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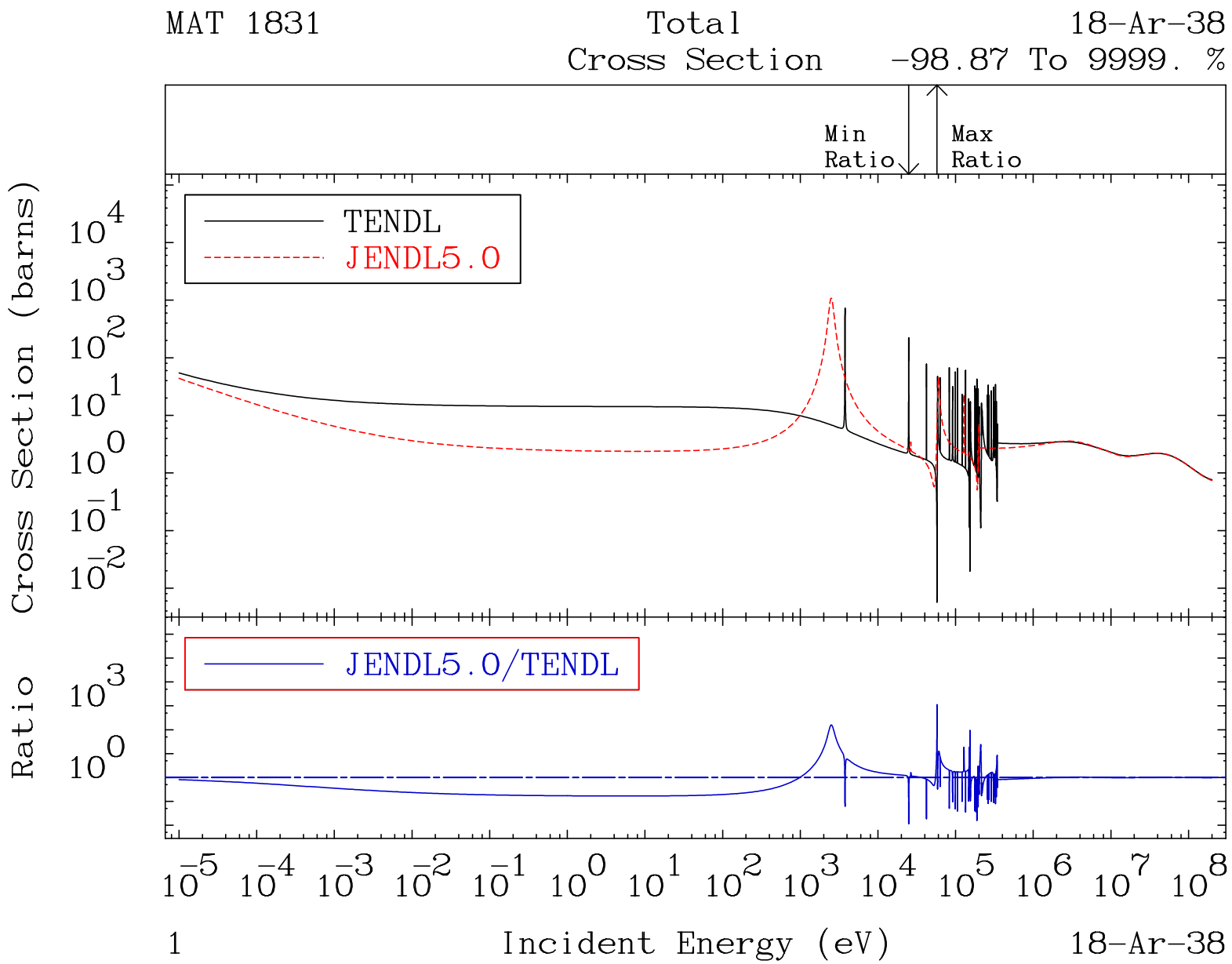
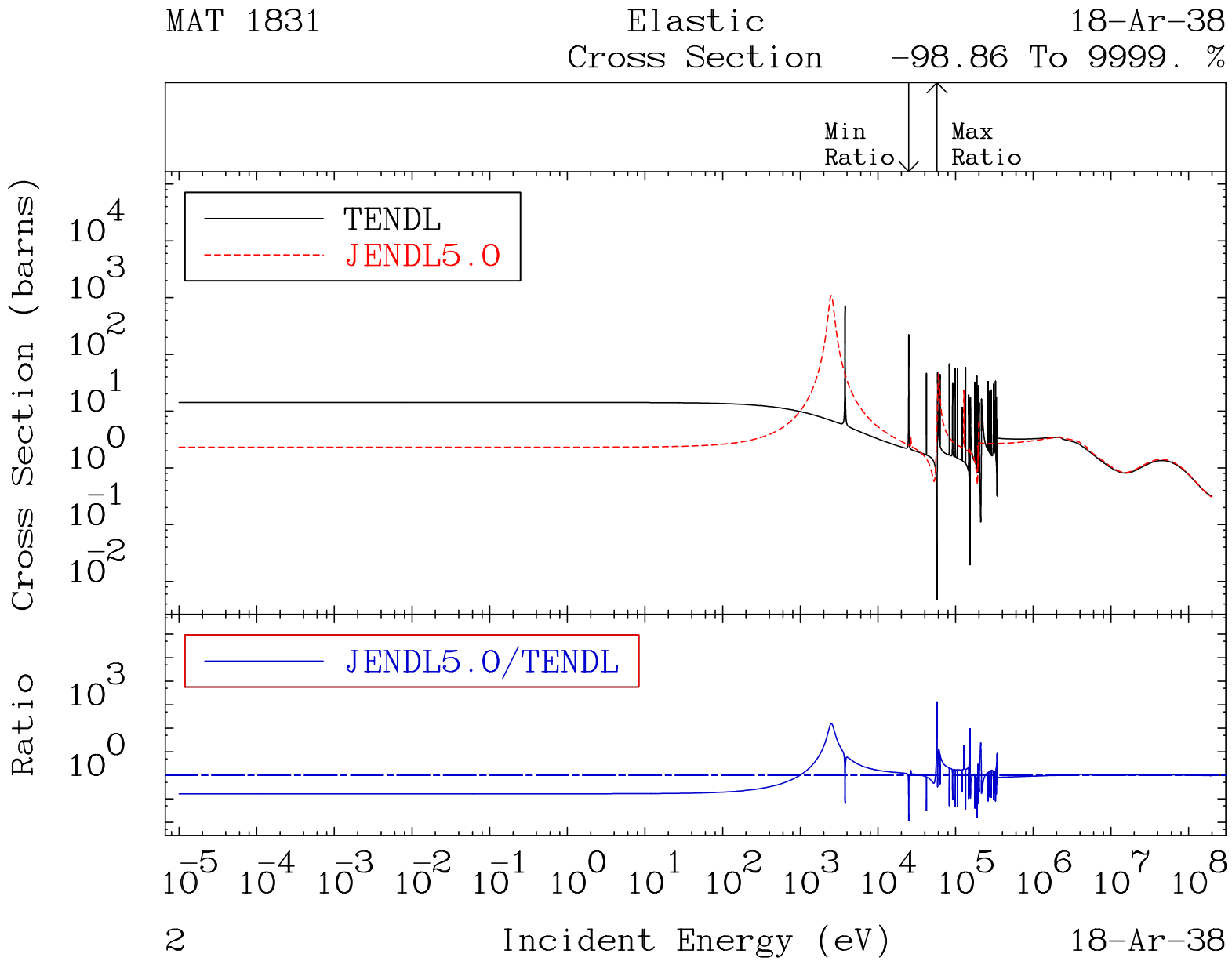
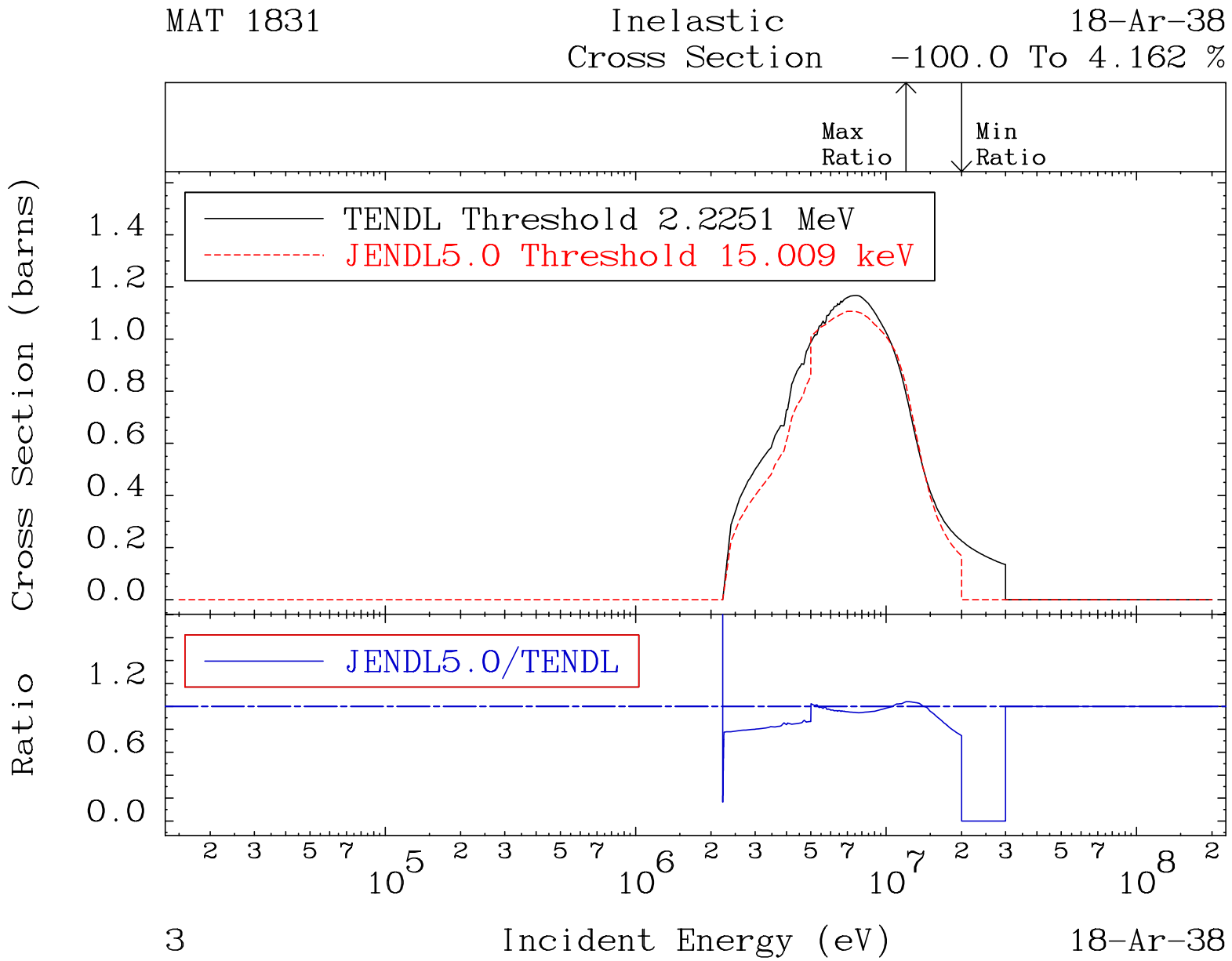
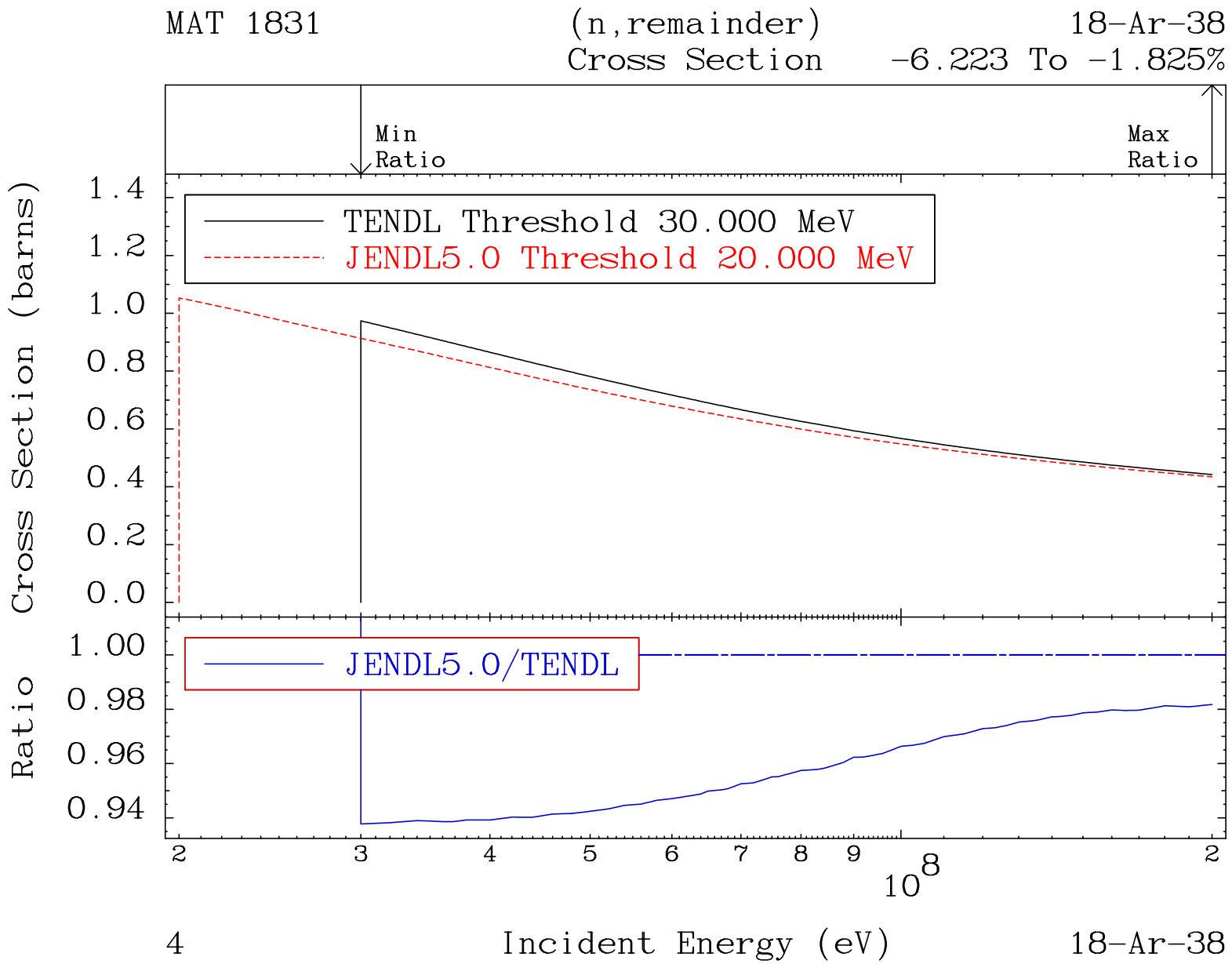
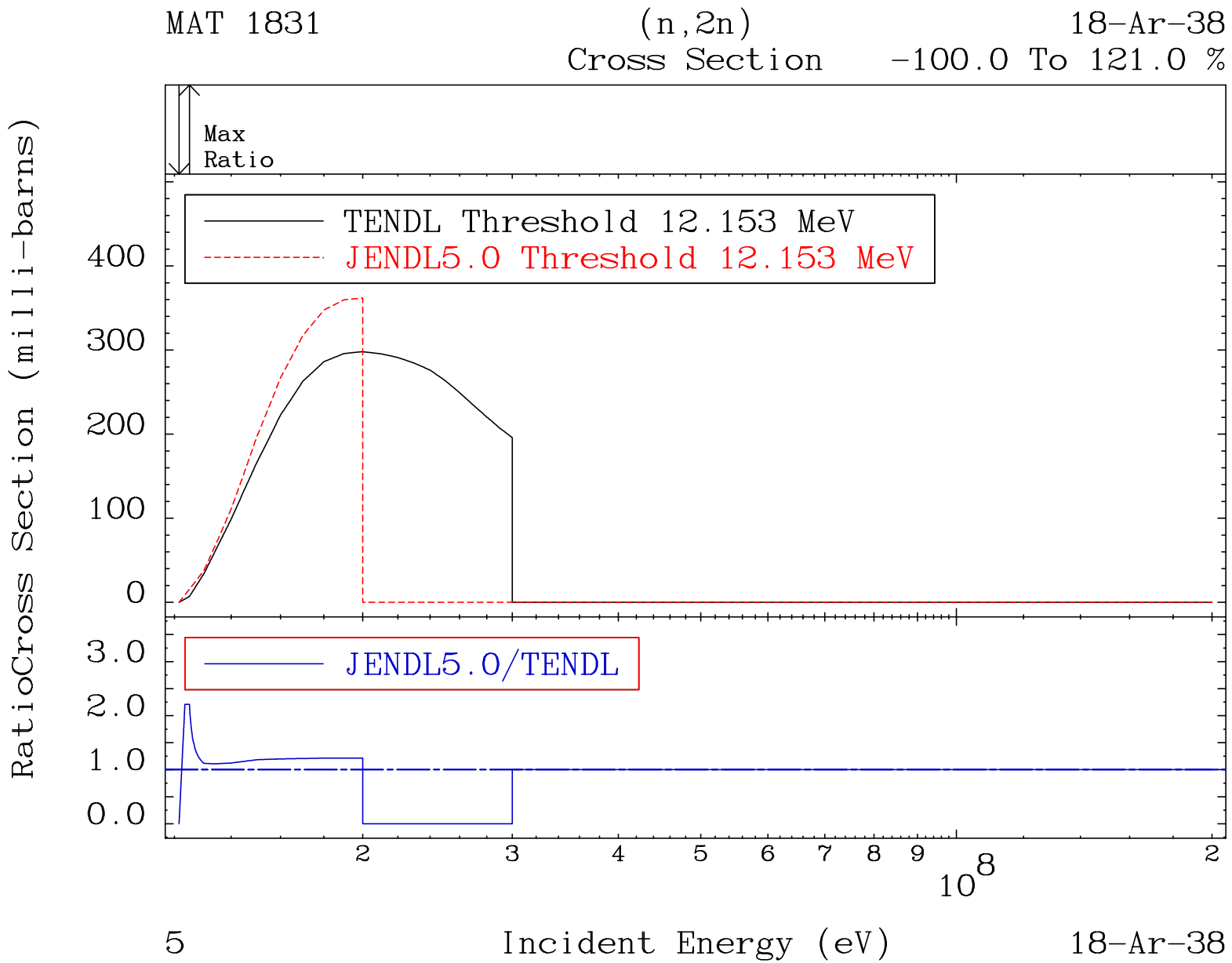
Press Mouse Button to Start

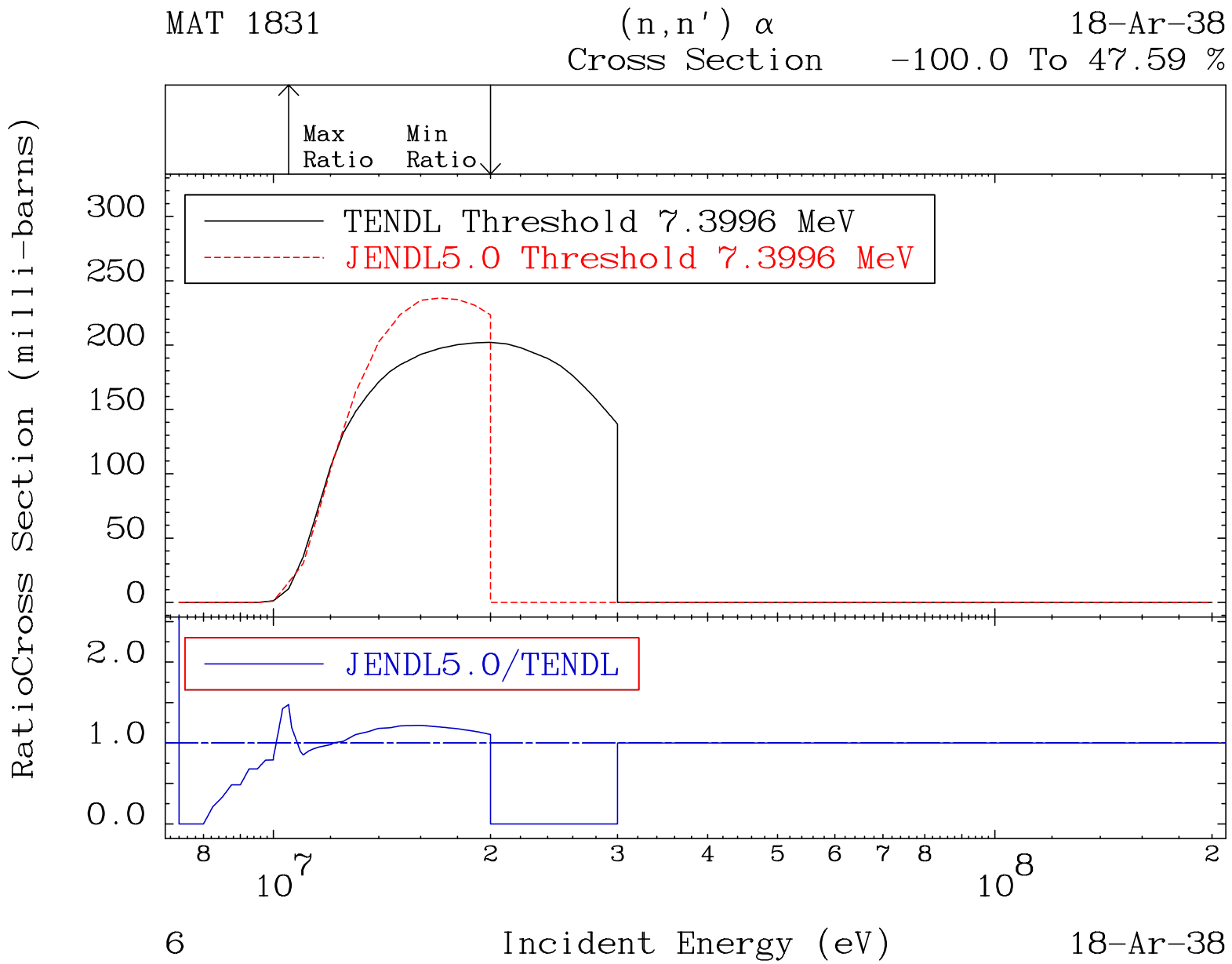

MAT 1831
Total
Cross Section
18-Ar-38
-98.87 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
1
18-Ar-38

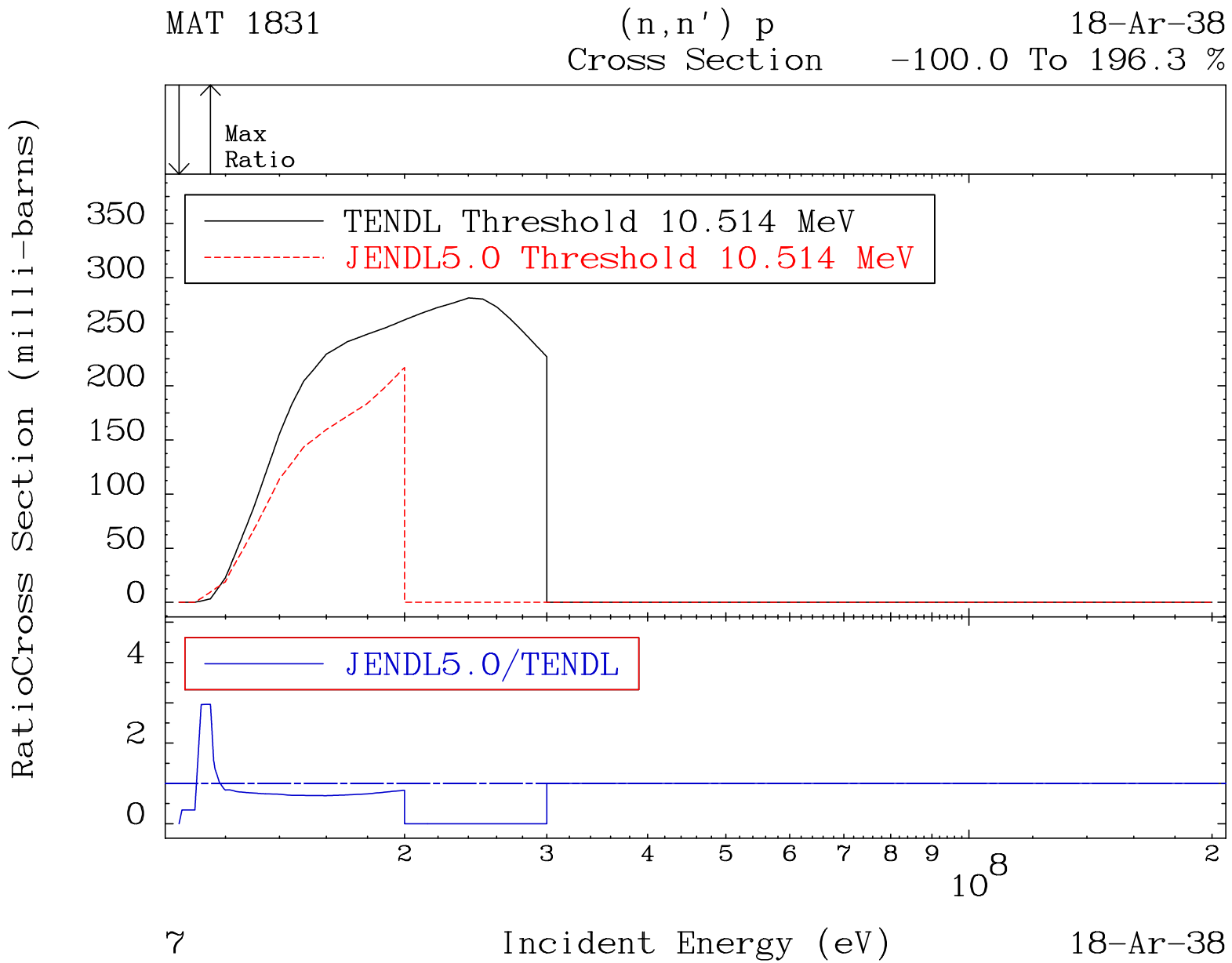

MAT 1831
Elastic
Cross Section
18-Ar-38
-98.86 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
2
18-Ar-38

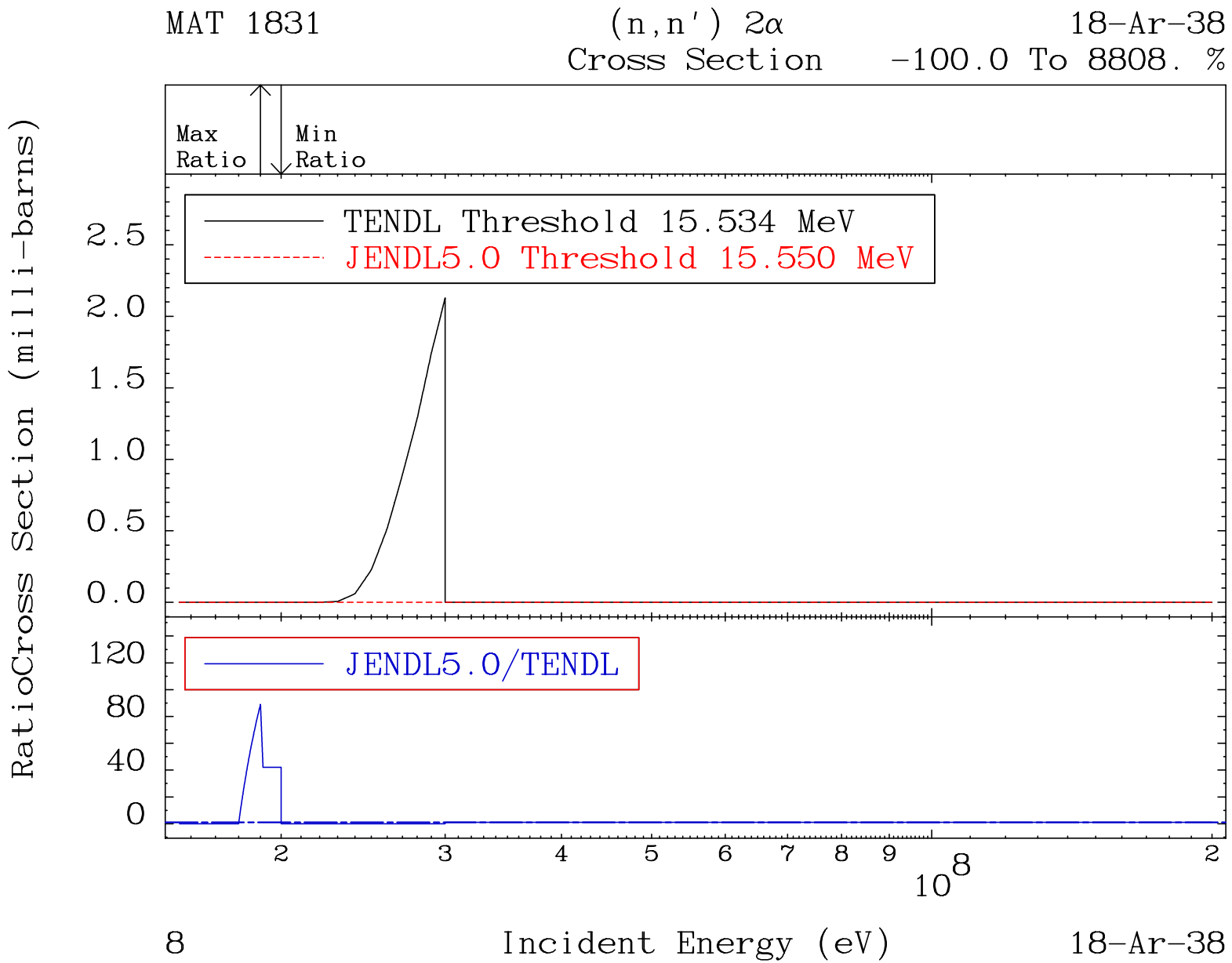

MAT 1831
Inelastic
Cross Section
18-Ar-38
-100.0 To 4.162 %
Max Ratio
Min Ratio
TENDL Threshold 2.2251 MeV
JENDL5.0 Threshold 15.009 keV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
3
Incident Energy (eV)
18-Ar-38

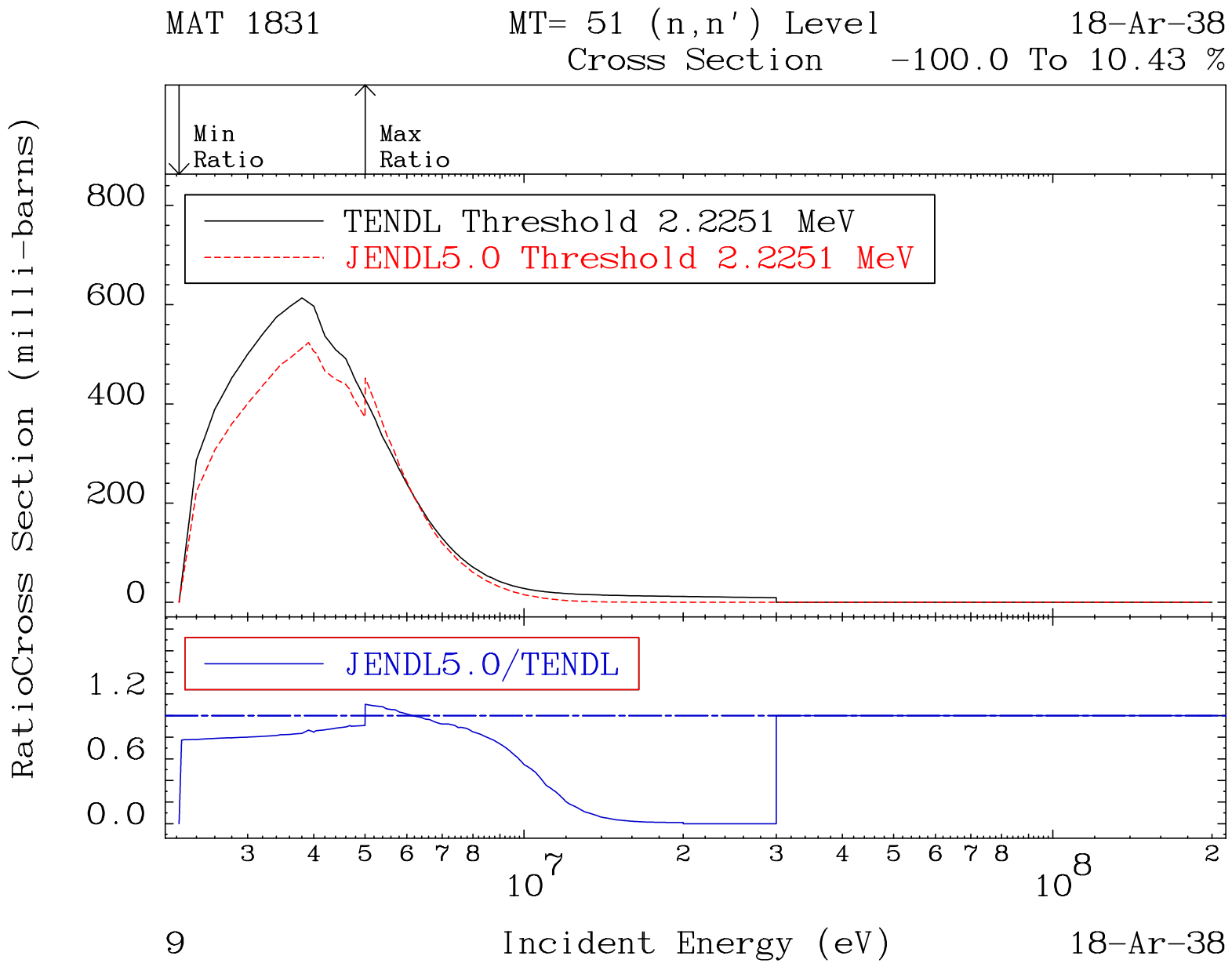

MAT 1831
(n,remainder)
Cross Section
18-Ar-38
-6.223 To -1.825%
Min
Ratio
Max
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1.00
0.98
0.96
0.94
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
18-Ar-38

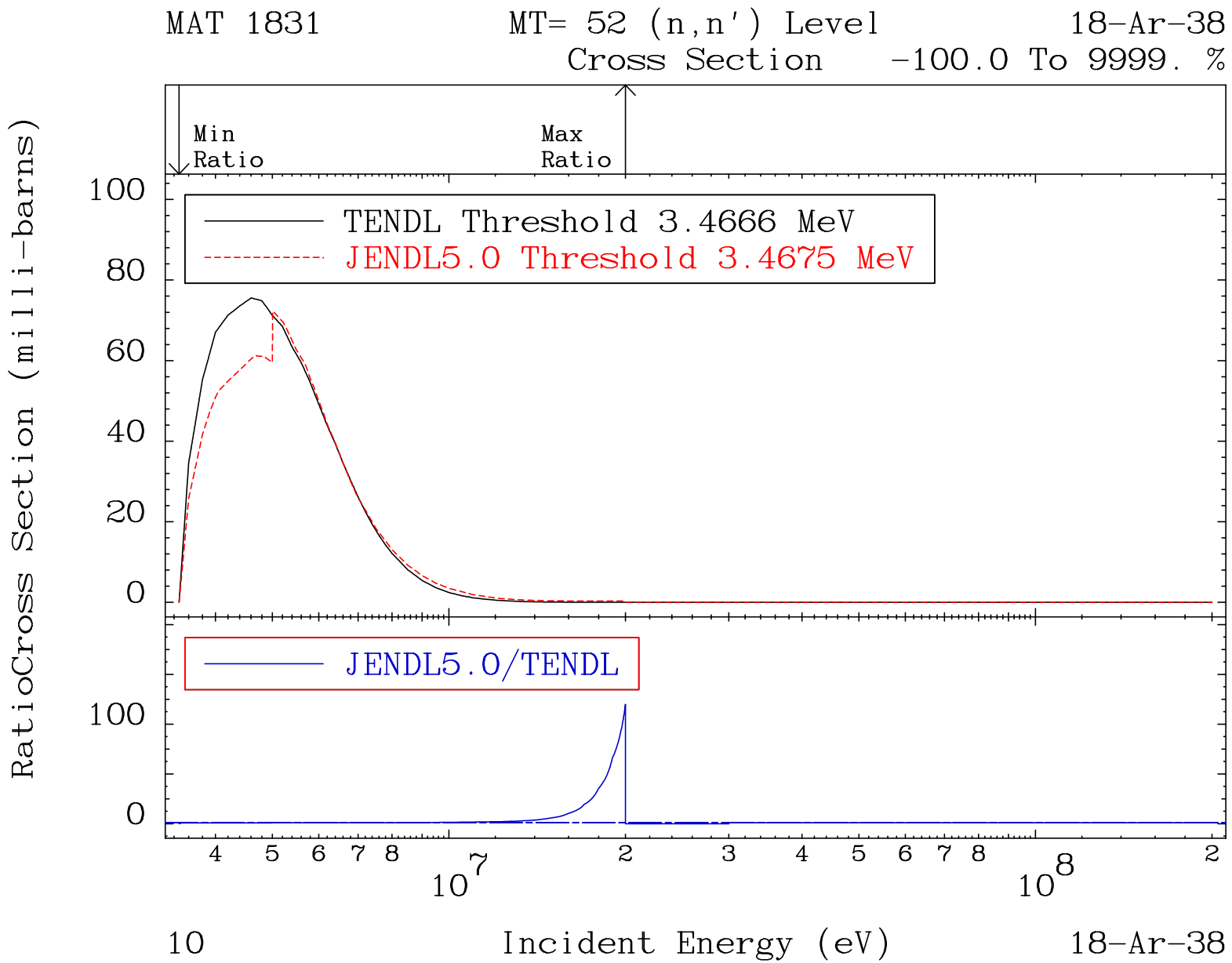

MAT 1831
(n,2n)
Cross Section
18-Ar-38
-100.0 To 121.0 %
Max
Ratio
TENDL Threshold 12.153 MeV
JENDL5.0 Threshold 12.153 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
5
Incident Energy (eV)
18-Ar-38

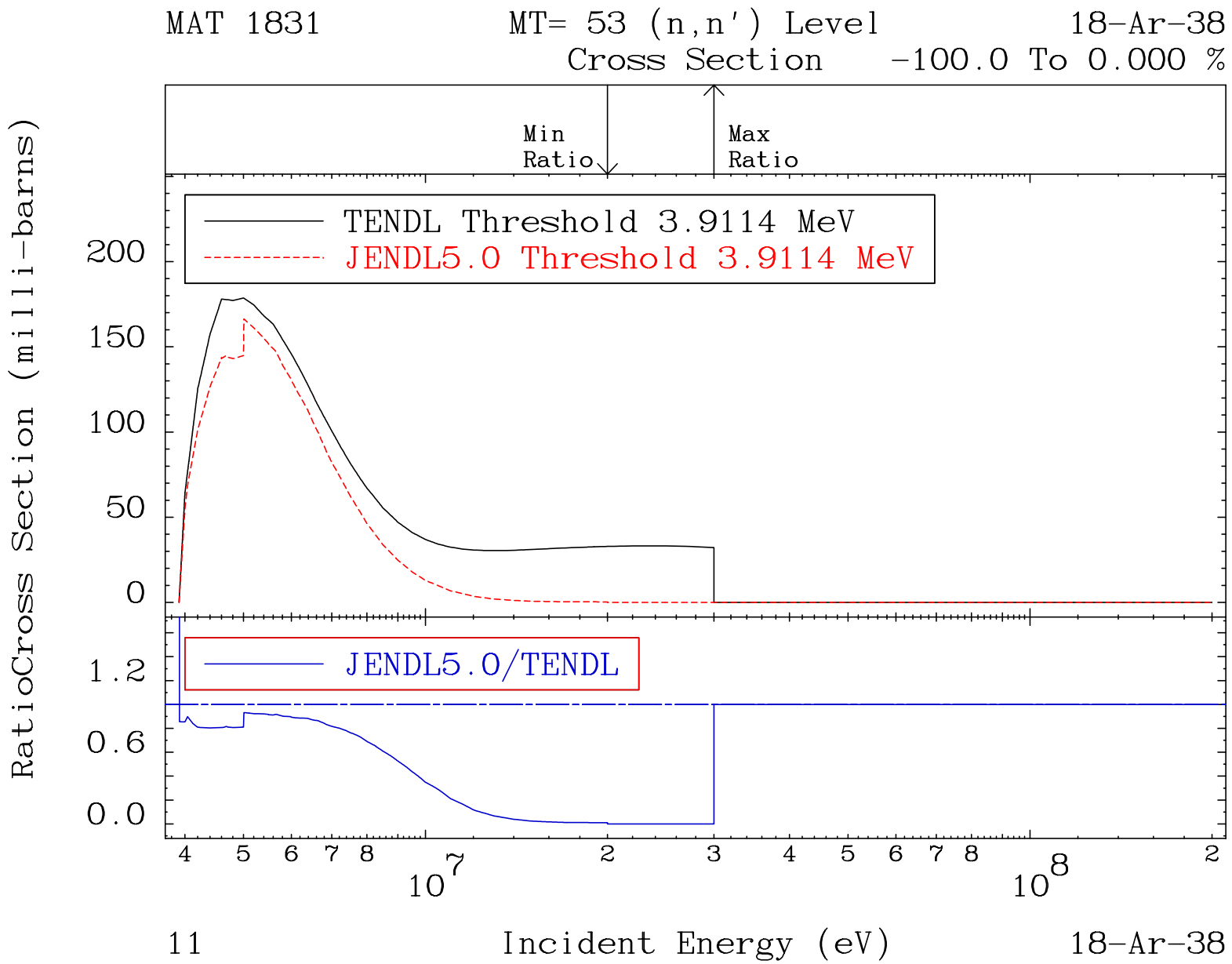

MAT 1831
(n,n') α
Cross Section
18-Ar-38
-100.0 To 47.59 %
Max Ratio
Min Ratio
TENDL Threshold 7.3996 MeV
JENDL5.0 Threshold 7.3996 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2.0
1.0
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
6
Incident Energy (eV)
18-Ar-38

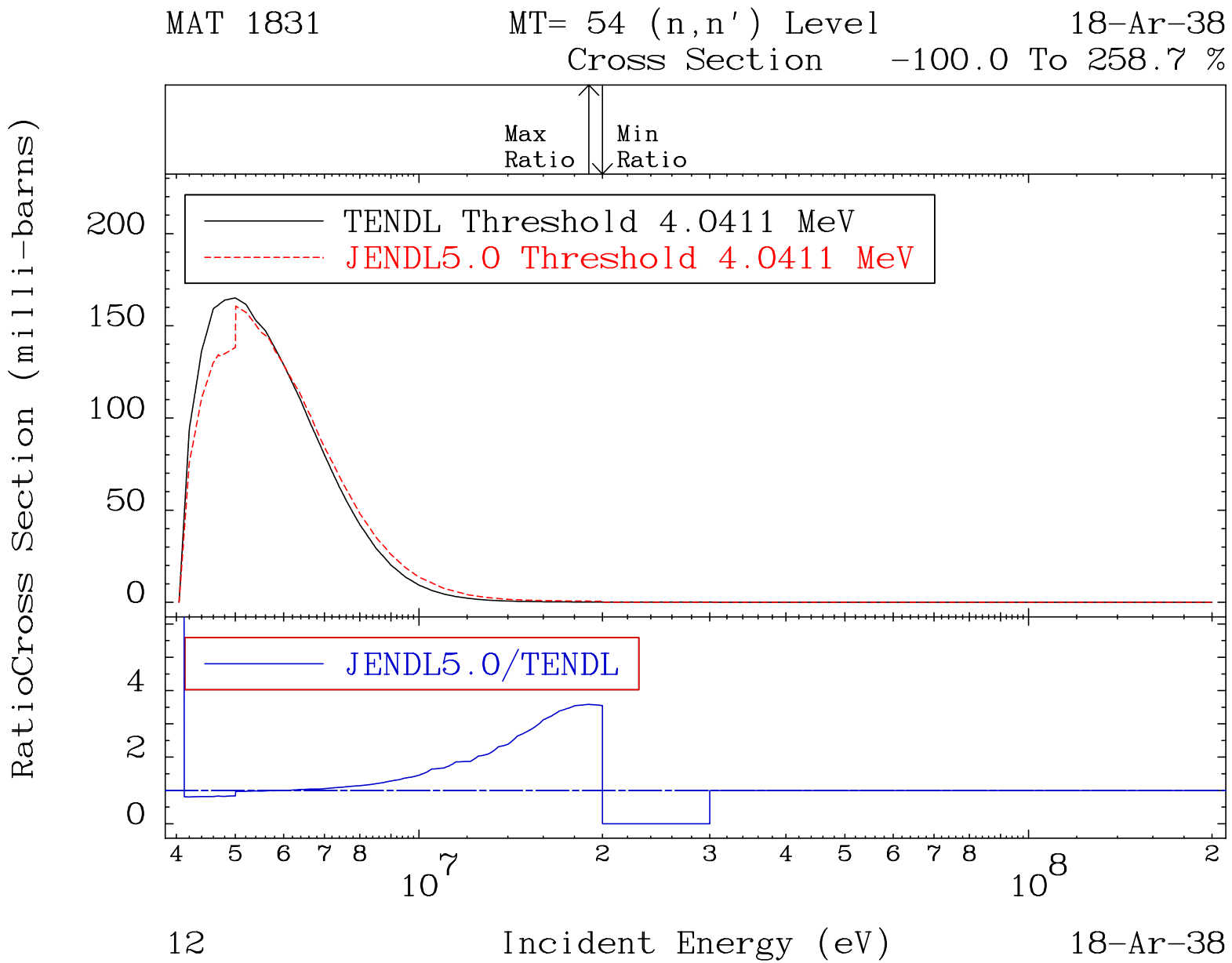

MAT 1831
(n,n') p
Cross Section
18-Ar-38
-100.0 To 196.3 %
Max
Ratio
TENDL Threshold 10.514 MeV
JENDL5.0 Threshold 10.514 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
4
2
0
2
3
4
5
6
7
8
9
2
10^8
7
Incident Energy (eV)
18-Ar-38

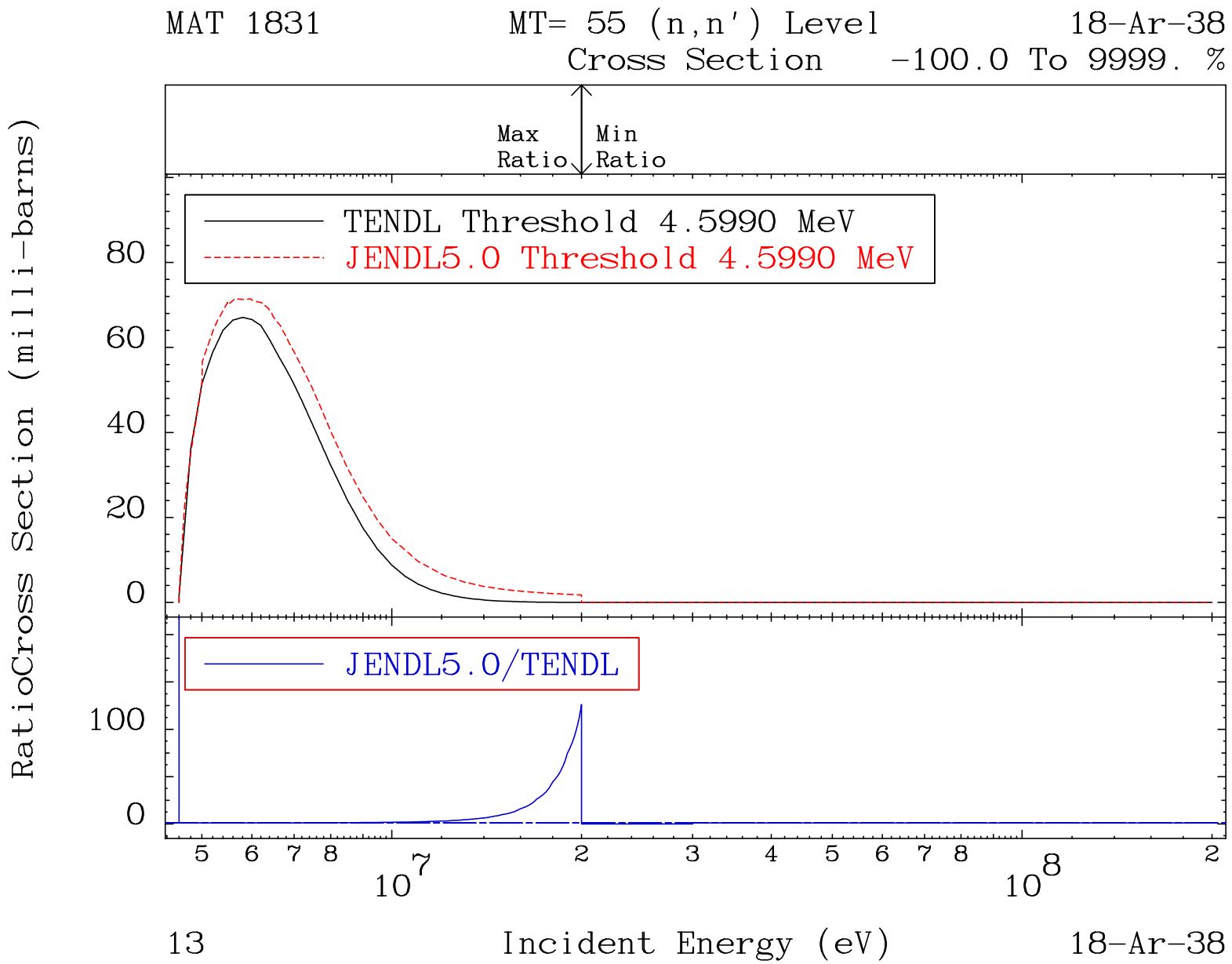

MAT 1831
(n,n') 2α
Cross Section
18-Ar-38
-100.0 To 8808. %
Max Ratio
Min Ratio
TENDL Threshold 15.534 MeV
JENDL5.0 Threshold 15.550 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
120
80
40
0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
18-Ar-38

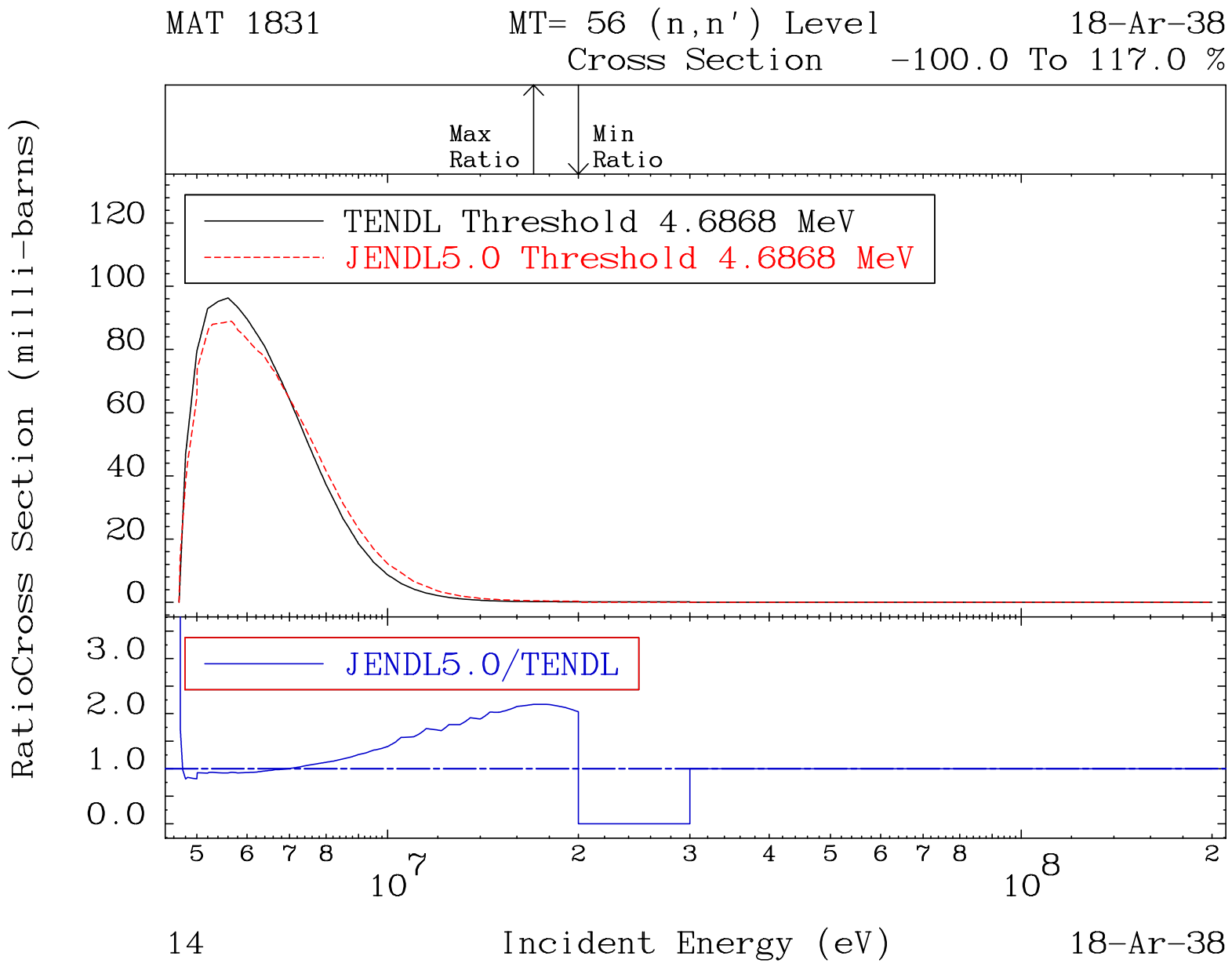

MAT 1831
MT= 51 (n,n') Level
18-Ar-38
Cross Section -100.0 To 10.43 %
Min Ratio
Max Ratio
TENDL Threshold 2.2251 MeV
JENDL5.0 Threshold 2.2251 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
18-Ar-38

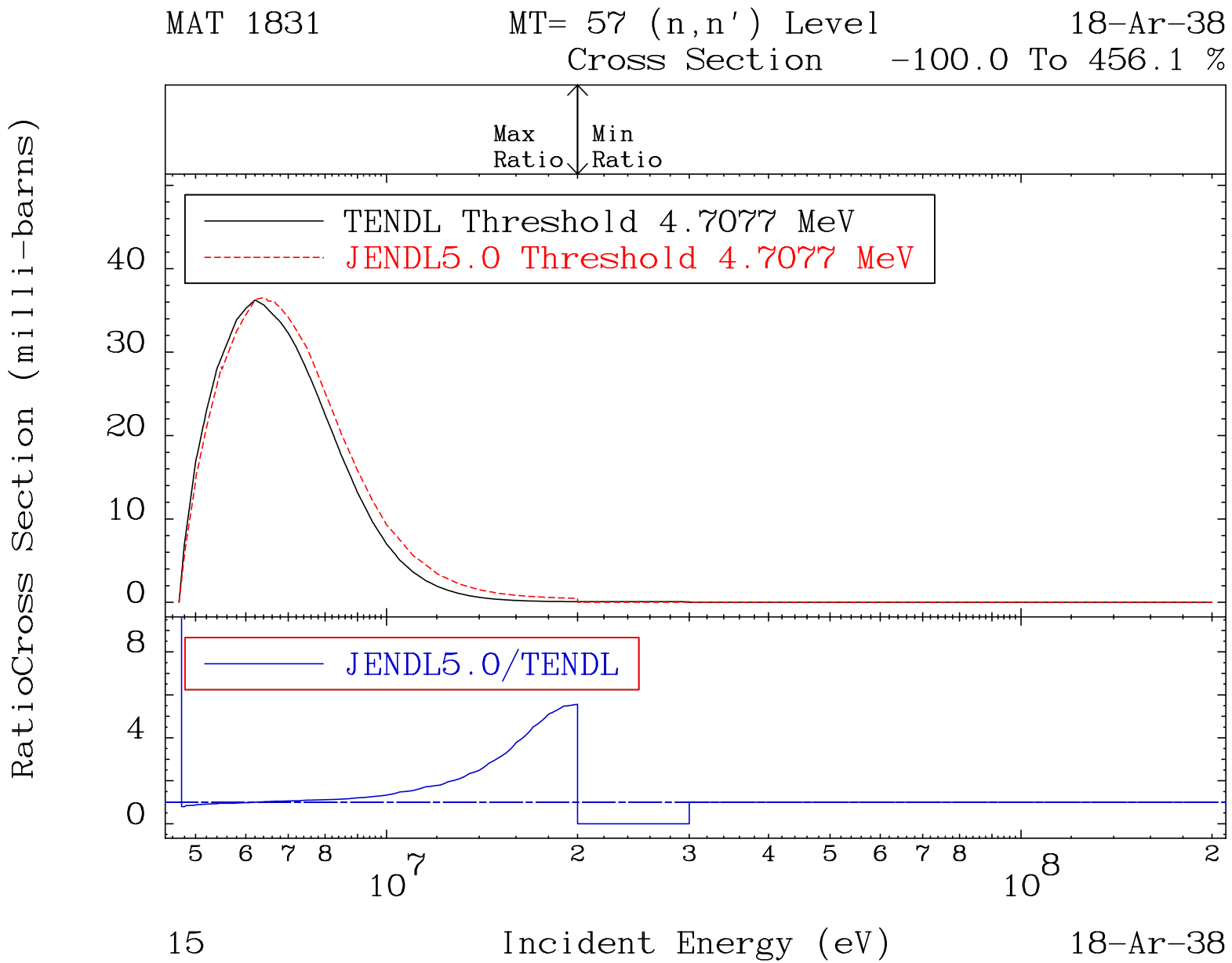

MAT 1831
MT= 52 (n,n') Level
18-Ar-38
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.4666 MeV
JENDL5.0 Threshold 3.4675 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
100
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
18-Ar-38

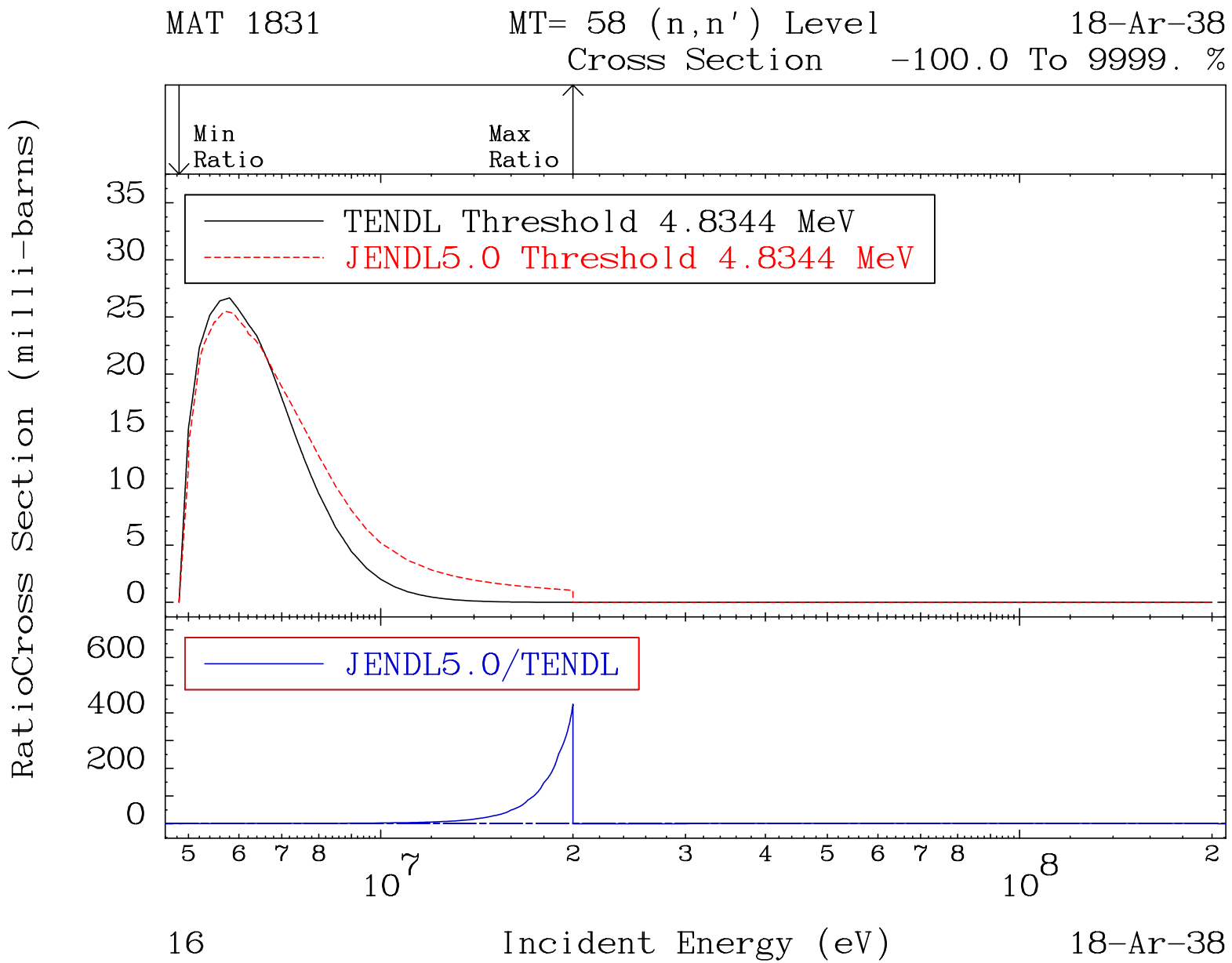

MAT 1831
MT= 53 (n,n') Level
18-Ar-38
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.9114 MeV
JENDL5.0 Threshold 3.9114 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
18-Ar-38

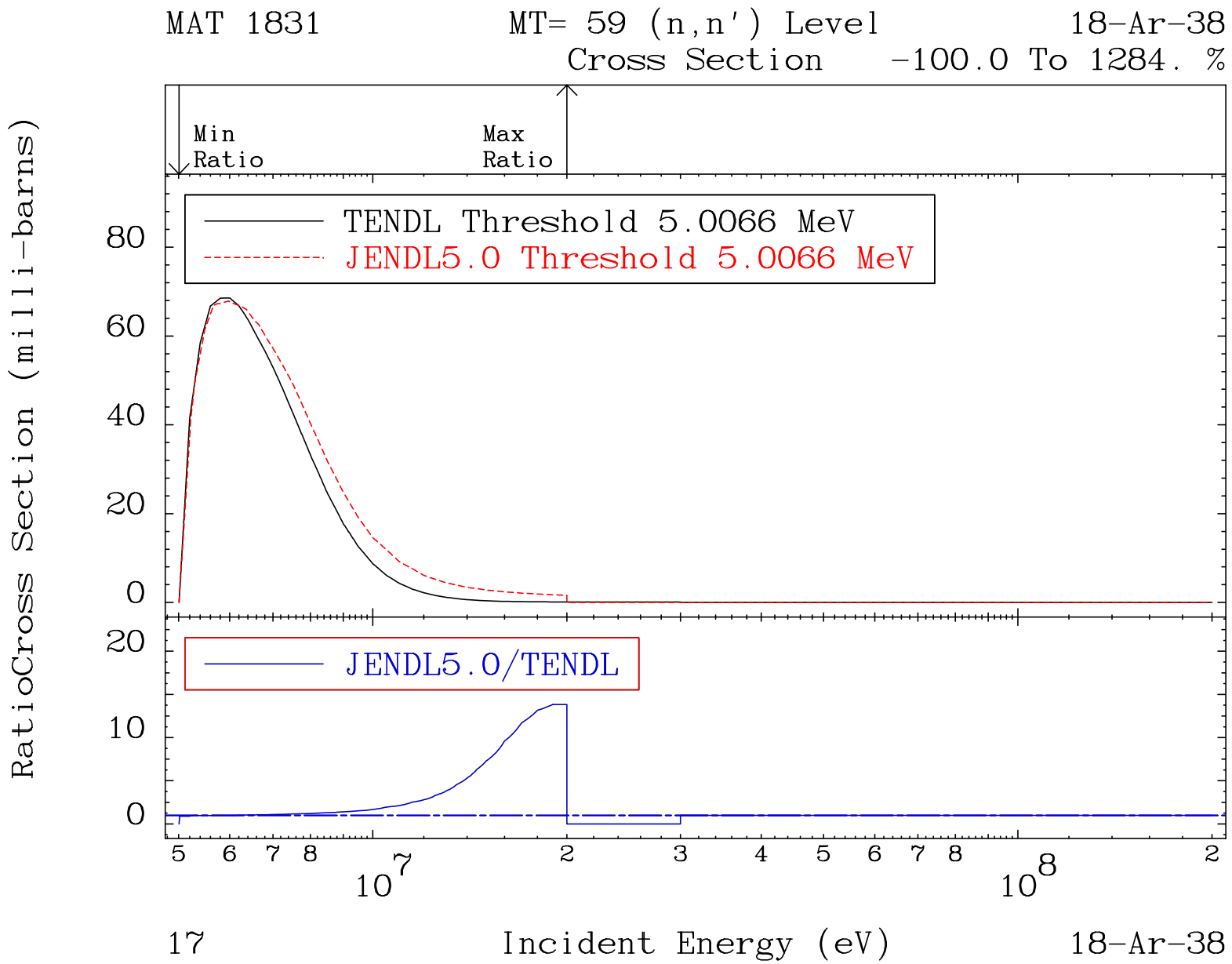

MAT 1831
MT= 54 (n,n') Level
18-Ar-38
Cross Section -100.0 To 258.7 %
Max Ratio
Min Ratio
TENDL Threshold 4.0411 MeV
JENDL5.0 Threshold 4.0411 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
2
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
12
Incident Energy (eV)
18-Ar-38

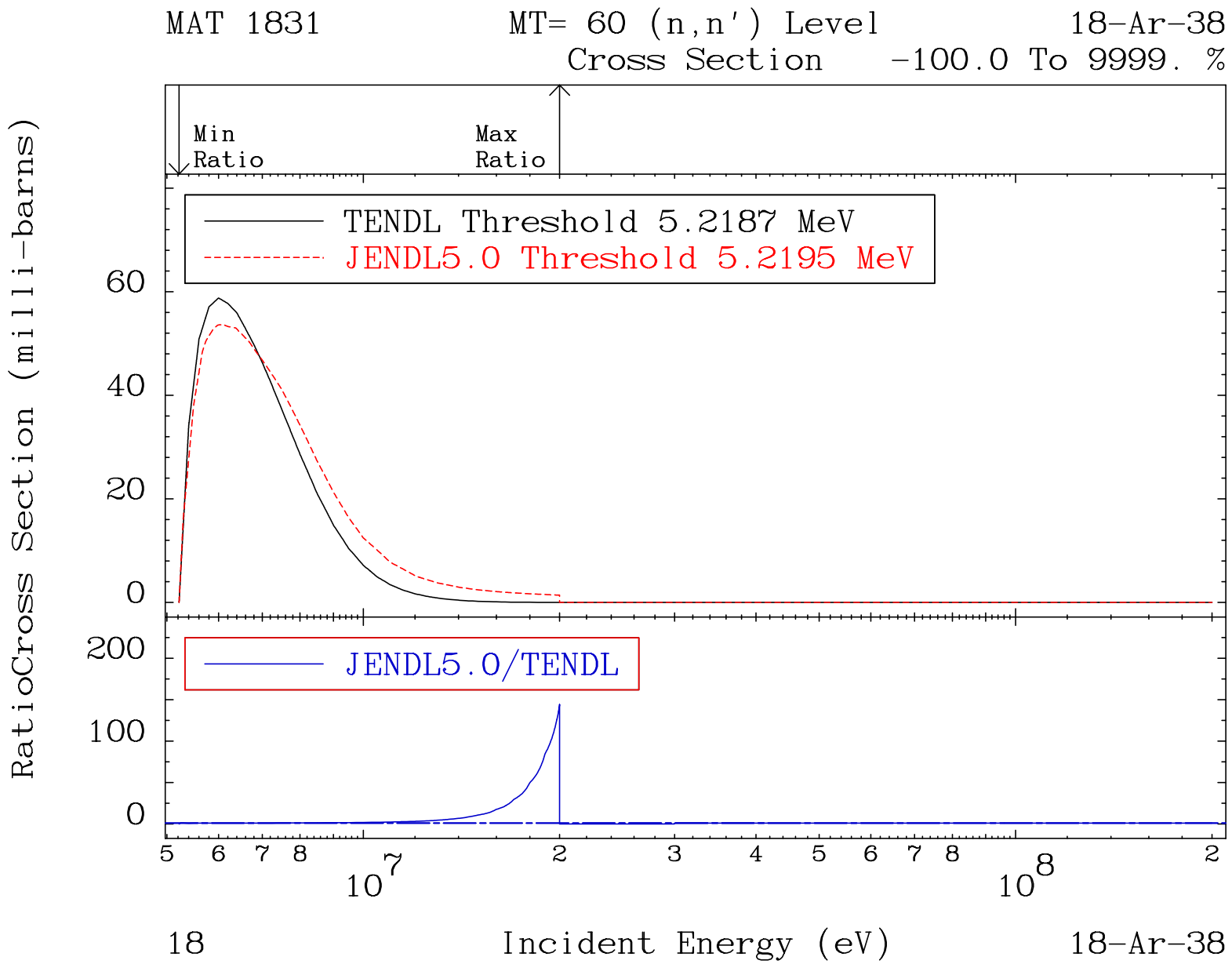

MAT 1831
MT= 55 (n,n') Level
18-Ar-38
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.5990 MeV
JENDL5.0 Threshold 4.5990 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
100
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
18-Ar-38

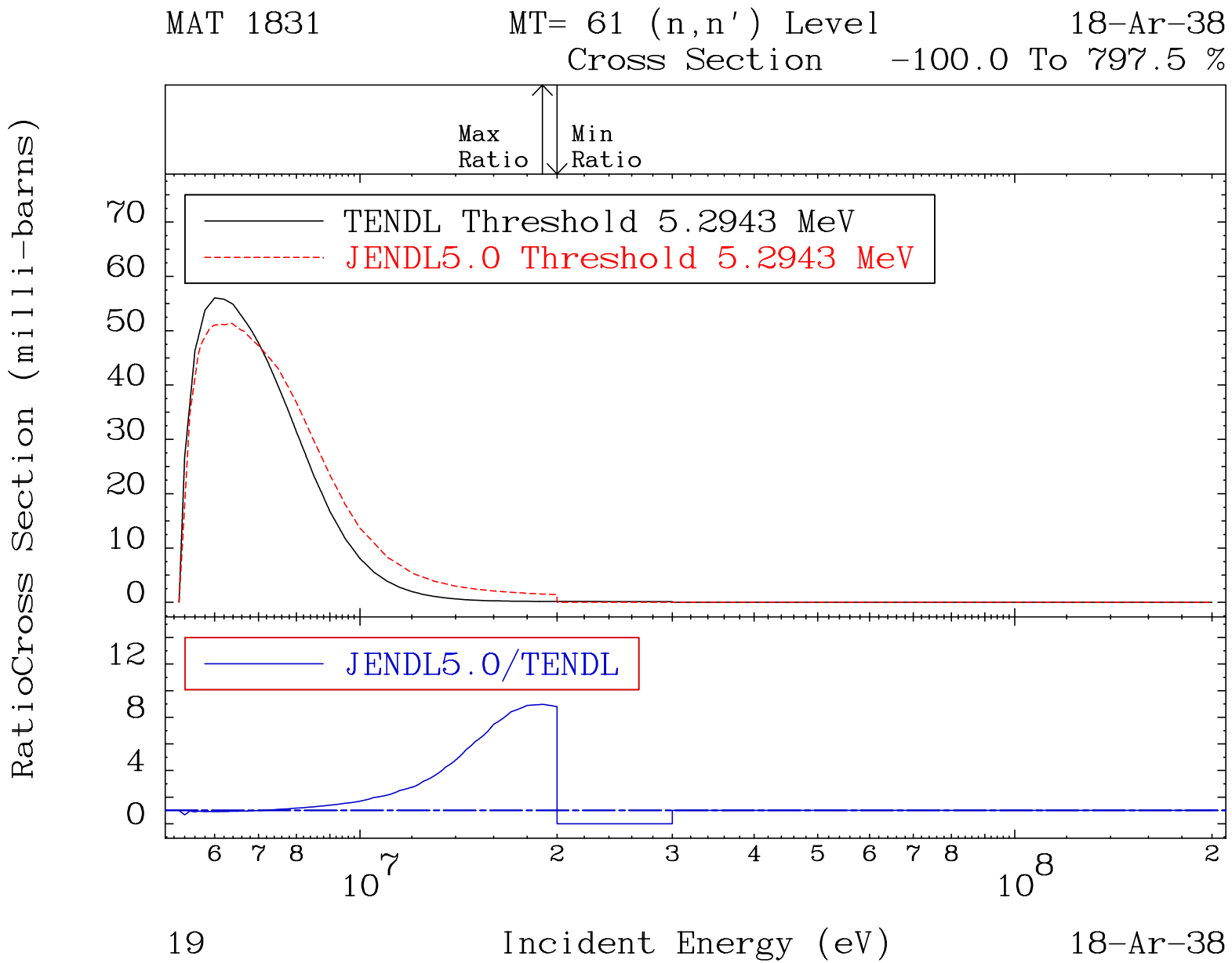

MAT 1831
MT= 56 (n,n') Level
18-Ar-38
Cross Section -100.0 To 117.0 %
Max Ratio
Min Ratio
TENDL Threshold 4.6868 MeV
JENDL5.0 Threshold 4.6868 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
3.0
2.0
1.0
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
18-Ar-38

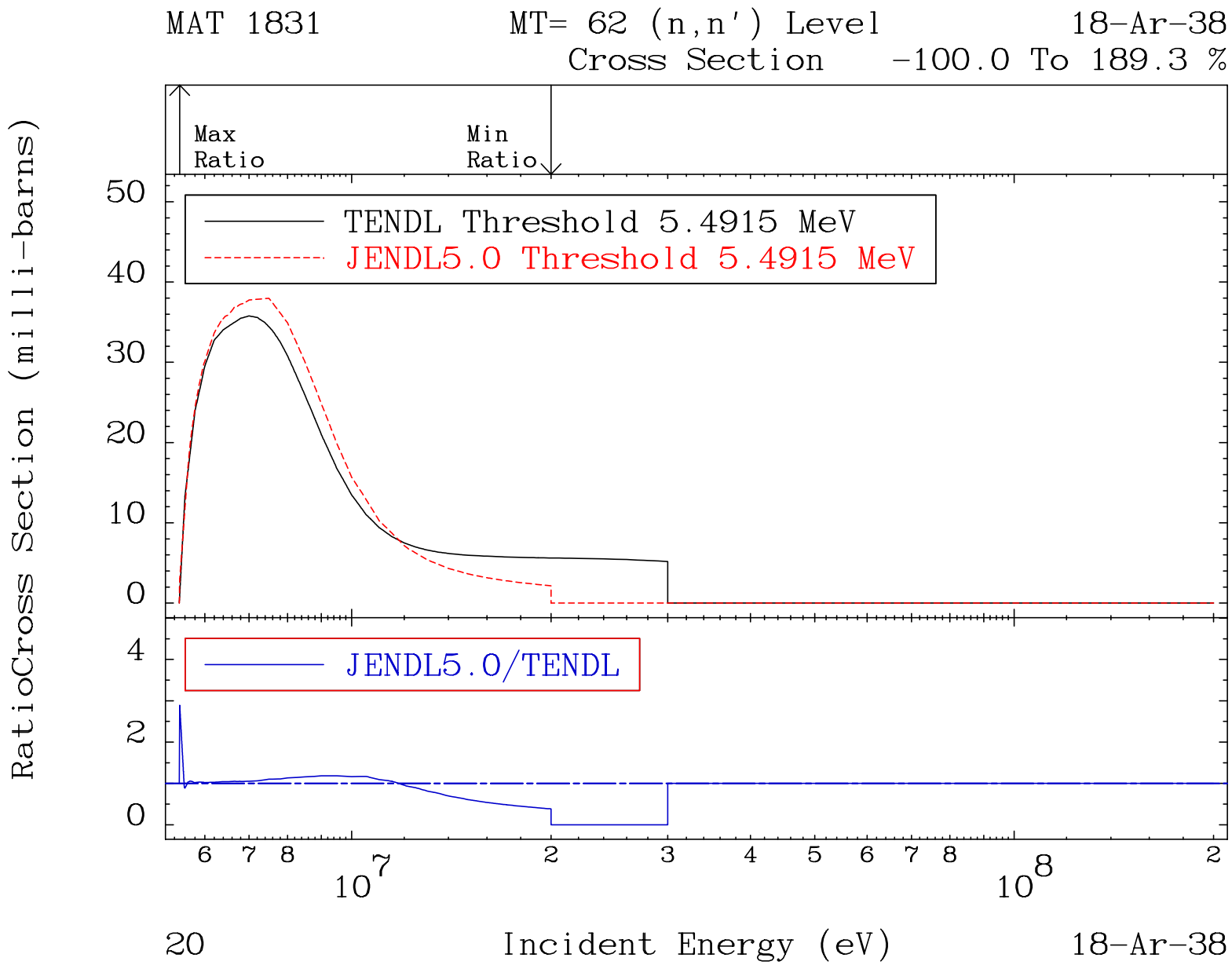

MAT 1831
MT= 57 (n,n') Level
18-Ar-38
Cross Section -100.0 To 456.1 %
Max Ratio
Min Ratio
TENDL Threshold 4.7077 MeV
JENDL5.0 Threshold 4.7077 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
8
4
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
18-Ar-38

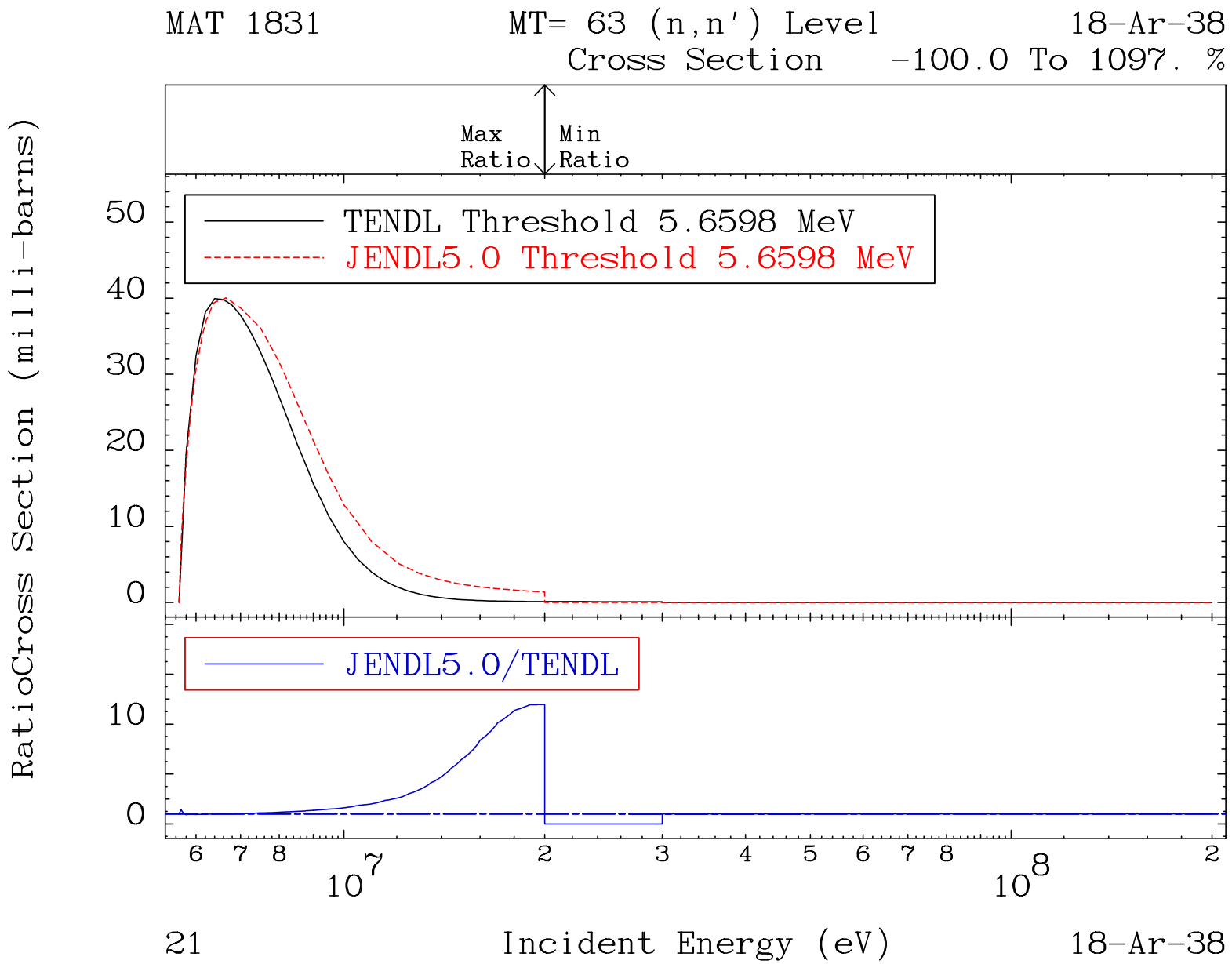

MAT 1831
MT= 58 (n,n') Level
18-Ar-38
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.8344 MeV
JENDL5.0 Threshold 4.8344 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
600
400
200
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
18-Ar-38

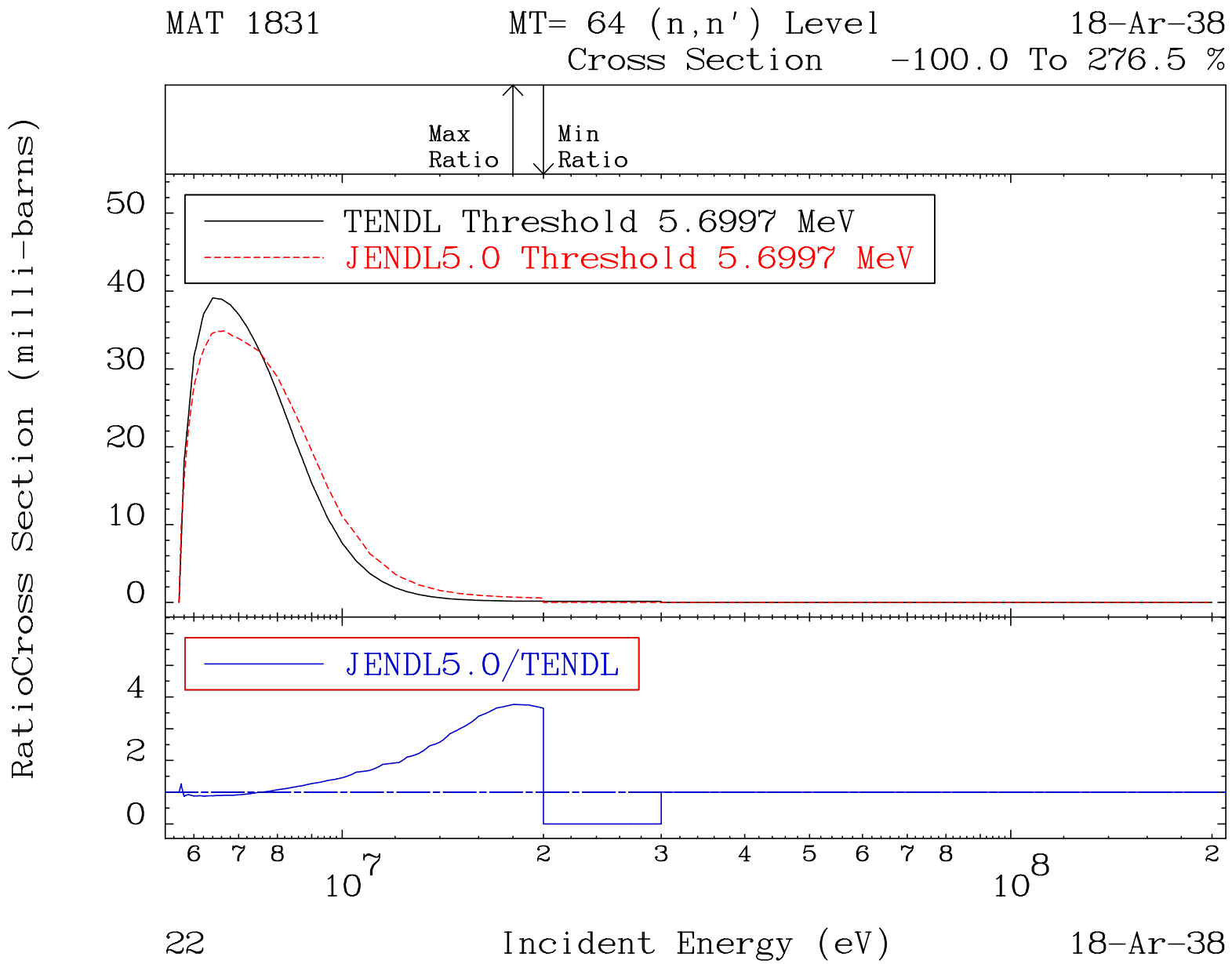

MAT 1831
MT= 59 (n,n') Level
18-Ar-38
Cross Section -100.0 To 1284. %
Min Ratio
Max Ratio
TENDL Threshold 5.0066 MeV
JENDL5.0 Threshold 5.0066 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
20
10
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
18-Ar-38

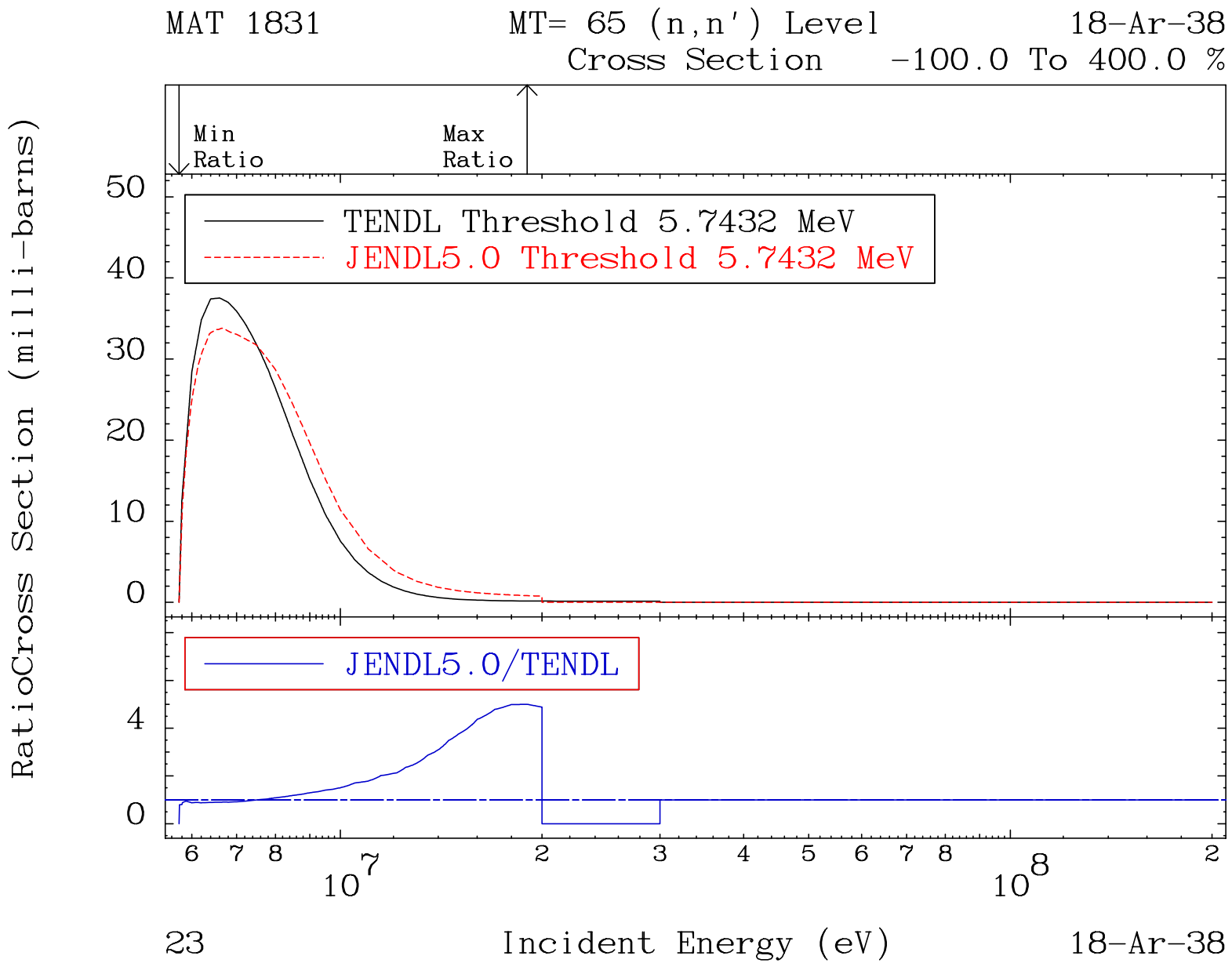

MAT 1831
MT= 60 (n,n') Level
18-Ar-38
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.2187 MeV
JENDL5.0 Threshold 5.2195 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
200
100
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
18-Ar-38

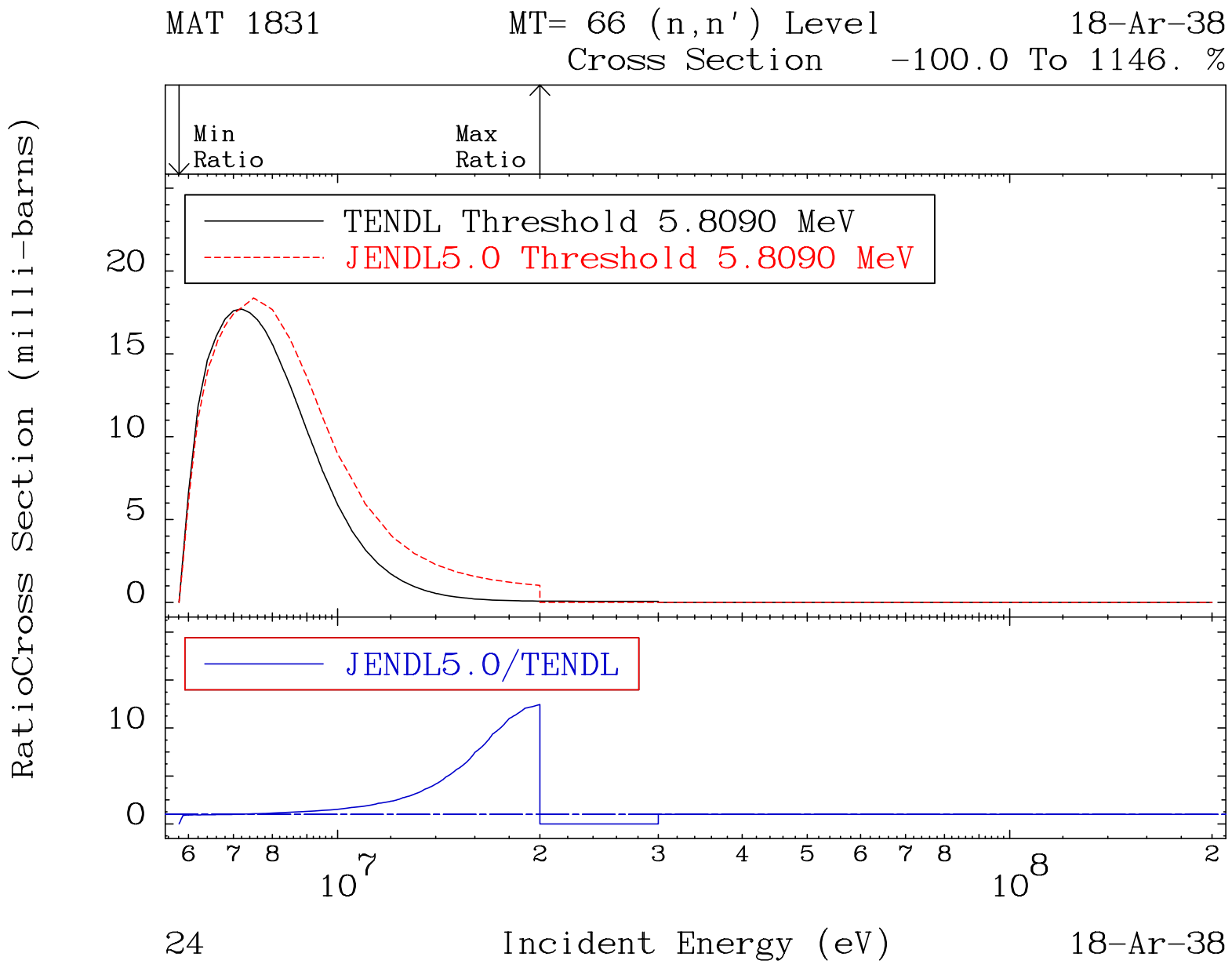

MAT 1831
MT= 61 (n,n') Level
18-Ar-38
Cross Section -100.0 To 797.5 %
Max Ratio
Min Ratio
TENDL Threshold 5.2943 MeV
JENDL5.0 Threshold 5.2943 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
19
18-Ar-38

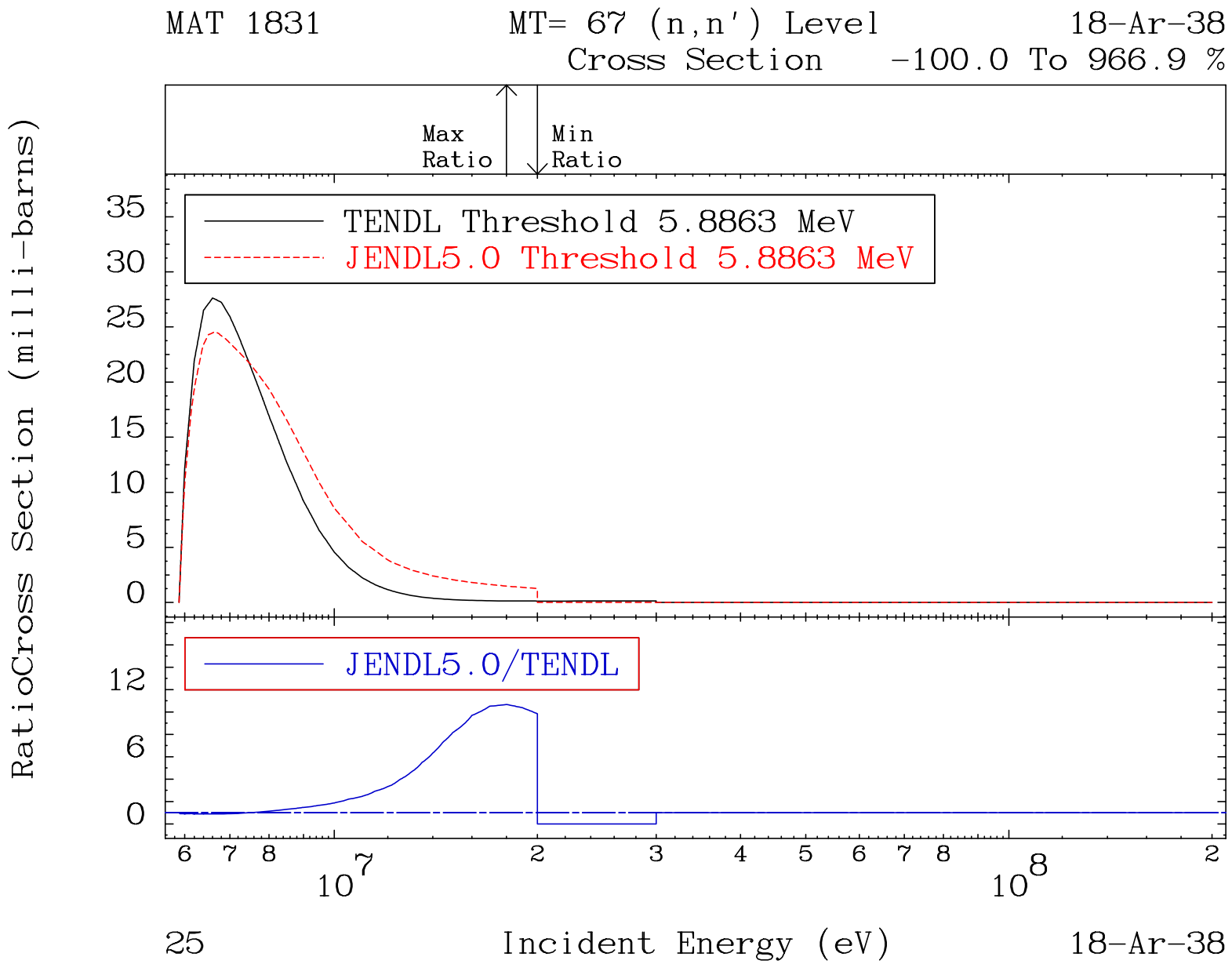

MAT 1831
MT= 62 (n,n') Level
18-Ar-38
Cross Section -100.0 To 189.3 %
Max Ratio
Min Ratio
TENDL Threshold 5.4915 MeV
JENDL5.0 Threshold 5.4915 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
4
2
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
18-Ar-38

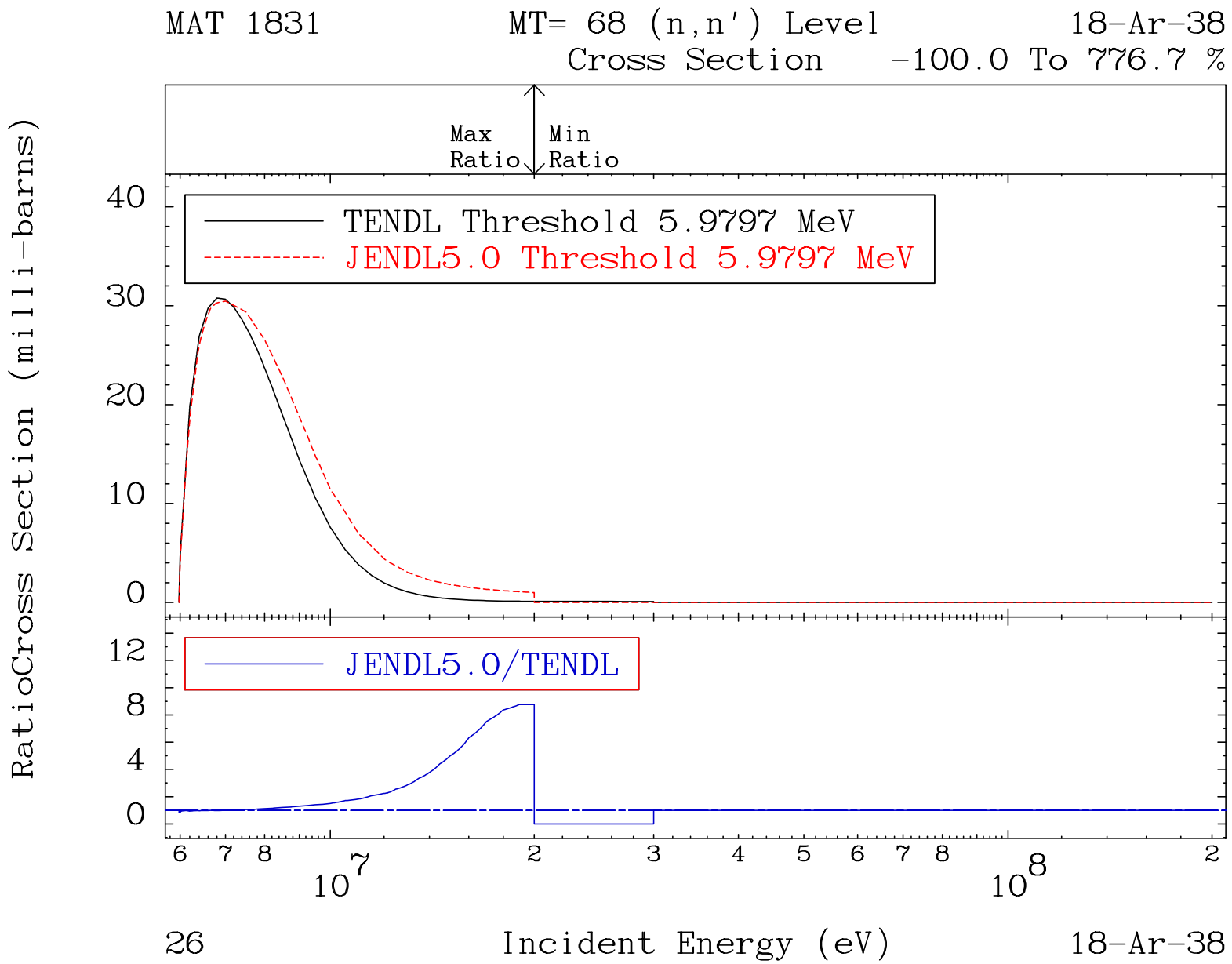

MAT 1831
MT= 63 (n,n') Level
18-Ar-38
Cross Section -100.0 To 1097. %
Max Ratio
Min Ratio
TENDL Threshold 5.6598 MeV
JENDL5.0 Threshold 5.6598 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
10
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
18-Ar-38

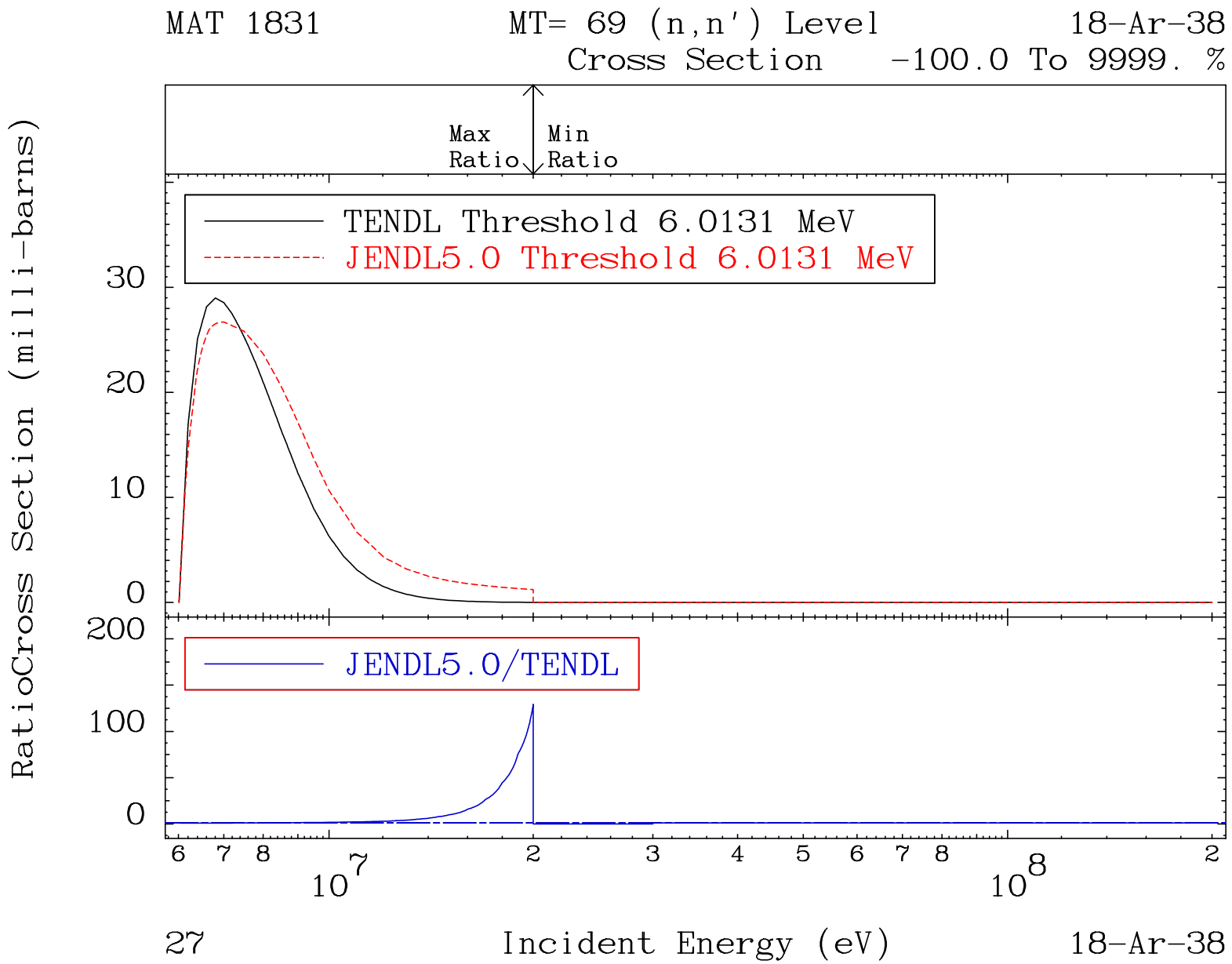

MAT 1831
MT= 64 (n,n') Level
18-Ar-38
Cross Section -100.0 To 276.5 %
Max Ratio
Min Ratio
TENDL Threshold 5.6997 MeV
JENDL5.0 Threshold 5.6997 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
4
2
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
18-Ar-38

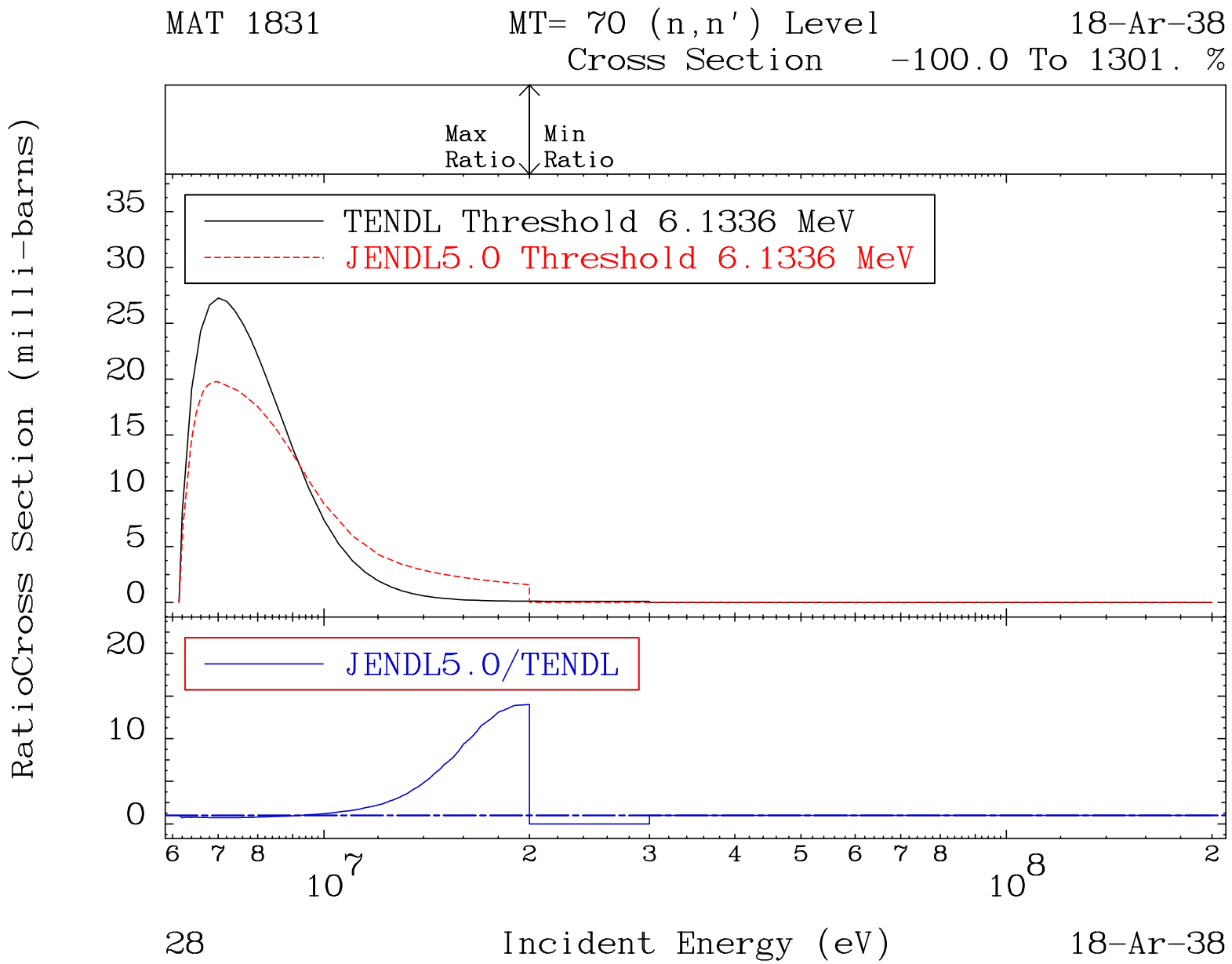

MAT 1831
MT= 65 (n,n') Level
18-Ar-38
Cross Section -100.0 To 400.0 %
Min Ratio
Max Ratio
TENDL Threshold 5.7432 MeV
JENDL5.0 Threshold 5.7432 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
4
0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
18-Ar-38

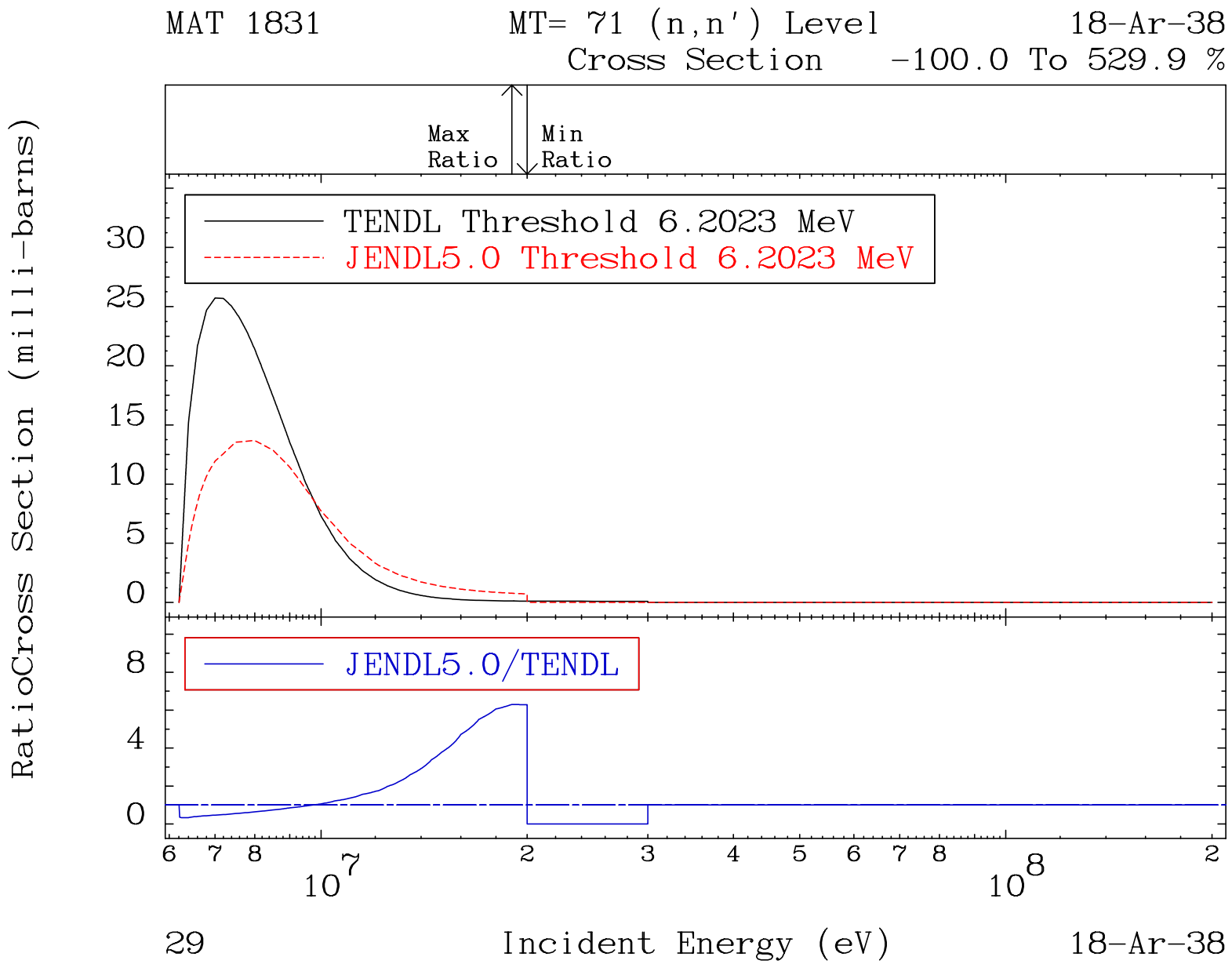

MAT 1831
MT= 66 (n,n') Level
18-Ar-38
Cross Section -100.0 To 1146. %
Min Ratio
Max Ratio
TENDL Threshold 5.8090 MeV
JENDL5.0 Threshold 5.8090 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
10
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
18-Ar-38

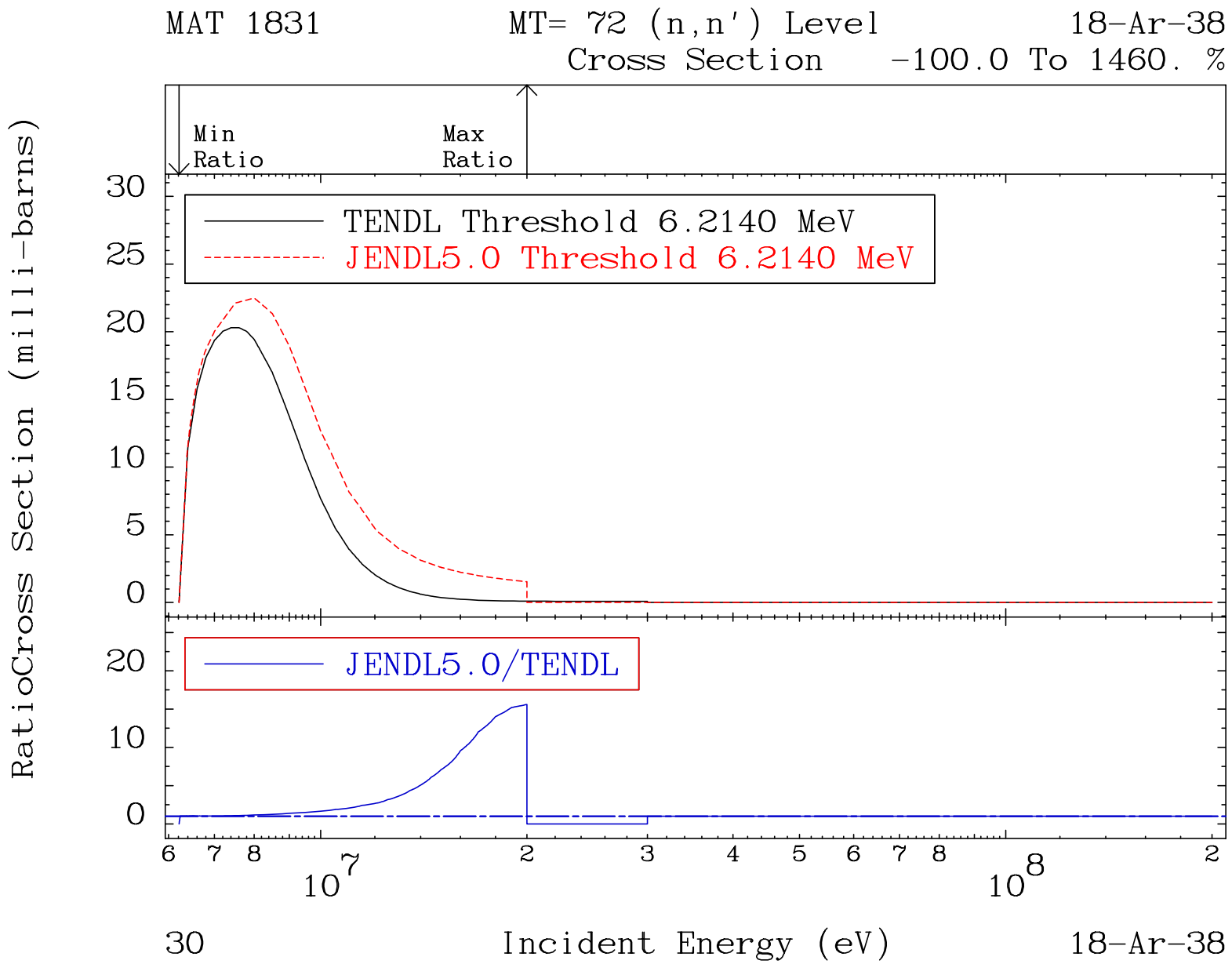

MAT 1831
MT= 67 (n,n') Level
18-Ar-38
Cross Section -100.0 To 966.9 %
Max Ratio
Min Ratio
TENDL Threshold 5.8863 MeV
JENDL5.0 Threshold 5.8863 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
12
6
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
18-Ar-38

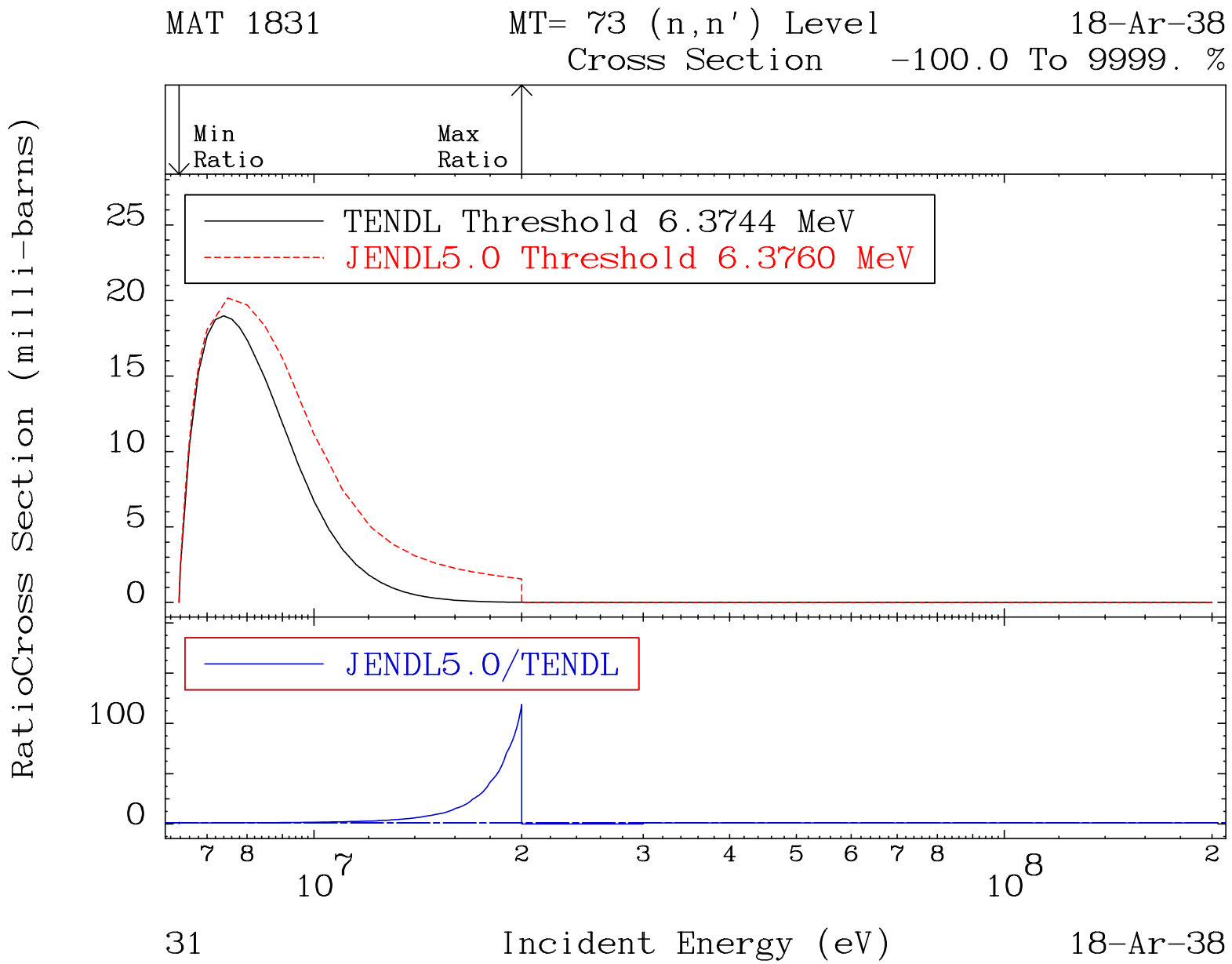

MAT 1831
MT= 68 (n,n') Level
18-Ar-38
Cross Section -100.0 To 776.7 %
Max Ratio
Min Ratio
TENDL Threshold 5.9797 MeV
JENDL5.0 Threshold 5.9797 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
12
8
4
0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
18-Ar-38

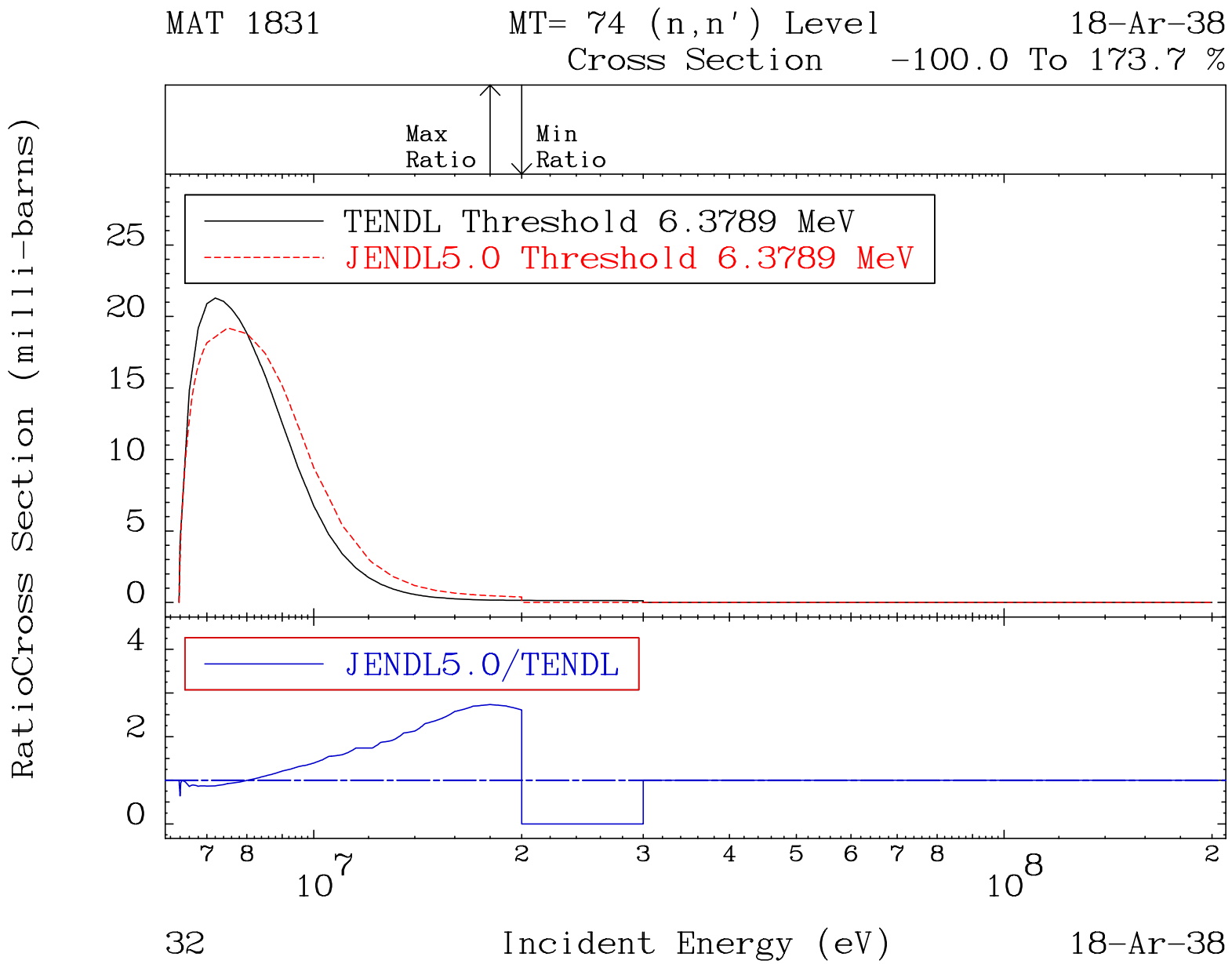

MAT 1831
MT= 69 (n,n') Level
18-Ar-38
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.0131 MeV
JENDL5.0 Threshold 6.0131 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
200
100
0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
18-Ar-38

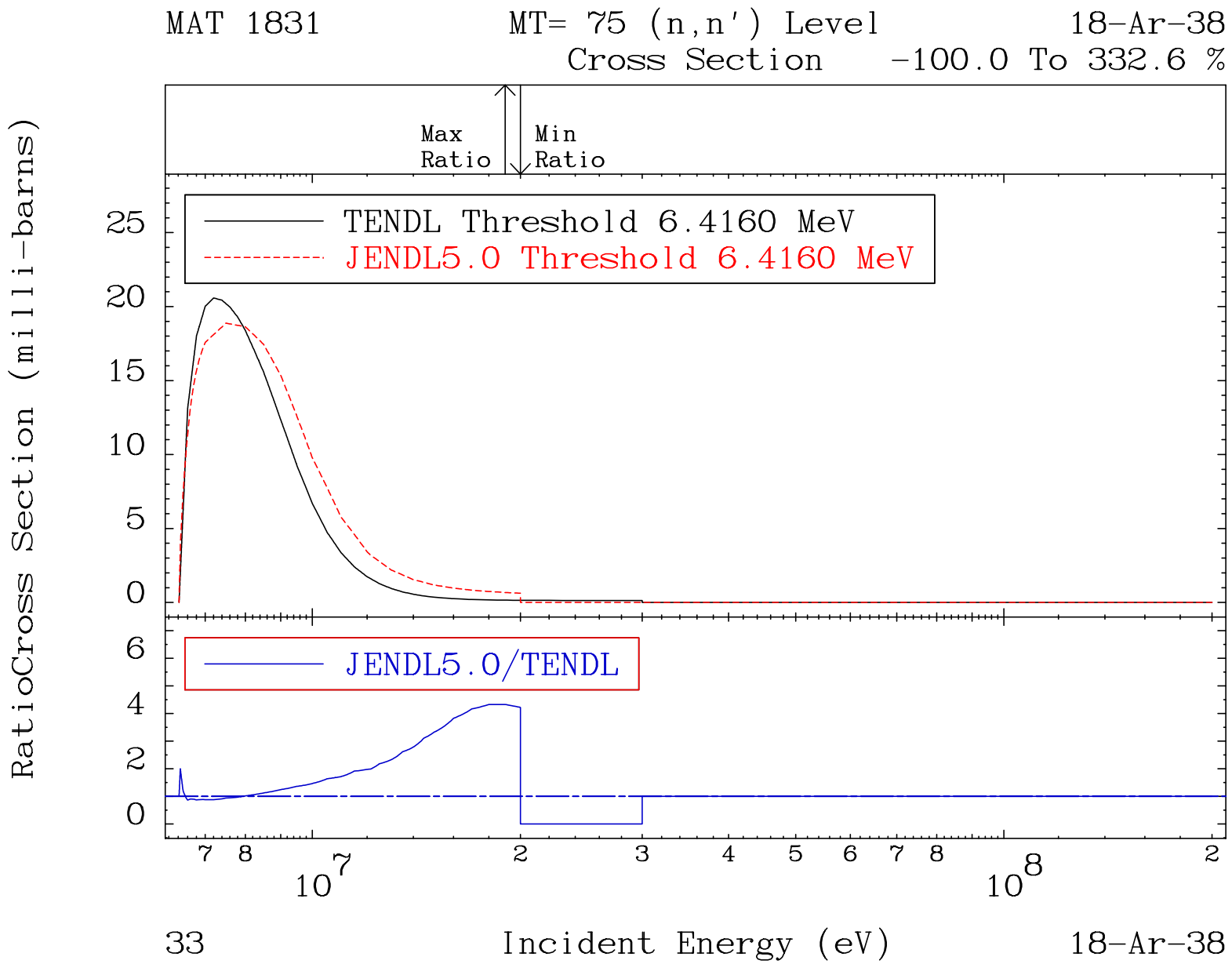

MAT 1831
MT= 70 (n,n') Level
18-Ar-38
Cross Section -100.0 To 1301. %
Max Ratio
Min Ratio
TENDL Threshold 6.1336 MeV
JENDL5.0 Threshold 6.1336 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
28
18-Ar-38

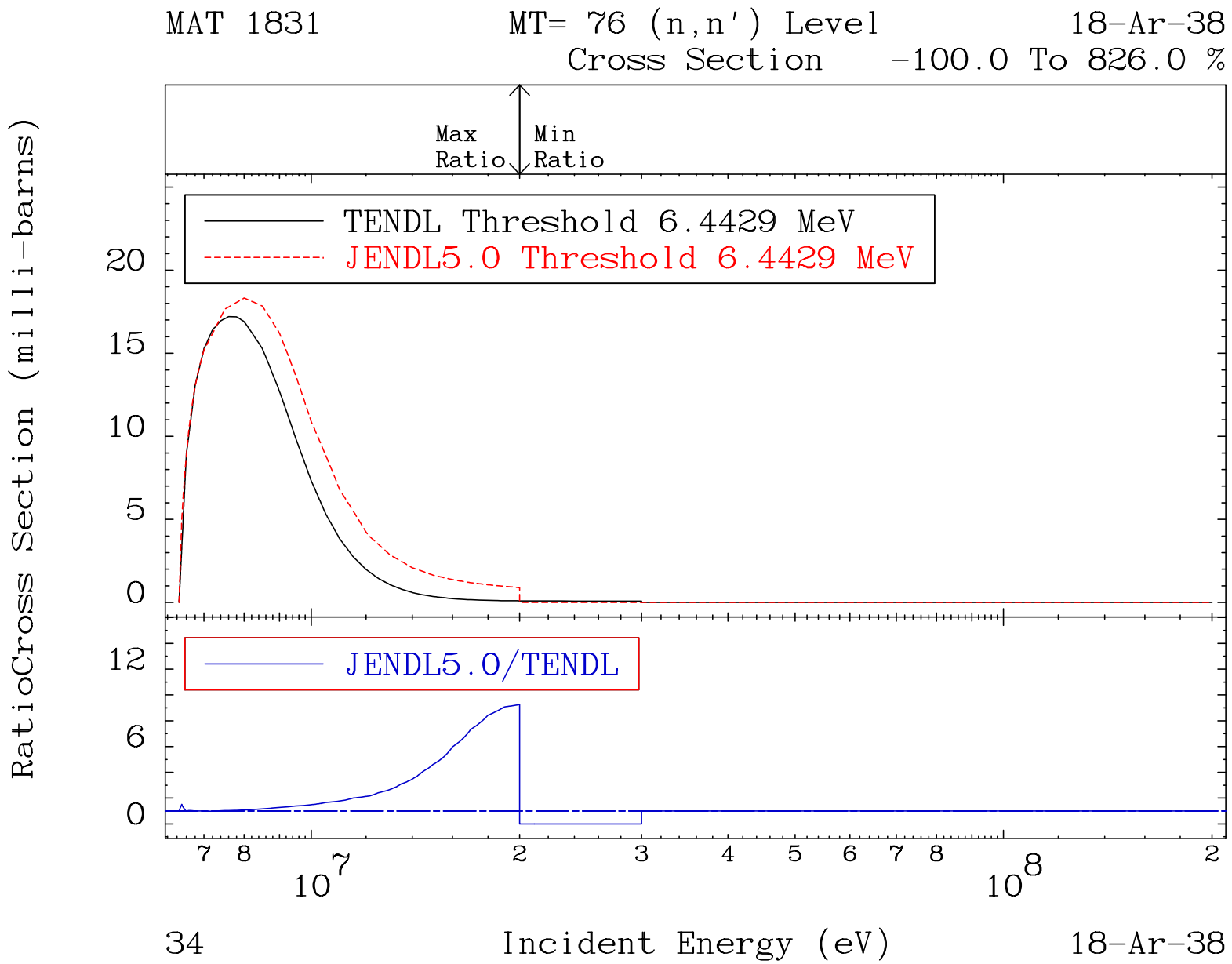

MAT 1831
MT= 71 (n,n') Level
18-Ar-38
Cross Section -100.0 To 529.9 %
Max Ratio
Min Ratio
TENDL Threshold 6.2023 MeV
JENDL5.0 Threshold 6.2023 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
8
4
0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
18-Ar-38

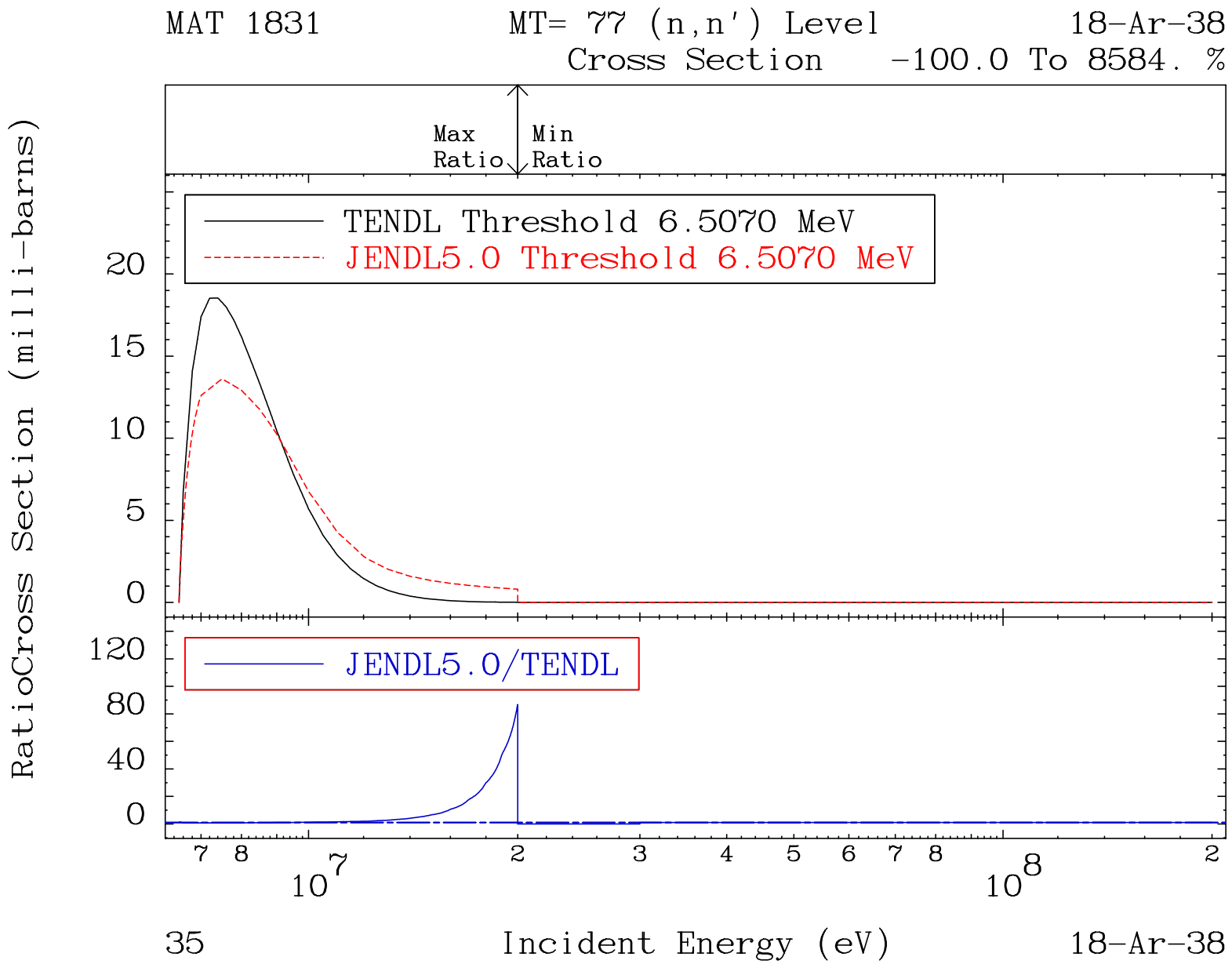

MAT 1831
MT= 72 (n,n') Level
18-Ar-38
Cross Section -100.0 To 1460. %
Min Ratio
Max Ratio
TENDL Threshold 6.2140 MeV
JENDL5.0 Threshold 6.2140 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
30
18-Ar-38

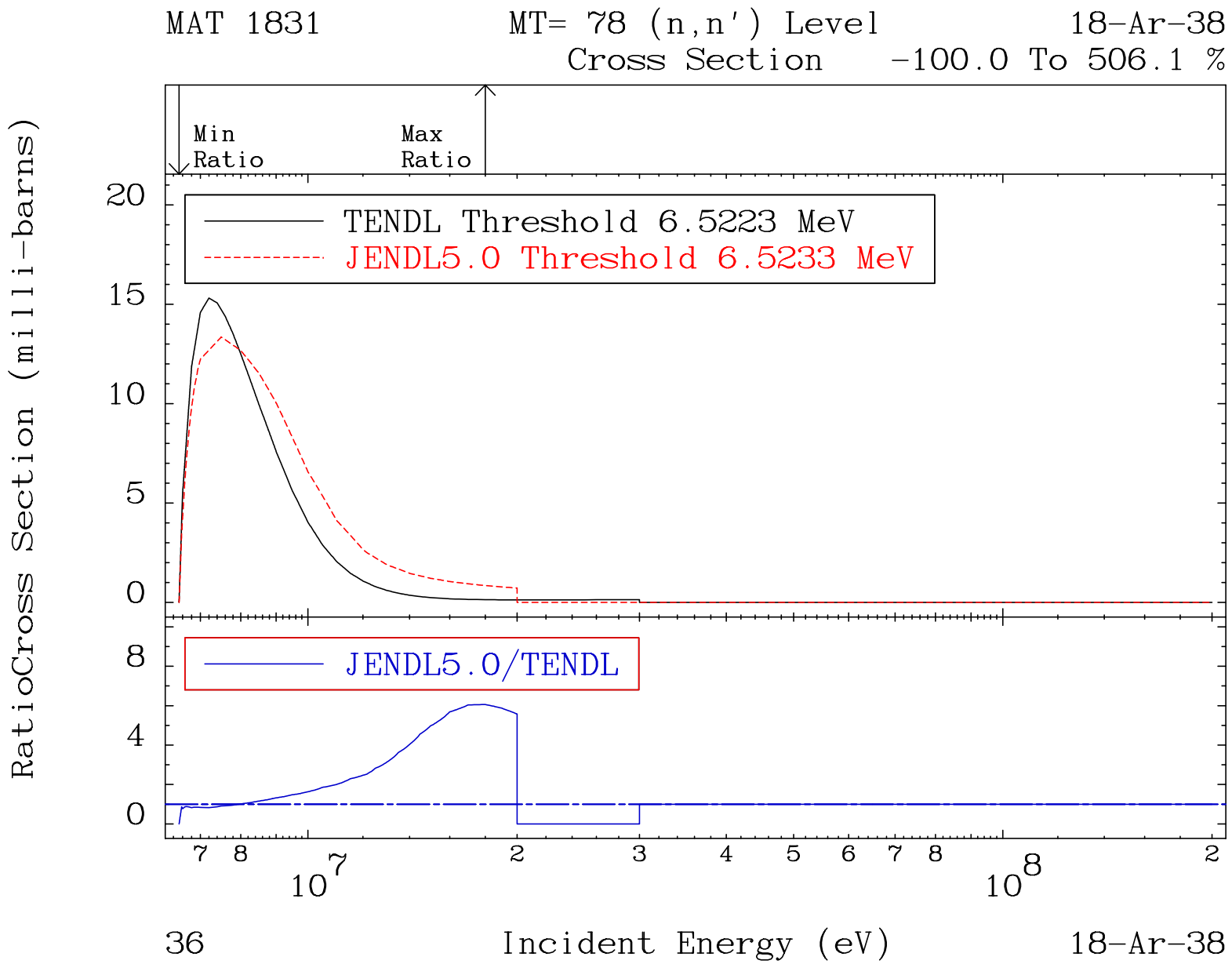

MAT 1831
MT= 73 (n,n') Level
18-Ar-38
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.3744 MeV
JENDL5.0 Threshold 6.3760 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
100
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
18-Ar-38

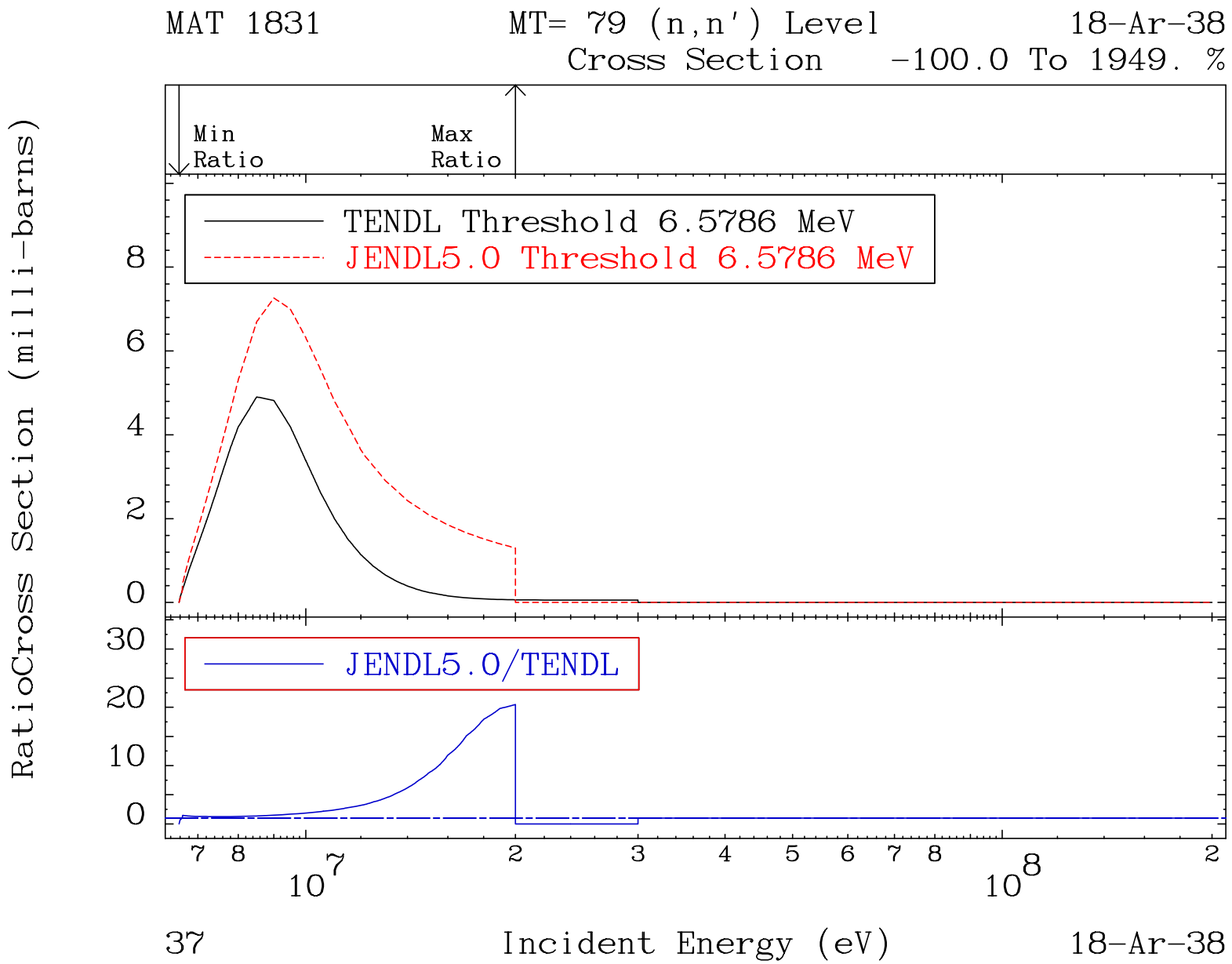

MAT 1831
MT= 74 (n,n') Level
18-Ar-38
Cross Section -100.0 To 173.7 %
Max Ratio
Min Ratio
TENDL Threshold 6.3789 MeV
JENDL5.0 Threshold 6.3789 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
4
2
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
18-Ar-38

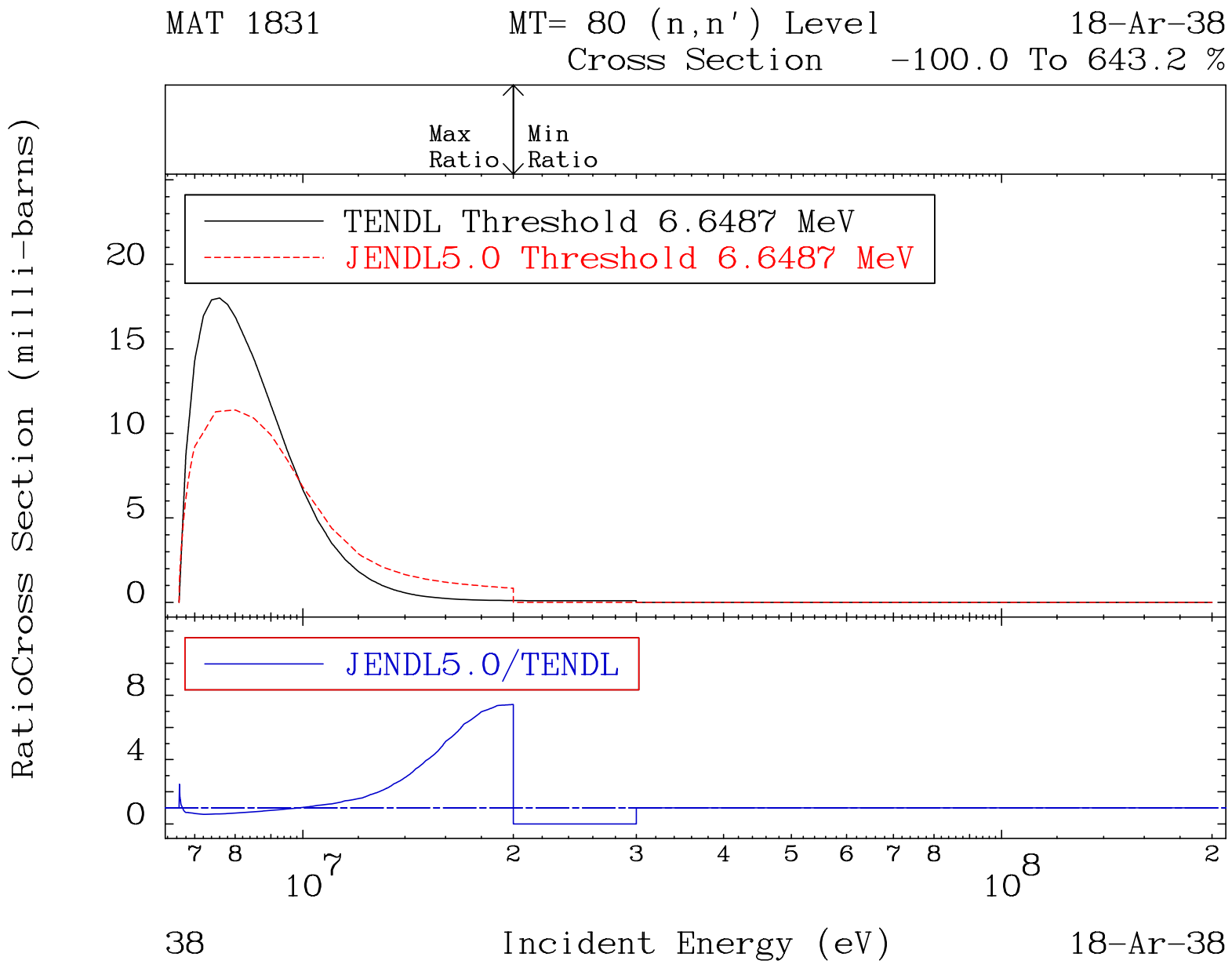

MAT 1831
MT= 75 (n,n') Level
18-Ar-38
Cross Section -100.0 To 332.6 %
Max Ratio
Min Ratio
TENDL Threshold 6.4160 MeV
JENDL5.0 Threshold 6.4160 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
33
18-Ar-38

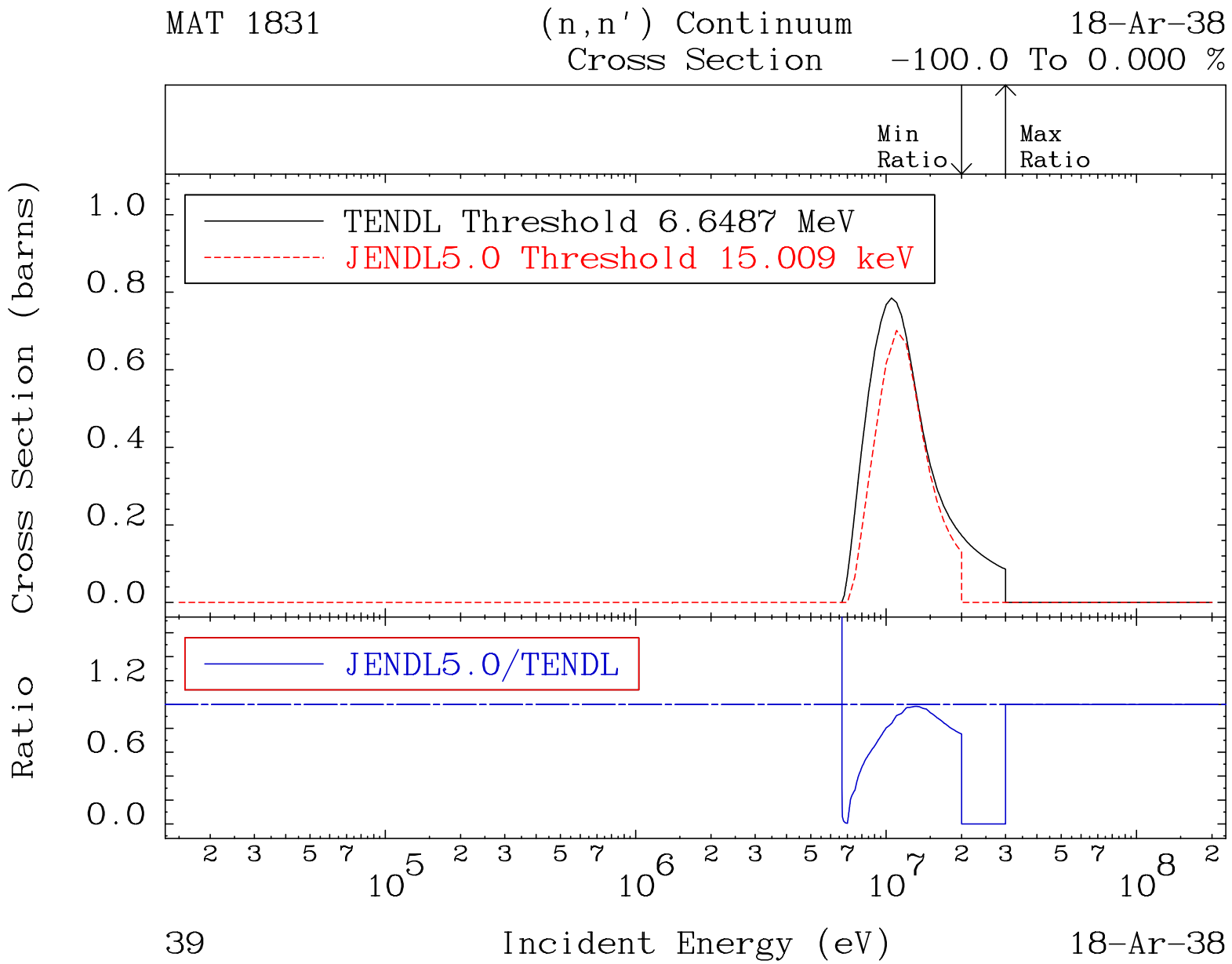

MAT 1831
MT= 76 (n,n') Level
18-Ar-38
Cross Section -100.0 To 826.0 %
Max Ratio
Min Ratio
TENDL Threshold 6.4429 MeV
JENDL5.0 Threshold 6.4429 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
12
6
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
18-Ar-38

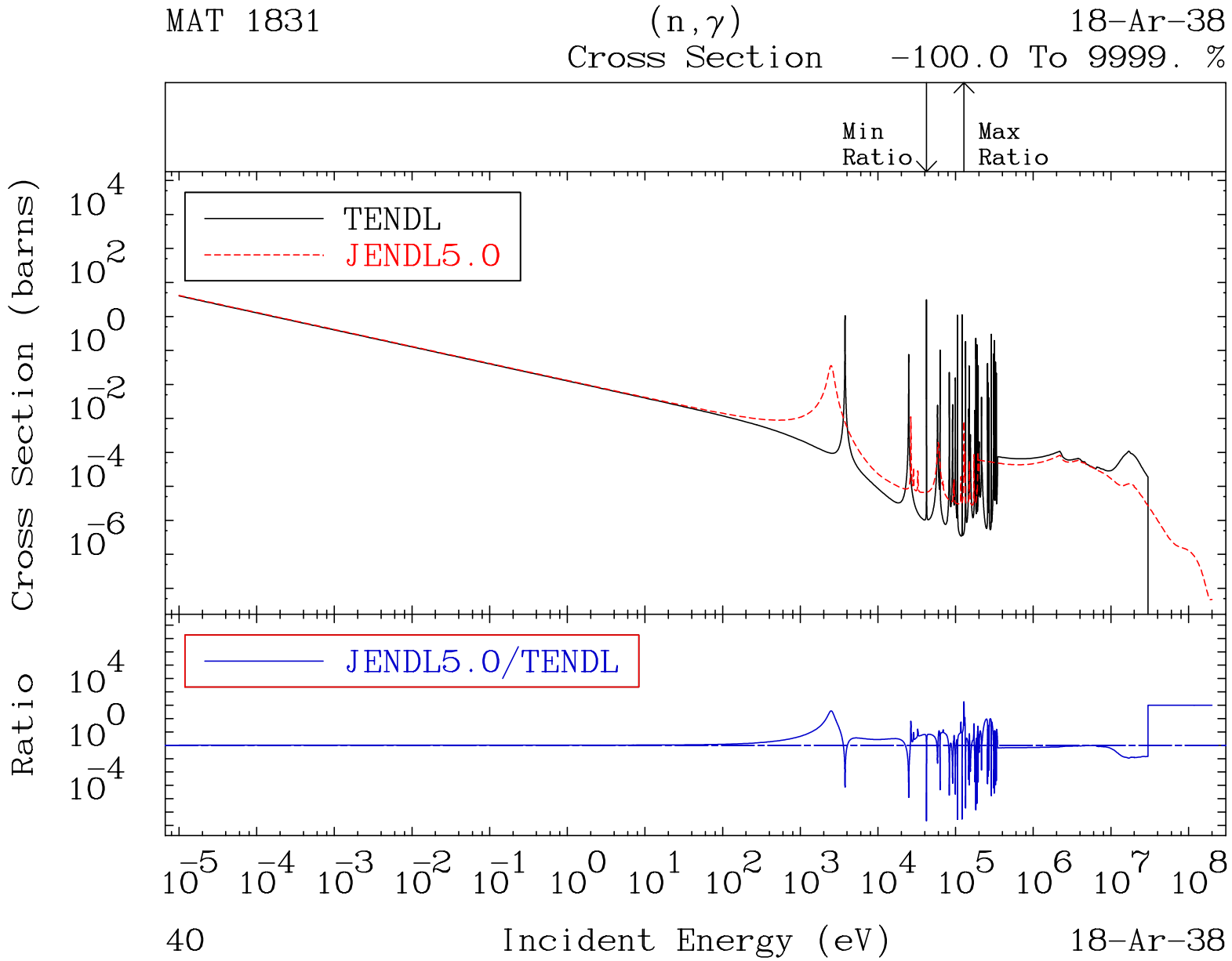

MAT 1831
MT= 77 (n,n') Level
18-Ar-38
Cross Section -100.0 To 8584. %
Max Ratio
Min Ratio
TENDL Threshold 6.5070 MeV
JENDL5.0 Threshold 6.5070 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
120
80
40
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
18-Ar-38

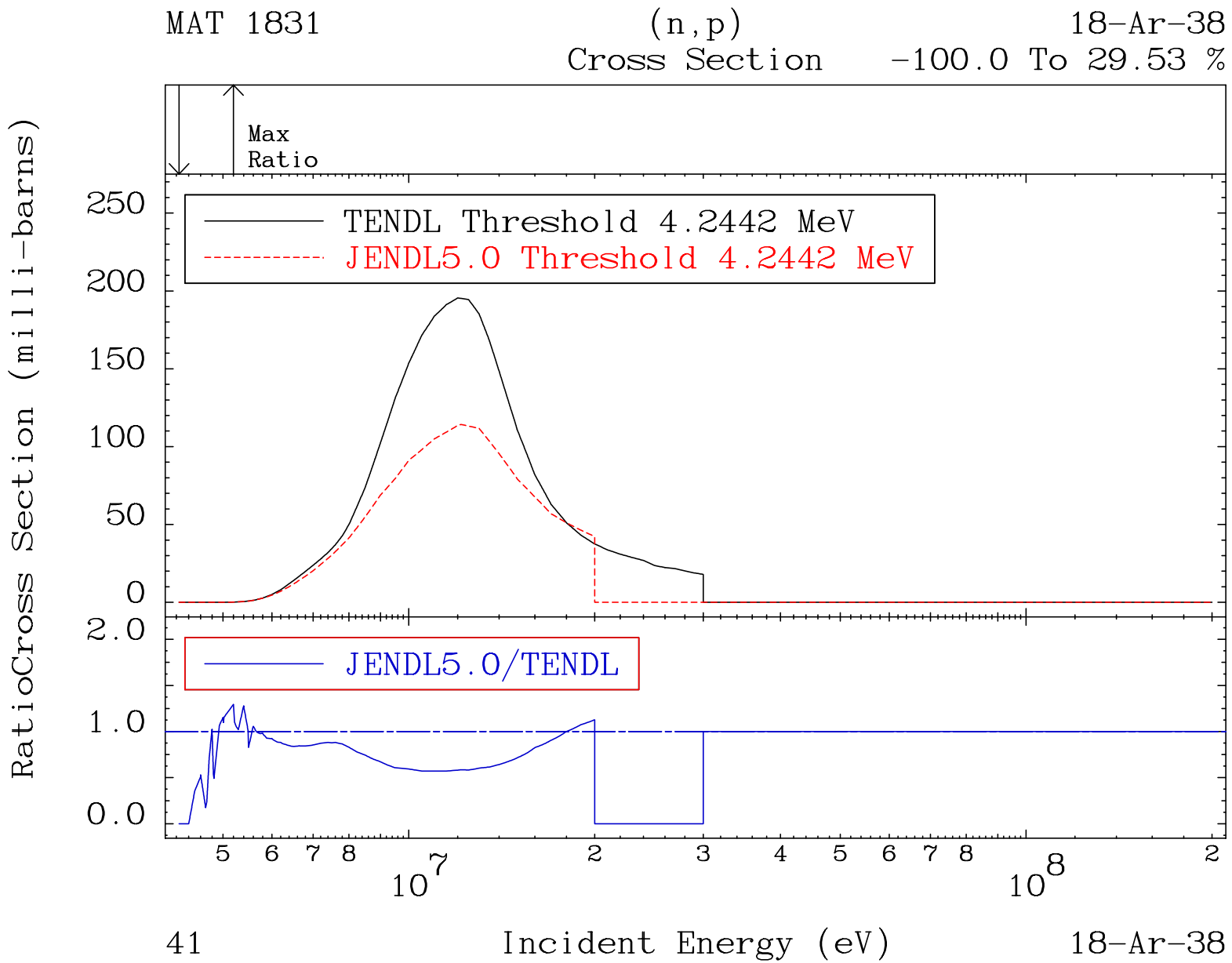

MAT 1831
MT= 78 (n,n') Level
18-Ar-38
Cross Section -100.0 To 506.1 %
Min Ratio
Max Ratio
TENDL Threshold 6.5223 MeV
JENDL5.0 Threshold 6.5233 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
36
18-Ar-38

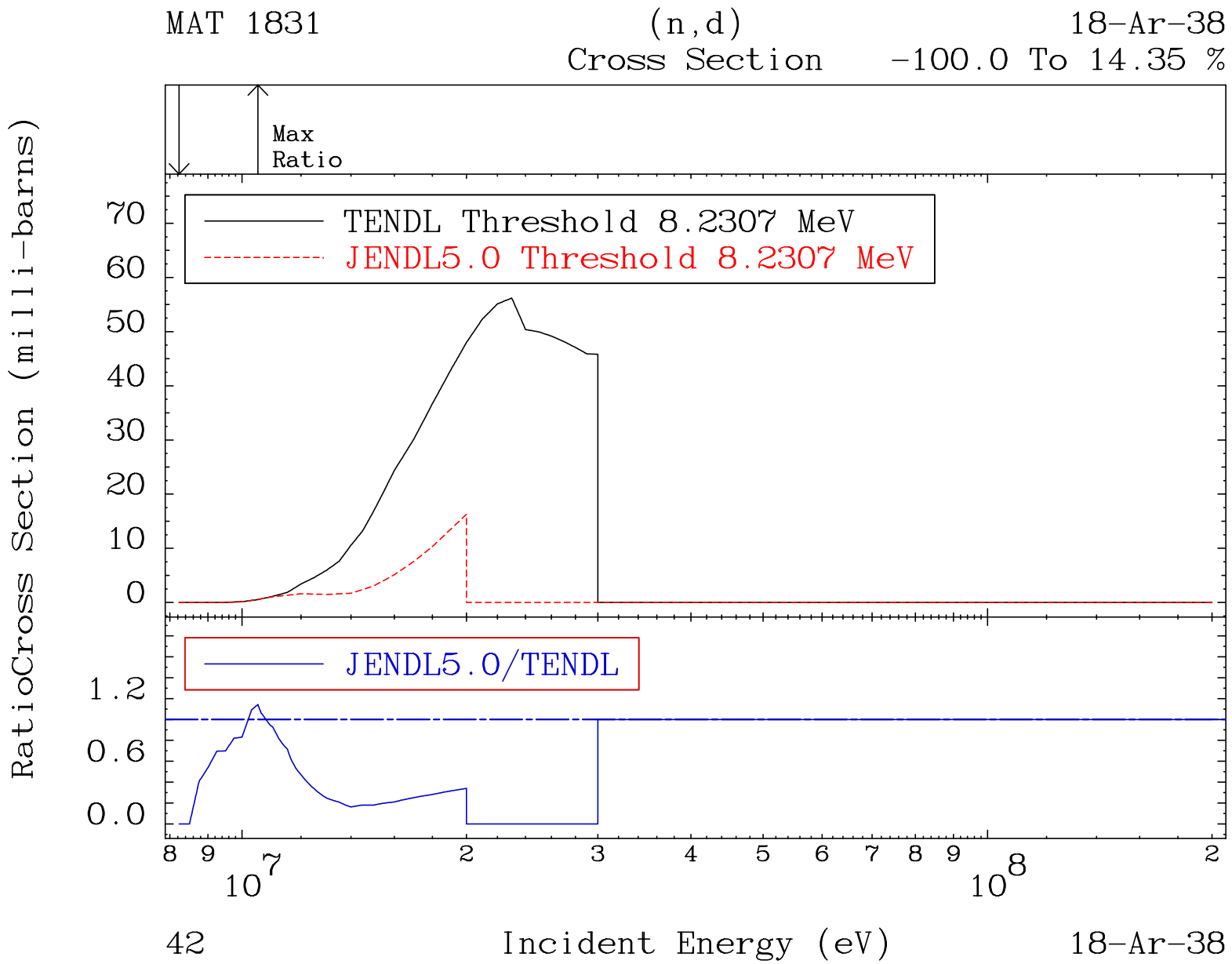

MAT 1831
MT= 79 (n,n') Level
18-Ar-38
Cross Section -100.0 To 1949. %
Min Ratio
Max Ratio
TENDL Threshold 6.5786 MeV
JENDL5.0 Threshold 6.5786 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
37
18-Ar-38

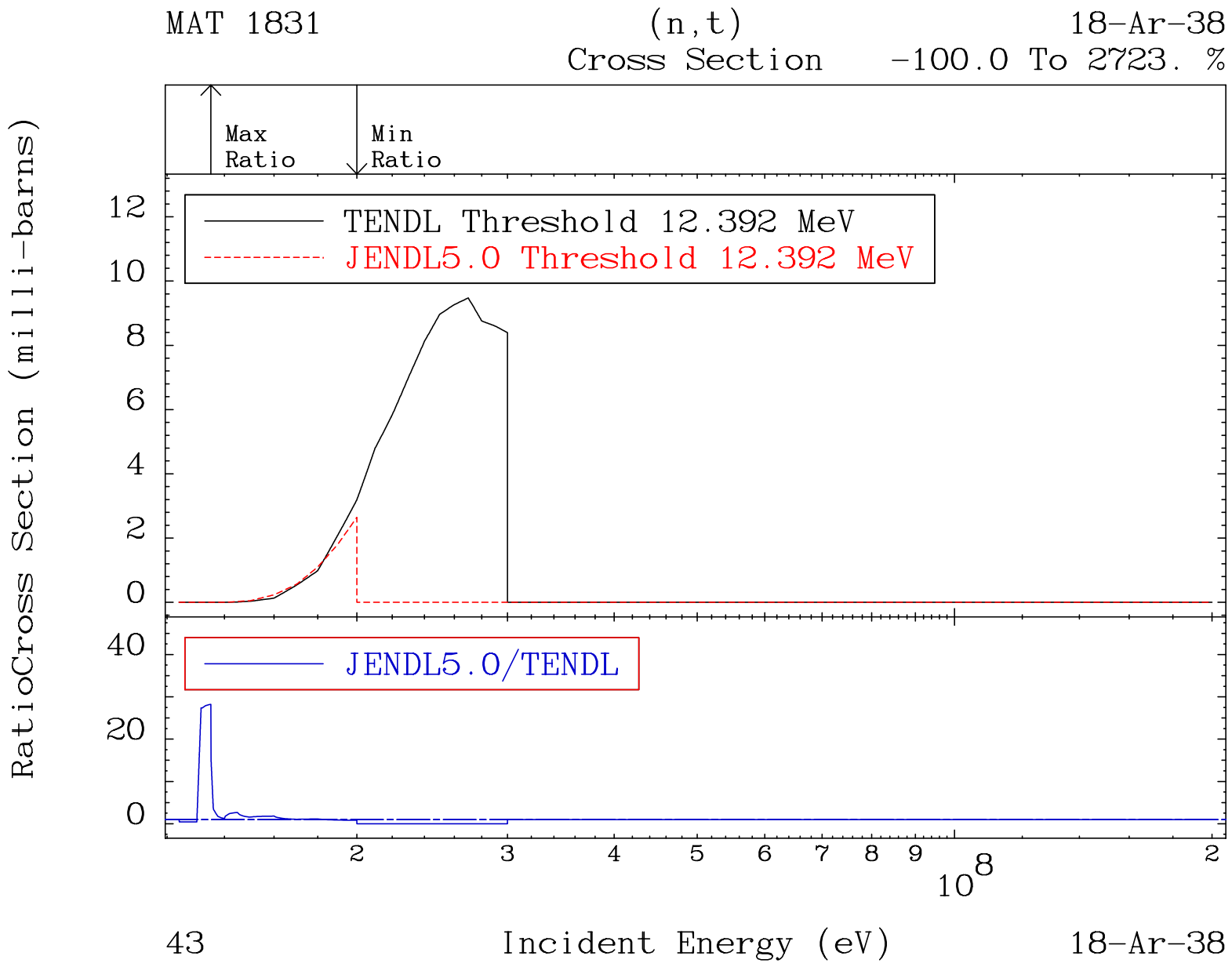

MAT 1831
MT= 80 (n,n') Level
18-Ar-38
Cross Section -100.0 To 643.2 %
Max Ratio
Min Ratio
TENDL Threshold 6.6487 MeV
JENDL5.0 Threshold 6.6487 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
38
18-Ar-38

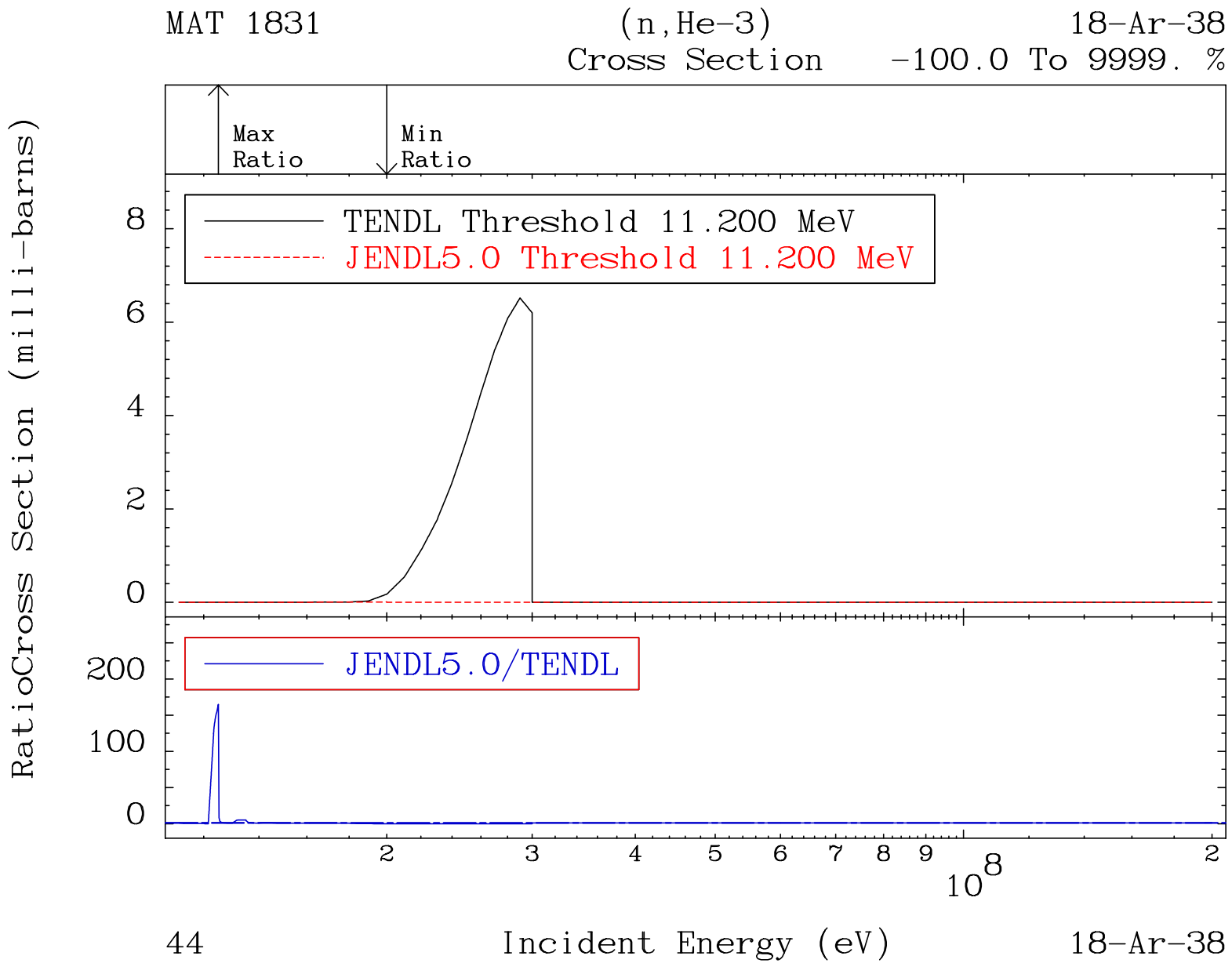

MAT 1831
(n,n') Continuum
Cross Section
18-Ar-38
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 6.6487 MeV
JENDL5.0 Threshold 15.009 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
1.2
0.6
0.0
2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
39
Incident Energy (eV)
18-Ar-38

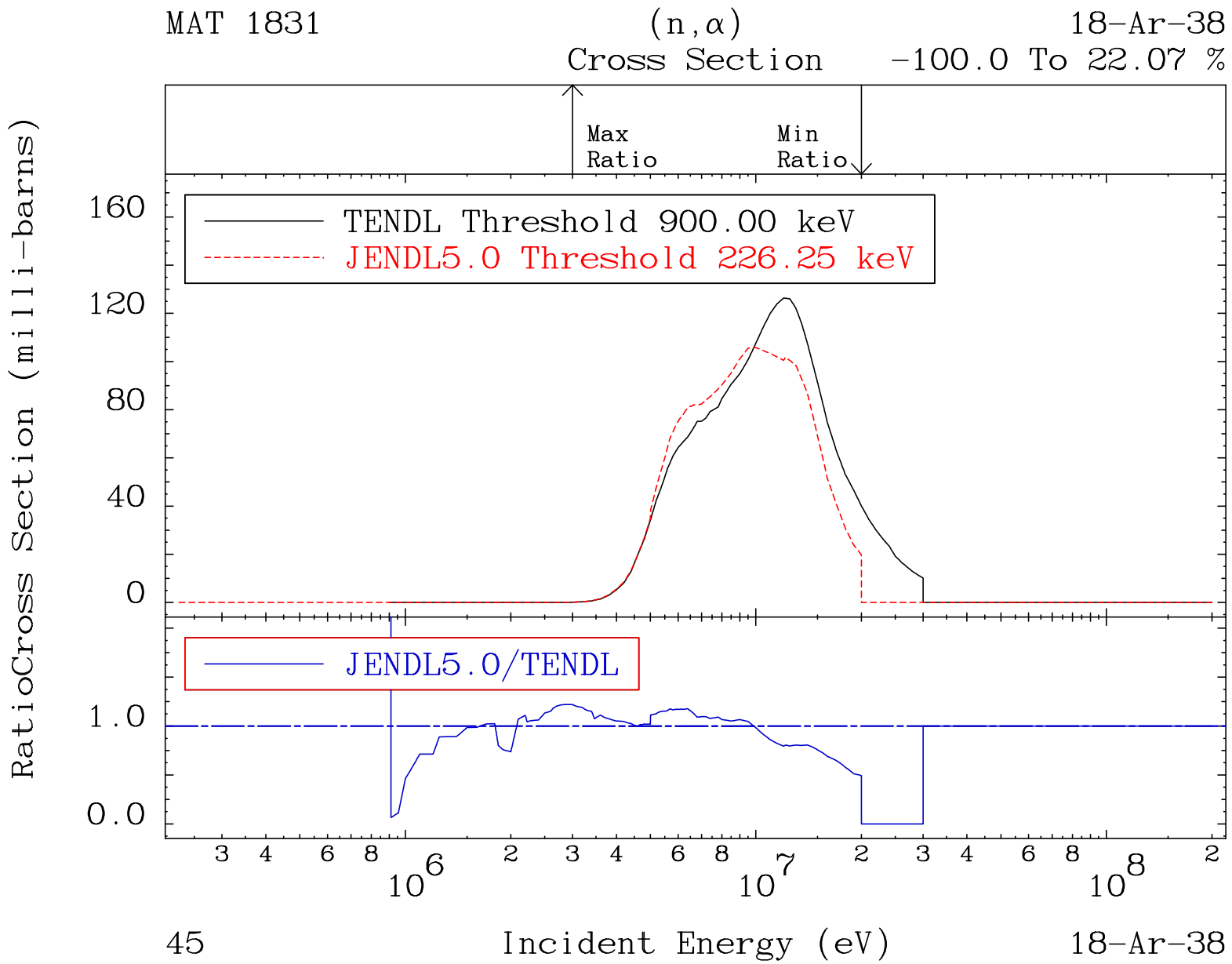

MAT 1831
(n,γ)
Cross Section
18-Ar-38
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
40
18-Ar-38

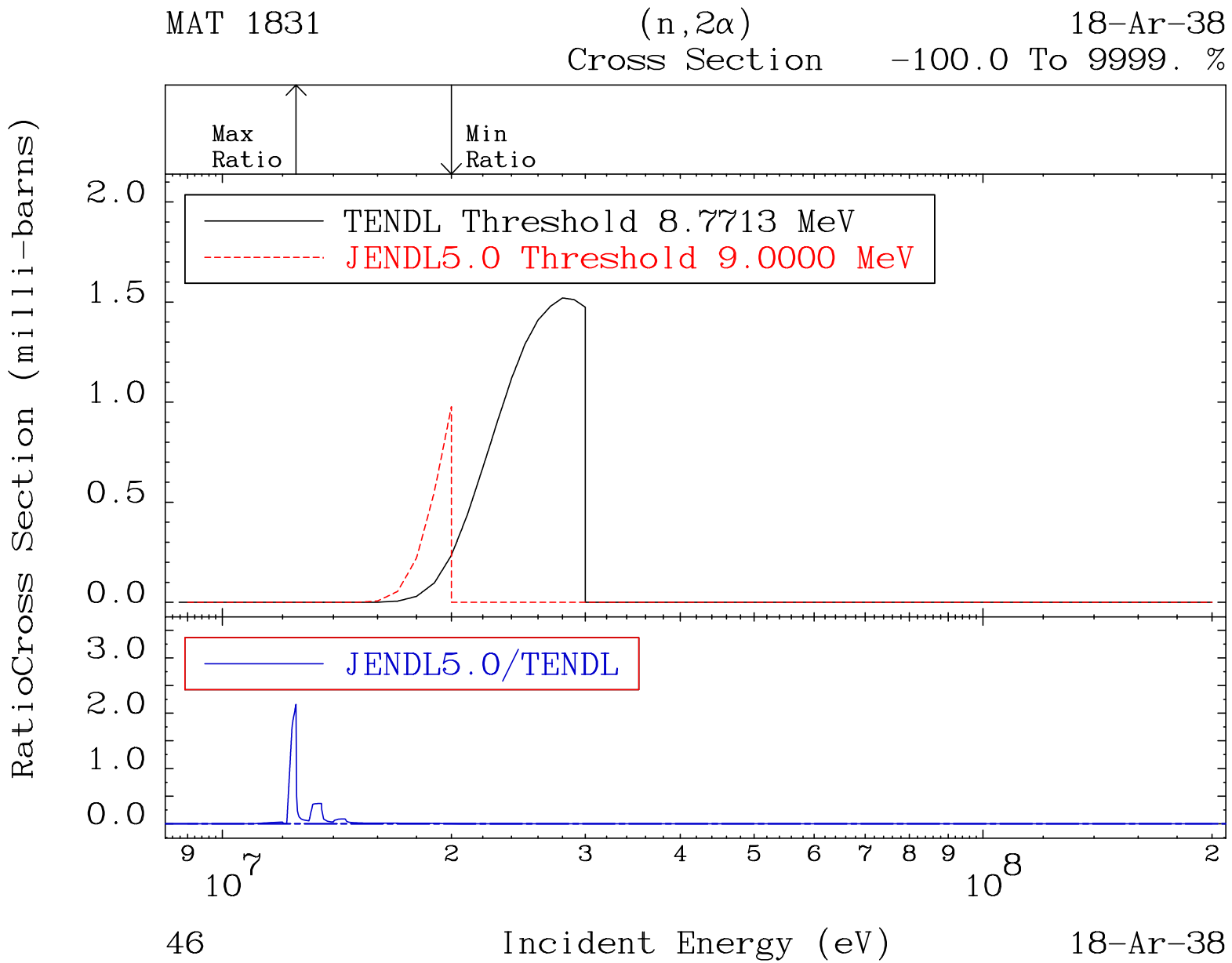

MAT 1831
(n,p)
Cross Section
18-Ar-38
-100.0 To 29.53 %
Max
Ratio
TENDL Threshold 4.2442 MeV
JENDL5.0 Threshold 4.2442 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
2.0
1.0
0.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
41
Incident Energy (eV)
18-Ar-38

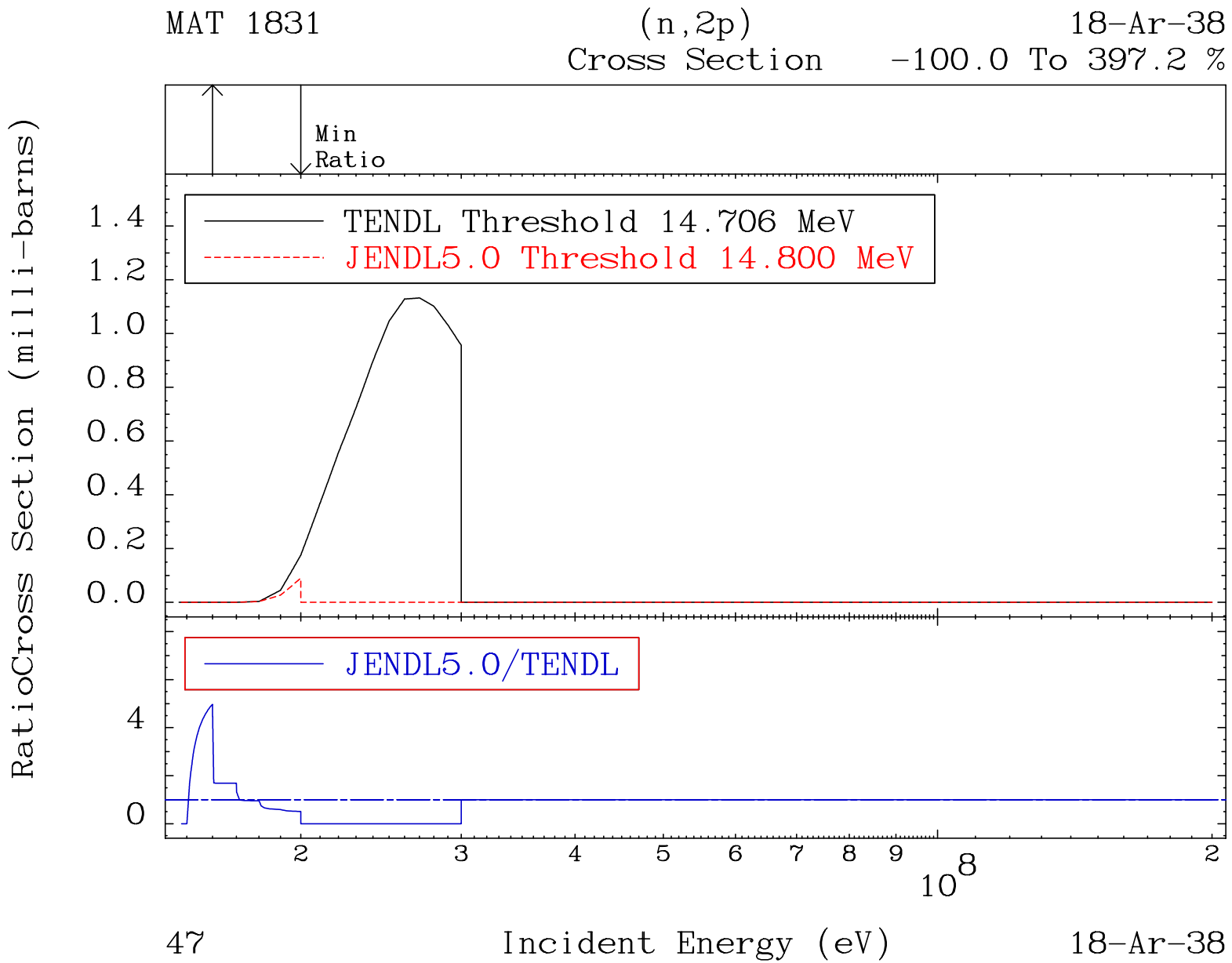

MAT 1831
(n,d)
Cross Section
18-Ar-38
-100.0 To 14.35 %
Max
Ratio
TENDL Threshold 8.2307 MeV
JENDL5.0 Threshold 8.2307 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
1.2
0.6
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
18-Ar-38

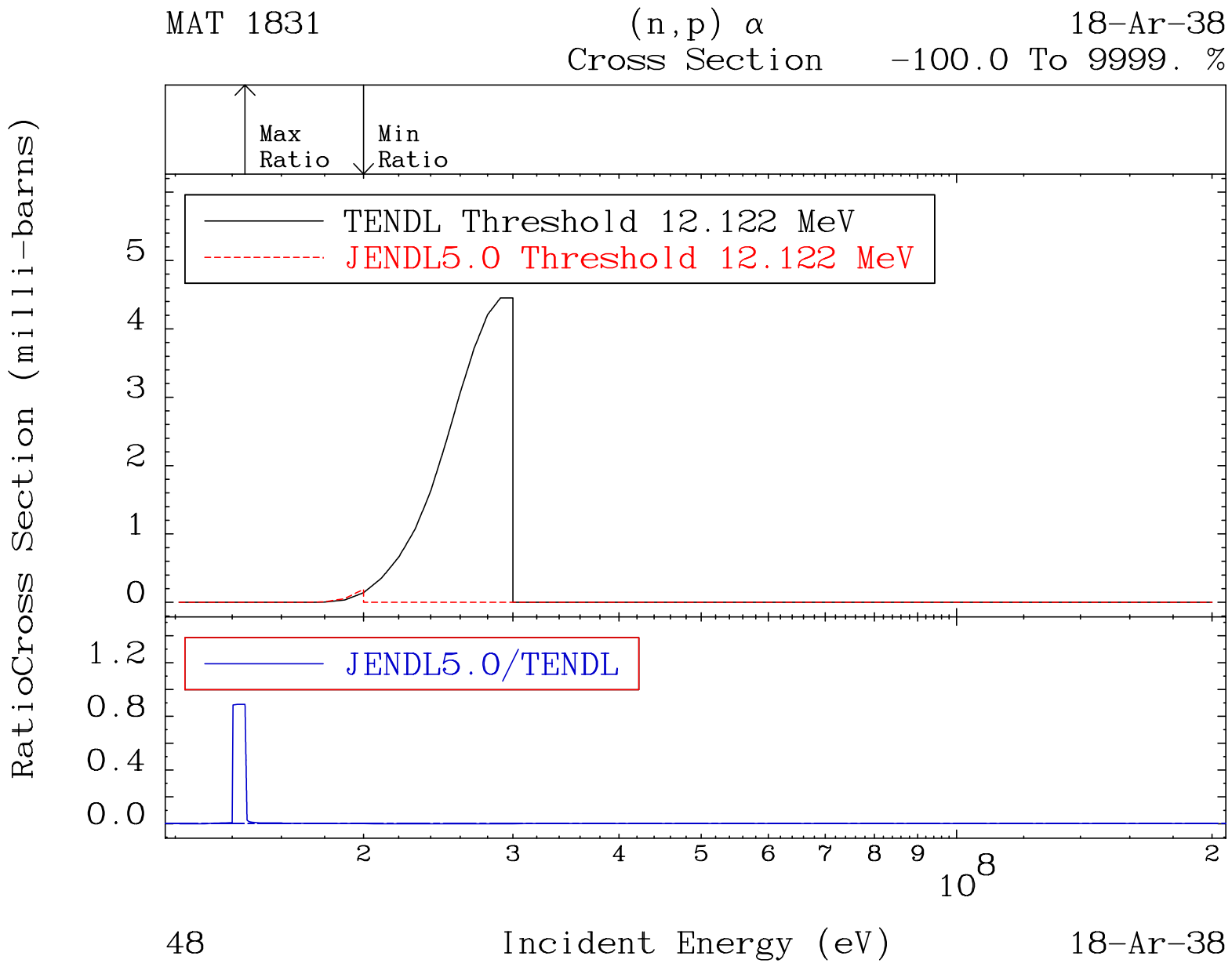

MAT 1831
(n,t)
Cross Section
18-Ar-38
-100.0 To 2723. %
Max Ratio
Min Ratio
TENDL Threshold 12.392 MeV
JENDL5.0 Threshold 12.392 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
40
20
0
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
18-Ar-38

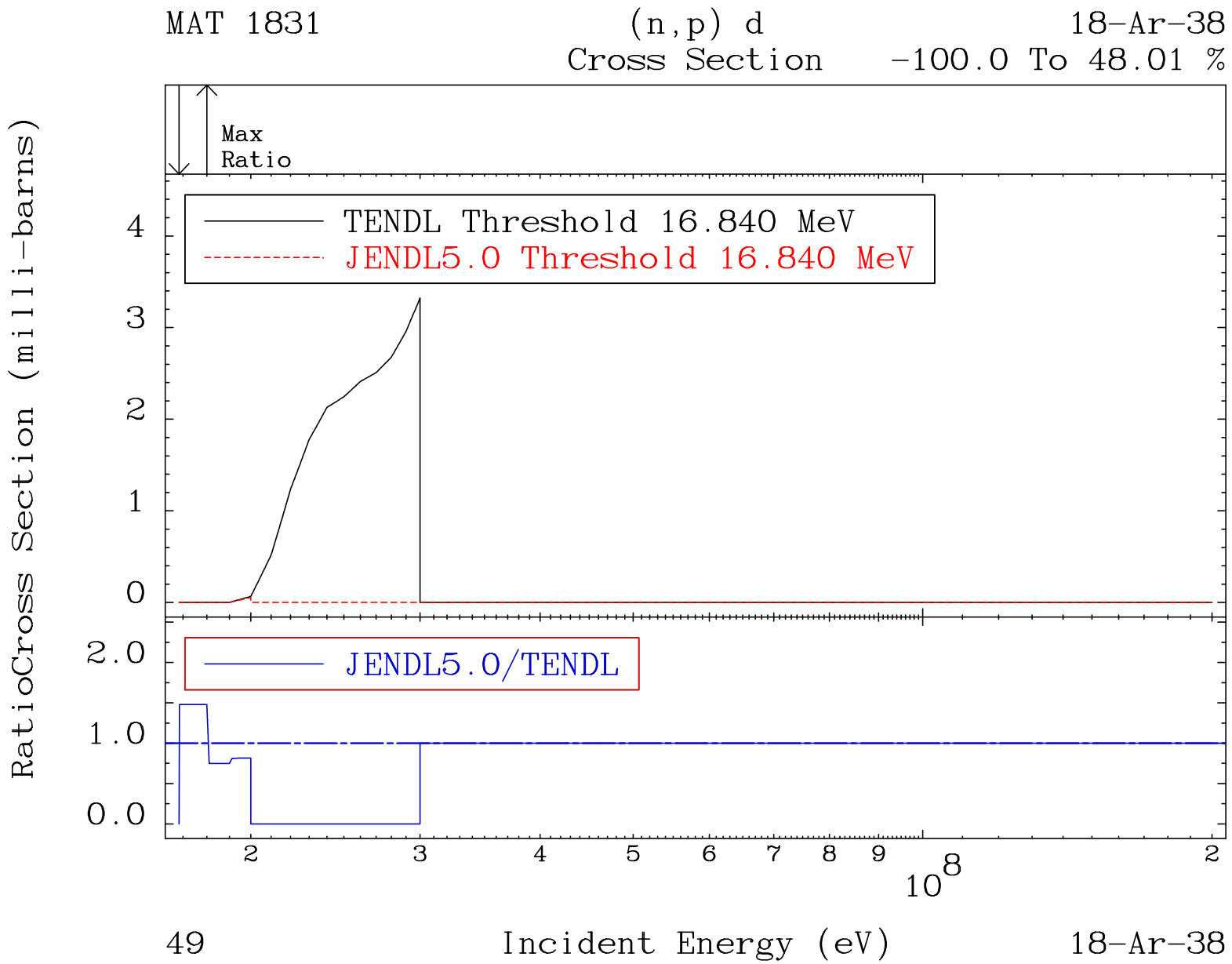

MAT 1831
(n,He-3)
Cross Section
18-Ar-38
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.200 MeV
JENDL5.0 Threshold 11.200 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
200
100
0
2
3
4
5
6
7
8
9
2
10^8
44
Incident Energy (eV)
18-Ar-38

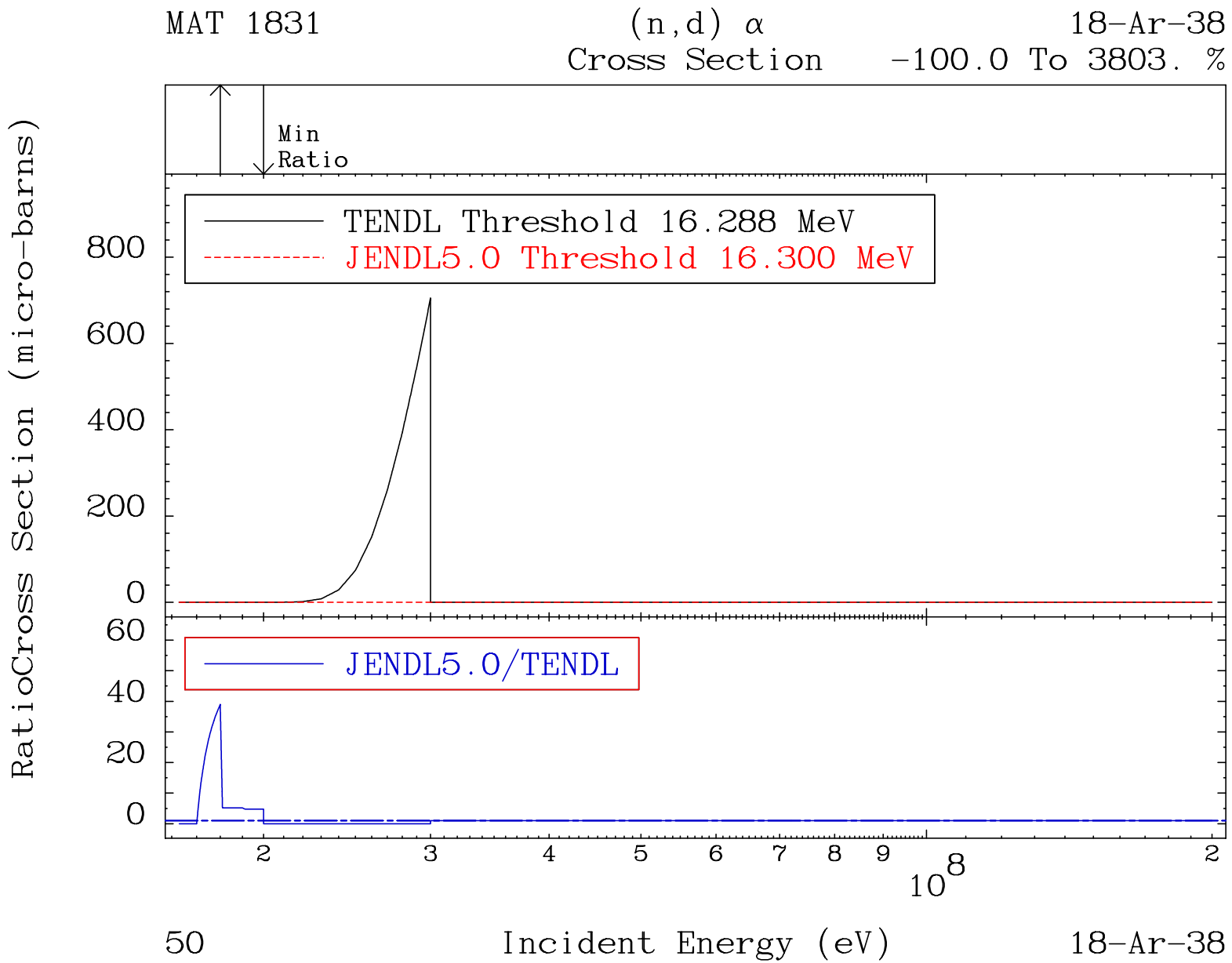

MAT 1831
(n,α)
Cross Section
18-Ar-38
-100.0 To 22.07 %
Max Ratio
Min Ratio
TENDL Threshold 900.00 keV
JENDL5.0 Threshold 226.25 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.0
0.0
3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
45
Incident Energy (eV)
18-Ar-38

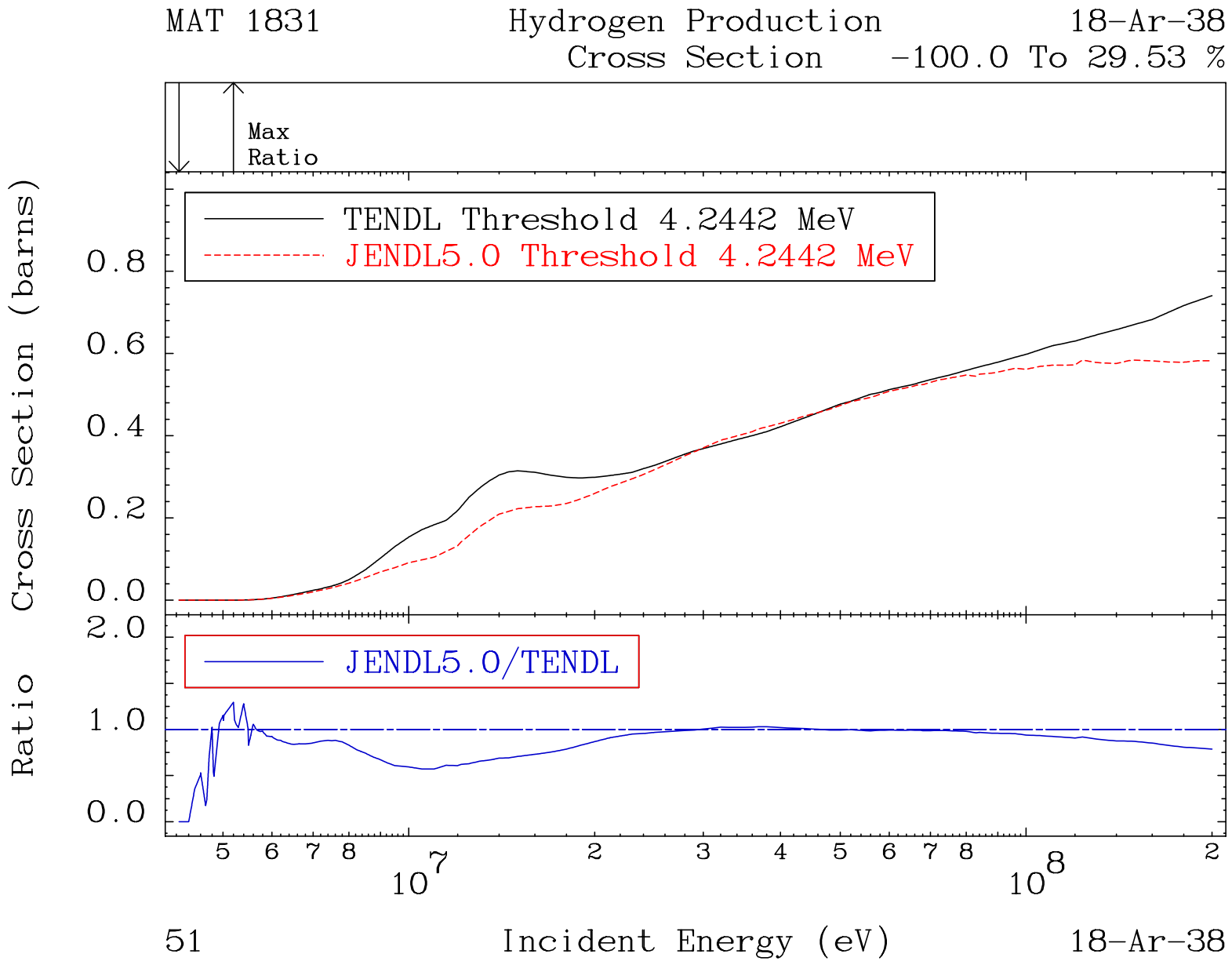

MAT 1831
(n,2α)
Cross Section
18-Ar-38
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.7713 MeV
JENDL5.0 Threshold 9.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
3.0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
18-Ar-38

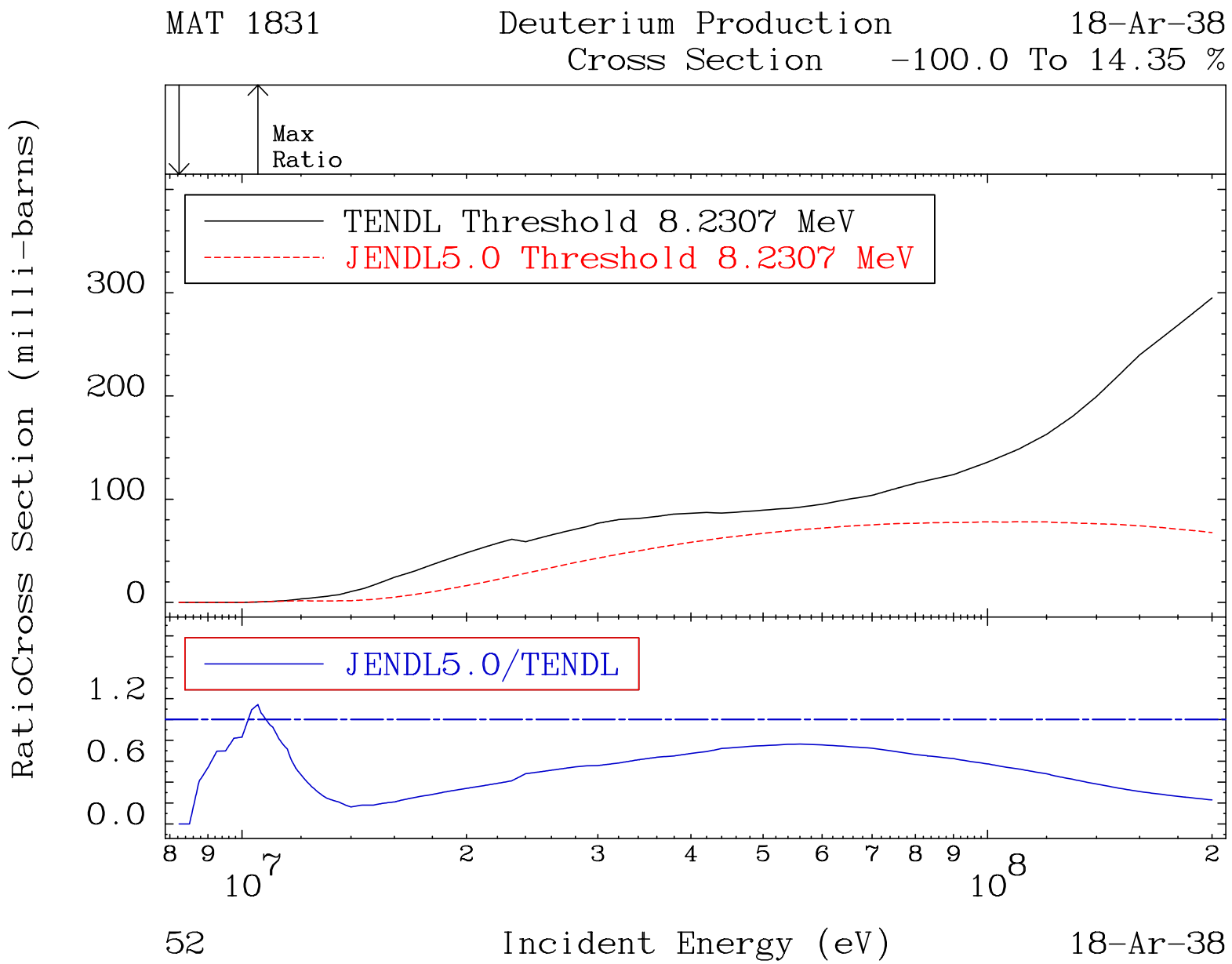

MAT 1831
(n,2p)
Cross Section
18-Ar-38
-100.0 To 397.2 %
Min
Ratio
TENDL Threshold 14.706 MeV
JENDL5.0 Threshold 14.800 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
4
0
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
18-Ar-38

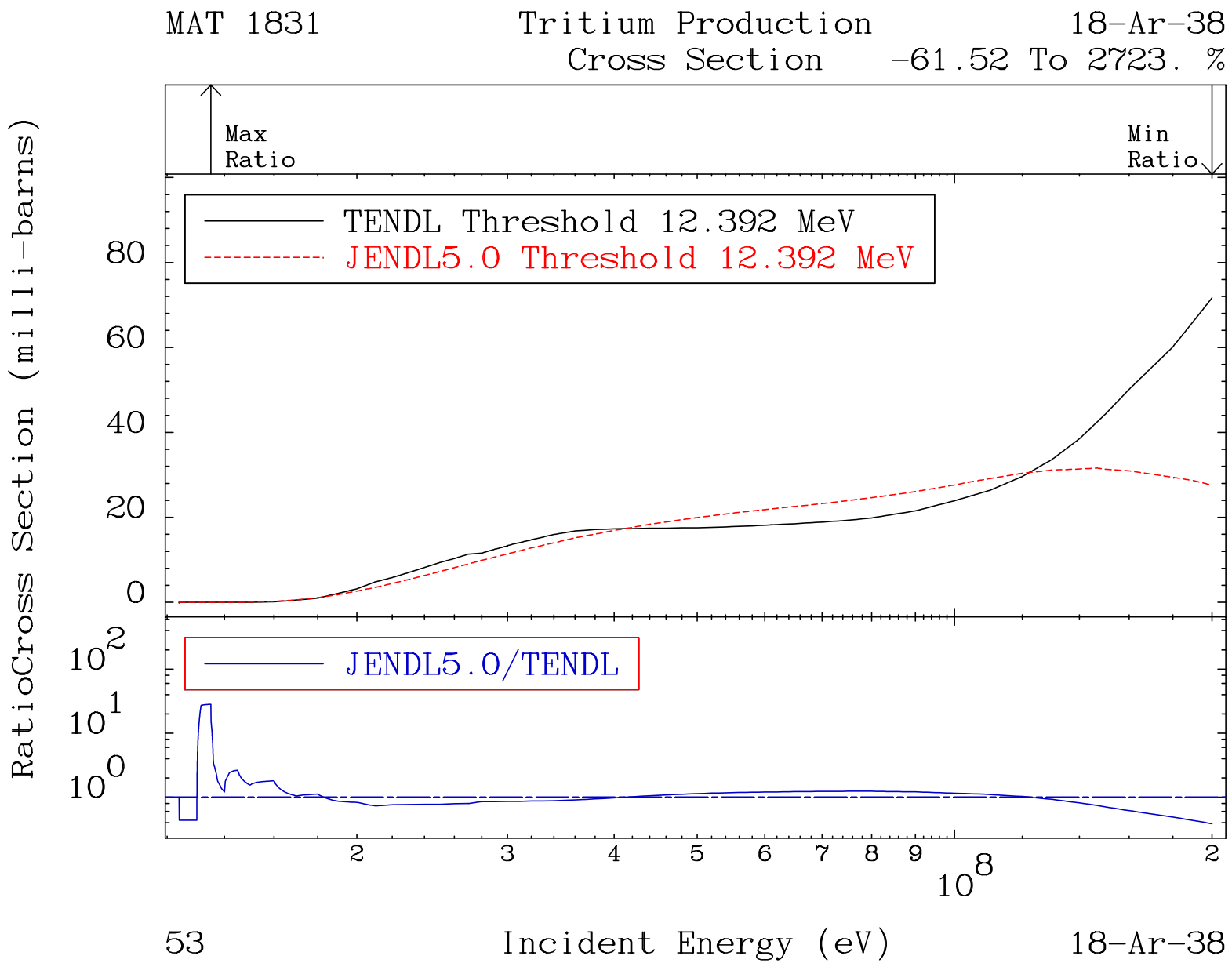

MAT 1831
(n,p) α
Cross Section
18-Ar-38
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 12.122 MeV
JENDL5.0 Threshold 12.122 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
0.0
0.4
0.8
1.2
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
18-Ar-38

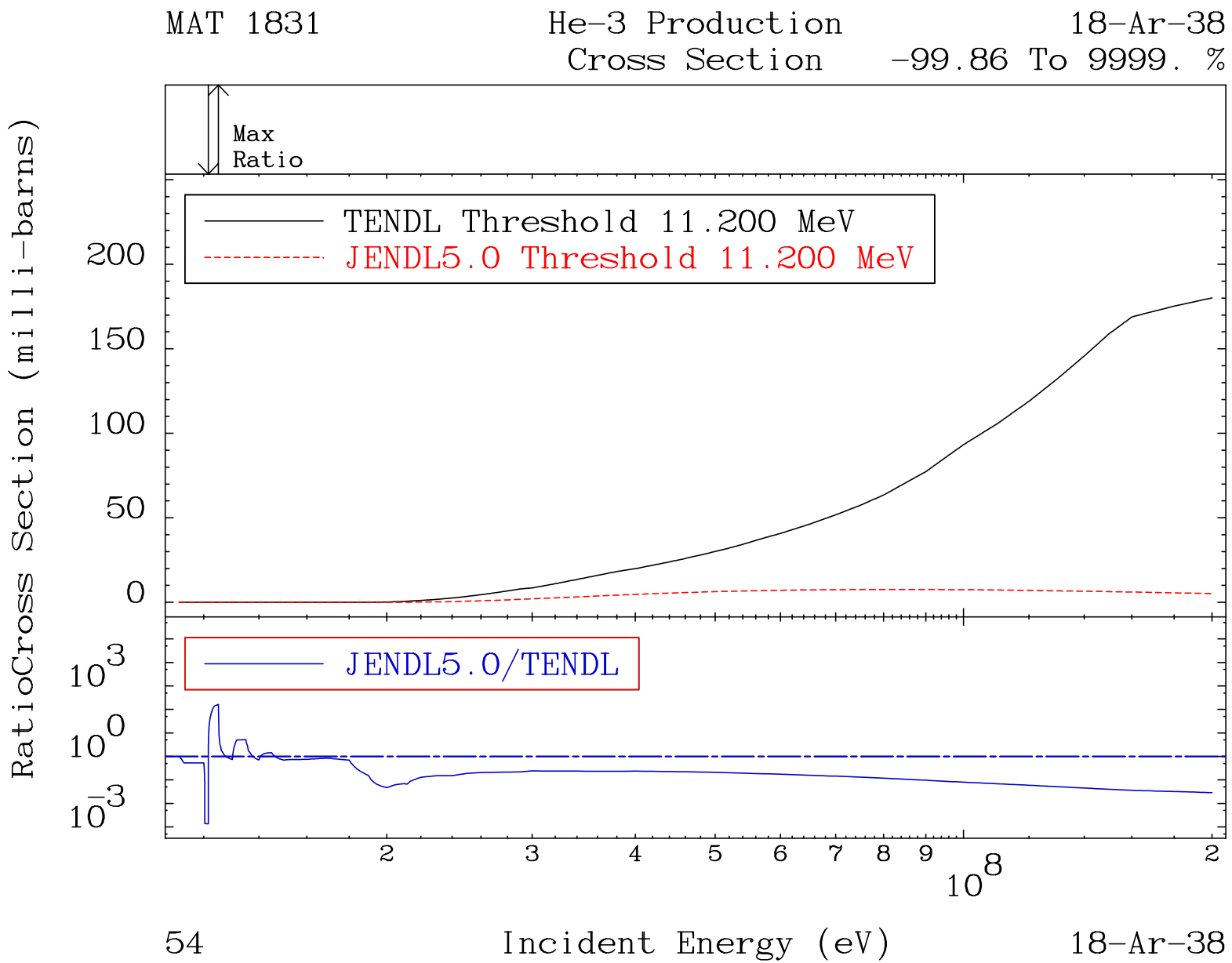

MAT 1831
(n,p) d
Cross Section
18-Ar-38
-100.0 To 48.01 %
Max
Ratio
TENDL Threshold 16.840 MeV
JENDL5.0 Threshold 16.840 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
4
3
2
1
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
18-Ar-38

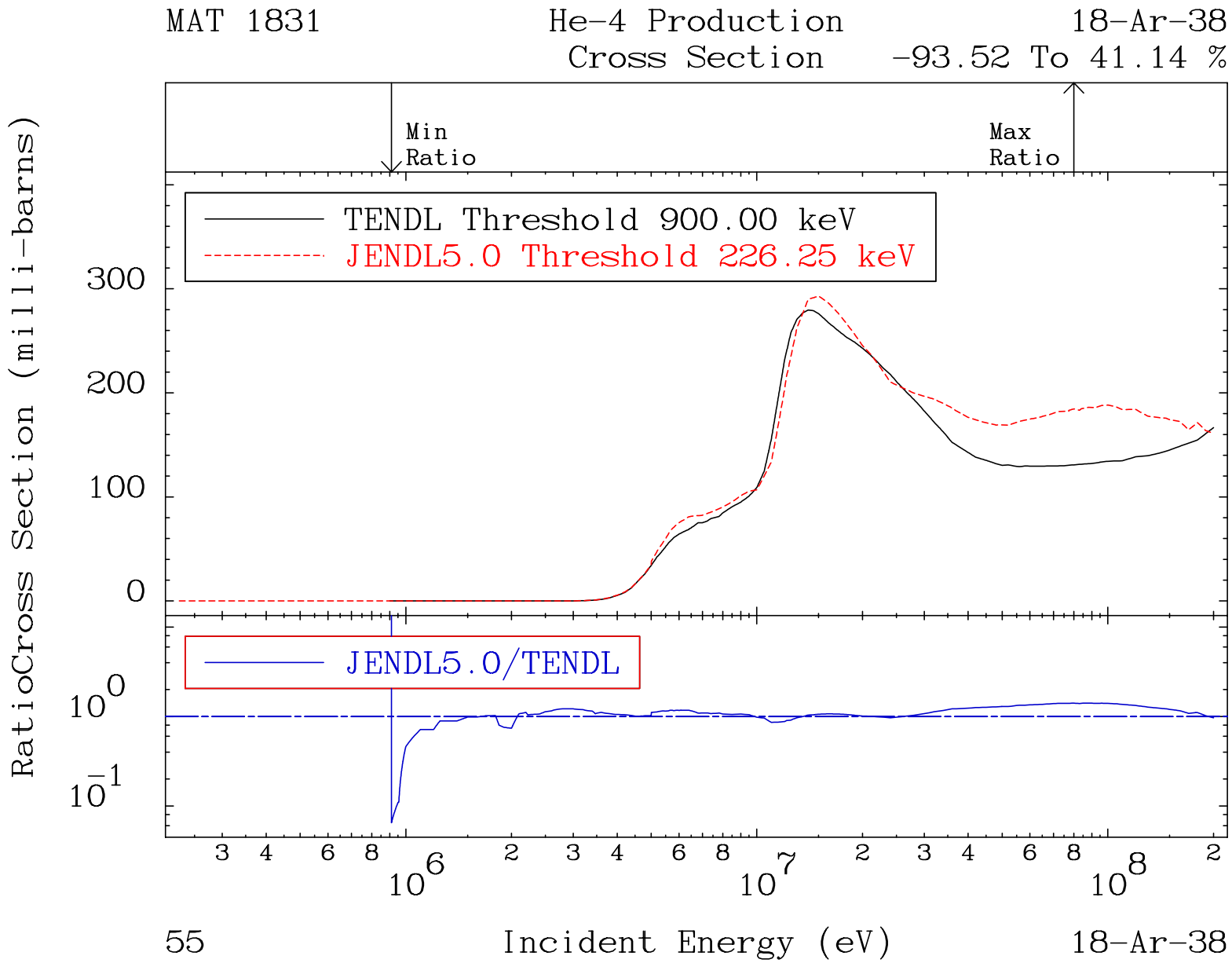

MAT 1831
(n,d) α
Cross Section
18-Ar-38
-100.0 To 3803. %
Min
Ratio
TENDL Threshold 16.288 MeV
JENDL5.0 Threshold 16.300 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
60
40
20
0
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
18-Ar-38

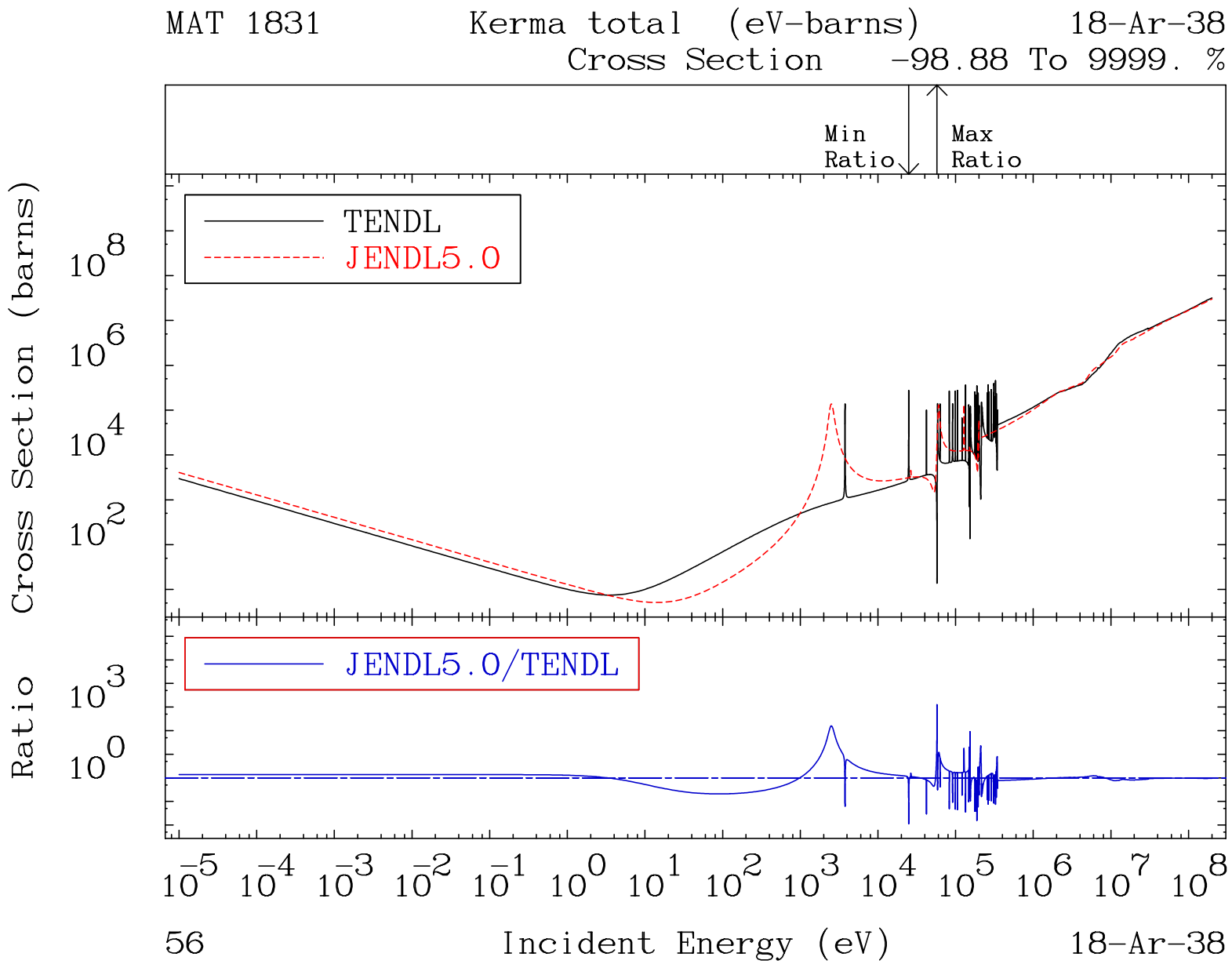

MAT 1831
Hydrogen Production
18-Ar-38
Cross Section
-100.0 To 29.53 %
Max
Ratio
TENDL Threshold 4.2442 MeV
JENDL5.0 Threshold 4.2442 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
0.0
0.2
0.4
0.6
0.8
1.0
2.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
51
Incident Energy (eV)
18-Ar-38

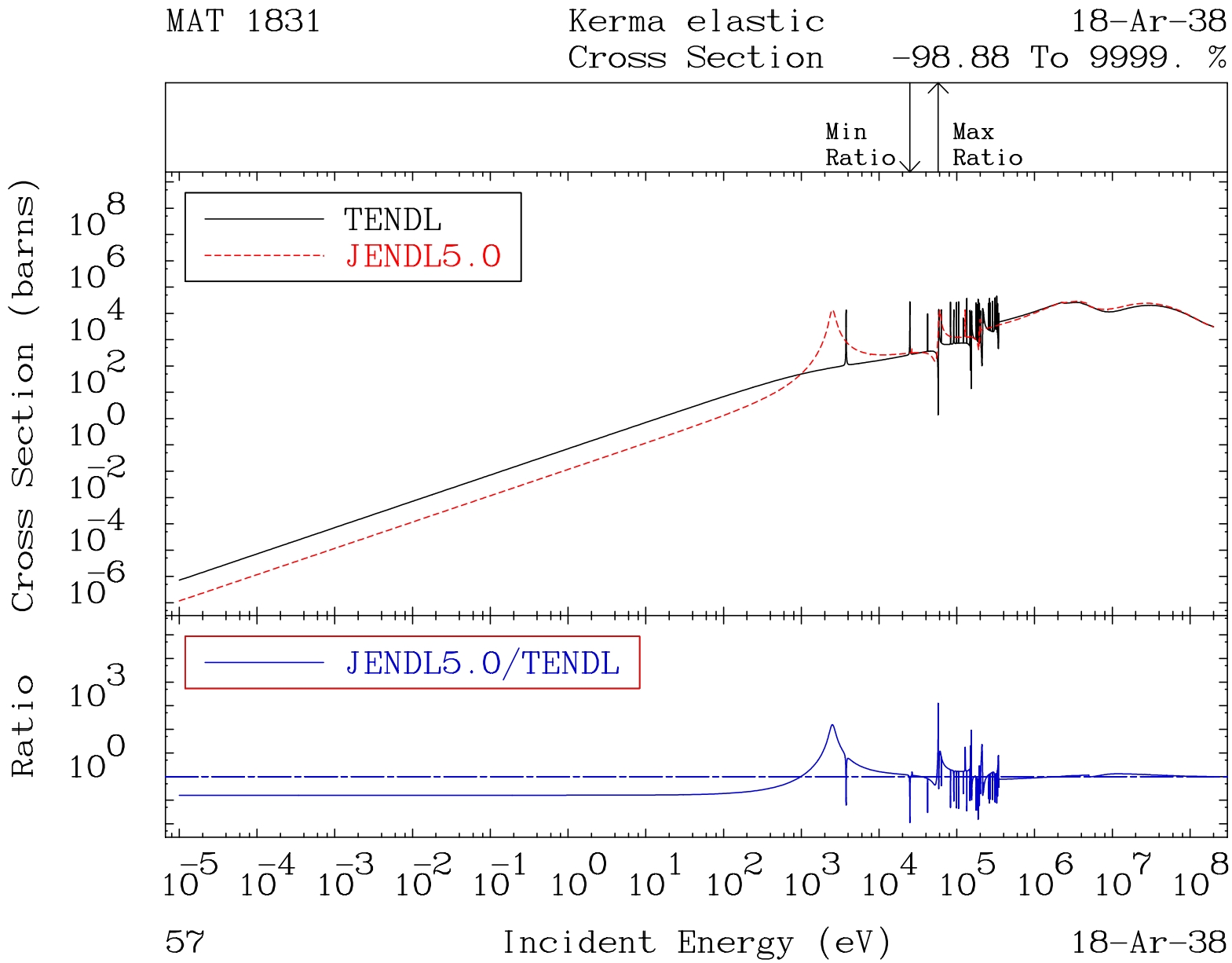

MAT 1831
Deuterium Production
18-Ar-38
Cross Section -100.0 To 14.35 %
Max
Ratio
TENDL Threshold 8.2307 MeV
JENDL5.0 Threshold 8.2307 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
1.2
0.6
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
18-Ar-38

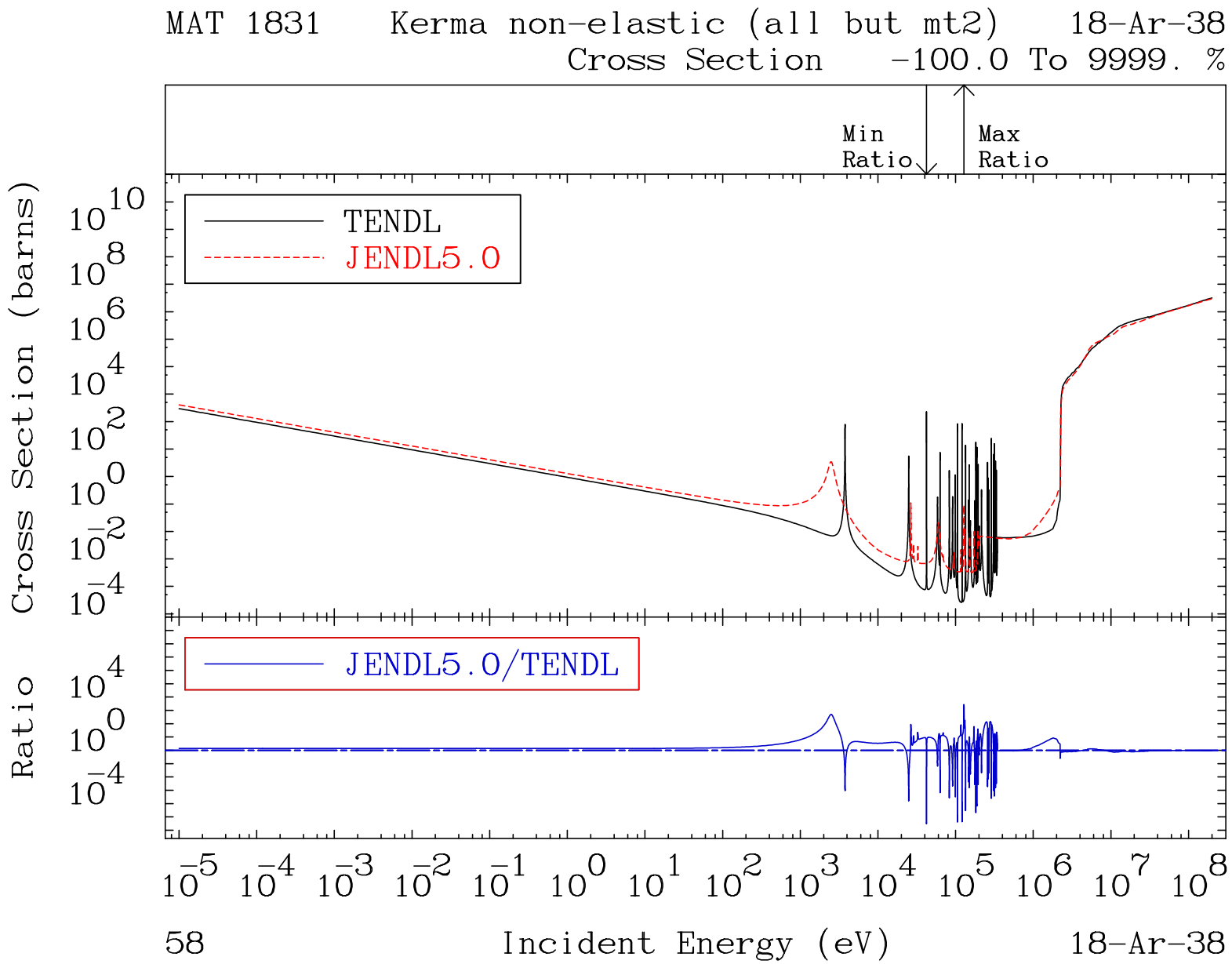

MAT 1831
Tritium Production
Cross Section
18-Ar-38
-61.52 To 2723. %
Max Ratio
Min Ratio
TENDL Threshold 12.392 MeV
JENDL5.0 Threshold 12.392 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
53
Incident Energy (eV)
18-Ar-38

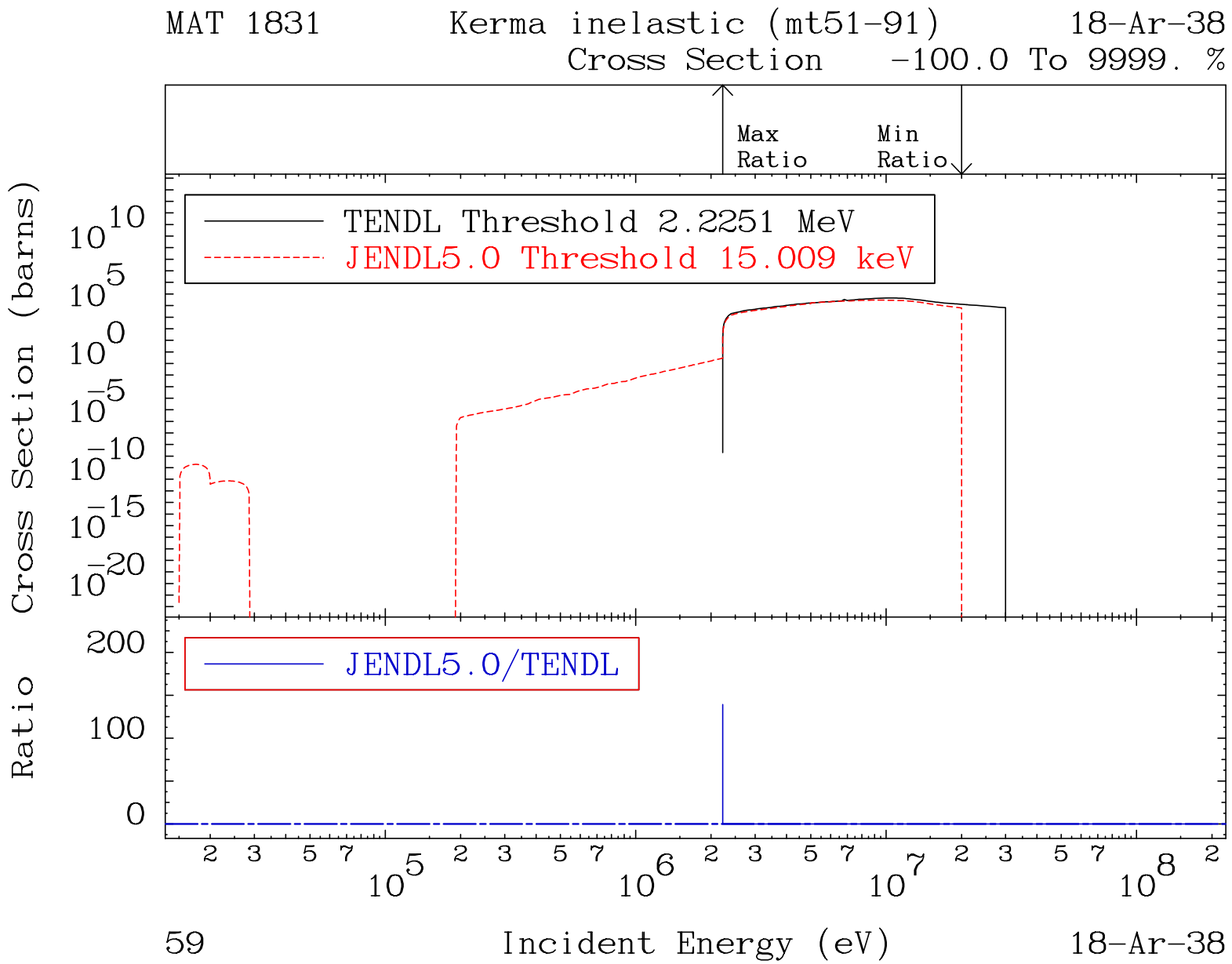

MAT 1831
He-3 Production
Cross Section
18-Ar-38
-99.86 To 9999. %
Max
Ratio
TENDL Threshold 11.200 MeV
JENDL5.0 Threshold 11.200 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^3
10^0
10^-3
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
18-Ar-38

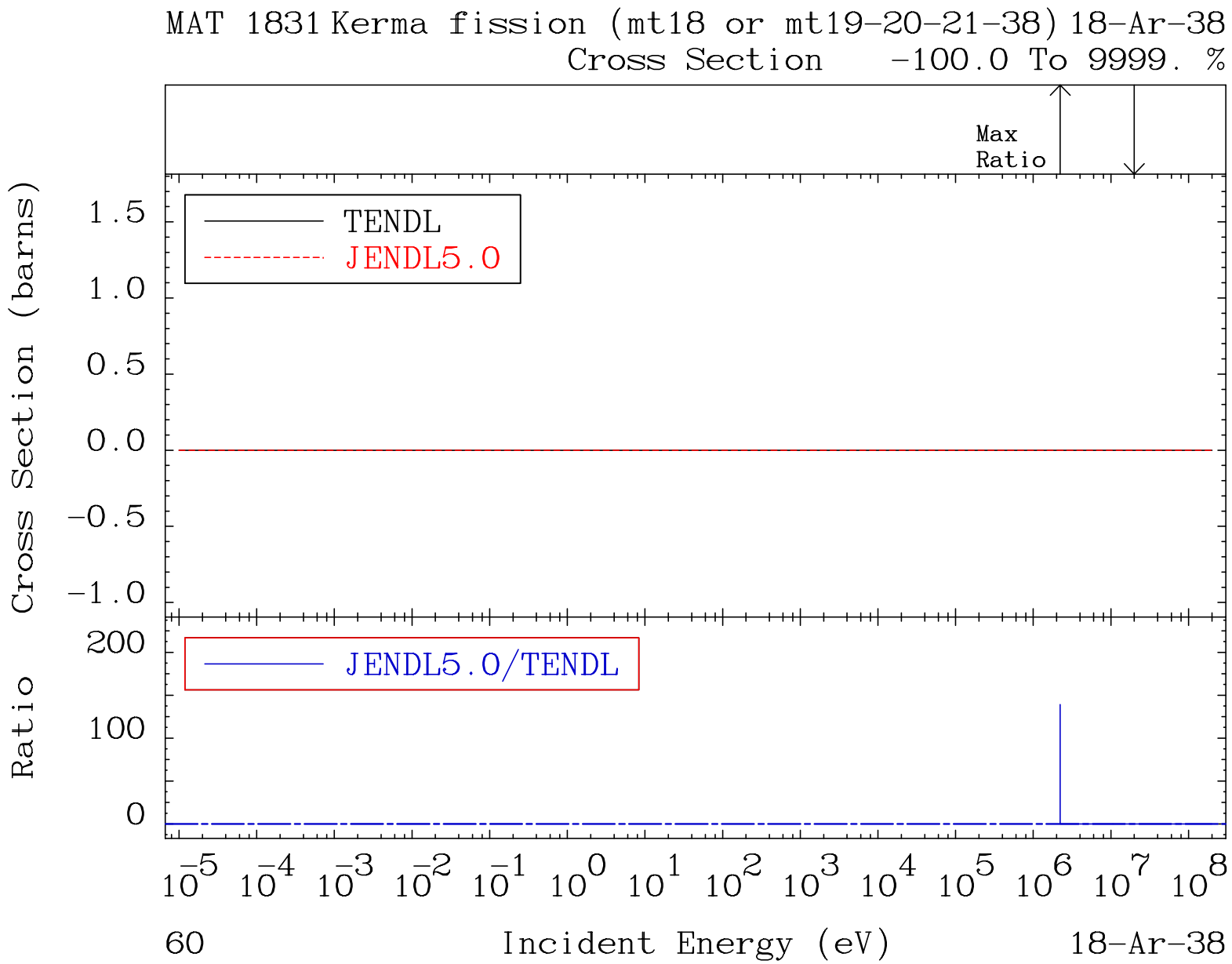

MAT 1831
He-4 Production
Cross Section
18-Ar-38
-93.52 To 41.14 %
Min Ratio
Max Ratio
TENDL Threshold 900.00 keV
JENDL5.0 Threshold 226.25 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
10^0
10^-1
3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
55
Incident Energy (eV)
18-Ar-38

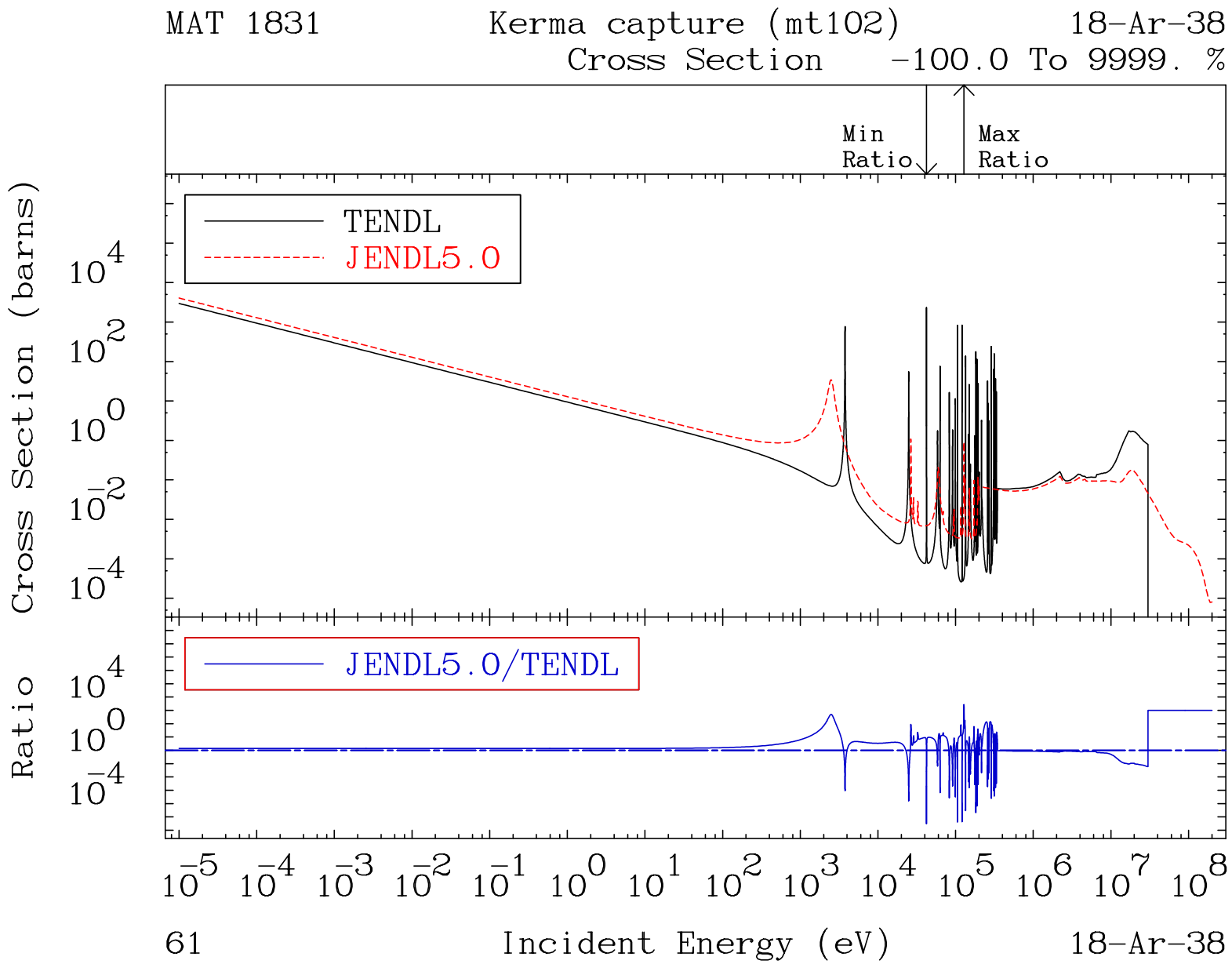

MAT 1831
Kerma total (eV-barns)
18-Ar-38
Cross Section -98.88 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
18-Ar-38

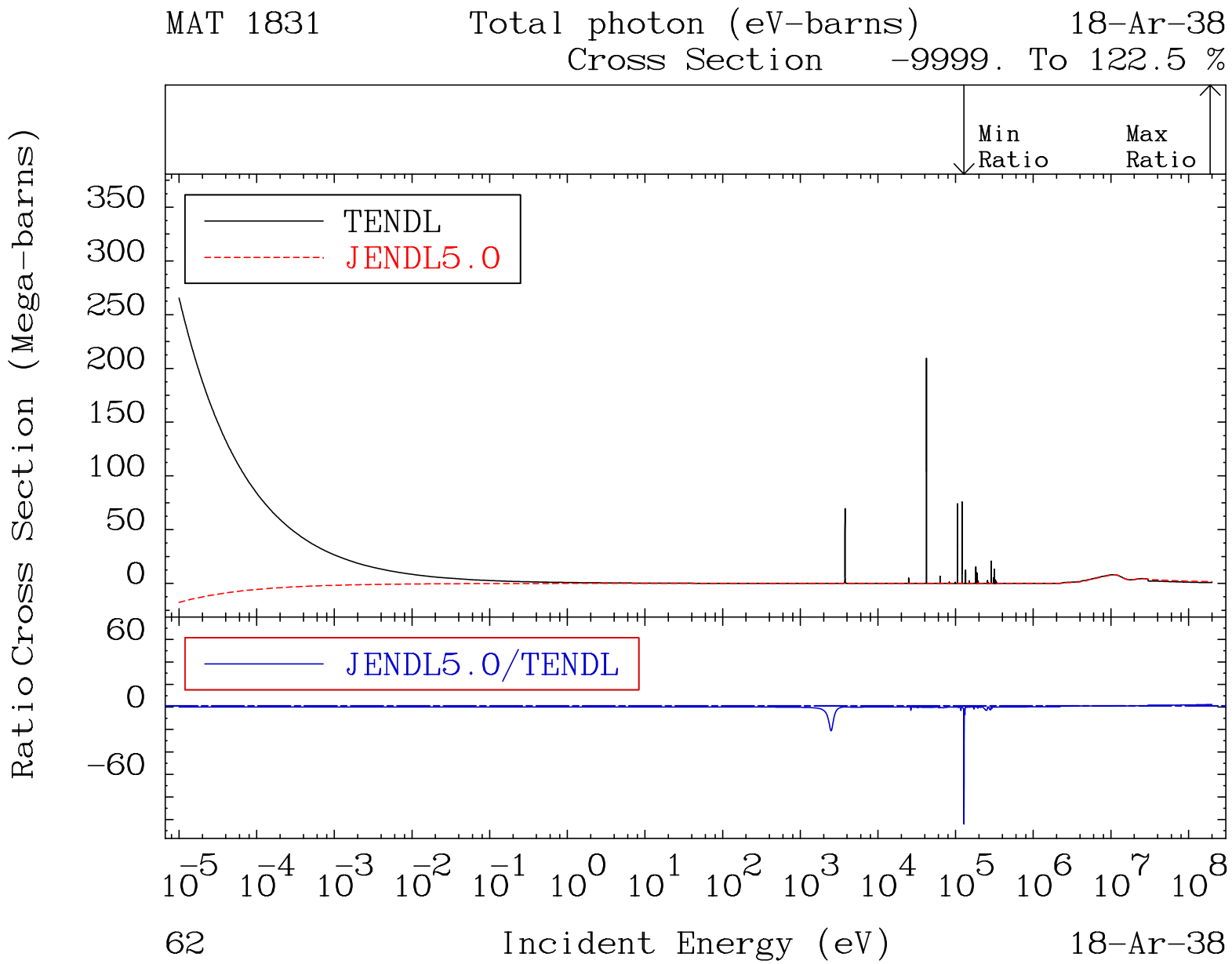

MAT 1831
Kerma elastic
Cross Section
18-Ar-38
-98.88 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
57
18-Ar-38

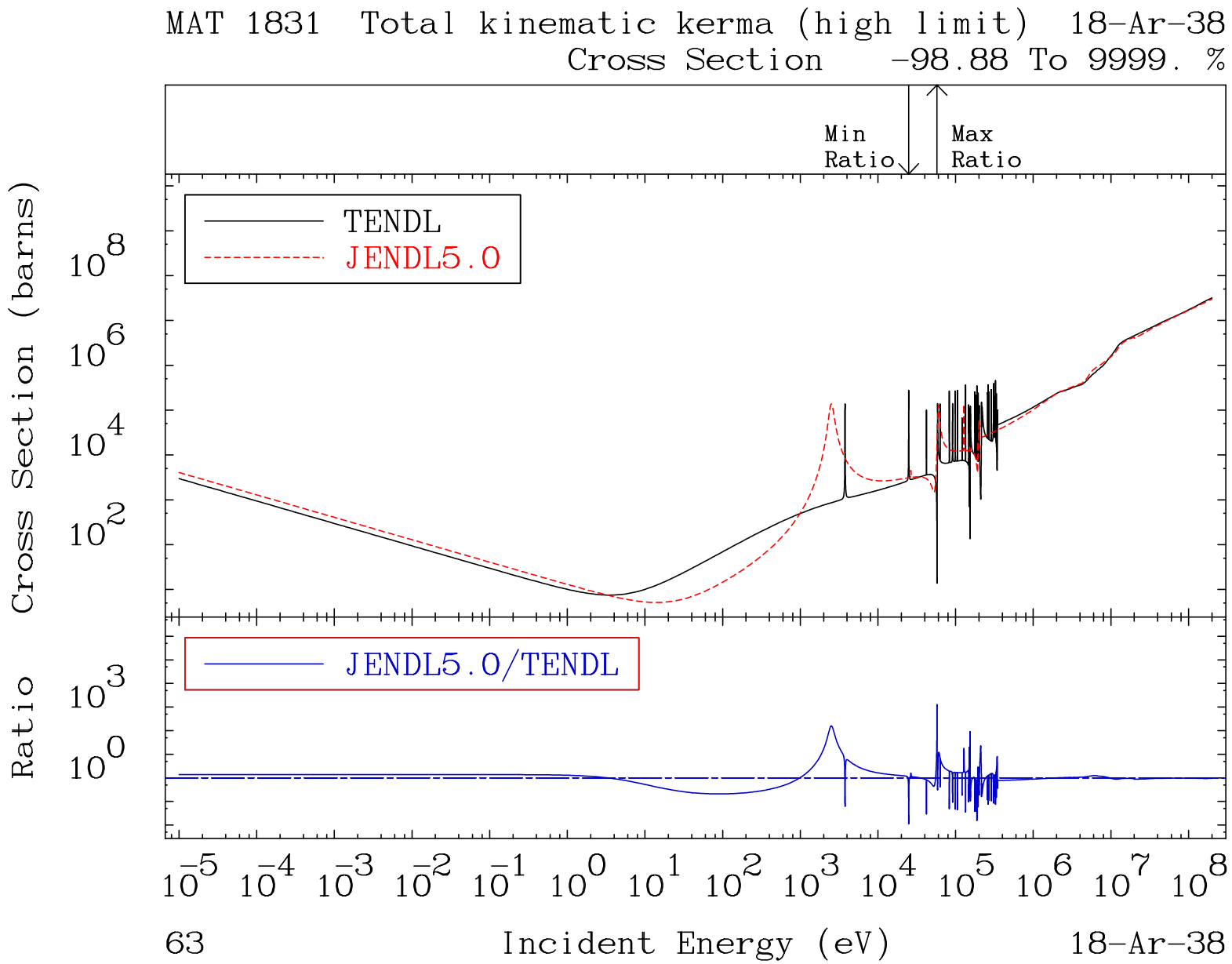

MAT 1831 Kerma non-elastic (all but mt2) 18-Ar-38
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
18-Ar-38

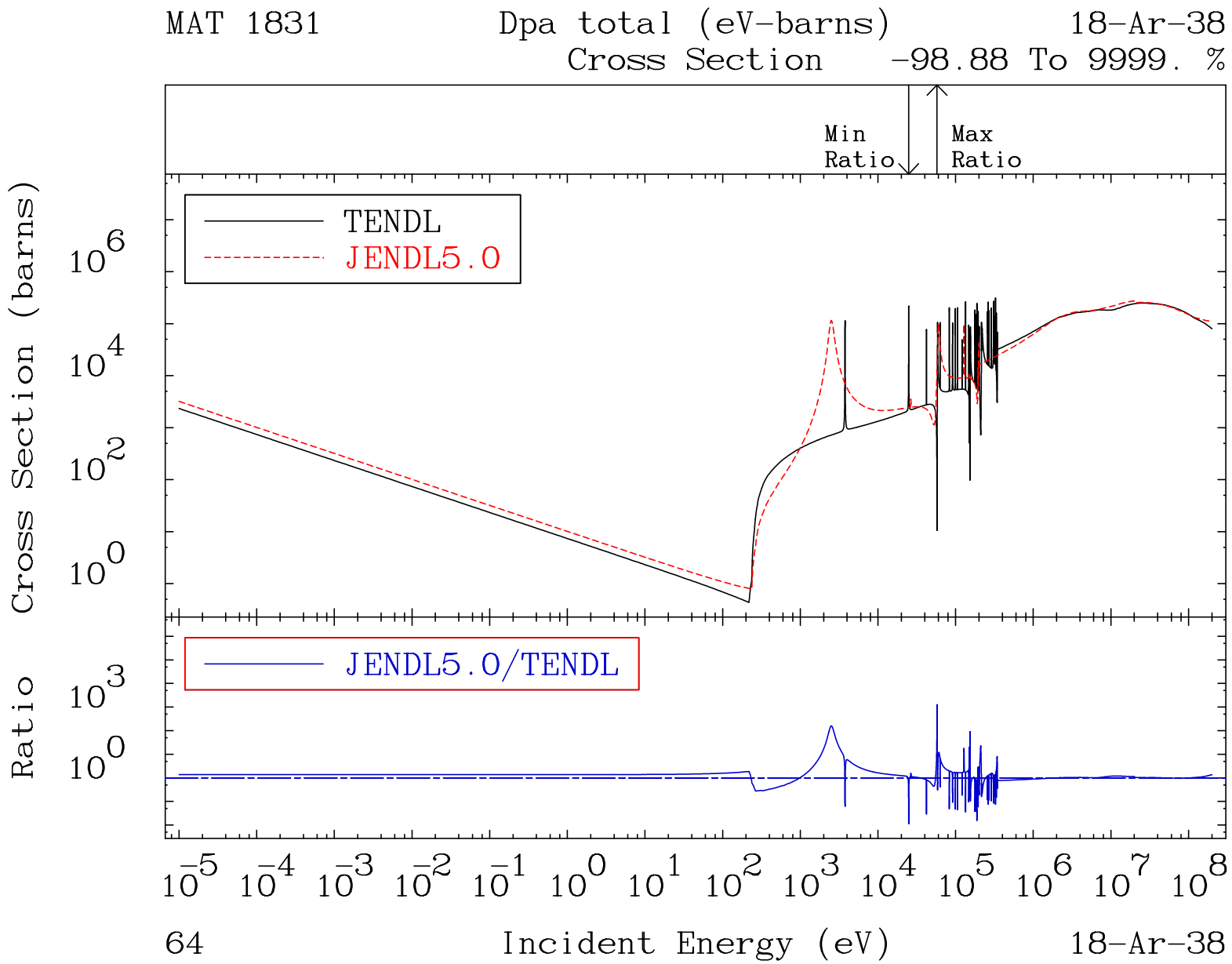

MAT 1831
Kerma inelastic (mt51-91)
18-Ar-38
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.2251 MeV
JENDL5.0 Threshold 15.009 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
18-Ar-38

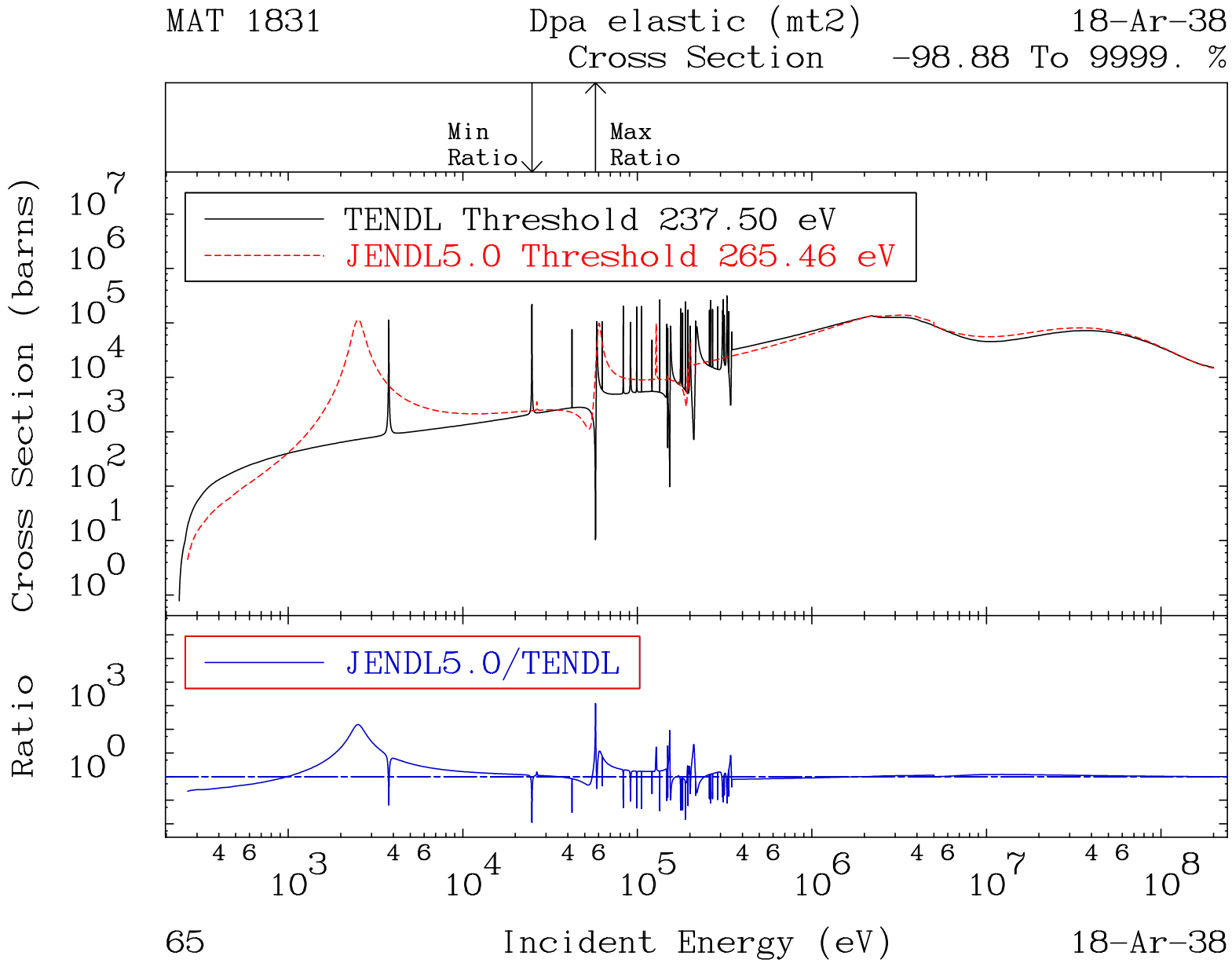

MAT 1831 Kerma fission (mt18 or mt19-20-21-38) 18-Ar-38
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
200
100
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
Incident Energy (eV)
60
18-Ar-38

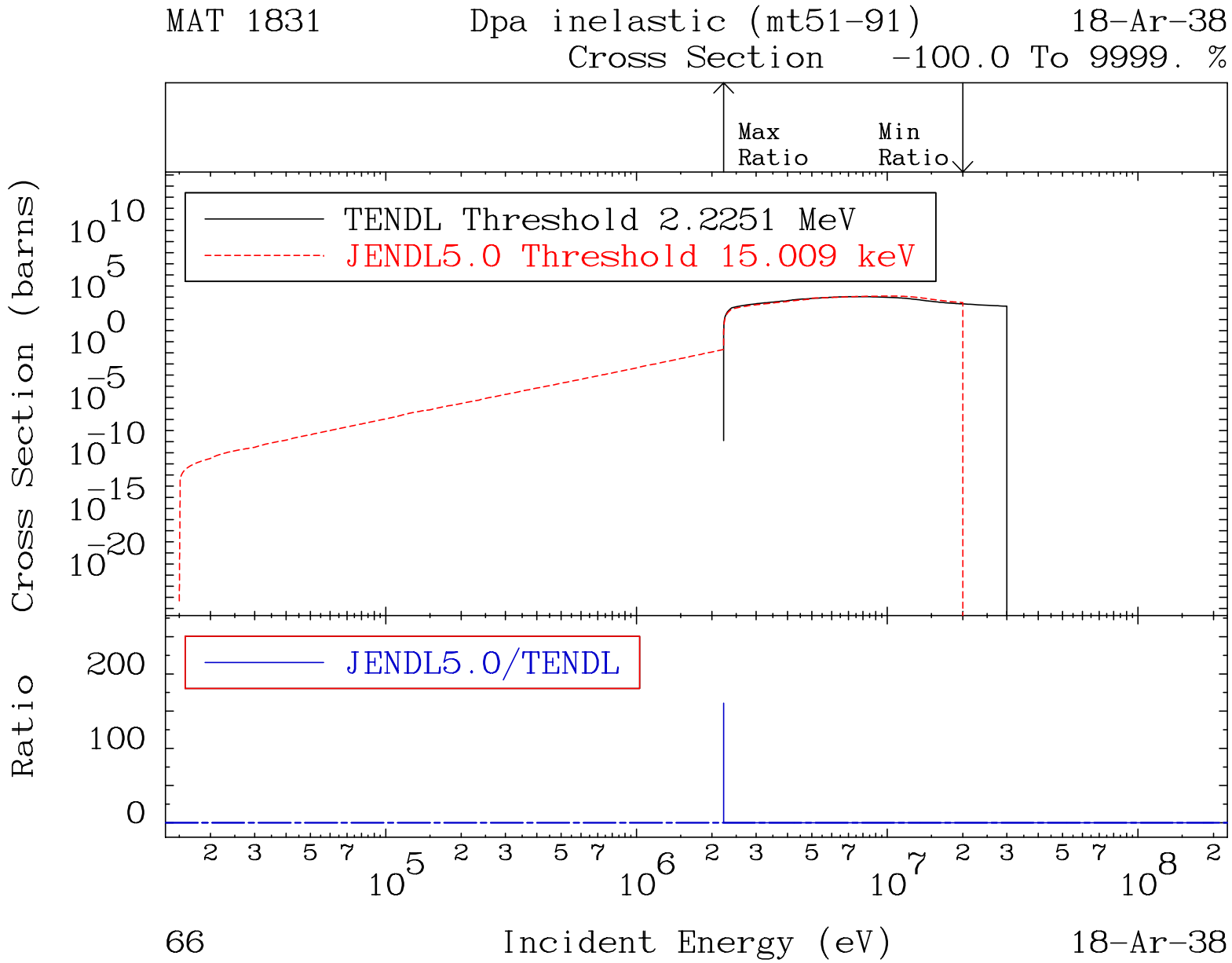

MAT 1831
Kerma capture (mt102)
18-Ar-38
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
61
18-Ar-38

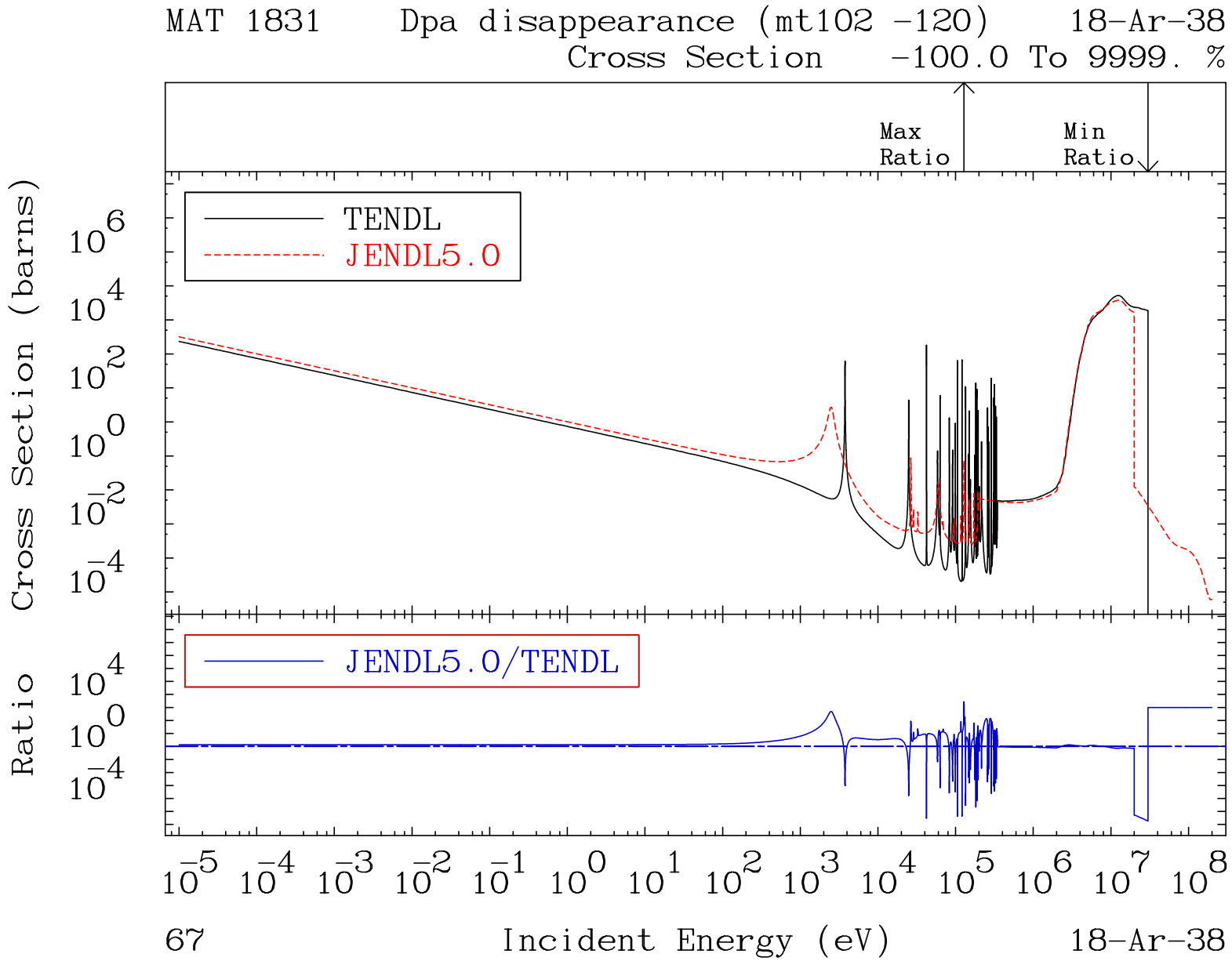

MAT 1831
Total photon (eV-barns)
18-Ar-38
Cross Section -9999. To 122.5 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Mega-barns)
350
300
250
200
150
100
50
0
60
0
-60
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
62
Incident Energy (eV)
18-Ar-38

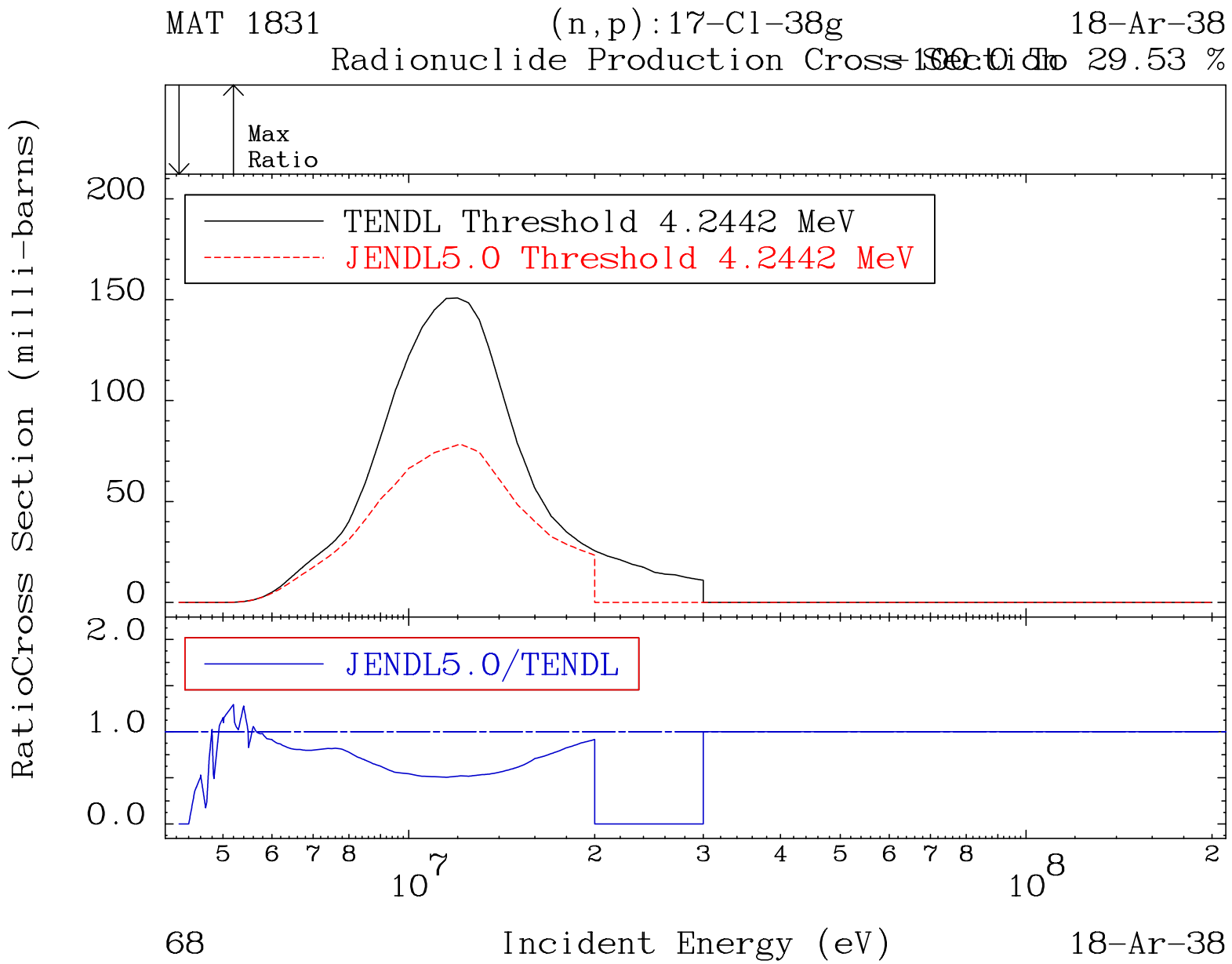

MAT 1831 Total kinematic kerma (high limit) 18-Ar-38
Cross Section -98.88 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
18-Ar-38

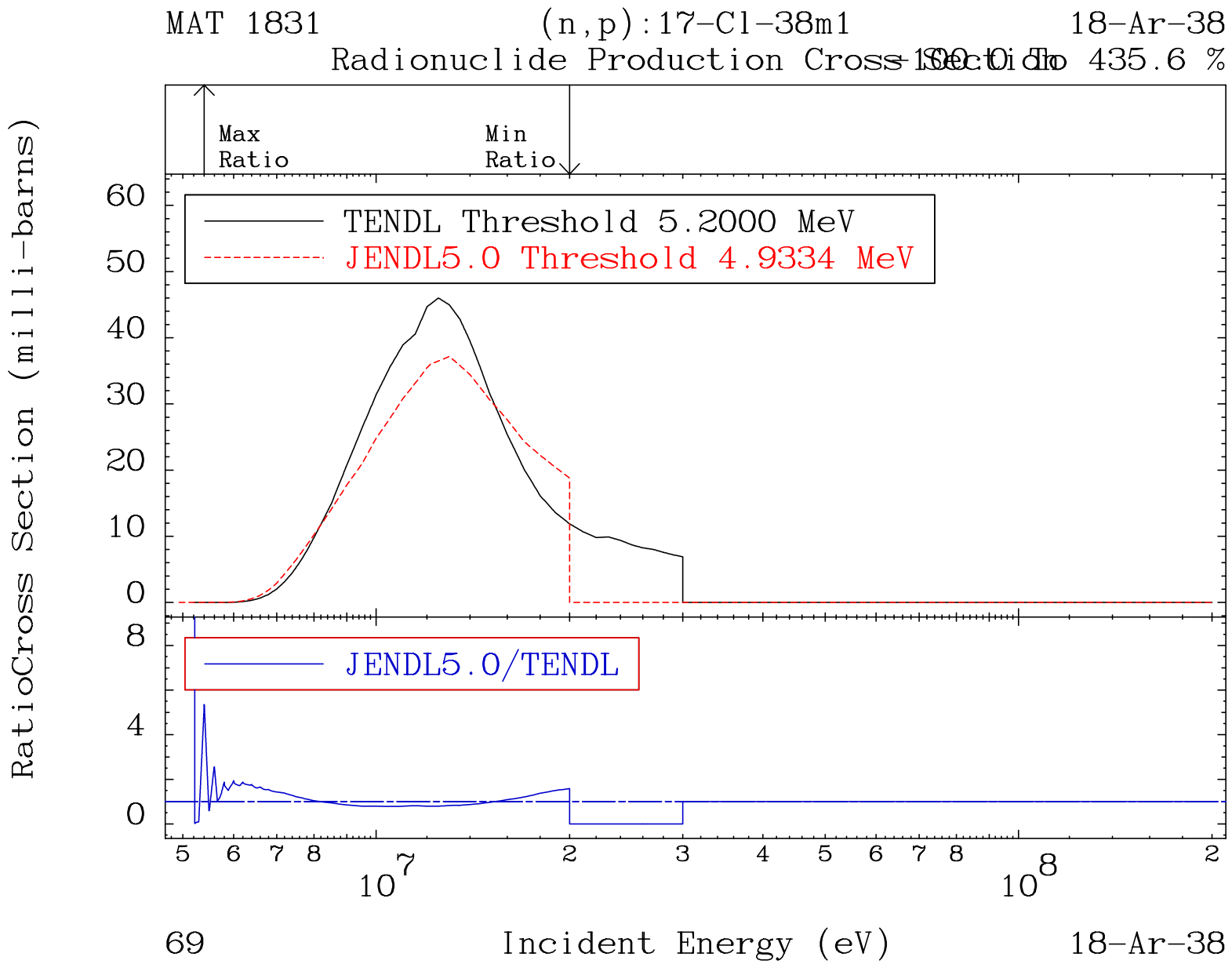

MAT 1831
Dpa total (eV-barns)
18-Ar-38
Cross Section -98.88 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
18-Ar-38

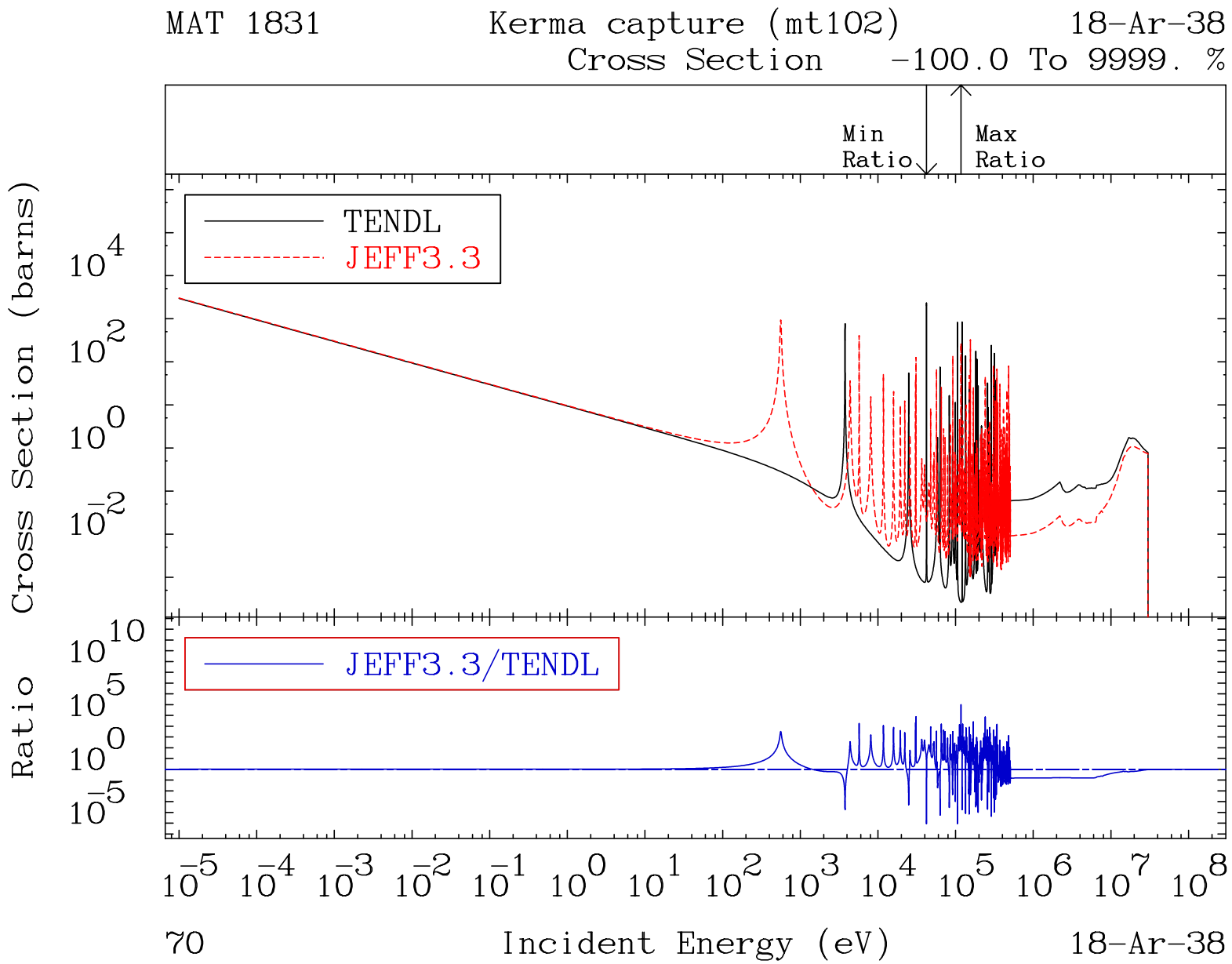

MAT 1831
Dpa elastic (mt2)
Cross Section
18-Ar-38
-98.88 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 237.50 eV
JENDL5.0 Threshold 265.46 eV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
65
18-Ar-38

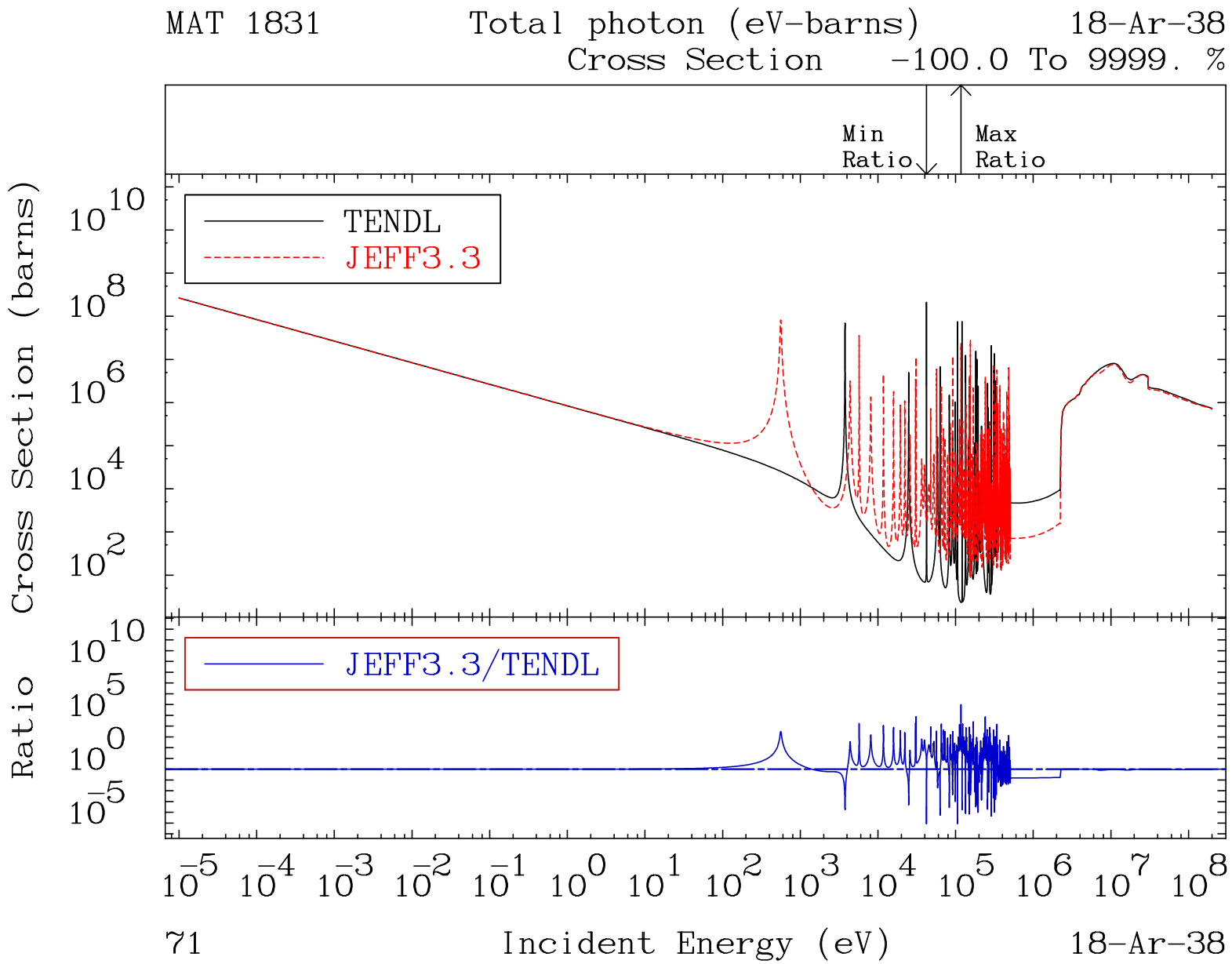

MAT 1831
Dpa inelastic (mt51-91)
18-Ar-38
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.2251 MeV
JENDL5.0 Threshold 15.009 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
66
18-Ar-38

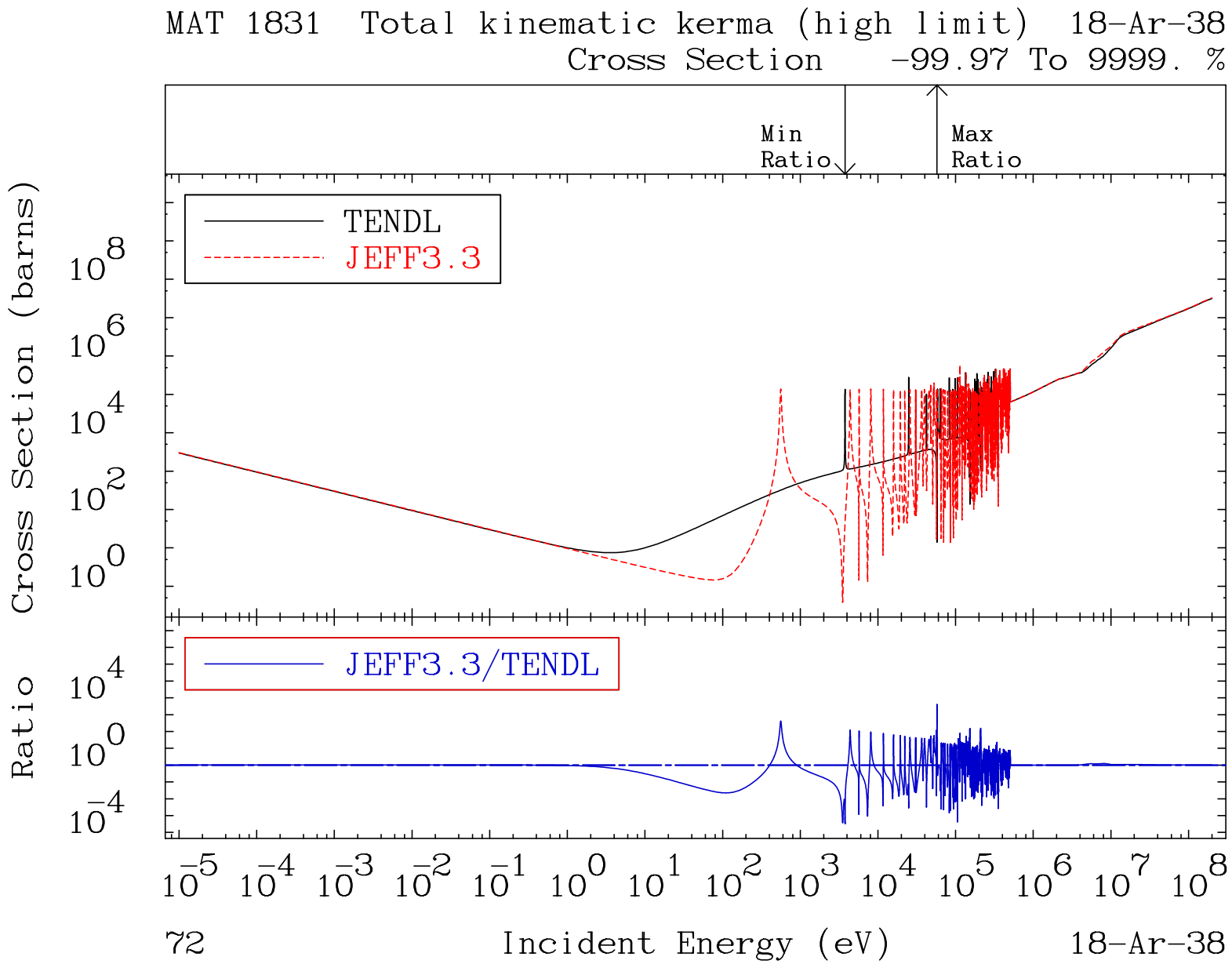

MAT 1831 Dpa disappearance (mt102 -120) 18-Ar-38
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
18-Ar-38

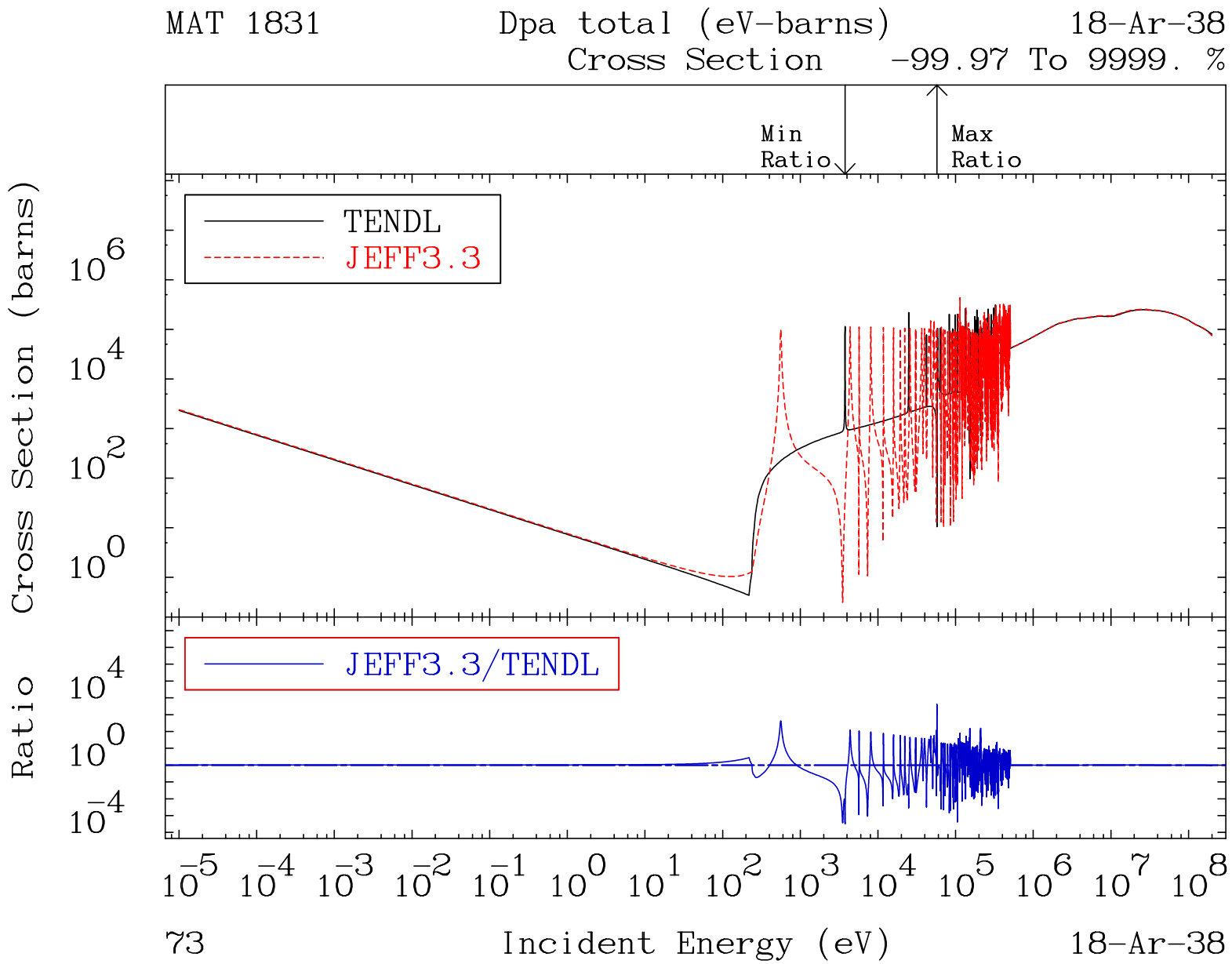

MAT 1831
(n,p):17-Cl-38g
18-Ar-38
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 4.2442 MeV
JENDL5.0 Threshold 4.2442 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
68
Incident Energy (eV)
18-Ar-38

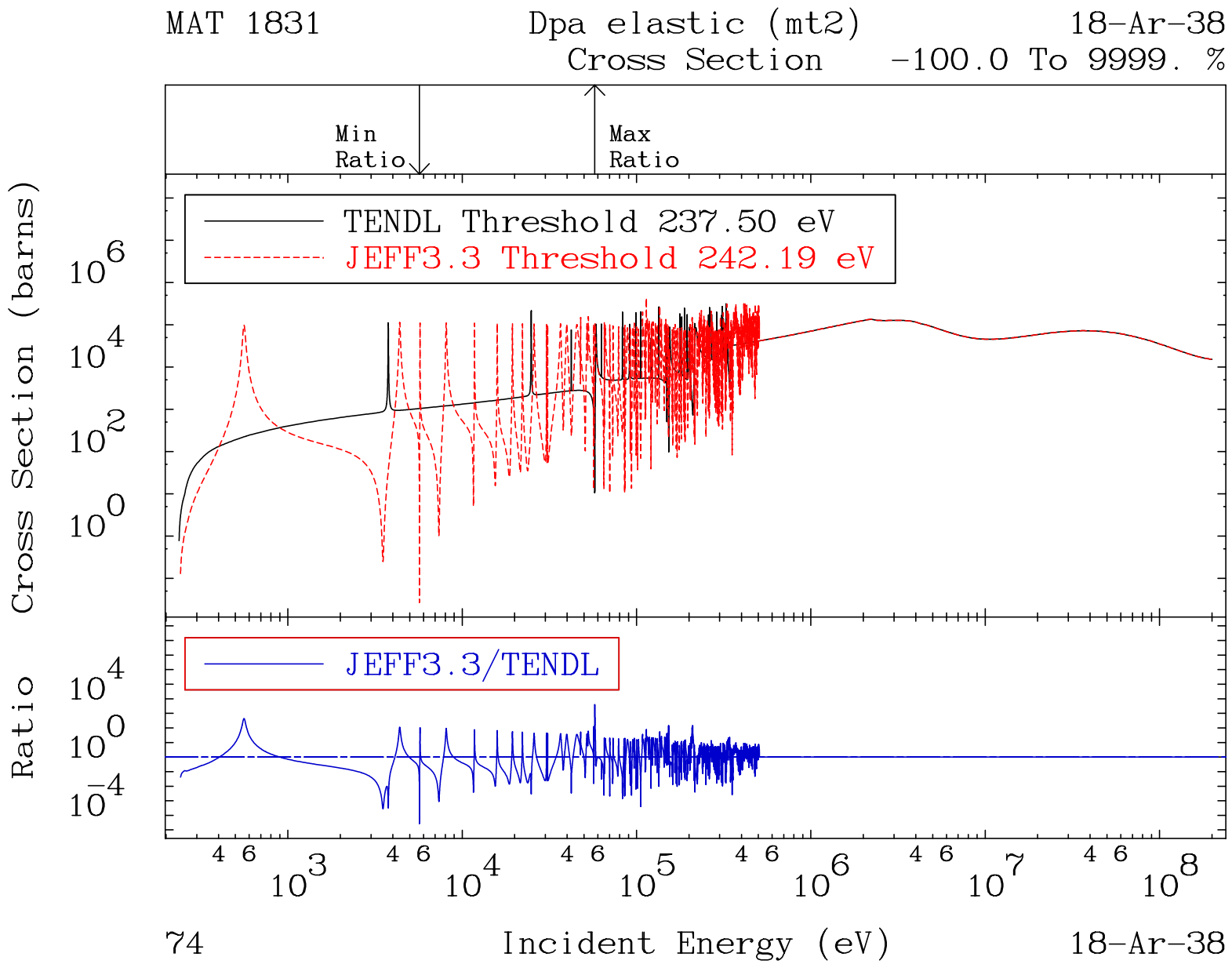

MAT 1831
(n,p):17-Cl-38m1
18-Ar-38
Radionuclide Production Cross Section To 435.6 %
Max Ratio
Min Ratio
TENDL Threshold 5.2000 MeV
JENDL5.0 Threshold 4.9334 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
18-Ar-38

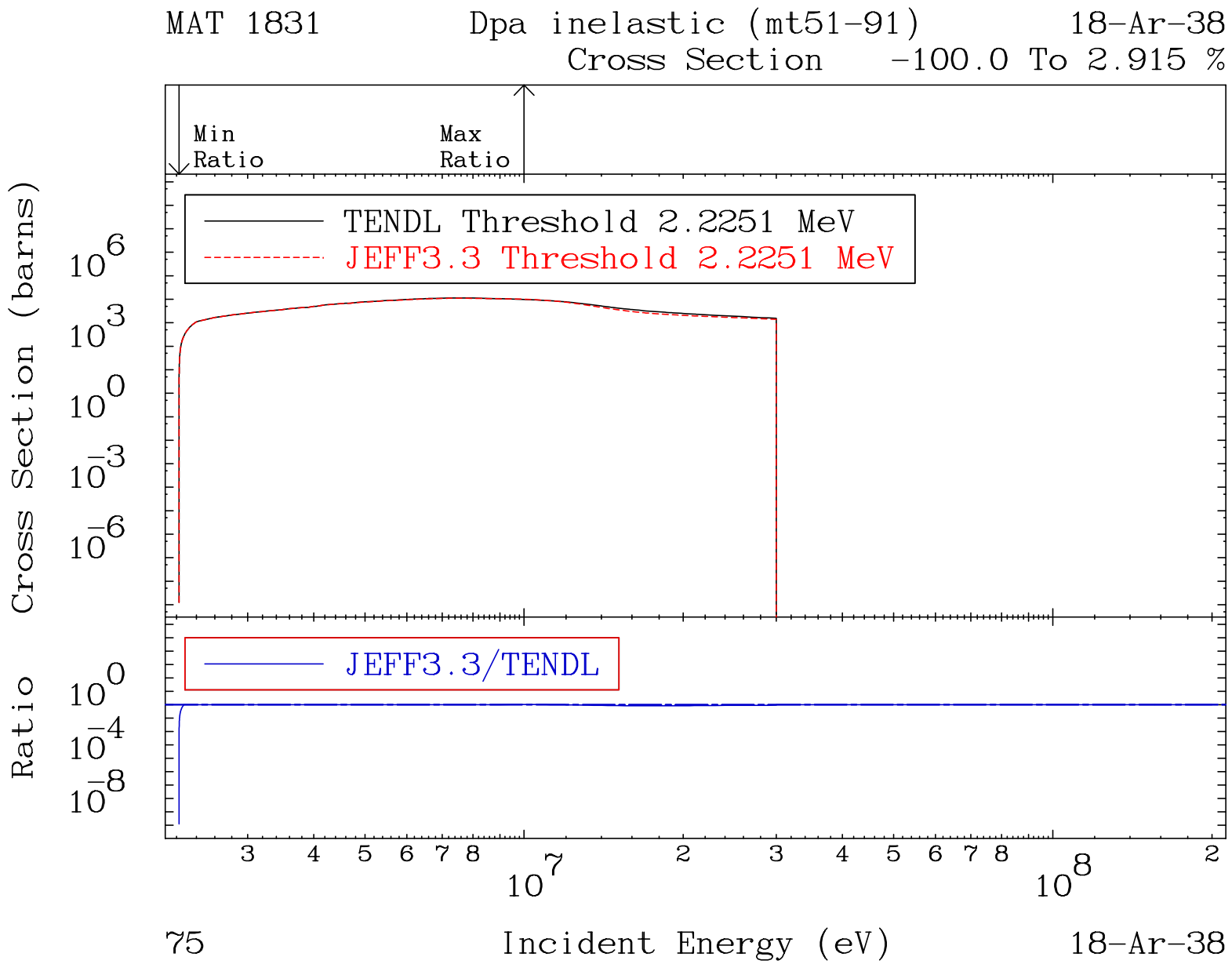

MAT 1831
Kerma capture (mt102)
18-Ar-38
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
70
18-Ar-38

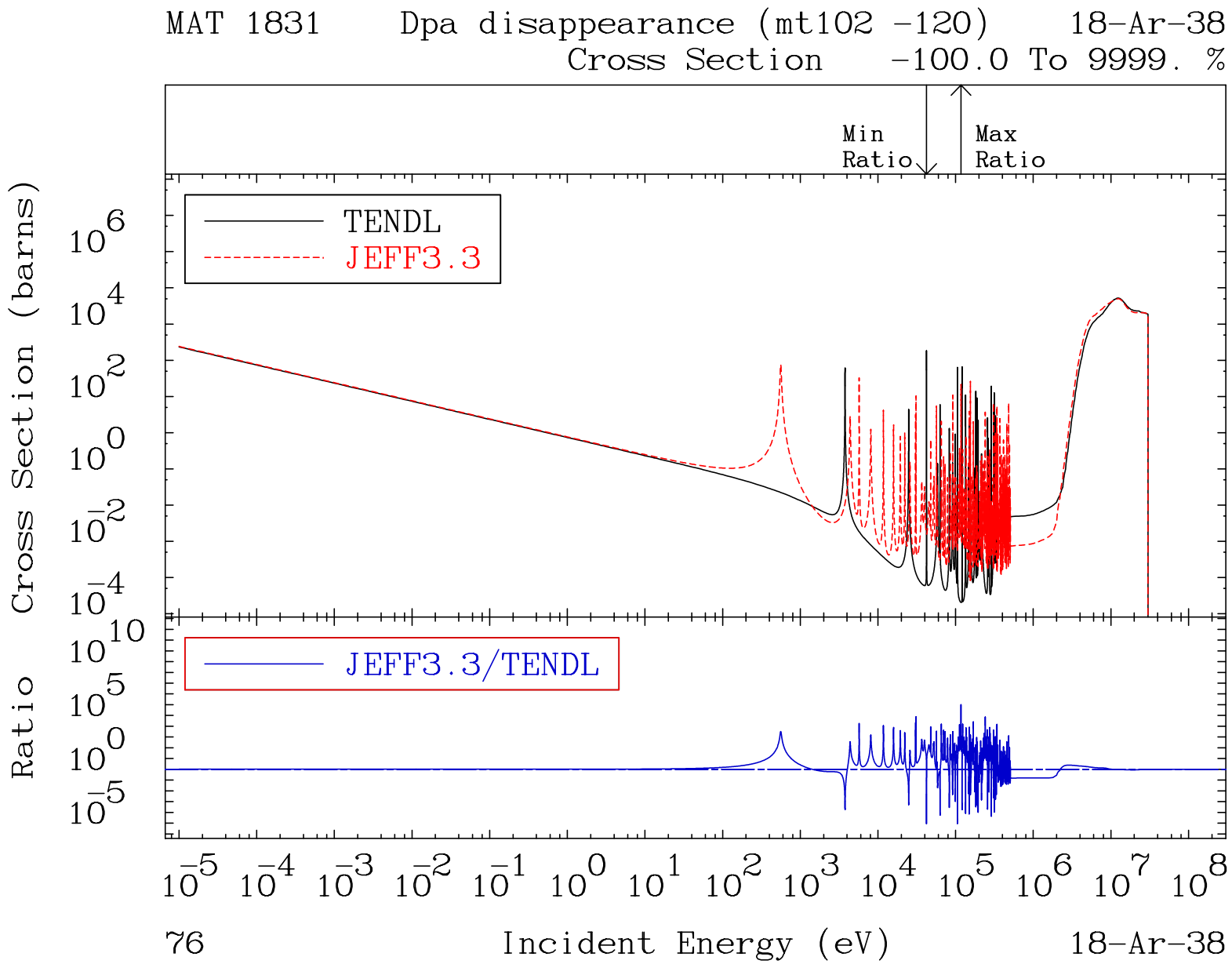

MAT 1831
Total photon (eV-barns)
18-Ar-38
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
71
18-Ar-38

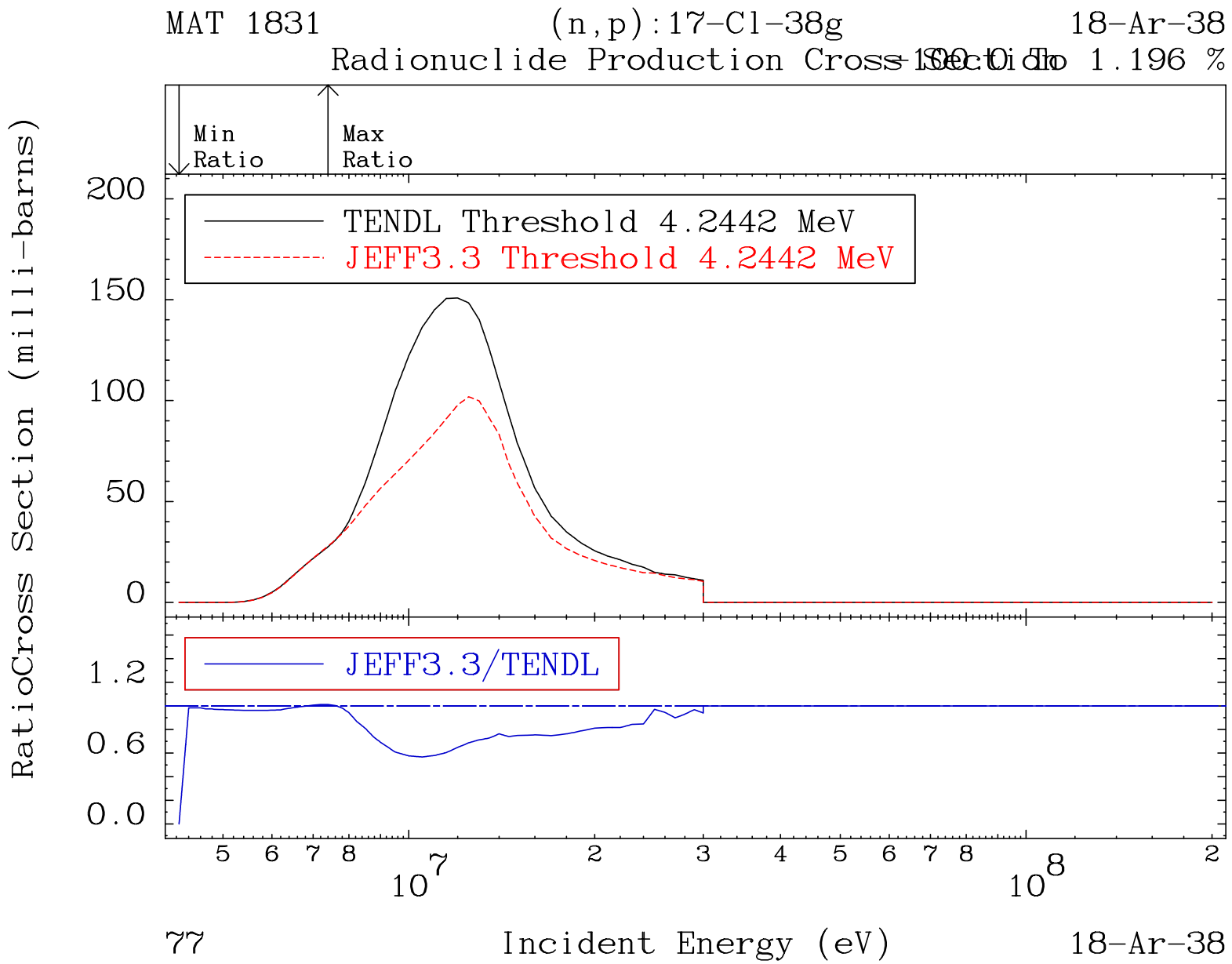

MAT 1831 Total kinematic kerma (high limit) 18-Ar-38
Cross Section -99.97 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
72
18-Ar-38

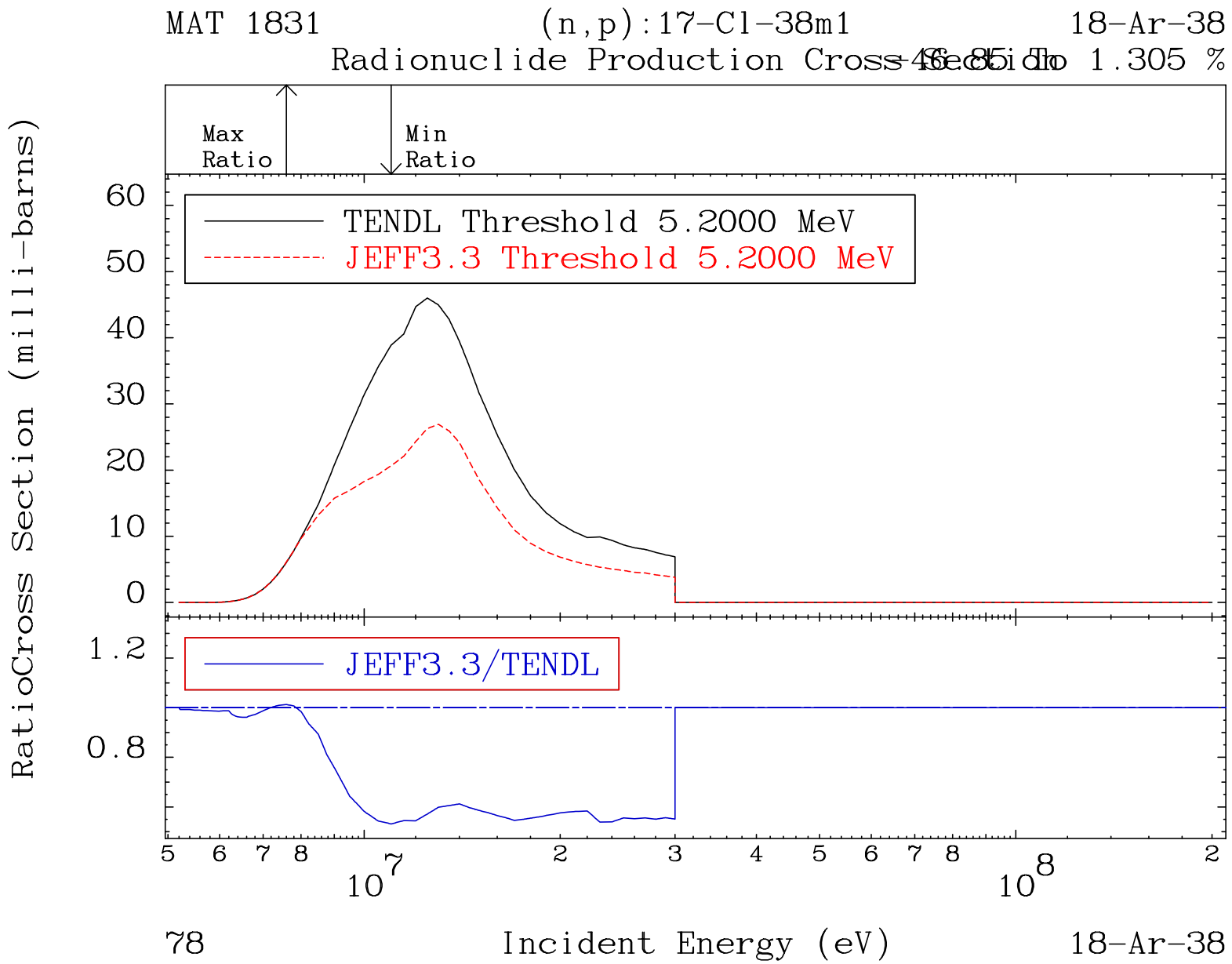

MAT 1831
Dpa total (eV-barns)
18-Ar-38
Cross Section
-99.97 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
73
18-Ar-38


MAT 1831
Dpa elastic (mt2)
Cross Section
18-Ar-38
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 237.50 eV
JEFF3.3 Threshold 242.19 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
18-Ar-38


MAT 1831
Dpa inelastic (mt51-91)
18-Ar-38
Cross Section -100.0 To 2.915 %
Min Ratio
Max Ratio
TENDL Threshold 2.2251 MeV
JEFF3.3 Threshold 2.2251 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
75
18-Ar-38


MAT 1831 Dpa disappearance (mt102 -120) 18-Ar-38
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
18-Ar-38


MAT 1831
(n,p):17-Cl-38g
18-Ar-38
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 4.2442 MeV
JEFF3.3 Threshold 4.2442 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
77
18-Ar-38


MAT 1831
(n,p):17-Cl-38m1
18-Ar-38
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 5.2000 MeV
JEFF3.3 Threshold 5.2000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
78
18-Ar-38