Program Complot
(Version 2018-1)
by
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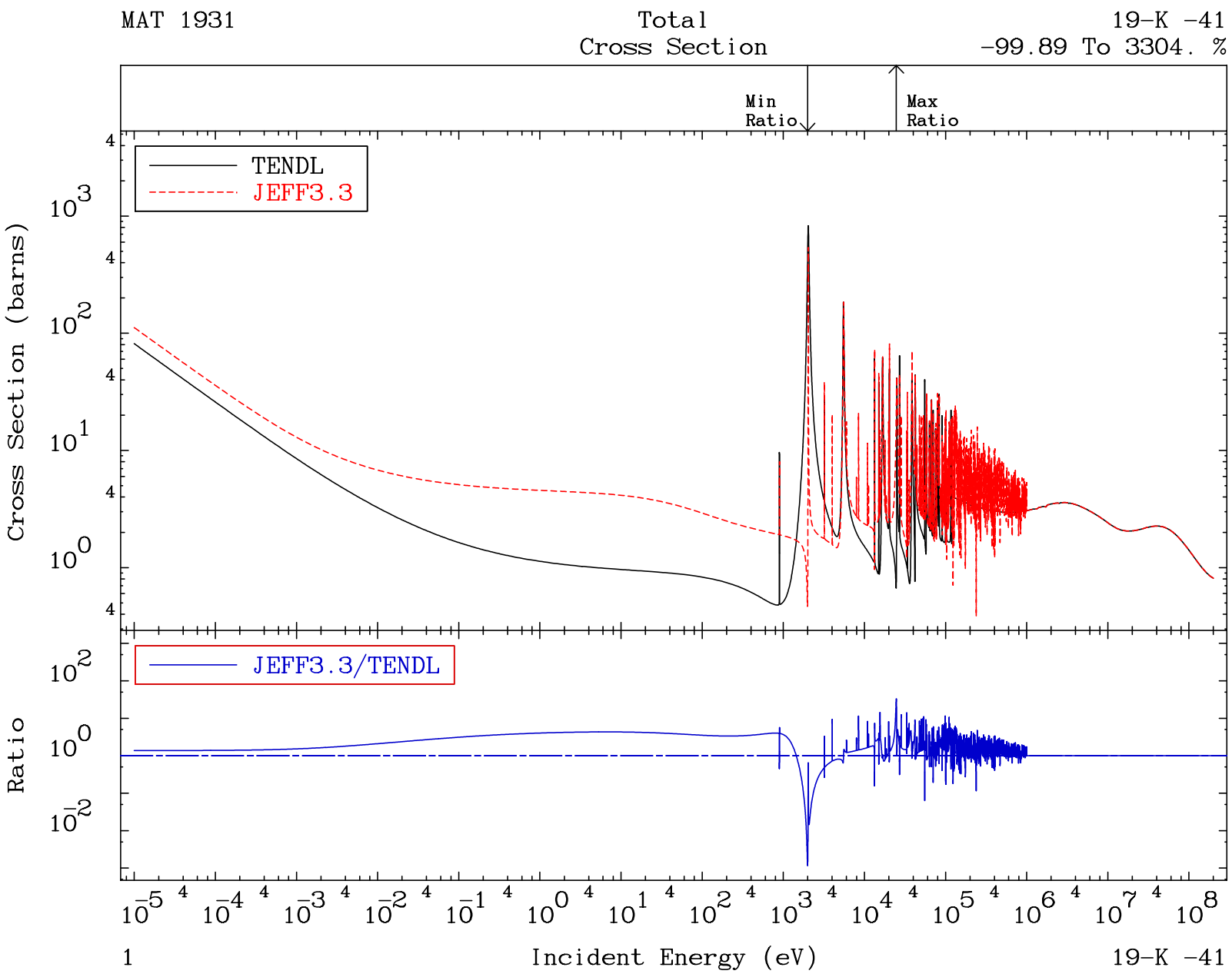
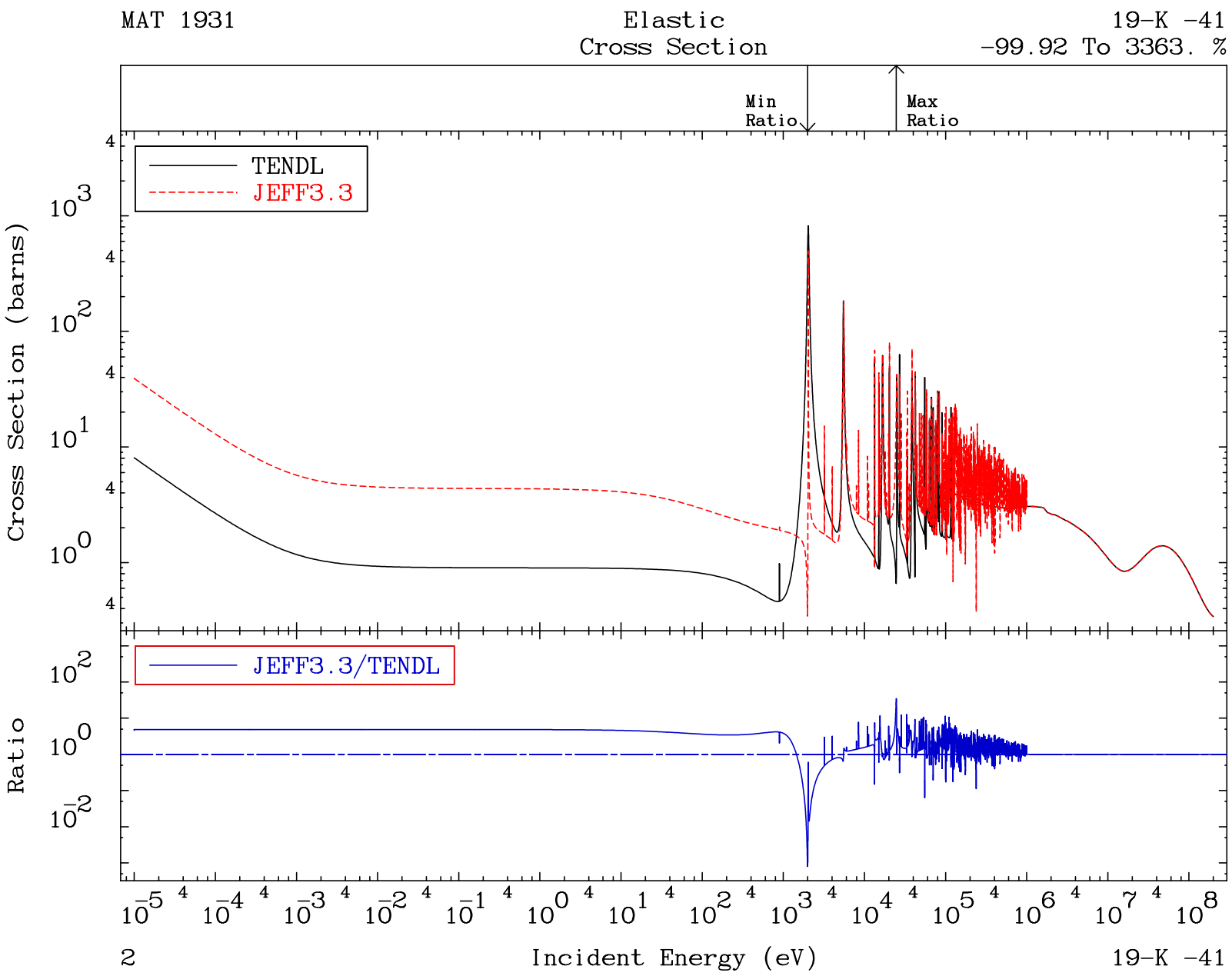
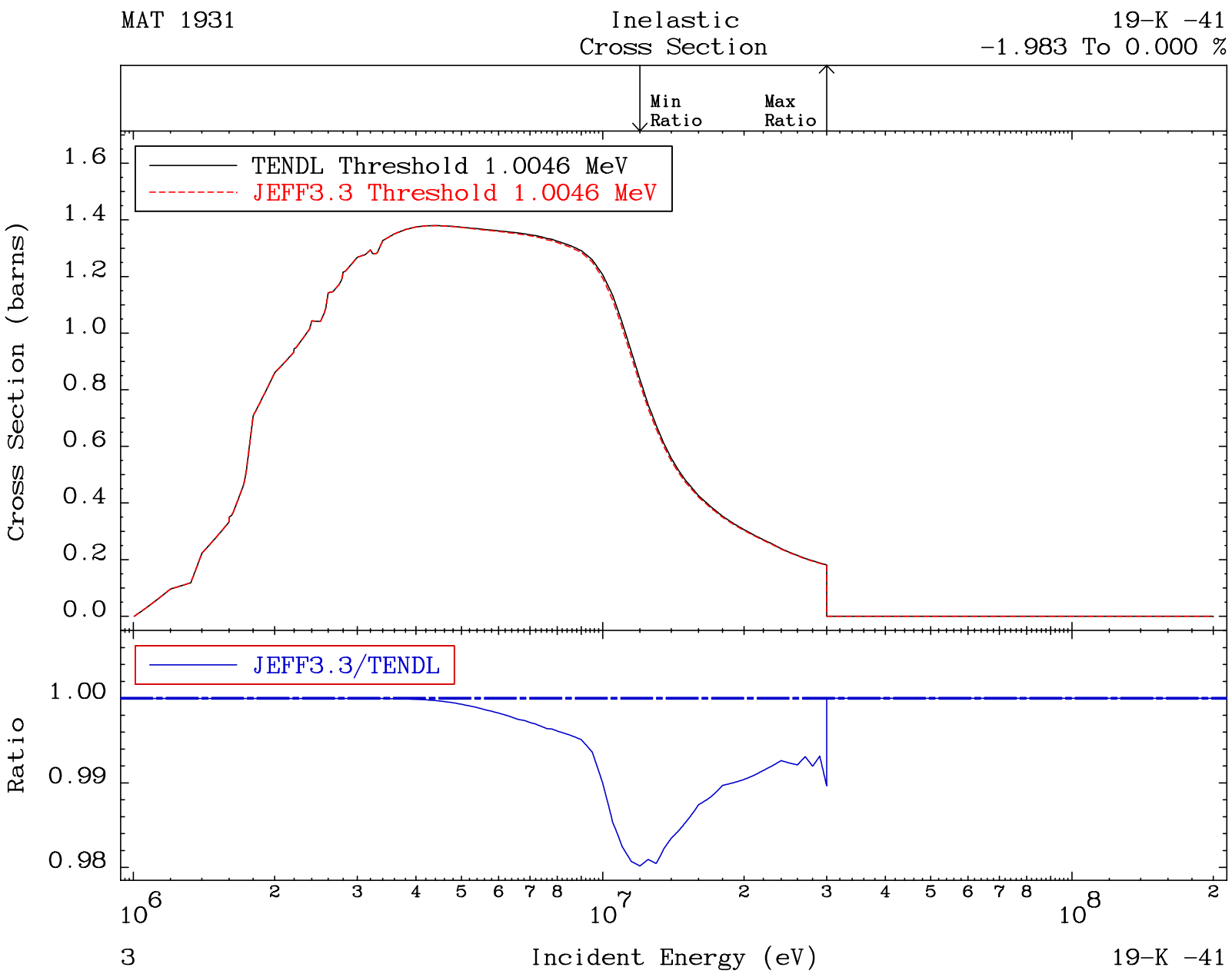
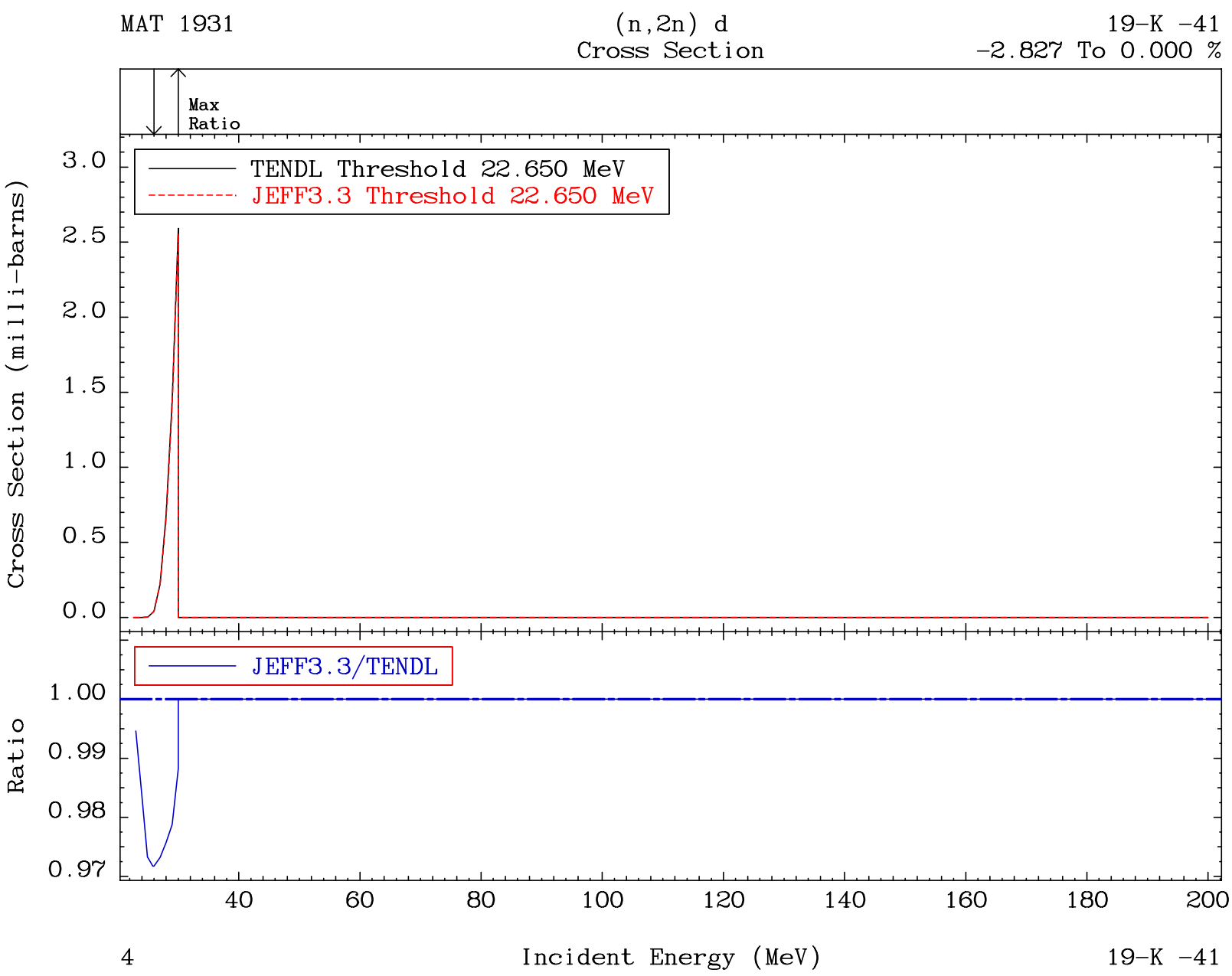
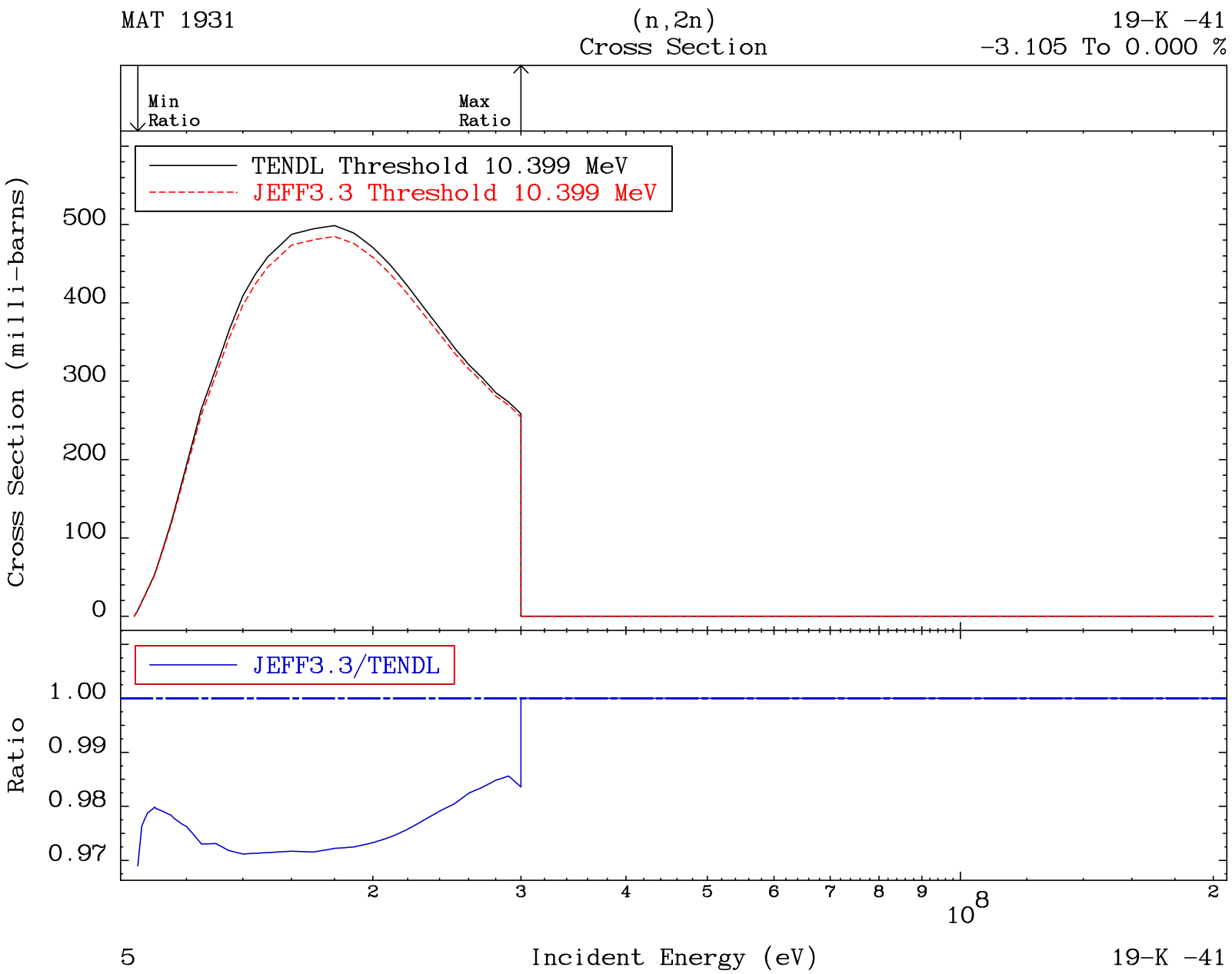
Press Mouse Button to Start

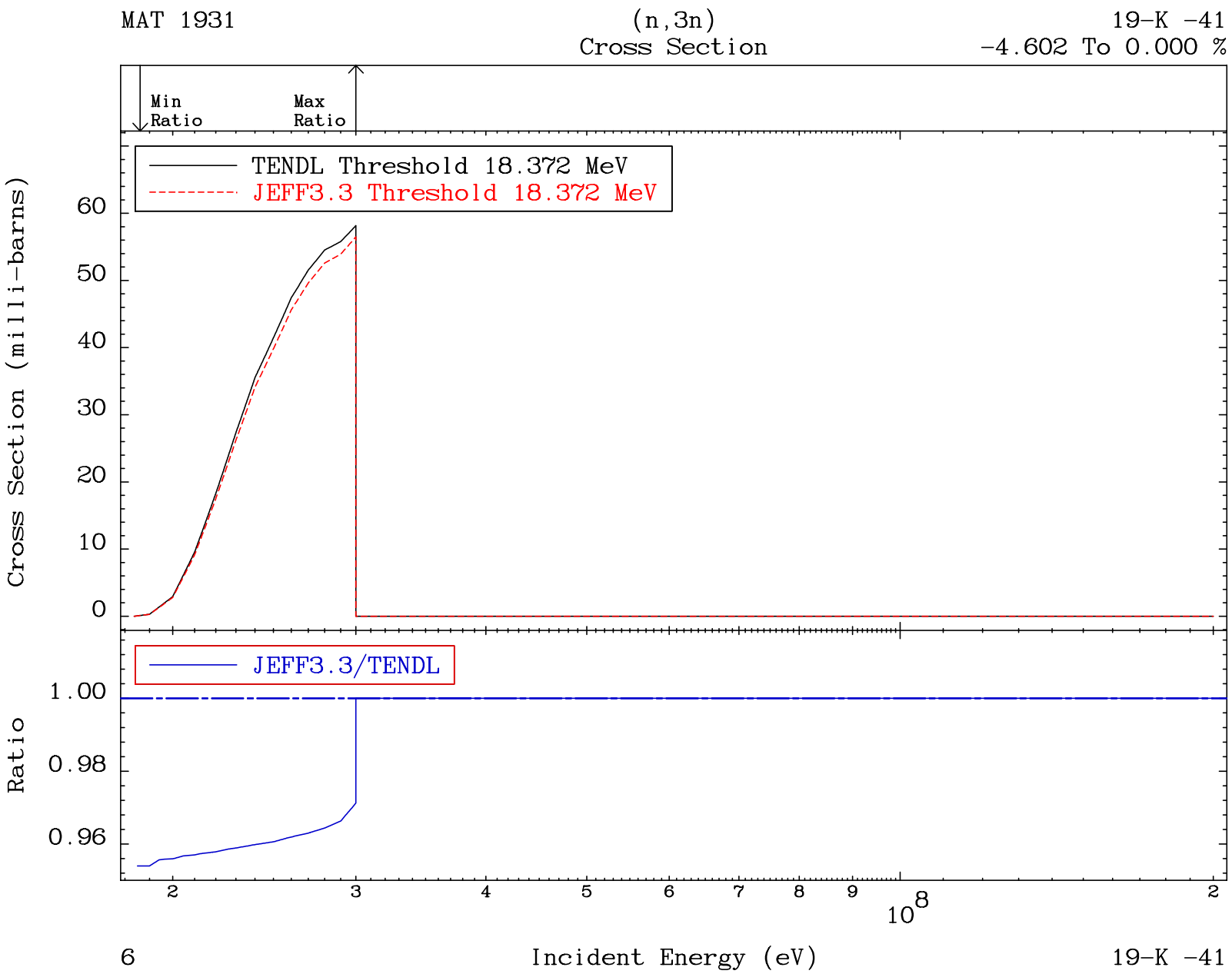

MAT 1931
Total
Cross Section
19-K -41
-99.89 To 3304. %
Min
Ratio
Max
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
1
19-K -41

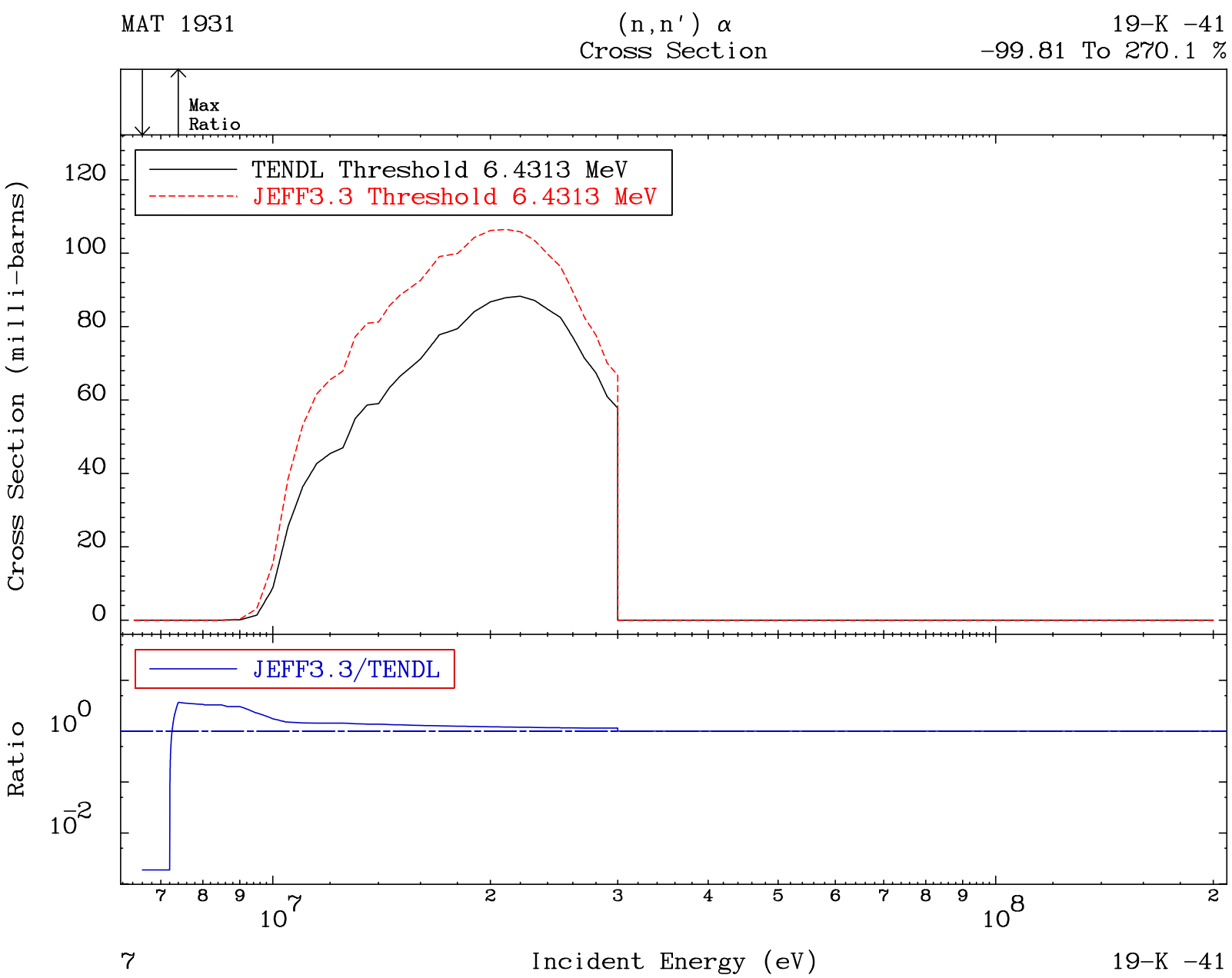

MAT 1931
Elastic
Cross Section
19-K -41
-99.92 To 3363. %
Min
Ratio
Max
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
2
19-K -41

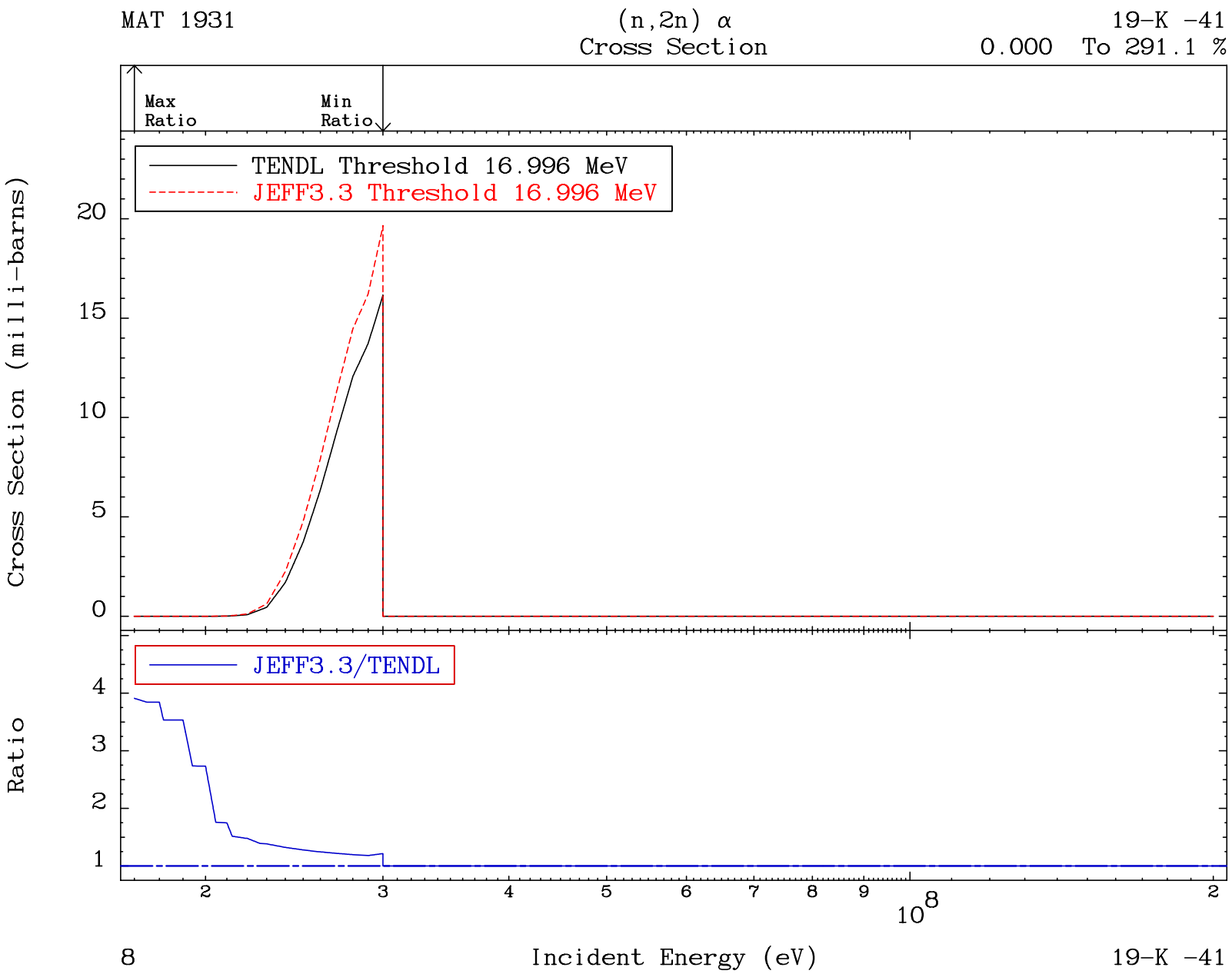

MAT 1931
Inelastic
Cross Section
19-K -41
-1.983 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0046 MeV
JEFF3.3 Threshold 1.0046 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
19-K -41

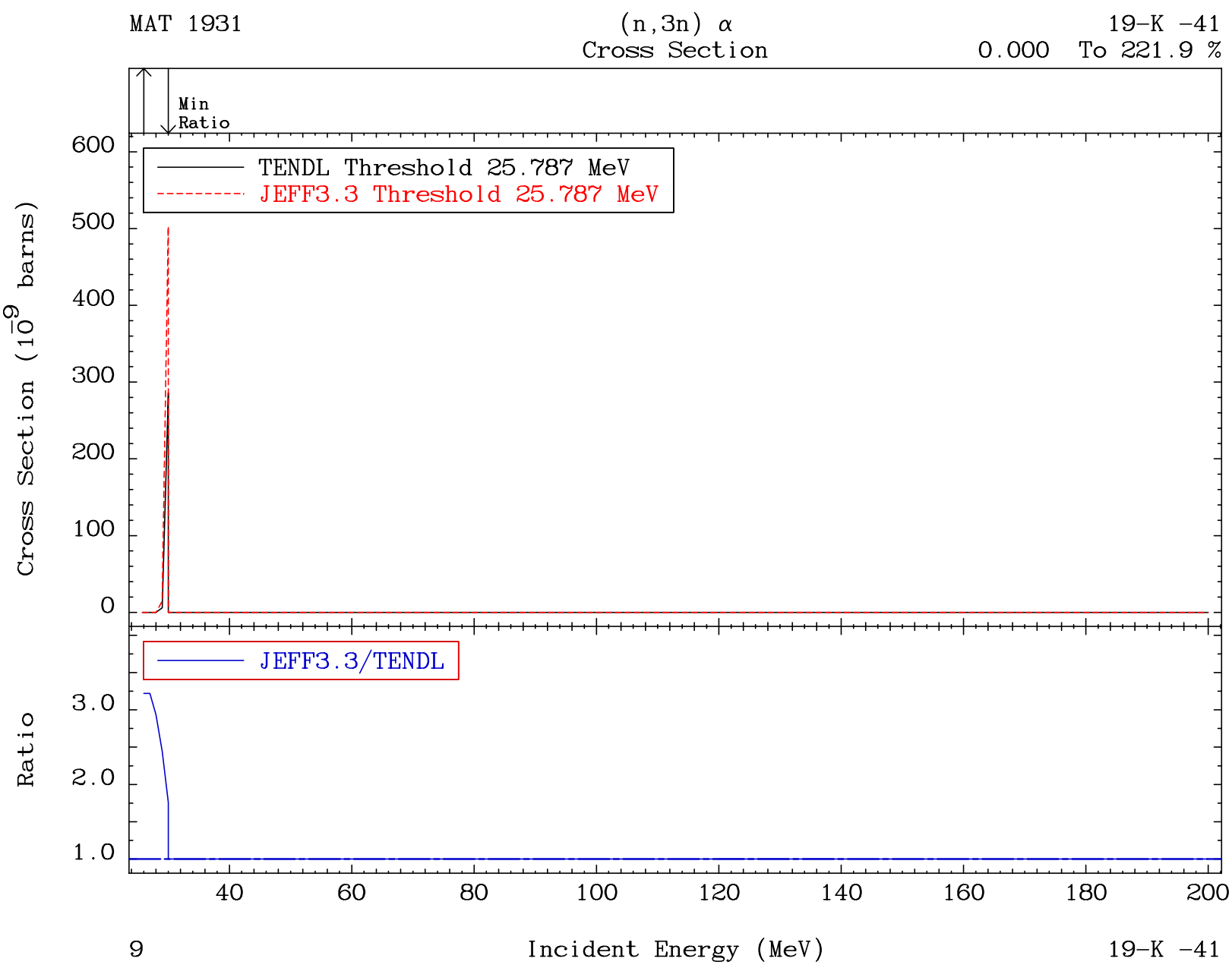

MAT 1931
(n,2n) d
Cross Section
19-K -41
-2.827 To 0.000 %
Max
Ratio
TENDL Threshold 22.650 MeV
JEFF3.3 Threshold 22.650 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
0.97
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
19-K -41

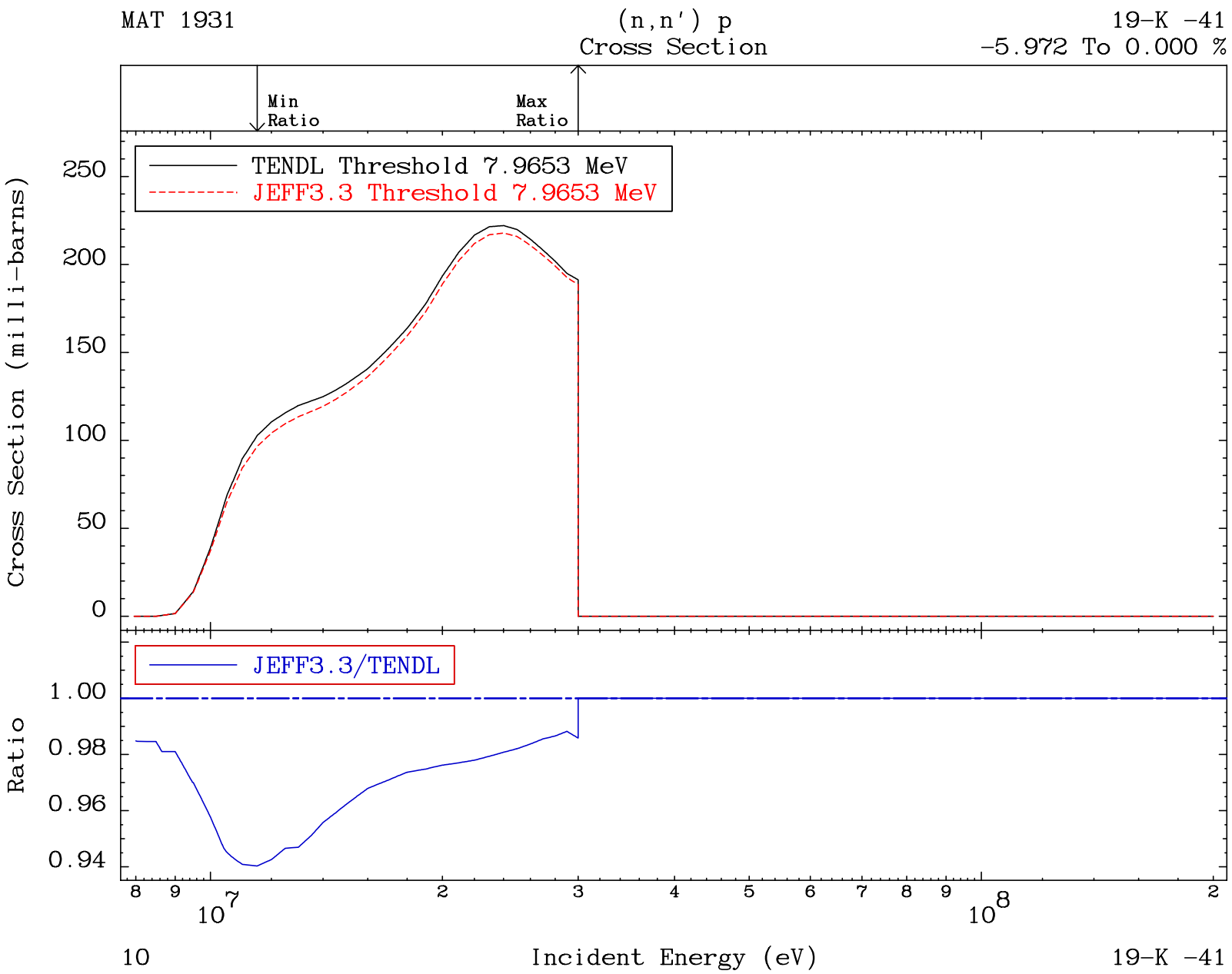

MAT 1931
(n,2n)
Cross Section
19-K -41
-3.105 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 10.399 MeV
JEFF3.3 Threshold 10.399 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
0.97
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
19-K -41

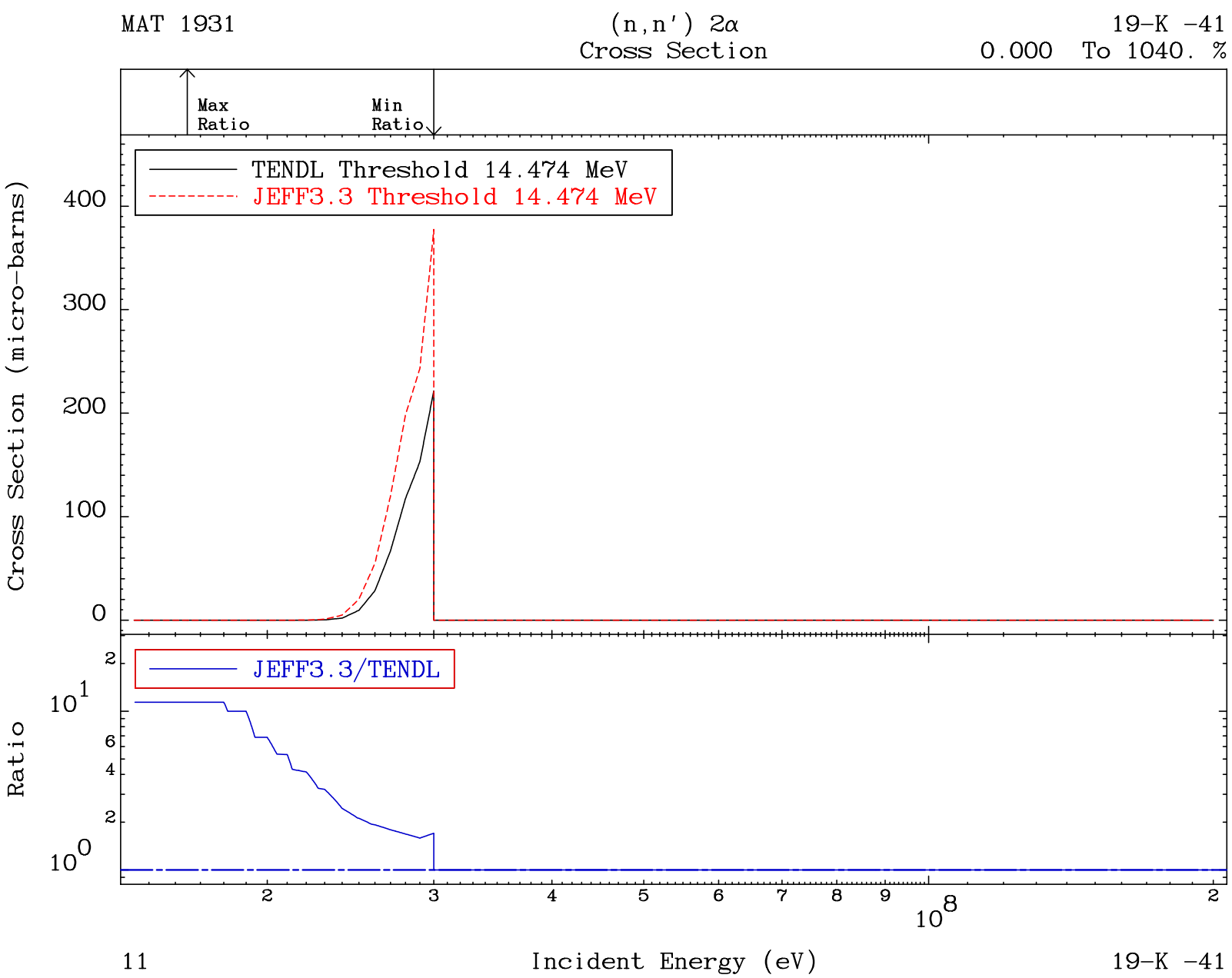

MAT 1931
(n,3n)
Cross Section
19-K -41
-4.602 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 18.372 MeV
JEFF3.3 Threshold 18.372 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.00
0.98
0.96
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
19-K -41

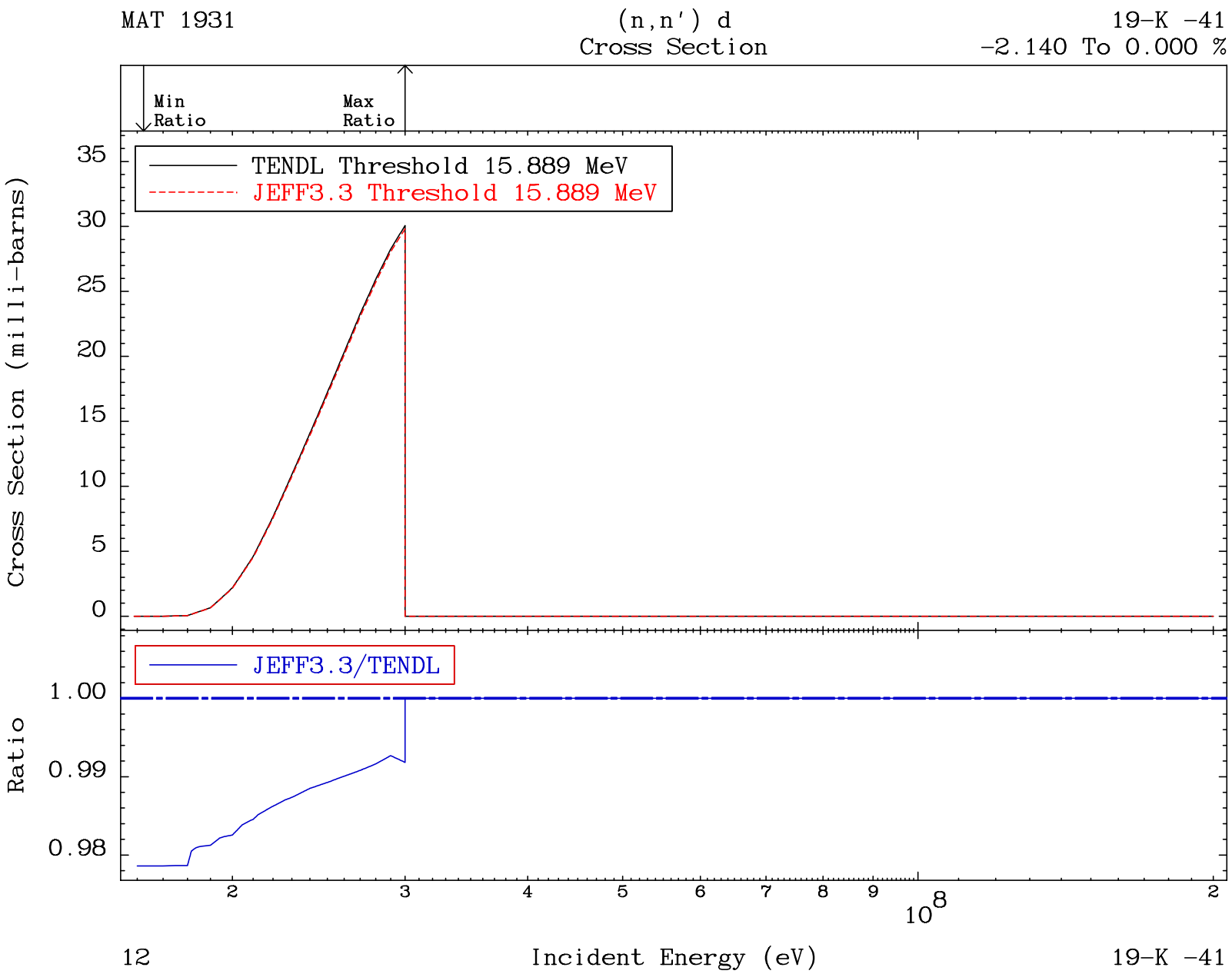

MAT 1931
(n,n') α
Cross Section
19-K -41
-99.81 To 270.1 %
Max
Ratio
TENDL Threshold 6.4313 MeV
JEFF3.3 Threshold 6.4313 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^0
10^-2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
19-K -41

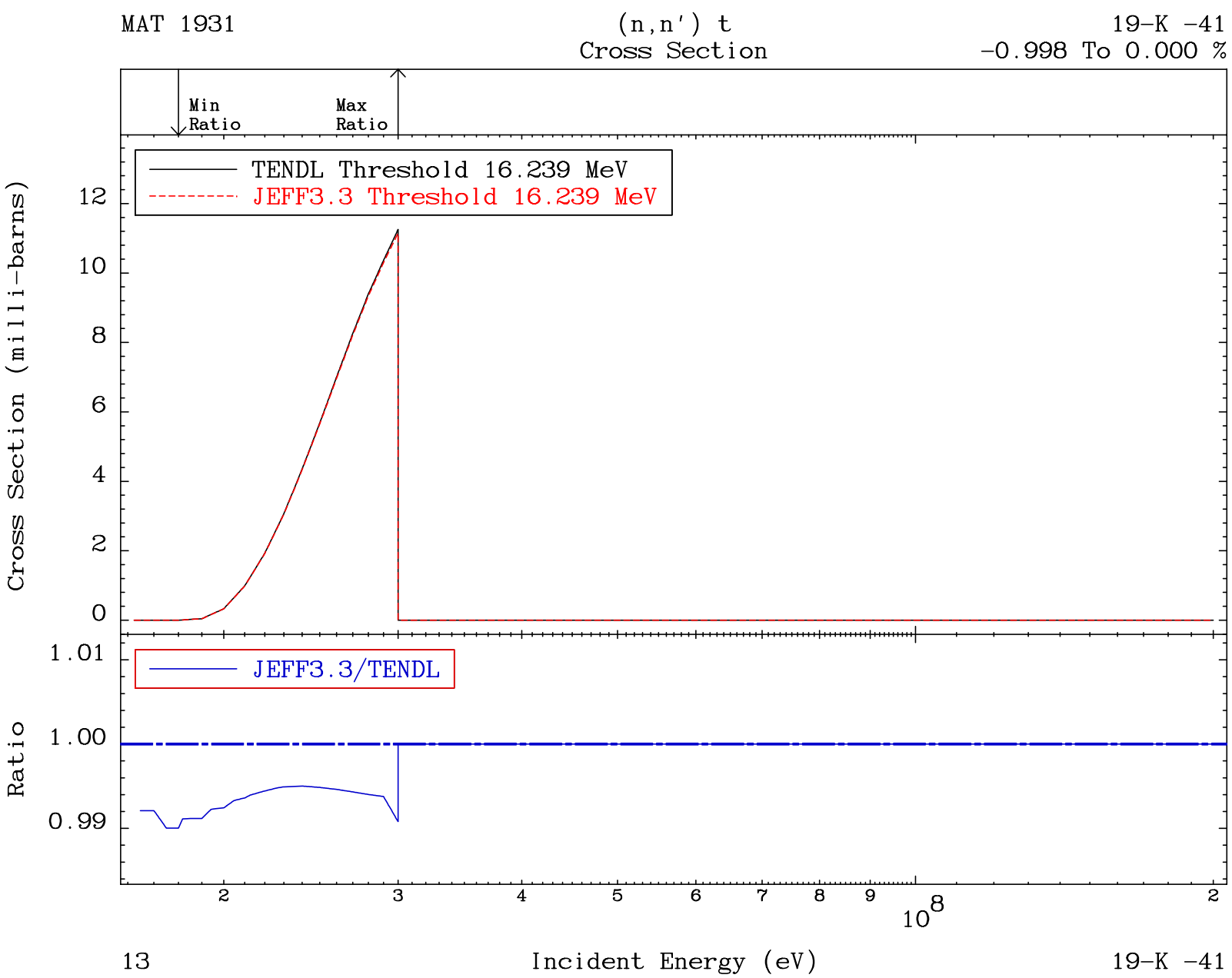

MAT 1931
(n,2n) α
Cross Section
19-K -41
0.000 To 291.1 %
Max Ratio
Min Ratio
TENDL Threshold 16.996 MeV
JEFF3.3 Threshold 16.996 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
4
3
2
1
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
19-K -41

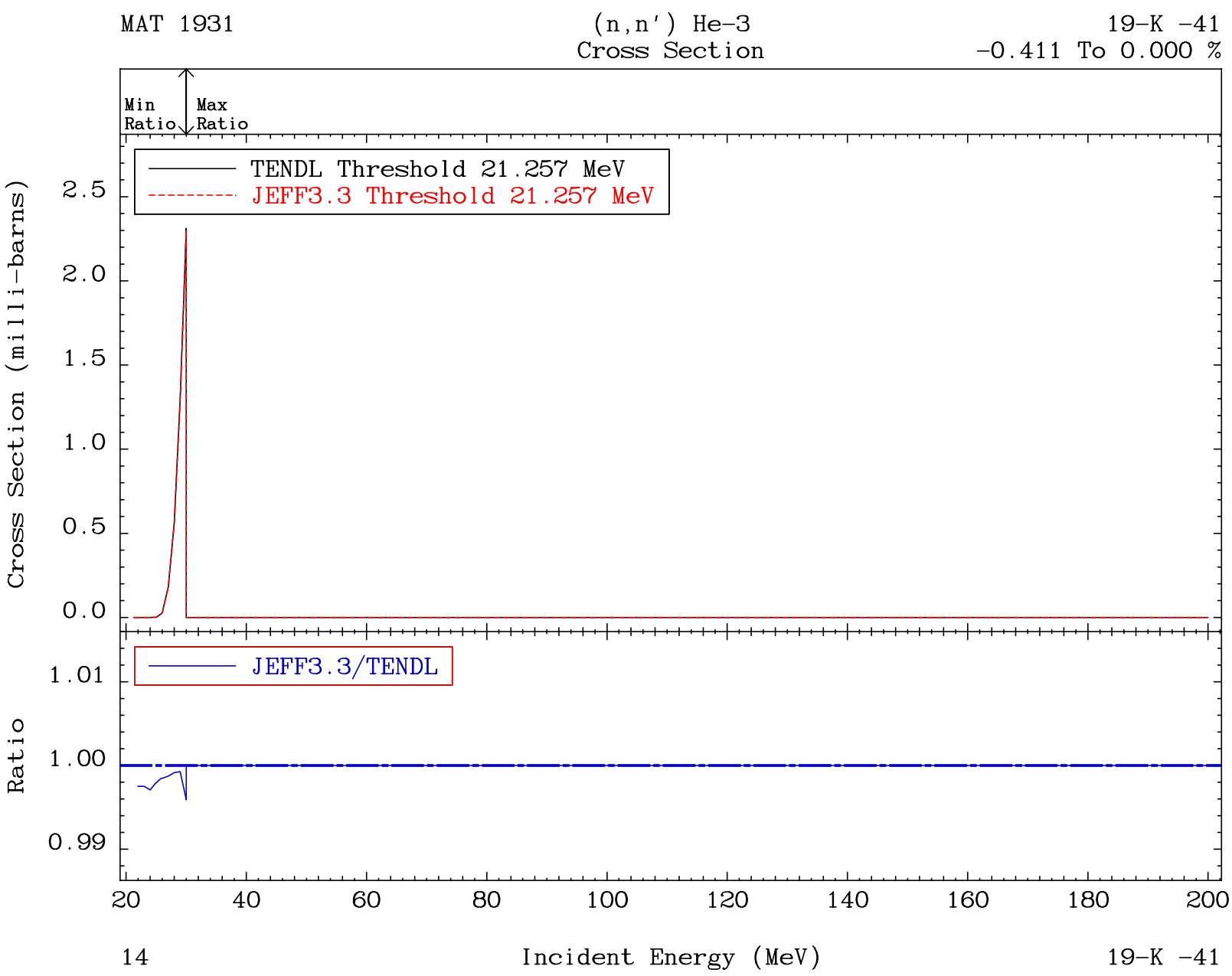

MAT 1931
(n,3n) α
Cross Section
19-K -41
0.000 To 221.9 %
Min
Ratio
TENDL Threshold 25.787 MeV
JEFF3.3 Threshold 25.787 MeV
JEFF3.3/TENDL
Cross Section (10^-9 barns)
Ratio
Incident Energy (MeV)
9
19-K -41

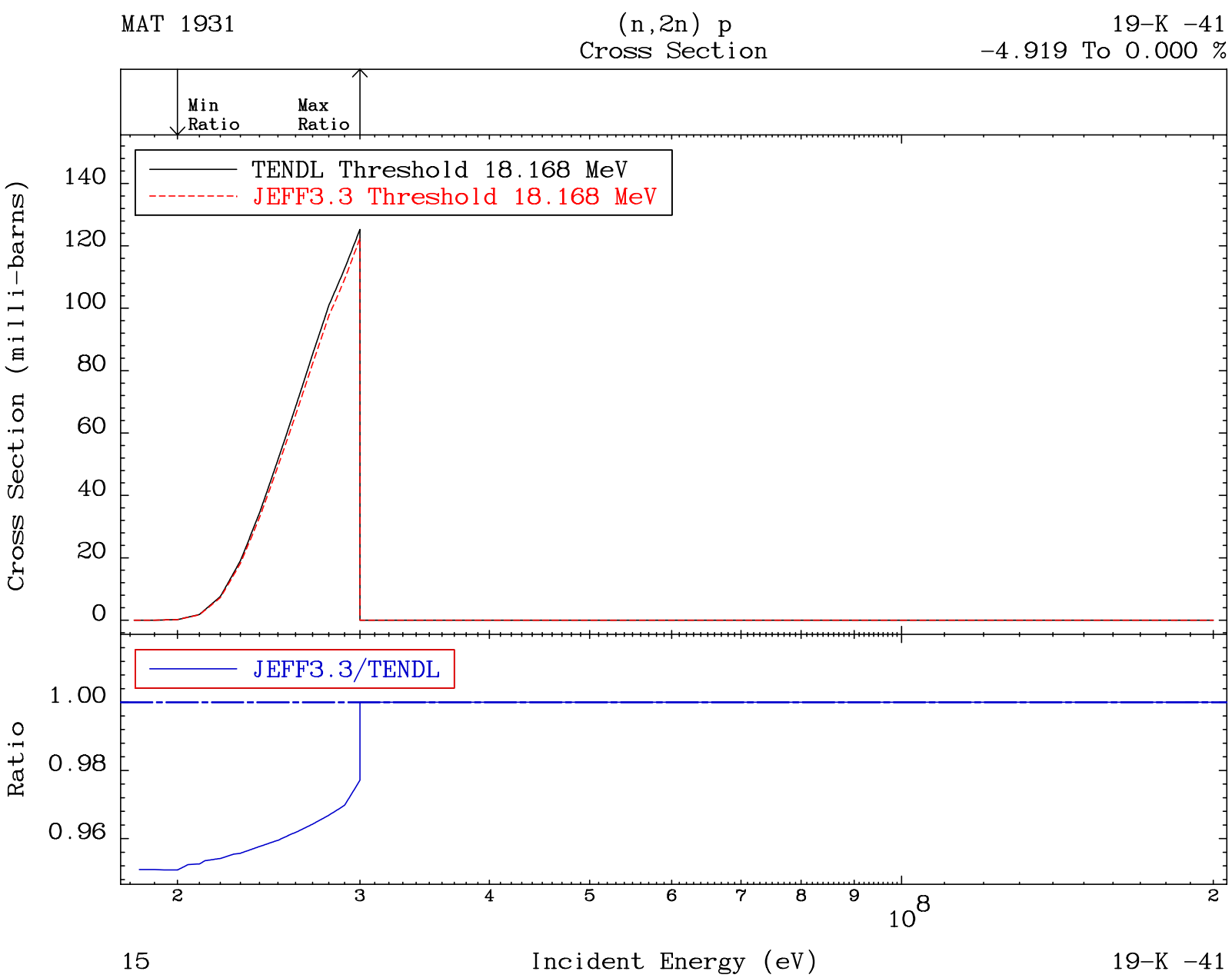

MAT 1931
(n,n') p
Cross Section
19-K -41
-5.972 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 7.9653 MeV
JEFF3.3 Threshold 7.9653 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.00
0.98
0.96
0.94
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
19-K -41

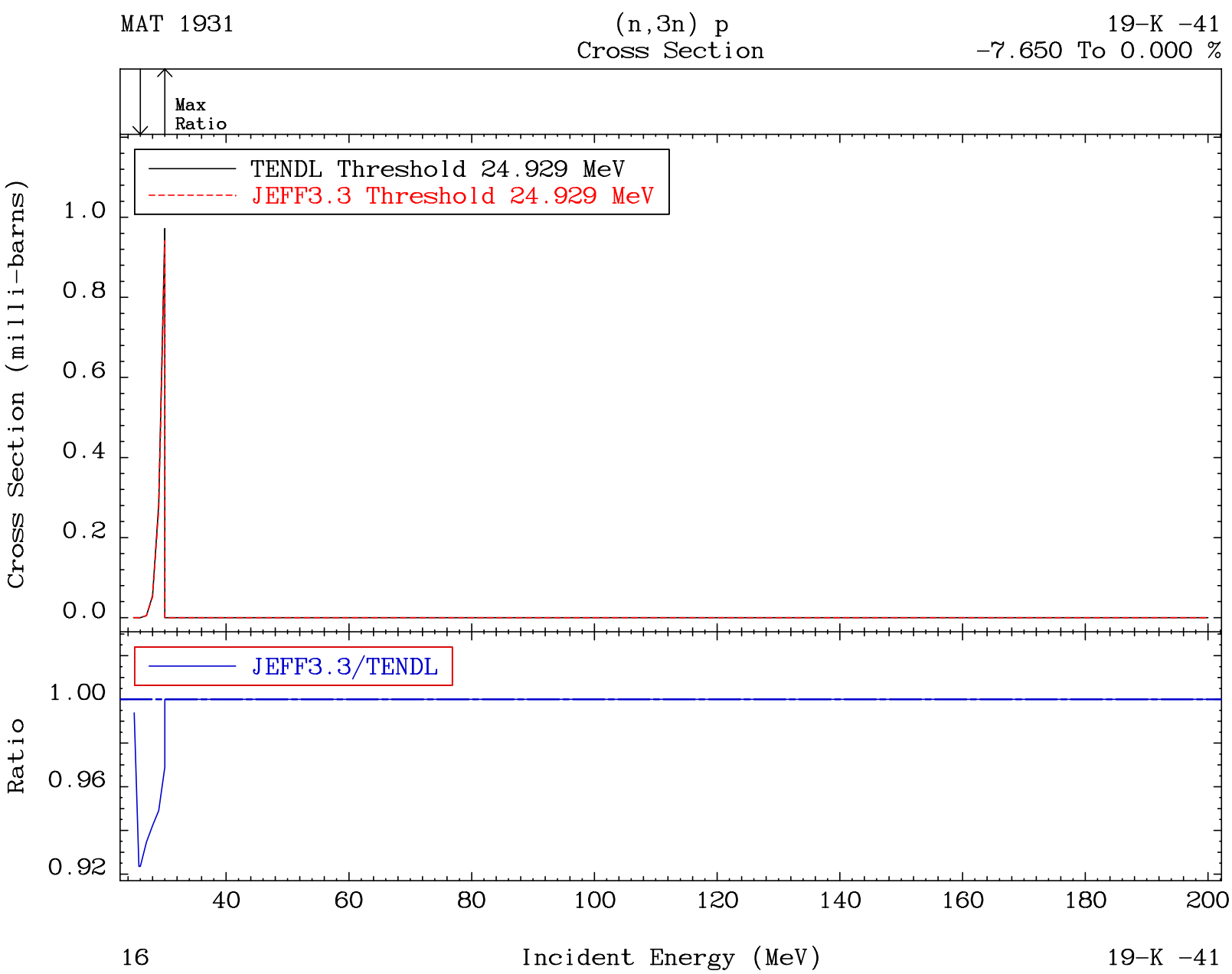

MAT 1931
(n,n') 2α
Cross Section
19-K -41
0.000 To 1040. %
Max Ratio
Min Ratio
TENDL Threshold 14.474 MeV
JEFF3.3 Threshold 14.474 MeV
Cross Section (micro-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^1
10^0
2
6
4
2
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
19-K -41

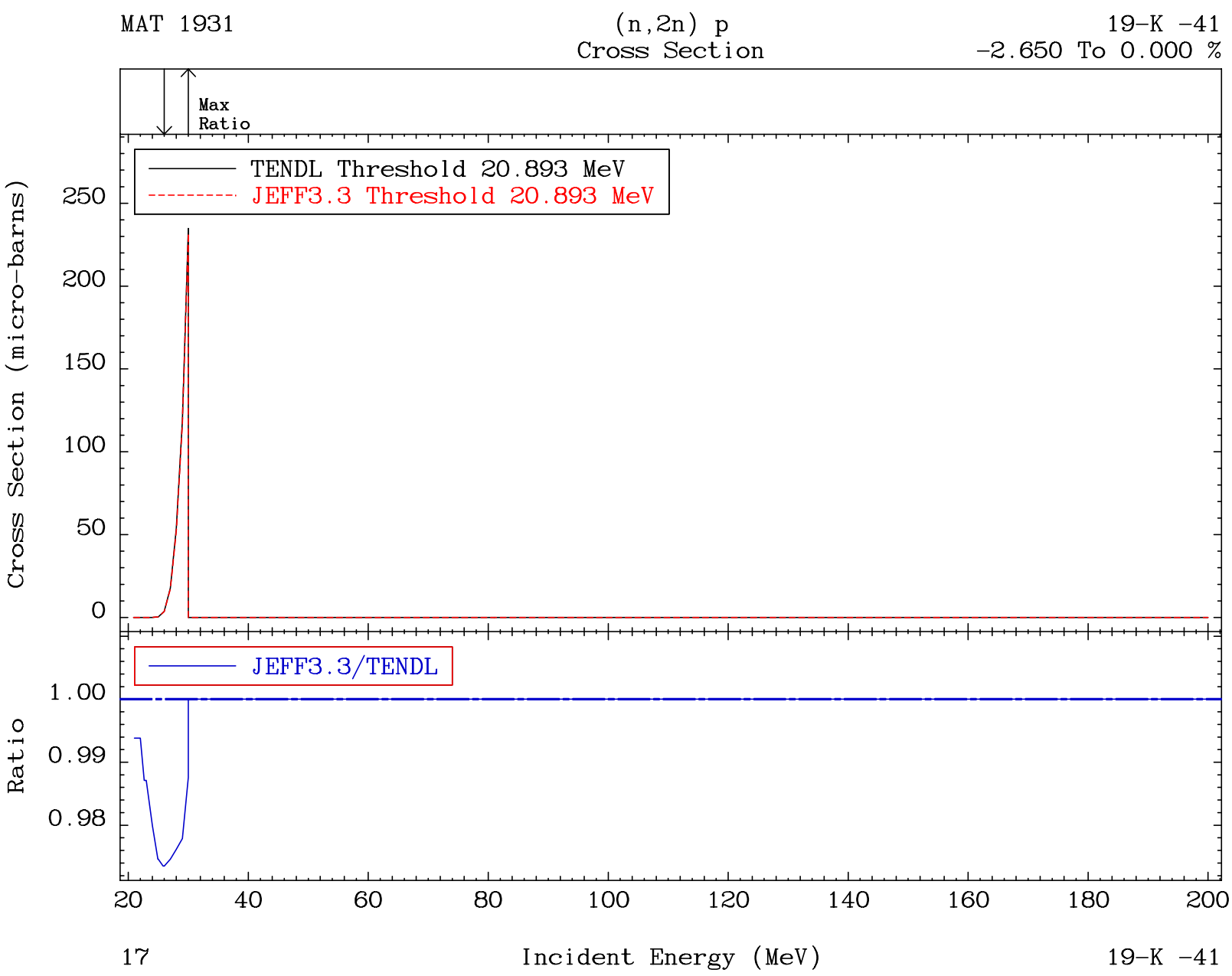

MAT 1931
(n,n') d
Cross Section
19-K -41
-2.140 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 15.889 MeV
JEFF3.3 Threshold 15.889 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
19-K -41

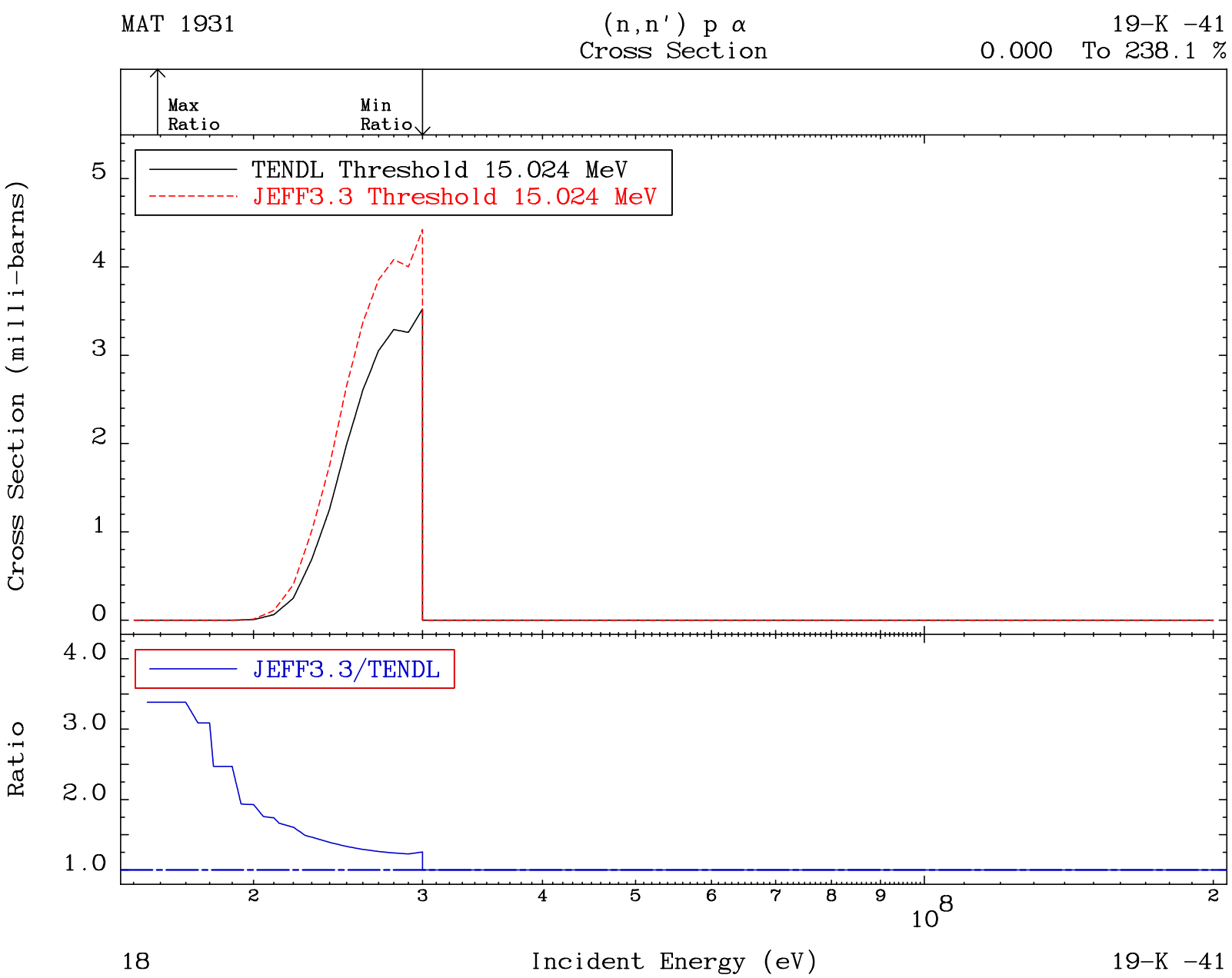

MAT 1931
(n,n') t
Cross Section
19-K -41
-0.998 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 16.239 MeV
JEFF3.3 Threshold 16.239 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
19-K -41

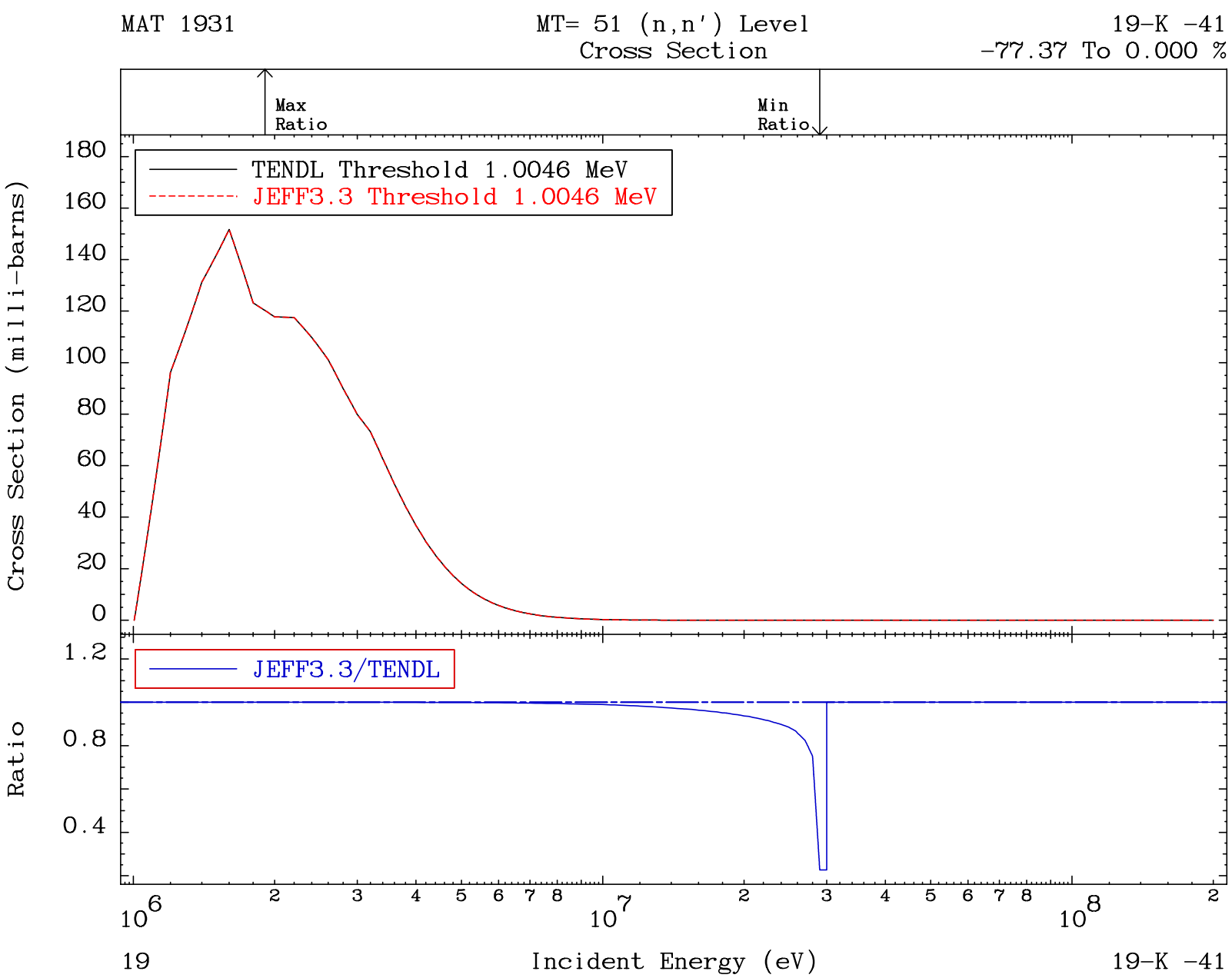

MAT 1931
(n,n') He-3
Cross Section
19-K -41
-0.411 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 21.257 MeV
JEFF3.3 Threshold 21.257 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
19-K -41

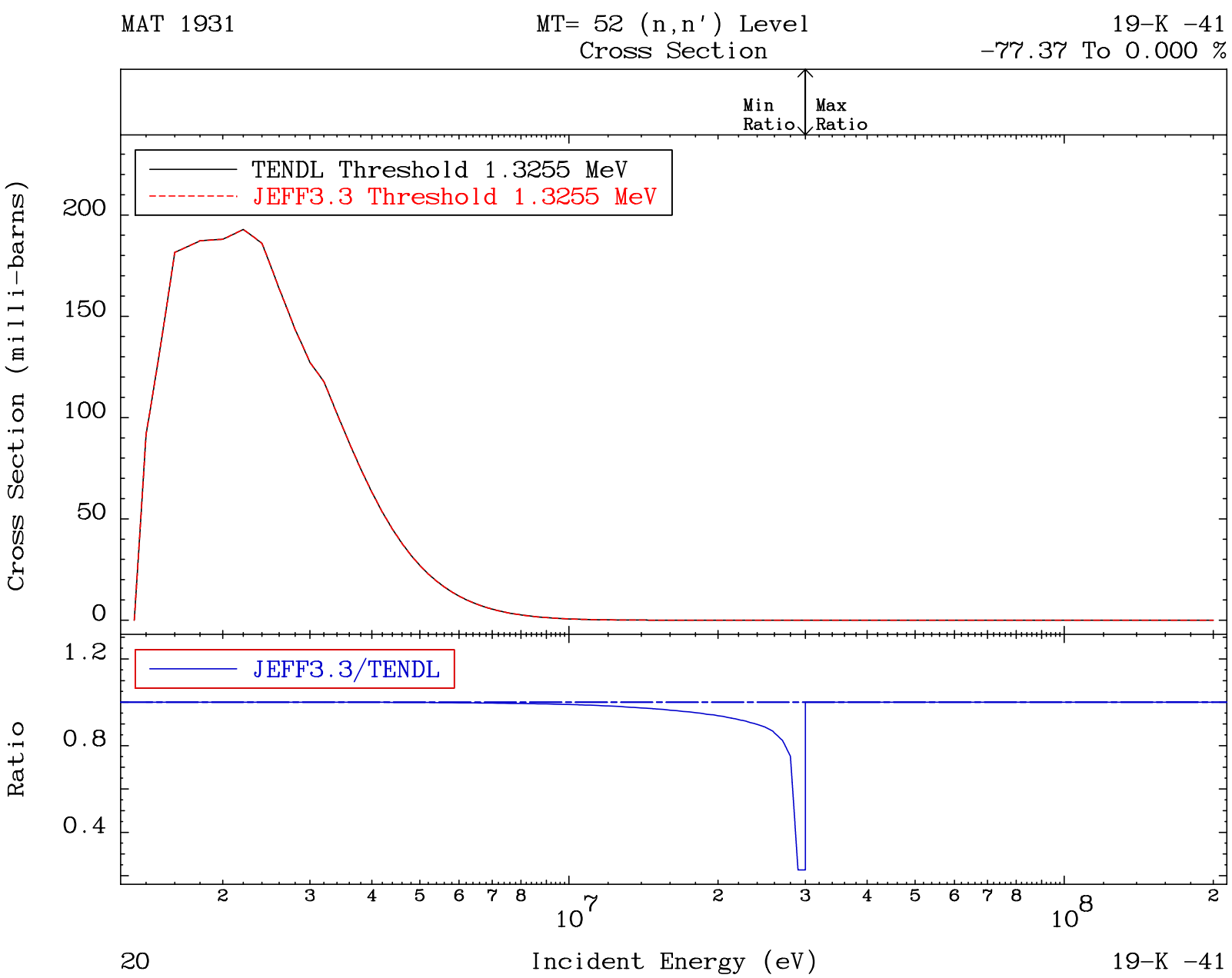

MAT 1931
(n,2n) p
Cross Section
19-K -41
-4.919 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 18.168 MeV
JEFF3.3 Threshold 18.168 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.00
0.98
0.96
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
19-K -41

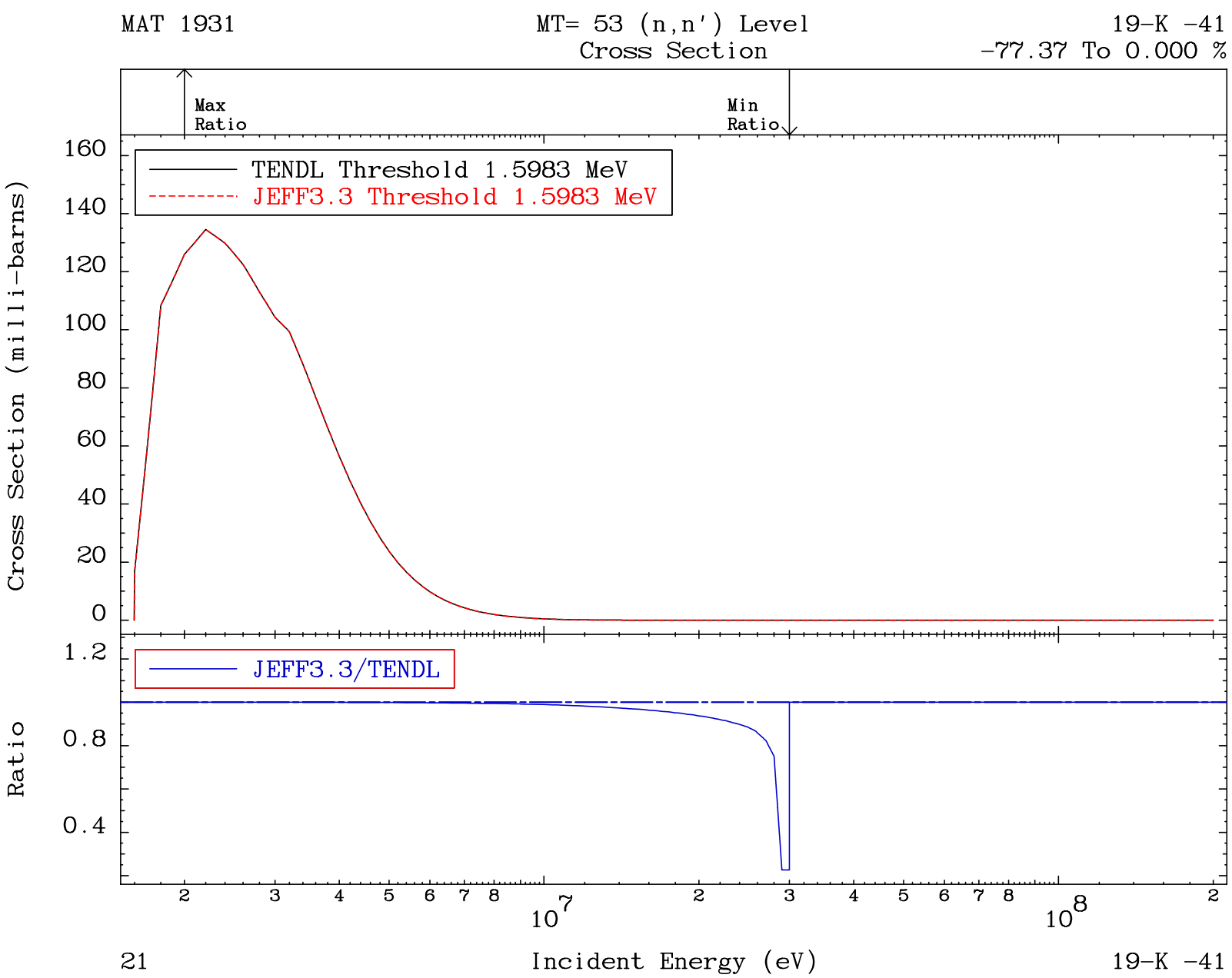

MAT 1931
(n,3n) p
Cross Section
19-K -41
-7.650 To 0.000 %
Max
Ratio
TENDL Threshold 24.929 MeV
JEFF3.3 Threshold 24.929 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.00
0.96
0.92
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
19-K -41

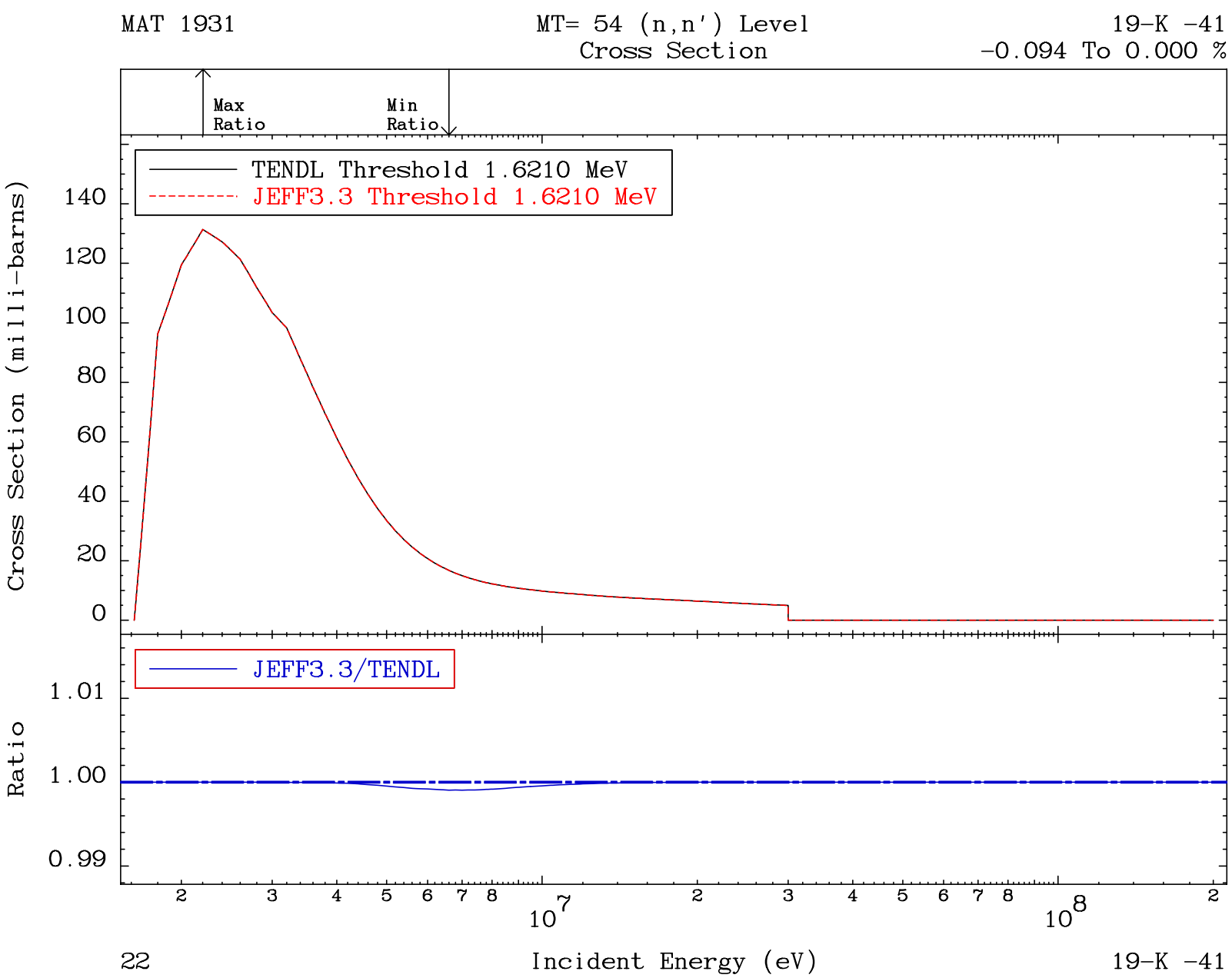

MAT 1931
(n,2n) p
Cross Section
19-K -41
-2.650 To 0.000 %
Max
Ratio
TENDL Threshold 20.893 MeV
JEFF3.3 Threshold 20.893 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
20
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
19-K -41

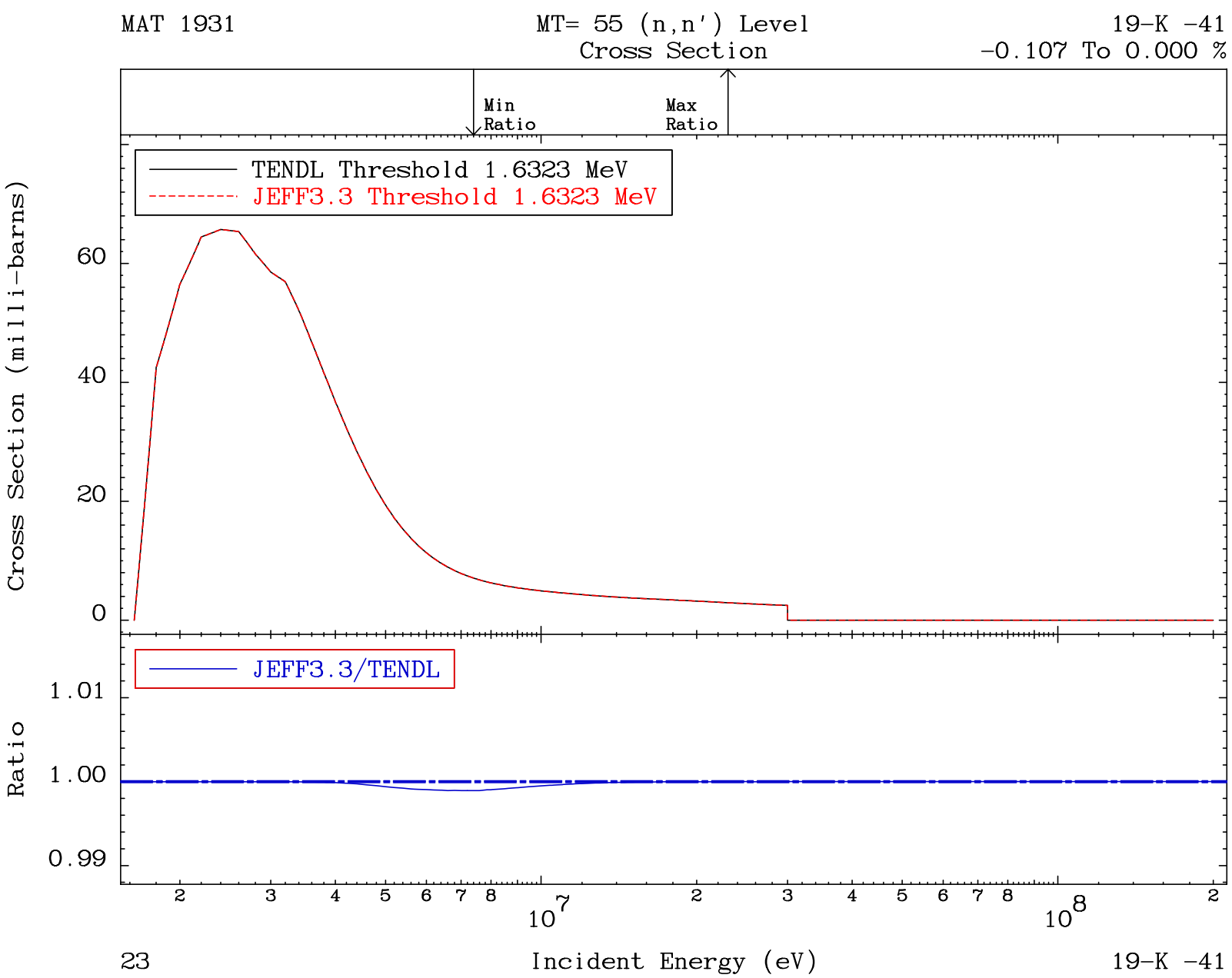

MAT 1931
(n,n') p α
Cross Section
19-K -41
0.000 To 238.1 %
Max Ratio
Min Ratio
TENDL Threshold 15.024 MeV
JEFF3.3 Threshold 15.024 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
1.0
2.0
3.0
4.0
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
19-K -41

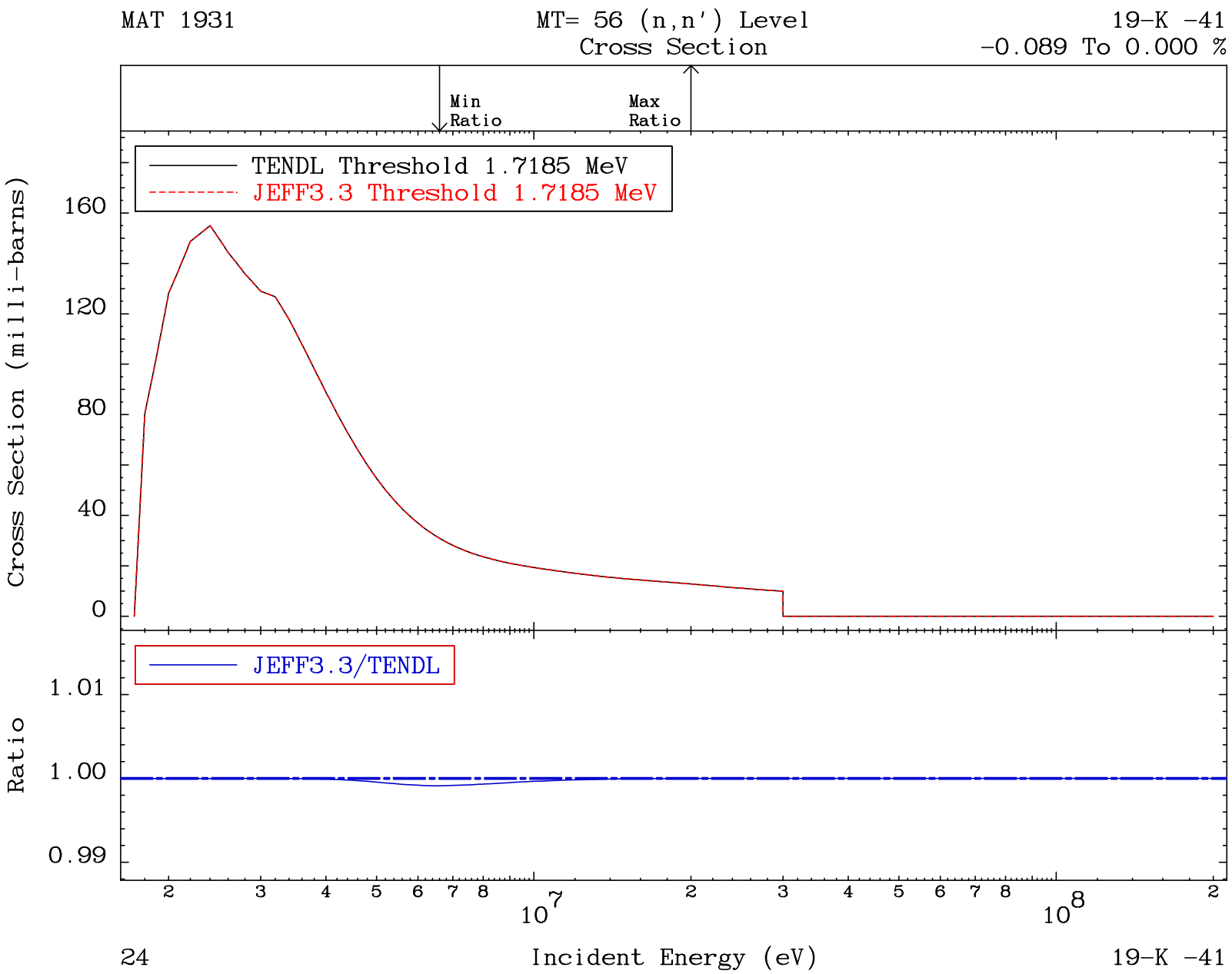

MAT 1931
MT= 51 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.0046 MeV
JEFF3.3 Threshold 1.0046 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
19
Incident Energy (eV)
19-K -41

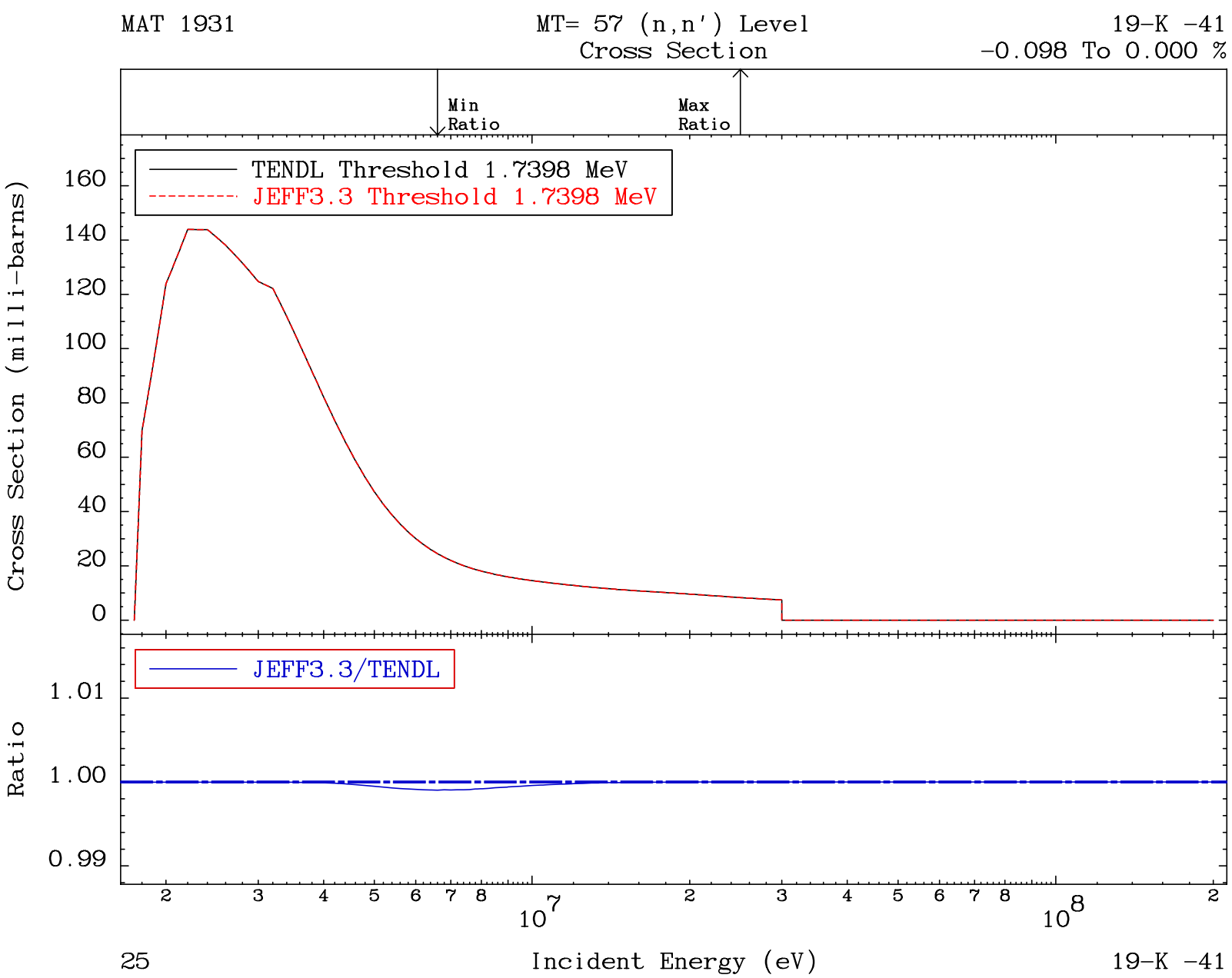

MAT 1931
MT= 52 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.3255 MeV
JEFF3.3 Threshold 1.3255 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
19-K -41

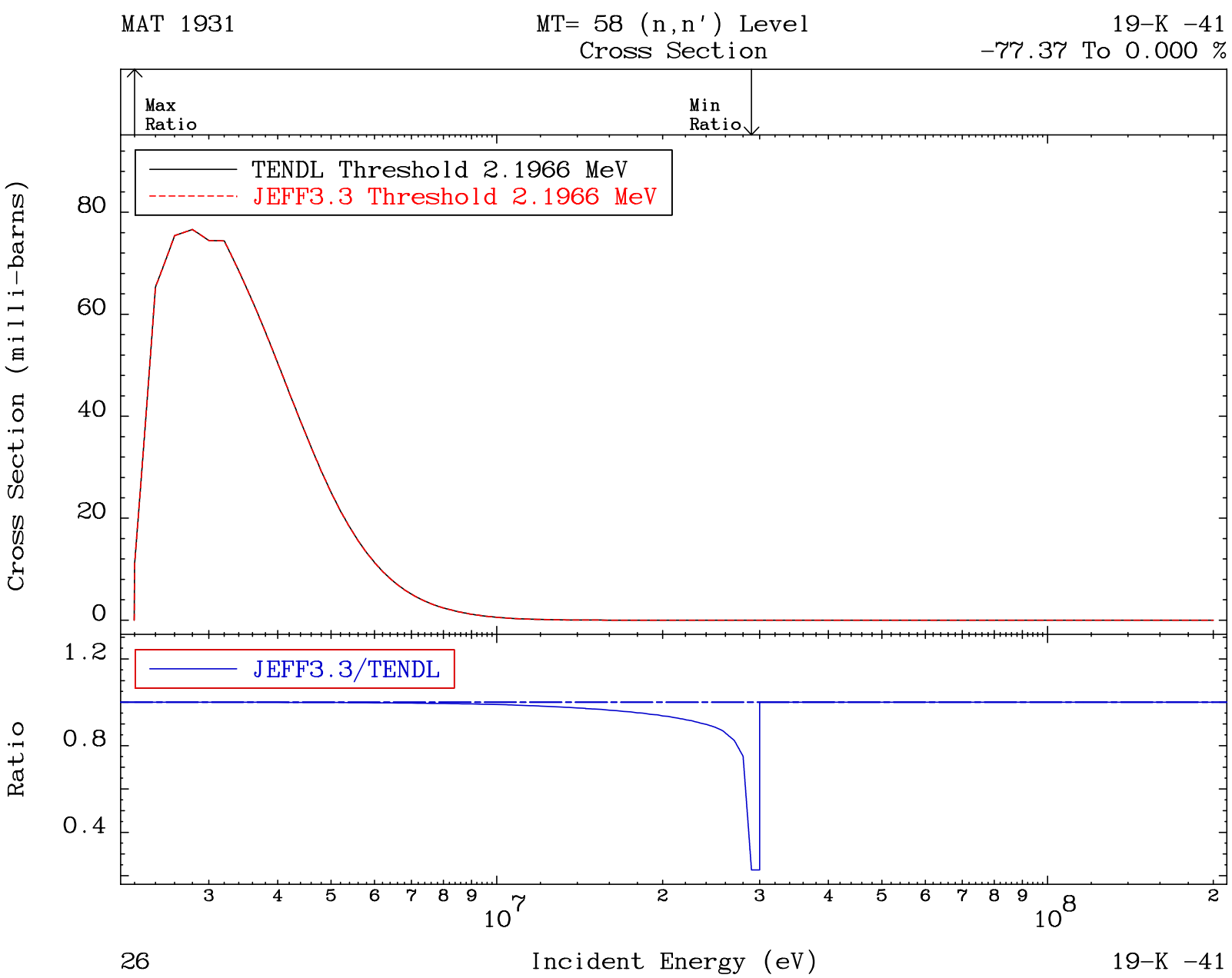

MAT 1931
MT= 53 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.5983 MeV
JEFF3.3 Threshold 1.5983 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
19-K -41

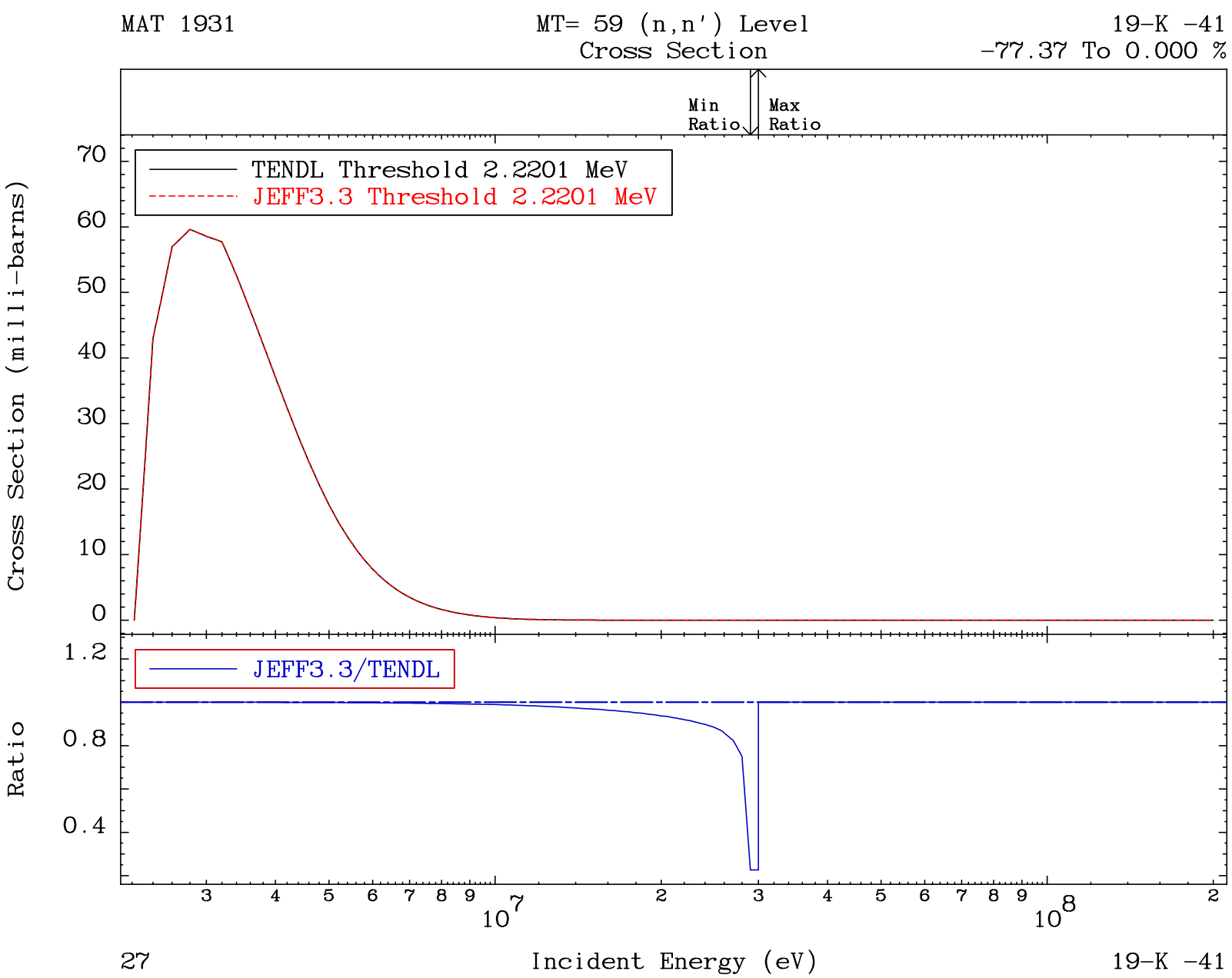

MAT 1931
MT= 54 (n,n') Level
Cross Section
19-K -41
-0.094 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 1.6210 MeV
JEFF3.3 Threshold 1.6210 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
19-K -41

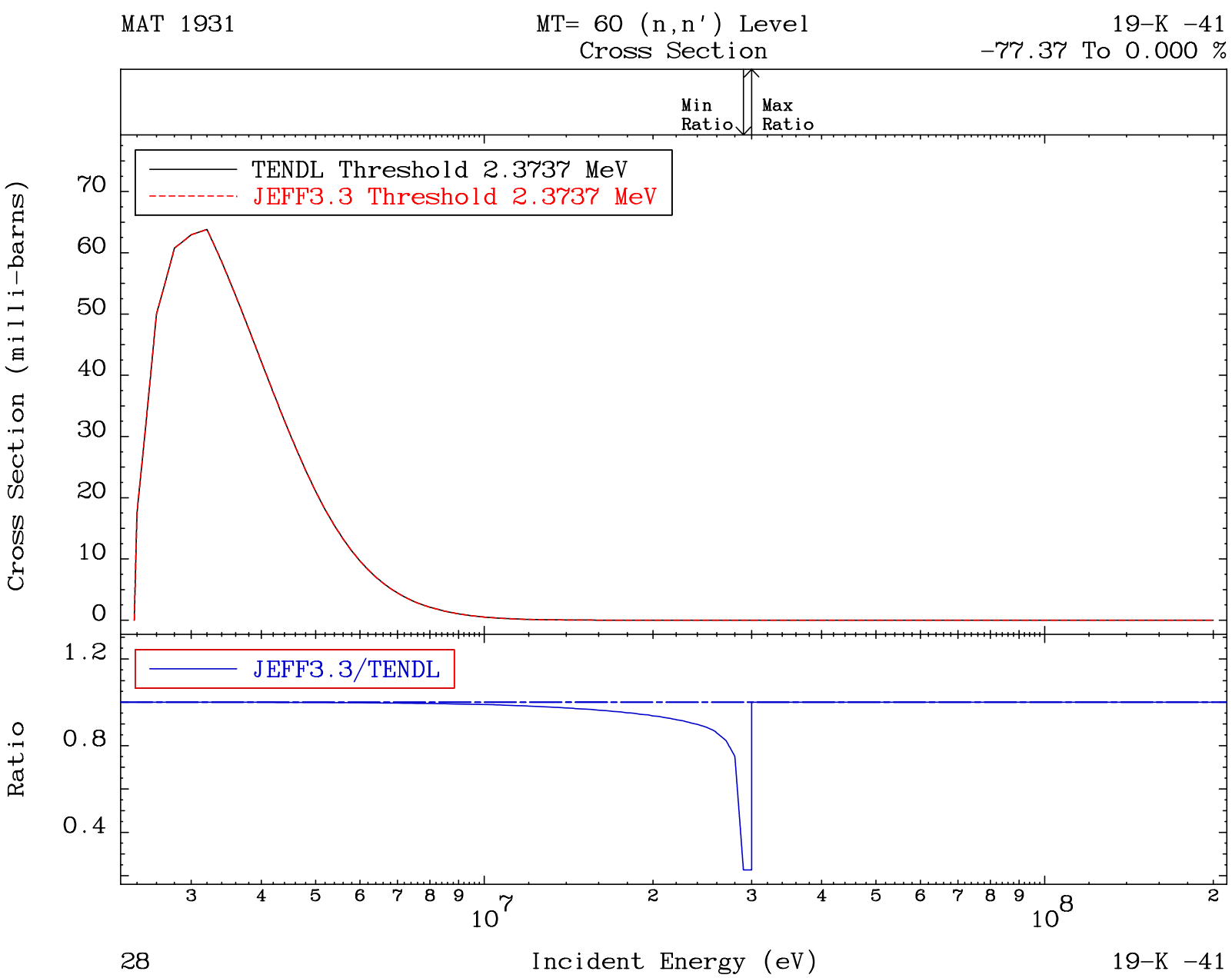

MAT 1931
MT= 55 (n,n') Level
Cross Section
19-K -41
-0.107 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.6323 MeV
JEFF3.3 Threshold 1.6323 MeV
Cross Section (milli-barns)
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
23
Incident Energy (eV)
19-K -41

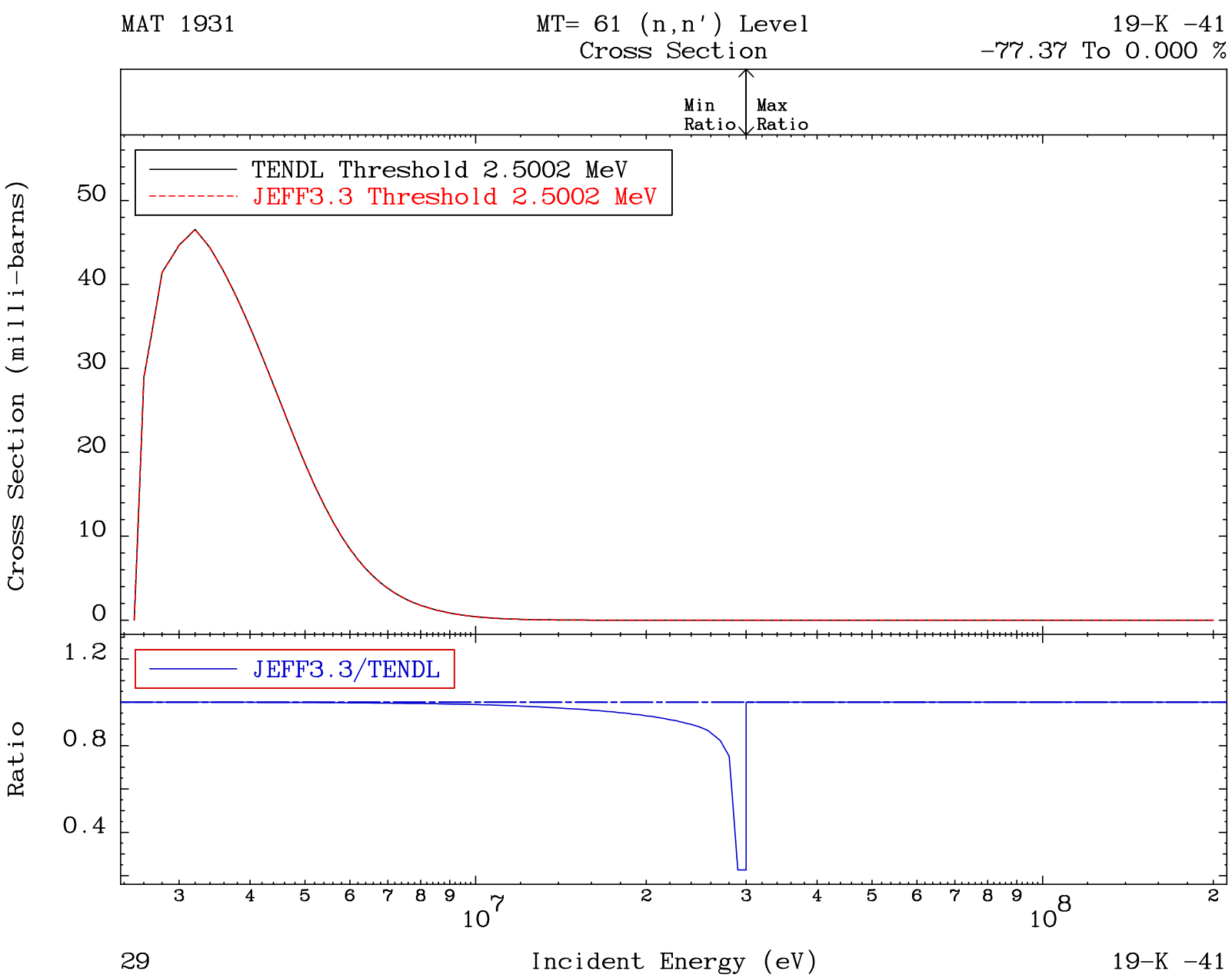

MAT 1931
MT= 56 (n,n') Level
Cross Section
19-K -41
-0.089 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.7185 MeV
JEFF3.3 Threshold 1.7185 MeV
Cross Section (milli-barns)
160
120
80
40
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
24
Incident Energy (eV)
19-K -41

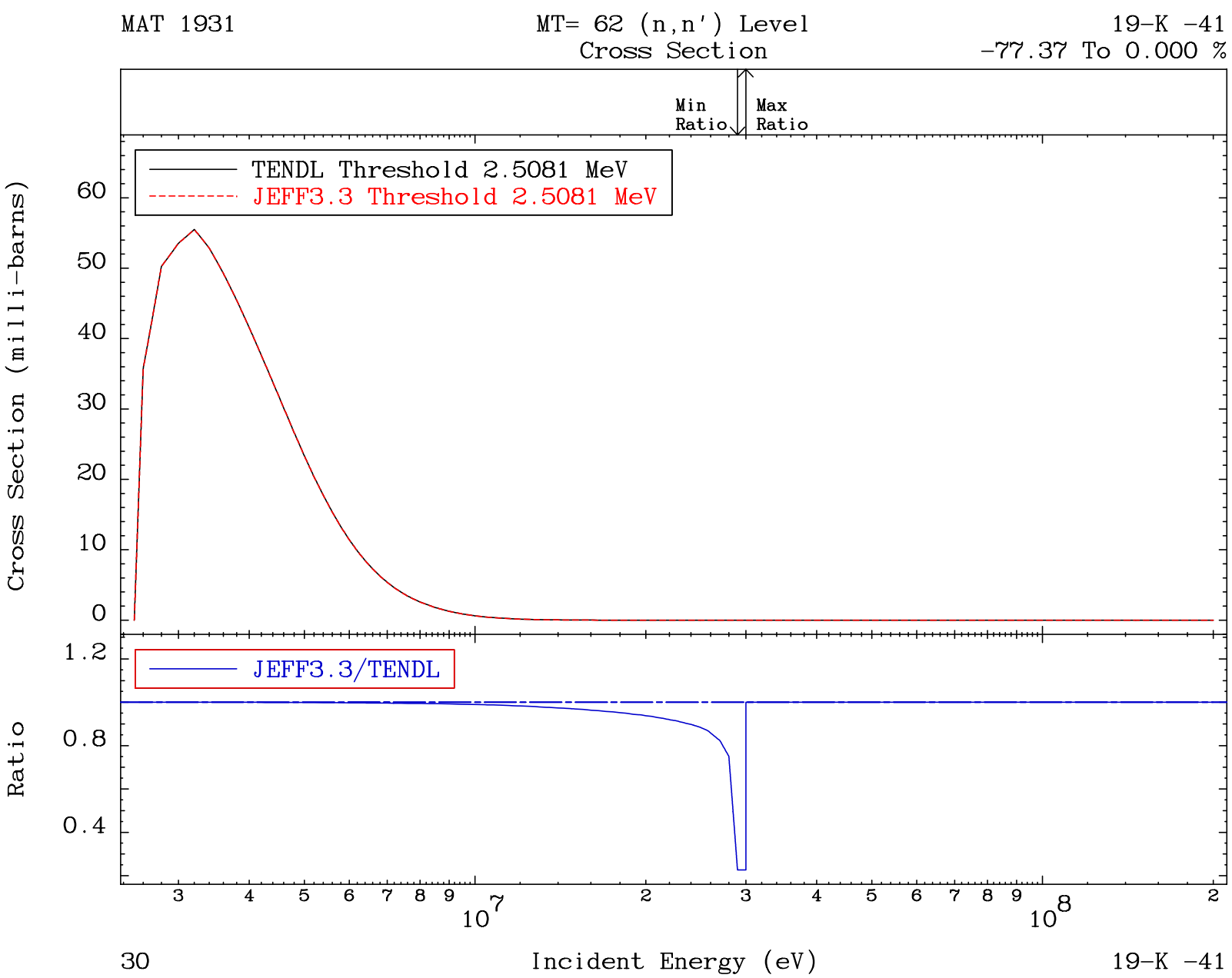

MAT 1931
MT= 57 (n,n') Level
Cross Section
19-K -41
-0.098 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.7398 MeV
JEFF3.3 Threshold 1.7398 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
25
Incident Energy (eV)
19-K -41

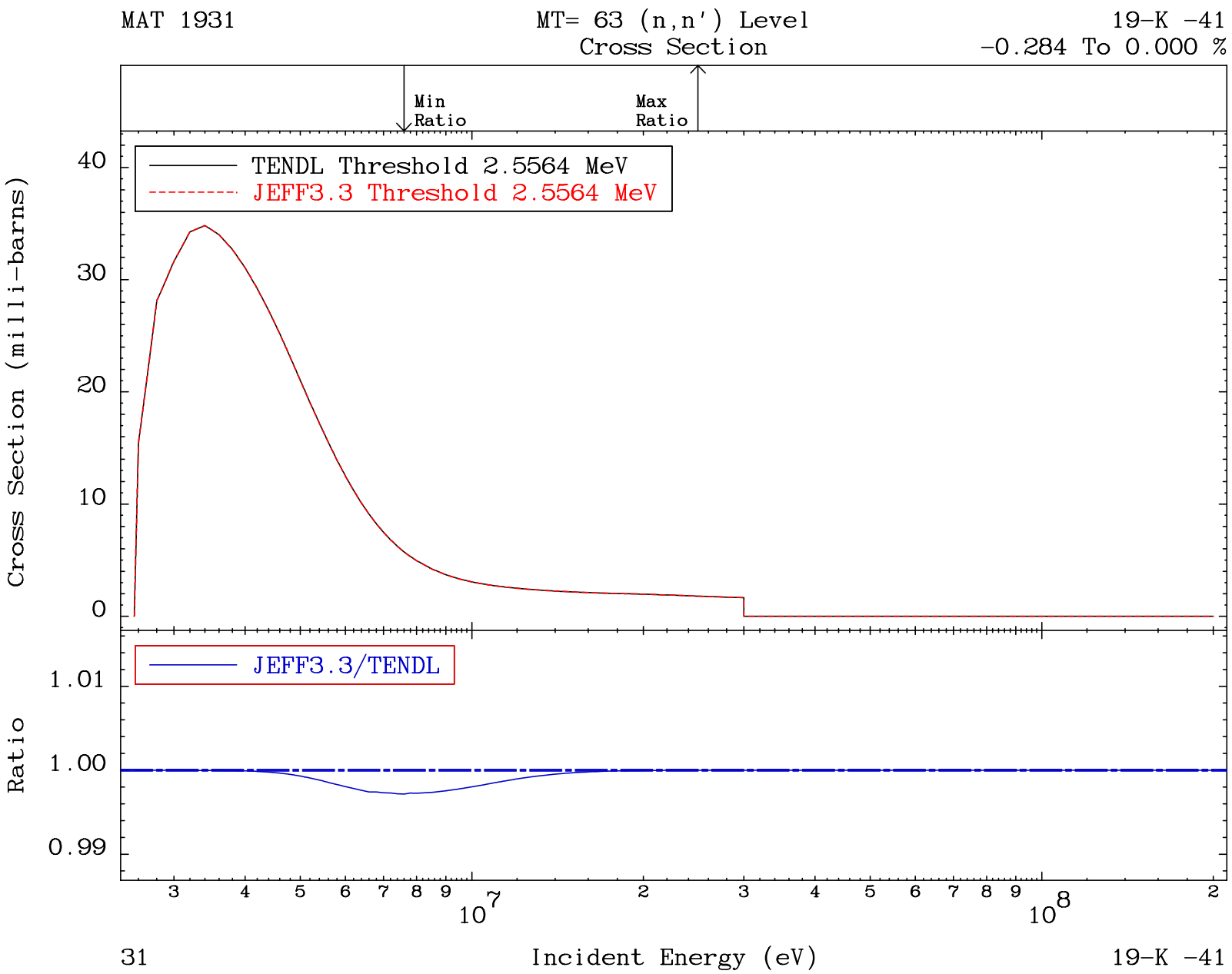

MAT 1931
MT= 58 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.1966 MeV
JEFF3.3 Threshold 2.1966 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
26
Incident Energy (eV)
19-K -41

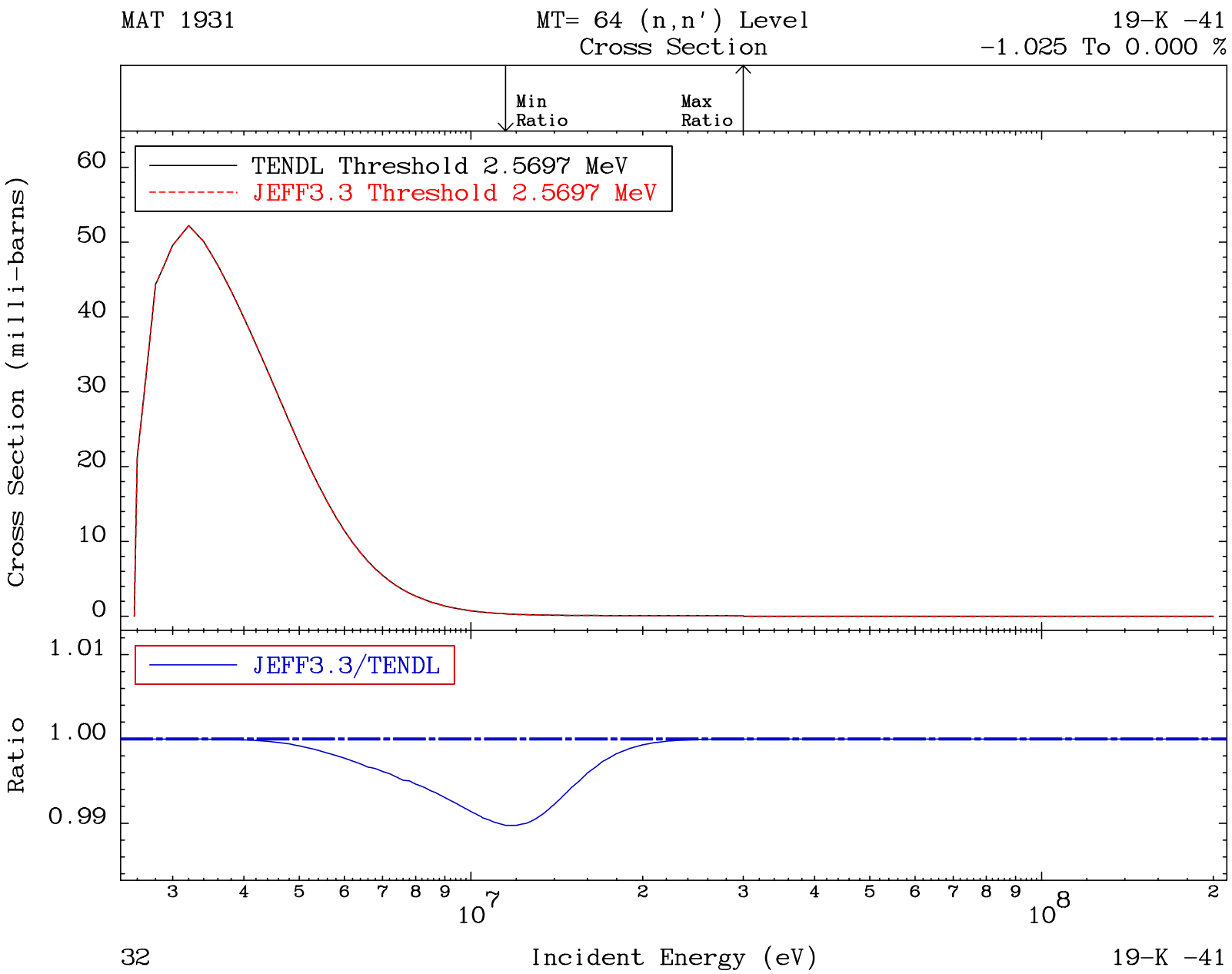

MAT 1931
MT= 59 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.2201 MeV
JEFF3.3 Threshold 2.2201 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
19-K -41

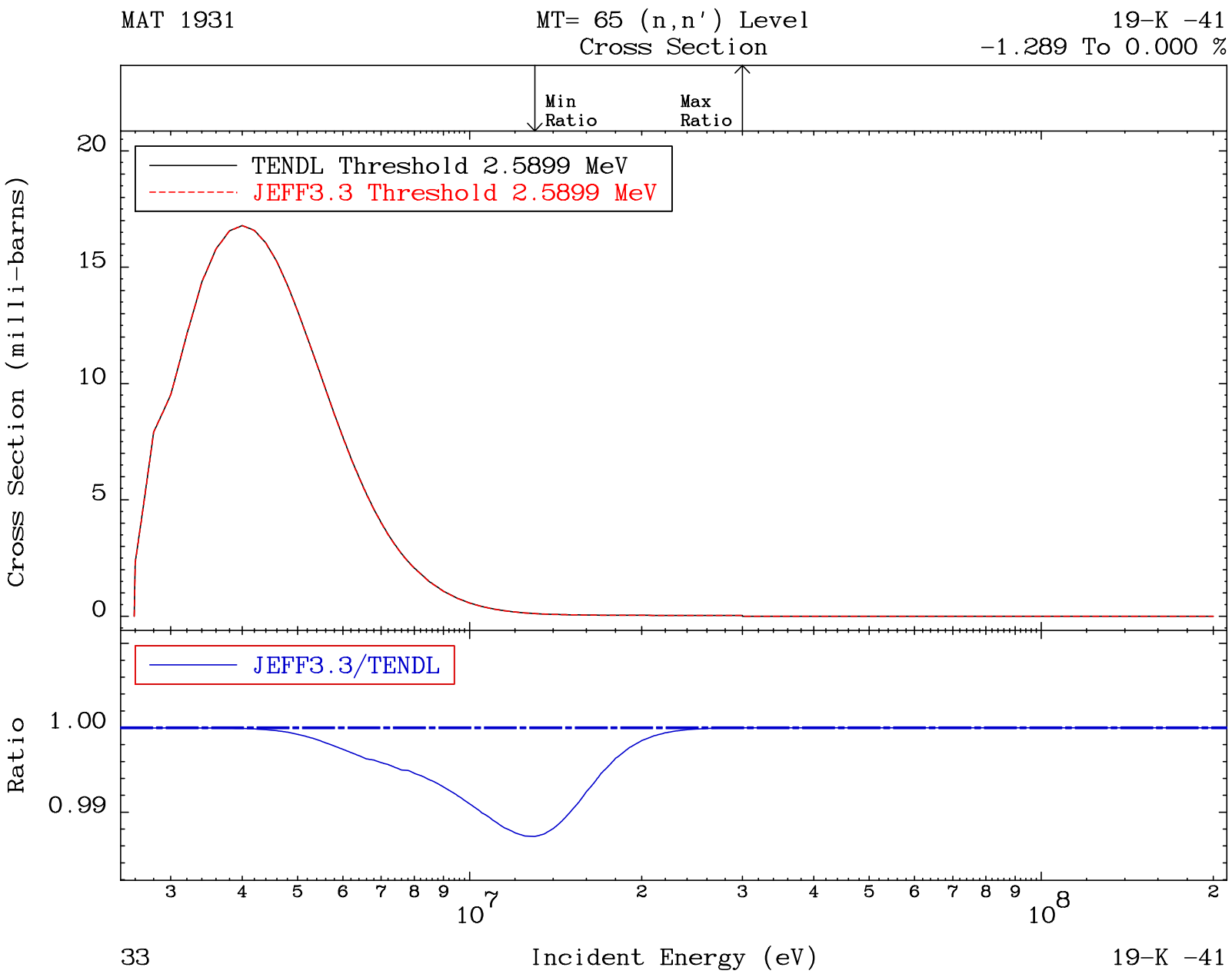

MAT 1931
MT= 60 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.3737 MeV
JEFF3.3 Threshold 2.3737 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
19-K -41

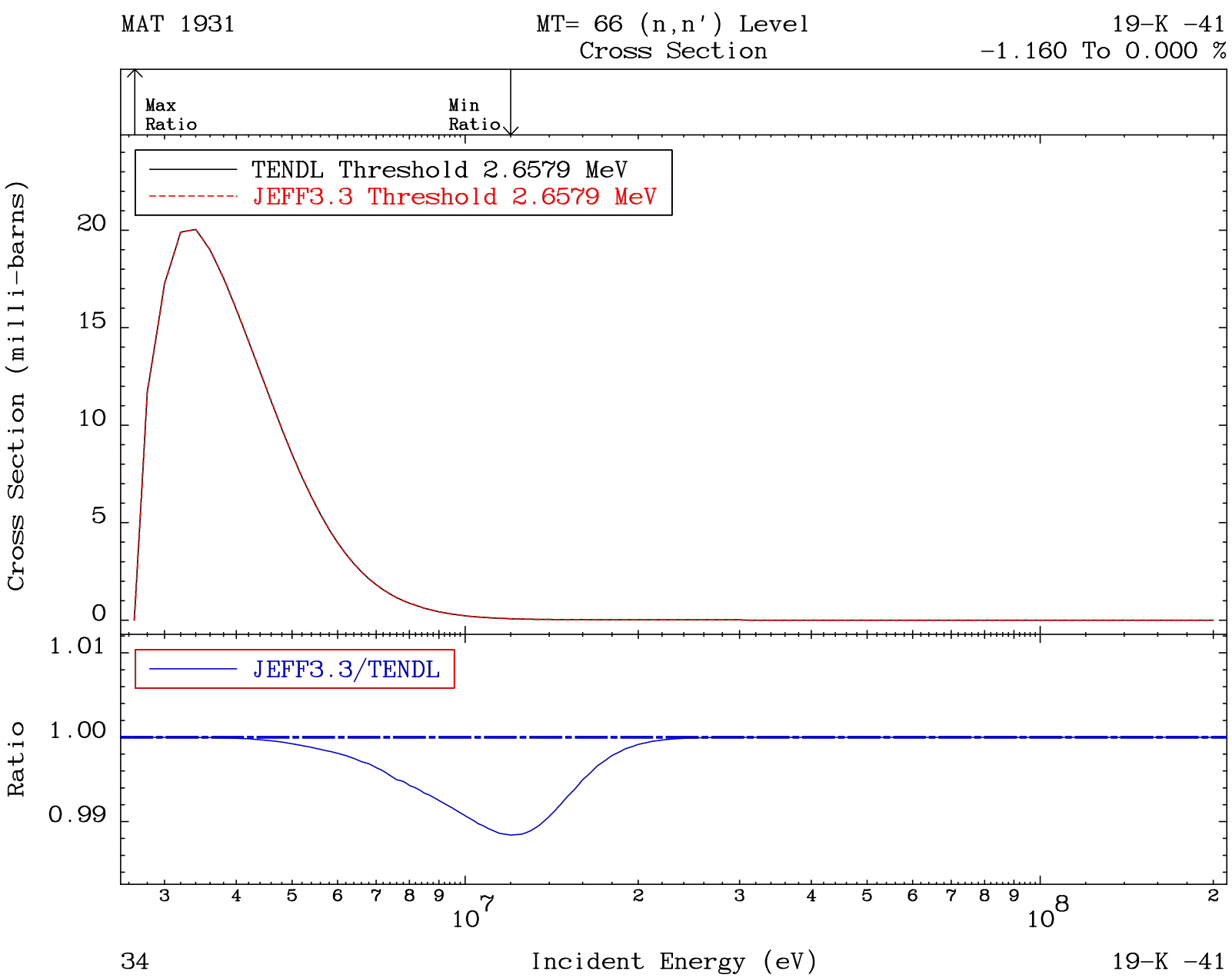

MAT 1931
MT= 61 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.5002 MeV
JEFF3.3 Threshold 2.5002 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
19-K -41

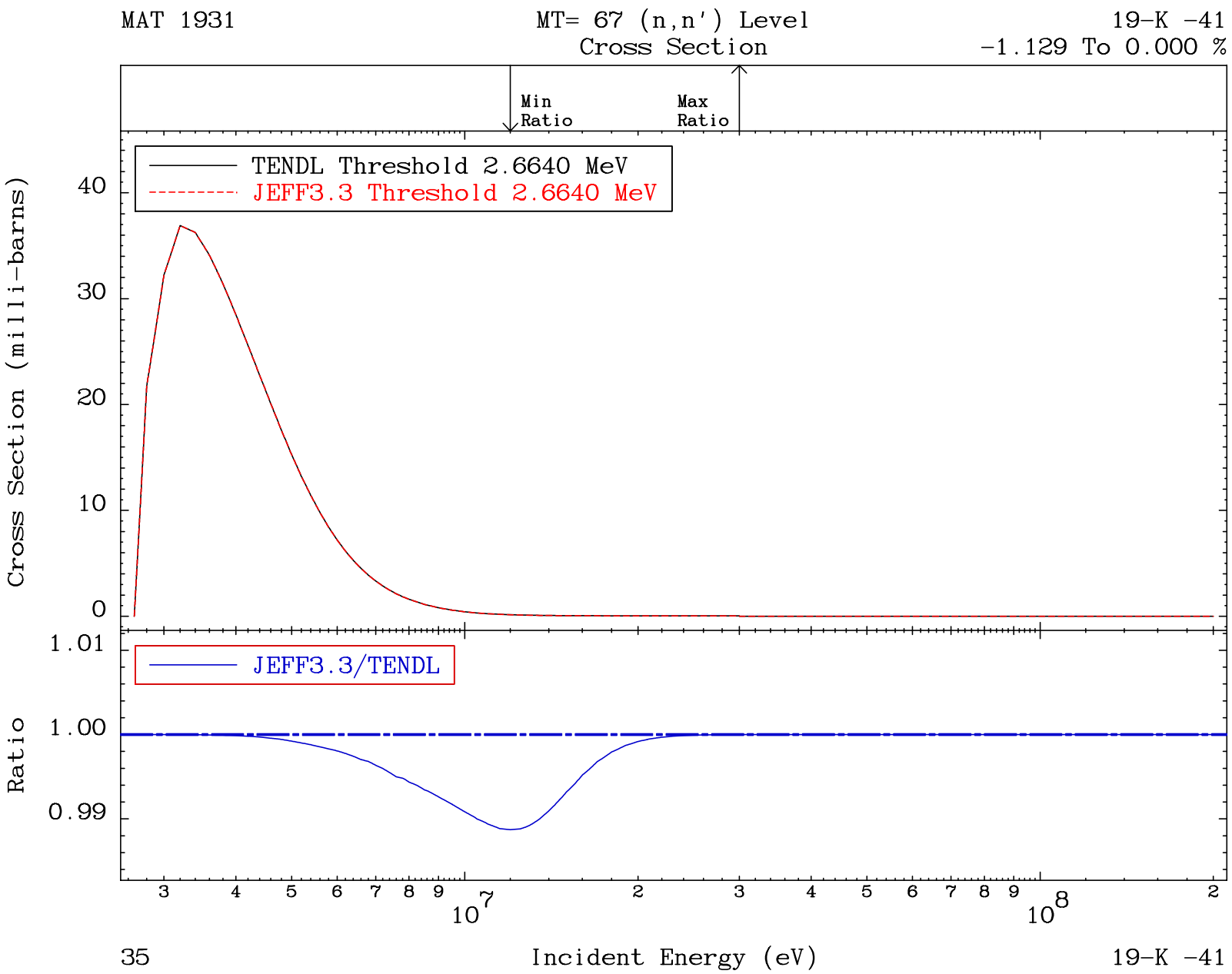

MAT 1931
MT= 62 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.5081 MeV
JEFF3.3 Threshold 2.5081 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
19-K -41

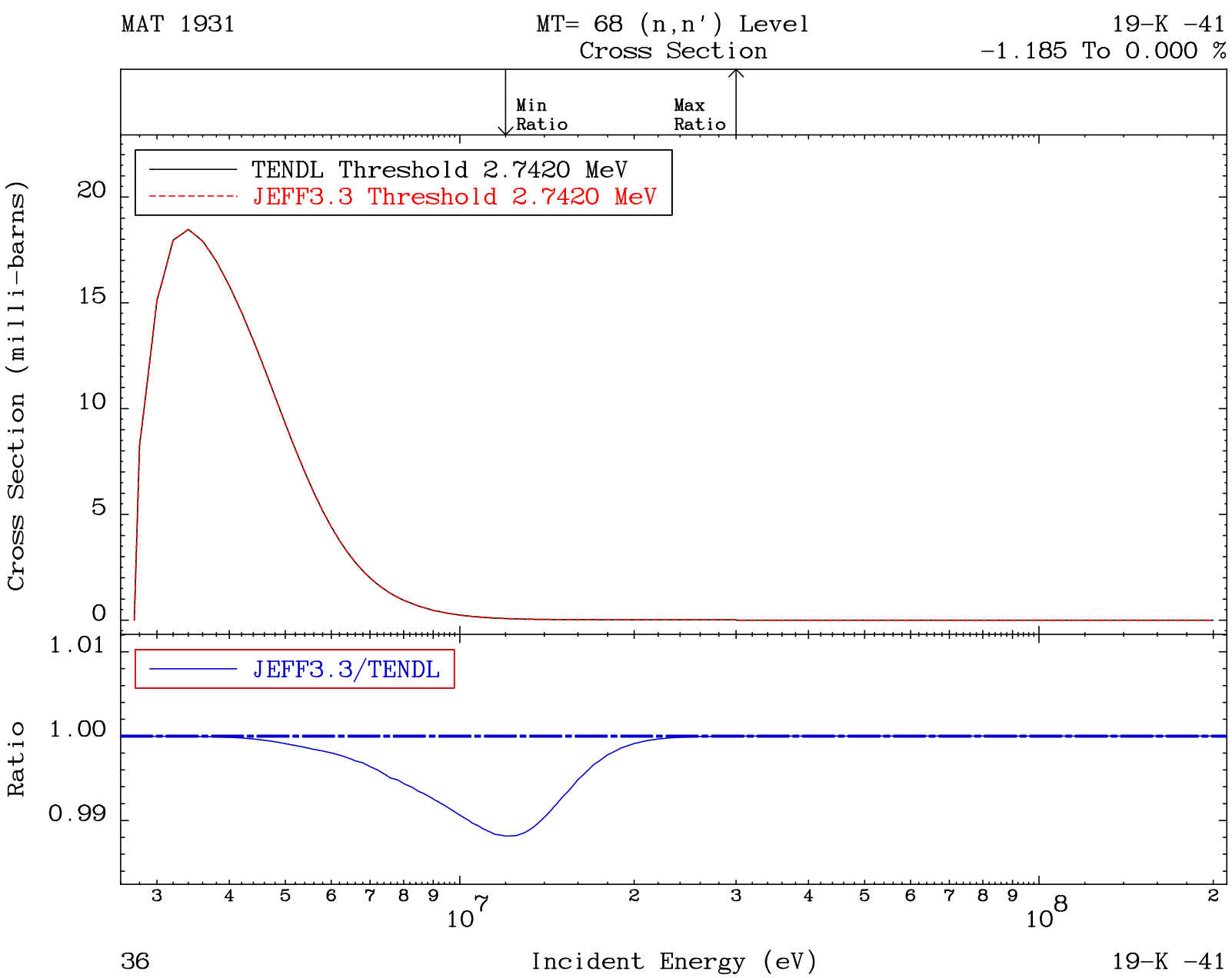

MAT 1931
MT= 63 (n,n') Level
Cross Section
19-K -41
-0.284 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5564 MeV
JEFF3.3 Threshold 2.5564 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
19-K -41

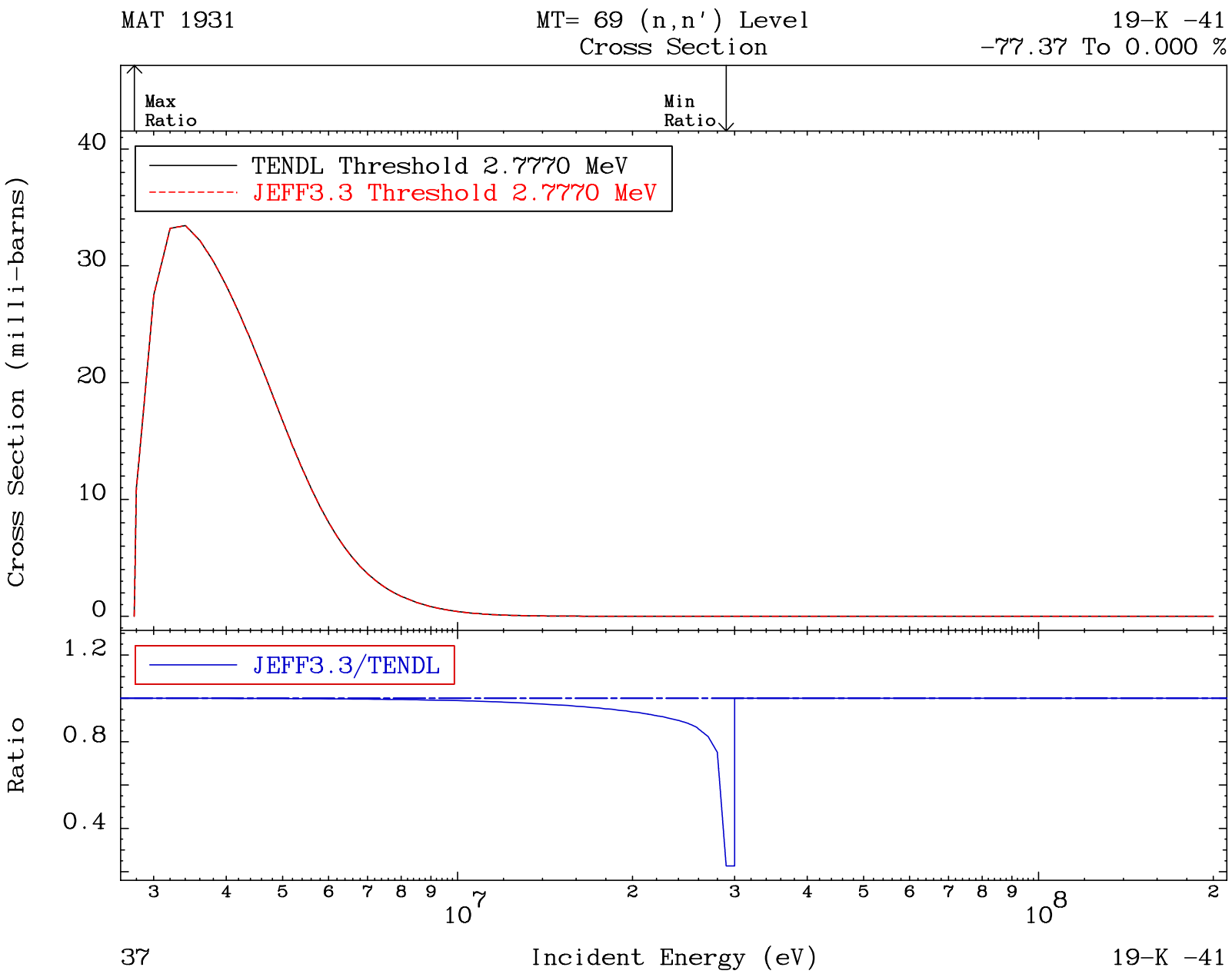

MAT 1931
MT= 64 (n,n') Level
Cross Section
19-K -41
-1.025 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5697 MeV
JEFF3.3 Threshold 2.5697 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
32
Incident Energy (eV)
19-K -41

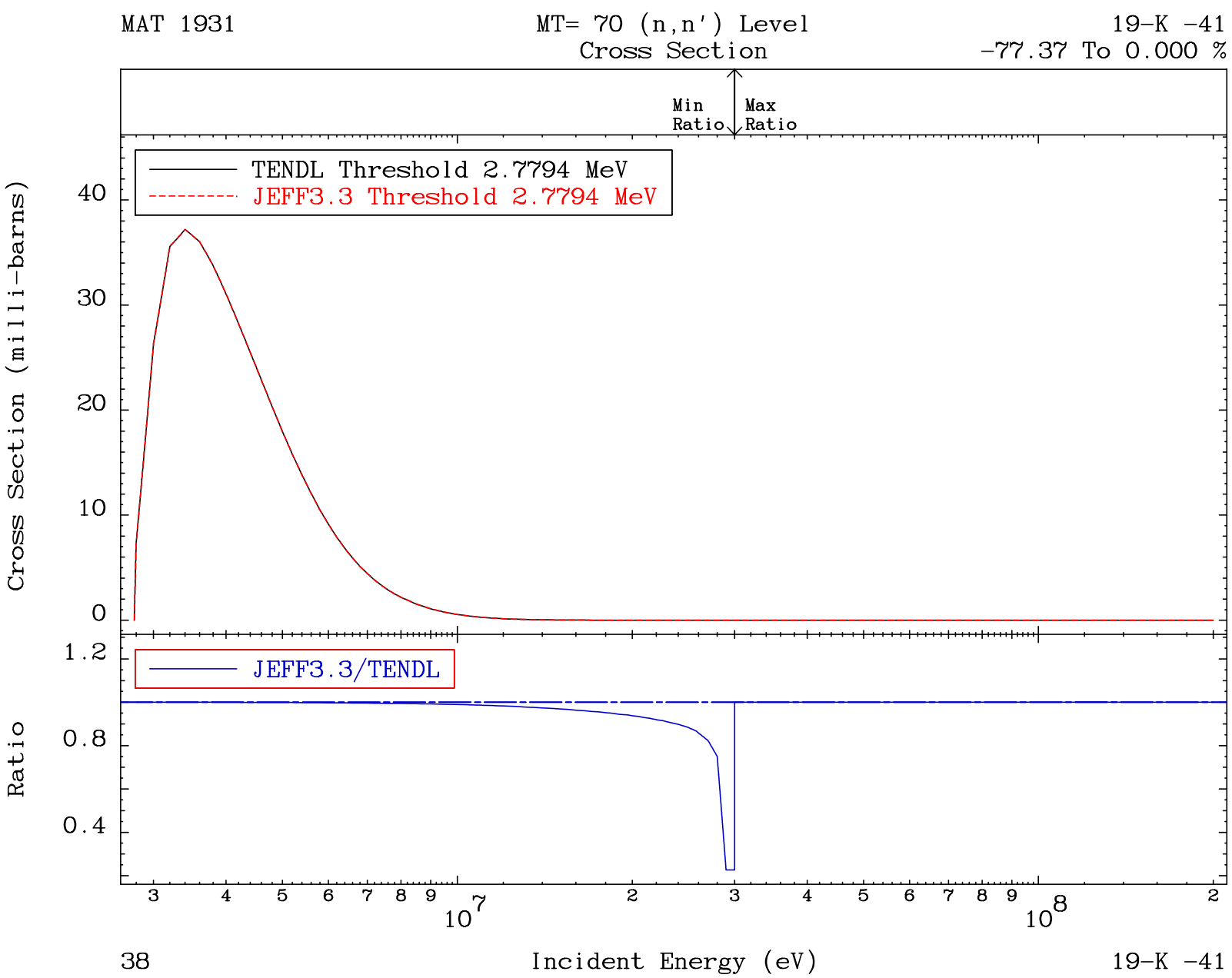

MAT 1931
MT= 65 (n,n') Level
Cross Section
19-K -41
-1.289 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5899 MeV
JEFF3.3 Threshold 2.5899 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
33
Incident Energy (eV)
19-K -41

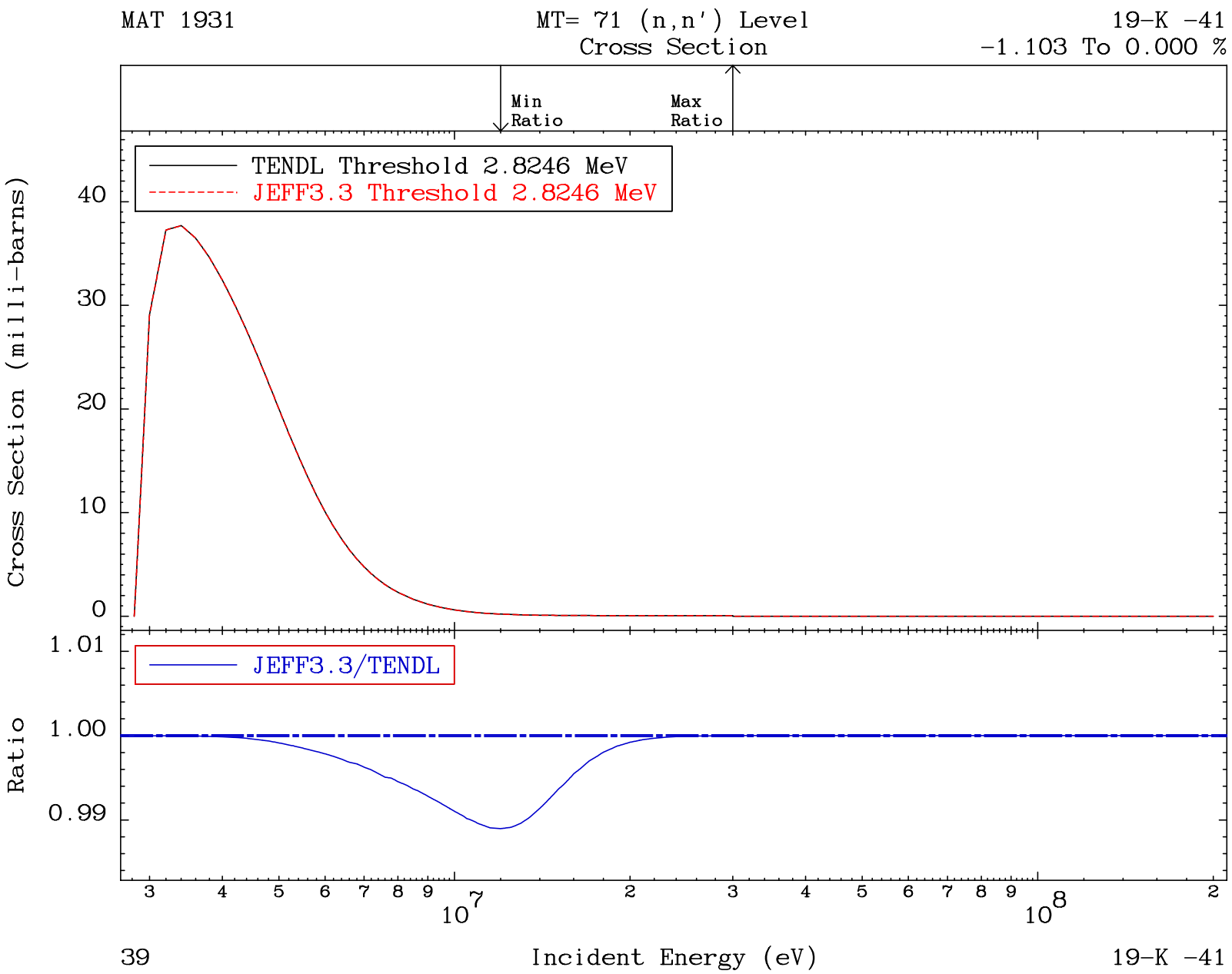

MAT 1931
MT= 66 (n,n') Level
Cross Section
19-K -41
-1.160 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 2.6579 MeV
JEFF3.3 Threshold 2.6579 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
19-K -41

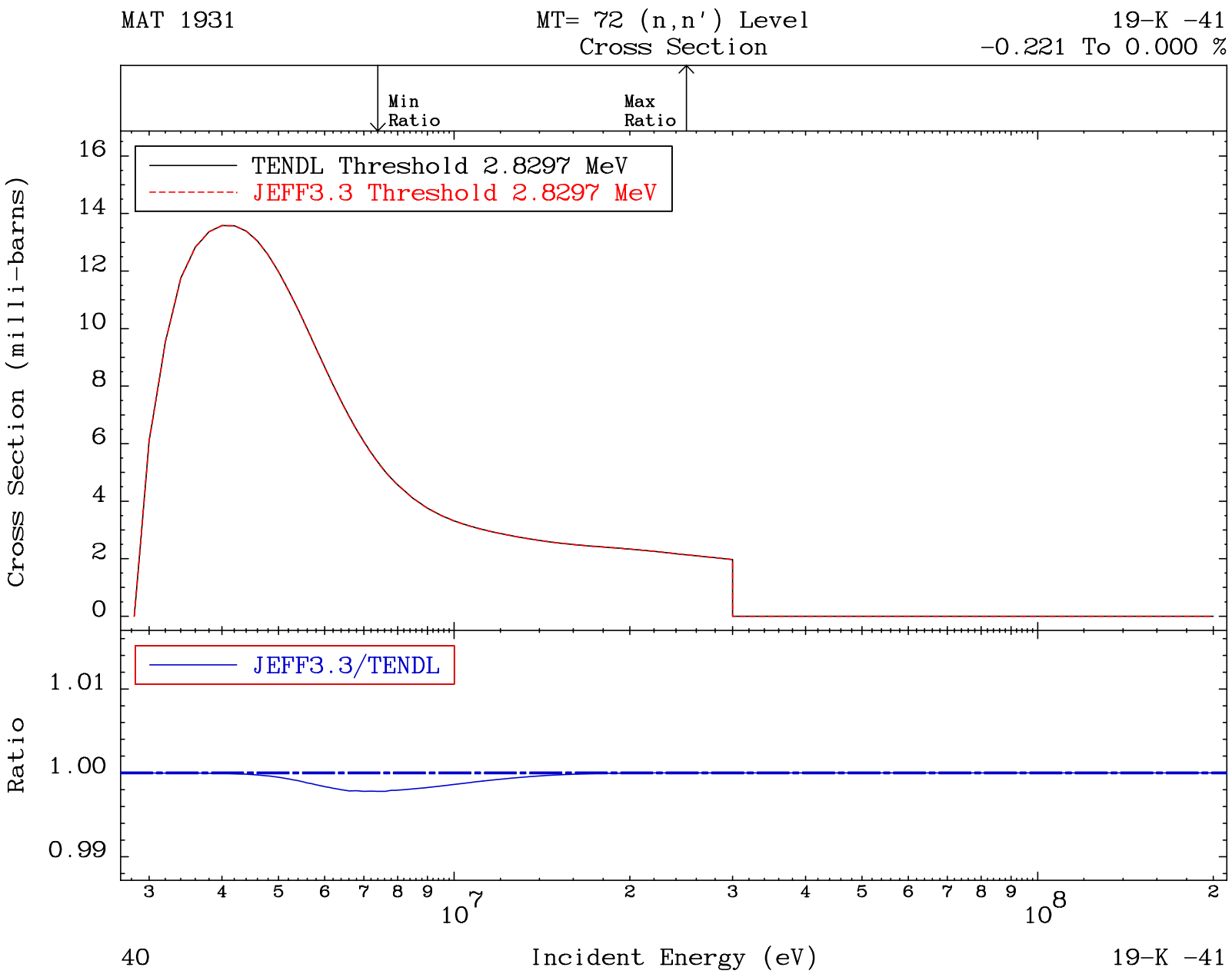

MAT 1931
MT= 67 (n,n') Level
Cross Section
19-K -41
-1.129 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.6640 MeV
JEFF3.3 Threshold 2.6640 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
19-K -41

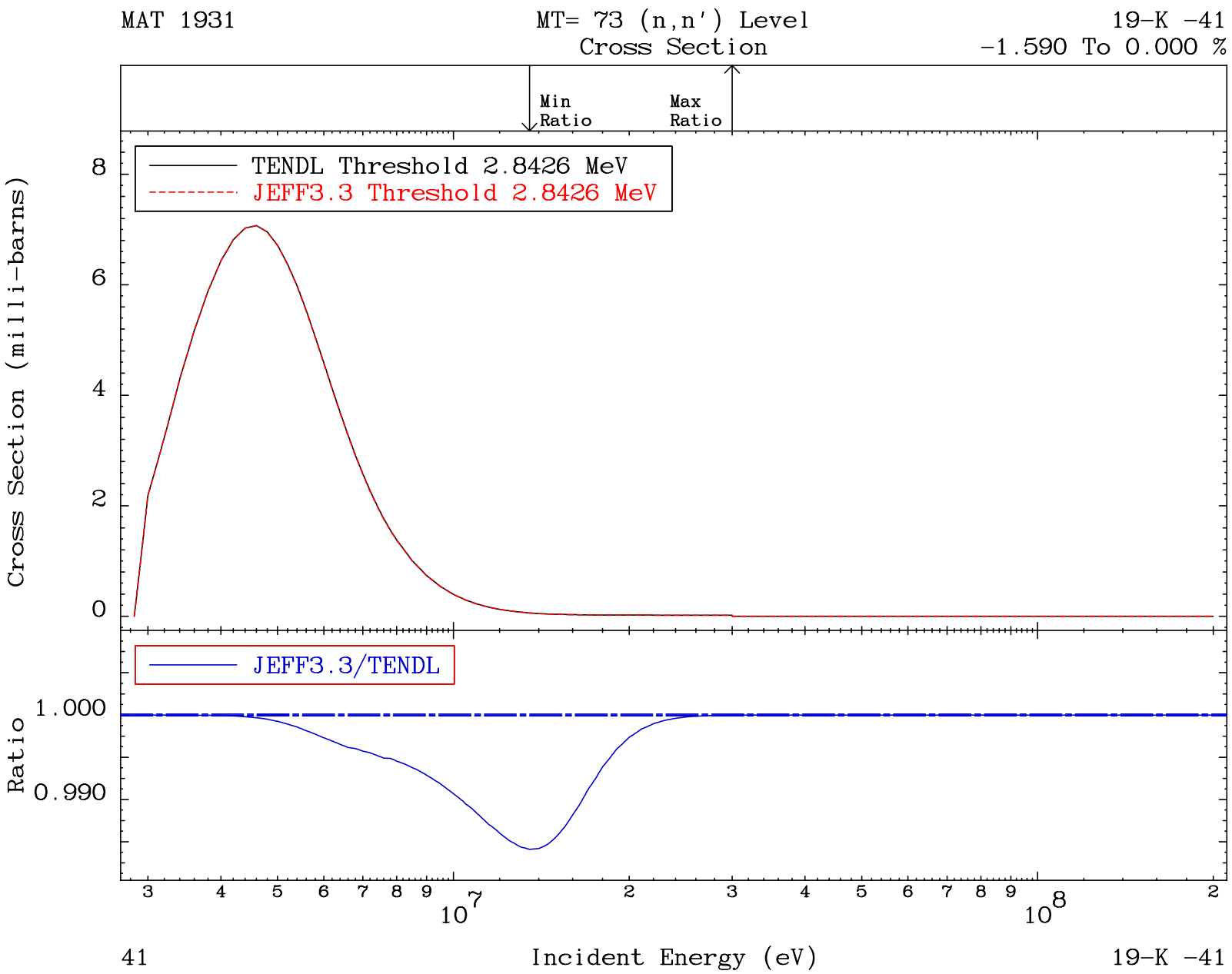

MAT 1931
MT= 68 (n,n') Level
Cross Section
19-K -41
-1.185 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.7420 MeV
JEFF3.3 Threshold 2.7420 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
36
Incident Energy (eV)
19-K -41

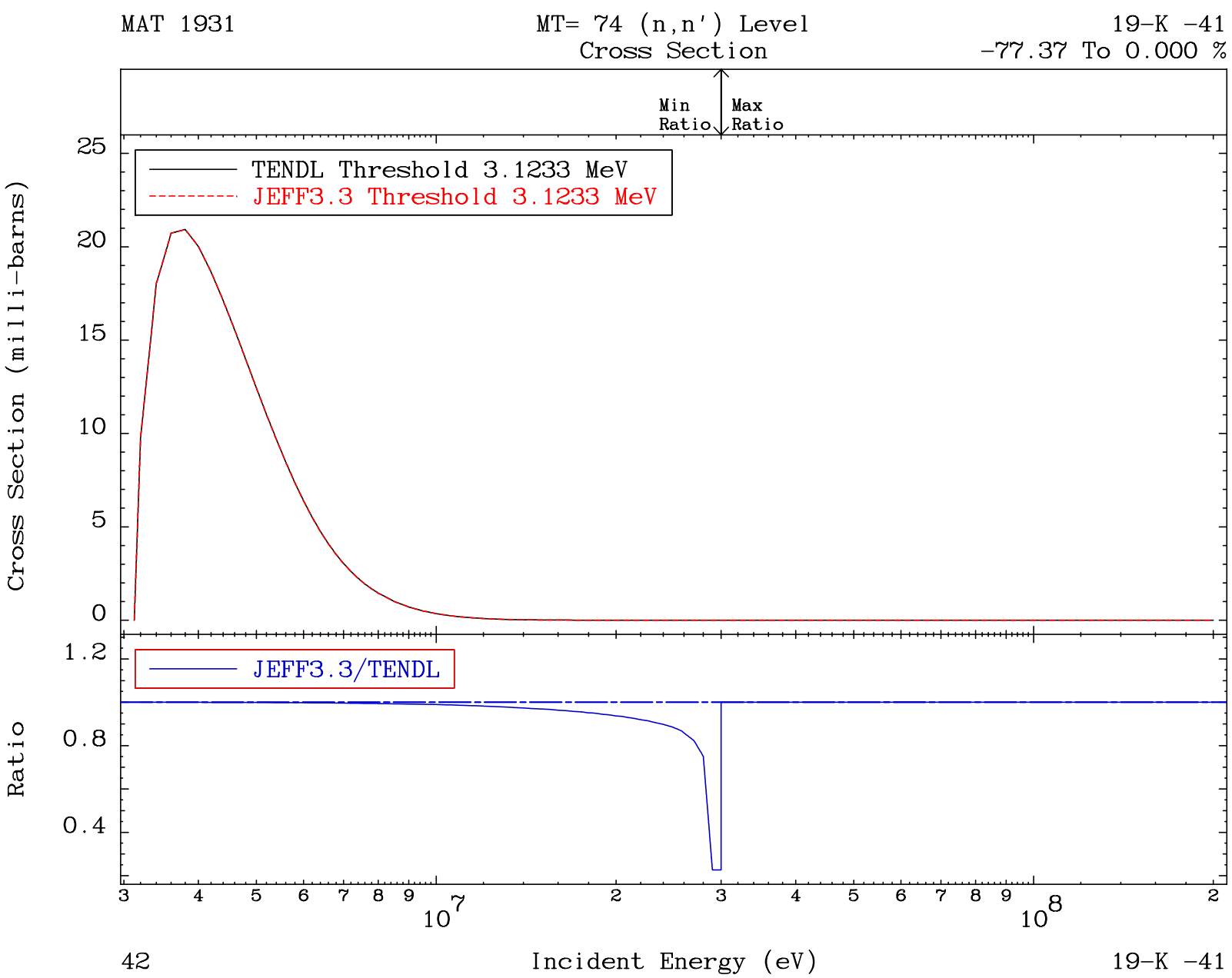

MAT 1931
MT= 69 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.7770 MeV
JEFF3.3 Threshold 2.7770 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
37
Incident Energy (eV)
19-K -41

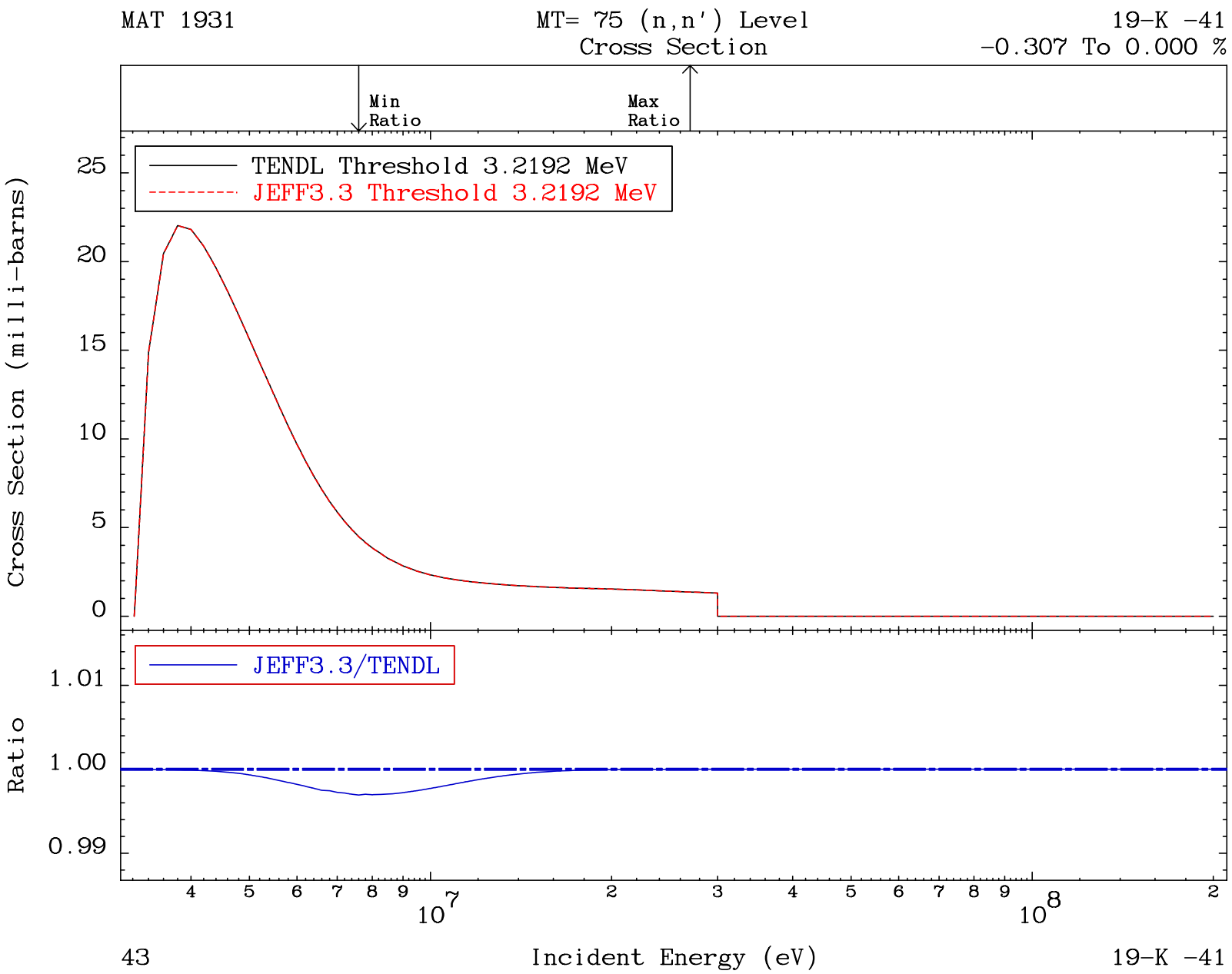

MAT 1931
MT= 70 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.7794 MeV
JEFF3.3 Threshold 2.7794 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
19-K -41

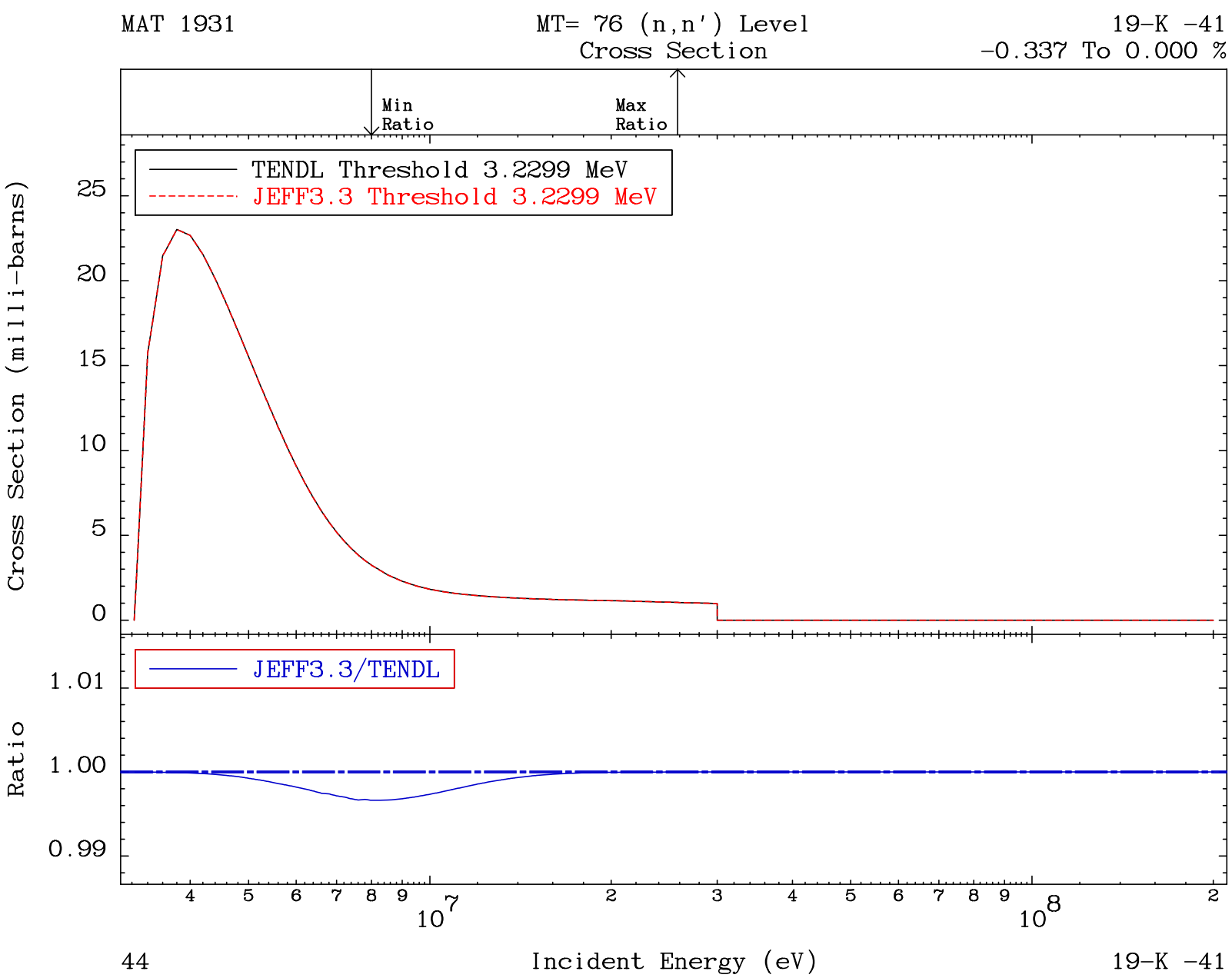

MAT 1931
MT= 71 (n,n') Level
Cross Section
19-K -41
-1.103 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8246 MeV
JEFF3.3 Threshold 2.8246 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
39
Incident Energy (eV)
19-K -41

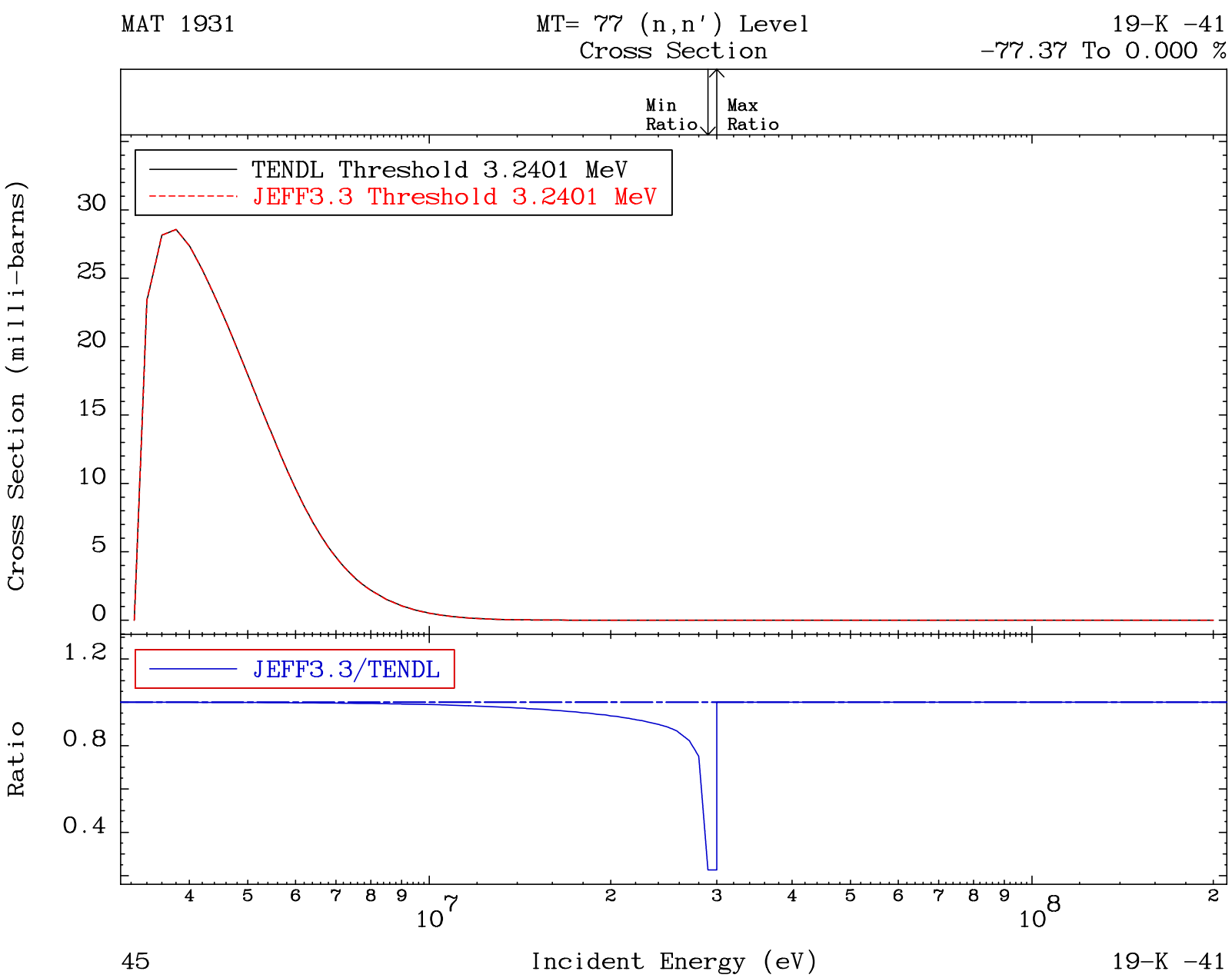

MAT 1931
MT= 72 (n,n') Level
Cross Section
19-K -41
-0.221 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8297 MeV
JEFF3.3 Threshold 2.8297 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
40
Incident Energy (eV)
19-K -41

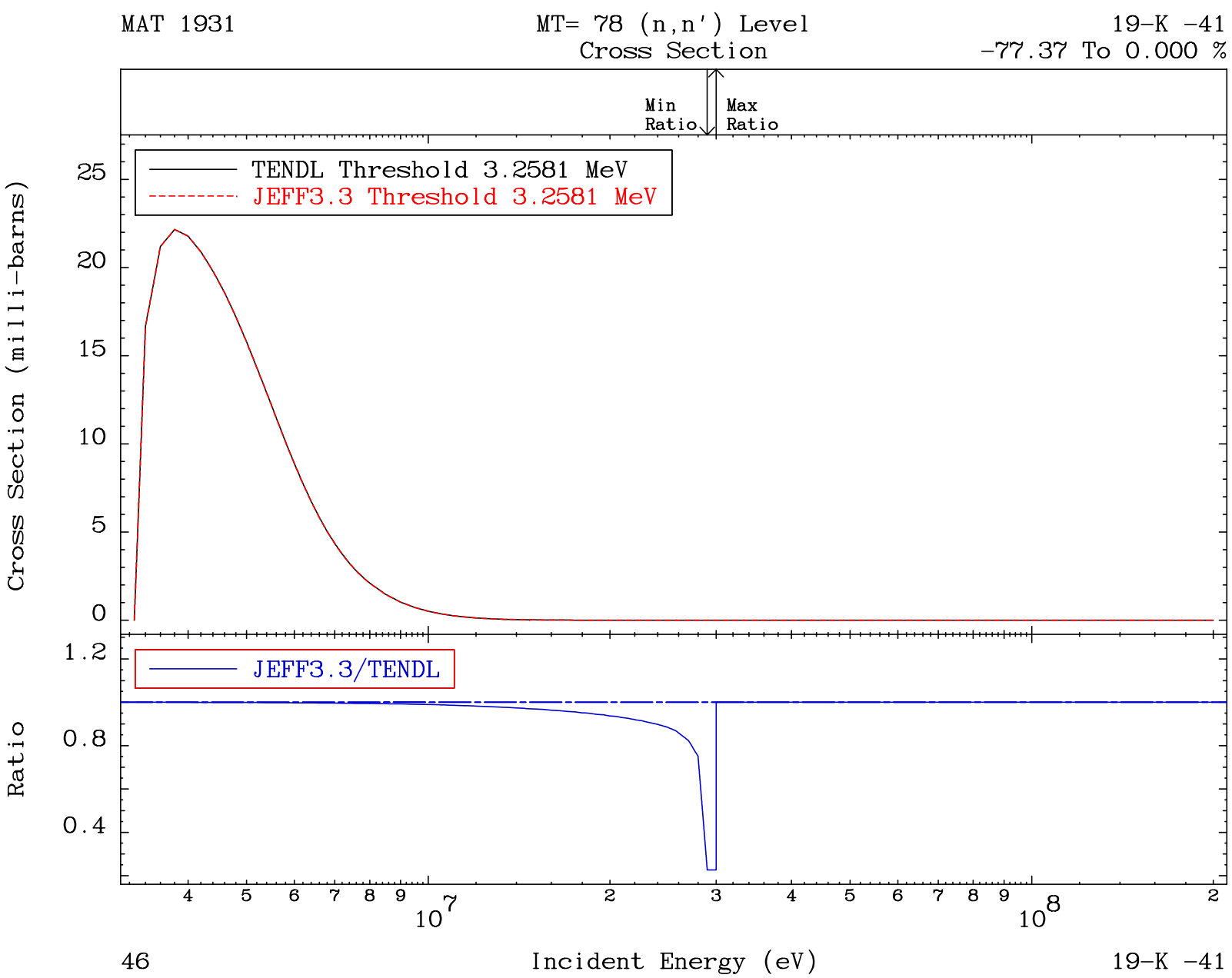

MAT 1931
MT= 73 (n,n') Level
Cross Section
19-K -41
-1.590 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8426 MeV
JEFF3.3 Threshold 2.8426 MeV
Cross Section (milli-barns)
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.000
0.990
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
19-K -41

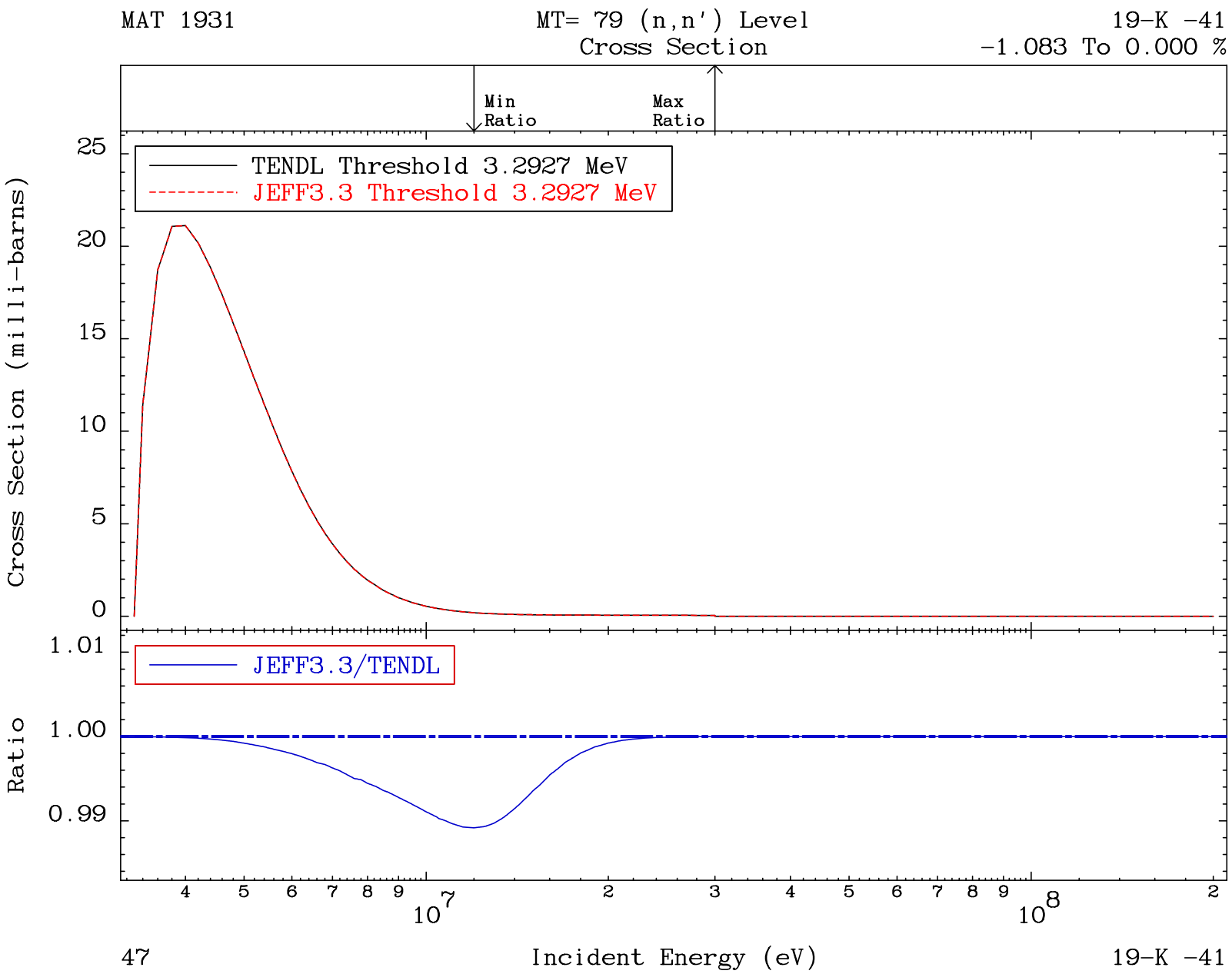

MAT 1931
MT= 74 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.1233 MeV
JEFF3.3 Threshold 3.1233 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
19-K -41

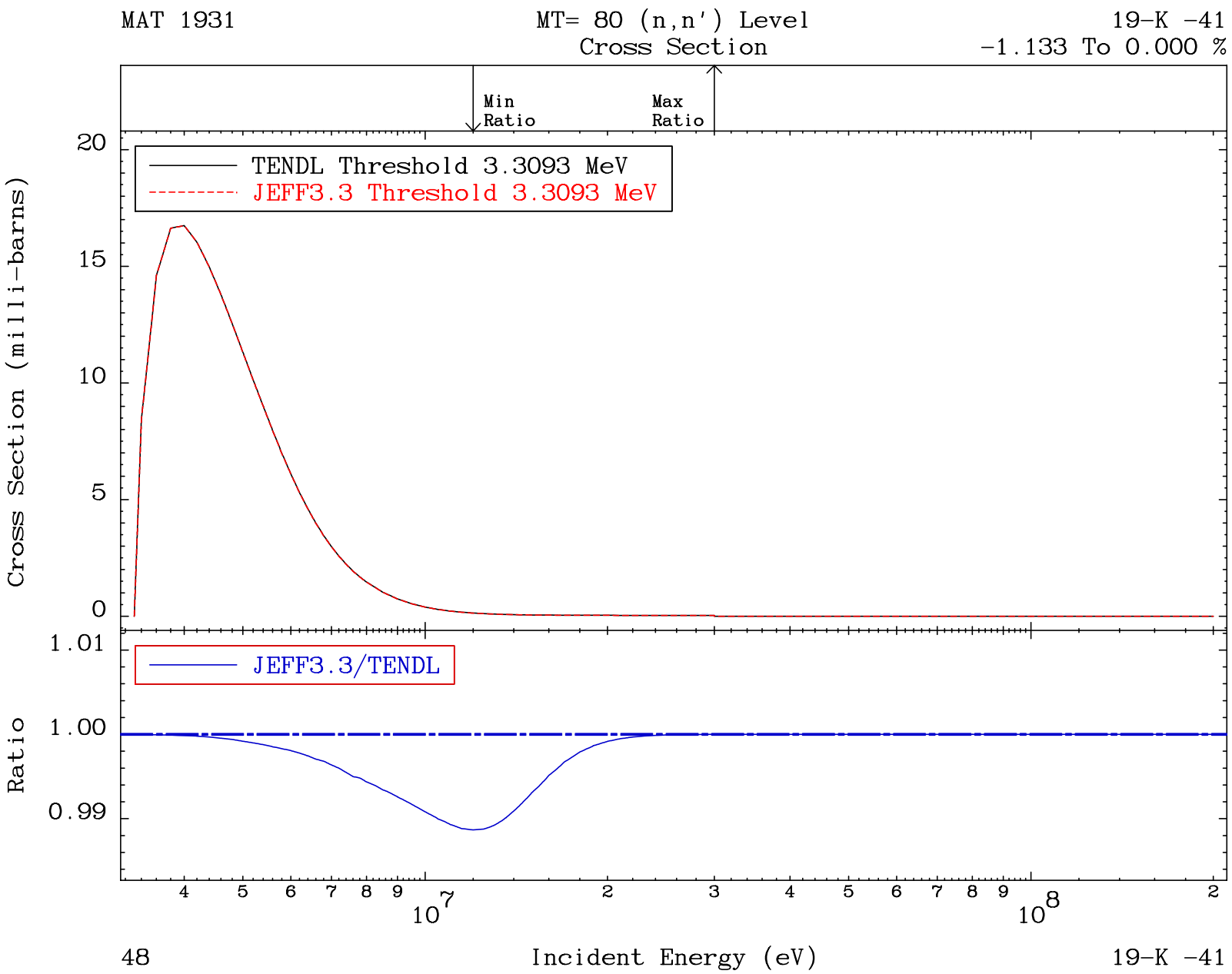

MAT 1931
MT= 75 (n,n') Level
Cross Section
19-K -41
-0.307 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.2192 MeV
JEFF3.3 Threshold 3.2192 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
19-K -41

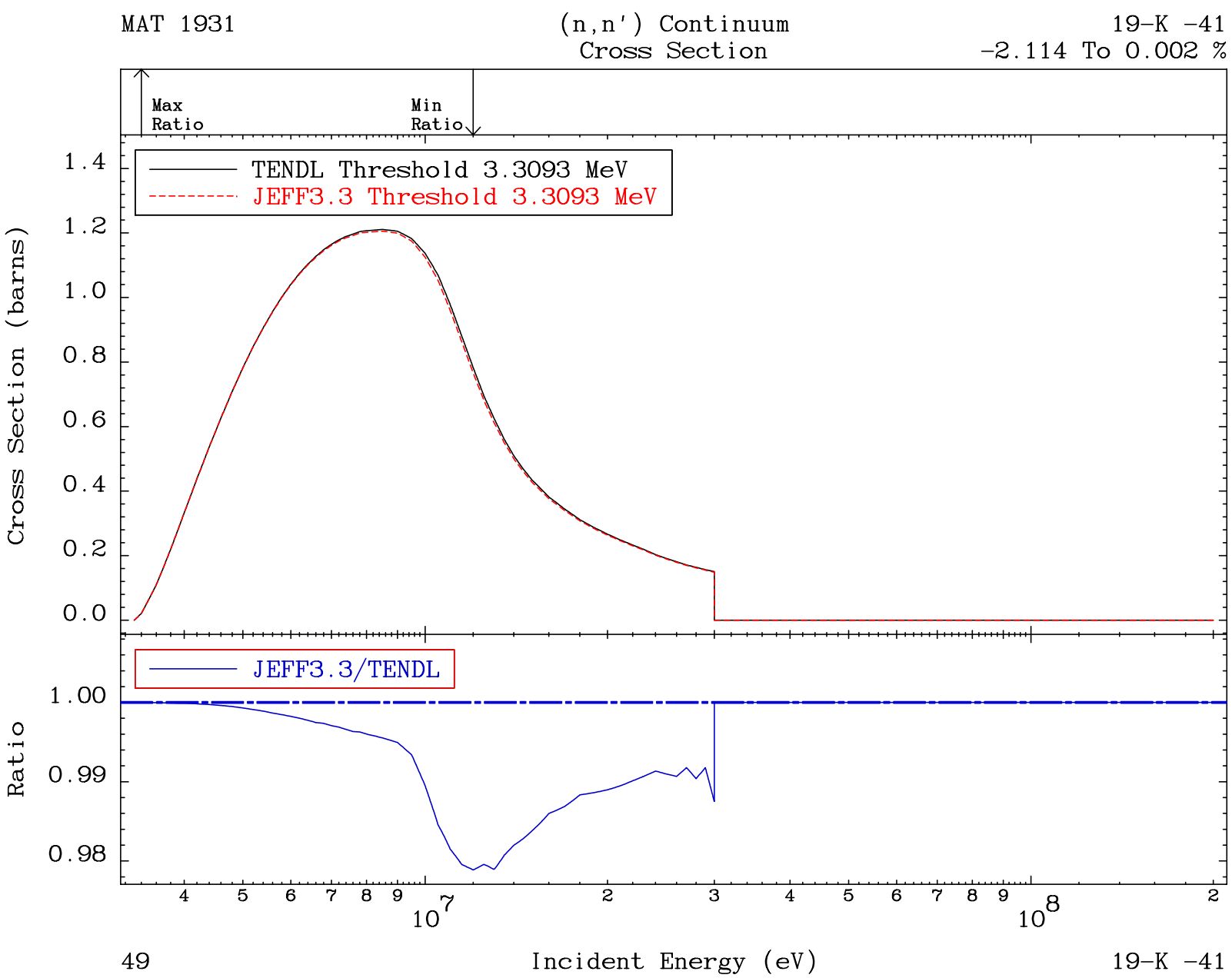

MAT 1931
MT= 76 (n,n') Level
Cross Section
19-K -41
-0.337 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.2299 MeV
JEFF3.3 Threshold 3.2299 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
19-K -41

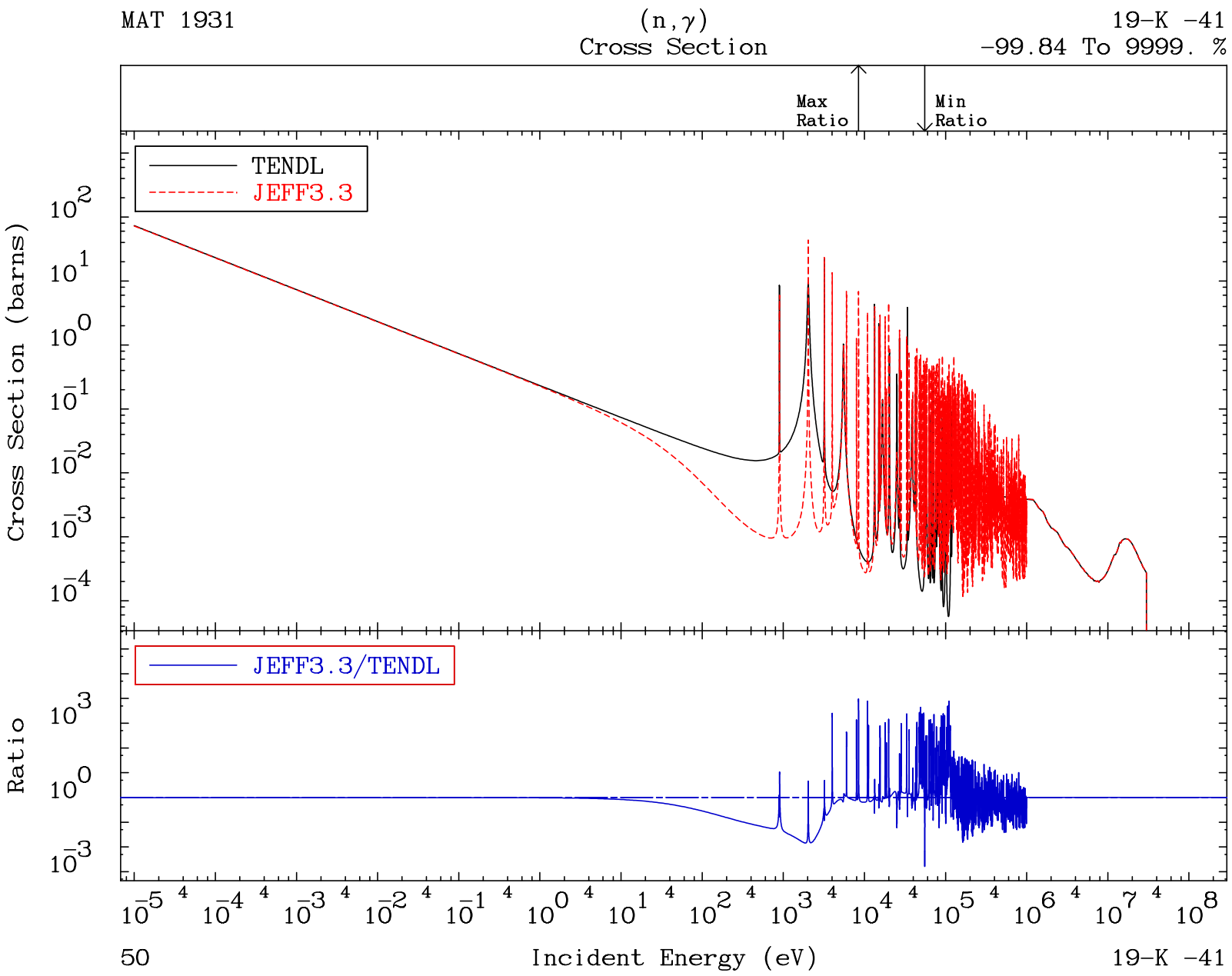

MAT 1931
MT= 77 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.2401 MeV
JEFF3.3 Threshold 3.2401 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
19-K -41

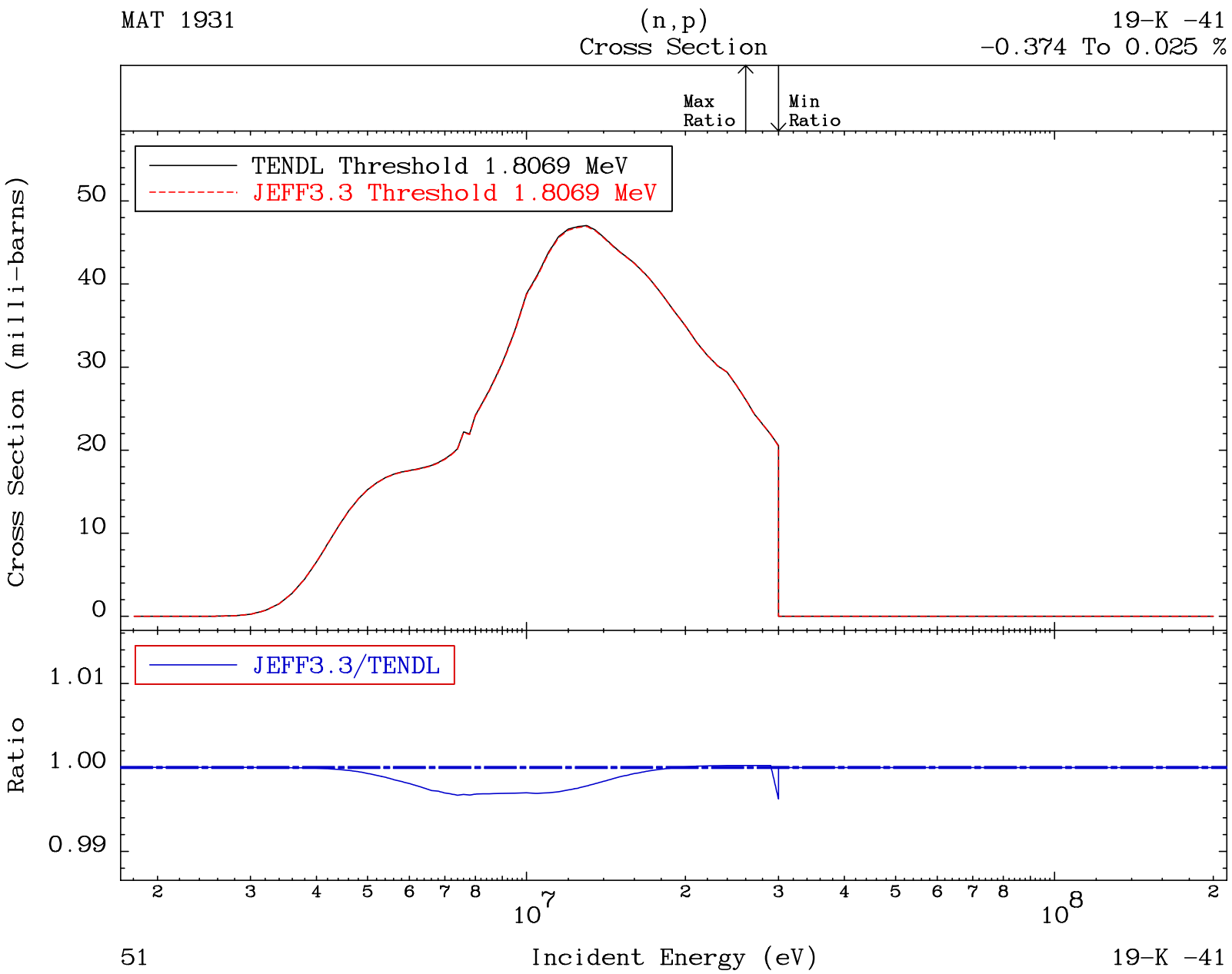

MAT 1931
MT= 78 (n,n') Level
Cross Section
19-K -41
-77.37 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.2581 MeV
JEFF3.3 Threshold 3.2581 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
19-K -41

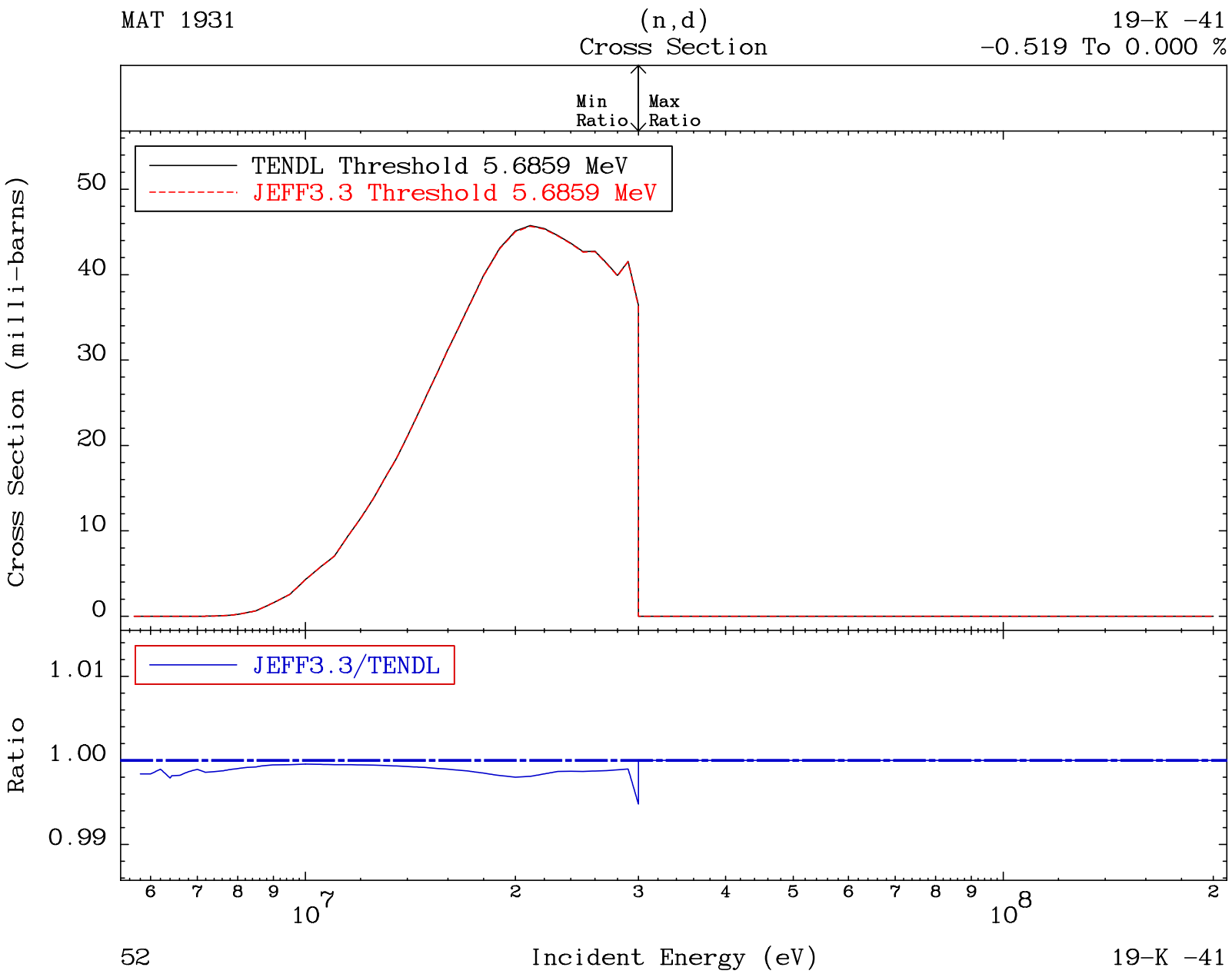

MAT 1931
MT= 79 (n,n') Level
Cross Section
19-K -41
-1.083 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.2927 MeV
JEFF3.3 Threshold 3.2927 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
19-K -41

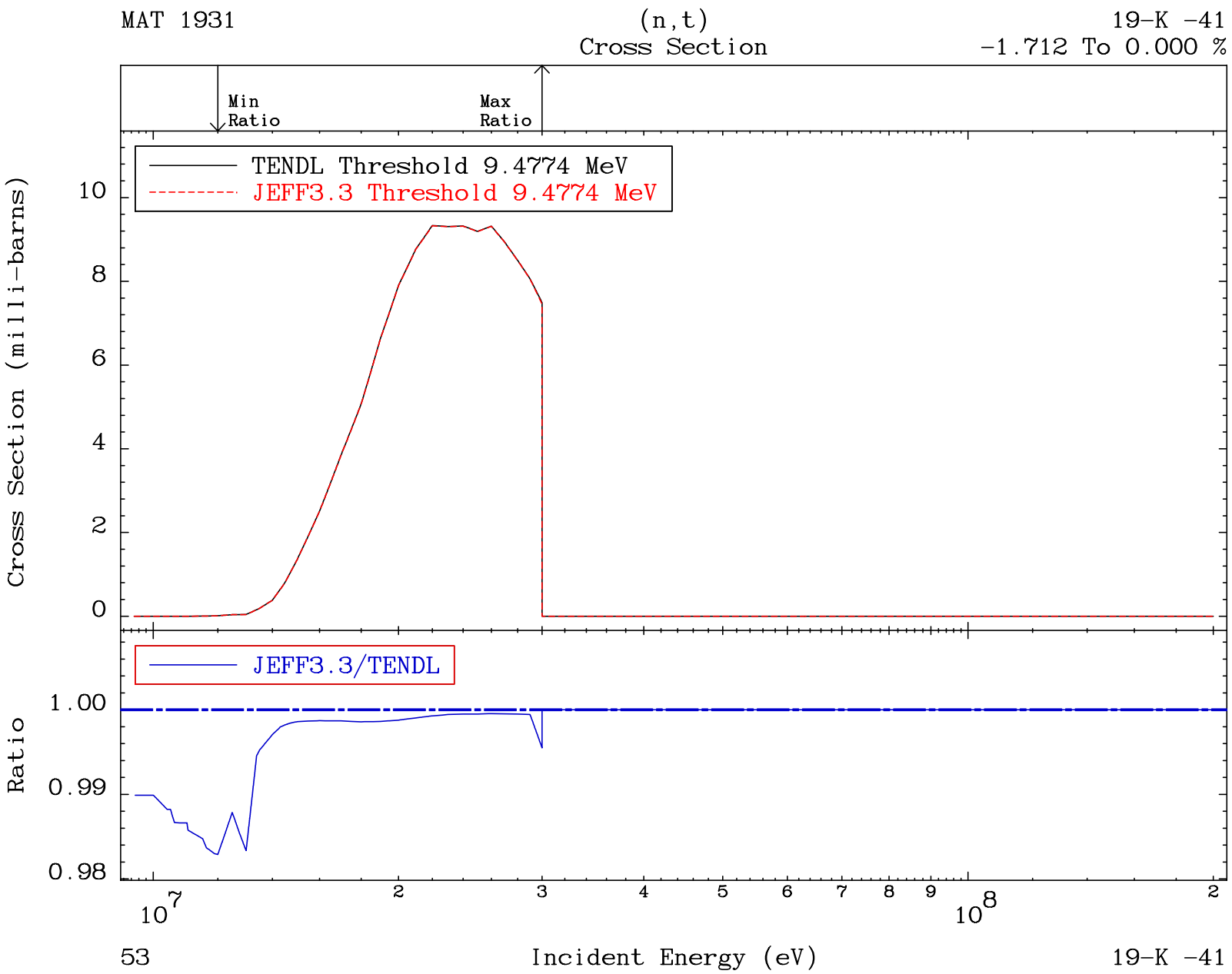

MAT 1931
MT= 80 (n,n') Level
Cross Section
19-K -41
-1.133 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.3093 MeV
JEFF3.3 Threshold 3.3093 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
19-K -41

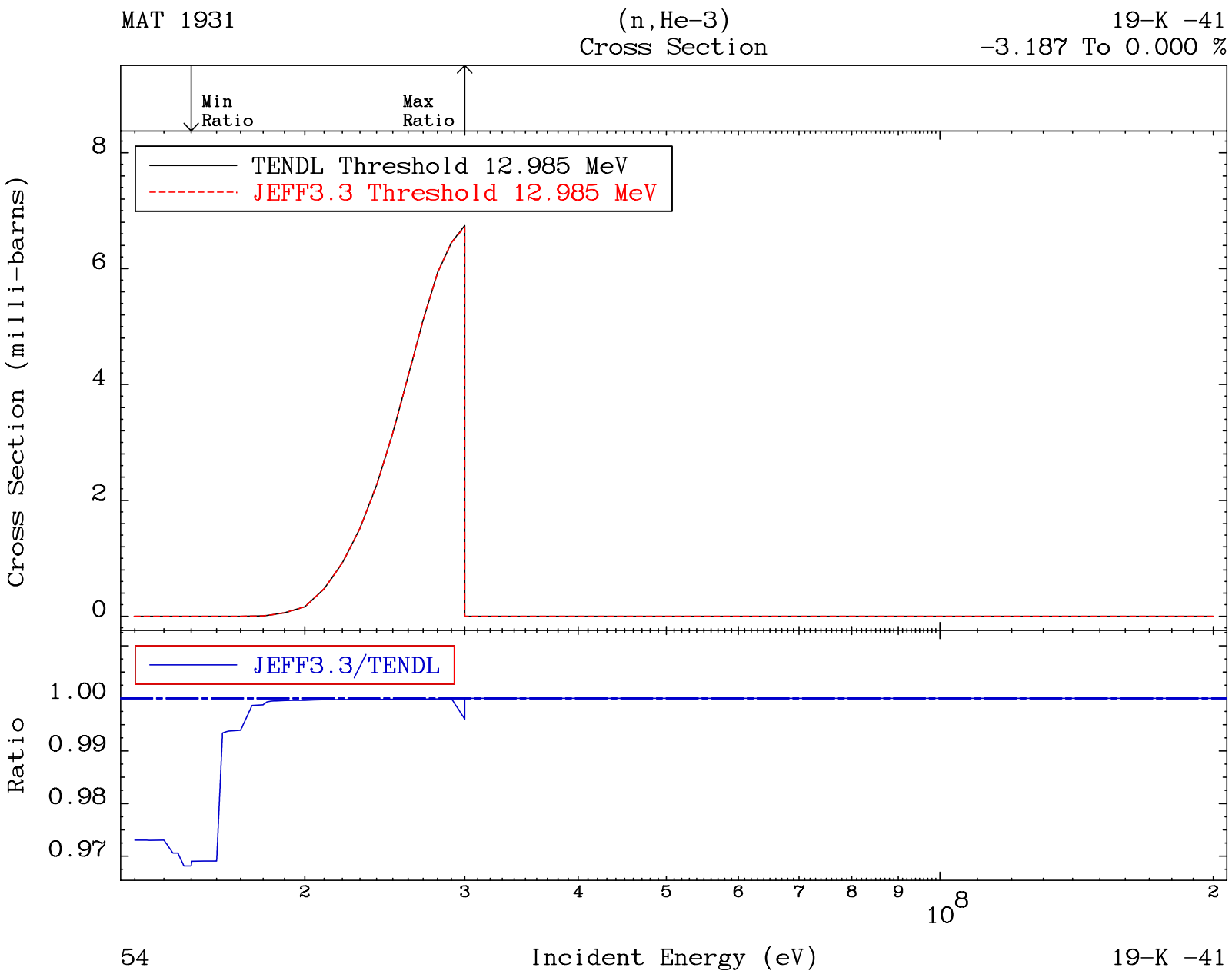

MAT 1931
(n,n') Continuum
Cross Section
19-K -41
-2.114 To 0.002 %
Max Ratio
Min Ratio
TENDL Threshold 3.3093 MeV
JEFF3.3 Threshold 3.3093 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
19-K -41

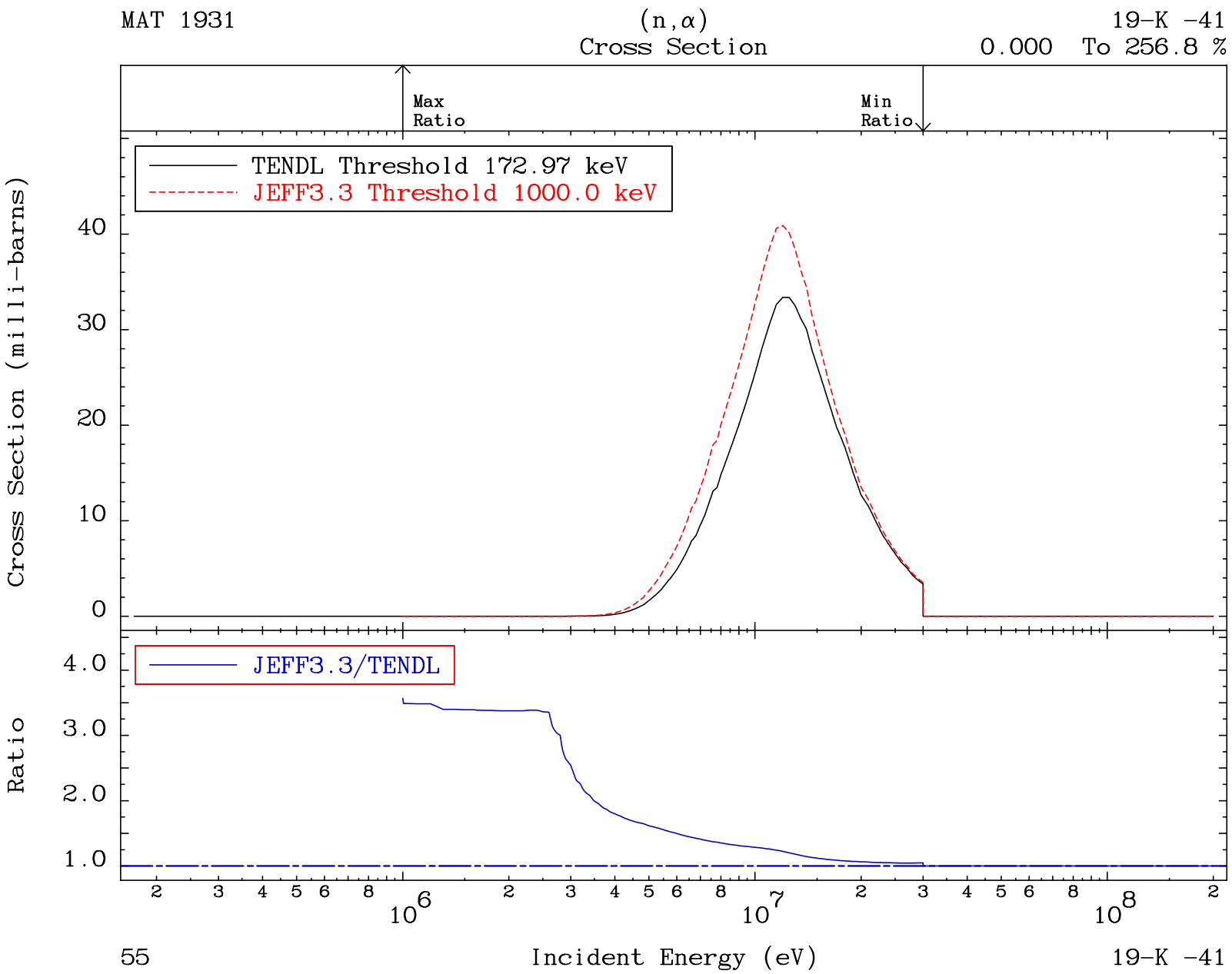

MAT 1931
(n,γ)
Cross Section
19-K -41
-99.84 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
50
19-K -41

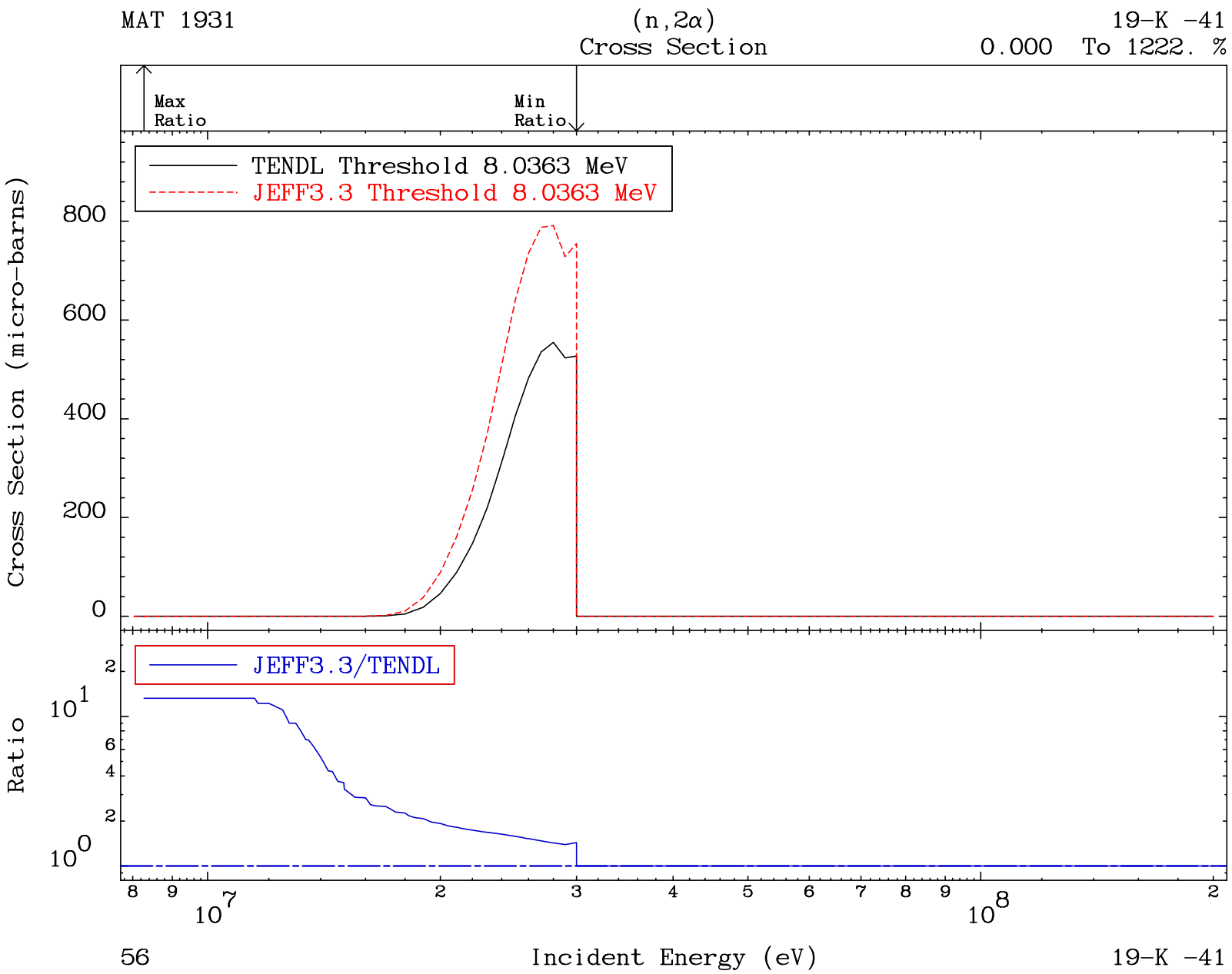

MAT 1931
(n,p)
Cross Section
19-K -41
-0.374 To 0.025 %
Max Ratio
Min Ratio
TENDL Threshold 1.8069 MeV
JEFF3.3 Threshold 1.8069 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
51
Incident Energy (eV)
19-K -41

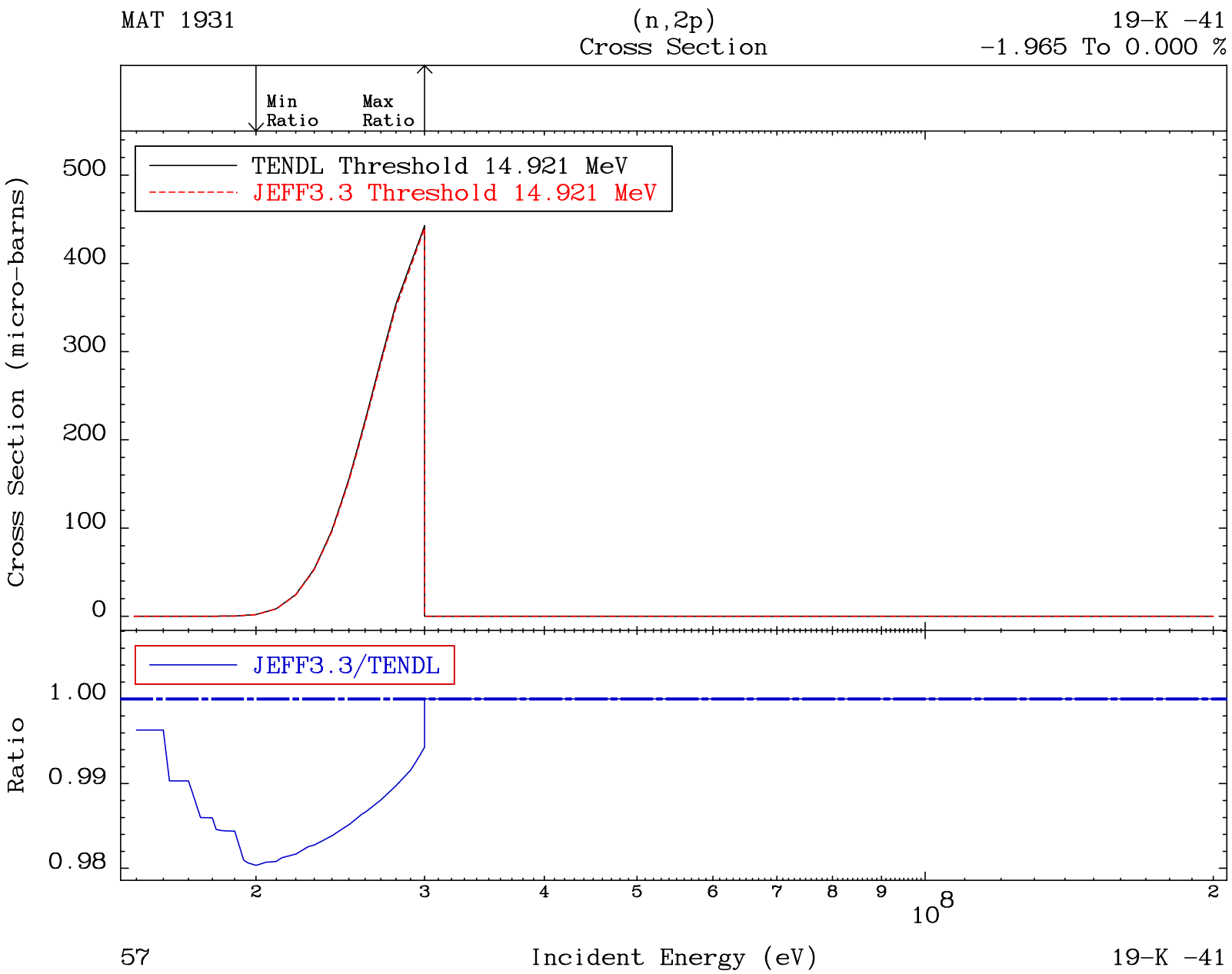

MAT 1931
(n,d)
Cross Section
19-K -41
-0.519 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 5.6859 MeV
JEFF3.3 Threshold 5.6859 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
19-K -41

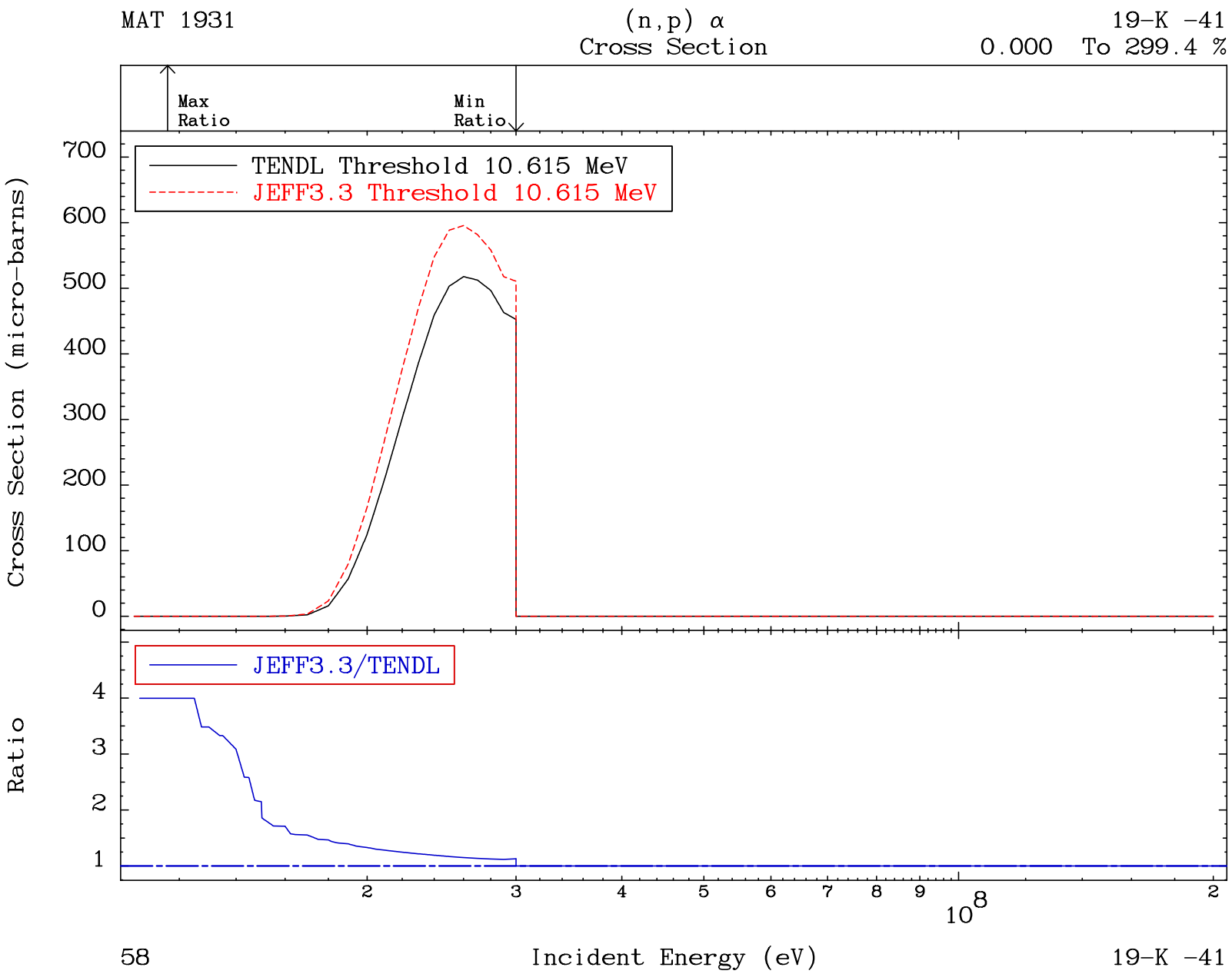

MAT 1931
(n,t)
Cross Section
19-K -41
-1.712 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 9.4774 MeV
JEFF3.3 Threshold 9.4774 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
10^7
2
3
4
5
6
7
8
9
10^8
2
53
Incident Energy (eV)
19-K -41

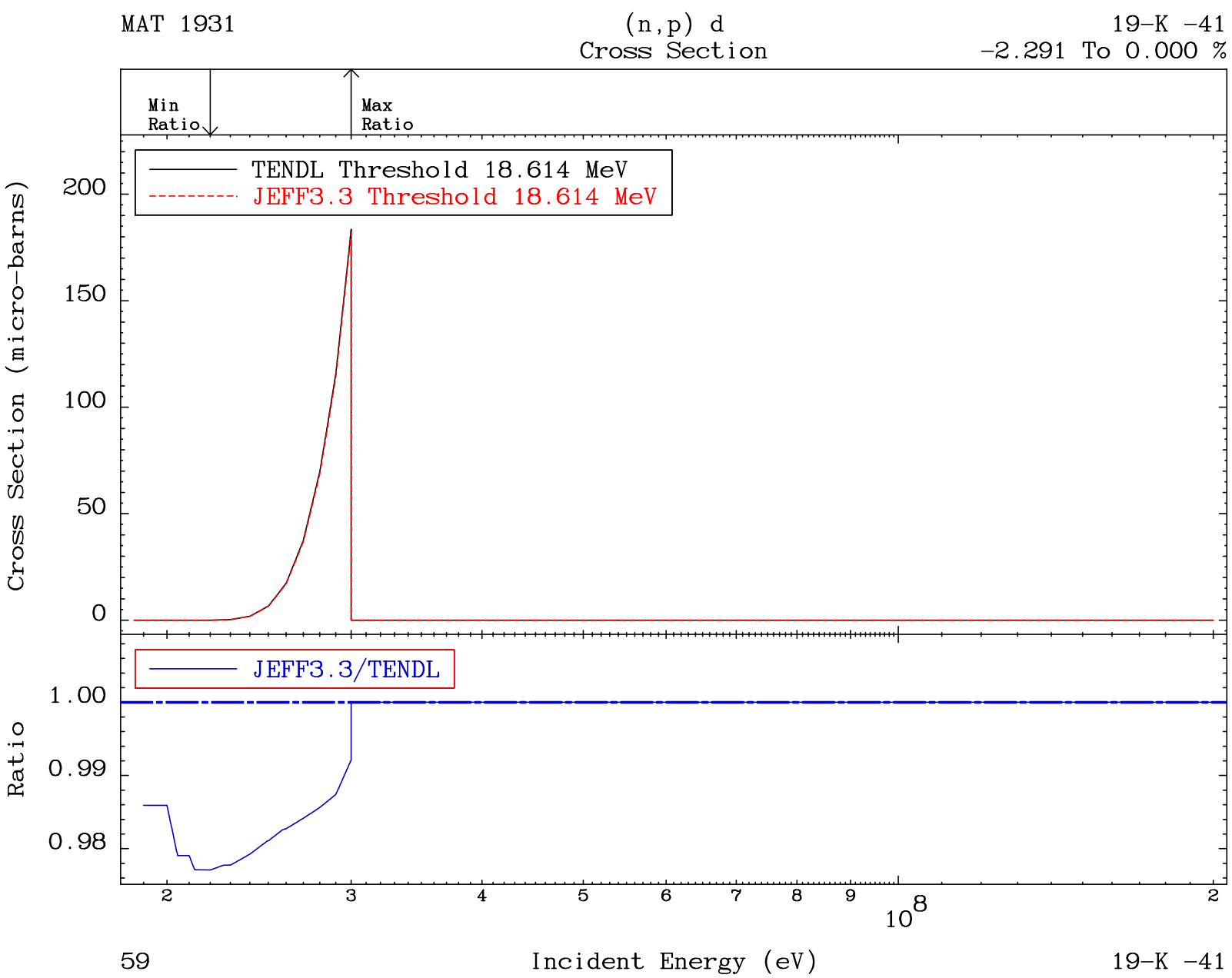

MAT 1931
(n,He-3)
Cross Section
19-K -41
-3.187 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 12.985 MeV
JEFF3.3 Threshold 12.985 MeV
Cross Section (milli-barns)
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
0.97
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
19-K -41

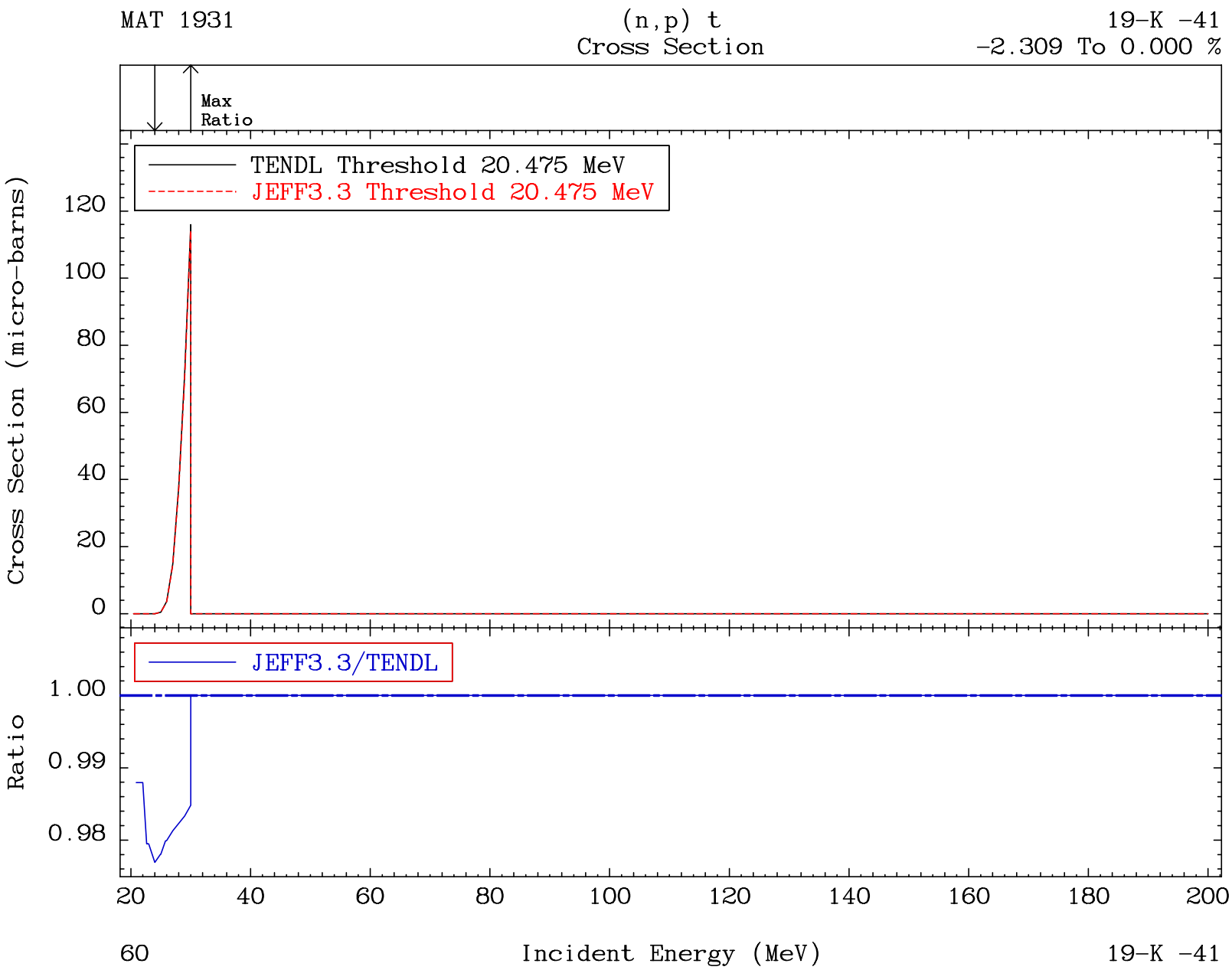

MAT 1931
(n,α)
Cross Section
19-K -41
0.000 To 256.8 %
Max Ratio
Min Ratio
TENDL Threshold 172.97 keV
JEFF3.3 Threshold 1000.0 keV
Cross Section (milli-barns)
0
10
20
30
40
JEFF3.3/TENDL
Ratio
1.0
2.0
3.0
4.0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
55
Incident Energy (eV)
19-K -41

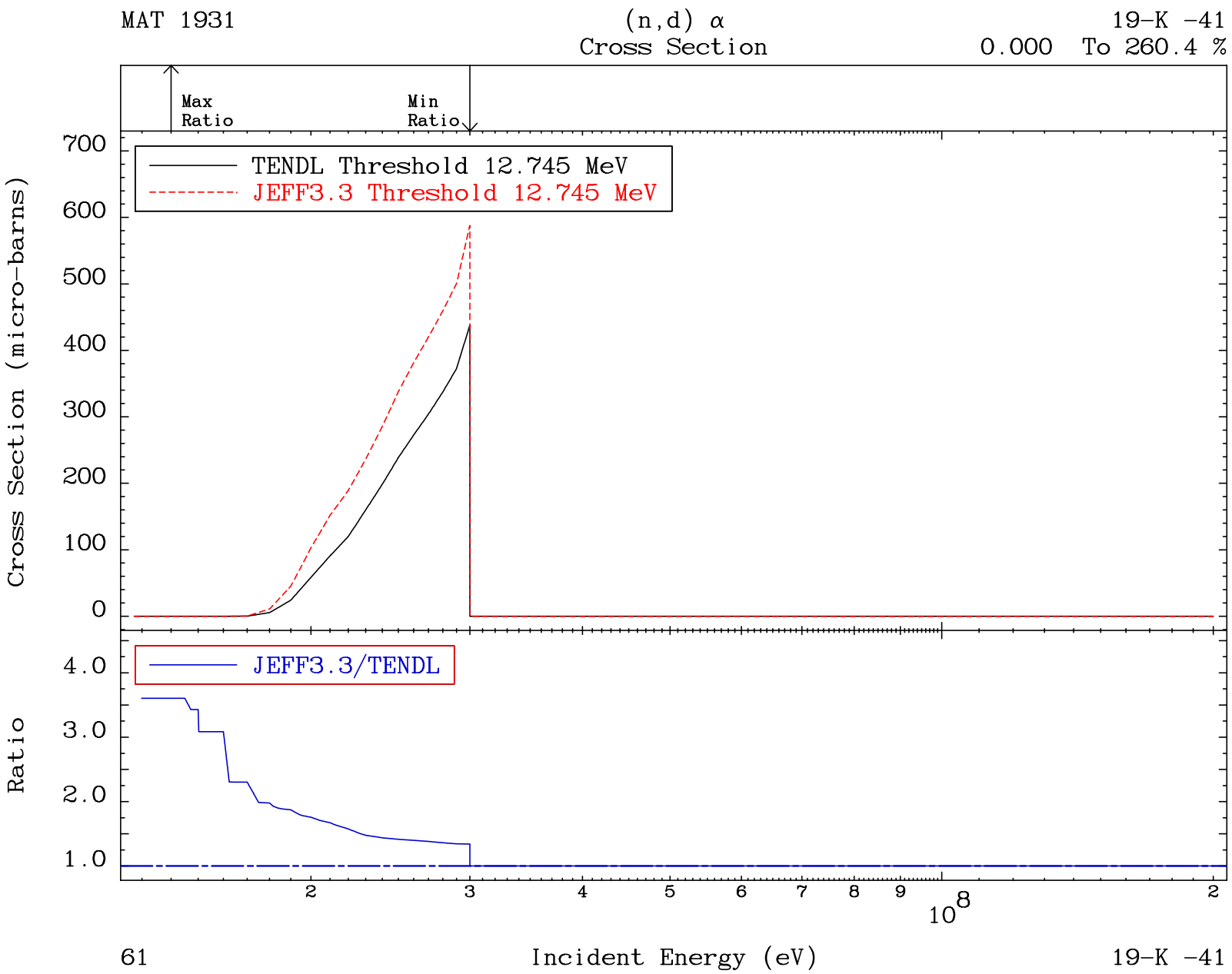

MAT 1931
(n,2α)
Cross Section
19-K -41
0.000 To 1222. %
Max Ratio
Min Ratio
TENDL Threshold 8.0363 MeV
JEFF3.3 Threshold 8.0363 MeV
Cross Section (micro-barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
56
Incident Energy (eV)
19-K -41

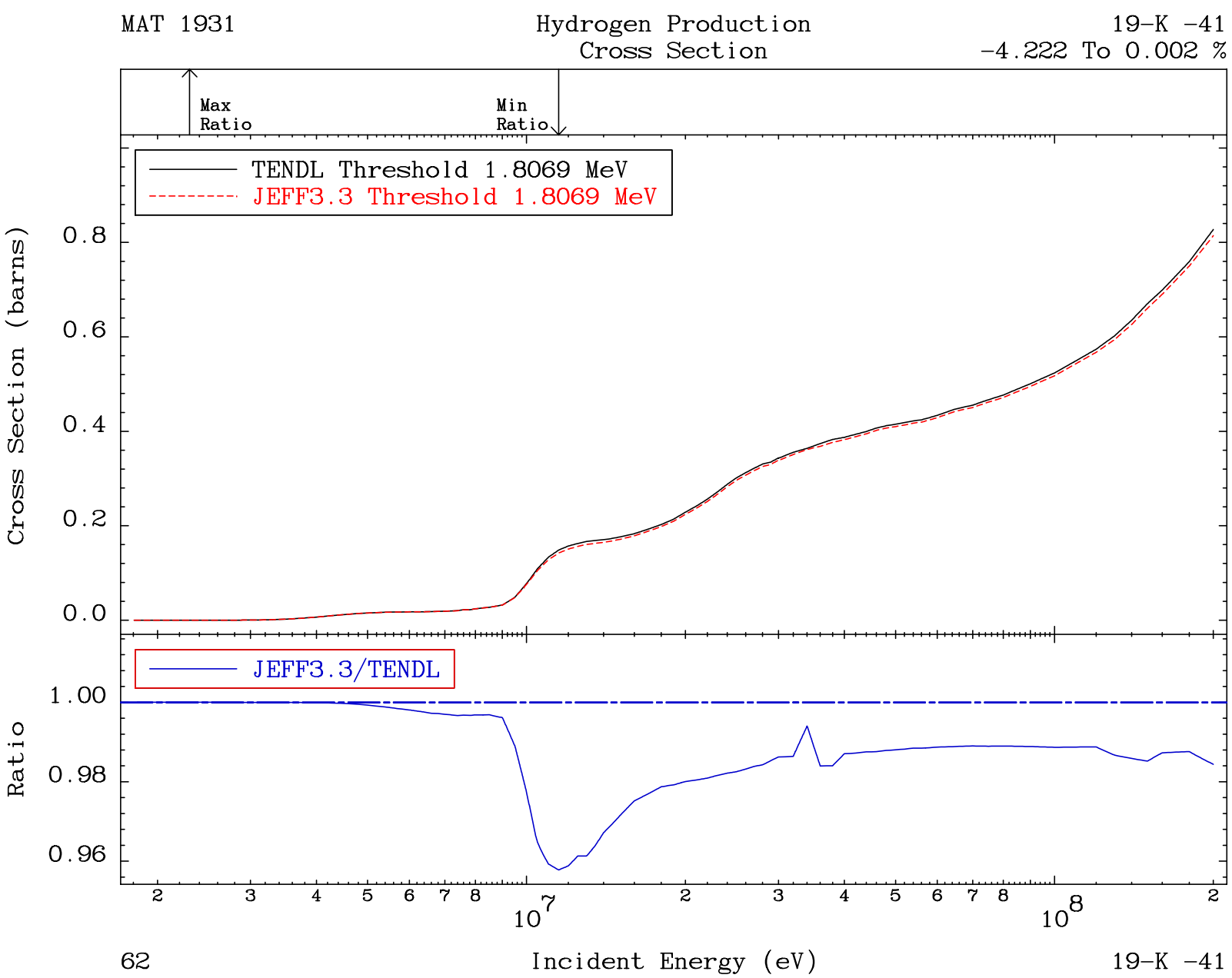

MAT 1931
(n,2p)
Cross Section
19-K -41
-1.965 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 14.921 MeV
JEFF3.3 Threshold 14.921 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
19-K -41

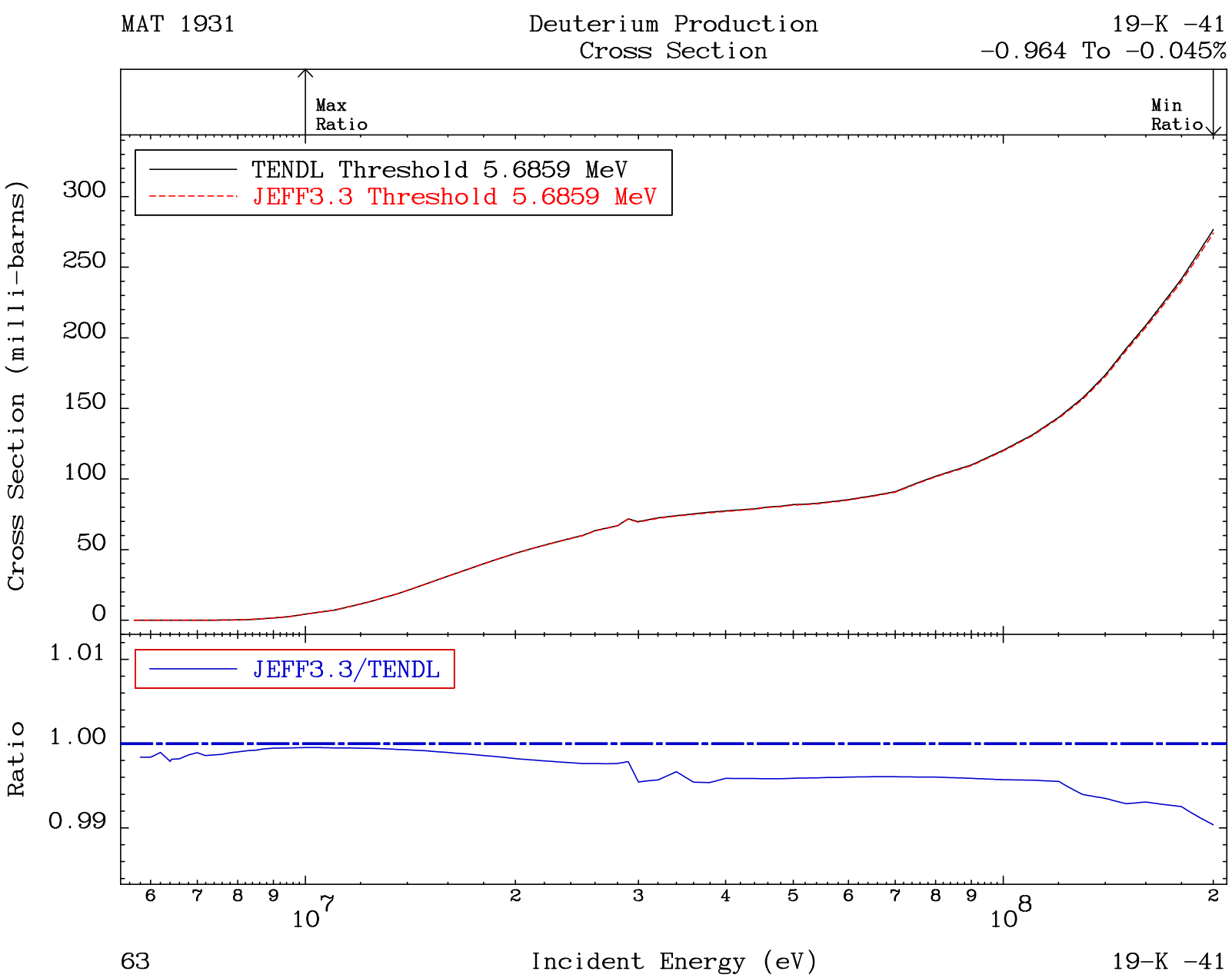

MAT 1931
(n,p) α
Cross Section
19-K -41
0.000 To 299.4 %
Max Ratio
Min Ratio
TENDL Threshold 10.615 MeV
JEFF3.3 Threshold 10.615 MeV
Cross Section (micro-barns)
700
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
4
3
2
1
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
19-K -41

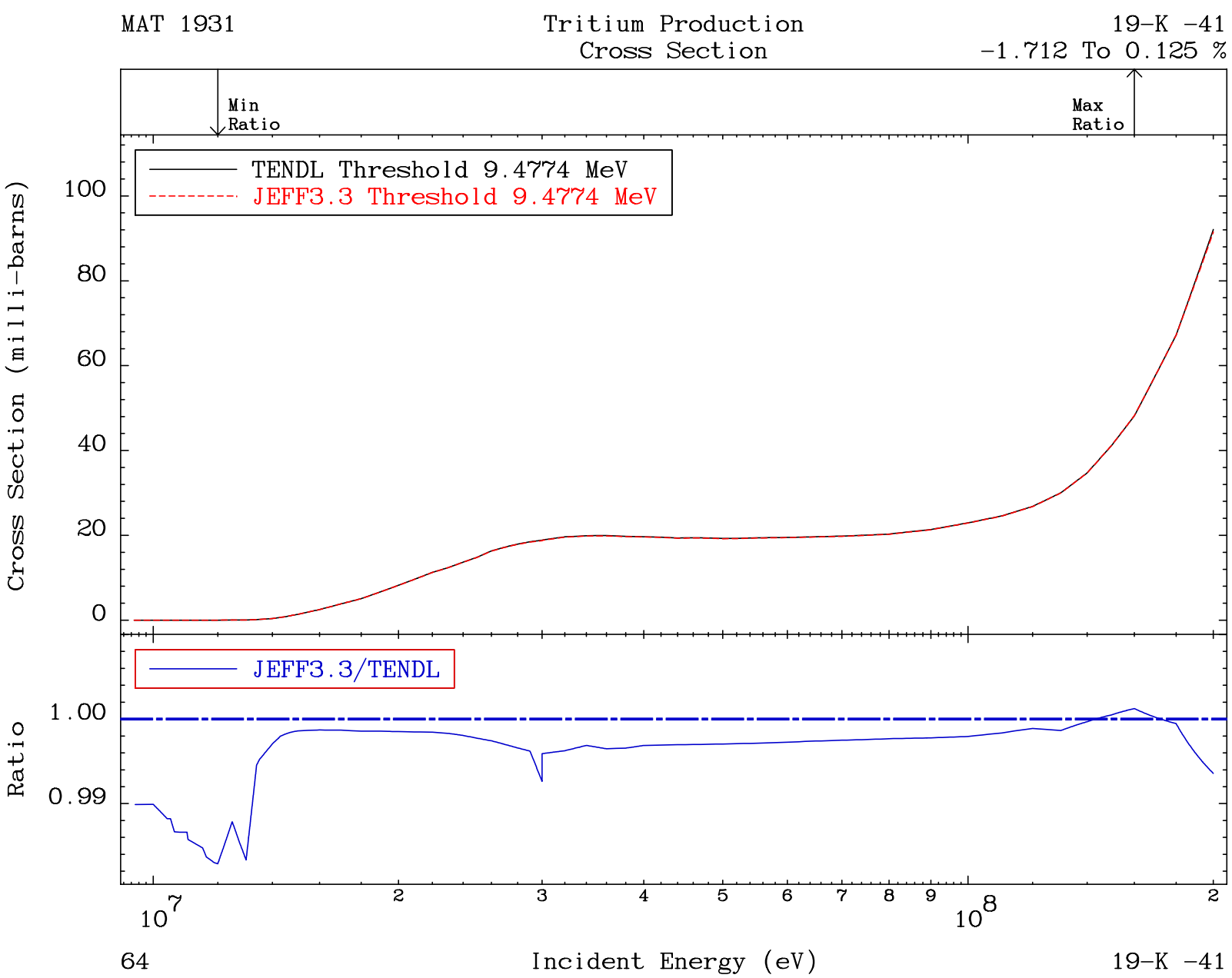

MAT 1931
(n,p) d
Cross Section
19-K -41
-2.291 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 18.614 MeV
JEFF3.3 Threshold 18.614 MeV
Cross Section (micro-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
19-K -41

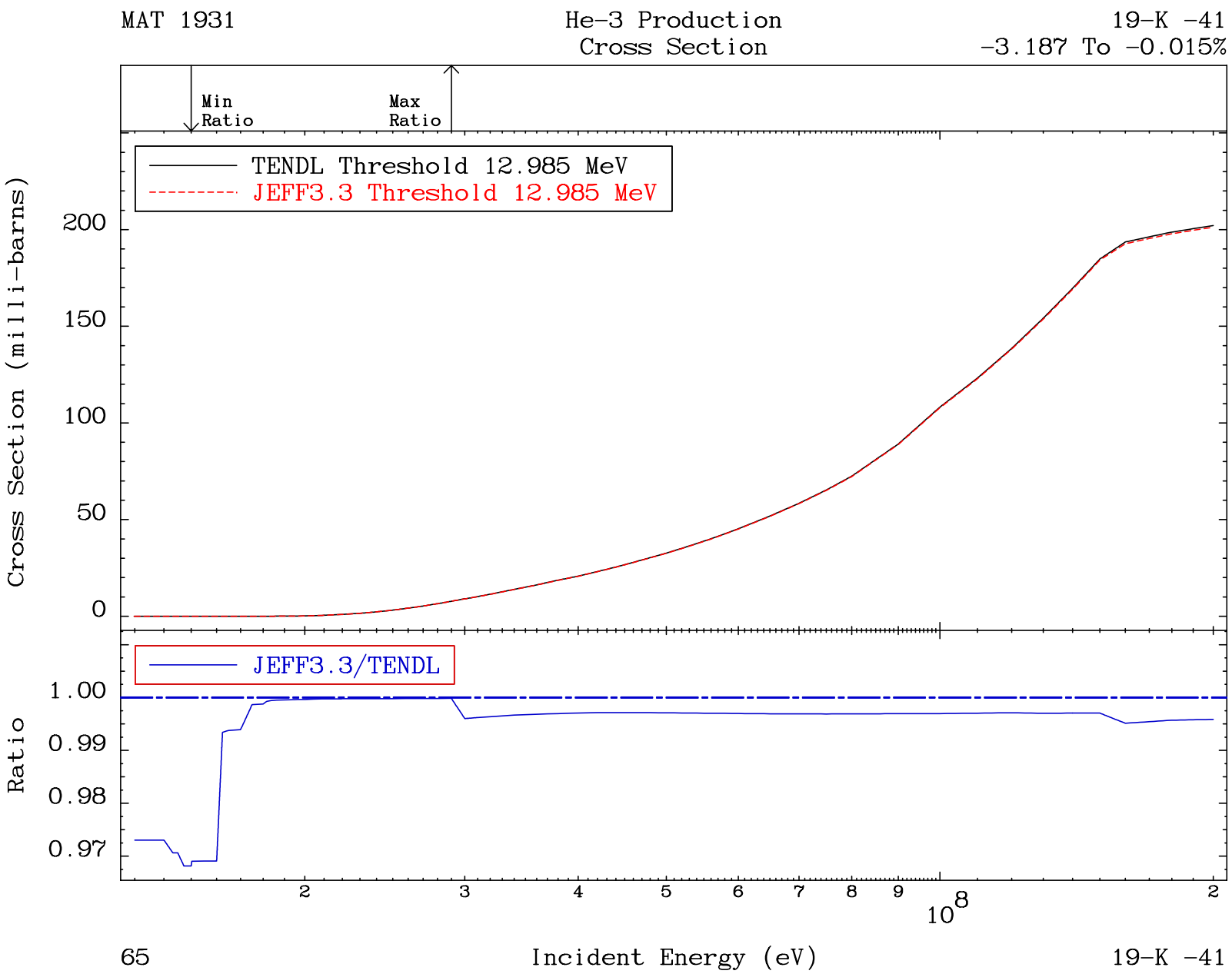

MAT 1931
(n,p) t
Cross Section
19-K -41
-2.309 To 0.000 %
Max
Ratio
TENDL Threshold 20.475 MeV
JEFF3.3 Threshold 20.475 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
20
40
60
80
100
120
140
160
180
200
60
Incident Energy (MeV)
19-K -41

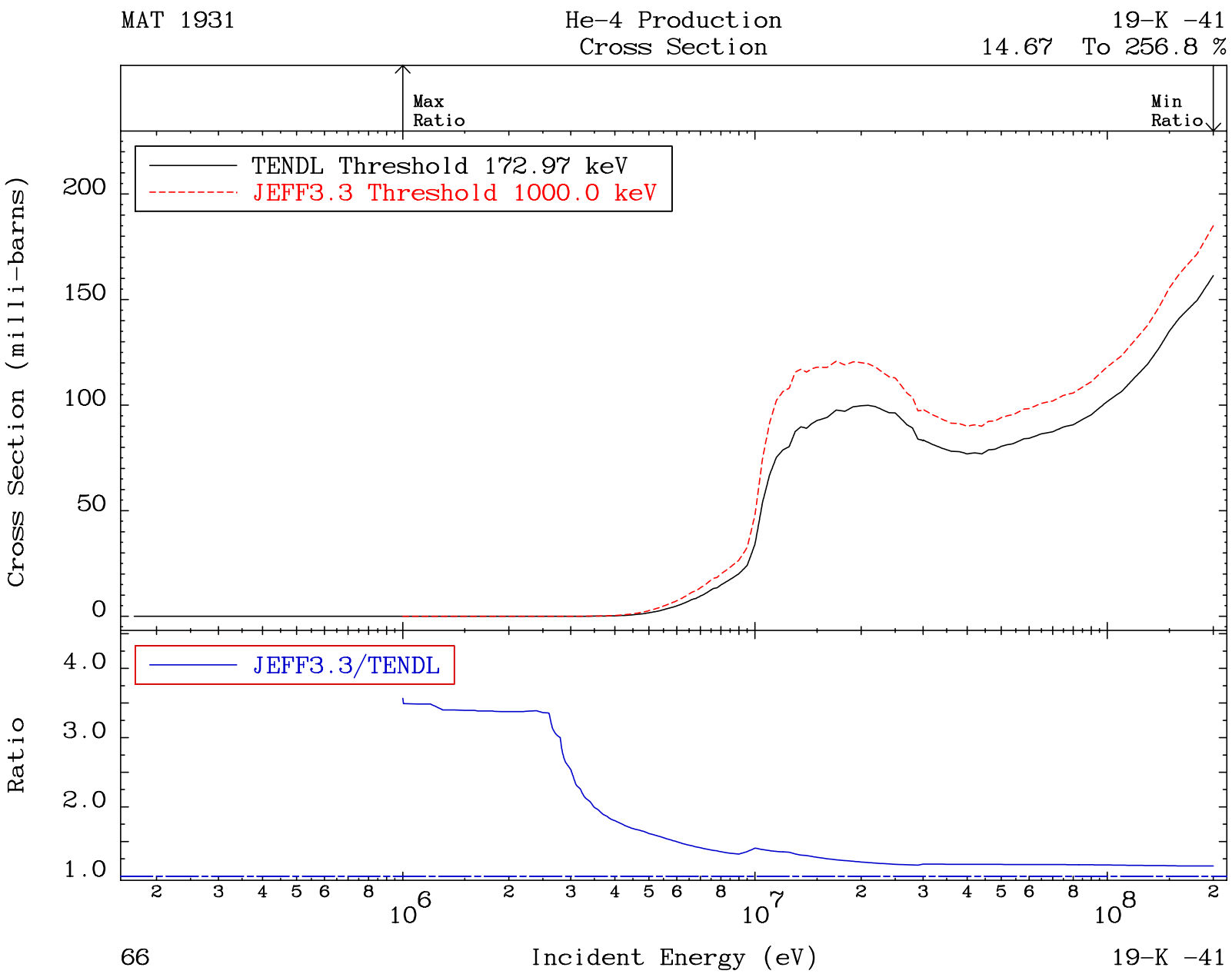

MAT 1931
(n,d) α
Cross Section
19-K -41
0.000 To 260.4 %
Max Ratio
Min Ratio
TENDL Threshold 12.745 MeV
JEFF3.3 Threshold 12.745 MeV
Cross Section (micro-barns)
700
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
19-K -41

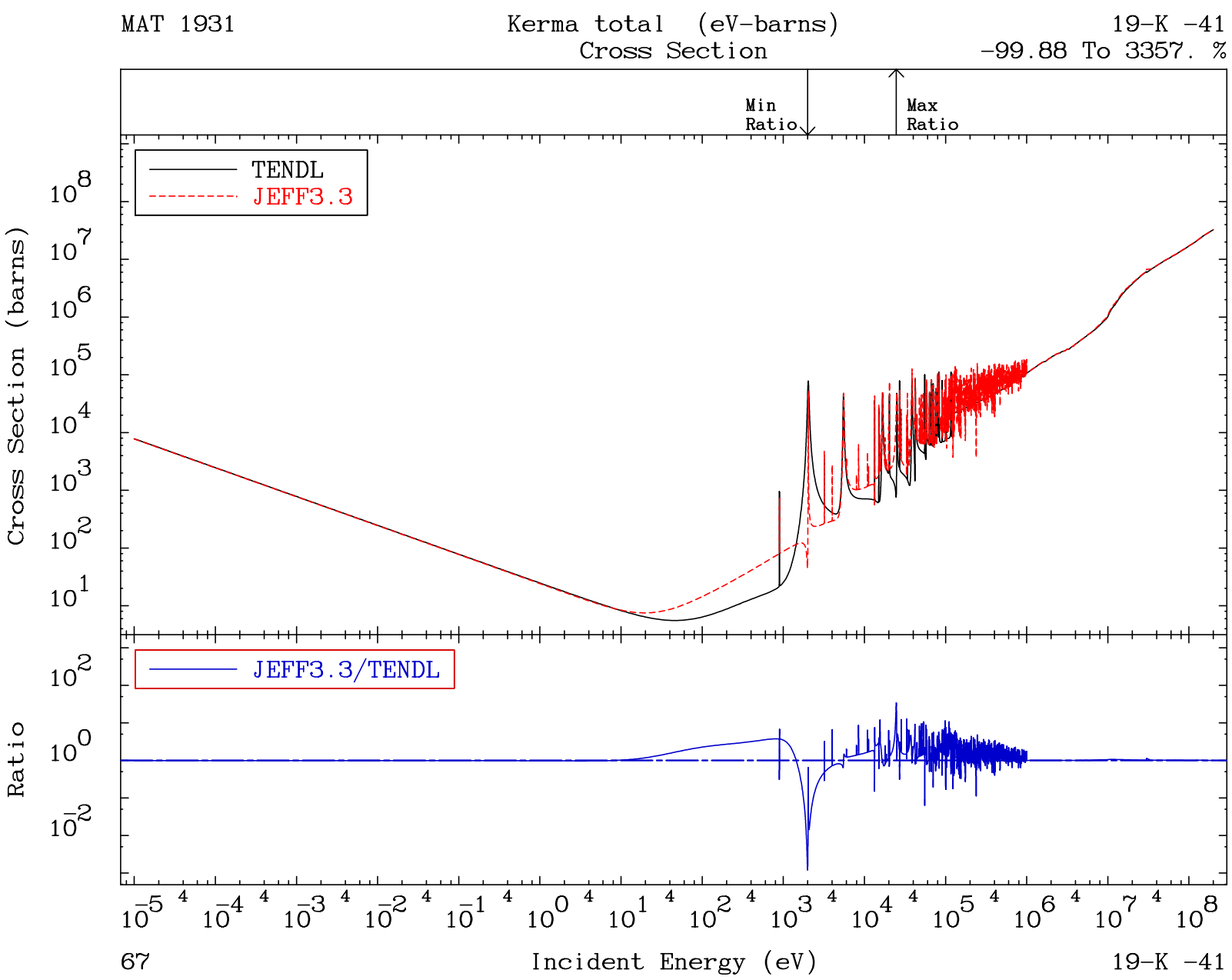

MAT 1931
Hydrogen Production
Cross Section
19-K -41
-4.222 To 0.002 %
Max Ratio
Min Ratio
TENDL Threshold 1.8069 MeV
JEFF3.3 Threshold 1.8069 MeV
Cross Section (barns)
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.00
0.98
0.96
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
62
Incident Energy (eV)
19-K -41

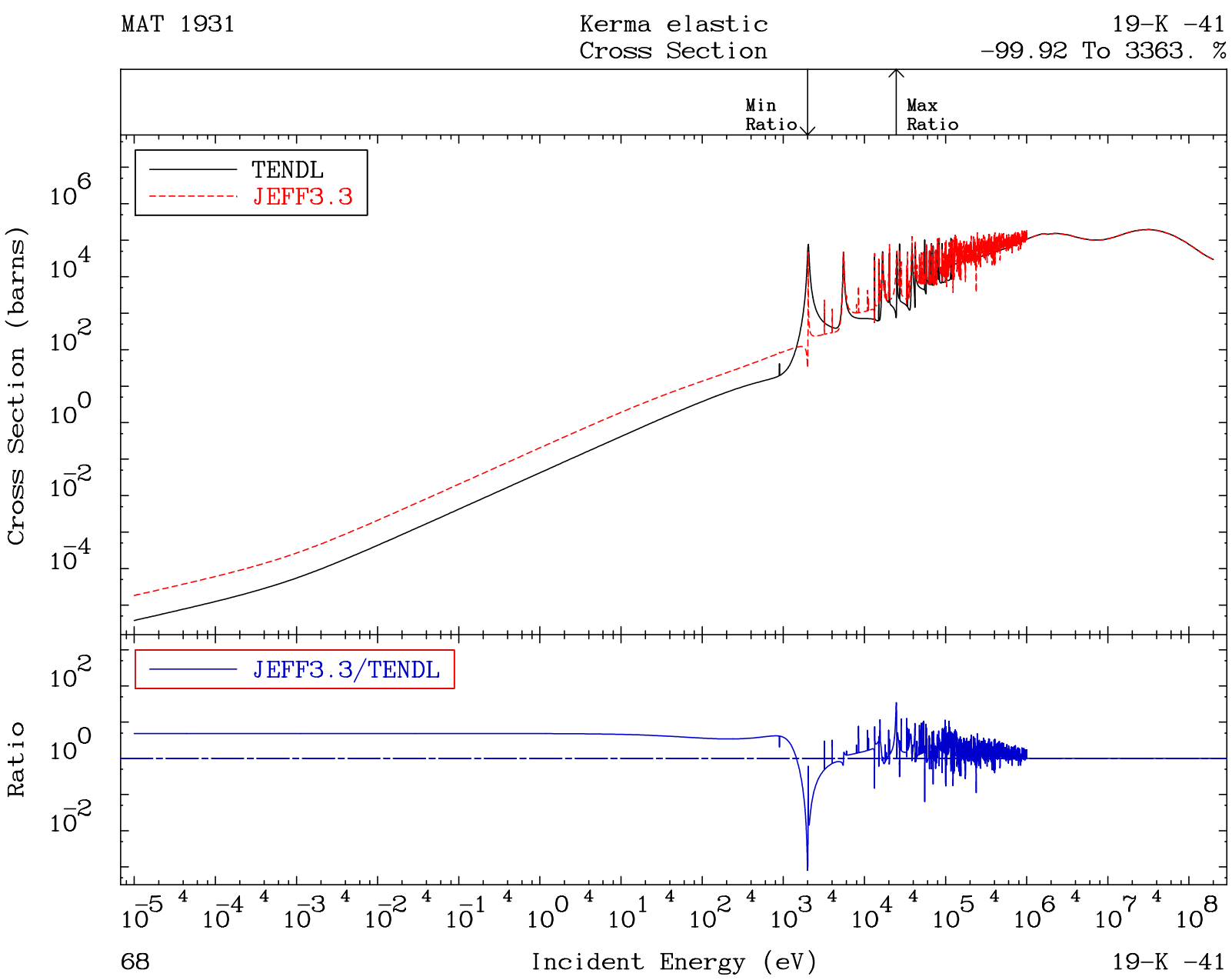

MAT 1931
Deuterium Production
Cross Section
19-K -41
-0.964 To -0.045%
Max
Ratio
Min
Ratio
TENDL Threshold 5.6859 MeV
JEFF3.3 Threshold 5.6859 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
63
Incident Energy (eV)
19-K -41

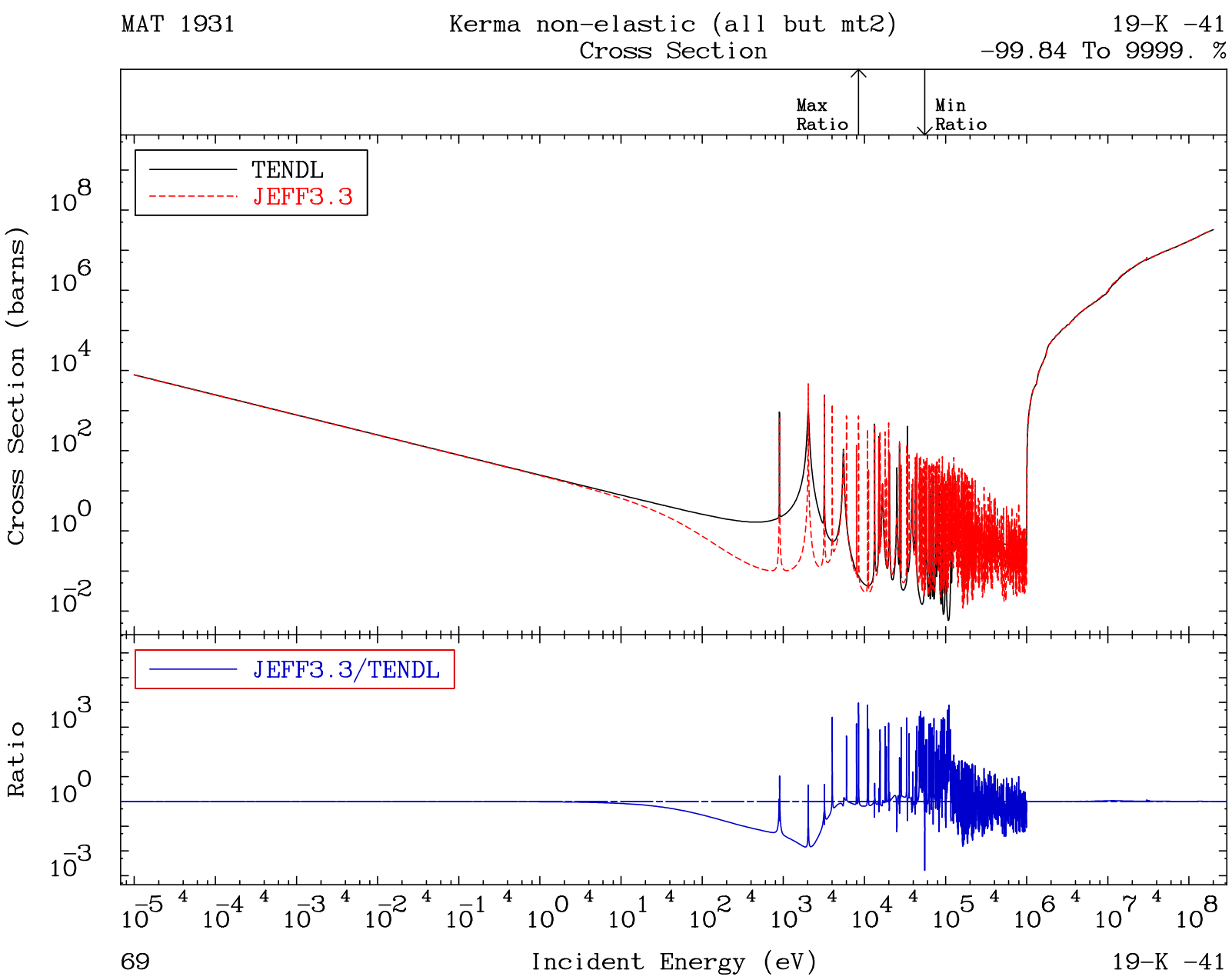

MAT 1931
Tritium Production
Cross Section
19-K -41
-1.712 To 0.125 %
Min
Ratio
Max
Ratio
TENDL Threshold 9.4774 MeV
JEFF3.3 Threshold 9.4774 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
19-K -41

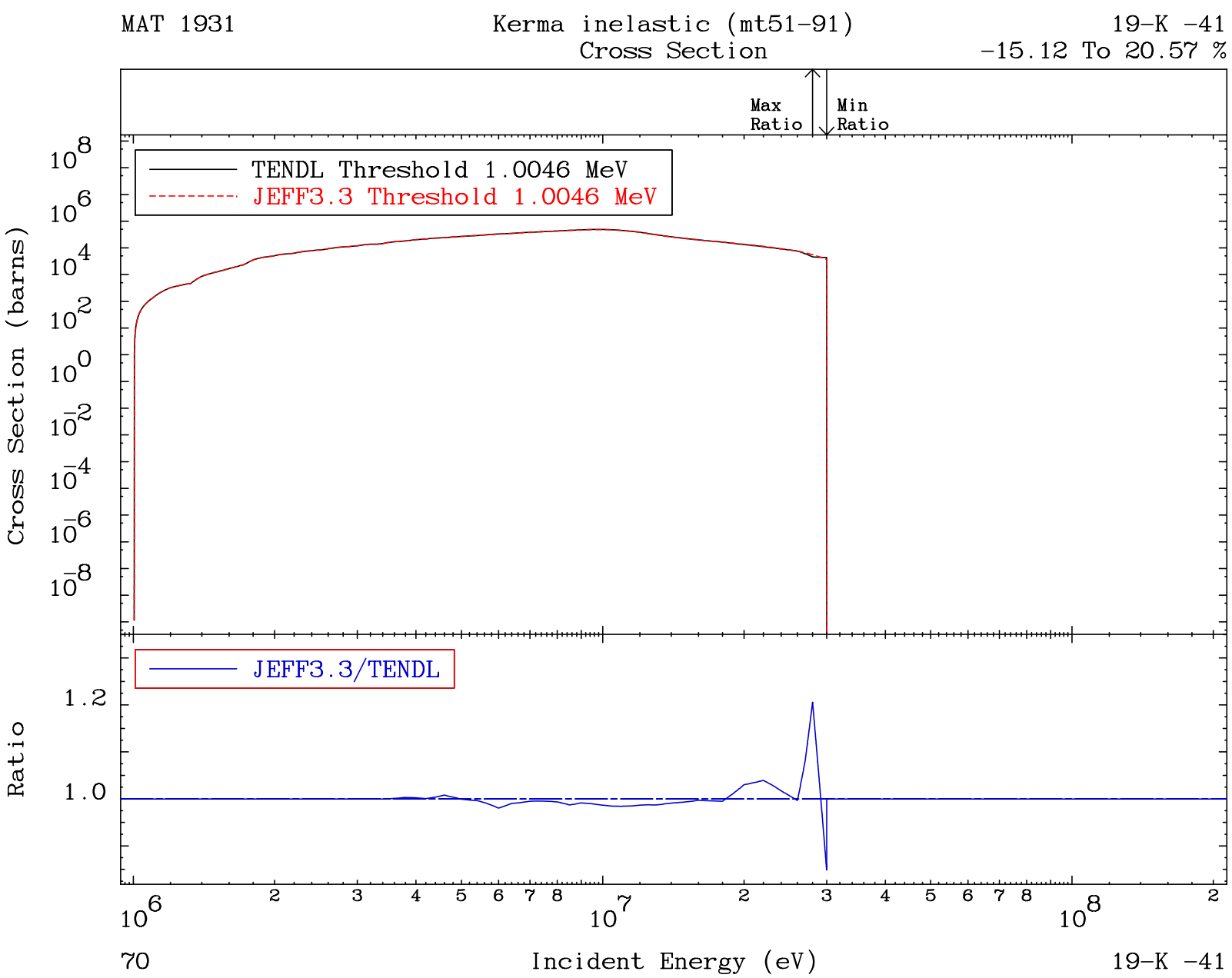

MAT 1931
He-3 Production
Cross Section
19-K -41
-3.187 To -0.015%
Min Ratio
Max Ratio
TENDL Threshold 12.985 MeV
JEFF3.3 Threshold 12.985 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
0.97
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
19-K -41

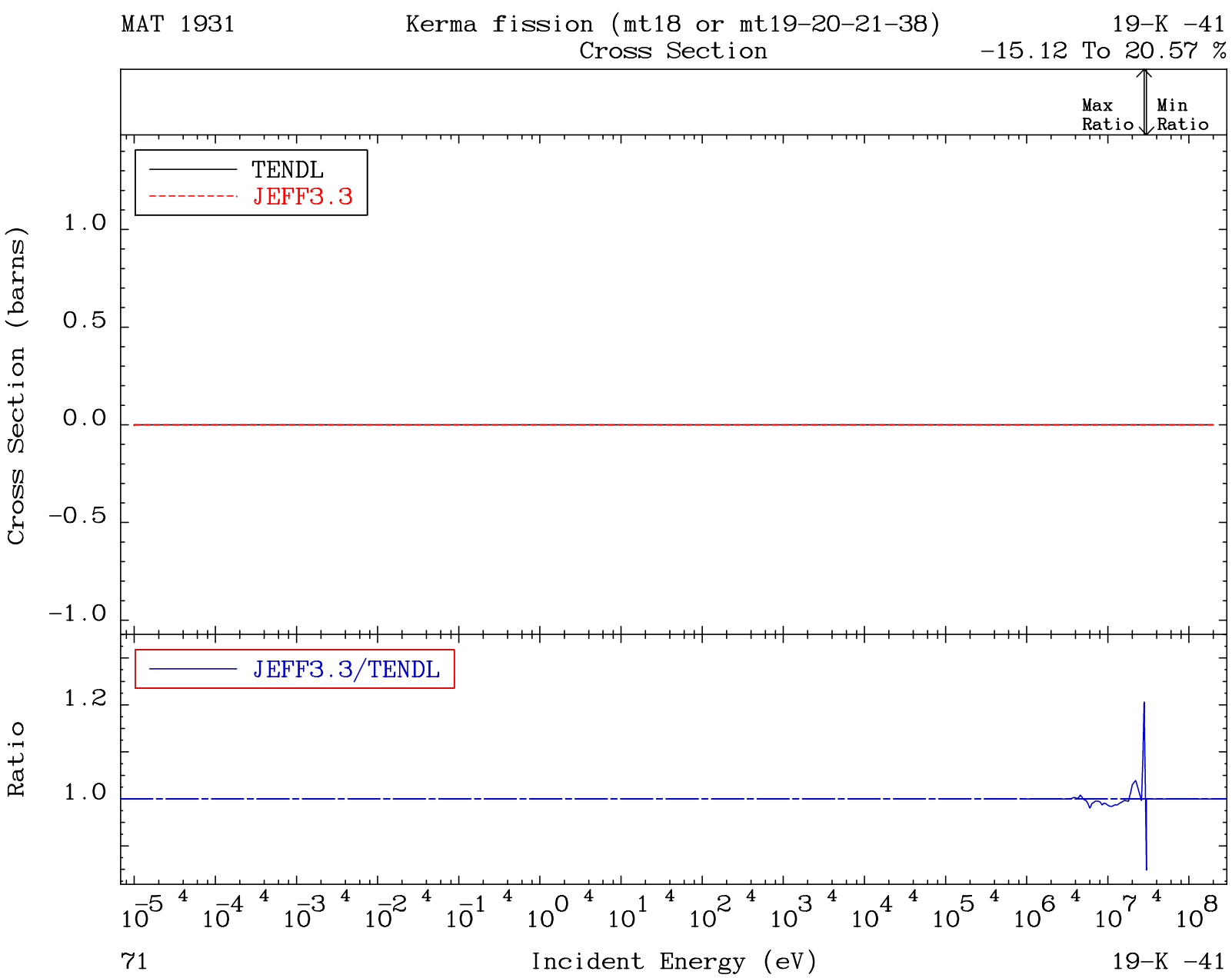

MAT 1931
He-4 Production
Cross Section
19-K -41
14.67 To 256.8 %
Max Ratio
Min Ratio
TENDL Threshold 172.97 keV
JEFF3.3 Threshold 1000.0 keV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
66
Incident Energy (eV)
19-K -41

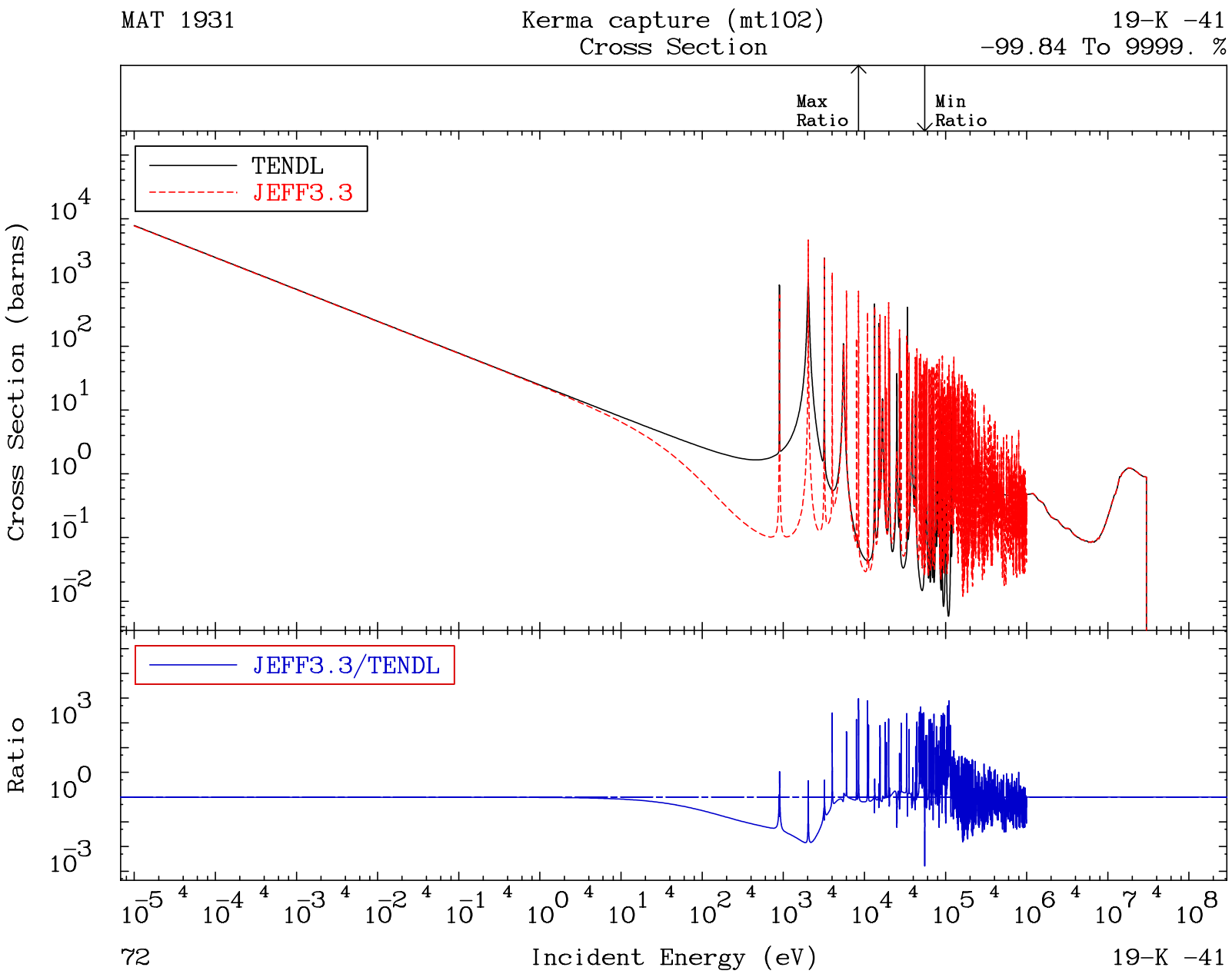

MAT 1931
Kerma total (eV-barns)
Cross Section
19-K -41
-99.88 To 3357. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
67
19-K -41

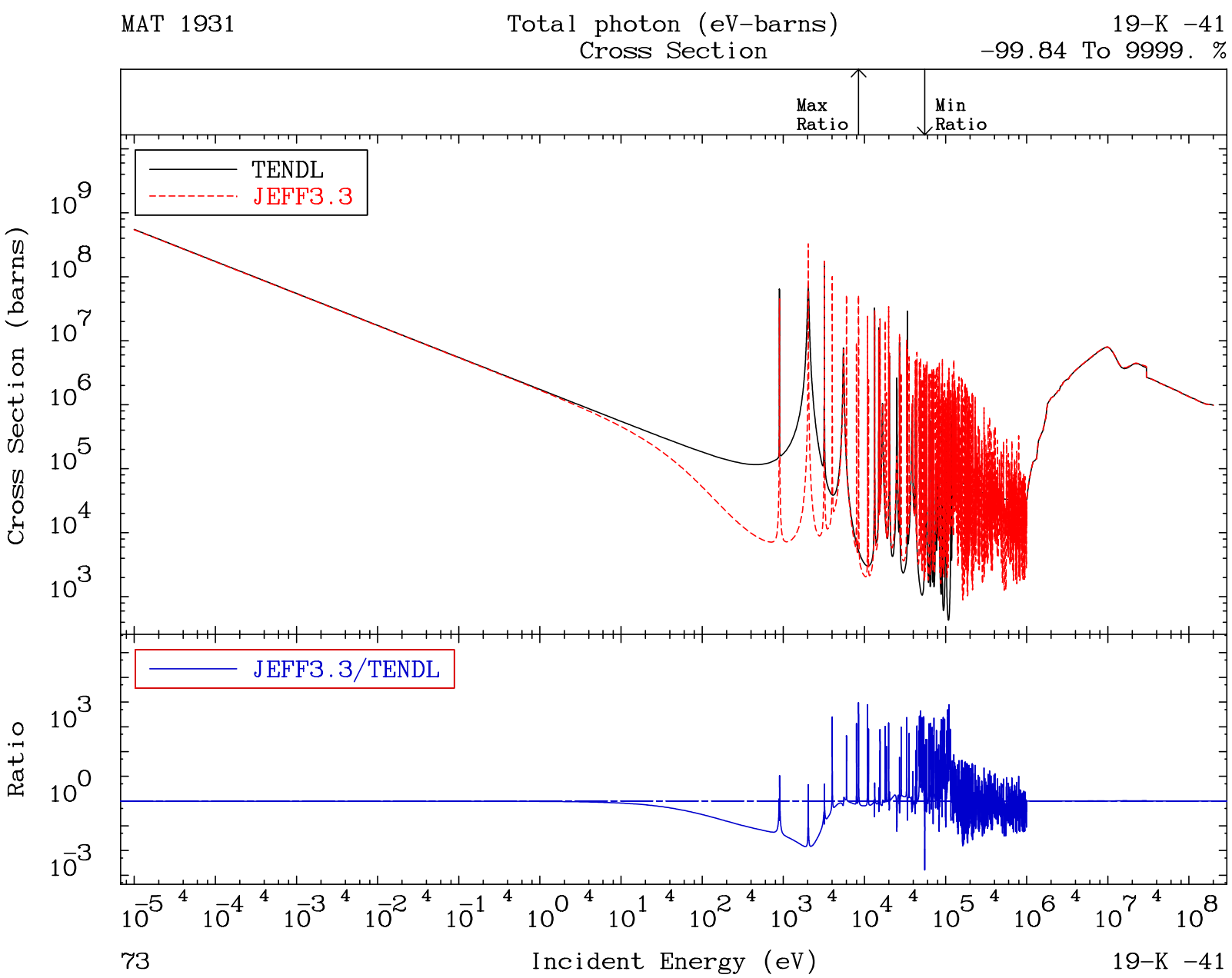

MAT 1931
Kerma elastic
Cross Section
19-K -41
-99.92 To 3363. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
19-K -41

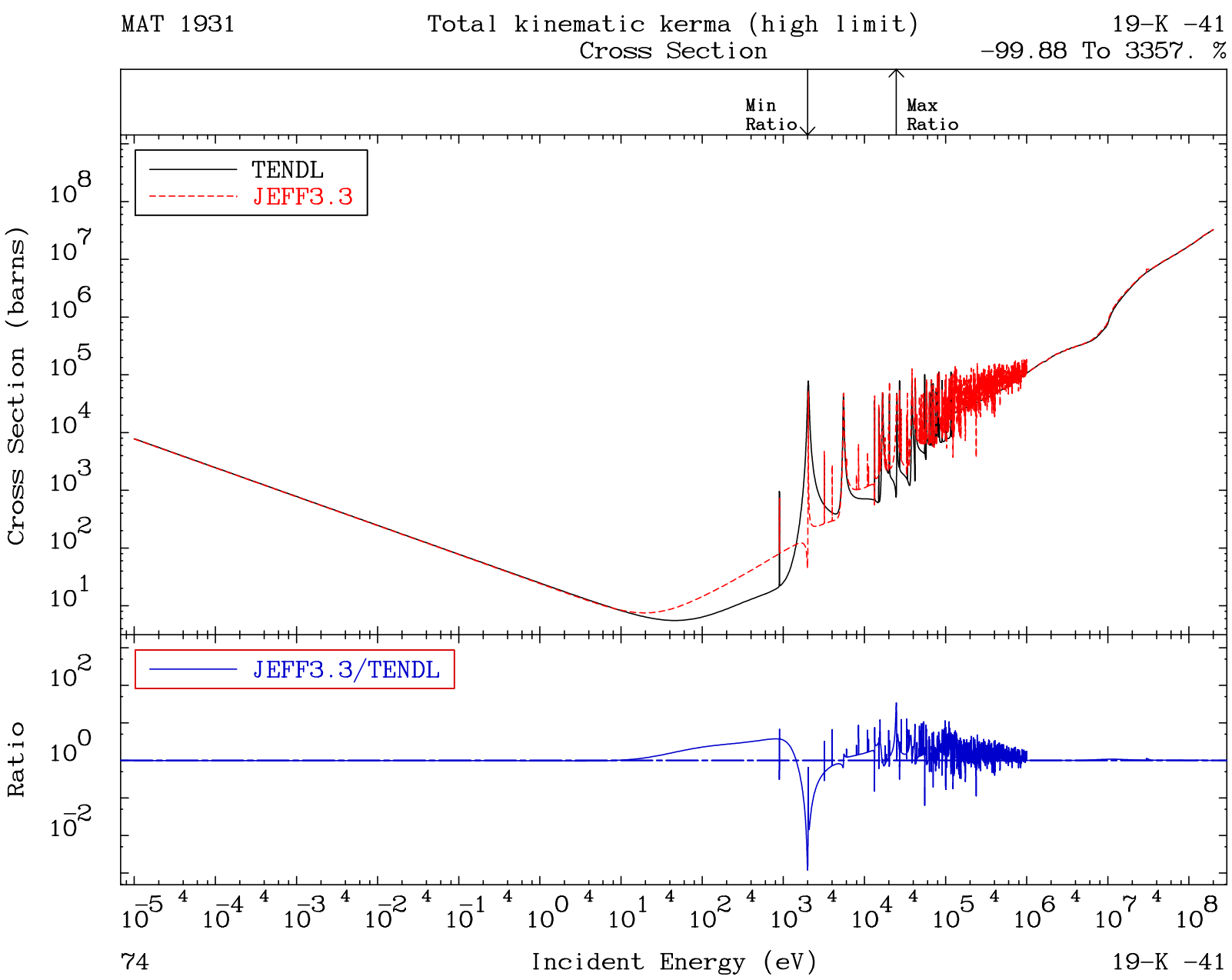

MAT 1931
Kerma non-elastic (all but mt2)
Cross Section
19-K -41
-99.84 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
19-K -41

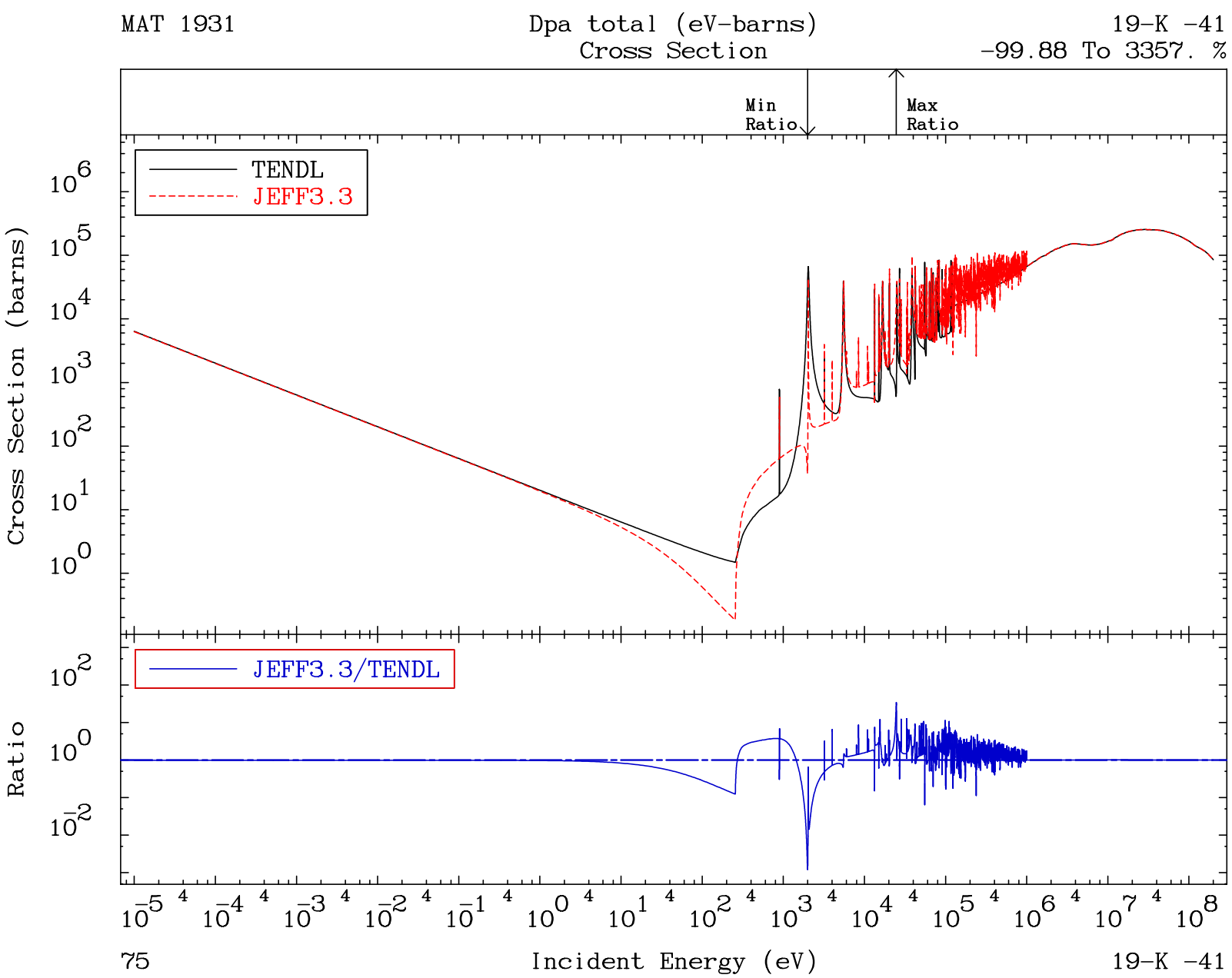

MAT 1931
Kerma inelastic (mt51-91)
Cross Section
19-K -41
-15.12 To 20.57 %
Max Ratio
Min Ratio
TENDL Threshold 1.0046 MeV
JEFF3.3 Threshold 1.0046 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
19-K -41

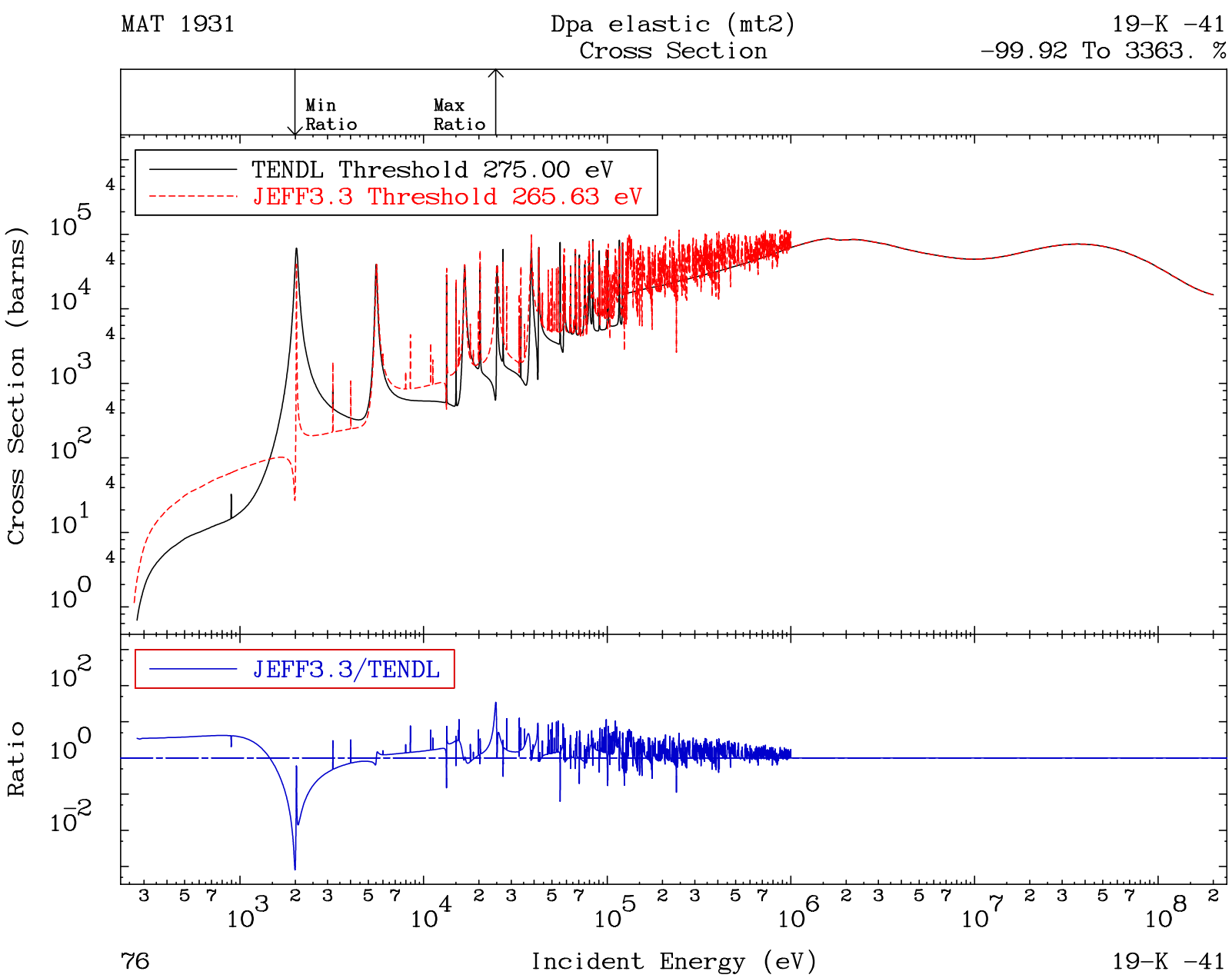

MAT 1931
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
19-K -41
-15.12 To 20.57 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
1.2
1.0
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
71
Incident Energy (eV)
19-K -41

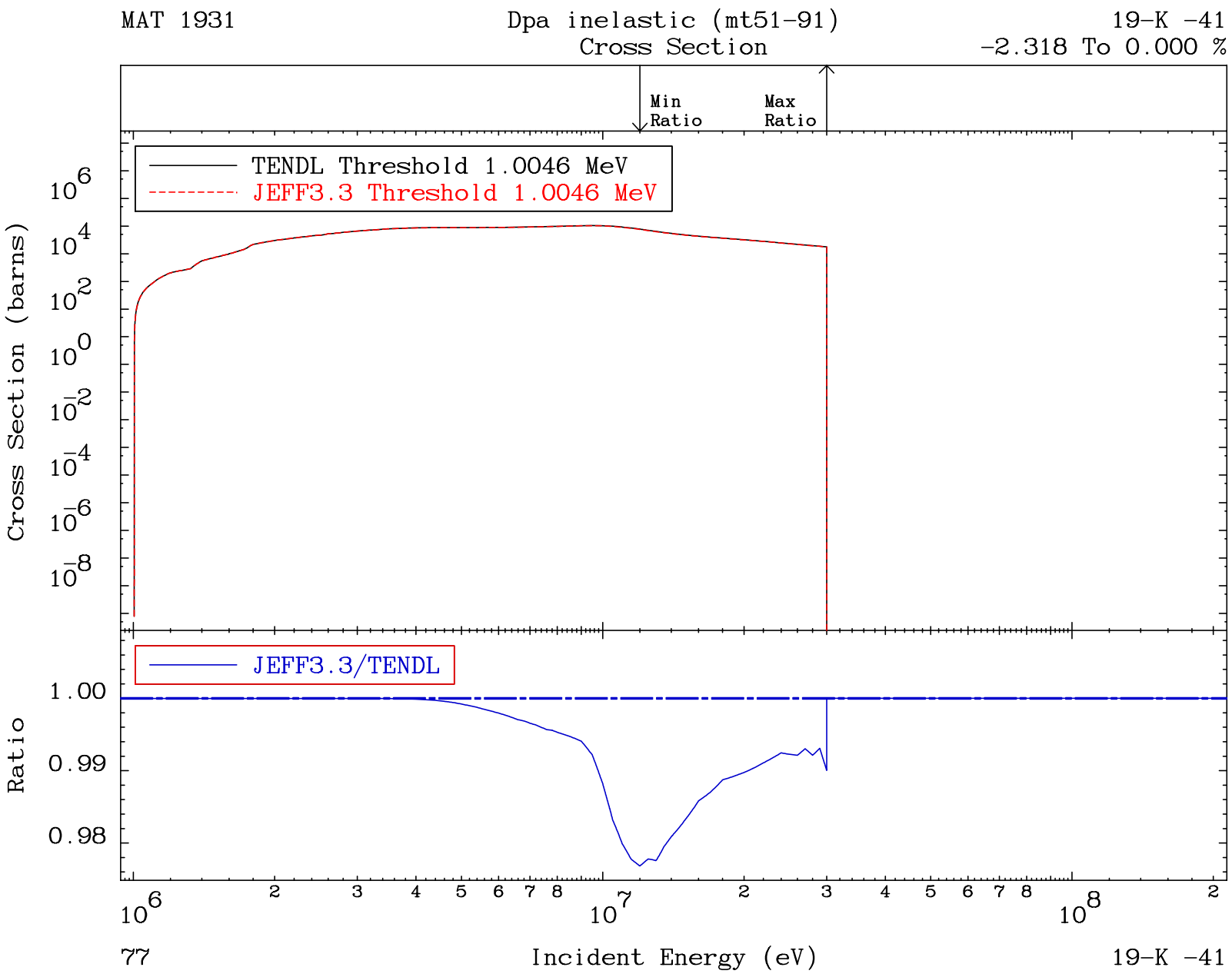

MAT 1931
Kerma capture (mt102)
Cross Section
19-K -41
-99.84 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
19-K -41

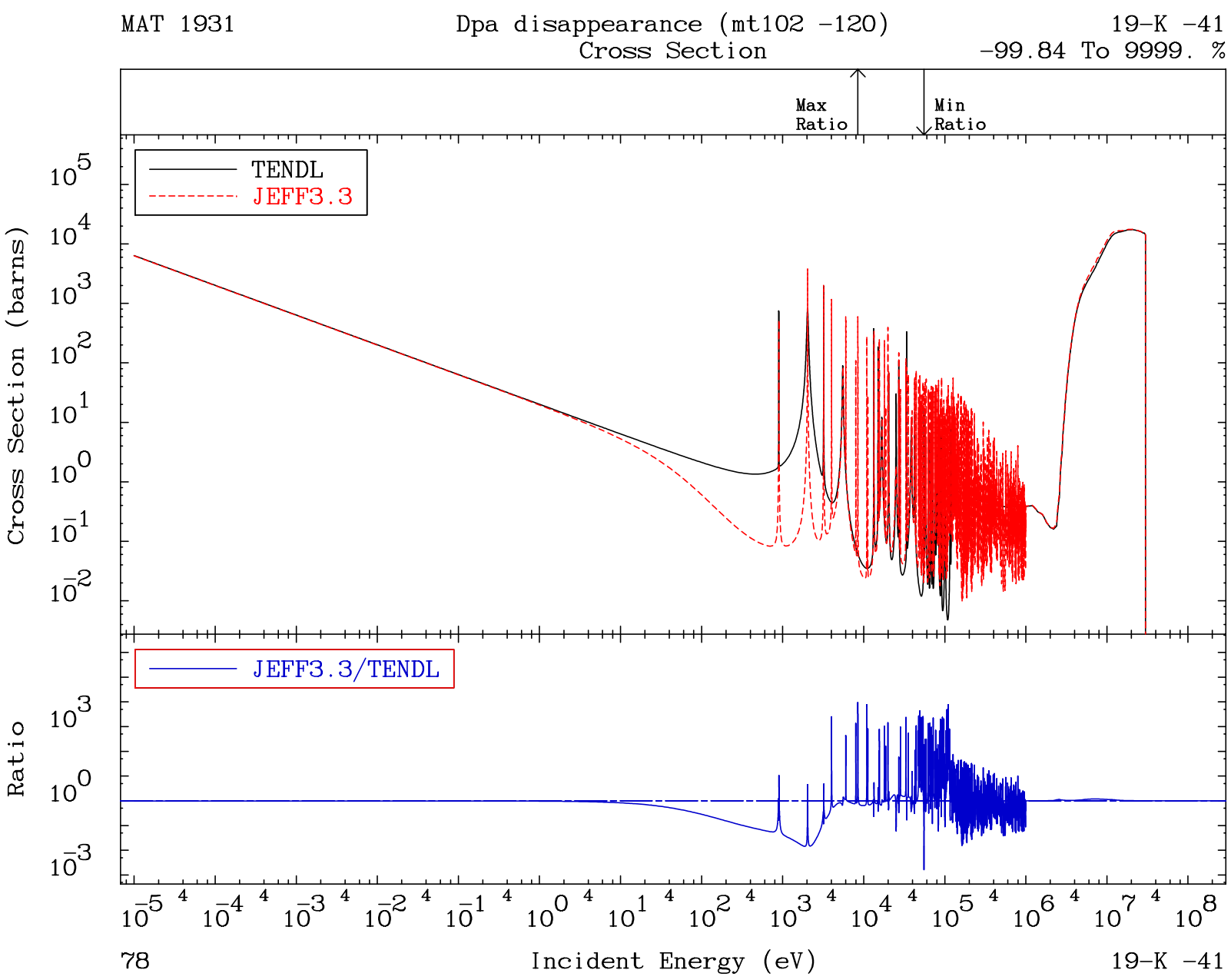

MAT 1931
Total photon (eV-barns)
Cross Section
19-K -41
-99.84 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
73
Incident Energy (eV)
19-K -41

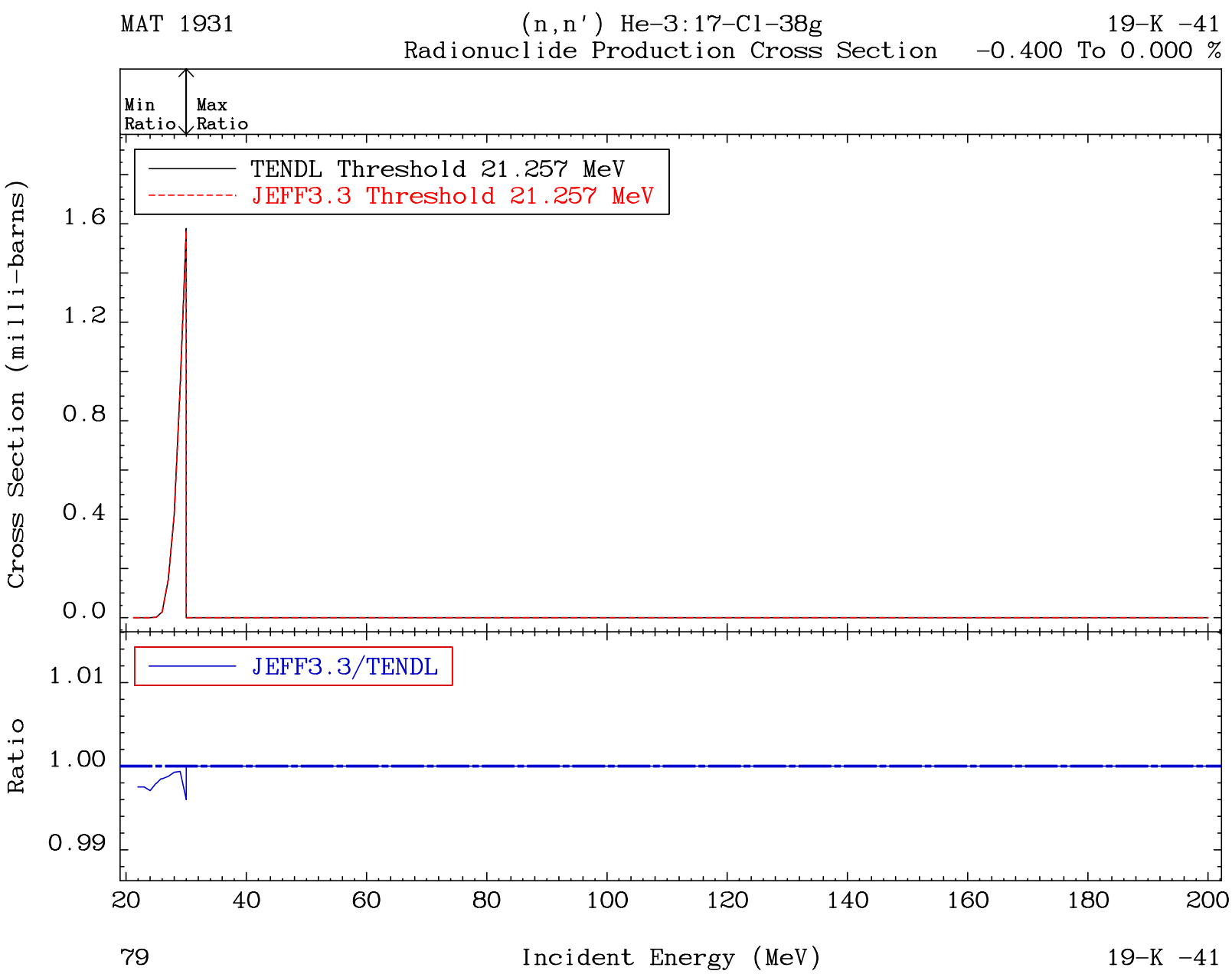

MAT 1931
Total kinematic kerma (high limit)
Cross Section
19-K -41
-99.88 To 3357. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
74
19-K -41

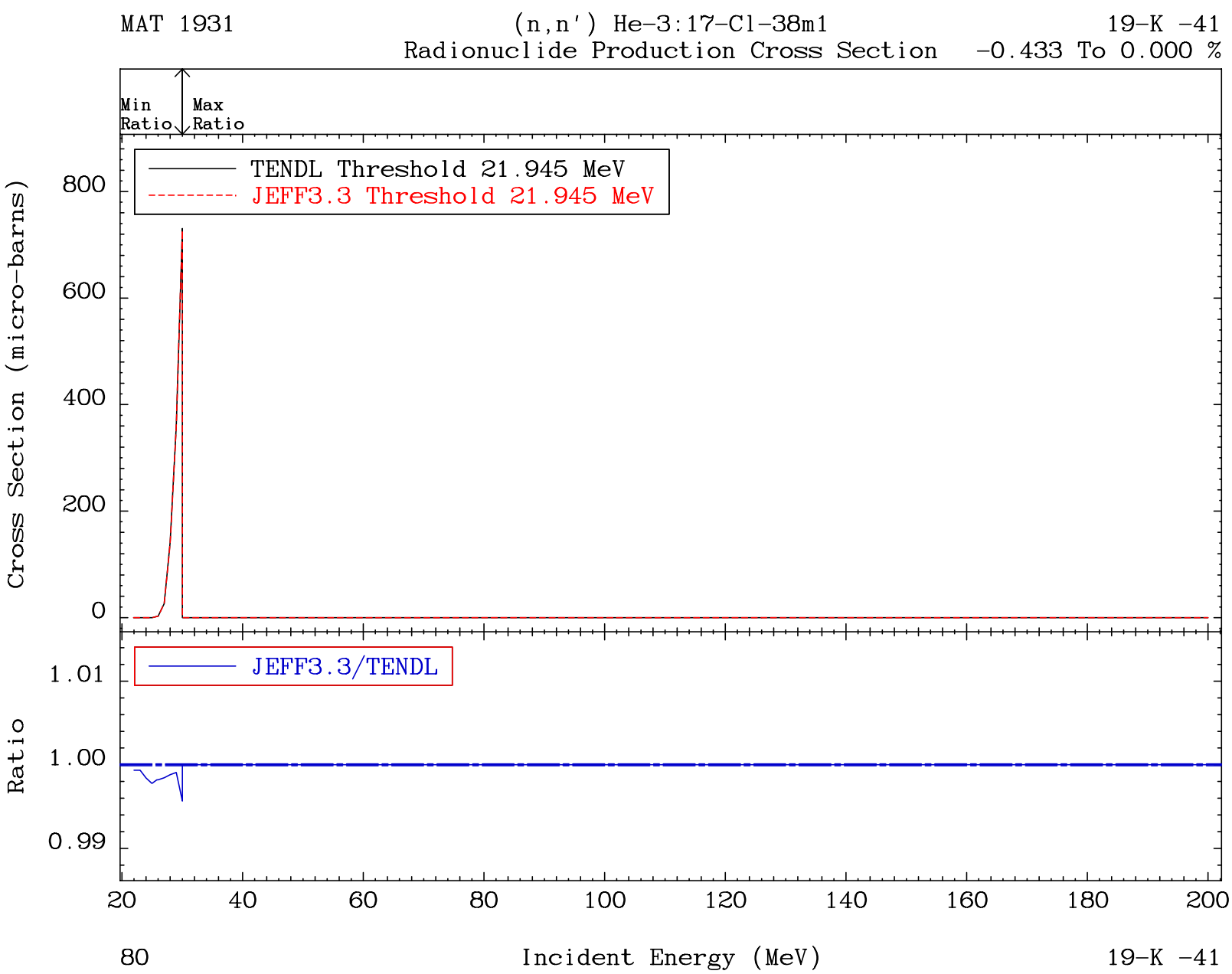

MAT 1931
Dpa total (eV-barns)
Cross Section
19-K -41
-99.88 To 3357. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
75
19-K -41

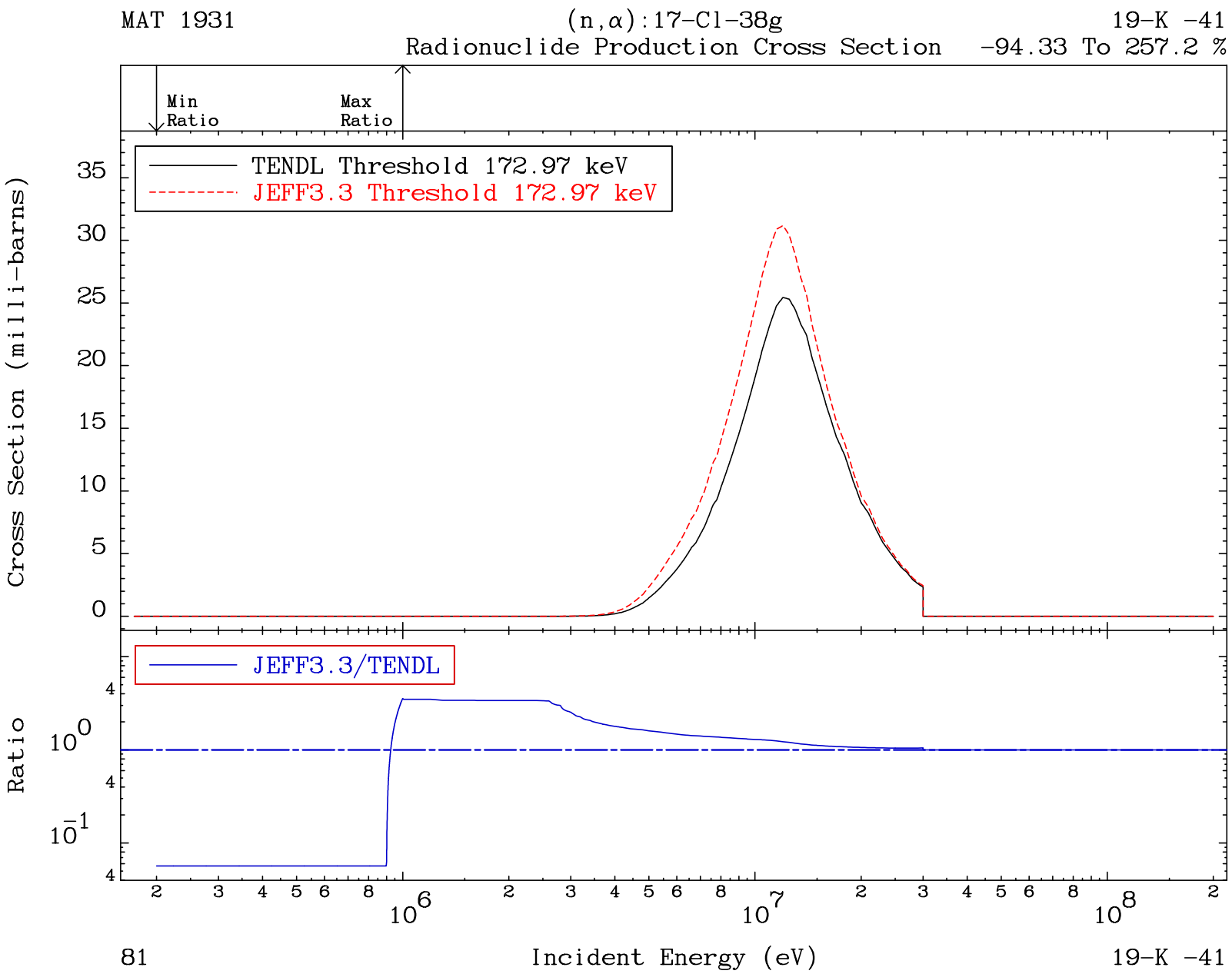

MAT 1931
Dpa elastic (mt2)
Cross Section
19-K -41
-99.92 To 3363. %
Min Ratio
Max Ratio
TENDL Threshold 275.00 eV
JEFF3.3 Threshold 265.63 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
76
19-K -41

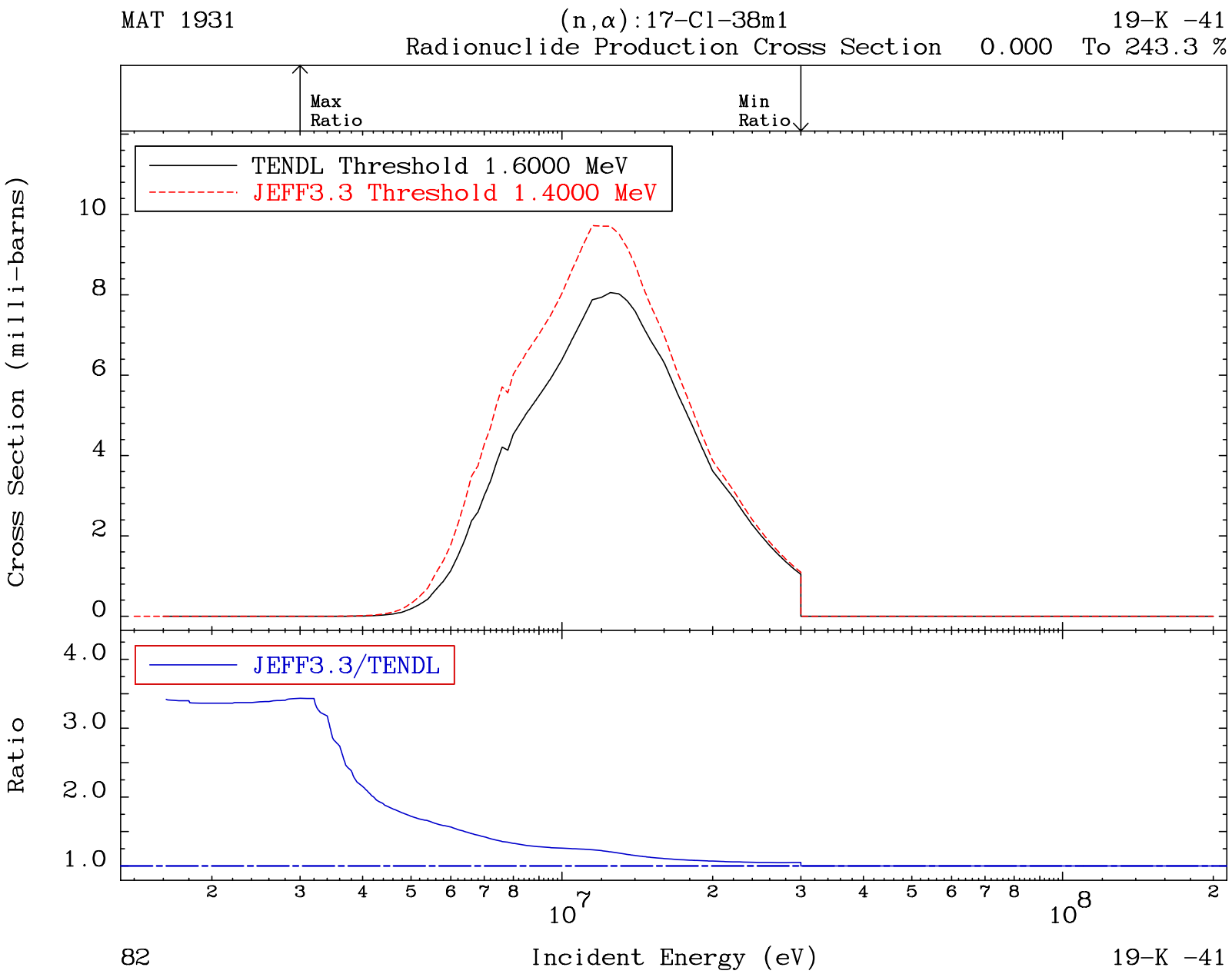

MAT 1931
Dpa inelastic (mt51-91)
Cross Section
19-K -41
-2.318 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.0046 MeV
JEFF3.3 Threshold 1.0046 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
77
19-K -41

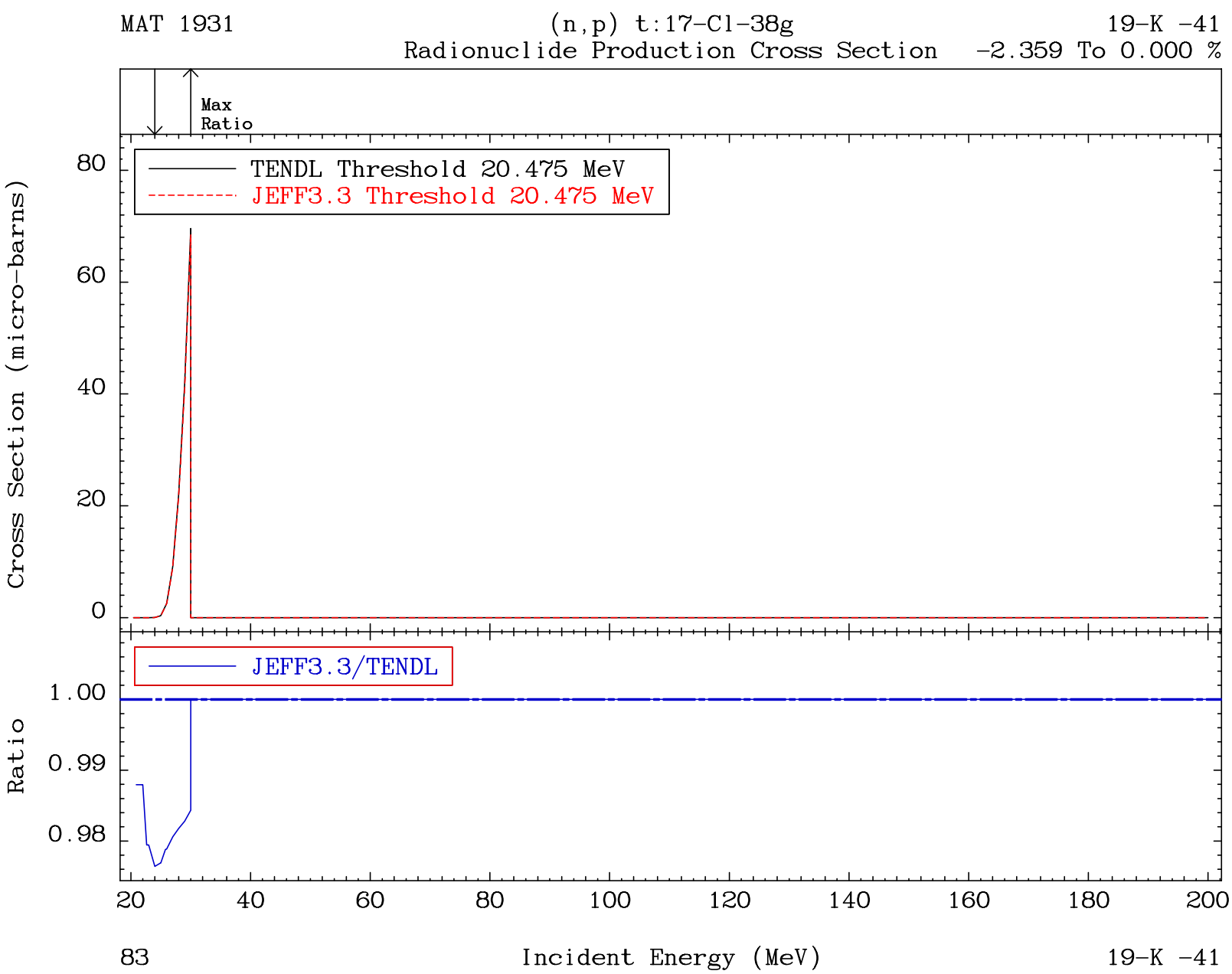

MAT 1931
Dpa disappearance (mt102 -120)
Cross Section
19-K -41
-99.84 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
78
19-K -41

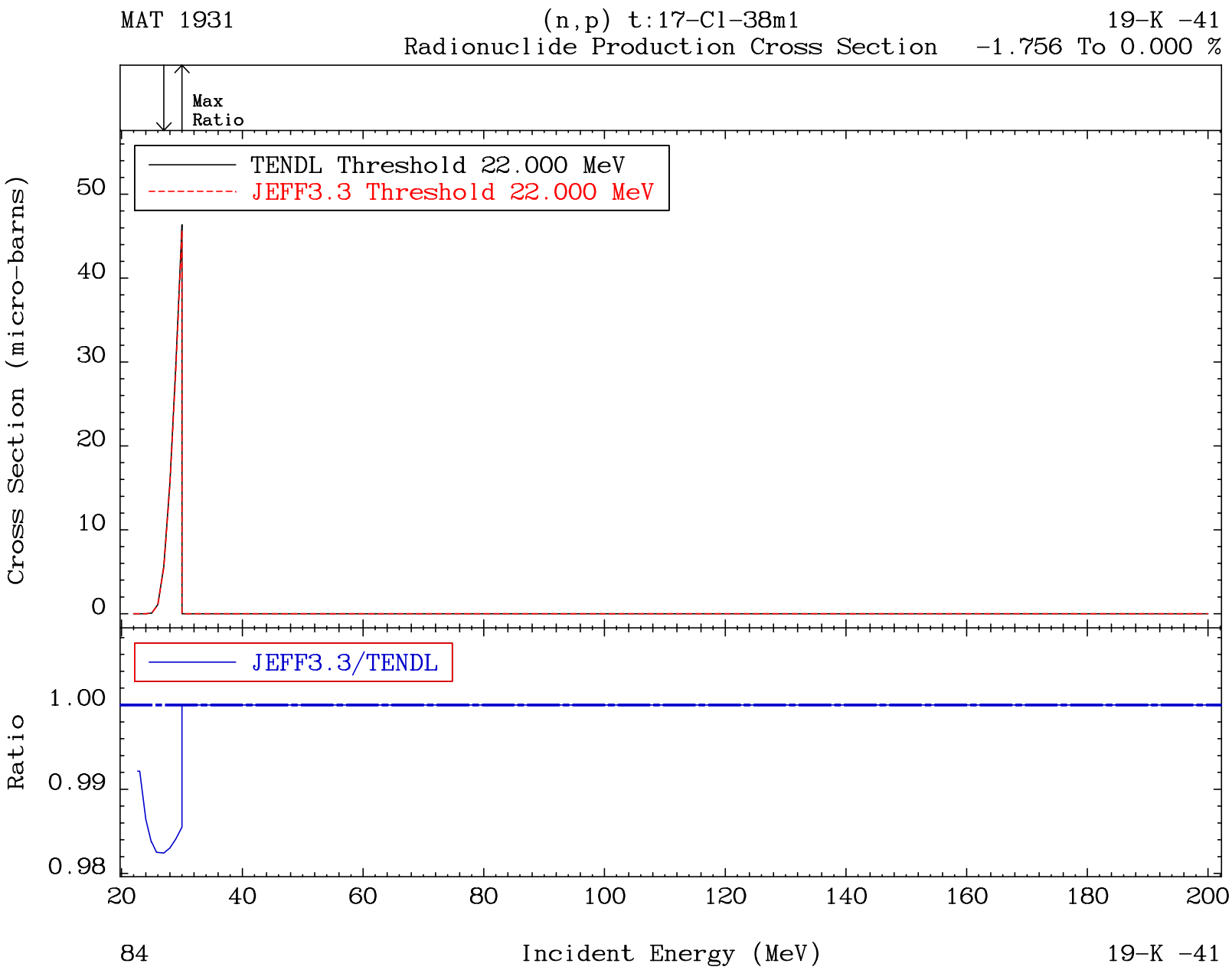

MAT 1931
(n,n') He-3:17-Cl-38g
19-K -41
Radionuclide Production Cross Section
-0.400 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 21.257 MeV
JEFF3.3 Threshold 21.257 MeV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
79
Incident Energy (MeV)
19-K -41


MAT 1931
(n,n') He-3:17-Cl-38m1
19-K -41
Radionuclide Production Cross Section
-0.433 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 21.945 MeV
JEFF3.3 Threshold 21.945 MeV
Cross Section (micro-barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
80
Incident Energy (MeV)
19-K -41


MAT 1931
(n,α):17-Cl-38g
19-K -41
Radionuclide Production Cross Section
-94.33 To 257.2 %
Min Ratio
Max Ratio
TENDL Threshold 172.97 keV
JEFF3.3 Threshold 172.97 keV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
81
19-K -41


MAT 1931
(n,α):17-Cl-38m1
19-K -41
Radionuclide Production Cross Section 0.000 To 243.3 %
Max Ratio
Min Ratio
TENDL Threshold 1.6000 MeV
JEFF3.3 Threshold 1.4000 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
82
19-K -41


MAT 1931
(n,p) t:17-Cl-38g
19-K -41
Radionuclide Production Cross Section
-2.359 To 0.000 %
Max
Ratio
TENDL Threshold 20.475 MeV
JEFF3.3 Threshold 20.475 MeV
Cross Section (micro-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
20
40
60
80
100
120
140
160
180
200
83
Incident Energy (MeV)
19-K -41


MAT 1931
(n,p) t:17-Cl-38m1
19-K -41
Radionuclide Production Cross Section
-1.756 To 0.000 %
Max
Ratio
TENDL Threshold 22.000 MeV
JEFF3.3 Threshold 22.000 MeV
Cross Section (micro-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
20
40
60
80
100
120
140
160
180
200
84
Incident Energy (MeV)
19-K -41