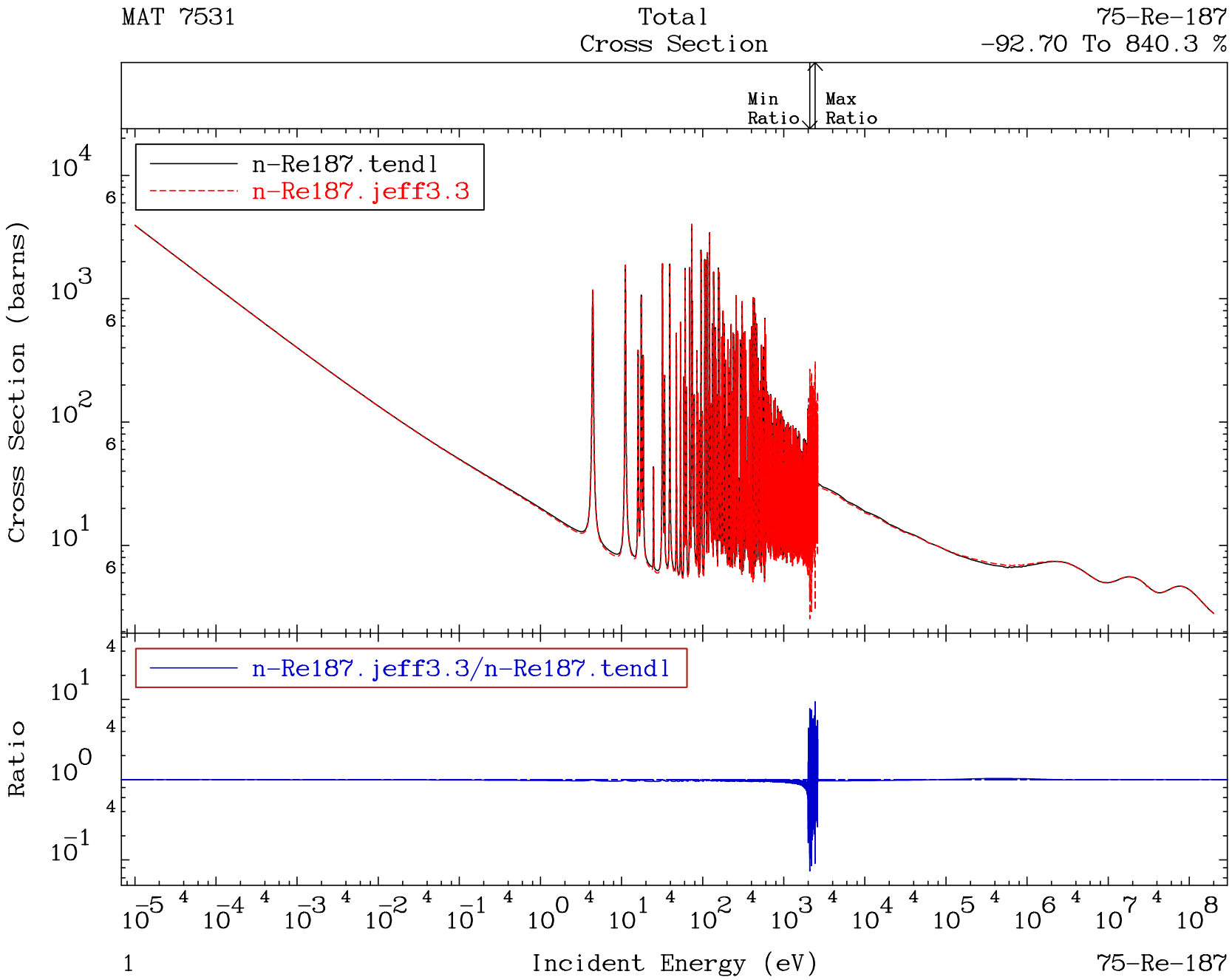
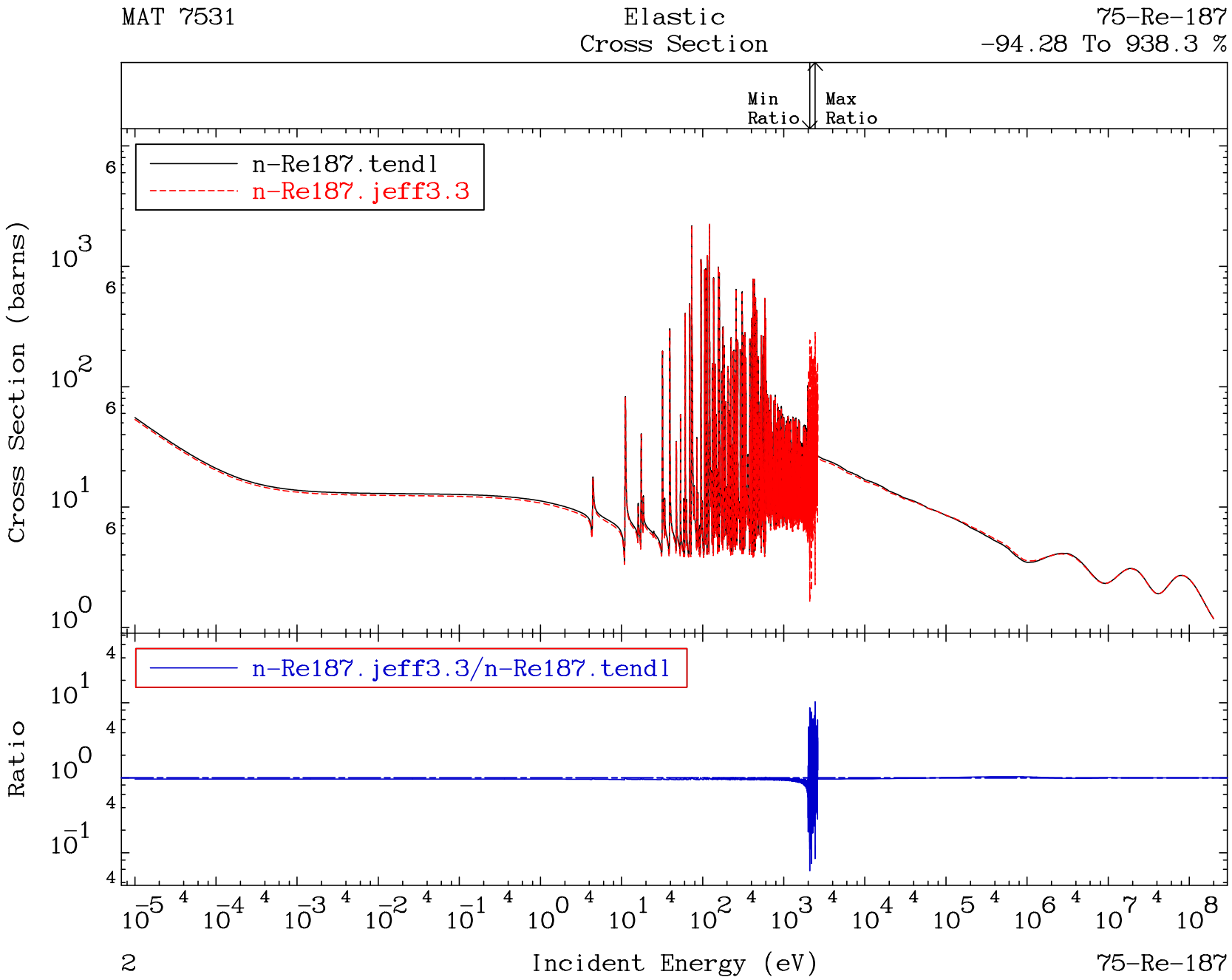
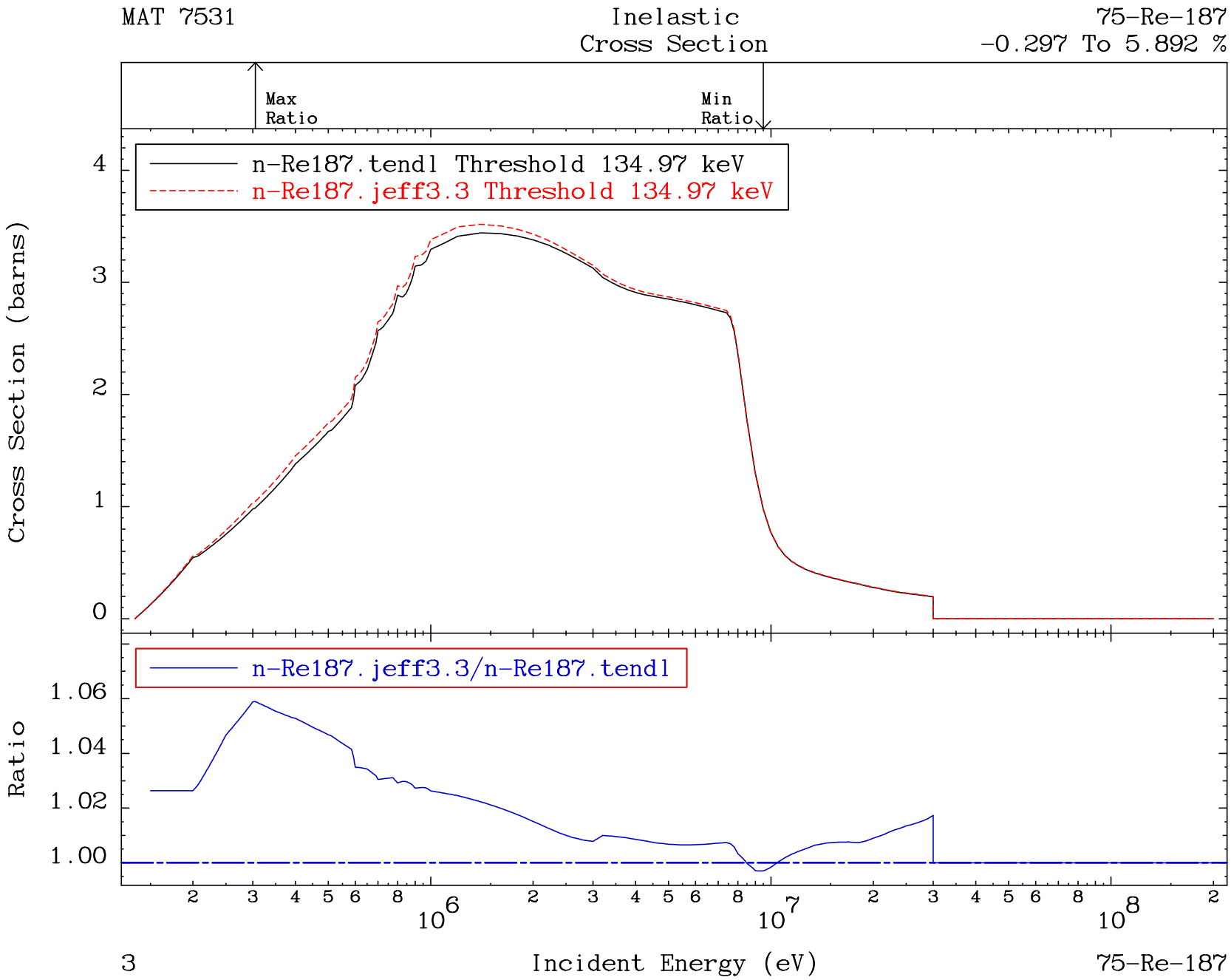
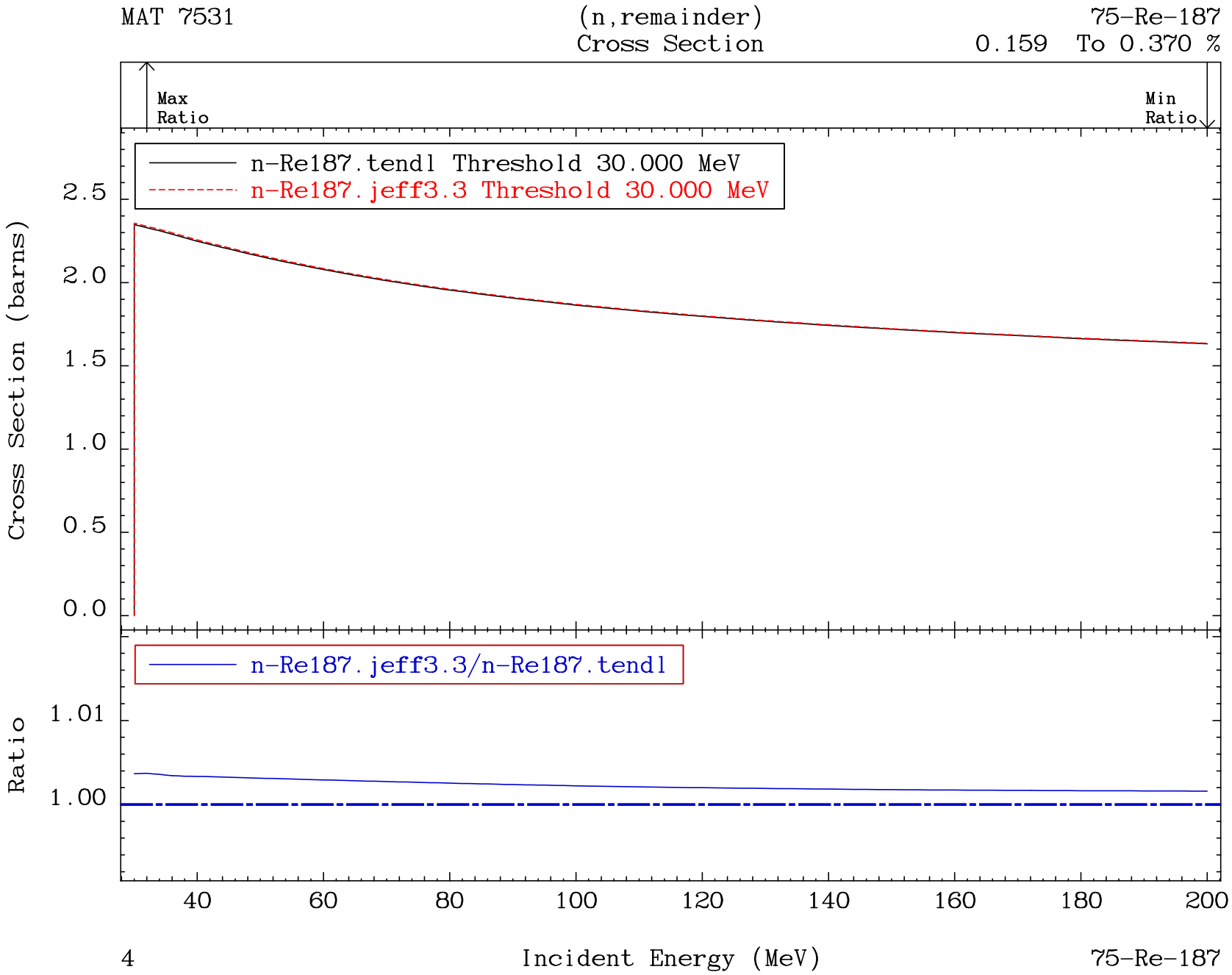
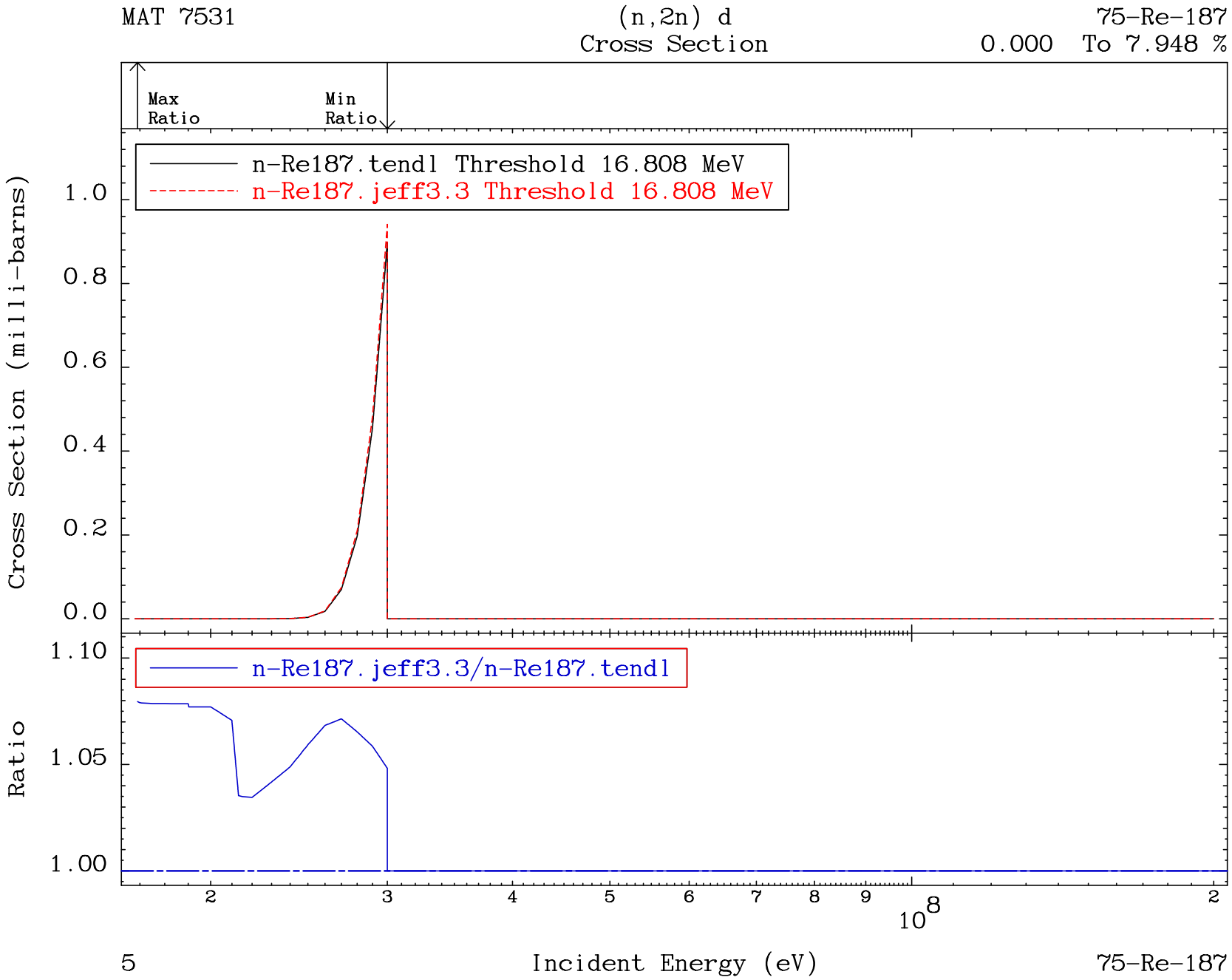
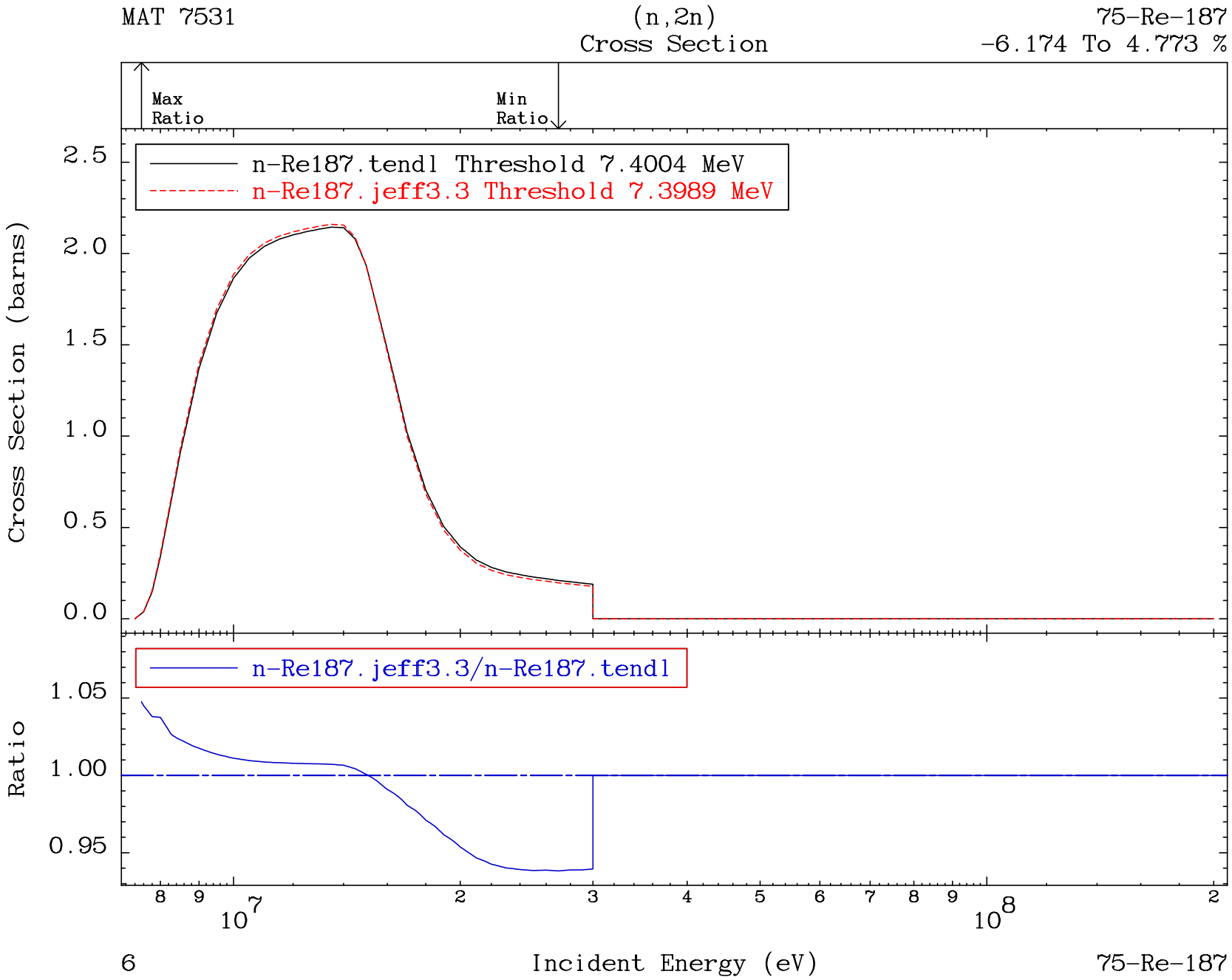

MAT 7531
Total
Cross Section
75-Re-187
-92.70 To 840.3 %
Min Ratio
Max Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
1
75-Re-187

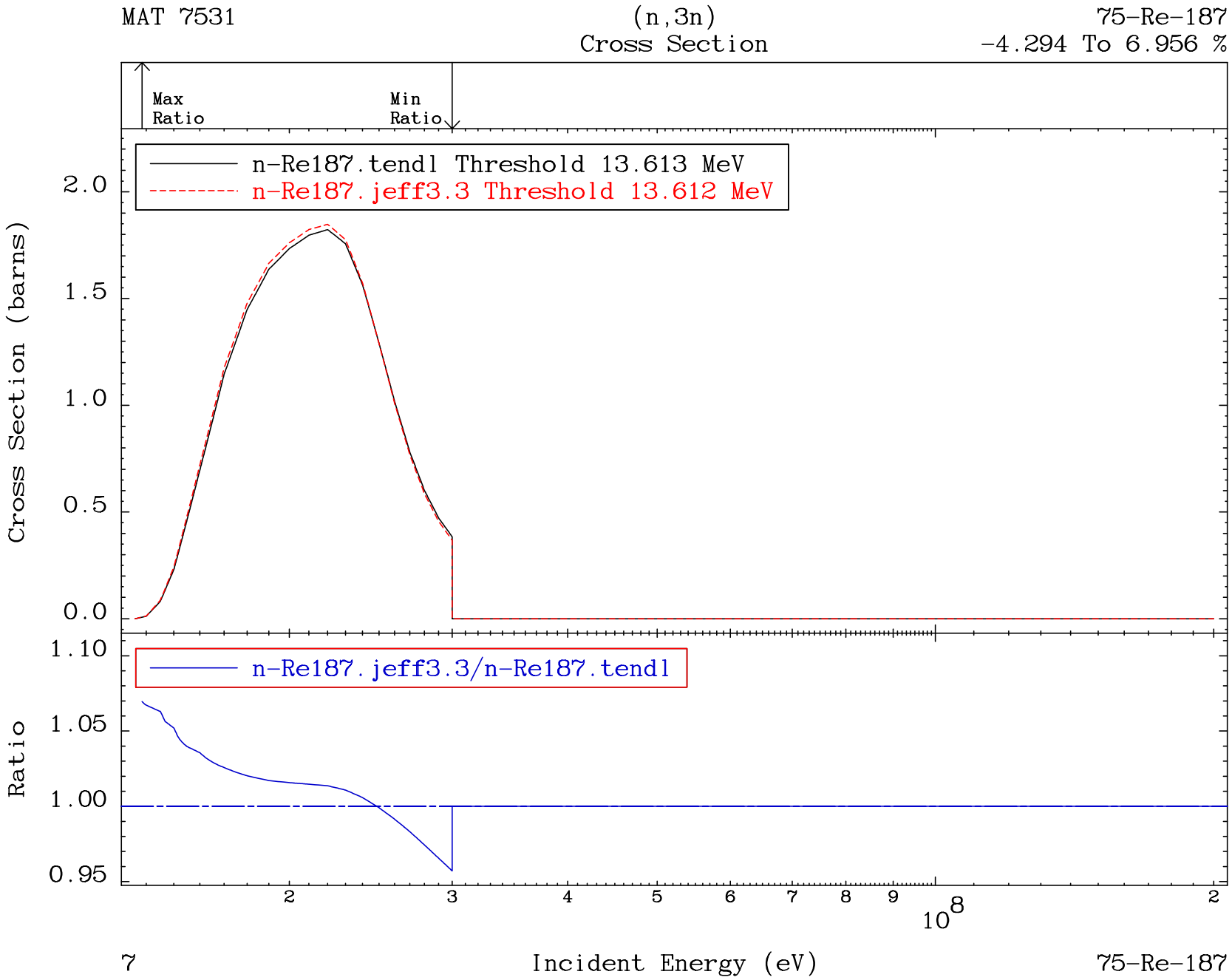

MAT 7531
Elastic
Cross Section
75-Re-187
-94.28 To 938.3 %
Min Ratio
Max Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
2
75-Re-187

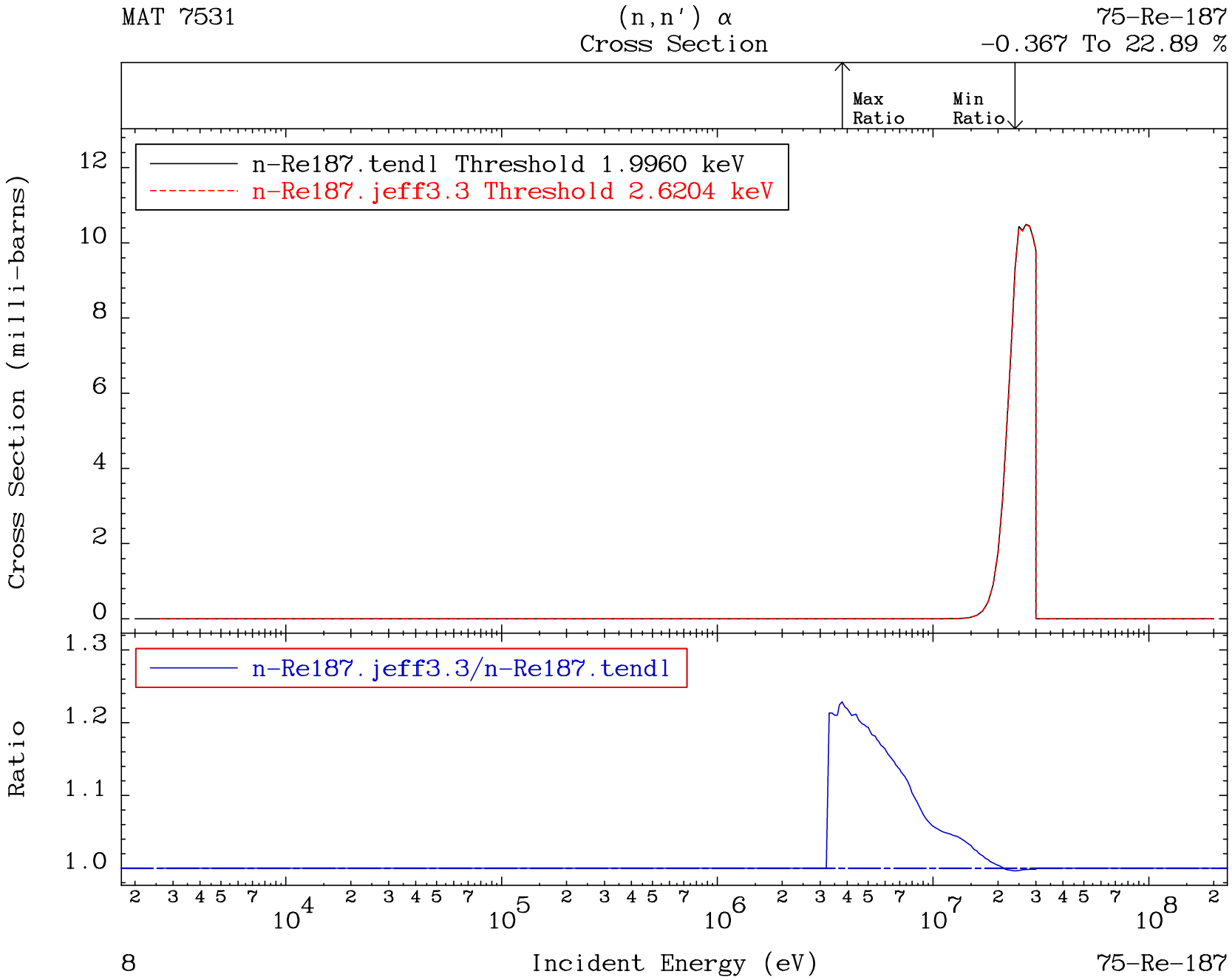

MAT 7531
Inelastic
Cross Section
75-Re-187
-0.297 To 5.892 %
Max
Ratio
Min
Ratio
n-Re187.tendl Threshold 134.97 keV
n-Re187.jeff3.3 Threshold 134.97 keV
Cross Section (barns)
0
1
2
3
4
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.00
1.02
1.04
1.06
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
75-Re-187

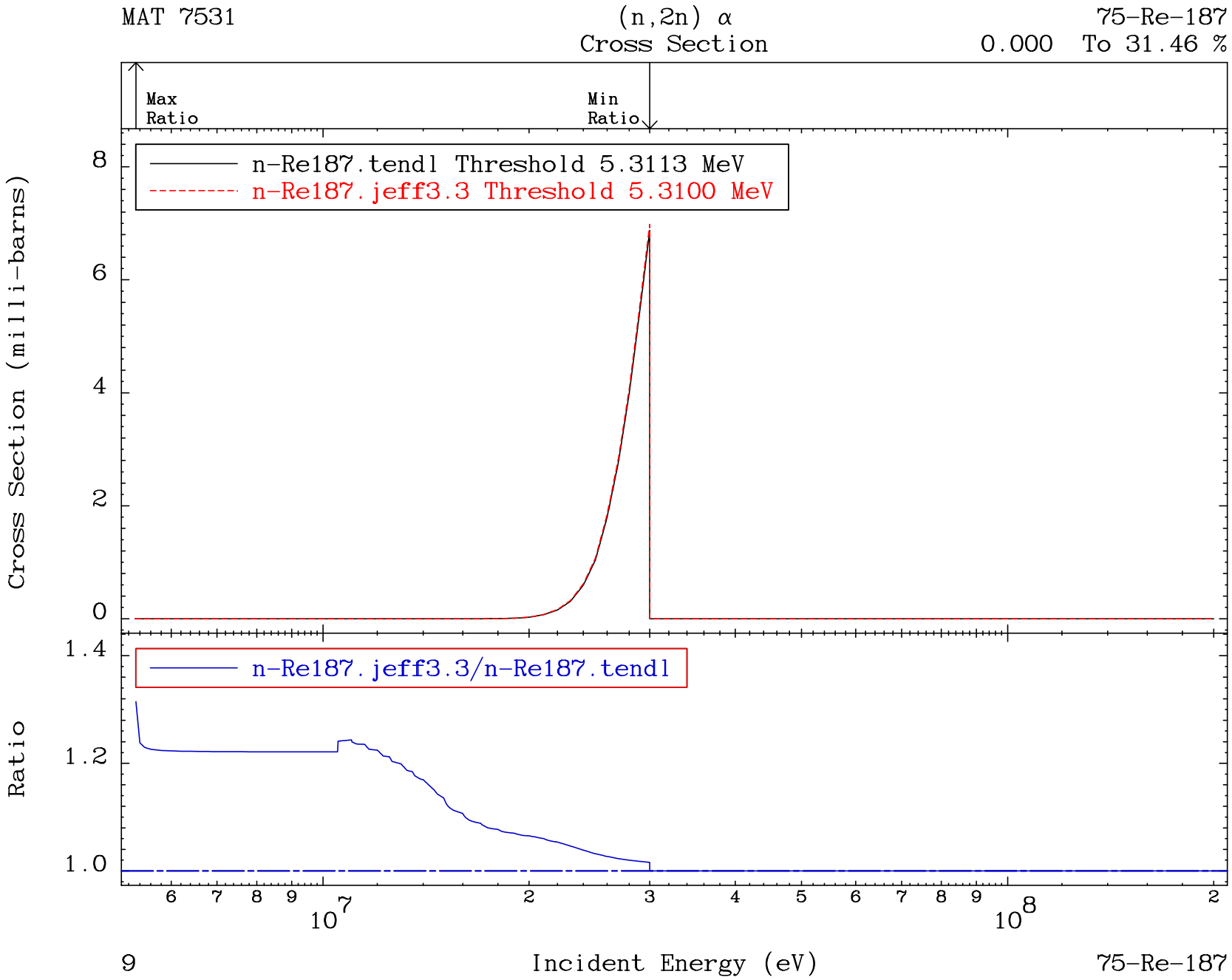

MAT 7531
(n,remainder)
Cross Section
75-Re-187
0.159 To 0.370 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 30.000 MeV
n-Re187.jeff3.3 Threshold 30.000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.01
1.00
40
60
80
100
120
140
160
180
200
Incident Energy (MeV)
4
75-Re-187

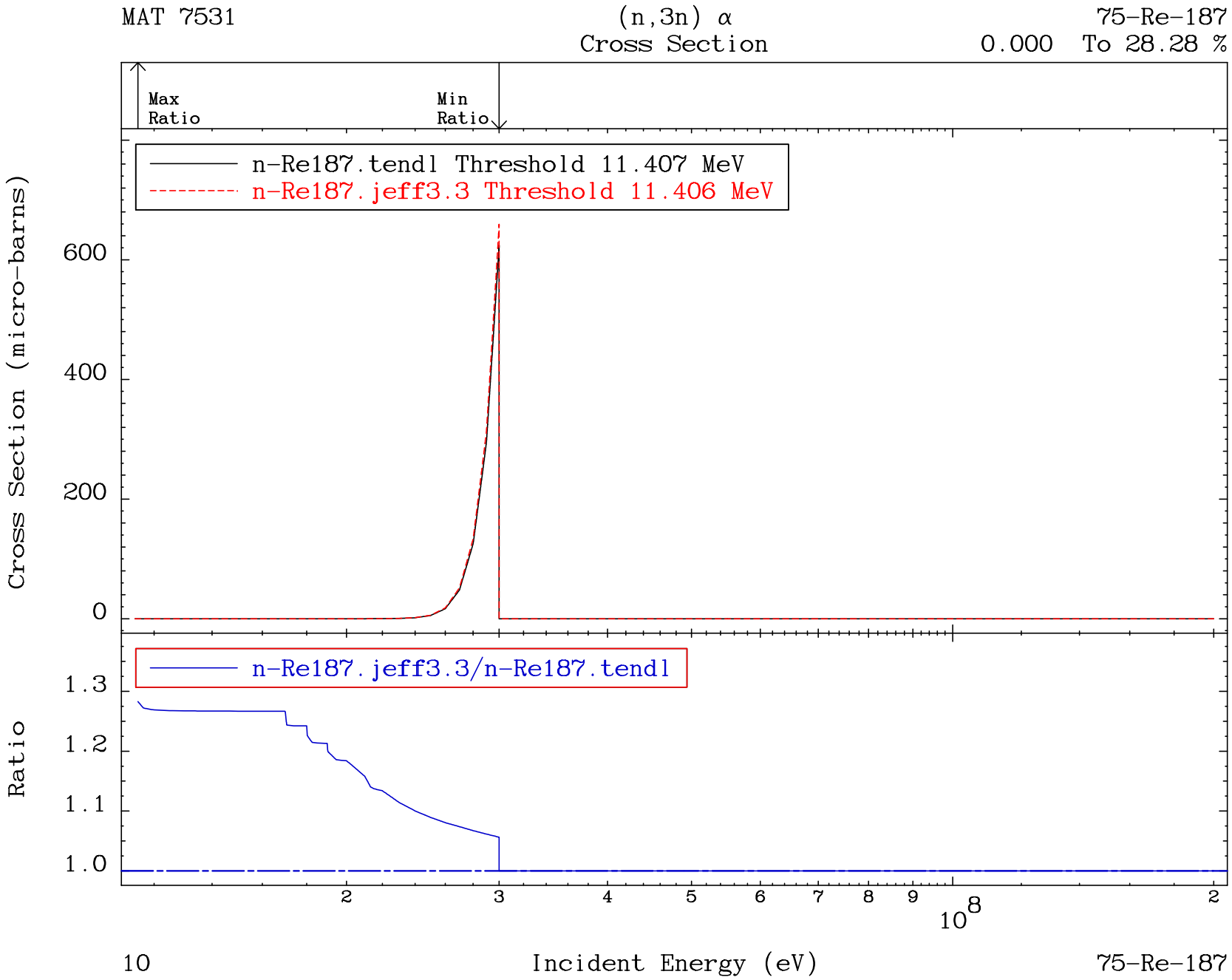

MAT 7531
(n,2n) d
Cross Section
75-Re-187
0.000 To 7.948 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 16.808 MeV
n-Re187.jeff3.3 Threshold 16.808 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
75-Re-187

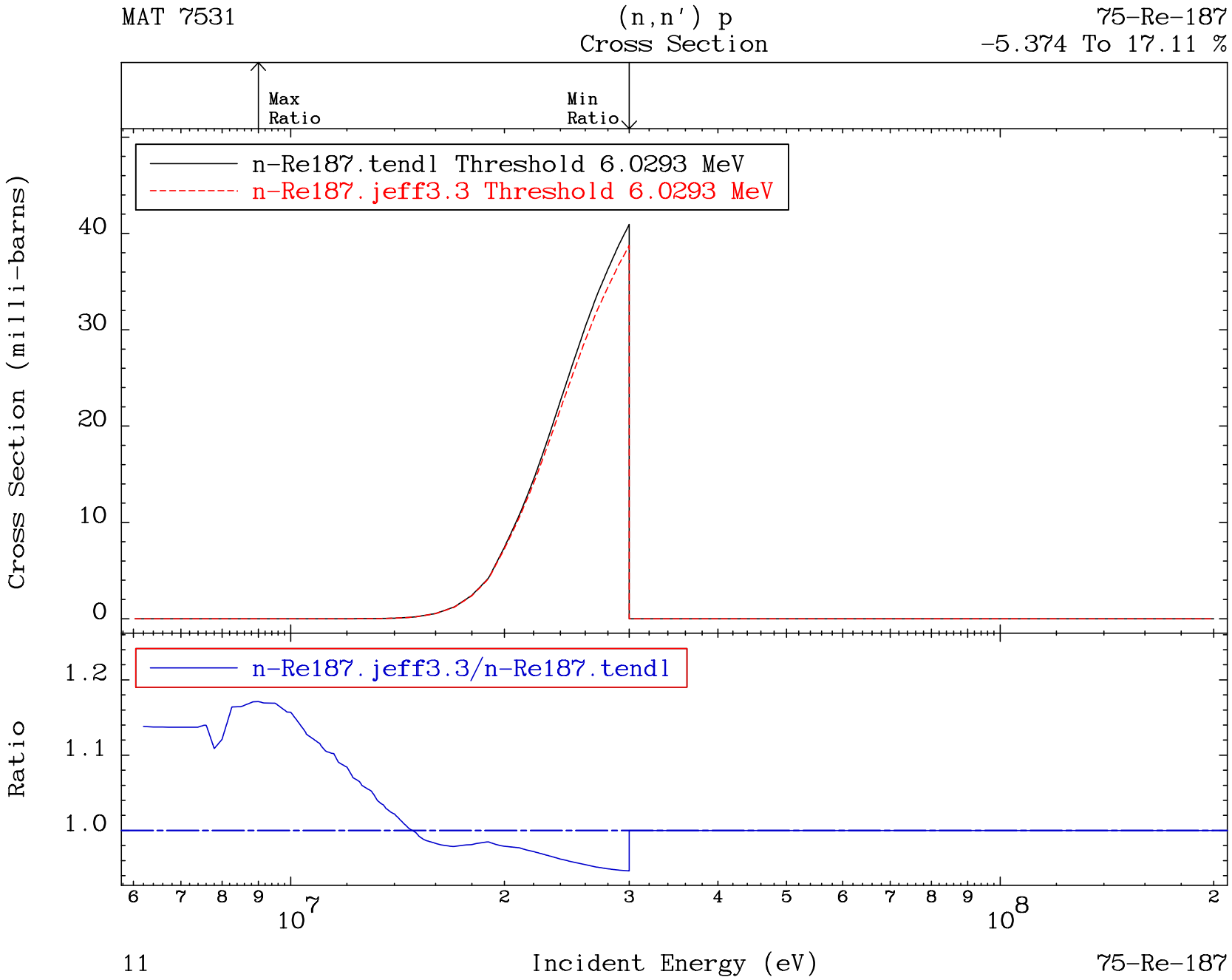

MAT 7531
(n,2n)
Cross Section
75-Re-187
-6.174 To 4.773 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 7.4004 MeV
n-Re187.jeff3.3 Threshold 7.3989 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.05
1.00
0.95
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
75-Re-187

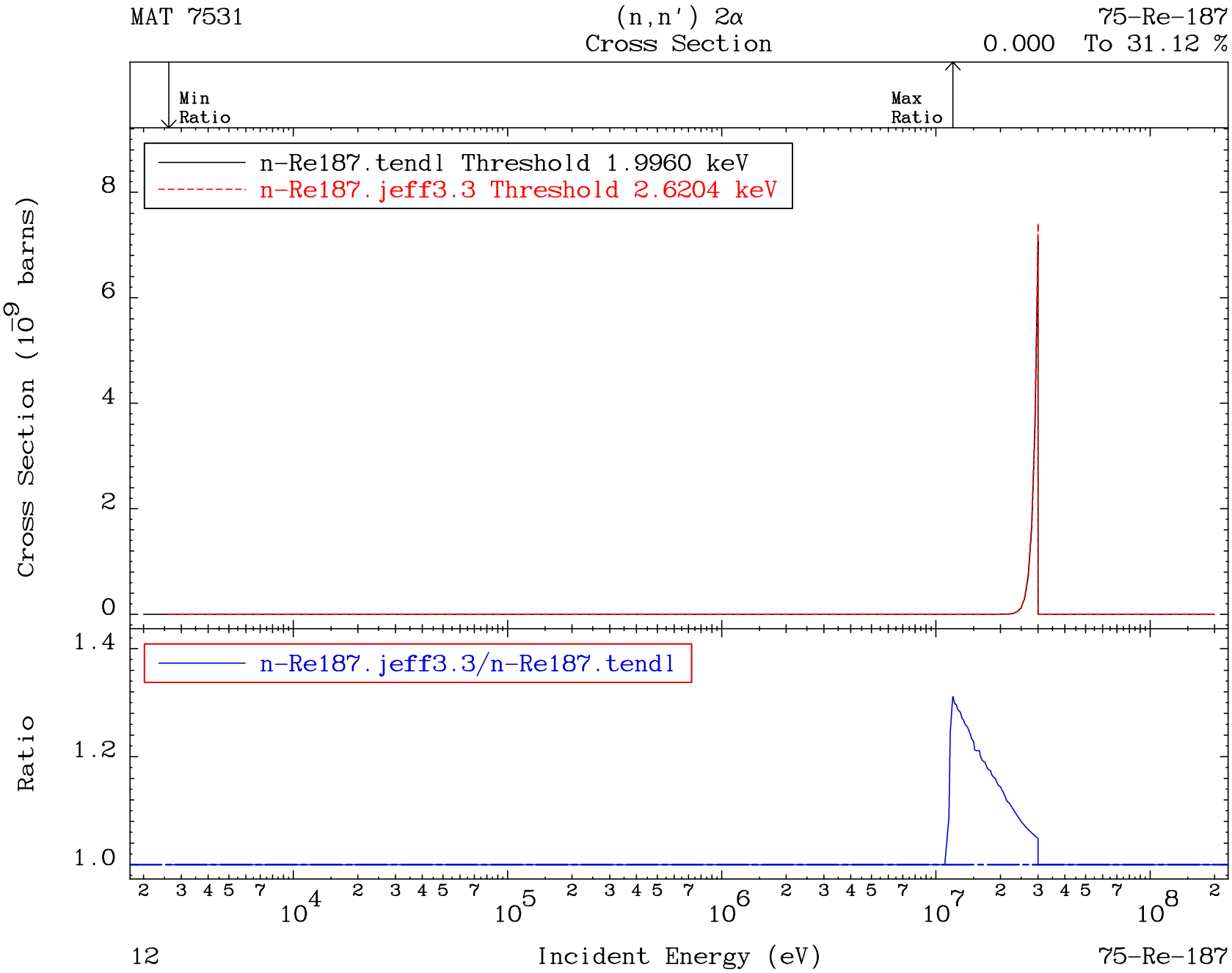

MAT 7531
(n,3n)
Cross Section
75-Re-187
-4.294 To 6.956 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 13.613 MeV
n-Re187.jeff3.3 Threshold 13.612 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
0.95
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
75-Re-187

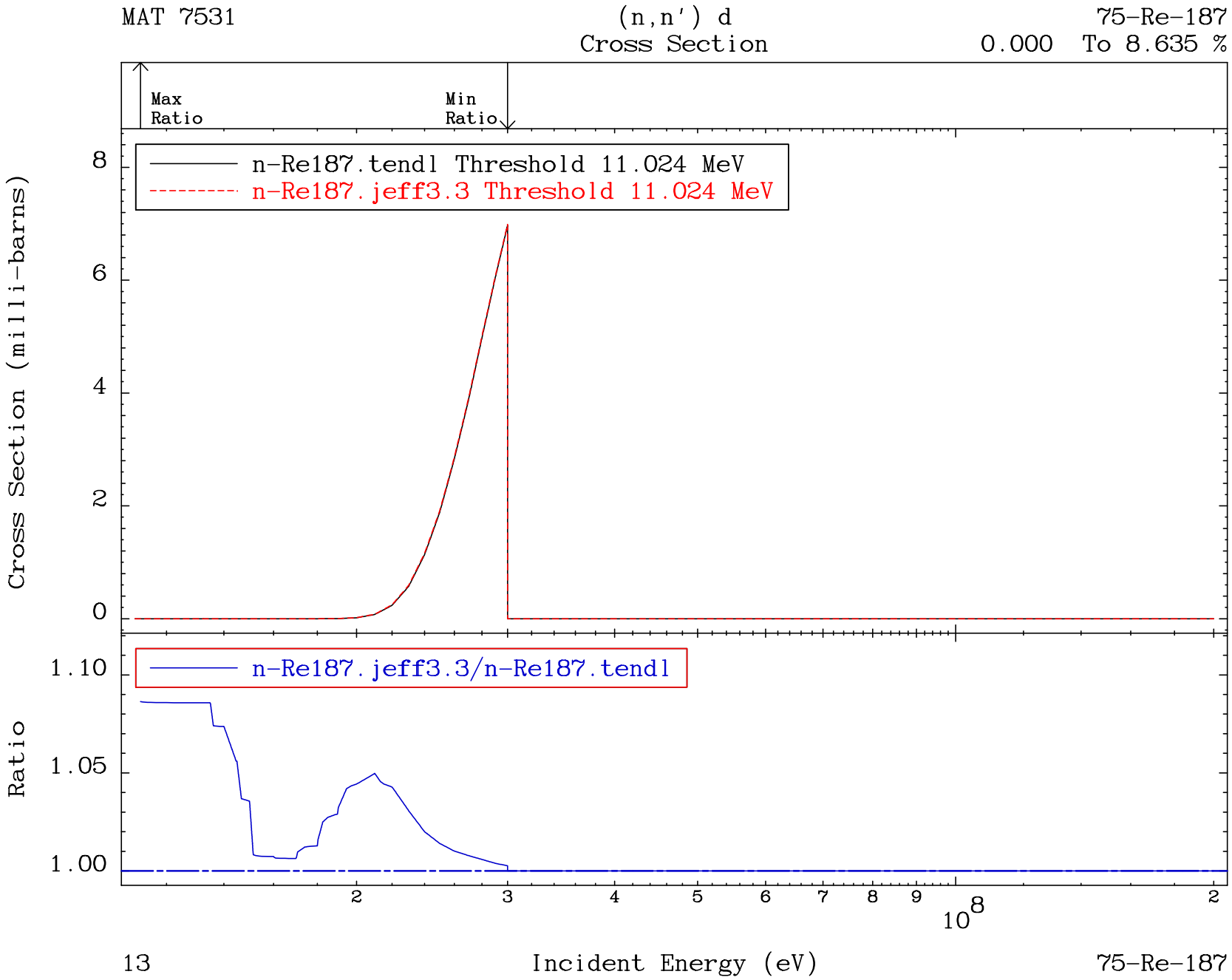

MAT 7531
(n,n') α
Cross Section
75-Re-187
-0.367 To 22.89 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 1.9960 keV
n-Re187.jeff3.3 Threshold 2.6204 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.0
1.1
1.2
1.3
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
8
Incident Energy (eV)
75-Re-187

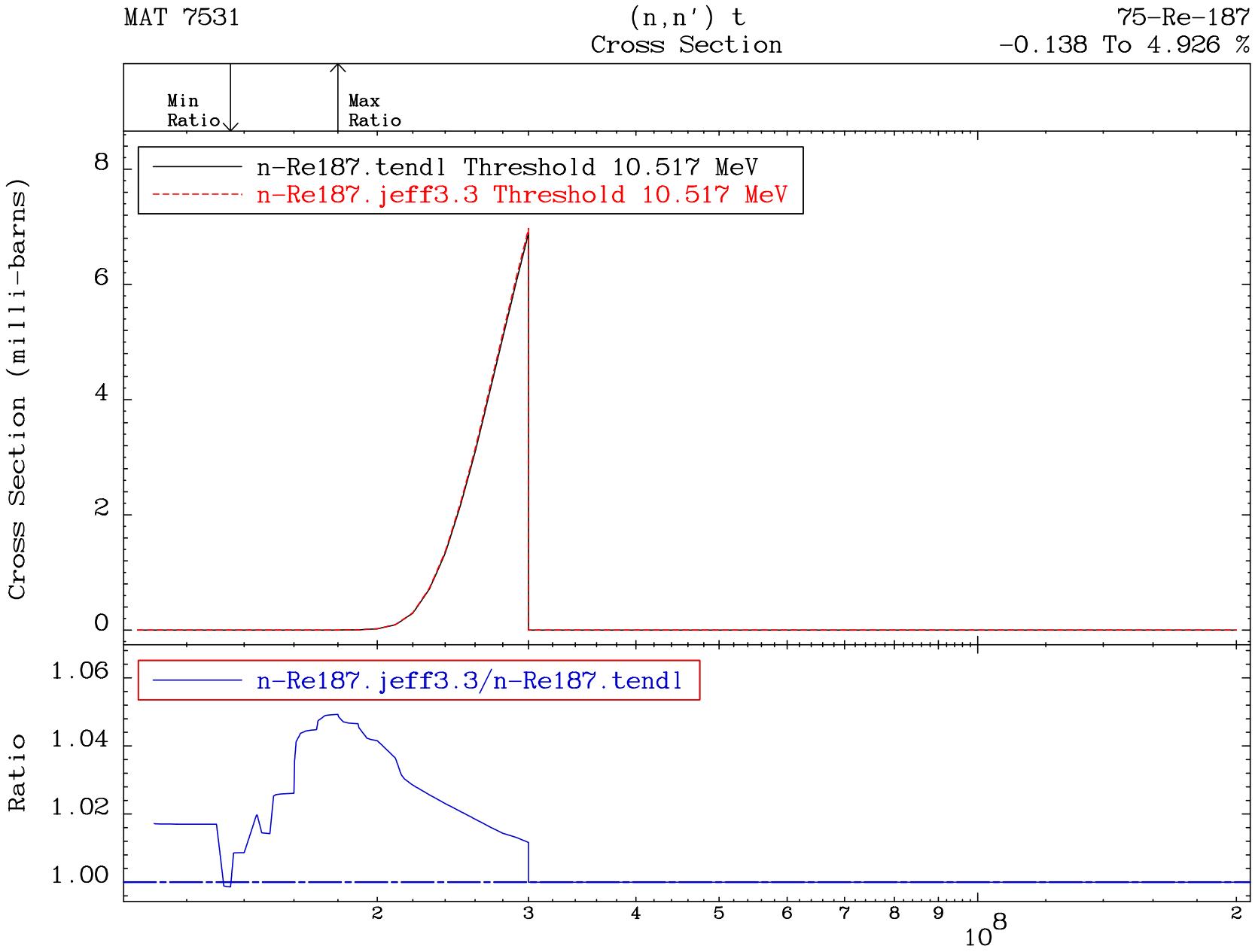

MAT 7531
(n,2n) α
Cross Section
75-Re-187
0.000 To 31.46 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 5.3113 MeV
n-Re187.jeff3.3 Threshold 5.3100 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.0
1.2
1.4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
9
75-Re-187

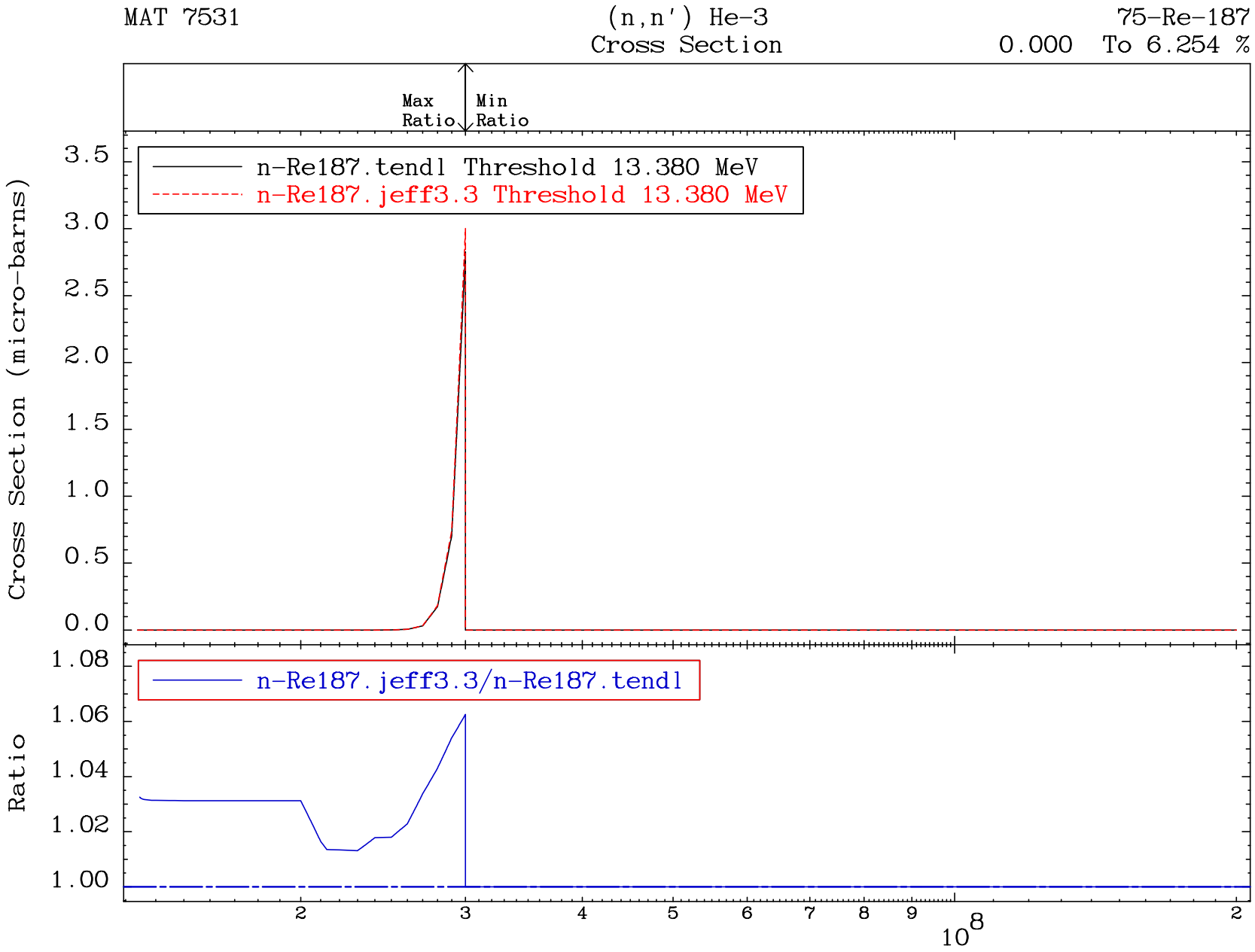

MAT 7531
(n,3n) α
Cross Section
75-Re-187
0.000 To 28.28 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 11.407 MeV
n-Re187.jeff3.3 Threshold 11.406 MeV
Cross Section (micro-barns)
600
400
200
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.3
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
75-Re-187

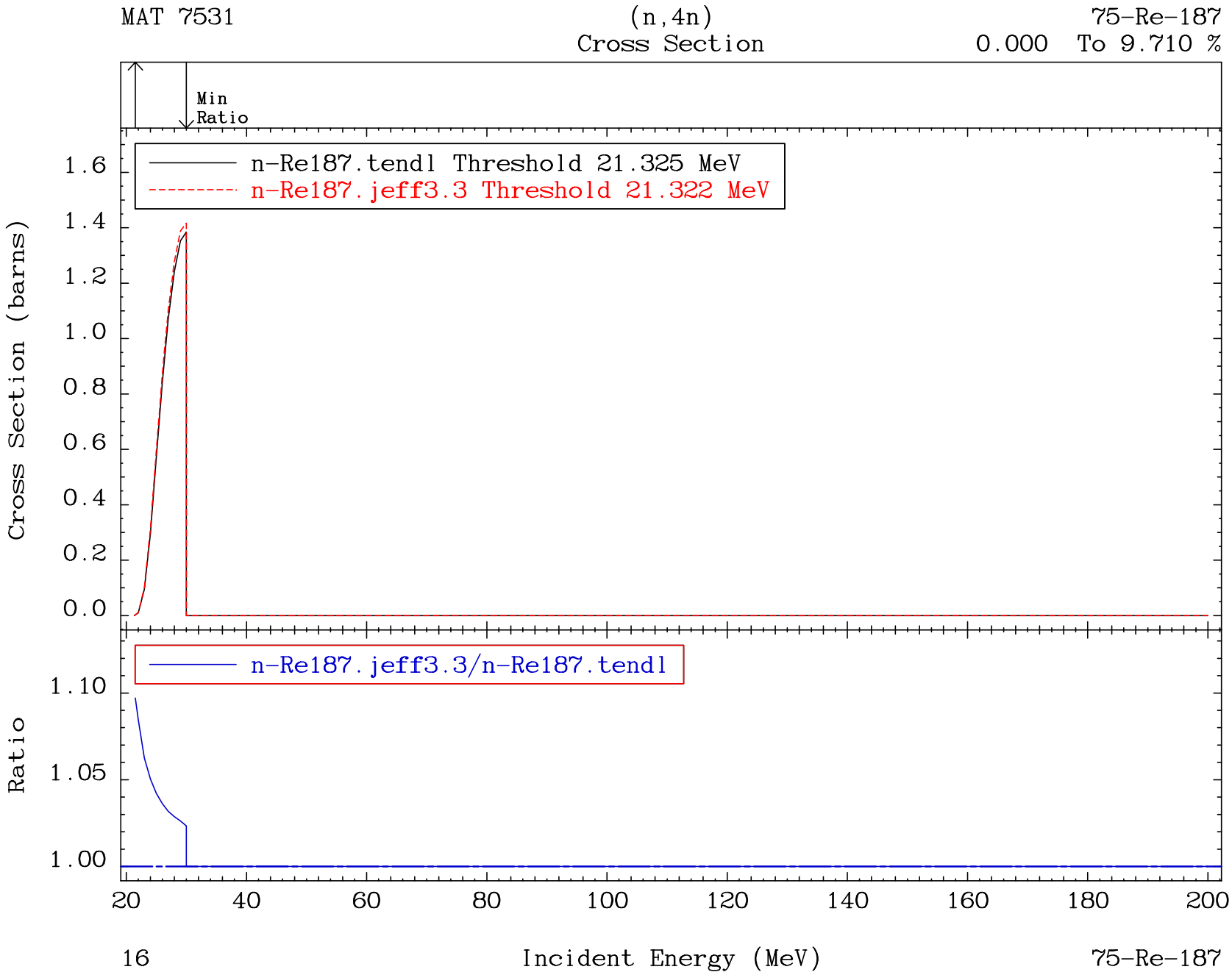

MAT 7531
(n,n') p
Cross Section
75-Re-187
-5.374 To 17.11 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 6.0293 MeV
n-Re187.jeff3.3 Threshold 6.0293 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.2
1.1
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
75-Re-187

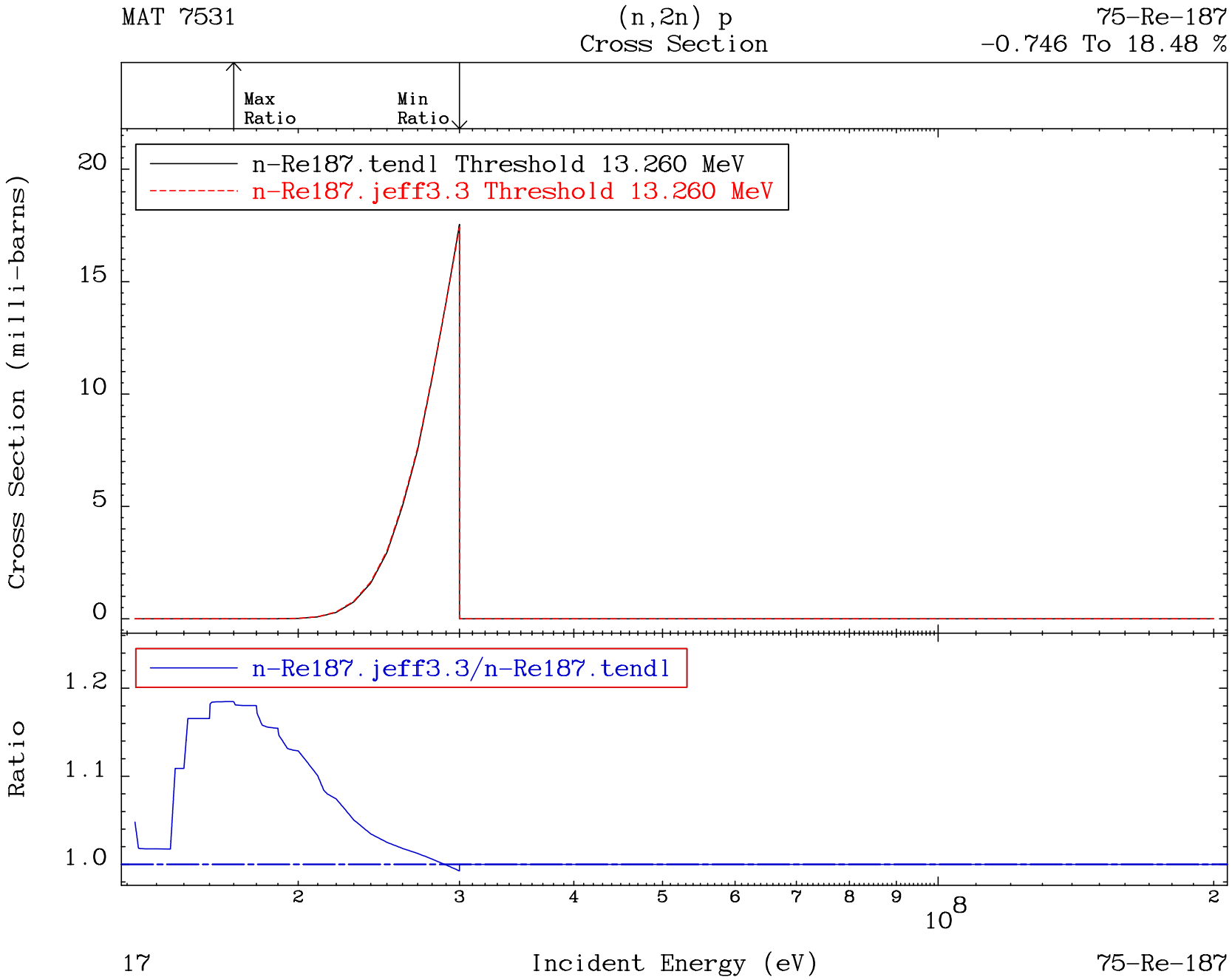

MAT 7531
(n,n') 2α
Cross Section
75-Re-187
0.000 To 31.12 %
Min Ratio
Max Ratio
n-Re187.tendl Threshold 1.9960 keV
n-Re187.jeff3.3 Threshold 2.6204 keV
Cross Section (10^-9 barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
12
75-Re-187

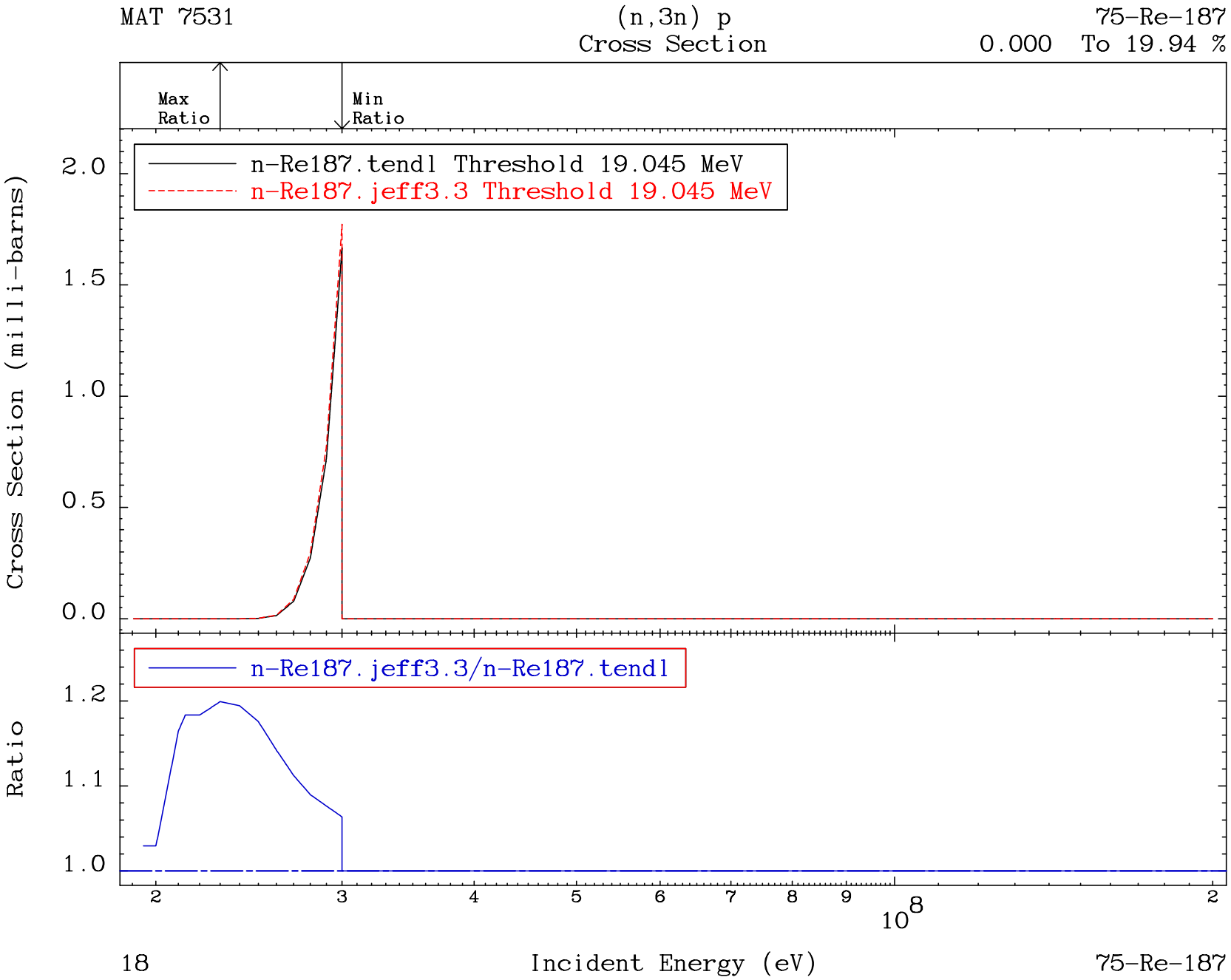

MAT 7531
(n,n') d
Cross Section
75-Re-187
0.000 To 8.635 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 11.024 MeV
n-Re187.jeff3.3 Threshold 11.024 MeV
Cross Section (milli-barns)
8
6
4
2
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
75-Re-187

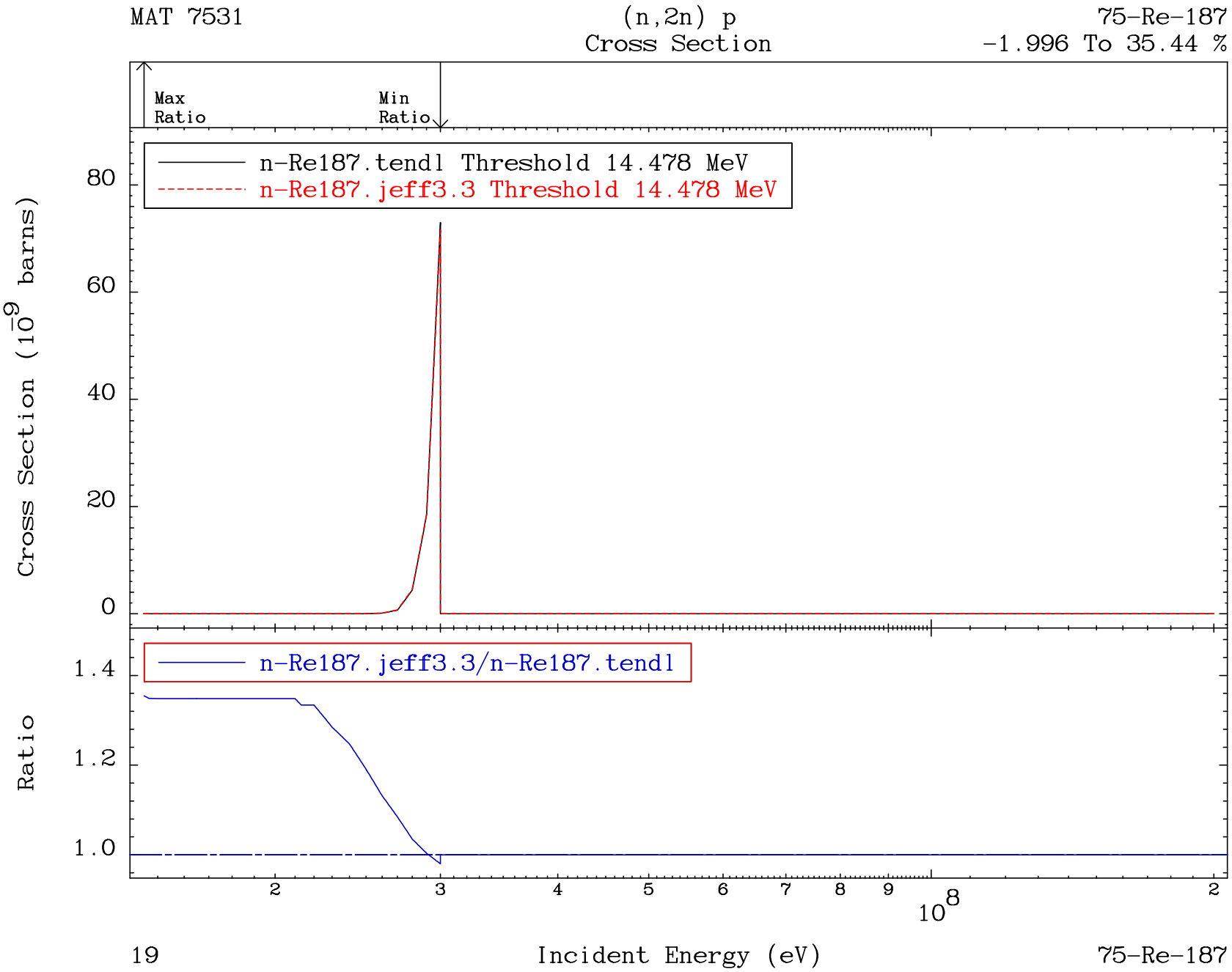

MAT 7531
(n,n') t
Cross Section
75-Re-187
-0.138 To 4.926 %
Min Ratio
Max Ratio
n-Re187.tendl Threshold 10.517 MeV
n-Re187.jeff3.3 Threshold 10.517 MeV
Cross Section (milli-barns)
8
6
4
2
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
75-Re-187

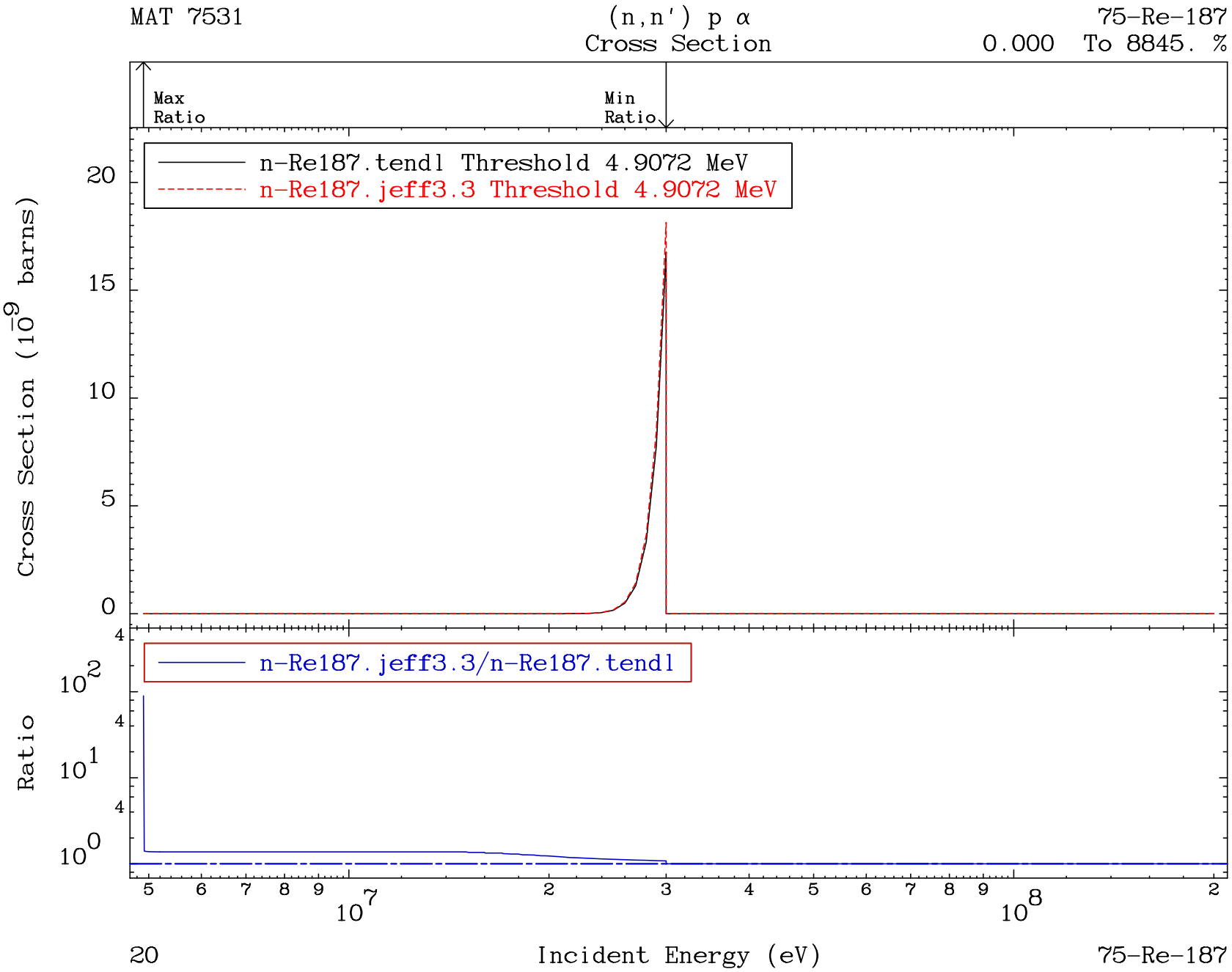

MAT 7531
(n,n') He-3
Cross Section
75-Re-187
0.000 To 6.254 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 13.380 MeV
n-Re187.jeff3.3 Threshold 13.380 MeV
Cross Section (micro-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.08
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
75-Re-187

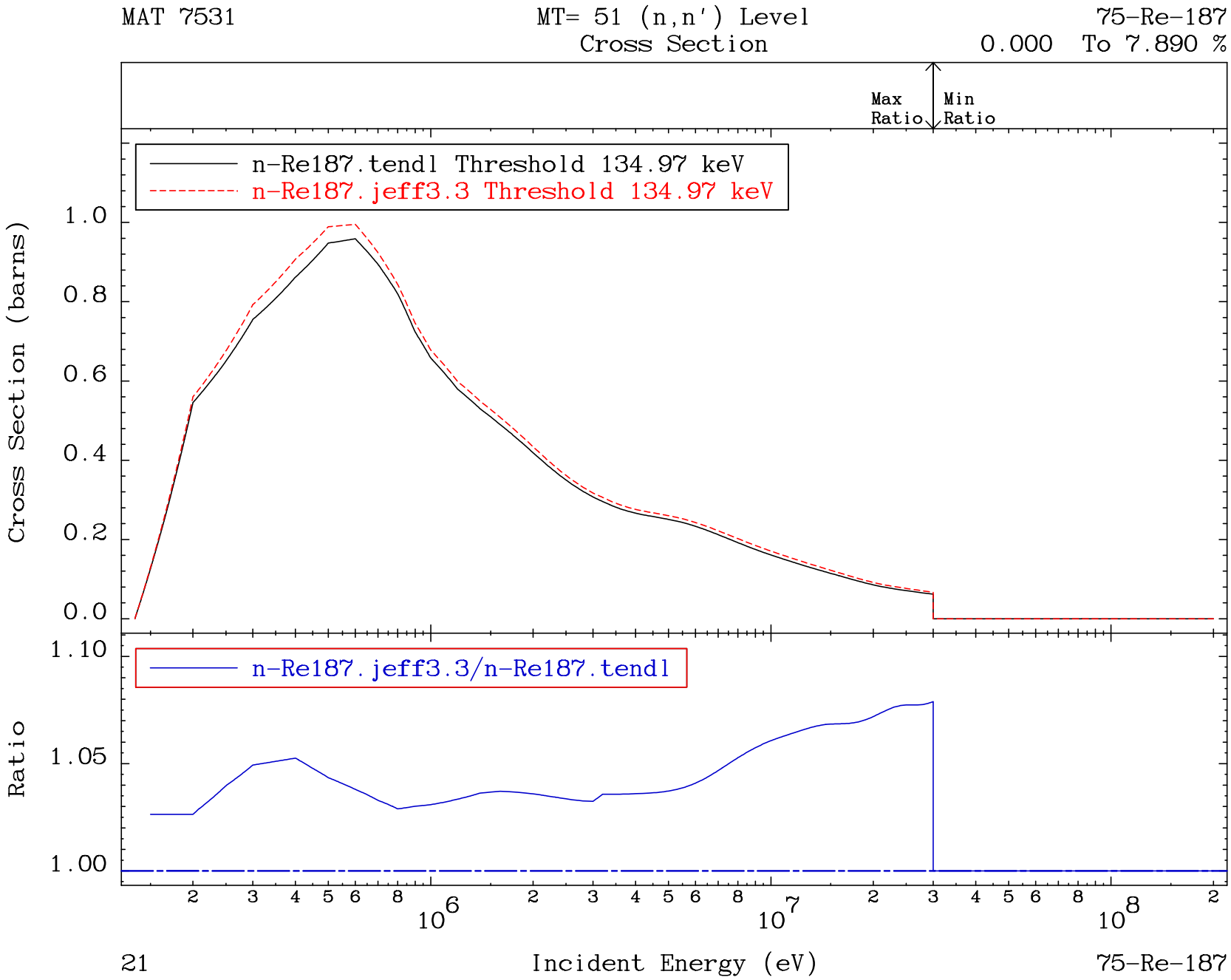

MAT 7531
(n,4n)
Cross Section
75-Re-187
0.000 To 9.710 %
Min
Ratio
n-Re187.tendl Threshold 21.325 MeV
n-Re187.jeff3.3 Threshold 21.322 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
20
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
75-Re-187

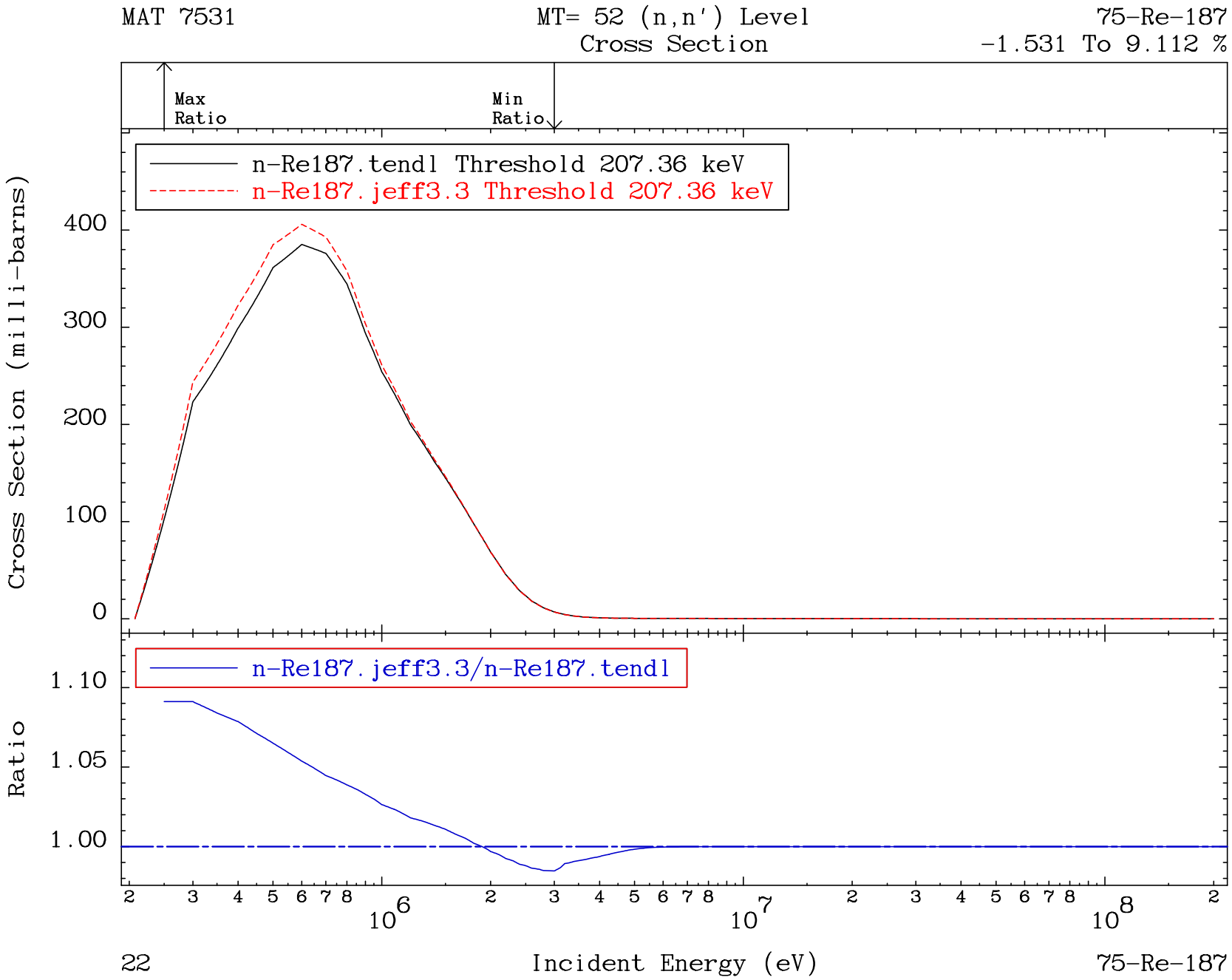

MAT 7531
(n,2n) p
Cross Section
75-Re-187
-0.746 To 18.48 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 13.260 MeV
n-Re187.jeff3.3 Threshold 13.260 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
75-Re-187

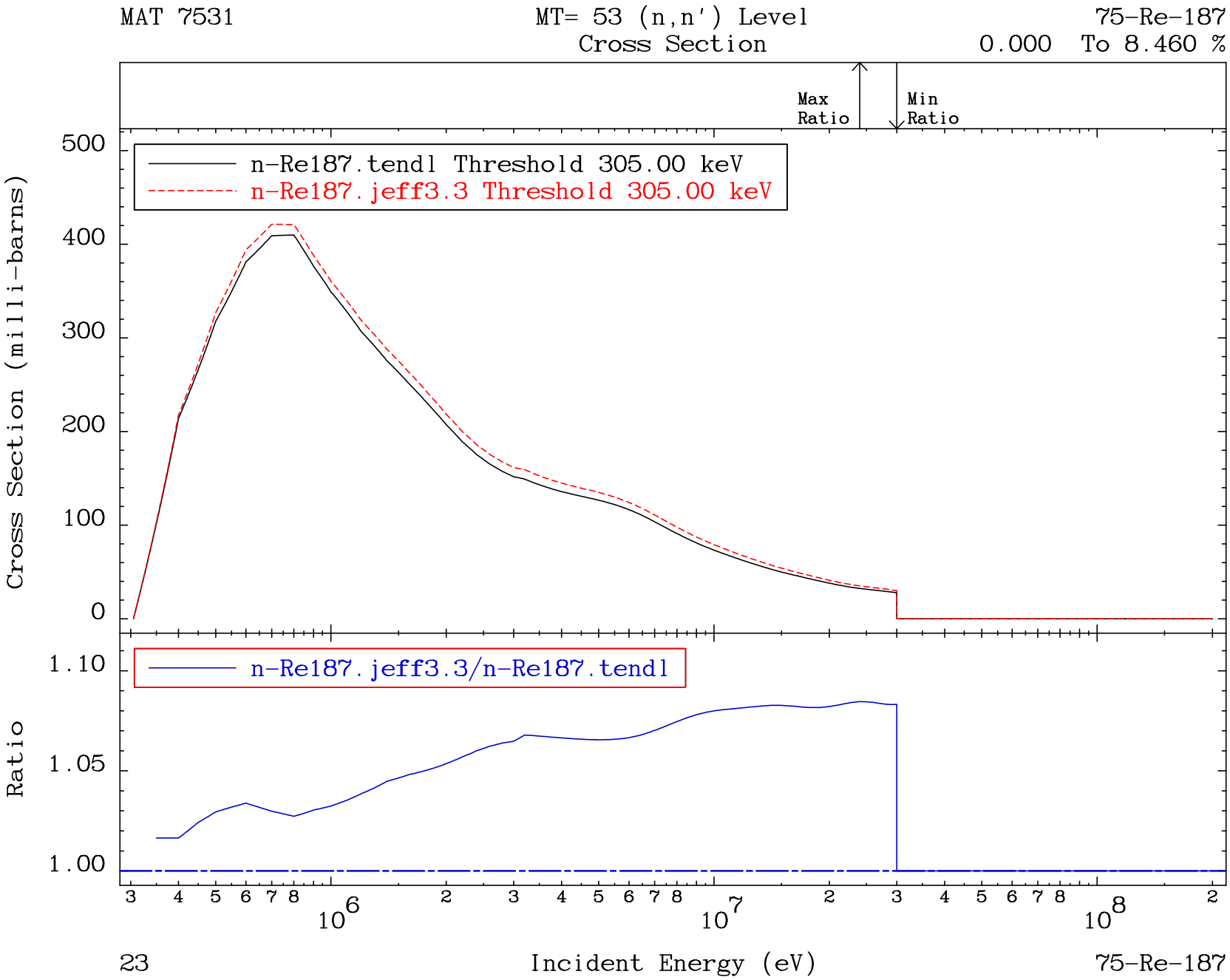

MAT 7531
(n,3n) p
Cross Section
75-Re-187
0.000 To 19.94 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 19.045 MeV
n-Re187.jeff3.3 Threshold 19.045 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
75-Re-187

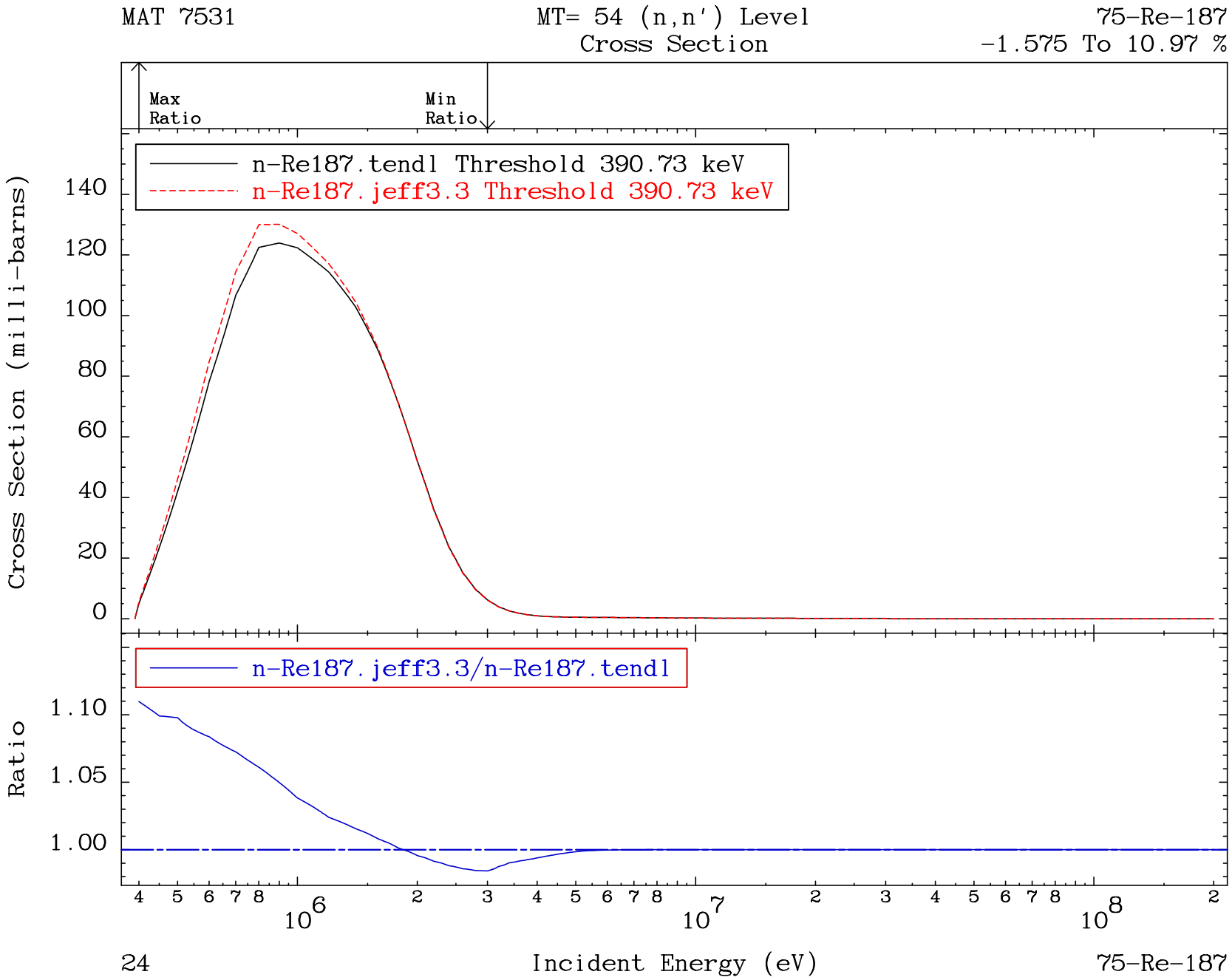

MAT 7531
(n,2n) p
Cross Section
75-Re-187
-1.996 To 35.44 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 14.478 MeV
n-Re187.jeff3.3 Threshold 14.478 MeV
Cross Section (10^{-9} barns)
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^{8}
2
19
Incident Energy (eV)
75-Re-187

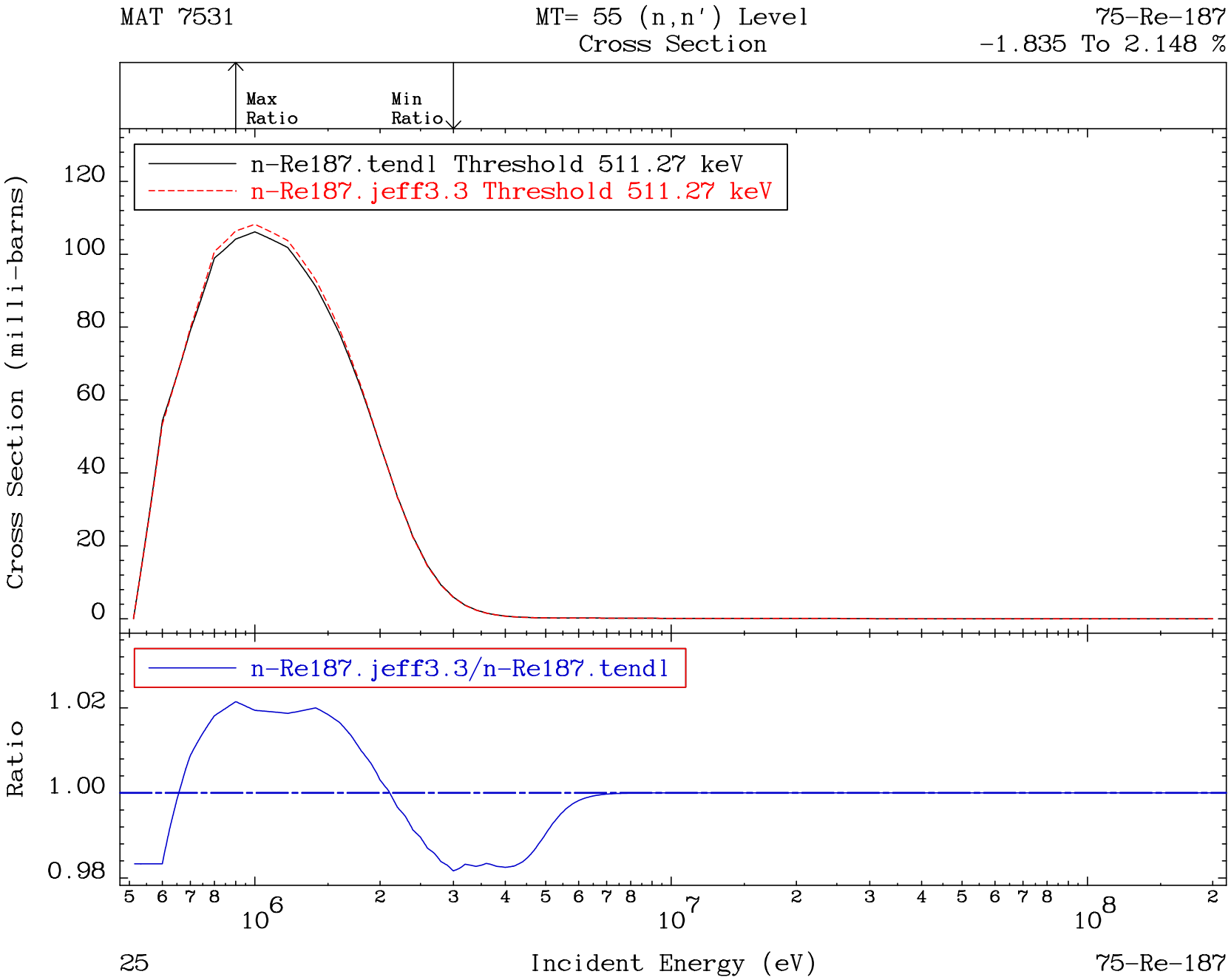

MAT 7531
(n,n') p α
Cross Section
75-Re-187
0.000 To 8845. %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 4.9072 MeV
n-Re187.jeff3.3 Threshold 4.9072 MeV
Cross Section (10^{-9} barns)
20
15
10
5
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
10^{2}
10^{1}
10^{0}
4
5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
20
Incident Energy (eV)
75-Re-187

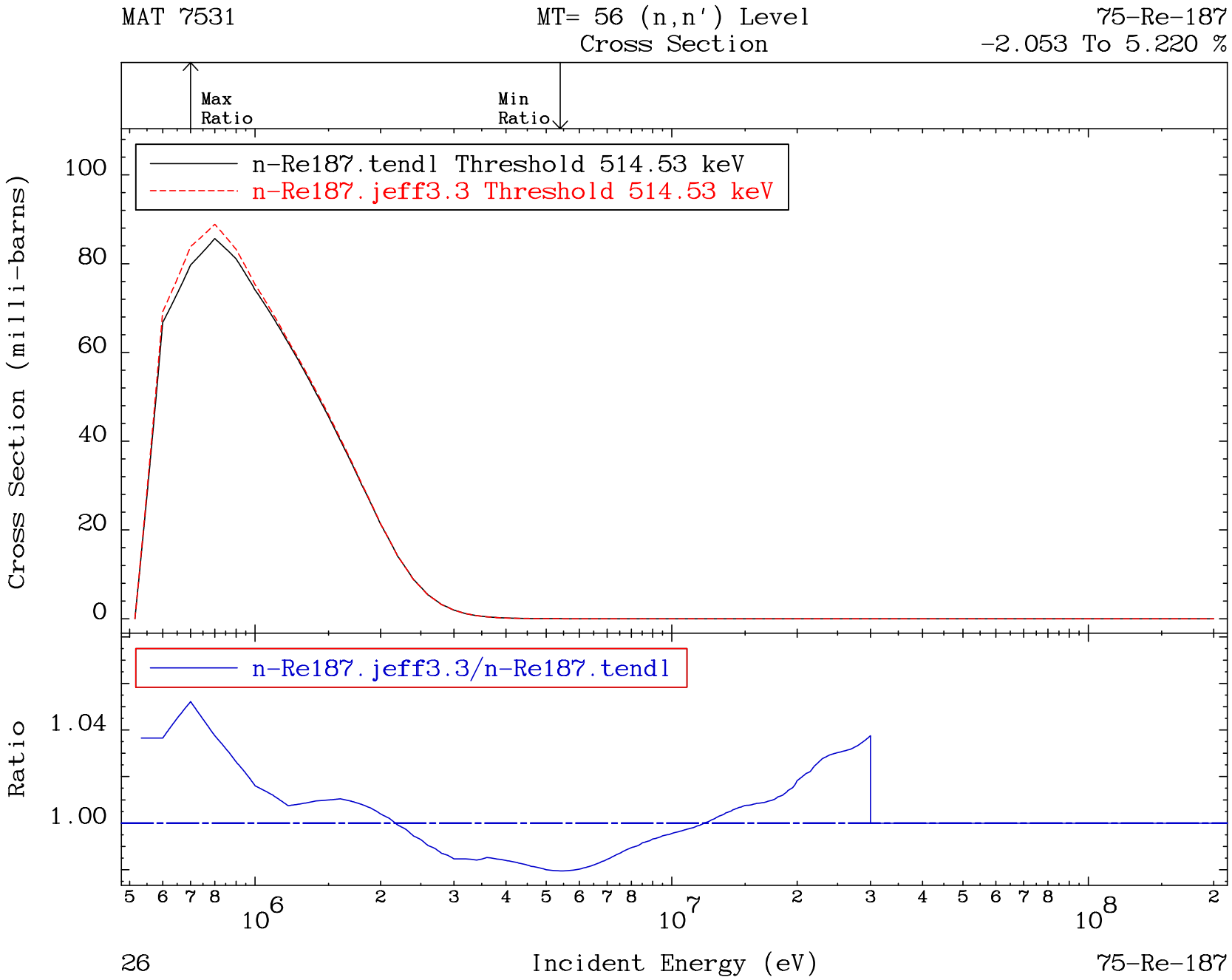

MAT 7531
MT= 51 (n,n') Level
Cross Section
75-Re-187
0.000 To 7.890 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 134.97 keV
n-Re187.jeff3.3 Threshold 134.97 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
75-Re-187

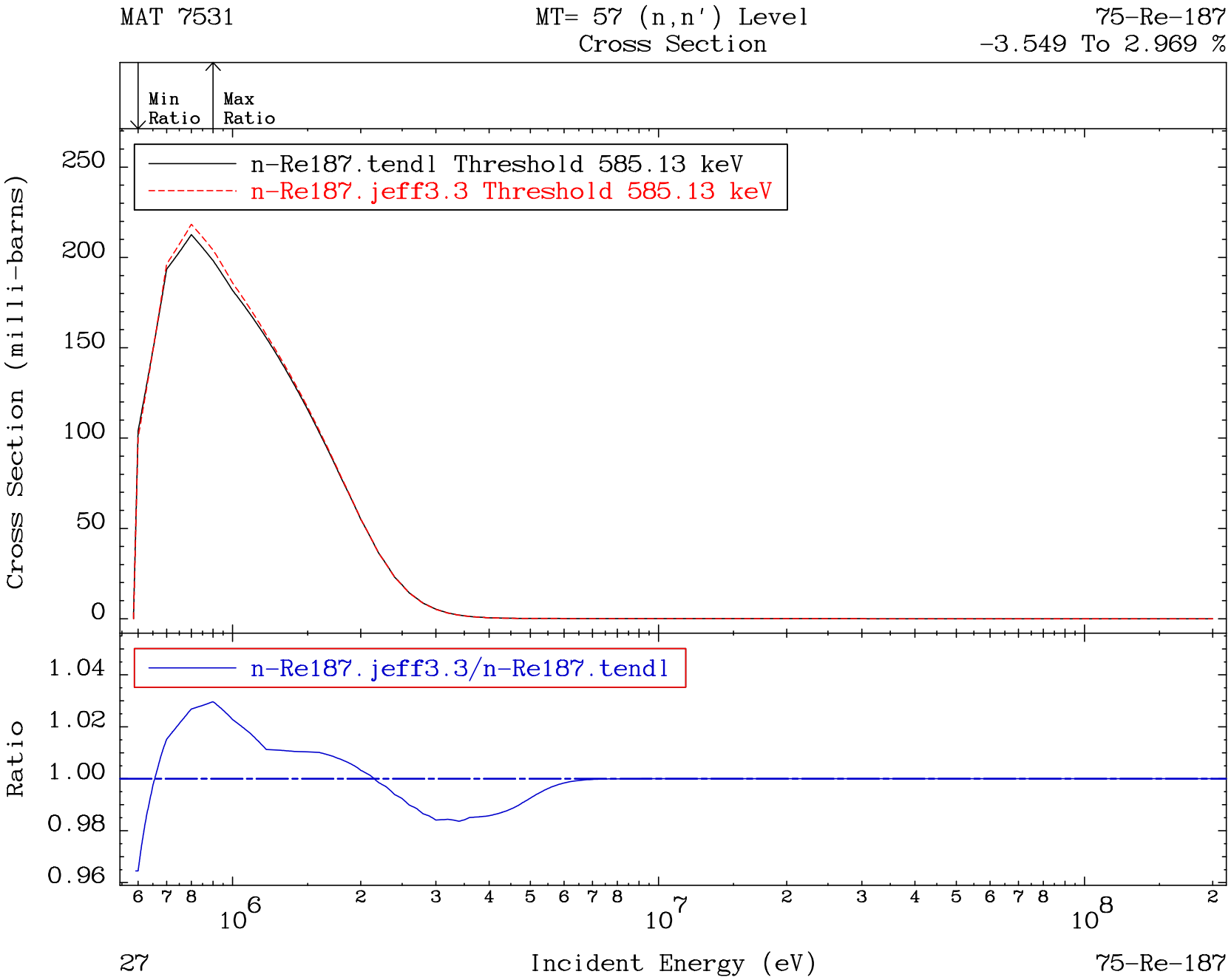

MAT 7531
MT= 52 (n,n') Level
Cross Section
75-Re-187
-1.531 To 9.112 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 207.36 keV
n-Re187.jeff3.3 Threshold 207.36 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
2 3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
75-Re-187

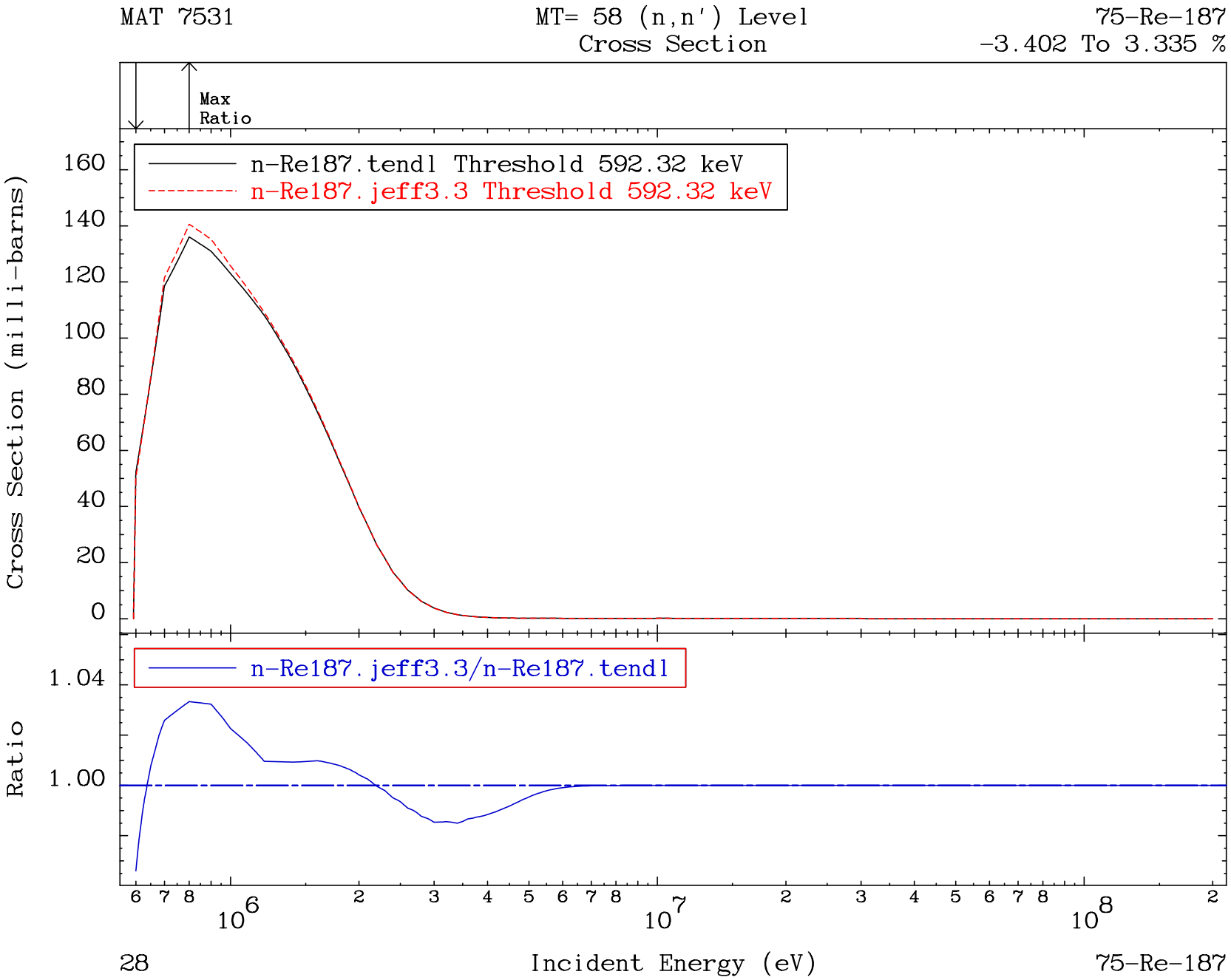

MAT 7531
MT= 53 (n,n') Level
Cross Section
75-Re-187
0.000 To 8.460 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 305.00 keV
n-Re187.jeff3.3 Threshold 305.00 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
75-Re-187

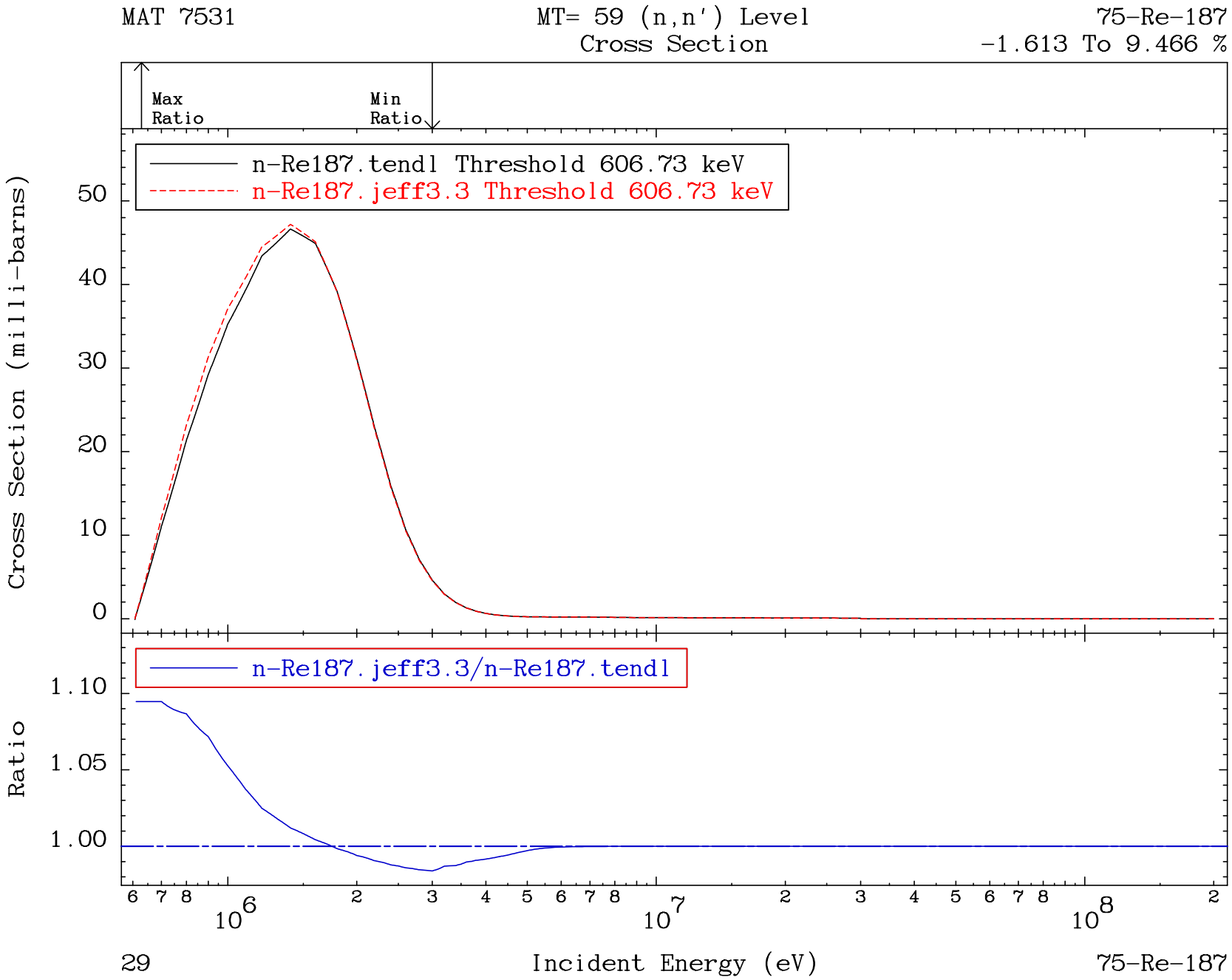

MAT 7531
MT= 54 (n,n') Level
Cross Section
75-Re-187
-1.575 To 10.97 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 390.73 keV
n-Re187.jeff3.3 Threshold 390.73 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
75-Re-187

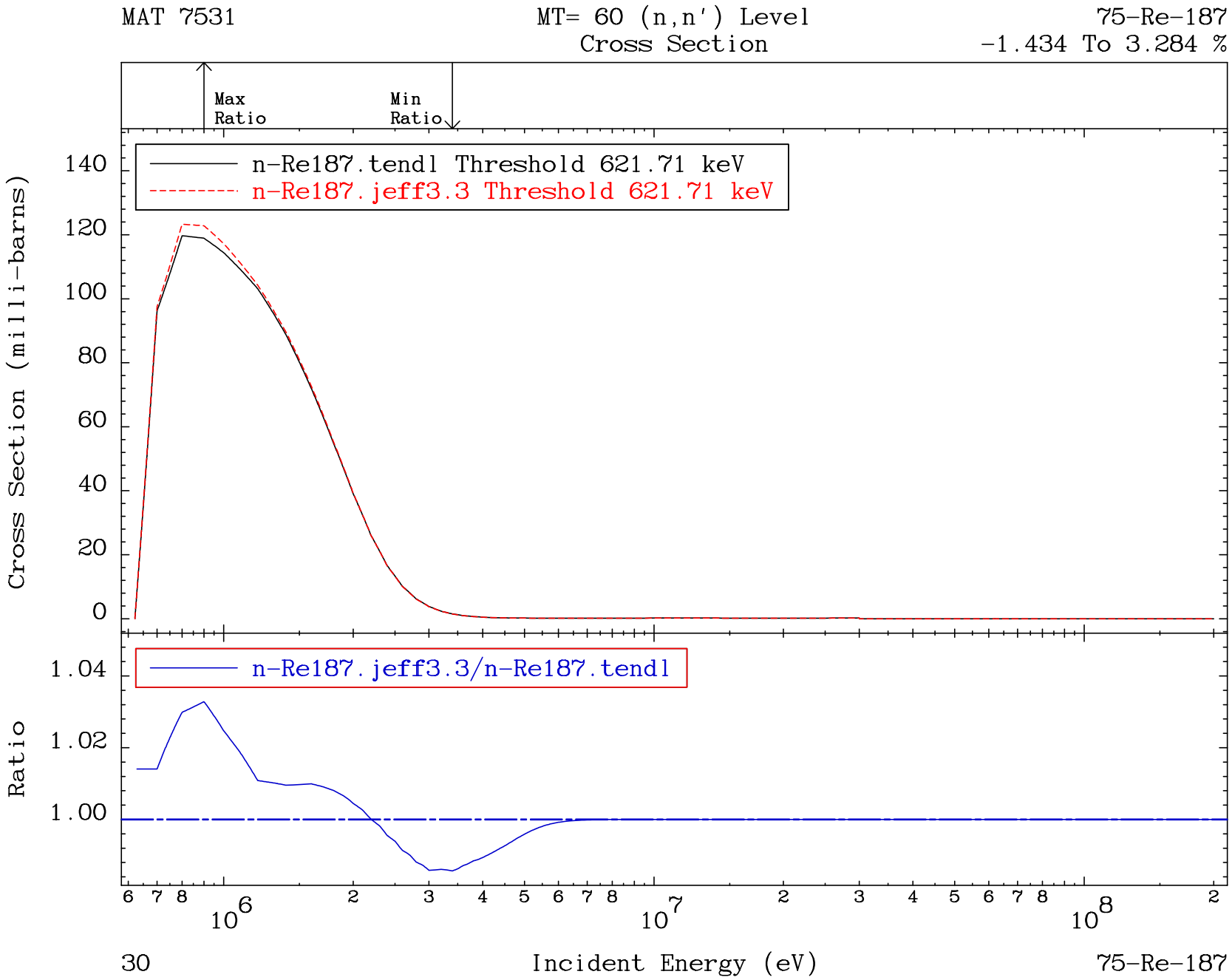

MAT 7531
MT= 55 (n,n') Level
Cross Section
75-Re-187
-1.835 To 2.148 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 511.27 keV
n-Re187.jeff3.3 Threshold 511.27 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.02
1.00
0.98
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
75-Re-187

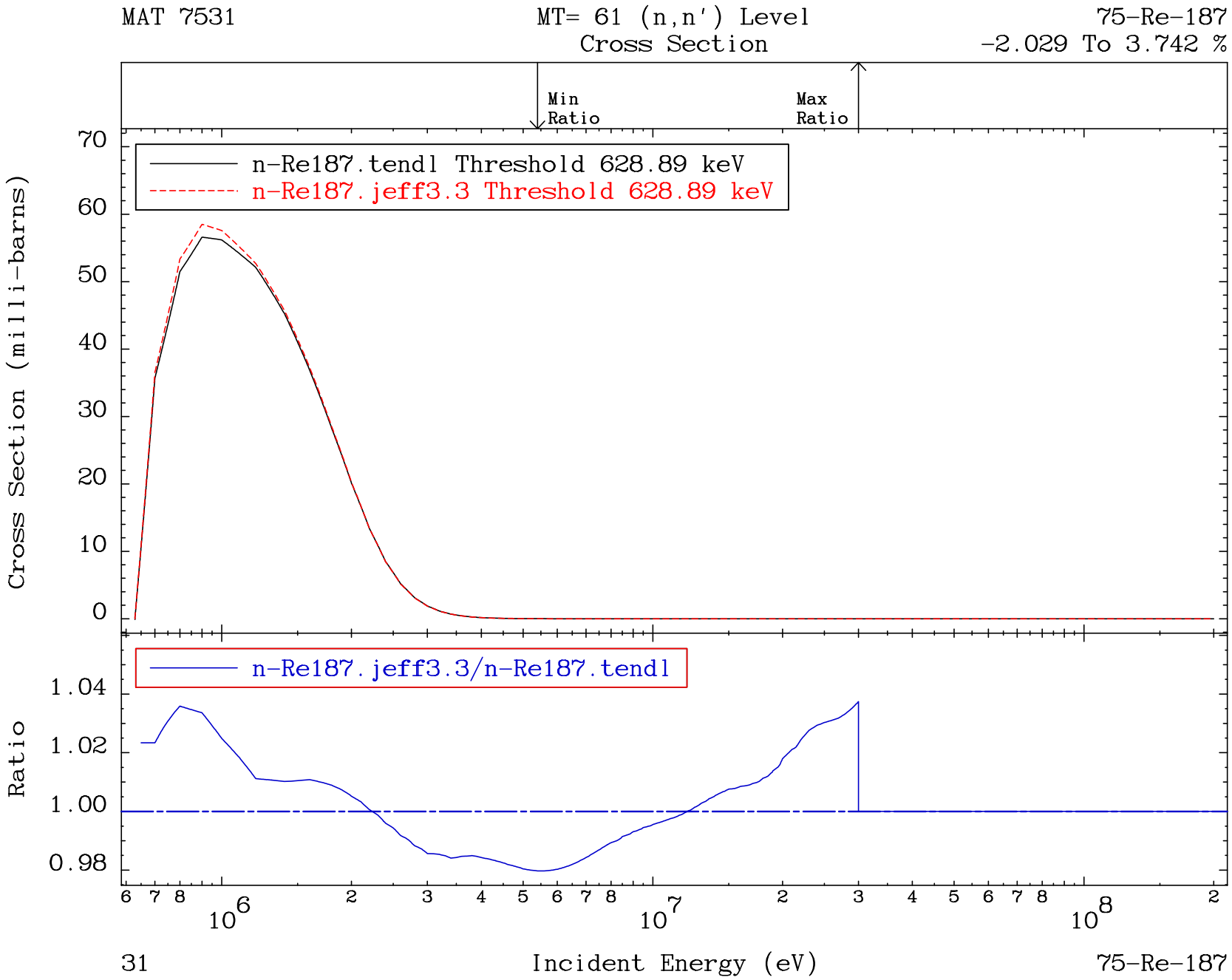

MAT 7531
MT= 56 (n,n') Level
Cross Section
75-Re-187
-2.053 To 5.220 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 514.53 keV
n-Re187.jeff3.3 Threshold 514.53 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.00
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
75-Re-187

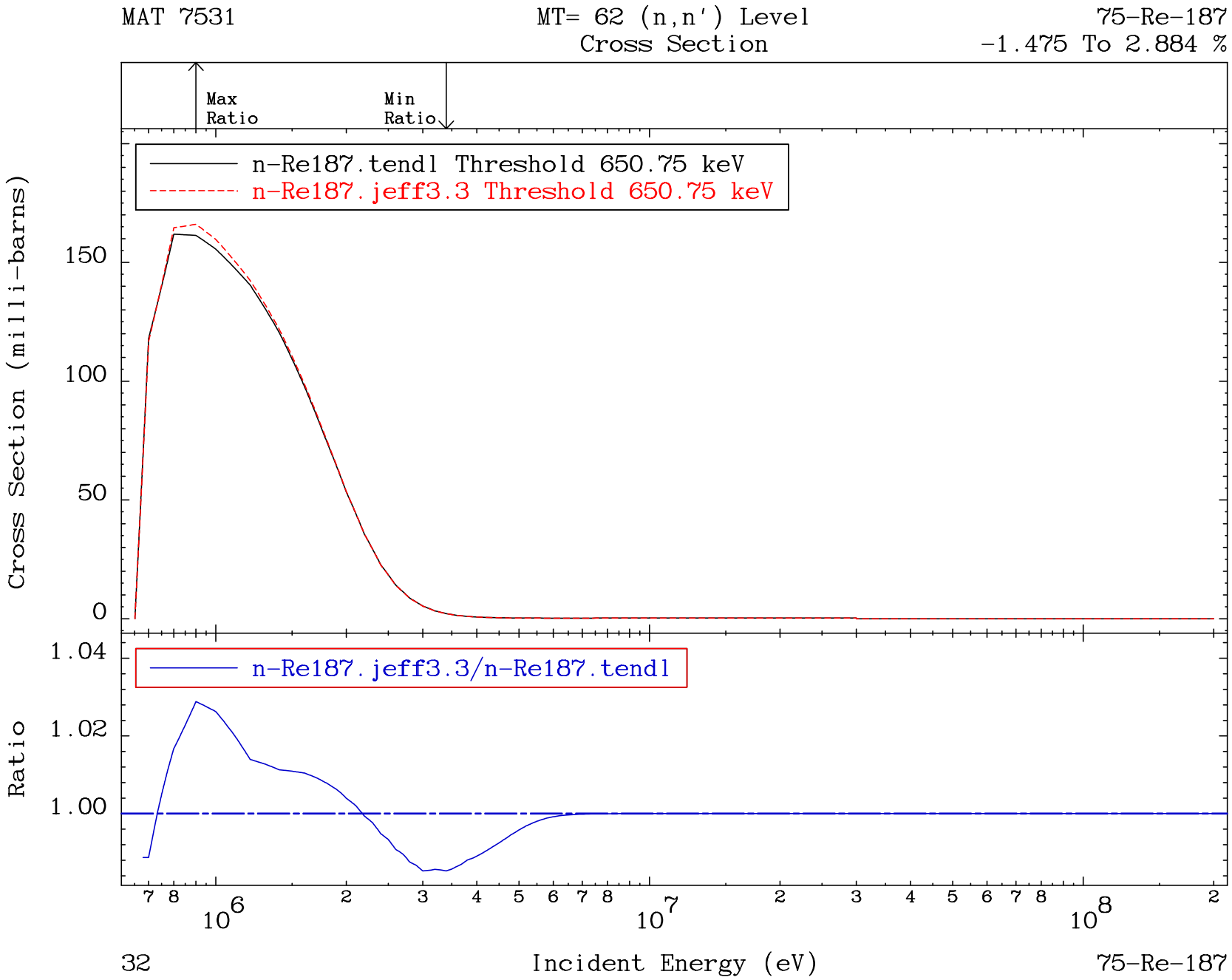

MAT 7531
MT= 57 (n,n') Level
Cross Section
75-Re-187
-3.549 To 2.969 %
Min Ratio
Max Ratio
n-Re187.tendl Threshold 585.13 keV
n-Re187.jeff3.3 Threshold 585.13 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.02
1.00
0.98
0.96
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
75-Re-187

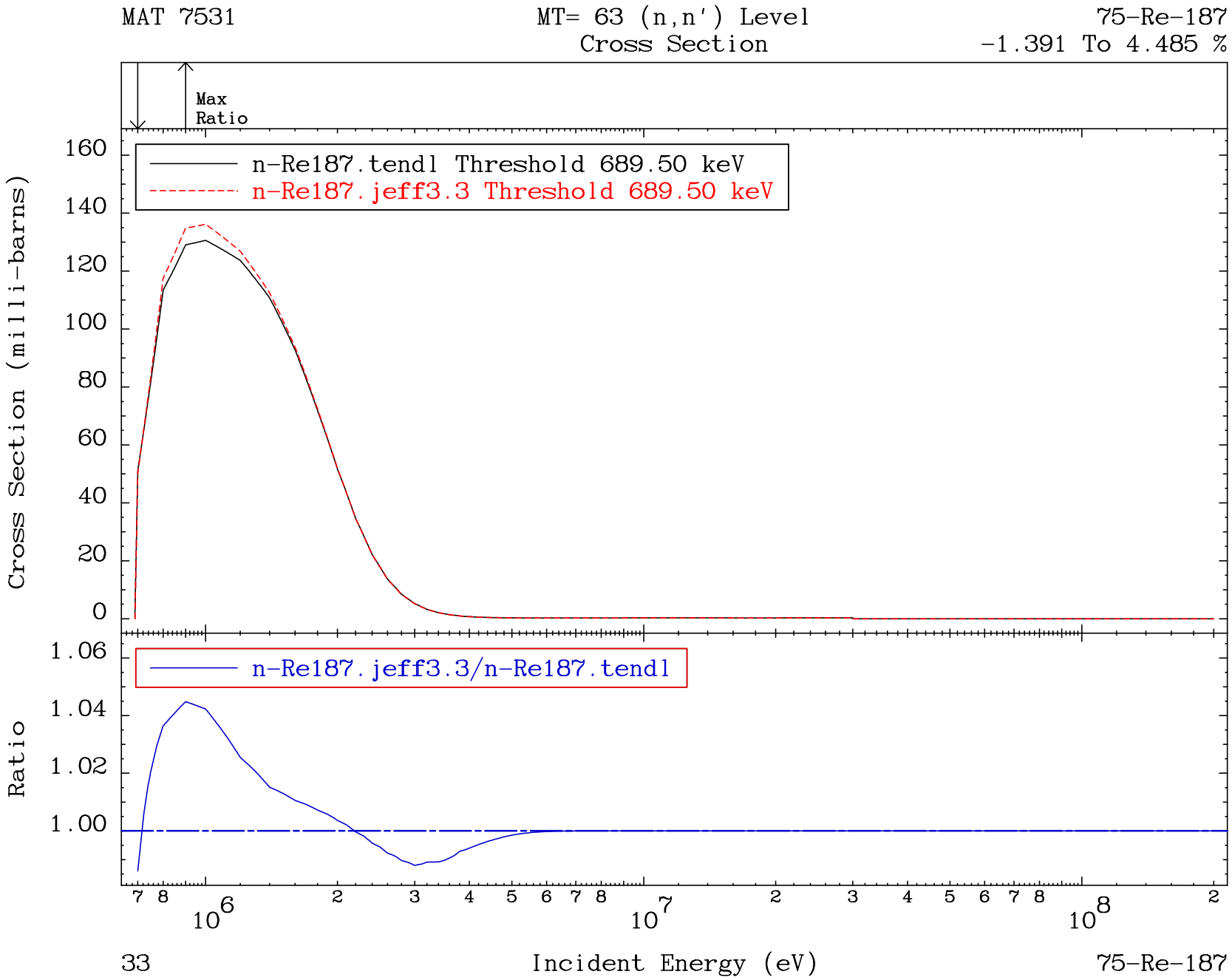

MAT 7531
MT= 58 (n,n') Level
Cross Section
75-Re-187
-3.402 To 3.335 %
Max
Ratio
n-Re187.tendl Threshold 592.32 keV
n-Re187.jeff3.3 Threshold 592.32 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.00
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
75-Re-187

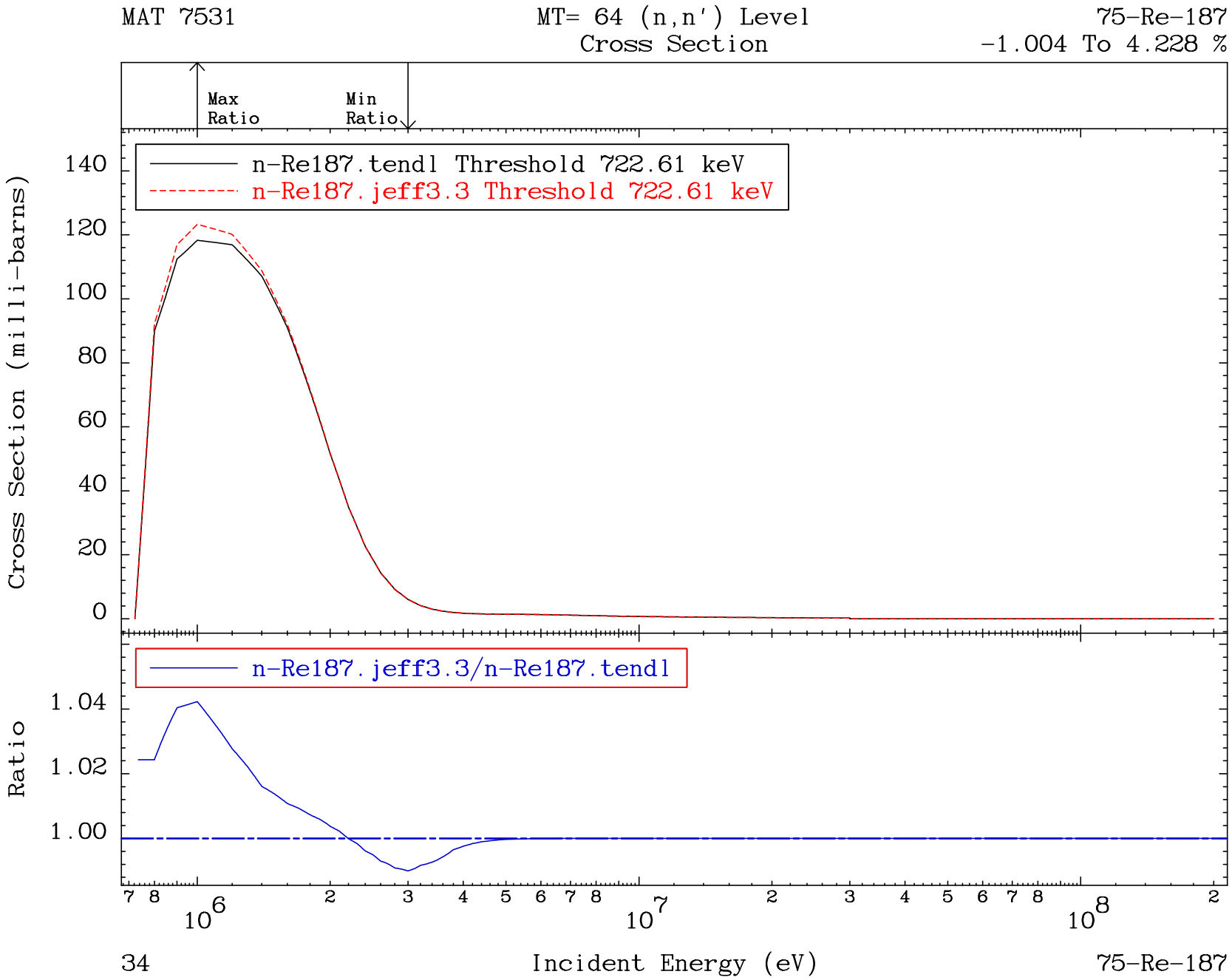

MAT 7531
MT= 59 (n,n') Level
Cross Section
75-Re-187
-1.613 To 9.466 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 606.73 keV
n-Re187.jeff3.3 Threshold 606.73 keV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
75-Re-187

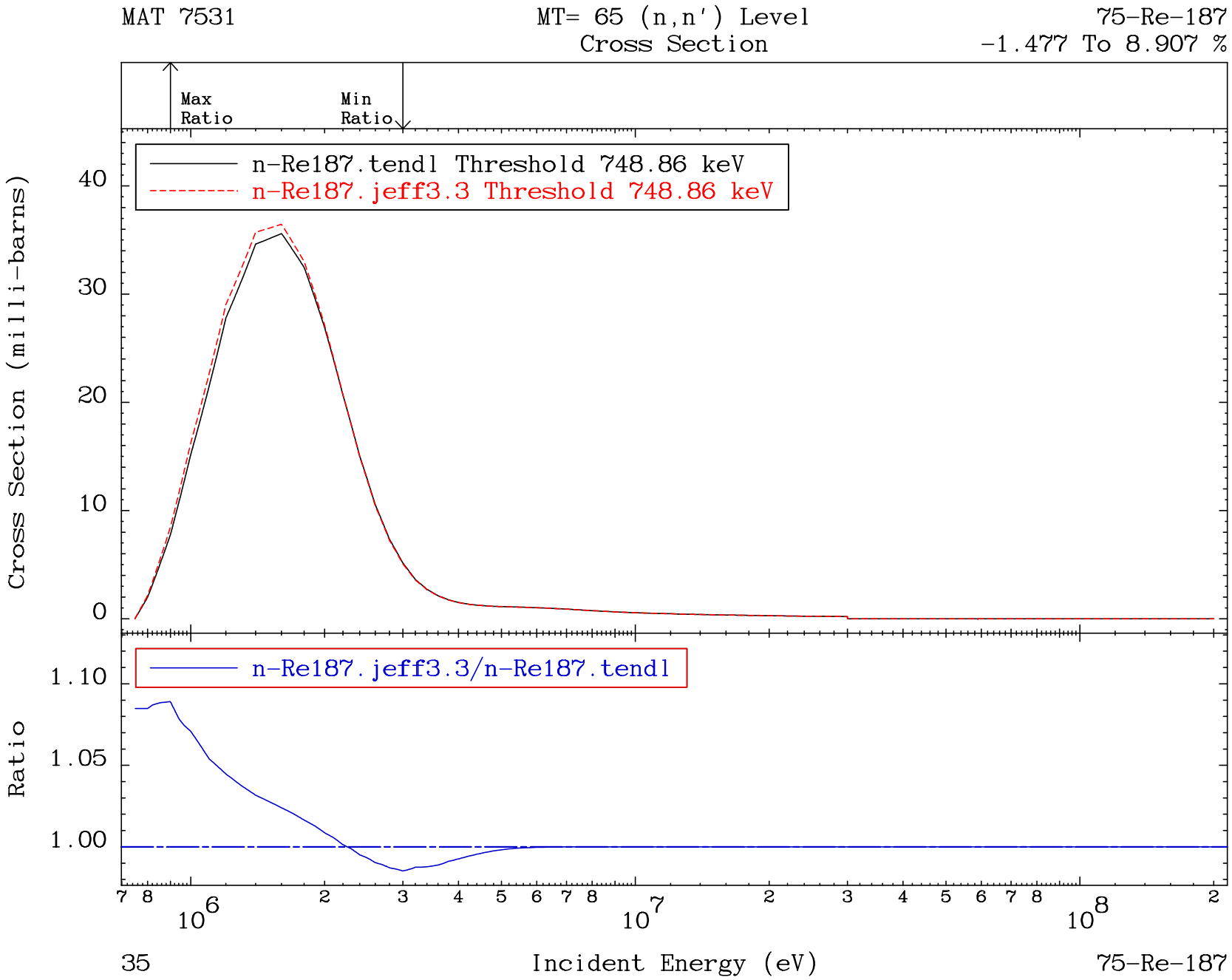

MAT 7531
MT= 60 (n,n') Level
Cross Section
75-Re-187
-1.434 To 3.284 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 621.71 keV
n-Re187.jeff3.3 Threshold 621.71 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.02
1.00
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
75-Re-187

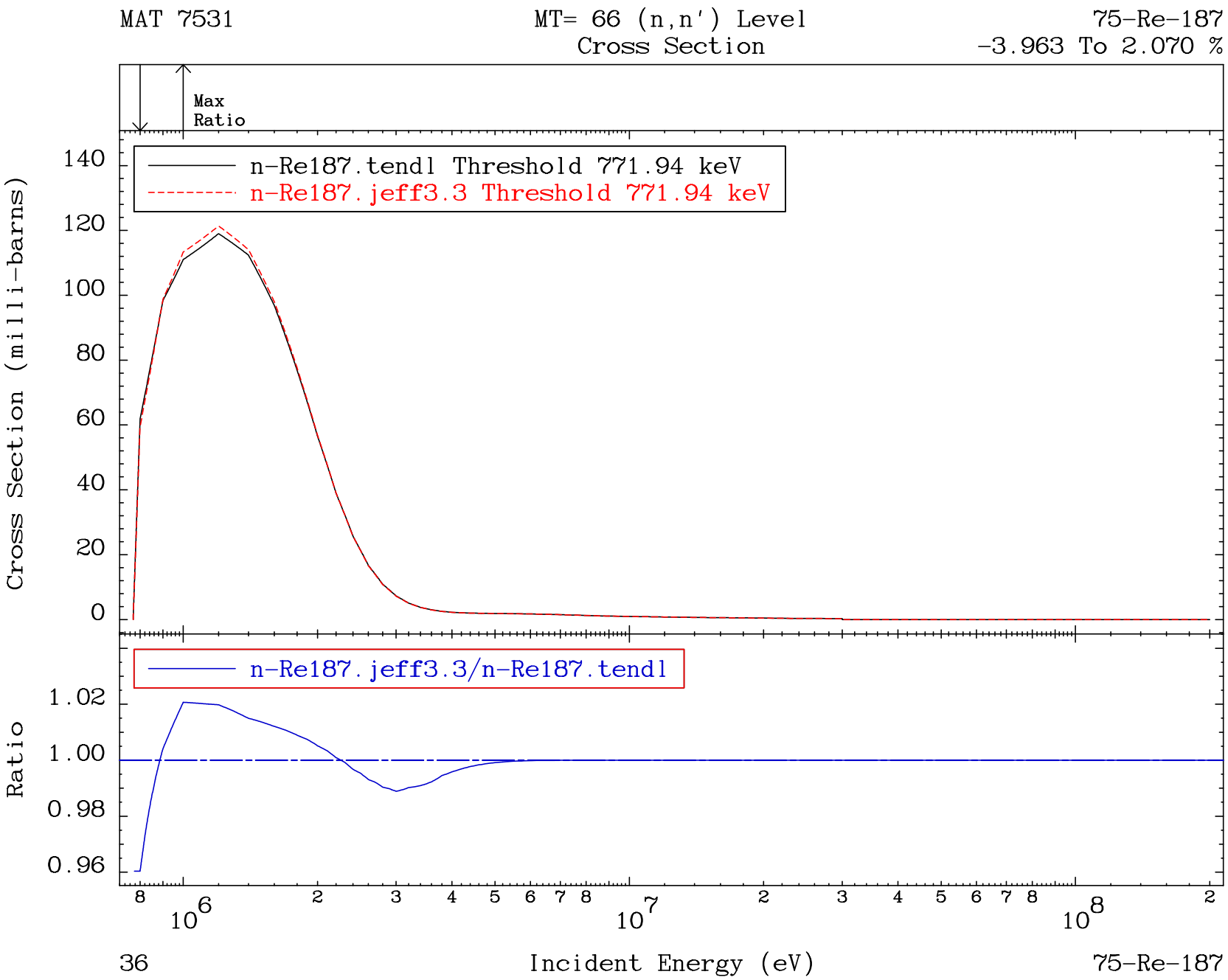

MAT 7531
MT= 61 (n,n') Level
Cross Section
75-Re-187
-2.029 To 3.742 %
Min
Ratio
Max
Ratio
n-Re187.tendl Threshold 628.89 keV
n-Re187.jeff3.3 Threshold 628.89 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.02
1.00
0.98
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
75-Re-187

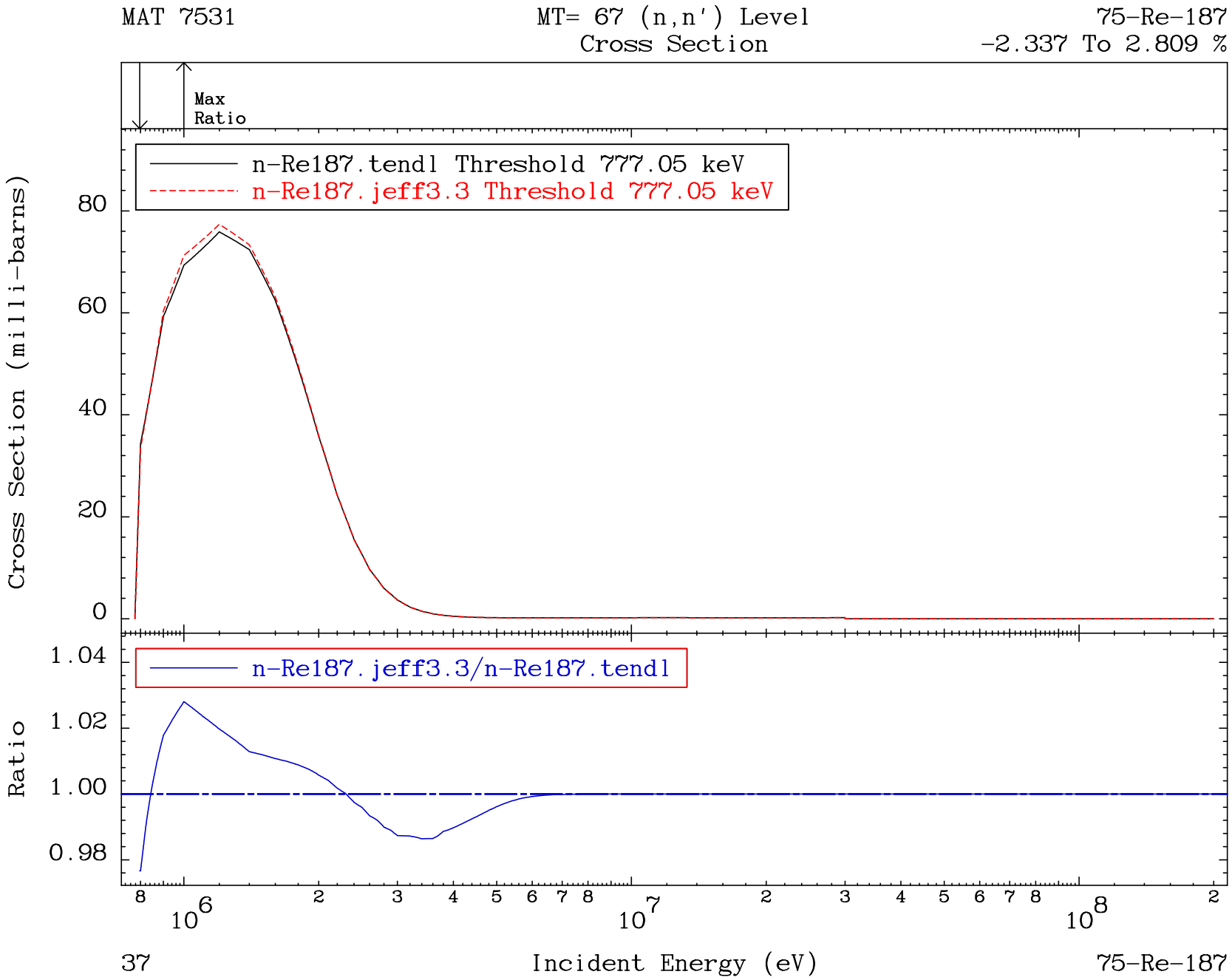

MAT 7531
MT= 62 (n,n') Level
Cross Section
75-Re-187
-1.475 To 2.884 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 650.75 keV
n-Re187.jeff3.3 Threshold 650.75 keV
Cross Section (milli-barns)
150
100
50
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.02
1.00
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
75-Re-187

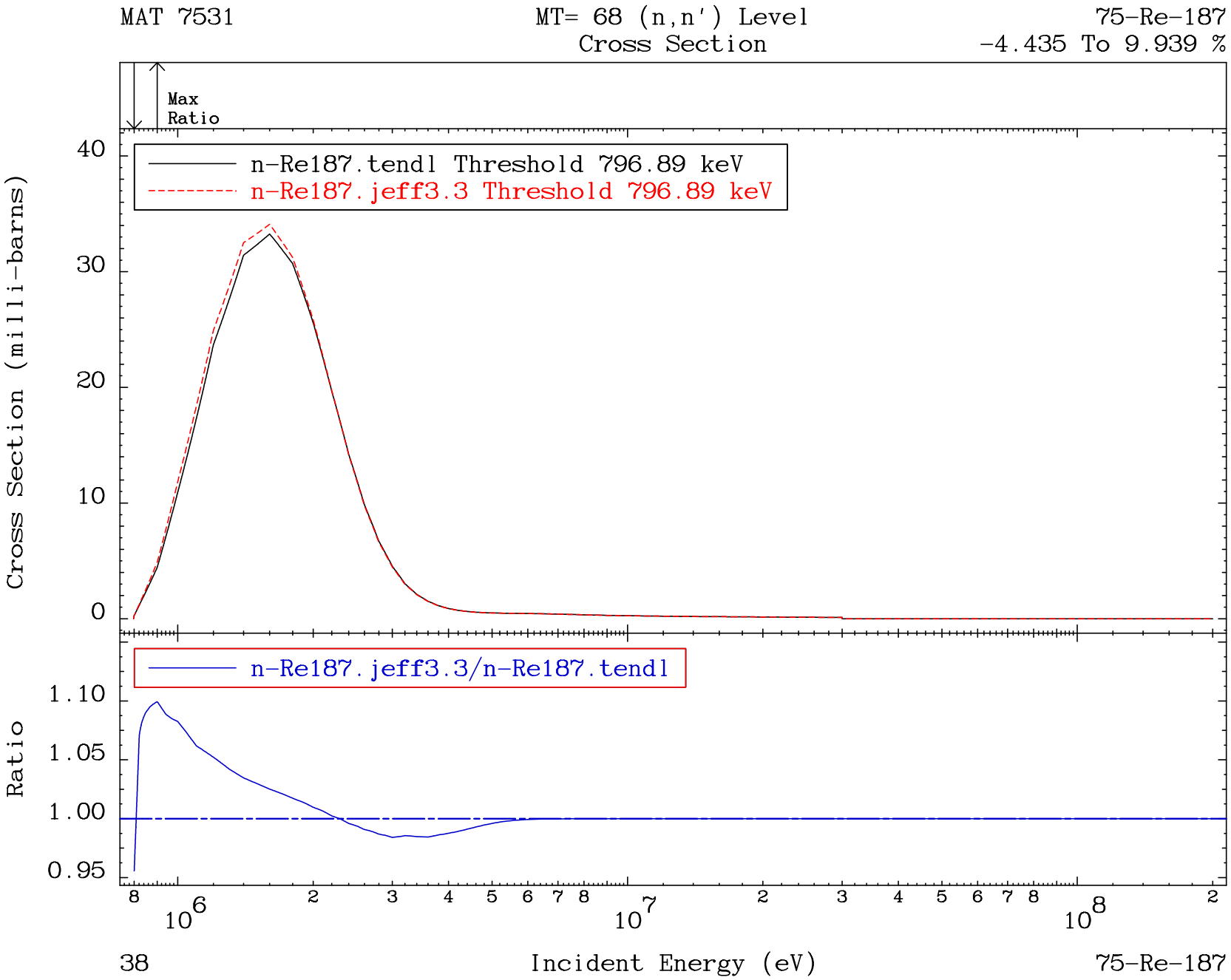

MAT 7531
MT= 63 (n,n') Level
Cross Section
75-Re-187
-1.391 To 4.485 %
Max
Ratio
n-Re187.tendl Threshold 689.50 keV
n-Re187.jeff3.3 Threshold 689.50 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.06
1.04
1.02
1.00
7 8
10^6
2
3
4
5
6
7 8
10^7
2
3
4
5
6
7 8
10^8
2
33
Incident Energy (eV)
75-Re-187

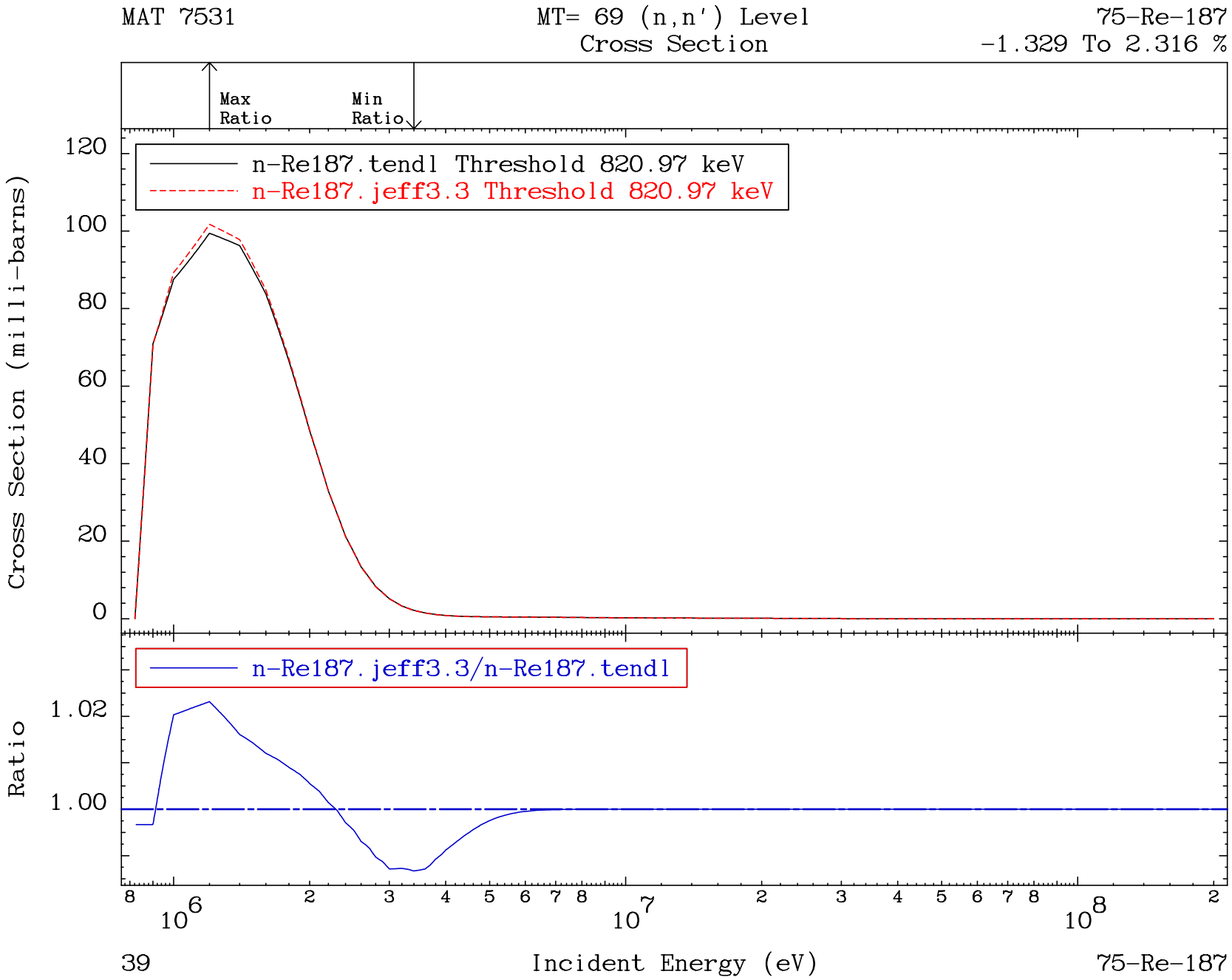

MAT 7531
MT= 64 (n,n') Level
Cross Section
75-Re-187
-1.004 To 4.228 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 722.61 keV
n-Re187.jeff3.3 Threshold 722.61 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.02
1.00
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
75-Re-187

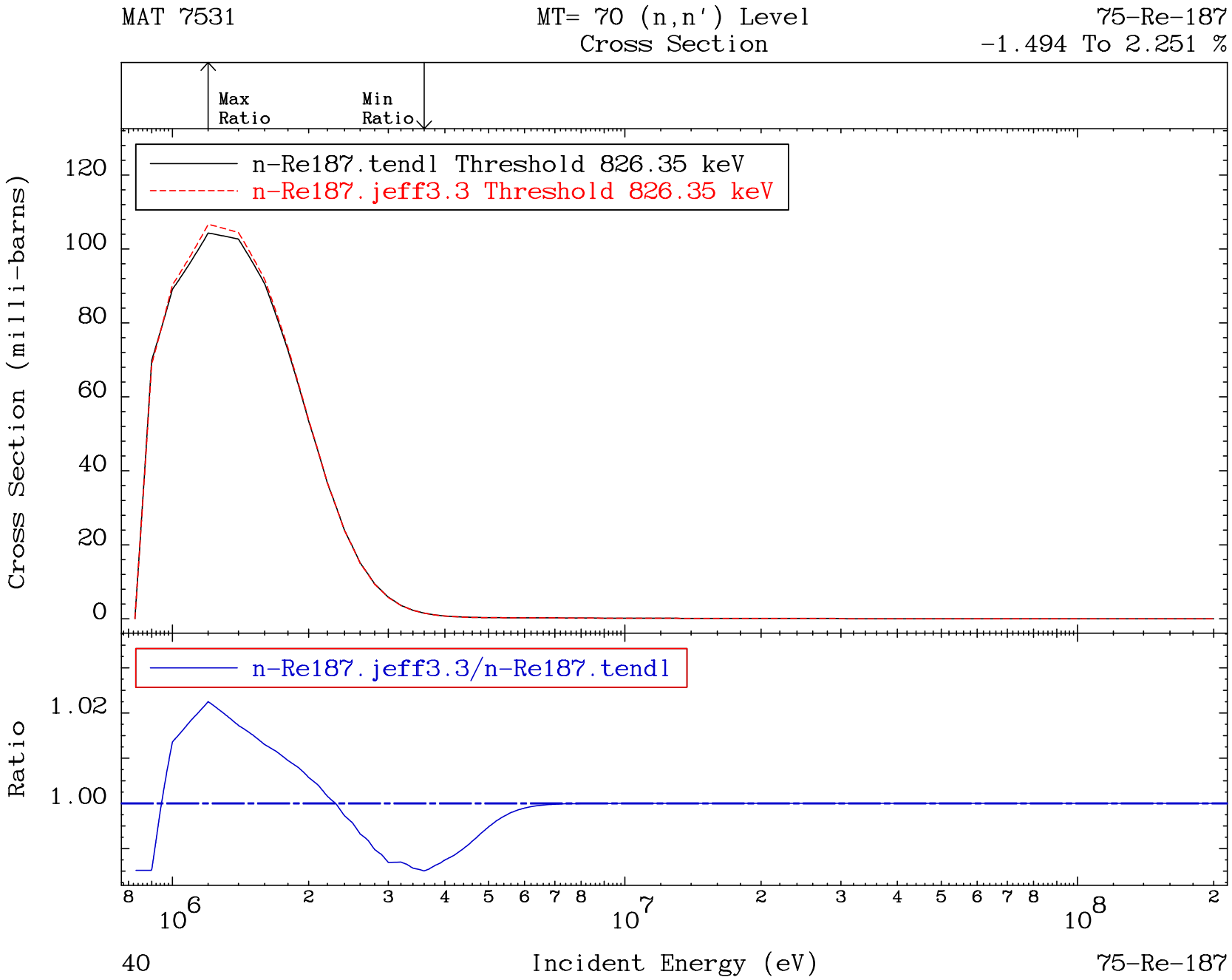

MAT 7531
MT= 65 (n,n') Level
Cross Section
75-Re-187
-1.477 To 8.907 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 748.86 keV
n-Re187.jeff3.3 Threshold 748.86 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
75-Re-187

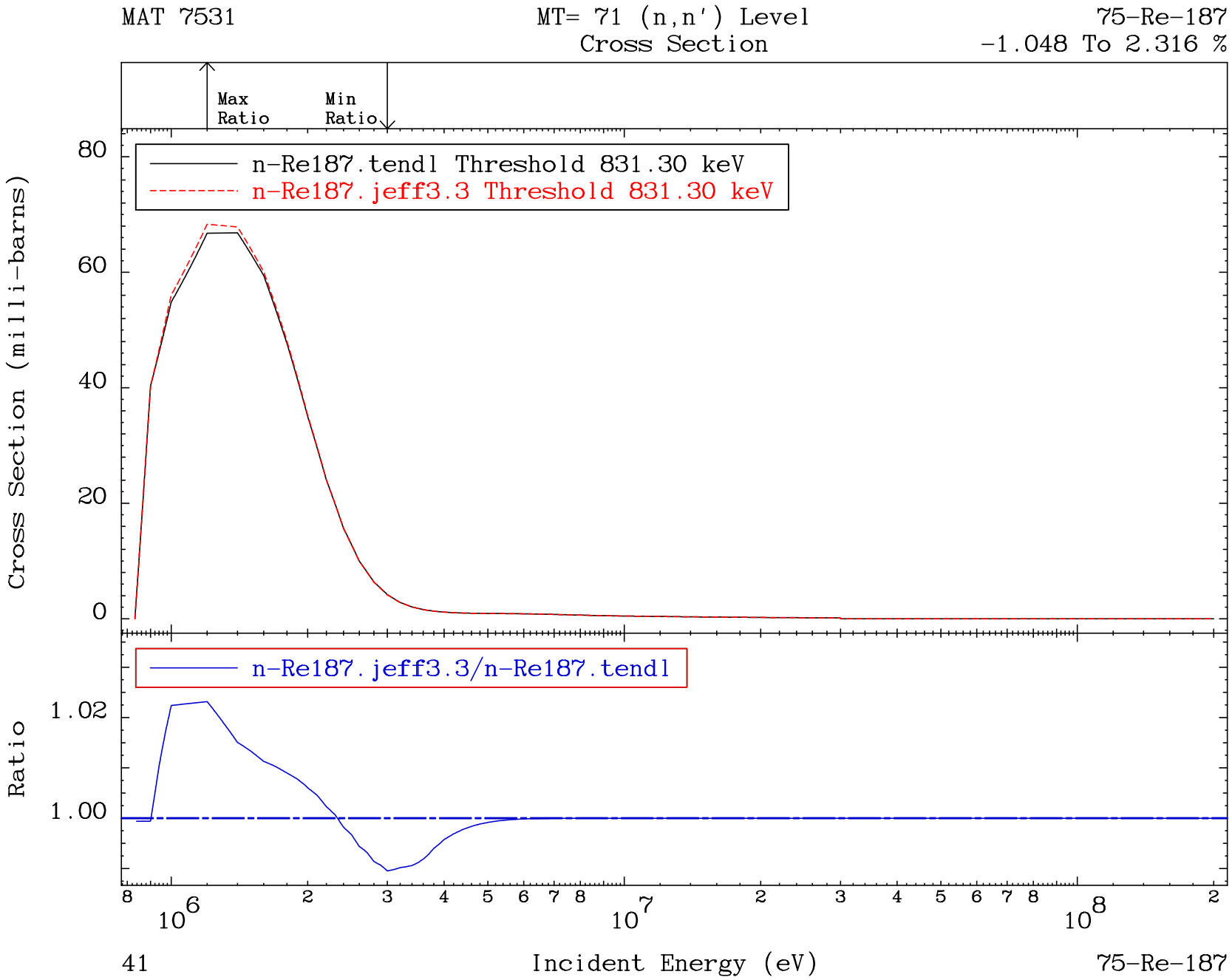

MAT 7531
MT= 66 (n,n') Level
Cross Section
75-Re-187
-3.963 To 2.070 %
Max
Ratio
n-Re187.tendl Threshold 771.94 keV
n-Re187.jeff3.3 Threshold 771.94 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.02
1.00
0.98
0.96
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
36
Incident Energy (eV)
75-Re-187

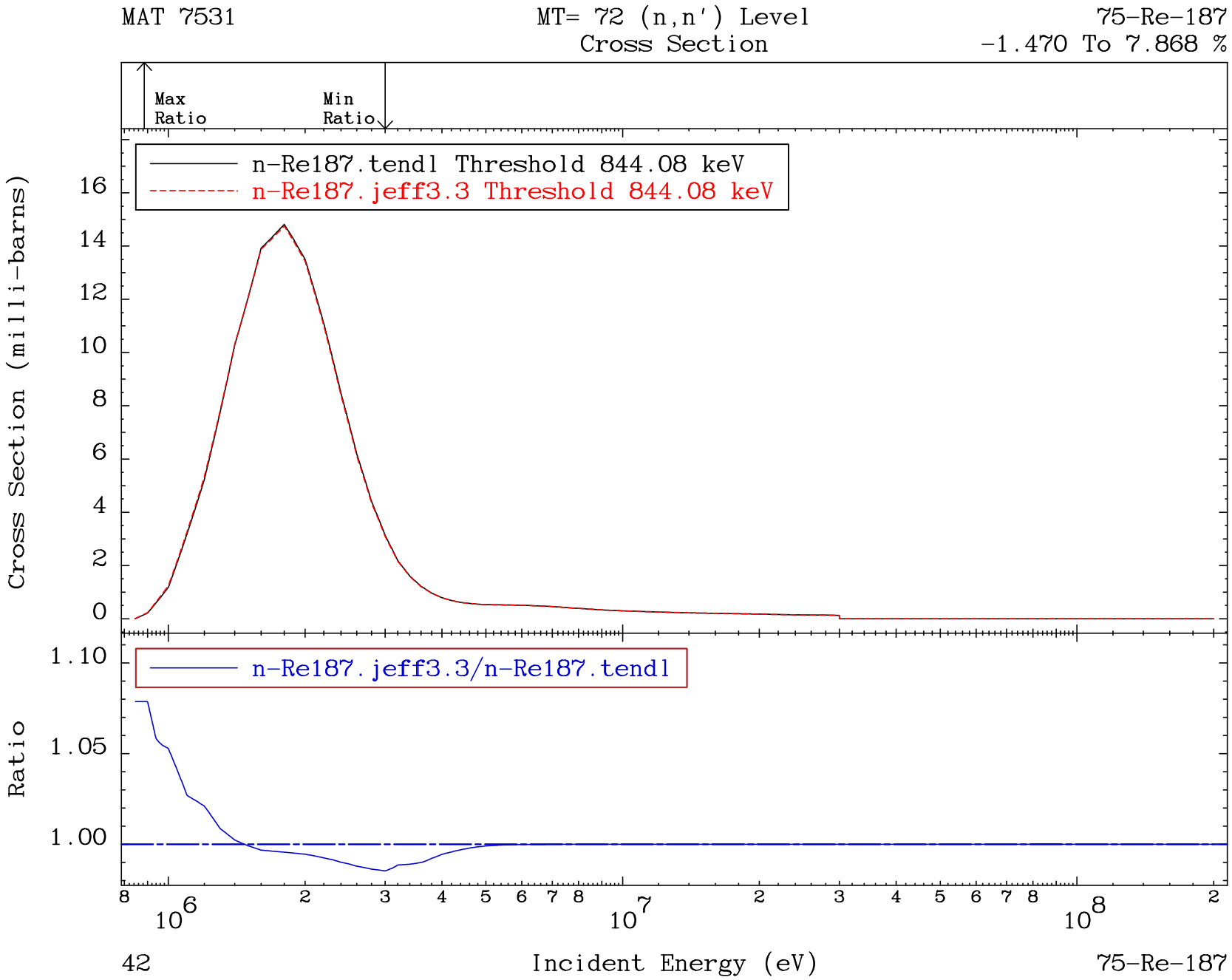

MAT 7531
MT= 67 (n,n') Level
Cross Section
75-Re-187
-2.337 To 2.809 %
Max
Ratio
n-Re187.tendl Threshold 777.05 keV
n-Re187.jeff3.3 Threshold 777.05 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.02
1.00
0.98
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
37
Incident Energy (eV)
75-Re-187

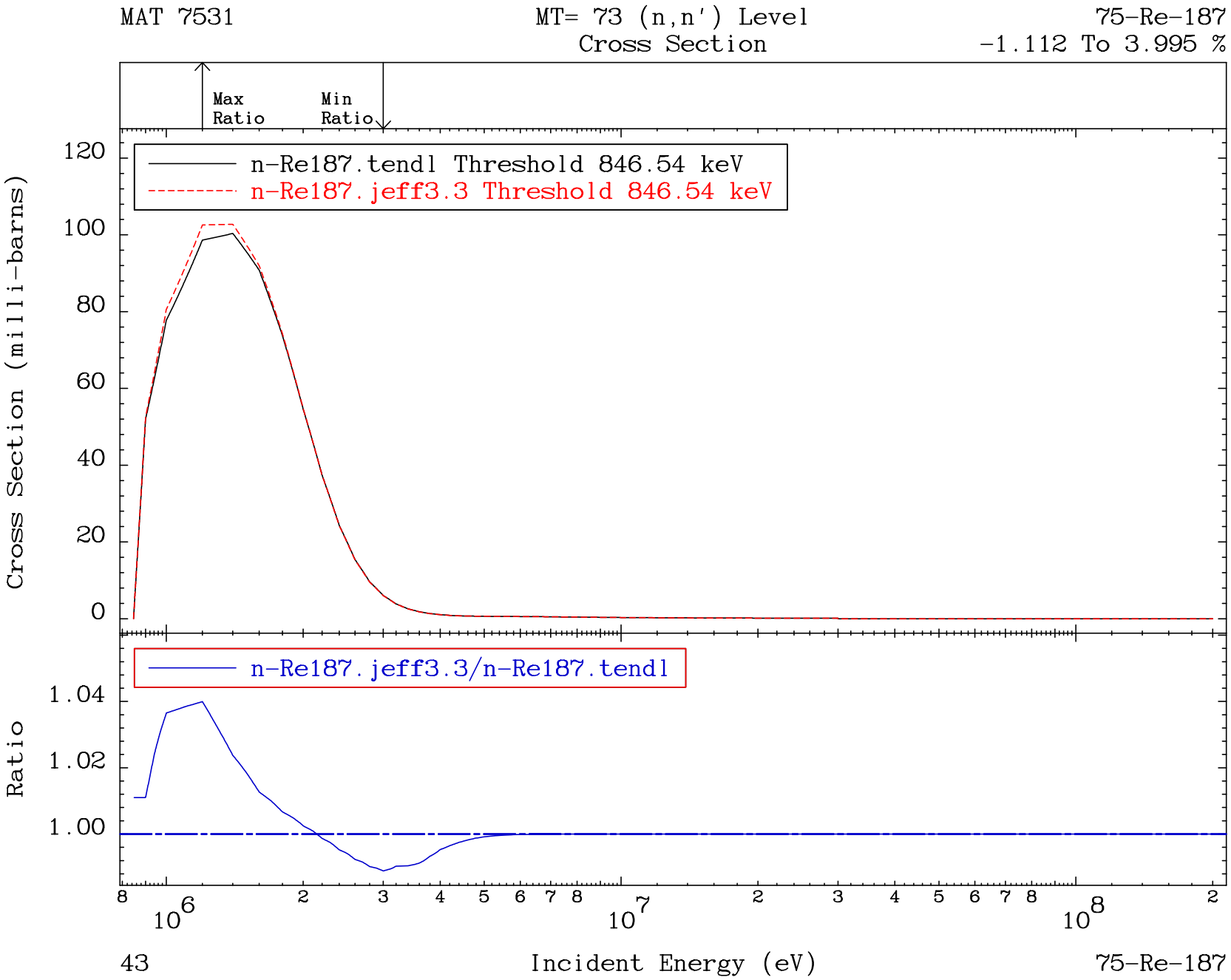

MAT 7531
MT= 68 (n,n') Level
Cross Section
75-Re-187
-4.435 To 9.939 %
Max
Ratio
n-Re187.tendl Threshold 796.89 keV
n-Re187.jeff3.3 Threshold 796.89 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
0.95
8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2
10^6
10^7
10^8
38
Incident Energy (eV)
75-Re-187

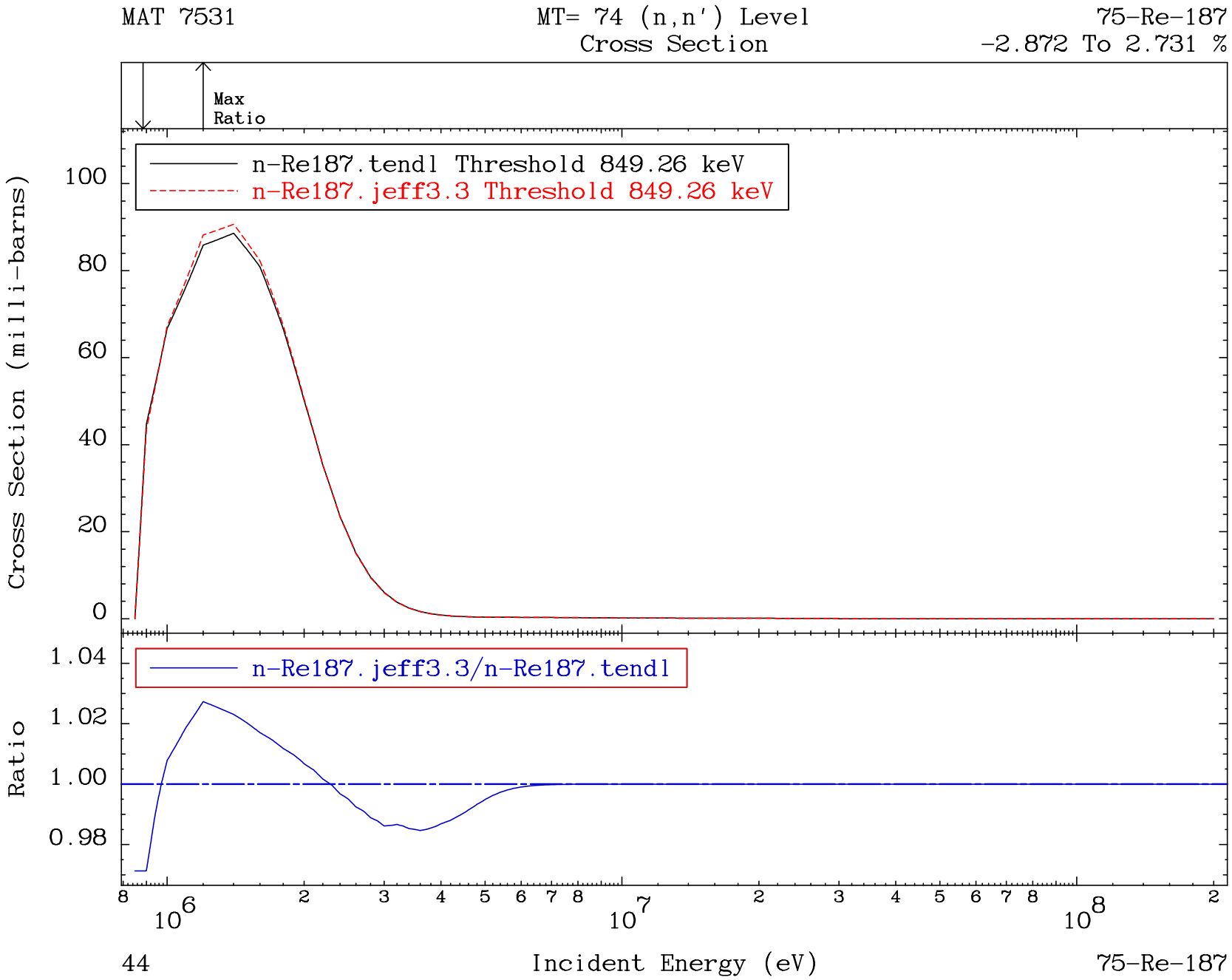

MAT 7531
MT= 69 (n,n') Level
Cross Section
75-Re-187
-1.329 To 2.316 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 820.97 keV
n-Re187.jeff3.3 Threshold 820.97 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.02
1.00
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
39
Incident Energy (eV)
75-Re-187

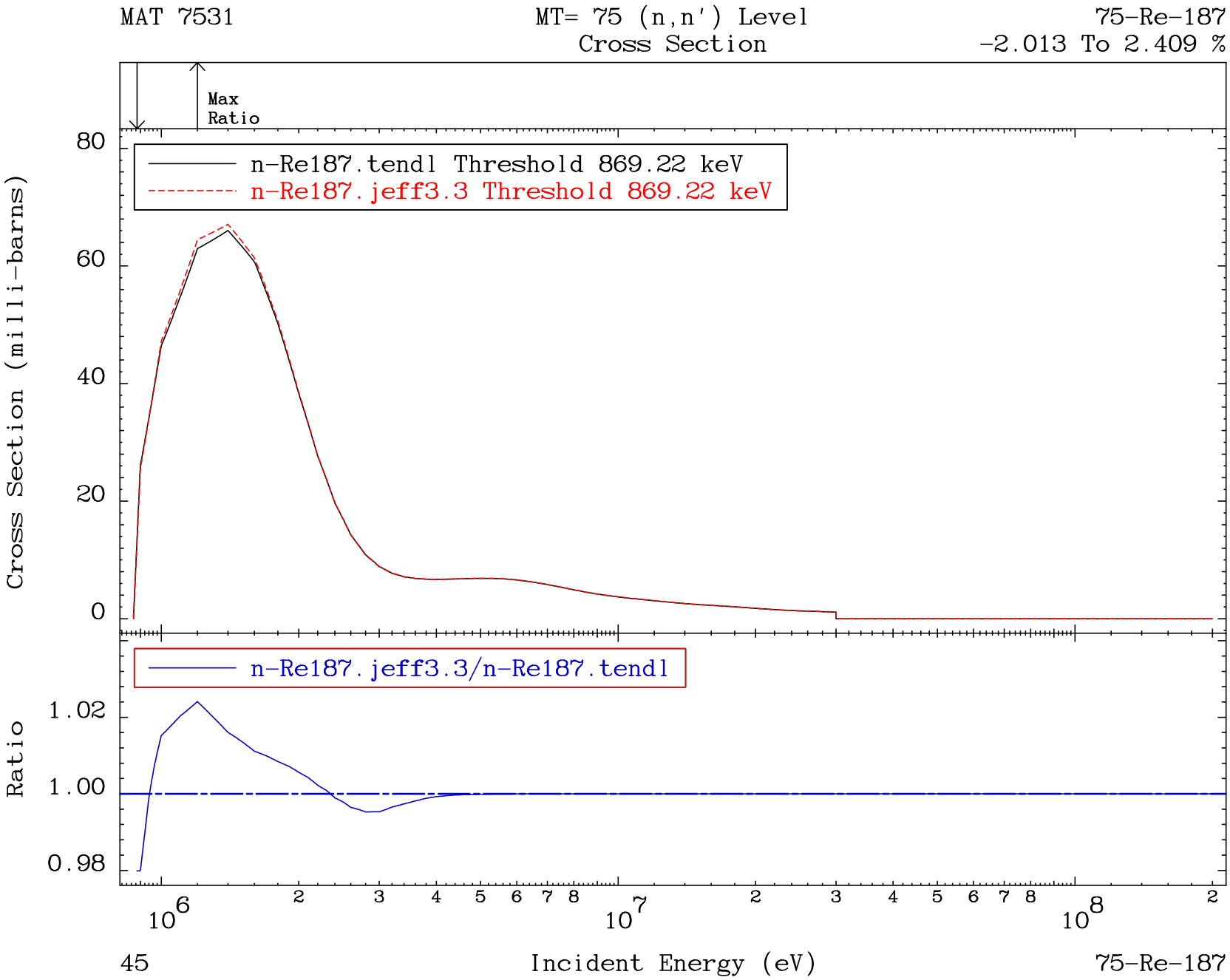

MAT 7531
MT= 70 (n,n') Level
Cross Section
75-Re-187
-1.494 To 2.251 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 826.35 keV
n-Re187.jeff3.3 Threshold 826.35 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.02
1.00
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
40
Incident Energy (eV)
75-Re-187

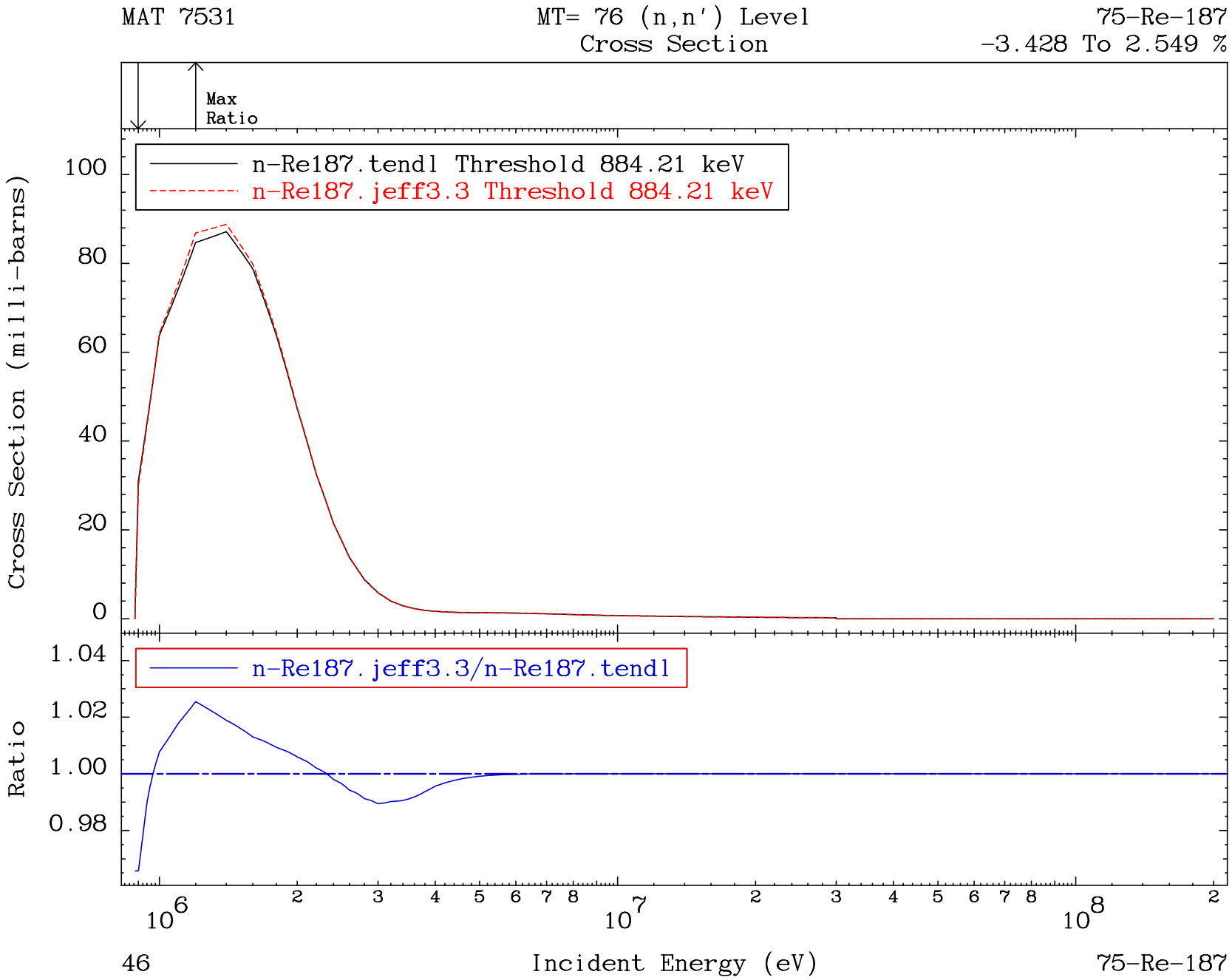

MAT 7531
MT= 71 (n,n') Level
Cross Section
75-Re-187
-1.048 To 2.316 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 831.30 keV
n-Re187.jeff3.3 Threshold 831.30 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.02
1.00
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
41
Incident Energy (eV)
75-Re-187

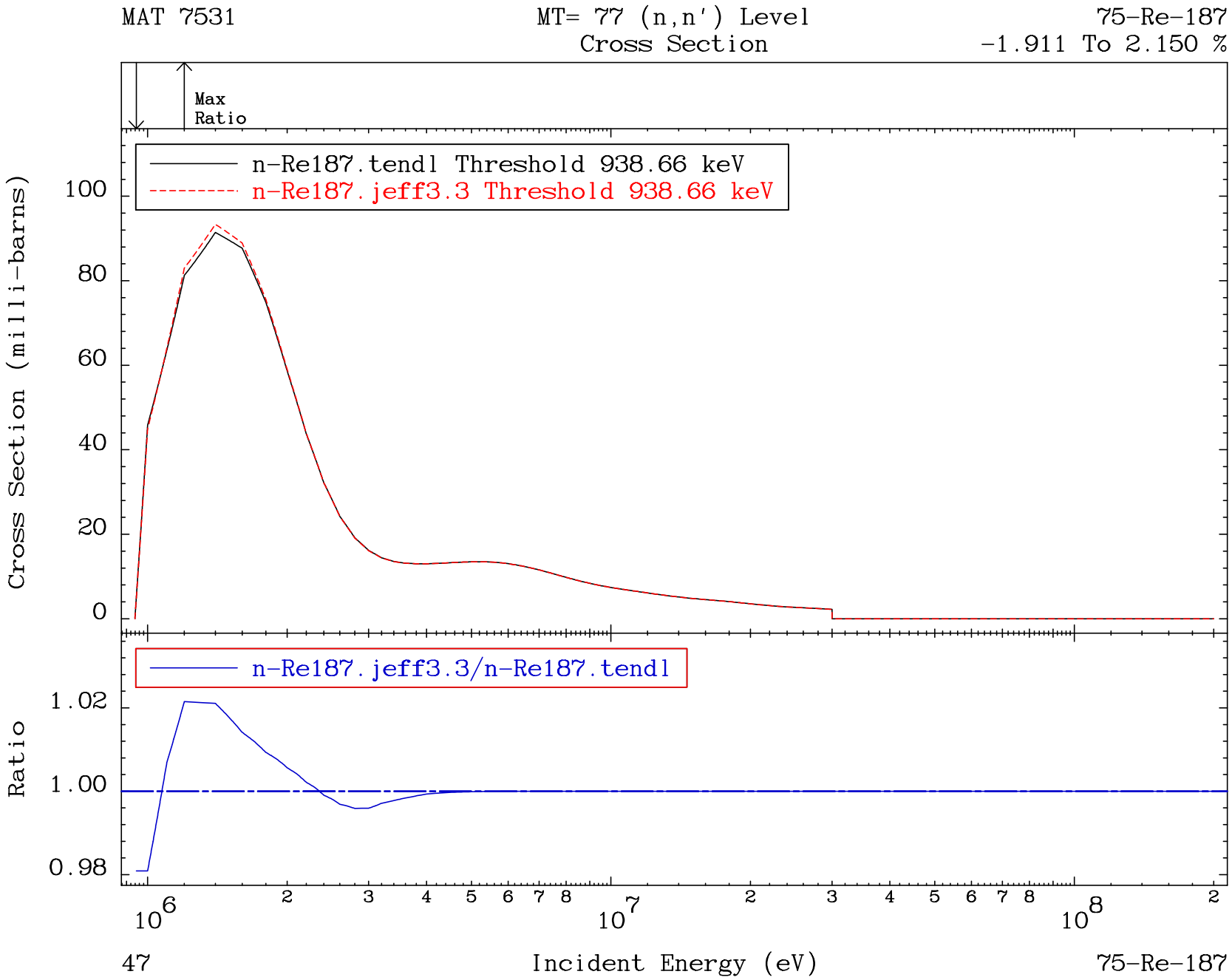

MAT 7531
MT= 72 (n,n') Level
Cross Section
75-Re-187
-1.470 To 7.868 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 844.08 keV
n-Re187.jeff3.3 Threshold 844.08 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.00
1.05
1.10
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
42
75-Re-187

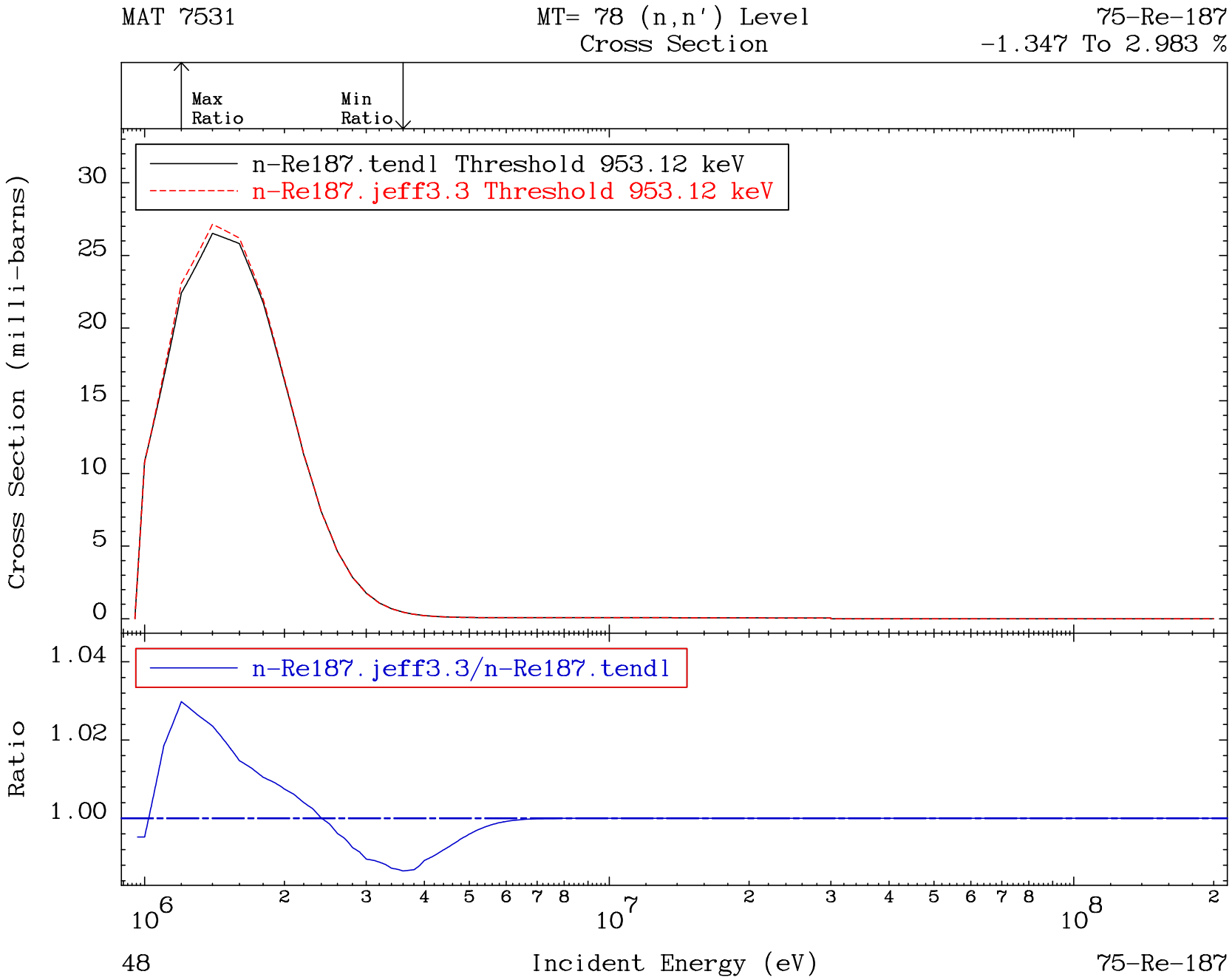

MAT 7531
MT= 73 (n,n') Level
Cross Section
75-Re-187
-1.112 To 3.995 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 846.54 keV
n-Re187.jeff3.3 Threshold 846.54 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.02
1.00
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
43
Incident Energy (eV)
75-Re-187

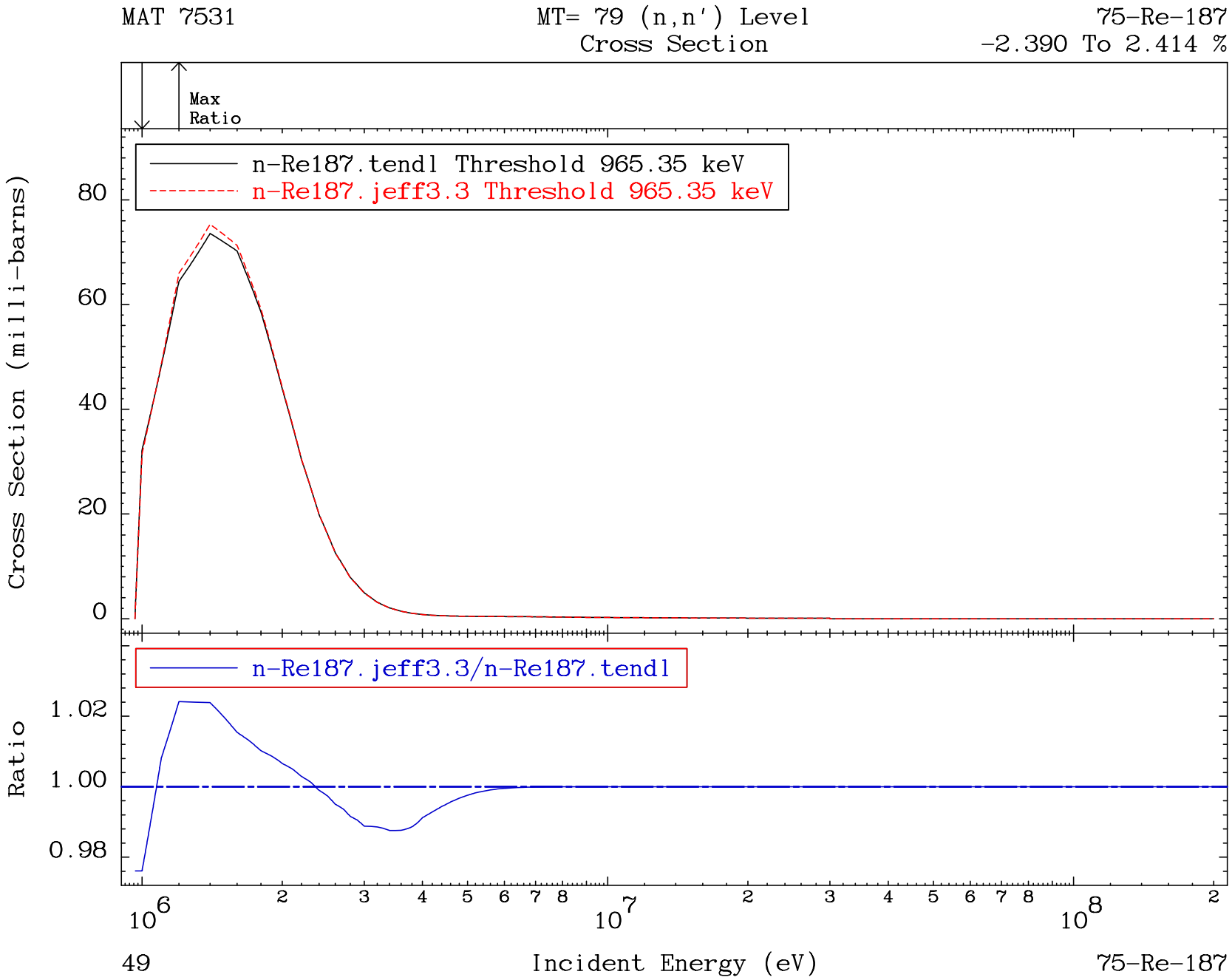

MAT 7531
MT= 74 (n,n') Level
Cross Section
75-Re-187
-2.872 To 2.731 %
Max
Ratio
n-Re187.tendl Threshold 849.26 keV
n-Re187.jeff3.3 Threshold 849.26 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.02
1.00
0.98
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
44
Incident Energy (eV)
75-Re-187

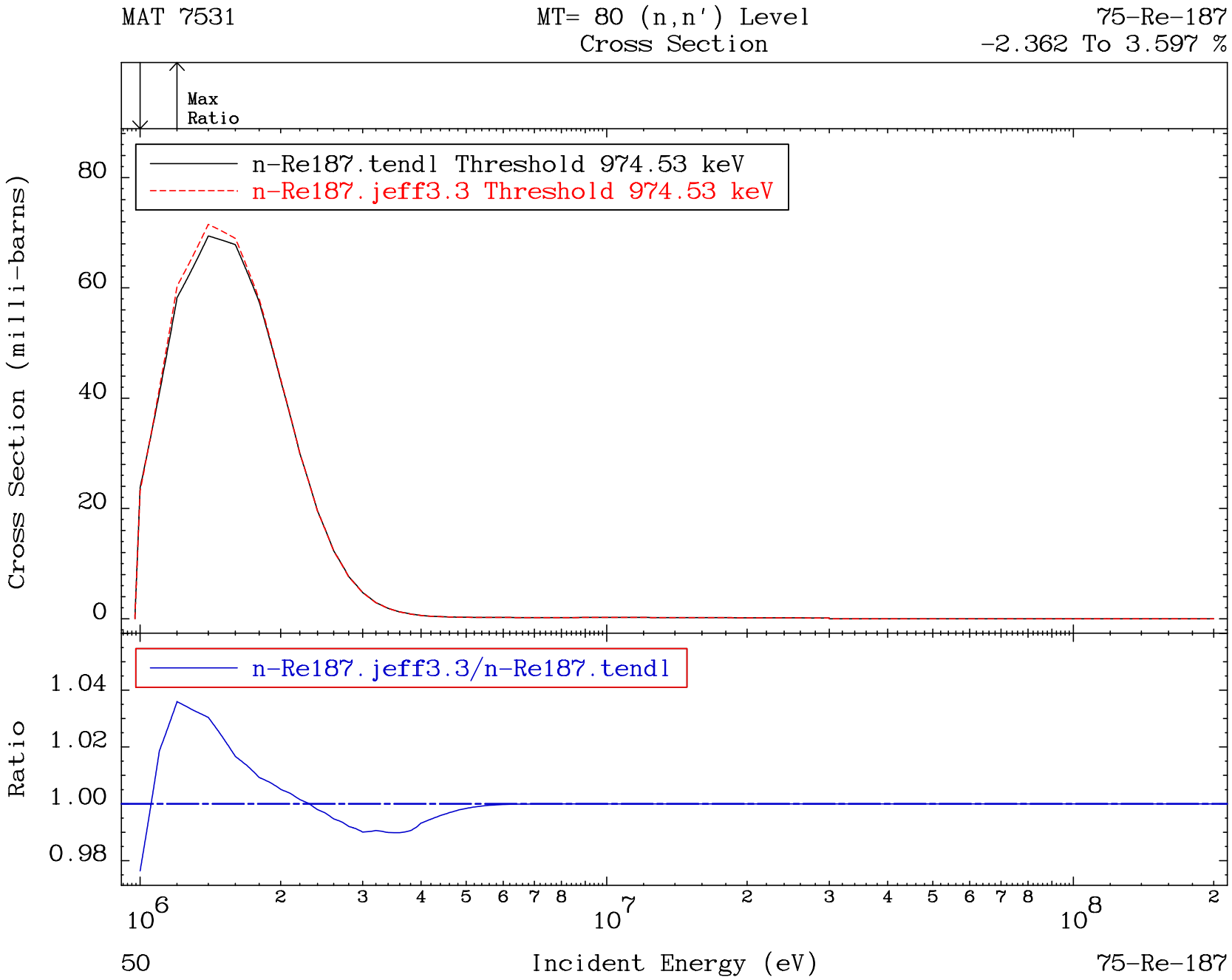

MAT 7531
MT= 75 (n,n') Level
Cross Section
75-Re-187
-2.013 To 2.409 %
Max
Ratio
n-Re187.tendl Threshold 869.22 keV
n-Re187.jeff3.3 Threshold 869.22 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.02
1.00
0.98
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
45
Incident Energy (eV)
75-Re-187

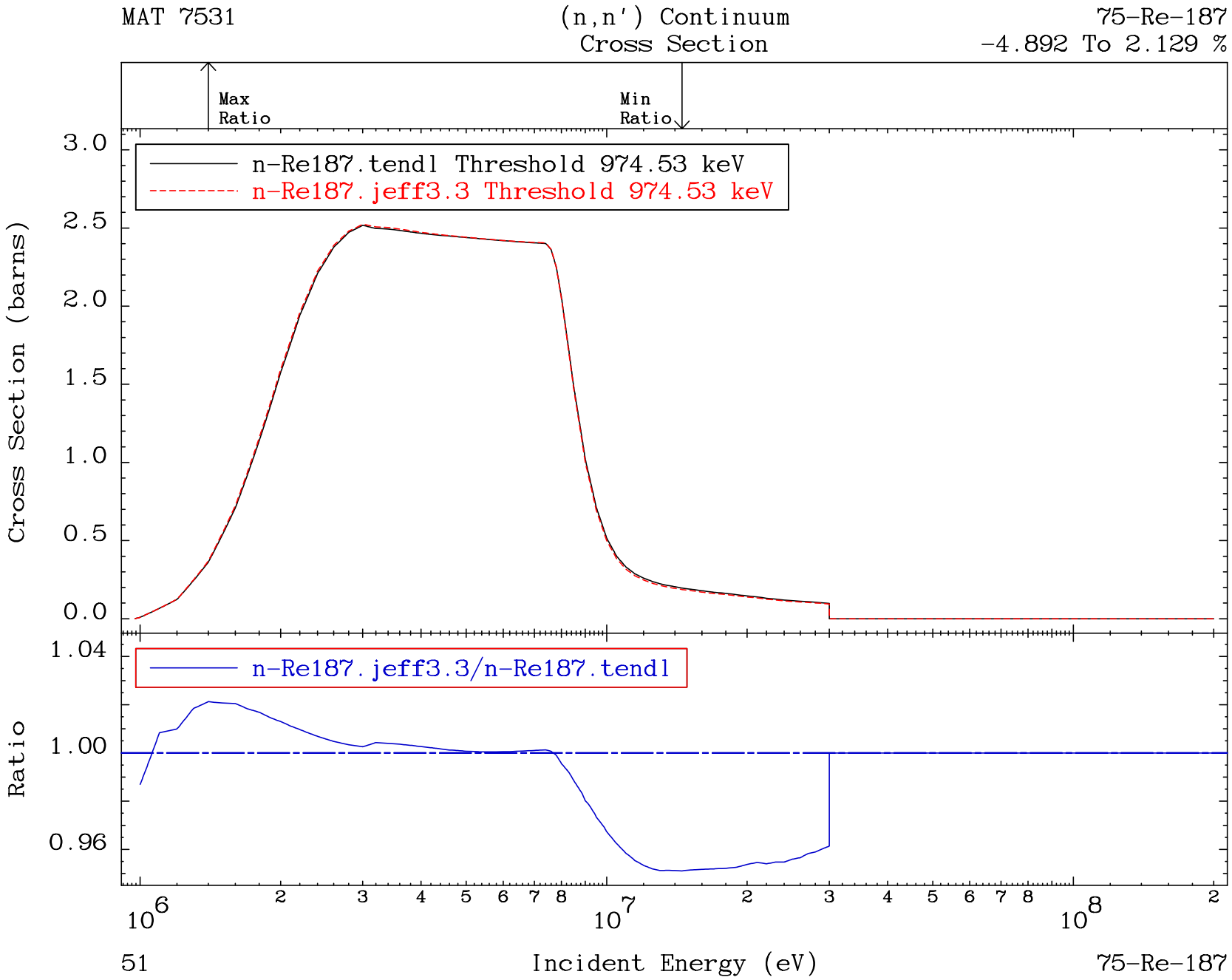

MAT 7531
MT= 76 (n,n') Level
Cross Section
75-Re-187
-3.428 To 2.549 %
Max
Ratio
n-Re187.tendl Threshold 884.21 keV
n-Re187.jeff3.3 Threshold 884.21 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.02
1.00
0.98
10^6
10^7
10^8
46
Incident Energy (eV)
75-Re-187

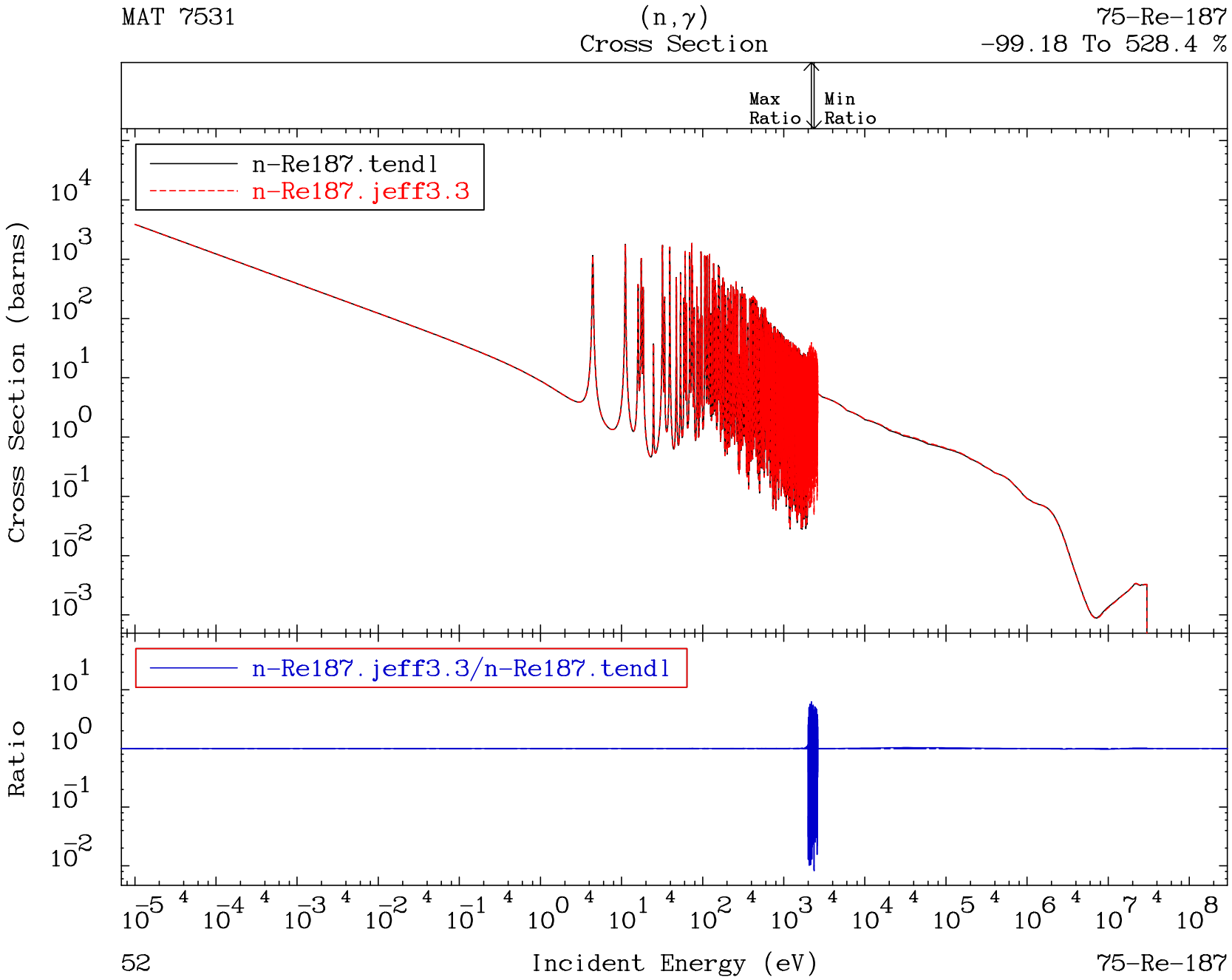

MAT 7531
MT= 77 (n,n') Level
Cross Section
75-Re-187
-1.911 To 2.150 %
Max
Ratio
n-Re187.tendl Threshold 938.66 keV
n-Re187.jeff3.3 Threshold 938.66 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.02
1.00
0.98
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
47
Incident Energy (eV)
75-Re-187

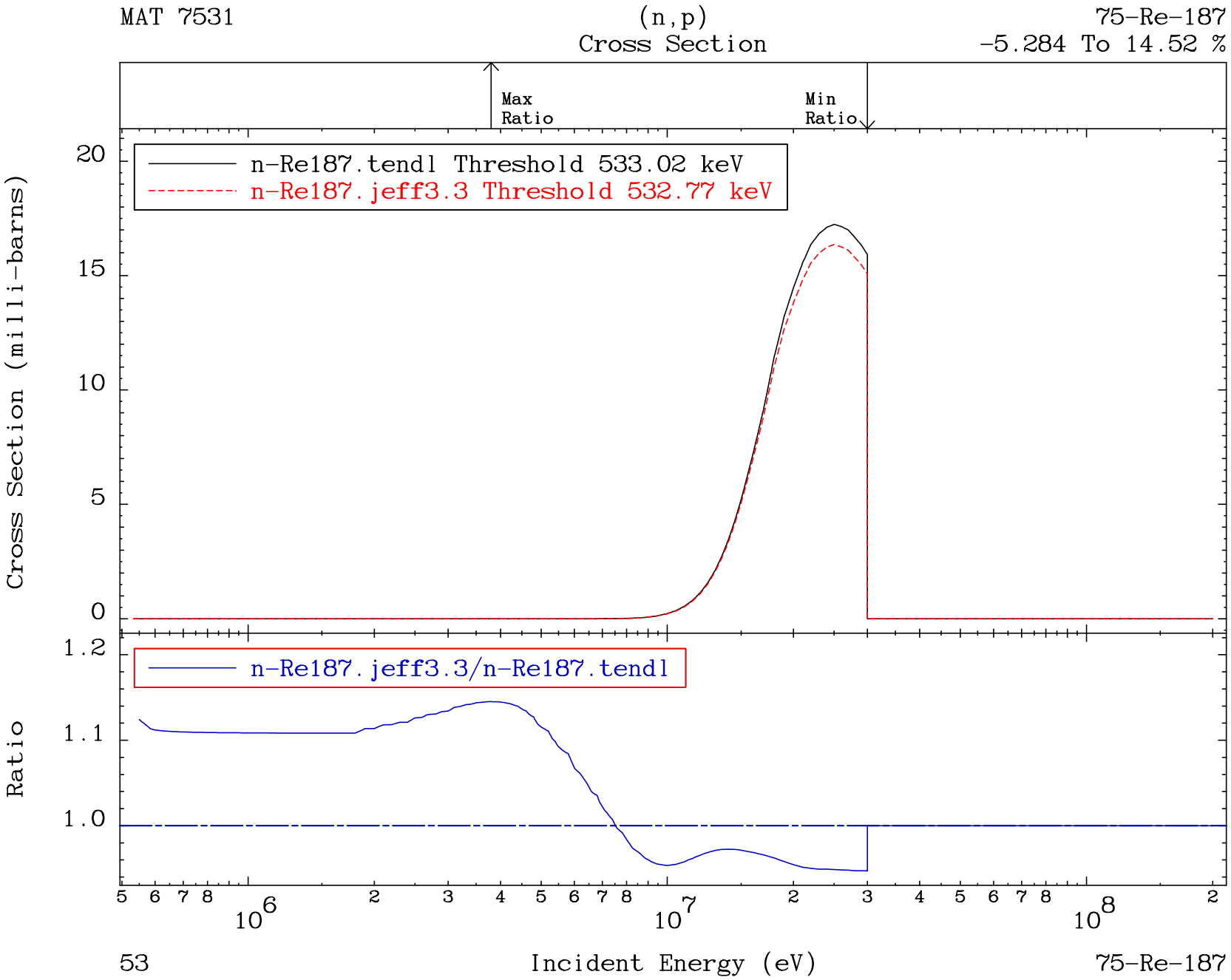

MAT 7531
MT= 78 (n,n') Level
Cross Section
75-Re-187
-1.347 To 2.983 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 953.12 keV
n-Re187.jeff3.3 Threshold 953.12 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.02
1.00
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
48
Incident Energy (eV)
75-Re-187

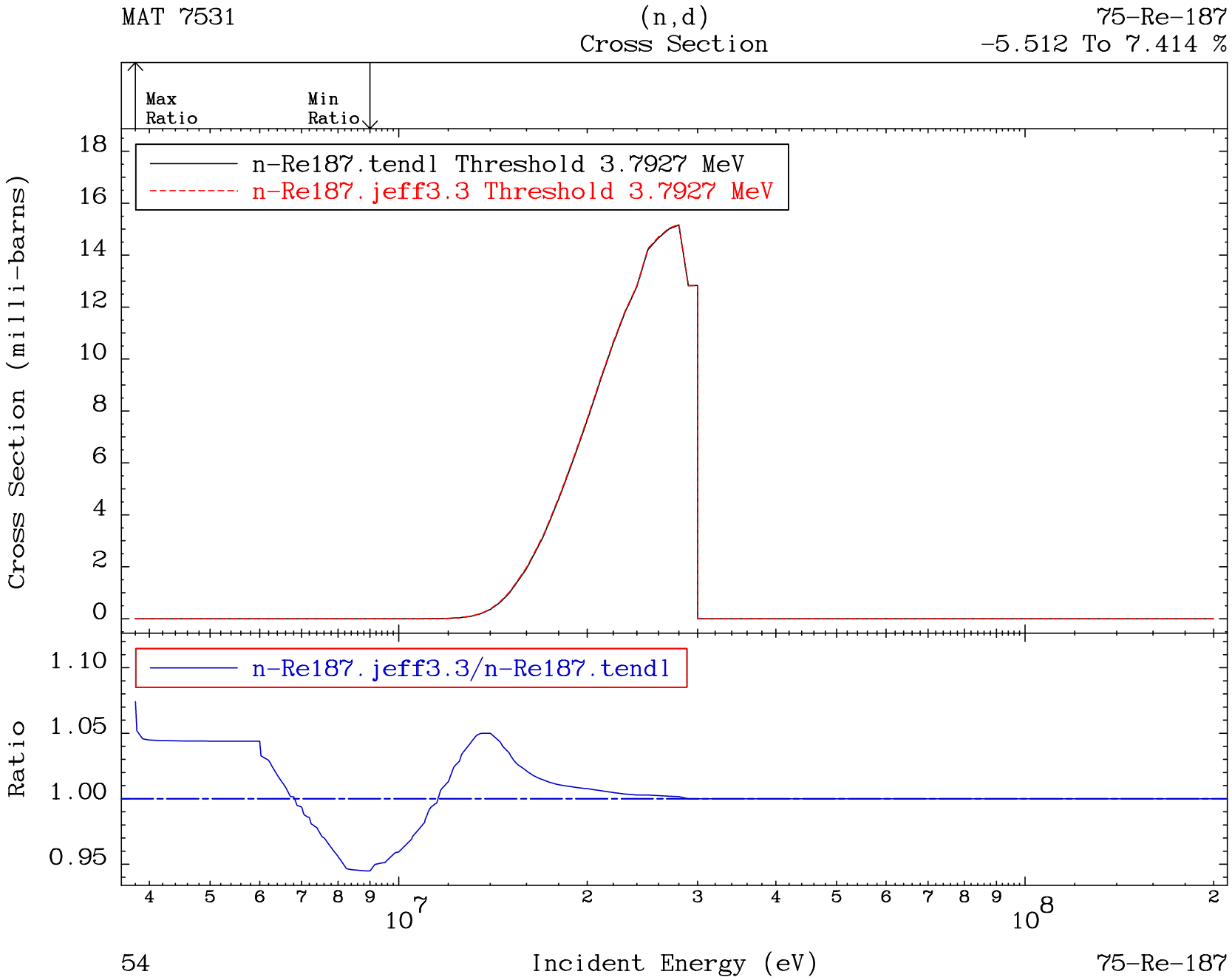

MAT 7531
MT= 79 (n,n') Level
Cross Section
75-Re-187
-2.390 To 2.414 %
Max
Ratio
n-Re187.tendl Threshold 965.35 keV
n-Re187.jeff3.3 Threshold 965.35 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.02
1.00
0.98
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
49
Incident Energy (eV)
75-Re-187

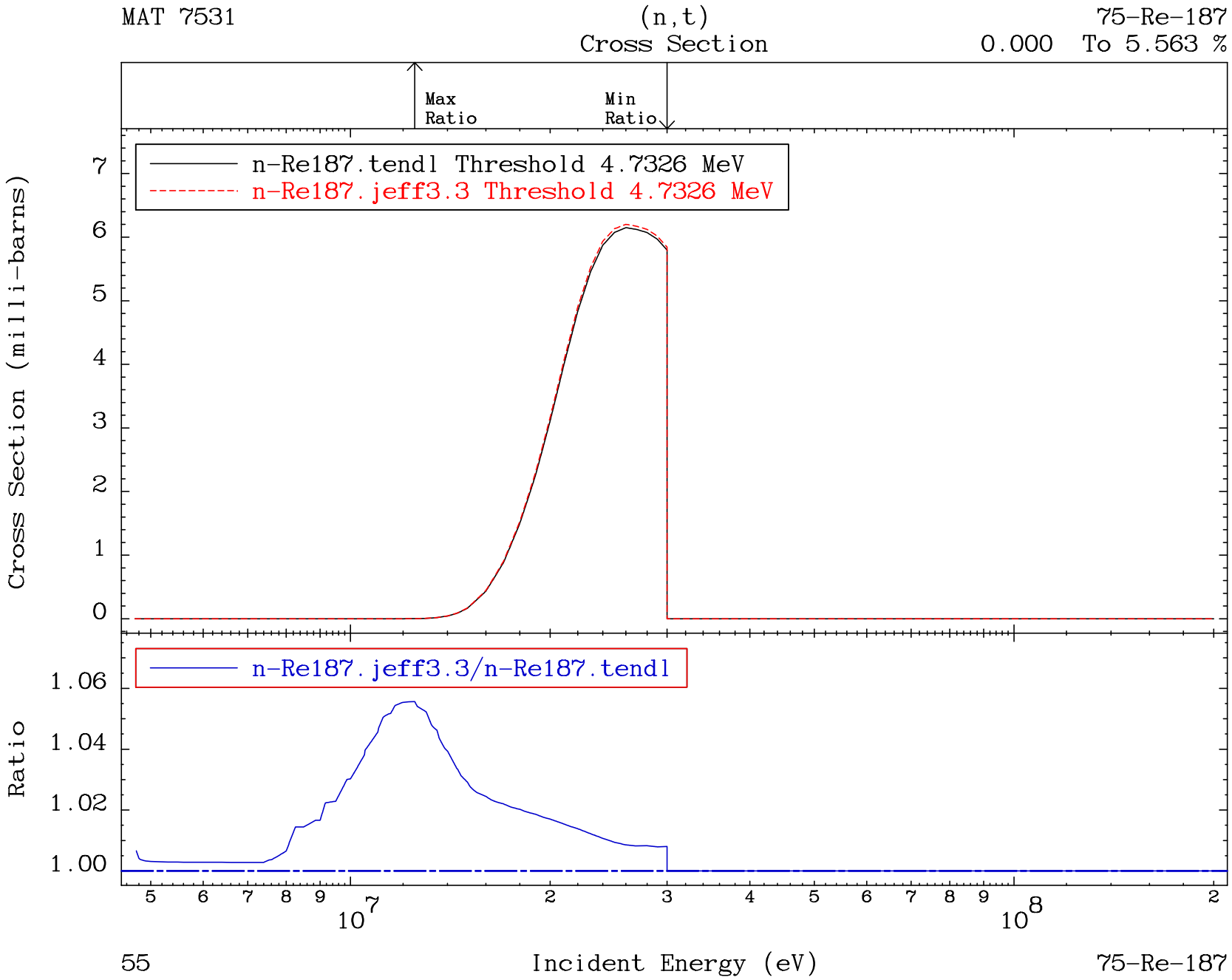

MAT 7531
MT= 80 (n,n') Level
Cross Section
75-Re-187
-2.362 To 3.597 %
Max
Ratio
n-Re187.tendl Threshold 974.53 keV
n-Re187.jeff3.3 Threshold 974.53 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.02
1.00
0.98
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
50
Incident Energy (eV)
75-Re-187

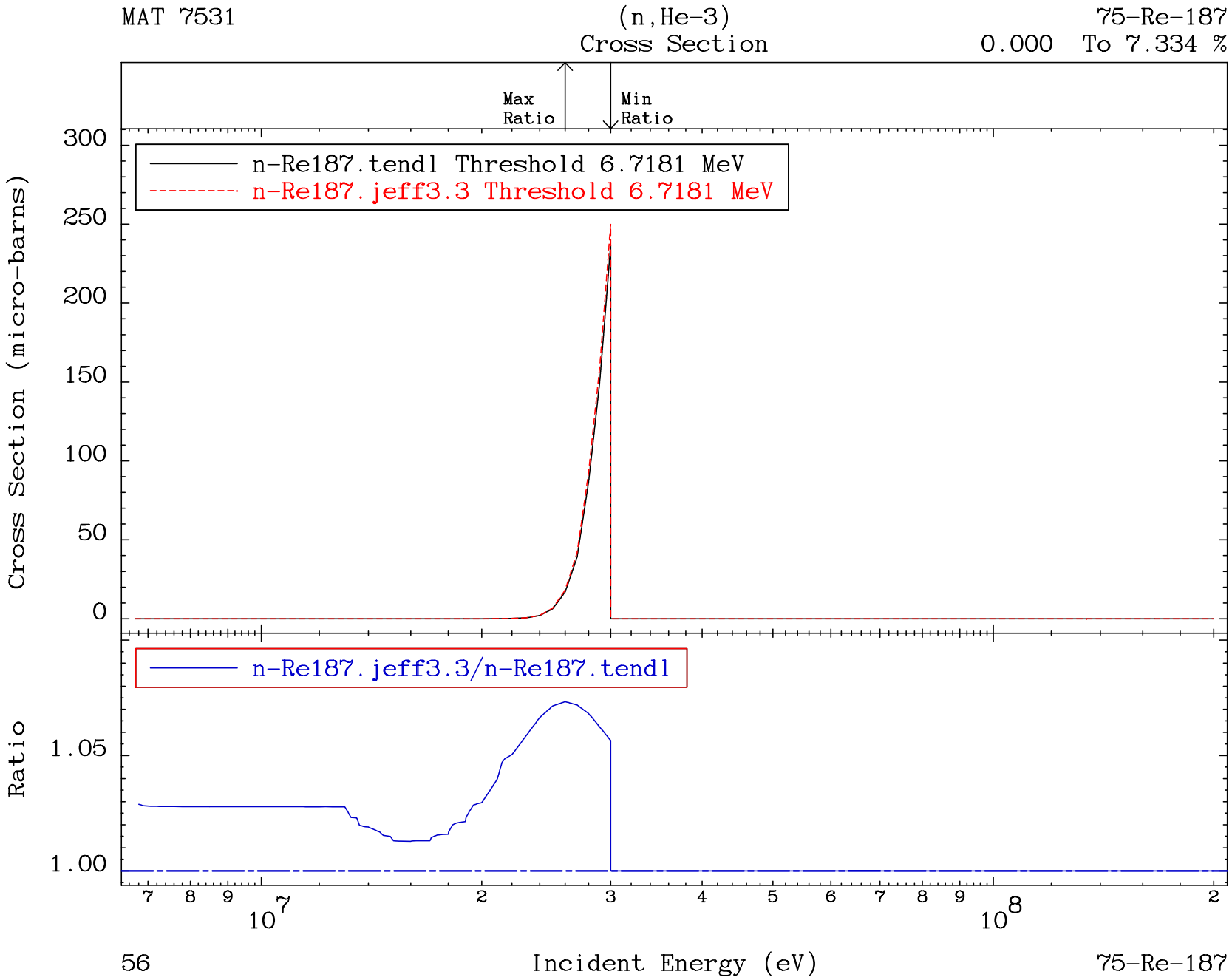

MAT 7531
(n,n') Continuum
Cross Section
75-Re-187
-4.892 To 2.129 %
Max
Ratio
Min
Ratio
n-Re187.tendl Threshold 974.53 keV
n-Re187.jeff3.3 Threshold 974.53 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.04
1.00
0.96
10^6
10^7
10^8
51
Incident Energy (eV)
75-Re-187

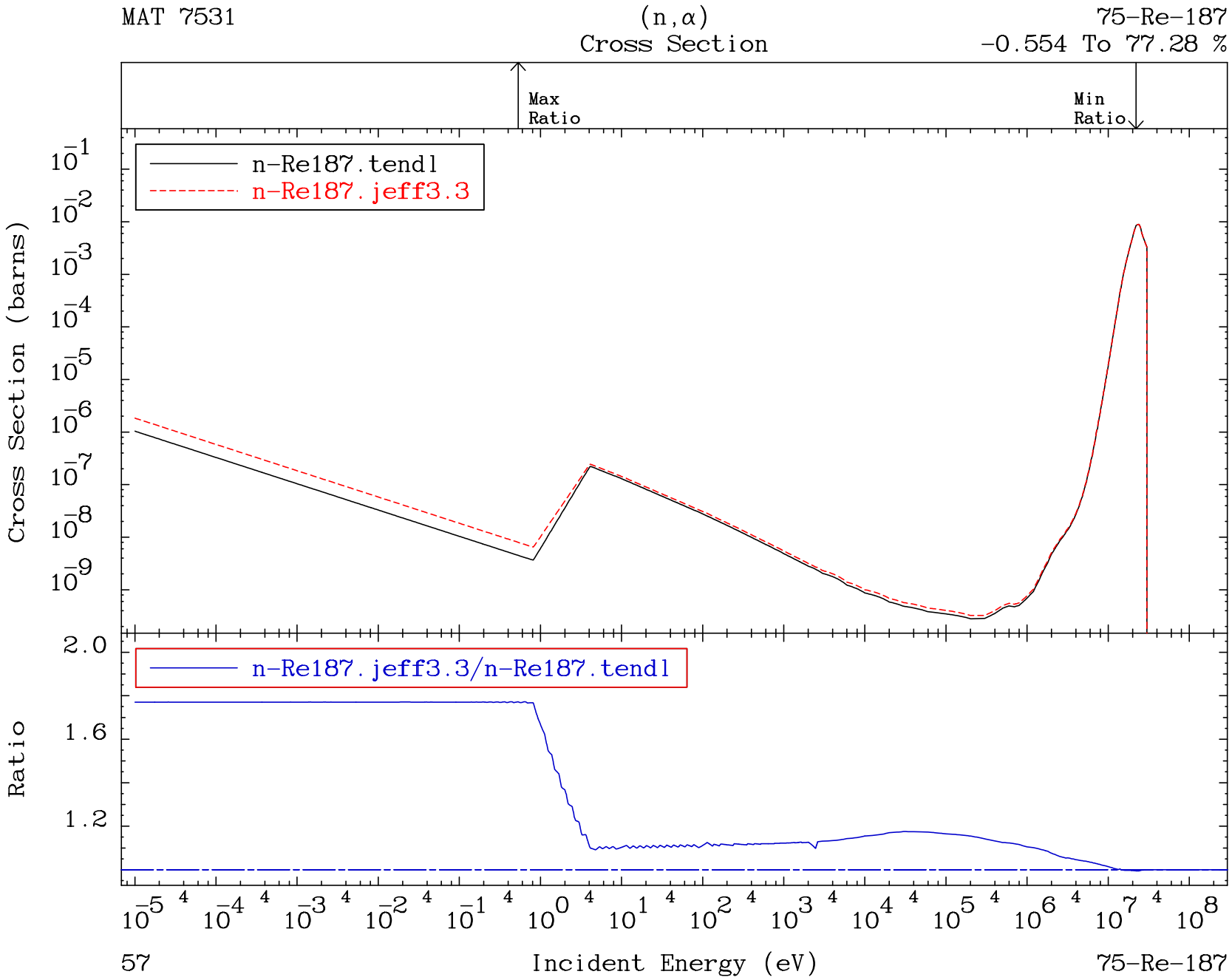

MAT 7531
(n,γ)
Cross Section
75-Re-187
-99.18 To 528.4 %
Max Ratio
Min Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
52
75-Re-187

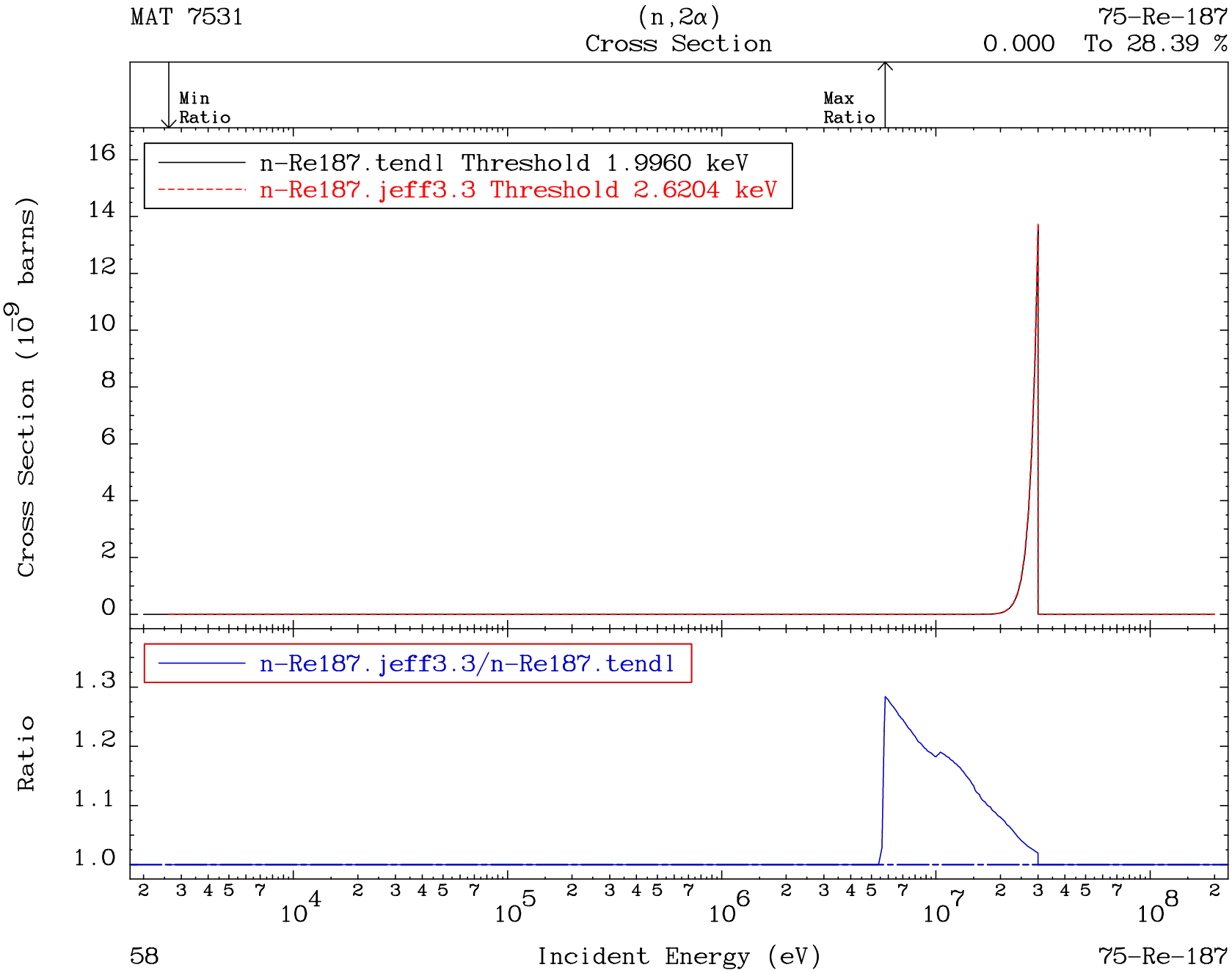

MAT 7531
(n,p)
Cross Section
75-Re-187
-5.284 To 14.52 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 533.02 keV
n-Re187.jeff3.3 Threshold 532.77 keV
Cross Section (milli-barns)
20
15
10
5
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.2
1.1
1.0
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
53
Incident Energy (eV)
75-Re-187

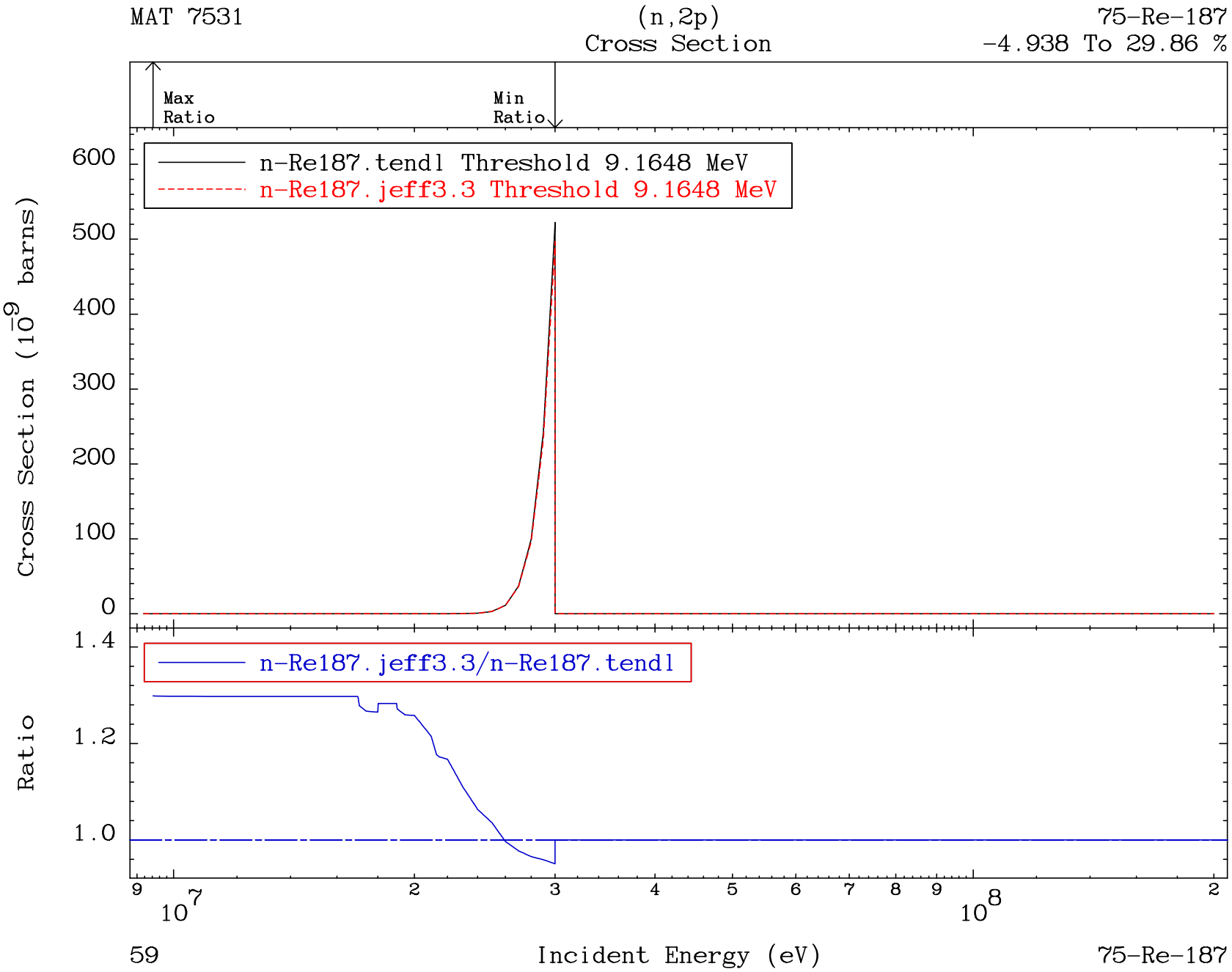

MAT 7531
(n,d)
Cross Section
75-Re-187
-5.512 To 7.414 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 3.7927 MeV
n-Re187.jeff3.3 Threshold 3.7927 MeV
Cross Section (milli-barns)
18
16
14
12
10
8
6
4
2
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
0.95
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
75-Re-187

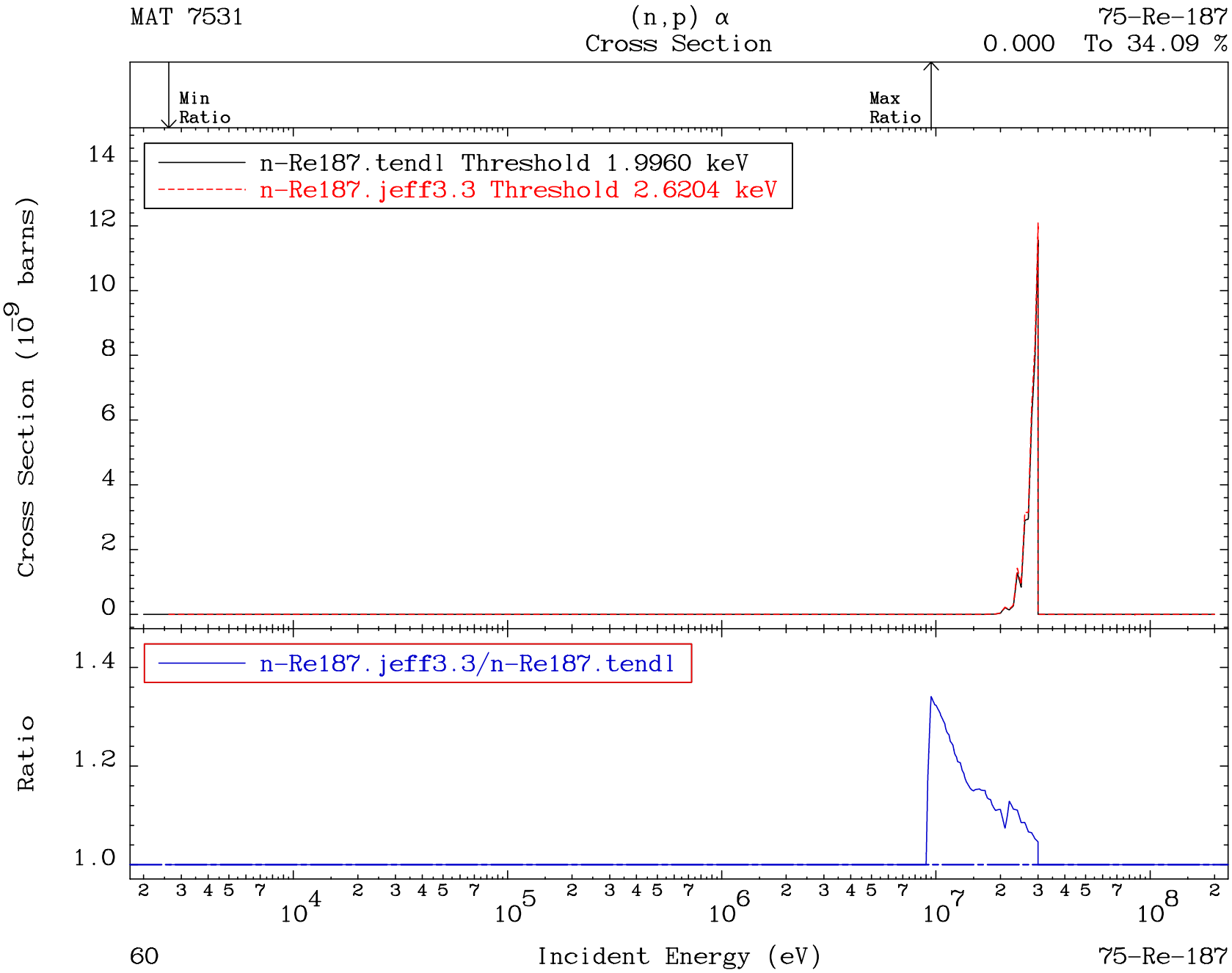

MAT 7531
(n,t)
Cross Section
75-Re-187
0.000 To 5.563 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 4.7326 MeV
n-Re187.jeff3.3 Threshold 4.7326 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.00
1.02
1.04
1.06
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
55
Incident Energy (eV)
75-Re-187

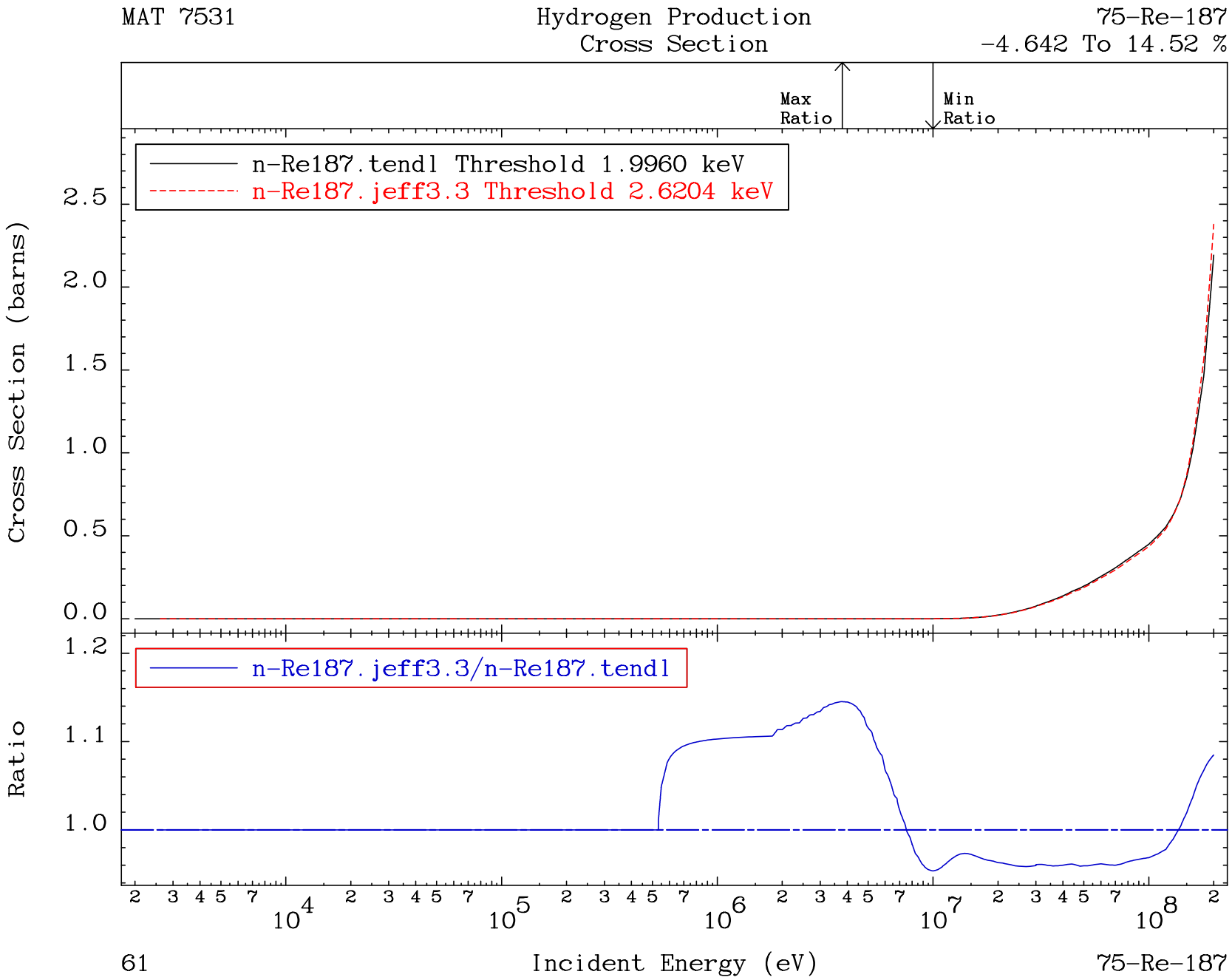

MAT 7531
(n,He-3)
Cross Section
75-Re-187
0.000 To 7.334 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 6.7181 MeV
n-Re187.jeff3.3 Threshold 6.7181 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.05
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
56
Incident Energy (eV)
75-Re-187

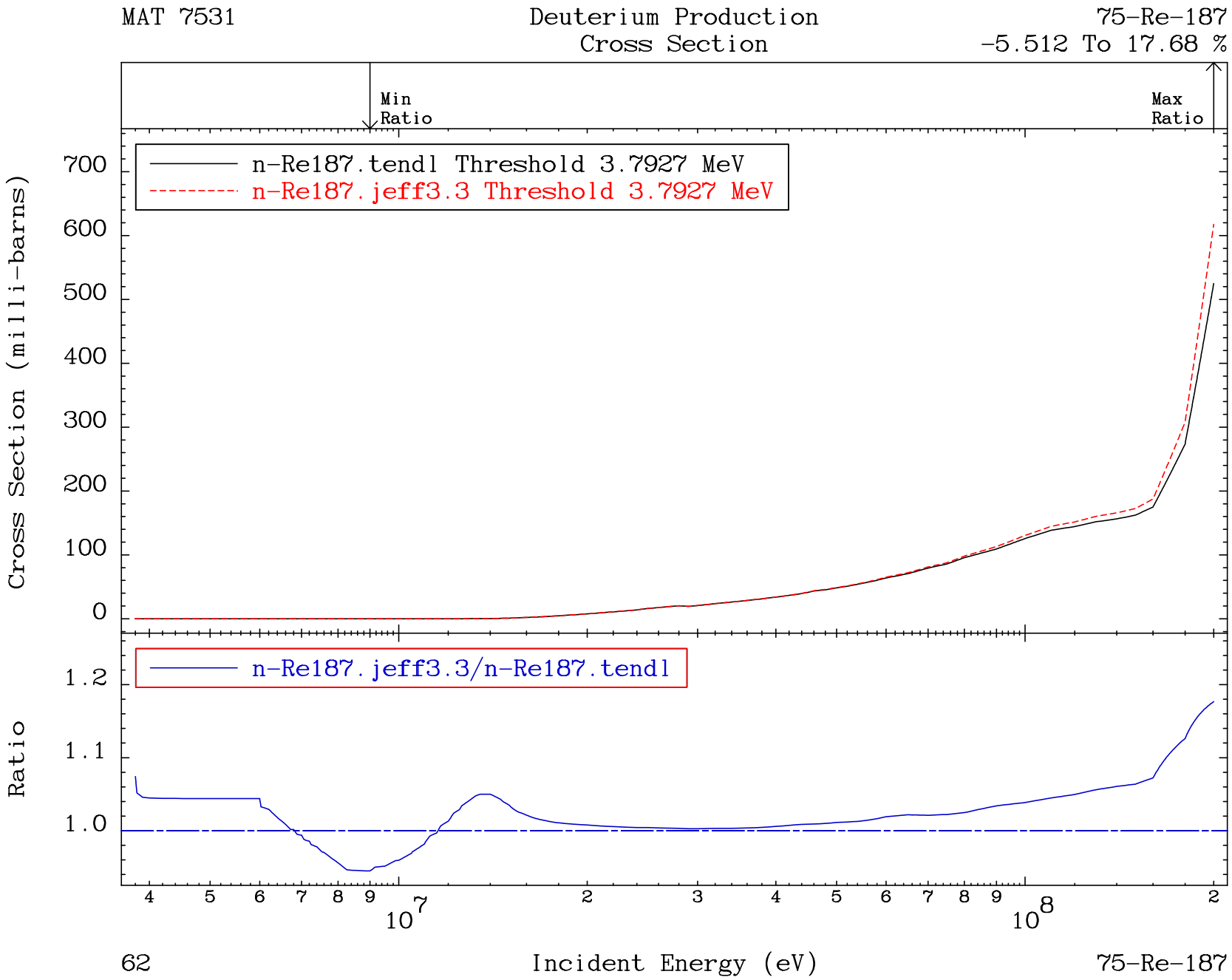

MAT 7531
(n,α)
Cross Section
75-Re-187
-0.554 To 77.28 %
Max Ratio
Min Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
57
75-Re-187

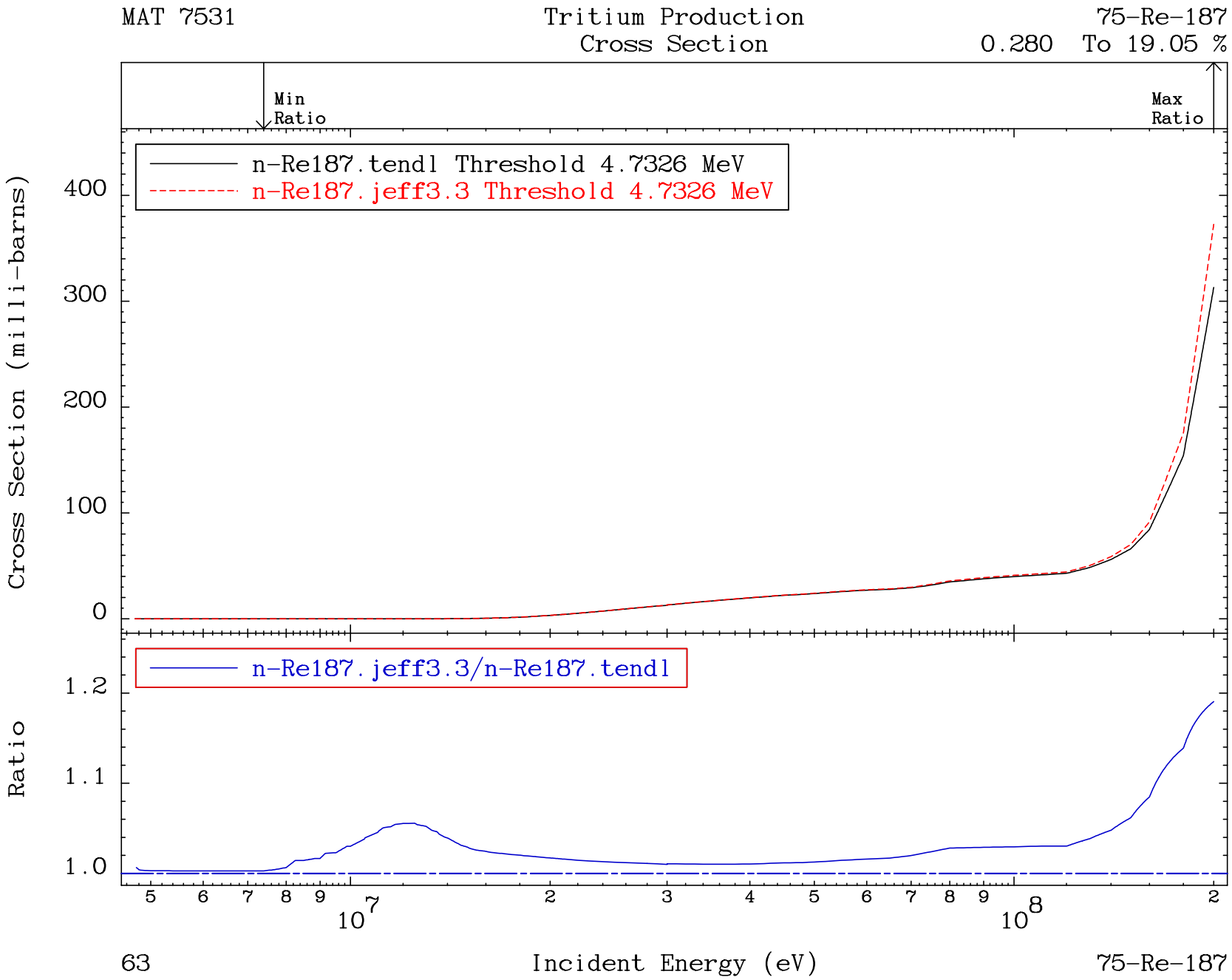

MAT 7531
(n,2α)
Cross Section
75-Re-187
0.000 To 28.39 %
Min Ratio
Max Ratio
n-Re187.tendl Threshold 1.9960 keV
n-Re187.jeff3.3 Threshold 2.6204 keV
Cross Section (10^-9 barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
58
75-Re-187

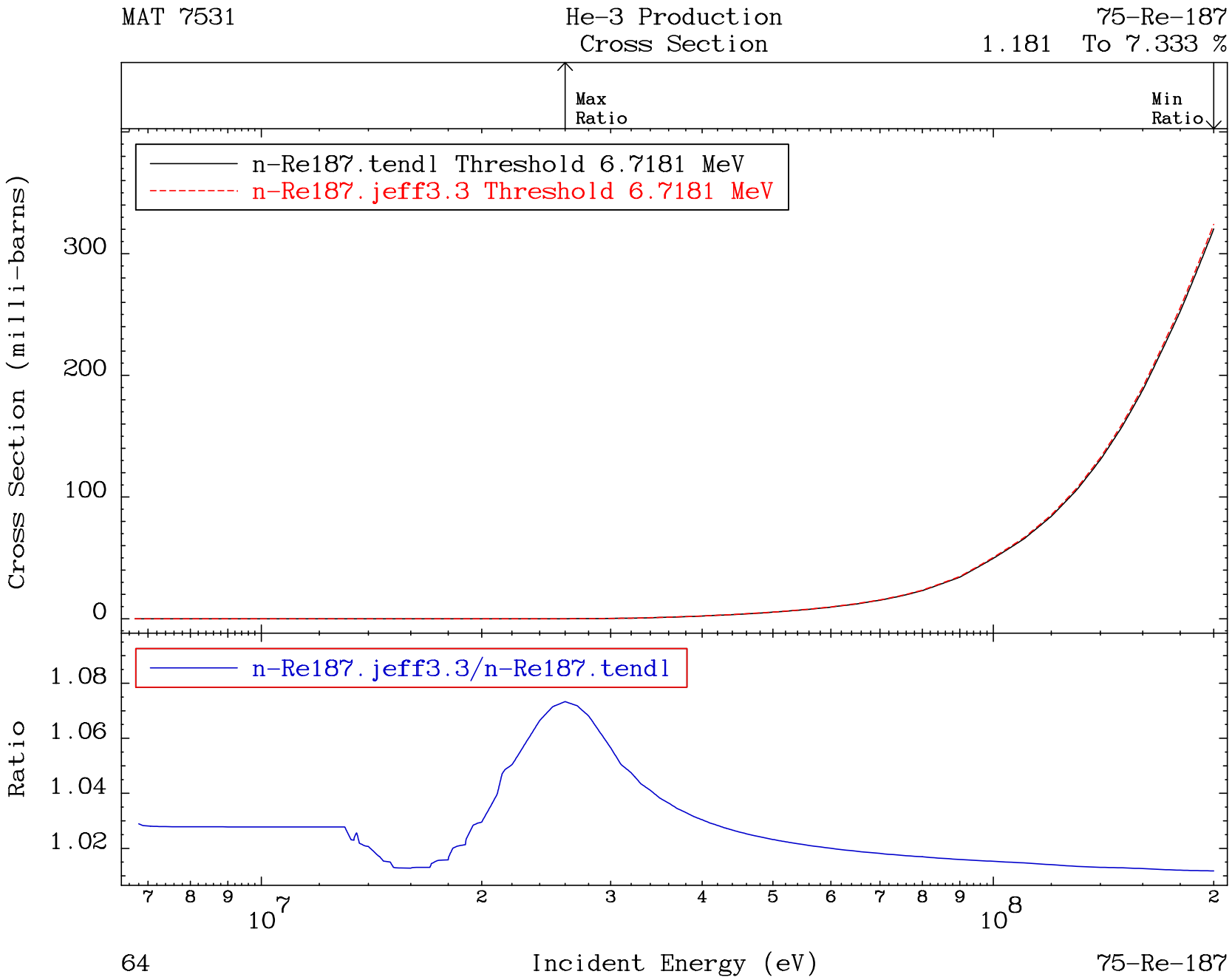

MAT 7531
(n,2p)
Cross Section
75-Re-187
-4.938 To 29.86 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 9.1648 MeV
n-Re187.jeff3.3 Threshold 9.1648 MeV
Cross Section (10^{-9} barns)
600
500
400
300
200
100
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.4
1.2
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
75-Re-187

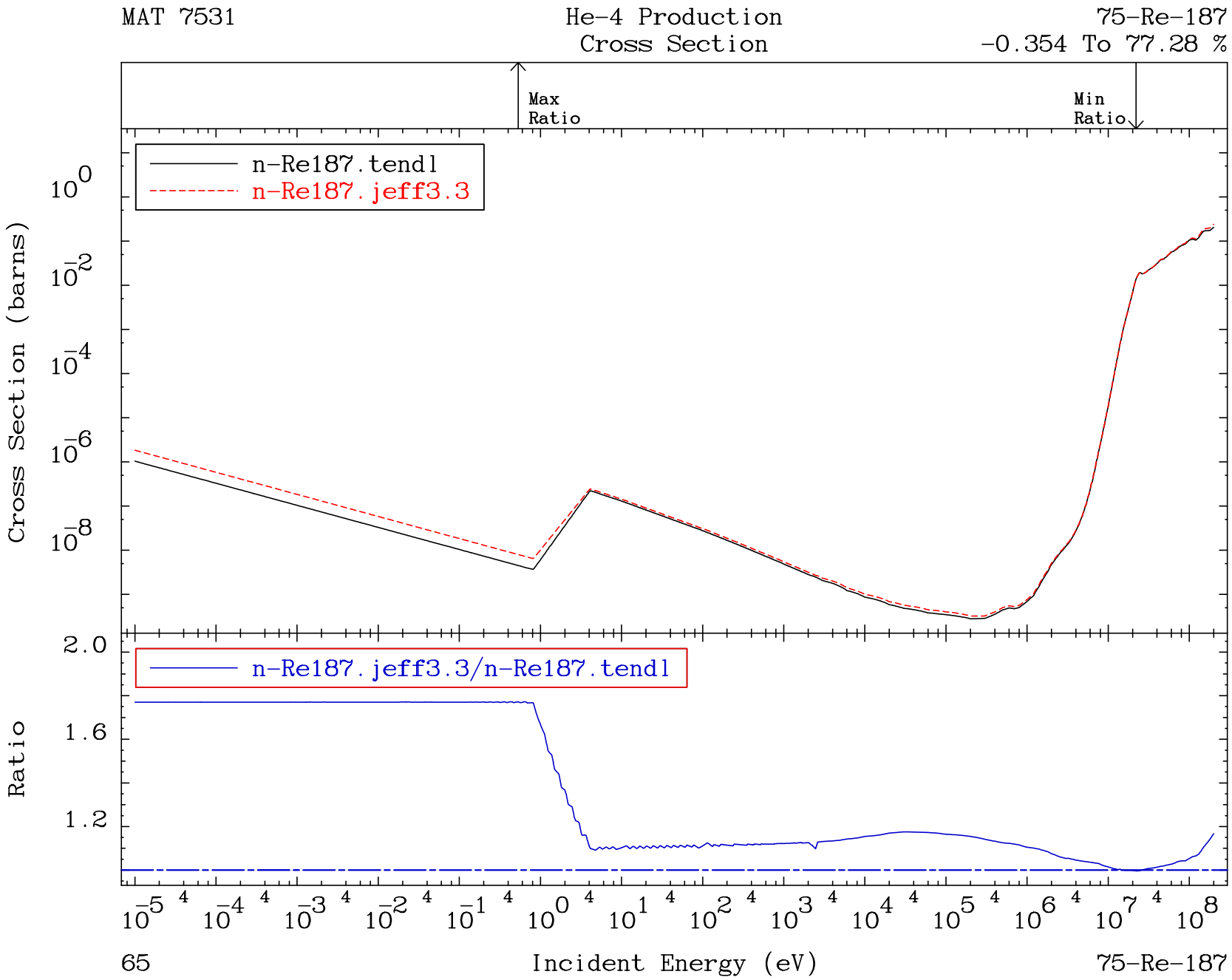

MAT 7531
(n,p) α
Cross Section
75-Re-187
0.000 To 34.09 %
Min Ratio
Max Ratio
n-Re187.tendl Threshold 1.9960 keV
n-Re187.jeff3.3 Threshold 2.6204 keV
Cross Section (10^{-9} barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
60
75-Re-187

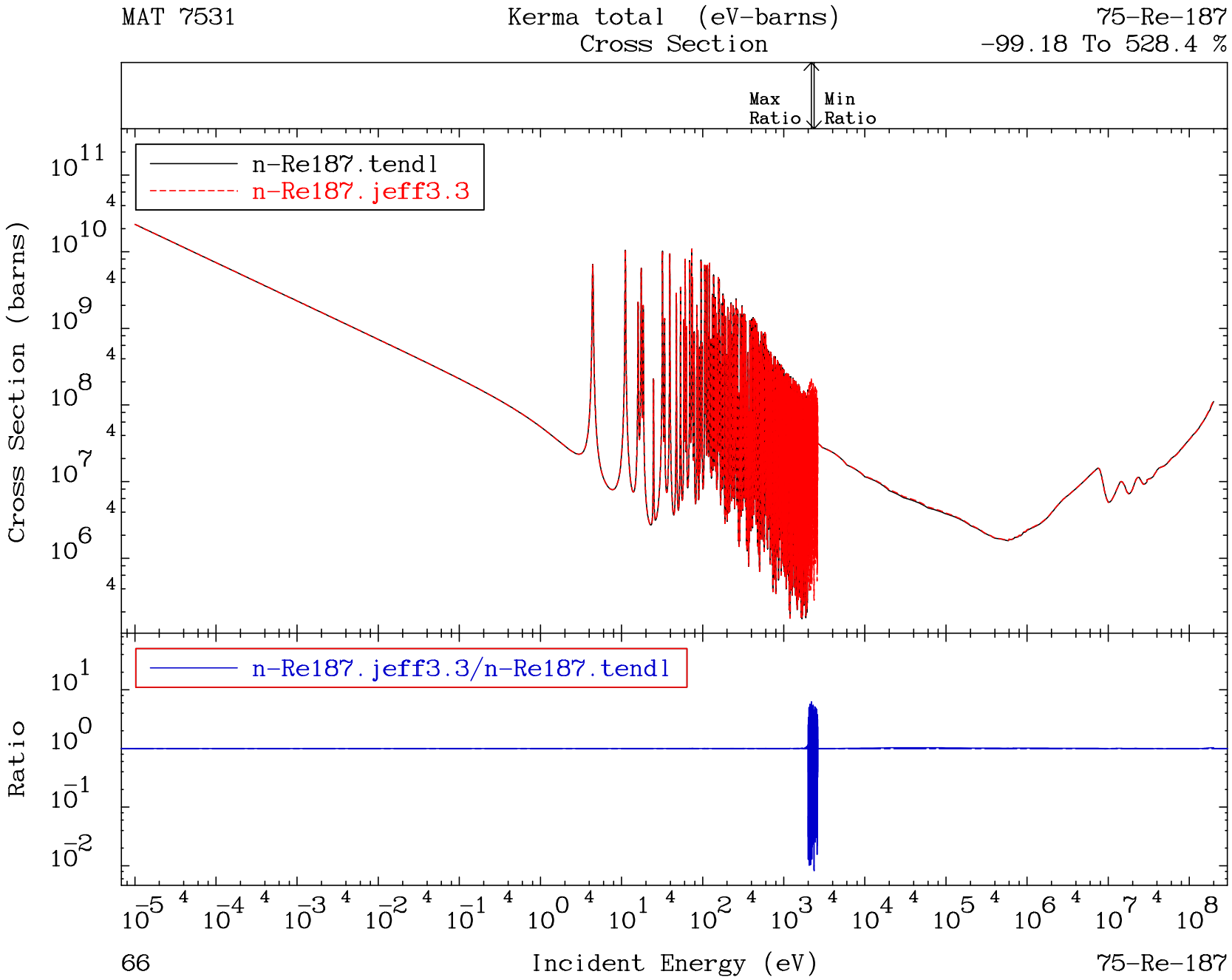

MAT 7531
Hydrogen Production
Cross Section
75-Re-187
-4.642 To 14.52 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 1.9960 keV
n-Re187.jeff3.3 Threshold 2.6204 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.2
1.1
1.0
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
61
Incident Energy (eV)
75-Re-187

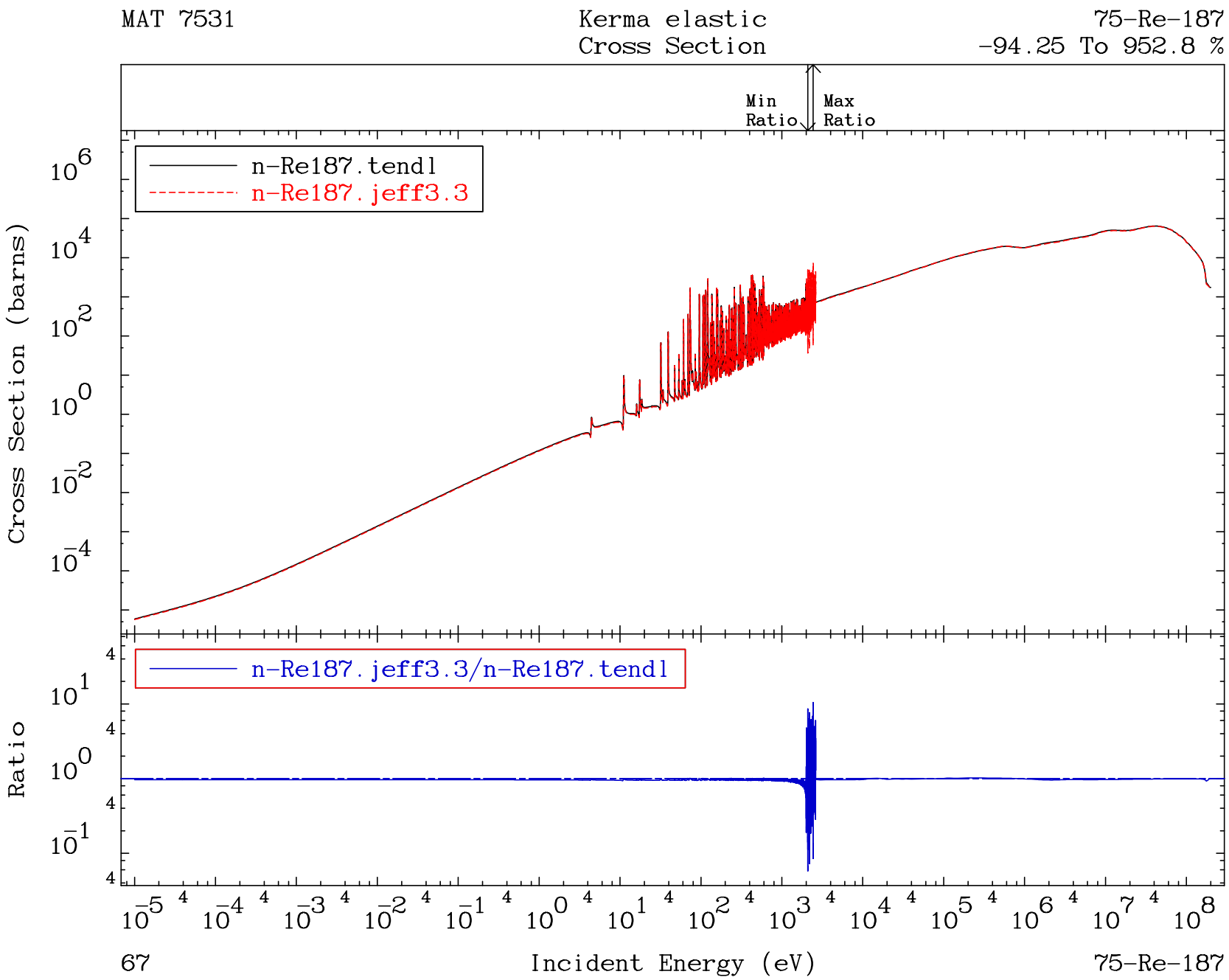

MAT 7531
Deuterium Production
Cross Section
75-Re-187
-5.512 To 17.68 %
Min Ratio
Max Ratio
n-Re187.tendl Threshold 3.7927 MeV
n-Re187.jeff3.3 Threshold 3.7927 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.2
1.1
1.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
62
Incident Energy (eV)
75-Re-187

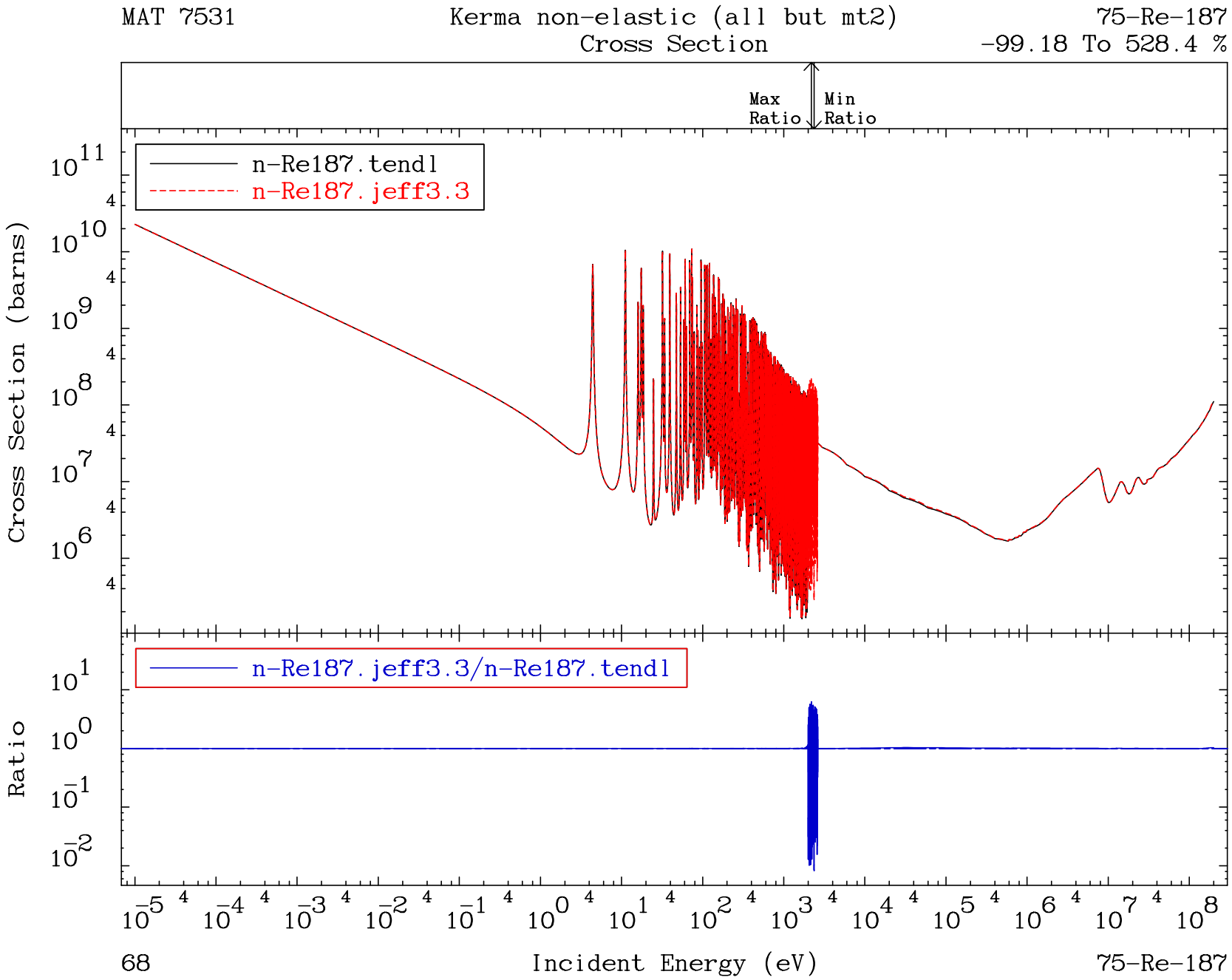

MAT 7531
Tritium Production
Cross Section
75-Re-187
0.280 To 19.05 %
Min Ratio
Max Ratio
n-Re187.tendl Threshold 4.7326 MeV
n-Re187.jeff3.3 Threshold 4.7326 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.2
1.1
1.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
63
Incident Energy (eV)
75-Re-187

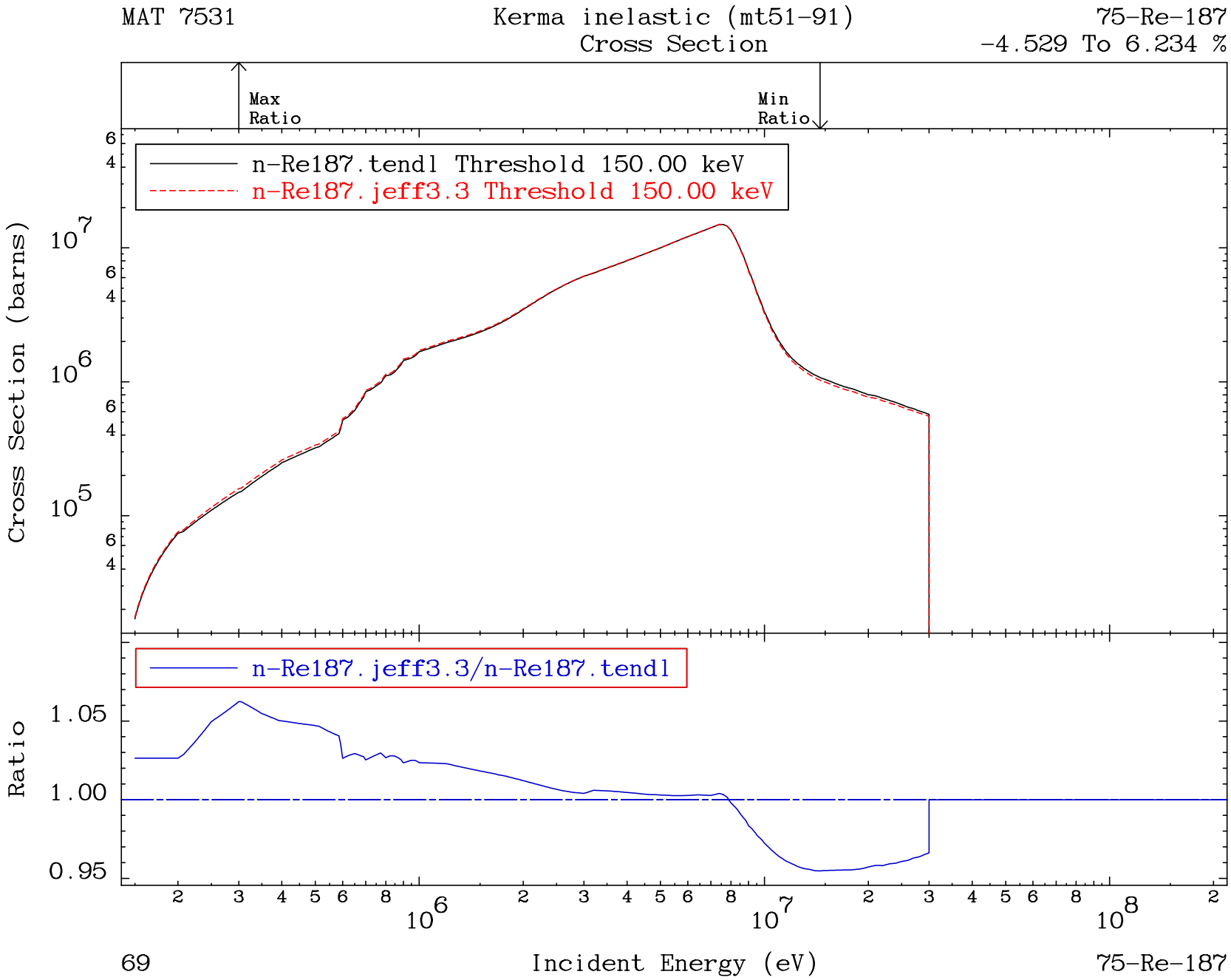

MAT 7531
He-3 Production
Cross Section
75-Re-187
1.181 To 7.333 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 6.7181 MeV
n-Re187.jeff3.3 Threshold 6.7181 MeV
Cross Section (milli-barns)
300
200
100
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.08
1.06
1.04
1.02
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
64
Incident Energy (eV)
75-Re-187

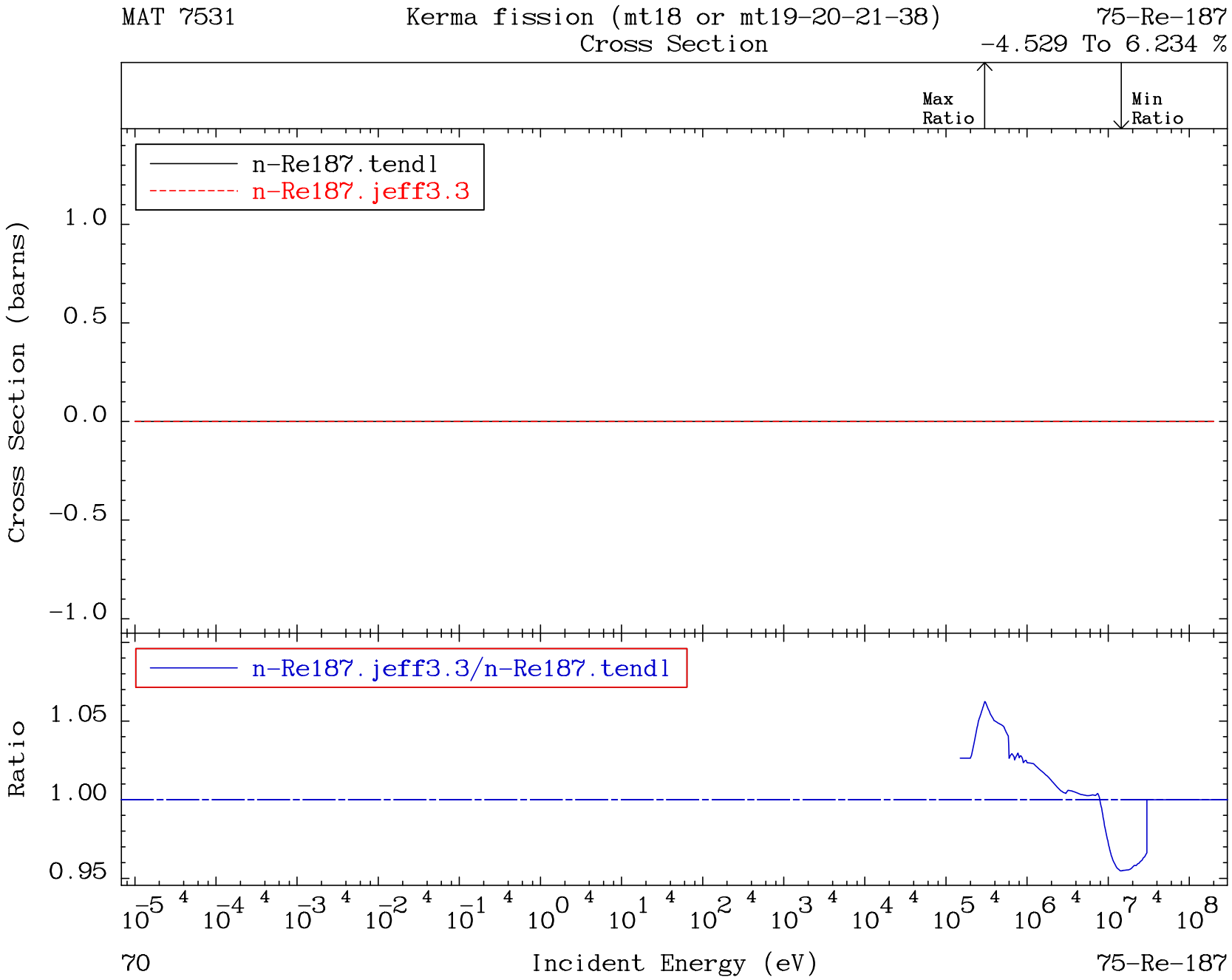

MAT 7531
He-4 Production
Cross Section
75-Re-187
-0.354 To 77.28 %
Max
Ratio
Min
Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
65
75-Re-187

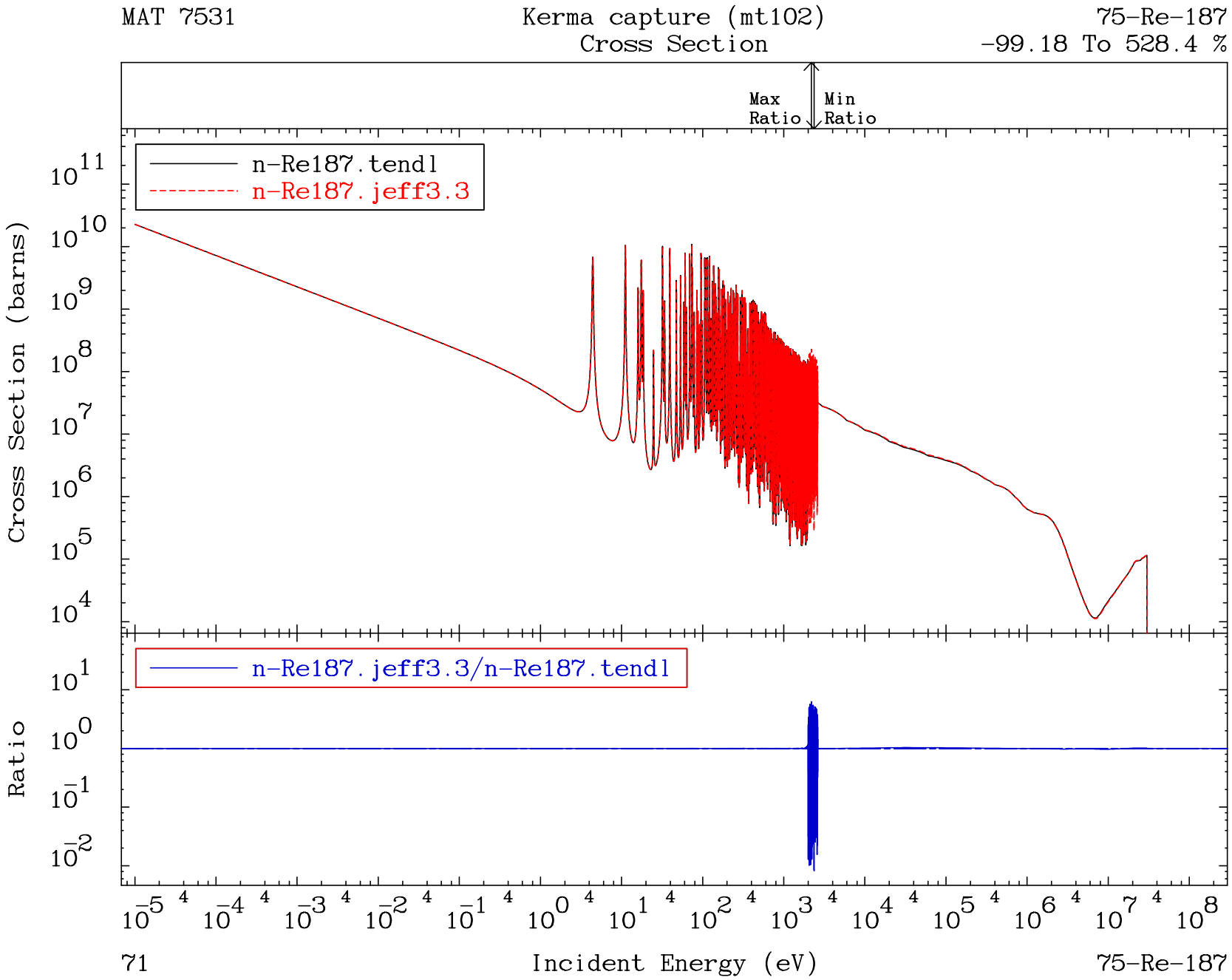

MAT 7531
Kerma total (eV-barns)
Cross Section
75-Re-187
-99.18 To 528.4 %
Max Ratio
Min Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
66
75-Re-187

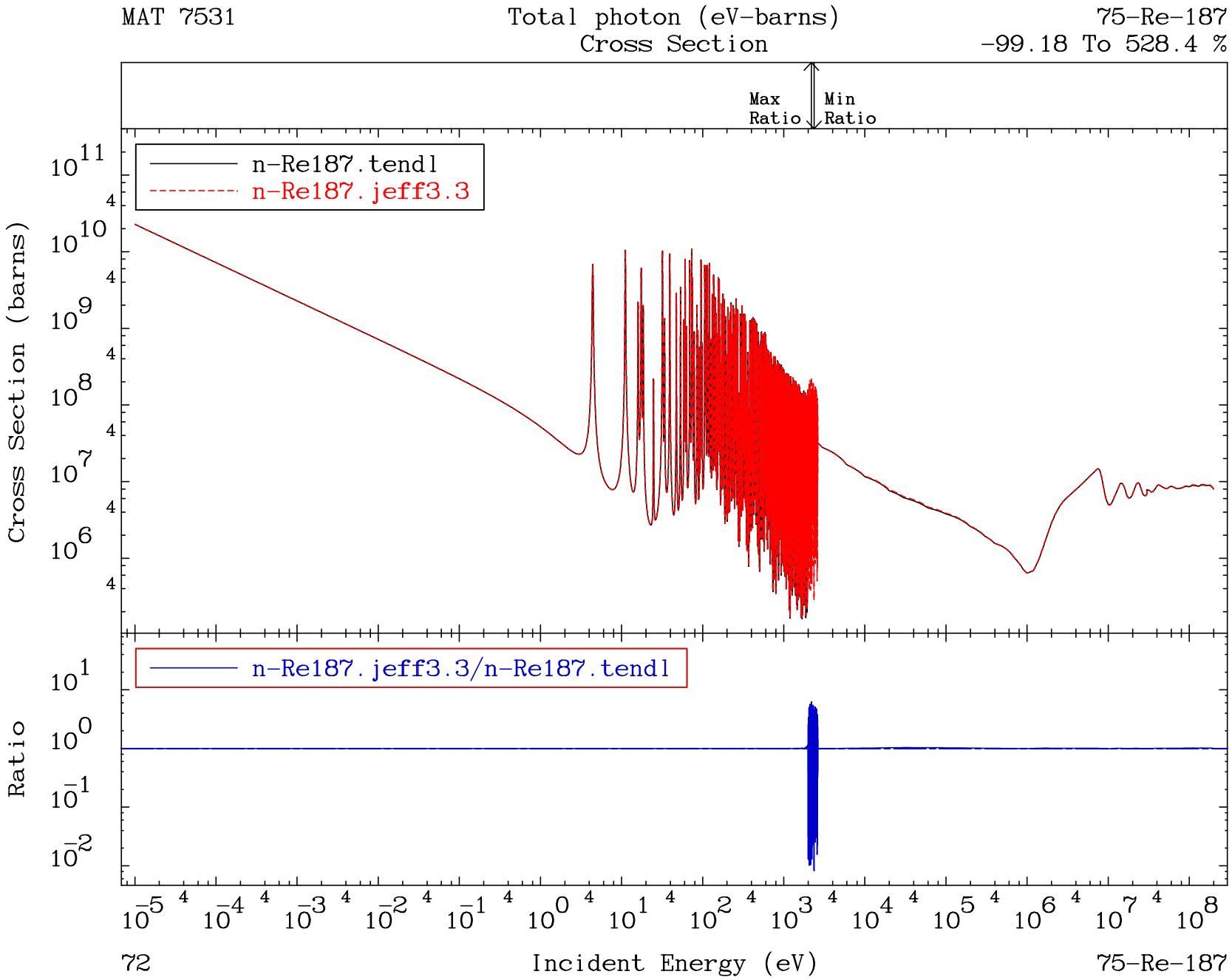

MAT 7531
Kerma elastic
Cross Section
75-Re-187
-94.25 To 952.8 %
Min Ratio
Max Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
67
75-Re-187

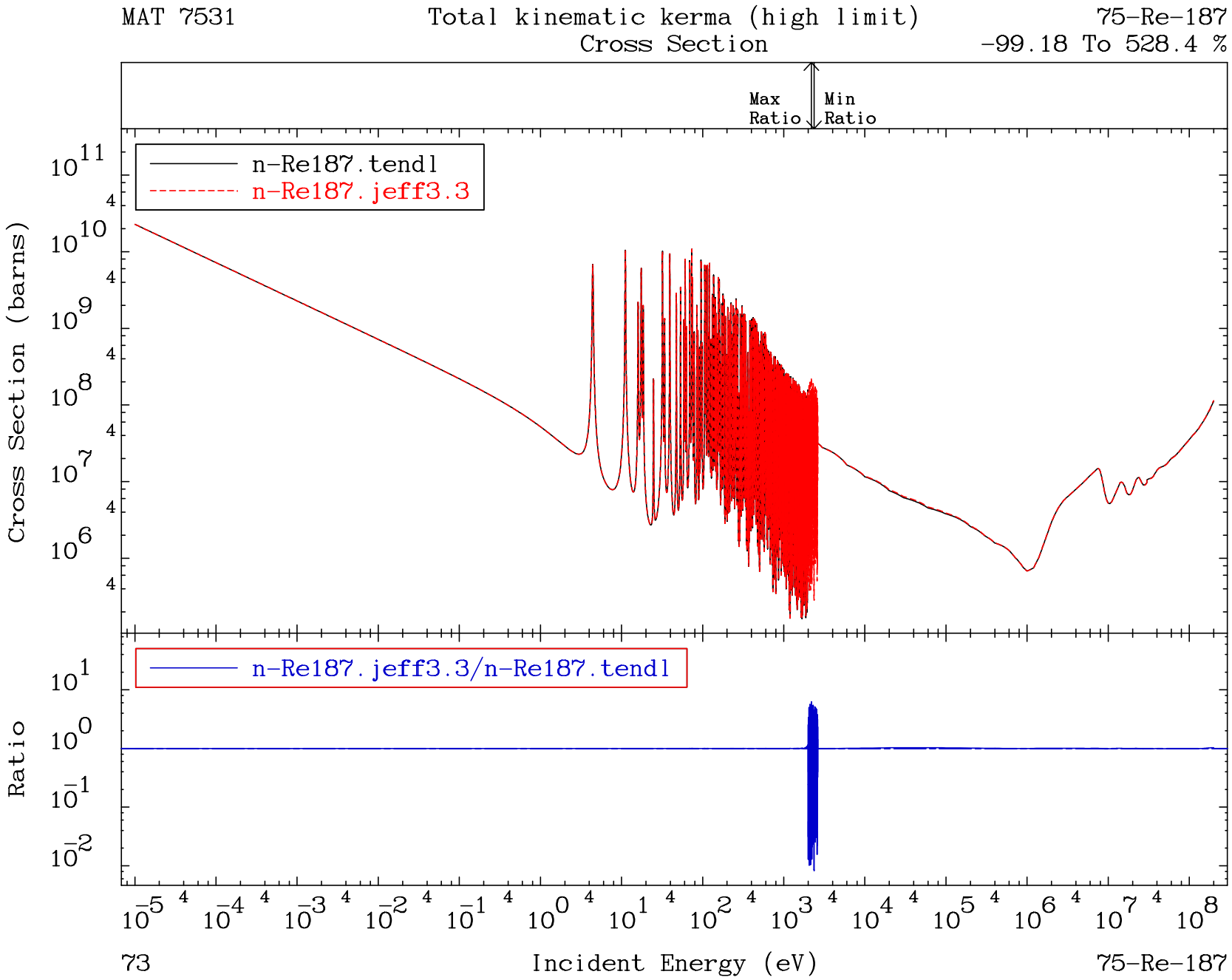

MAT 7531
Kerma non-elastic (all but mt2)
Cross Section
75-Re-187
-99.18 To 528.4 %
Max Ratio
Min Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
68
75-Re-187

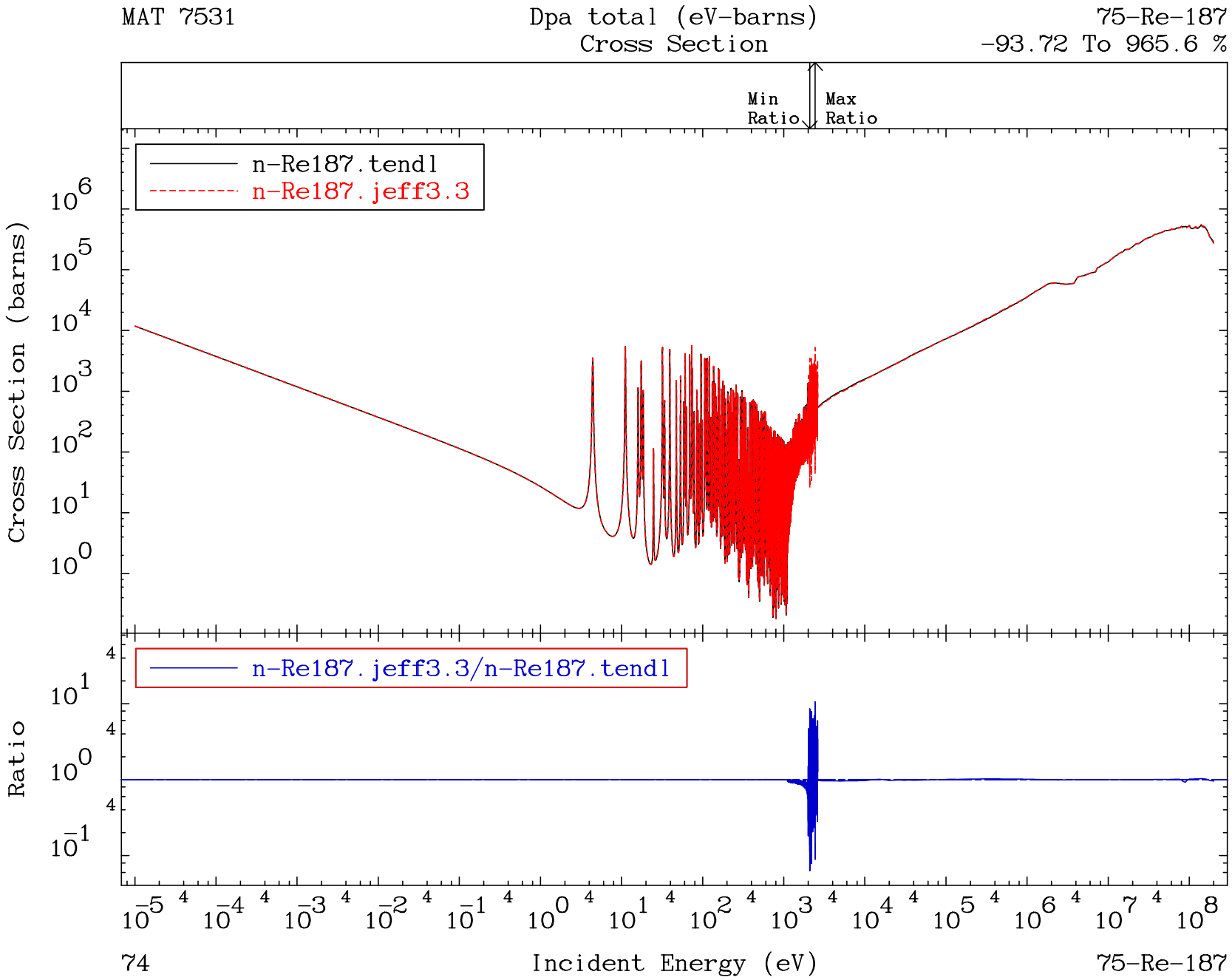

MAT 7531
Kerma inelastic (mt51-91)
Cross Section
75-Re-187
-4.529 To 6.234 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 150.00 keV
n-Re187.jeff3.3 Threshold 150.00 keV
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
69
75-Re-187

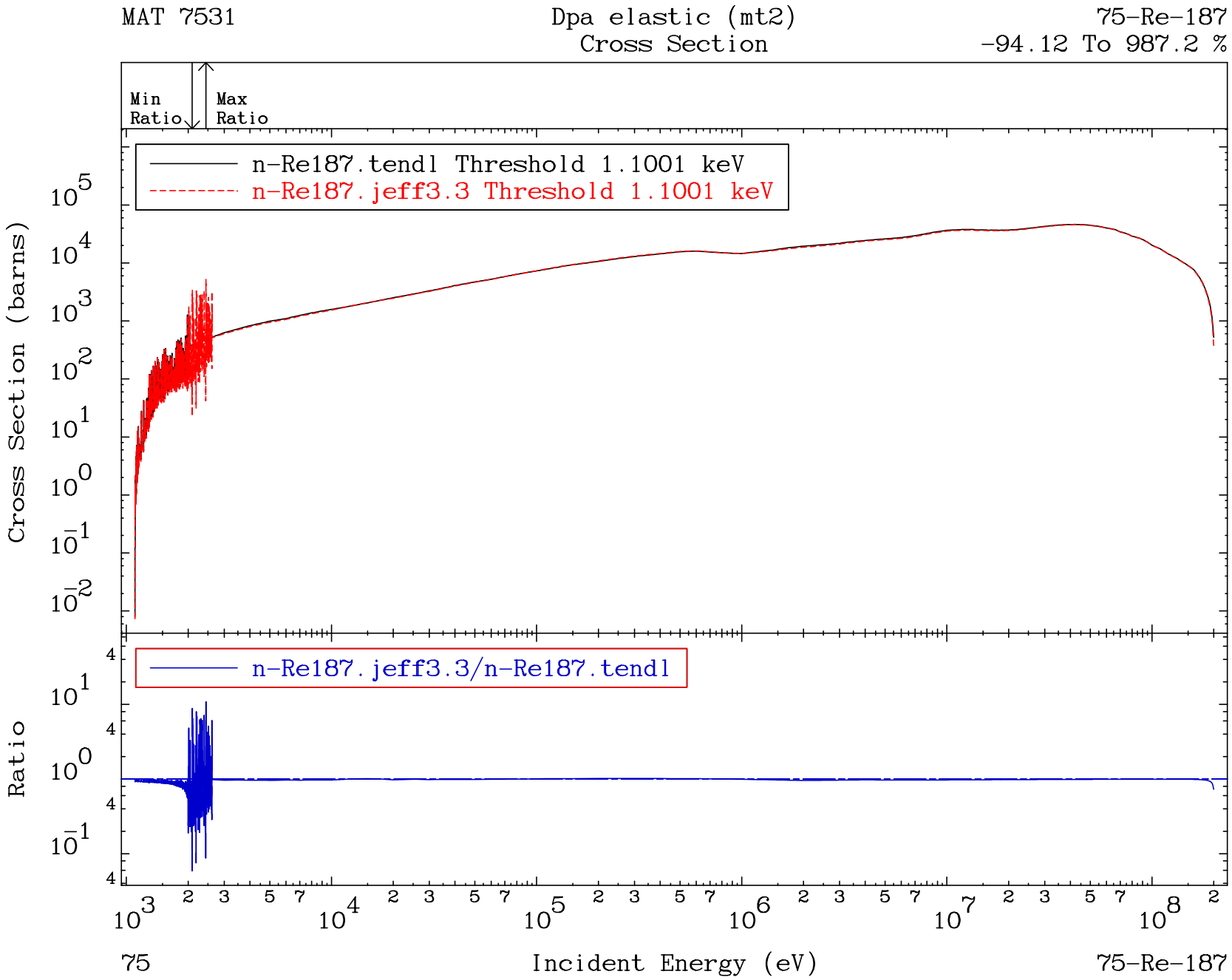

MAT 7531
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
75-Re-187
-4.529 To 6.234 %
Max Ratio
Min Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.05
1.00
0.95
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
70
Incident Energy (eV)
75-Re-187

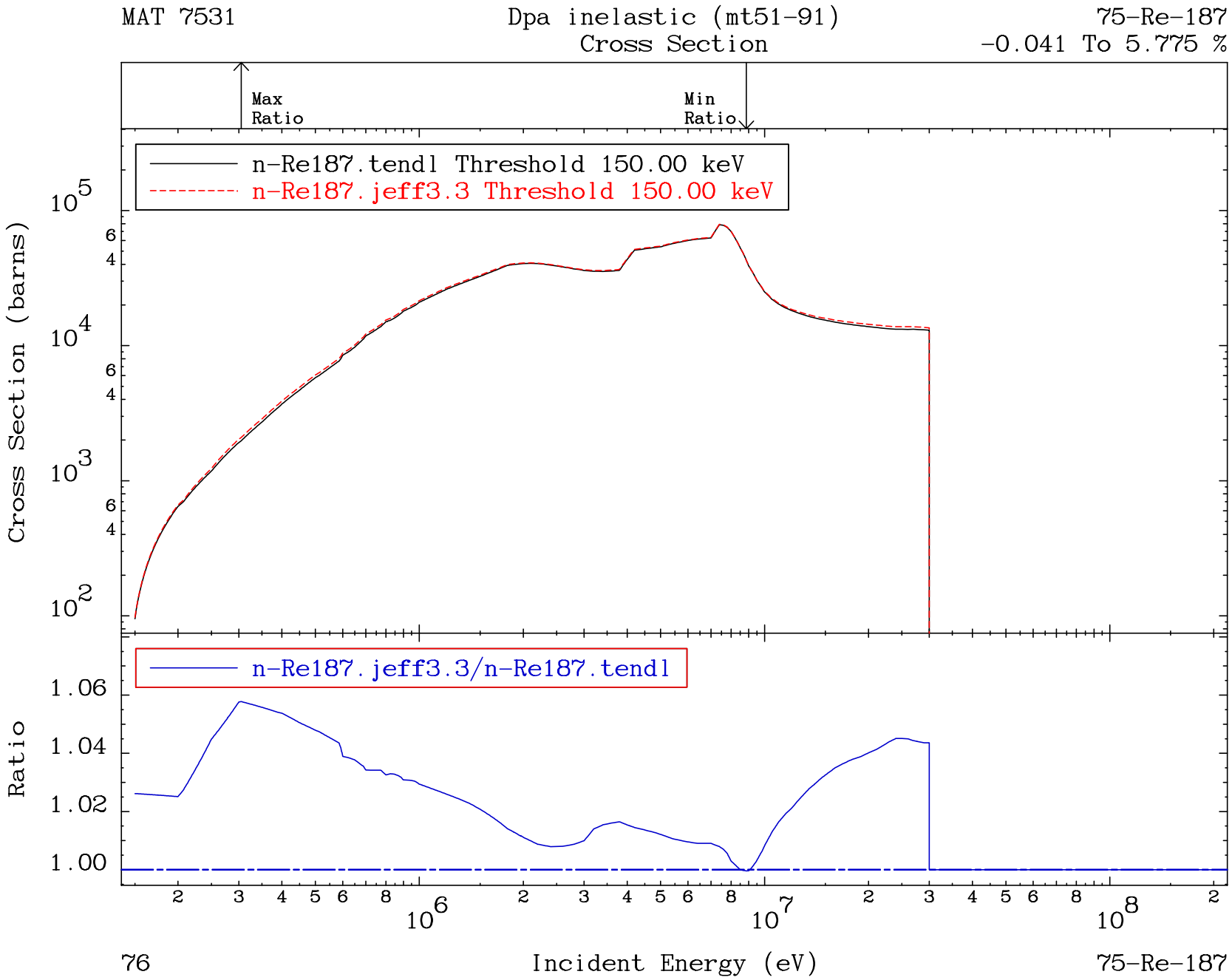

MAT 7531
Kerma capture (mt102)
Cross Section
75-Re-187
-99.18 To 528.4 %
Max Ratio
Min Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
71
75-Re-187

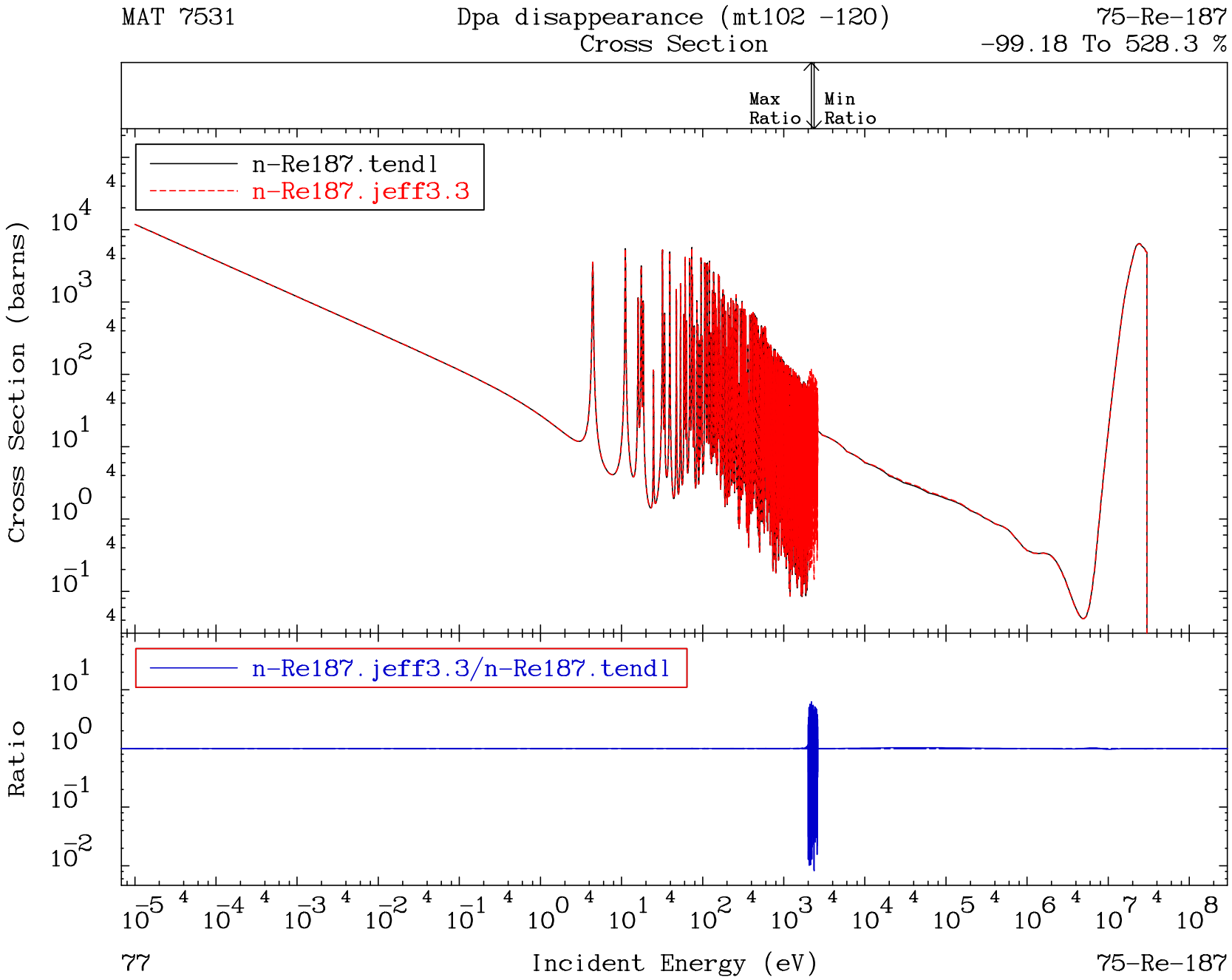

MAT 7531
Total photon (eV-barns)
Cross Section
75-Re-187
-99.18 To 528.4 %
Max Ratio
Min Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
72
75-Re-187

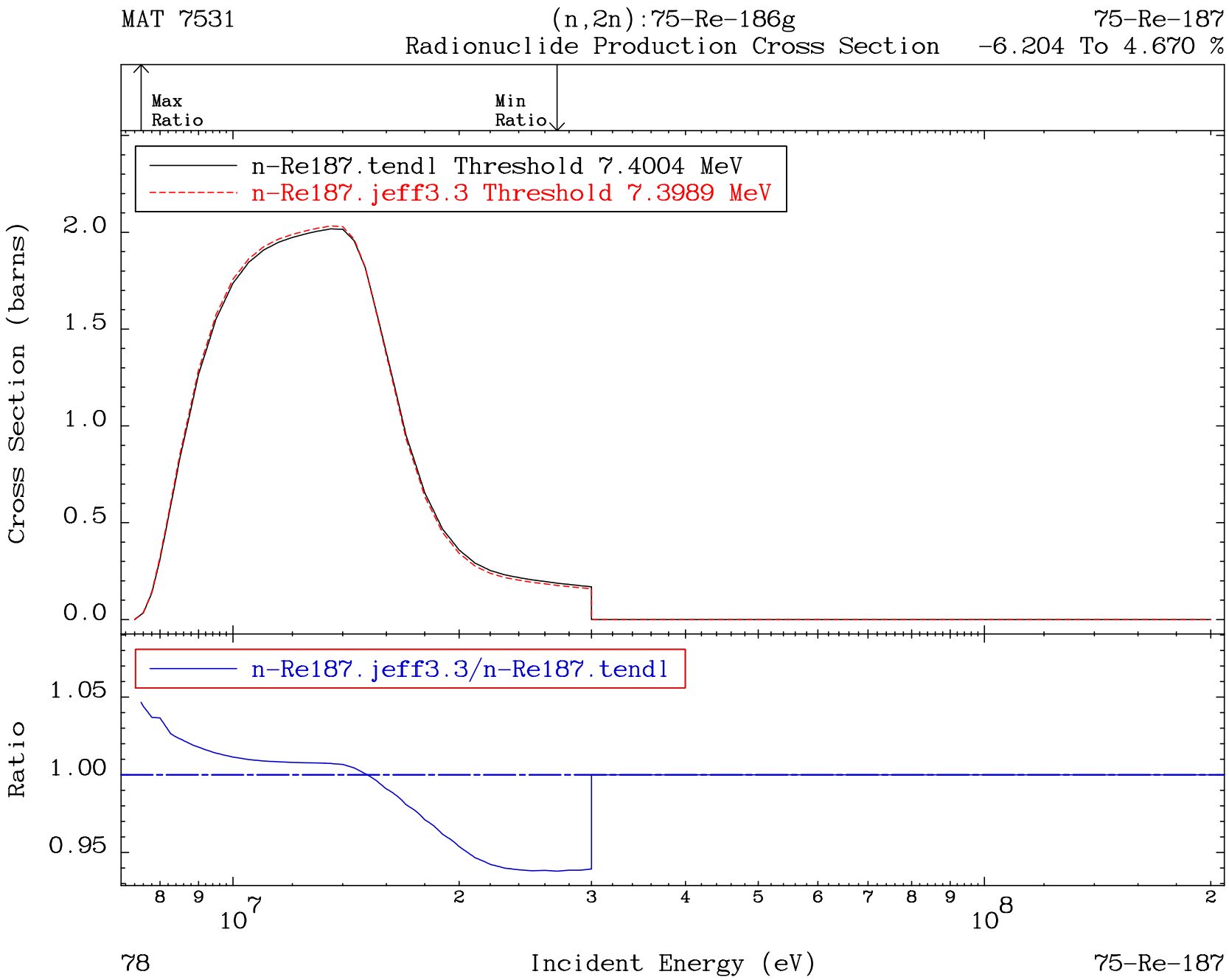

MAT 7531
Total kinematic kerma (high limit)
Cross Section
75-Re-187
-99.18 To 528.4 %
Max Ratio
Min Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
73
75-Re-187

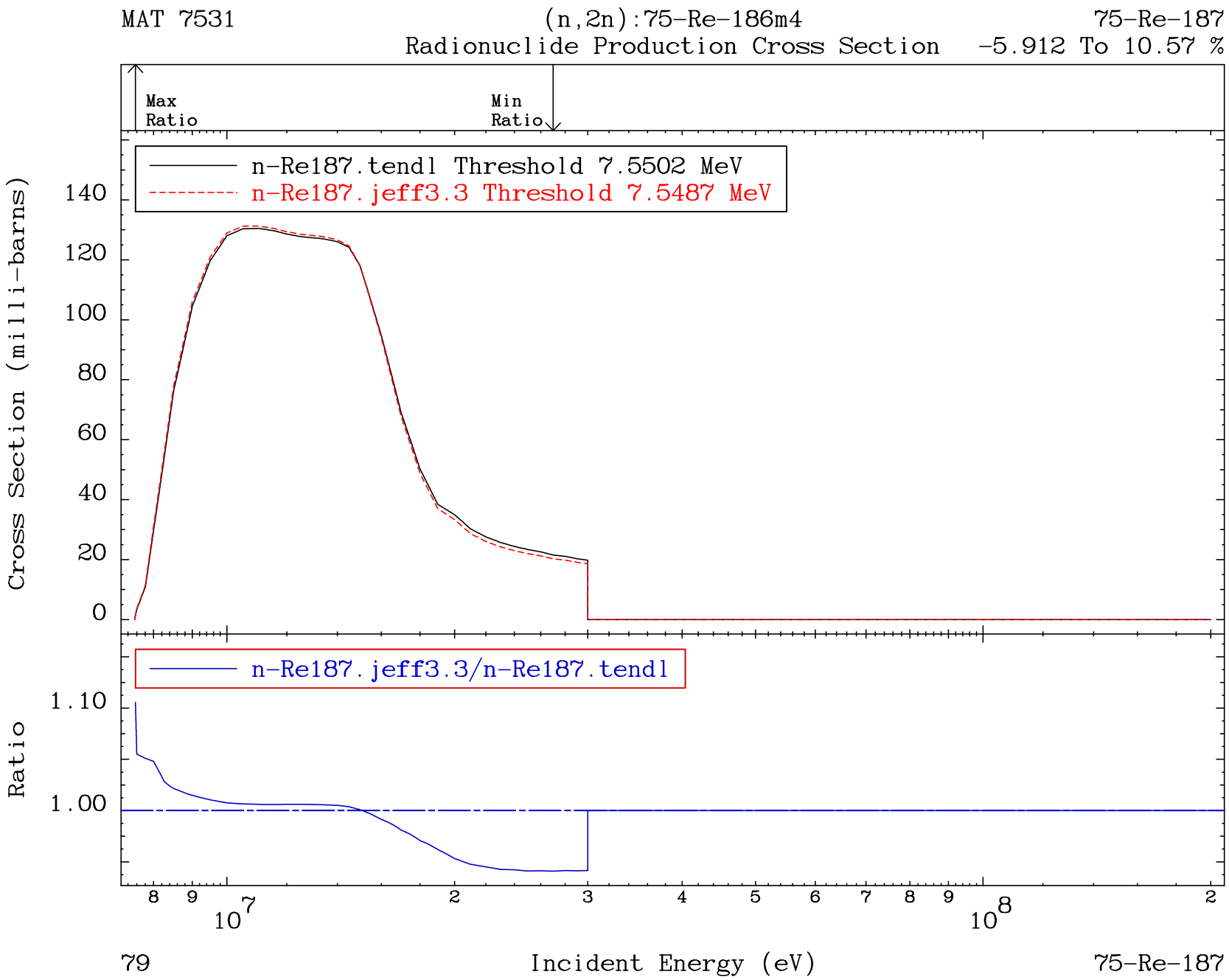

MAT 7531
Dpa total (eV-barns)
Cross Section
75-Re-187
-93.72 To 965.6 %
Min Ratio
Max Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
74
75-Re-187

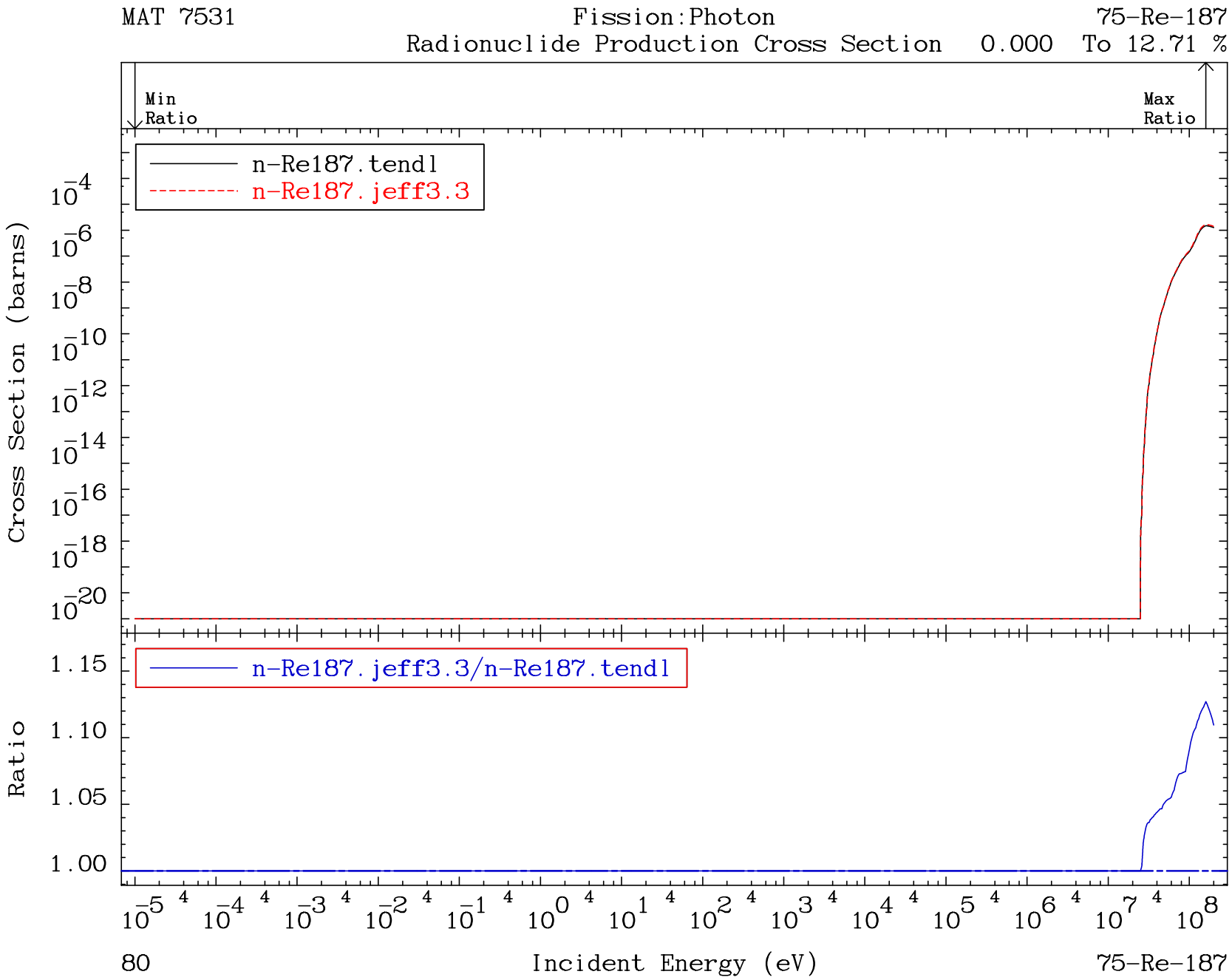

MAT 7531
Dpa elastic (mt2)
Cross Section
75-Re-187
-94.12 To 987.2 %
Min Ratio
Max Ratio
n-Re187.tendl Threshold 1.1001 keV
n-Re187.jeff3.3 Threshold 1.1001 keV
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
75
75-Re-187

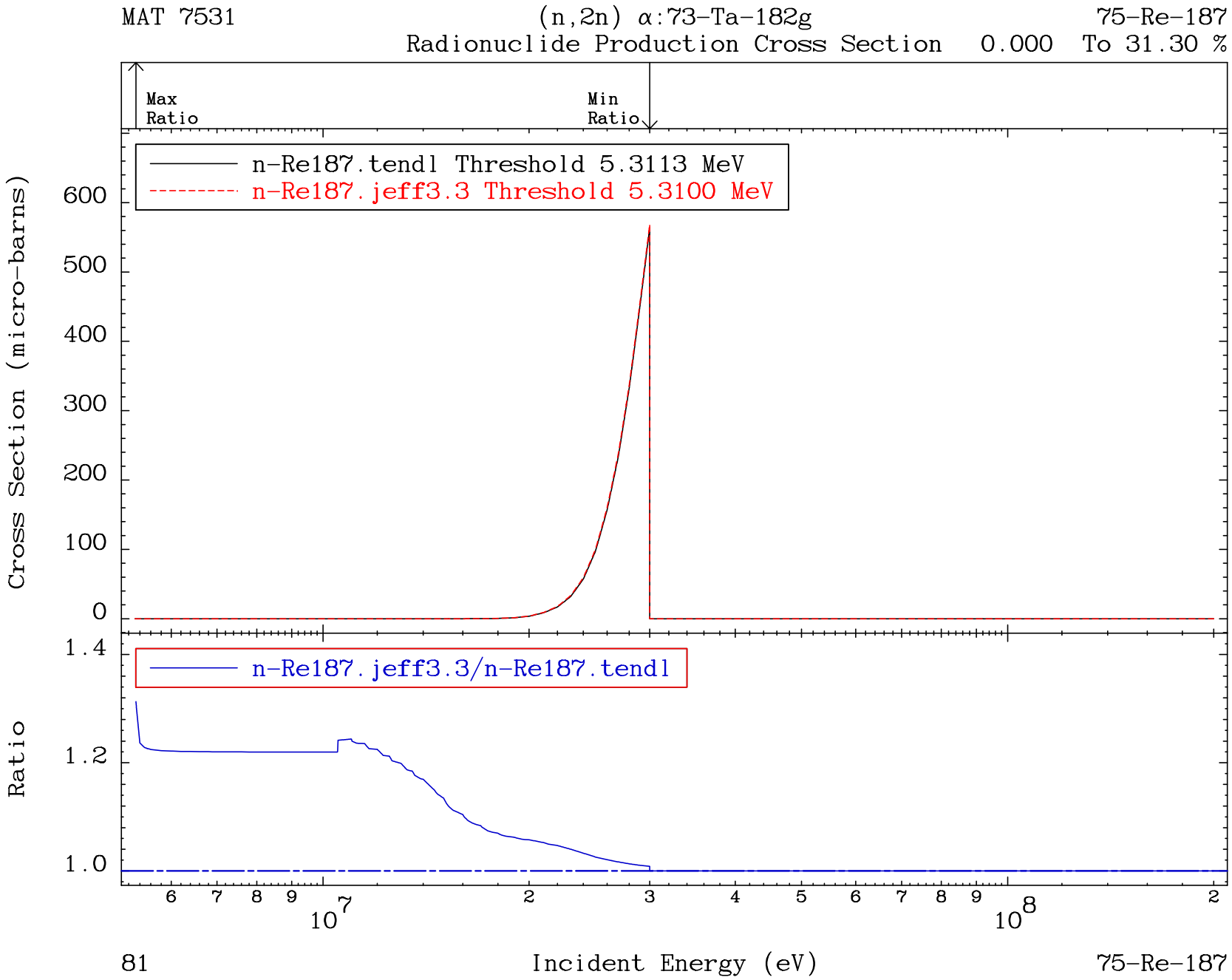

MAT 7531
Dpa inelastic (mt51-91)
Cross Section
75-Re-187
-0.041 To 5.775 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 150.00 keV
n-Re187.jeff3.3 Threshold 150.00 keV
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
76
75-Re-187

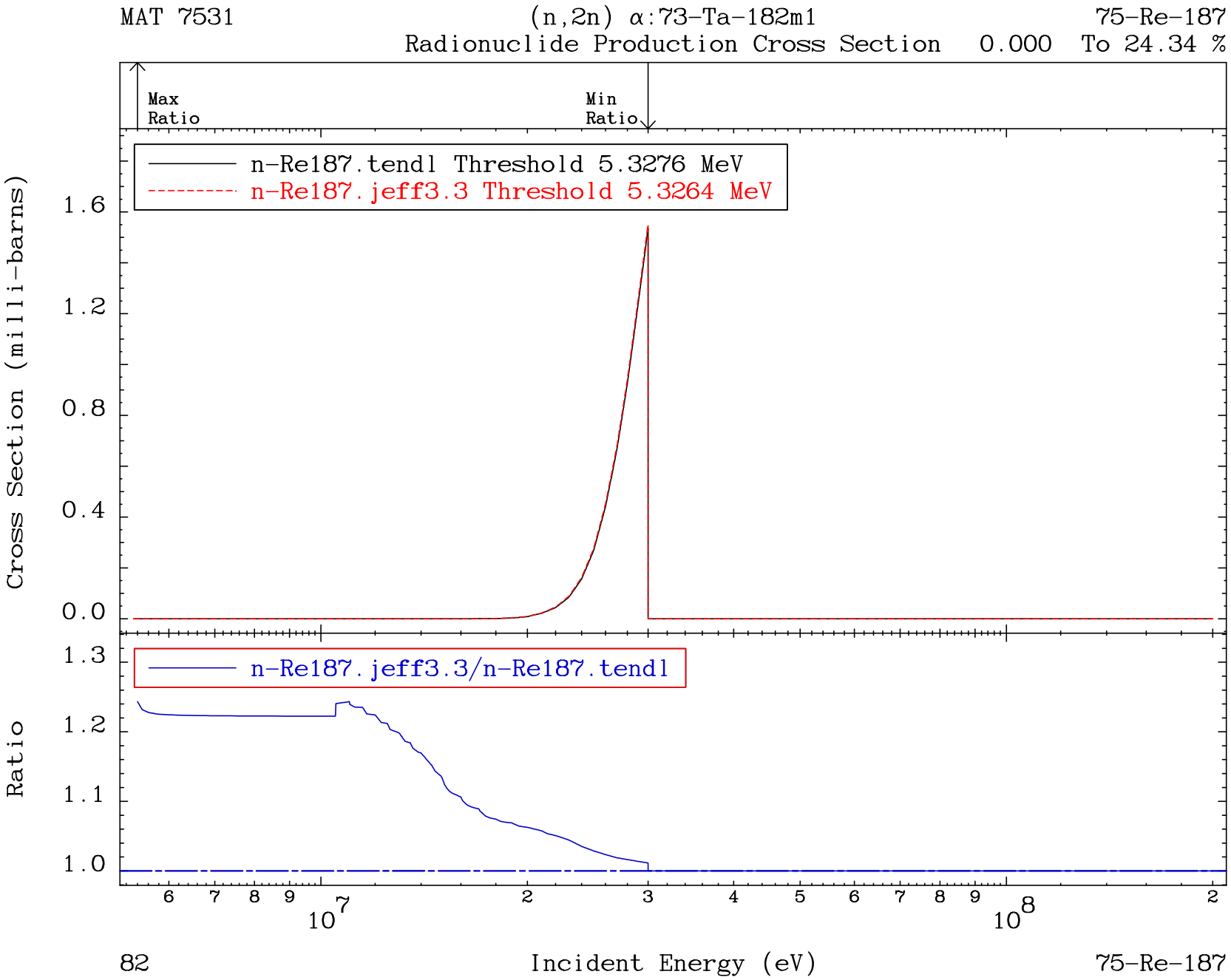

MAT 7531
Dpa disappearance (mt102 -120)
Cross Section
75-Re-187
-99.18 To 528.3 %
Max Ratio
Min Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
77
75-Re-187

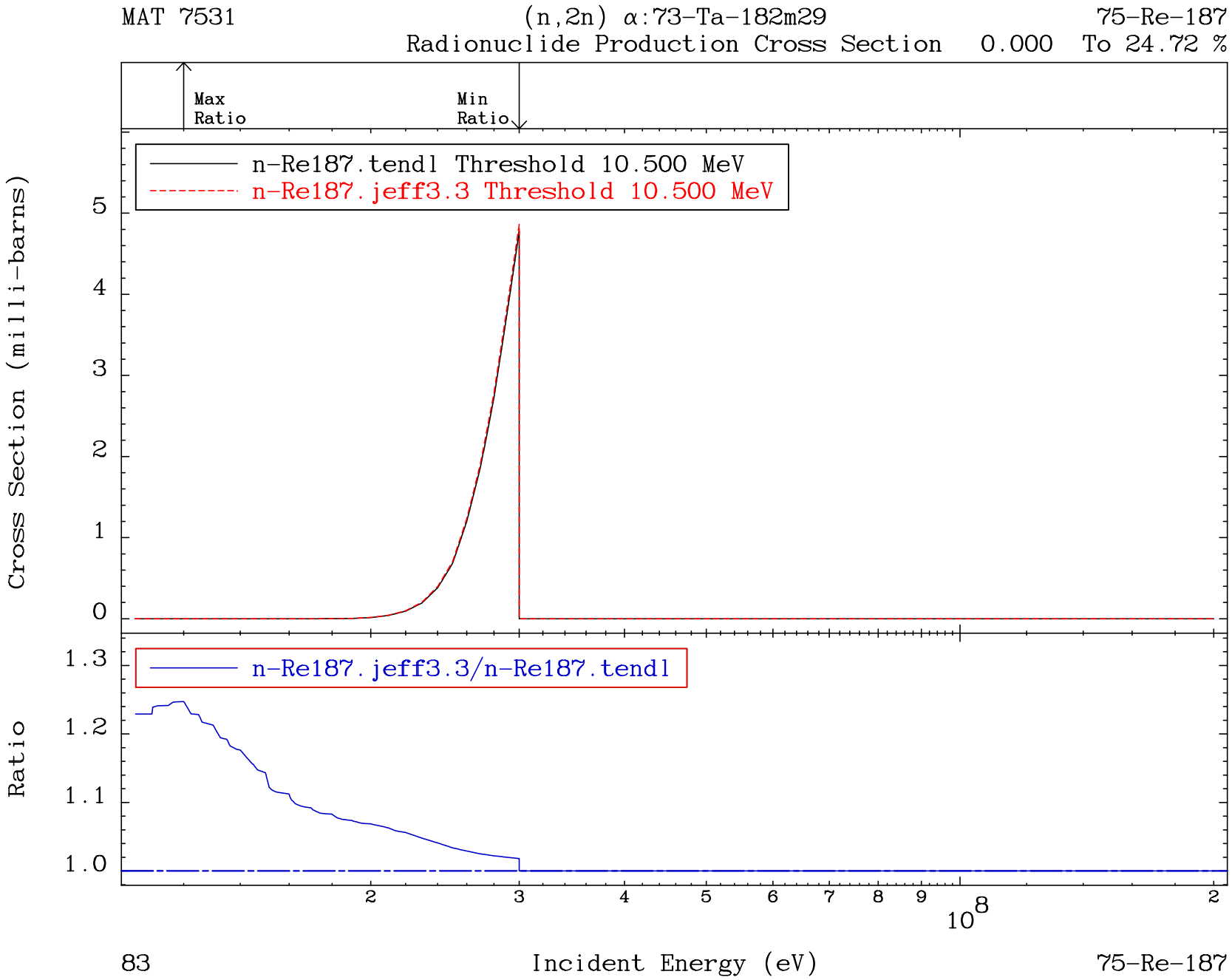

MAT 7531
(n,2n):75-Re-186g
75-Re-187
Radionuclide Production Cross Section
-6.204 To 4.670 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 7.4004 MeV
n-Re187.jeff3.3 Threshold 7.3989 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.05
1.00
0.95
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
78
Incident Energy (eV)
75-Re-187

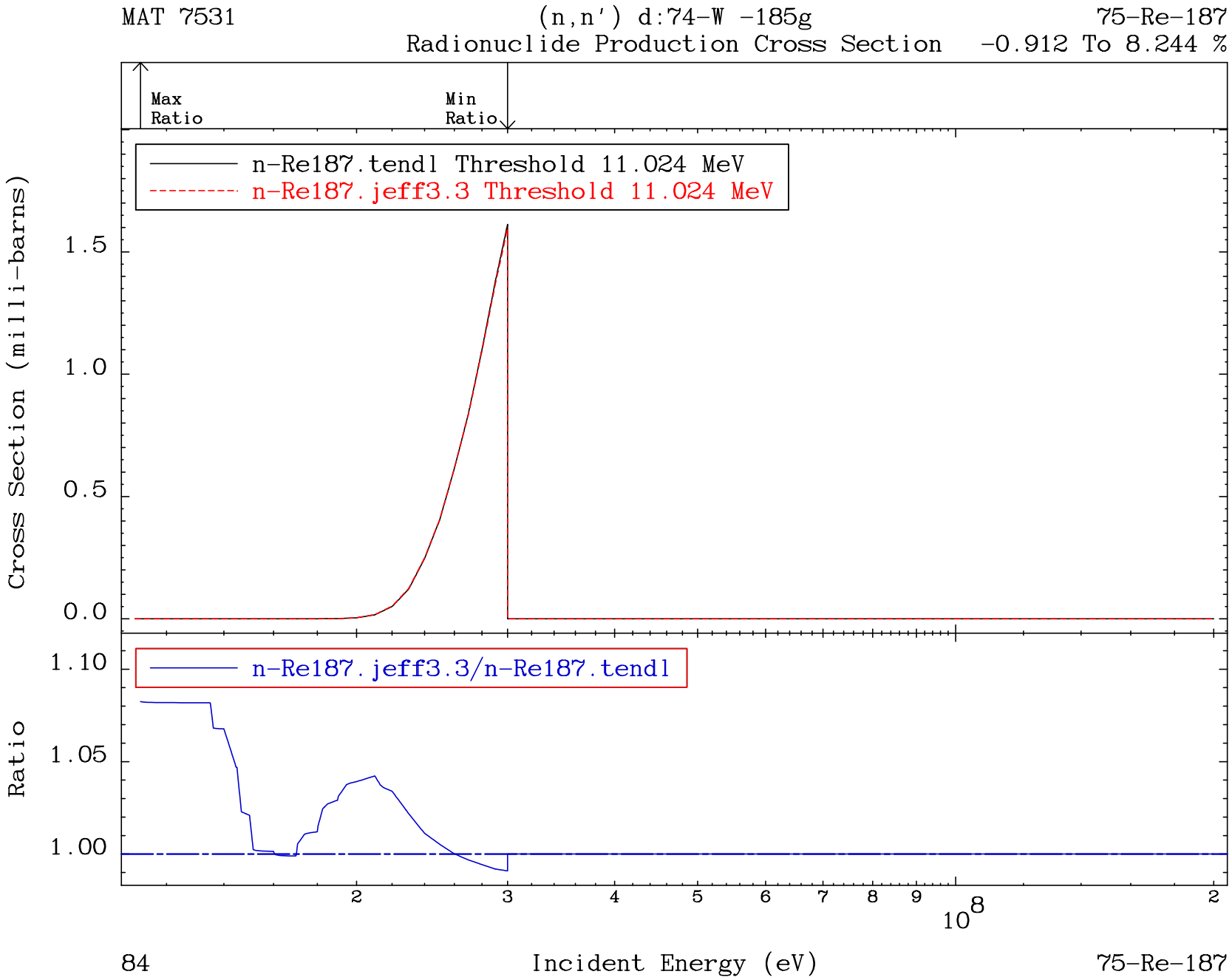

MAT 7531
(n,2n):75-Re-186m4
75-Re-187
Radionuclide Production Cross Section -5.912 To 10.57 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 7.5502 MeV
n-Re187.jeff3.3 Threshold 7.5487 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
79
Incident Energy (eV)
75-Re-187

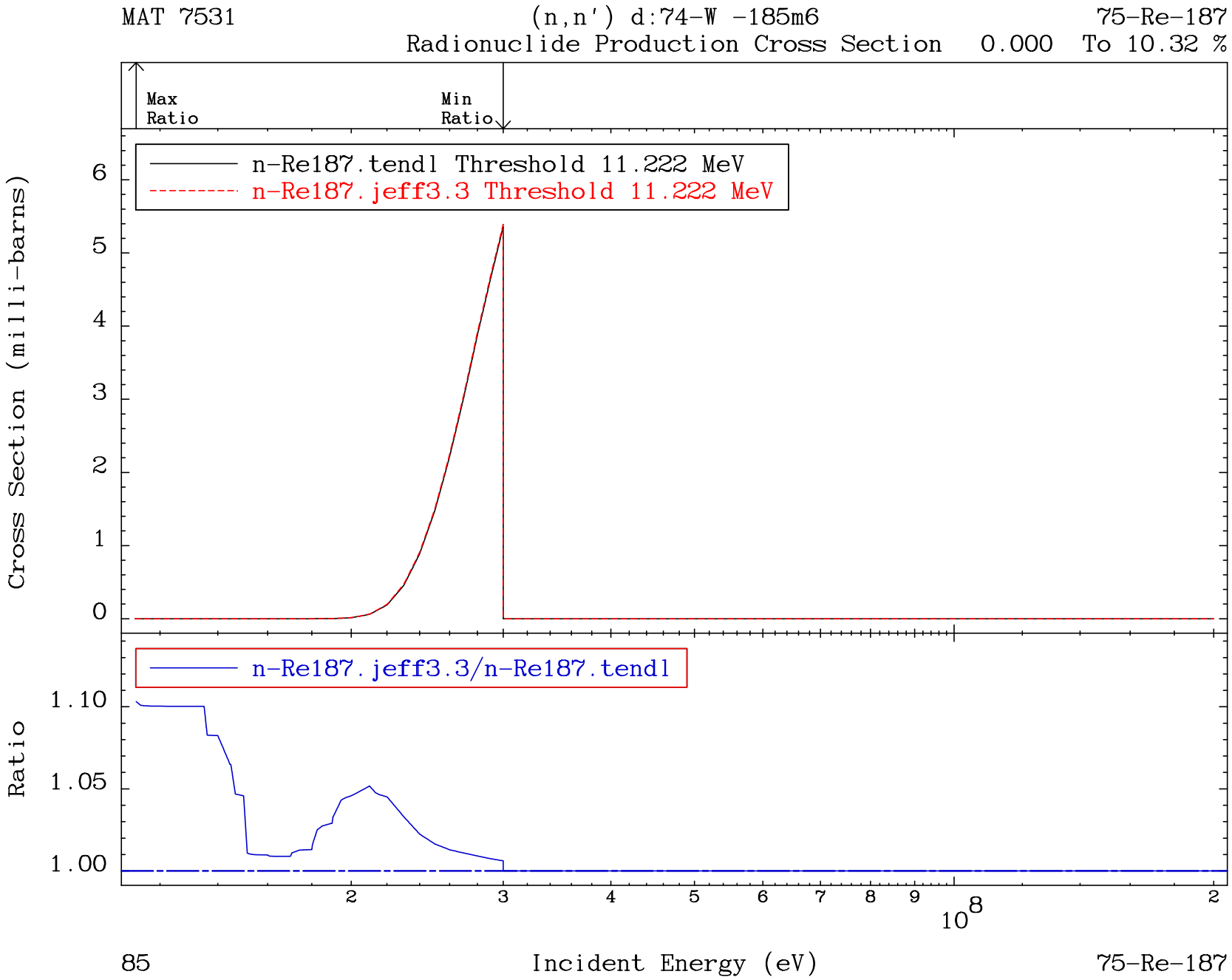

MAT 7531
Fission:Photon
75-Re-187
Radionuclide Production Cross Section 0.000 To 12.71 %
Min Ratio
Max Ratio
n-Re187.tendl
n-Re187.jeff3.3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
10^-14
10^-16
10^-18
10^-20
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.15
1.10
1.05
1.00
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
80
Incident Energy (eV)
75-Re-187

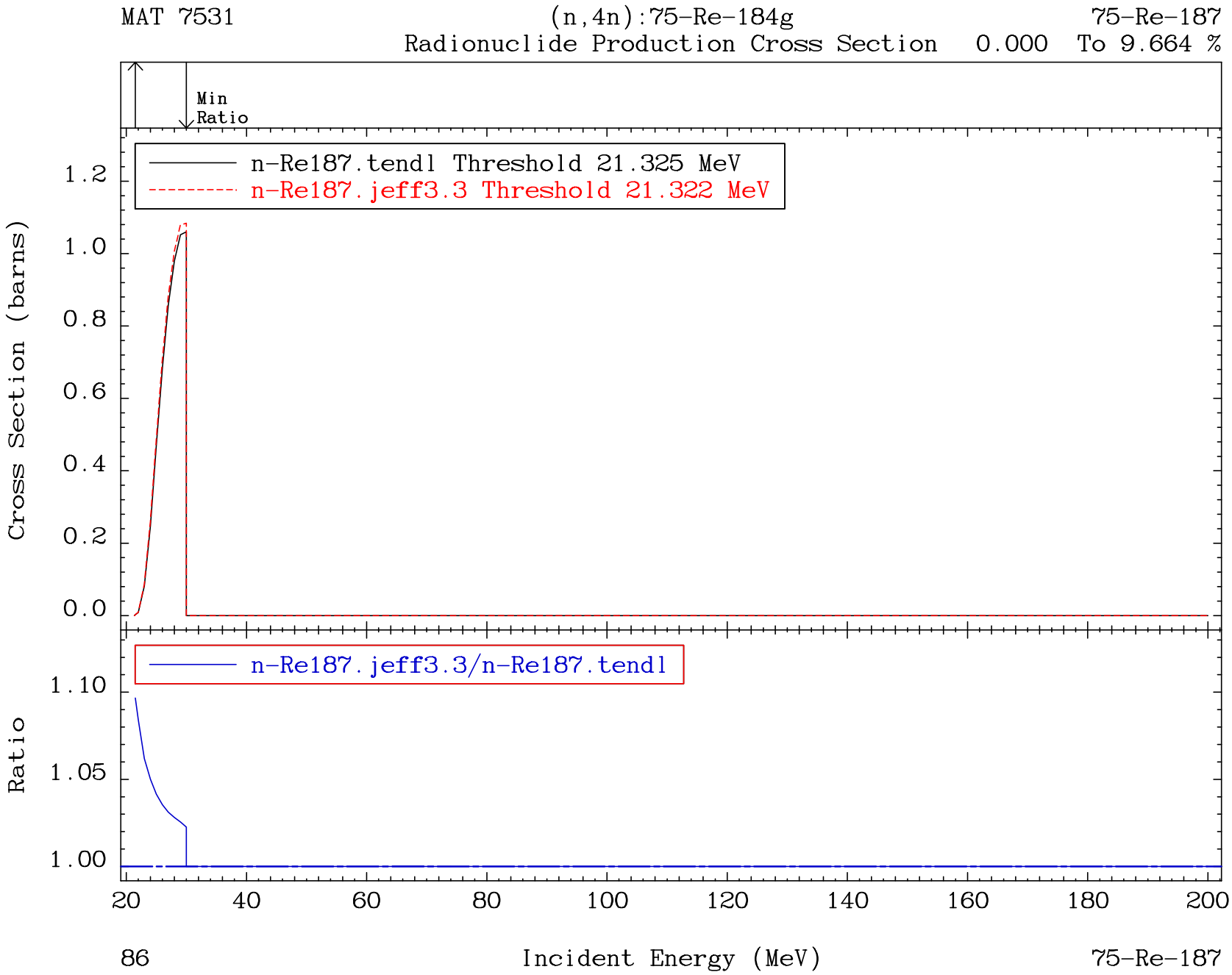

MAT 7531
(n,2n) α:73-Ta-182g
75-Re-187
Radionuclide Production Cross Section 0.000 To 31.30 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 5.3113 MeV
n-Re187.jeff3.3 Threshold 5.3100 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.4
1.2
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
81
Incident Energy (eV)
75-Re-187

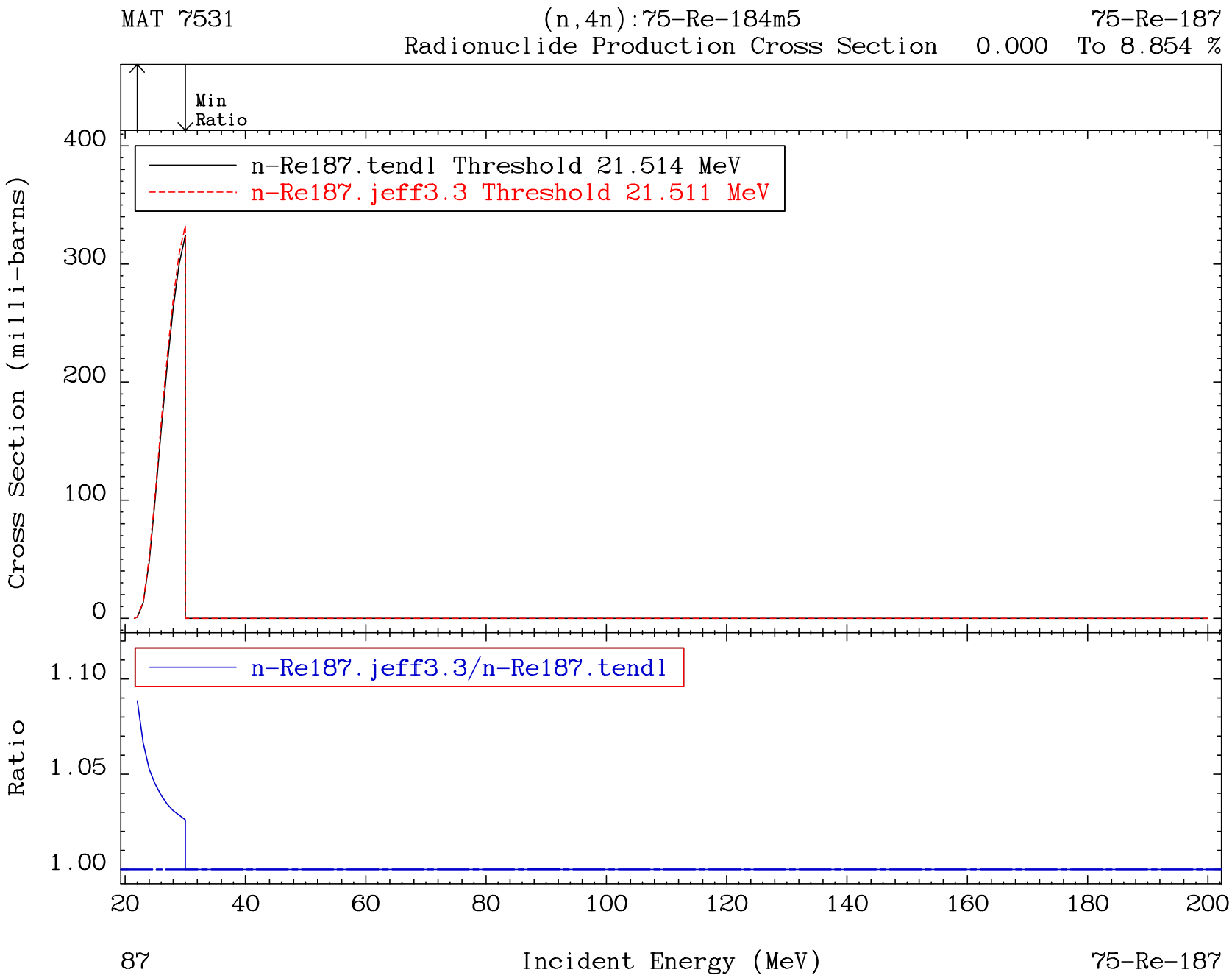

MAT 7531
(n,2n) α:73-Ta-182m1
75-Re-187
Radionuclide Production Cross Section 0.000 To 24.34 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 5.3276 MeV
n-Re187.jeff3.3 Threshold 5.3264 MeV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.3
1.2
1.1
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
82
Incident Energy (eV)
75-Re-187

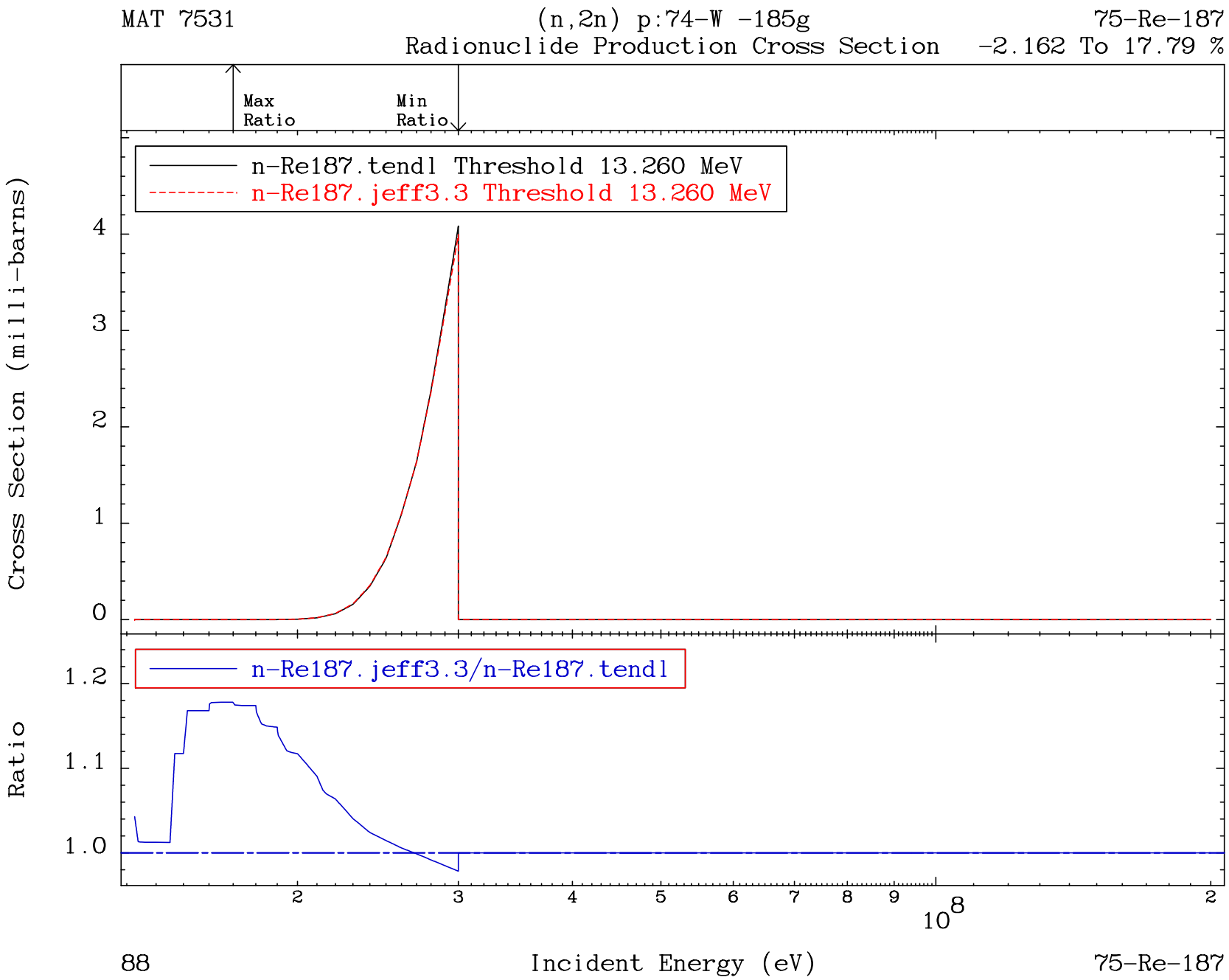

MAT 7531
(n,2n) α:73-Ta-182m29
75-Re-187
Radionuclide Production Cross Section 0.000 To 24.72 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 10.500 MeV
n-Re187.jeff3.3 Threshold 10.500 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.0
1.1
1.2
1.3
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
75-Re-187

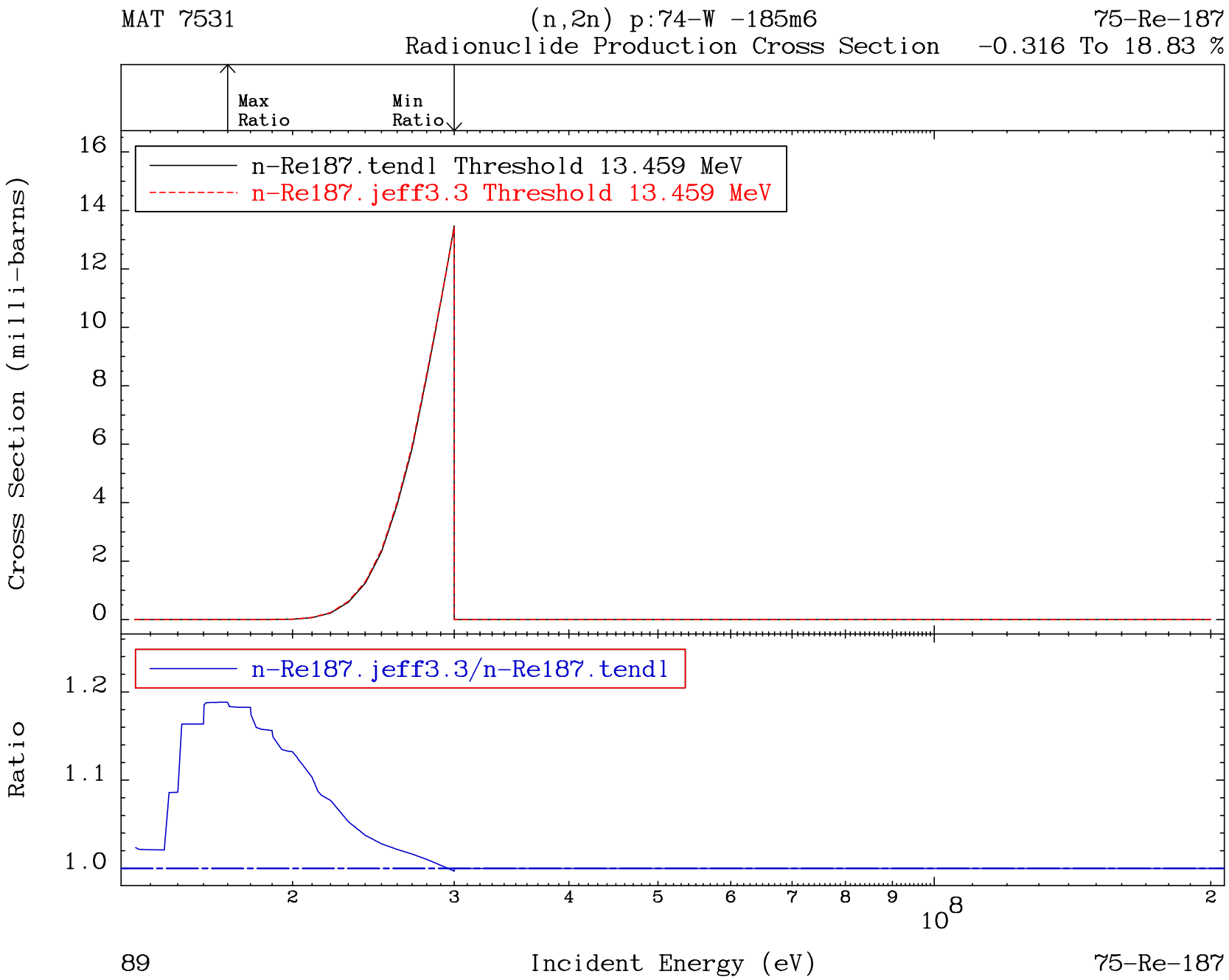

MAT 7531
(n,n') d:74-W -185g
75-Re-187
Radionuclide Production Cross Section -0.912 To 8.244 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 11.024 MeV
n-Re187.jeff3.3 Threshold 11.024 MeV
Cross Section (milli-barns)
1.5
1.0
0.5
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
75-Re-187

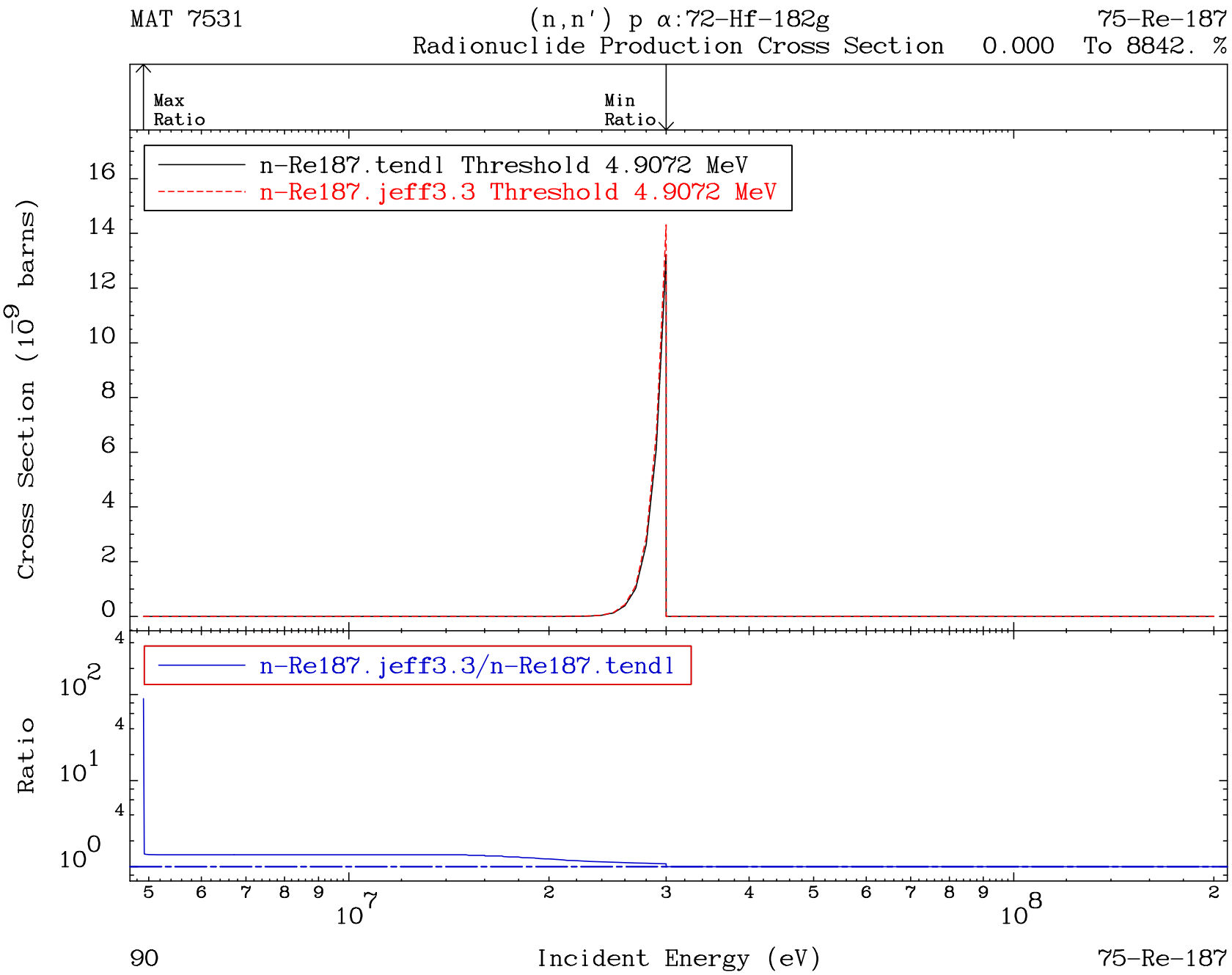

MAT 7531
(n,n') d:74-W -185m6
75-Re-187
Radionuclide Production Cross Section 0.000 To 10.32 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 11.222 MeV
n-Re187.jeff3.3 Threshold 11.222 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.00
1.05
1.10
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
75-Re-187

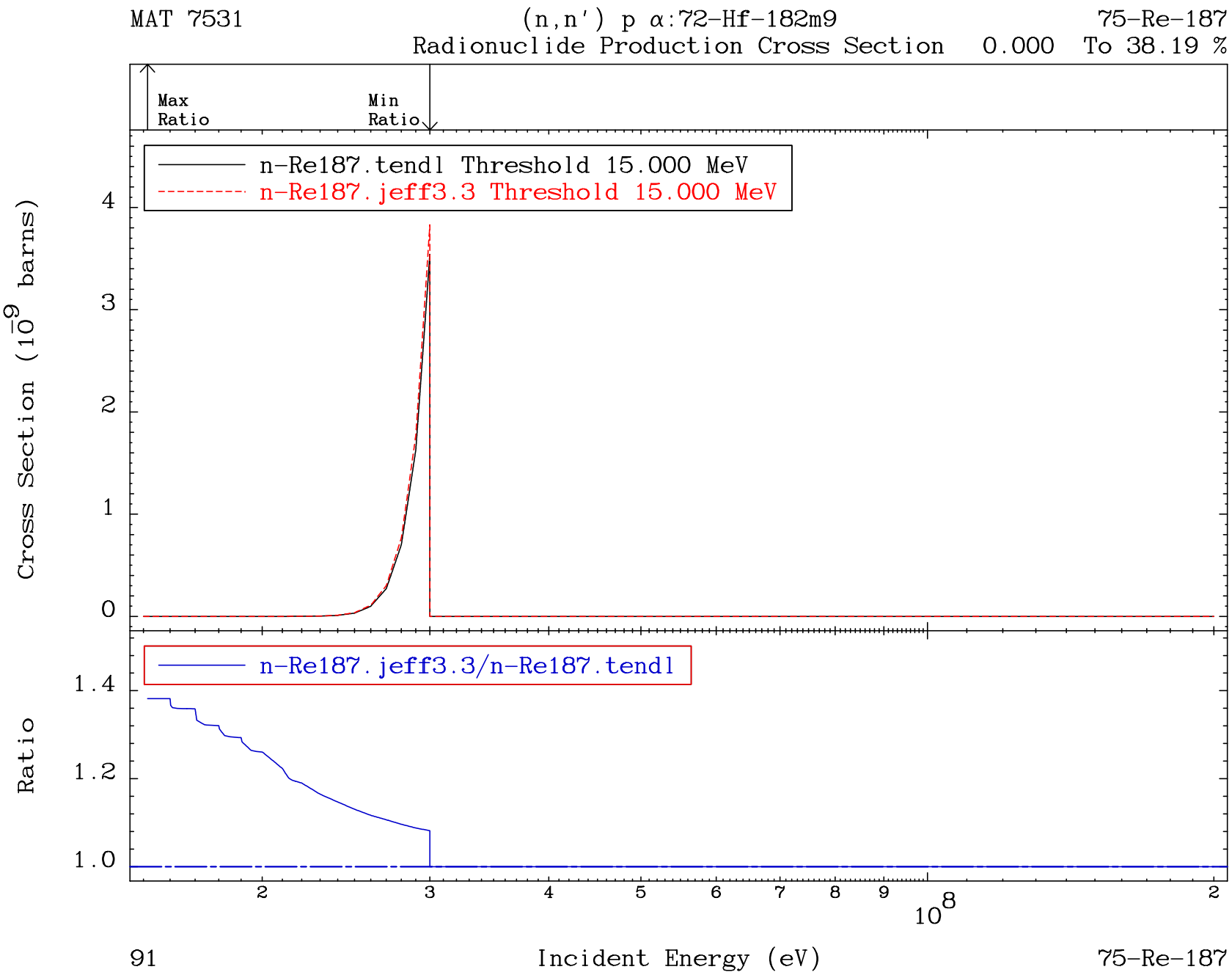

MAT 7531
(n,4n):75-Re-184g
75-Re-187
Radionuclide Production Cross Section 0.000 To 9.664 %
Min Ratio
n-Re187.tendl Threshold 21.325 MeV
n-Re187.jeff3.3 Threshold 21.322 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
20
40
60
80
100
120
140
160
180
200
86
Incident Energy (MeV)
75-Re-187

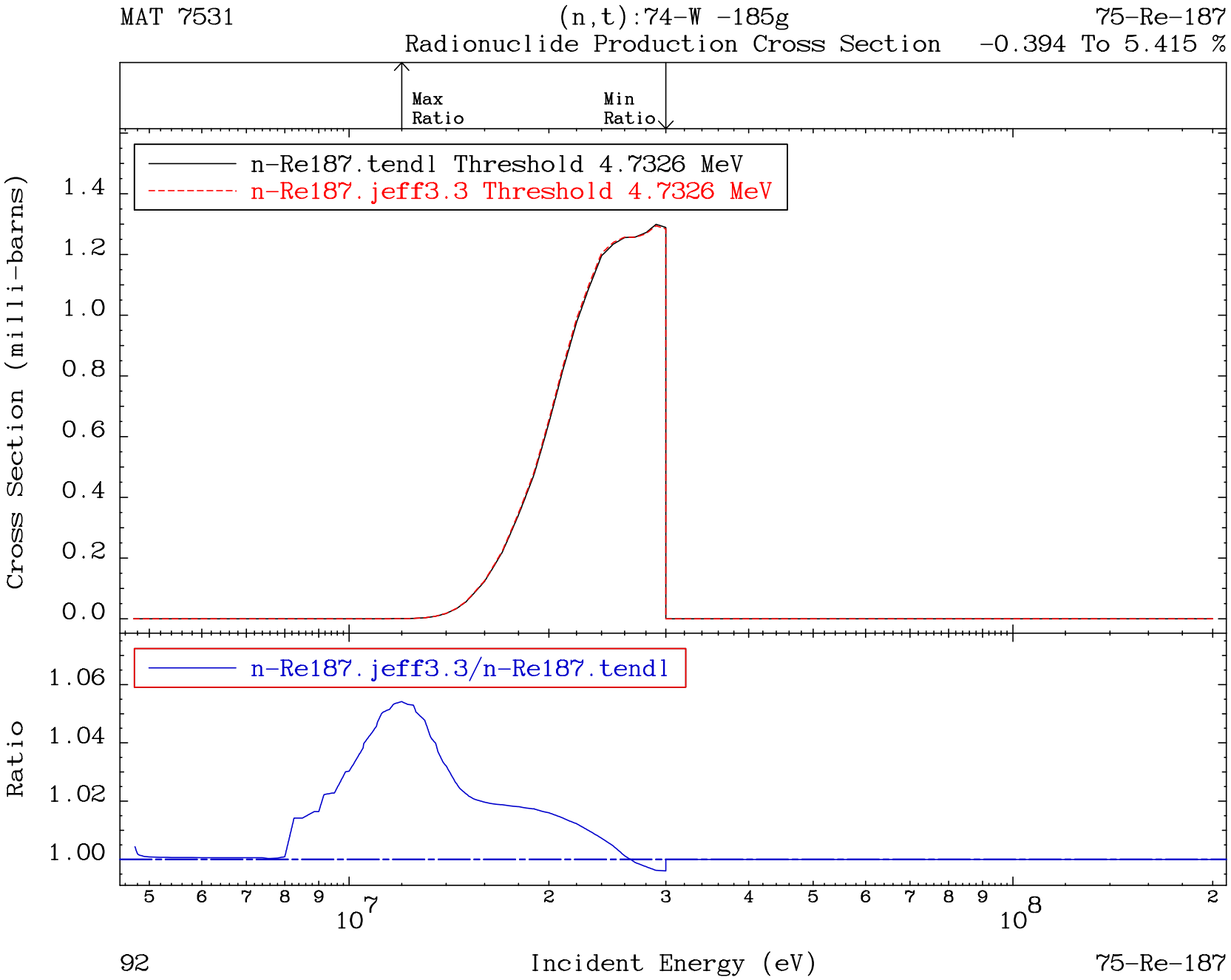

MAT 7531
(n,4n):75-Re-184m5
75-Re-187
Radionuclide Production Cross Section 0.000 To 8.854 %
Min
Ratio
n-Re187.tendl Threshold 21.514 MeV
n-Re187.jeff3.3 Threshold 21.511 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.10
1.05
1.00
20
40
60
80
100
120
140
160
180
200
87
Incident Energy (MeV)
75-Re-187

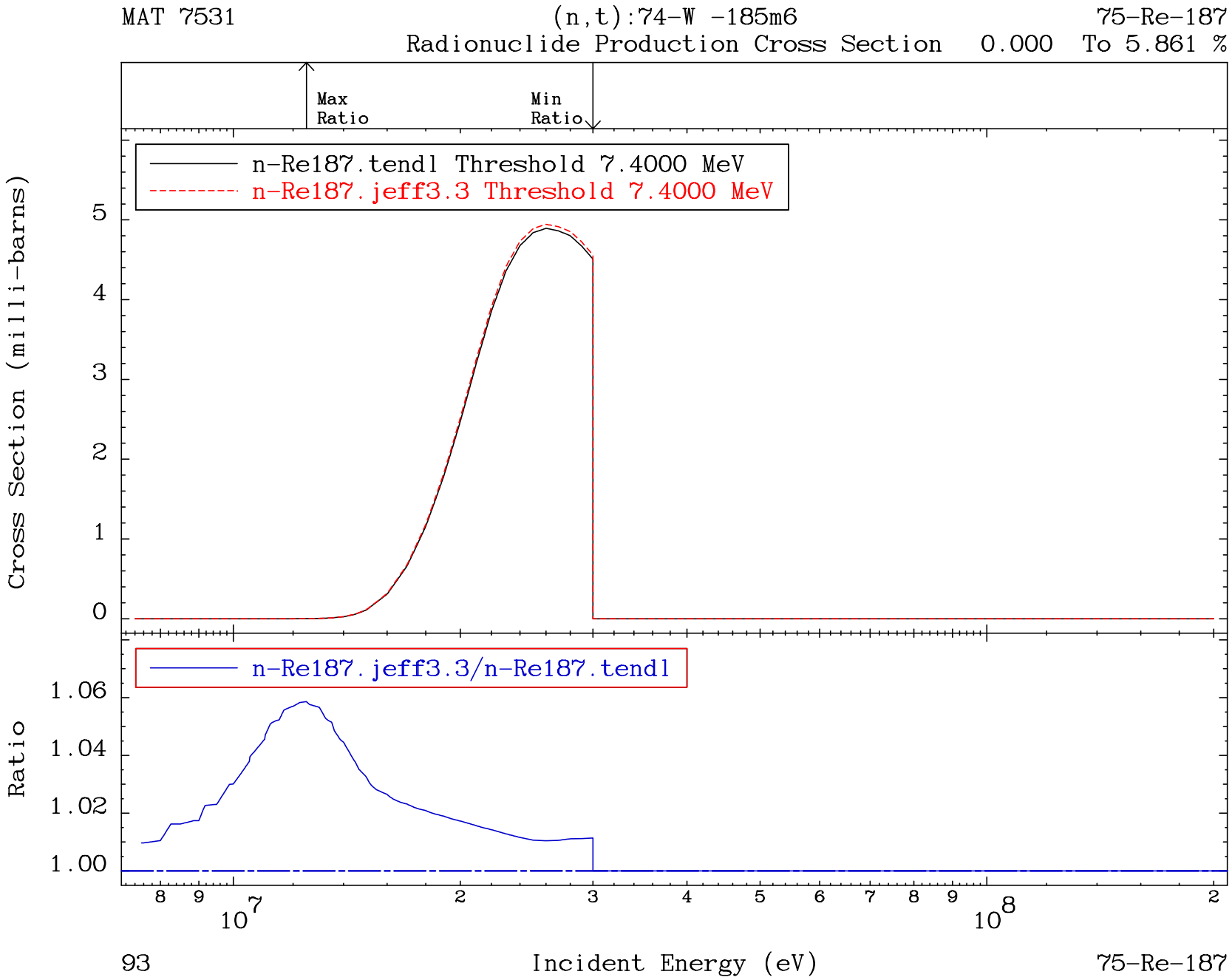

MAT 7531
(n,2n) p:74-W -185g
75-Re-187
Radionuclide Production Cross Section
-2.162 To 17.79 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 13.260 MeV
n-Re187.jeff3.3 Threshold 13.260 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.0
1.1
1.2
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
75-Re-187


MAT 7531
(n,2n) p:74-W -185m6
75-Re-187
Radionuclide Production Cross Section -0.316 To 18.83 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 13.459 MeV
n-Re187.jeff3.3 Threshold 13.459 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
75-Re-187


MAT 7531
(n,n') p α:72-Hf-182g
75-Re-187
Radionuclide Production Cross Section 0.000 To 8842. %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 4.9072 MeV
n-Re187.jeff3.3 Threshold 4.9072 MeV
Cross Section (10^{-9} barns)
n-Re187.jeff3.3/n-Re187.tendl
Ratio
Incident Energy (eV)
90
75-Re-187


MAT 7531
(n,n') p α:72-Hf-182m9
75-Re-187
Radionuclide Production Cross Section 0.000 To 38.19 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 15.000 MeV
n-Re187.jeff3.3 Threshold 15.000 MeV
Cross Section (10^{-9} barns)
0
1
2
3
4
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.0
1.2
1.4
2
3
4
5
6
7
8
9
10^{8}
2
91
Incident Energy (eV)
75-Re-187


MAT 7531
(n,t):74-W -185g
75-Re-187
Radionuclide Production Cross Section -0.394 To 5.415 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 4.7326 MeV
n-Re187.jeff3.3 Threshold 4.7326 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.06
1.04
1.02
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
92
Incident Energy (eV)
75-Re-187


MAT 7531
(n,t):74-W -185m6
75-Re-187
Radionuclide Production Cross Section 0.000 To 5.861 %
Max Ratio
Min Ratio
n-Re187.tendl Threshold 7.4000 MeV
n-Re187.jeff3.3 Threshold 7.4000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Re187.jeff3.3/n-Re187.tendl
Ratio
1.00
1.02
1.04
1.06
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
93
Incident Energy (eV)
75-Re-187