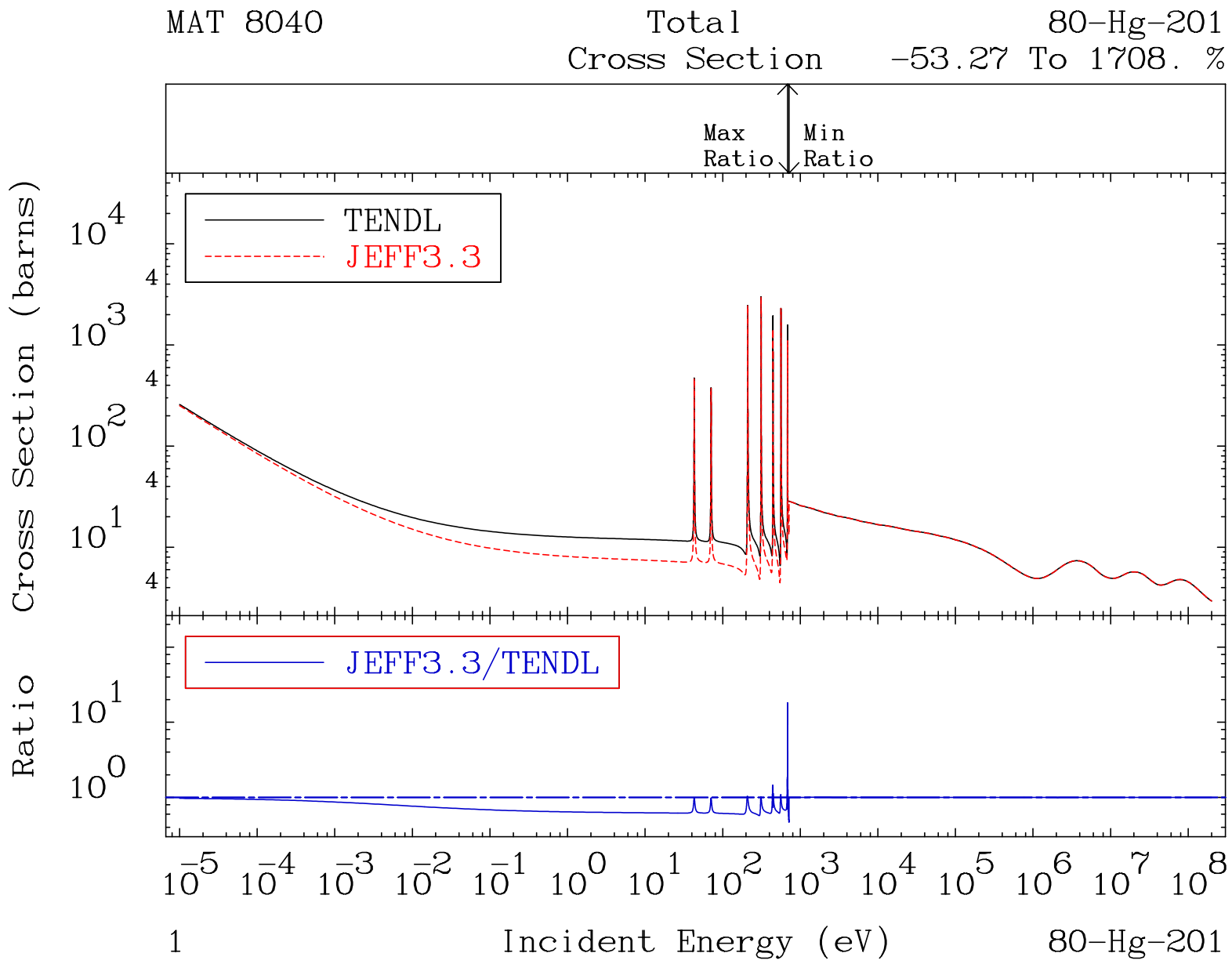
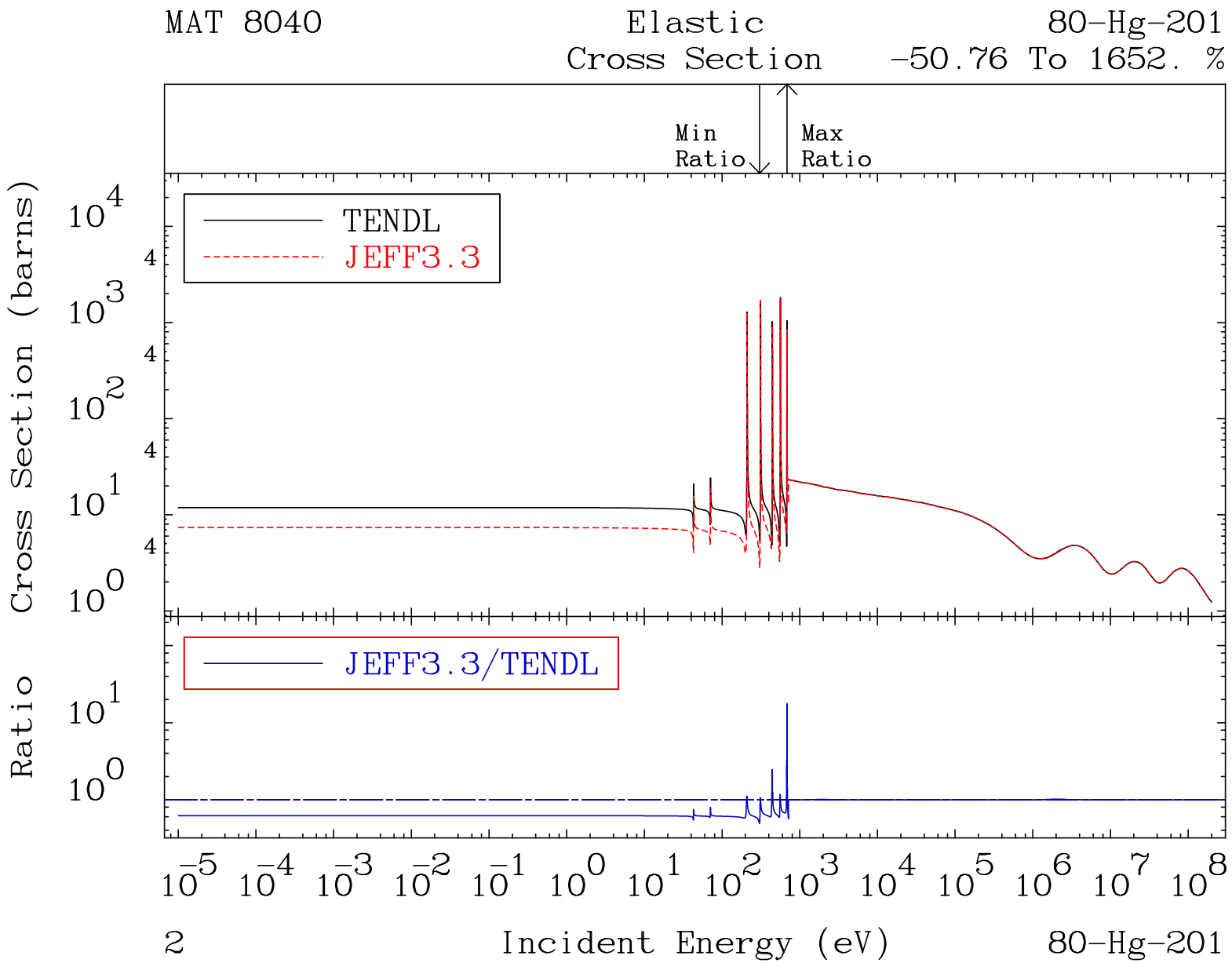
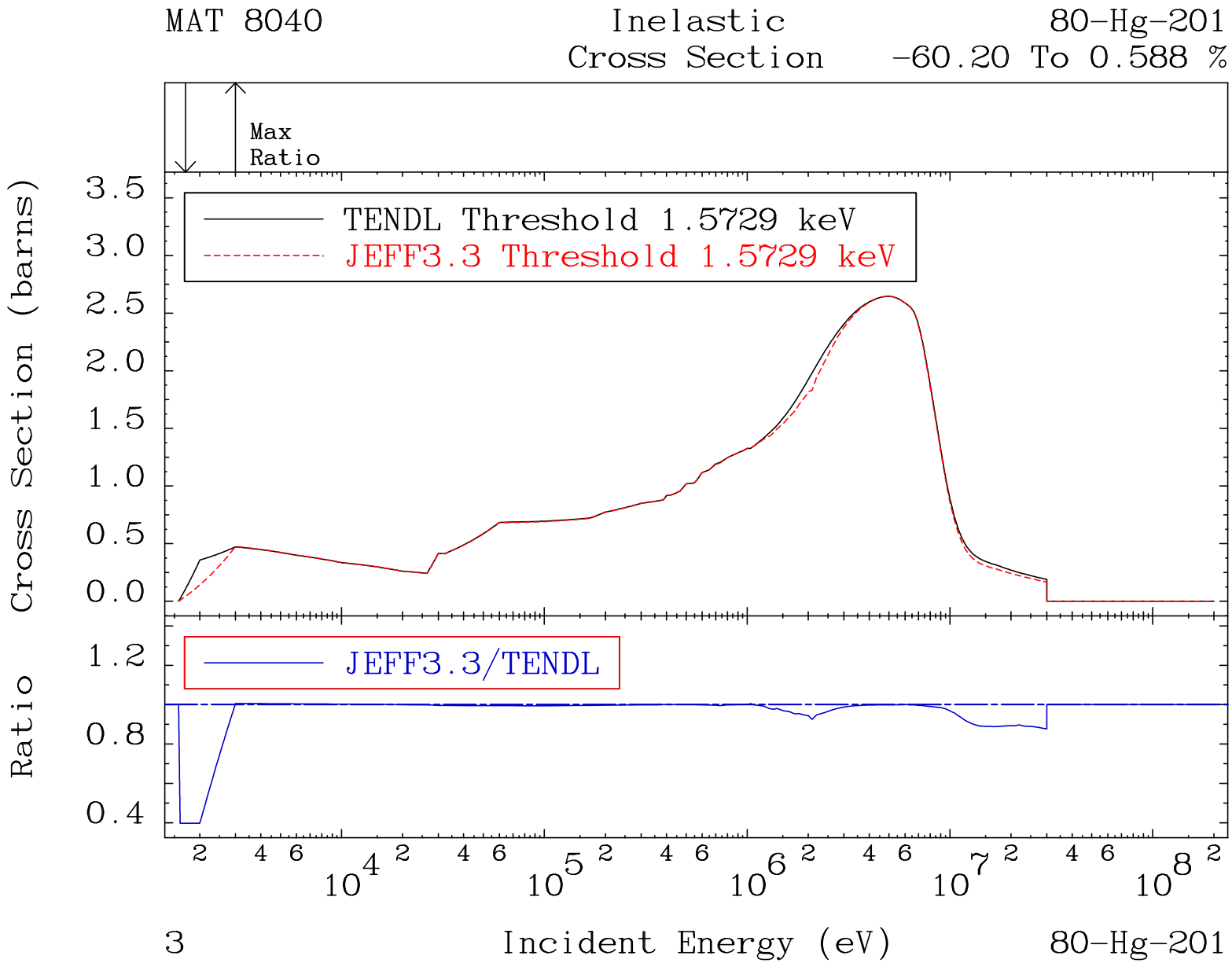
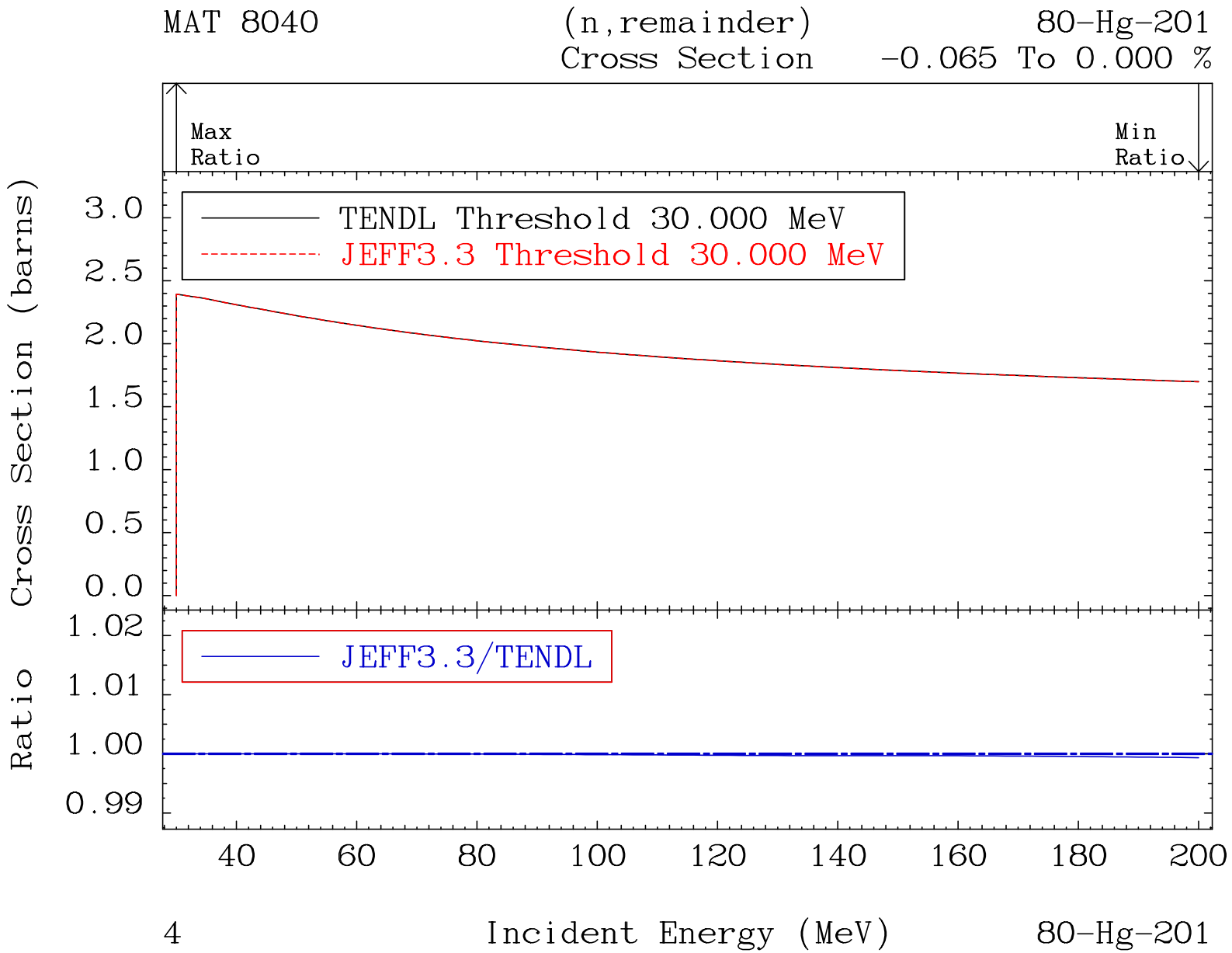
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

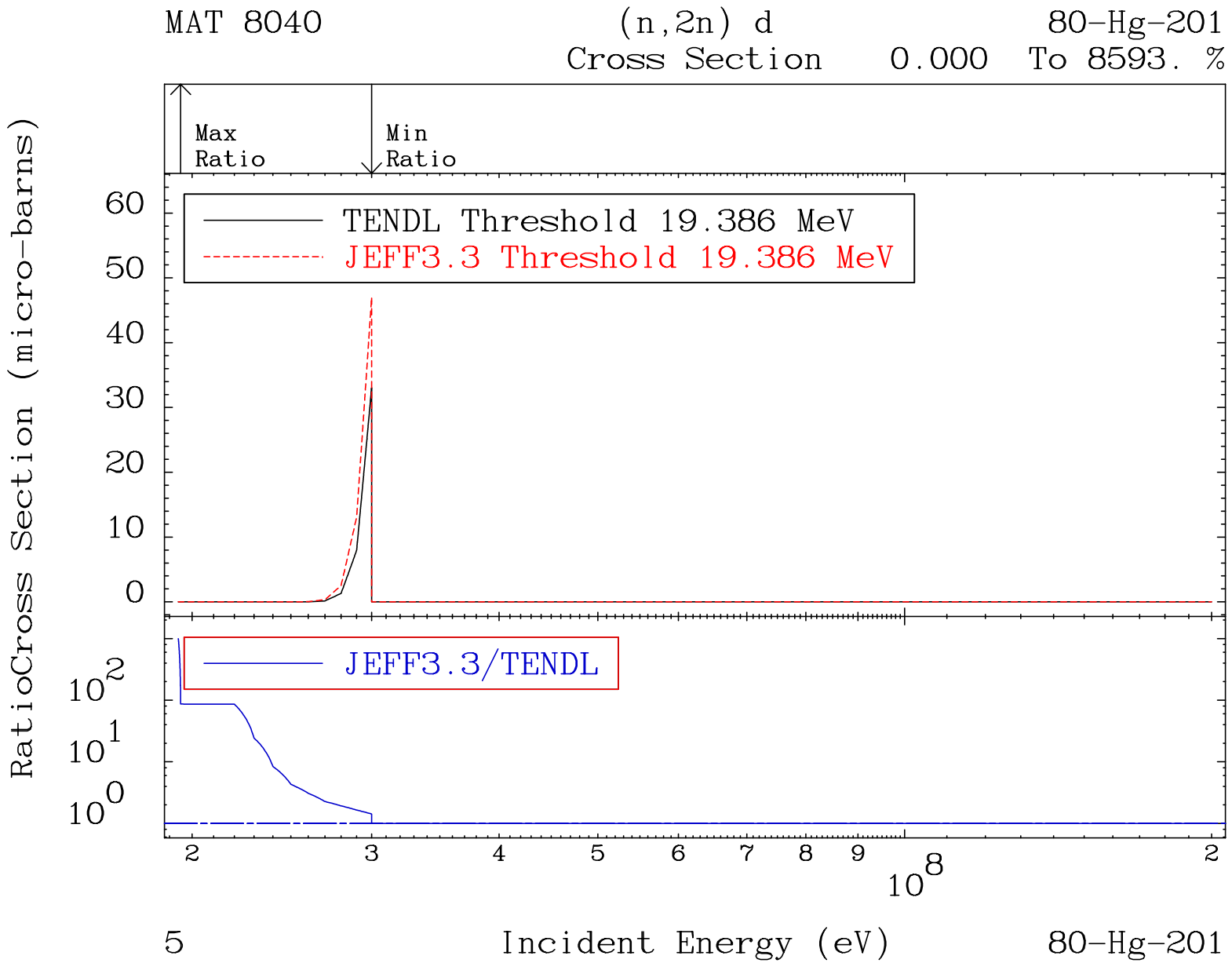
Press Mouse Button to Start

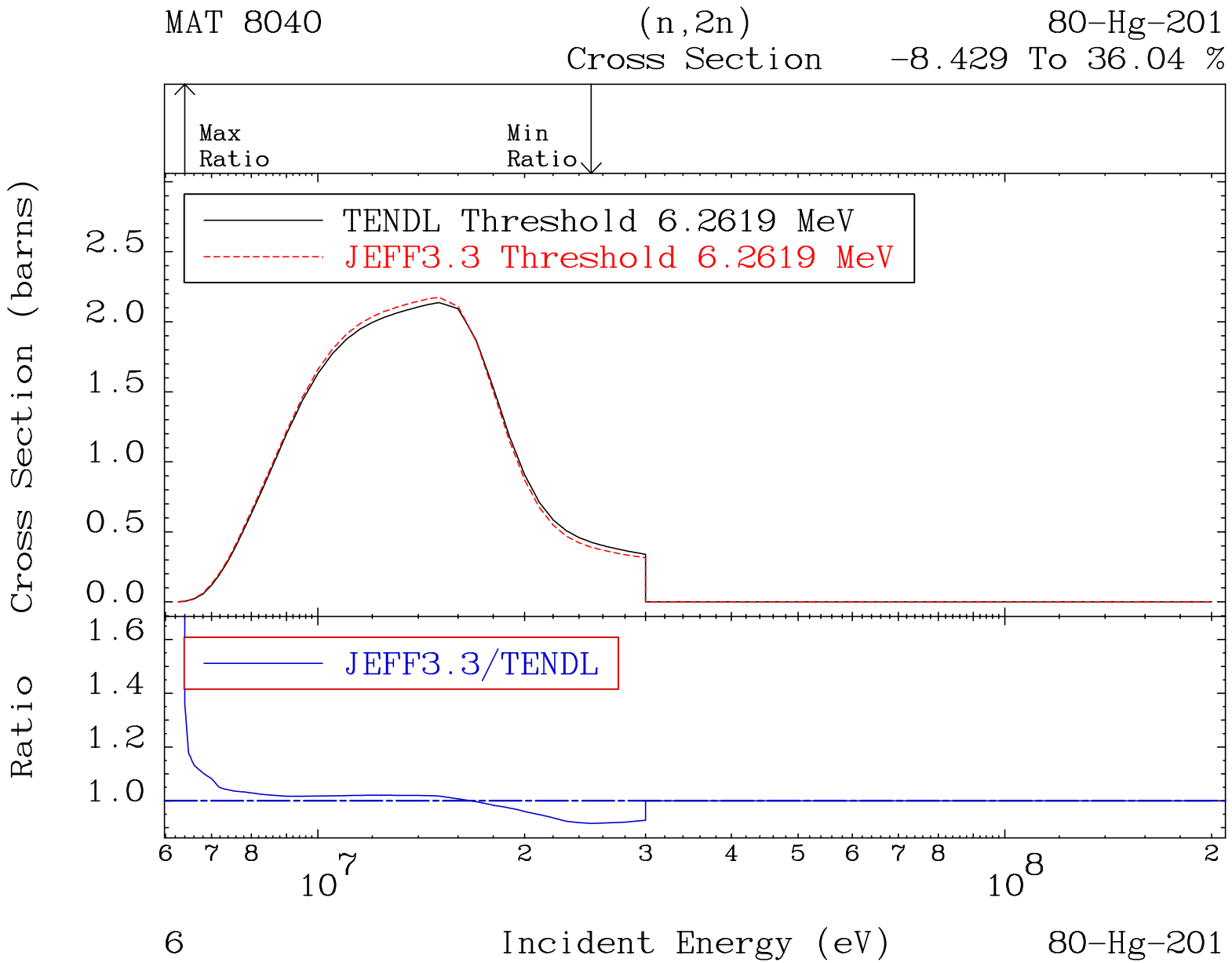

MAT 8040
Total
Cross Section
80-Hg-201
-53.27 To 1708. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
80-Hg-201

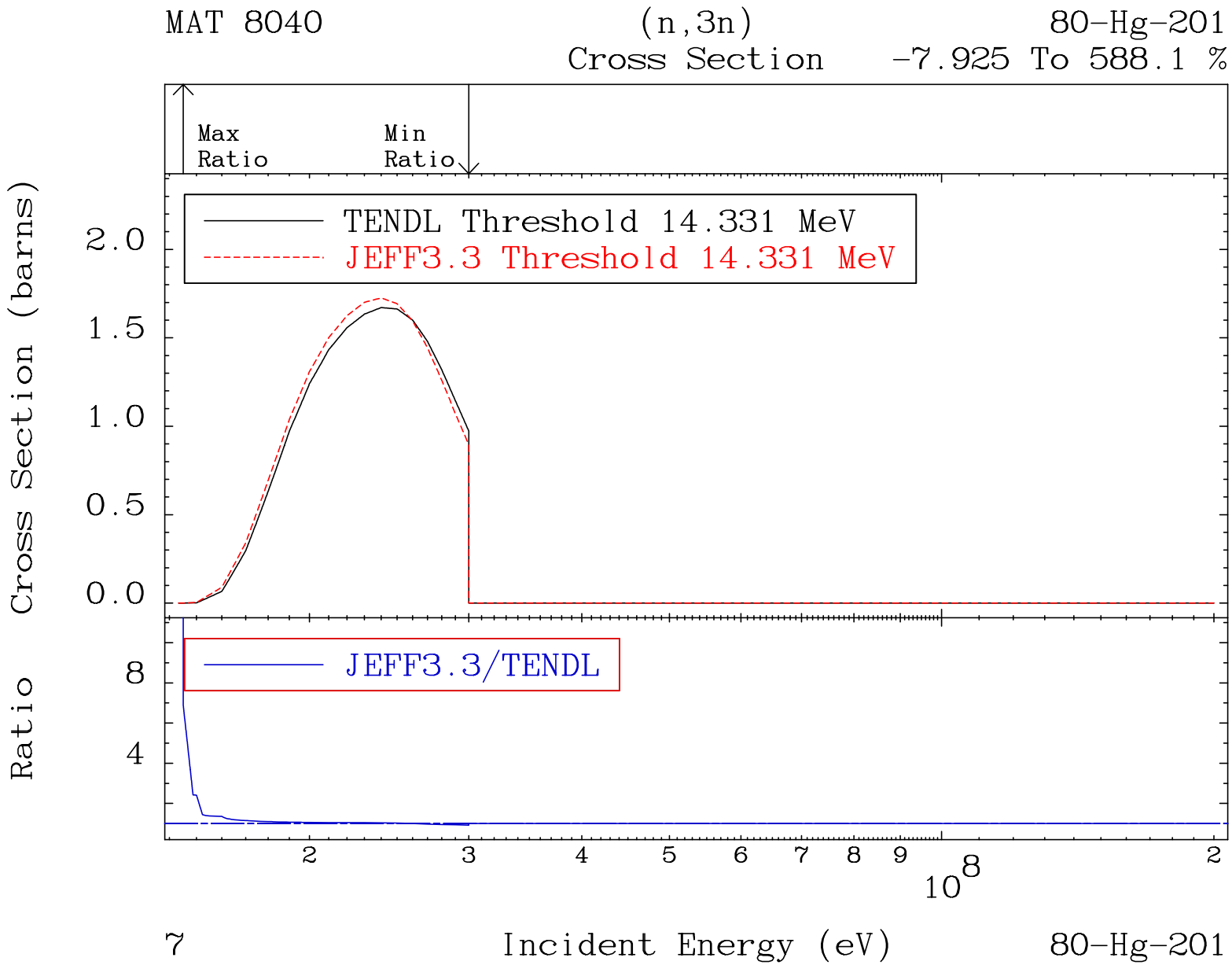

MAT 8040
Elastic
Cross Section
80-Hg-201
-50.76 To 1652. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
80-Hg-201

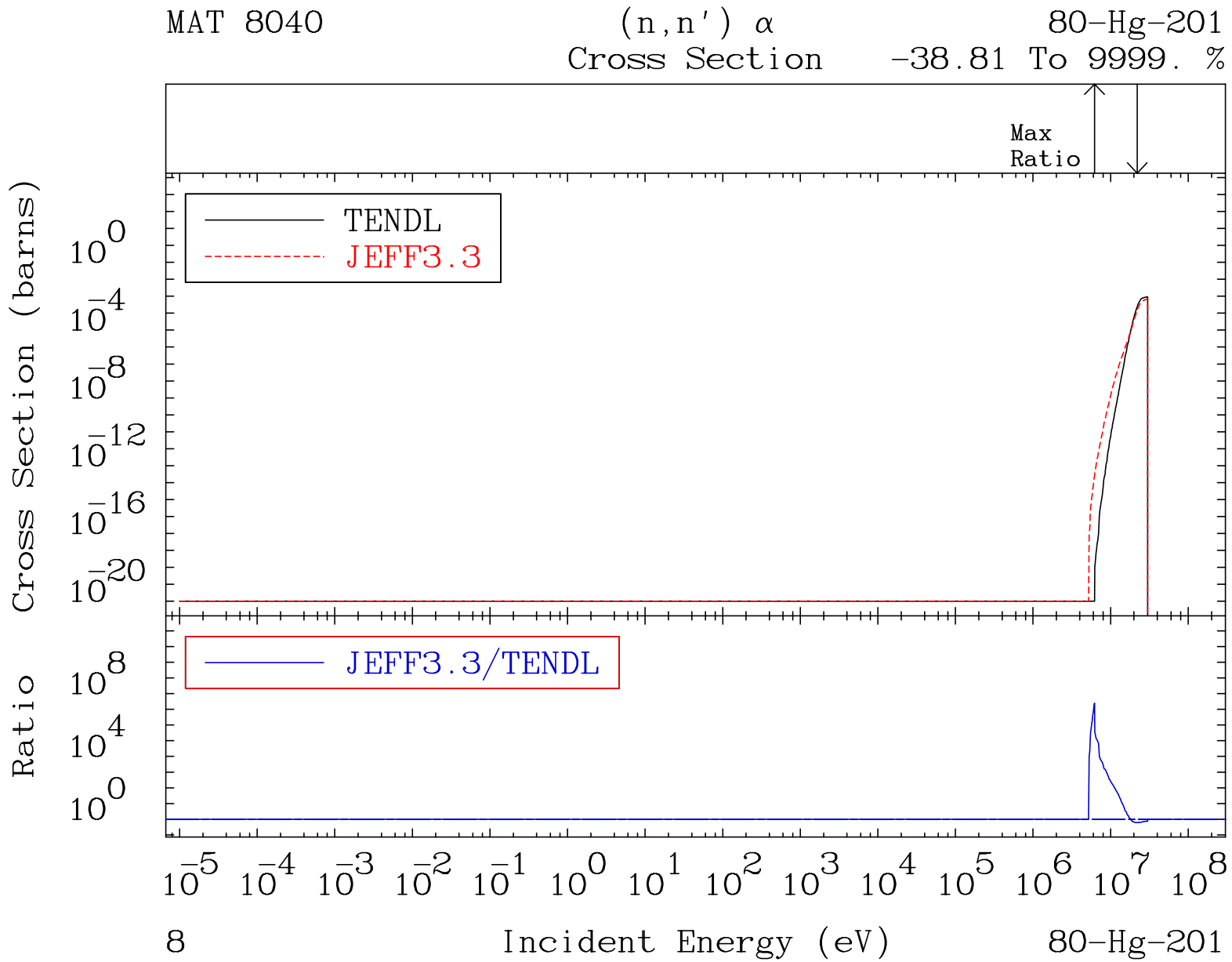

MAT 8040
Inelastic
Cross Section
80-Hg-201
-60.20 To 0.588 %
Max
Ratio
TENDL Threshold 1.5729 keV
JEFF3.3 Threshold 1.5729 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
80-Hg-201

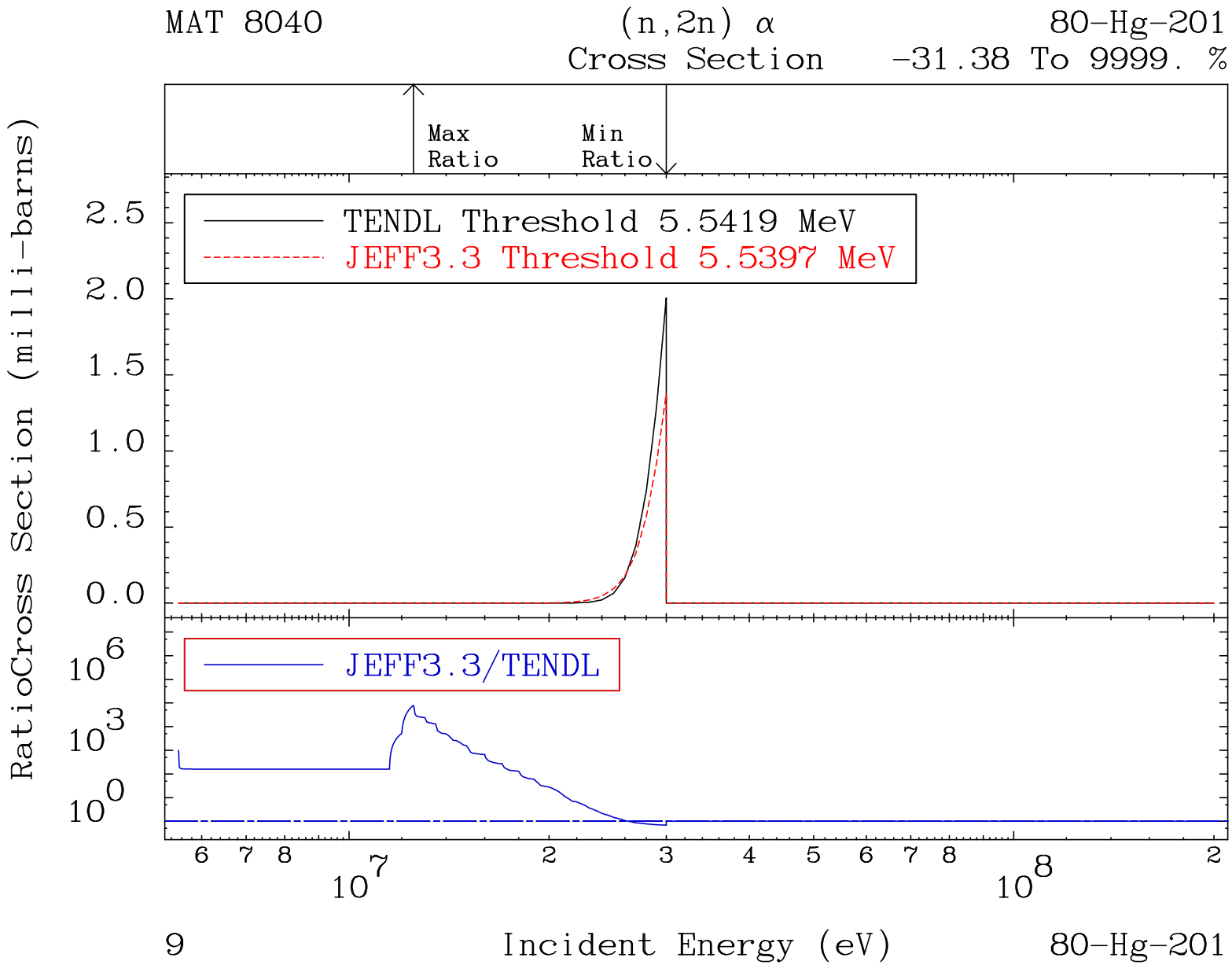

MAT 8040
(n,remainder)
Cross Section
80-Hg-201
-0.065 To 0.000 %
Max
Ratio
Min
Ratio
TENDL Threshold 30.000 MeV
JEFF3.3 Threshold 30.000 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
Incident Energy (MeV)
4
80-Hg-201

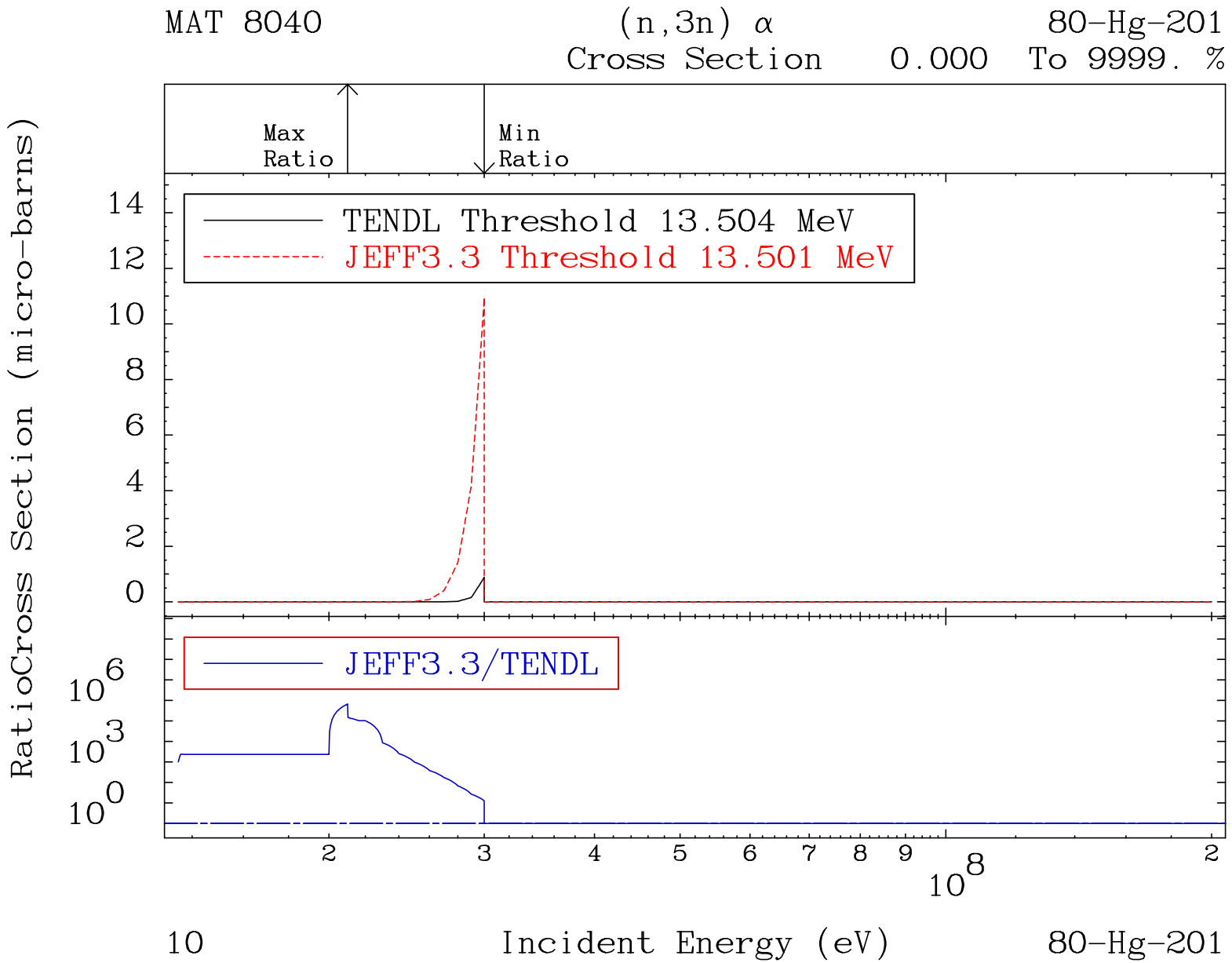

MAT 8040
(n,2n) d
Cross Section
80-Hg-201
0.000 To 8593. %
Max Ratio
Min Ratio
TENDL Threshold 19.386 MeV
JEFF3.3 Threshold 19.386 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
5
80-Hg-201

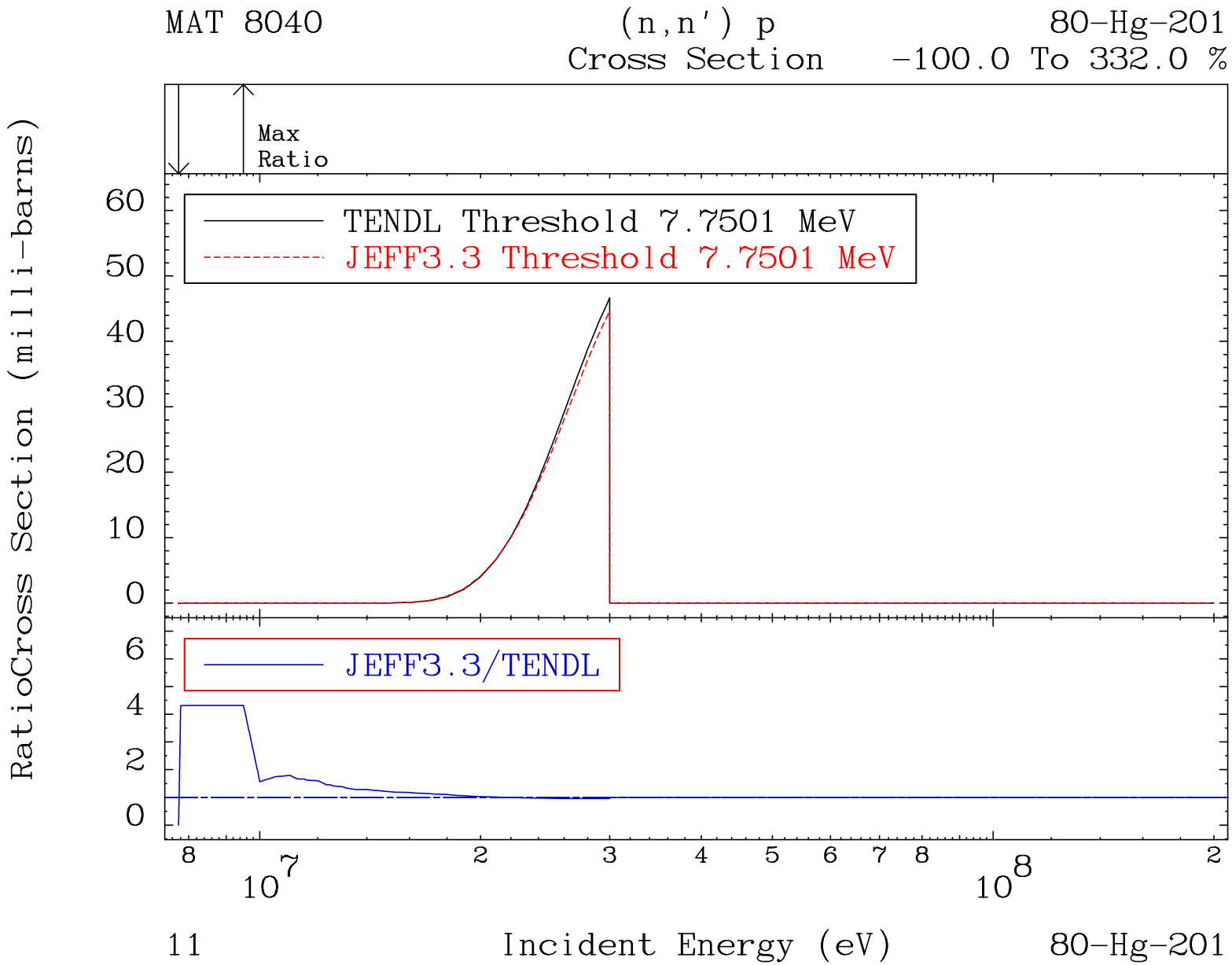

MAT 8040
(n,2n)
Cross Section
80-Hg-201
-8.429 To 36.04 %
Max Ratio
Min Ratio
TENDL Threshold 6.2619 MeV
JEFF3.3 Threshold 6.2619 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
80-Hg-201
6

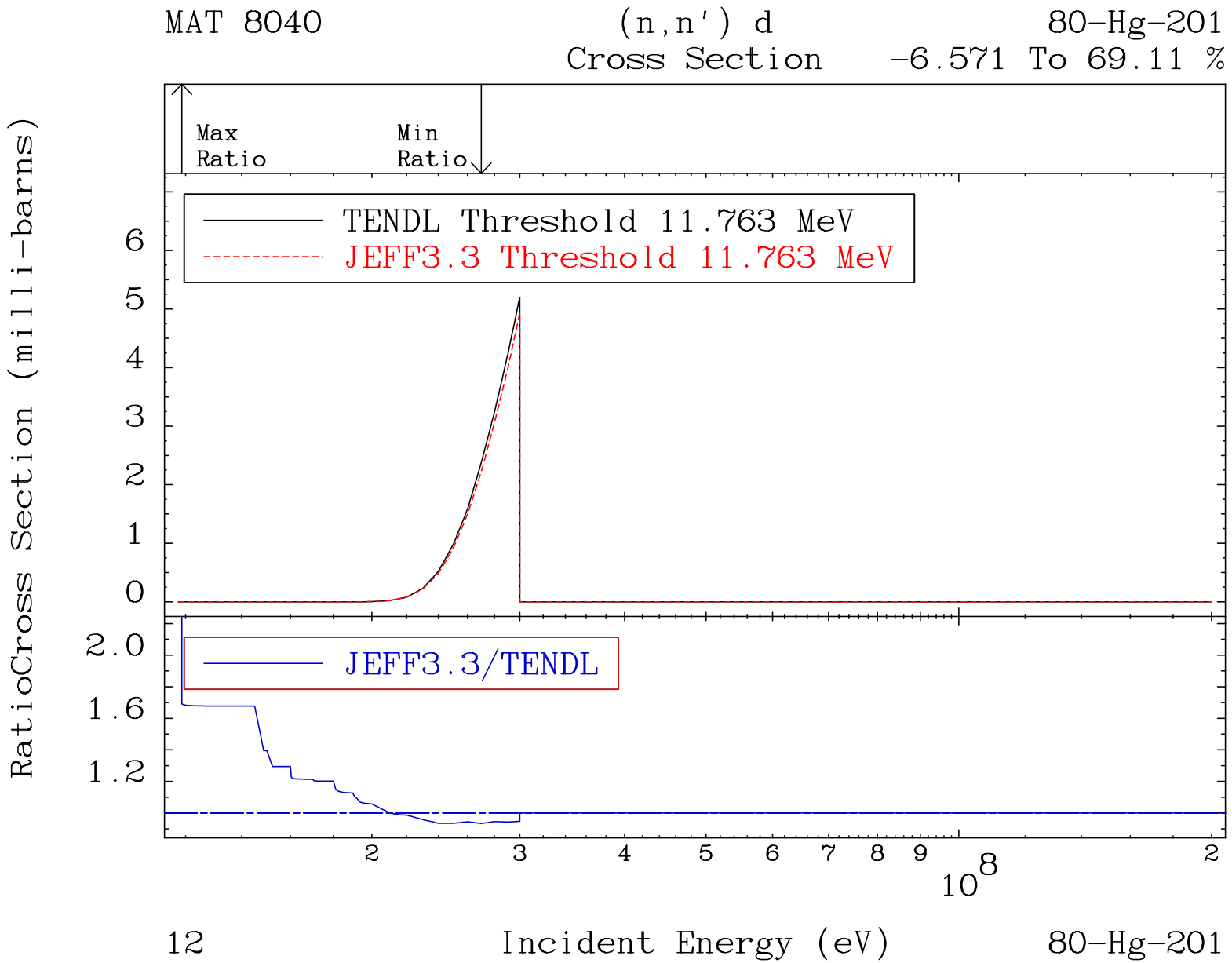

MAT 8040
(n,3n)
Cross Section
80-Hg-201
-7.925 To 588.1 %
Max Ratio
Min Ratio
TENDL Threshold 14.331 MeV
JEFF3.3 Threshold 14.331 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
8
4
2
3
4
5
6
7
8
9
2
10^8
7
Incident Energy (eV)
80-Hg-201

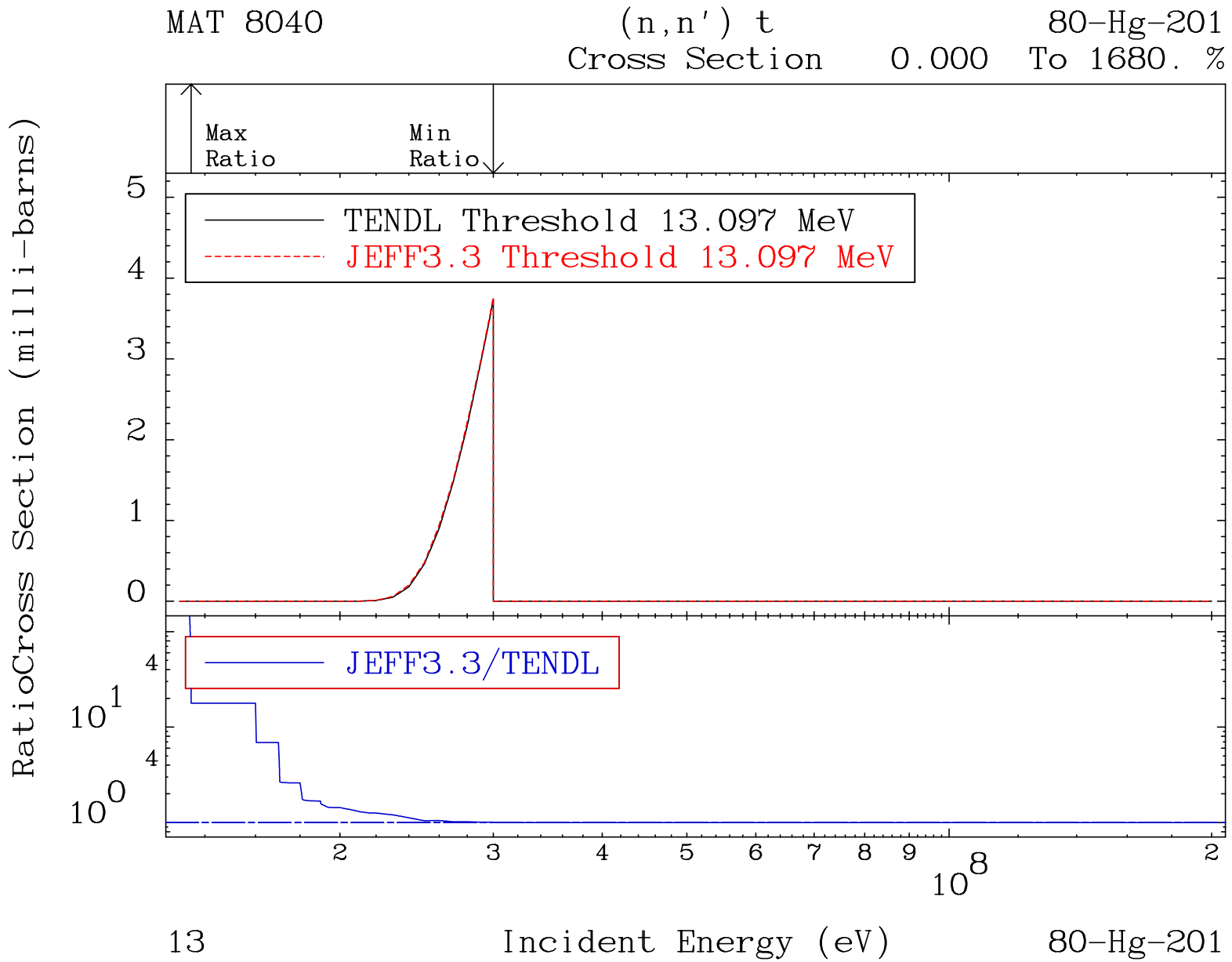

MAT 8040
(n,n') α
Cross Section
80-Hg-201
-38.81 To 9999. %
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
8
80-Hg-201

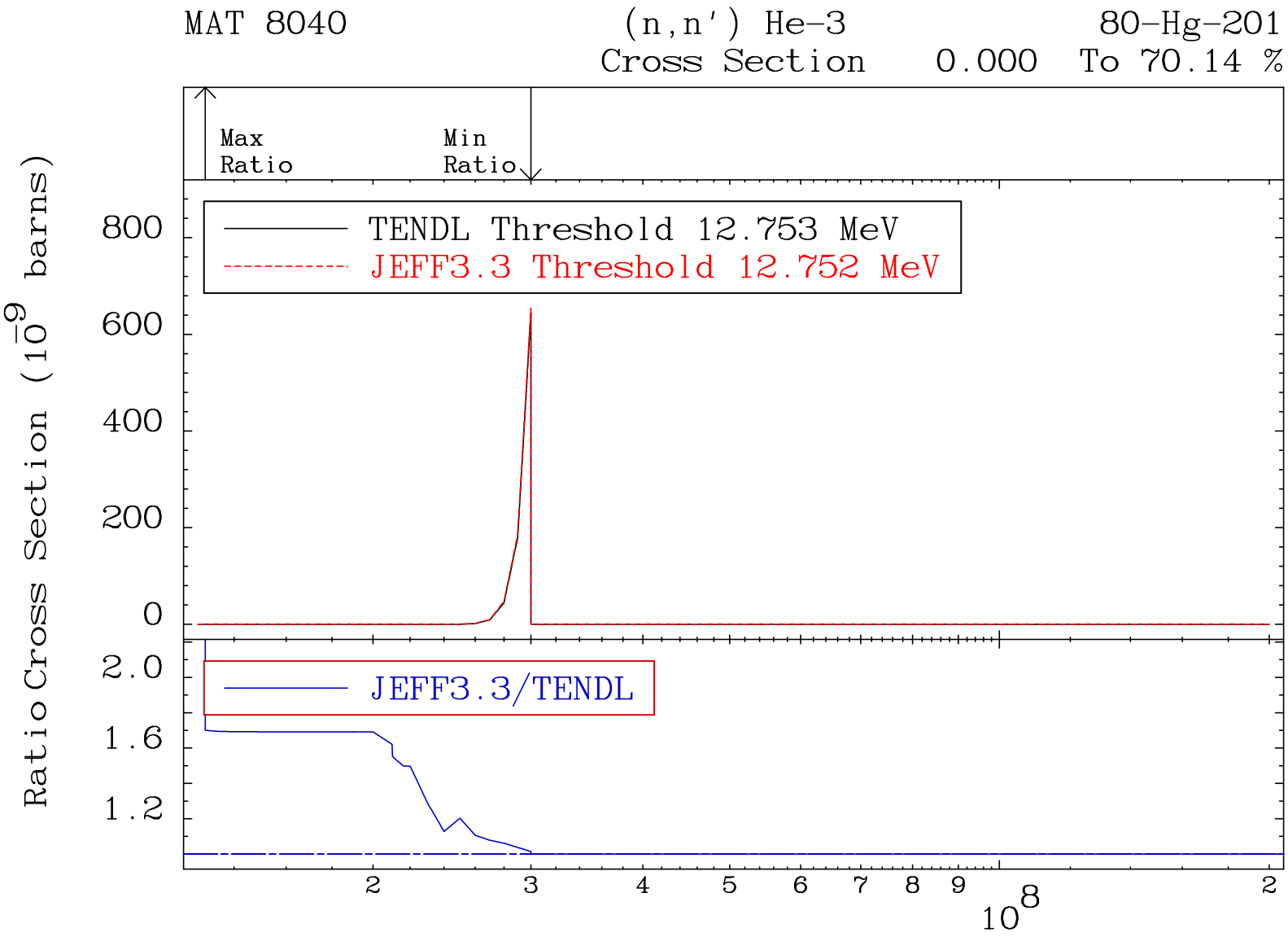

MAT 8040
(n,2n) α
Cross Section
80-Hg-201
-31.38 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.5419 MeV
JEFF3.3 Threshold 5.5397 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
10^6
10^3
10^0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
9
80-Hg-201

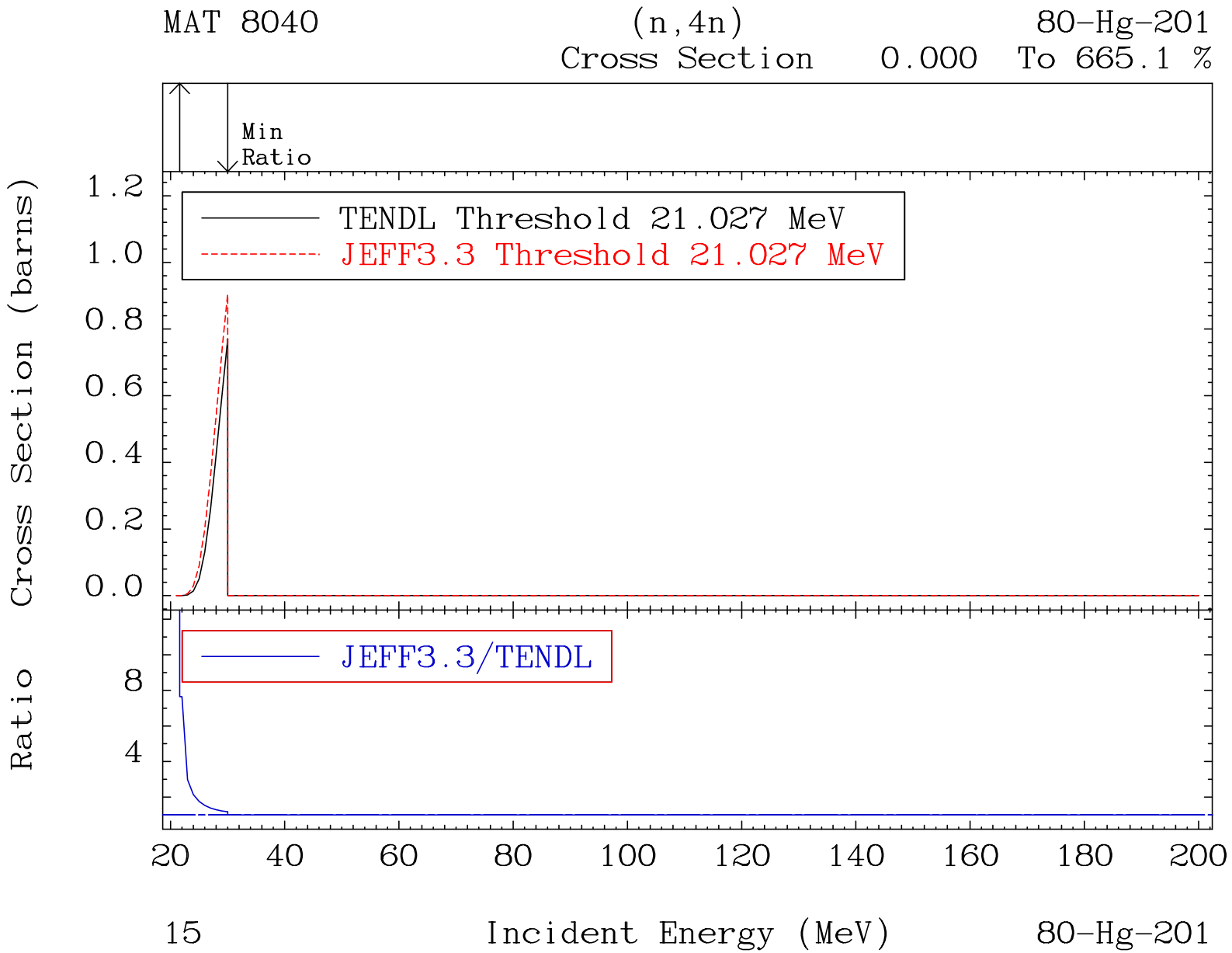

MAT 8040
(n,3n) α
80-Hg-201
Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.504 MeV
JEFF3.3 Threshold 13.501 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
14
12
10
8
6
4
2
0
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
80-Hg-201

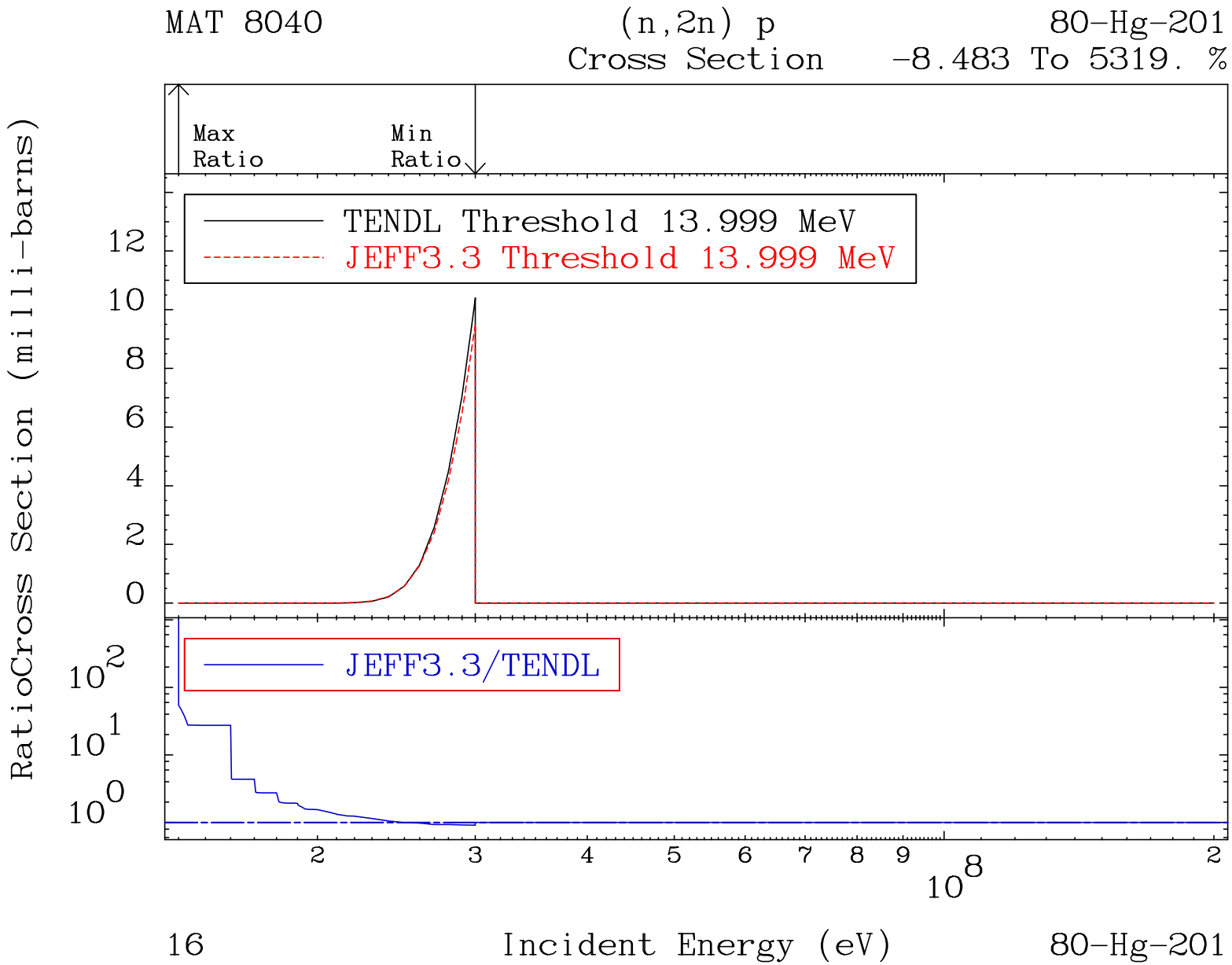

MAT 8040
(n,n') p
Cross Section
80-Hg-201
-100.0 To 332.0 %
Max
Ratio
TENDL Threshold 7.7501 MeV
JEFF3.3 Threshold 7.7501 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
6
4
2
0
8
2
3
4
5
6
7
8
2
10^7
10^8
11
Incident Energy (eV)
80-Hg-201

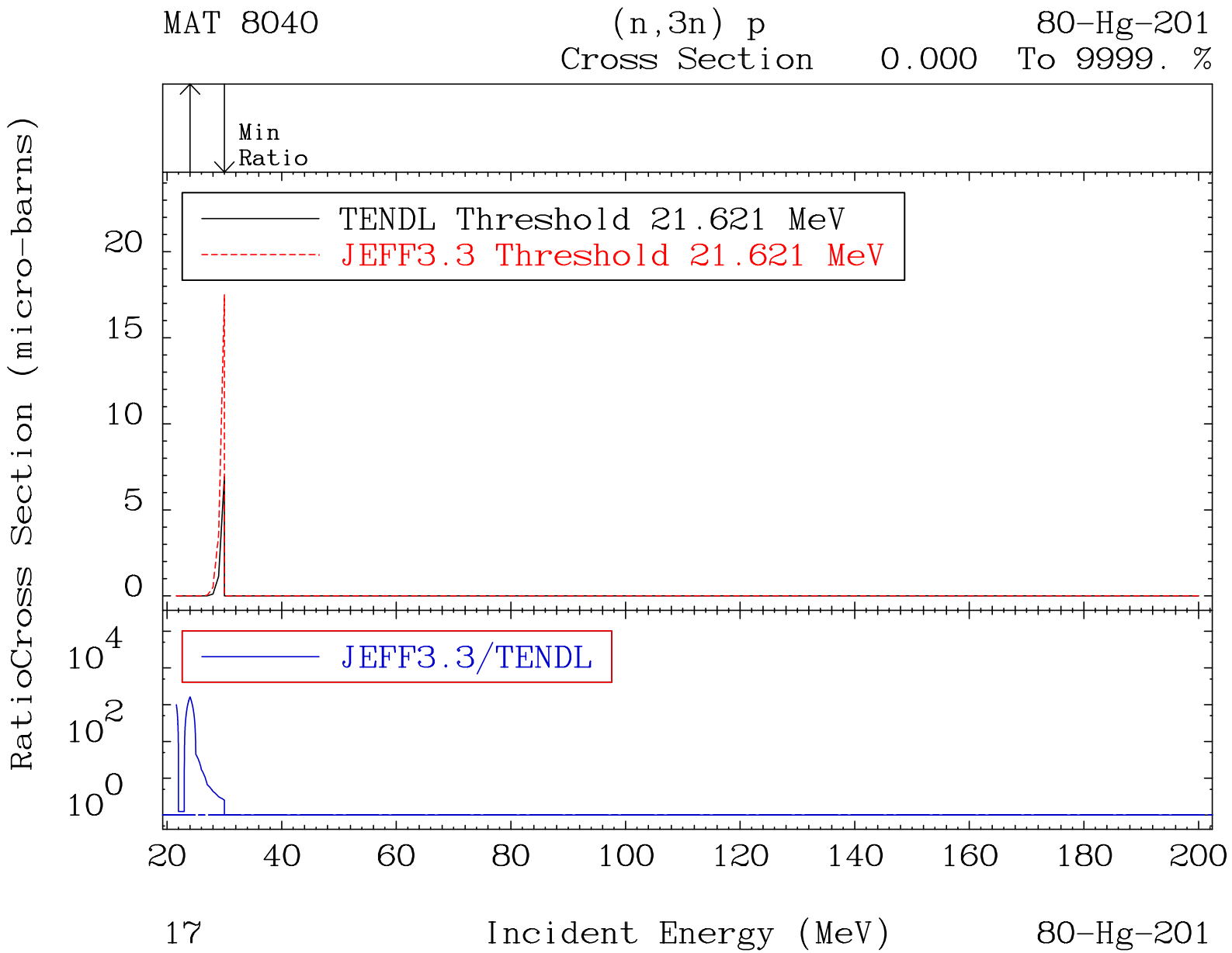

MAT 8040
(n,n') d
Cross Section
80-Hg-201
-6.571 To 69.11 %
Max Ratio
Min Ratio
TENDL Threshold 11.763 MeV
JEFF3.3 Threshold 11.763 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
6
1.2
1.6
2.0
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
80-Hg-201

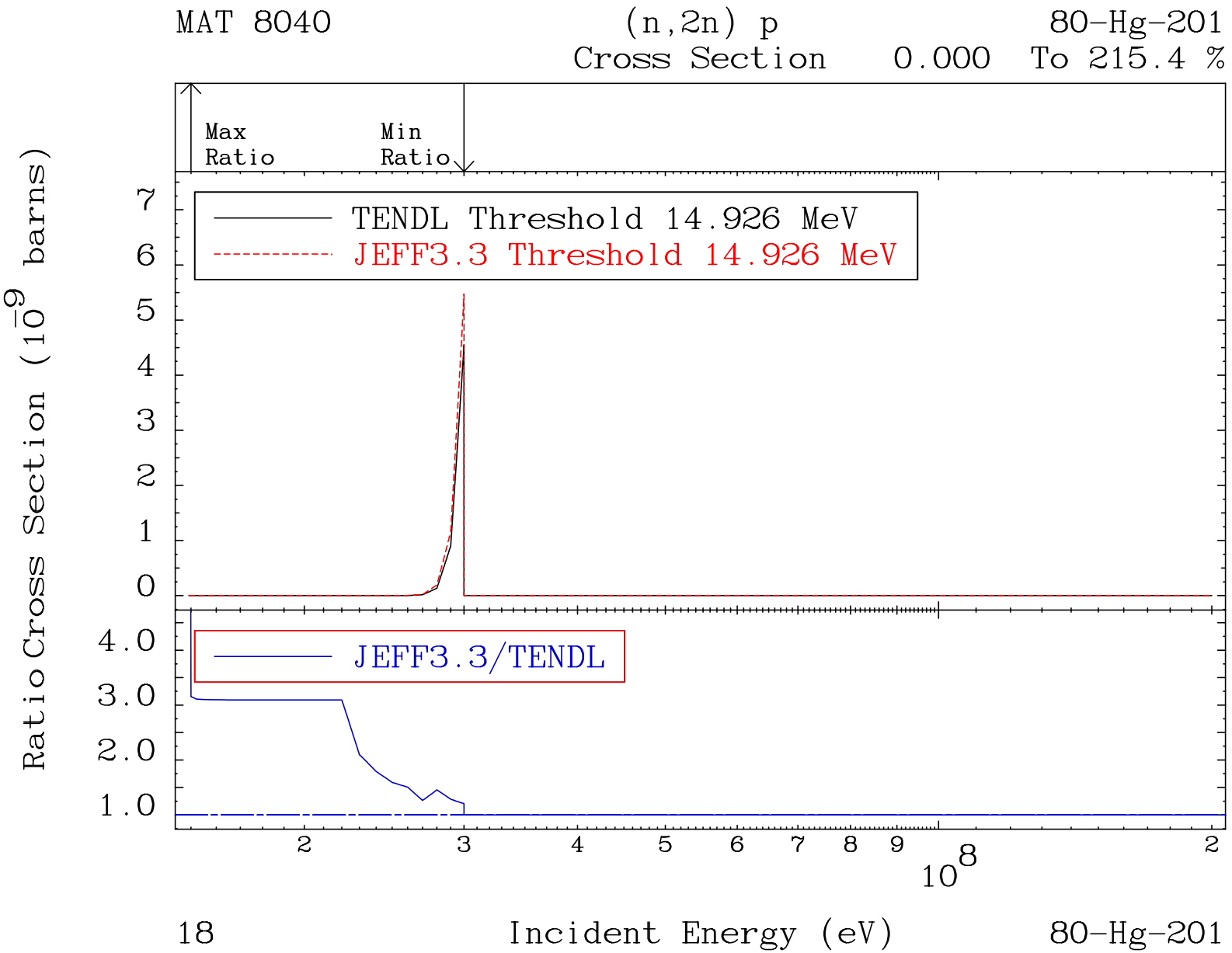

MAT 8040
(n,n') t
Cross Section
80-Hg-201
0.000 To 1680. %
Max Ratio
Min Ratio
TENDL Threshold 13.097 MeV
JEFF3.3 Threshold 13.097 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
13
80-Hg-201

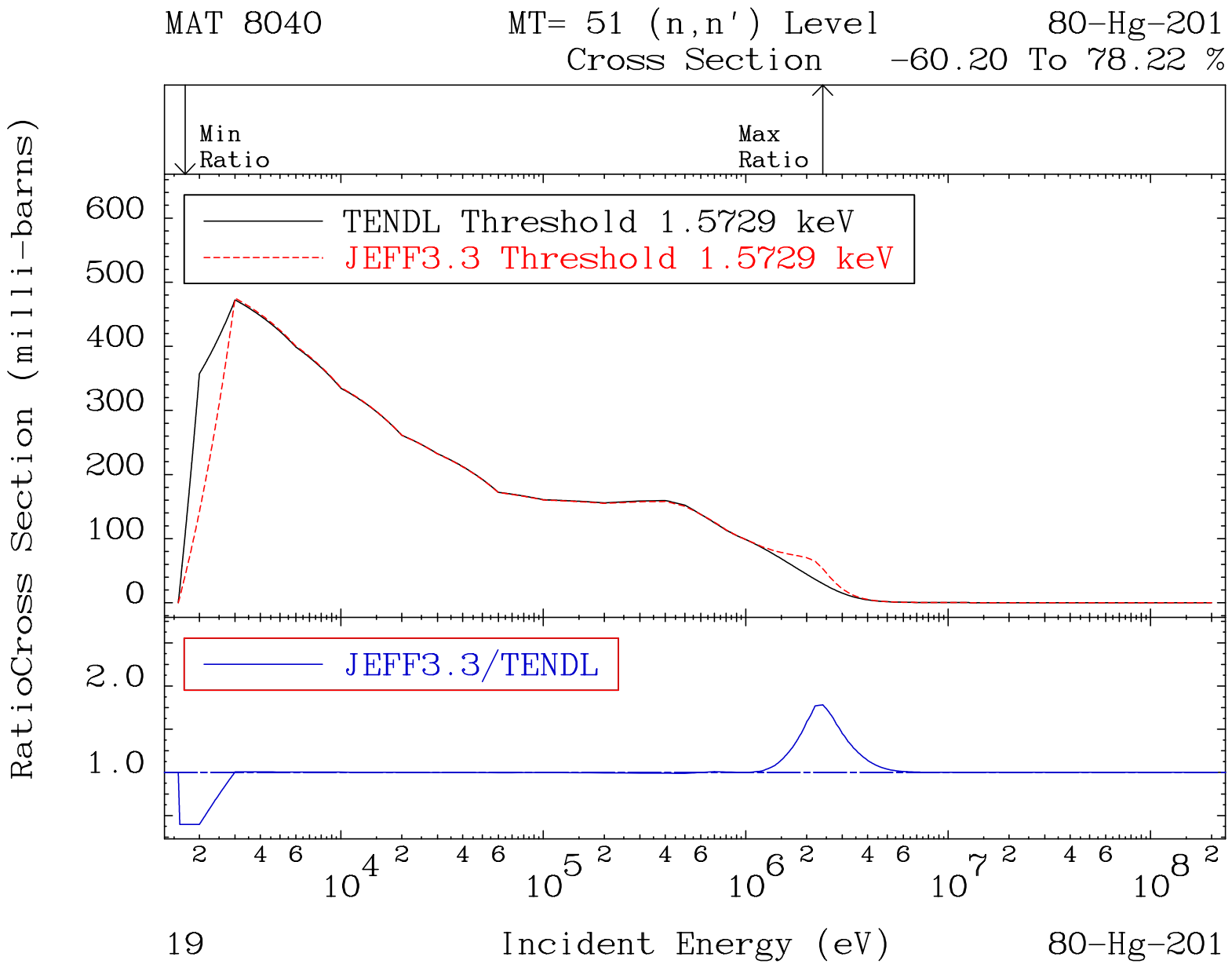

MAT 8040
(n,n') He-3
Cross Section
80-Hg-201
0.000 To 70.14 %
Max Ratio
Min Ratio
TENDL Threshold 12.753 MeV
JEFF3.3 Threshold 12.752 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
800
600
400
200
0
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
80-Hg-201

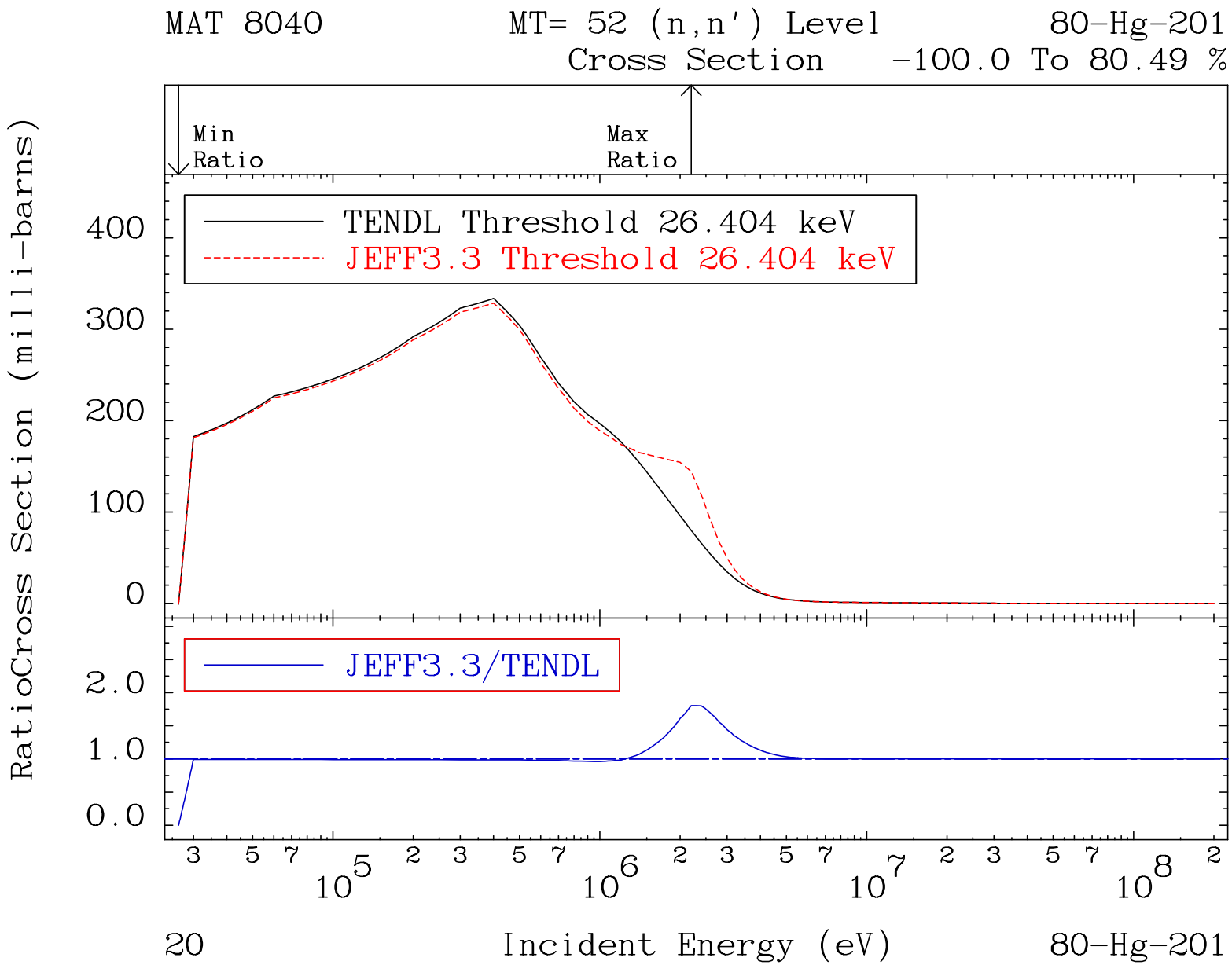

MAT 8040
(n,4n)
Cross Section
80-Hg-201
0.000 To 665.1 %
Min
Ratio
TENDL Threshold 21.027 MeV
JEFF3.3 Threshold 21.027 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
8
4
20
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
80-Hg-201

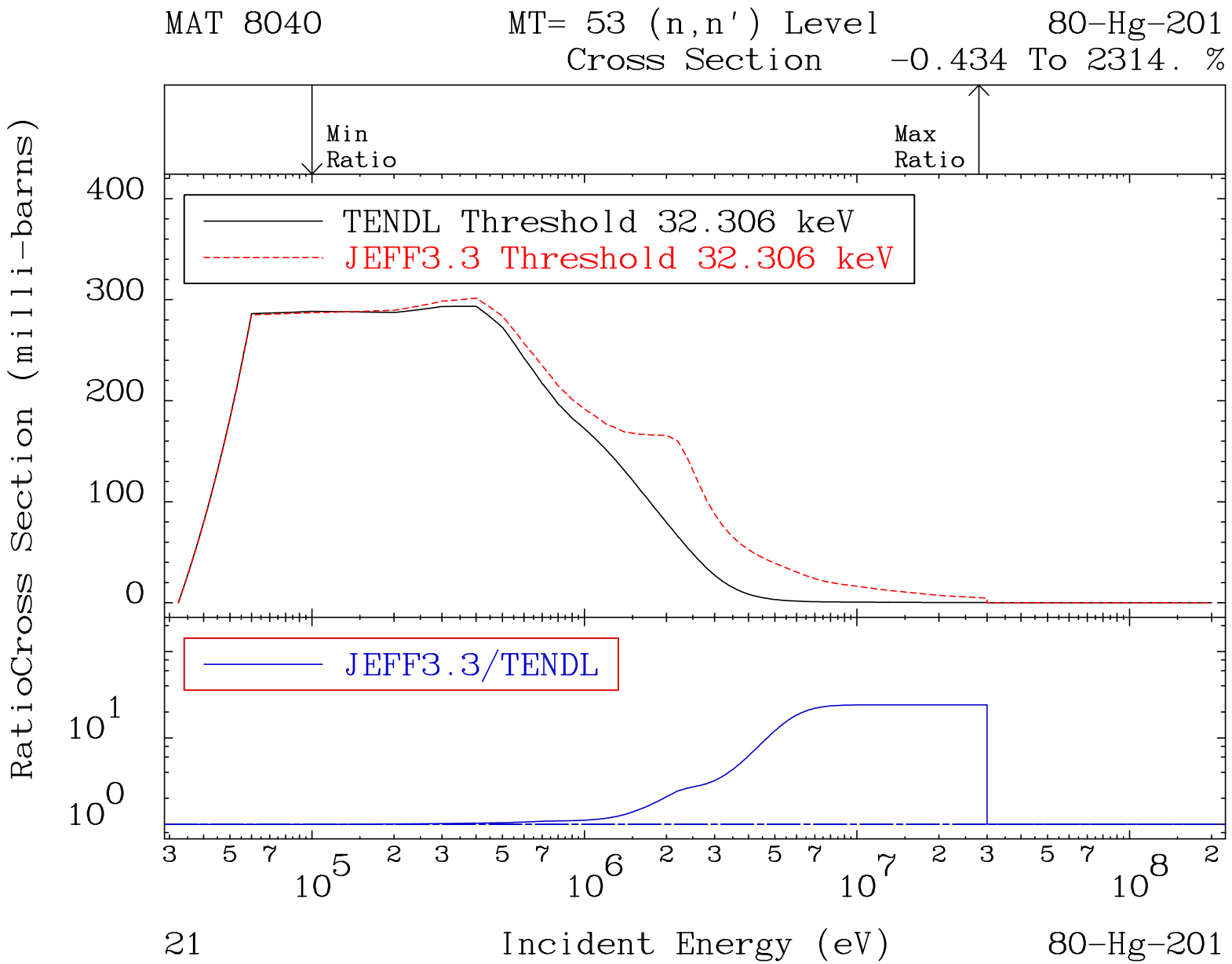

MAT 8040
(n,2n) p
Cross Section
80-Hg-201
-8.483 To 5319. %
Max Ratio
Min Ratio
TENDL Threshold 13.999 MeV
JEFF3.3 Threshold 13.999 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
16
80-Hg-201

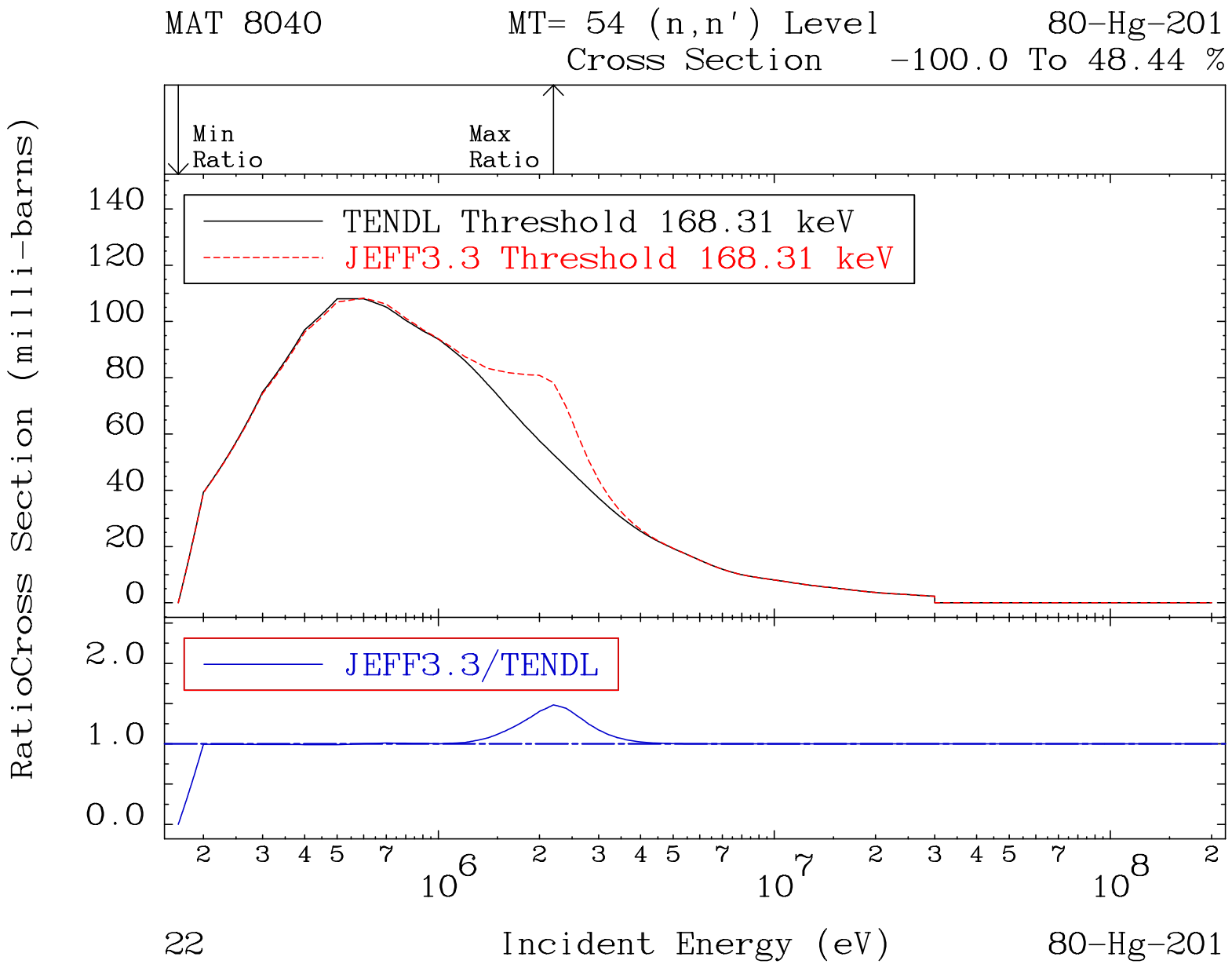

MAT 8040
(n,3n) p
Cross Section
80-Hg-201
0.000 To 9999. %
Min
Ratio
TENDL Threshold 21.621 MeV
JEFF3.3 Threshold 21.621 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
20
15
10
5
0
10^4
10^2
10^0
20
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
80-Hg-201

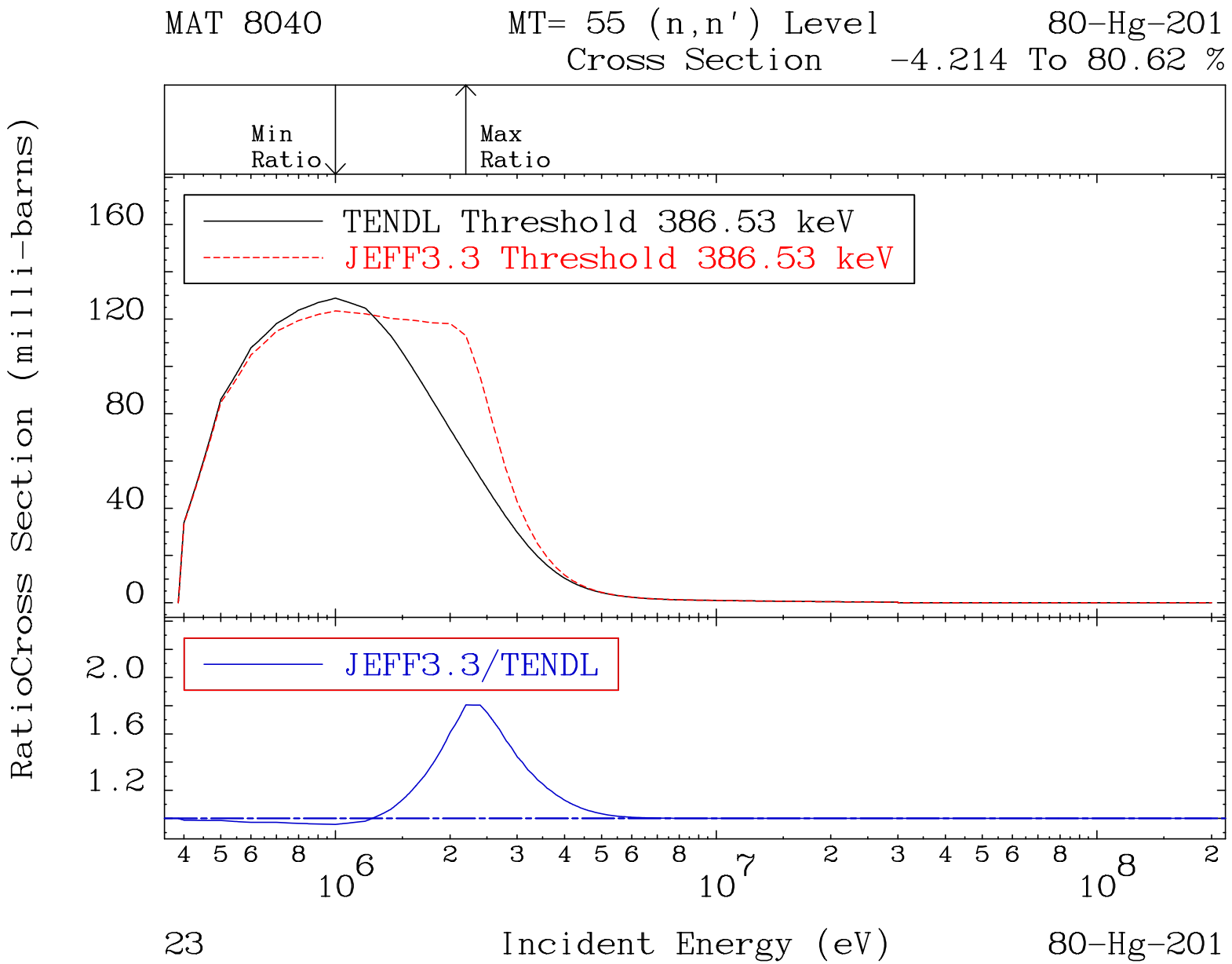

MAT 8040
(n,2n) p
Cross Section
80-Hg-201
0.000 To 215.4 %
Max Ratio
Min Ratio
TENDL Threshold 14.926 MeV
JEFF3.3 Threshold 14.926 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
10^8
18
80-Hg-201

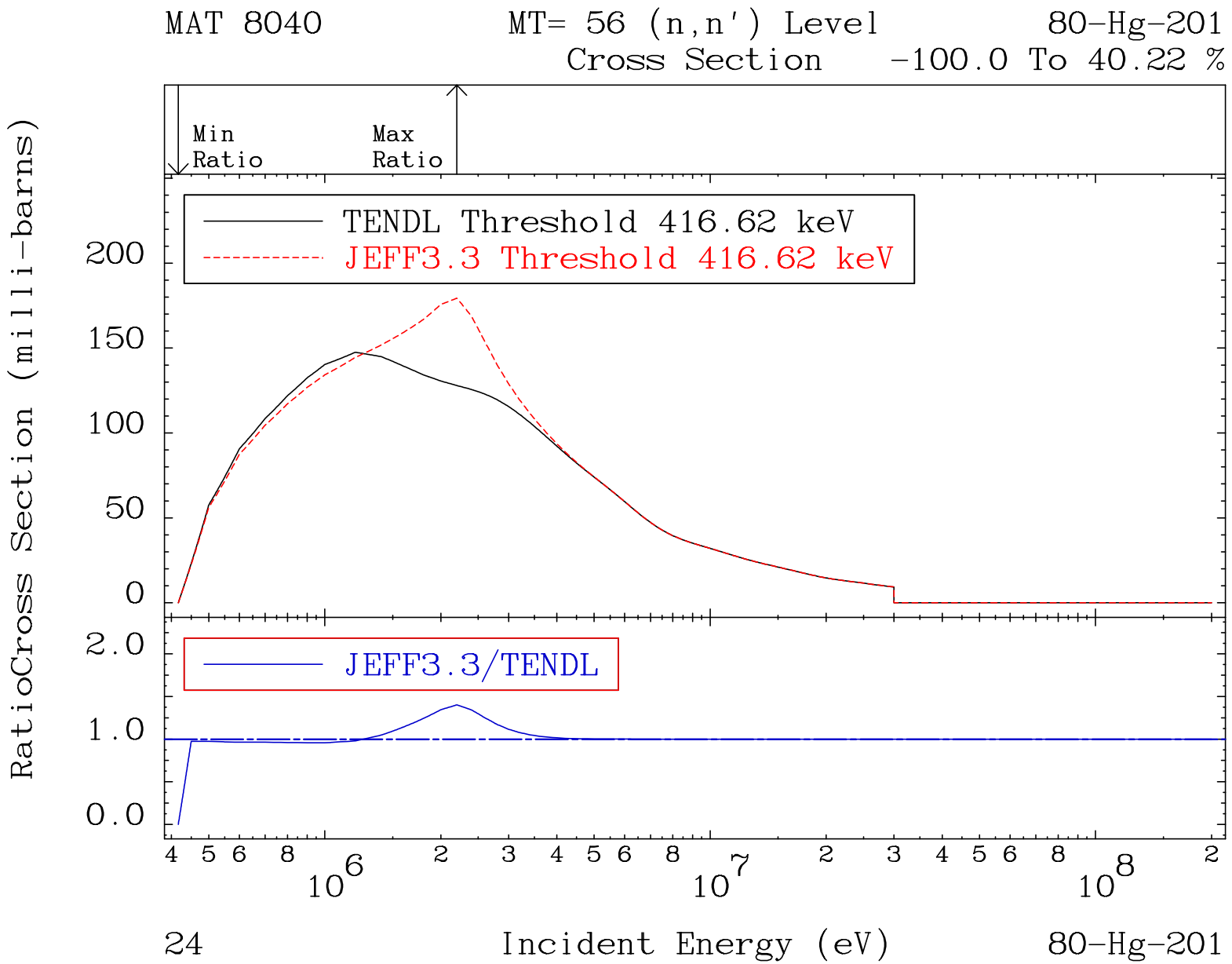

MAT 8040
MT= 51 (n,n') Level
Cross Section
80-Hg-201
-60.20 To 78.22 %
Min Ratio
Max Ratio
TENDL Threshold 1.5729 keV
JEFF3.3 Threshold 1.5729 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
2.0
1.0
2 4 6 10^4 2 4 6 10^5 2 4 6 10^6 2 4 6 10^7 2 4 6 10^8 2
19
Incident Energy (eV)
80-Hg-201

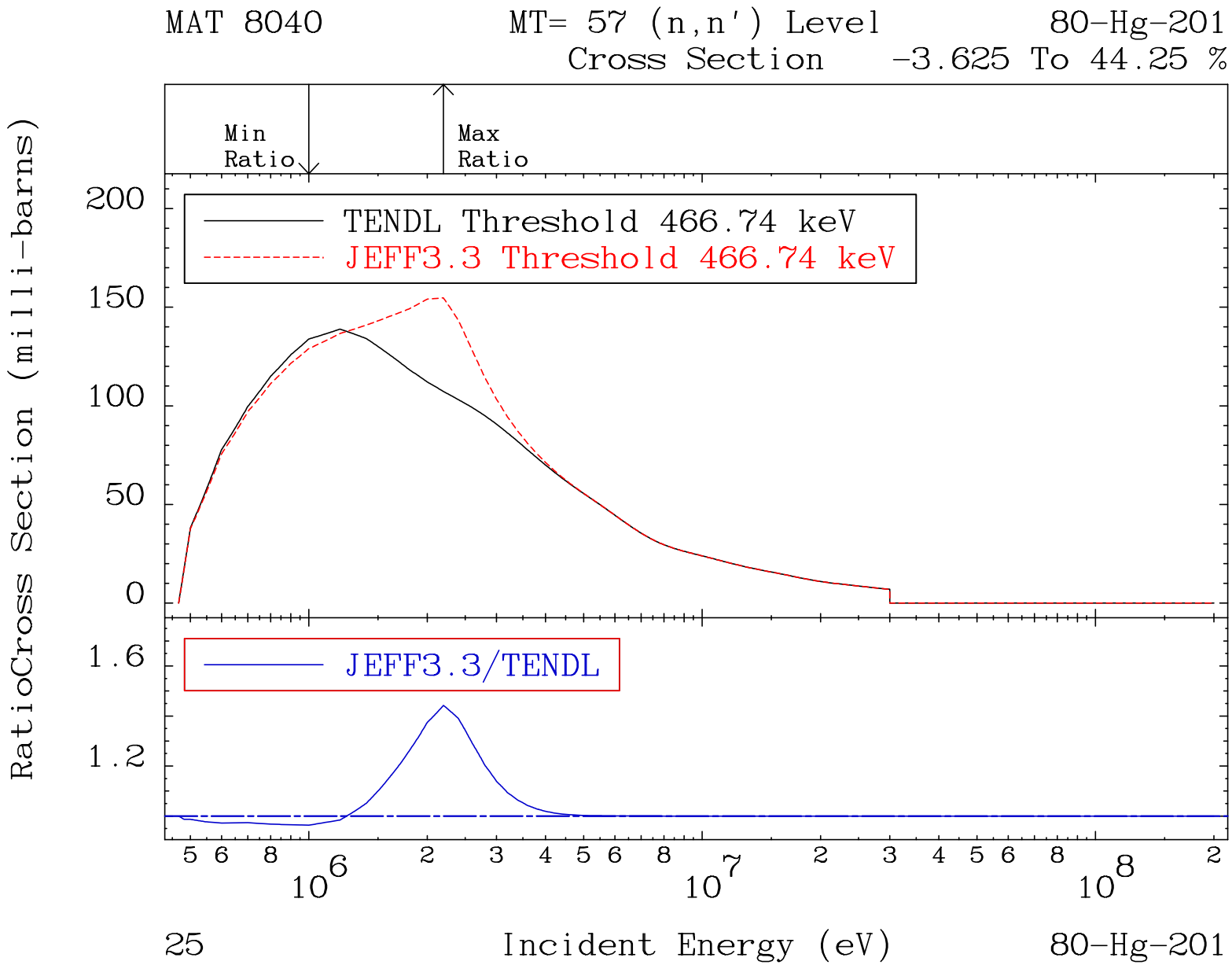

MAT 8040
MT= 52 (n,n') Level
80-Hg-201
Cross Section
-100.0 To 80.49 %
Min Ratio
Max Ratio
TENDL Threshold 26.404 keV
JEFF3.3 Threshold 26.404 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
2.0
1.0
0.0
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
20
Incident Energy (eV)
80-Hg-201

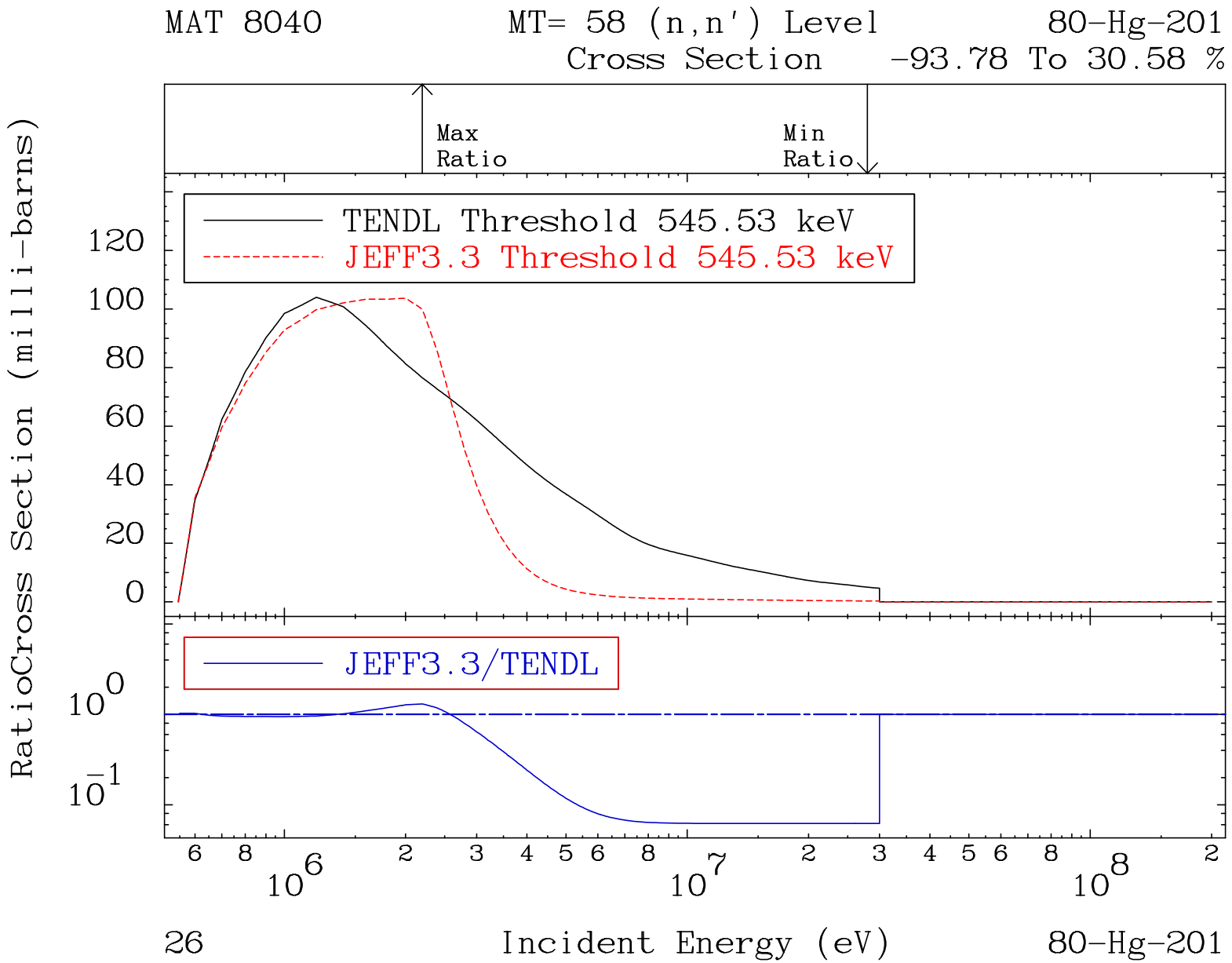

MAT 8040
MT= 53 (n,n') Level
Cross Section
80-Hg-201
-0.434 To 2314. %
Min Ratio
Max Ratio
TENDL Threshold 32.306 keV
JEFF3.3 Threshold 32.306 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
10^1
10^0
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
21
Incident Energy (eV)
80-Hg-201

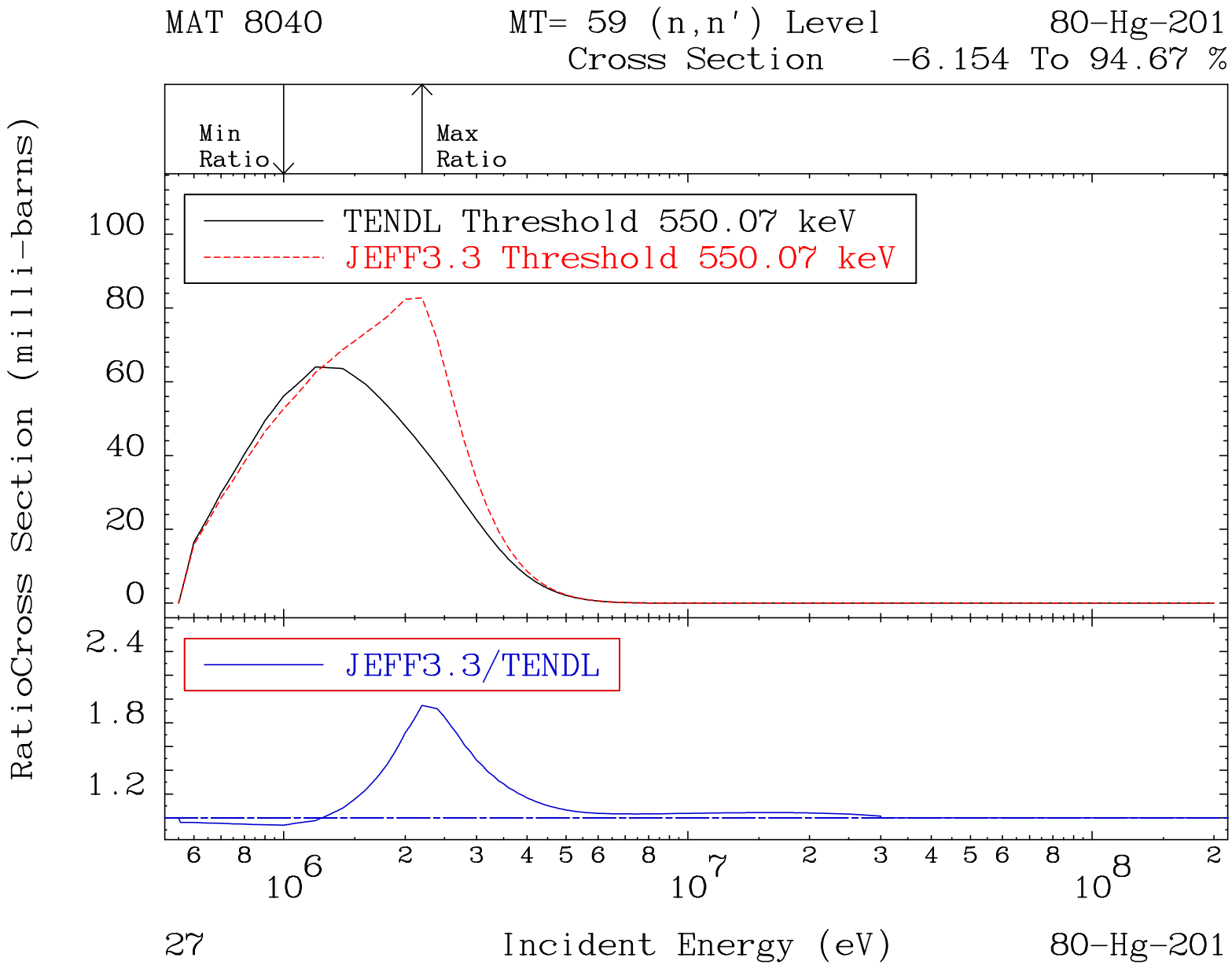

MAT 8040
MT= 54 (n,n') Level
80-Hg-201
Cross Section -100.0 To 48.44 %
Min Ratio
Max Ratio
TENDL Threshold 168.31 keV
JEFF3.3 Threshold 168.31 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
22
Incident Energy (eV)
80-Hg-201

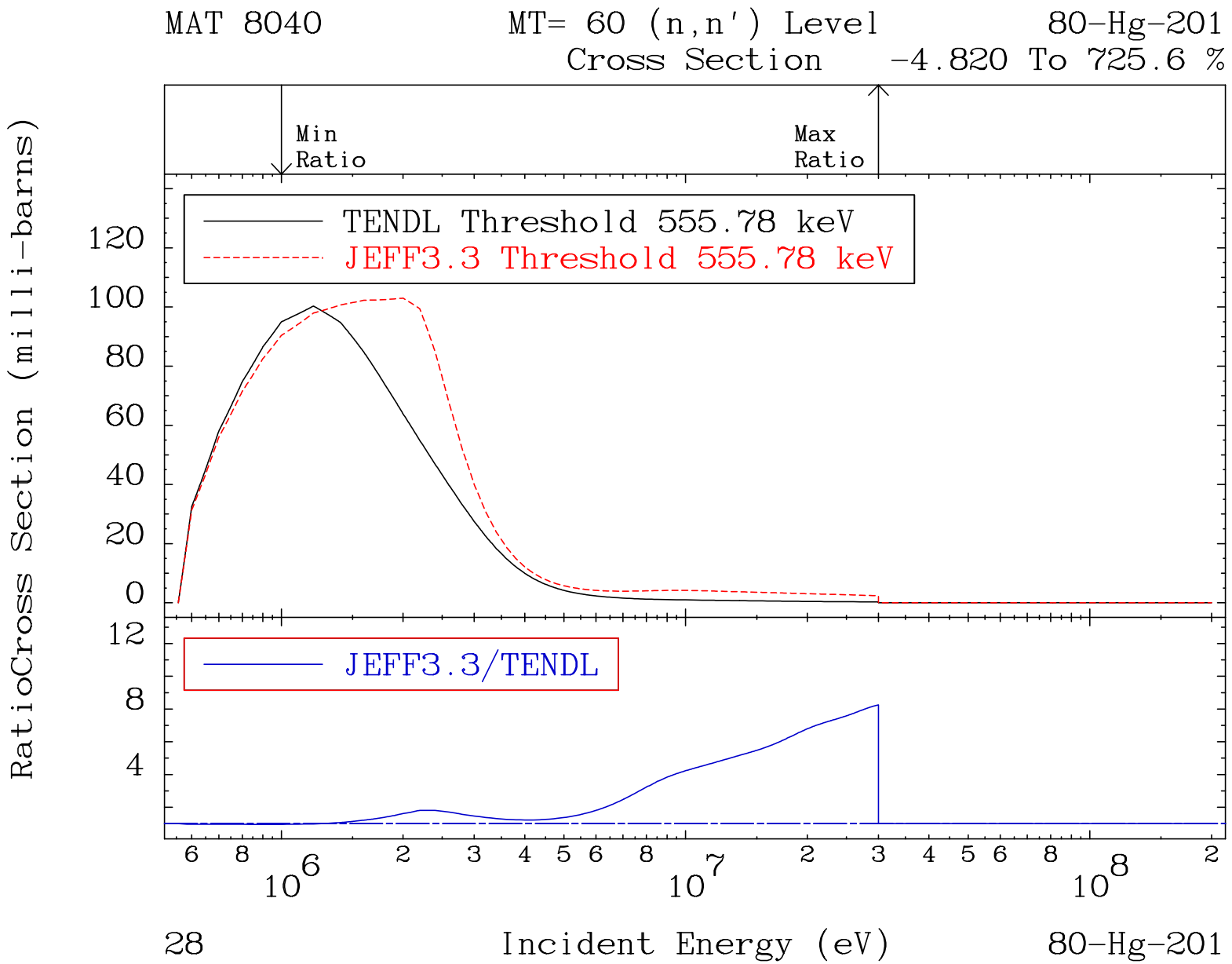

MAT 8040
MT= 55 (n,n') Level
80-Hg-201
Cross Section -4.214 To 80.62 %
Min Ratio
Max Ratio
TENDL Threshold 386.53 keV
JEFF3.3 Threshold 386.53 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.6
1.2
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
23
Incident Energy (eV)
80-Hg-201

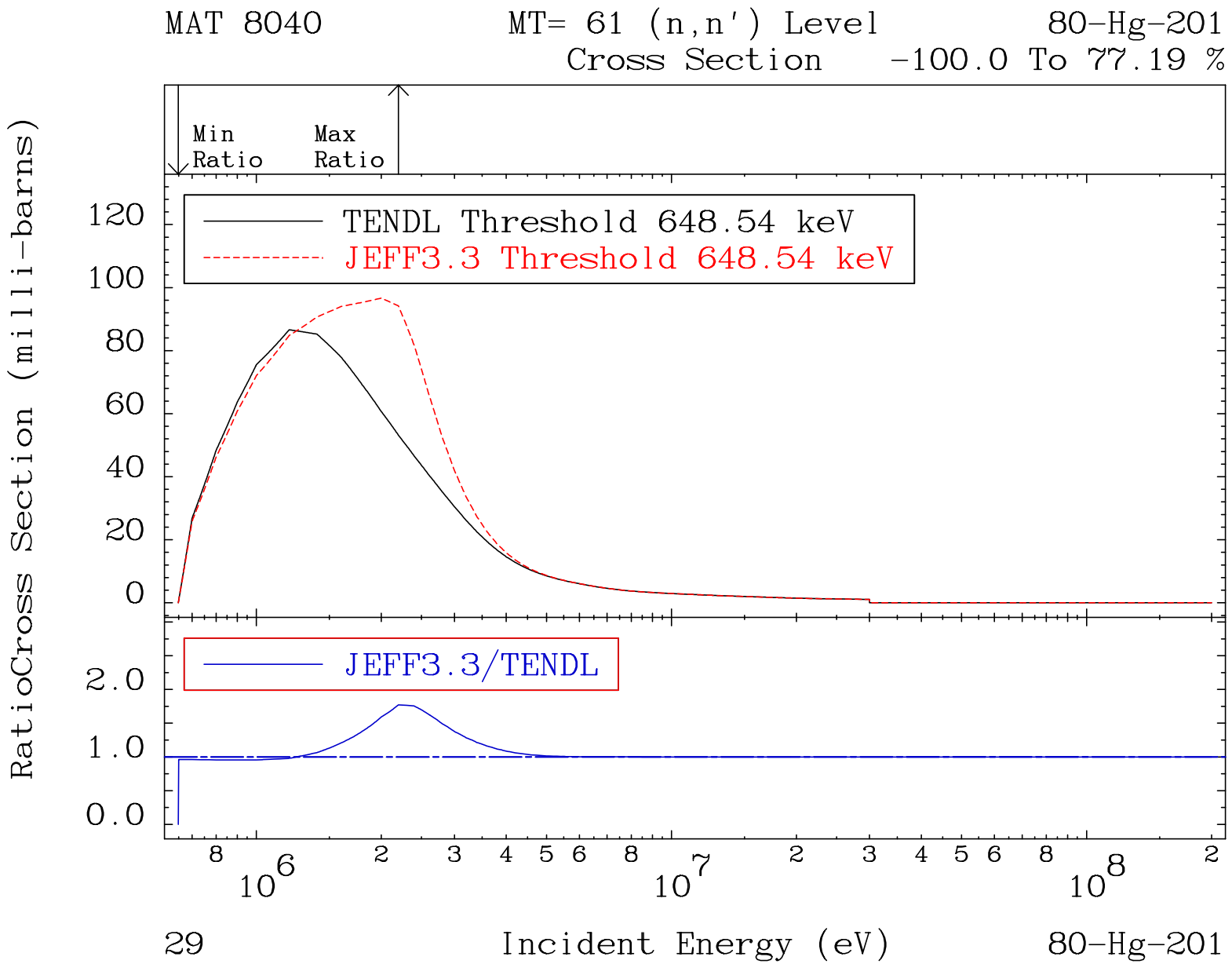

MAT 8040
MT= 56 (n,n') Level
80-Hg-201
Cross Section -100.0 To 40.22 %
Min Ratio
Max Ratio
TENDL Threshold 416.62 keV
JEFF3.3 Threshold 416.62 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
24
Incident Energy (eV)
80-Hg-201

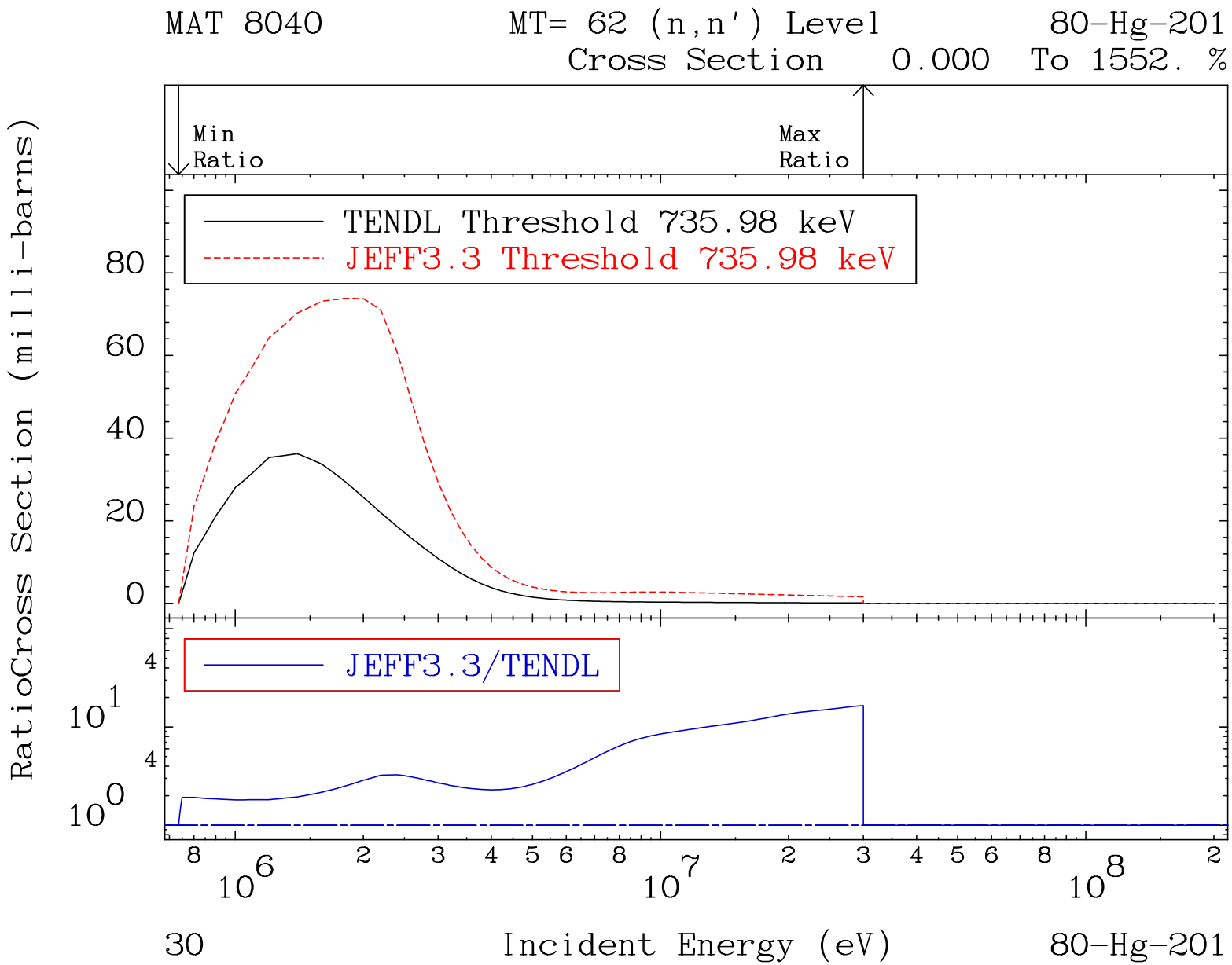

MAT 8040
MT= 57 (n,n') Level
80-Hg-201
Cross Section
-3.625 To 44.25 %
Min Ratio
Max Ratio
TENDL Threshold 466.74 keV
JEFF3.3 Threshold 466.74 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.6
1.2
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
25
Incident Energy (eV)
80-Hg-201

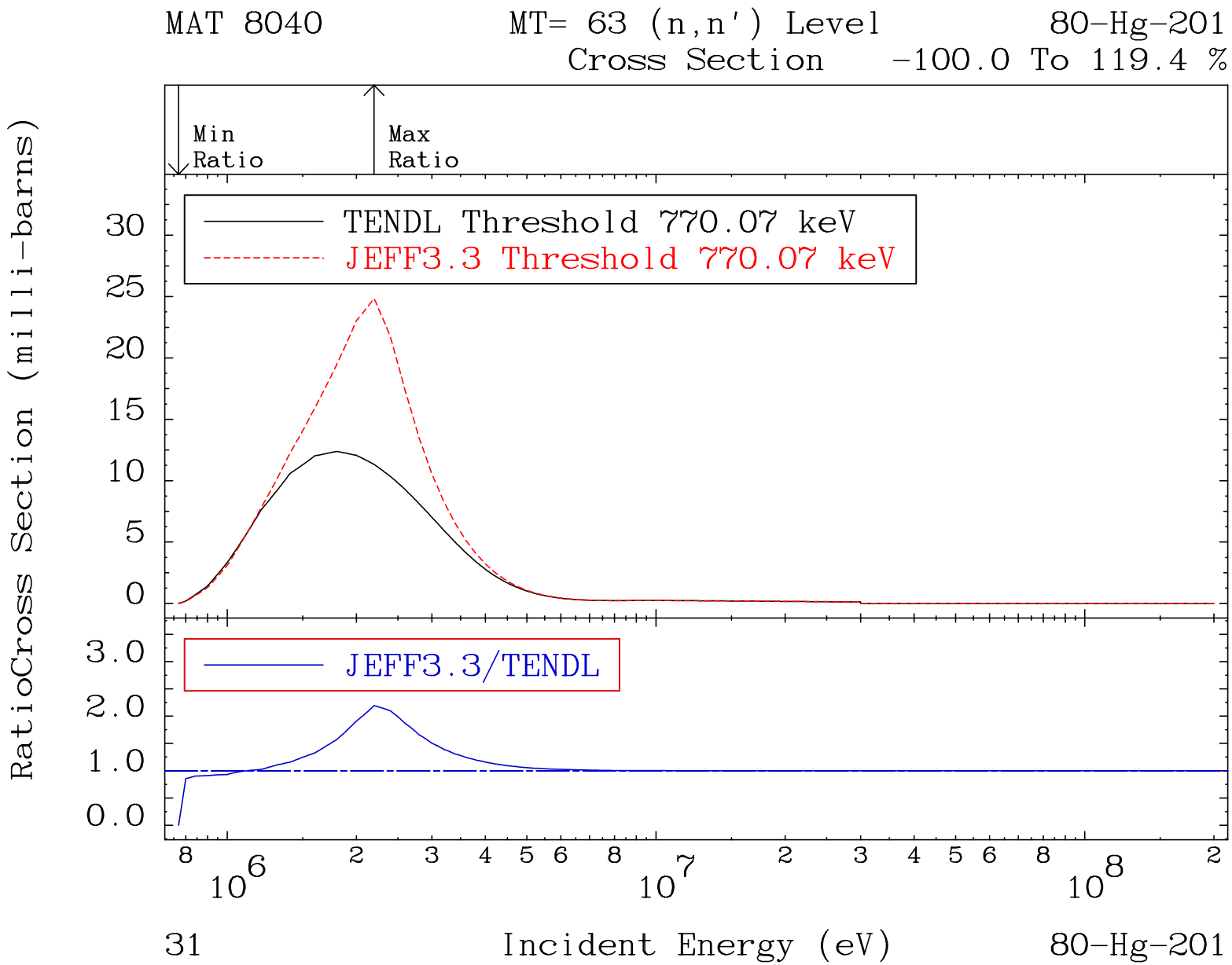

MAT 8040
MT= 58 (n,n') Level
80-Hg-201
Cross Section
-93.78 To 30.58 %
Max Ratio
Min Ratio
TENDL Threshold 545.53 keV
JEFF3.3 Threshold 545.53 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^{0}
10^{-1}
6 8 10^{6} 2 3 4 5 6 8 10^{7} 2 3 4 5 6 8 10^{8} 2
26
Incident Energy (eV)
80-Hg-201

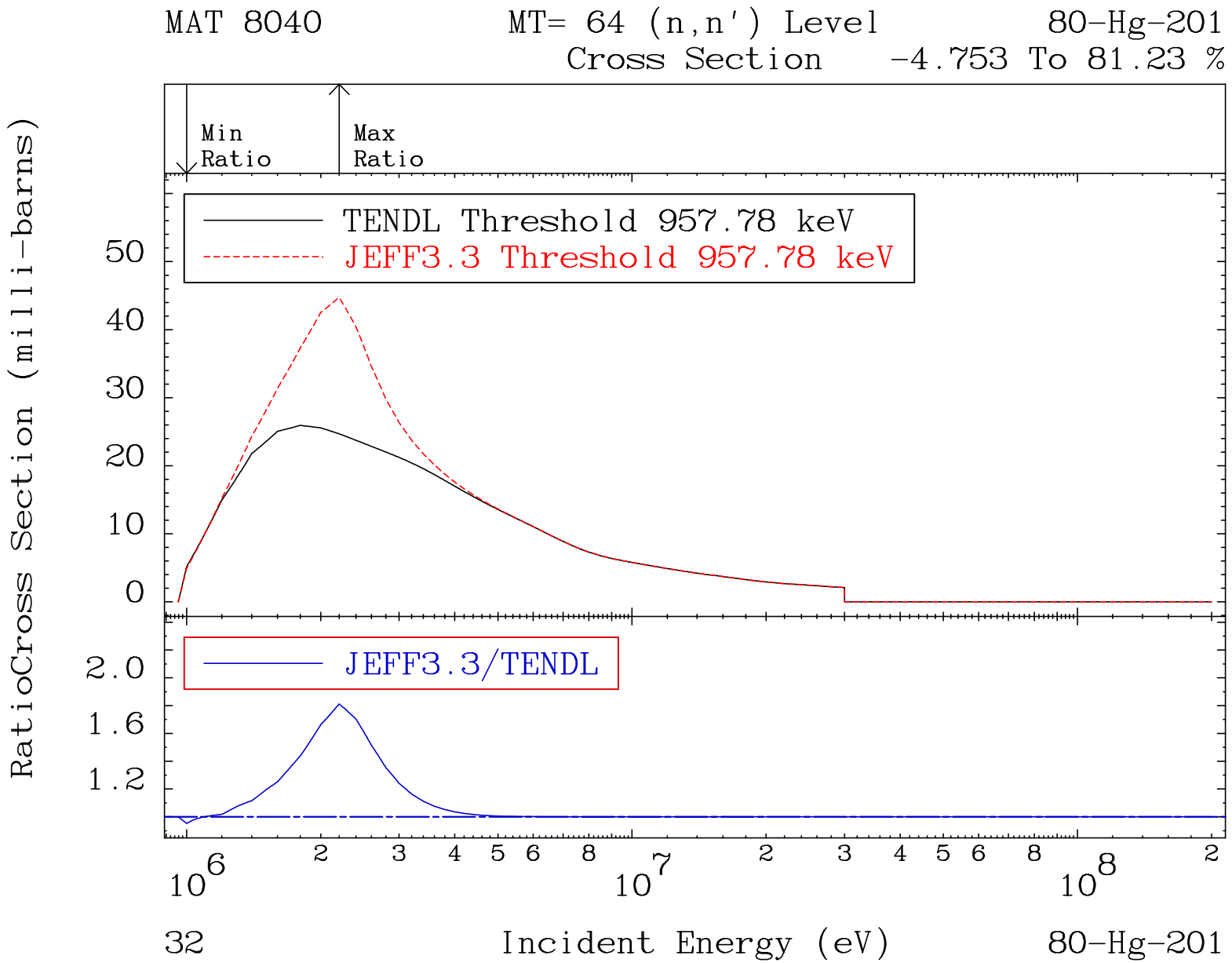

MAT 8040
MT= 59 (n,n') Level
Cross Section
80-Hg-201
-6.154 To 94.67 %
Min Ratio
Max Ratio
TENDL Threshold 550.07 keV
JEFF3.3 Threshold 550.07 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.4
1.8
1.2
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
27
80-Hg-201

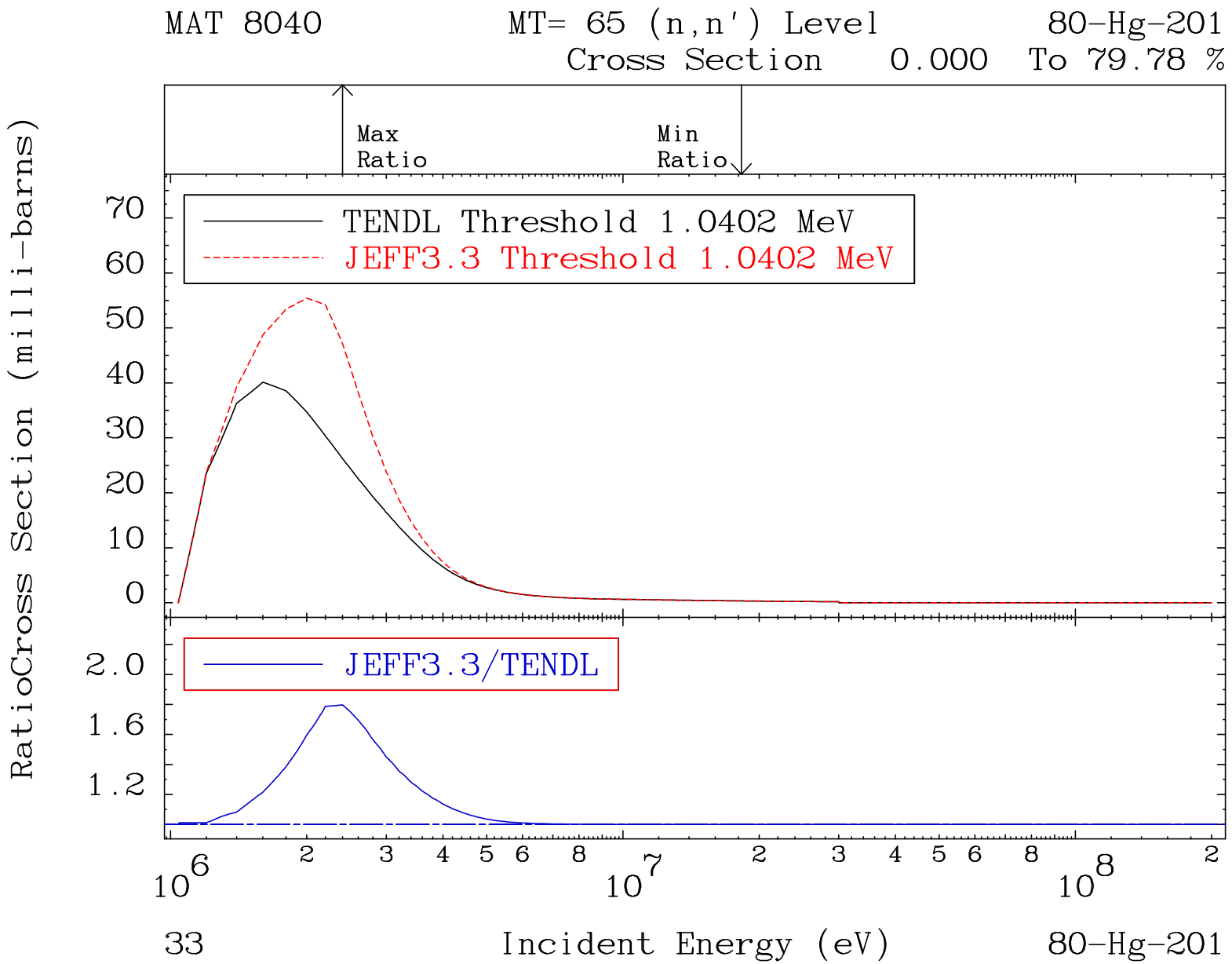

MAT 8040
MT= 60 (n,n') Level
80-Hg-201
Cross Section
-4.820 To 725.6 %
Min
Ratio
Max
Ratio
TENDL Threshold 555.78 keV
JEFF3.3 Threshold 555.78 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
12
8
4
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
28
Incident Energy (eV)
80-Hg-201

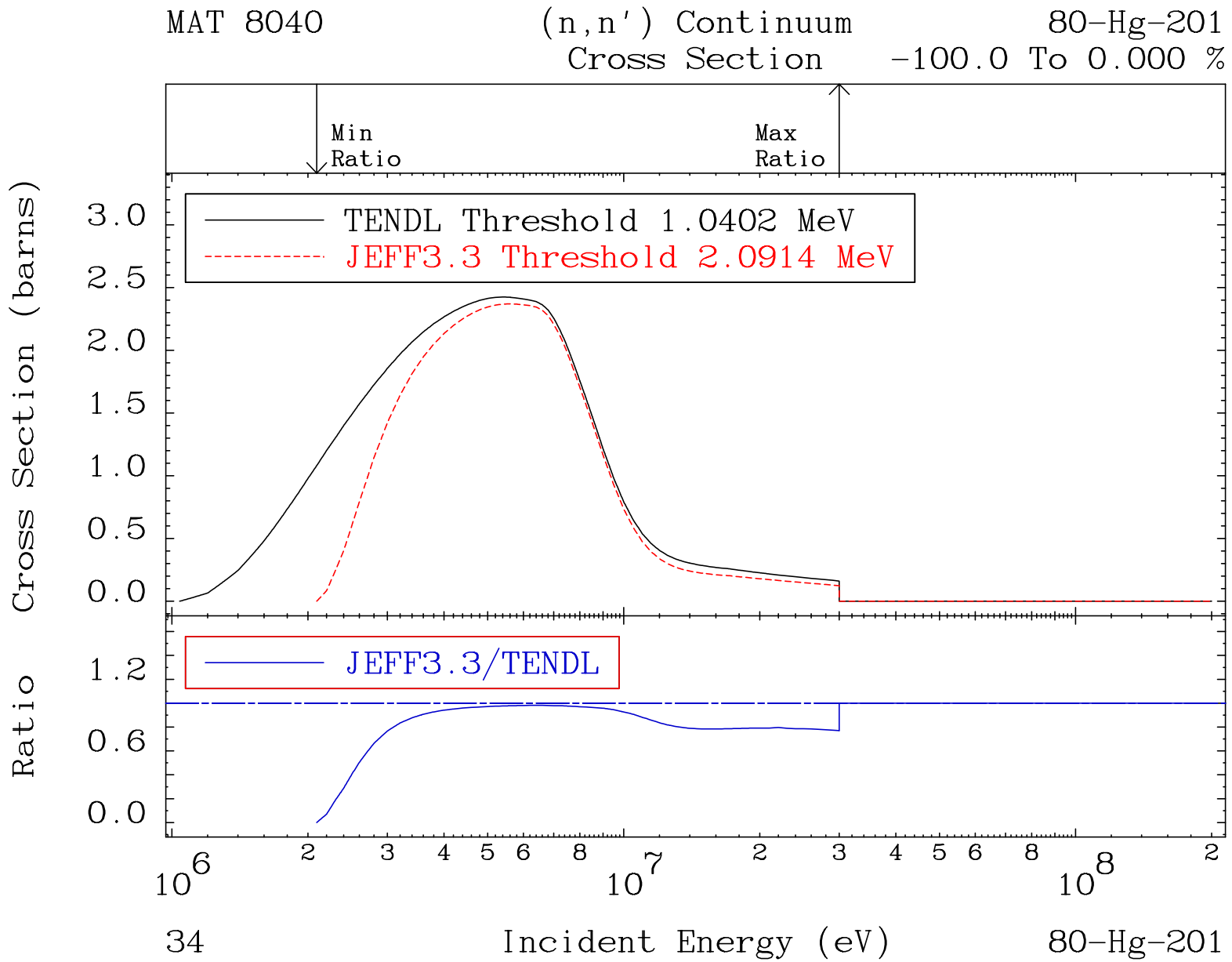

MAT 8040
MT= 61 (n,n') Level
80-Hg-201
Cross Section -100.0 To 77.19 %
Min Ratio
Max Ratio
TENDL Threshold 648.54 keV
JEFF3.3 Threshold 648.54 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
29
Incident Energy (eV)
80-Hg-201

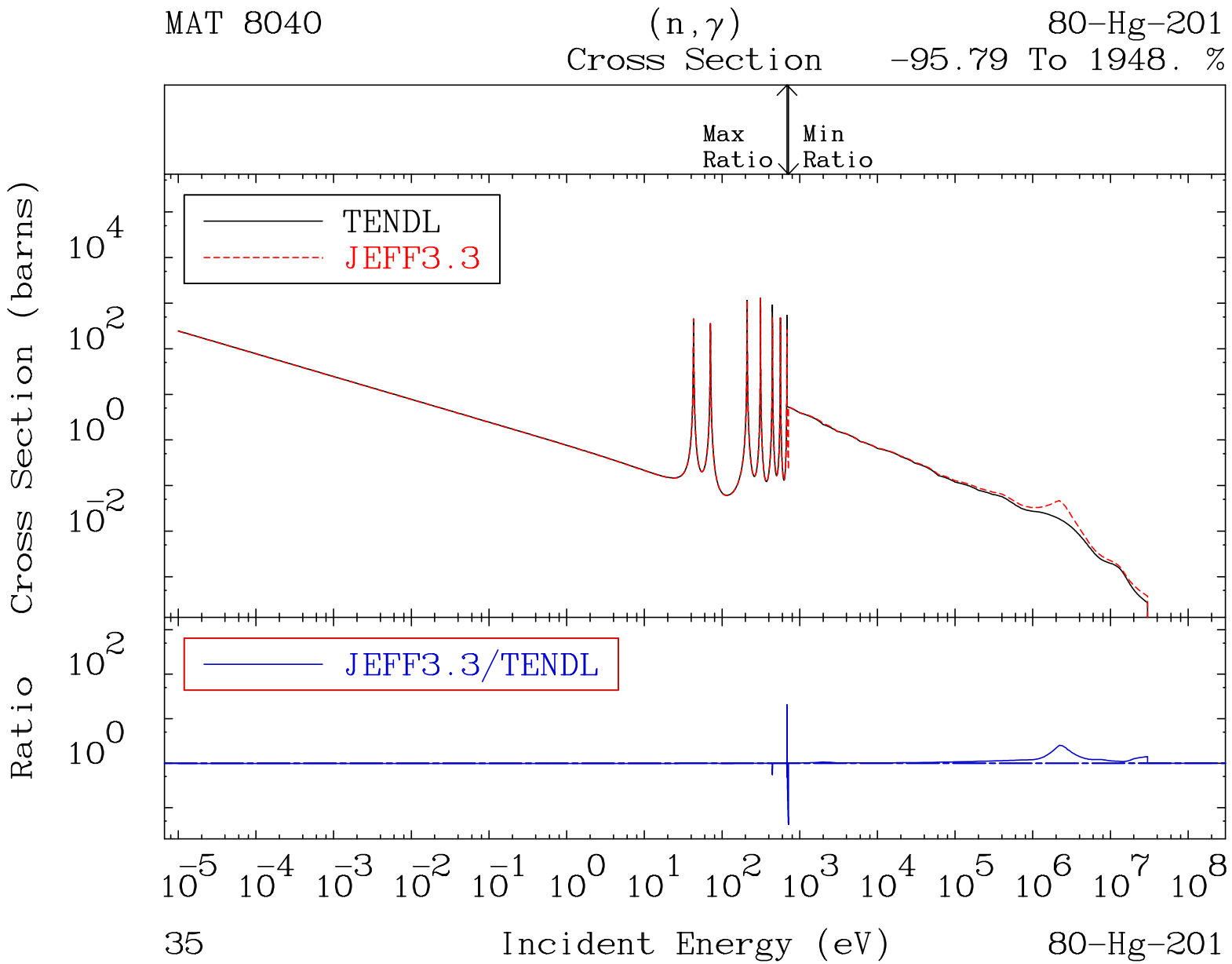

MAT 8040
MT= 62 (n,n') Level
80-Hg-201
Cross Section 0.000 To 1552. %
Min Ratio
Max Ratio
TENDL Threshold 735.98 keV
JEFF3.3 Threshold 735.98 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
30
80-Hg-201

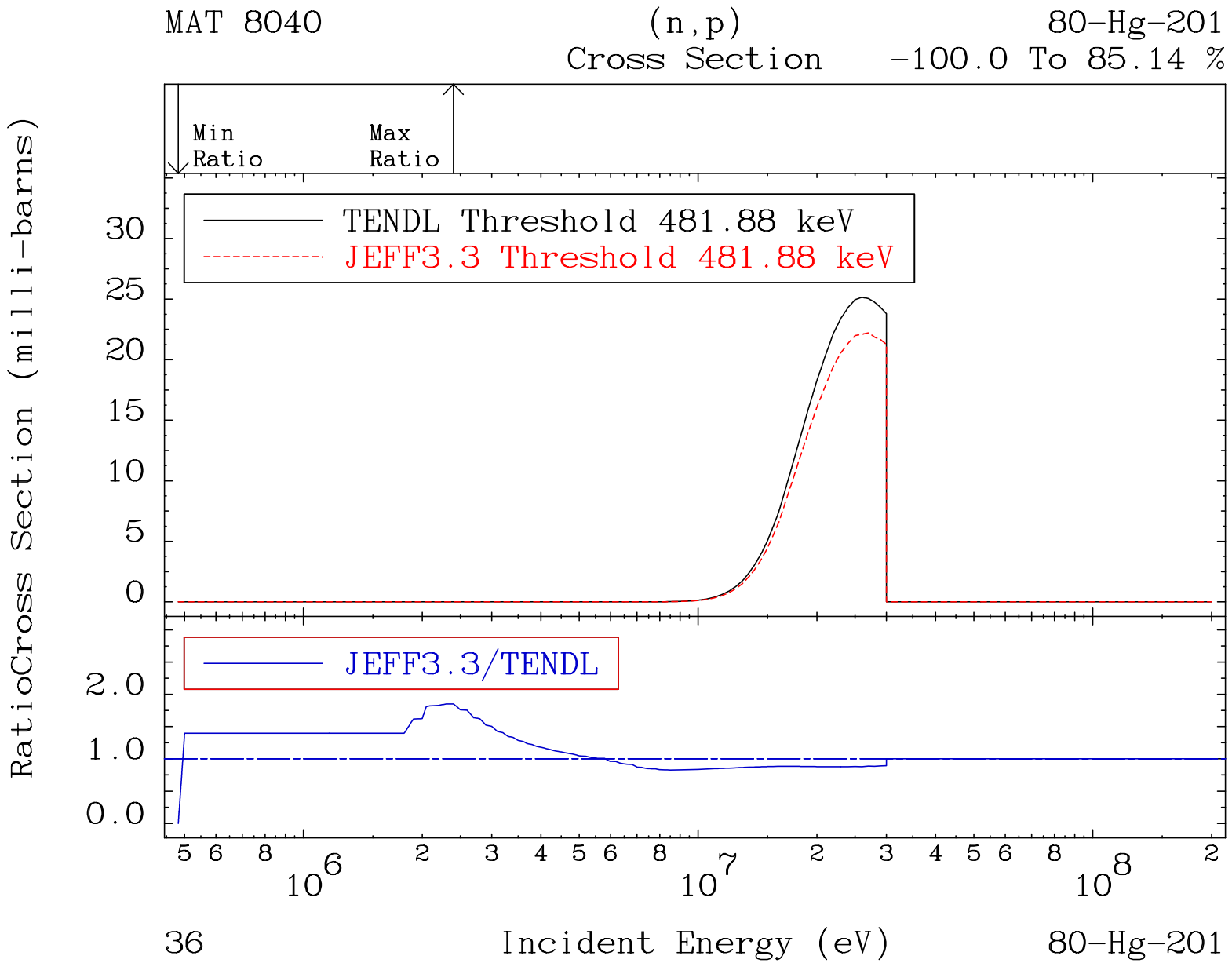

MAT 8040
MT= 63 (n,n') Level
80-Hg-201
Cross Section -100.0 To 119.4 %
Min Ratio
Max Ratio
TENDL Threshold 770.07 keV
JEFF3.3 Threshold 770.07 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
3.0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
31
Incident Energy (eV)
80-Hg-201

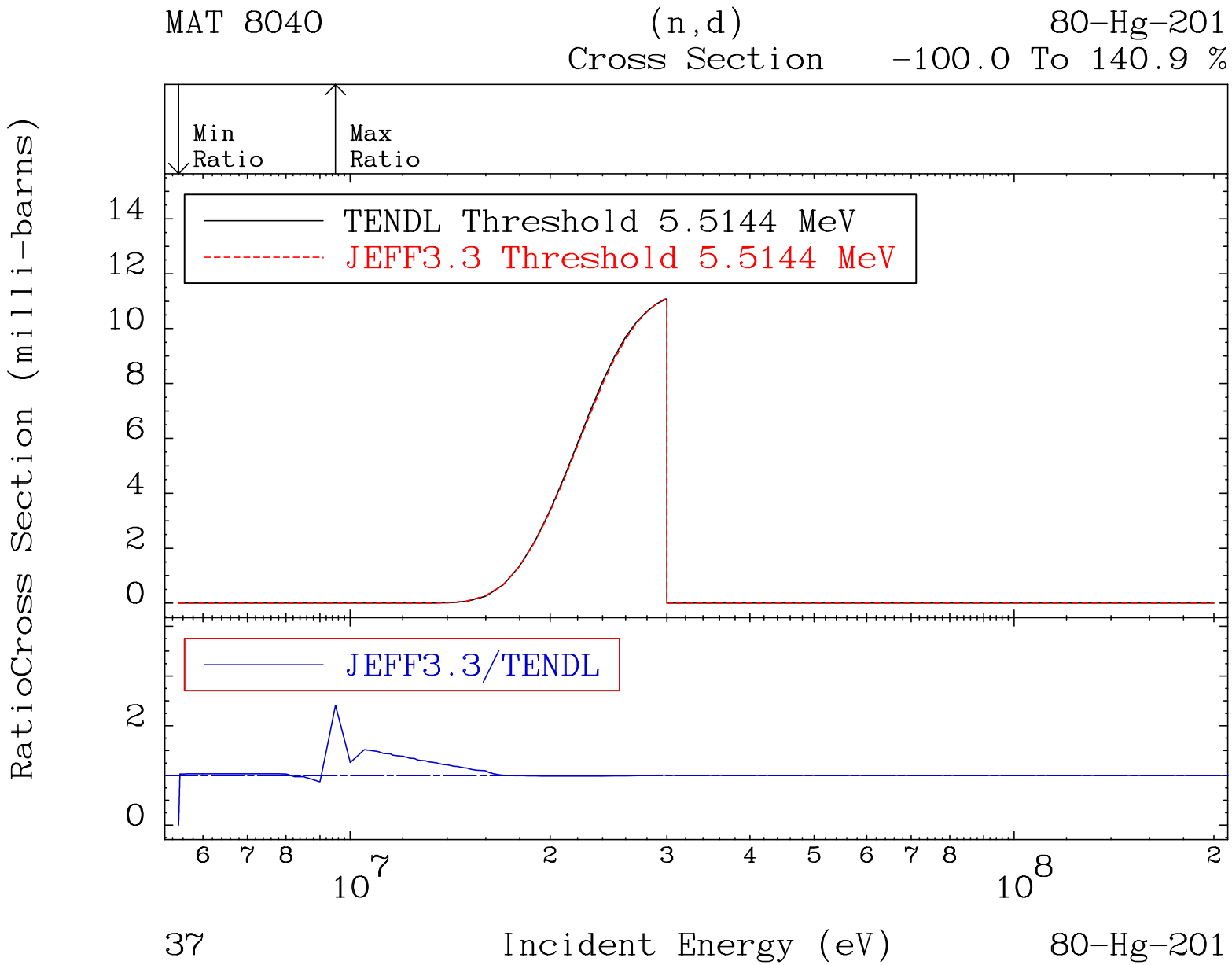

MAT 8040
MT= 64 (n,n') Level
80-Hg-201
Cross Section
-4.753 To 81.23 %
Min Ratio
Max Ratio
TENDL Threshold 957.78 keV
JEFF3.3 Threshold 957.78 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.6
1.2
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
32
Incident Energy (eV)
80-Hg-201

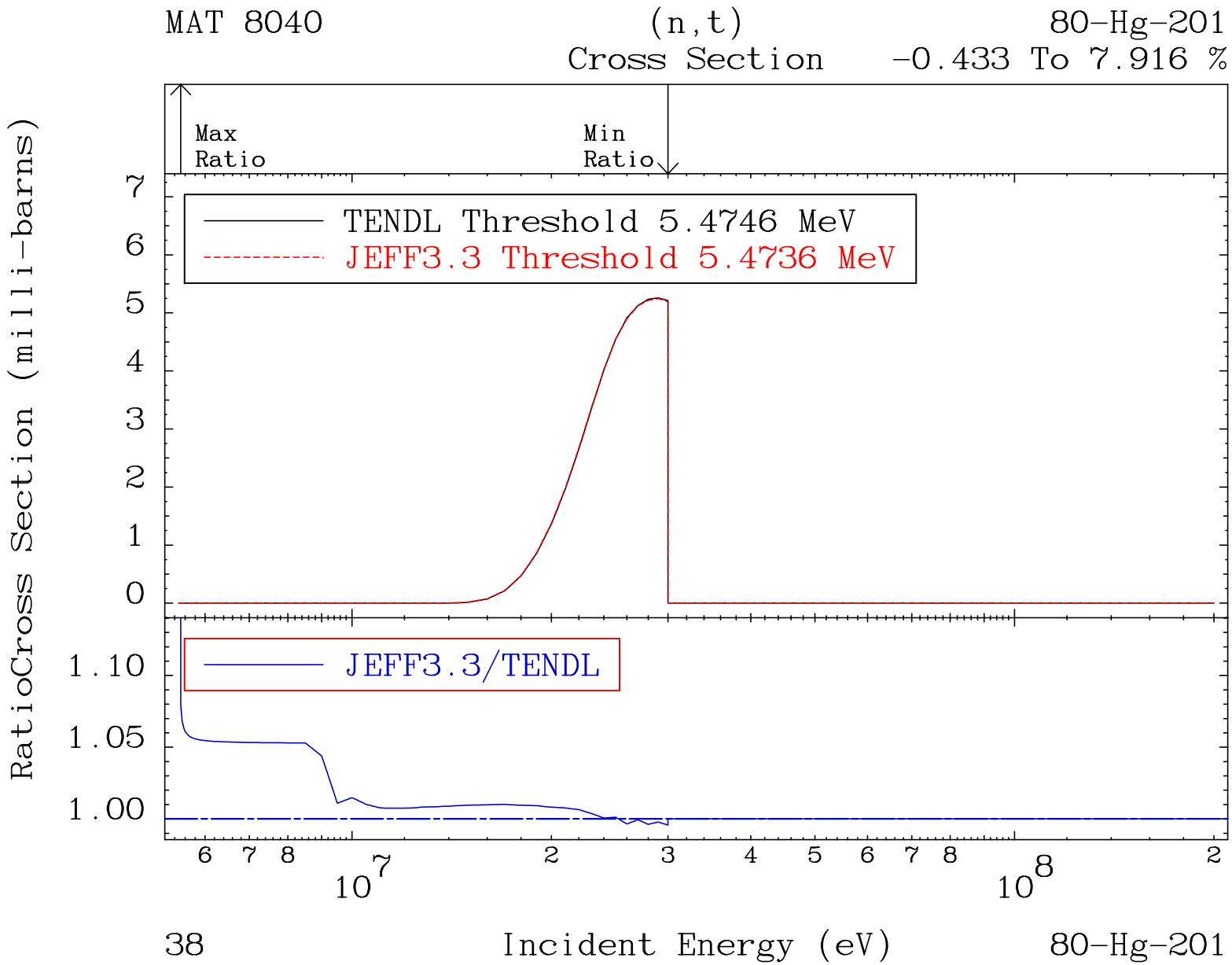

MAT 8040
MT= 65 (n,n') Level
80-Hg-201
Cross Section 0.000 To 79.78 %
Max Ratio
Min Ratio
TENDL Threshold 1.0402 MeV
JEFF3.3 Threshold 1.0402 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
2.0
1.6
1.2
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
33
Incident Energy (eV)
80-Hg-201

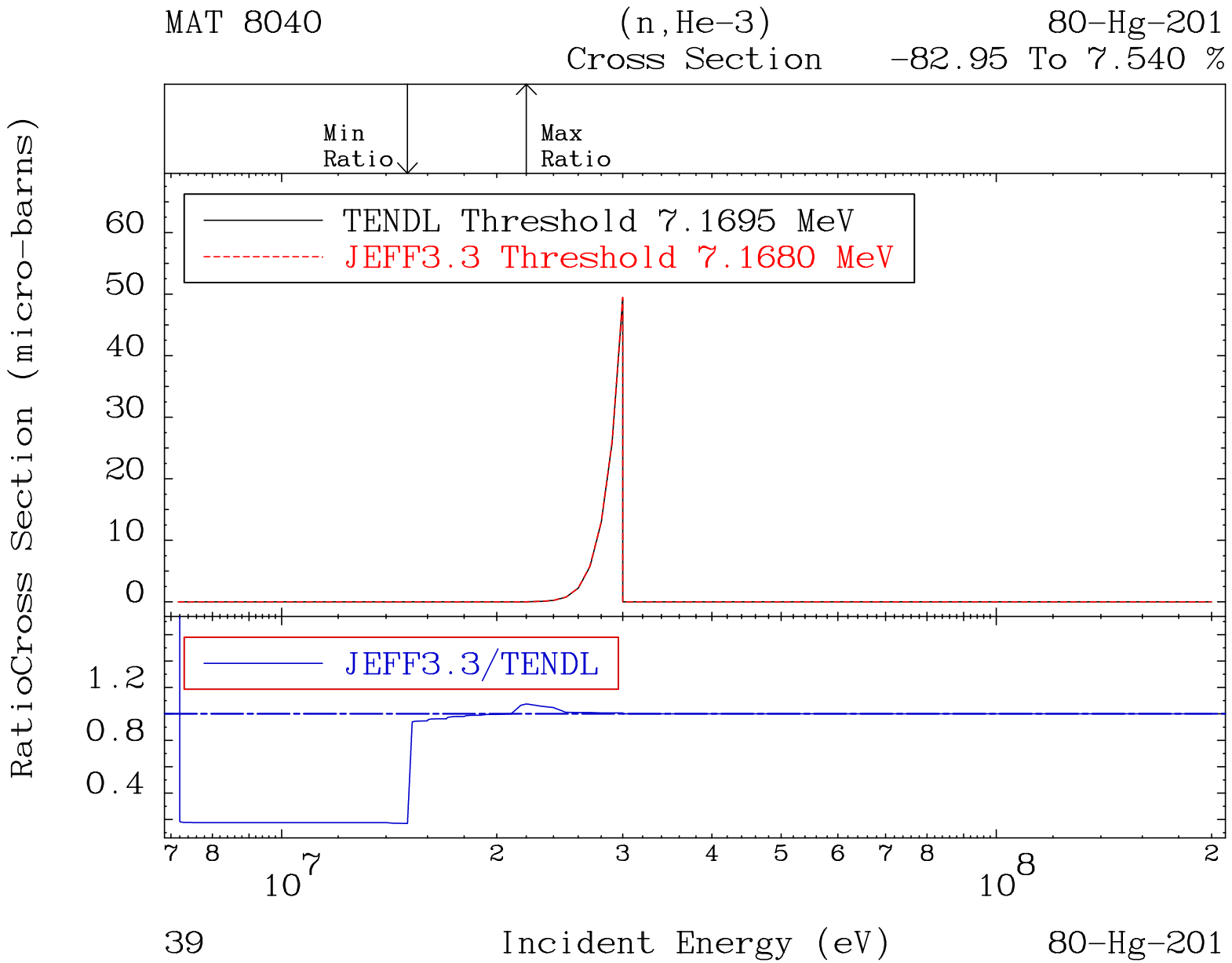

MAT 8040
(n,n') Continuum
Cross Section
80-Hg-201
-100.0 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0402 MeV
JEFF3.3 Threshold 2.0914 MeV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.2
0.6
0.0
2
3
4
5
6
8
10^6
10^7
10^8
34
Incident Energy (eV)
80-Hg-201

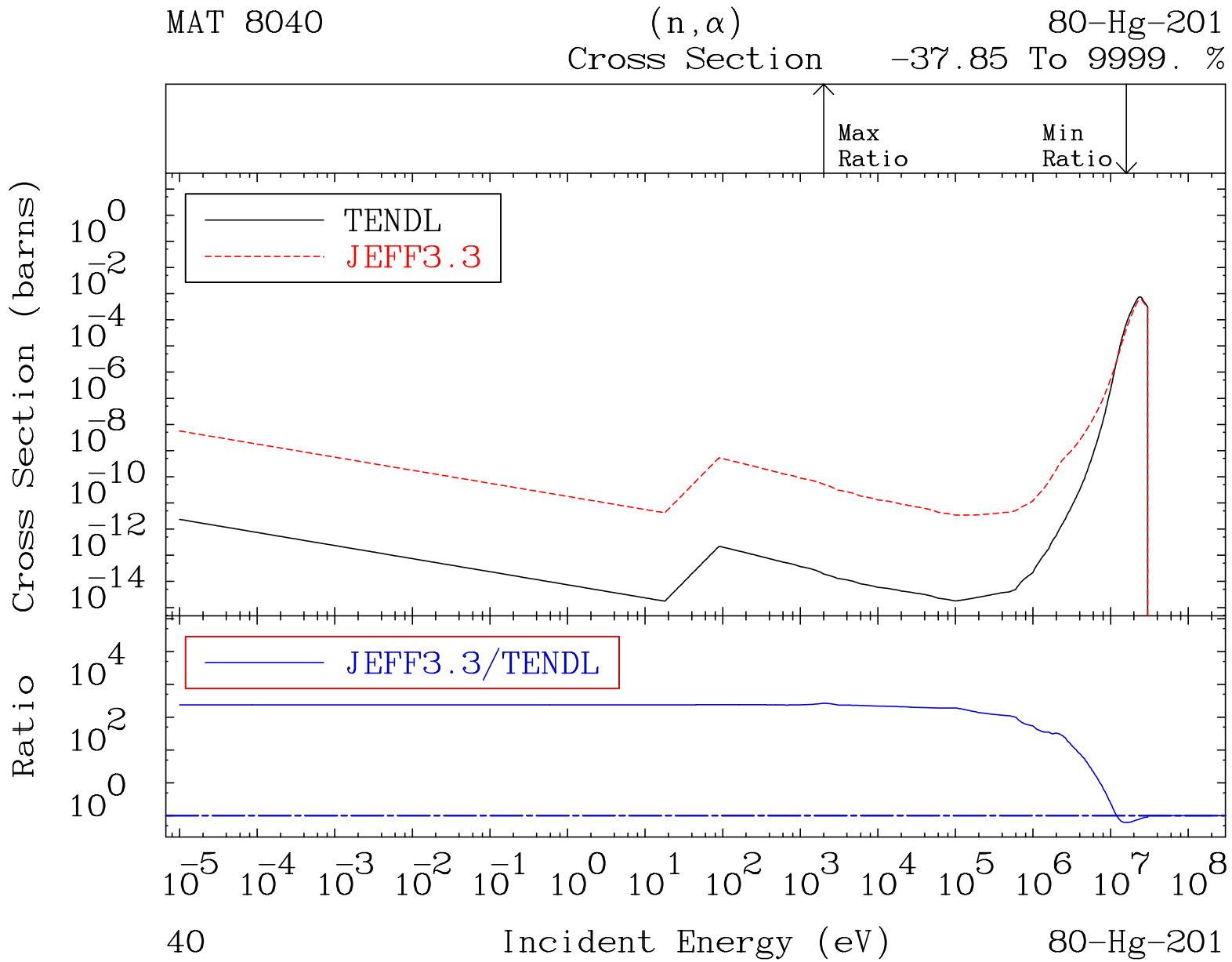

MAT 8040
(n,γ)
Cross Section
80-Hg-201
-95.79 To 1948. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
80-Hg-201

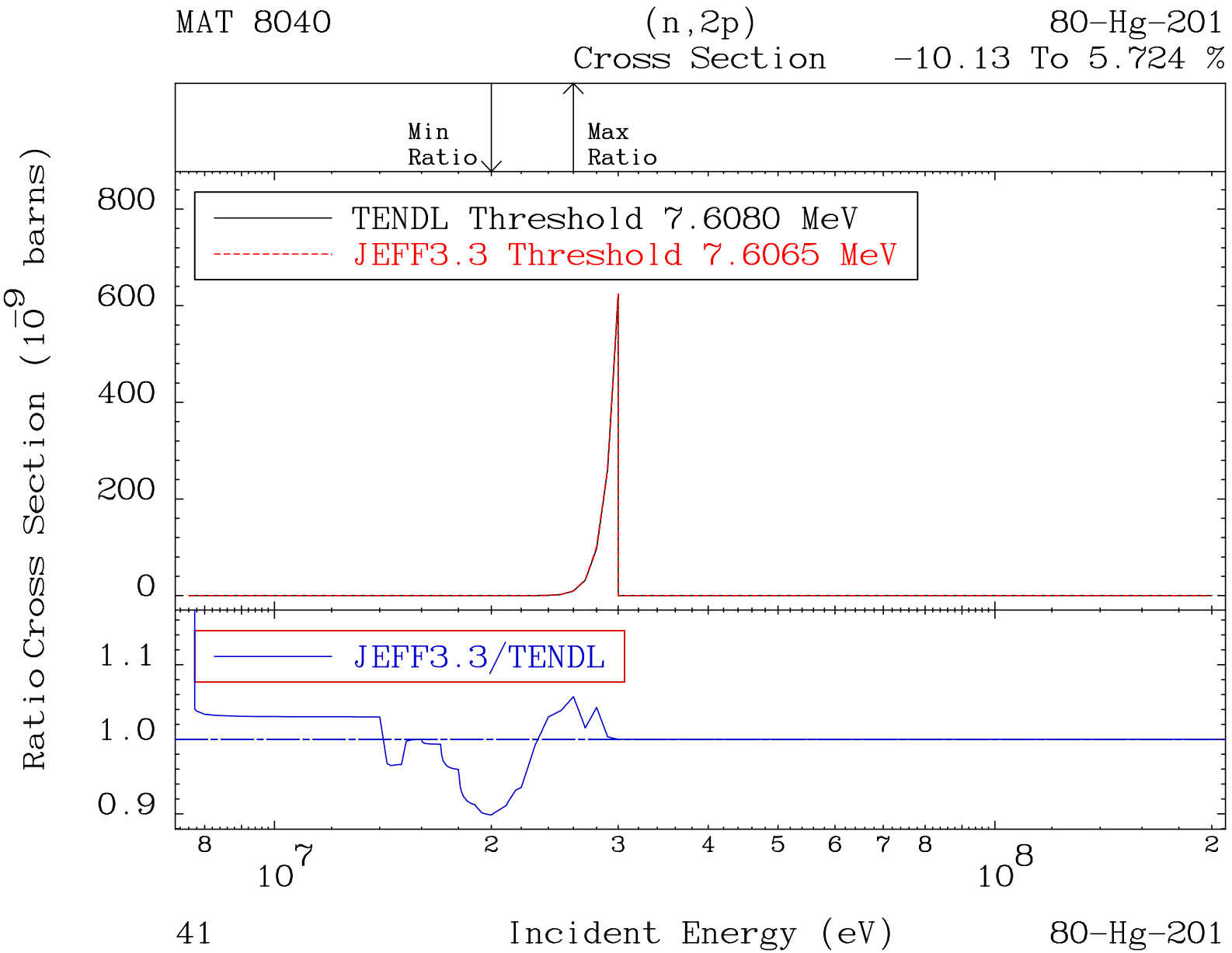

MAT 8040
(n,p)
Cross Section
80-Hg-201
-100.0 To 85.14 %
Min Ratio
Max Ratio
TENDL Threshold 481.88 keV
JEFF3.3 Threshold 481.88 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
2.0
1.0
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
36
Incident Energy (eV)
80-Hg-201

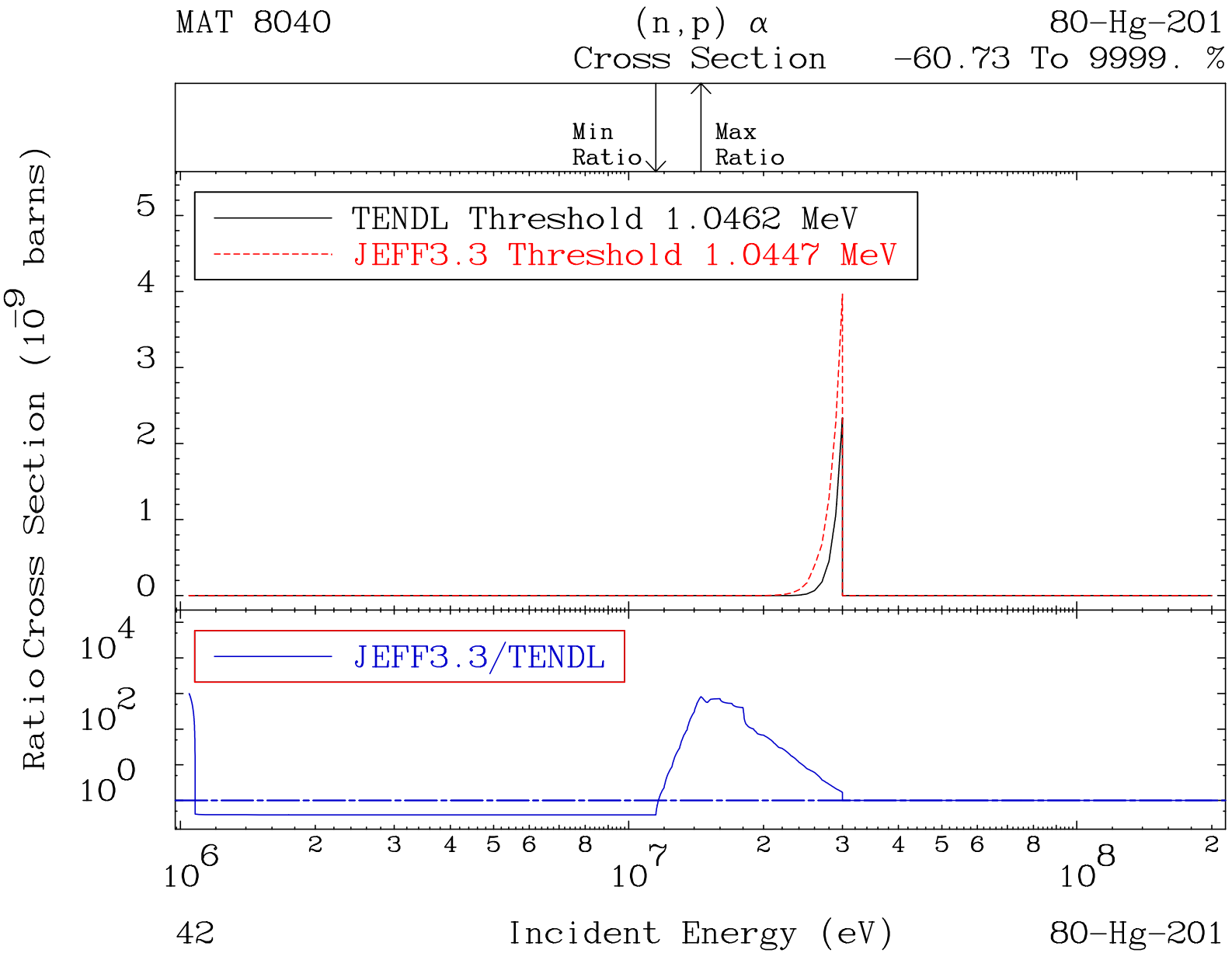

MAT 8040
(n,d)
Cross Section
80-Hg-201
-100.0 To 140.9 %
Min Ratio
Max Ratio
TENDL Threshold 5.5144 MeV
JEFF3.3 Threshold 5.5144 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
37
80-Hg-201

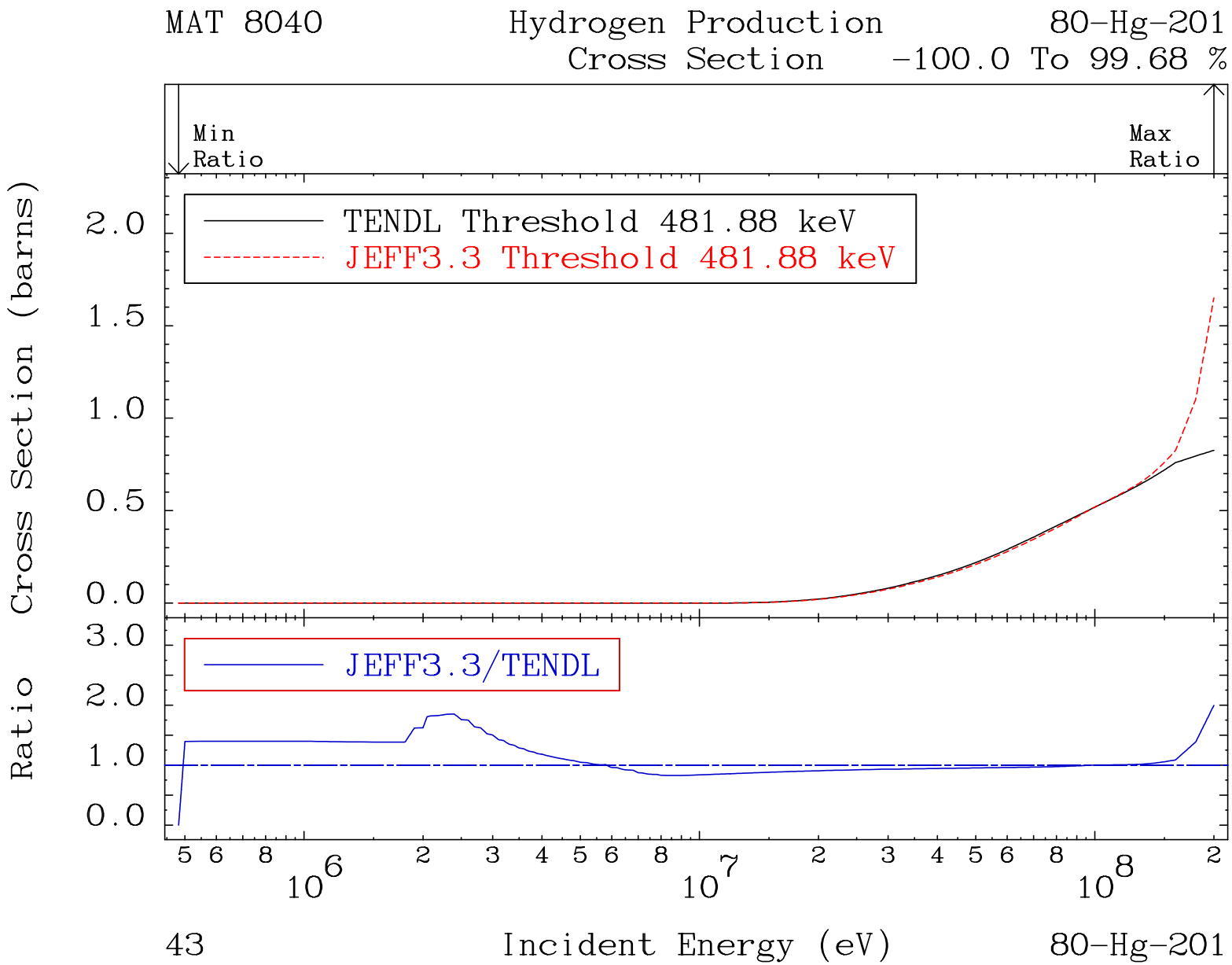

MAT 8040
(n,t)
Cross Section
80-Hg-201
-0.433 To 7.916 %
Max Ratio
Min Ratio
TENDL Threshold 5.4746 MeV
JEFF3.3 Threshold 5.4736 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
38
80-Hg-201

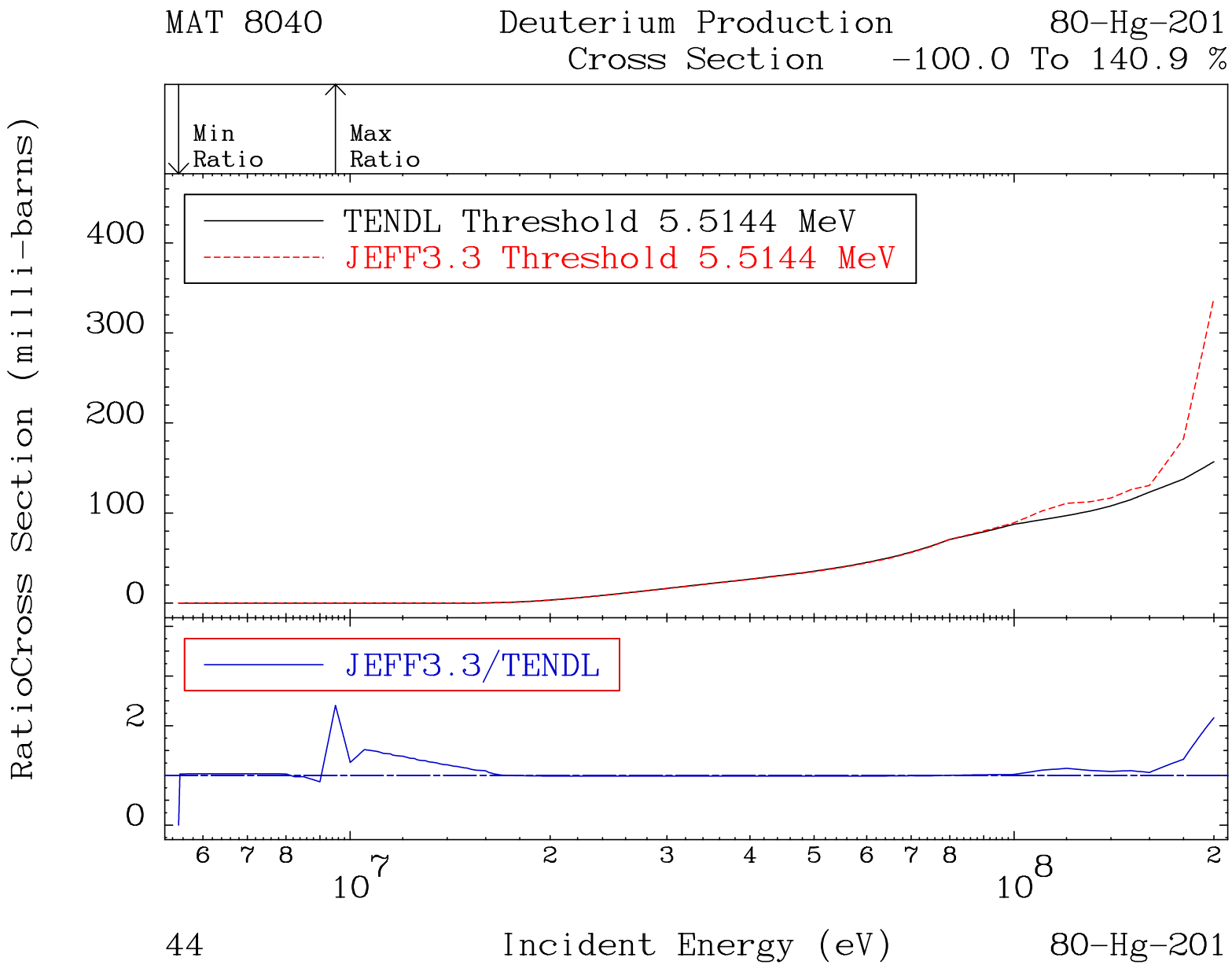

MAT 8040
(n,He-3)
Cross Section
80-Hg-201
-82.95 To 7.540 %
Min Ratio
Max Ratio
TENDL Threshold 7.1695 MeV
JEFF3.3 Threshold 7.1680 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
60
50
40
30
20
10
0
1.2
0.8
0.4
7 8 10^7 2 3 4 5 6 7 8 10^8 2
39
Incident Energy (eV)
80-Hg-201

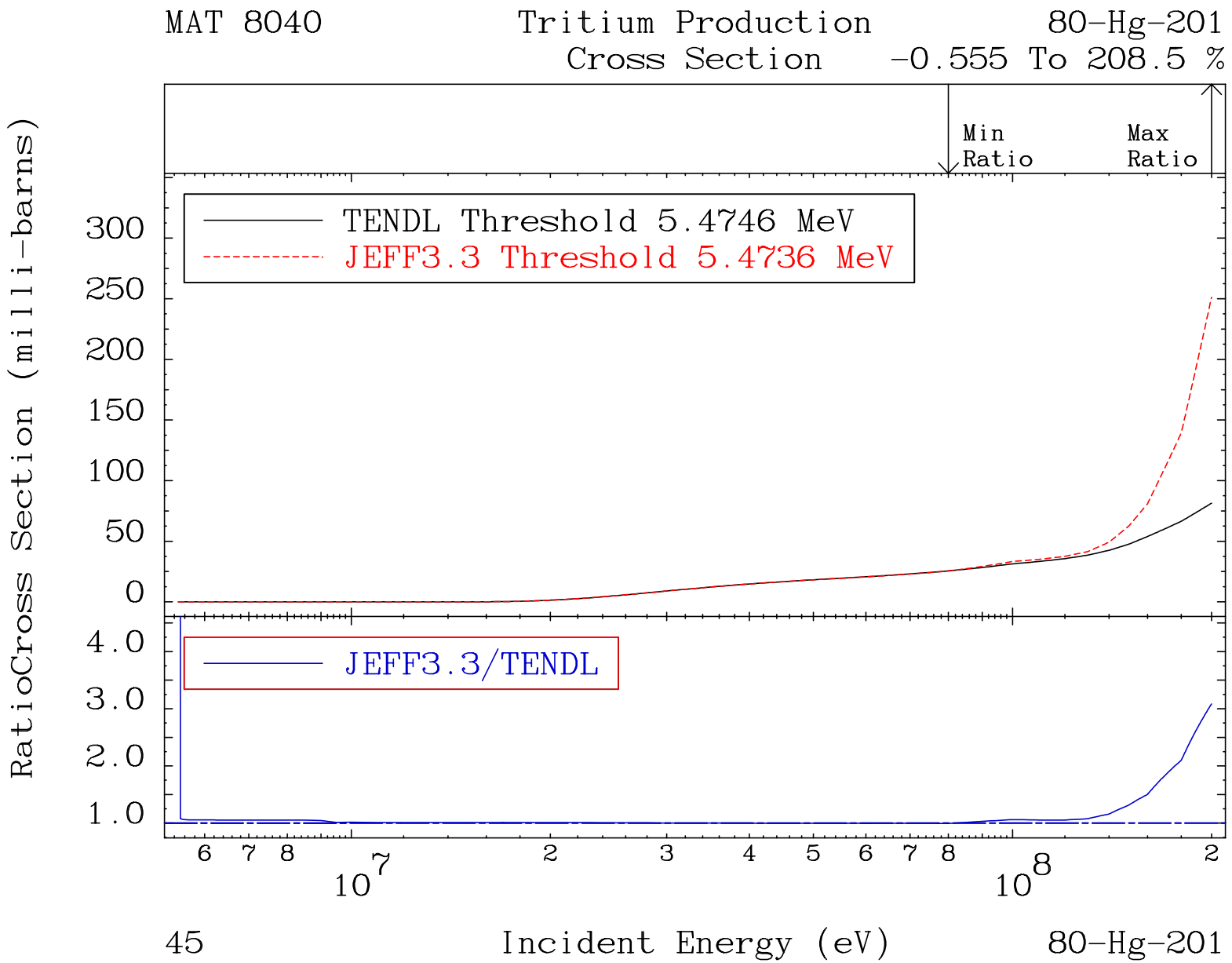

MAT 8040
(n,α)
Cross Section
80-Hg-201
-37.85 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
40
80-Hg-201

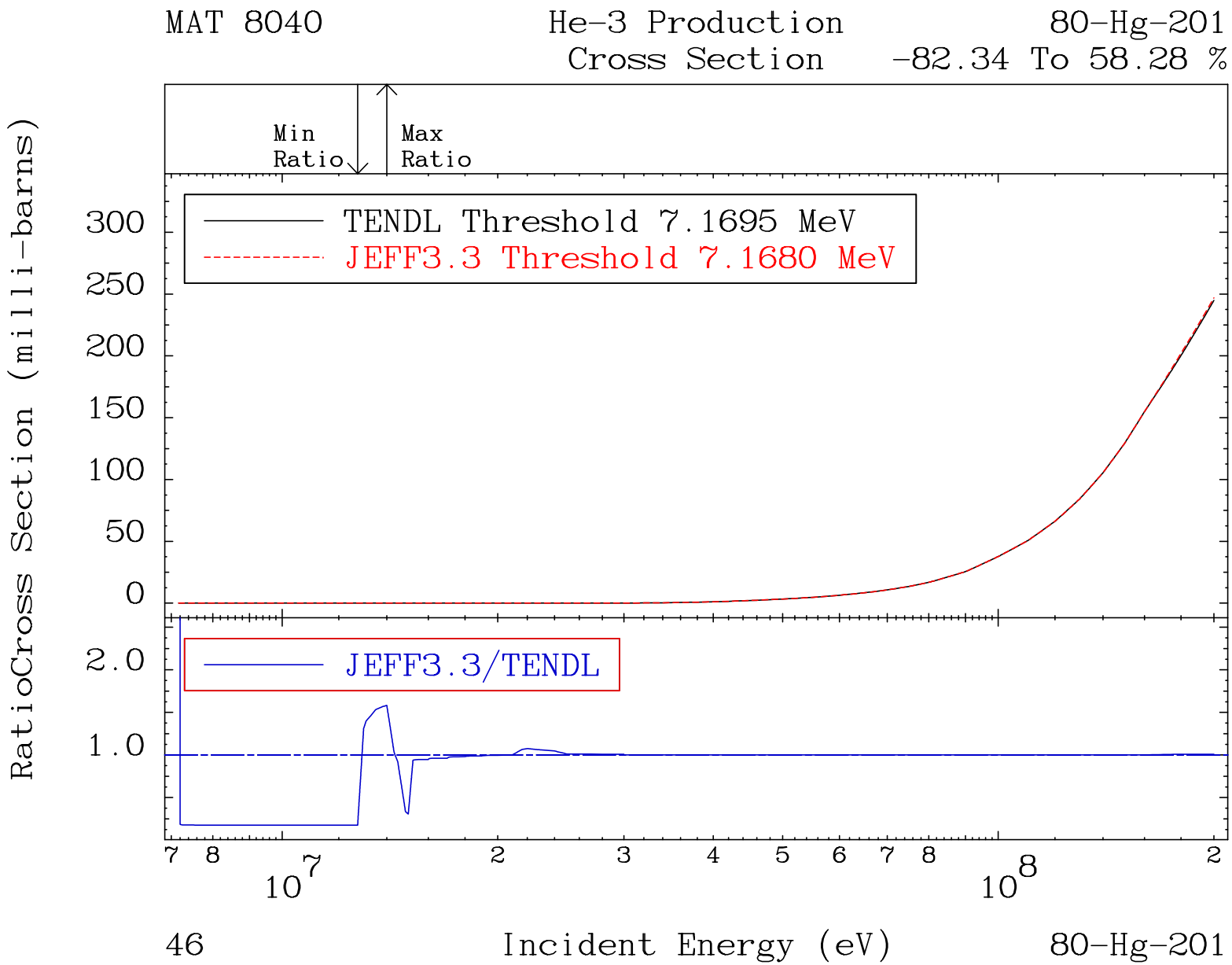

MAT 8040
(n,2p)
Cross Section
80-Hg-201
-10.13 To 5.724 %
Min Ratio
Max Ratio
TENDL Threshold 7.6080 MeV
JEFF3.3 Threshold 7.6065 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
800
600
400
200
0
1.1
1.0
0.9
8
10^7
2
3
4
5
6
7
8
10^8
2
41
Incident Energy (eV)
80-Hg-201

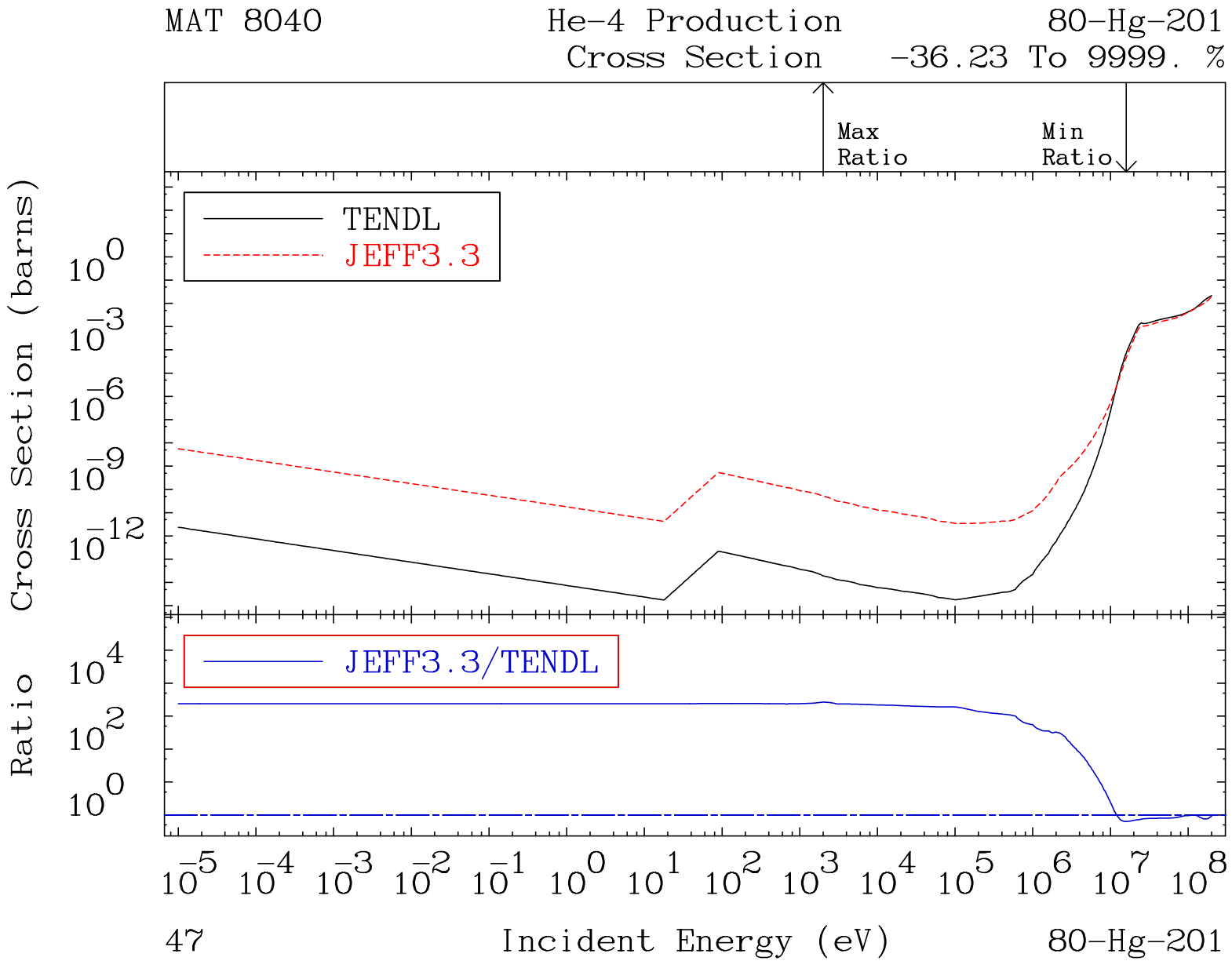

MAT 8040
(n,p) α
Cross Section
80-Hg-201
-60.73 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.0462 MeV
JEFF3.3 Threshold 1.0447 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
Incident Energy (eV)
42
80-Hg-201

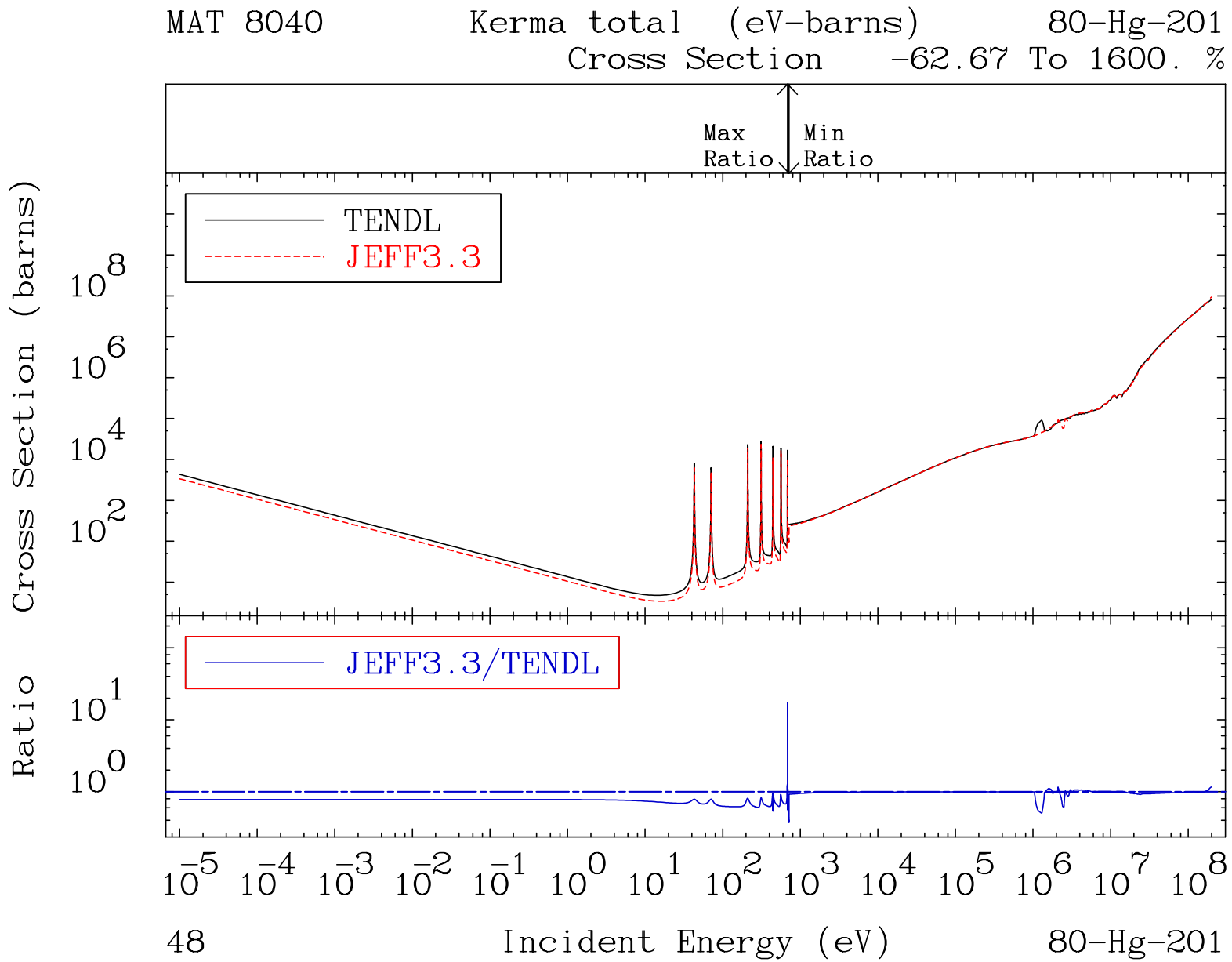

MAT 8040
Hydrogen Production
Cross Section
80-Hg-201
-100.0 To 99.68 %
Min Ratio
Max Ratio
TENDL Threshold 481.88 keV
JEFF3.3 Threshold 481.88 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
3.0
2.0
1.0
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
43
Incident Energy (eV)
80-Hg-201

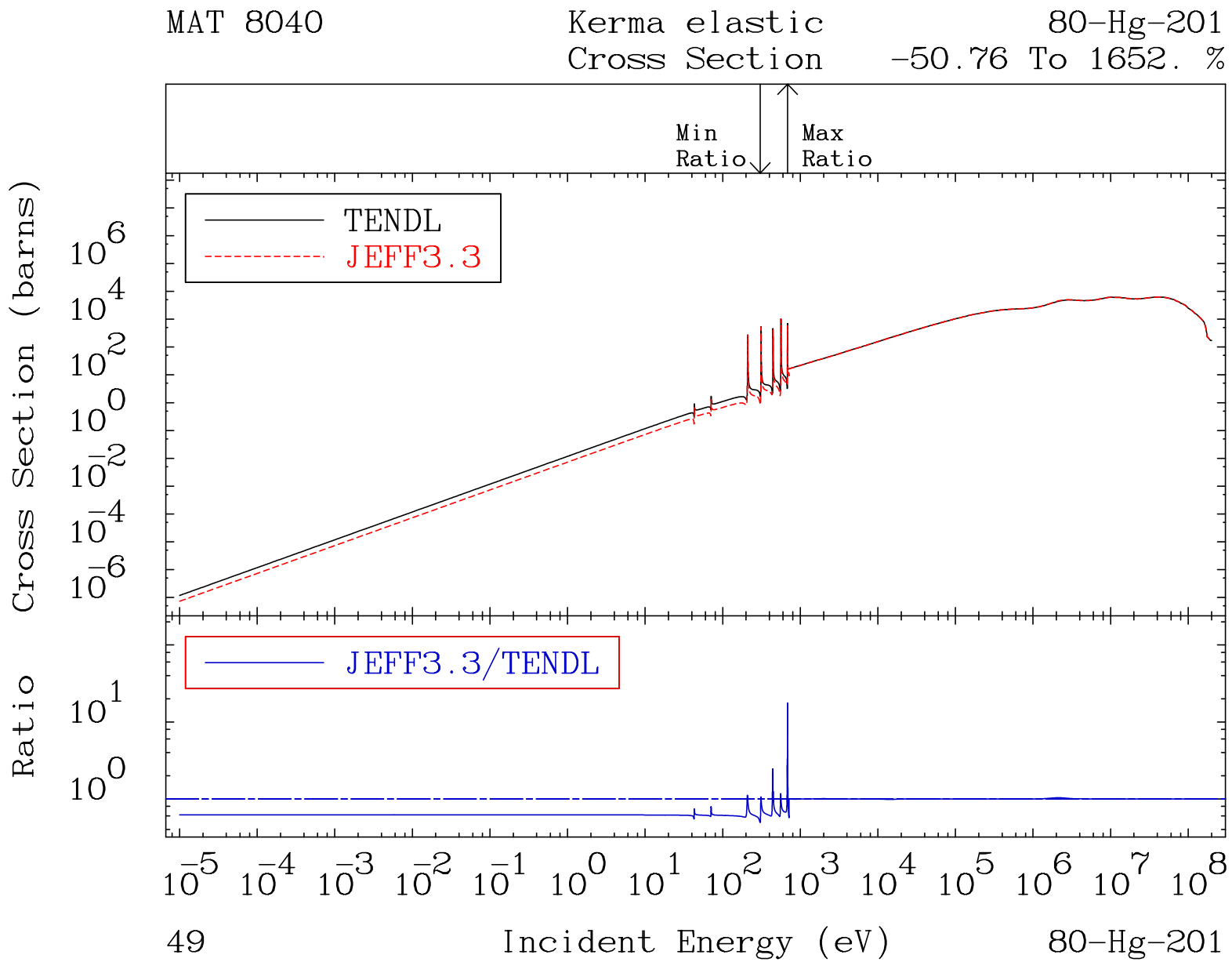

MAT 8040
Deuterium Production
80-Hg-201
Cross Section -100.0 To 140.9 %
Min Ratio
Max Ratio
TENDL Threshold 5.5144 MeV
JEFF3.3 Threshold 5.5144 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
2
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
80-Hg-201

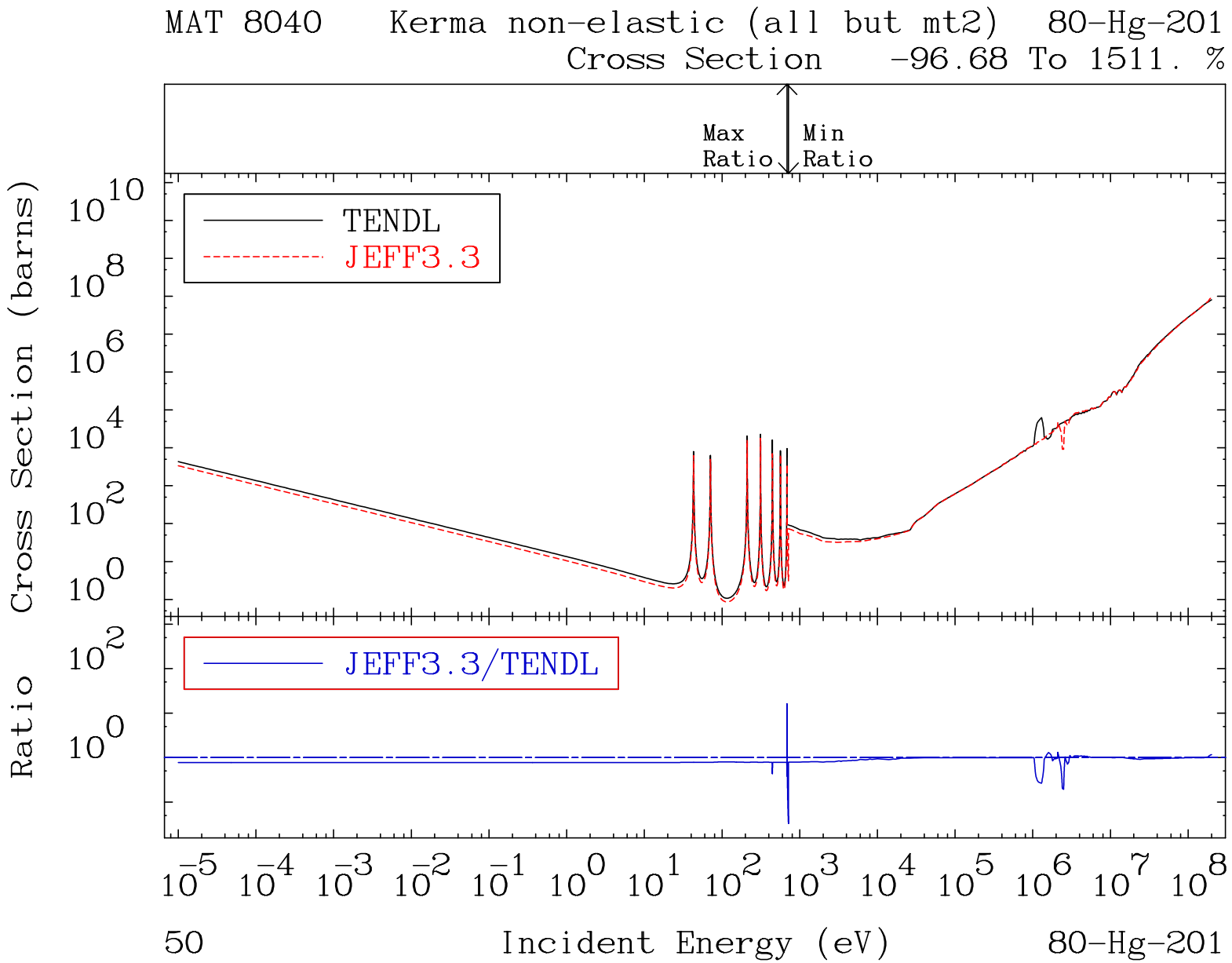

MAT 8040
Tritium Production
Cross Section
80-Hg-201
-0.555 To 208.5 %
Min Ratio
Max Ratio
TENDL Threshold 5.4746 MeV
JEFF3.3 Threshold 5.4736 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
4.0
3.0
2.0
1.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
80-Hg-201

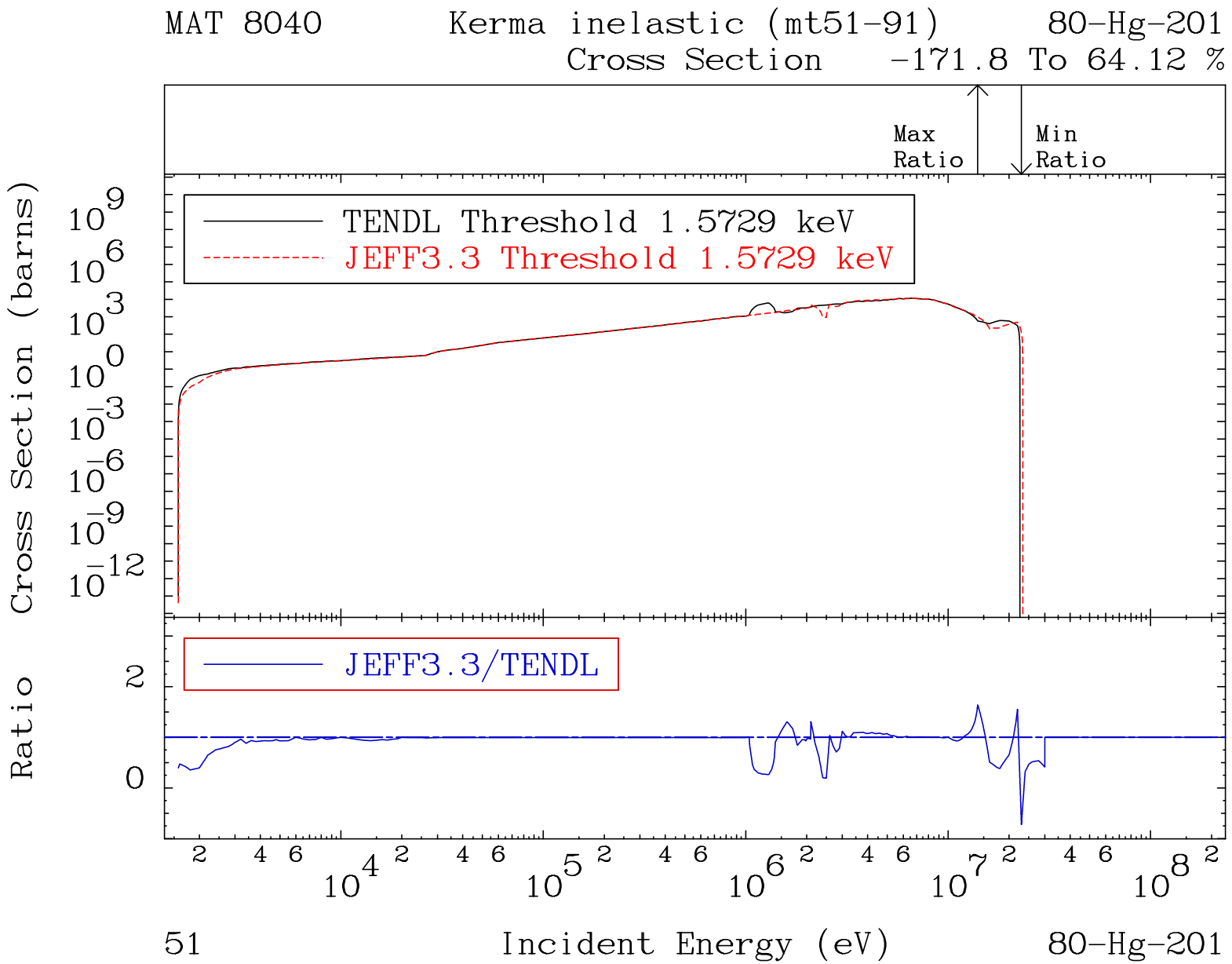

MAT 8040
He-3 Production
Cross Section
80-Hg-201
-82.34 To 58.28 %
Min Ratio
Max Ratio
TENDL Threshold 7.1695 MeV
JEFF3.3 Threshold 7.1680 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2.0
1.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
46
Incident Energy (eV)
80-Hg-201

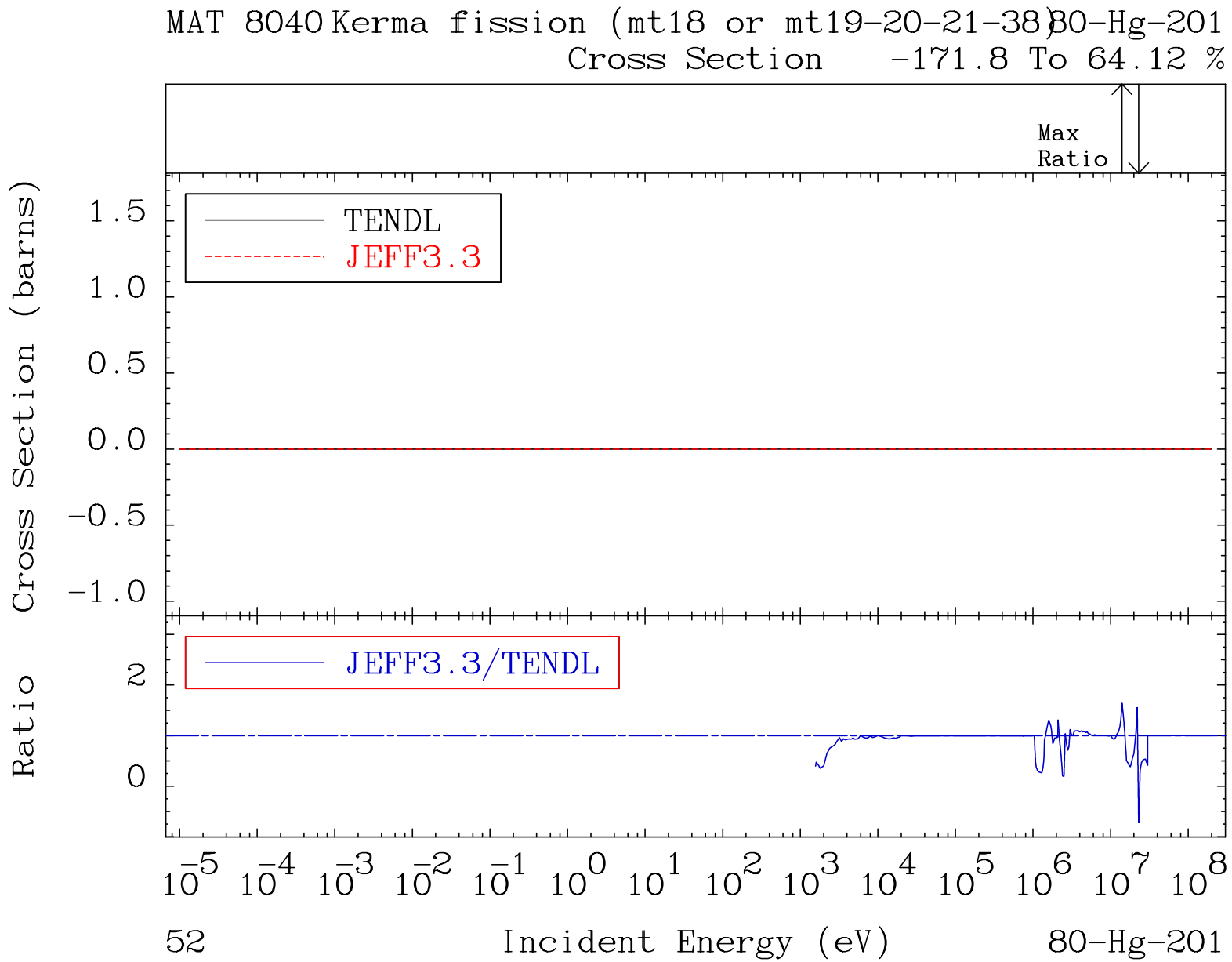

MAT 8040
He-4 Production
Cross Section
80-Hg-201
-36.23 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
80-Hg-201

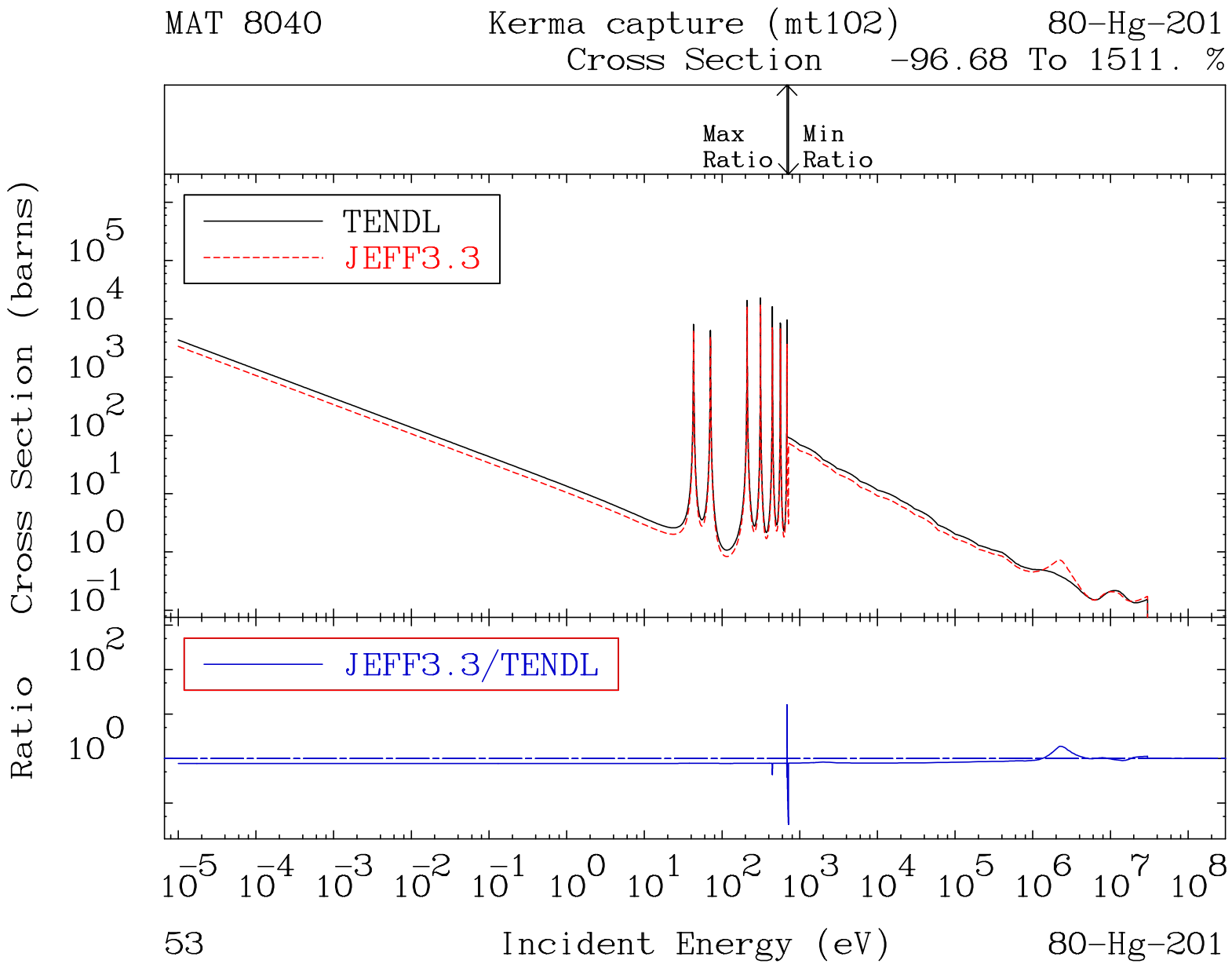

MAT 8040
Kerma total (eV-barns)
80-Hg-201
Cross Section -62.67 To 1600. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
80-Hg-201

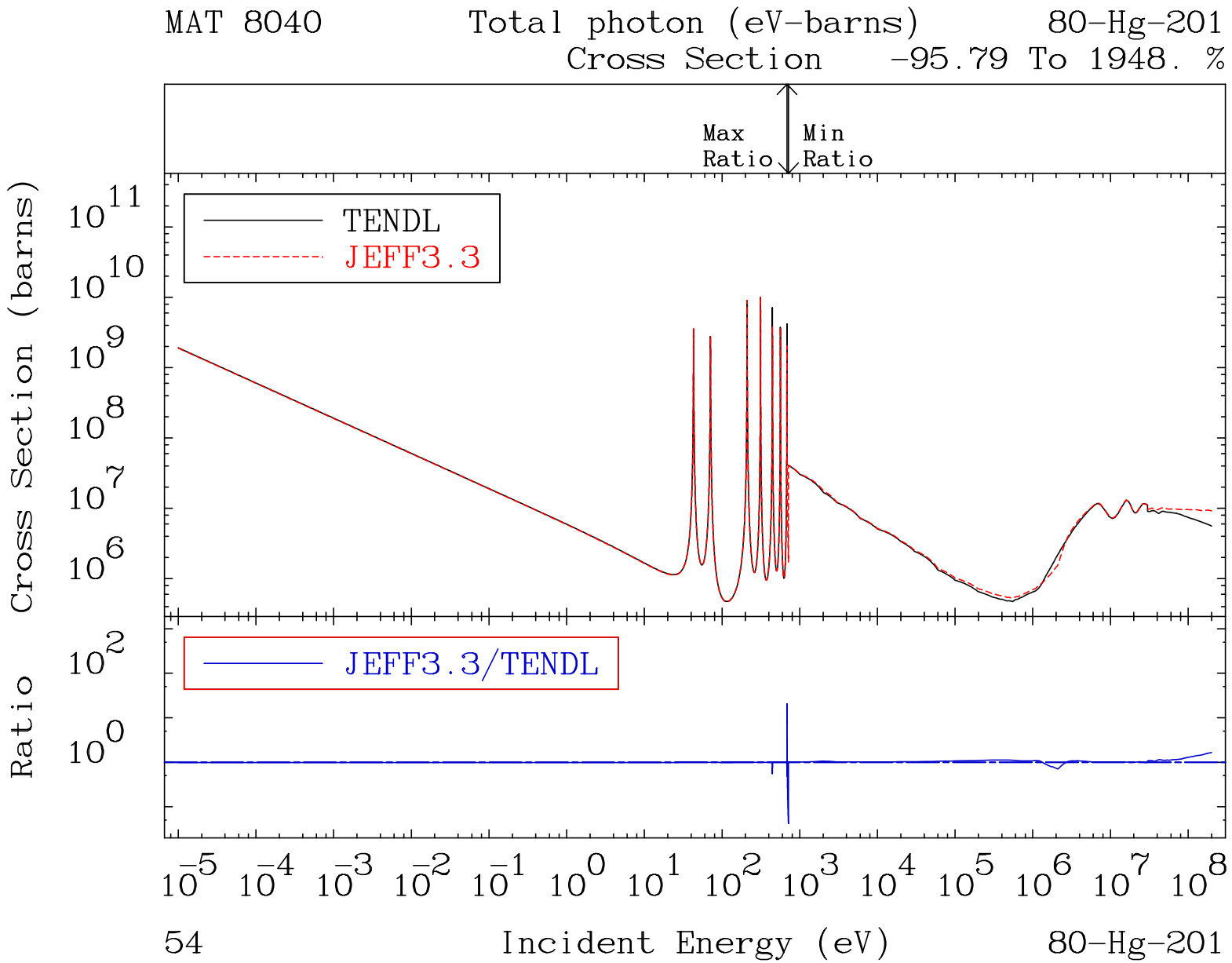

MAT 8040
Kerma elastic
Cross Section
80-Hg-201
-50.76 To 1652. %
Min
Ratio
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
80-Hg-201

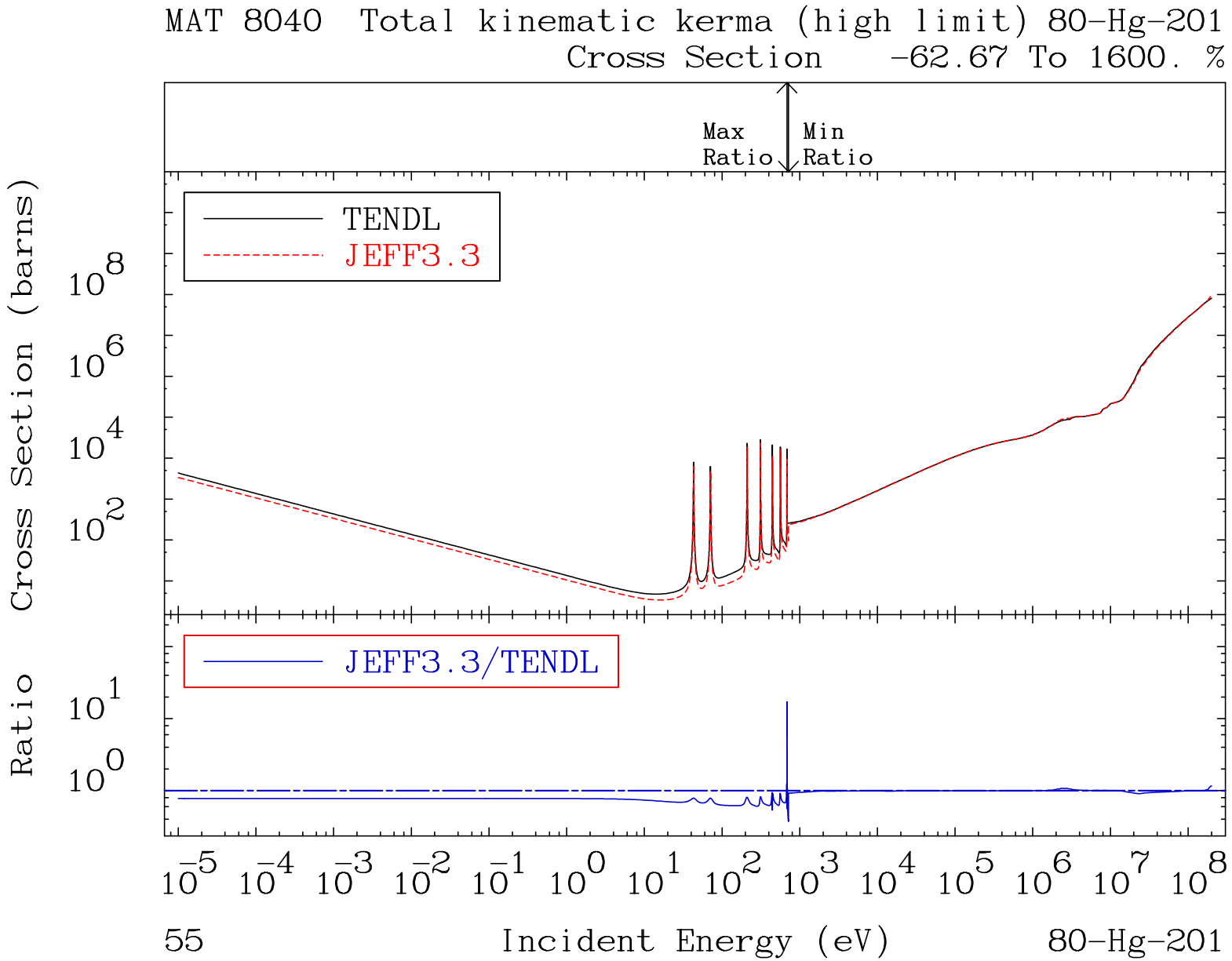

MAT 8040 Kerma non-elastic (all but mt2) 80-Hg-201
Cross Section -96.68 To 1511. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
50
80-Hg-201

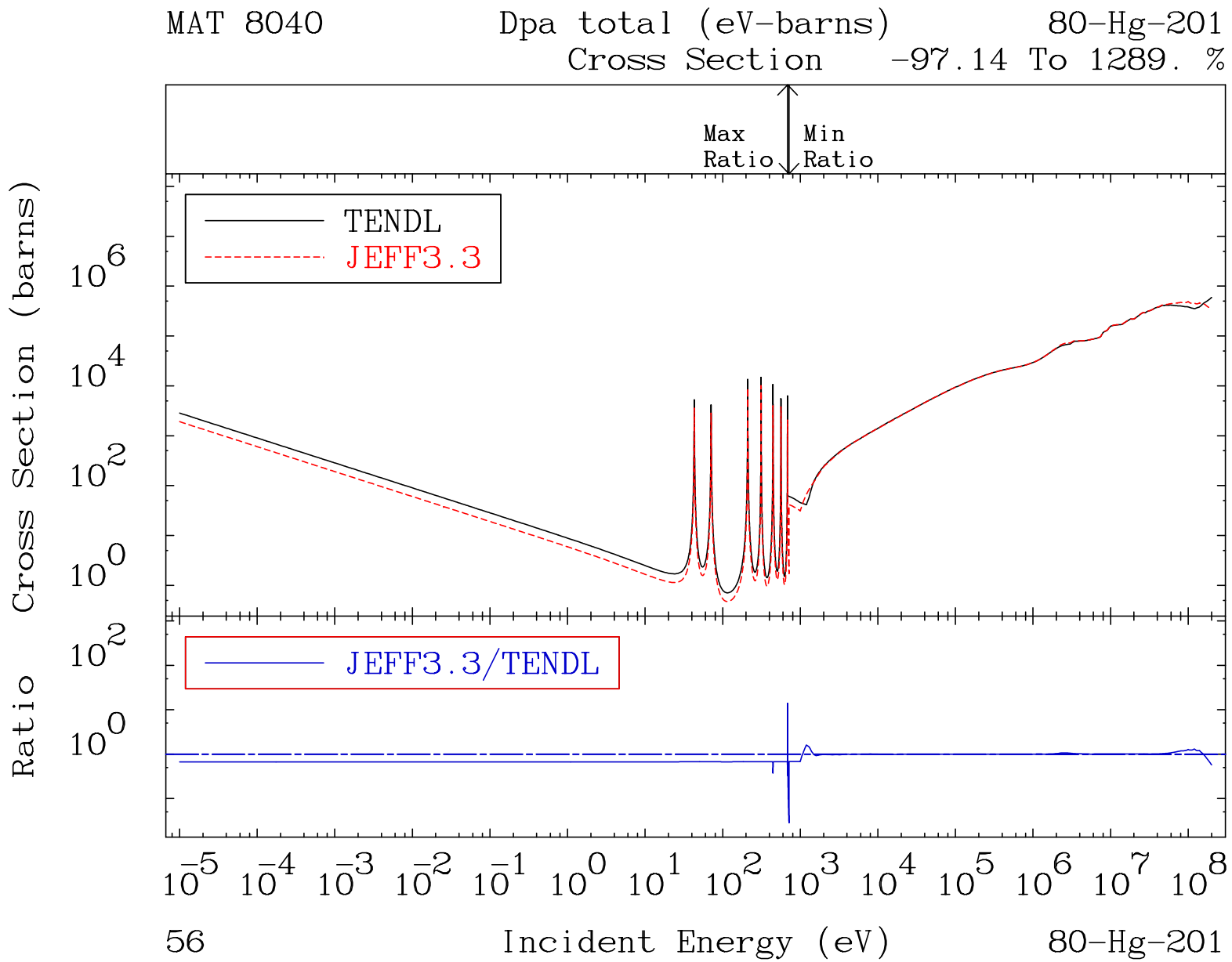

MAT 8040
Kerma inelastic (mt51-91)
80-Hg-201
Cross Section -171.8 To 64.12 %
Max Ratio
Min Ratio
TENDL Threshold 1.5729 keV
JEFF3.3 Threshold 1.5729 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
51
80-Hg-201

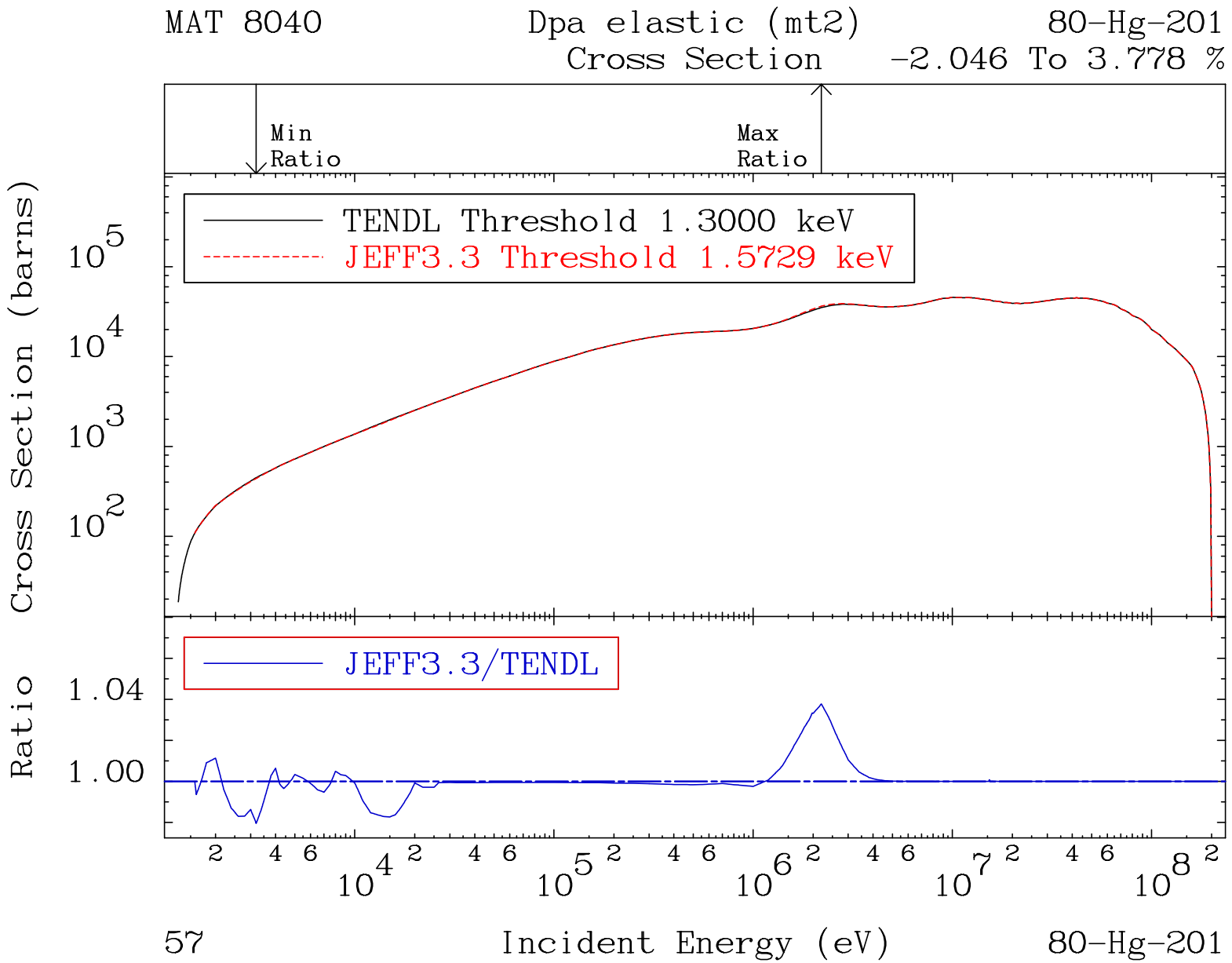

MAT 8040 Kerma fission (mt18 or mt19-20-21-38) 80-Hg-201
Cross Section -171.8 To 64.12 %
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
2
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
52
Incident Energy (eV)
80-Hg-201

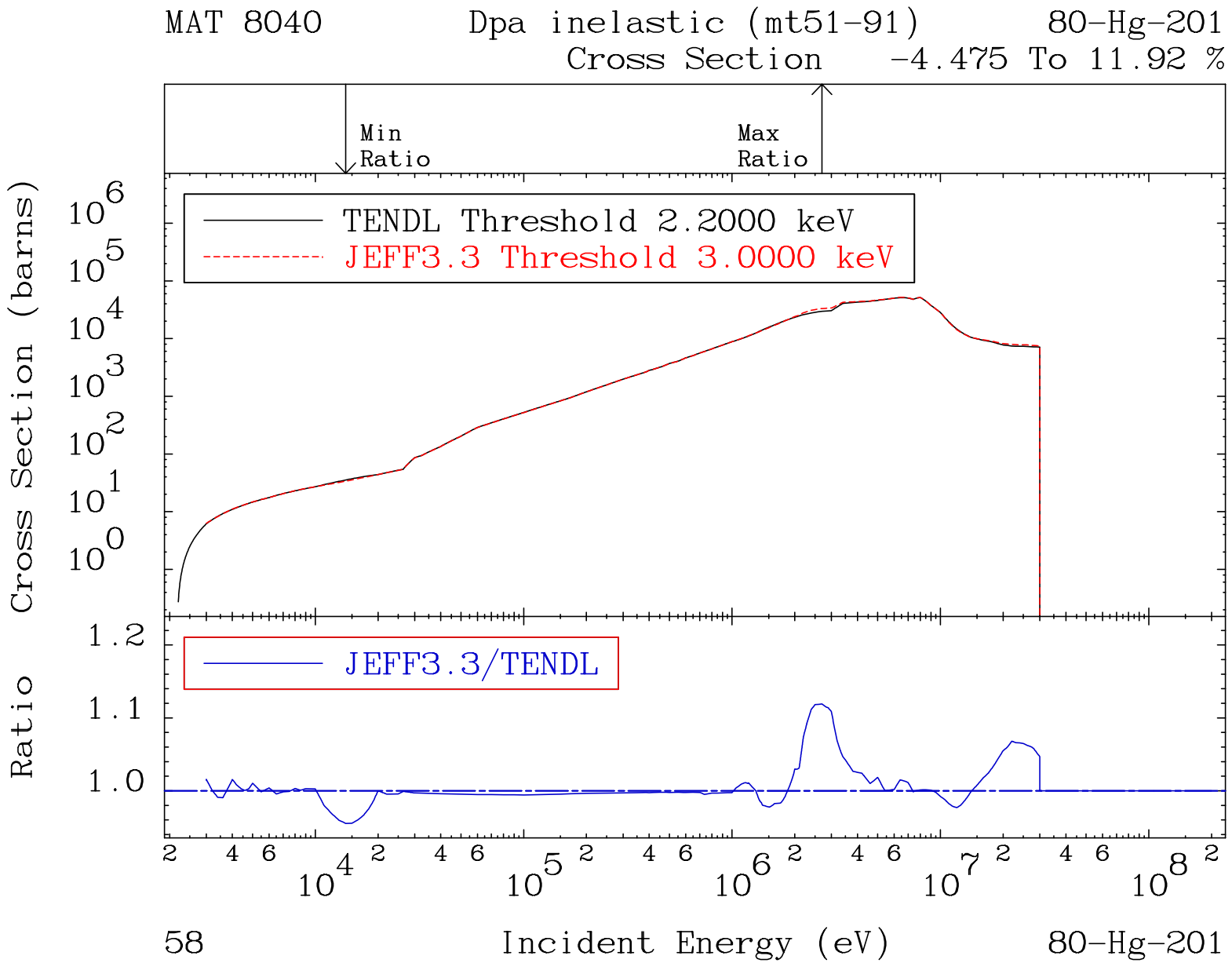

MAT 8040
Kerma capture (mt102)
80-Hg-201
Cross Section
-96.68 To 1511. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
80-Hg-201

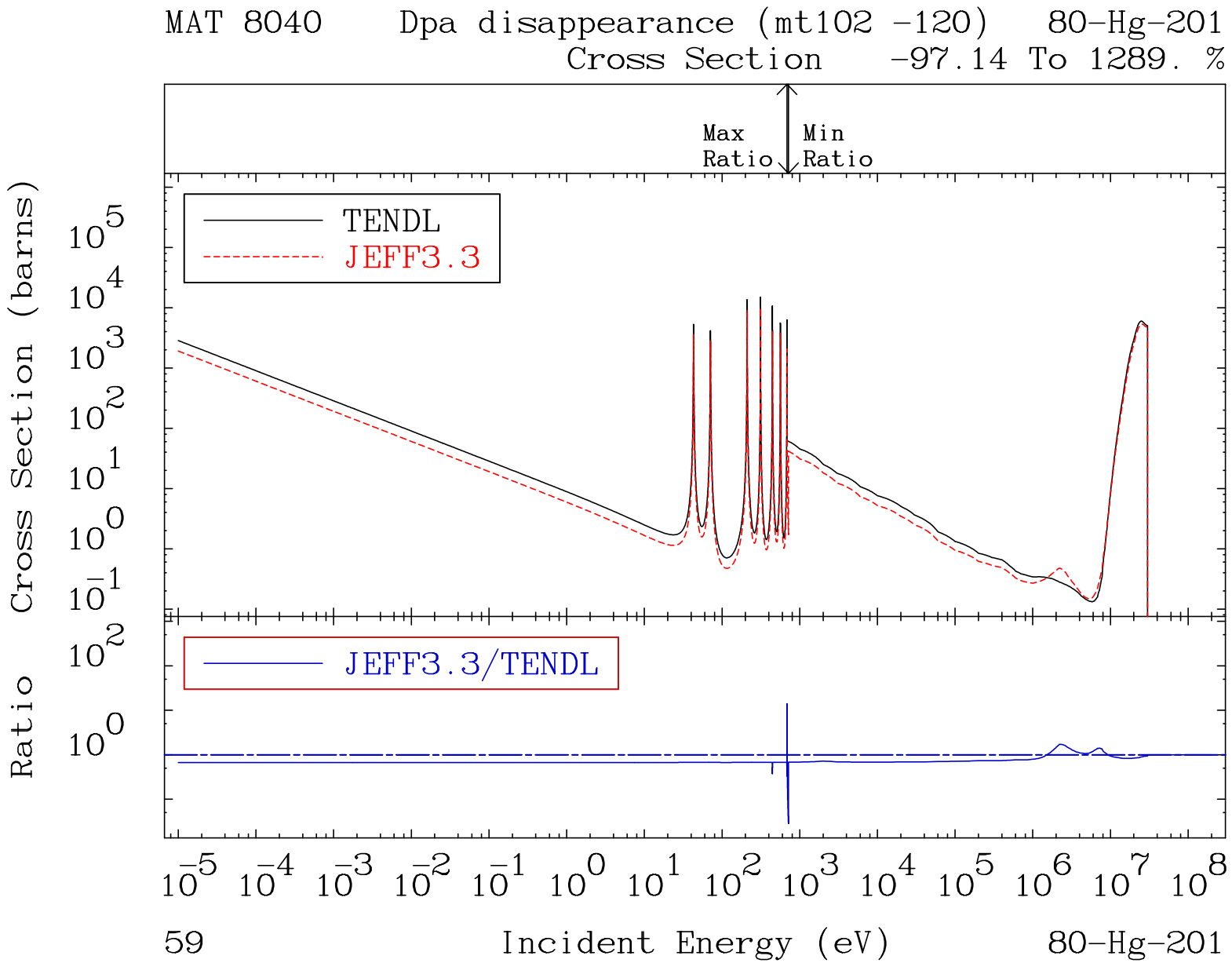

MAT 8040
Total photon (eV-barns)
80-Hg-201
Cross Section
-95.79 To 1948. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
80-Hg-201

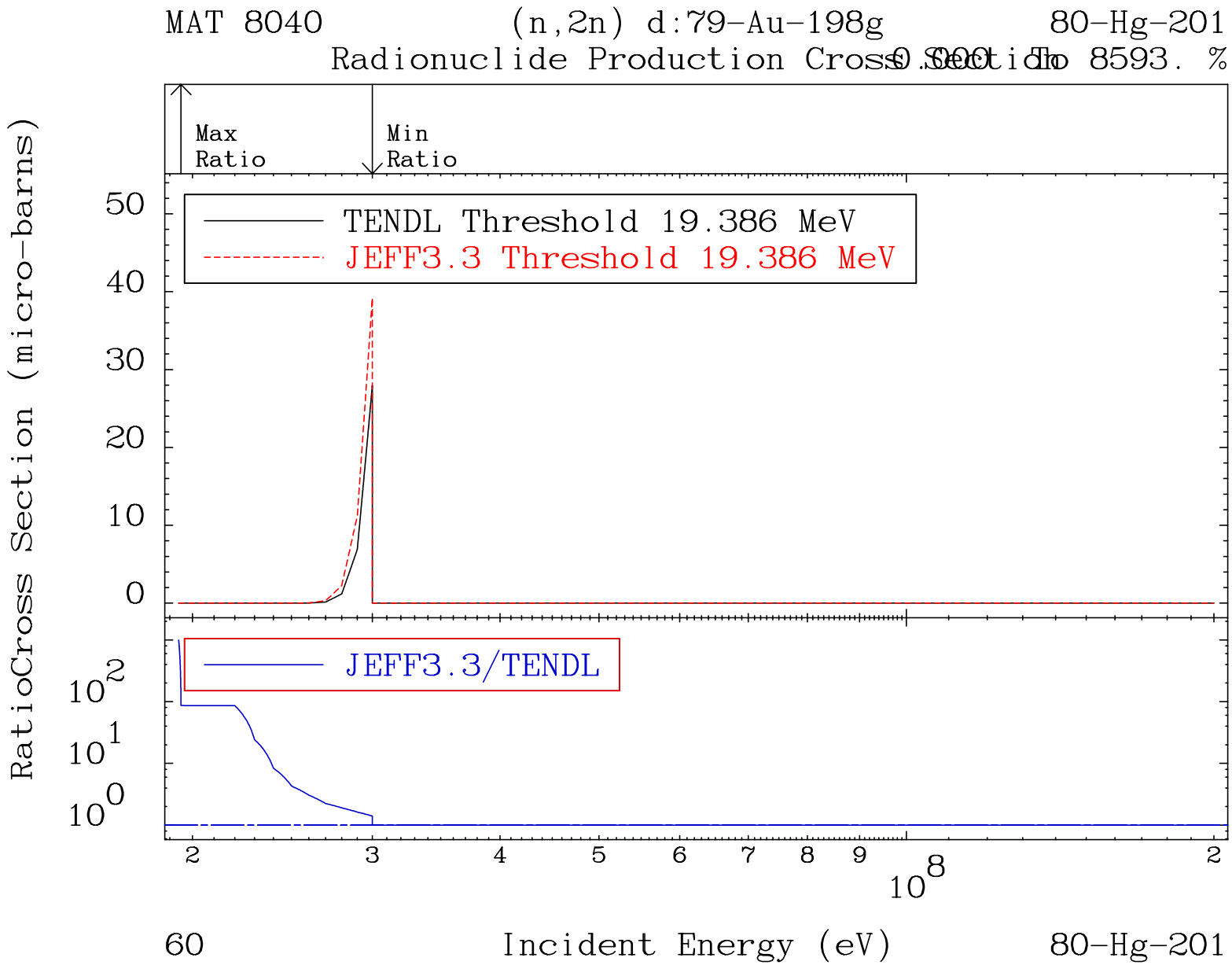

MAT 8040 Total kinematic kerma (high limit) 80-Hg-201
Cross Section -62.67 To 1600. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
80-Hg-201

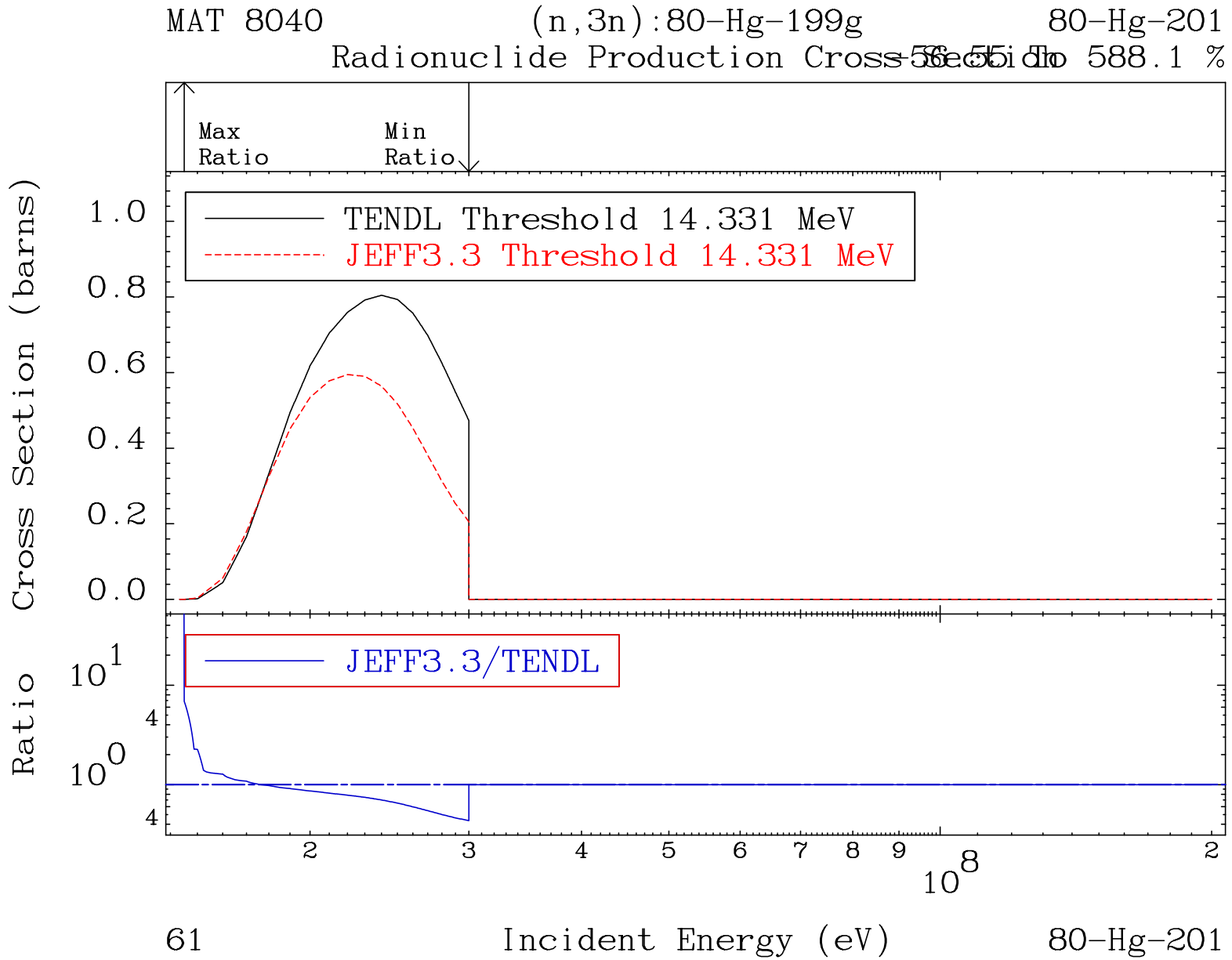

MAT 8040
Dpa total (eV-barns)
80-Hg-201
Cross Section -97.14 To 1289. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
80-Hg-201

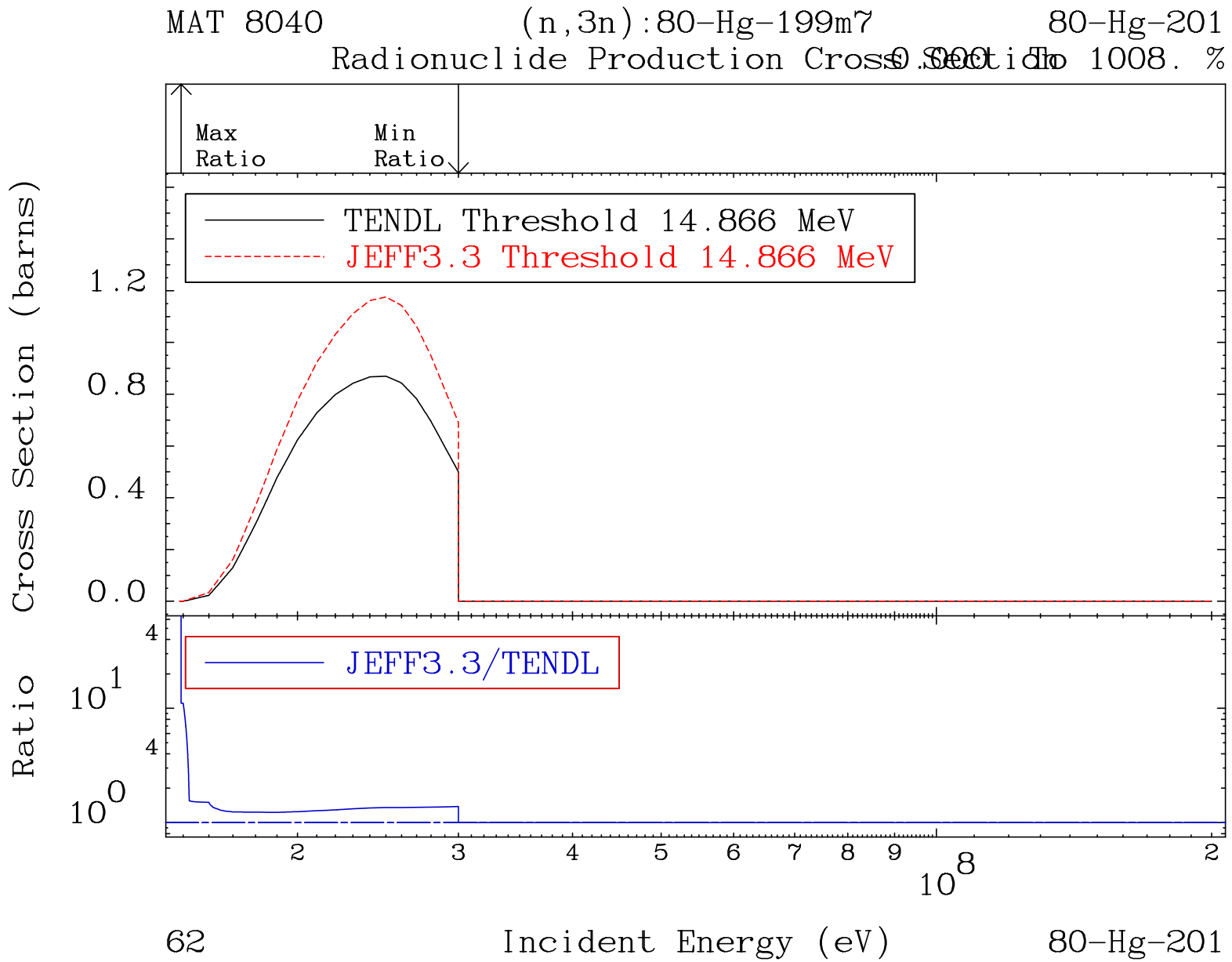

MAT 8040
Dpa elastic (mt2)
Cross Section
80-Hg-201
-2.046 To 3.778 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.3000 keV
JEFF3.3 Threshold 1.5729 keV
Cross Section (barns)
10^5
10^4
10^3
10^2
JEFF3.3/TENDL
Ratio
1.04
1.00
2 4 6 10^4 2 4 6 10^5 2 4 6 10^6 2 4 6 10^7 2 4 6 10^8 2
57
Incident Energy (eV)
80-Hg-201

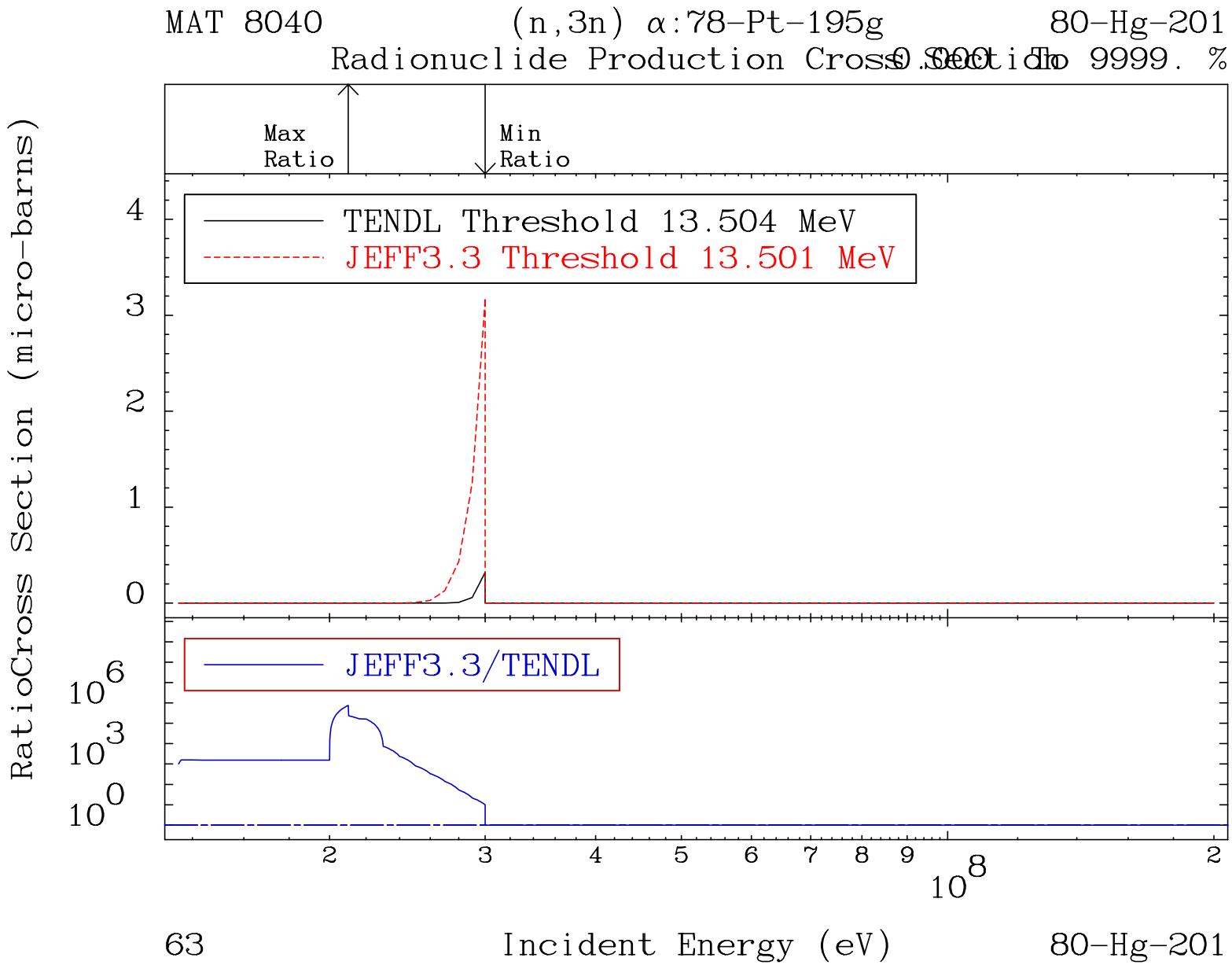

MAT 8040
Dpa inelastic (mt51-91)
80-Hg-201
Cross Section
-4.475 To 11.92 %
Min Ratio
Max Ratio
TENDL Threshold 2.2000 keV
JEFF3.3 Threshold 3.0000 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
80-Hg-201

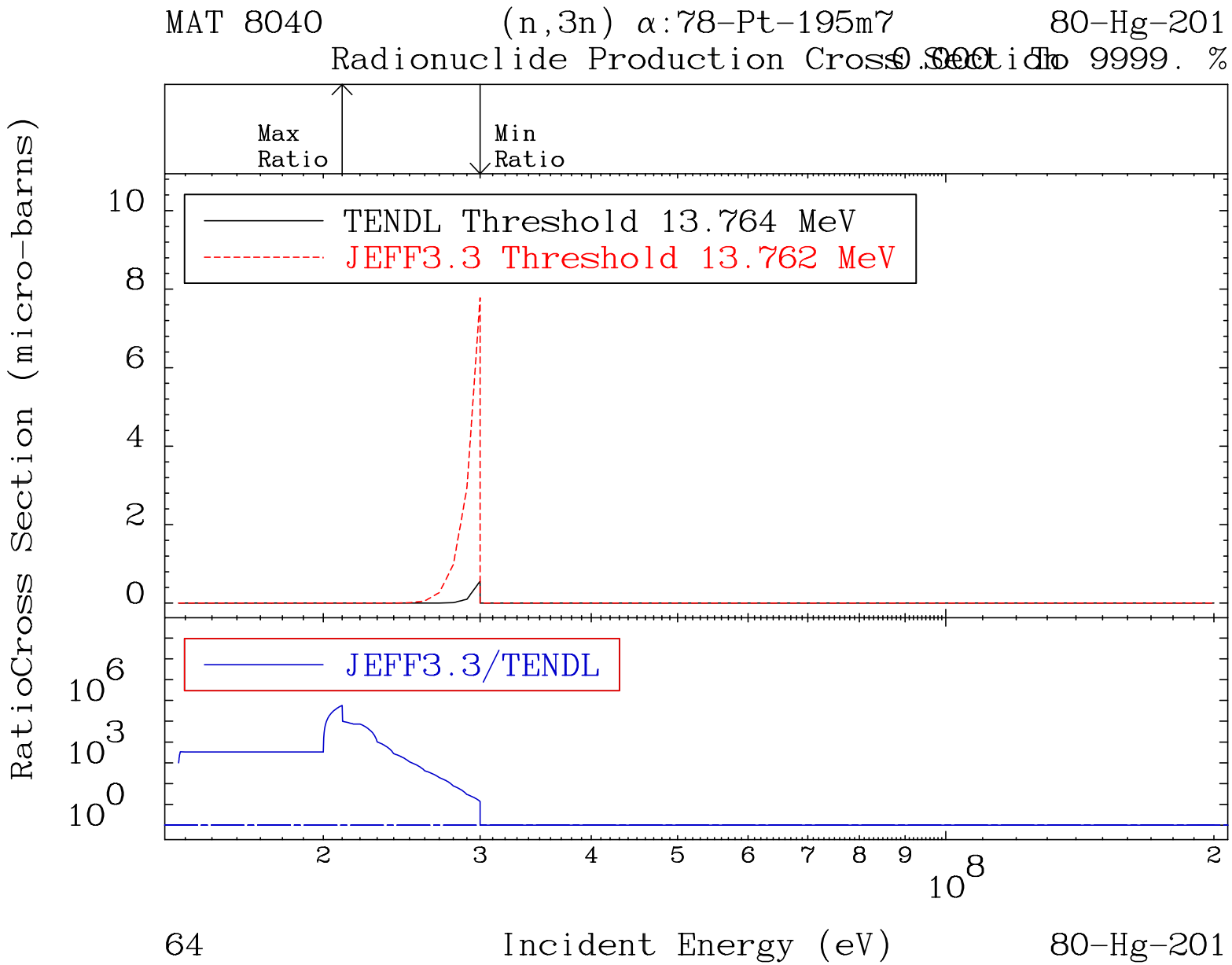

MAT 8040 Dpa disappearance (mt102 -120) 80-Hg-201
Cross Section -97.14 To 1289. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
80-Hg-201

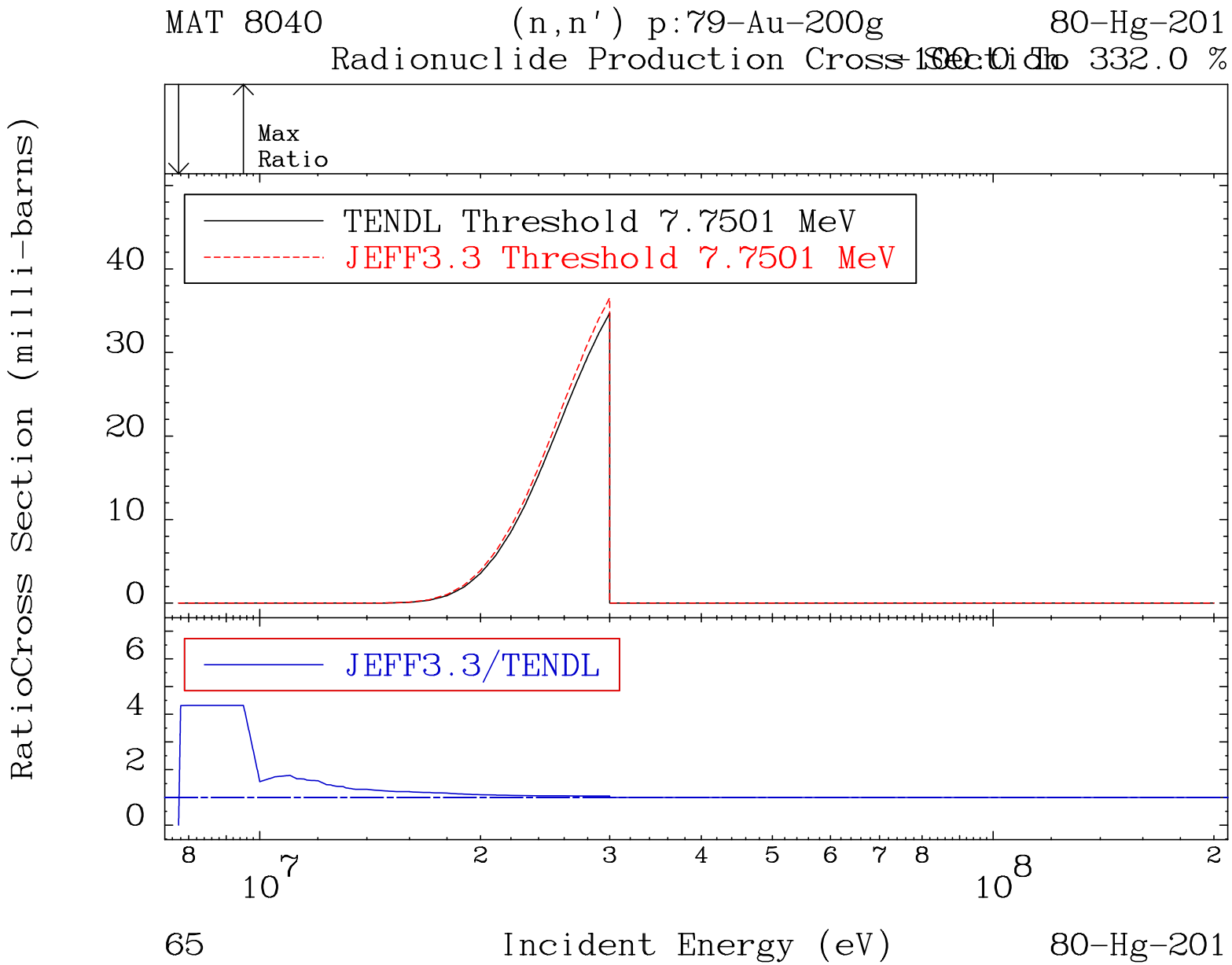

MAT 8040
(n,2n) d:79-Au-198g
80-Hg-201
Radionuclide Production Cross Section
0.0001 To 8593. %
Max Ratio
Min Ratio
TENDL Threshold 19.386 MeV
JEFF3.3 Threshold 19.386 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
50
40
30
20
10
0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
80-Hg-201

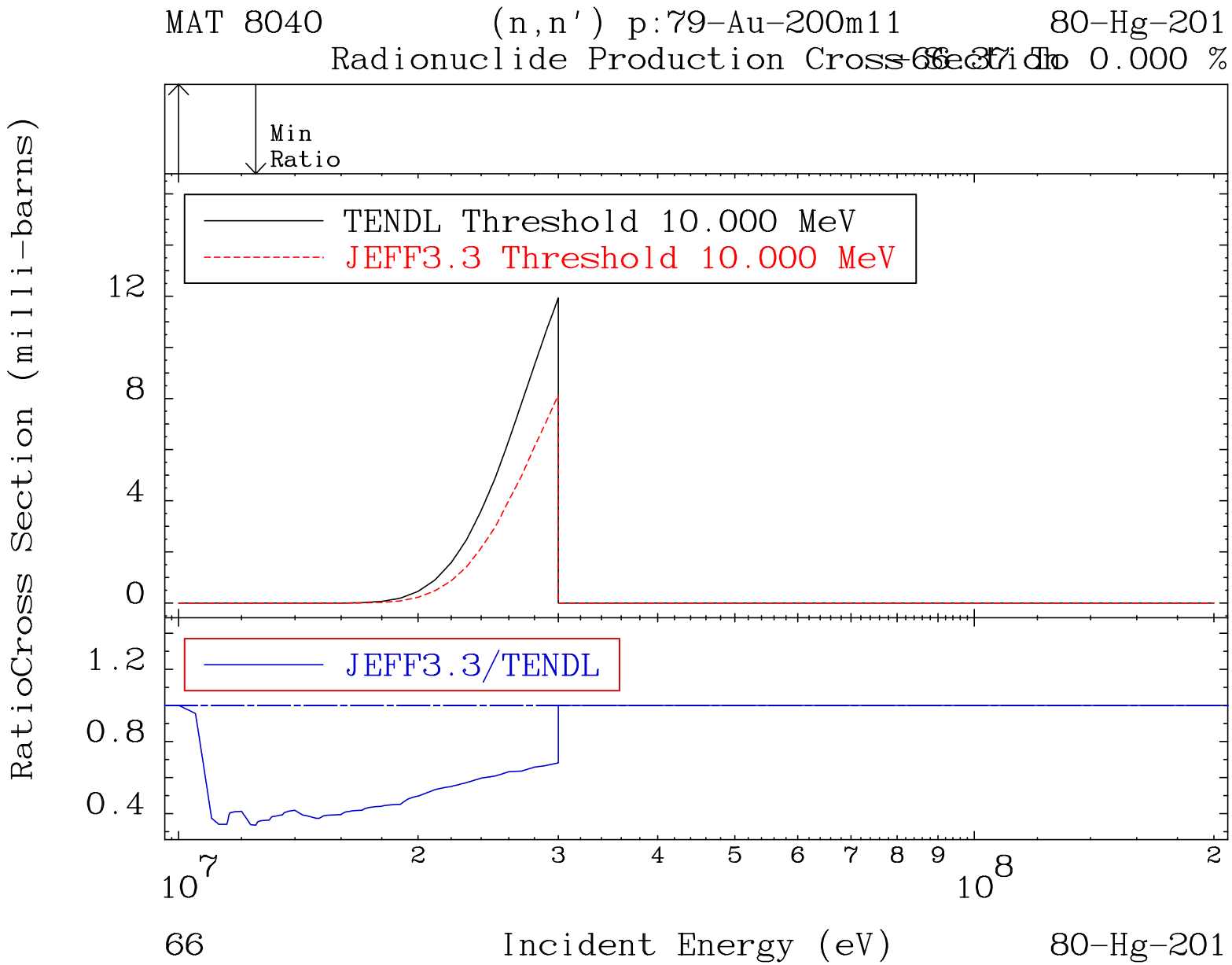

MAT 8040
(n,3n):80-Hg-199g
80-Hg-201
Radionuclide Production Cross Section To 588.1 %
Max Ratio
Min Ratio
TENDL Threshold 14.331 MeV
JEFF3.3 Threshold 14.331 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
80-Hg-201

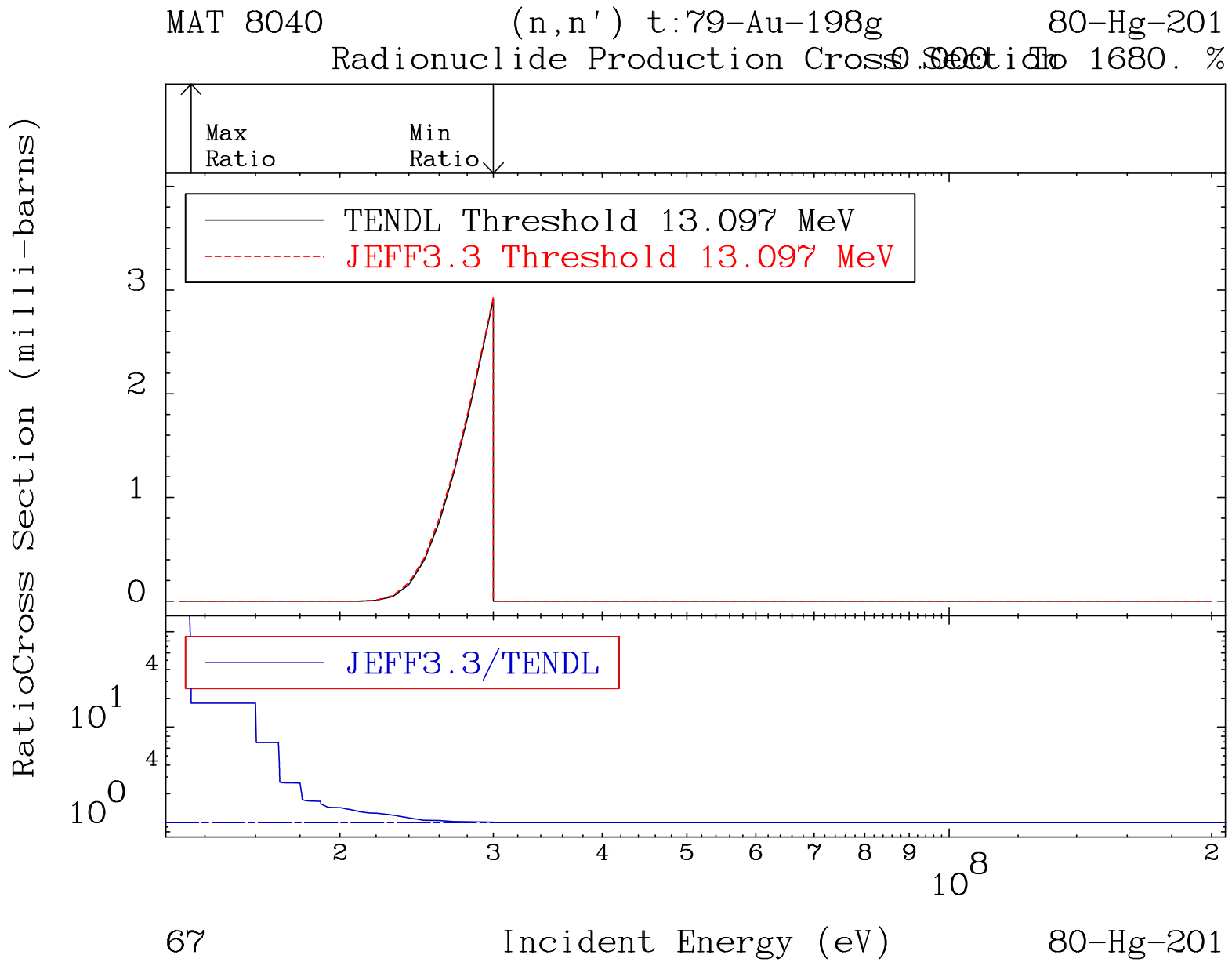

MAT 8040
(n,3n):80-Hg-199m7
80-Hg-201
Radionuclide Production Cross Section
0.000 To 1008. %
Max Ratio
Min Ratio
TENDL Threshold 14.866 MeV
JEFF3.3 Threshold 14.866 MeV
Cross Section (barns)
1.2
0.8
0.4
0.0
JEFF3.3/TENDL
Ratio
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
80-Hg-201

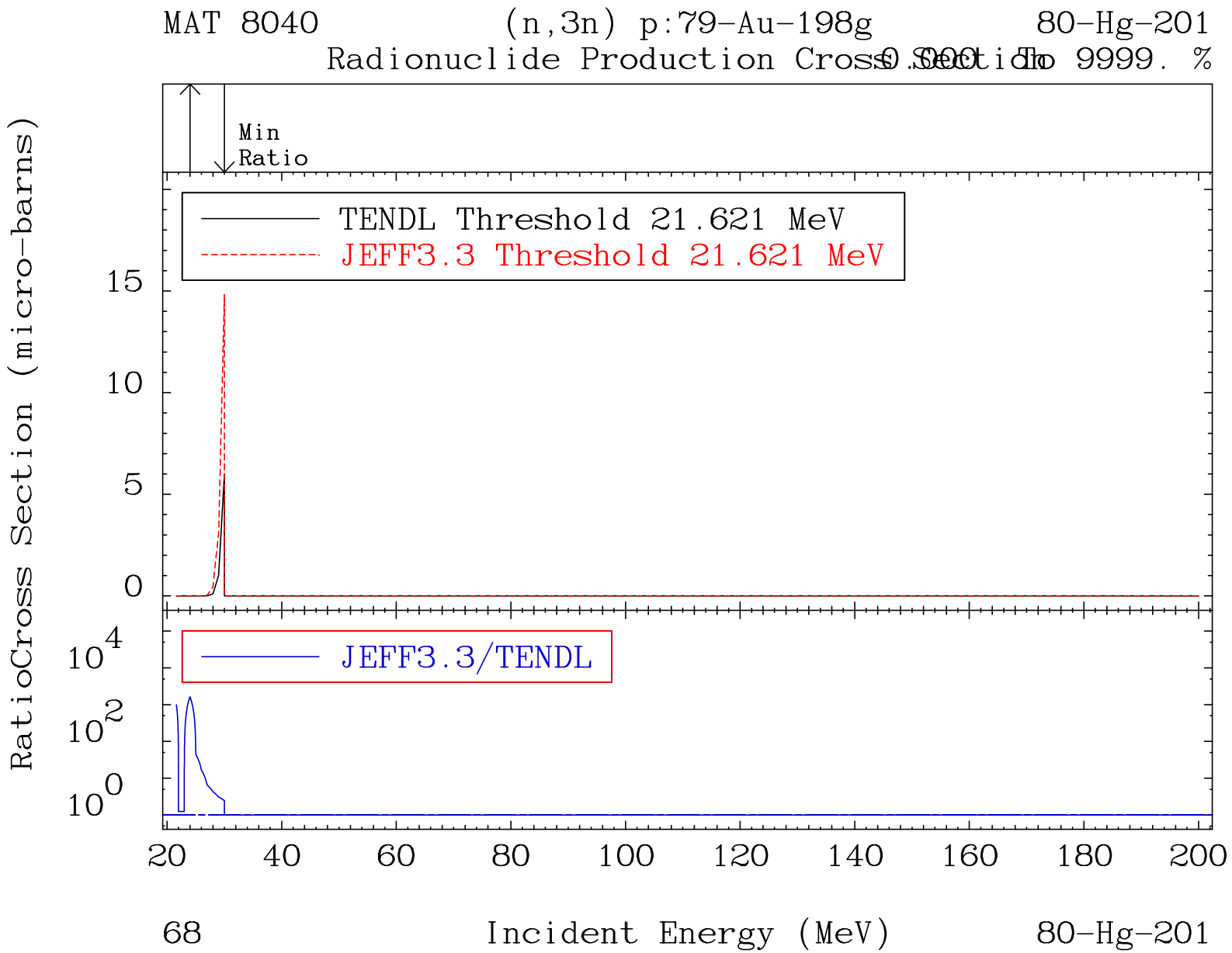

MAT 8040
(n,3n) α:78-Pt-195g
80-Hg-201
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.504 MeV
JEFF3.3 Threshold 13.501 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
63
80-Hg-201

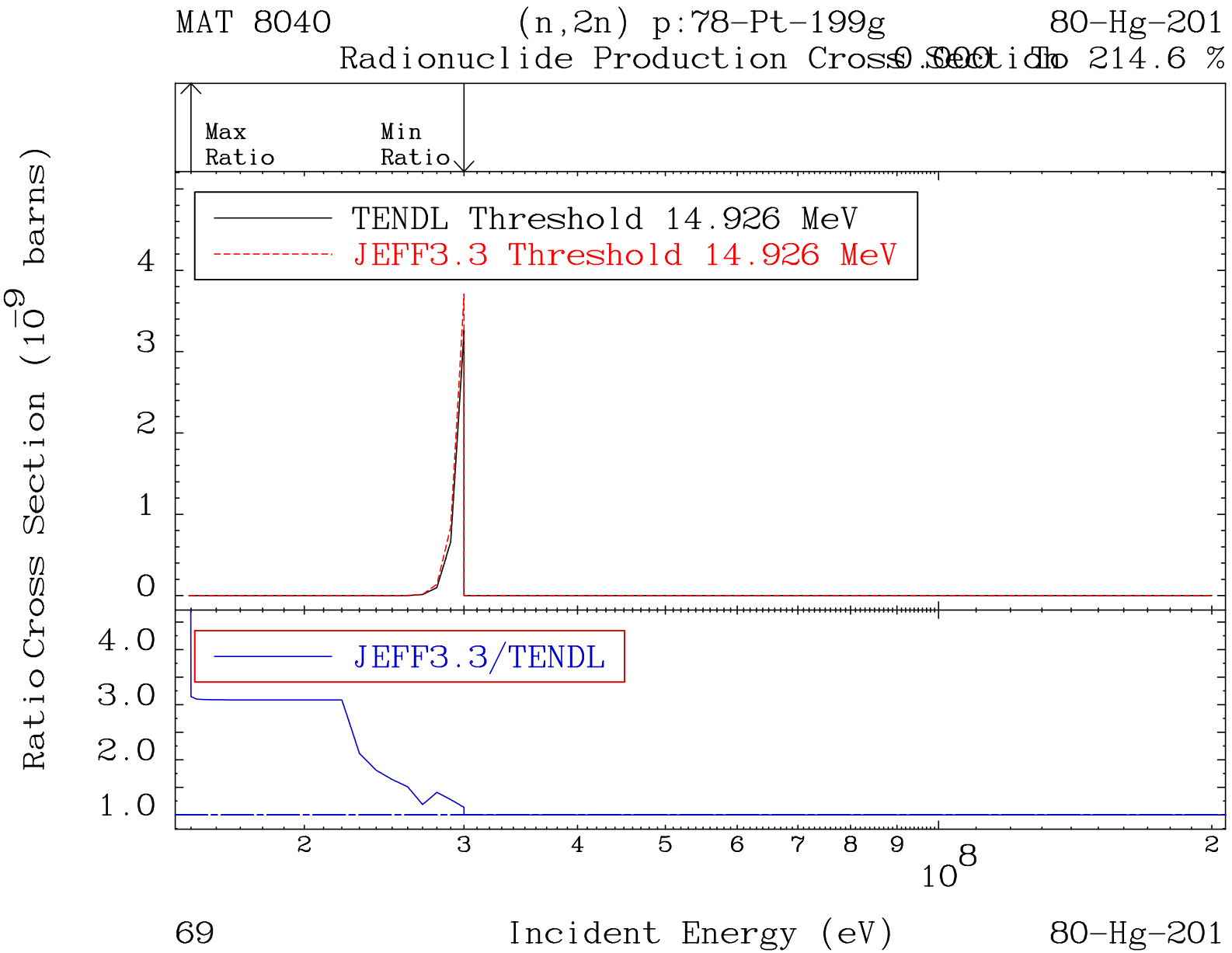

MAT 8040
(n,3n) α:78-Pt-195m7
80-Hg-201
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.764 MeV
JEFF3.3 Threshold 13.762 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
10
8
6
4
2
0
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
80-Hg-201

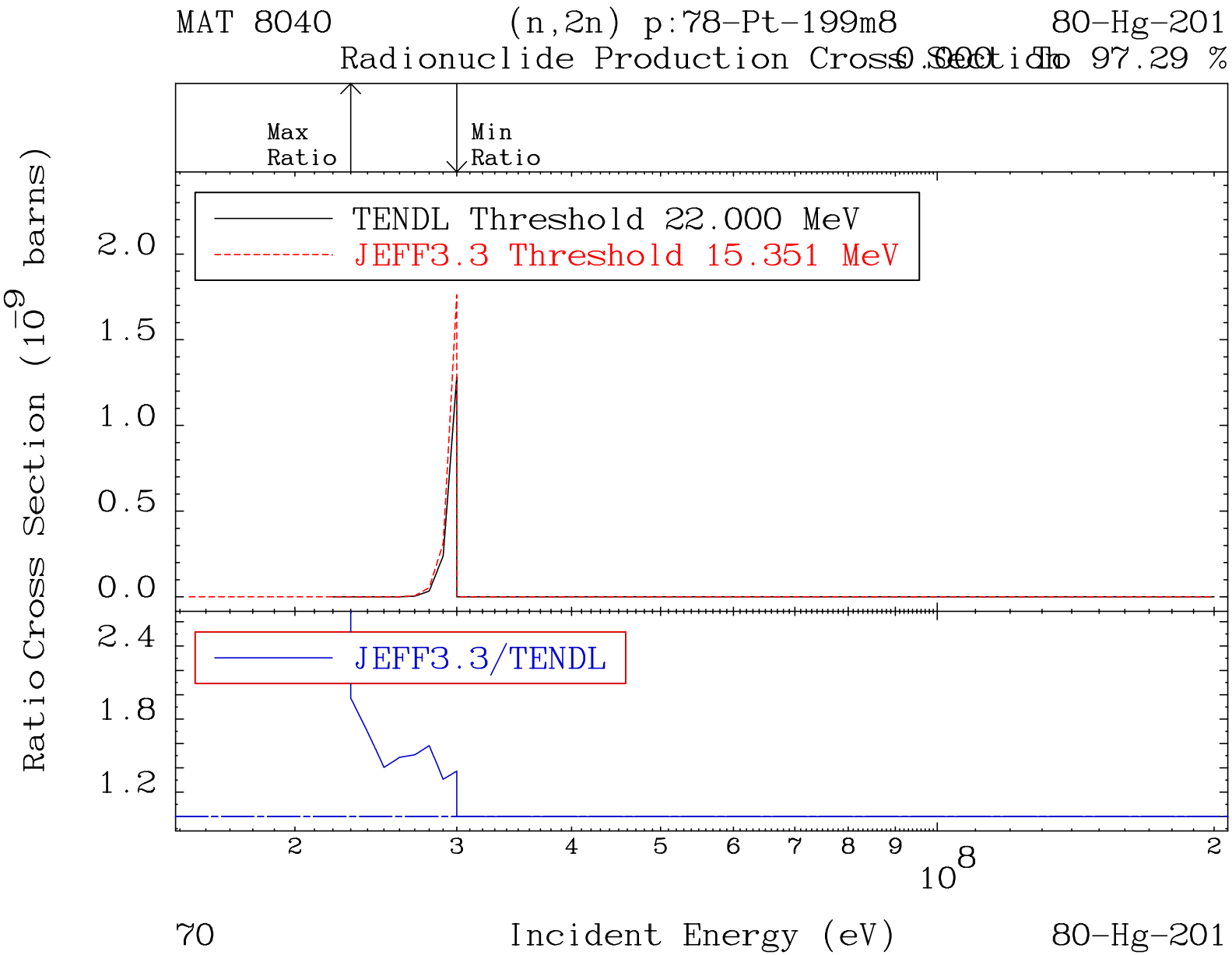

MAT 8040
(n,n') p:79-Au-200g
80-Hg-201
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 7.7501 MeV
JEFF3.3 Threshold 7.7501 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65
80-Hg-201

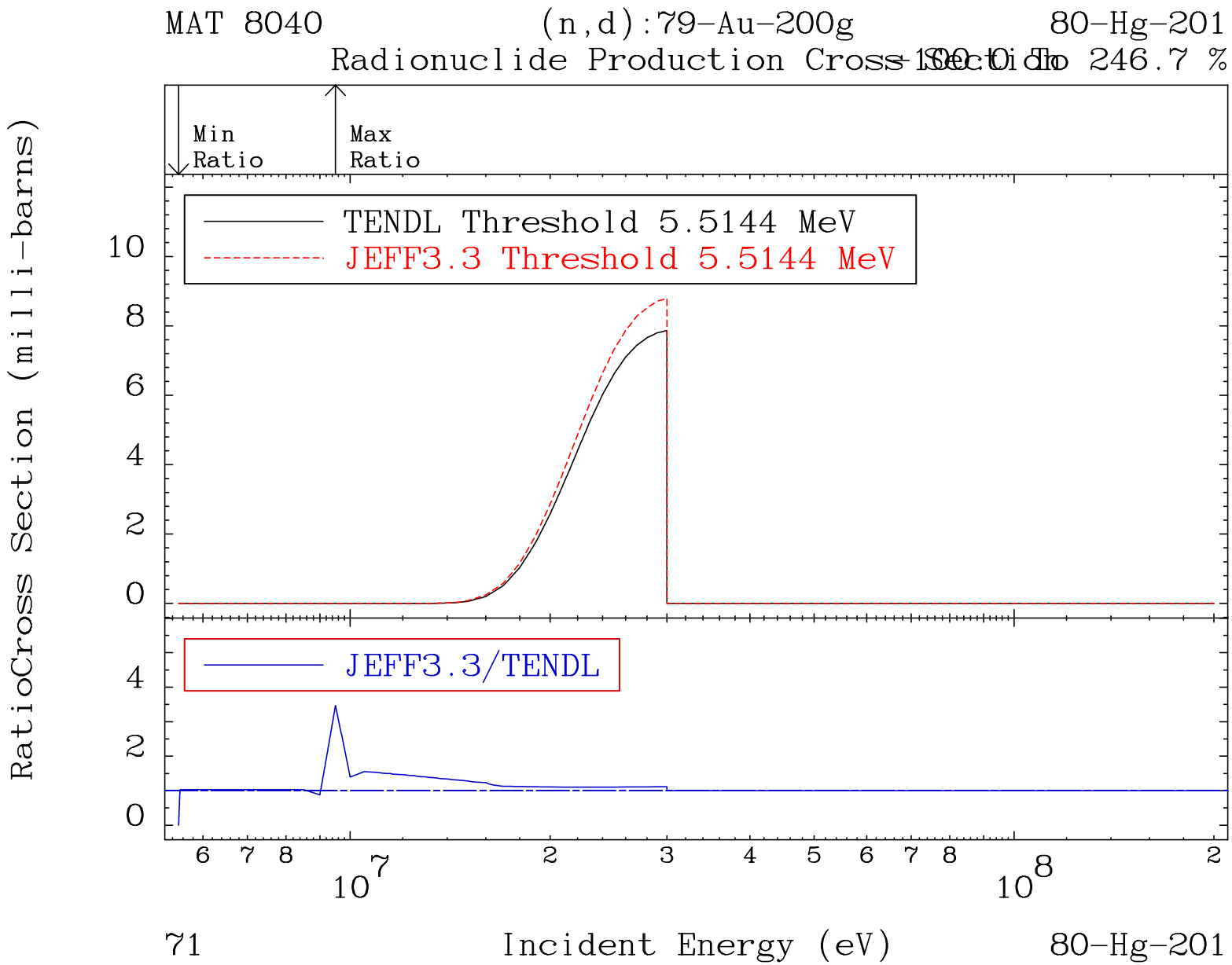

MAT 8040
(n,n') p:79-Au-200m11
80-Hg-201
Radionuclide Production Cross-Section To 0.000 %
Min
Ratio
TENDL Threshold 10.000 MeV
JEFF3.3 Threshold 10.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
12
8
4
0
1.2
0.8
0.4
10^7
2
3
4
5
6
7
8
9
10^8
2
66
Incident Energy (eV)
80-Hg-201

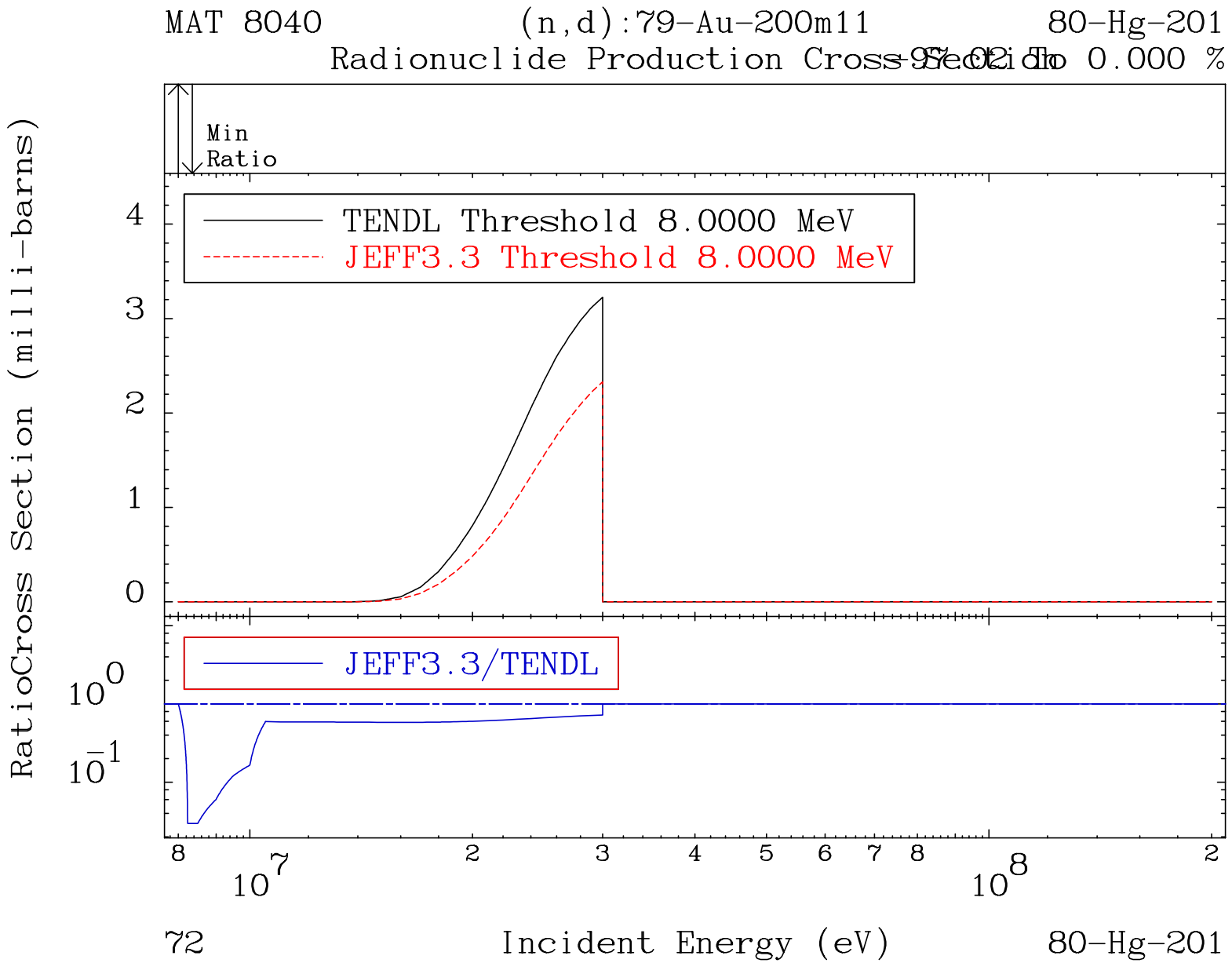

MAT 8040
(n,n') t:79-Au-198g
80-Hg-201
Radionuclide Production Cross Section
0.000 To 1680. %
Max Ratio
Min Ratio
TENDL Threshold 13.097 MeV
JEFF3.3 Threshold 13.097 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
67
80-Hg-201

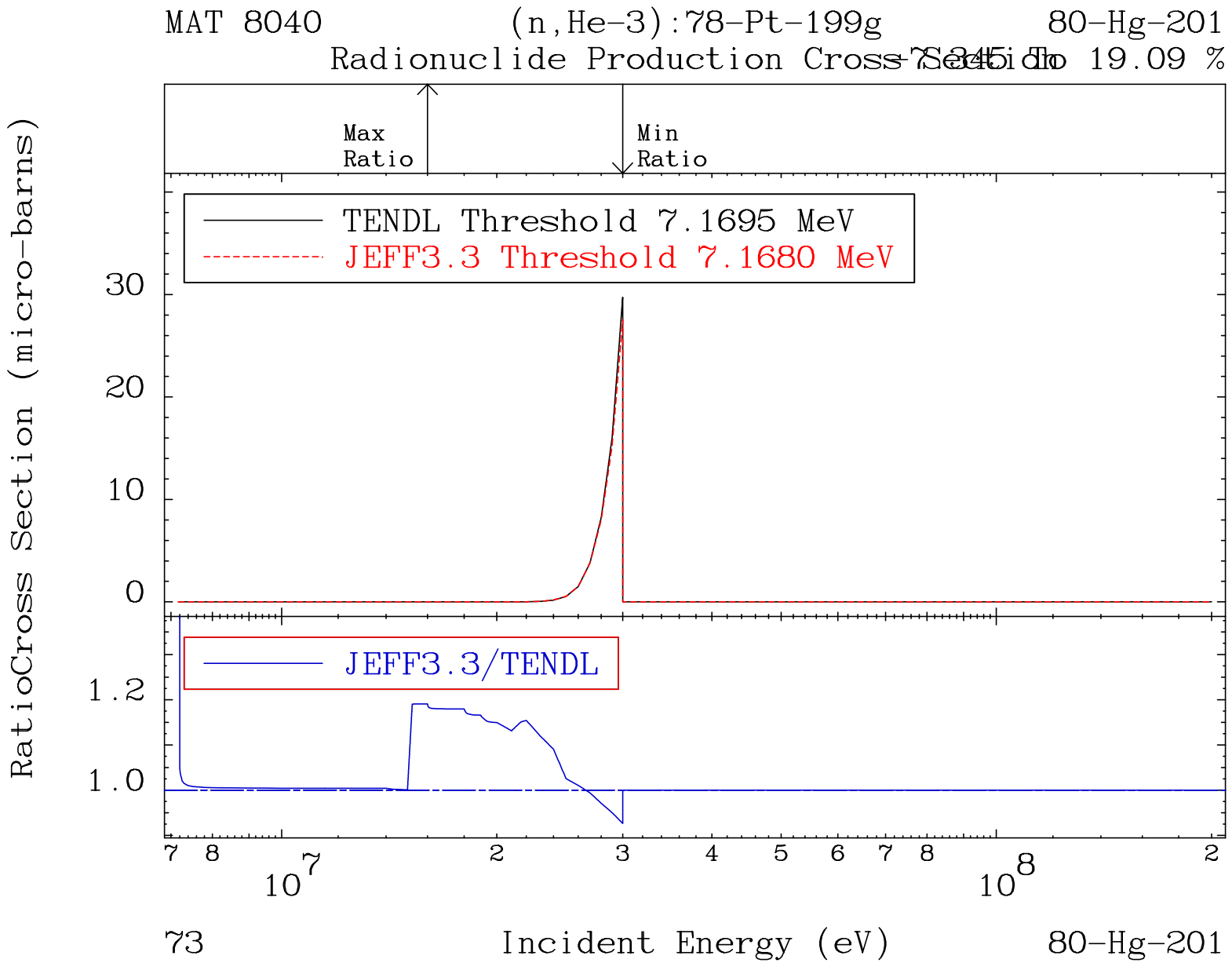

MAT 8040
(n,3n) p:79-Au-198g
80-Hg-201
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 21.621 MeV
JEFF3.3 Threshold 21.621 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
15
10
5
0
10^4
10^2
10^0
20
40
60
80
100
120
140
160
180
200
68
Incident Energy (MeV)
80-Hg-201

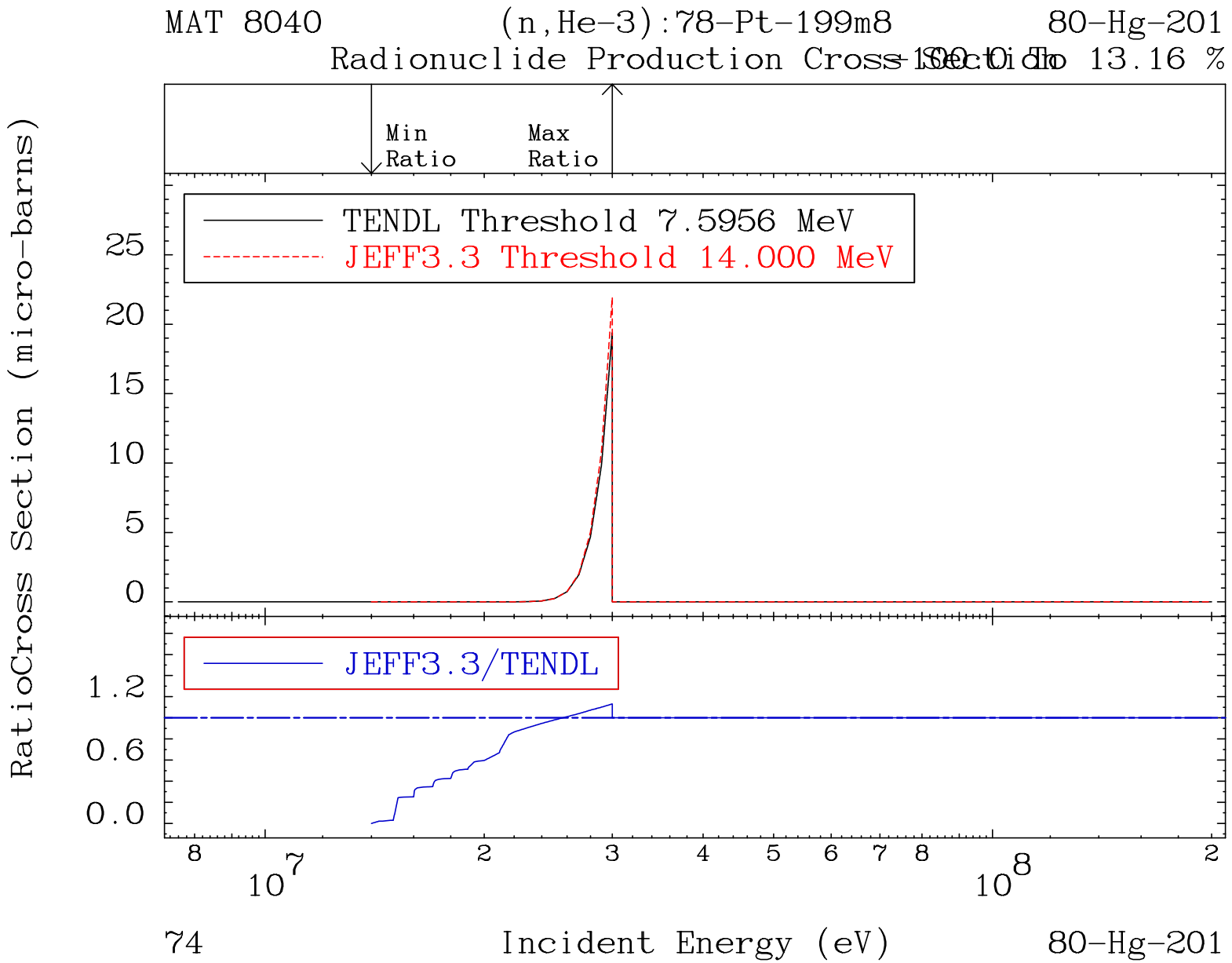

MAT 8040
(n,2n) p:78-Pt-199g
80-Hg-201
Radionuclide Production Cross Section
0.000 To 214.6 %
Max Ratio
Min Ratio
TENDL Threshold 14.926 MeV
JEFF3.3 Threshold 14.926 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
Incident Energy (eV)
10^8
69
80-Hg-201

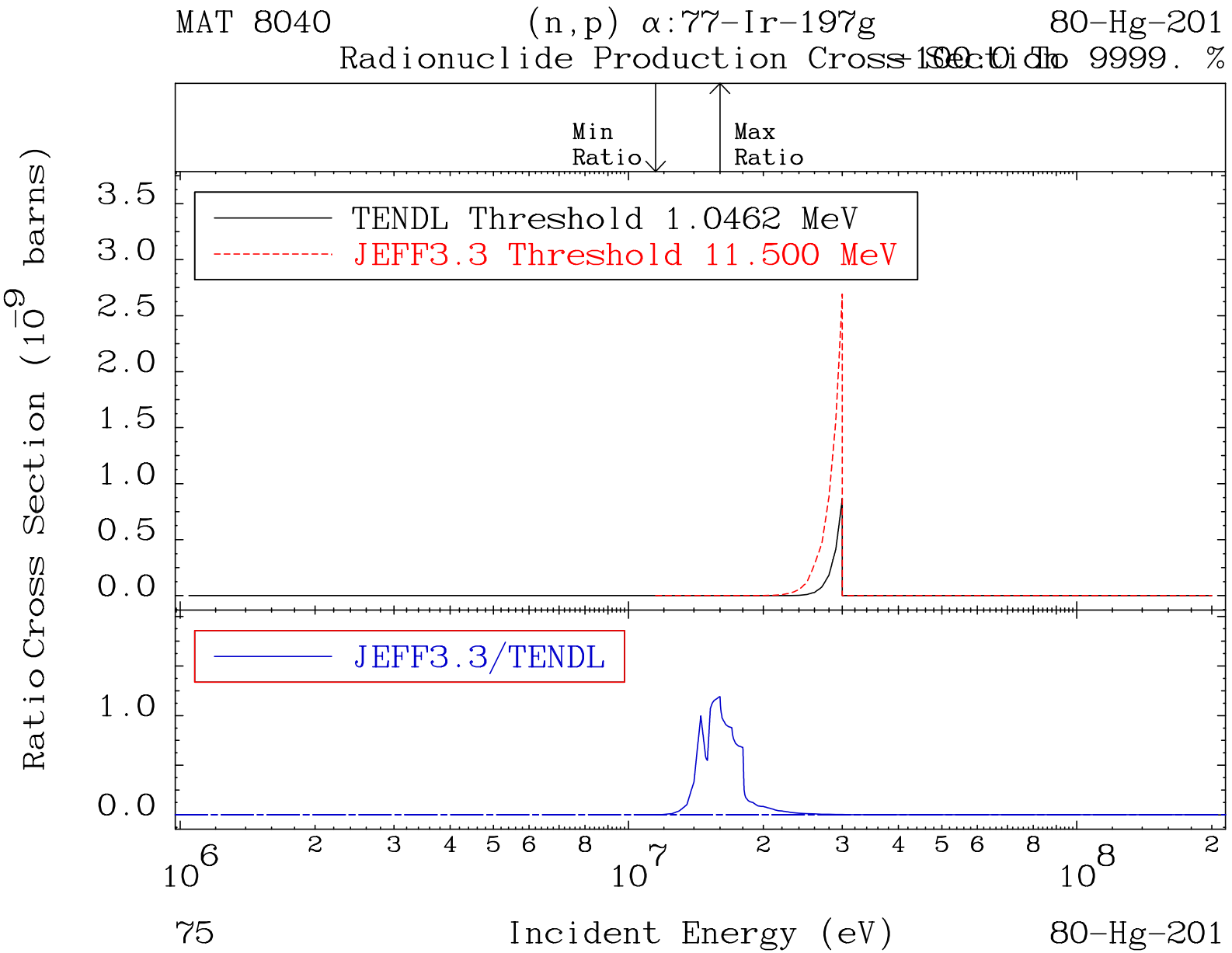

MAT 8040
(n,2n) p:78-Pt-199m8
80-Hg-201
Radionuclide Production Cross Section
0.000 To 97.29 %
Max Ratio
Min Ratio
TENDL Threshold 22.000 MeV
JEFF3.3 Threshold 15.351 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
2.0
1.5
1.0
0.5
0.0
2.4
1.8
1.2
2
3
4
5
6
7
8
9
10^8
2
70
Incident Energy (eV)
80-Hg-201

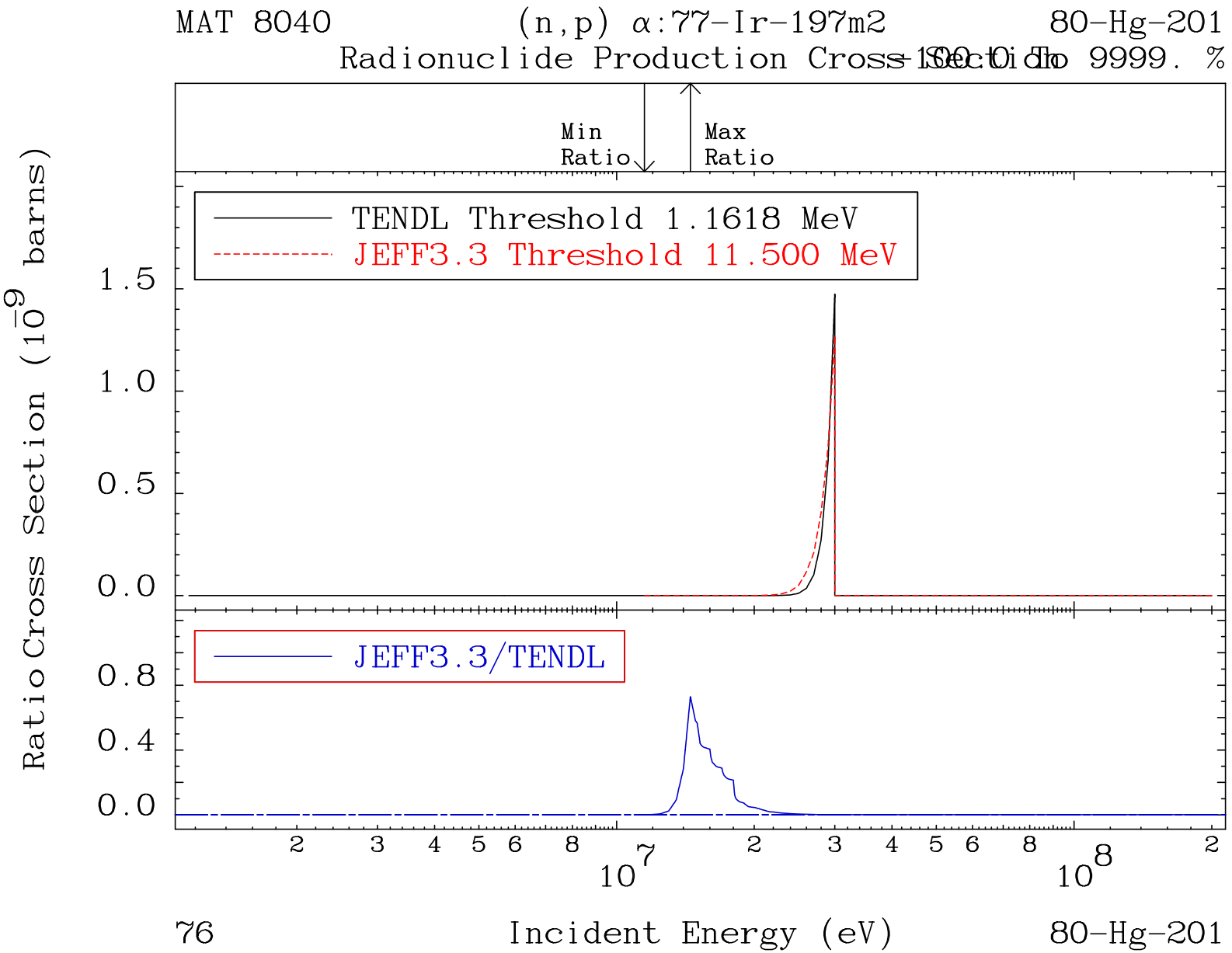

MAT 8040
(n,d):79-Au-200g
80-Hg-201
Radionuclide Production Cross Section To 246.7 %
Min Ratio
Max Ratio
TENDL Threshold 5.5144 MeV
JEFF3.3 Threshold 5.5144 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
80-Hg-201


MAT 8040
(n,d):79-Au-200m11
80-Hg-201
Radionuclide Production Cross-Section
Min
Ratio
TENDL Threshold 8.0000 MeV
JEFF3.3 Threshold 8.0000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
72
80-Hg-201


MAT 8040
(n,He-3):78-Pt-199g
80-Hg-201
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 7.1695 MeV
JEFF3.3 Threshold 7.1680 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
73
80-Hg-201


MAT 8040
(n,He-3):78-Pt-199m8
80-Hg-201
Radionuclide Production Cross Section
Isotopic Abundance 13.16 %
Min Ratio
Max Ratio
TENDL Threshold 7.5956 MeV
JEFF3.3 Threshold 14.000 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
25
20
15
10
5
0
1.2
0.6
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
74
Incident Energy (eV)
80-Hg-201


MAT 8040
(n,p) α:77-Ir-197g
80-Hg-201
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 1.0462 MeV
JEFF3.3 Threshold 11.500 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
75
80-Hg-201


MAT 8040
(n,p) α:77-Ir-197m2
80-Hg-201
Radionuclide Production Cross Section
1.00 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1618 MeV
JEFF3.3 Threshold 11.500 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
1.5
1.0
0.5
0.0
0.8
0.4
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
76
Incident Energy (eV)
80-Hg-201