Program Complot
(Version 2021-1)
by
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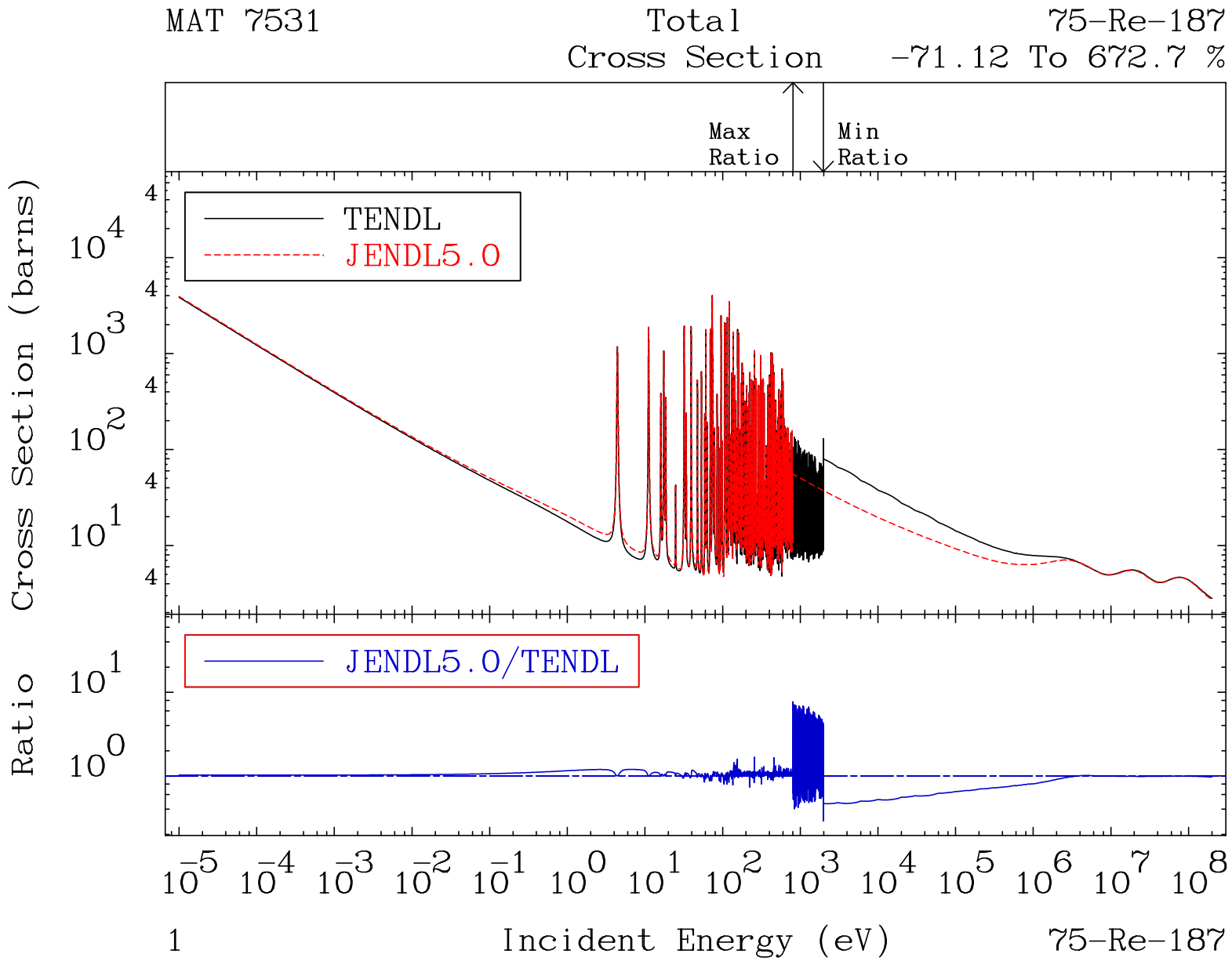
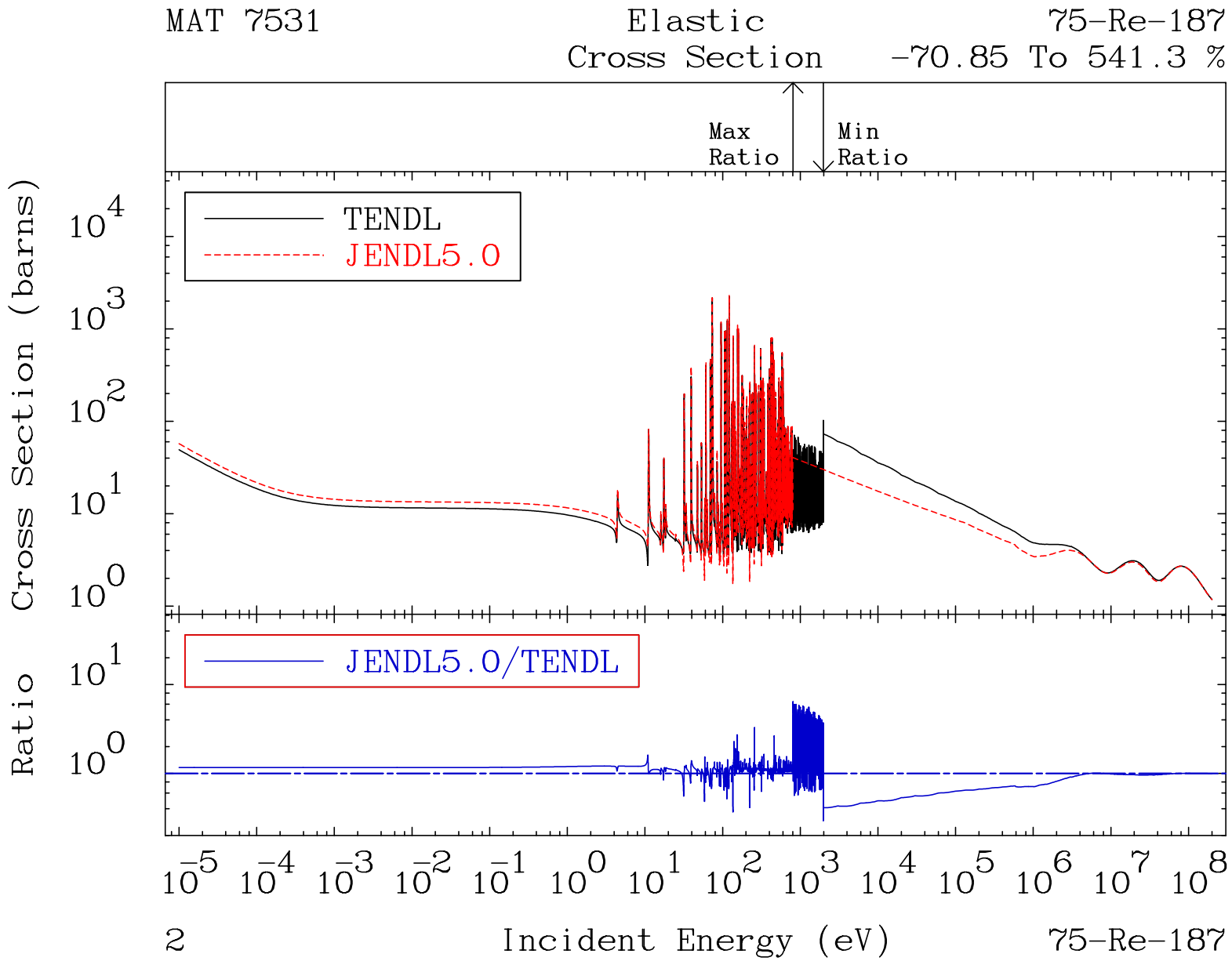
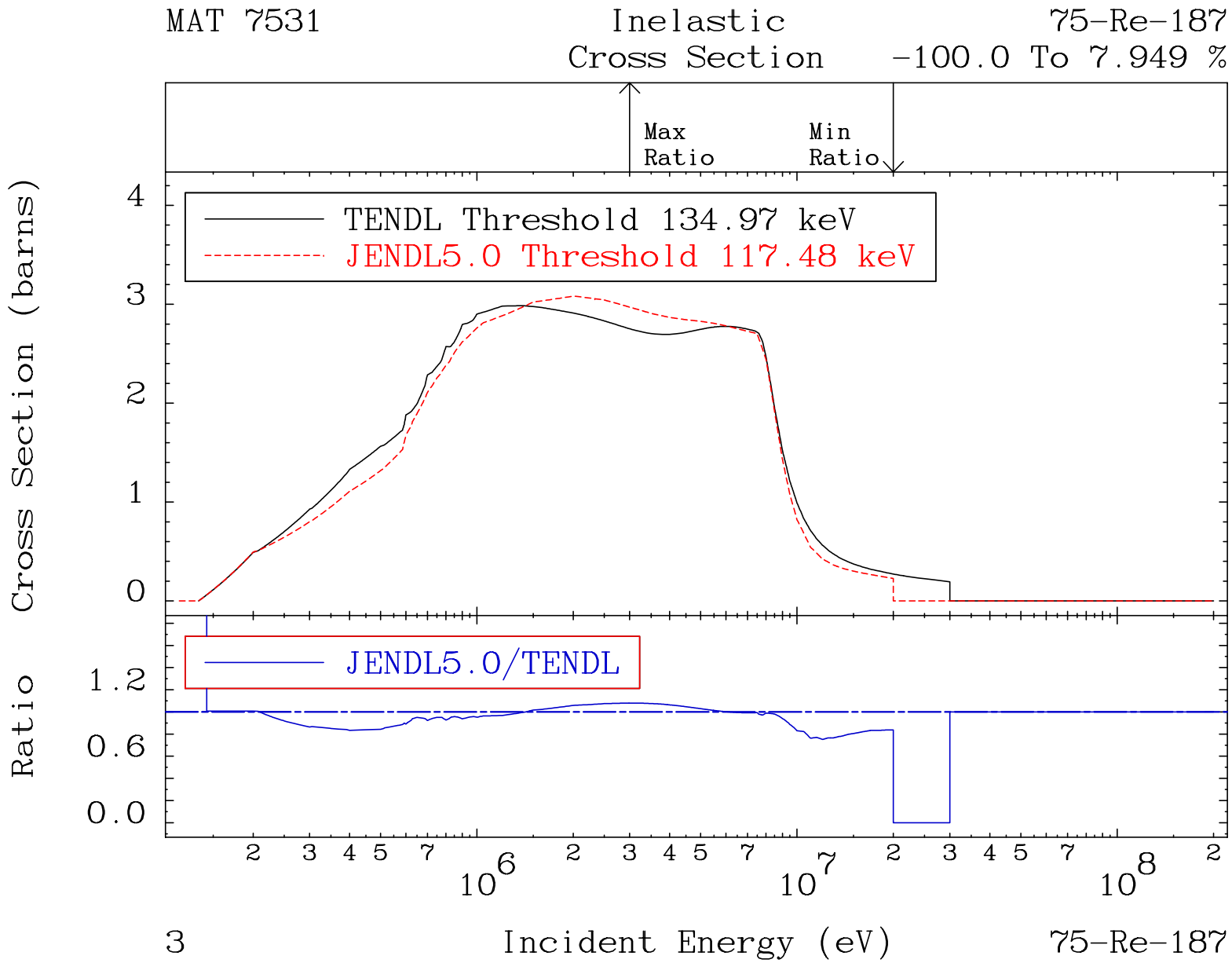
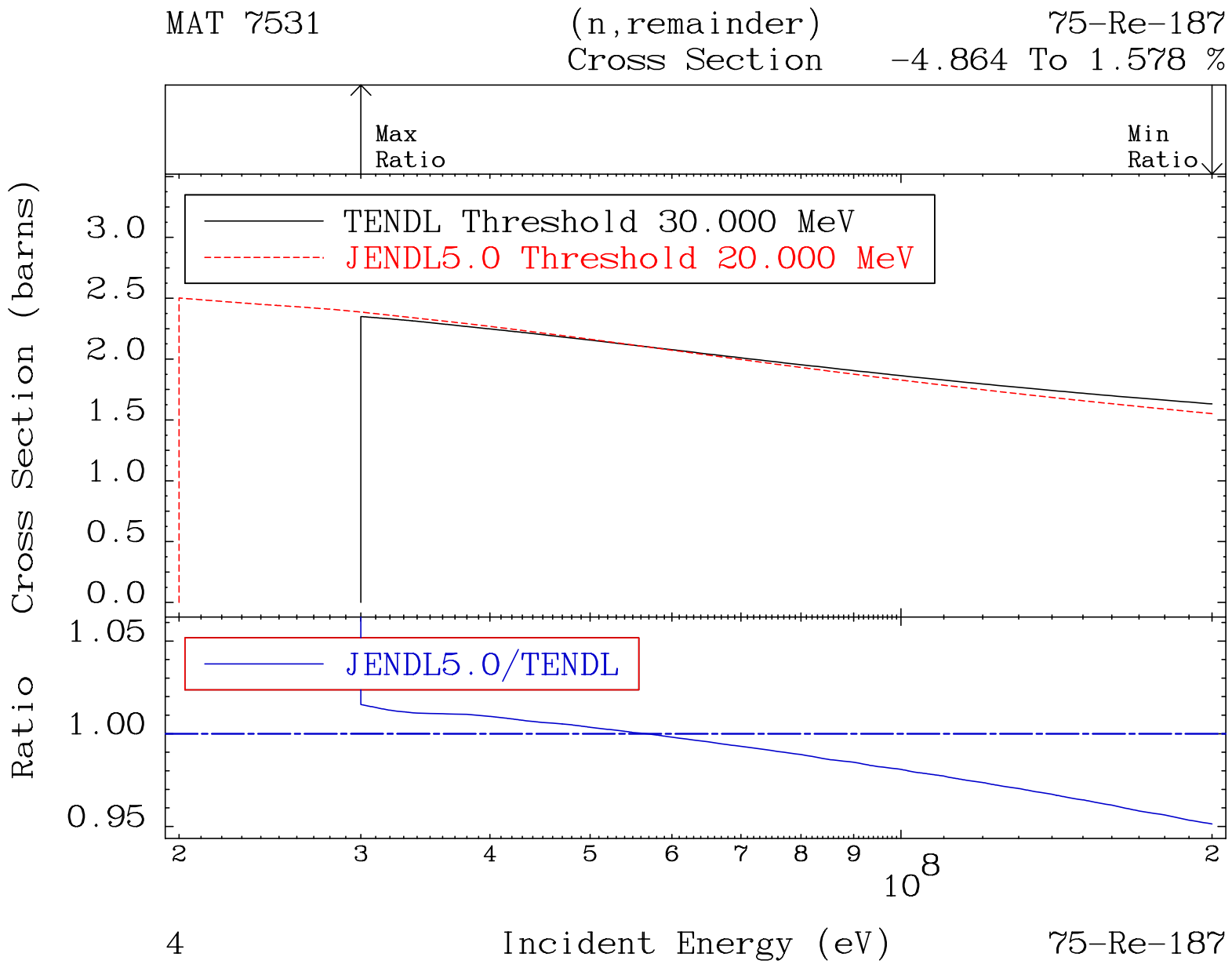
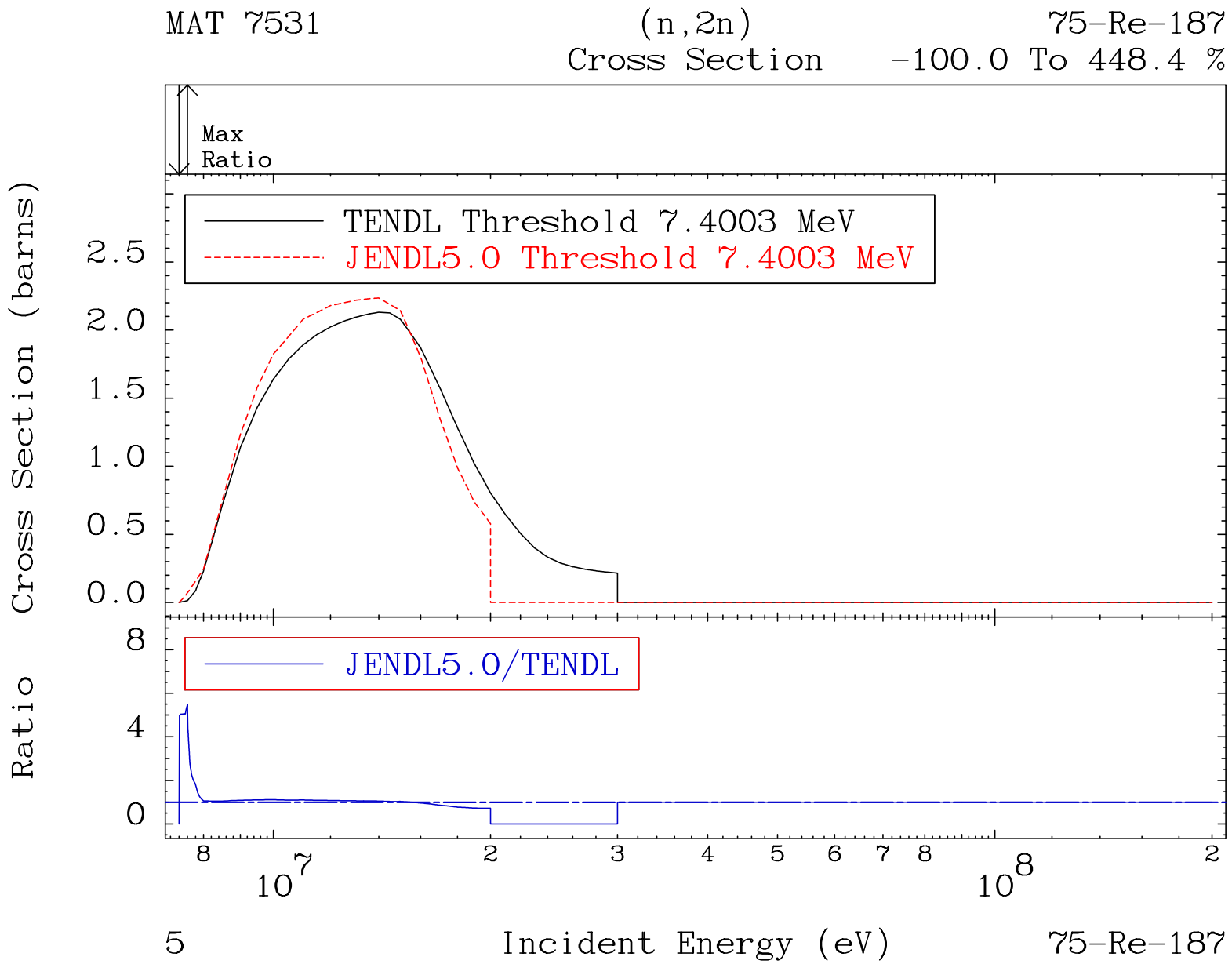
Press Mouse Button to Start

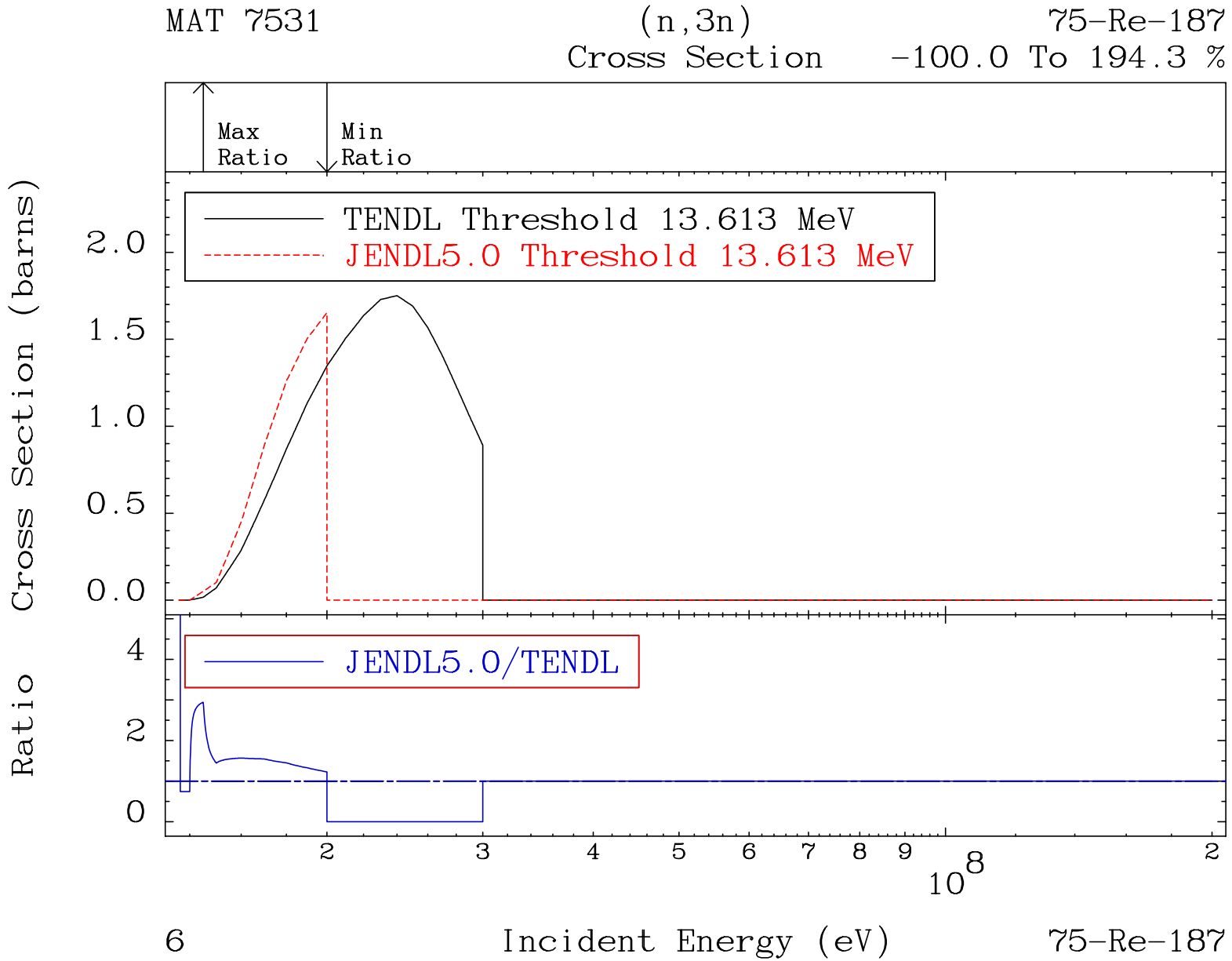

MAT 7531
Total
Cross Section
75-Re-187
-71.12 To 672.7 %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
75-Re-187

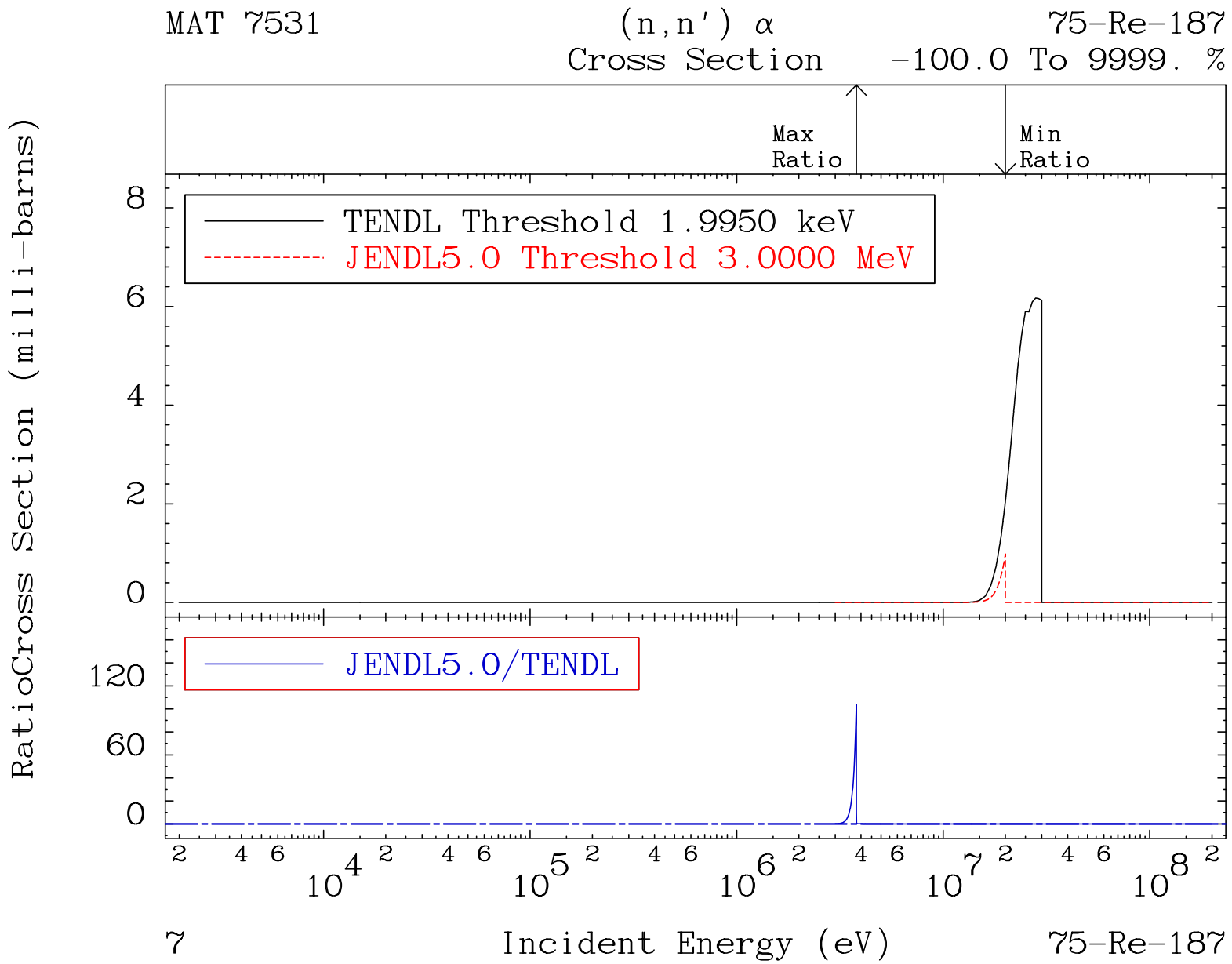

MAT 7531
Elastic
Cross Section
75-Re-187
-70.85 To 541.3 %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
75-Re-187

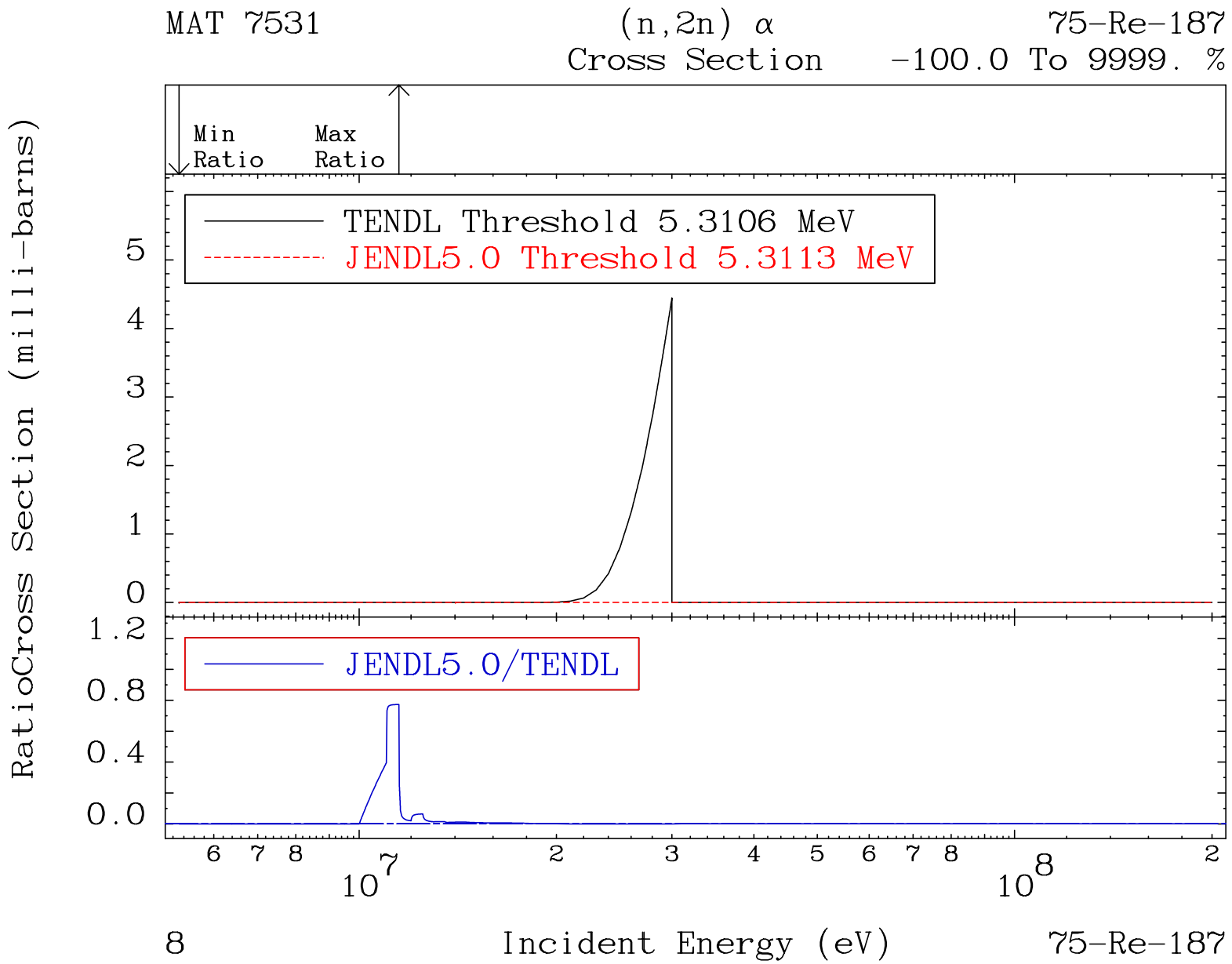

MAT 7531
Inelastic
Cross Section
75-Re-187
-100.0 To 7.949 %
Max
Ratio
Min
Ratio
TENDL Threshold 134.97 keV
JENDL5.0 Threshold 117.48 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
75-Re-187

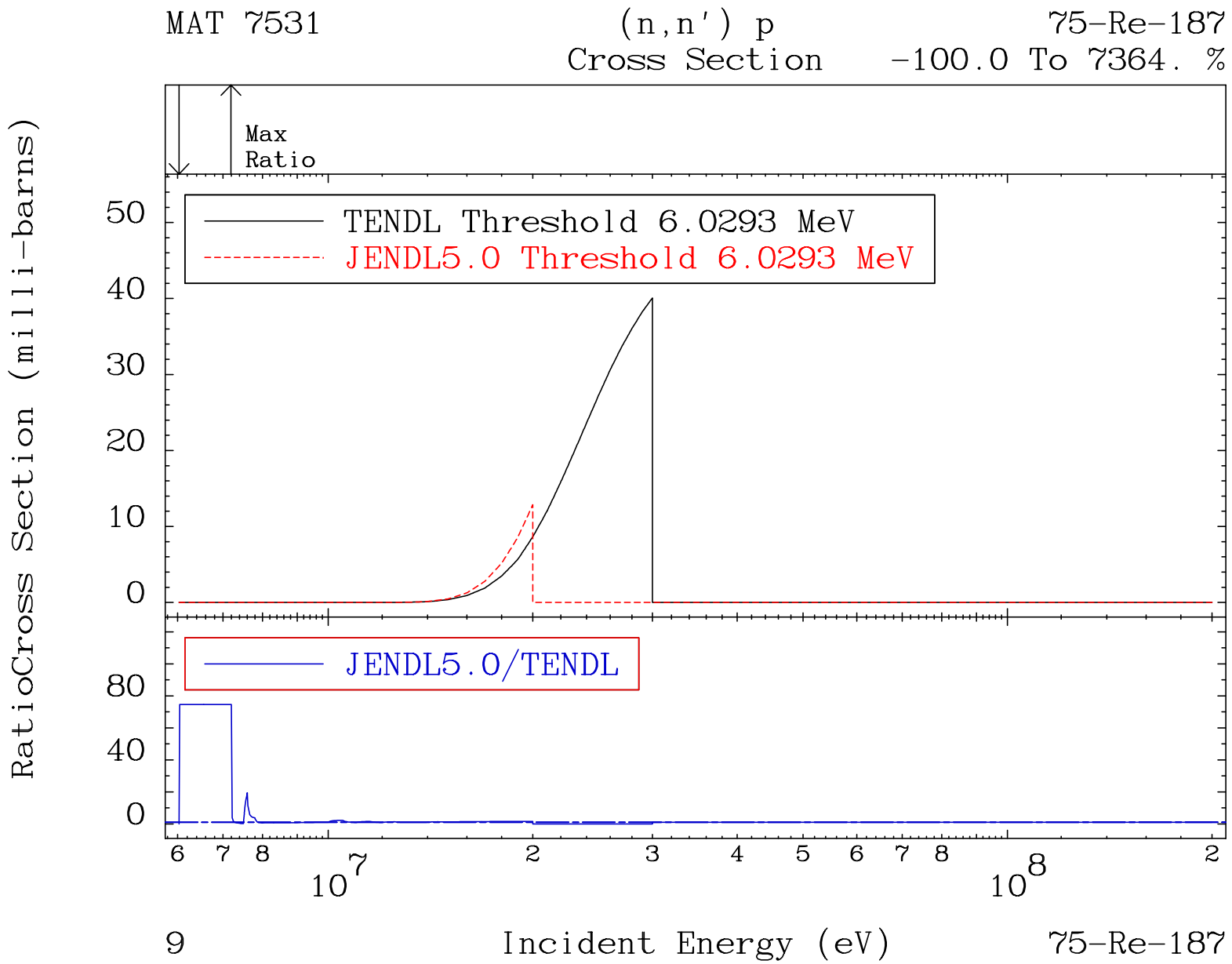

MAT 7531
(n,remainder)
Cross Section
75-Re-187
-4.864 To 1.578 %
Max Ratio
Min Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.05
1.00
0.95
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
75-Re-187

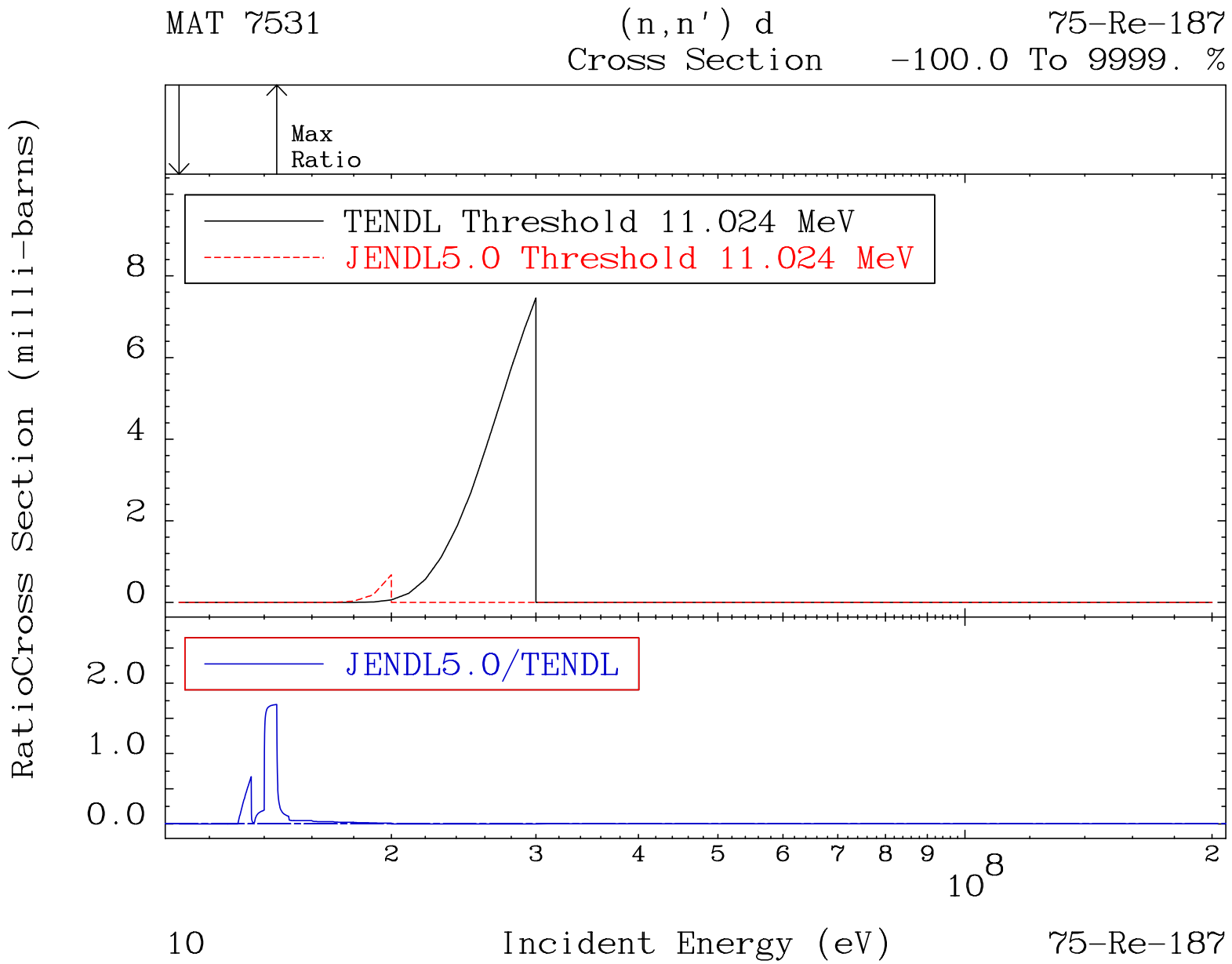

MAT 7531
(n,2n)
Cross Section
75-Re-187
-100.0 To 448.4 %
Max
Ratio
TENDL Threshold 7.4003 MeV
JENDL5.0 Threshold 7.4003 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
8
4
0
8
2
3
4
5
6
7
8
2
10^7
10^8
5
Incident Energy (eV)
75-Re-187

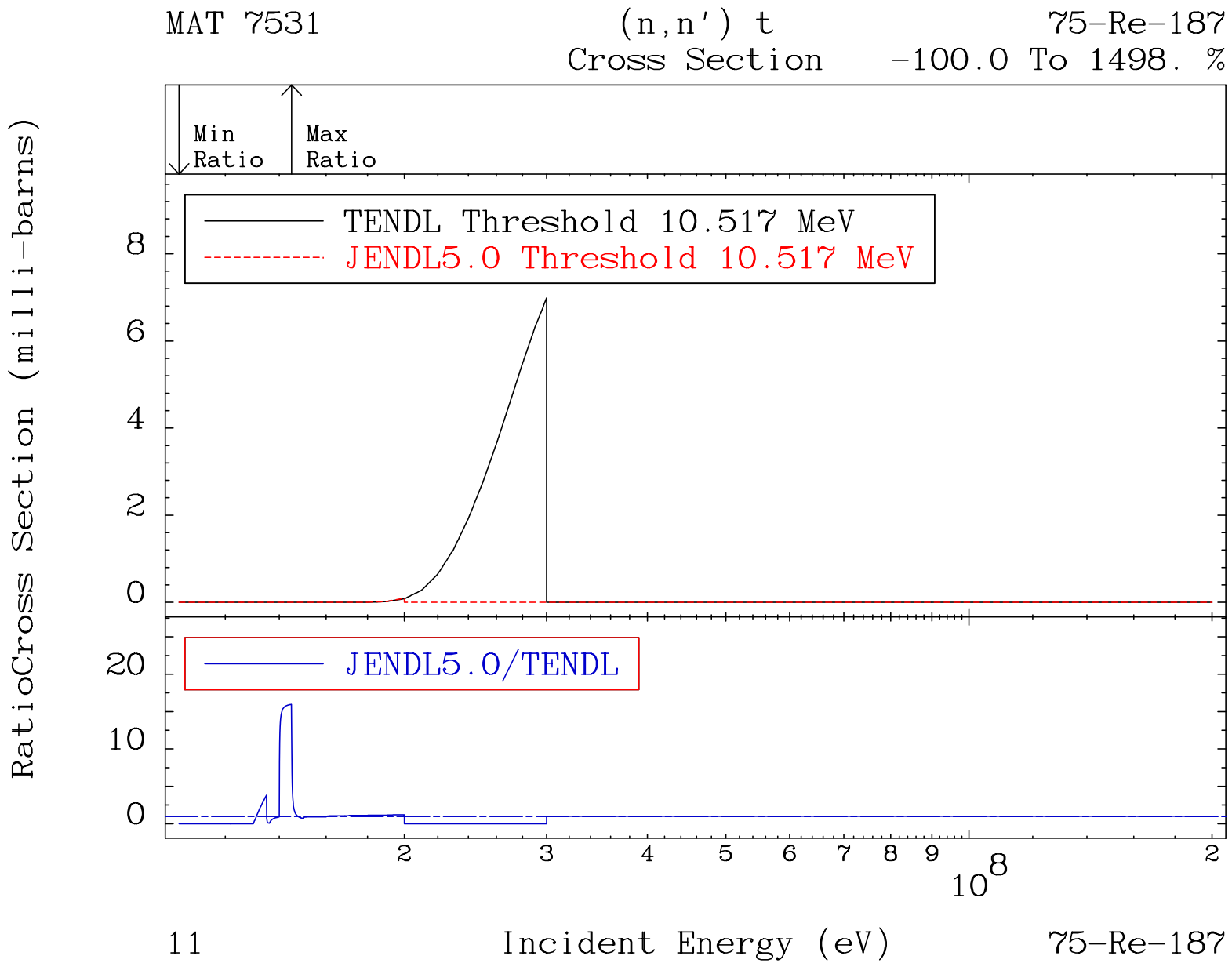

MAT 7531
(n,3n)
Cross Section
75-Re-187
-100.0 To 194.3 %
Max Ratio
Min Ratio
TENDL Threshold 13.613 MeV
JENDL5.0 Threshold 13.613 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
Incident Energy (eV)
6
75-Re-187

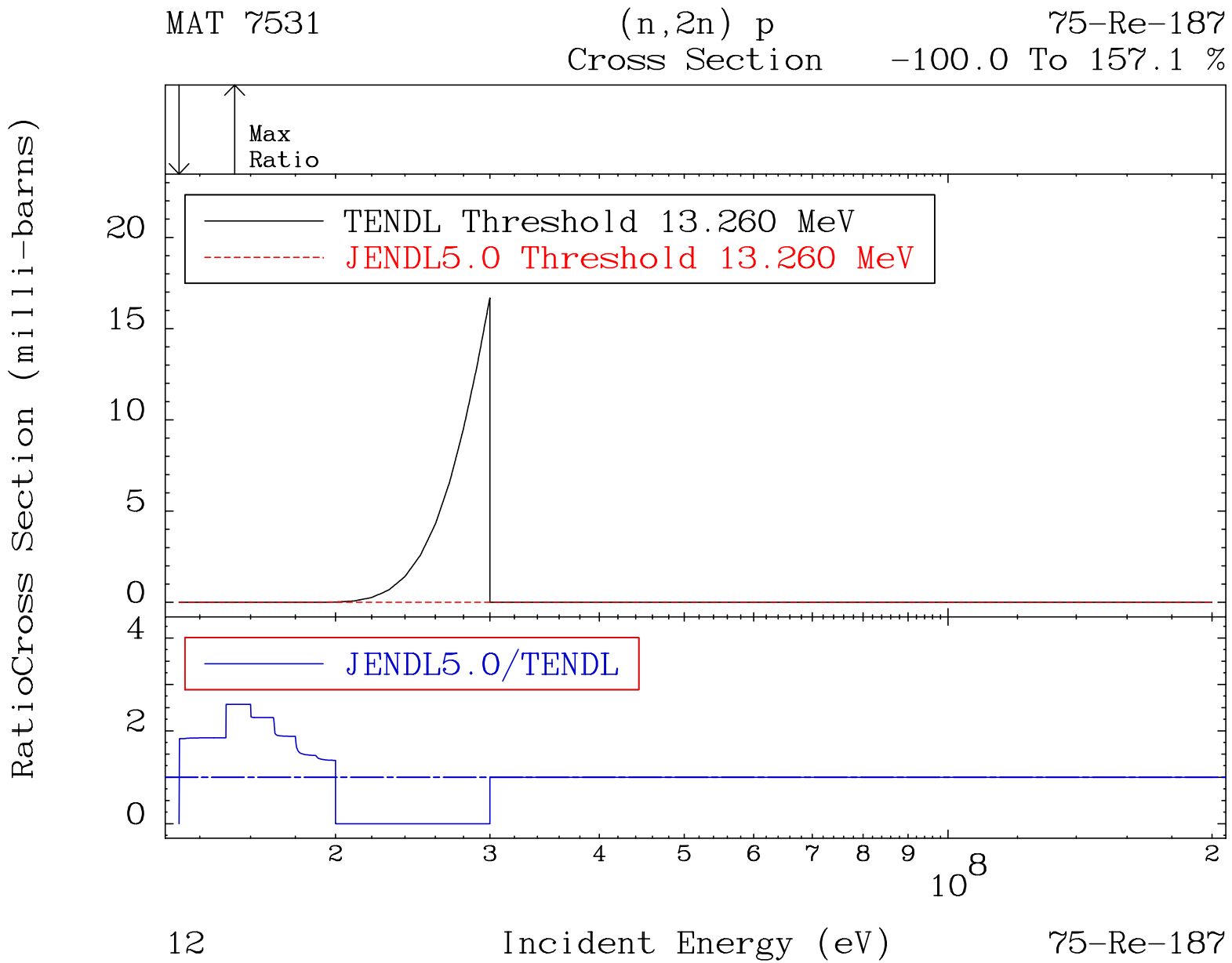

MAT 7531
(n,n') α
Cross Section
75-Re-187
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.9950 keV
JENDL5.0 Threshold 3.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
75-Re-187
7

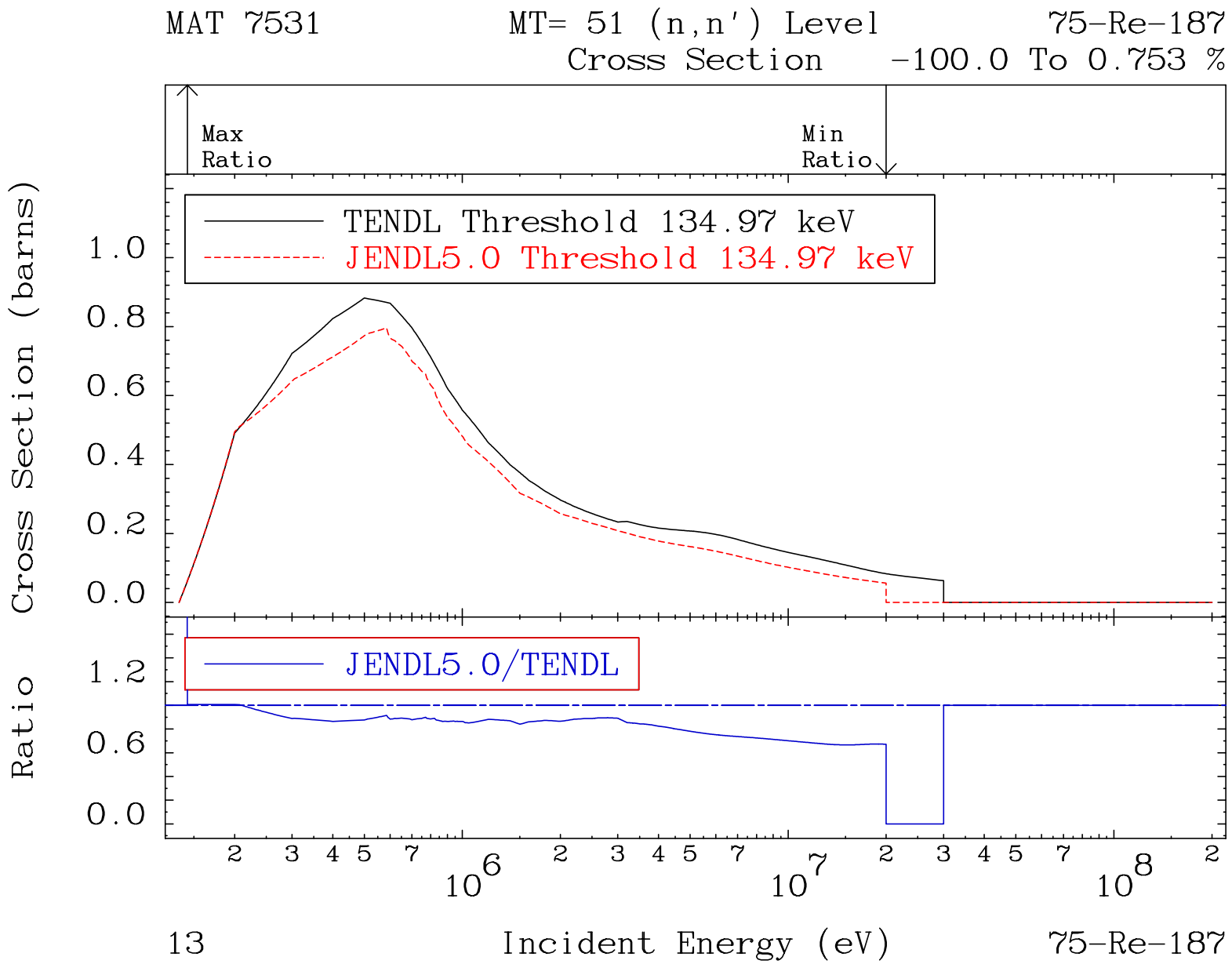

MAT 7531
(n,2n) α
75-Re-187
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.3106 MeV
JENDL5.0 Threshold 5.3113 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
8
75-Re-187

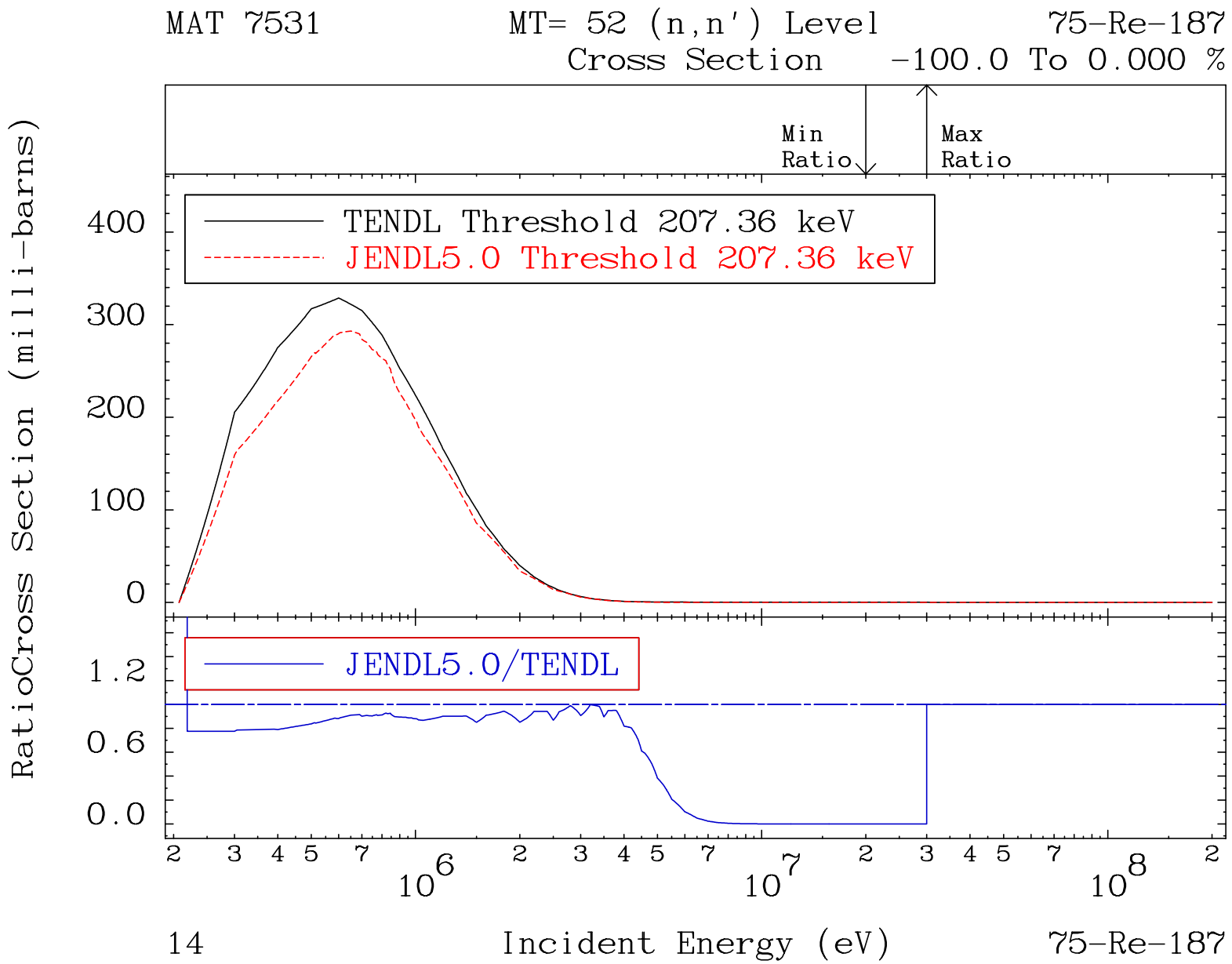

MAT 7531
(n,n') p
Cross Section
75-Re-187
-100.0 To 7364. %
Max
Ratio
TENDL Threshold 6.0293 MeV
JENDL5.0 Threshold 6.0293 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
80
40
0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
9
75-Re-187

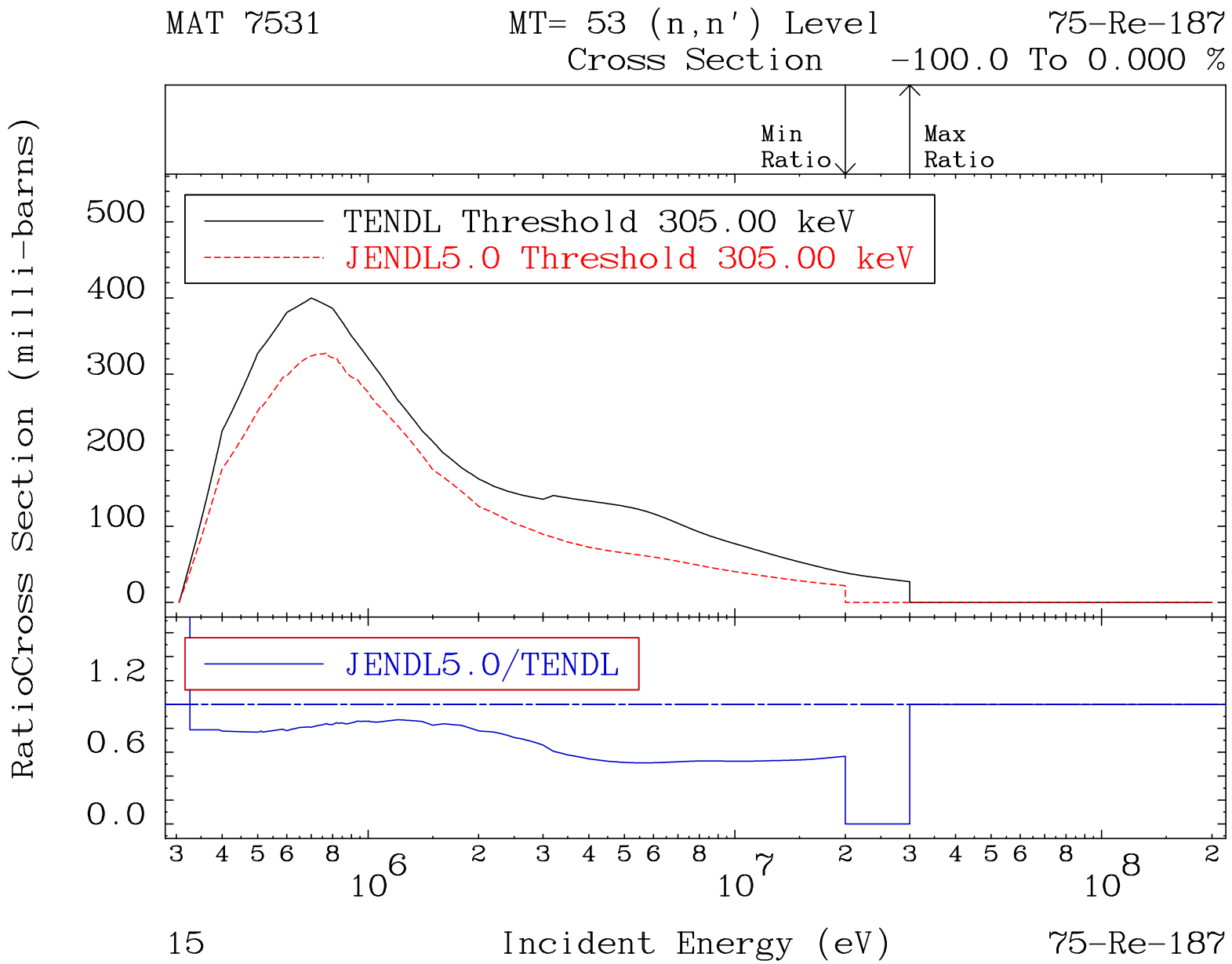

MAT 7531
(n,n') d
Cross Section
75-Re-187
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 11.024 MeV
JENDL5.0 Threshold 11.024 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
75-Re-187

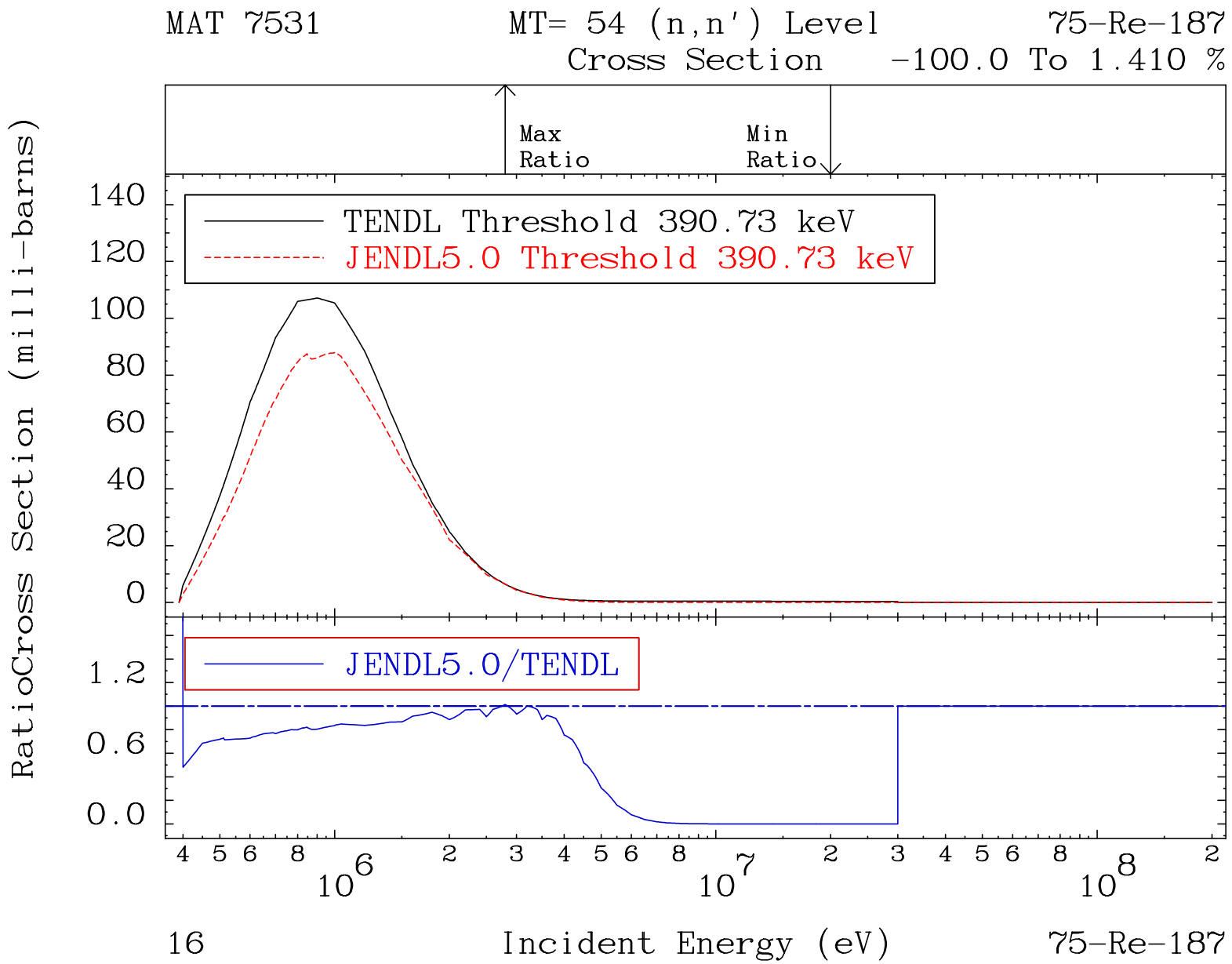

MAT 7531
(n,n') t
75-Re-187
Cross Section
-100.0 To 1498. %
Min Ratio
Max Ratio
TENDL Threshold 10.517 MeV
JENDL5.0 Threshold 10.517 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
20
10
0
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
75-Re-187

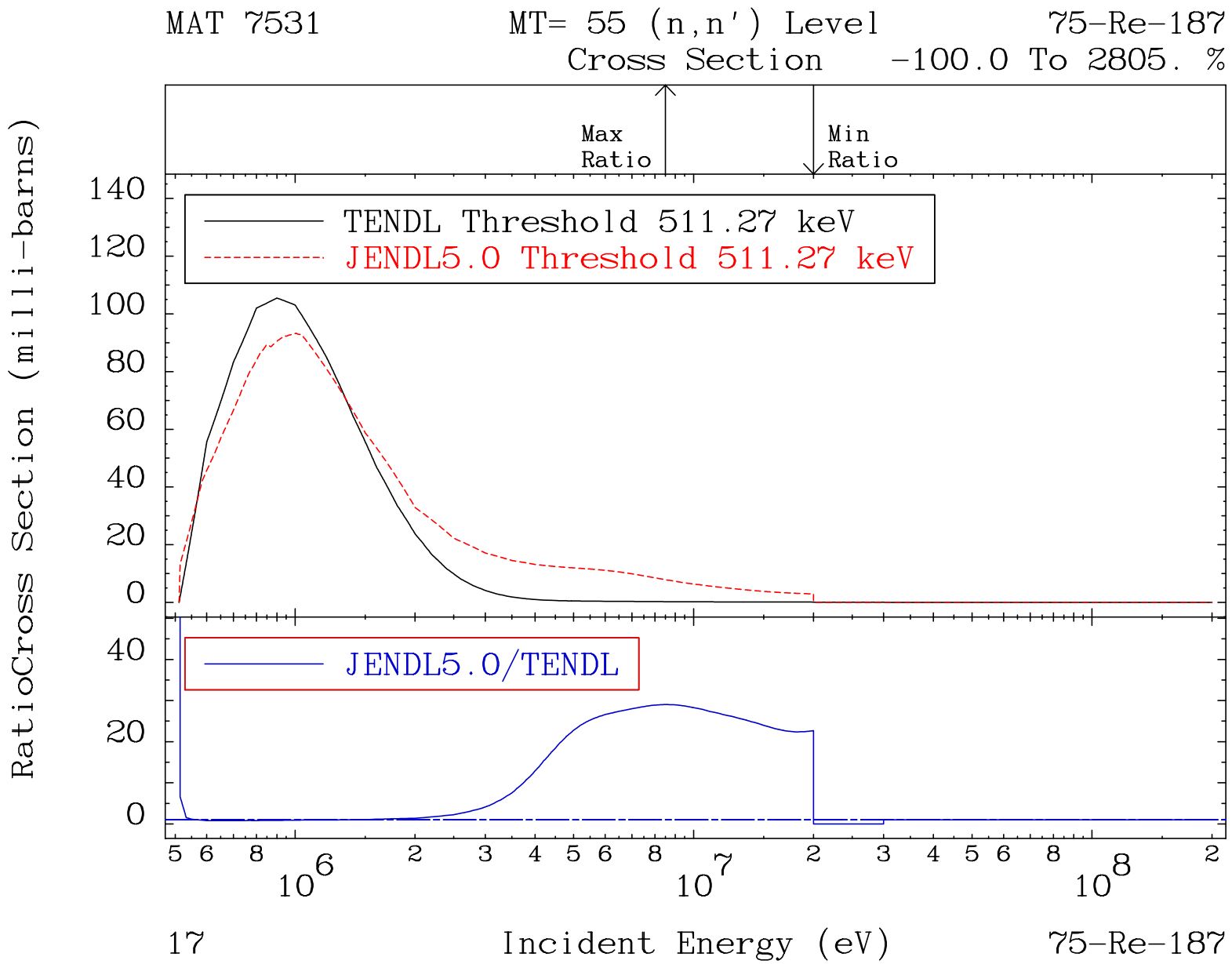

MAT 7531
(n,2n) p
Cross Section
75-Re-187
-100.0 To 157.1 %
Max
Ratio
TENDL Threshold 13.260 MeV
JENDL5.0 Threshold 13.260 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
75-Re-187

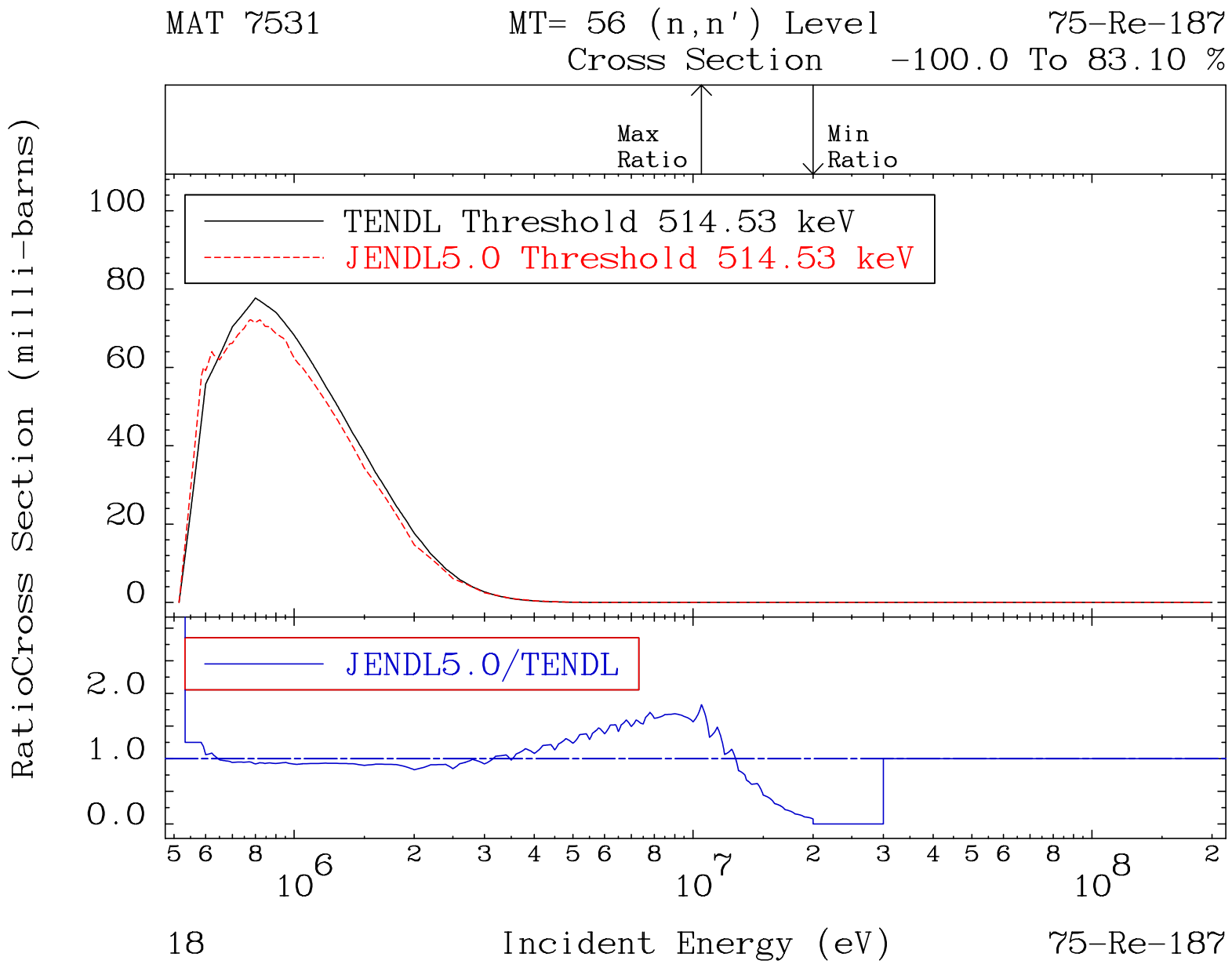

MAT 7531
MT= 51 (n,n') Level
75-Re-187
Cross Section
-100.0 To 0.753 %
Max Ratio
Min Ratio
TENDL Threshold 134.97 keV
JENDL5.0 Threshold 134.97 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
13
Incident Energy (eV)
75-Re-187

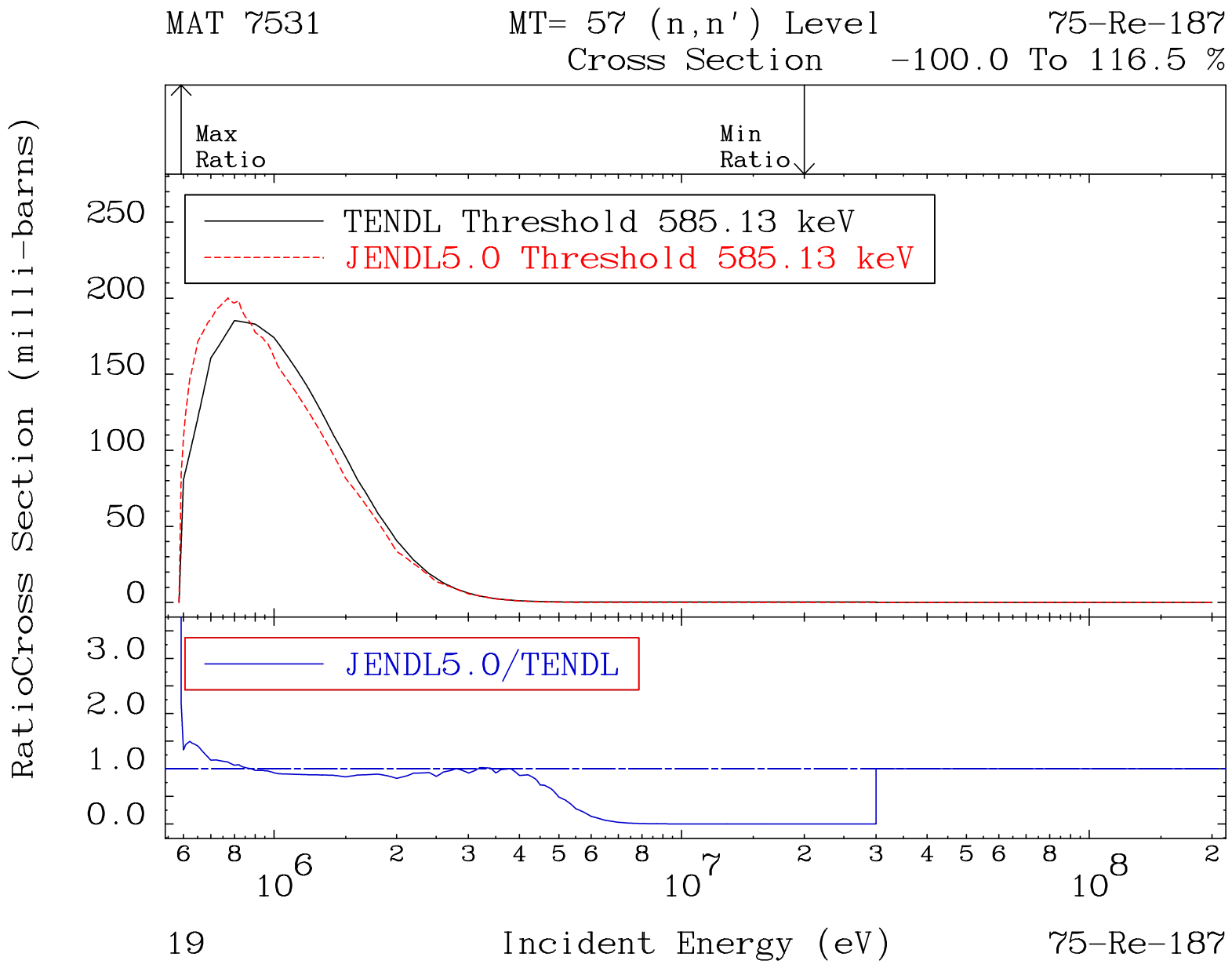

MAT 7531
MT= 52 (n,n') Level
75-Re-187
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 207.36 keV
JENDL5.0 Threshold 207.36 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.2
0.6
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
14
Incident Energy (eV)
75-Re-187

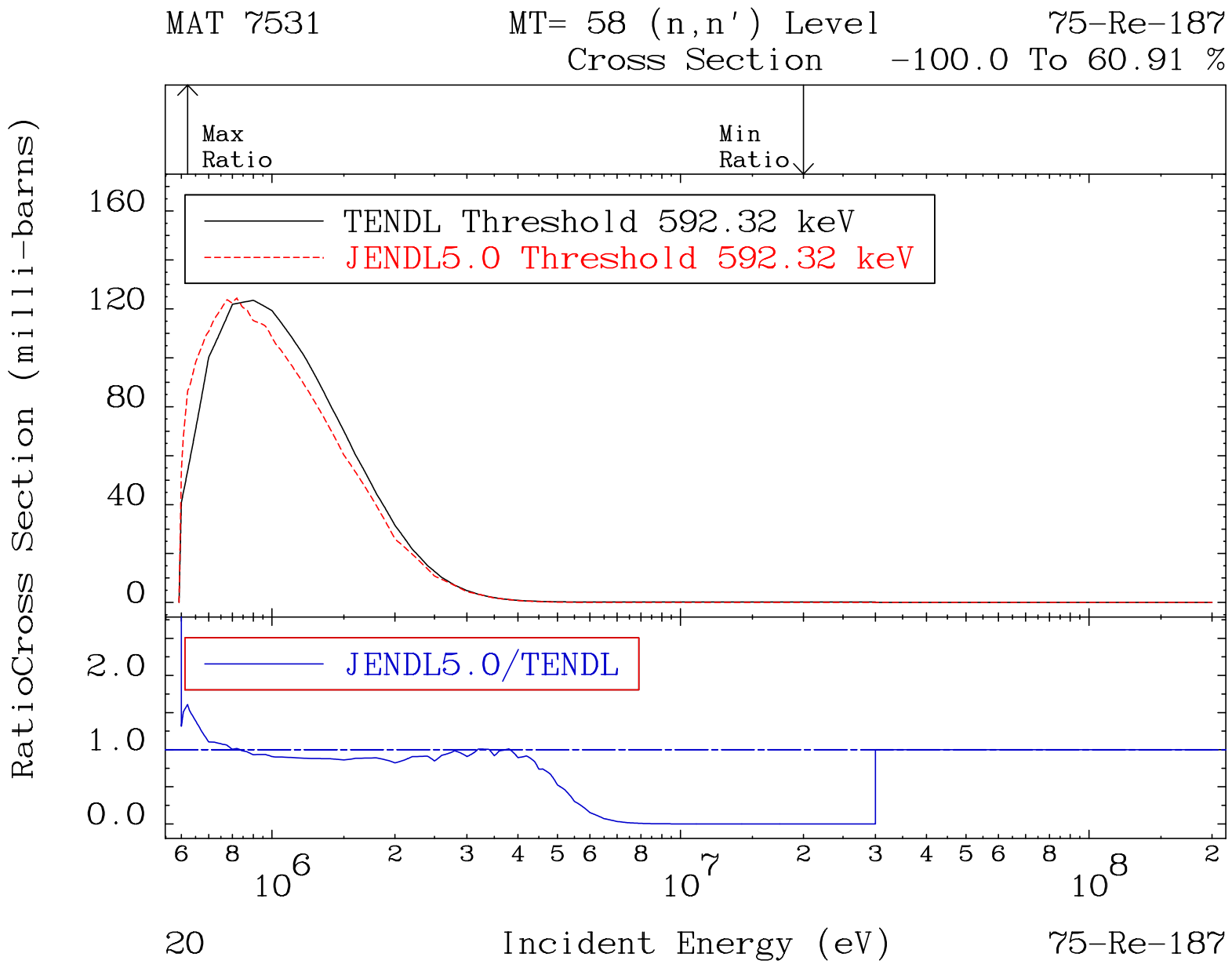

MAT 7531
MT= 53 (n,n') Level
75-Re-187
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 305.00 keV
JENDL5.0 Threshold 305.00 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
1.2
0.6
0.0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
75-Re-187

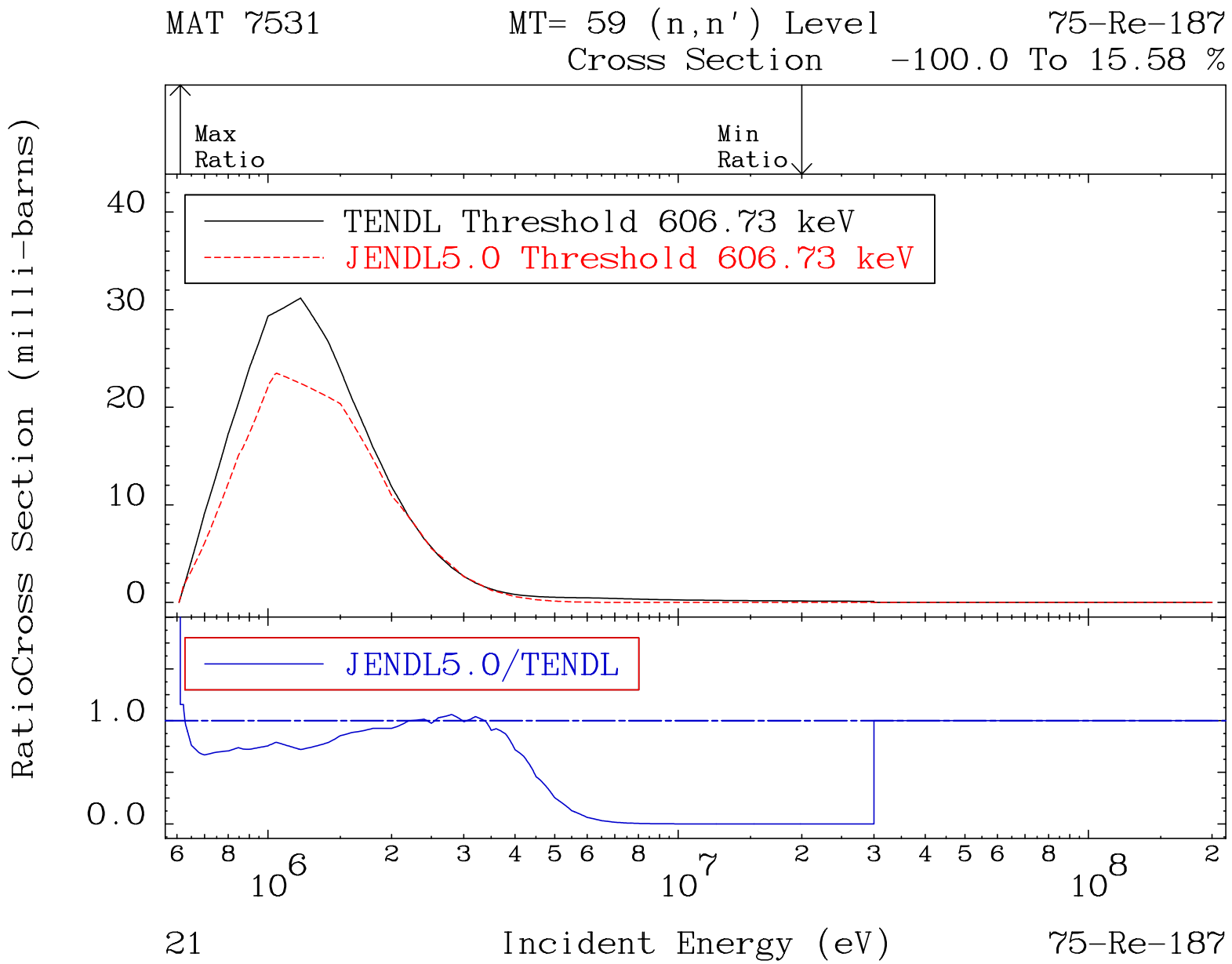

MAT 7531
MT= 54 (n,n') Level
75-Re-187
Cross Section
-100.0 To 1.410 %
Max Ratio
Min Ratio
TENDL Threshold 390.73 keV
JENDL5.0 Threshold 390.73 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.2
0.6
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
75-Re-187

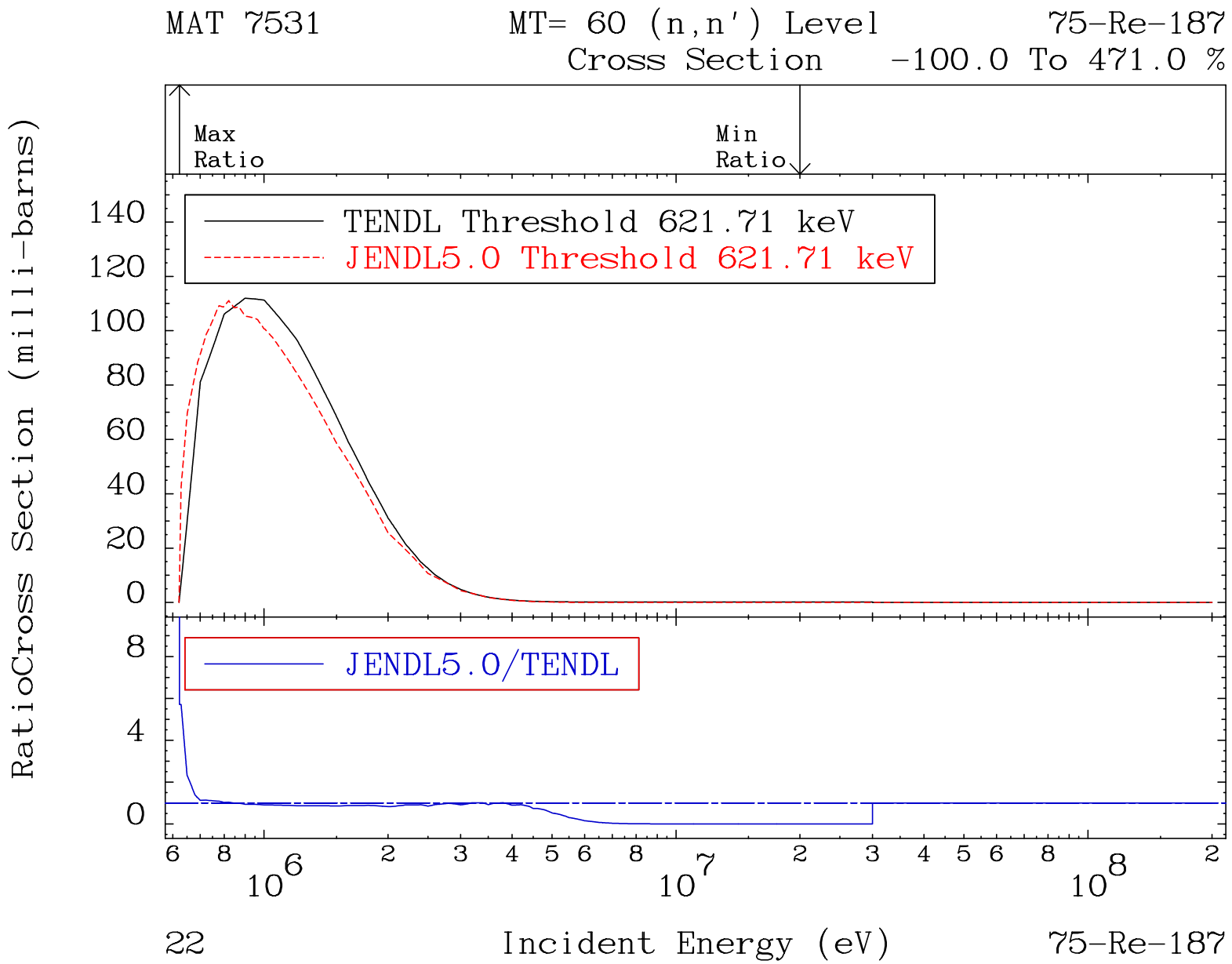

MAT 7531
MT= 55 (n,n') Level
75-Re-187
Cross Section
-100.0 To 2805. %
Max Ratio
Min Ratio
TENDL Threshold 511.27 keV
JENDL5.0 Threshold 511.27 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
40
20
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
75-Re-187

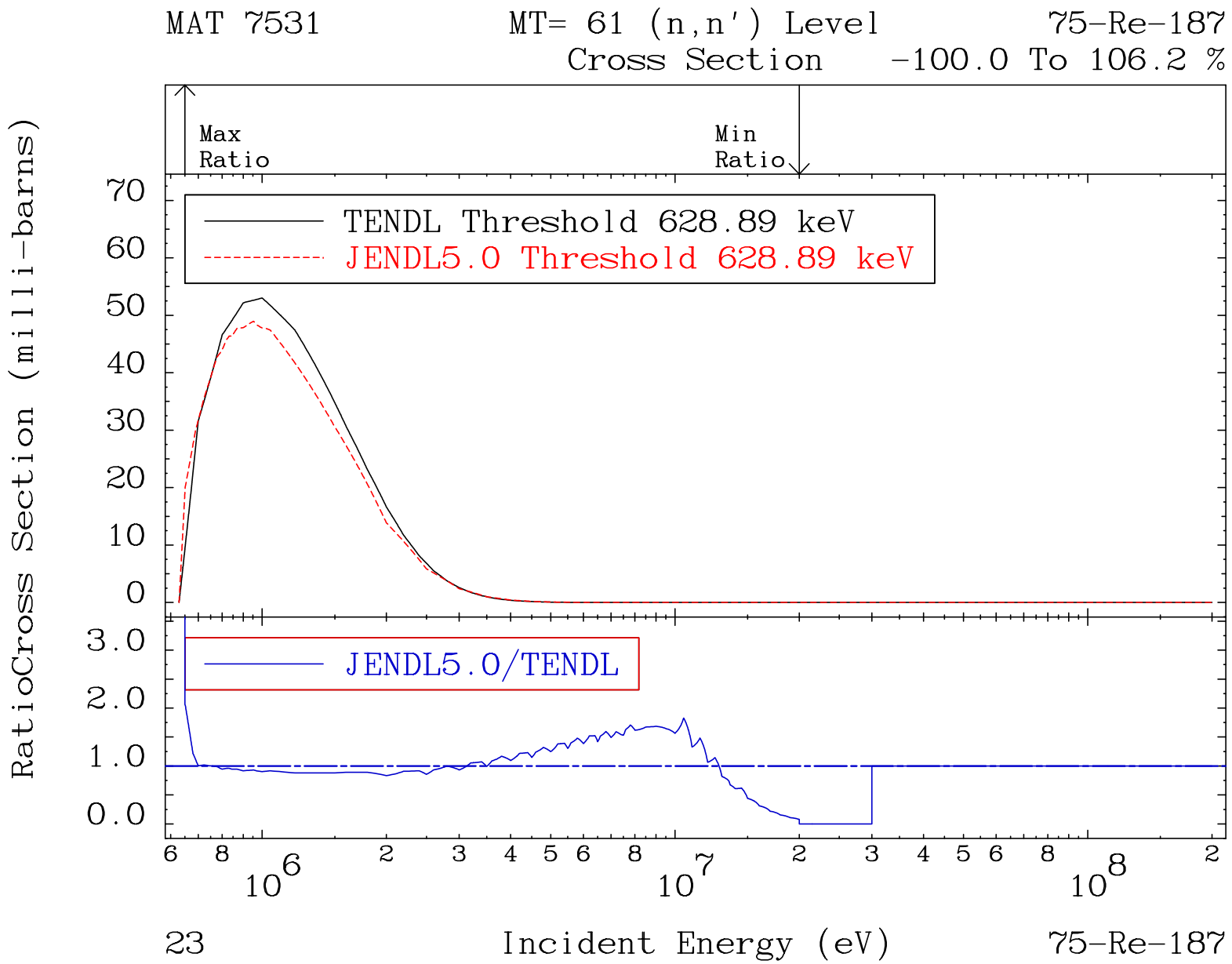

MAT 7531
MT= 56 (n,n') Level
75-Re-187
Cross Section
-100.0 To 83.10 %
Max Ratio
Min Ratio
TENDL Threshold 514.53 keV
JENDL5.0 Threshold 514.53 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
18
Incident Energy (eV)
75-Re-187

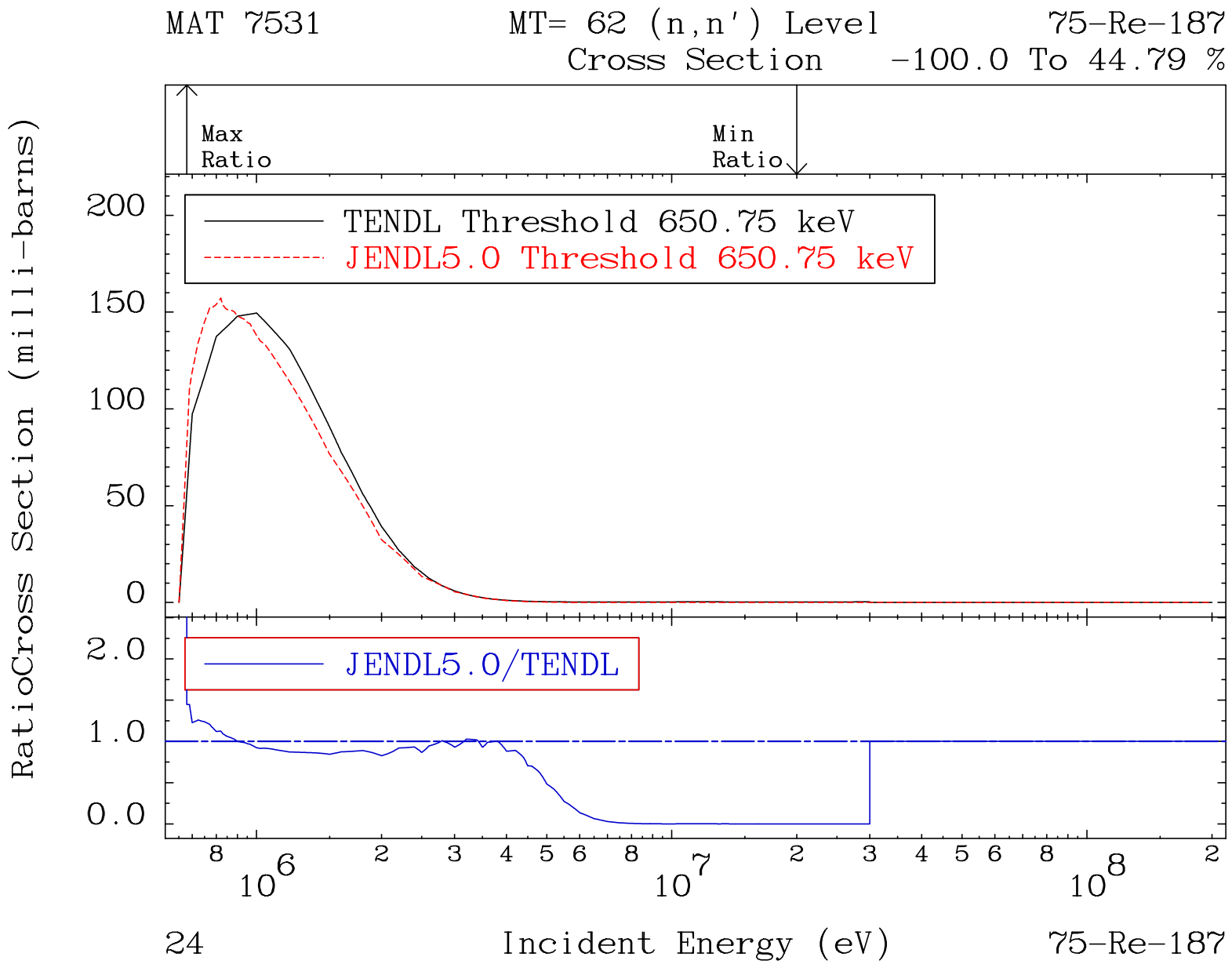

MAT 7531
MT= 57 (n,n') Level
75-Re-187
Cross Section
-100.0 To 116.5 %
Max Ratio
Min Ratio
TENDL Threshold 585.13 keV
JENDL5.0 Threshold 585.13 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
3.0
2.0
1.0
0.0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
75-Re-187

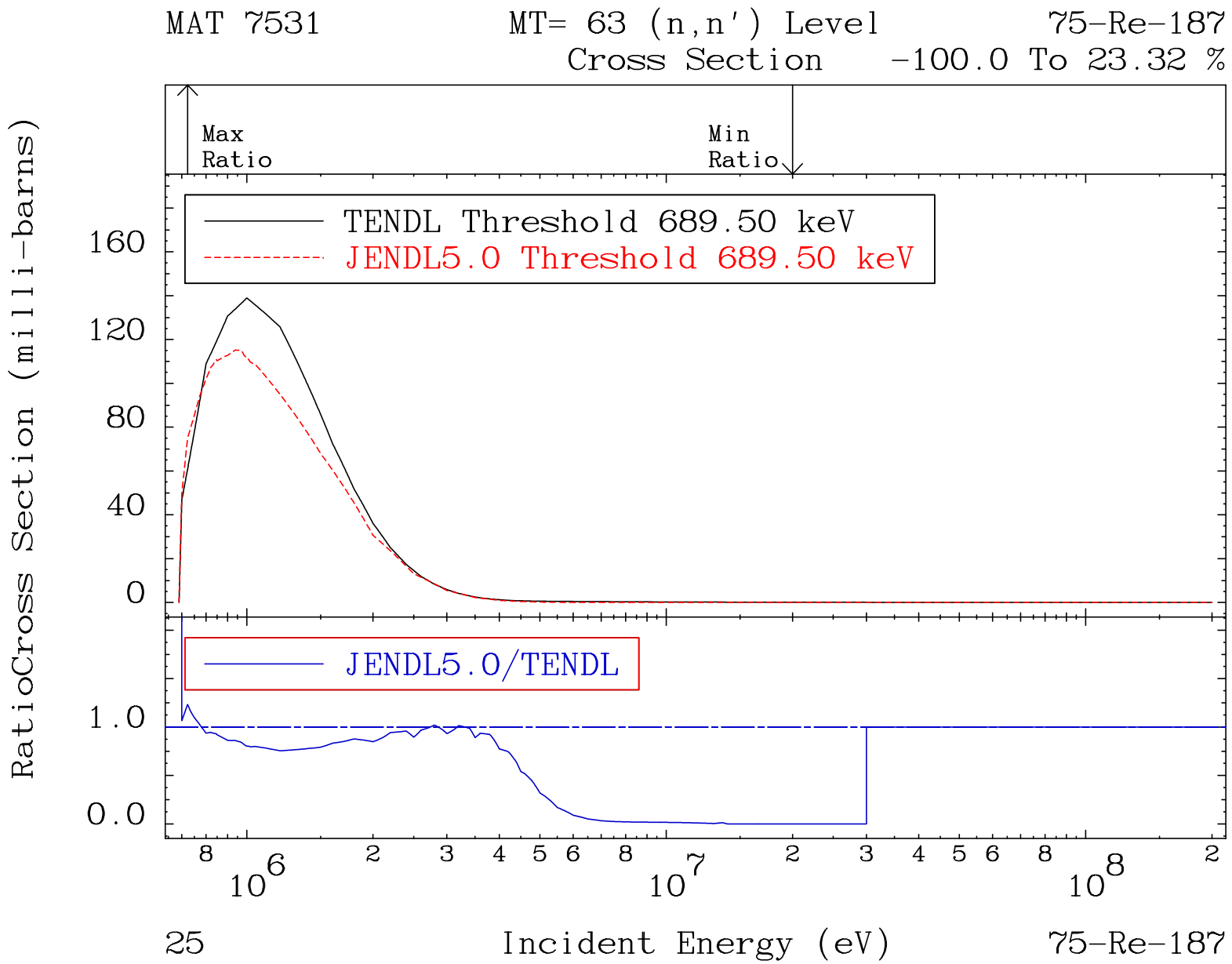

MAT 7531
MT= 58 (n,n') Level
75-Re-187
Cross Section
-100.0 To 60.91 %
Max Ratio
Min Ratio
TENDL Threshold 592.32 keV
JENDL5.0 Threshold 592.32 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.0
0.0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
75-Re-187

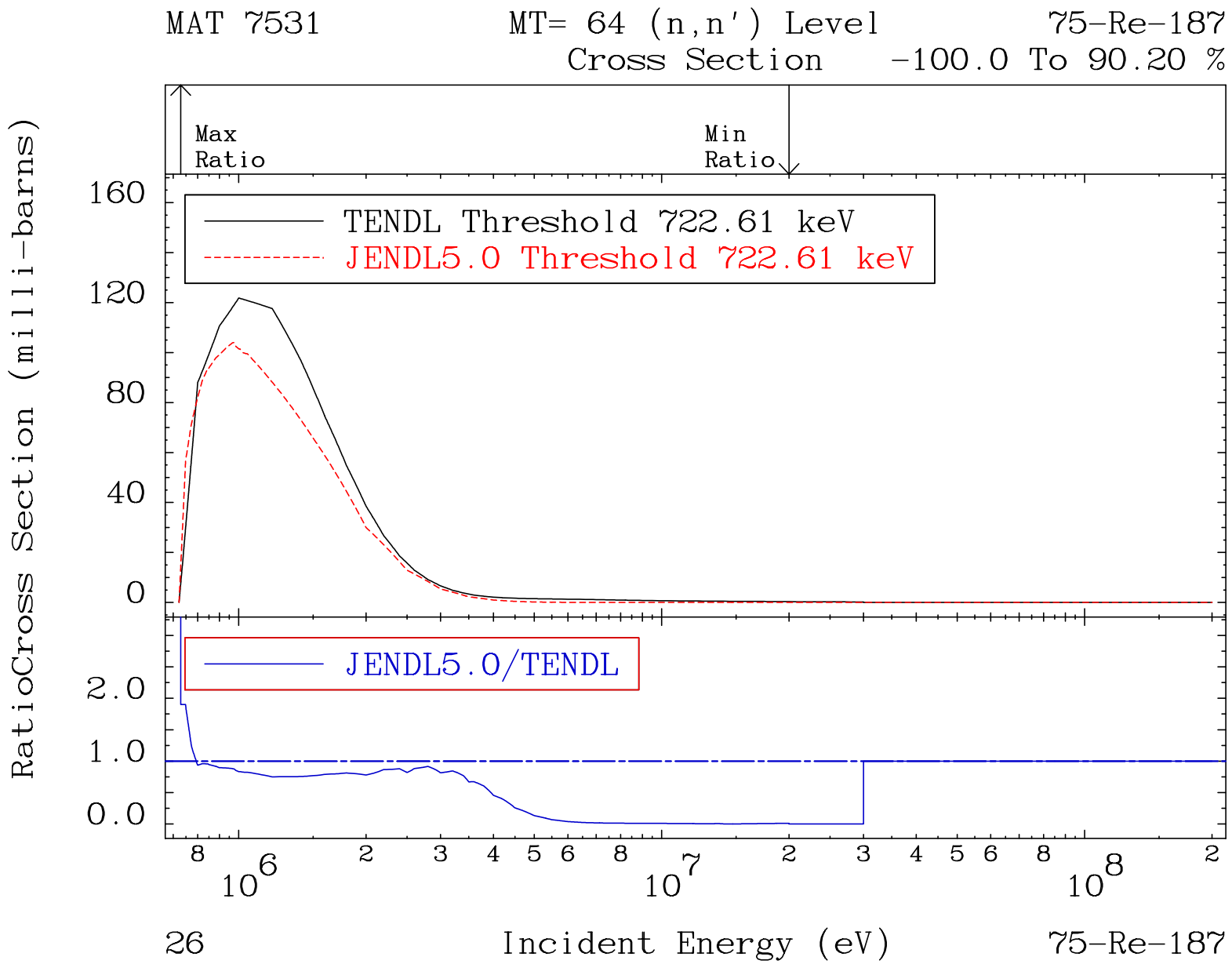

MAT 7531
MT= 59 (n,n') Level
75-Re-187
Cross Section
-100.0 To 15.58 %
Max Ratio
Min Ratio
TENDL Threshold 606.73 keV
JENDL5.0 Threshold 606.73 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.0
0.0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
75-Re-187

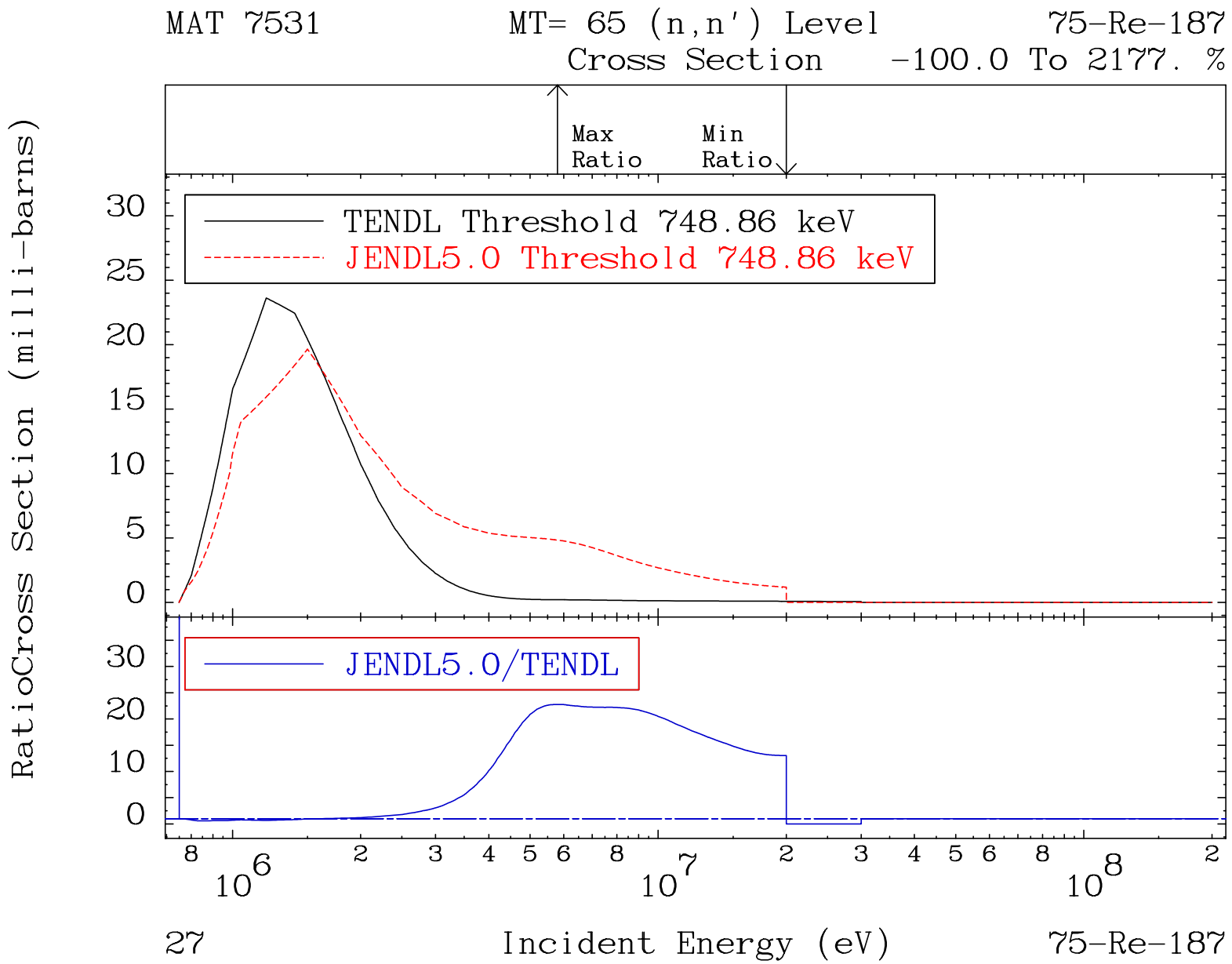

MAT 7531
MT= 60 (n,n') Level
75-Re-187
Cross Section
-100.0 To 471.0 %
Max Ratio
Min Ratio
TENDL Threshold 621.71 keV
JENDL5.0 Threshold 621.71 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
22
75-Re-187

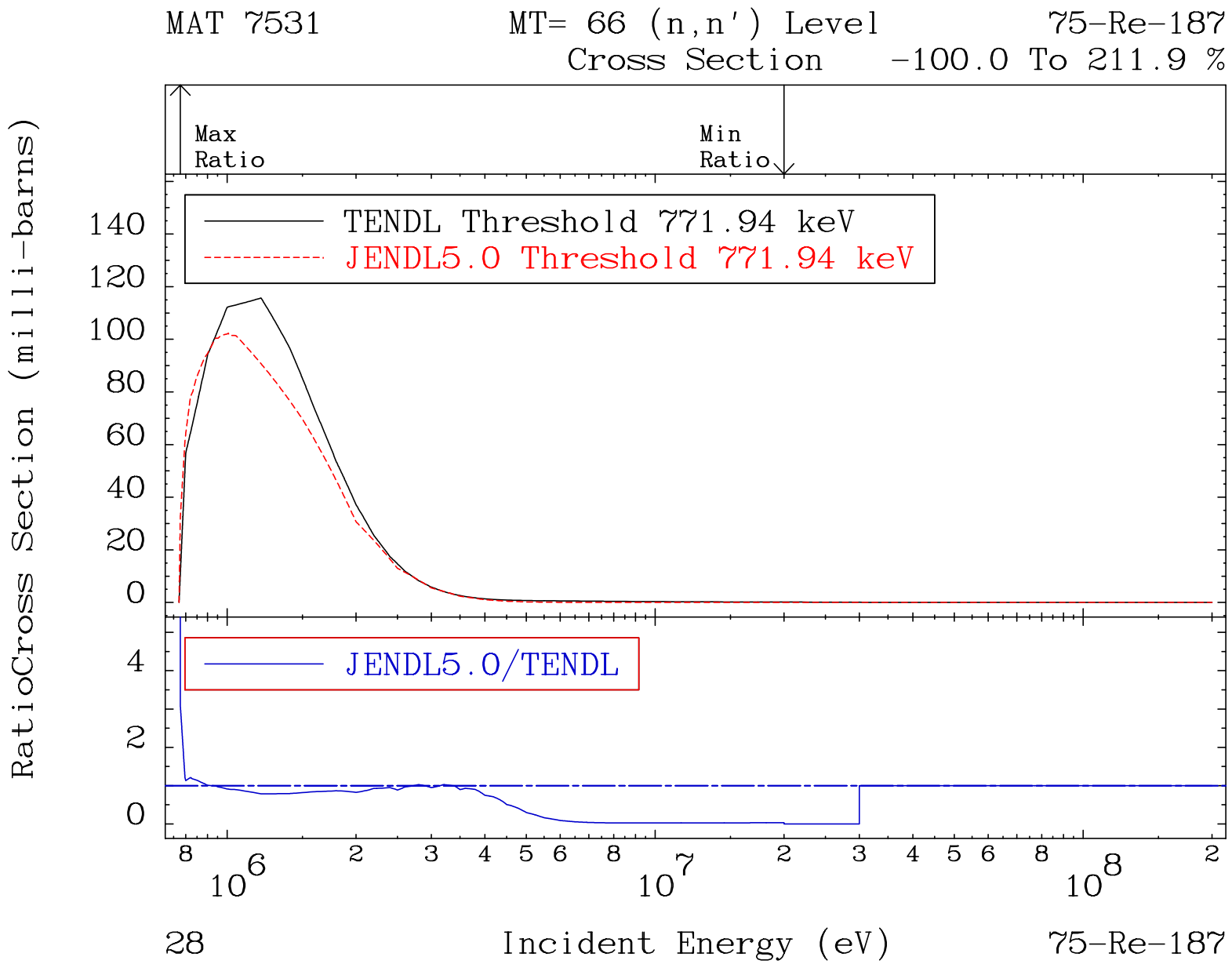

MAT 7531
MT= 61 (n,n') Level
75-Re-187
Cross Section
-100.0 To 106.2 %
Max Ratio
Min Ratio
TENDL Threshold 628.89 keV
JENDL5.0 Threshold 628.89 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
3.0
2.0
1.0
0.0
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
23
Incident Energy (eV)
75-Re-187

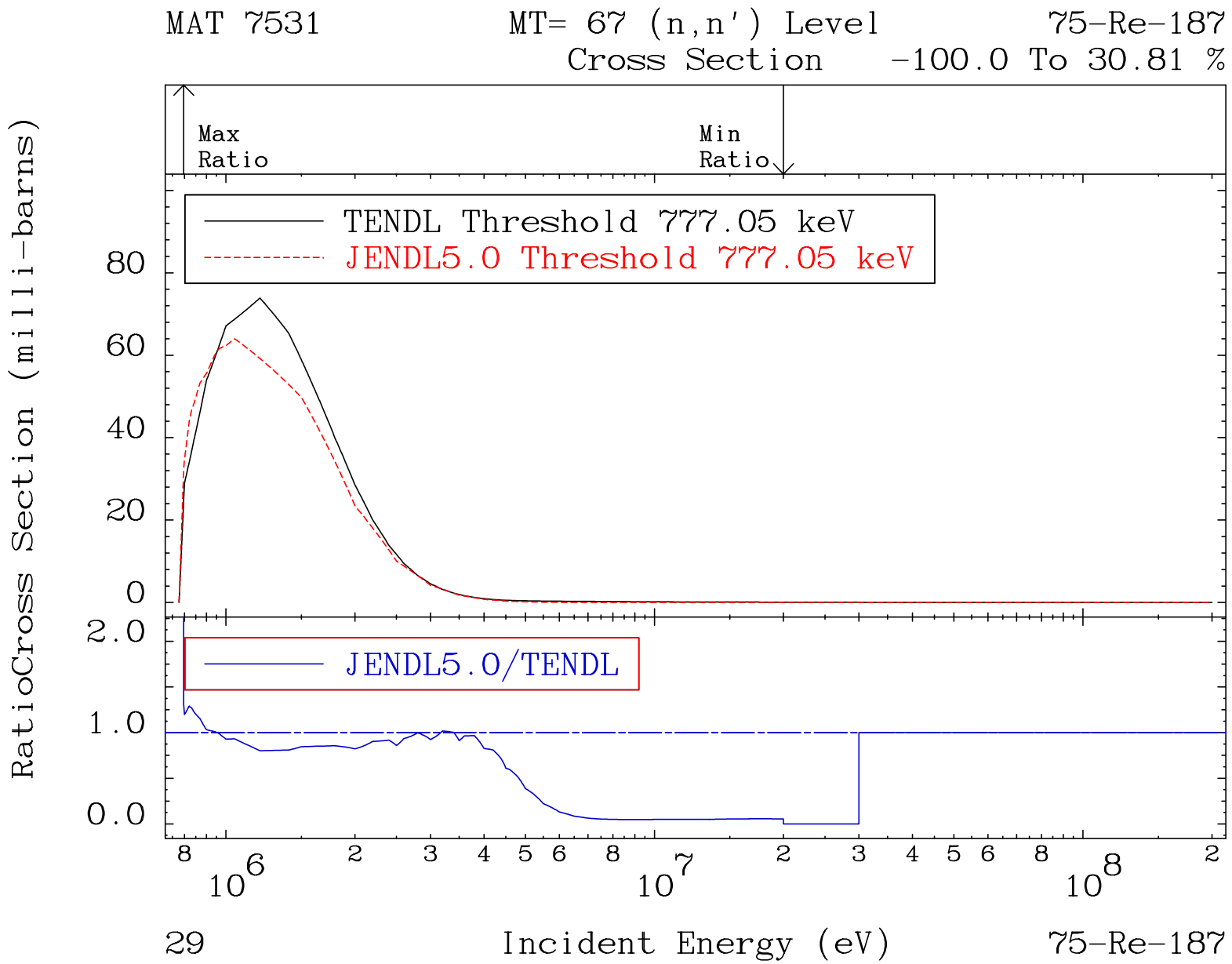

MAT 7531
MT= 62 (n,n') Level
75-Re-187
Cross Section
-100.0 To 44.79 %
Max Ratio
Min Ratio
TENDL Threshold 650.75 keV
JENDL5.0 Threshold 650.75 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
24
Incident Energy (eV)
75-Re-187

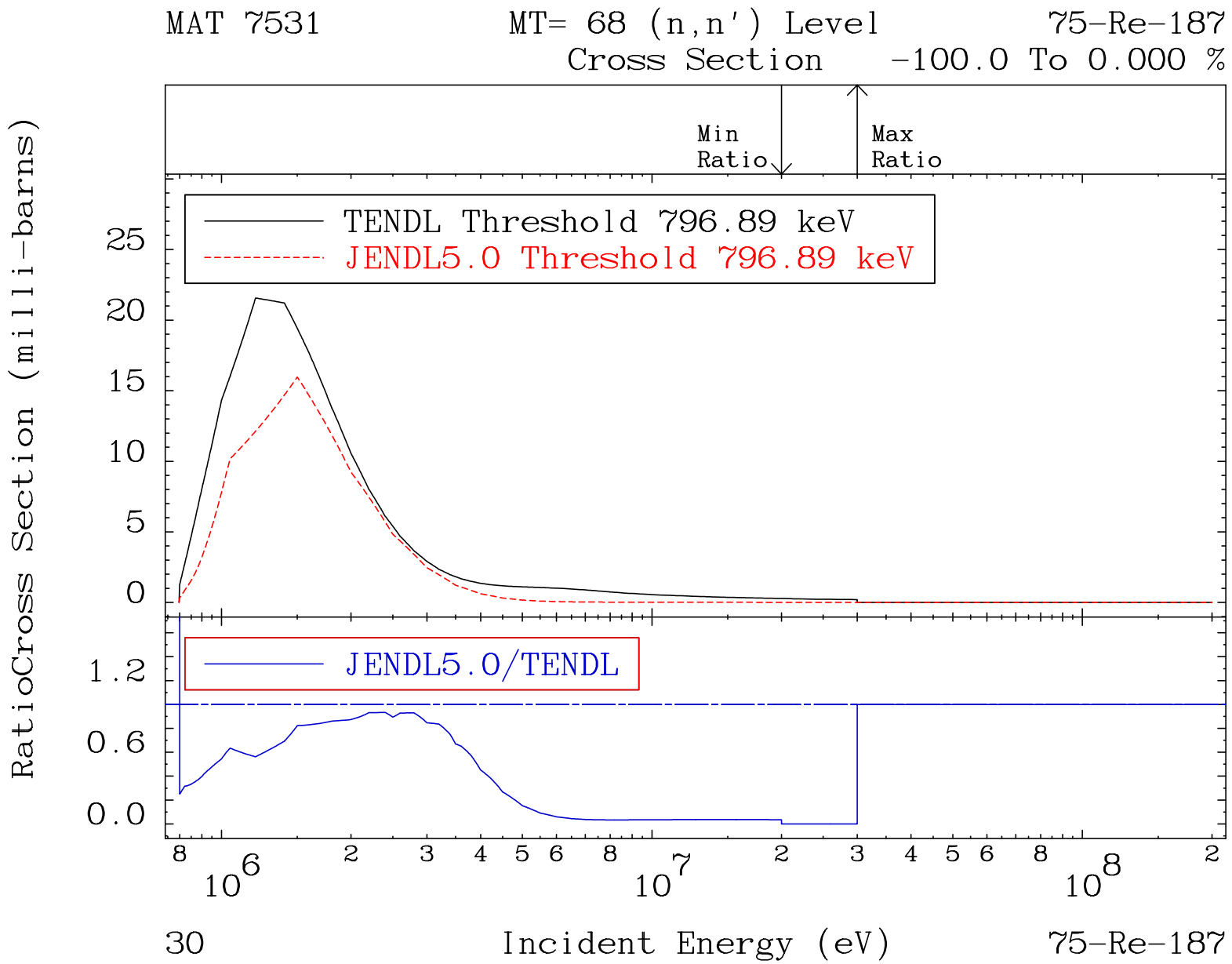

MAT 7531
MT= 63 (n,n') Level
75-Re-187
Cross Section
-100.0 To 23.32 %
Max Ratio
Min Ratio
TENDL Threshold 689.50 keV
JENDL5.0 Threshold 689.50 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
25
Incident Energy (eV)
75-Re-187

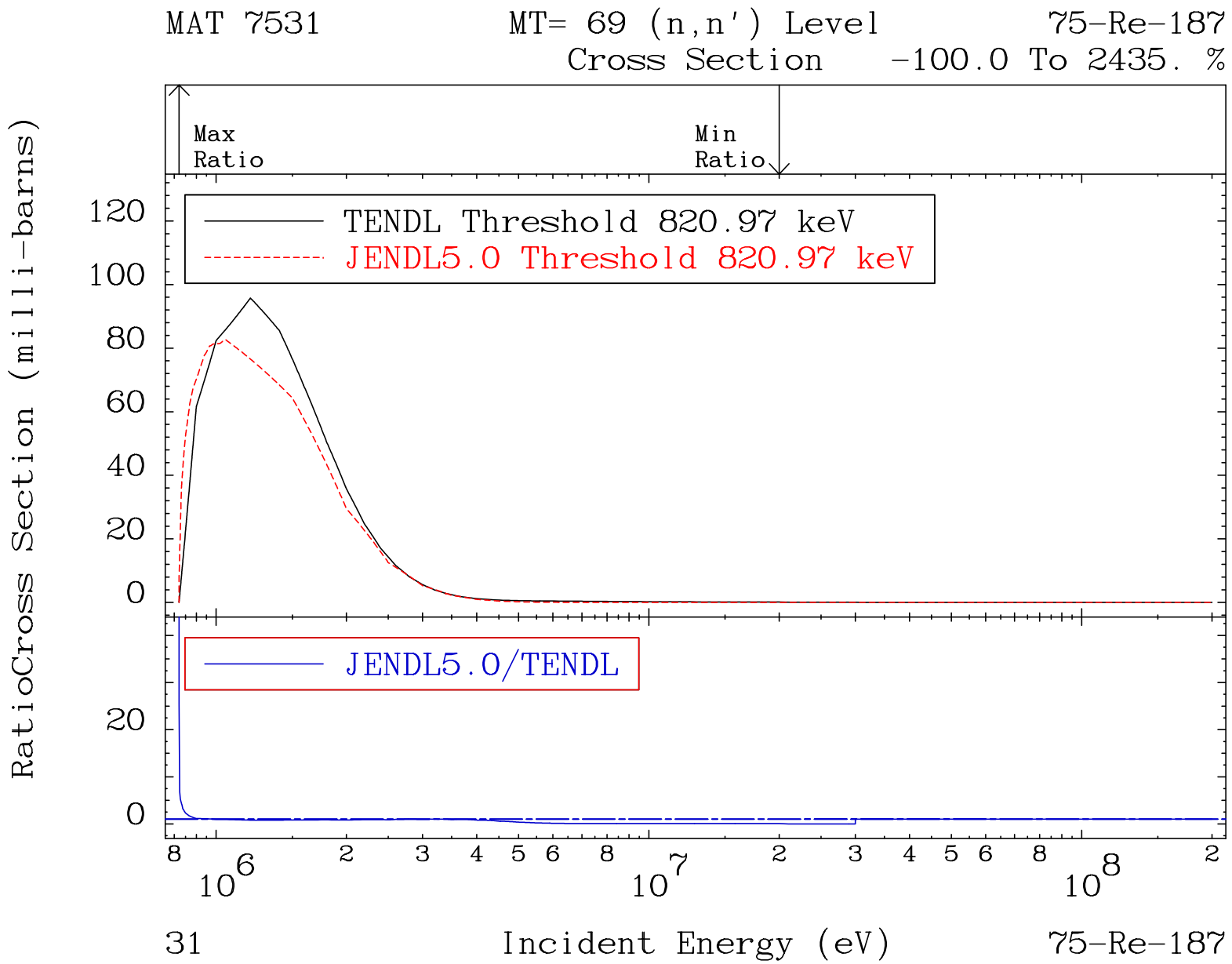

MAT 7531
MT= 64 (n,n') Level
75-Re-187
Cross Section
-100.0 To 90.20 %
Max Ratio
Min Ratio
TENDL Threshold 722.61 keV
JENDL5.0 Threshold 722.61 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
26
Incident Energy (eV)
75-Re-187

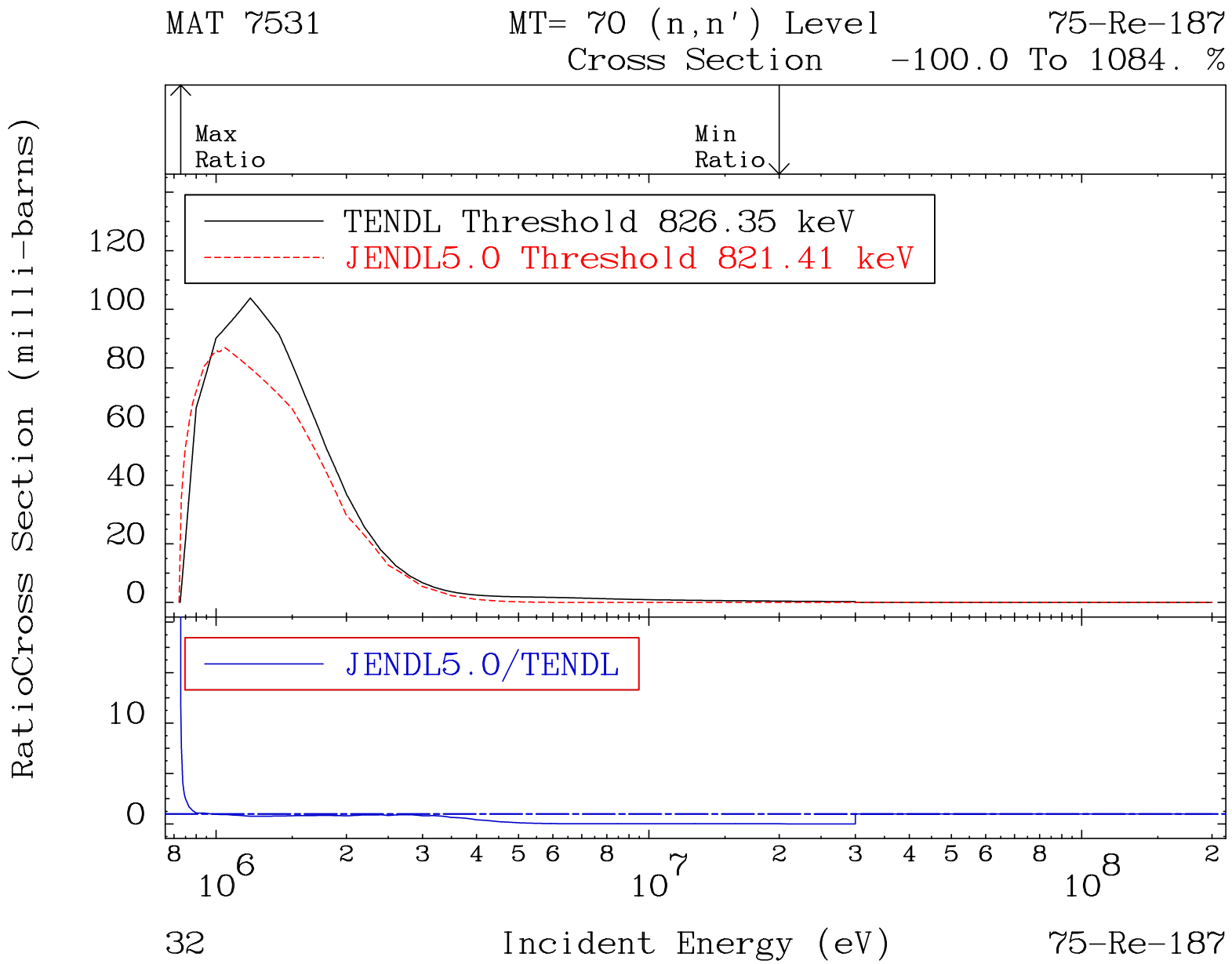

MAT 7531
MT= 65 (n,n') Level
75-Re-187
Cross Section
-100.0 To 2177. %
Max Ratio
Min Ratio
TENDL Threshold 748.86 keV
JENDL5.0 Threshold 748.86 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
30
20
10
0
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
27
Incident Energy (eV)
75-Re-187

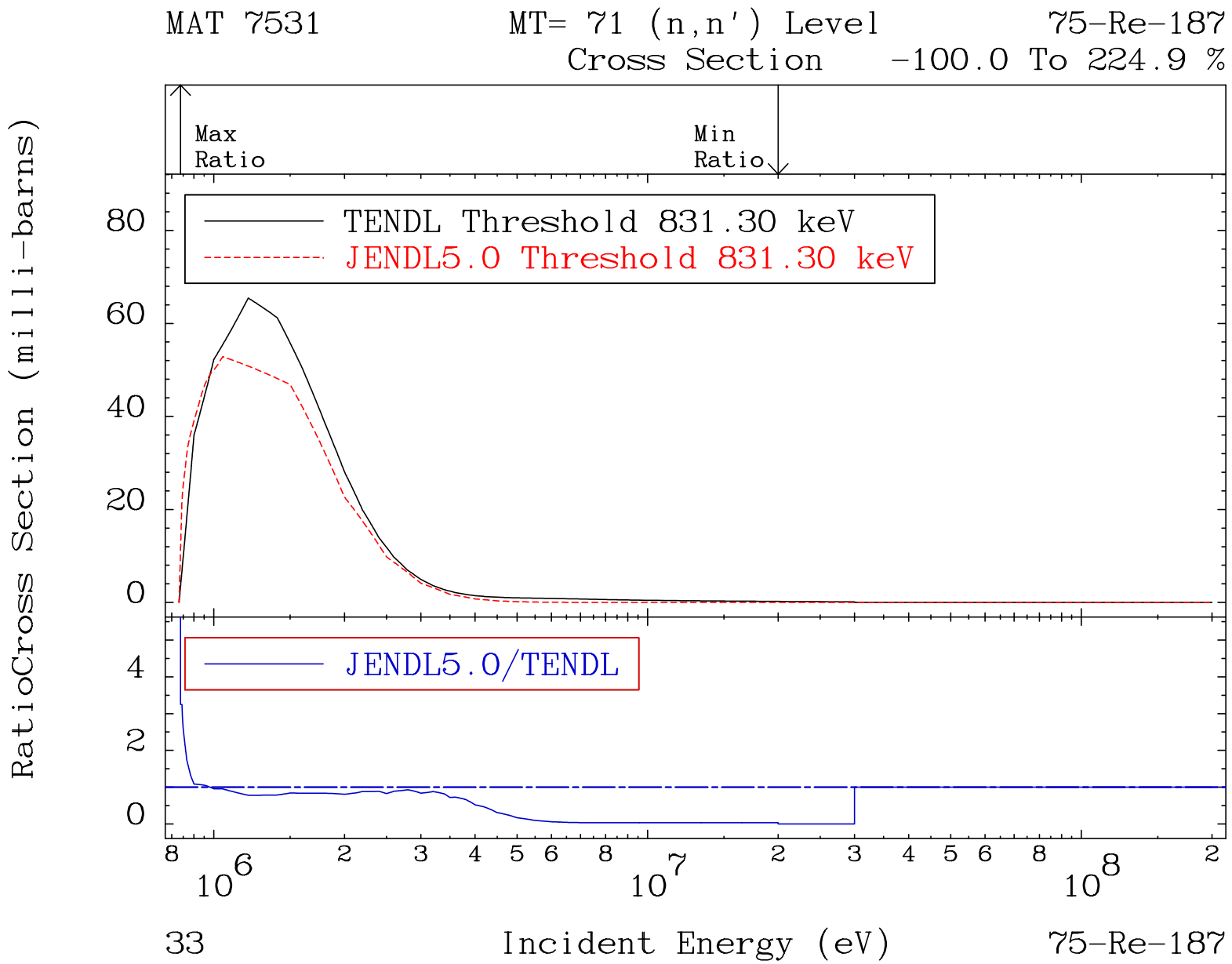

MAT 7531
MT= 66 (n,n') Level
75-Re-187
Cross Section
-100.0 To 211.9 %
Max Ratio
Min Ratio
TENDL Threshold 771.94 keV
JENDL5.0 Threshold 771.94 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
4
2
0
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
28
Incident Energy (eV)
75-Re-187

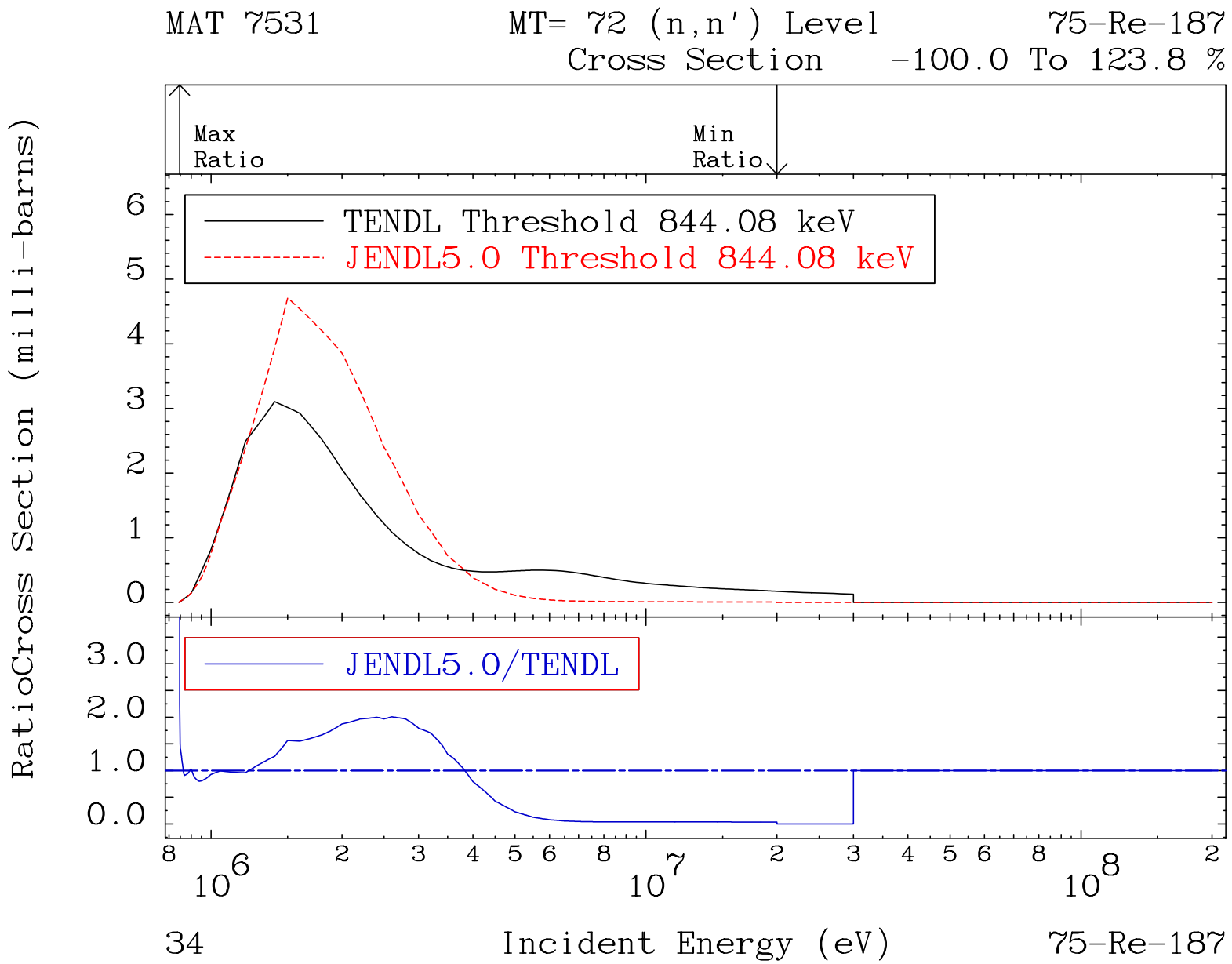

MAT 7531
MT= 67 (n,n') Level
75-Re-187
Cross Section
-100.0 To 30.81 %
Max Ratio
Min Ratio
TENDL Threshold 777.05 keV
JENDL5.0 Threshold 777.05 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
29
Incident Energy (eV)
75-Re-187

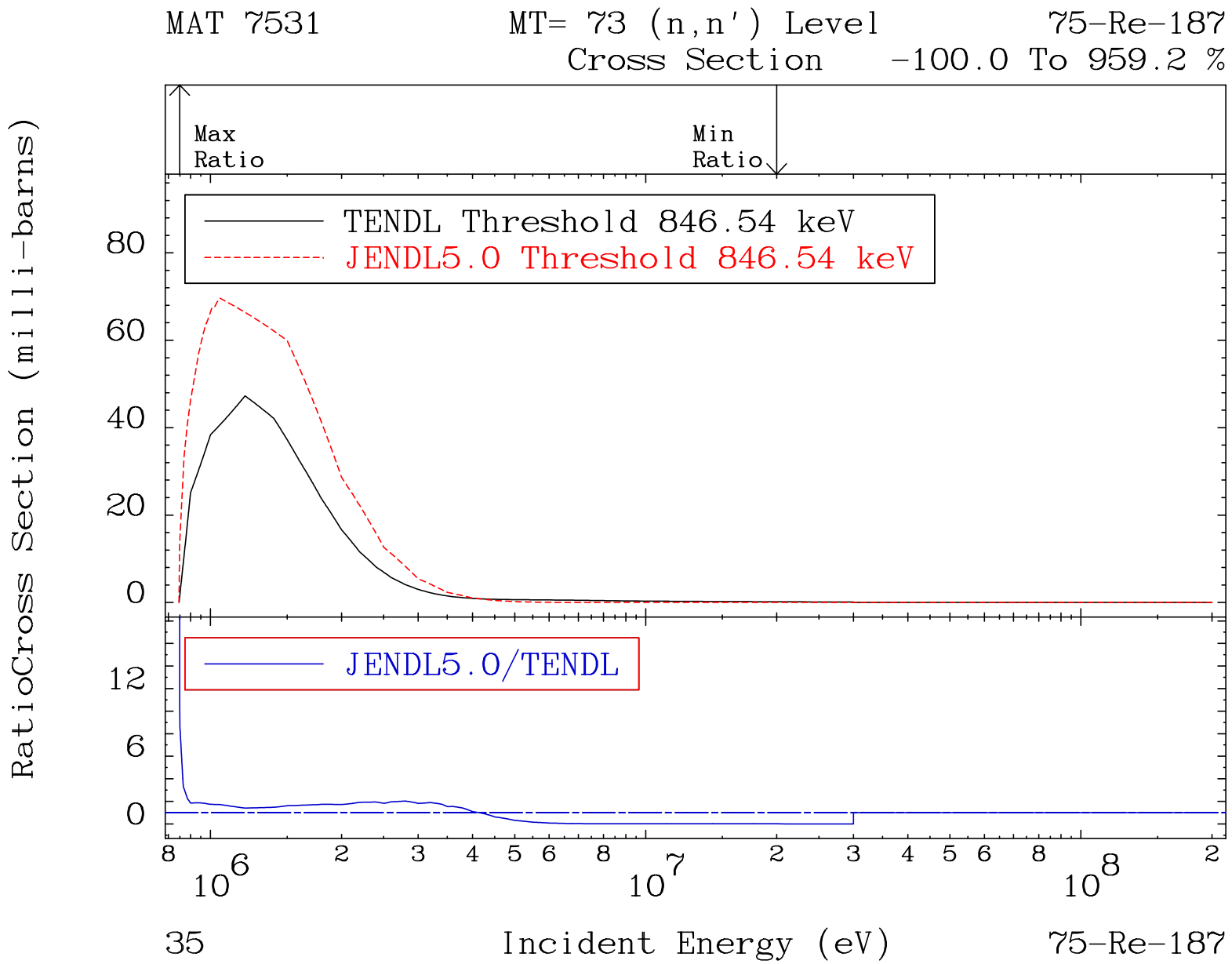

MAT 7531
MT= 68 (n,n') Level
75-Re-187
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 796.89 keV
JENDL5.0 Threshold 796.89 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.6
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
30
Incident Energy (eV)
75-Re-187

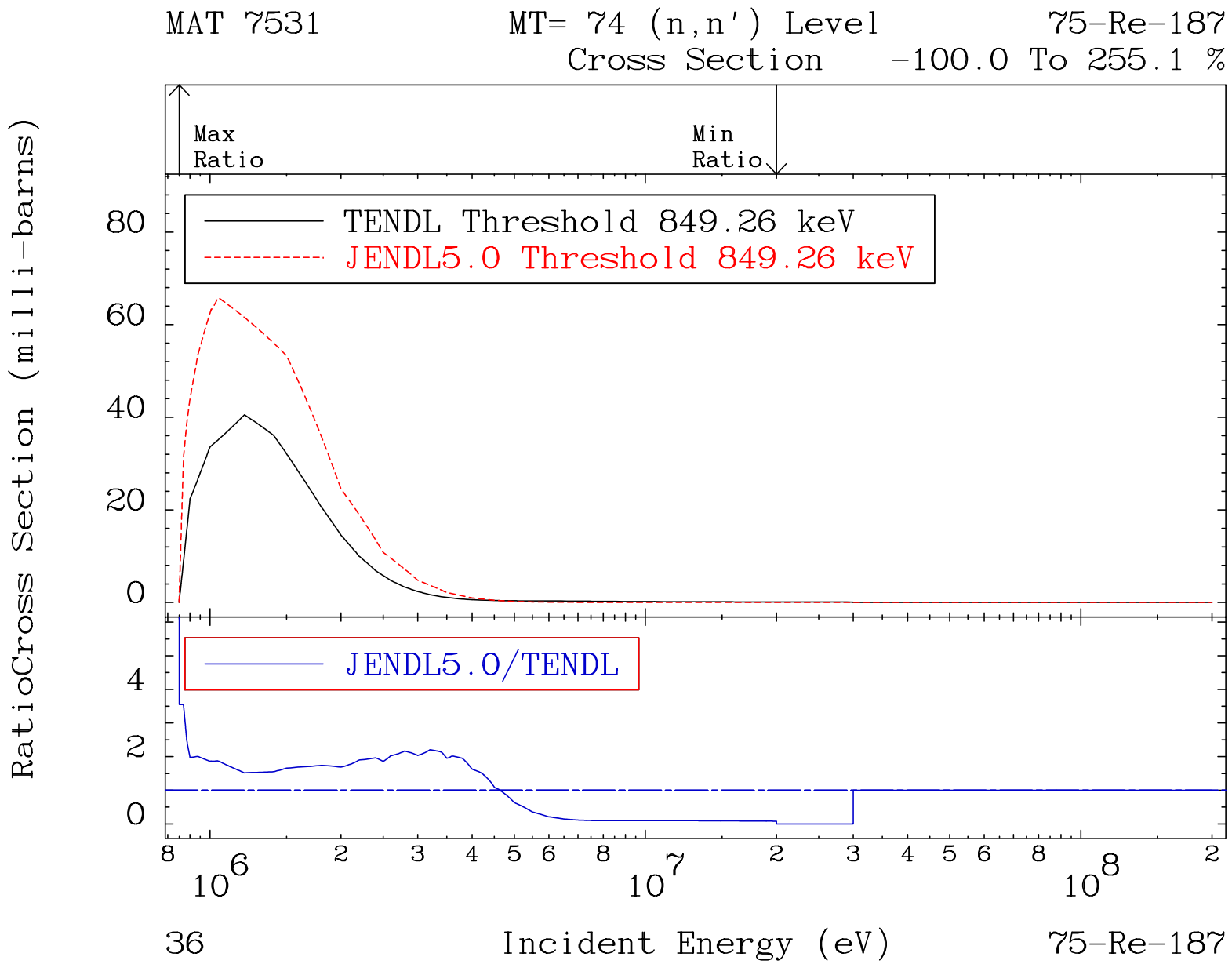

MAT 7531
MT= 69 (n,n') Level
75-Re-187
Cross Section
-100.0 To 2435. %
Max Ratio
Min Ratio
TENDL Threshold 820.97 keV
JENDL5.0 Threshold 820.97 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
20
0
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
31
Incident Energy (eV)
75-Re-187

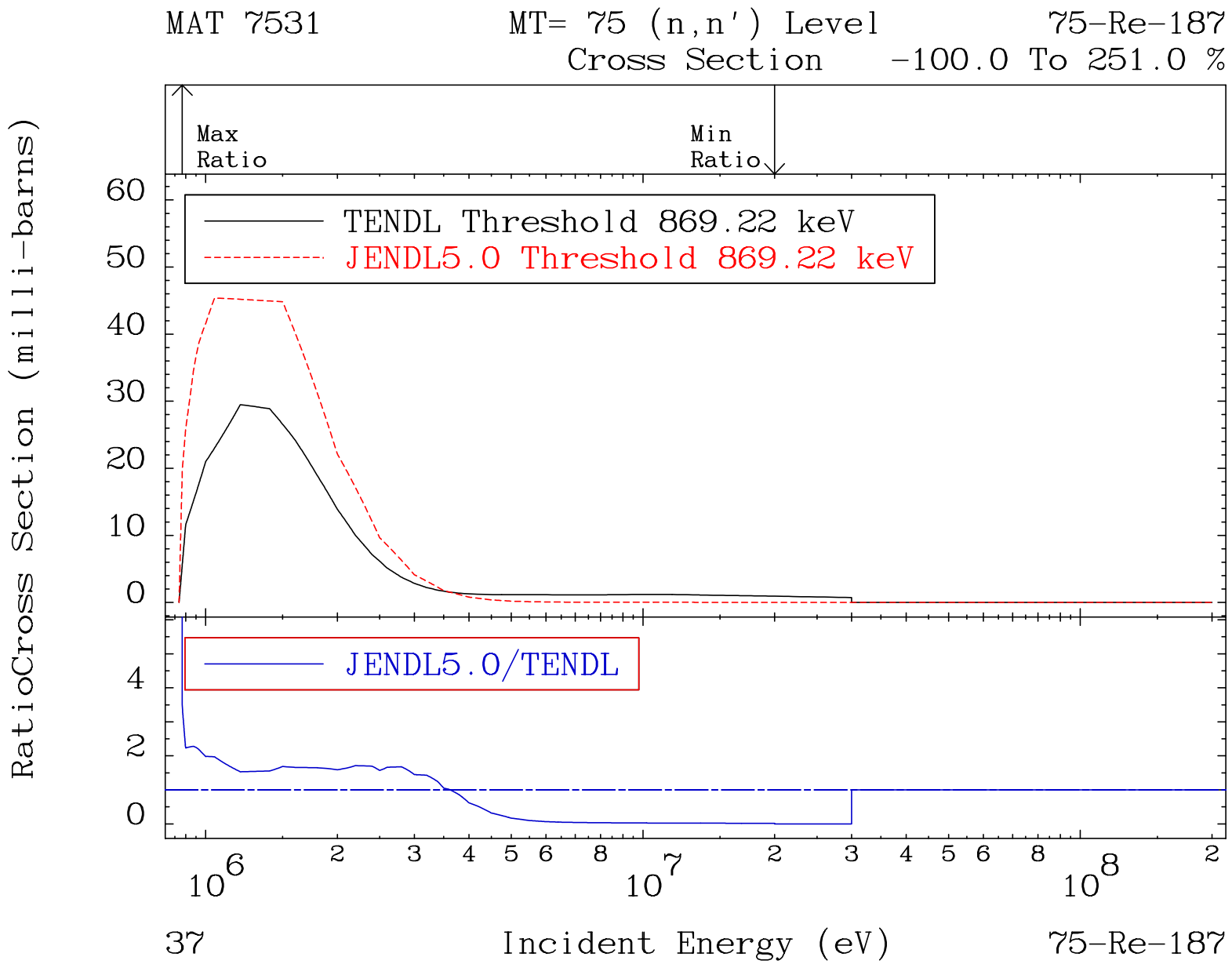

MAT 7531
MT= 70 (n,n') Level
75-Re-187
Cross Section
-100.0 To 1084. %
Max Ratio
Min Ratio
TENDL Threshold 826.35 keV
JENDL5.0 Threshold 821.41 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10
0
8
2
3
4
5
6
8
10^6
10^7
10^8
32
Incident Energy (eV)
75-Re-187

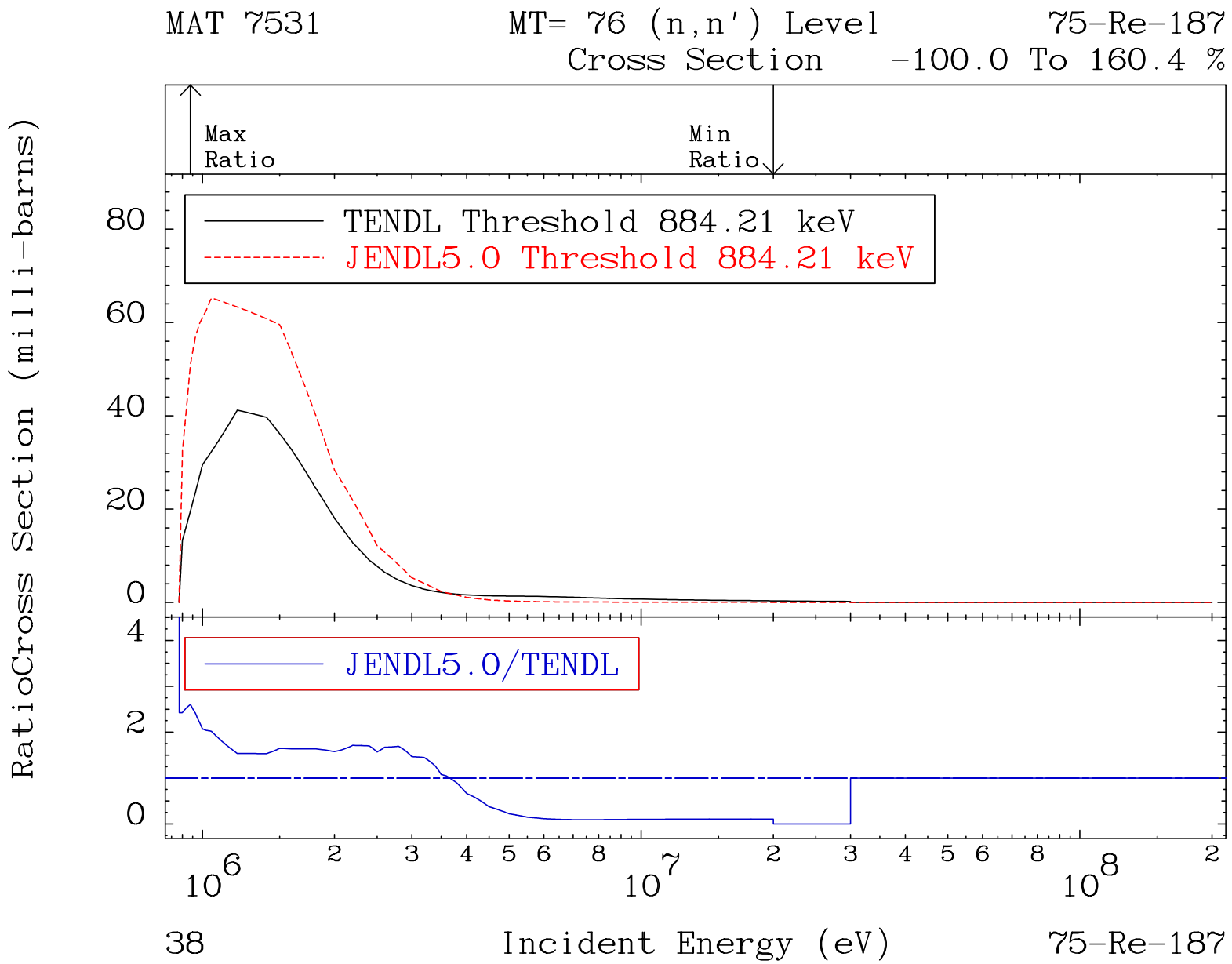

MAT 7531
MT= 71 (n,n') Level
75-Re-187
Cross Section
-100.0 To 224.9 %
Max Ratio
Min Ratio
TENDL Threshold 831.30 keV
JENDL5.0 Threshold 831.30 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
33
75-Re-187

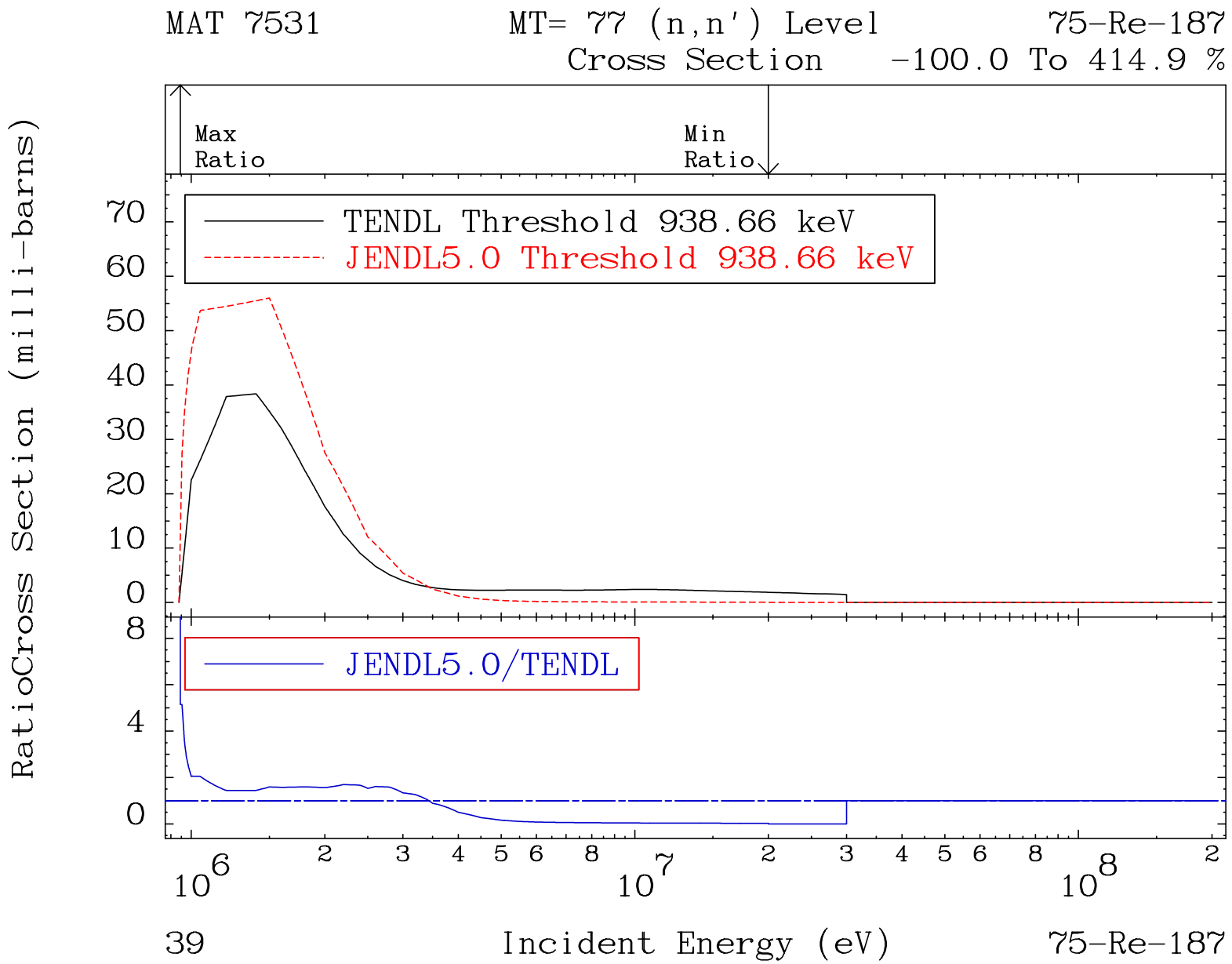

MAT 7531
MT= 72 (n,n') Level
75-Re-187
Cross Section
-100.0 To 123.8 %
Max Ratio
Min Ratio
TENDL Threshold 844.08 keV
JENDL5.0 Threshold 844.08 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
34
75-Re-187

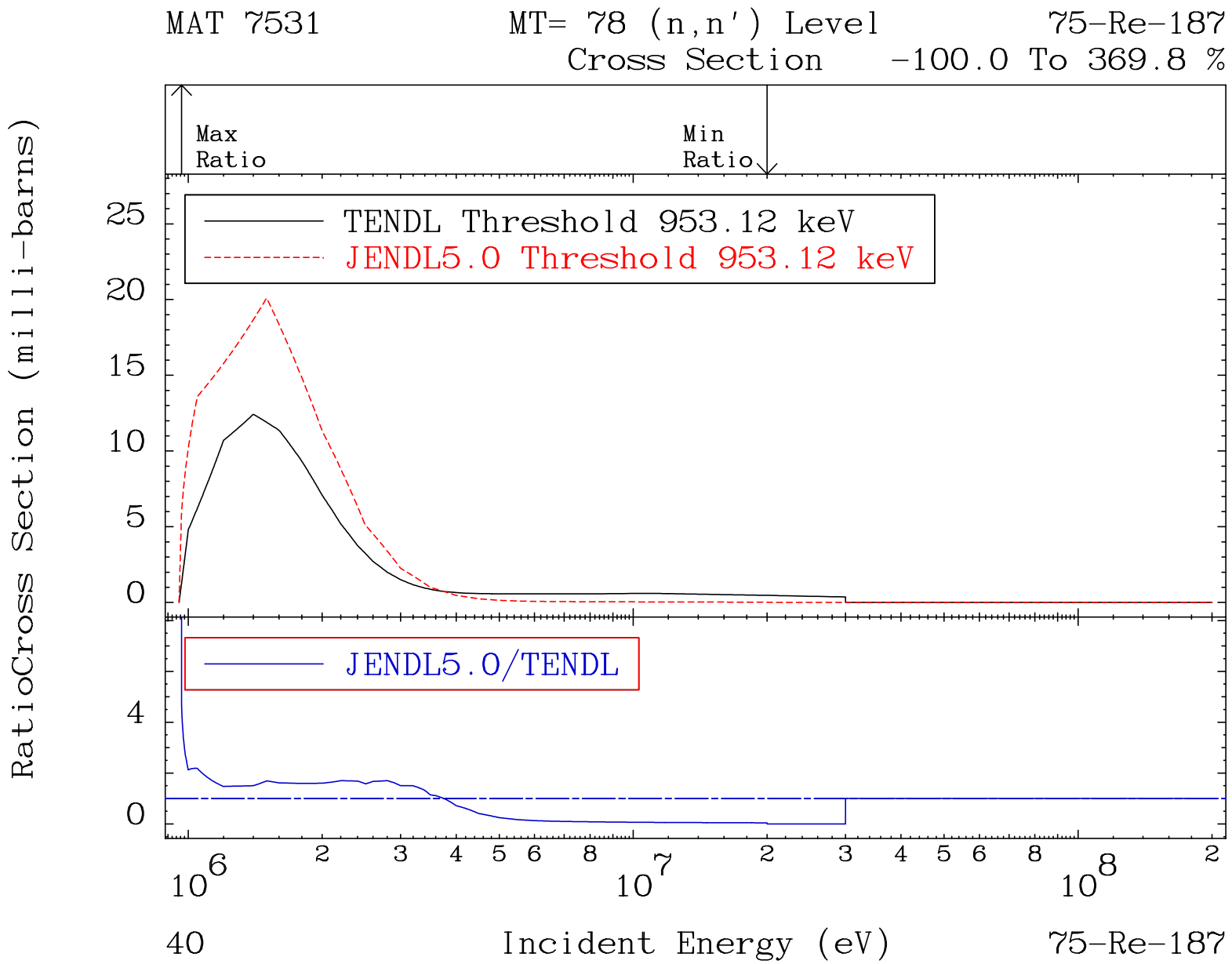

MAT 7531
MT= 73 (n,n') Level
75-Re-187
Cross Section
-100.0 To 959.2 %
Max Ratio
Min Ratio
TENDL Threshold 846.54 keV
JENDL5.0 Threshold 846.54 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
12
6
0
8
2
3
4
5
6
8
10^6
10^7
10^8
35
Incident Energy (eV)
75-Re-187

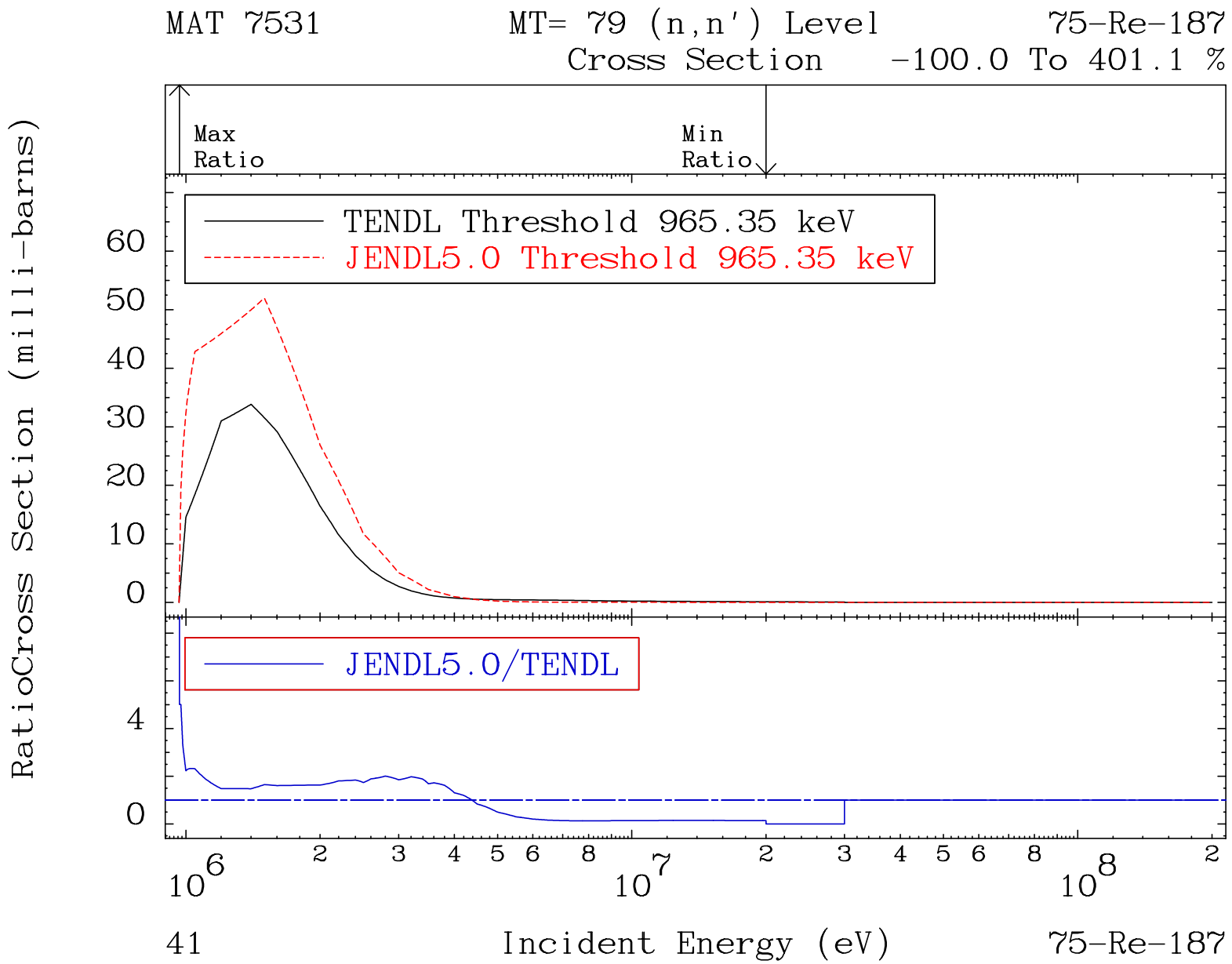

MAT 7531
MT= 74 (n,n') Level
75-Re-187
Cross Section
-100.0 To 255.1 %
Max Ratio
Min Ratio
TENDL Threshold 849.26 keV
JENDL5.0 Threshold 849.26 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
36
Incident Energy (eV)
75-Re-187

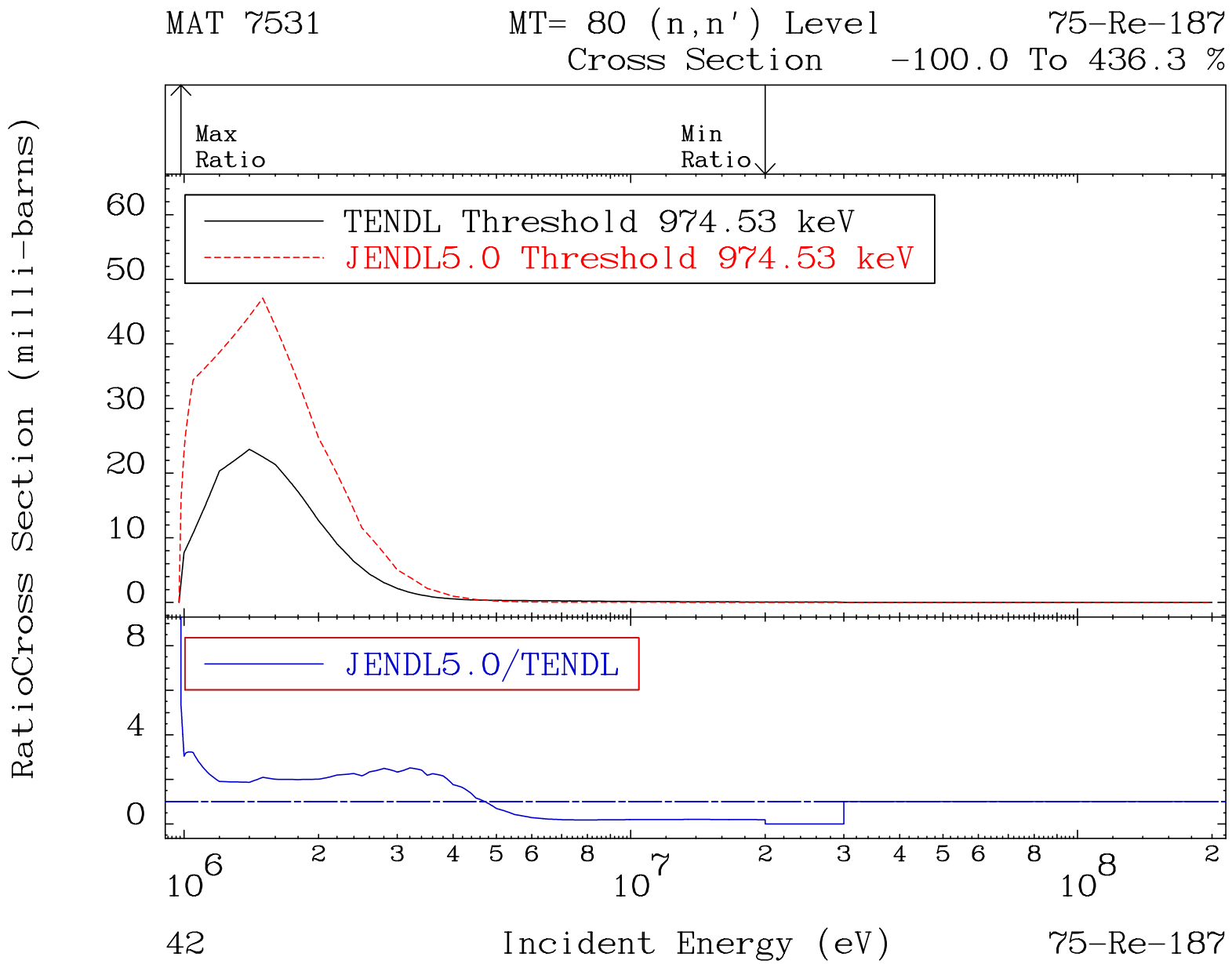

MAT 7531
MT= 75 (n,n') Level
75-Re-187
Cross Section
-100.0 To 251.0 %
Max Ratio
Min Ratio
TENDL Threshold 869.22 keV
JENDL5.0 Threshold 869.22 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
37
75-Re-187

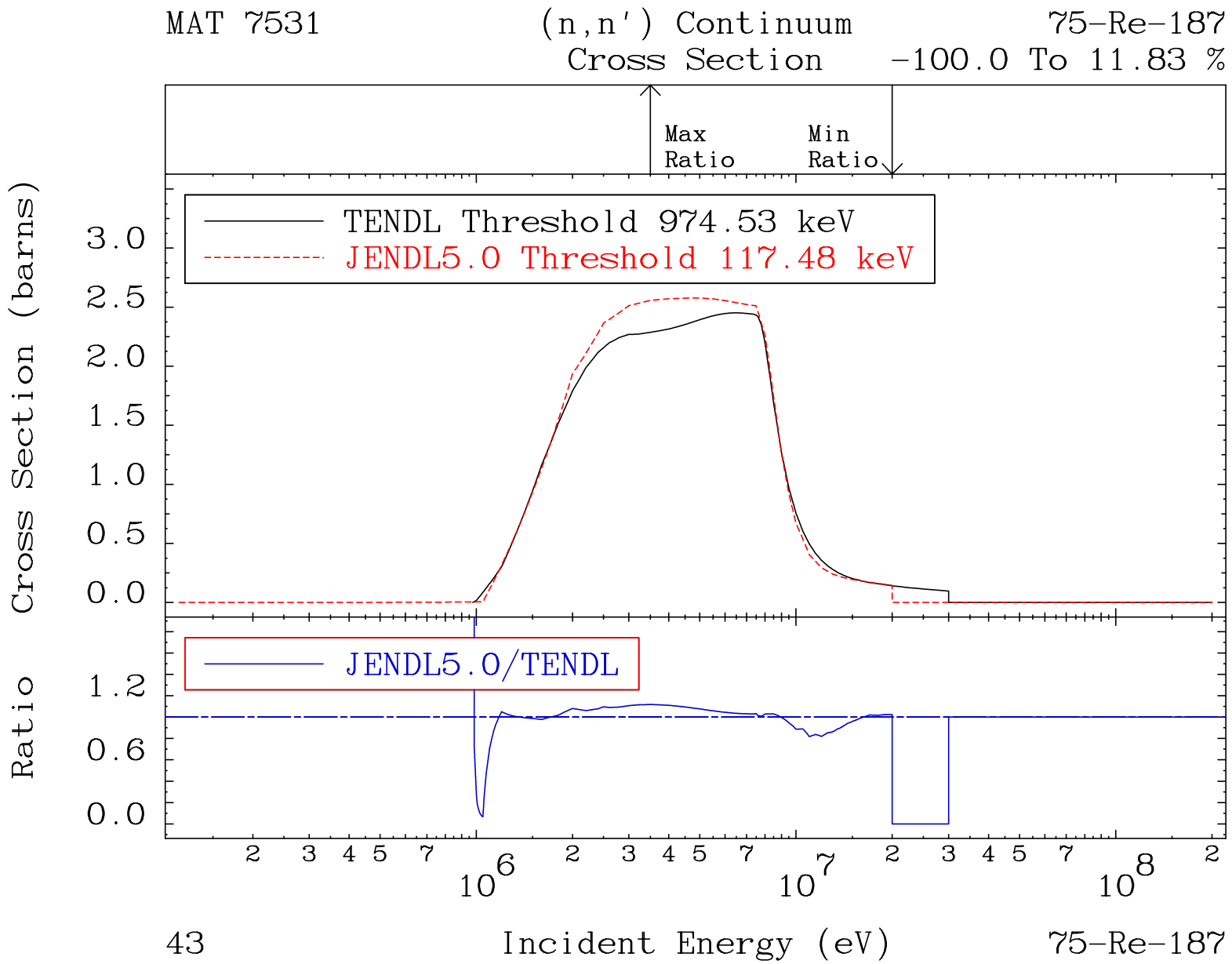

MAT 7531
MT= 76 (n,n') Level
75-Re-187
Cross Section
-100.0 To 160.4 %
Max Ratio
Min Ratio
TENDL Threshold 884.21 keV
JENDL5.0 Threshold 884.21 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
2
3
4
5
6
8
10^6
10^7
10^8
38
Incident Energy (eV)
75-Re-187

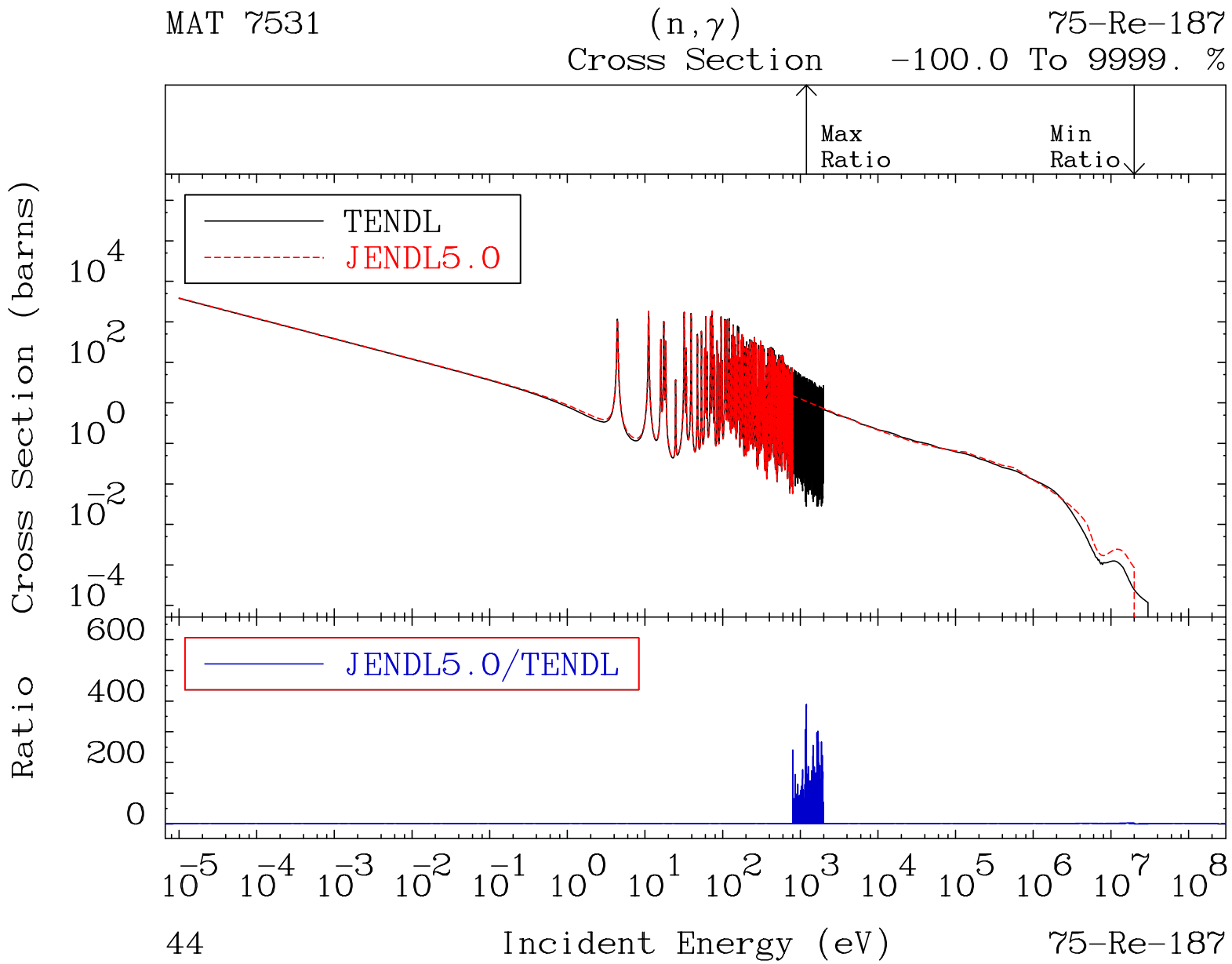

MAT 7531
MT= 77 (n,n') Level
75-Re-187
Cross Section
-100.0 To 414.9 %
Max Ratio
Min Ratio
TENDL Threshold 938.66 keV
JENDL5.0 Threshold 938.66 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
8
4
0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
39
Incident Energy (eV)
75-Re-187

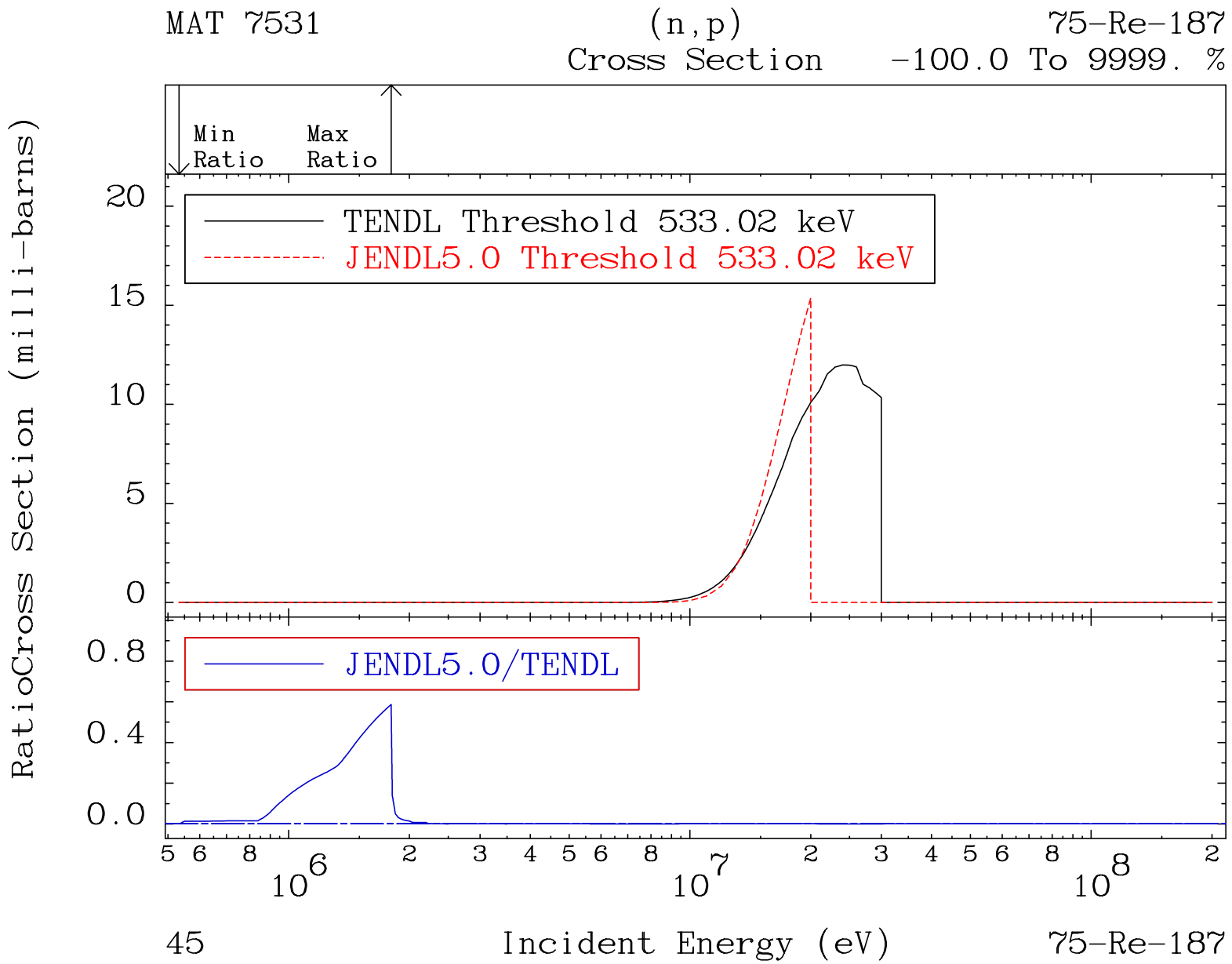

MAT 7531
MT= 78 (n,n') Level
75-Re-187
Cross Section
-100.0 To 369.8 %
Max Ratio
Min Ratio
TENDL Threshold 953.12 keV
JENDL5.0 Threshold 953.12 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
40
75-Re-187

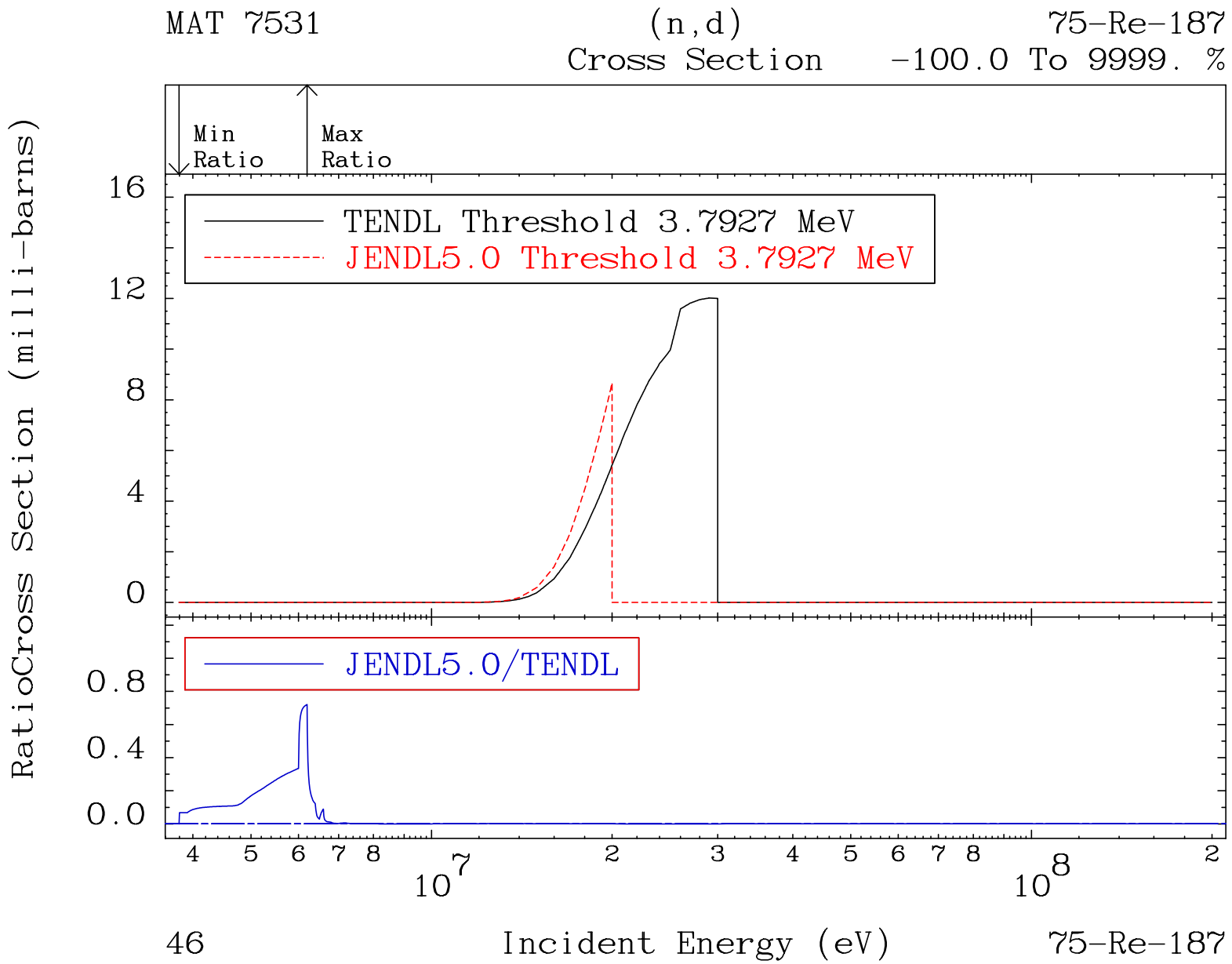

MAT 7531
MT= 79 (n,n') Level
75-Re-187
Cross Section
-100.0 To 401.1 %
Max Ratio
Min Ratio
TENDL Threshold 965.35 keV
JENDL5.0 Threshold 965.35 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
4
0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
41
Incident Energy (eV)
75-Re-187

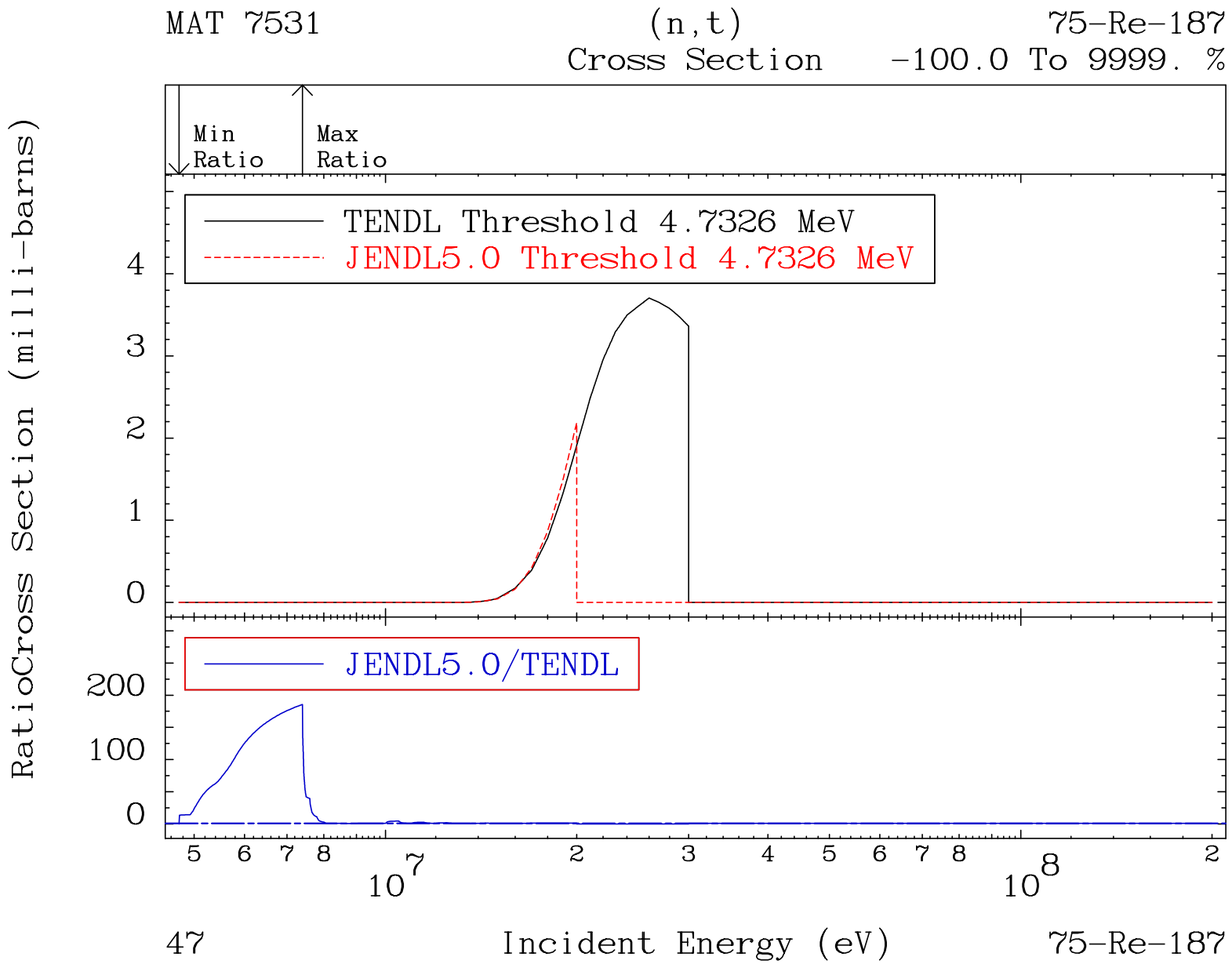

MAT 7531
MT= 80 (n,n') Level
75-Re-187
Cross Section
-100.0 To 436.3 %
Max Ratio
Min Ratio
TENDL Threshold 974.53 keV
JENDL5.0 Threshold 974.53 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
8
4
0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
42
Incident Energy (eV)
75-Re-187

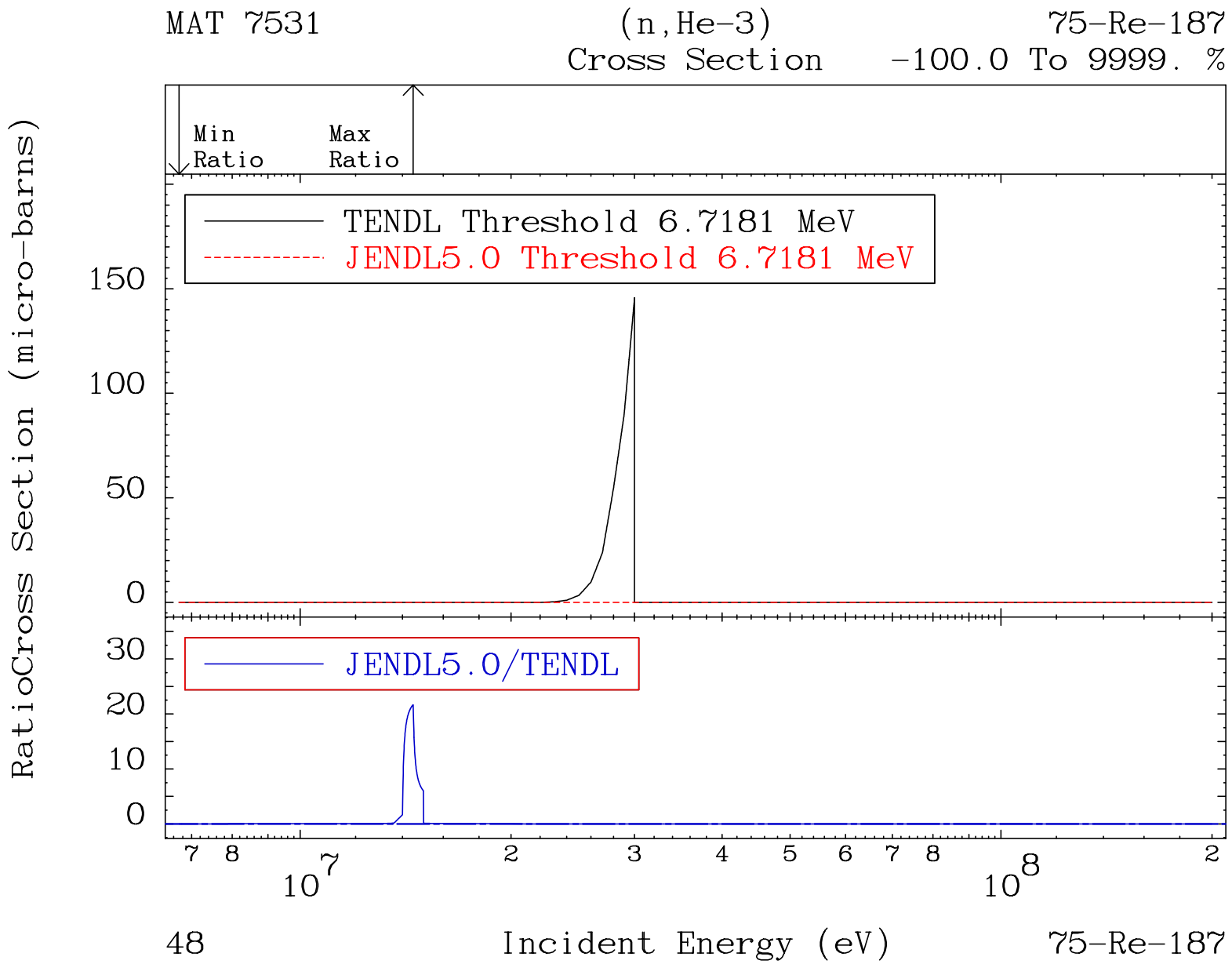

MAT 7531
(n,n') Continuum
Cross Section
75-Re-187
-100.0 To 11.83 %
Max Ratio
Min Ratio
TENDL Threshold 974.53 keV
JENDL5.0 Threshold 117.48 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
43
Incident Energy (eV)
75-Re-187

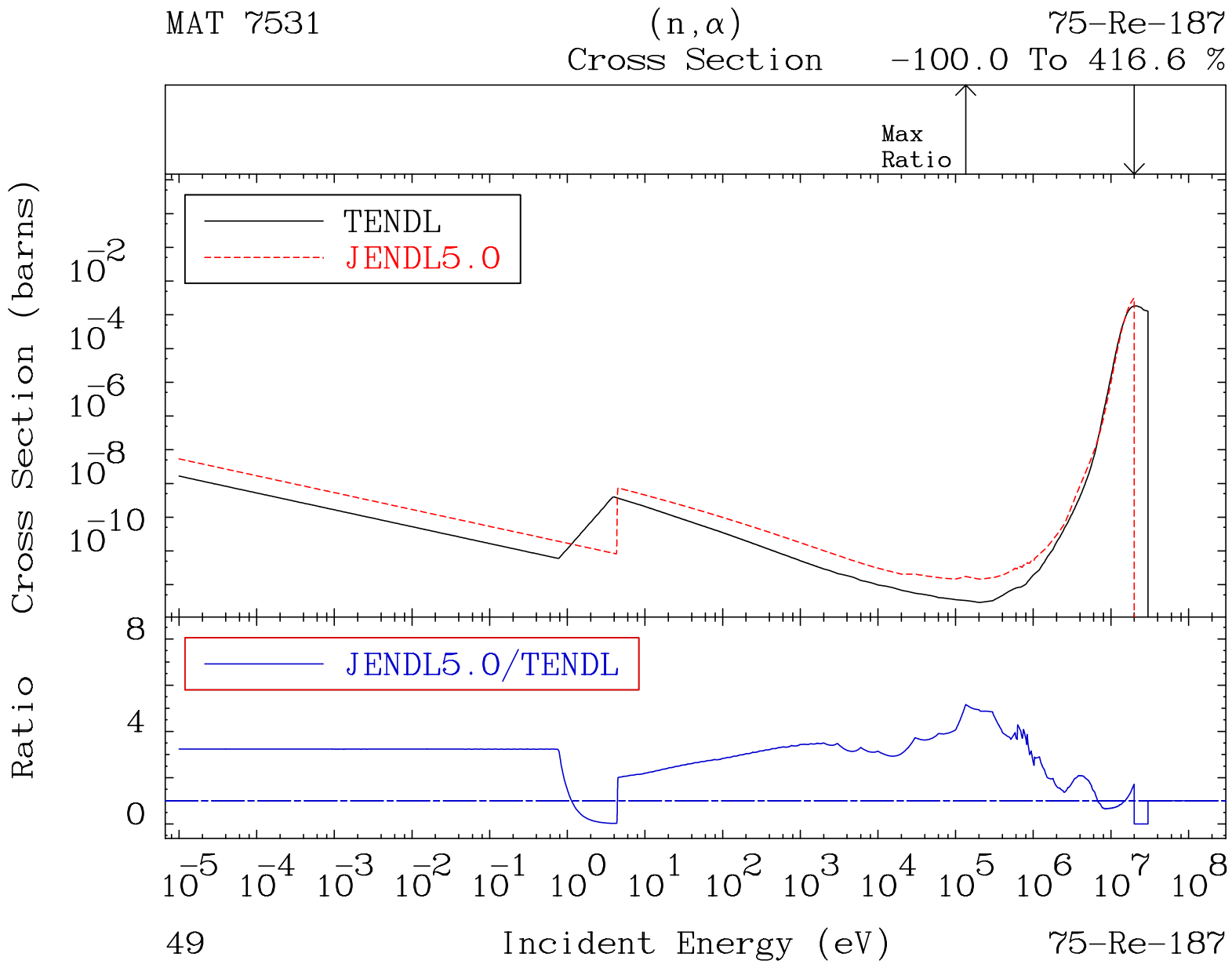

MAT 7531
(n,γ)
Cross Section
75-Re-187
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
75-Re-187

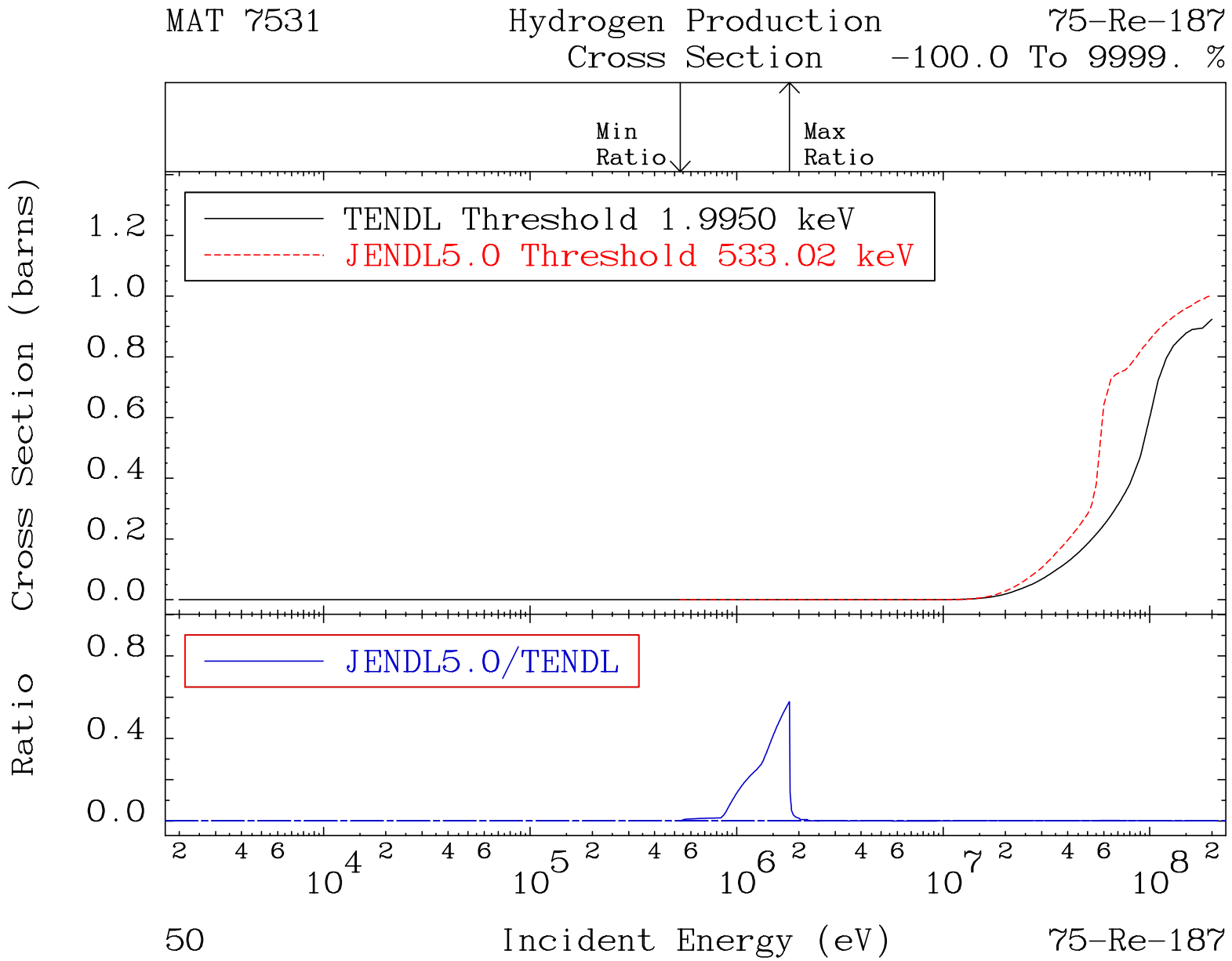

MAT 7531
(n,p)
75-Re-187
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 533.02 keV
JENDL5.0 Threshold 533.02 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
0.8
0.4
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
45
Incident Energy (eV)
75-Re-187

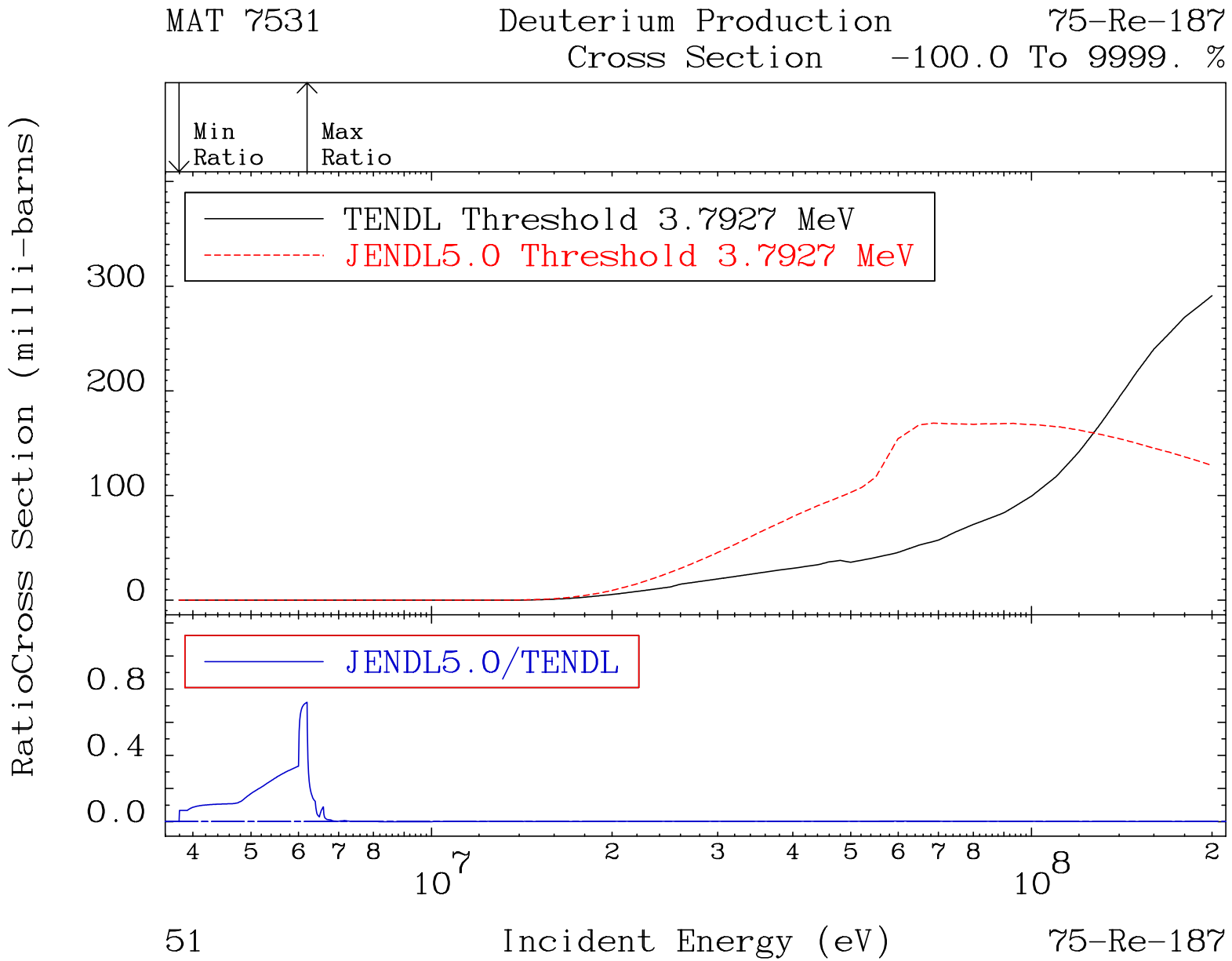

MAT 7531
(n,d)
75-Re-187
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.7927 MeV
JENDL5.0 Threshold 3.7927 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
0.8
0.4
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
46
Incident Energy (eV)
75-Re-187

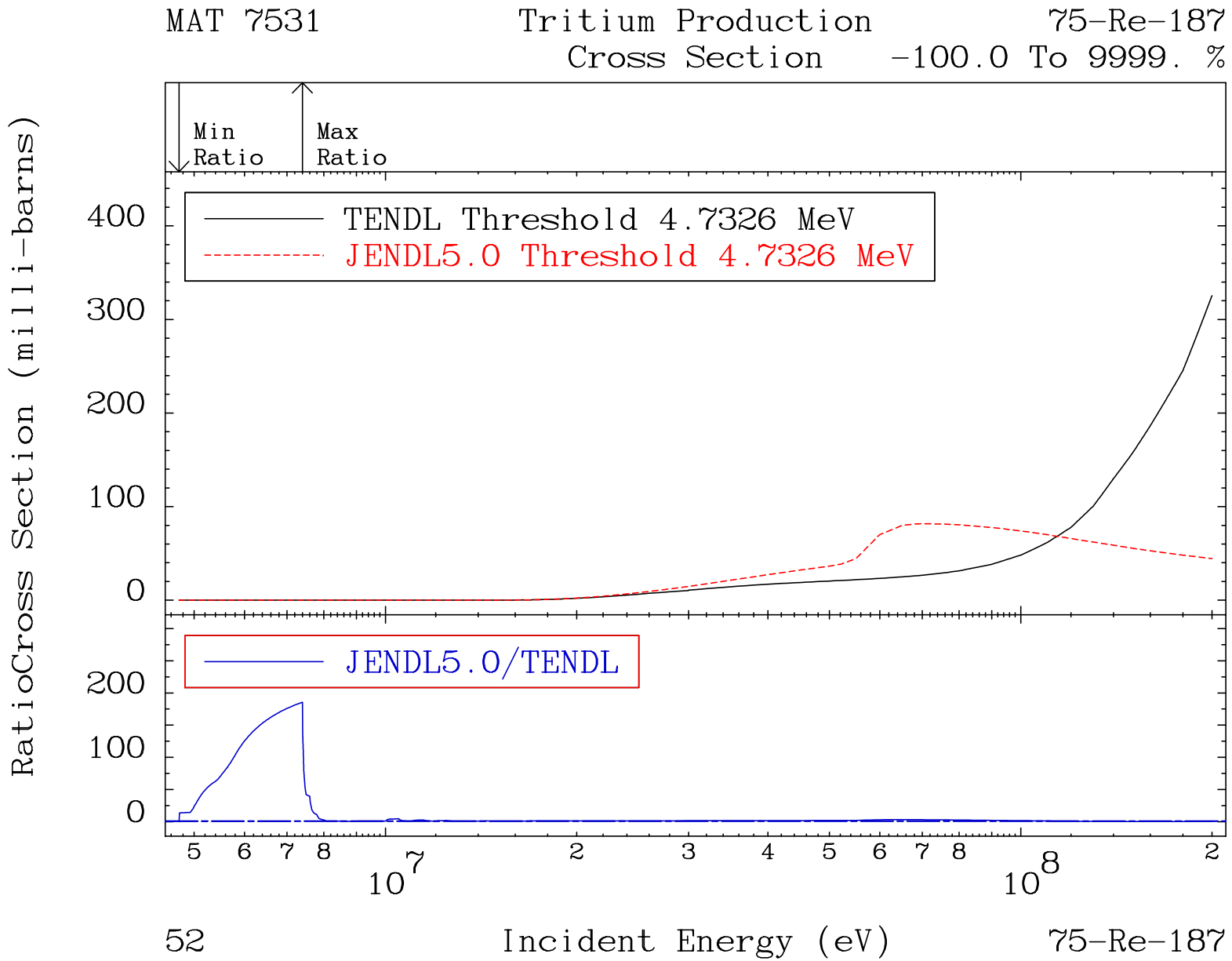

MAT 7531
(n,t)
75-Re-187
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.7326 MeV
JENDL5.0 Threshold 4.7326 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
47
75-Re-187

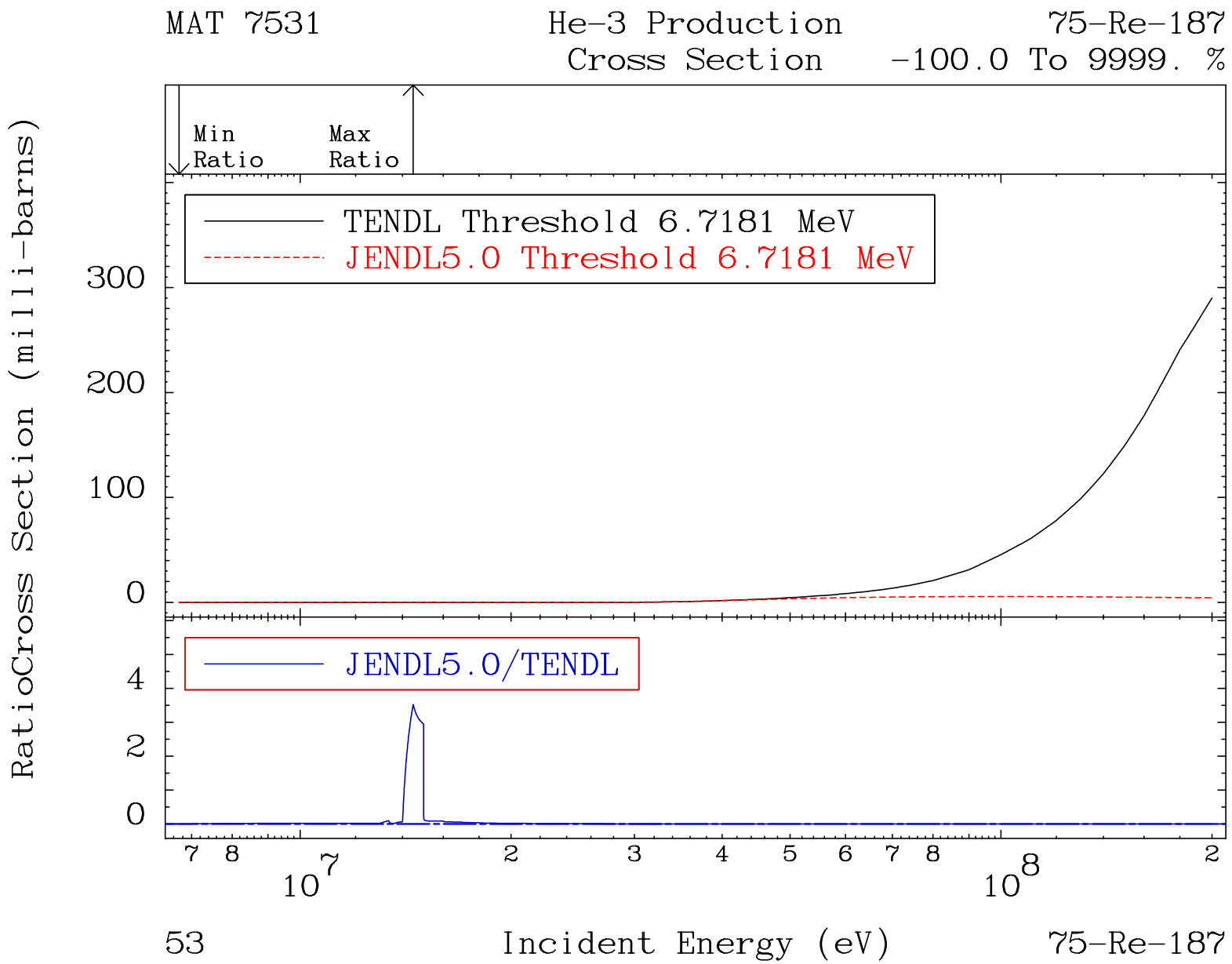

MAT 7531
(n,He-3)
75-Re-187
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.7181 MeV
JENDL5.0 Threshold 6.7181 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
150
100
50
0
30
20
10
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
48
Incident Energy (eV)
75-Re-187

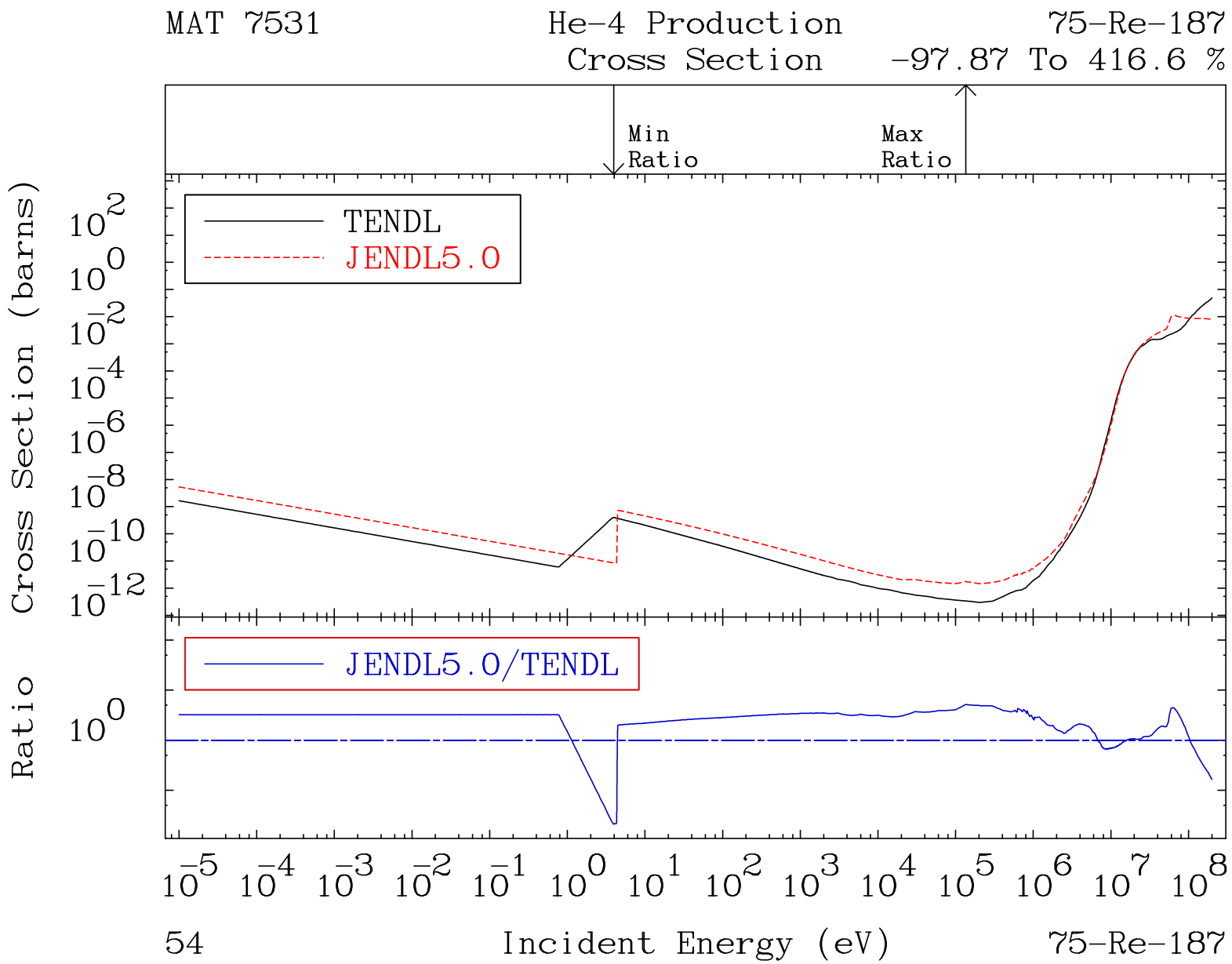

MAT 7531
(n,α)
Cross Section
75-Re-187
-100.0 To 416.6 %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
75-Re-187

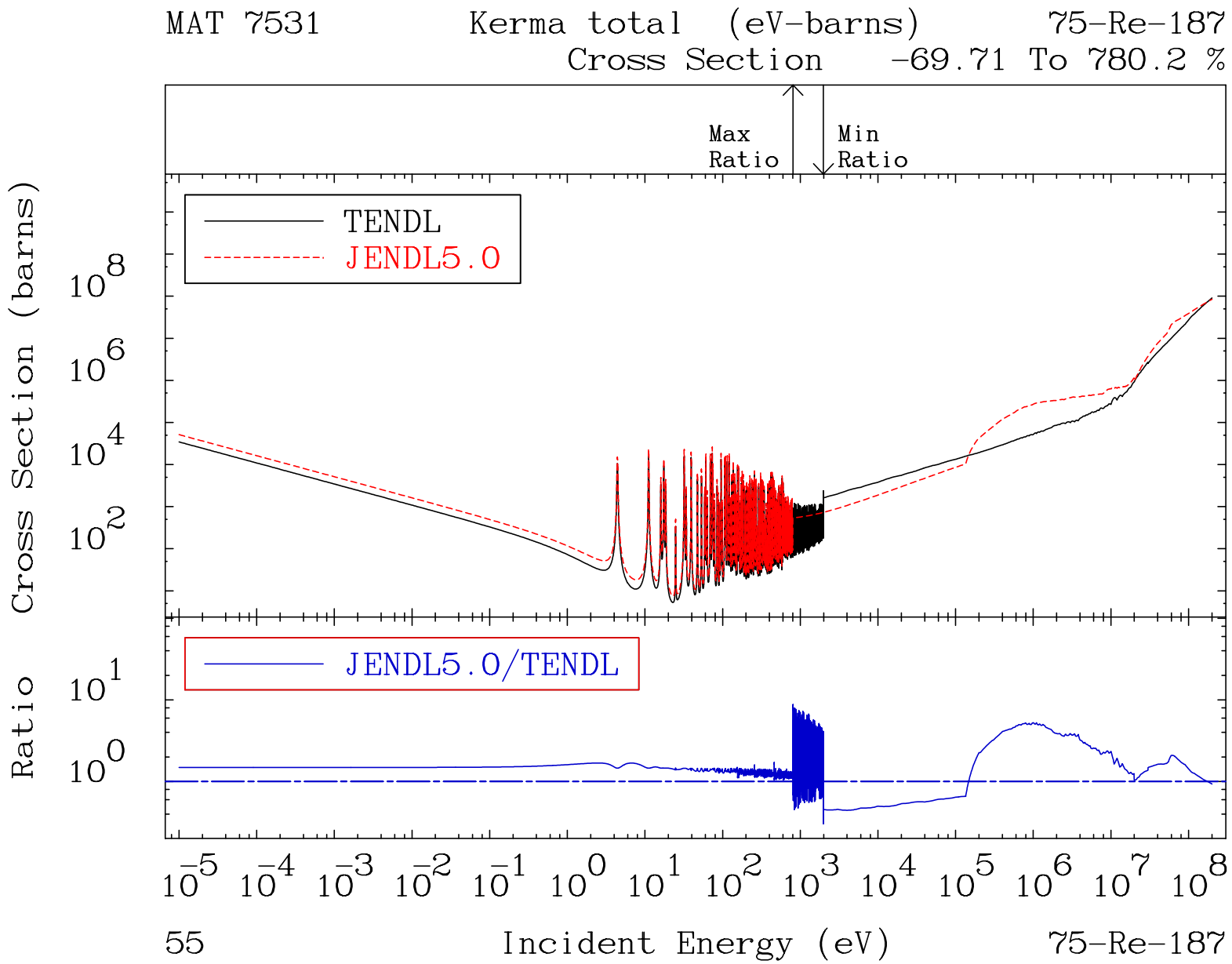

MAT 7531
Hydrogen Production
75-Re-187
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.9950 keV
JENDL5.0 Threshold 533.02 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.8
0.4
0.0
2 4 6 10^4 2 4 6 10^5 2 4 6 10^6 2 4 6 10^7 2 4 6 10^8 2
50
Incident Energy (eV)
75-Re-187

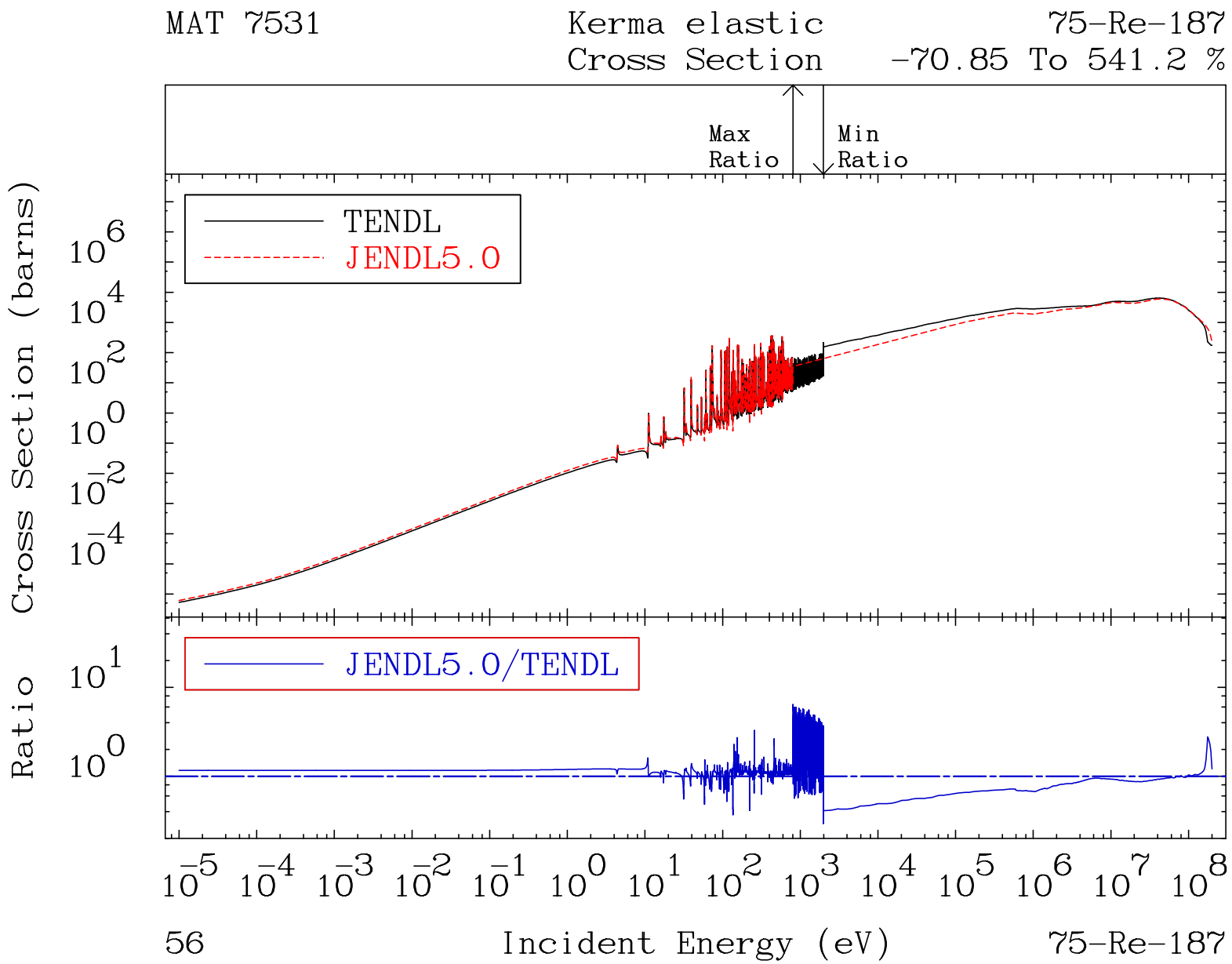

MAT 7531
Deuterium Production
75-Re-187
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.7927 MeV
JENDL5.0 Threshold 3.7927 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
0.8
0.4
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
51
Incident Energy (eV)
75-Re-187

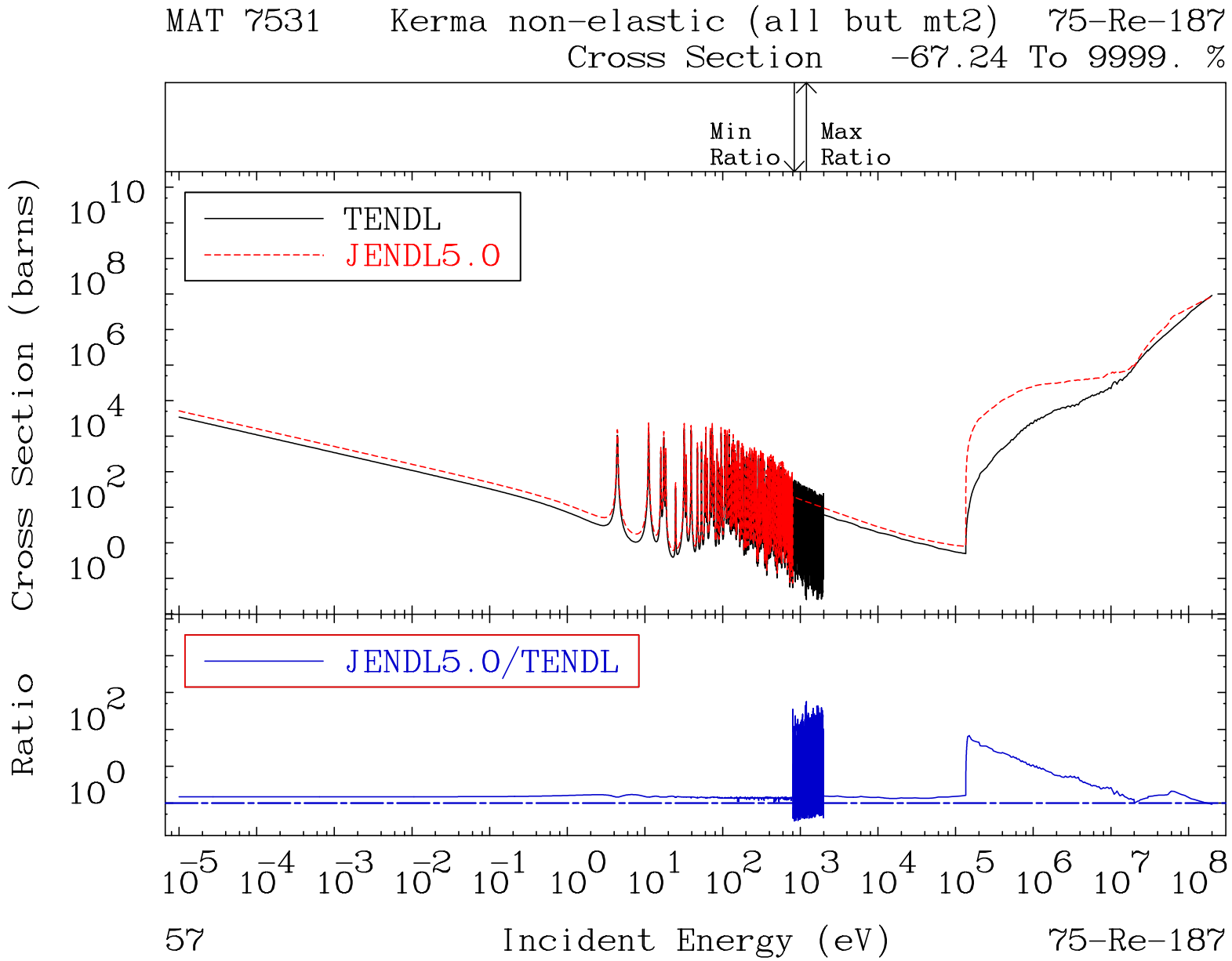

MAT 7531
Tritium Production
75-Re-187
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.7326 MeV
JENDL5.0 Threshold 4.7326 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
200
100
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
52
Incident Energy (eV)
75-Re-187

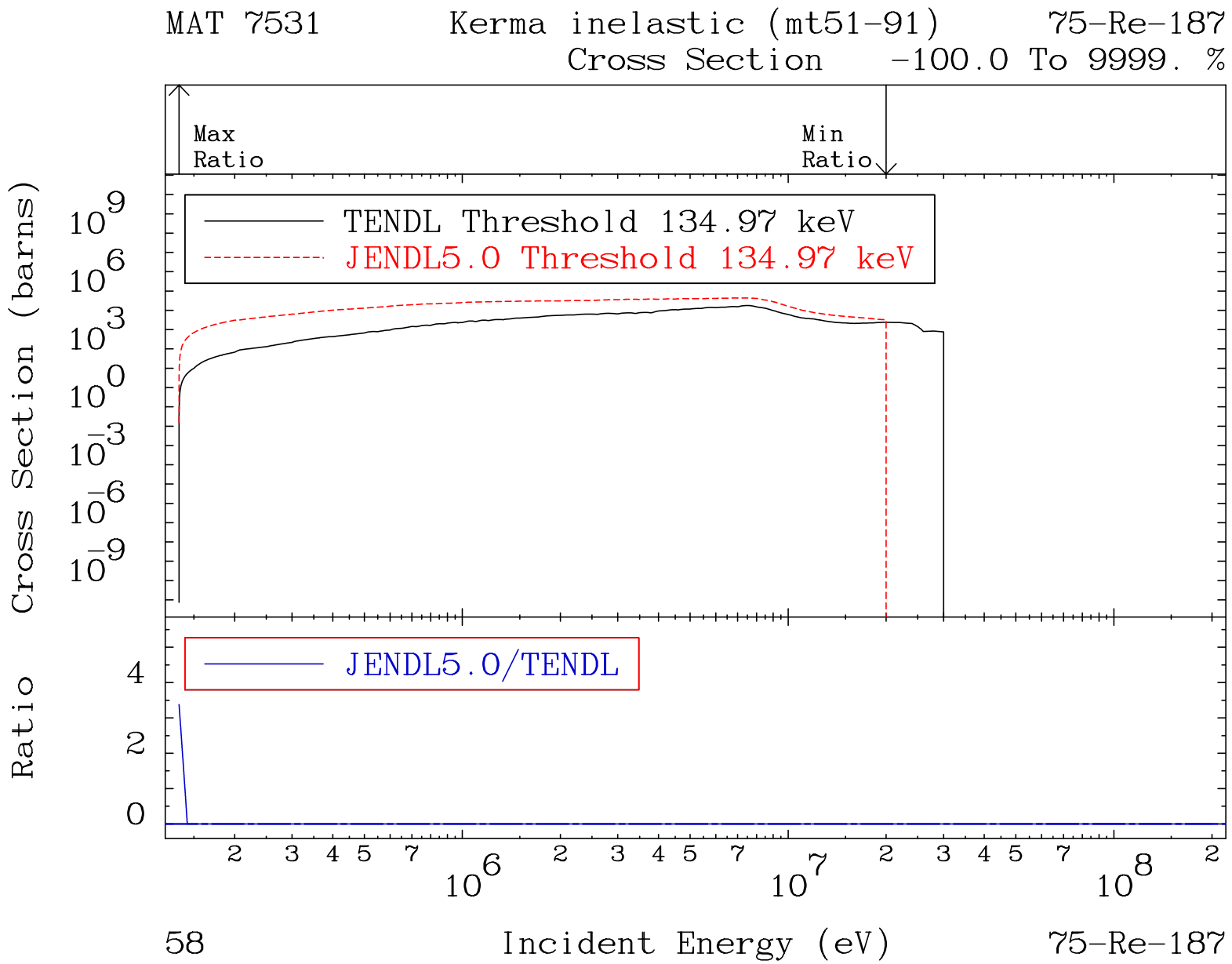

MAT 7531
He-3 Production
Cross Section
75-Re-187
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.7181 MeV
JENDL5.0 Threshold 6.7181 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
4
2
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
53
Incident Energy (eV)
75-Re-187

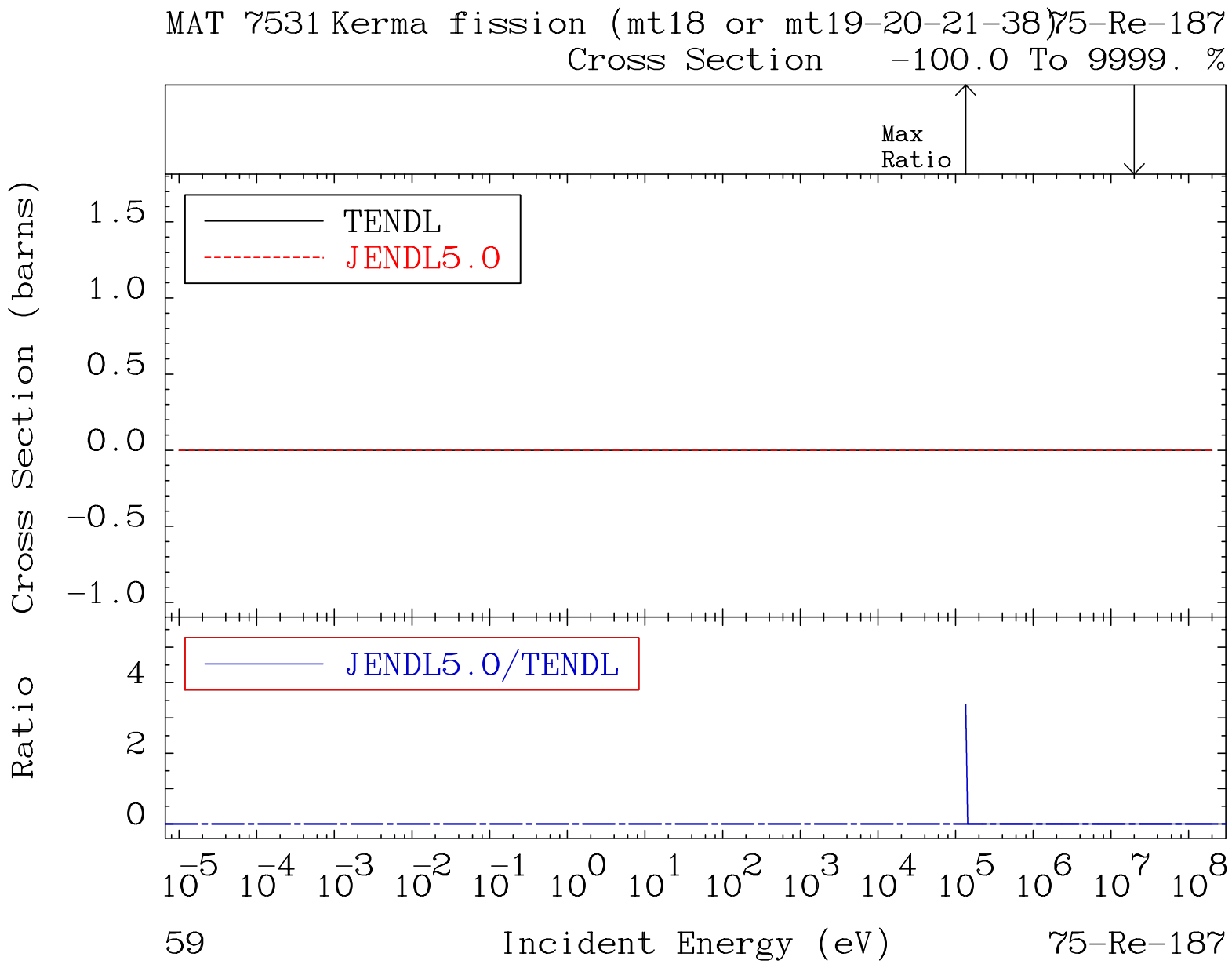

MAT 7531
He-4 Production
Cross Section
75-Re-187
-97.87 To 416.6 %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
75-Re-187

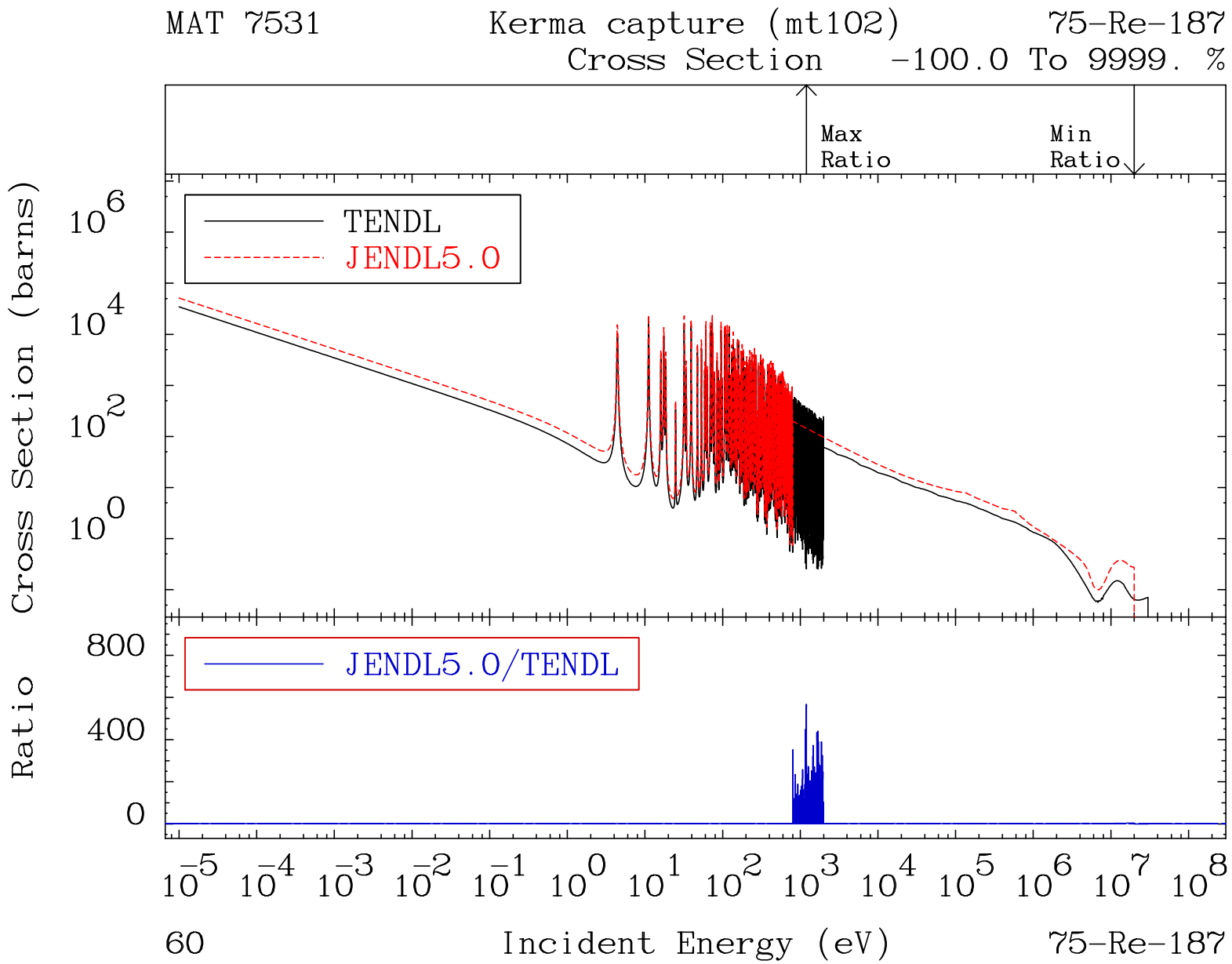

MAT 7531
Kerma total (eV-barns)
75-Re-187
Cross Section -69.71 To 780.2 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
55
75-Re-187

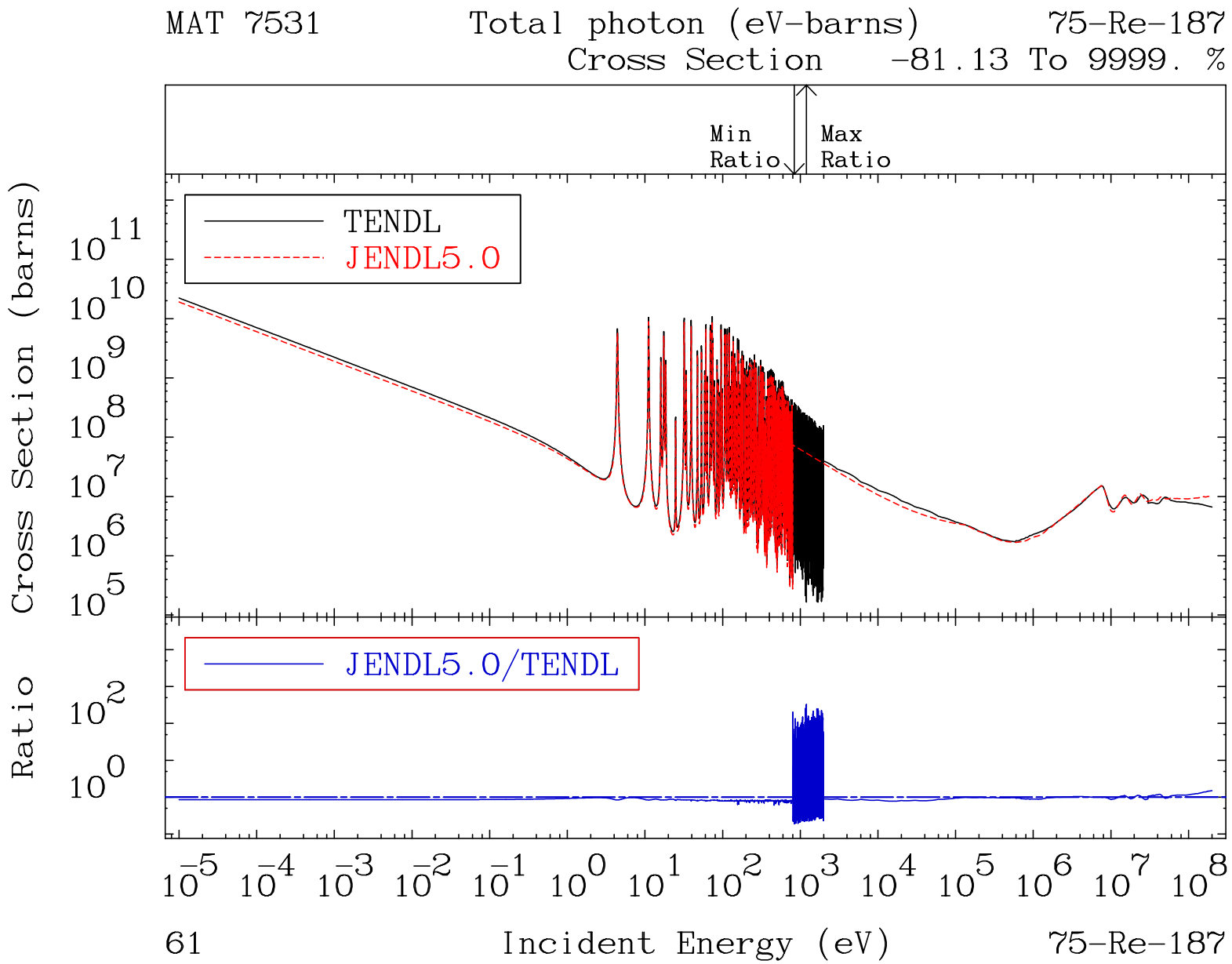

MAT 7531
Kerma elastic
Cross Section
75-Re-187
-70.85 To 541.2 %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
75-Re-187

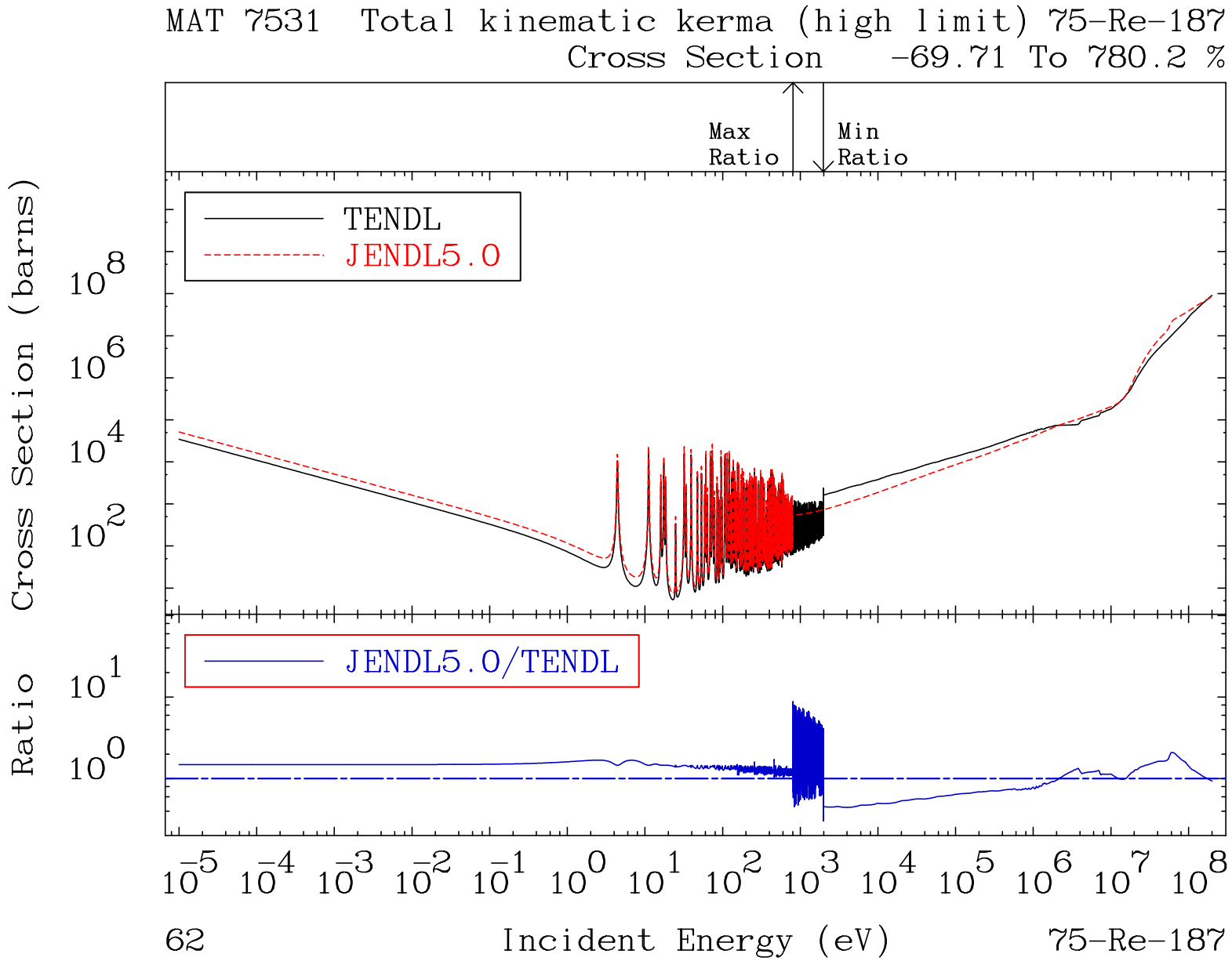

MAT 7531 Kerma non-elastic (all but mt2) 75-Re-187
Cross Section -67.24 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
75-Re-187

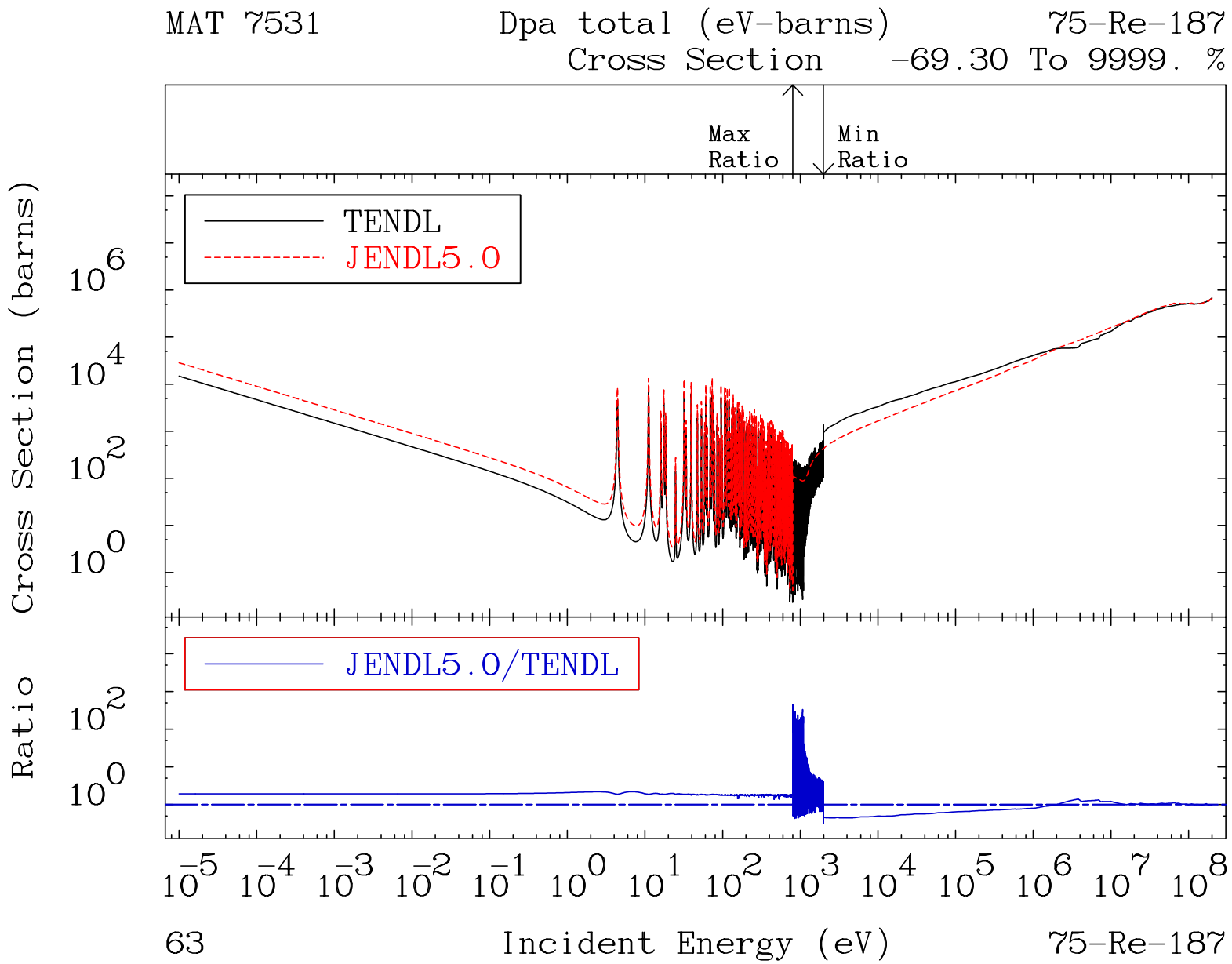

MAT 7531
Kerma inelastic (mt51-91)
75-Re-187
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 134.97 keV
JENDL5.0 Threshold 134.97 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
75-Re-187

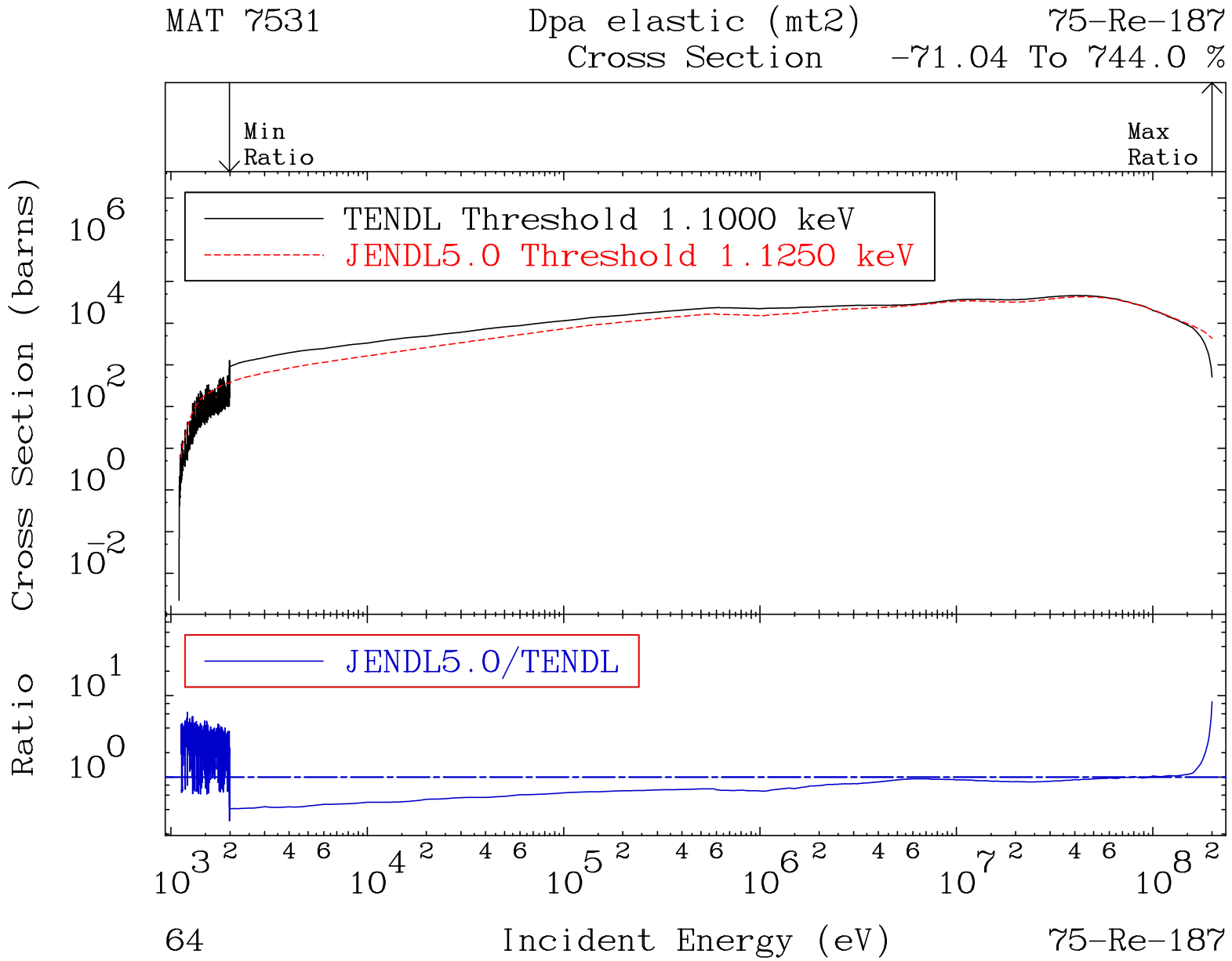

MAT 7531 Kerma fission (mt18 or mt19-20-21-38) 75-Re-187
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
4
2
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
59
Incident Energy (eV)
75-Re-187

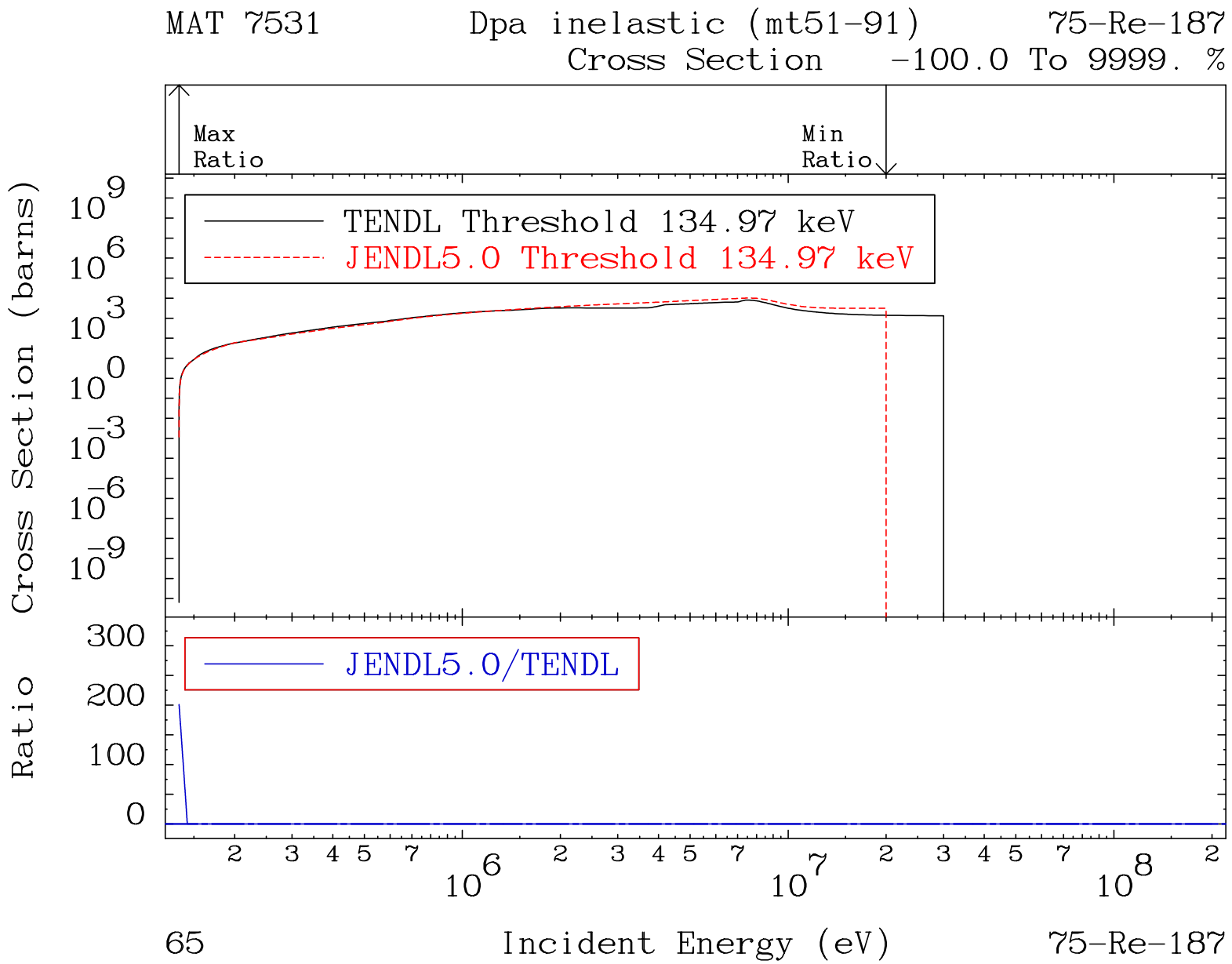

MAT 7531
Kerma capture (mt102)
75-Re-187
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
60
75-Re-187

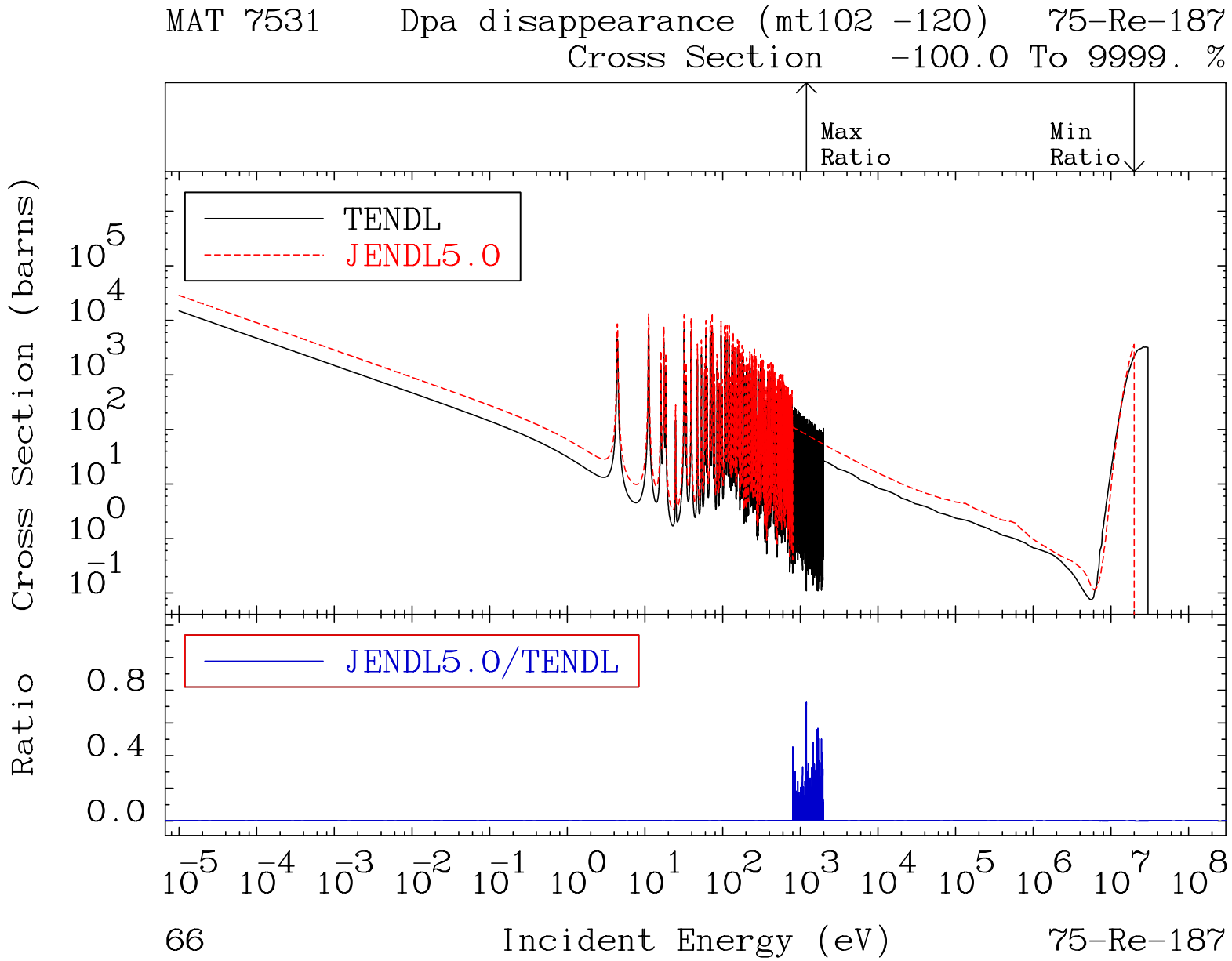

MAT 7531
Total photon (eV-barns)
75-Re-187
Cross Section -81.13 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
61
75-Re-187

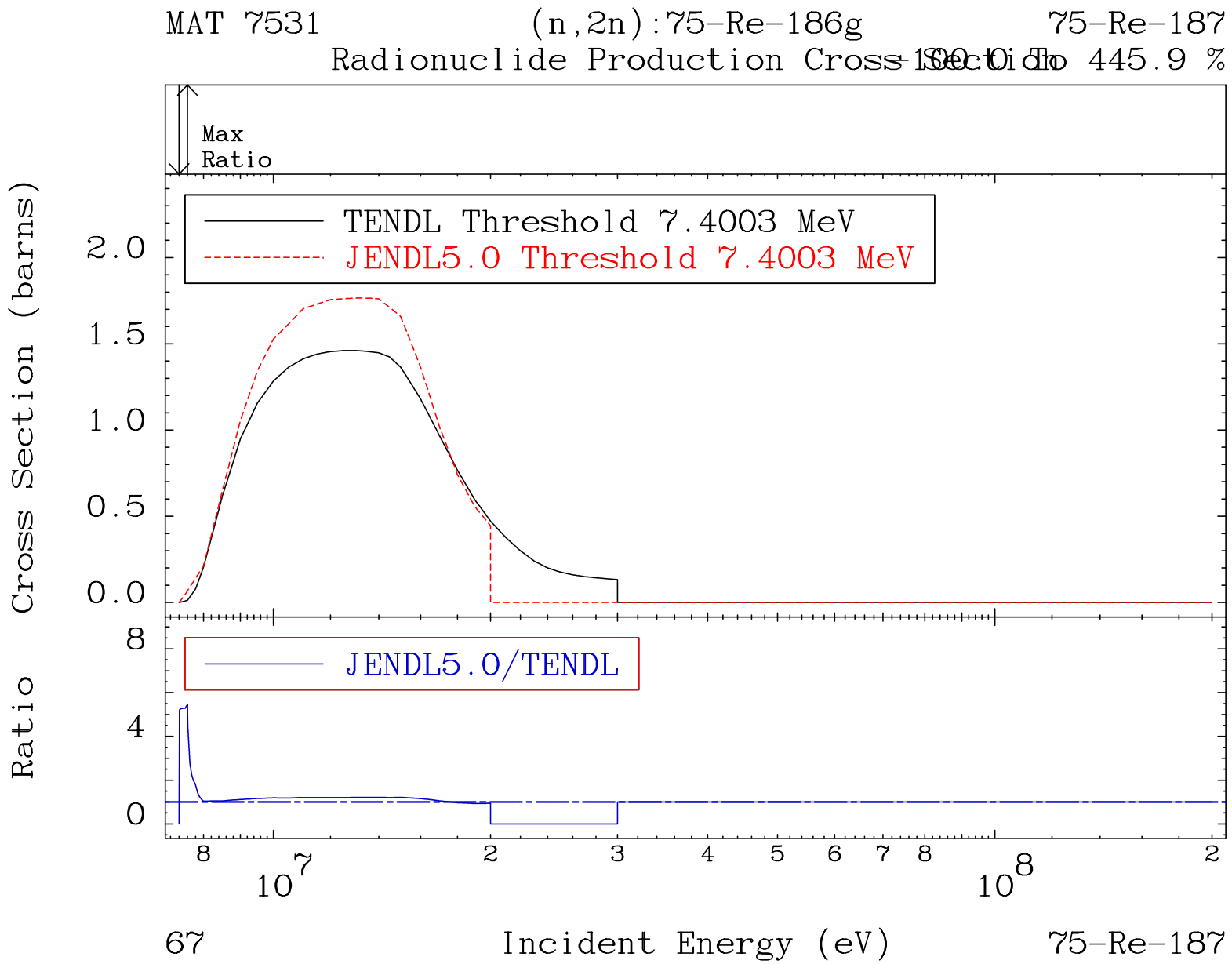

MAT 7531 Total kinematic kerma (high limit) 75-Re-187
Cross Section -69.71 To 780.2 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
75-Re-187

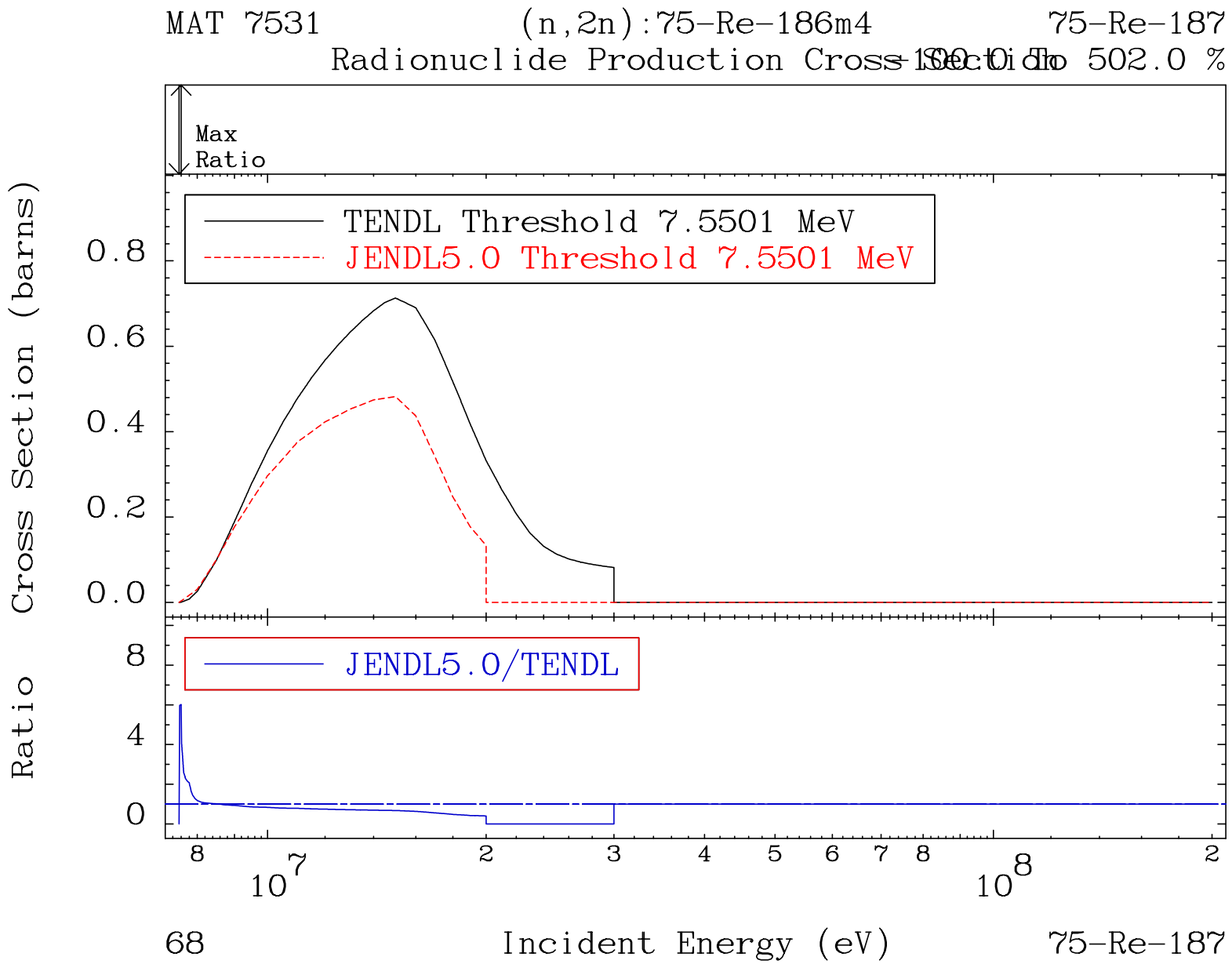

MAT 7531
Dpa total (eV-barns)
75-Re-187
Cross Section -69.30 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
75-Re-187

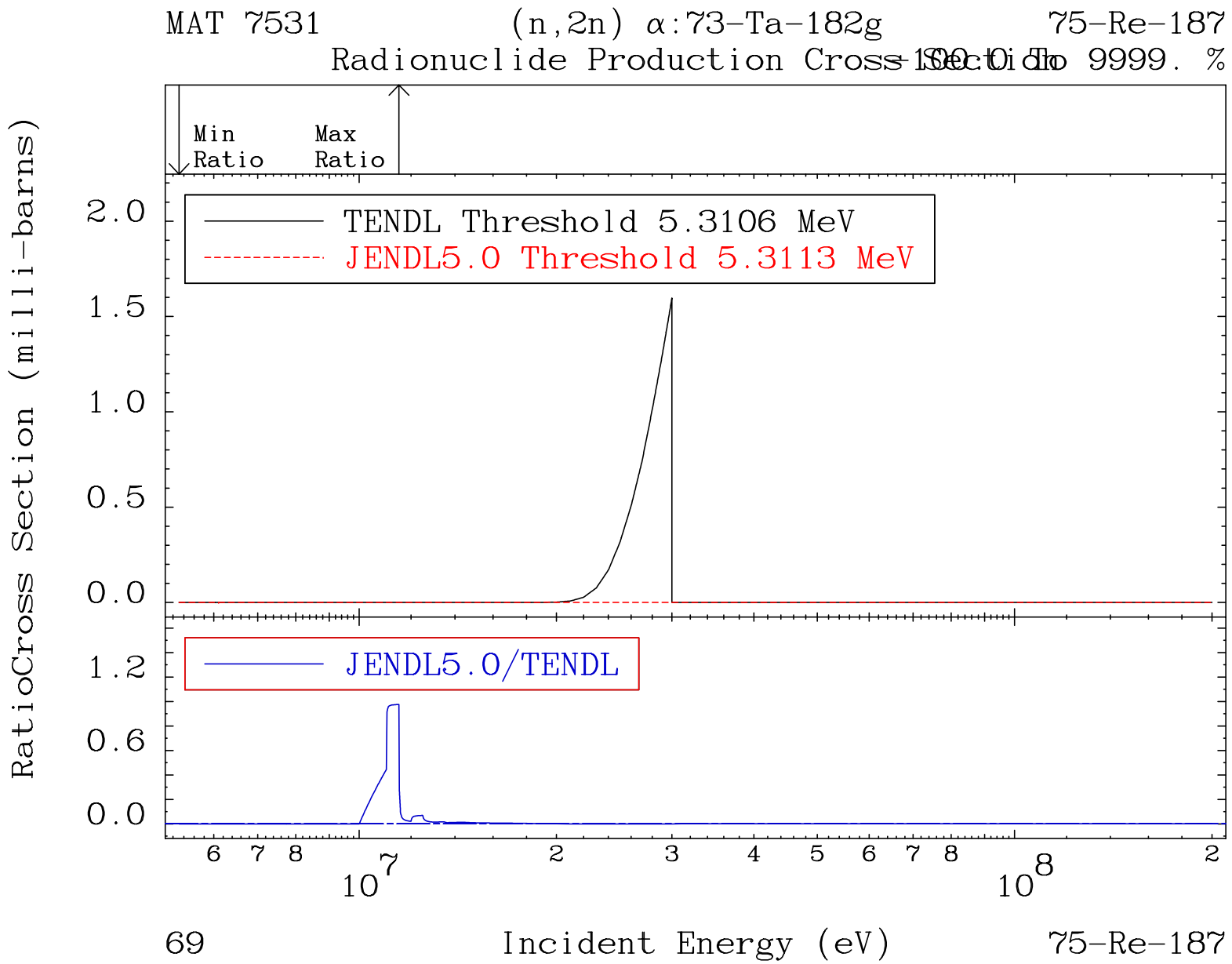

MAT 7531
Dpa elastic (mt2)
Cross Section
75-Re-187
-71.04 To 744.0 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1000 keV
JENDL5.0 Threshold 1.1250 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
75-Re-187

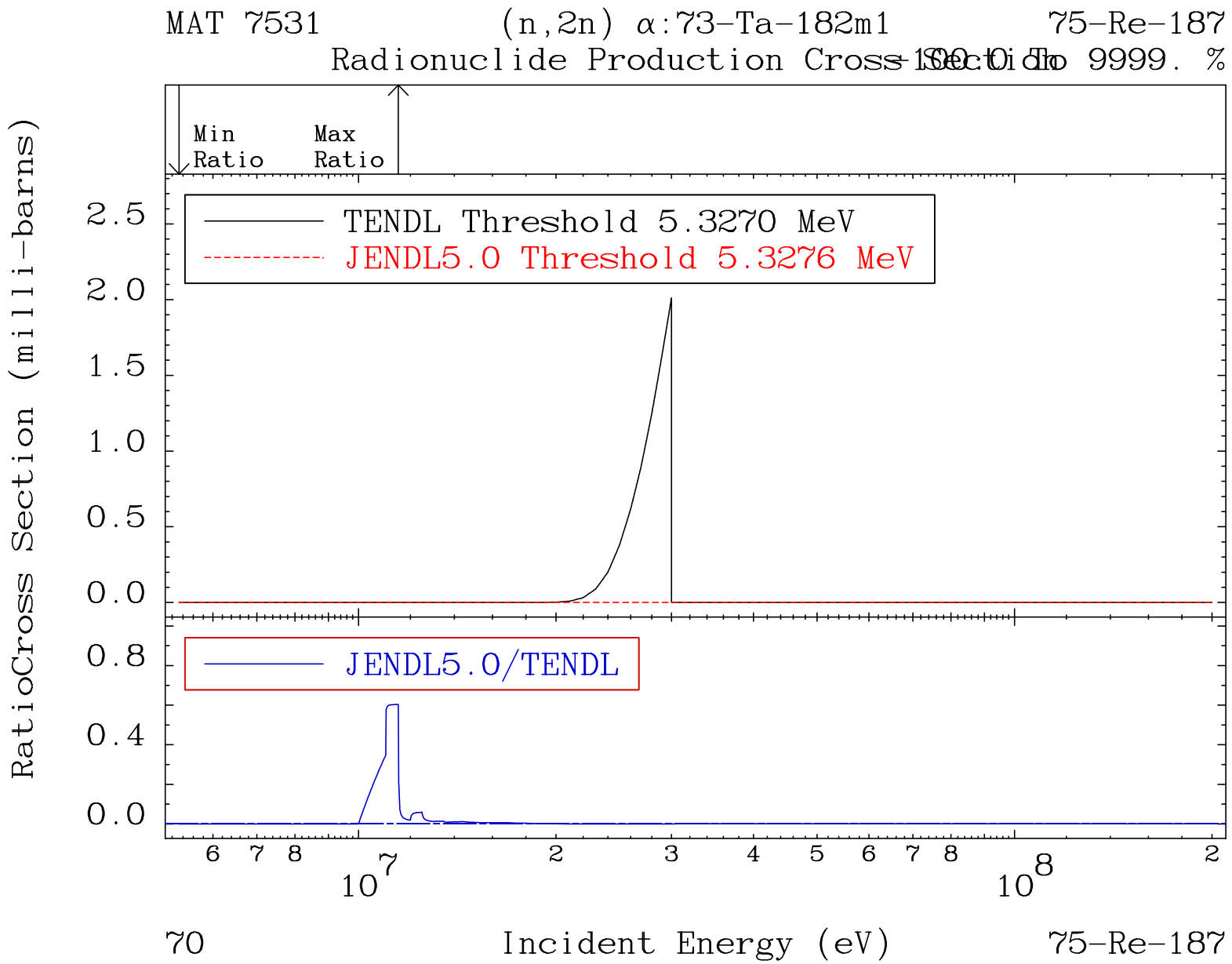

MAT 7531
Dpa inelastic (mt51-91)
75-Re-187
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 134.97 keV
JENDL5.0 Threshold 134.97 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
75-Re-187

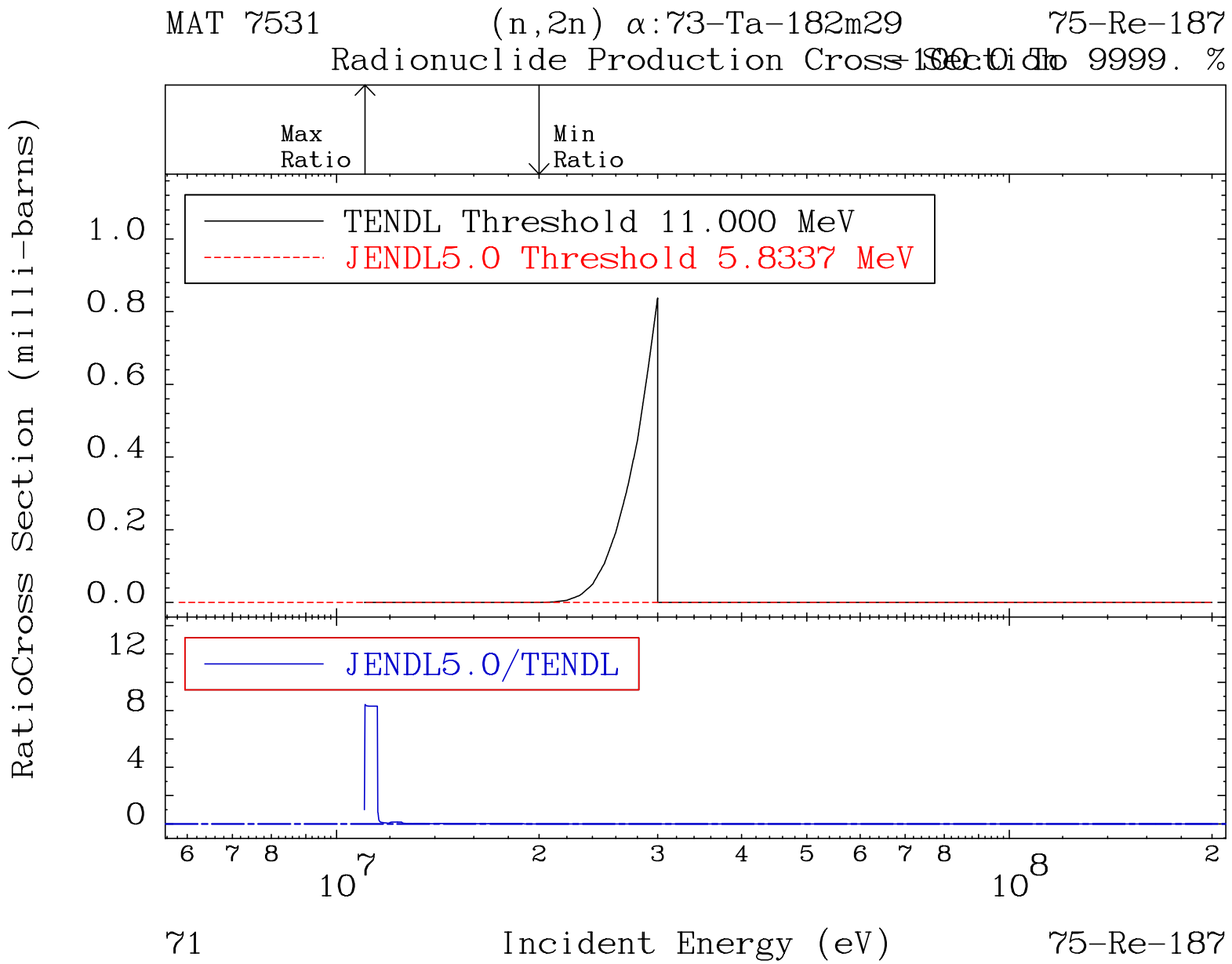

MAT 7531 Dpa disappearance (mt102 -120) 75-Re-187
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
66
75-Re-187

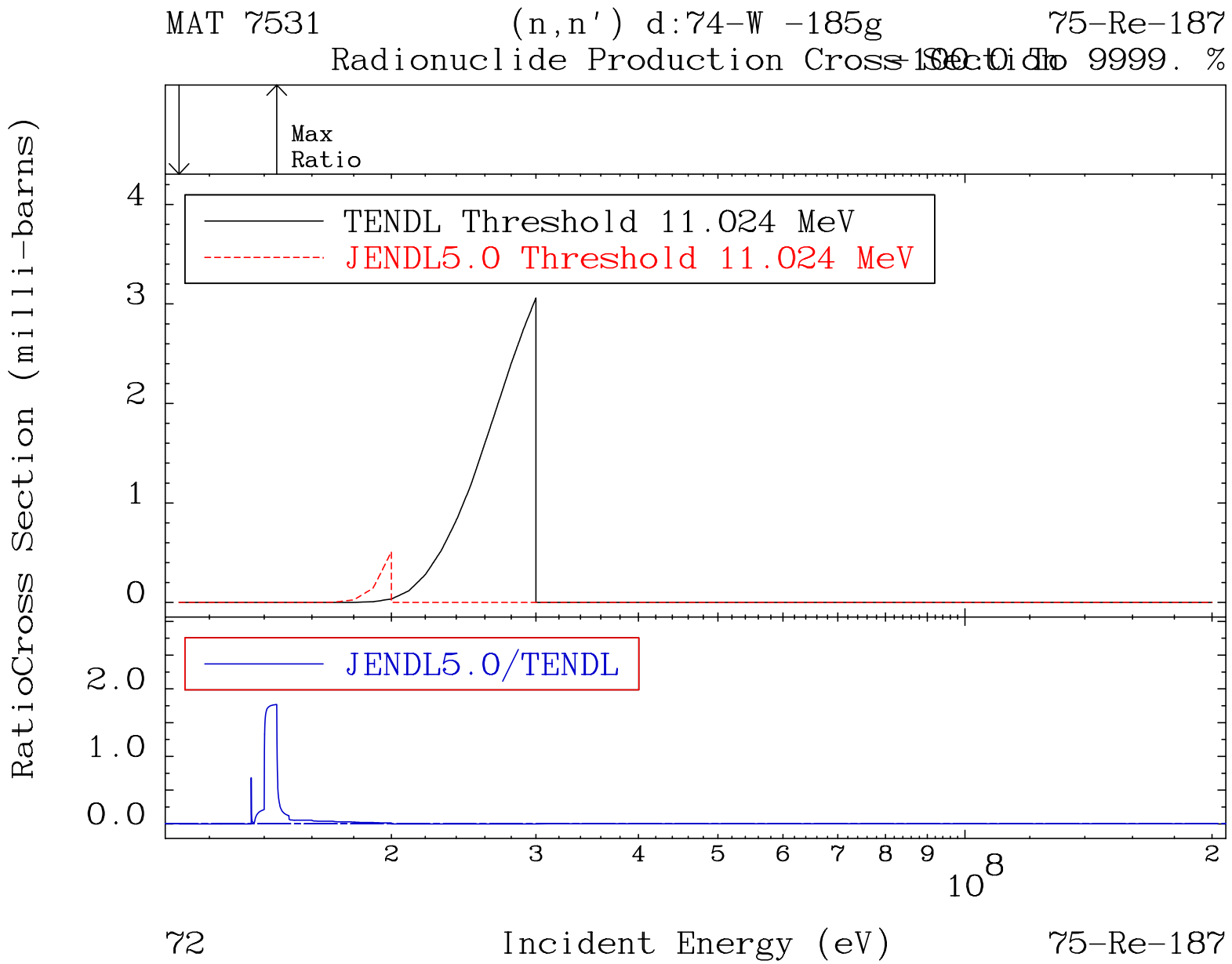

MAT 7531
(n,2n):75-Re-186g
75-Re-187
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 7.4003 MeV
JENDL5.0 Threshold 7.4003 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
8
4
0
8
2
3
4
5
6
7
8
2
10^7
10^8
67
Incident Energy (eV)
75-Re-187

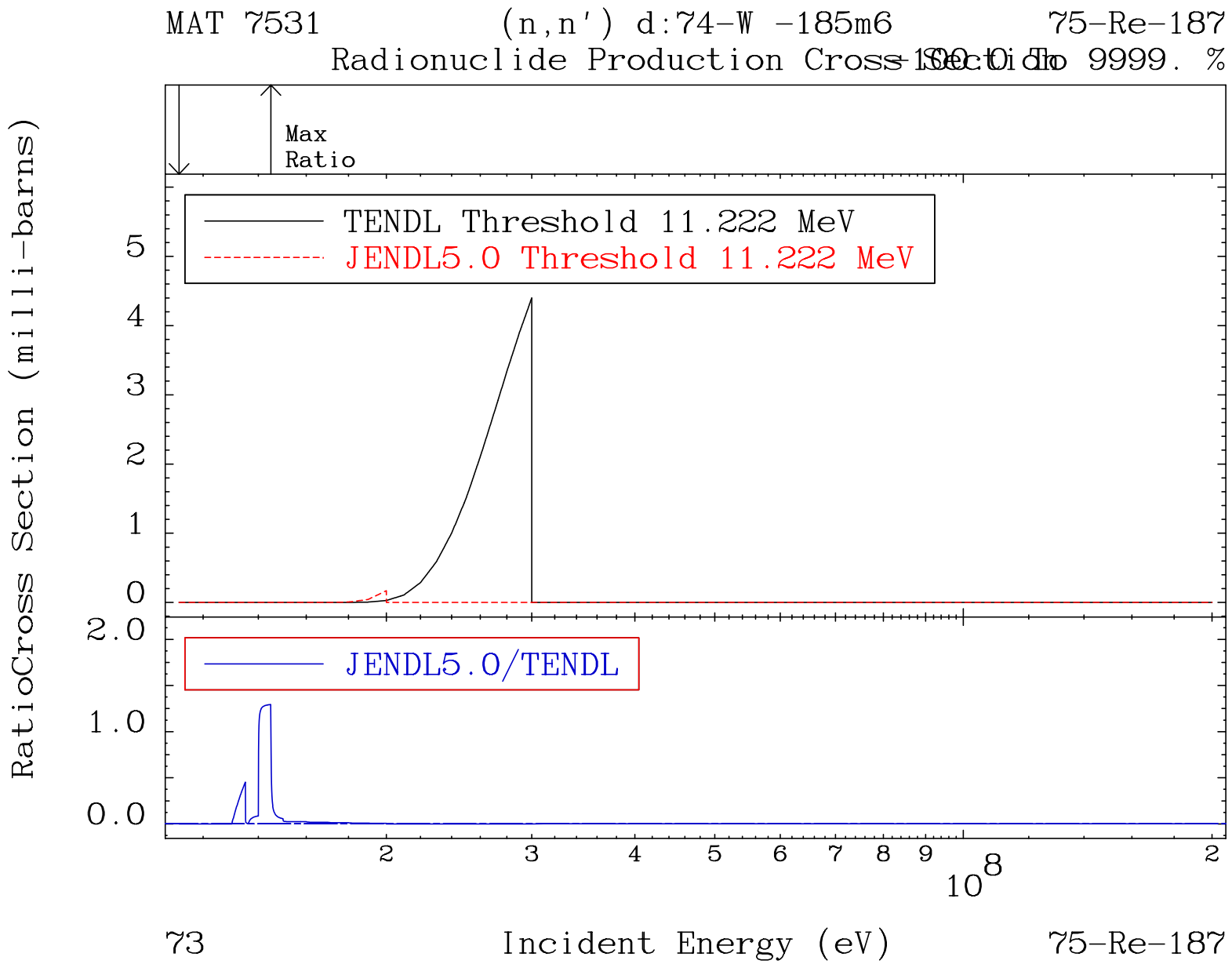

MAT 7531
(n,2n):75-Re-186m4
75-Re-187
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 7.5501 MeV
JENDL5.0 Threshold 7.5501 MeV
Cross Section (barns)
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
8
4
0
8
2
3
4
5
6
7
8
10^7
10^8
2
68
Incident Energy (eV)
75-Re-187

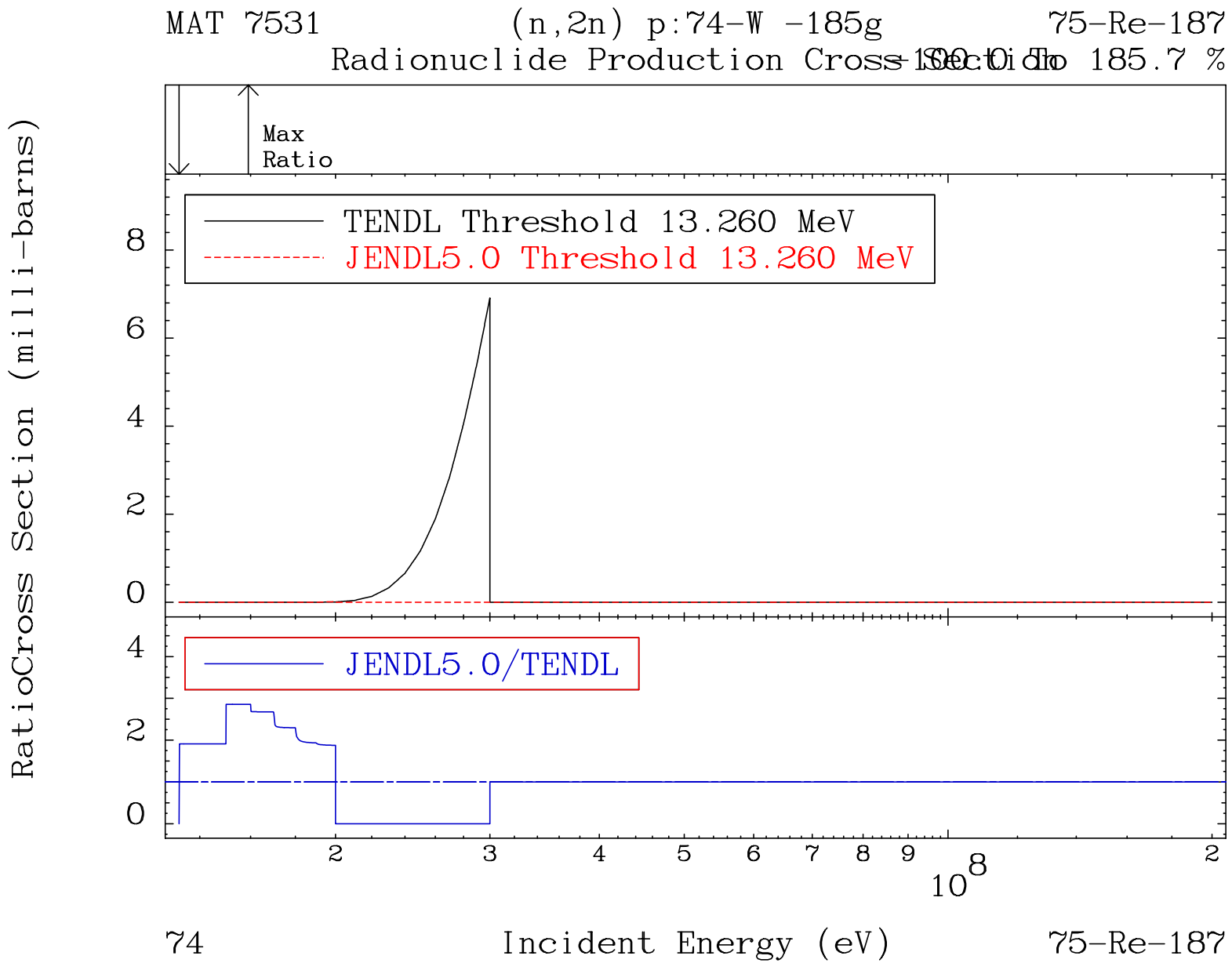

MAT 7531
(n,2n) α:73-Ta-182g
75-Re-187
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 5.3106 MeV
JENDL5.0 Threshold 5.3113 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
75-Re-187

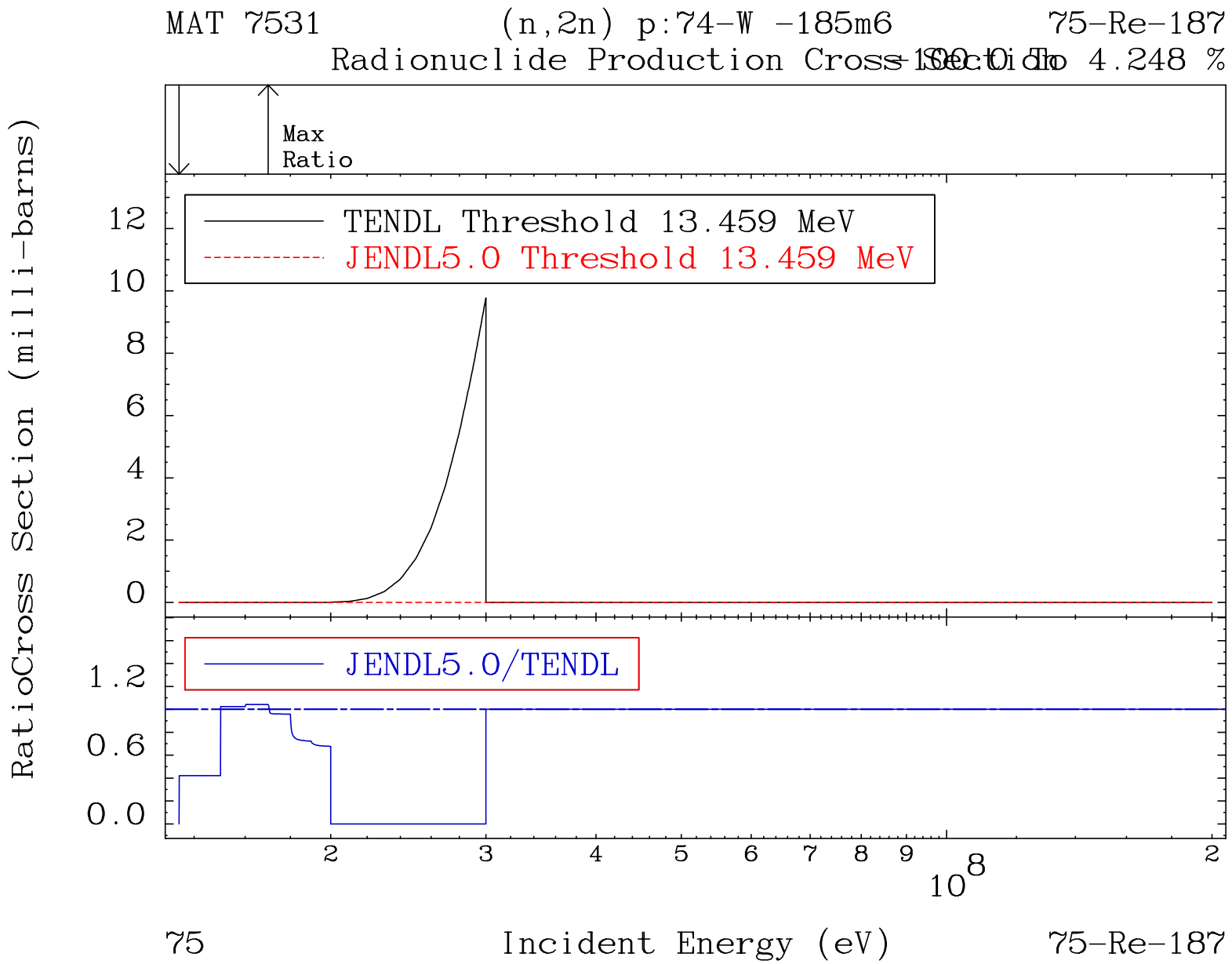

MAT 7531
(n,2n) α:73-Ta-182m1
75-Re-187
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 5.3270 MeV
JENDL5.0 Threshold 5.3276 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
70
75-Re-187

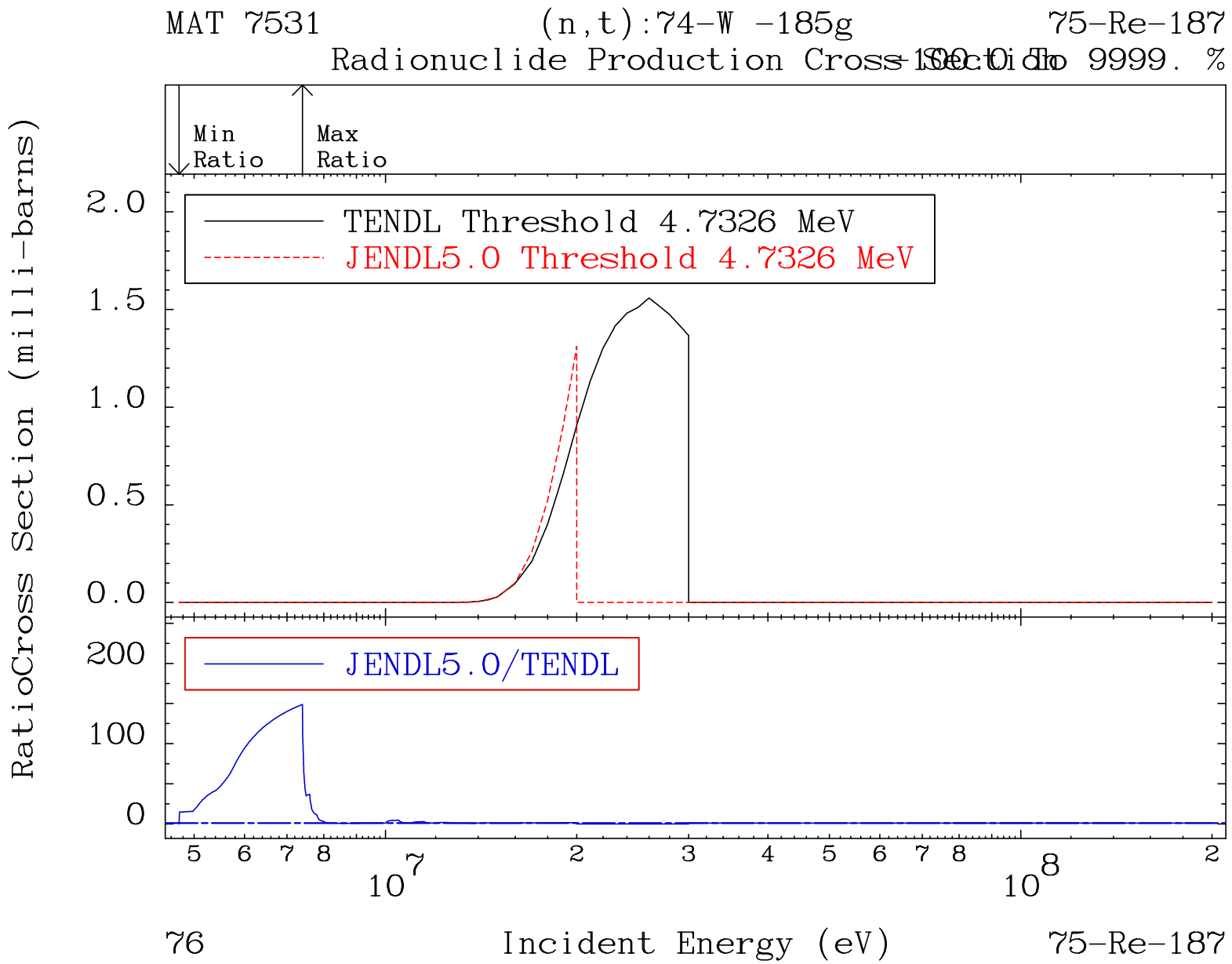

MAT 7531
(n,2n) α:73-Ta-182m29
75-Re-187
Radionuclide Production Cross Section
1.00 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.000 MeV
JENDL5.0 Threshold 5.8337 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
12
8
4
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
71
Incident Energy (eV)
75-Re-187

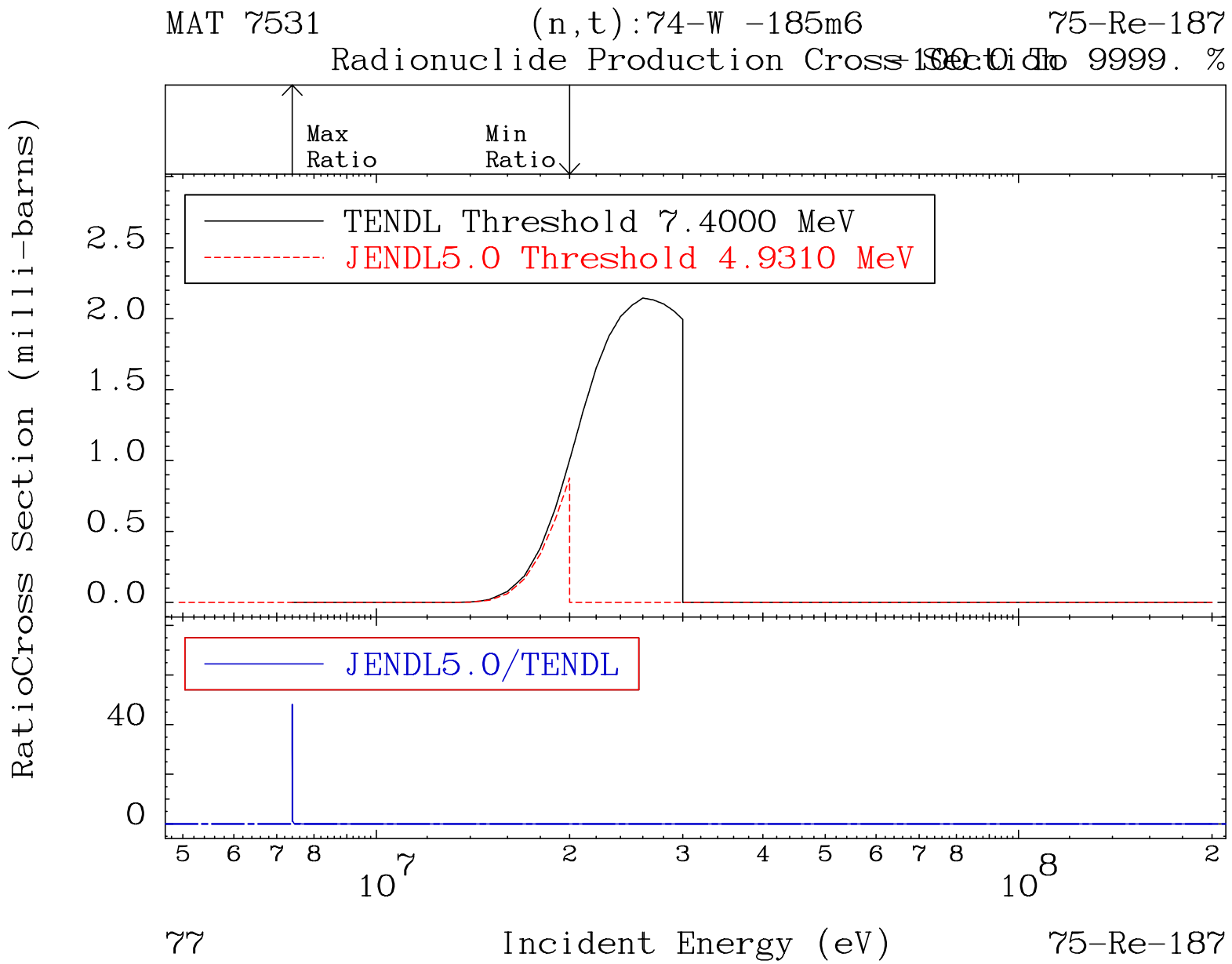

MAT 7531
(n,n') d:74-W -185g
75-Re-187
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 11.024 MeV
JENDL5.0 Threshold 11.024 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
4
3
2
1
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
72
Incident Energy (eV)
75-Re-187


MAT 7531
(n,n') d:74-W -185m6
75-Re-187
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 11.222 MeV
JENDL5.0 Threshold 11.222 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
0.0
1.0
2.0
2
3
4
5
6
7
8
9
2
10^8
73
Incident Energy (eV)
75-Re-187


MAT 7531
(n,2n) p:74-W -185g
75-Re-187
Radionuclide Production Cross Section To 185.7 %
Max
Ratio
TENDL Threshold 13.260 MeV
JENDL5.0 Threshold 13.260 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
4
2
0
2
3
4
5
6
7
8
9
2
10^8
74
Incident Energy (eV)
75-Re-187


MAT 7531
(n,2n) p:74-W -185m6
75-Re-187
Radionuclide Production Cross Section
Max Ratio
TENDL Threshold 13.459 MeV
JENDL5.0 Threshold 13.459 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
75
75-Re-187


MAT 7531
(n,t):74-W -185g
75-Re-187
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.7326 MeV
JENDL5.0 Threshold 4.7326 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
200
100
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
76
Incident Energy (eV)
75-Re-187


MAT 7531
(n,t):74-W -185m6
75-Re-187
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.4000 MeV
JENDL5.0 Threshold 4.9310 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
40
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
77
Incident Energy (eV)
75-Re-187