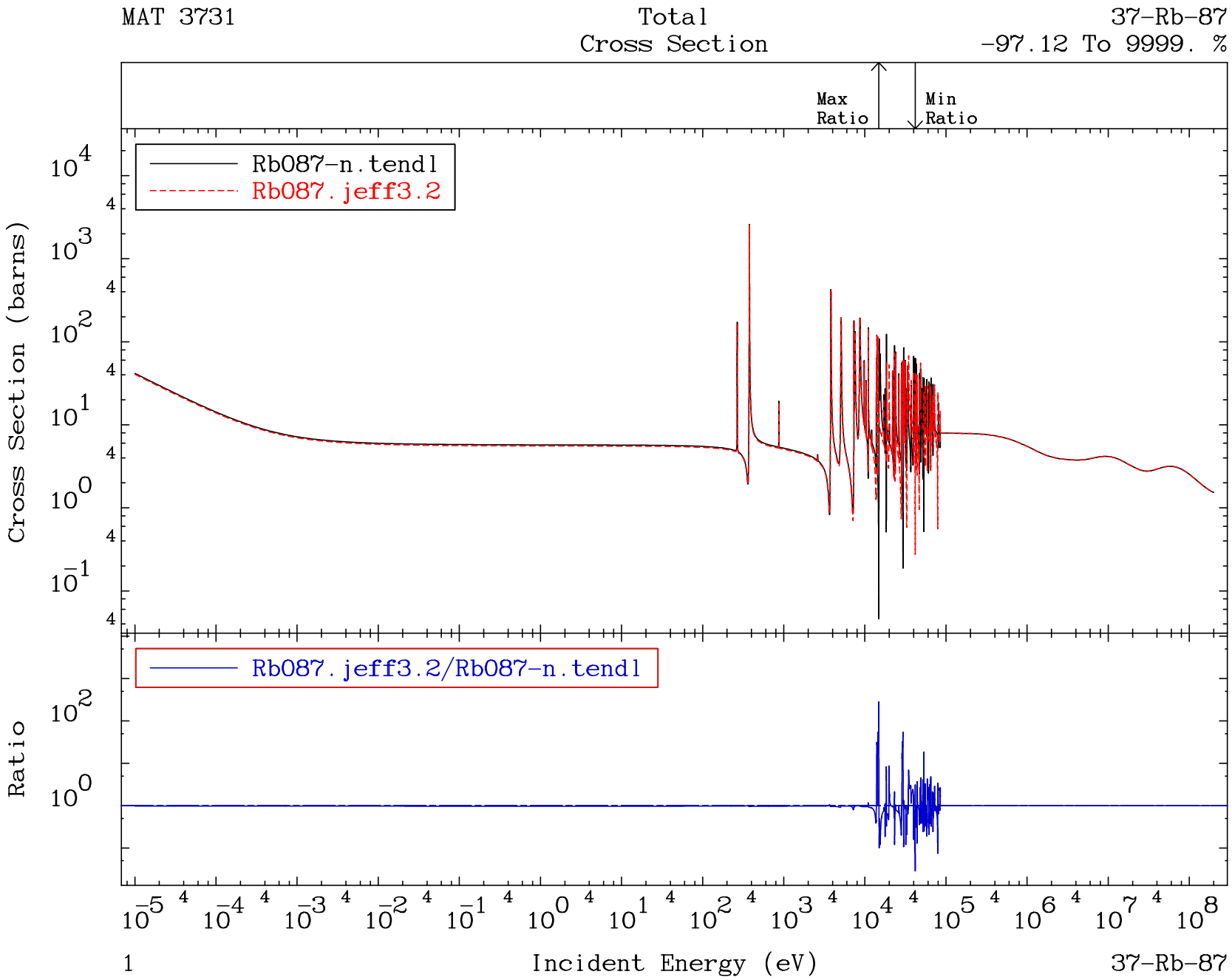
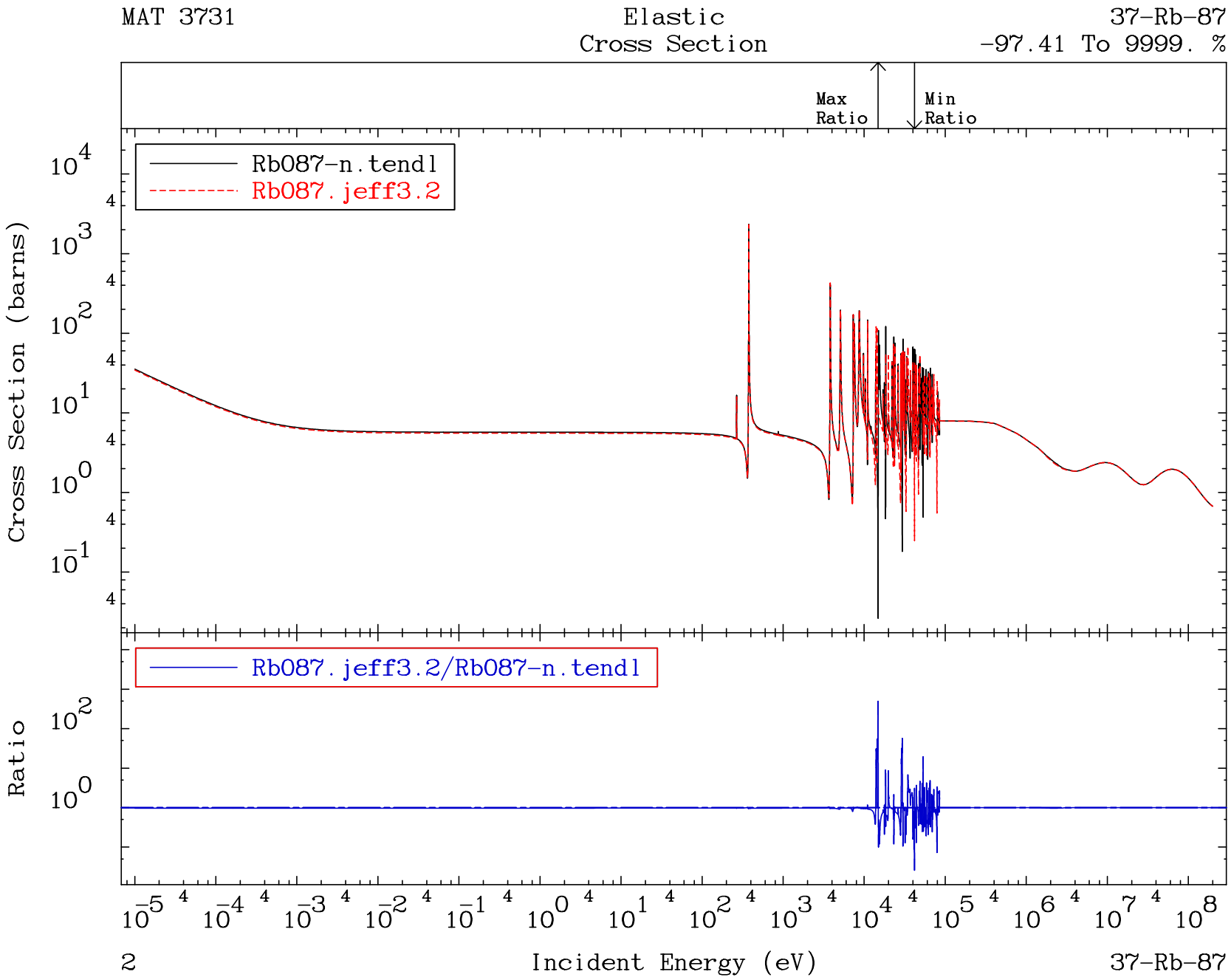
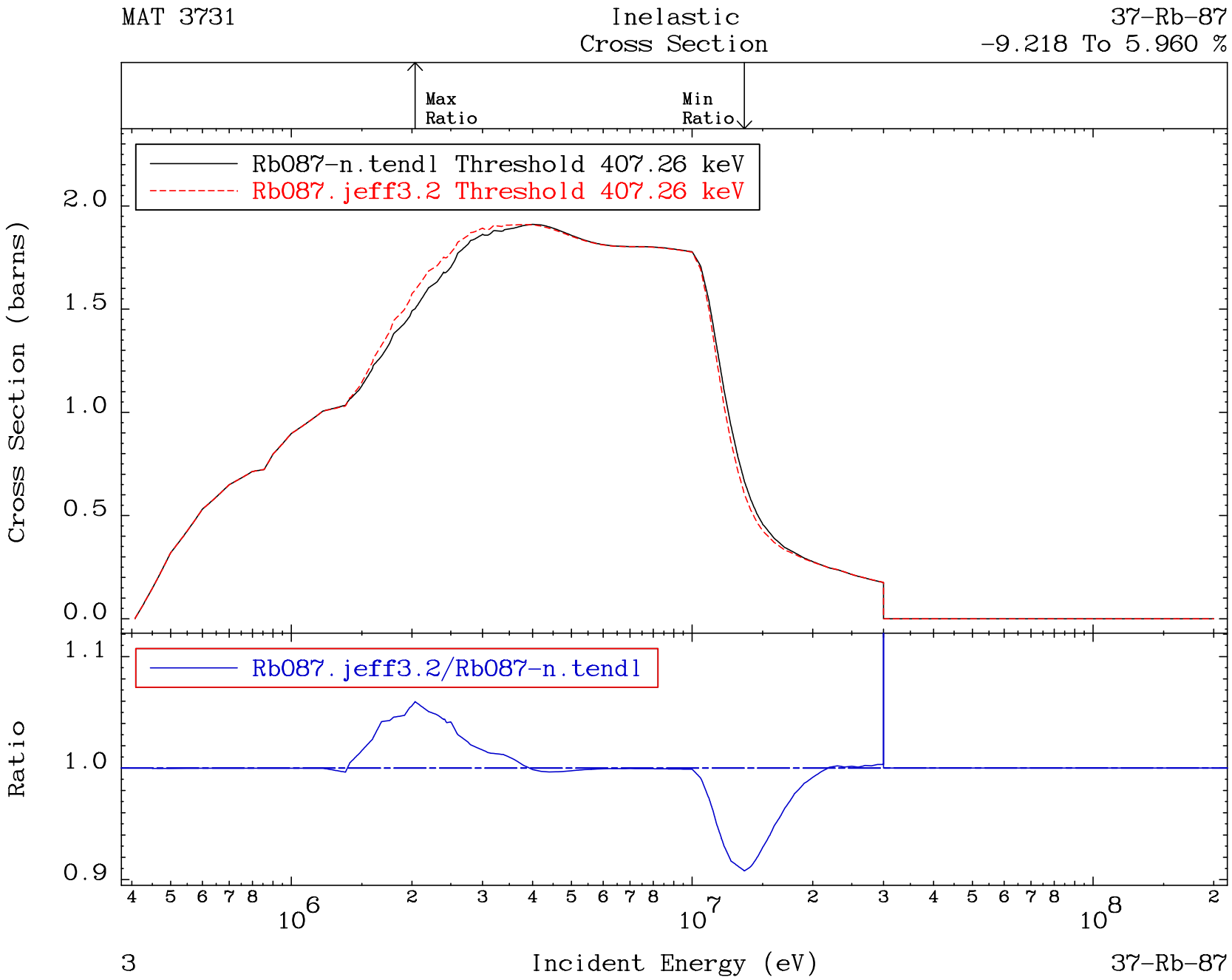
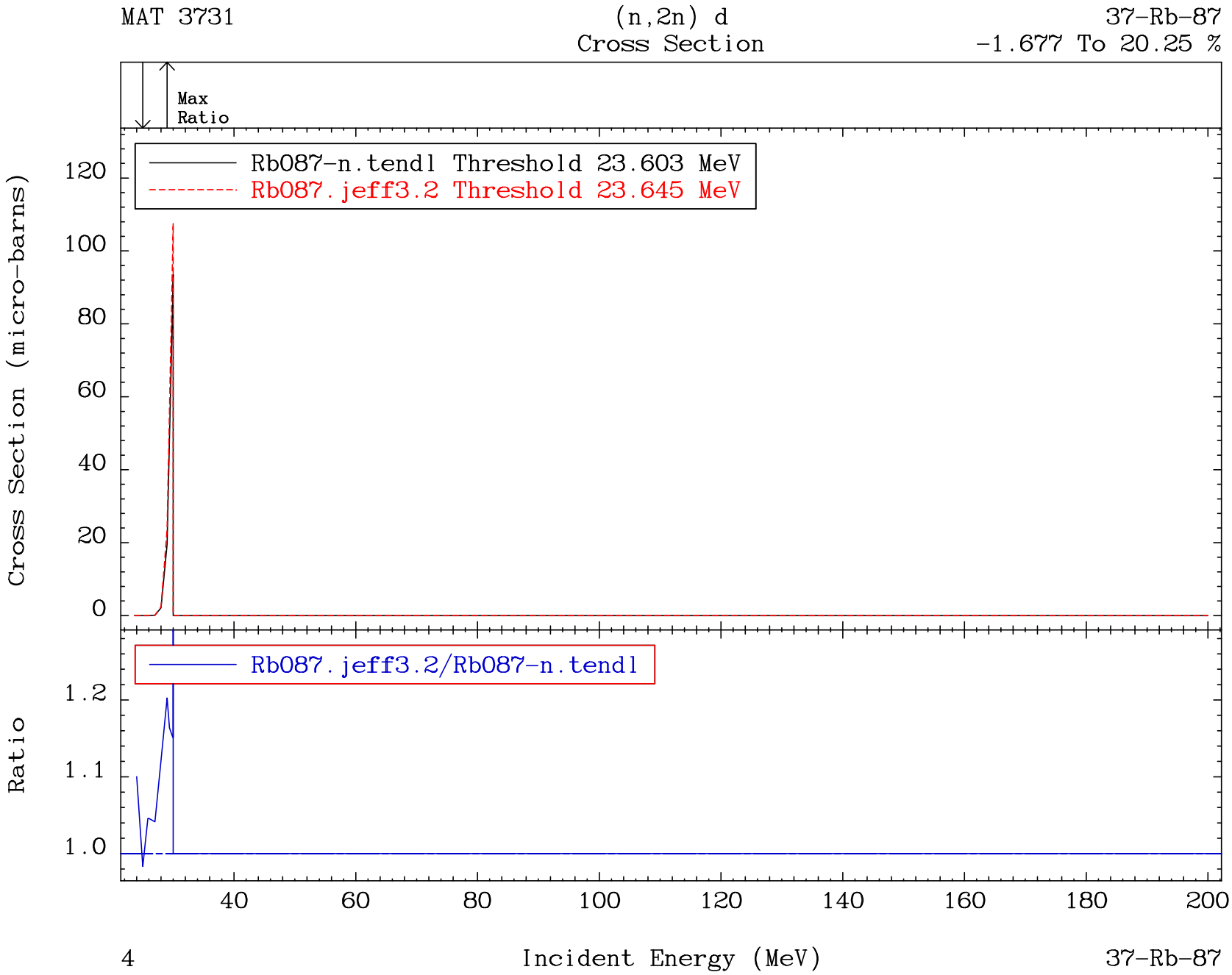
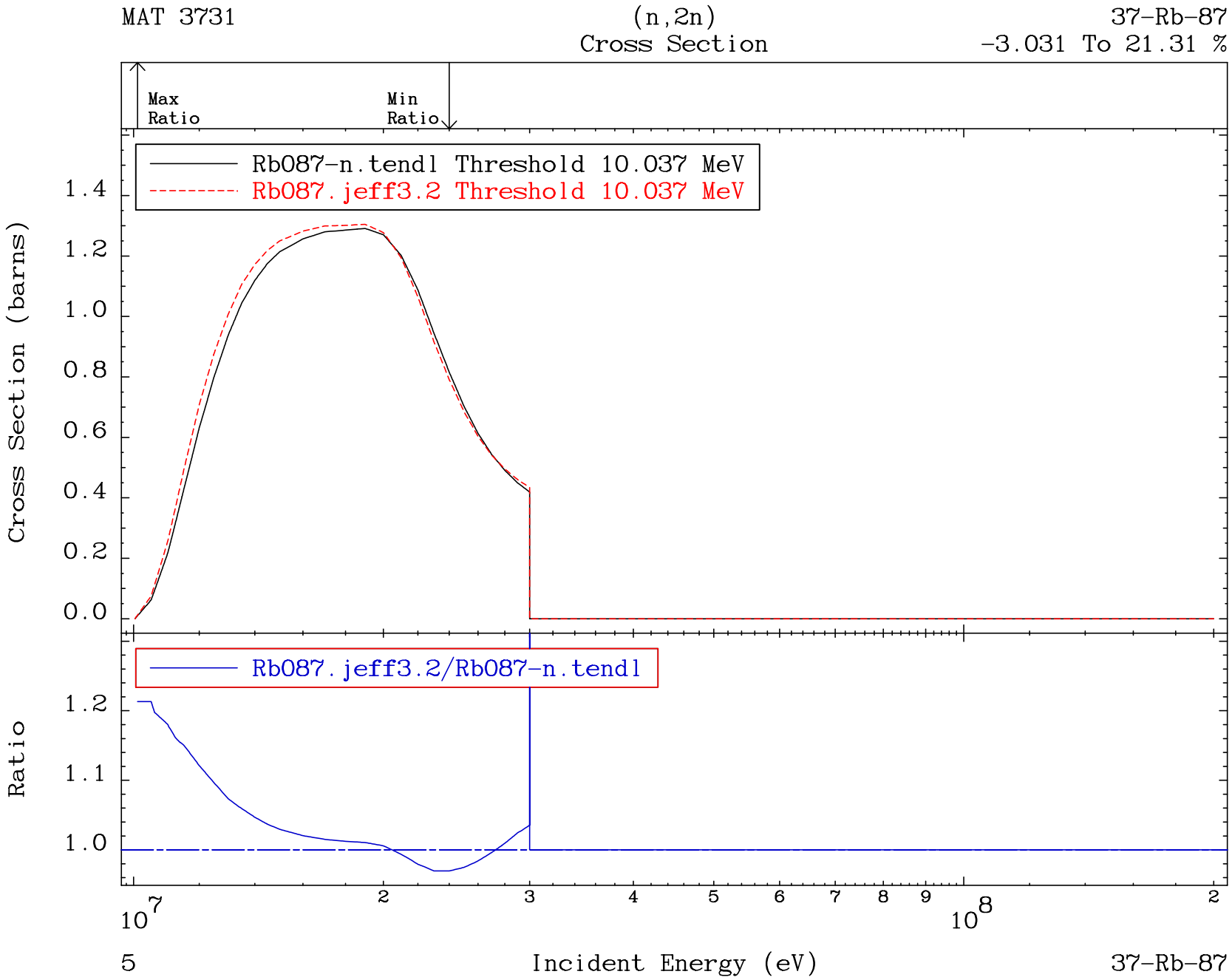
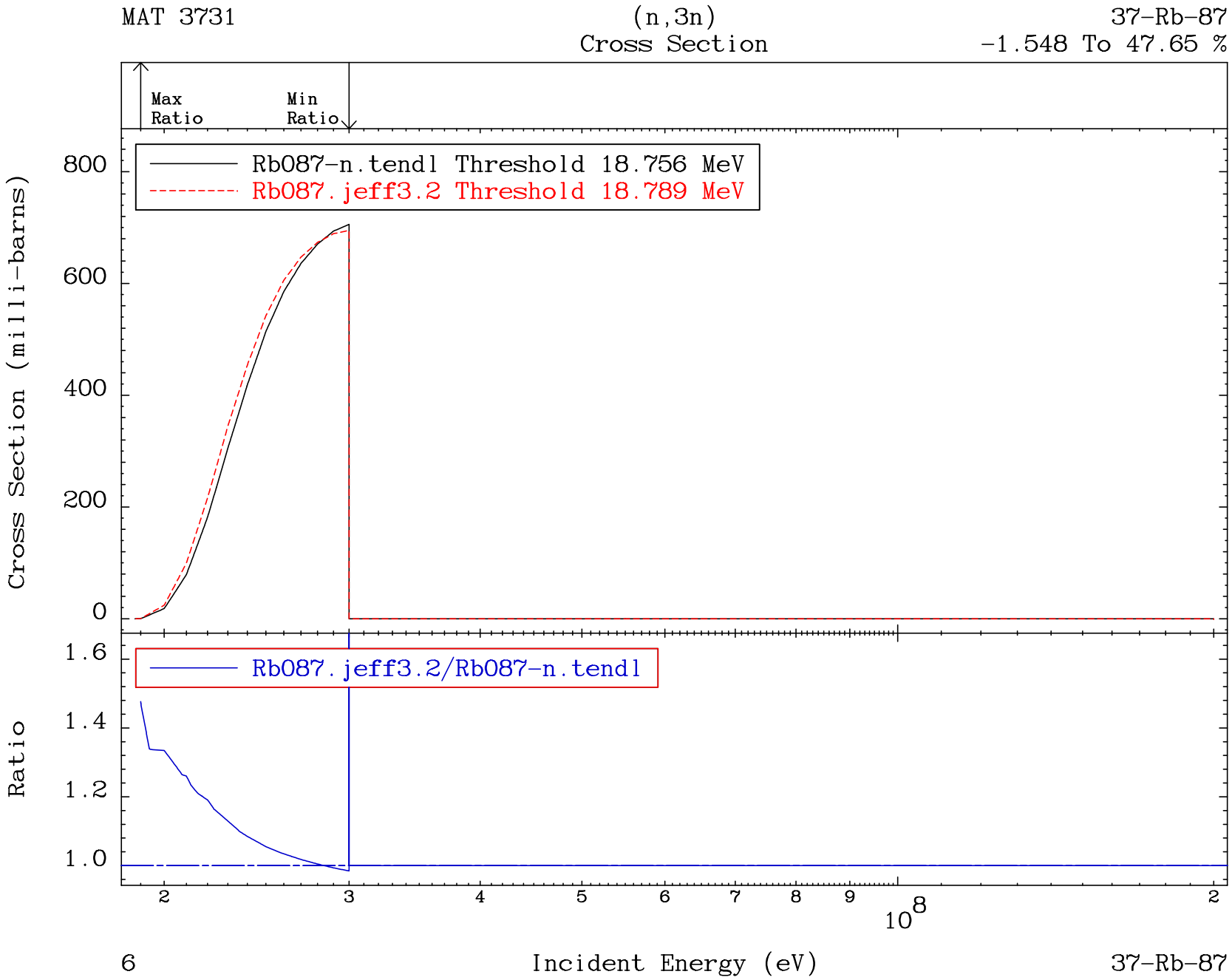

MAT 3731
Total
Cross Section
37-Rb-87
-97.12 To 9999. %
Max Ratio
Min Ratio
Rb087-n.tendl
Rb087.jeff3.2
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
1
37-Rb-87

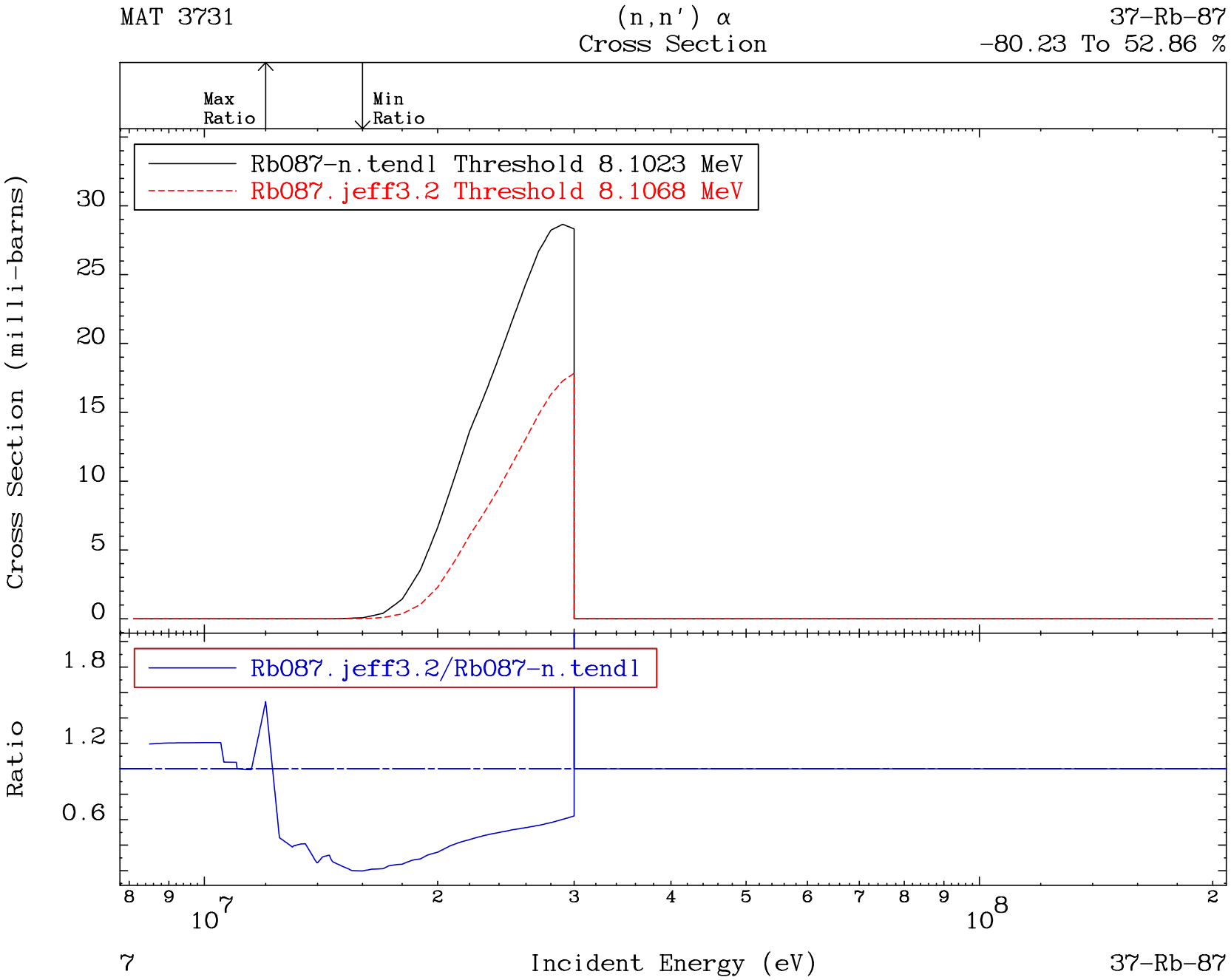

MAT 3731
Elastic
Cross Section
37-Rb-87
-97.41 To 9999. %
Max Ratio
Min Ratio
Rb087-n.tendl
Rb087.jeff3.2
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
2
37-Rb-87

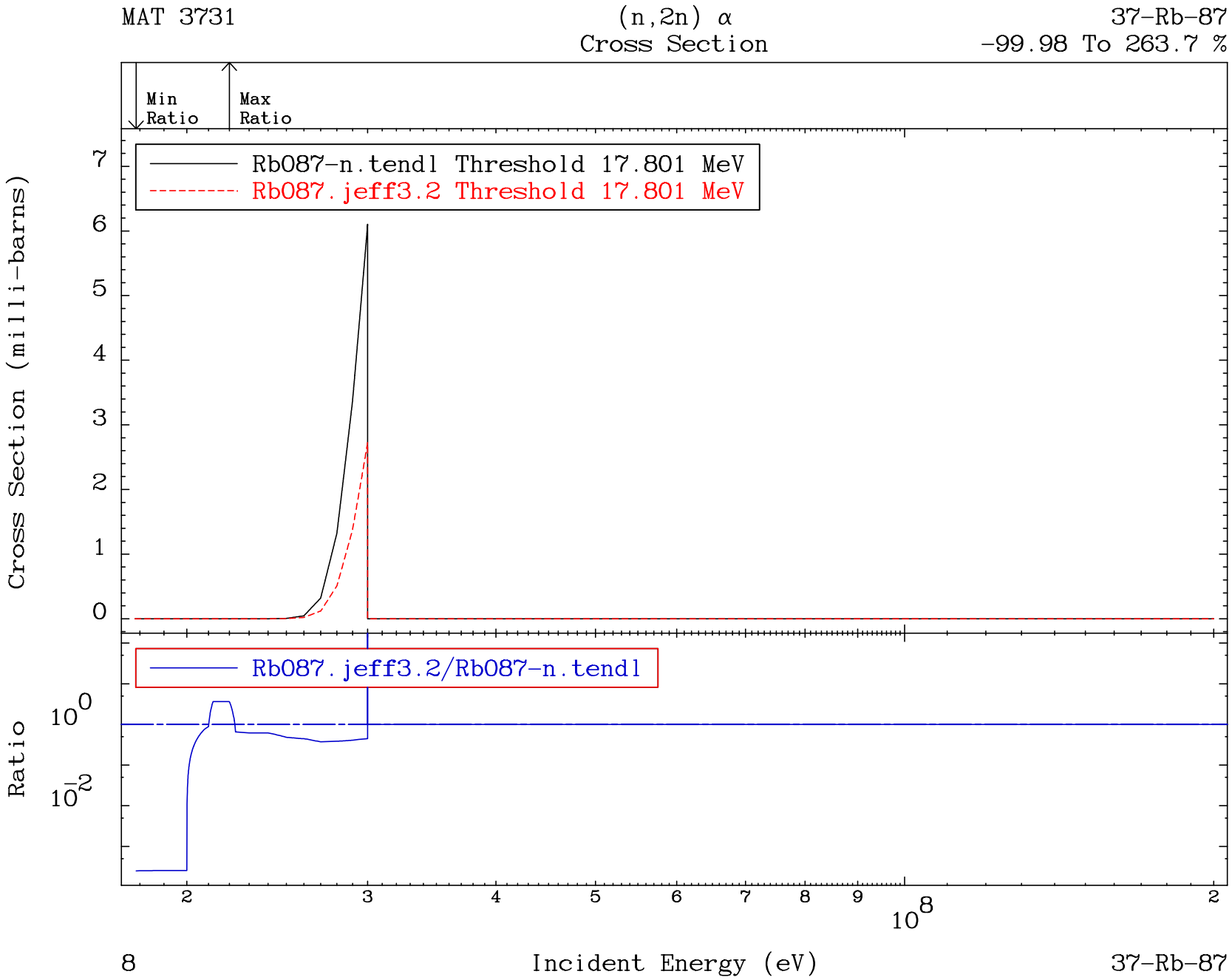

MAT 3731
Inelastic
Cross Section
37-Rb-87
-9.218 To 5.960 %
Max
Ratio
Min
Ratio
Rb087-n.tendl Threshold 407.26 keV
Rb087.jeff3.2 Threshold 407.26 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.1
1.0
0.9
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
37-Rb-87

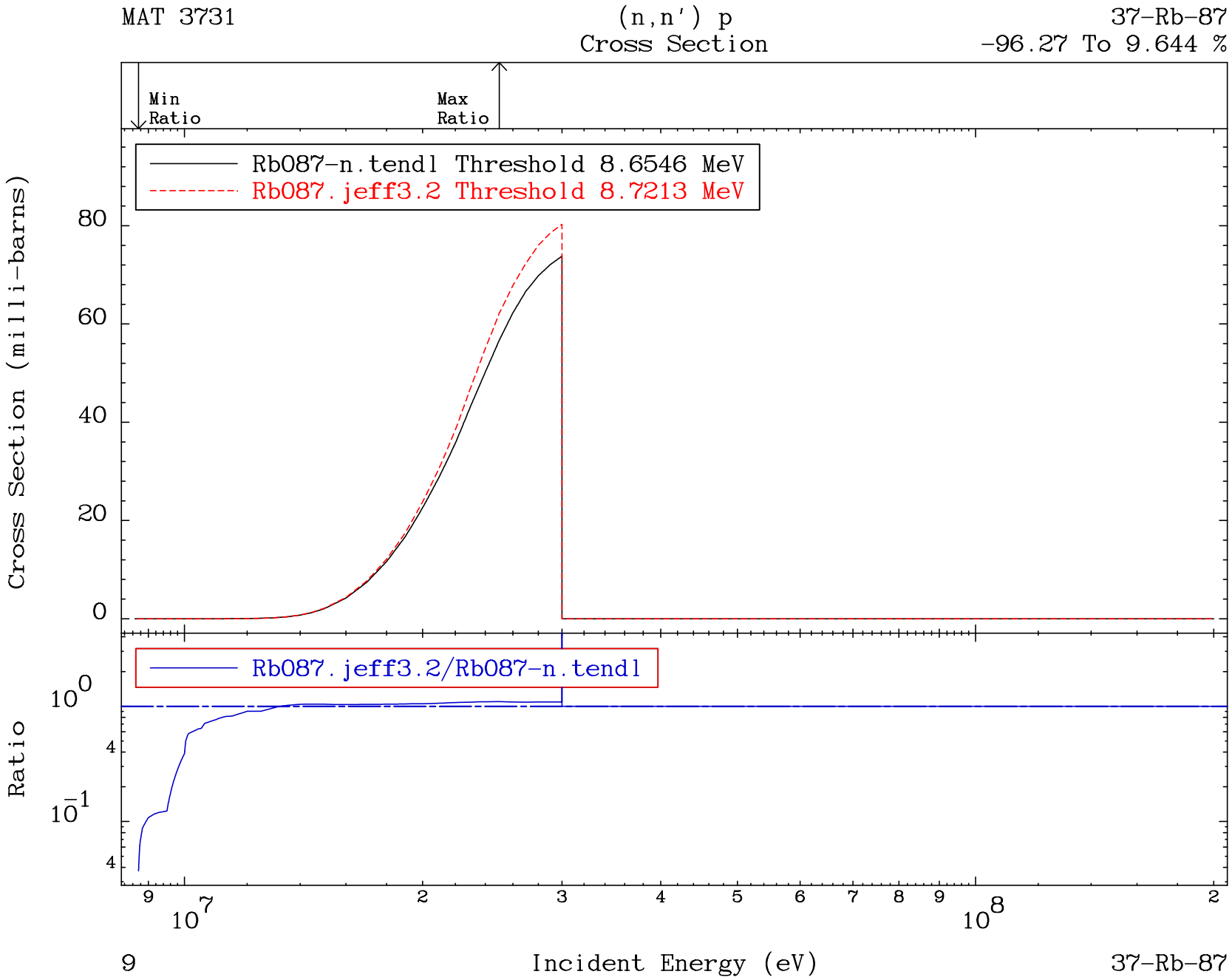

MAT 3731
(n,2n) d
Cross Section
37-Rb-87
-1.677 To 20.25 %
Max
Ratio
Rb087-n.tendl Threshold 23.603 MeV
Rb087.jeff3.2 Threshold 23.645 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
1.1
1.0
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
37-Rb-87

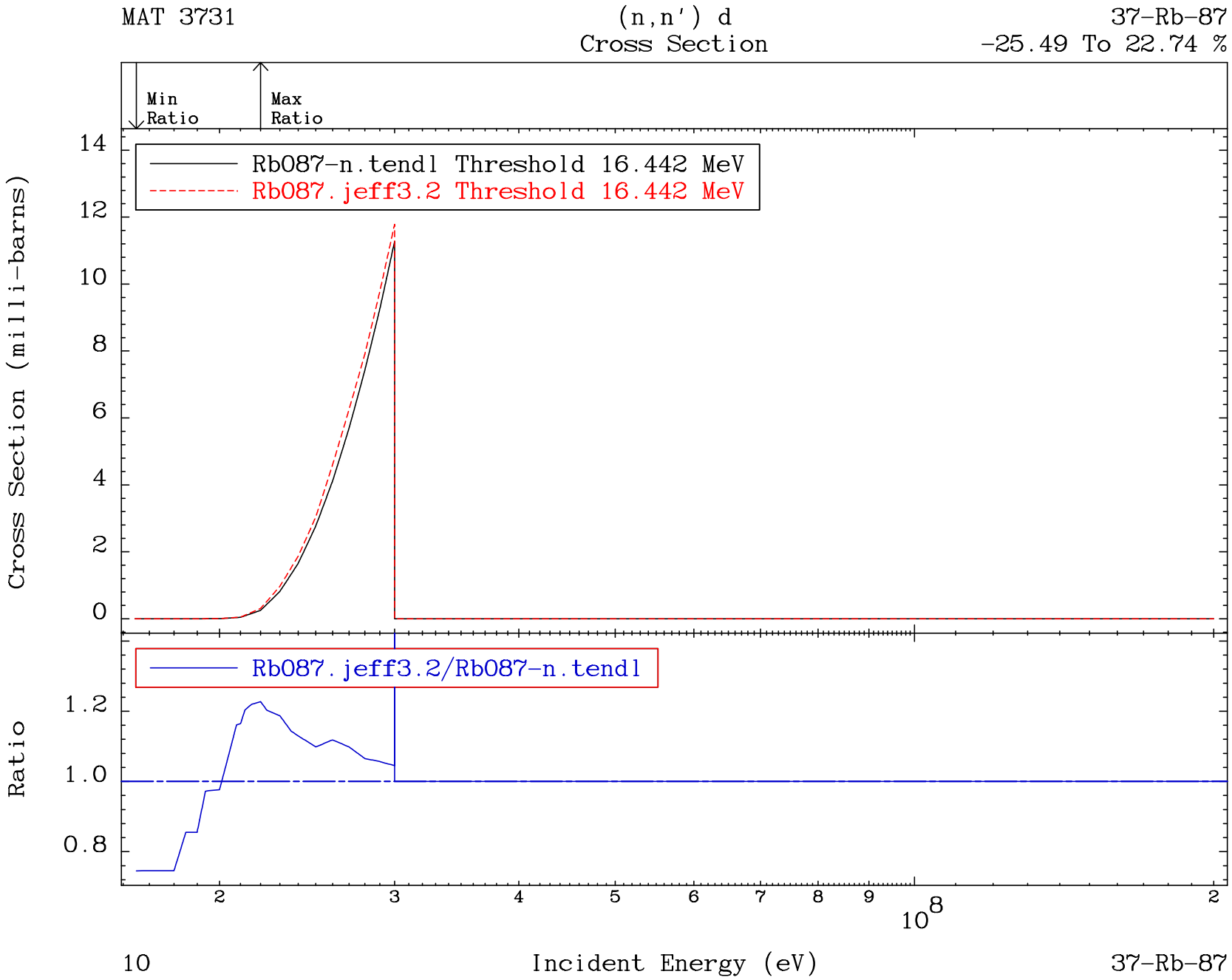

MAT 3731
(n,2n)
Cross Section
37-Rb-87
-3.031 To 21.31 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 10.037 MeV
Rb087.jeff3.2 Threshold 10.037 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
1.1
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
37-Rb-87

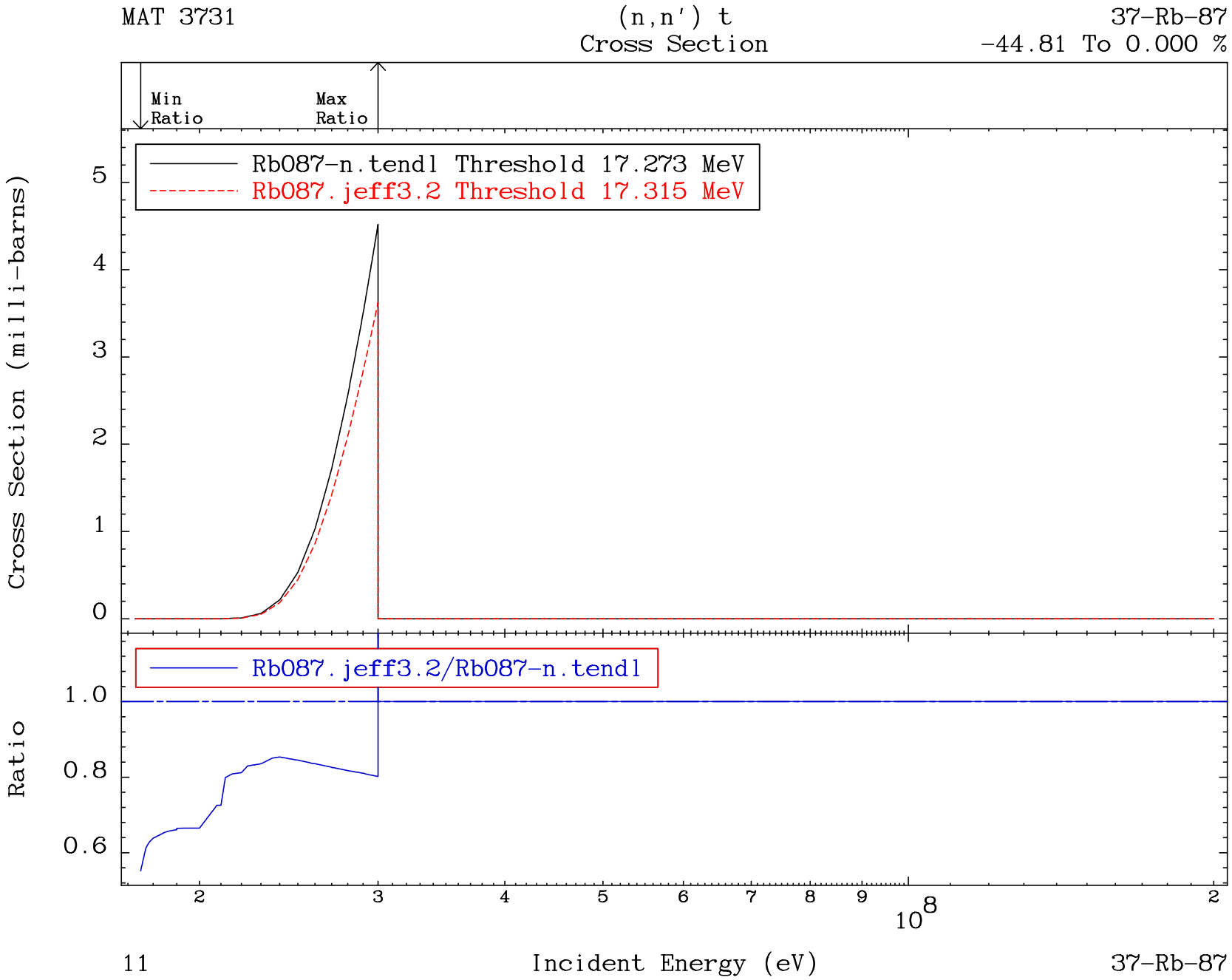

MAT 3731
(n,3n)
Cross Section
37-Rb-87
-1.548 To 47.65 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 18.756 MeV
Rb087.jeff3.2 Threshold 18.789 MeV
Cross Section (milli-barns)
800
600
400
200
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.6
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
37-Rb-87

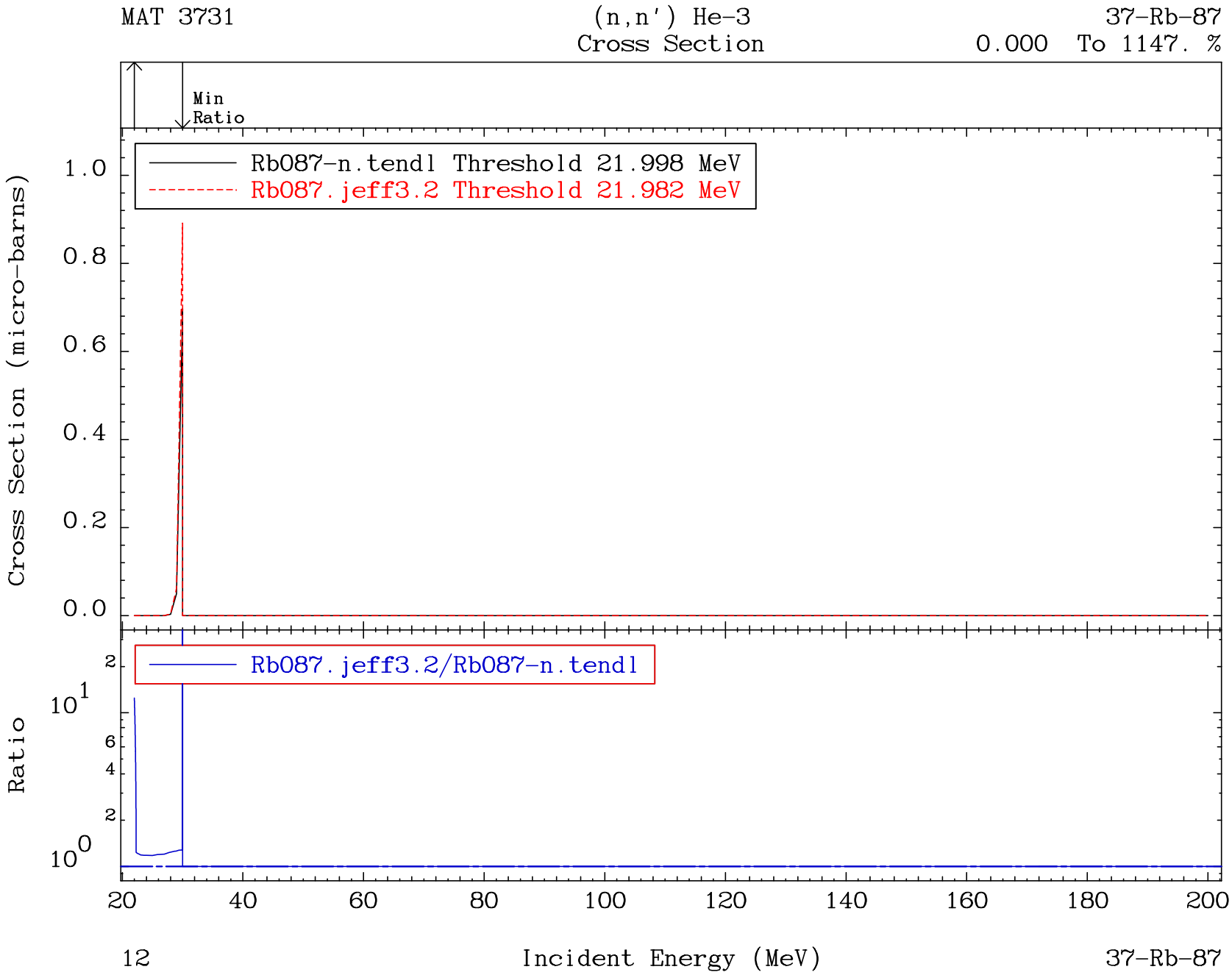

MAT 3731
(n,n') α
Cross Section
37-Rb-87
-80.23 To 52.86 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 8.1023 MeV
Rb087.jeff3.2 Threshold 8.1068 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.8
1.2
0.6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
37-Rb-87

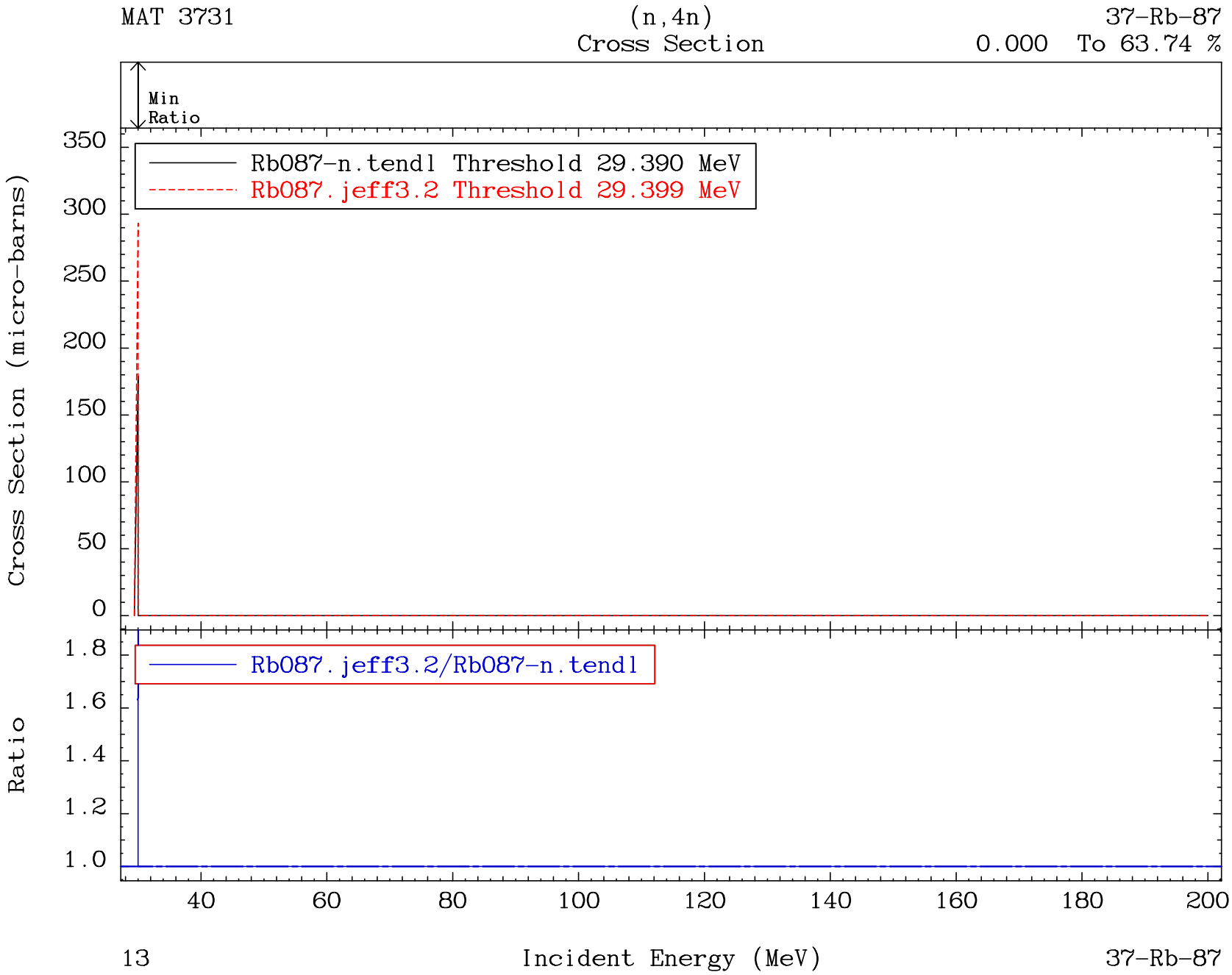

MAT 3731
(n,2n) α
Cross Section
37-Rb-87
-99.98 To 263.7 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 17.801 MeV
Rb087.jeff3.2 Threshold 17.801 MeV
Cross Section (milli-barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
8
37-Rb-87

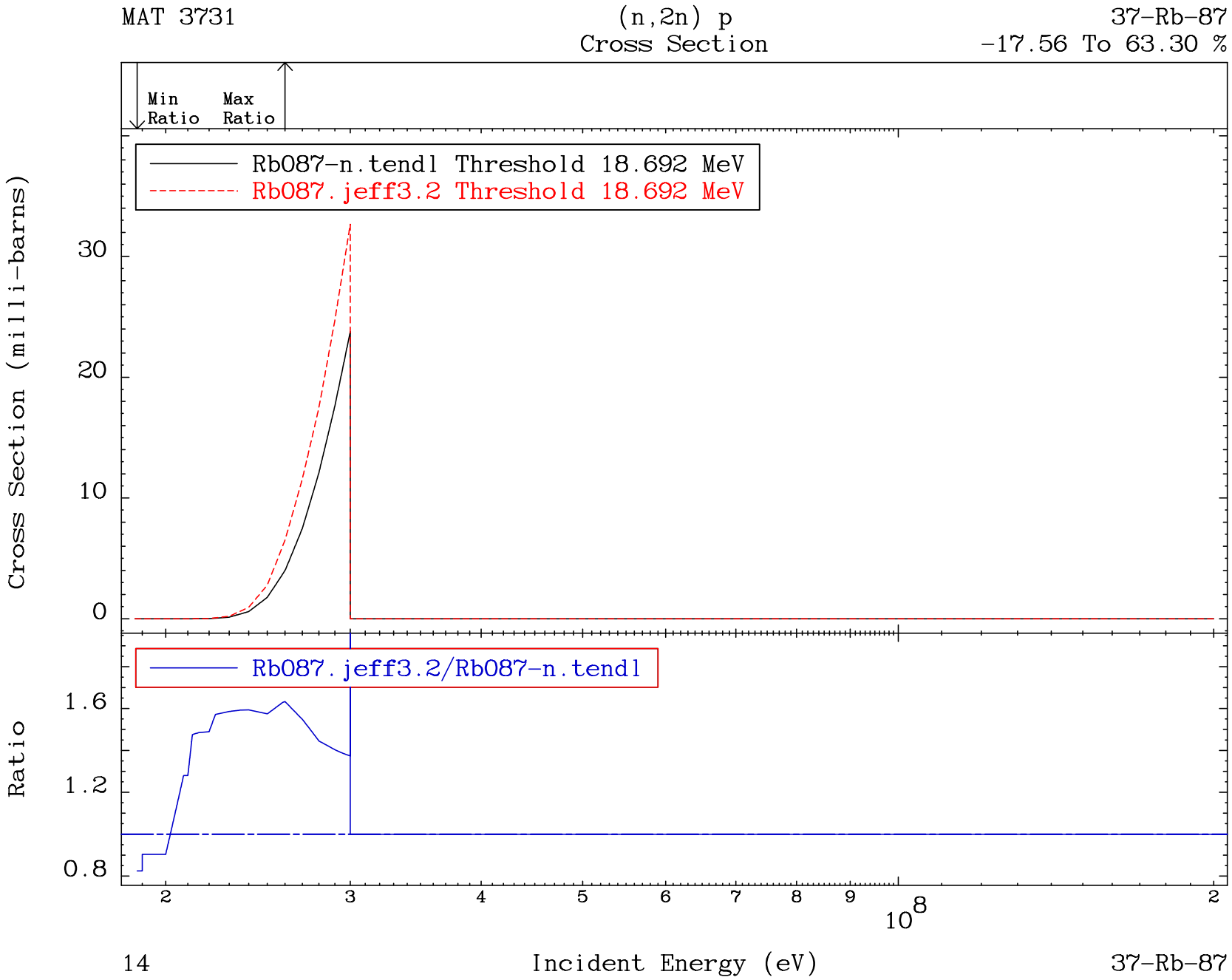

MAT 3731
(n,n') p
Cross Section
37-Rb-87
-96.27 To 9.644 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 8.6546 MeV
Rb087.jeff3.2 Threshold 8.7213 MeV
Cross Section (milli-barns)
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^0
4
10^-1
4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
37-Rb-87

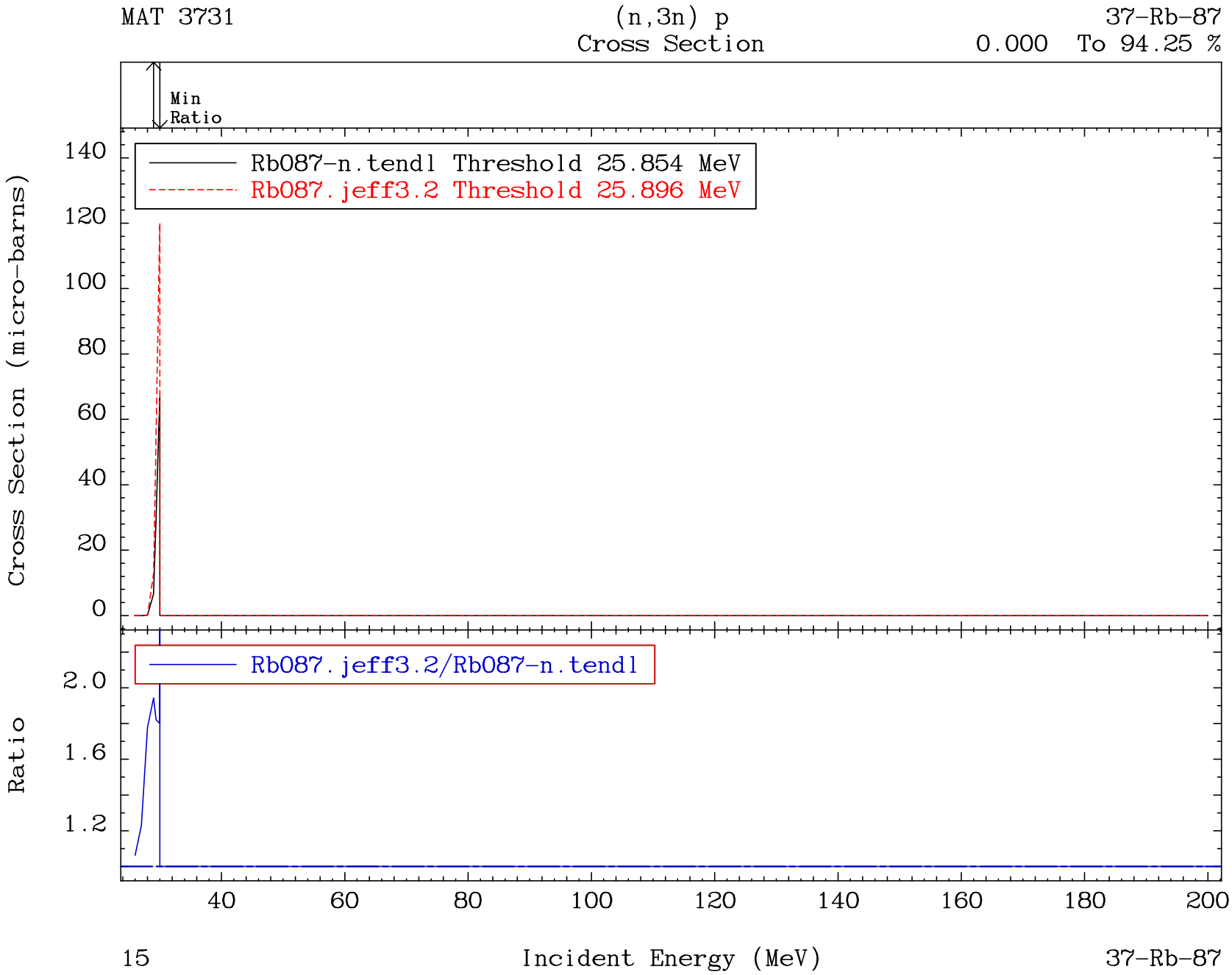

MAT 3731
(n,n') d
Cross Section
37-Rb-87
-25.49 To 22.74 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 16.442 MeV
Rb087.jeff3.2 Threshold 16.442 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
37-Rb-87

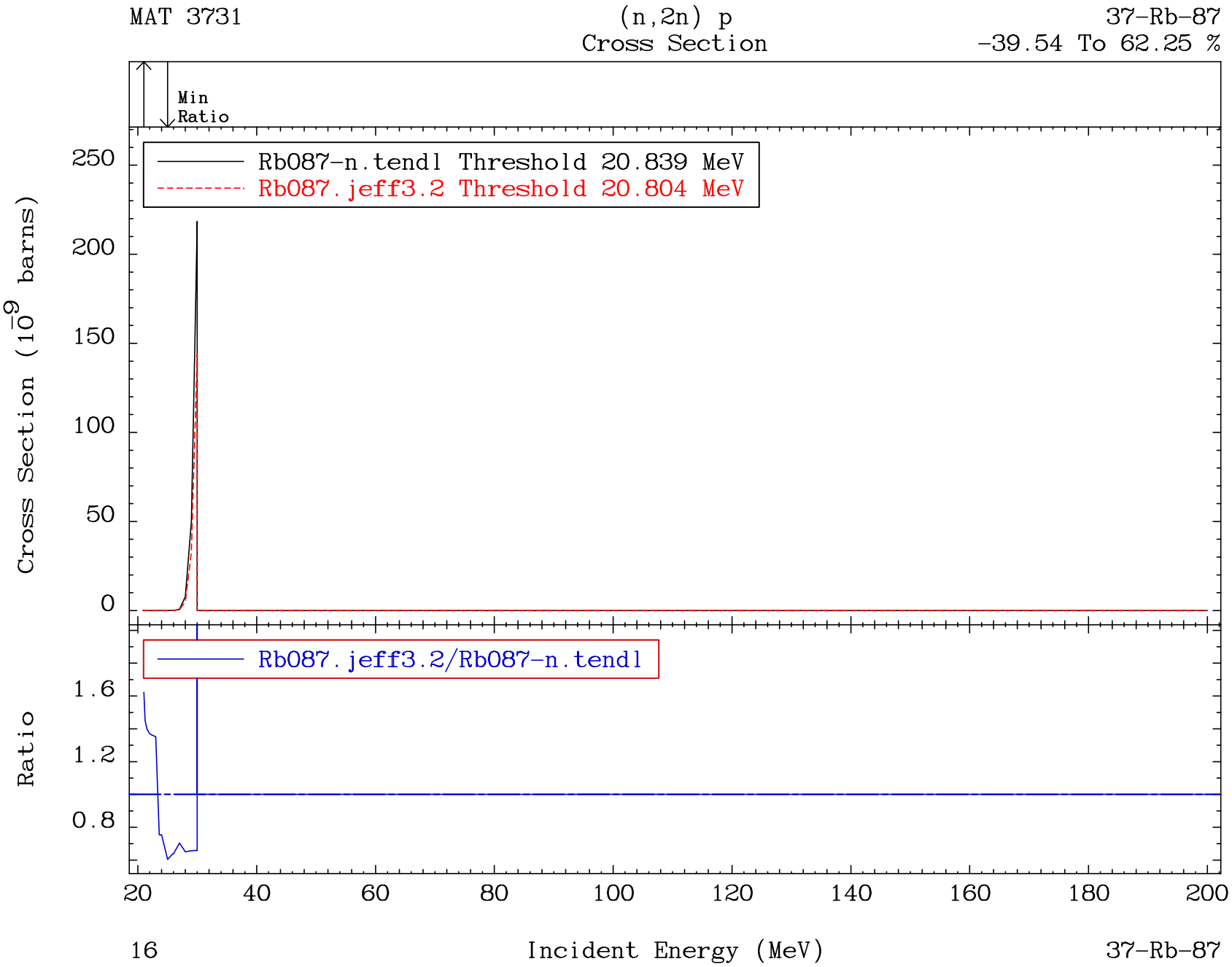

MAT 3731
(n,n') t
Cross Section
37-Rb-87
-44.81 To 0.000 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 17.273 MeV
Rb087.jeff3.2 Threshold 17.315 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
Rb087.jeff3.2/Rb087-n.tendl
Ratio
0.6
0.8
1.0
2
3
4
5
6
7
8
9
2
10^8
11
Incident Energy (eV)
37-Rb-87

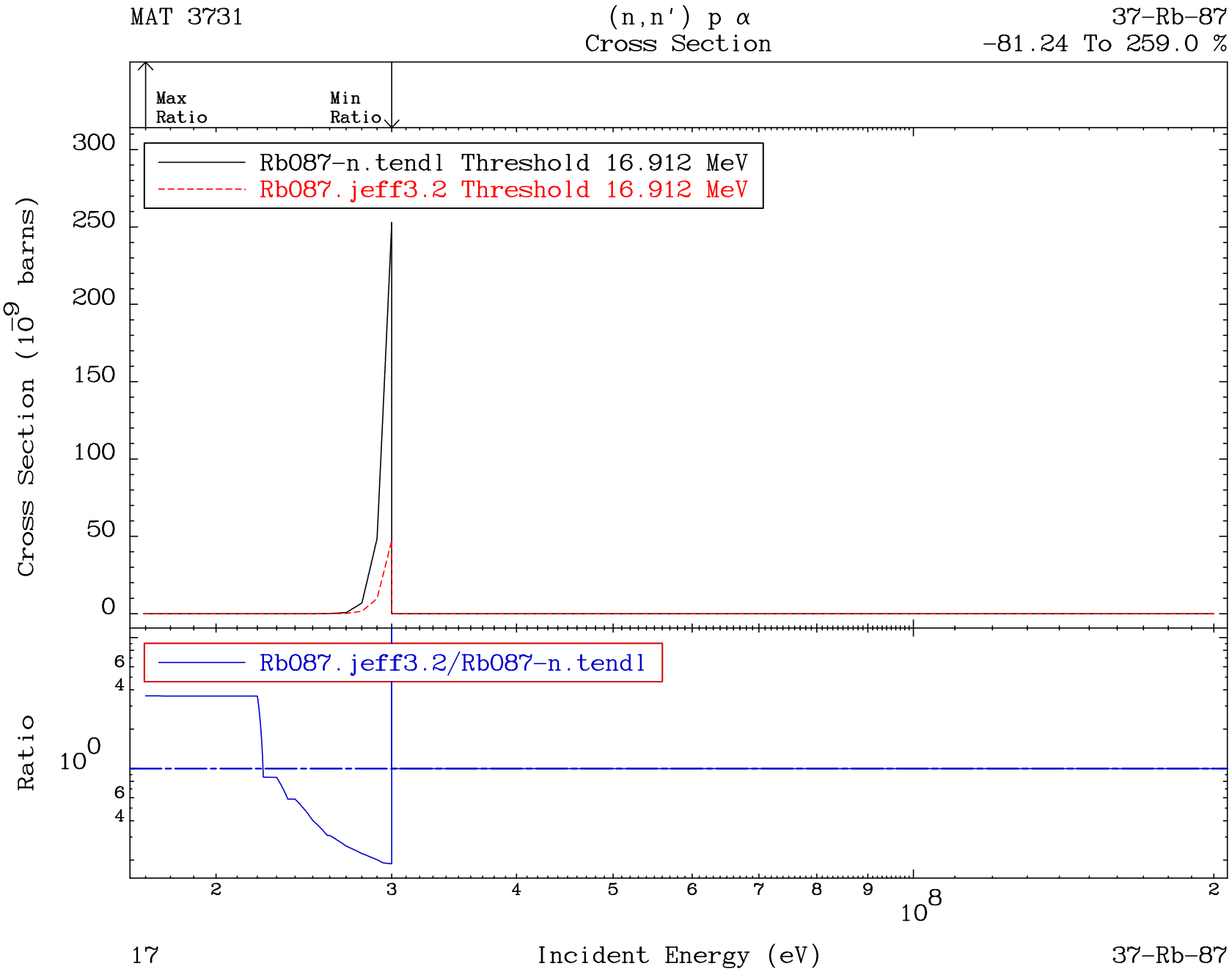

MAT 3731
(n,n') He-3
Cross Section
37-Rb-87
0.000 To 1147. %
Min
Ratio
Rb087-n.tendl Threshold 21.998 MeV
Rb087.jeff3.2 Threshold 21.982 MeV
Cross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
2
10^1
6
4
2
10^0
20
40
60
80
100
120
140
160
180
200
12
Incident Energy (MeV)
37-Rb-87

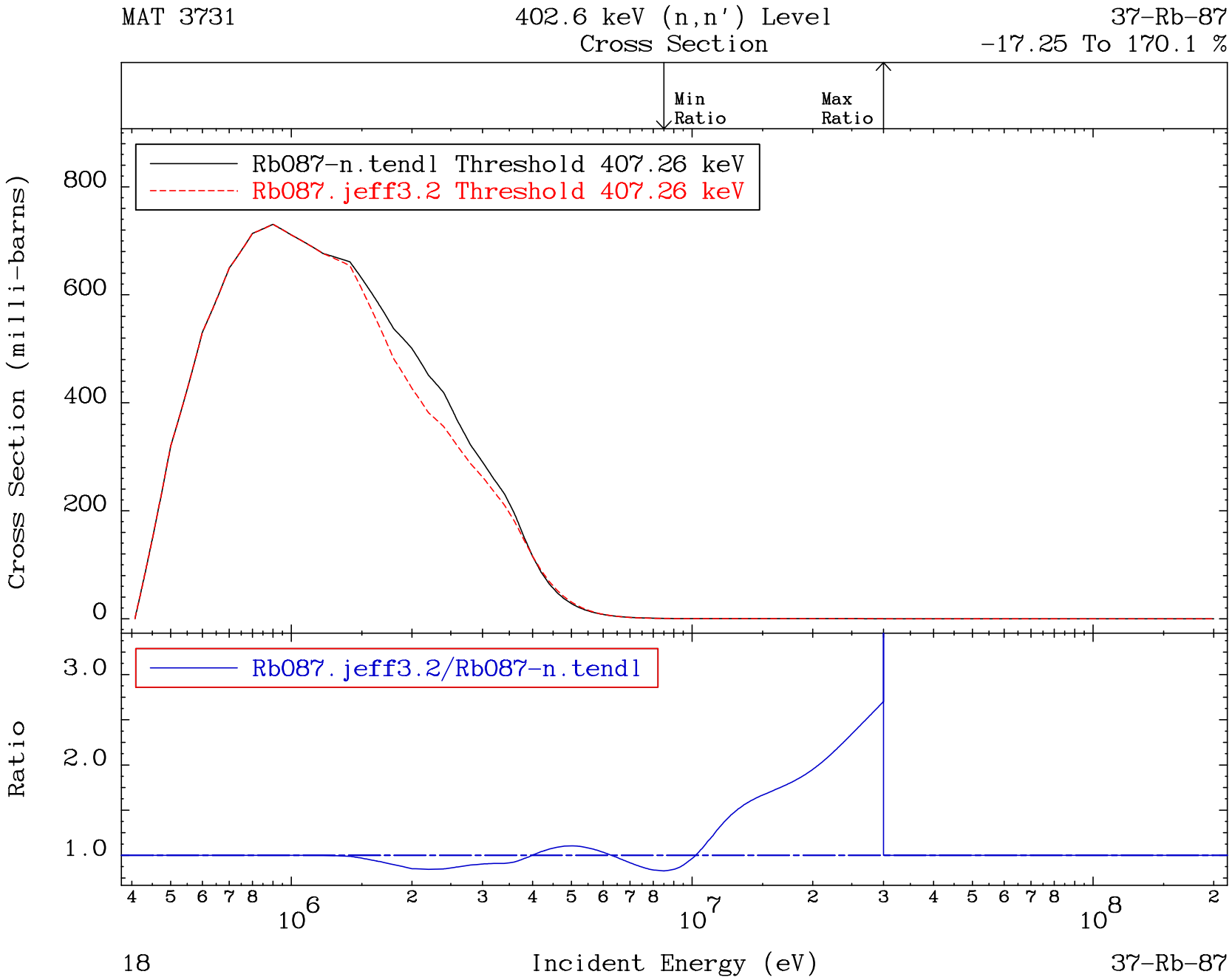

MAT 3731
(n,4n)
Cross Section
37-Rb-87
0.000 To 63.74 %
Min
Ratio
Rb087-n.tendl Threshold 29.390 MeV
Rb087.jeff3.2 Threshold 29.399 MeV
Cross Section (micro-barns)
350
300
250
200
150
100
50
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.8
1.6
1.4
1.2
1.0
40
60
80
100
120
140
160
180
200
13
Incident Energy (MeV)
37-Rb-87

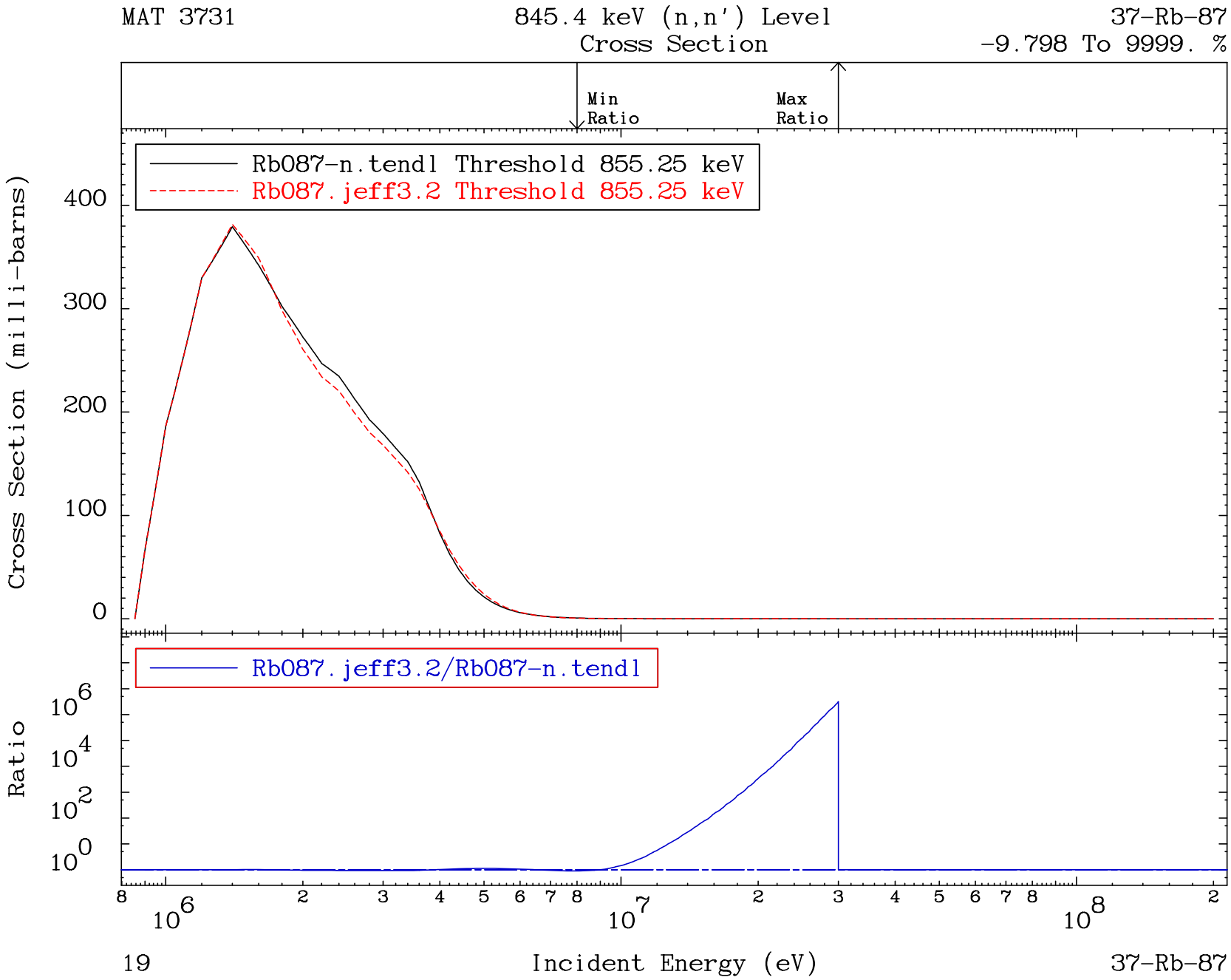

MAT 3731
(n,2n) p
Cross Section
37-Rb-87
-17.56 To 63.30 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 18.692 MeV
Rb087.jeff3.2 Threshold 18.692 MeV
Cross Section (milli-barns)
30
20
10
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.6
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
37-Rb-87

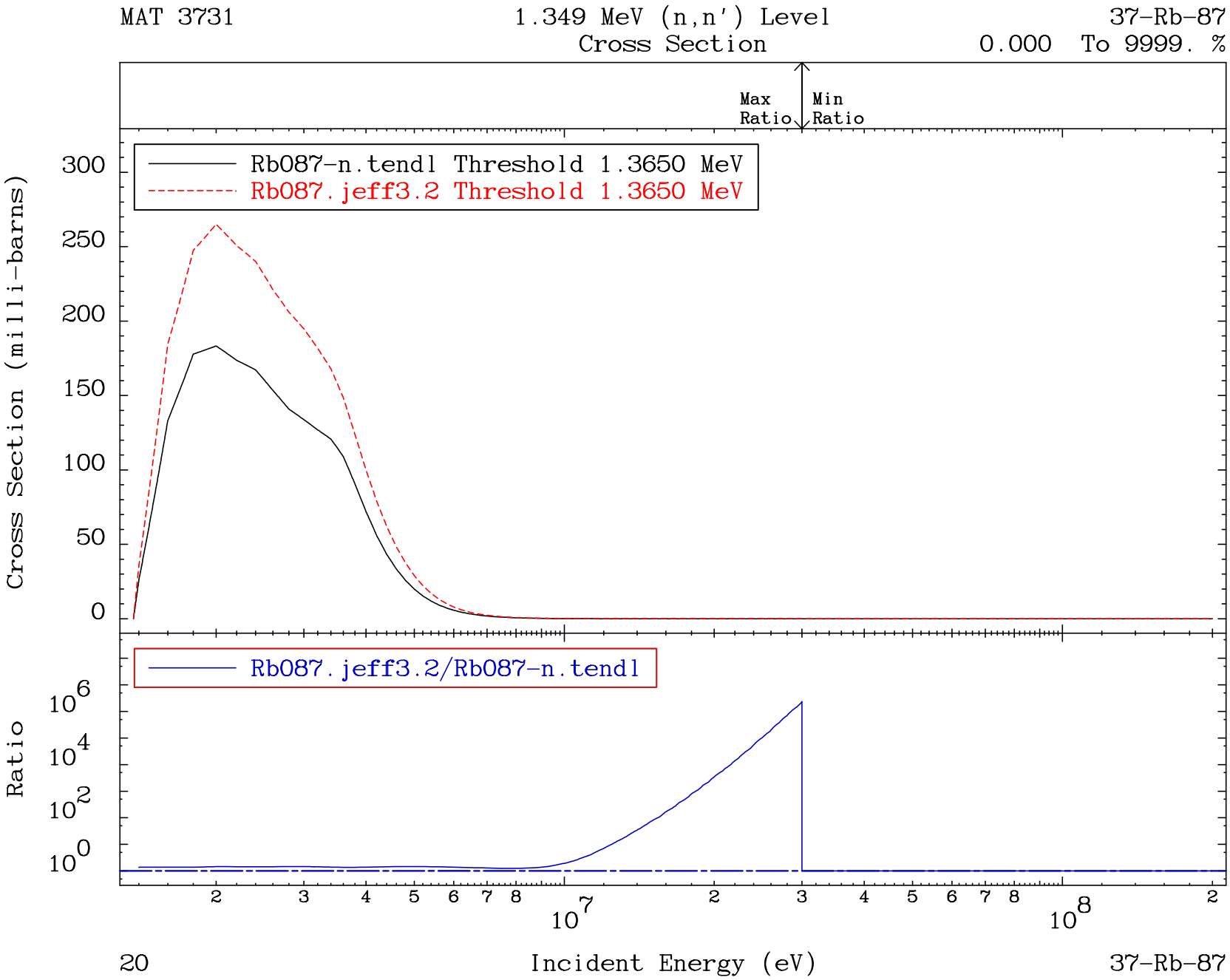

MAT 3731
(n,3n) p
Cross Section
37-Rb-87
0.000 To 94.25 %
Min
Ratio
Rb087-n.tendl Threshold 25.854 MeV
Rb087.jeff3.2 Threshold 25.896 MeV
Cross Section (micro-barns)
140
120
100
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
2.0
1.6
1.2
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
37-Rb-87

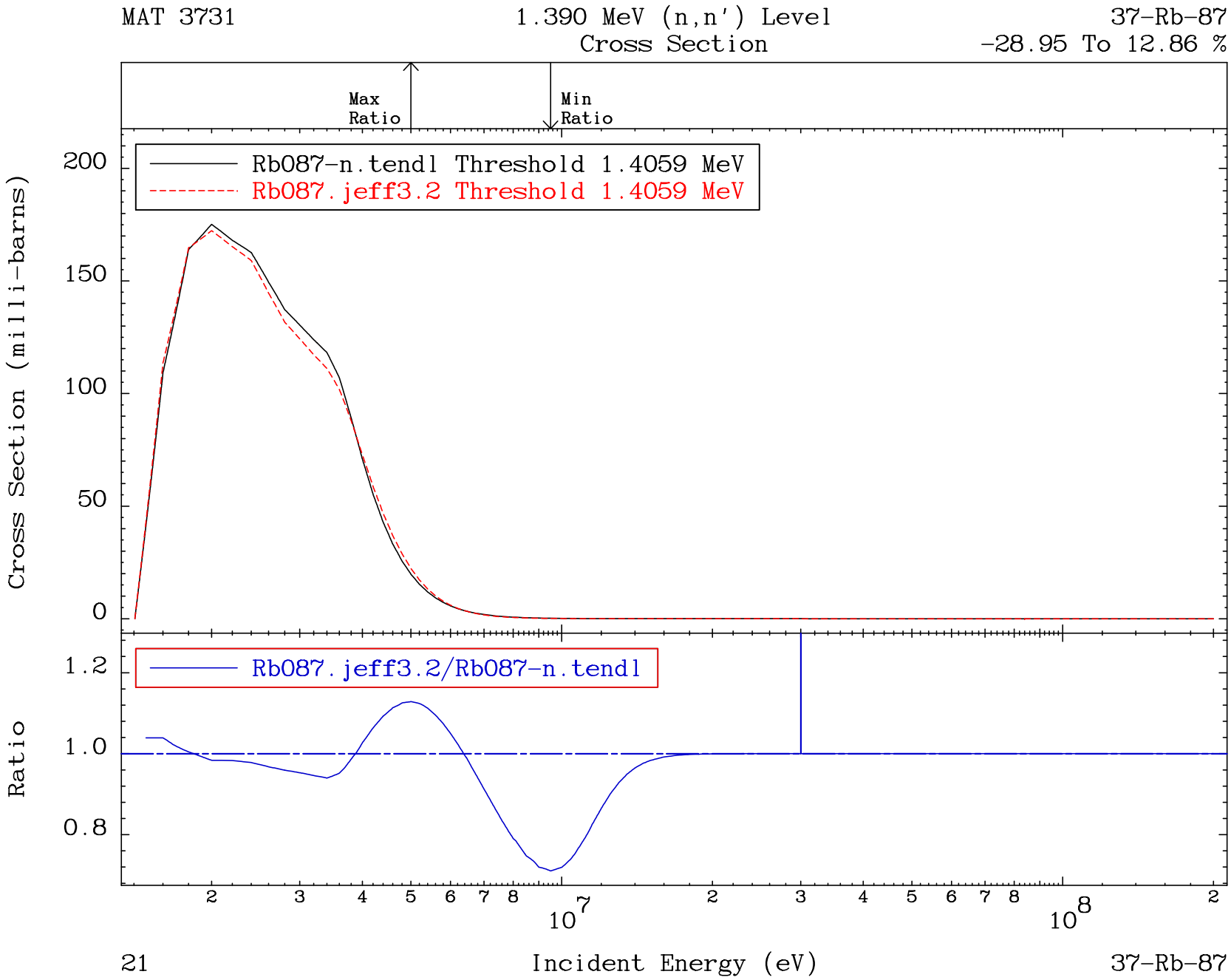

MAT 3731
(n,2n) p
Cross Section
37-Rb-87
-39.54 To 62.25 %
Min
Ratio
Rb087-n.tendl Threshold 20.839 MeV
Rb087.jeff3.2 Threshold 20.804 MeV
Cross Section (10^{-9} barns)
250
200
150
100
50
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.6
1.2
0.8
20
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
37-Rb-87

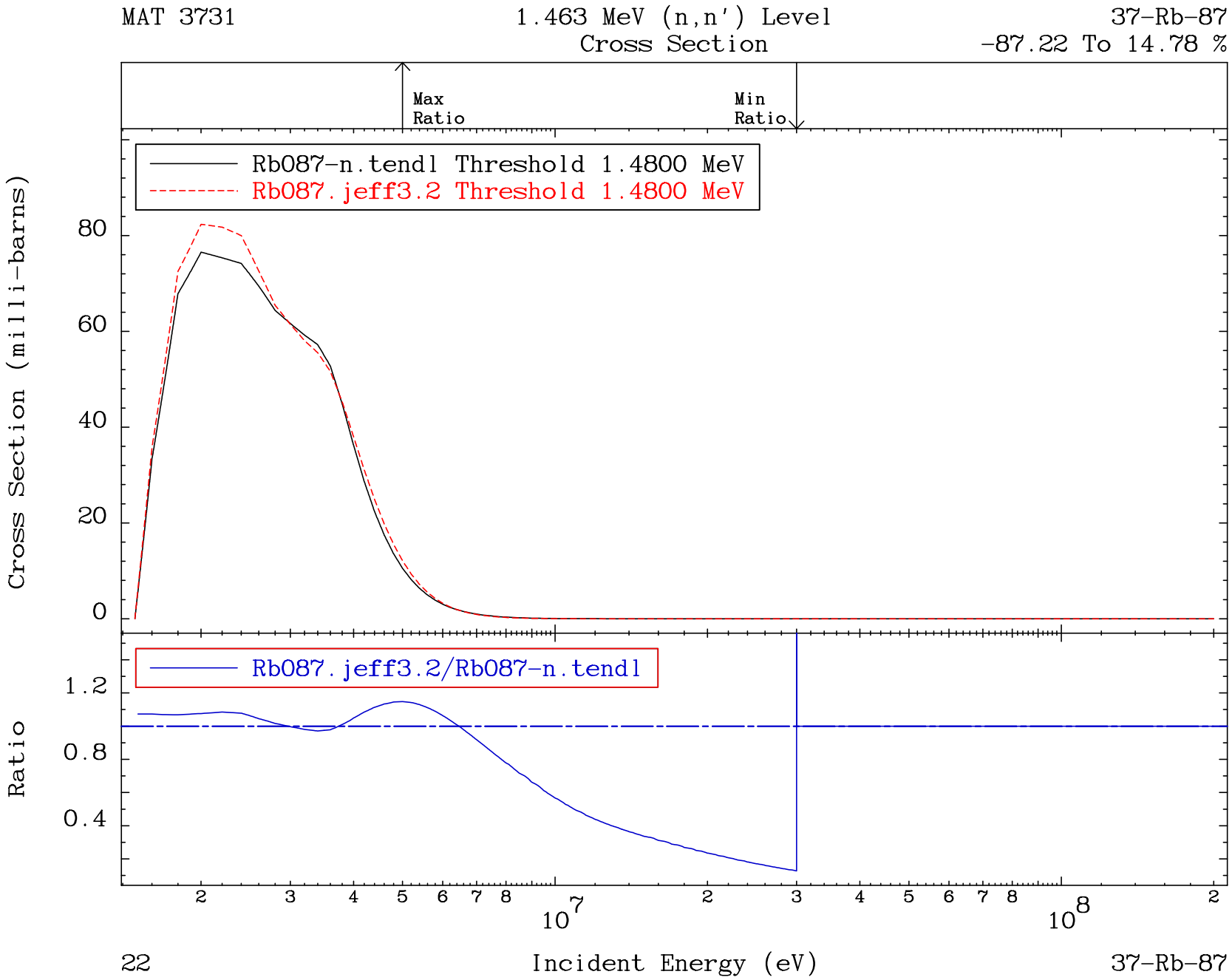

MAT 3731
(n,n') p α
Cross Section
37-Rb-87
-81.24 To 259.0 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 16.912 MeV
Rb087.jeff3.2 Threshold 16.912 MeV
Cross Section (10^{-9} barns)
300
250
200
150
100
50
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
6
4
10^{0}
6
4
2
3
4
5
6
7
8
9
10^{8}
2
17
Incident Energy (eV)
37-Rb-87

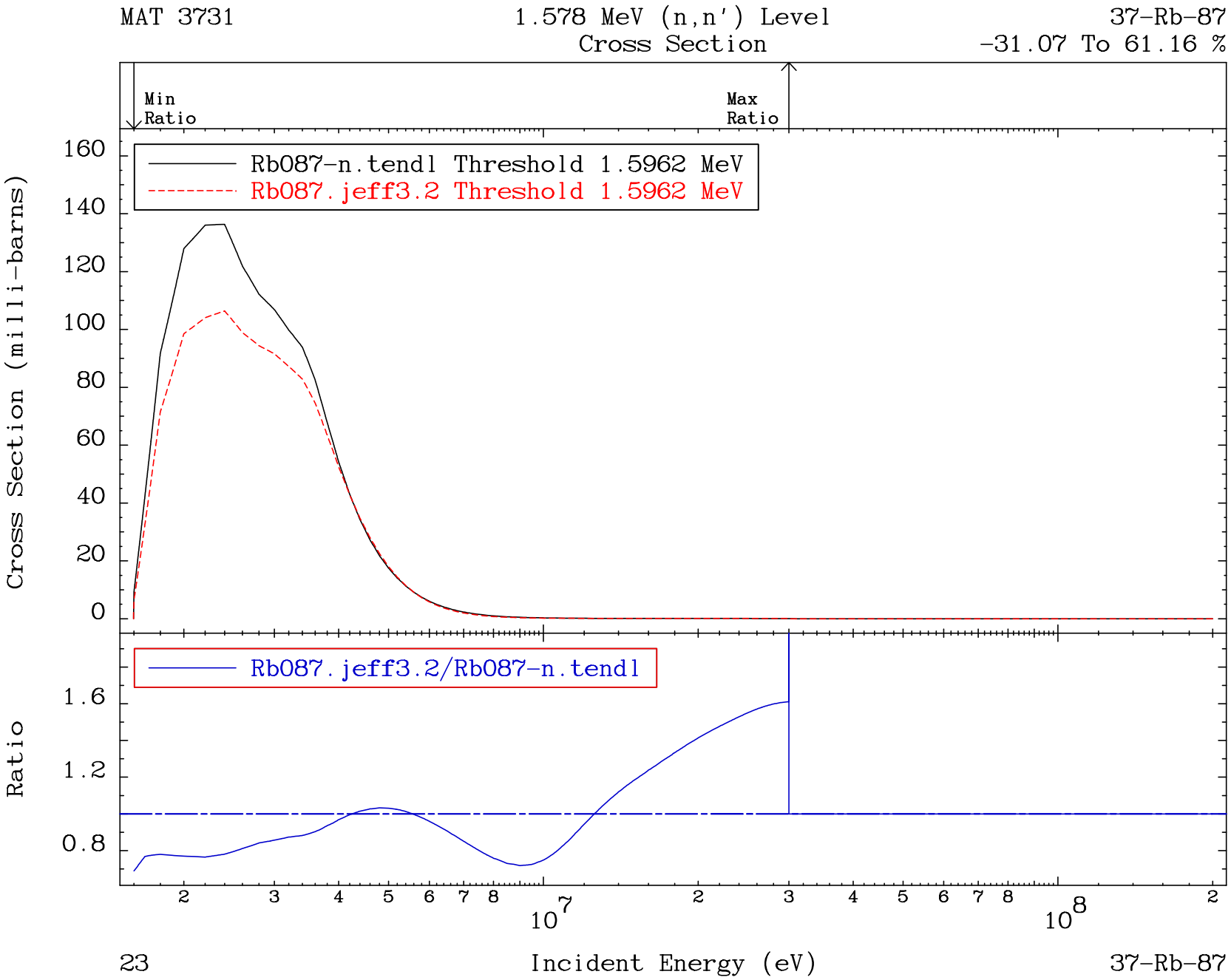

MAT 3731
402.6 keV (n,n') Level
Cross Section
37-Rb-87
-17.25 To 170.1 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 407.26 keV
Rb087.jeff3.2 Threshold 407.26 keV
Cross Section (milli-barns)
800
600
400
200
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
3.0
2.0
1.0
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
37-Rb-87

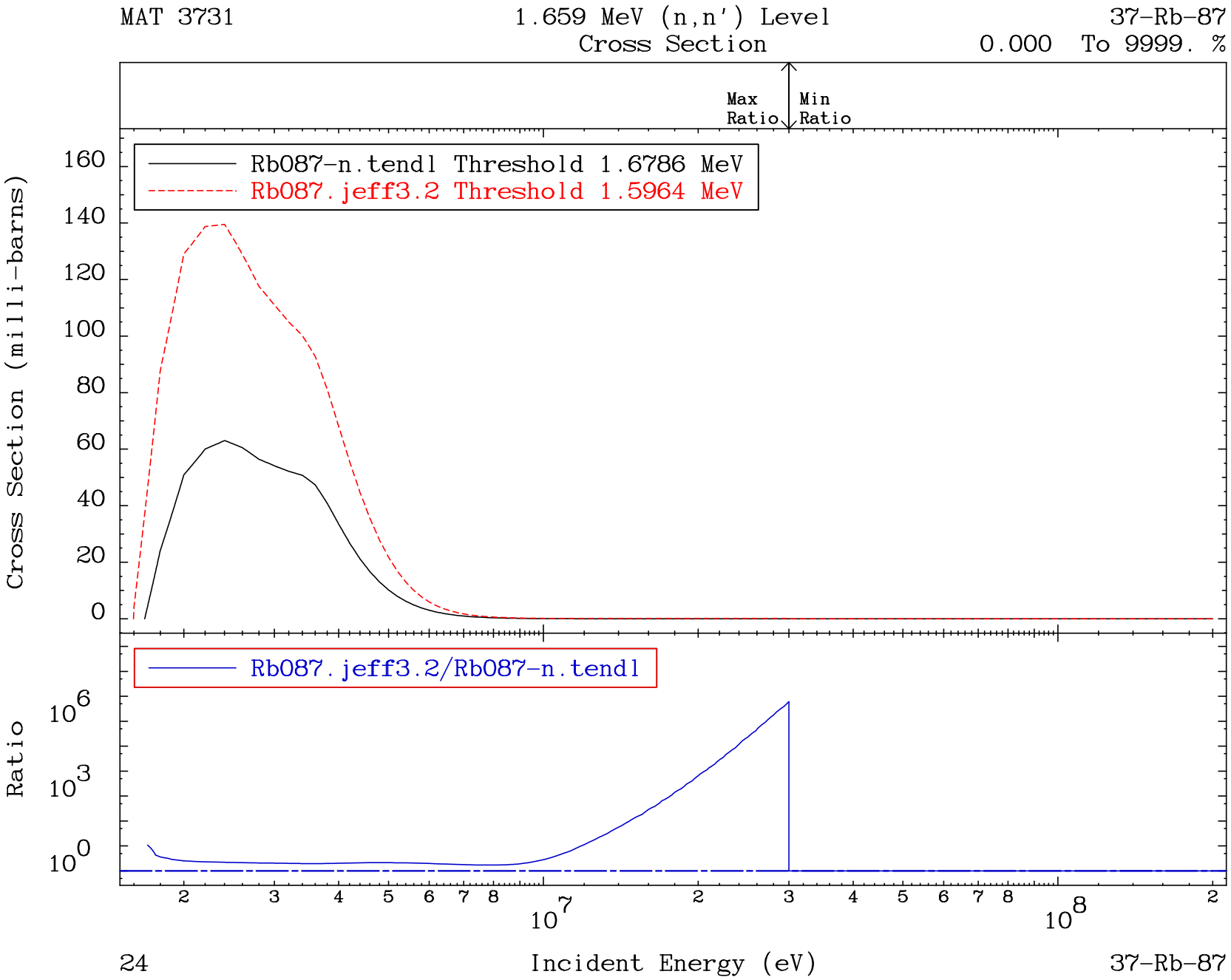

MAT 3731
845.4 keV (n,n') Level
Cross Section
37-Rb-87
-9.798 To 9999. %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 855.25 keV
Rb087.jeff3.2 Threshold 855.25 keV
Cross Section (milli-barns)
400
300
200
100
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^6
10^4
10^2
10^0
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
37-Rb-87

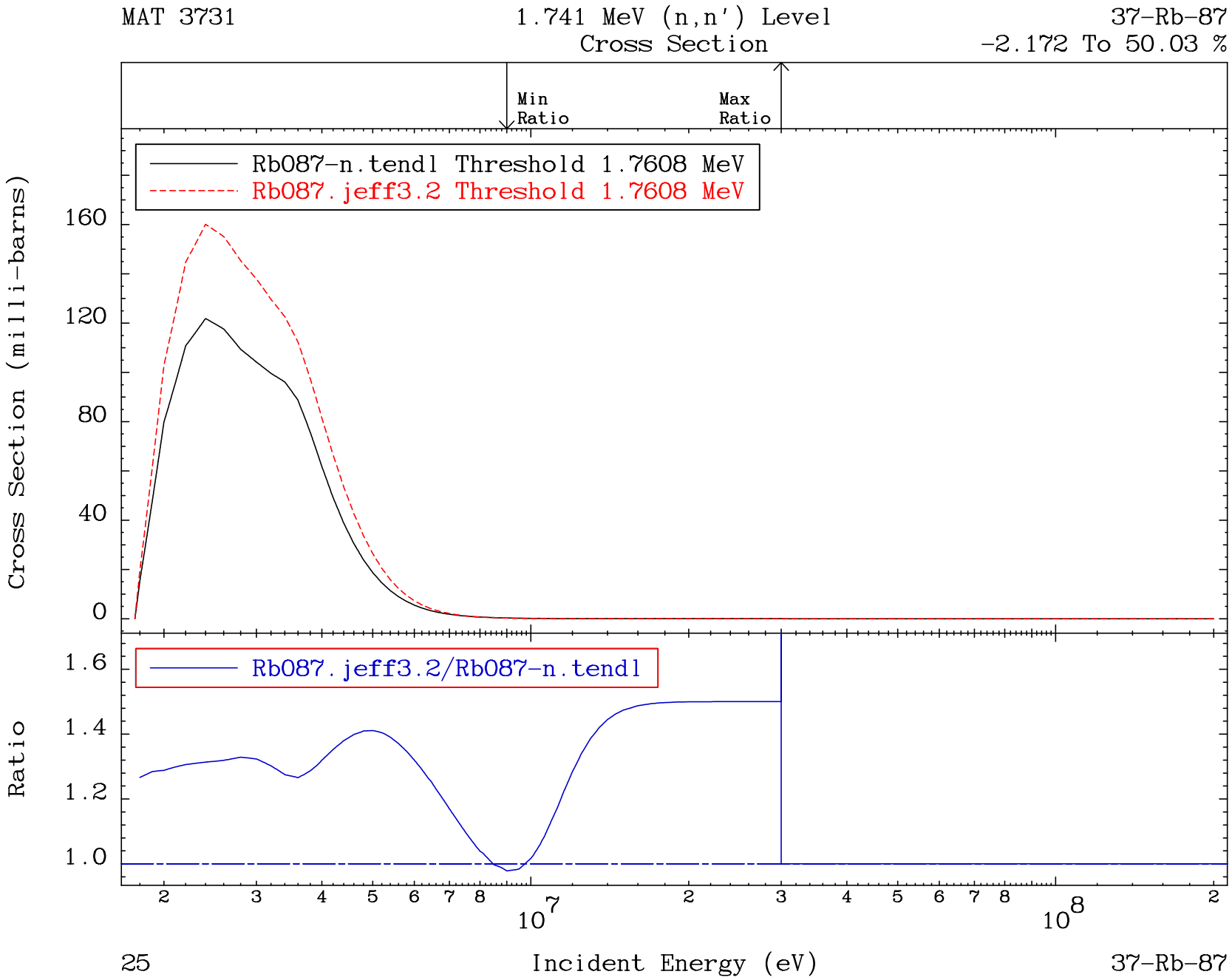

MAT 3731
1.349 MeV (n,n') Level
Cross Section
37-Rb-87
0.000 To 9999. %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 1.3650 MeV
Rb087.jeff3.2 Threshold 1.3650 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^6
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
37-Rb-87

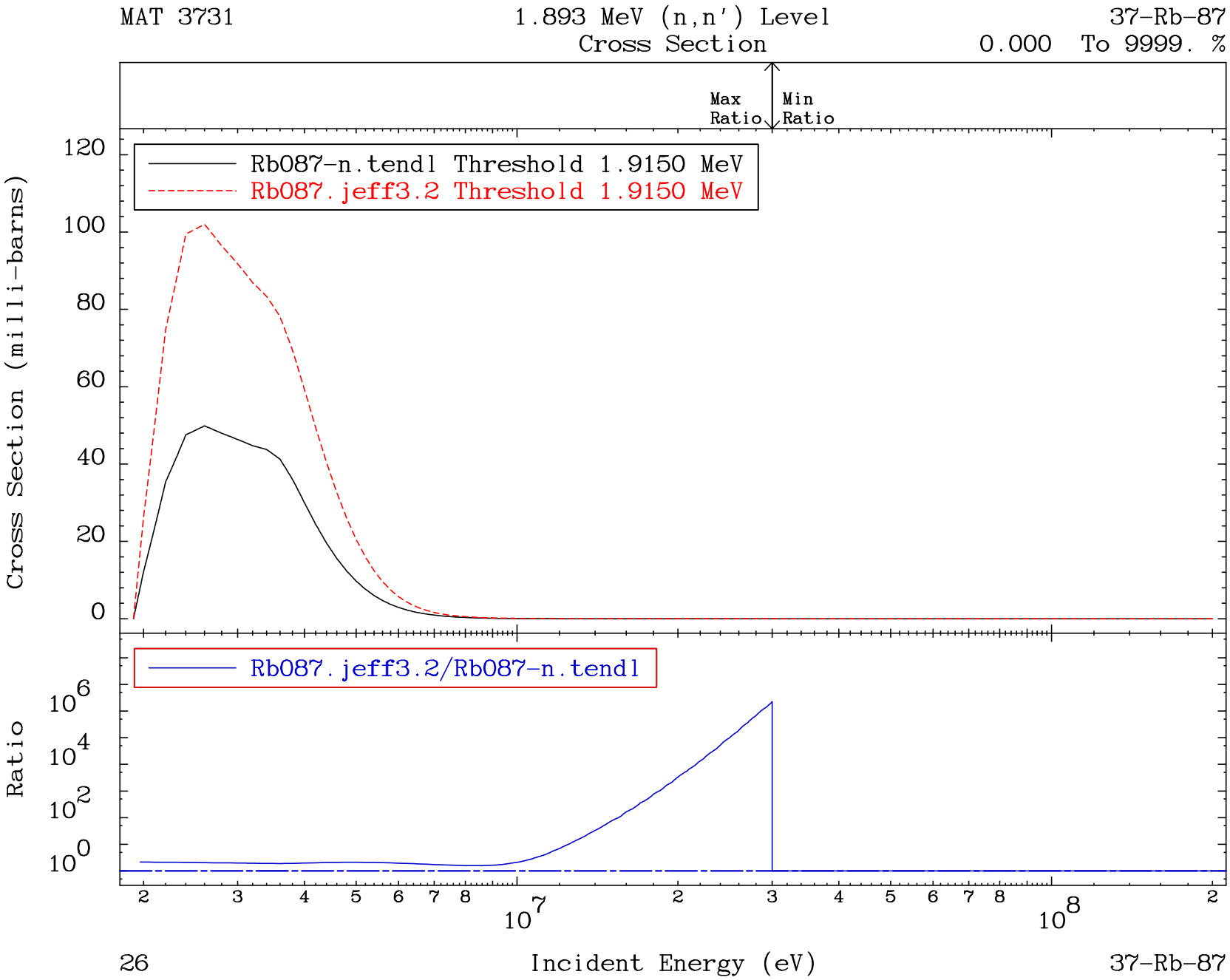

MAT 3731
1.390 MeV (n,n') Level
Cross Section
37-Rb-87
-28.95 To 12.86 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 1.4059 MeV
Rb087.jeff3.2 Threshold 1.4059 MeV
Cross Section (milli-barns)
200
150
100
50
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
1.0
0.8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
37-Rb-87

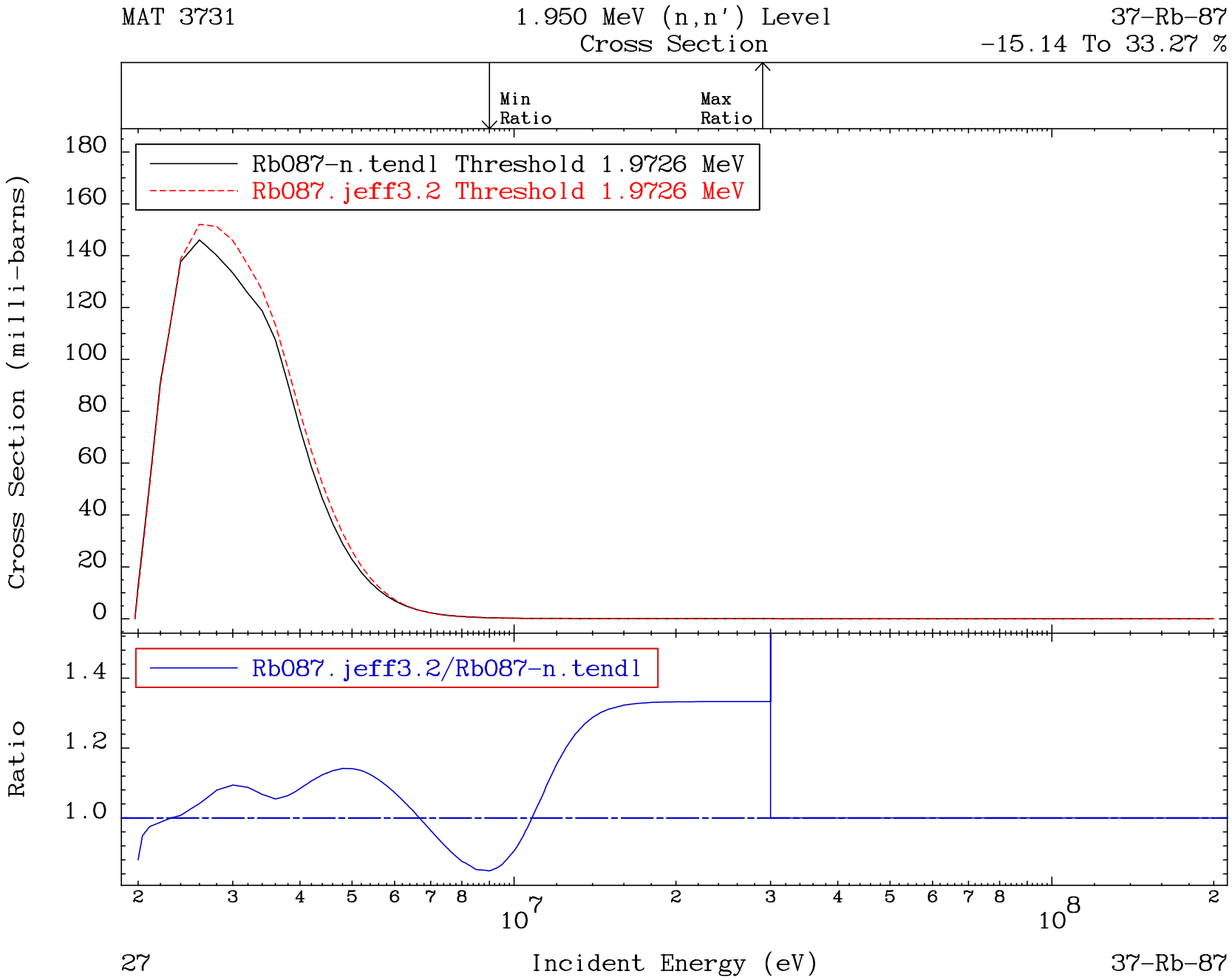

MAT 3731
1.463 MeV (n,n') Level
Cross Section
37-Rb-87
-87.22 To 14.78 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 1.4800 MeV
Rb087.jeff3.2 Threshold 1.4800 MeV
Cross Section (milli-barns)
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
37-Rb-87

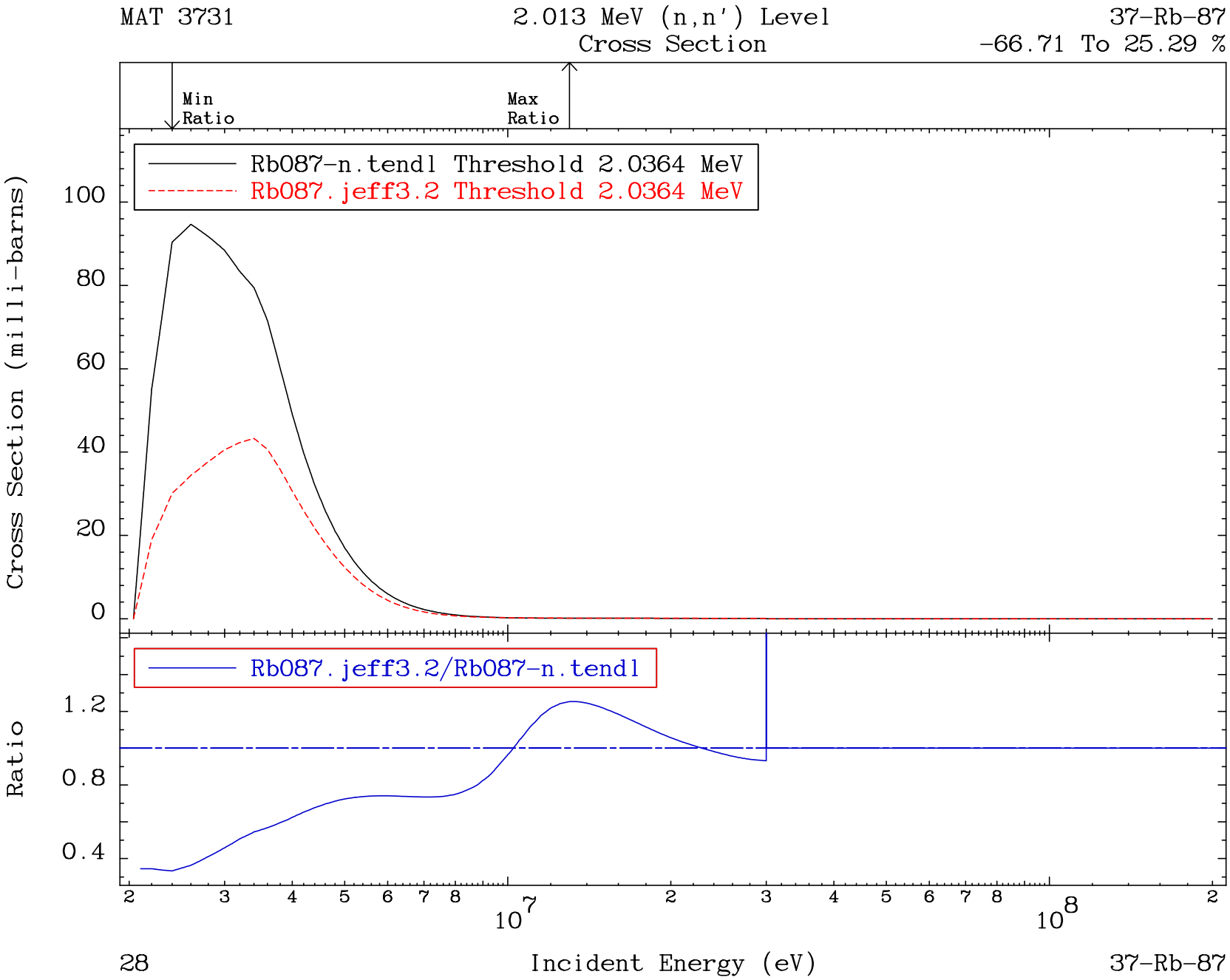

MAT 3731
1.578 MeV (n,n') Level
Cross Section
37-Rb-87
-31.07 To 61.16 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 1.5962 MeV
Rb087.jeff3.2 Threshold 1.5962 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.6
1.2
0.8
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
37-Rb-87

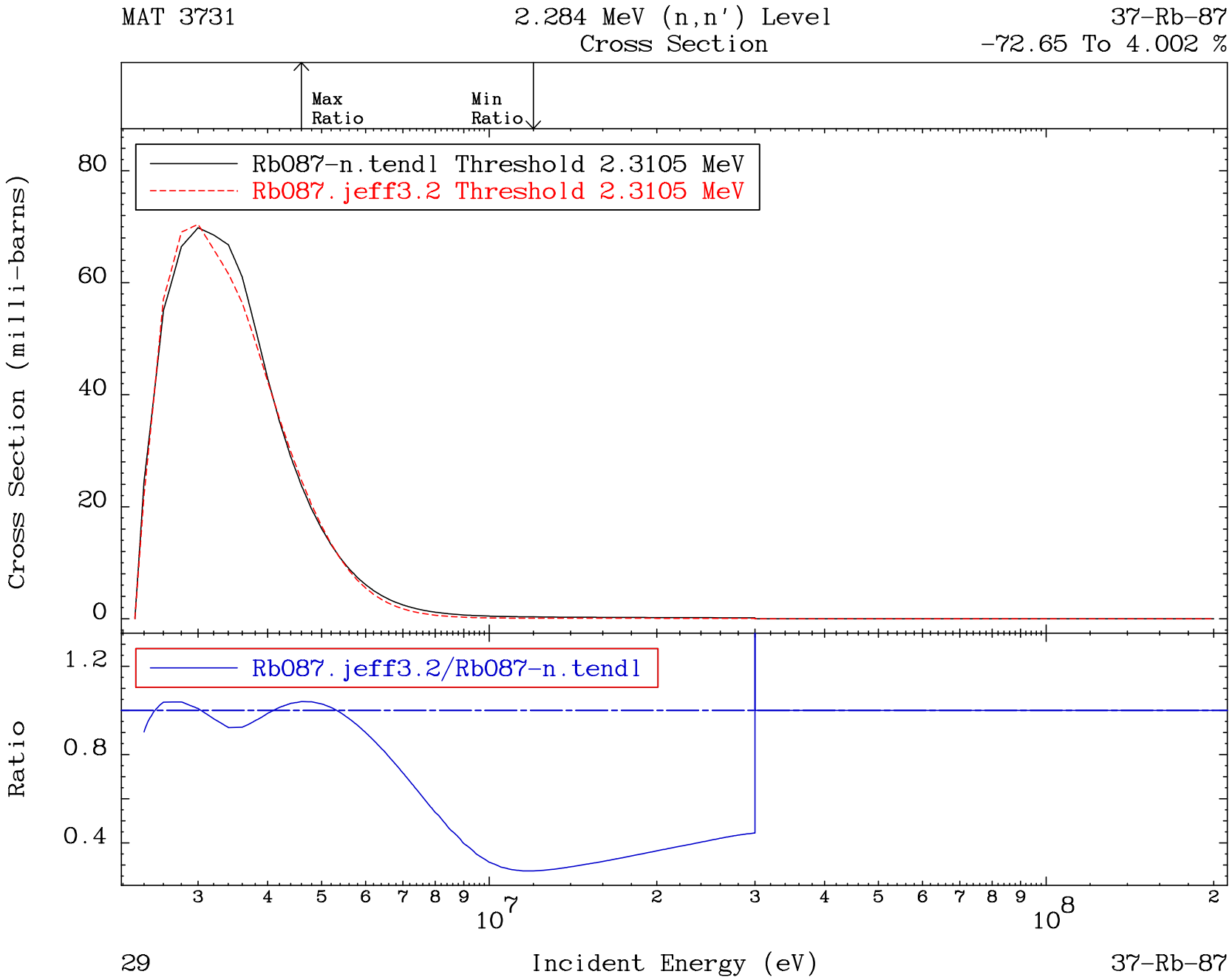

MAT 3731
1.659 MeV (n,n') Level
Cross Section
37-Rb-87
0.000 To 9999. %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 1.6786 MeV
Rb087.jeff3.2 Threshold 1.5964 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
37-Rb-87

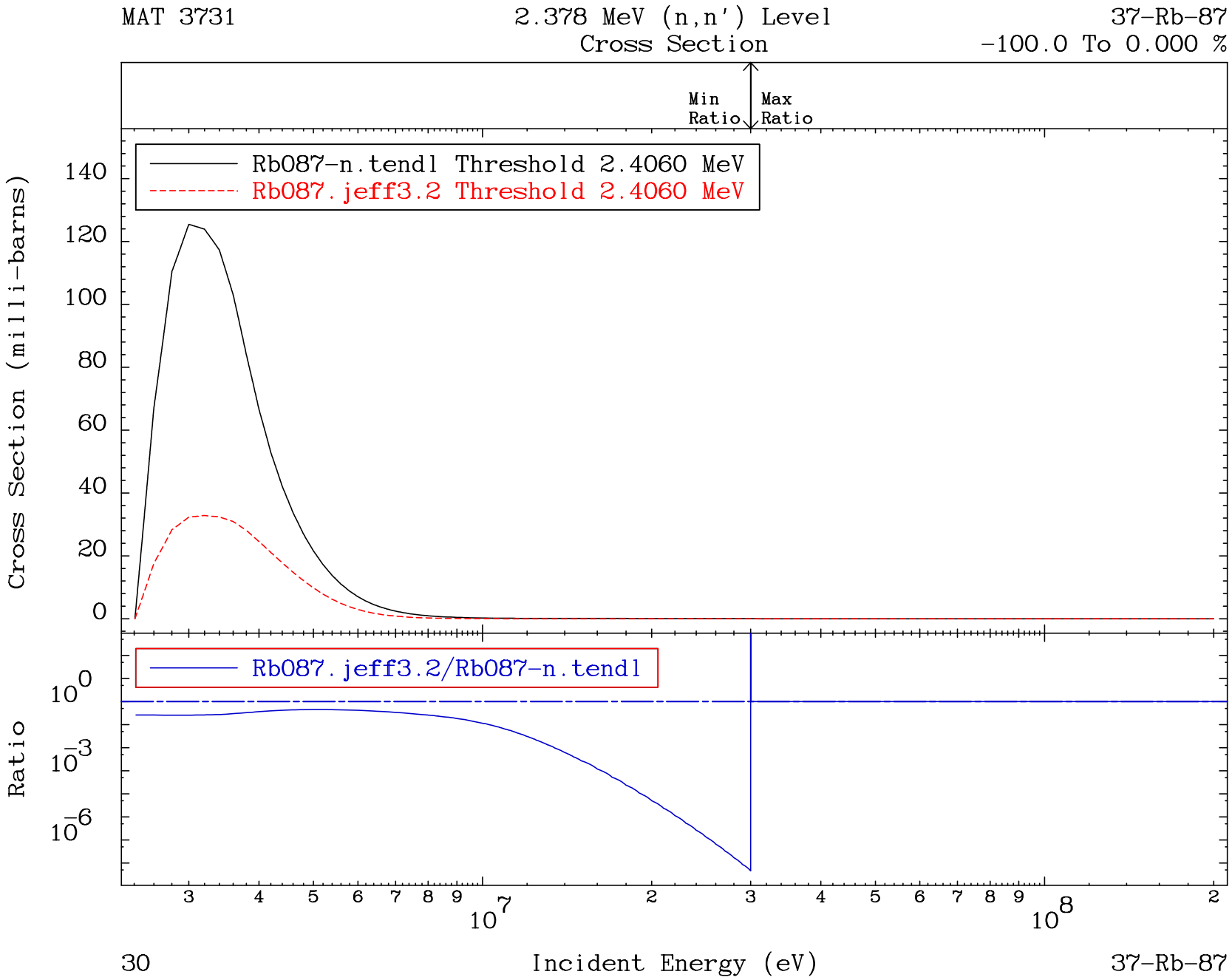

MAT 3731
1.741 MeV (n,n') Level
Cross Section
37-Rb-87
-2.172 To 50.03 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 1.7608 MeV
Rb087.jeff3.2 Threshold 1.7608 MeV
Cross Section (milli-barns)
160
120
80
40
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.6
1.4
1.2
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
37-Rb-87

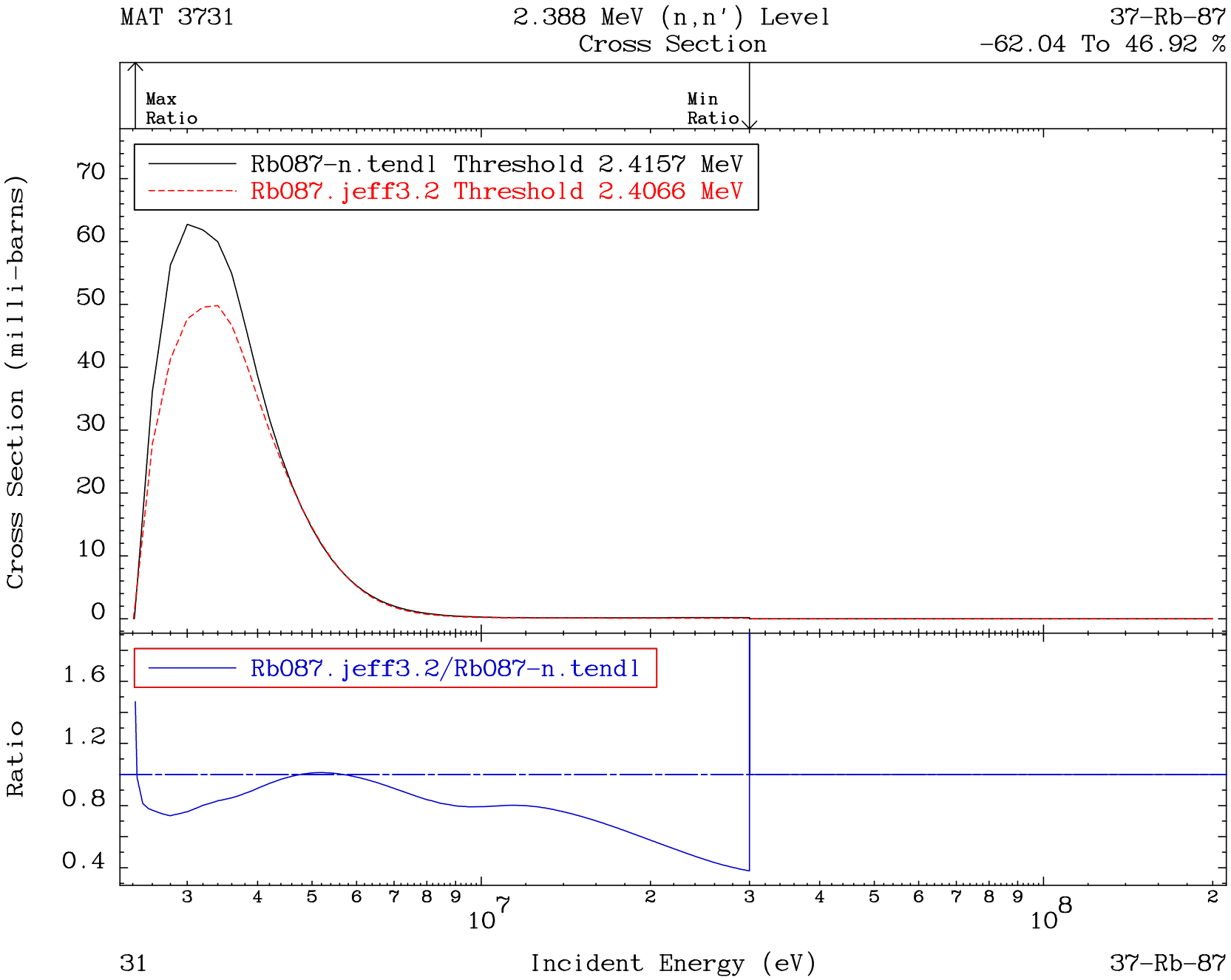

MAT 3731
1.893 MeV (n,n') Level
Cross Section
37-Rb-87
0.000 To 9999. %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 1.9150 MeV
Rb087.jeff3.2 Threshold 1.9150 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^6
10^4
10^2
10^0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
37-Rb-87

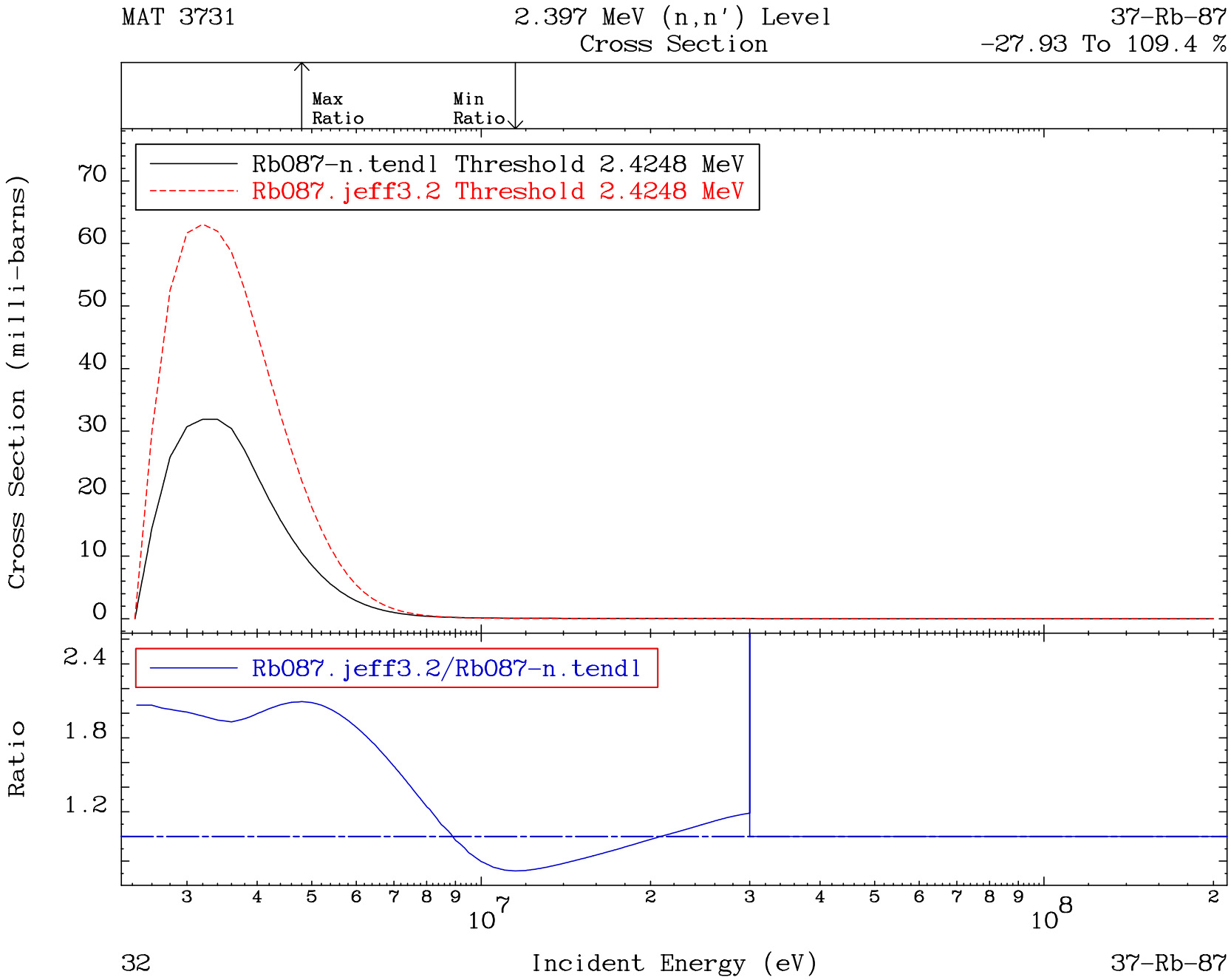

MAT 3731
1.950 MeV (n,n') Level
Cross Section
37-Rb-87
-15.14 To 33.27 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 1.9726 MeV
Rb087.jeff3.2 Threshold 1.9726 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.4
1.2
1.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
37-Rb-87

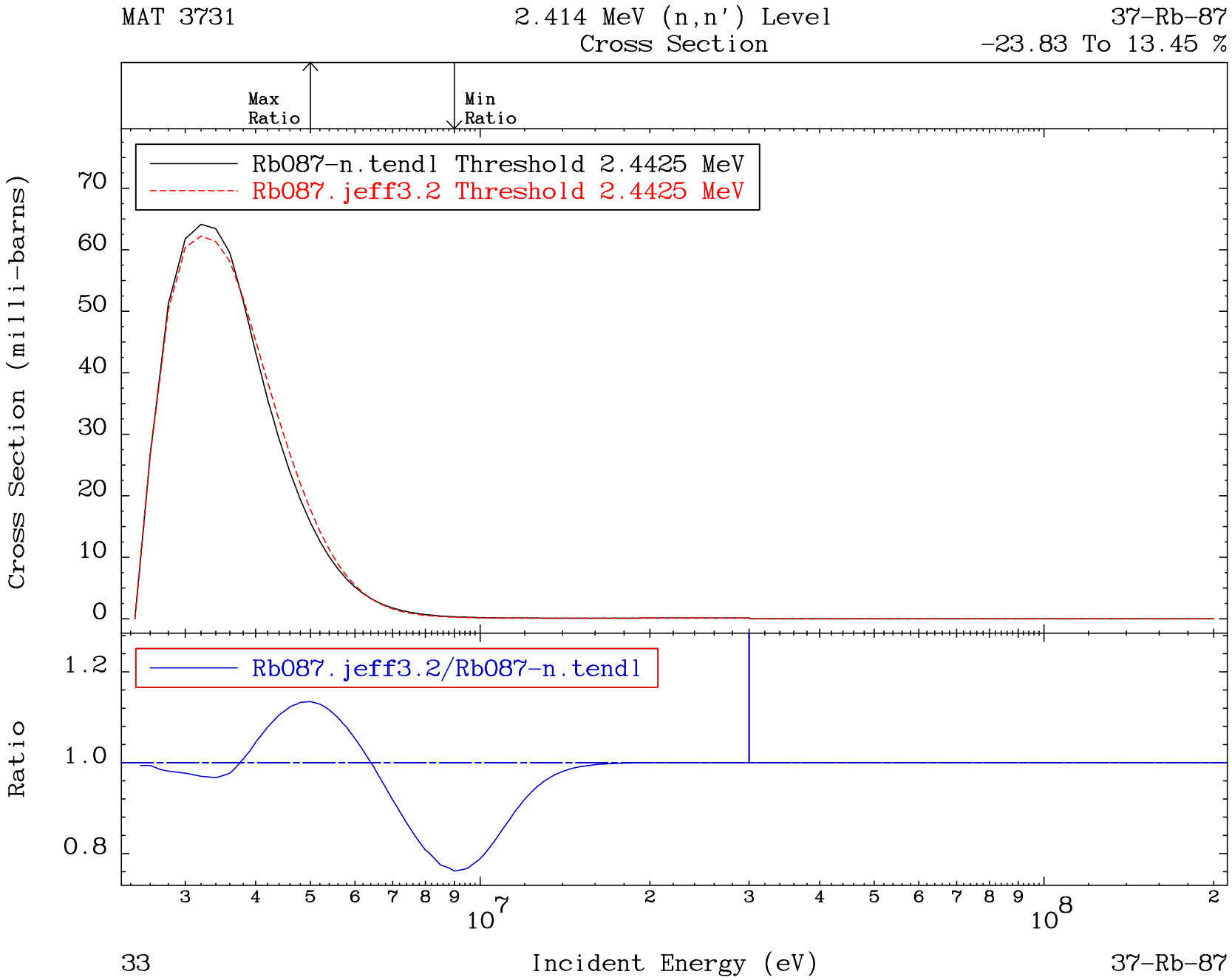

MAT 3731
2.013 MeV (n,n') Level
Cross Section
37-Rb-87
-66.71 To 25.29 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 2.0364 MeV
Rb087.jeff3.2 Threshold 2.0364 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
37-Rb-87

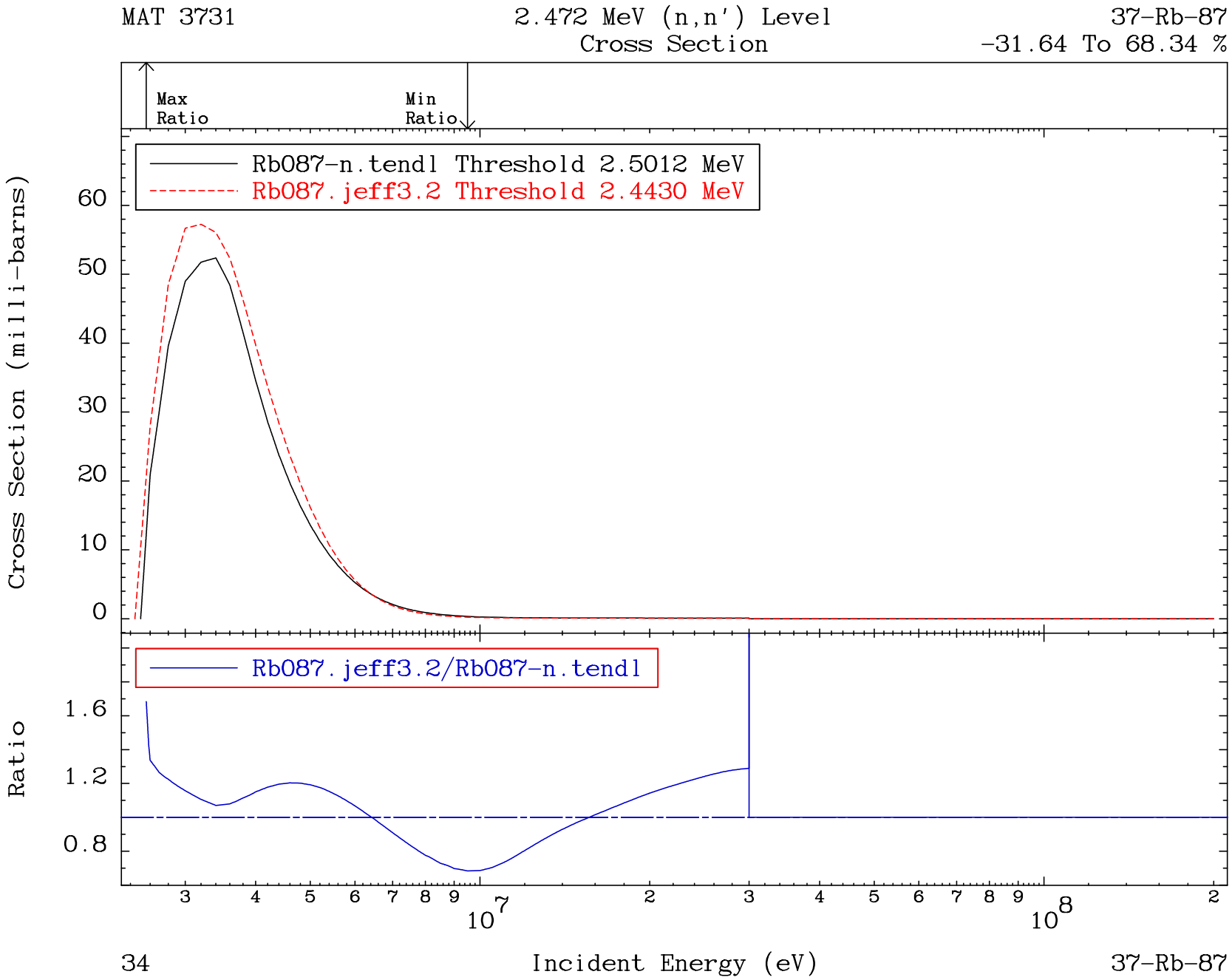

MAT 3731
2.284 MeV (n,n') Level
Cross Section
37-Rb-87
-72.65 To 4.002 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 2.3105 MeV
Rb087.jeff3.2 Threshold 2.3105 MeV
Cross Section (milli-barns)
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
29
Incident Energy (eV)
37-Rb-87

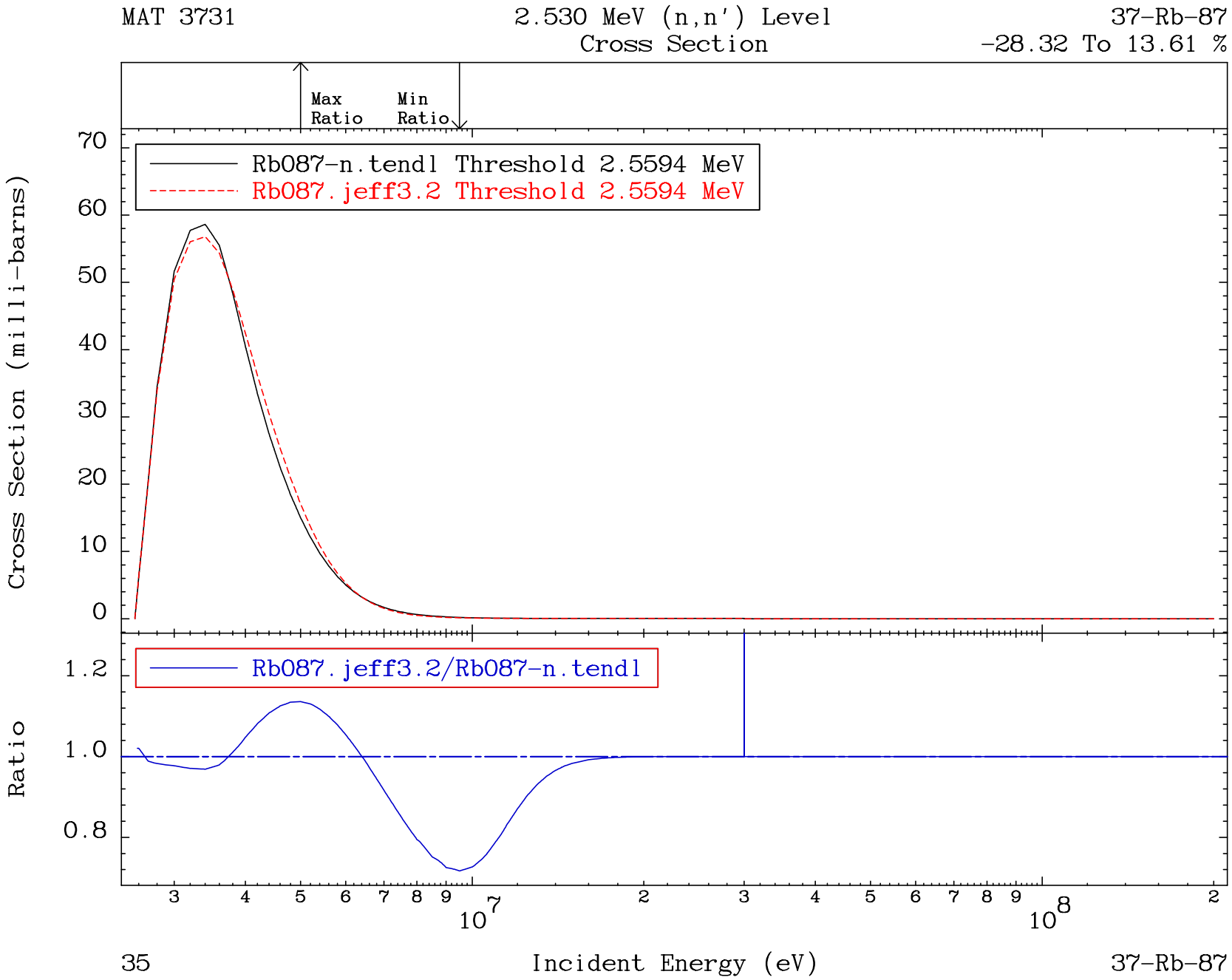

MAT 3731
2.378 MeV (n,n') Level
Cross Section
37-Rb-87
-100.0 To 0.000 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 2.4060 MeV
Rb087.jeff3.2 Threshold 2.4060 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^0
10^-3
10^-6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
37-Rb-87

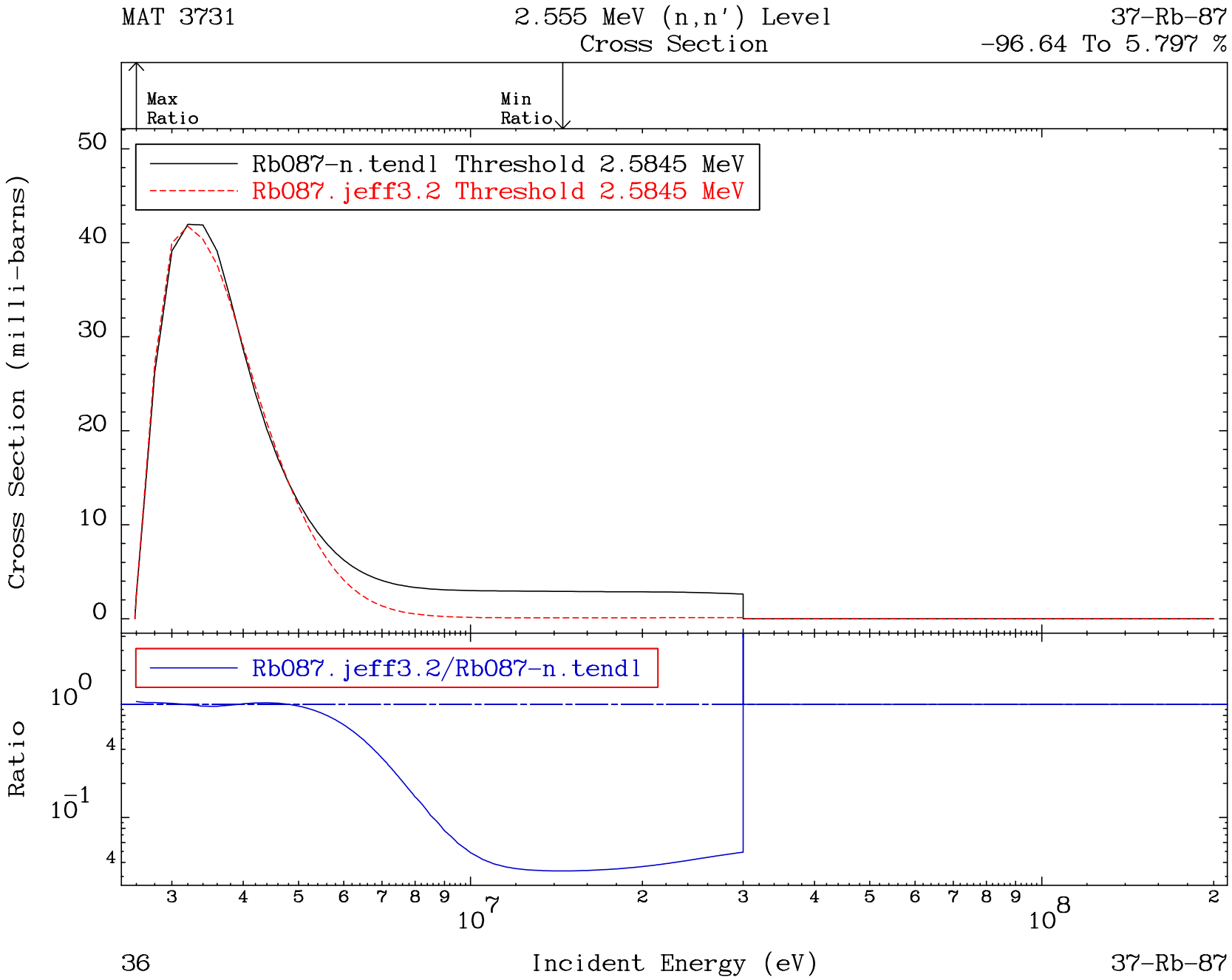

MAT 3731
2.388 MeV (n,n') Level
Cross Section
37-Rb-87
-62.04 To 46.92 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 2.4157 MeV
Rb087.jeff3.2 Threshold 2.4066 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.6
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
37-Rb-87

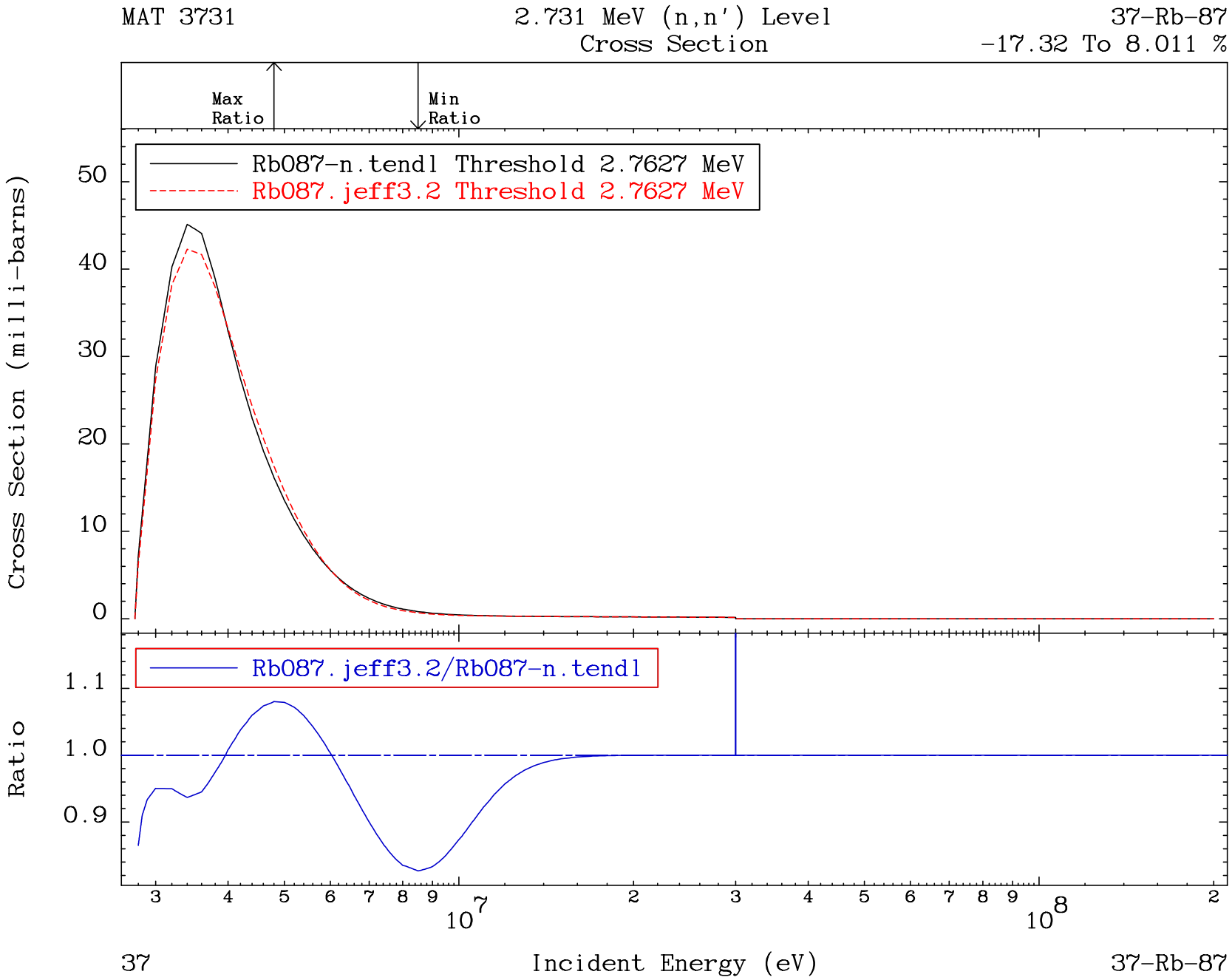

MAT 3731
2.397 MeV (n,n') Level
Cross Section
37-Rb-87
-27.93 To 109.4 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 2.4248 MeV
Rb087.jeff3.2 Threshold 2.4248 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
2.4
1.8
1.2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
37-Rb-87

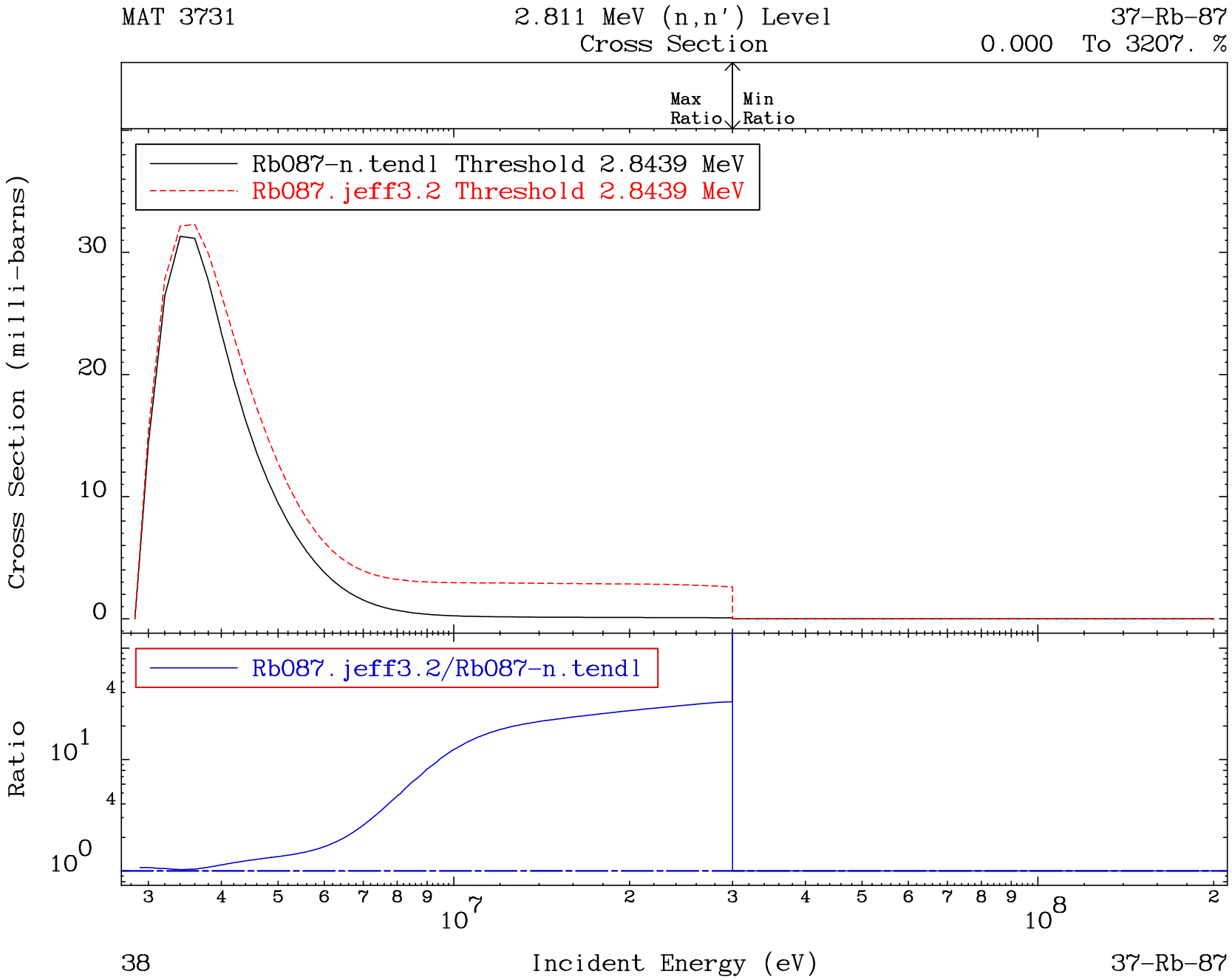

MAT 3731
2.414 MeV (n,n') Level
Cross Section
37-Rb-87
-23.83 To 13.45 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 2.4425 MeV
Rb087.jeff3.2 Threshold 2.4425 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
1.0
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
37-Rb-87

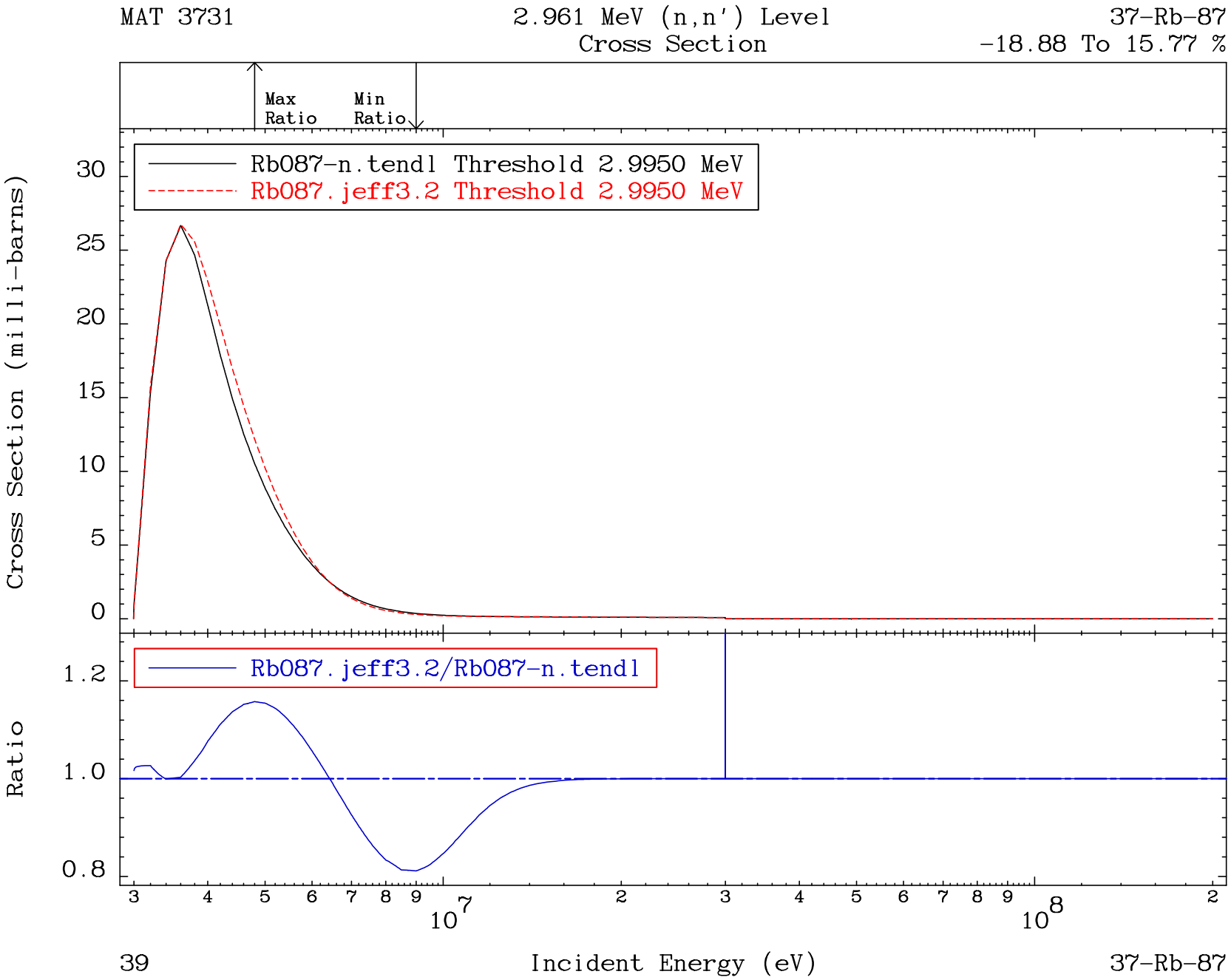

MAT 3731
2.472 MeV (n,n') Level
Cross Section
37-Rb-87
-31.64 To 68.34 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 2.5012 MeV
Rb087.jeff3.2 Threshold 2.4430 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.6
1.2
0.8
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
34
Incident Energy (eV)
37-Rb-87

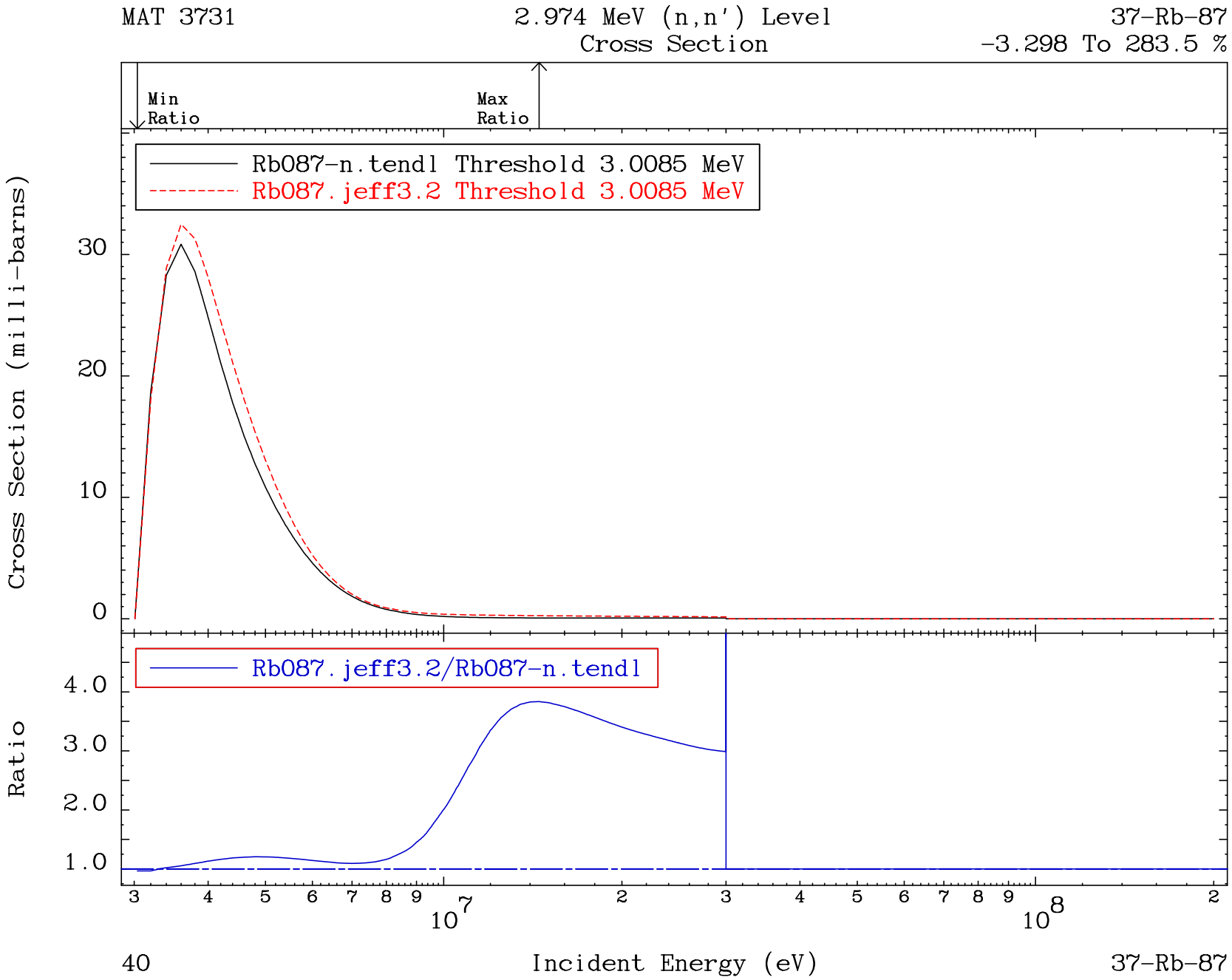

MAT 3731
2.530 MeV (n,n') Level
Cross Section
37-Rb-87
-28.32 To 13.61 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 2.5594 MeV
Rb087.jeff3.2 Threshold 2.5594 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
1.0
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
37-Rb-87

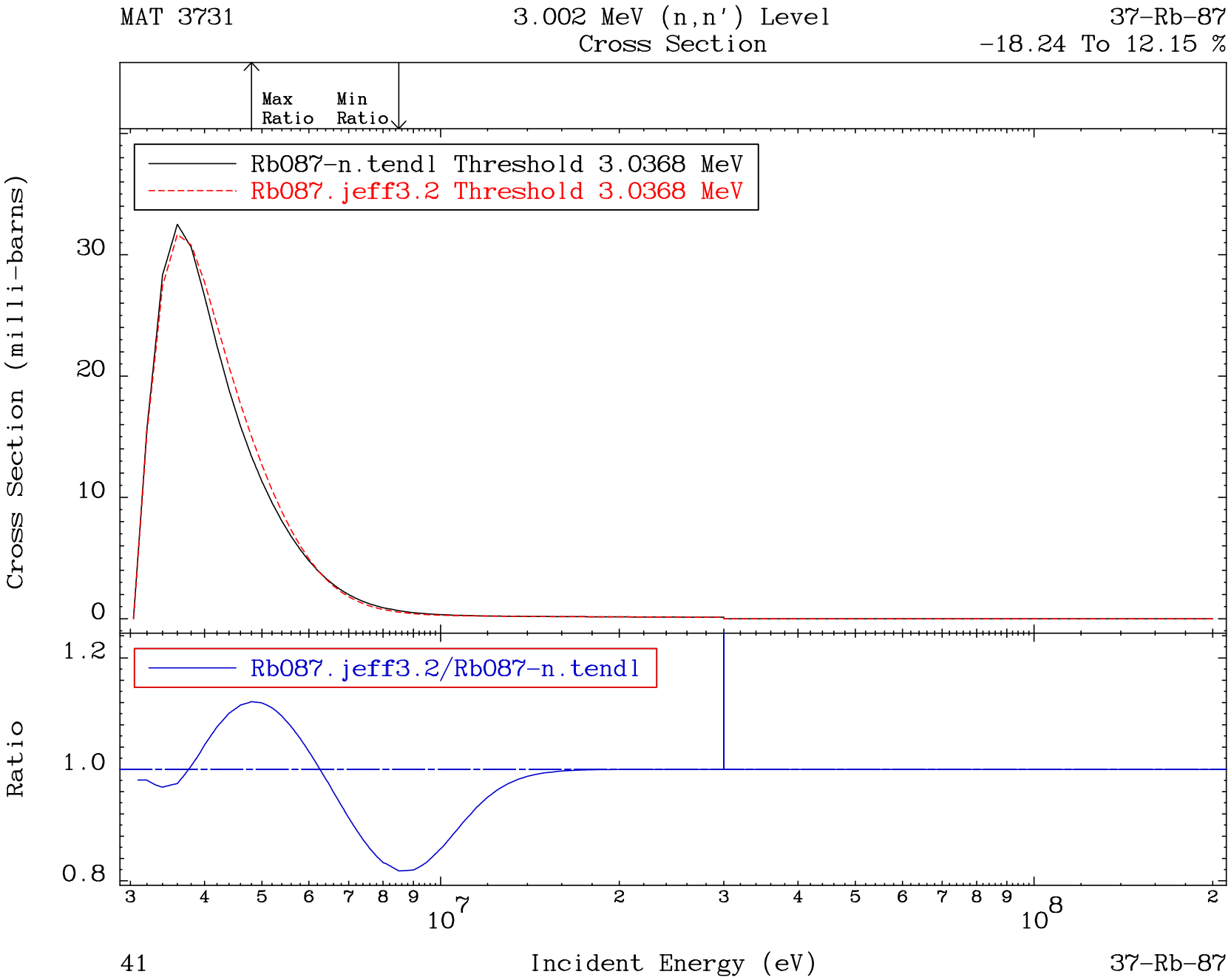

MAT 3731
2.555 MeV (n,n') Level
Cross Section
37-Rb-87
-96.64 To 5.797 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 2.5845 MeV
Rb087.jeff3.2 Threshold 2.5845 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^0
4
10^-1
4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
37-Rb-87

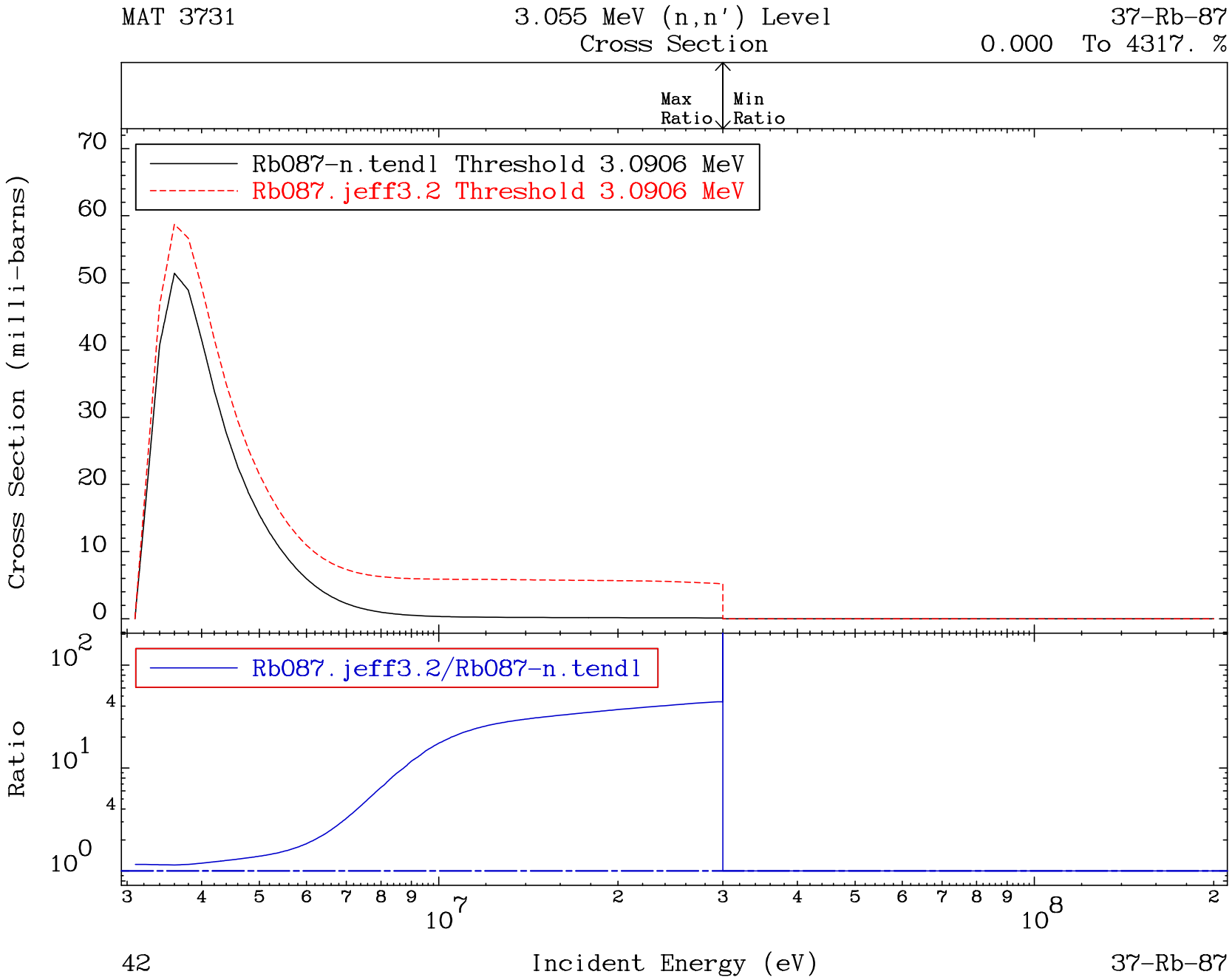

MAT 3731
2.731 MeV (n,n') Level
Cross Section
37-Rb-87
-17.32 To 8.011 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 2.7627 MeV
Rb087.jeff3.2 Threshold 2.7627 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.1
1.0
0.9
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
37-Rb-87

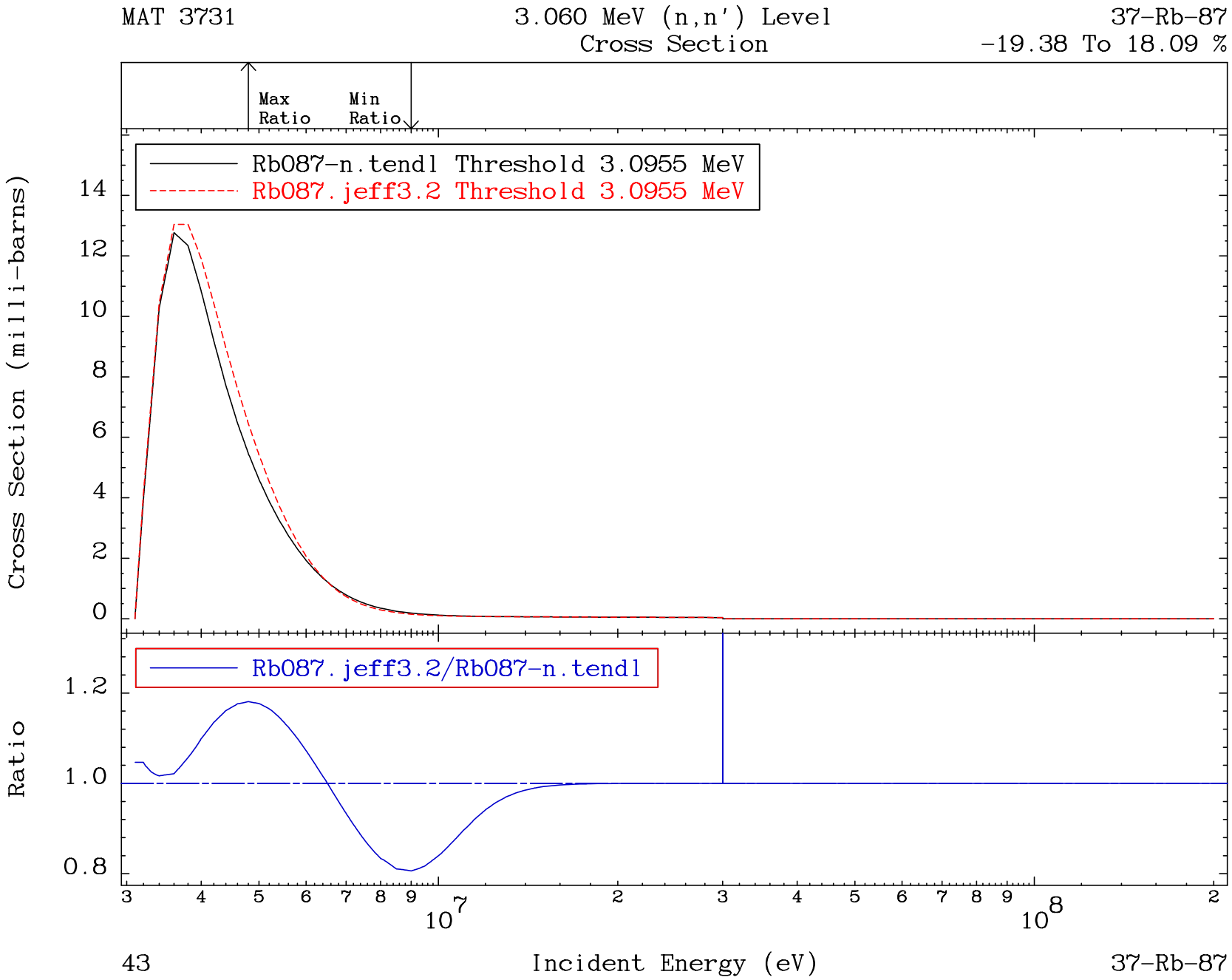

MAT 3731
2.811 MeV (n,n') Level
Cross Section
37-Rb-87
0.000 To 3207. %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 2.8439 MeV
Rb087.jeff3.2 Threshold 2.8439 MeV
Cross Section (milli-barns)
30
20
10
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^1
4
10^0
4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
37-Rb-87

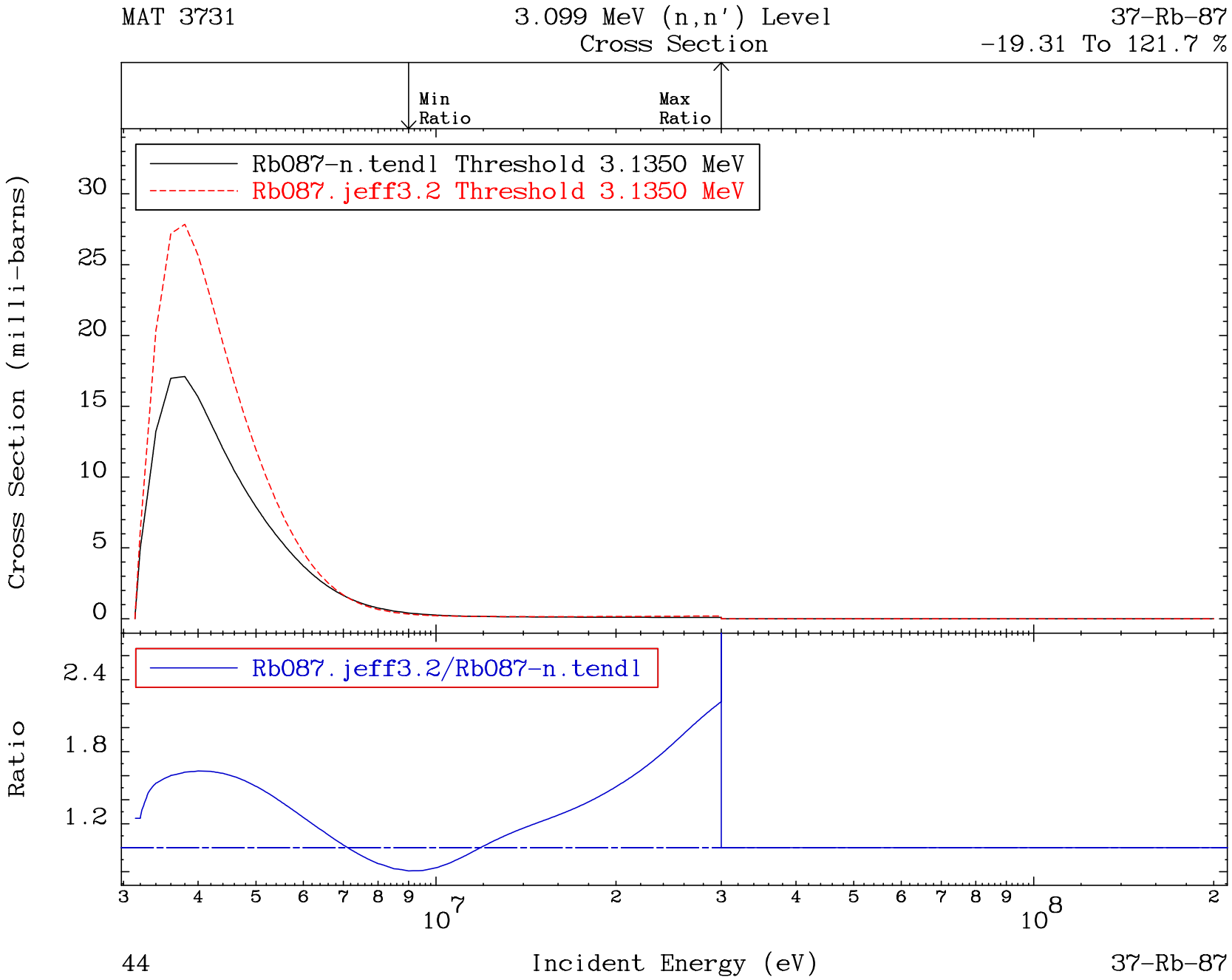

MAT 3731
2.961 MeV (n,n') Level
Cross Section
37-Rb-87
-18.88 To 15.77 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 2.9950 MeV
Rb087.jeff3.2 Threshold 2.9950 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
1.0
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
37-Rb-87

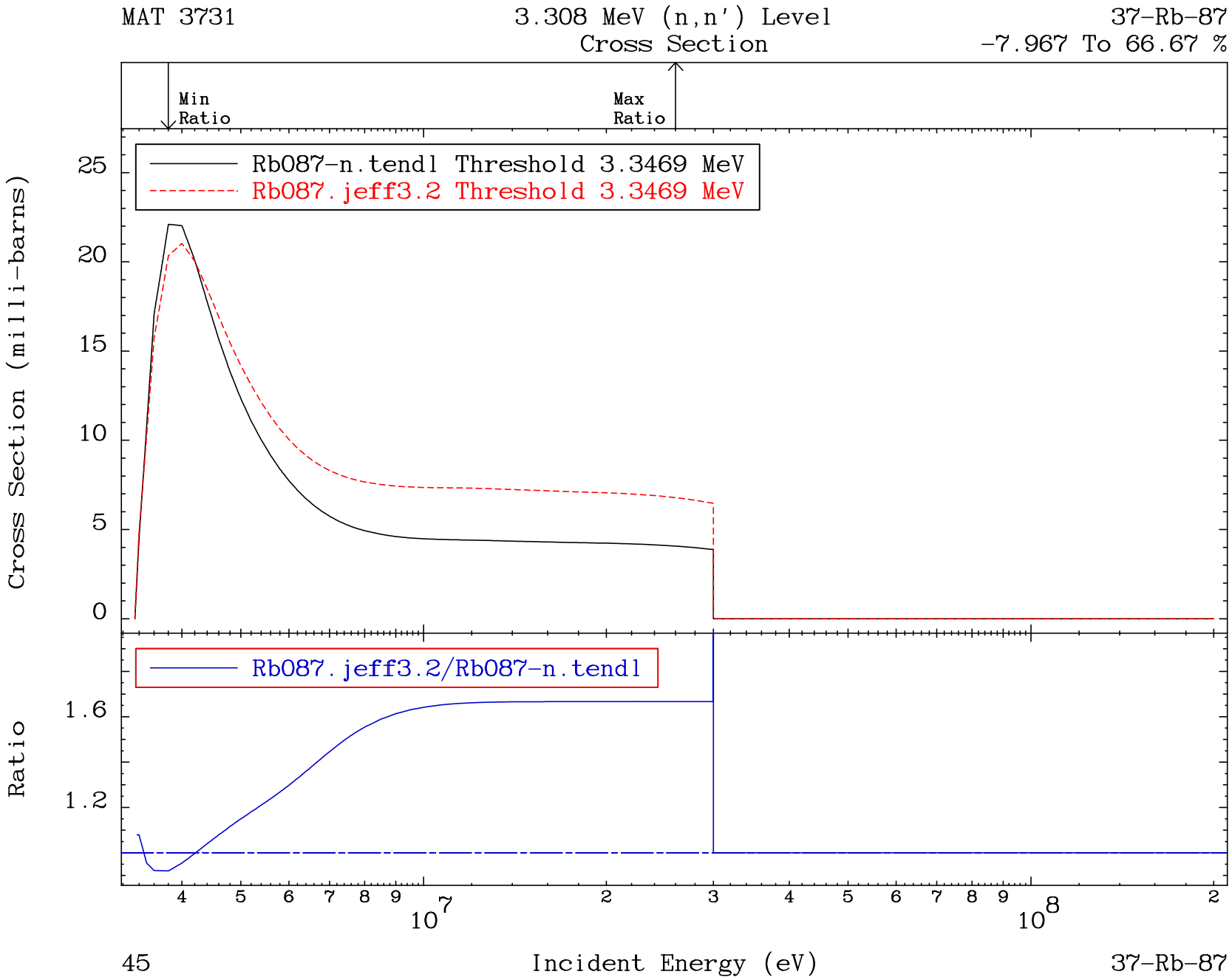

MAT 3731
2.974 MeV (n,n') Level
Cross Section
37-Rb-87
-3.298 To 283.5 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 3.0085 MeV
Rb087.jeff3.2 Threshold 3.0085 MeV
Cross Section (milli-barns)
30
20
10
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
4.0
3.0
2.0
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
37-Rb-87

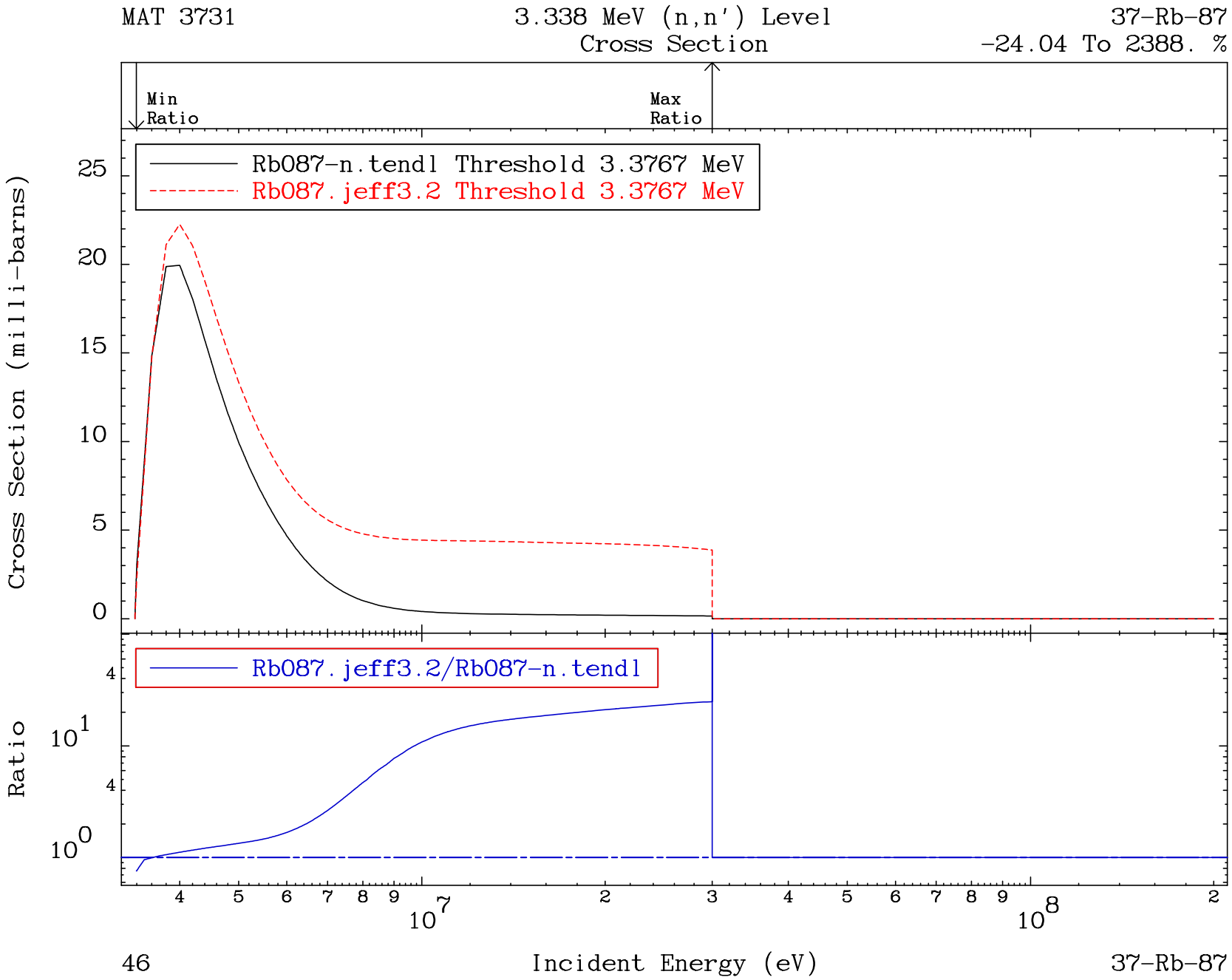

MAT 3731
3.002 MeV (n,n') Level
Cross Section
37-Rb-87
-18.24 To 12.15 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 3.0368 MeV
Rb087.jeff3.2 Threshold 3.0368 MeV
Cross Section (milli-barns)
30
20
10
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
1.0
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
37-Rb-87

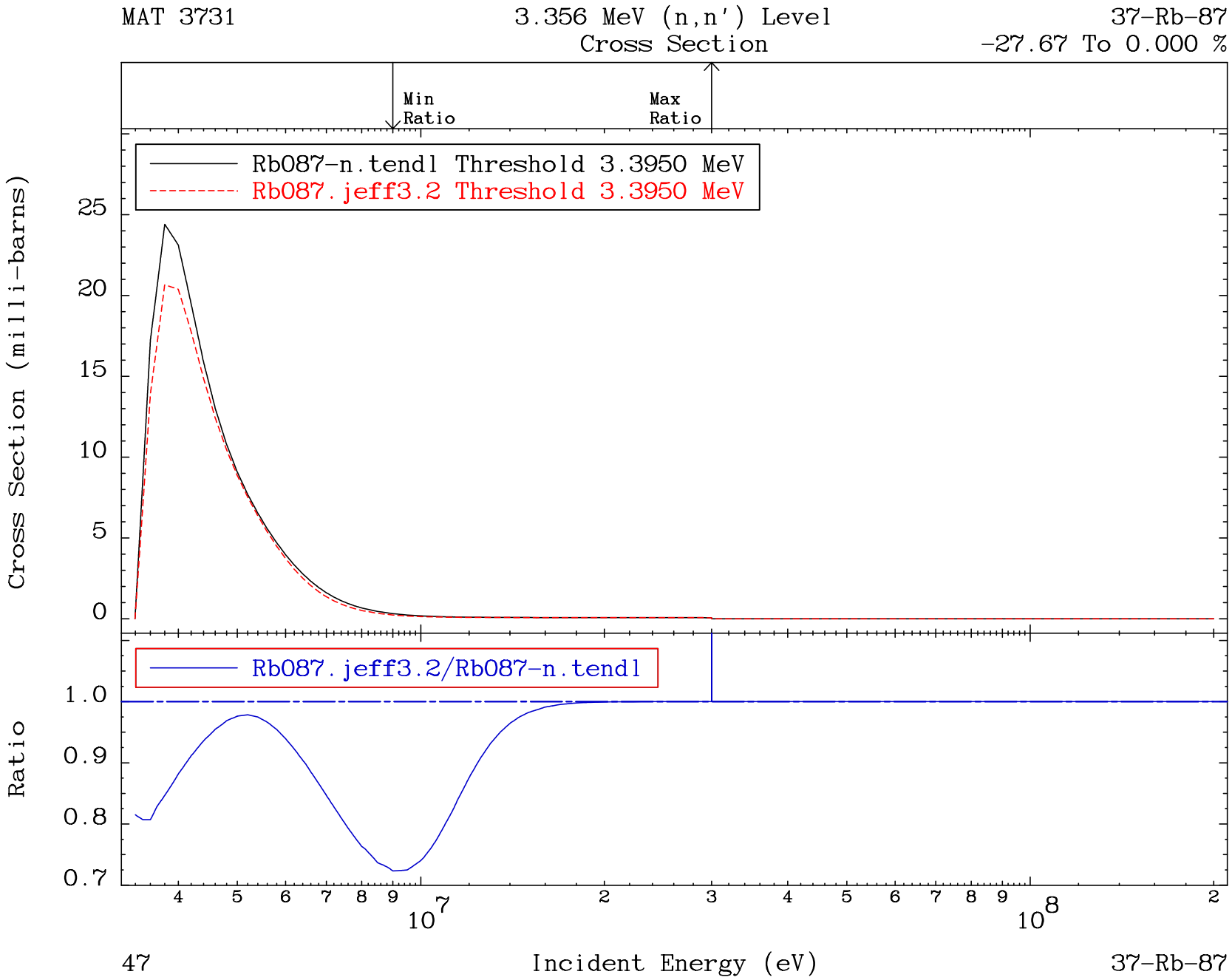

MAT 3731
3.055 MeV (n,n') Level
Cross Section
37-Rb-87
0.000 To 4317. %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 3.0906 MeV
Rb087.jeff3.2 Threshold 3.0906 MeV
Cross Section (milli-barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
42
37-Rb-87

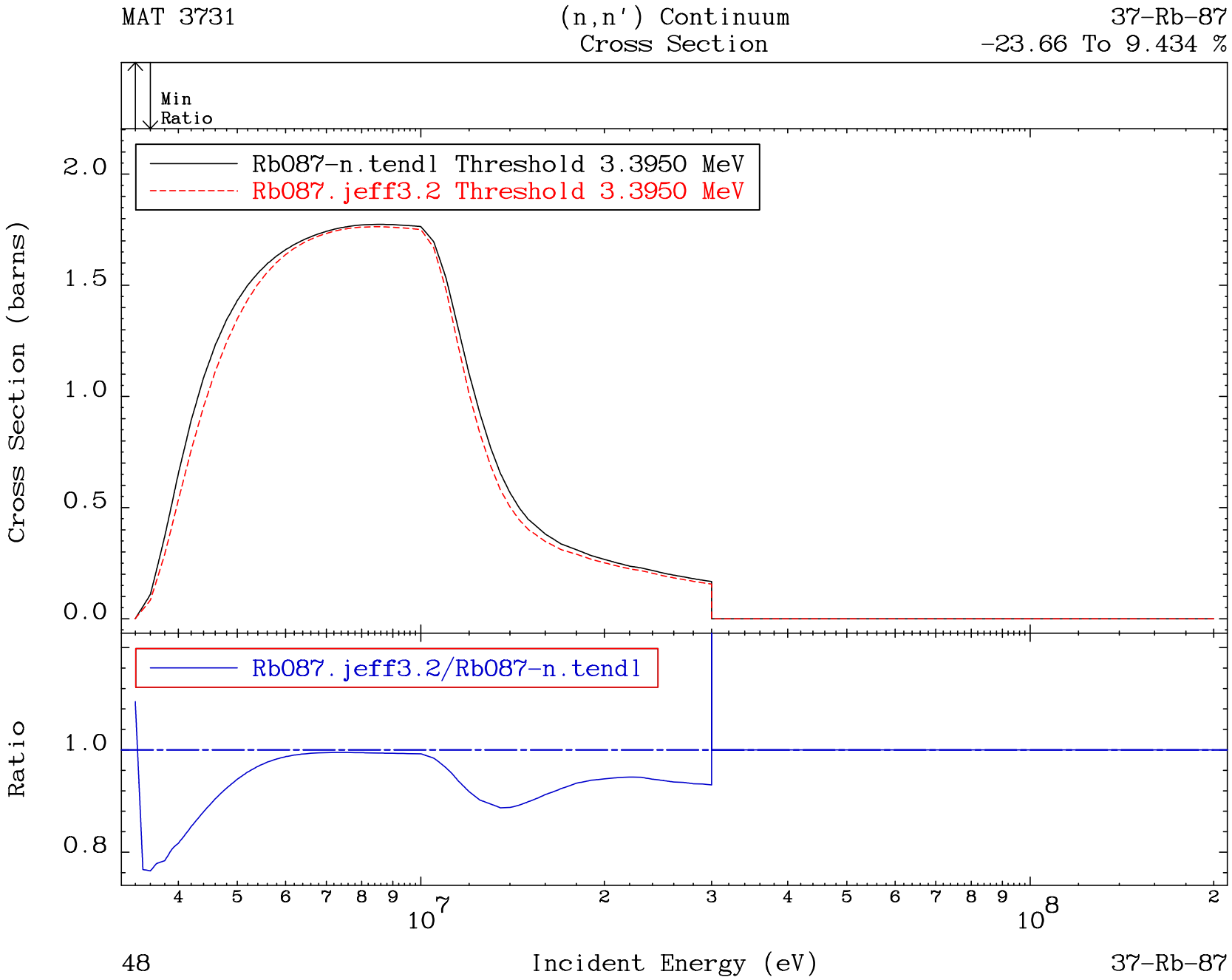

MAT 3731
3.060 MeV (n,n') Level
Cross Section
37-Rb-87
-19.38 To 18.09 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 3.0955 MeV
Rb087.jeff3.2 Threshold 3.0955 MeV
Cross Section (milli-barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
43
37-Rb-87

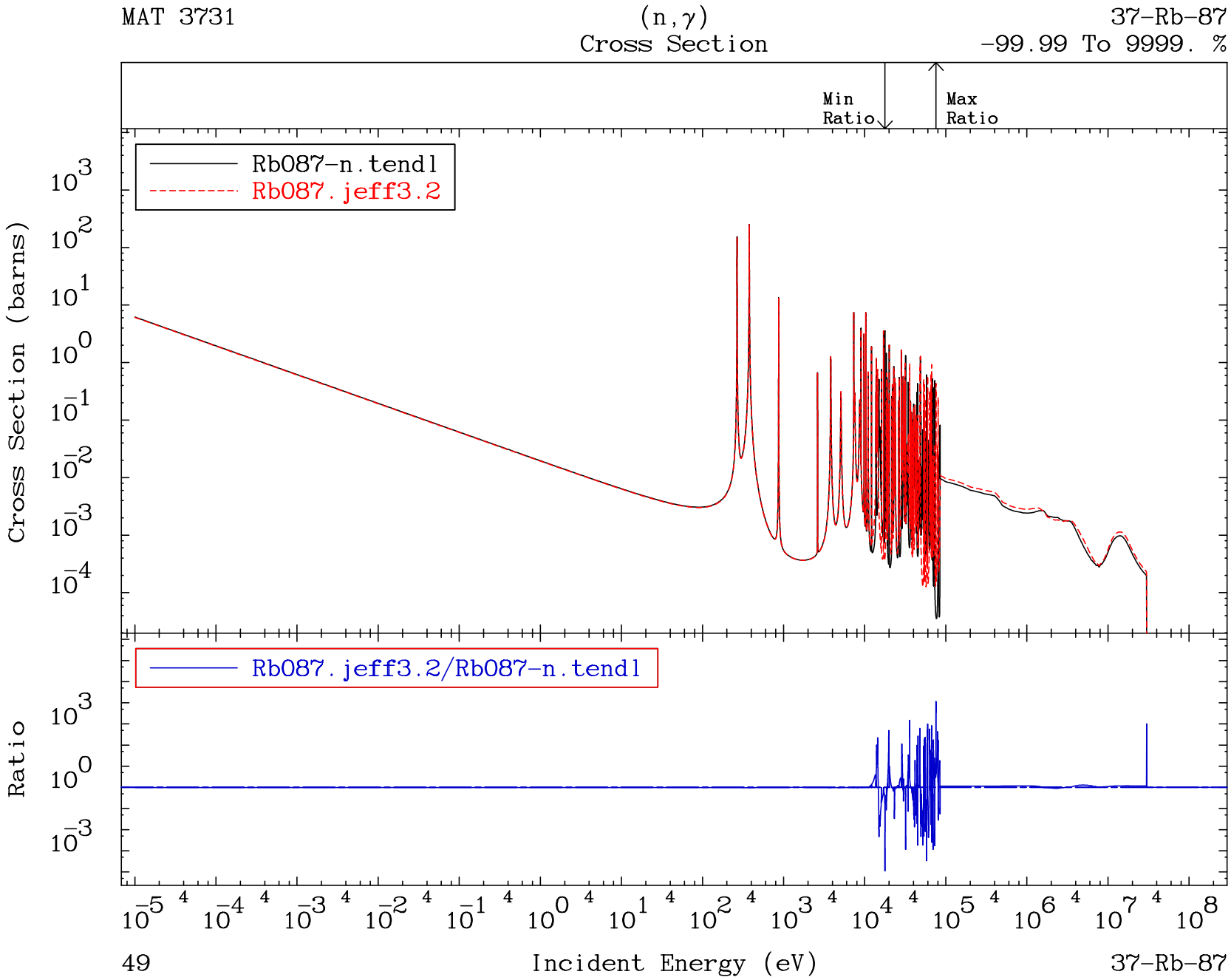

MAT 3731
3.099 MeV (n,n') Level
Cross Section
37-Rb-87
-19.31 To 121.7 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 3.1350 MeV
Rb087.jeff3.2 Threshold 3.1350 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
2.4
1.8
1.2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
37-Rb-87

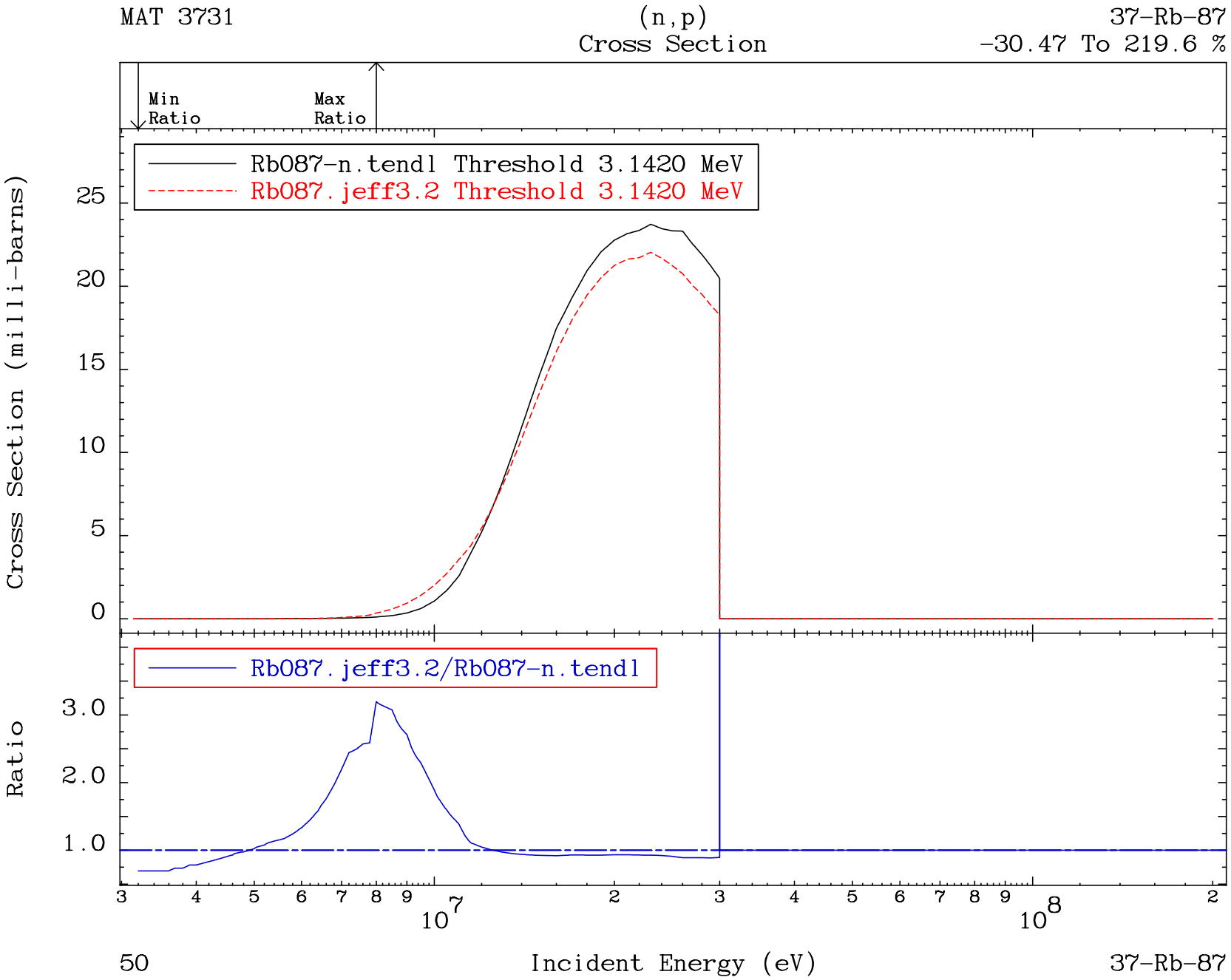

MAT 3731
3.308 MeV (n,n') Level
Cross Section
37-Rb-87
-7.967 To 66.67 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 3.3469 MeV
Rb087.jeff3.2 Threshold 3.3469 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.6
1.2
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
37-Rb-87

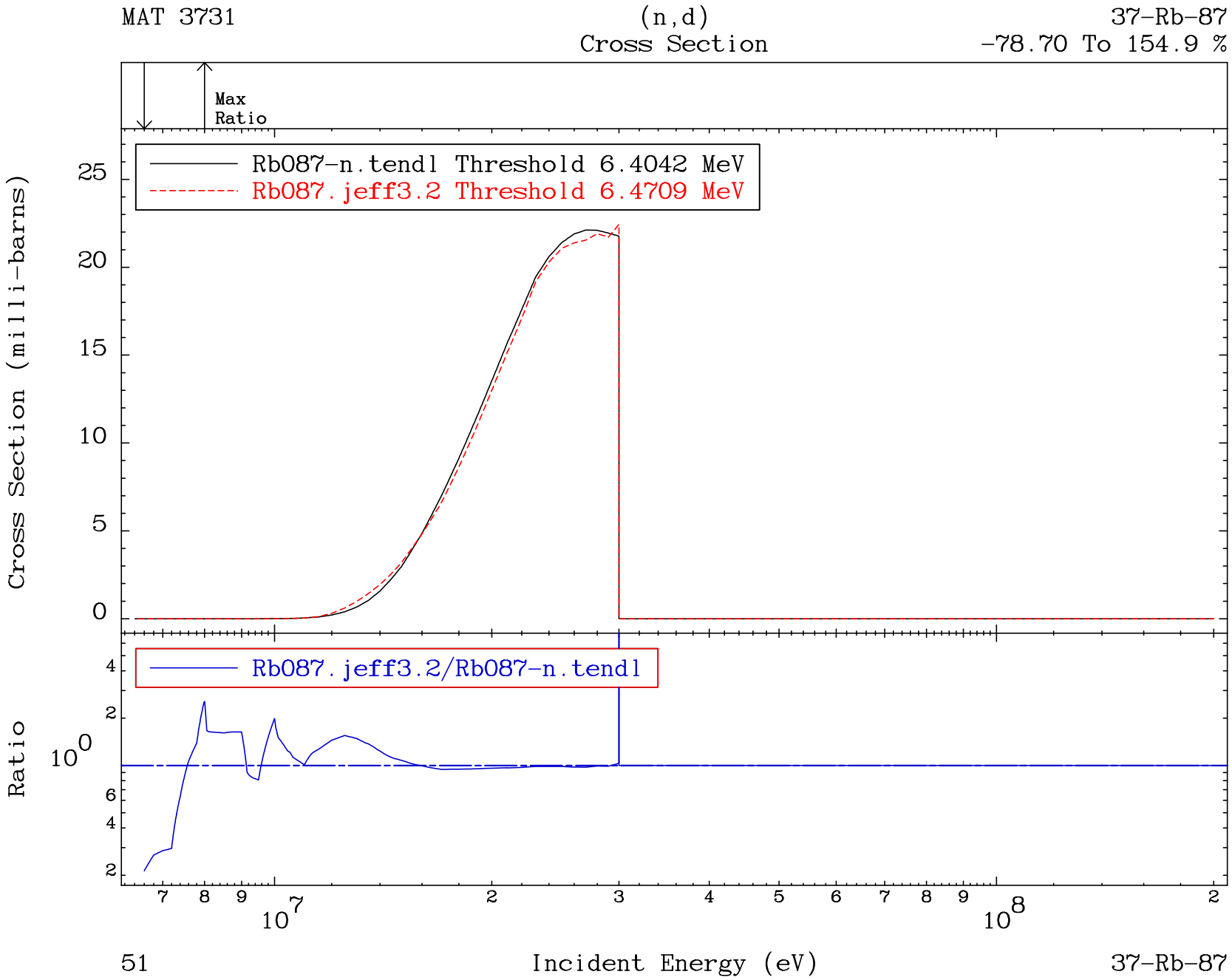

MAT 3731
3.338 MeV (n,n') Level
Cross Section
37-Rb-87
-24.04 To 2388. %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 3.3767 MeV
Rb087.jeff3.2 Threshold 3.3767 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^1
4
10^0
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
37-Rb-87

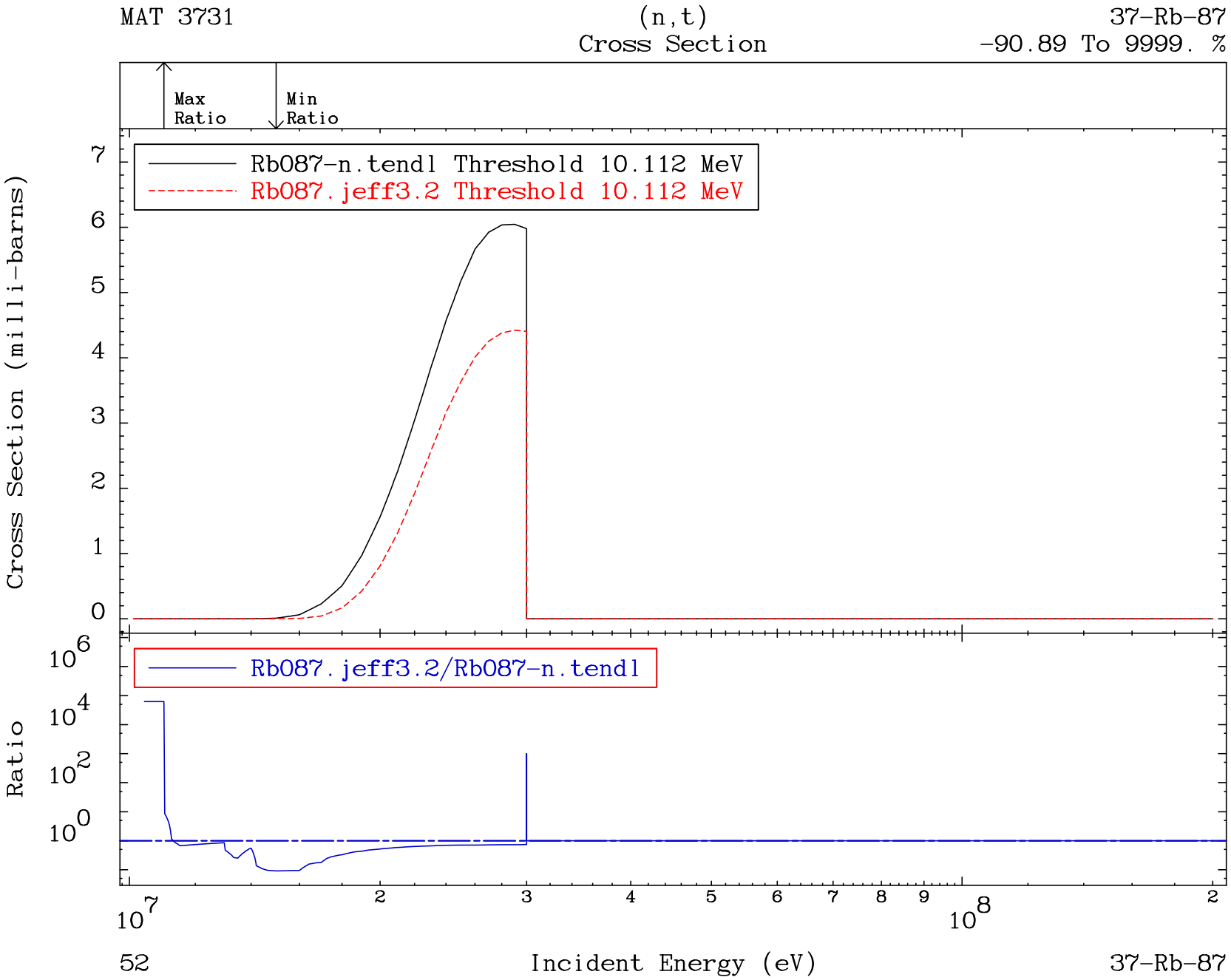

MAT 3731
3.356 MeV (n,n') Level
Cross Section
37-Rb-87
-27.67 To 0.000 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 3.3950 MeV
Rb087.jeff3.2 Threshold 3.3950 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.0
0.9
0.8
0.7
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
37-Rb-87

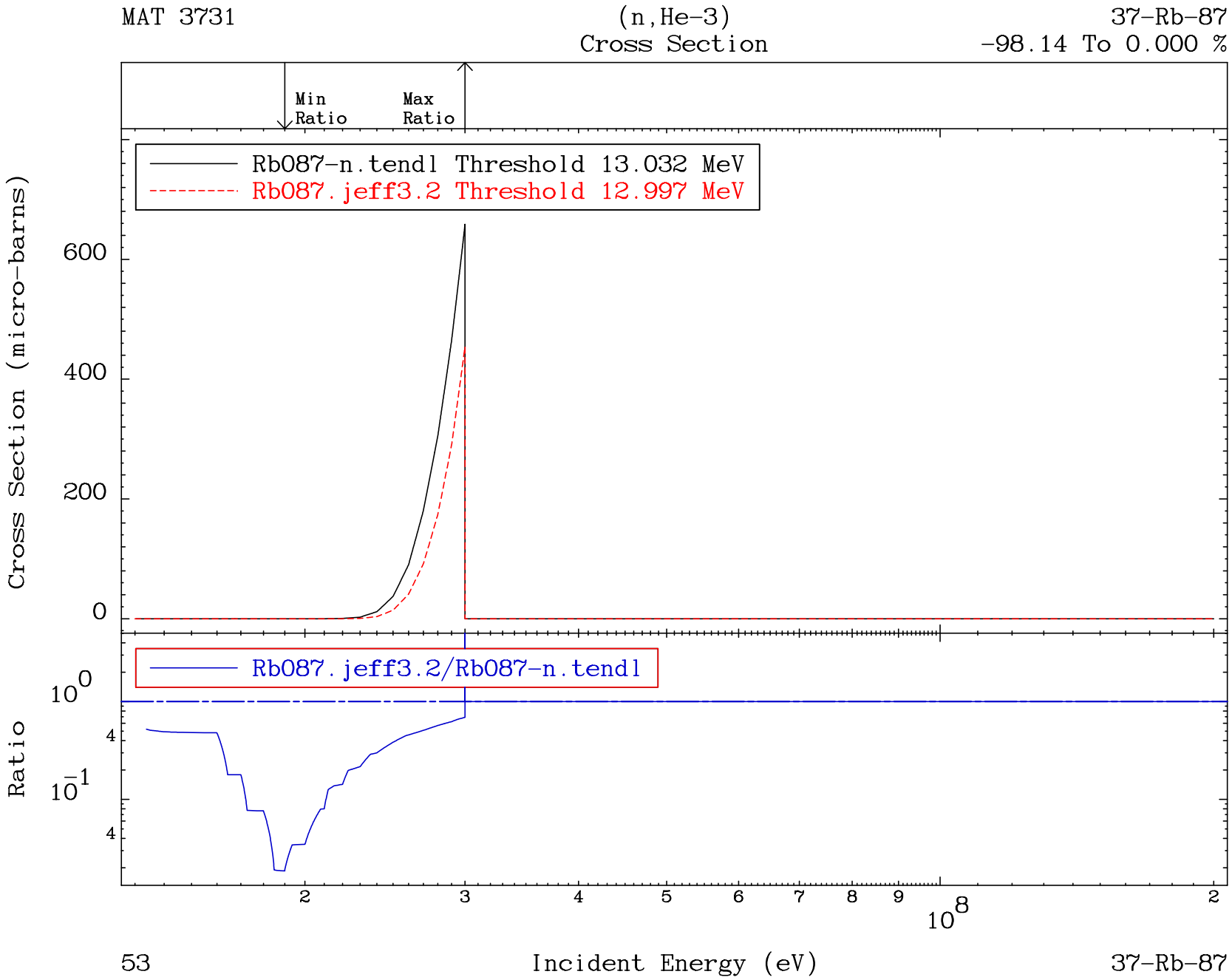

MAT 3731
(n,n') Continuum
Cross Section
37-Rb-87
-23.66 To 9.434 %
Min
Ratio
Rb087-n.tendl Threshold 3.3950 MeV
Rb087.jeff3.2 Threshold 3.3950 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.0
0.8
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
37-Rb-87

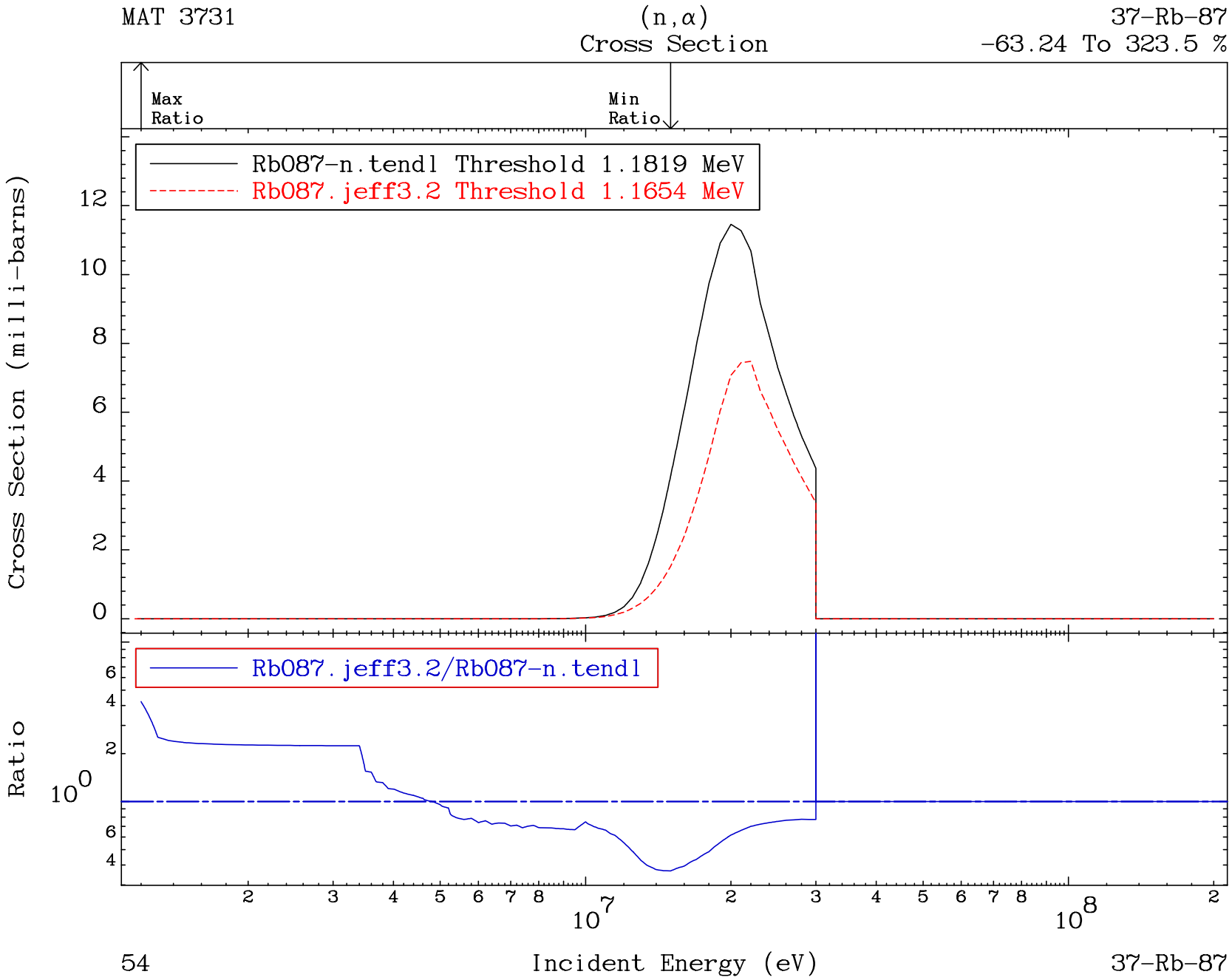

MAT 3731
(n,γ)
Cross Section
37-Rb-87
-99.99 To 9999. %
Min Ratio
Max Ratio
Rb087-n.tendl
Rb087.jeff3.2
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
49
37-Rb-87

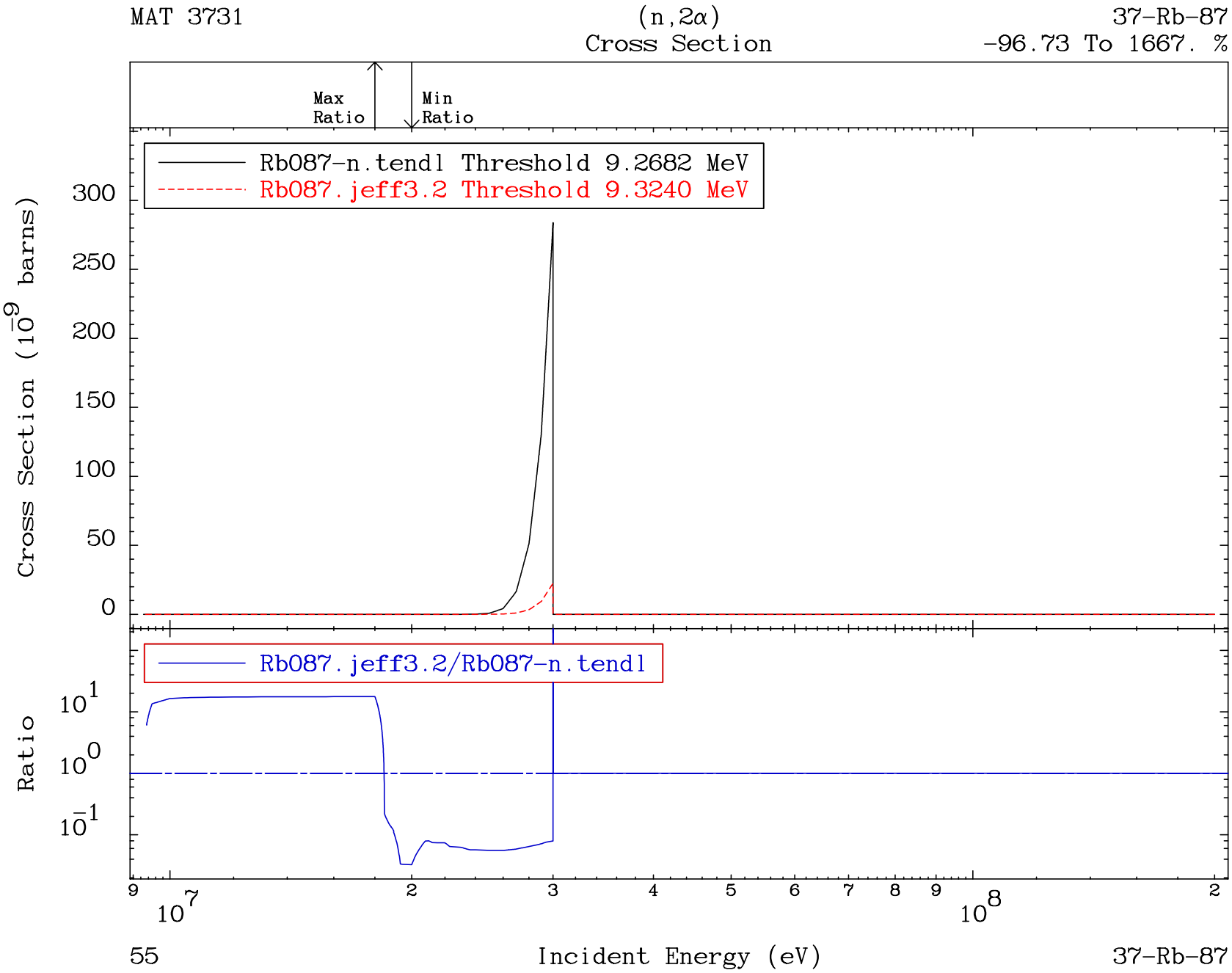

MAT 3731
(n,p)
Cross Section
37-Rb-87
-30.47 To 219.6 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 3.1420 MeV
Rb087.jeff3.2 Threshold 3.1420 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
3.0
2.0
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
50
Incident Energy (eV)
37-Rb-87

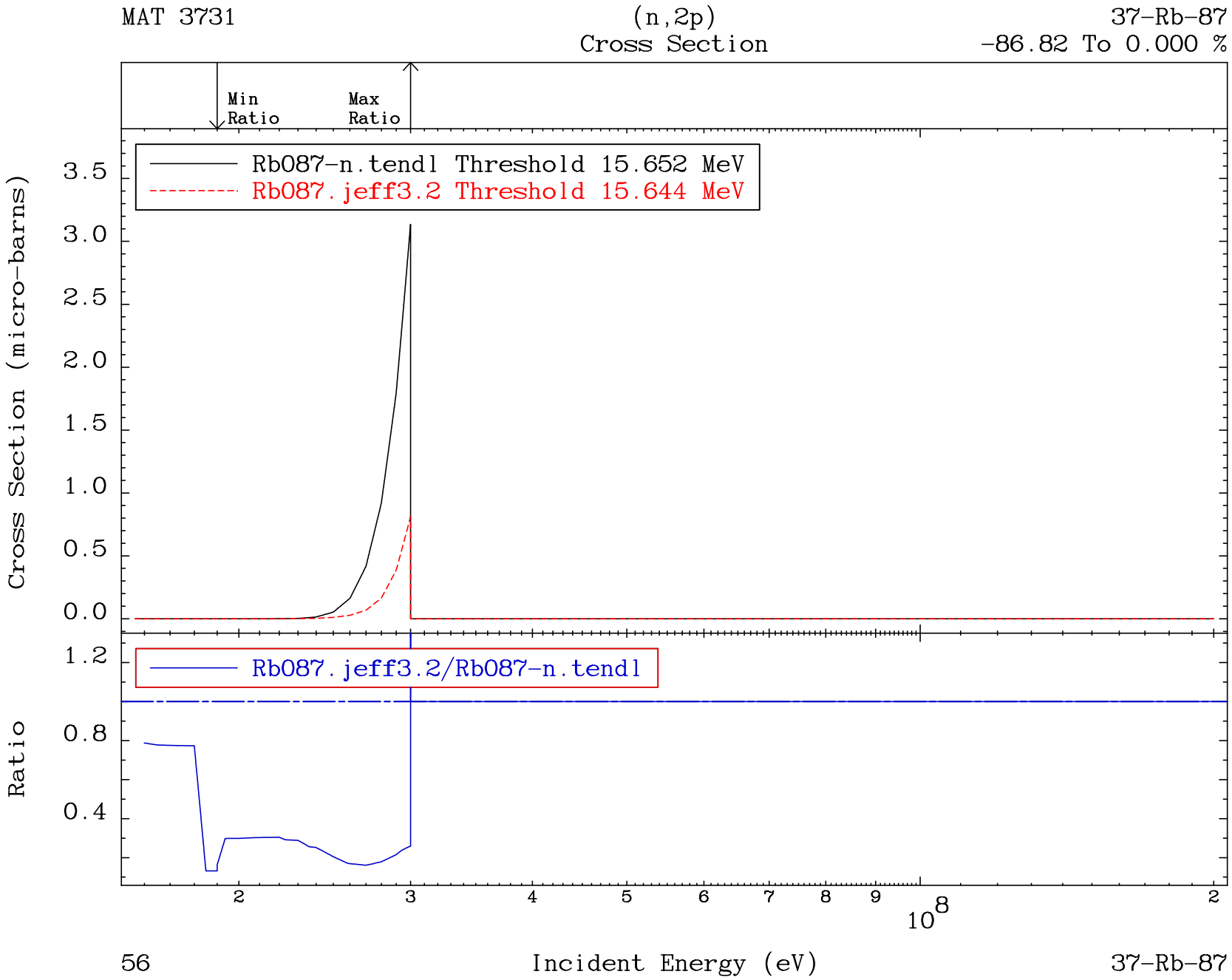

MAT 3731
(n,d)
Cross Section
37-Rb-87
-78.70 To 154.9 %
Max
Ratio
Rb087-n.tendl Threshold 6.4042 MeV
Rb087.jeff3.2 Threshold 6.4709 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^0
4
2
6
4
2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
37-Rb-87

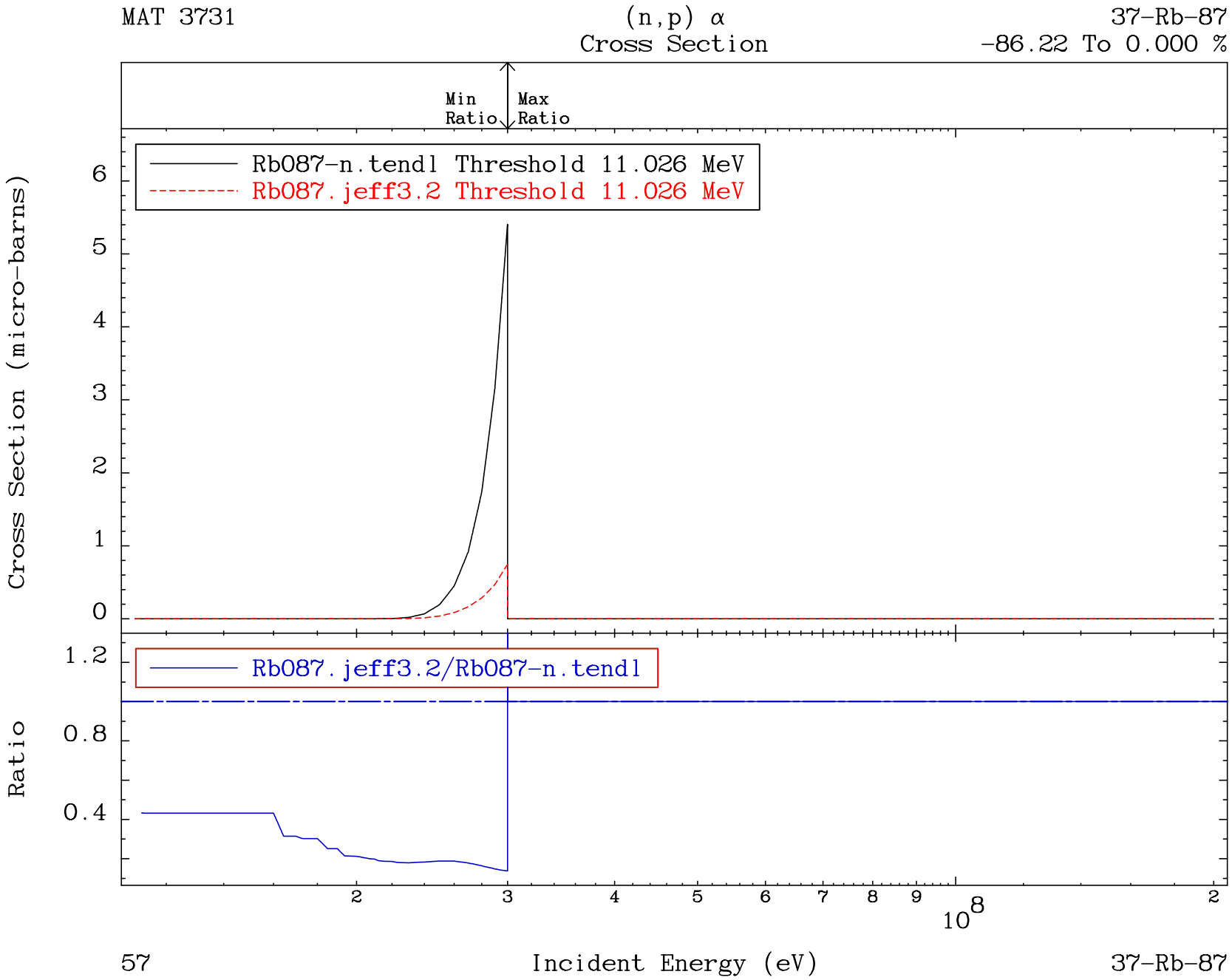

MAT 3731
(n,t)
Cross Section
37-Rb-87
-90.89 To 9999. %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 10.112 MeV
Rb087.jeff3.2 Threshold 10.112 MeV
Cross Section (milli-barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
52
37-Rb-87

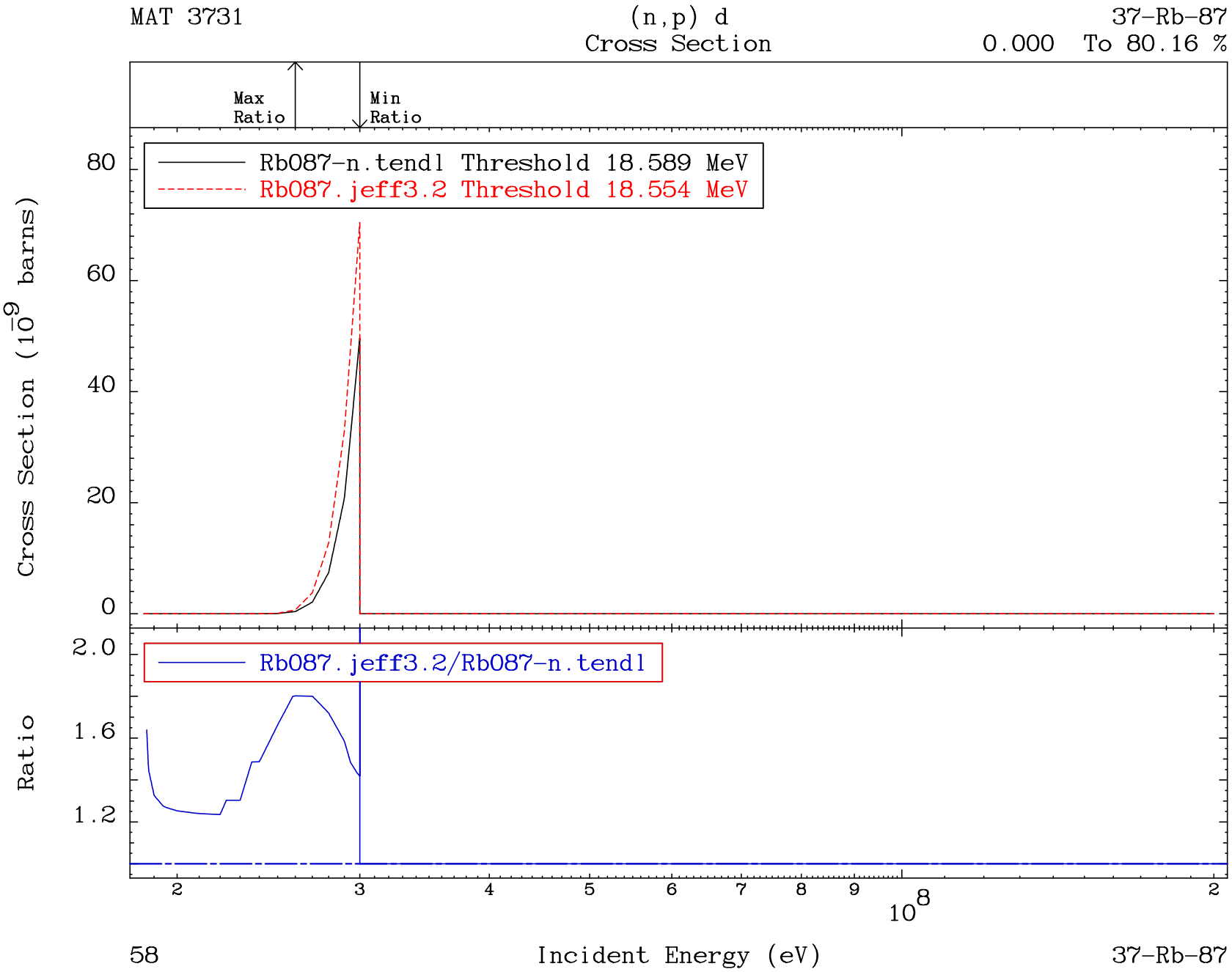

MAT 3731
(n,He-3)
Cross Section
37-Rb-87
-98.14 To 0.000 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 13.032 MeV
Rb087.jeff3.2 Threshold 12.997 MeV
Cross Section (micro-barns)
600
400
200
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
53
Incident Energy (eV)
37-Rb-87

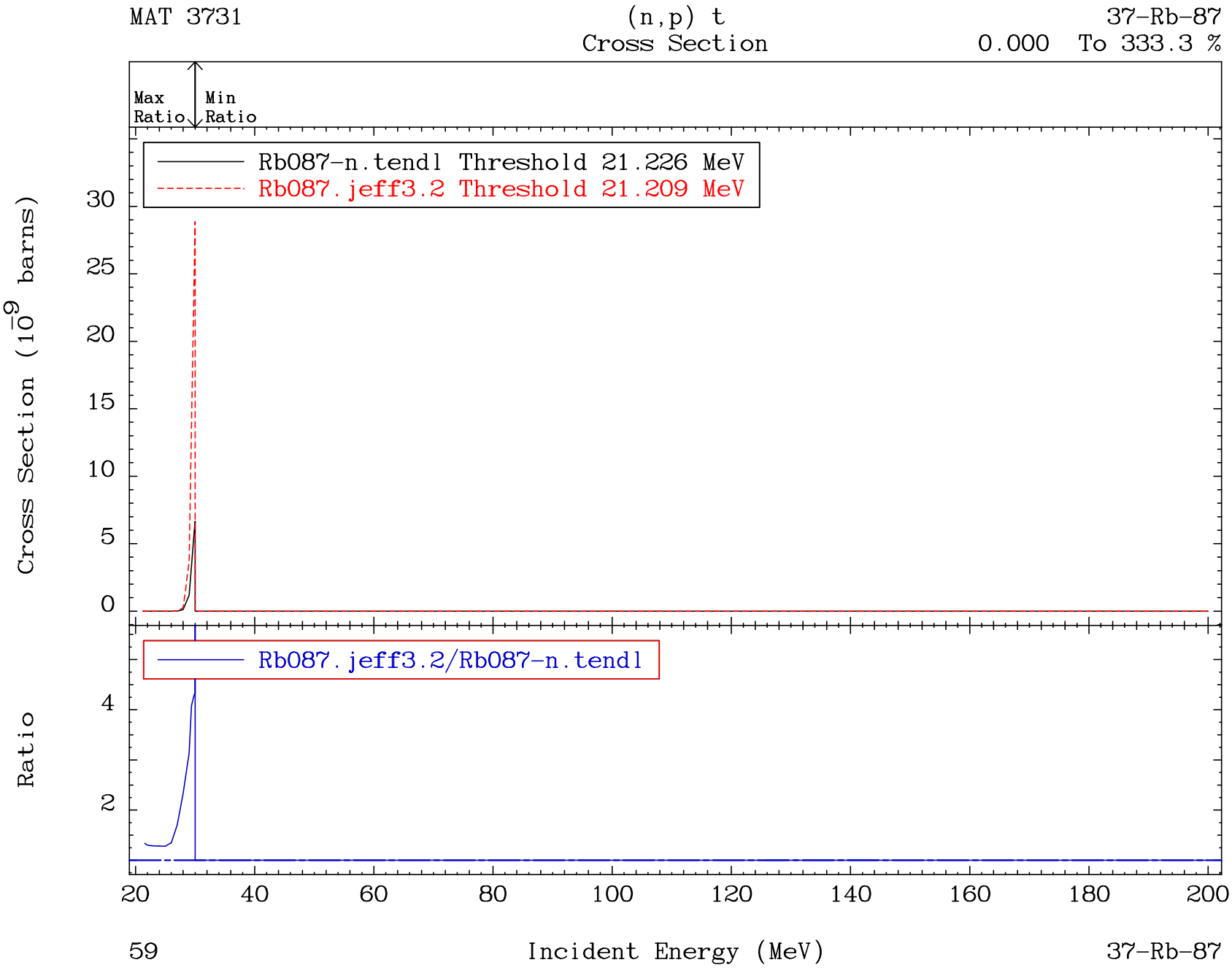

MAT 3731
(n,α)
Cross Section
37-Rb-87
-63.24 To 323.5 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 1.1819 MeV
Rb087.jeff3.2 Threshold 1.1654 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^0
2
3
4
5
6
7
8
10^7
10^8
54
Incident Energy (eV)
37-Rb-87

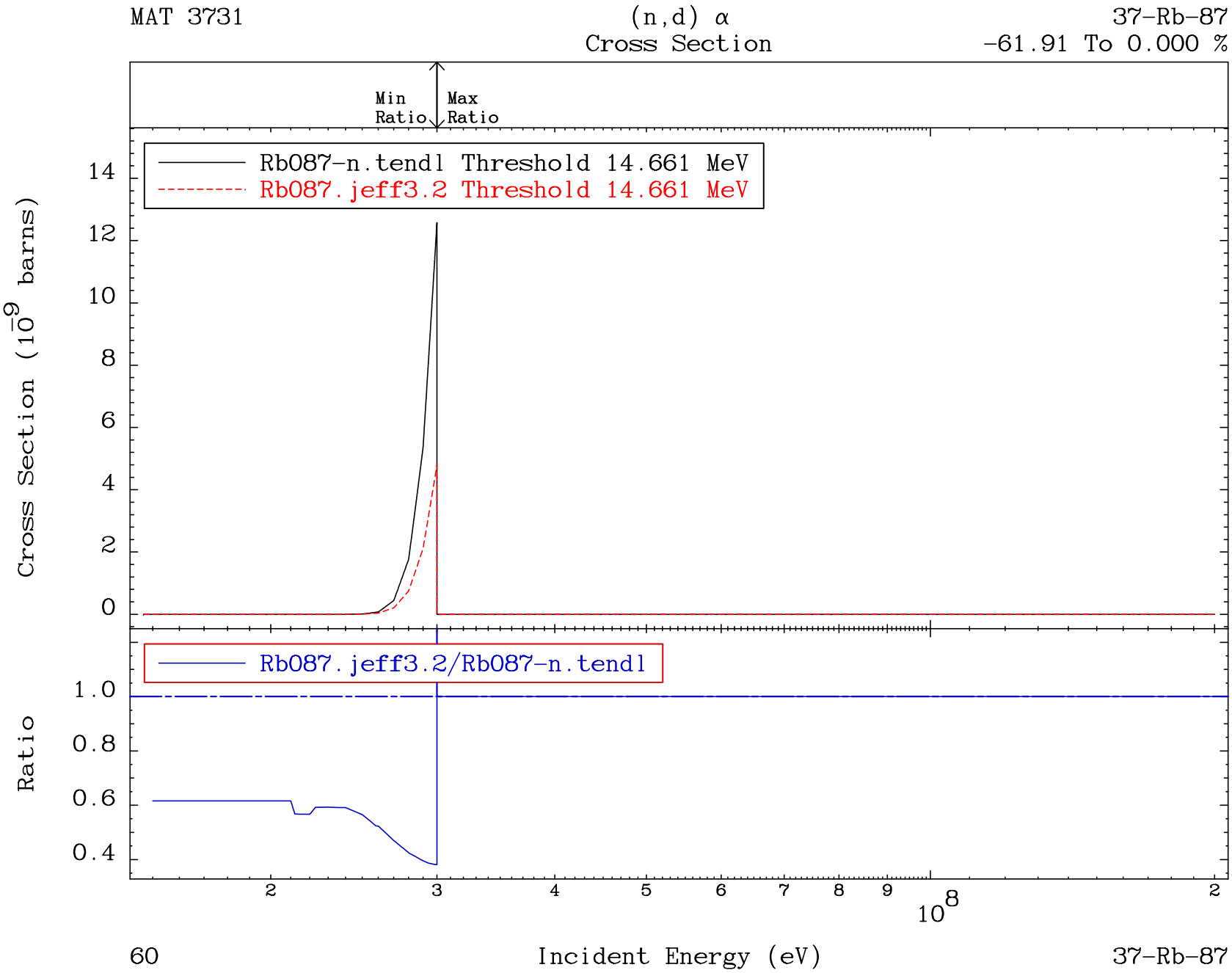

MAT 3731
(n,2α)
Cross Section
37-Rb-87
-96.73 To 1667. %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 9.2682 MeV
Rb087.jeff3.2 Threshold 9.3240 MeV
Cross Section (10^-9 barns)
300
250
200
150
100
50
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^1
10^0
10^-1
9
10^7
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
37-Rb-87

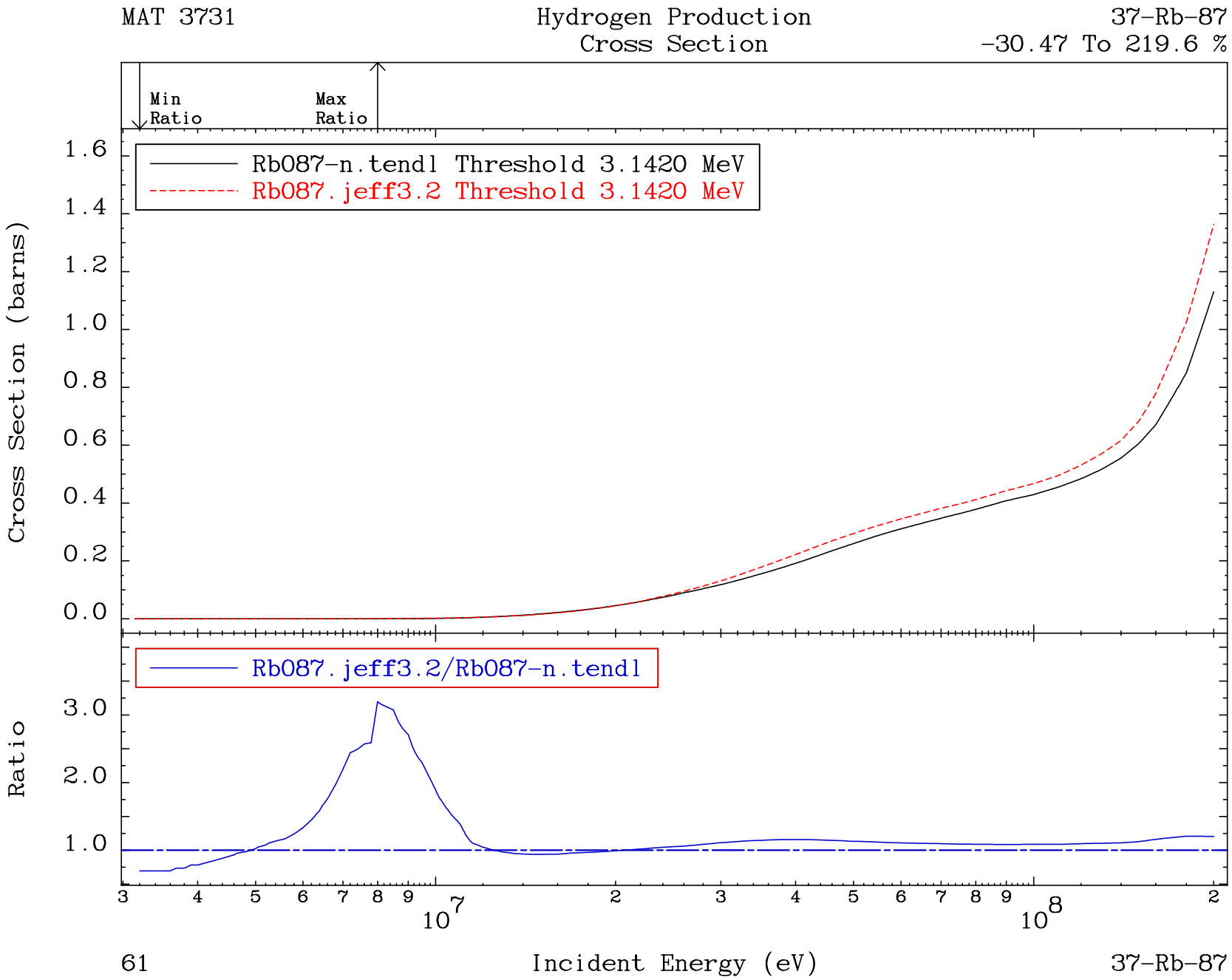

MAT 3731
(n,2p)
Cross Section
37-Rb-87
-86.82 To 0.000 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 15.652 MeV
Rb087.jeff3.2 Threshold 15.644 MeV
Cross Section (micro-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
37-Rb-87

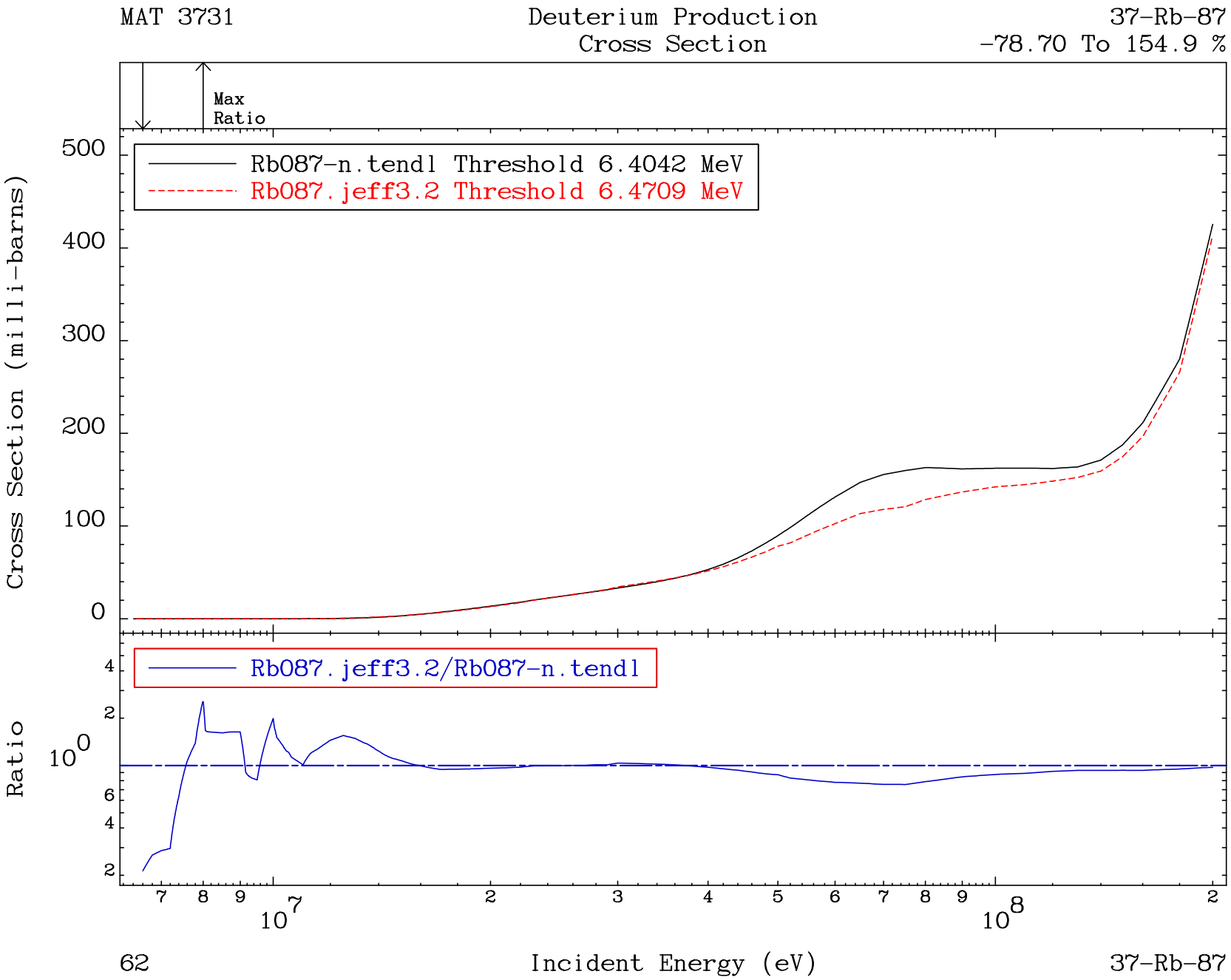

MAT 3731
(n,p) α
Cross Section
37-Rb-87
-86.22 To 0.000 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 11.026 MeV
Rb087.jeff3.2 Threshold 11.026 MeV
Cross Section (micro-barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
57
37-Rb-87

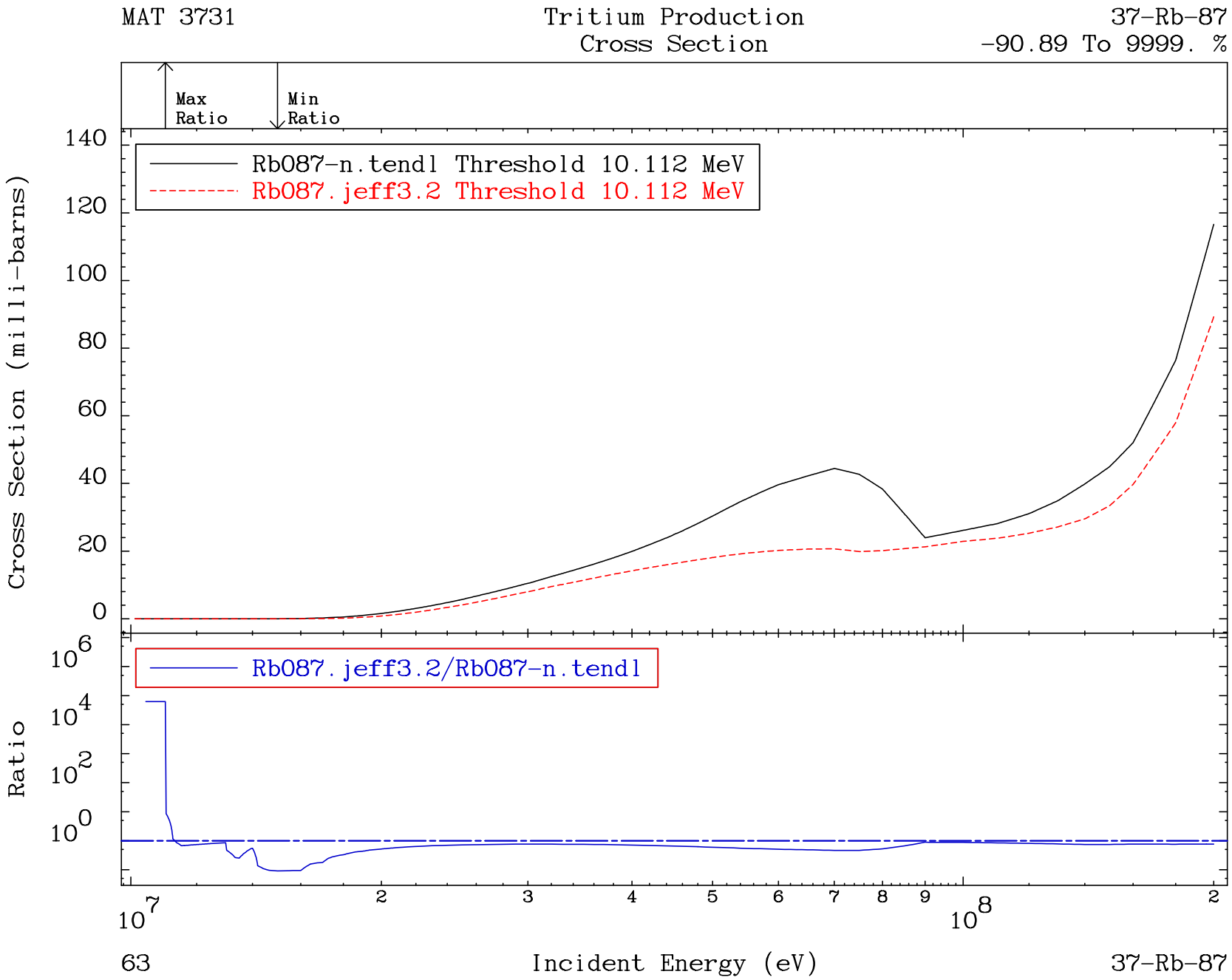

MAT 3731
(n,p) d
Cross Section
37-Rb-87
0.000 To 80.16 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 18.589 MeV
Rb087.jeff3.2 Threshold 18.554 MeV
Cross Section (10^-9 barns)
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
37-Rb-87

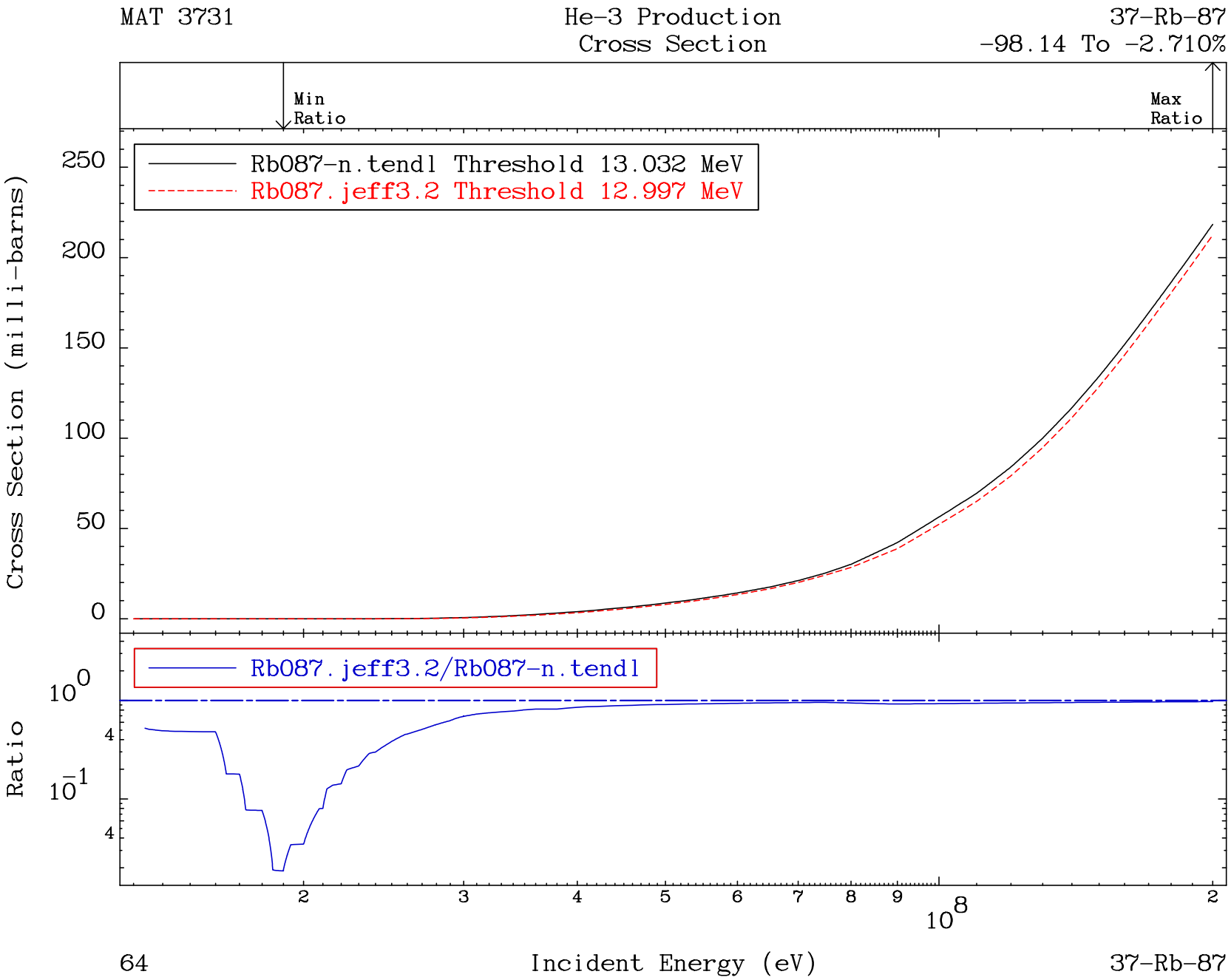

MAT 3731
(n,p) t
Cross Section
37-Rb-87
0.000 To 333.3 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 21.226 MeV
Rb087.jeff3.2 Threshold 21.209 MeV
Cross Section (10^{-9} barns)
30
25
20
15
10
5
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
4
2
20
40
60
80
100
120
140
160
180
200
59
Incident Energy (MeV)
37-Rb-87

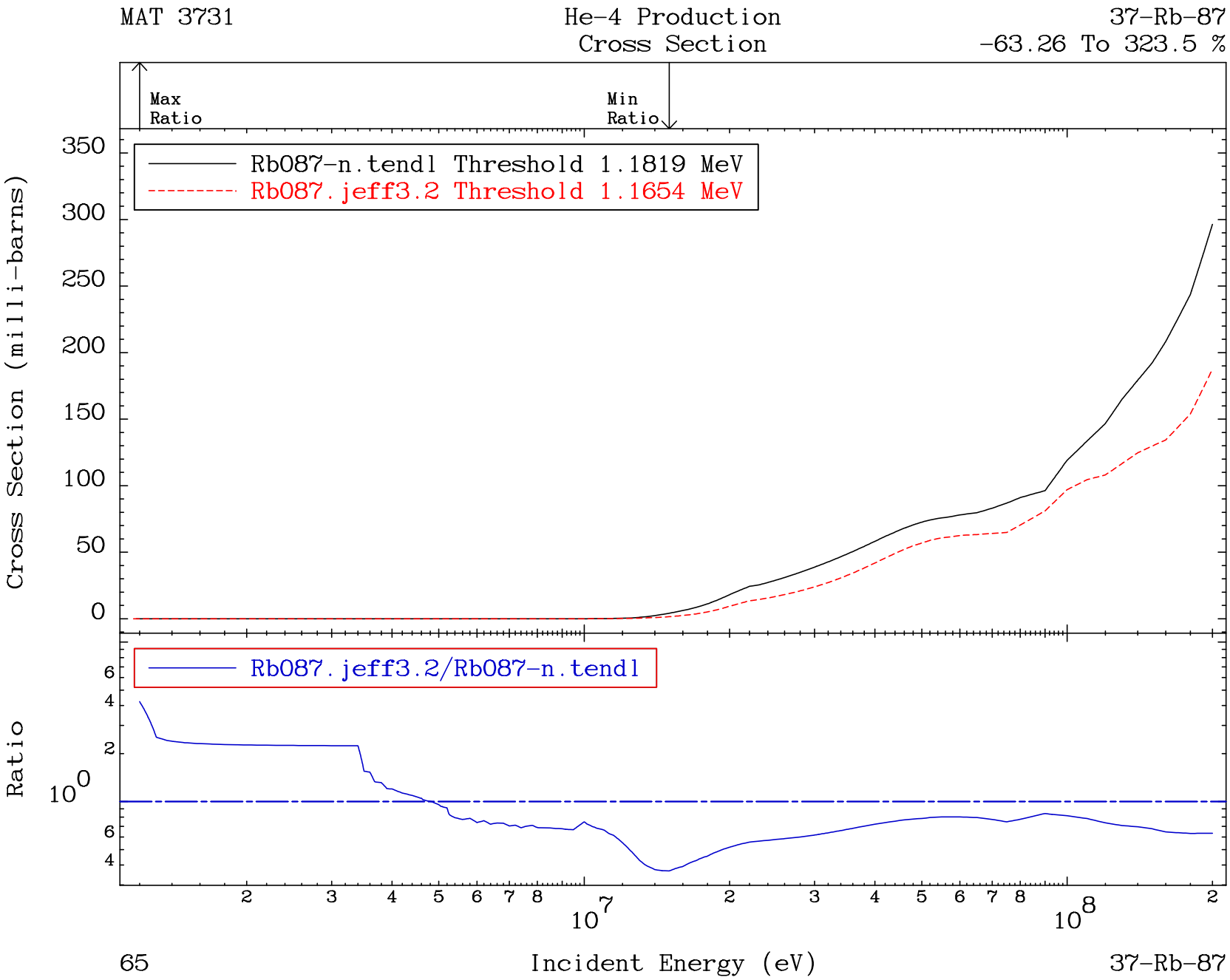

MAT 3731
(n,d) α
Cross Section
37-Rb-87
-61.91 To 0.000 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 14.661 MeV
Rb087.jeff3.2 Threshold 14.661 MeV
Cross Section (10^-9 barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
10^8
60
37-Rb-87

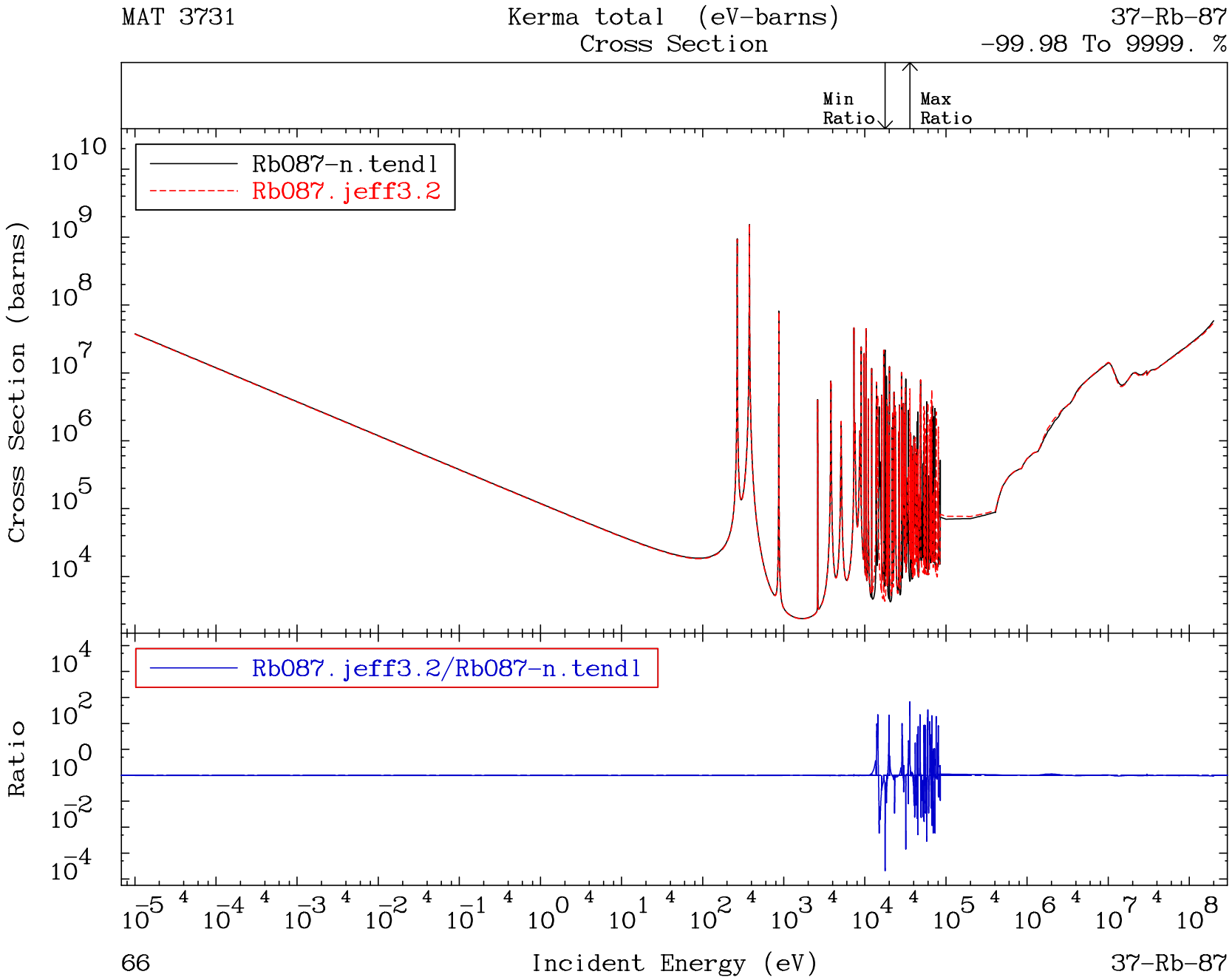

MAT 3731
Hydrogen Production
Cross Section
37-Rb-87
-30.47 To 219.6 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 3.1420 MeV
Rb087.jeff3.2 Threshold 3.1420 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
3.0
2.0
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
61
Incident Energy (eV)
37-Rb-87

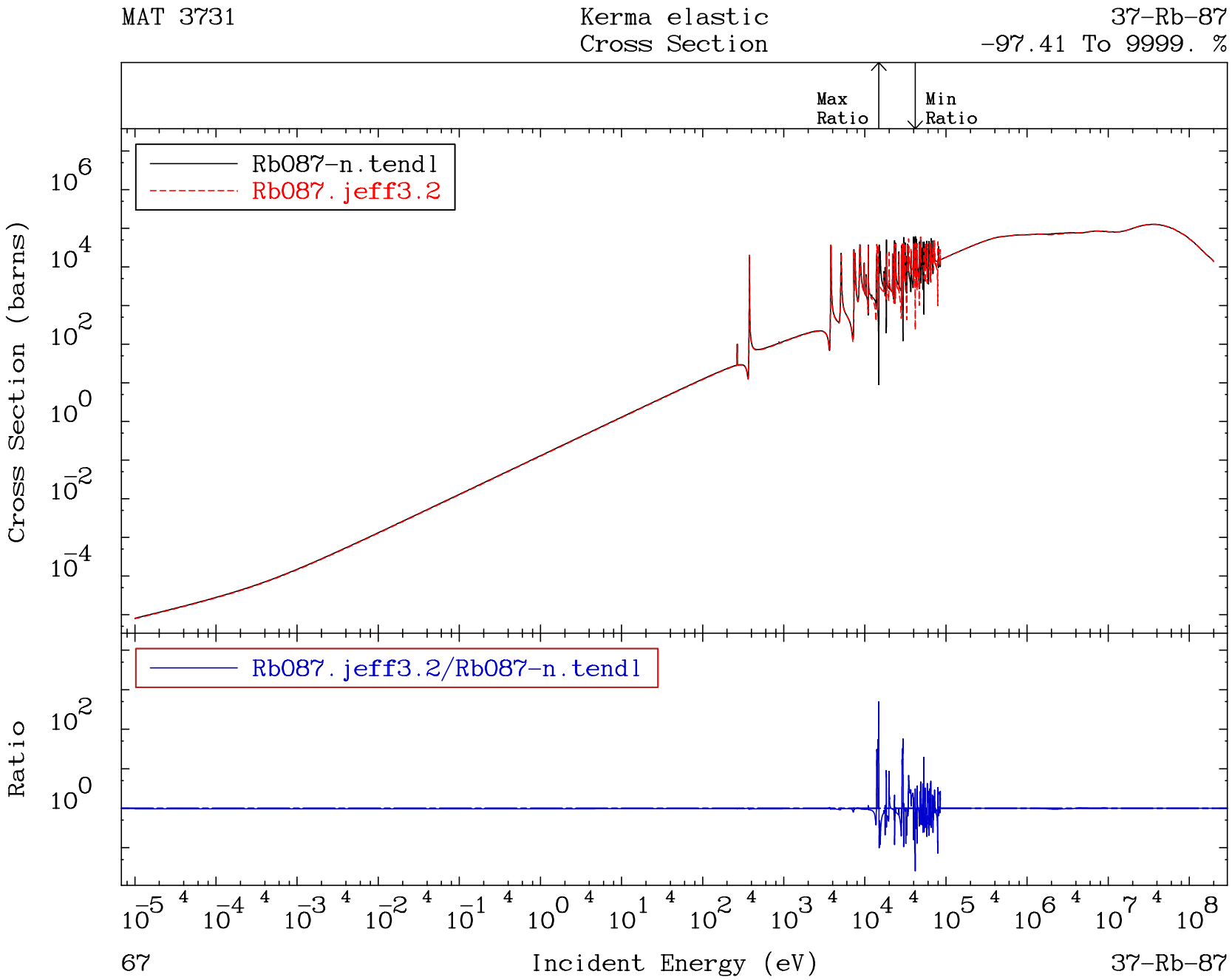

MAT 3731
Deuterium Production
Cross Section
37-Rb-87
-78.70 To 154.9 %
Max
Ratio
Rb087-n.tendl Threshold 6.4042 MeV
Rb087.jeff3.2 Threshold 6.4709 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
4
2
10^0
6
4
2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
62
Incident Energy (eV)
37-Rb-87

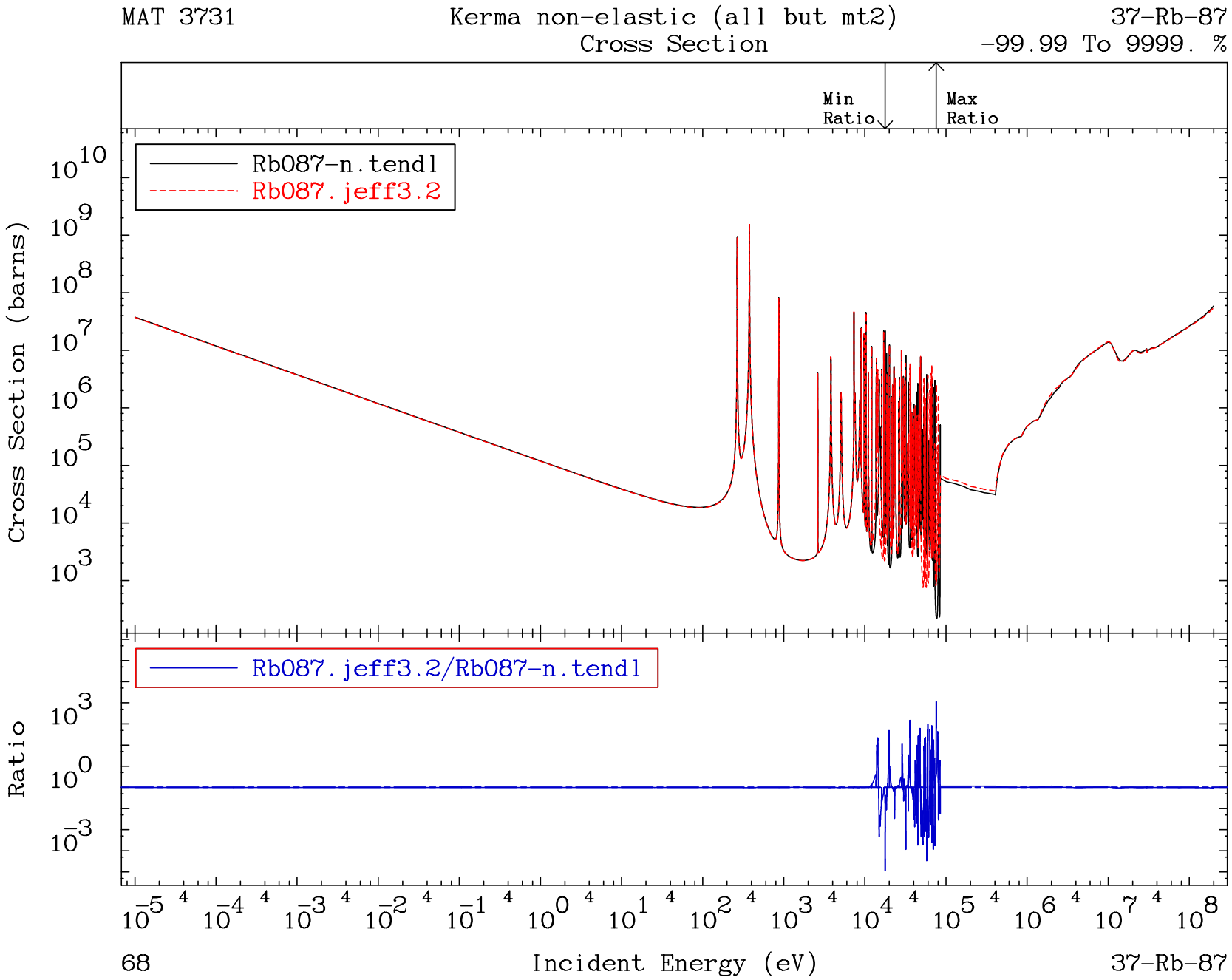

MAT 3731
Tritium Production
Cross Section
37-Rb-87
-90.89 To 9999. %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 10.112 MeV
Rb087.jeff3.2 Threshold 10.112 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^6
10^4
10^2
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
37-Rb-87

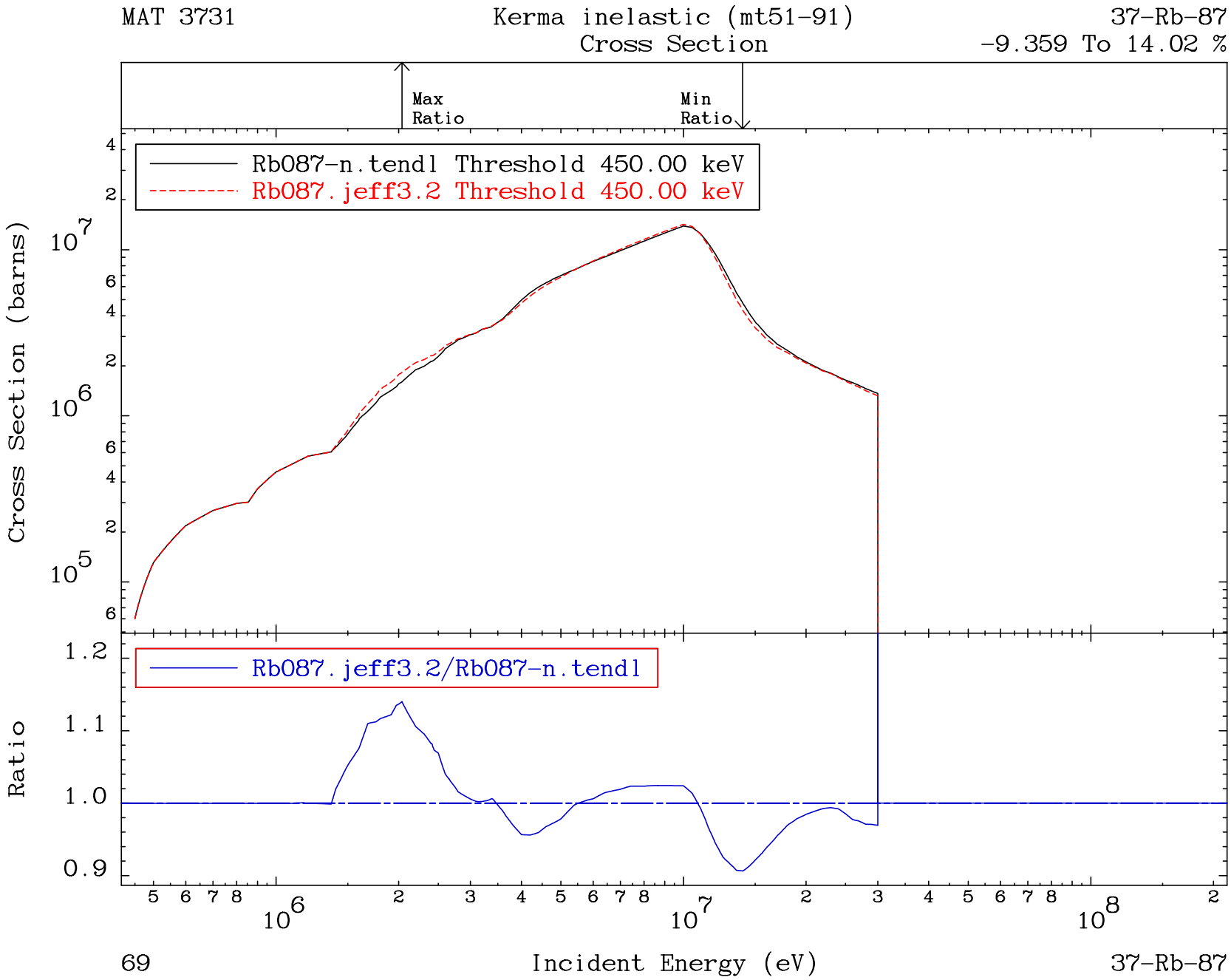

MAT 3731
He-3 Production
Cross Section
37-Rb-87
-98.14 To -2.710%
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 13.032 MeV
Rb087.jeff3.2 Threshold 12.997 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
64
Incident Energy (eV)
37-Rb-87

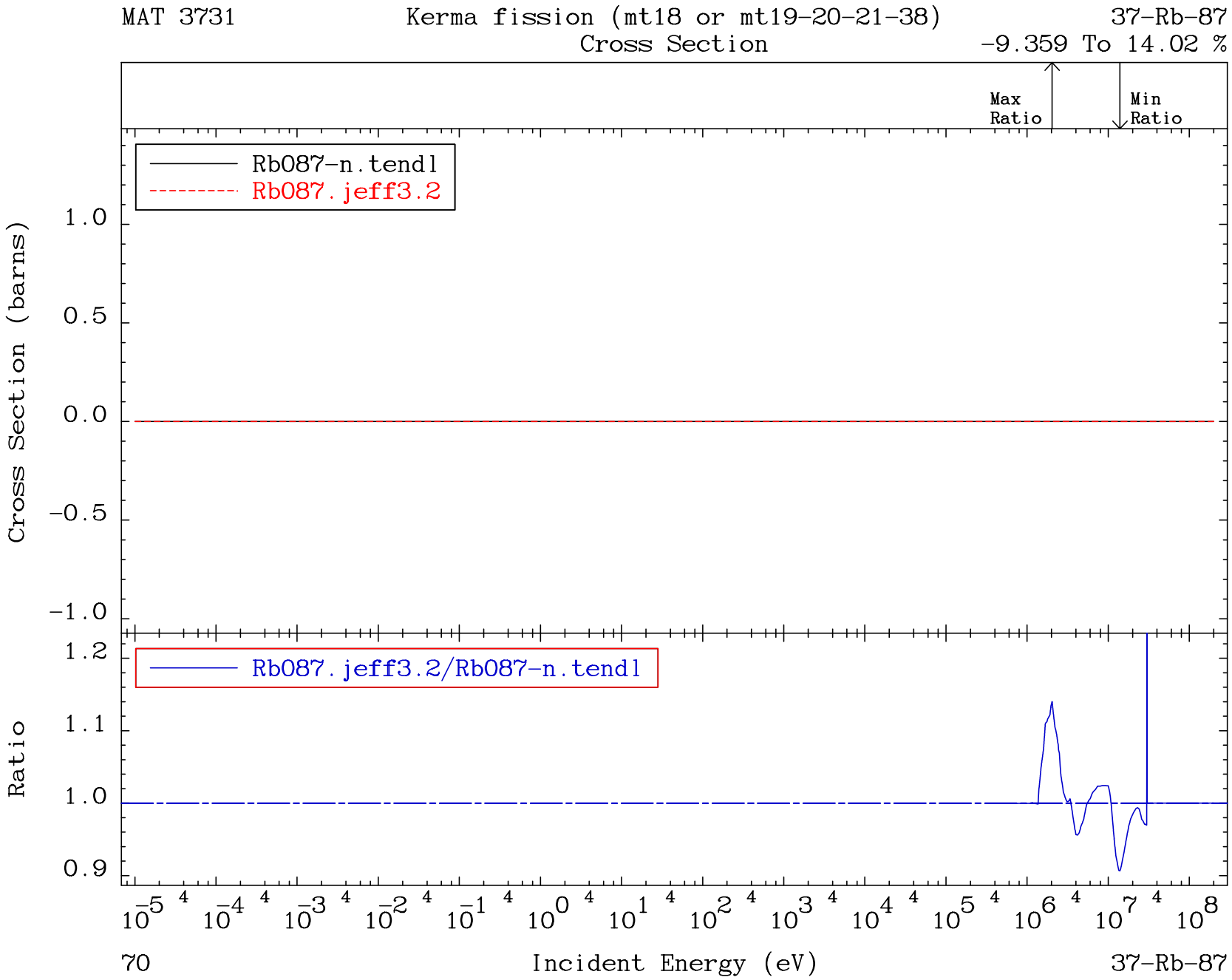

MAT 3731
He-4 Production
Cross Section
37-Rb-87
-63.26 To 323.5 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 1.1819 MeV
Rb087.jeff3.2 Threshold 1.1654 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
6
4
2
10^0
6
4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
65
Incident Energy (eV)
37-Rb-87

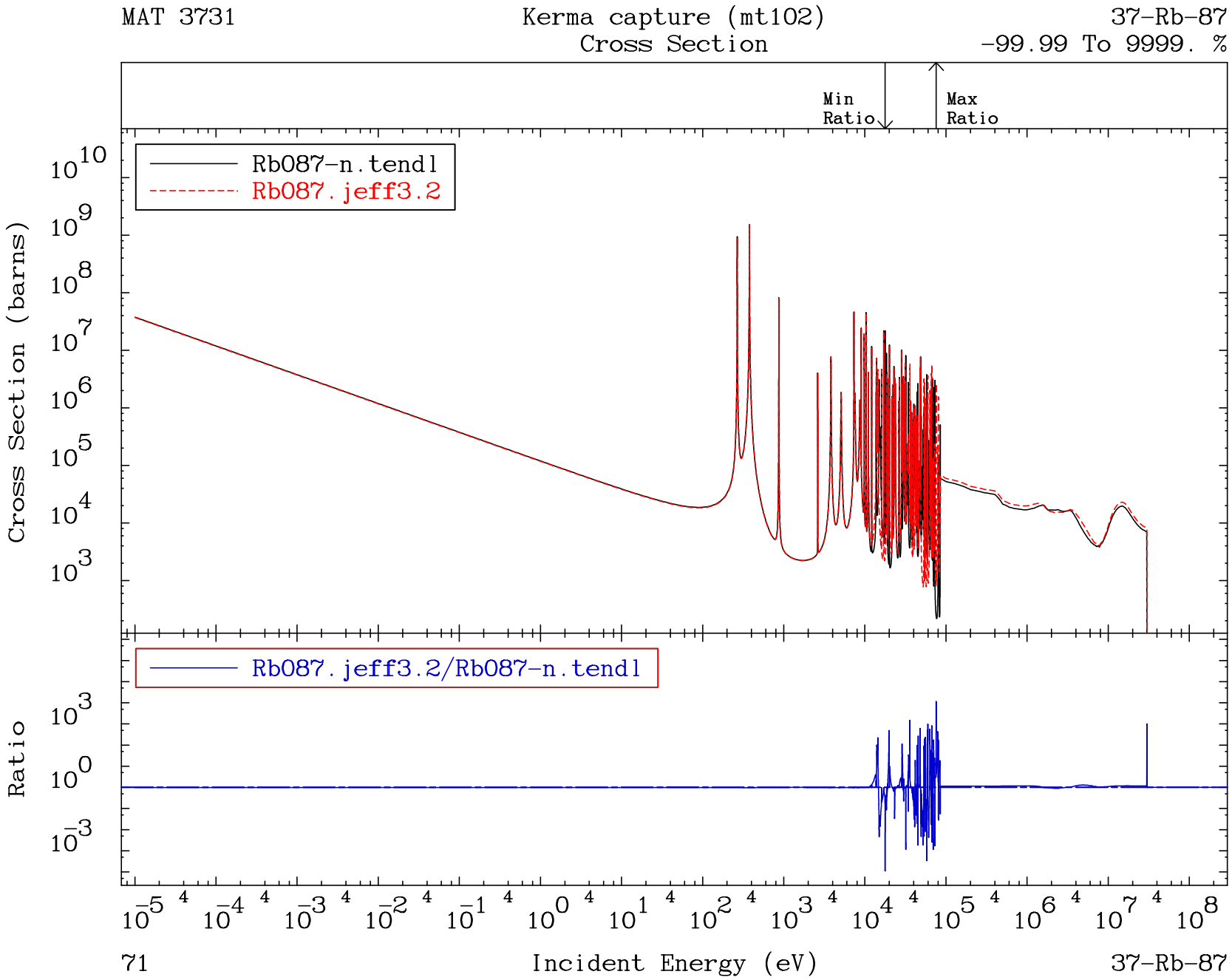

MAT 3731
Kerma total (eV-barns)
Cross Section
37-Rb-87
-99.98 To 9999. %
Min Ratio
Max Ratio
Rb087-n.tendl
Rb087.jeff3.2
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
66
37-Rb-87

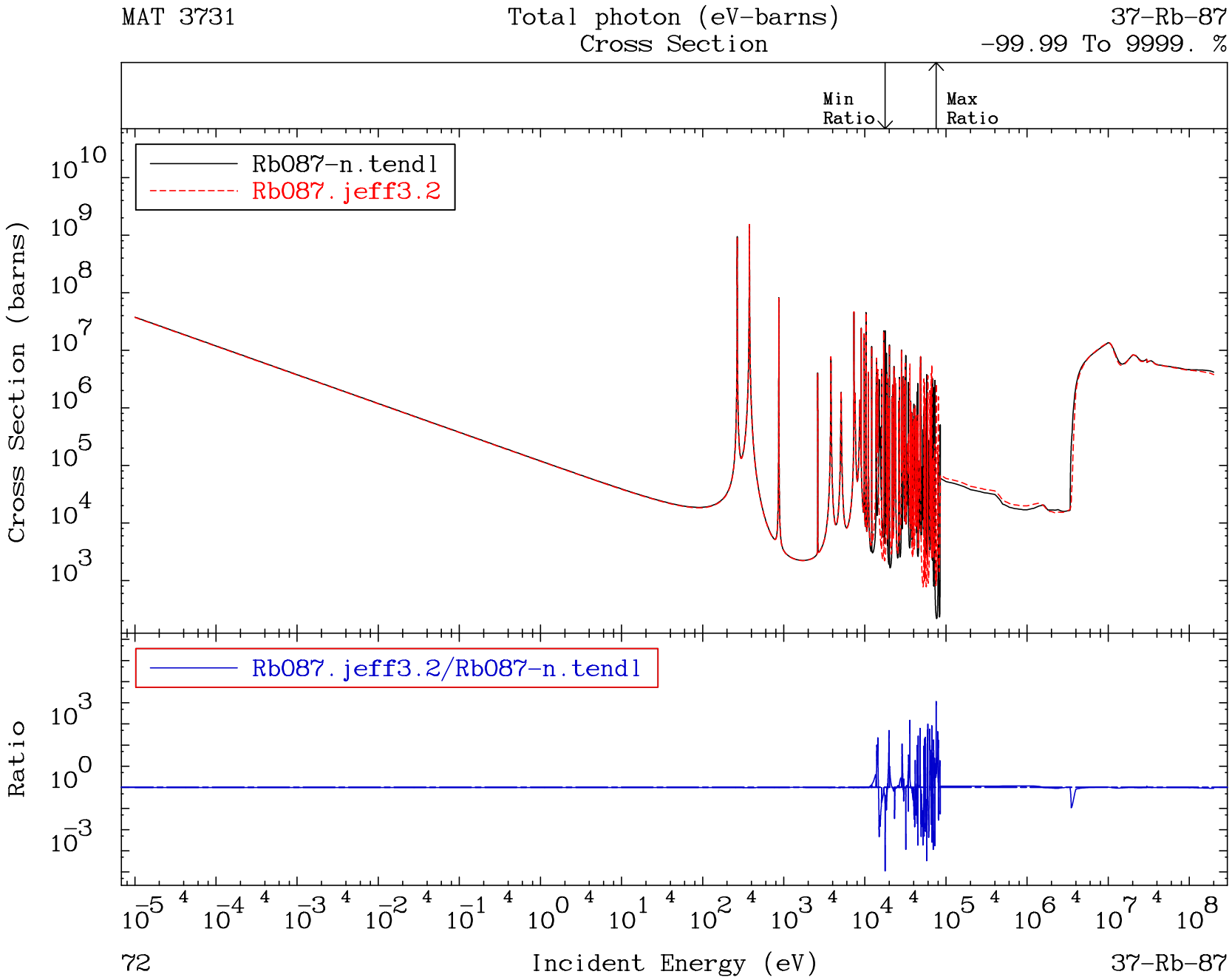

MAT 3731
Kerma elastic
Cross Section
37-Rb-87
-97.41 To 9999. %
Max Ratio
Min Ratio
Rb087-n.tendl
Rb087.jeff3.2
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
67
37-Rb-87

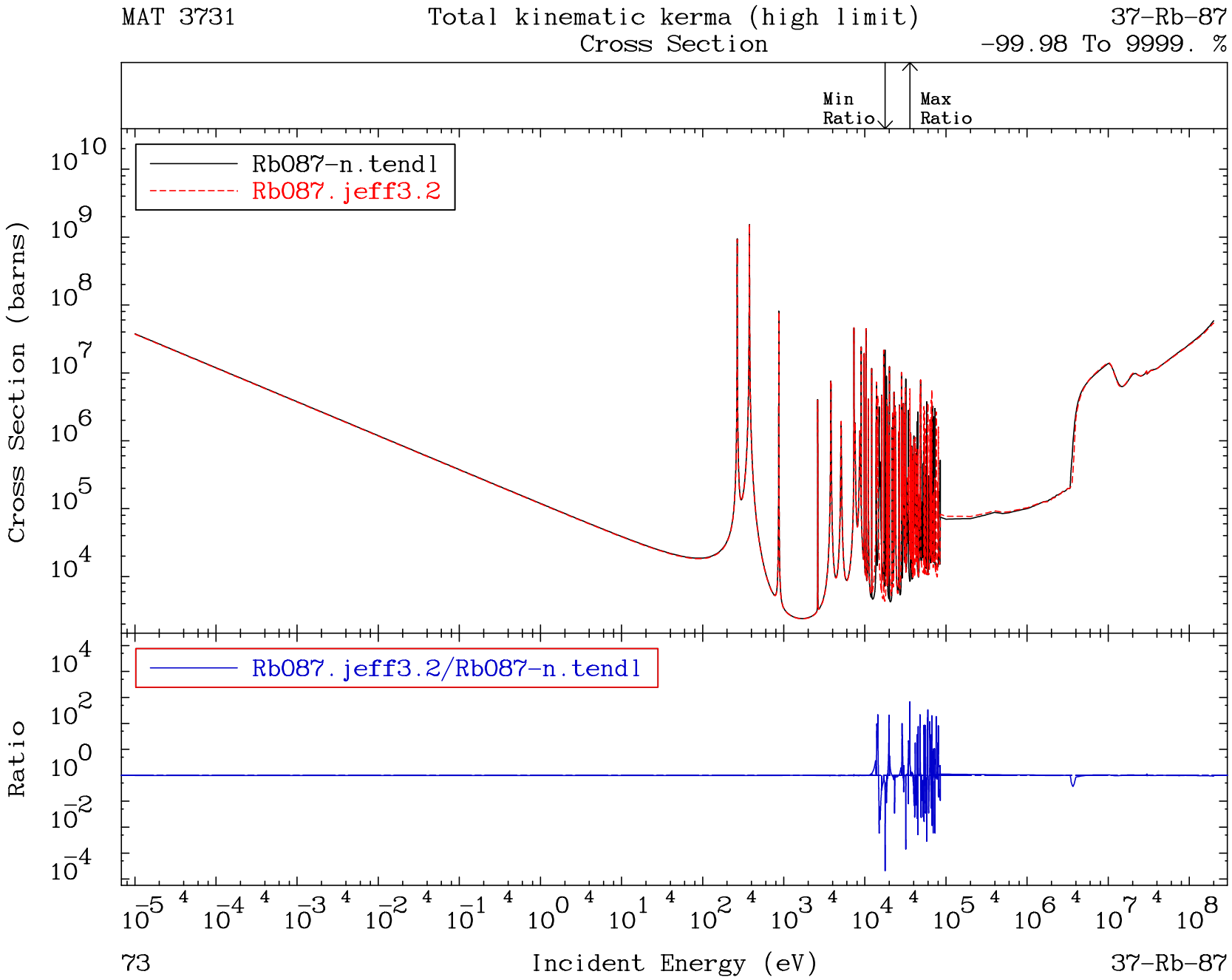

MAT 3731
Kerma non-elastic (all but mt2)
Cross Section
37-Rb-87
-99.99 To 9999. %
Min Ratio
Max Ratio
Rb087-n.tendl
Rb087.jeff3.2
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
68
37-Rb-87

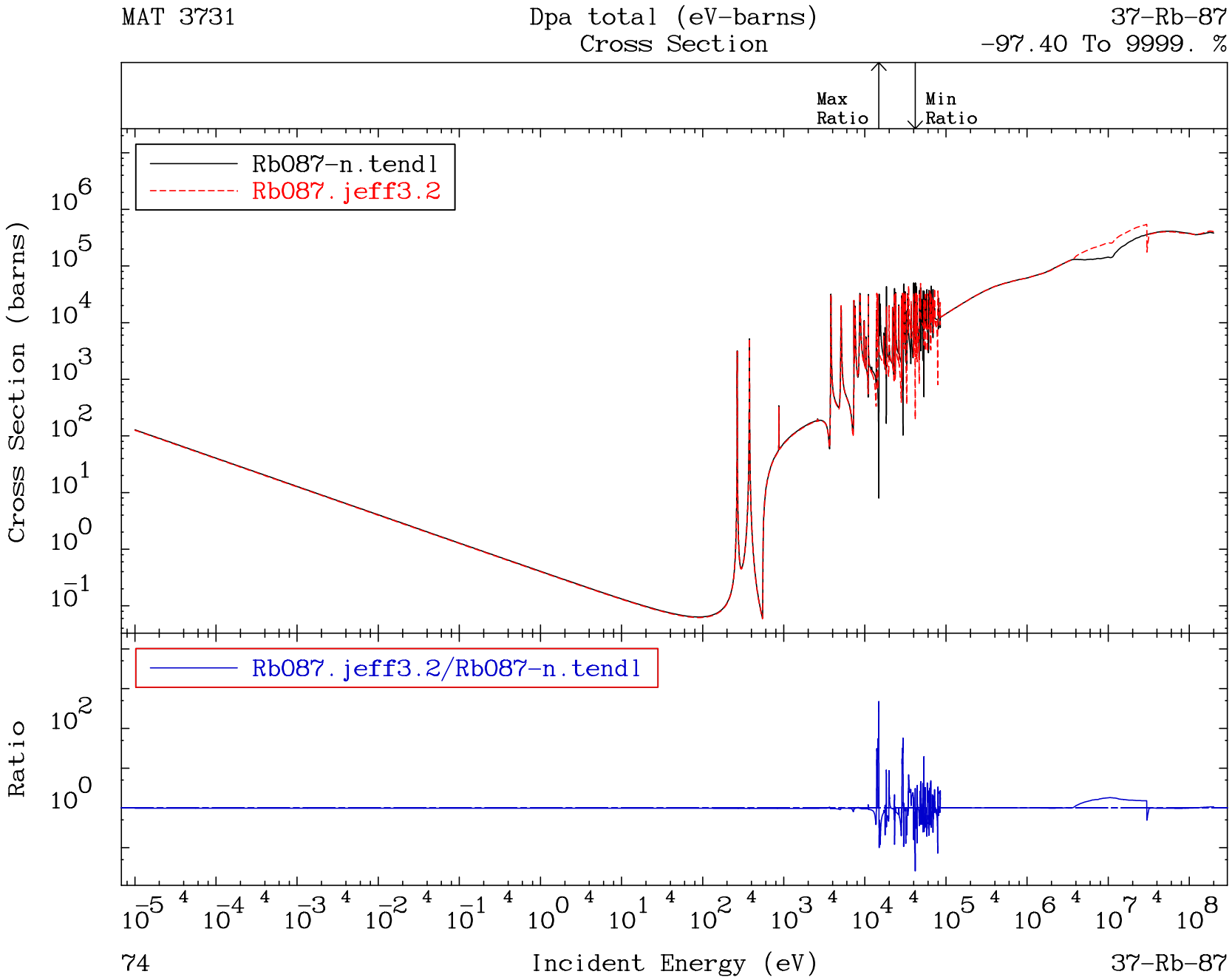

MAT 3731
Kerma inelastic (mt51-91)
Cross Section
37-Rb-87
-9.359 To 14.02 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 450.00 keV
Rb087.jeff3.2 Threshold 450.00 keV
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
69
37-Rb-87

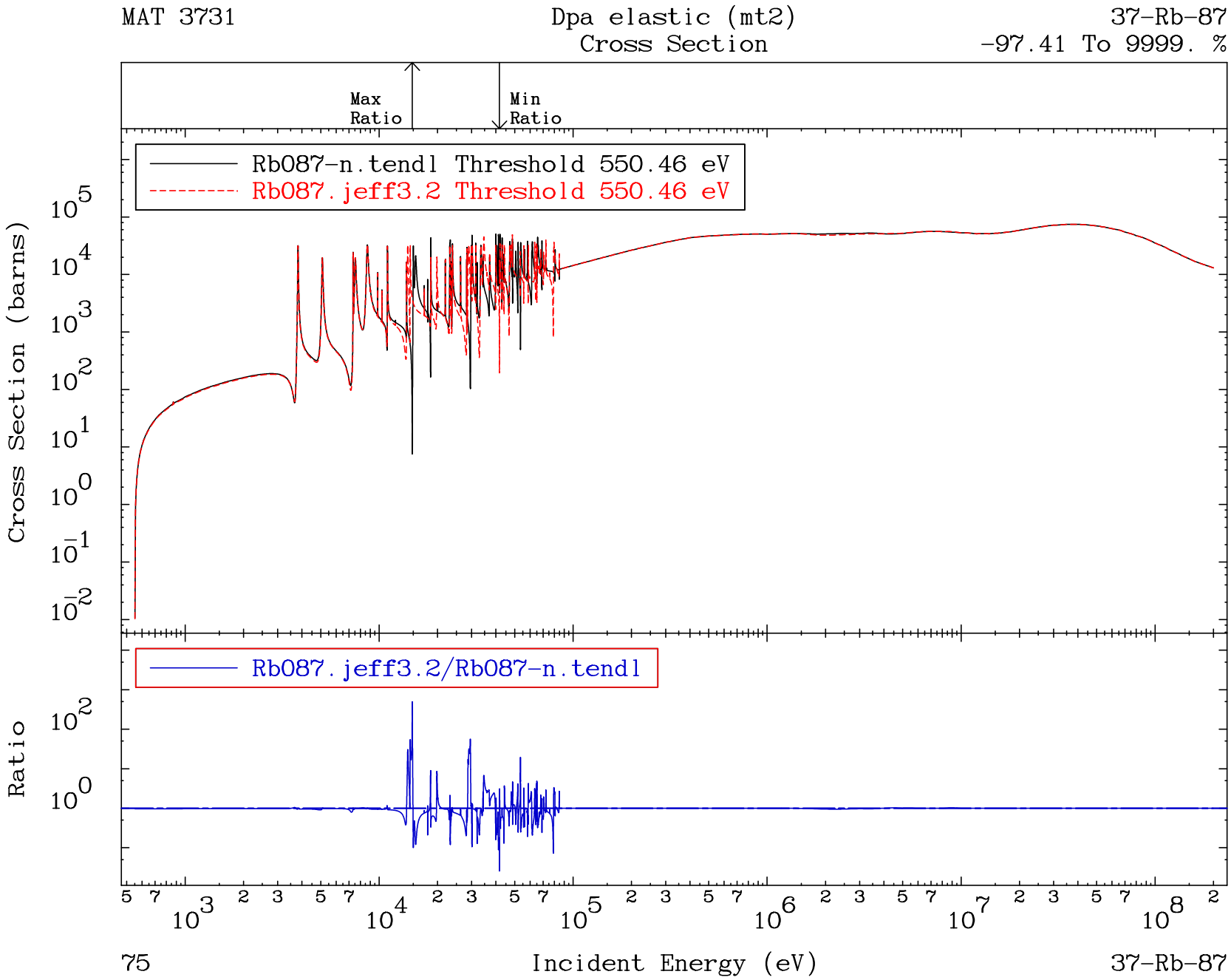

MAT 3731
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
37-Rb-87
-9.359 To 14.02 %
Max Ratio
Min Ratio
Rb087-n.tendl
Rb087.jeff3.2
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
1.1
1.0
0.9
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
70
Incident Energy (eV)
37-Rb-87

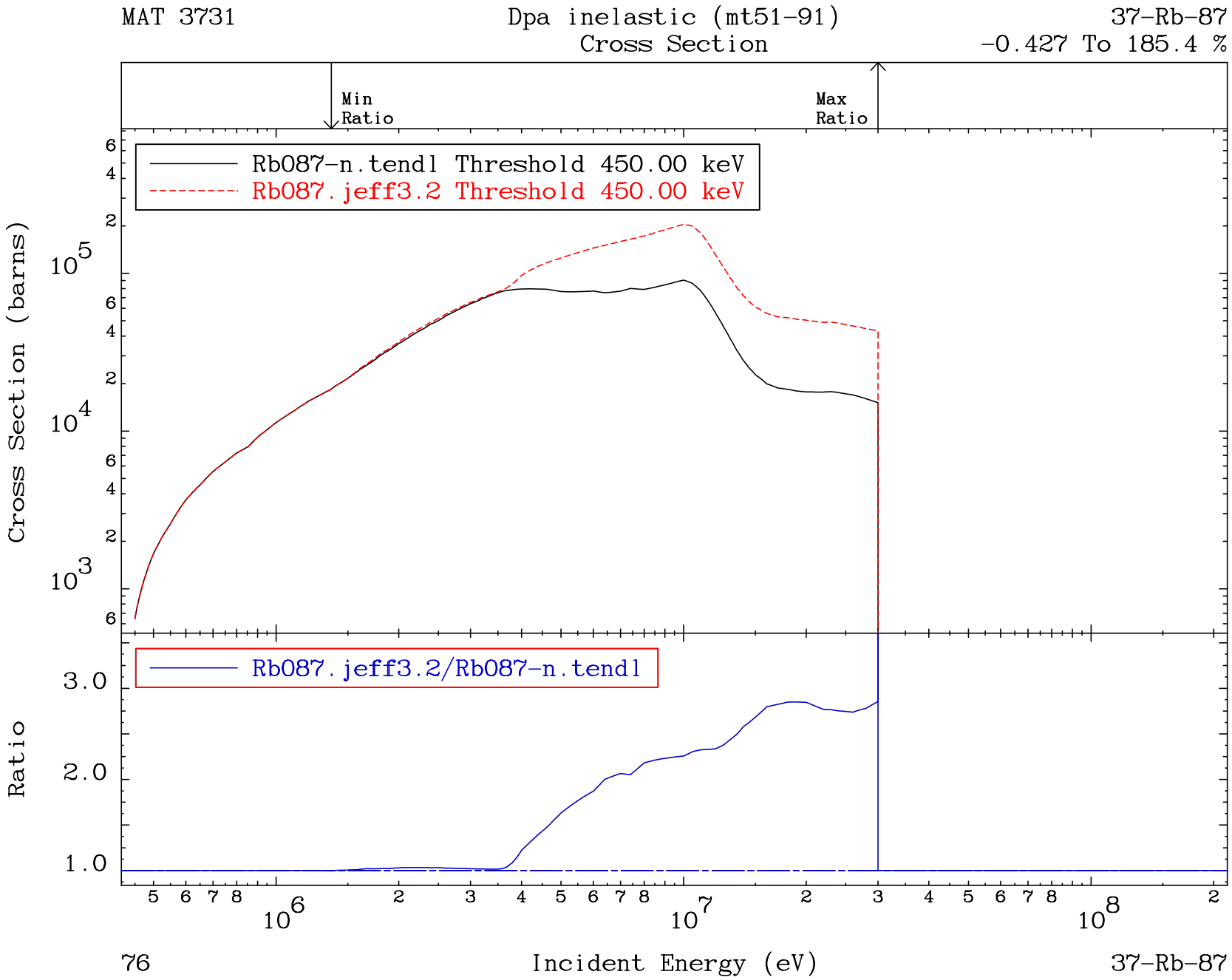

MAT 3731
Kerma capture (mt102)
Cross Section
37-Rb-87
-99.99 To 9999. %
Min Ratio
Max Ratio
Rb087-n.tendl
Rb087.jeff3.2
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
71
37-Rb-87

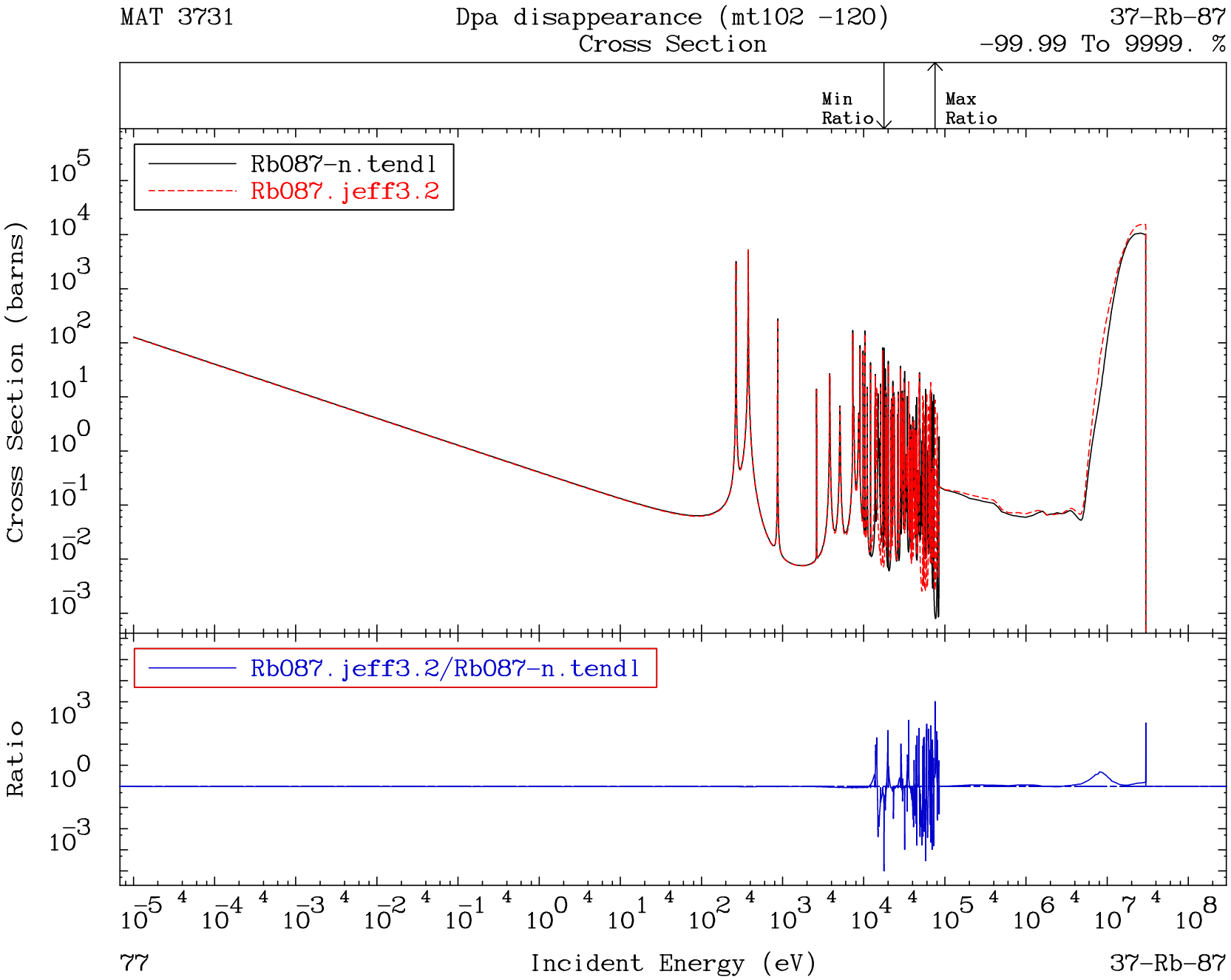

MAT 3731
Total photon (eV-barns)
Cross Section
37-Rb-87
-99.99 To 9999. %
Min Ratio
Max Ratio
Rb087-n.tendl
Rb087.jeff3.2
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
72
37-Rb-87

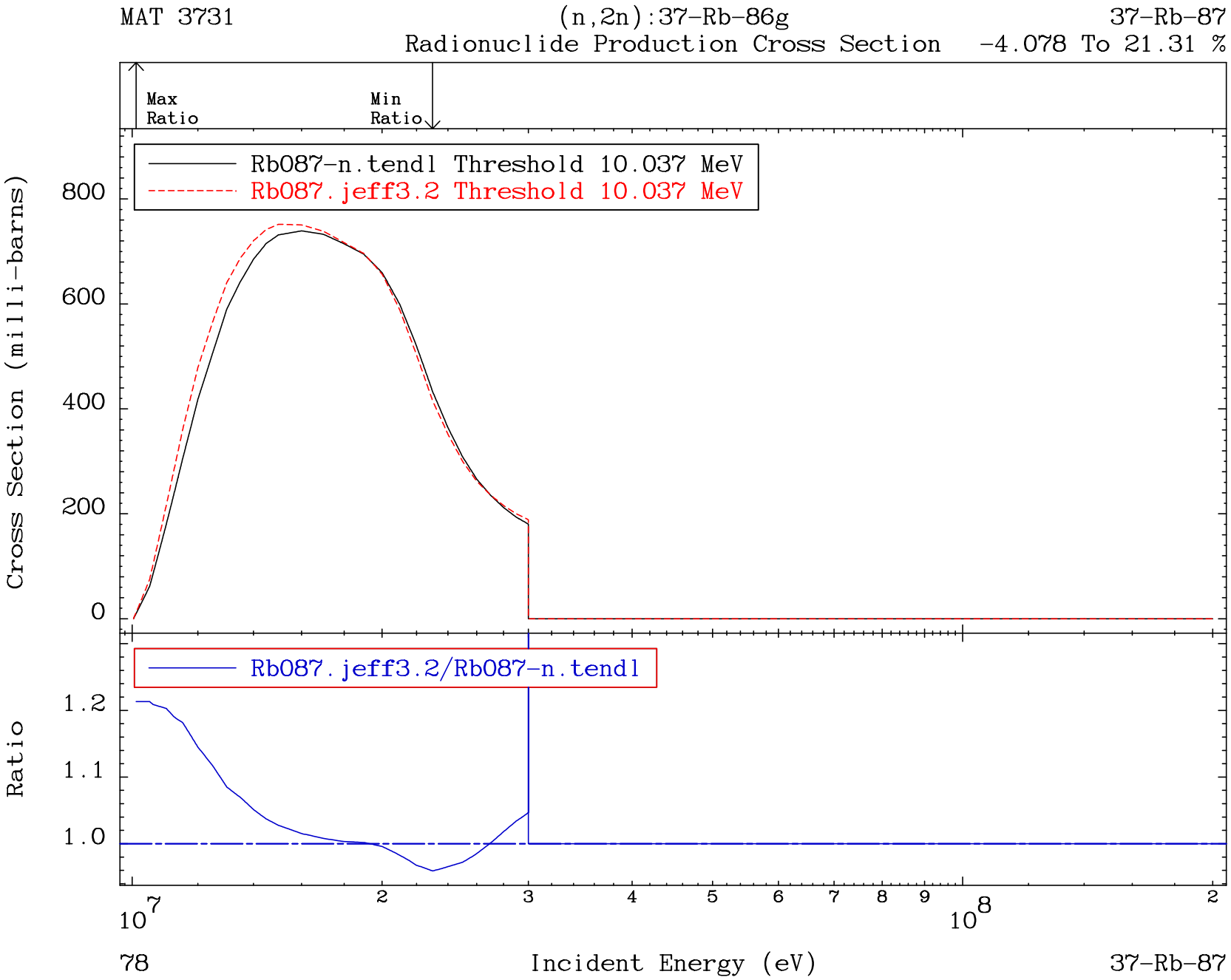

MAT 3731
Total kinematic kerma (high limit)
Cross Section
37-Rb-87
-99.98 To 9999. %
Min Ratio
Max Ratio
Rb087-n.tendl
Rb087.jeff3.2
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
73
37-Rb-87

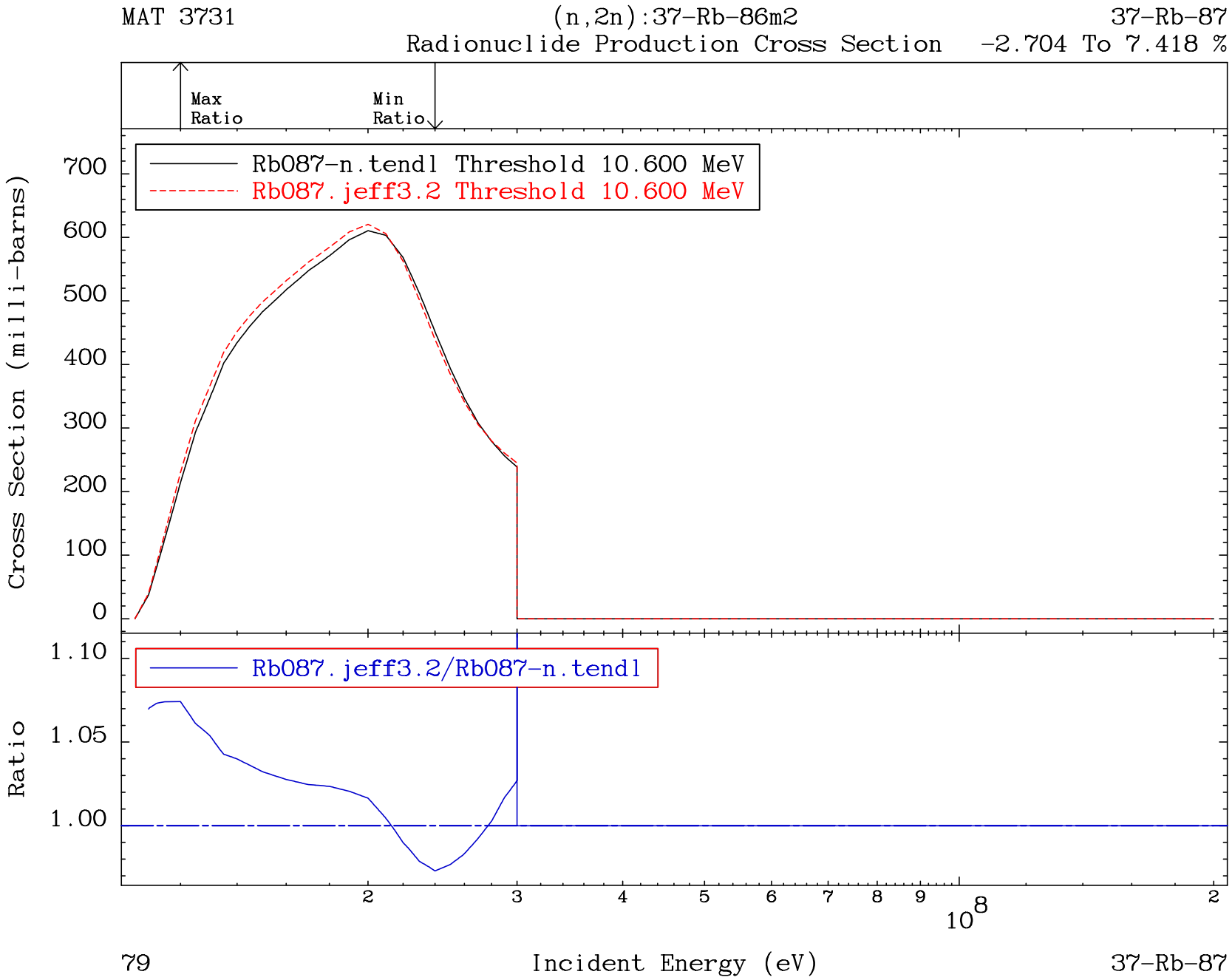

MAT 3731
Dpa total (eV-barns)
Cross Section
37-Rb-87
-97.40 To 9999. %
Max Ratio
Min Ratio
Rb087-n.tendl
Rb087.jeff3.2
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
74
Incident Energy (eV)
37-Rb-87

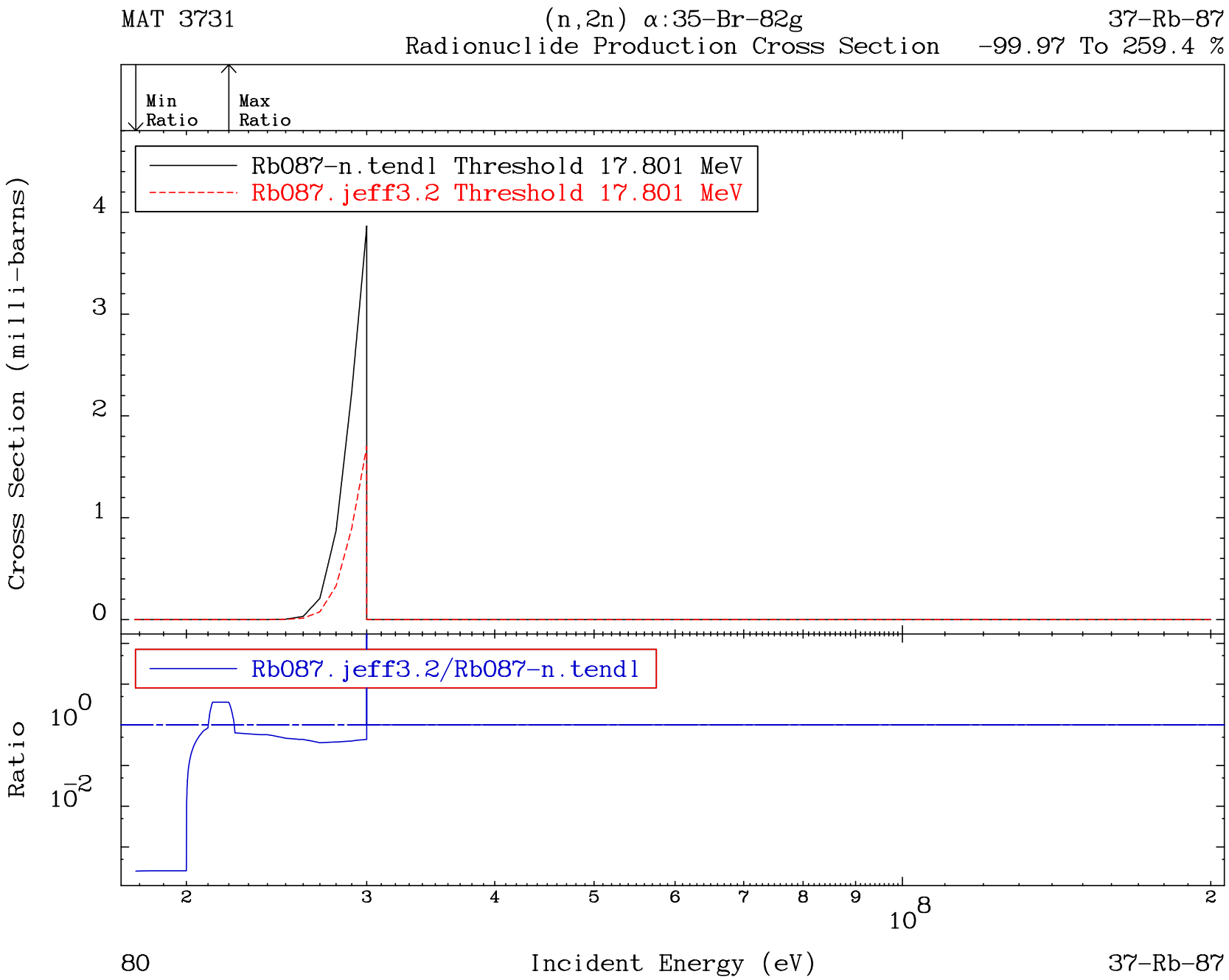

MAT 3731
Dpa elastic (mt2)
Cross Section
37-Rb-87
-97.41 To 9999. %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 550.46 eV
Rb087.jeff3.2 Threshold 550.46 eV
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
75
37-Rb-87

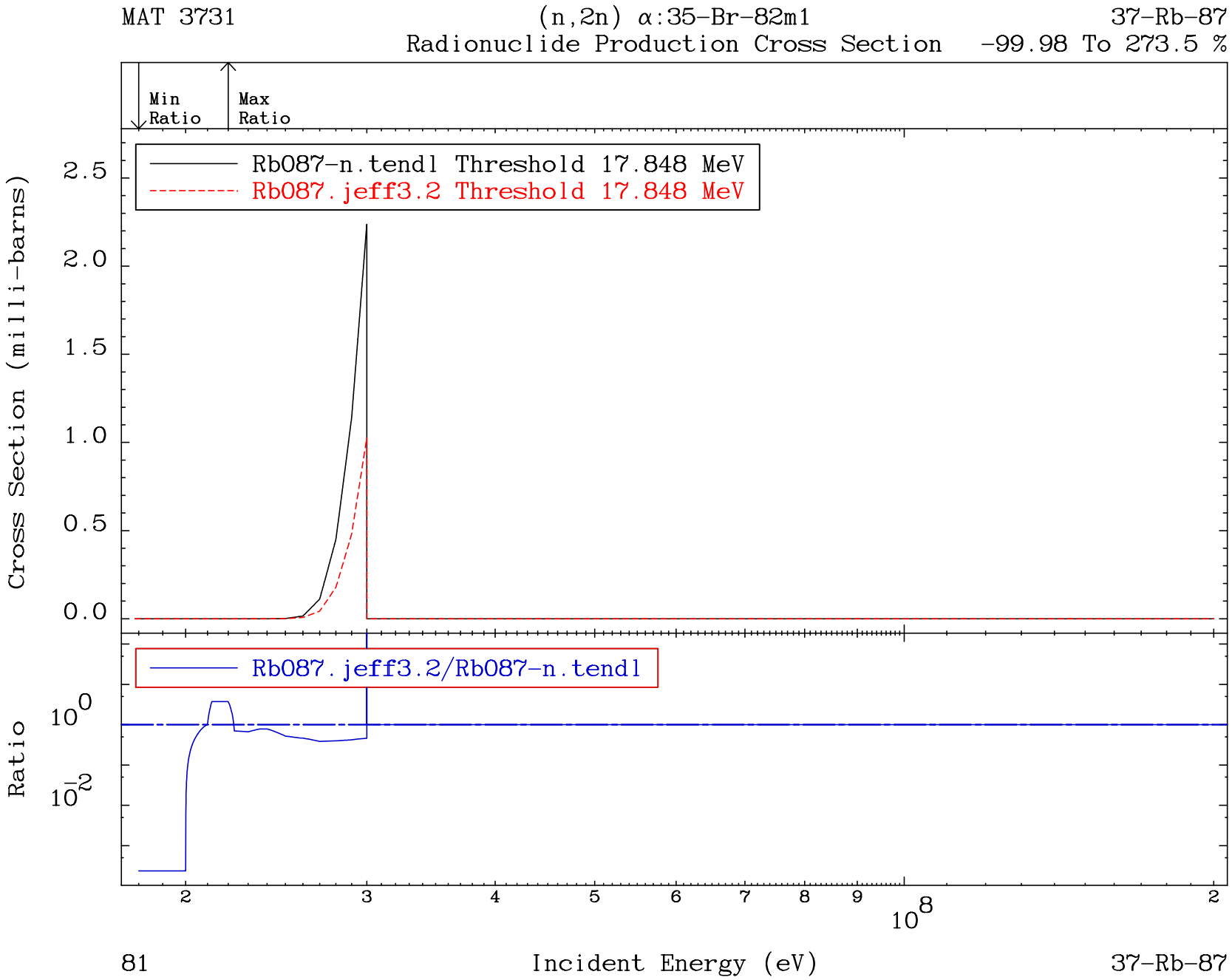

MAT 3731
Dpa inelastic (mt51-91)
Cross Section
37-Rb-87
-0.427 To 185.4 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 450.00 keV
Rb087.jeff3.2 Threshold 450.00 keV
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
76
37-Rb-87

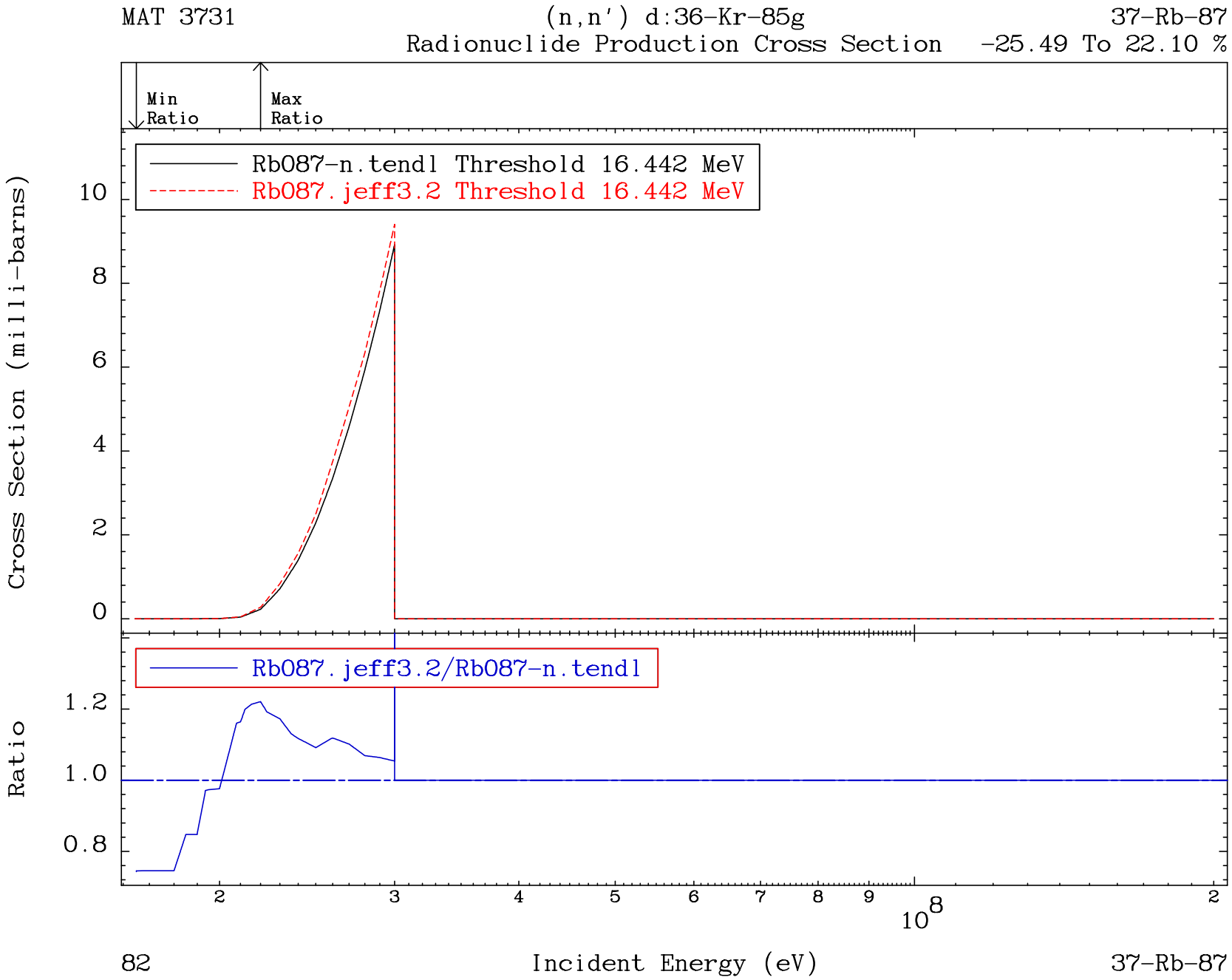

MAT 3731
Dpa disappearance (mt102 -120)
Cross Section
37-Rb-87
-99.99 To 9999. %
Min Ratio
Max Ratio
Rb087-n.tendl
Rb087.jeff3.2
Cross Section (barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
77
37-Rb-87

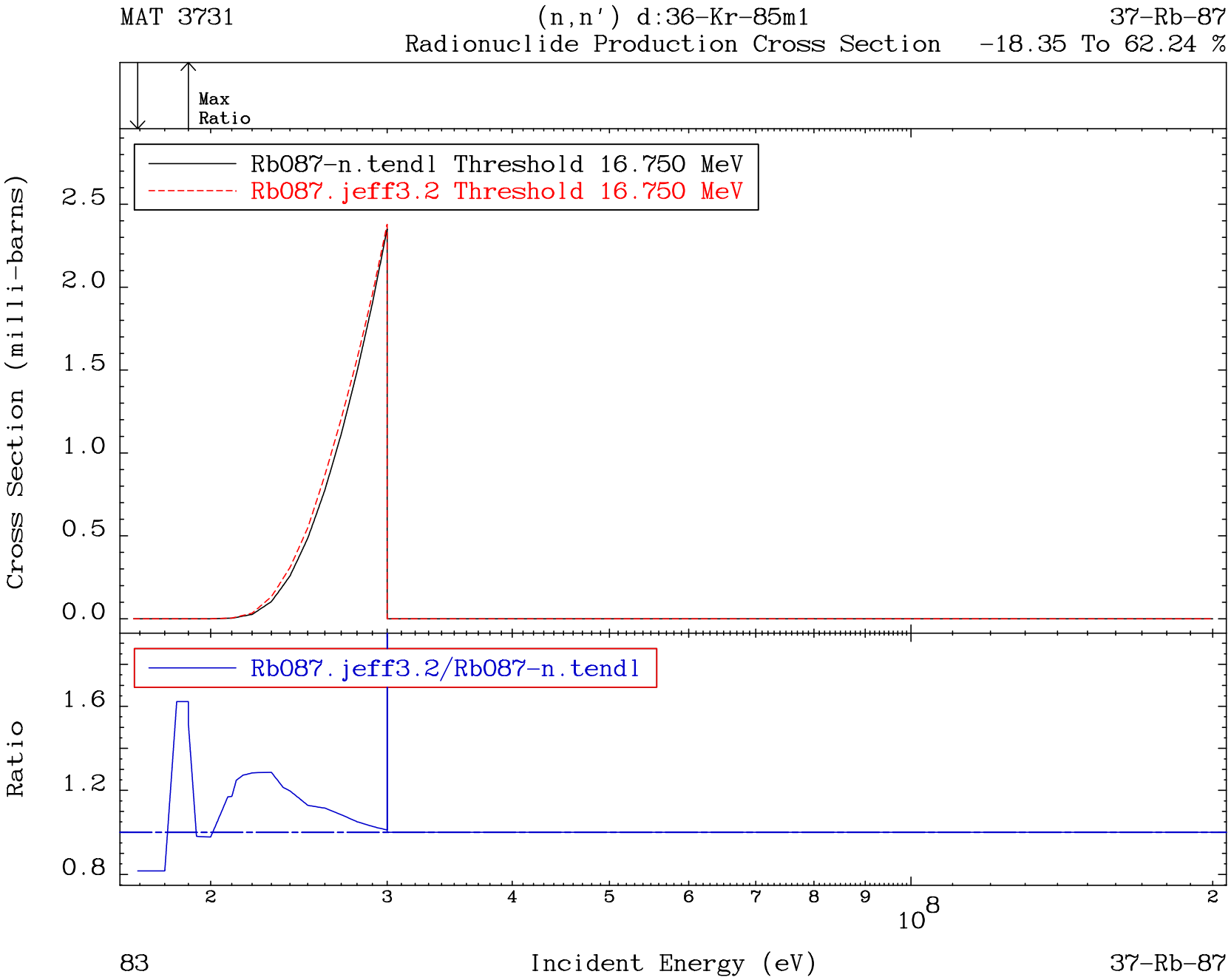

MAT 3731
(n,2n):37-Rb-86g
37-Rb-87
Radionuclide Production Cross Section -4.078 To 21.31 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 10.037 MeV
Rb087.jeff3.2 Threshold 10.037 MeV
Cross Section (milli-barns)
800
600
400
200
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
1.1
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
37-Rb-87

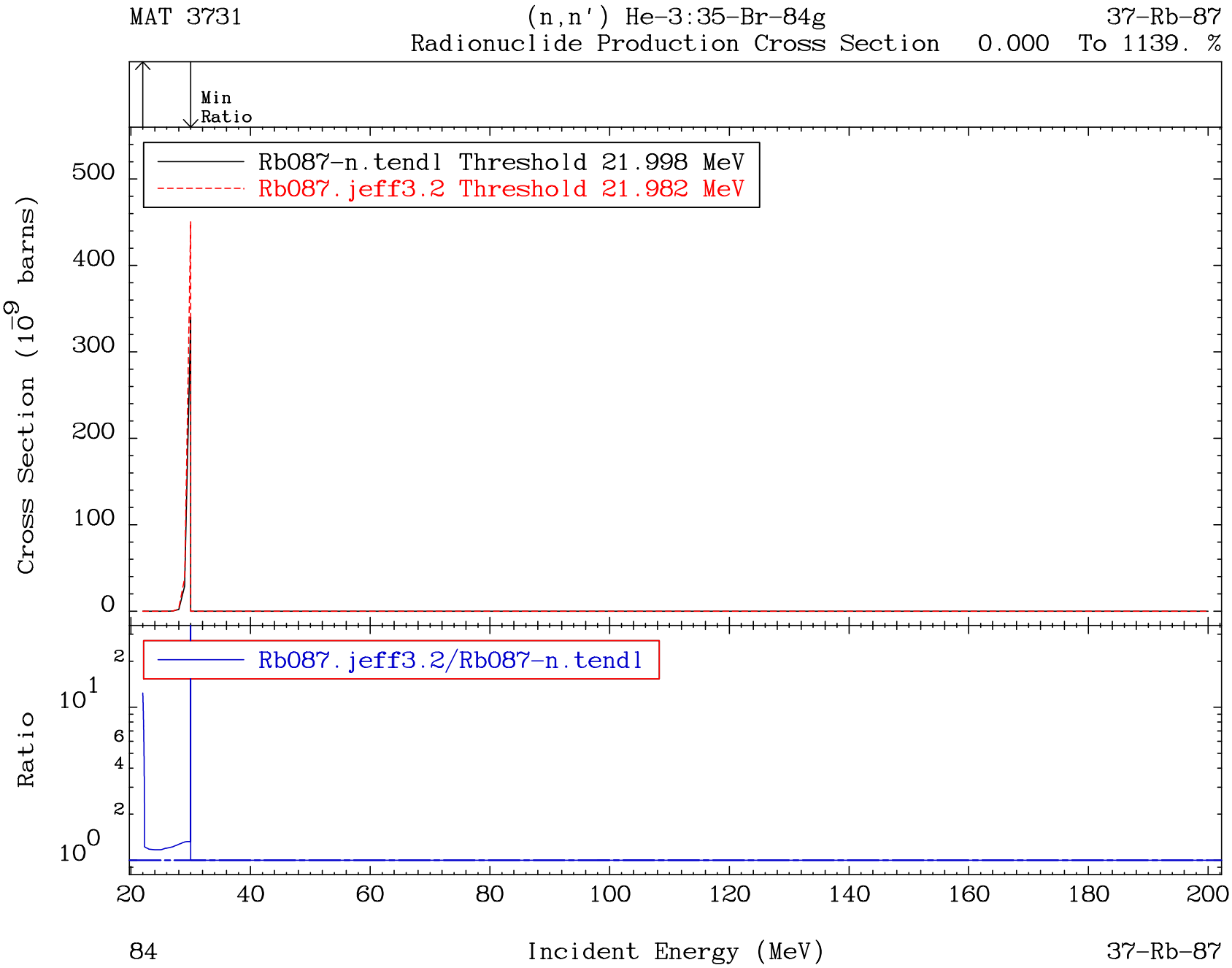

MAT 3731
(n,2n):37-Rb-86m2
37-Rb-87
Radionuclide Production Cross Section -2.704 To 7.418 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 10.600 MeV
Rb087.jeff3.2 Threshold 10.600 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
37-Rb-87

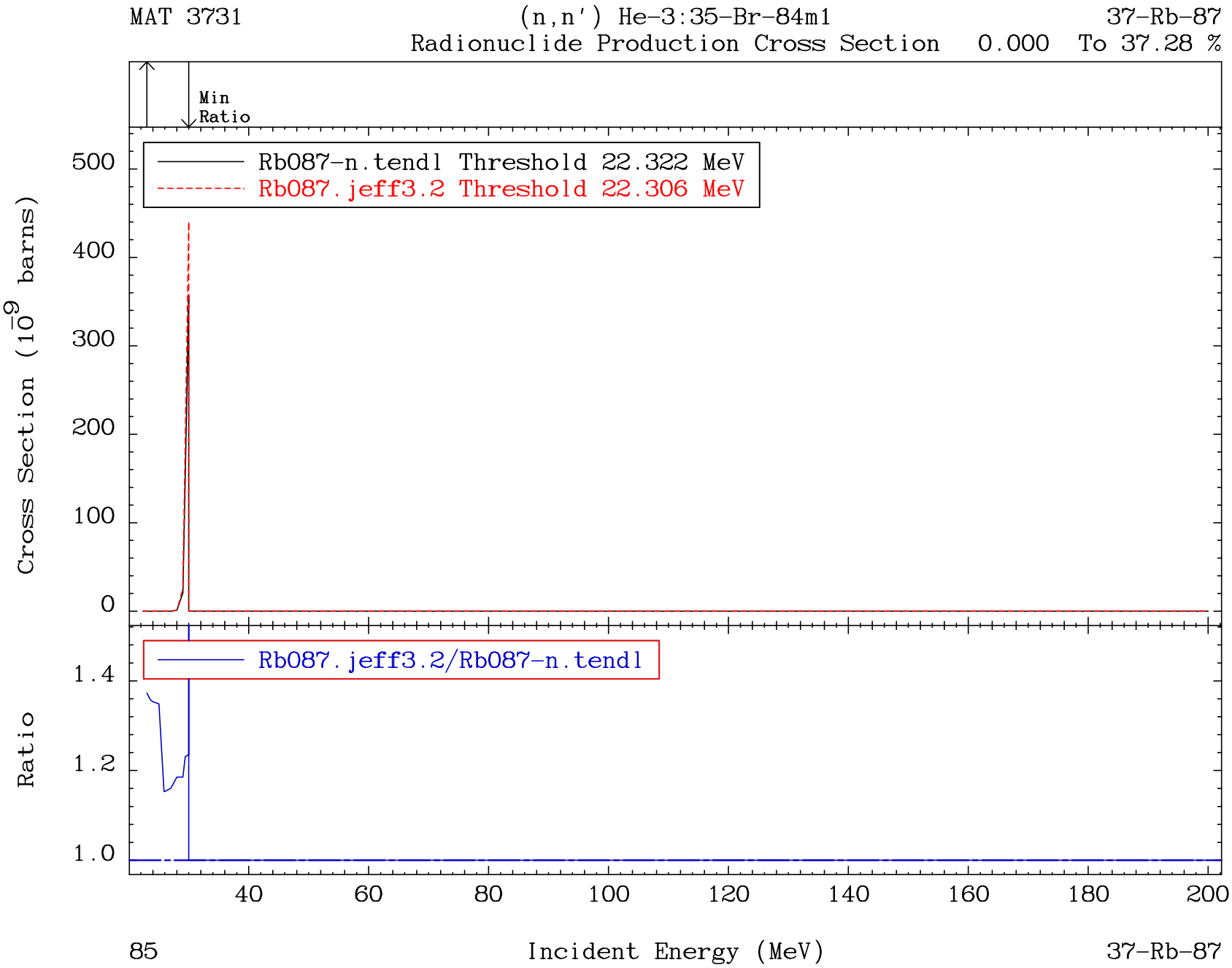

MAT 3731
(n,2n) α:35-Br-82g
37-Rb-87
Radionuclide Production Cross Section -99.97 To 259.4 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 17.801 MeV
Rb087.jeff3.2 Threshold 17.801 MeV
Cross Section (milli-barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
80
37-Rb-87

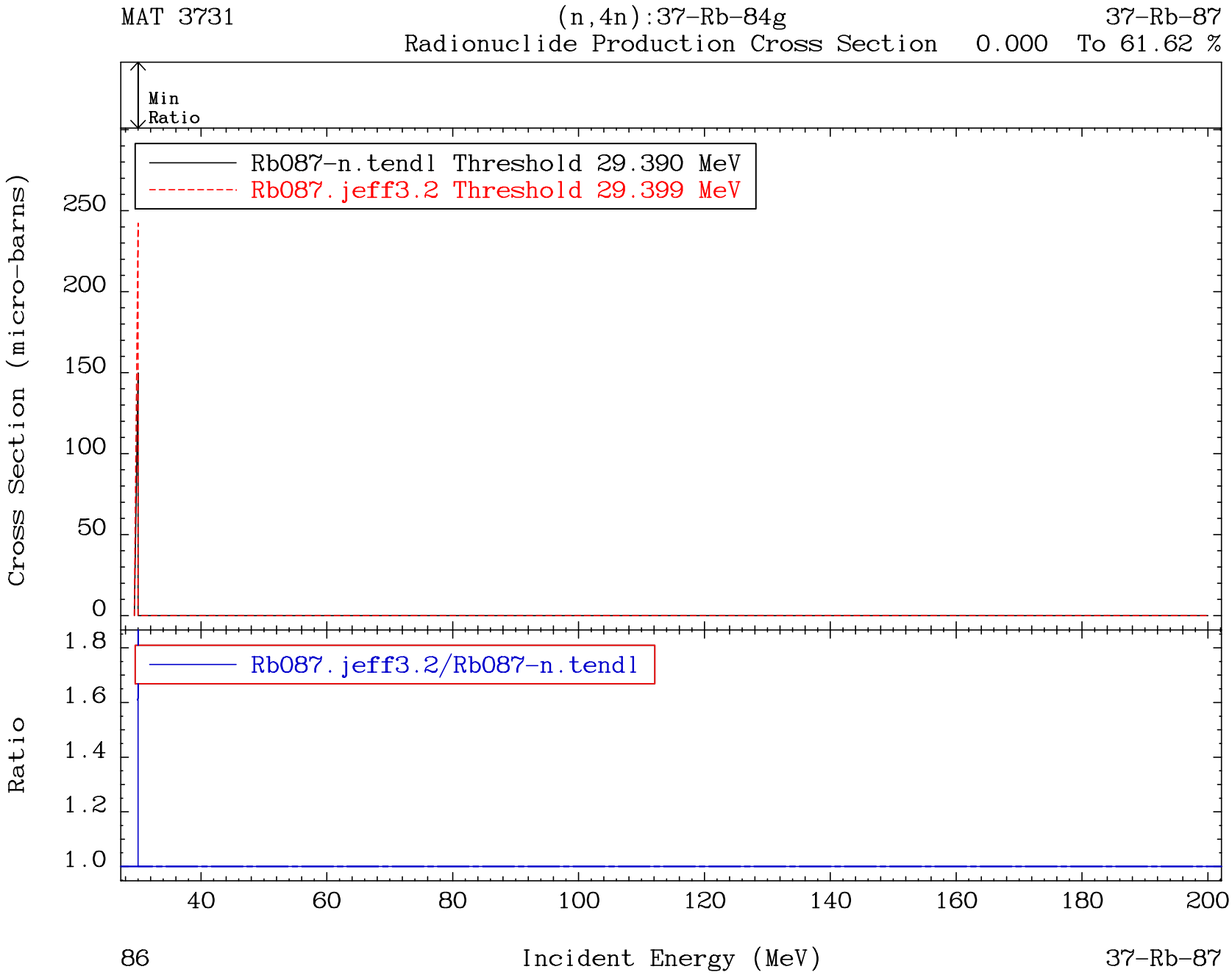

MAT 3731
(n,2n) α:35-Br-82m1
37-Rb-87
Radionuclide Production Cross Section -99.98 To 273.5 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 17.848 MeV
Rb087.jeff3.2 Threshold 17.848 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
37-Rb-87

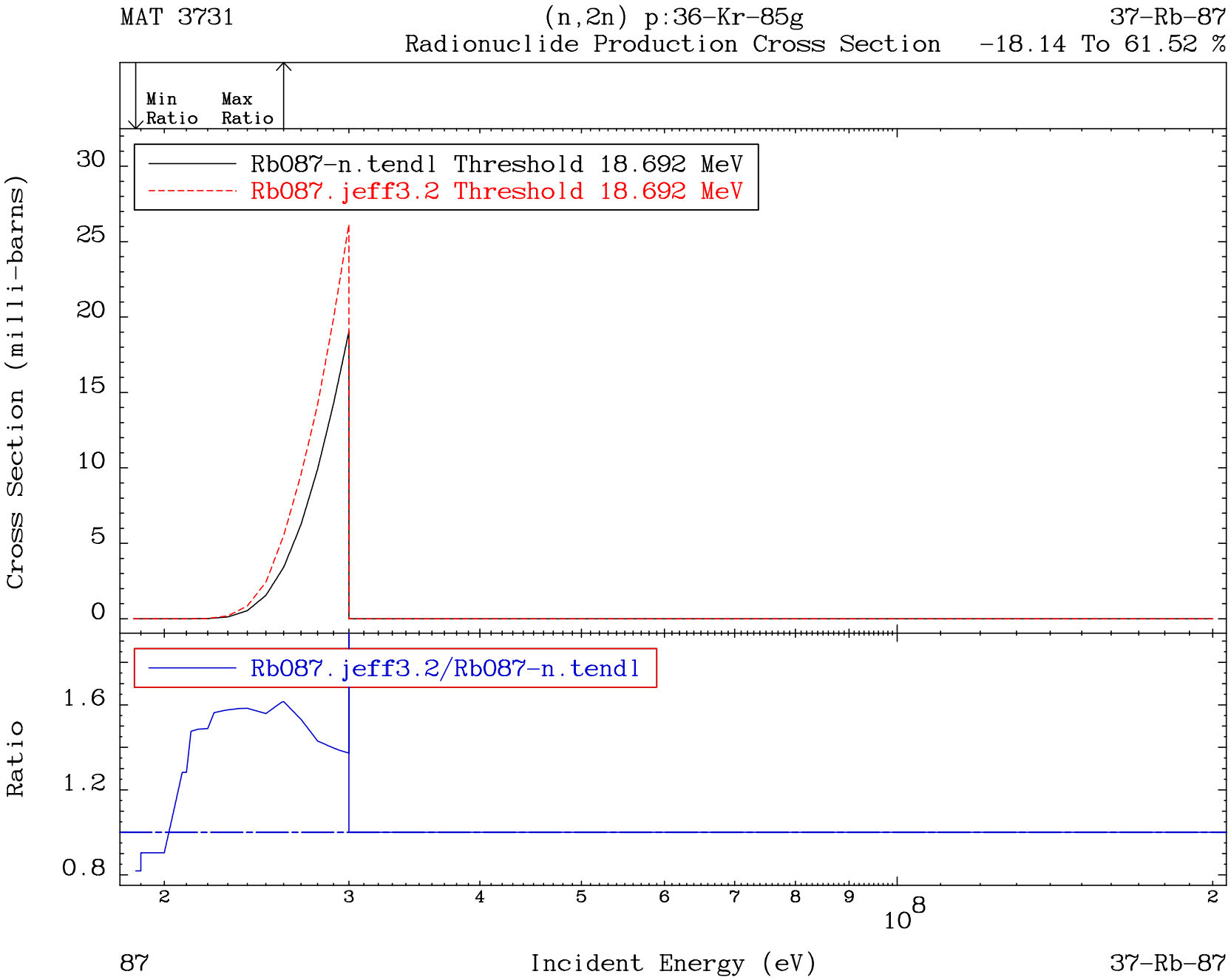

MAT 3731
(n,n') d:36-Kr-85g
37-Rb-87
Radionuclide Production Cross Section -25.49 To 22.10 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 16.442 MeV
Rb087.jeff3.2 Threshold 16.442 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
37-Rb-87

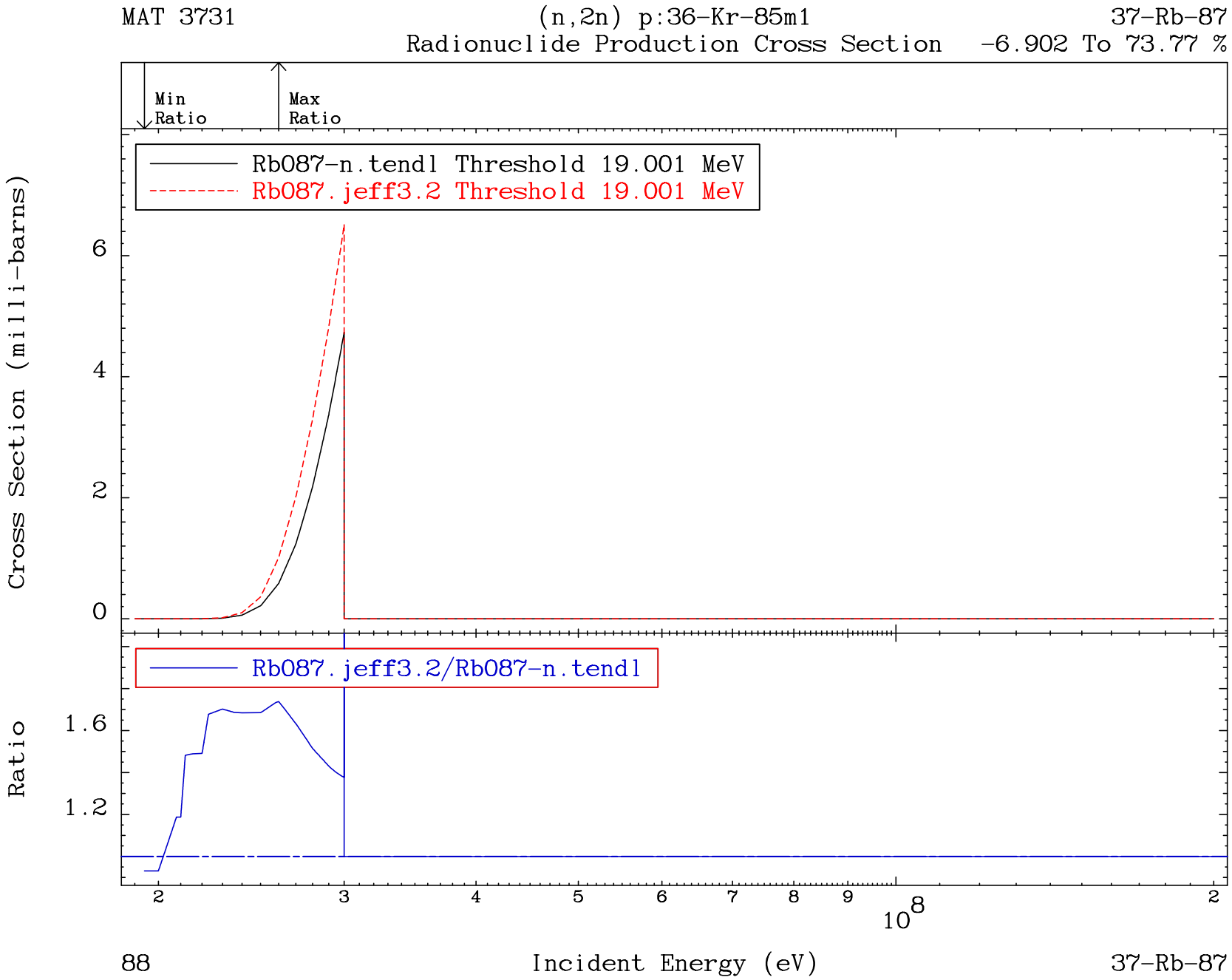

MAT 3731
(n,n') d:36-Kr-85m1
37-Rb-87
Radionuclide Production Cross Section -18.35 To 62.24 %
Max
Ratio
Rb087-n.tendl Threshold 16.750 MeV
Rb087.jeff3.2 Threshold 16.750 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.6
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
37-Rb-87

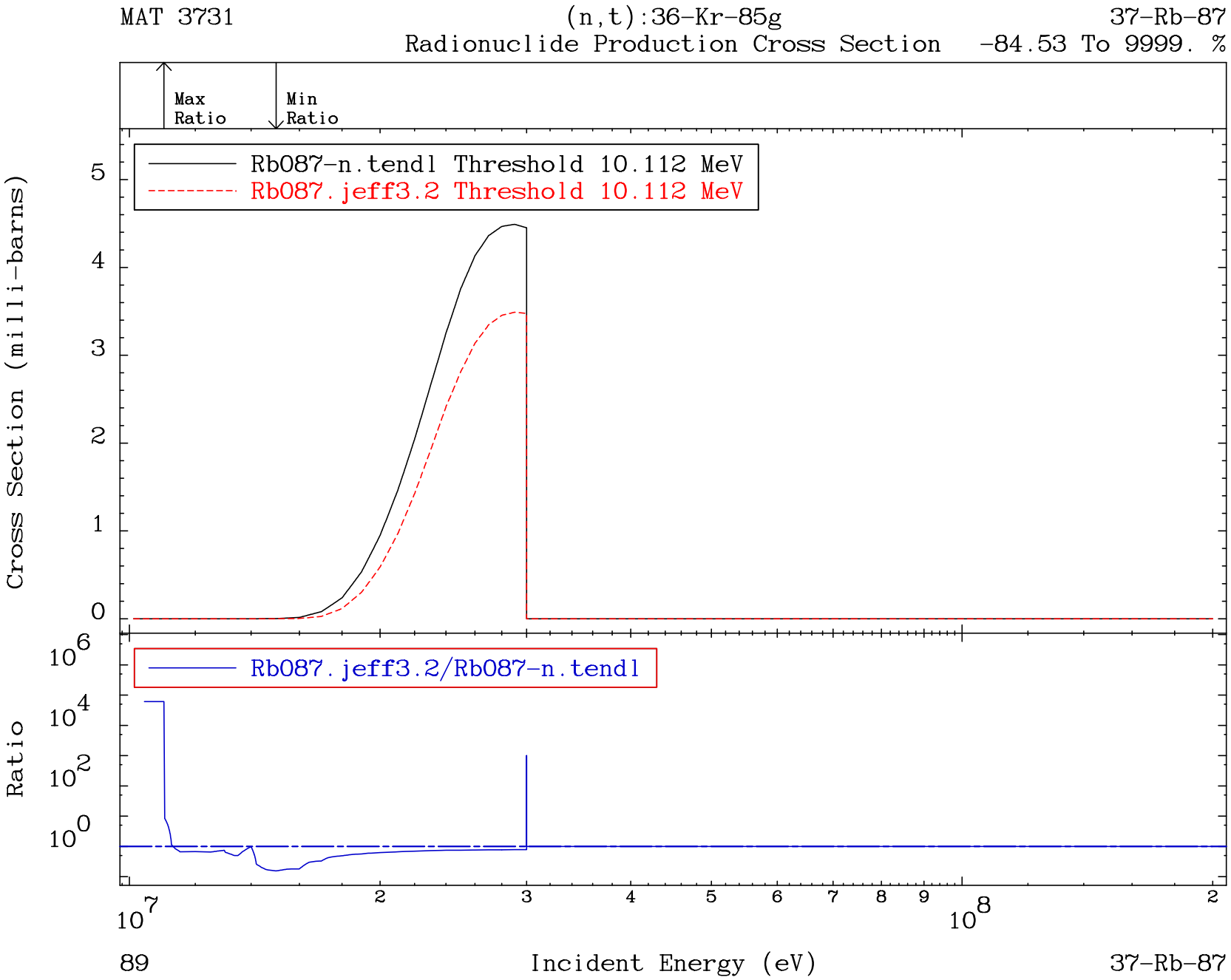

MAT 3731
(n,n') He-3:35-Br-84g
37-Rb-87
Radionuclide Production Cross Section 0.000 To 1139. %
Min
Ratio
Rb087-n.tendl Threshold 21.998 MeV
Rb087.jeff3.2 Threshold 21.982 MeV
Cross Section (10^{-9} barns)
500
400
300
200
100
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^1
2
6
4
2
10^0
20
40
60
80
100
120
140
160
180
200
84
Incident Energy (MeV)
37-Rb-87

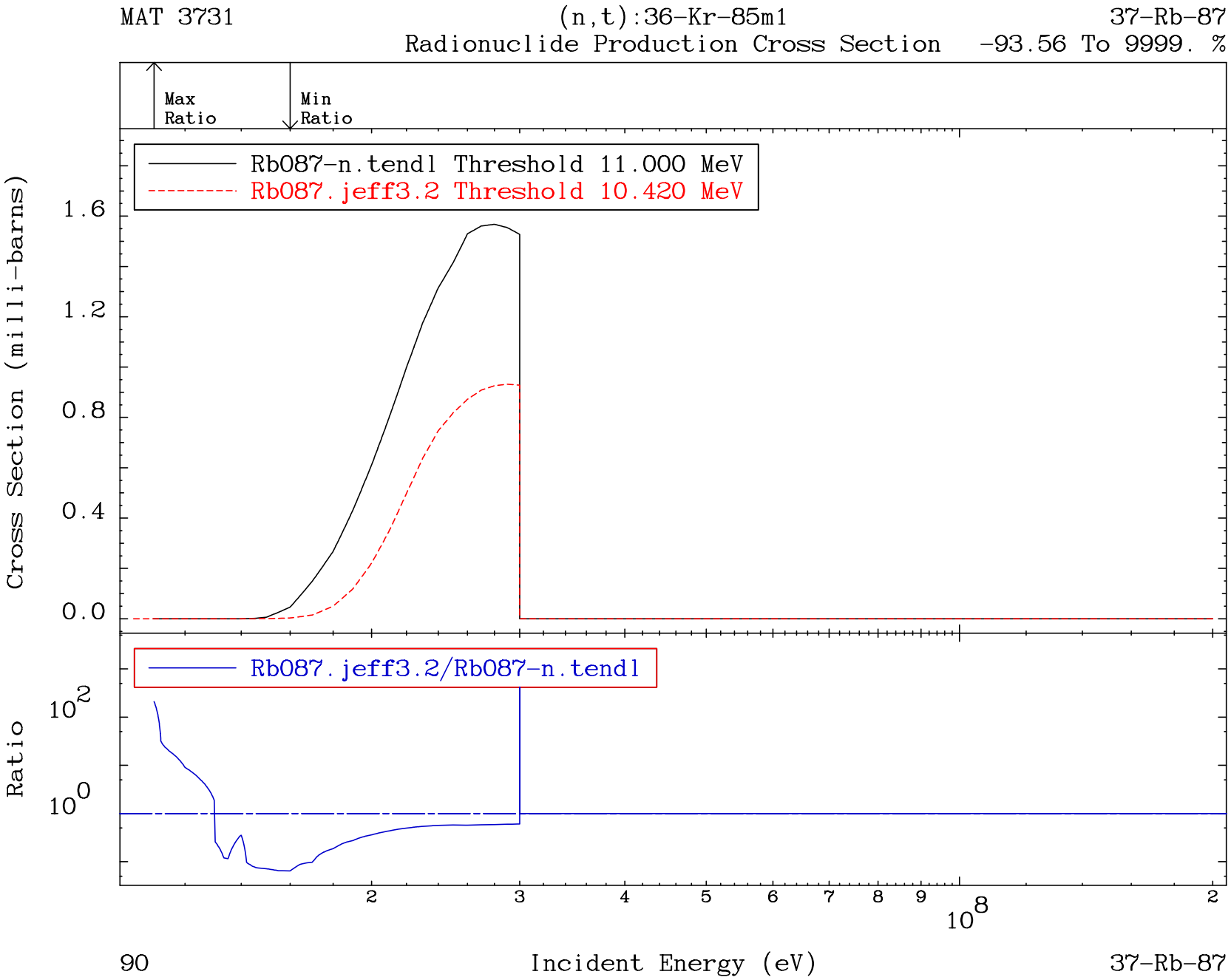

MAT 3731
(n,n') He-3:35-Br-84m1
37-Rb-87
Radionuclide Production Cross Section 0.000 To 37.28 %
Min Ratio
Rb087-n.tendl Threshold 22.322 MeV
Rb087.jeff3.2 Threshold 22.306 MeV
Cross Section (10^{-9} barns)
500
400
300
200
100
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.4
1.2
1.0
40
60
80
100
120
140
160
180
200
85
Incident Energy (MeV)
37-Rb-87

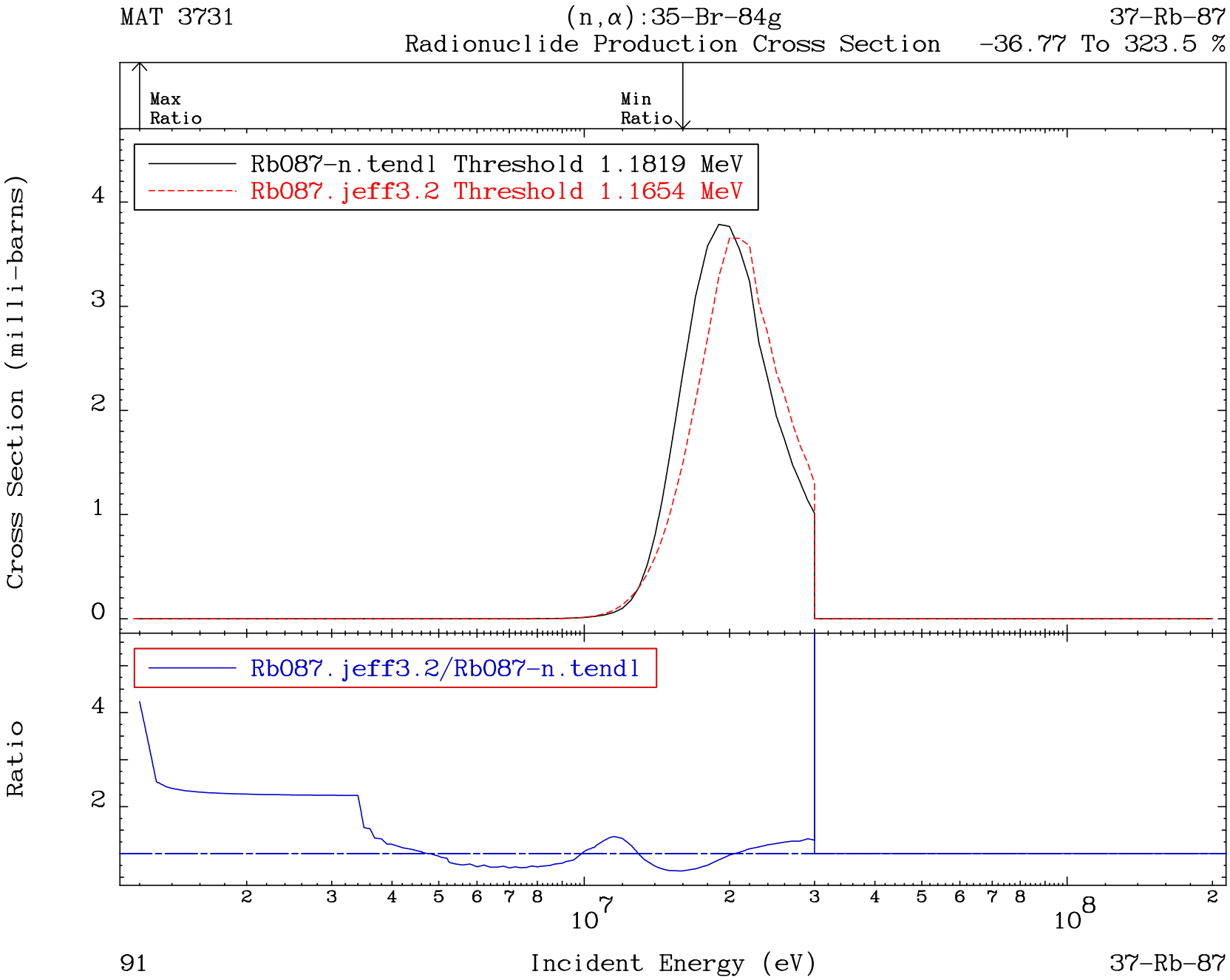

MAT 3731
(n,4n):37-Rb-84g
37-Rb-87
Radionuclide Production Cross Section 0.000 To 61.62 %
Min
Ratio
Rb087-n.tendl Threshold 29.390 MeV
Rb087.jeff3.2 Threshold 29.399 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.8
1.6
1.4
1.2
1.0
40
60
80
100
120
140
160
180
200
86
Incident Energy (MeV)
37-Rb-87

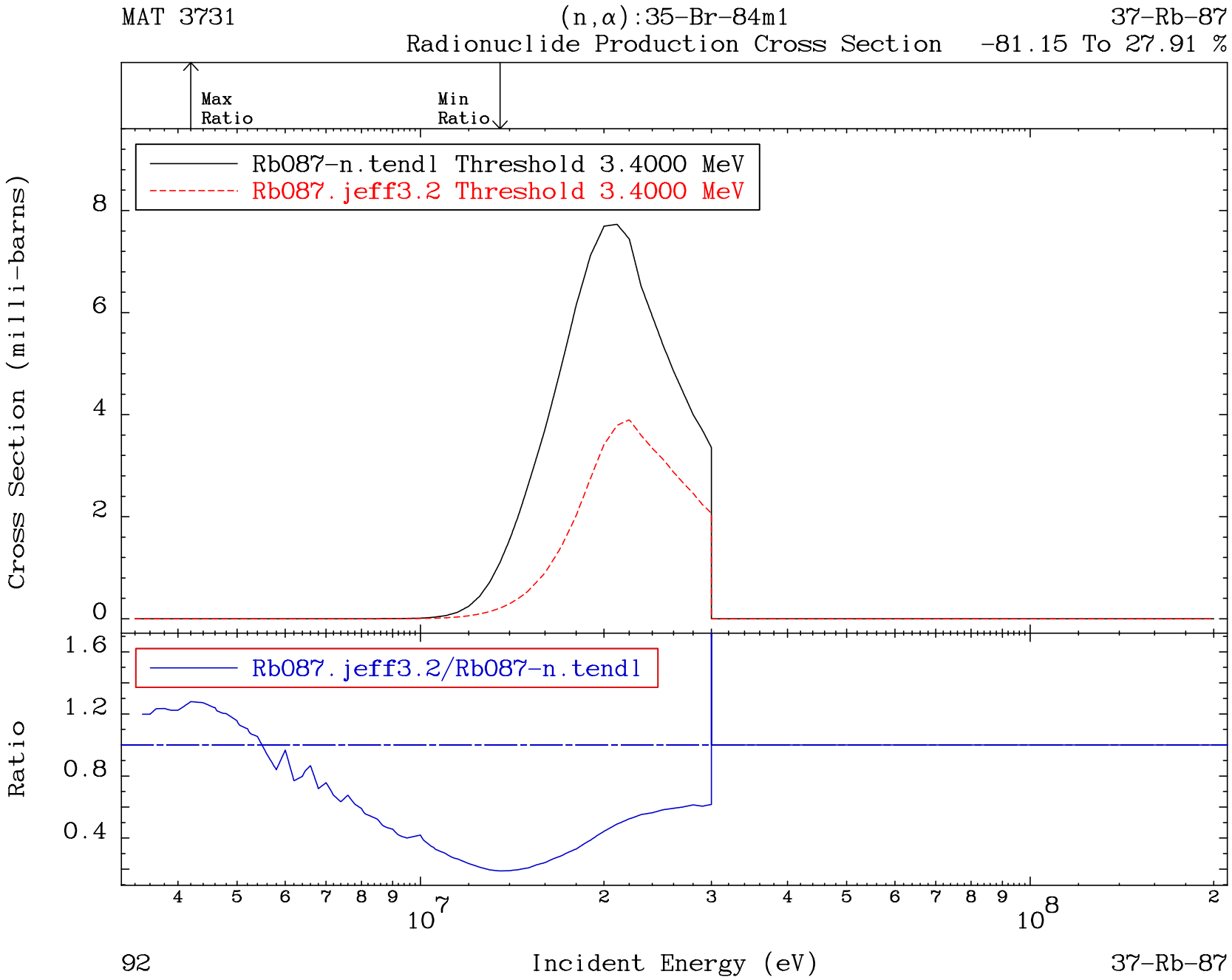

MAT 3731
(n,2n) p:36-Kr-85g
37-Rb-87
Radionuclide Production Cross Section -18.14 To 61.52 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 18.692 MeV
Rb087.jeff3.2 Threshold 18.692 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.6
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
37-Rb-87

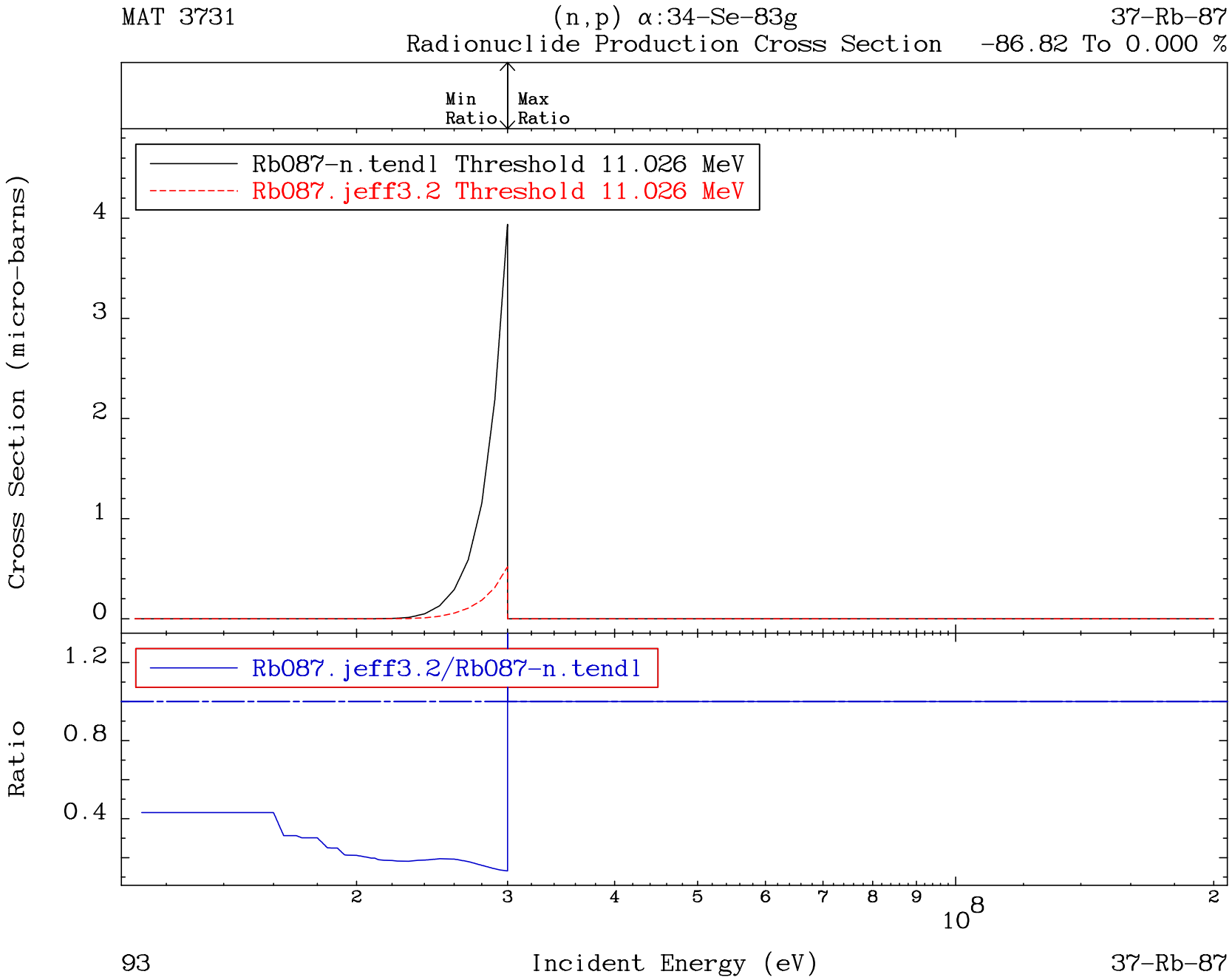

MAT 3731
(n,2n) p:36-Kr-85m1
37-Rb-87
Radionuclide Production Cross Section -6.902 To 73.77 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 19.001 MeV
Rb087.jeff3.2 Threshold 19.001 MeV
Cross Section (milli-barns)
0
2
4
6
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
1.6
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
37-Rb-87

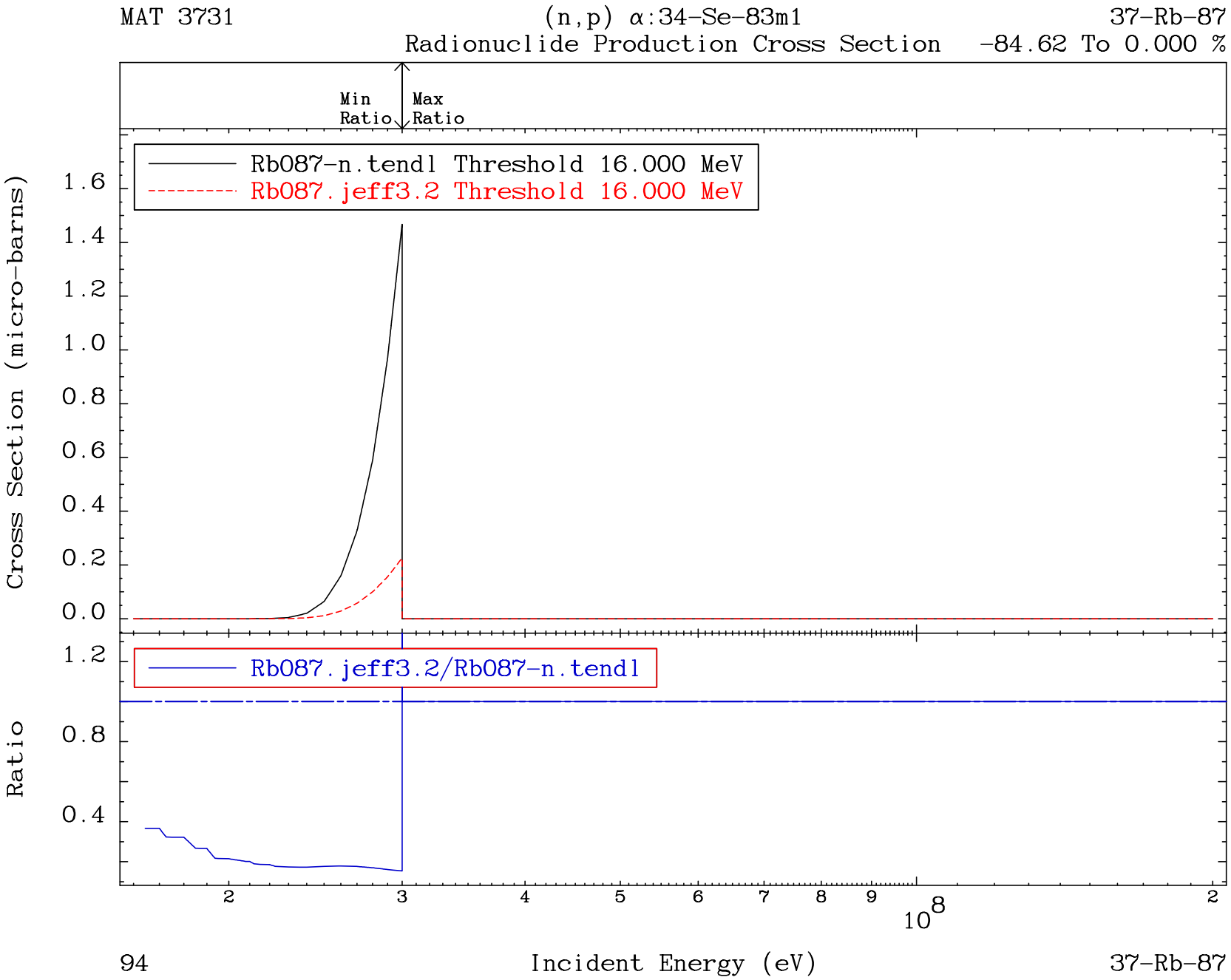

MAT 3731
(n,t):36-Kr-85g
37-Rb-87
Radionuclide Production Cross Section -84.53 To 9999. %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 10.112 MeV
Rb087.jeff3.2 Threshold 10.112 MeV
Cross Section (milli-barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
89
37-Rb-87

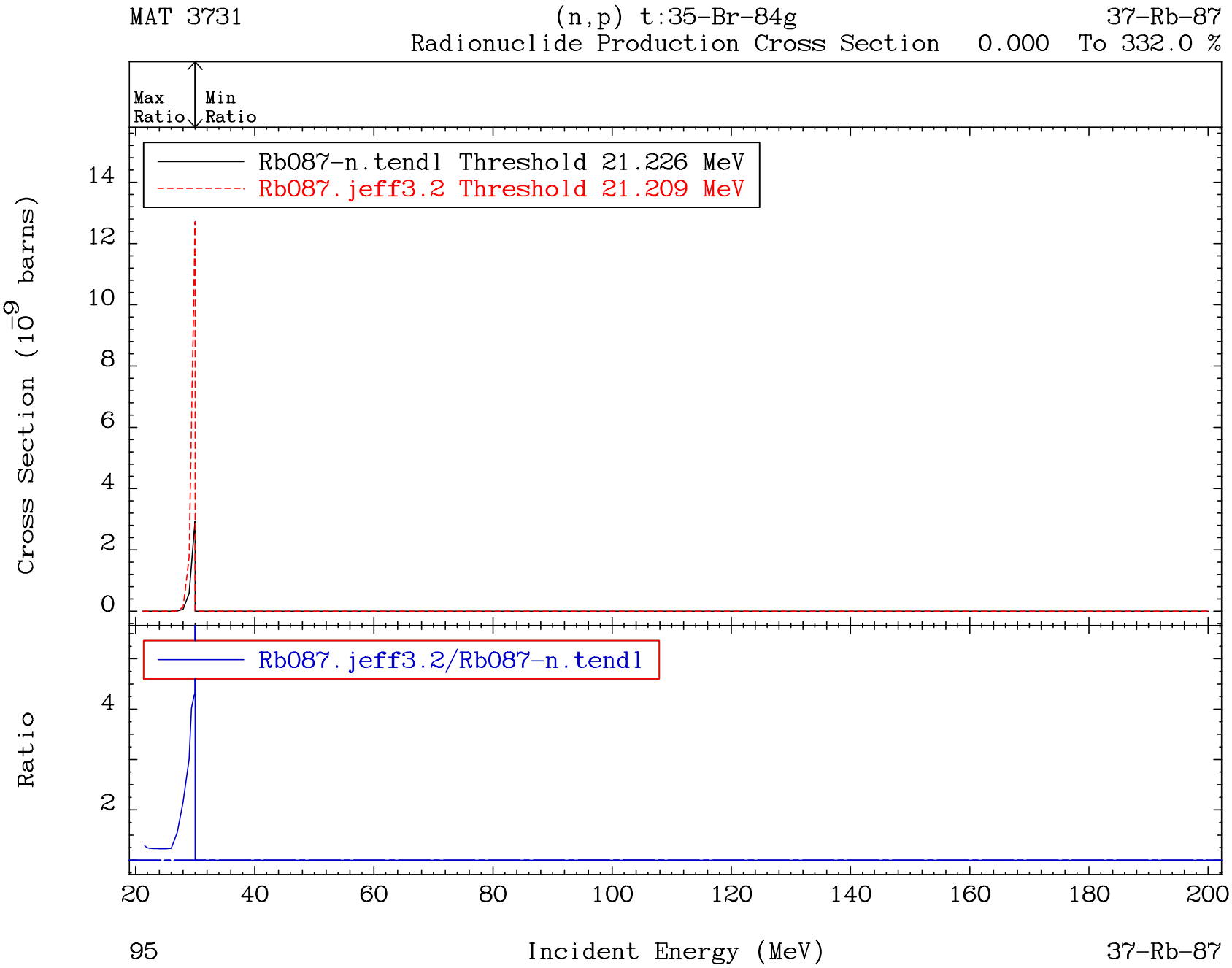

MAT 3731
(n,t):36-Kr-85m1
37-Rb-87
Radionuclide Production Cross Section -93.56 To 9999. %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 11.000 MeV
Rb087.jeff3.2 Threshold 10.420 MeV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
37-Rb-87

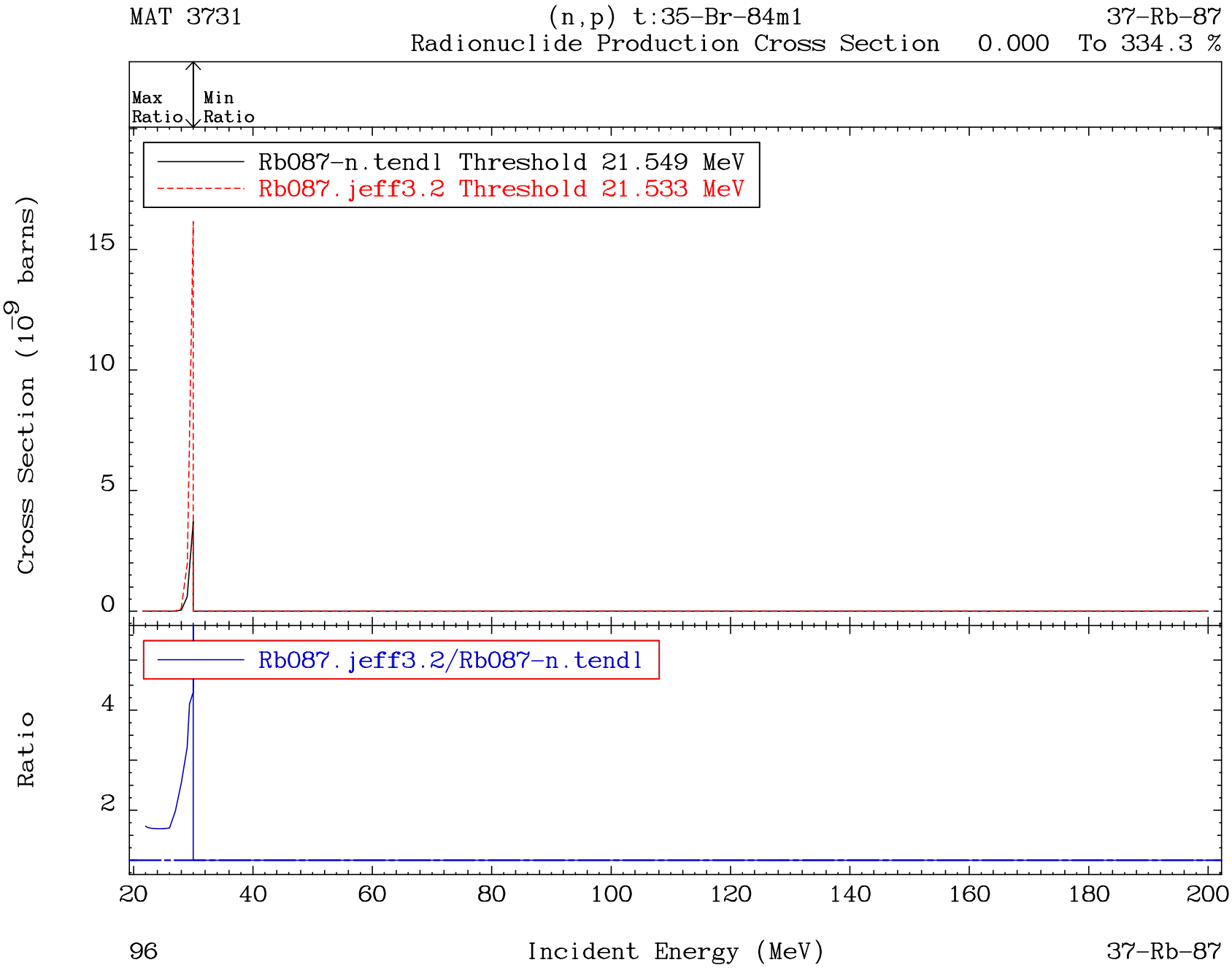

MAT 3731
(n,α):35-Br-84g
37-Rb-87
Radionuclide Production Cross Section -36.77 To 323.5 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 1.1819 MeV
Rb087.jeff3.2 Threshold 1.1654 MeV
Cross Section (milli-barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (eV)
91
37-Rb-87


MAT 3731
(n,α):35-Br-84m1
37-Rb-87
Radionuclide Production Cross Section -81.15 To 27.91 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 3.4000 MeV
Rb087.jeff3.2 Threshold 3.4000 MeV
Cross Section (milli-barns)
0
2
4
6
8
Rb087.jeff3.2/Rb087-n.tendl
Ratio
0.4
0.8
1.2
1.6
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
92
Incident Energy (eV)
37-Rb-87


MAT 3731
(n,p) α:34-Se-83g
37-Rb-87
Radionuclide Production Cross Section
-86.82 To 0.000 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 11.026 MeV
Rb087.jeff3.2 Threshold 11.026 MeV
Cross Section (micro-barns)
0
1
2
3
4
Rb087.jeff3.2/Rb087-n.tendl
Ratio
0.4
0.8
1.2
2
3
4
5
6
7
8
9
10^8
2
93
Incident Energy (eV)
37-Rb-87


MAT 3731
(n,p) α:34-Se-83m1
37-Rb-87
Radionuclide Production Cross Section -84.62 To 0.000 %
Min Ratio
Max Ratio
Rb087-n.tendl Threshold 16.000 MeV
Rb087.jeff3.2 Threshold 16.000 MeV
Cross Section (micro-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
94
Incident Energy (eV)
37-Rb-87


MAT 3731
(n,p) t:35-Br-84g
37-Rb-87
Radionuclide Production Cross Section 0.000 To 332.0 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 21.226 MeV
Rb087.jeff3.2 Threshold 21.209 MeV
Cross Section (10^{-9} barns)
Rb087.jeff3.2/Rb087-n.tendl
Ratio
Incident Energy (MeV)
95
37-Rb-87


MAT 3731
(n,p) t:35-Br-84m1
37-Rb-87
Radionuclide Production Cross Section 0.000 To 334.3 %
Max Ratio
Min Ratio
Rb087-n.tendl Threshold 21.549 MeV
Rb087.jeff3.2 Threshold 21.533 MeV
Cross Section (10^{-9} barns)
15
10
5
0
Rb087.jeff3.2/Rb087-n.tendl
Ratio
4
2
20
40
60
80
100
120
140
160
180
200
96
Incident Energy (MeV)
37-Rb-87