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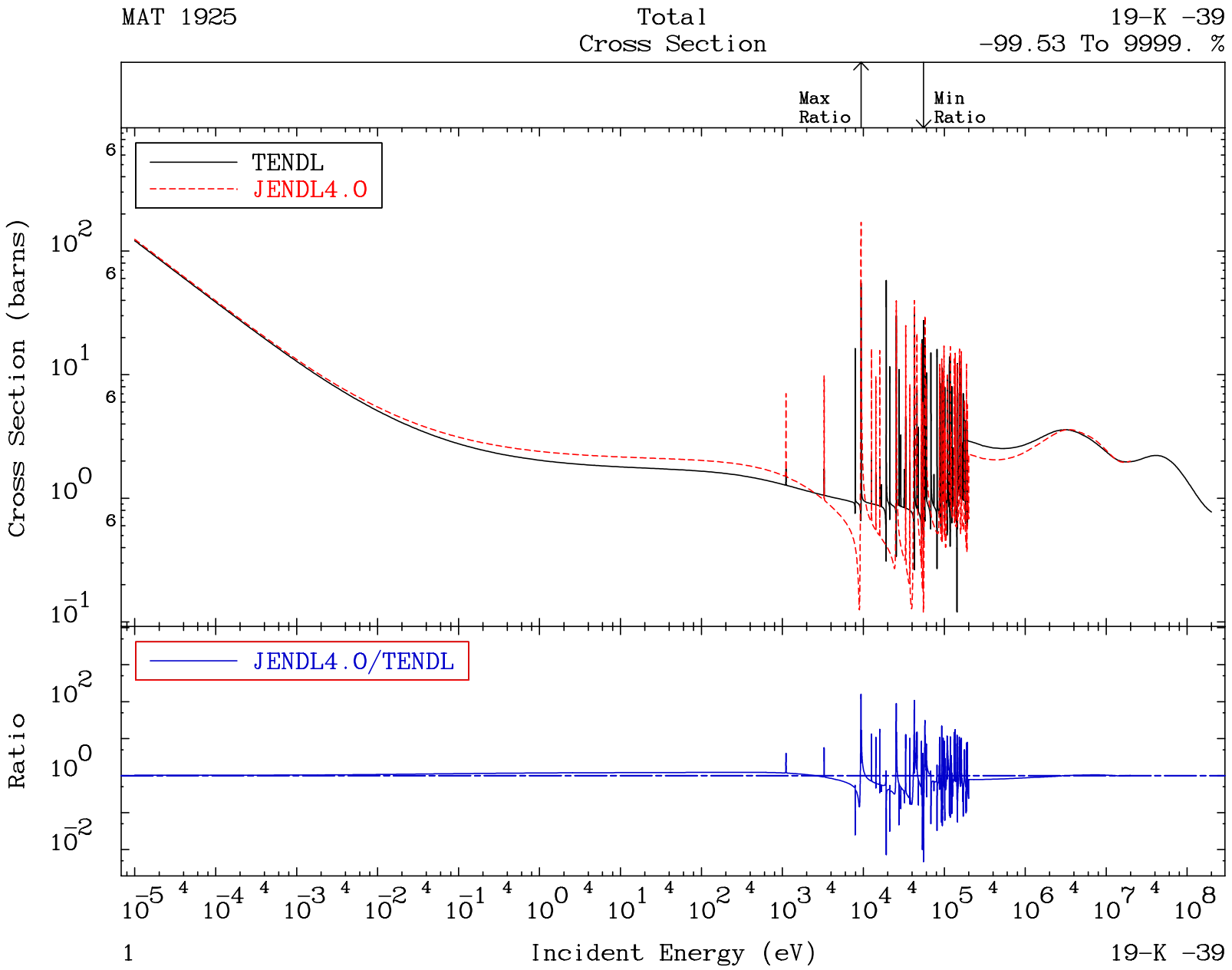
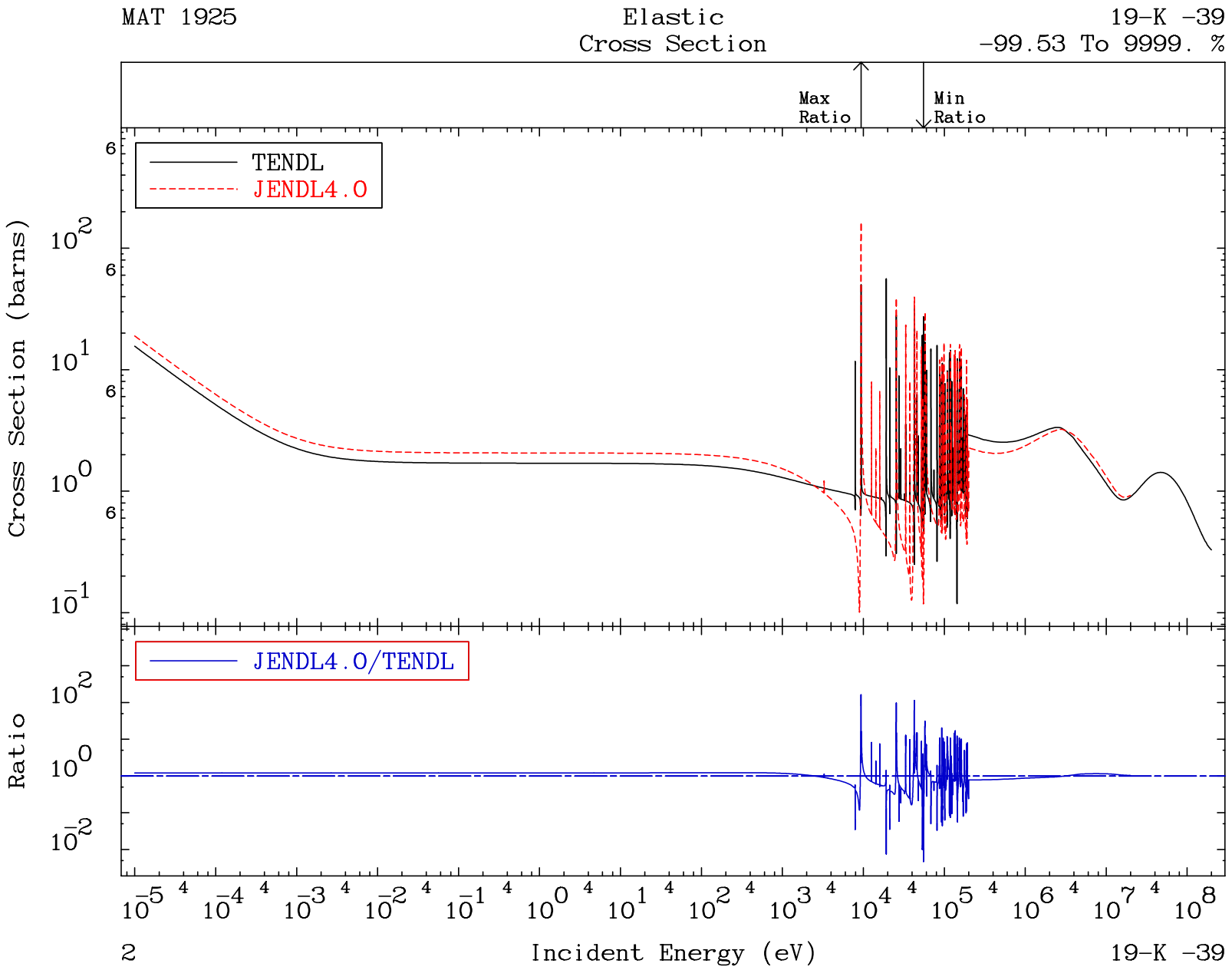
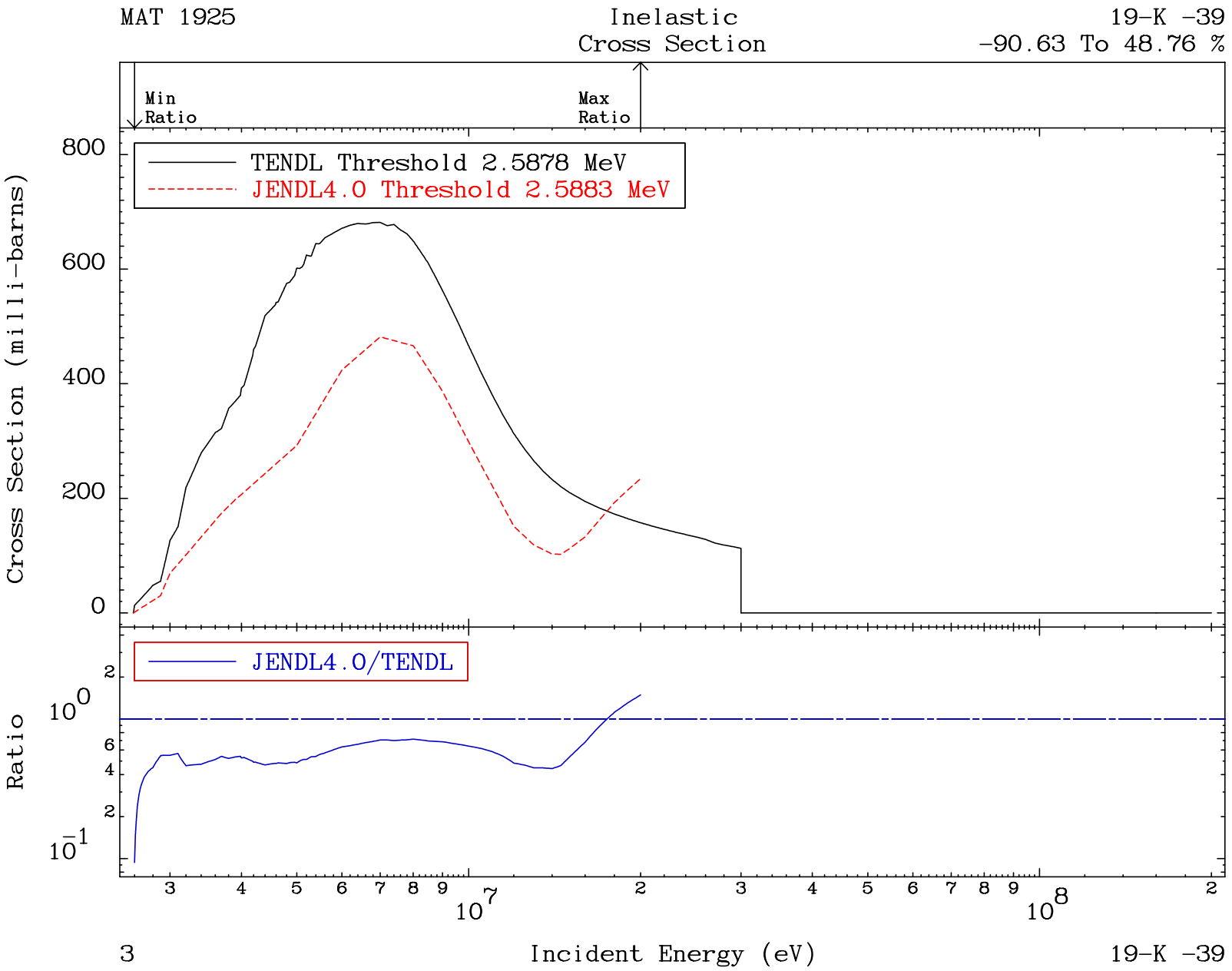
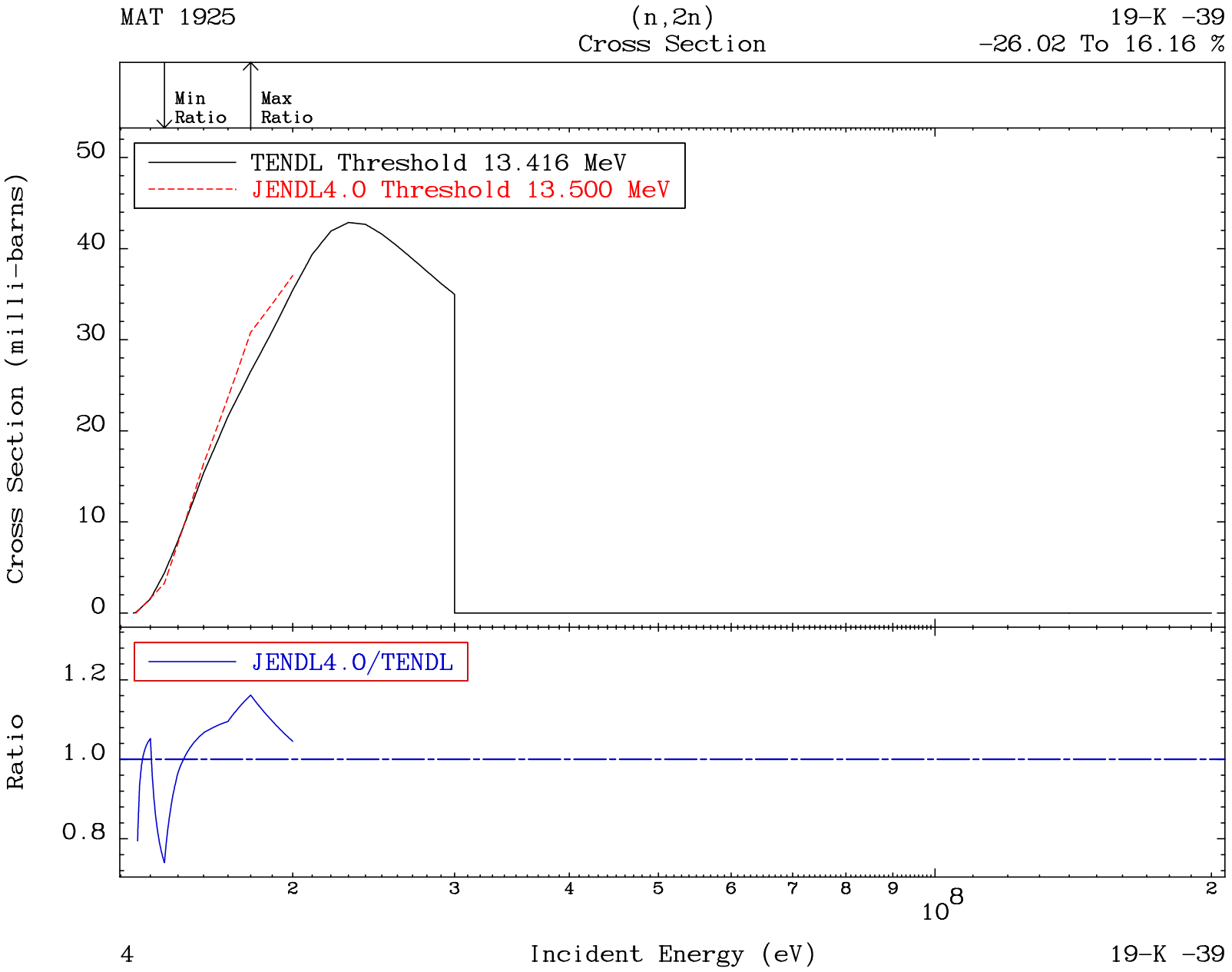
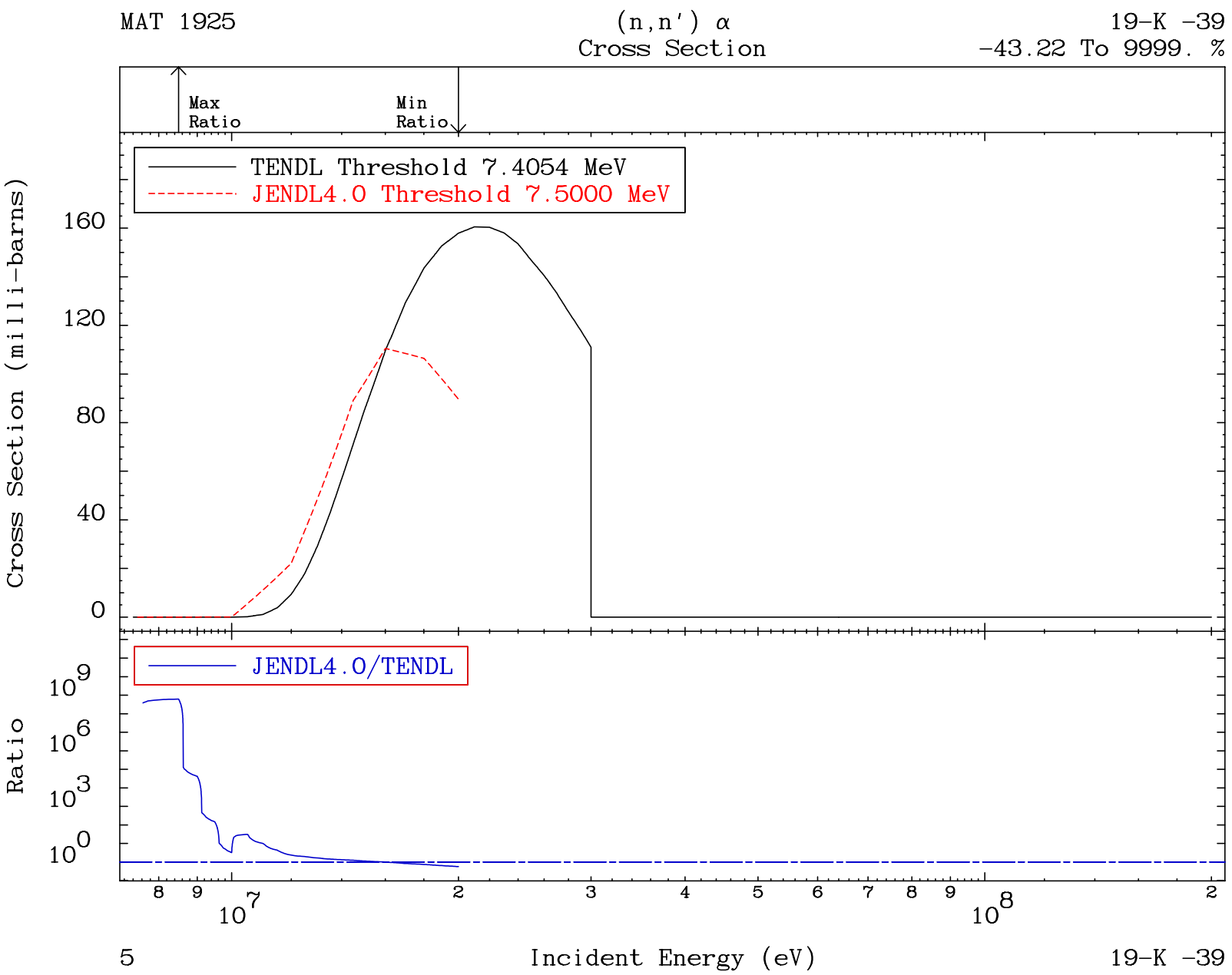
Press Mouse Button to Start

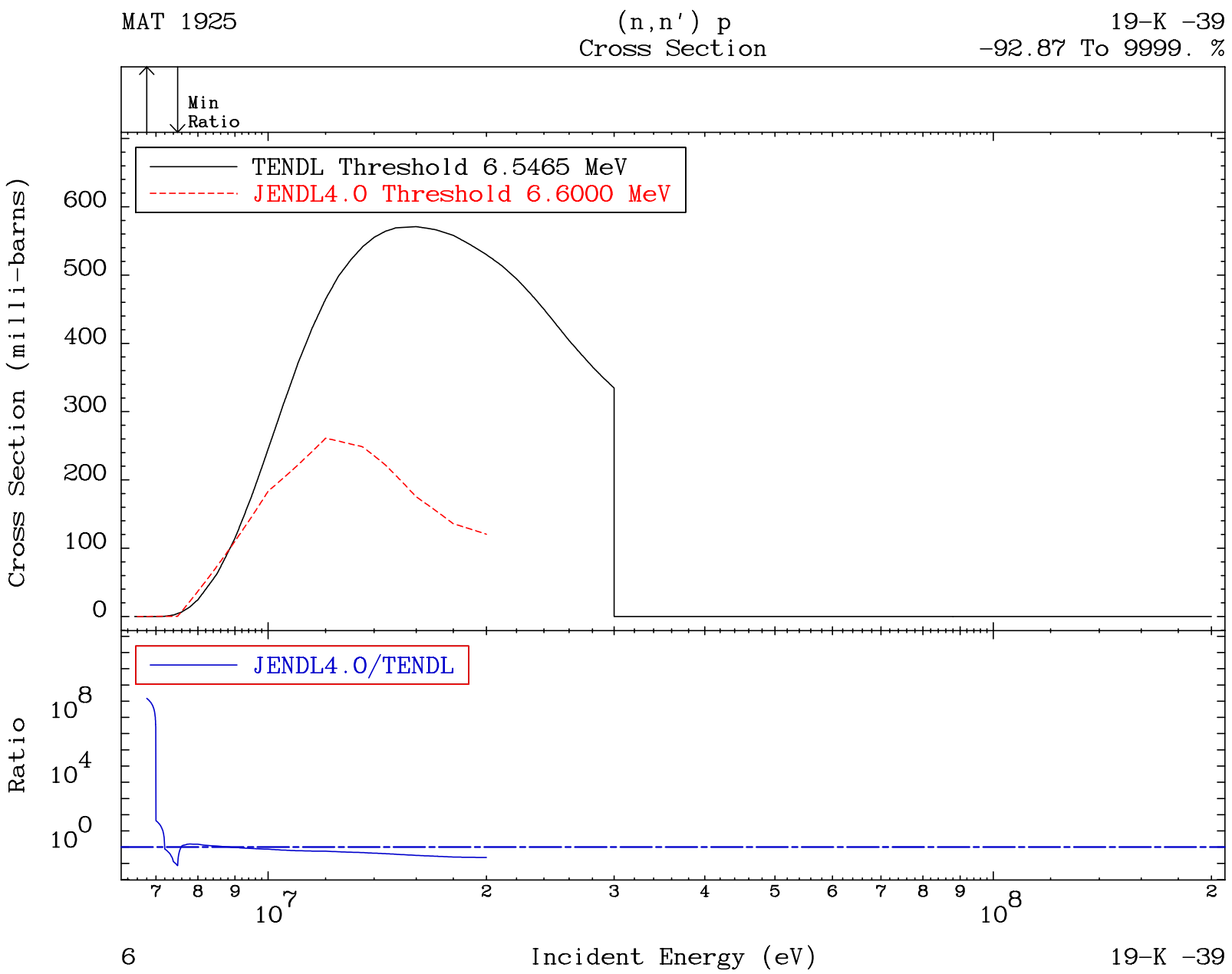

MAT 1925
Total
Cross Section
19-K -39
-99.53 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
1
19-K -39

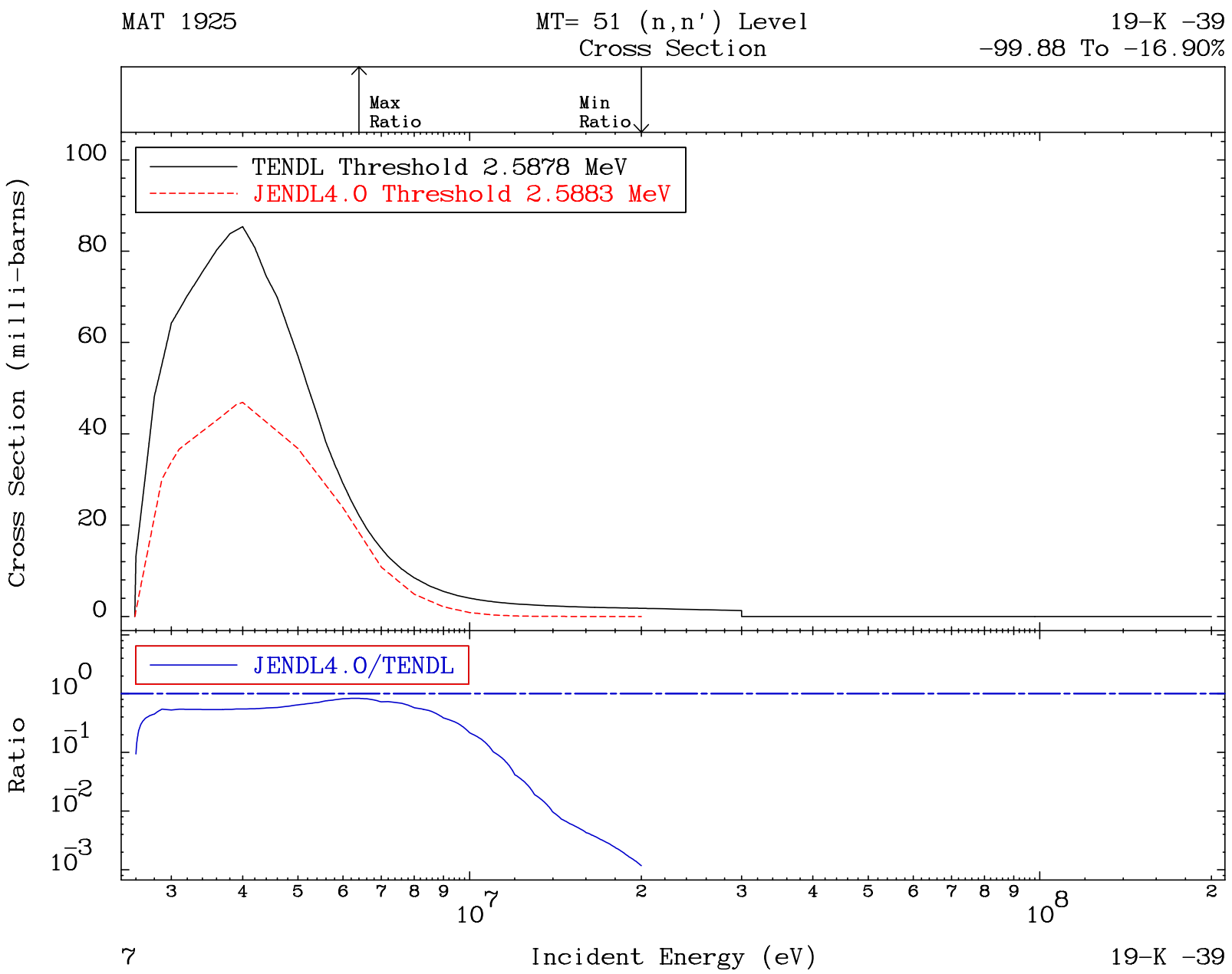

MAT 1925
Elastic
Cross Section
19-K -39
-99.53 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
19-K -39

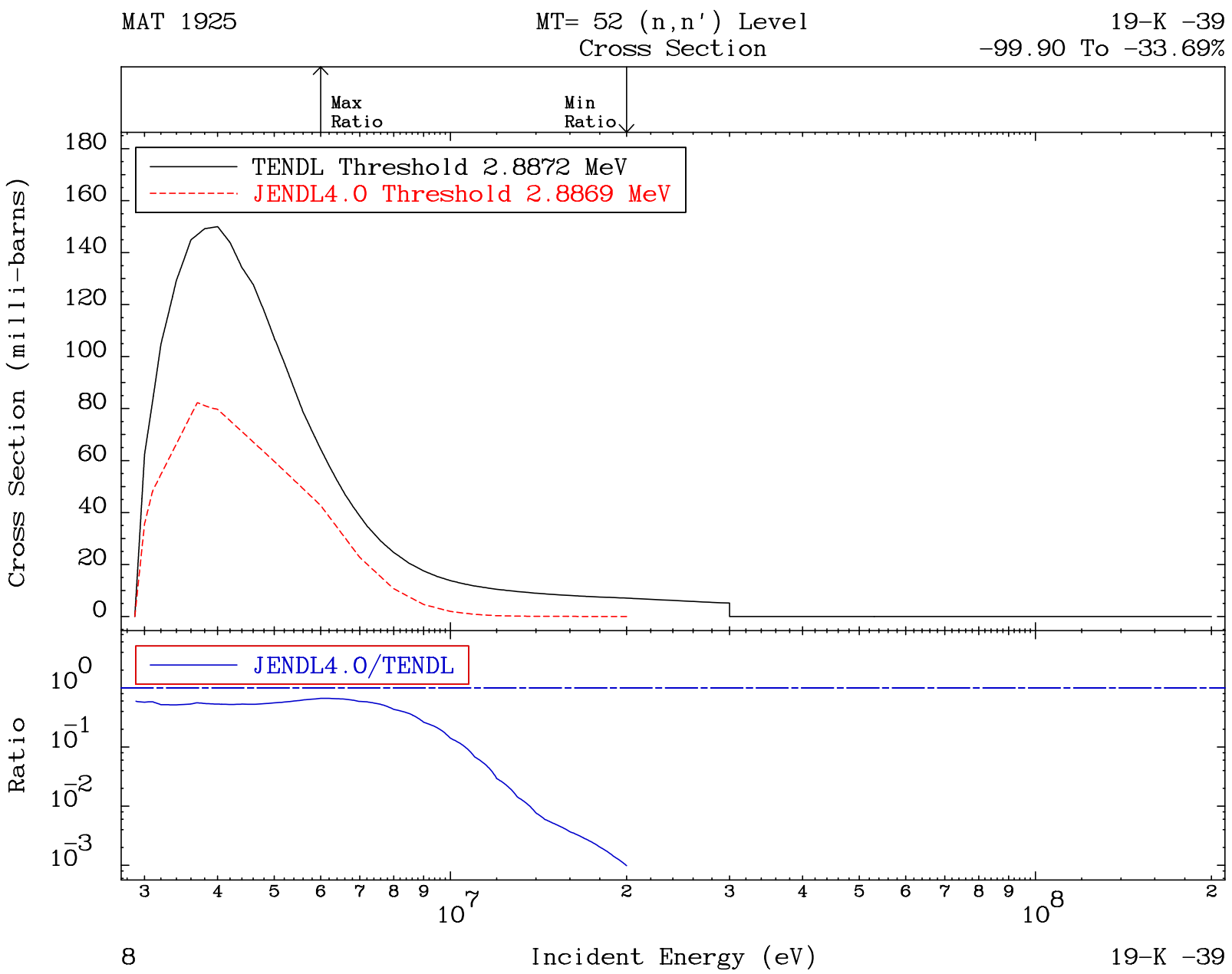

MAT 1925
Inelastic
Cross Section
19-K -39
-90.63 To 48.76 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5878 MeV
JENDL4.0 Threshold 2.5883 MeV
Cross Section (milli-barns)
800
600
400
200
0
JENDL4.0/TENDL
Ratio
$10^0$
$10^{-1}$
2
6
4
2
3 4 5 6 7 8 9 $10^7$ 2 3 4 5 6 7 8 9 $10^8$ 2
3
Incident Energy (eV)
19-K -39

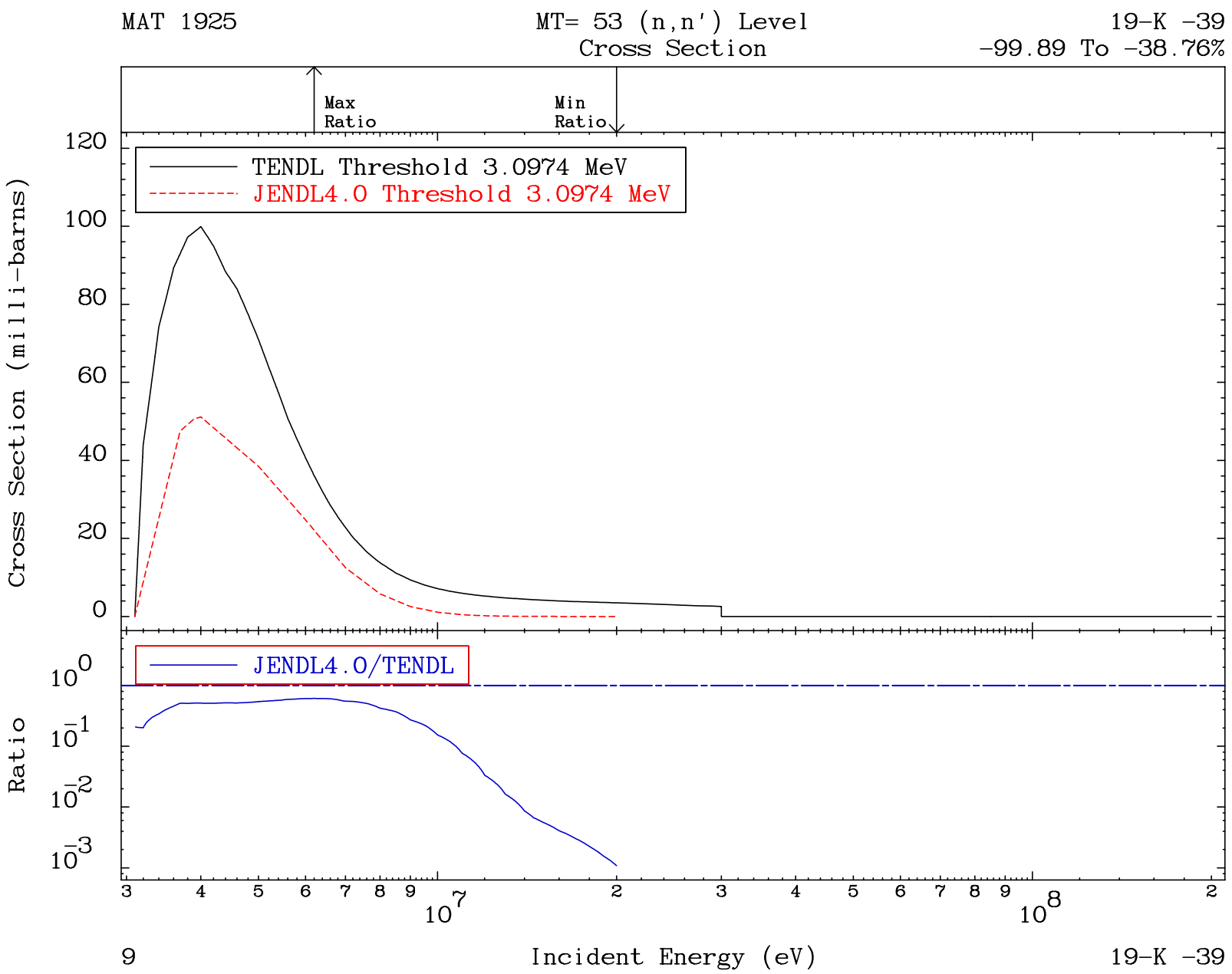

MAT 1925
(n,2n)
Cross Section
19-K -39
-26.02 To 16.16 %
Min Ratio
Max Ratio
TENDL Threshold 13.416 MeV
JENDL4.0 Threshold 13.500 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.2
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
19-K -39

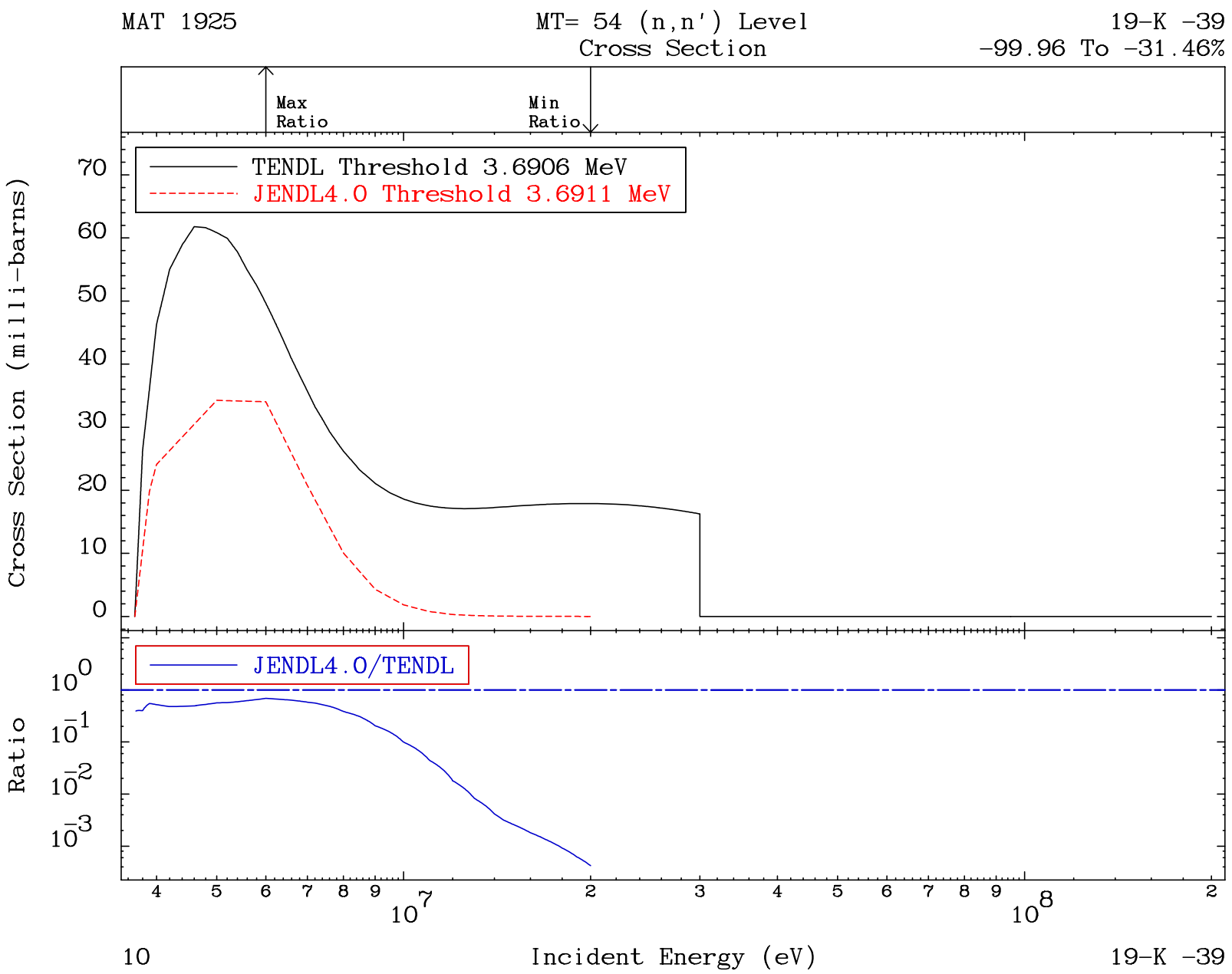

MAT 1925
(n,n') α
Cross Section
19-K -39
-43.22 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.4054 MeV
JENDL4.0 Threshold 7.5000 MeV
Cross Section (milli-barns)
160
120
80
40
0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
19-K -39

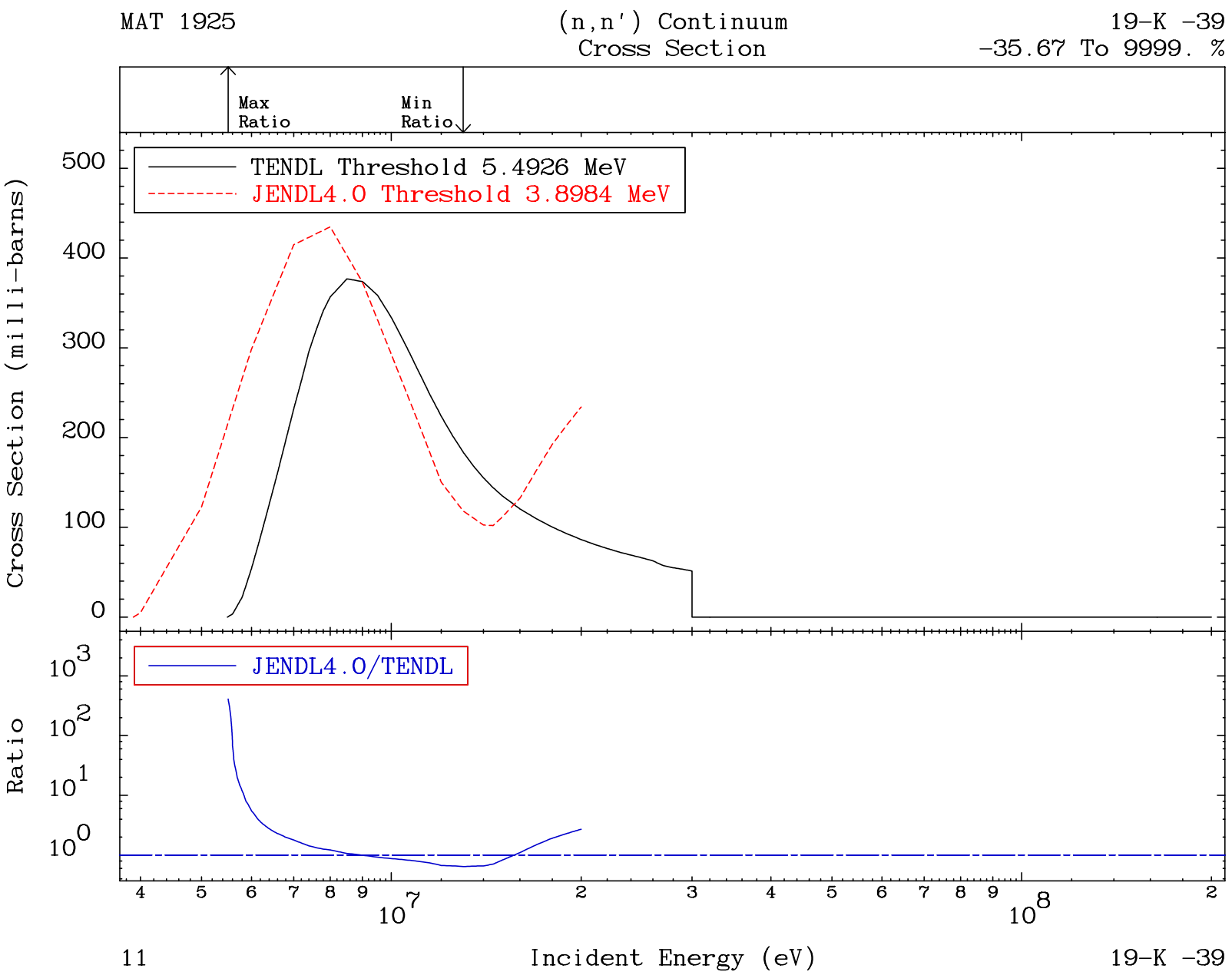

MAT 1925
(n,n') p
Cross Section
19-K -39
-92.87 To 9999. %
Min
Ratio
TENDL Threshold 6.5465 MeV
JENDL4.0 Threshold 6.6000 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^8
10^4
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
19-K -39

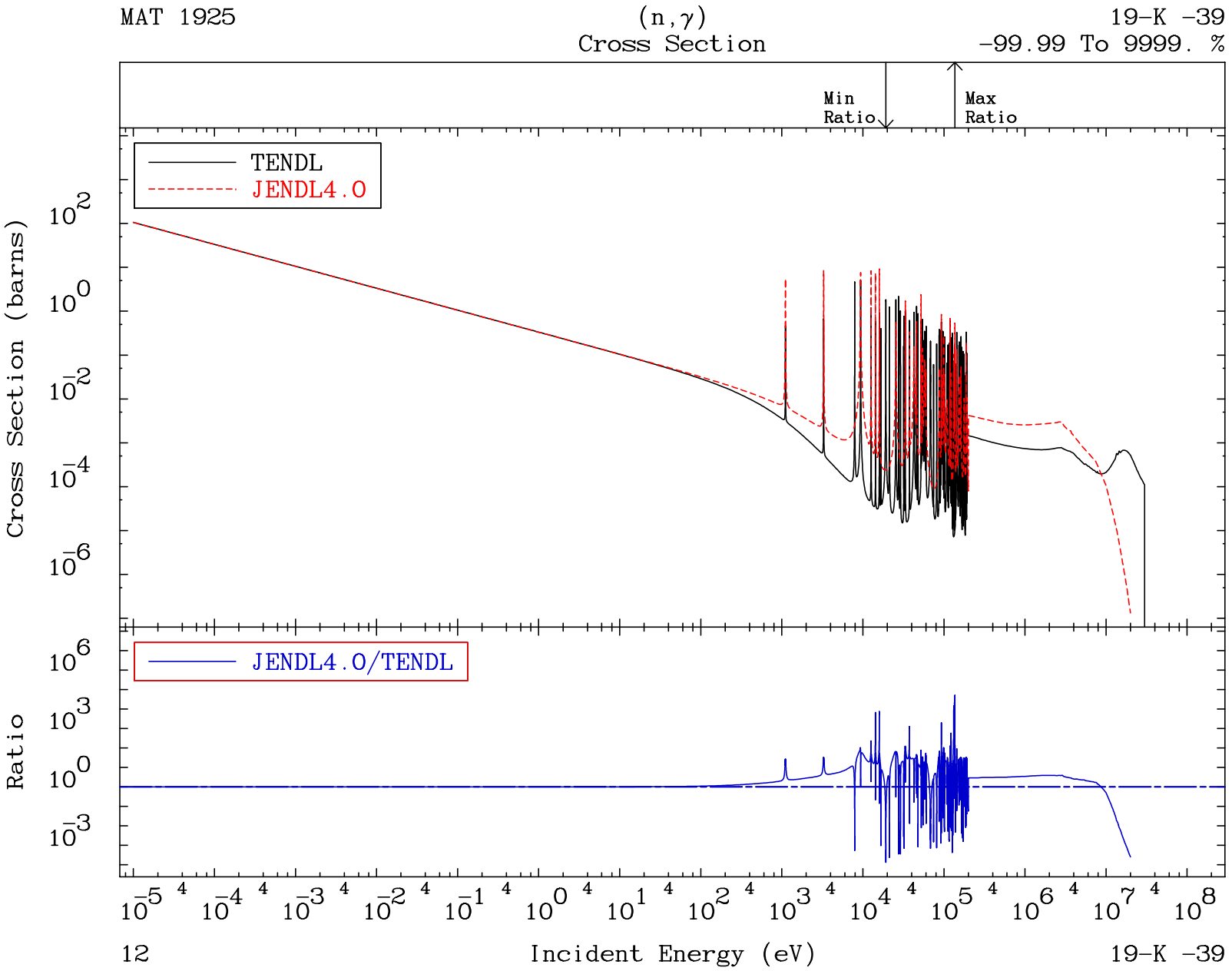

MAT 1925
MT= 51 (n,n') Level
Cross Section
19-K -39
-99.88 To -16.90%
Max
Ratio
Min
Ratio
TENDL Threshold 2.5878 MeV
JENDL4.0 Threshold 2.5883 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
7
Incident Energy (eV)
19-K -39

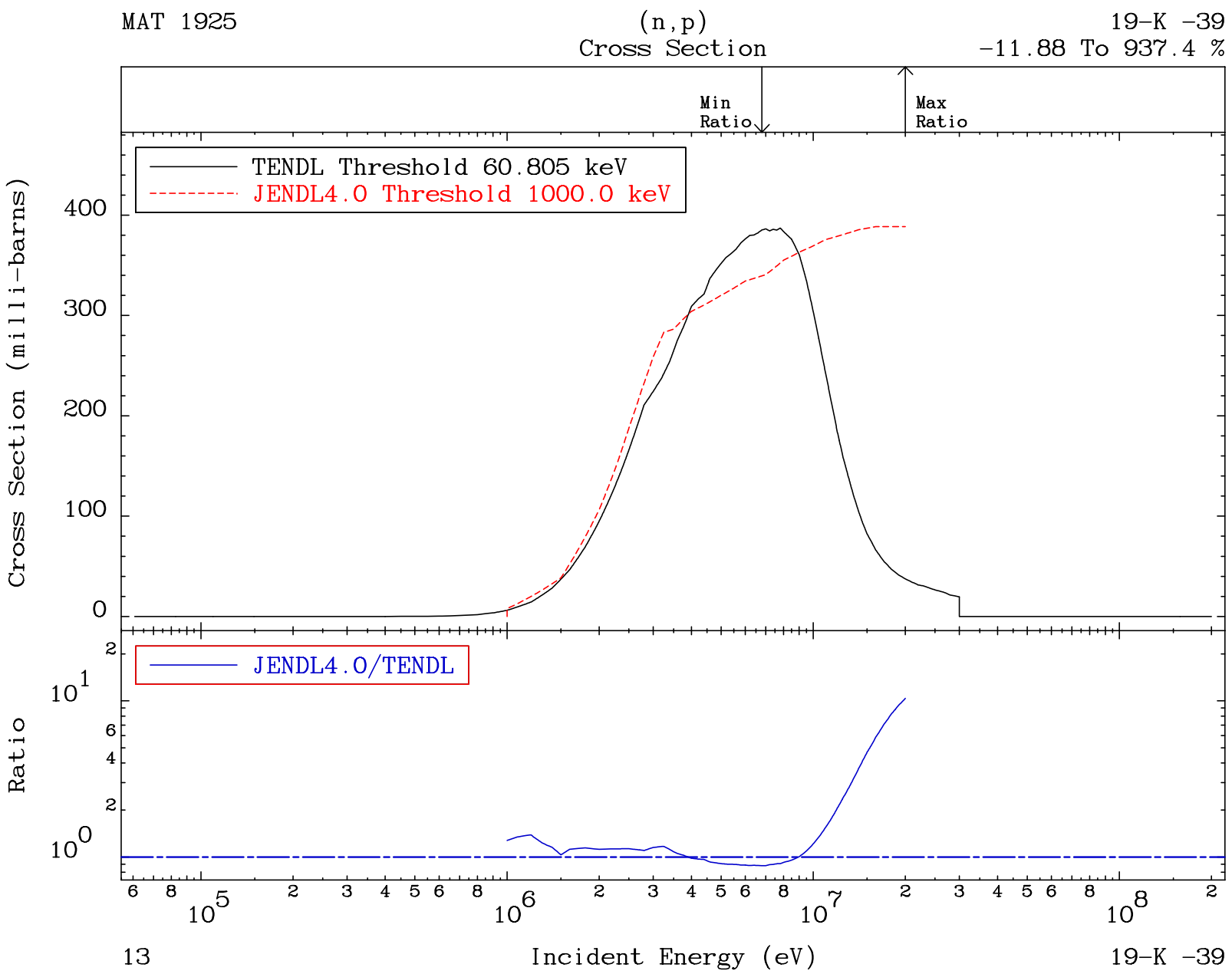

MAT 1925
MT= 52 (n,n') Level
Cross Section
19-K -39
-99.90 To -33.69%
Max Ratio
Min Ratio
TENDL Threshold 2.8872 MeV
JENDL4.0 Threshold 2.8869 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
8
19-K -39

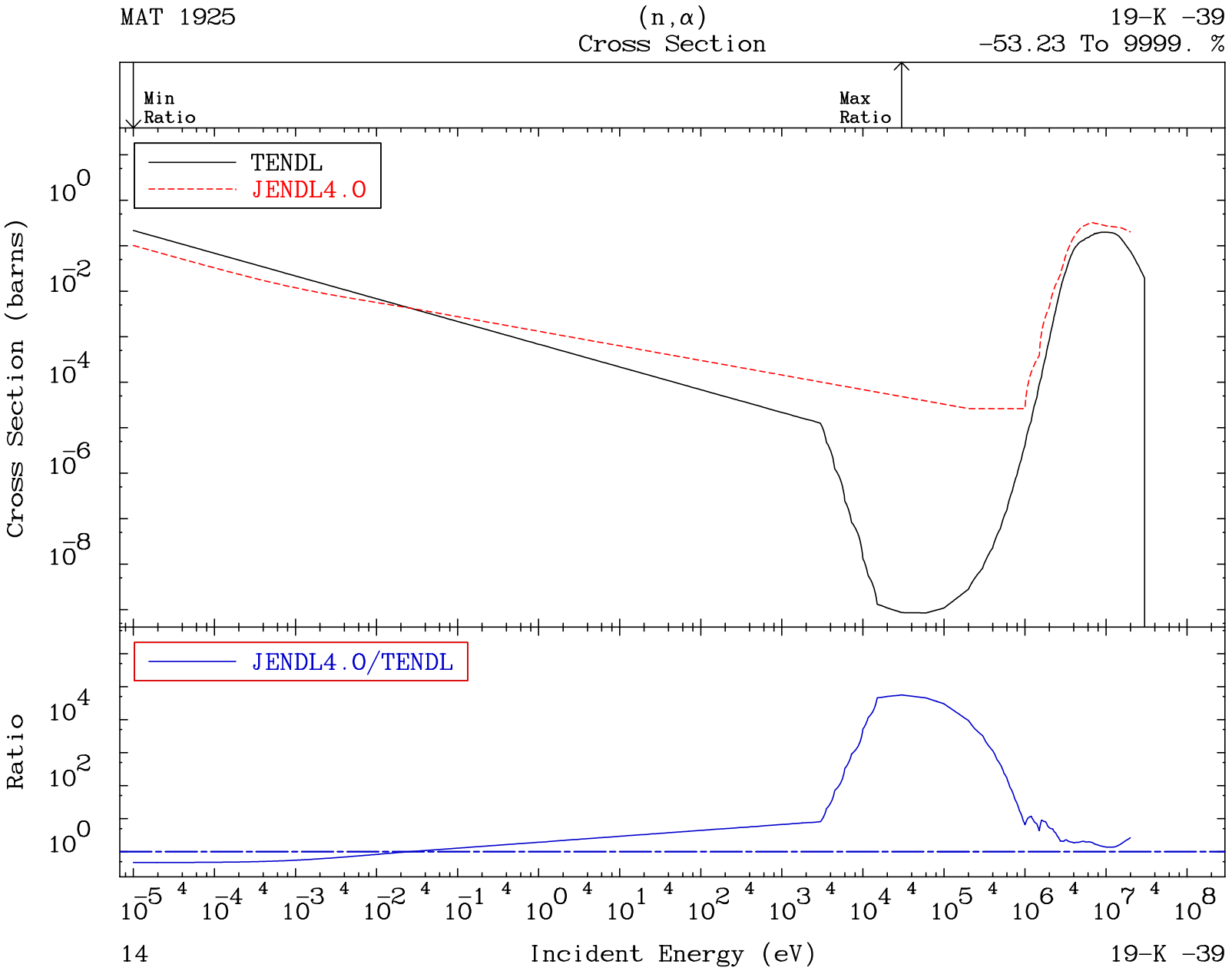

MAT 1925
MT= 53 (n,n') Level
Cross Section
19-K -39
-99.89 To -38.76%
Max Ratio
Min Ratio
TENDL Threshold 3.0974 MeV
JENDL4.0 Threshold 3.0974 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
19-K -39

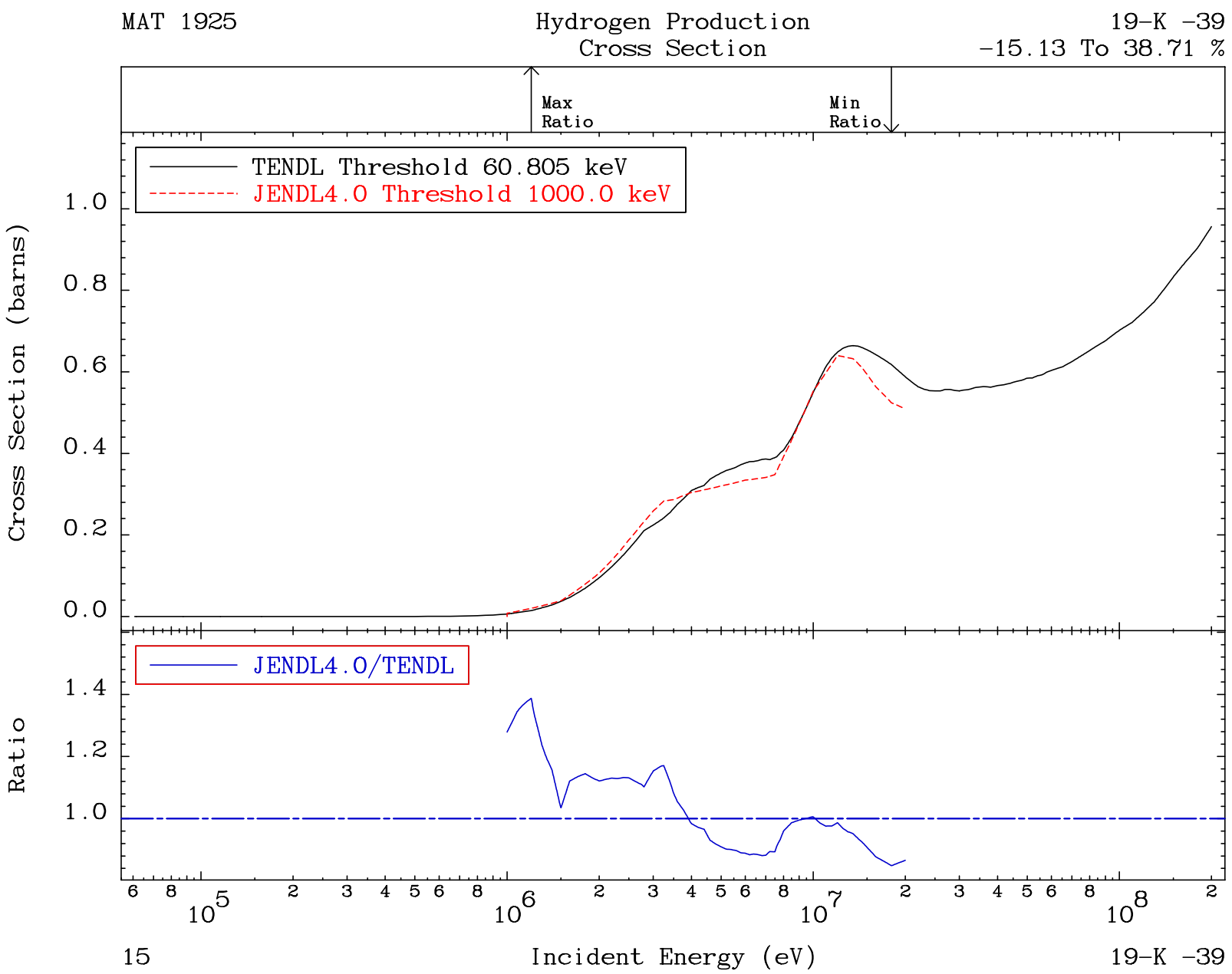

MAT 1925
MT= 54 (n,n') Level
Cross Section
19-K -39
-99.96 To -31.46%
Max Ratio
Min Ratio
TENDL Threshold 3.6906 MeV
JENDL4.0 Threshold 3.6911 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
19-K -39

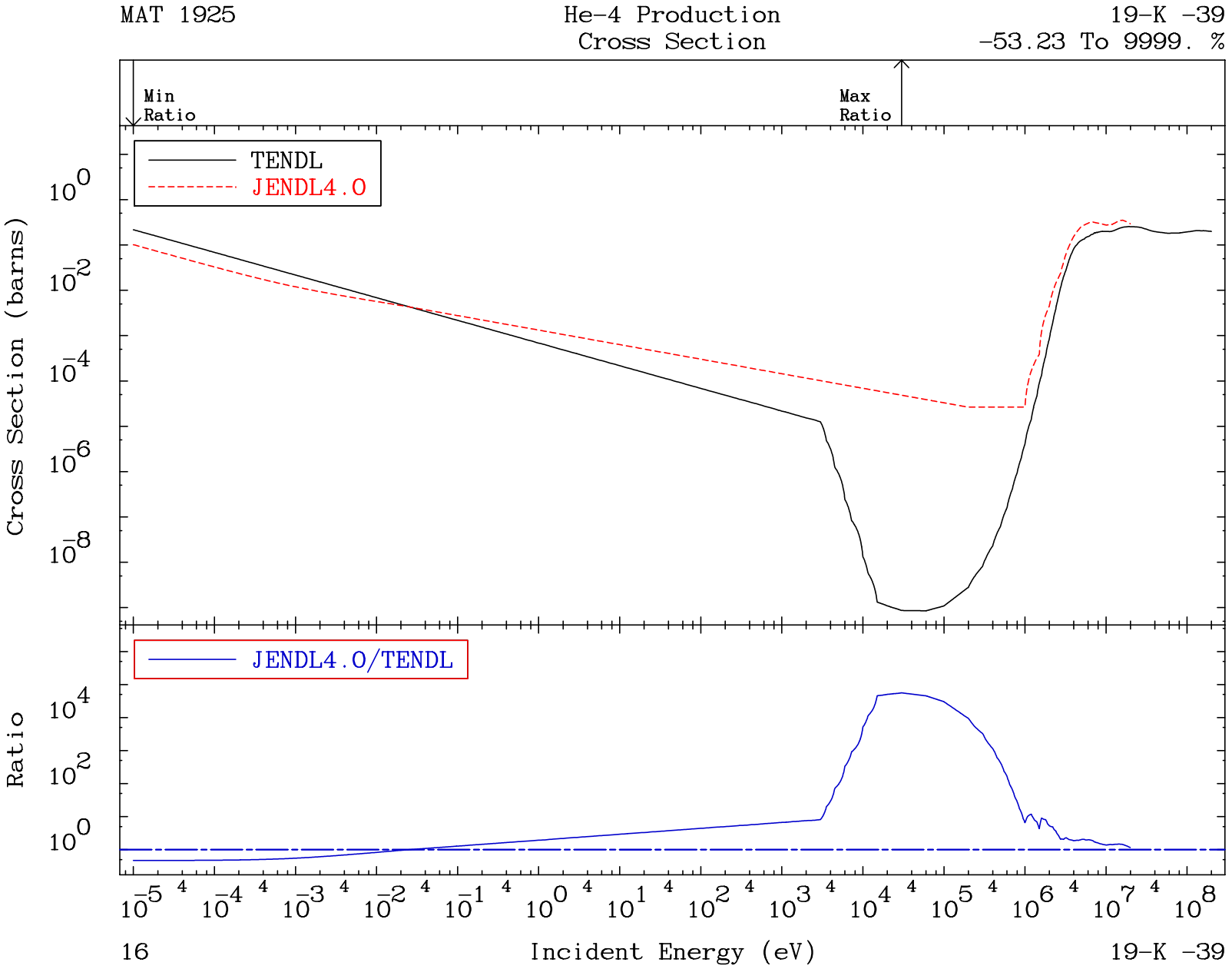

MAT 1925
(n,n') Continuum
Cross Section
19-K -39
-35.67 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.4926 MeV
JENDL4.0 Threshold 3.8984 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^3
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
19-K -39

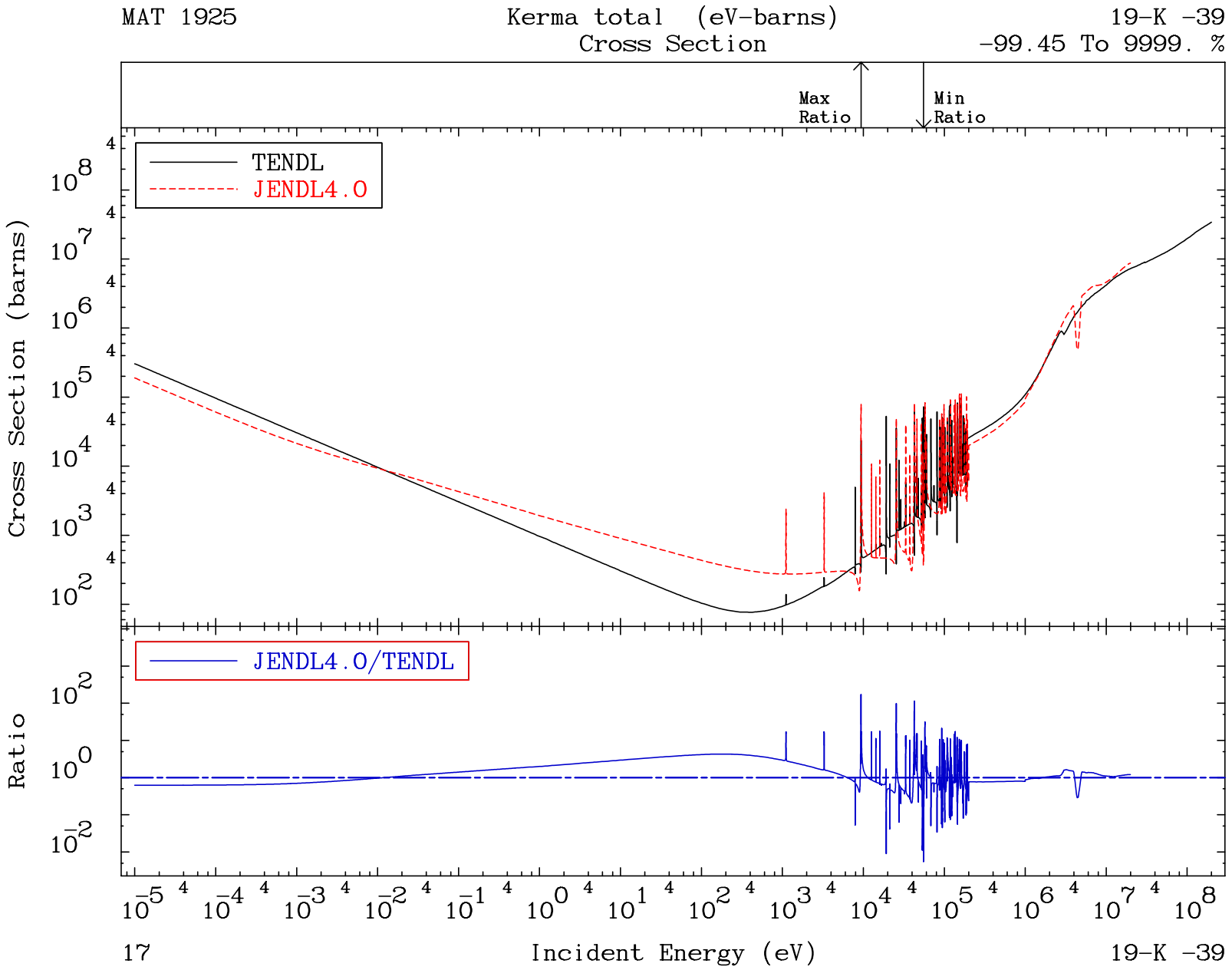

MAT 1925
(n,γ)
Cross Section
19-K -39
-99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
12
19-K -39

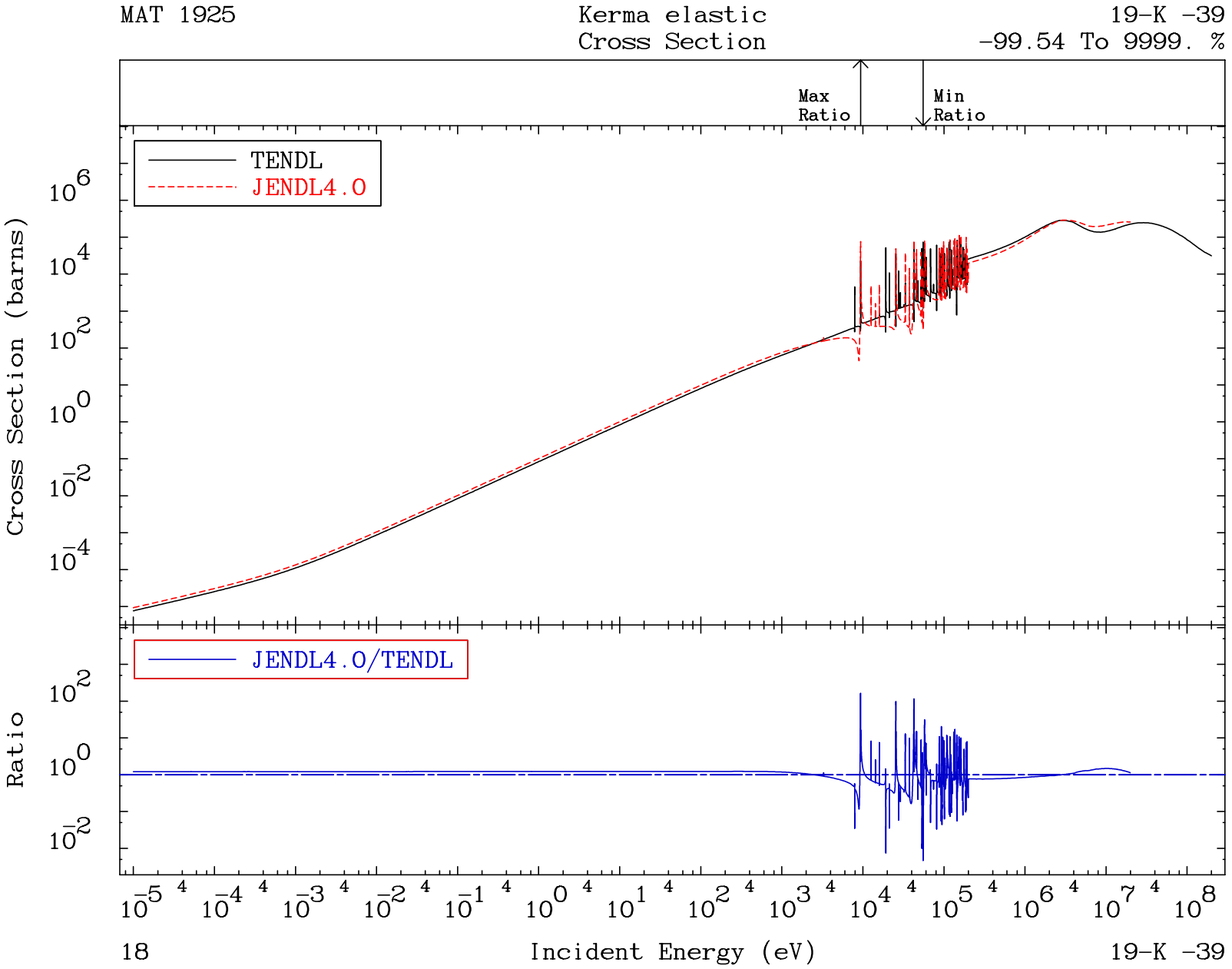

MAT 1925
(n,p)
Cross Section
19-K -39
-11.88 To 937.4 %
Min Ratio
Max Ratio
TENDL Threshold 60.805 keV
JENDL4.0 Threshold 1000.0 keV
Cross Section (milli-barns)
400
300
200
100
0
JENDL4.0/TENDL
Ratio
$10^1$
$10^0$
$10^5$
$10^6$
$10^7$
$10^8$
Incident Energy (eV)
13
19-K -39

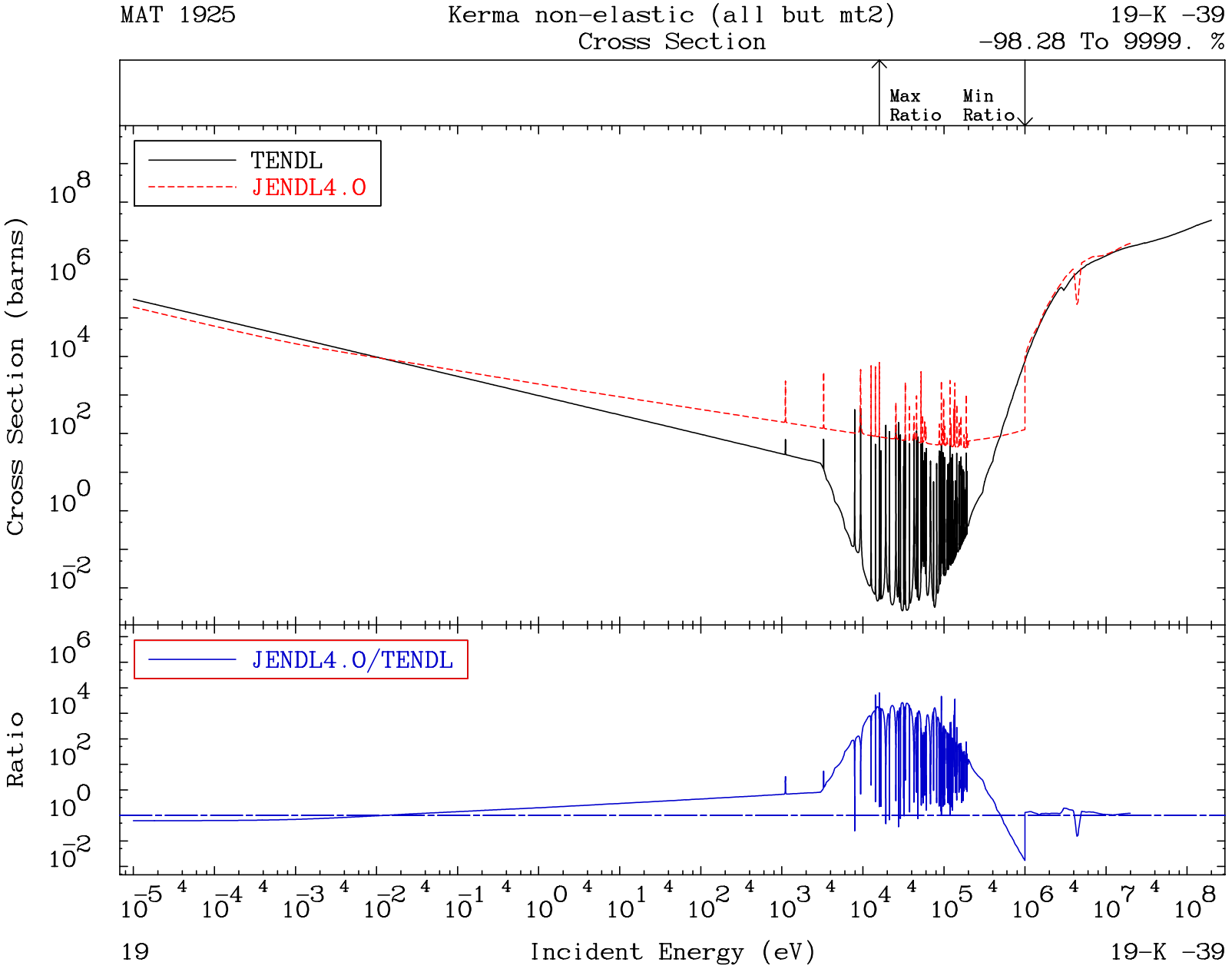

MAT 1925
(n,α)
Cross Section
19-K -39
-53.23 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
14
19-K -39

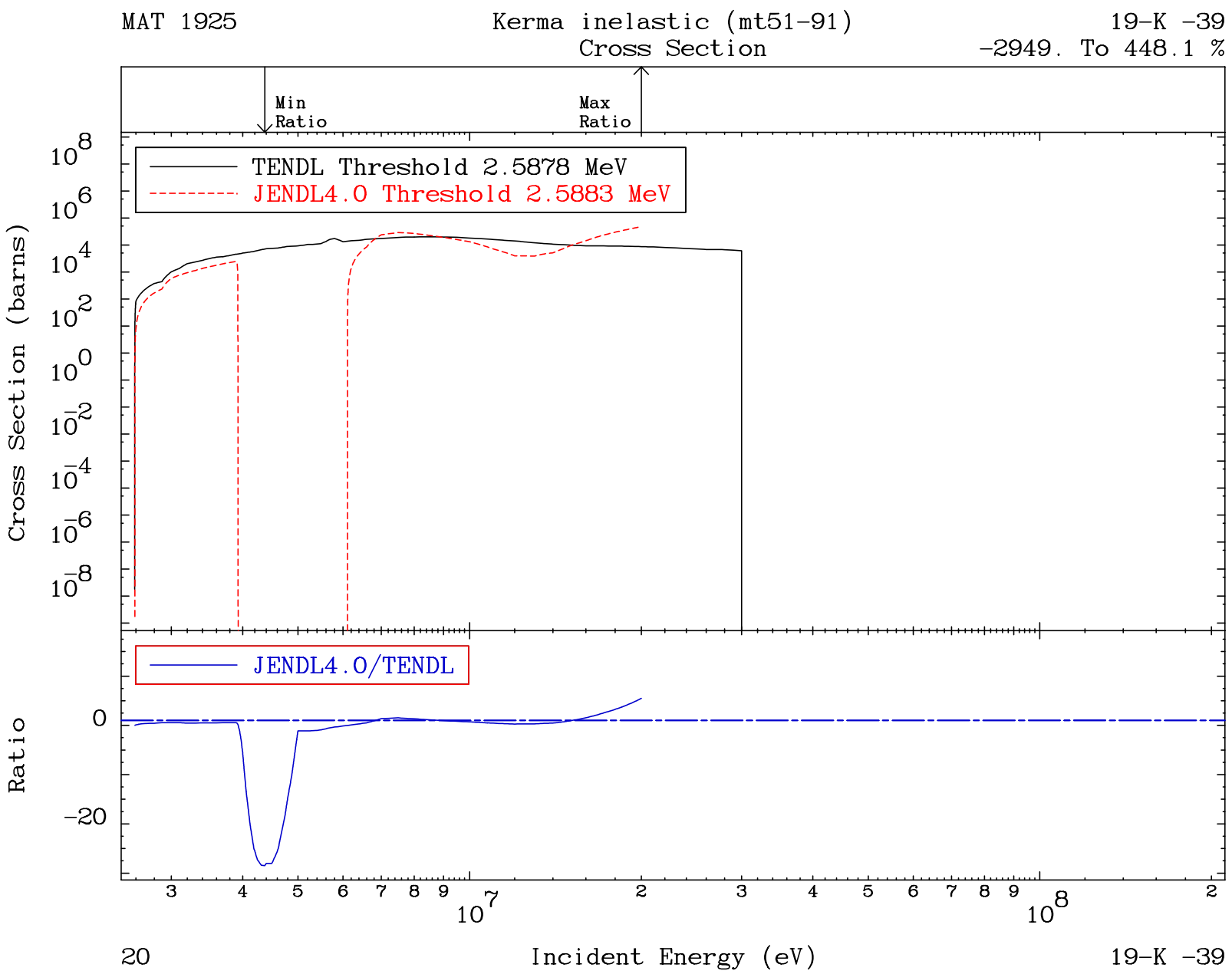

MAT 1925
Hydrogen Production
Cross Section
19-K -39
-15.13 To 38.71 %
Max Ratio
Min Ratio
TENDL Threshold 60.805 keV
JENDL4.0 Threshold 1000.0 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
1.4
1.2
1.0
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
19-K -39

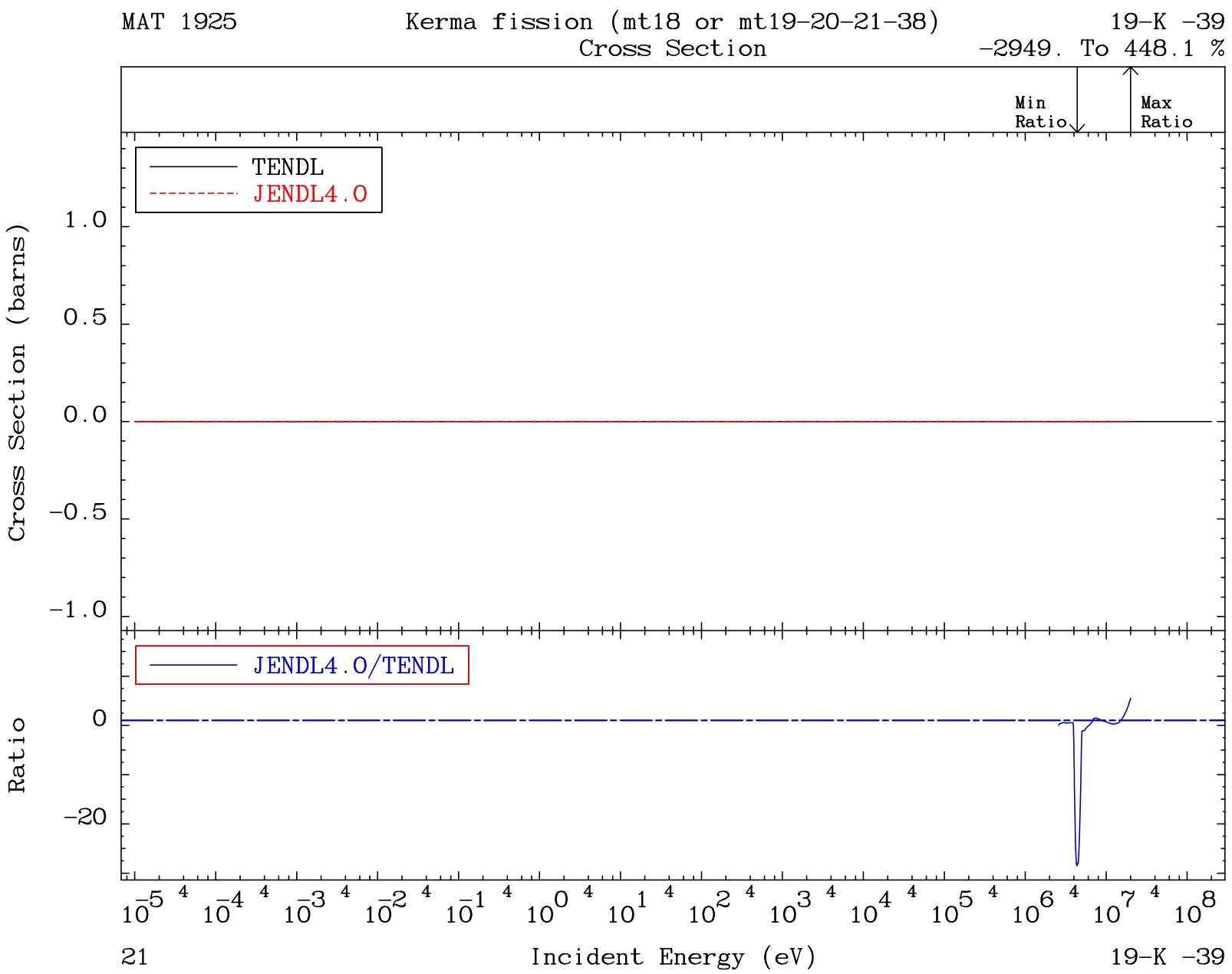

MAT 1925
He-4 Production
Cross Section
19-K -39
-53.23 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
16
19-K -39

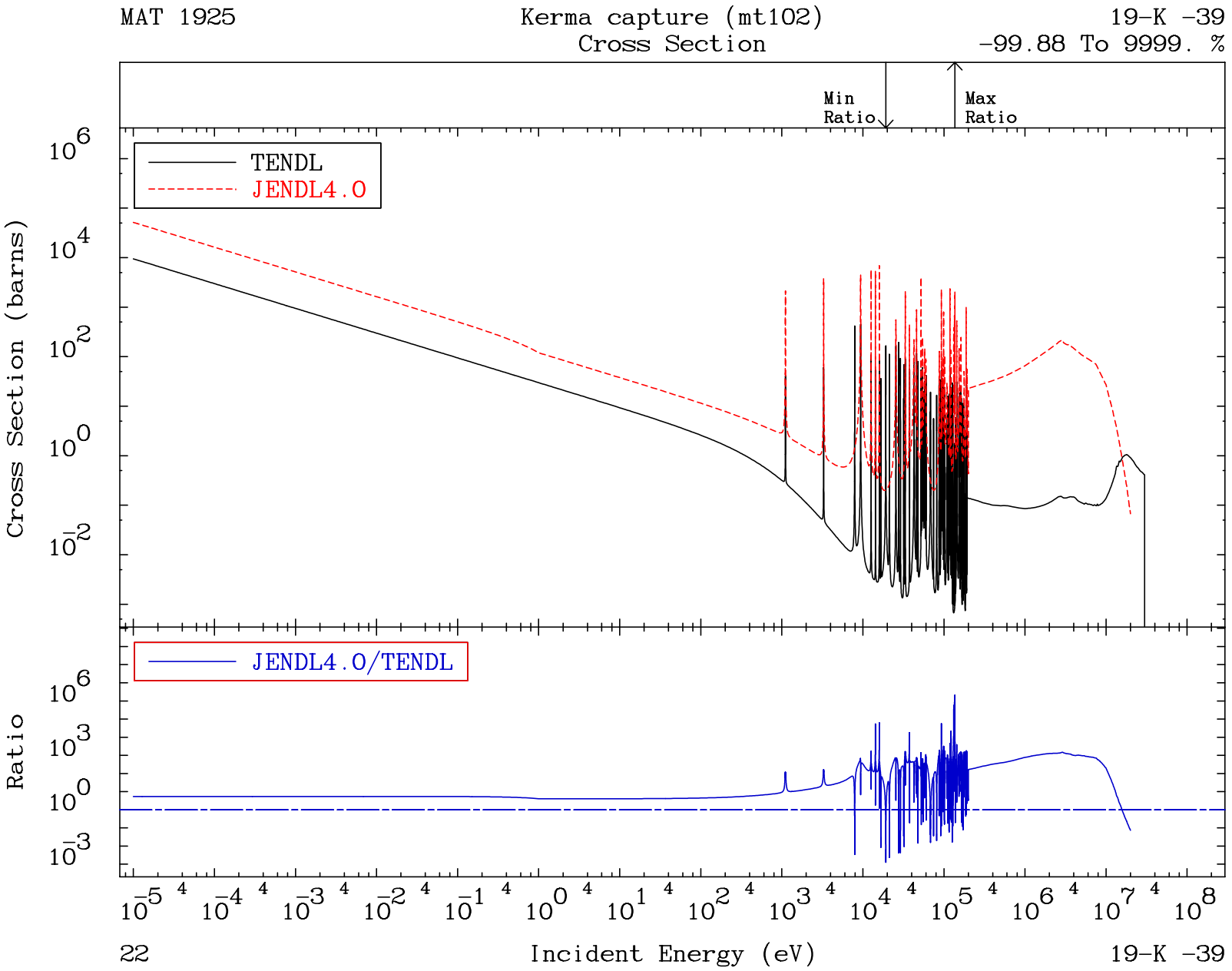

MAT 1925
Kerma total (eV-barns)
Cross Section
19-K -39
-99.45 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
17
19-K -39

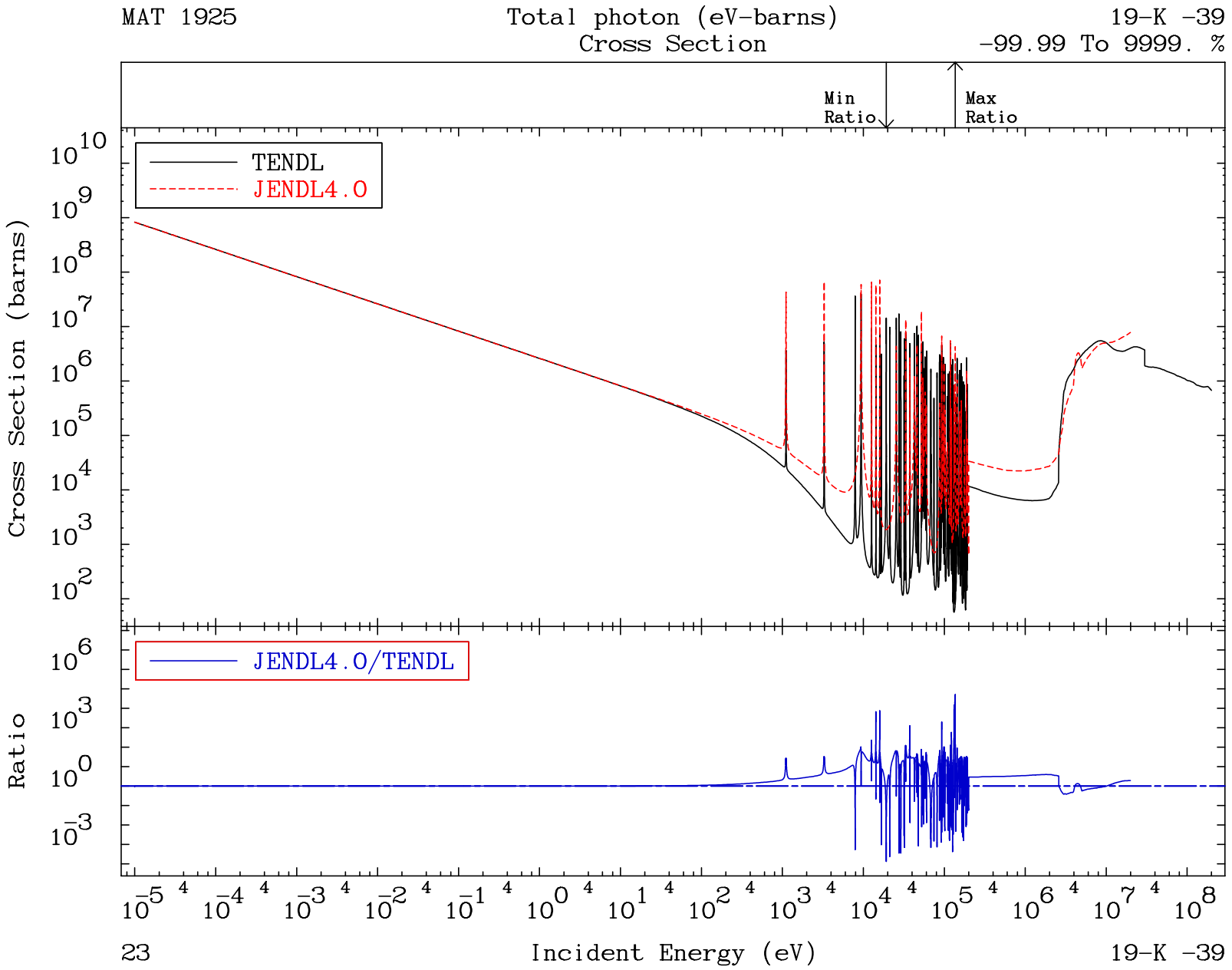

MAT 1925
Kerma elastic
Cross Section
19-K -39
-99.54 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
18
19-K -39

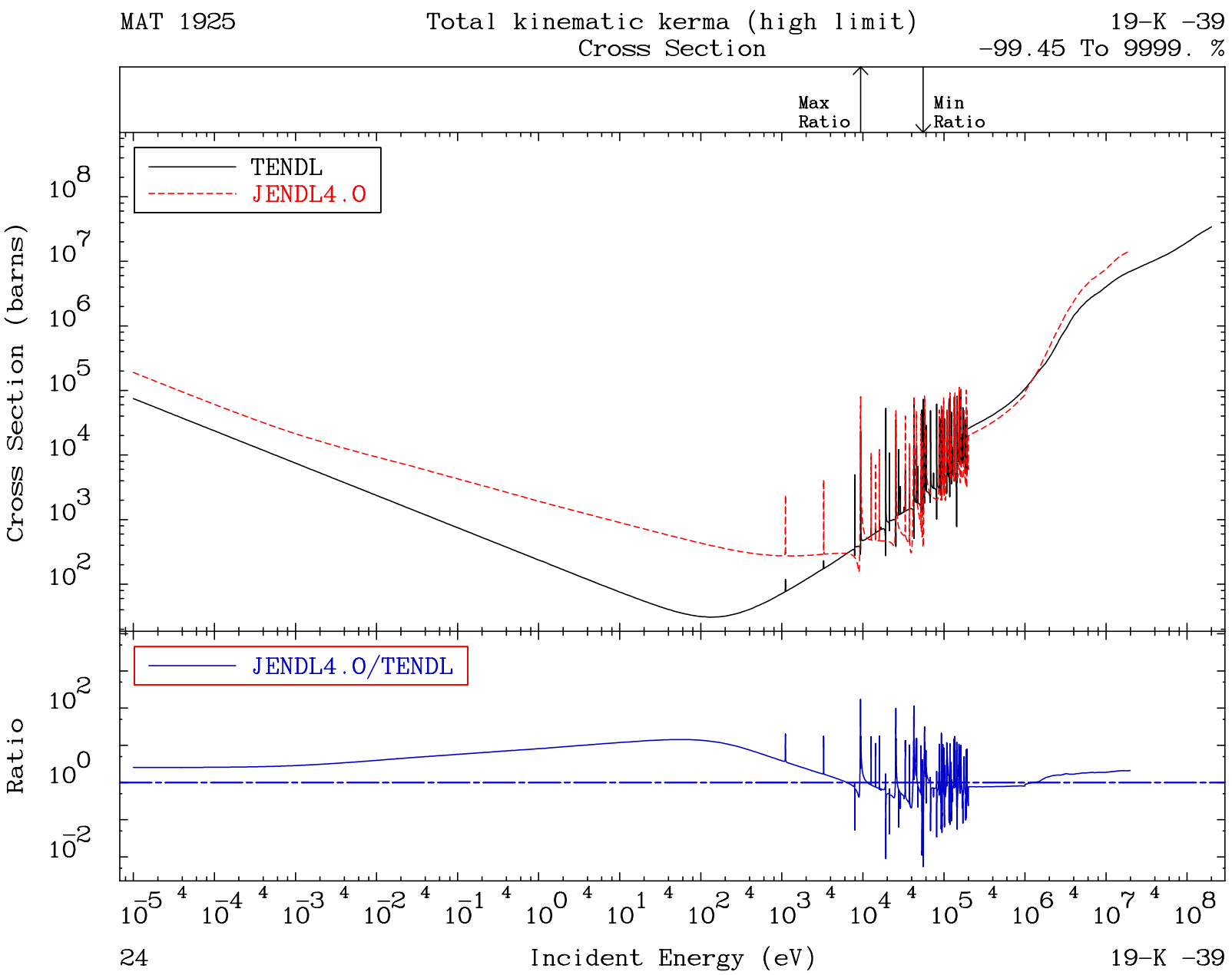

MAT 1925
Kerma non-elastic (all but mt2)
Cross Section
19-K -39
-98.28 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
19
19-K -39

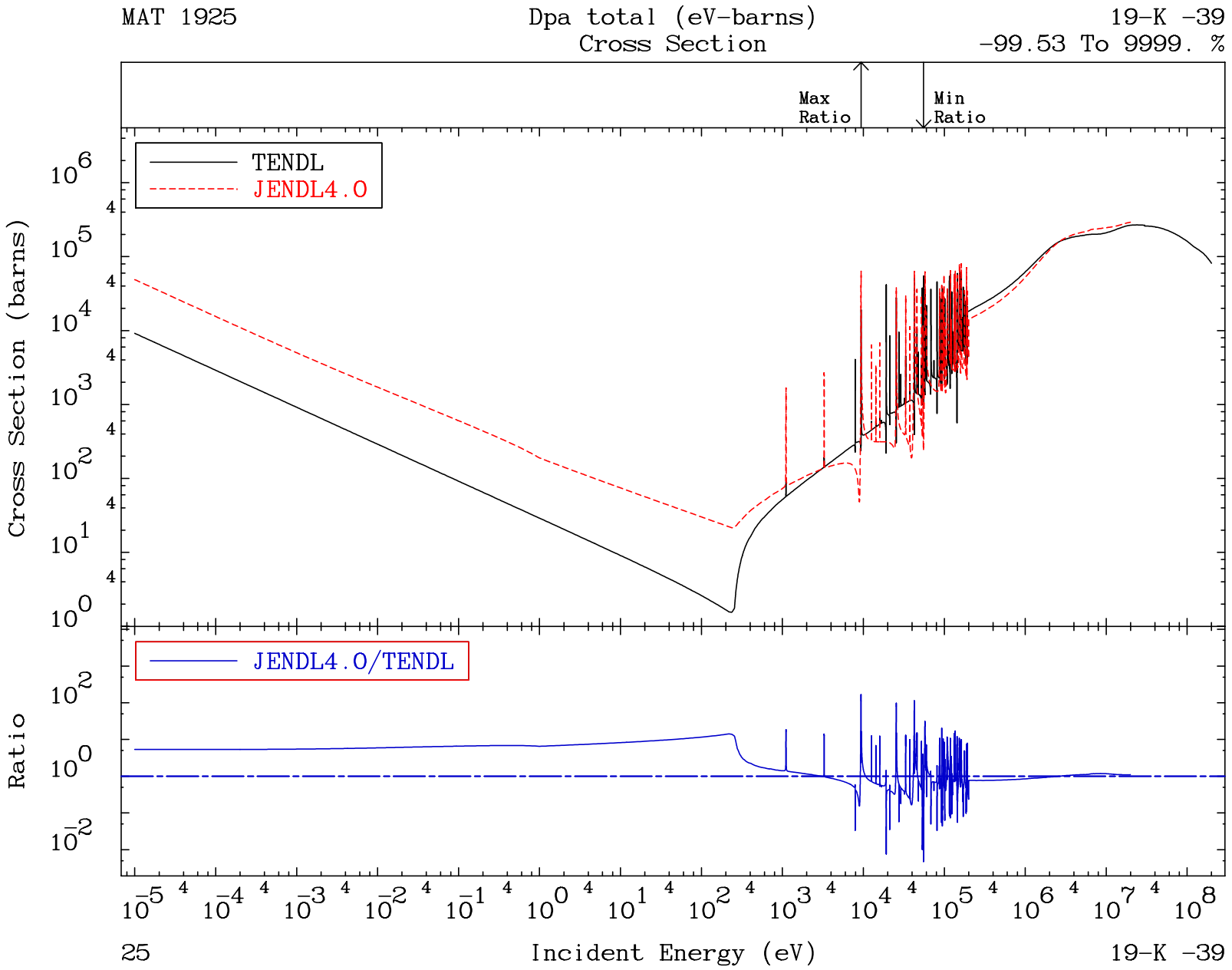

MAT 1925
Kerma inelastic (mt51-91)
Cross Section
19-K -39
-2949. To 448.1 %
Min Ratio
Max Ratio
TENDL Threshold 2.5878 MeV
JENDL4.0 Threshold 2.5883 MeV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
20
19-K -39

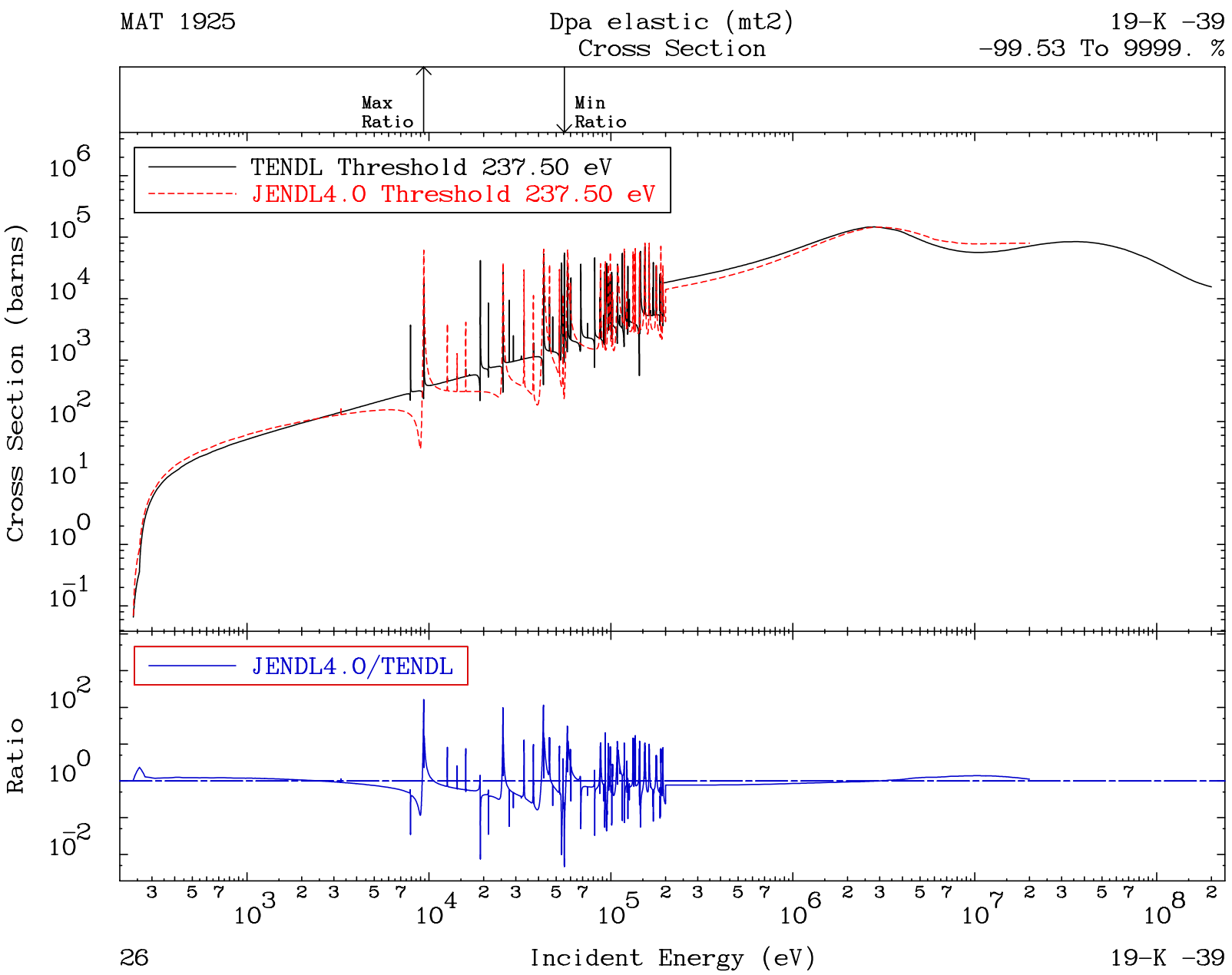

MAT 1925
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
19-K -39
-2949. To 448.1 %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
0
-20
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
21
Incident Energy (eV)
19-K -39

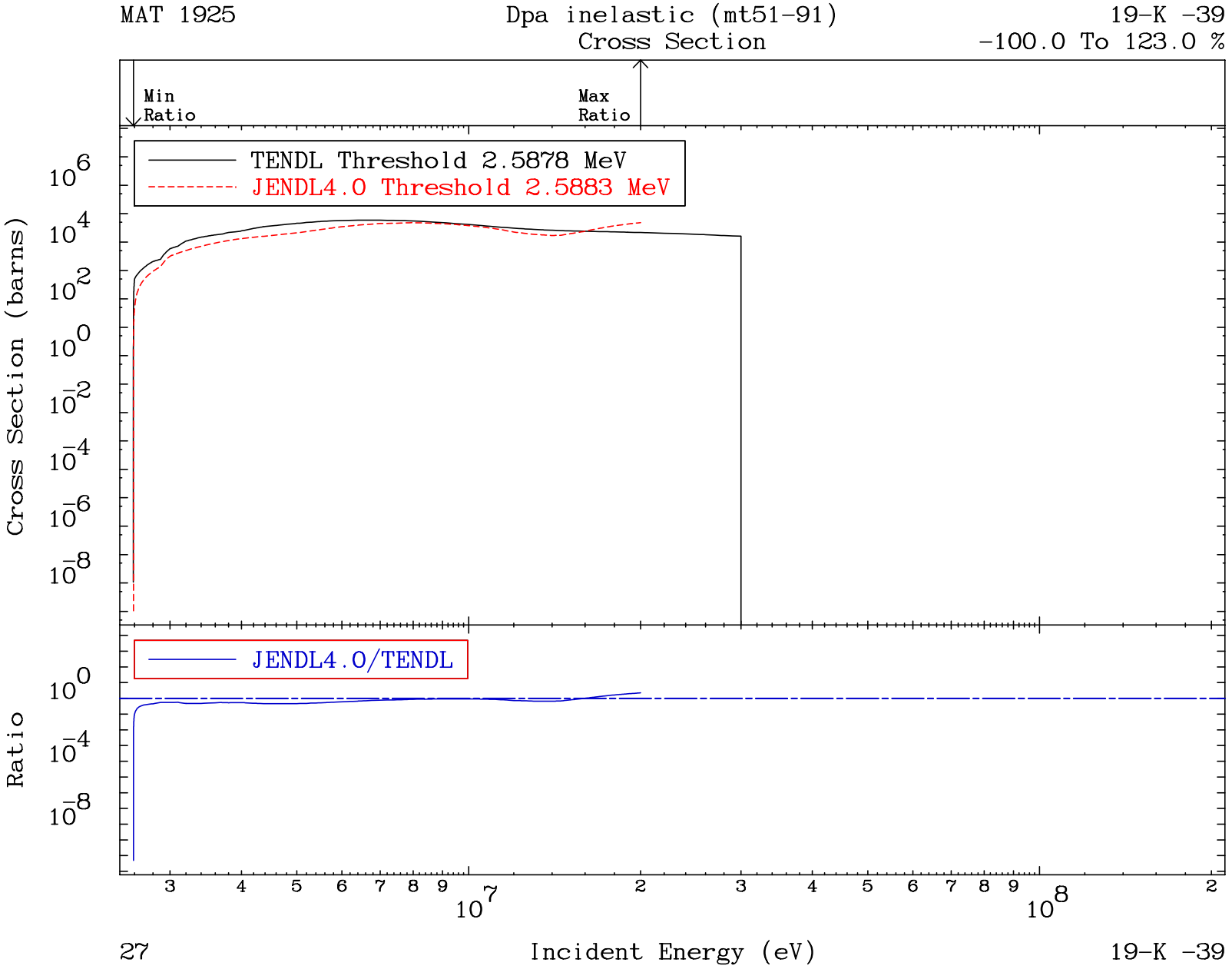

MAT 1925
Kerma capture (mt102)
Cross Section
19-K -39
-99.88 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
22
19-K -39

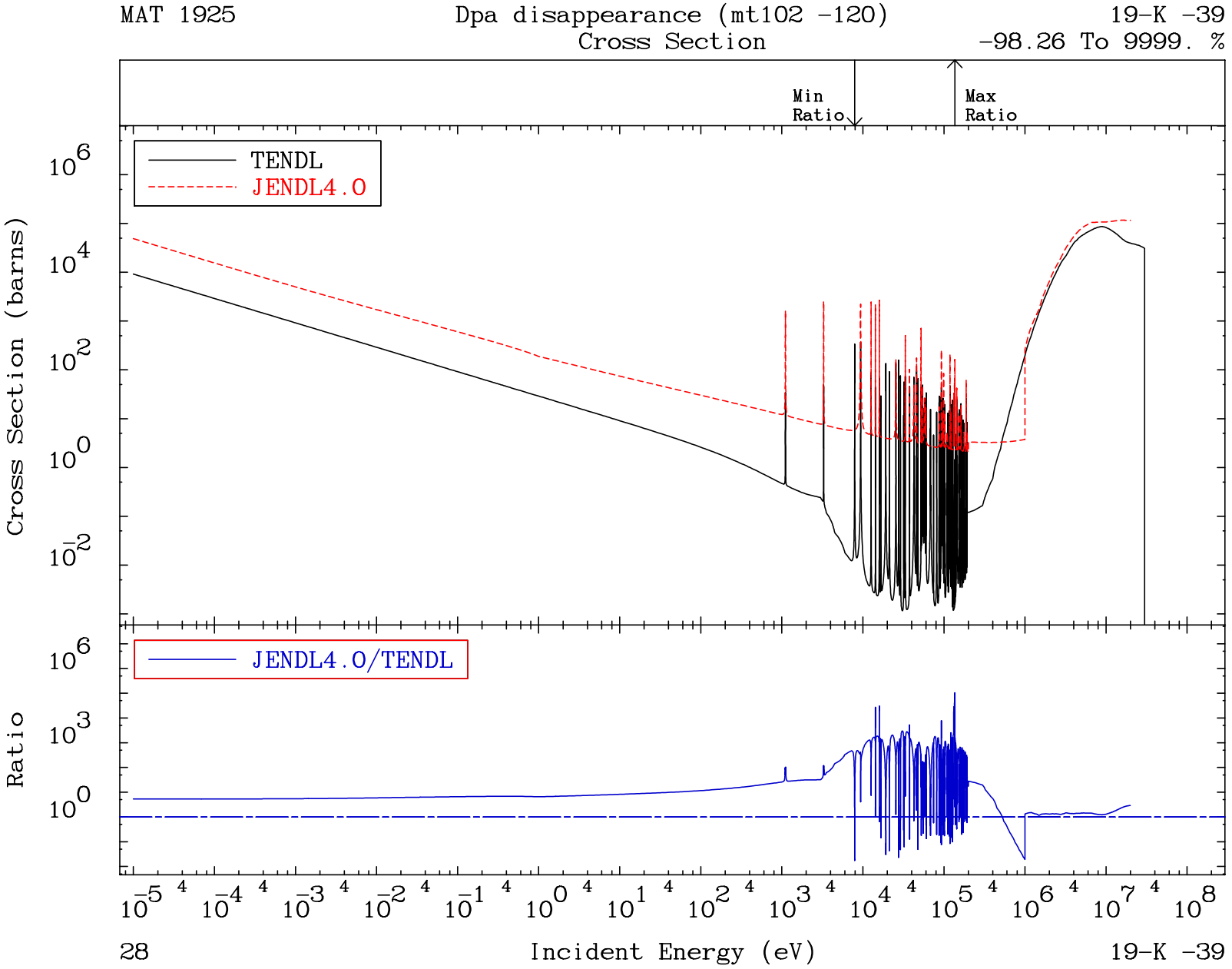

MAT 1925
Total photon (eV-barns)
Cross Section
19-K -39
-99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
23
19-K -39

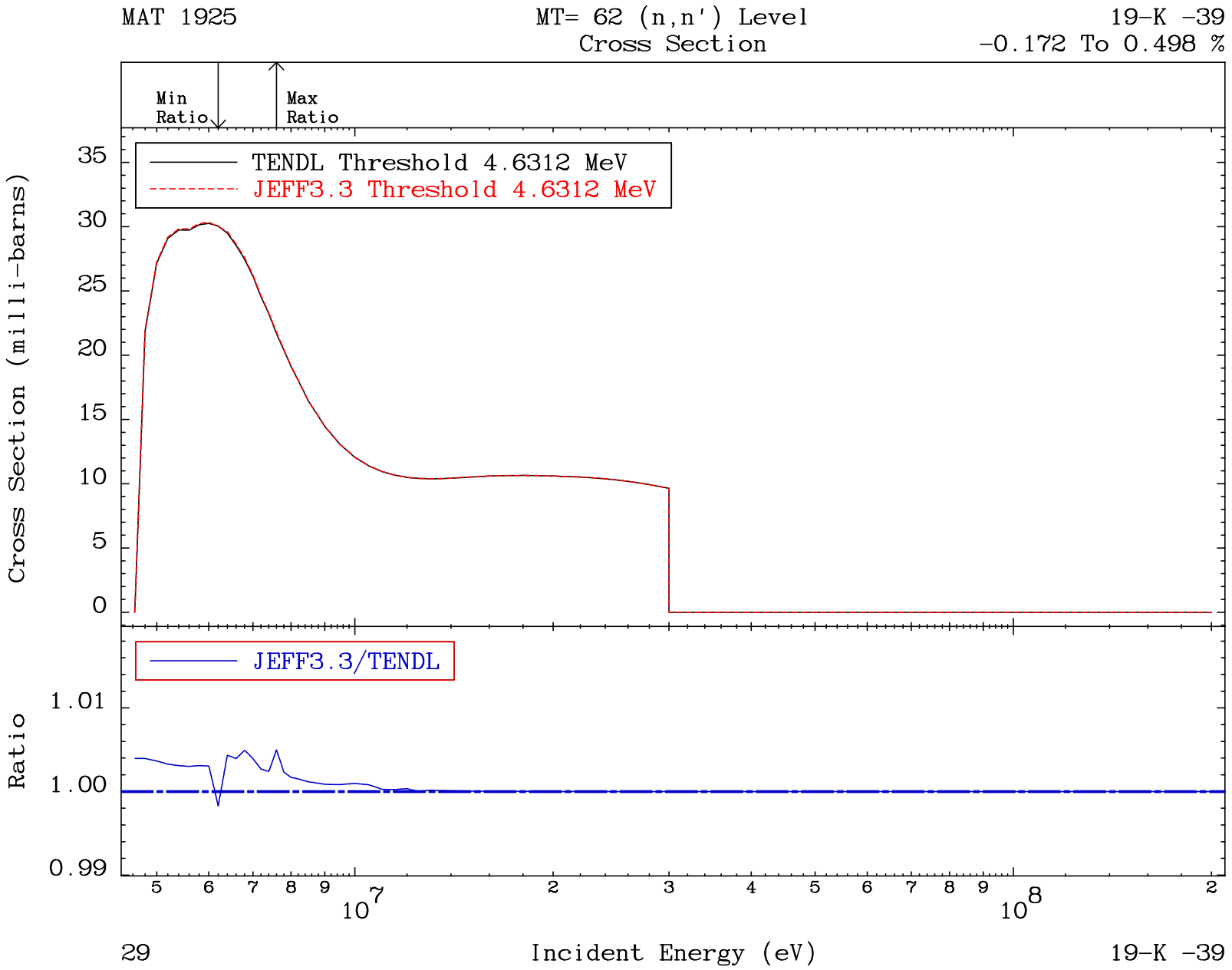

MAT 1925
Total kinematic kerma (high limit)
Cross Section
19-K -39
-99.45 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
24
19-K -39

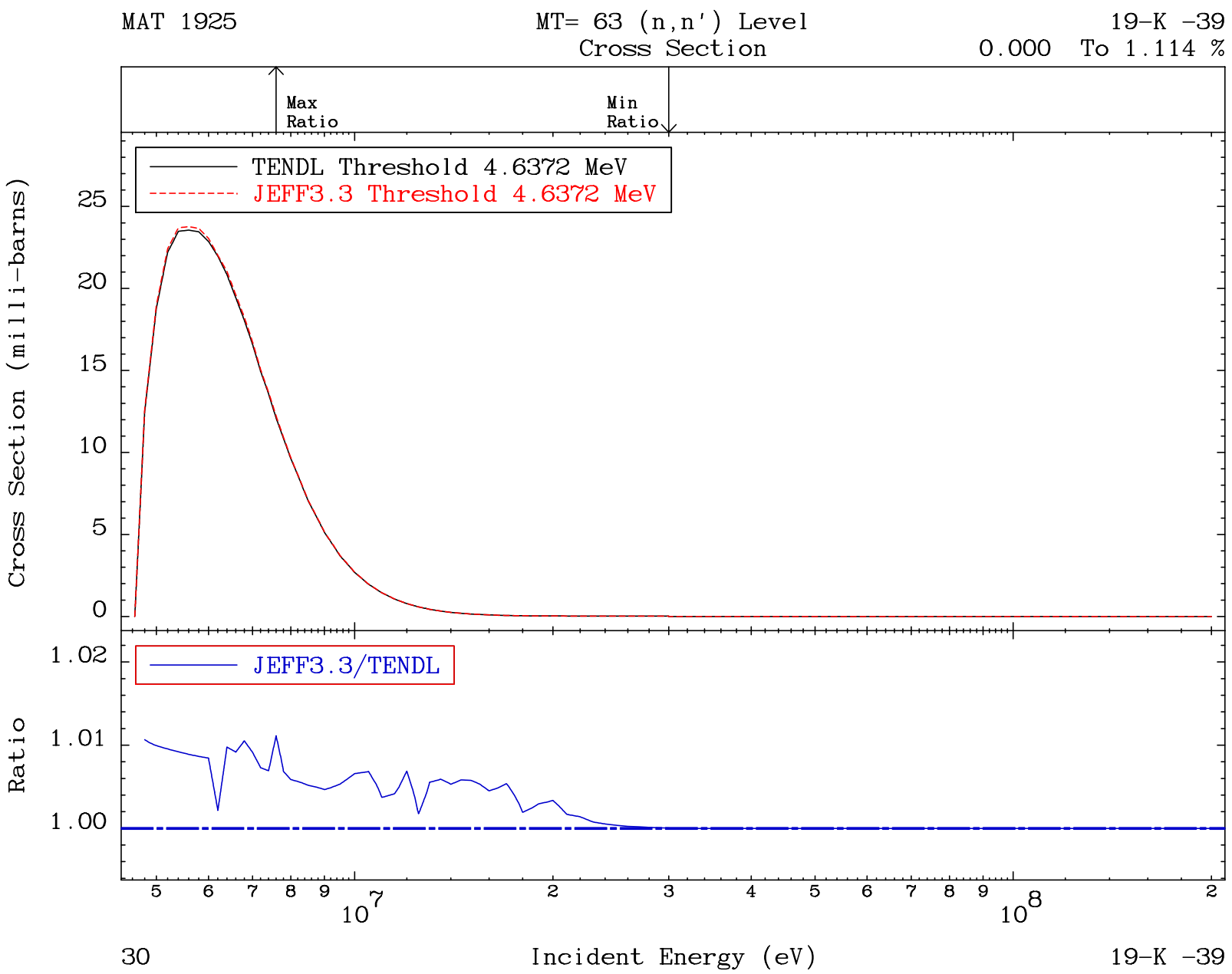

MAT 1925
Dpa total (eV-barns)
Cross Section
19-K -39
-99.53 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
25
19-K -39

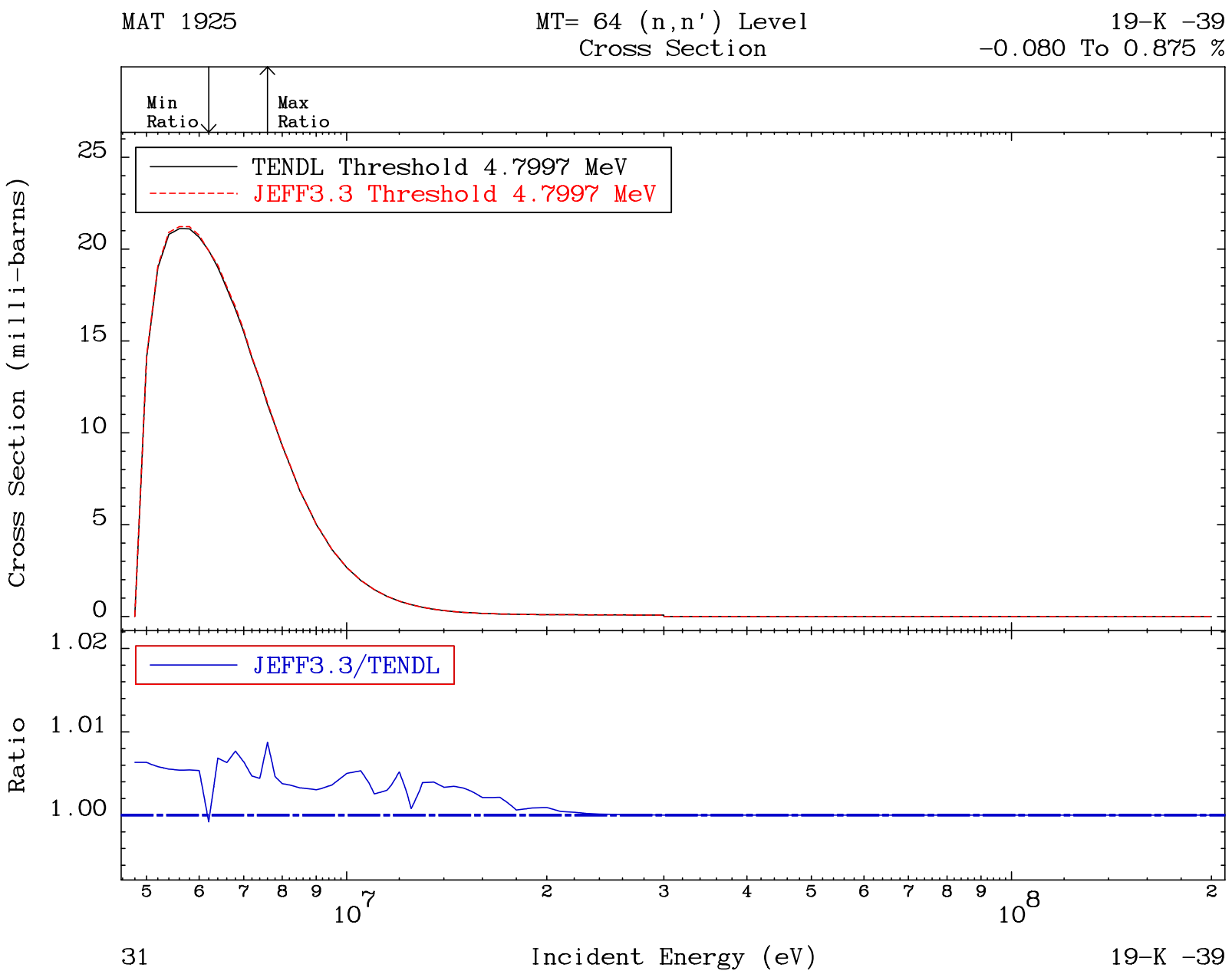

MAT 1925
Dpa elastic (mt2)
Cross Section
19-K -39
-99.53 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 237.50 eV
JENDL4.0 Threshold 237.50 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
26
19-K -39

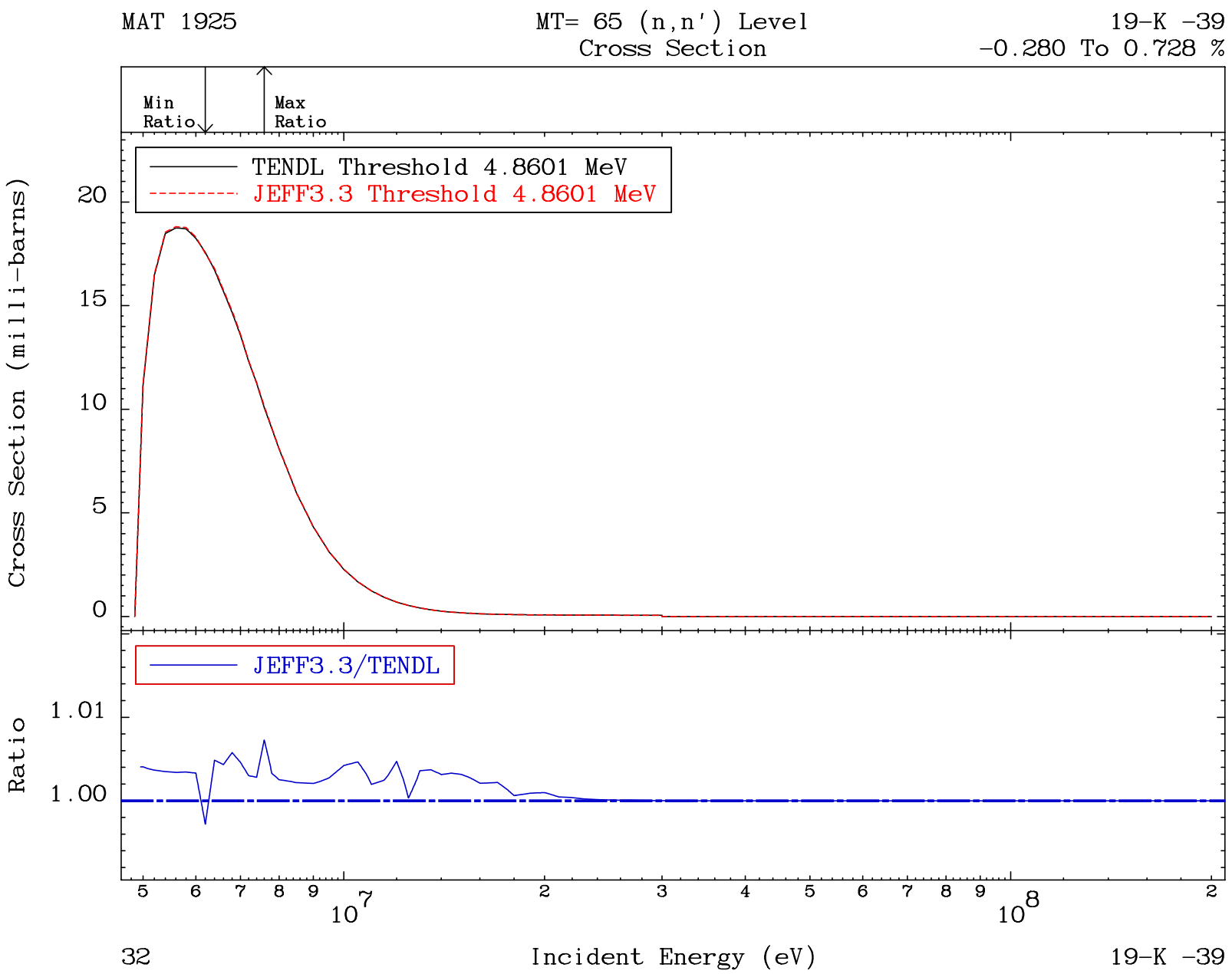

MAT 1925
Dpa inelastic (mt51-91)
Cross Section
19-K -39
-100.0 To 123.0 %
Min Ratio
Max Ratio
TENDL Threshold 2.5878 MeV
JENDL4.0 Threshold 2.5883 MeV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
27
19-K -39

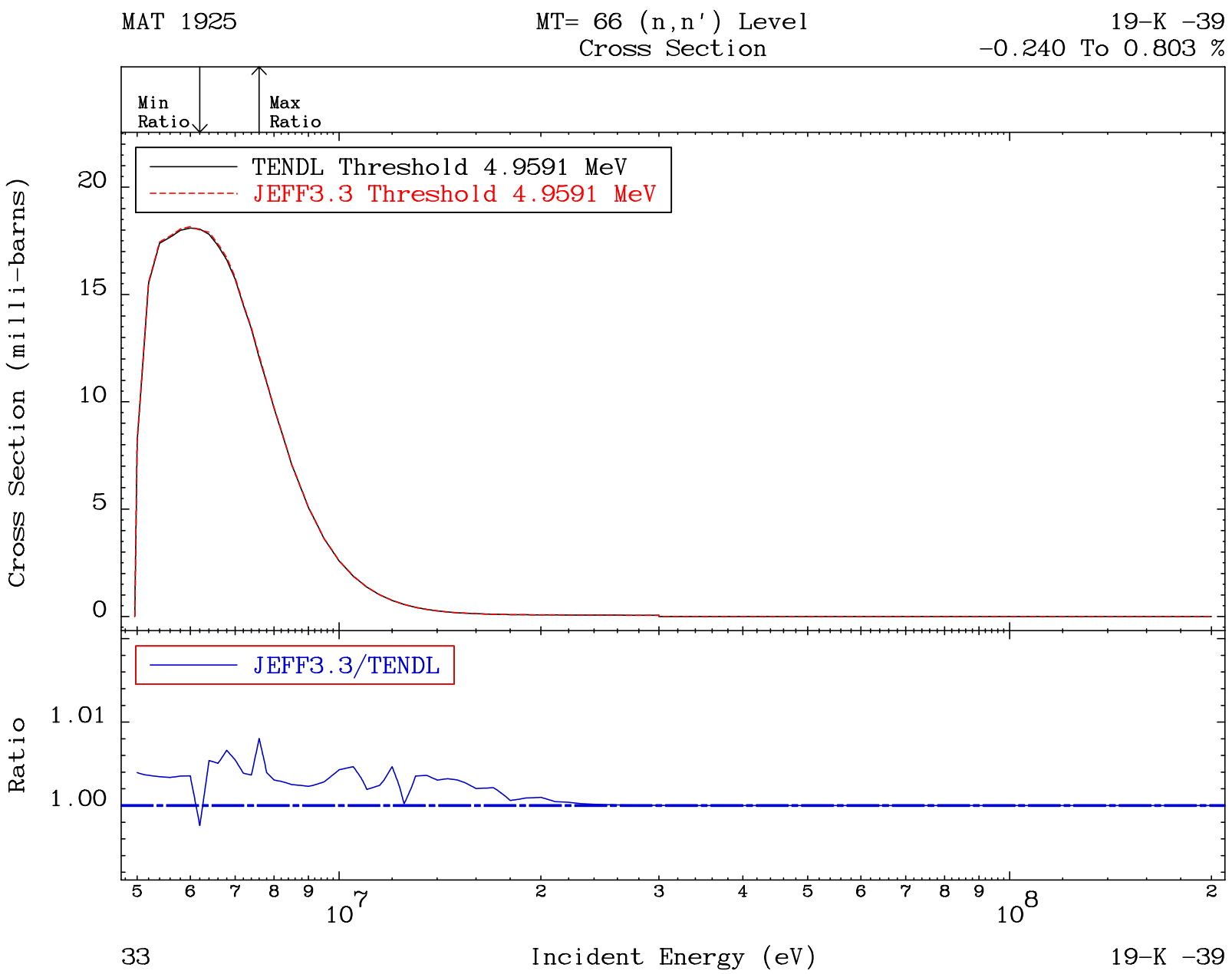

MAT 1925
Dpa disappearance (mt102 -120)
Cross Section
19-K -39
-98.26 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
28
19-K -39

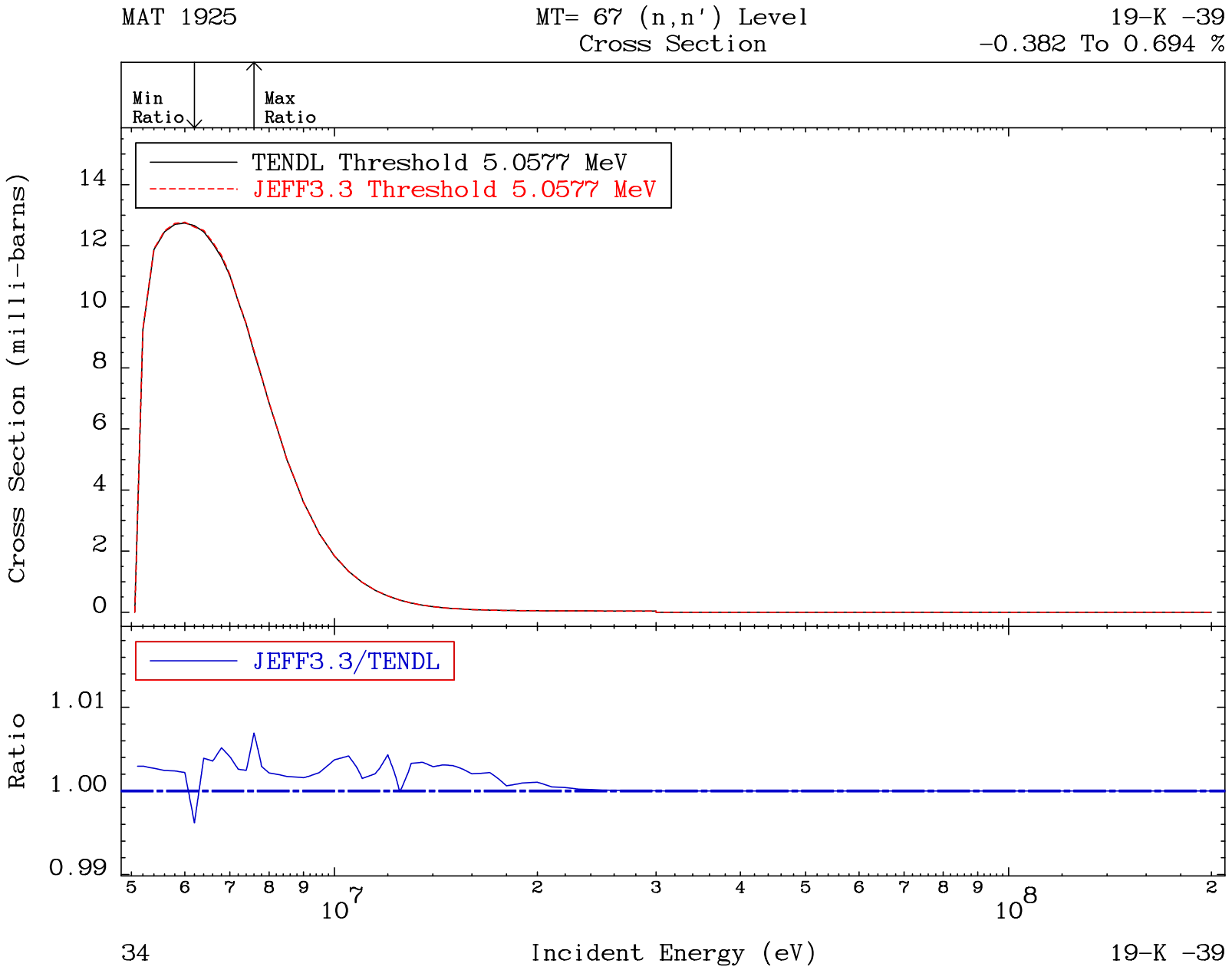

MAT 1925
MT= 62 (n,n') Level
Cross Section
19-K -39
-0.172 To 0.498 %
Min Ratio
Max Ratio
TENDL Threshold 4.6312 MeV
JEFF3.3 Threshold 4.6312 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
19-K -39

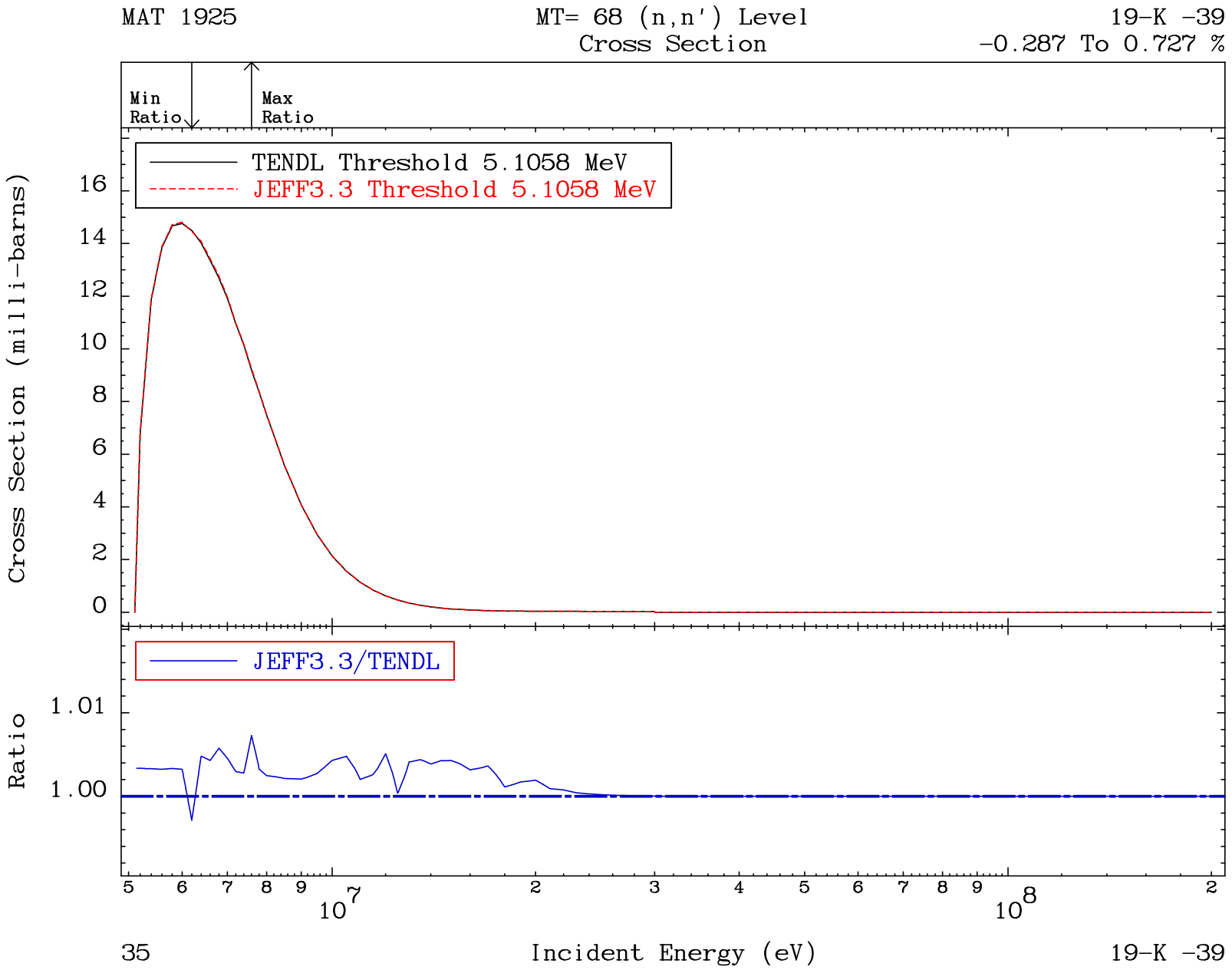

MAT 1925
MT= 63 (n,n') Level
Cross Section
19-K -39
0.000 To 1.114 %
Max Ratio
Min Ratio
TENDL Threshold 4.6372 MeV
JEFF3.3 Threshold 4.6372 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
19-K -39

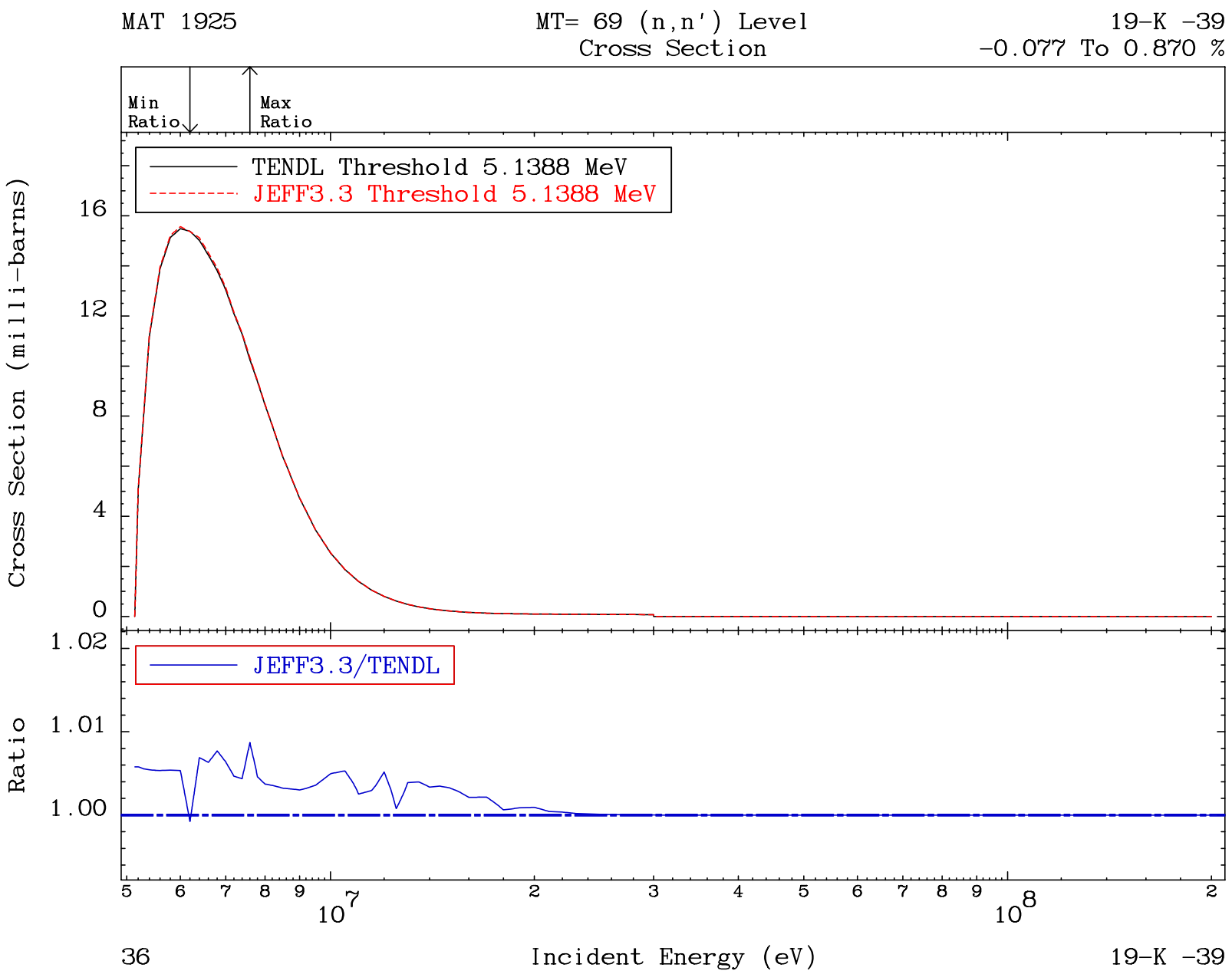

MAT 1925
MT= 64 (n,n') Level
Cross Section
19-K -39
-0.080 To 0.875 %
Min Ratio
Max Ratio
TENDL Threshold 4.7997 MeV
JEFF3.3 Threshold 4.7997 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
19-K -39

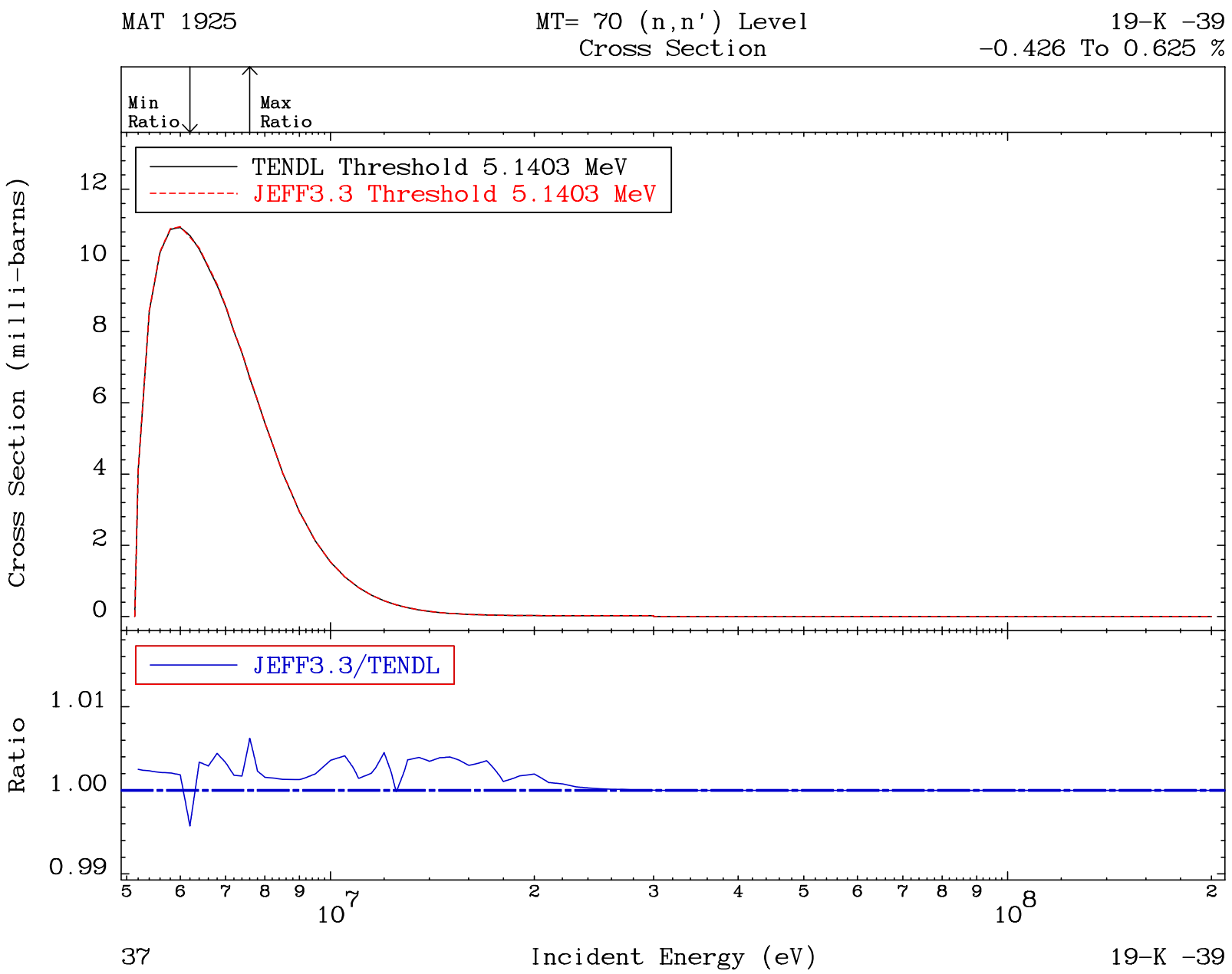

MAT 1925
MT= 65 (n,n') Level
Cross Section
19-K -39
-0.280 To 0.728 %
Min Ratio
Max Ratio
TENDL Threshold 4.8601 MeV
JEFF3.3 Threshold 4.8601 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
19-K -39

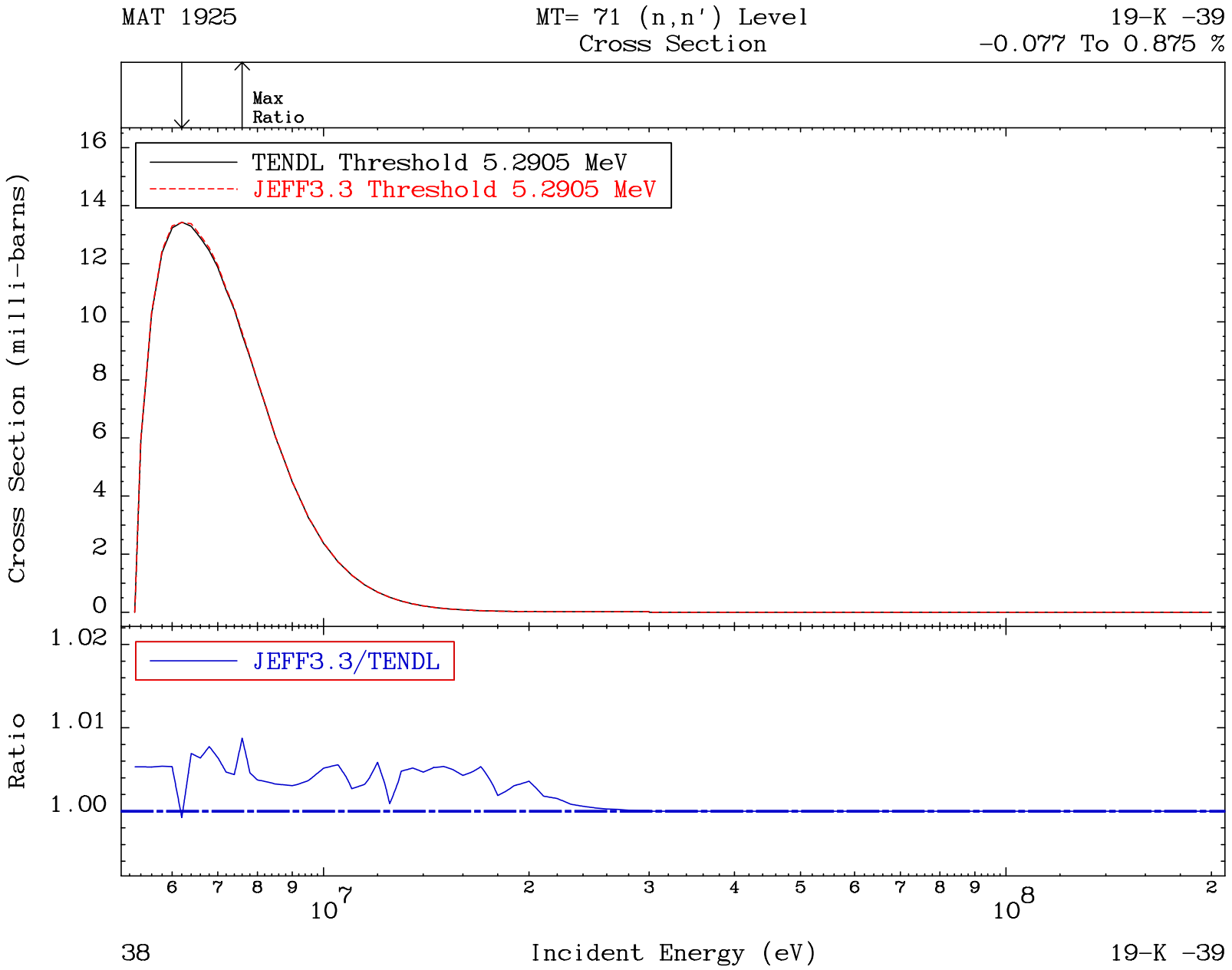

MAT 1925
MT= 66 (n,n') Level
Cross Section
19-K -39
-0.240 To 0.803 %
Min Ratio
Max Ratio
TENDL Threshold 4.9591 MeV
JEFF3.3 Threshold 4.9591 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
19-K -39

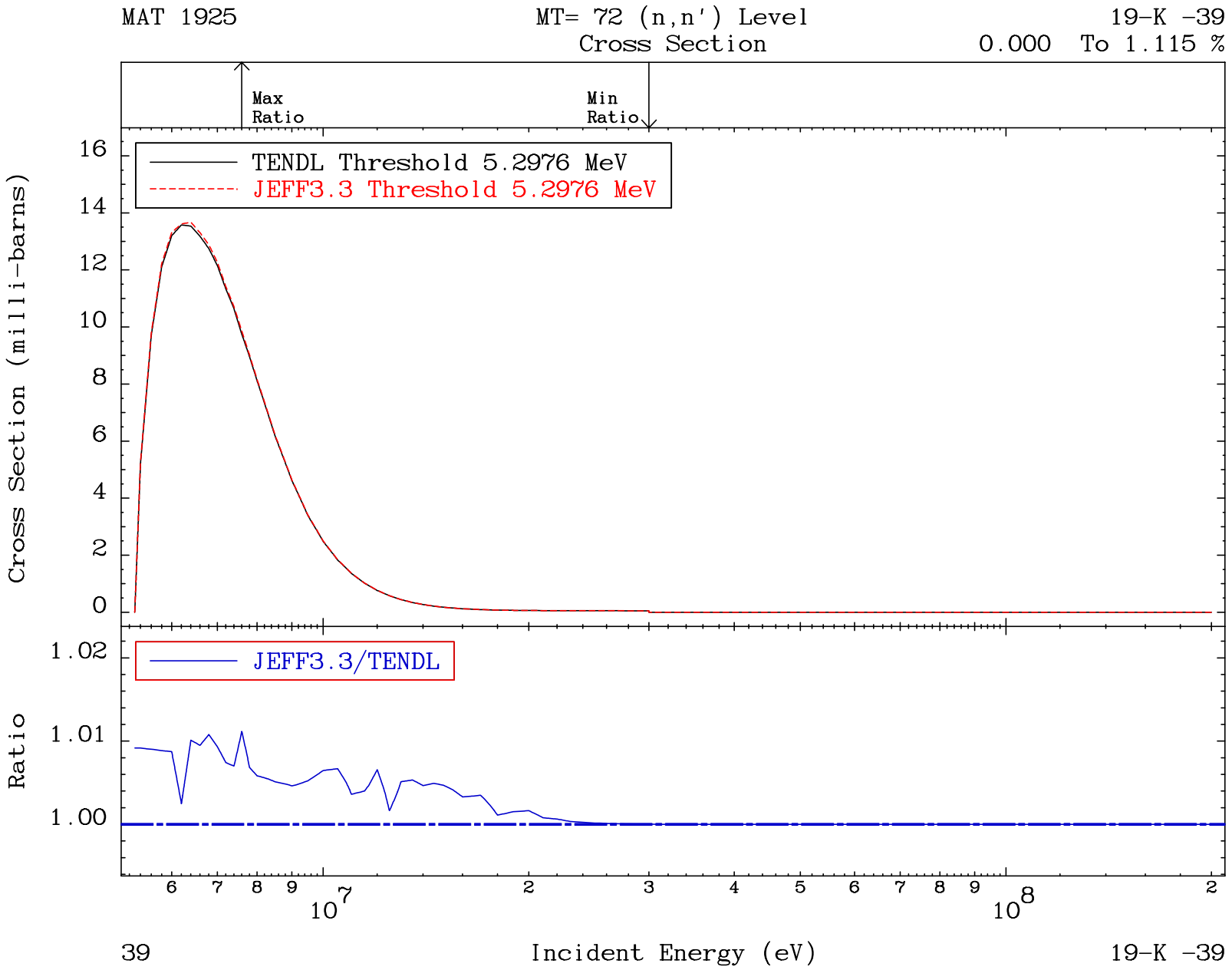

MAT 1925
MT= 67 (n,n') Level
Cross Section
19-K -39
-0.382 To 0.694 %
Min Ratio
Max Ratio
TENDL Threshold 5.0577 MeV
JEFF3.3 Threshold 5.0577 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
34
19-K -39

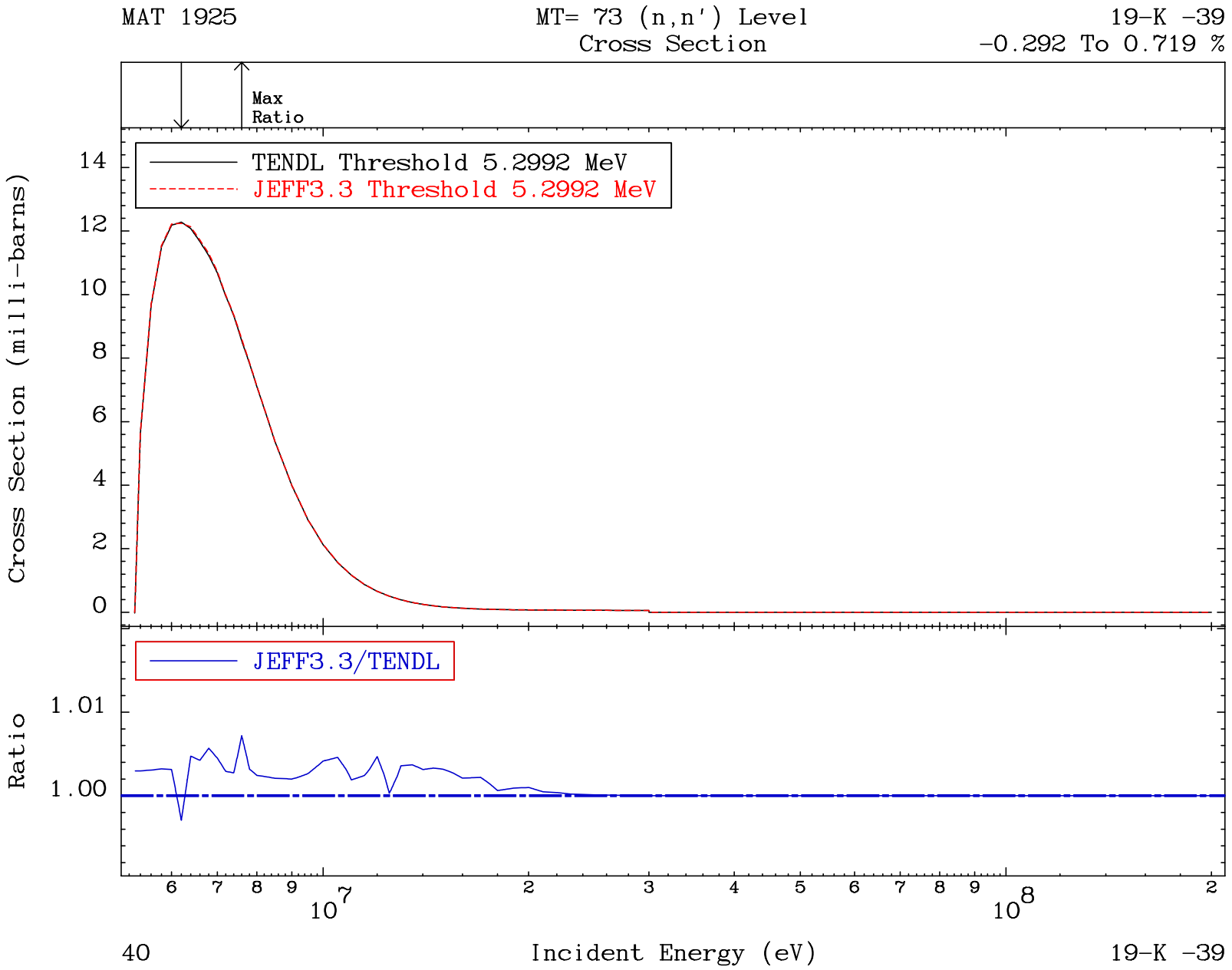

MAT 1925
MT= 68 (n,n') Level
Cross Section
19-K -39
-0.287 To 0.727 %
Min Ratio
Max Ratio
TENDL Threshold 5.1058 MeV
JEFF3.3 Threshold 5.1058 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
JEFF3.3/TENDL
Ratio
1.00
1.01
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
35
19-K -39

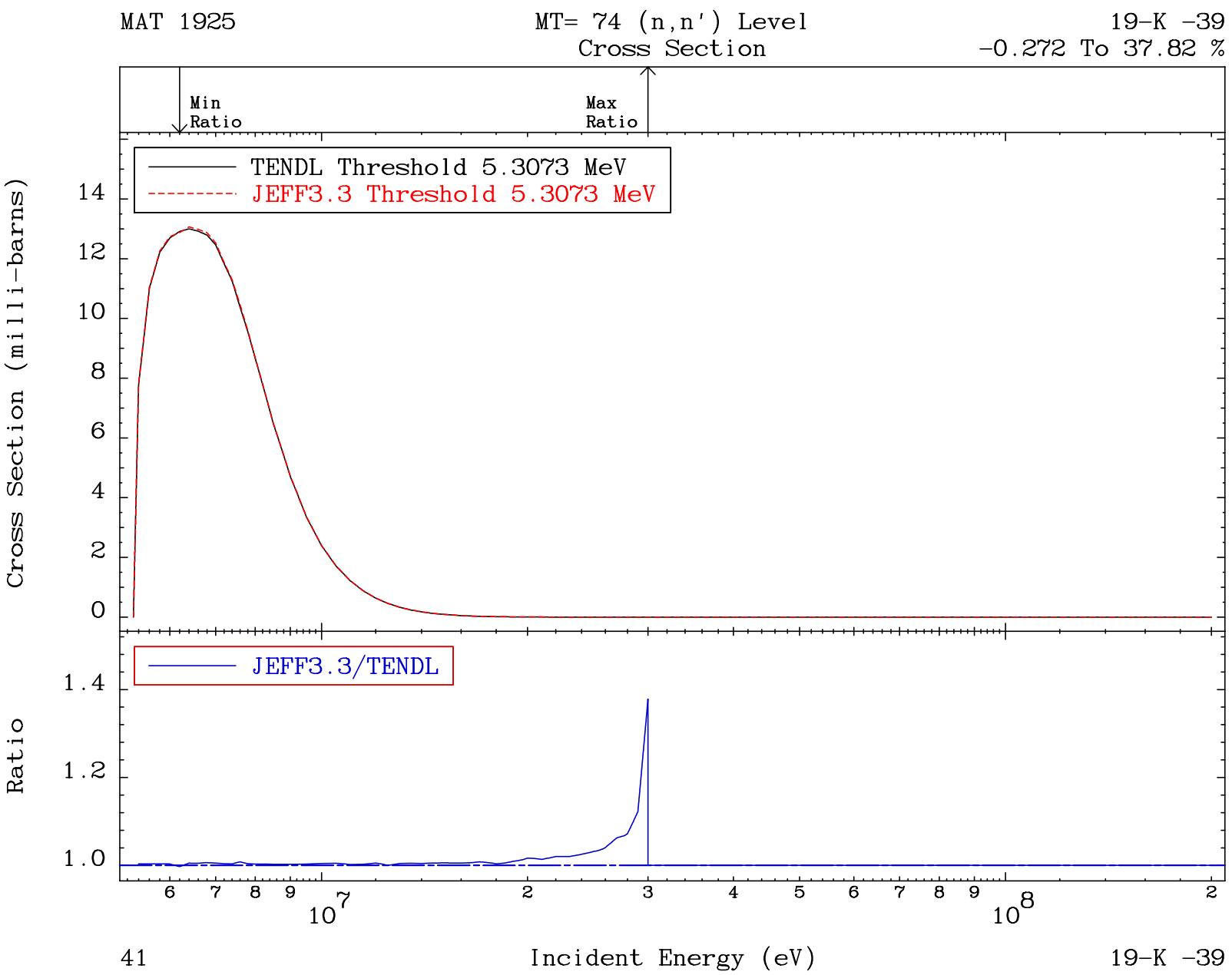

MAT 1925
MT= 69 (n,n') Level
Cross Section
19-K -39
-0.077 To 0.870 %
Min Ratio
Max Ratio
TENDL Threshold 5.1388 MeV
JEFF3.3 Threshold 5.1388 MeV
Cross Section (milli-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
19-K -39

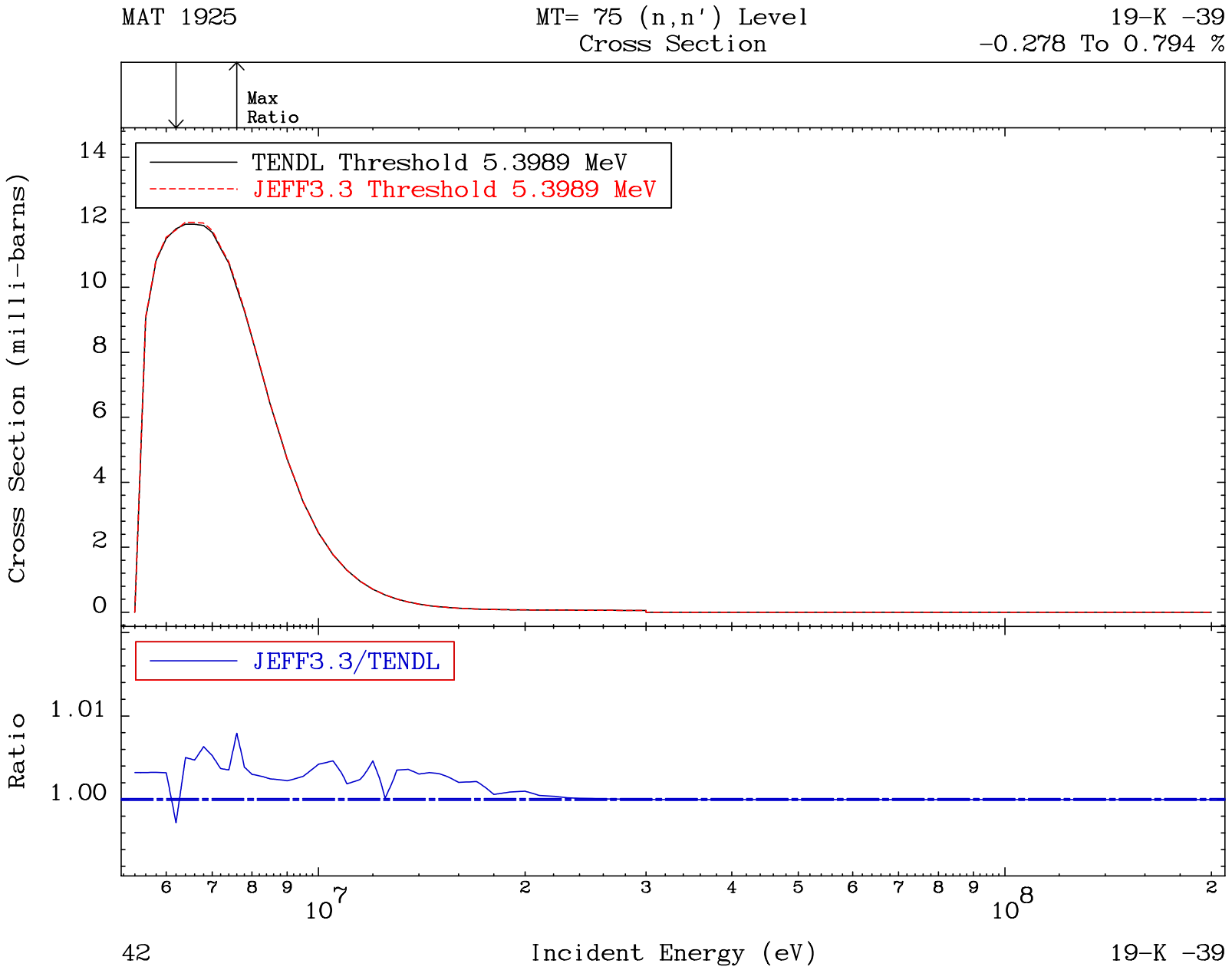

MAT 1925
MT= 70 (n,n') Level
Cross Section
19-K -39
-0.426 To 0.625 %
Min Ratio
Max Ratio
TENDL Threshold 5.1403 MeV
JEFF3.3 Threshold 5.1403 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
19-K -39

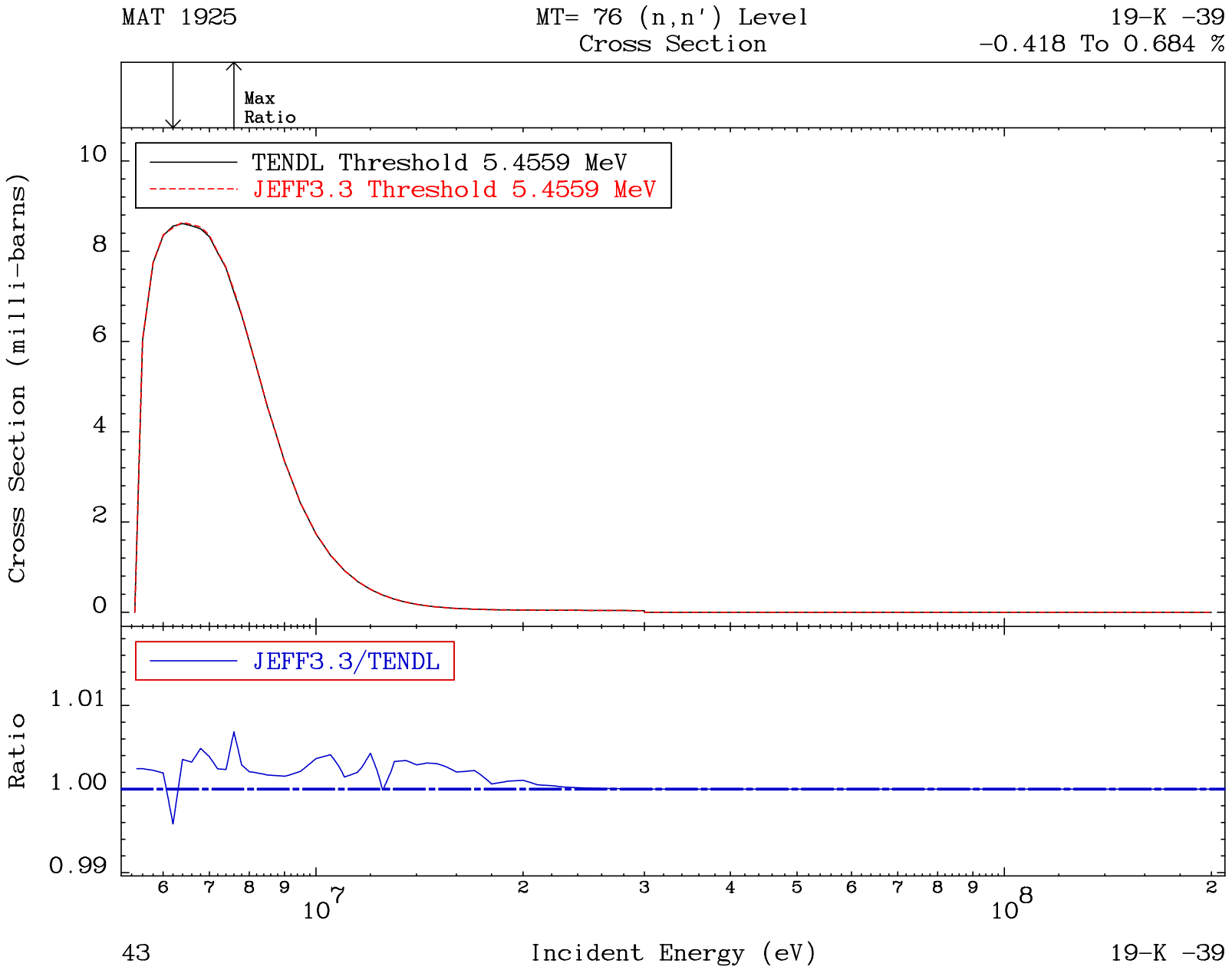

MAT 1925
MT= 71 (n,n') Level
Cross Section
19-K -39
-0.077 To 0.875 %
Max
Ratio
TENDL Threshold 5.2905 MeV
JEFF3.3 Threshold 5.2905 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
19-K -39

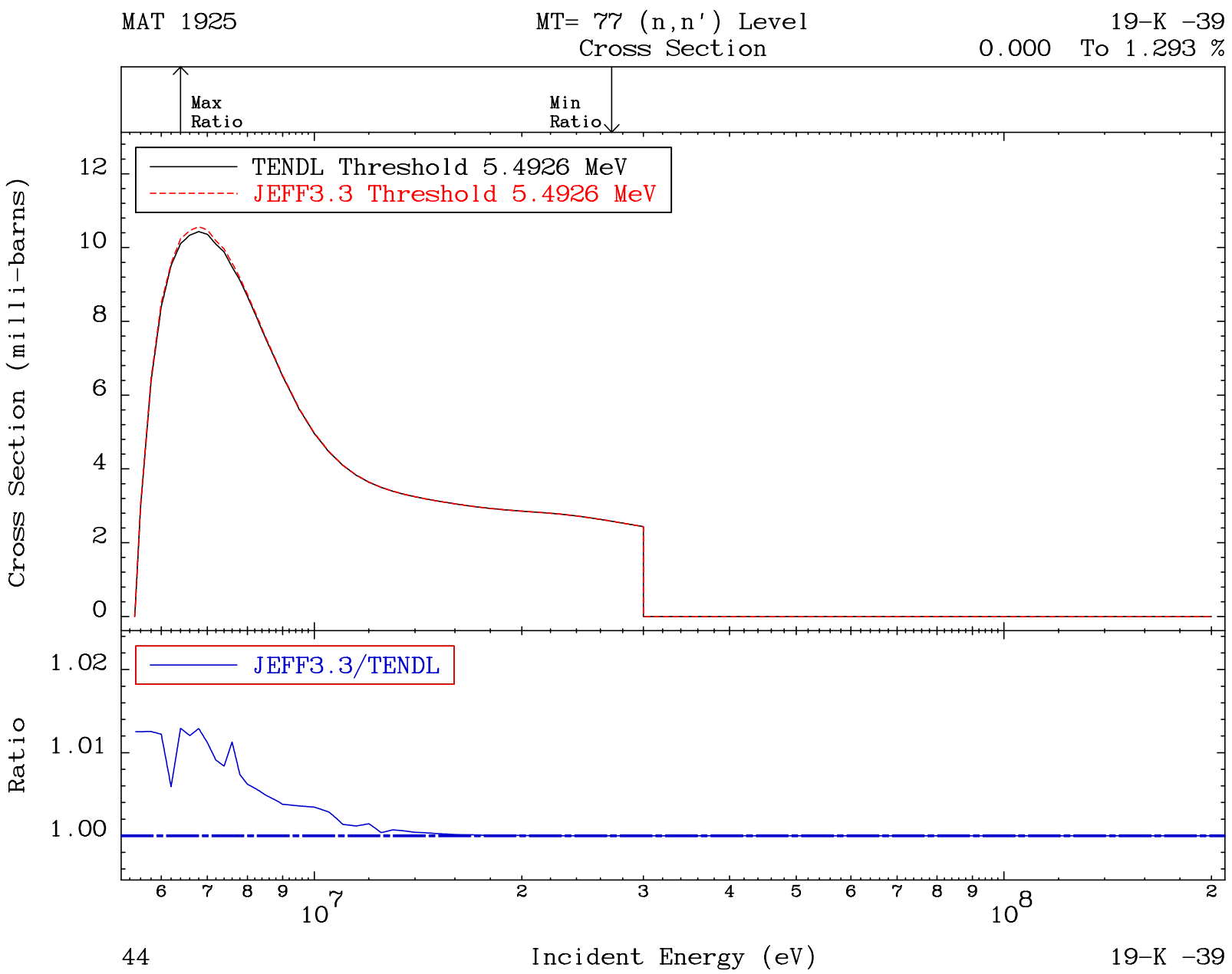

MAT 1925
MT= 72 (n,n') Level
Cross Section
19-K -39
0.000 To 1.115 %
Max Ratio
Min Ratio
TENDL Threshold 5.2976 MeV
JEFF3.3 Threshold 5.2976 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
19-K -39

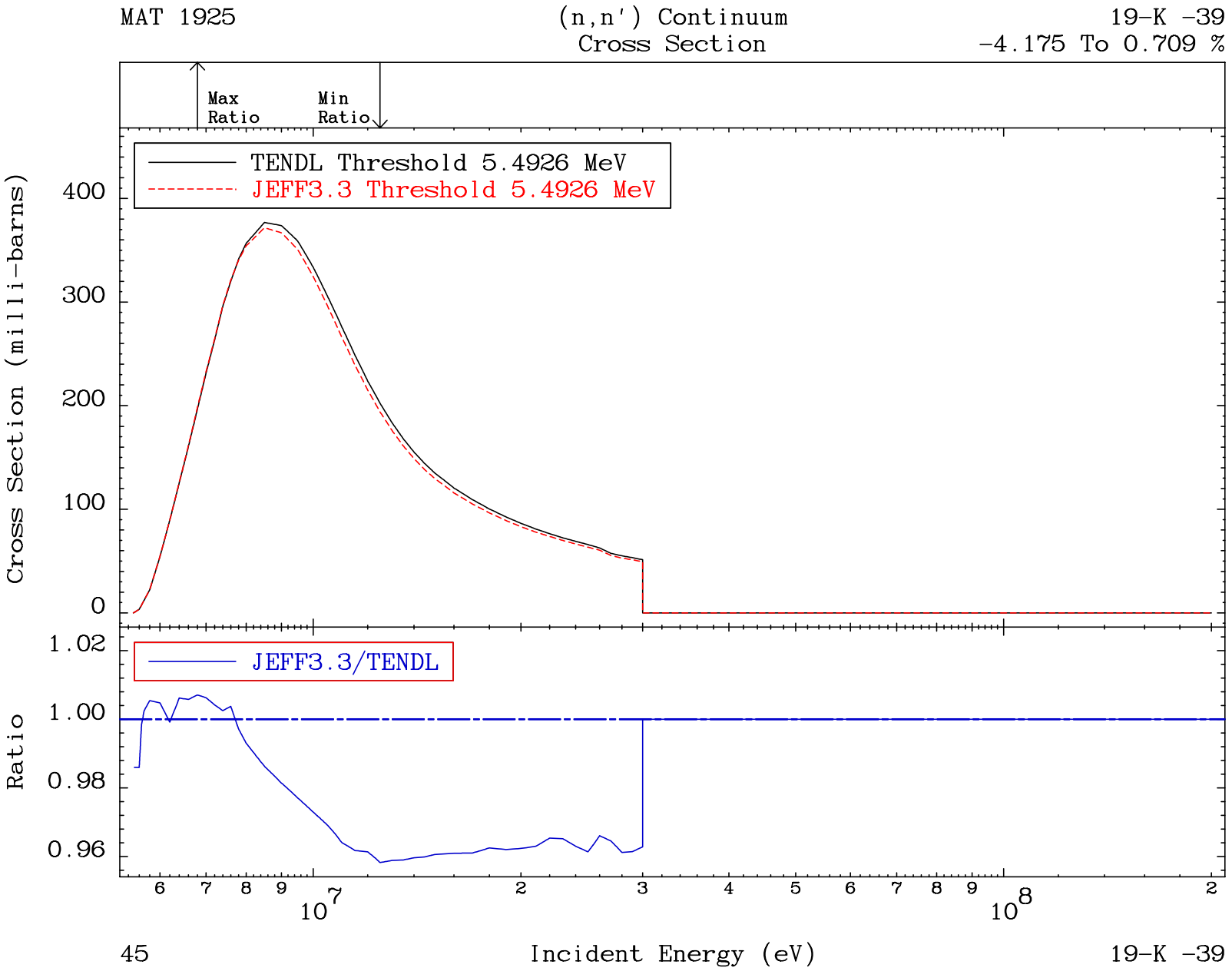

MAT 1925
MT= 73 (n,n') Level
Cross Section
19-K -39
-0.292 To 0.719 %
Max
Ratio
TENDL Threshold 5.2992 MeV
JEFF3.3 Threshold 5.2992 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
19-K -39

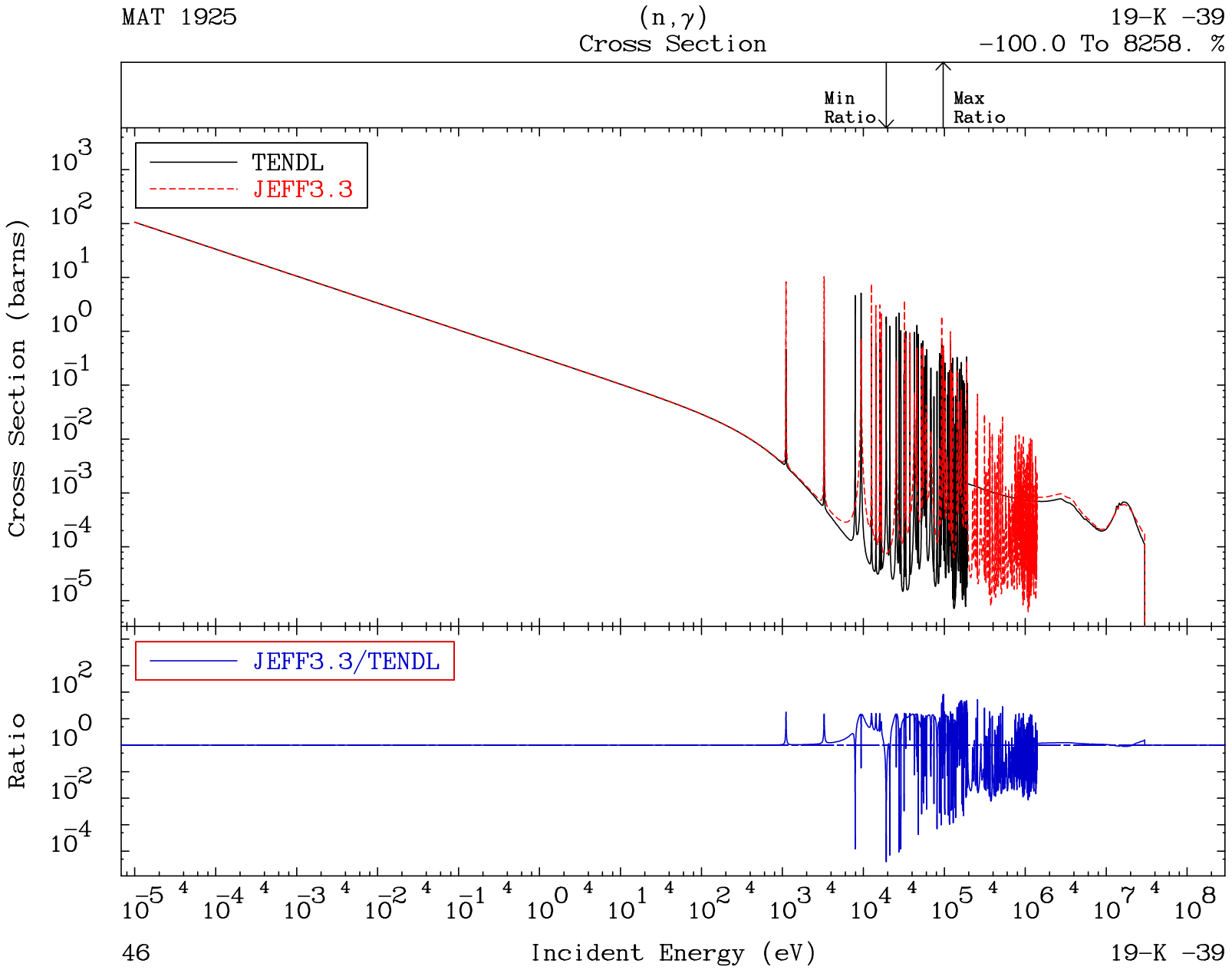

MAT 1925
MT= 74 (n,n') Level
Cross Section
19-K -39
-0.272 To 37.82 %
Min
Ratio
Max
Ratio
TENDL Threshold 5.3073 MeV
JEFF3.3 Threshold 5.3073 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
41
Incident Energy (eV)
19-K -39

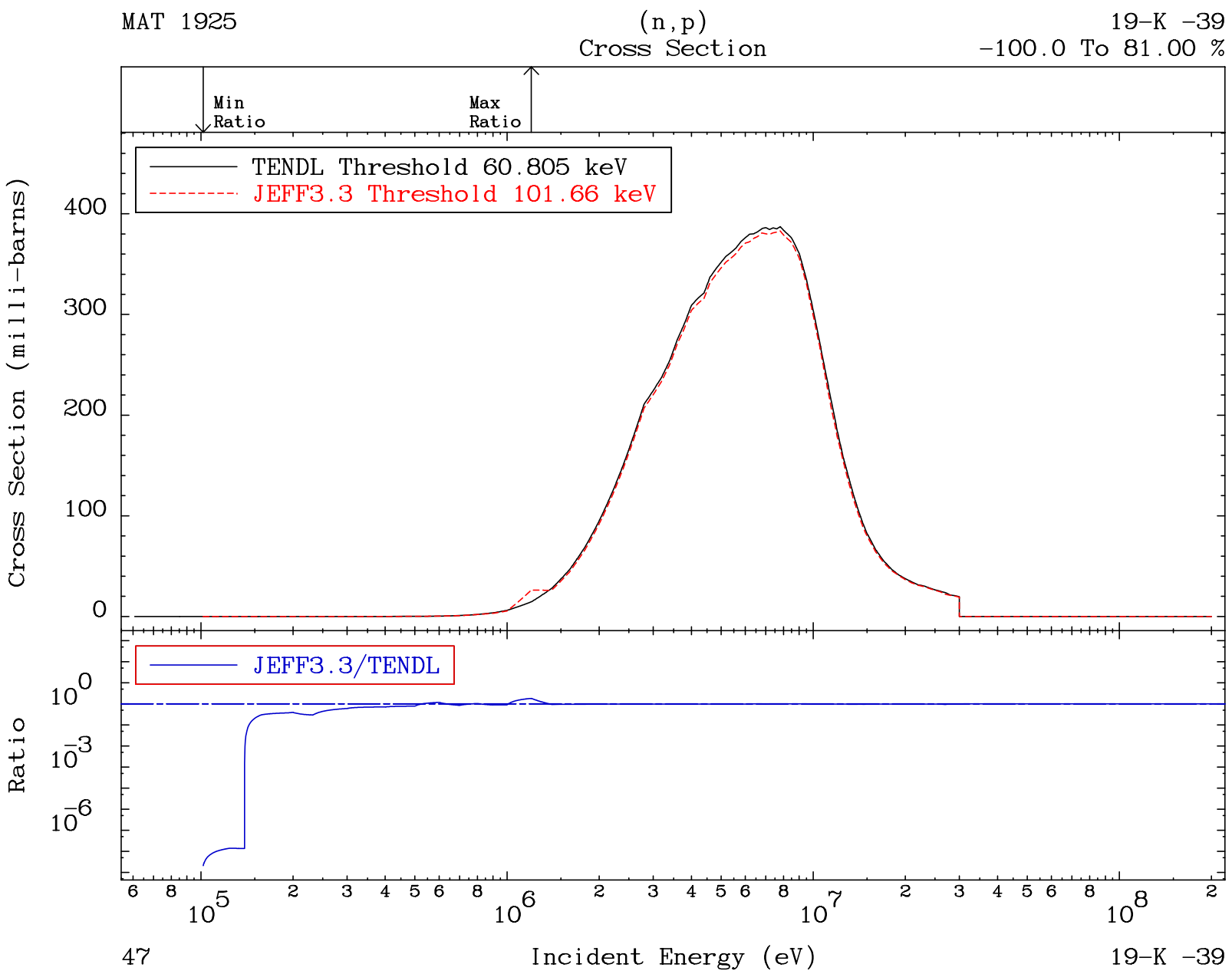

MAT 1925
MT= 75 (n,n') Level
Cross Section
19-K -39
-0.278 To 0.794 %
Max
Ratio
TENDL Threshold 5.3989 MeV
JEFF3.3 Threshold 5.3989 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
42
Incident Energy (eV)
19-K -39

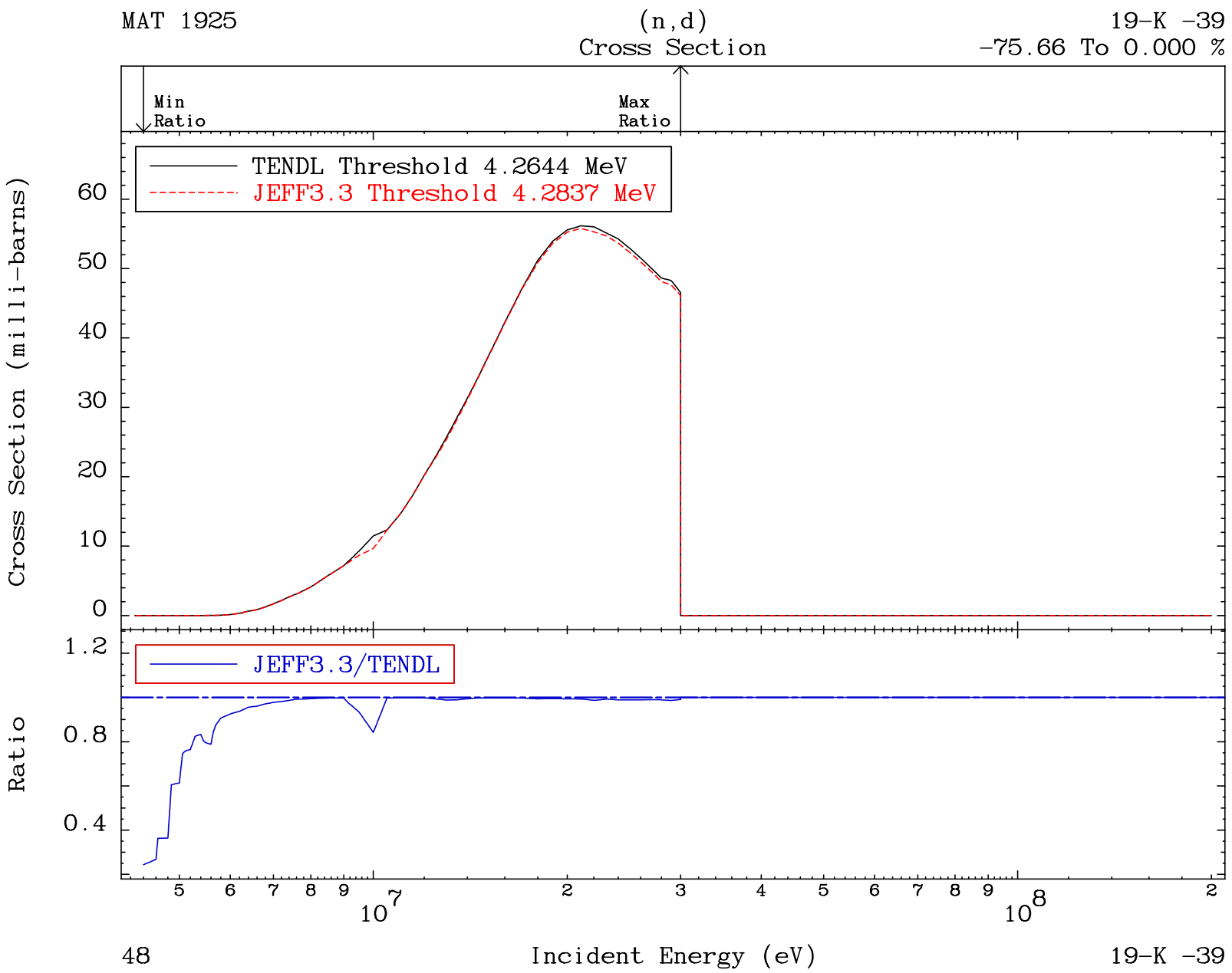

MAT 1925
MT= 76 (n,n') Level
Cross Section
19-K -39
-0.418 To 0.684 %
Max
Ratio
TENDL Threshold 5.4559 MeV
JEFF3.3 Threshold 5.4559 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
43
Incident Energy (eV)
19-K -39

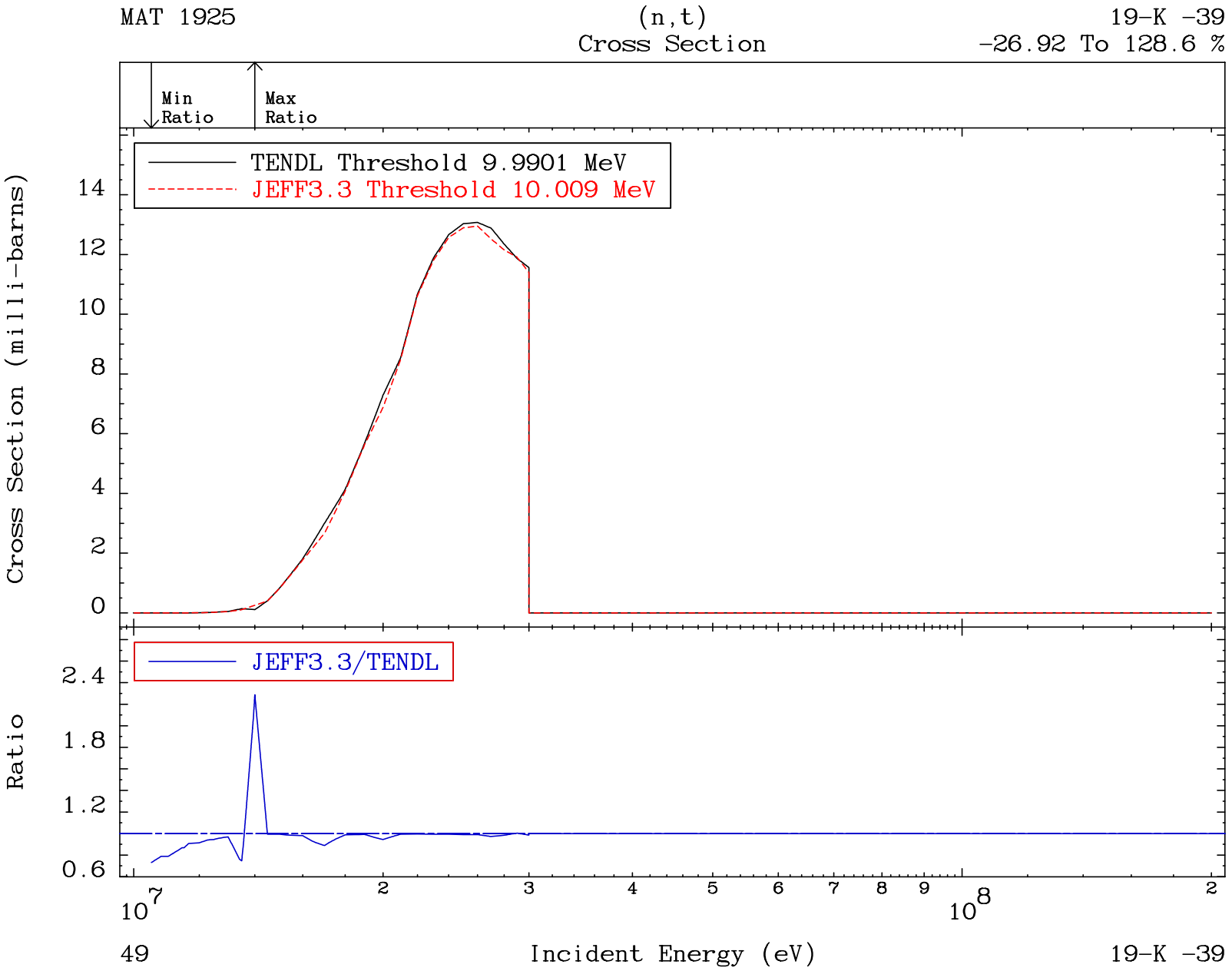

MAT 1925
MT= 77 (n,n') Level
Cross Section
19-K -39
0.000 To 1.293 %
Max Ratio
Min Ratio
TENDL Threshold 5.4926 MeV
JEFF3.3 Threshold 5.4926 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
19-K -39

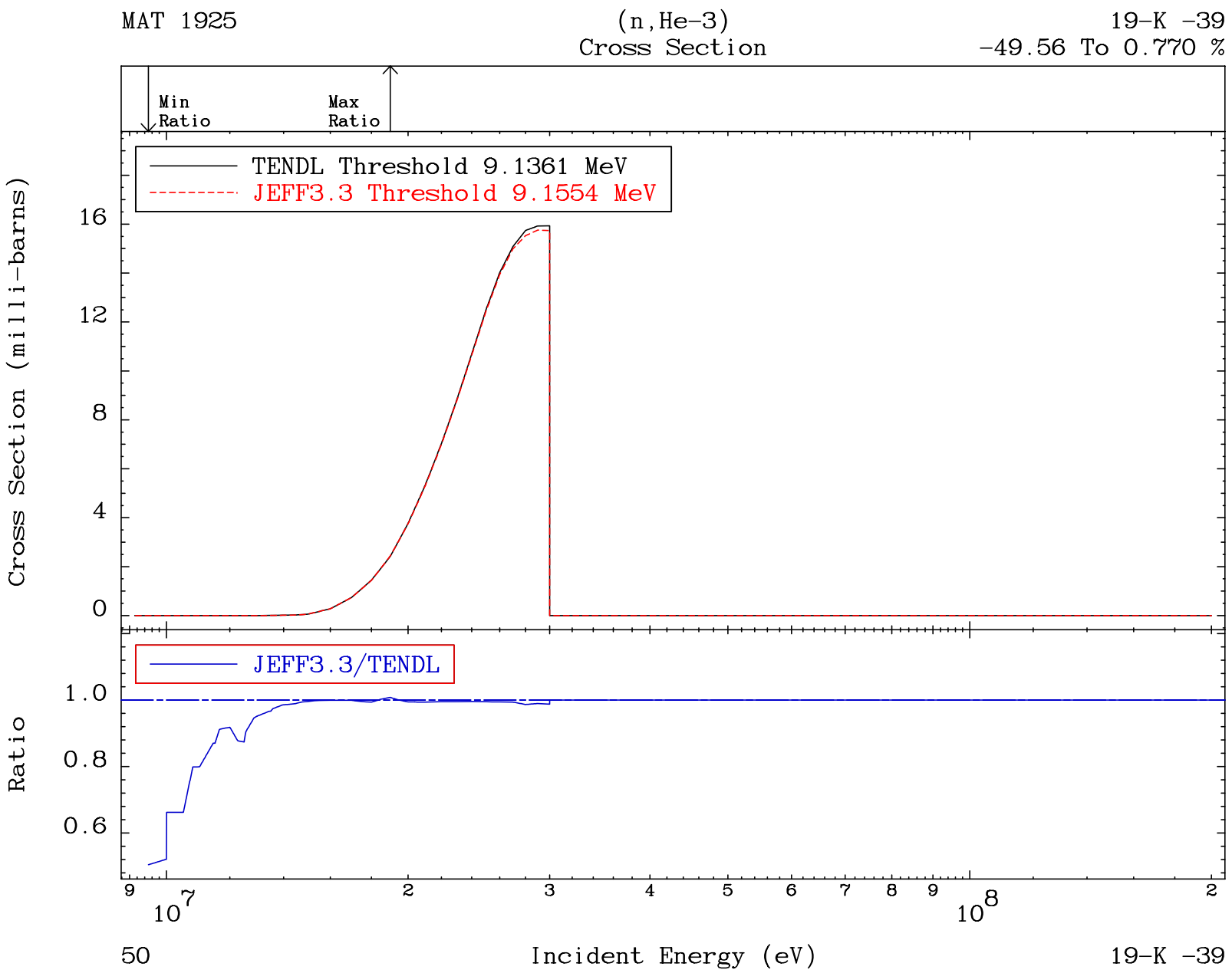

MAT 1925
(n,n') Continuum
Cross Section
19-K -39
-4.175 To 0.709 %
Max Ratio
Min Ratio
TENDL Threshold 5.4926 MeV
JEFF3.3 Threshold 5.4926 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.02
1.00
0.98
0.96
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
45
Incident Energy (eV)
19-K -39

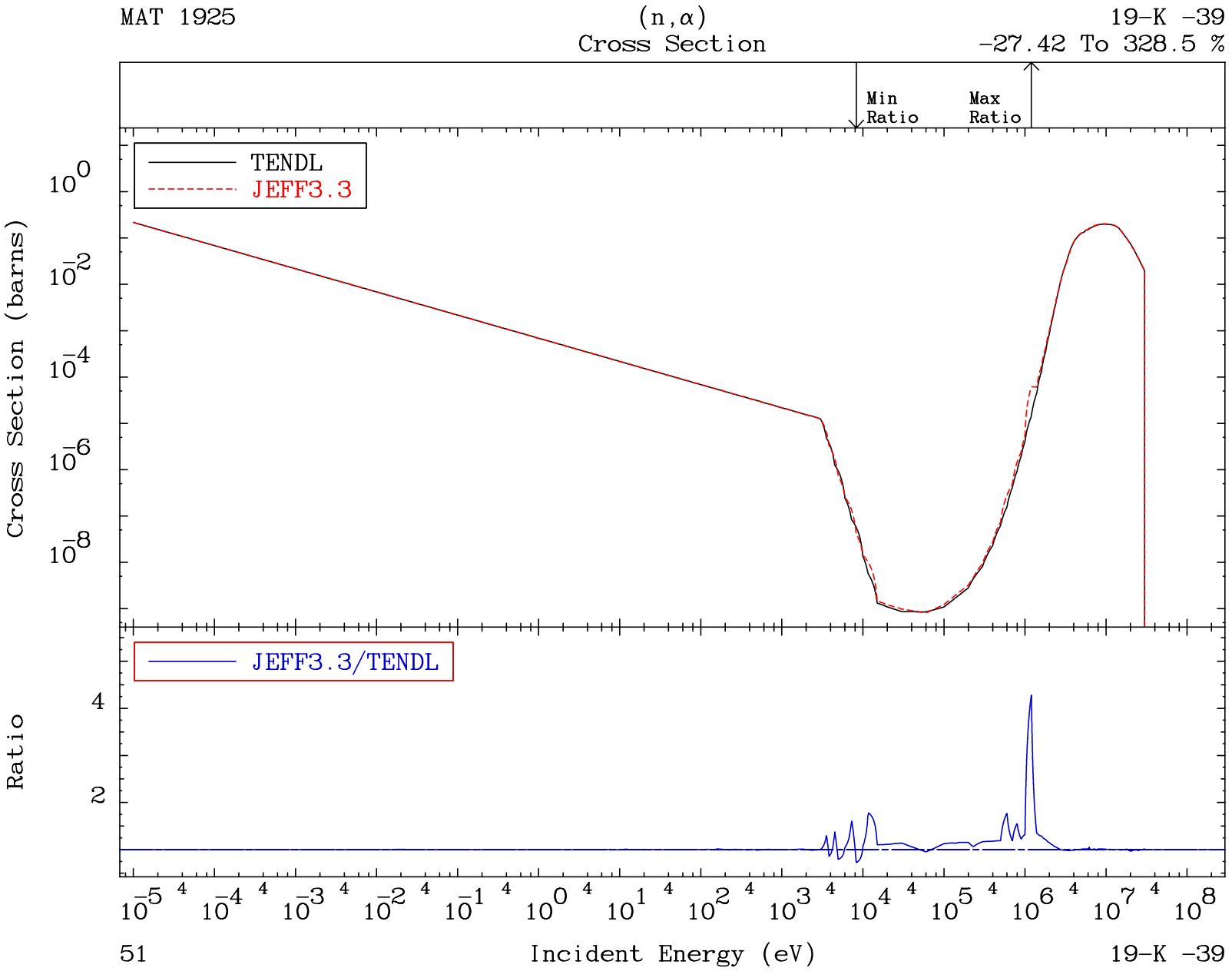

MAT 1925
(n,γ)
Cross Section
19-K -39
-100.0 To 8258. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
46
19-K -39

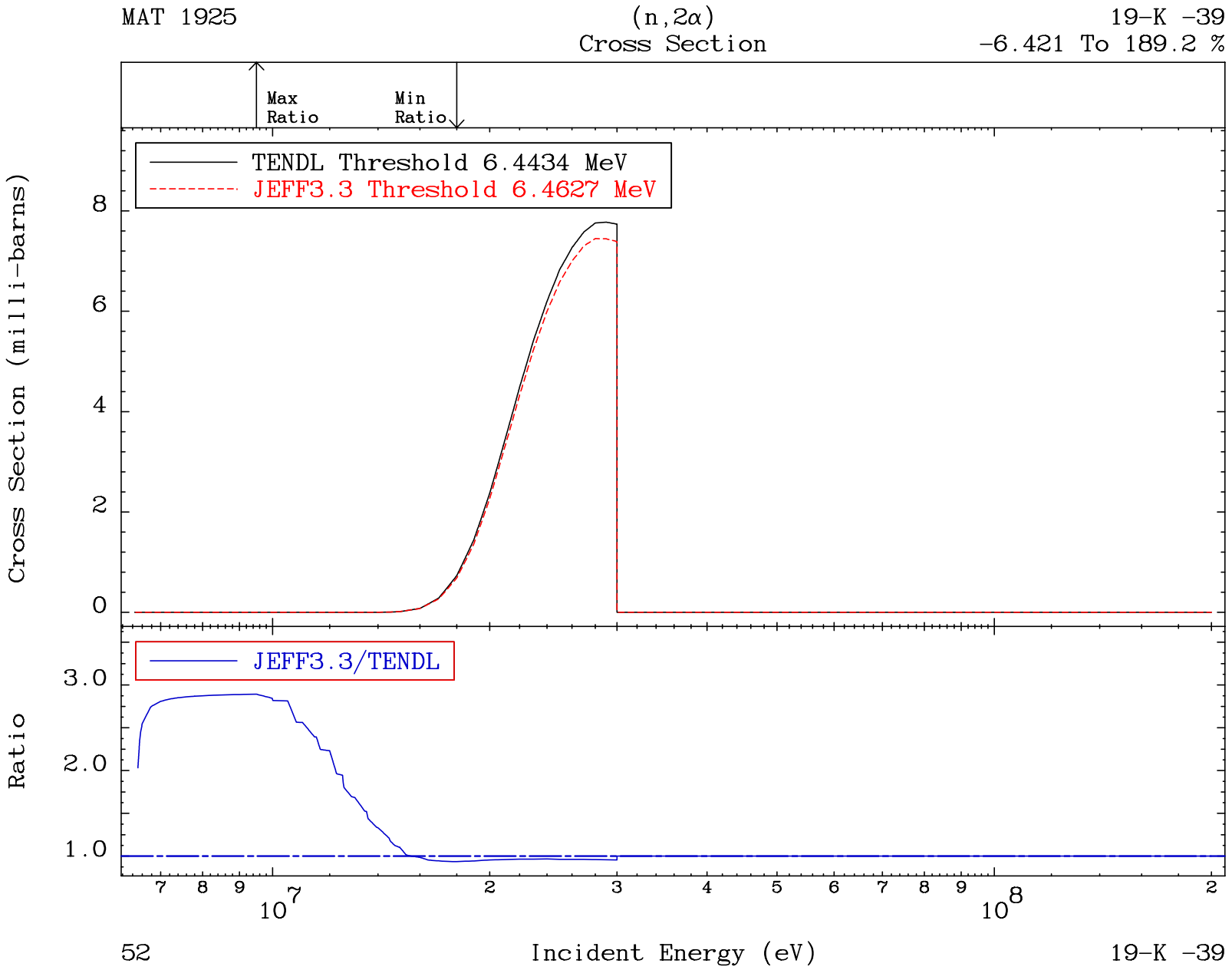

MAT 1925
(n,p)
Cross Section
19-K -39
-100.0 To 81.00 %
Min Ratio
Max Ratio
TENDL Threshold 60.805 keV
JEFF3.3 Threshold 101.66 keV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^0
10^-3
10^-6
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
47
Incident Energy (eV)
19-K -39

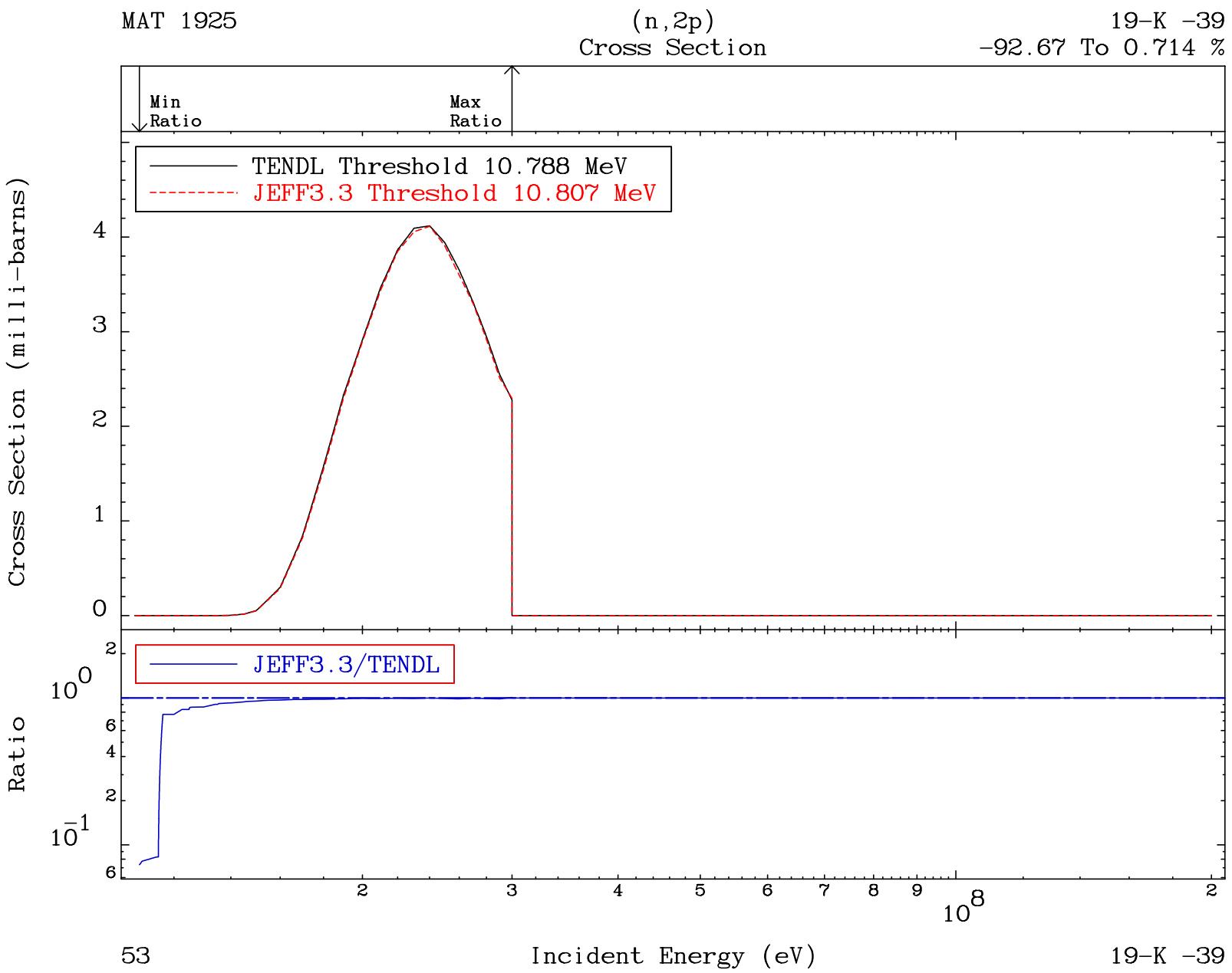

MAT 1925
(n,d)
Cross Section
19-K -39
-75.66 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 4.2644 MeV
JEFF3.3 Threshold 4.2837 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
19-K -39

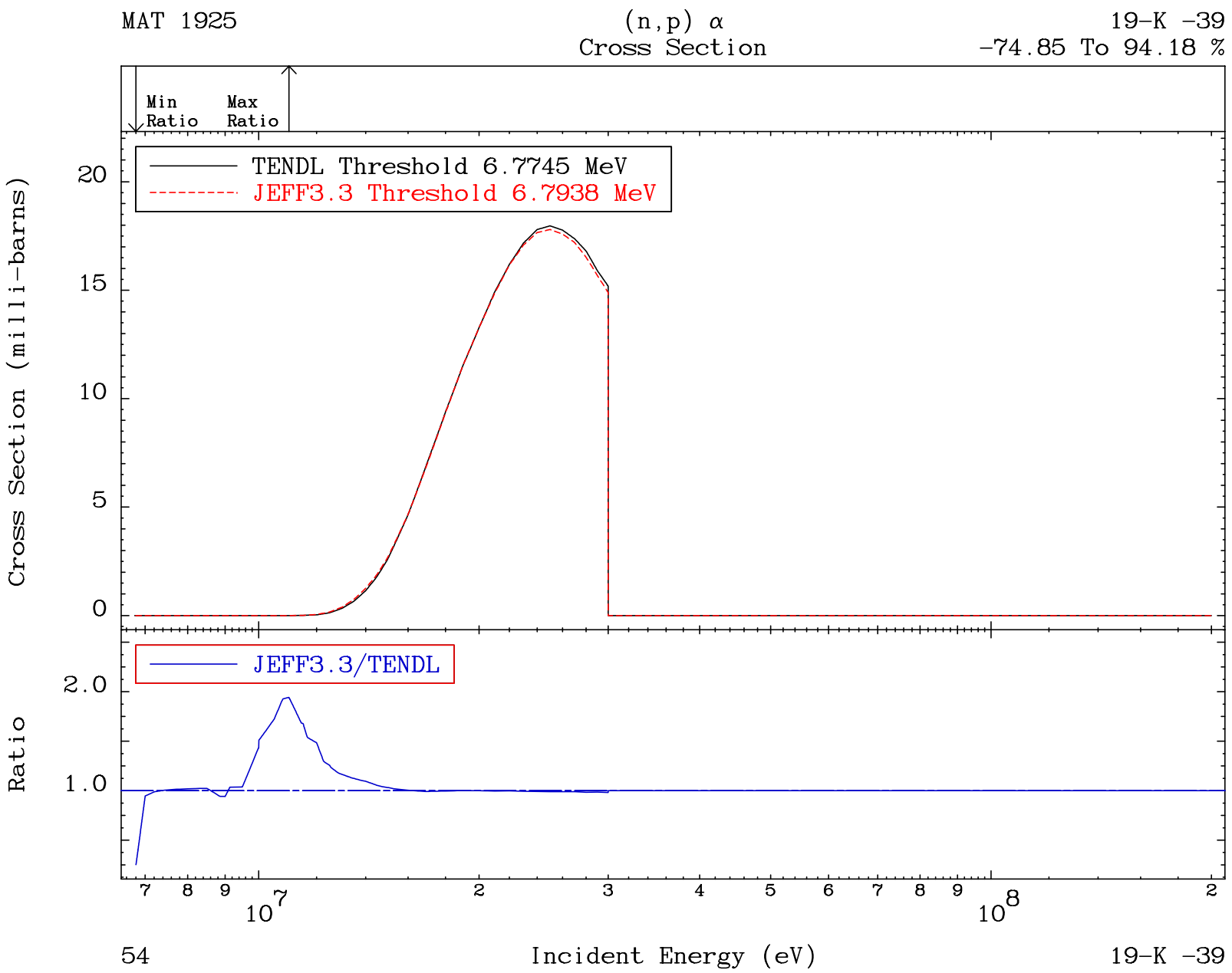

MAT 1925
(n,t)
Cross Section
19-K -39
-26.92 To 128.6 %
Min Ratio
Max Ratio
TENDL Threshold 9.9901 MeV
JEFF3.3 Threshold 10.009 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
2.4
1.8
1.2
0.6
10^7
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
19-K -39

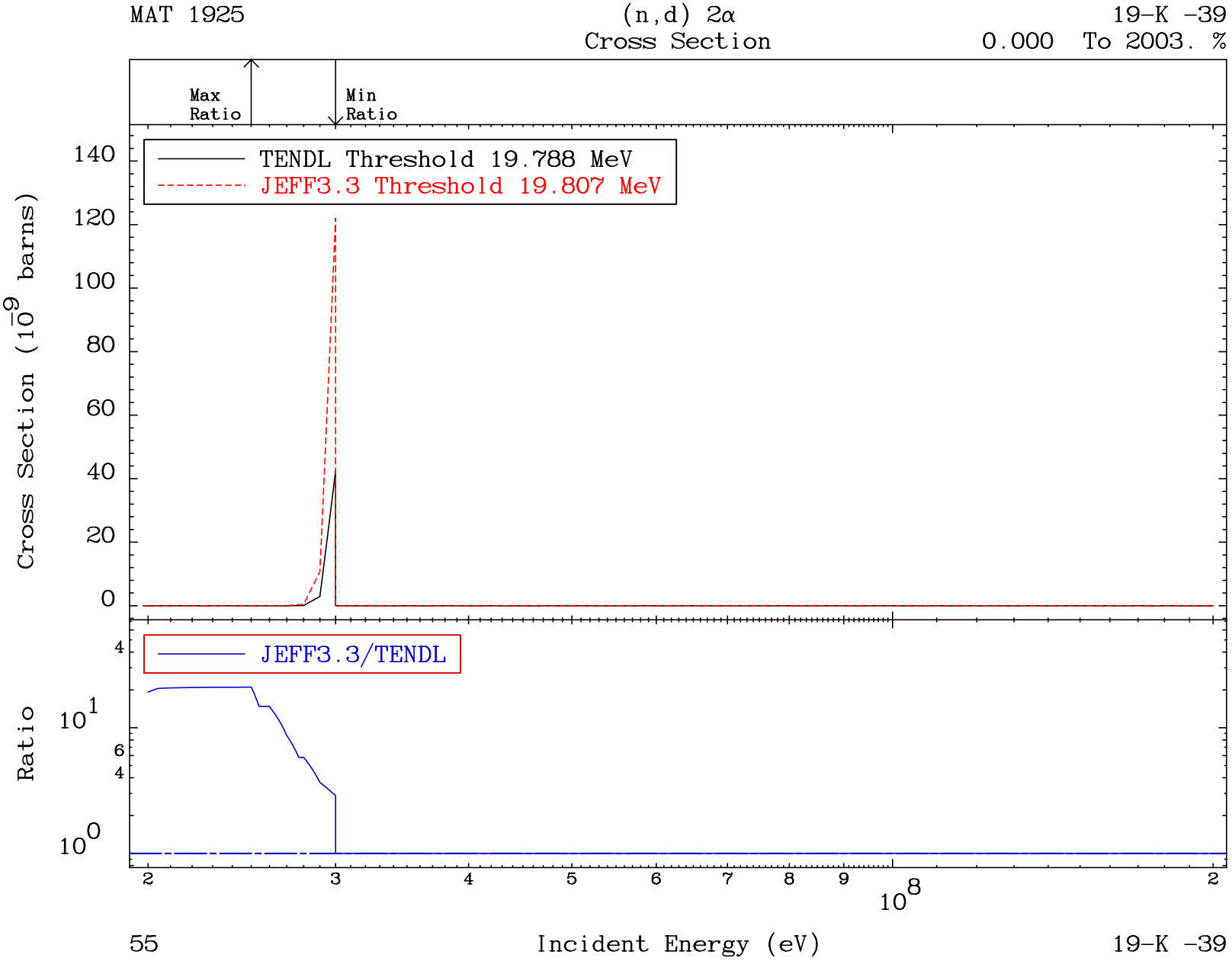

MAT 1925
(n,He-3)
Cross Section
19-K -39
-49.56 To 0.770 %
Min Ratio
Max Ratio
TENDL Threshold 9.1361 MeV
JEFF3.3 Threshold 9.1554 MeV
Cross Section (milli-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
1.0
0.8
0.6
9
10^7
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
19-K -39

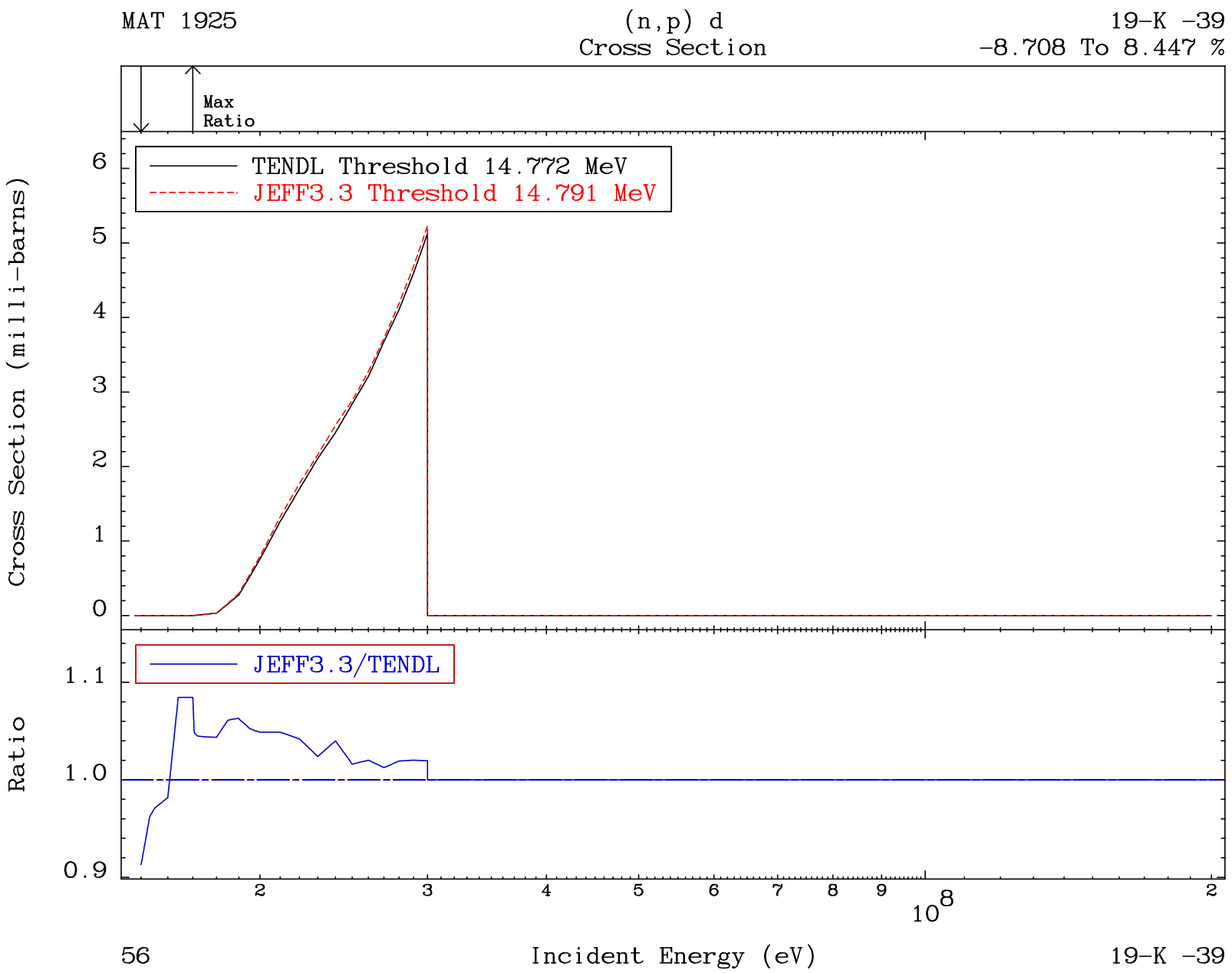

MAT 1925
(n,α)
Cross Section
19-K -39
-27.42 To 328.5 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
51
19-K -39

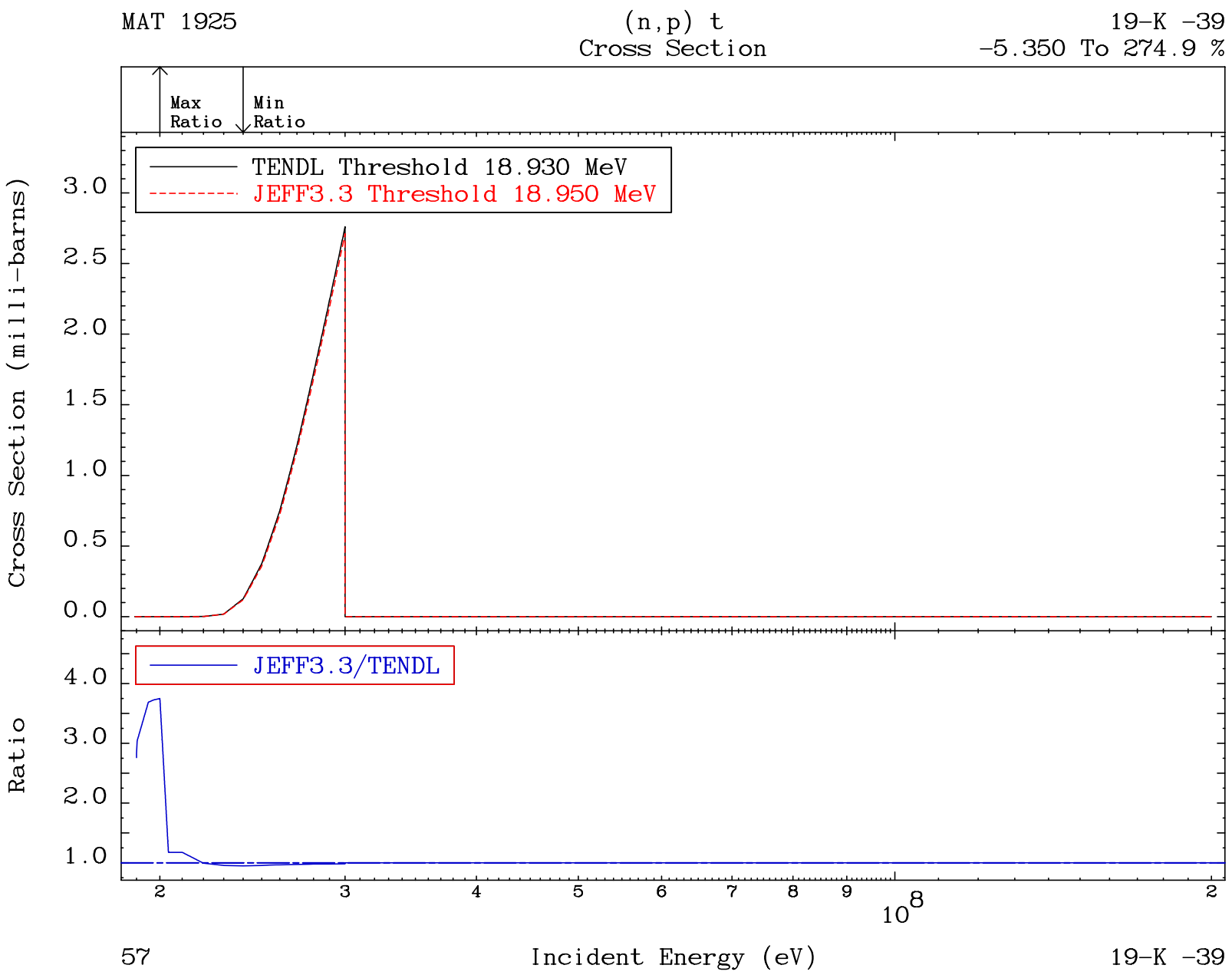

MAT 1925
(n,2α)
Cross Section
19-K -39
-6.421 To 189.2 %
Max Ratio
Min Ratio
TENDL Threshold 6.4434 MeV
JEFF3.3 Threshold 6.4627 MeV
Cross Section (milli-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
1.0
2.0
3.0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
19-K -39

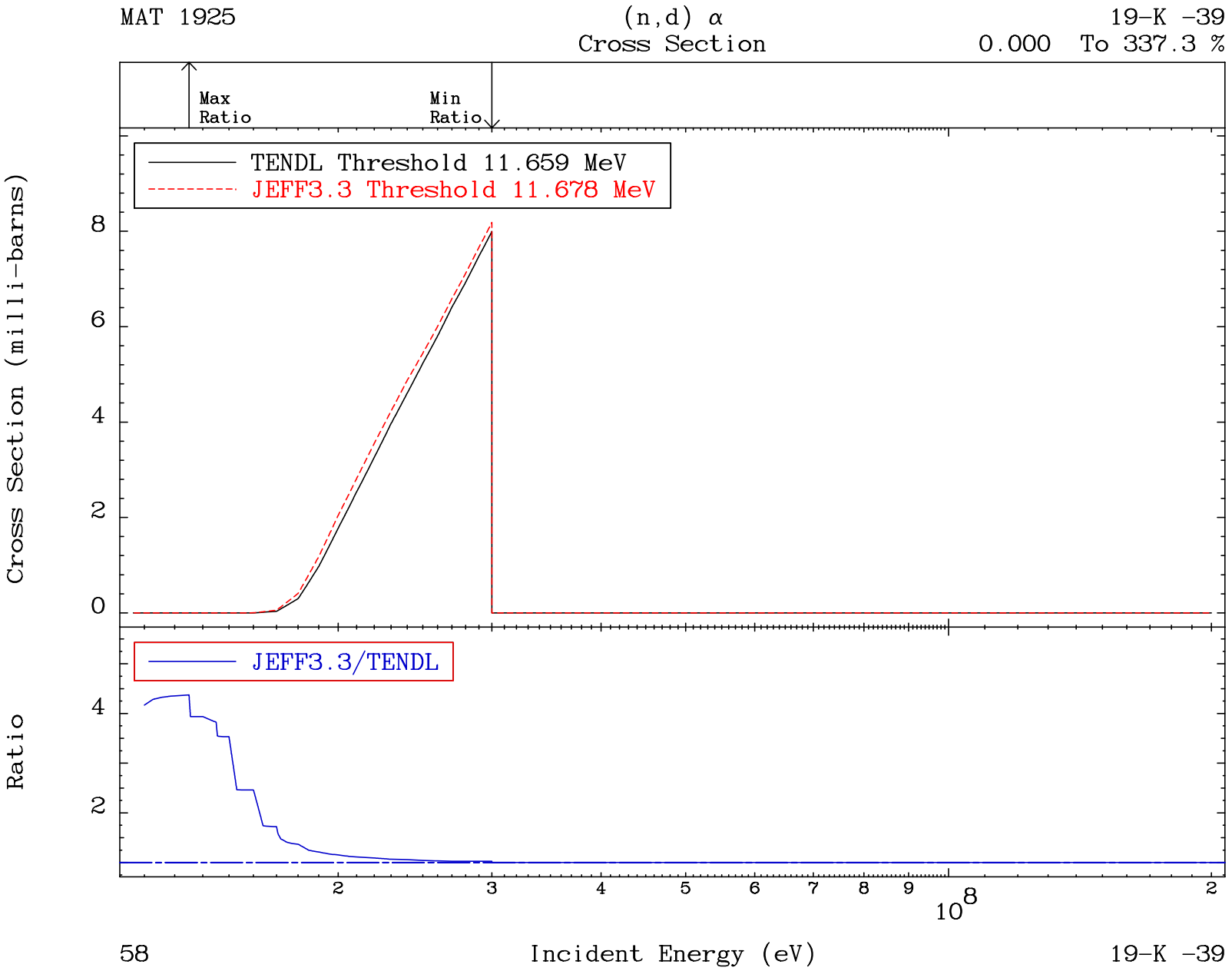

MAT 1925
(n,2p)
Cross Section
19-K -39
-92.67 To 0.714 %
Min Ratio
Max Ratio
TENDL Threshold 10.788 MeV
JEFF3.3 Threshold 10.807 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
53
19-K -39

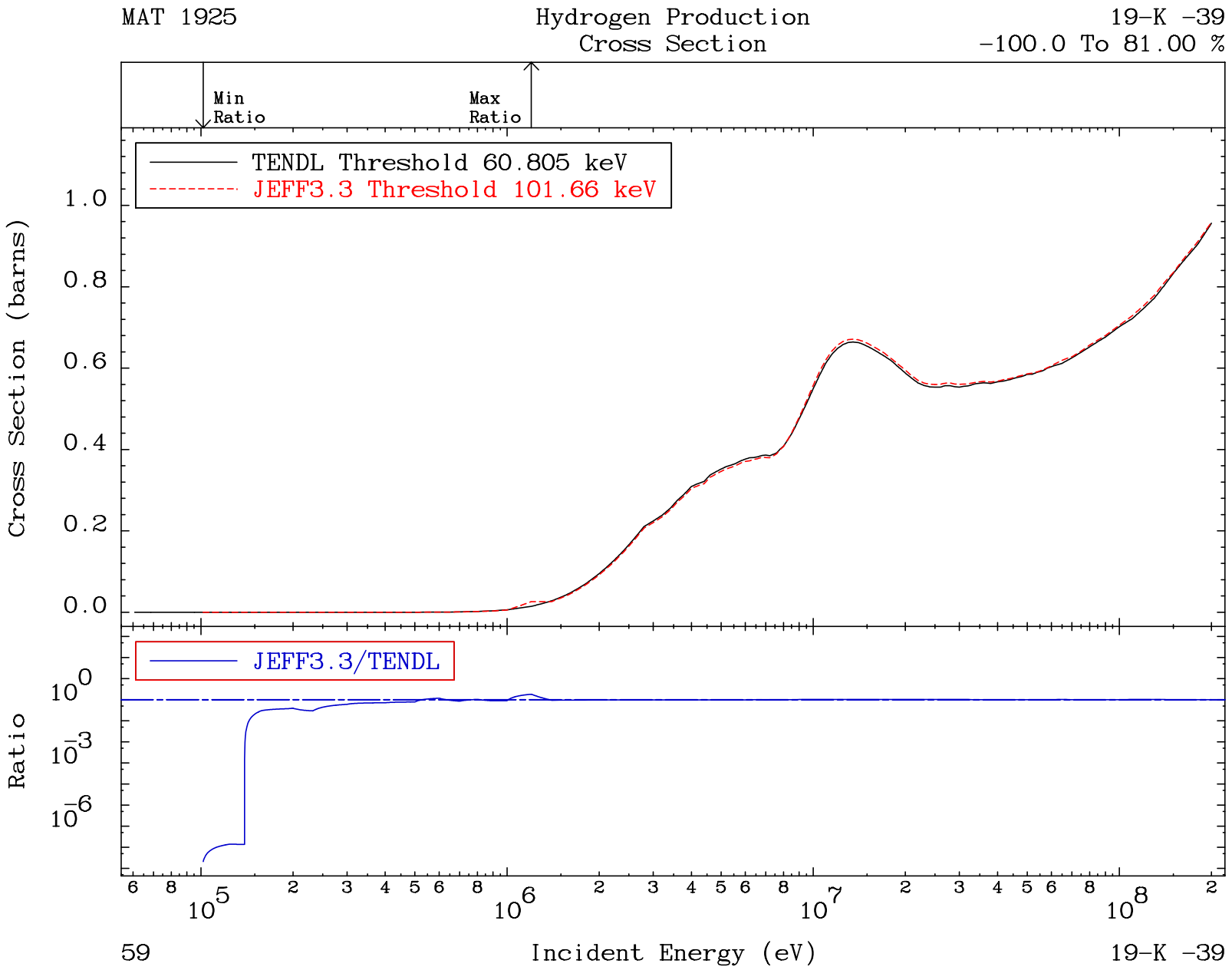

MAT 1925
(n,p) α
Cross Section
19-K -39
-74.85 To 94.18 %
Min Ratio
Max Ratio
TENDL Threshold 6.7745 MeV
JEFF3.3 Threshold 6.7938 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
2.0
1.0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
19-K -39

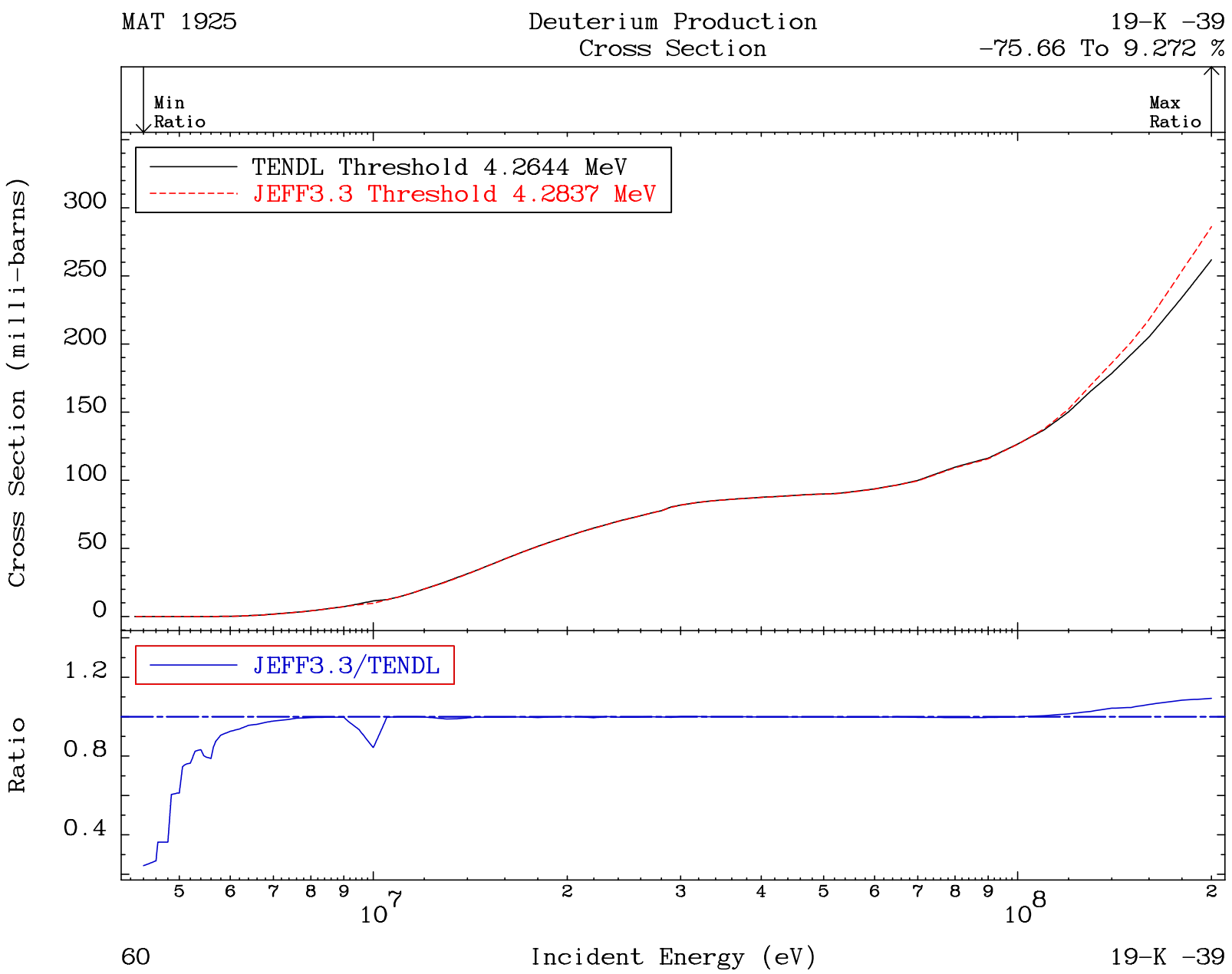

MAT 1925
(n,d) 2α
Cross Section
19-K -39
0.000 To 2003. %
Max Ratio
Min Ratio
TENDL Threshold 19.788 MeV
JEFF3.3 Threshold 19.807 MeV
Cross Section ($10^{-9}$ barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
4
$10^{1}$
6
4
$10^{0}$
2
3
4
5
6
7
8
9
$10^{8}$
2
55
Incident Energy (eV)
19-K -39

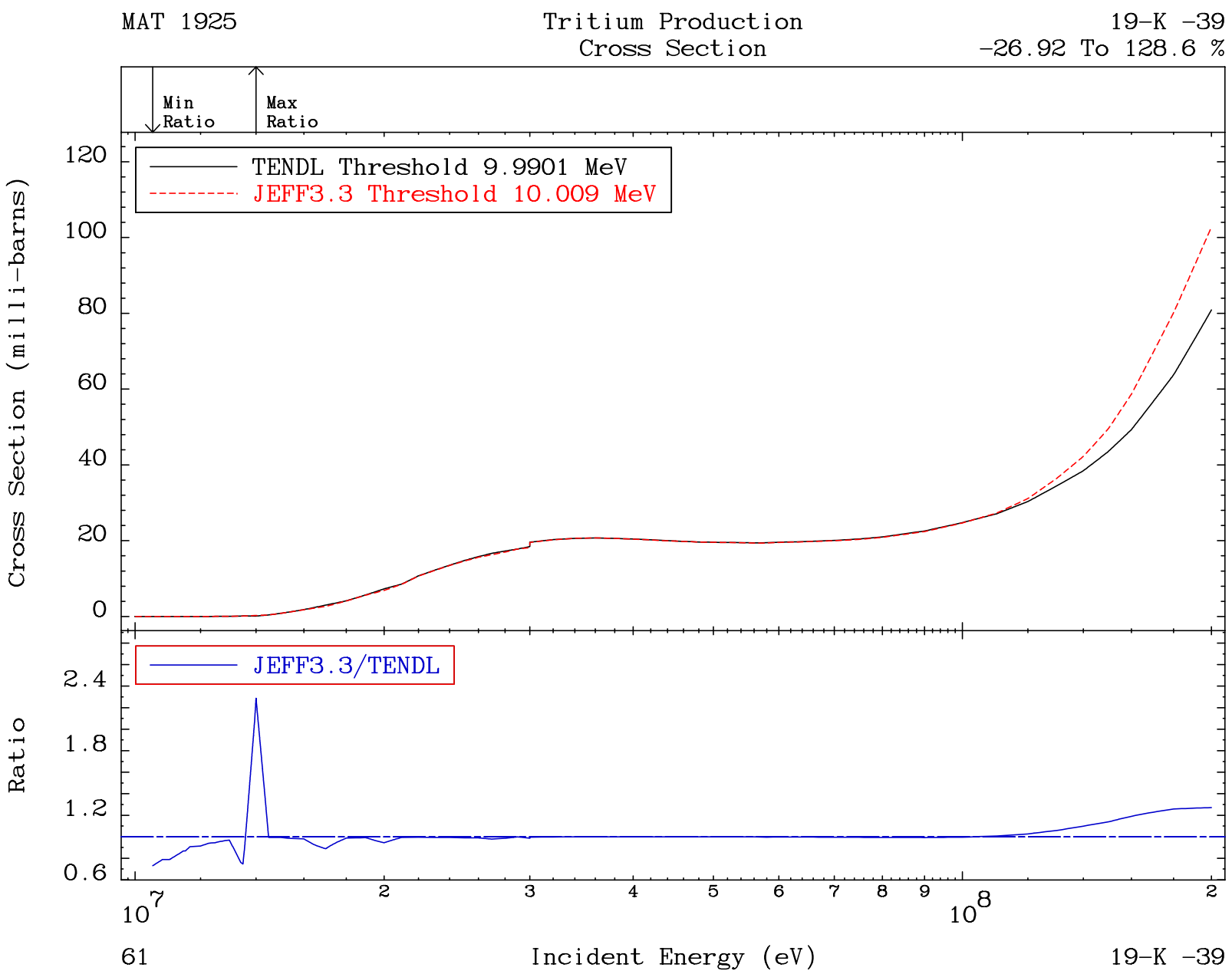

MAT 1925
(n,p) d
Cross Section
19-K -39
-8.708 To 8.447 %
Max
Ratio
TENDL Threshold 14.772 MeV
JEFF3.3 Threshold 14.791 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
0.9
1.0
1.1
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
19-K -39

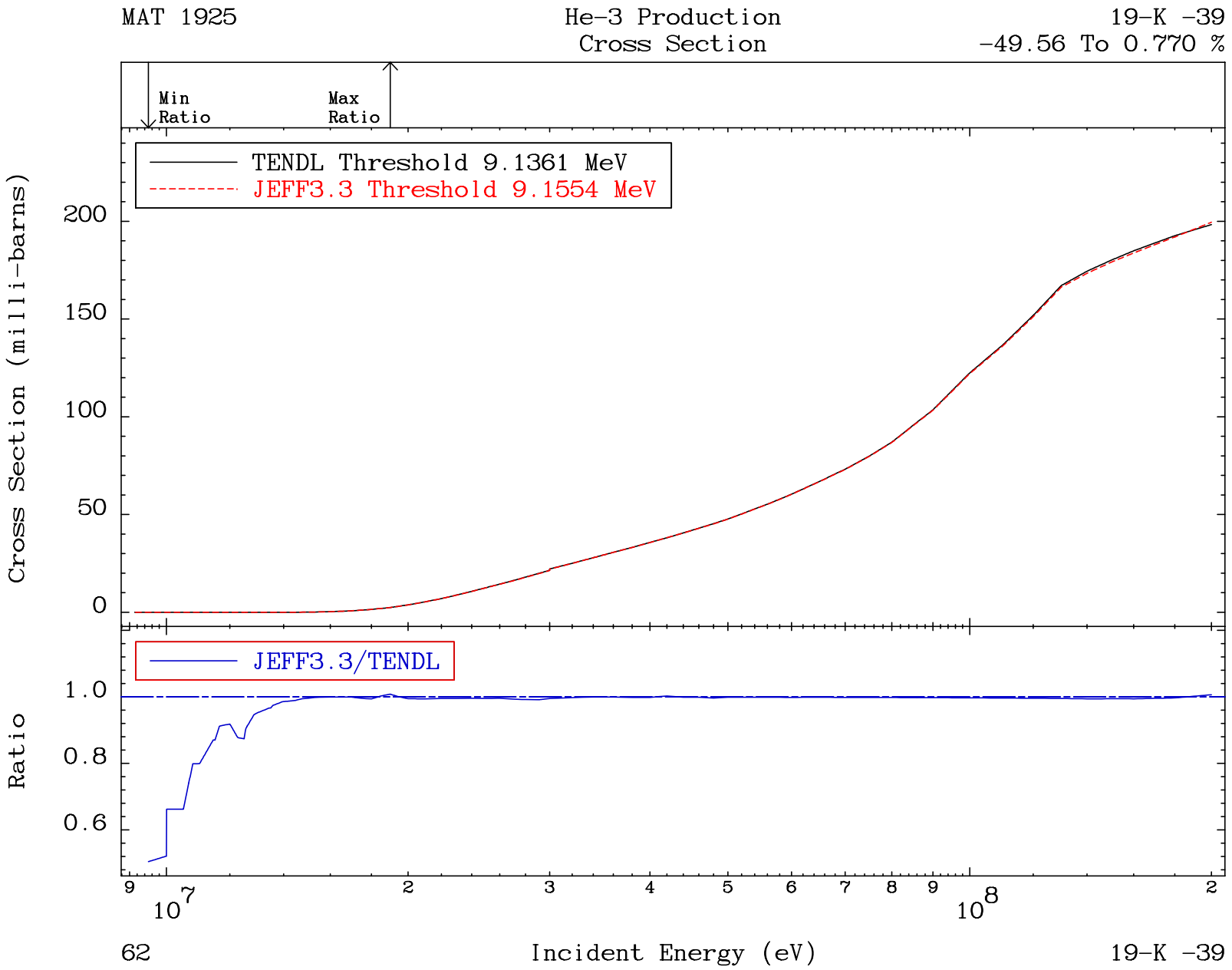

MAT 1925
(n,p) t
Cross Section
19-K -39
-5.350 To 274.9 %
Max Ratio
Min Ratio
TENDL Threshold 18.930 MeV
JEFF3.3 Threshold 18.950 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
19-K -39

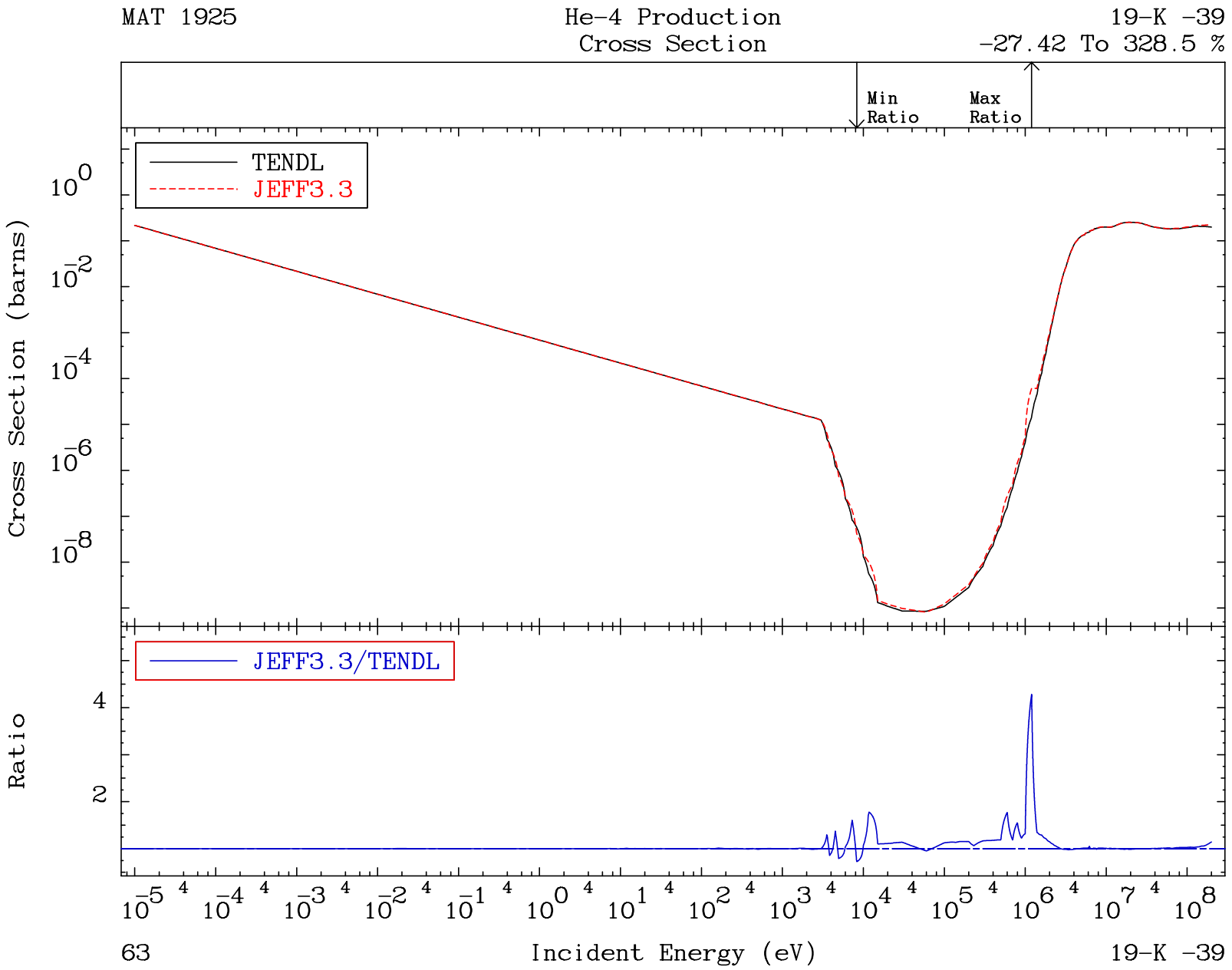

MAT 1925
(n,d) α
Cross Section
19-K -39
0.000 To 337.3 %
Max Ratio
Min Ratio
TENDL Threshold 11.659 MeV
JEFF3.3 Threshold 11.678 MeV
Cross Section (milli-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
2
4
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
19-K -39

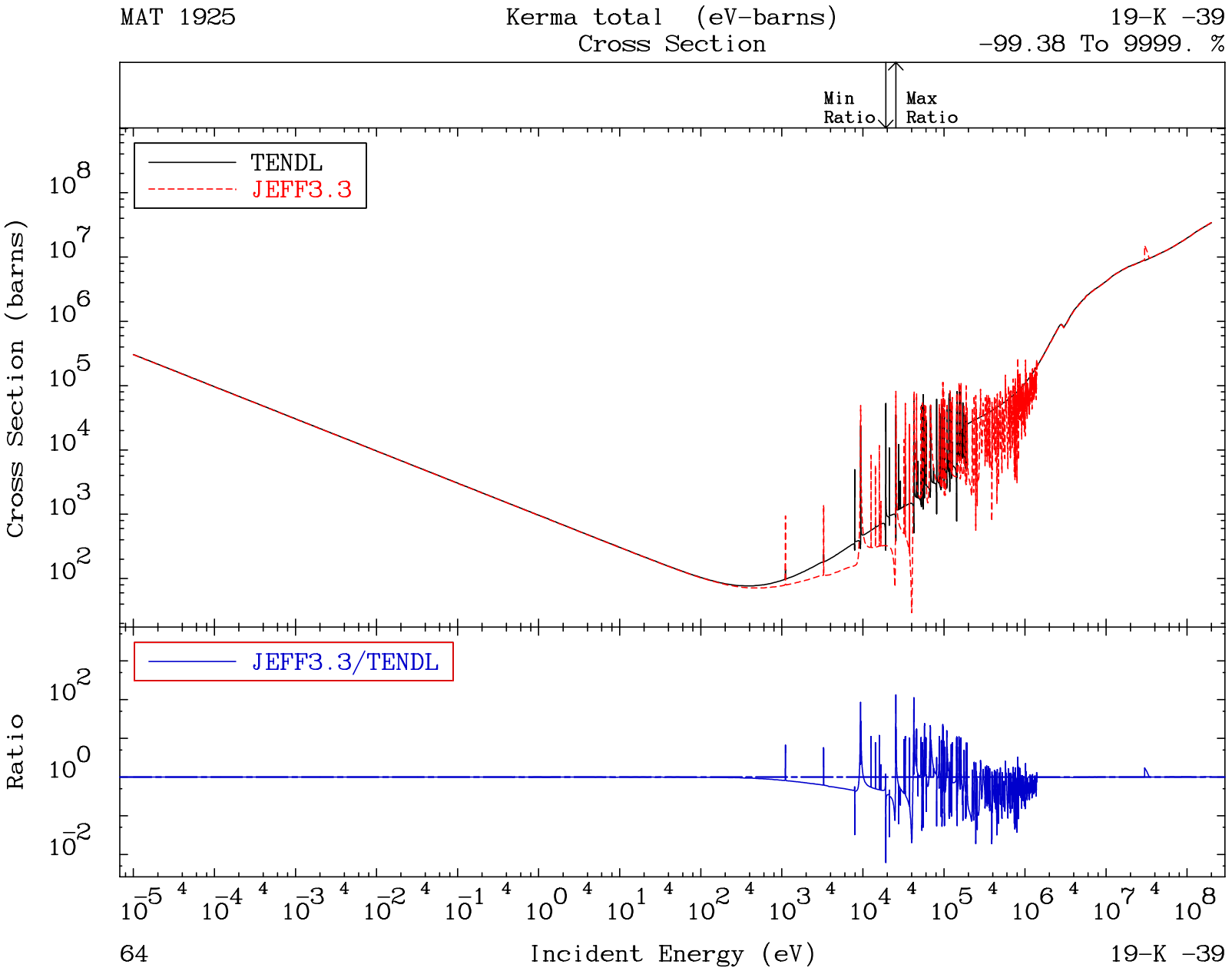

MAT 1925
Hydrogen Production
Cross Section
19-K -39
-100.0 To 81.00 %
Min Ratio
Max Ratio
TENDL Threshold 60.805 keV
JEFF3.3 Threshold 101.66 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^0
10^-3
10^-6
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
59
Incident Energy (eV)
19-K -39

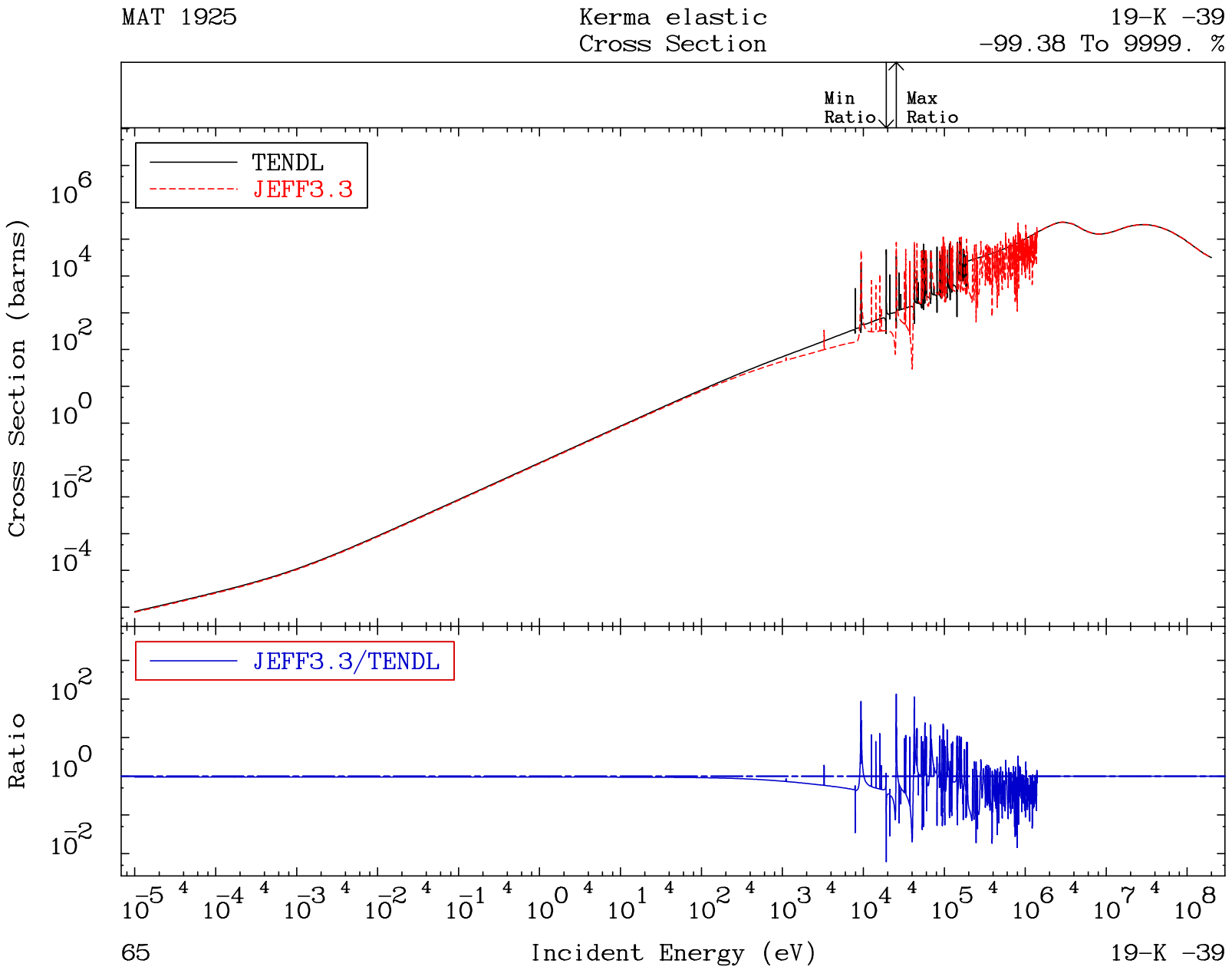

MAT 1925
Deuterium Production
Cross Section
19-K -39
-75.66 To 9.272 %
Min
Ratio
Max
Ratio
TENDL Threshold 4.2644 MeV
JEFF3.3 Threshold 4.2837 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
60
Incident Energy (eV)
19-K -39

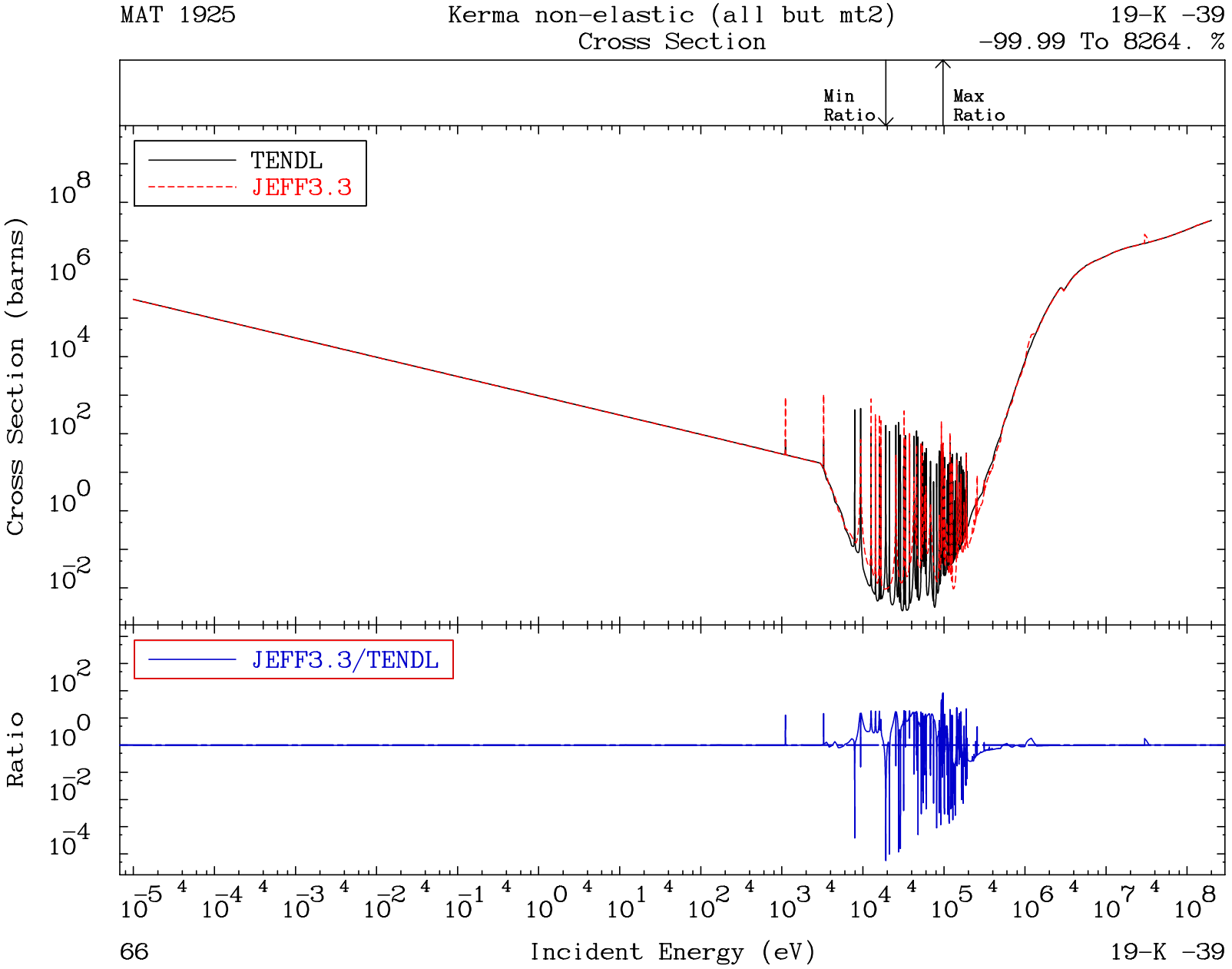

MAT 1925
Tritium Production
Cross Section
19-K -39
-26.92 To 128.6 %
Min Ratio
Max Ratio
TENDL Threshold 9.9901 MeV
JEFF3.3 Threshold 10.009 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
2.4
1.8
1.2
0.6
10^7
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
19-K -39

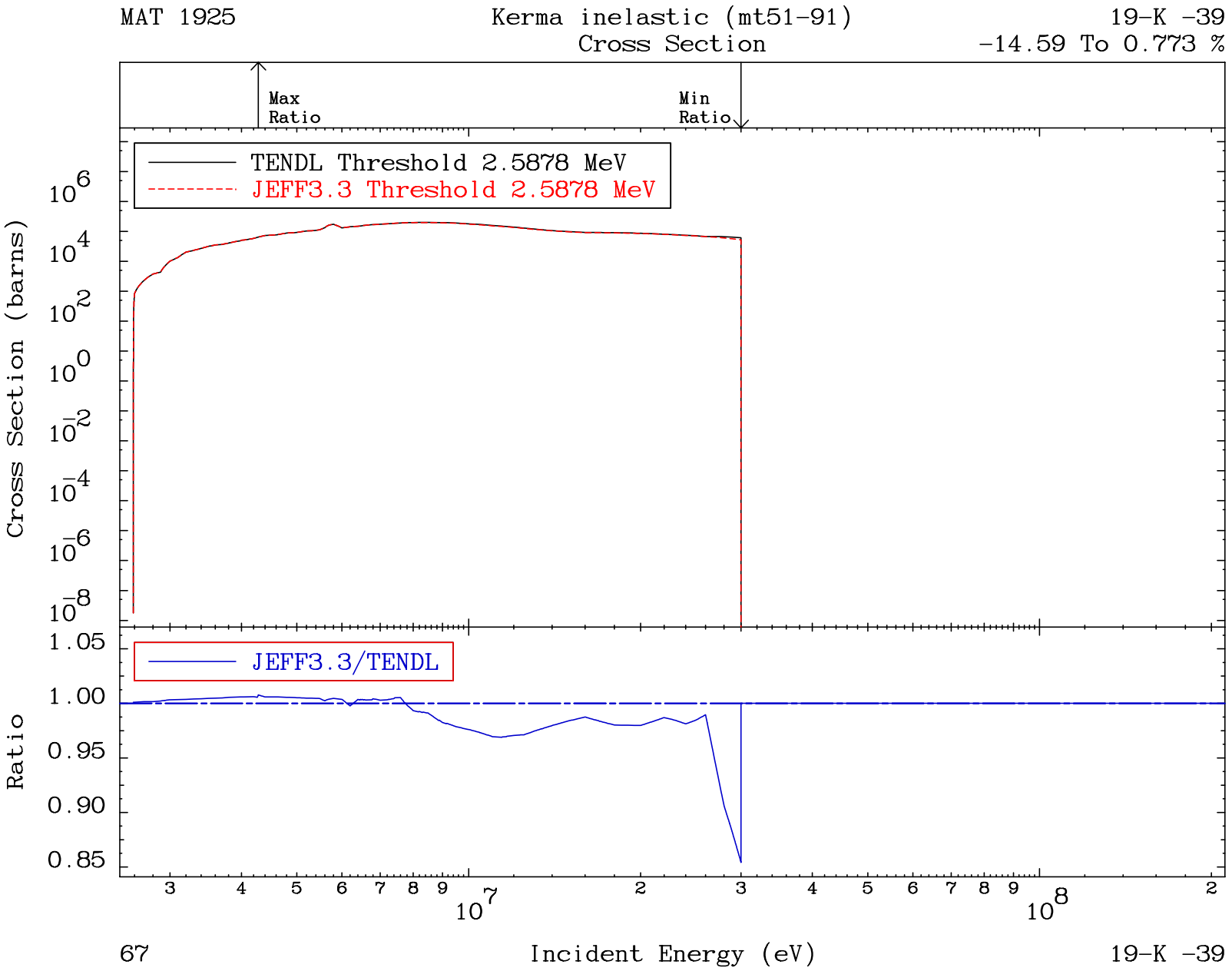

MAT 1925
He-3 Production
Cross Section
19-K -39
-49.56 To 0.770 %
Min Ratio
Max Ratio
TENDL Threshold 9.1361 MeV
JEFF3.3 Threshold 9.1554 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.0
0.8
0.6
9
10^7
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
19-K -39

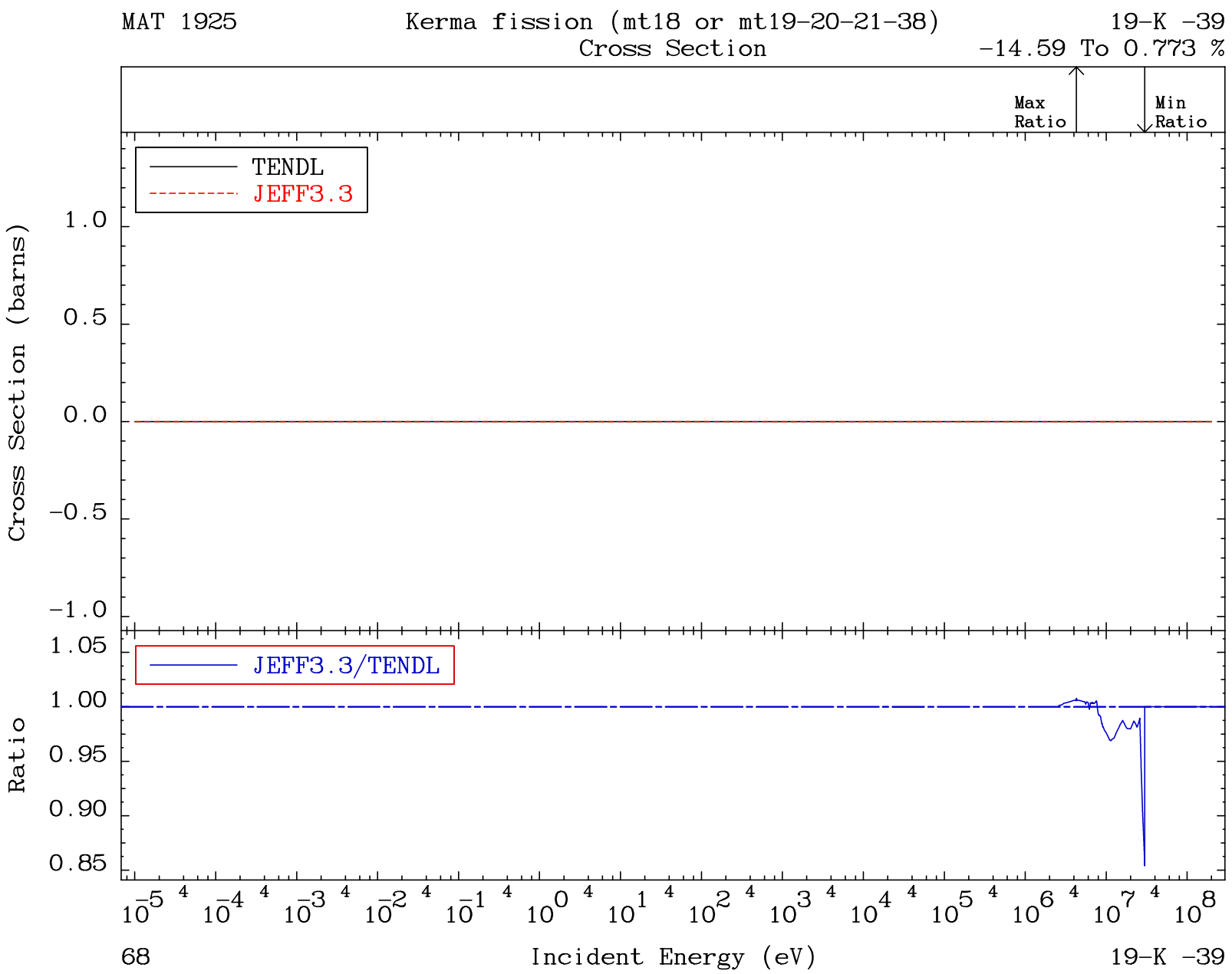

MAT 1925
He-4 Production
Cross Section
19-K -39
-27.42 To 328.5 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
63
19-K -39

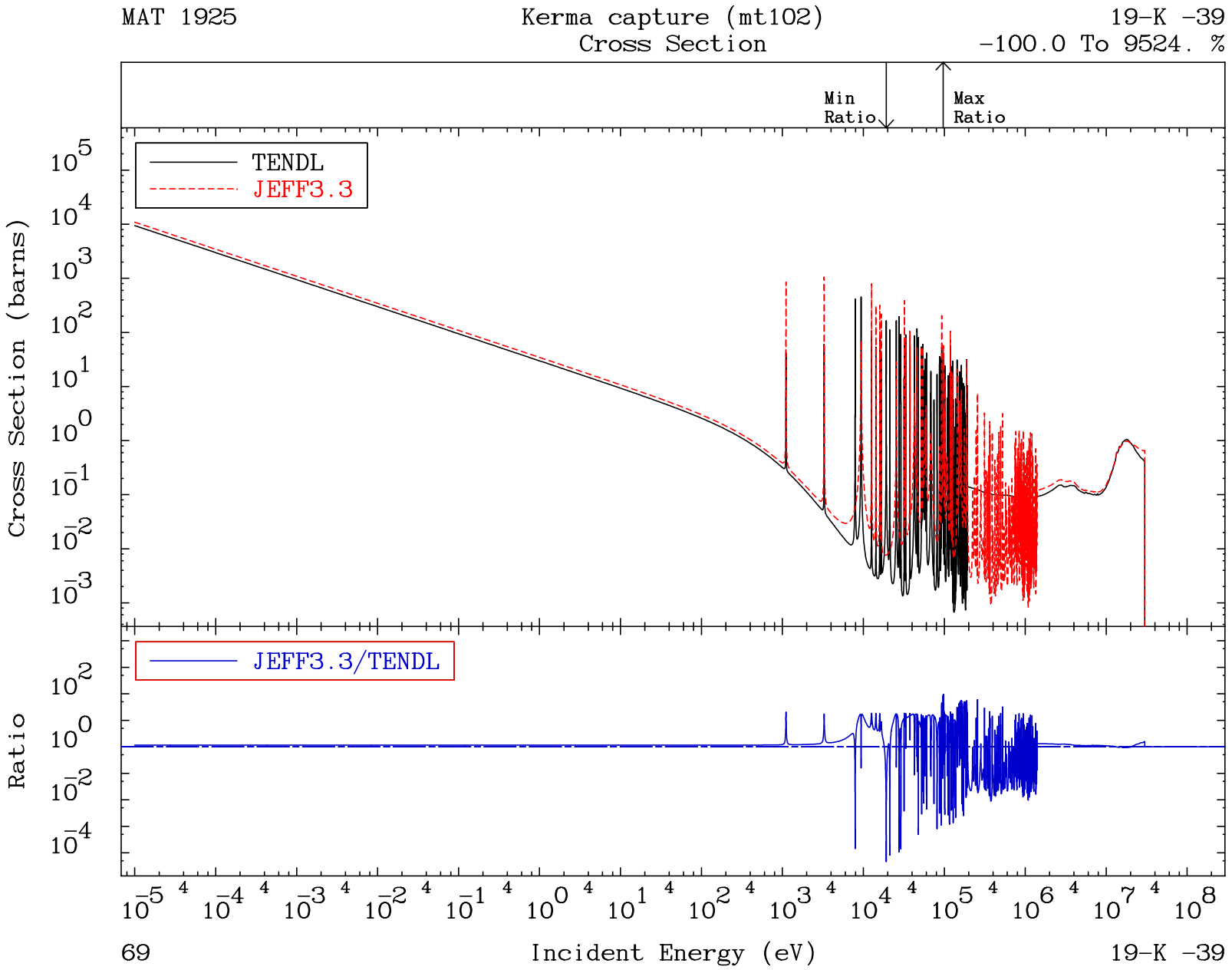

MAT 1925
Kerma total (eV-barns)
Cross Section
19-K -39
-99.38 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
19-K -39

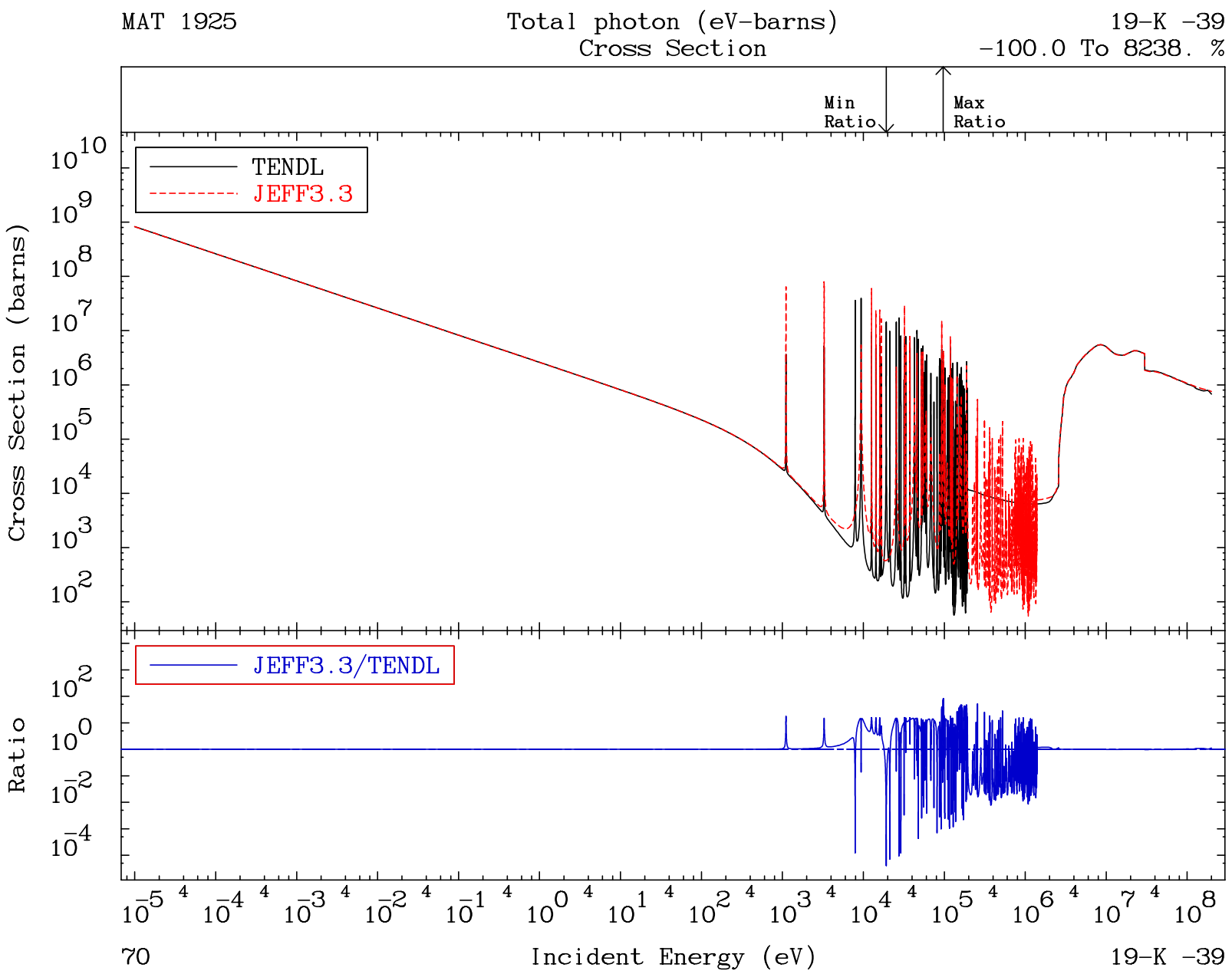

MAT 1925
Kerma elastic
Cross Section
19-K -39
-99.38 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
19-K -39

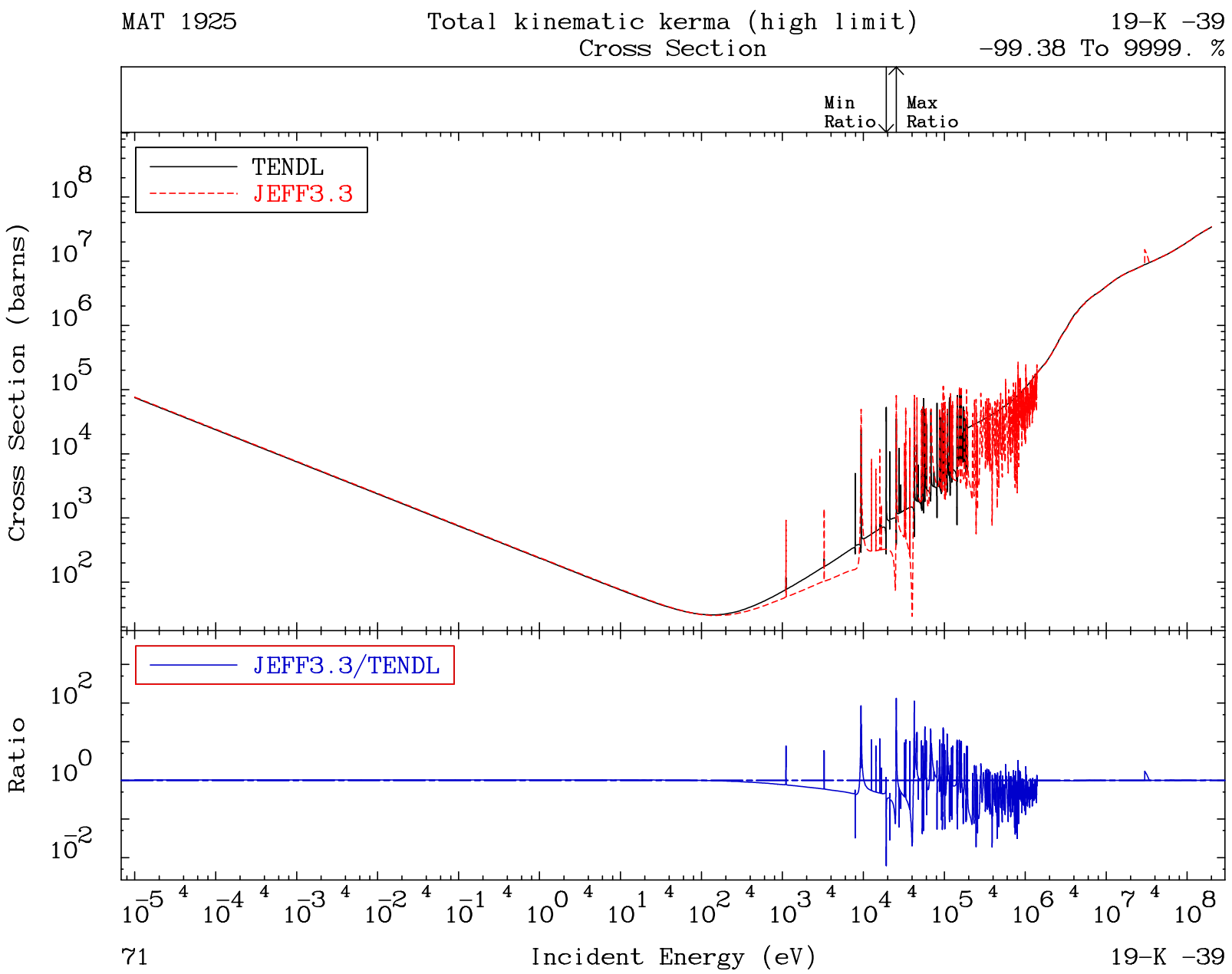

MAT 1925
Kerma non-elastic (all but mt2)
Cross Section
19-K -39
-99.99 To 8264. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
19-K -39

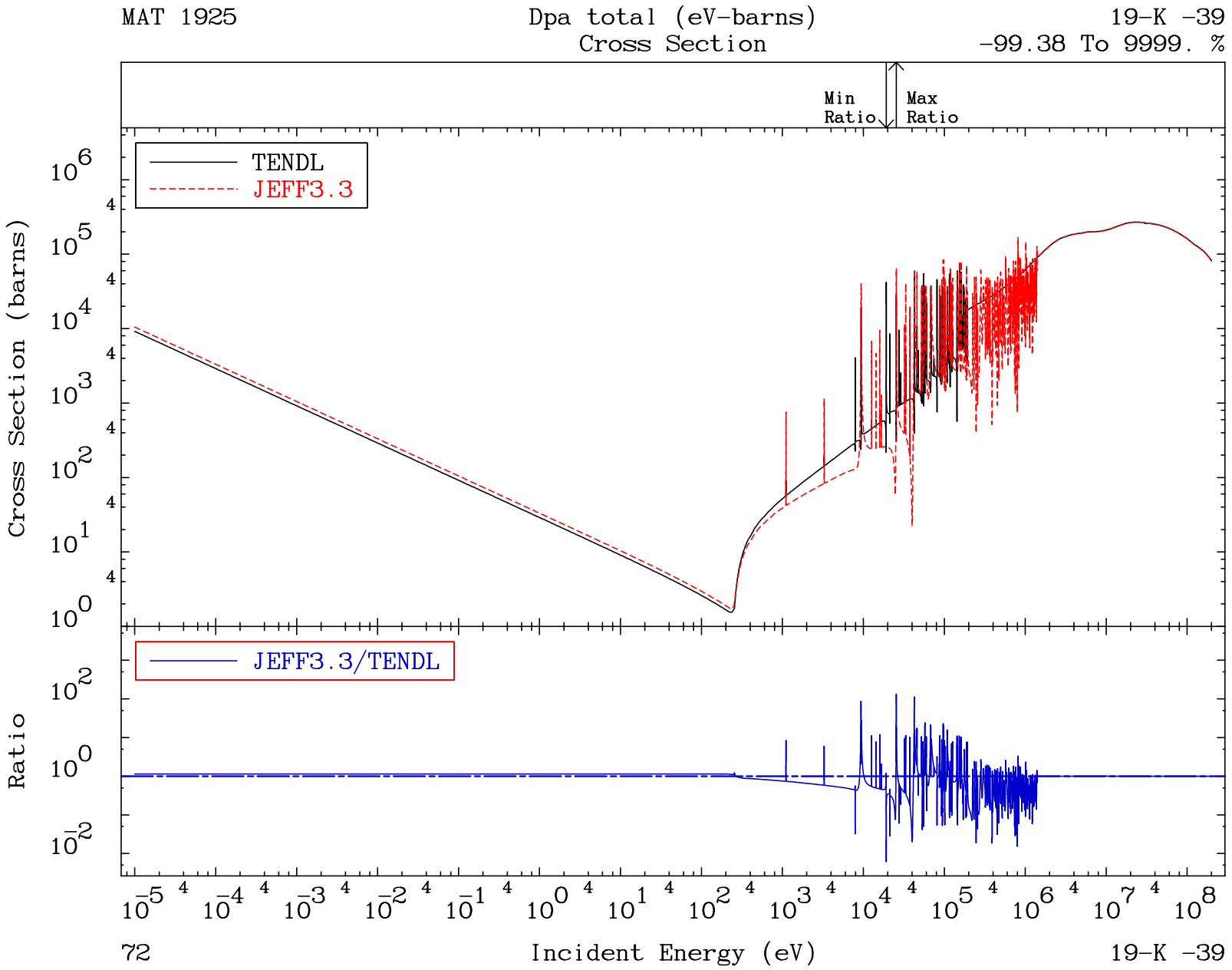

MAT 1925
Kerma inelastic (mt51-91)
Cross Section
19-K -39
-14.59 To 0.773 %
Max Ratio
Min Ratio
TENDL Threshold 2.5878 MeV
JEFF3.3 Threshold 2.5878 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
67
19-K -39

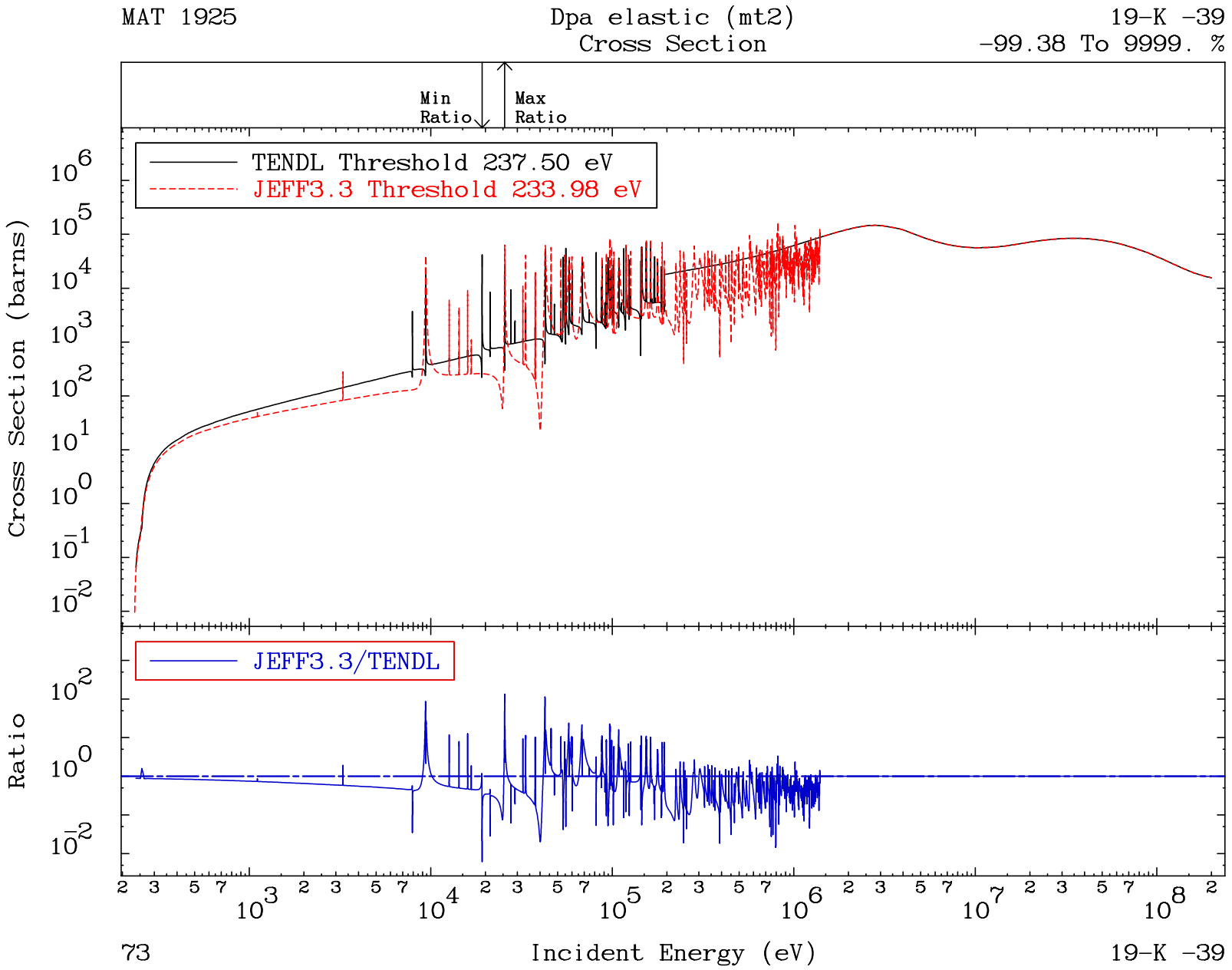

MAT 1925
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
19-K -39
-14.59 To 0.773 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
0.90
0.85
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
68
Incident Energy (eV)
19-K -39

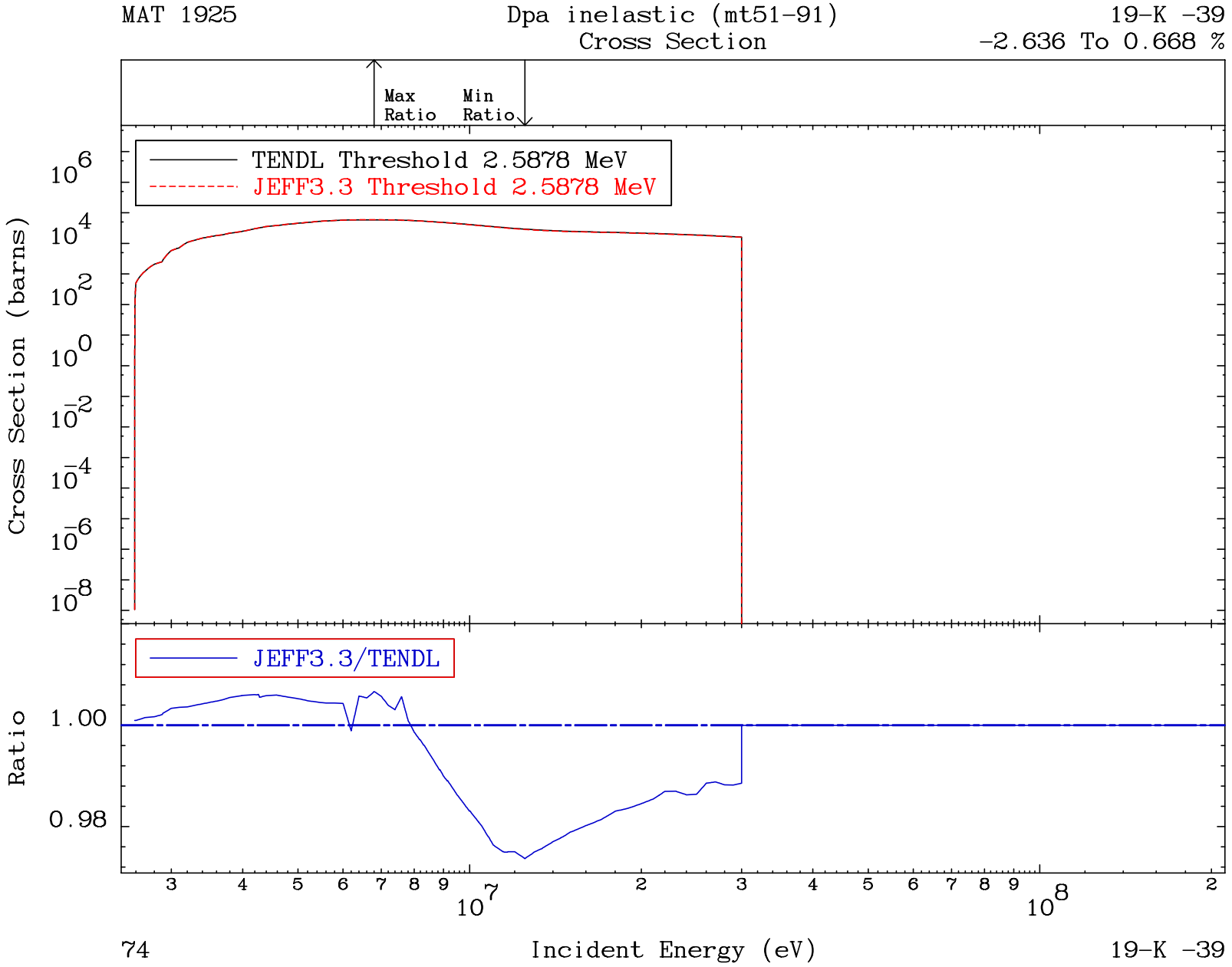

MAT 1925
Kerma capture (mt102)
Cross Section
19-K -39
-100.0 To 9524. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
19-K -39

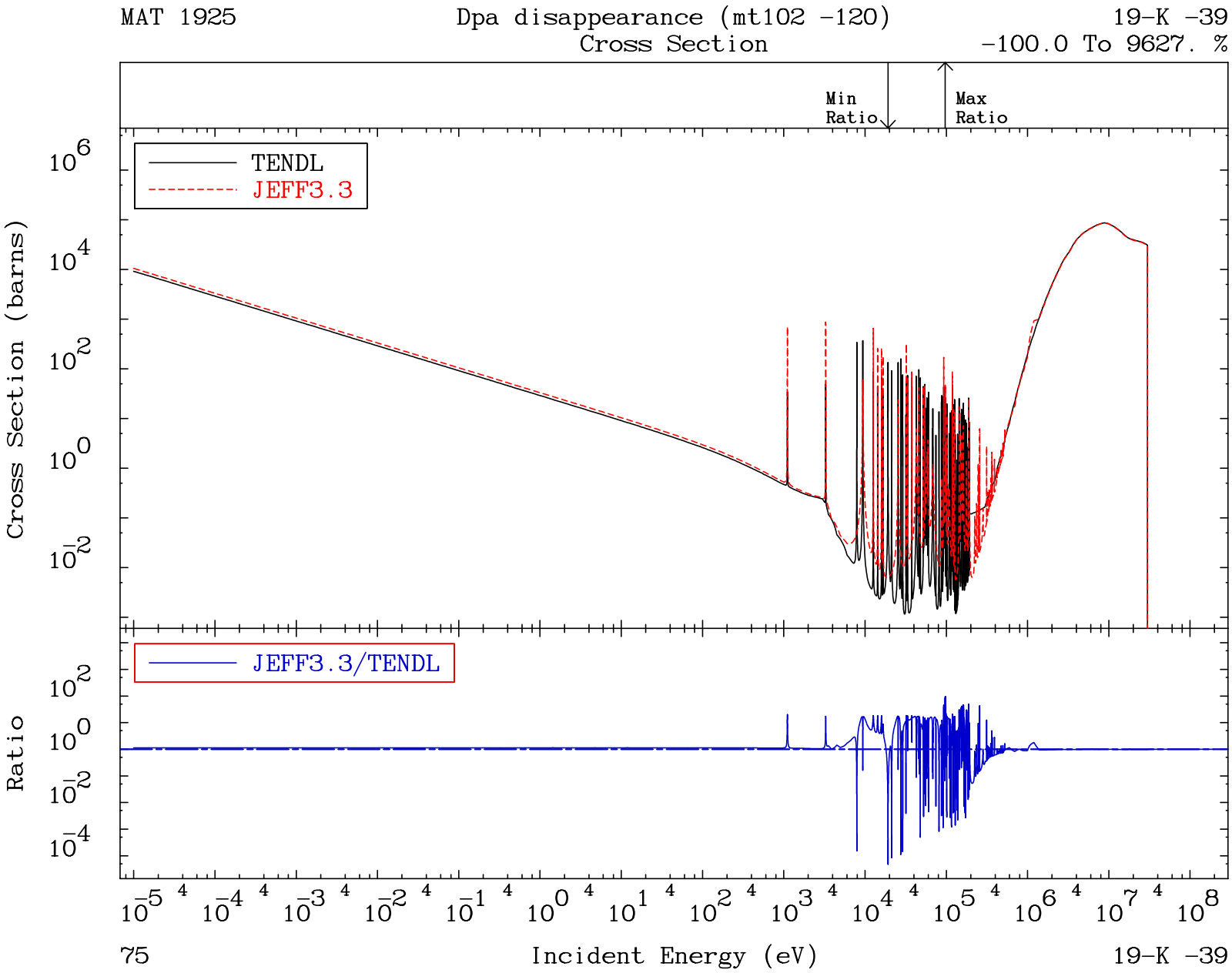

MAT 1925
Total photon (eV-barns)
Cross Section
19-K -39
-100.0 To 8238. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
19-K -39

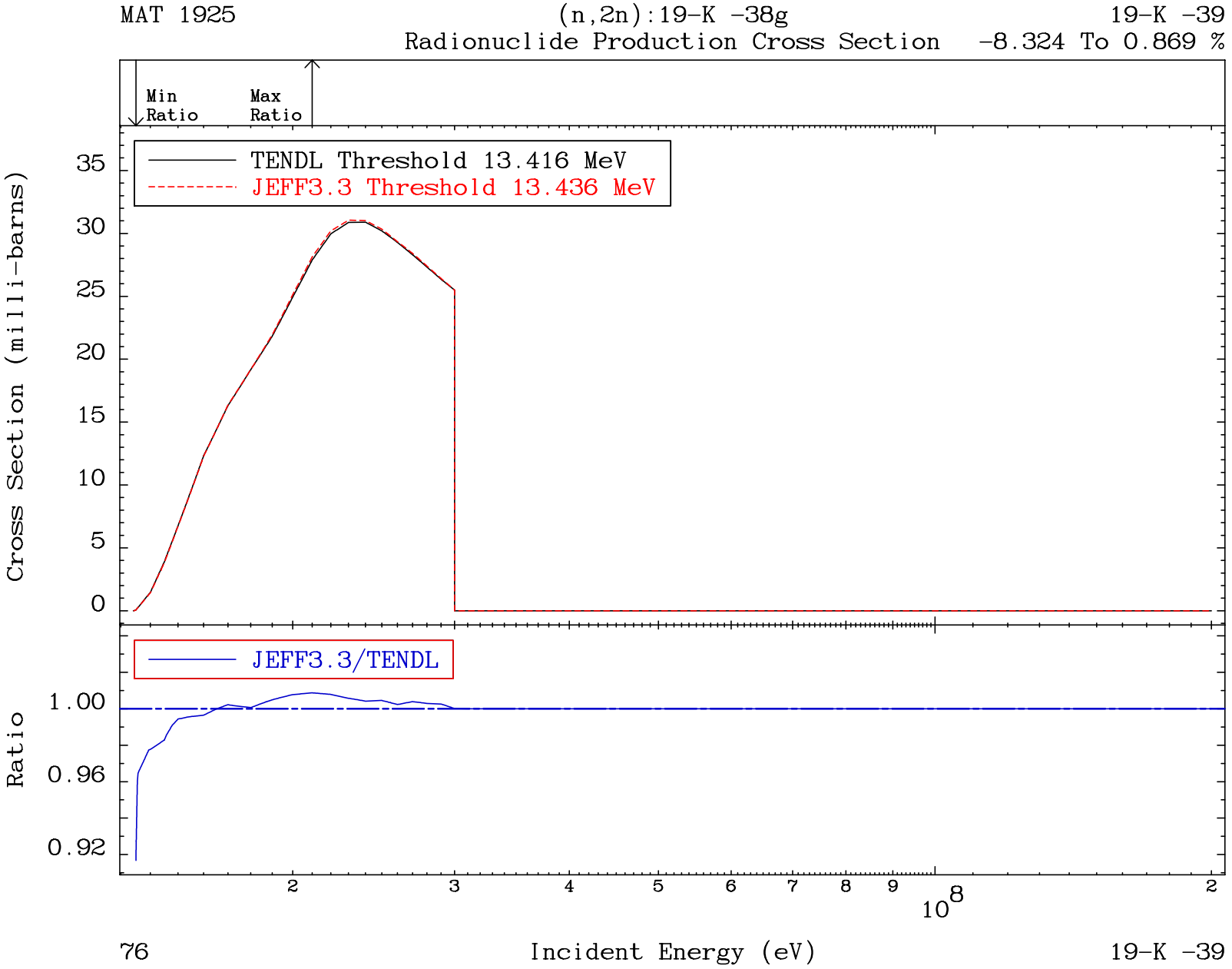

MAT 1925
Total kinematic kerma (high limit)
Cross Section
19-K -39
-99.38 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
71
19-K -39

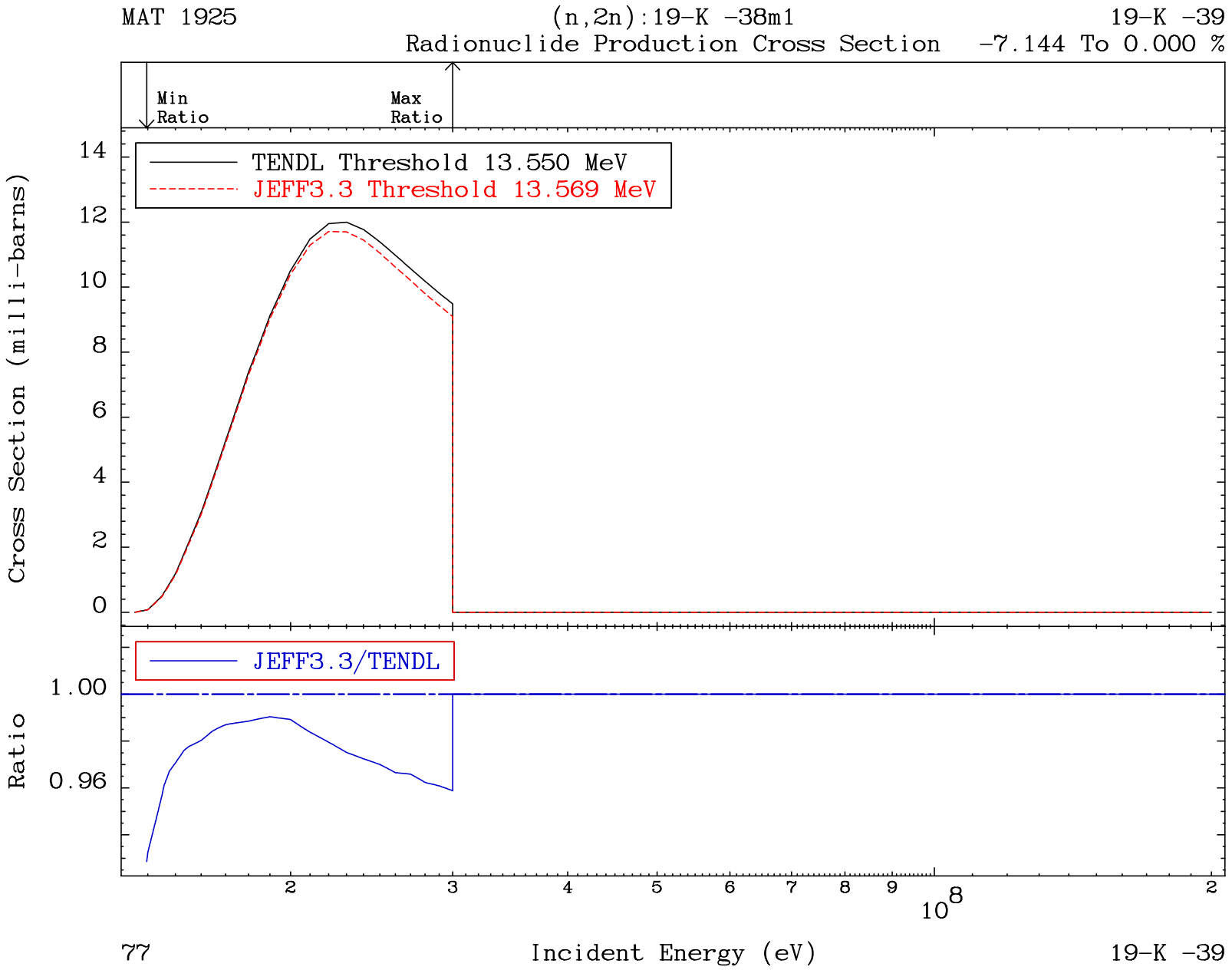

MAT 1925
Dpa total (eV-barns)
Cross Section
19-K -39
-99.38 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
19-K -39

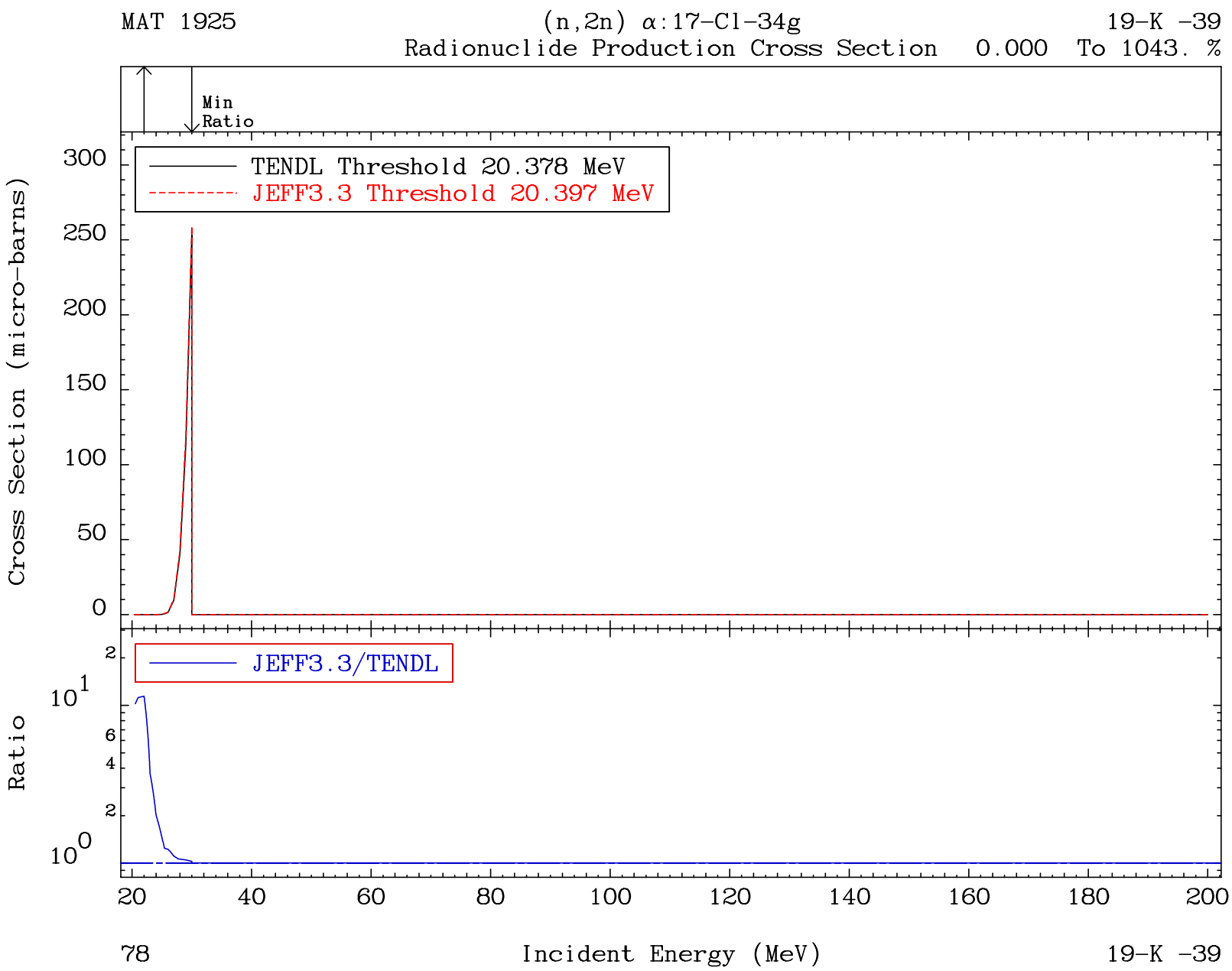

MAT 1925
Dpa elastic (mt2)
Cross Section
19-K -39
-99.38 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 237.50 eV
JEFF3.3 Threshold 233.98 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
73
19-K -39

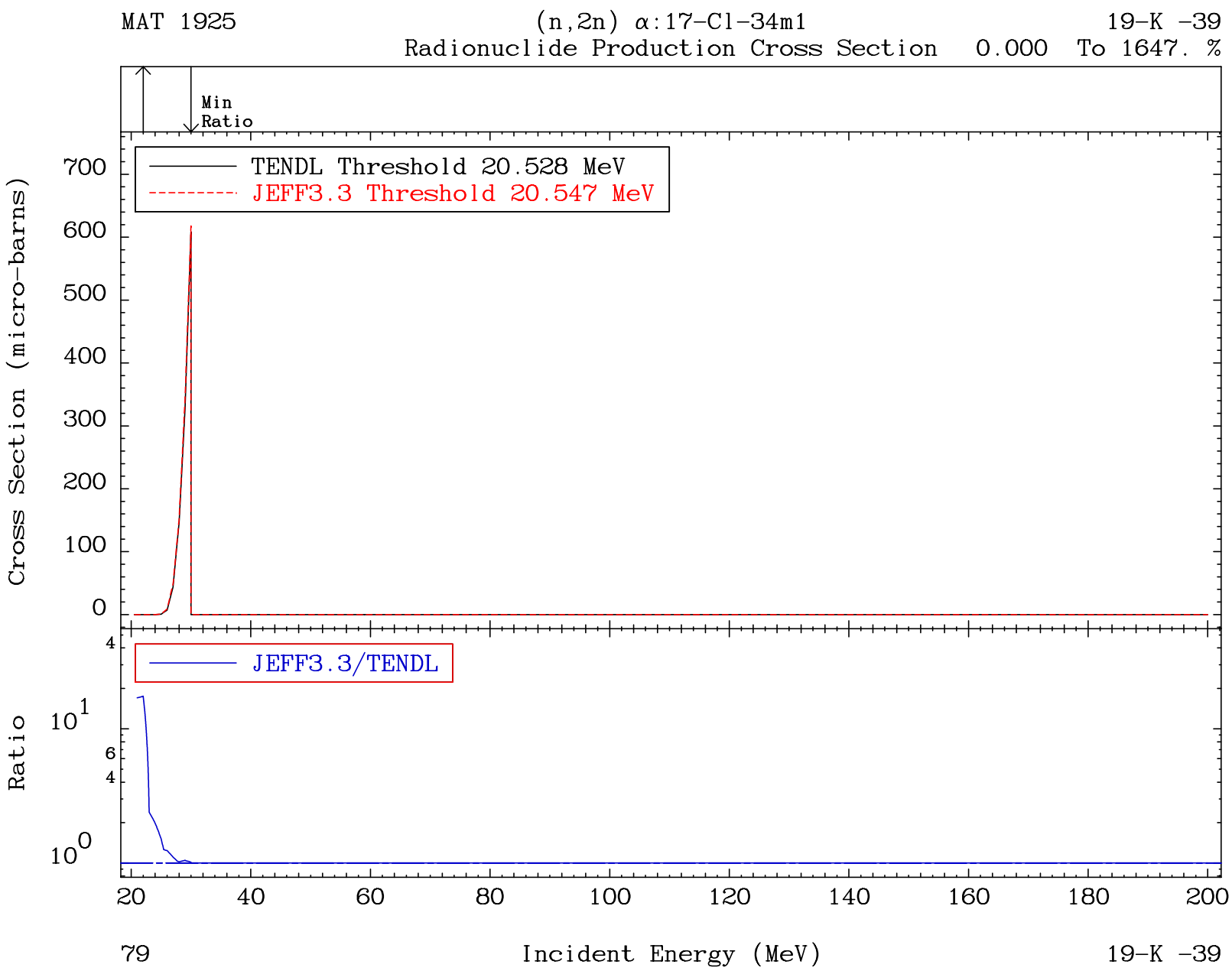

MAT 1925
Dpa inelastic (mt51-91)
Cross Section
19-K -39
-2.636 To 0.668 %
Max Ratio
Min Ratio
TENDL Threshold 2.5878 MeV
JEFF3.3 Threshold 2.5878 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
1.00
0.98
Incident Energy (eV)
74
19-K -39

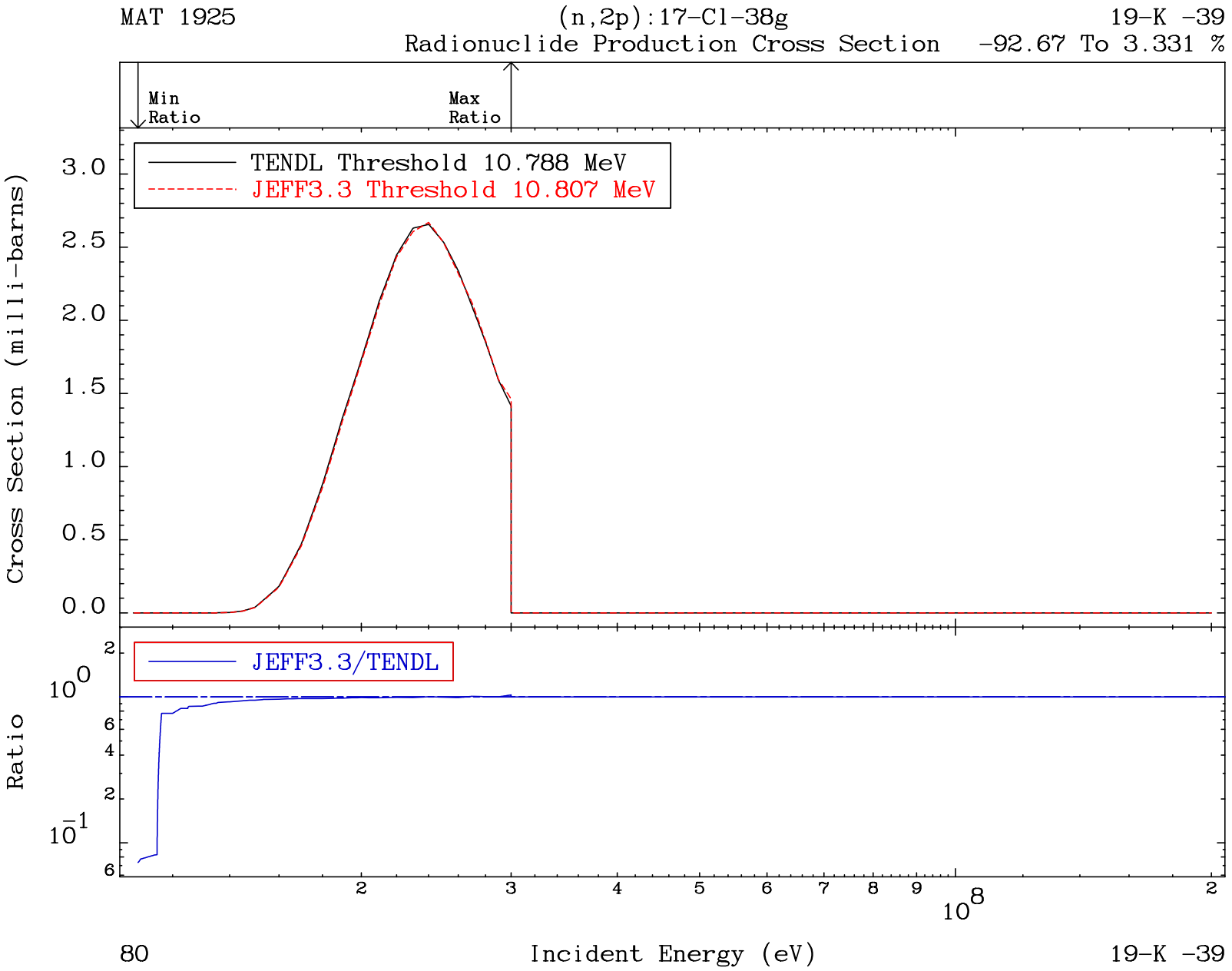

MAT 1925
Dpa disappearance (mt102 -120)
Cross Section
19-K -39
-100.0 To 9627. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
75
19-K -39

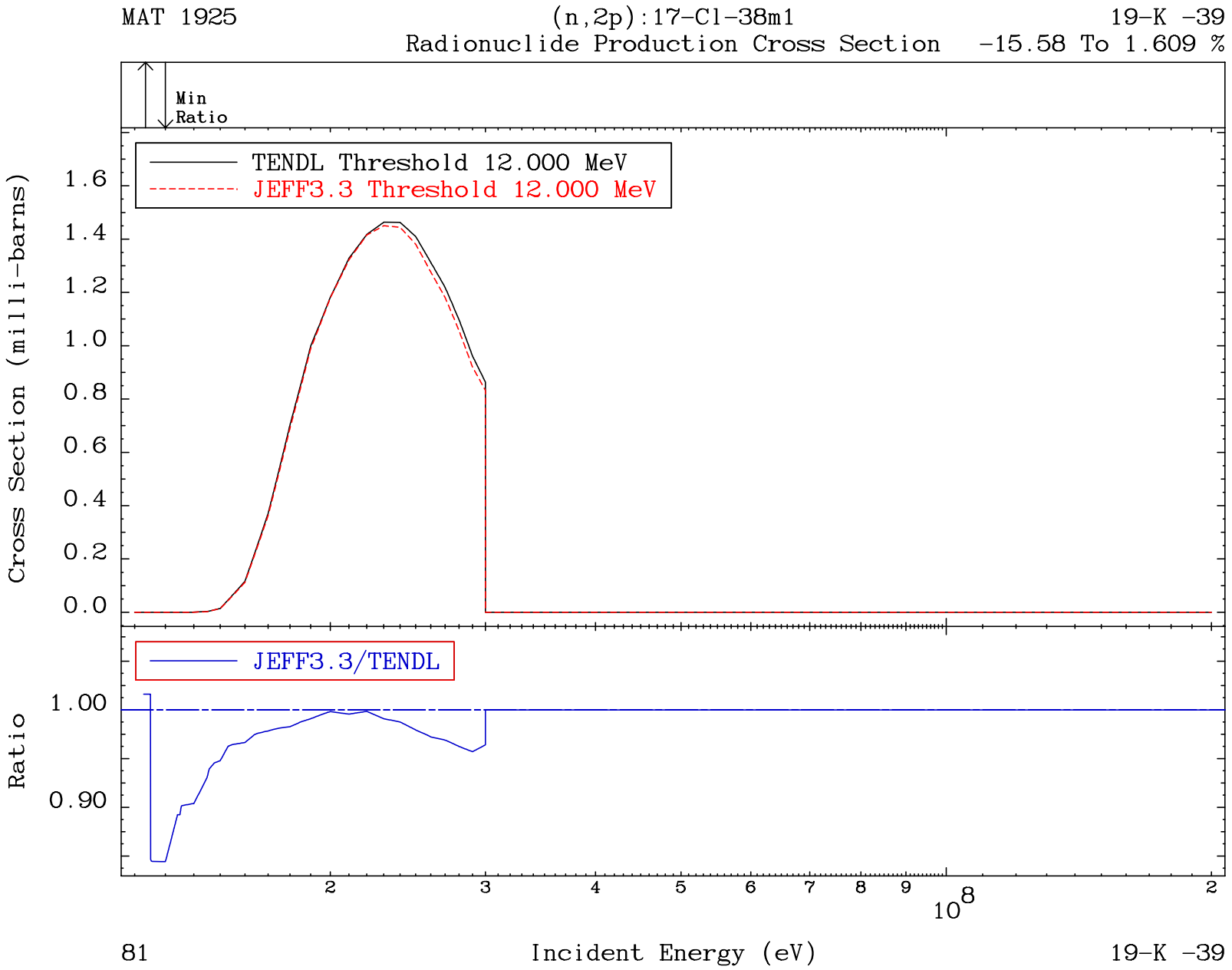

MAT 1925
(n,2n):19-K -38g
19-K -39
Radionuclide Production Cross Section
-8.324 To 0.869 %
Min Ratio
Max Ratio
TENDL Threshold 13.416 MeV
JEFF3.3 Threshold 13.436 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.00
0.96
0.92
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
19-K -39


MAT 1925
(n,2n):19-K -38m1
19-K -39
Radionuclide Production Cross Section
-7.144 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 13.550 MeV
JEFF3.3 Threshold 13.569 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.00
0.96
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
19-K -39


MAT 1925
(n,2n) α:17-Cl-34g
19-K -39
Radionuclide Production Cross Section 0.000 To 1043. %
Min Ratio
TENDL Threshold 20.378 MeV
JEFF3.3 Threshold 20.397 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
2
10^1
6
4
2
10^0
20
40
60
80
100
120
140
160
180
200
78
Incident Energy (MeV)
19-K -39


MAT 1925
(n,2n) α:17-Cl-34m1
19-K -39
Radionuclide Production Cross Section 0.000 To 1647. %
Min Ratio
TENDL Threshold 20.528 MeV
JEFF3.3 Threshold 20.547 MeV
Cross Section (micro-barns)
700
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
4
10^1
6
4
10^0
20
40
60
80
100
120
140
160
180
200
79
Incident Energy (MeV)
19-K -39


MAT 1925
(n,2p):17-Cl-38g
19-K -39
Radionuclide Production Cross Section
-92.67 To 3.331 %
Min Ratio
Max Ratio
TENDL Threshold 10.788 MeV
JEFF3.3 Threshold 10.807 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^0
10^-1
2
6
4
2
6
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
19-K -39


MAT 1925
(n,2p):17-Cl-38m1
19-K -39
Radionuclide Production Cross Section
-15.58 To 1.609 %
Min
Ratio
TENDL Threshold 12.000 MeV
JEFF3.3 Threshold 12.000 MeV
Cross Section (milli-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
0.90
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
19-K -39