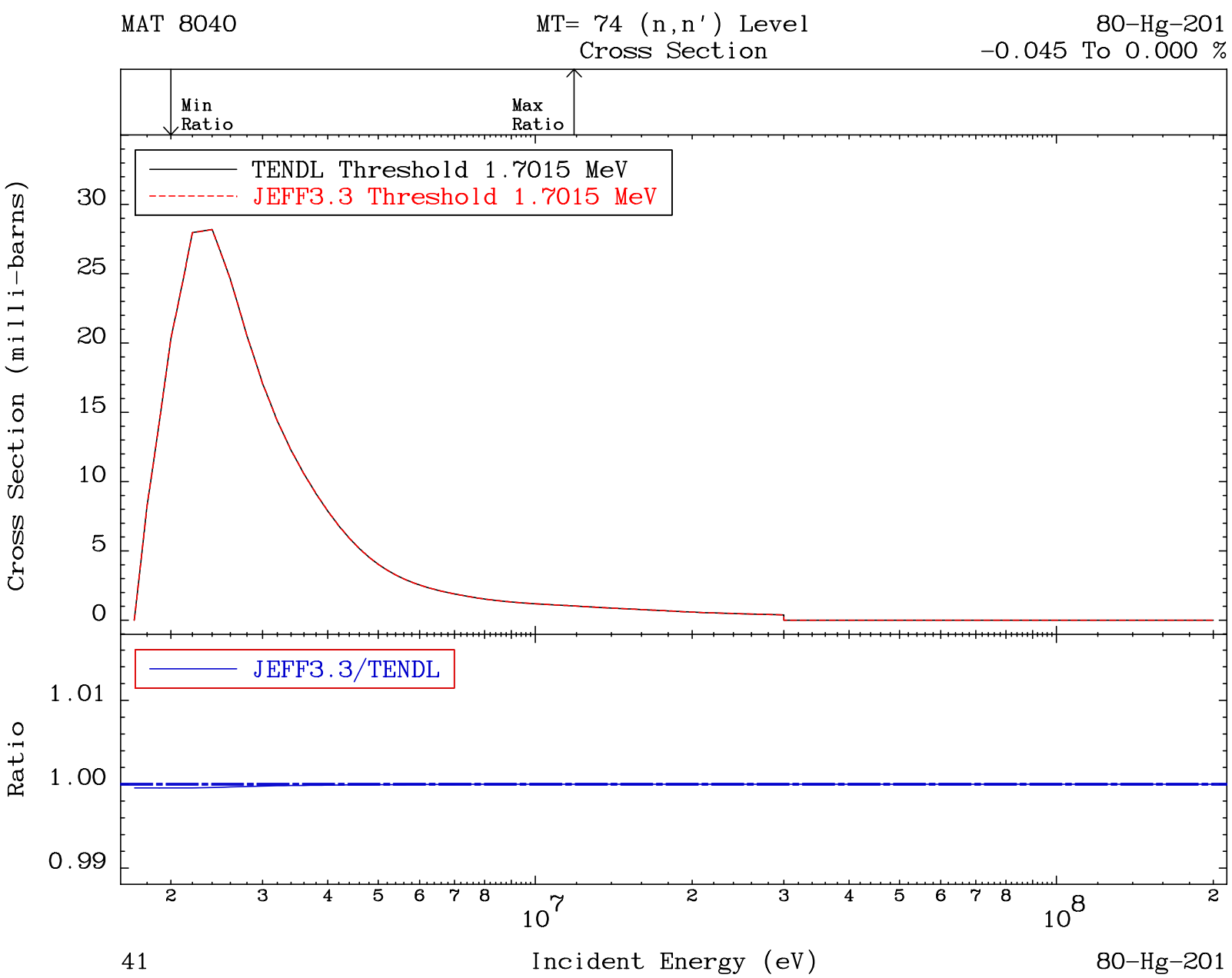

MAT 8040
Total kinematic kerma (high limit)
Cross Section
80-Hg-201
-93.50 To 2151. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
36
80-Hg-201

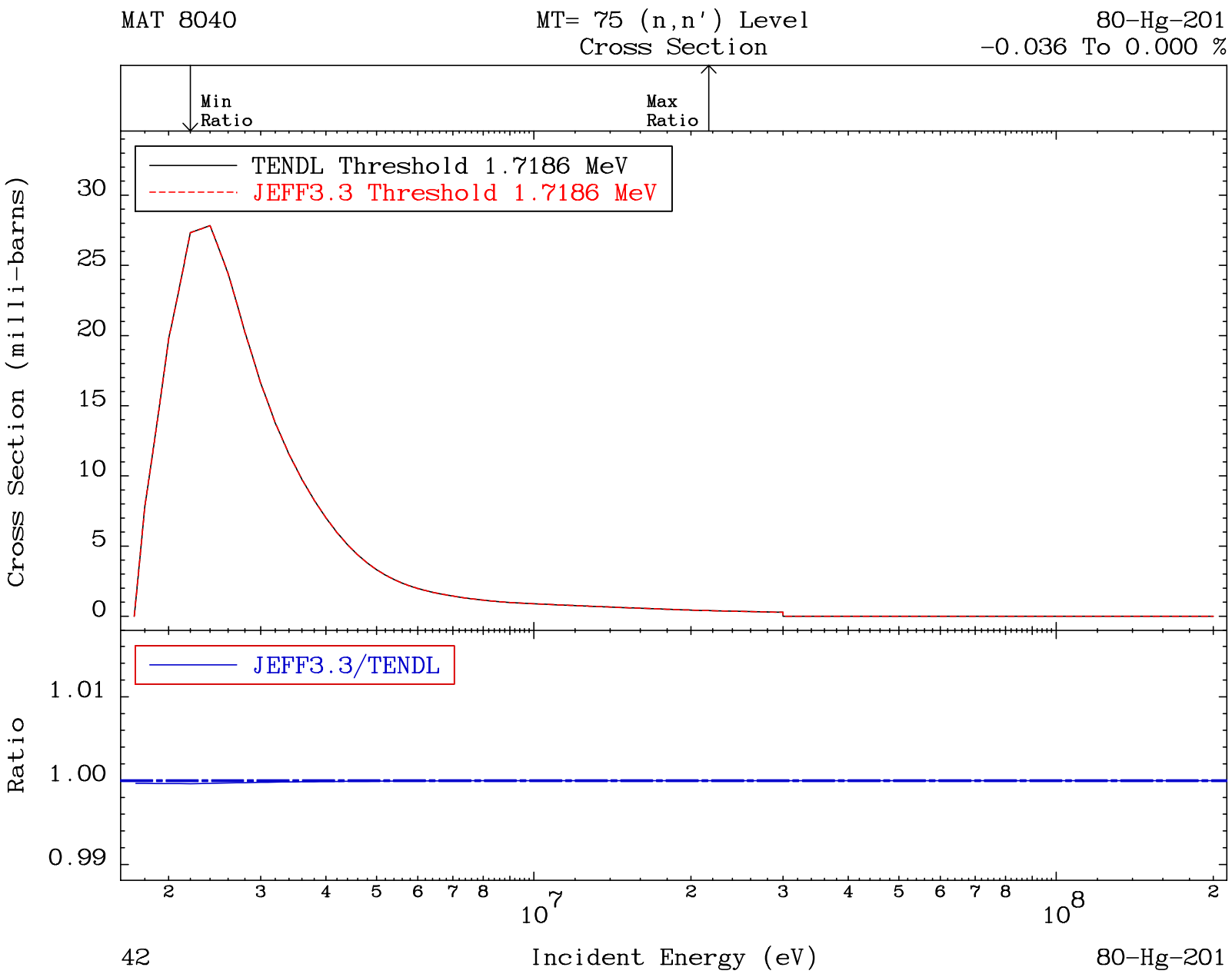

MAT 8040
Dpa total (eV-barns)
Cross Section
80-Hg-201
-93.65 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
37
80-Hg-201

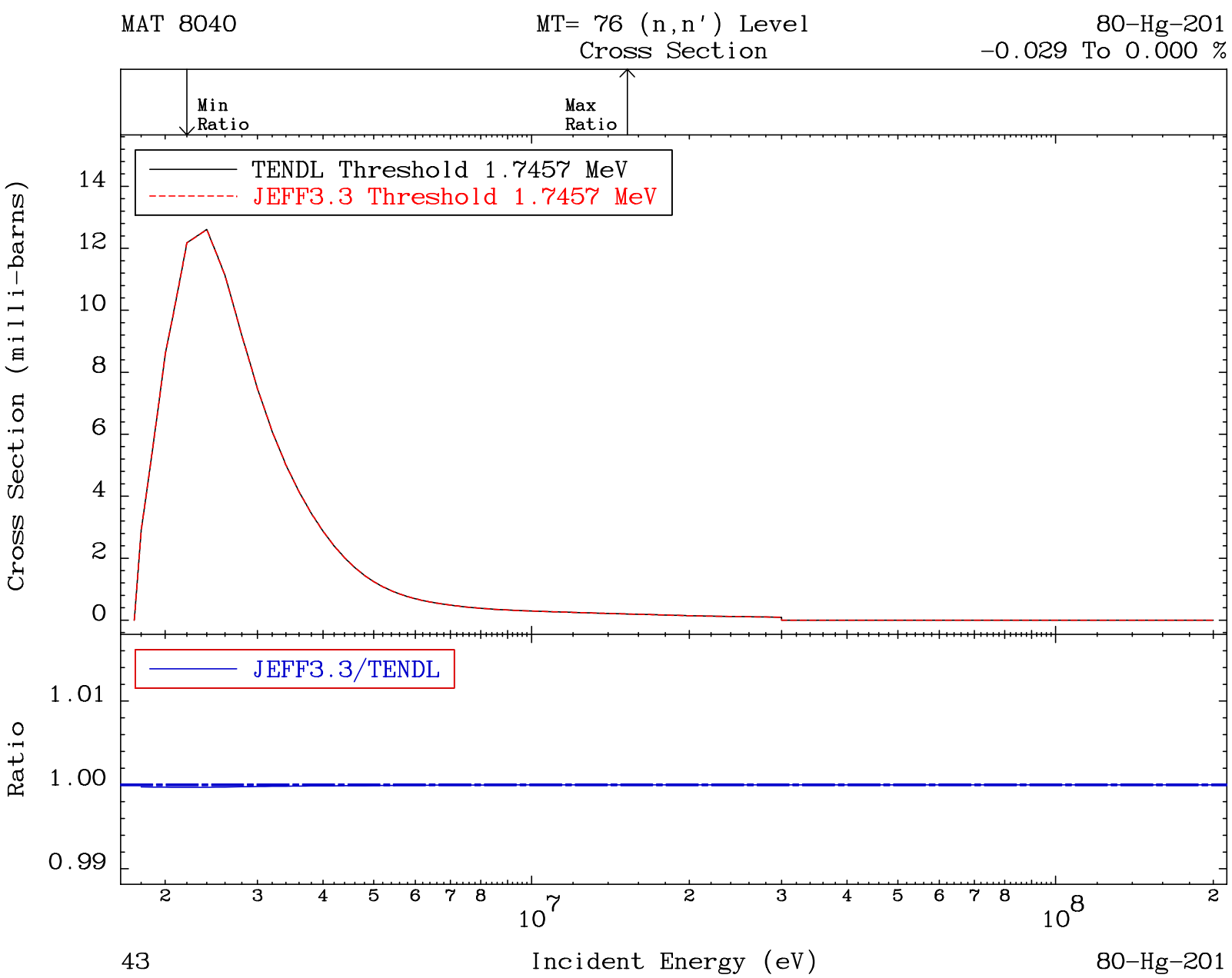

MAT 8040
Dpa elastic (mt2)
Cross Section
80-Hg-201
-94.35 To 3150. %
Min Ratio
Max Ratio
TENDL Threshold 1.2297 keV
JENDL4.0 Threshold 1.2500 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
38
Incident Energy (eV)
80-Hg-201

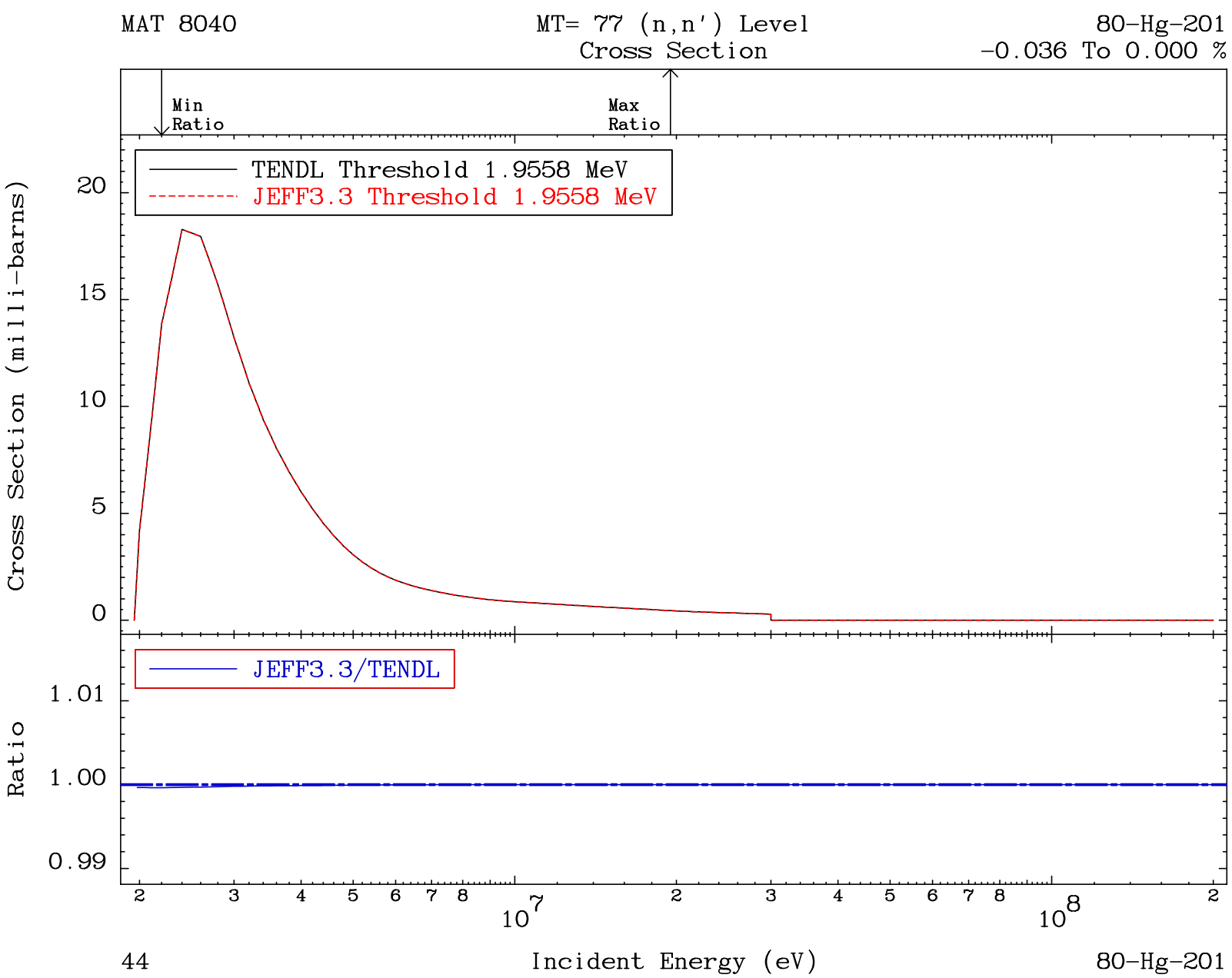

MAT 8040
Dpa inelastic (mt51-91)
Cross Section
80-Hg-201
11.83 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.040 keV
JENDL4.0 Threshold 2.2636 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
39
80-Hg-201

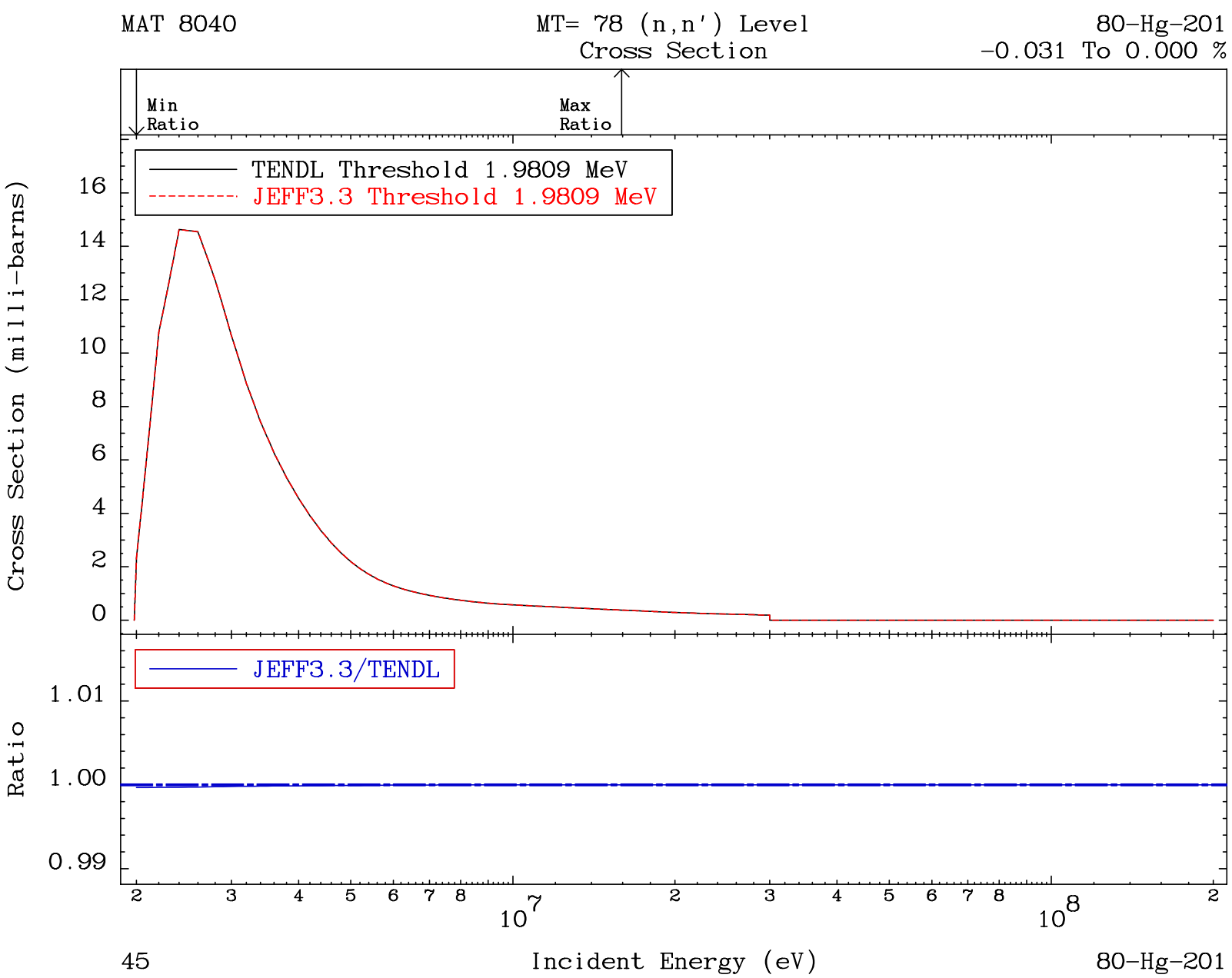

MAT 8040
Dpa disappearance (mt102 -120)
Cross Section
80-Hg-201
-87.97 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
40
80-Hg-201

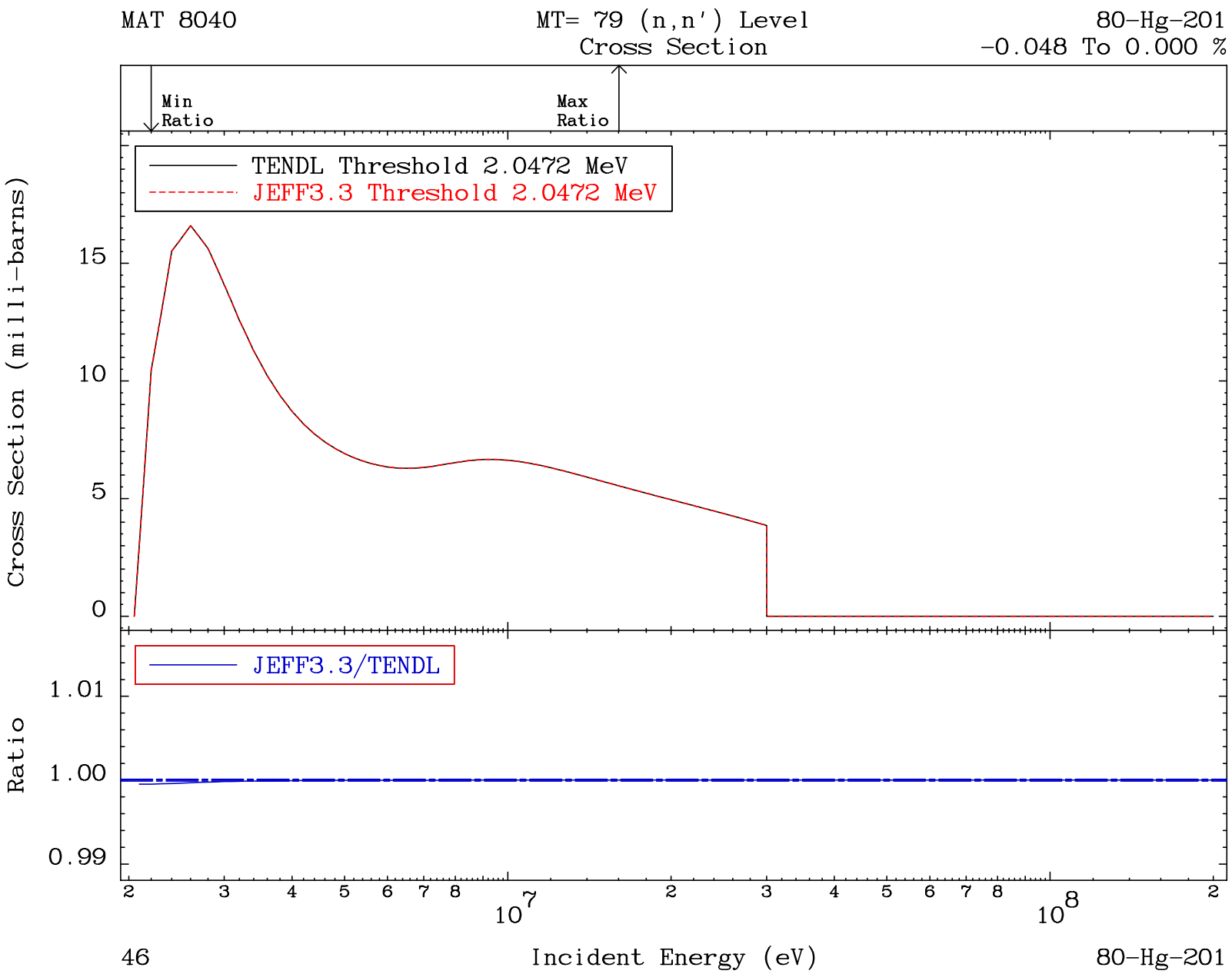

MAT 8040
MT= 74 (n,n') Level
Cross Section
80-Hg-201
-0.045 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.7015 MeV
JEFF3.3 Threshold 1.7015 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
41
Incident Energy (eV)
80-Hg-201

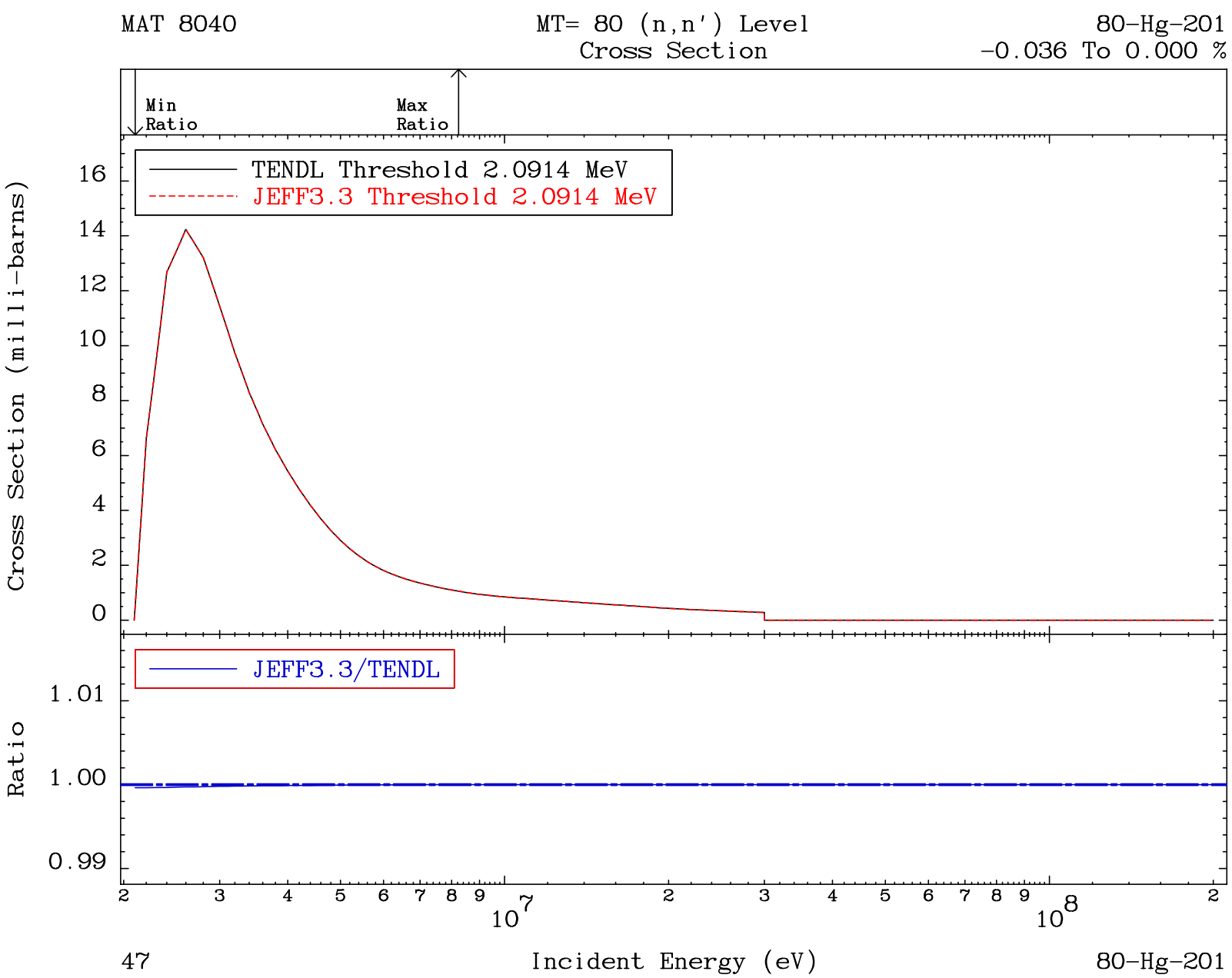

MAT 8040
MT= 75 (n,n') Level
Cross Section
80-Hg-201
-0.036 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.7186 MeV
JEFF3.3 Threshold 1.7186 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
42
Incident Energy (eV)
80-Hg-201

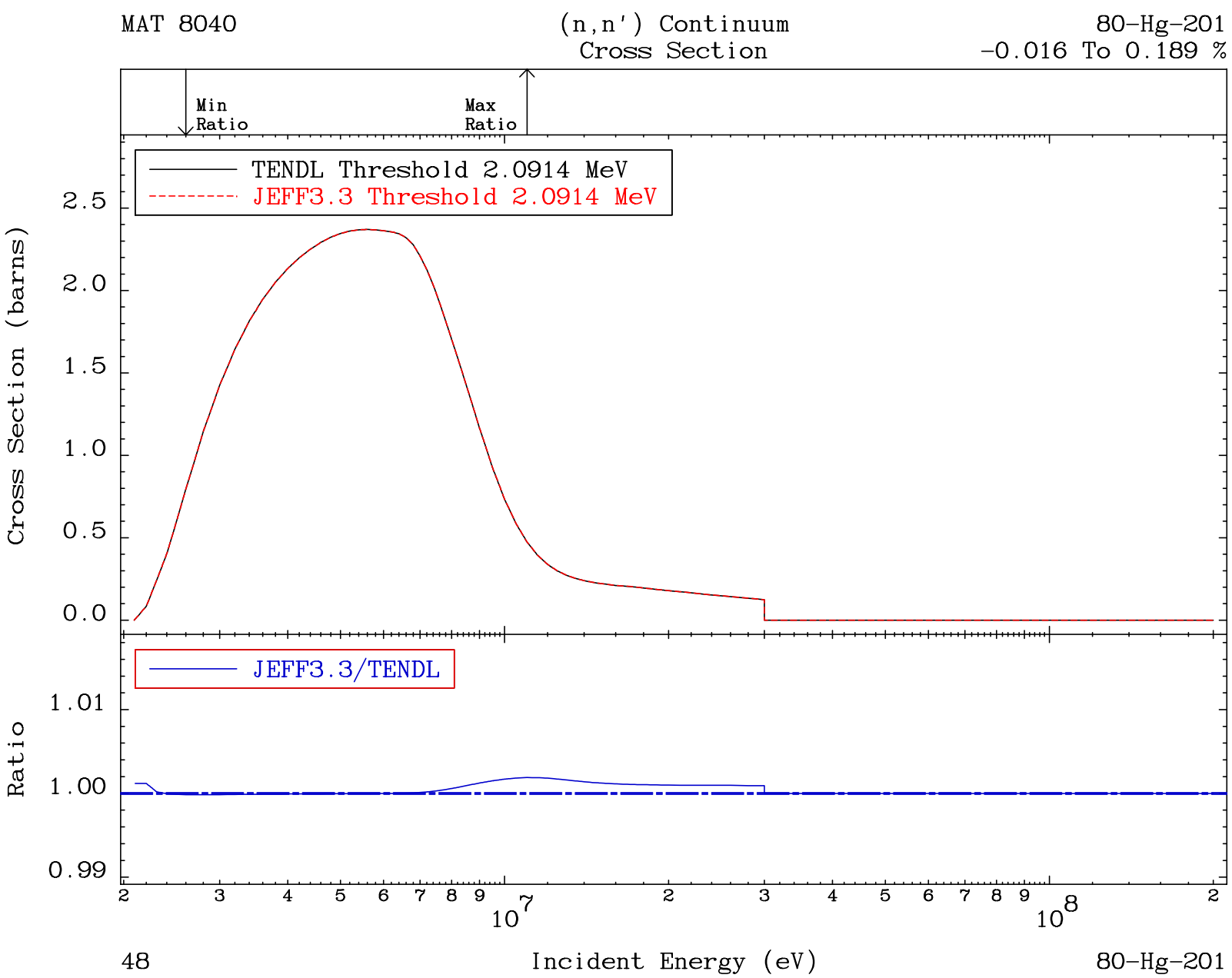

MAT 8040
MT= 76 (n,n') Level
Cross Section
80-Hg-201
-0.029 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.7457 MeV
JEFF3.3 Threshold 1.7457 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
43
Incident Energy (eV)
80-Hg-201

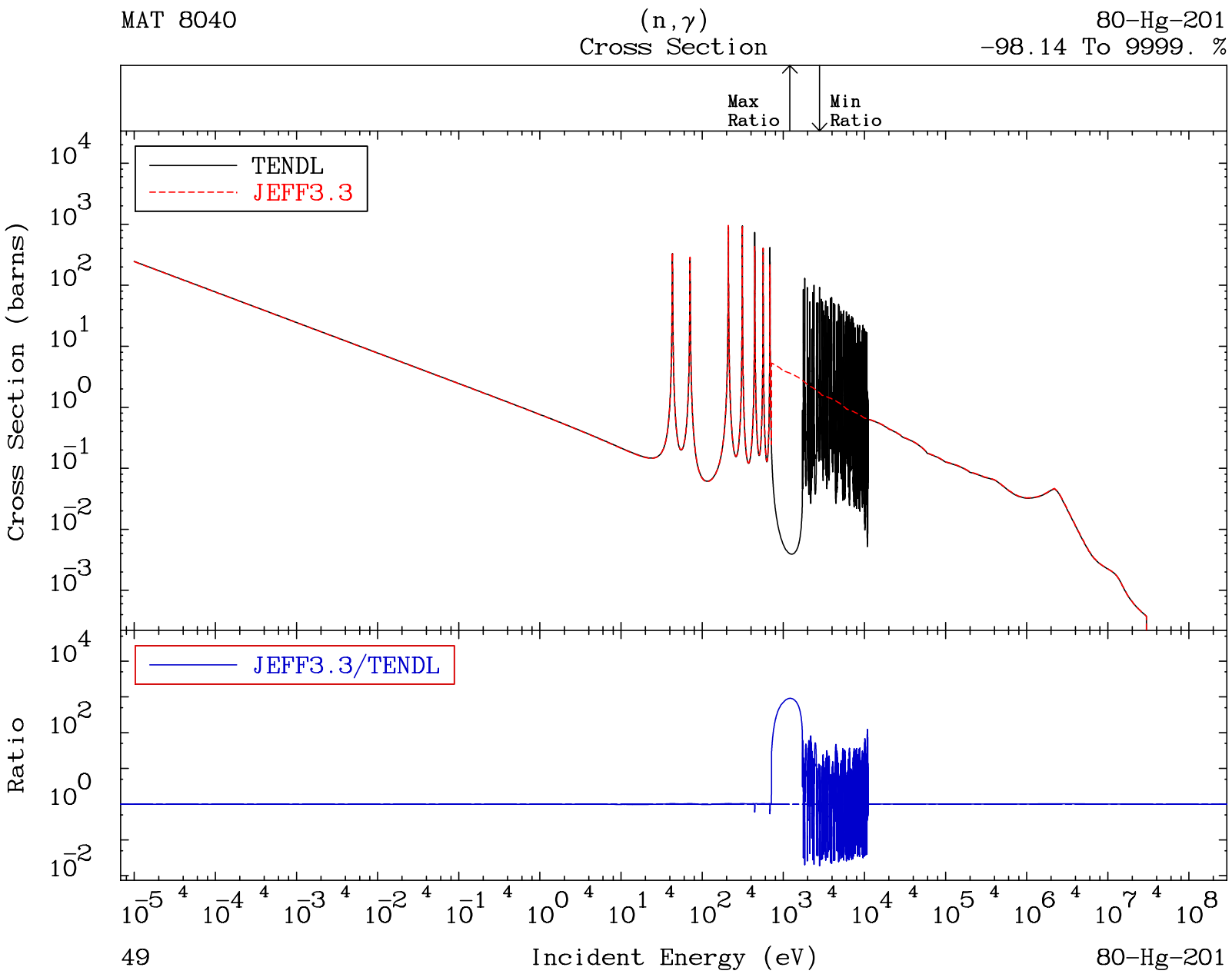

MAT 8040
MT= 77 (n,n') Level
Cross Section
80-Hg-201
-0.036 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.9558 MeV
JEFF3.3 Threshold 1.9558 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
44
Incident Energy (eV)
80-Hg-201

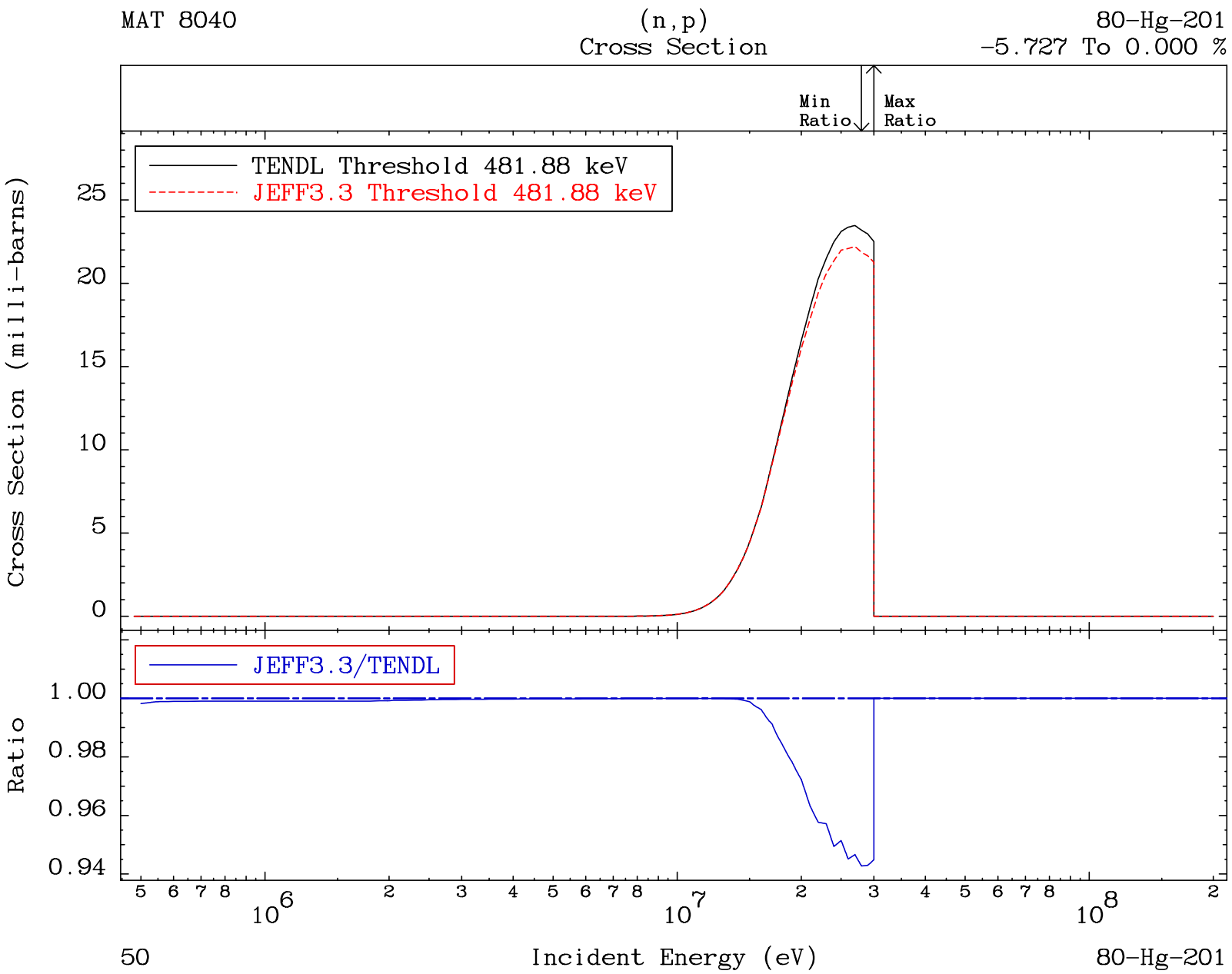

MAT 8040
MT= 78 (n,n') Level
Cross Section
80-Hg-201
-0.031 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.9809 MeV
JEFF3.3 Threshold 1.9809 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
45
Incident Energy (eV)
80-Hg-201

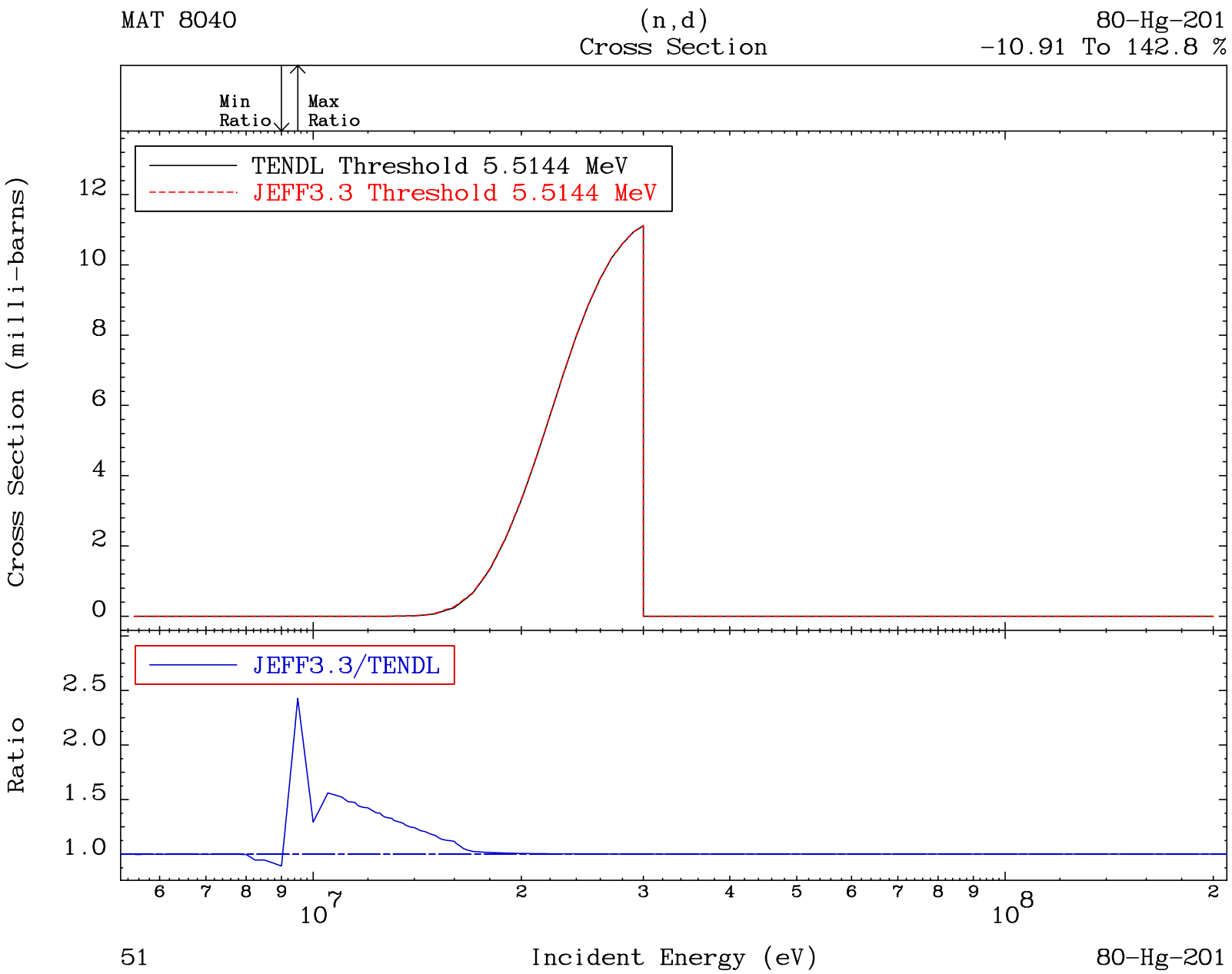

MAT 8040
MT= 79 (n,n') Level
Cross Section
80-Hg-201
-0.048 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.0472 MeV
JEFF3.3 Threshold 2.0472 MeV
Cross Section (milli-barns)
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
46
Incident Energy (eV)
80-Hg-201

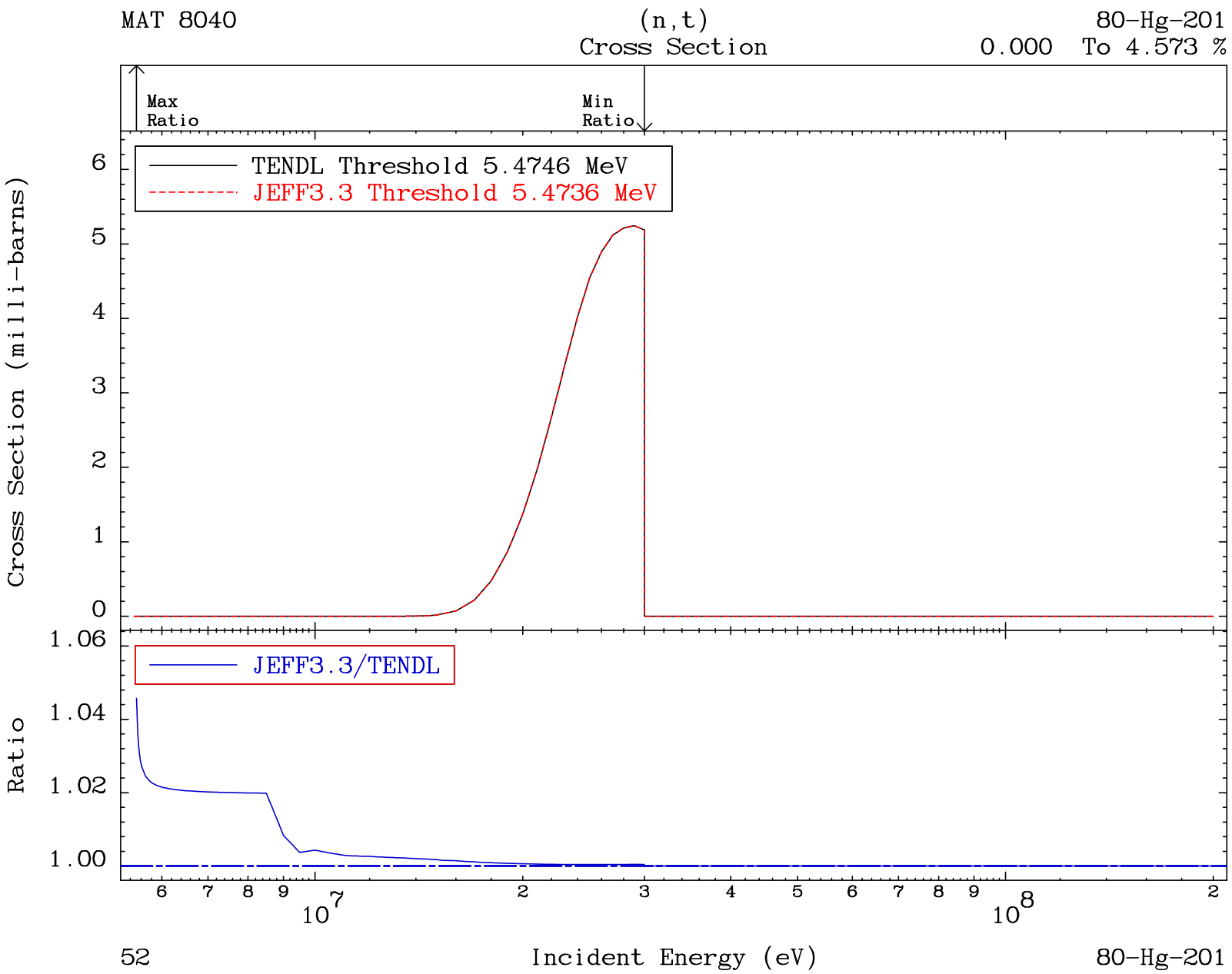

MAT 8040
MT= 80 (n,n') Level
Cross Section
80-Hg-201
-0.036 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.0914 MeV
JEFF3.3 Threshold 2.0914 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
80-Hg-201

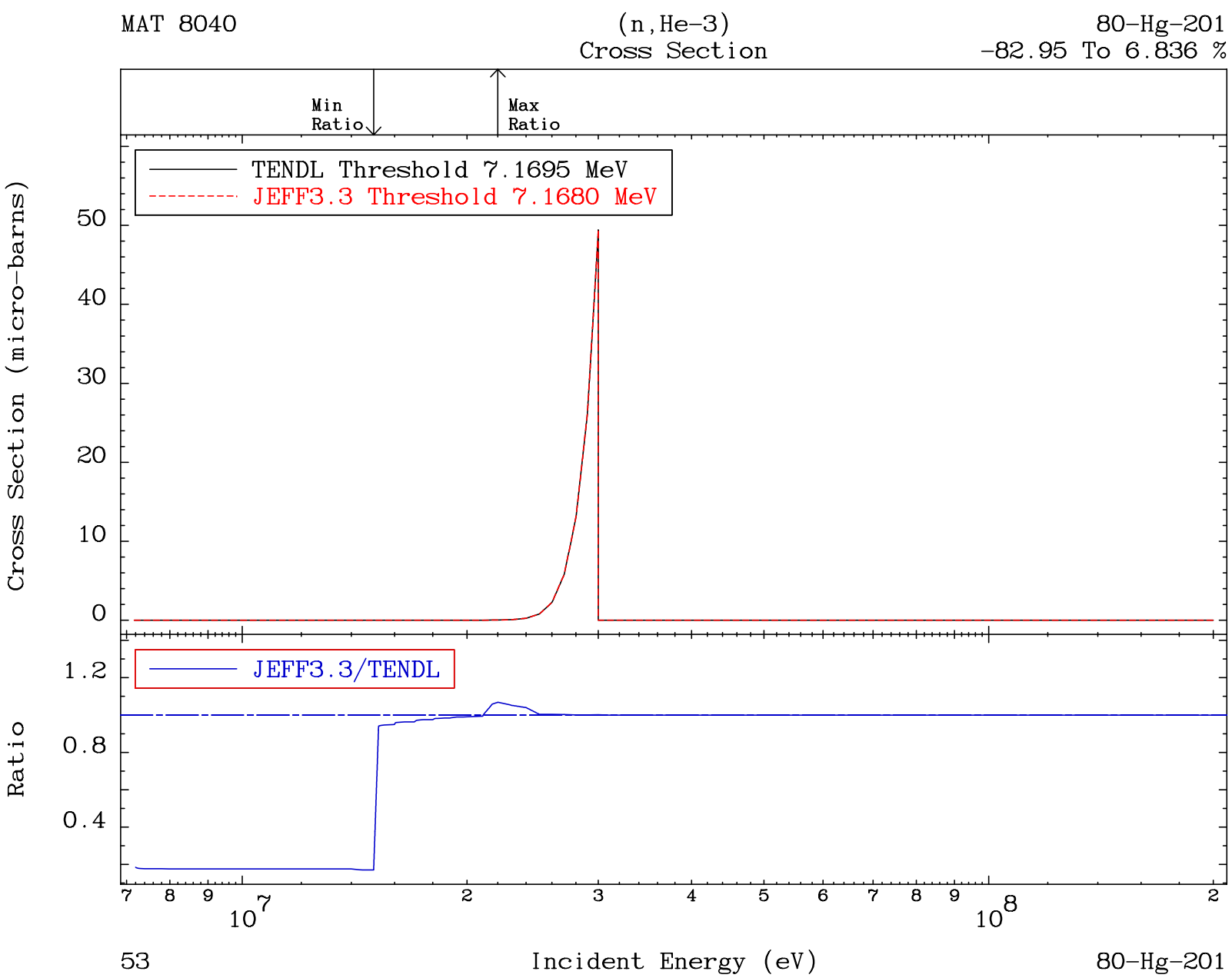

MAT 8040
(n,n') Continuum
Cross Section
80-Hg-201
-0.016 To 0.189 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.0914 MeV
JEFF3.3 Threshold 2.0914 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
80-Hg-201

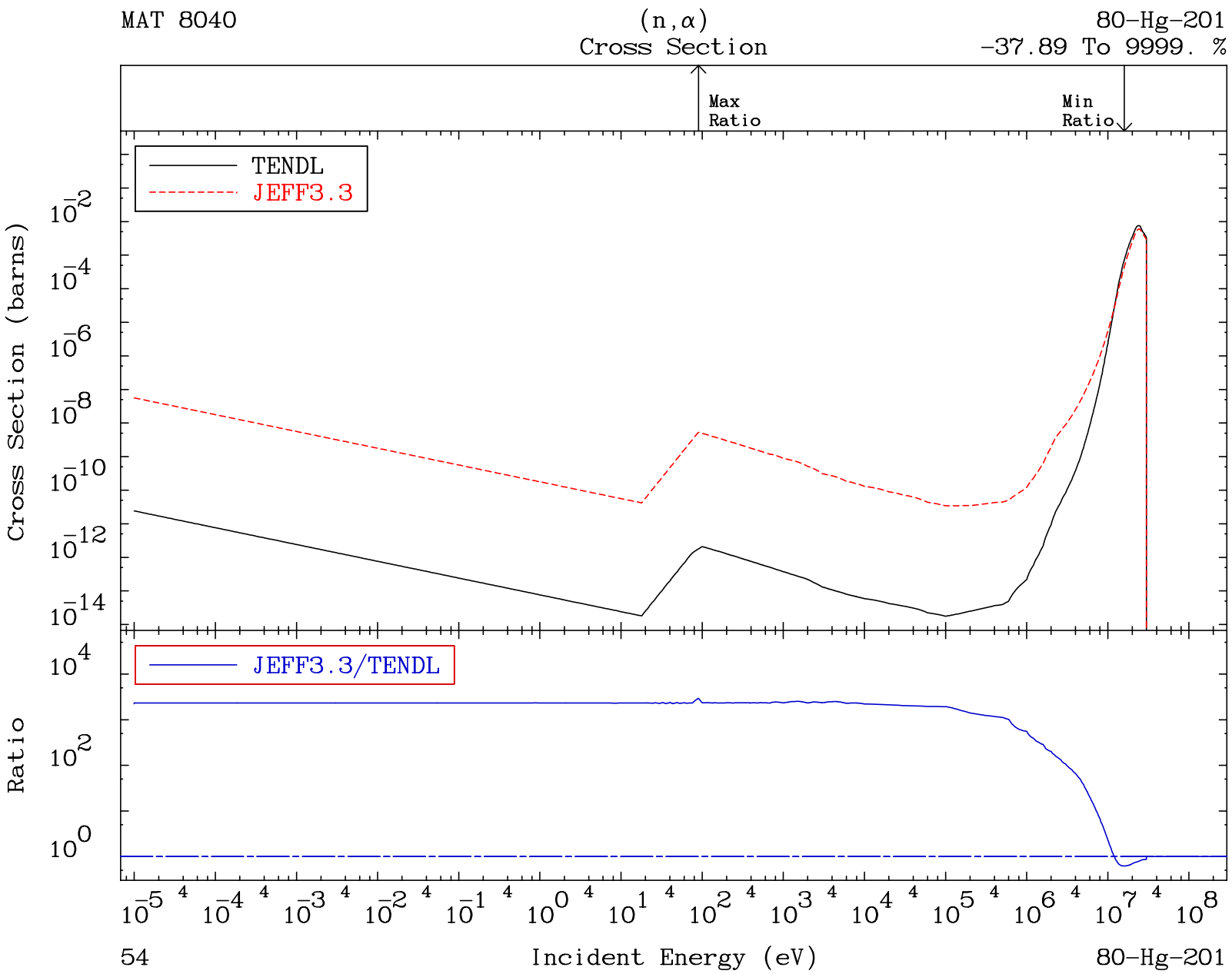

MAT 8040
(n,γ)
Cross Section
80-Hg-201
-98.14 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
49
80-Hg-201

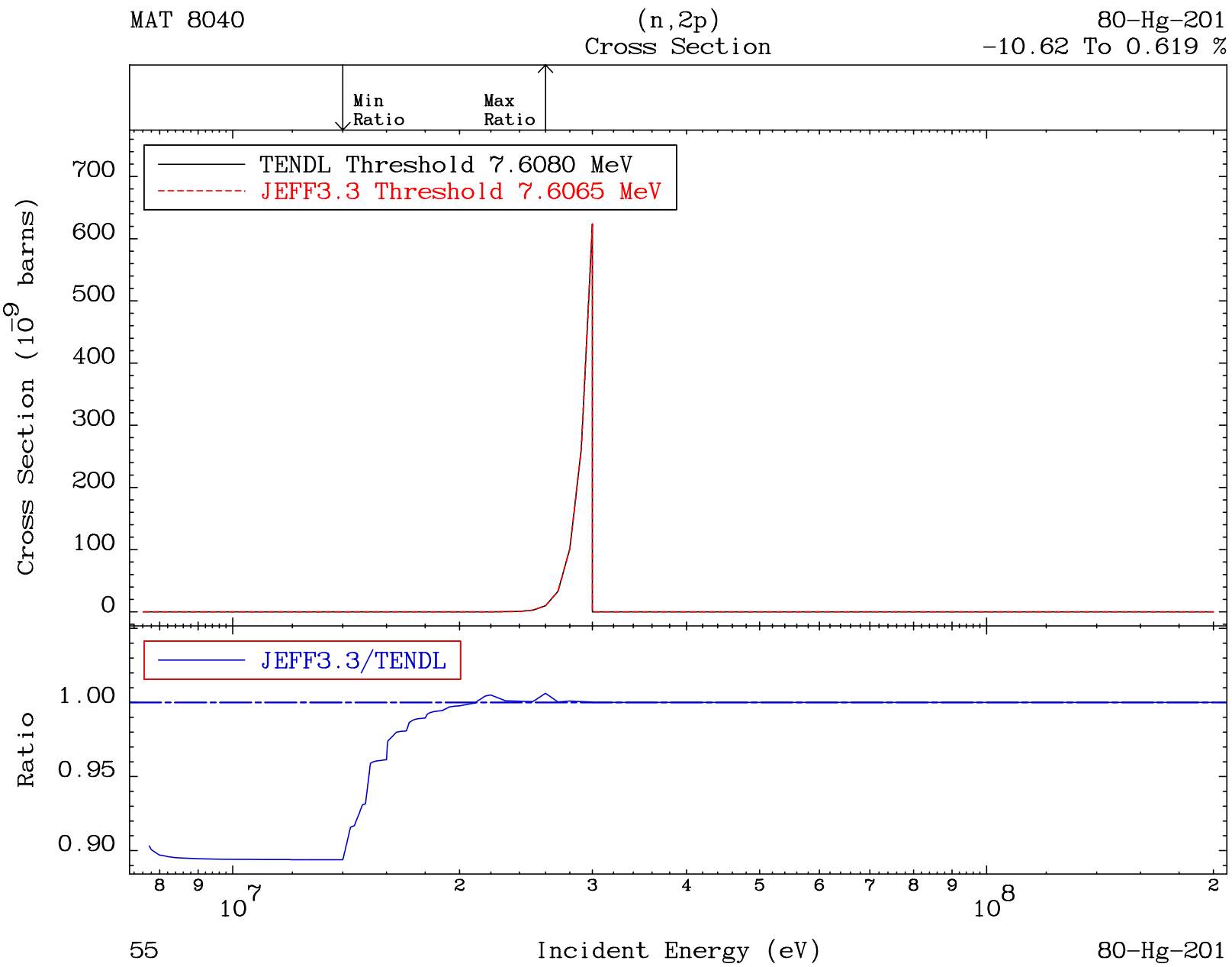

MAT 8040
(n,p)
Cross Section
80-Hg-201
-5.727 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 481.88 keV
JEFF3.3 Threshold 481.88 keV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.00
0.98
0.96
0.94
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
50
Incident Energy (eV)
80-Hg-201

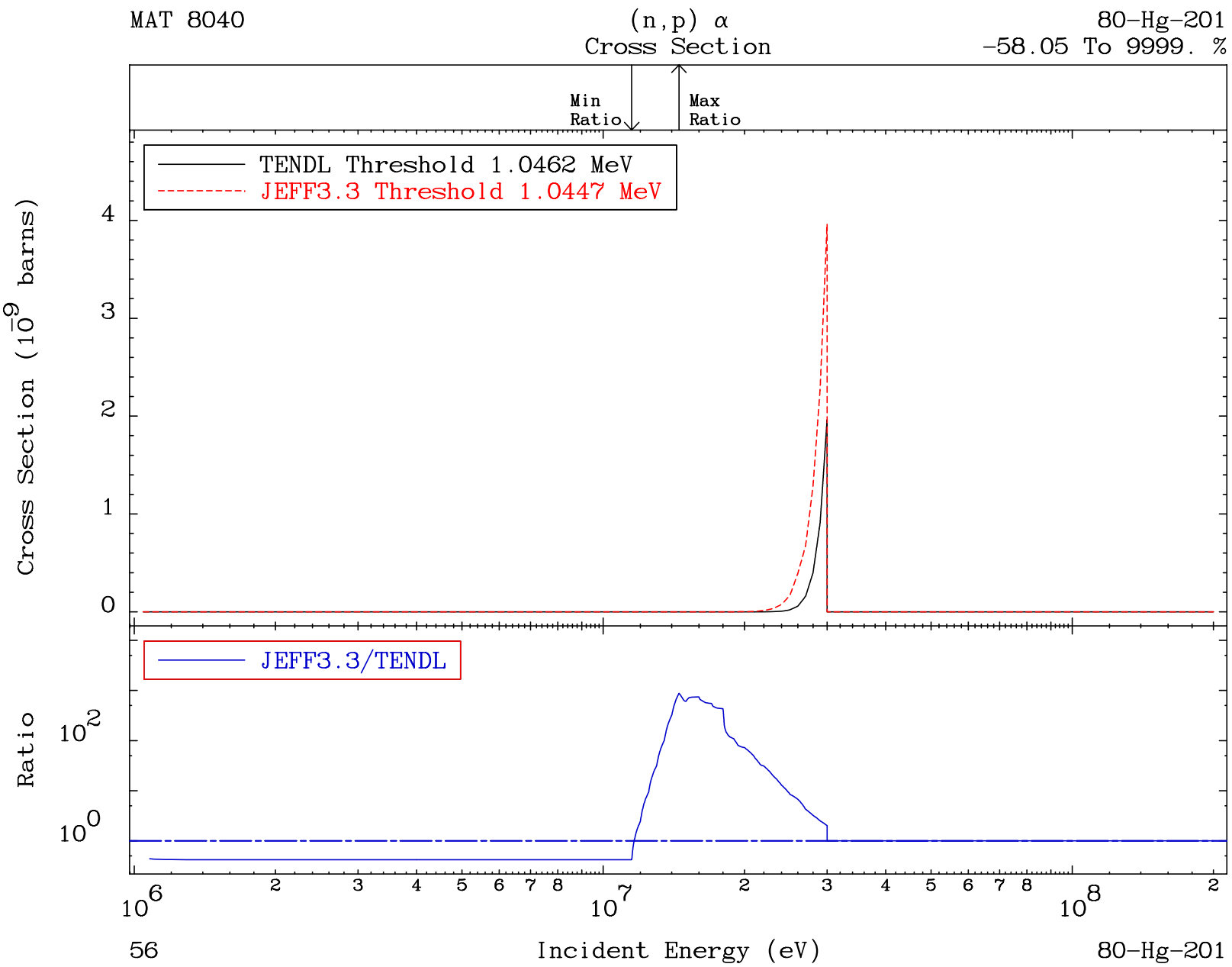

MAT 8040
(n,d)
Cross Section
80-Hg-201
-10.91 To 142.8 %
Min Ratio
Max Ratio
TENDL Threshold 5.5144 MeV
JEFF3.3 Threshold 5.5144 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
JEFF3.3/TENDL
Ratio
1.0
1.5
2.0
2.5
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
80-Hg-201

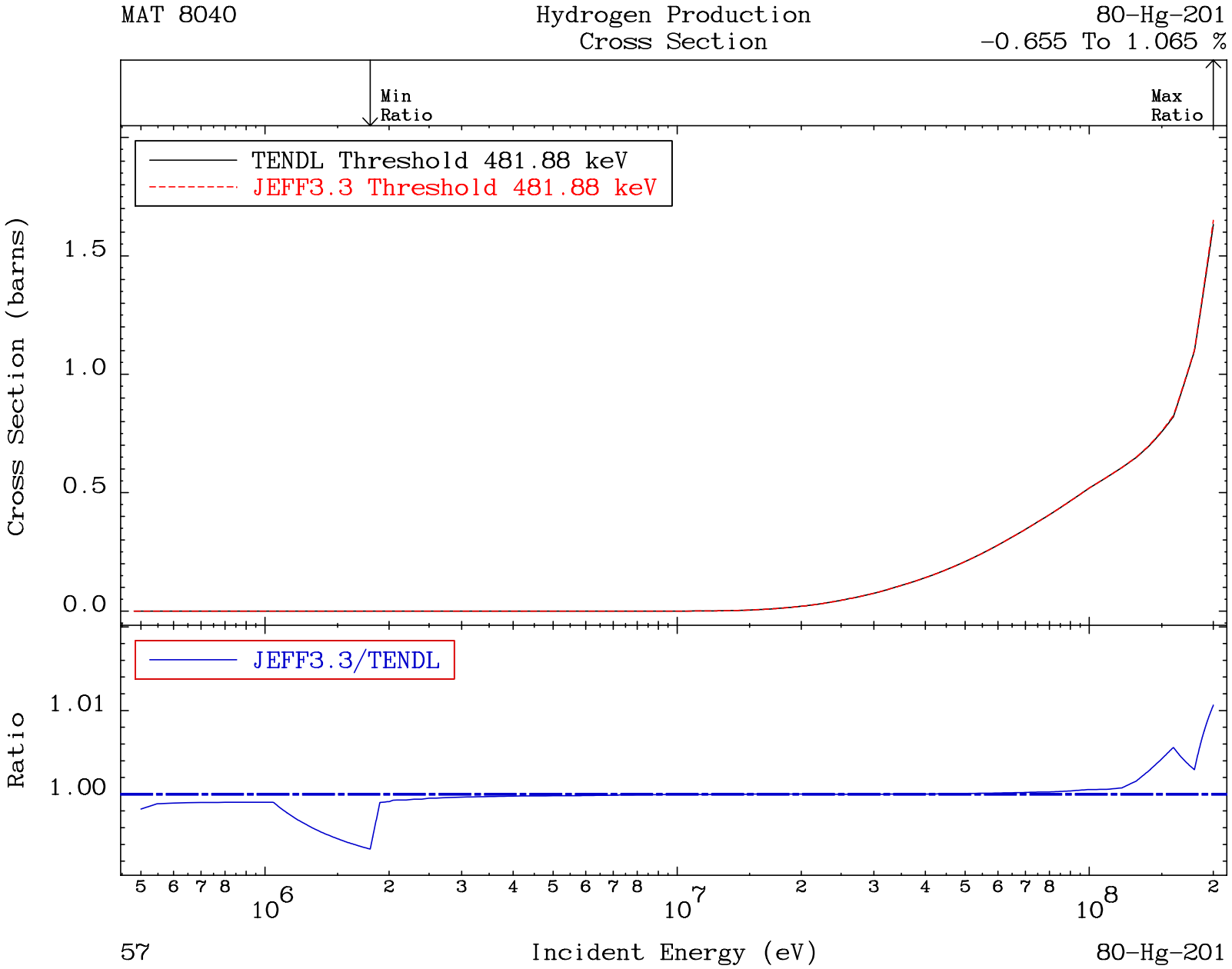

MAT 8040
(n,t)
Cross Section
80-Hg-201
0.000 To 4.573 %
Max Ratio
Min Ratio
TENDL Threshold 5.4746 MeV
JEFF3.3 Threshold 5.4736 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
1.00
1.02
1.04
1.06
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
80-Hg-201

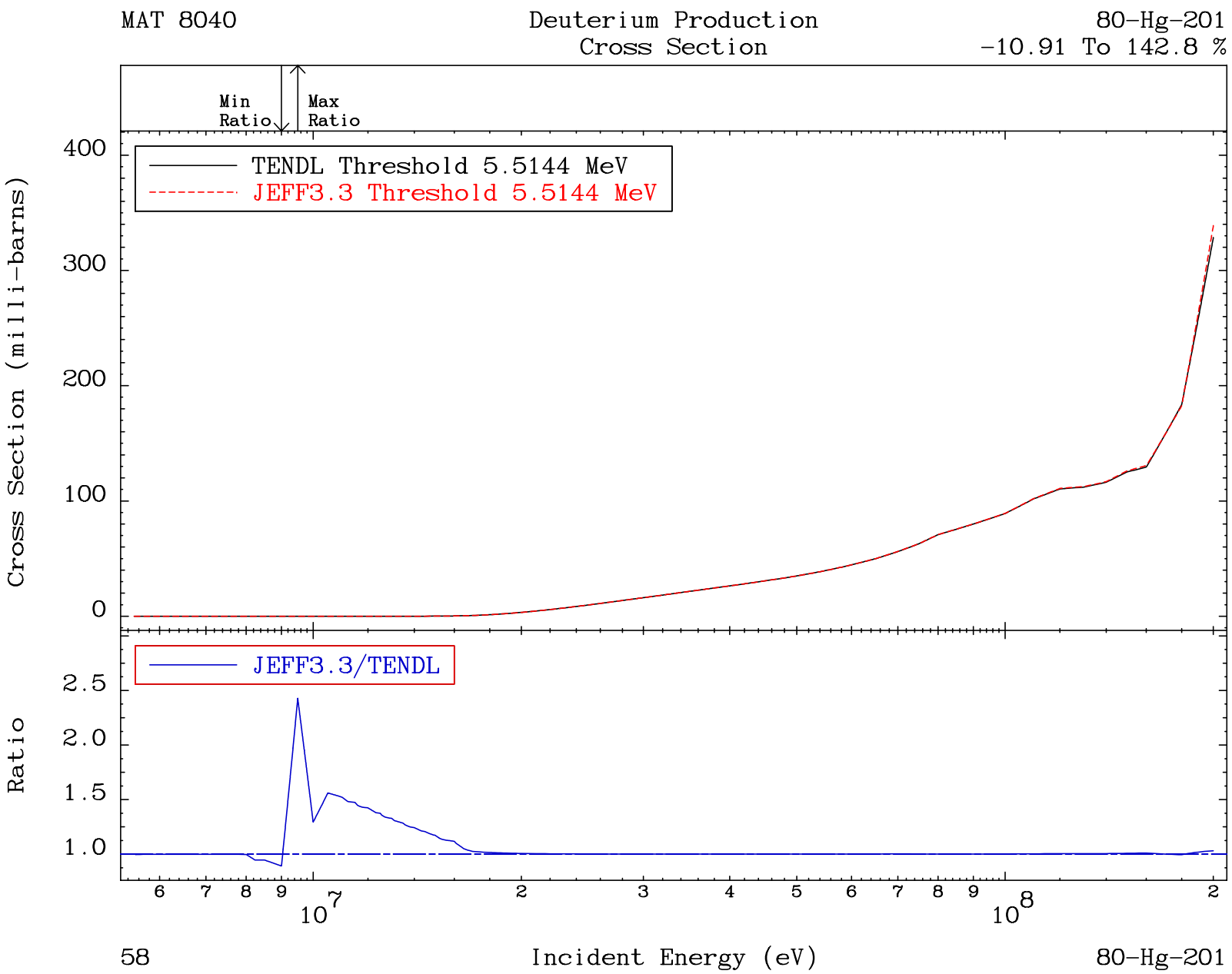

MAT 8040
(n,He-3)
Cross Section
80-Hg-201
-82.95 To 6.836 %
Min Ratio
Max Ratio
TENDL Threshold 7.1695 MeV
JEFF3.3 Threshold 7.1680 MeV
Cross Section (micro-barns)
0
10
20
30
40
50
JEFF3.3/TENDL
Ratio
0.4
0.8
1.2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
80-Hg-201

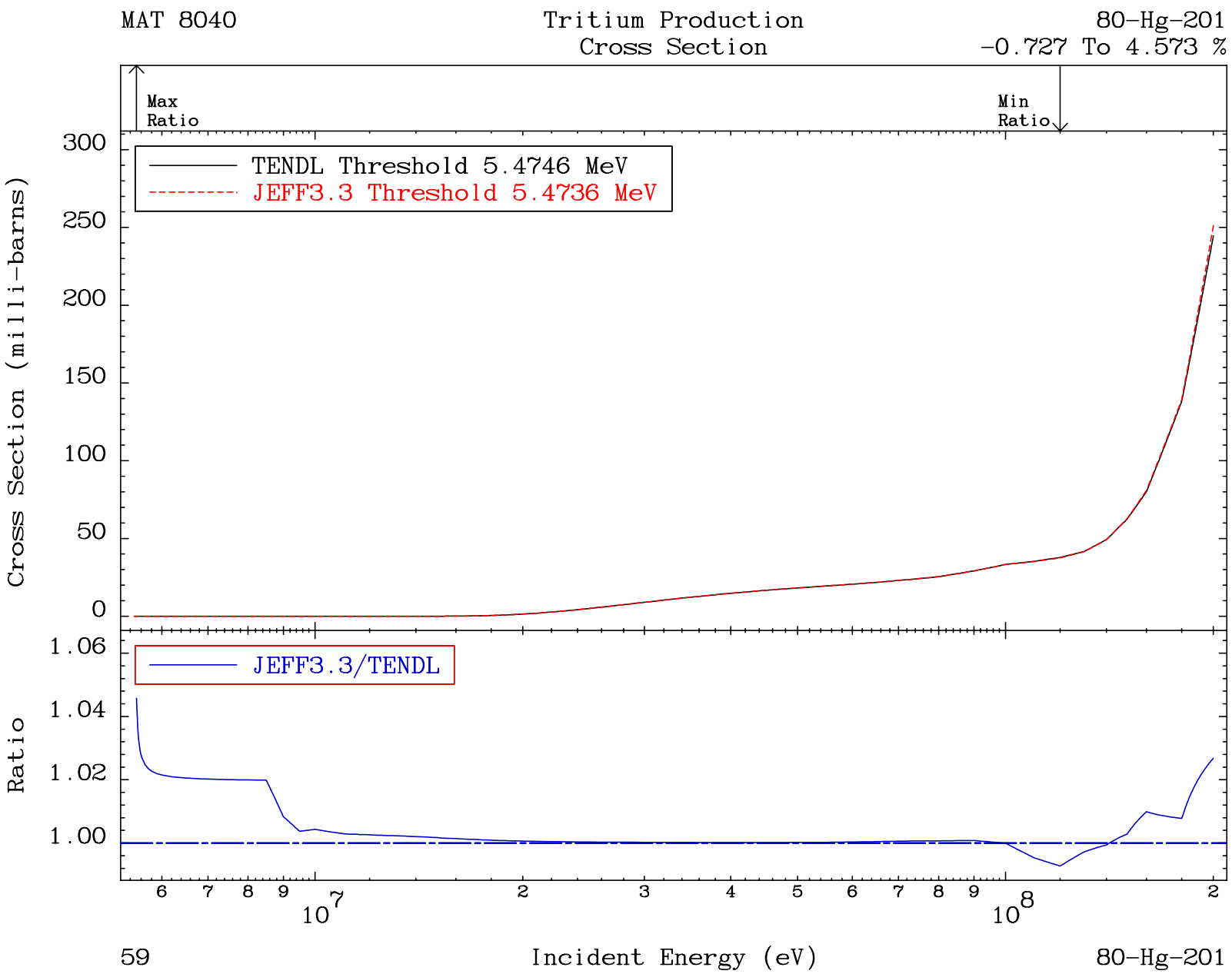

MAT 8040
(n,α)
Cross Section
80-Hg-201
-37.89 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
54
80-Hg-201

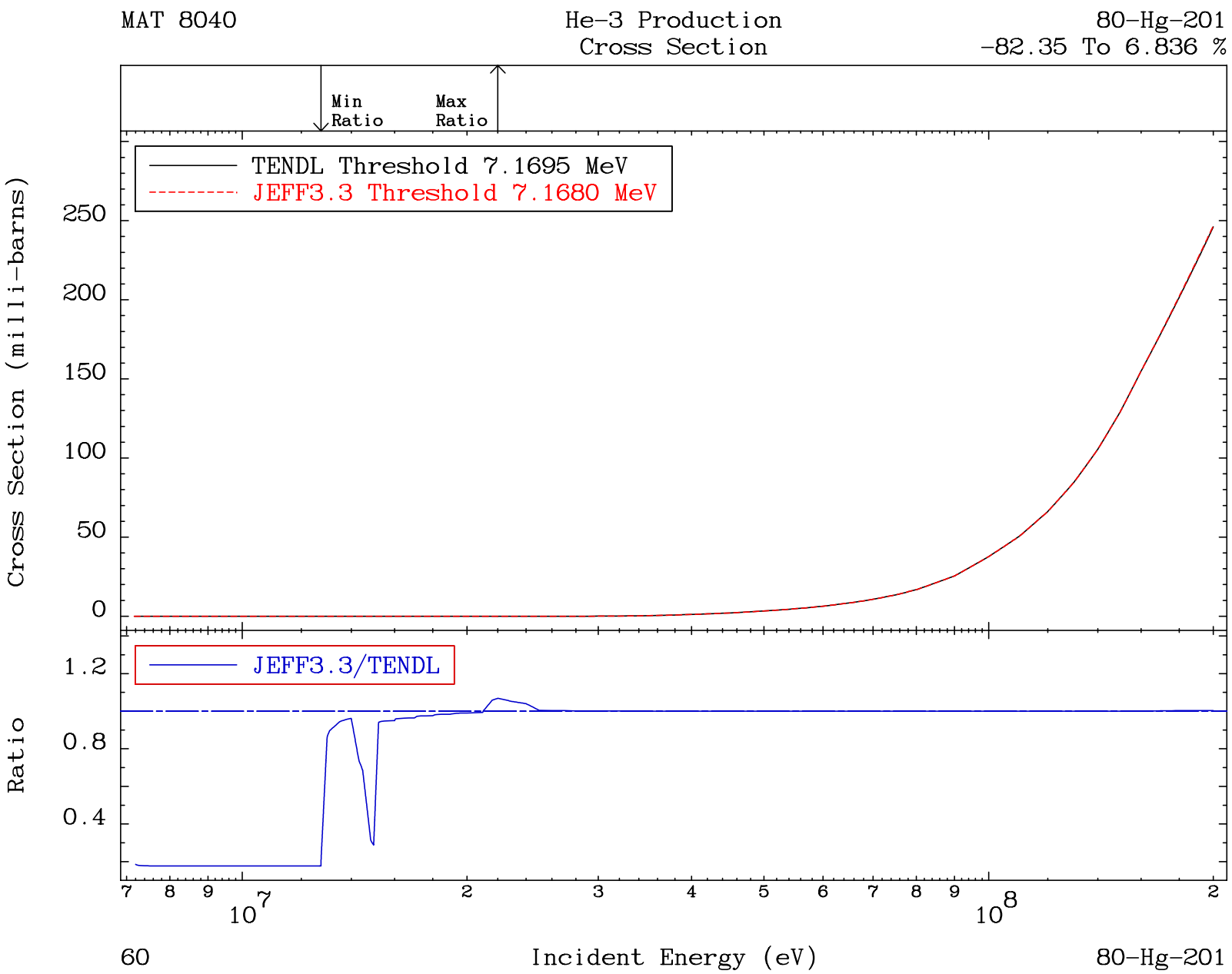

MAT 8040
(n,2p)
Cross Section
80-Hg-201
-10.62 To 0.619 %
Min Ratio
Max Ratio
TENDL Threshold 7.6080 MeV
JEFF3.3 Threshold 7.6065 MeV
Cross Section (10^{-9} barns)
700
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.00
0.95
0.90
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
55
Incident Energy (eV)
80-Hg-201

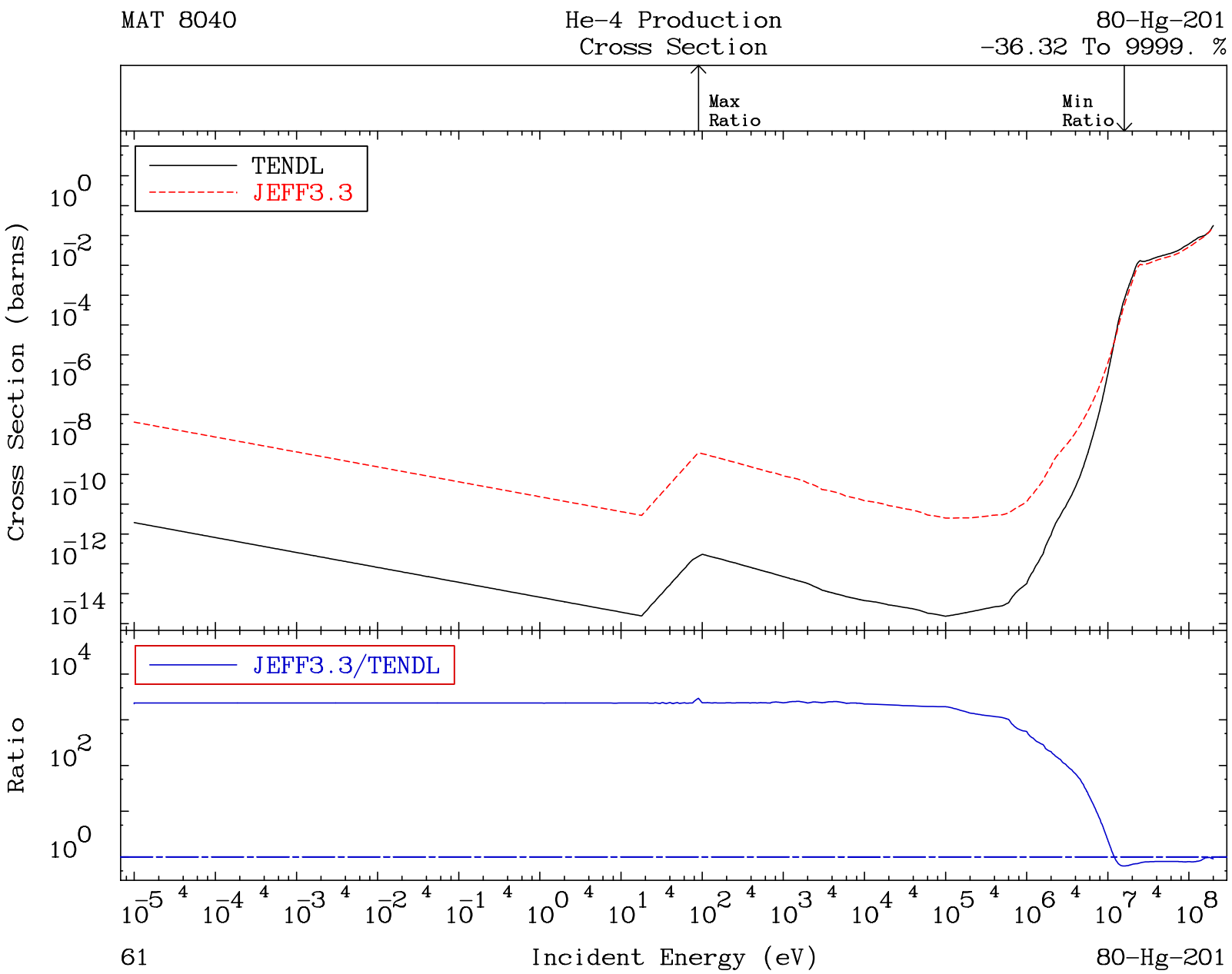

MAT 8040
(n,p) α
Cross Section
80-Hg-201
-58.05 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.0462 MeV
JEFF3.3 Threshold 1.0447 MeV
Cross Section (10^-9 barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
10^2
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
56
Incident Energy (eV)
80-Hg-201

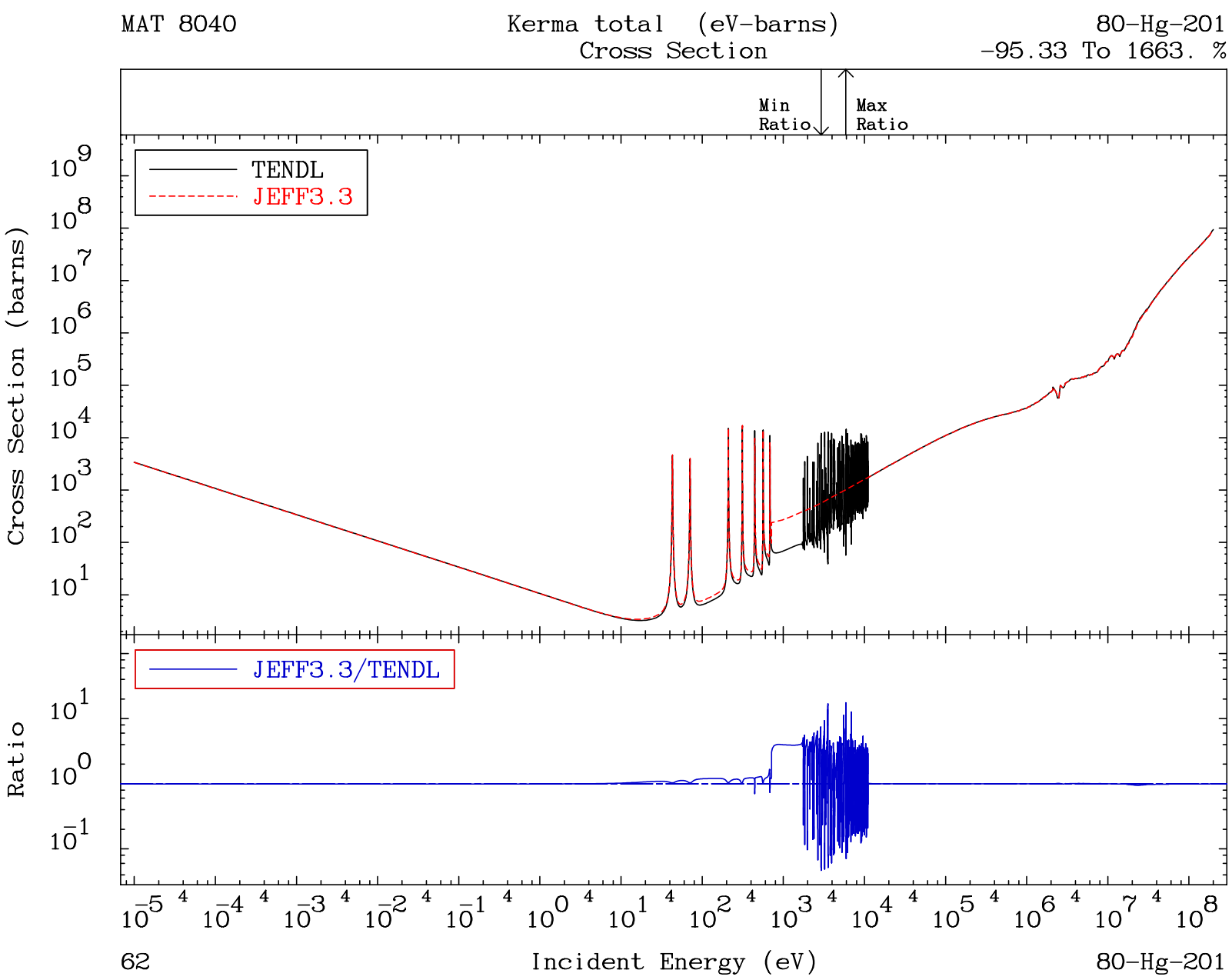

MAT 8040
Hydrogen Production
Cross Section
80-Hg-201
-0.655 To 1.065 %
Min
Ratio
Max
Ratio
TENDL Threshold 481.88 keV
JEFF3.3 Threshold 481.88 keV
Cross Section (barns)
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
57
Incident Energy (eV)
80-Hg-201

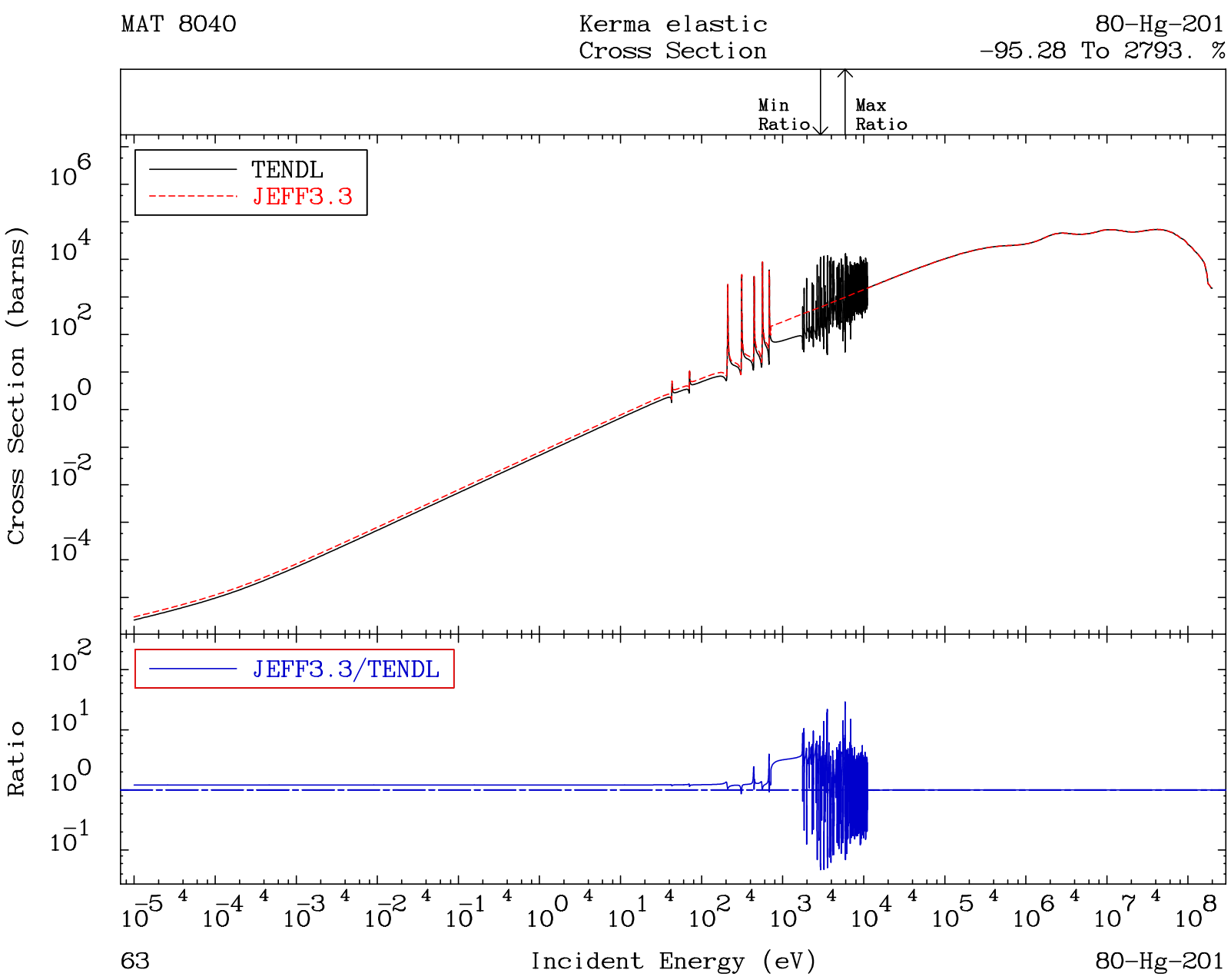

MAT 8040
Deuterium Production
Cross Section
80-Hg-201
-10.91 To 142.8 %
Min Ratio
Max Ratio
TENDL Threshold 5.5144 MeV
JEFF3.3 Threshold 5.5144 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
2.5
2.0
1.5
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
58
Incident Energy (eV)
80-Hg-201

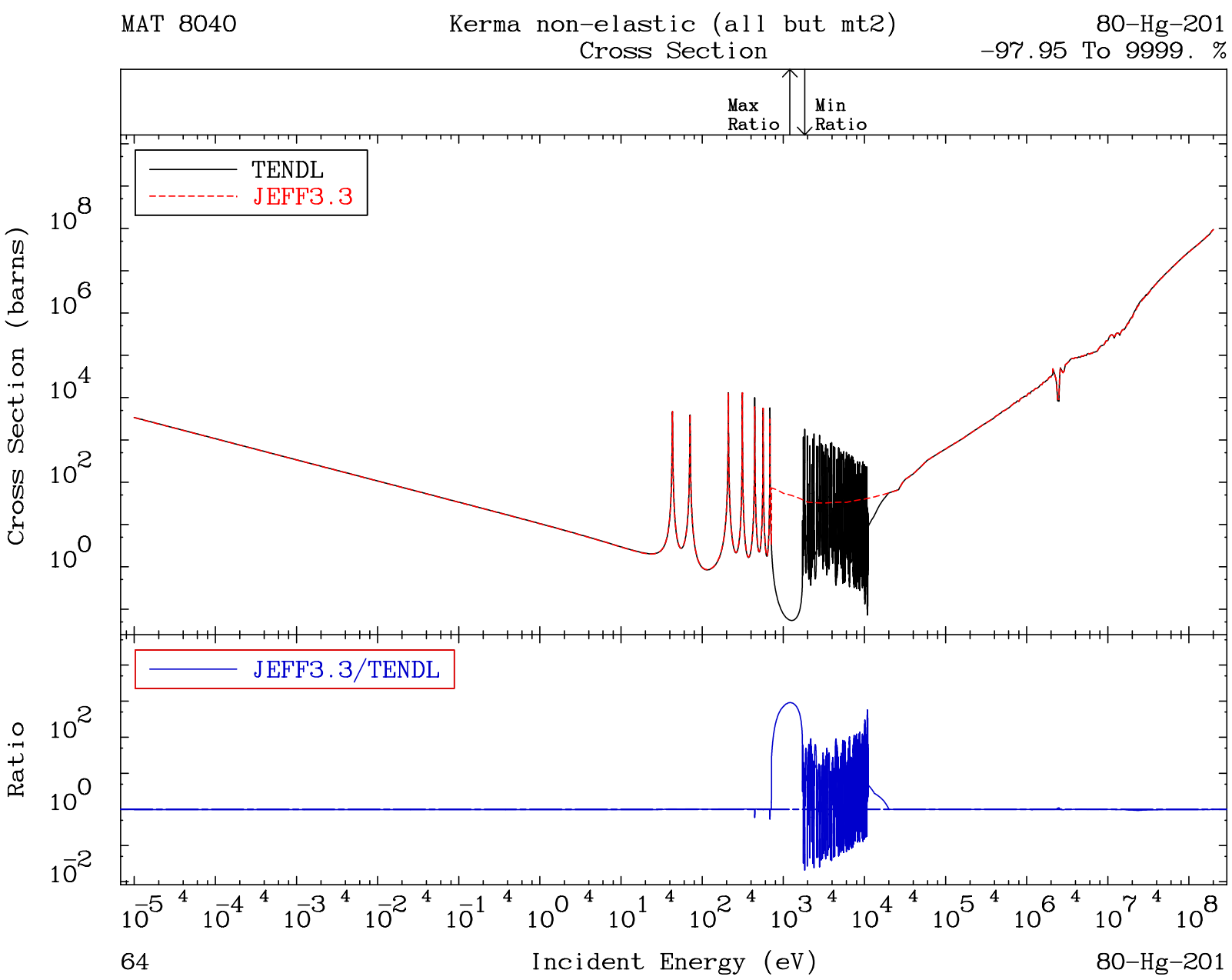

MAT 8040
Tritium Production
Cross Section
80-Hg-201
-0.727 To 4.573 %
Max
Ratio
Min
Ratio
TENDL Threshold 5.4746 MeV
JEFF3.3 Threshold 5.4736 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
59
Incident Energy (eV)
80-Hg-201

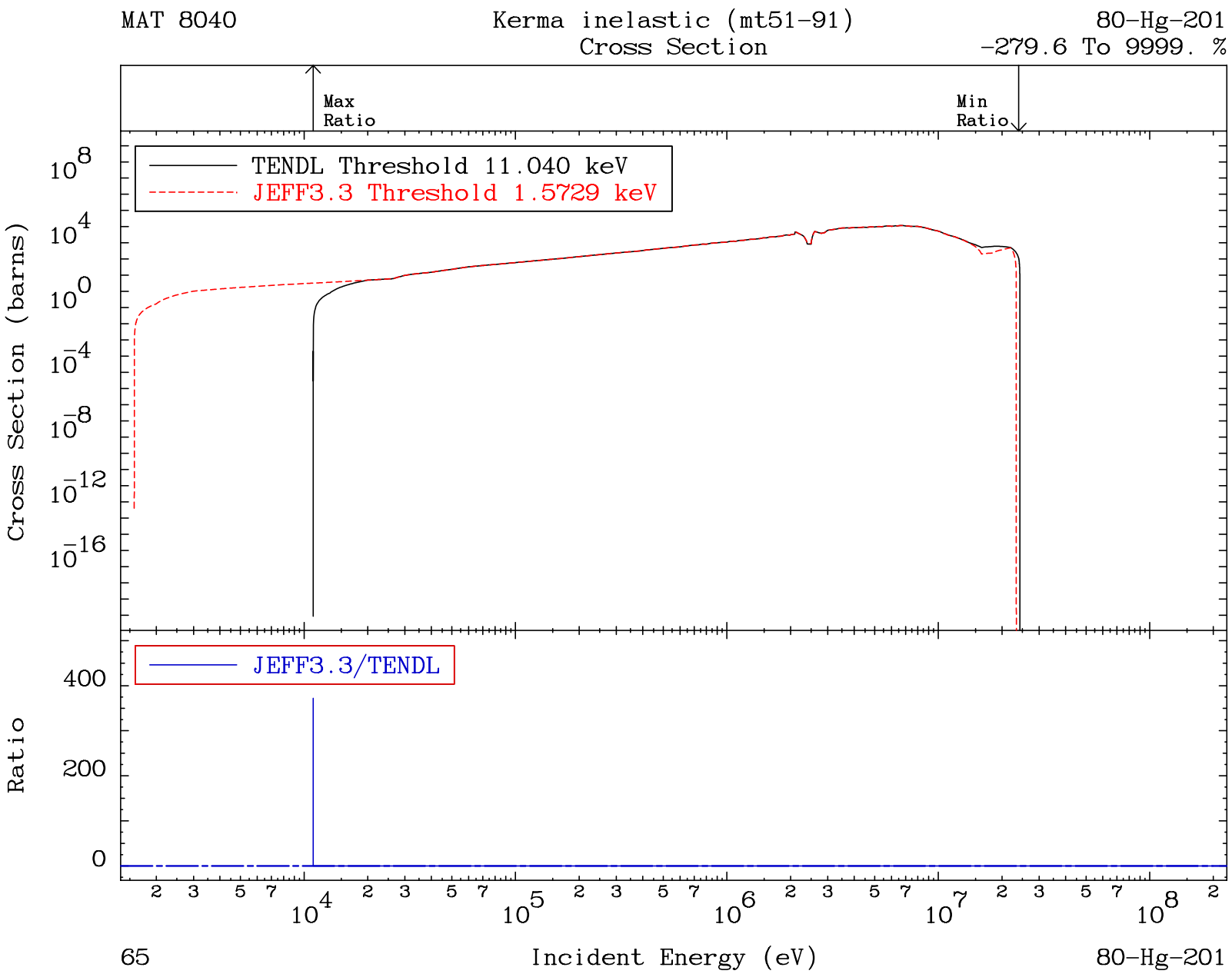

MAT 8040
He-3 Production
Cross Section
80-Hg-201
-82.35 To 6.836 %
Min Ratio
Max Ratio
TENDL Threshold 7.1695 MeV
JEFF3.3 Threshold 7.1680 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
60
Incident Energy (eV)
80-Hg-201

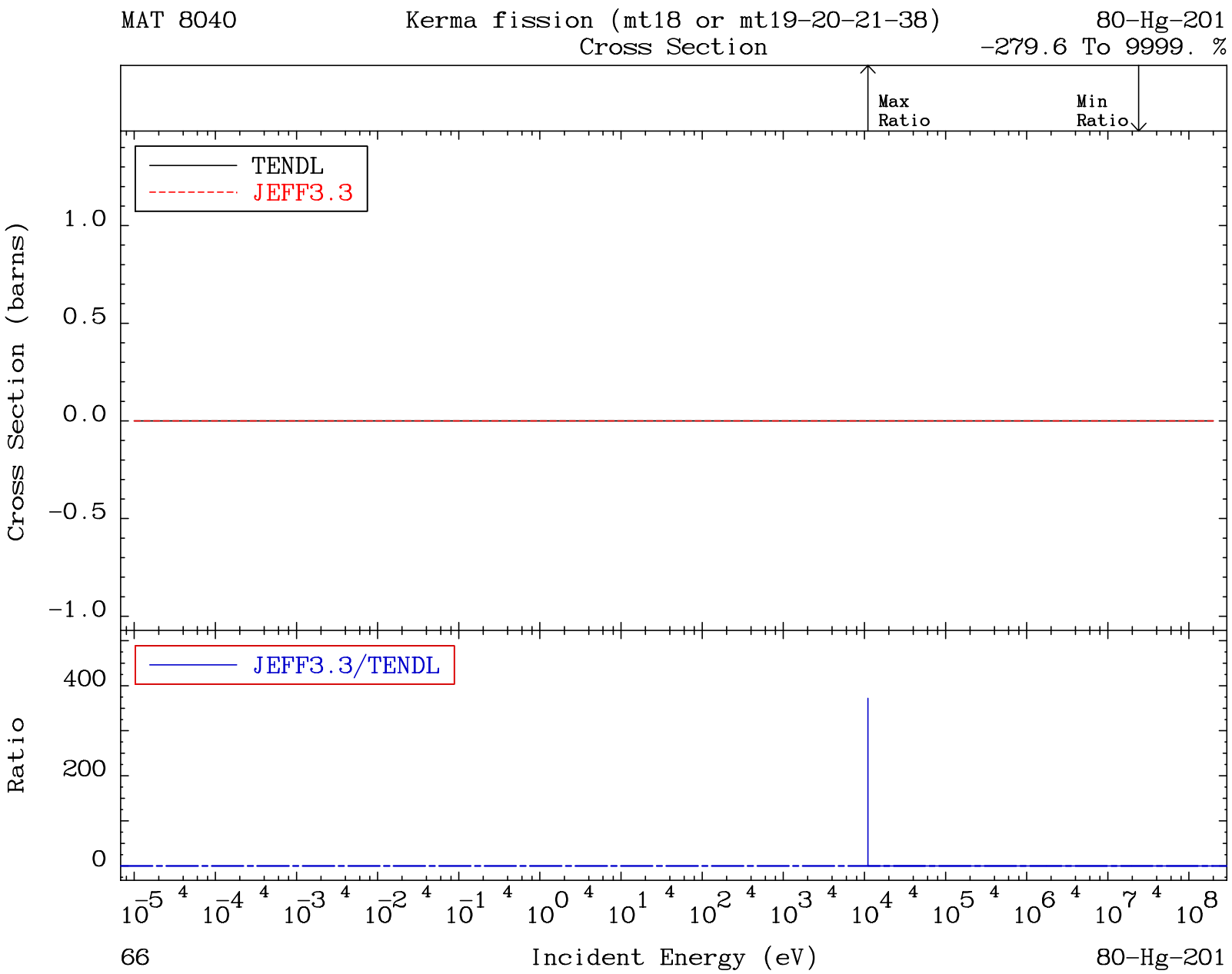

MAT 8040
He-4 Production
Cross Section
80-Hg-201
-36.32 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
61
80-Hg-201

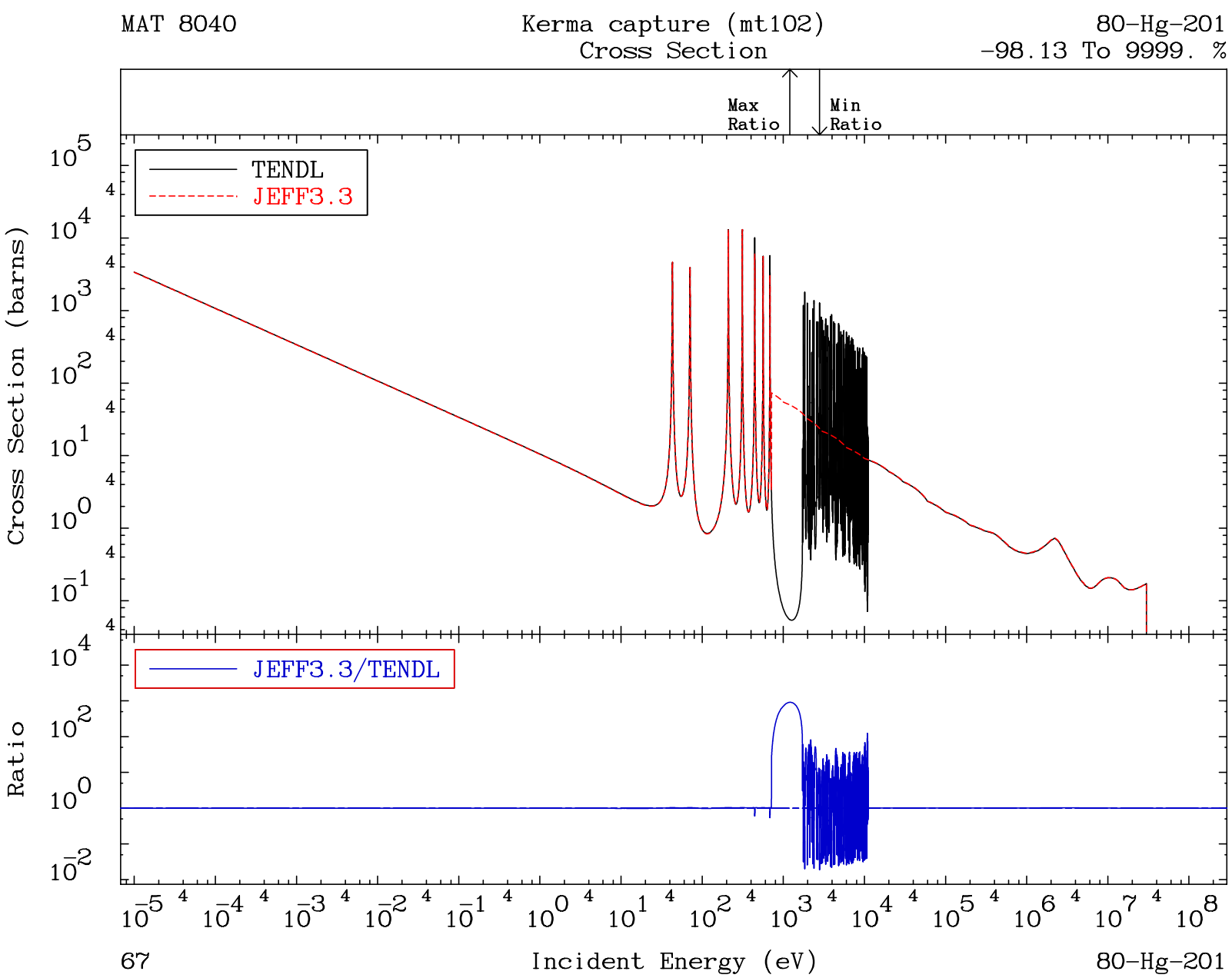

MAT 8040
Kerma total (eV-barns)
Cross Section
80-Hg-201
-95.33 To 1663. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
62
80-Hg-201

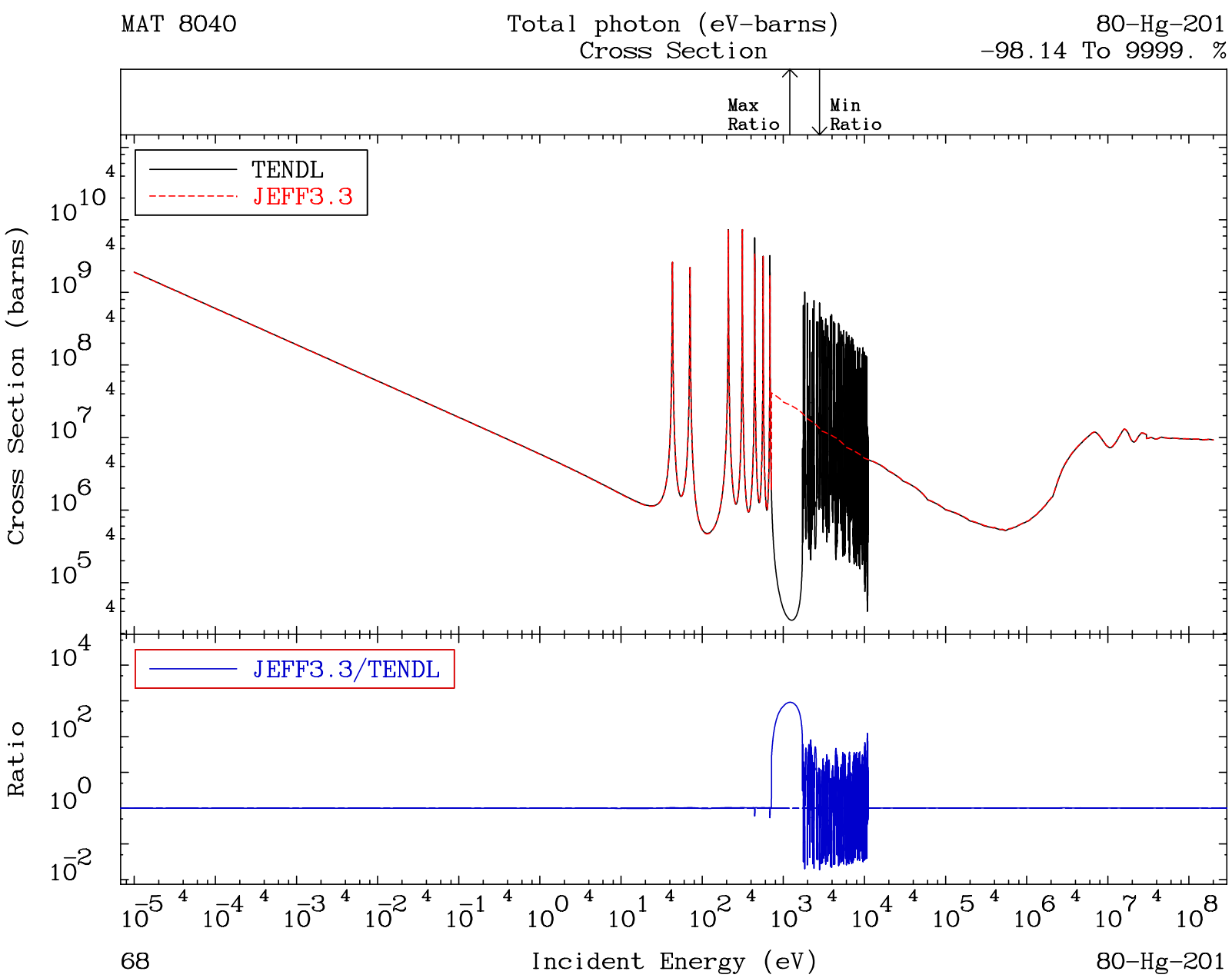

MAT 8040
Kerma elastic
Cross Section
80-Hg-201
-95.28 To 2793. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
63
80-Hg-201

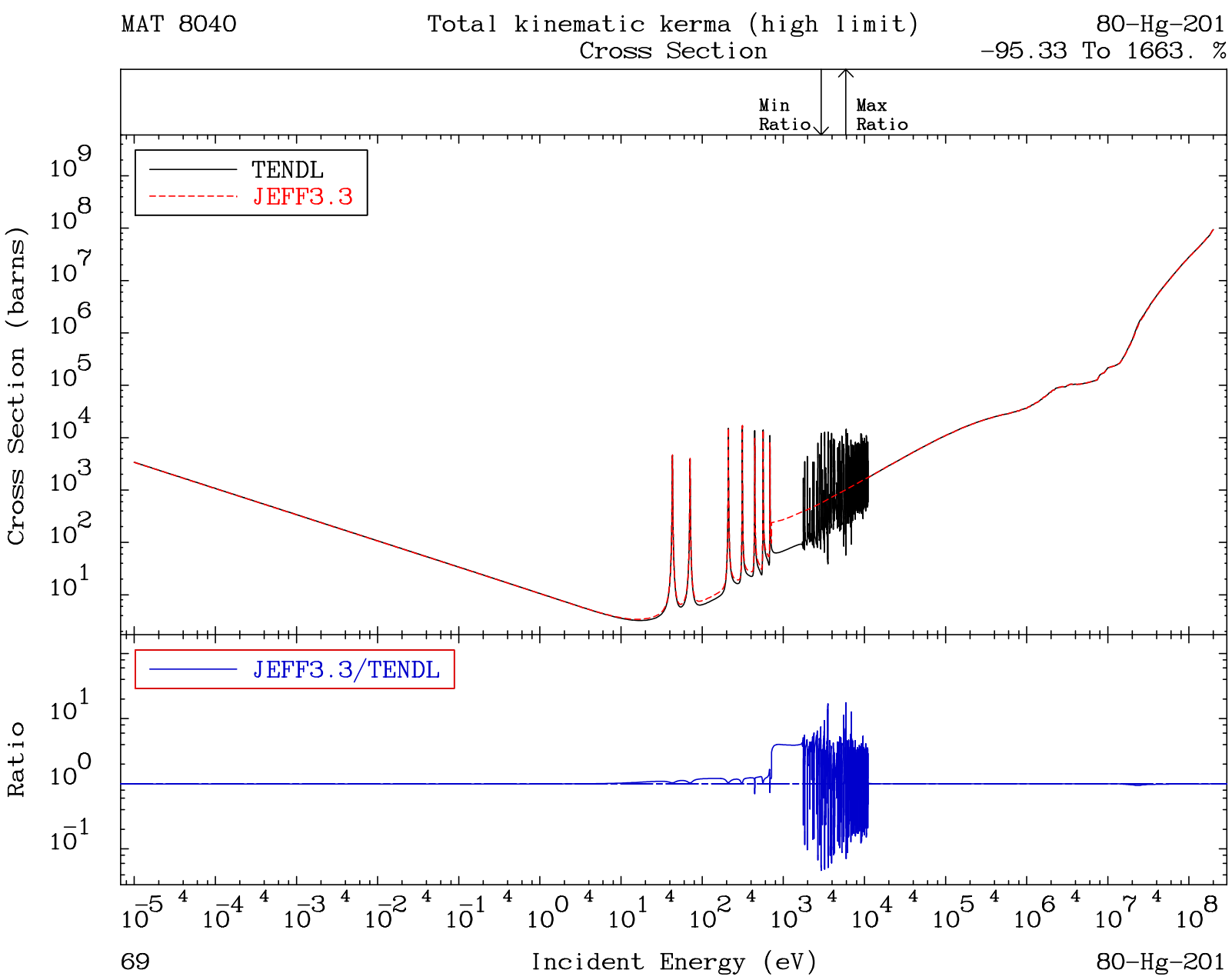

MAT 8040
Kerma non-elastic (all but mt2)
Cross Section
80-Hg-201
-97.95 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
80-Hg-201

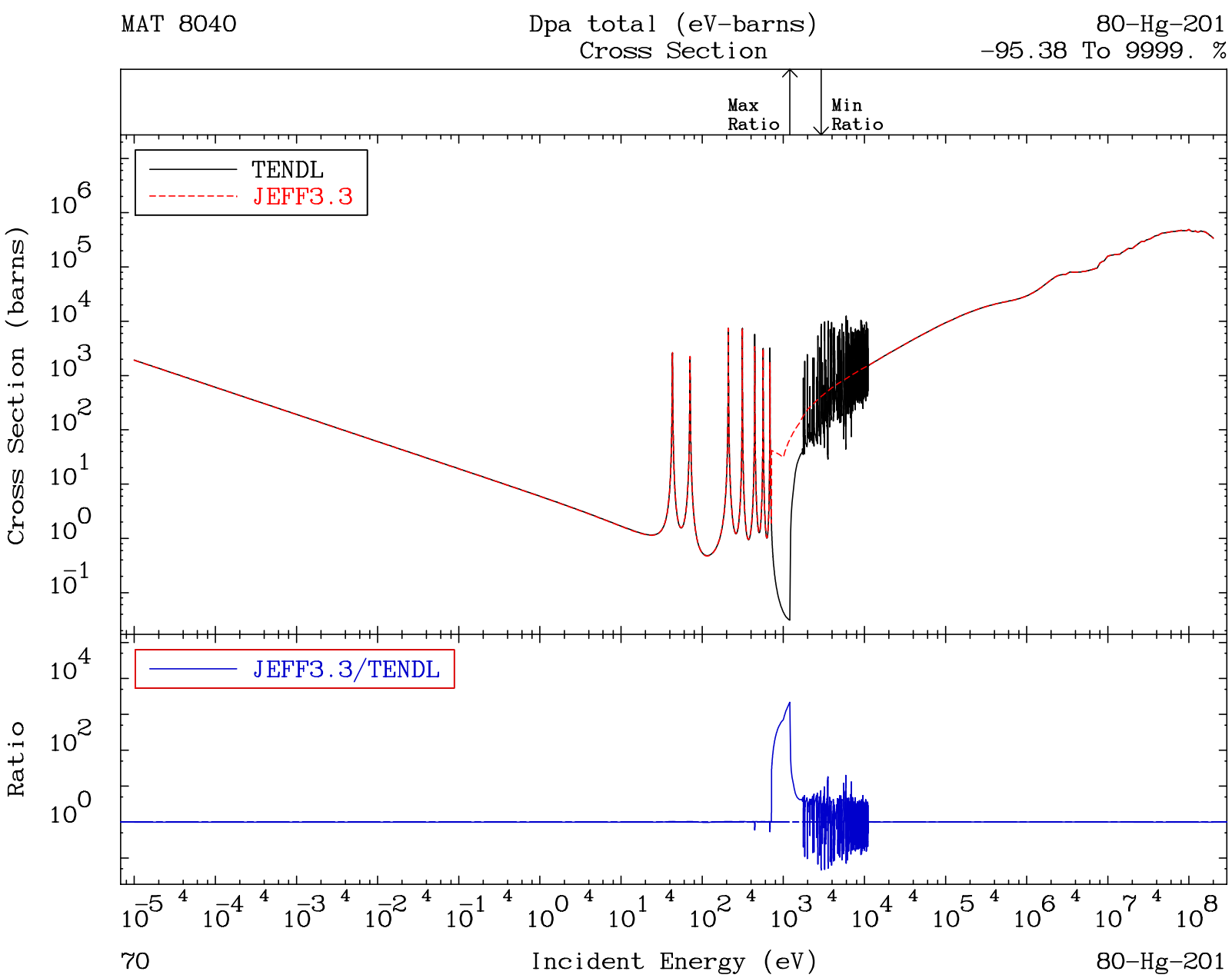

MAT 8040
Kerma inelastic (mt51-91)
Cross Section
80-Hg-201
-279.6 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.040 keV
JEFF3.3 Threshold 1.5729 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
80-Hg-201

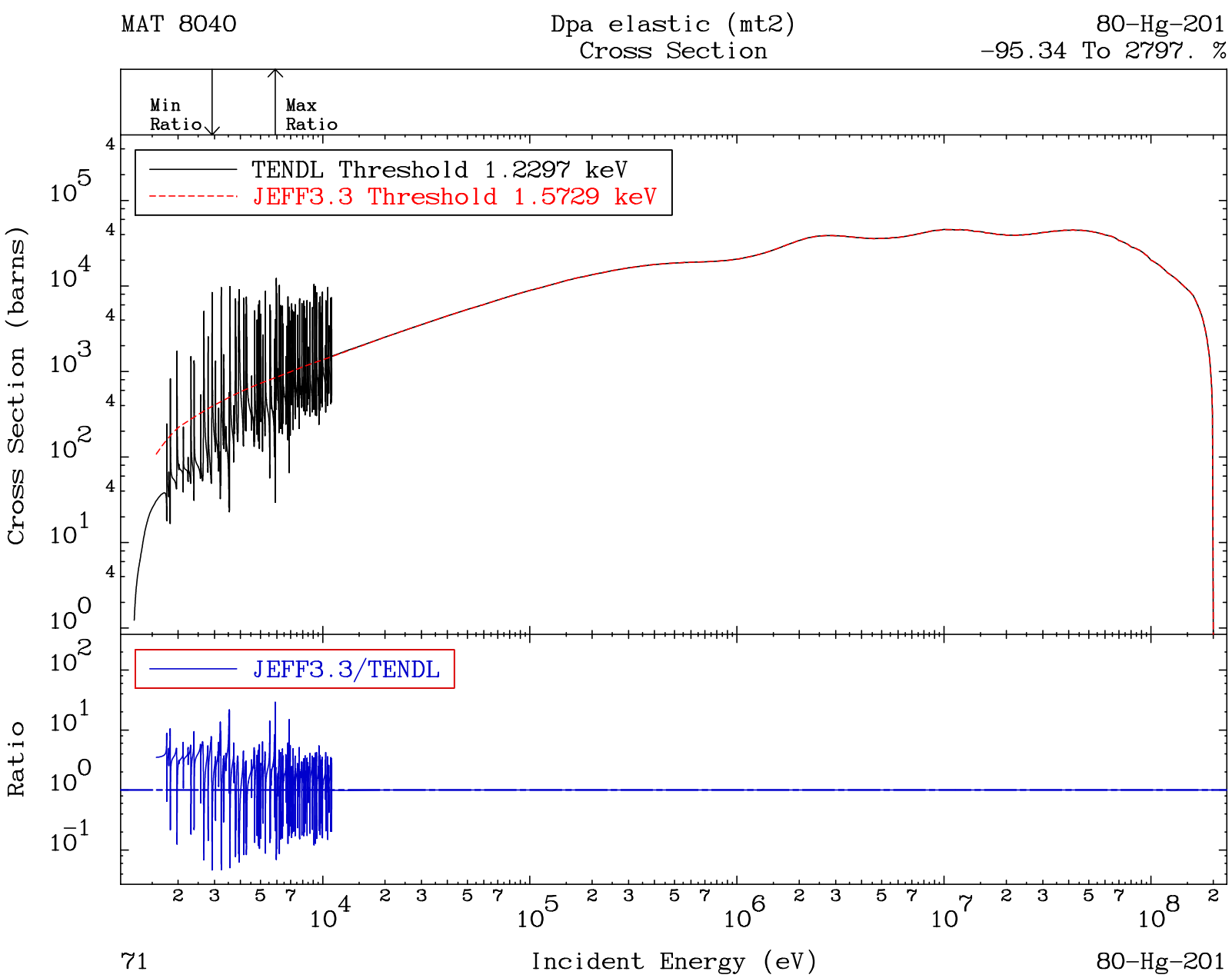

MAT 8040
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
80-Hg-201
-279.6 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
400
200
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
66
Incident Energy (eV)
80-Hg-201

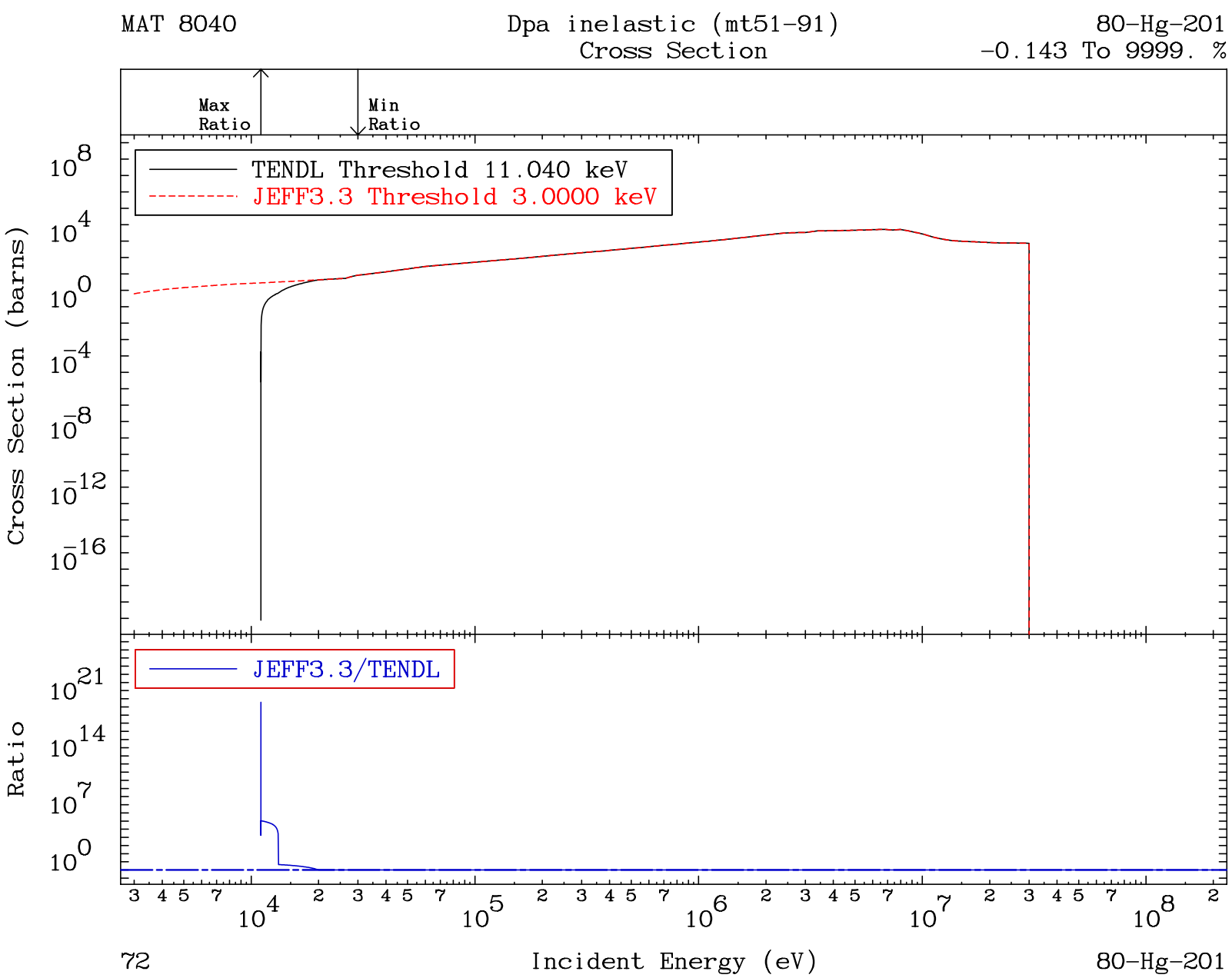

MAT 8040
Kerma capture (mt102)
Cross Section
80-Hg-201
-98.13 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
67
80-Hg-201

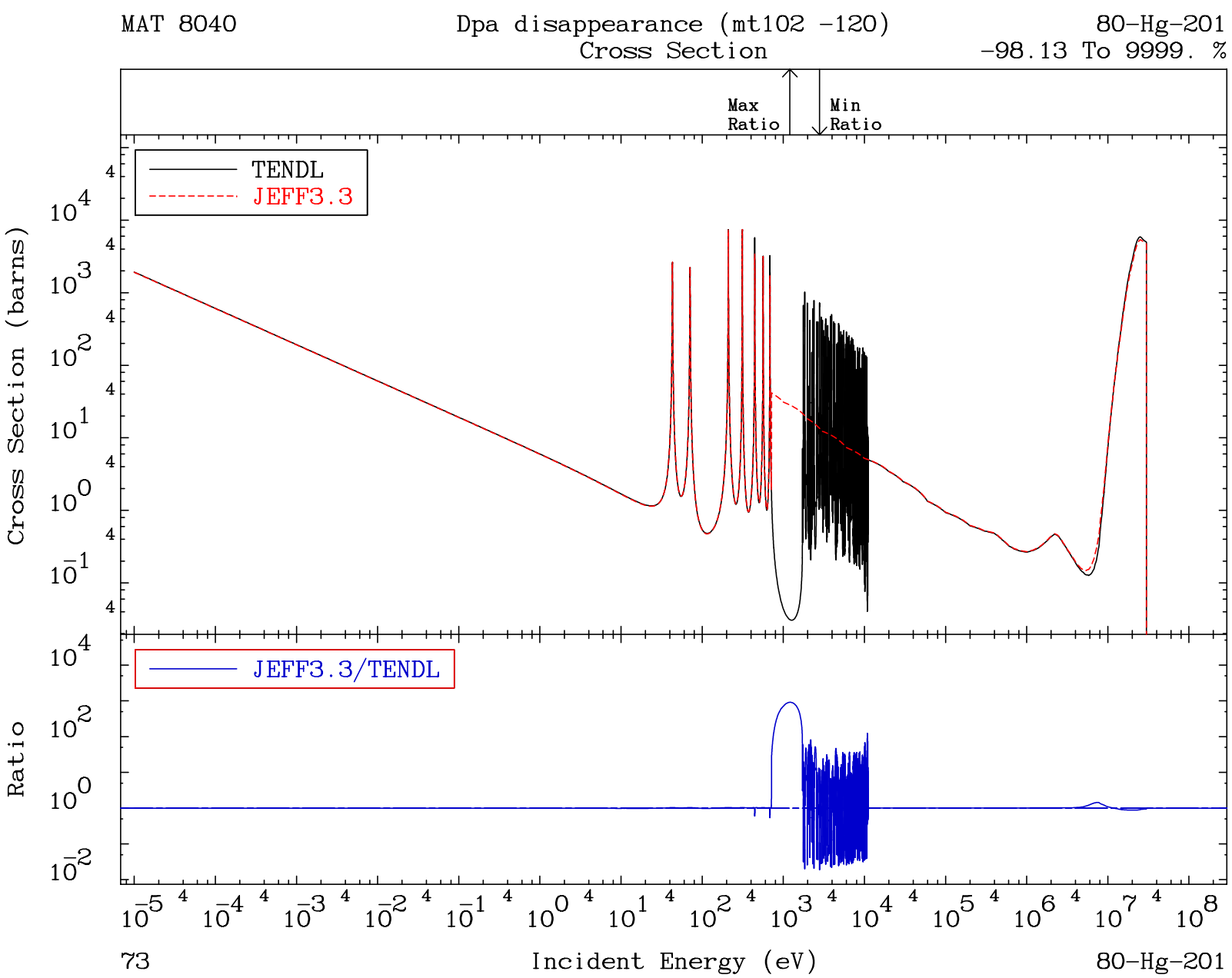

MAT 8040
Total photon (eV-barns)
Cross Section
80-Hg-201
-98.14 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
80-Hg-201

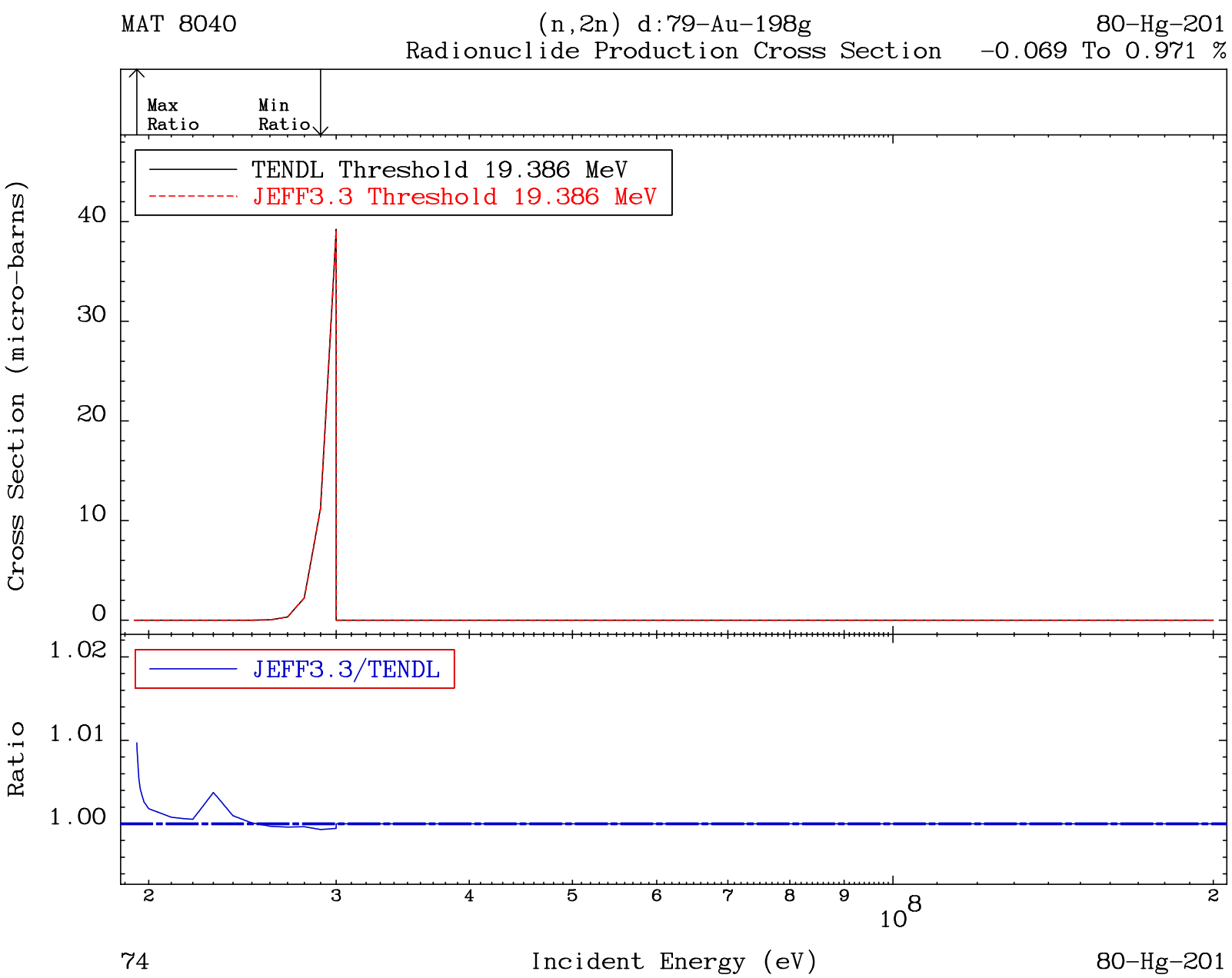

MAT 8040
Total kinematic kerma (high limit)
Cross Section
80-Hg-201
-95.33 To 1663. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
80-Hg-201

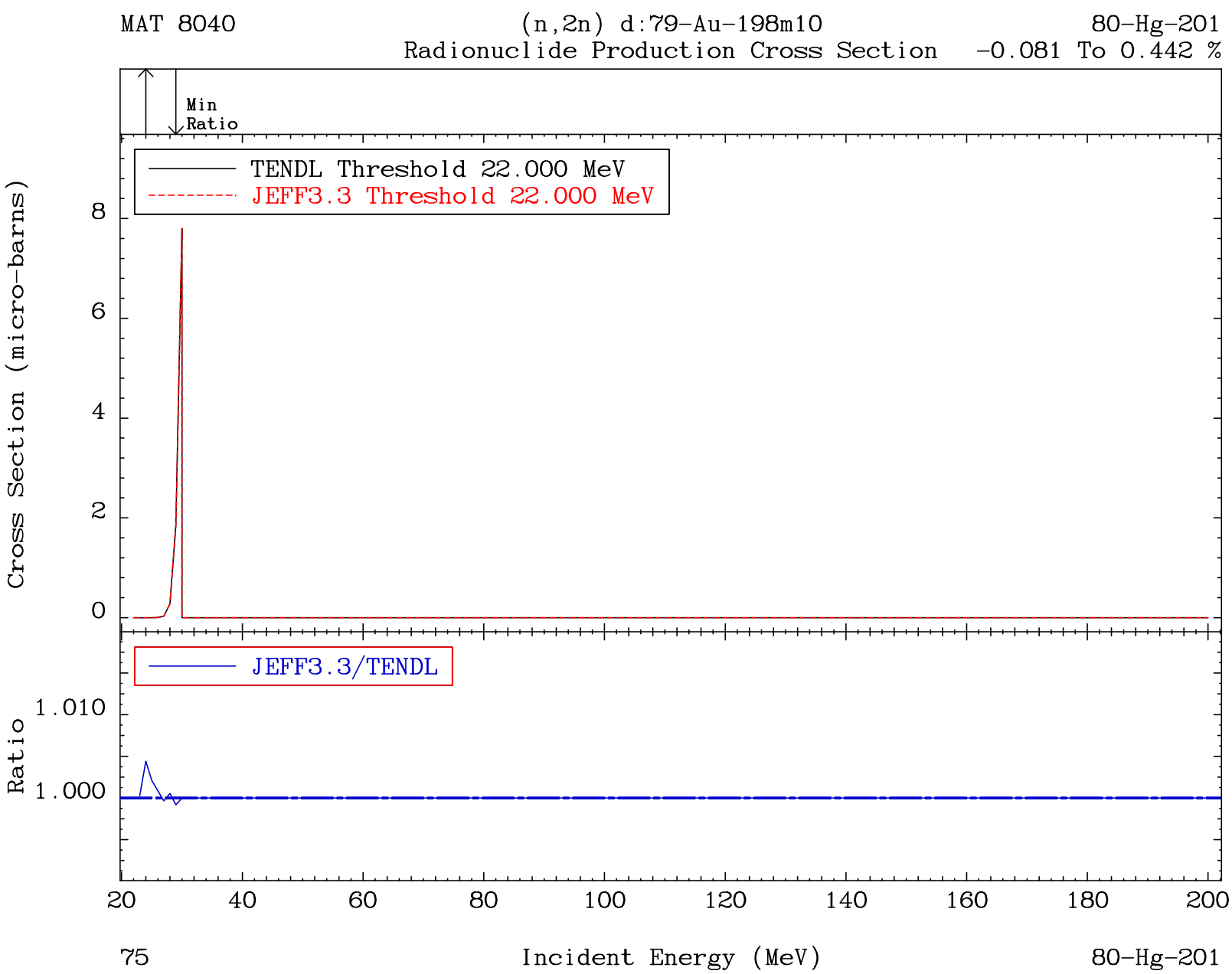

MAT 8040
Dpa total (eV-barns)
Cross Section
80-Hg-201
-95.38 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
80-Hg-201

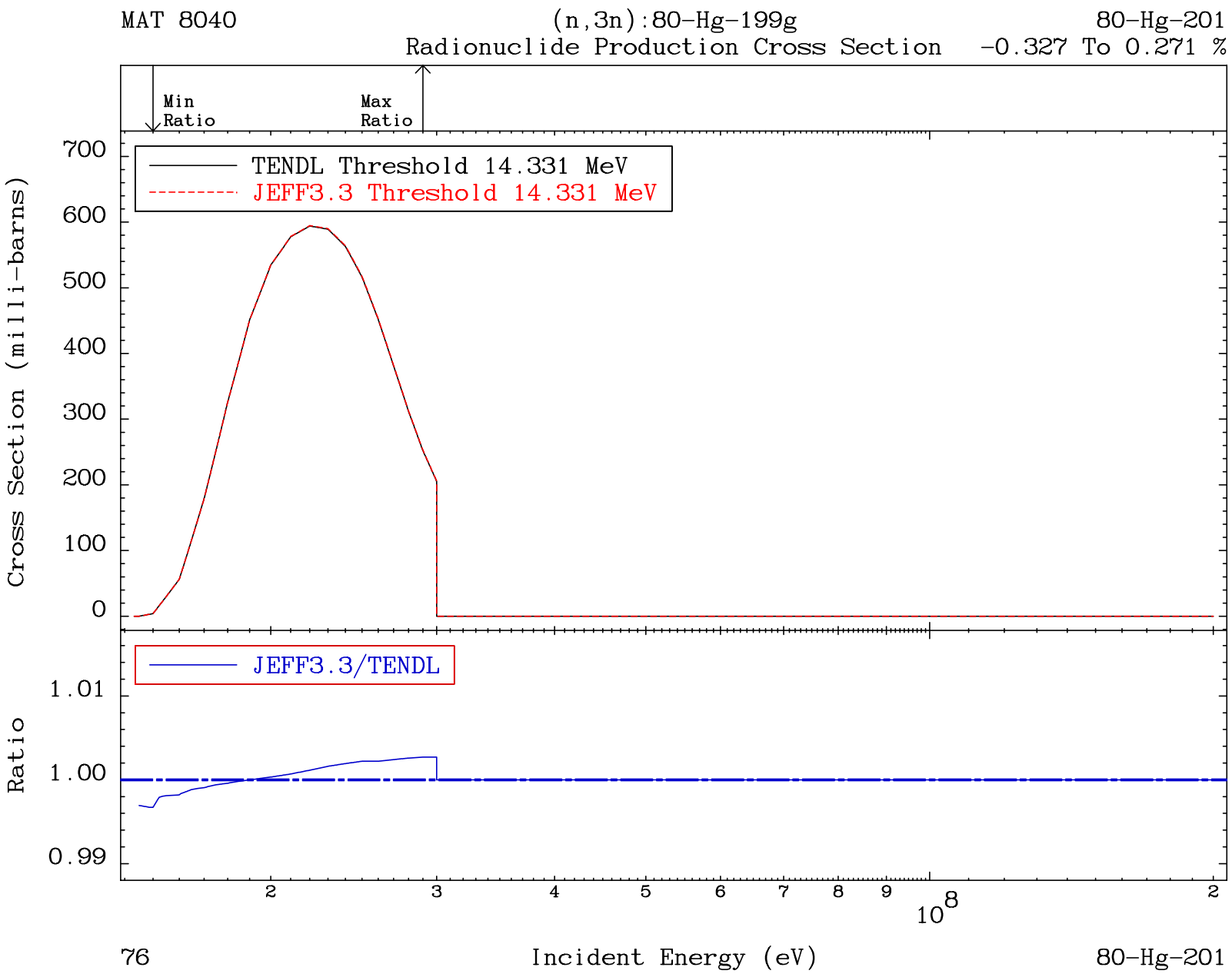

MAT 8040
Dpa elastic (mt2)
Cross Section
80-Hg-201
-95.34 To 2797. %
Min Ratio
Max Ratio
TENDL Threshold 1.2297 keV
JEFF3.3 Threshold 1.5729 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
71
80-Hg-201

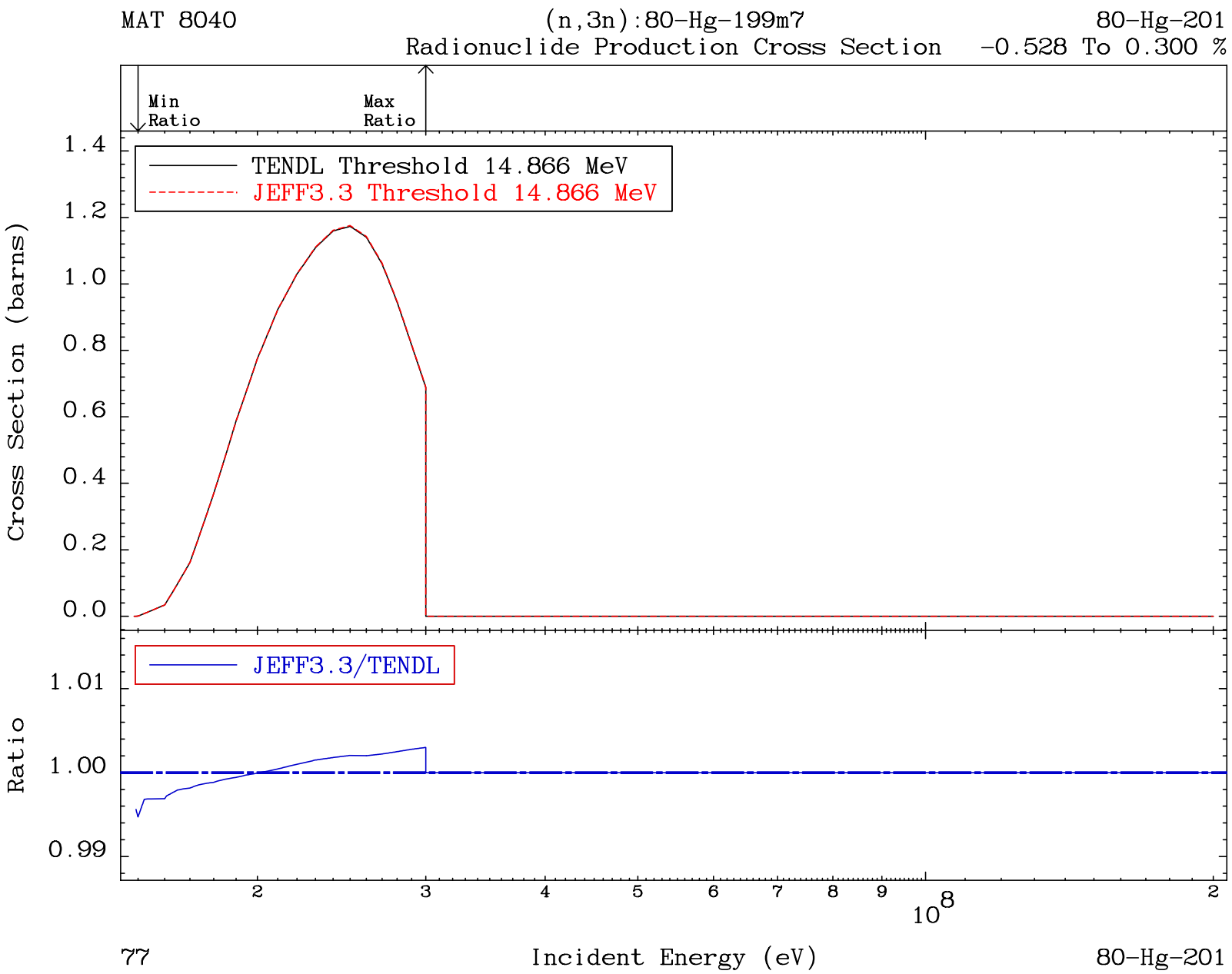

MAT 8040
Dpa inelastic (mt51-91)
Cross Section
80-Hg-201
-0.143 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.040 keV
JEFF3.3 Threshold 3.0000 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
80-Hg-201

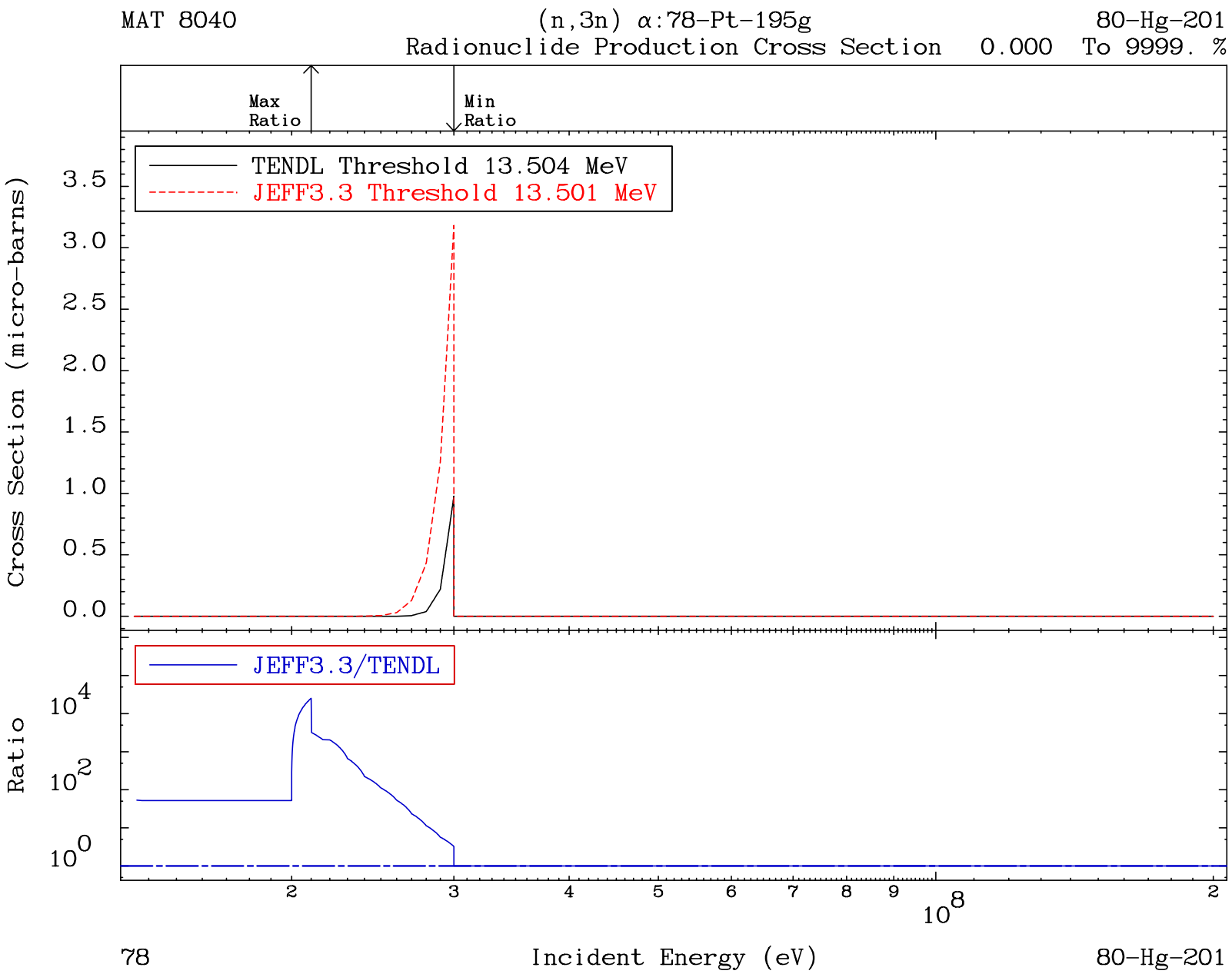

MAT 8040
Dpa disappearance (mt102 -120)
Cross Section
80-Hg-201
-98.13 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
73
80-Hg-201

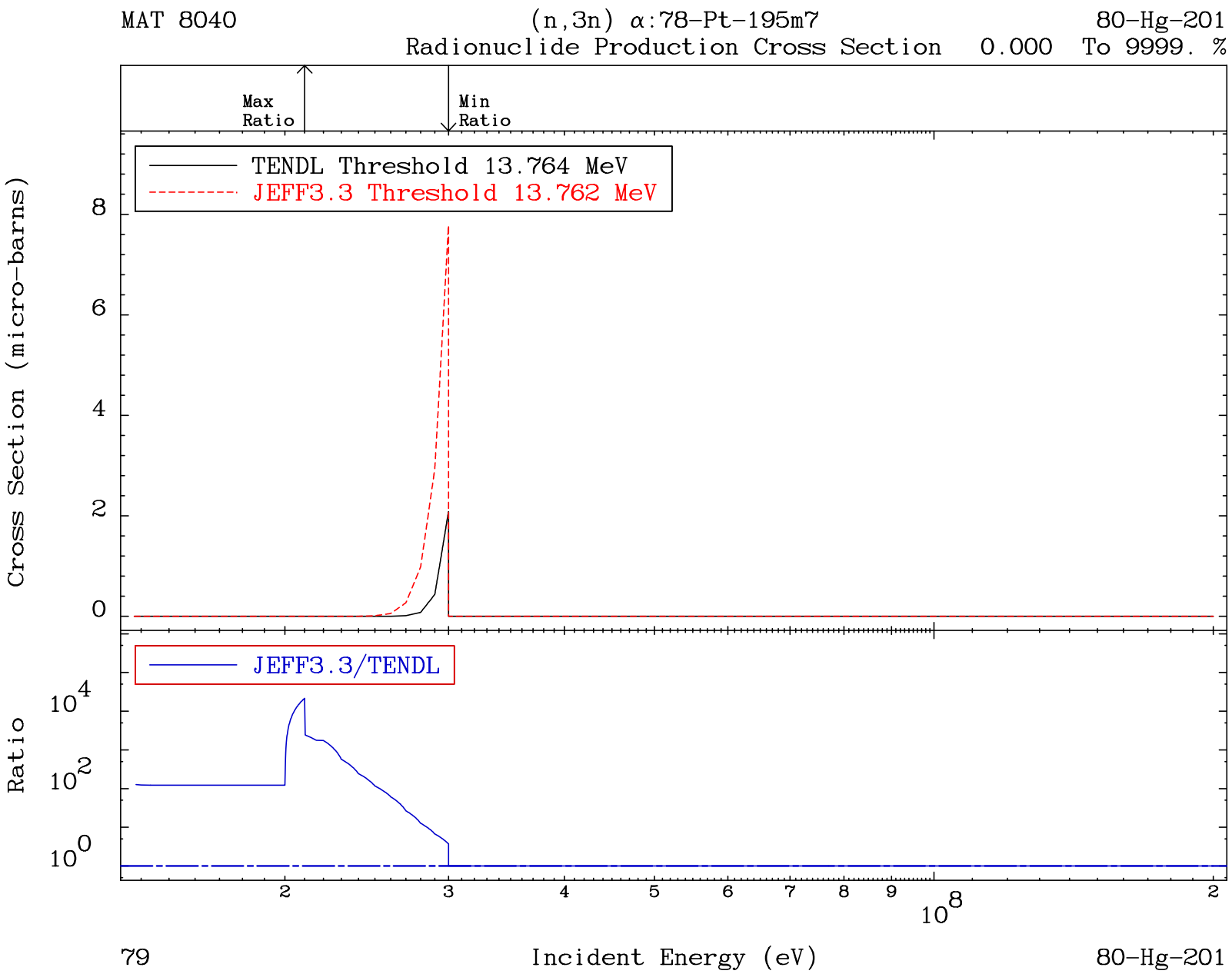

MAT 8040
(n,2n) d:79-Au-198g
80-Hg-201
Radionuclide Production Cross Section
-0.069 To 0.971 %
Max Ratio
Min Ratio
TENDL Threshold 19.386 MeV
JEFF3.3 Threshold 19.386 MeV
Cross Section (micro-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
74
Incident Energy (eV)
80-Hg-201

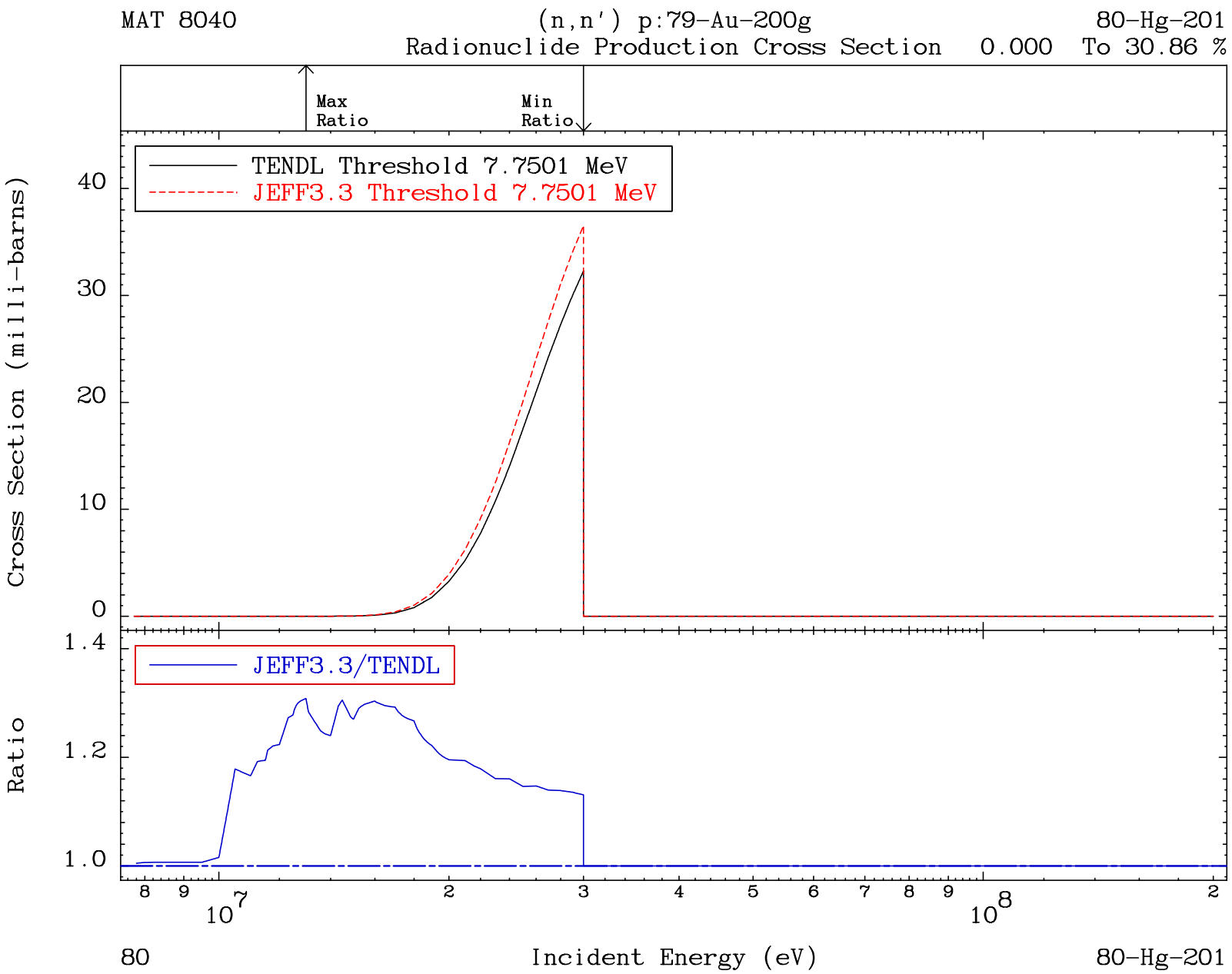

MAT 8040
(n,2n) d:79-Au-198m10
80-Hg-201
Radionuclide Production Cross Section
-0.081 To 0.442 %
Min
Ratio
TENDL Threshold 22.000 MeV
JEFF3.3 Threshold 22.000 MeV
Cross Section (micro-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
1.000
1.010
20
40
60
80
100
120
140
160
180
200
75
Incident Energy (MeV)
80-Hg-201

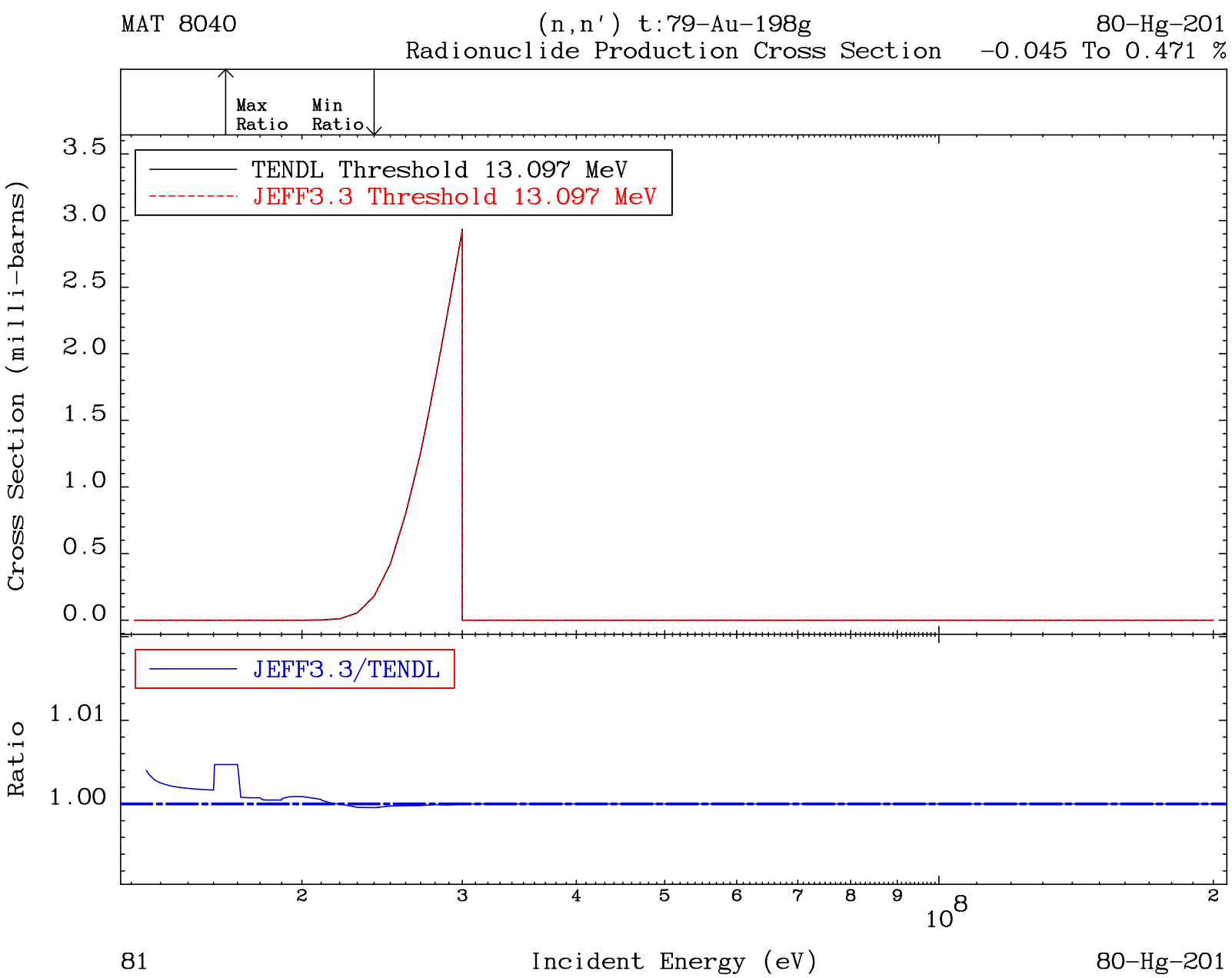

MAT 8040
(n,3n):80-Hg-199g
80-Hg-201
Radionuclide Production Cross Section
-0.327 To 0.271 %
Min Ratio
Max Ratio
TENDL Threshold 14.331 MeV
JEFF3.3 Threshold 14.331 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
80-Hg-201

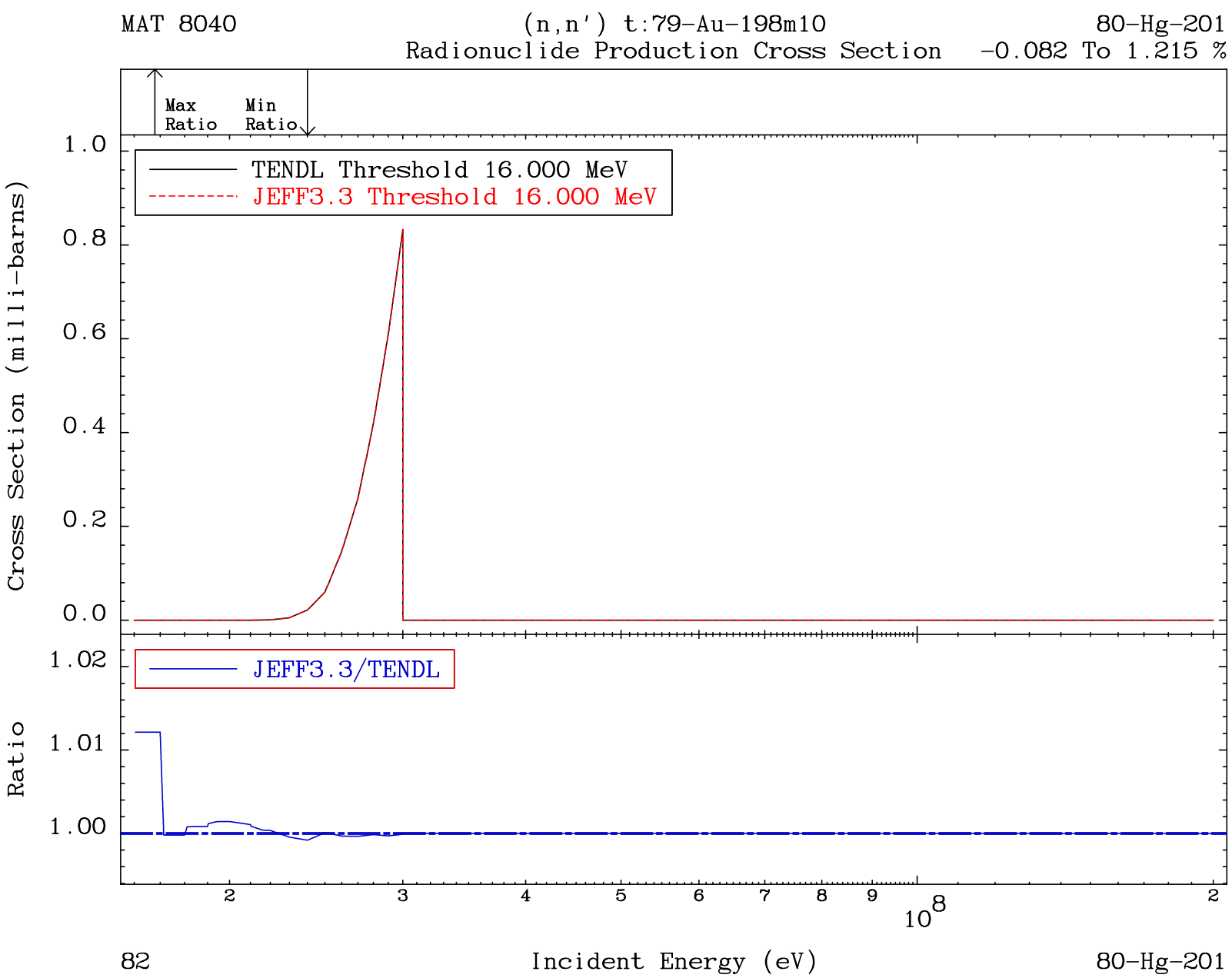

MAT 8040
(n,3n):80-Hg-199m7
80-Hg-201
Radionuclide Production Cross Section
-0.528 To 0.300 %
Min Ratio
Max Ratio
TENDL Threshold 14.866 MeV
JEFF3.3 Threshold 14.866 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
80-Hg-201

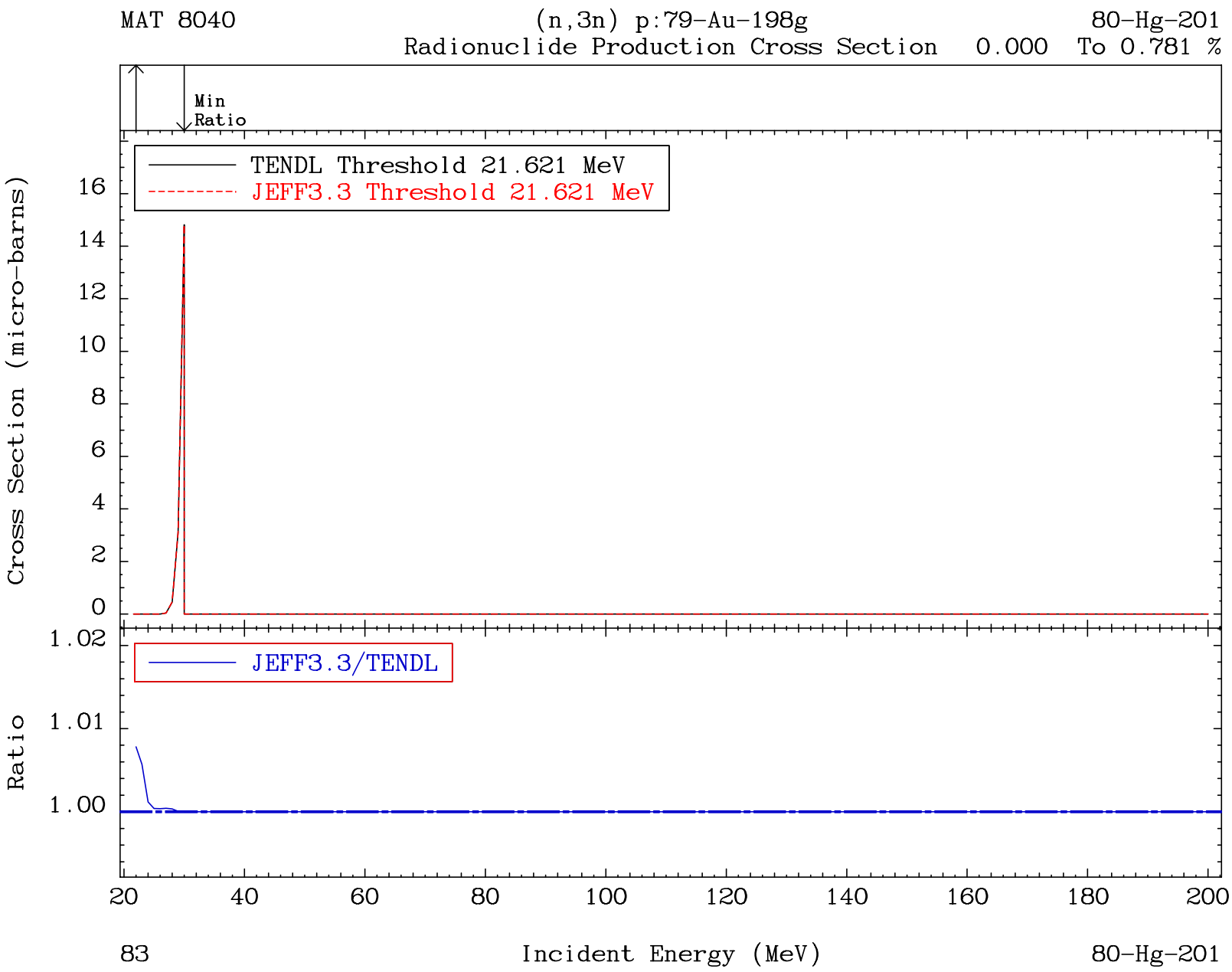

MAT 8040
(n,3n) α:78-Pt-195g
80-Hg-201
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.504 MeV
JEFF3.3 Threshold 13.501 MeV
Cross Section (micro-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
80-Hg-201

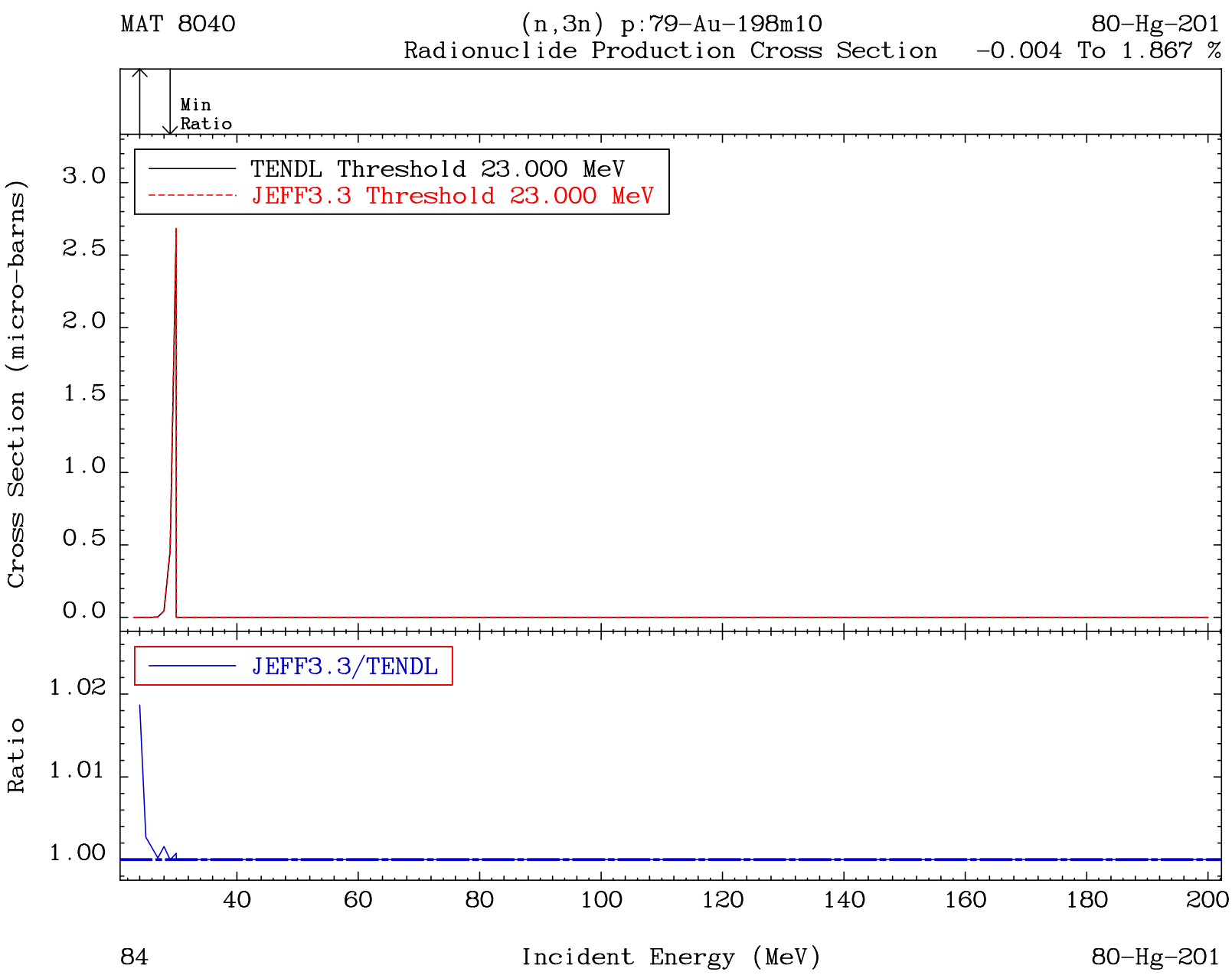

MAT 8040
(n,3n) α:78-Pt-195m7
80-Hg-201
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.764 MeV
JEFF3.3 Threshold 13.762 MeV
Cross Section (micro-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
10^0
10^2
10^4
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
80-Hg-201

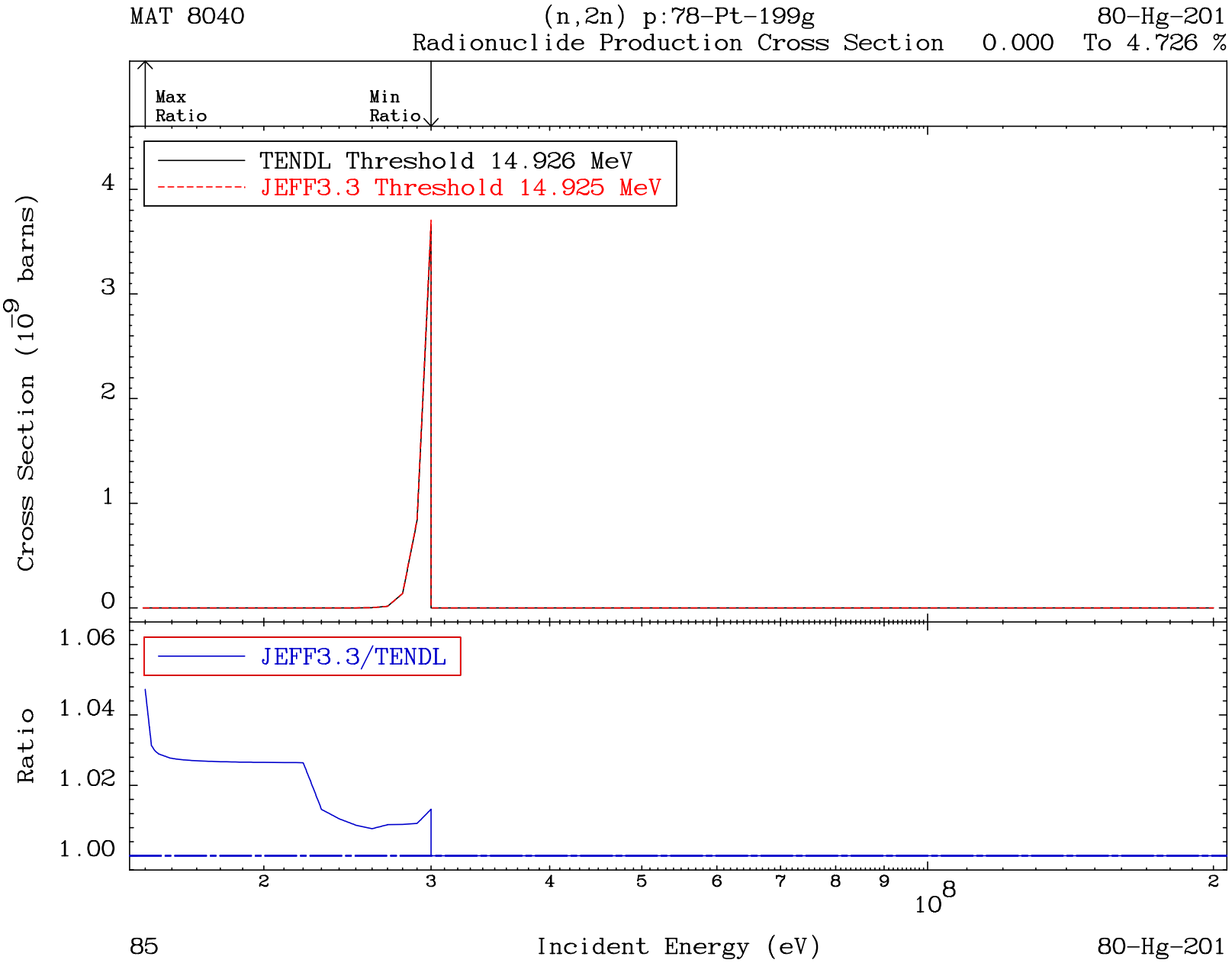

MAT 8040
(n,n') p:79-Au-200g
80-Hg-201
Radionuclide Production Cross Section 0.000 To 30.86 %
Max Ratio
Min Ratio
TENDL Threshold 7.7501 MeV
JEFF3.3 Threshold 7.7501 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
80
Incident Energy (eV)
80-Hg-201

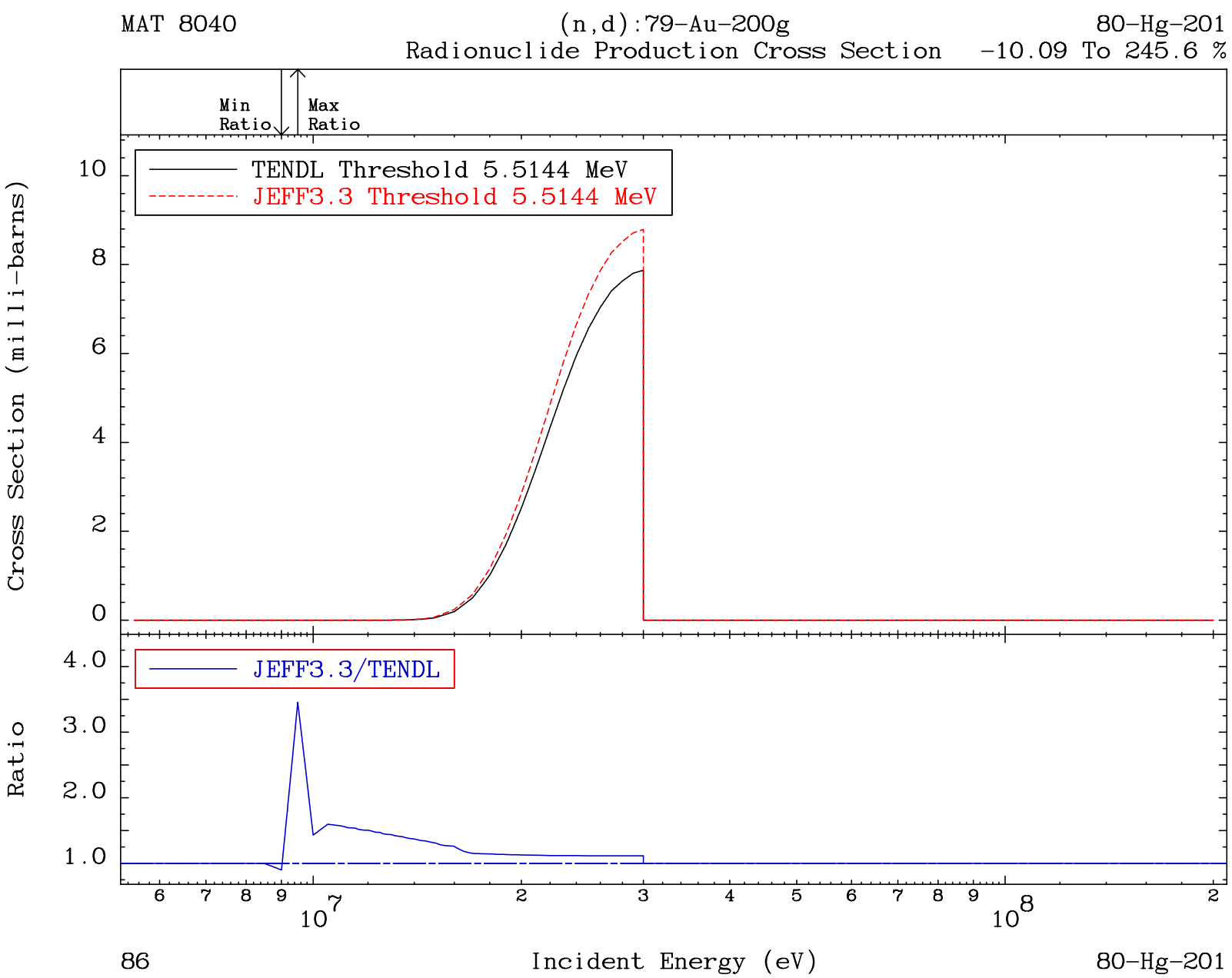

MAT 8040
(n,n') t:79-Au-198g
80-Hg-201
Radionuclide Production Cross Section
-0.045 To 0.471 %
Max Ratio
Min Ratio
TENDL Threshold 13.097 MeV
JEFF3.3 Threshold 13.097 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
80-Hg-201

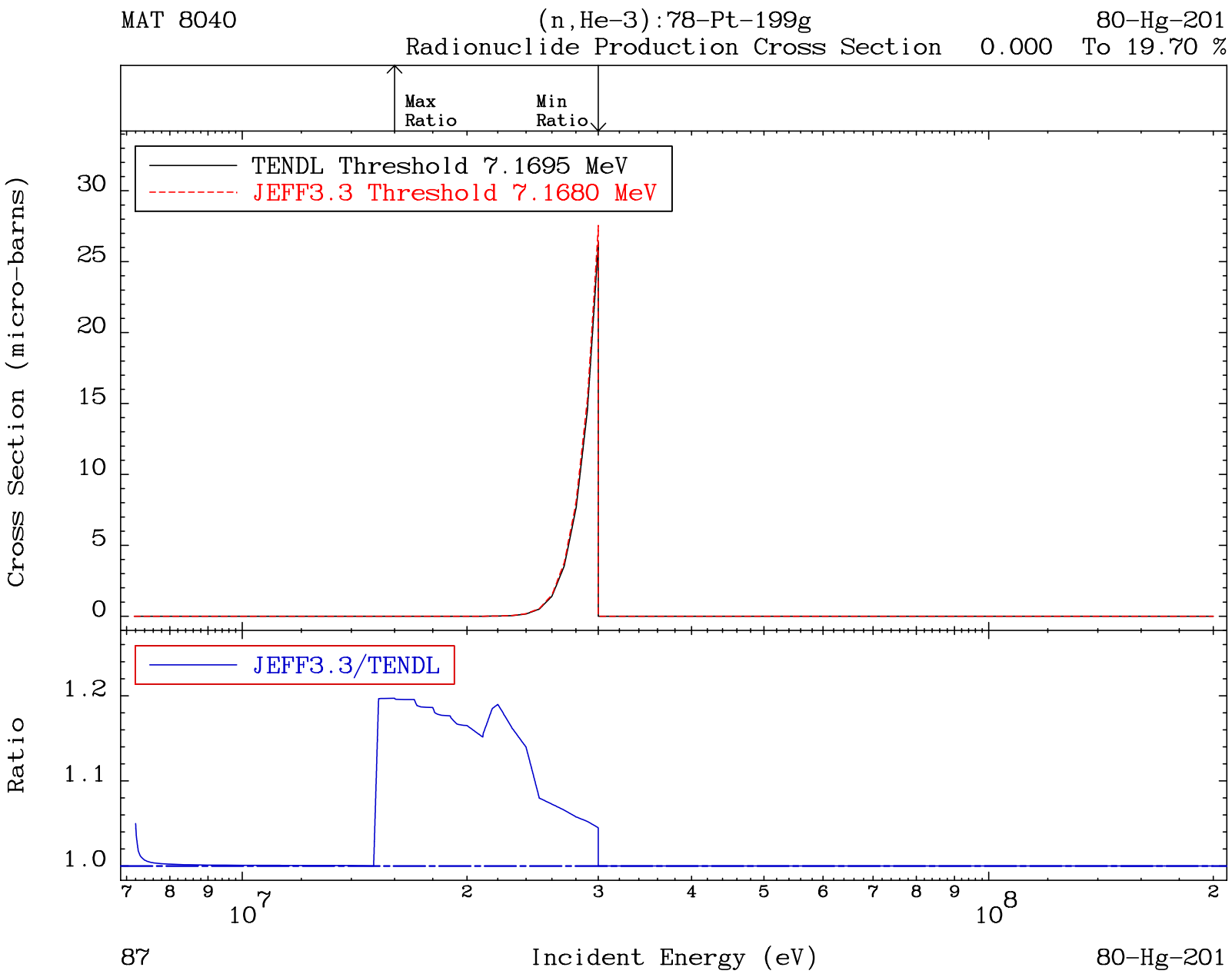

MAT 8040
(n,n') t:79-Au-198m10
80-Hg-201
Radionuclide Production Cross Section -0.082 To 1.215 %
Max Ratio
Min Ratio
TENDL Threshold 16.000 MeV
JEFF3.3 Threshold 16.000 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
80-Hg-201

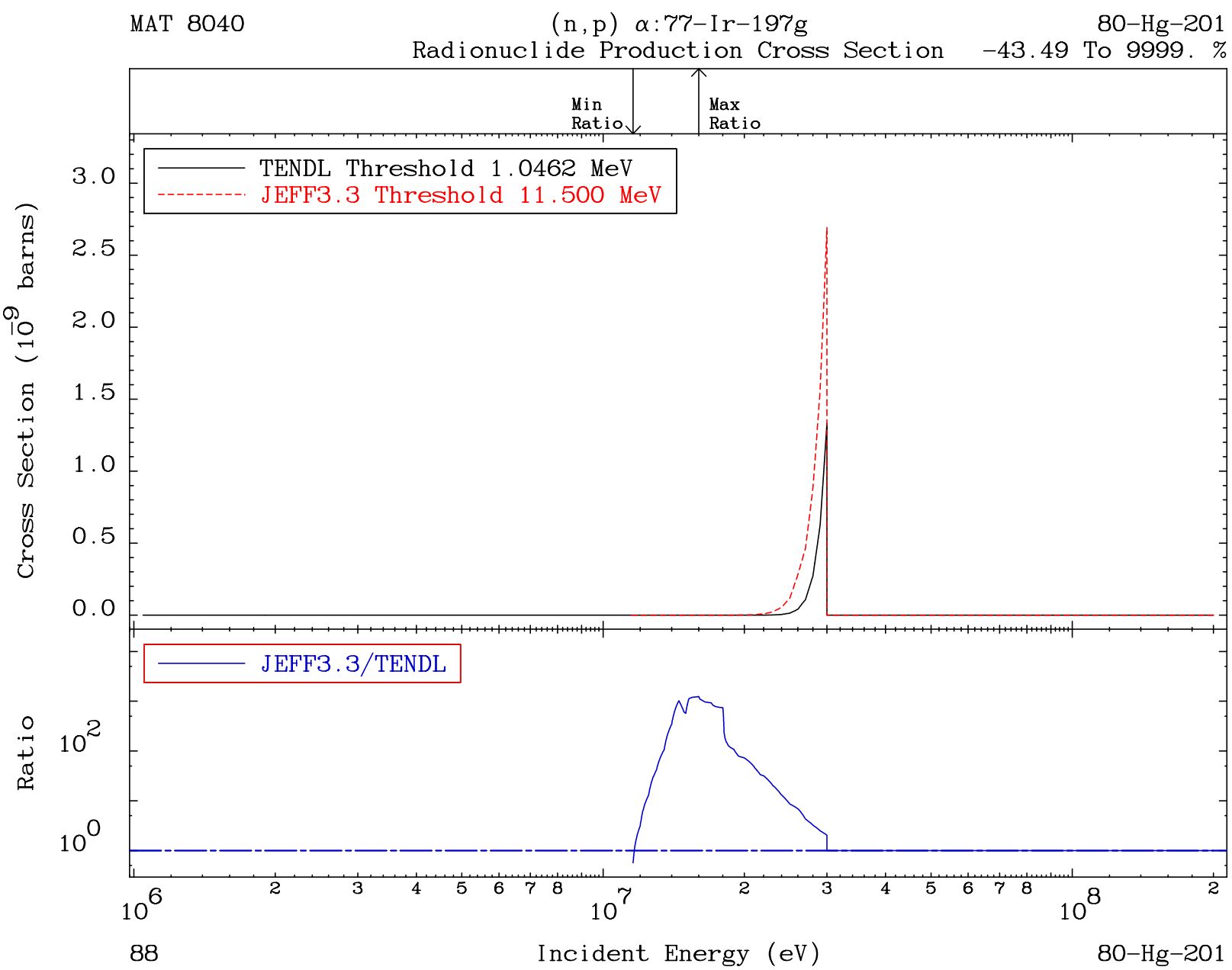

MAT 8040
(n,3n) p:79-Au-198g
80-Hg-201
Radionuclide Production Cross Section 0.000 To 0.781 %
Min Ratio
TENDL Threshold 21.621 MeV
JEFF3.3 Threshold 21.621 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
12
14
16
JEFF3.3/TENDL
Ratio
1.00
1.01
1.02
20
40
60
80
100
120
140
160
180
200
83
Incident Energy (MeV)
80-Hg-201

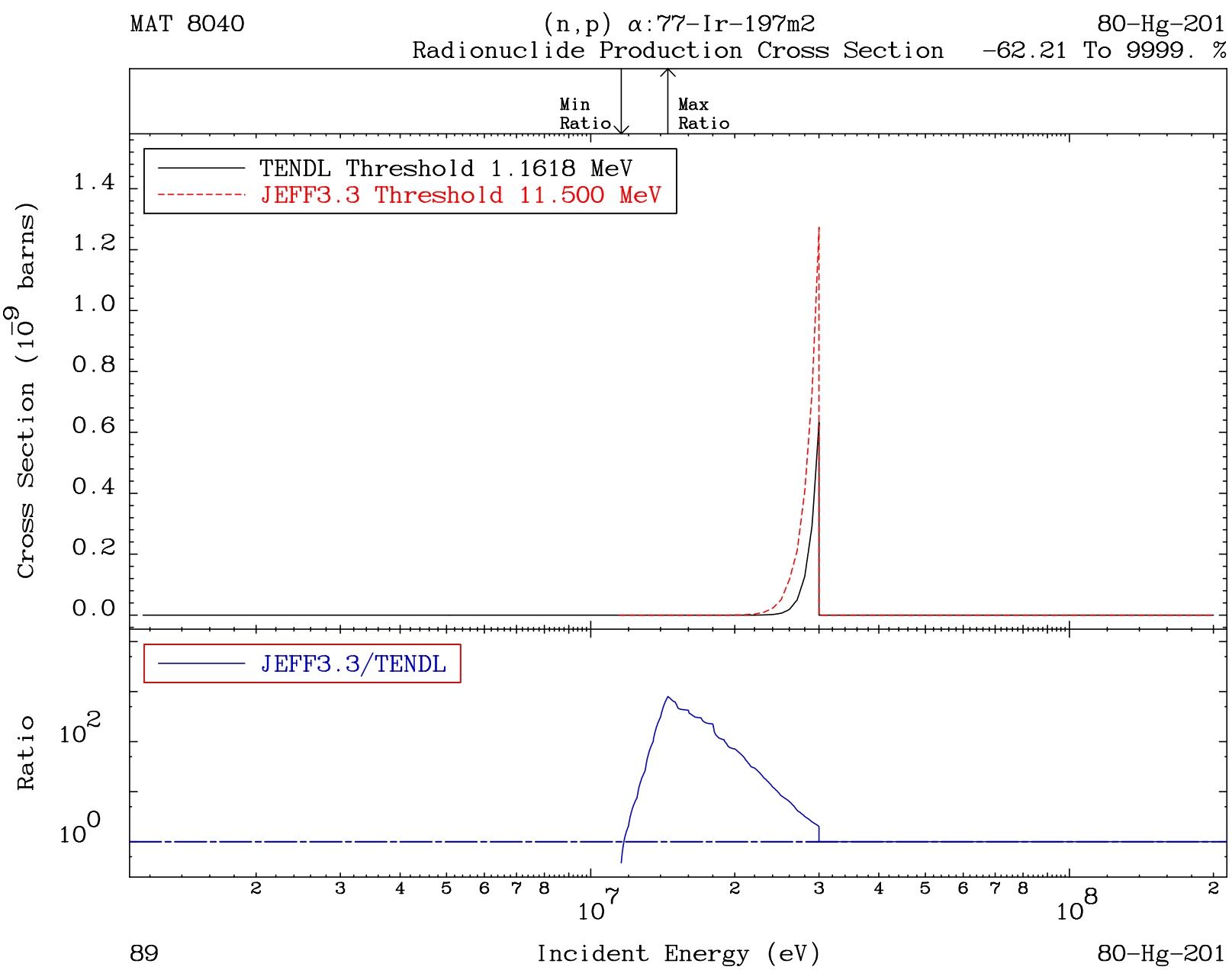

MAT 8040
(n,3n) p:79-Au-198m10
80-Hg-201
Radionuclide Production Cross Section
-0.004 To 1.867 %
Min
Ratio
TENDL Threshold 23.000 MeV
JEFF3.3 Threshold 23.000 MeV
Cross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
84
Incident Energy (MeV)
80-Hg-201


MAT 8040
(n,2n) p:78-Pt-199g
80-Hg-201
Radionuclide Production Cross Section 0.000 To 4.726 %
Max Ratio
Min Ratio
TENDL Threshold 14.926 MeV
JEFF3.3 Threshold 14.925 MeV
Cross Section (10^{-9} barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
1.00
1.02
1.04
1.06
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
80-Hg-201


MAT 8040
(n,d):79-Au-200g
80-Hg-201
Radionuclide Production Cross Section
-10.09 To 245.6 %
Min Ratio
Max Ratio
TENDL Threshold 5.5144 MeV
JEFF3.3 Threshold 5.5144 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
86
80-Hg-201


MAT 8040
(n,He-3):78-Pt-199g
80-Hg-201
Radionuclide Production Cross Section 0.000 To 19.70 %
Max Ratio
Min Ratio
TENDL Threshold 7.1695 MeV
JEFF3.3 Threshold 7.1680 MeV
Cross Section (micro-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
87
Incident Energy (eV)
80-Hg-201


MAT 8040
(n,p) α:77-Ir-197g
80-Hg-201
Radionuclide Production Cross Section
-43.49 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.0462 MeV
JEFF3.3 Threshold 11.500 MeV
Cross Section (10^{-9} barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^6
10^7
10^8
2 3 4 5 6 7 8
88
Incident Energy (eV)
80-Hg-201


MAT 8040
(n,p) α:77-Ir-197m2
80-Hg-201
Radionuclide Production Cross Section -62.21 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1618 MeV
JEFF3.3 Threshold 11.500 MeV
Cross Section (10^{-9} barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^2
10^0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
89
Incident Energy (eV)
80-Hg-201