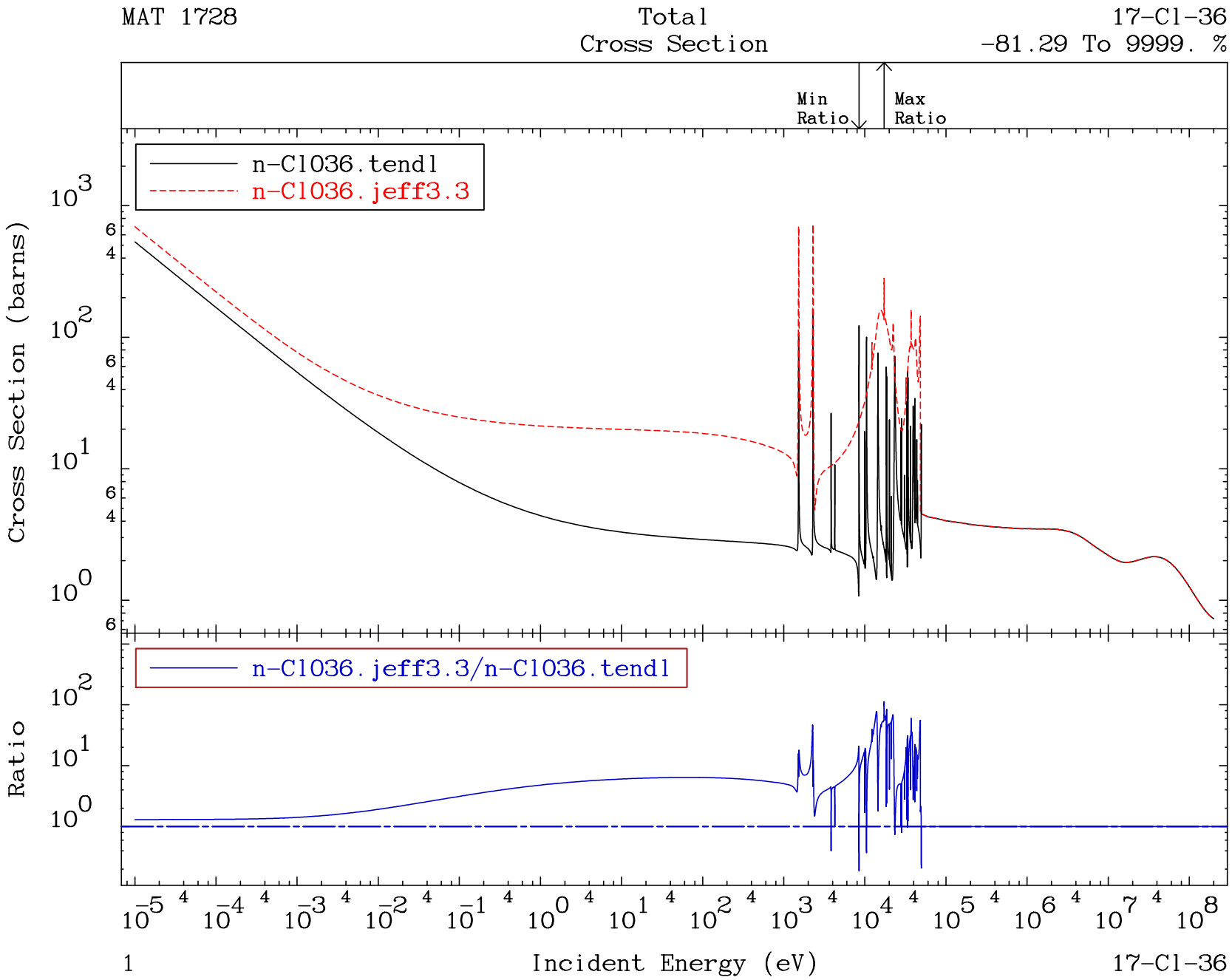
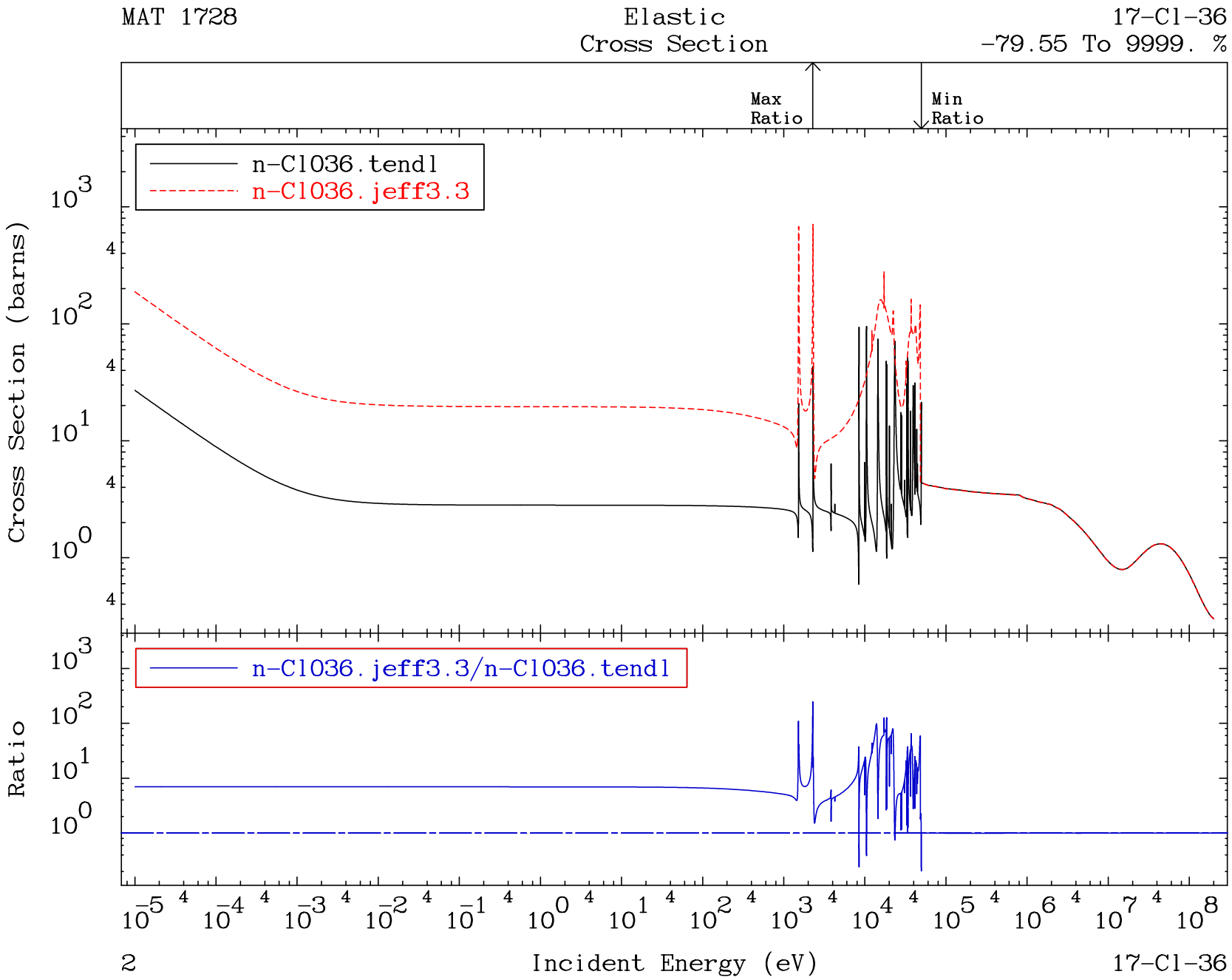
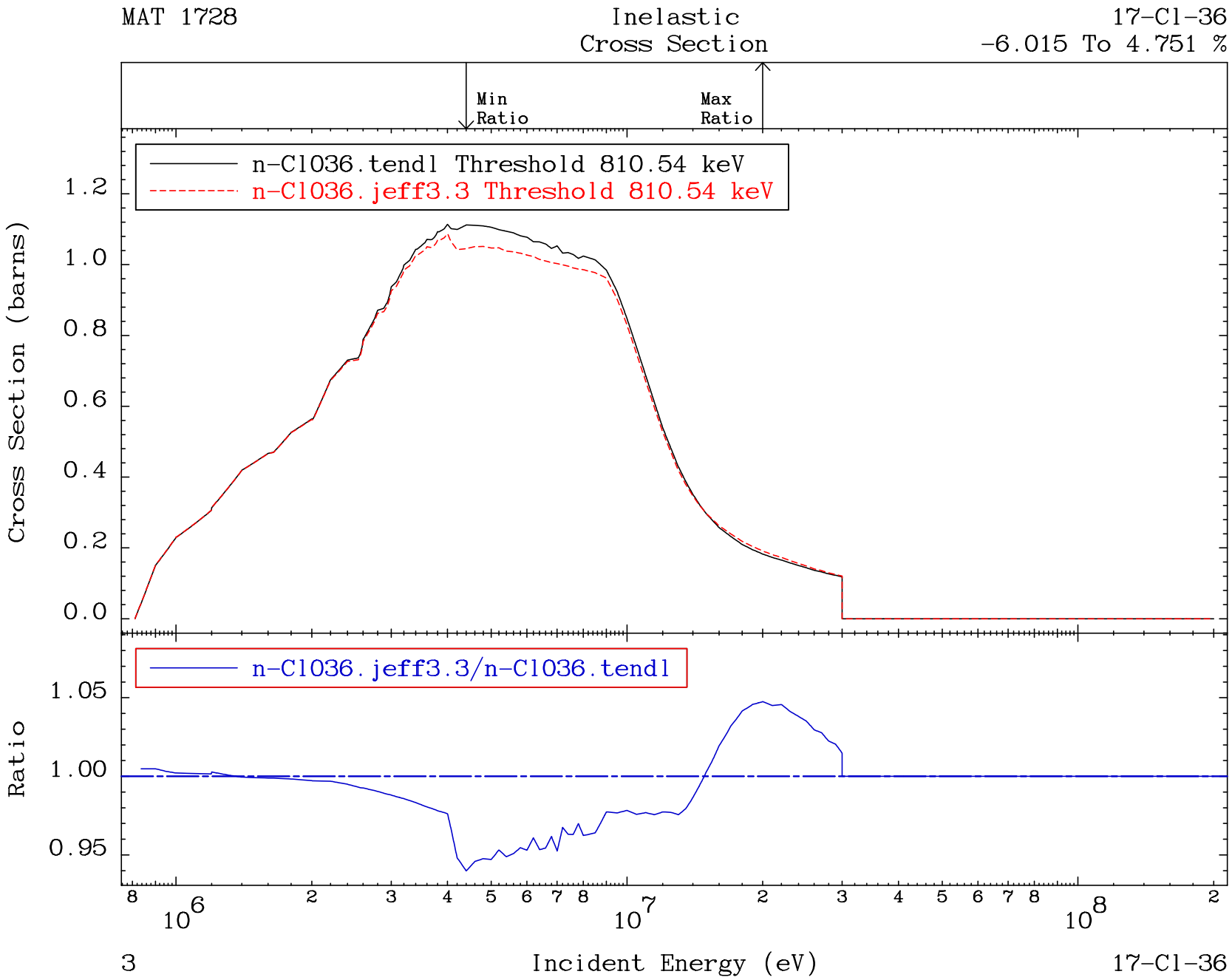
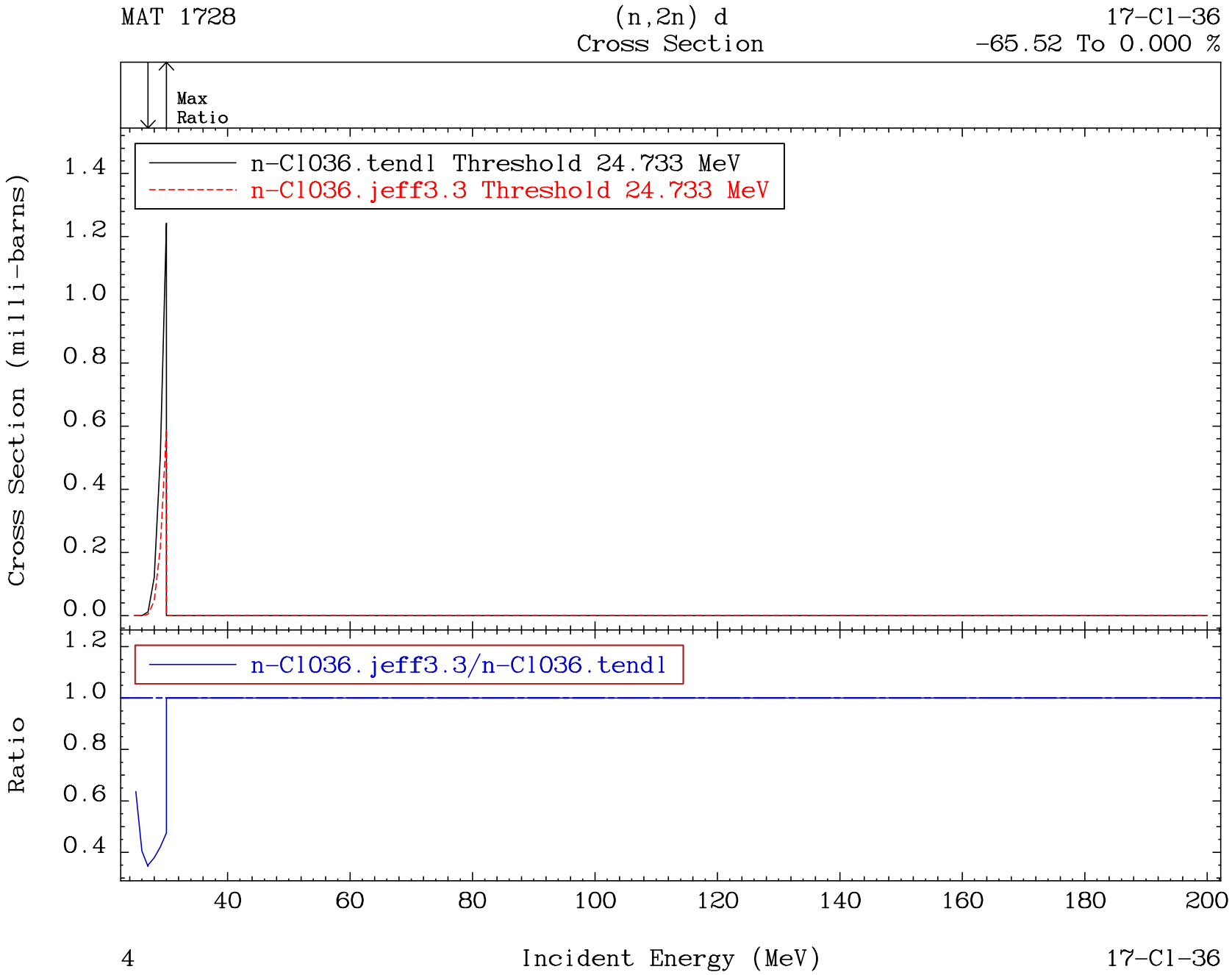
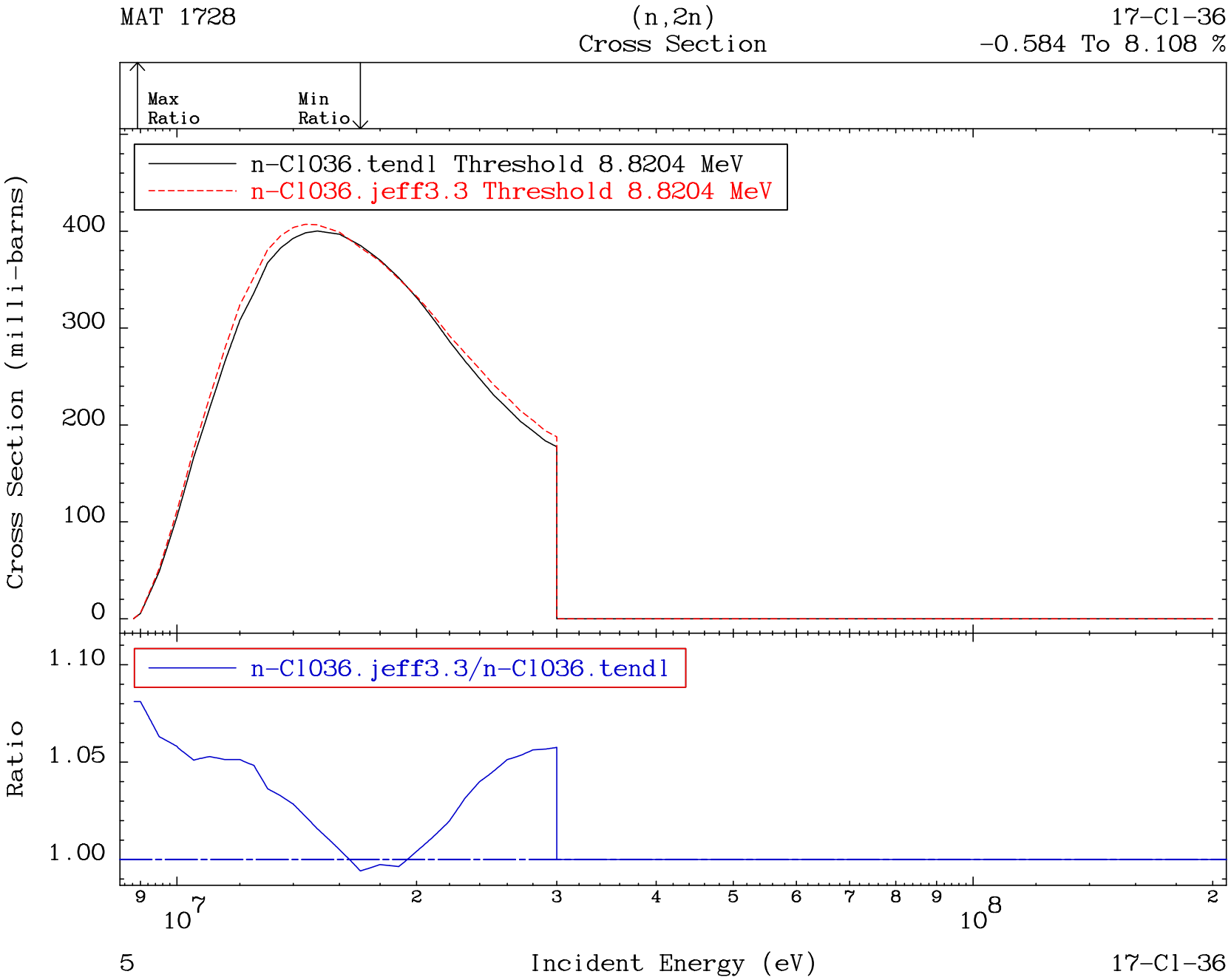
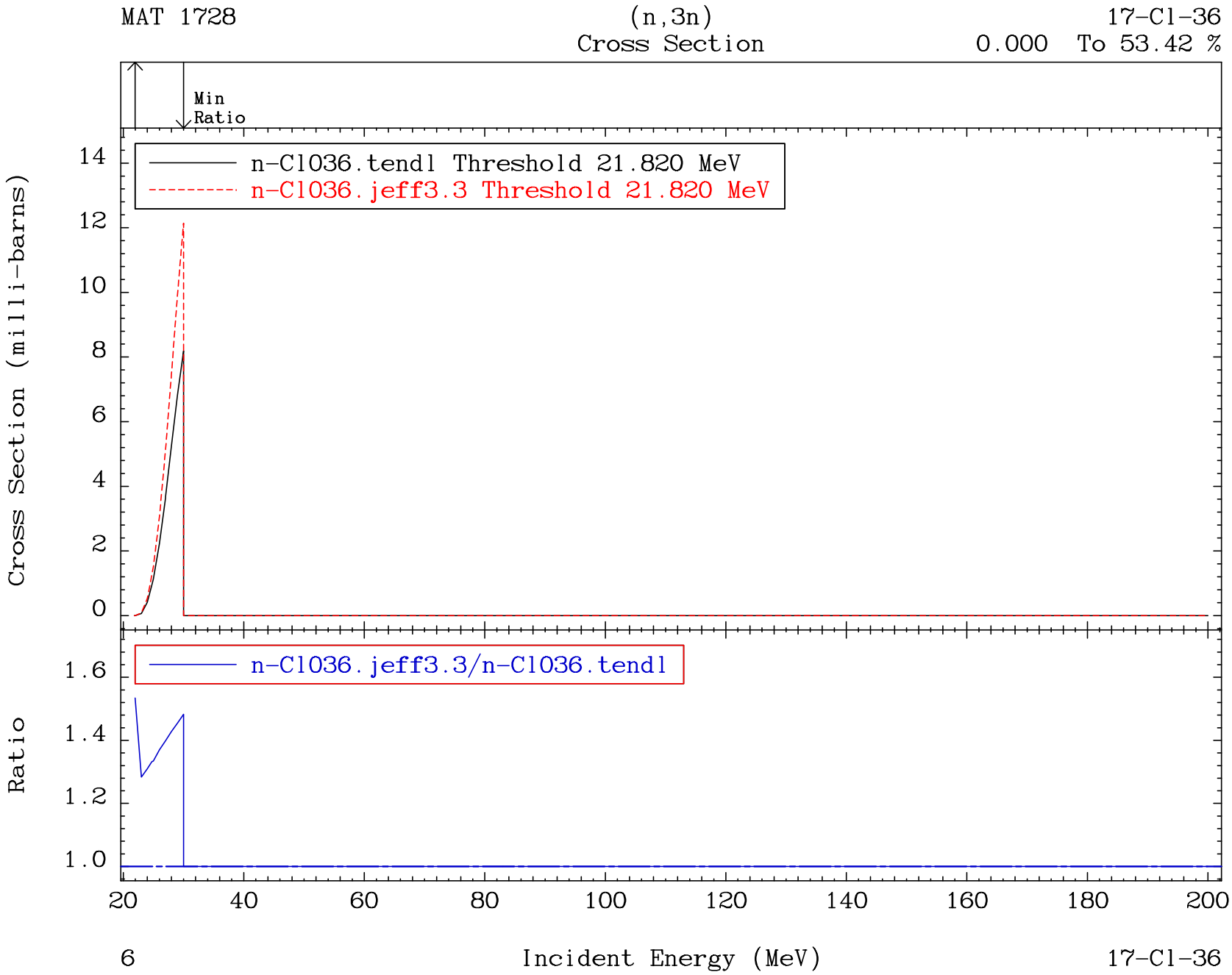

MAT 1728
Total
Cross Section
17-Cl-36
-81.29 To 9999. %
Min Ratio
Max Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
1
17-Cl-36

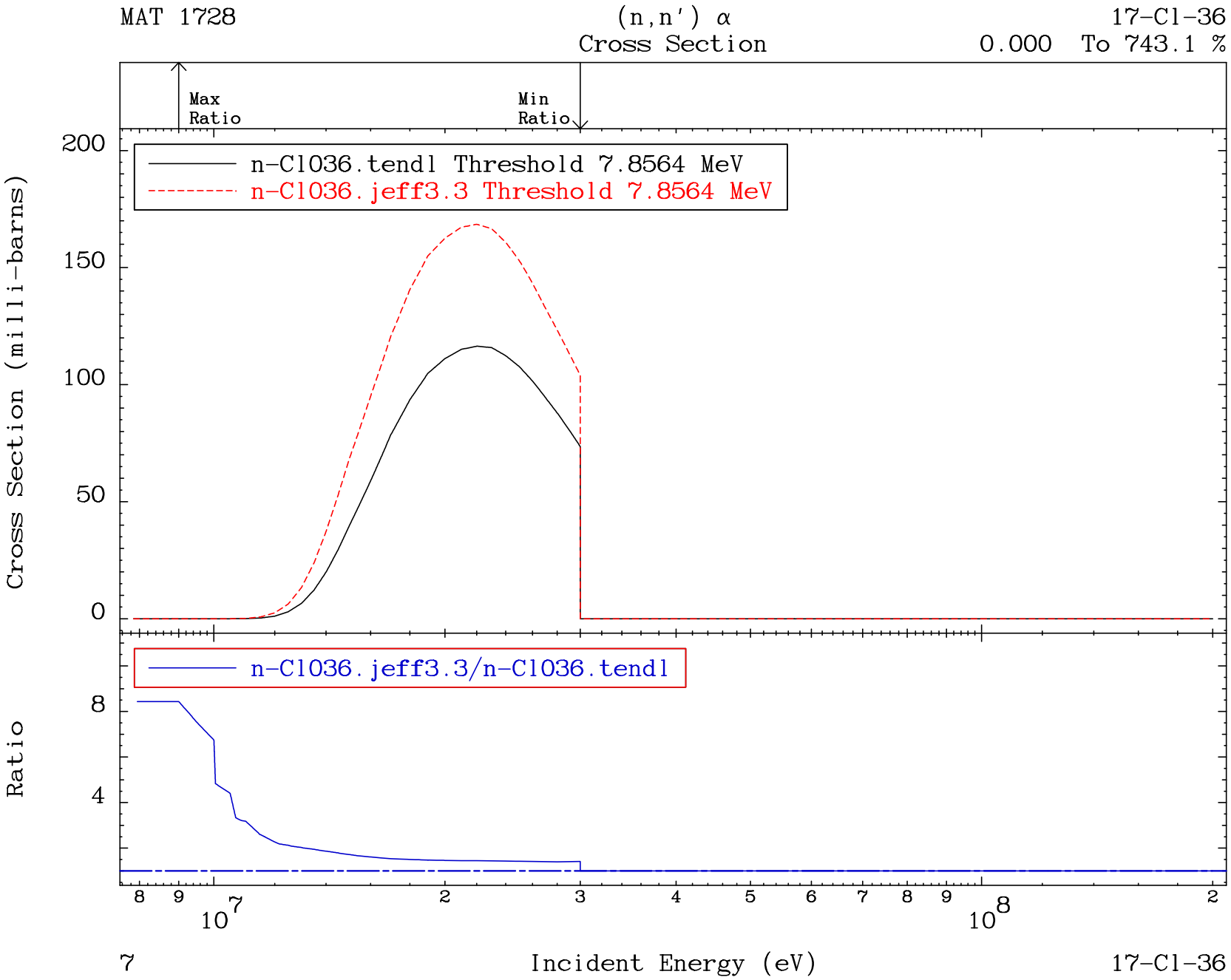

MAT 1728
Elastic
Cross Section
17-Cl-36
-79.55 To 9999. %
Max
Ratio
Min
Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
2
17-Cl-36

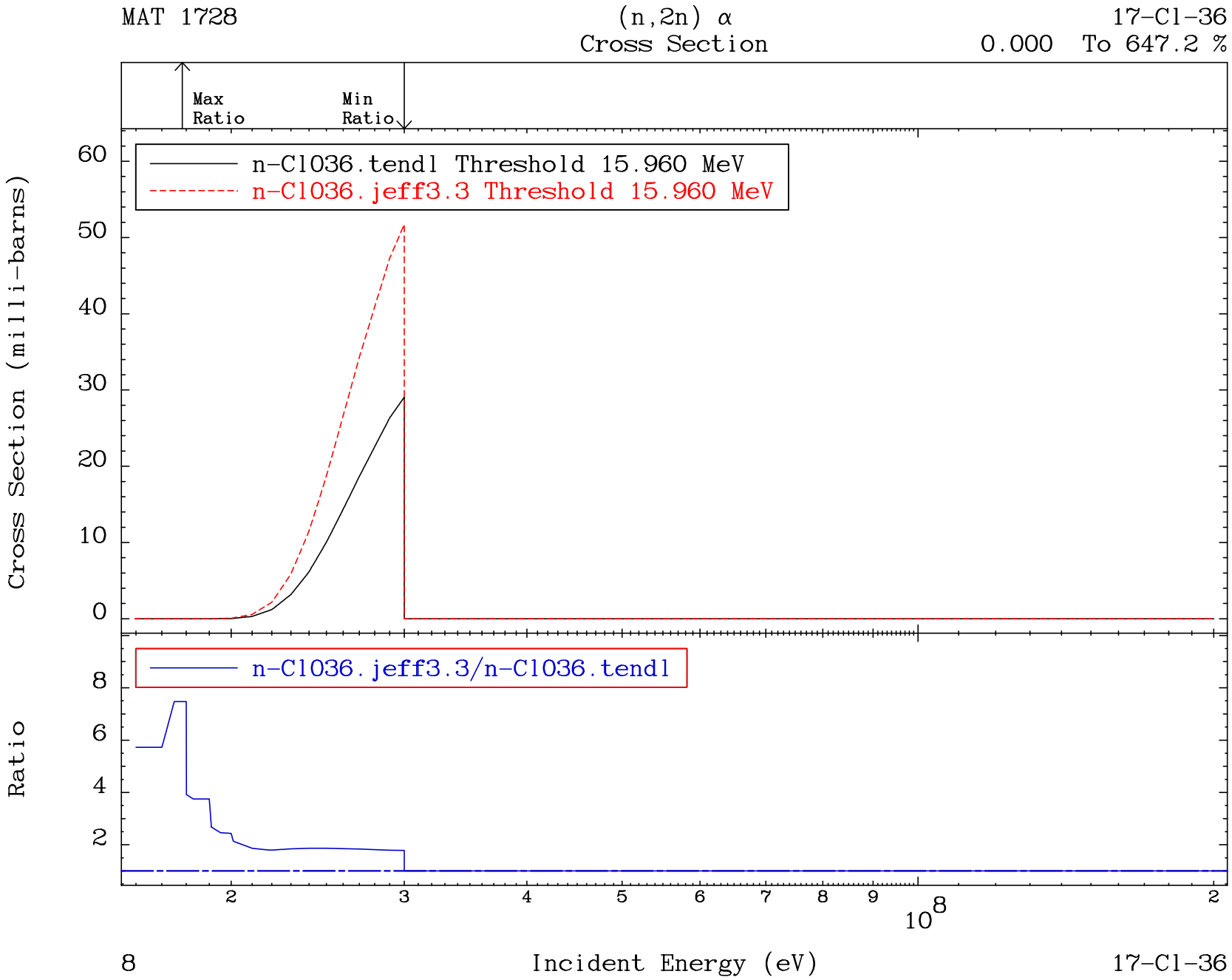

MAT 1728
Inelastic
Cross Section
17-Cl-36
-6.015 To 4.751 %
Min
Ratio
Max
Ratio
n-Cl036.tendl Threshold 810.54 keV
n-Cl036.jeff3.3 Threshold 810.54 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.05
1.00
0.95
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
17-Cl-36

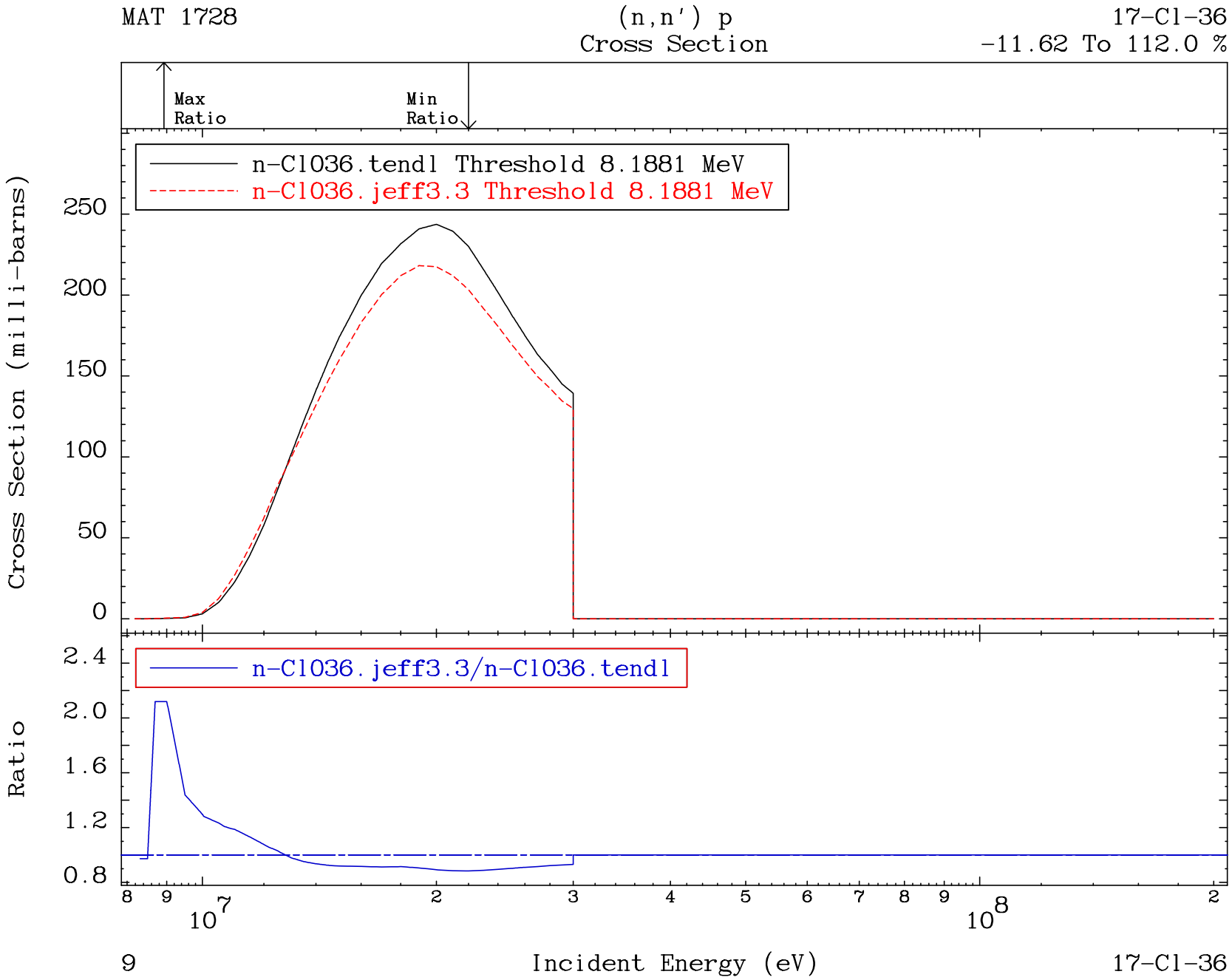

MAT 1728
(n,2n) d
Cross Section
17-Cl-36
-65.52 To 0.000 %
Max
Ratio
n-Cl036.tendl Threshold 24.733 MeV
n-Cl036.jeff3.3 Threshold 24.733 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
1.0
0.8
0.6
0.4
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
17-Cl-36

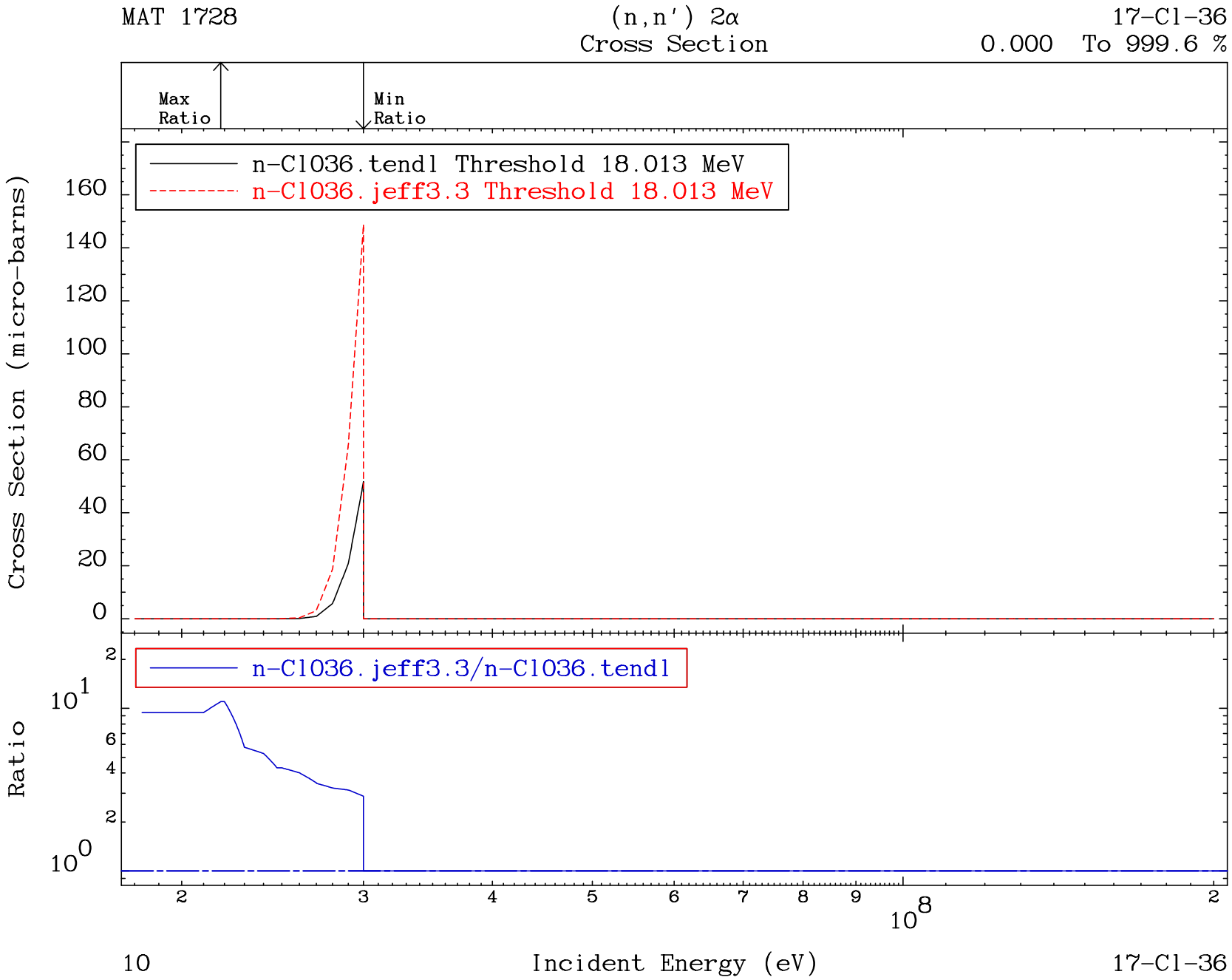

MAT 1728
(n,2n)
Cross Section
17-Cl-36
-0.584 To 8.108 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 8.8204 MeV
n-Cl036.jeff3.3 Threshold 8.8204 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.10
1.05
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
17-Cl-36

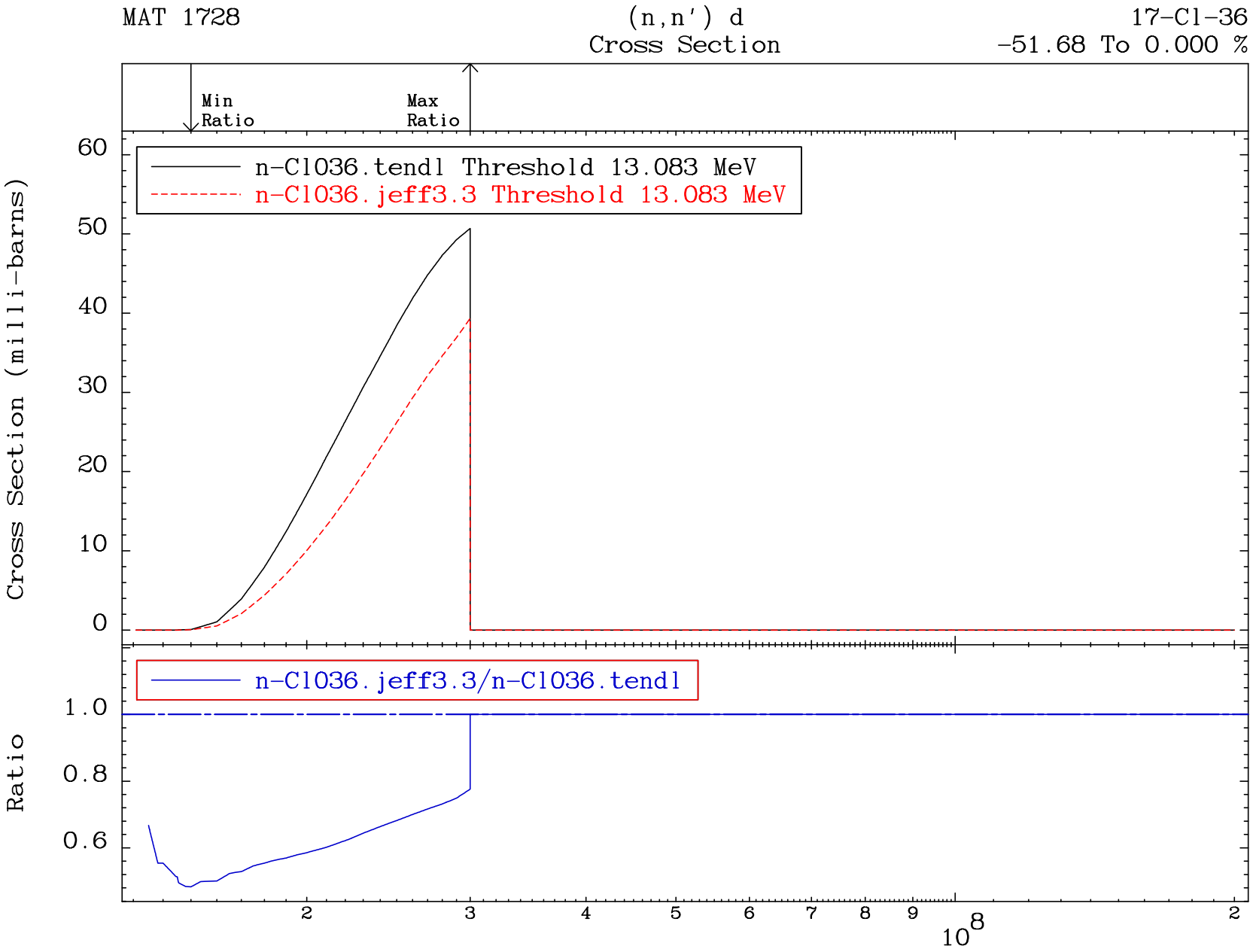

MAT 1728
(n,3n)
Cross Section
17-Cl-36
0.000 To 53.42 %
Min
Ratio
n-Cl036.tendl Threshold 21.820 MeV
n-Cl036.jeff3.3 Threshold 21.820 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.0
1.2
1.4
1.6
20
40
60
80
100
120
140
160
180
200
6
Incident Energy (MeV)
17-Cl-36

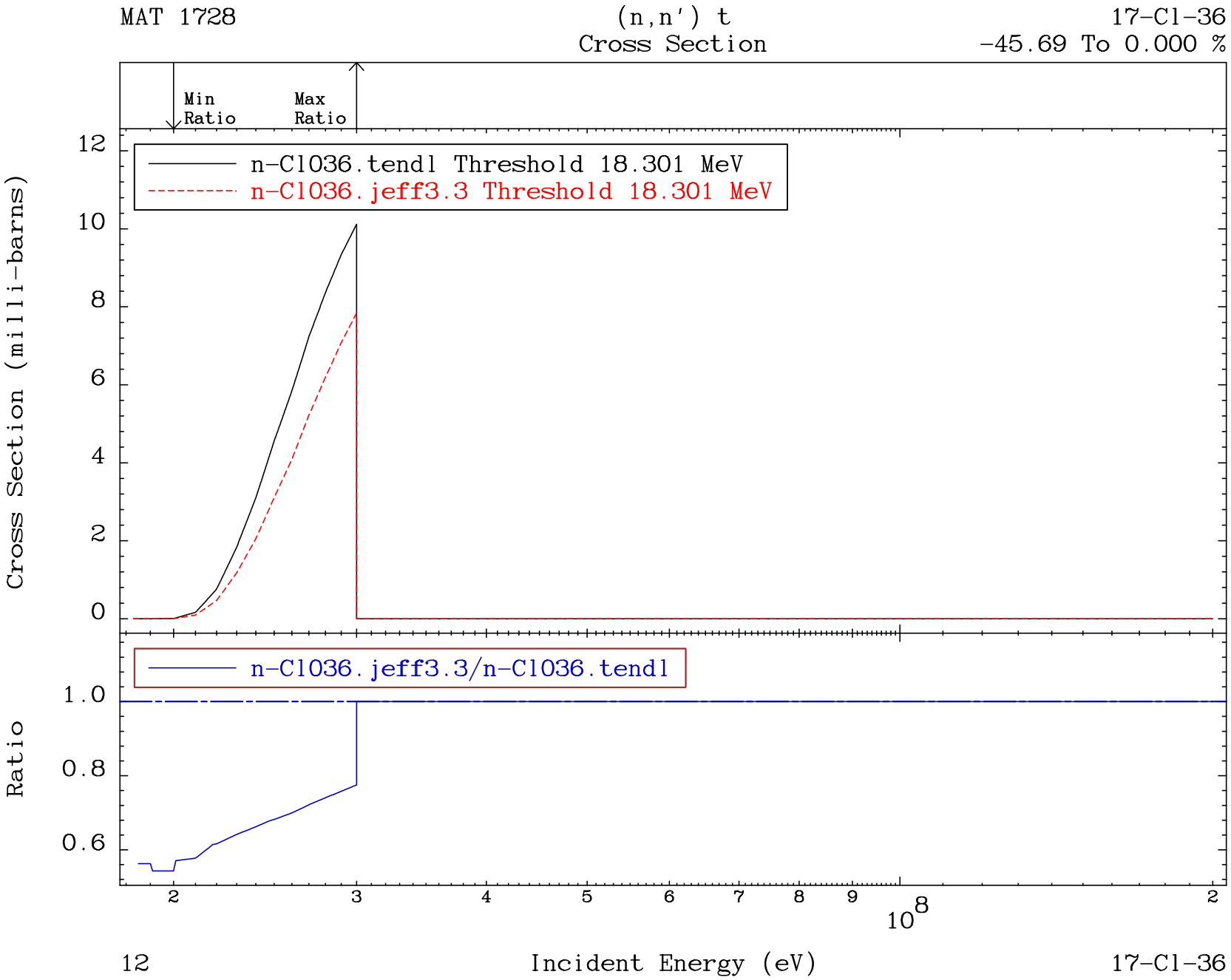

MAT 1728
(n,n') α
Cross Section
17-Cl-36
0.000 To 743.1 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 7.8564 MeV
n-Cl036.jeff3.3 Threshold 7.8564 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
8
4
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
17-Cl-36

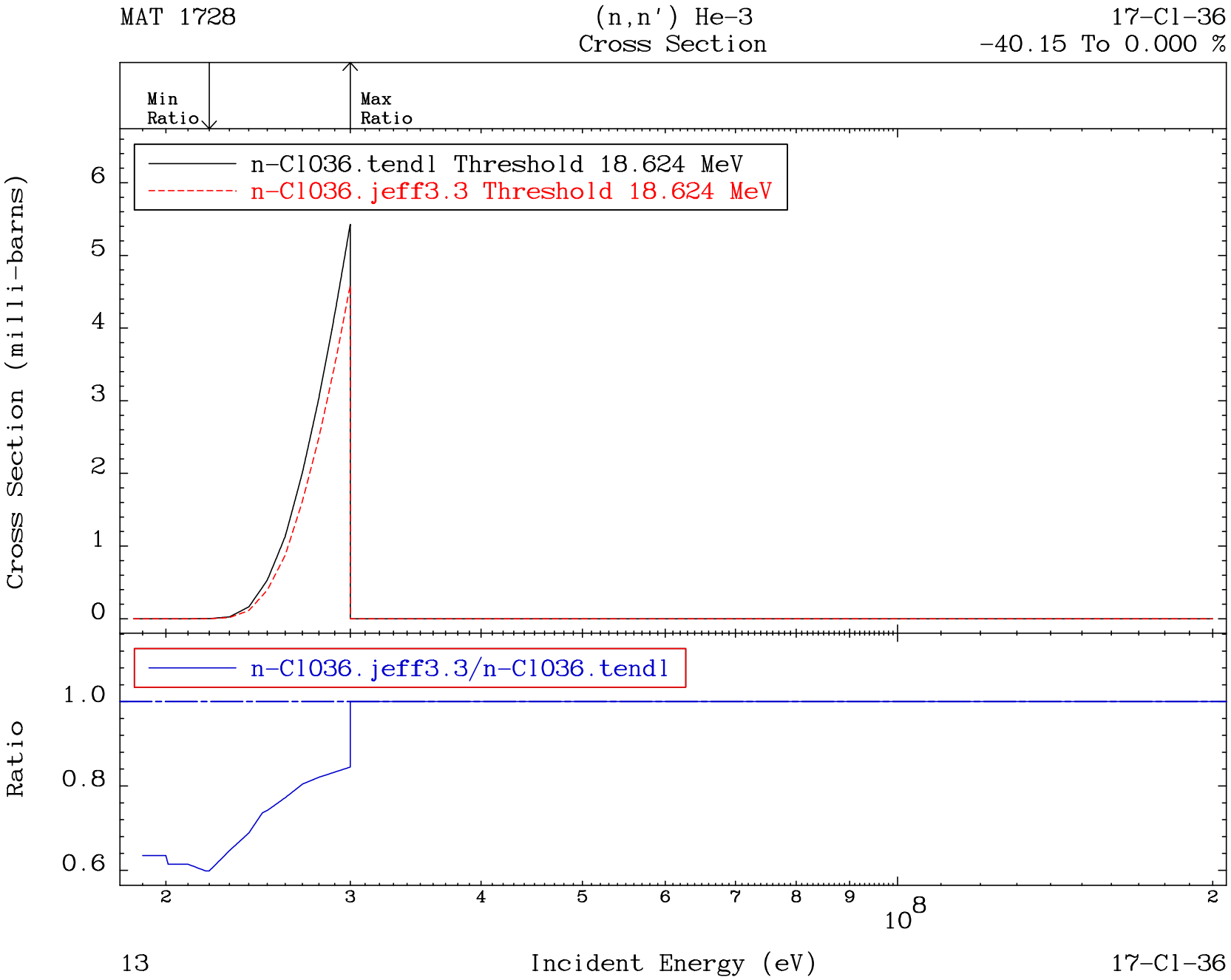

MAT 1728
(n,2n) α
Cross Section
17-Cl-36
0.000 To 647.2 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 15.960 MeV
n-Cl036.jeff3.3 Threshold 15.960 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
8
6
4
2
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
17-Cl-36

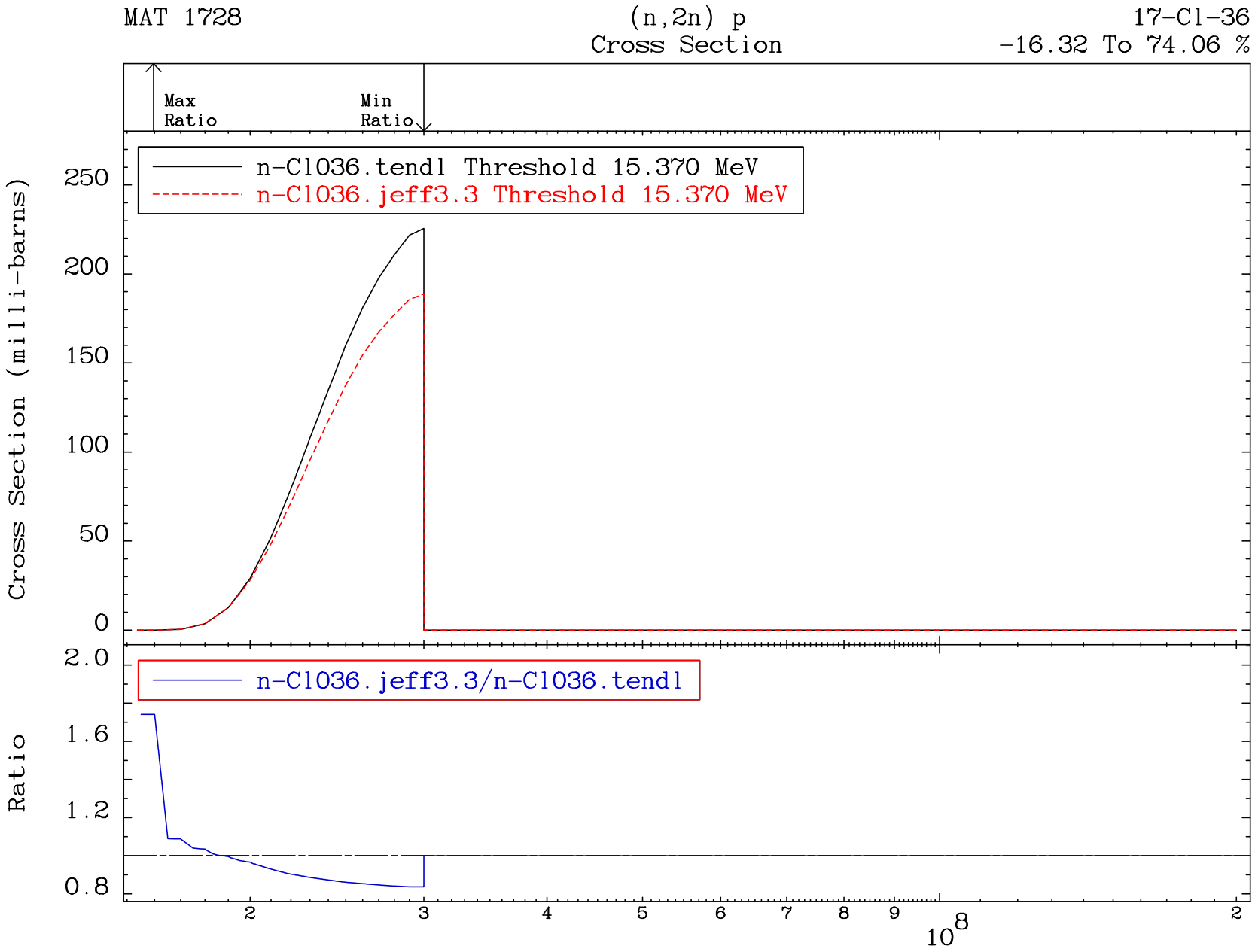

MAT 1728
(n,n') p
Cross Section
17-Cl-36
-11.62 To 112.0 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 8.1881 MeV
n-Cl036.jeff3.3 Threshold 8.1881 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
2.4
2.0
1.6
1.2
0.8
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
17-Cl-36

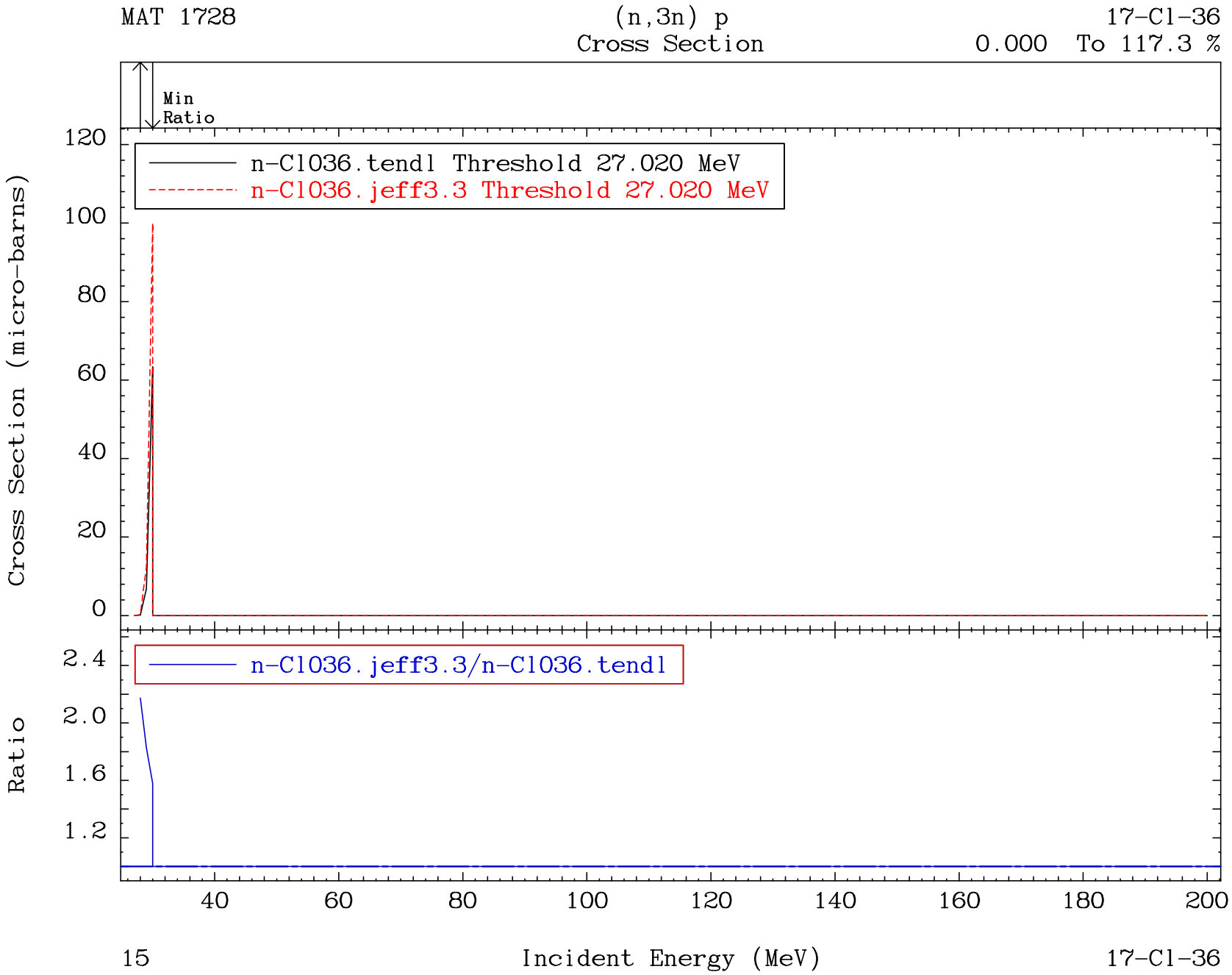

MAT 1728
(n,n') 2α
Cross Section
17-Cl-36
0.000 To 999.6 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 18.013 MeV
n-Cl036.jeff3.3 Threshold 18.013 MeV
Cross Section (micro-barns)
160
140
120
100
80
60
40
20
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
10^1
6
4
2
10^0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
17-Cl-36

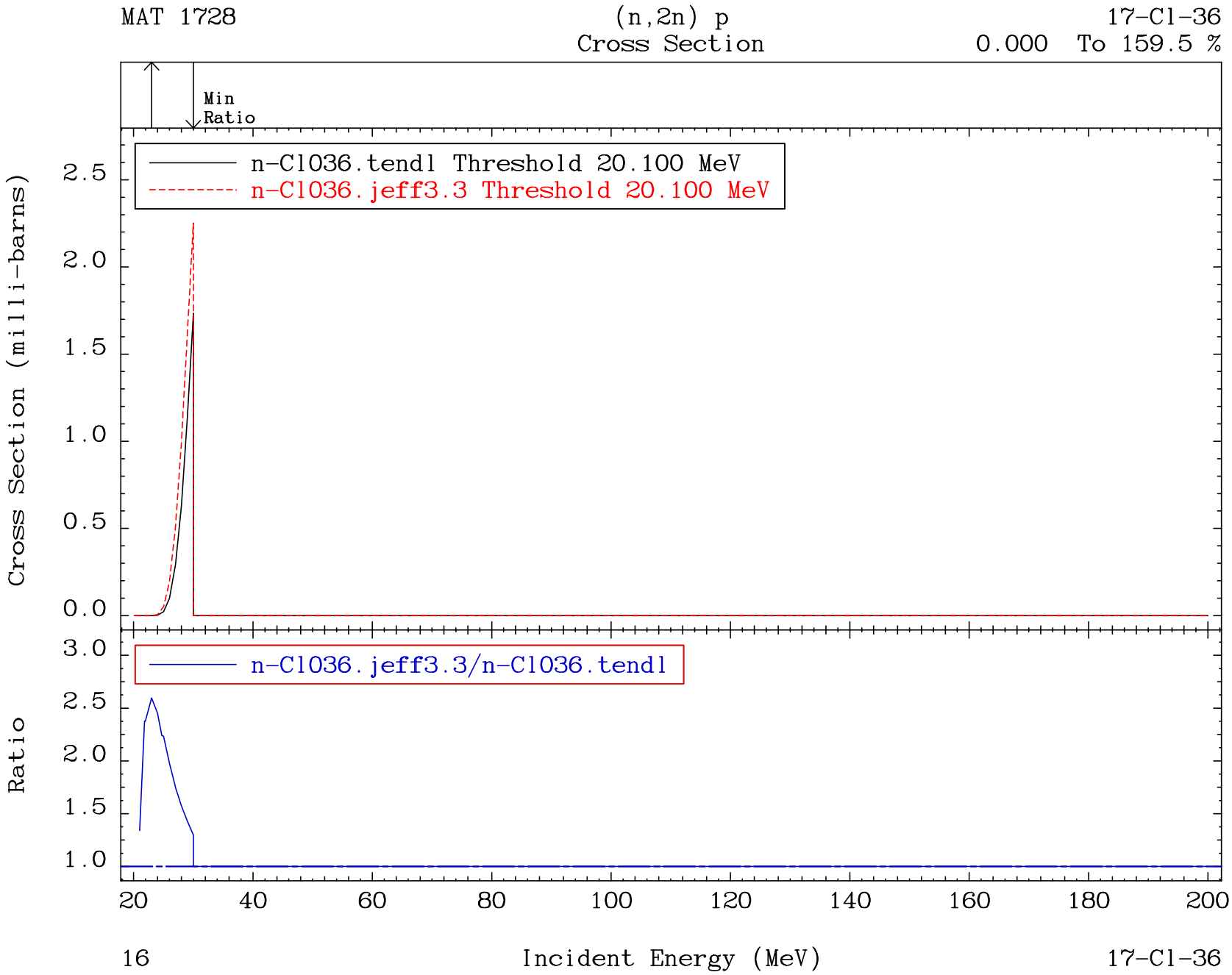

MAT 1728
(n,n') d
Cross Section
17-Cl-36
-51.68 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 13.083 MeV
n-Cl036.jeff3.3 Threshold 13.083 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
17-Cl-36

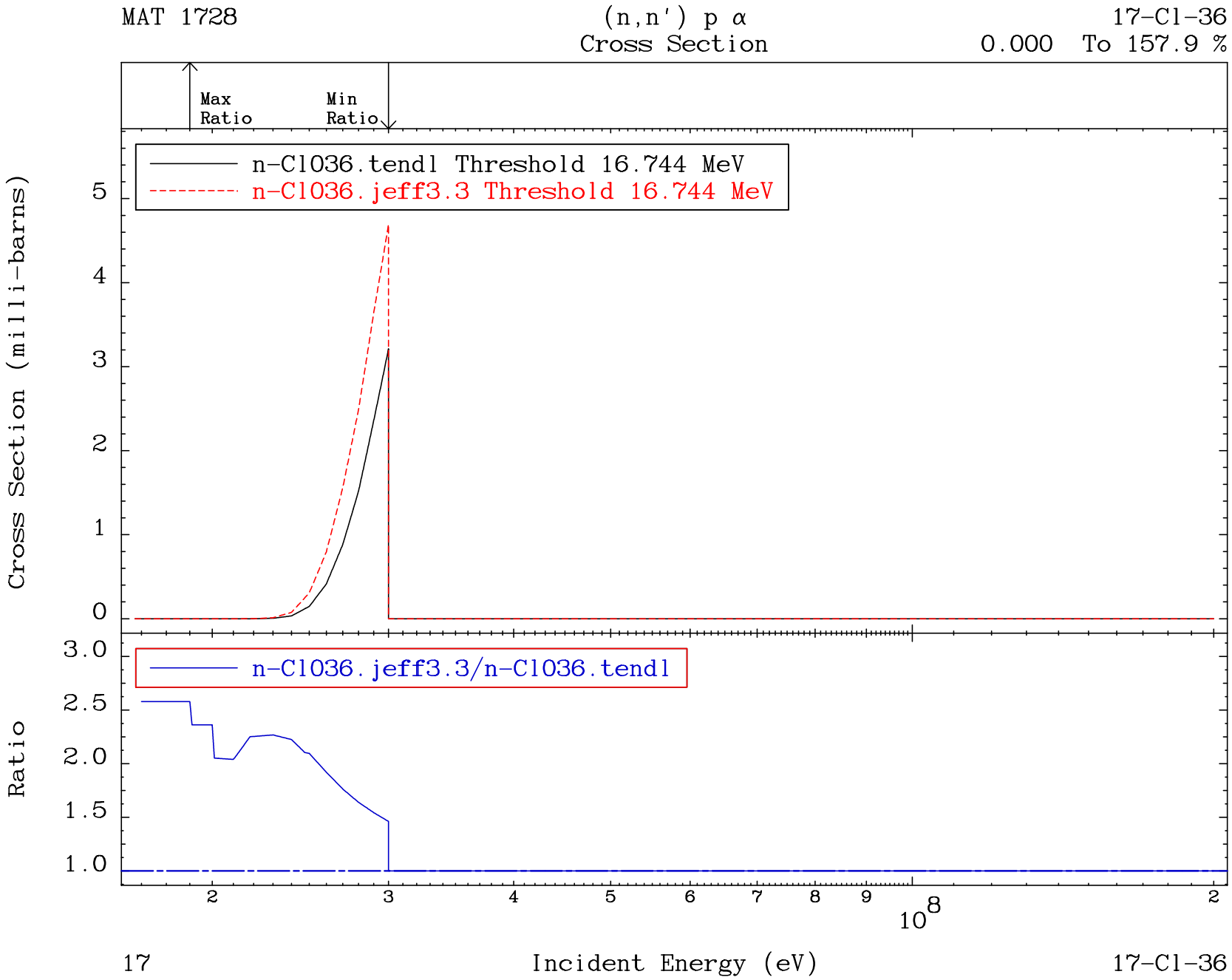

MAT 1728
(n,n') t
Cross Section
17-Cl-36
-45.69 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 18.301 MeV
n-Cl036.jeff3.3 Threshold 18.301 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
17-Cl-36

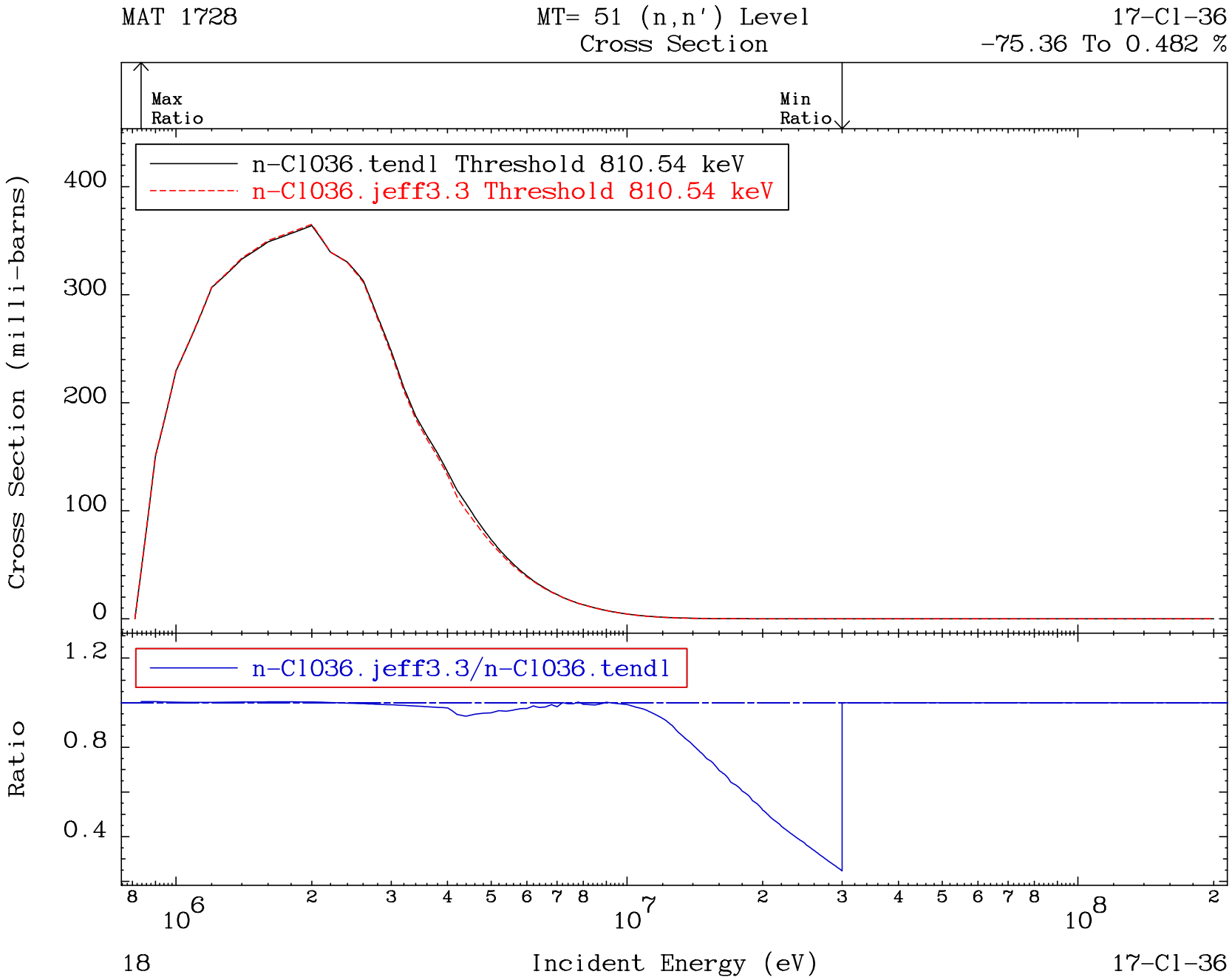

MAT 1728
(n,n') He-3
Cross Section
17-Cl-36
-40.15 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 18.624 MeV
n-Cl036.jeff3.3 Threshold 18.624 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
0.6
0.8
1.0
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
17-Cl-36

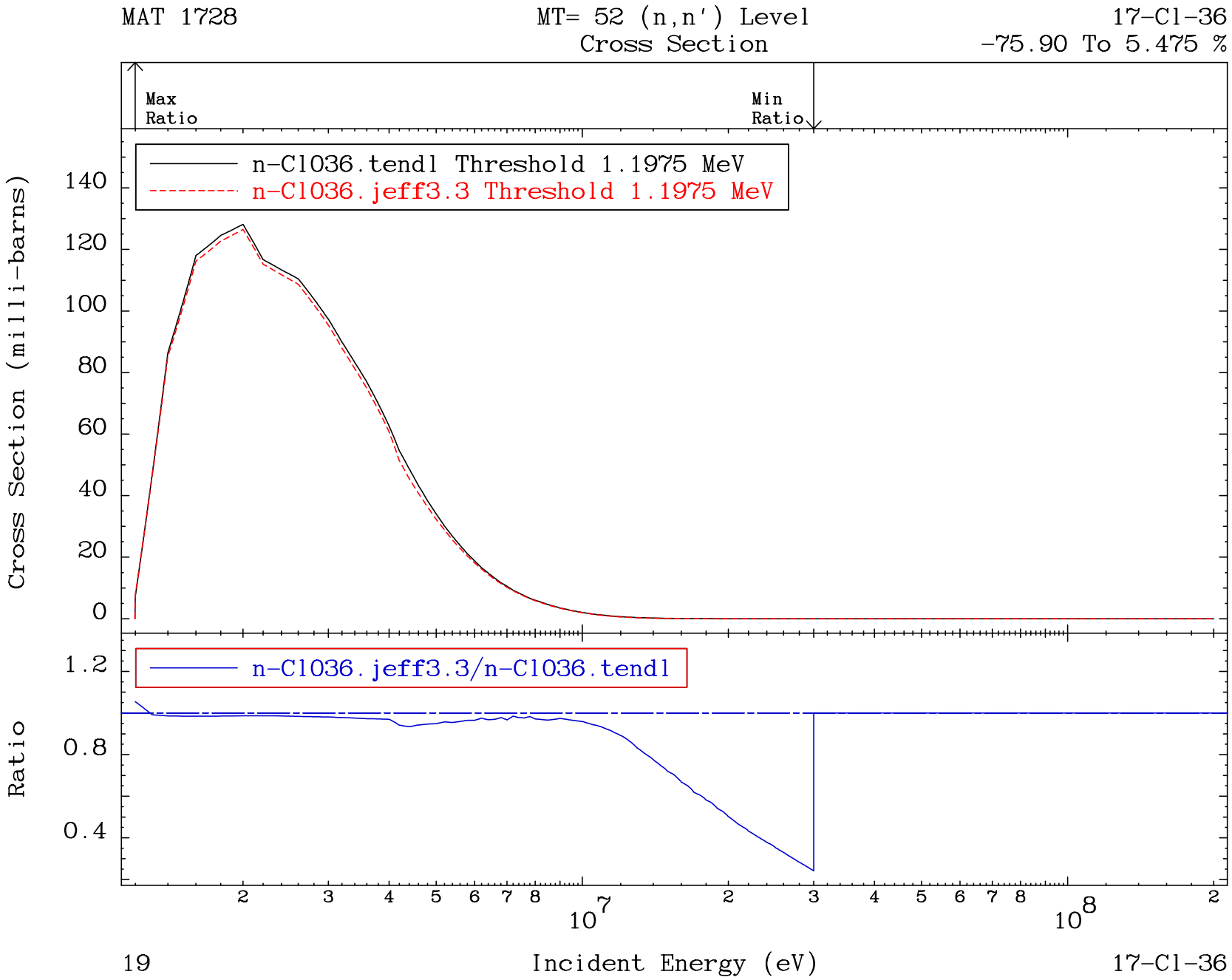

MAT 1728
(n,2n) p
Cross Section
17-Cl-36
-16.32 To 74.06 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 15.370 MeV
n-Cl036.jeff3.3 Threshold 15.370 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
2.0
1.6
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
17-Cl-36

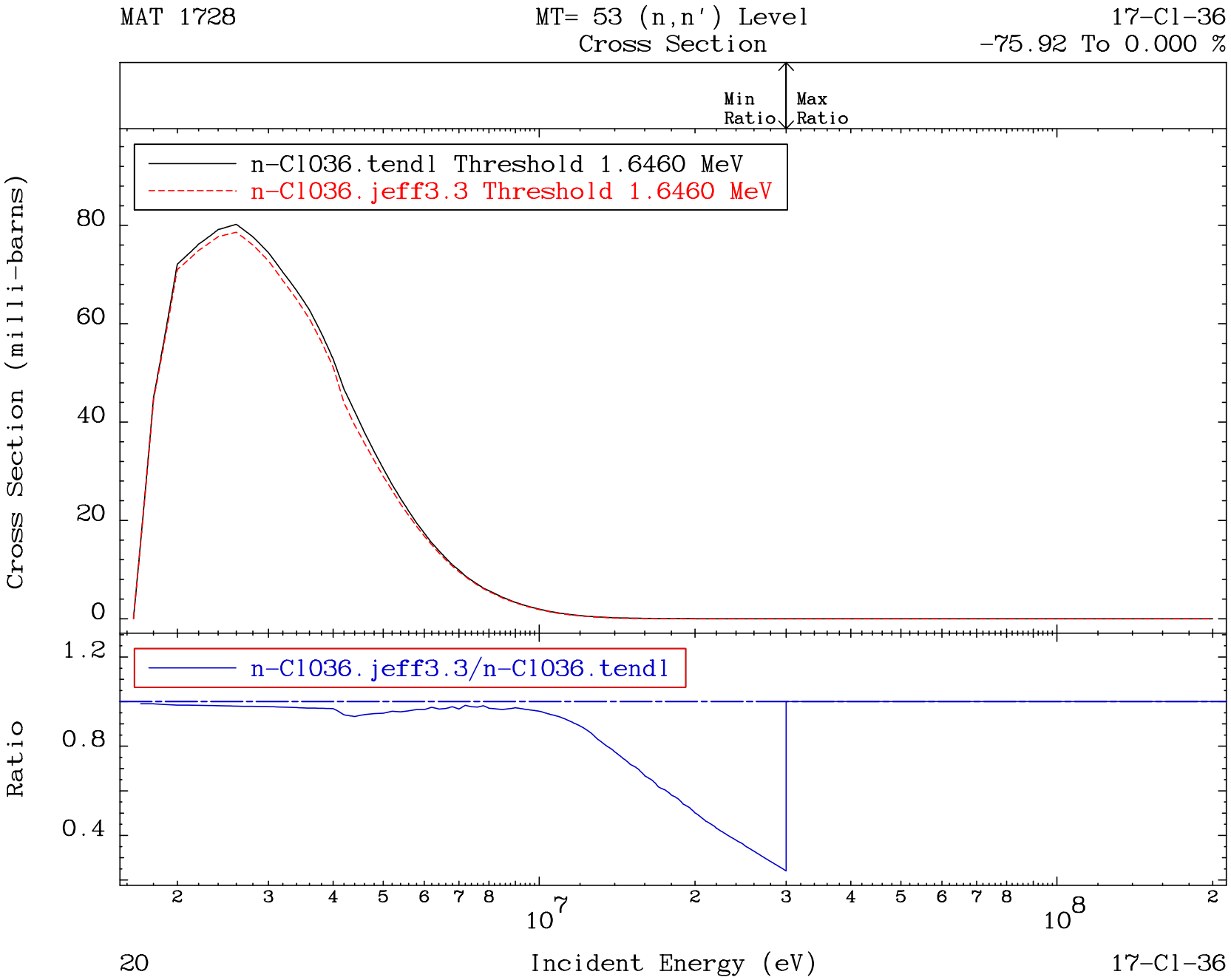

MAT 1728
(n,3n) p
Cross Section
17-Cl-36
0.000 To 117.3 %
Min
Ratio
n-Cl036.tendl Threshold 27.020 MeV
n-Cl036.jeff3.3 Threshold 27.020 MeV
n-Cl036.jeff3.3/n-Cl036.tendl
Cross Section (micro-barns)
Ratio
Incident Energy (MeV)
15
17-Cl-36

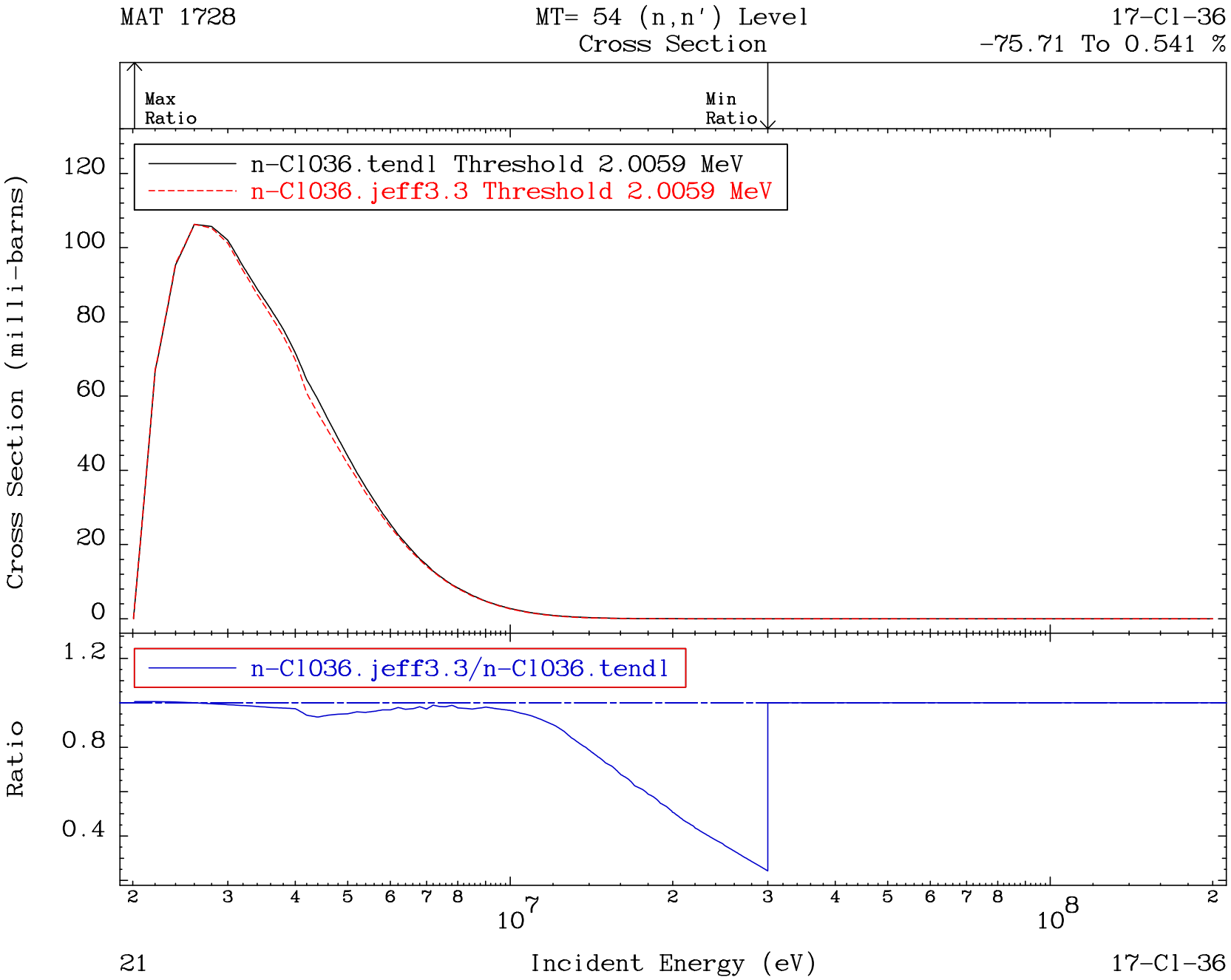

MAT 1728
(n,2n) p
Cross Section
17-Cl-36
0.000 To 159.5 %
Min
Ratio
n-Cl036.tendl Threshold 20.100 MeV
n-Cl036.jeff3.3 Threshold 20.100 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
3.0
2.5
2.0
1.5
1.0
20
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
17-Cl-36

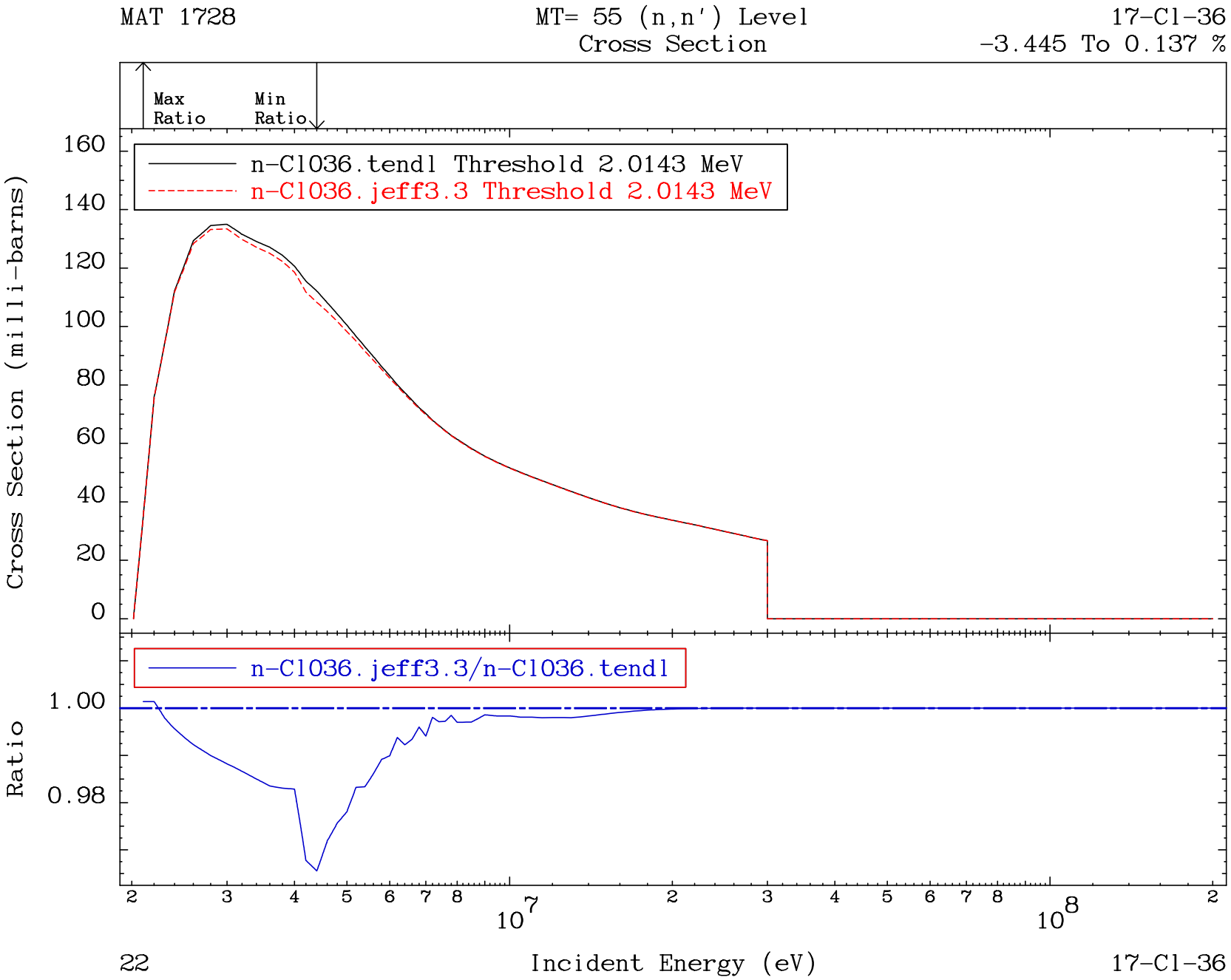

MAT 1728
(n,n') p α
Cross Section
17-Cl-36
0.000 To 157.9 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 16.744 MeV
n-Cl036.jeff3.3 Threshold 16.744 MeV
Cross Section (milli-barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
17
17-Cl-36

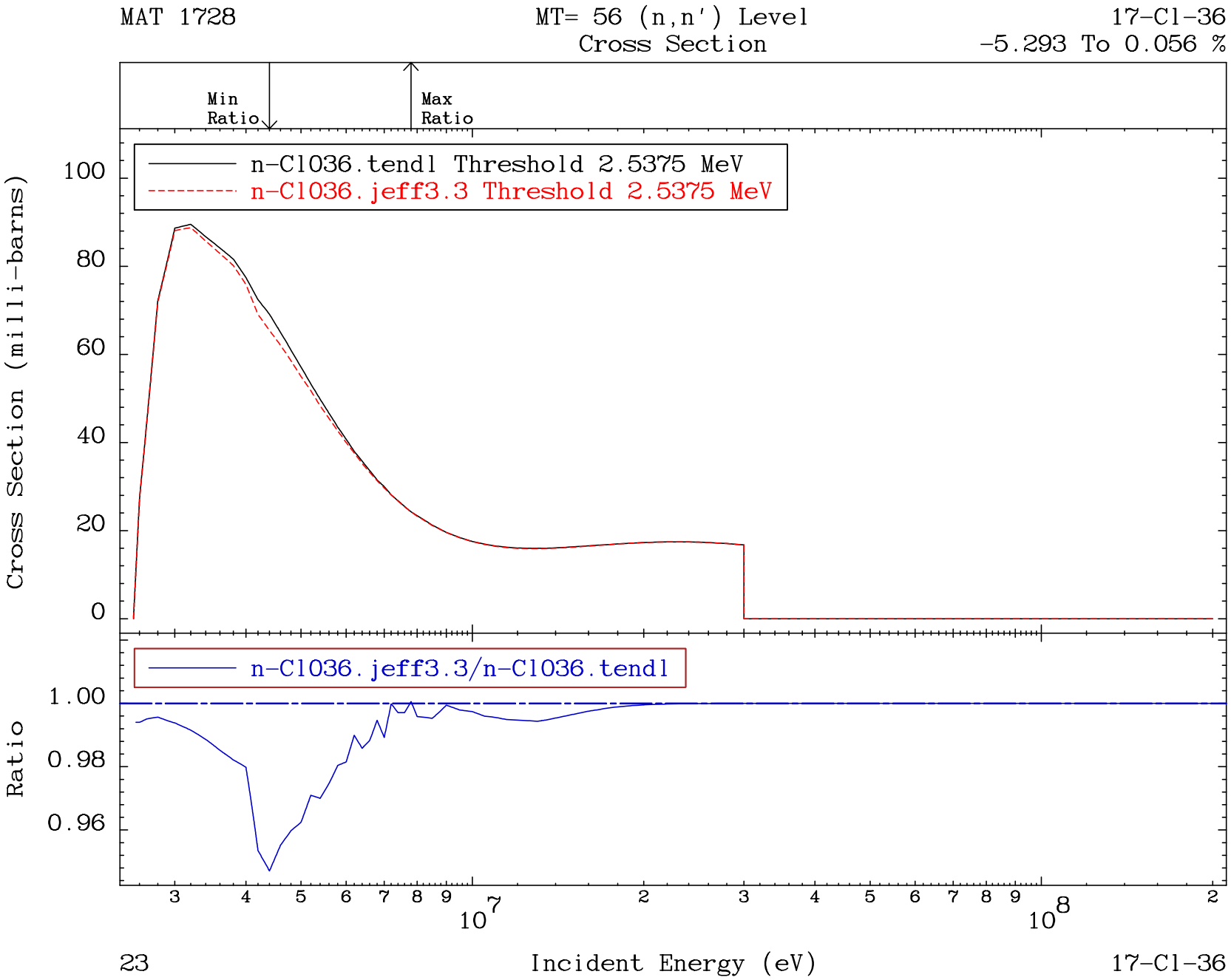

MAT 1728
MT= 51 (n,n') Level
Cross Section
17-Cl-36
-75.36 To 0.482 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 810.54 keV
n-Cl036.jeff3.3 Threshold 810.54 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
0.8
0.4
8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2
10^6
10^7
10^8
18
Incident Energy (eV)
17-Cl-36

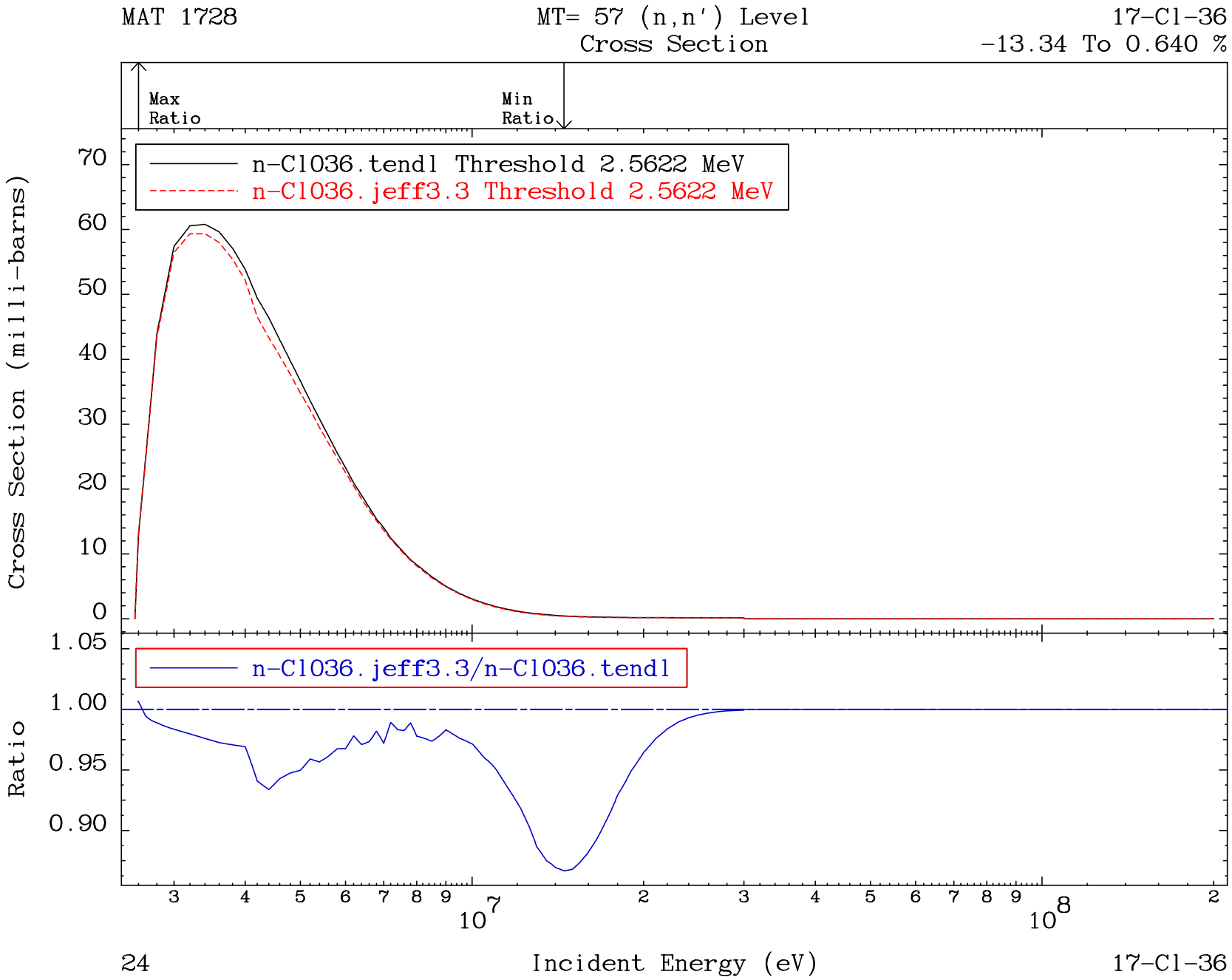

MAT 1728
MT= 52 (n,n') Level
Cross Section
17-Cl-36
-75.90 To 5.475 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 1.1975 MeV
n-Cl036.jeff3.3 Threshold 1.1975 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
17-Cl-36

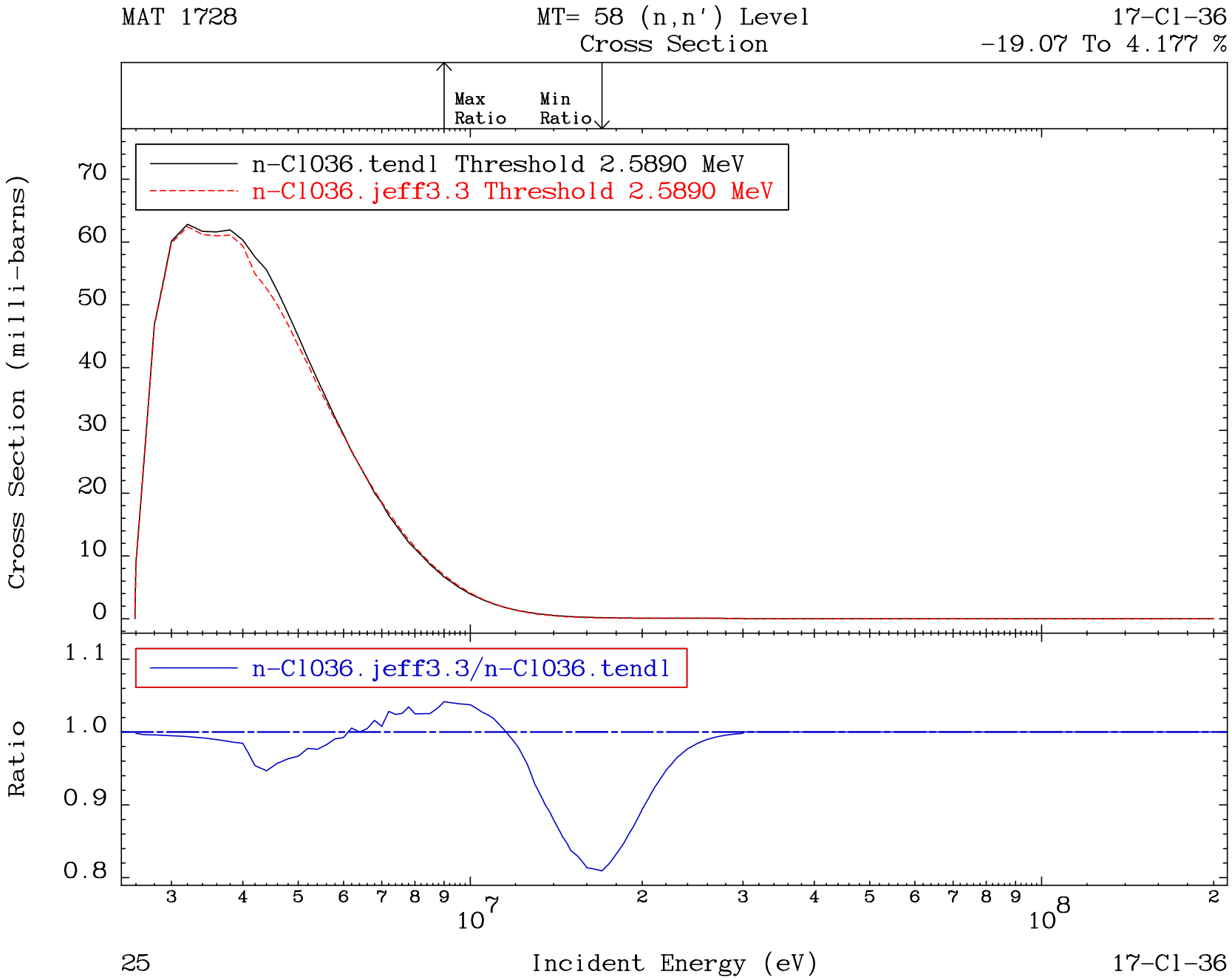

MAT 1728
MT= 53 (n,n') Level
Cross Section
17-Cl-36
-75.92 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 1.6460 MeV
n-Cl036.jeff3.3 Threshold 1.6460 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
17-Cl-36

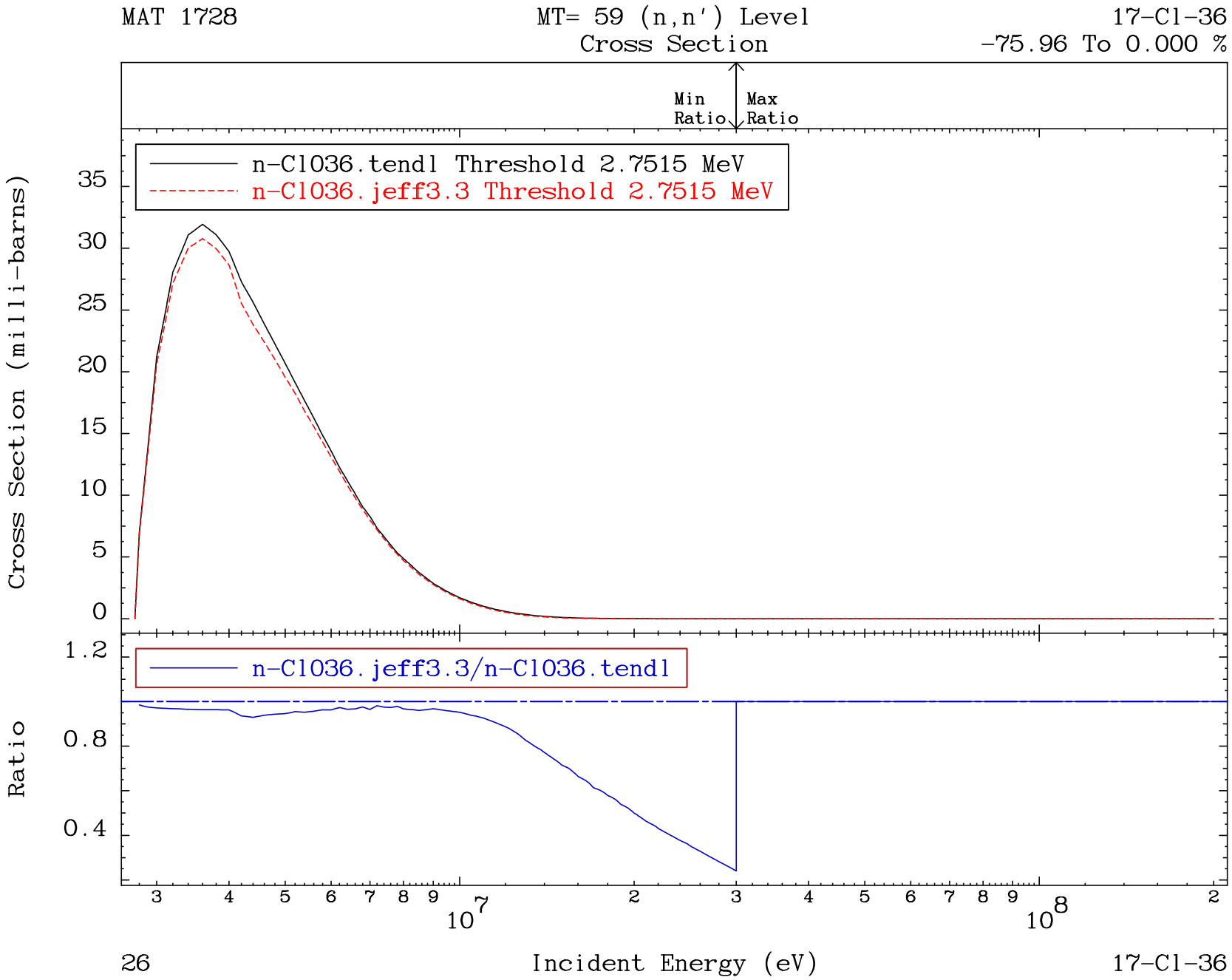

MAT 1728
MT= 54 (n,n') Level
Cross Section
17-Cl-36
-75.71 To 0.541 %
Max
Ratio
Min
Ratio
n-Cl036.tendl Threshold 2.0059 MeV
n-Cl036.jeff3.3 Threshold 2.0059 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
17-Cl-36

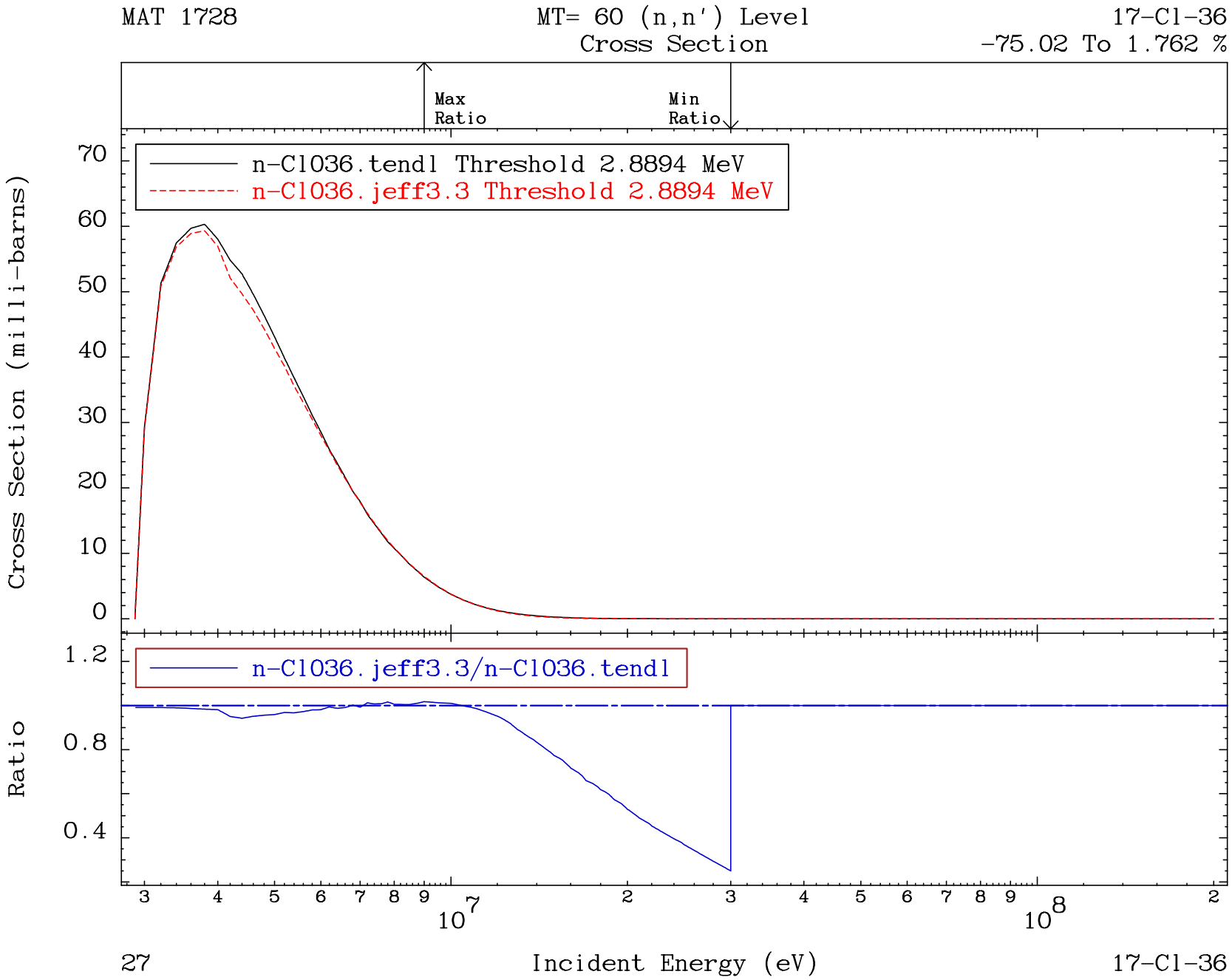

MAT 1728
MT= 55 (n,n') Level
Cross Section
17-Cl-36
-3.445 To 0.137 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 2.0143 MeV
n-Cl036.jeff3.3 Threshold 2.0143 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.00
0.98
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
17-Cl-36

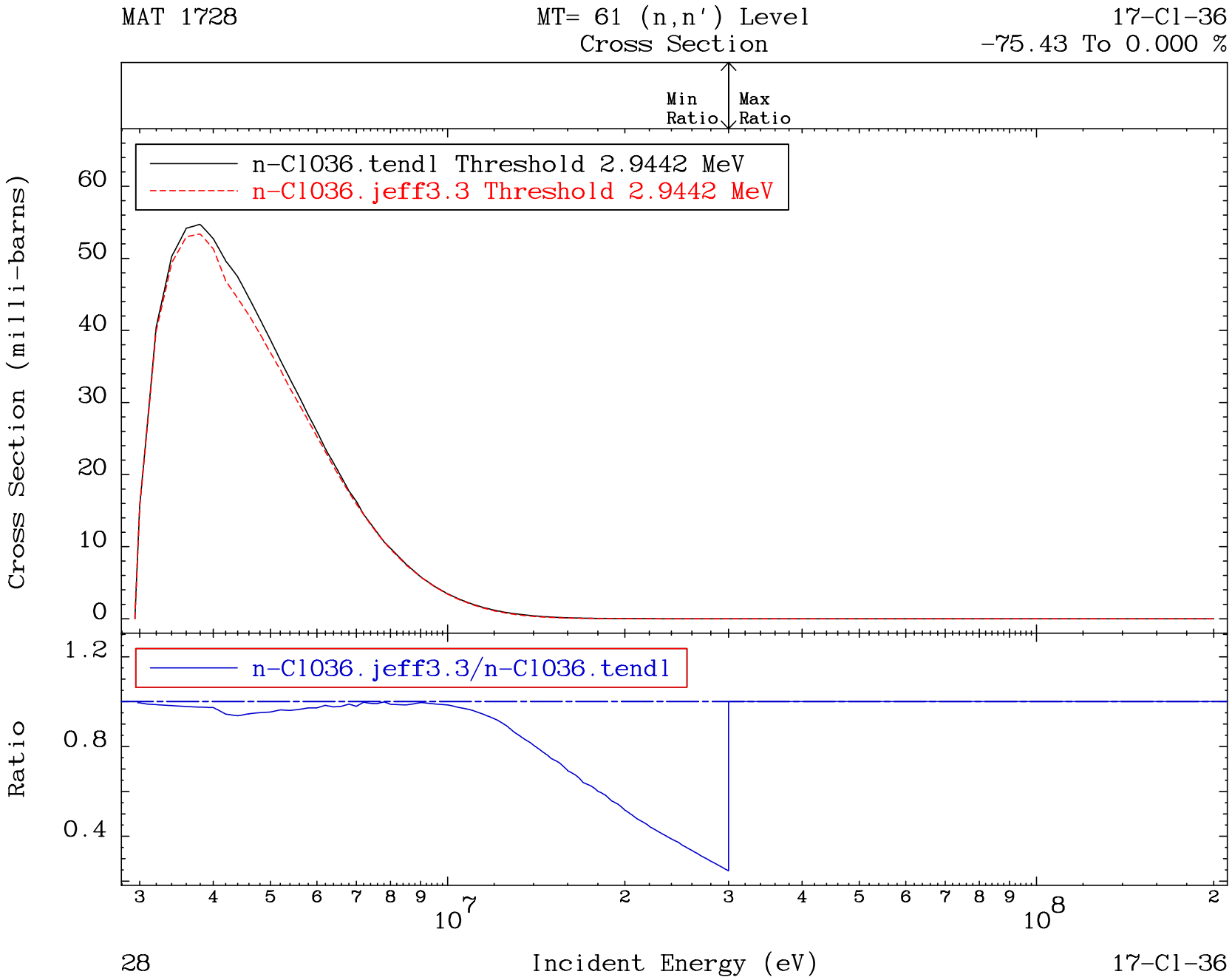

MAT 1728
MT= 56 (n,n') Level
Cross Section
17-Cl-36
-5.293 To 0.056 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 2.5375 MeV
n-Cl036.jeff3.3 Threshold 2.5375 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.00
0.98
0.96
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
17-Cl-36

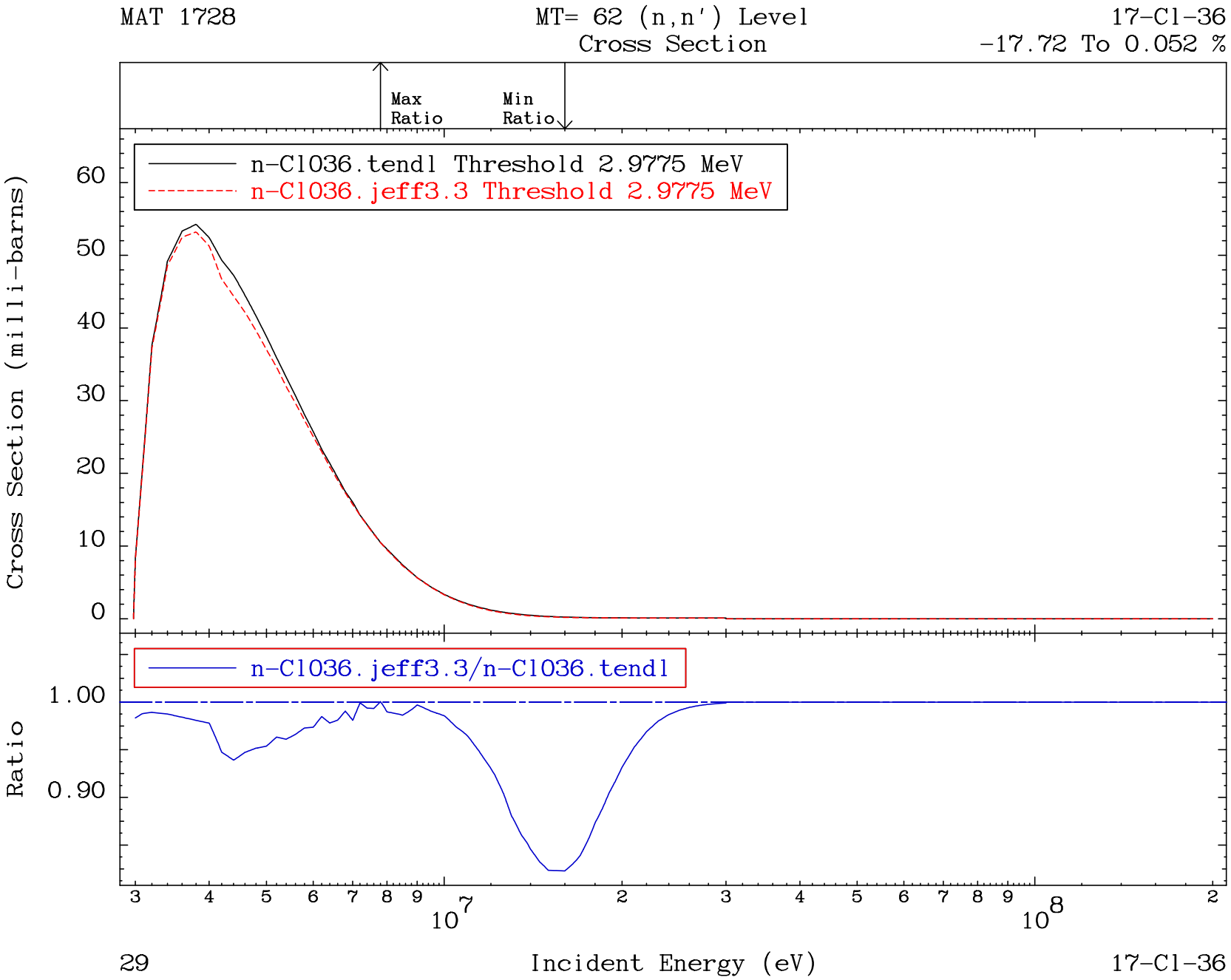

MAT 1728
MT= 57 (n,n') Level
Cross Section
17-Cl-36
-13.34 To 0.640 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 2.5622 MeV
n-Cl036.jeff3.3 Threshold 2.5622 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.05
1.00
0.95
0.90
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
17-Cl-36

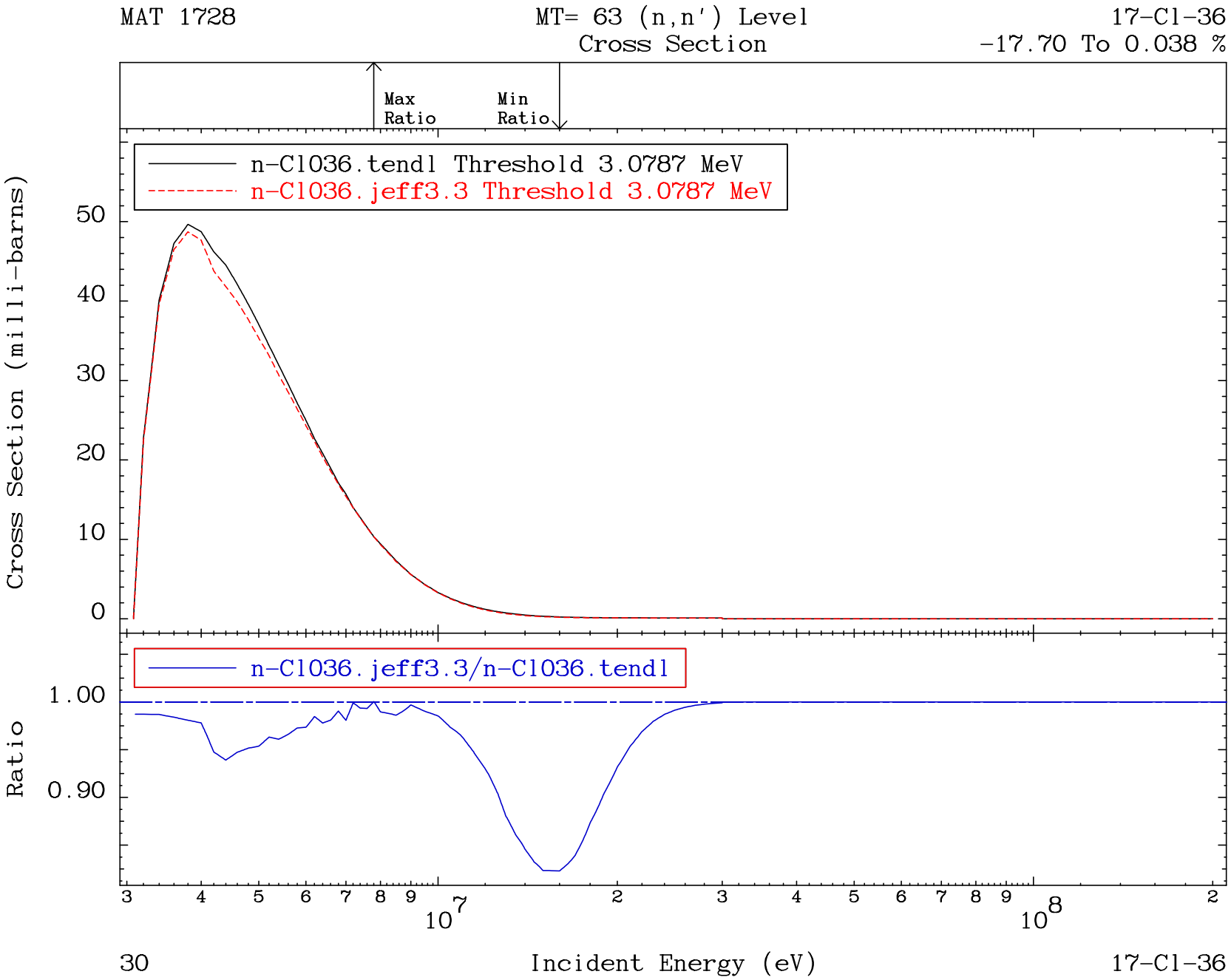

MAT 1728
MT= 58 (n,n') Level
Cross Section
17-Cl-36
-19.07 To 4.177 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 2.5890 MeV
n-Cl036.jeff3.3 Threshold 2.5890 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.1
1.0
0.9
0.8
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
25
Incident Energy (eV)
17-Cl-36

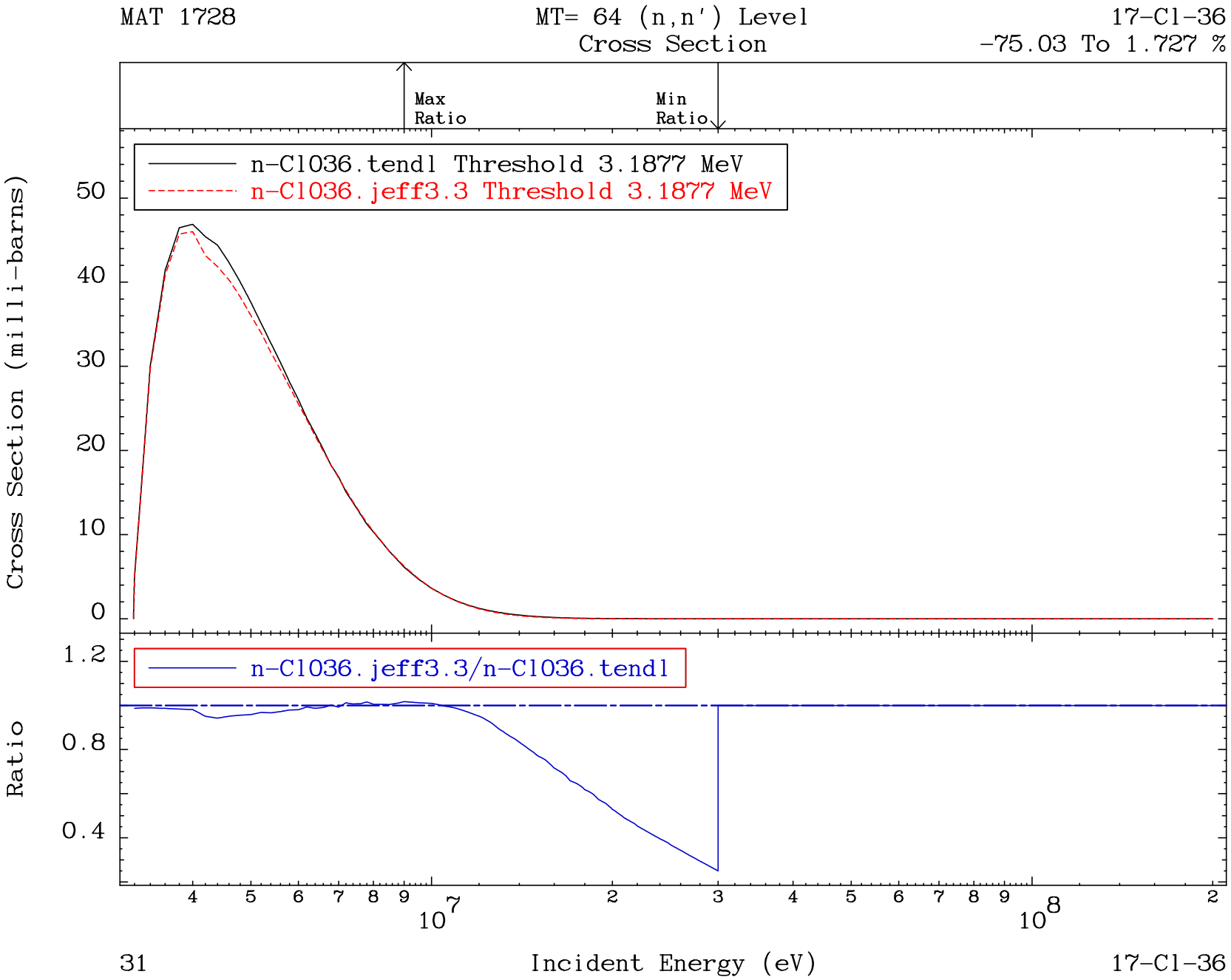

MAT 1728
MT= 59 (n,n') Level
Cross Section
17-Cl-36
-75.96 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 2.7515 MeV
n-Cl036.jeff3.3 Threshold 2.7515 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
26
Incident Energy (eV)
17-Cl-36

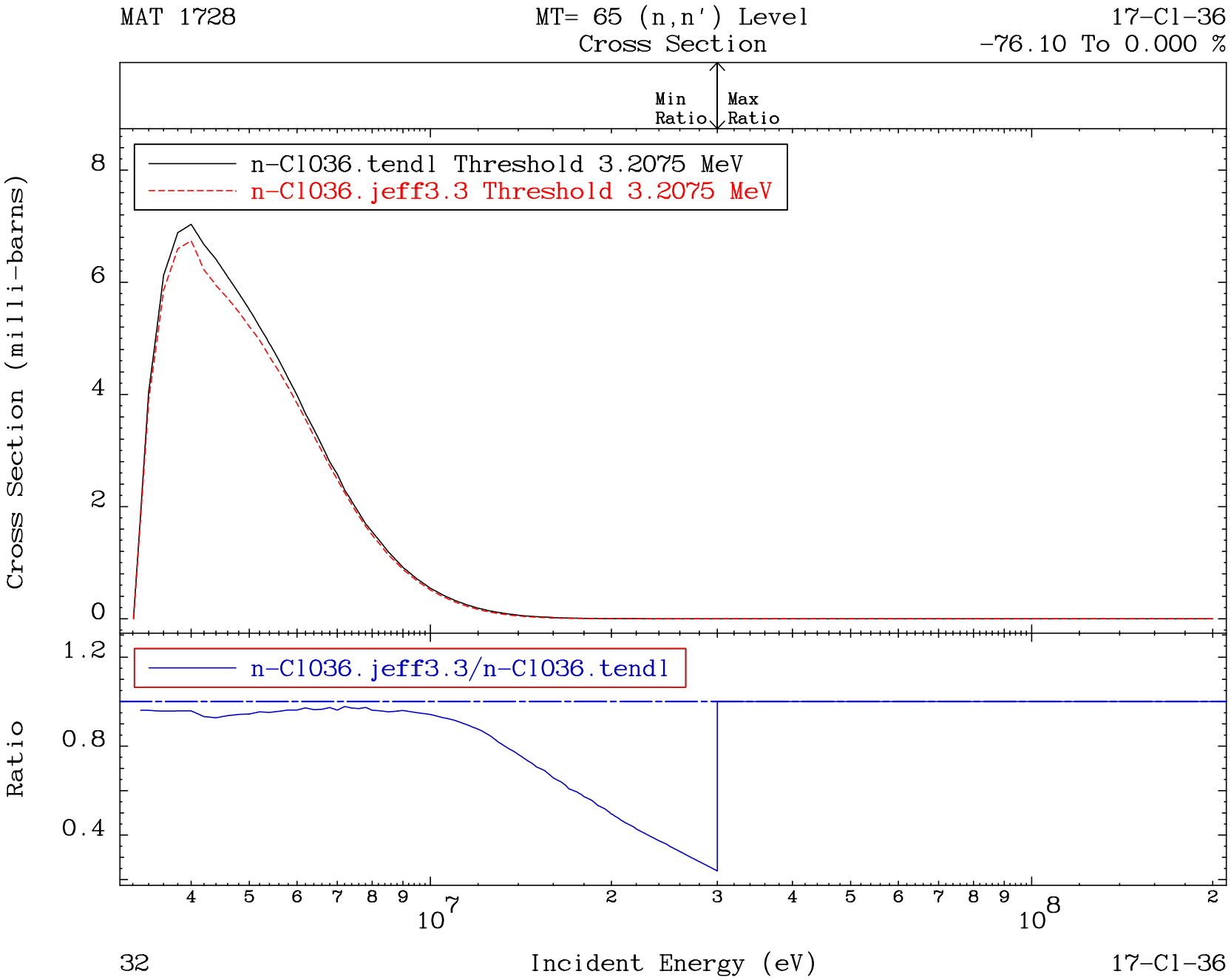

MAT 1728
MT= 60 (n,n') Level
Cross Section
17-Cl-36
-75.02 To 1.762 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 2.8894 MeV
n-Cl036.jeff3.3 Threshold 2.8894 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
17-Cl-36

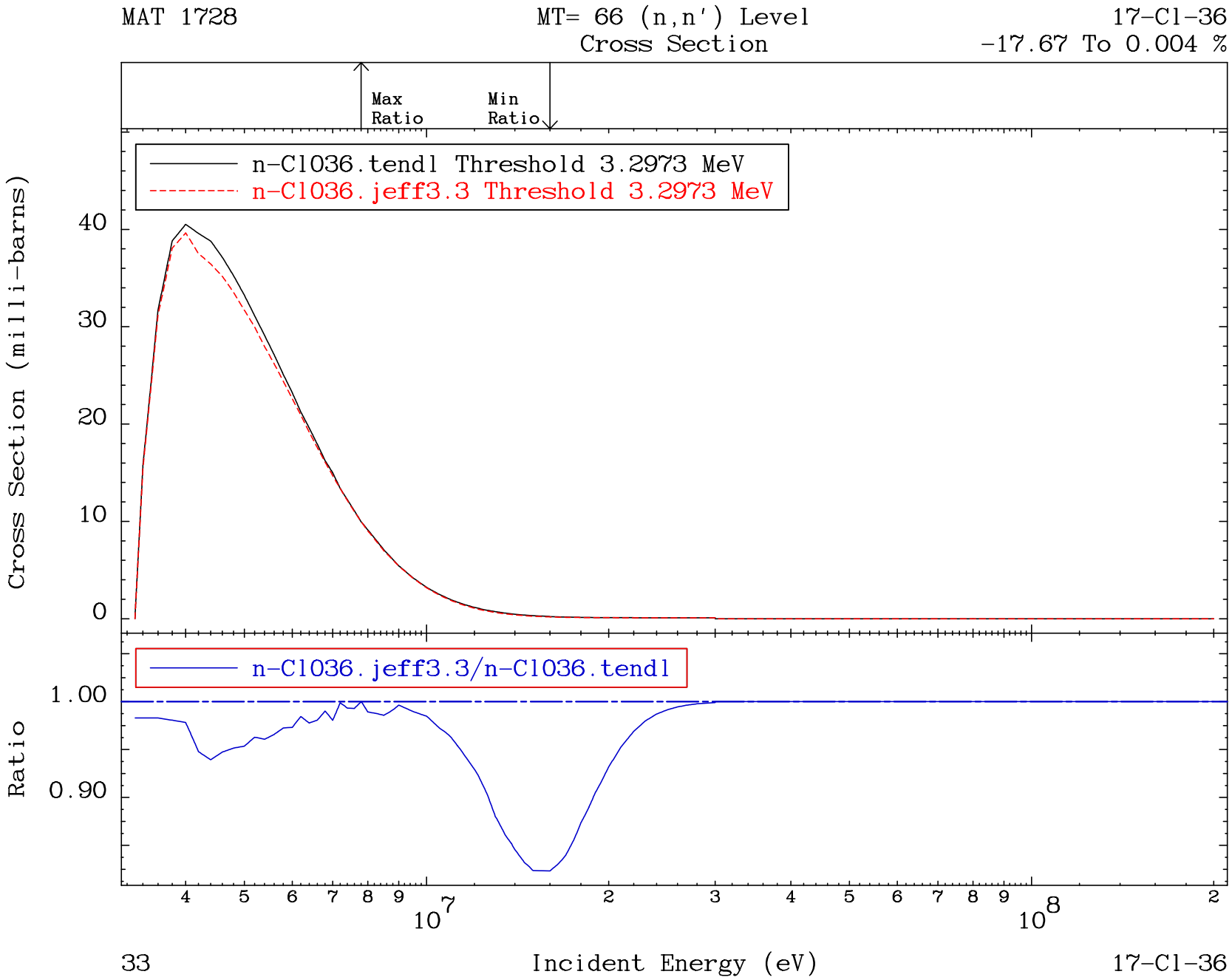

MAT 1728
MT= 61 (n,n') Level
Cross Section
17-Cl-36
-75.43 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 2.9442 MeV
n-Cl036.jeff3.3 Threshold 2.9442 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
17-Cl-36

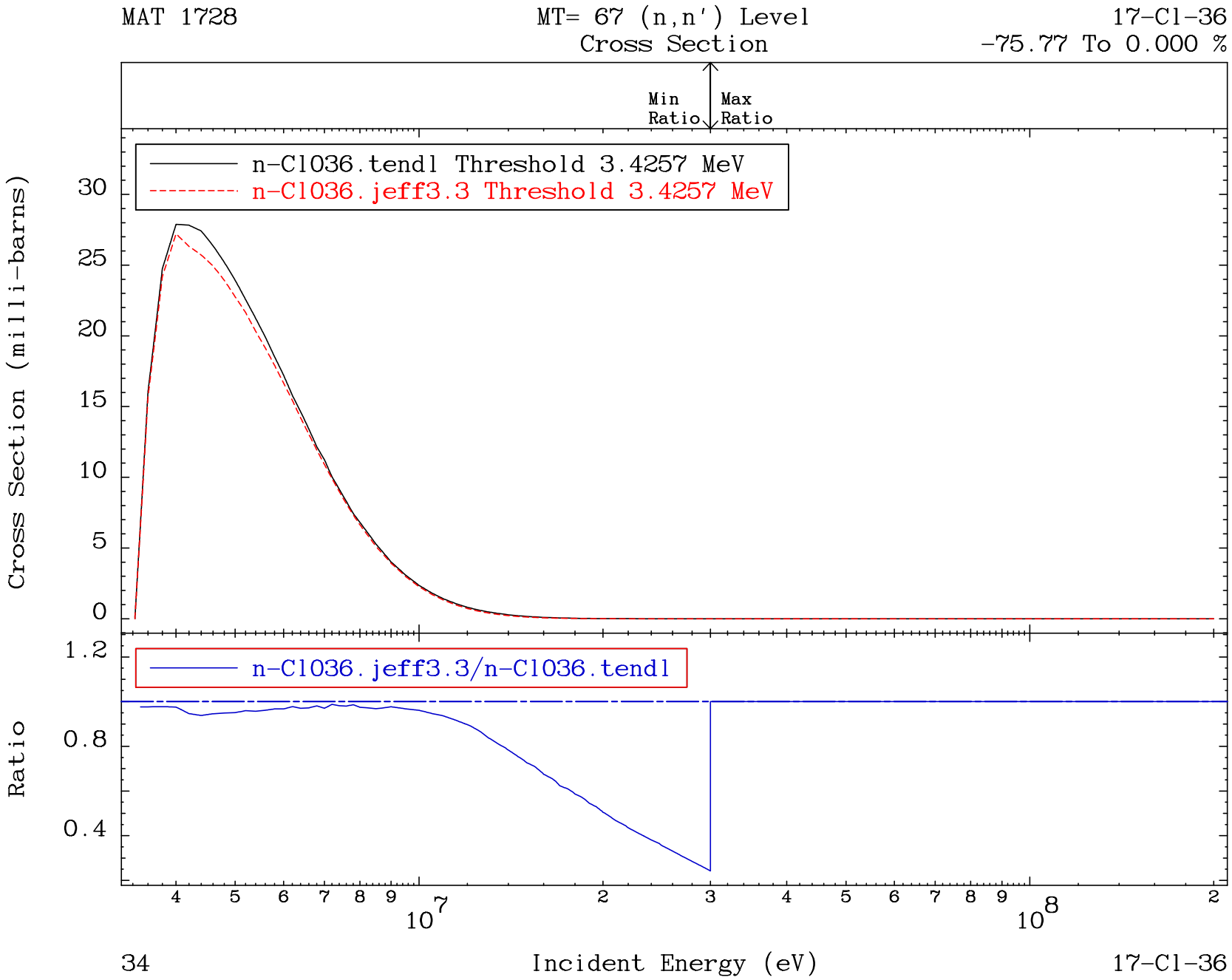

MAT 1728
MT= 62 (n,n') Level
Cross Section
17-Cl-36
-17.72 To 0.052 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 2.9775 MeV
n-Cl036.jeff3.3 Threshold 2.9775 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.00
0.90
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
17-Cl-36

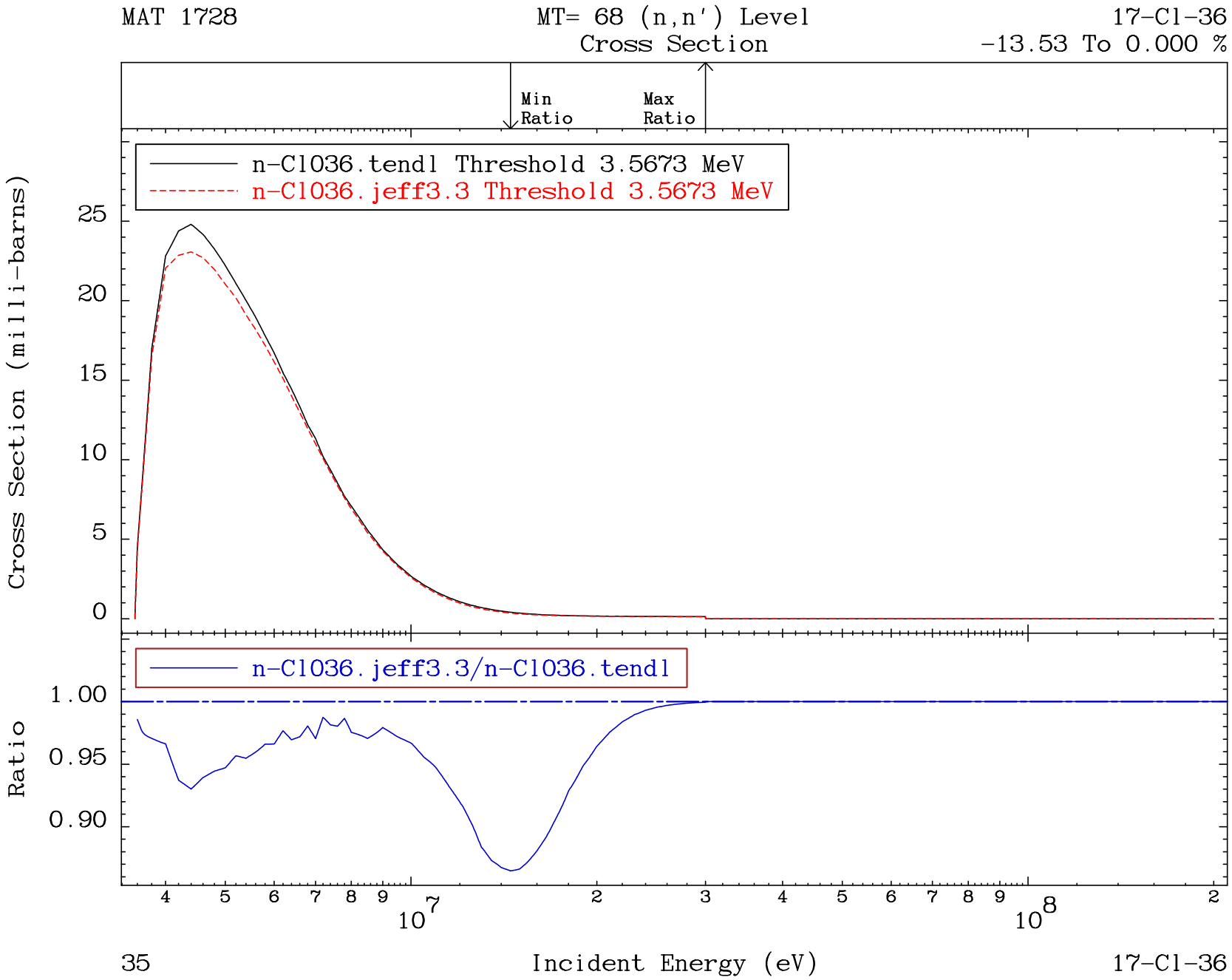

MAT 1728
MT= 63 (n,n') Level
Cross Section
17-Cl-36
-17.70 To 0.038 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 3.0787 MeV
n-Cl036.jeff3.3 Threshold 3.0787 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.00
0.90
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
17-Cl-36

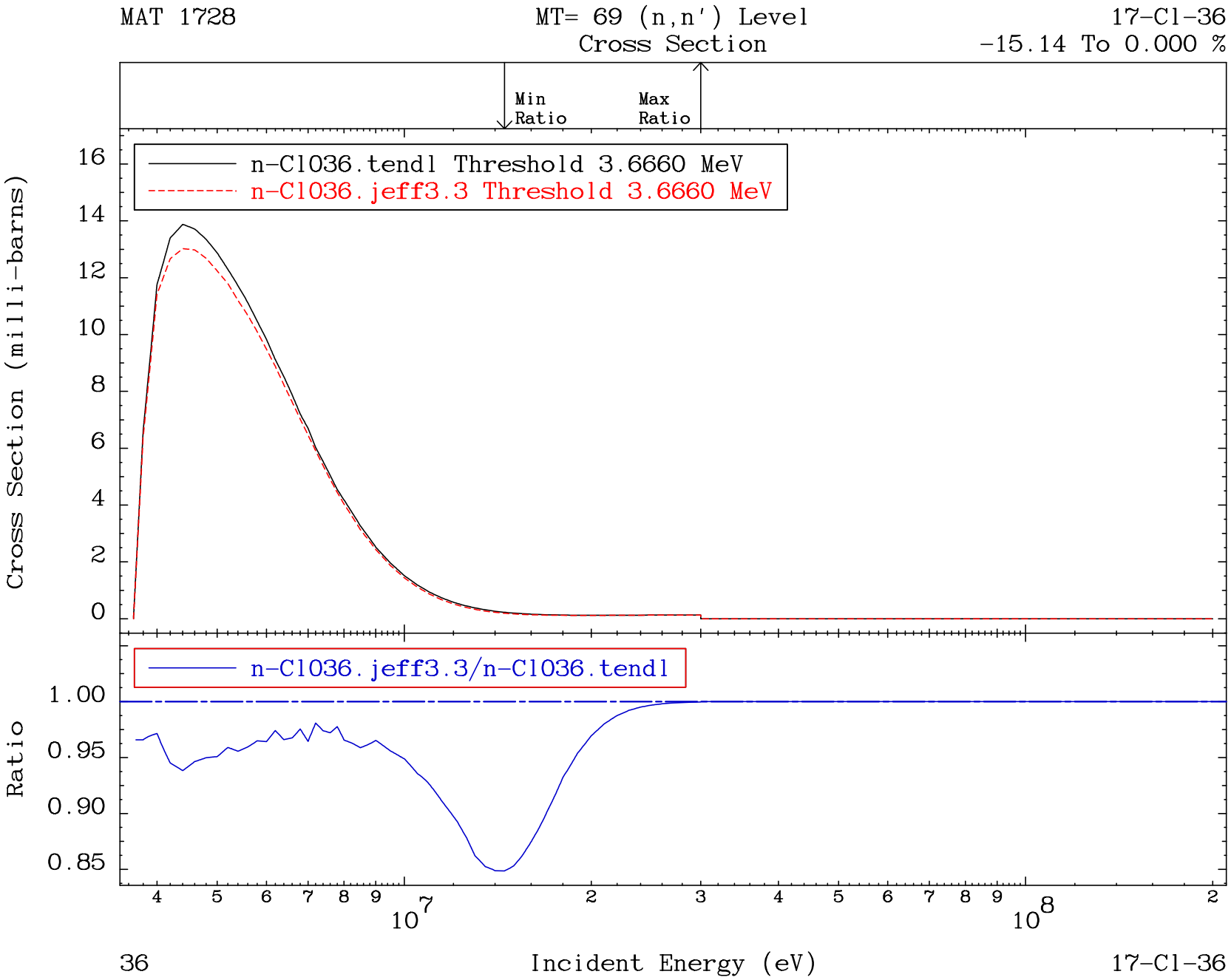

MAT 1728
MT= 64 (n,n') Level
Cross Section
17-Cl-36
-75.03 To 1.727 %
Max
Ratio
Min
Ratio
n-Cl036.tendl Threshold 3.1877 MeV
n-Cl036.jeff3.3 Threshold 3.1877 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
17-Cl-36

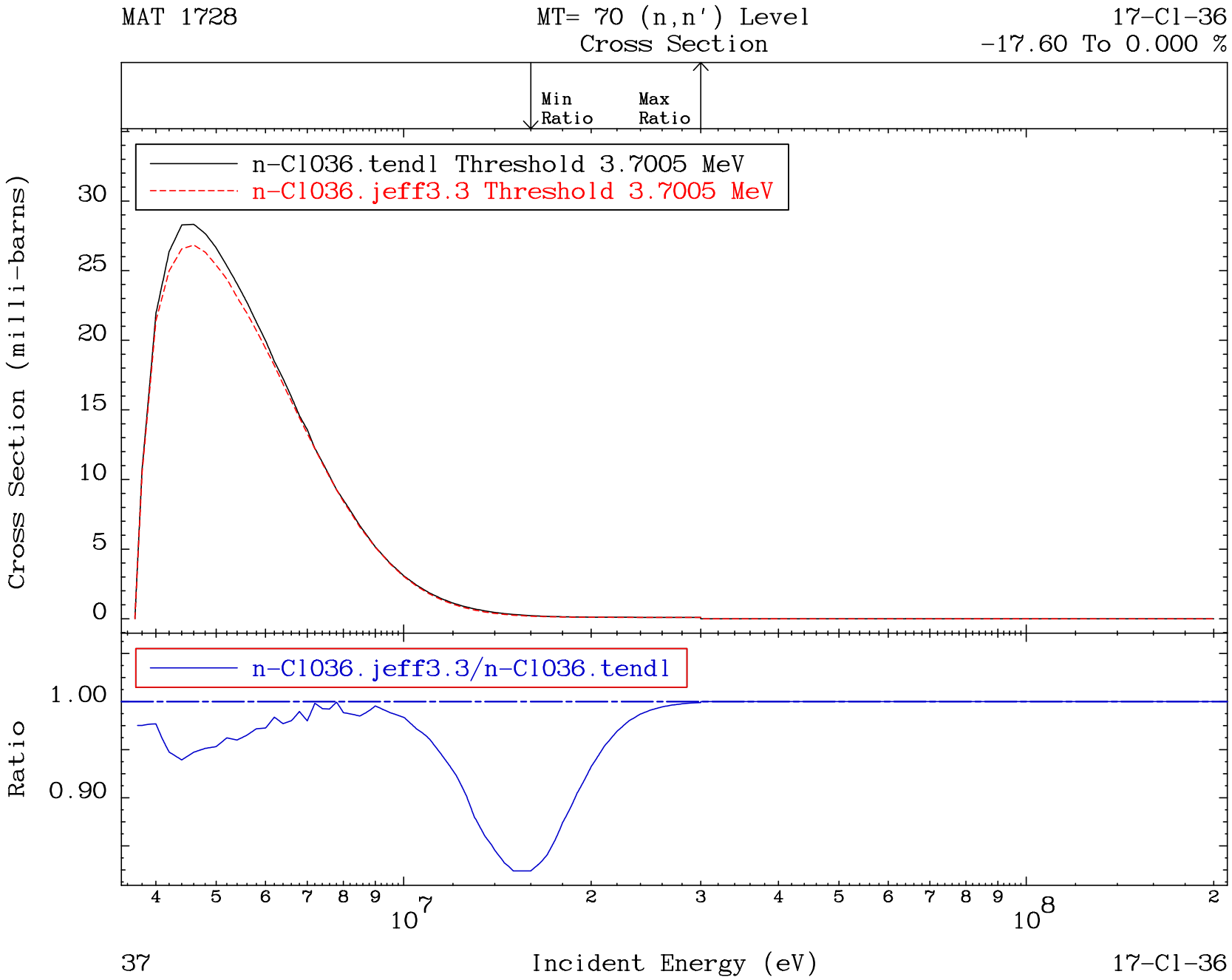

MAT 1728
MT= 65 (n,n') Level
Cross Section
17-Cl-36
-76.10 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 3.2075 MeV
n-Cl036.jeff3.3 Threshold 3.2075 MeV
Cross Section (milli-barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
32
17-Cl-36

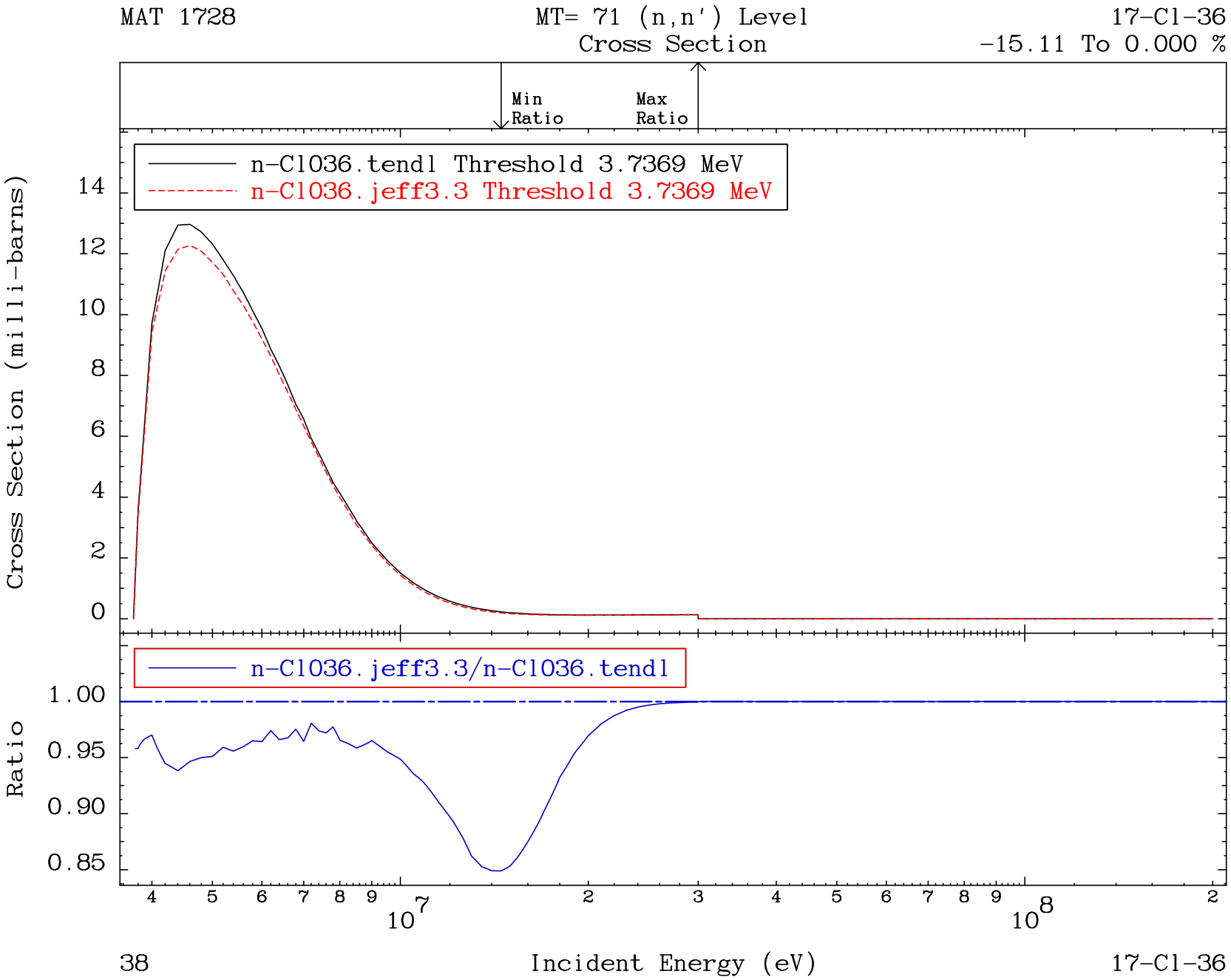

MAT 1728
MT= 66 (n,n') Level
Cross Section
17-Cl-36
-17.67 To 0.004 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 3.2973 MeV
n-Cl036.jeff3.3 Threshold 3.2973 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.00
0.90
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
17-Cl-36

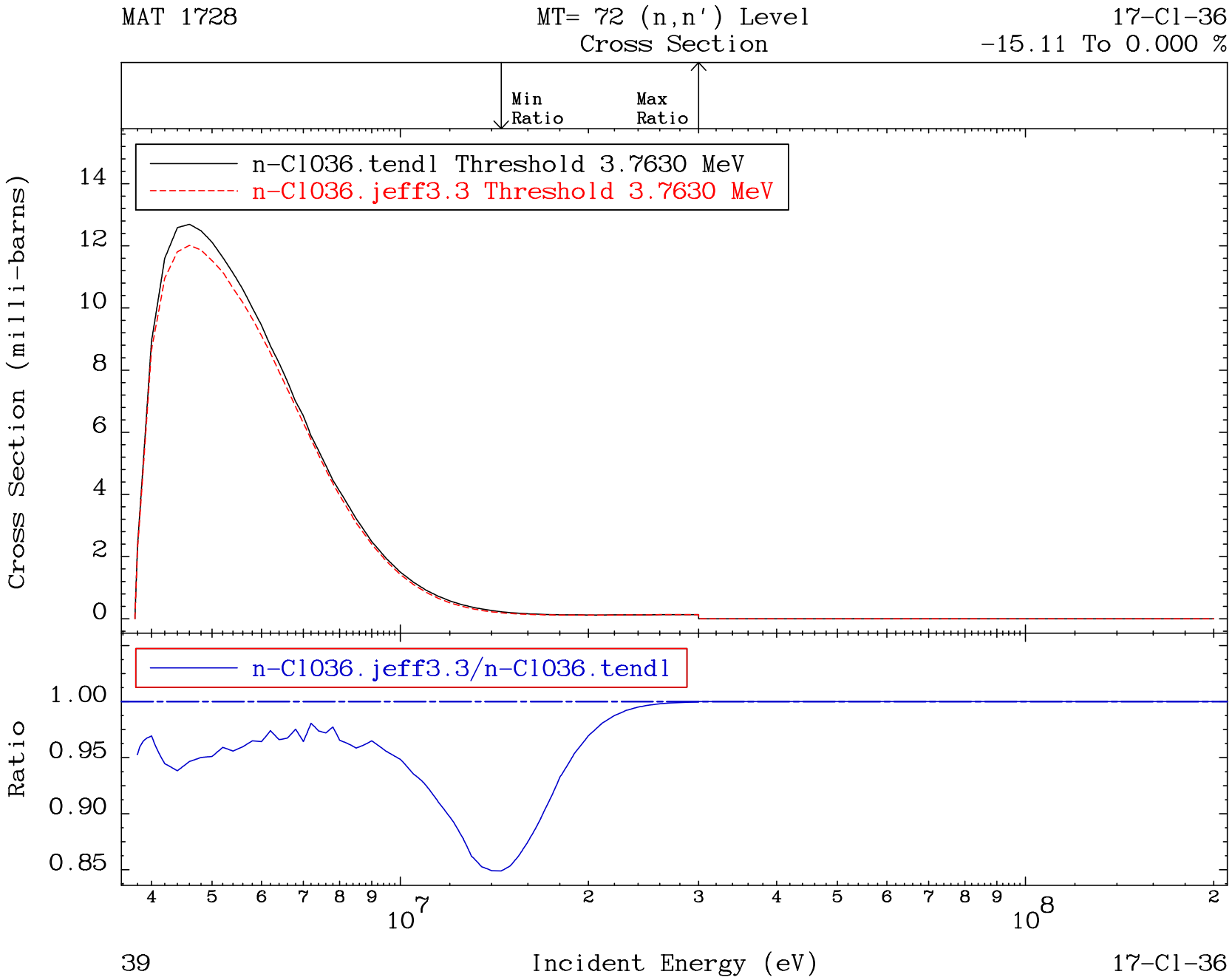

MAT 1728
MT= 67 (n,n') Level
Cross Section
17-Cl-36
-75.77 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 3.4257 MeV
n-Cl036.jeff3.3 Threshold 3.4257 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
17-Cl-36

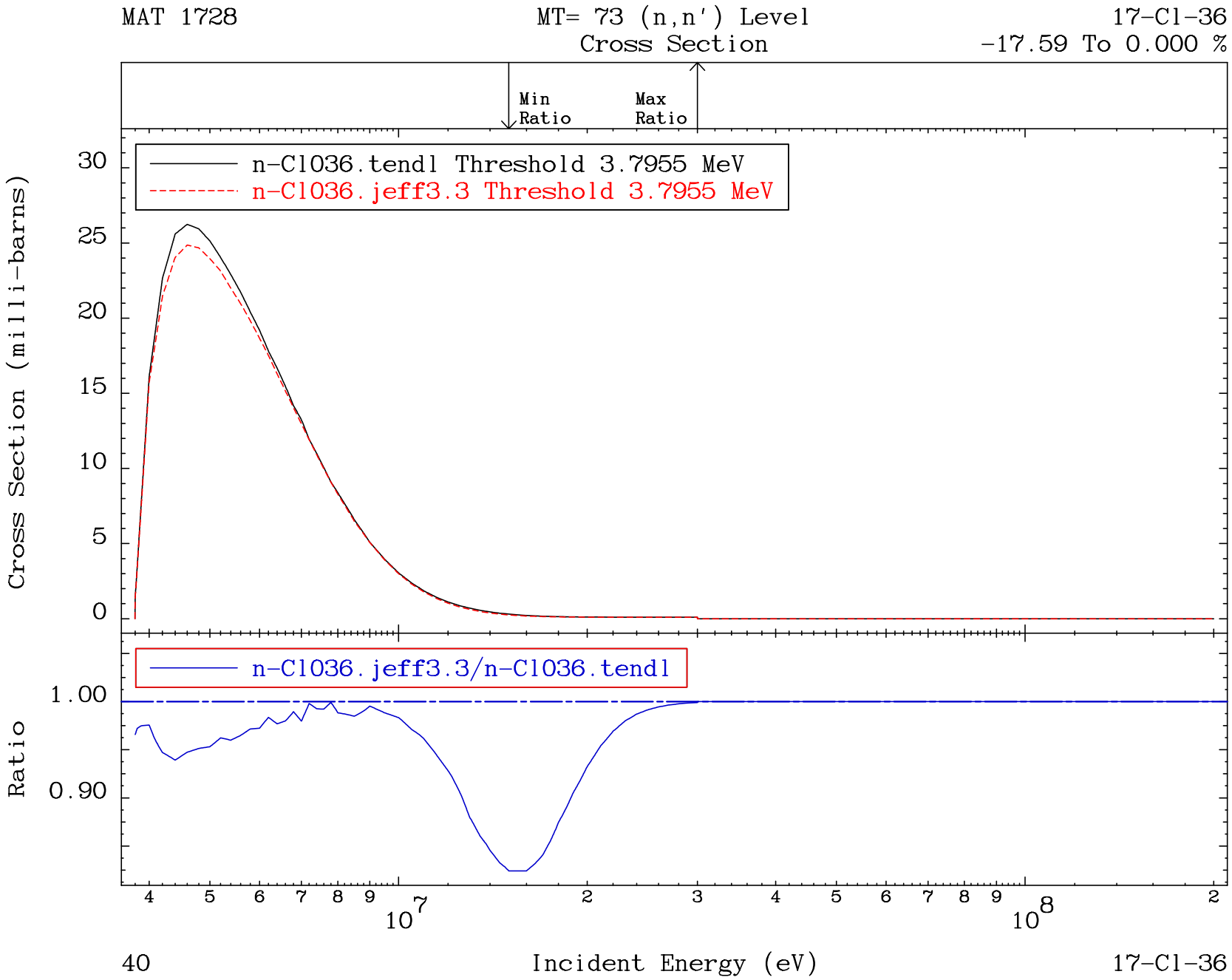

MAT 1728
MT= 68 (n,n') Level
Cross Section
17-Cl-36
-13.53 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 3.5673 MeV
n-Cl036.jeff3.3 Threshold 3.5673 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.00
0.95
0.90
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
17-Cl-36

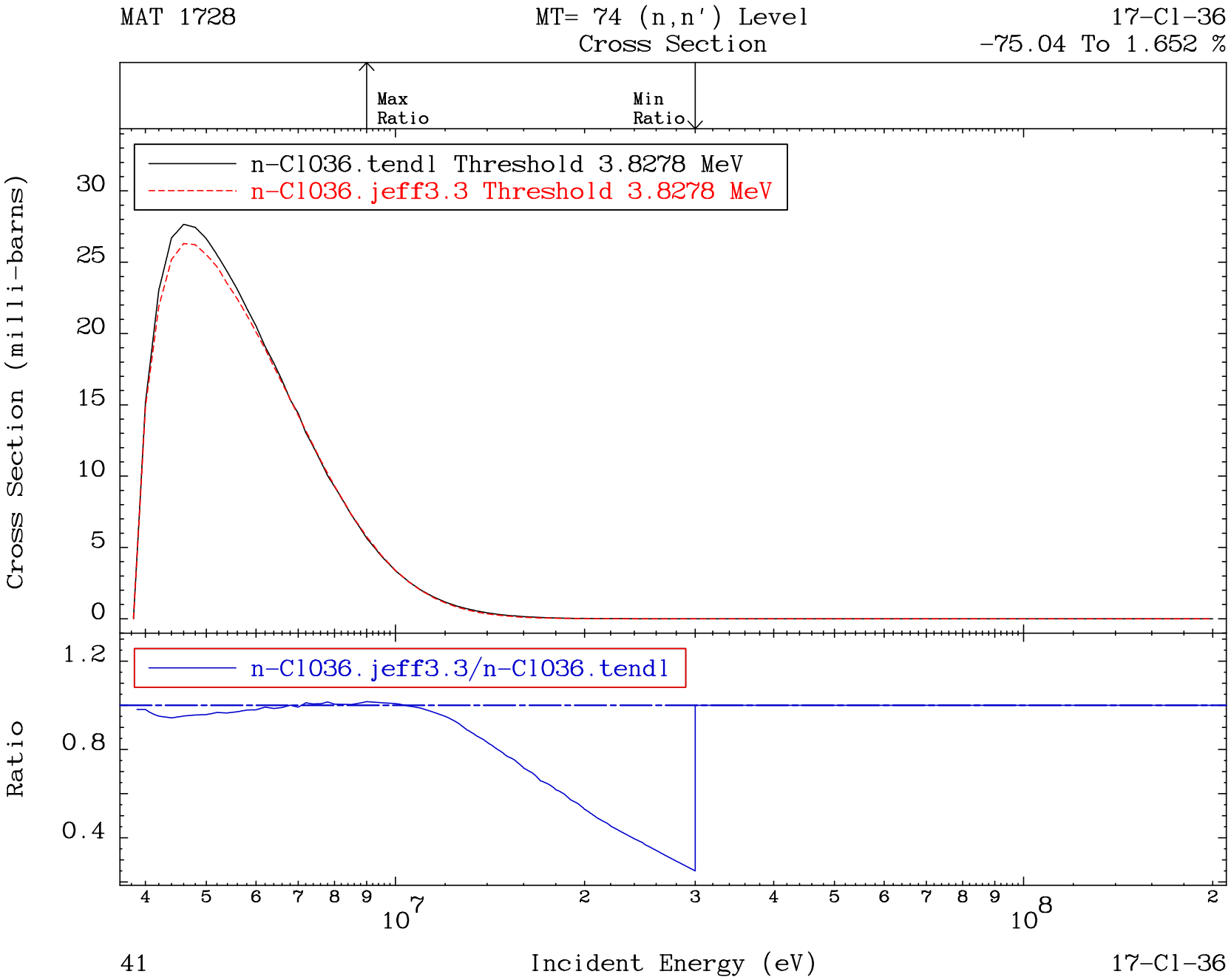

MAT 1728
MT= 69 (n,n') Level
Cross Section
17-Cl-36
-15.14 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 3.6660 MeV
n-Cl036.jeff3.3 Threshold 3.6660 MeV
Cross Section (milli-barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
36
17-Cl-36

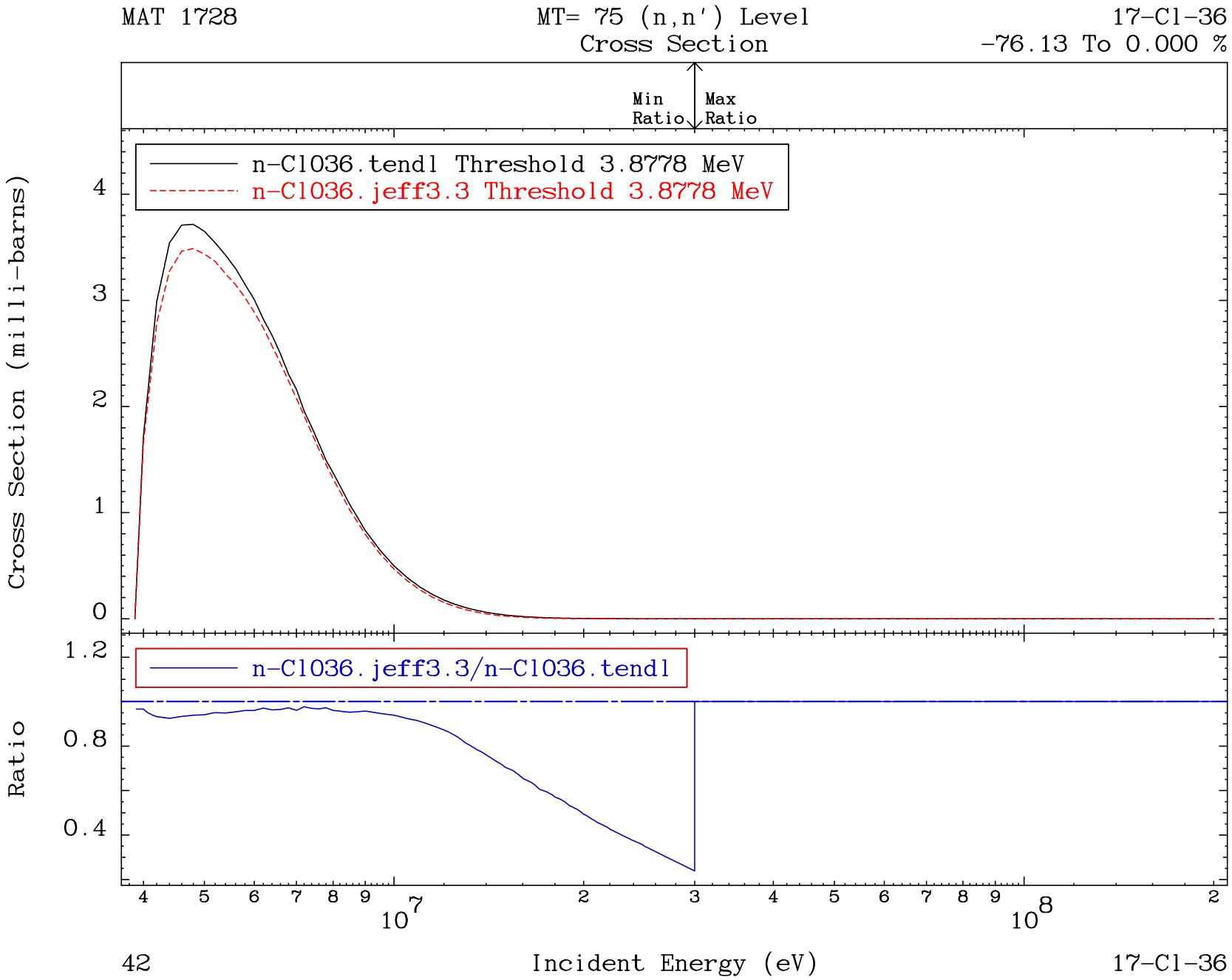

MAT 1728
MT= 70 (n,n') Level
Cross Section
17-Cl-36
-17.60 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 3.7005 MeV
n-Cl036.jeff3.3 Threshold 3.7005 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.00
0.90
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
17-Cl-36

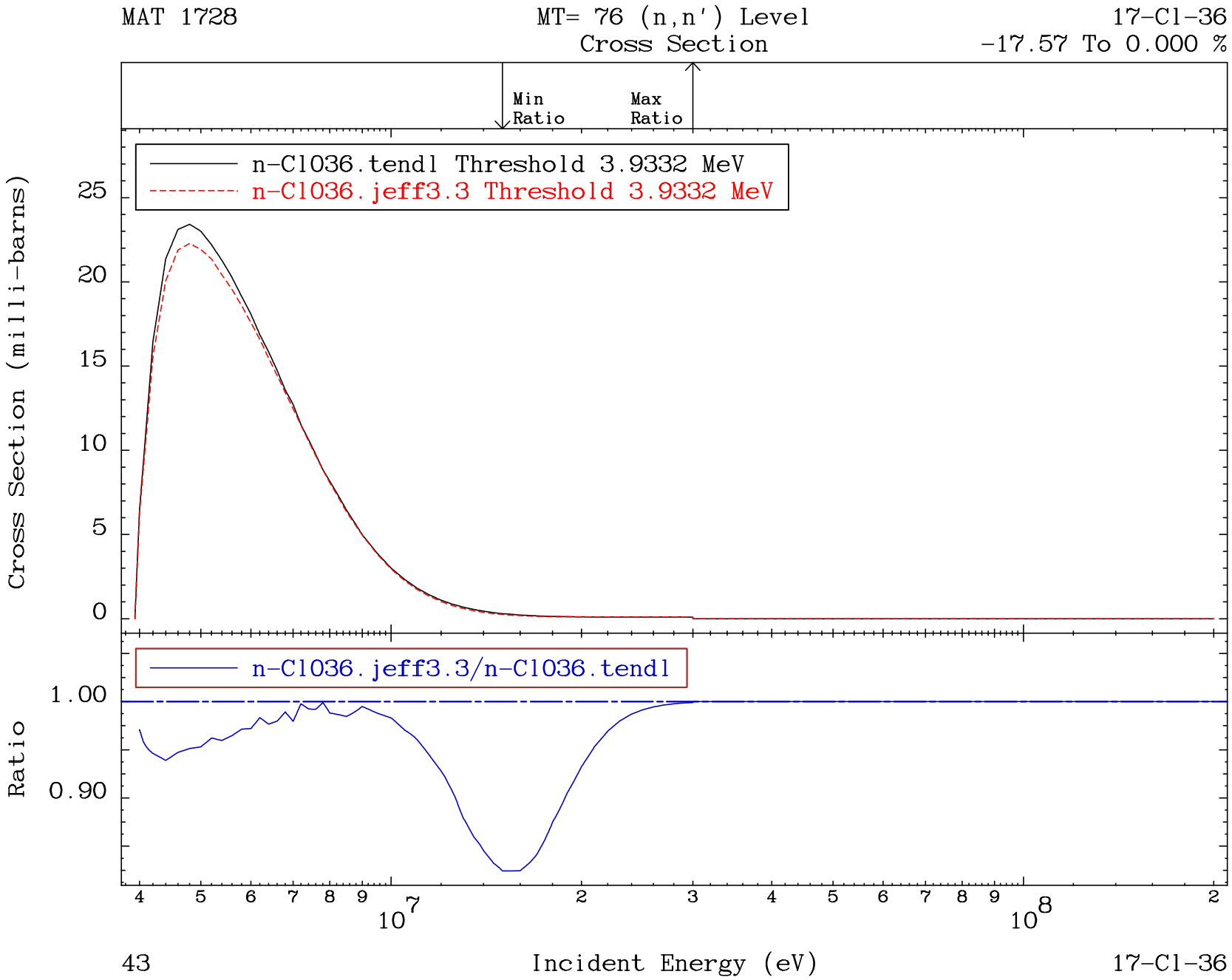

MAT 1728
MT= 71 (n,n') Level
Cross Section
17-Cl-36
-15.11 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 3.7369 MeV
n-Cl036.jeff3.3 Threshold 3.7369 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.00
0.95
0.90
0.85
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
17-Cl-36

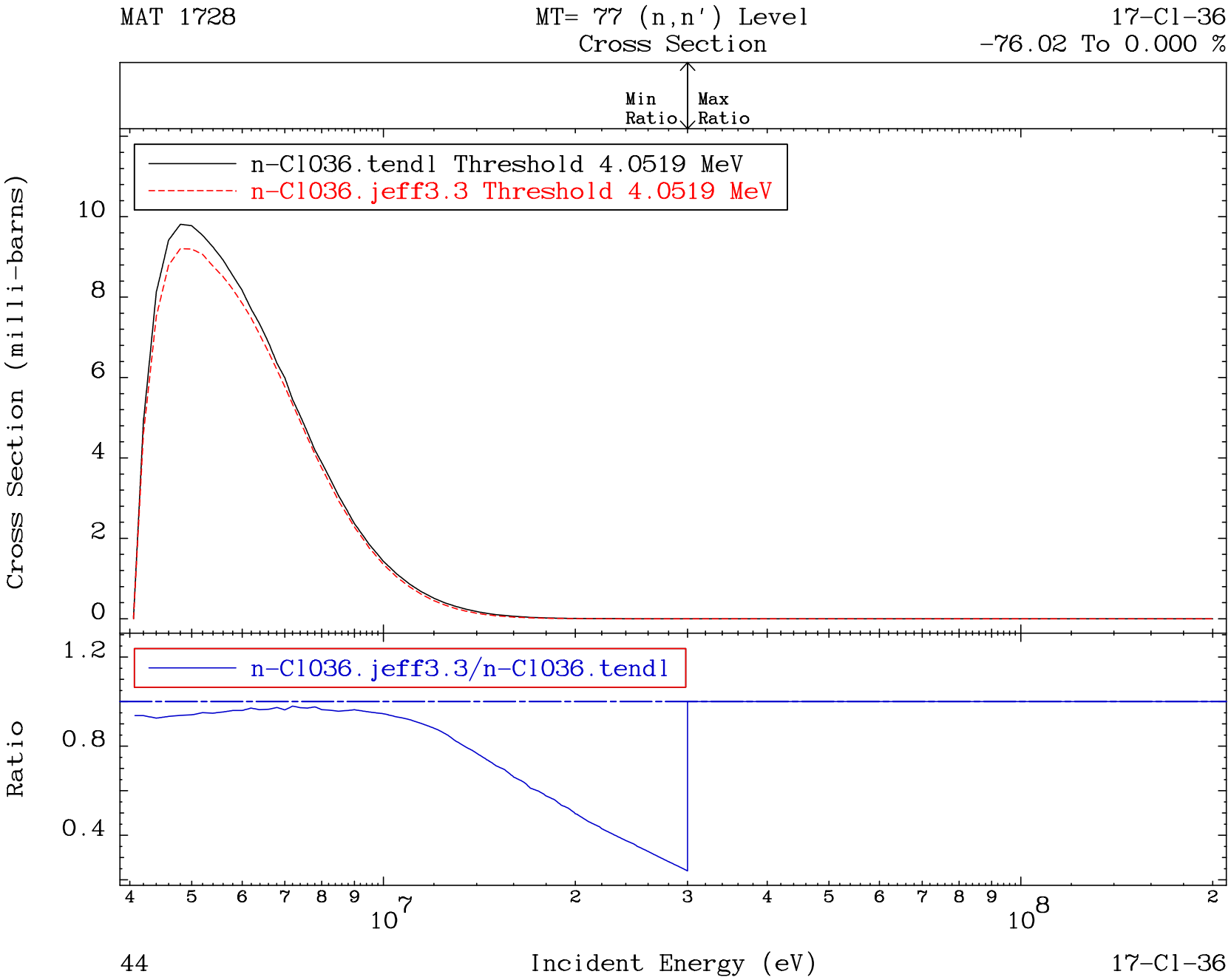

MAT 1728
MT= 72 (n,n') Level
Cross Section
17-Cl-36
-15.11 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 3.7630 MeV
n-Cl036.jeff3.3 Threshold 3.7630 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
0.85
0.90
0.95
1.00
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
17-Cl-36

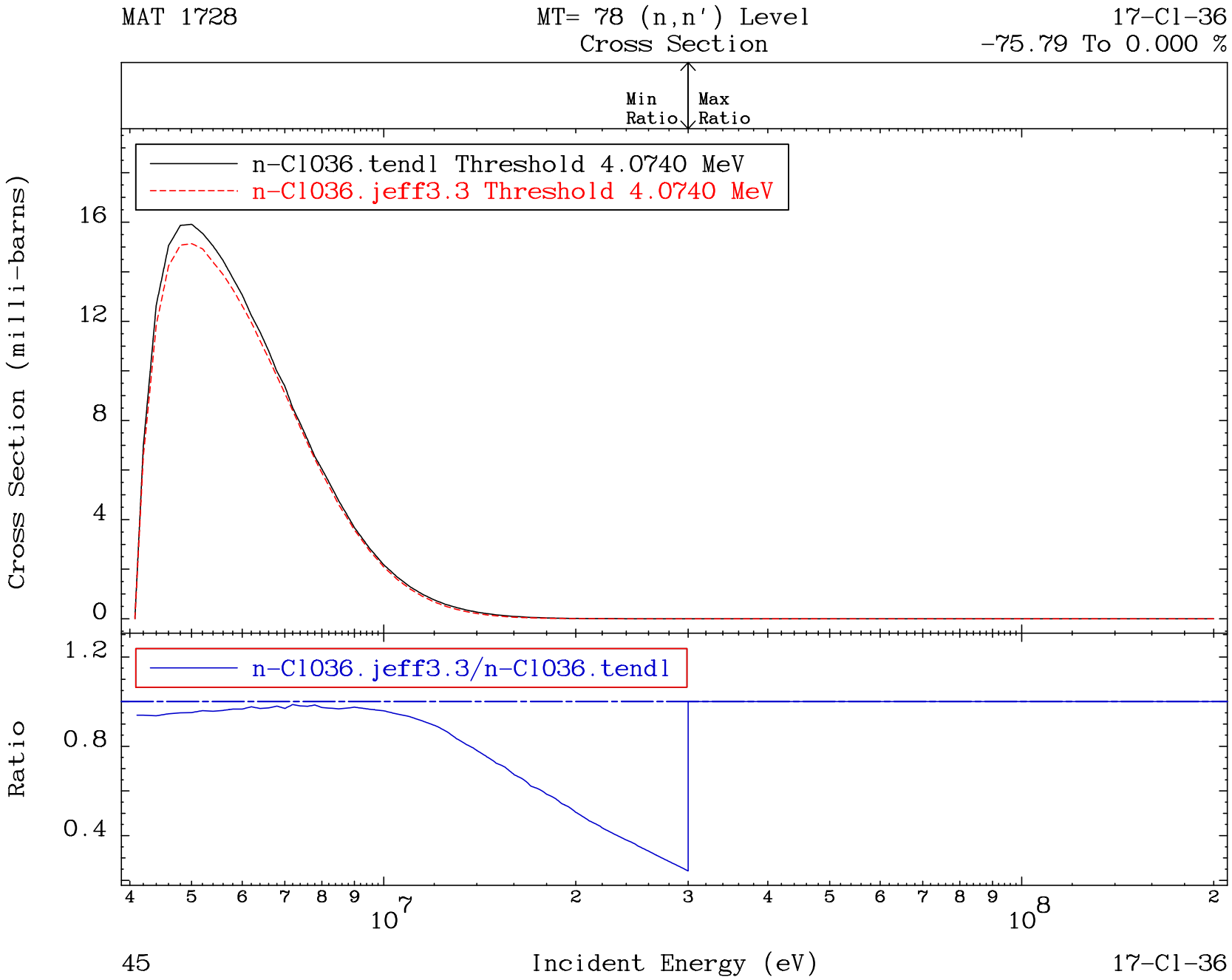

MAT 1728
MT= 73 (n,n') Level
Cross Section
17-Cl-36
-17.59 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 3.7955 MeV
n-Cl036.jeff3.3 Threshold 3.7955 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.00
0.90
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
40
17-Cl-36

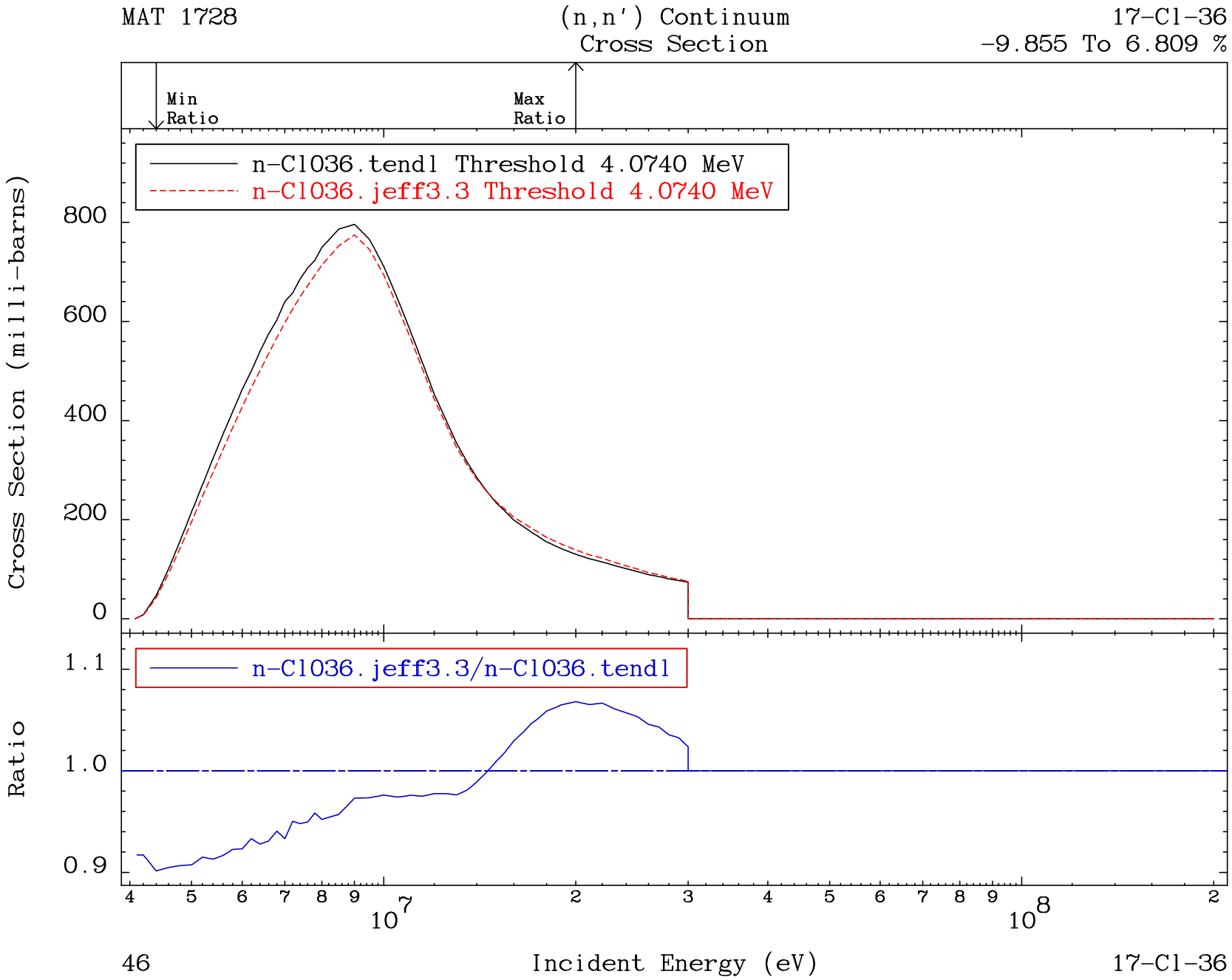

MAT 1728
MT= 74 (n,n') Level
Cross Section
17-Cl-36
-75.04 To 1.652 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 3.8278 MeV
n-Cl036.jeff3.3 Threshold 3.8278 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
17-Cl-36

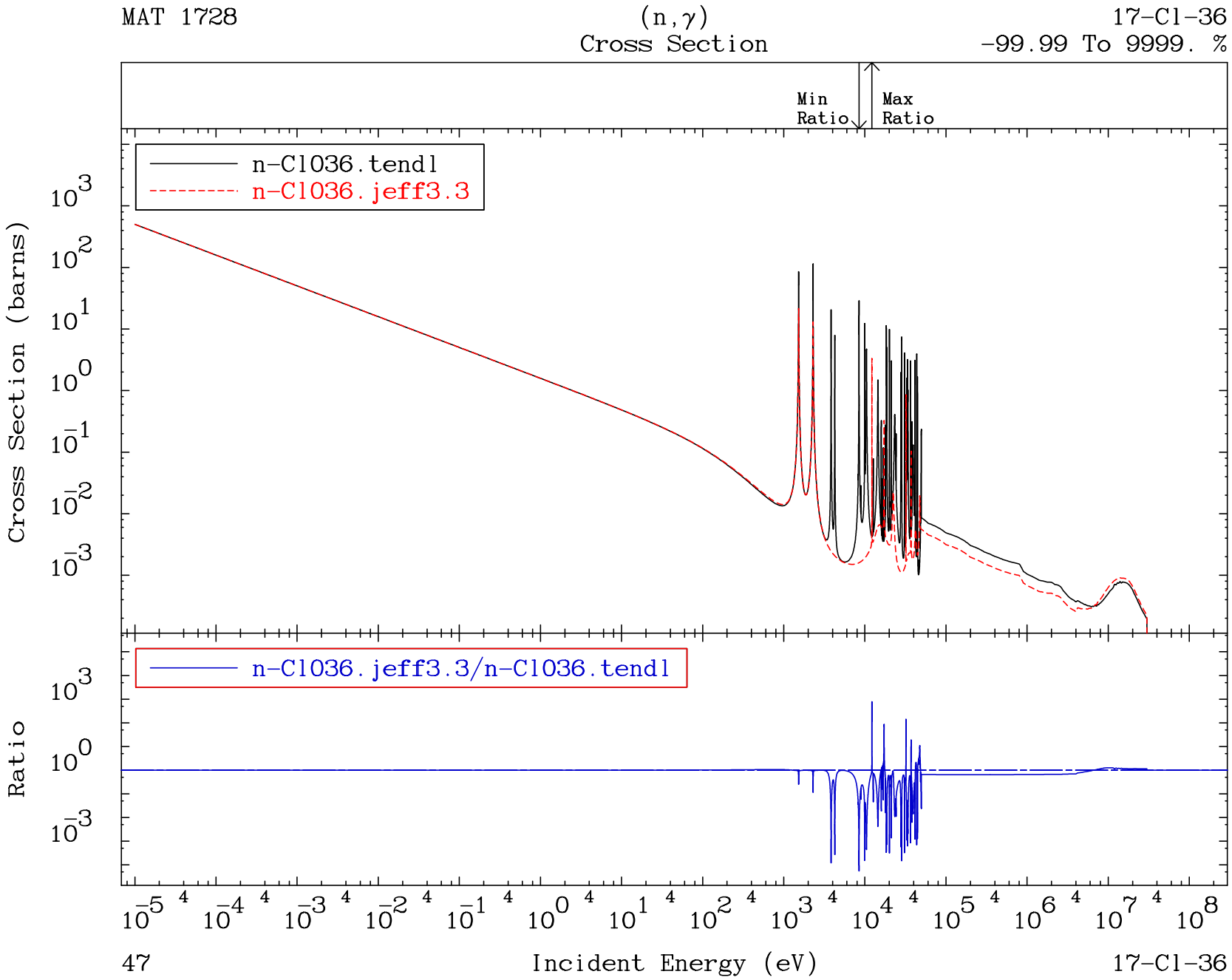

MAT 1728
MT= 75 (n,n') Level
Cross Section
17-Cl-36
-76.13 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 3.8778 MeV
n-Cl036.jeff3.3 Threshold 3.8778 MeV
Cross Section (milli-barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
42
17-Cl-36

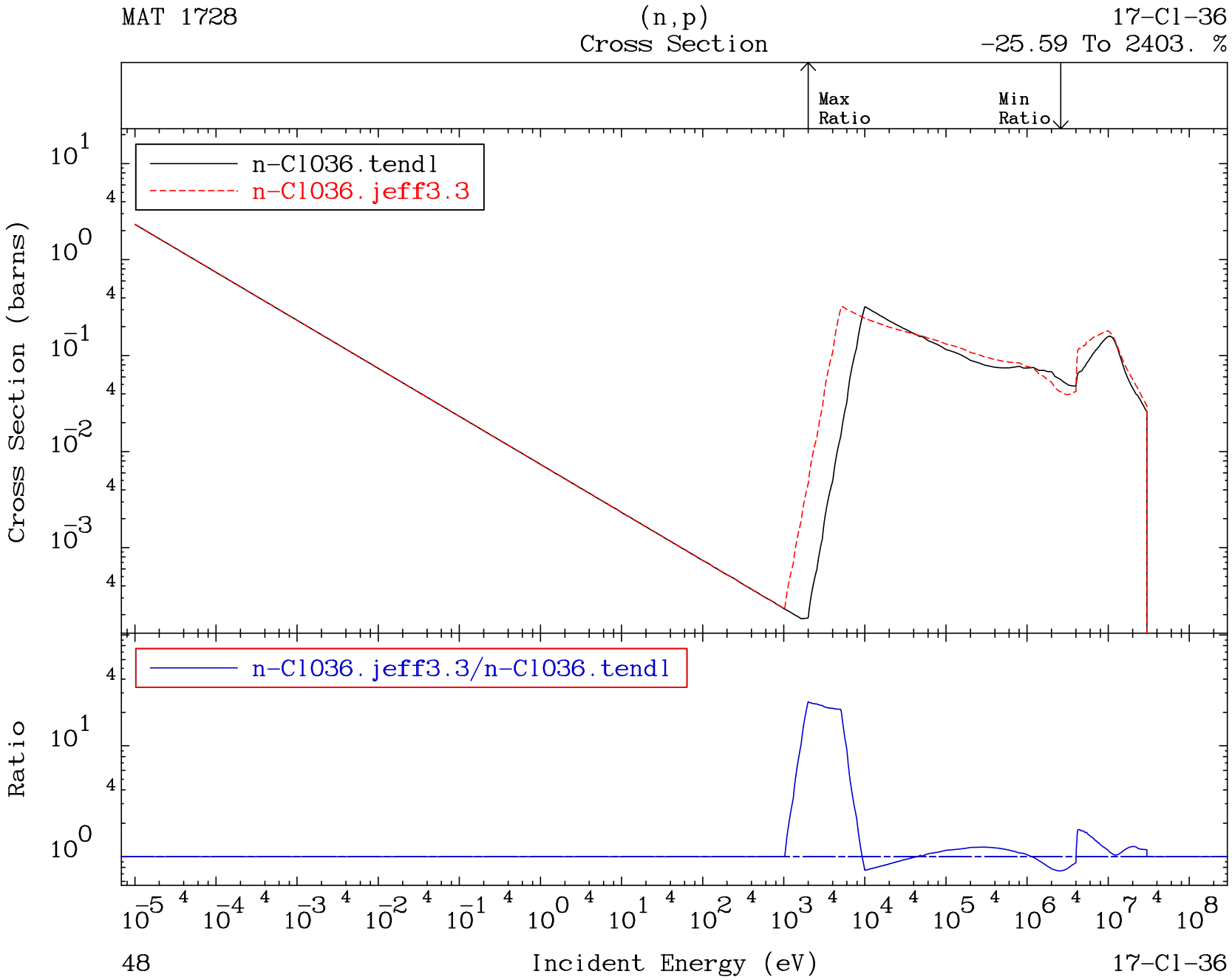

MAT 1728
MT= 76 (n,n') Level
Cross Section
17-Cl-36
-17.57 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 3.9332 MeV
n-Cl036.jeff3.3 Threshold 3.9332 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.00
0.90
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
17-Cl-36

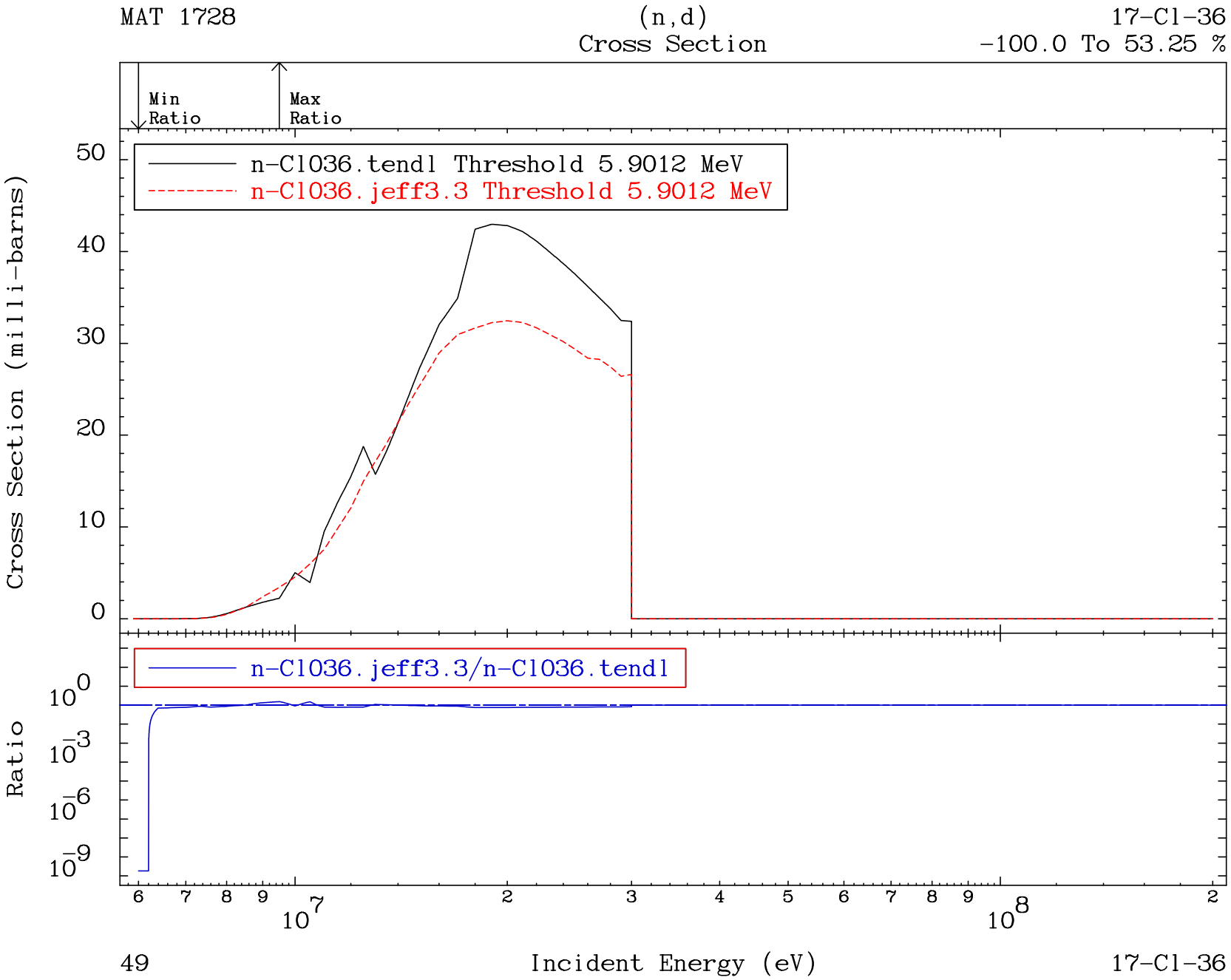

MAT 1728
MT= 77 (n,n') Level
Cross Section
17-Cl-36
-76.02 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 4.0519 MeV
n-Cl036.jeff3.3 Threshold 4.0519 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
17-Cl-36

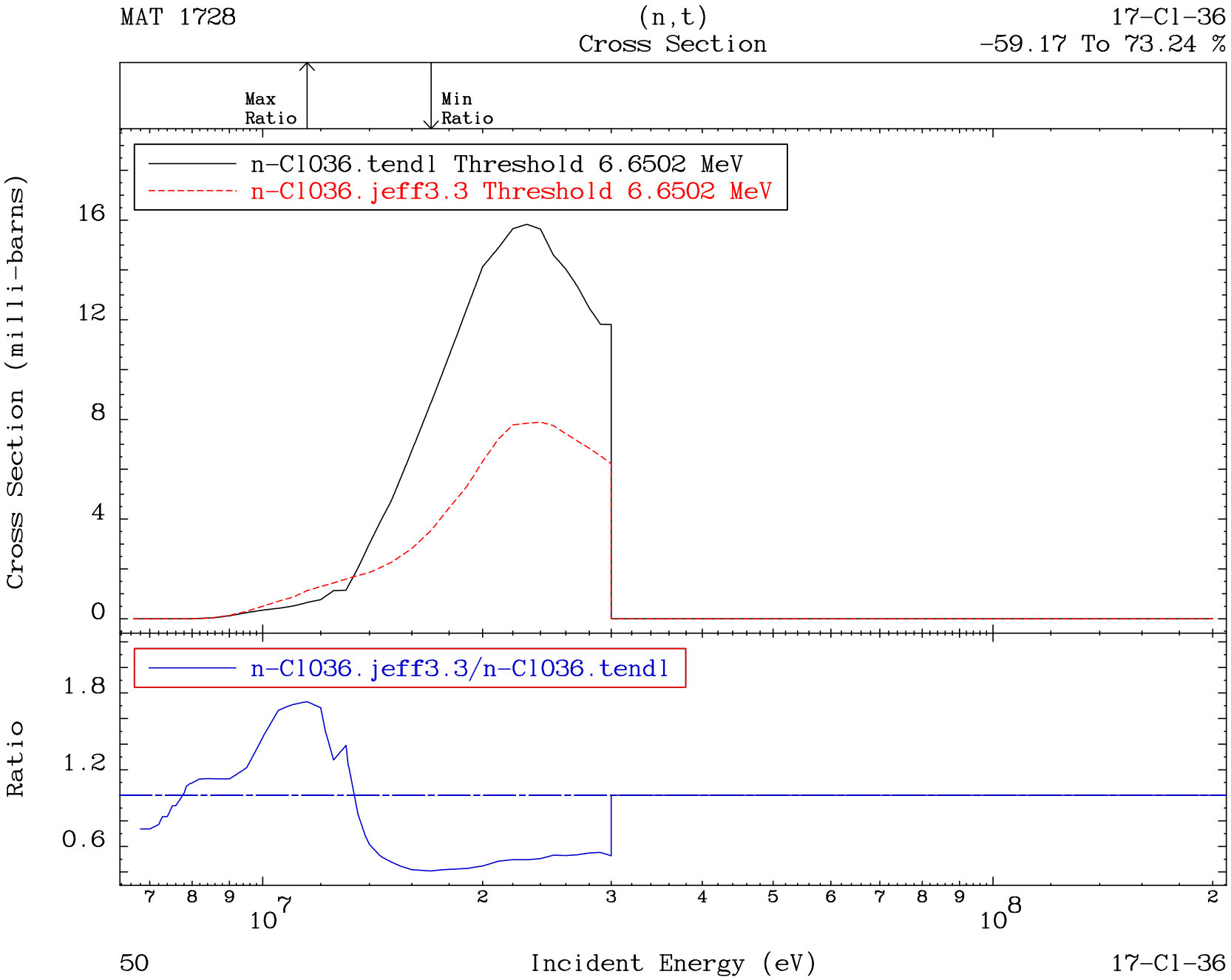

MAT 1728
MT= 78 (n,n') Level
Cross Section
17-Cl-36
-75.79 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 4.0740 MeV
n-Cl036.jeff3.3 Threshold 4.0740 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
17-Cl-36

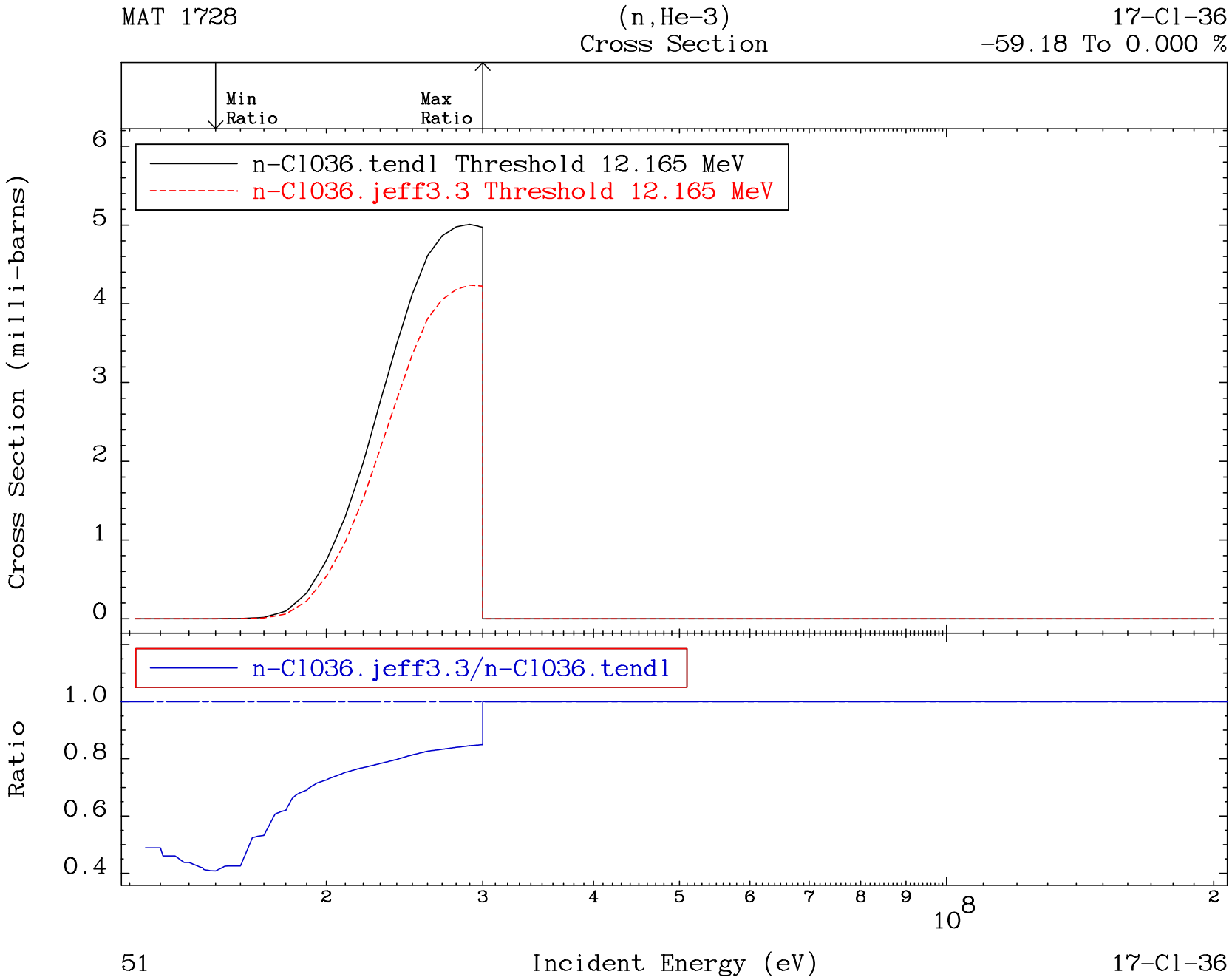

MAT 1728
(n,n') Continuum
Cross Section
17-Cl-36
-9.855 To 6.809 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 4.0740 MeV
n-Cl036.jeff3.3 Threshold 4.0740 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.1
1.0
0.9
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
17-Cl-36

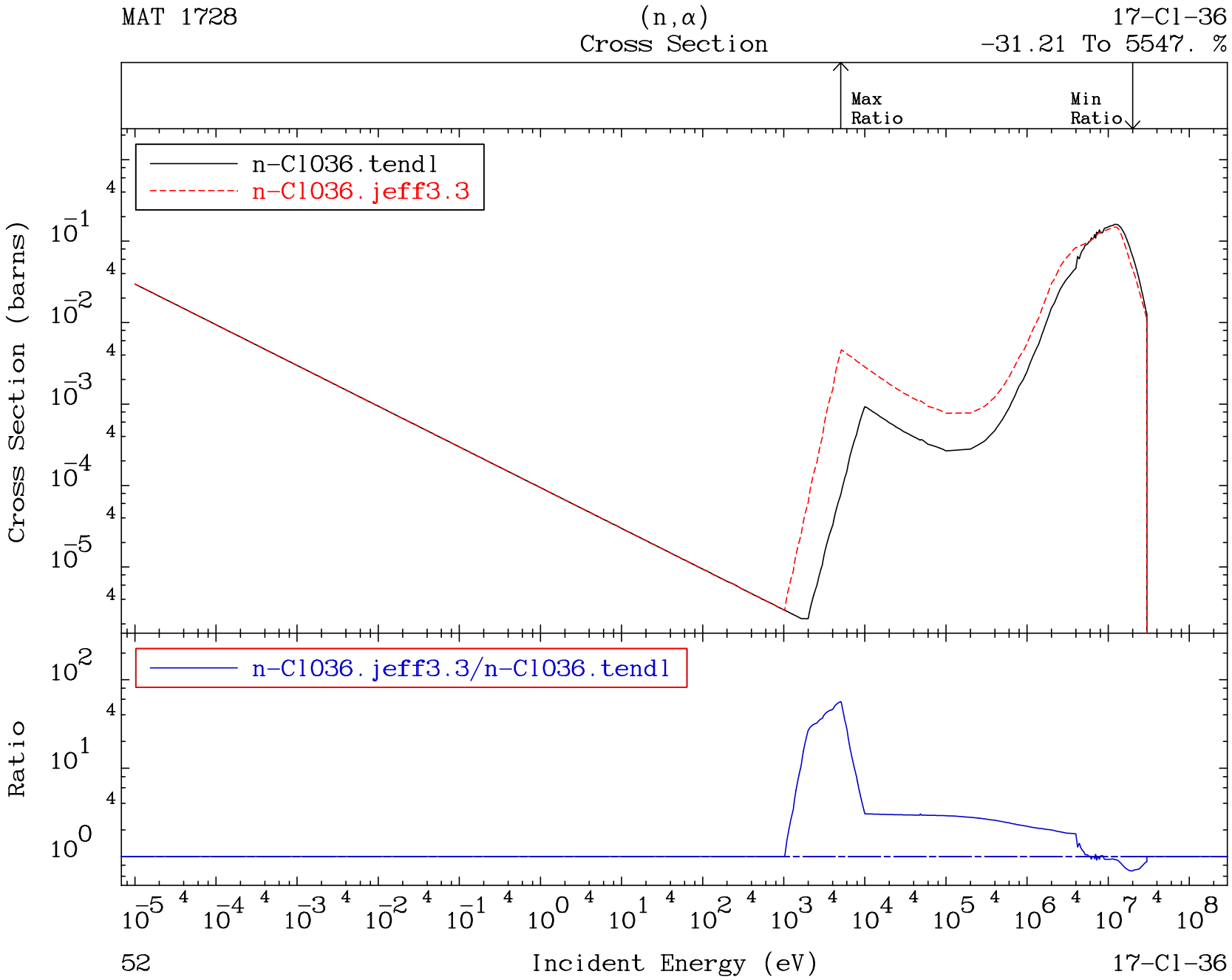

MAT 1728
(n,γ)
Cross Section
17-Cl-36
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
47
Incident Energy (eV)
17-Cl-36

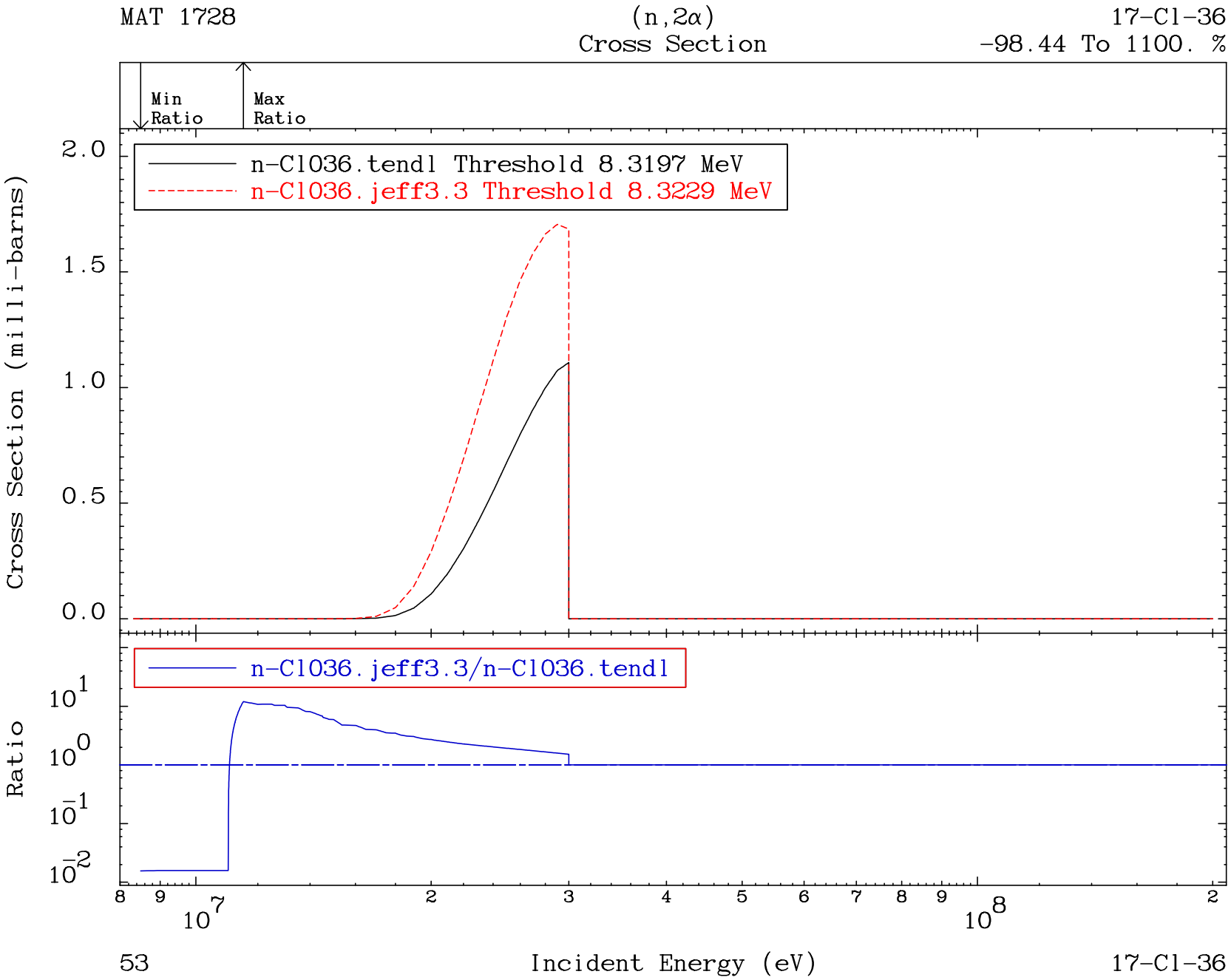

MAT 1728
(n,p)
Cross Section
17-Cl-36
-25.59 To 2403. %
Max Ratio
Min Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
48
17-Cl-36

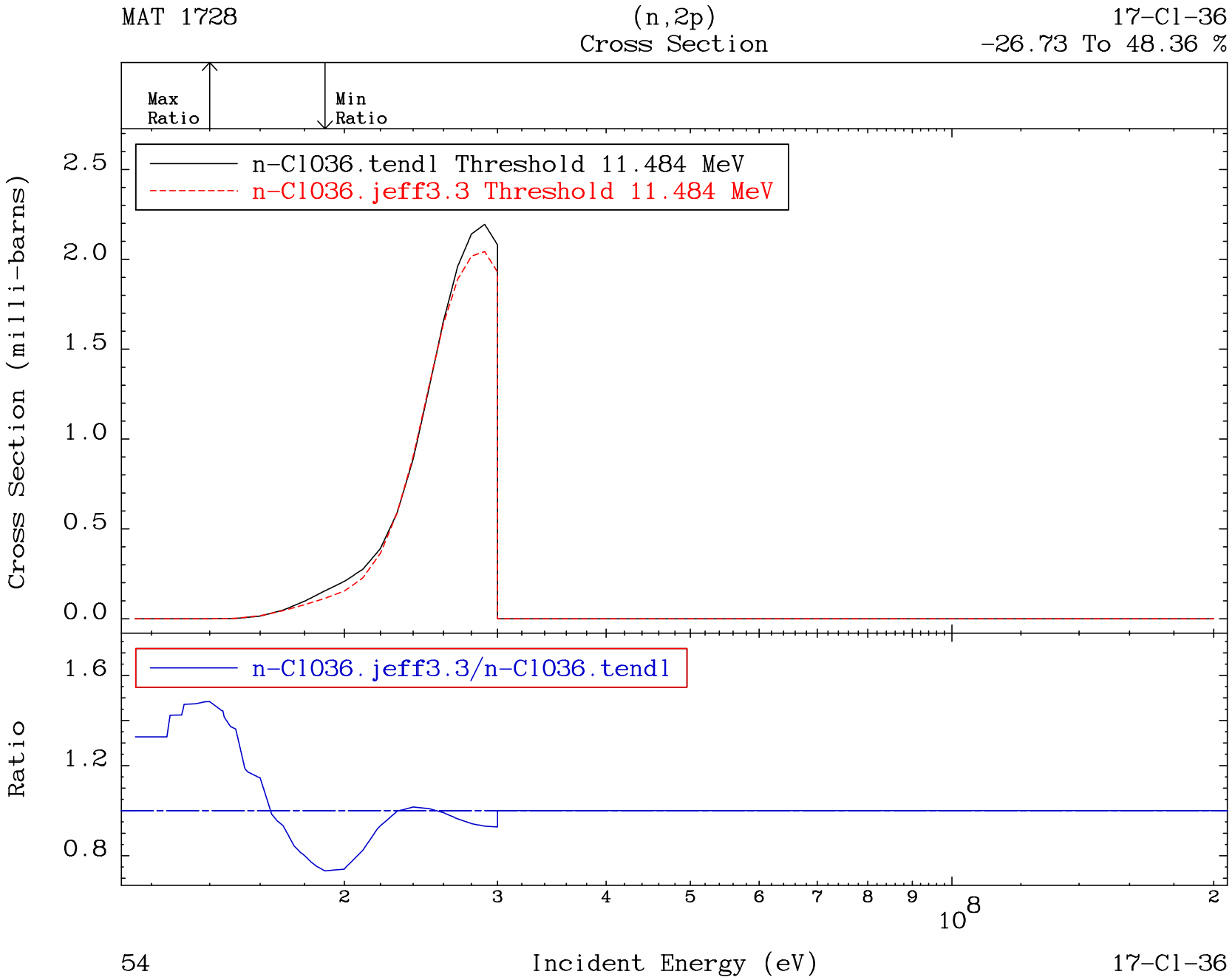

MAT 1728
(n,d)
Cross Section
17-Cl-36
-100.0 To 53.25 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 5.9012 MeV
n-Cl036.jeff3.3 Threshold 5.9012 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
10^0
10^-3
10^-6
10^-9
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
17-Cl-36

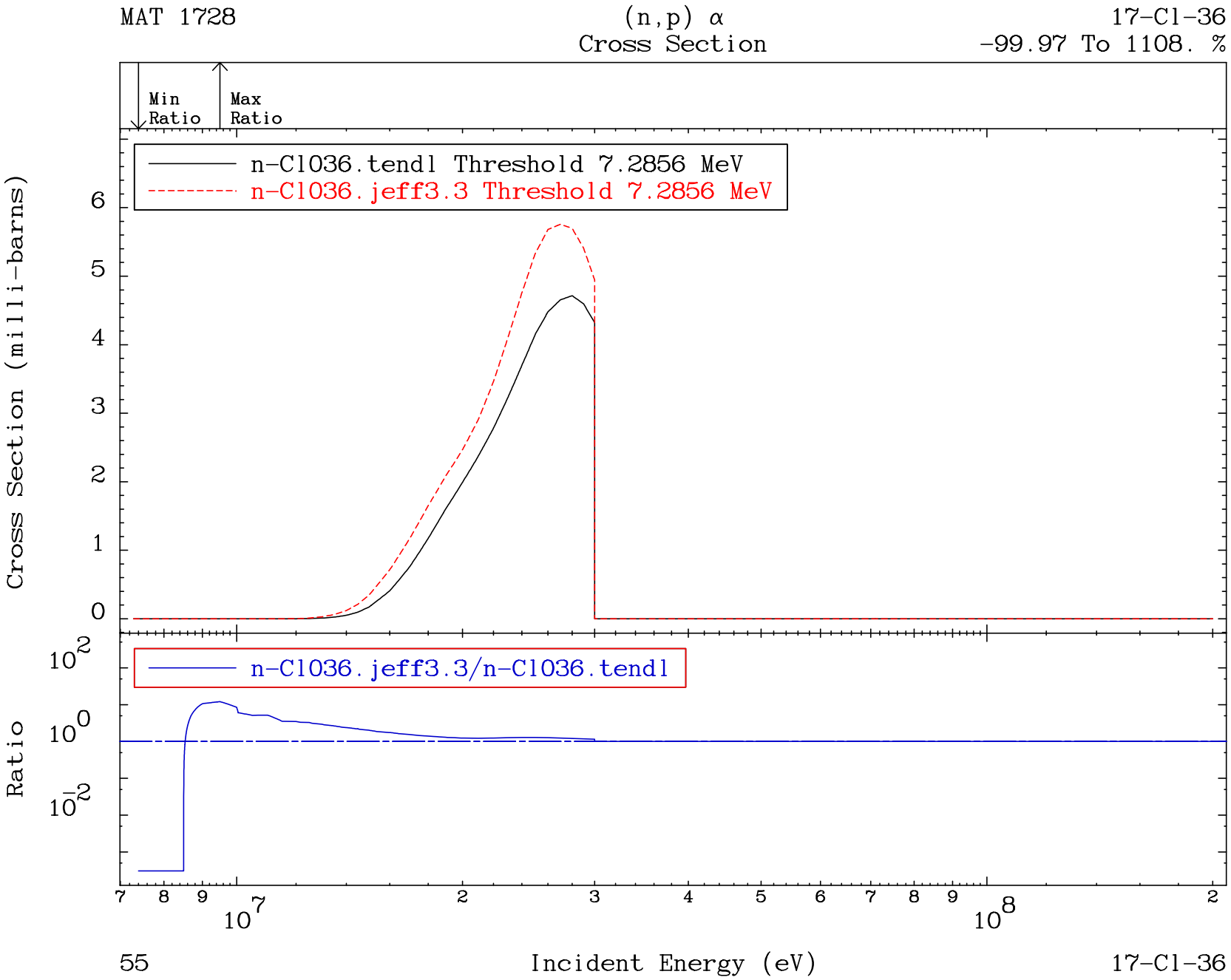

MAT 1728
(n,t)
Cross Section
17-Cl-36
-59.17 To 73.24 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 6.6502 MeV
n-Cl036.jeff3.3 Threshold 6.6502 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.8
1.2
0.6
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
50
Incident Energy (eV)
17-Cl-36

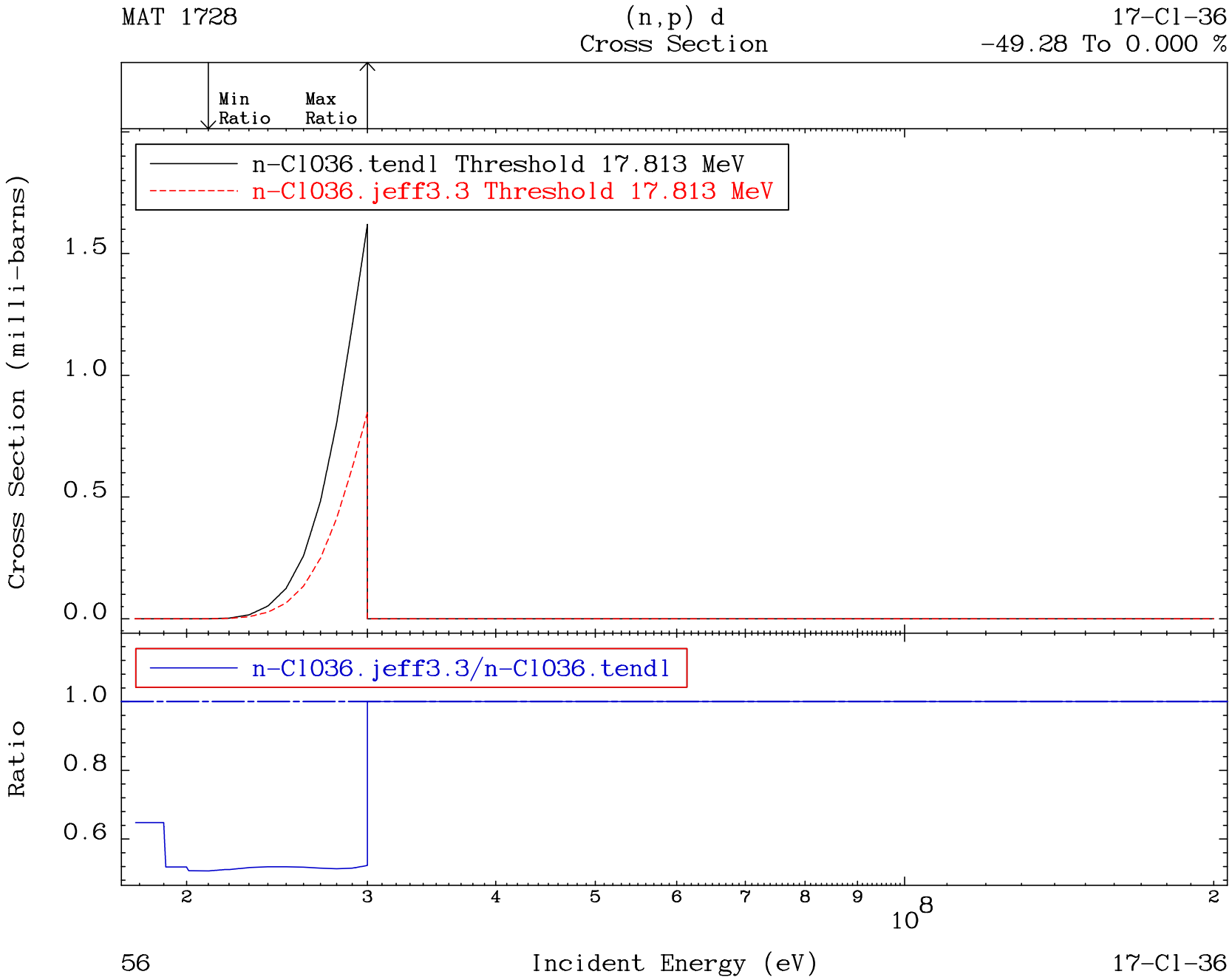

MAT 1728
(n,He-3)
Cross Section
17-Cl-36
-59.18 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 12.165 MeV
n-Cl036.jeff3.3 Threshold 12.165 MeV
Cross Section (milli-barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
51
17-Cl-36

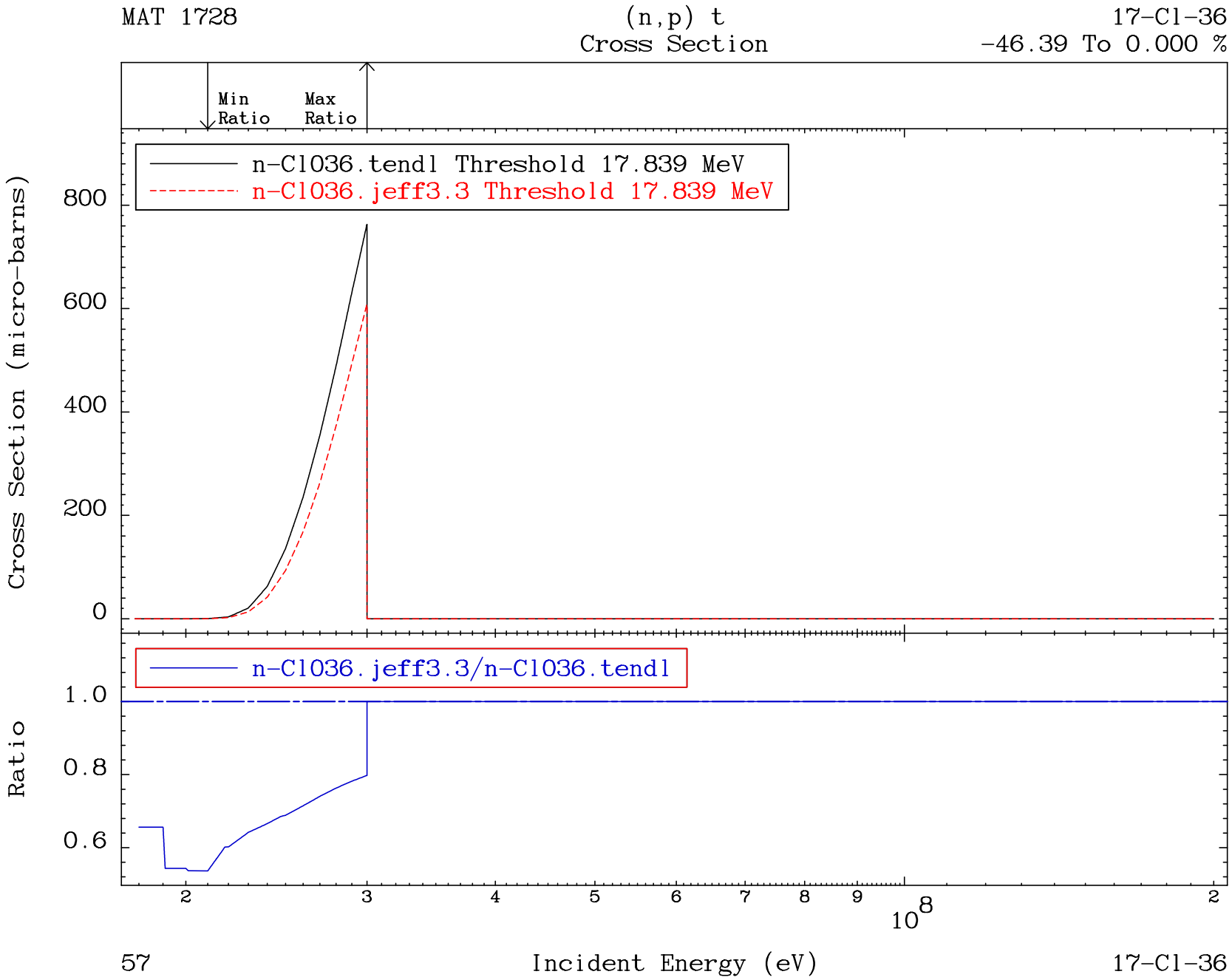

MAT 1728
(n,α)
Cross Section
17-Cl-36
-31.21 To 5547. %
Max Ratio
Min Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
52
17-Cl-36

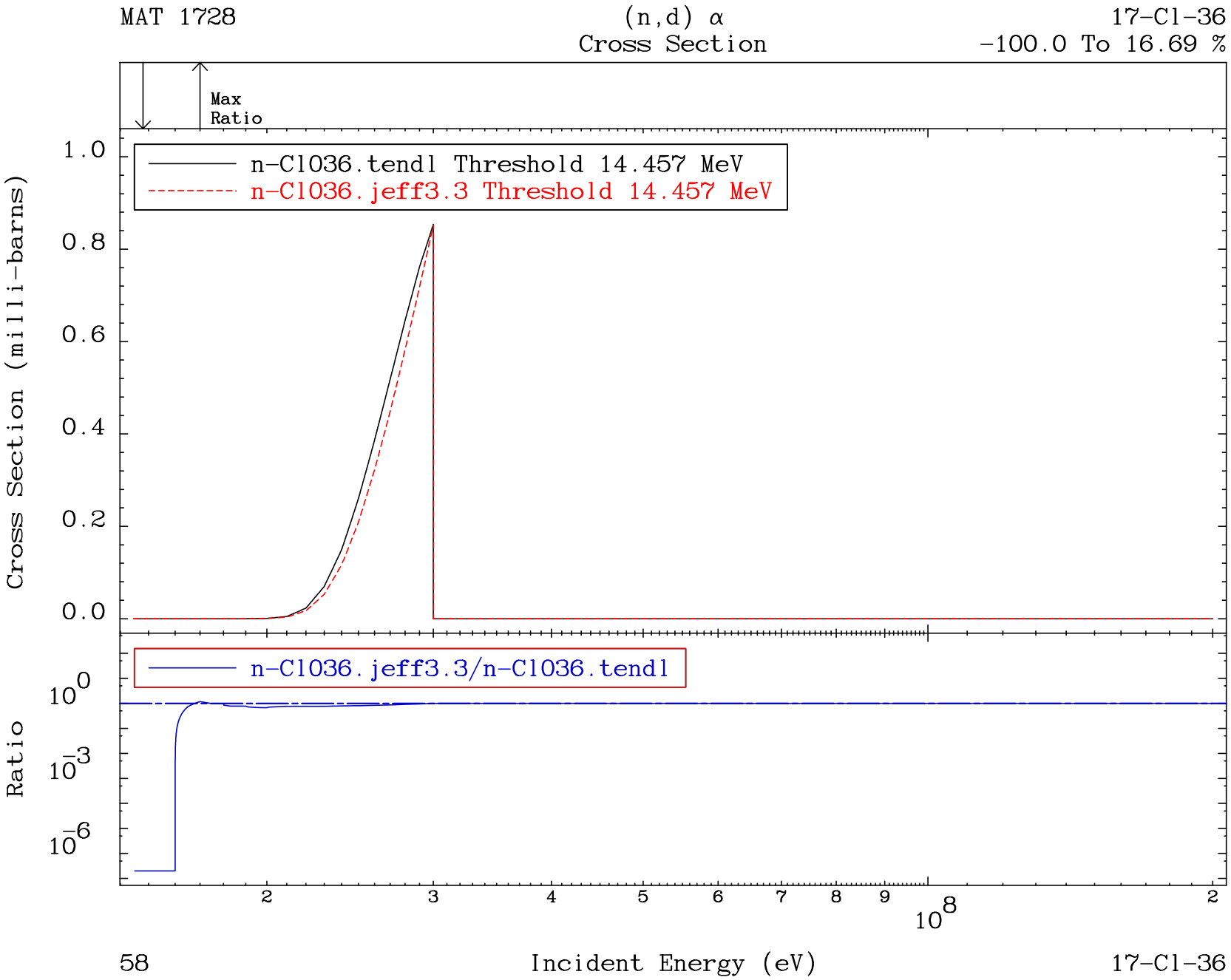

MAT 1728
(n,2α)
Cross Section
17-Cl-36
-98.44 To 1100. %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 8.3197 MeV
n-Cl036.jeff3.3 Threshold 8.3229 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
10^1
10^0
10^-1
10^-2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
17-Cl-36

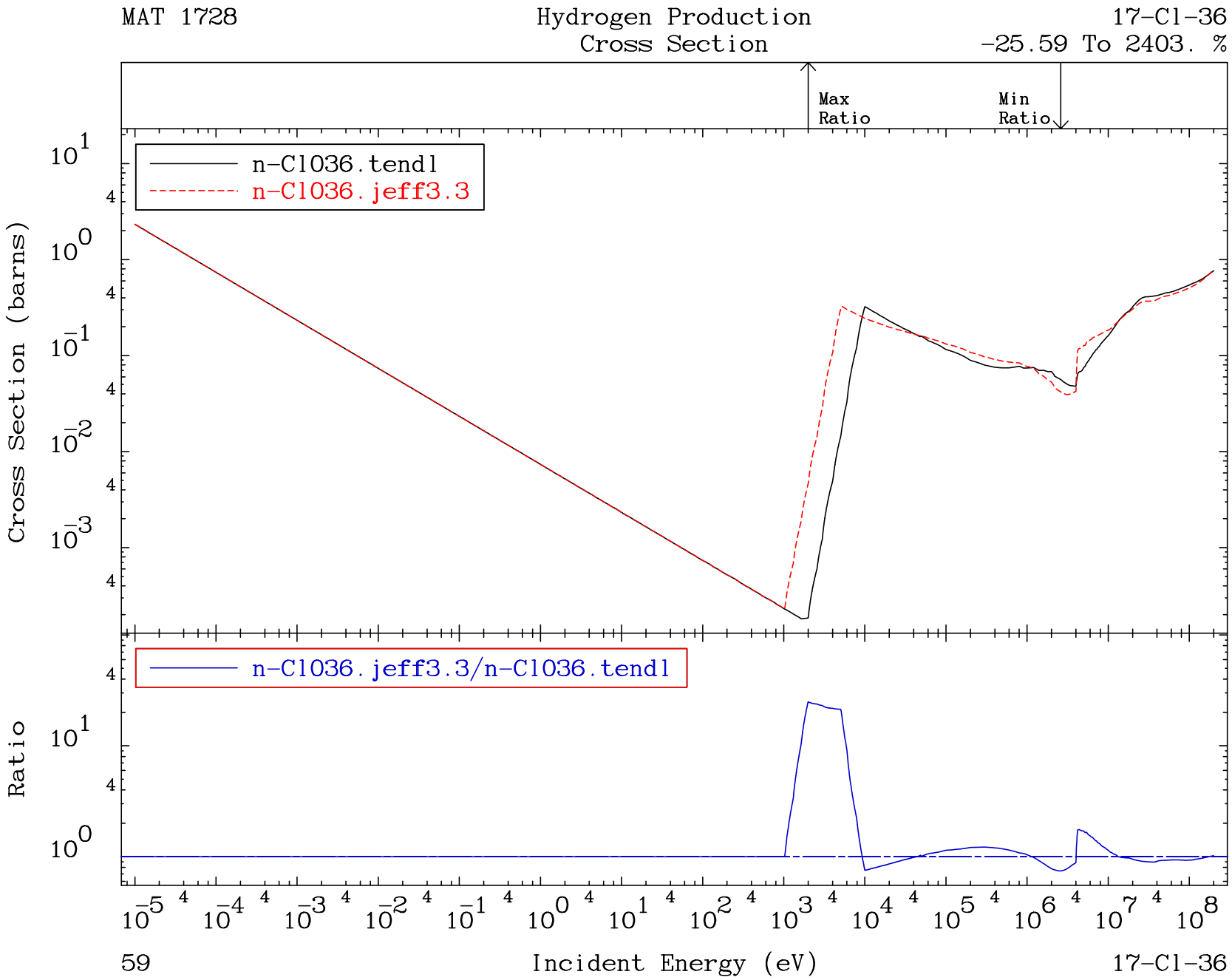

MAT 1728
(n,2p)
Cross Section
17-Cl-36
-26.73 To 48.36 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 11.484 MeV
n-Cl036.jeff3.3 Threshold 11.484 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.6
1.2
0.8
2
3
4
5
6
7
8
9
2
10^8
54
Incident Energy (eV)
17-Cl-36

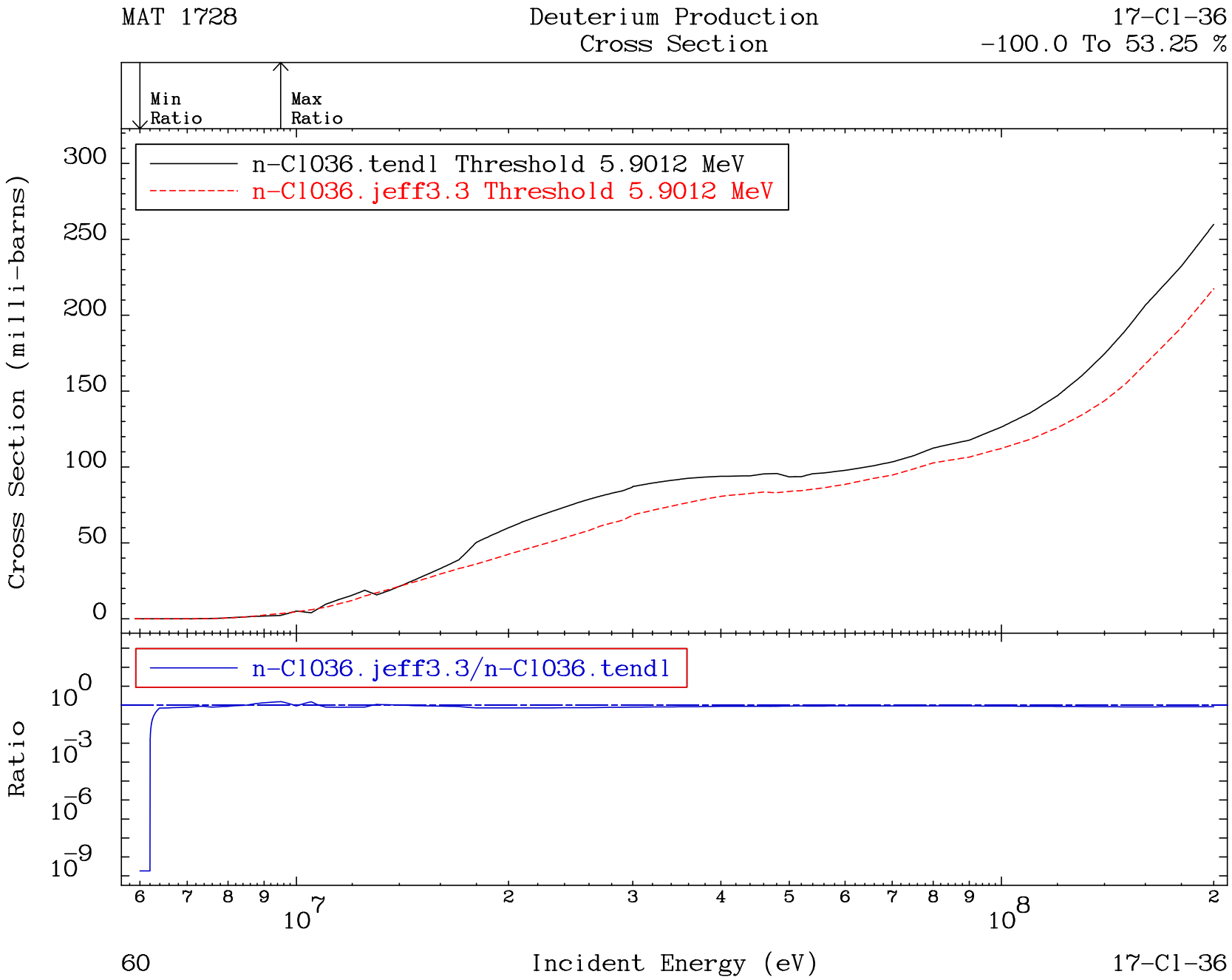

MAT 1728
(n,p) α
Cross Section
17-Cl-36
-99.97 To 1108. %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 7.2856 MeV
n-Cl036.jeff3.3 Threshold 7.2856 MeV
Cross Section (milli-barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
55
17-Cl-36

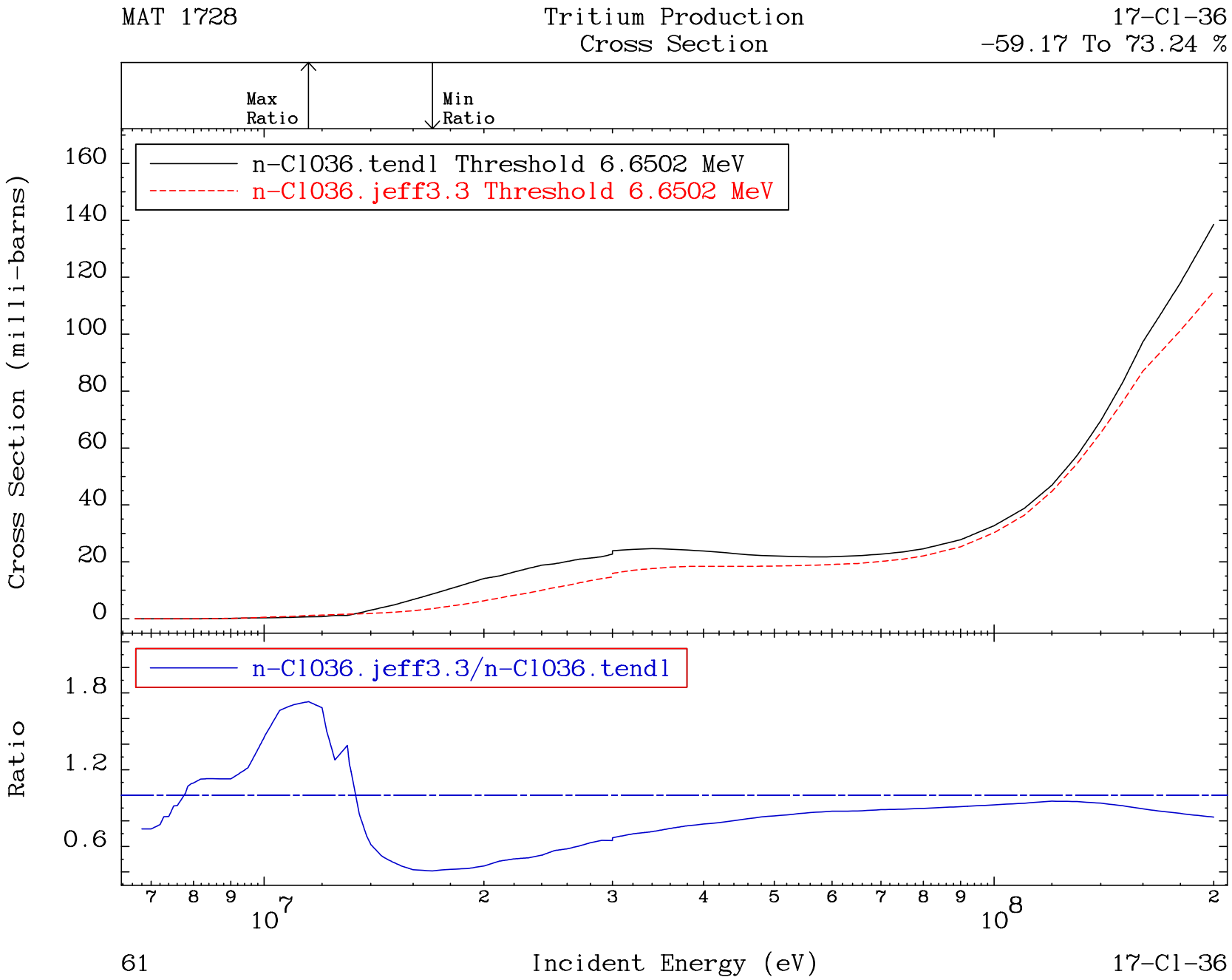

MAT 1728
(n,p) d
Cross Section
17-Cl-36
-49.28 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 17.813 MeV
n-Cl036.jeff3.3 Threshold 17.813 MeV
Cross Section (milli-barns)
1.5
1.0
0.5
0.0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
17-Cl-36

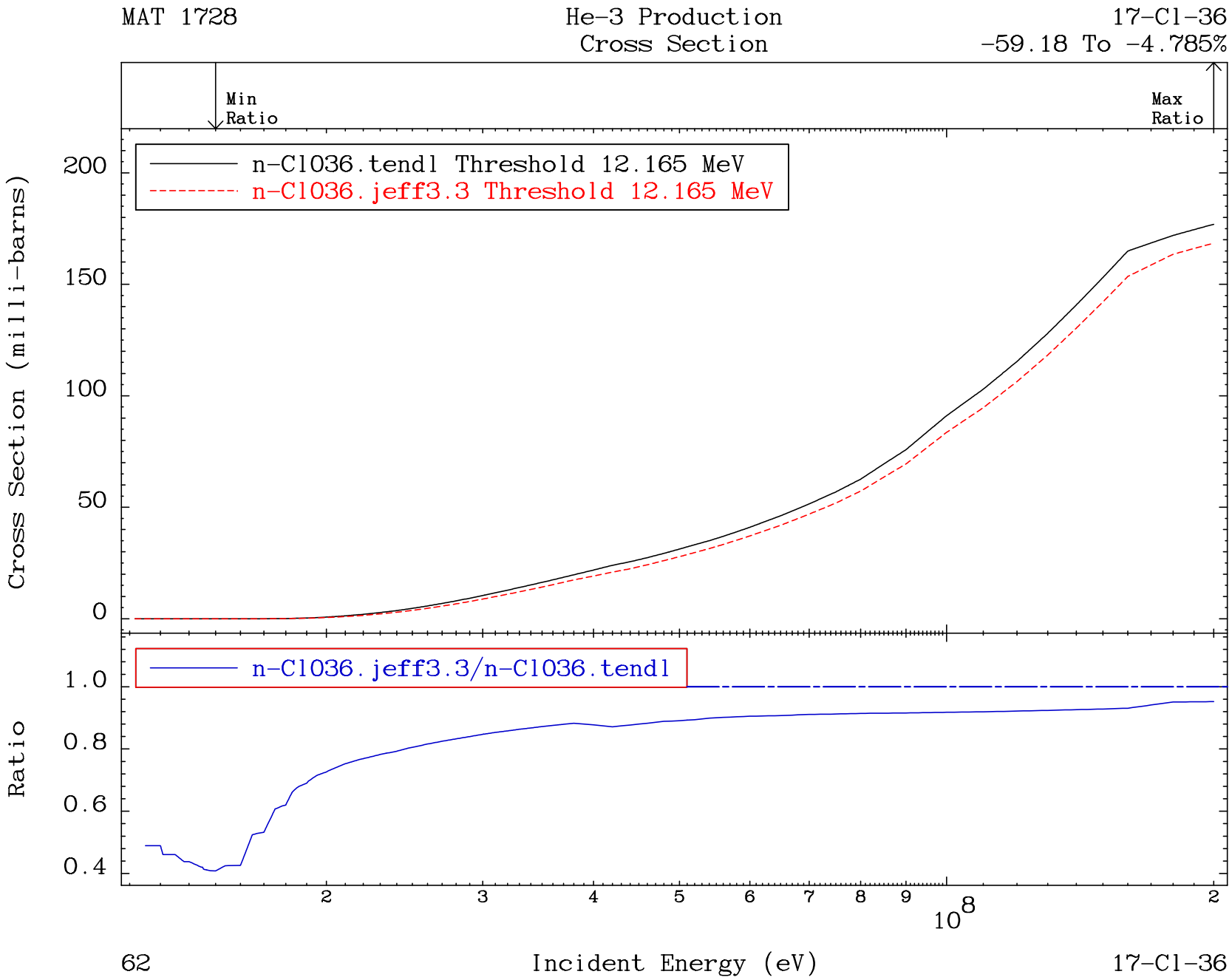

MAT 1728
(n,p) t
Cross Section
17-Cl-36
-46.39 To 0.000 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 17.839 MeV
n-Cl036.jeff3.3 Threshold 17.839 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
17-Cl-36

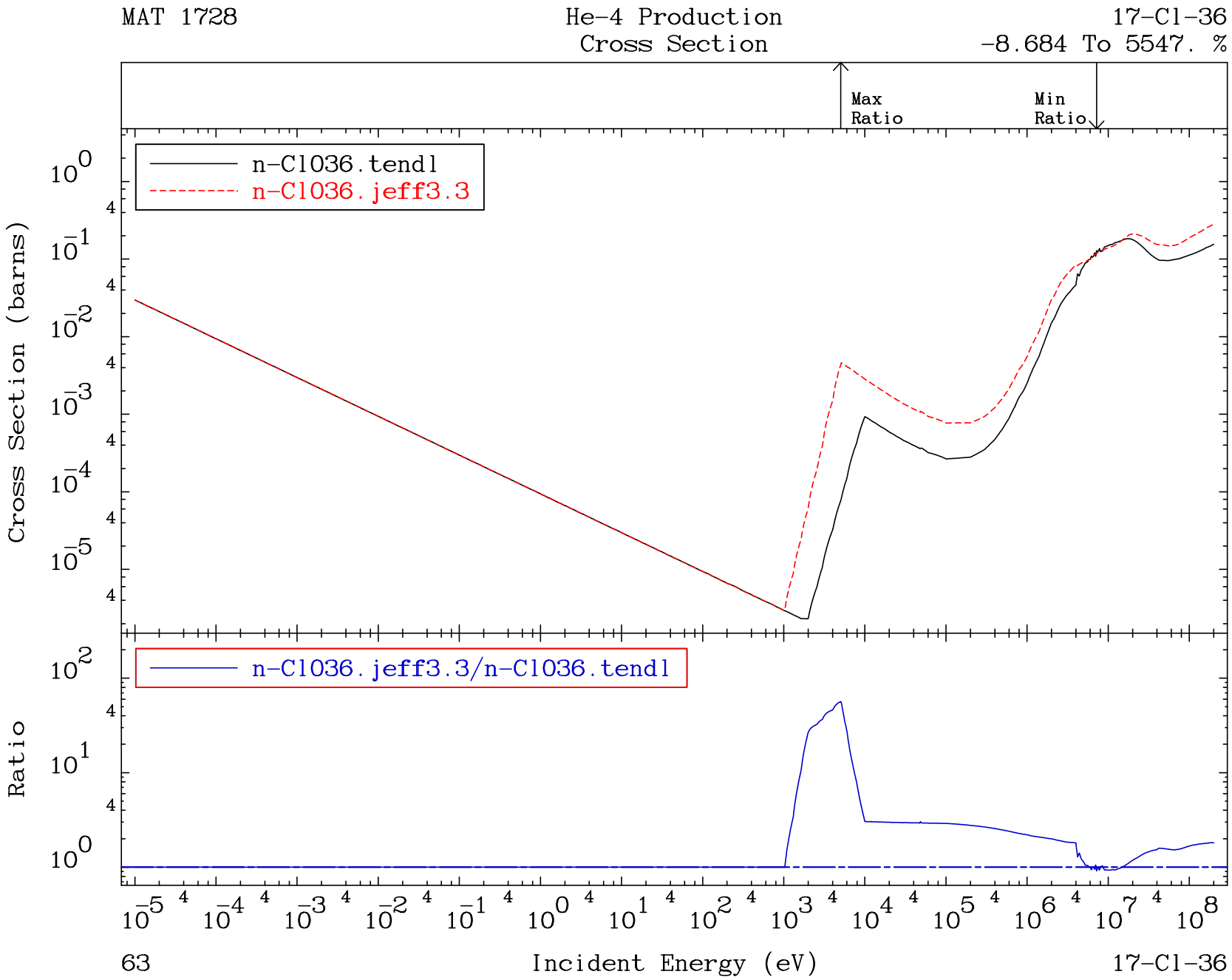

MAT 1728
(n,d) α
Cross Section
17-Cl-36
-100.0 To 16.69 %
Max
Ratio
n-Cl036.tendl Threshold 14.457 MeV
n-Cl036.jeff3.3 Threshold 14.457 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
17-Cl-36

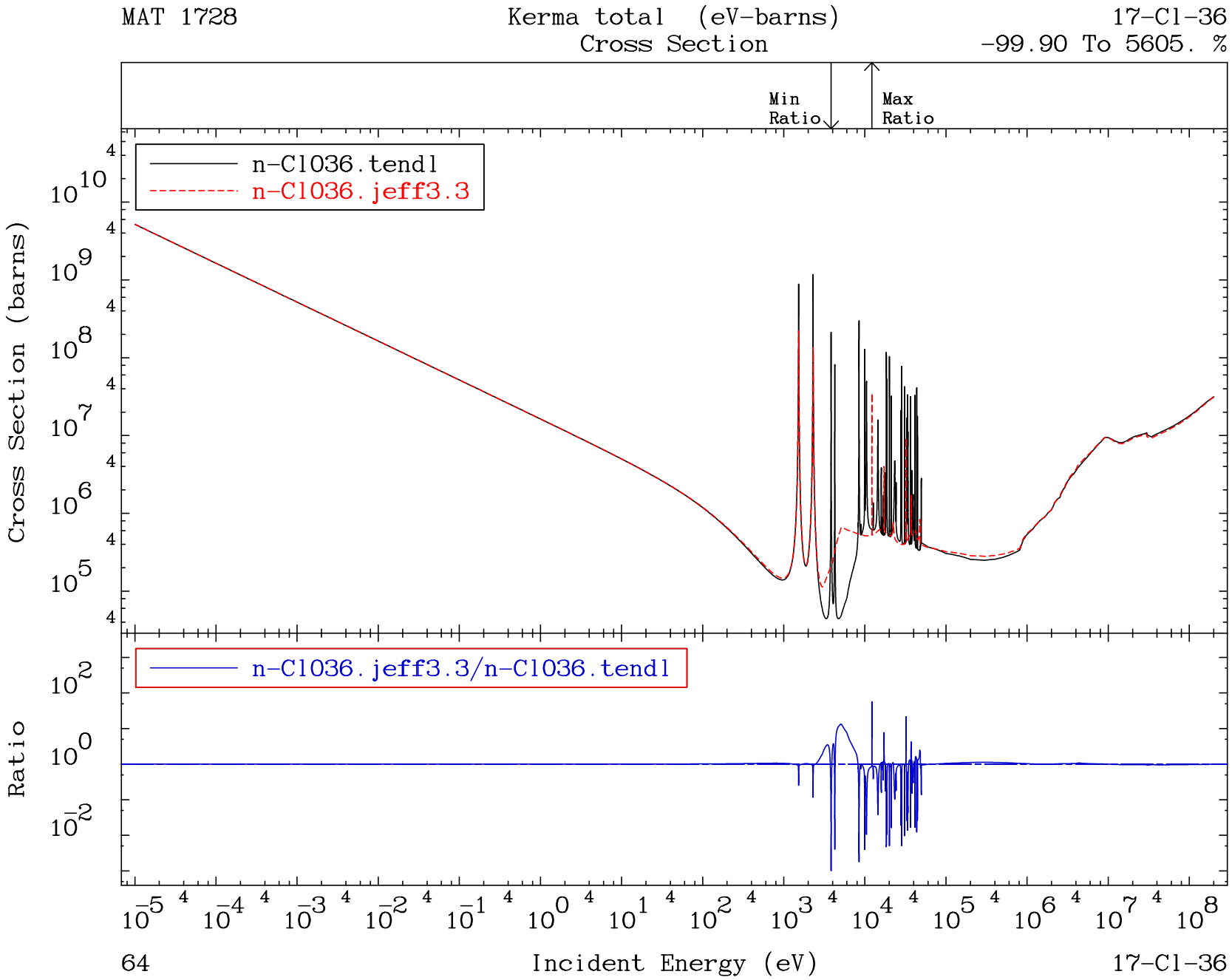

MAT 1728
Hydrogen Production
Cross Section
17-Cl-36
-25.59 To 2403. %
Max Ratio
Min Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
59
17-Cl-36

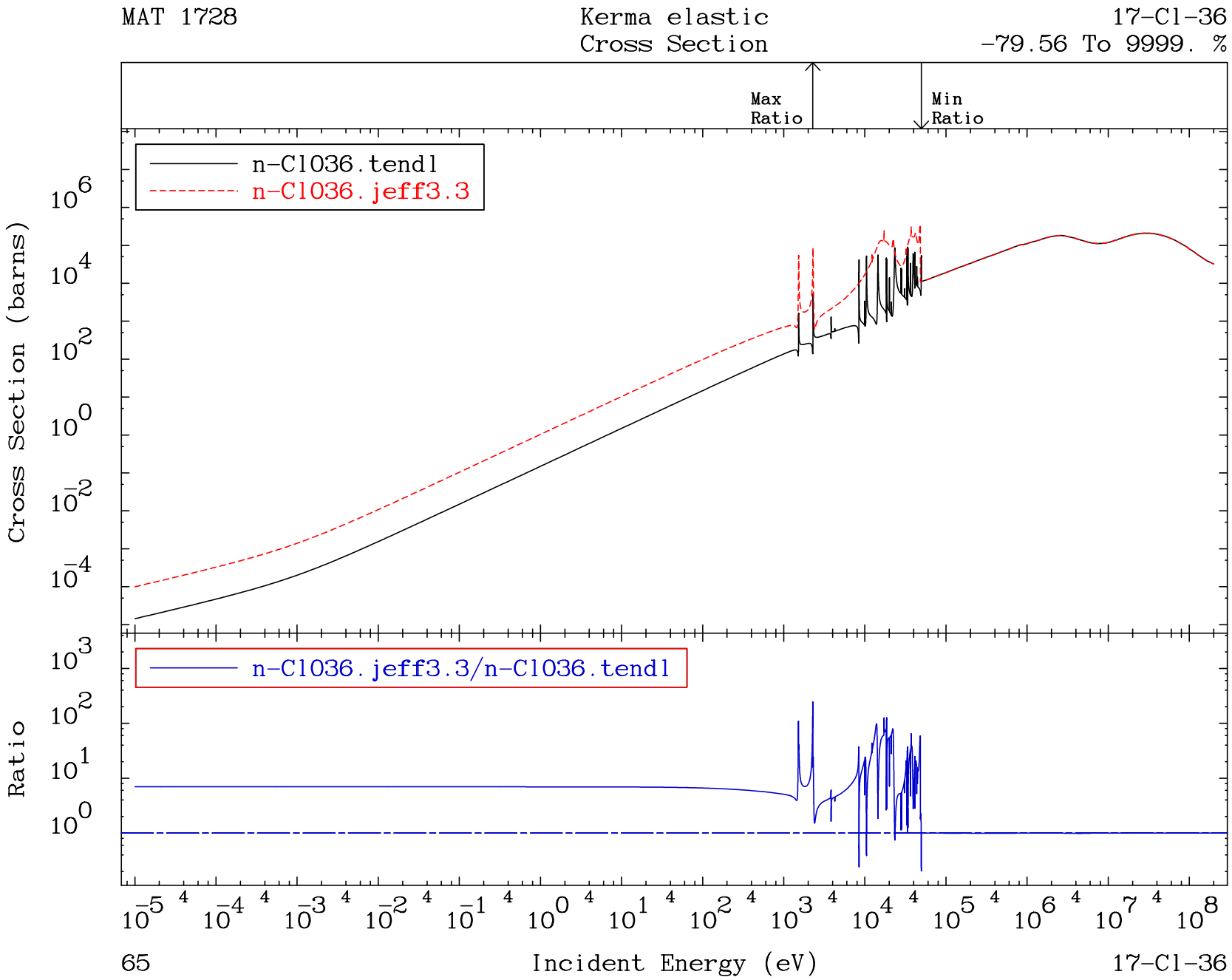

MAT 1728
Deuterium Production
Cross Section
17-Cl-36
-100.0 To 53.25 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 5.9012 MeV
n-Cl036.jeff3.3 Threshold 5.9012 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
10^0
10^-3
10^-6
10^-9
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
60
Incident Energy (eV)
17-Cl-36

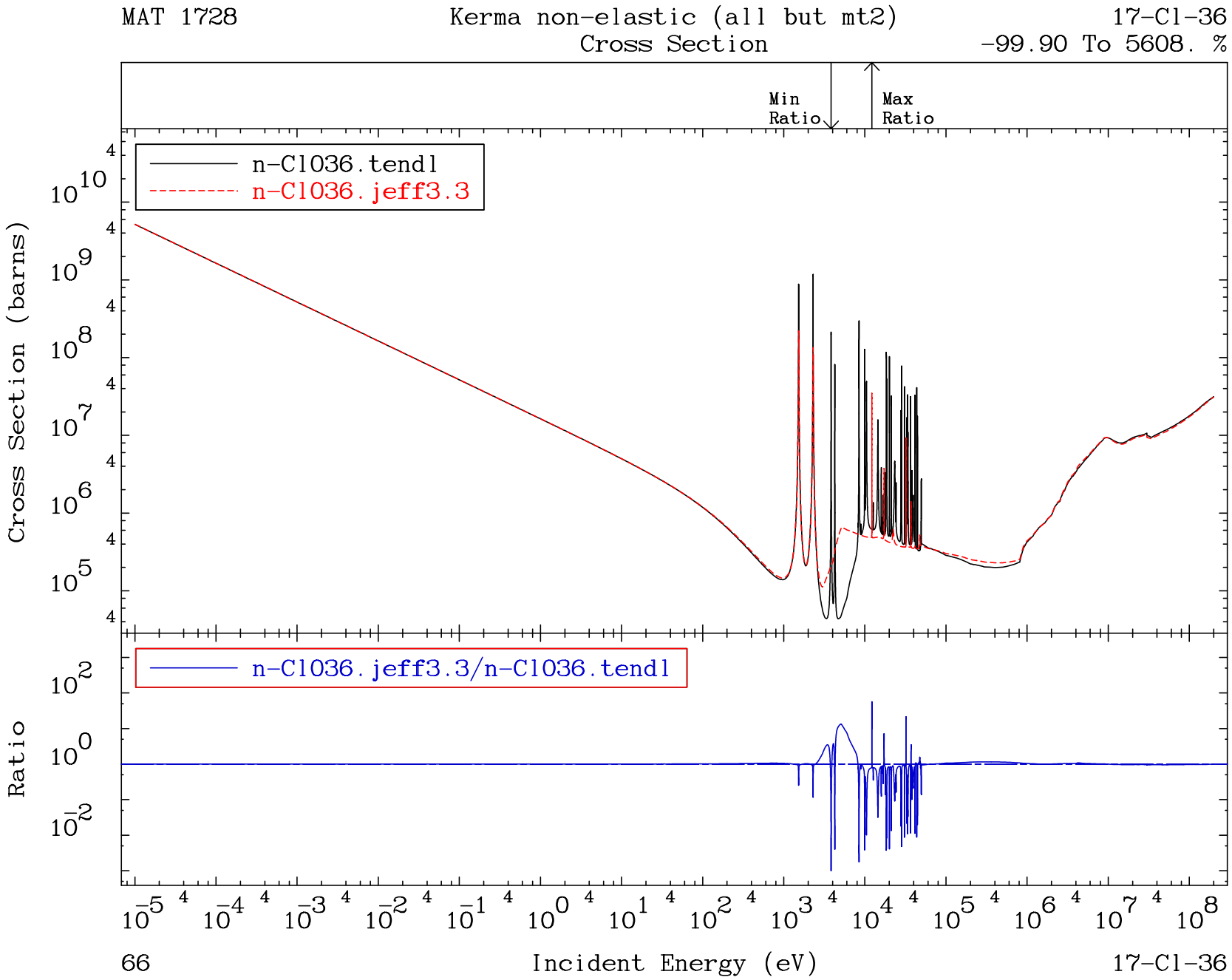

MAT 1728
Tritium Production
Cross Section
17-Cl-36
-59.17 To 73.24 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 6.6502 MeV
n-Cl036.jeff3.3 Threshold 6.6502 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.8
1.2
0.6
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
61
Incident Energy (eV)
17-Cl-36

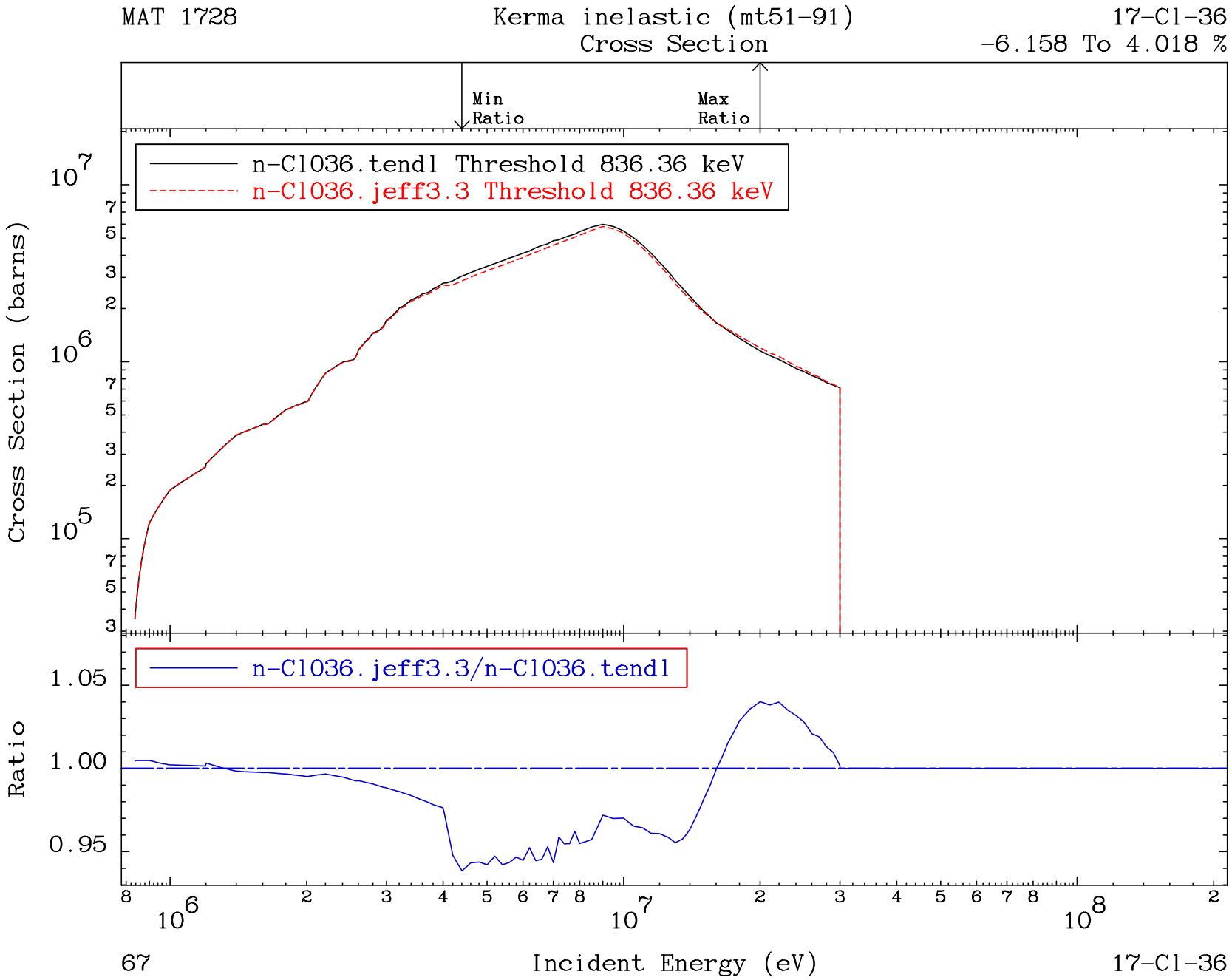

MAT 1728
He-3 Production
Cross Section
17-Cl-36
-59.18 To -4.785%
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 12.165 MeV
n-Cl036.jeff3.3 Threshold 12.165 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.0
0.8
0.6
0.4
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
17-Cl-36

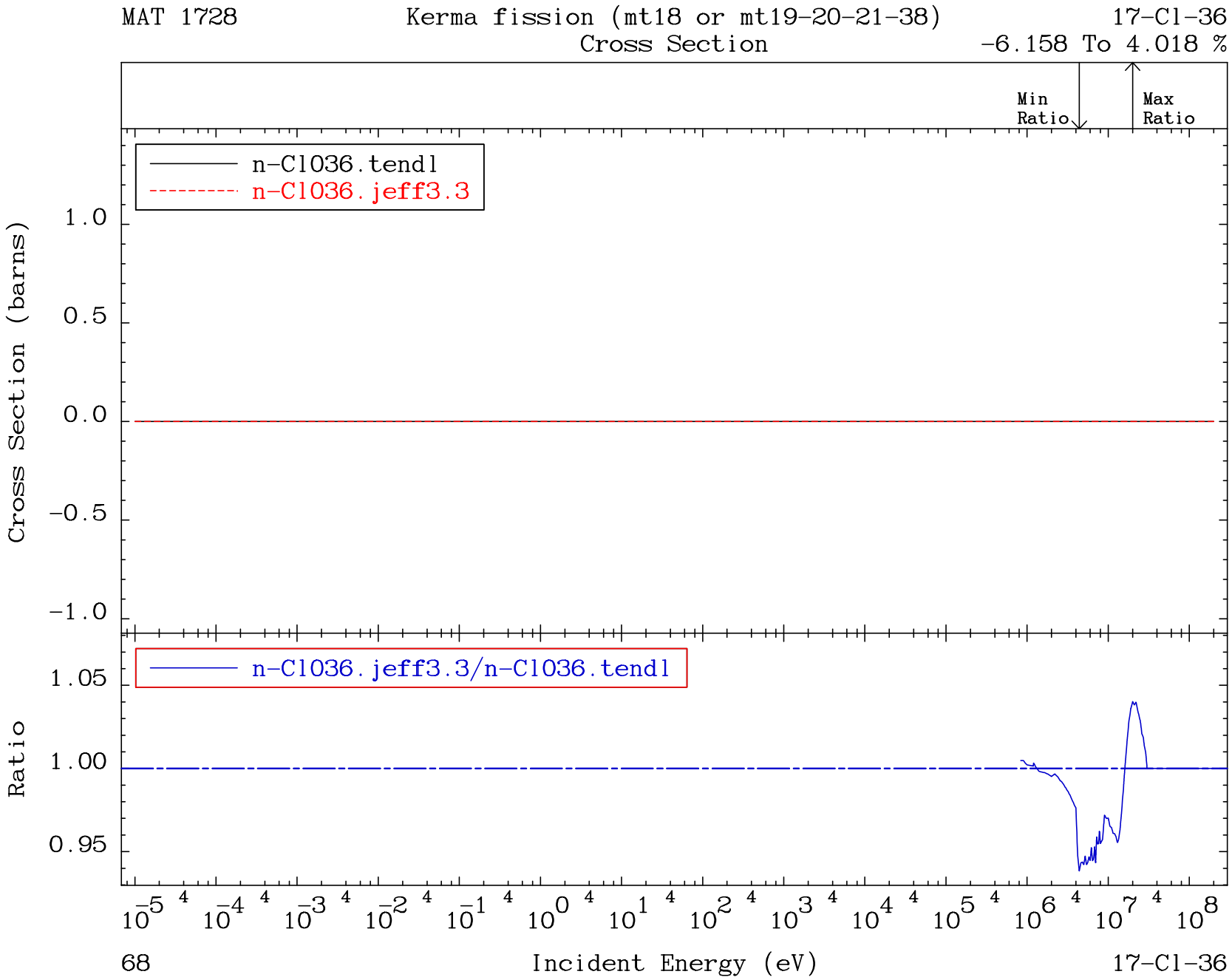

MAT 1728
He-4 Production
Cross Section
17-Cl-36
-8.684 To 5547. %
Max Ratio
Min Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
63
17-Cl-36

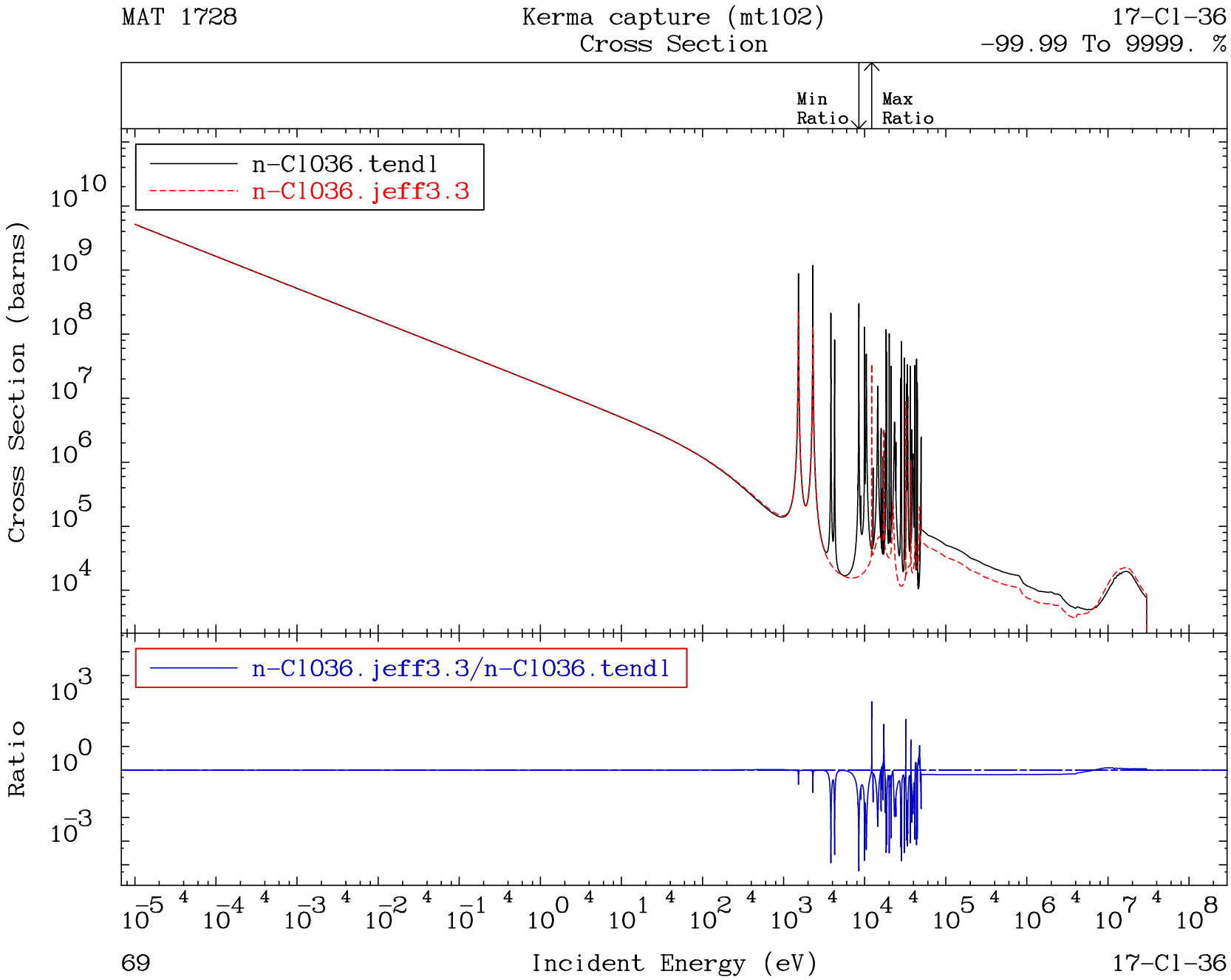

MAT 1728
Kerma total (eV-barns)
Cross Section
17-Cl-36
-99.90 To 5605. %
Min Ratio
Max Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
64
17-Cl-36

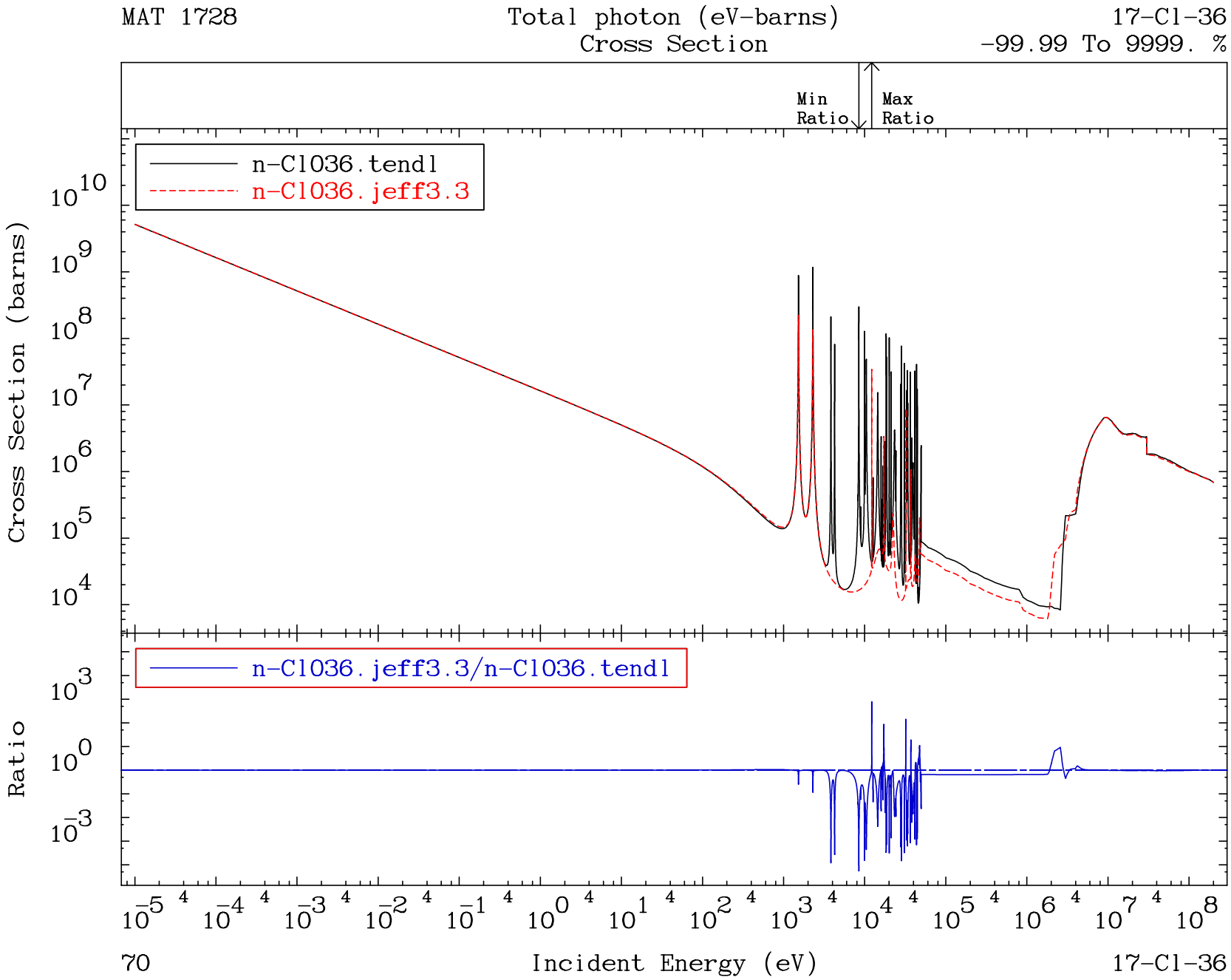

MAT 1728
Kerma elastic
Cross Section
17-Cl-36
-79.56 To 9999. %
Max Ratio
Min Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
65
17-Cl-36

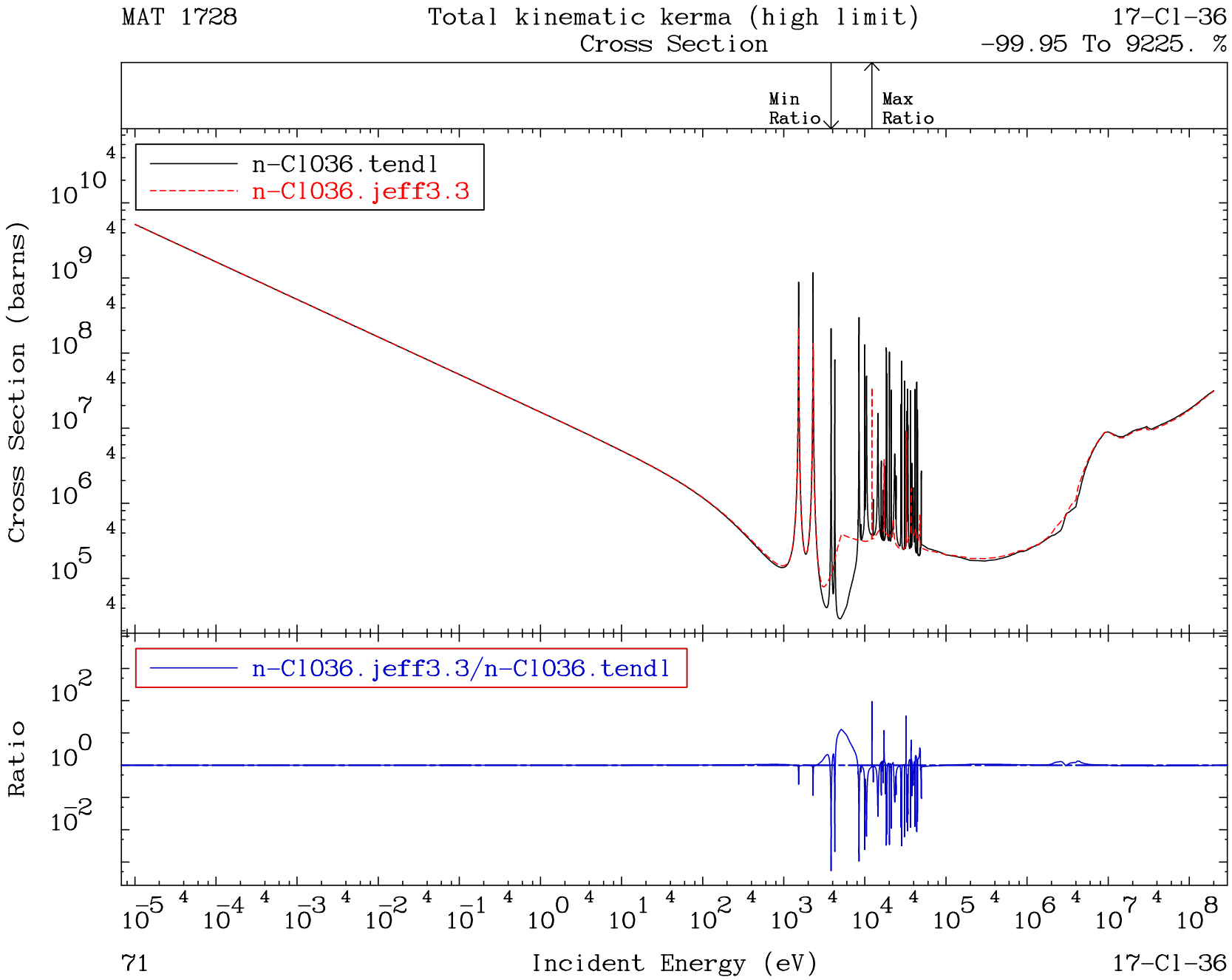

MAT 1728
Kerma non-elastic (all but mt2)
Cross Section
17-Cl-36
-99.90 To 5608. %
Min Ratio
Max Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
66
Incident Energy (eV)
17-Cl-36

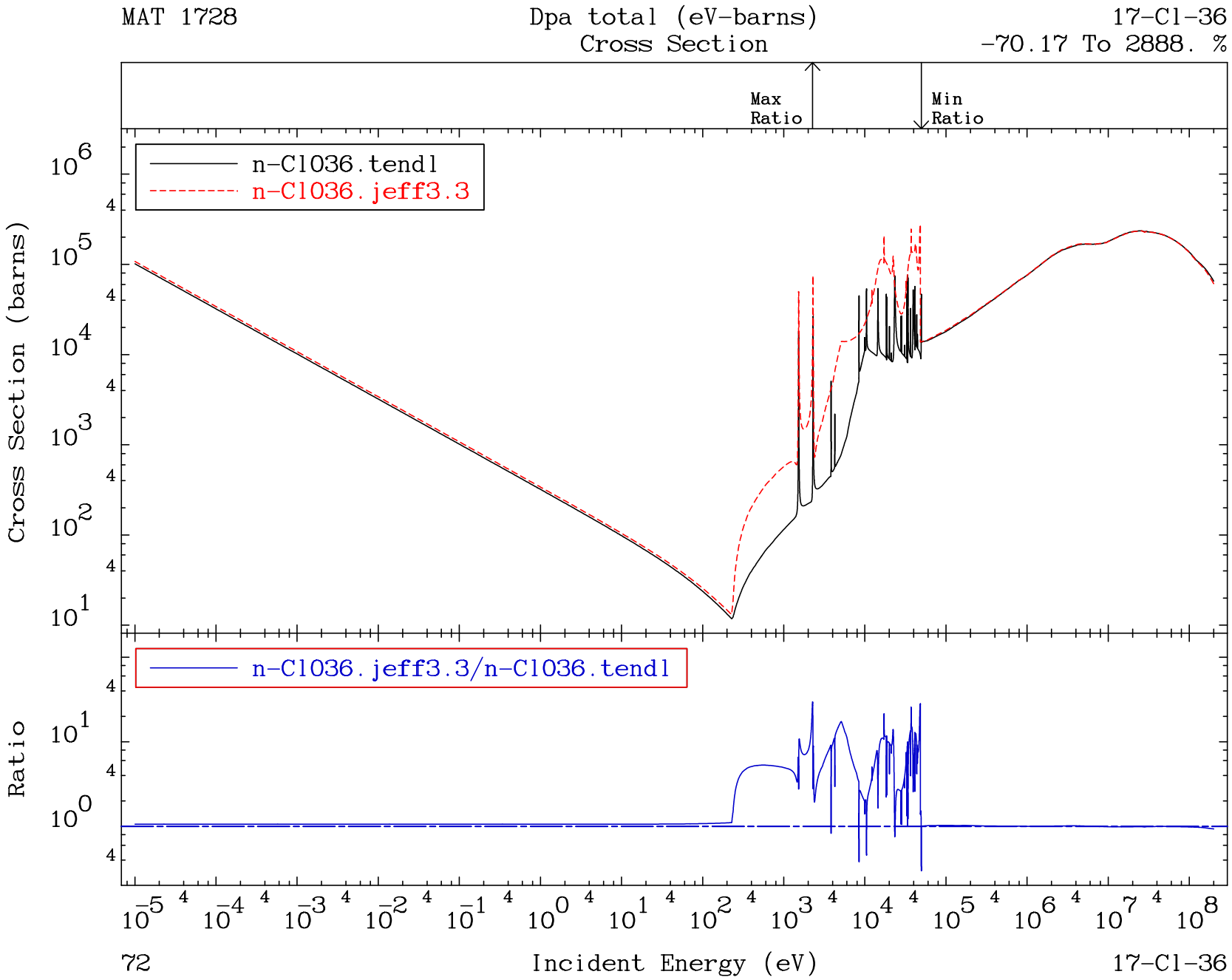

MAT 1728
Kerma inelastic (mt51-91)
Cross Section
17-Cl-36
-6.158 To 4.018 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 836.36 keV
n-Cl036.jeff3.3 Threshold 836.36 keV
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
67
17-Cl-36

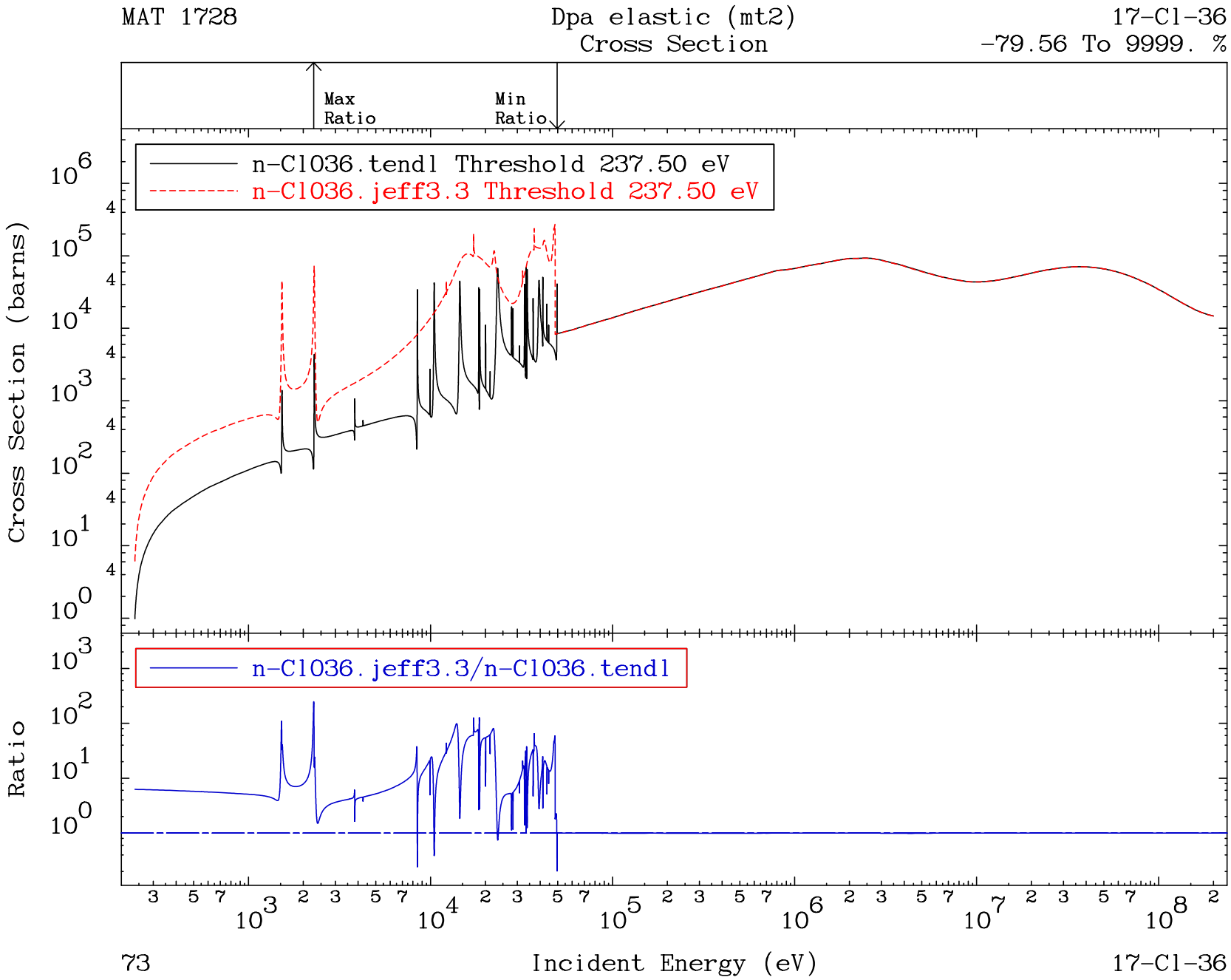

MAT 1728
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
17-Cl-36
-6.158 To 4.018 %
Min Ratio
Max Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.05
1.00
0.95
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
68
Incident Energy (eV)
17-Cl-36

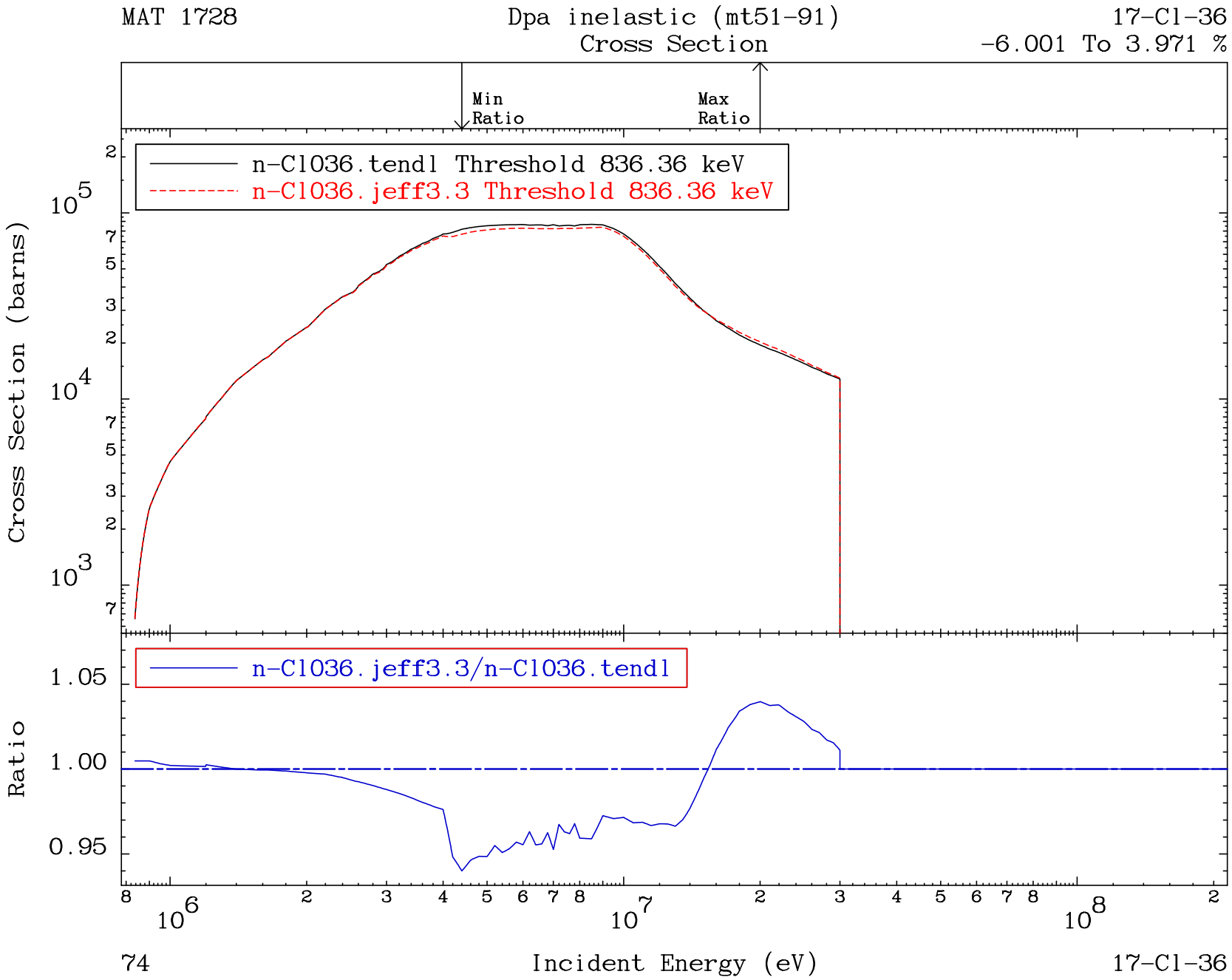

MAT 1728
Kerma capture (mt102)
Cross Section
17-Cl-36
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
69
Incident Energy (eV)
17-Cl-36

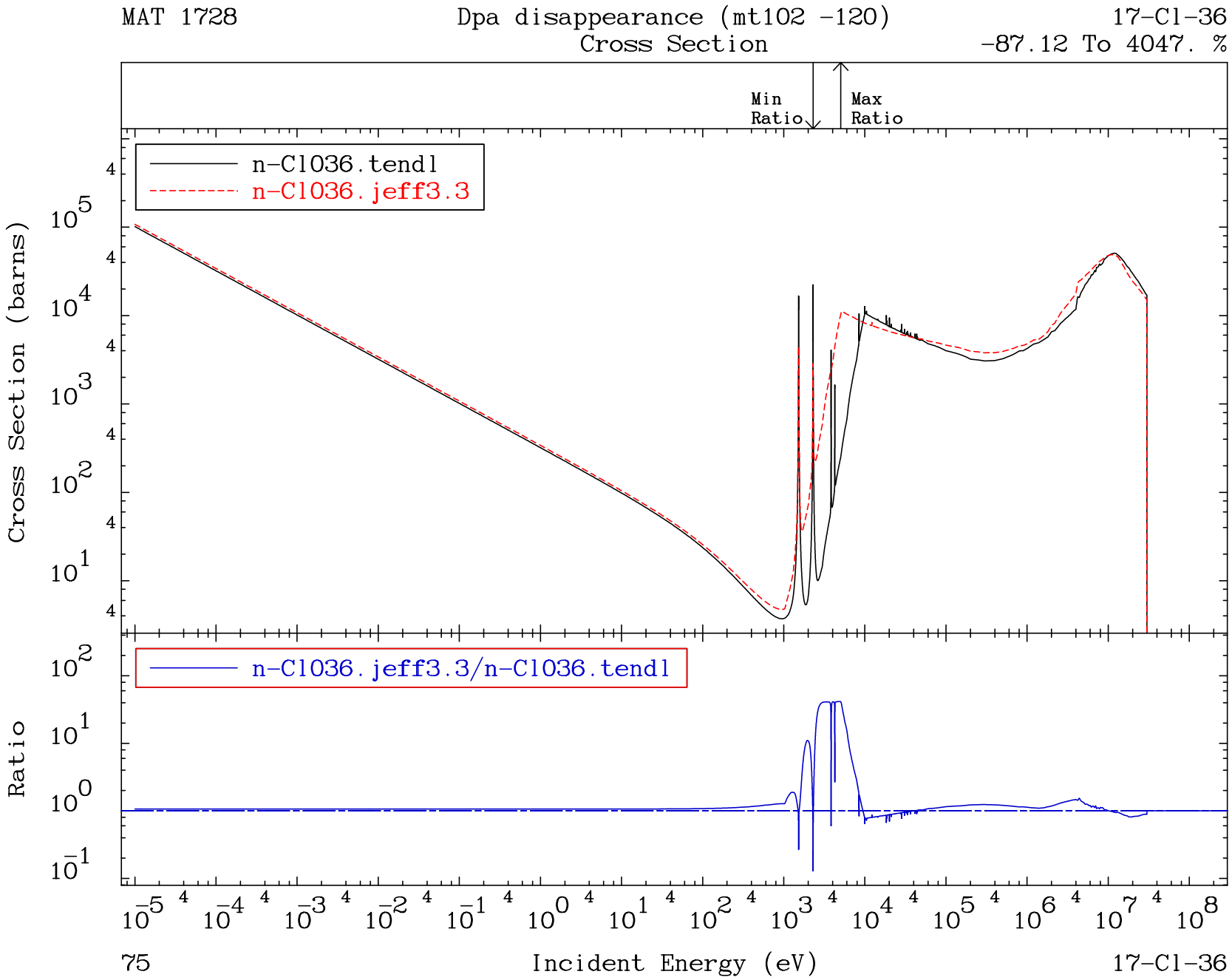

MAT 1728
Total photon (eV-barns)
Cross Section
17-Cl-36
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
70
17-Cl-36

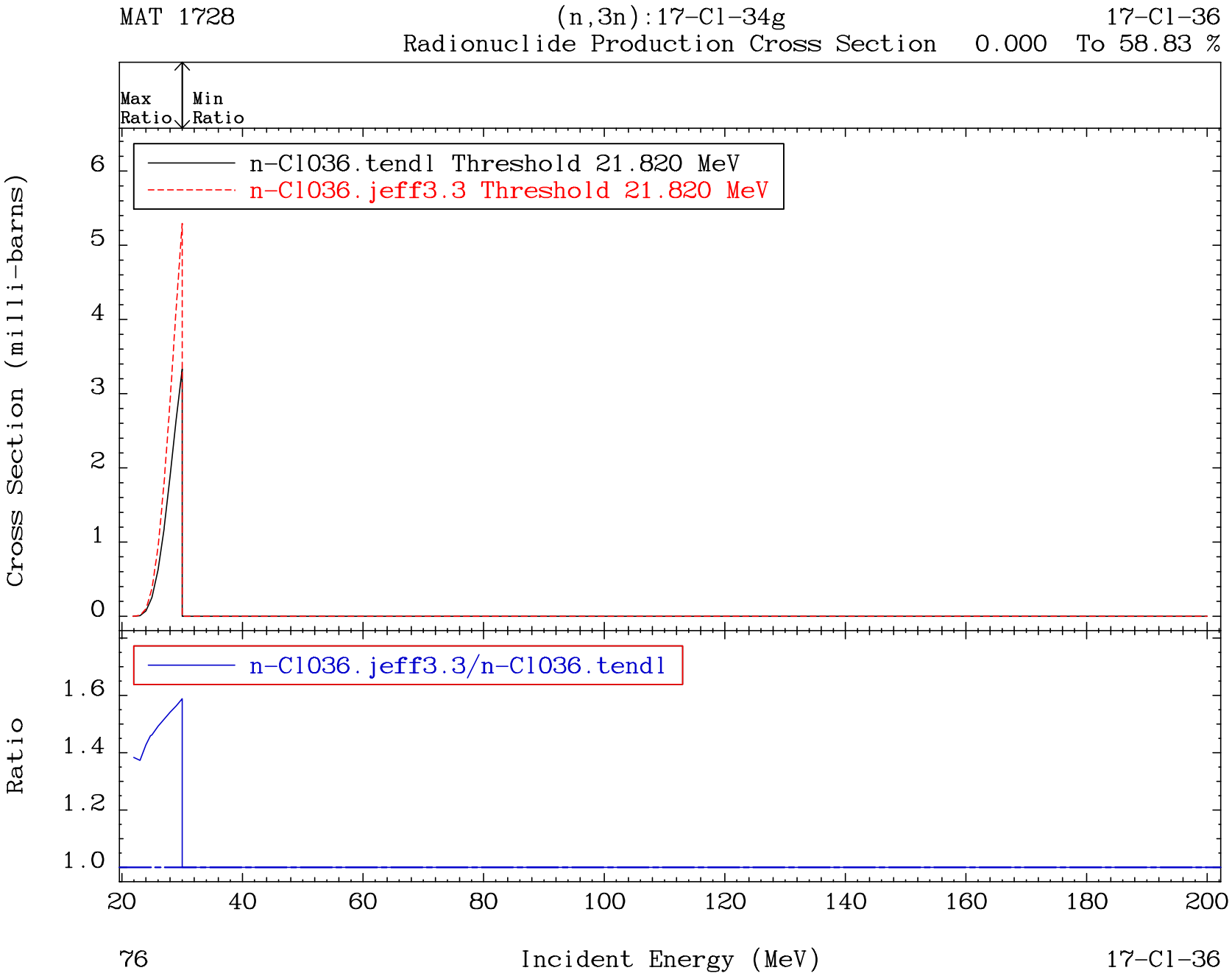

MAT 1728
Total kinematic kerma (high limit)
Cross Section
17-Cl-36
-99.95 To 9225. %
Min Ratio
Max Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
71
17-Cl-36

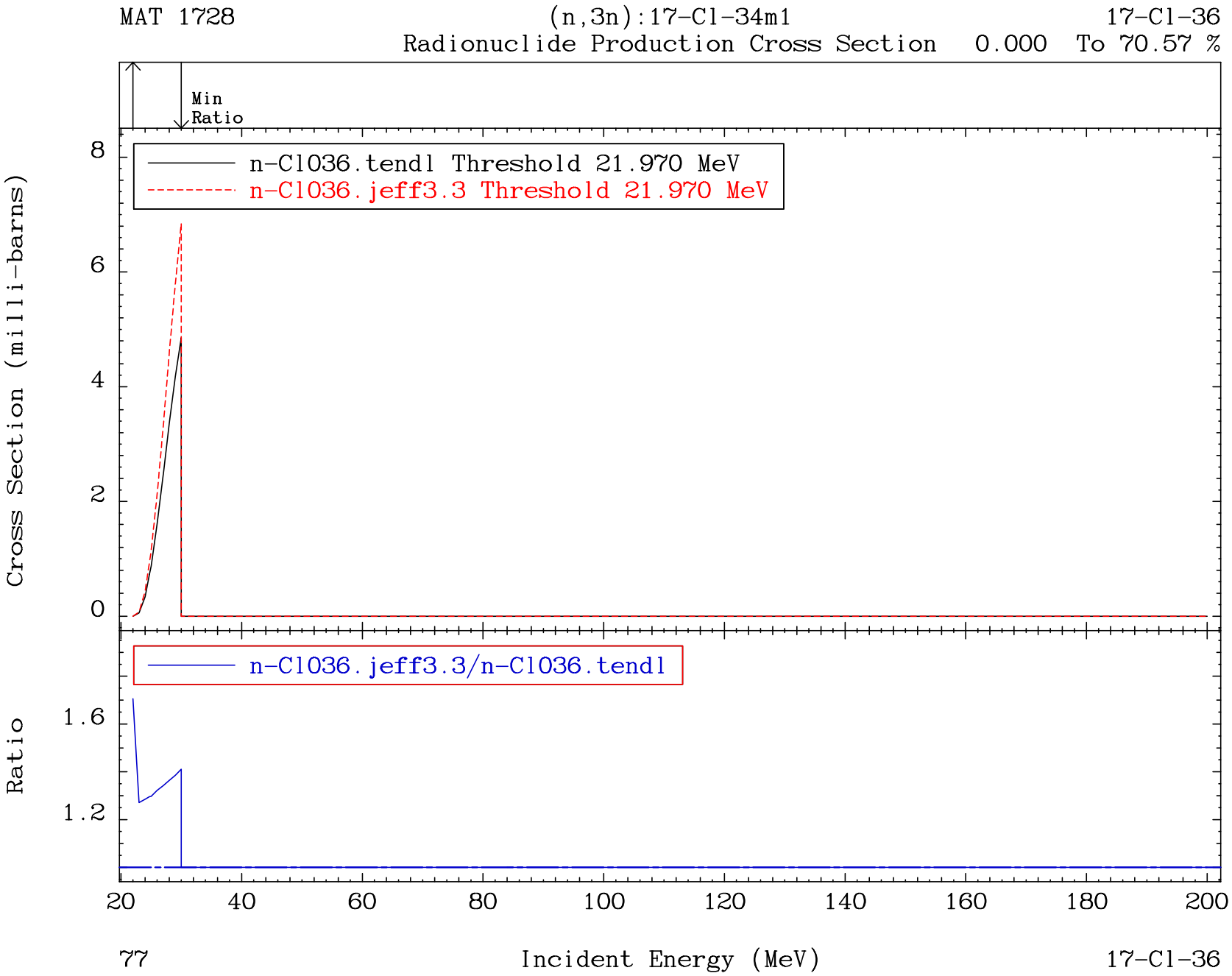

MAT 1728
Dpa total (eV-barns)
Cross Section
17-Cl-36
-70.17 To 2888. %
Max Ratio
Min Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
72
17-Cl-36


MAT 1728
Dpa elastic (mt2)
Cross Section
17-Cl-36
-79.56 To 9999. %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 237.50 eV
n-Cl036.jeff3.3 Threshold 237.50 eV
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
73
17-Cl-36


MAT 1728
Dpa inelastic (mt51-91)
Cross Section
17-Cl-36
-6.001 To 3.971 %
Min Ratio
Max Ratio
n-Cl036.tendl Threshold 836.36 keV
n-Cl036.jeff3.3 Threshold 836.36 keV
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
74
17-Cl-36


MAT 1728
Dpa disappearance (mt102 -120)
Cross Section
17-Cl-36
-87.12 To 4047. %
Min Ratio
Max Ratio
n-Cl036.tendl
n-Cl036.jeff3.3
Cross Section (barns)
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
Incident Energy (eV)
75
17-Cl-36


MAT 1728
(n,3n):17-Cl-34g
17-Cl-36
Radionuclide Production Cross Section 0.000 To 58.83 %
Max Ratio
Min Ratio
n-Cl036.tendl Threshold 21.820 MeV
n-Cl036.jeff3.3 Threshold 21.820 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.0
1.2
1.4
1.6
20
40
60
80
100
120
140
160
180
200
76
Incident Energy (MeV)
17-Cl-36


MAT 1728
(n,3n):17-Cl-34m1
17-Cl-36
Radionuclide Production Cross Section 0.000 To 70.57 %
Min
Ratio
n-Cl036.tendl Threshold 21.970 MeV
n-Cl036.jeff3.3 Threshold 21.970 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Cl036.jeff3.3/n-Cl036.tendl
Ratio
1.2
1.6
20
40
60
80
100
120
140
160
180
200
77
Incident Energy (MeV)
17-Cl-36