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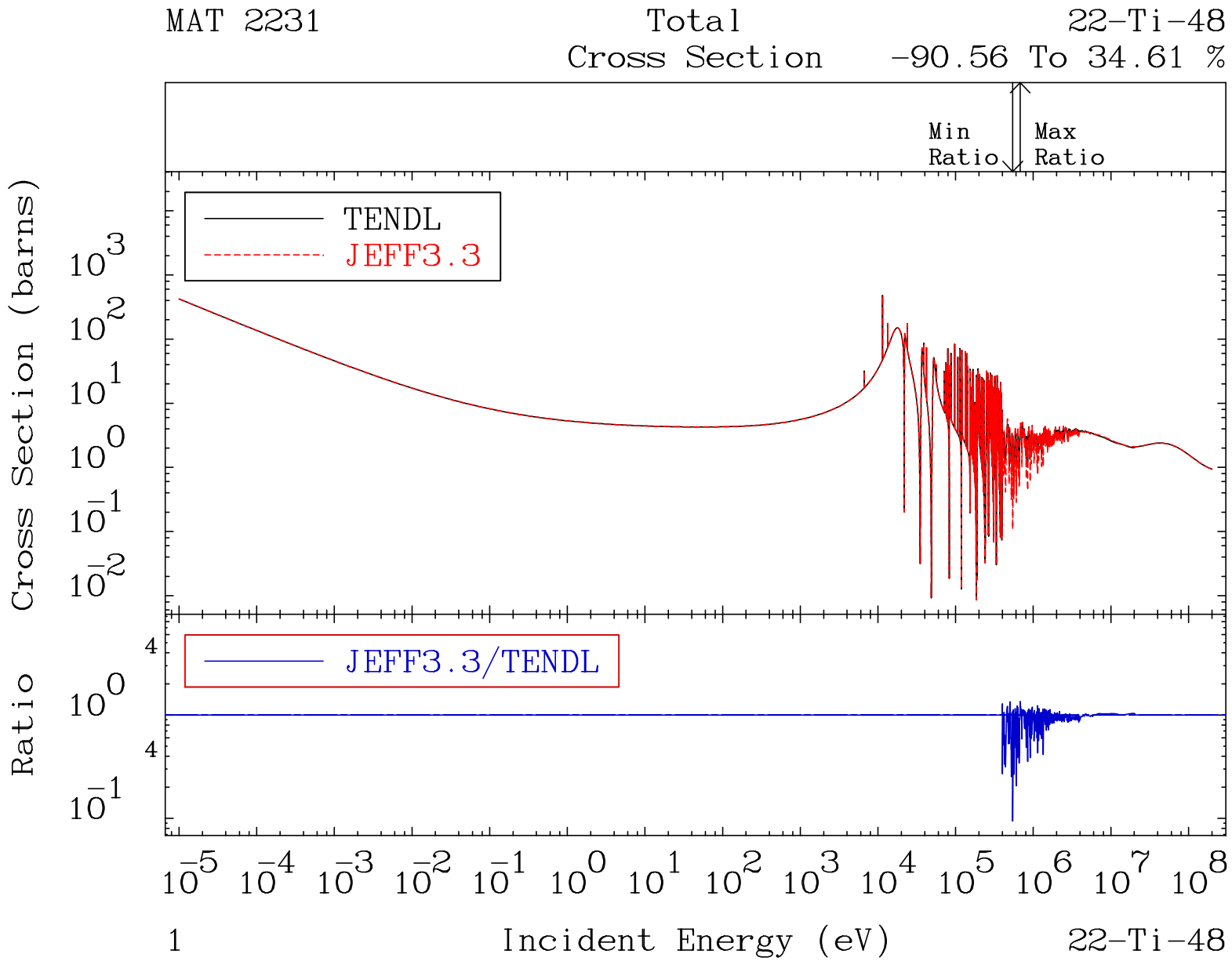
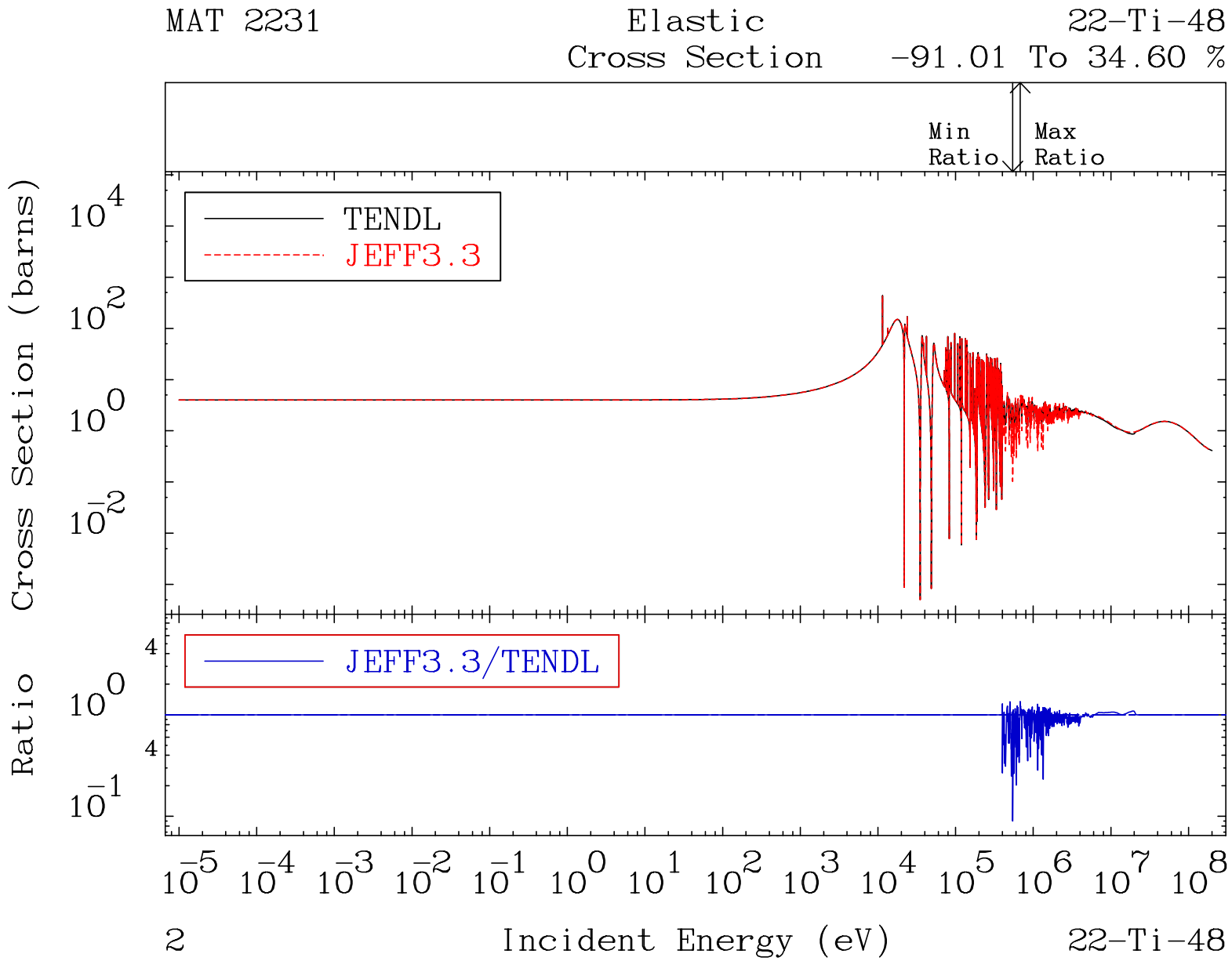
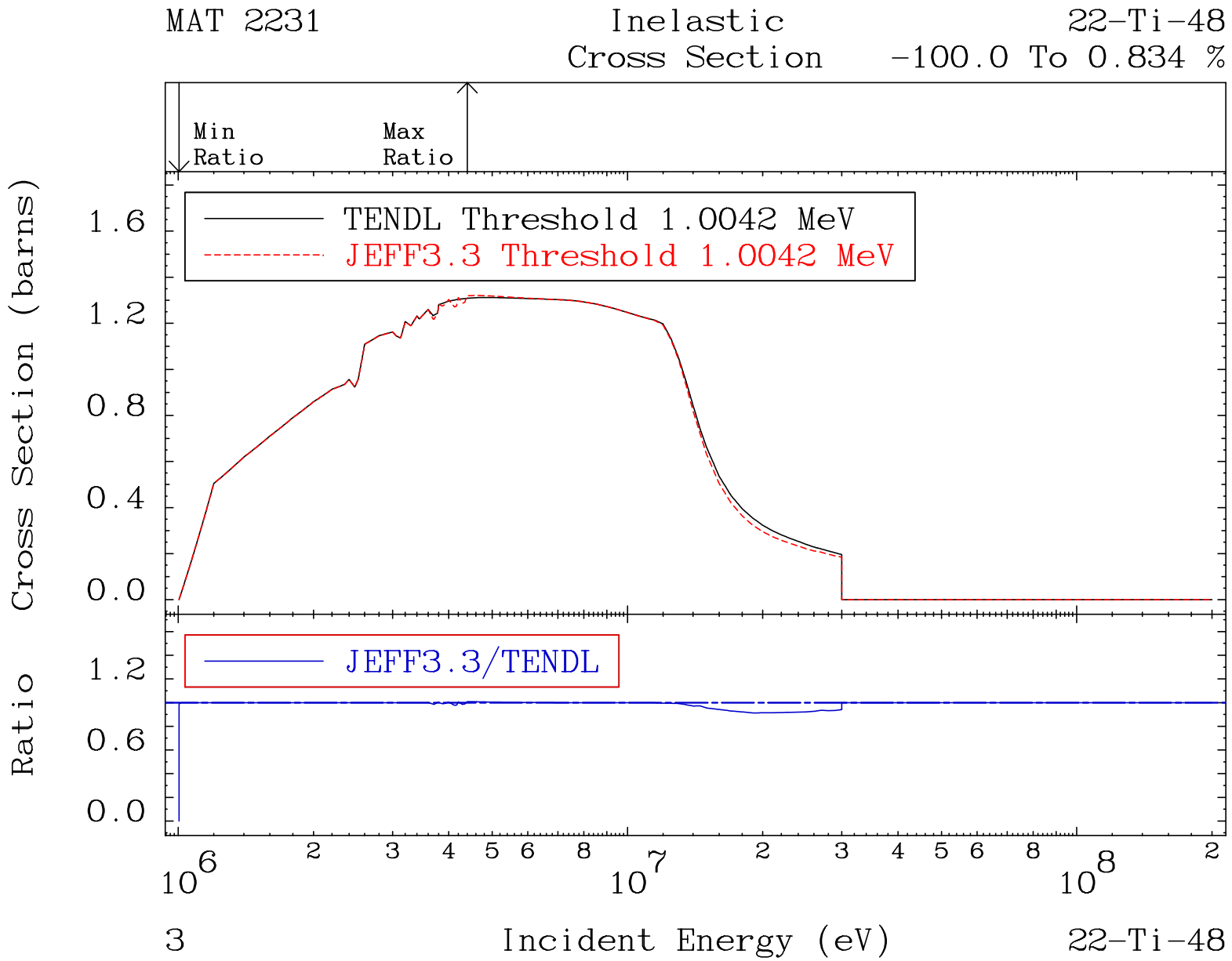
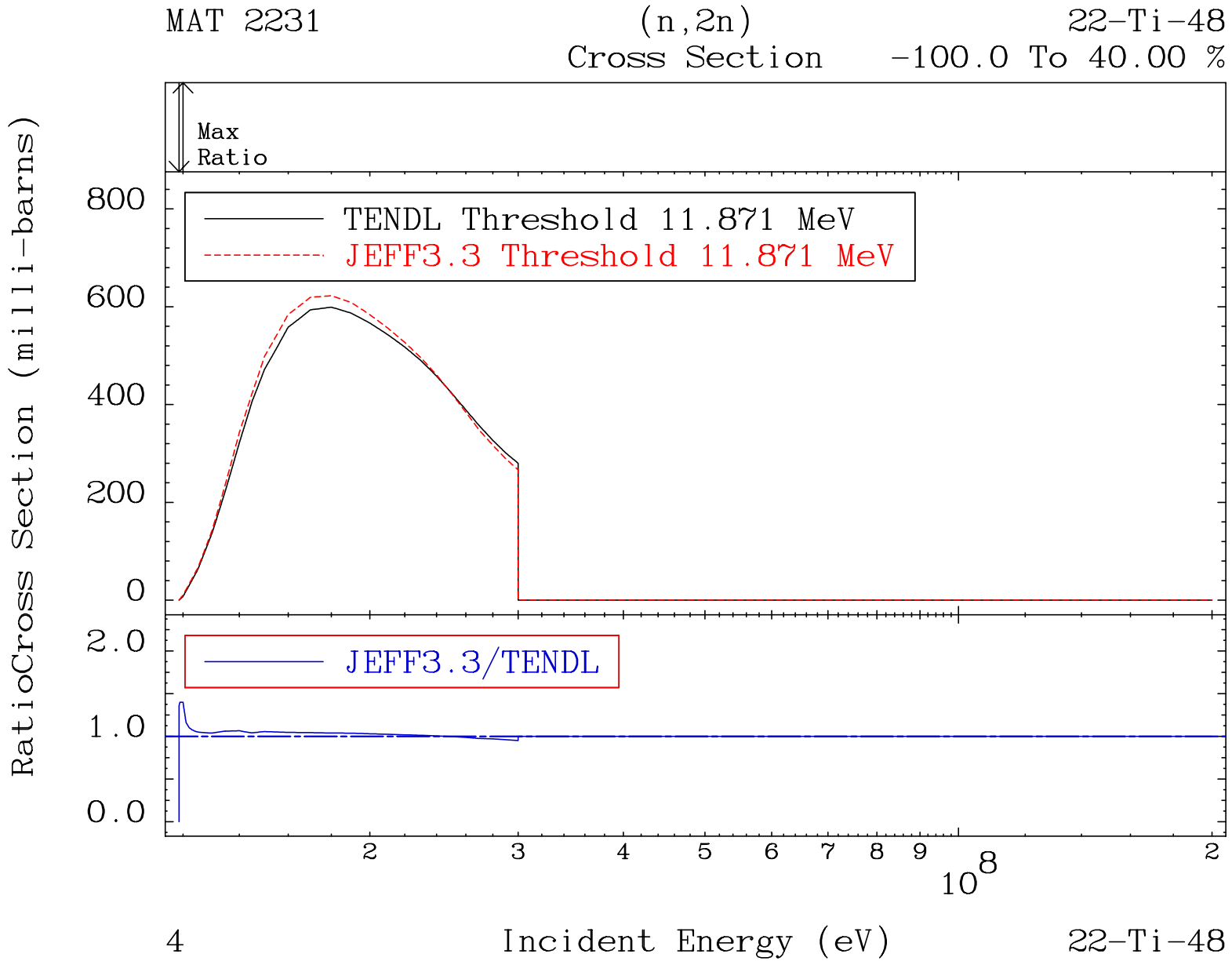
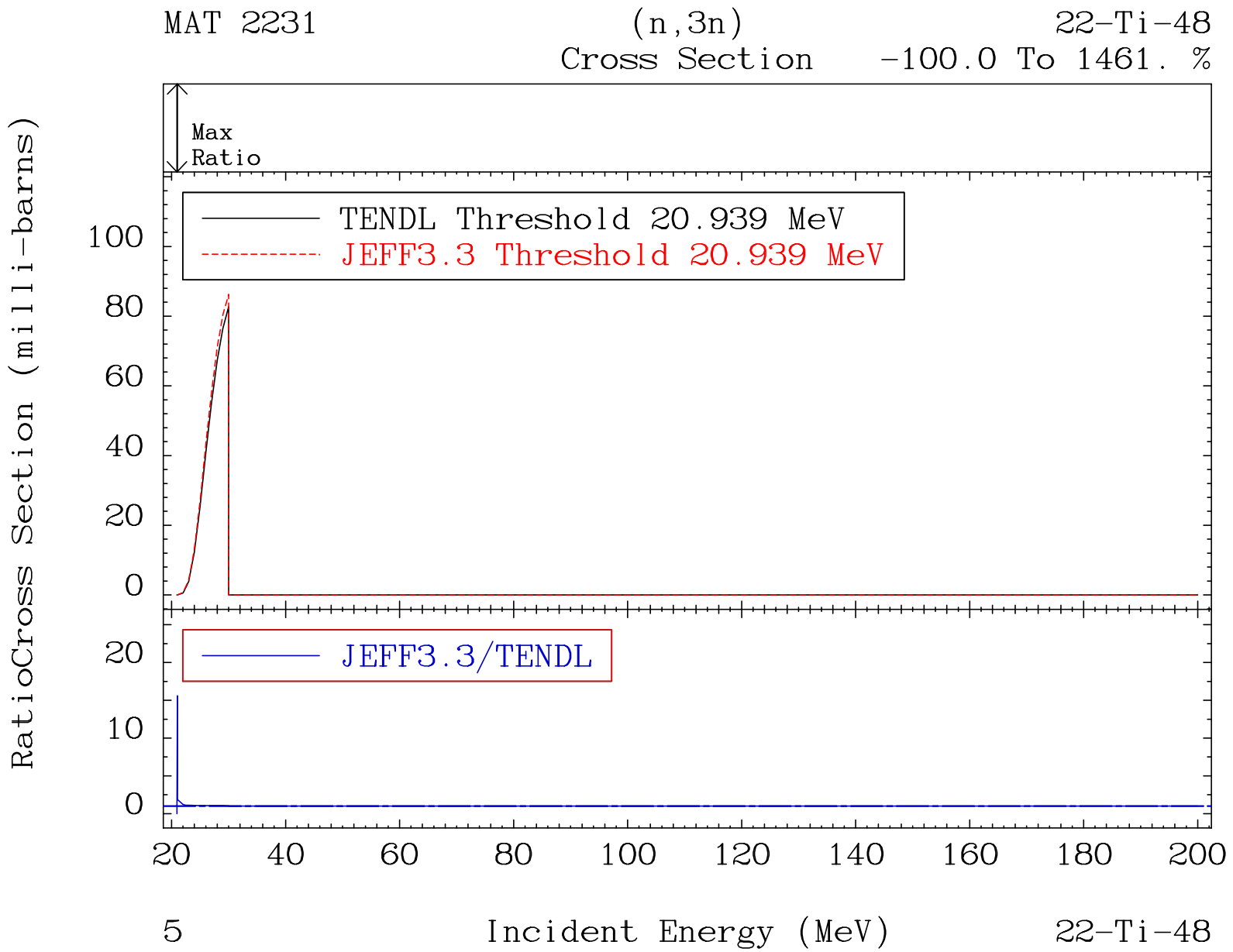
Press Mouse Button to Start

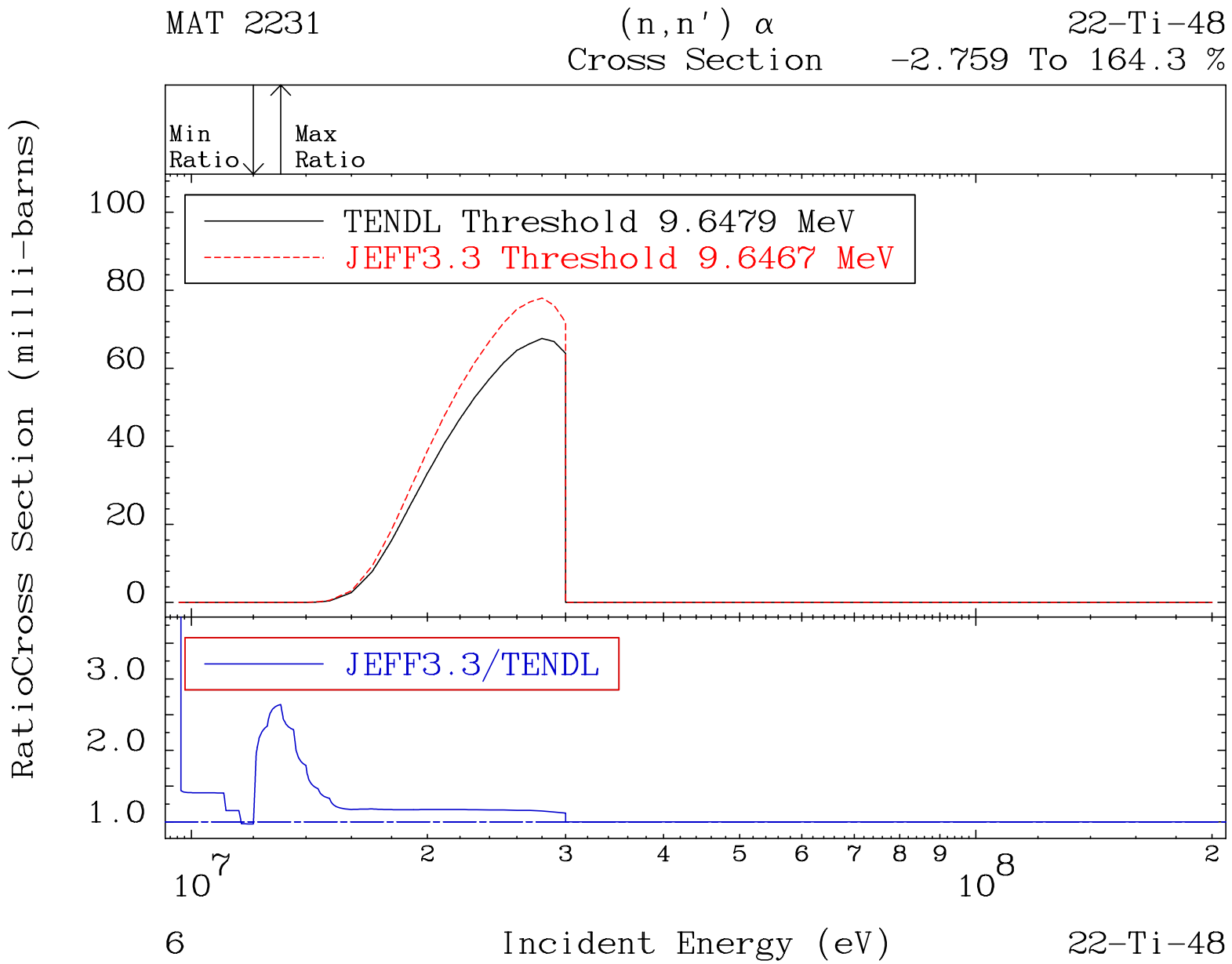

MAT 2231
Total
Cross Section
22-Ti-48
-90.56 To 34.61 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
22-Ti-48

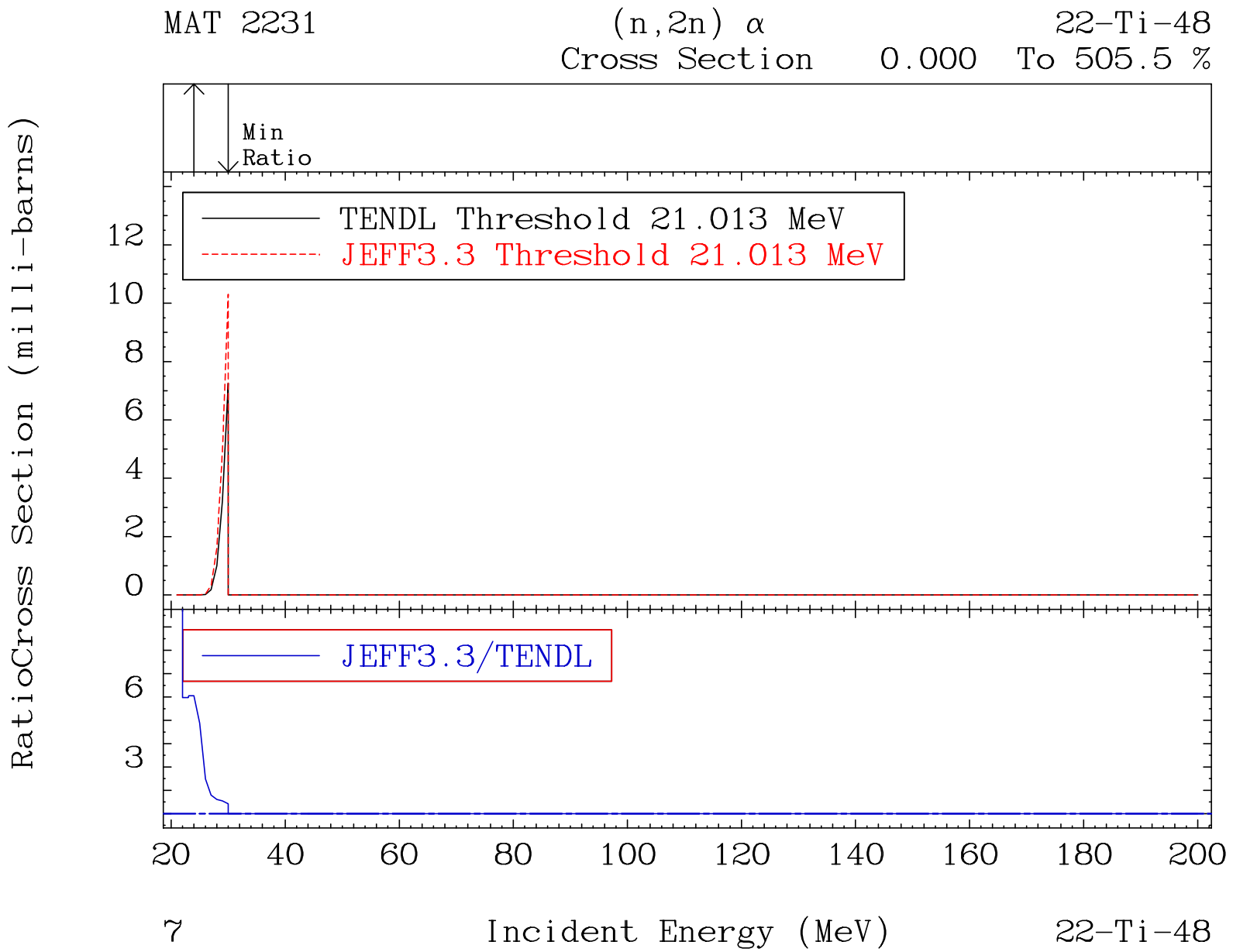

MAT 2231
Elastic
Cross Section
22-Ti-48
-91.01 To 34.60 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
22-Ti-48
2

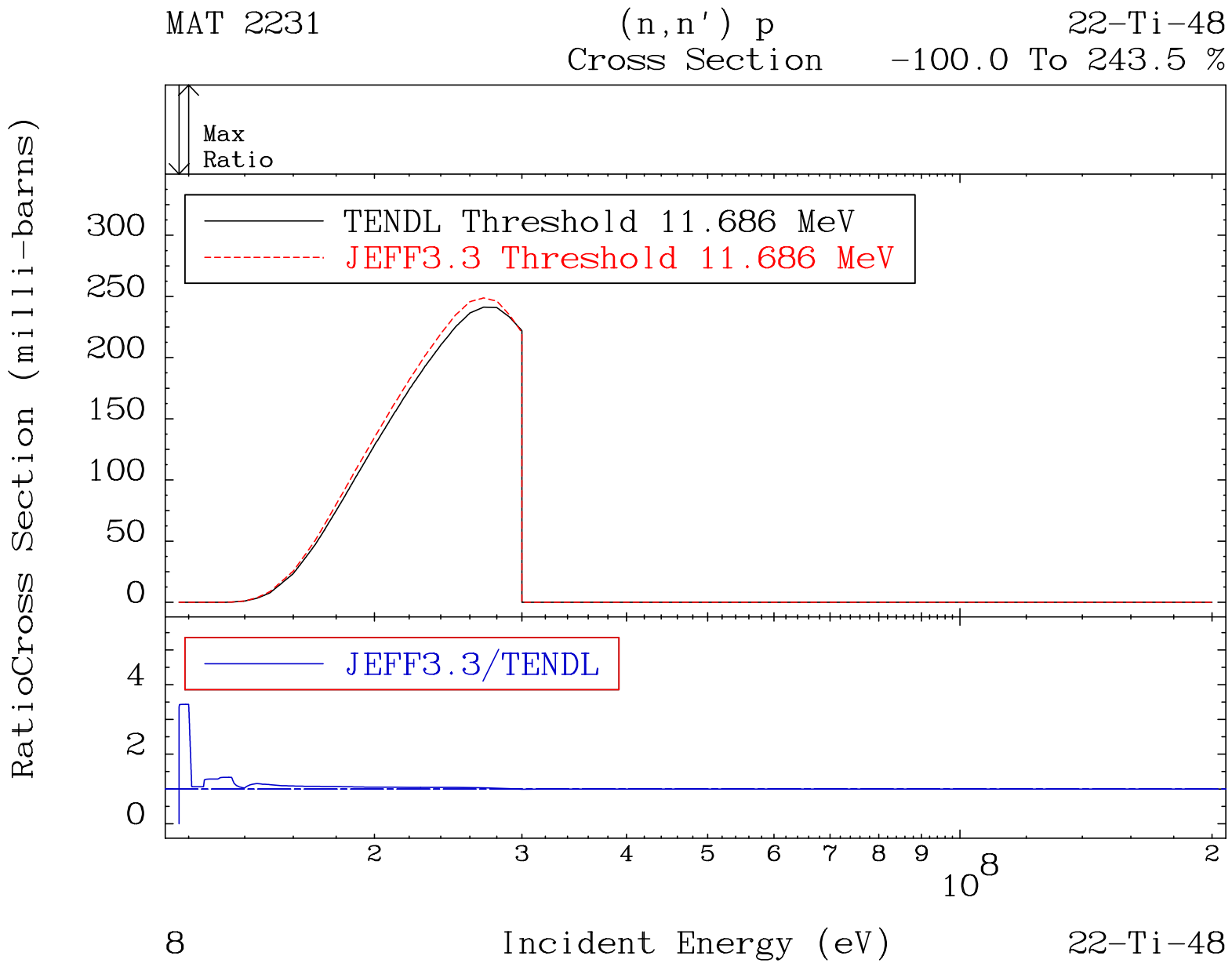

MAT 2231
Inelastic
Cross Section
22-Ti-48
-100.0 To 0.834 %
Min Ratio
Max Ratio
TENDL Threshold 1.0042 MeV
JEFF3.3 Threshold 1.0042 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.2
0.6
0.0
10^6
10^7
10^8
Incident Energy (eV)
3
22-Ti-48

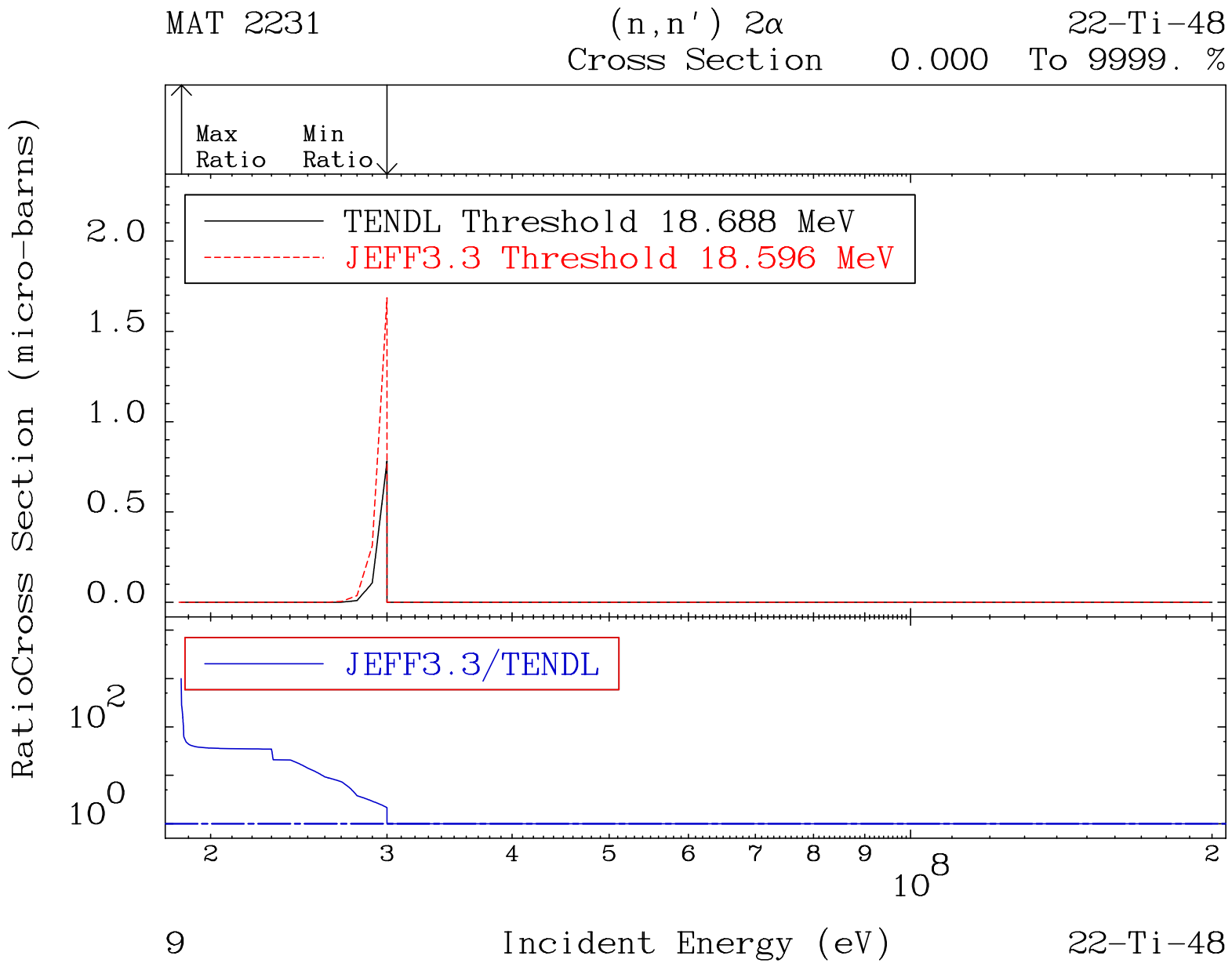

MAT 2231
(n,2n)
Cross Section
22-Ti-48
-100.0 To 40.00 %
Max
Ratio
800
600
400
200
0
TENDL Threshold 11.871 MeV
JEFF3.3 Threshold 11.871 MeV
2.0
1.0
0.0
JEFF3.3/TENDL
2
3
4
5
6
7
8
9
2
10^8
RatioCross Section (milli-barns)
4
Incident Energy (eV)
22-Ti-48

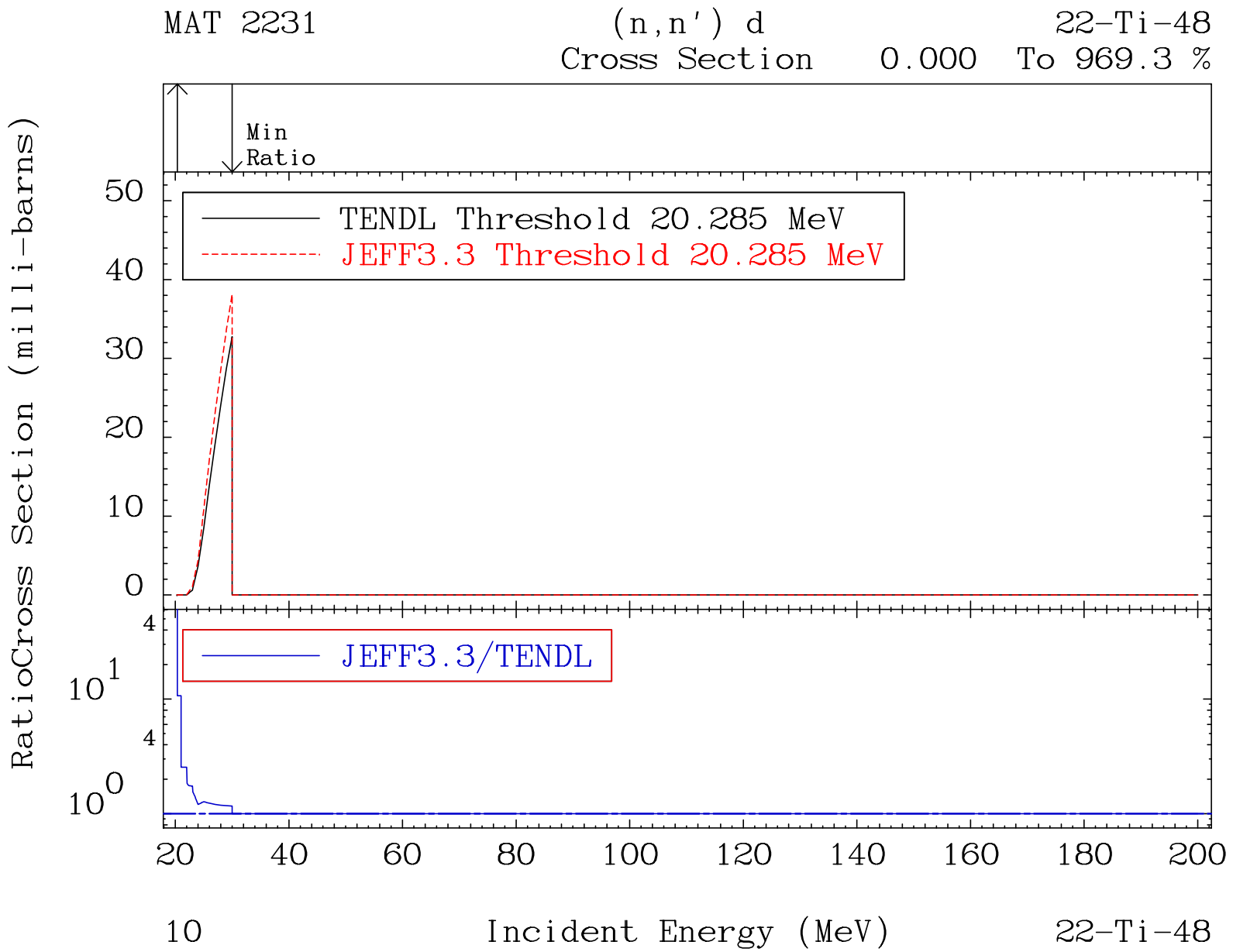

MAT 2231
(n,3n)
22-Ti-48
Cross Section
-100.0 To 1461. %
Max
Ratio
TENDL Threshold 20.939 MeV
JEFF3.3 Threshold 20.939 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
20
10
0
20
40
60
80
100
120
140
160
180
200
5
Incident Energy (MeV)
22-Ti-48

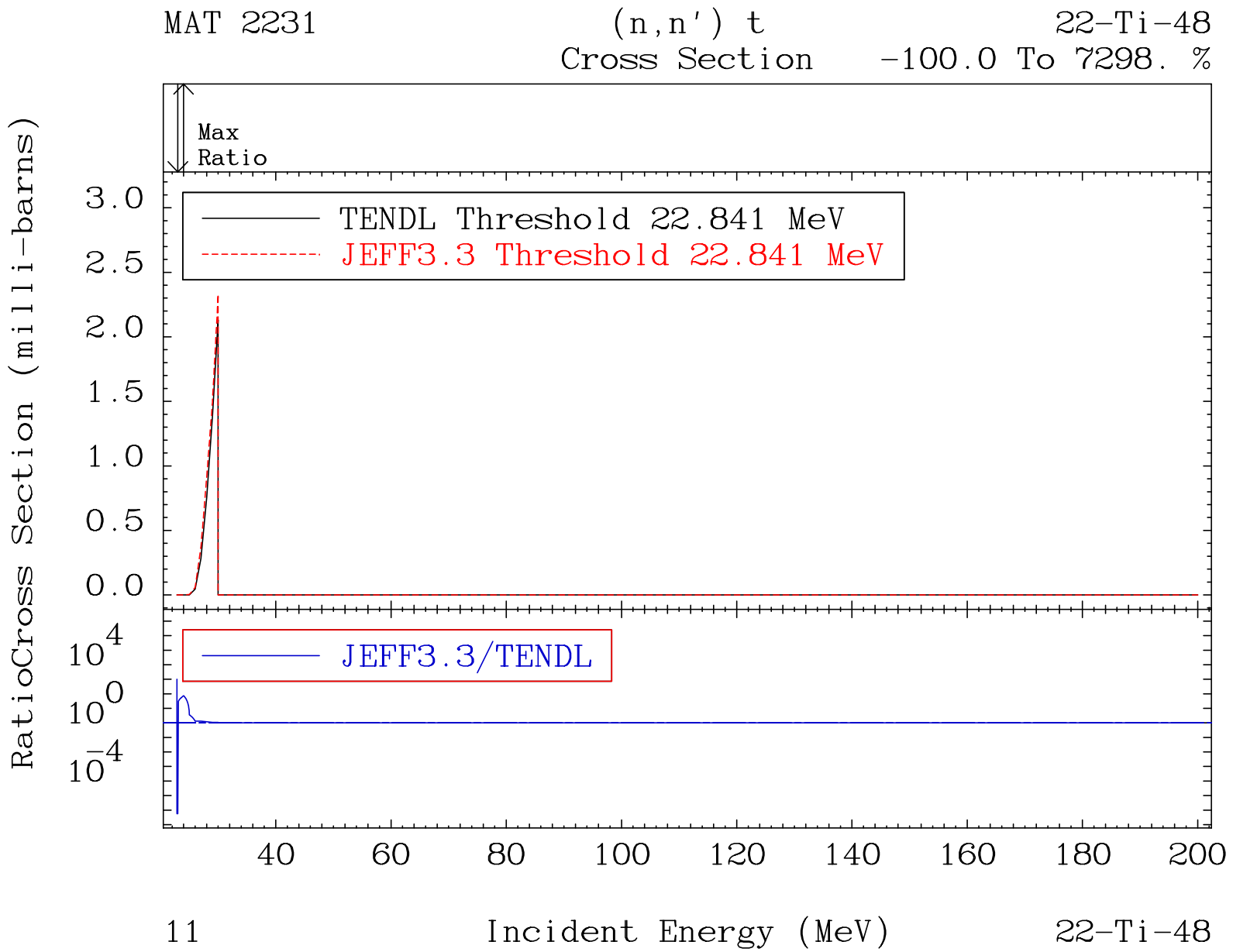

MAT 2231
(n,n') α
Cross Section
22-Ti-48
-2.759 To 164.3 %
Min Ratio
Max Ratio
TENDL Threshold 9.6479 MeV
JEFF3.3 Threshold 9.6467 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
3.0
2.0
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
22-Ti-48

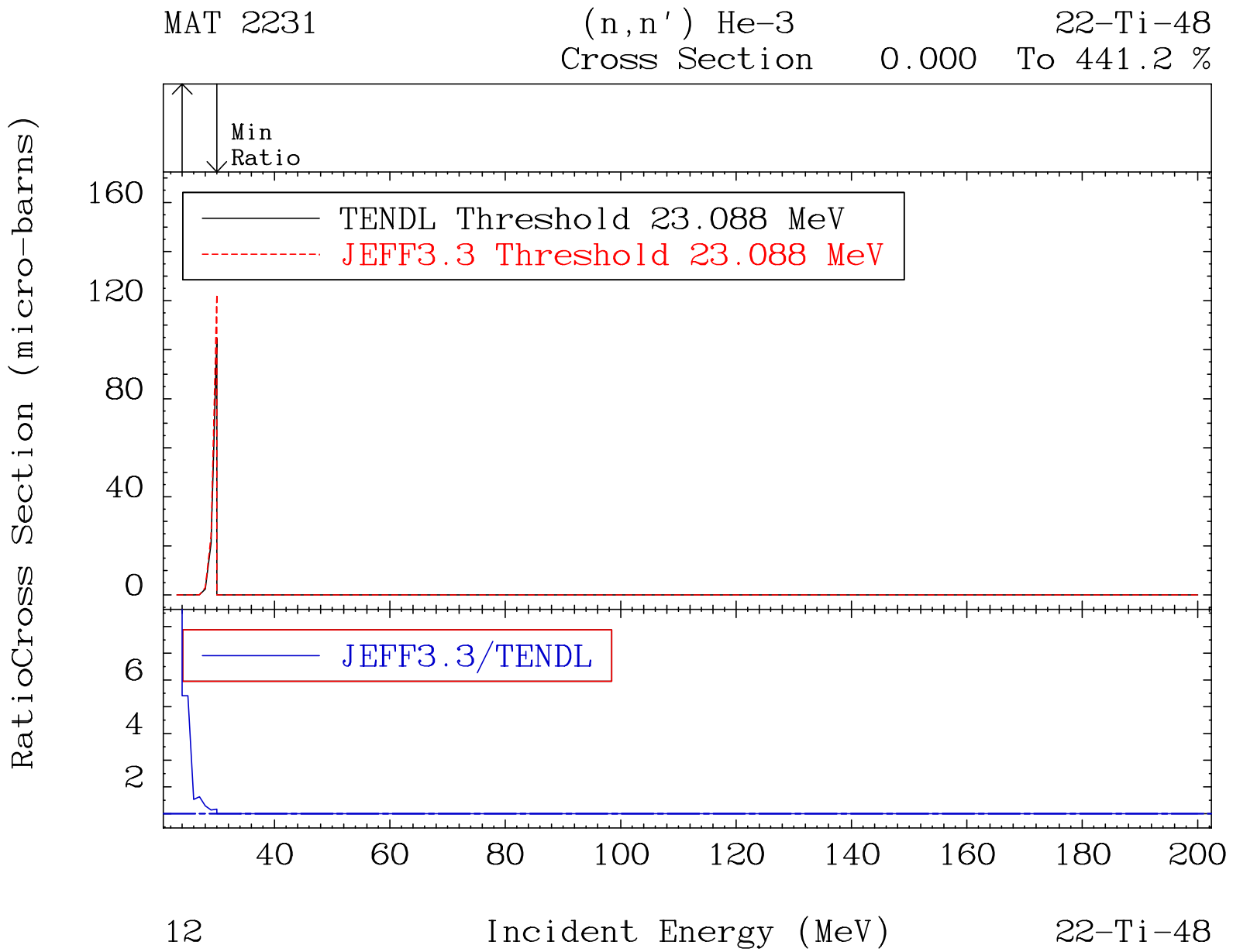

MAT 2231
(n,2n) α
22-Ti-48
Cross Section 0.000 To 505.5 %
Min
Ratio
TENDL Threshold 21.013 MeV
JEFF3.3 Threshold 21.013 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
10
12
3
6
20
40
60
80
100
120
140
160
180
200
Incident Energy (MeV)
7
22-Ti-48

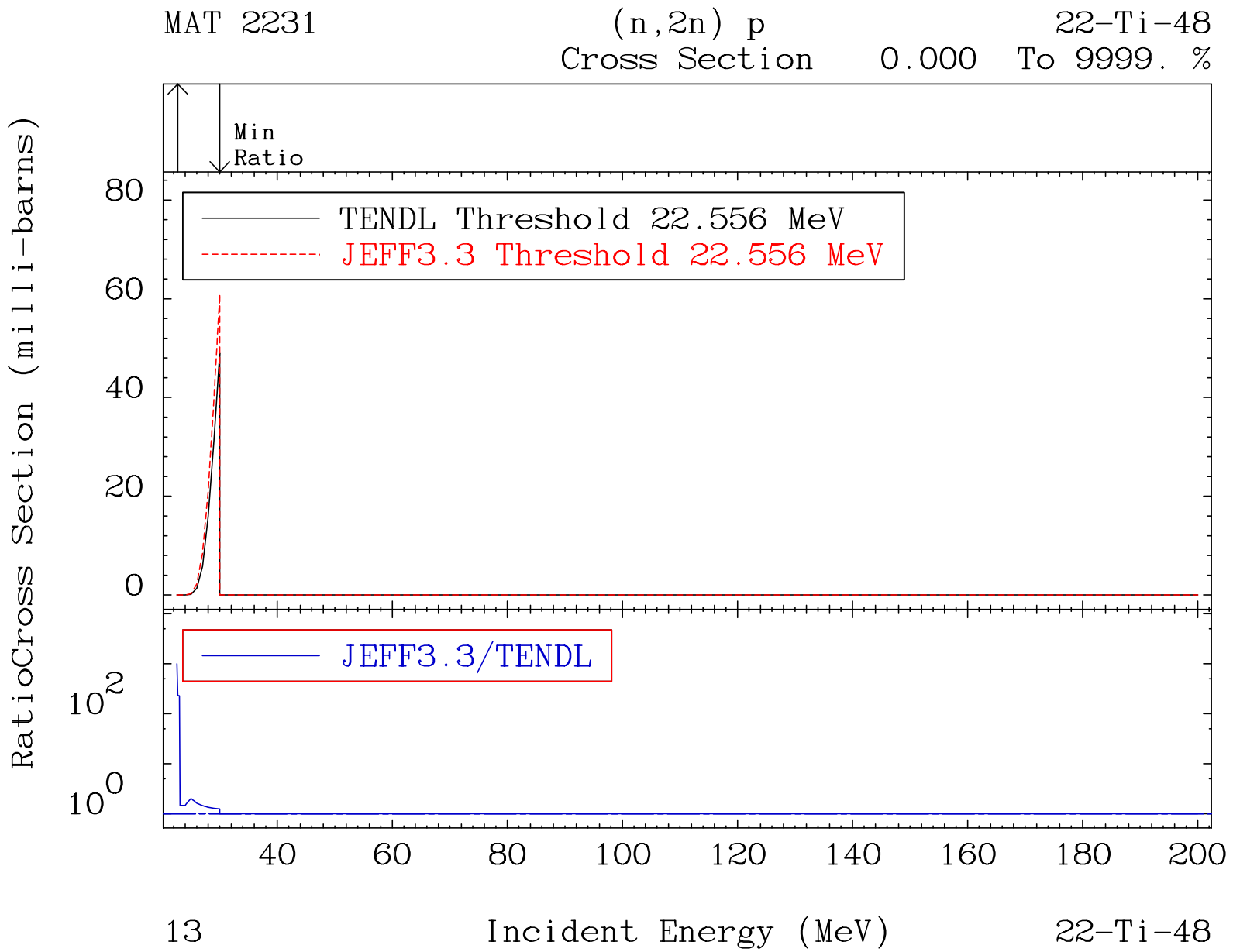

MAT 2231
(n,n') p
Cross Section
22-Ti-48
-100.0 To 243.5 %
Max
Ratio
TENDL Threshold 11.686 MeV
JEFF3.3 Threshold 11.686 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
4
2
0
2
3
4
5
6
7
8
9
2
10^8
8
Incident Energy (eV)
22-Ti-48

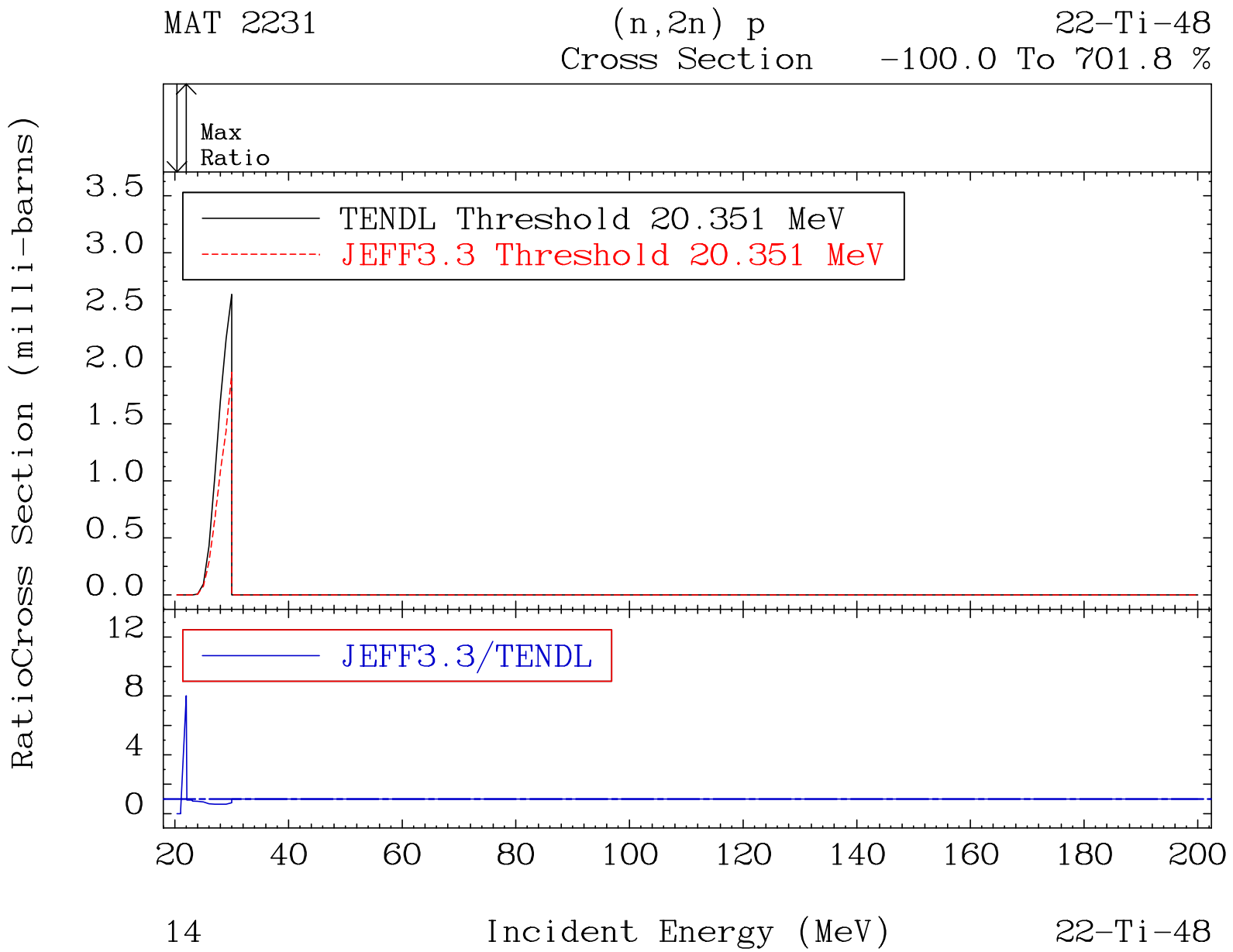

MAT 2231
(n,n') 2α
22-Ti-48
Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 18.688 MeV
JEFF3.3 Threshold 18.596 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
22-Ti-48

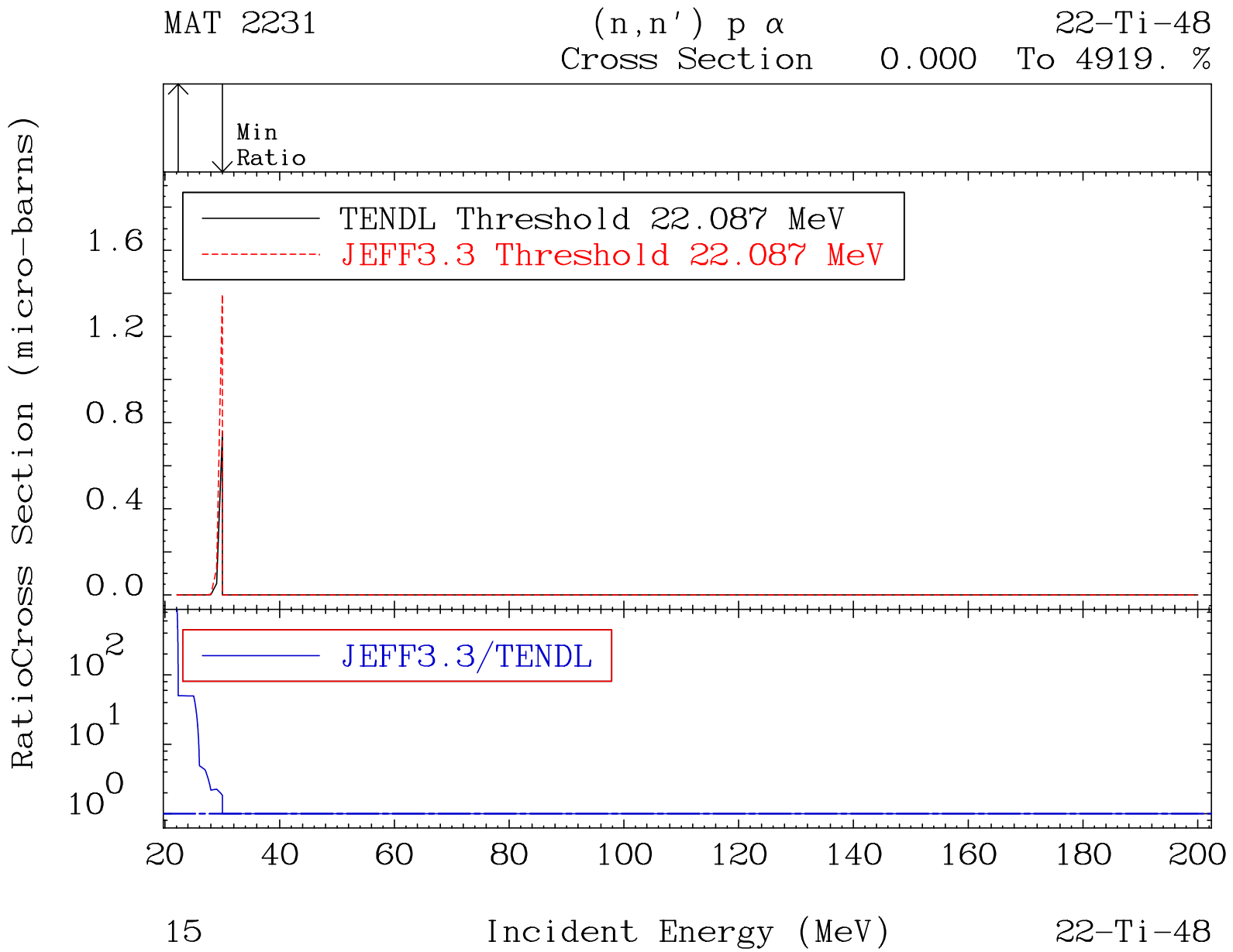

MAT 2231
(n,n') d
22-Ti-48
Cross Section
0.000
To 969.3 %
Min
Ratio
TENDL Threshold 20.285 MeV
JEFF3.3 Threshold 20.285 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
4
10^1
4
10^0
20
40
60
80
100
120
140
160
180
200
10
Incident Energy (MeV)
22-Ti-48

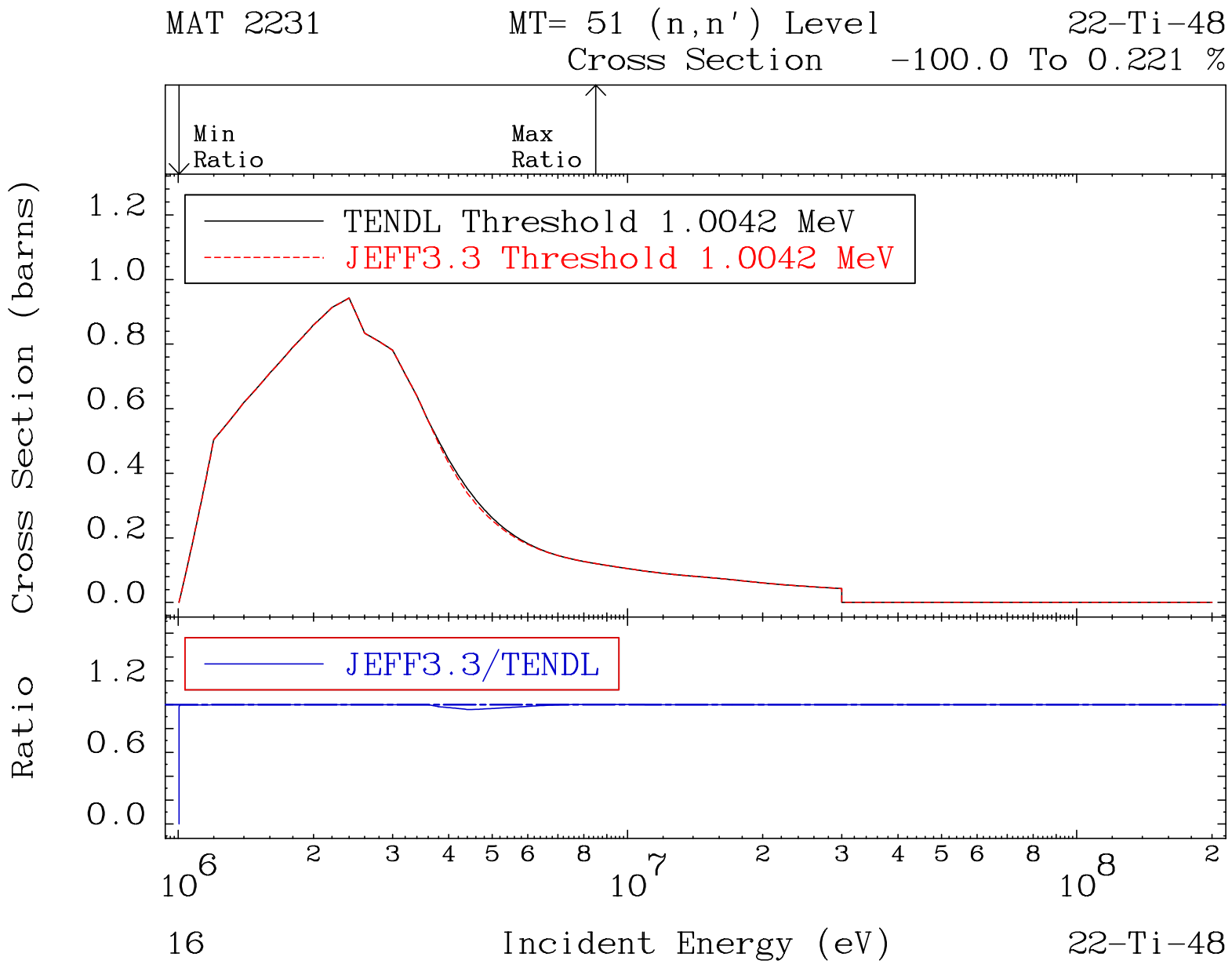

MAT 2231
(n,n') t
22-Ti-48
Cross Section
-100.0 To 7298. %
Max
Ratio
TENDL Threshold 22.841 MeV
JEFF3.3 Threshold 22.841 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10^4
10^0
10^-4
40
60
80
100
120
140
160
180
200
11
Incident Energy (MeV)
22-Ti-48

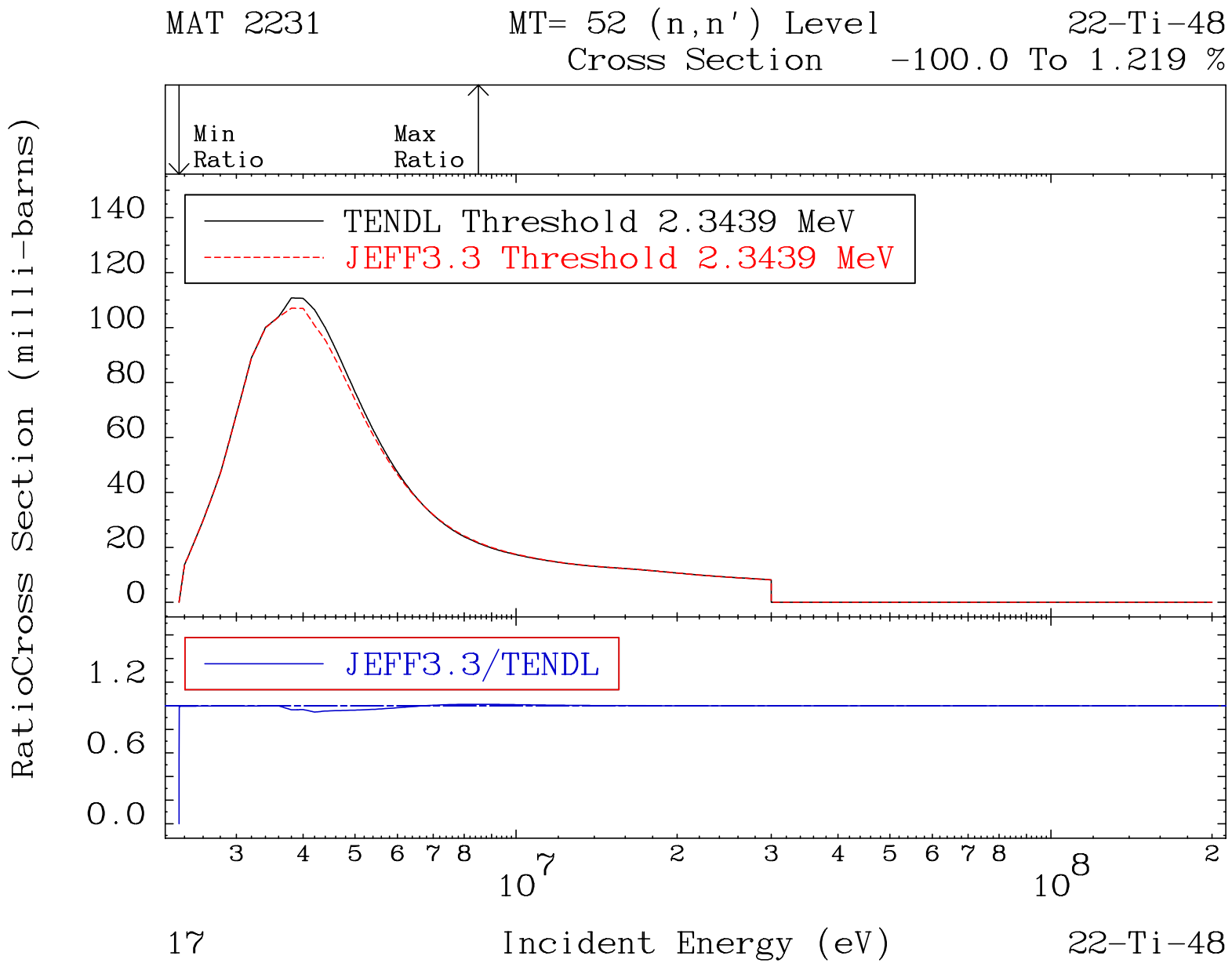

MAT 2231
(n,n') He-3
22-Ti-48
Cross Section 0.000 To 441.2 %
Min
Ratio
160
120
80
40
0
TENDL Threshold 23.088 MeV
JEFF3.3 Threshold 23.088 MeV
6
4
2
JEFF3.3/TENDL
RatioCross Section (micro-barns)
40
60
80
100
120
140
160
180
200
12
Incident Energy (MeV)
22-Ti-48

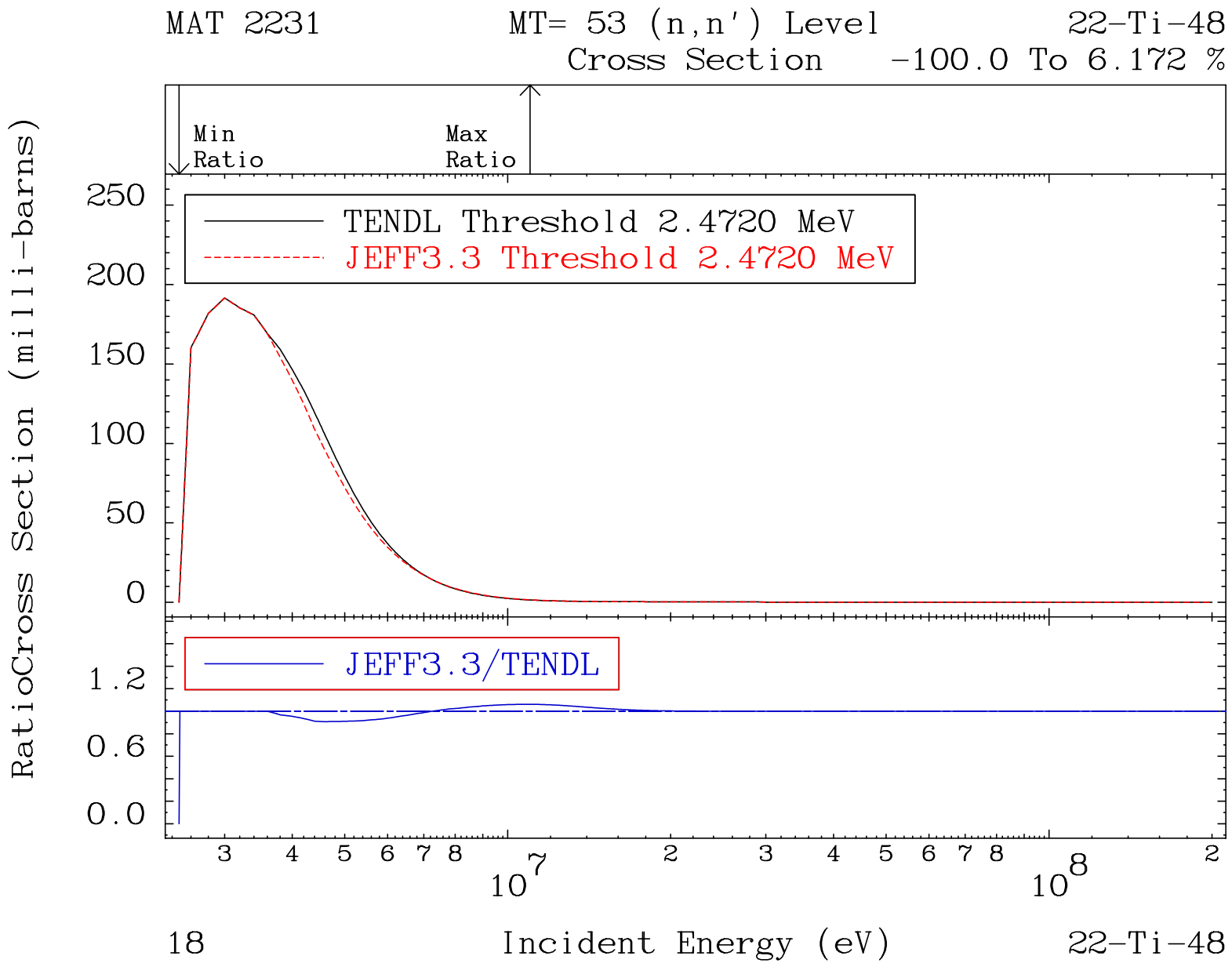

MAT 2231
(n,2n) p
22-Ti-48
Cross Section 0.000 To 9999. %
Min
Ratio
80
60
40
20
0
TENDL Threshold 22.556 MeV
JEFF3.3 Threshold 22.556 MeV
JEFF3.3/TENDL
10^2
10^0
RatioCross Section (milli-barns)
40
60
80
100
120
140
160
180
200
13
Incident Energy (MeV)
22-Ti-48

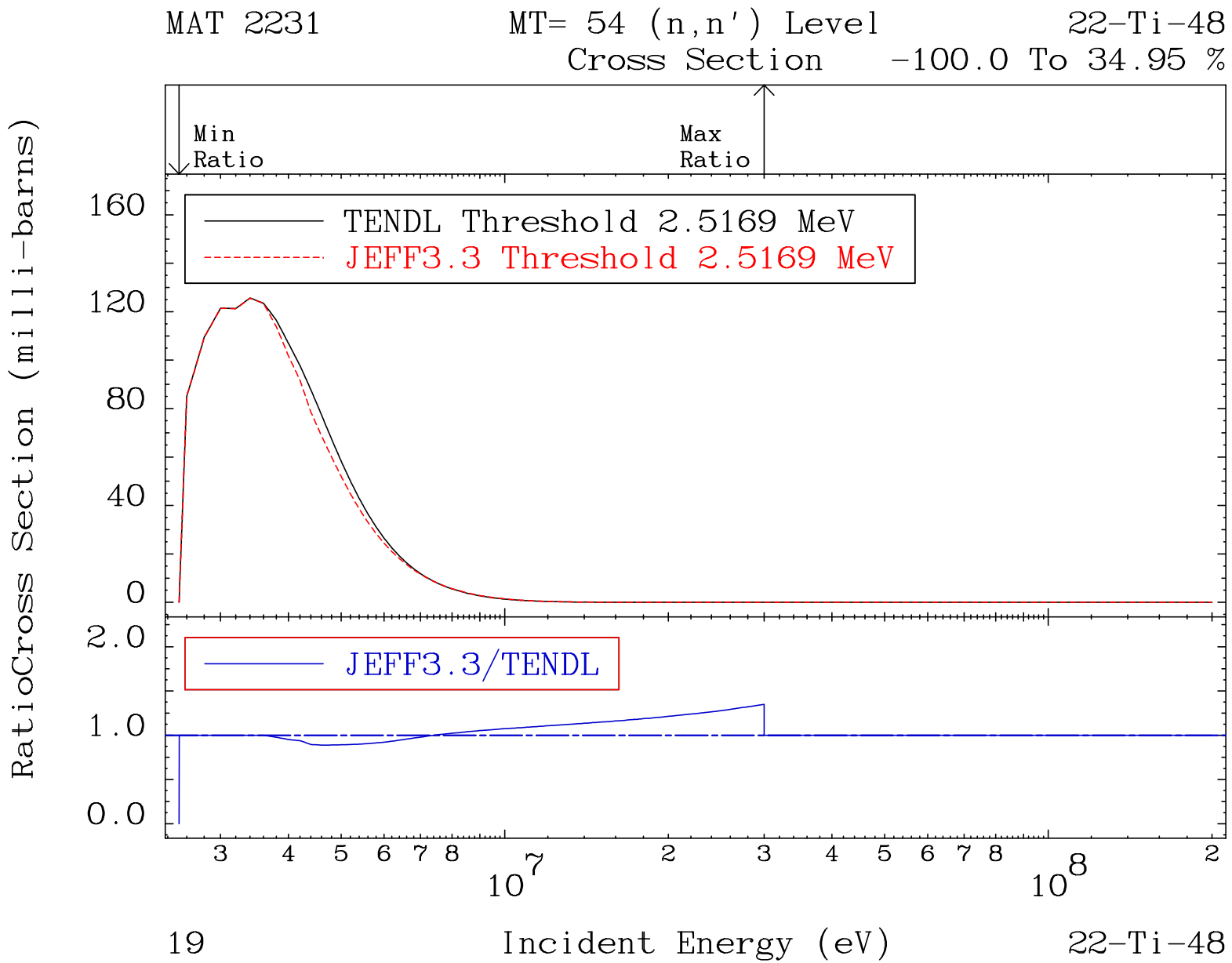

MAT 2231
(n,2n) p
22-Ti-48
Cross Section
-100.0 To 701.8 %
Max
Ratio
TENDL Threshold 20.351 MeV
JEFF3.3 Threshold 20.351 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12
8
4
0
20
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
22-Ti-48

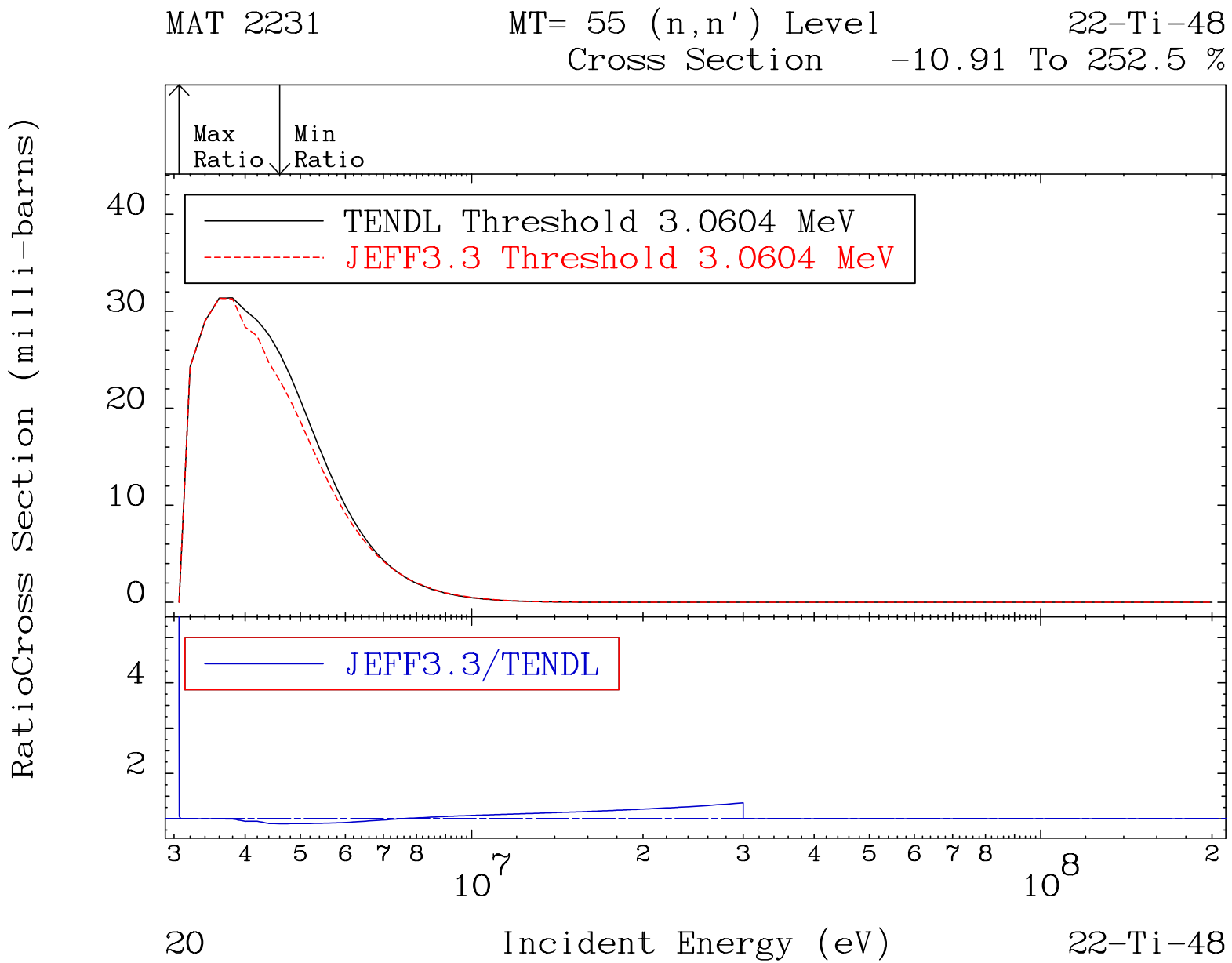

MAT 2231
(n,n') p α
22-Ti-48
Cross Section 0.000 To 4919. %
Min
Ratio
TENDL Threshold 22.087 MeV
JEFF3.3 Threshold 22.087 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.6
1.2
0.8
0.4
0.0
10^2
10^1
10^0
20
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
22-Ti-48

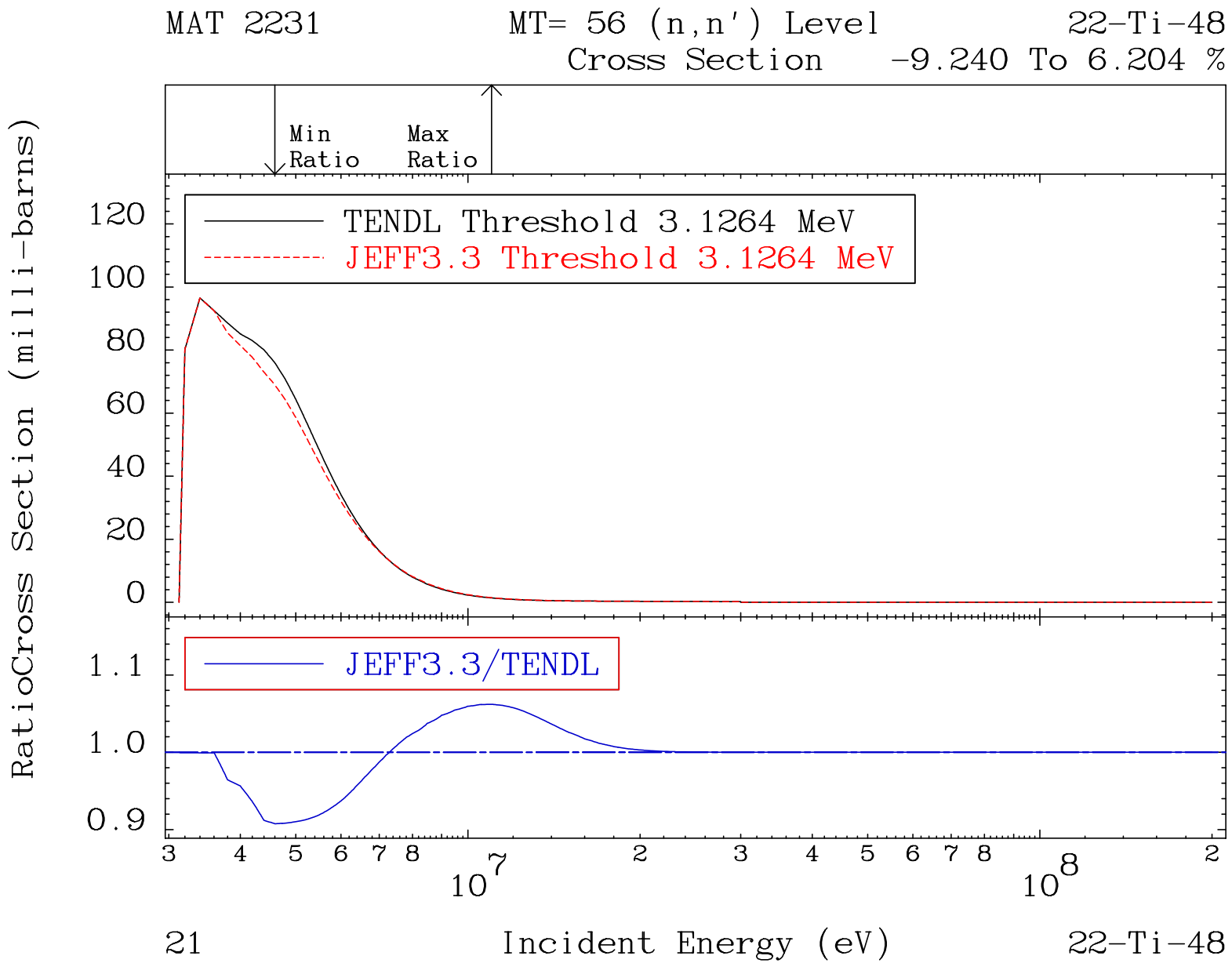

MAT 2231
MT= 51 (n,n') Level
22-Ti-48
Cross Section -100.0 To 0.221 %
Min Ratio
Max Ratio
TENDL Threshold 1.0042 MeV
JEFF3.3 Threshold 1.0042 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
10^6
10^7
10^8
Incident Energy (eV)
16
22-Ti-48

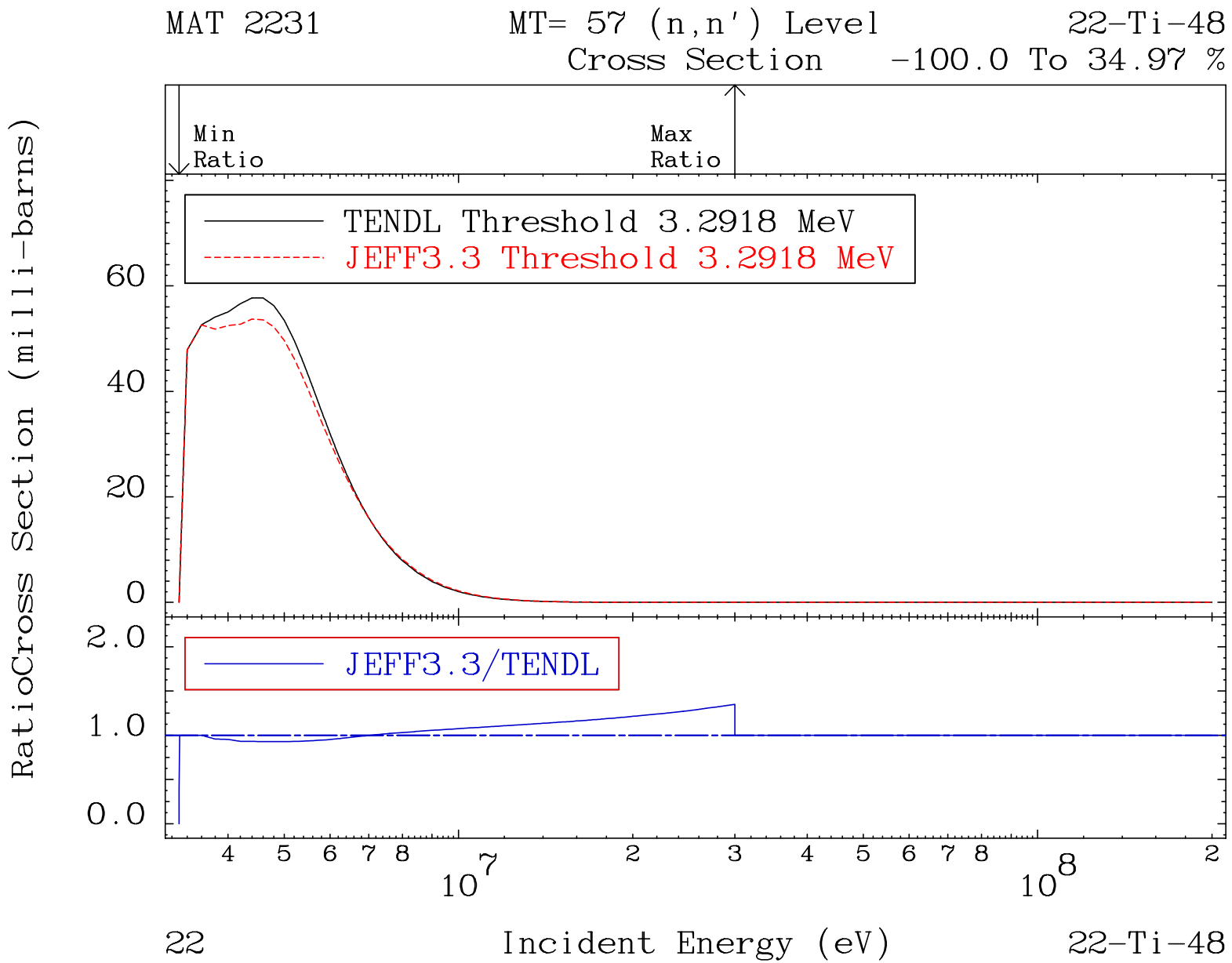

MAT 2231
MT= 52 (n,n') Level
22-Ti-48
Cross Section -100.0 To 1.219 %
Min Ratio
Max Ratio
TENDL Threshold 2.3439 MeV
JEFF3.3 Threshold 2.3439 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
22-Ti-48

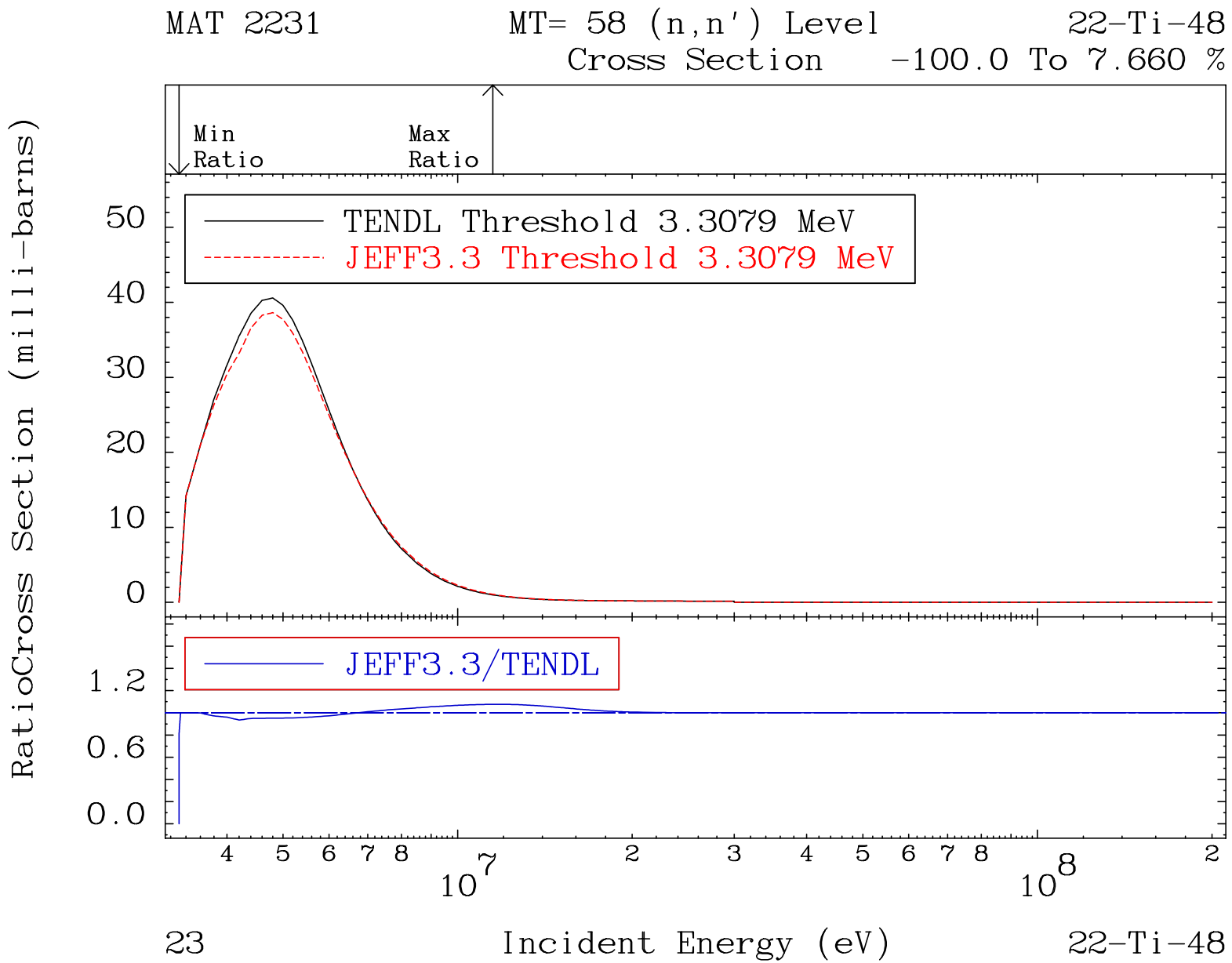

MAT 2231
MT= 53 (n,n') Level
22-Ti-48
Cross Section
-100.0 To 6.172 %
Min Ratio
Max Ratio
TENDL Threshold 2.4720 MeV
JEFF3.3 Threshold 2.4720 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
22-Ti-48

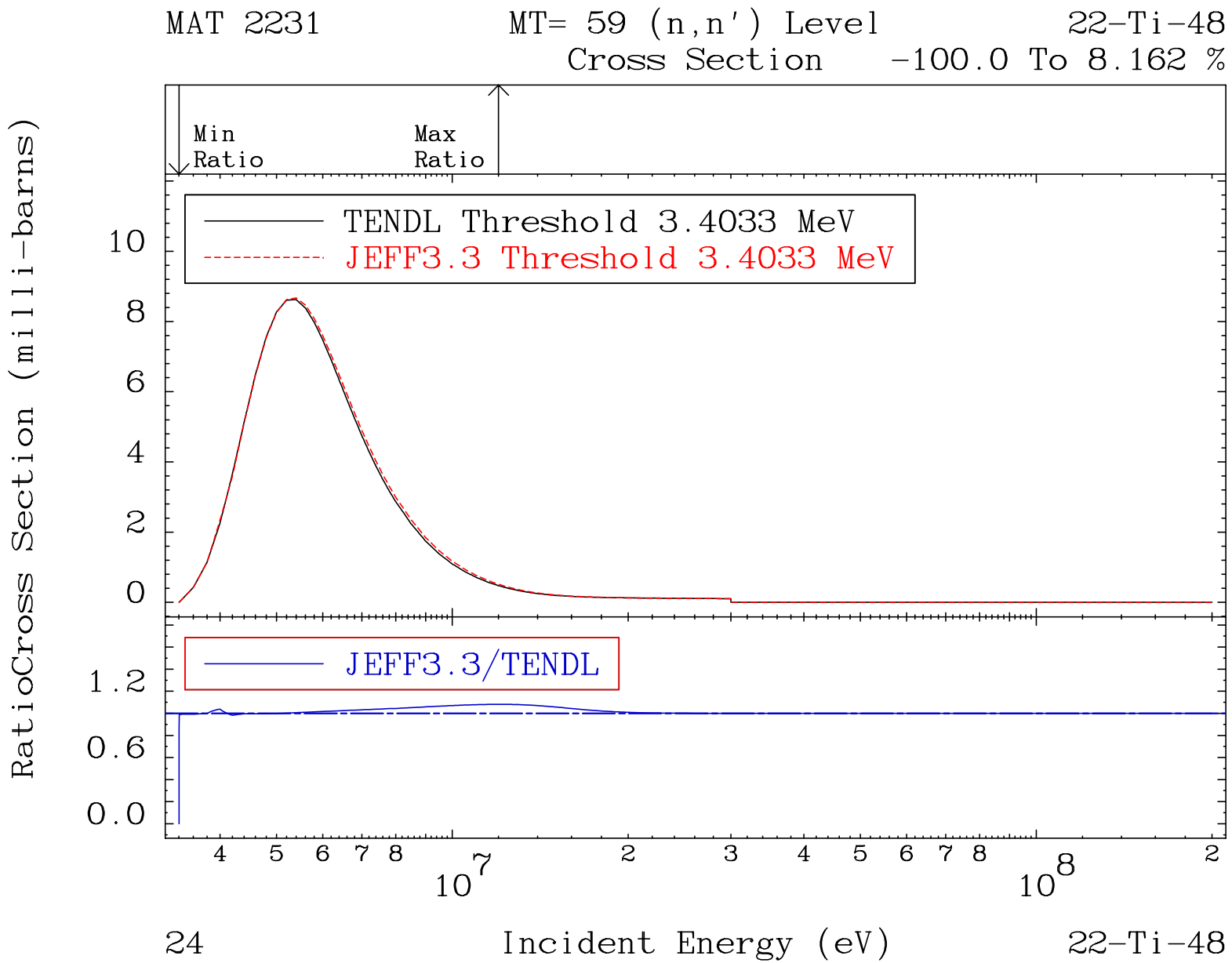

MAT 2231
MT= 54 (n,n') Level
22-Ti-48
Cross Section -100.0 To 34.95 %
Min Ratio
Max Ratio
TENDL Threshold 2.5169 MeV
JEFF3.3 Threshold 2.5169 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
22-Ti-48

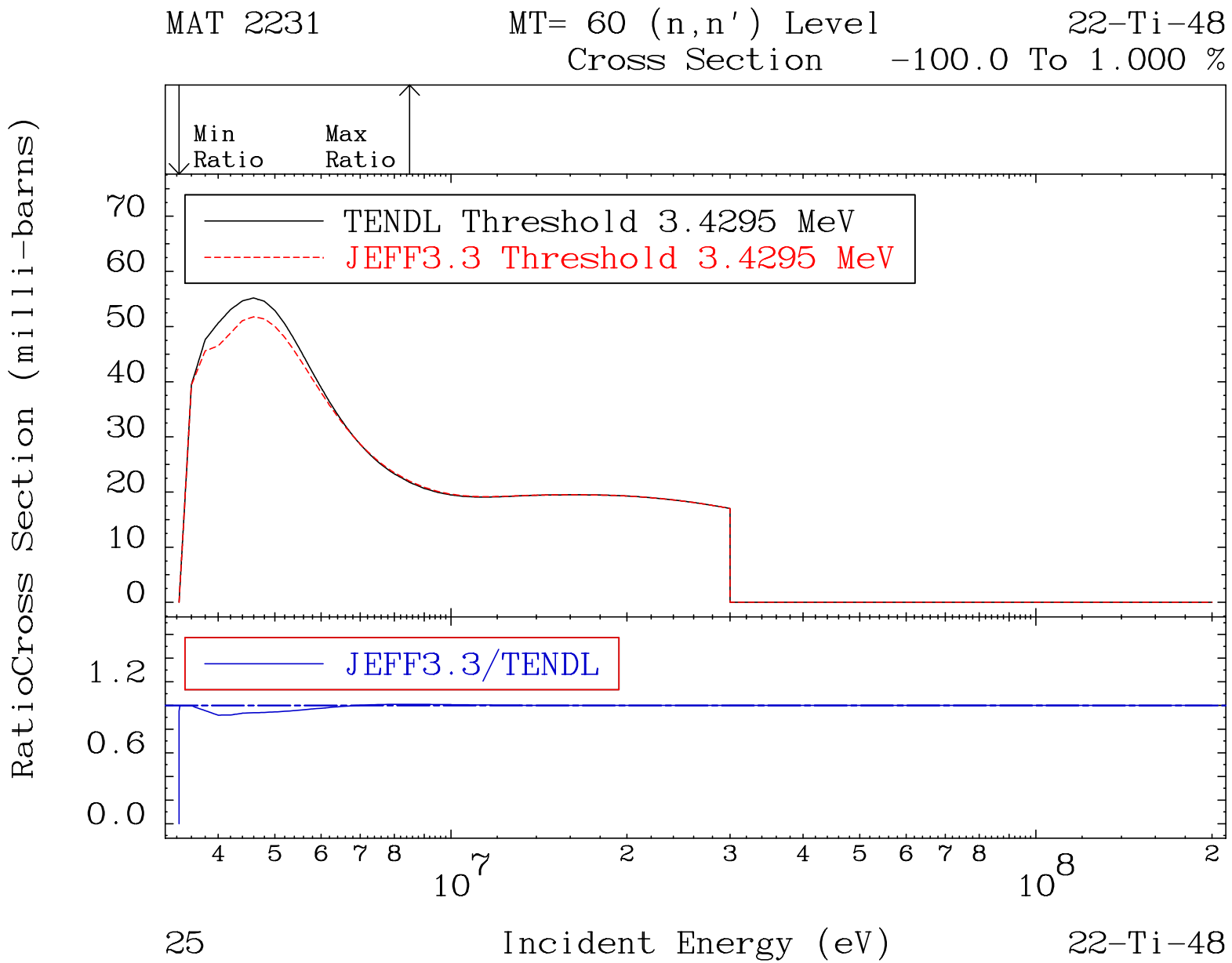

MAT 2231
MT= 55 (n,n') Level
22-Ti-48
Cross Section -10.91 To 252.5 %
Max Ratio
Min Ratio
TENDL Threshold 3.0604 MeV
JEFF3.3 Threshold 3.0604 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
20
22-Ti-48

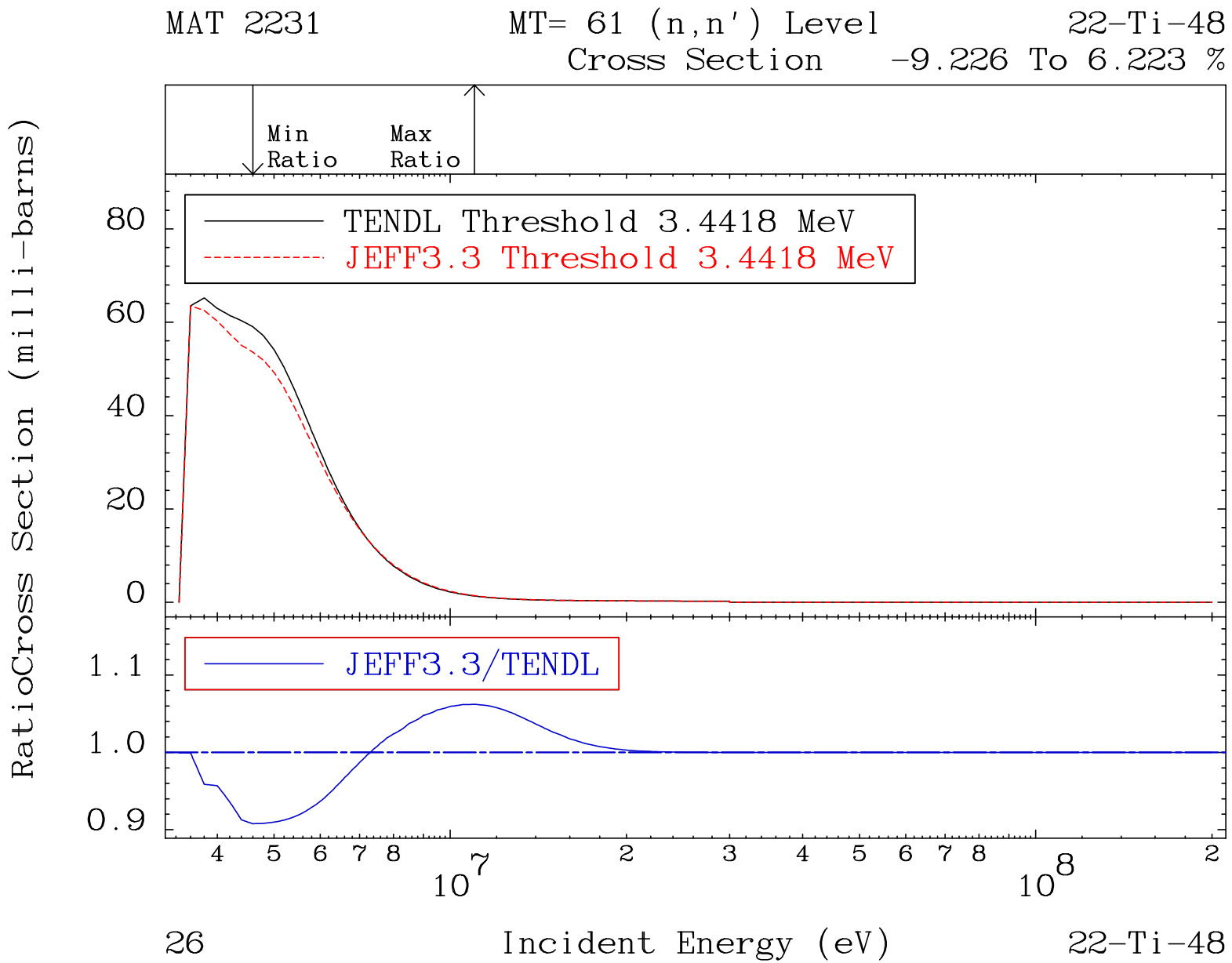

MAT 2231
MT= 56 (n,n') Level
22-Ti-48
Cross Section
-9.240 To 6.204 %
Min Ratio
Max Ratio
TENDL Threshold 3.1264 MeV
JEFF3.3 Threshold 3.1264 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.1
1.0
0.9
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
22-Ti-48

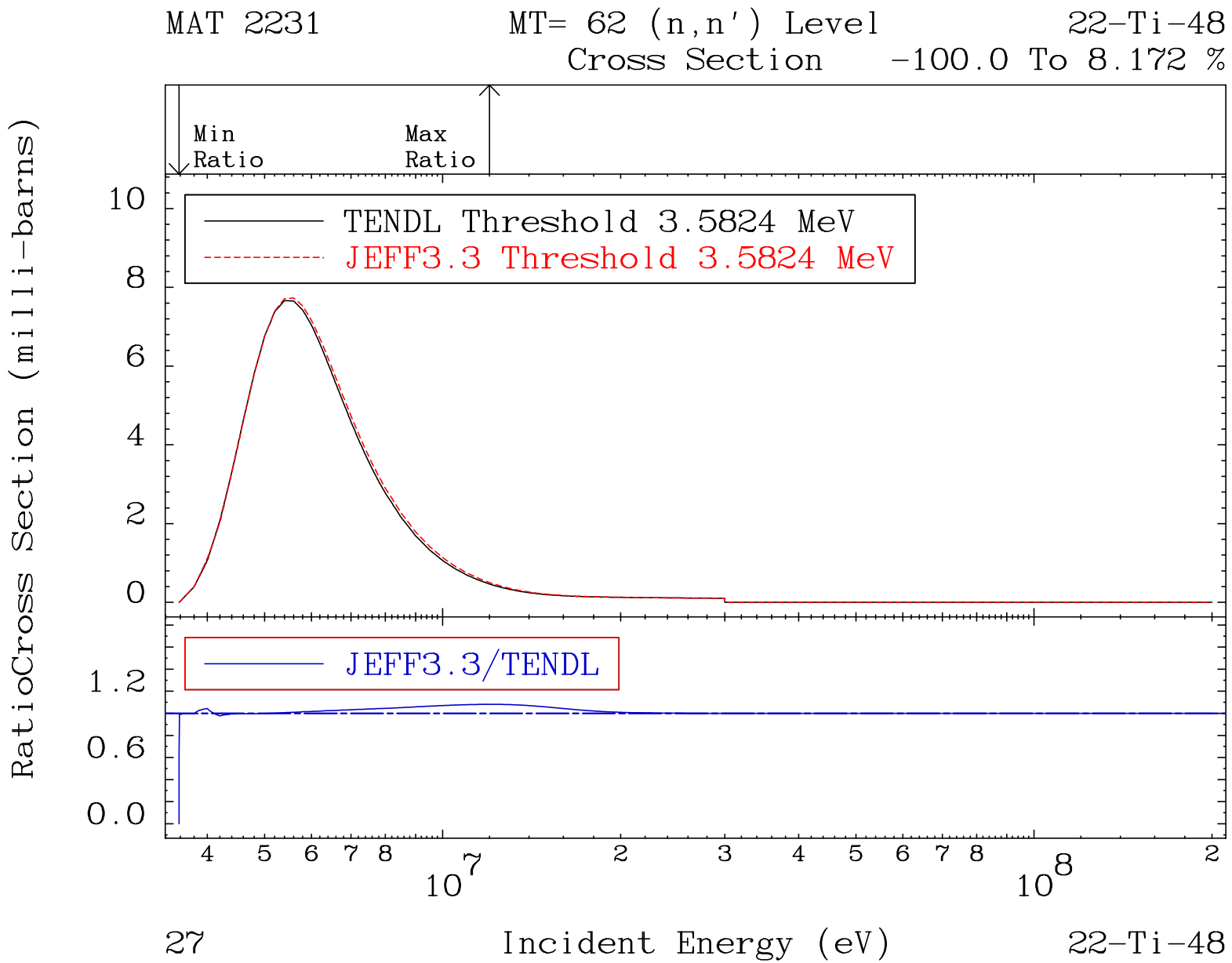

MAT 2231
MT= 57 (n,n') Level
22-Ti-48
Cross Section
-100.0 To 34.97 %
Min Ratio
Max Ratio
TENDL Threshold 3.2918 MeV
JEFF3.3 Threshold 3.2918 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
40
20
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
22-Ti-48

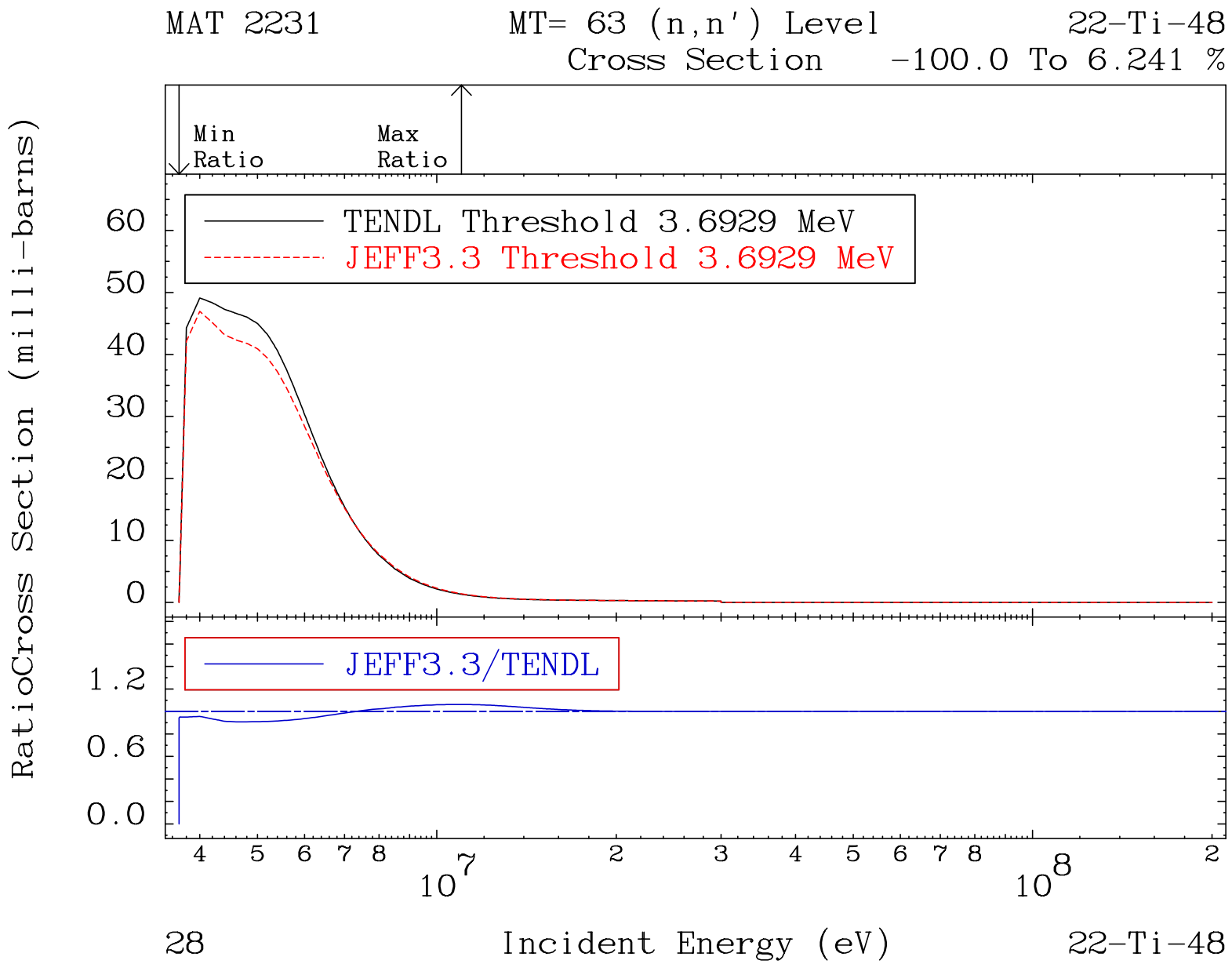

MAT 2231
MT= 58 (n,n') Level
22-Ti-48
Cross Section
-100.0 To 7.660 %
Min Ratio
Max Ratio
TENDL Threshold 3.3079 MeV
JEFF3.3 Threshold 3.3079 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.2
0.6
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
22-Ti-48

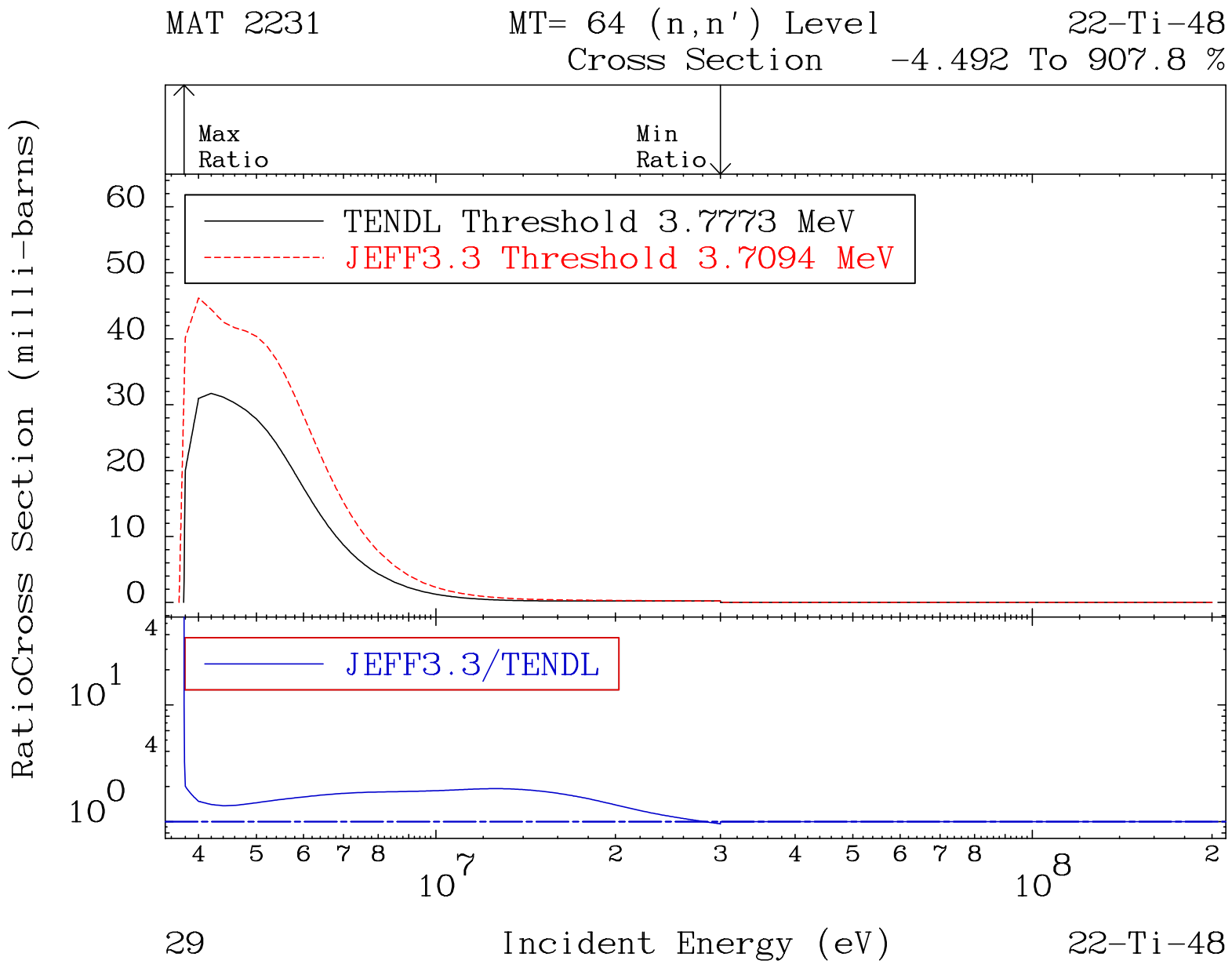

MAT 2231
MT= 59 (n,n') Level
22-Ti-48
Cross Section -100.0 To 8.162 %
Min Ratio
Max Ratio
TENDL Threshold 3.4033 MeV
JEFF3.3 Threshold 3.4033 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
1.2
0.6
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
22-Ti-48

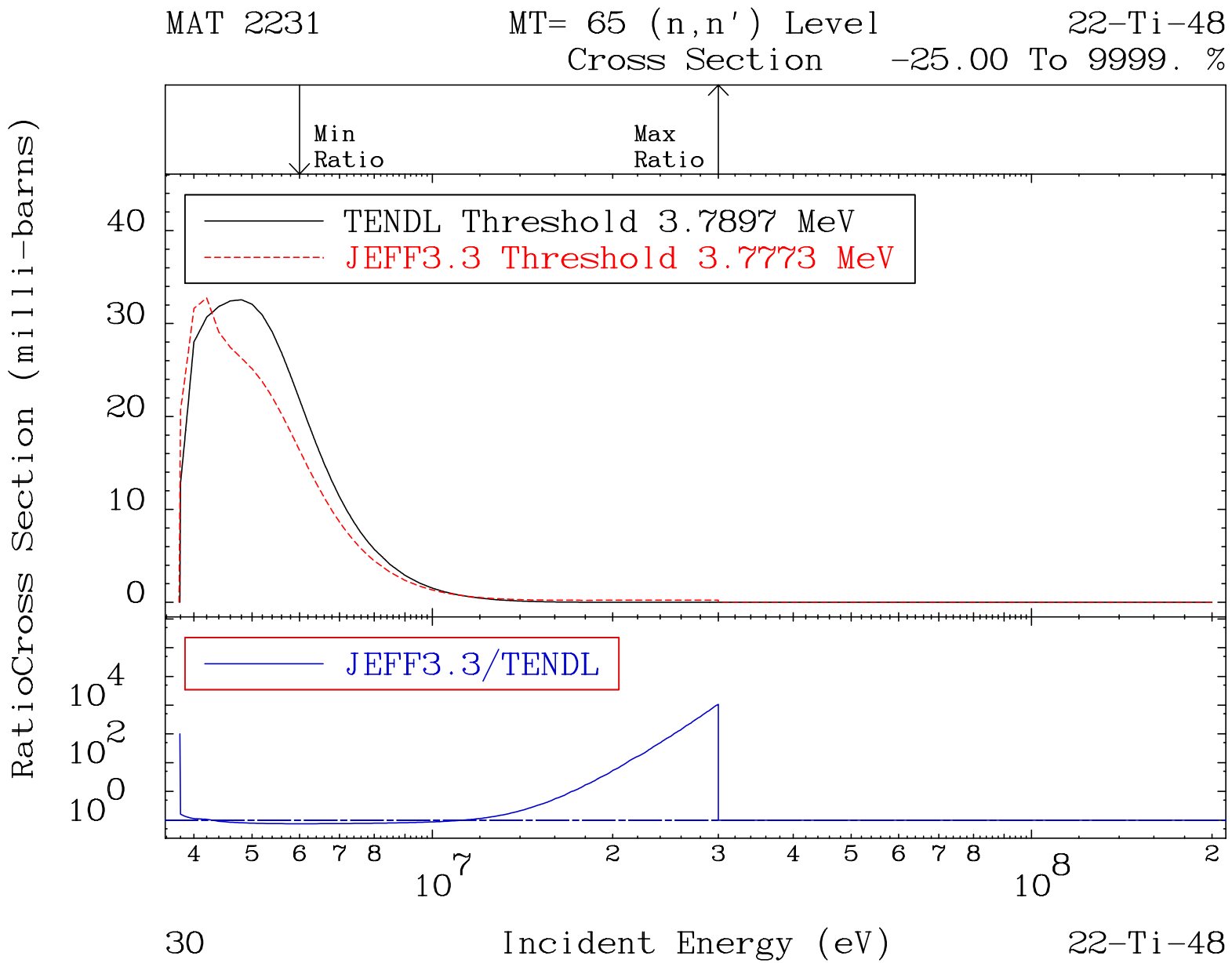

MAT 2231
MT= 60 (n,n') Level
22-Ti-48
Cross Section -100.0 To 1.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.4295 MeV
JEFF3.3 Threshold 3.4295 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
1.2
0.6
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
22-Ti-48

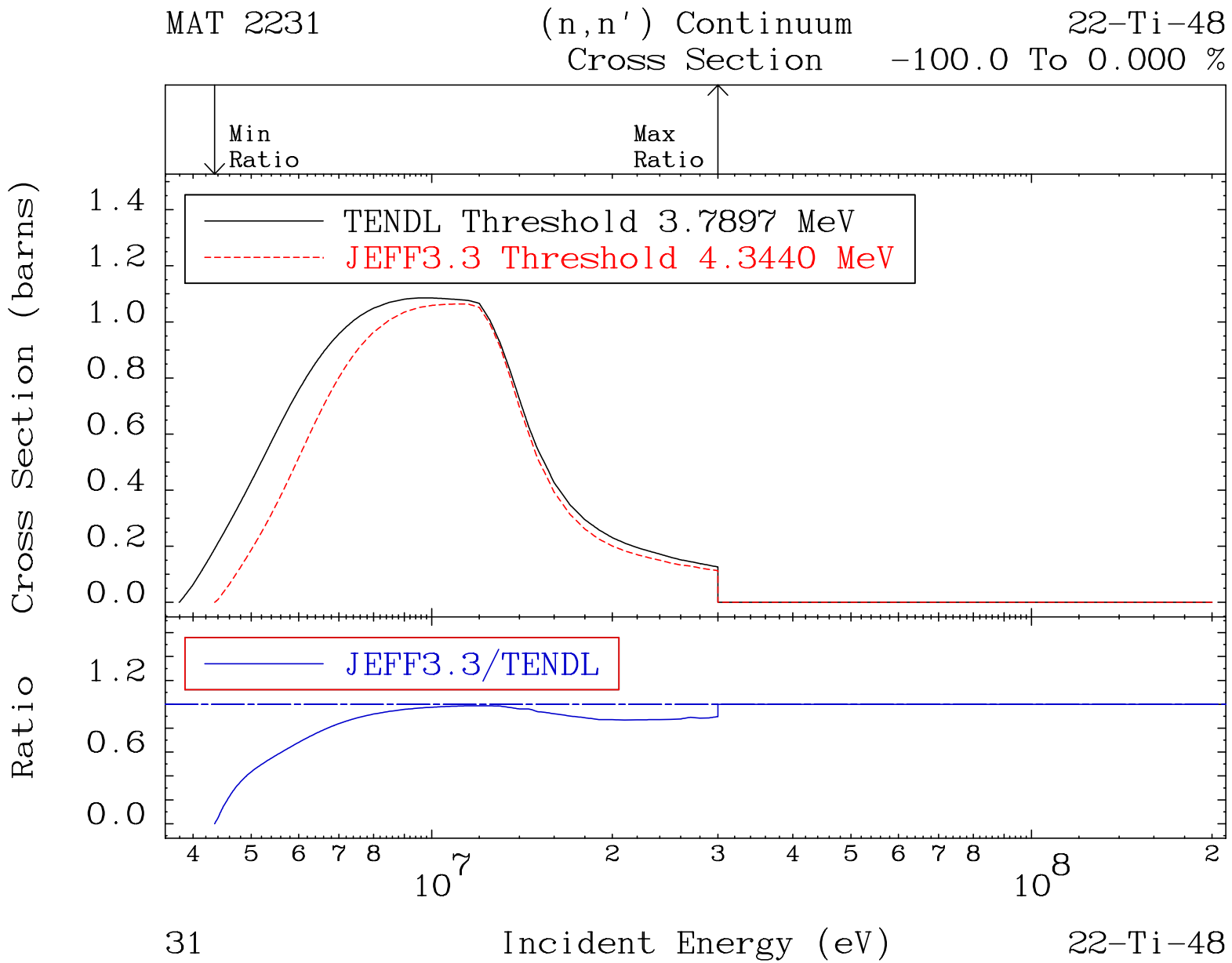

MAT 2231
MT= 61 (n,n') Level
22-Ti-48
Cross Section
-9.226 To 6.223 %
Min Ratio
Max Ratio
TENDL Threshold 3.4418 MeV
JEFF3.3 Threshold 3.4418 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.1
1.0
0.9
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
26
22-Ti-48

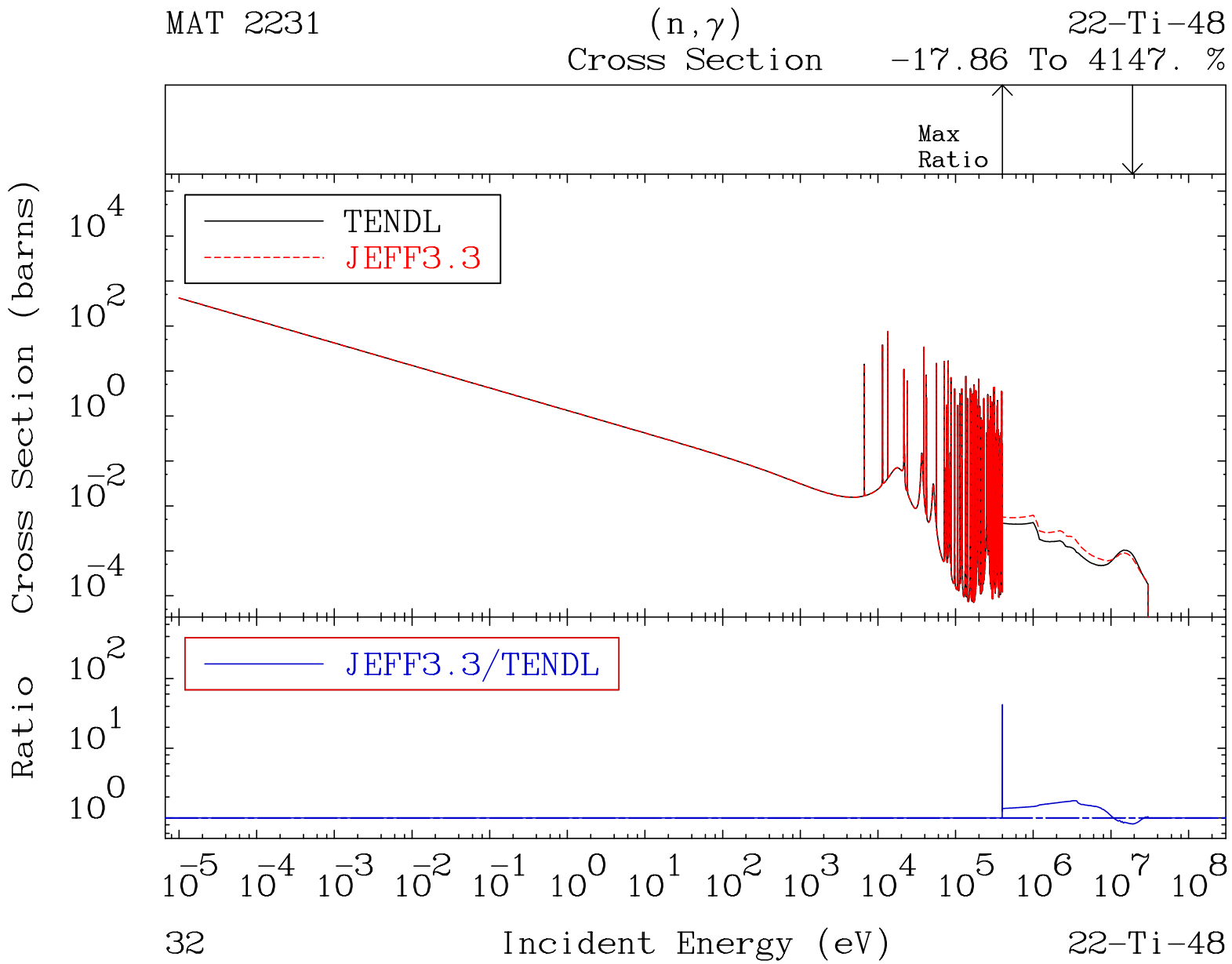

MAT 2231
MT= 62 (n,n') Level
22-Ti-48
Cross Section
-100.0 To 8.172 %
Min Ratio
Max Ratio
TENDL Threshold 3.5824 MeV
JEFF3.3 Threshold 3.5824 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
1.2
0.6
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
22-Ti-48

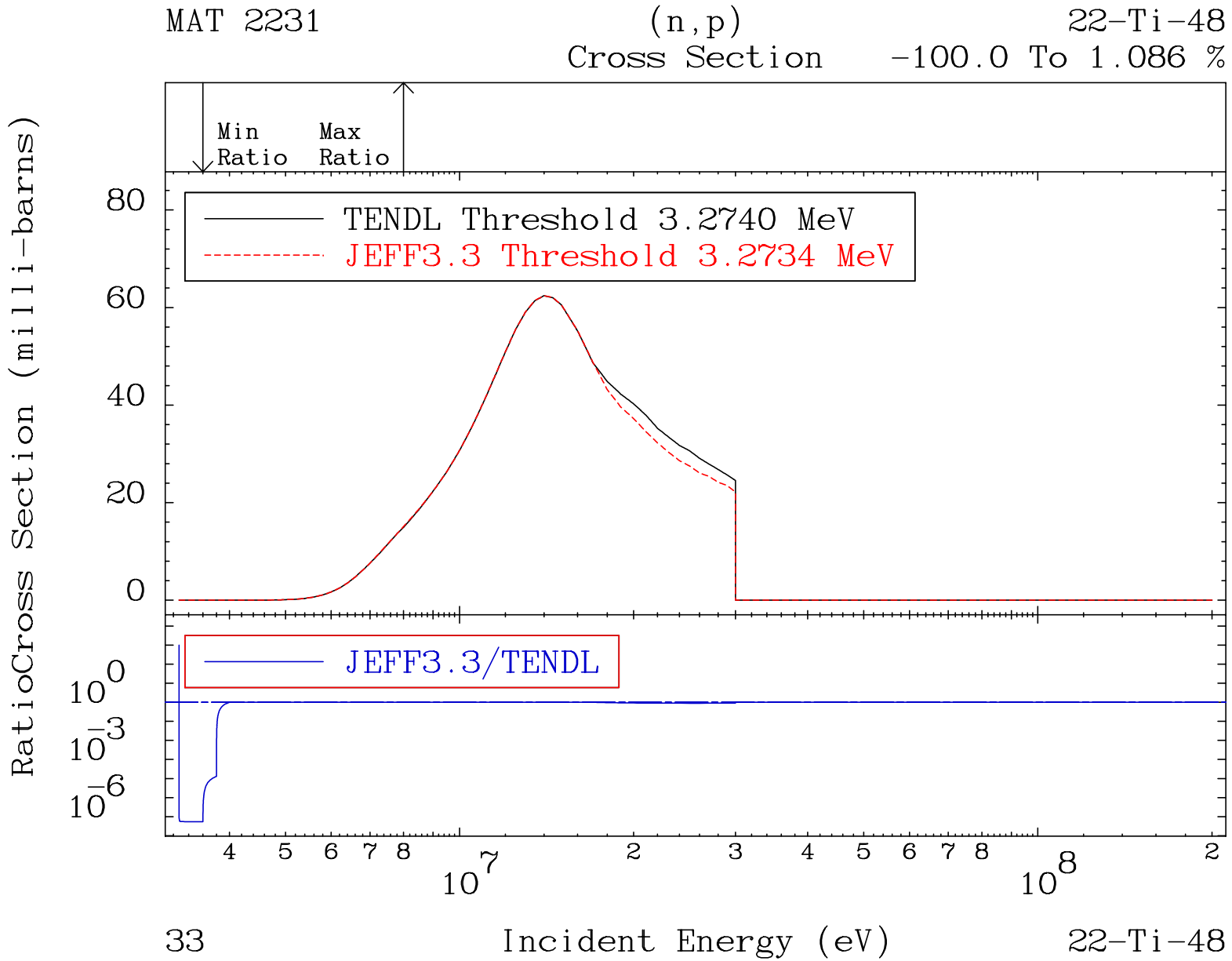

MAT 2231
MT= 63 (n,n') Level
22-Ti-48
Cross Section
-100.0 To 6.241 %
Min Ratio
Max Ratio
TENDL Threshold 3.6929 MeV
JEFF3.3 Threshold 3.6929 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.2
0.6
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
22-Ti-48

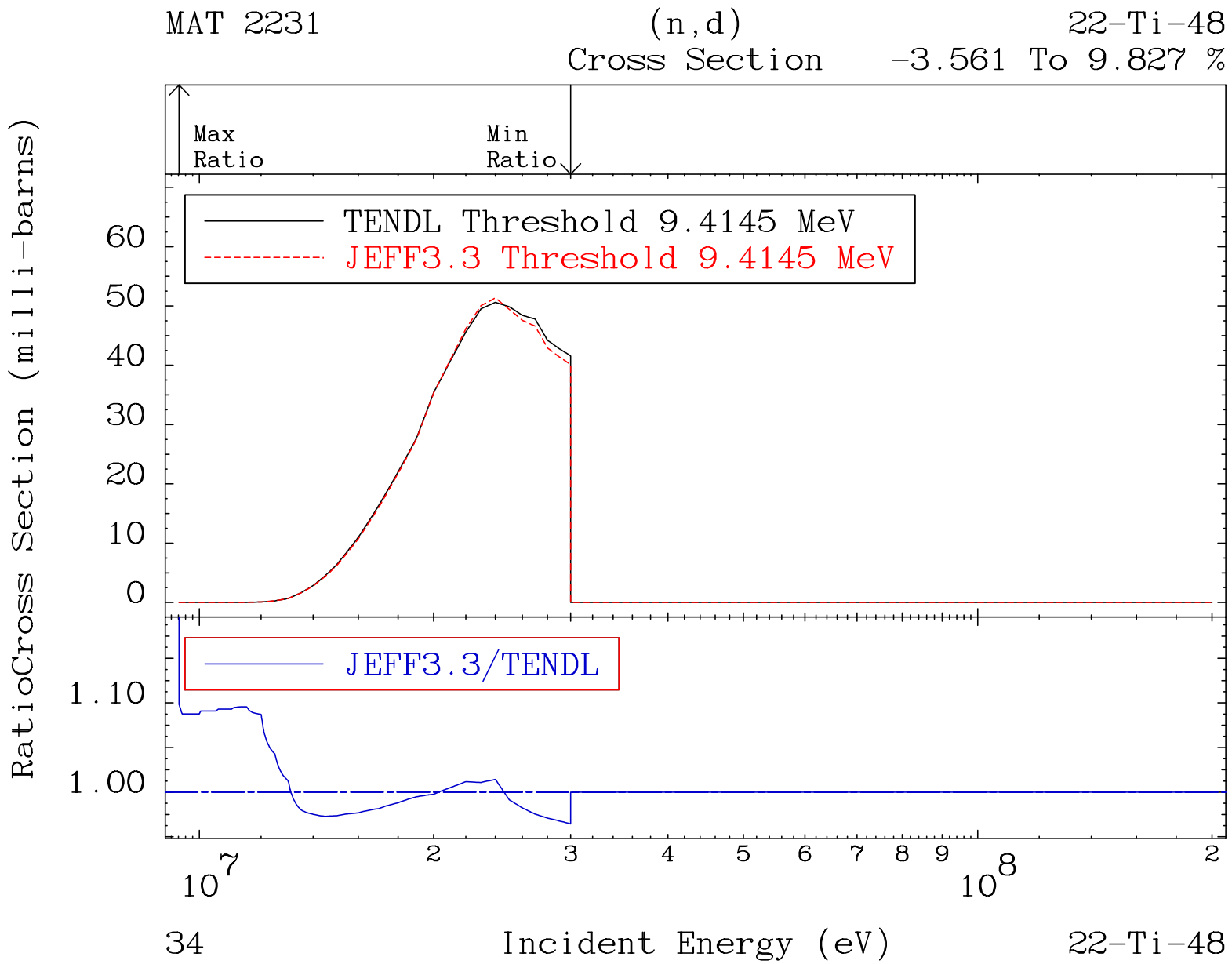

MAT 2231
MT= 64 (n,n') Level
22-Ti-48
Cross Section
-4.492 To 907.8 %
Max Ratio
Min Ratio
TENDL Threshold 3.7773 MeV
JEFF3.3 Threshold 3.7094 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
4
10^1
4
10^0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
22-Ti-48

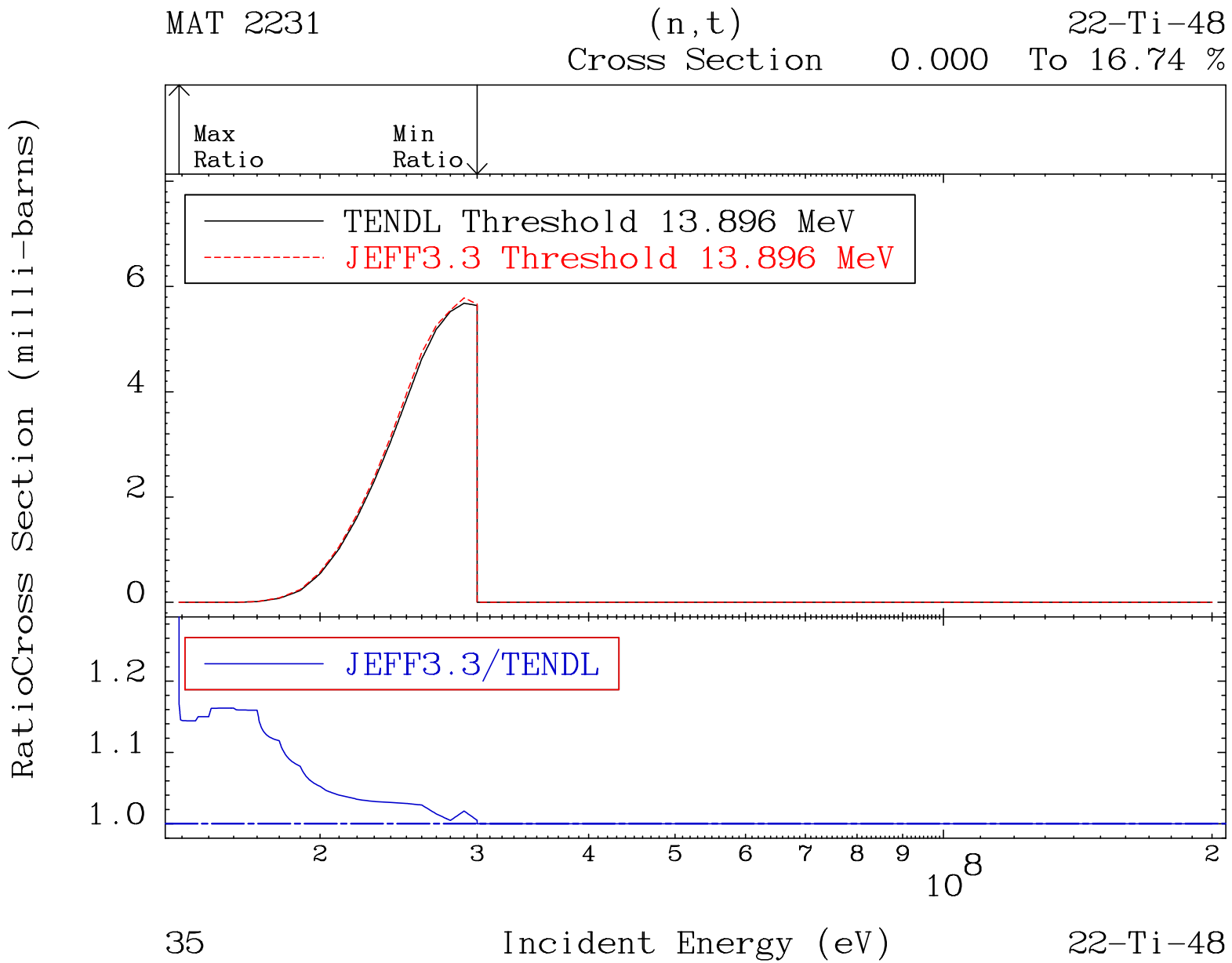

MAT 2231
MT= 65 (n,n') Level
22-Ti-48
Cross Section -25.00 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.7897 MeV
JEFF3.3 Threshold 3.7773 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10^4
10^2
10^0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
22-Ti-48

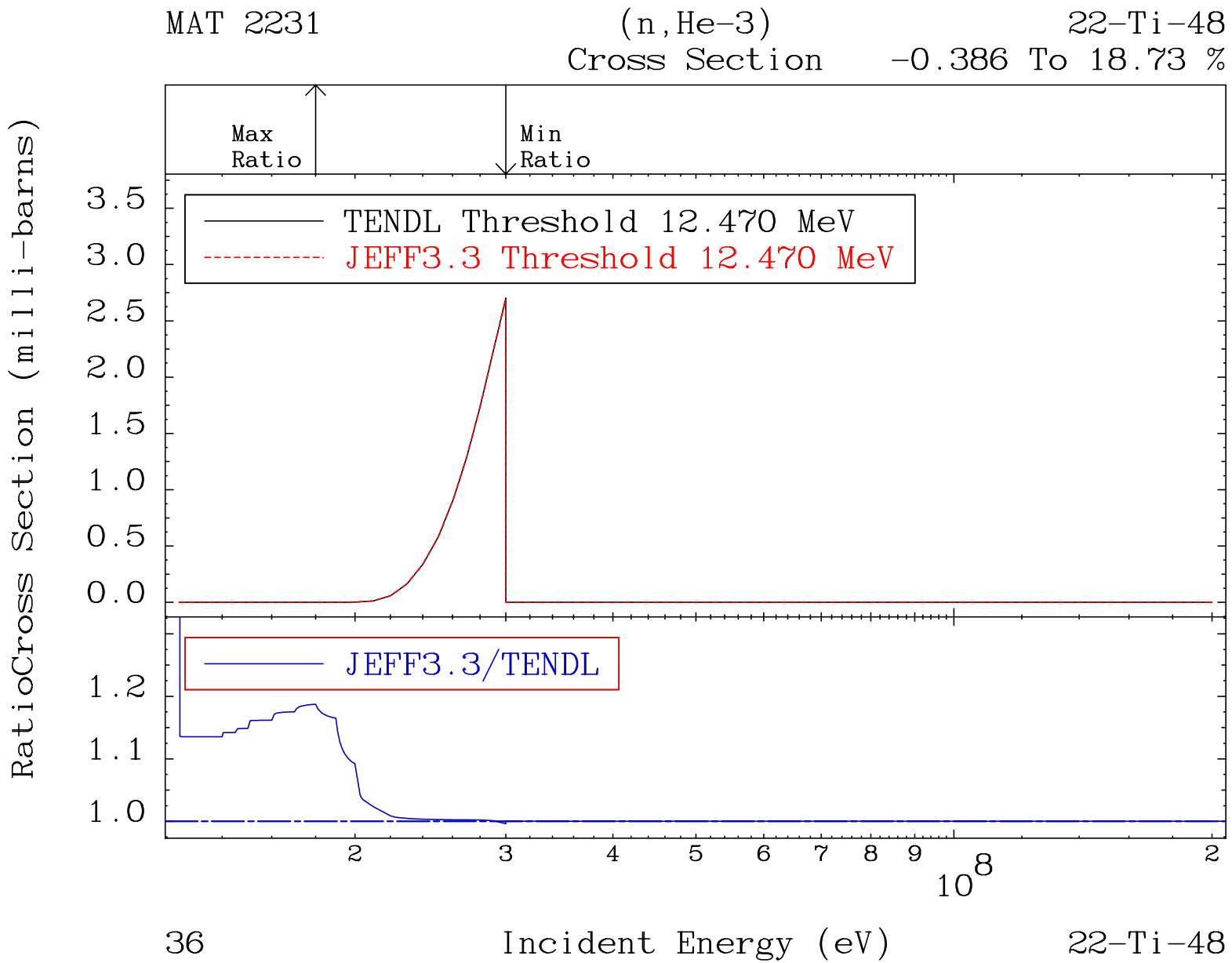

MAT 2231
(n,n') Continuum
Cross Section
22-Ti-48
-100.0 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.7897 MeV
JEFF3.3 Threshold 4.3440 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.2
0.6
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
22-Ti-48

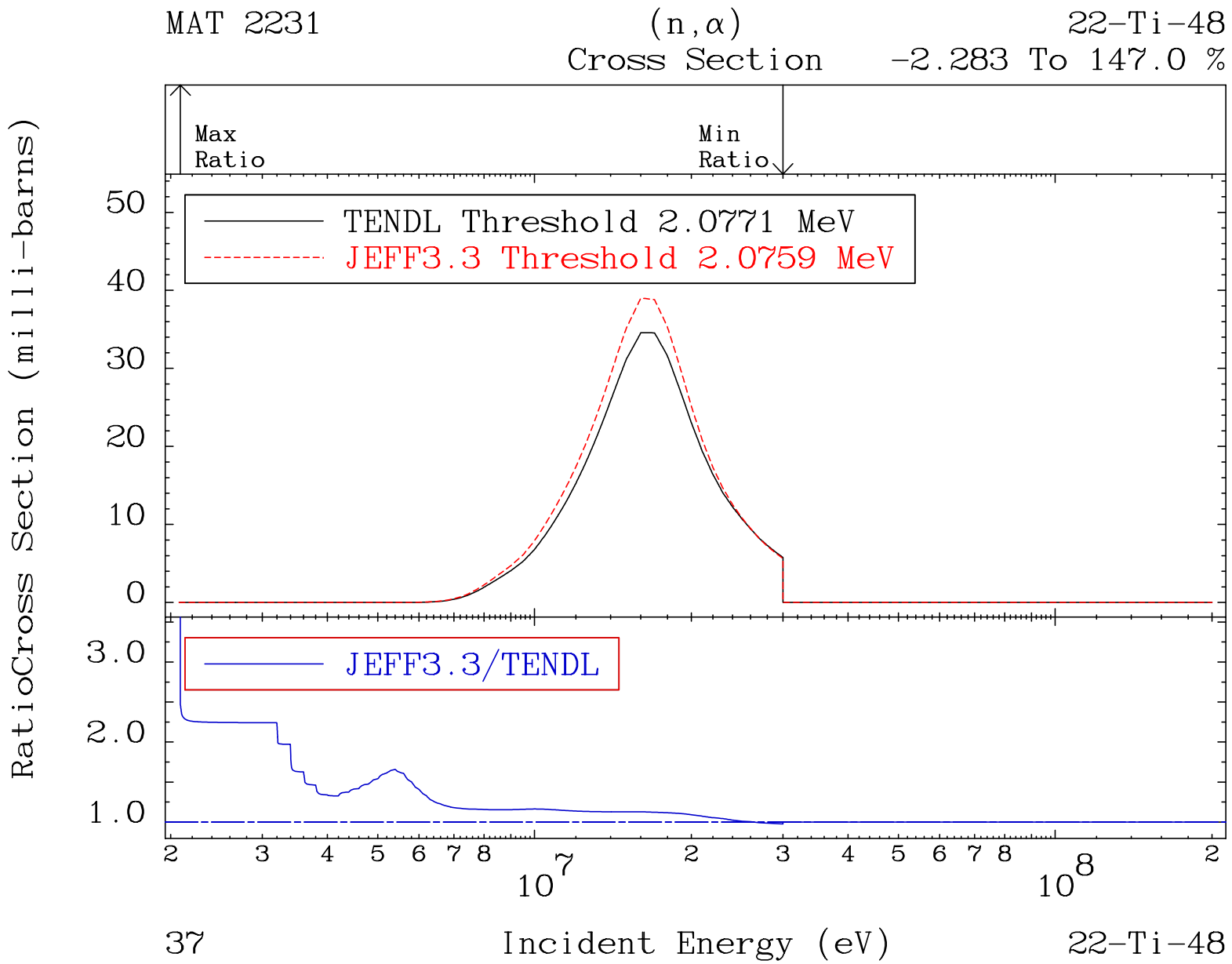

MAT 2231
(n,γ)
22-Ti-48
Cross Section
-17.86 To 4147. %
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
32
22-Ti-48

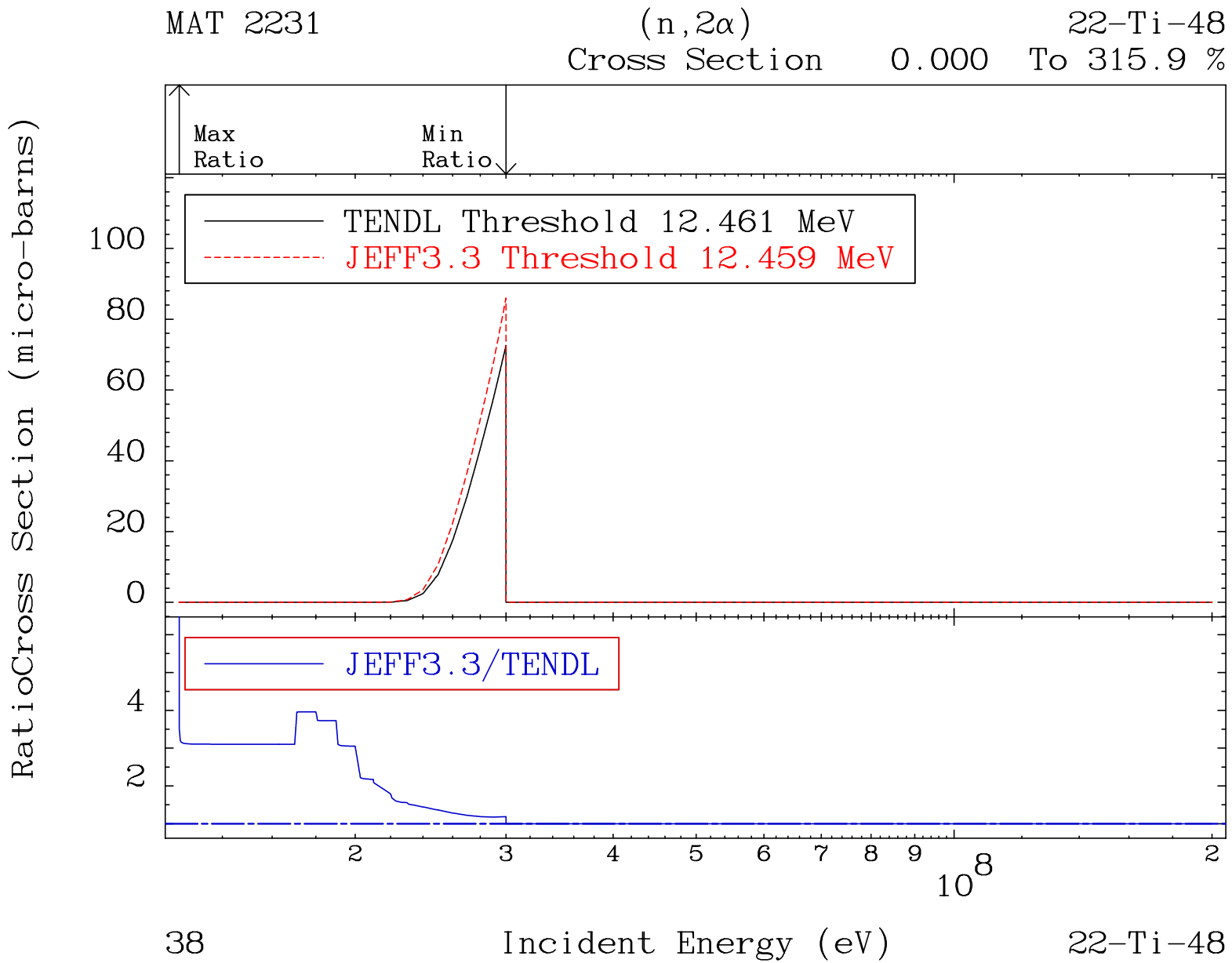

MAT 2231
(n,p)
22-Ti-48
Cross Section
-100.0 To 1.086 %
Min Ratio
Max Ratio
TENDL Threshold 3.2740 MeV
JEFF3.3 Threshold 3.2734 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
33
22-Ti-48

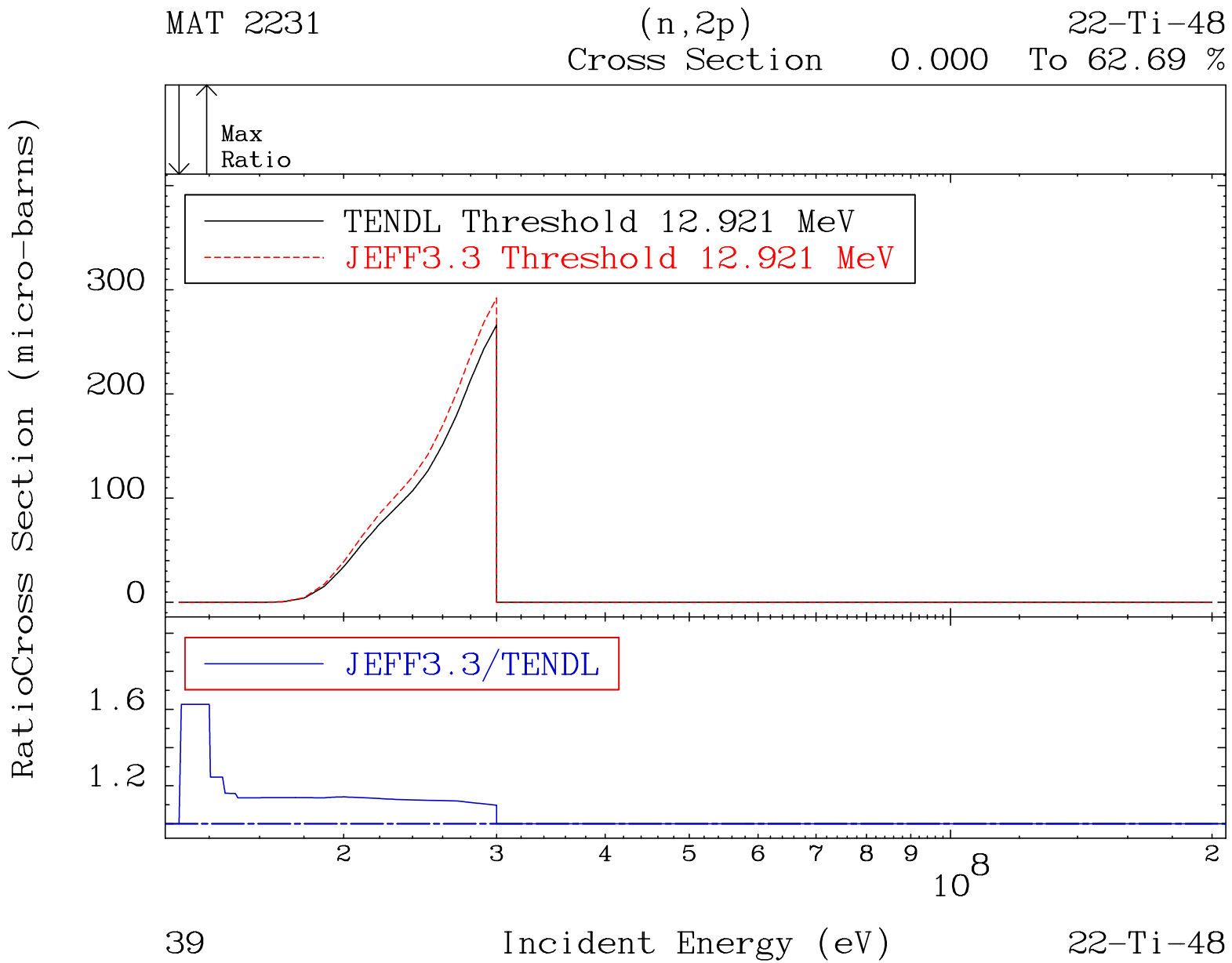

MAT 2231
(n,d)
Cross Section
22-Ti-48
-3.561 To 9.827 %
Max Ratio
Min Ratio
TENDL Threshold 9.4145 MeV
JEFF3.3 Threshold 9.4145 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.10
1.00
10^7
2
3
4
5
6
7
8
9
10^8
2
34
Incident Energy (eV)
22-Ti-48

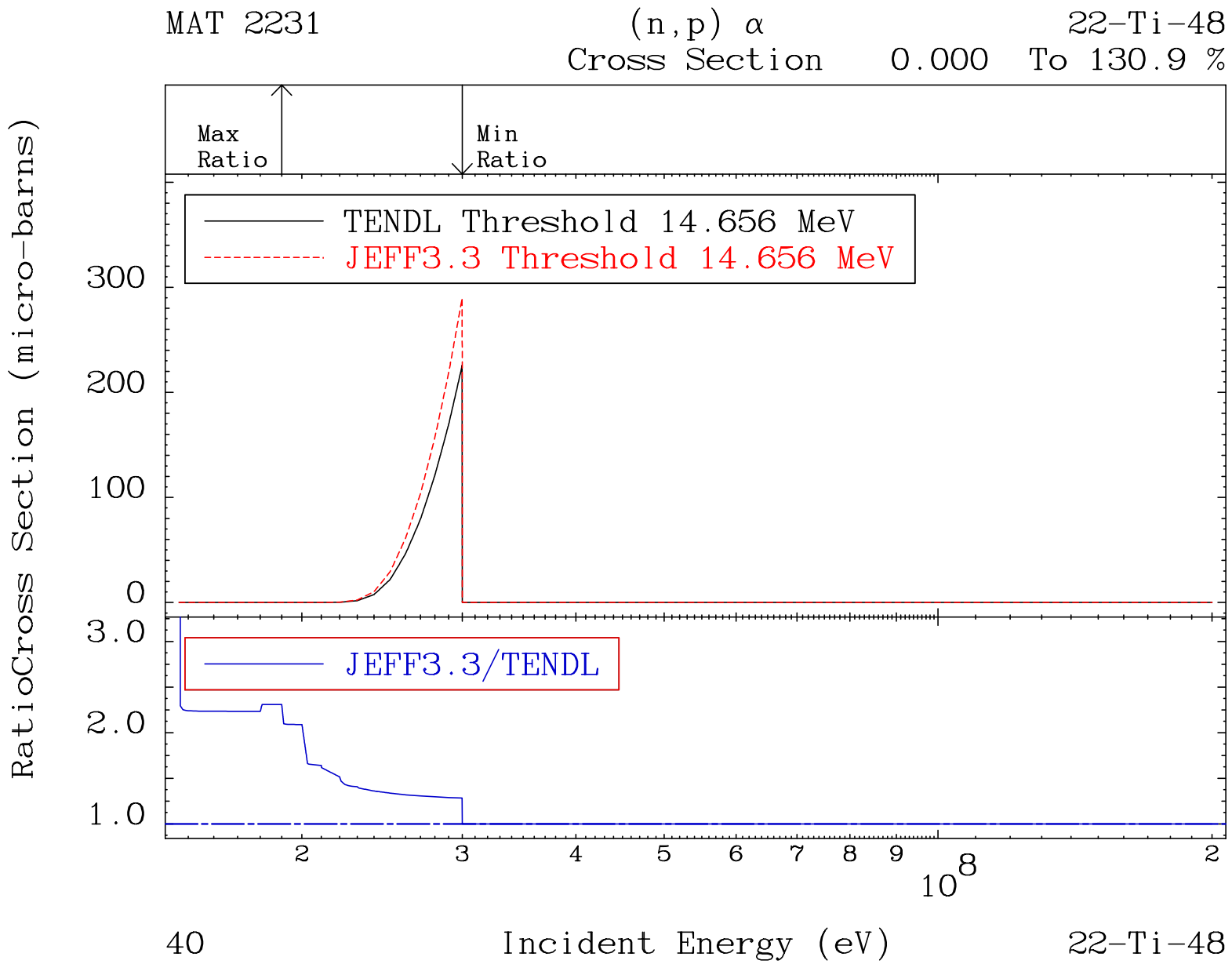

MAT 2231
(n,t)
22-Ti-48
Cross Section
0.000
To 16.74 %
Max Ratio
Min Ratio
TENDL Threshold 13.896 MeV
JEFF3.3 Threshold 13.896 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
6
4
2
0
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
35
Incident Energy (eV)
22-Ti-48

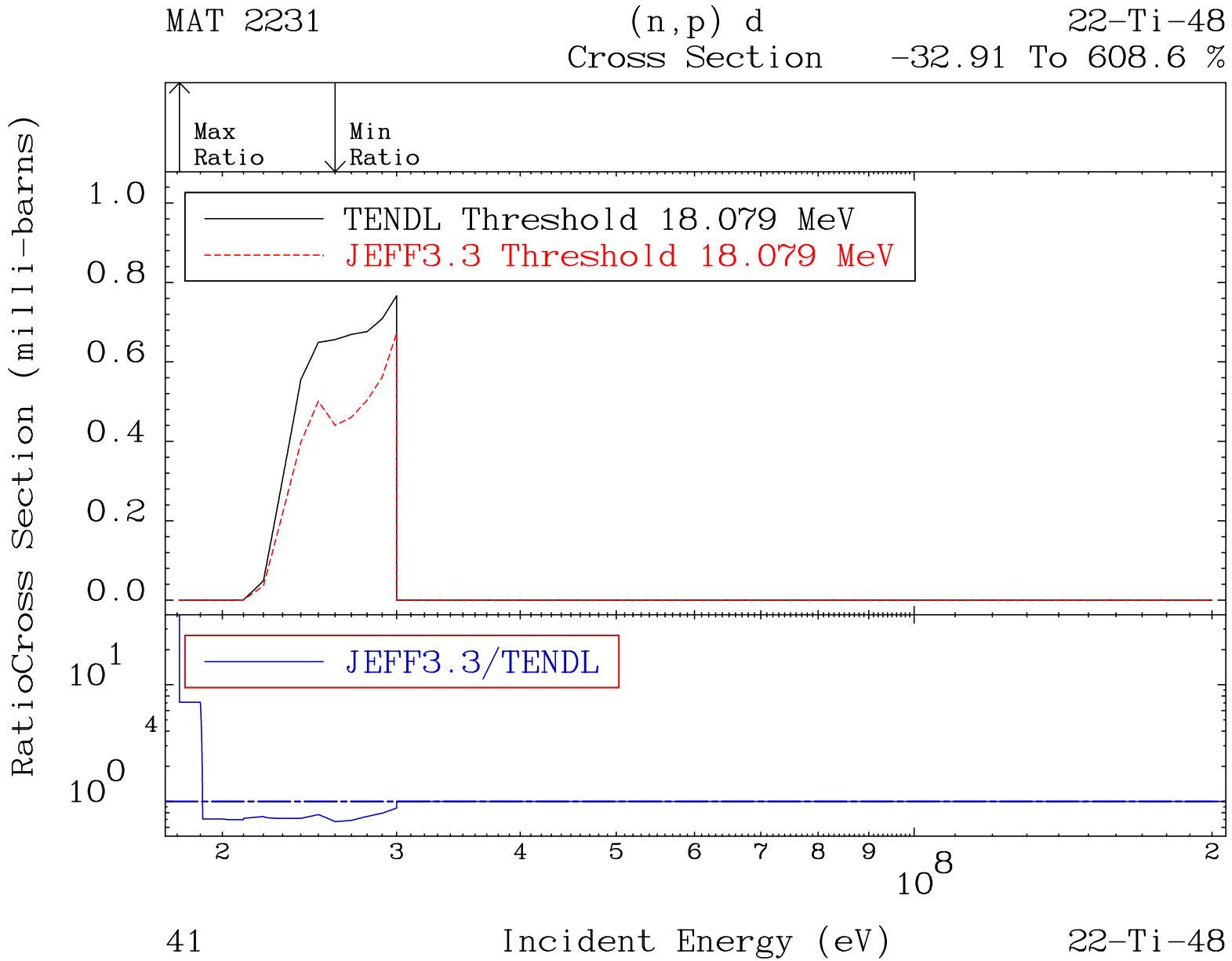

MAT 2231
(n,He-3)
22-Ti-48
Cross Section
-0.386 To 18.73 %
Max Ratio
Min Ratio
TENDL Threshold 12.470 MeV
JEFF3.3 Threshold 12.470 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
36
Incident Energy (eV)
22-Ti-48

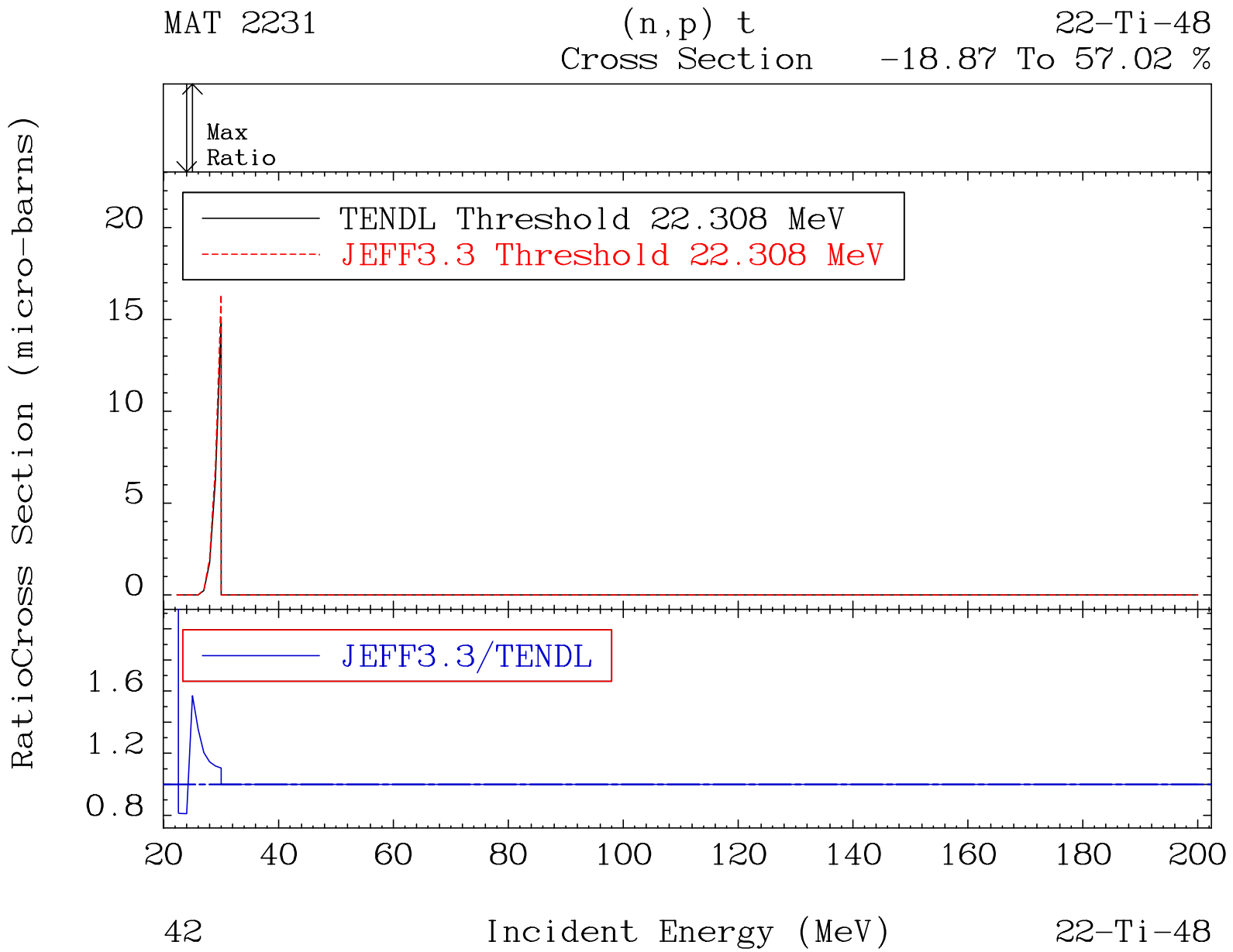

MAT 2231
(n,α)
Cross Section
22-Ti-48
-2.283 To 147.0 %
Max Ratio
Min Ratio
TENDL Threshold 2.0771 MeV
JEFF3.3 Threshold 2.0759 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
3.0
2.0
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
22-Ti-48

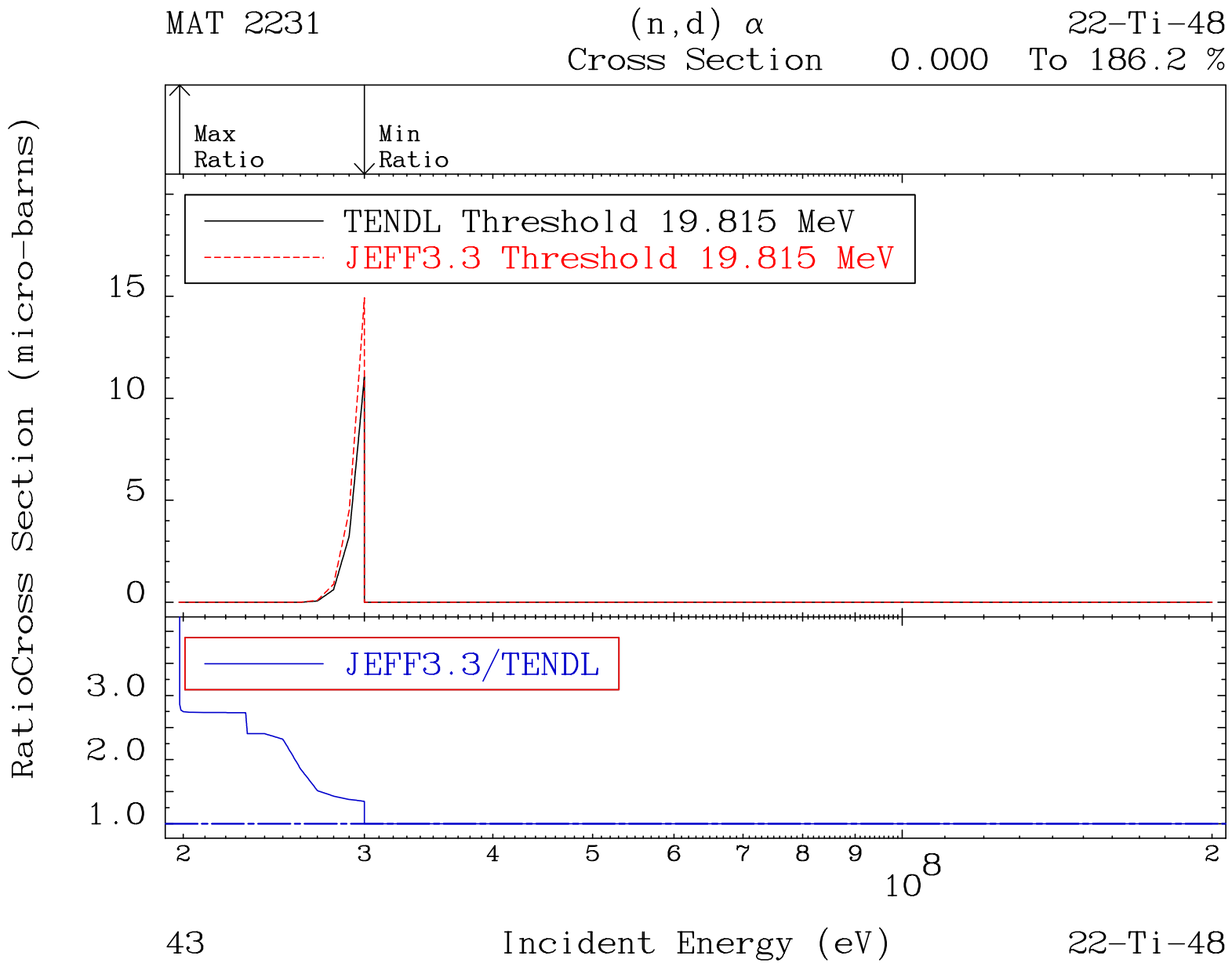

MAT 2231
(n,2α)
22-Ti-48
Cross Section 0.000 To 315.9 %
Max Ratio
Min Ratio
TENDL Threshold 12.461 MeV
JEFF3.3 Threshold 12.459 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
100
80
60
40
20
0
4
2
2
3
4
5
6
7
8
9
10^8
2
38
Incident Energy (eV)
22-Ti-48

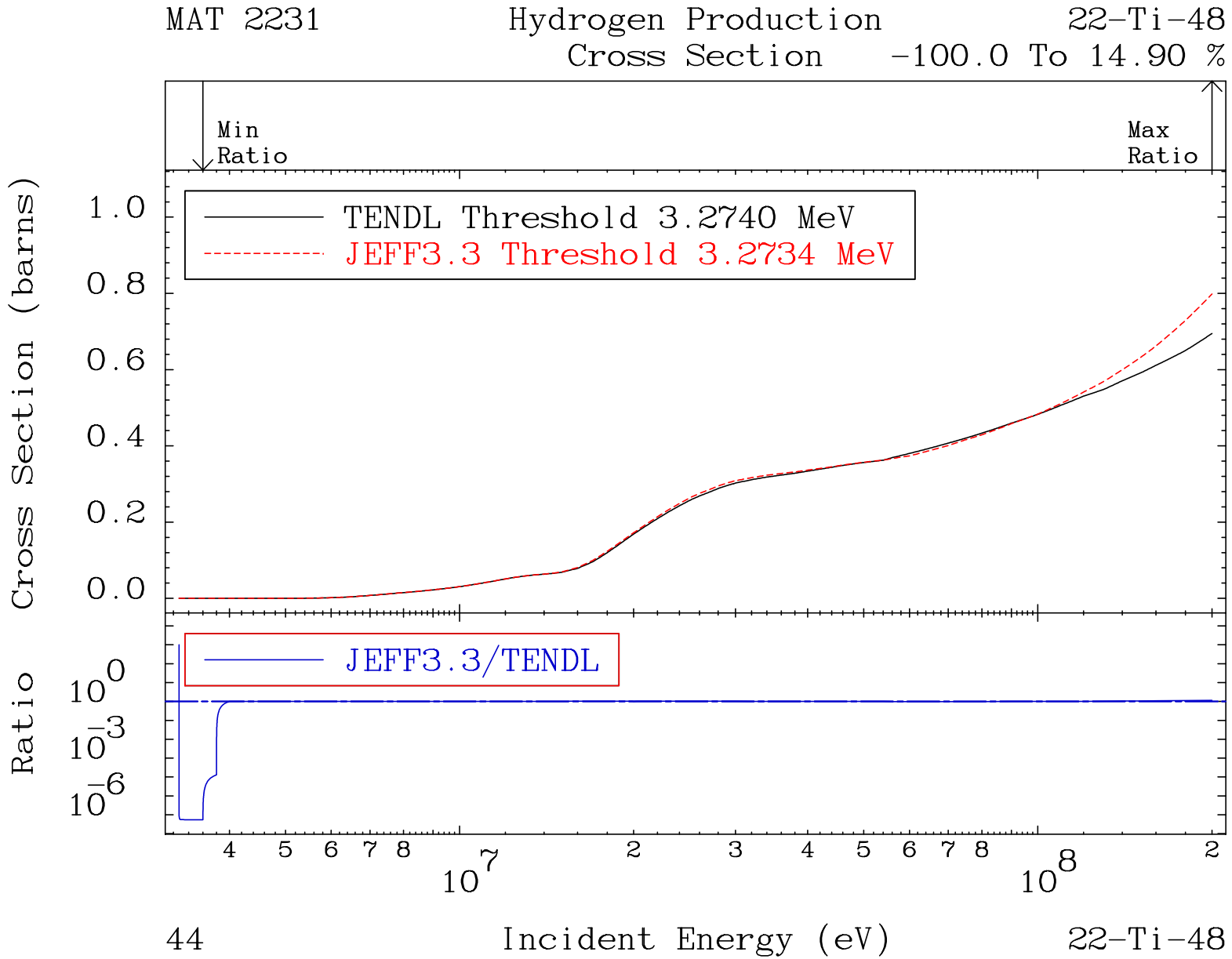

MAT 2231
(n,2p)
22-Ti-48
Cross Section 0.000 To 62.69 %
Max
Ratio
TENDL Threshold 12.921 MeV
JEFF3.3 Threshold 12.921 MeV
300
200
100
0
JEFF3.3/TENDL
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (micro-barns)
39
Incident Energy (eV)
22-Ti-48

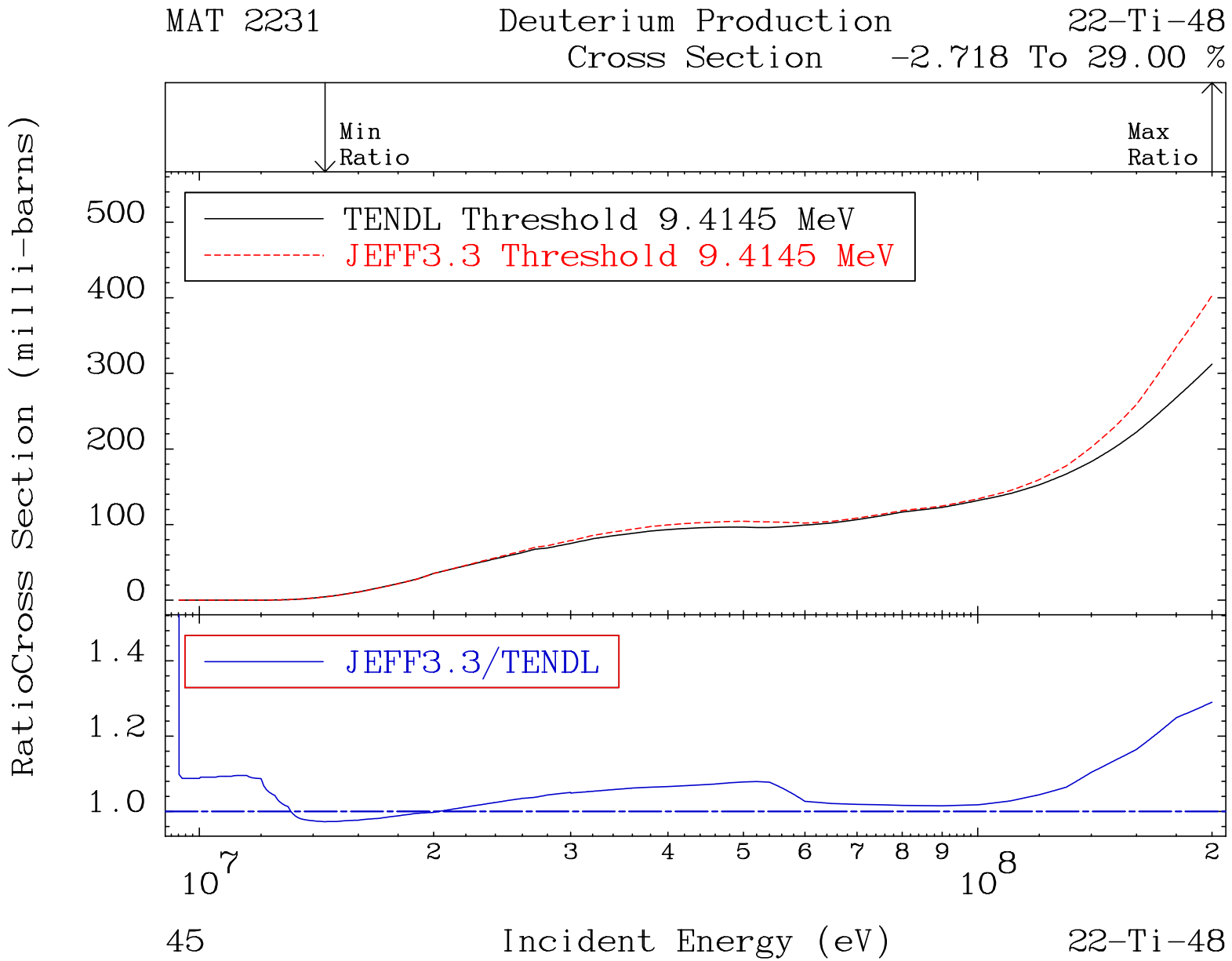

MAT 2231
(n,p) α
22-Ti-48
Cross Section 0.000 To 130.9 %
Max Ratio
Min Ratio
TENDL Threshold 14.656 MeV
JEFF3.3 Threshold 14.656 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
300
200
100
0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
40
Incident Energy (eV)
22-Ti-48

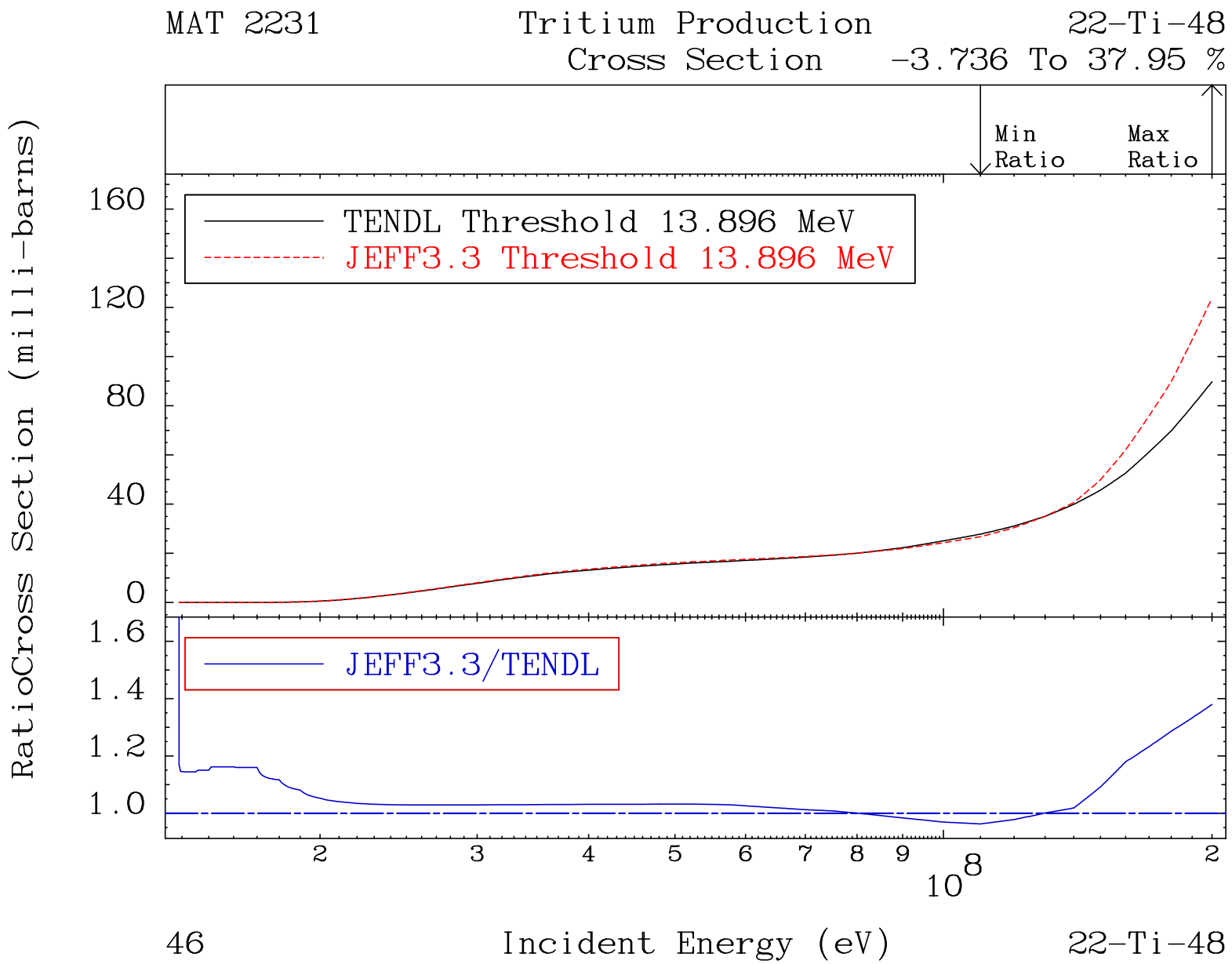

MAT 2231
(n,p) d
Cross Section
22-Ti-48
-32.91 To 608.6 %
Max Ratio
Min Ratio
TENDL Threshold 18.079 MeV
JEFF3.3 Threshold 18.079 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
10^1
10^0
4
2
3
4
5
6
7
8
9
10^8
2
41
Incident Energy (eV)
22-Ti-48

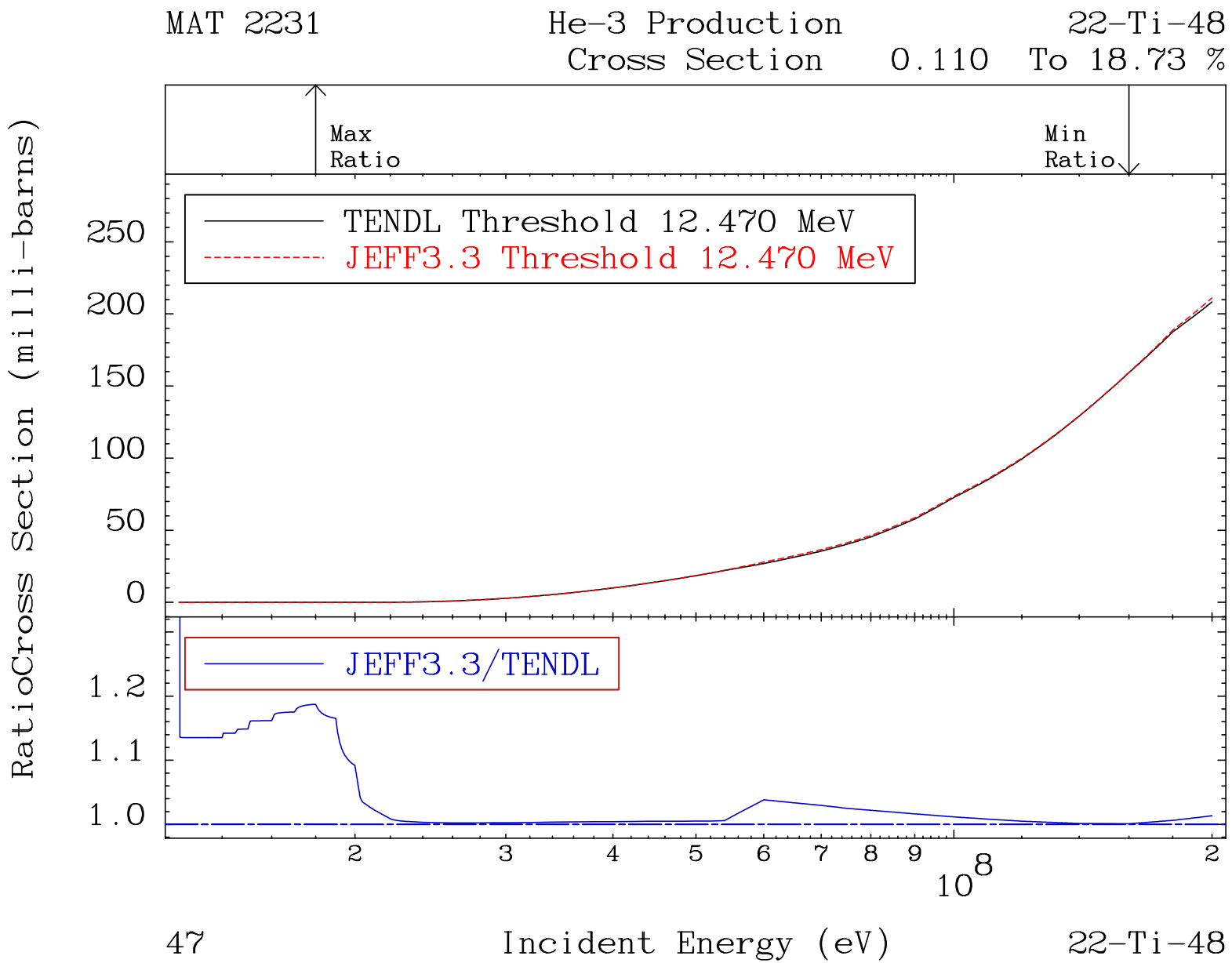

MAT 2231
(n,p) t
22-Ti-48
Cross Section
-18.87 To 57.02 %
Max
Ratio
TENDL Threshold 22.308 MeV
JEFF3.3 Threshold 22.308 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
20
15
10
5
0
1.6
1.2
0.8
20
40
60
80
100
120
140
160
180
200
42
Incident Energy (MeV)
22-Ti-48

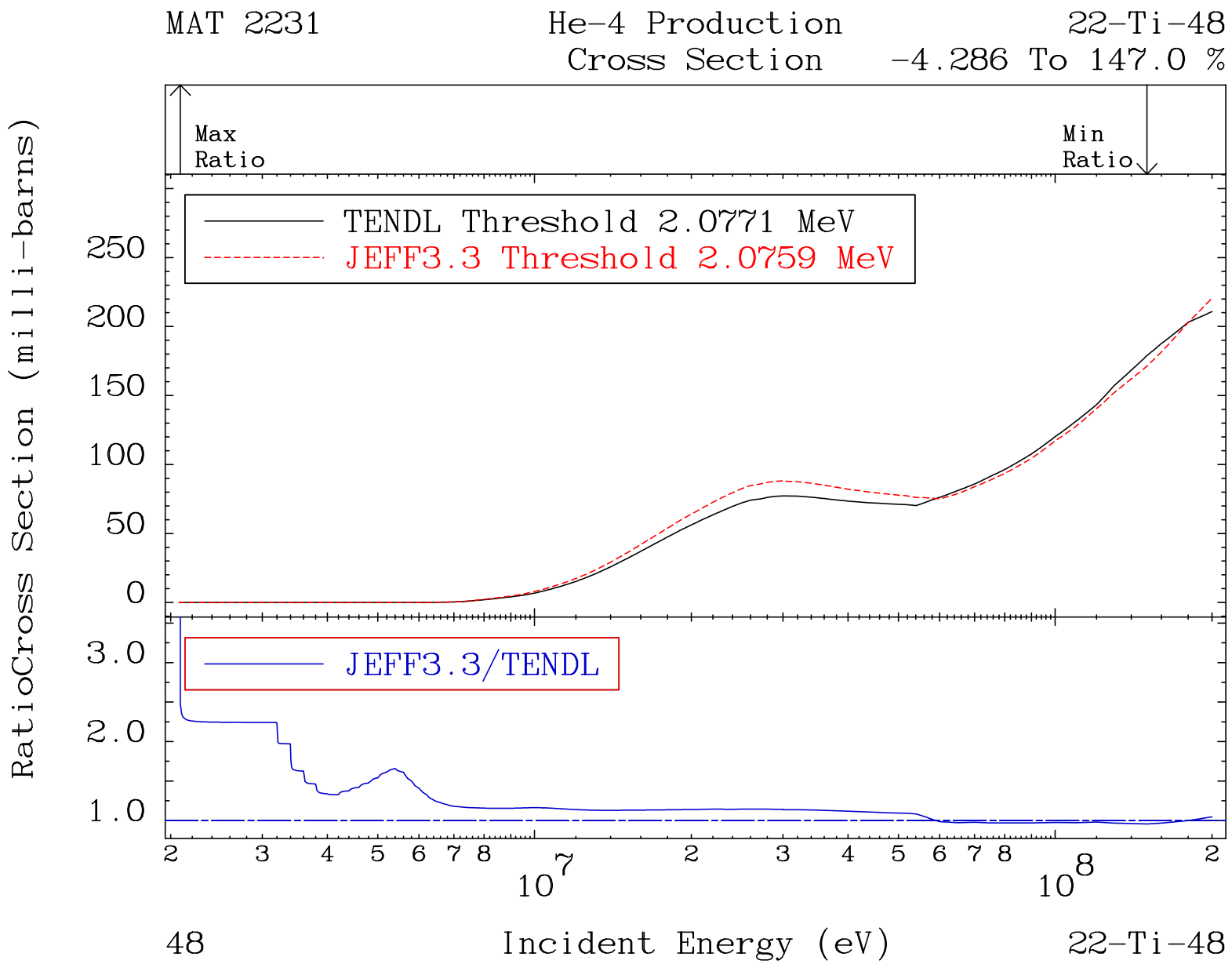

MAT 2231
(n,d) α
22-Ti-48
Cross Section 0.000 To 186.2 %
Max Ratio
Min Ratio
TENDL Threshold 19.815 MeV
JEFF3.3 Threshold 19.815 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
15
10
5
0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
2
10^8
43
Incident Energy (eV)
22-Ti-48

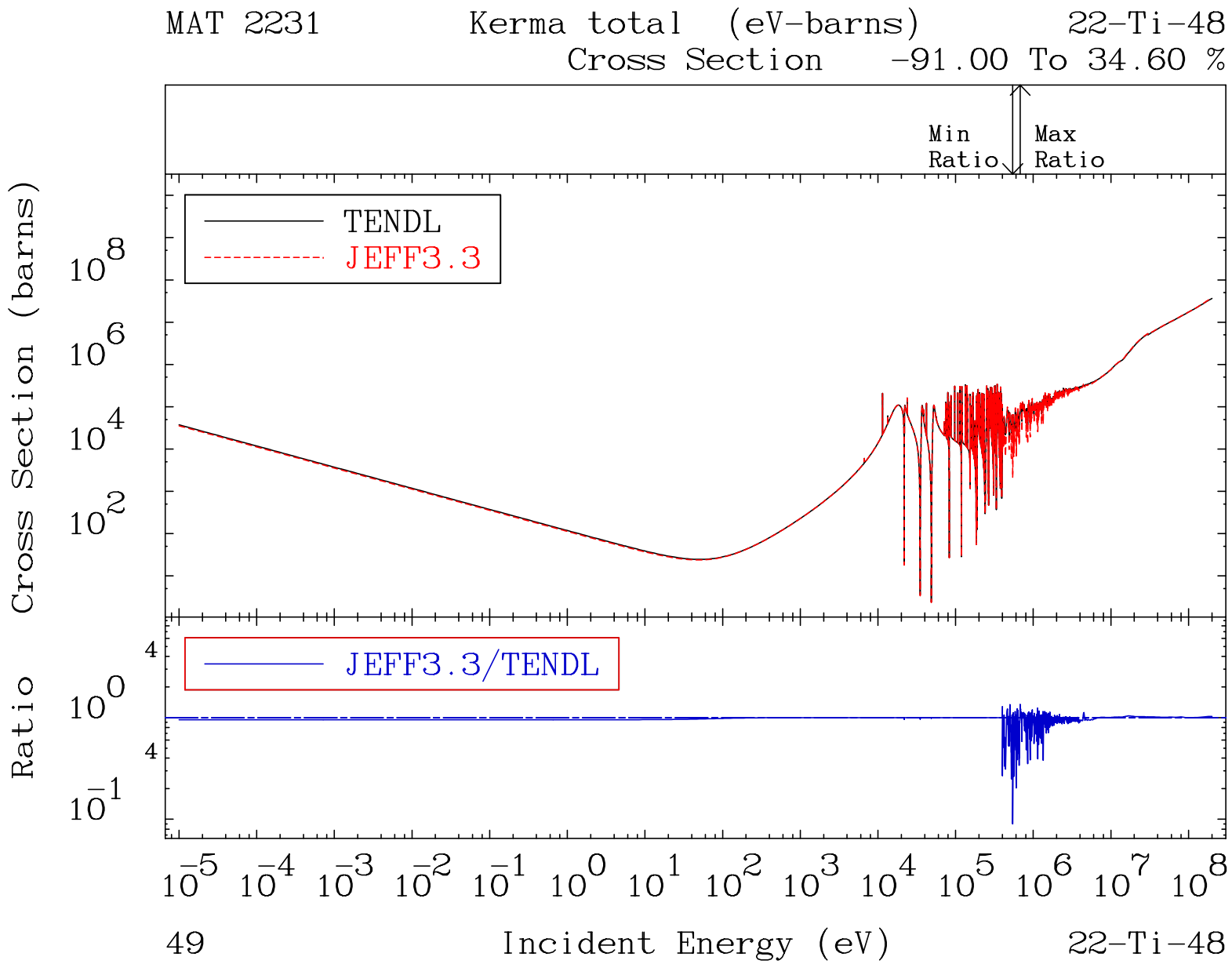

MAT 2231
Hydrogen Production
22-Ti-48
Cross Section -100.0 To 14.90 %
Min Ratio
Max Ratio
TENDL Threshold 3.2740 MeV
JEFF3.3 Threshold 3.2734 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
10^0
10^-3
10^-6
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
44
Incident Energy (eV)
22-Ti-48

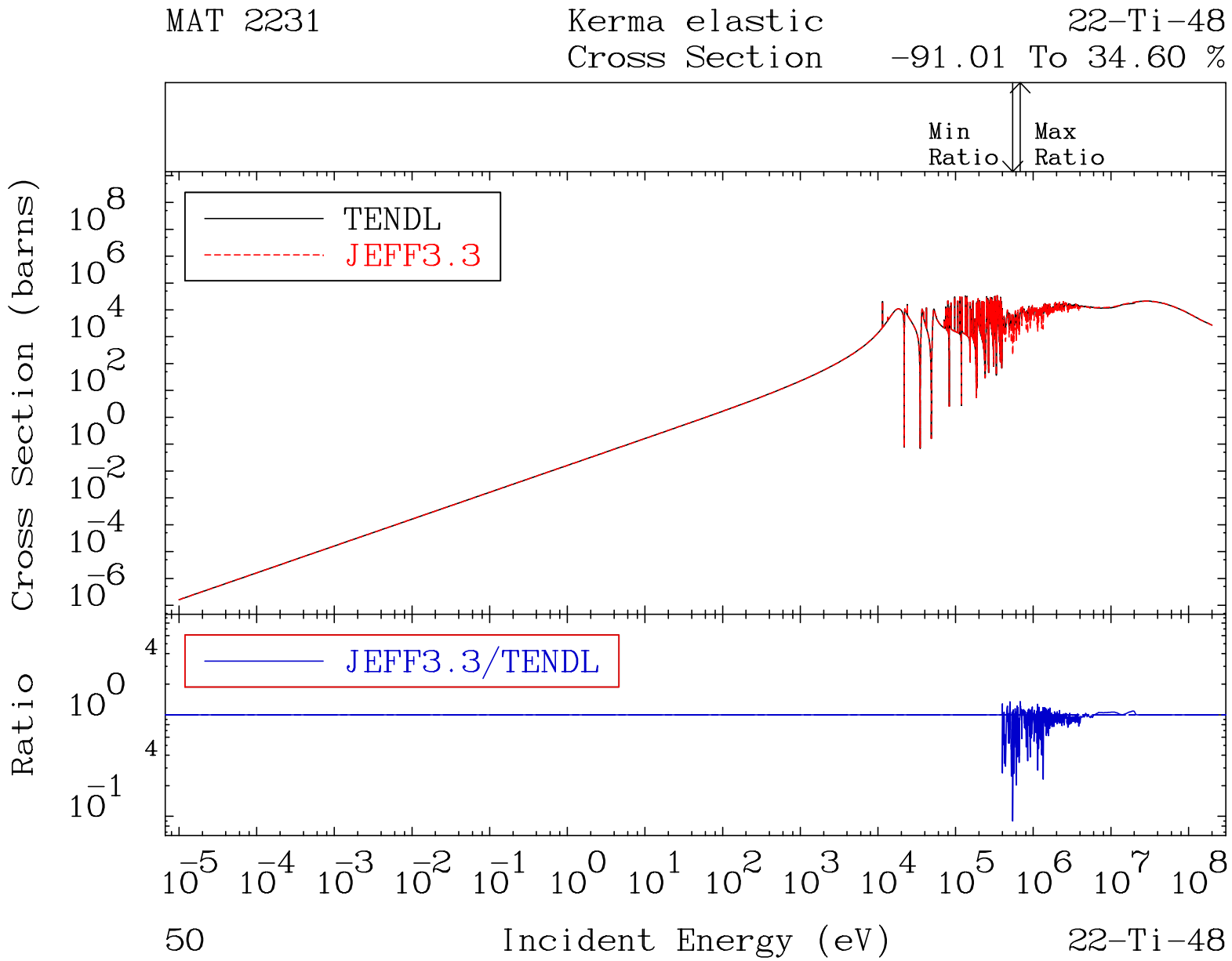

MAT 2231
Deuterium Production
22-Ti-48
Cross Section
-2.718 To 29.00 %
Min Ratio
Max Ratio
TENDL Threshold 9.4145 MeV
JEFF3.3 Threshold 9.4145 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
1.4
1.2
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
45
Incident Energy (eV)
22-Ti-48

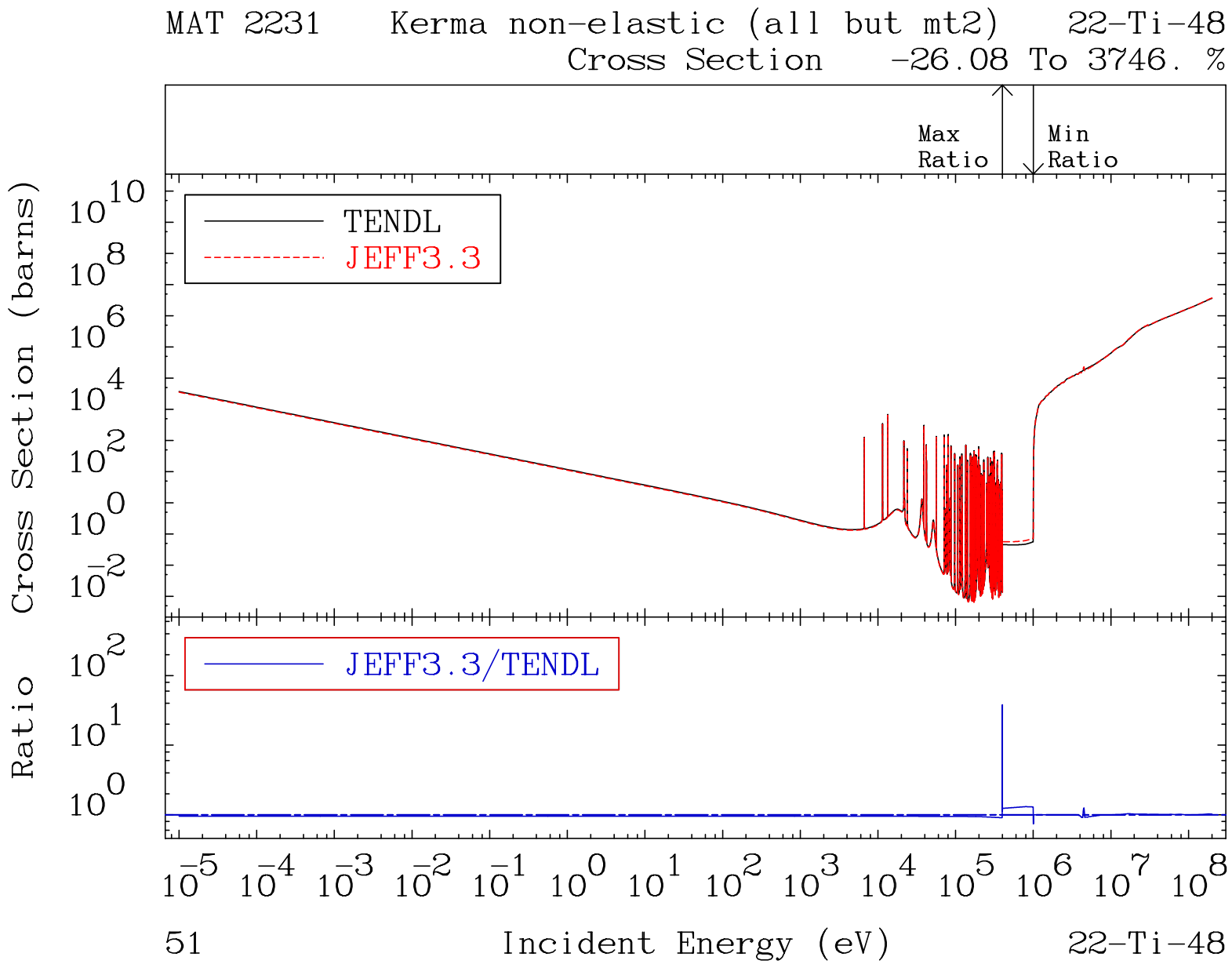

MAT 2231
Tritium Production
Cross Section
22-Ti-48
-3.736 To 37.95 %
Min Ratio
Max Ratio
TENDL Threshold 13.896 MeV
JEFF3.3 Threshold 13.896 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.6
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
22-Ti-48

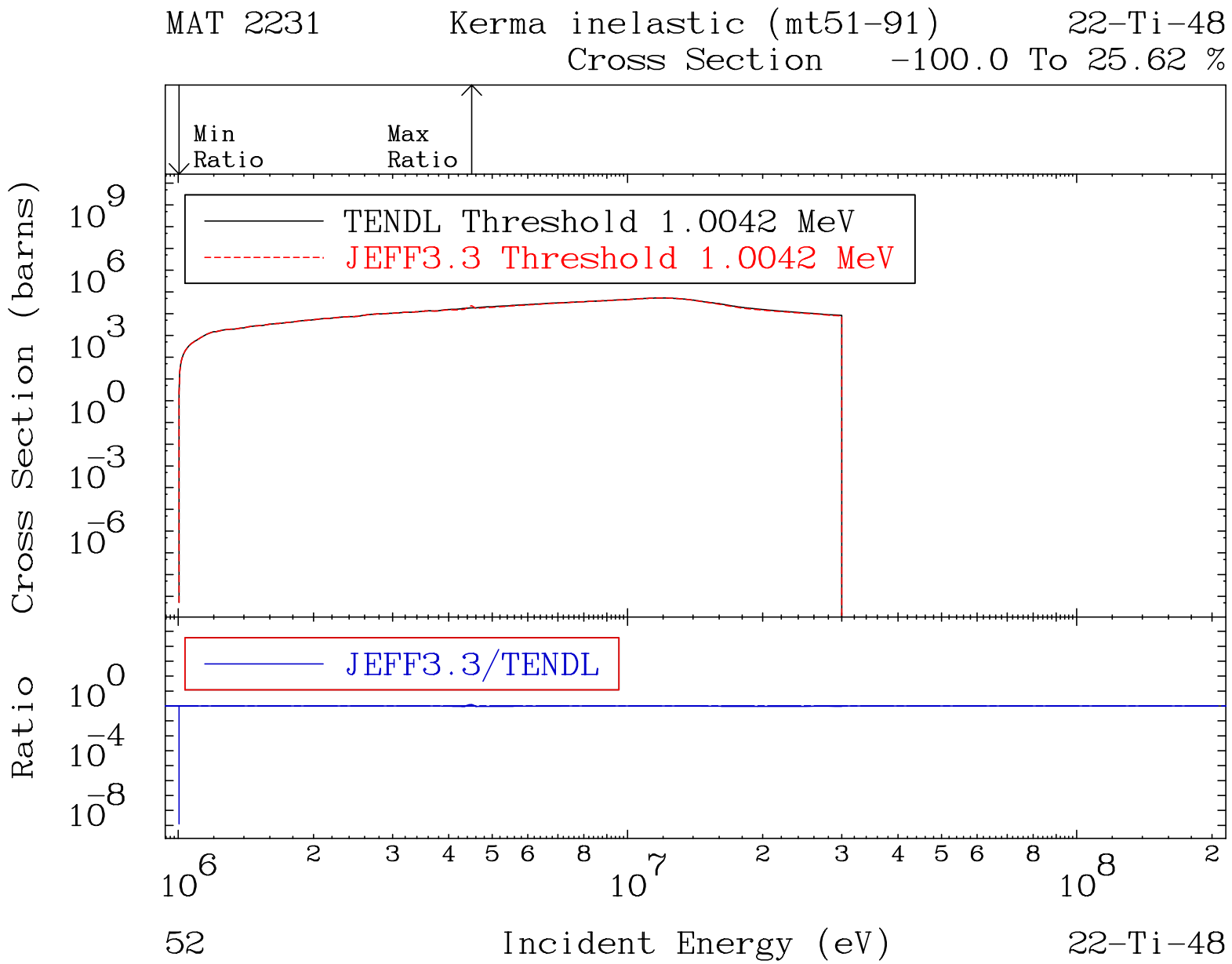

MAT 2231
He-3 Production
22-Ti-48
Cross Section 0.110 To 18.73 %
Max Ratio
Min Ratio
TENDL Threshold 12.470 MeV
JEFF3.3 Threshold 12.470 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
22-Ti-48

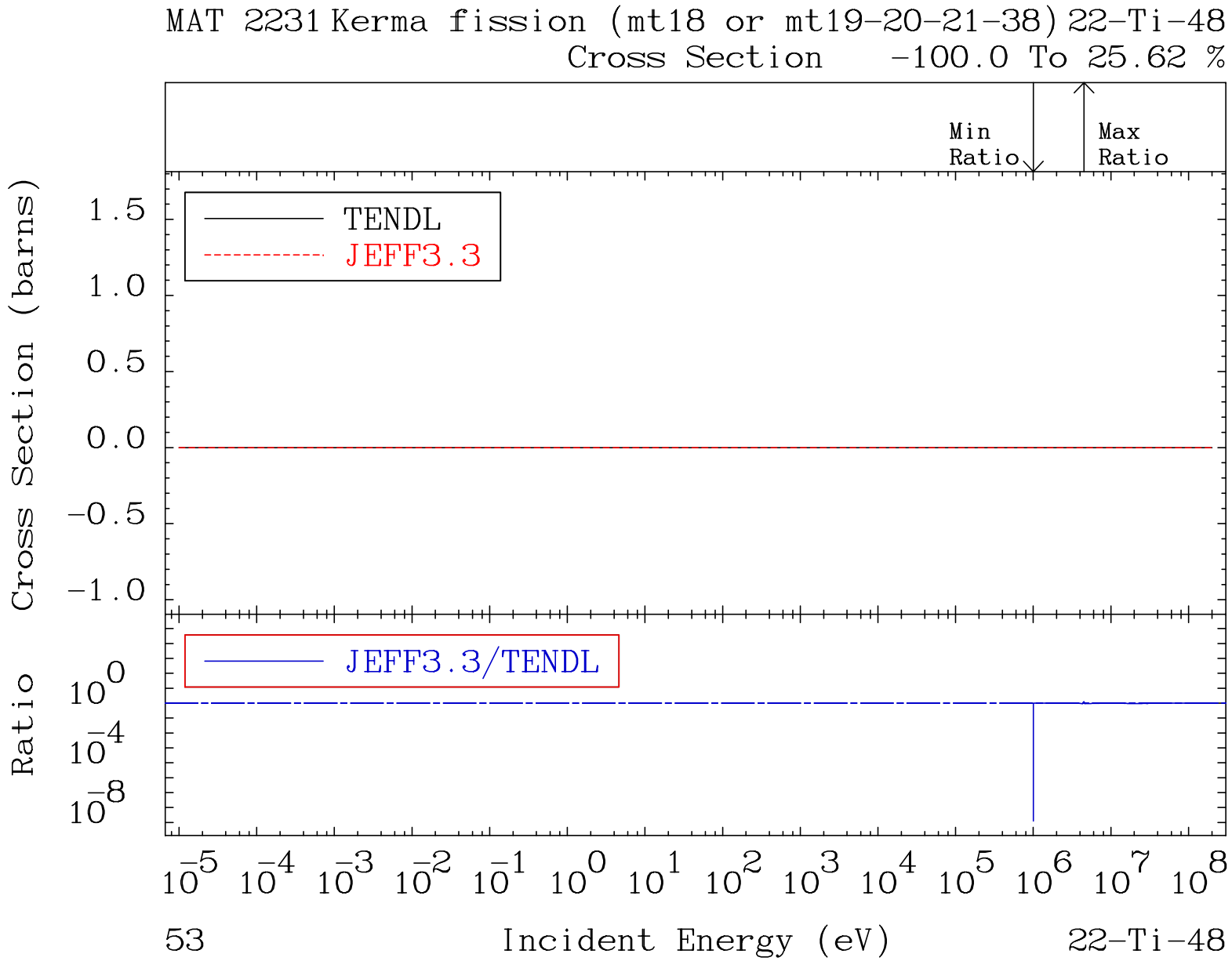

MAT 2231
He-4 Production
Cross Section
22-Ti-48
-4.286 To 147.0 %
Max Ratio
Min Ratio
TENDL Threshold 2.0771 MeV
JEFF3.3 Threshold 2.0759 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
3.0
2.0
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
48
Incident Energy (eV)
22-Ti-48

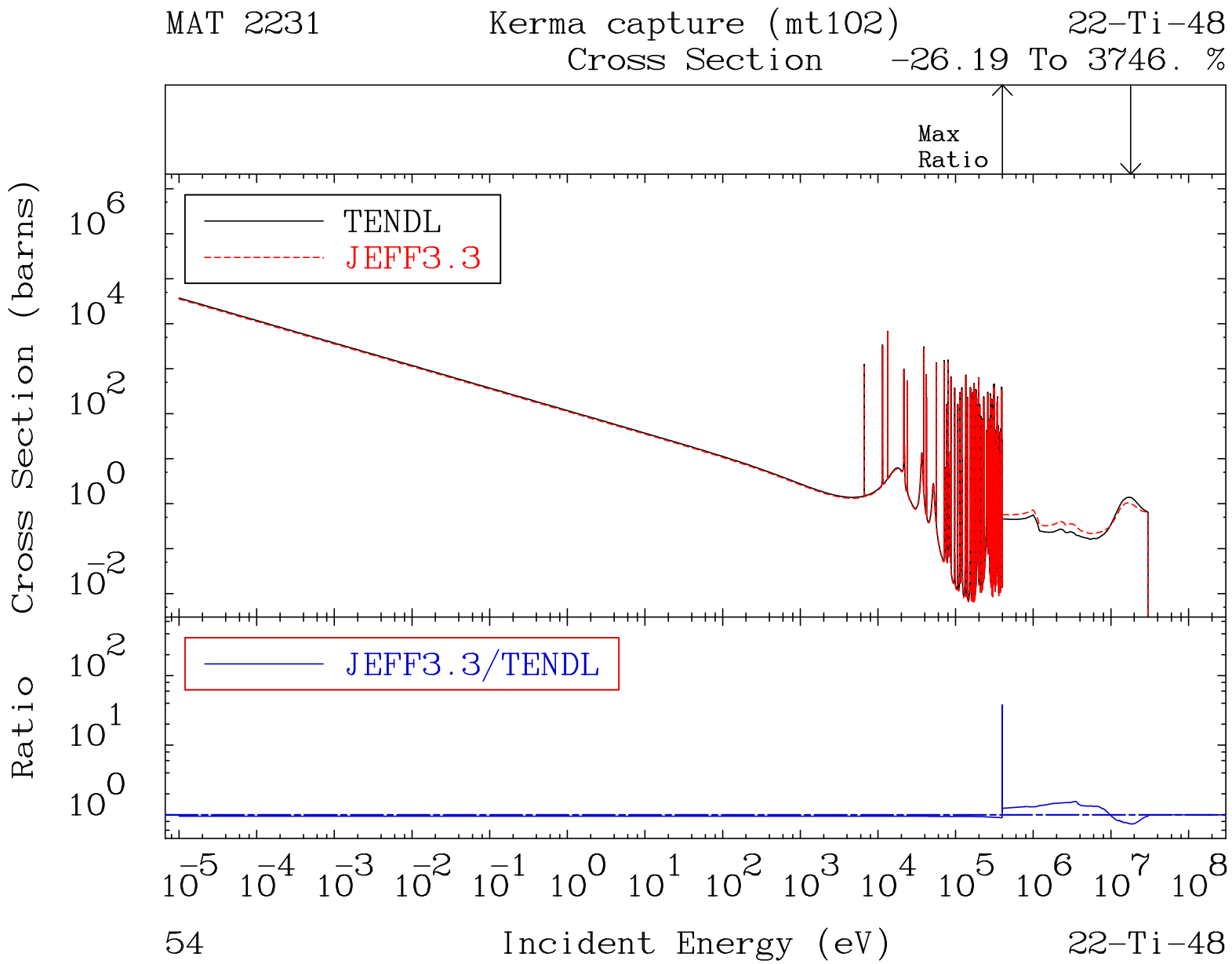

MAT 2231
Kerma total (eV-barns)
22-Ti-48
Cross Section -91.00 To 34.60 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
49
22-Ti-48

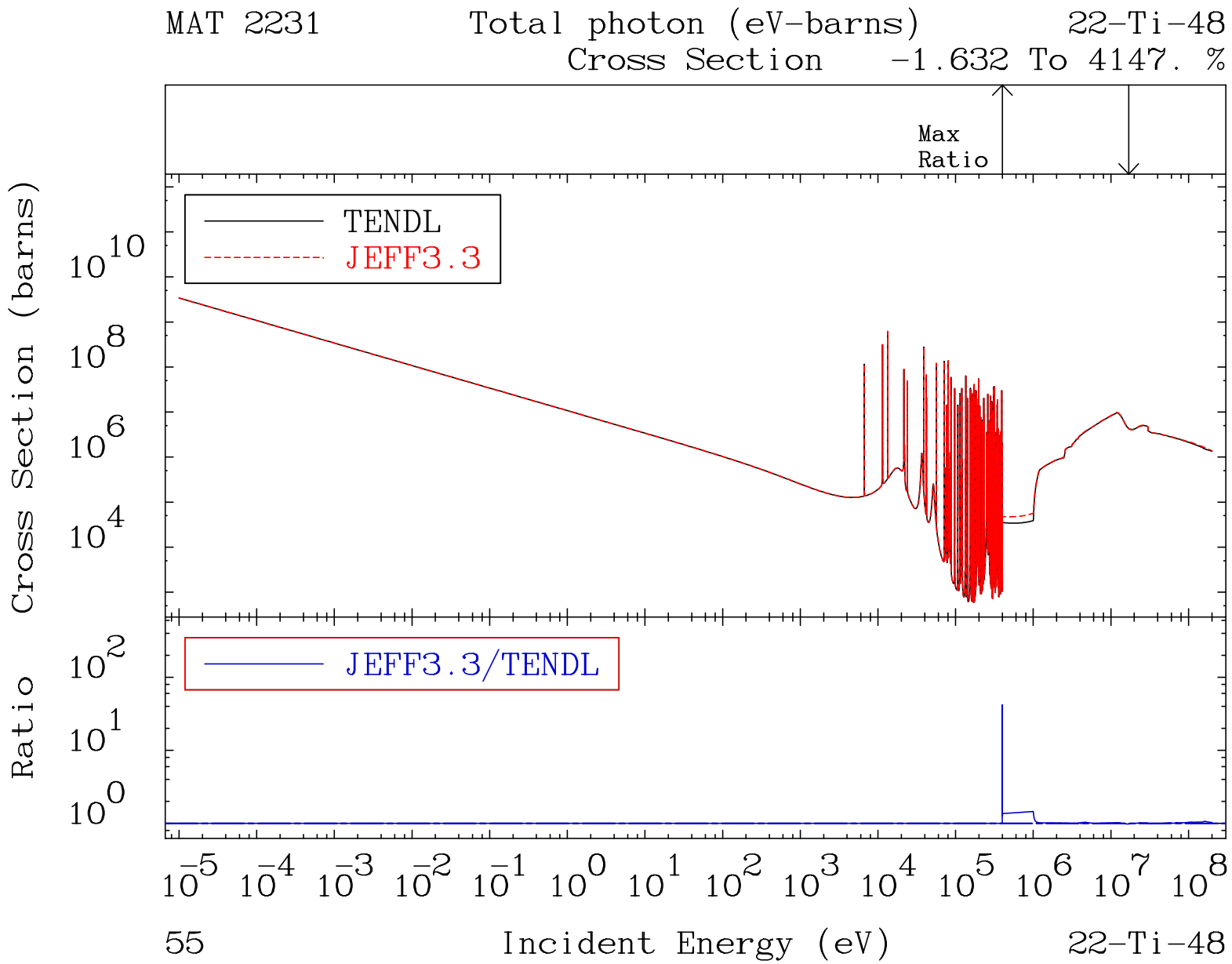

MAT 2231
Kerma elastic
Cross Section
22-Ti-48
-91.01 To 34.60 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
50
22-Ti-48

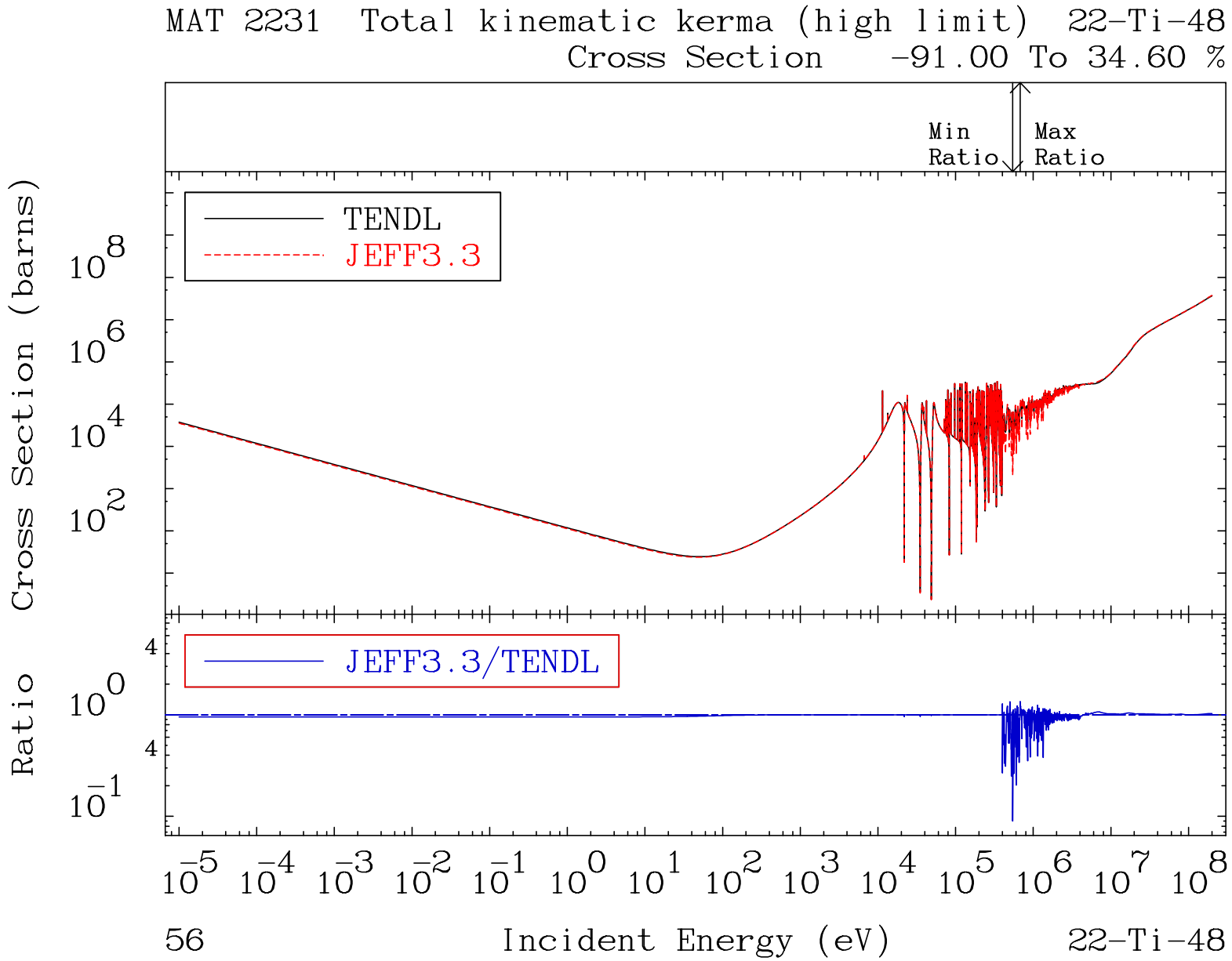

MAT 2231 Kerma non-elastic (all but mt2) 22-Ti-48
Cross Section -26.08 To 3746. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
22-Ti-48

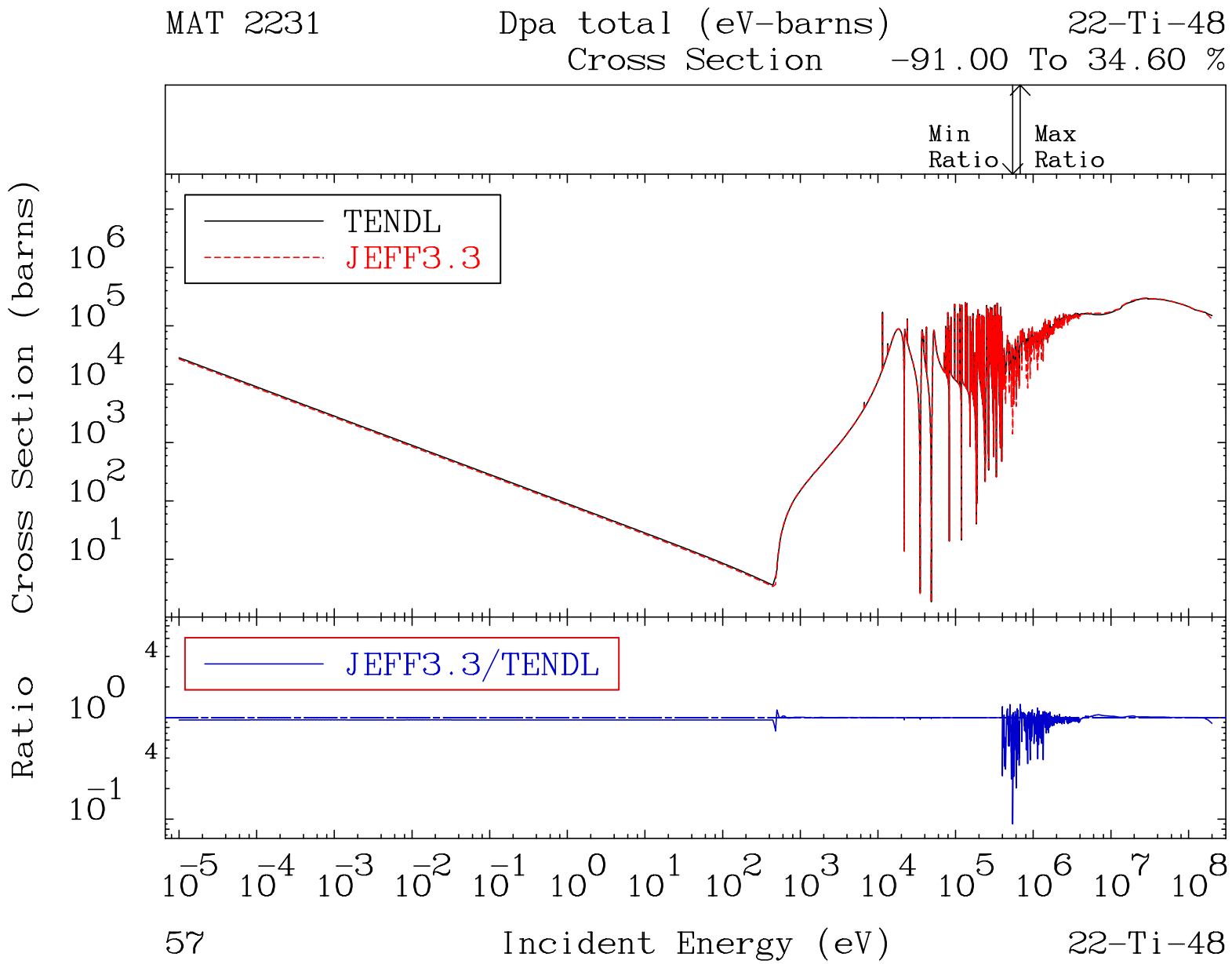

MAT 2231
Kerma inelastic (mt51-91)
22-Ti-48
Cross Section
-100.0 To 25.62 %
Min Ratio
Max Ratio
TENDL Threshold 1.0042 MeV
JEFF3.3 Threshold 1.0042 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
22-Ti-48

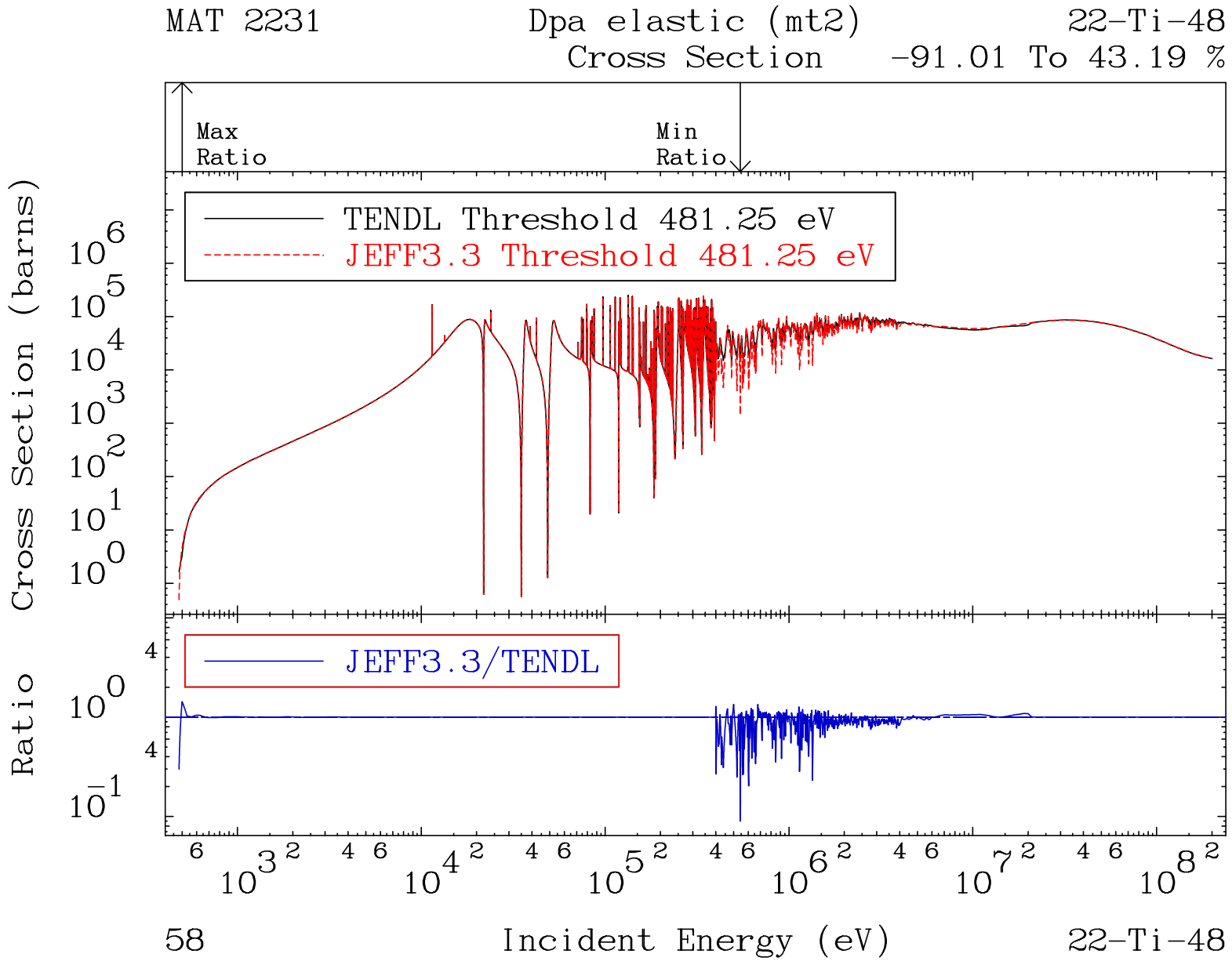

MAT 2231 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-48
Cross Section -100.0 To 25.62 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{0}
10^{-4}
10^{-8}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
53
Incident Energy (eV)
22-Ti-48

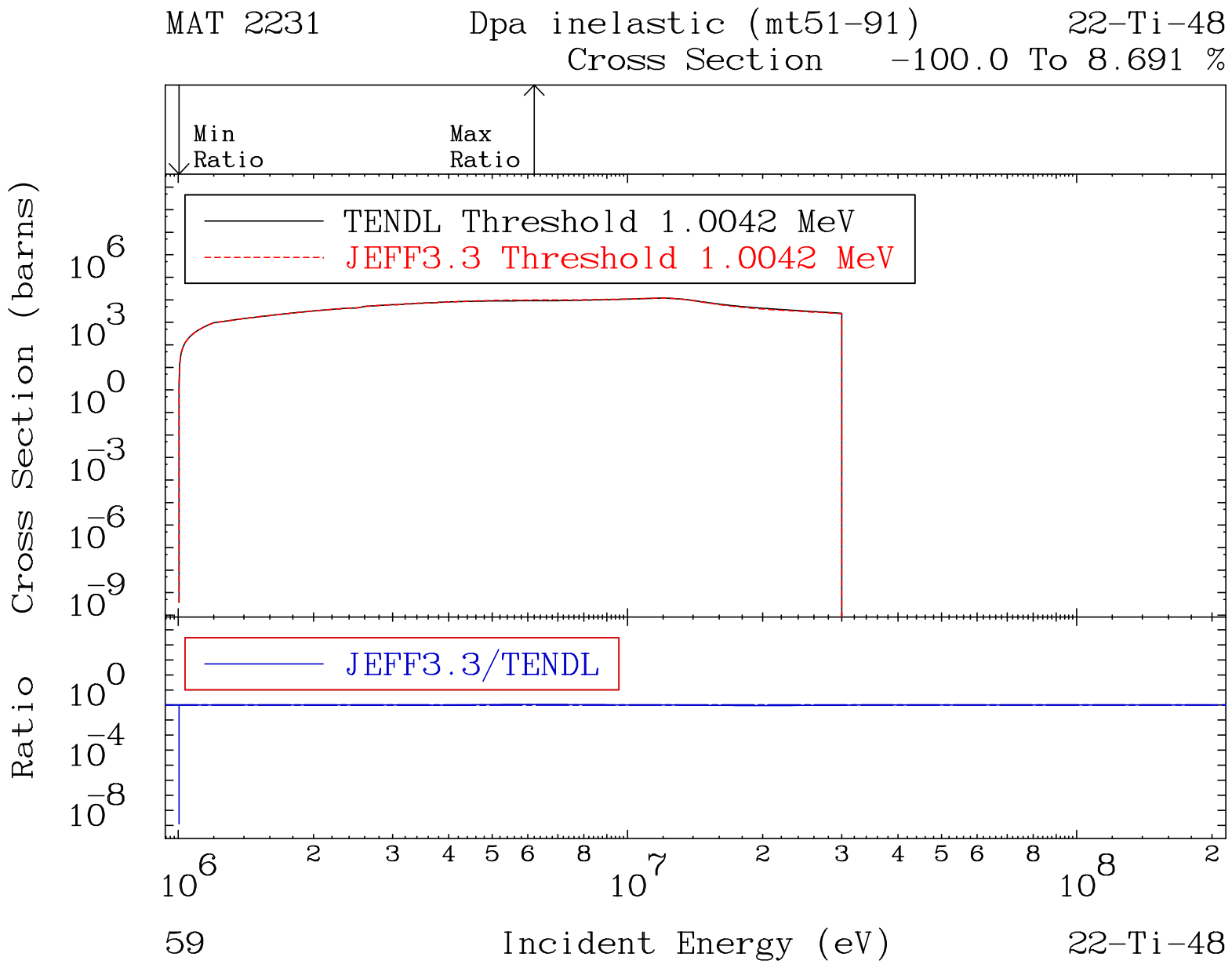

MAT 2231
Kerma capture (mt102)
22-Ti-48
Cross Section -26.19 To 3746. %
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
22-Ti-48

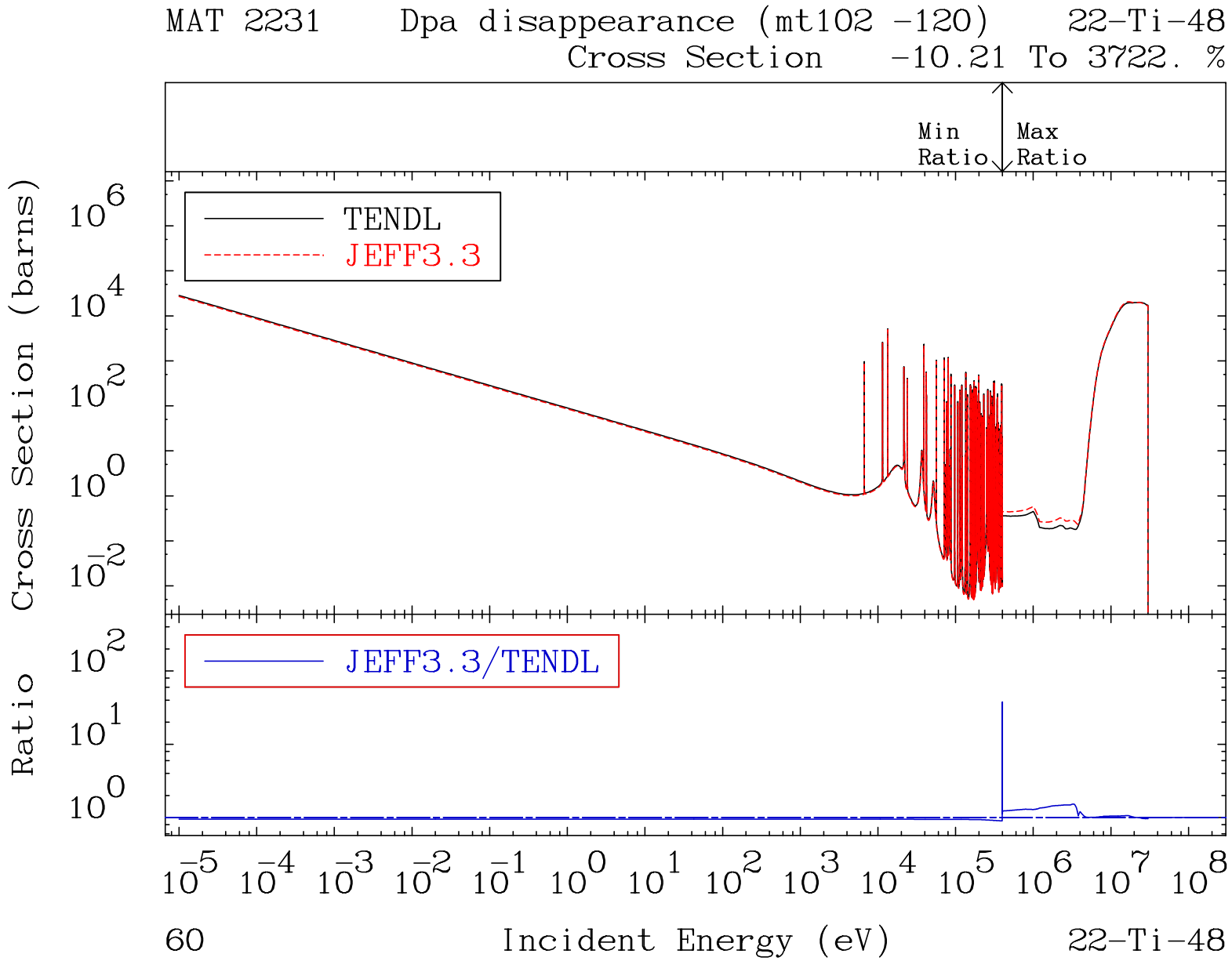

MAT 2231
Total photon (eV-barns)
22-Ti-48
Cross Section -1.632 To 4147. %
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
10^10
10^8
10^6
10^4
10^2
10^1
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
55
Incident Energy (eV)
22-Ti-48

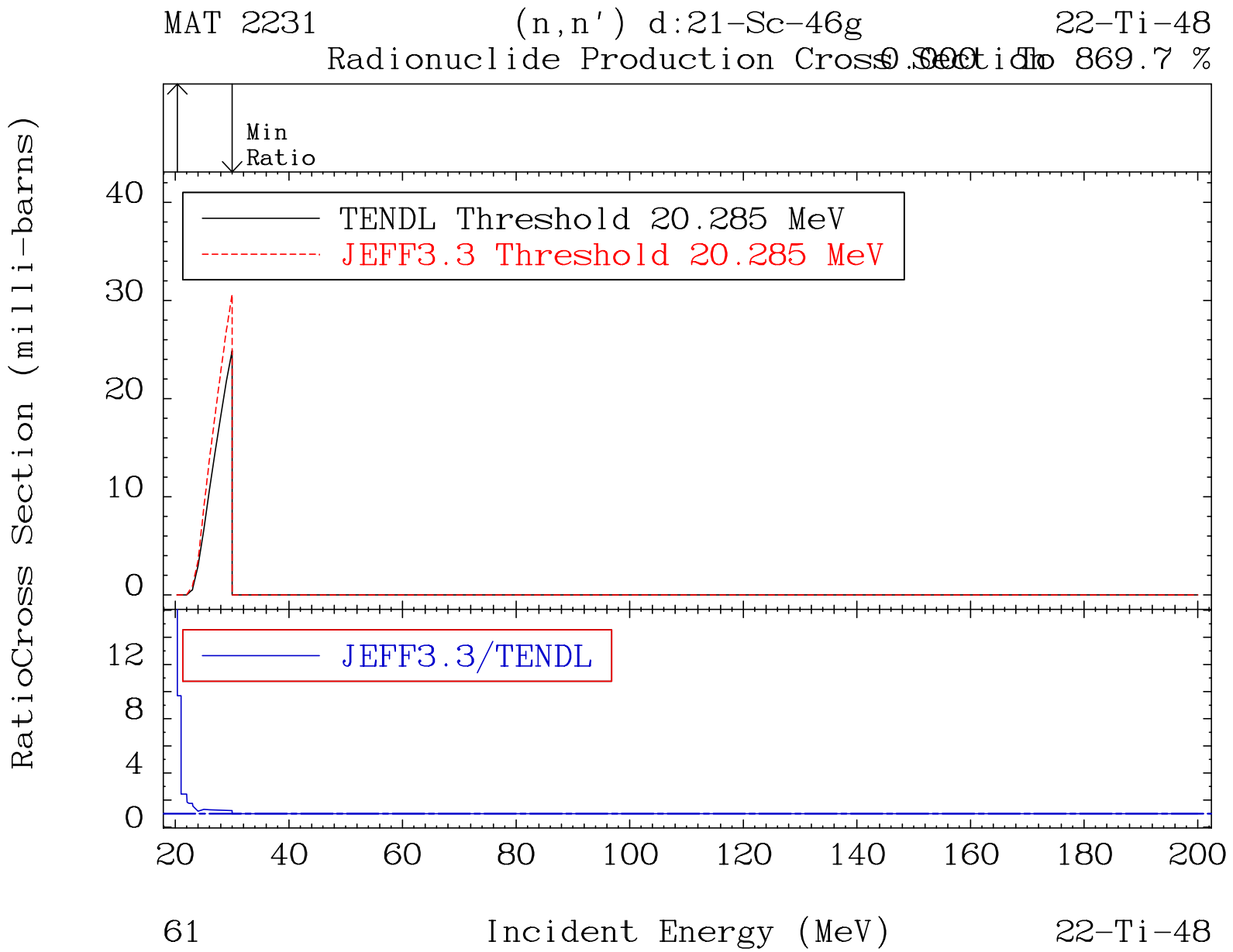

MAT 2231 Total kinematic kerma (high limit) 22-Ti-48
Cross Section -91.00 To 34.60 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
22-Ti-48

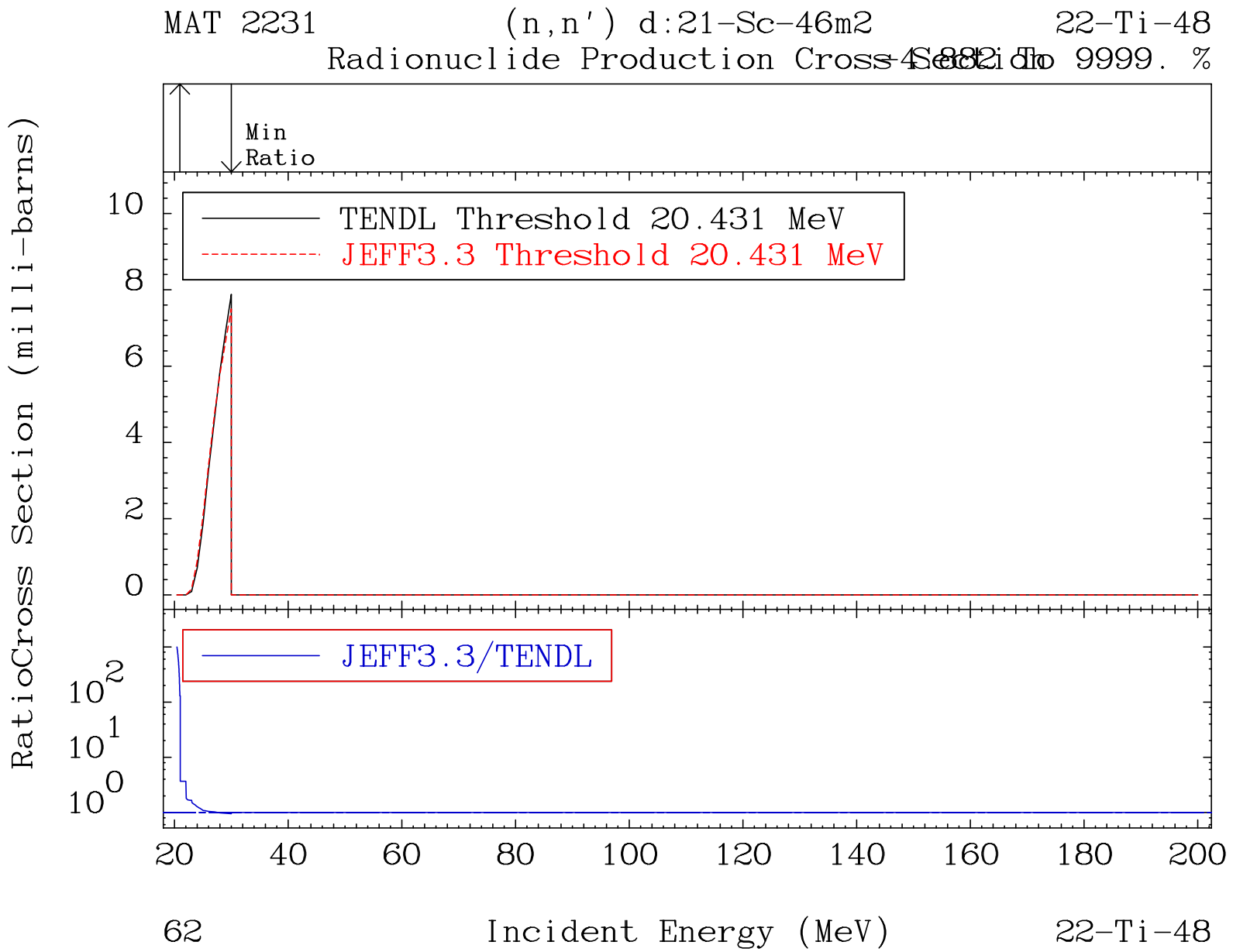

MAT 2231
Dpa total (eV-barns)
22-Ti-48
Cross Section
-91.00 To 34.60 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
57
22-Ti-48

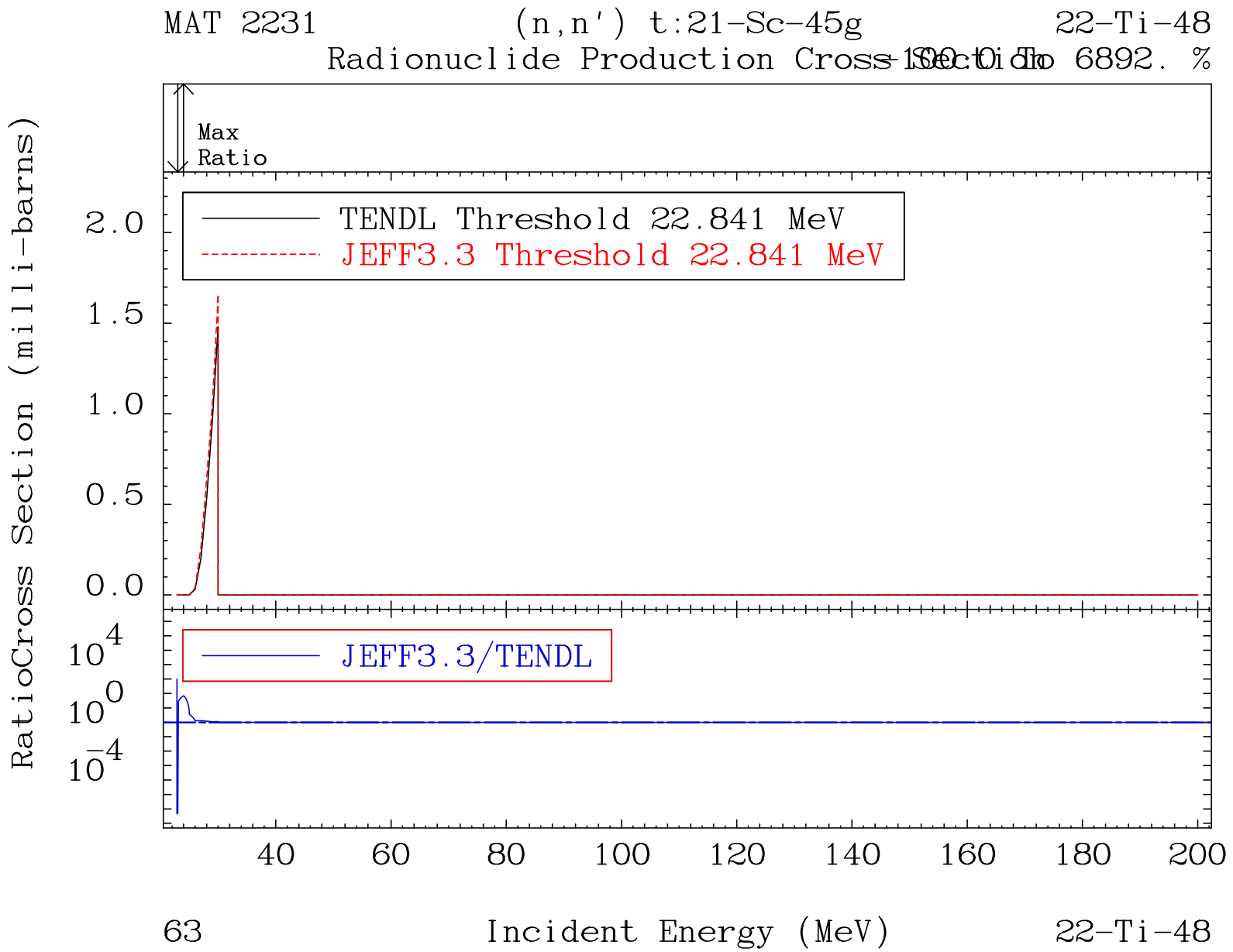

MAT 2231
Dpa elastic (mt2)
Cross Section
22-Ti-48
-91.01 To 43.19 %
Max Ratio
Min Ratio
TENDL Threshold 481.25 eV
JEFF3.3 Threshold 481.25 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
22-Ti-48

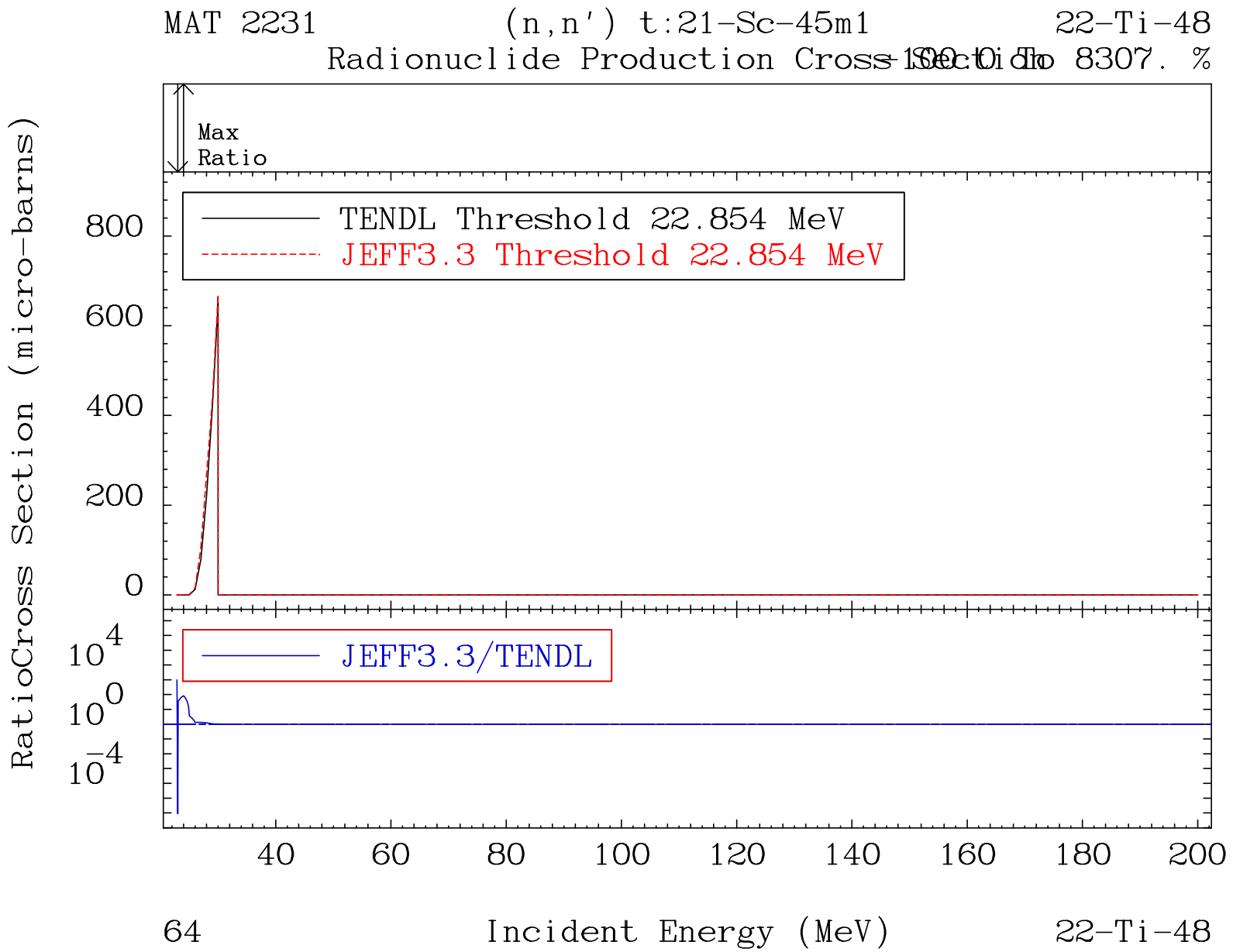

MAT 2231
Dpa inelastic (mt51-91)
22-Ti-48
Cross Section -100.0 To 8.691 %
Min Ratio
Max Ratio
TENDL Threshold 1.0042 MeV
JEFF3.3 Threshold 1.0042 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
22-Ti-48

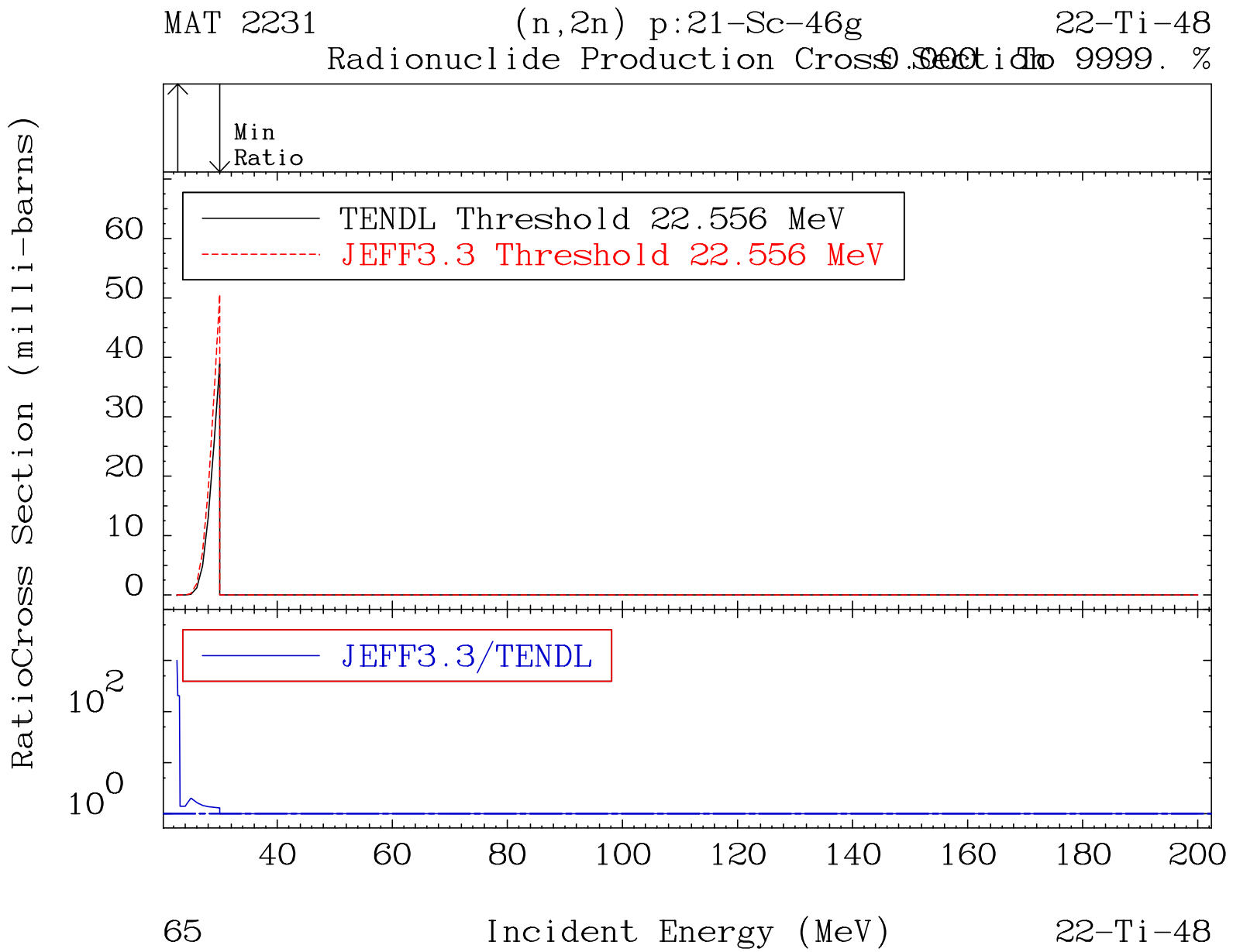

MAT 2231 Dpa disappearance (mt102 -120) 22-Ti-48
Cross Section -10.21 To 3722. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
22-Ti-48

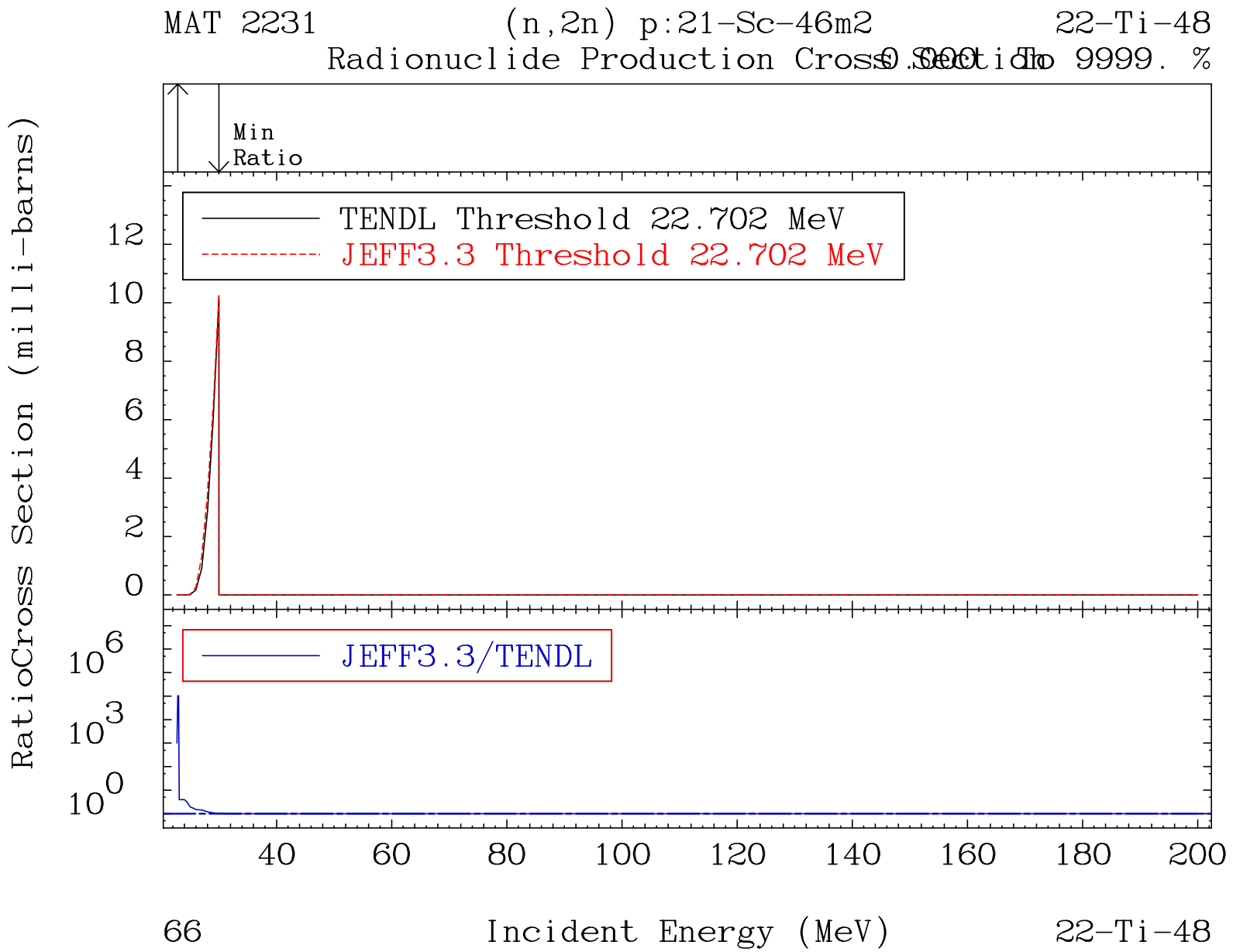

MAT 2231
(n,n') d:21-Sc-46g
22-Ti-48
Radionuclide Production Cross Section
0.000 To 869.7 %
Min
Ratio
TENDL Threshold 20.285 MeV
JEFF3.3 Threshold 20.285 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (MeV)
61
22-Ti-48

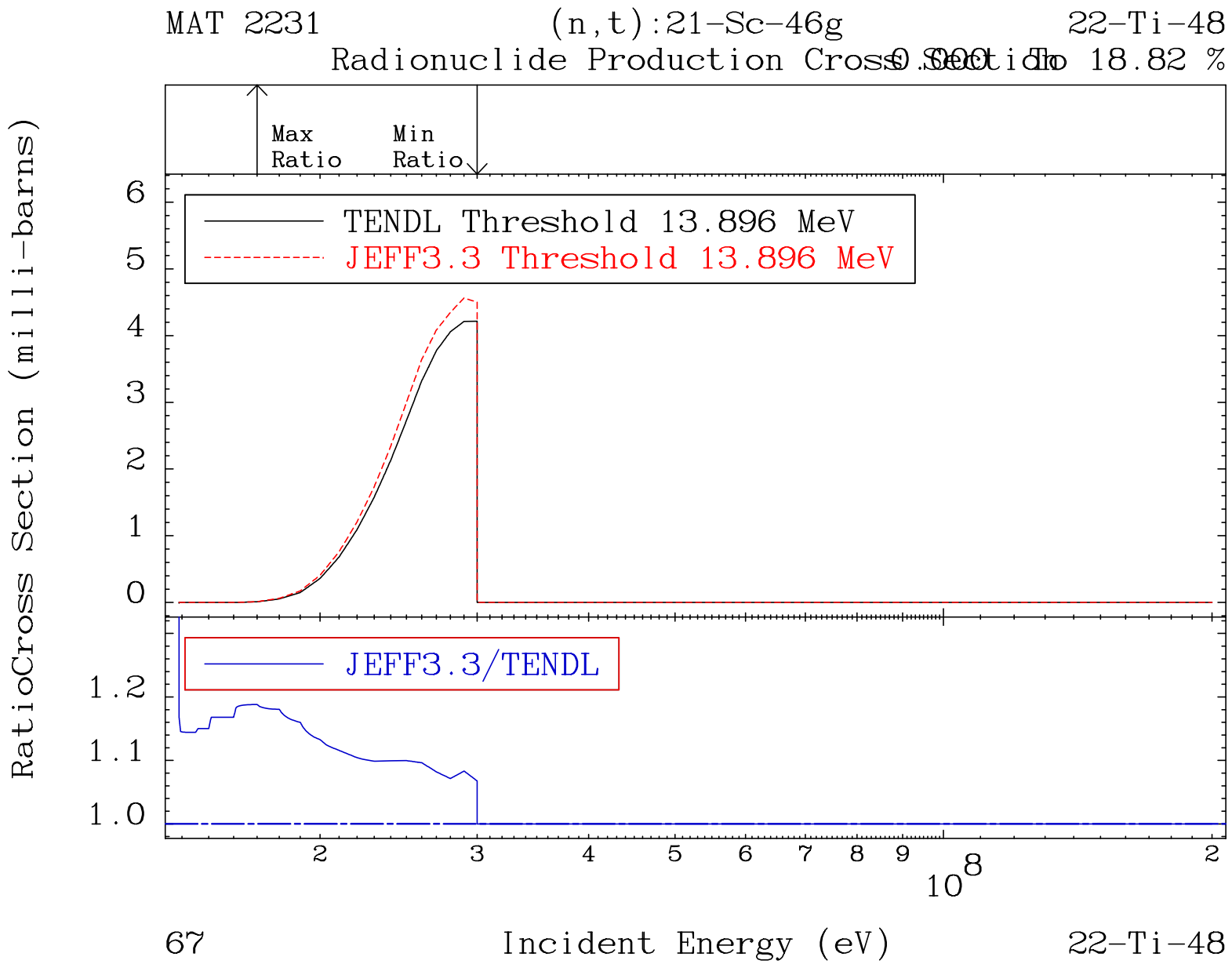

MAT 2231
(n,n') d:21-Sc-46m2
22-Ti-48
Radionuclide Production Cross-Section
Min
Ratio
TENDL Threshold 20.431 MeV
JEFF3.3 Threshold 20.431 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (MeV)
62
22-Ti-48

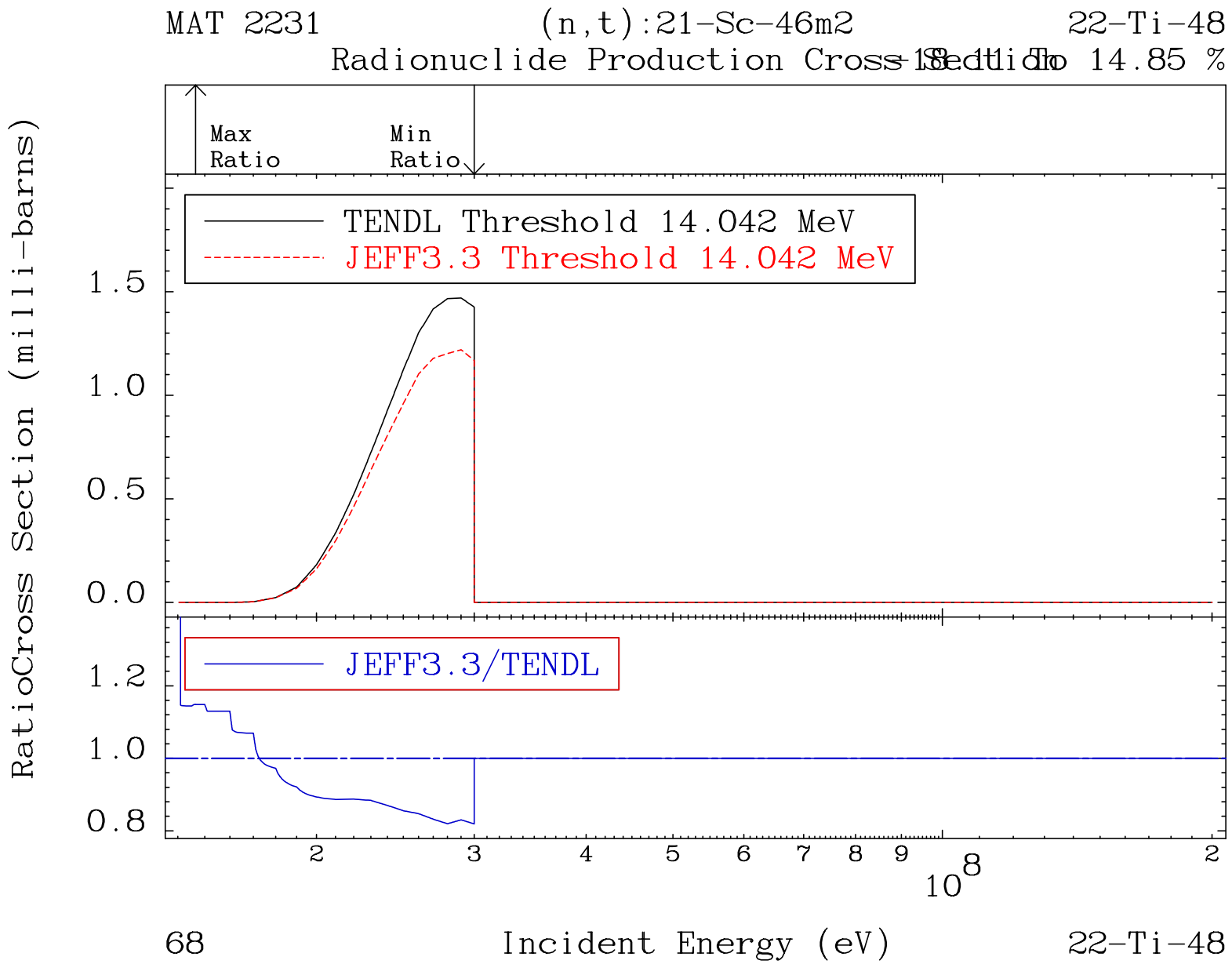

MAT 2231
(n,n') t:21-Sc-45g
22-Ti-48
Radionuclide Production Cross Section To 6892. %
Max
Ratio
TENDL Threshold 22.841 MeV
JEFF3.3 Threshold 22.841 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
10^4
10^0
10^-4
40
60
80
100
120
140
160
180
200
63
Incident Energy (MeV)
22-Ti-48


MAT 2231
(n,n') t:21-Sc-45m1
22-Ti-48
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 22.854 MeV
JEFF3.3 Threshold 22.854 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
10^4
10^0
10^-4
40
60
80
100
120
140
160
180
200
64
Incident Energy (MeV)
22-Ti-48


MAT 2231
(n,2n) p:21-Sc-46g
22-Ti-48
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 22.556 MeV
JEFF3.3 Threshold 22.556 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
10^2
10^0
40
60
80
100
120
140
160
180
200
65
Incident Energy (MeV)
22-Ti-48


MAT 2231
(n,2n) p:21-Sc-46m2
22-Ti-48
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 22.702 MeV
JEFF3.3 Threshold 22.702 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
10^6
10^3
10^0
40
60
80
100
120
140
160
180
200
66
Incident Energy (MeV)
22-Ti-48


MAT 2231
(n,t):21-Sc-46g
22-Ti-48
Radionuclide Production Cross Section
0.000 To 18.82 %
Max Ratio
Min Ratio
TENDL Threshold 13.896 MeV
JEFF3.3 Threshold 13.896 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
67
22-Ti-48


MAT 2231
(n,t):21-Sc-46m2
22-Ti-48
Radionuclide Production Cross Section To 14.85 %
Max Ratio
Min Ratio
TENDL Threshold 14.042 MeV
JEFF3.3 Threshold 14.042 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.5
1.0
0.5
0.0
1.2
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
68
Incident Energy (eV)
22-Ti-48