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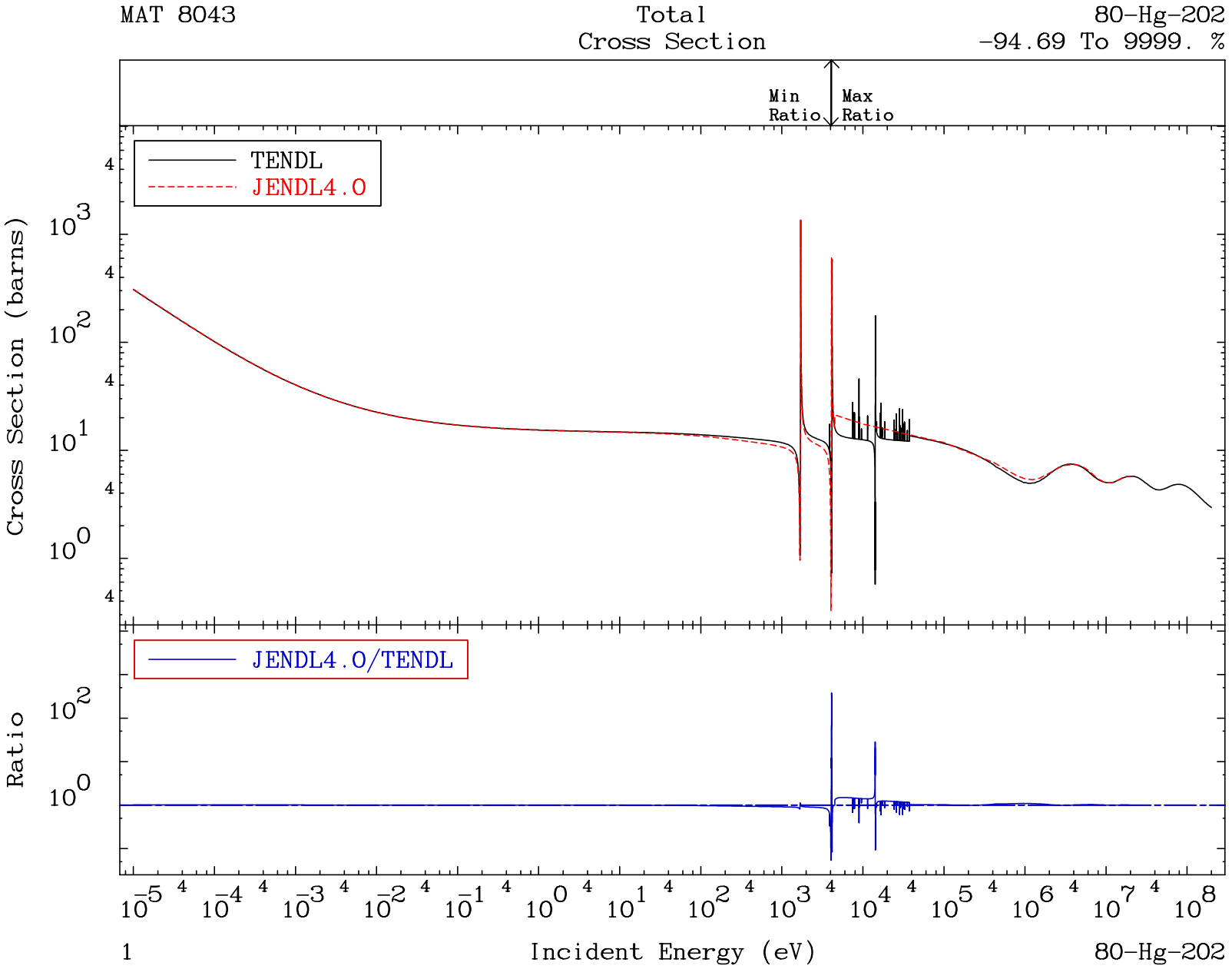
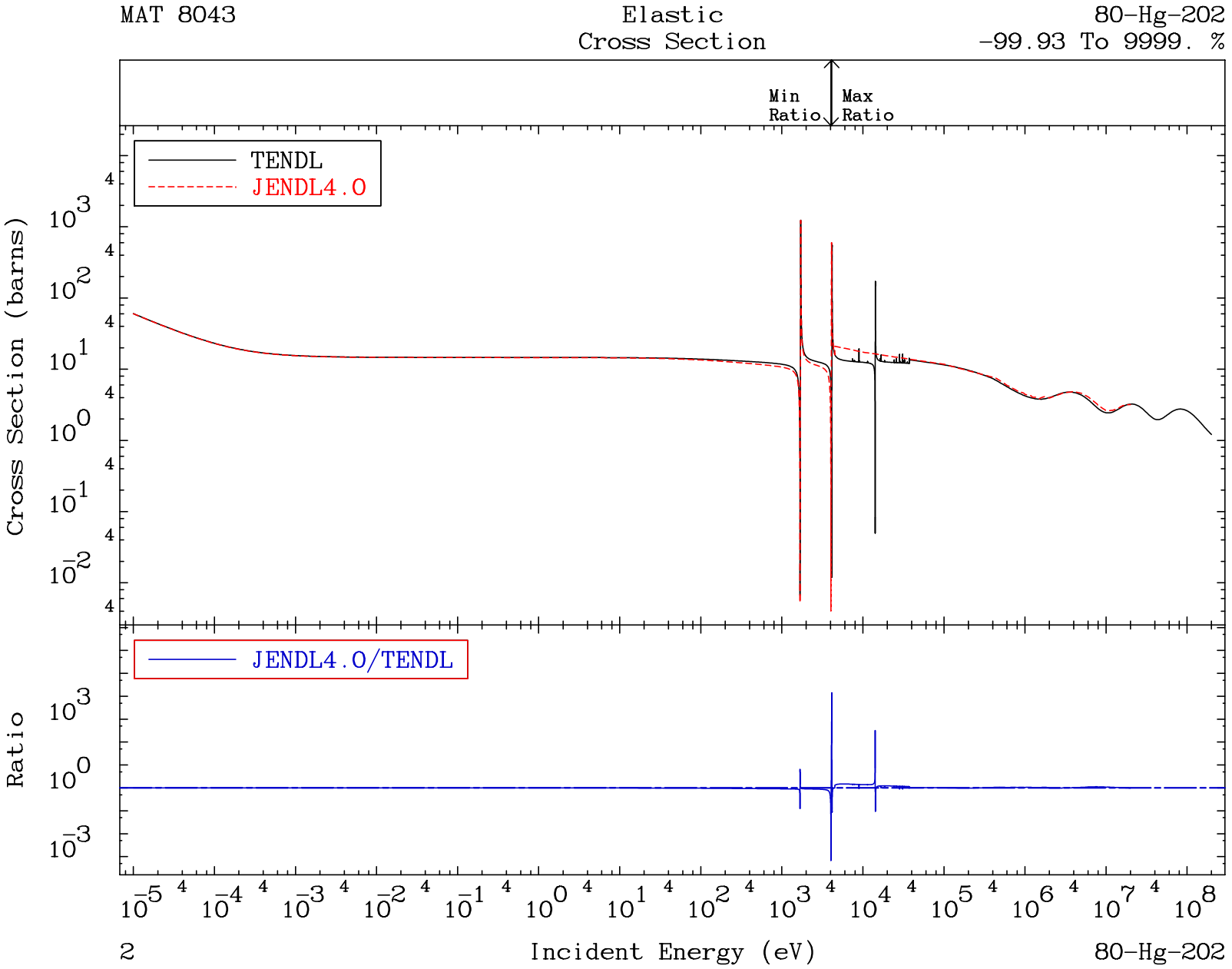
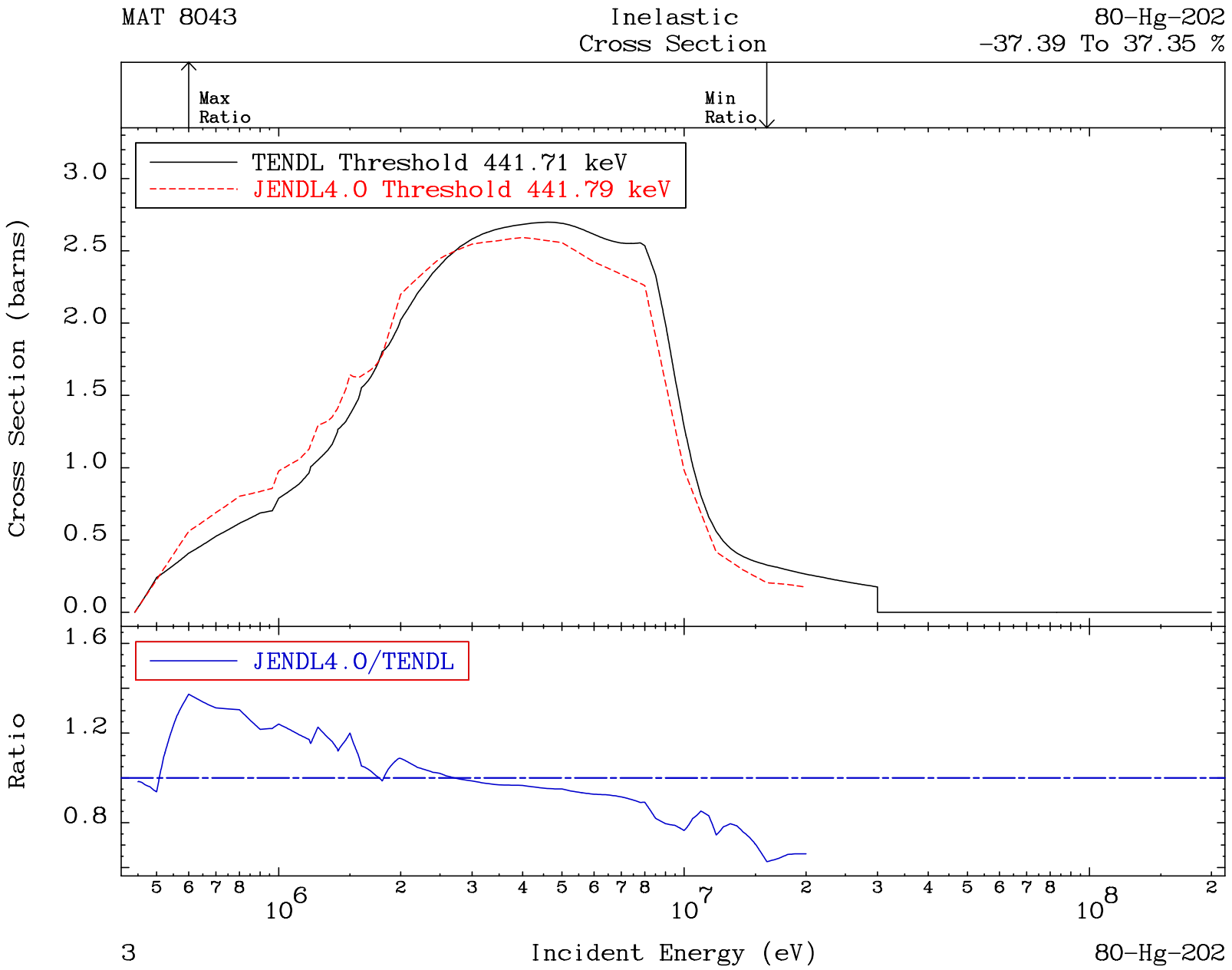
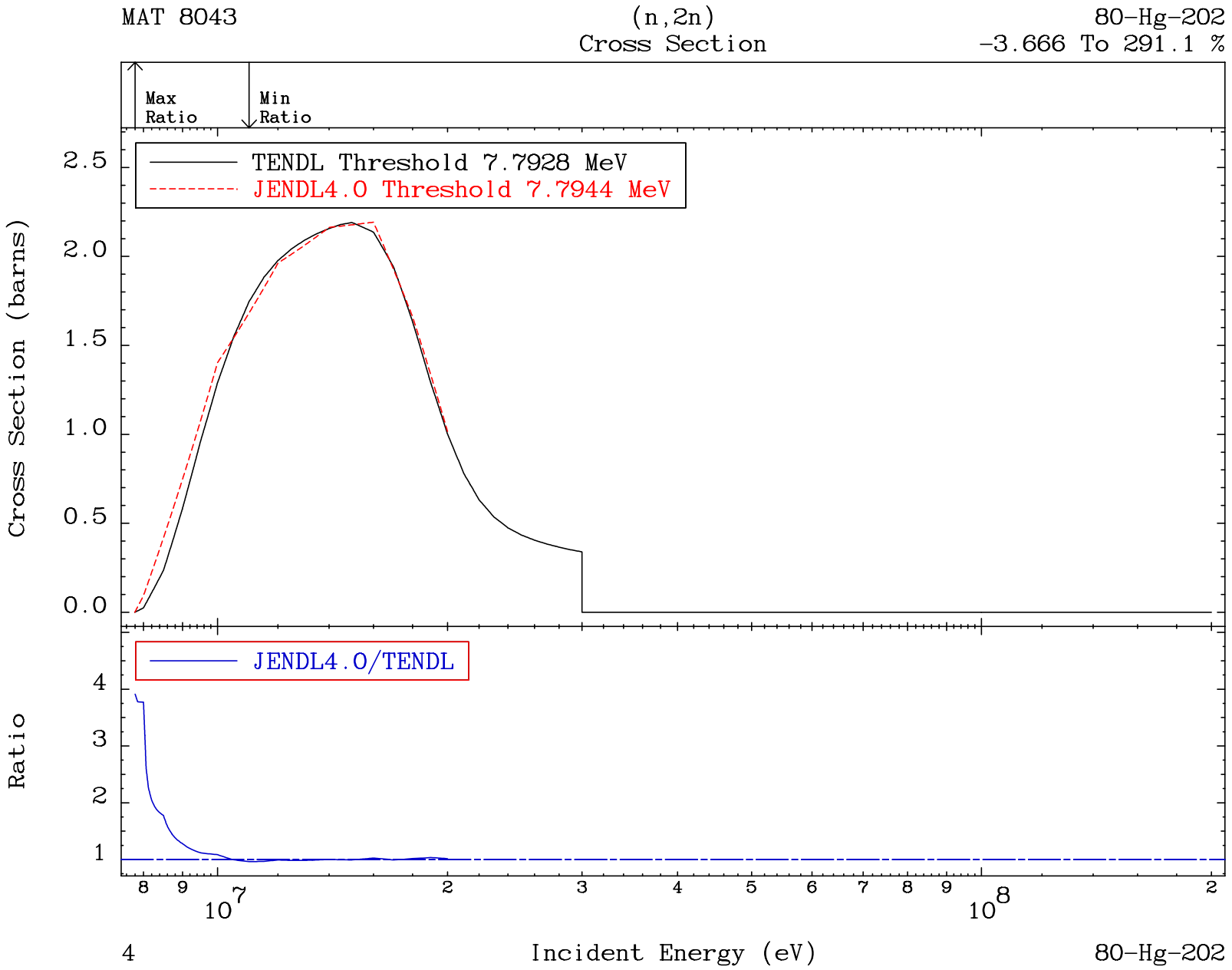
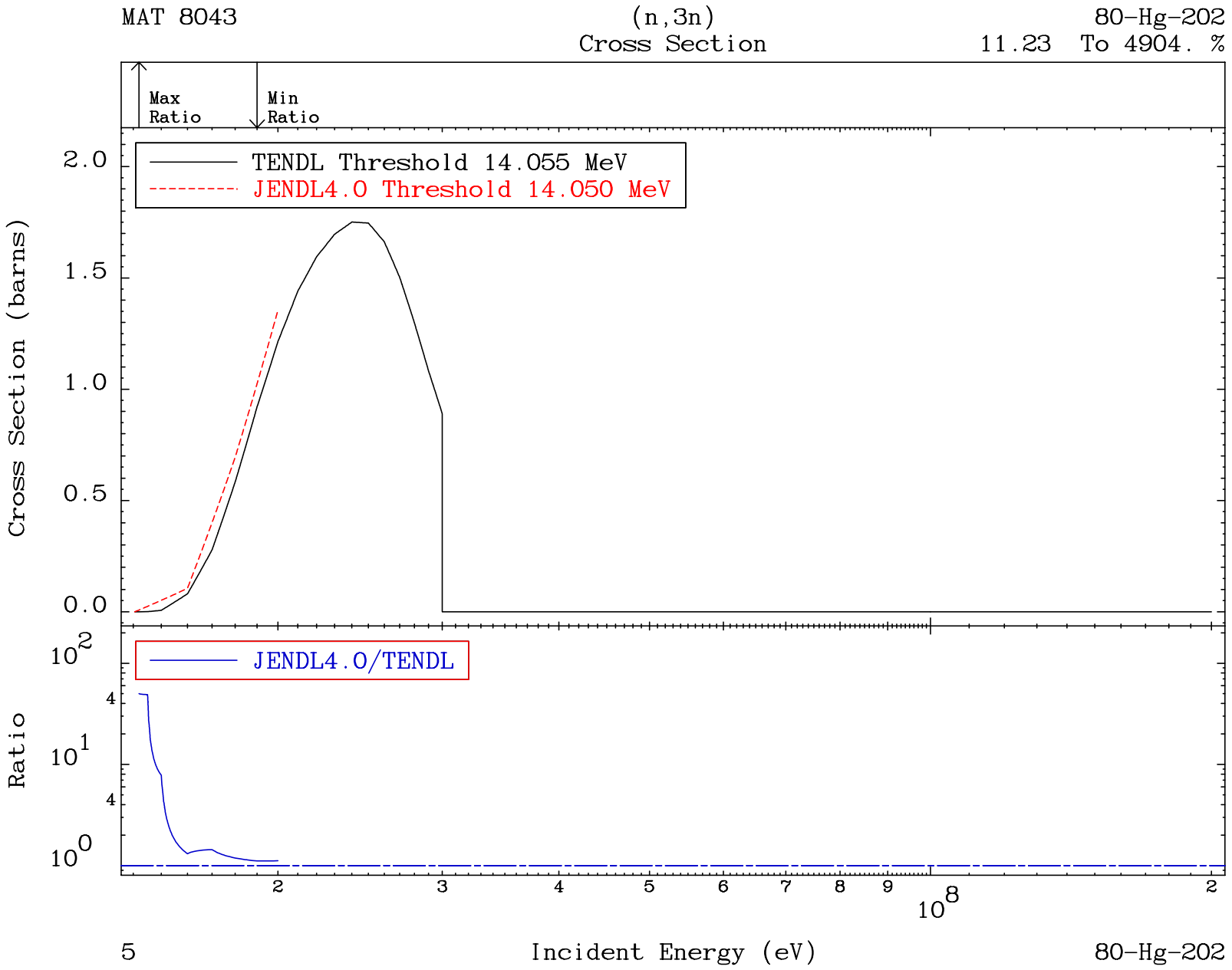
Press Mouse Button to Start

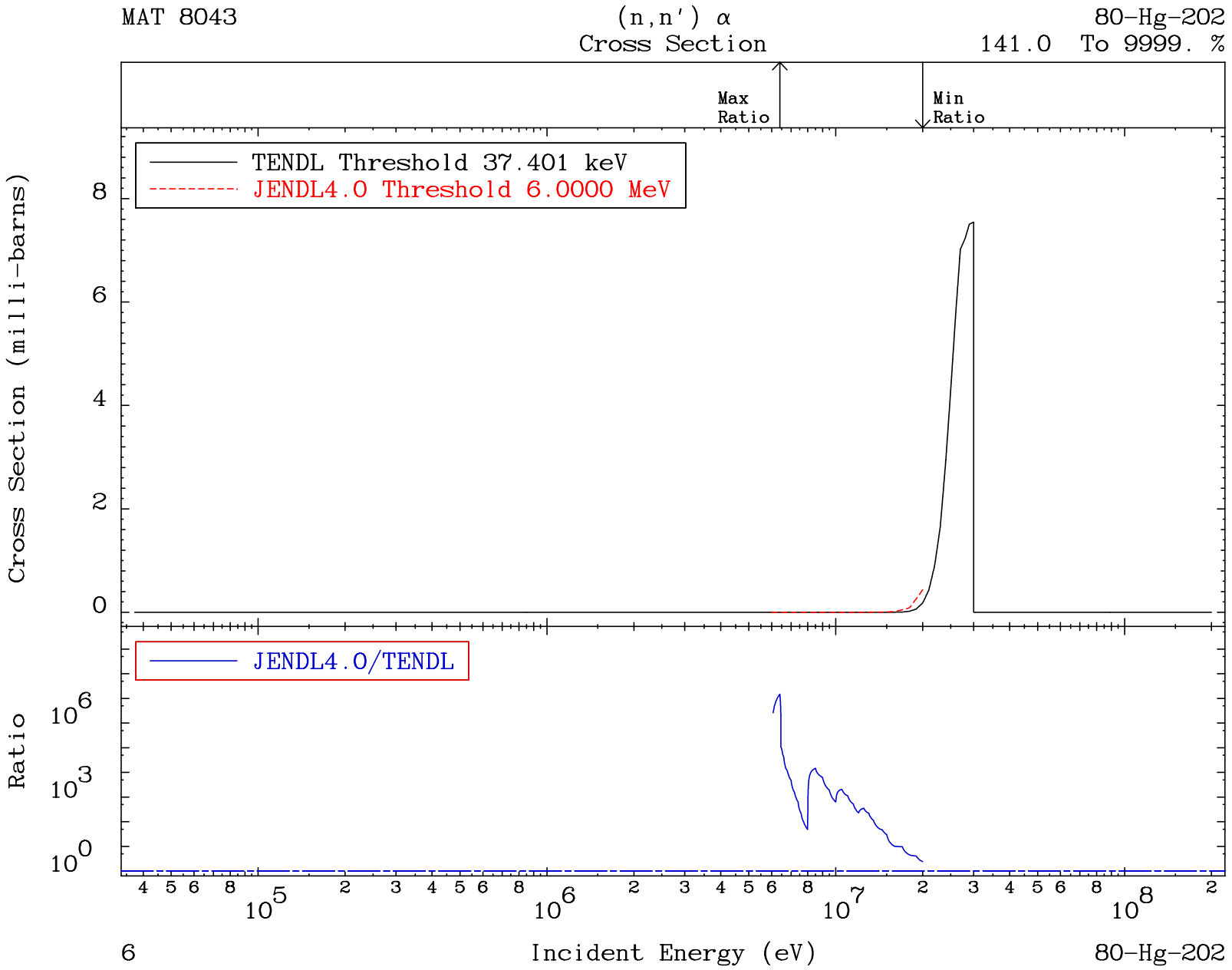

MAT 8043
Total
Cross Section
80-Hg-202
-94.69 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
1
80-Hg-202

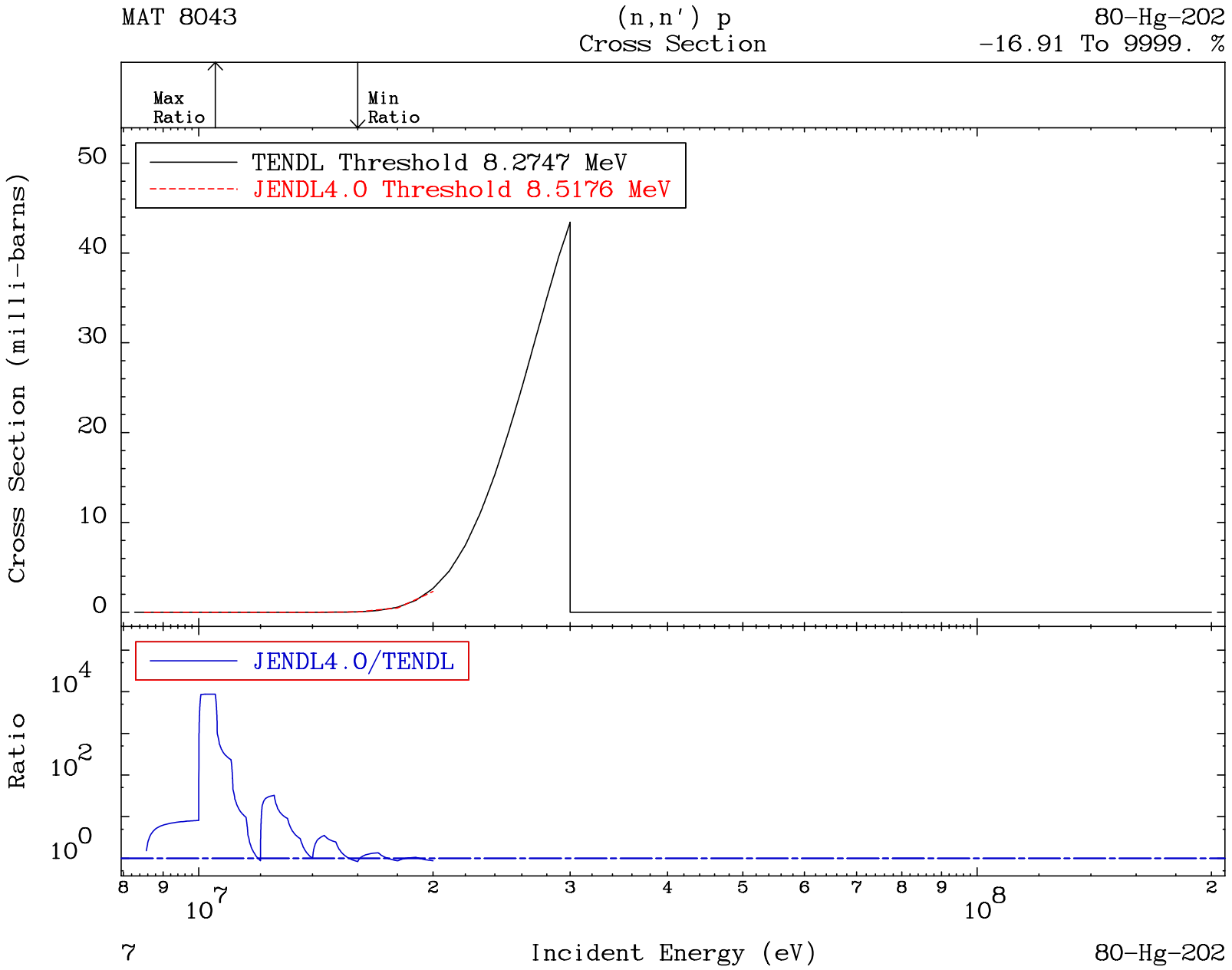

MAT 8043
Elastic
Cross Section
80-Hg-202
-99.93 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
80-Hg-202

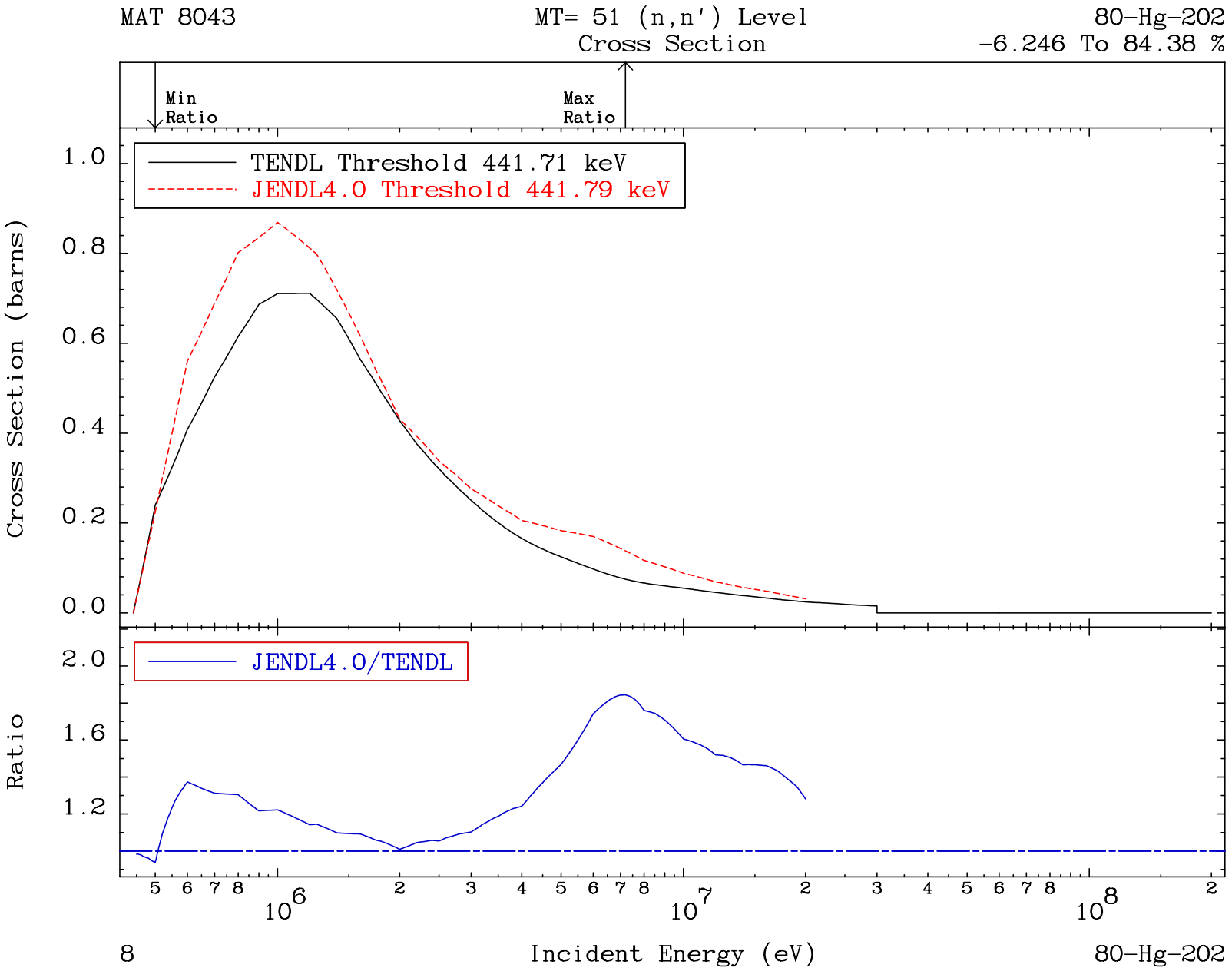

MAT 8043
Inelastic
Cross Section
80-Hg-202
-37.39 To 37.35 %
Max
Ratio
Min
Ratio
TENDL Threshold 441.71 keV
JENDL4.0 Threshold 441.79 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
80-Hg-202

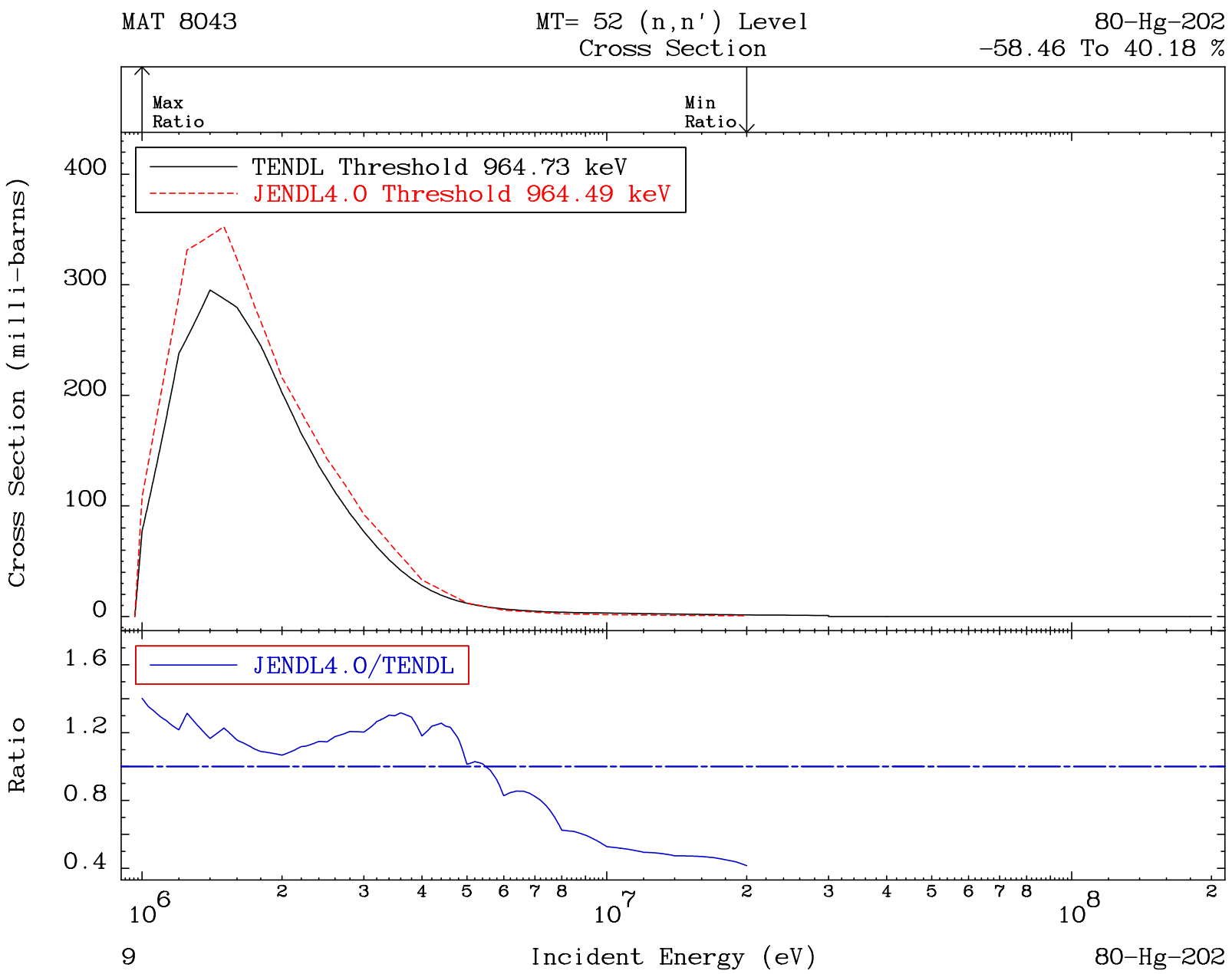

MAT 8043
(n,2n)
Cross Section
80-Hg-202
-3.666 To 291.1 %
Max Ratio
Min Ratio
TENDL Threshold 7.7928 MeV
JENDL4.0 Threshold 7.7944 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
4
3
2
1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
80-Hg-202

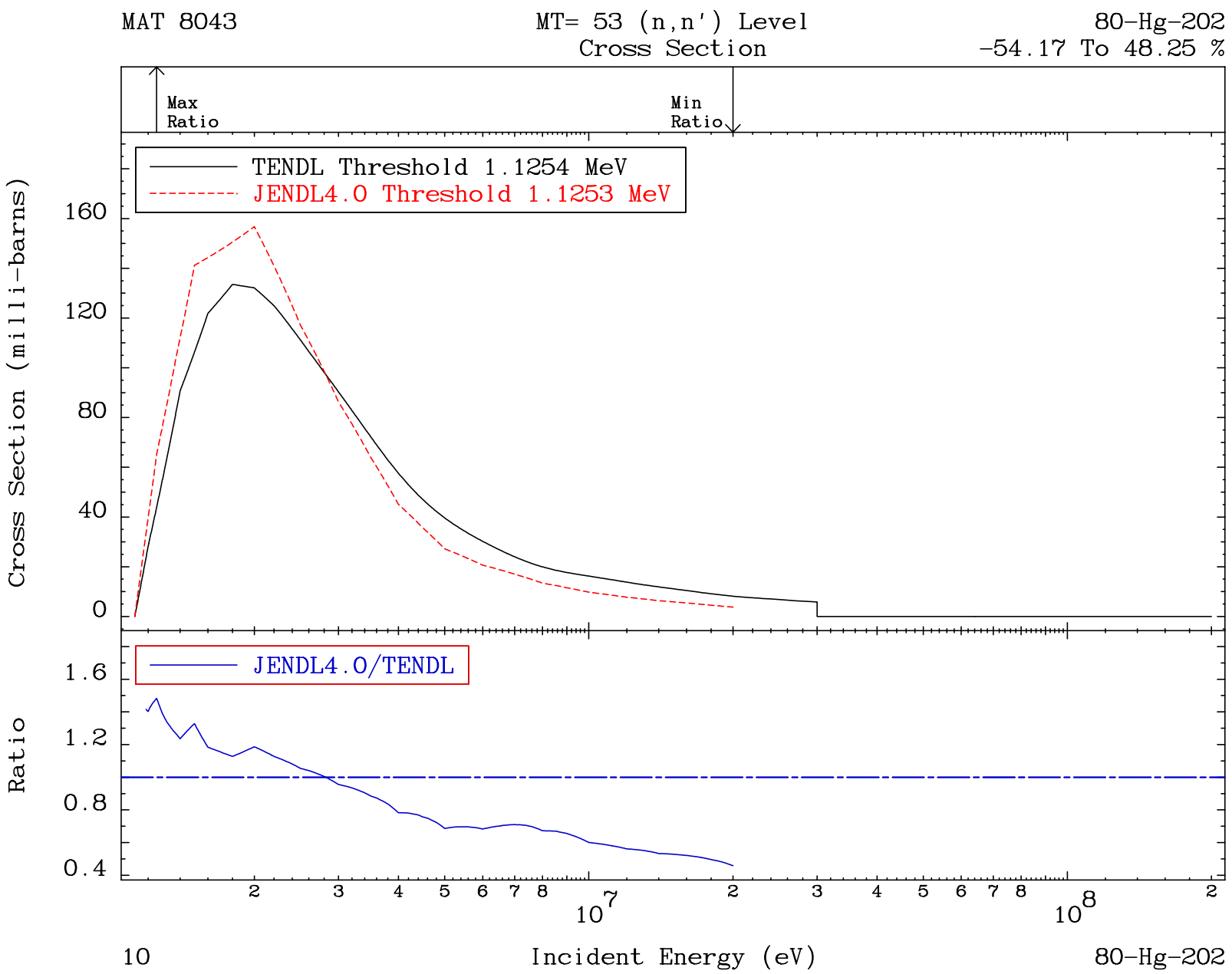

MAT 8043
(n,3n)
Cross Section
80-Hg-202
11.23 To 4904. %
Max Ratio
Min Ratio
TENDL Threshold 14.055 MeV
JENDL4.0 Threshold 14.050 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^2
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
80-Hg-202

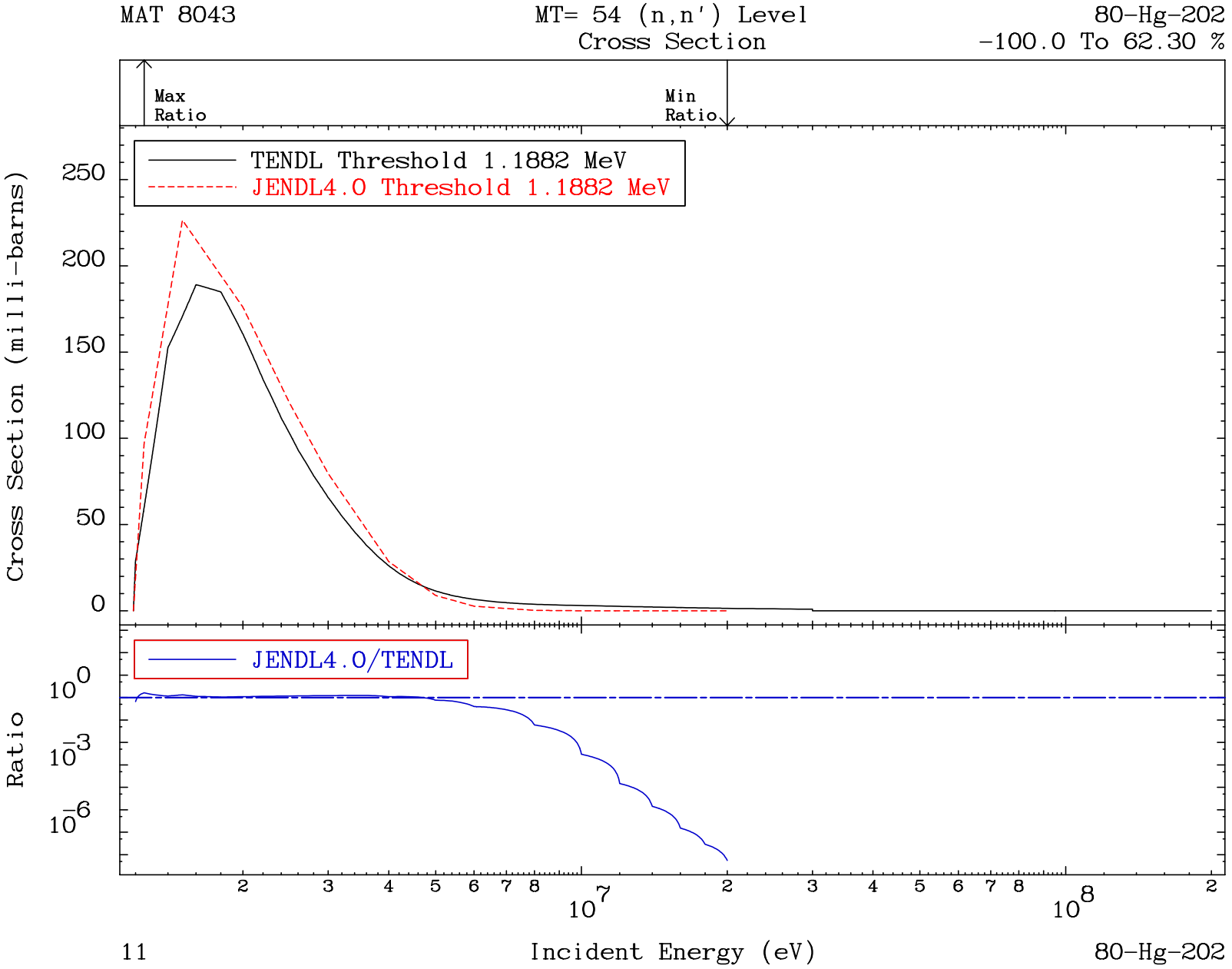

MAT 8043
(n,n') α
Cross Section
80-Hg-202
141.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 37.401 keV
JENDL4.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
0
2
4
6
8
JENDL4.0/TENDL
Ratio
10^0
10^3
10^6
10^5
10^6
10^7
10^8
Incident Energy (eV)
6
80-Hg-202

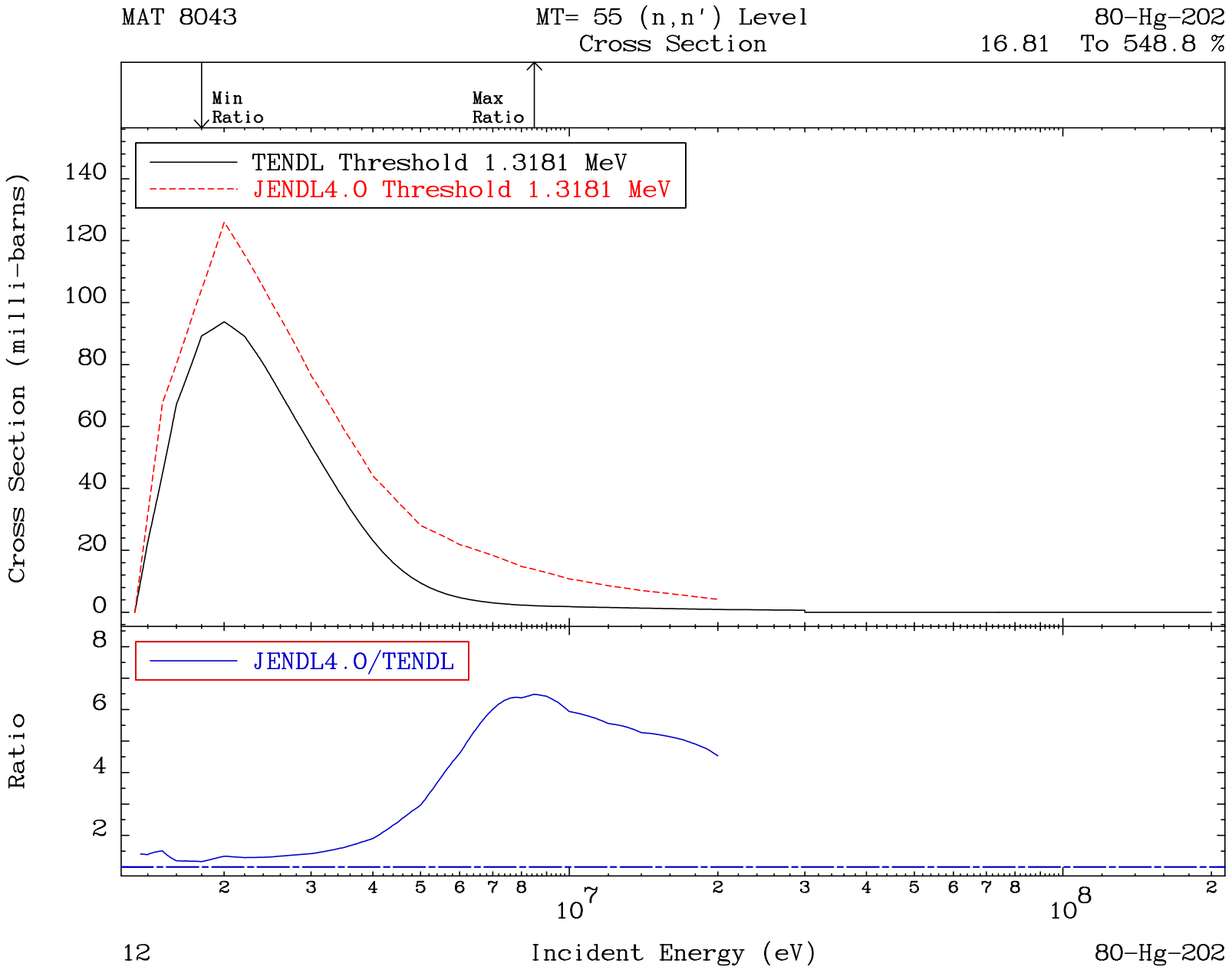

MAT 8043
(n,n') p
Cross Section
80-Hg-202
-16.91 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.2747 MeV
JENDL4.0 Threshold 8.5176 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
80-Hg-202

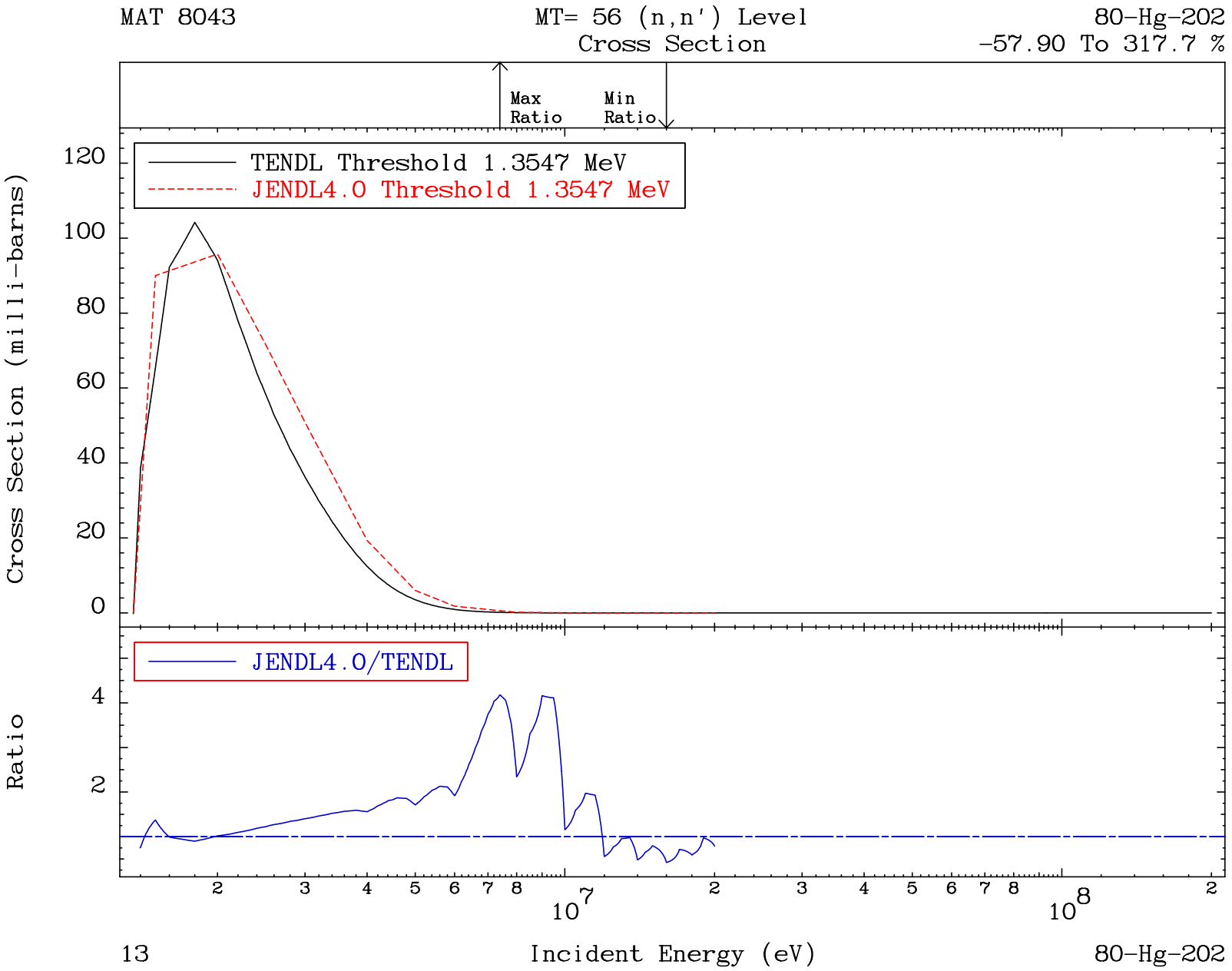

MAT 8043
MT= 51 (n,n') Level
Cross Section
80-Hg-202
-6.246 To 84.38 %
Min
Ratio
Max
Ratio
TENDL Threshold 441.71 keV
JENDL4.0 Threshold 441.79 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
2.0
1.6
1.2
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
80-Hg-202

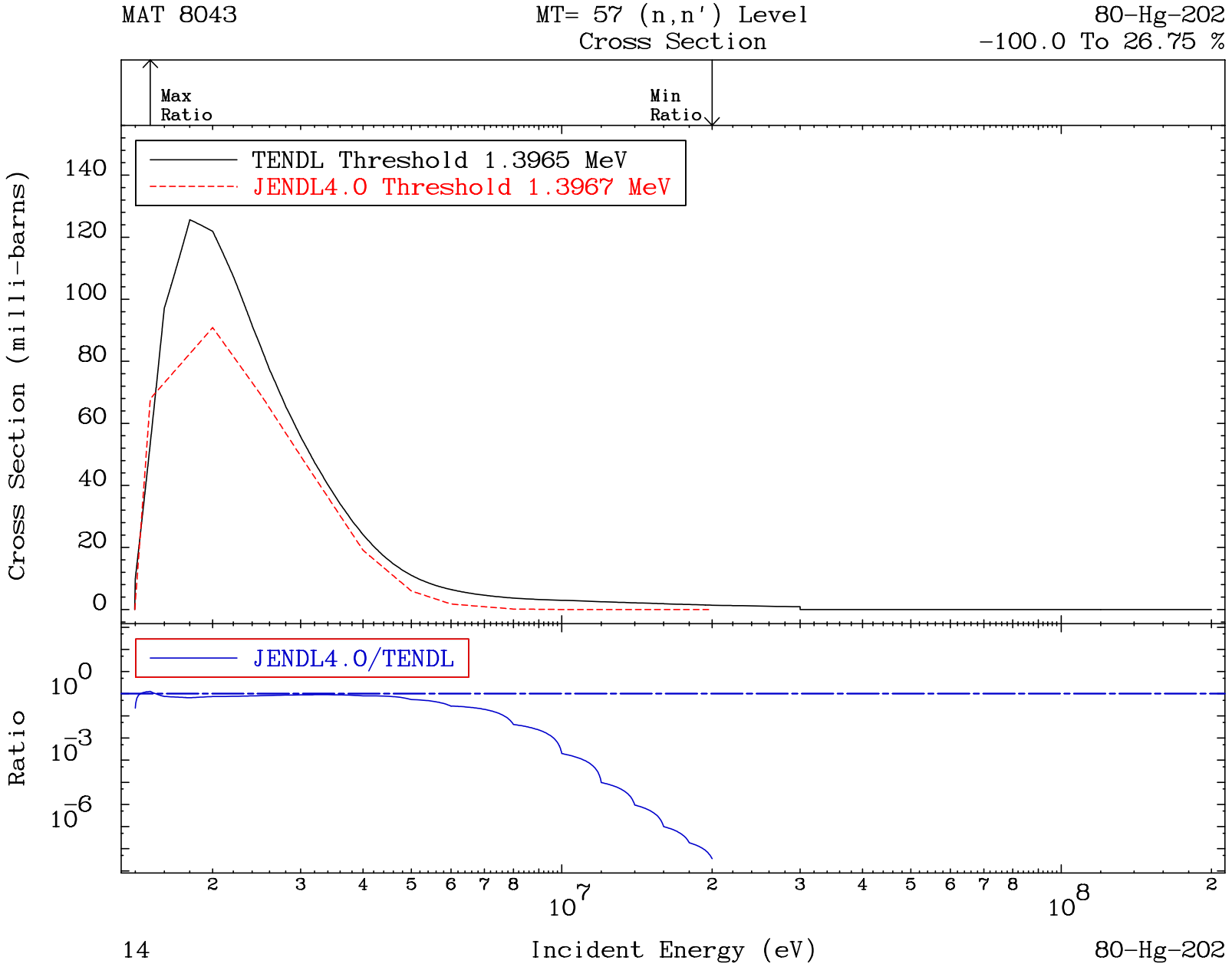

MAT 8043
MT= 52 (n,n') Level
Cross Section
80-Hg-202
-58.46 To 40.18 %
Max
Ratio
Min
Ratio
TENDL Threshold 964.73 keV
JENDL4.0 Threshold 964.49 keV
Cross Section (milli-barns)
400
300
200
100
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
10^6
10^7
10^8
Incident Energy (eV)
9
80-Hg-202

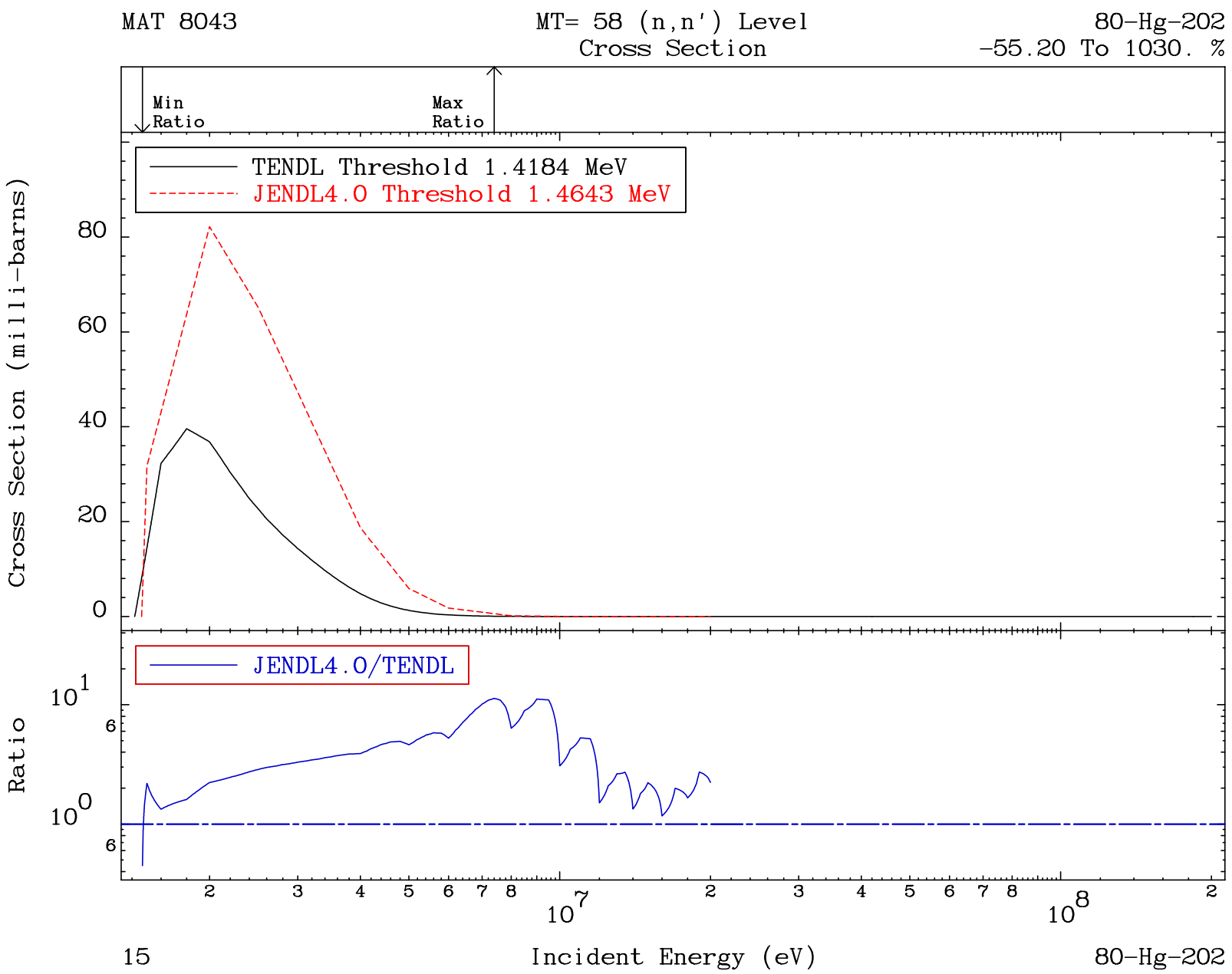

MAT 8043
MT= 53 (n,n') Level
Cross Section
80-Hg-202
-54.17 To 48.25 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.1254 MeV
JENDL4.0 Threshold 1.1253 MeV
Cross Section (milli-barns)
160
120
80
40
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
80-Hg-202

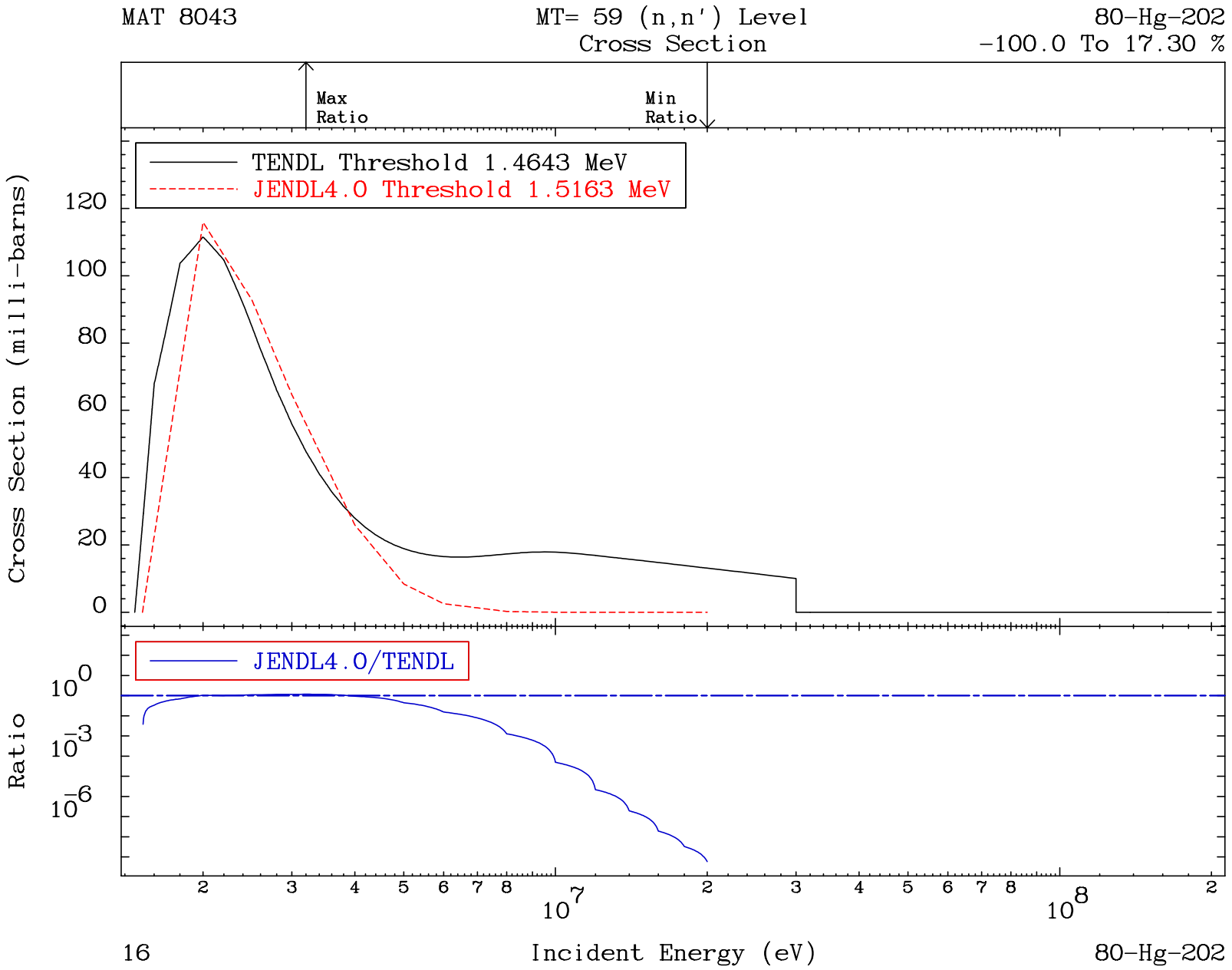

MAT 8043
MT= 54 (n,n') Level
Cross Section
80-Hg-202
-100.0 To 62.30 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.1882 MeV
JENDL4.0 Threshold 1.1882 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
11
Incident Energy (eV)
80-Hg-202

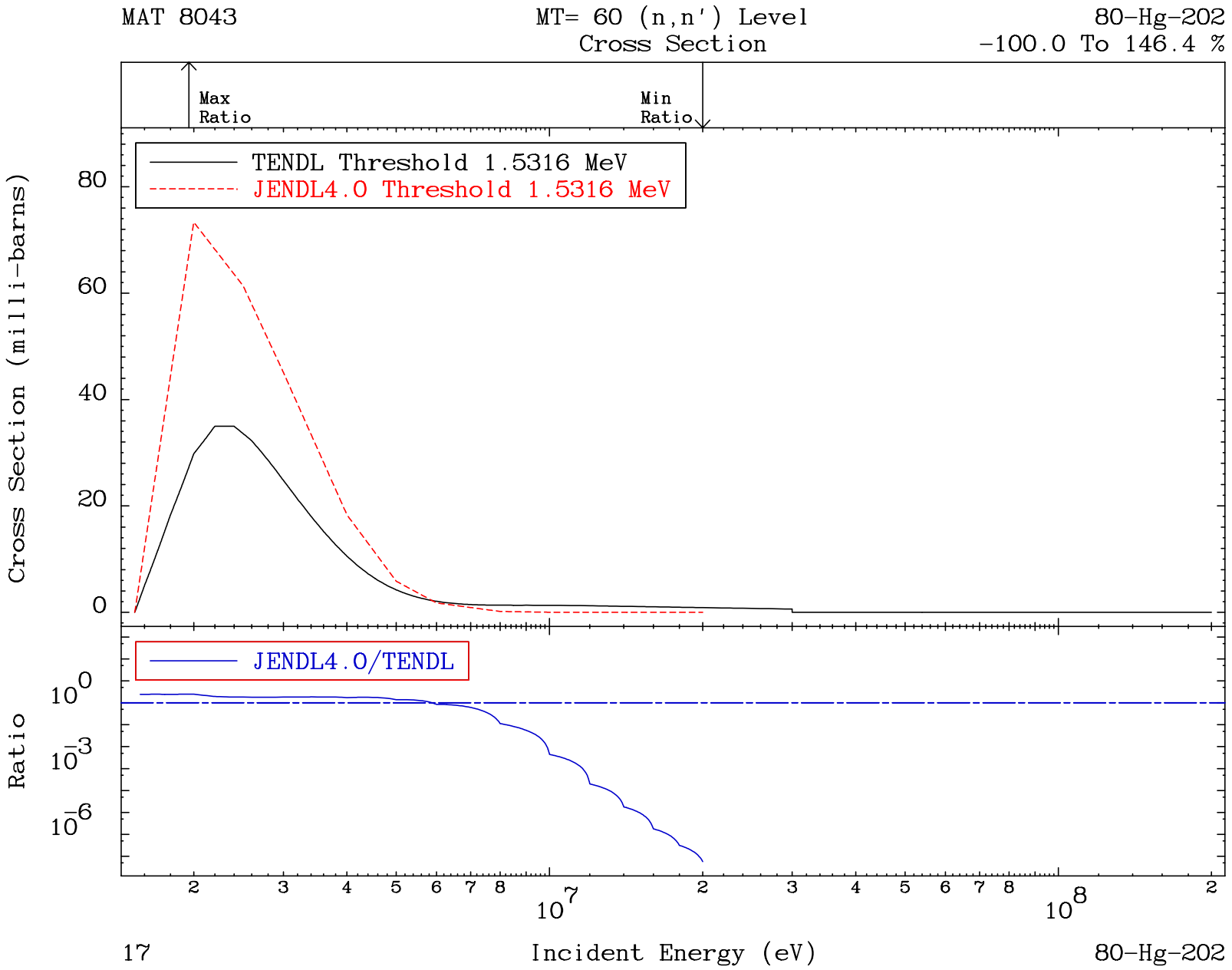

MAT 8043
MT= 55 (n,n') Level
Cross Section
80-Hg-202
16.81 To 548.8 %
Min Ratio
Max Ratio
TENDL Threshold 1.3181 MeV
JENDL4.0 Threshold 1.3181 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
8
6
4
2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
80-Hg-202

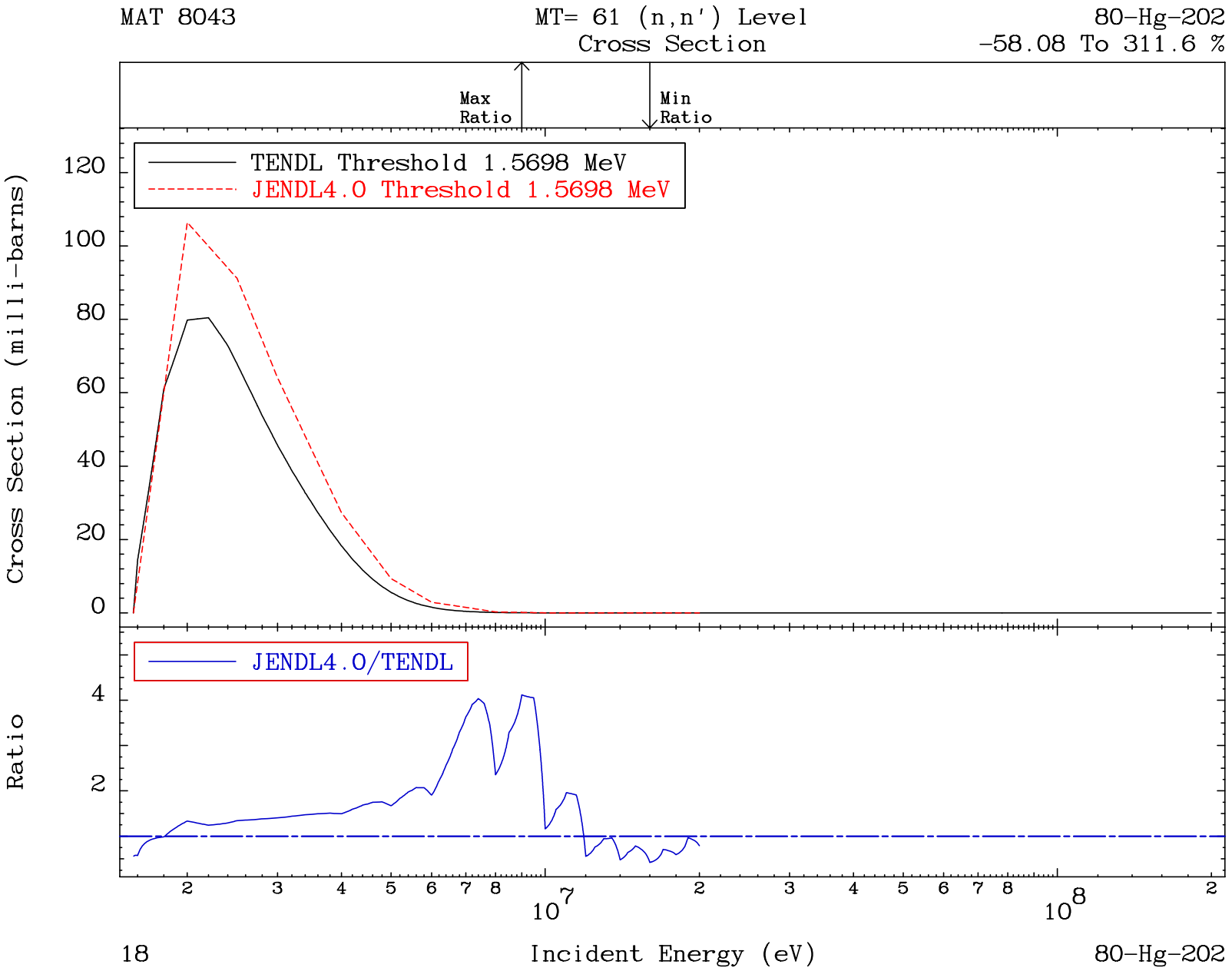

MAT 8043
MT= 56 (n,n') Level
Cross Section
80-Hg-202
-57.90 To 317.7 %
Max Ratio
Min Ratio
TENDL Threshold 1.3547 MeV
JENDL4.0 Threshold 1.3547 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
4
2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
80-Hg-202

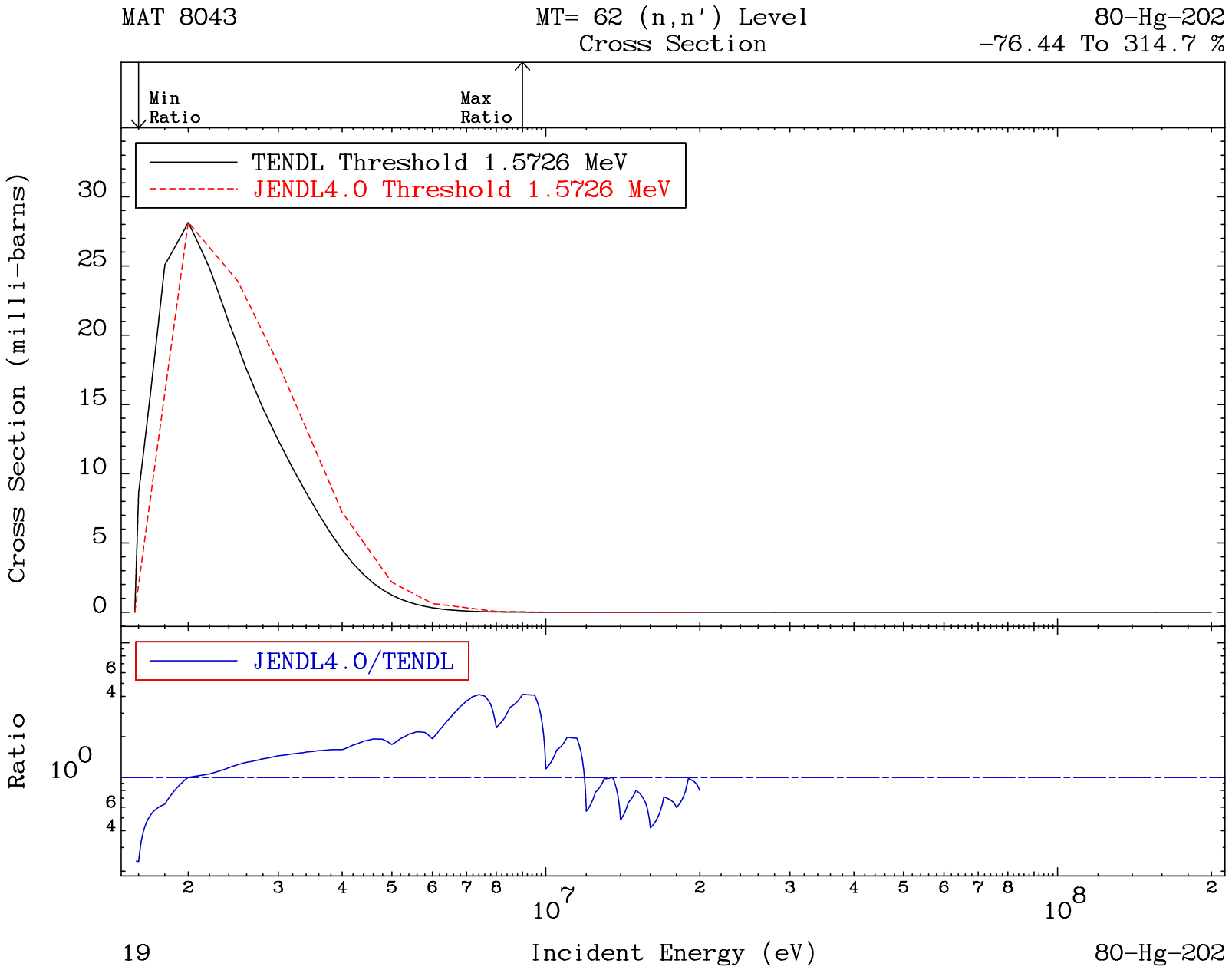

MAT 8043
MT= 57 (n,n') Level
Cross Section
80-Hg-202
-100.0 To 26.75 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.3965 MeV
JENDL4.0 Threshold 1.3967 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
80-Hg-202

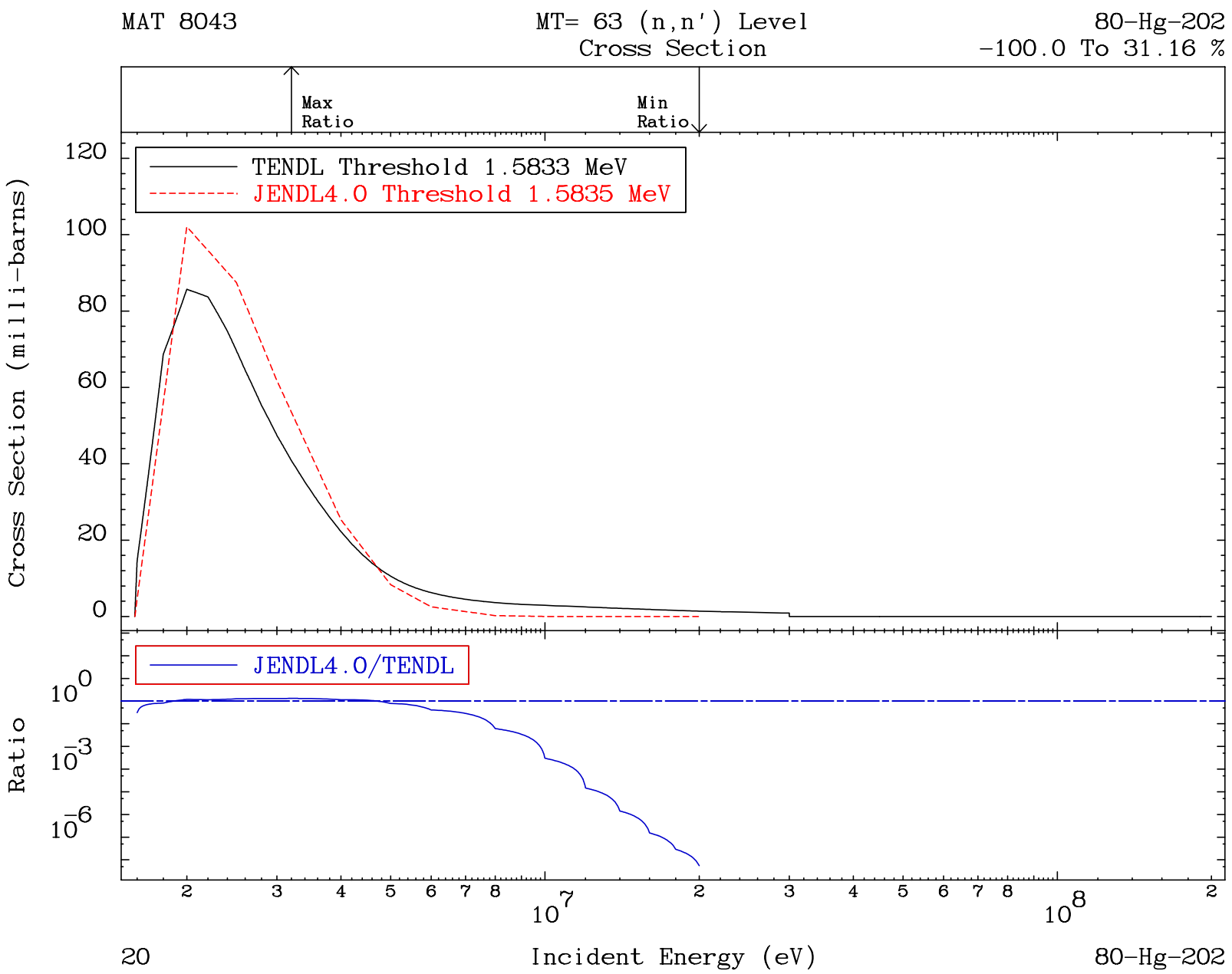

MAT 8043
MT= 58 (n,n') Level
Cross Section
80-Hg-202
-55.20 To 1030. %
Min Ratio
Max Ratio
TENDL Threshold 1.4184 MeV
JENDL4.0 Threshold 1.4643 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^1
6
10^0
6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
80-Hg-202

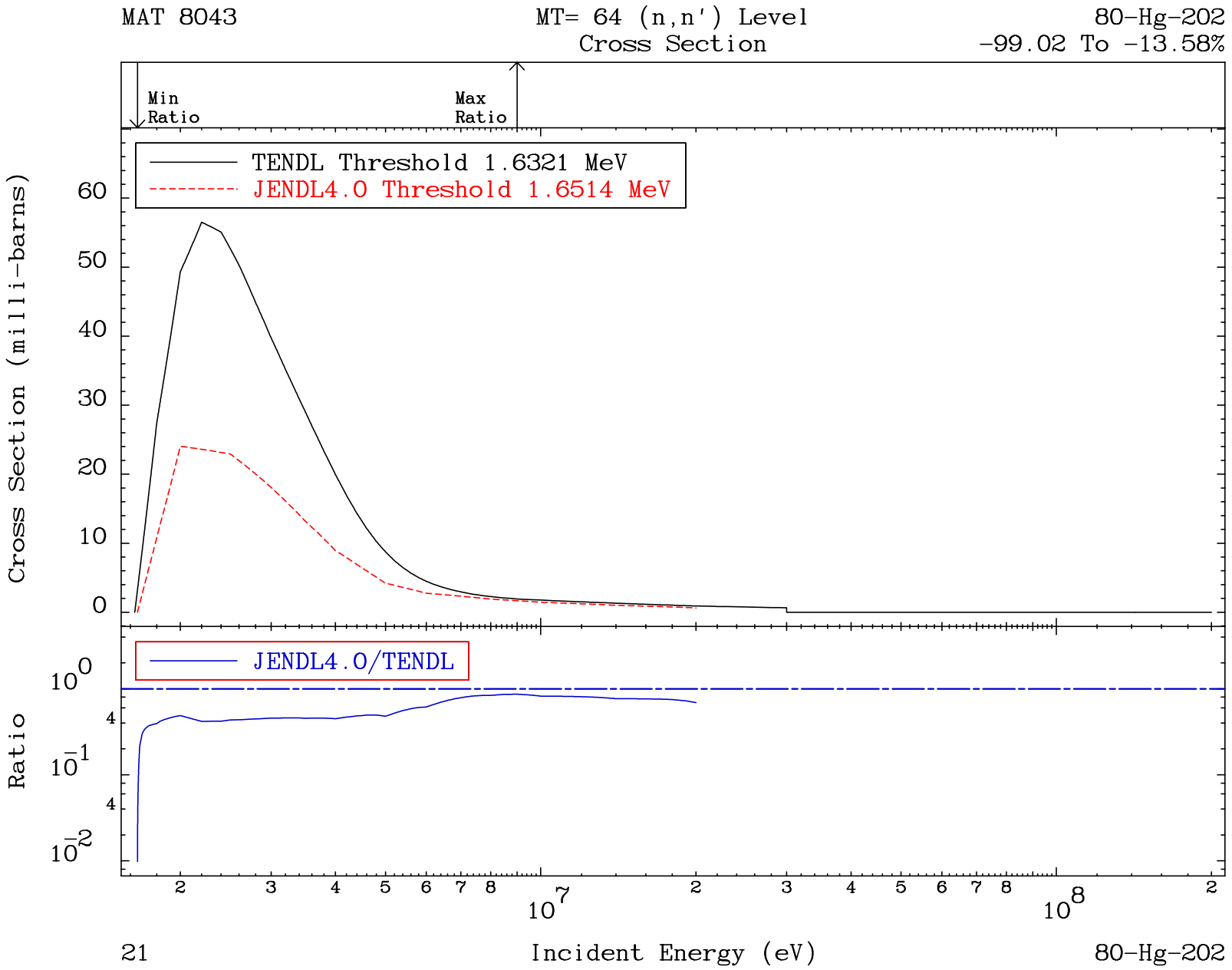

MAT 8043
MT= 59 (n,n') Level
Cross Section
80-Hg-202
-100.0 To 17.30 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.4643 MeV
JENDL4.0 Threshold 1.5163 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
80-Hg-202

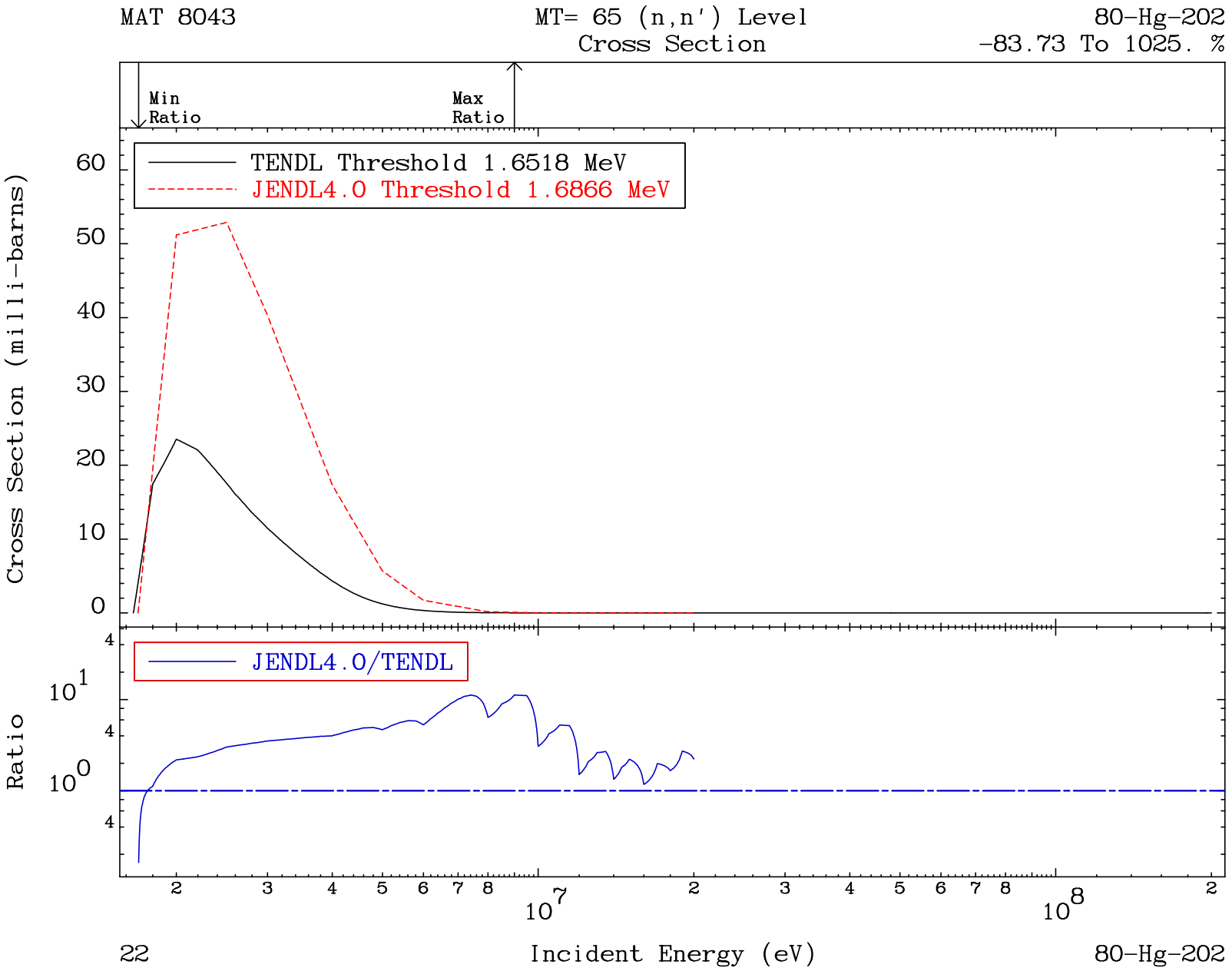

MAT 8043
MT= 60 (n,n') Level
Cross Section
80-Hg-202
-100.0 To 146.4 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.5316 MeV
JENDL4.0 Threshold 1.5316 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
80-Hg-202

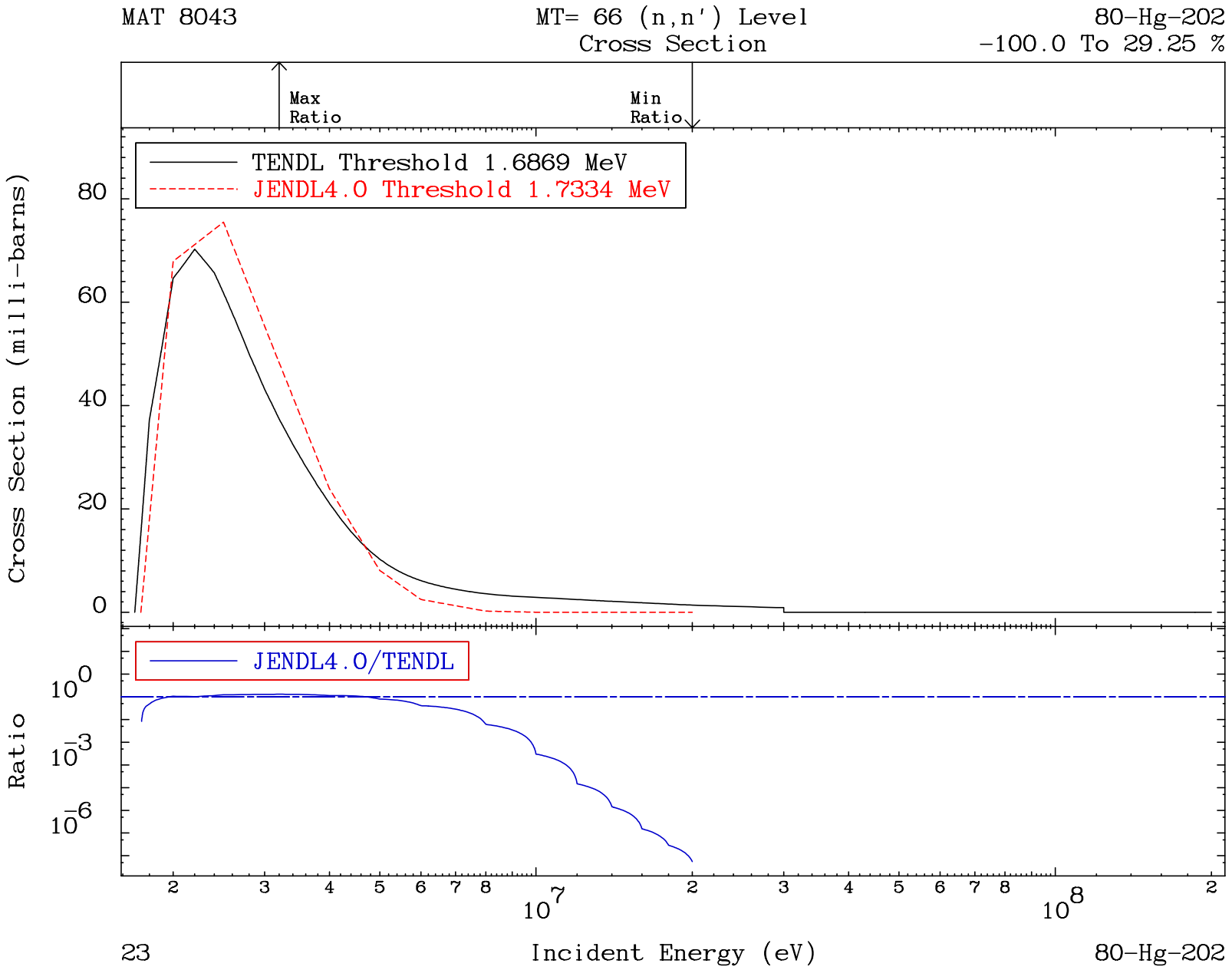

MAT 8043
MT= 61 (n,n') Level
Cross Section
80-Hg-202
-58.08 To 311.6 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.5698 MeV
JENDL4.0 Threshold 1.5698 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
4
2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
80-Hg-202

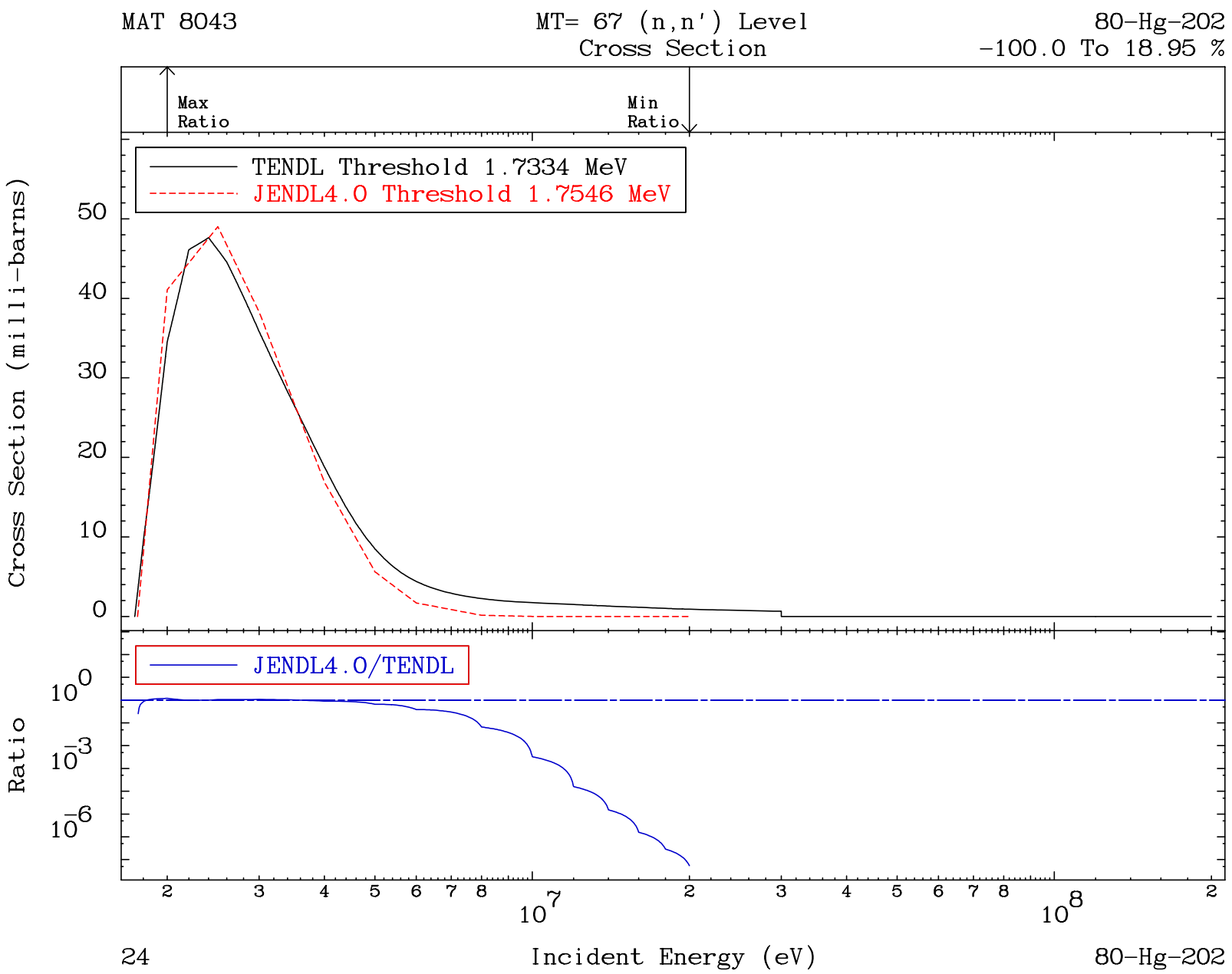

MAT 8043
MT= 62 (n,n') Level
Cross Section
80-Hg-202
-76.44 To 314.7 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.5726 MeV
JENDL4.0 Threshold 1.5726 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
6
4
10^0
6
4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
19
Incident Energy (eV)
80-Hg-202

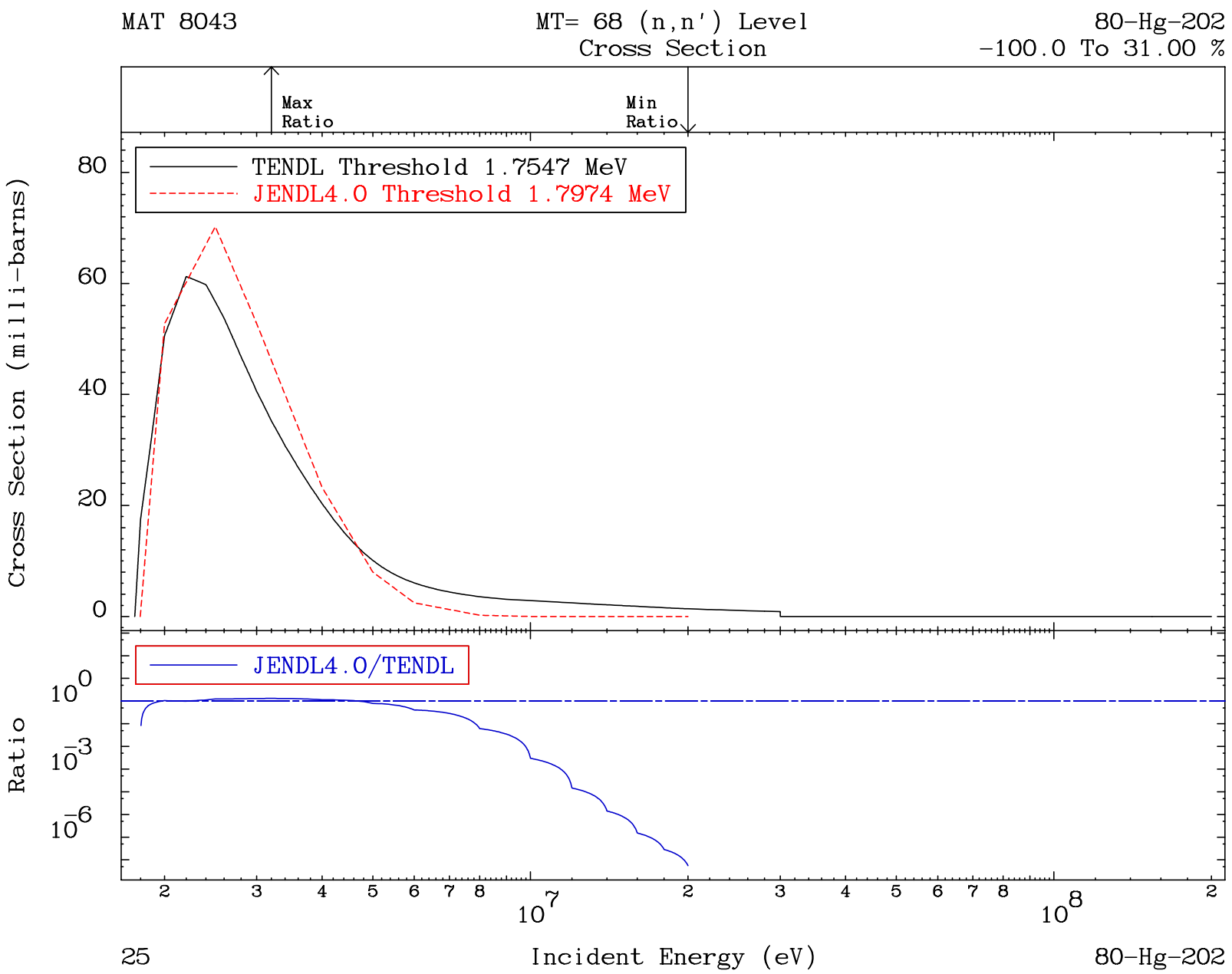

MAT 8043
MT= 63 (n,n') Level
Cross Section
80-Hg-202
-100.0 To 31.16 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.5833 MeV
JENDL4.0 Threshold 1.5835 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
80-Hg-202

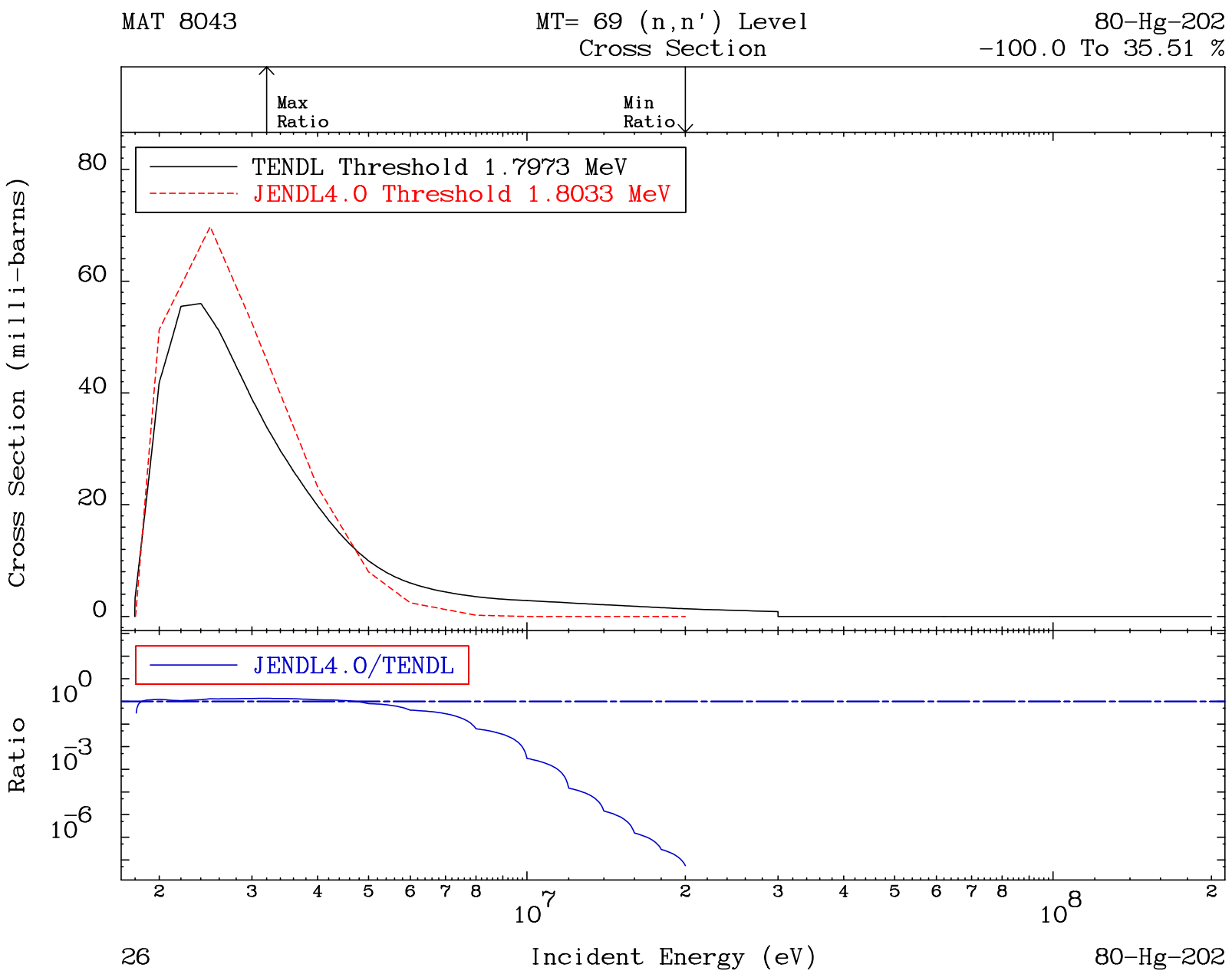

MAT 8043
MT= 64 (n,n') Level
Cross Section
80-Hg-202
-99.02 To -13.58%
Min Ratio
Max Ratio
TENDL Threshold 1.6321 MeV
JENDL4.0 Threshold 1.6514 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
21
80-Hg-202

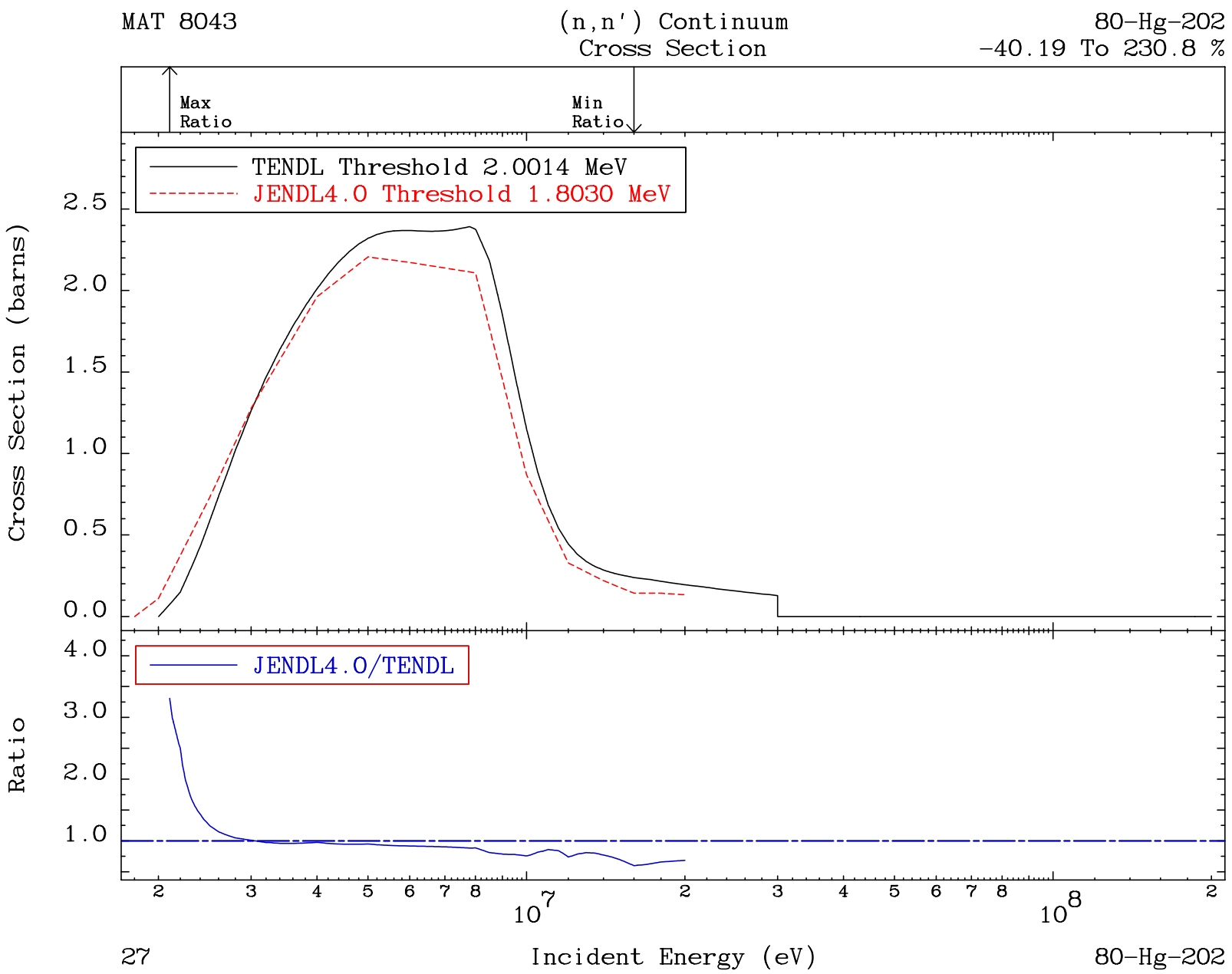

MAT 8043
MT= 65 (n,n') Level
Cross Section
80-Hg-202
-83.73 To 1025. %
Min Ratio
Max Ratio
TENDL Threshold 1.6518 MeV
JENDL4.0 Threshold 1.6866 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
22
80-Hg-202

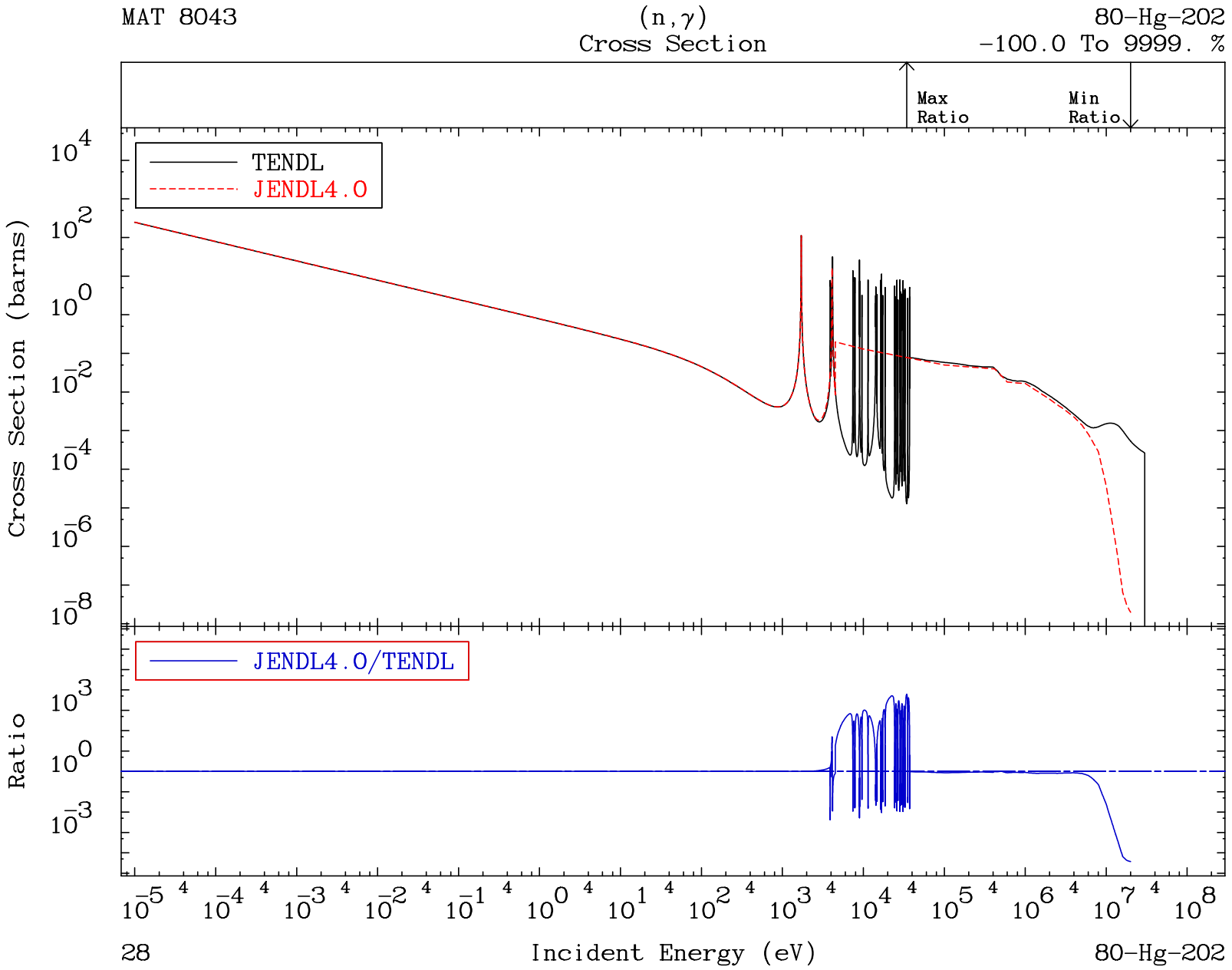

MAT 8043
MT= 66 (n,n') Level
Cross Section
80-Hg-202
-100.0 To 29.25 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.6869 MeV
JENDL4.0 Threshold 1.7334 MeV
Cross Section (milli-barns)
0
20
40
60
80
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
23
Incident Energy (eV)
80-Hg-202

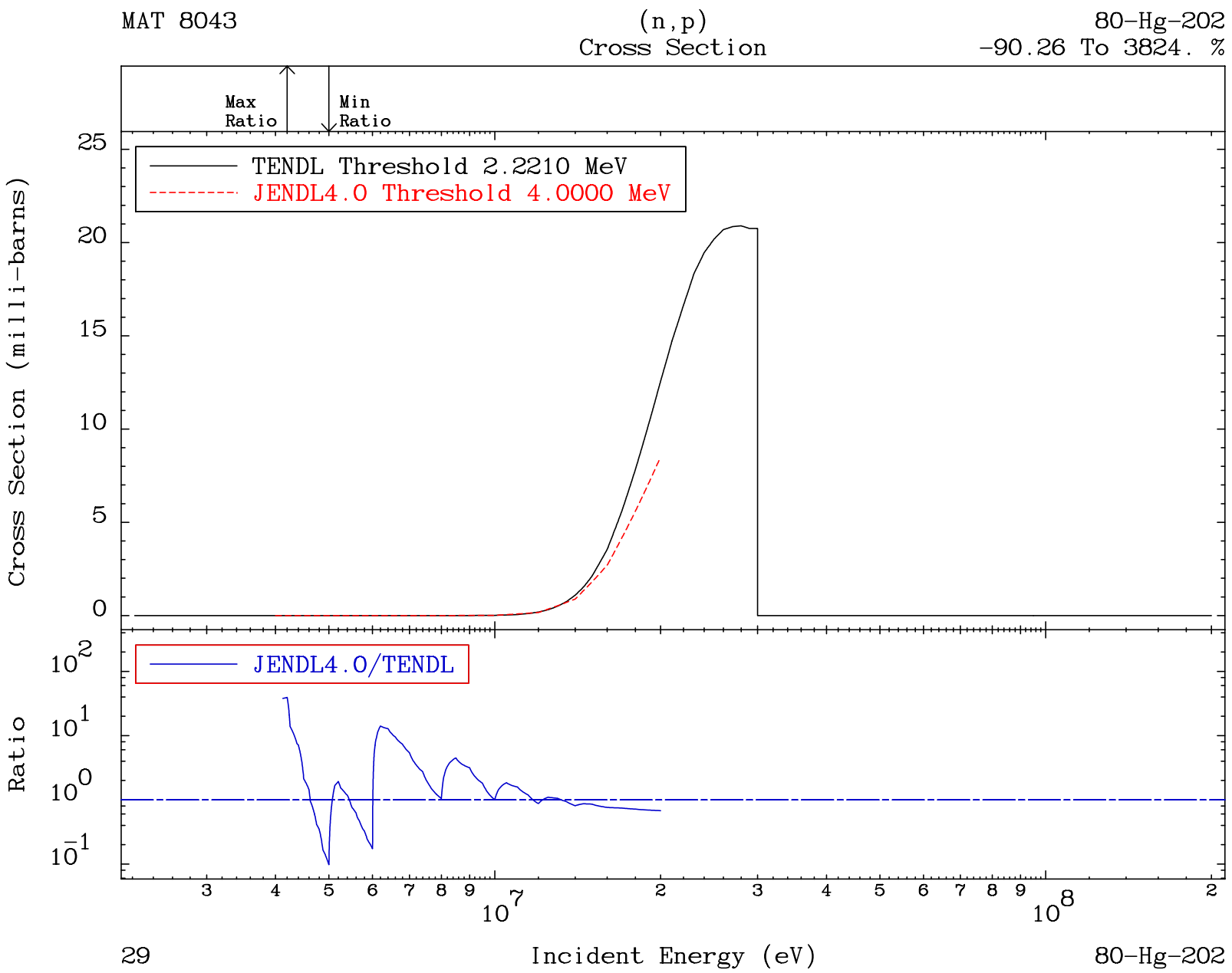

MAT 8043
MT= 67 (n,n') Level
Cross Section
80-Hg-202
-100.0 To 18.95 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.7334 MeV
JENDL4.0 Threshold 1.7546 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
24
Incident Energy (eV)
80-Hg-202

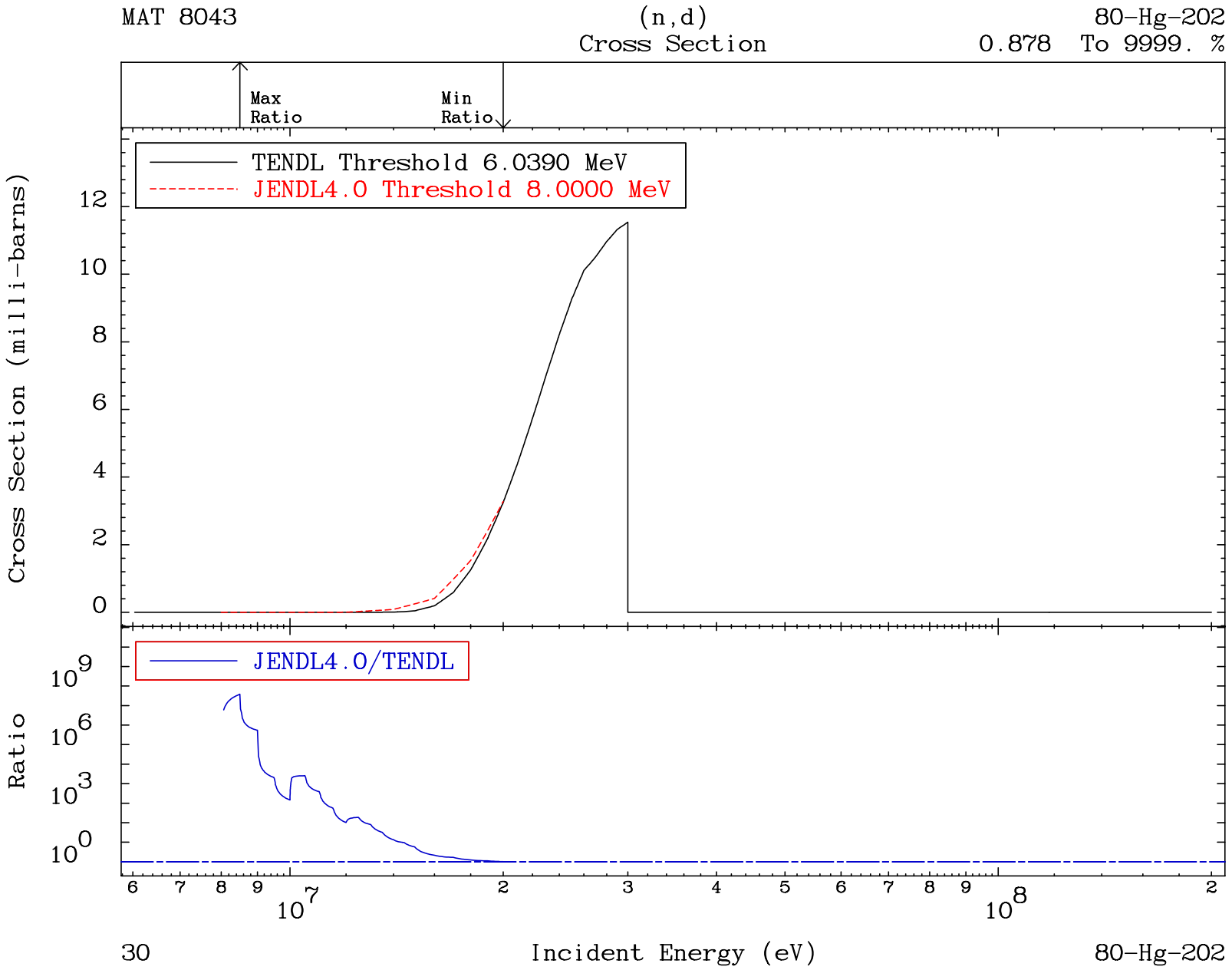

MAT 8043
MT= 68 (n,n') Level
Cross Section
80-Hg-202
-100.0 To 31.00 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.7547 MeV
JENDL4.0 Threshold 1.7974 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
25
Incident Energy (eV)
80-Hg-202

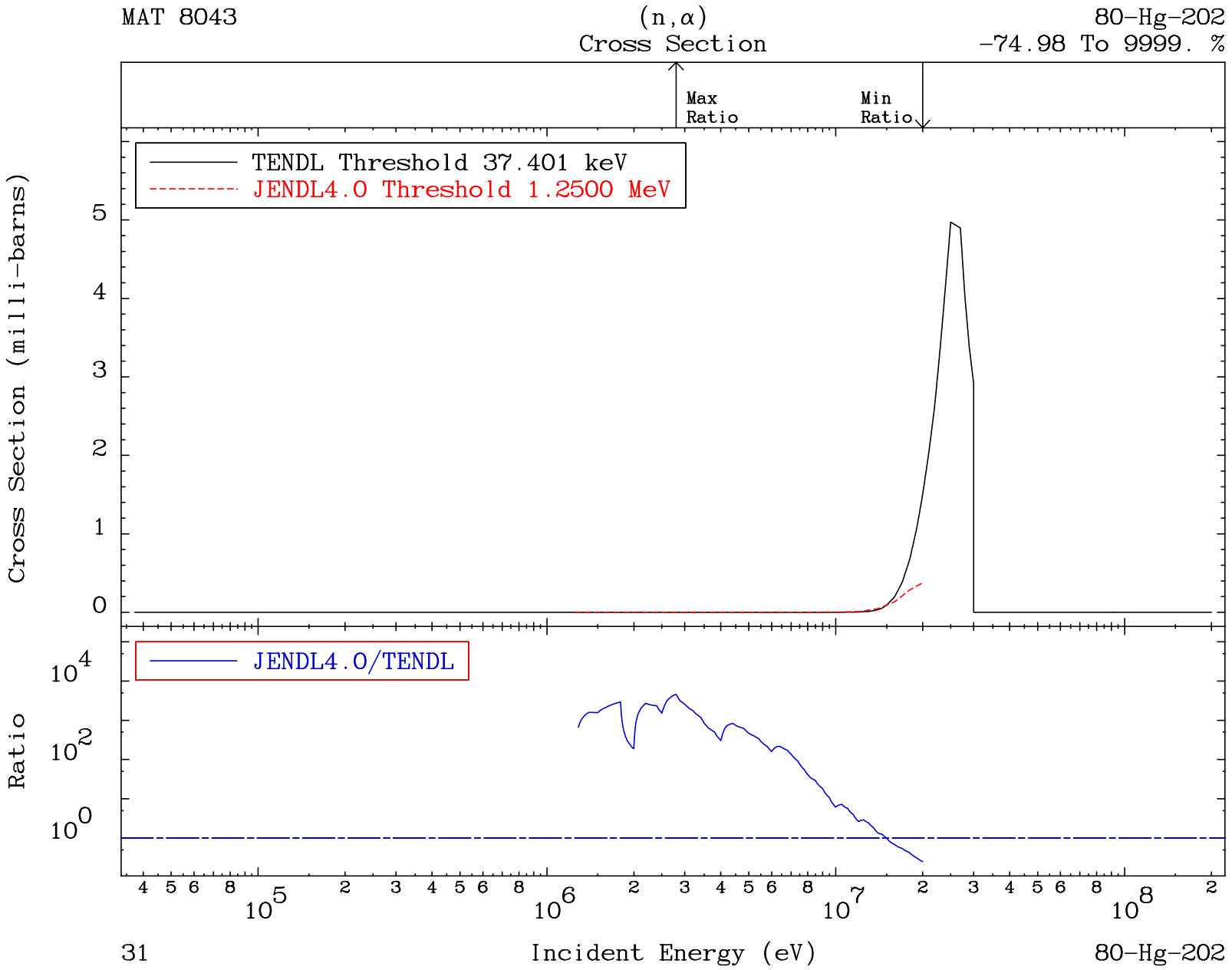

MAT 8043
MT= 69 (n,n') Level
Cross Section
80-Hg-202
-100.0 To 35.51 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.7973 MeV
JENDL4.0 Threshold 1.8033 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
26
Incident Energy (eV)
80-Hg-202

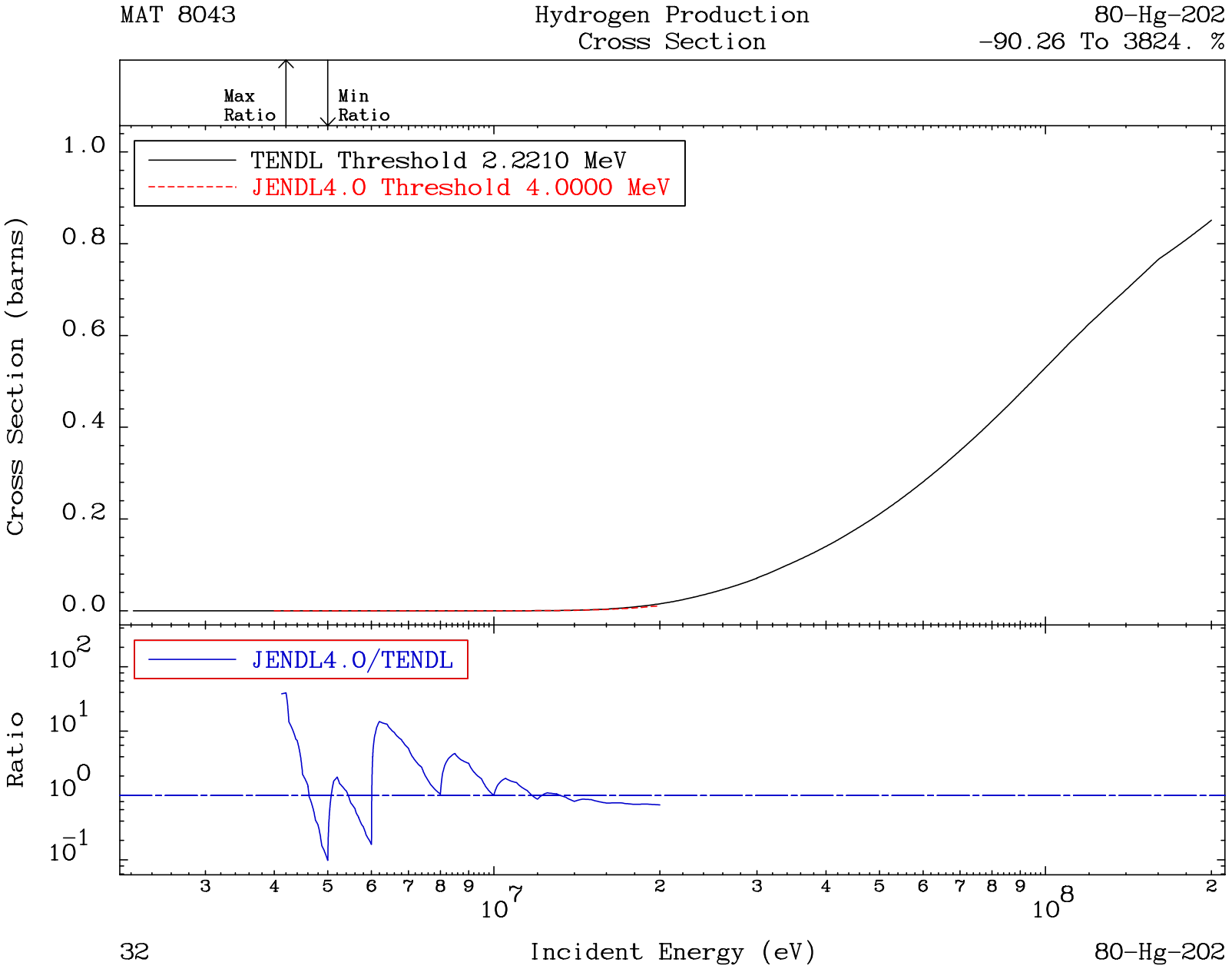

MAT 8043
(n,n') Continuum
Cross Section
80-Hg-202
-40.19 To 230.8 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.0014 MeV
JENDL4.0 Threshold 1.8030 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
4.0
3.0
2.0
1.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
27
Incident Energy (eV)
80-Hg-202

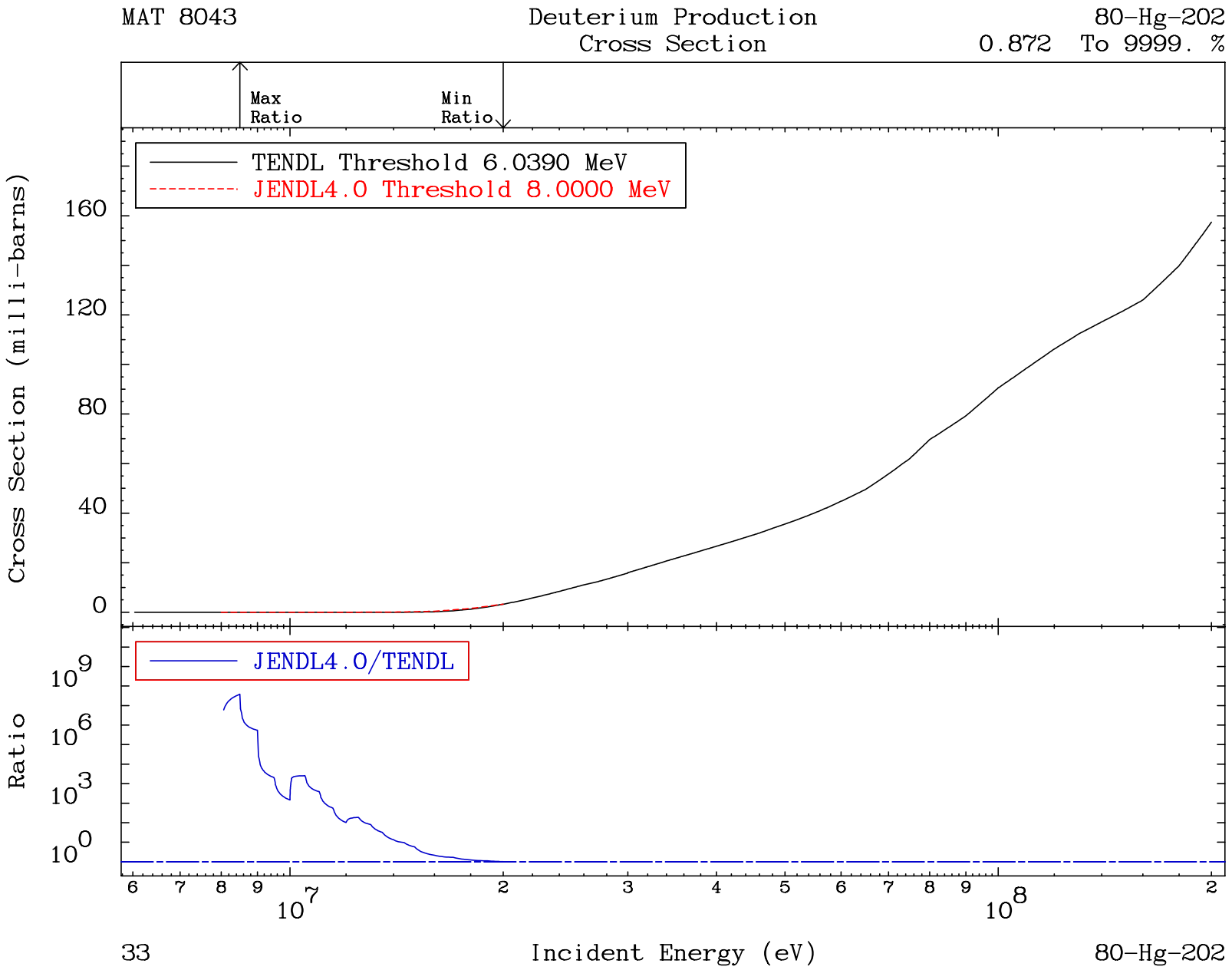

MAT 8043
(n,γ)
Cross Section
80-Hg-202
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
28
80-Hg-202

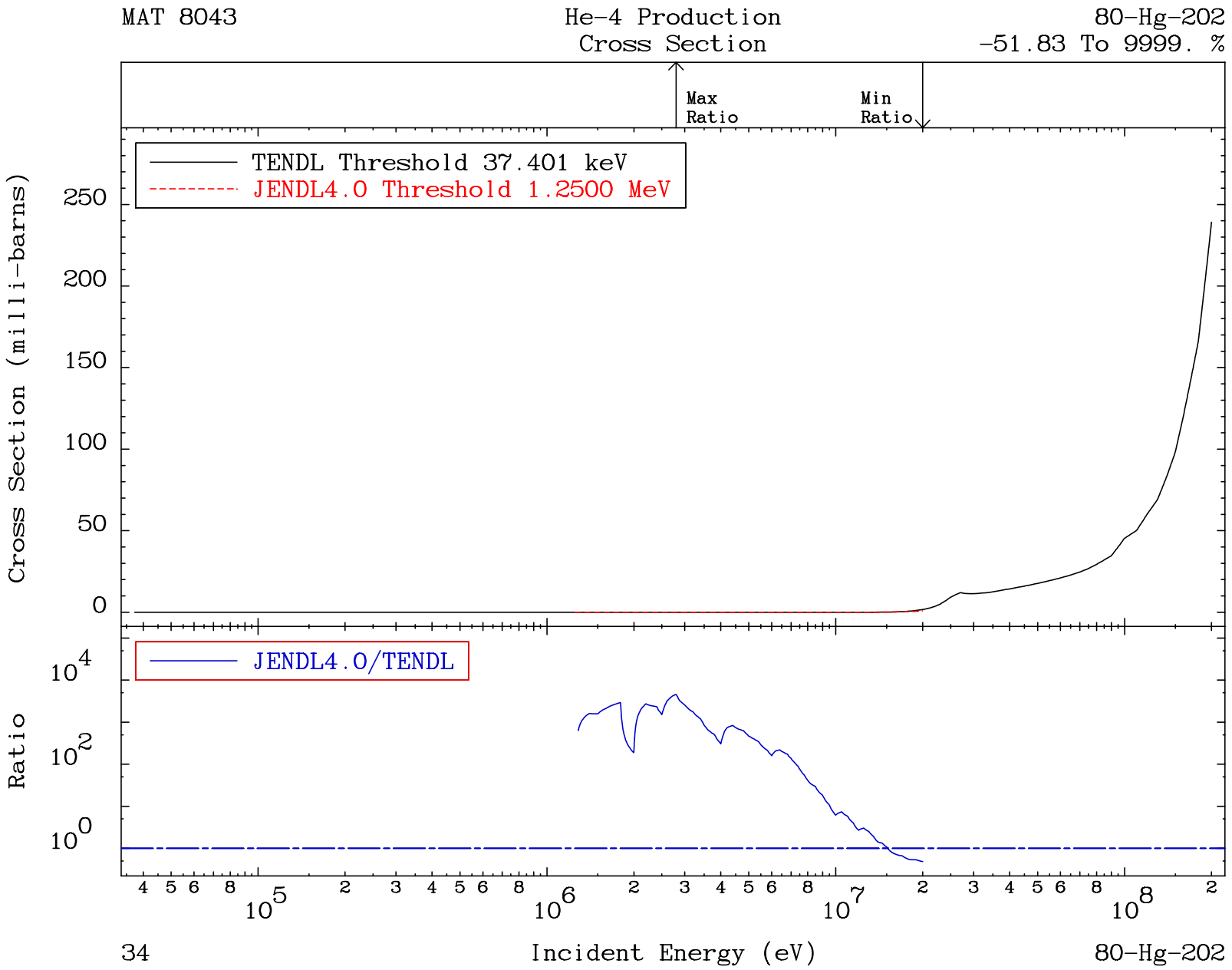

MAT 8043
(n,p)
Cross Section
80-Hg-202
-90.26 To 3824. %
Max Ratio
Min Ratio
TENDL Threshold 2.2210 MeV
JENDL4.0 Threshold 4.0000 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
10^-1
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
80-Hg-202

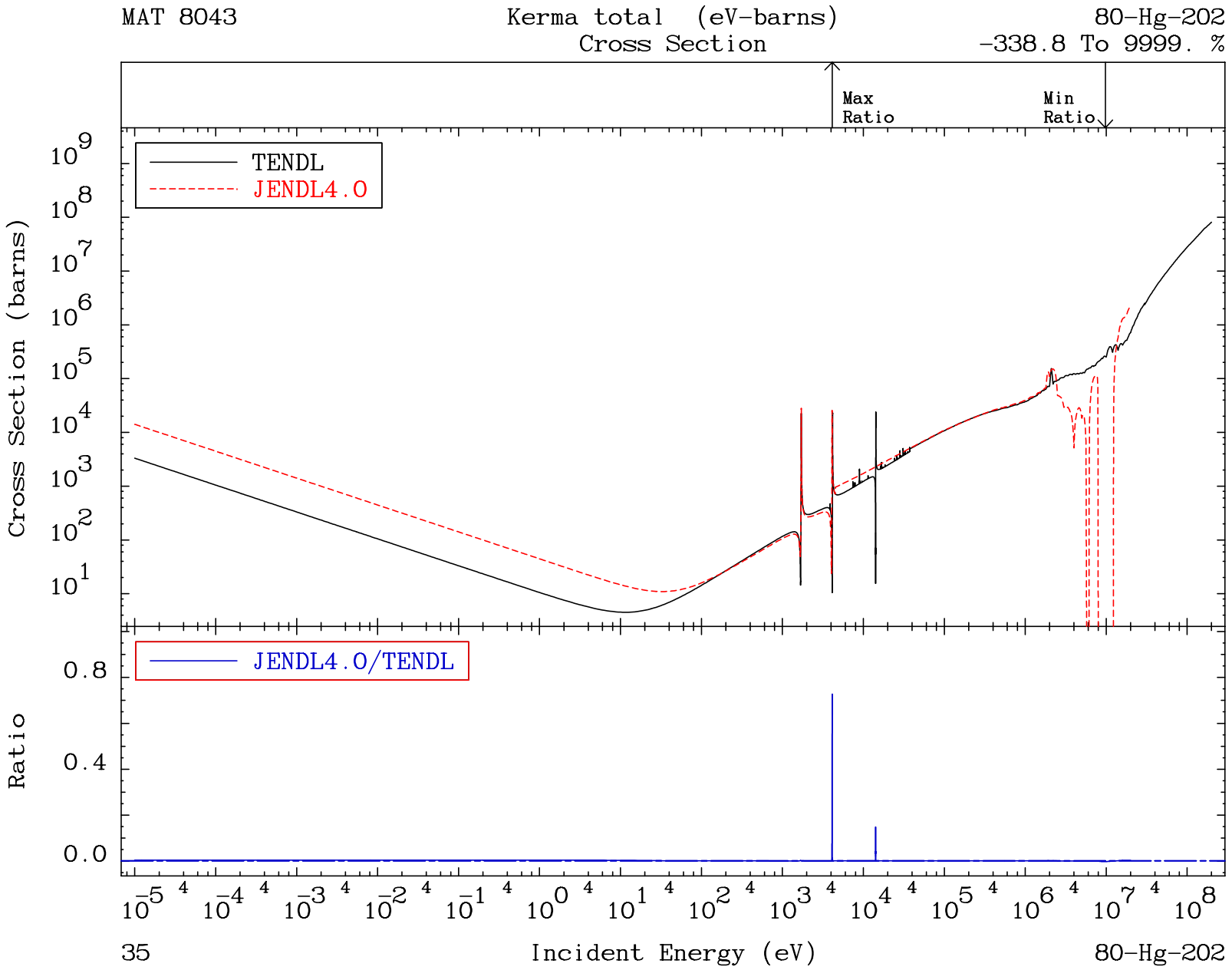

MAT 8043
(n,d)
Cross Section
80-Hg-202
0.878 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.0390 MeV
JENDL4.0 Threshold 8.0000 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
30
80-Hg-202

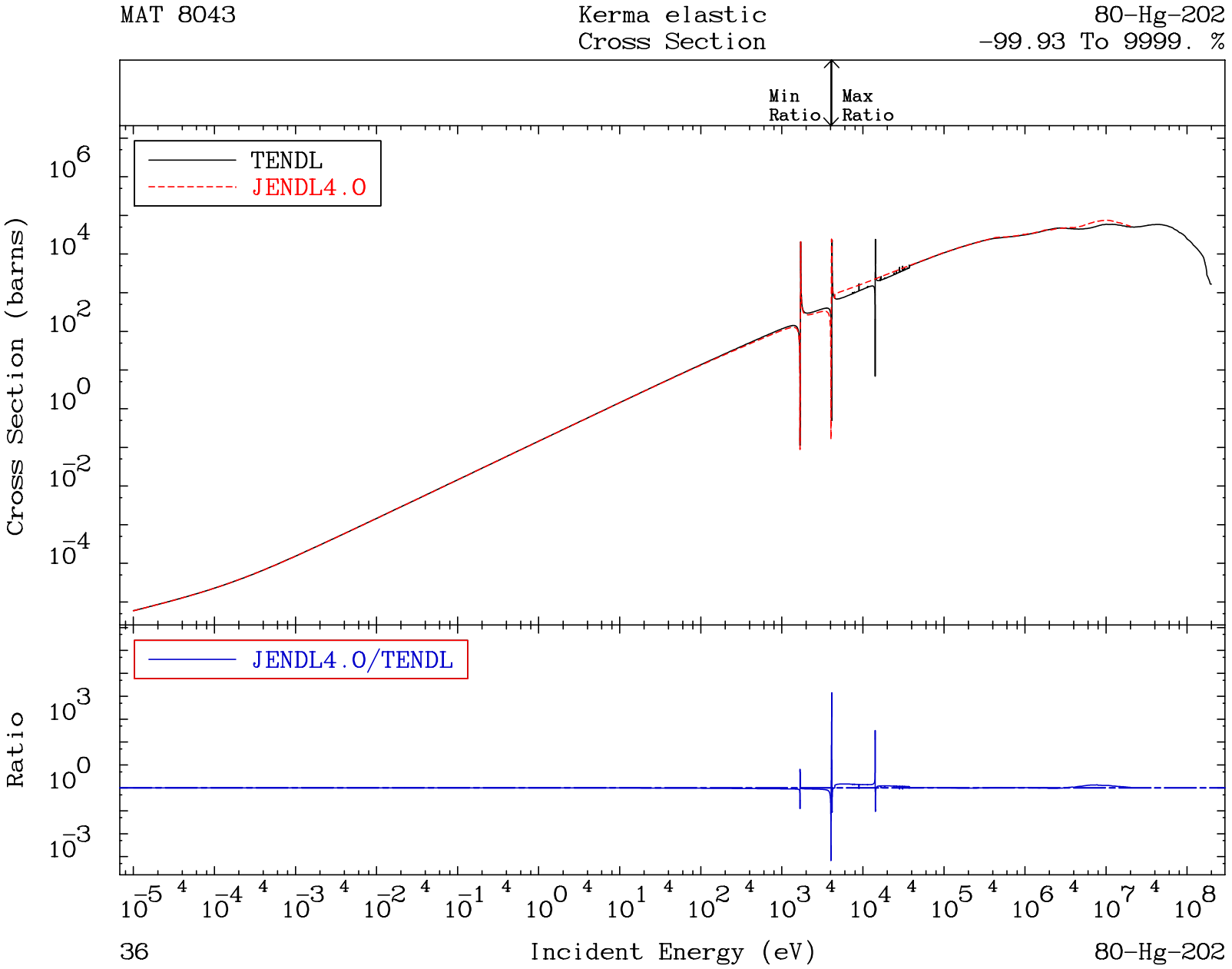

MAT 8043
(n,α)
Cross Section
80-Hg-202
-74.98 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 37.401 keV
JENDL4.0 Threshold 1.2500 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
31
80-Hg-202

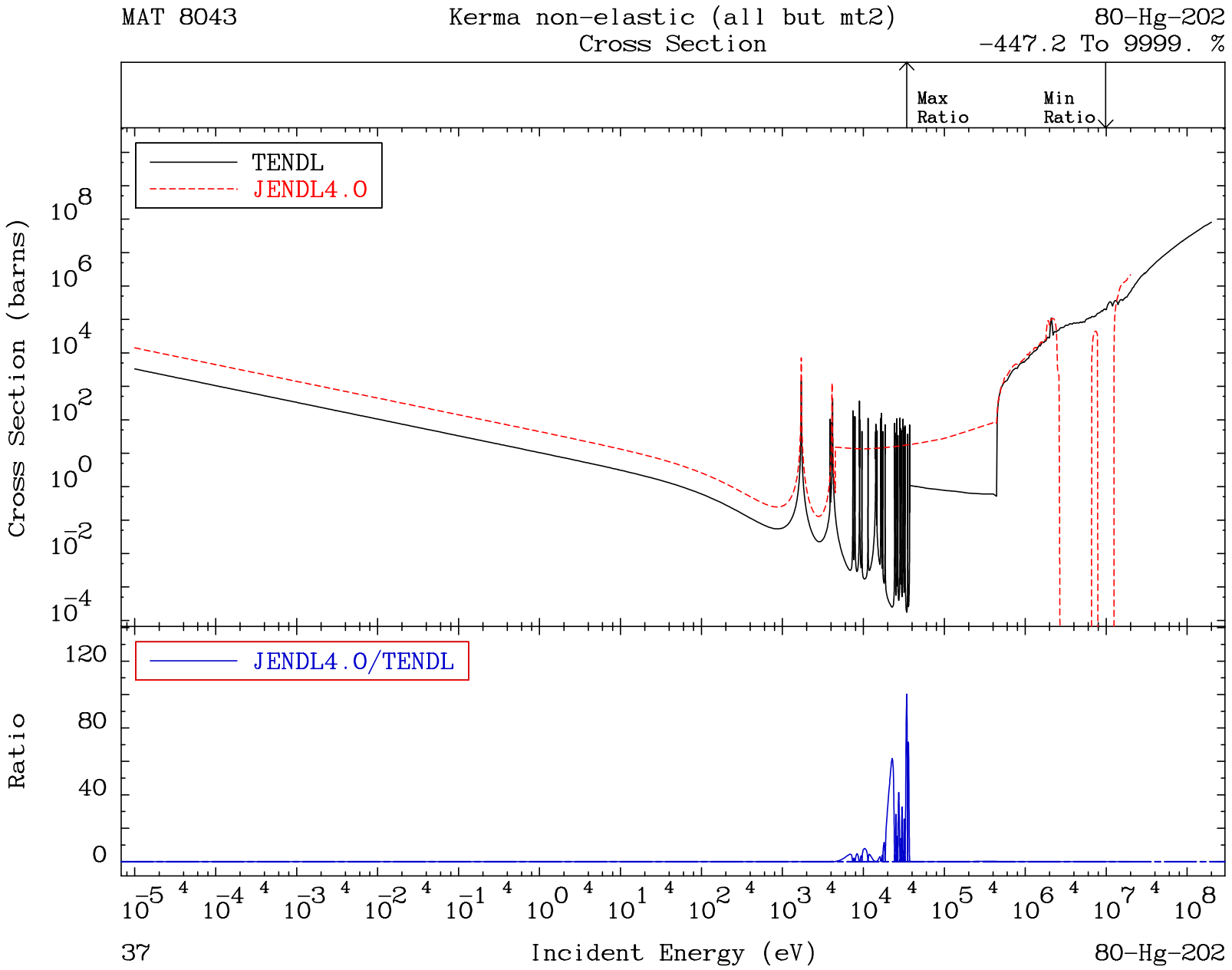

MAT 8043
Hydrogen Production
Cross Section
80-Hg-202
-90.26 To 3824. %
Max Ratio
Min Ratio
TENDL Threshold 2.2210 MeV
JENDL4.0 Threshold 4.0000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
10^-1
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
80-Hg-202

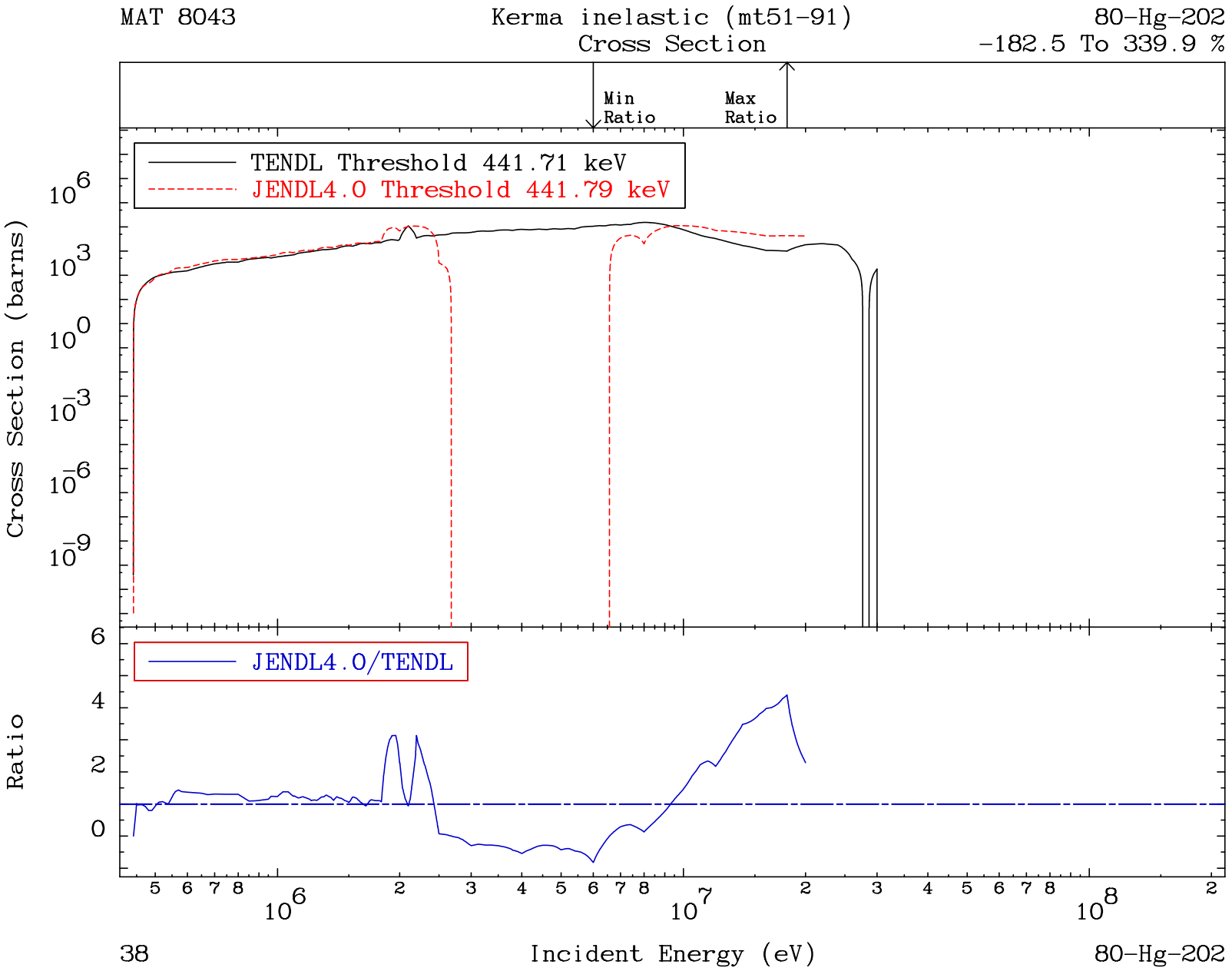

MAT 8043
Deuterium Production
Cross Section
80-Hg-202
0.872 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.0390 MeV
JENDL4.0 Threshold 8.0000 MeV
Cross Section (milli-barns)
160
120
80
40
0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
80-Hg-202

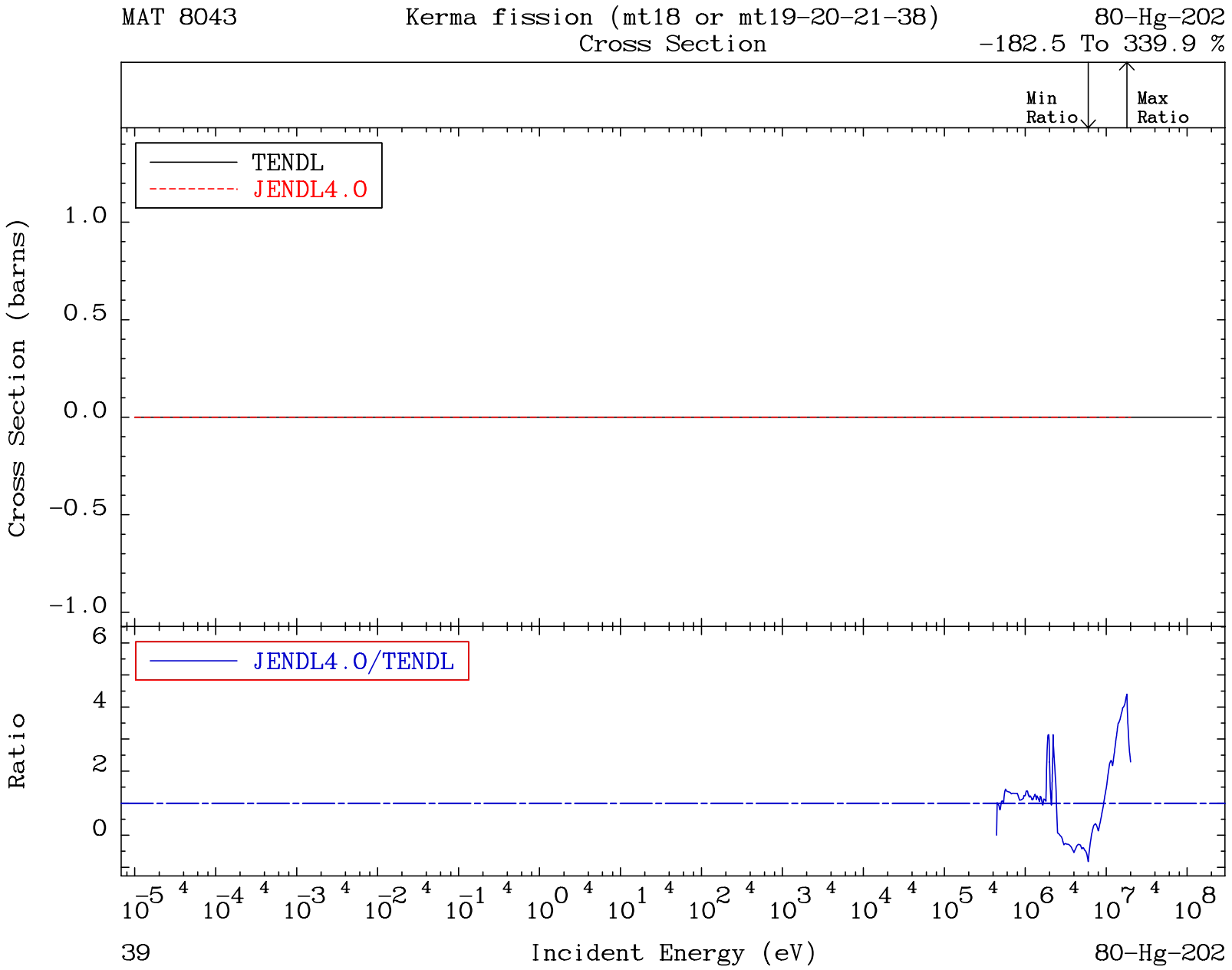

MAT 8043
He-4 Production
Cross Section
80-Hg-202
-51.83 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 37.401 keV
JENDL4.0 Threshold 1.2500 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
34
Incident Energy (eV)
80-Hg-202

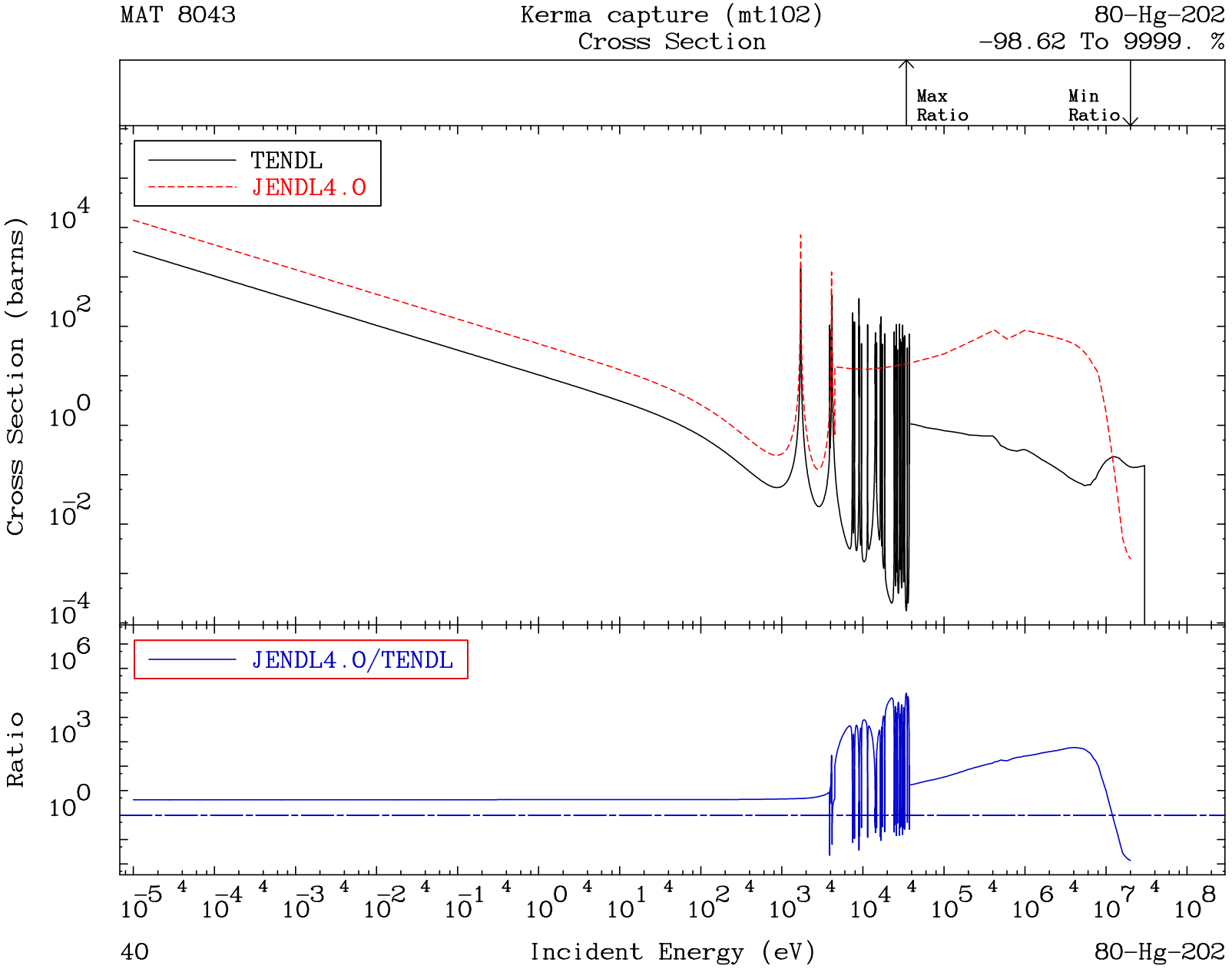

MAT 8043
Kerma total (eV-barns)
Cross Section
80-Hg-202
-338.8 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
35
80-Hg-202

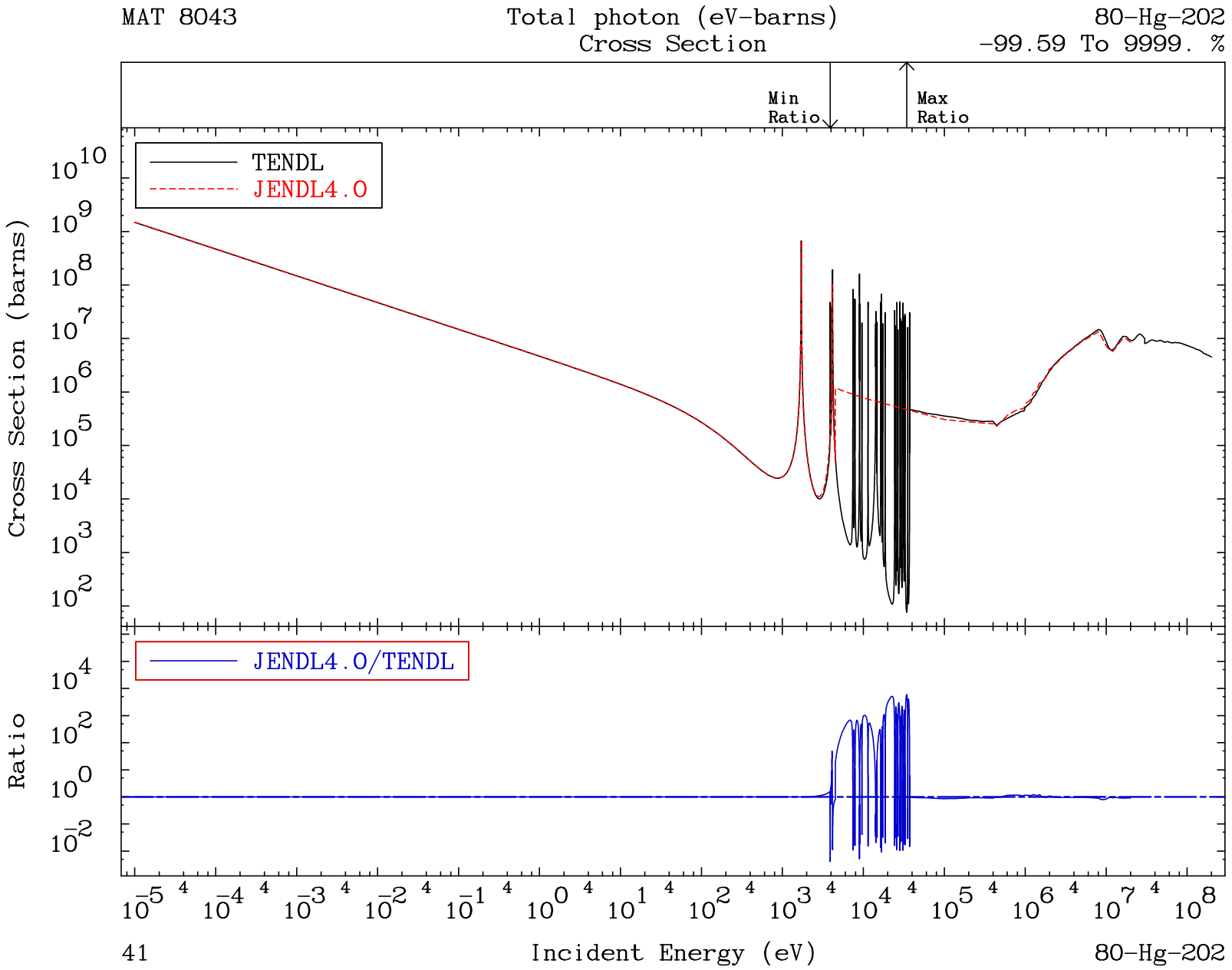

MAT 8043
Kerma elastic
Cross Section
80-Hg-202
-99.93 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
36
80-Hg-202

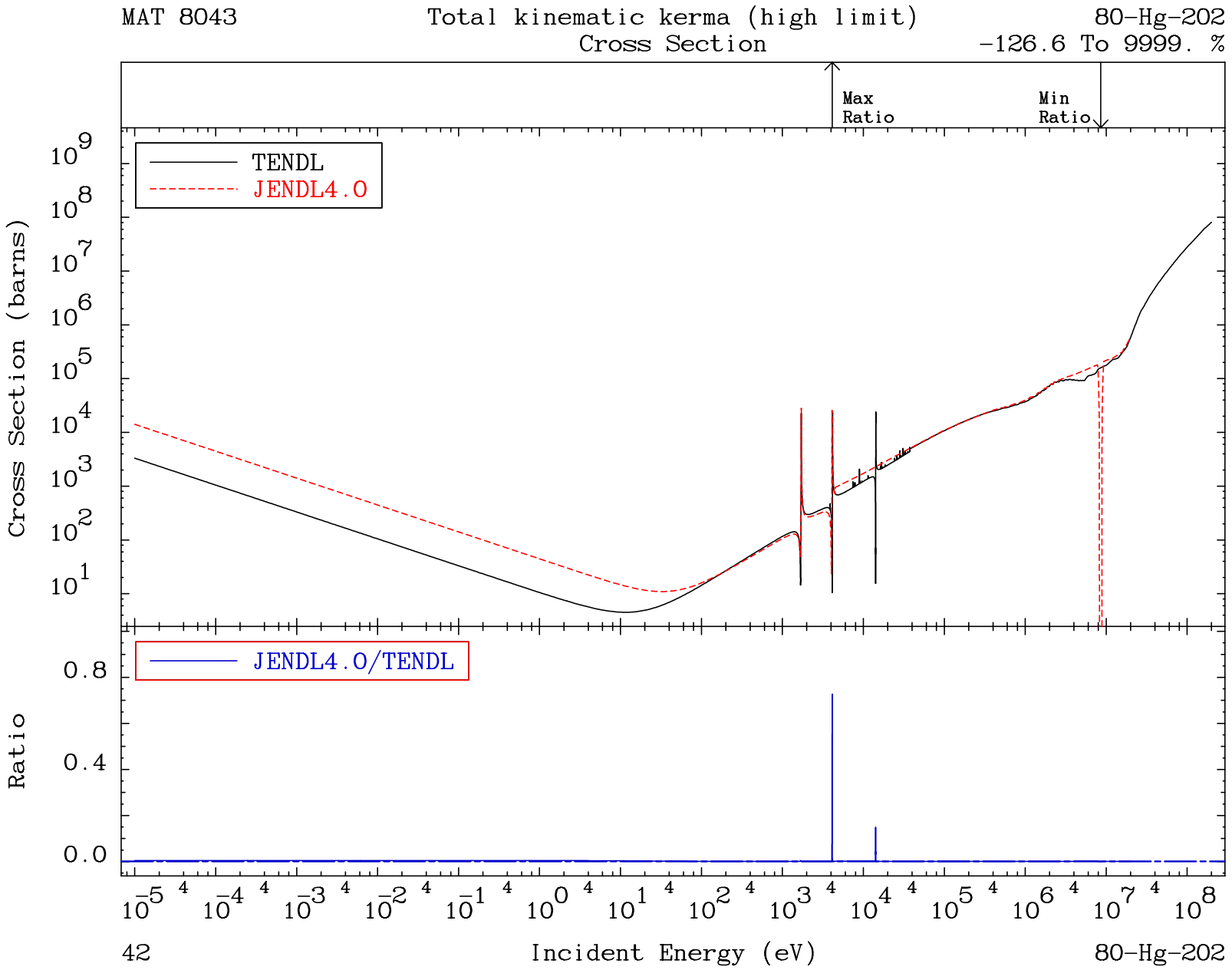

MAT 8043
Kerma non-elastic (all but mt2)
Cross Section
80-Hg-202
-447.2 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
37
80-Hg-202

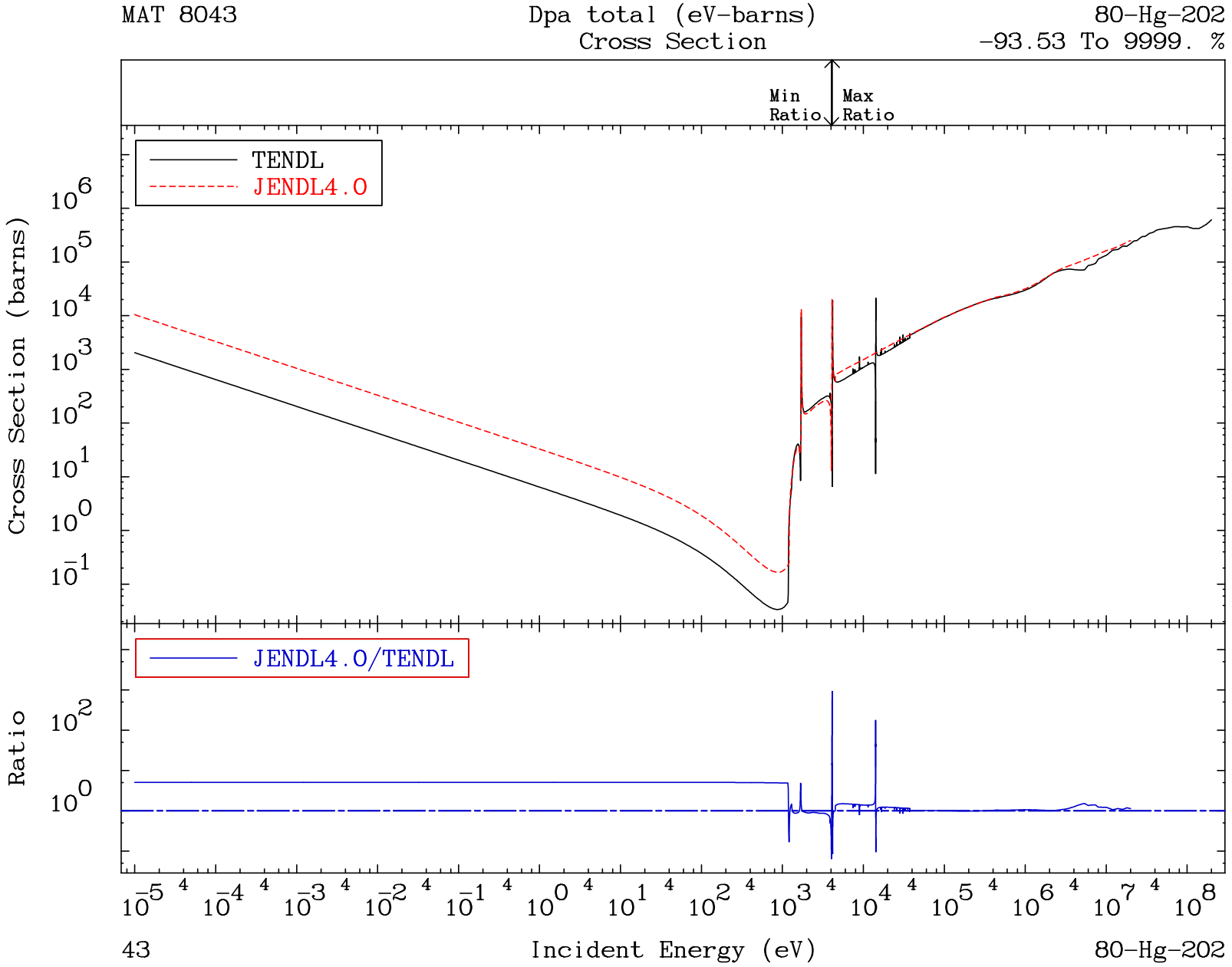

MAT 8043
Kerma inelastic (mt51-91)
Cross Section
80-Hg-202
-182.5 To 339.9 %
Min Ratio
Max Ratio
TENDL Threshold 441.71 keV
JENDL4.0 Threshold 441.79 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
38
80-Hg-202

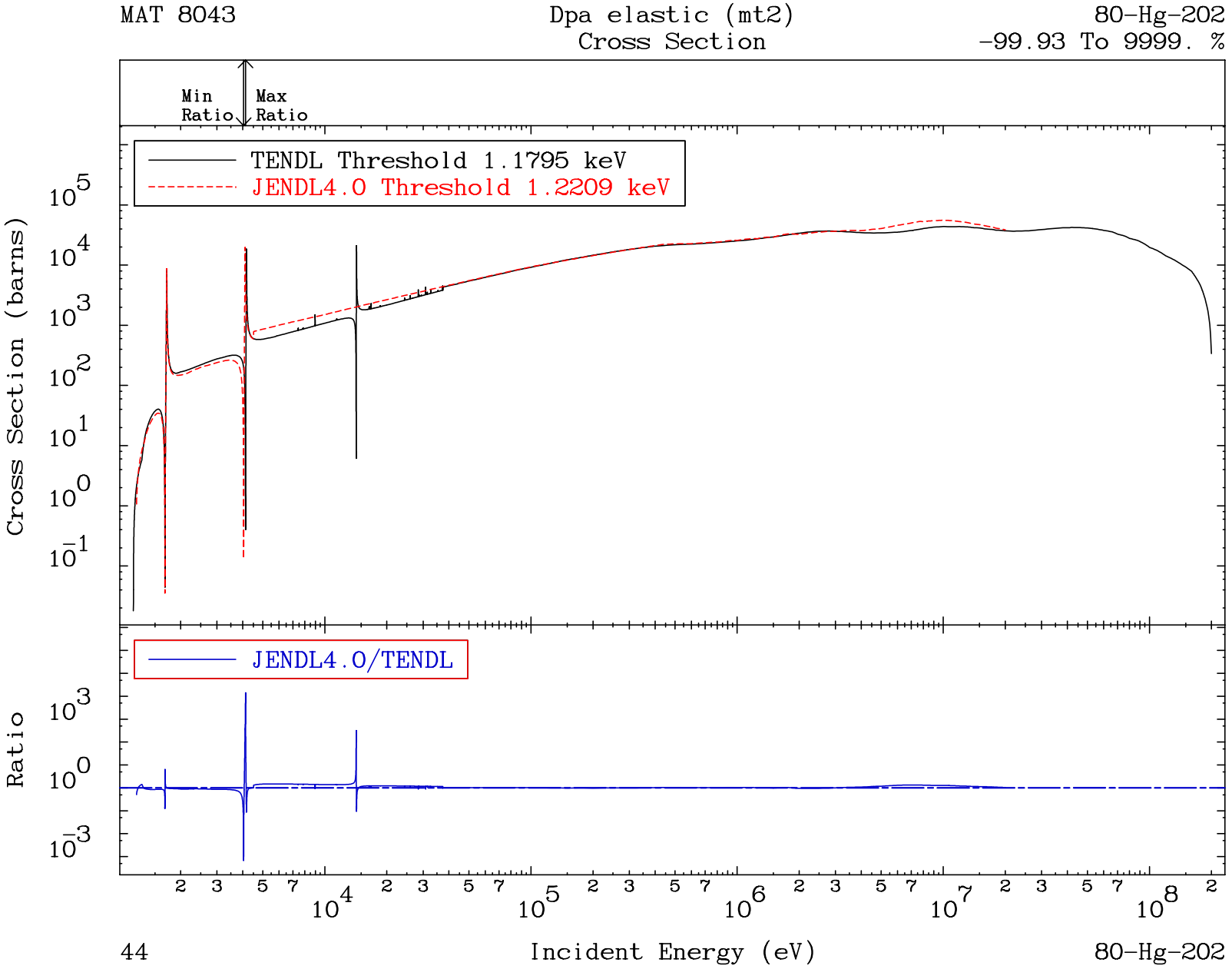

MAT 8043
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
80-Hg-202
-182.5 To 339.9 %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
6
4
2
0
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
39
Incident Energy (eV)
80-Hg-202

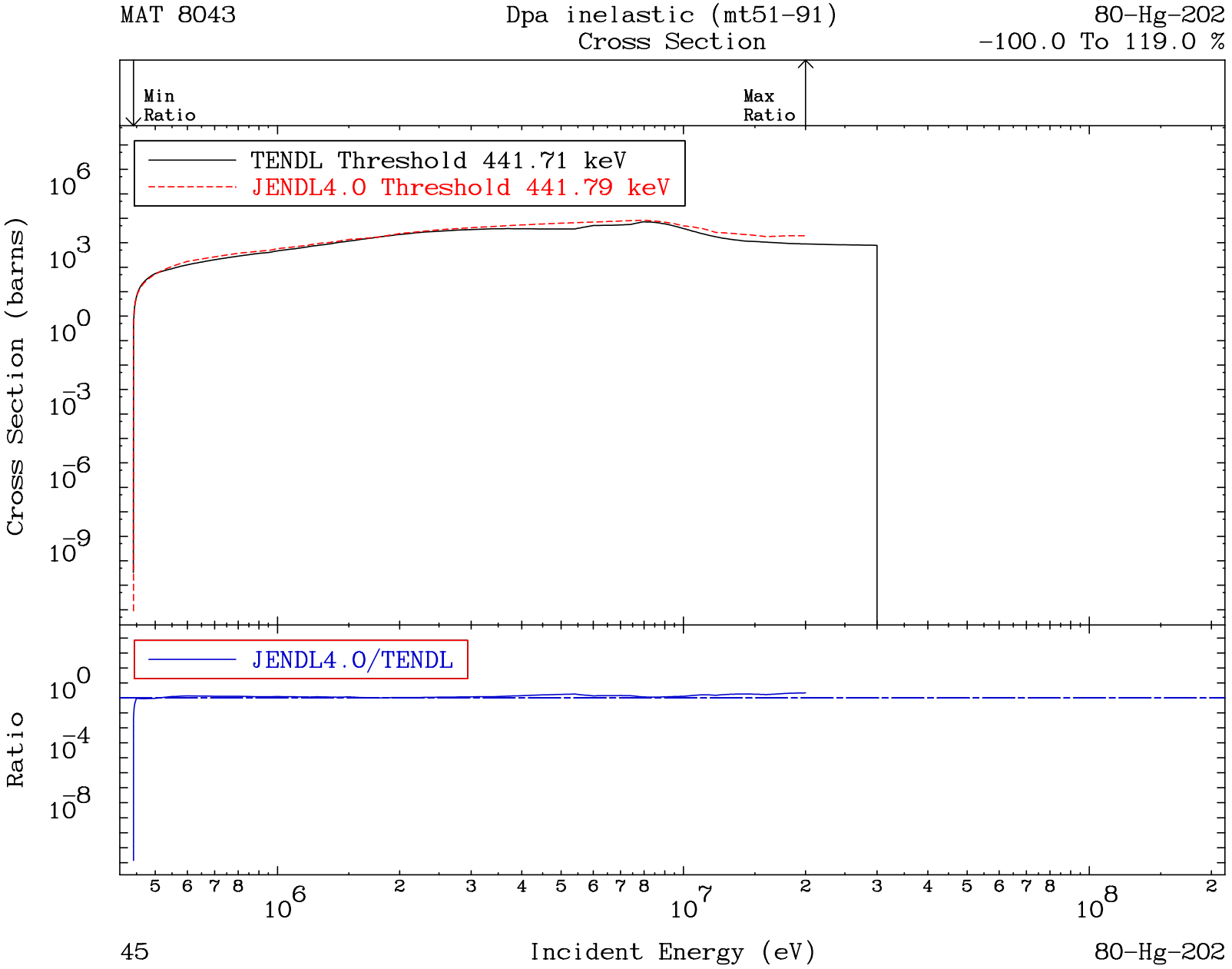

MAT 8043
Kerma capture (mt102)
Cross Section
80-Hg-202
-98.62 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
40
80-Hg-202

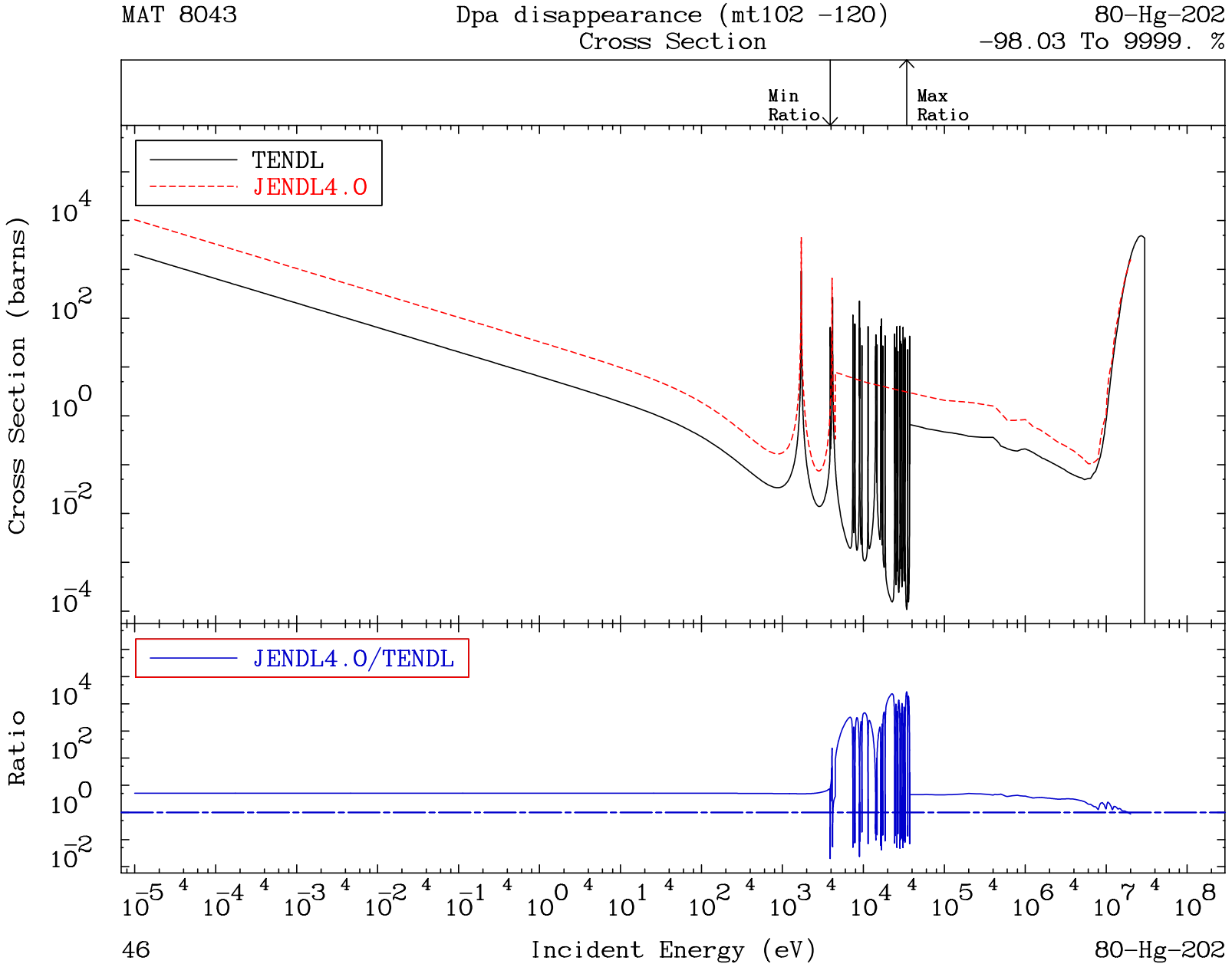

MAT 8043
Total photon (eV-barns)
Cross Section
80-Hg-202
-99.59 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
41
80-Hg-202

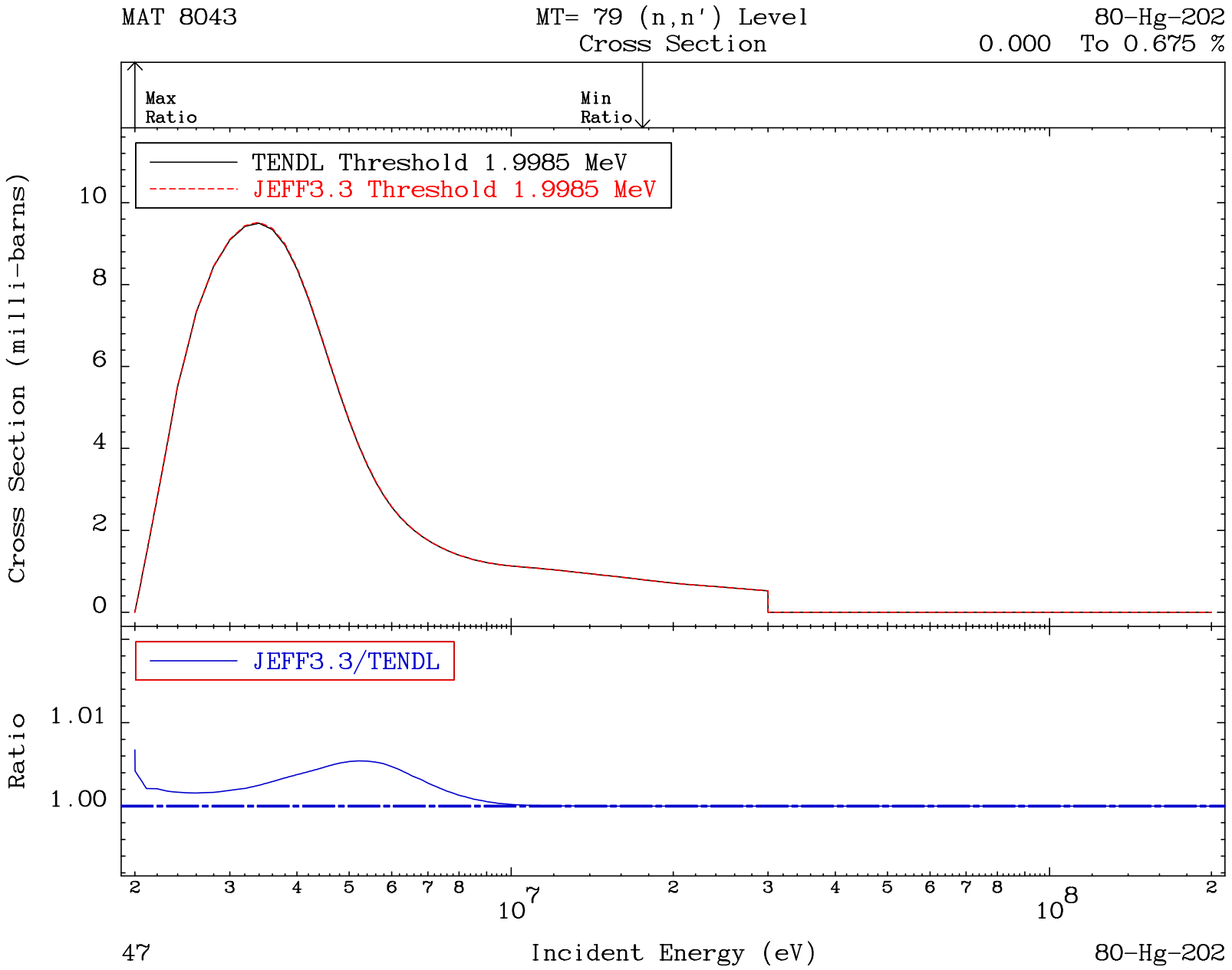

MAT 8043
Total kinematic kerma (high limit)
Cross Section
80-Hg-202
-126.6 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
42
80-Hg-202

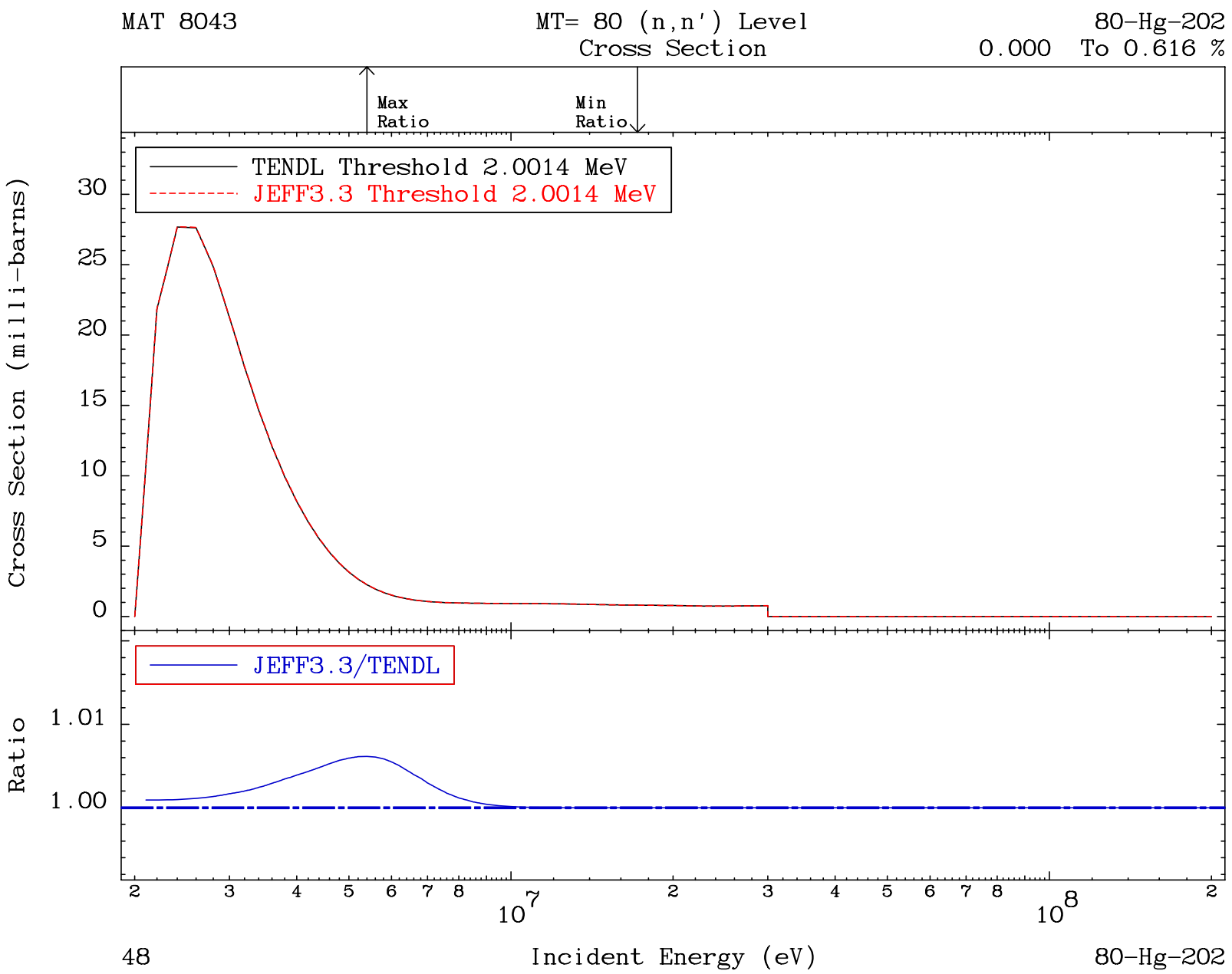

MAT 8043
Dpa total (eV-barns)
Cross Section
80-Hg-202
-93.53 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
43
Incident Energy (eV)
80-Hg-202

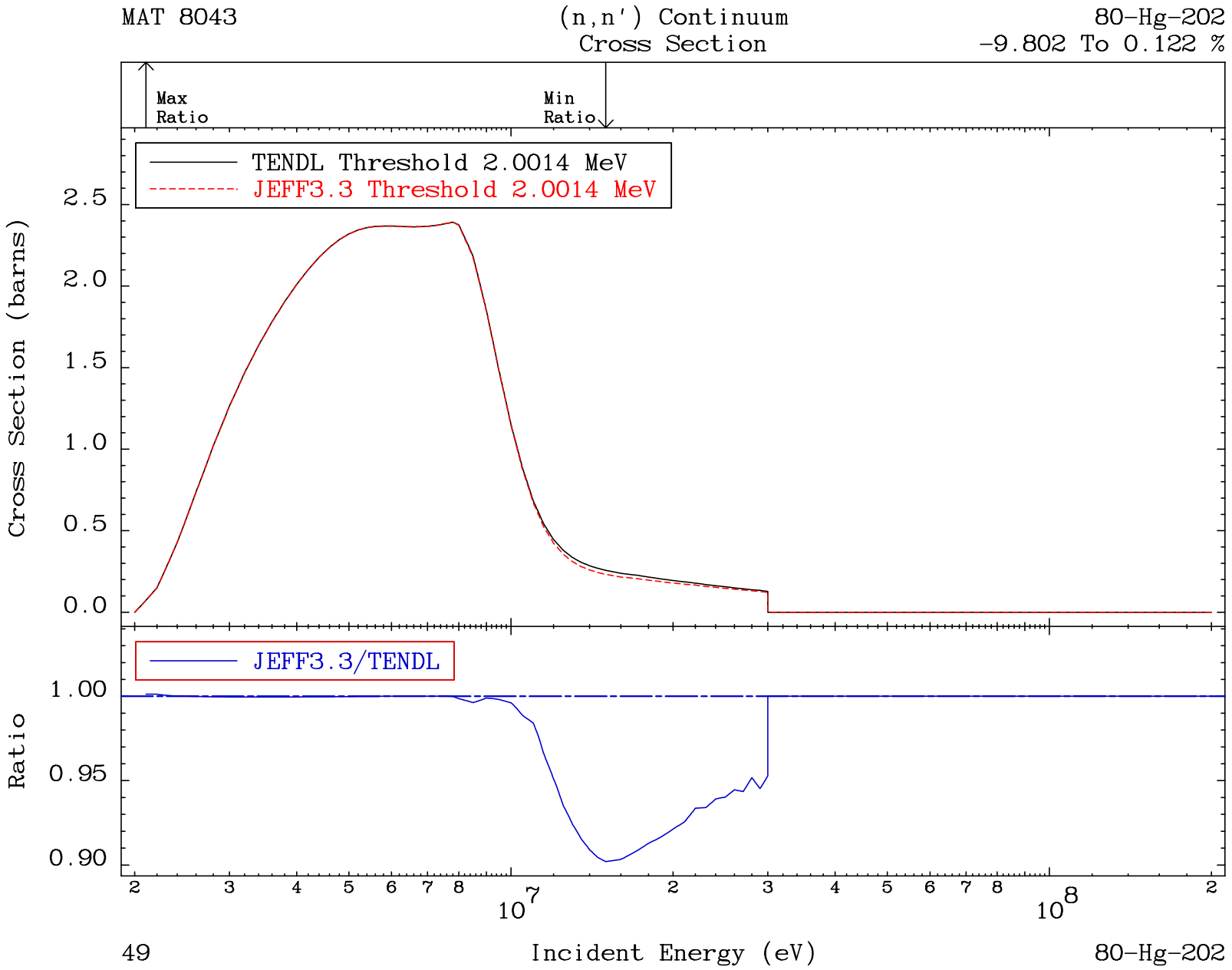

MAT 8043
Dpa elastic (mt2)
Cross Section
80-Hg-202
-99.93 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1795 keV
JENDL4.0 Threshold 1.2209 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
44
80-Hg-202

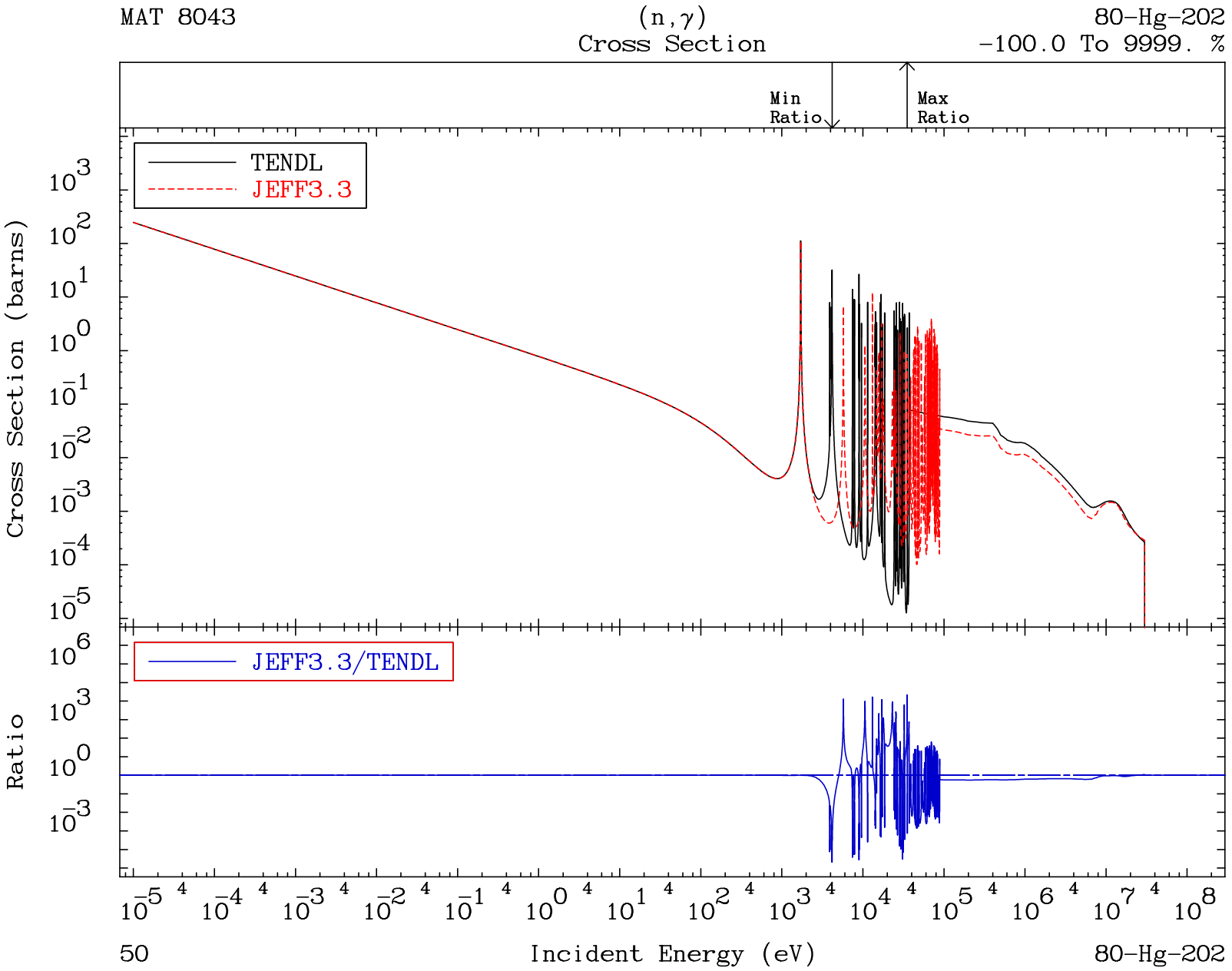

MAT 8043
Dpa inelastic (mt51-91)
Cross Section
80-Hg-202
-100.0 To 119.0 %
Min Ratio
Max Ratio
TENDL Threshold 441.71 keV
JENDL4.0 Threshold 441.79 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
45
80-Hg-202

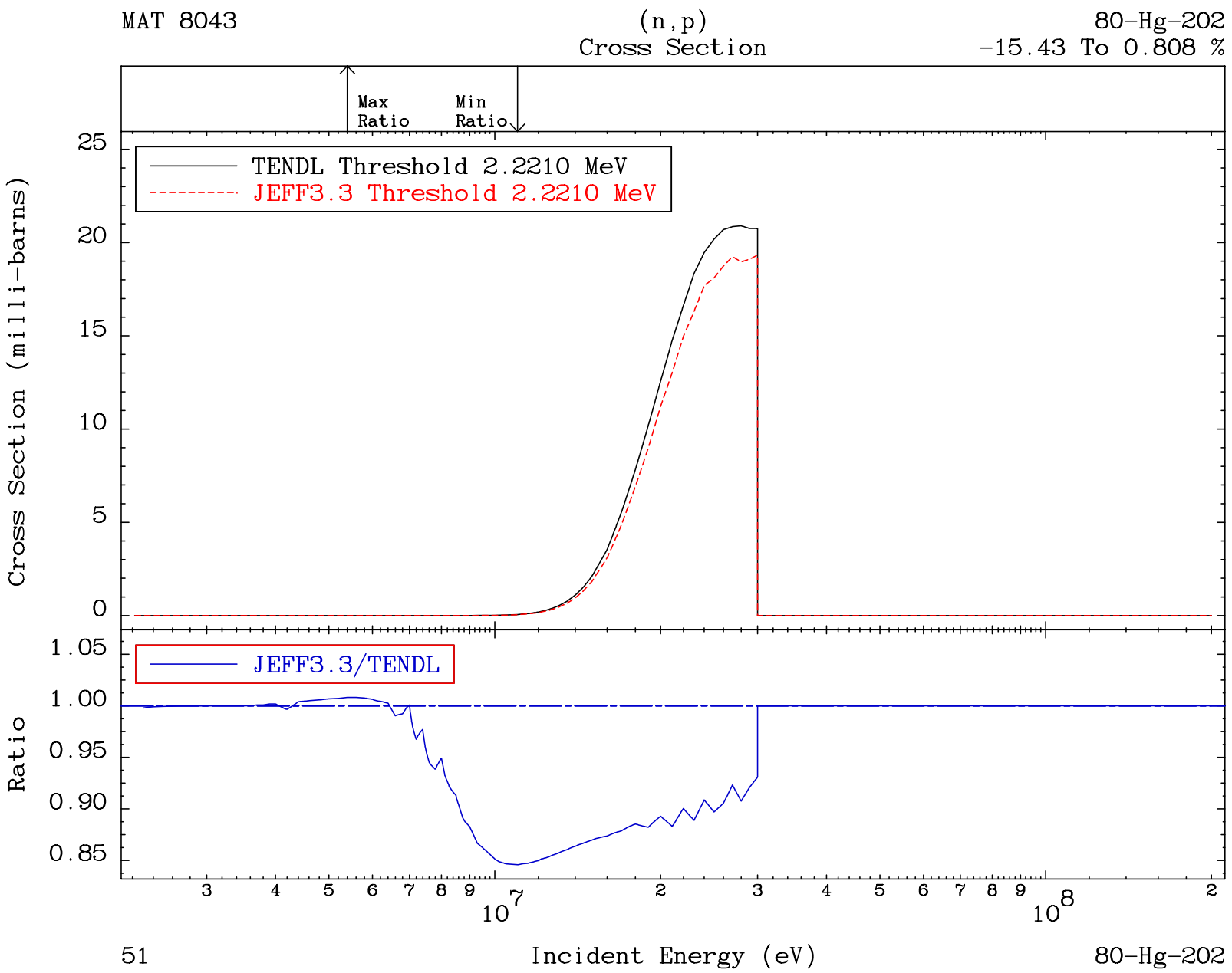

MAT 8043
Dpa disappearance (mt102 -120)
Cross Section
80-Hg-202
-98.03 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
46
80-Hg-202

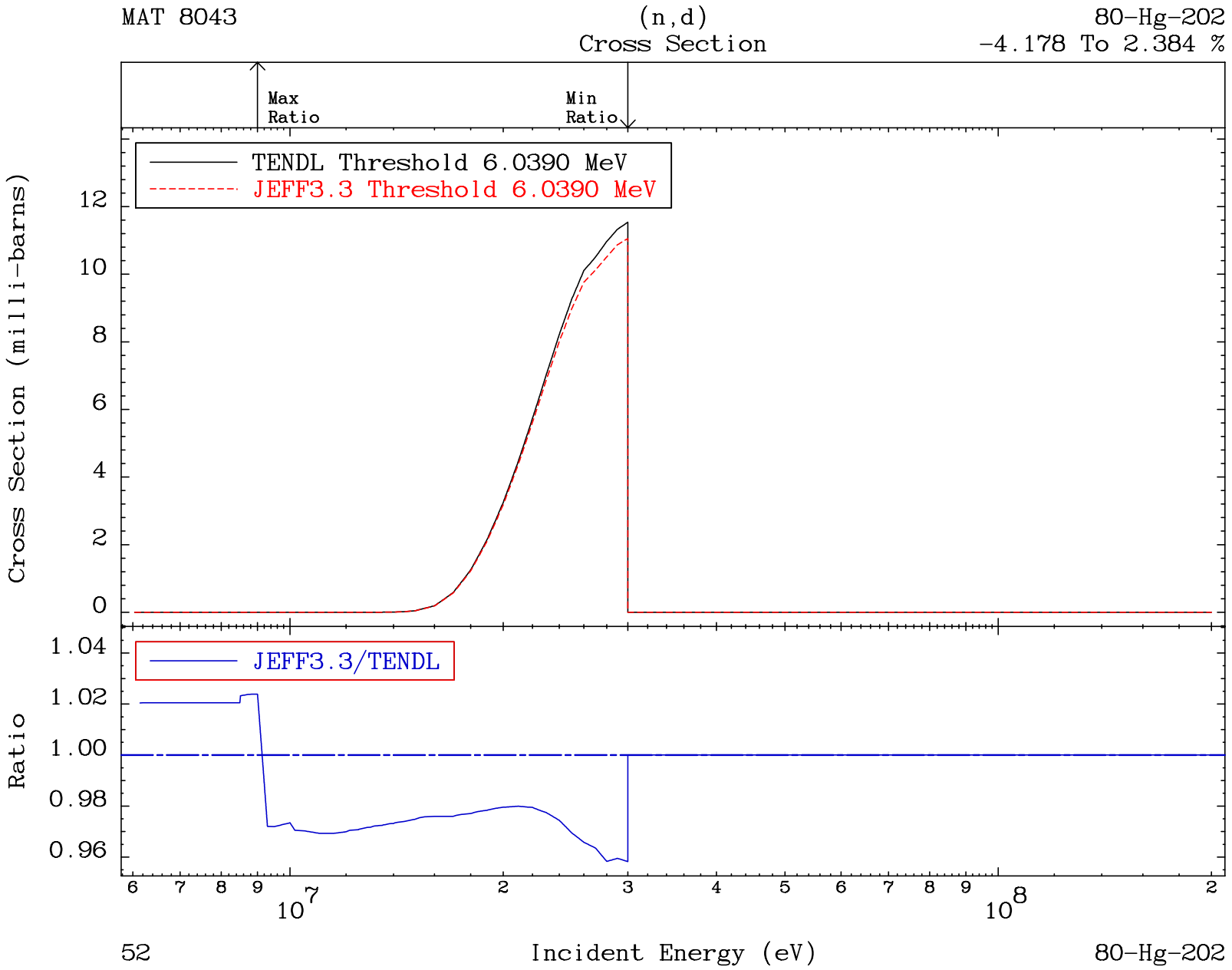

MAT 8043
MT= 79 (n,n') Level
Cross Section
80-Hg-202
0.000 To 0.675 %
Max Ratio
Min Ratio
TENDL Threshold 1.9985 MeV
JEFF3.3 Threshold 1.9985 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
JEFF3.3/TENDL
Ratio
1.00
1.01
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
47
Incident Energy (eV)
80-Hg-202

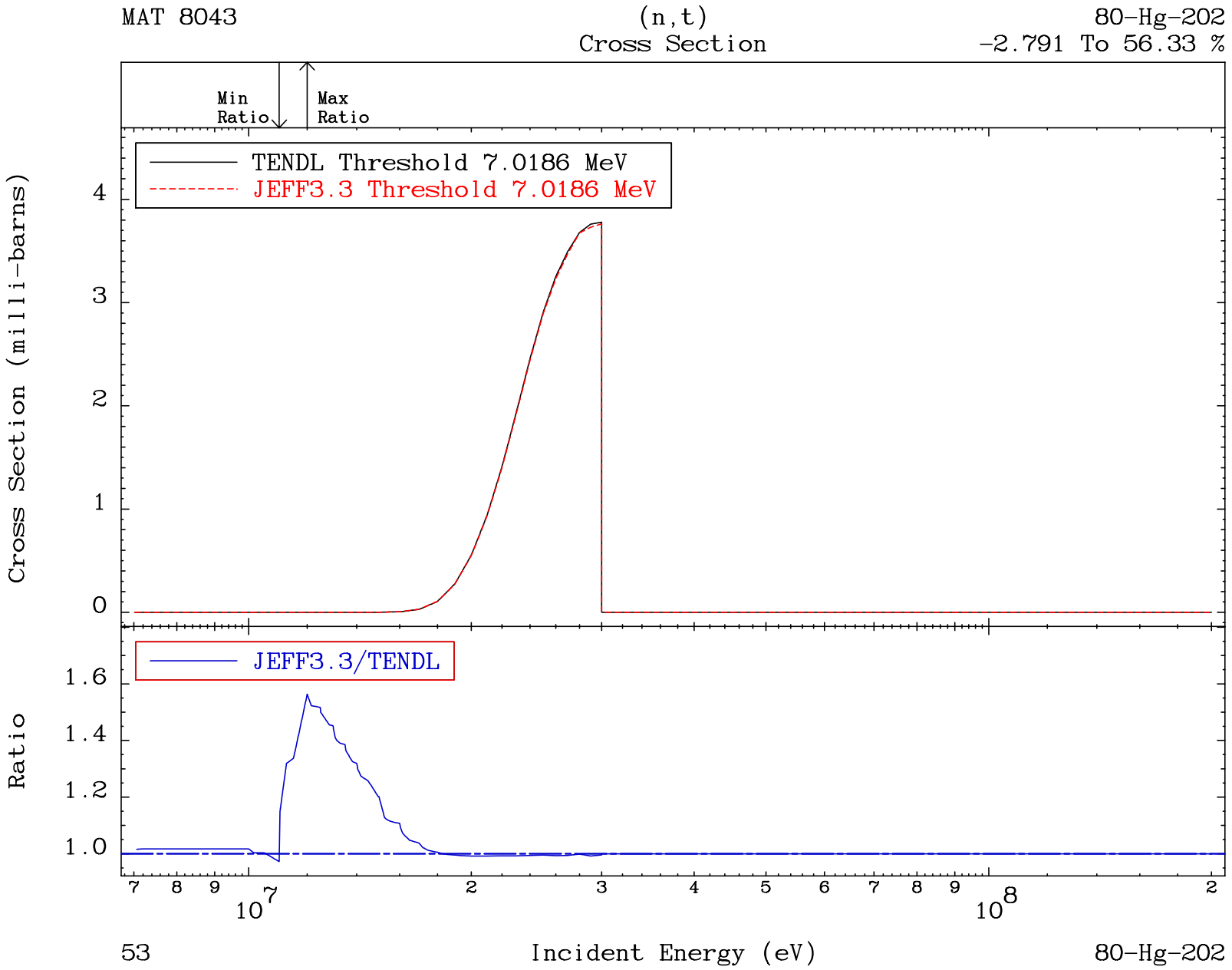

MAT 8043
MT= 80 (n,n') Level
Cross Section
80-Hg-202
0.000 To 0.616 %
Max Ratio
Min Ratio
TENDL Threshold 2.0014 MeV
JEFF3.3 Threshold 2.0014 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
48
Incident Energy (eV)
80-Hg-202

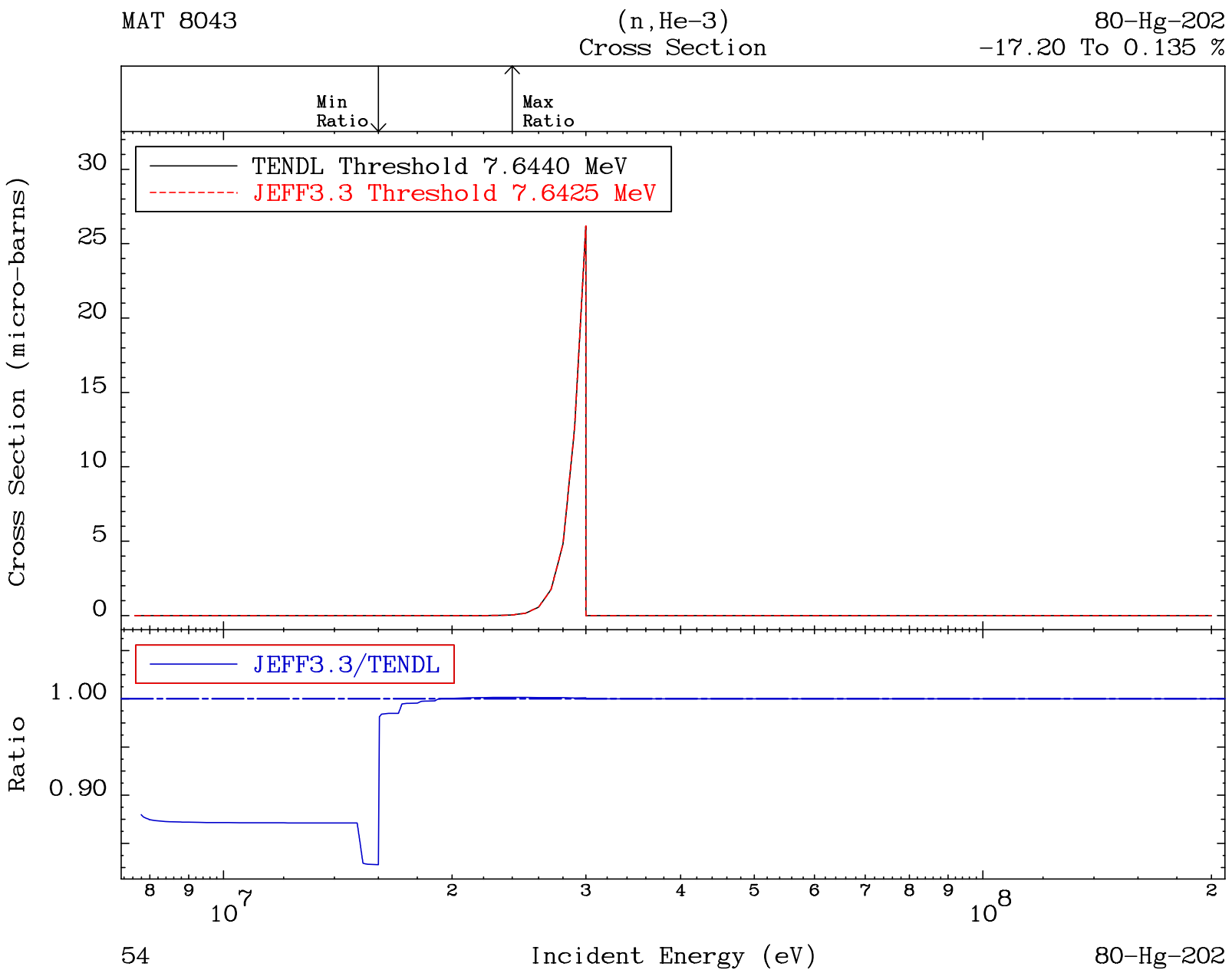

MAT 8043
(n,n') Continuum
Cross Section
80-Hg-202
-9.802 To 0.122 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.0014 MeV
JEFF3.3 Threshold 2.0014 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
49
Incident Energy (eV)
80-Hg-202

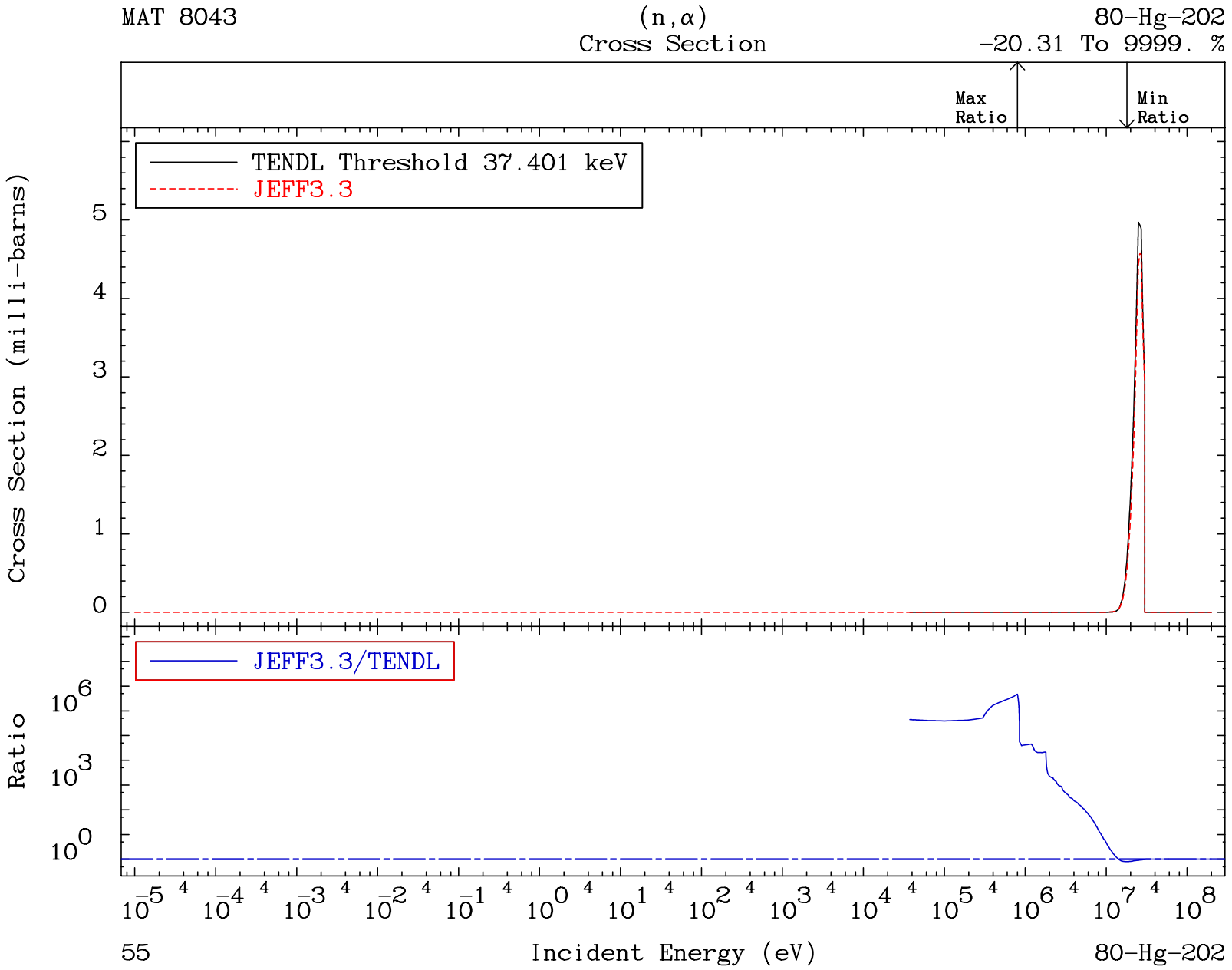

MAT 8043
(n,γ)
Cross Section
80-Hg-202
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
50
80-Hg-202

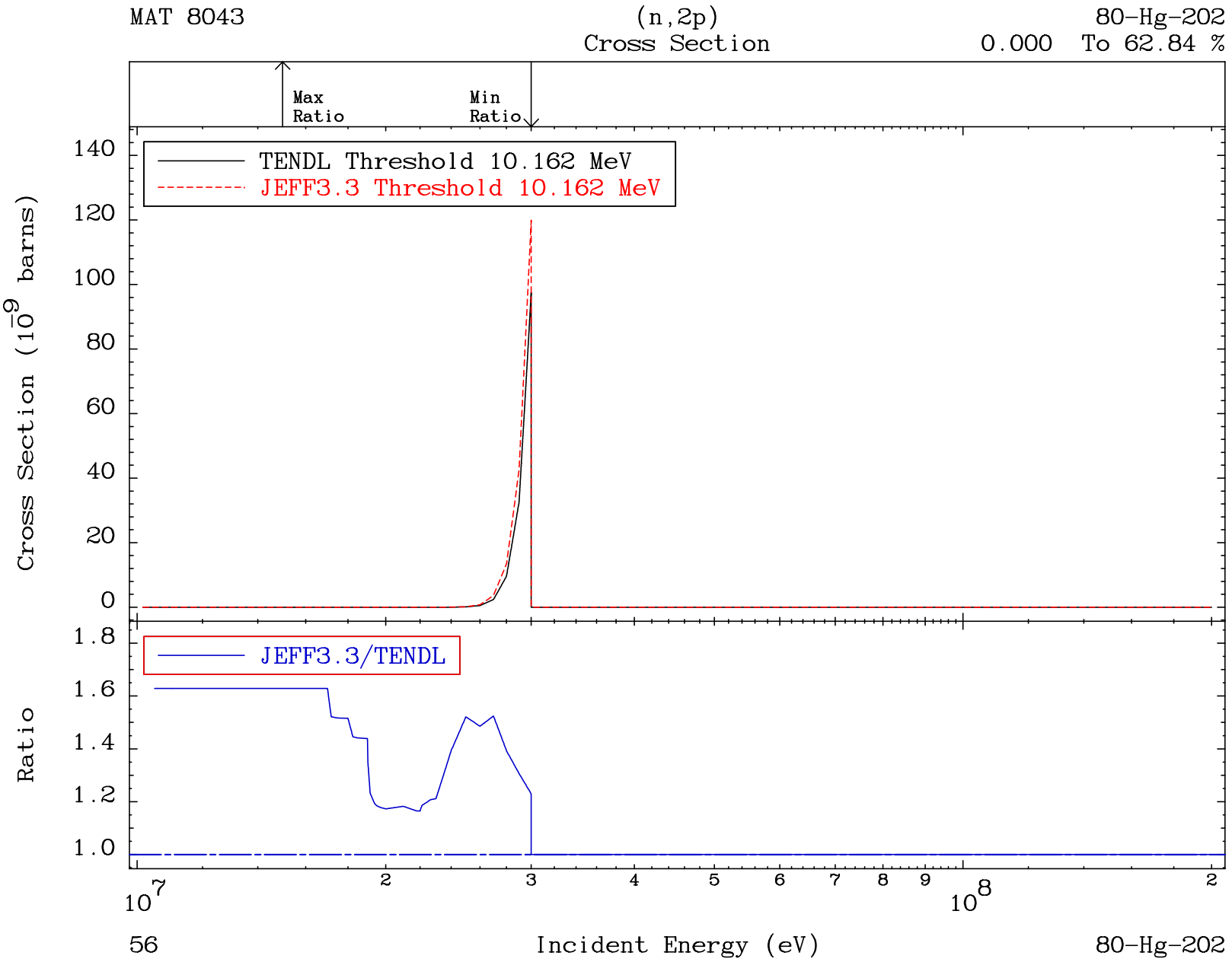

MAT 8043
(n,p)
Cross Section
80-Hg-202
-15.43 To 0.808 %
Max Ratio
Min Ratio
TENDL Threshold 2.2210 MeV
JEFF3.3 Threshold 2.2210 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
0.90
0.85
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
80-Hg-202

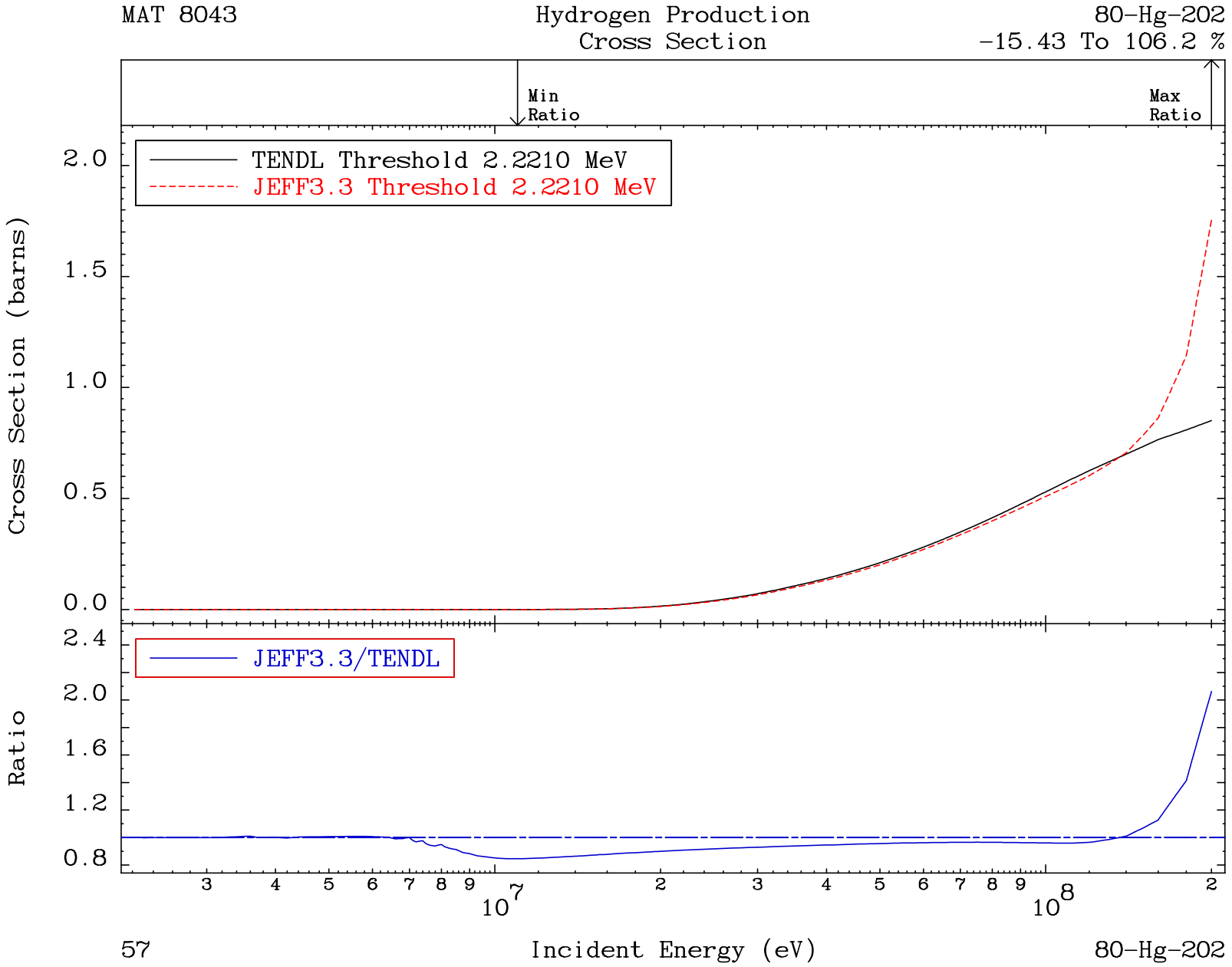

MAT 8043
(n,d)
Cross Section
80-Hg-202
-4.178 To 2.384 %
Max Ratio
Min Ratio
TENDL Threshold 6.0390 MeV
JEFF3.3 Threshold 6.0390 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.04
1.02
1.00
0.98
0.96
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
80-Hg-202

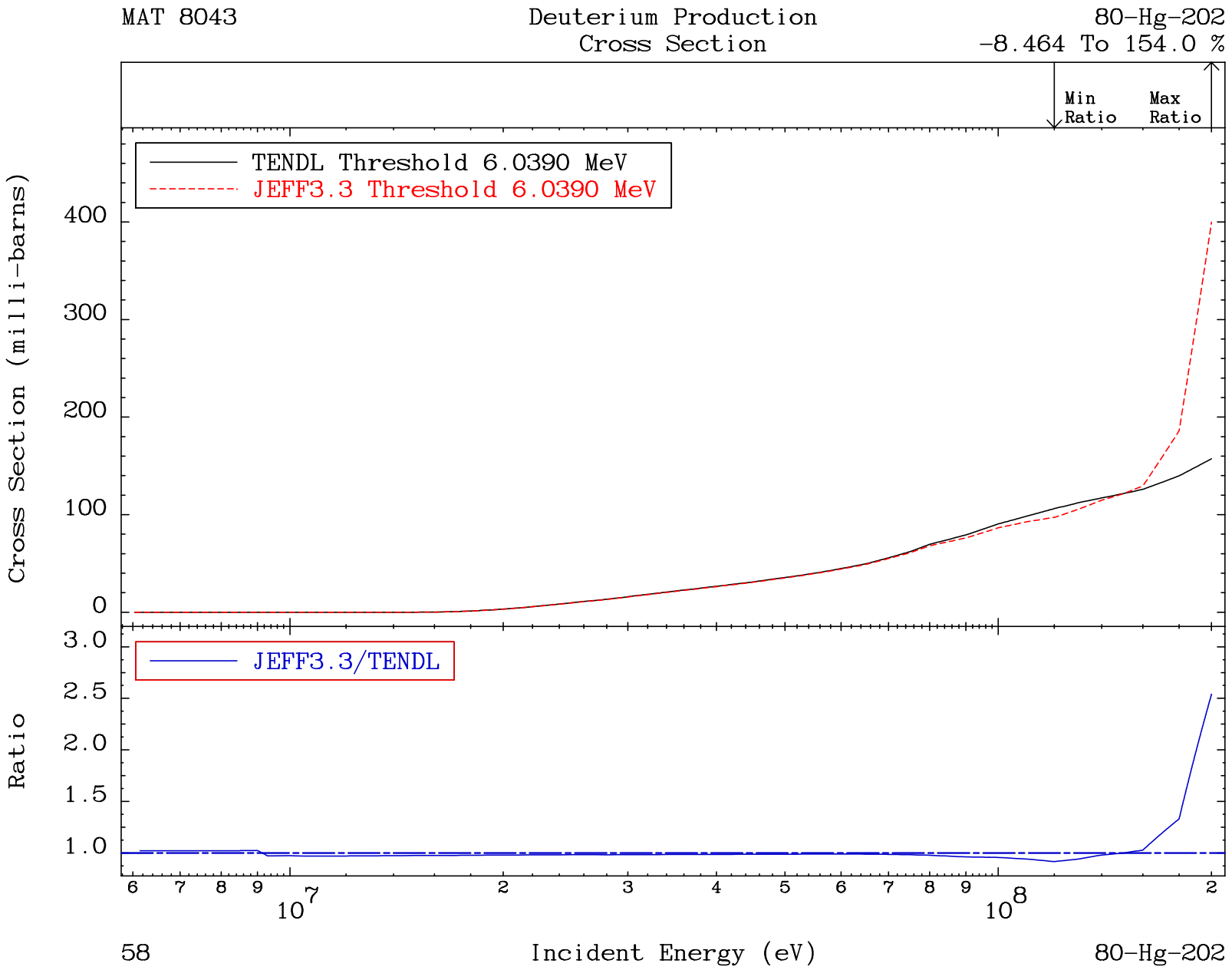

MAT 8043
(n,t)
Cross Section
80-Hg-202
-2.791 To 56.33 %
Min Ratio
Max Ratio
TENDL Threshold 7.0186 MeV
JEFF3.3 Threshold 7.0186 MeV
Cross Section (milli-barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
1.0
1.2
1.4
1.6
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
80-Hg-202

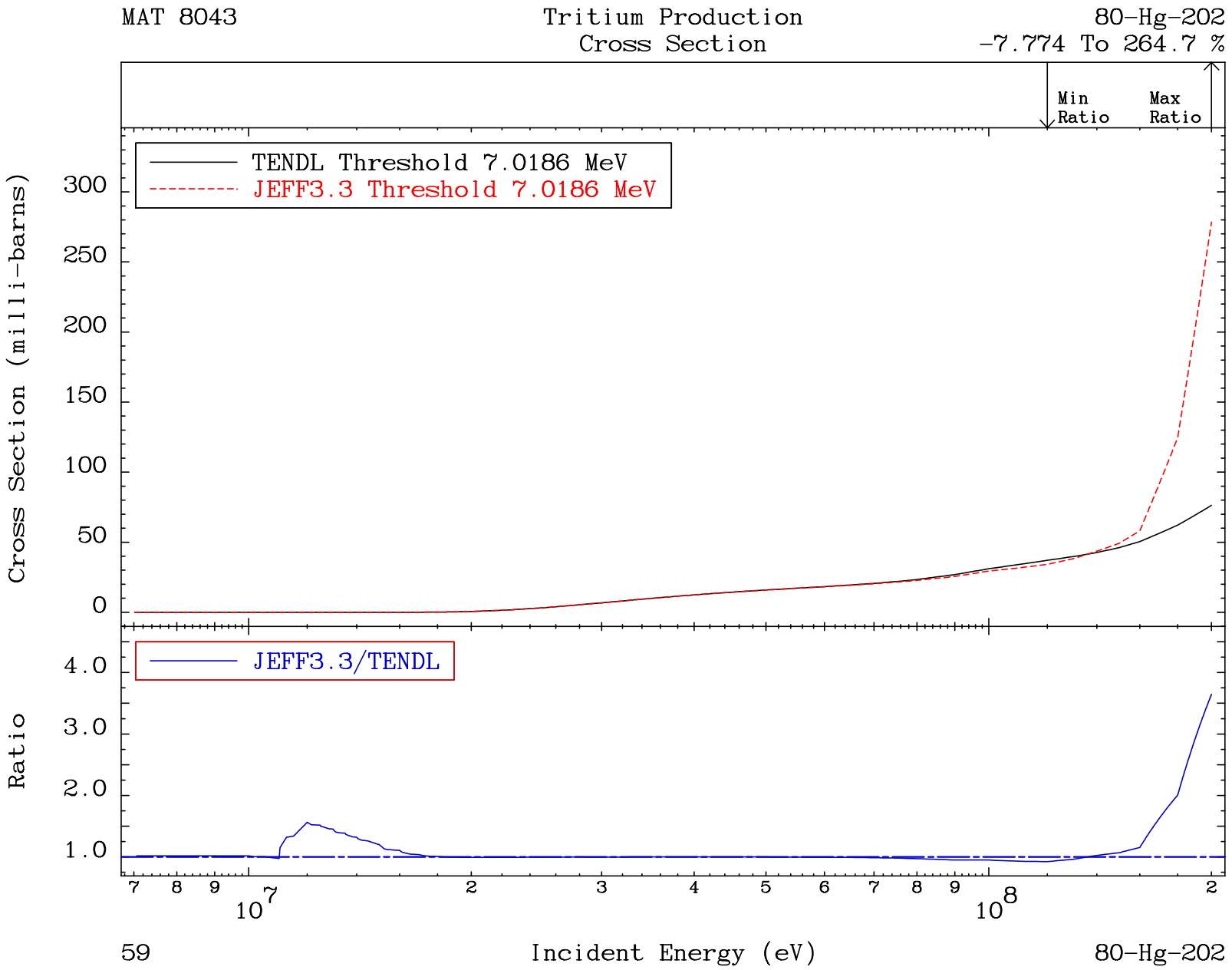

MAT 8043
(n,He-3)
Cross Section
80-Hg-202
-17.20 To 0.135 %
Min Ratio
Max Ratio
TENDL Threshold 7.6440 MeV
JEFF3.3 Threshold 7.6425 MeV
Cross Section (micro-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.00
0.90
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
80-Hg-202

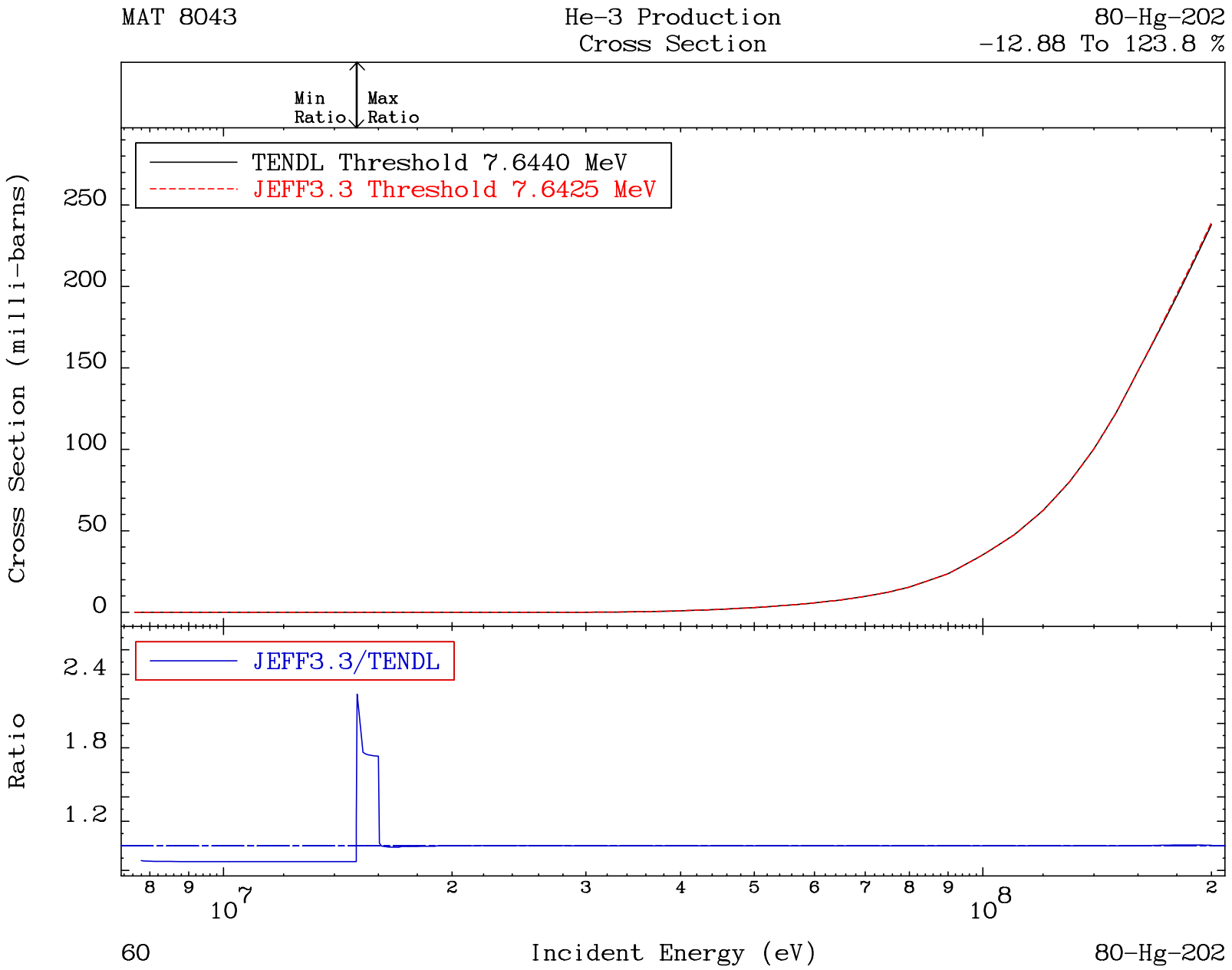

MAT 8043
(n,α)
Cross Section
80-Hg-202
-20.31 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 37.401 keV
JEFF3.3
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
55
Incident Energy (eV)
80-Hg-202

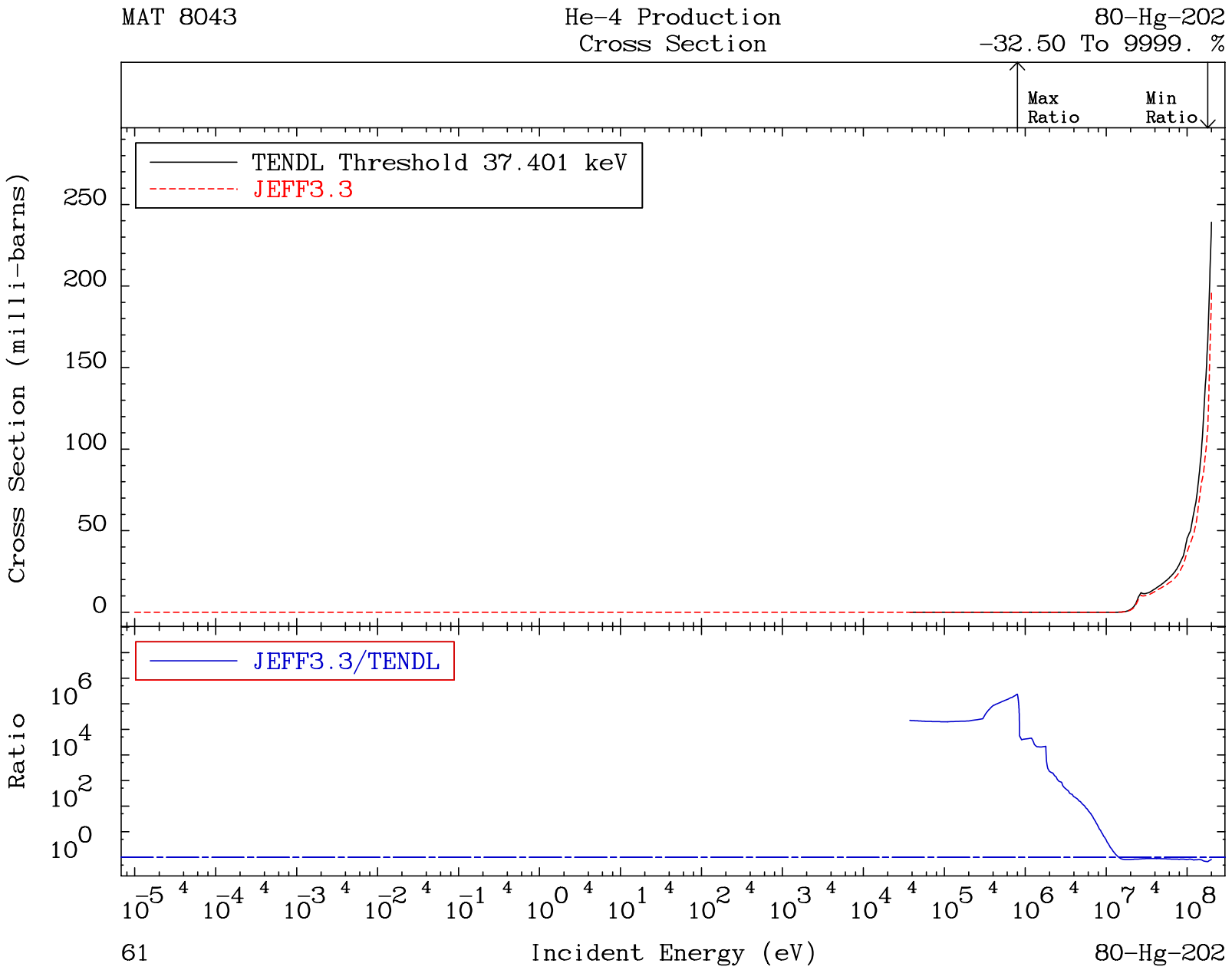

MAT 8043
(n,2p)
Cross Section
80-Hg-202
0.000 To 62.84 %
Max Ratio
Min Ratio
TENDL Threshold 10.162 MeV
JEFF3.3 Threshold 10.162 MeV
Cross Section (10^{-9} barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.8
1.6
1.4
1.2
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
80-Hg-202

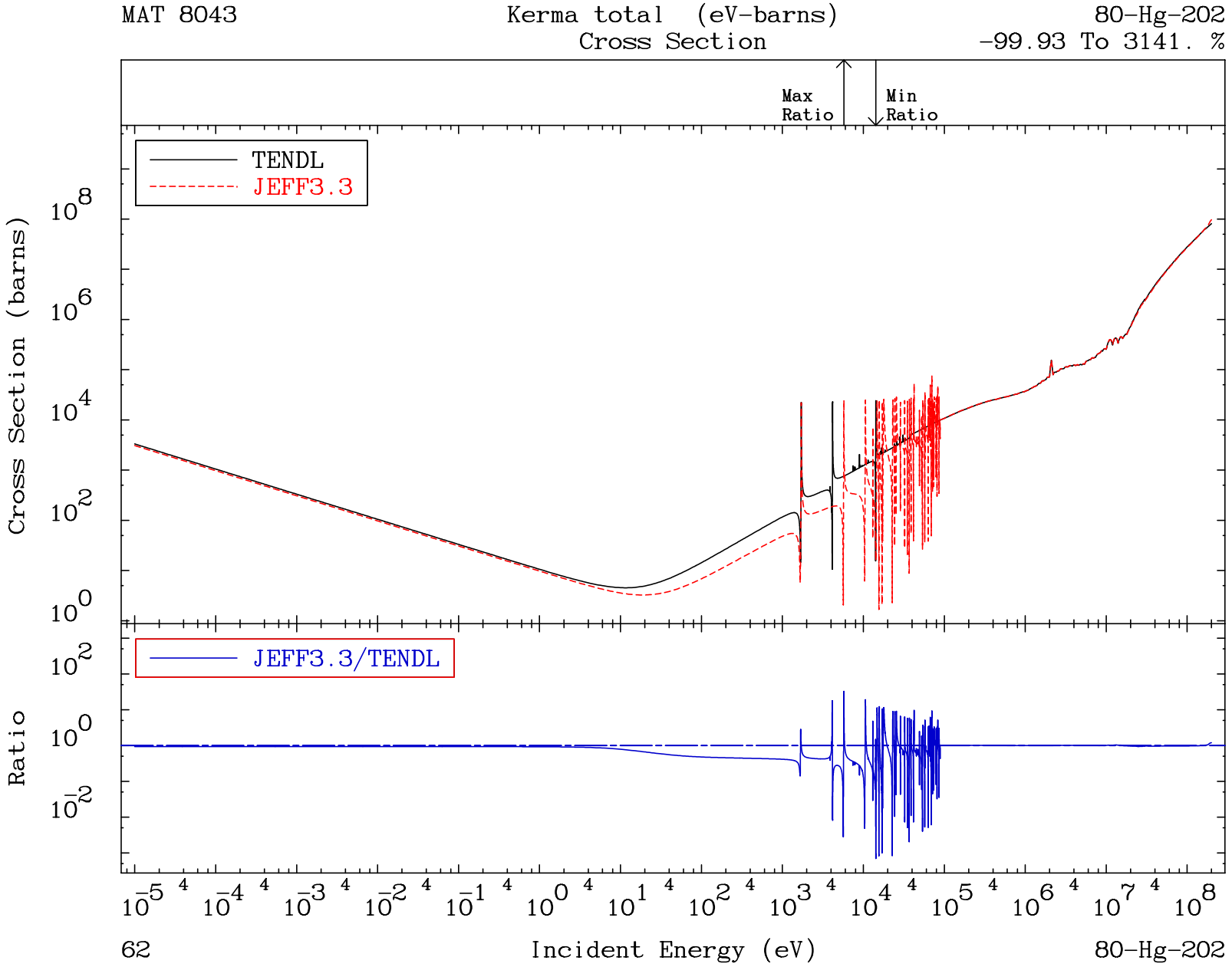

MAT 8043
Hydrogen Production
Cross Section
80-Hg-202
-15.43 To 106.2 %
Min Ratio
Max Ratio
TENDL Threshold 2.2210 MeV
JEFF3.3 Threshold 2.2210 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
2.4
2.0
1.6
1.2
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
57
Incident Energy (eV)
80-Hg-202

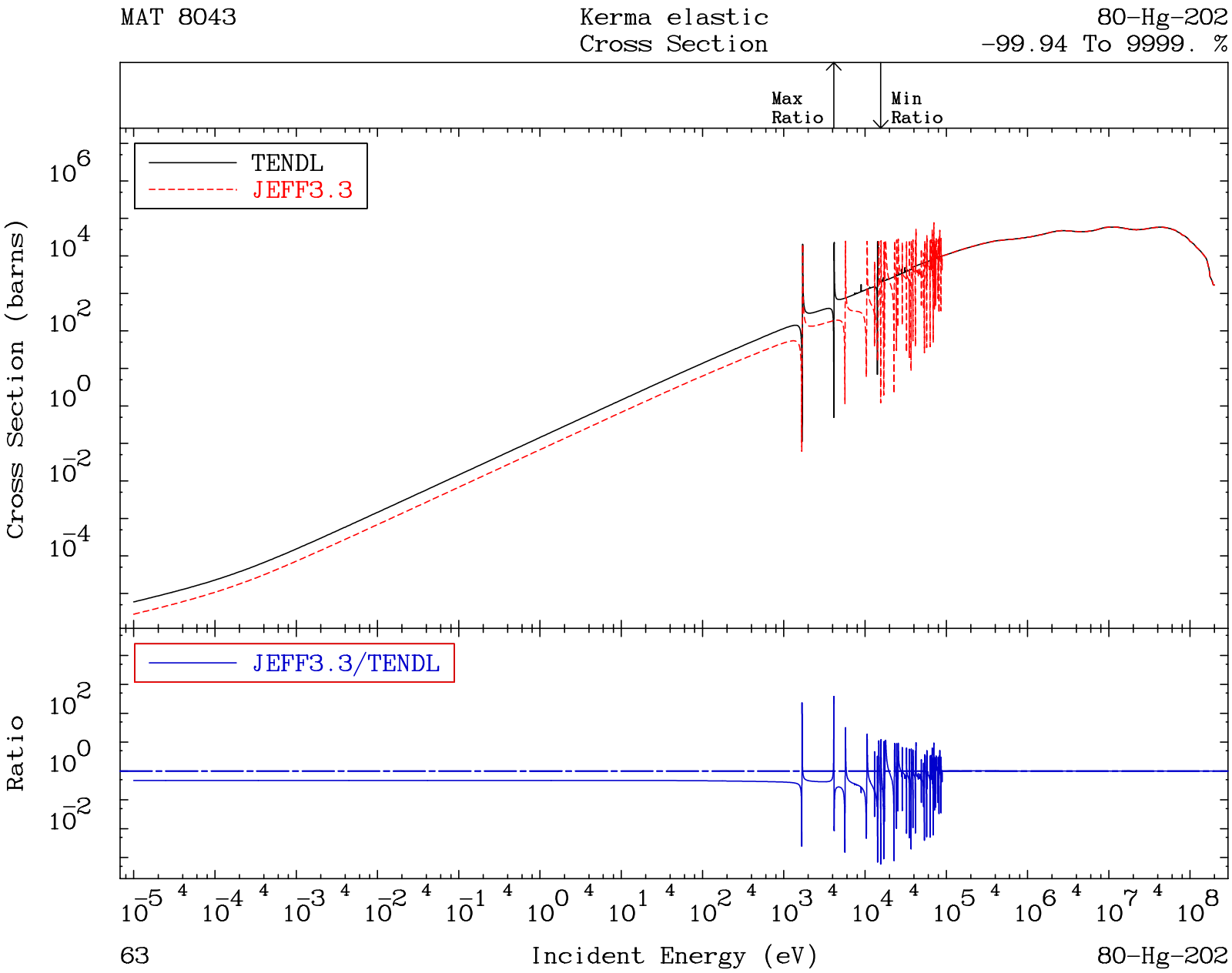

MAT 8043
Deuterium Production
Cross Section
80-Hg-202
-8.464 To 154.0 %
Min Ratio
Max Ratio
TENDL Threshold 6.0390 MeV
JEFF3.3 Threshold 6.0390 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
3.0
2.5
2.0
1.5
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
58
Incident Energy (eV)
80-Hg-202

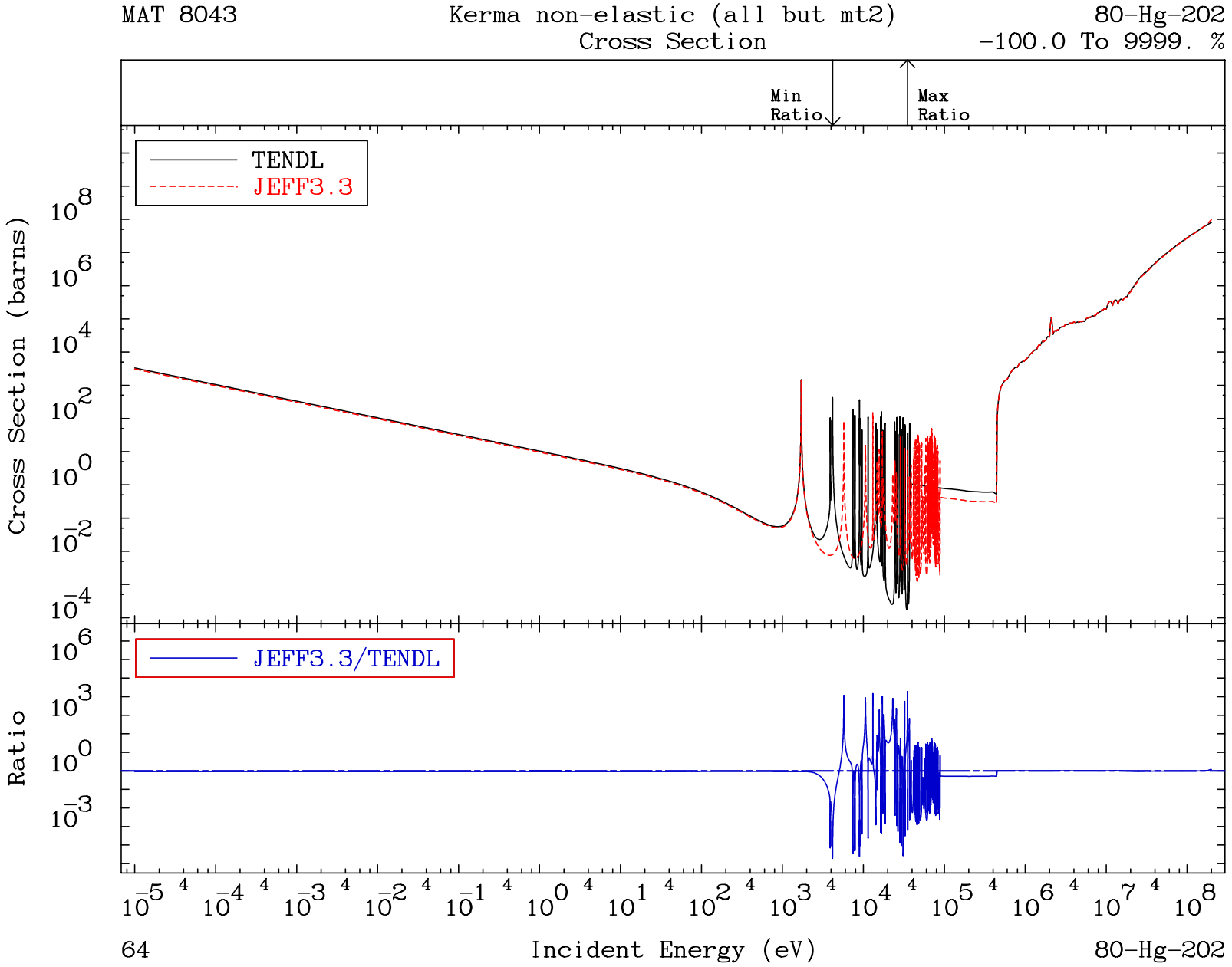

MAT 8043
Tritium Production
Cross Section
80-Hg-202
-7.774 To 264.7 %
Min Ratio
Max Ratio
TENDL Threshold 7.0186 MeV
JEFF3.3 Threshold 7.0186 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
59
Incident Energy (eV)
80-Hg-202

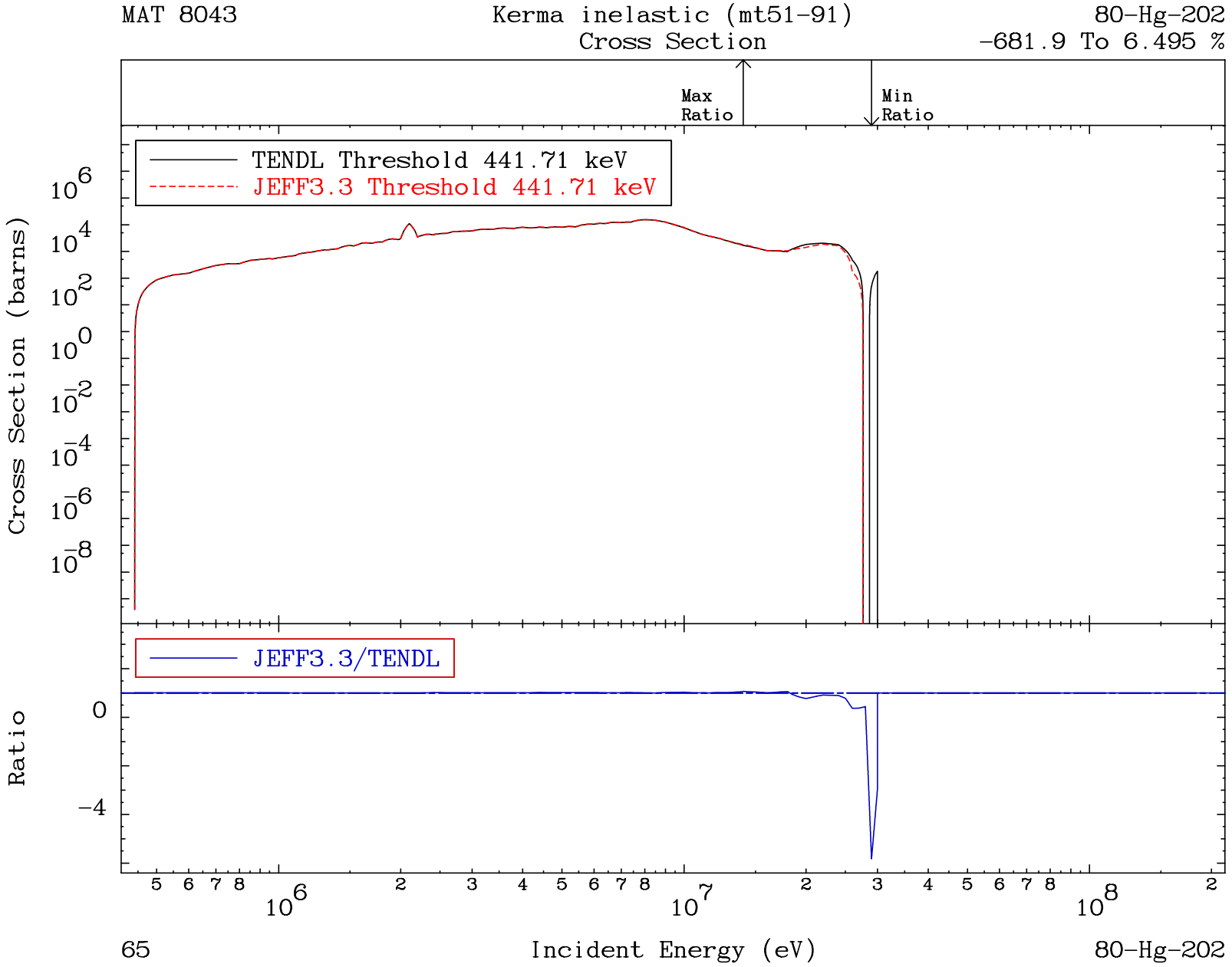

MAT 8043
He-3 Production
Cross Section
80-Hg-202
-12.88 To 123.8 %
Min Ratio
Max Ratio
TENDL Threshold 7.6440 MeV
JEFF3.3 Threshold 7.6425 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
2.4
1.8
1.2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
60
Incident Energy (eV)
80-Hg-202

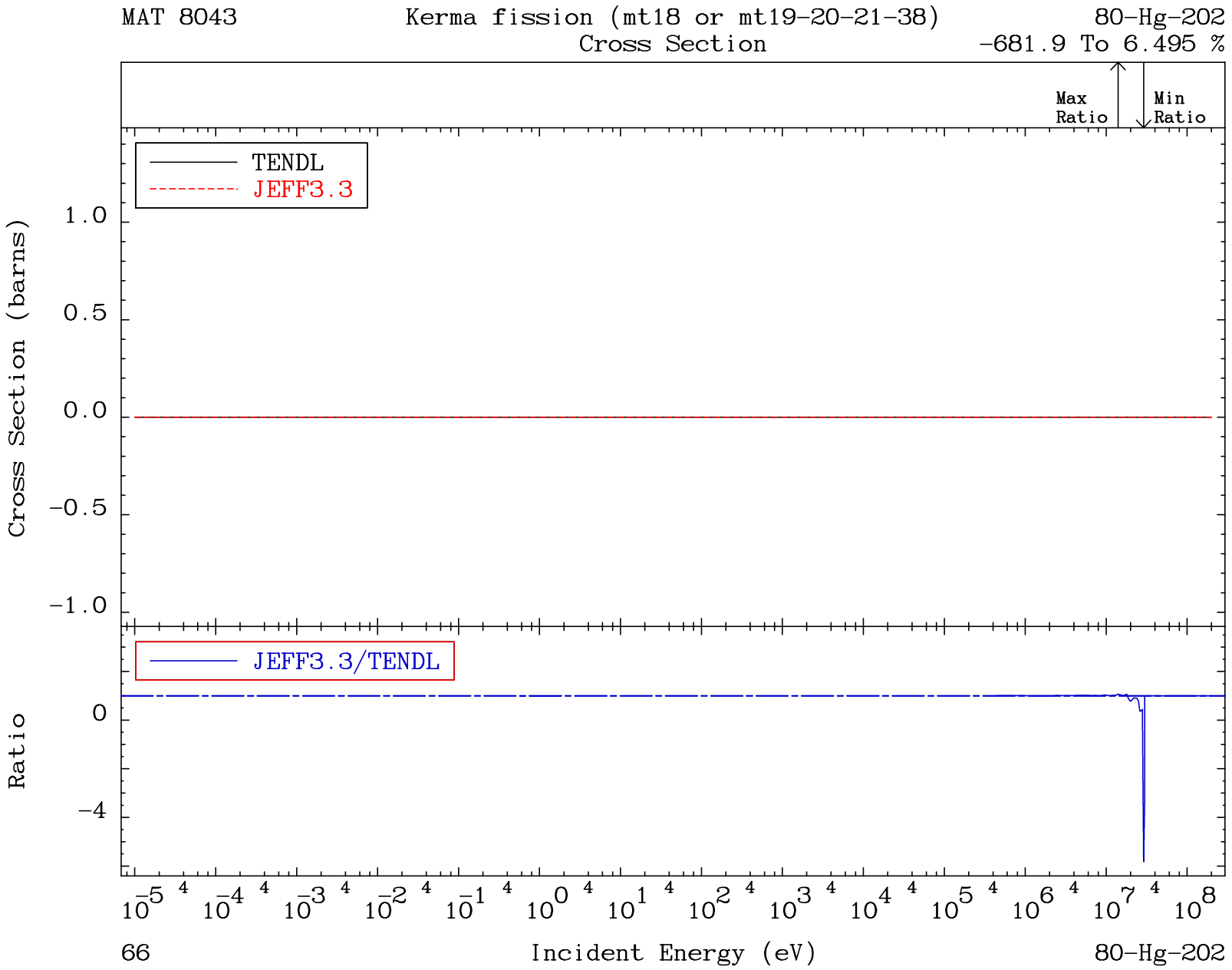

MAT 8043
He-4 Production
Cross Section
80-Hg-202
-32.50 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 37.401 keV
JEFF3.3
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^6
10^4
10^2
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
61
Incident Energy (eV)
80-Hg-202

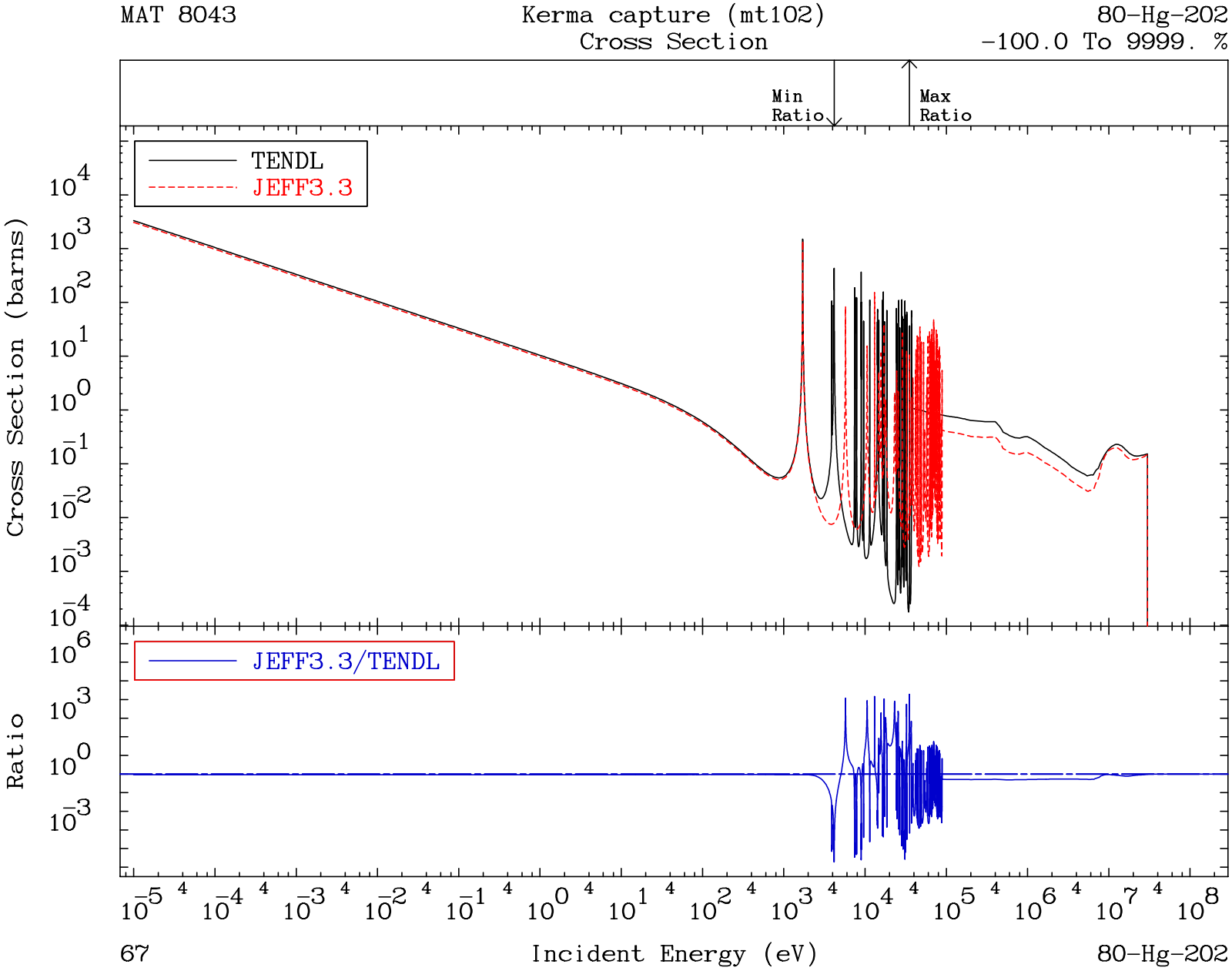

MAT 8043
Kerma total (eV-barns)
Cross Section
80-Hg-202
-99.93 To 3141. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
62
80-Hg-202

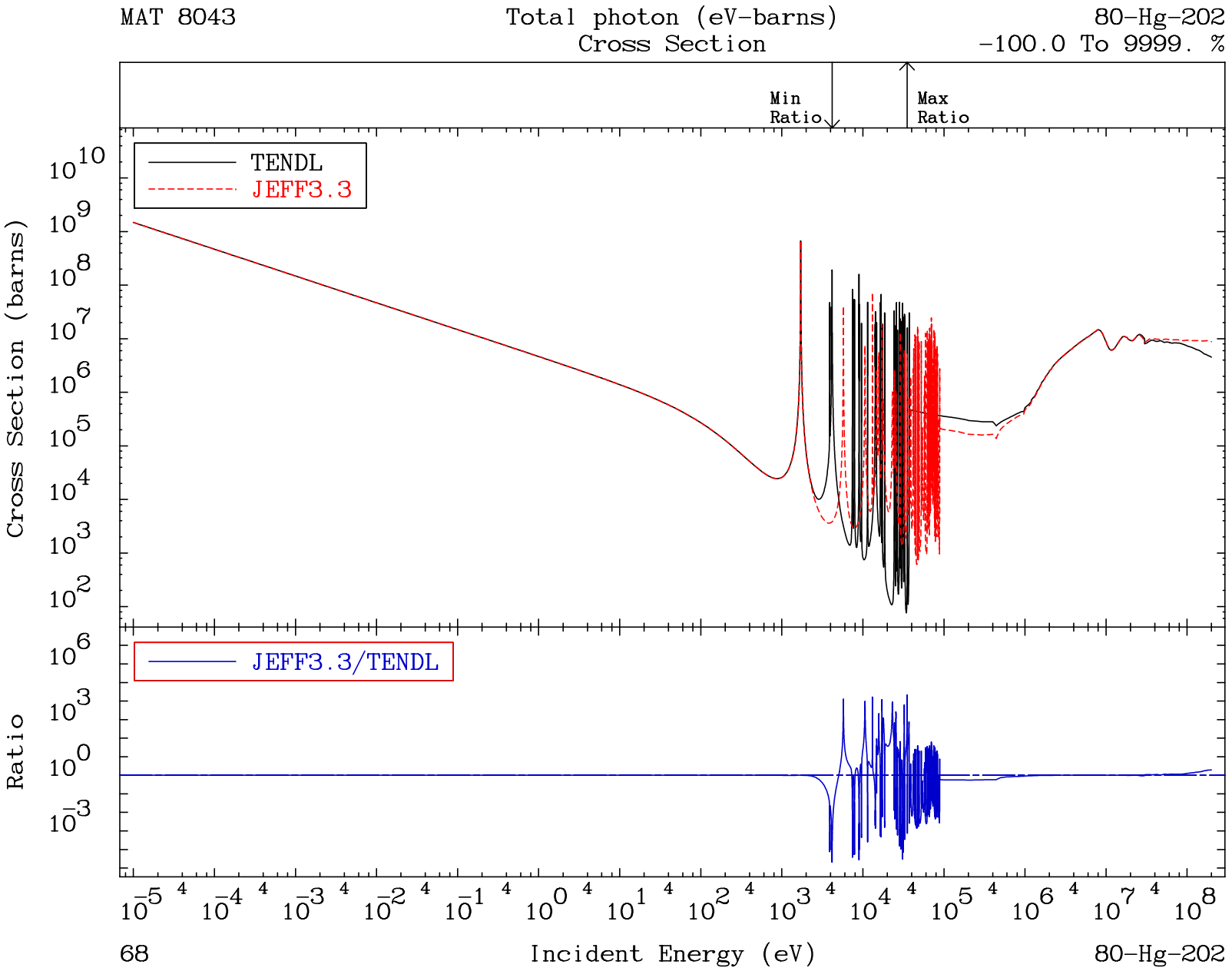

MAT 8043
Kerma elastic
Cross Section
80-Hg-202
-99.94 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
63
80-Hg-202

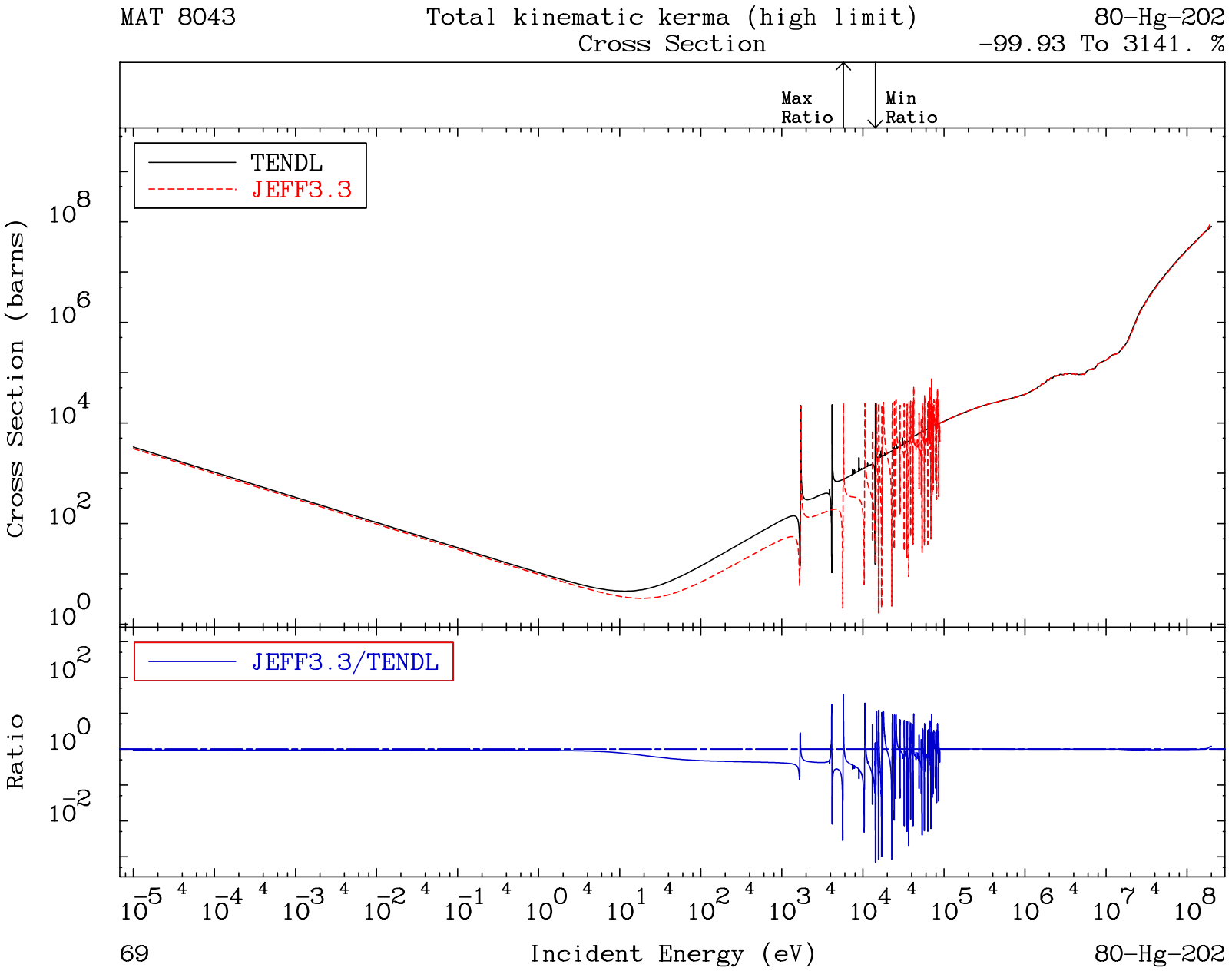

MAT 8043
Kerma non-elastic (all but mt2)
Cross Section
80-Hg-202
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
80-Hg-202

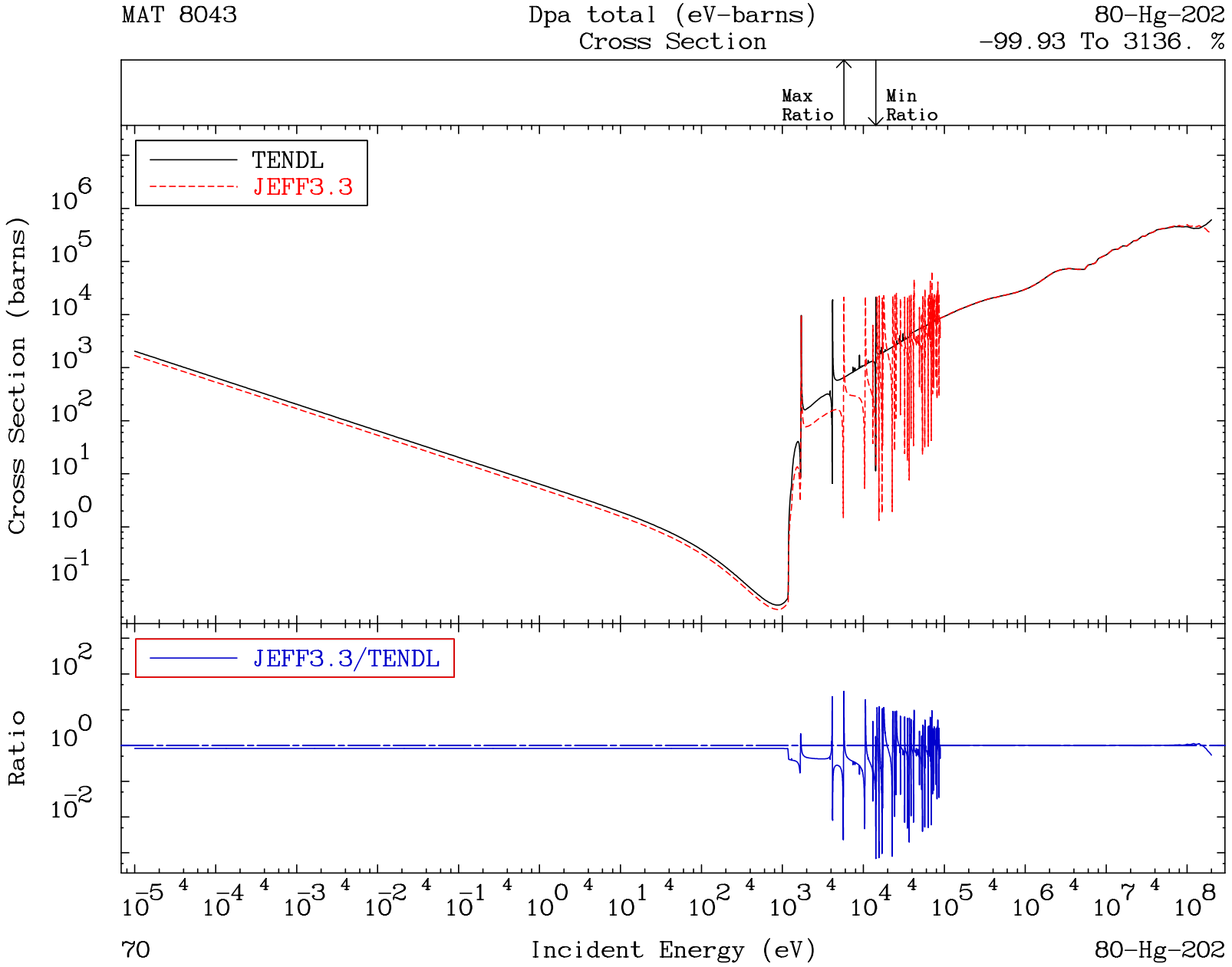

MAT 8043
Kerma inelastic (mt51-91)
Cross Section
80-Hg-202
-681.9 To 6.495 %
Max Ratio
Min Ratio
TENDL Threshold 441.71 keV
JEFF3.3 Threshold 441.71 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
80-Hg-202

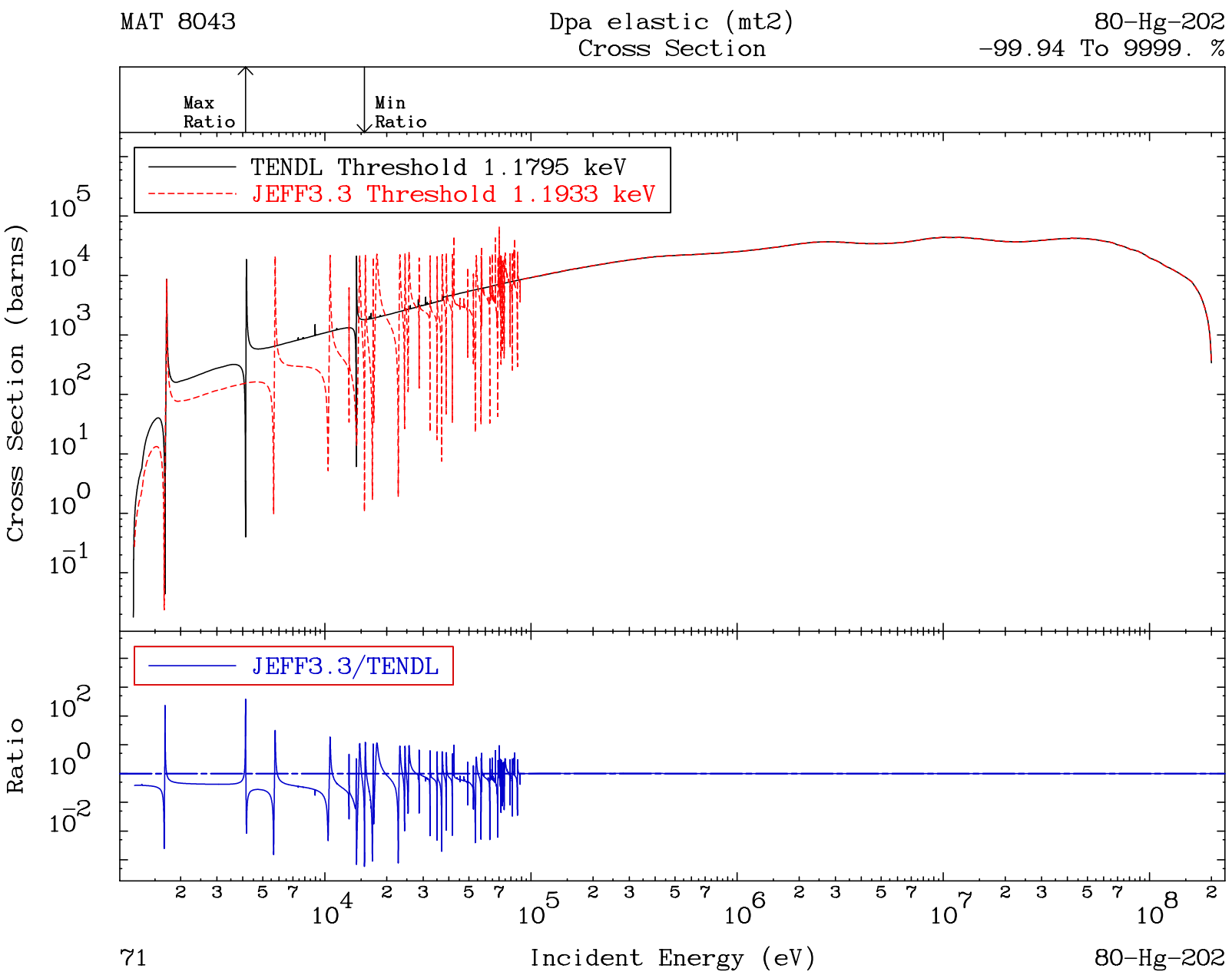

MAT 8043
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
80-Hg-202
-681.9 To 6.495 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
0
-4
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
66
Incident Energy (eV)
80-Hg-202

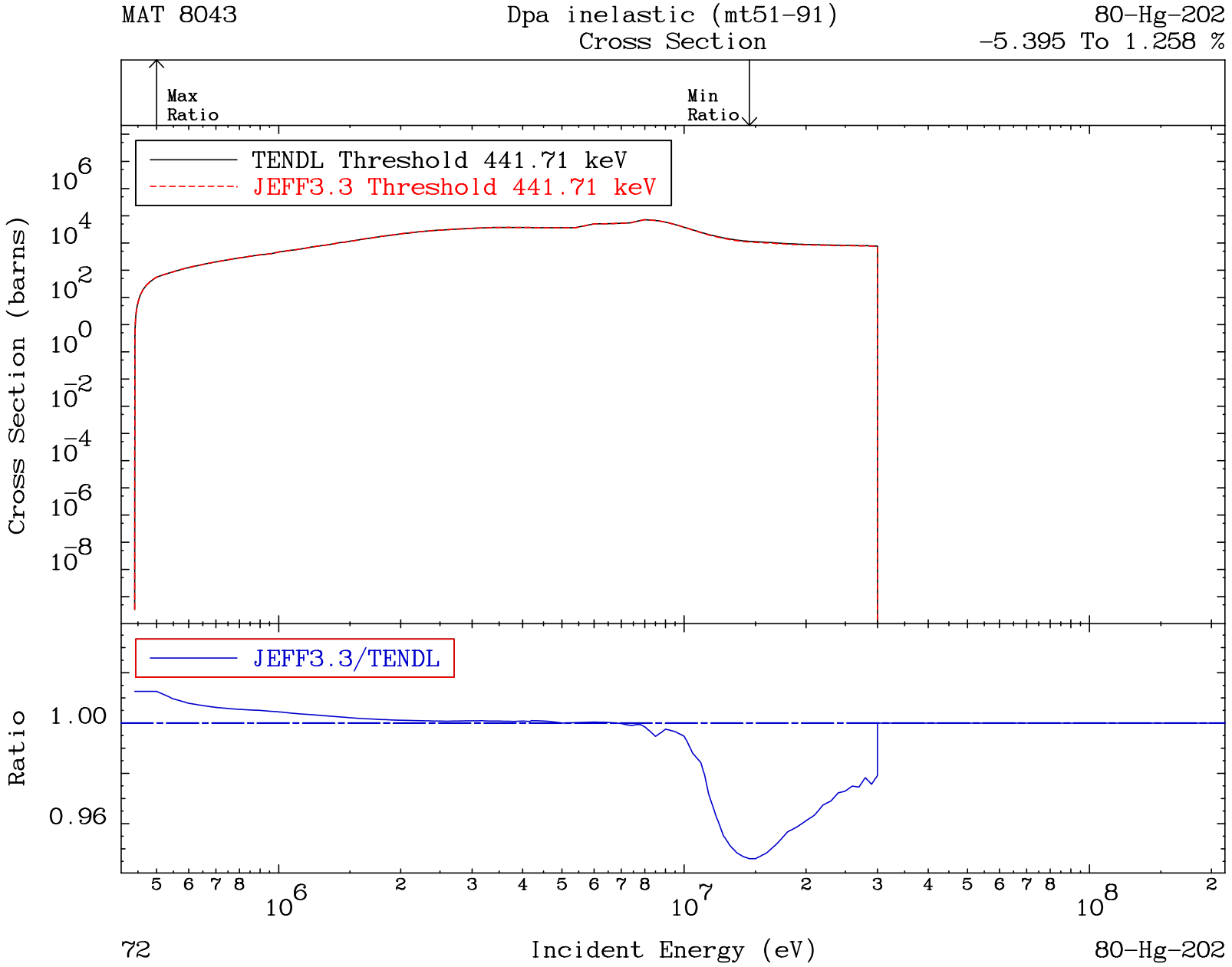

MAT 8043
Kerma capture (mt102)
Cross Section
80-Hg-202
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
67
80-Hg-202

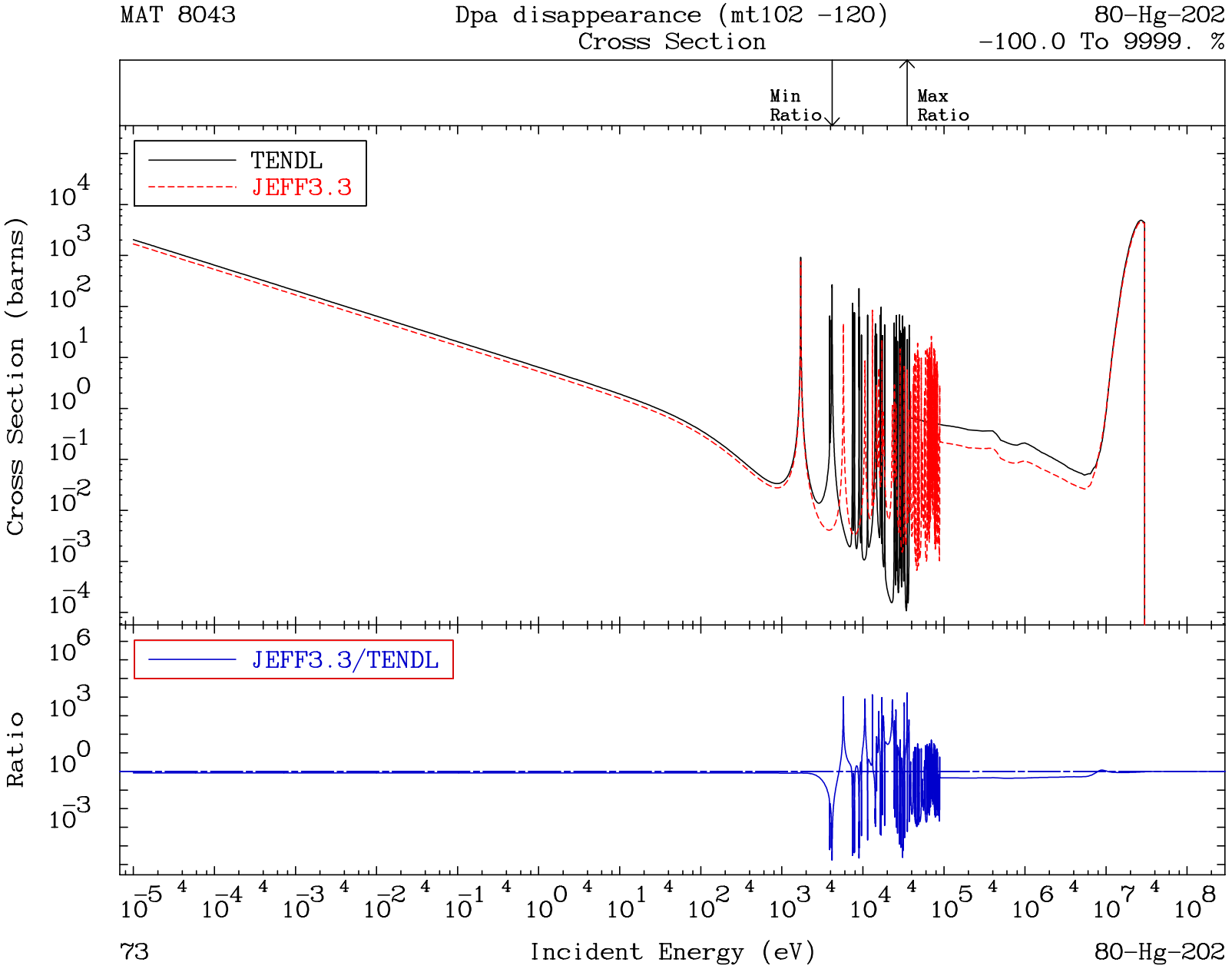

MAT 8043
Total photon (eV-barns)
Cross Section
80-Hg-202
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
80-Hg-202

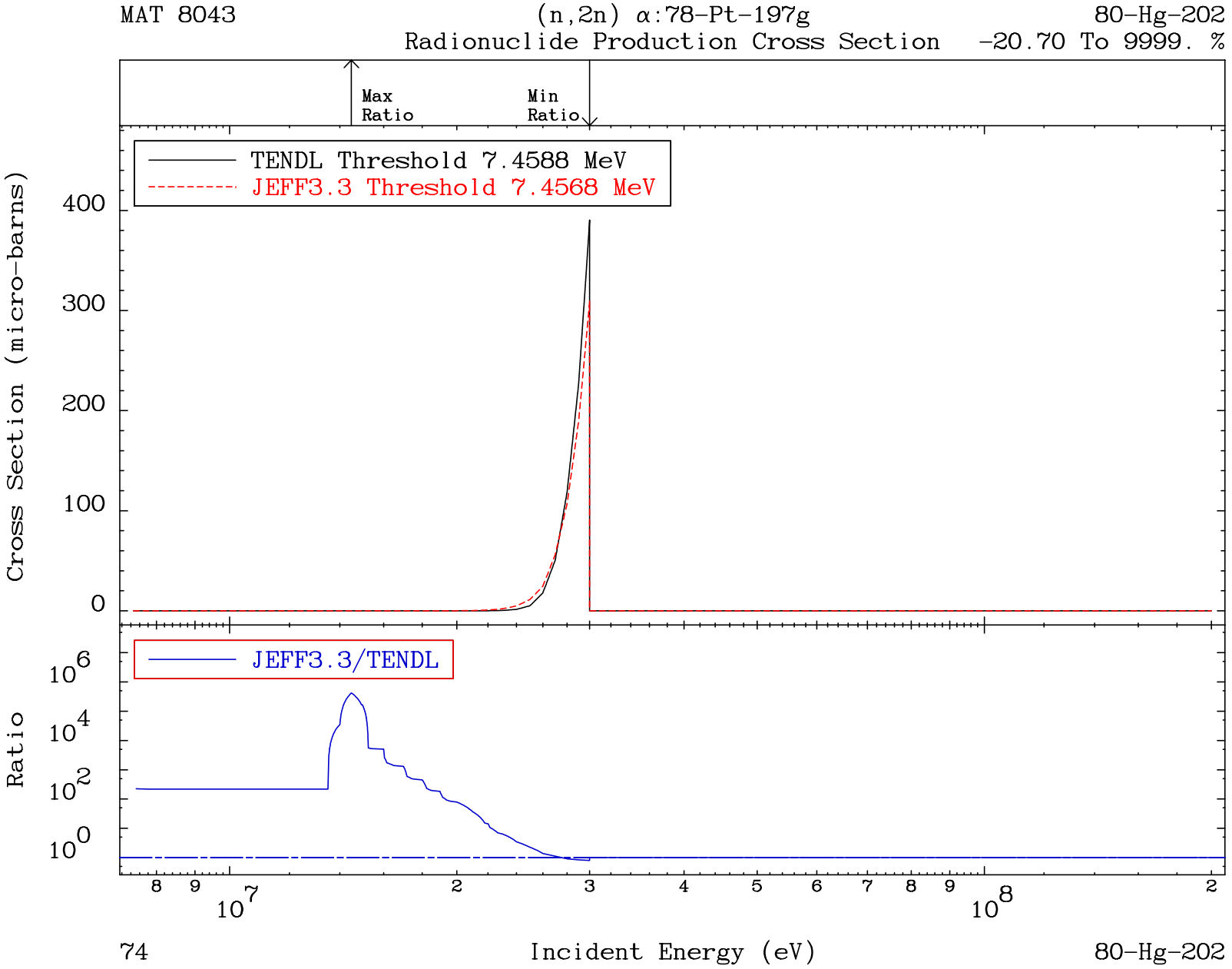

MAT 8043
Total kinematic kerma (high limit)
Cross Section
80-Hg-202
-99.93 To 3141. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
80-Hg-202

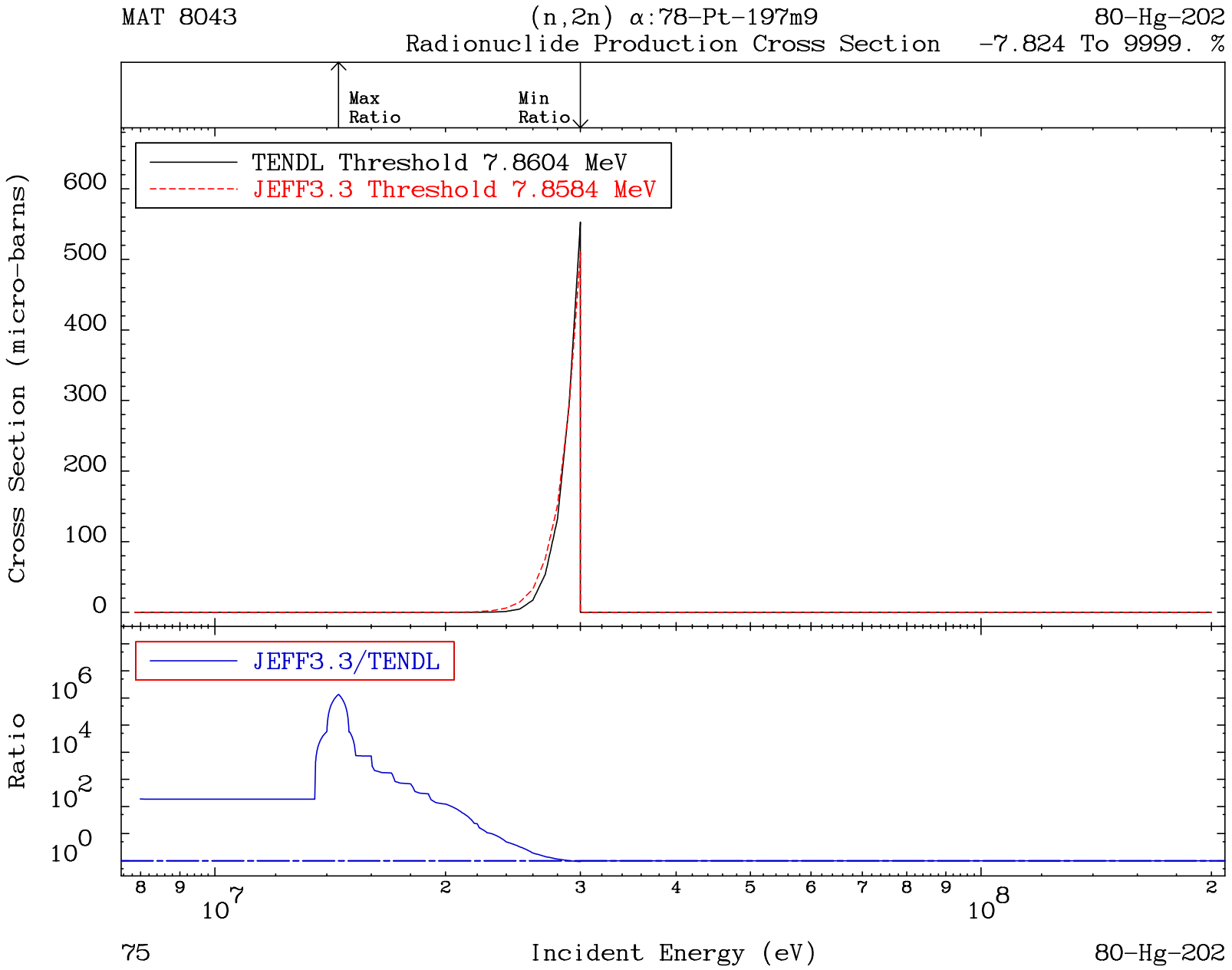

MAT 8043
Dpa total (eV-barns)
Cross Section
80-Hg-202
-99.93 To 3136. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
80-Hg-202

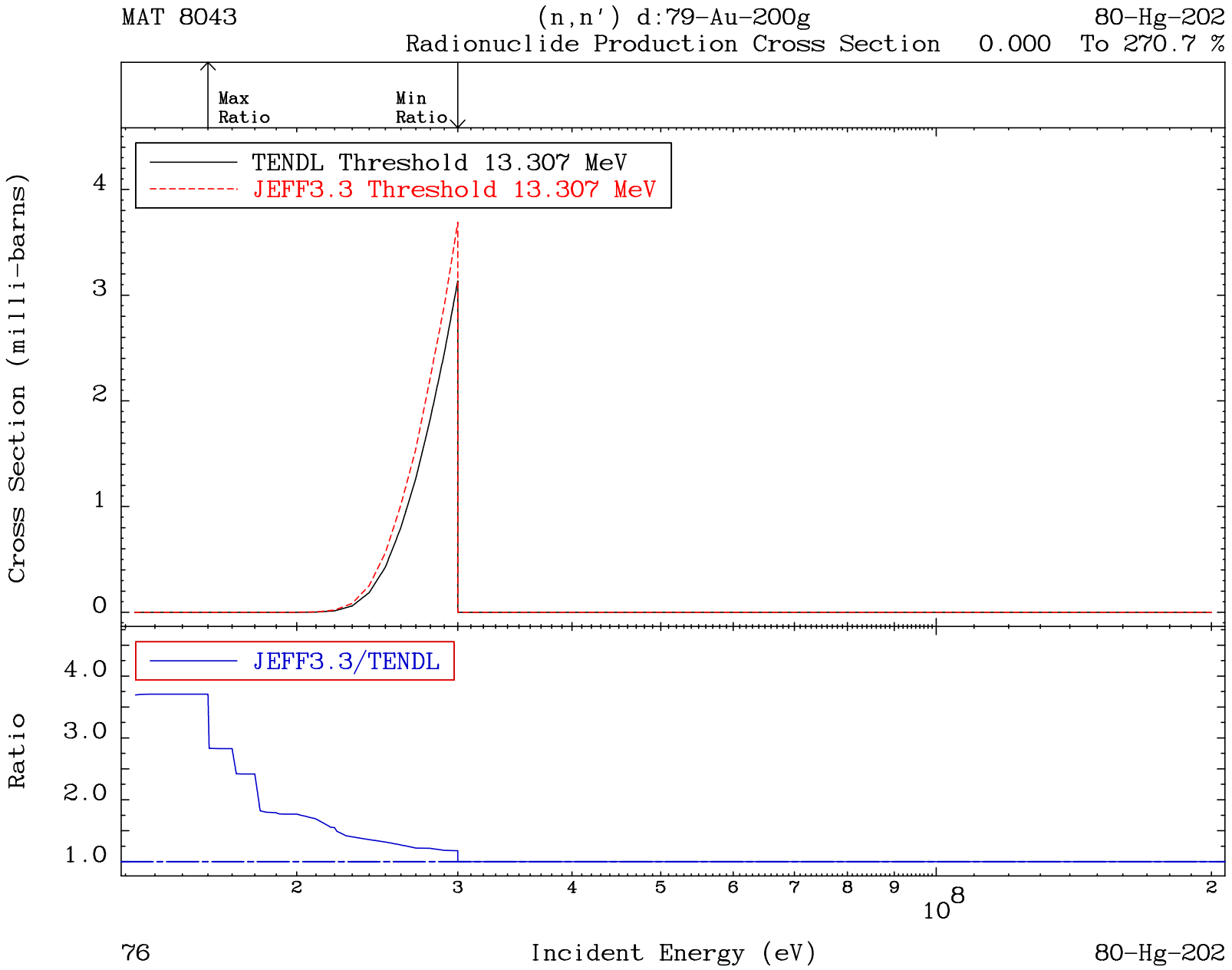

MAT 8043
Dpa elastic (mt2)
Cross Section
80-Hg-202
-99.94 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.1795 keV
JEFF3.3 Threshold 1.1933 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
71
80-Hg-202

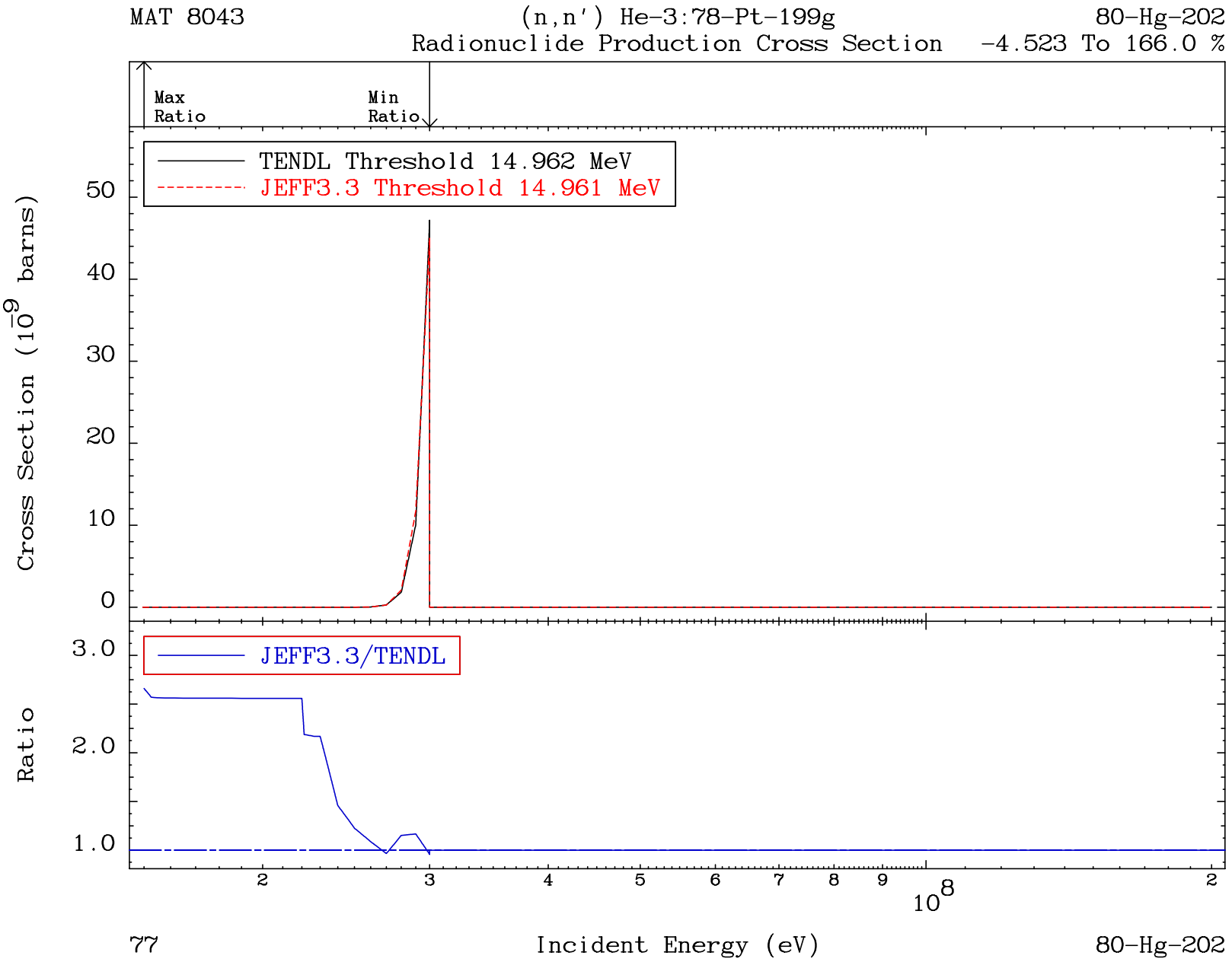

MAT 8043
Dpa inelastic (mt51-91)
Cross Section
80-Hg-202
-5.395 To 1.258 %
Max Ratio
Min Ratio
TENDL Threshold 441.71 keV
JEFF3.3 Threshold 441.71 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
1.00
0.96
Incident Energy (eV)
72
80-Hg-202

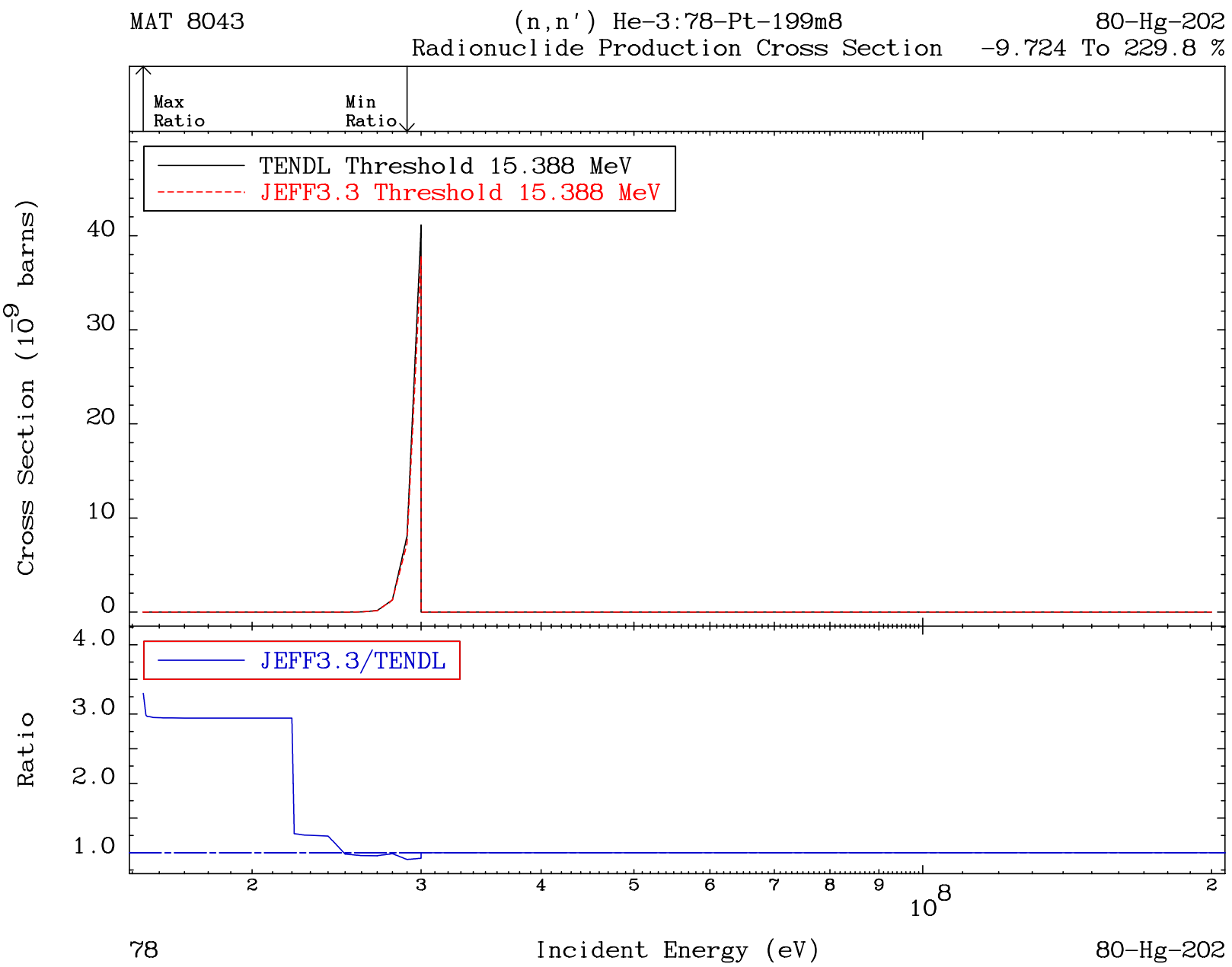

MAT 8043
Dpa disappearance (mt102 -120)
Cross Section
80-Hg-202
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
73
80-Hg-202

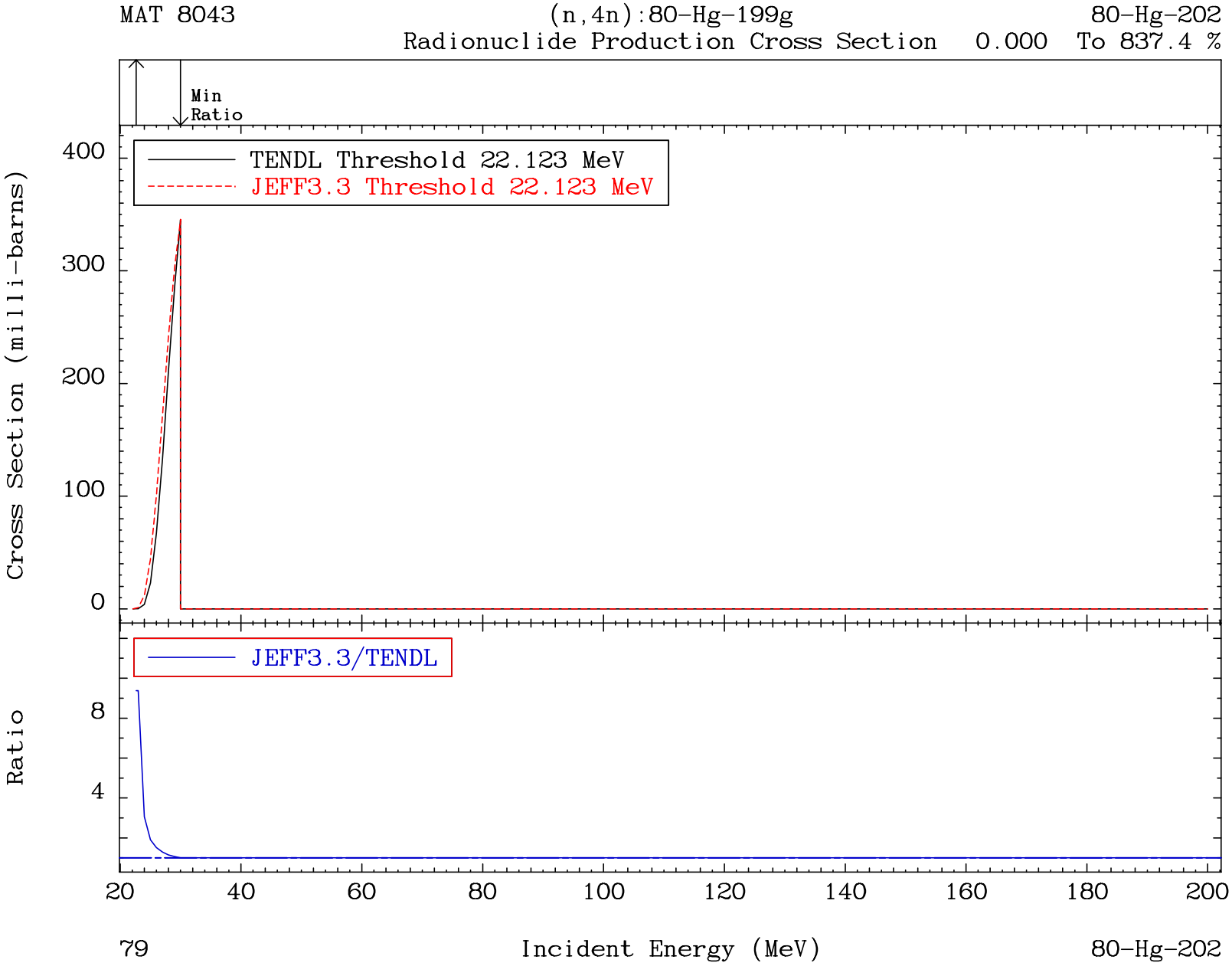

MAT 8043
(n,2n) α:78-Pt-197g
80-Hg-202
Radionuclide Production Cross Section -20.70 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.4588 MeV
JEFF3.3 Threshold 7.4568 MeV
Cross Section (micro-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^6
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
74
Incident Energy (eV)
80-Hg-202

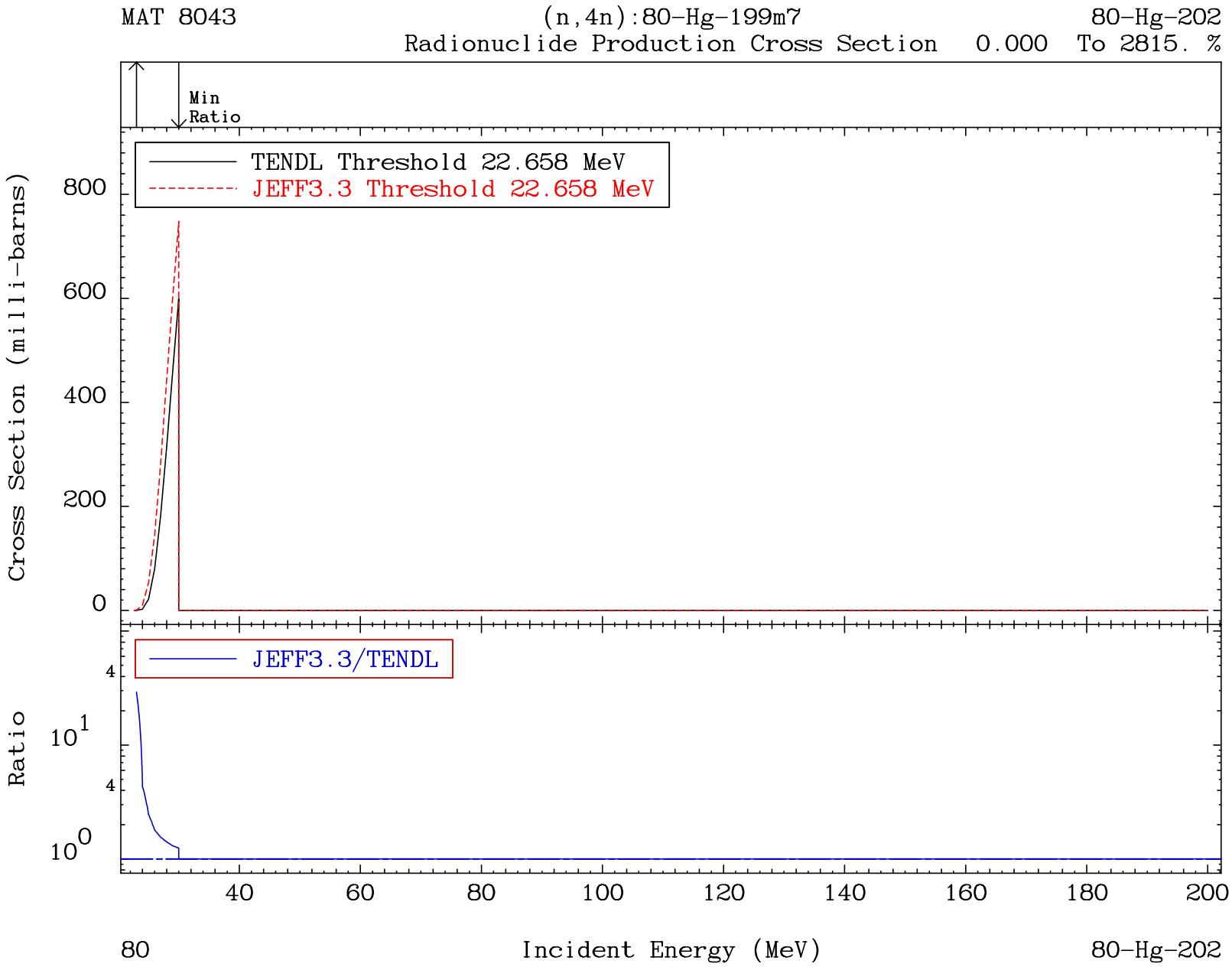

MAT 8043
(n,2n) α:78-Pt-197m9
80-Hg-202
Radionuclide Production Cross Section -7.824 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.8604 MeV
JEFF3.3 Threshold 7.8584 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^6
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
75
Incident Energy (eV)
80-Hg-202

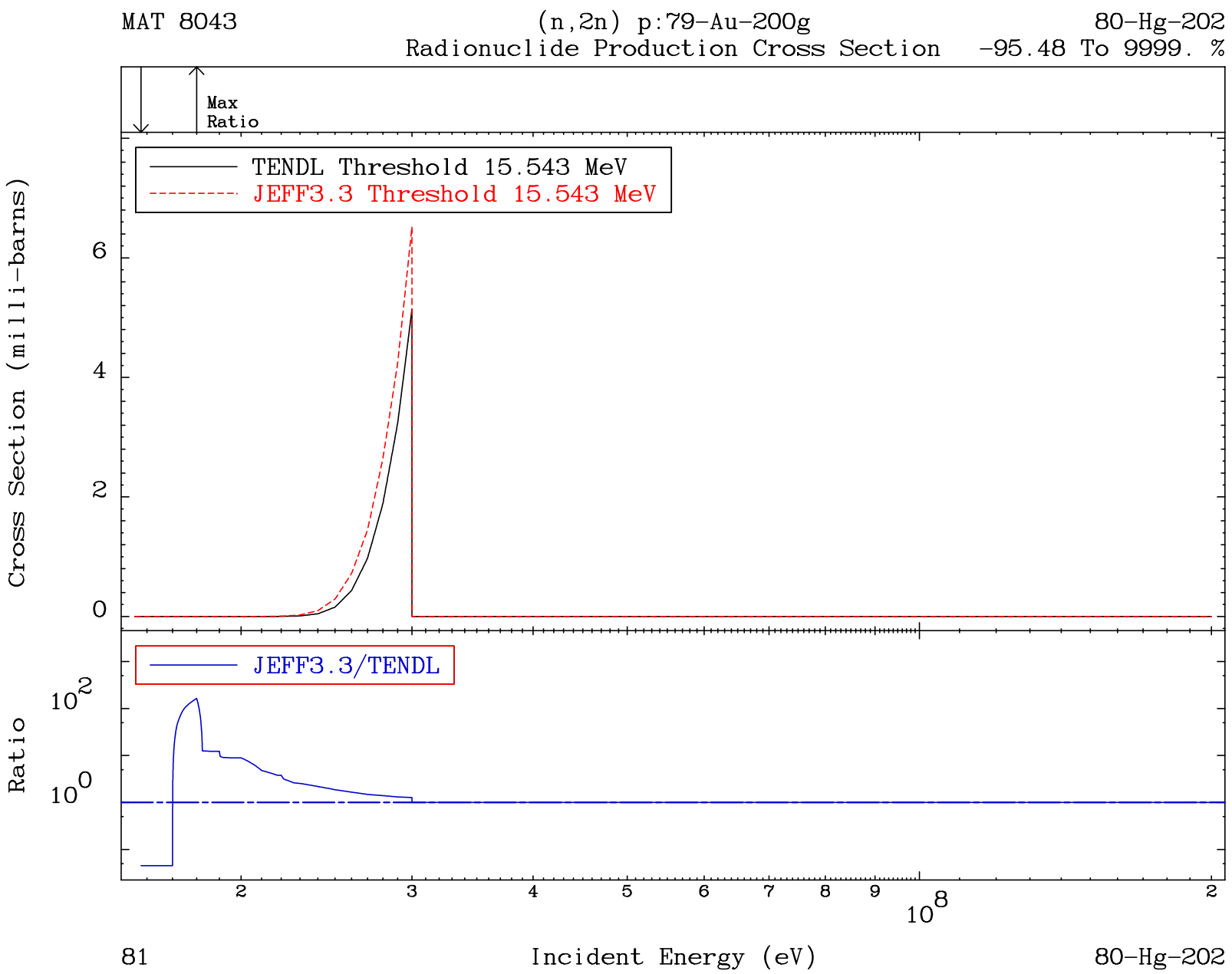

MAT 8043
(n,n') d:79-Au-200g
80-Hg-202
Radionuclide Production Cross Section 0.000 To 270.7 %
Max Ratio
Min Ratio
TENDL Threshold 13.307 MeV
JEFF3.3 Threshold 13.307 MeV
Cross Section (milli-barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
1.0
2.0
3.0
4.0
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
80-Hg-202

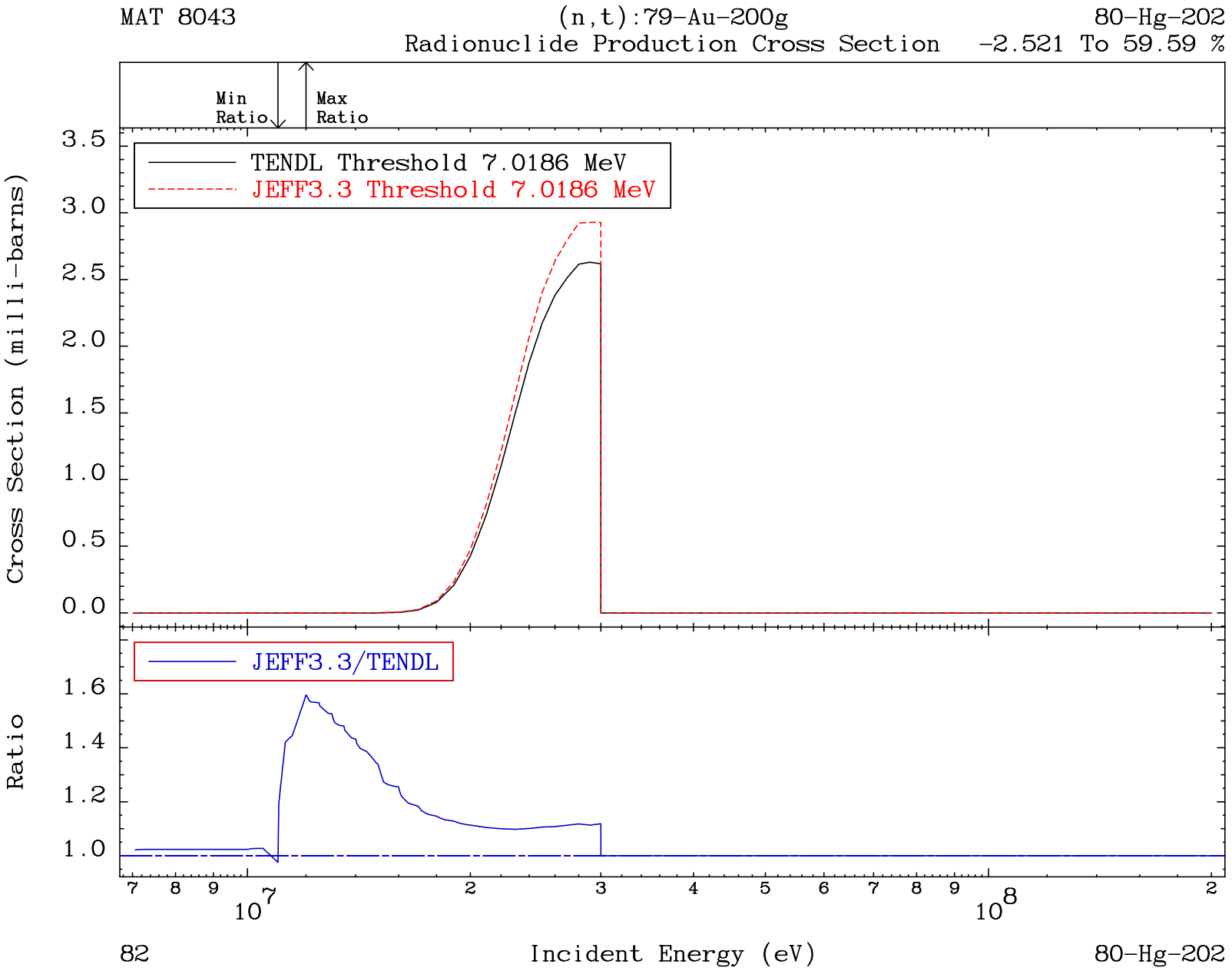

MAT 8043
(n,n') He-3:78-Pt-199g
80-Hg-202
Radionuclide Production Cross Section
-4.523 To 166.0 %
Max Ratio
Min Ratio
TENDL Threshold 14.962 MeV
JEFF3.3 Threshold 14.961 MeV
Cross Section (10^{-9} barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
80-Hg-202


MAT 8043
(n,n') He-3:78-Pt-199m8
80-Hg-202
Radionuclide Production Cross Section
-9.724 To 229.8 %
Max Ratio
Min Ratio
TENDL Threshold 15.388 MeV
JEFF3.3 Threshold 15.388 MeV
Cross Section (10^{-9} barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
80-Hg-202


MAT 8043
(n,4n):80-Hg-199g
80-Hg-202
Radionuclide Production Cross Section 0.000 To 837.4 %
Min Ratio
TENDL Threshold 22.123 MeV
JEFF3.3 Threshold 22.123 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
8
4
20
40
60
80
100
120
140
160
180
200
79
Incident Energy (MeV)
80-Hg-202


MAT 8043
(n,4n):80-Hg-199m7
80-Hg-202
Radionuclide Production Cross Section 0.000 To 2815. %
Min Ratio
TENDL Threshold 22.658 MeV
JEFF3.3 Threshold 22.658 MeV
Cross Section (milli-barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
4
10^1
4
10^0
40
60
80
100
120
140
160
180
200
80
Incident Energy (MeV)
80-Hg-202


MAT 8043
(n,2n) p:79-Au-200g
80-Hg-202
Radionuclide Production Cross Section
-95.48 To 9999. %
Max
Ratio
TENDL Threshold 15.543 MeV
JEFF3.3 Threshold 15.543 MeV
Cross Section (milli-barns)
0
2
4
6
JEFF3.3/TENDL
Ratio
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
80-Hg-202


MAT 8043
(n,t):79-Au-200g
80-Hg-202
Radionuclide Production Cross Section
-2.521 To 59.59 %
Min Ratio
Max Ratio
TENDL Threshold 7.0186 MeV
JEFF3.3 Threshold 7.0186 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
1.6
1.4
1.2
1.0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
82
Incident Energy (eV)
80-Hg-202