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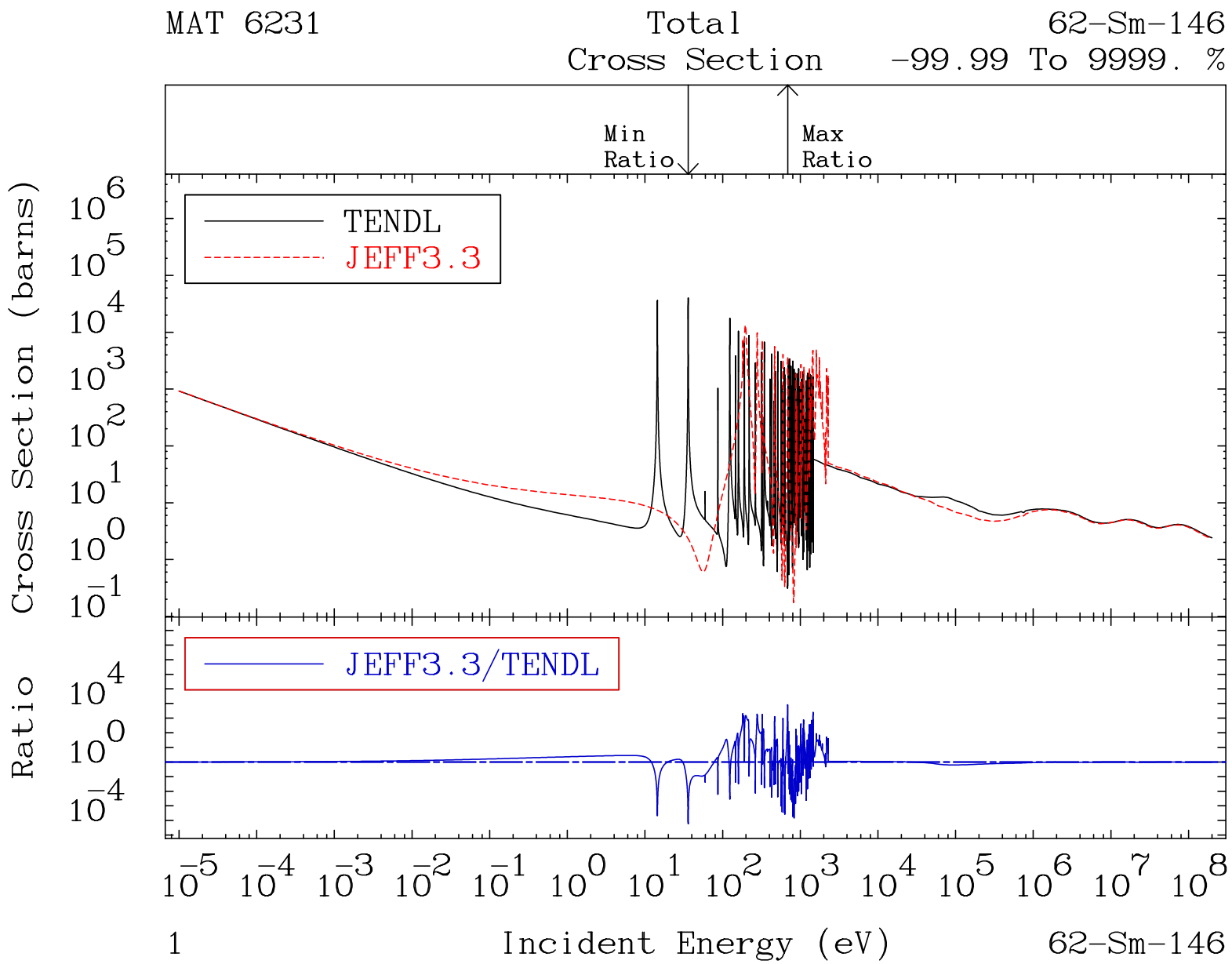
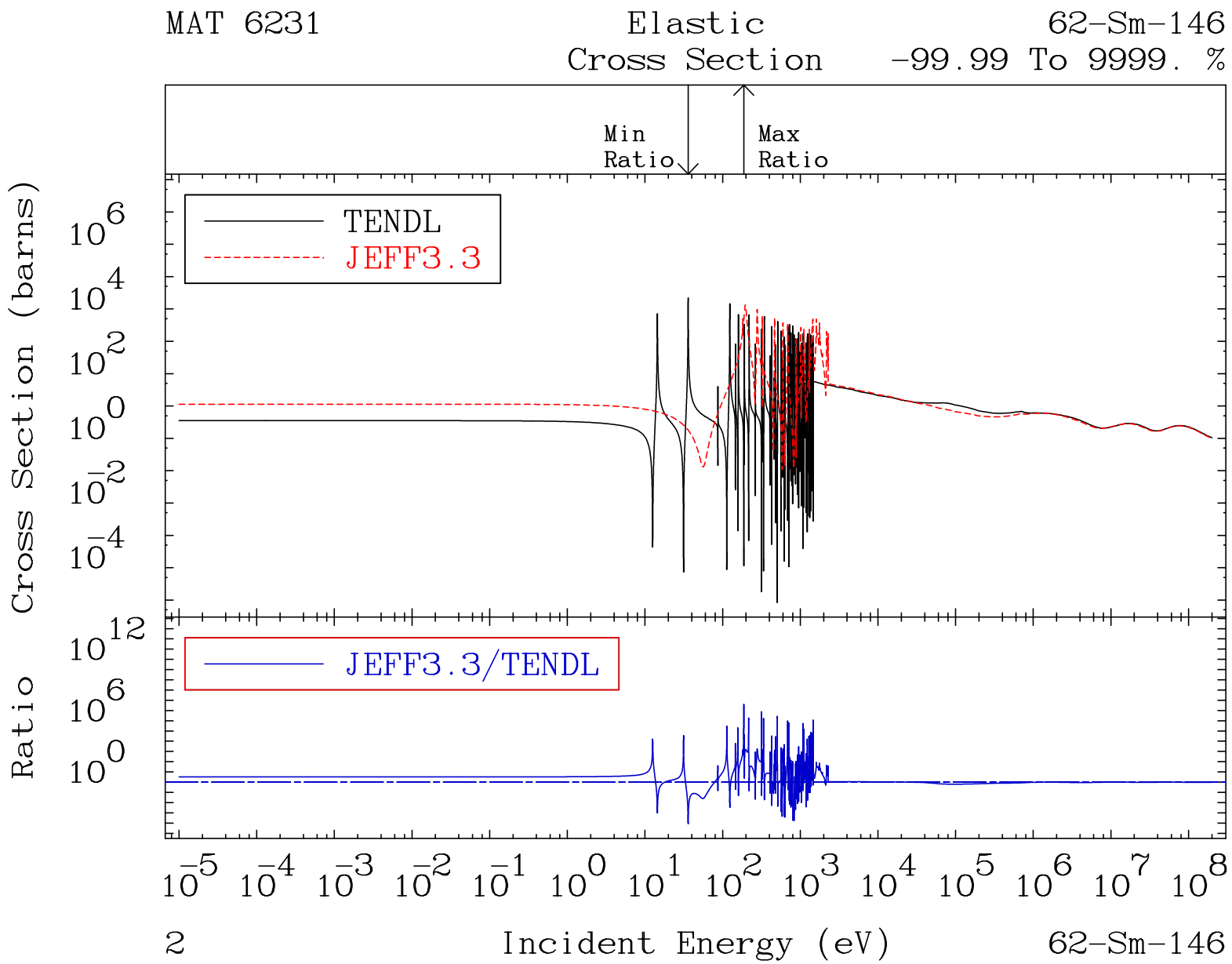
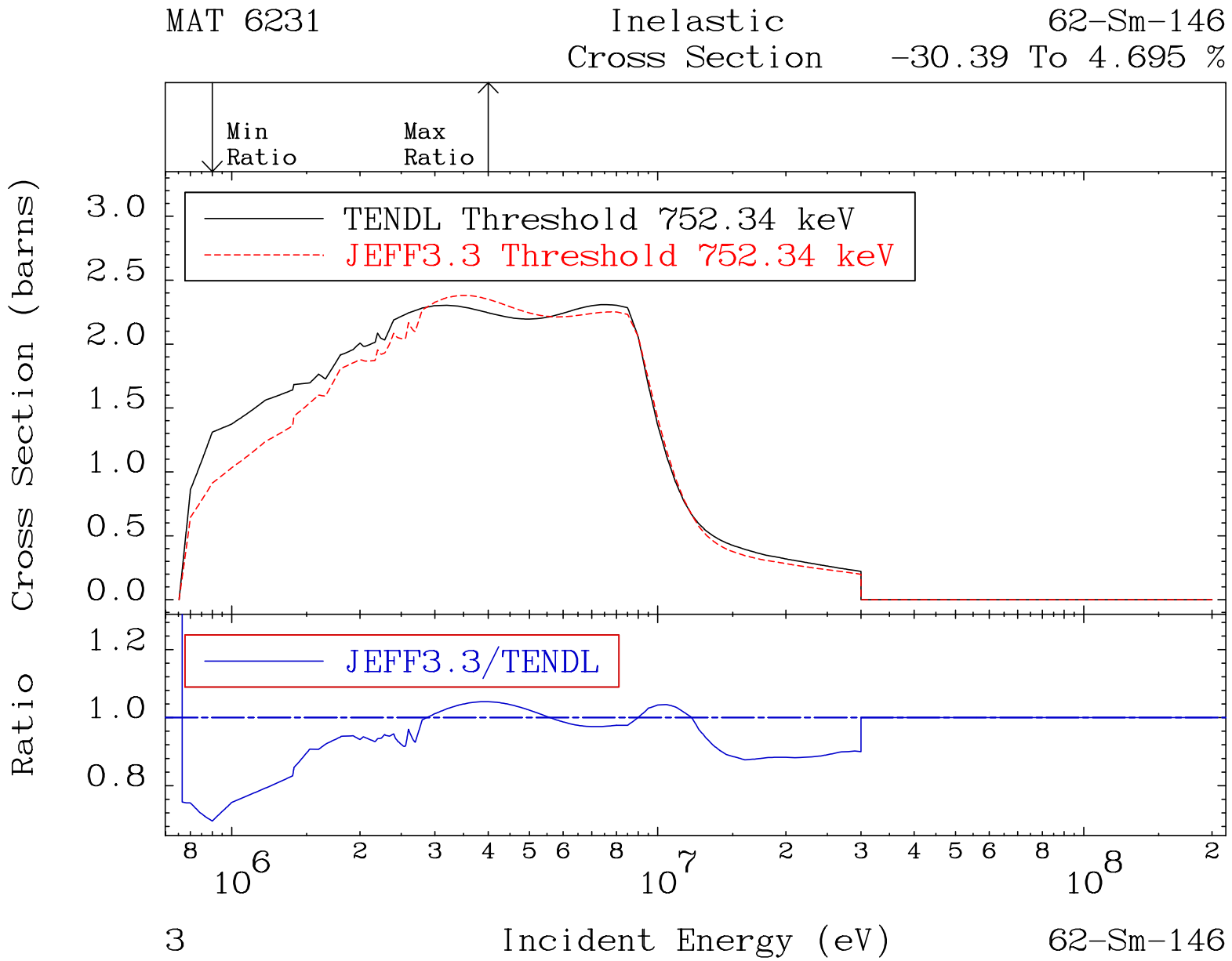
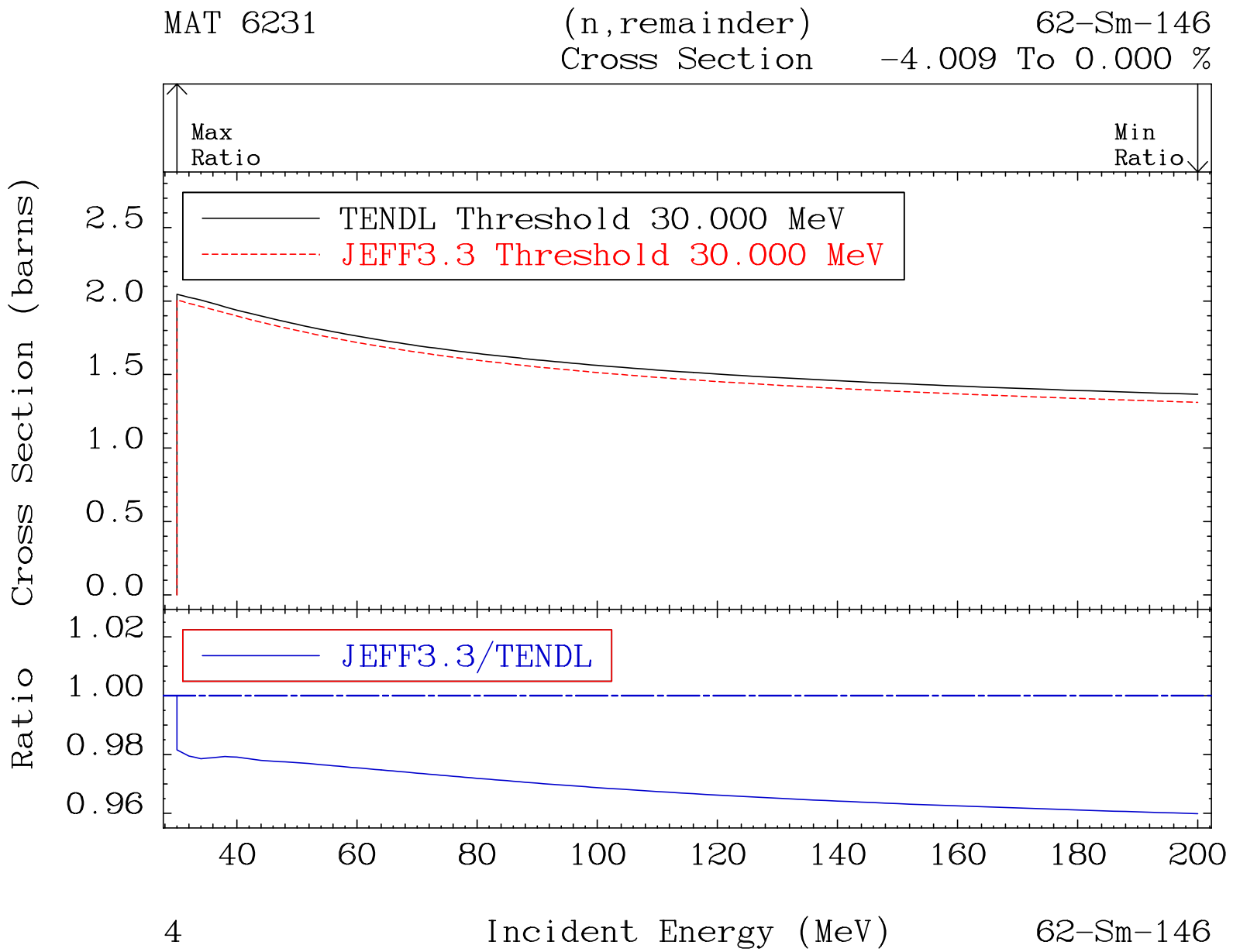
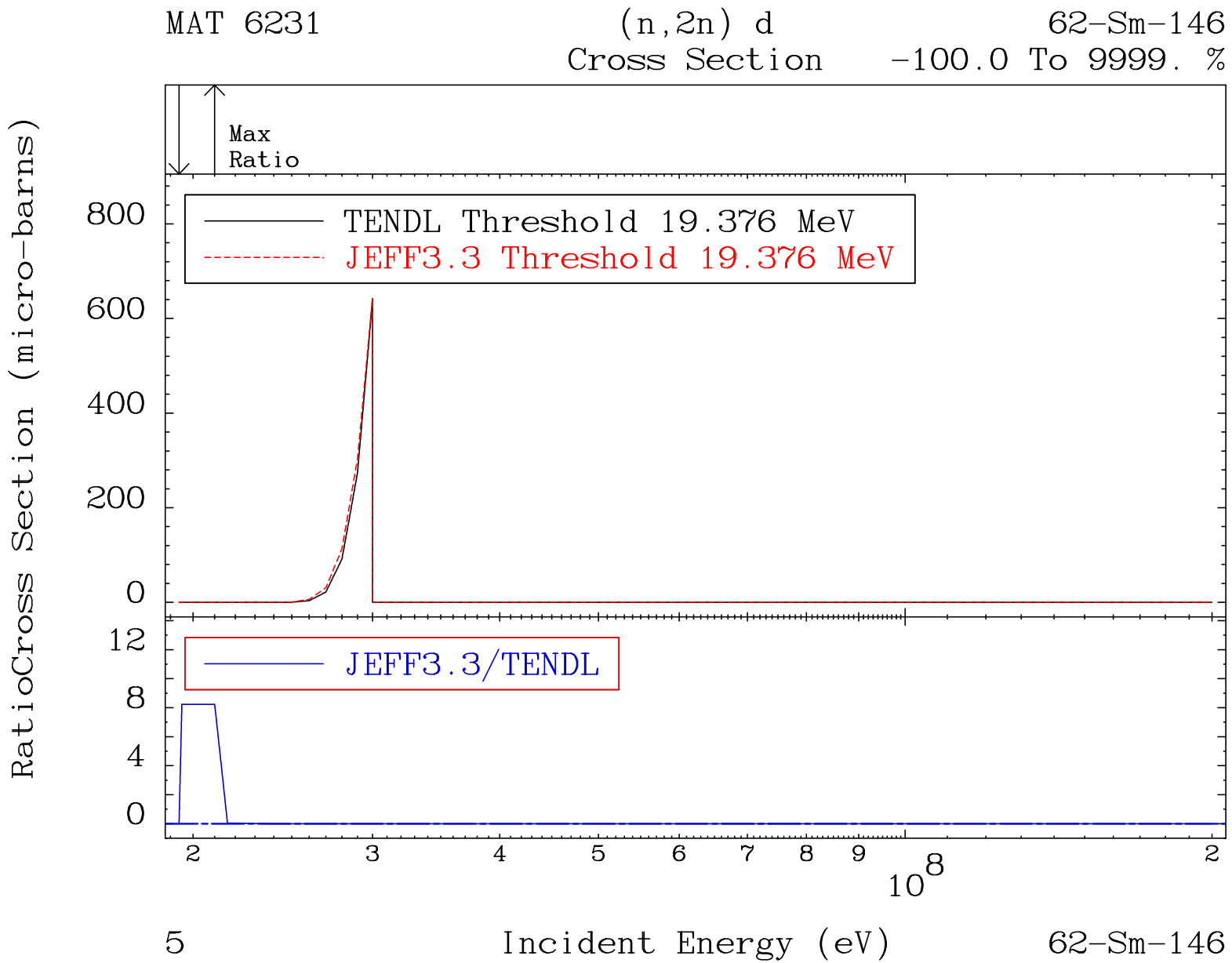
Press Mouse Button to Start

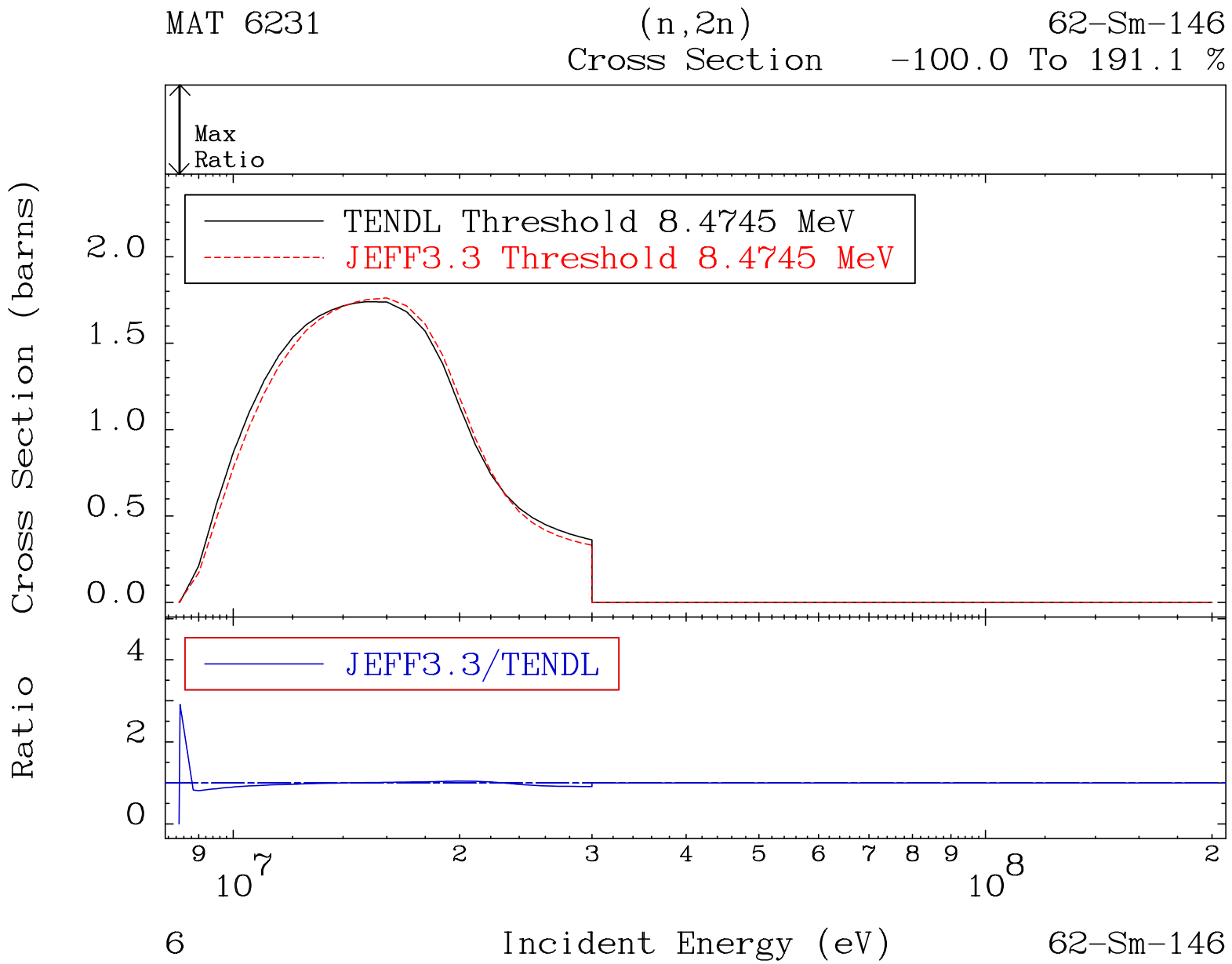

MAT 6231
Total
Cross Section
62-Sm-146
-99.99 To 9999. %
Min
Ratio
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
62-Sm-146

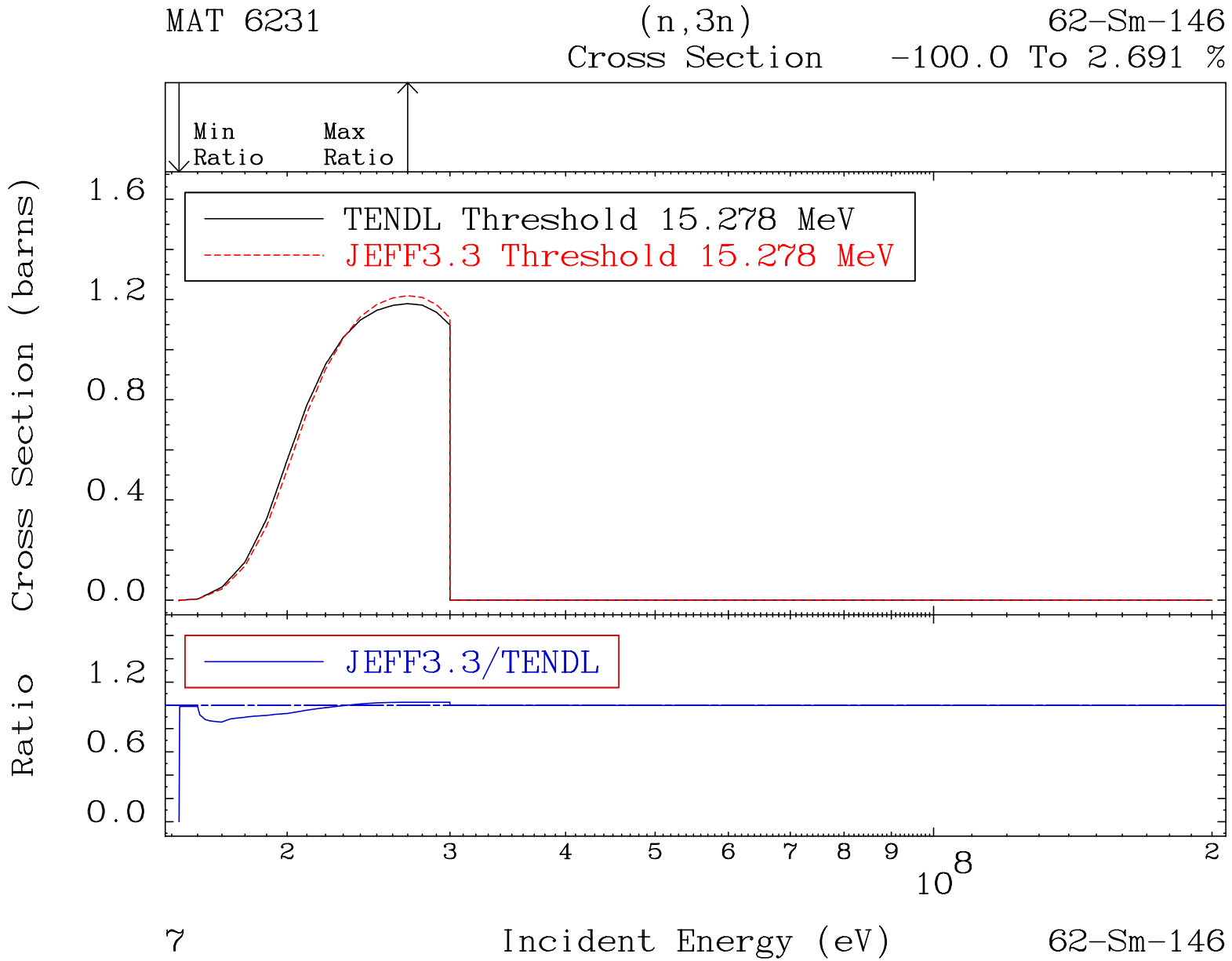

MAT 6231
Elastic
Cross Section
62-Sm-146
-99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
62-Sm-146

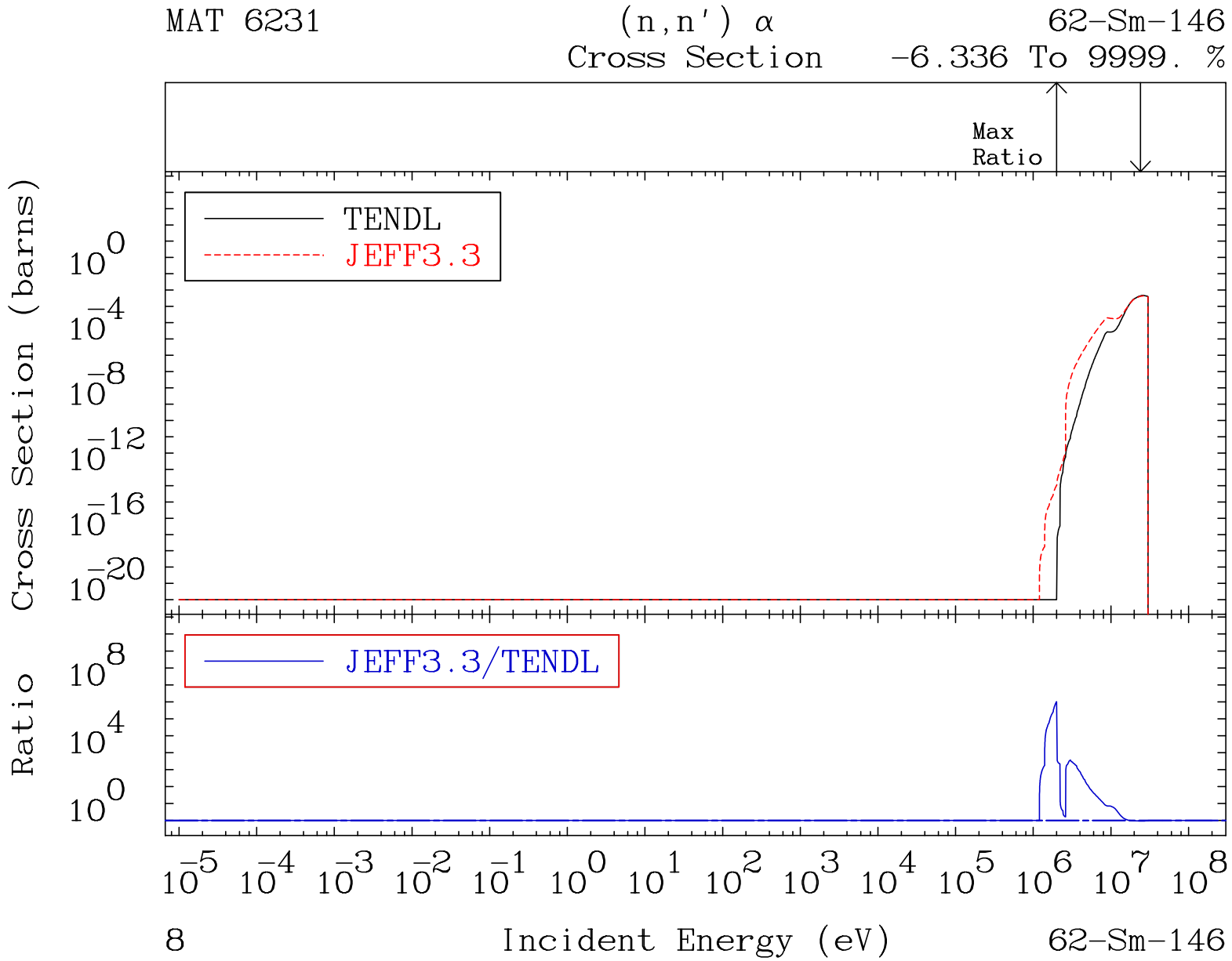

MAT 6231
Inelastic
Cross Section
62-Sm-146
-30.39 To 4.695 %
Min Ratio
Max Ratio
TENDL Threshold 752.34 keV
JEFF3.3 Threshold 752.34 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
62-Sm-146

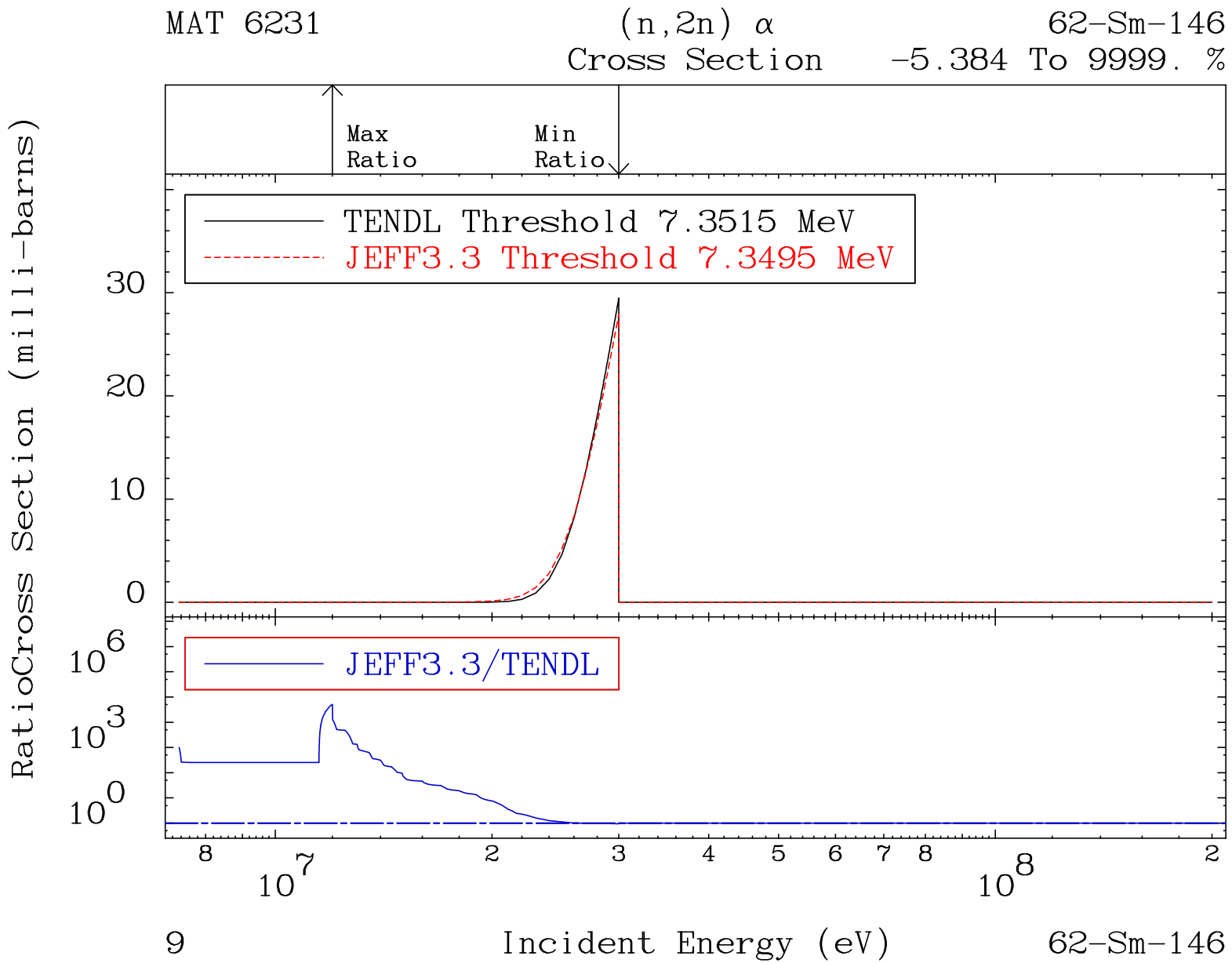

MAT 6231
(n,remainder)
Cross Section
62-Sm-146
-4.009 To 0.000 %
Max
Ratio
Min
Ratio
TENDL Threshold 30.000 MeV
JEFF3.3 Threshold 30.000 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
1.02
1.00
0.98
0.96
40
60
80
100
120
140
160
180
200
Incident Energy (MeV)
4
62-Sm-146

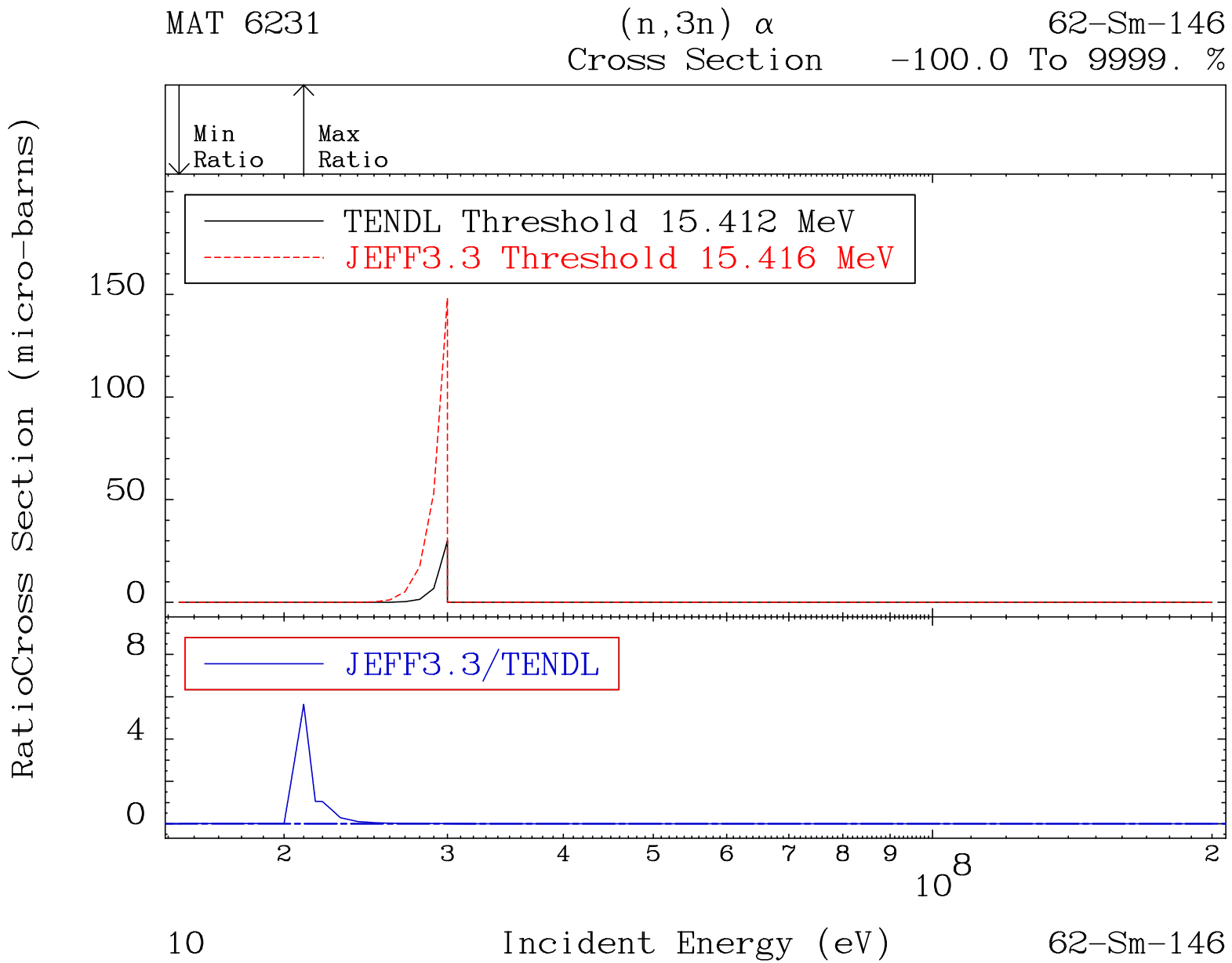

MAT 6231
(n,2n) d
Cross Section
62-Sm-146
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 19.376 MeV
JEFF3.3 Threshold 19.376 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
12
8
4
0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
62-Sm-146

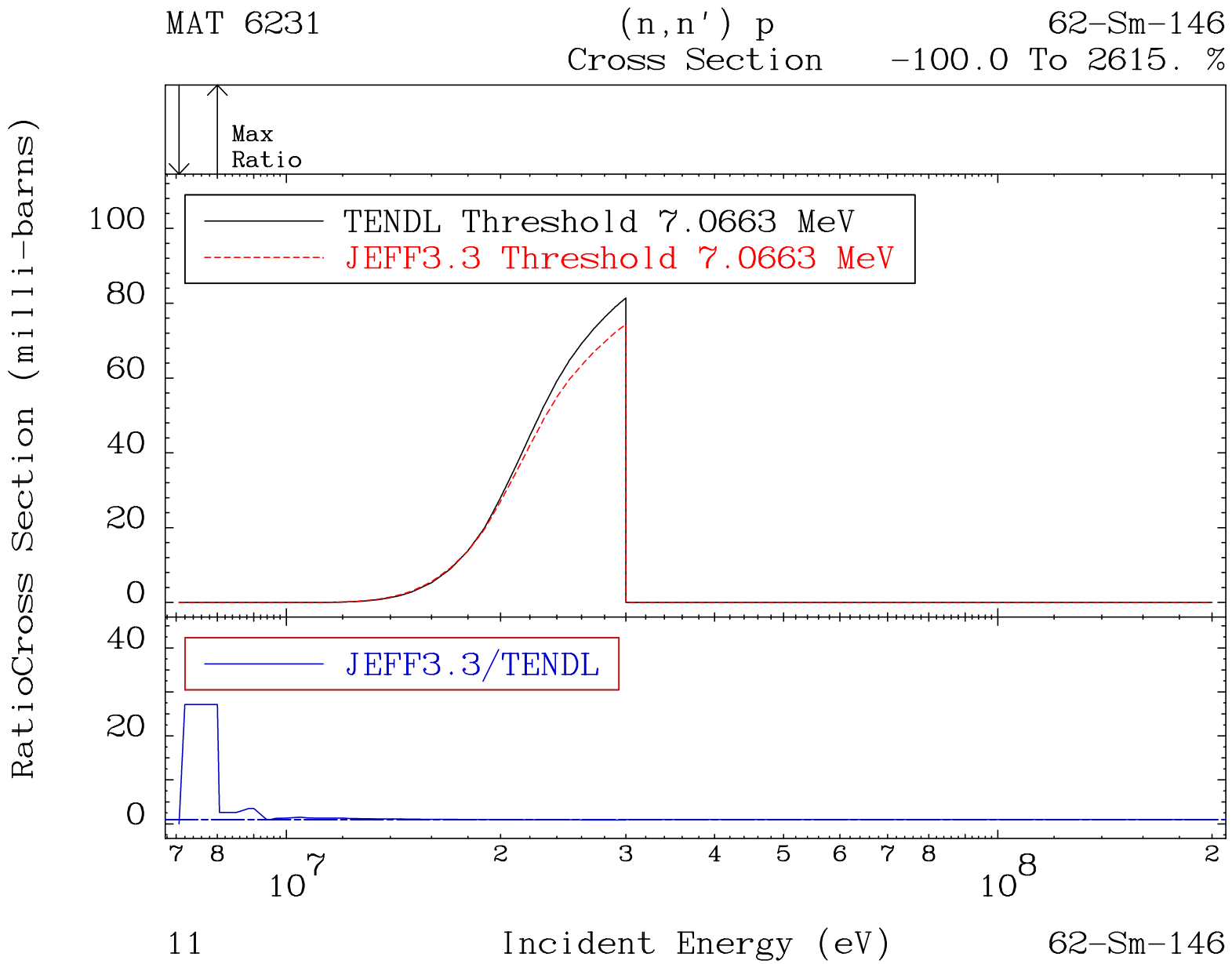

MAT 6231
(n,2n)
Cross Section
62-Sm-146
-100.0 To 191.1 %
Max
Ratio
TENDL Threshold 8.4745 MeV
JEFF3.3 Threshold 8.4745 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
4
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
62-Sm-146

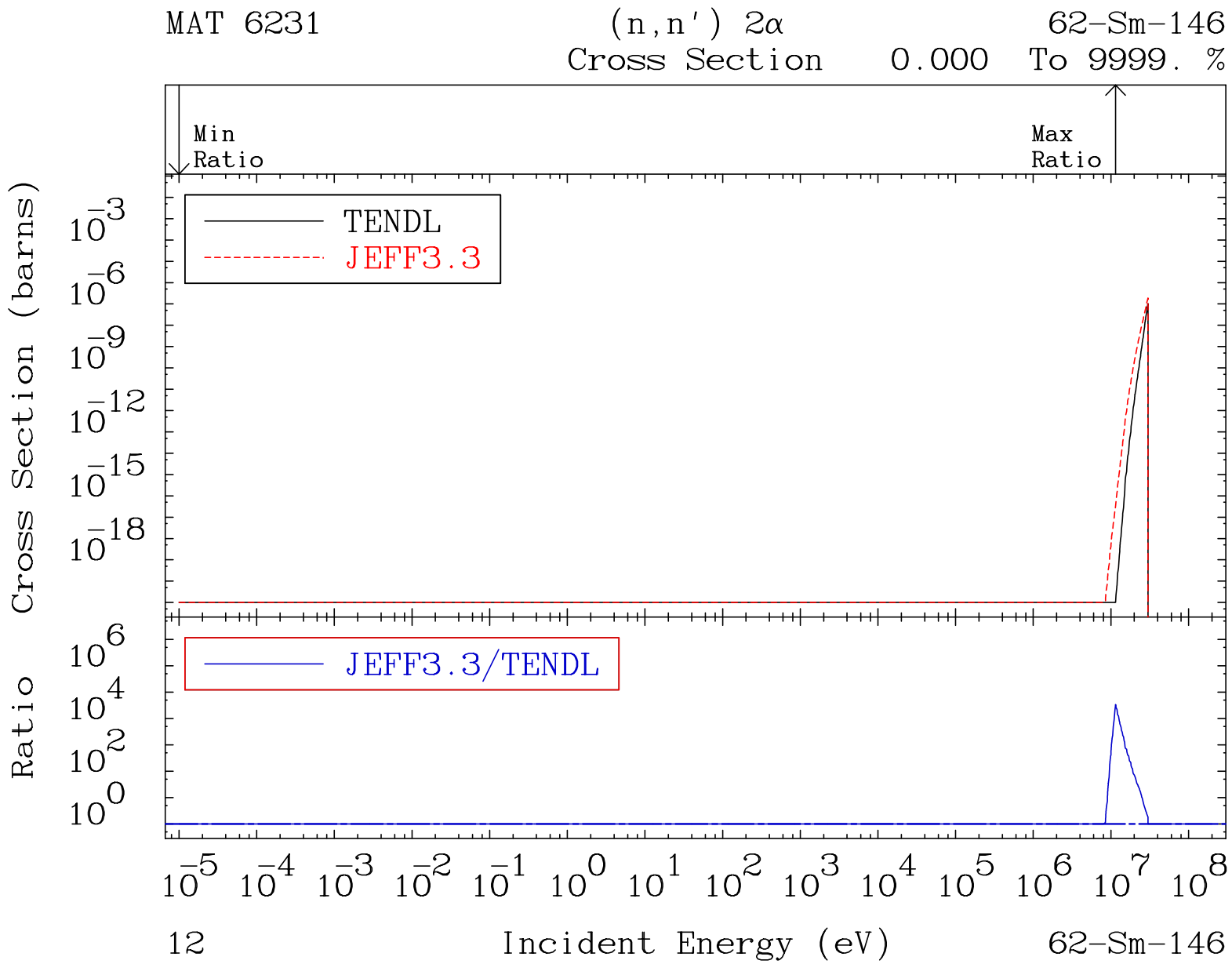

MAT 6231
(n,3n)
Cross Section
62-Sm-146
-100.0 To 2.691 %
Min Ratio
Max Ratio
TENDL Threshold 15.278 MeV
JEFF3.3 Threshold 15.278 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
7
Incident Energy (eV)
62-Sm-146

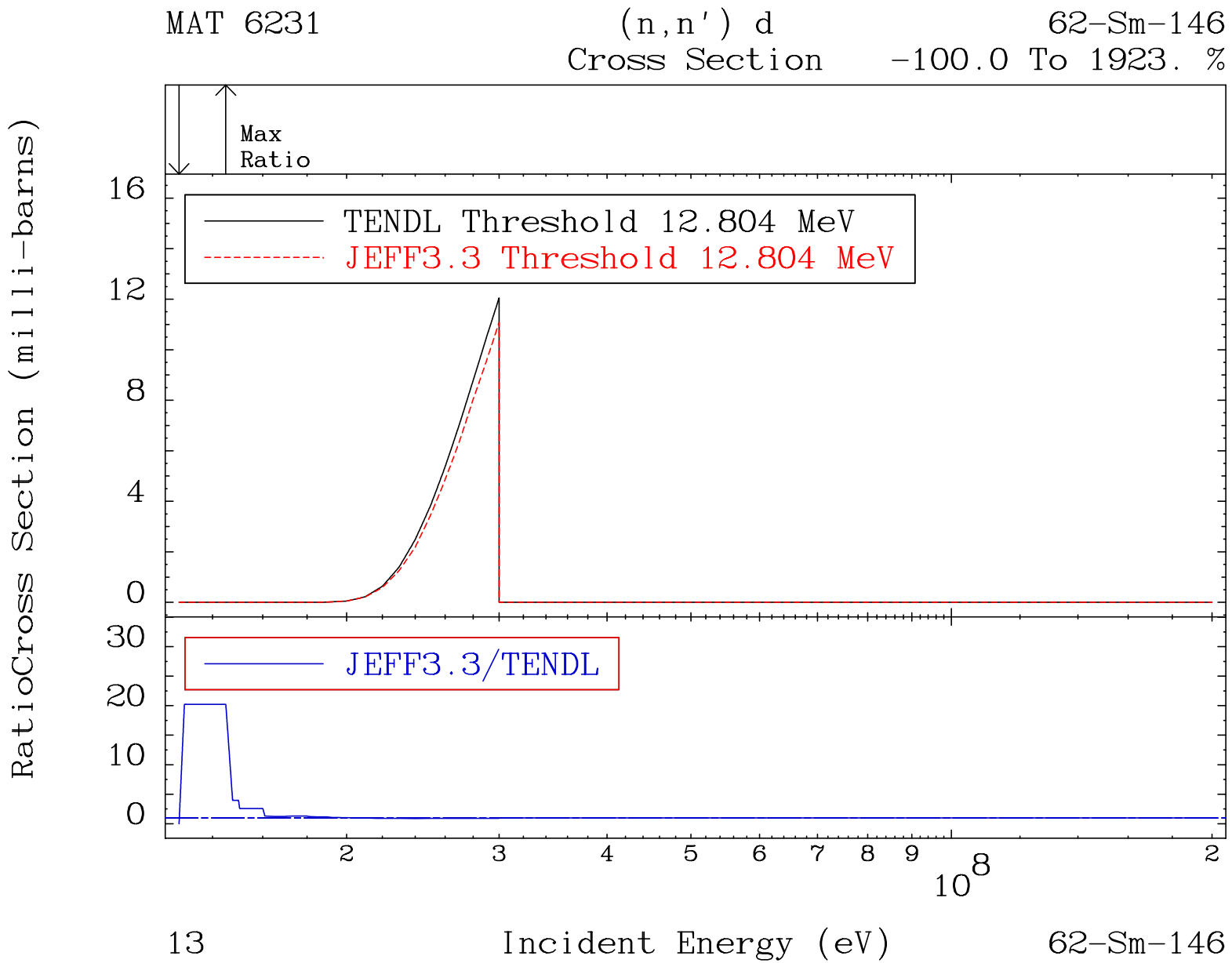

MAT 6231
(n,n') α
Cross Section
62-Sm-146
-6.336 To 9999. %
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
8
62-Sm-146

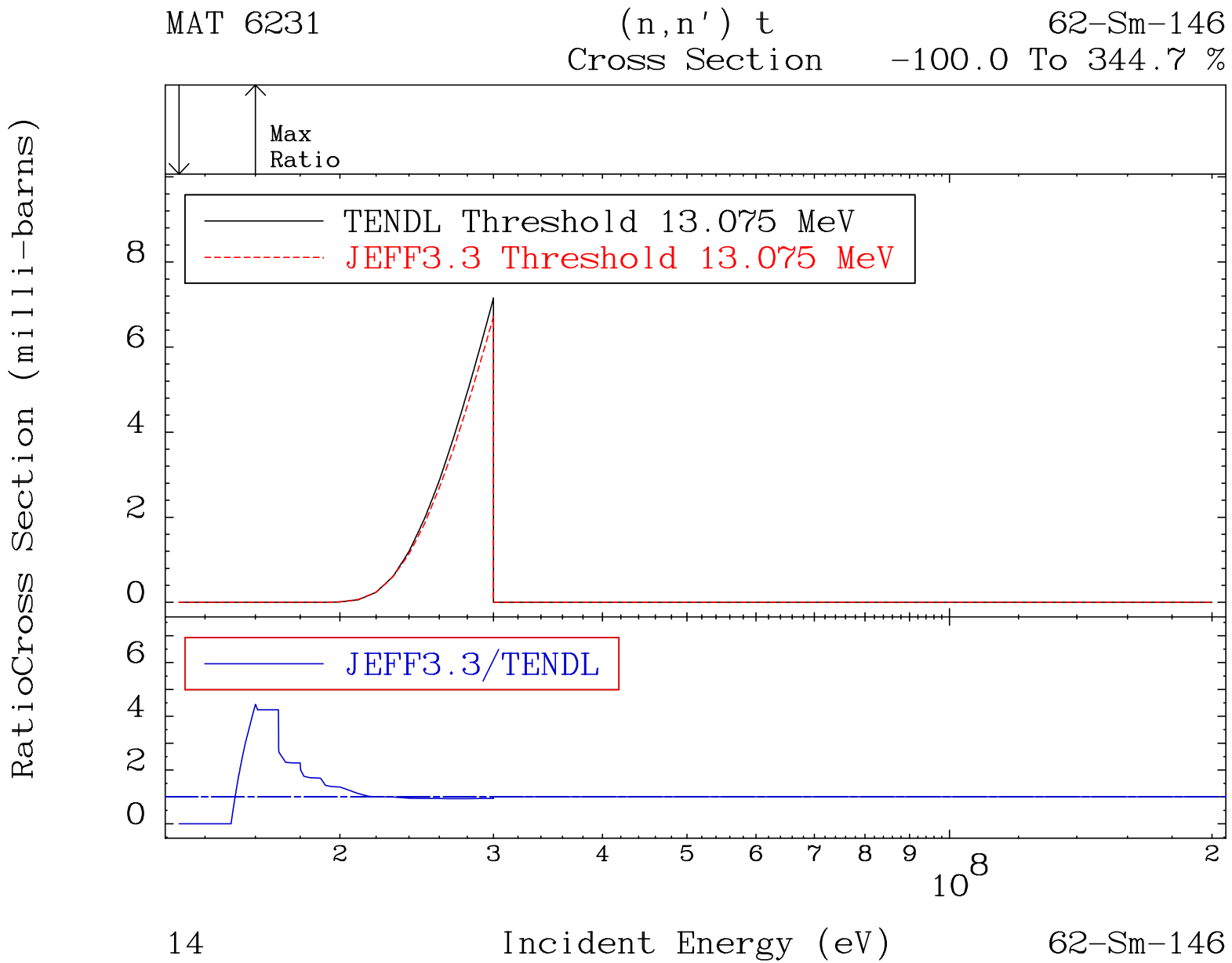

MAT 6231
(n,2n) α
62-Sm-146
Cross Section
-5.384 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.3515 MeV
JEFF3.3 Threshold 7.3495 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
20
10
0
10^6
10^3
10^0
8
10^7
2
3
4
5
6
7
8
10^8
2
9
Incident Energy (eV)
62-Sm-146

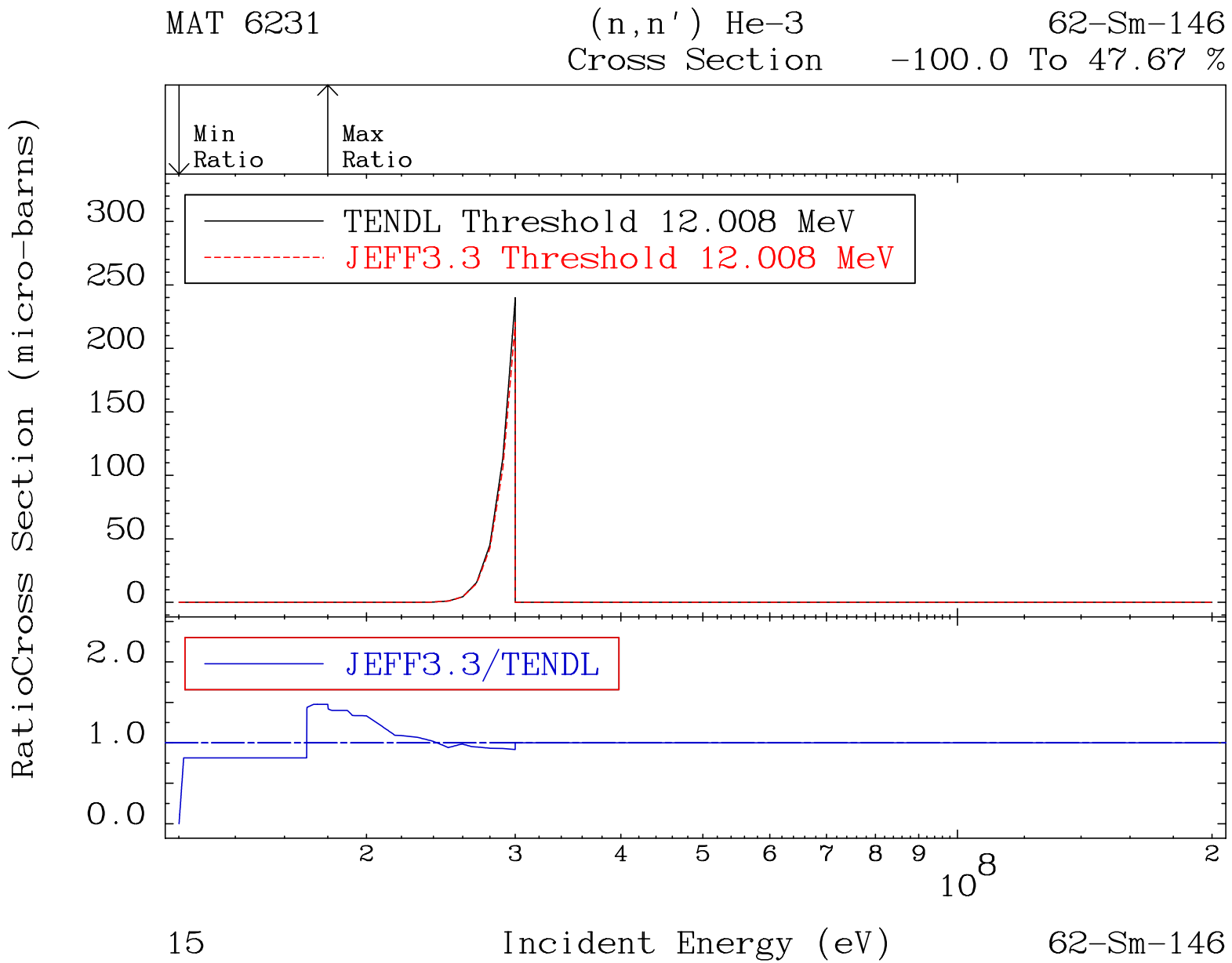

MAT 6231
(n,3n) α
Cross Section
62-Sm-146
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 15.412 MeV
JEFF3.3 Threshold 15.416 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
150
100
50
0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
62-Sm-146

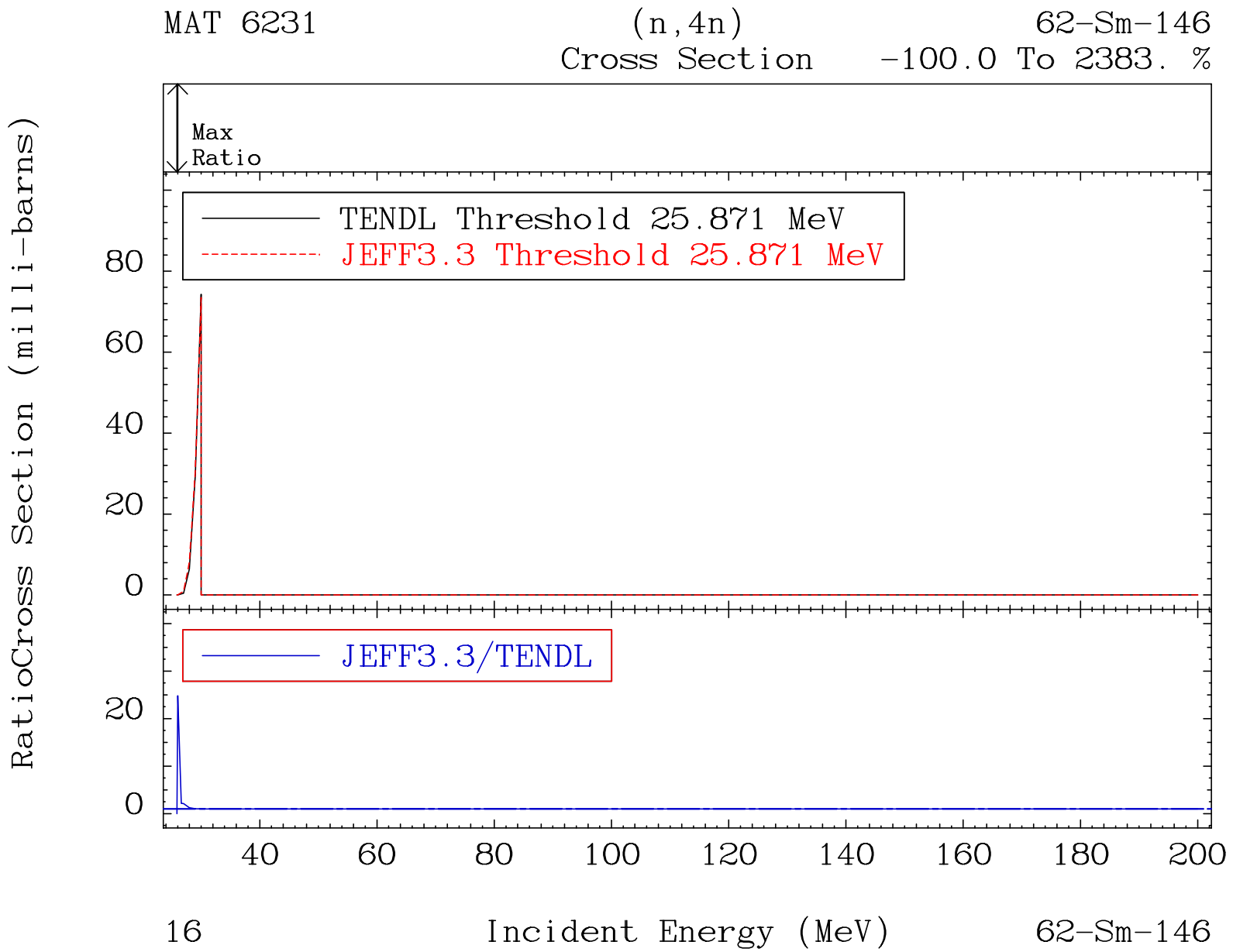

MAT 6231
(n,n') p
Cross Section
62-Sm-146
-100.0 To 2615. %
Max
Ratio
TENDL Threshold 7.0663 MeV
JEFF3.3 Threshold 7.0663 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
40
20
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
62-Sm-146

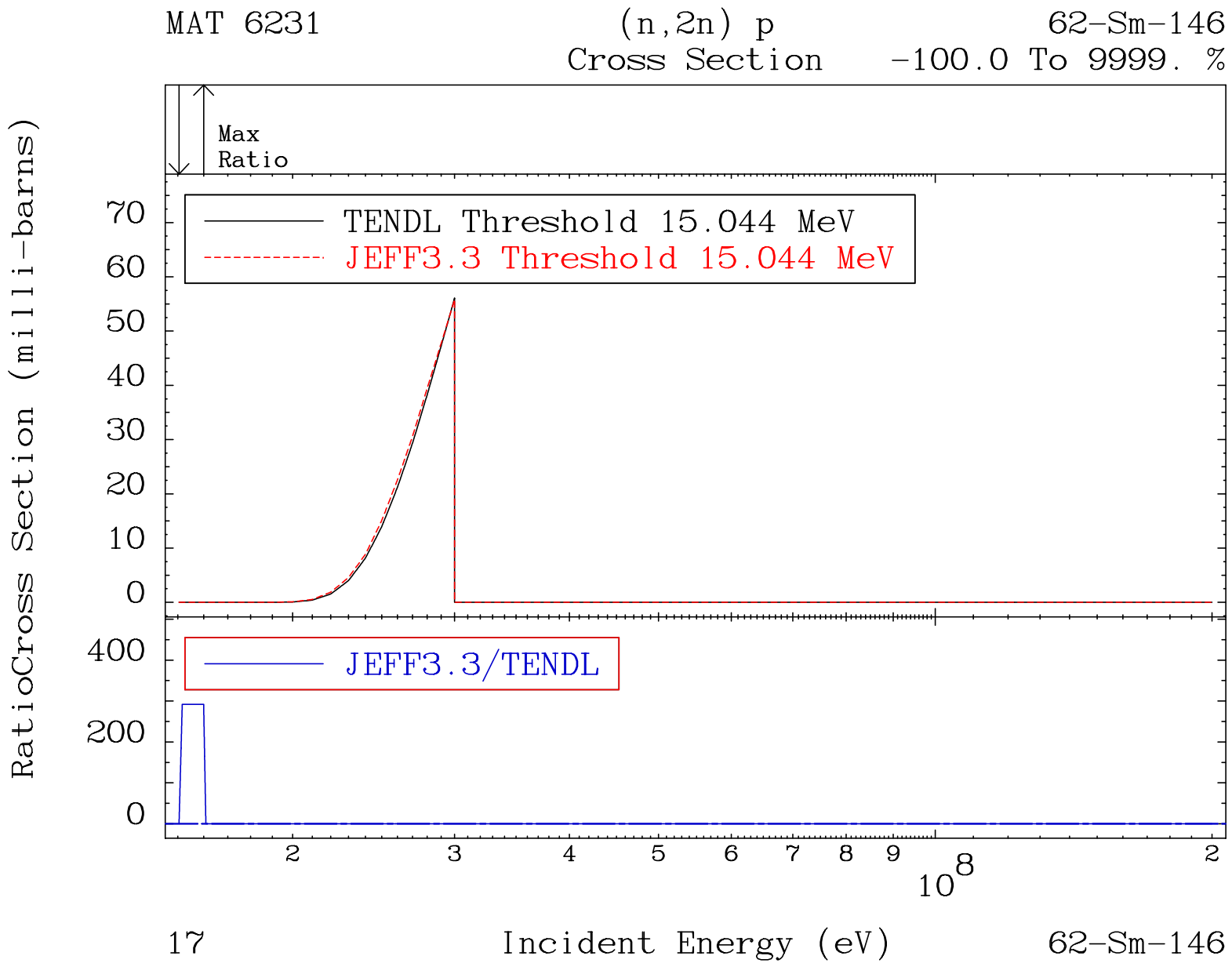

MAT 6231
(n,n') 2α
62-Sm-146
Cross Section 0.000 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
12
62-Sm-146

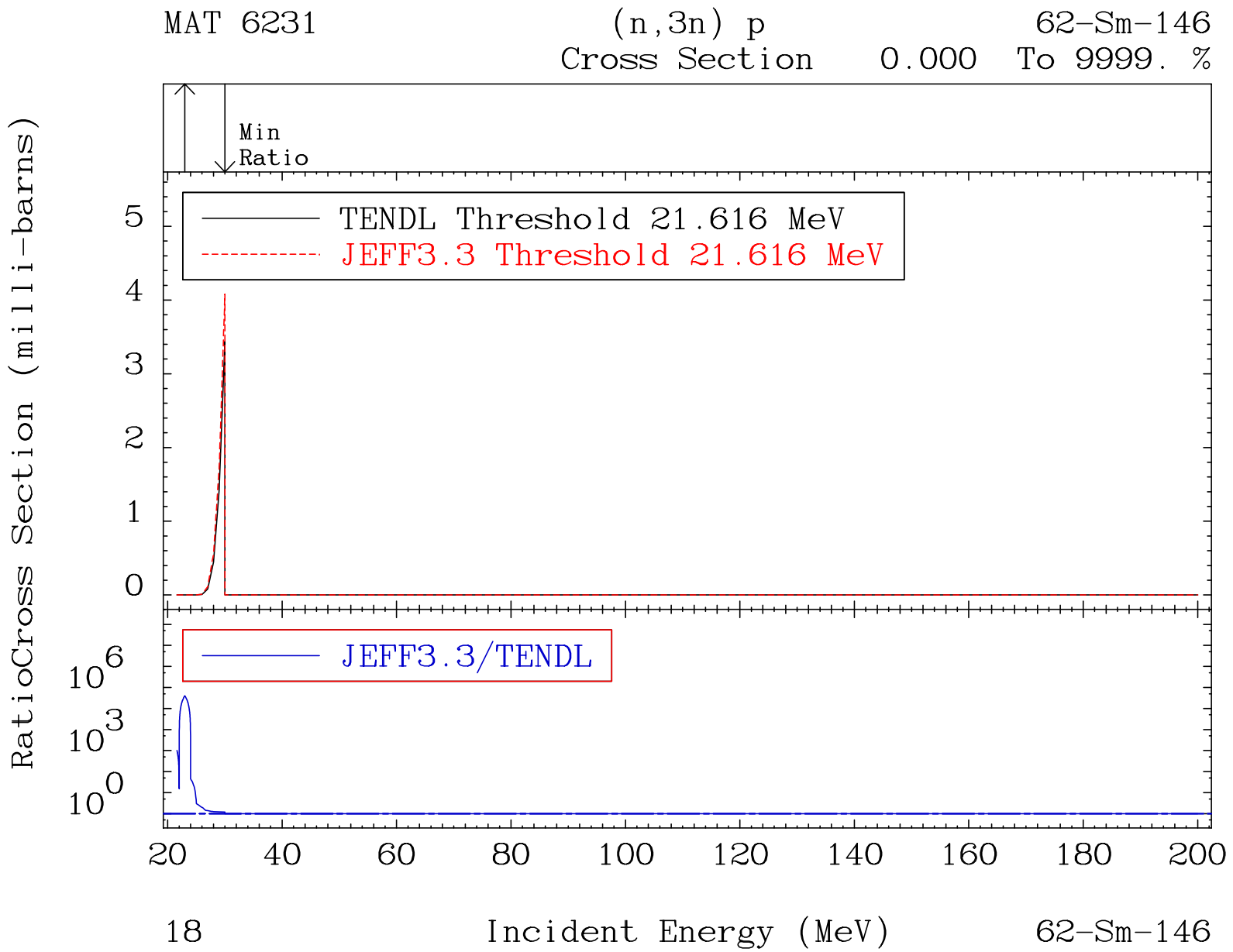

MAT 6231
(n,n') d
Cross Section
62-Sm-146
-100.0 To 1923. %
Max
Ratio
TENDL Threshold 12.804 MeV
JEFF3.3 Threshold 12.804 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
30
20
10
0
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
62-Sm-146

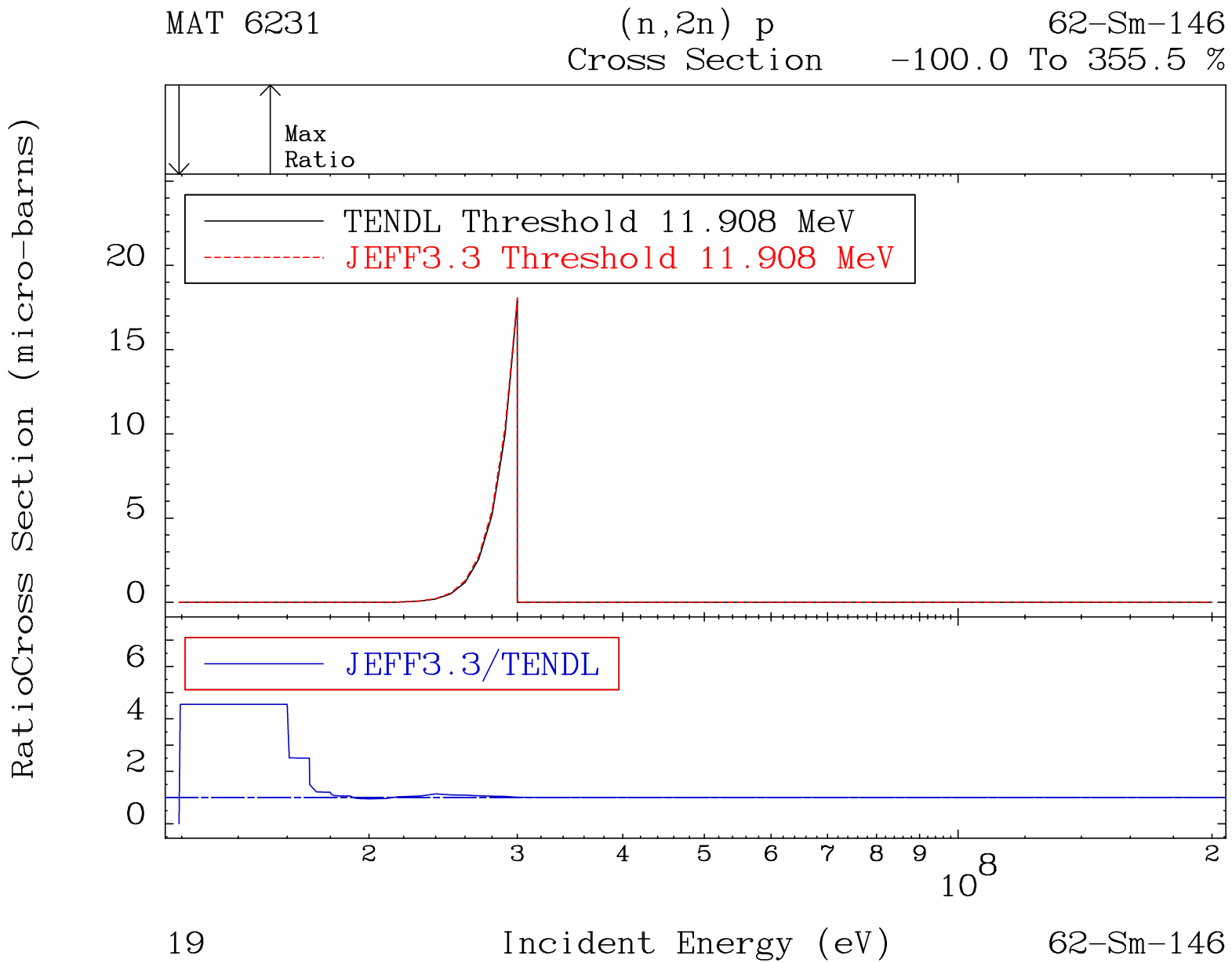

MAT 6231
(n,n') t
Cross Section
62-Sm-146
-100.0 To 344.7 %
Max
Ratio
TENDL Threshold 13.075 MeV
JEFF3.3 Threshold 13.075 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
62-Sm-146

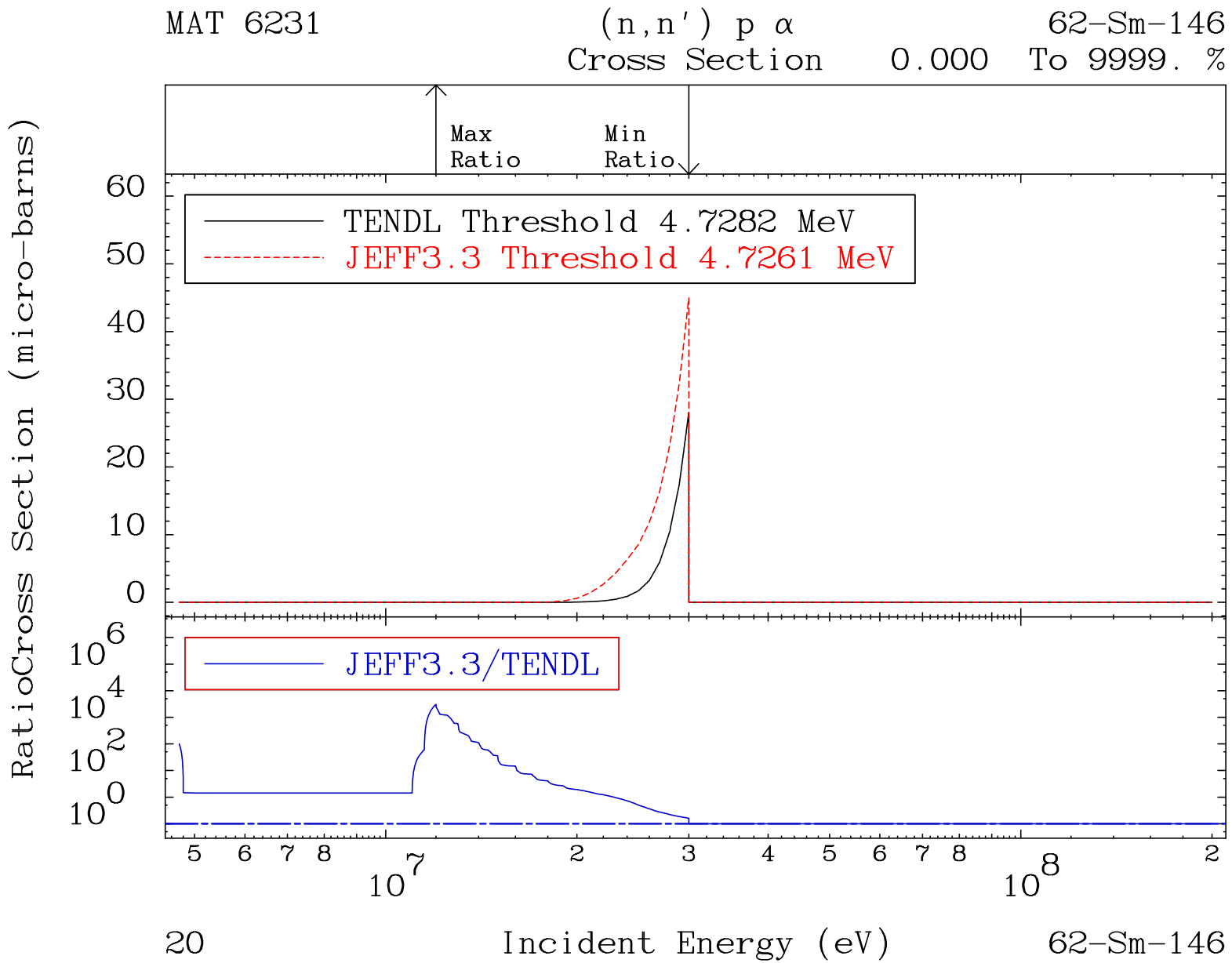

MAT 6231
(n,n') He-3
Cross Section
62-Sm-146
-100.0 To 47.67 %
Min Ratio
Max Ratio
TENDL Threshold 12.008 MeV
JEFF3.3 Threshold 12.008 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
300
250
200
150
100
50
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
62-Sm-146

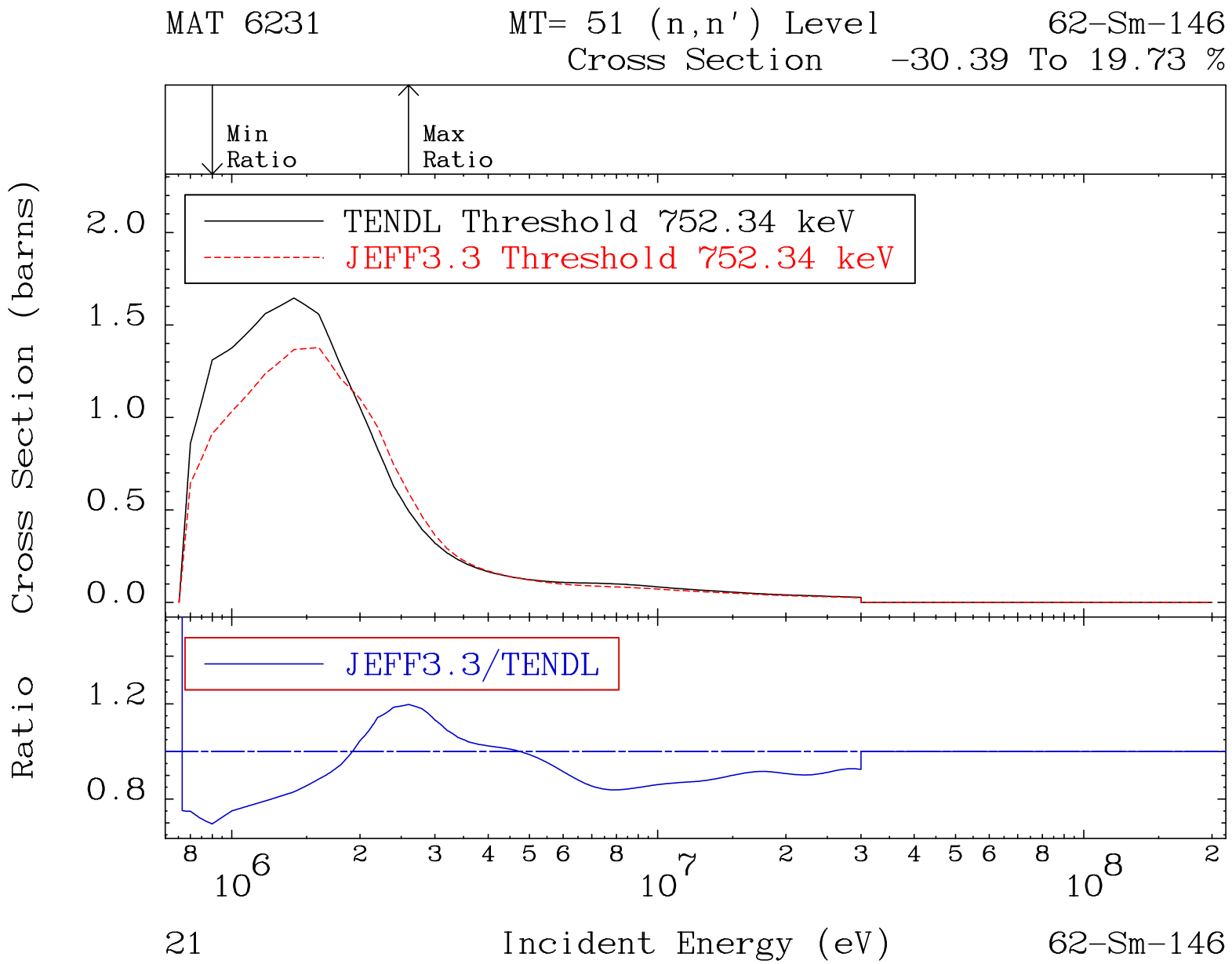

MAT 6231
(n,4n)
62-Sm-146
Cross Section
-100.0 To 2383. %
Max
Ratio
TENDL Threshold 25.871 MeV
JEFF3.3 Threshold 25.871 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
20
0
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
62-Sm-146

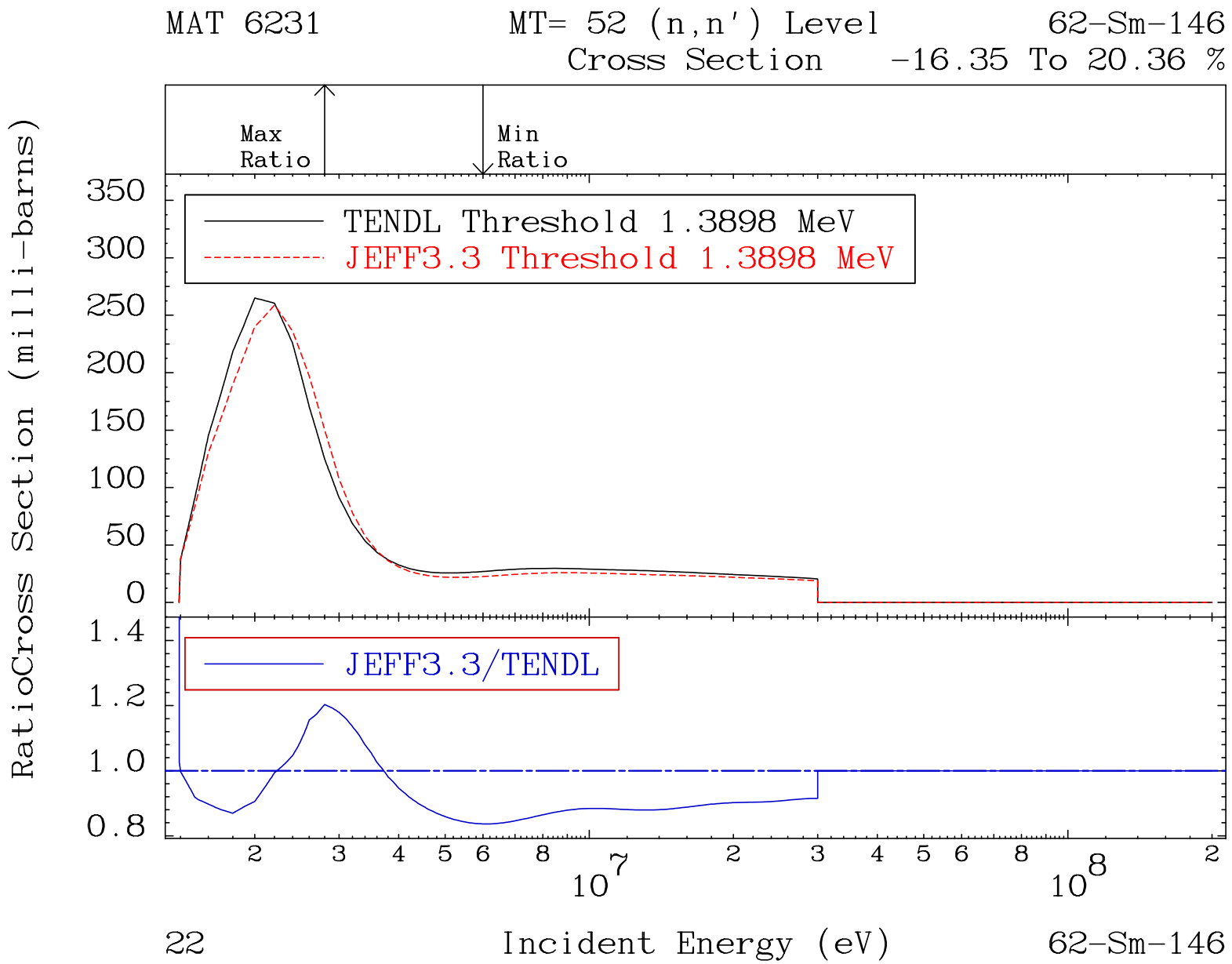

MAT 6231
(n,2n) p
Cross Section
62-Sm-146
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 15.044 MeV
JEFF3.3 Threshold 15.044 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
400
200
0
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
62-Sm-146

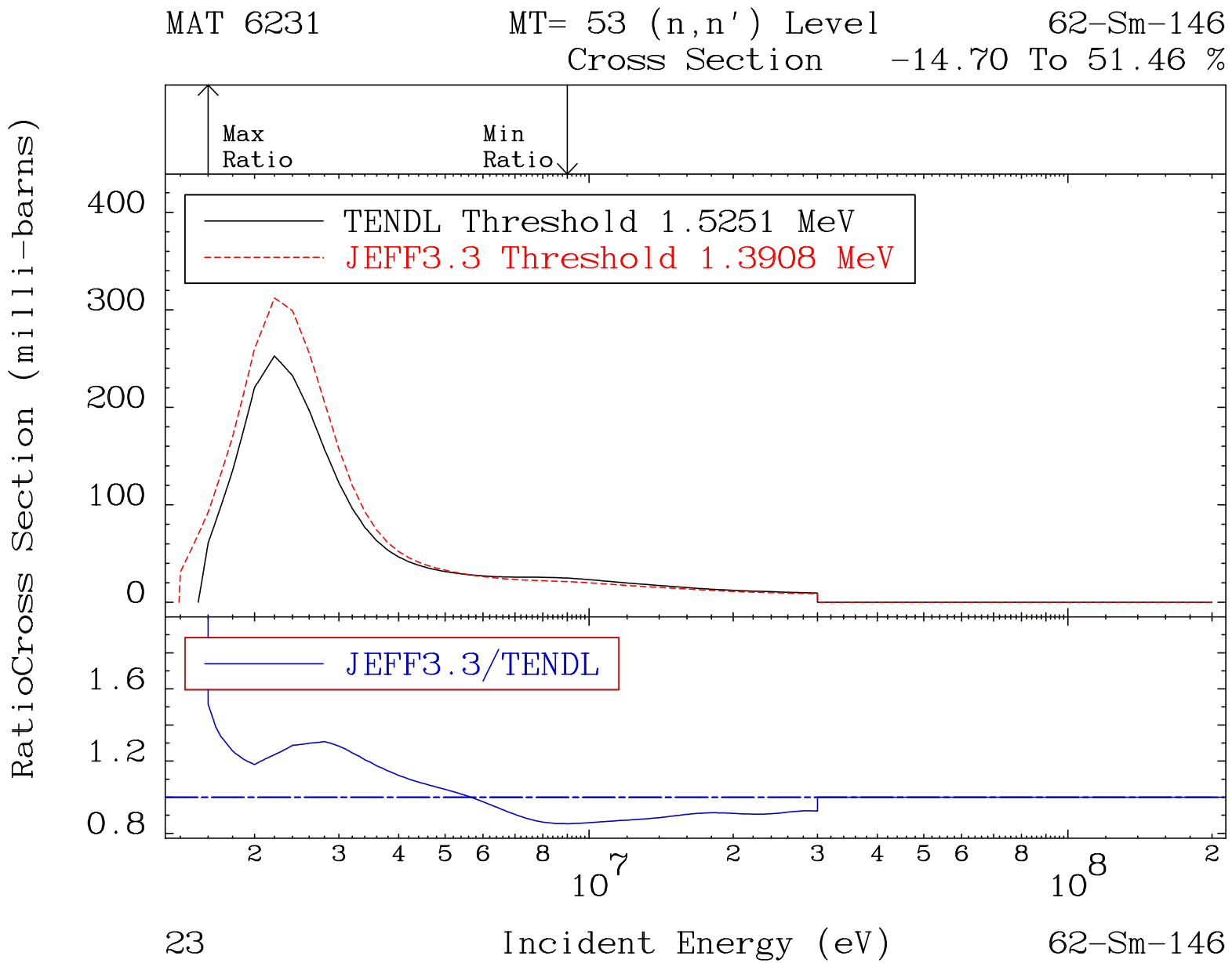

MAT 6231
(n,3n) p
62-Sm-146
Cross Section 0.000 To 9999. %
Min
Ratio
TENDL Threshold 21.616 MeV
JEFF3.3 Threshold 21.616 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
10^6
10^3
10^0
20
40
60
80
100
120
140
160
180
200
18
Incident Energy (MeV)
62-Sm-146

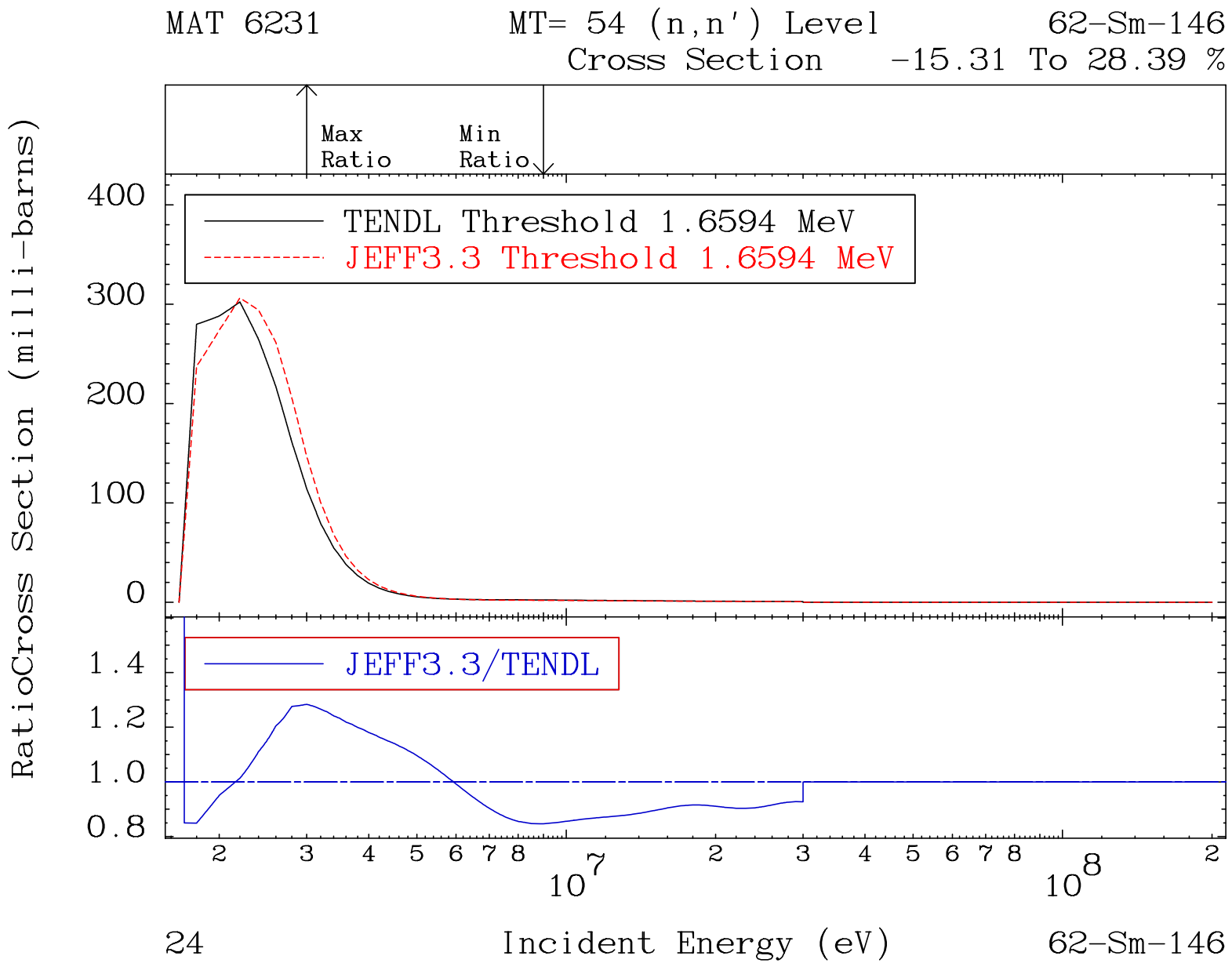

MAT 6231
(n,2n) p
Cross Section
62-Sm-146
-100.0 To 355.5 %
Max
Ratio
TENDL Threshold 11.908 MeV
JEFF3.3 Threshold 11.908 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
20
15
10
5
0
6
4
2
0
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
62-Sm-146

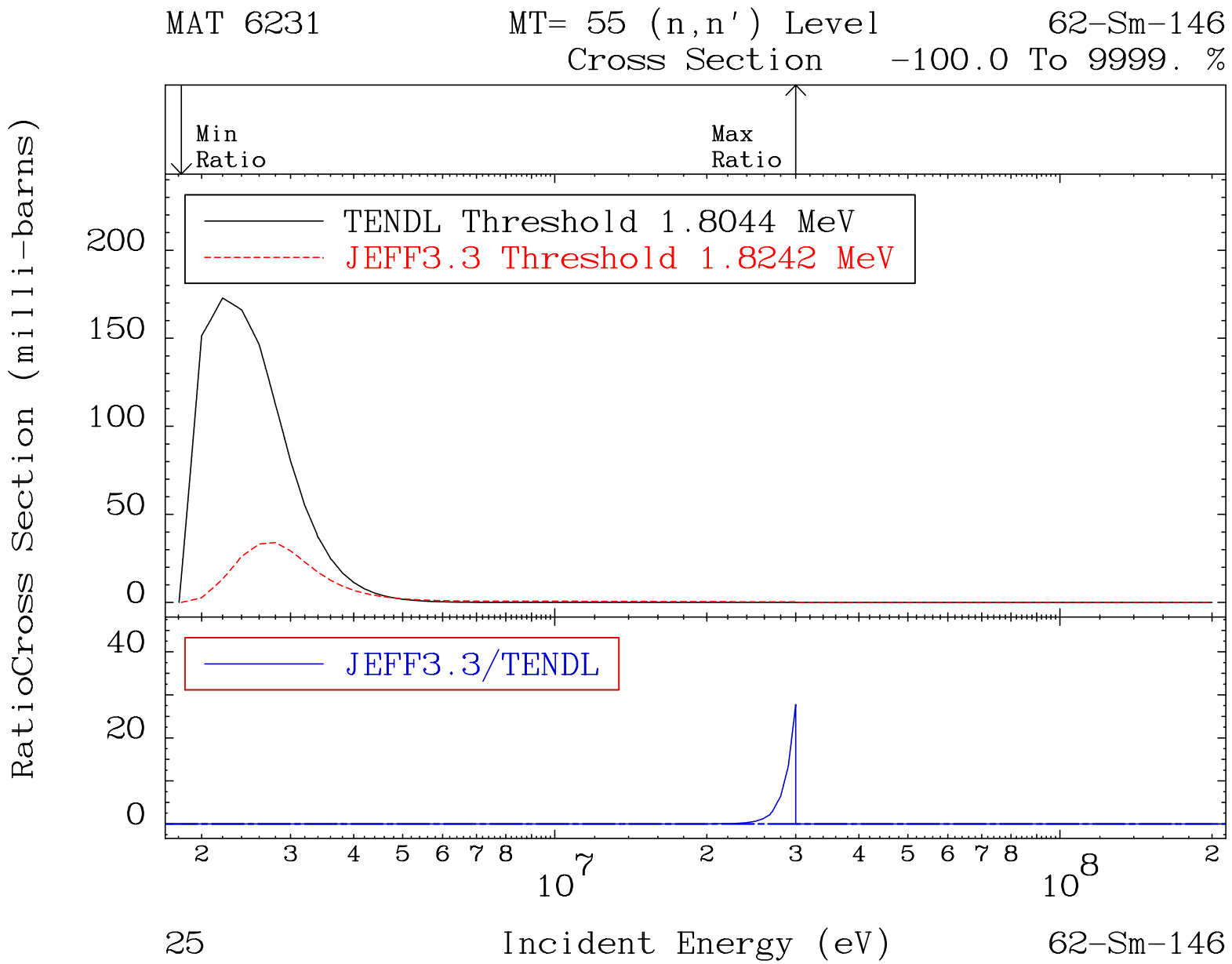

MAT 6231
(n,n') p α
62-Sm-146
Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.7282 MeV
JEFF3.3 Threshold 4.7261 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
20
62-Sm-146

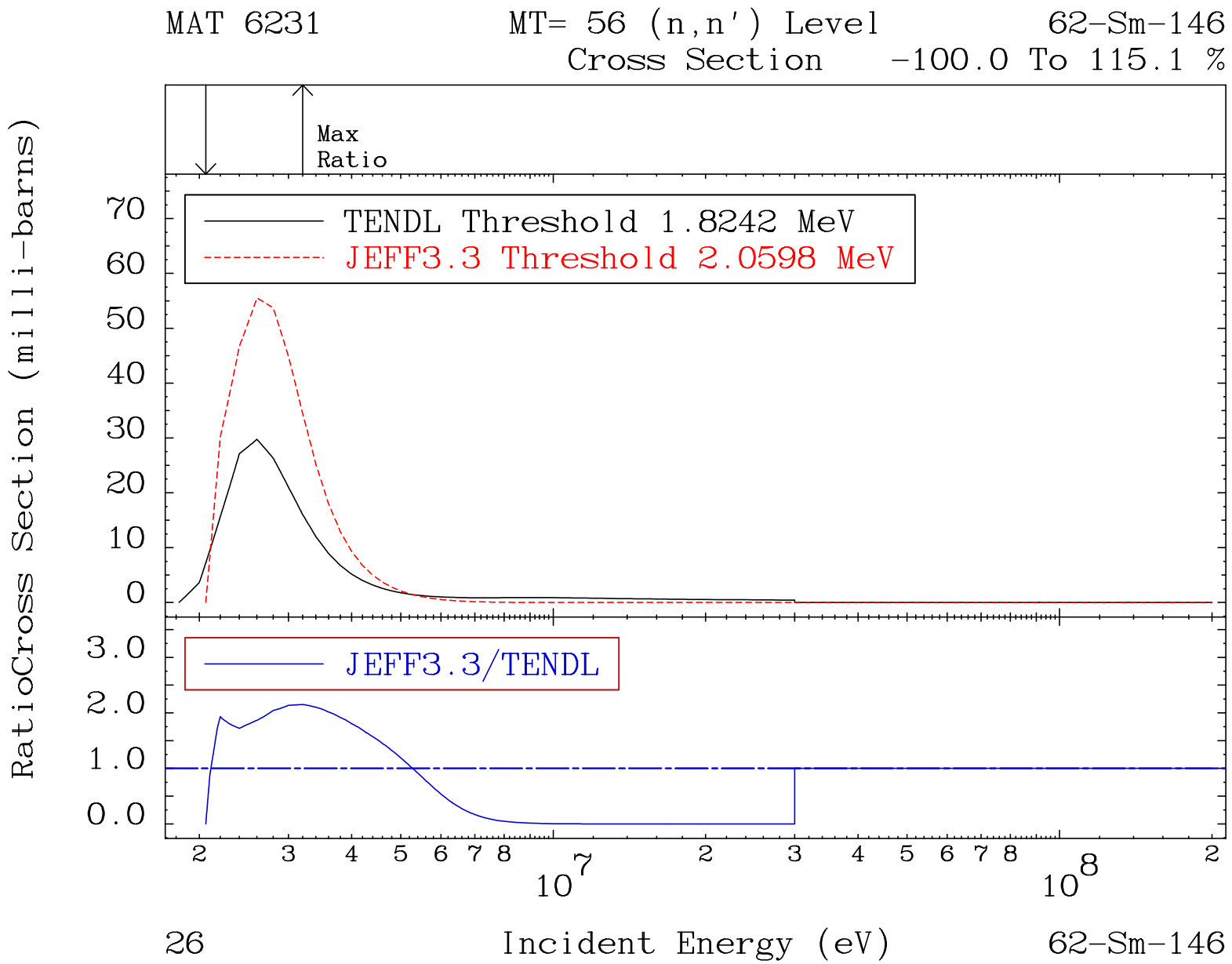

MAT 6231
MT= 51 (n,n') Level
62-Sm-146
Cross Section
-30.39 To 19.73 %
Min Ratio
Max Ratio
TENDL Threshold 752.34 keV
JEFF3.3 Threshold 752.34 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.8
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
21
Incident Energy (eV)
62-Sm-146

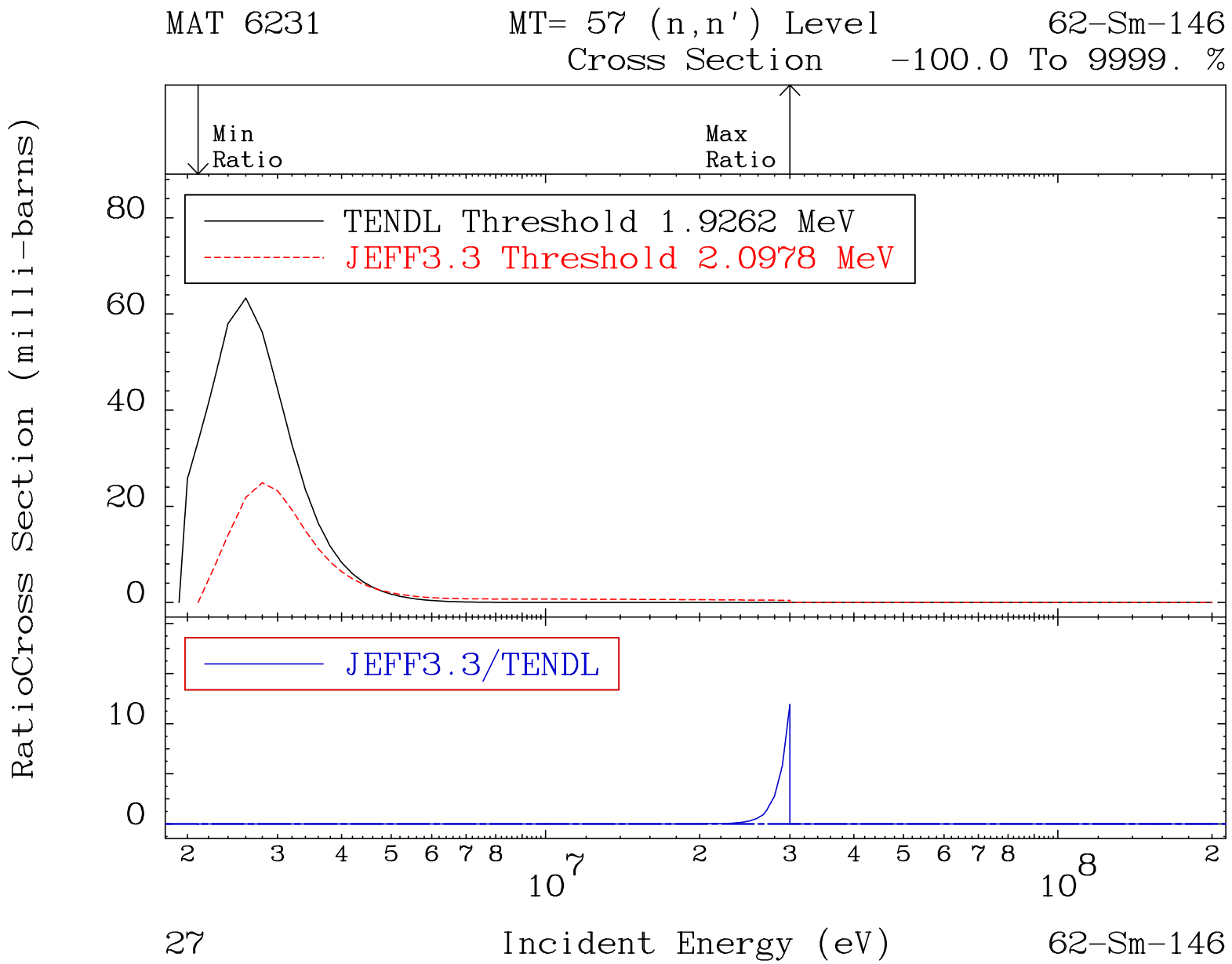

MAT 6231
MT= 52 (n,n') Level
62-Sm-146
Cross Section
-16.35 To 20.36 %
Max Ratio
Min Ratio
TENDL Threshold 1.3898 MeV
JEFF3.3 Threshold 1.3898 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
1.4
1.2
1.0
0.8
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
22
Incident Energy (eV)
62-Sm-146

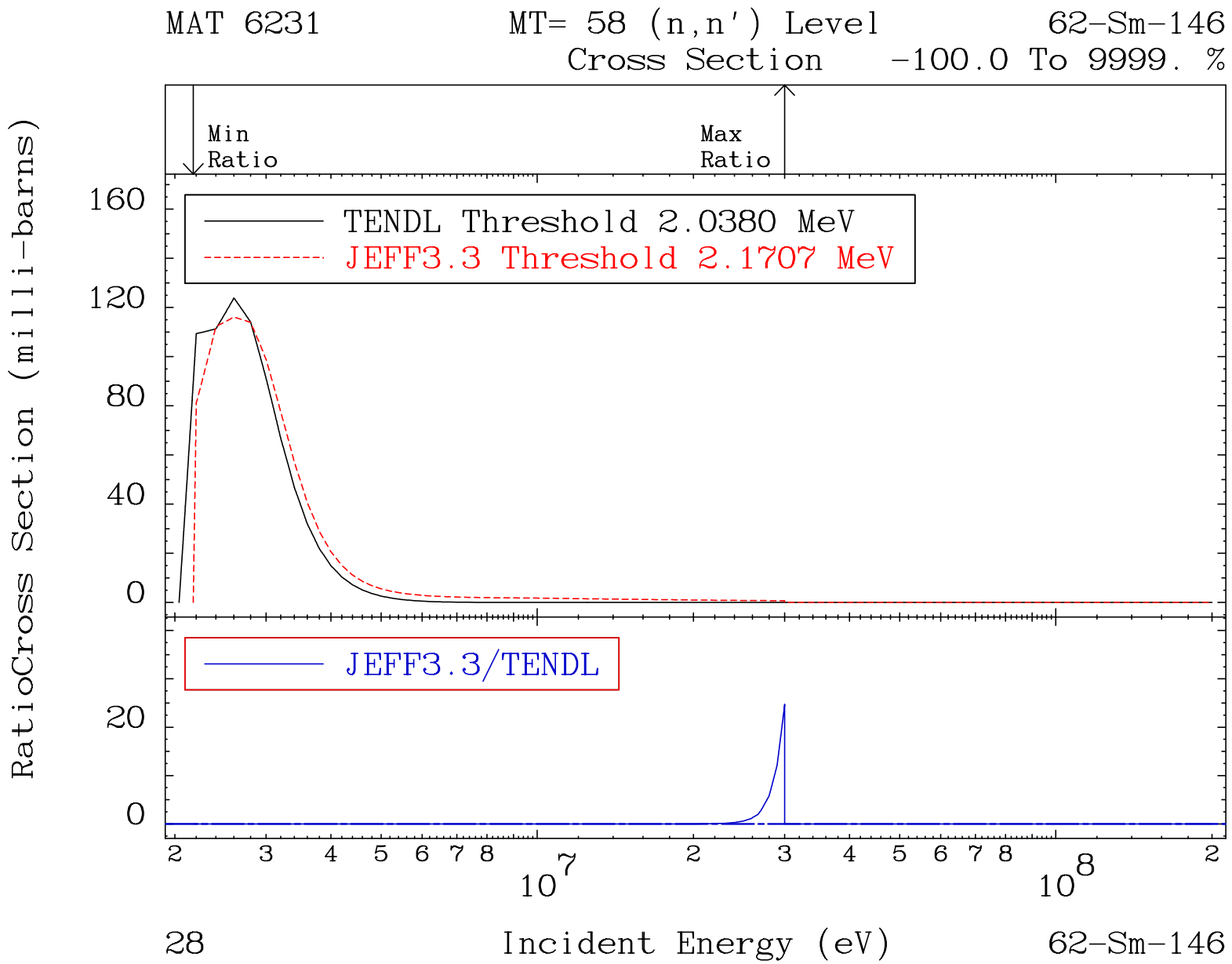

MAT 6231
MT= 53 (n,n') Level
62-Sm-146
Cross Section -14.70 To 51.46 %
Max Ratio
Min Ratio
TENDL Threshold 1.5251 MeV
JEFF3.3 Threshold 1.3908 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.6
1.2
0.8
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
23
Incident Energy (eV)
62-Sm-146

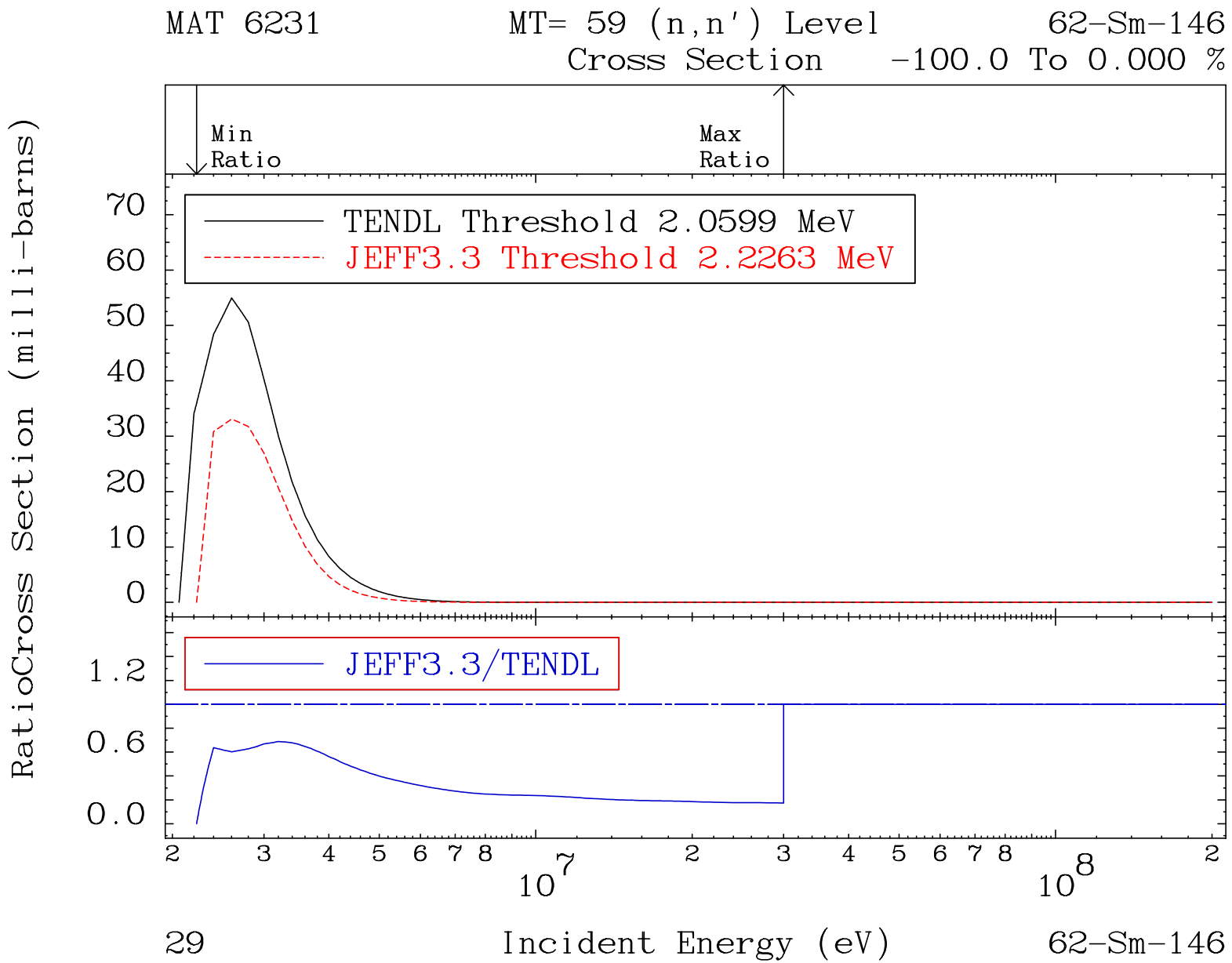

MAT 6231
MT= 54 (n,n') Level
62-Sm-146
Cross Section -15.31 To 28.39 %
Max Ratio
Min Ratio
TENDL Threshold 1.6594 MeV
JEFF3.3 Threshold 1.6594 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.4
1.2
1.0
0.8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
62-Sm-146

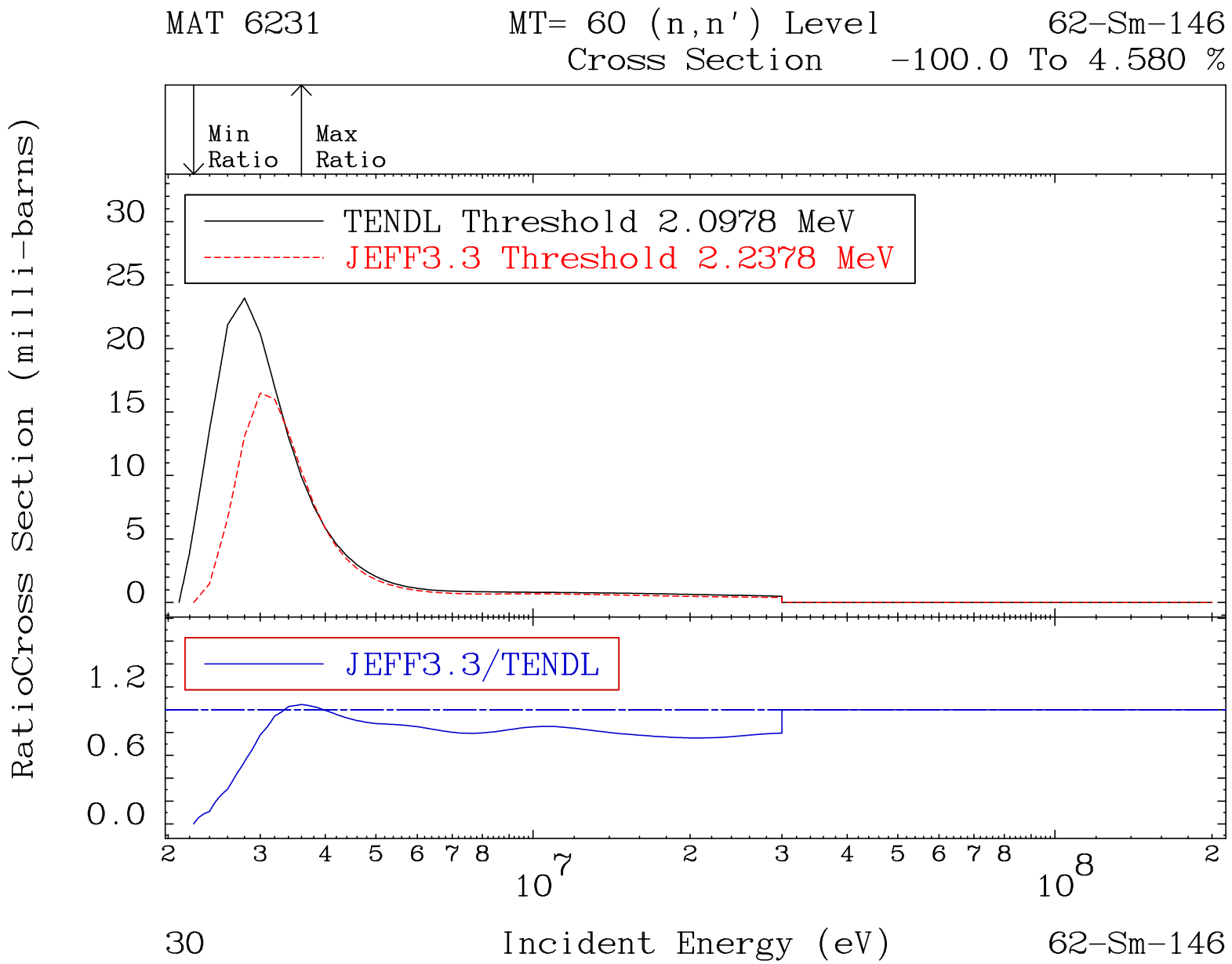

MAT 6231
MT= 55 (n,n') Level
62-Sm-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8044 MeV
JEFF3.3 Threshold 1.8242 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
62-Sm-146

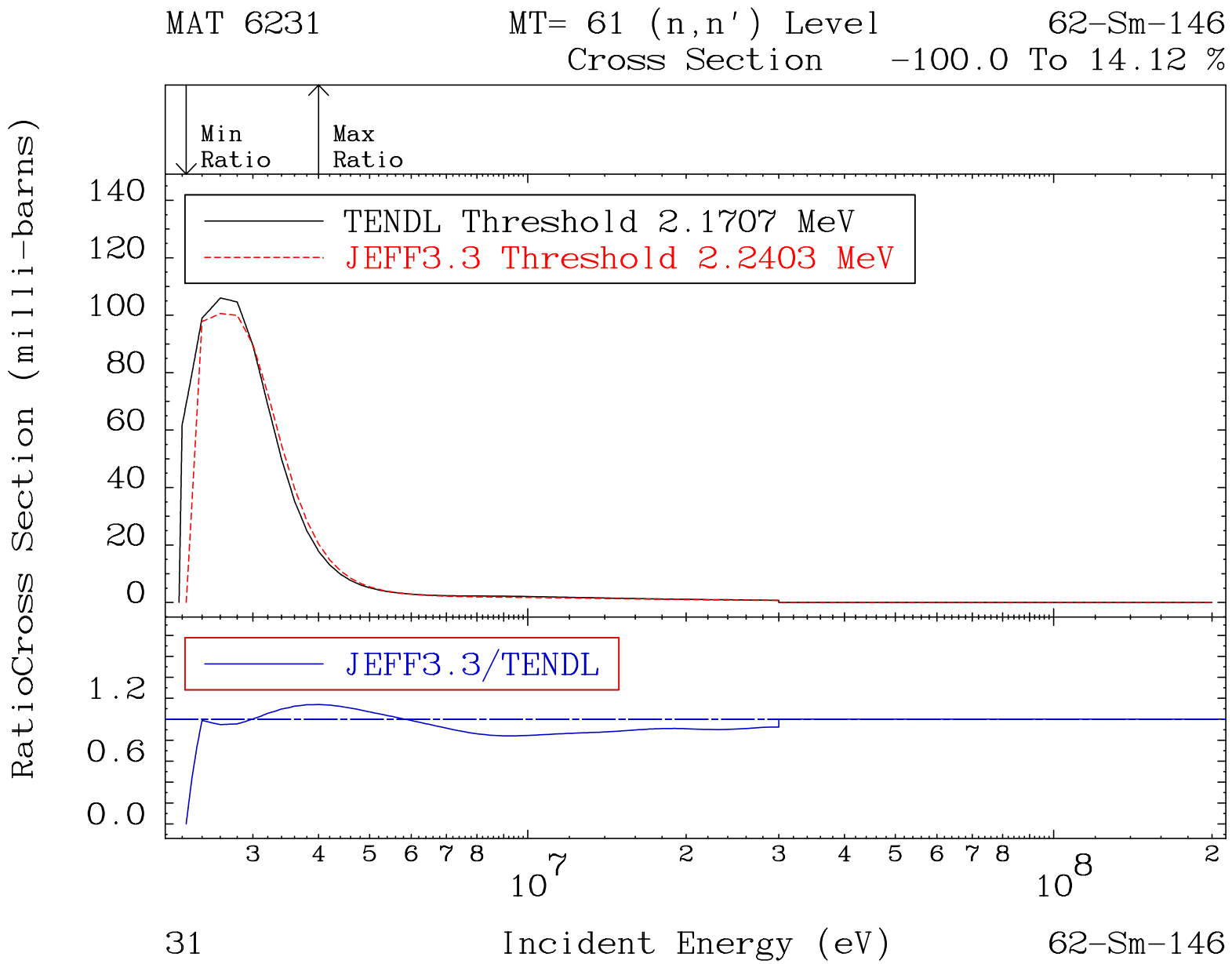

MAT 6231
MT= 56 (n,n') Level
62-Sm-146
Cross Section
-100.0 To 115.1 %
Max
Ratio
TENDL Threshold 1.8242 MeV
JEFF3.3 Threshold 2.0598 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
3.0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
62-Sm-146

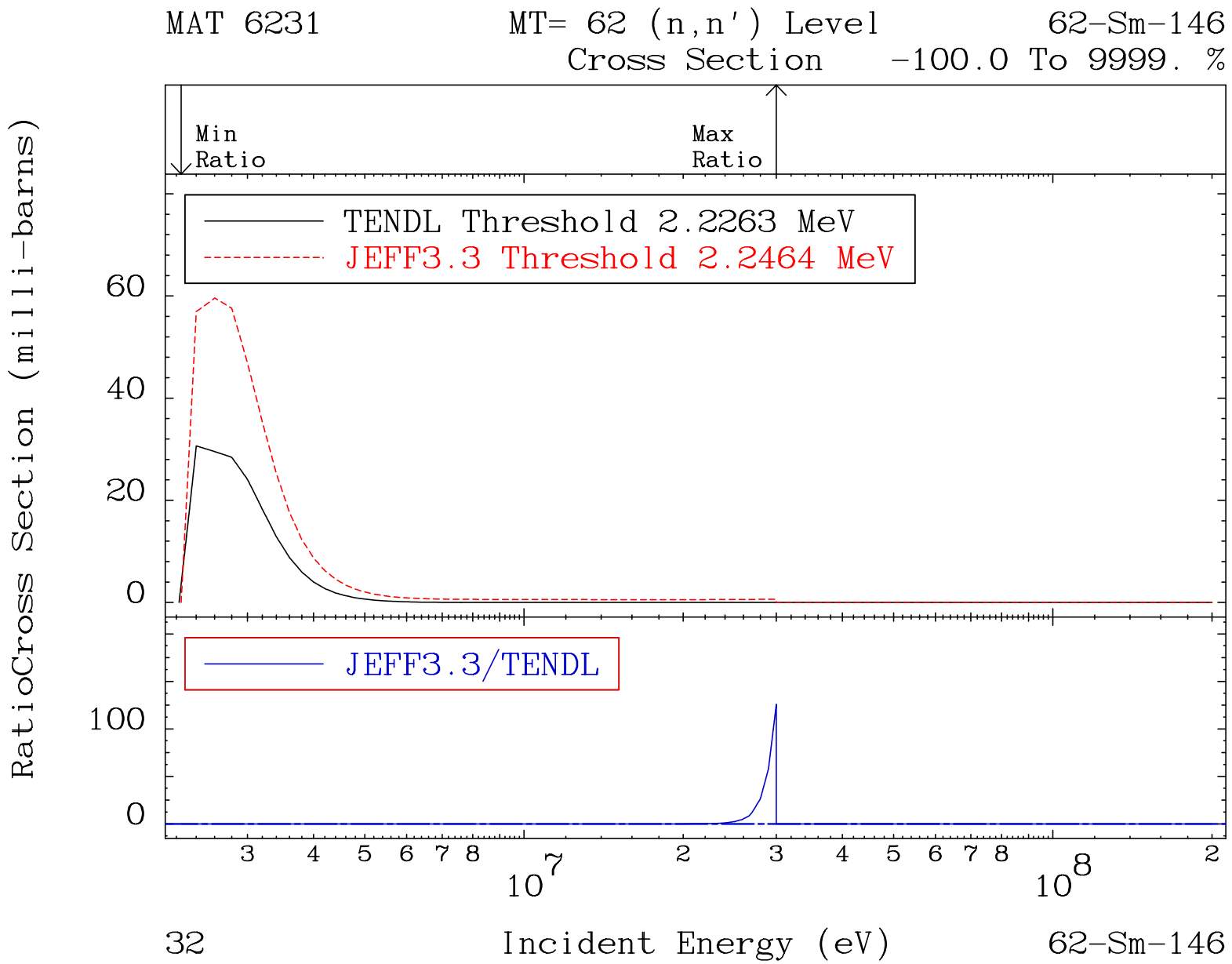

MAT 6231
MT= 57 (n,n') Level
62-Sm-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.9262 MeV
JEFF3.3 Threshold 2.0978 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
62-Sm-146

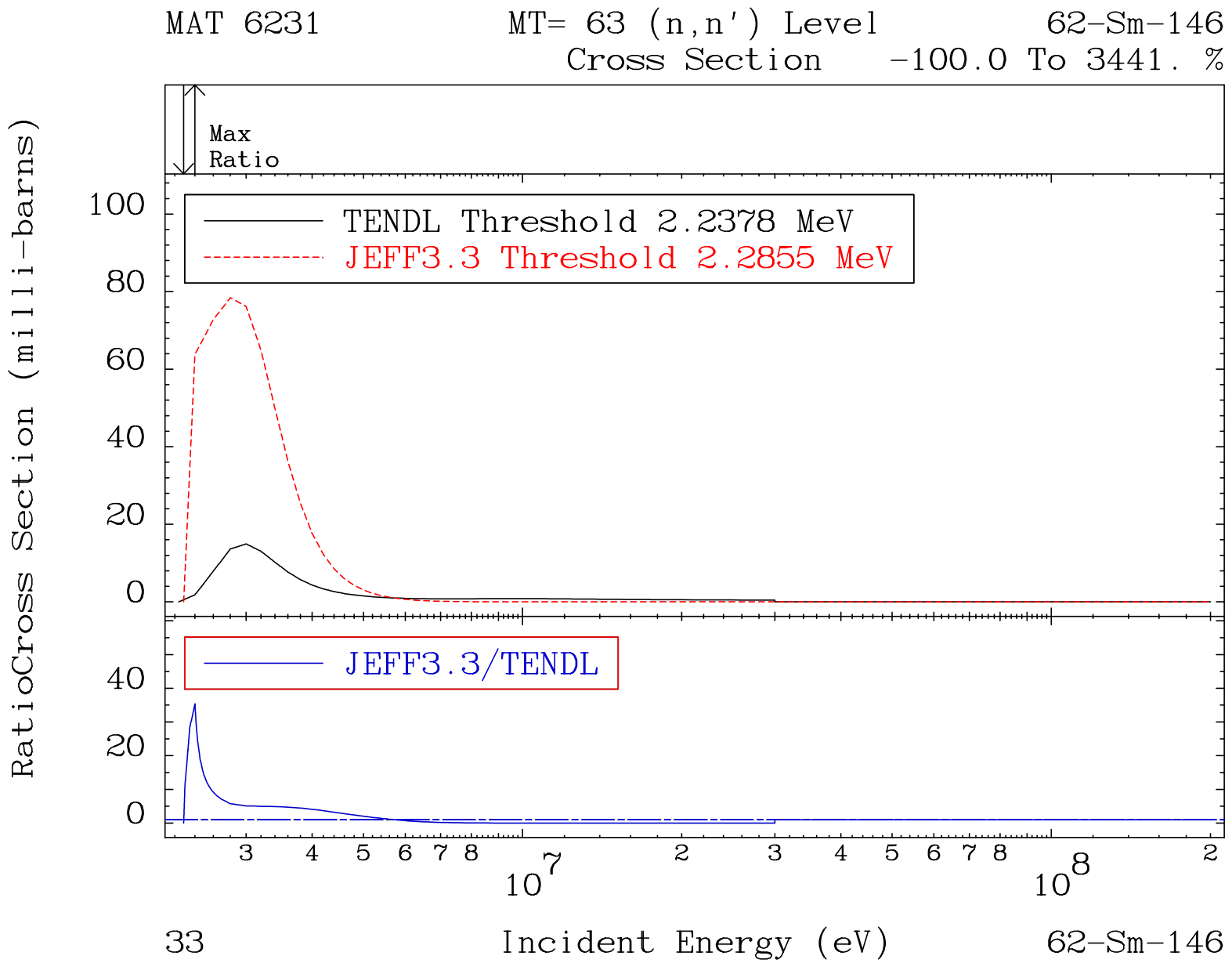

MAT 6231
MT= 58 (n,n') Level
62-Sm-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.0380 MeV
JEFF3.3 Threshold 2.1707 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
62-Sm-146

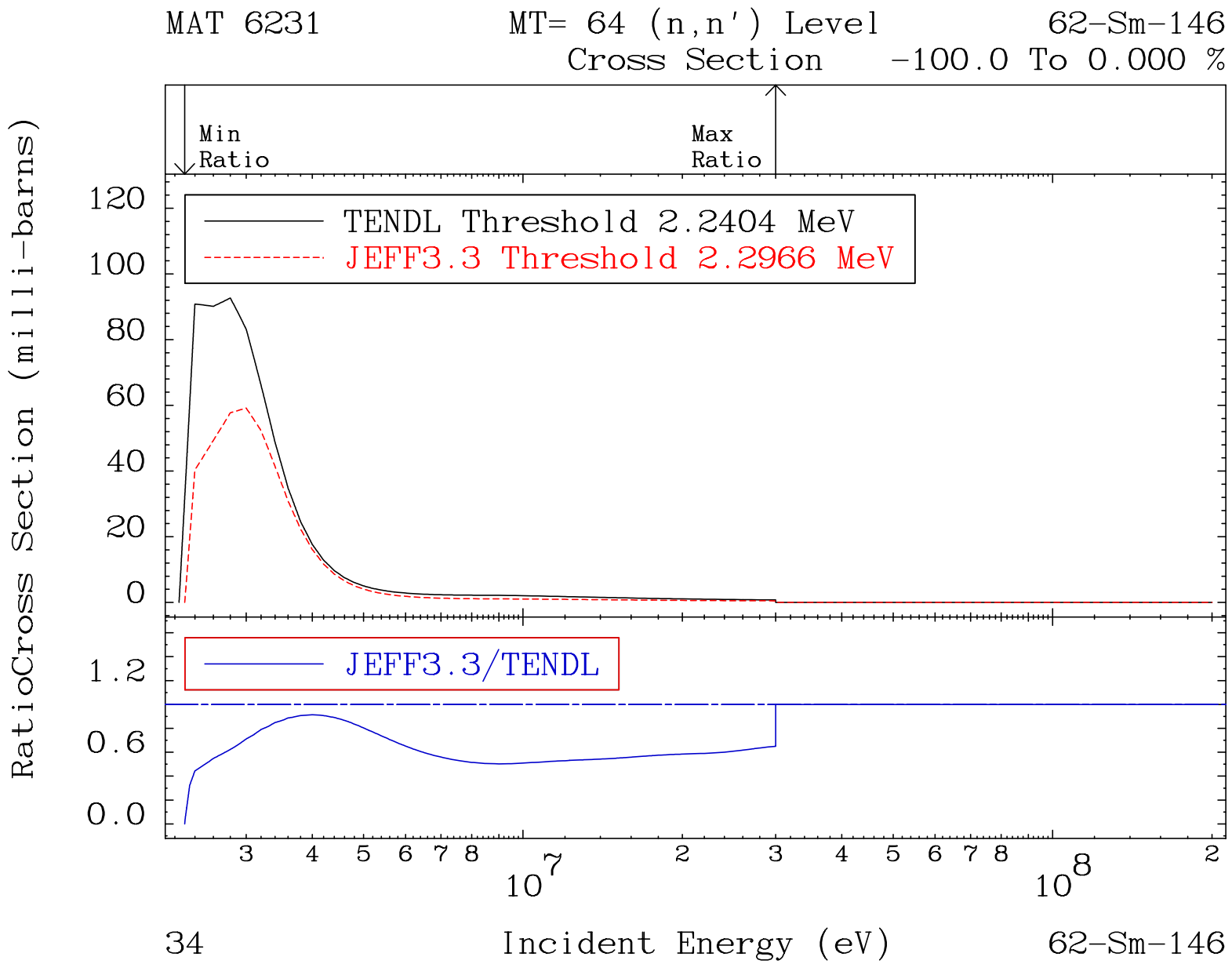

MAT 6231
MT= 59 (n,n') Level
Cross Section
62-Sm-146
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.0599 MeV
JEFF3.3 Threshold 2.2263 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
62-Sm-146

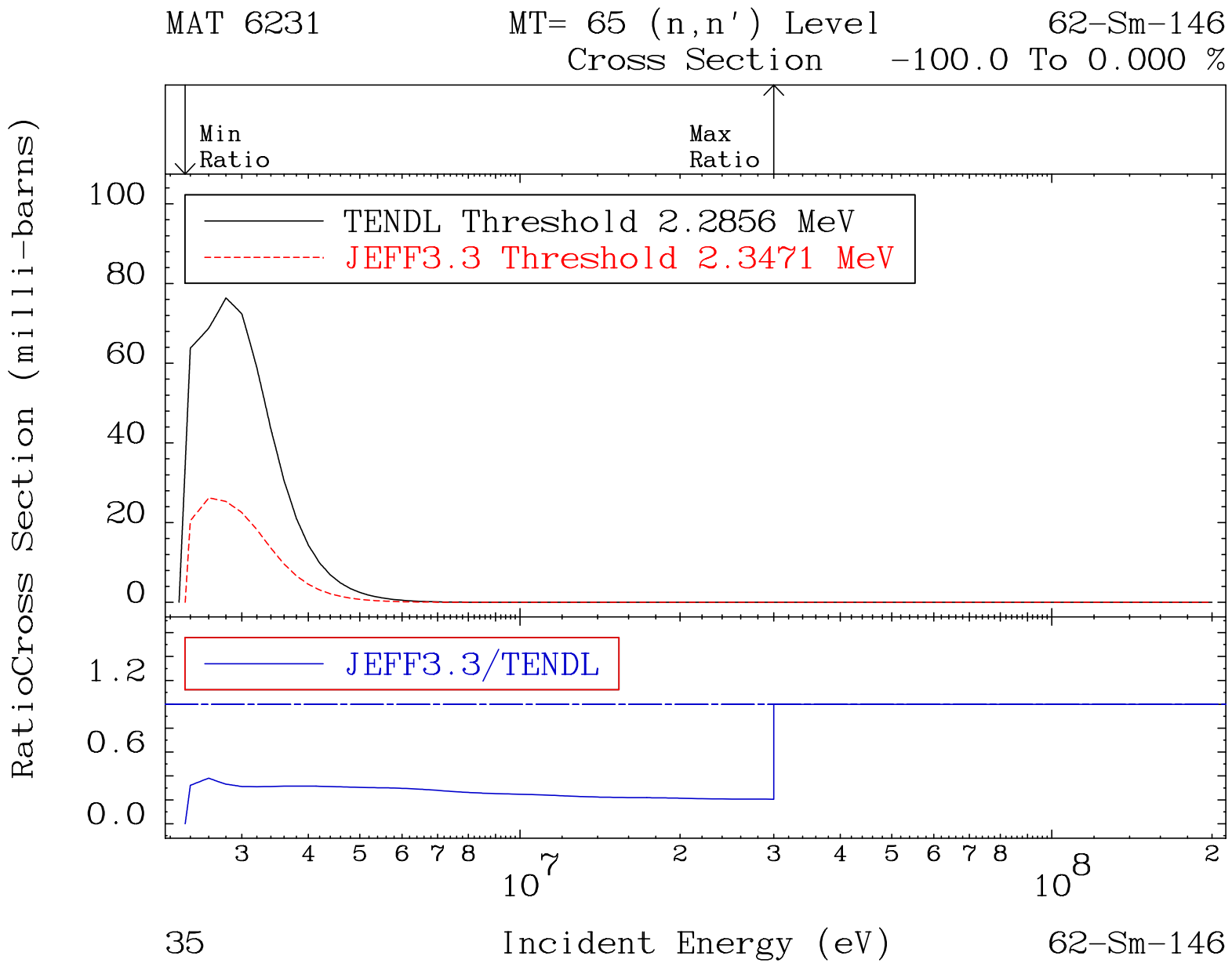

MAT 6231
MT= 60 (n,n') Level
62-Sm-146
Cross Section
-100.0 To 4.580 %
Min Ratio
Max Ratio
TENDL Threshold 2.0978 MeV
JEFF3.3 Threshold 2.2378 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
62-Sm-146

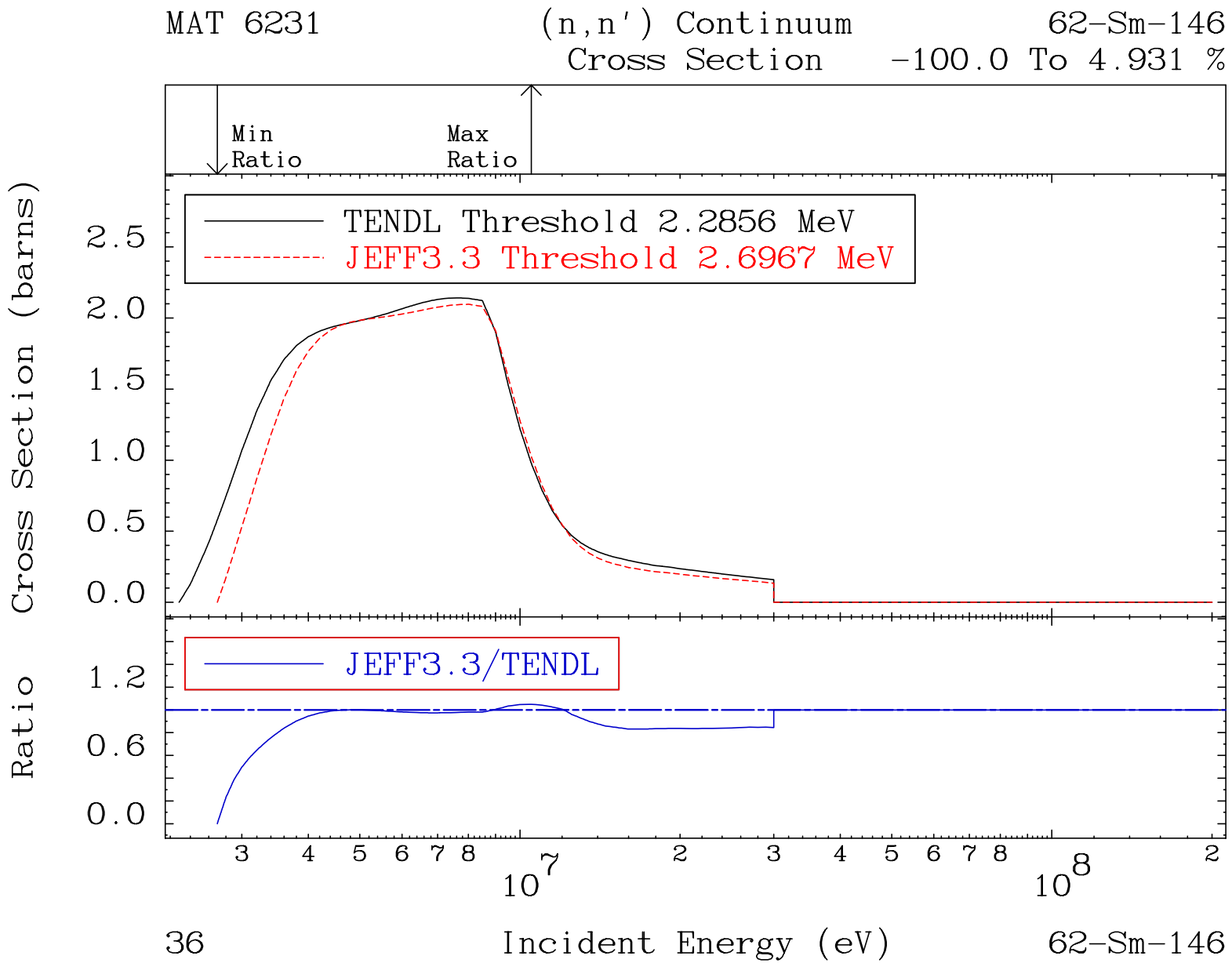

MAT 6231
MT= 61 (n,n') Level
62-Sm-146
Cross Section -100.0 To 14.12 %
Min Ratio
Max Ratio
TENDL Threshold 2.1707 MeV
JEFF3.3 Threshold 2.2403 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
62-Sm-146

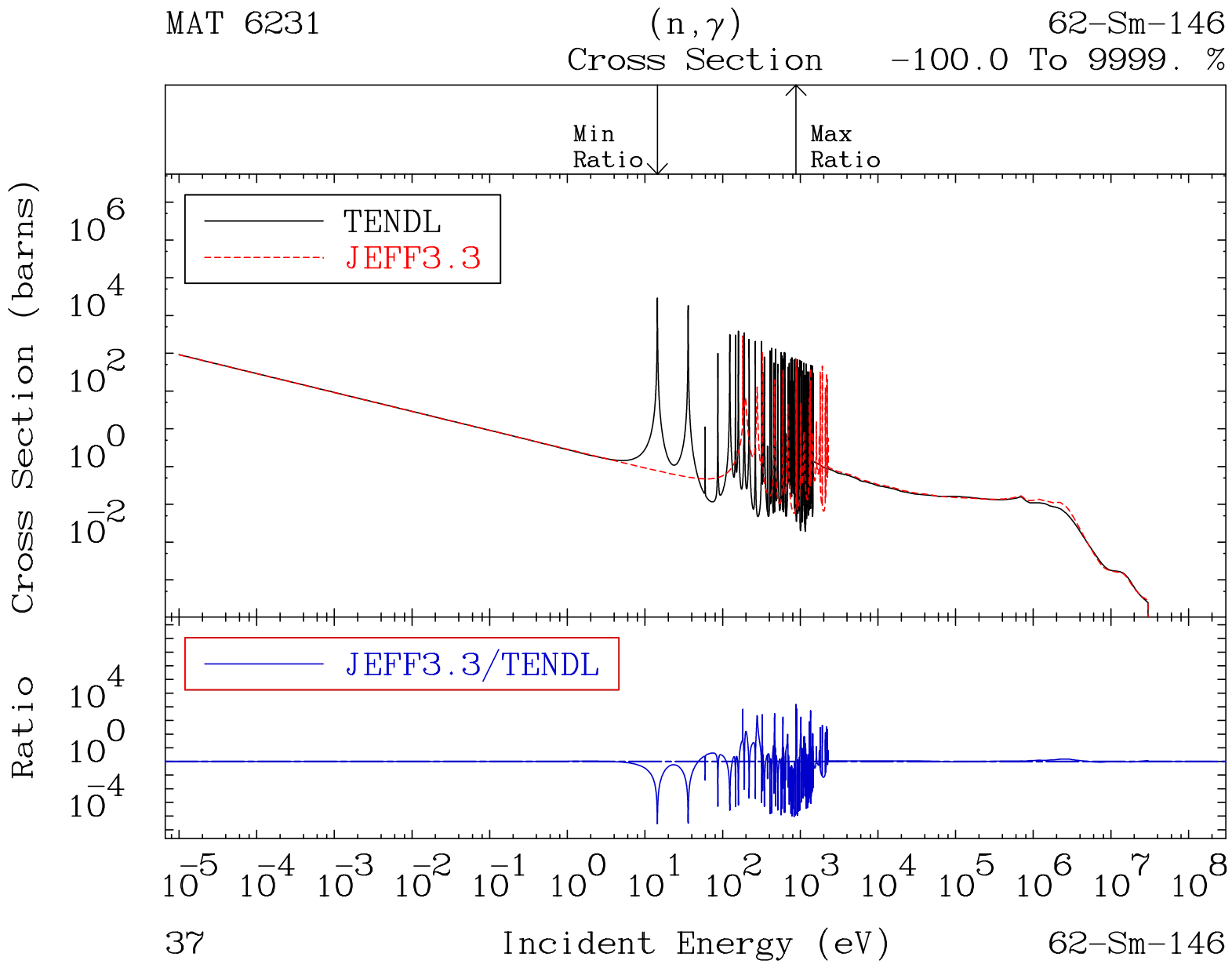

MAT 6231
MT= 62 (n,n') Level
62-Sm-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.2263 MeV
JEFF3.3 Threshold 2.2464 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
40
20
0
100
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
62-Sm-146

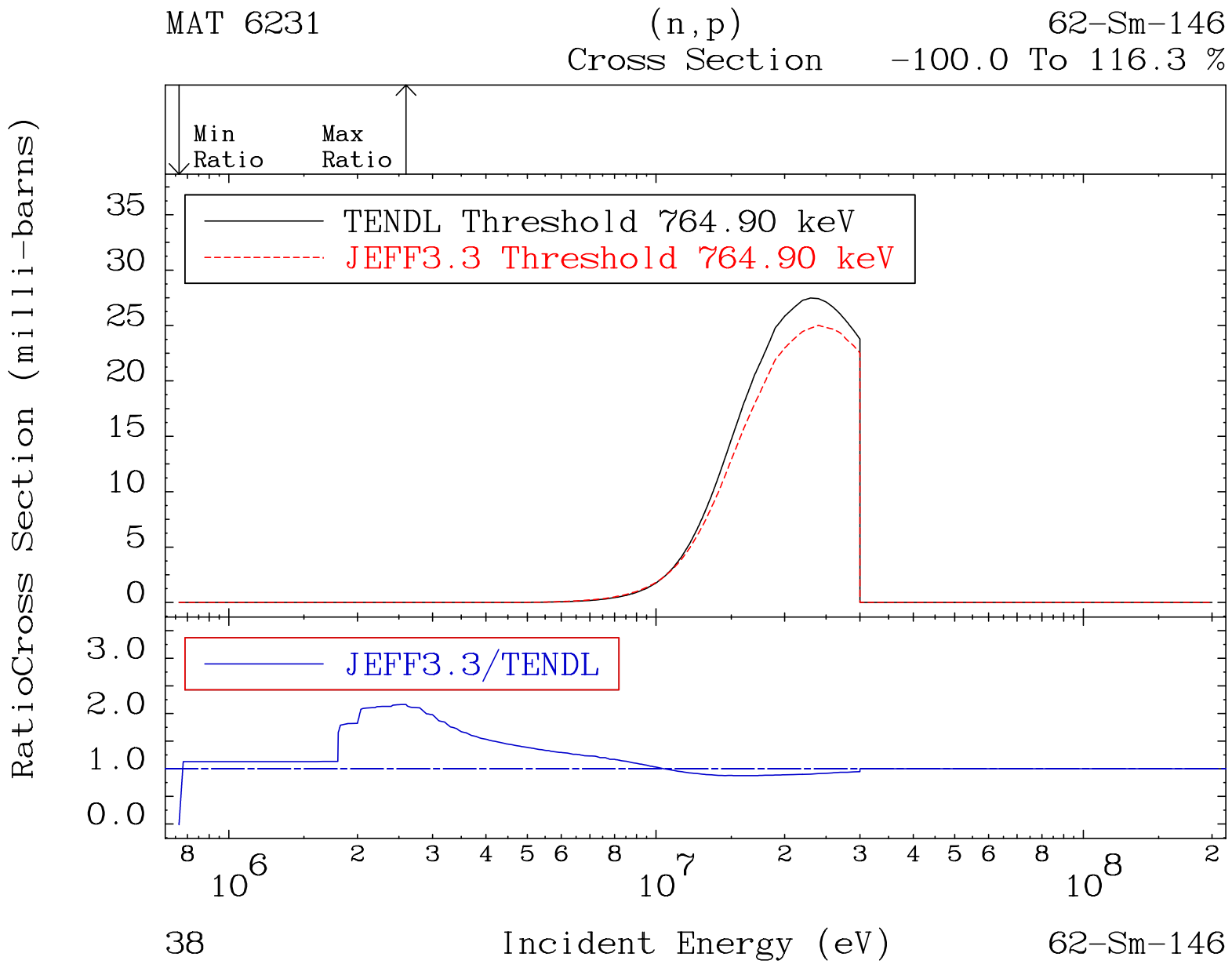

MAT 6231
MT= 63 (n,n') Level
62-Sm-146
Cross Section -100.0 To 3441. %
Max
Ratio
TENDL Threshold 2.2378 MeV
JEFF3.3 Threshold 2.2855 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
40
20
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
62-Sm-146

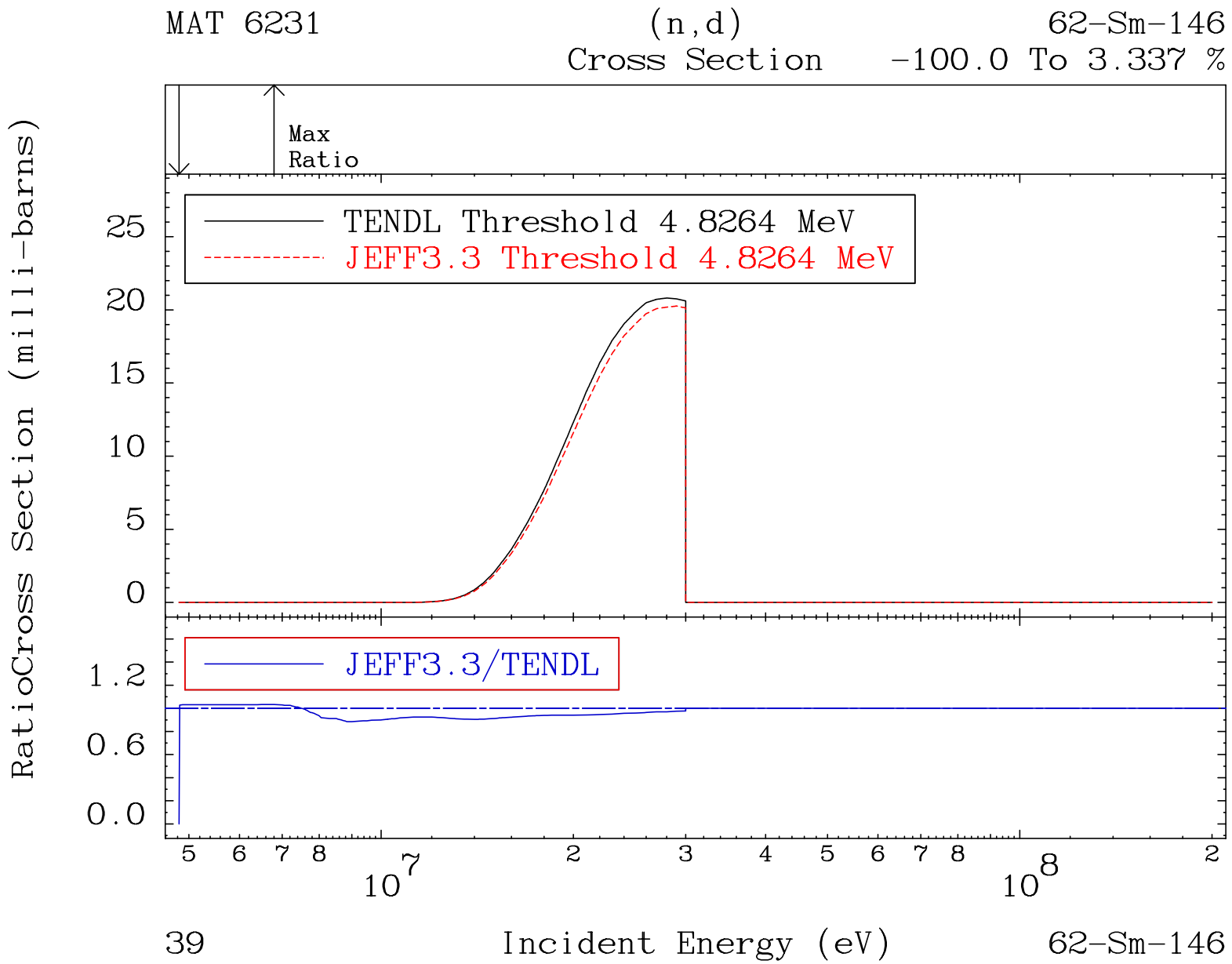

MAT 6231
MT= 64 (n,n') Level
62-Sm-146
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.2404 MeV
JEFF3.3 Threshold 2.2966 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
62-Sm-146

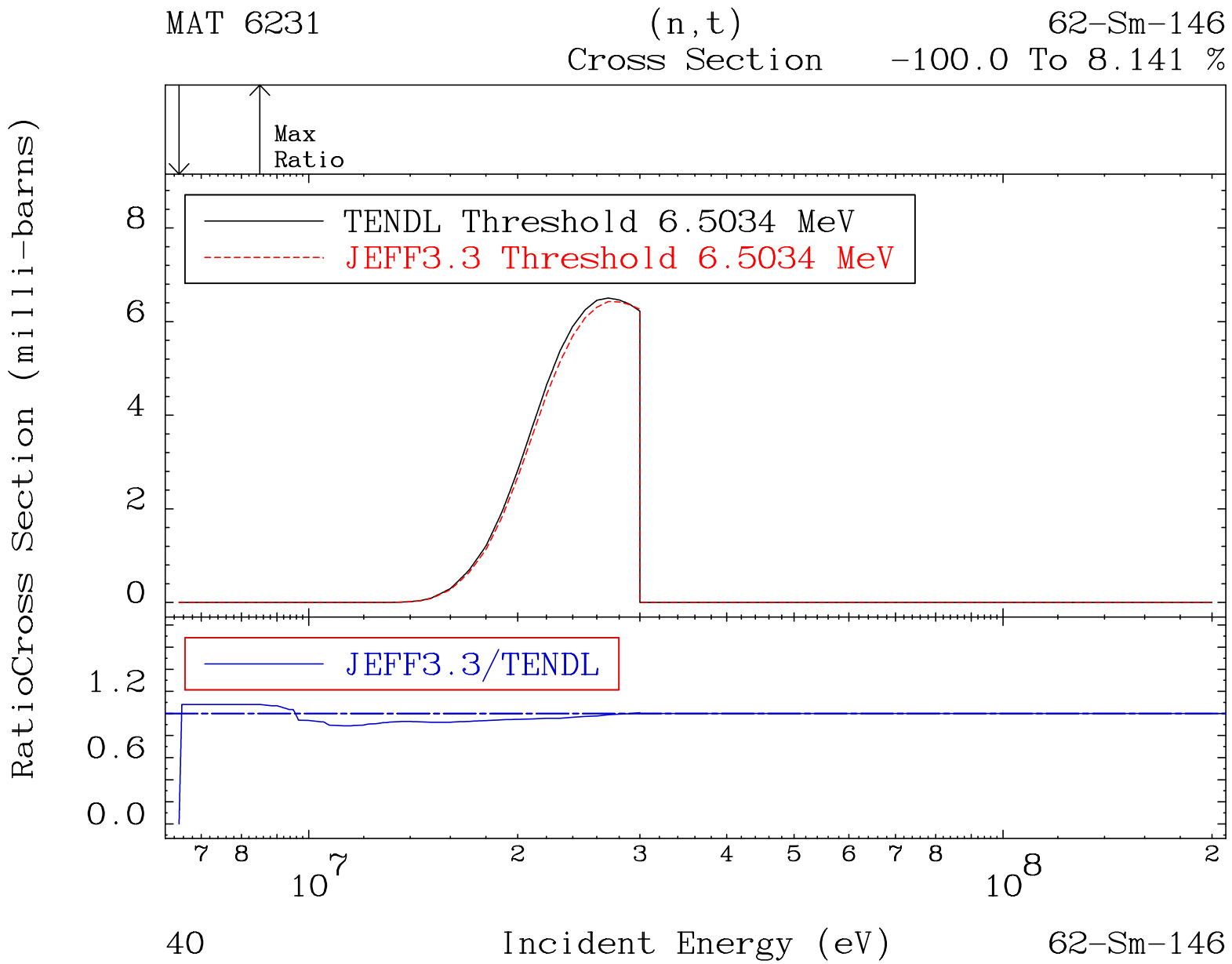

MAT 6231
MT= 65 (n,n') Level
62-Sm-146
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.2856 MeV
JEFF3.3 Threshold 2.3471 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
62-Sm-146

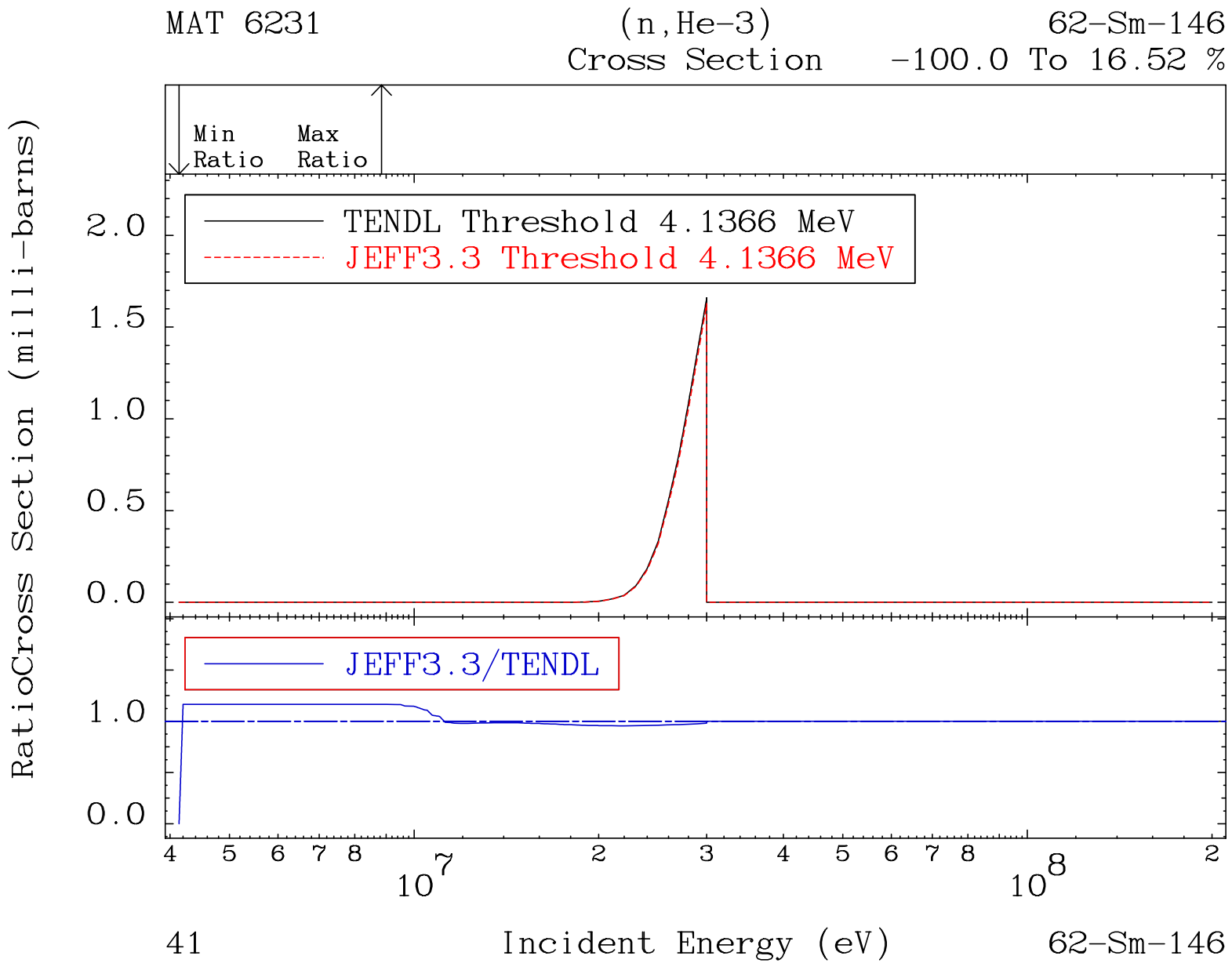

MAT 6231
(n,n') Continuum
Cross Section
62-Sm-146
-100.0 To 4.931 %
Min Ratio
Max Ratio
TENDL Threshold 2.2856 MeV
JEFF3.3 Threshold 2.6967 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
62-Sm-146

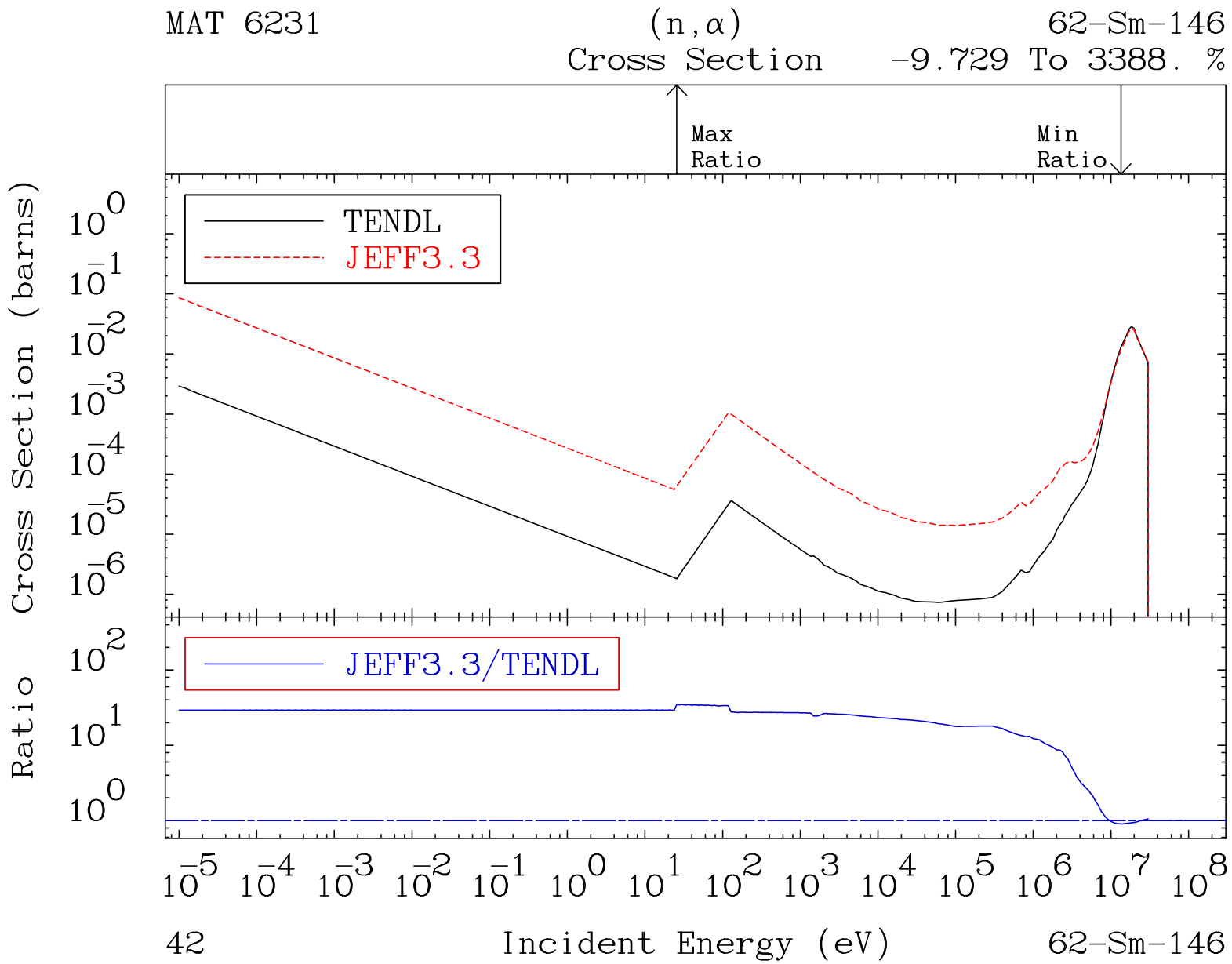

MAT 6231
(n,γ)
Cross Section
62-Sm-146
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
62-Sm-146

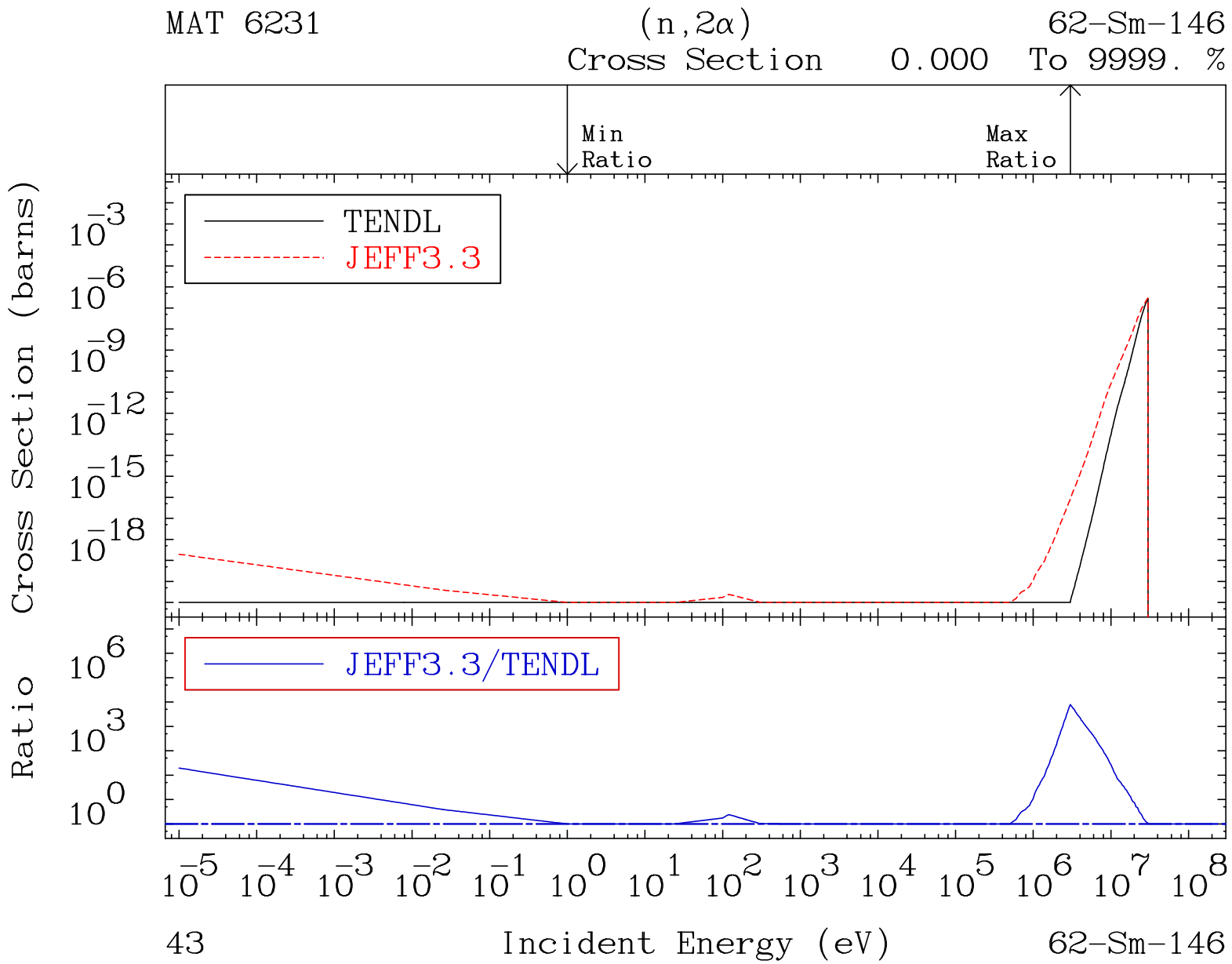

MAT 6231
(n,p)
Cross Section
62-Sm-146
-100.0 To 116.3 %
Min Ratio
Max Ratio
TENDL Threshold 764.90 keV
JEFF3.3 Threshold 764.90 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
3.0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
38
Incident Energy (eV)
62-Sm-146

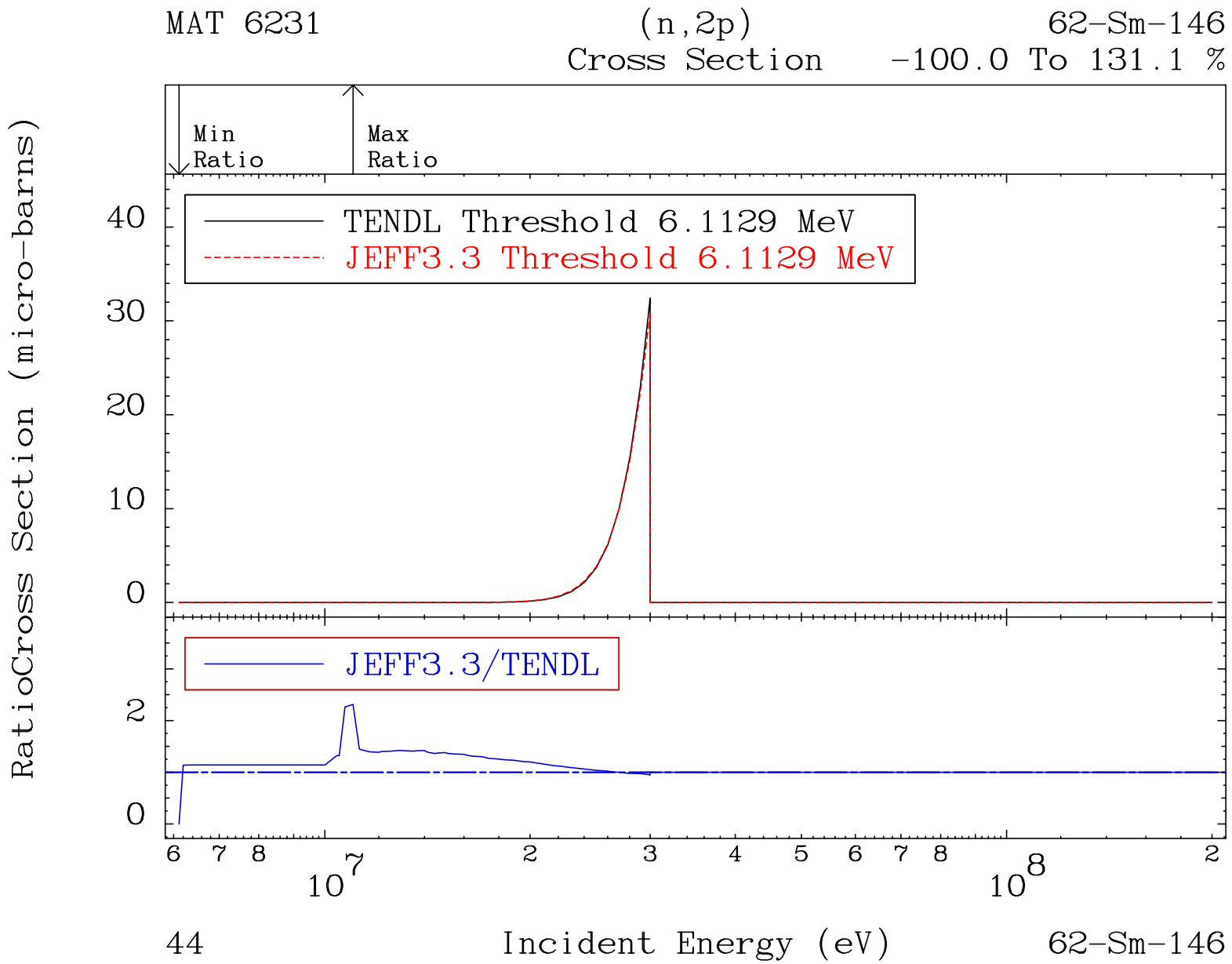

MAT 6231
(n,d)
Cross Section
62-Sm-146
-100.0 To 3.337 %
Max
Ratio
TENDL Threshold 4.8264 MeV
JEFF3.3 Threshold 4.8264 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.6
0.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
62-Sm-146

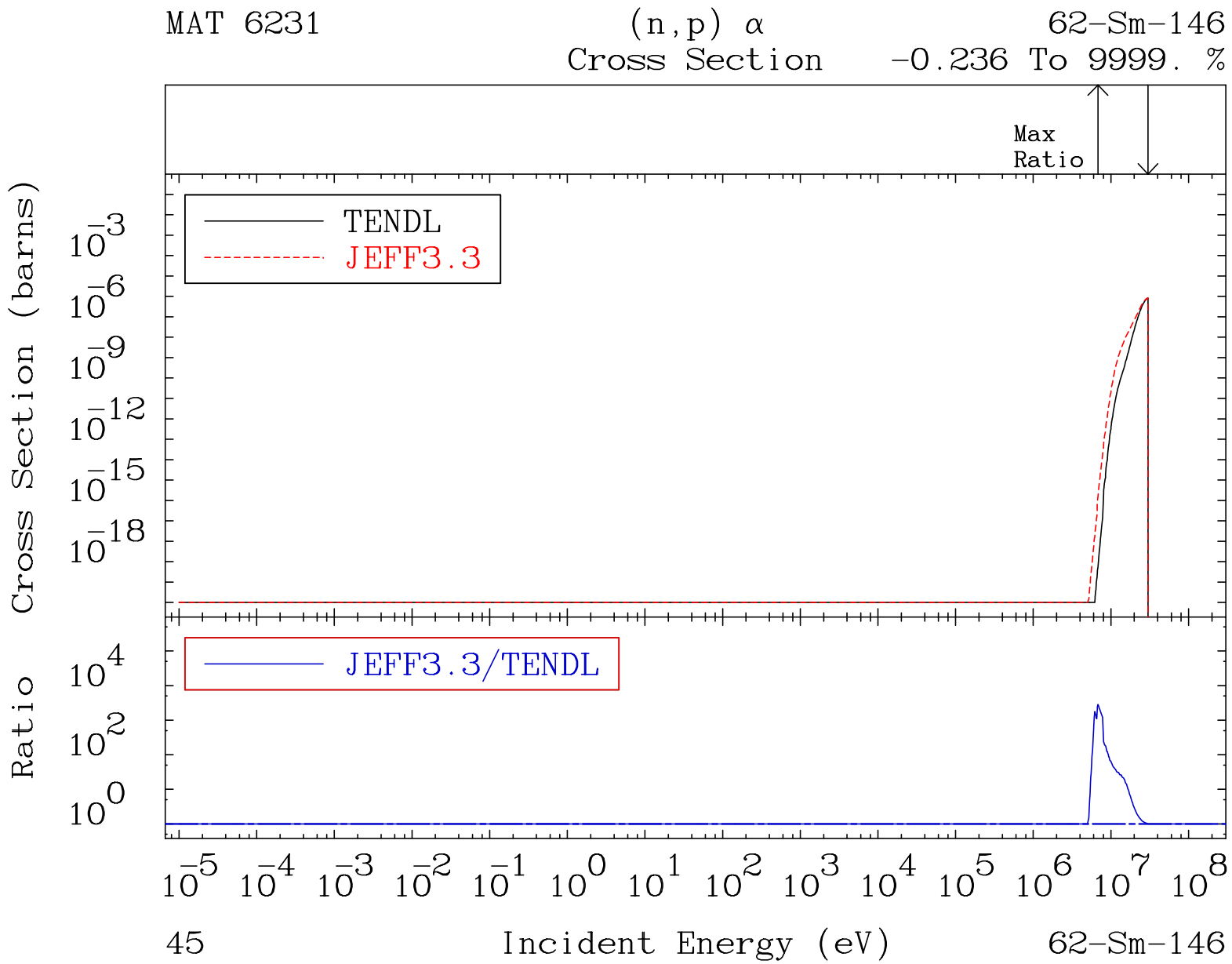

MAT 6231
(n,t)
Cross Section
62-Sm-146
-100.0 To 8.141 %
Max
Ratio
TENDL Threshold 6.5034 MeV
JEFF3.3 Threshold 6.5034 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
40
62-Sm-146

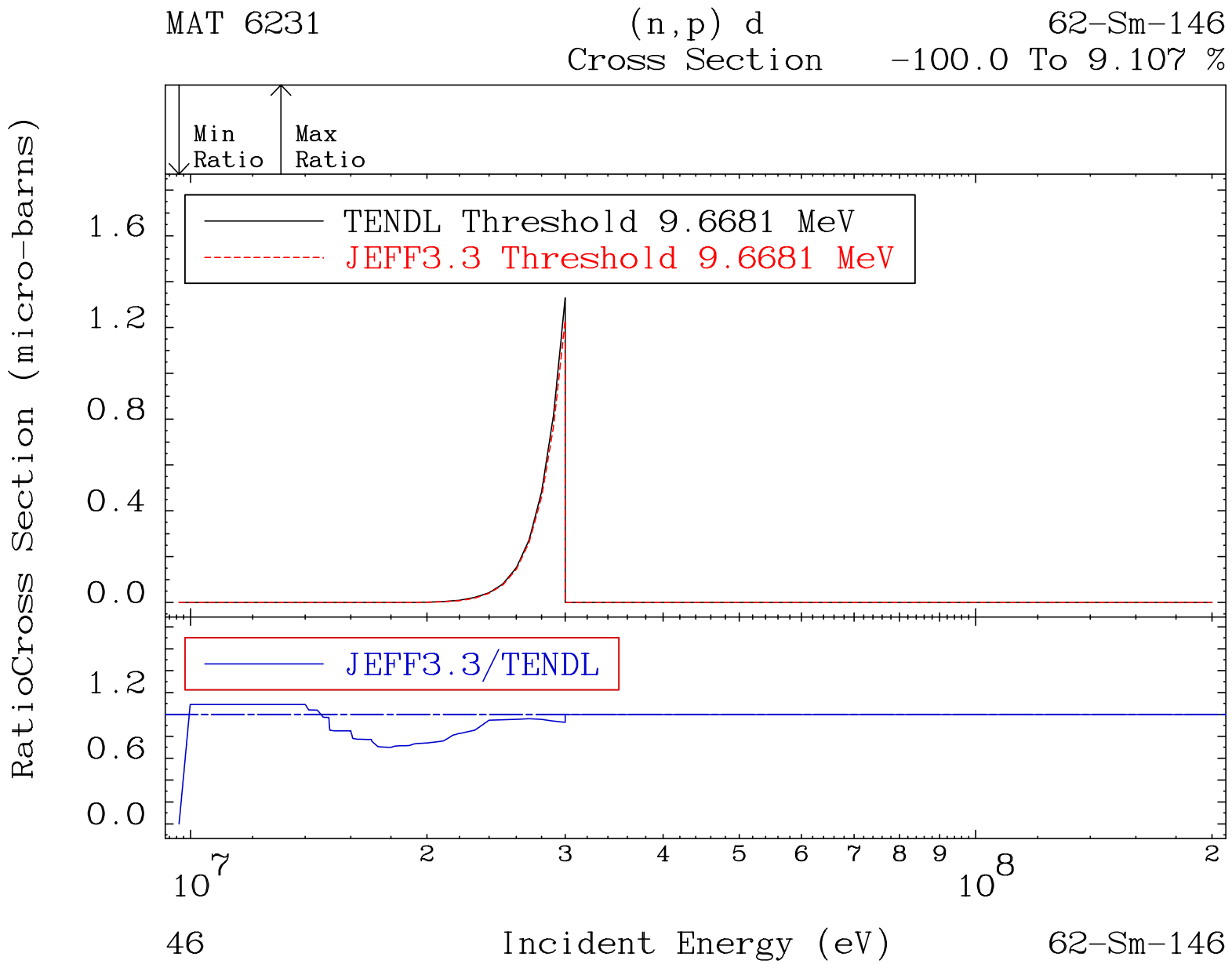

MAT 6231
(n,He-3)
Cross Section
62-Sm-146
-100.0 To 16.52 %
Min Ratio
Max Ratio
TENDL Threshold 4.1366 MeV
JEFF3.3 Threshold 4.1366 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
41
Incident Energy (eV)
62-Sm-146

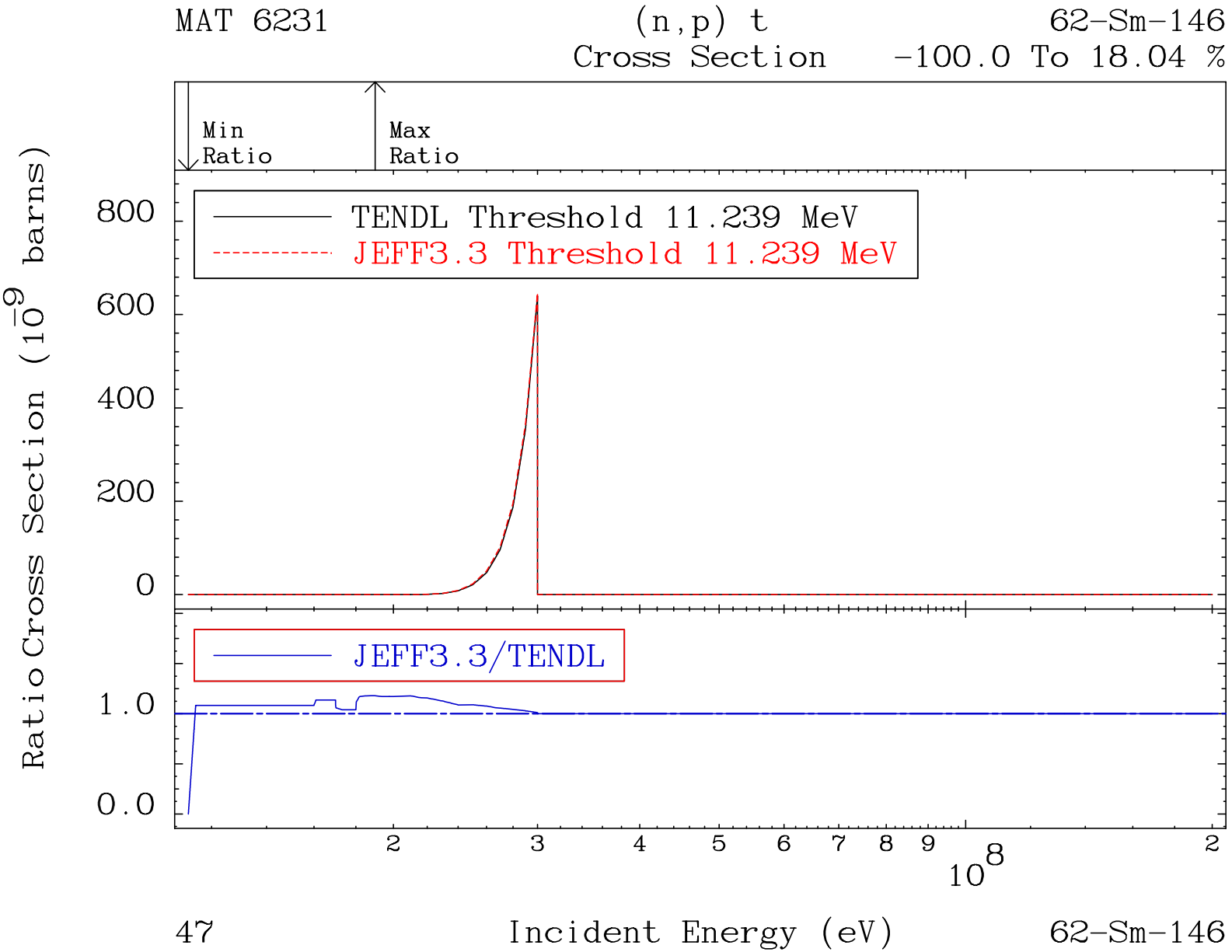

MAT 6231
(n,α)
Cross Section
62-Sm-146
-9.729 To 3388. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
42
62-Sm-146

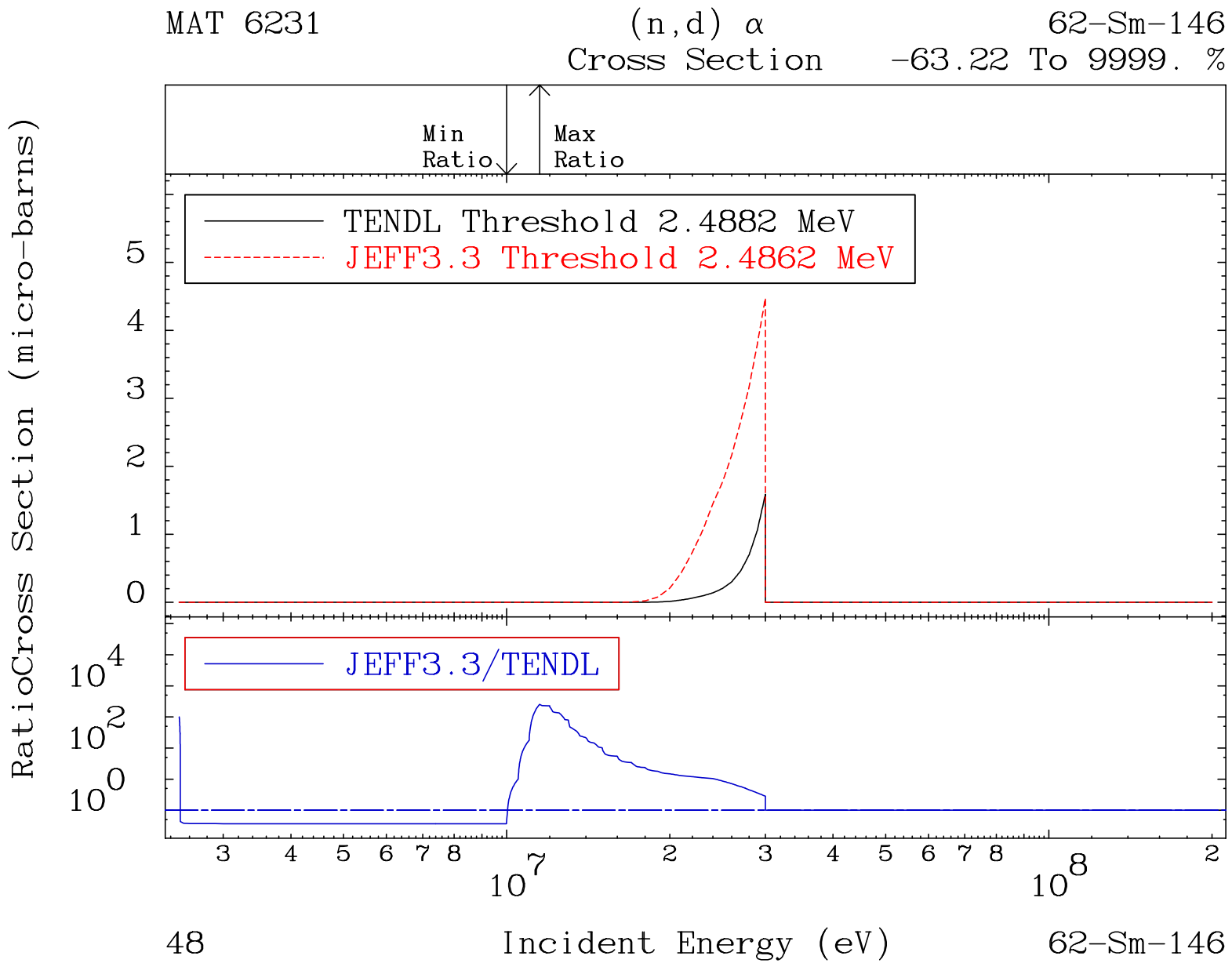

MAT 6231
(n,2α)
62-Sm-146
Cross Section 0.000 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
43
62-Sm-146

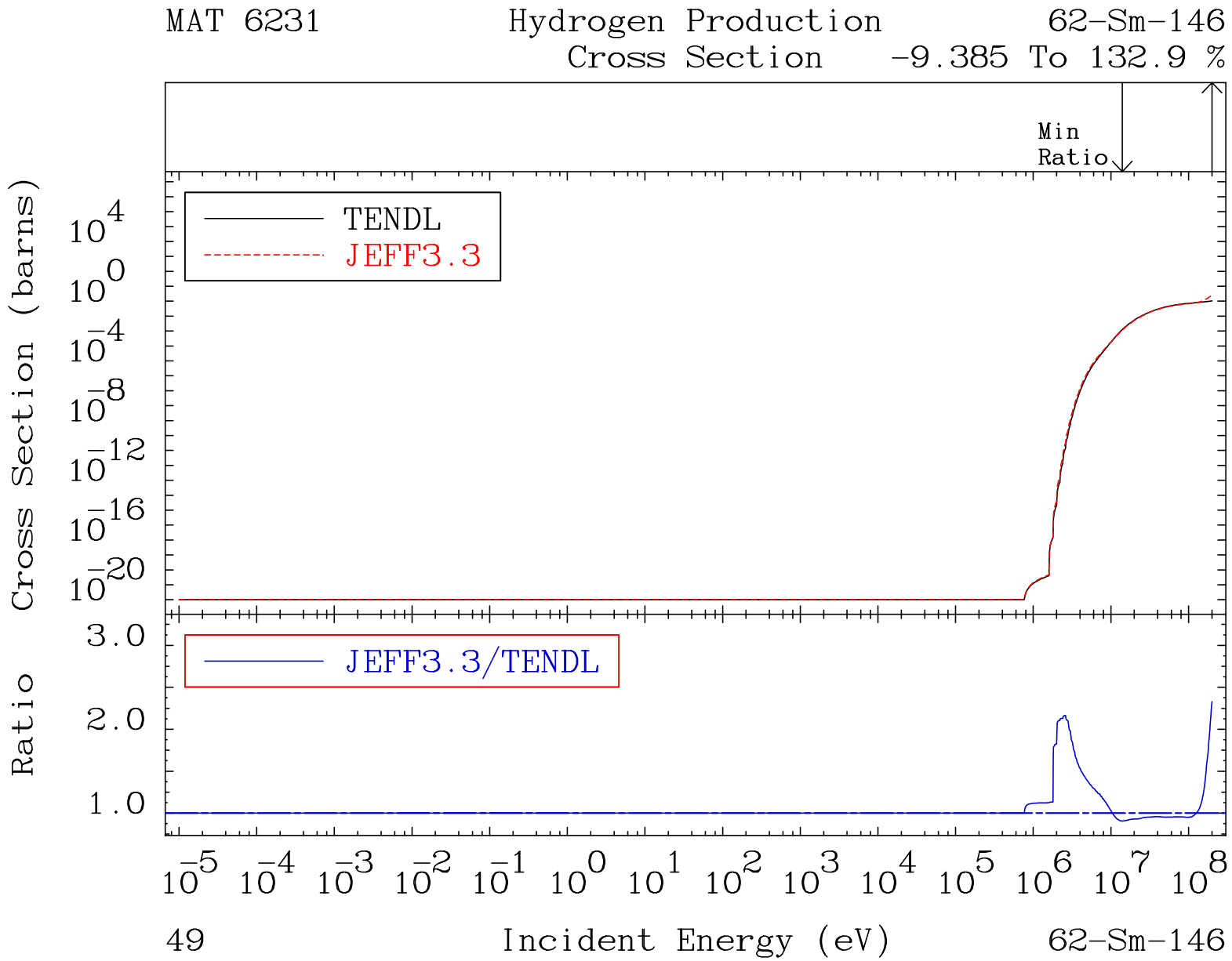

MAT 6231
(n,2p)
62-Sm-146
Cross Section
-100.0 To 131.1 %
Min Ratio
Max Ratio
TENDL Threshold 6.1129 MeV
JEFF3.3 Threshold 6.1129 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
40
30
20
10
0
2
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
62-Sm-146

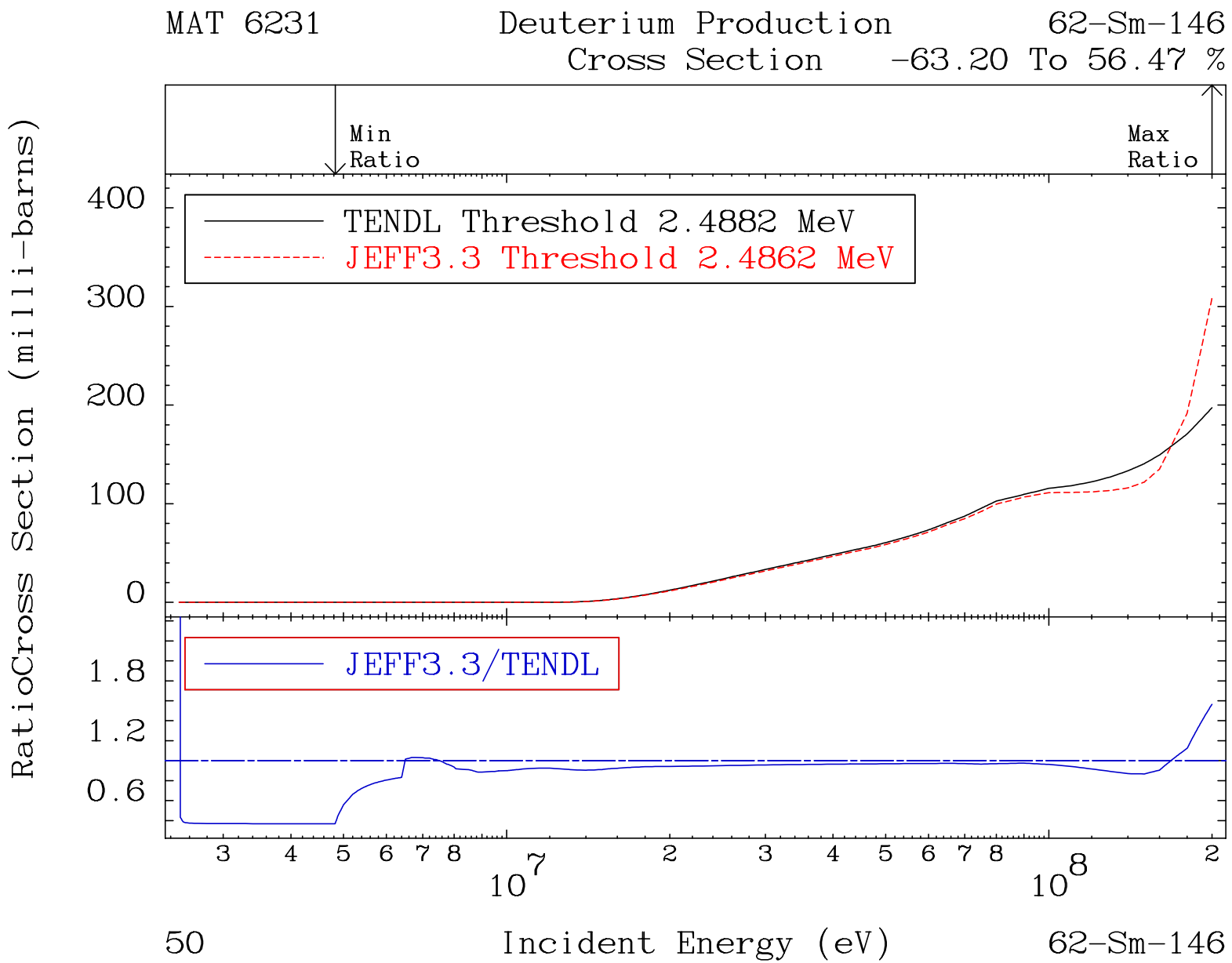

MAT 6231
(n,p) α
Cross Section
62-Sm-146
-0.236 To 9999. %
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
62-Sm-146

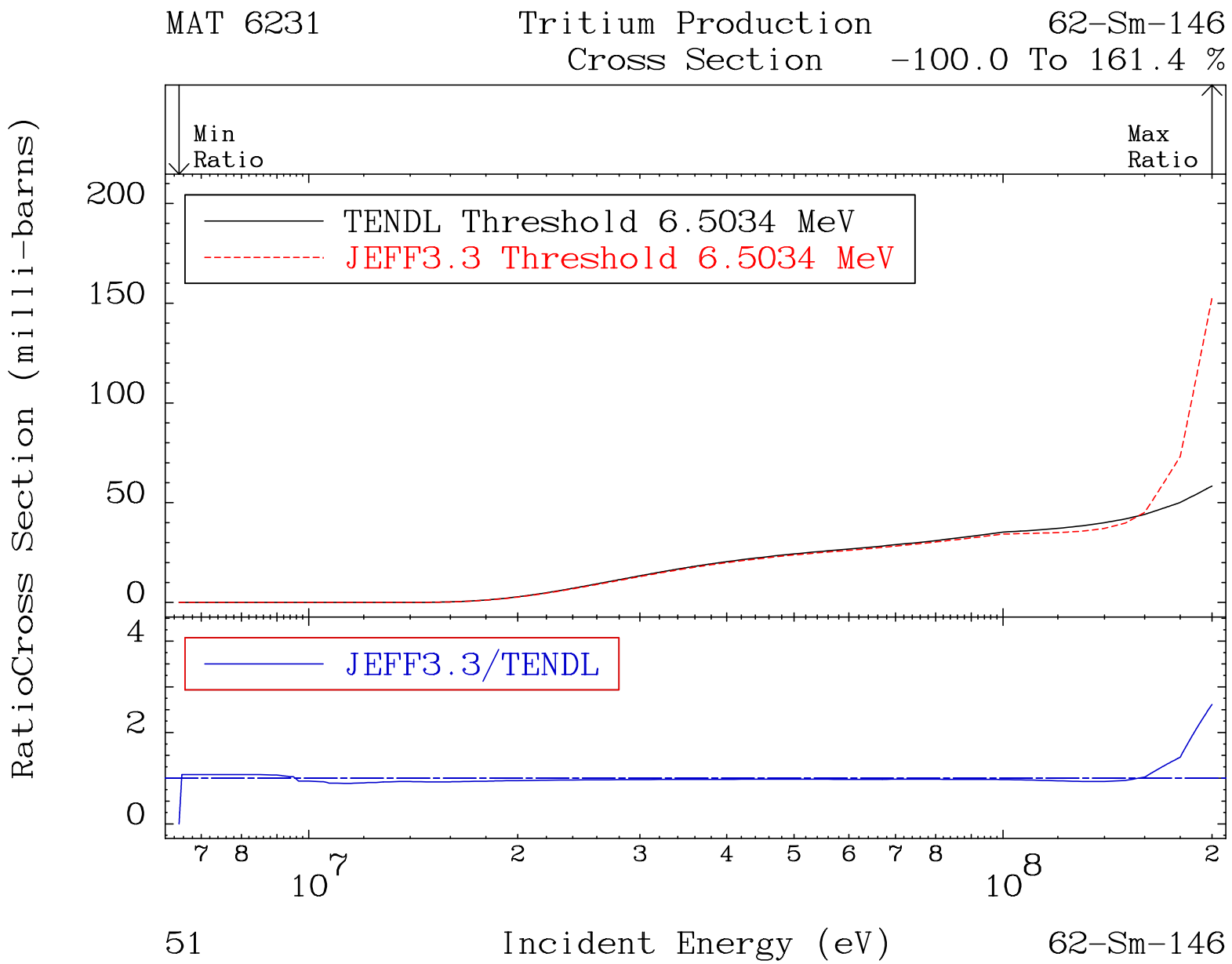

MAT 6231
(n,p) d
Cross Section
62-Sm-146
-100.0 To 9.107 %
Min Ratio
Max Ratio
TENDL Threshold 9.6681 MeV
JEFF3.3 Threshold 9.6681 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.6
1.2
0.8
0.4
0.0
1.2
0.6
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
62-Sm-146

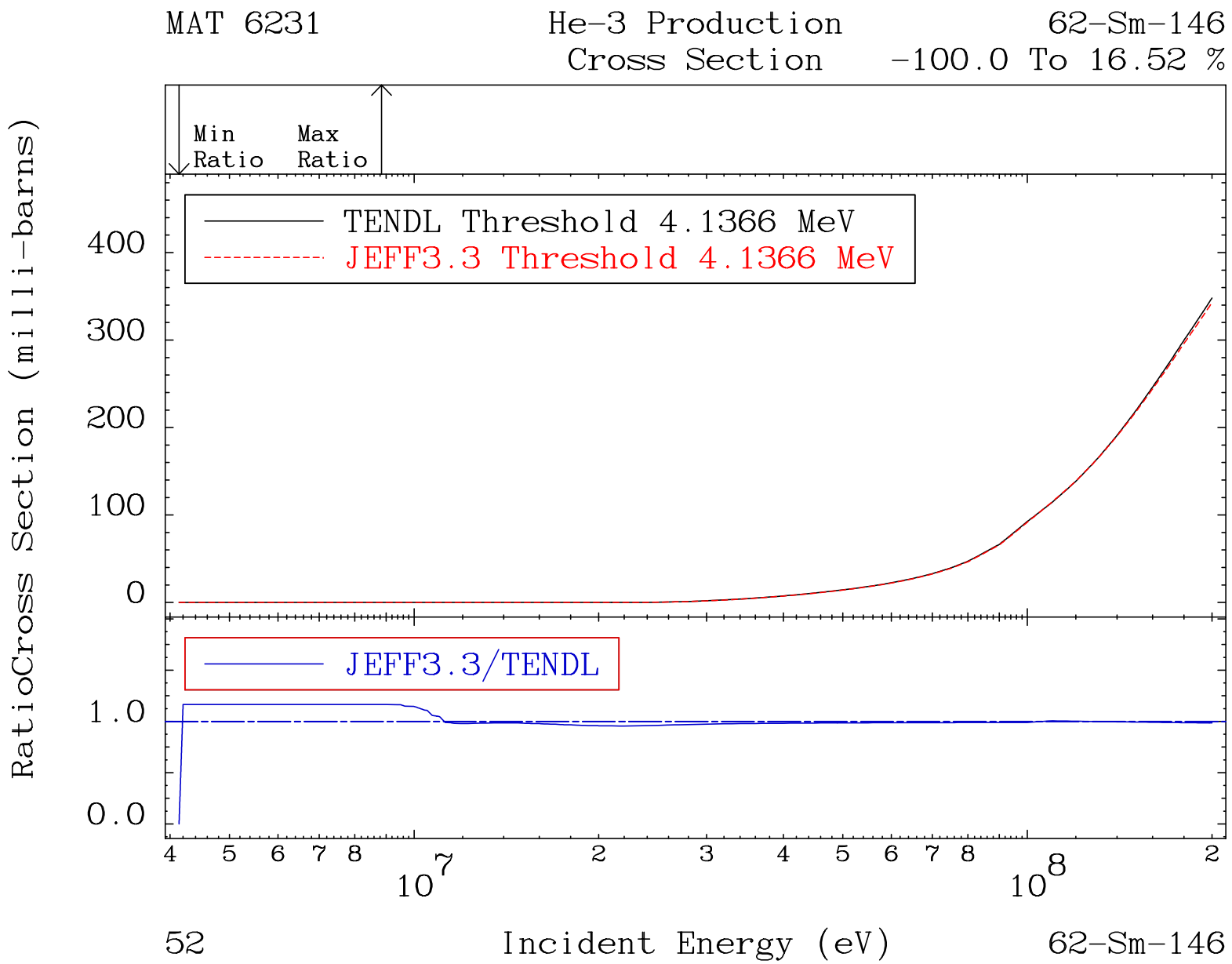

MAT 6231
(n,p) t
Cross Section
62-Sm-146
-100.0 To 18.04 %
Min Ratio
Max Ratio
TENDL Threshold 11.239 MeV
JEFF3.3 Threshold 11.239 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
800
600
400
200
0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
47
Incident Energy (eV)
62-Sm-146

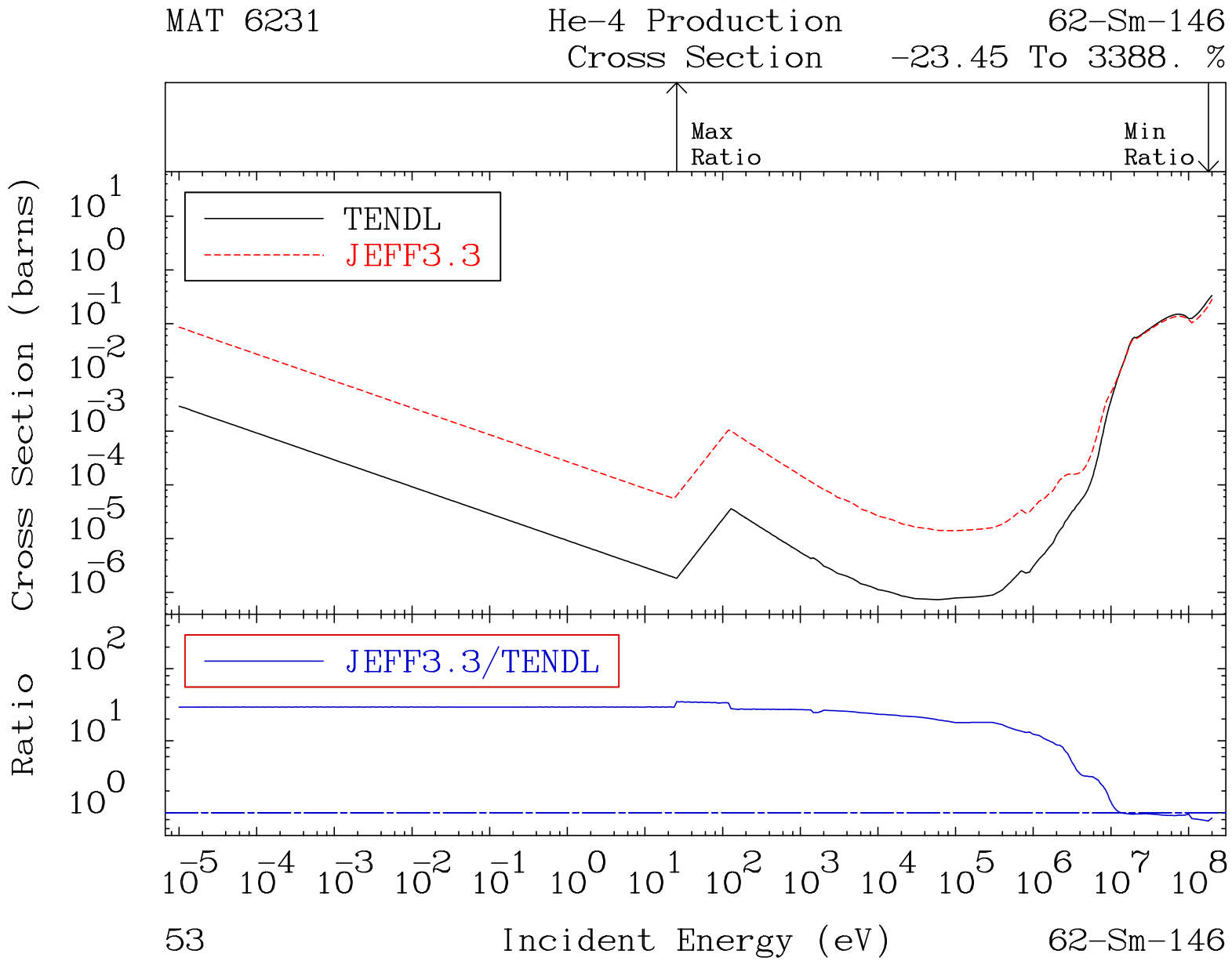

MAT 6231
(n,d) α
Cross Section
62-Sm-146
-63.22 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.4882 MeV
JEFF3.3 Threshold 2.4862 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
48
62-Sm-146

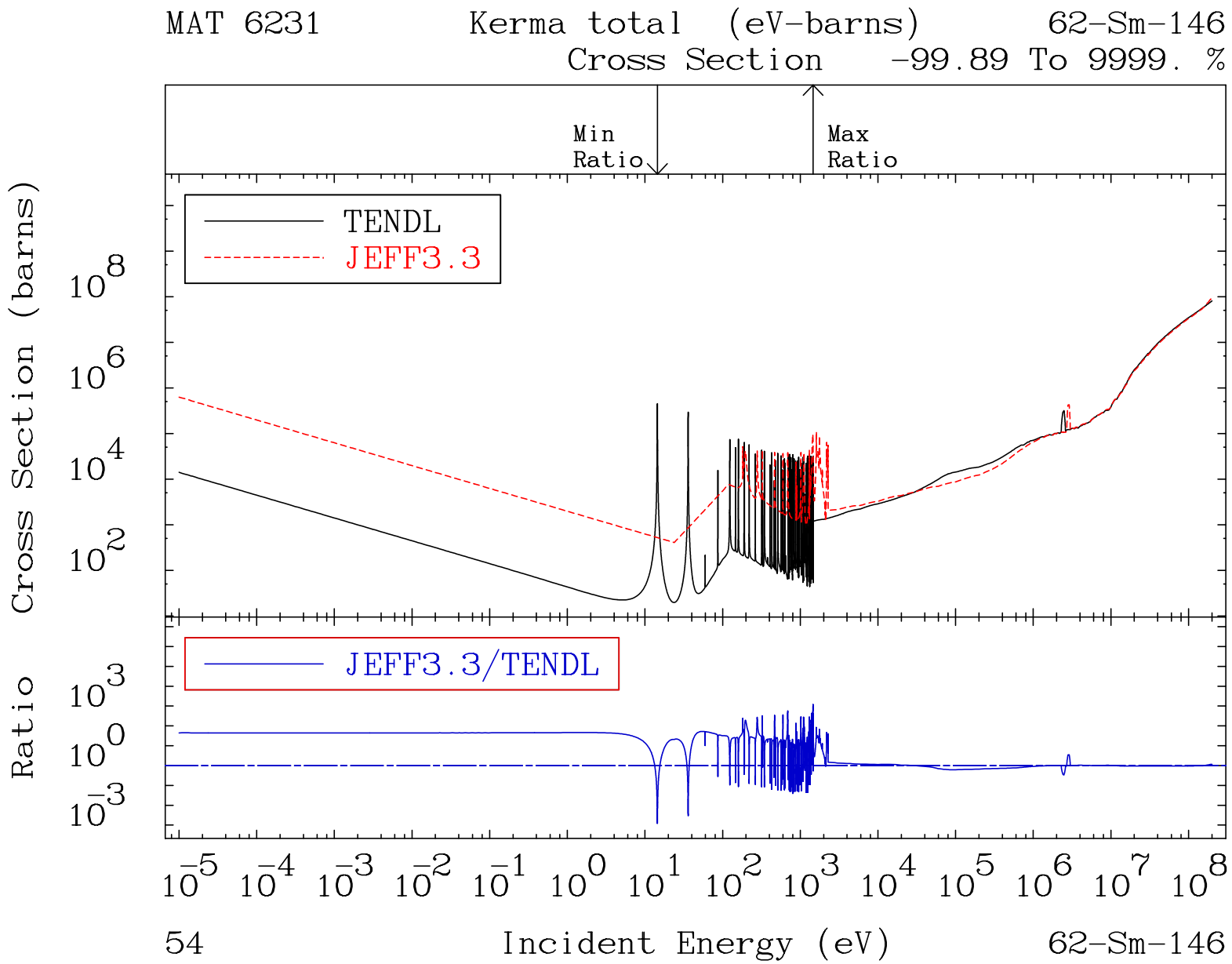

MAT 6231
Hydrogen Production
62-Sm-146
Cross Section
-9.385 To 132.9 %
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
62-Sm-146

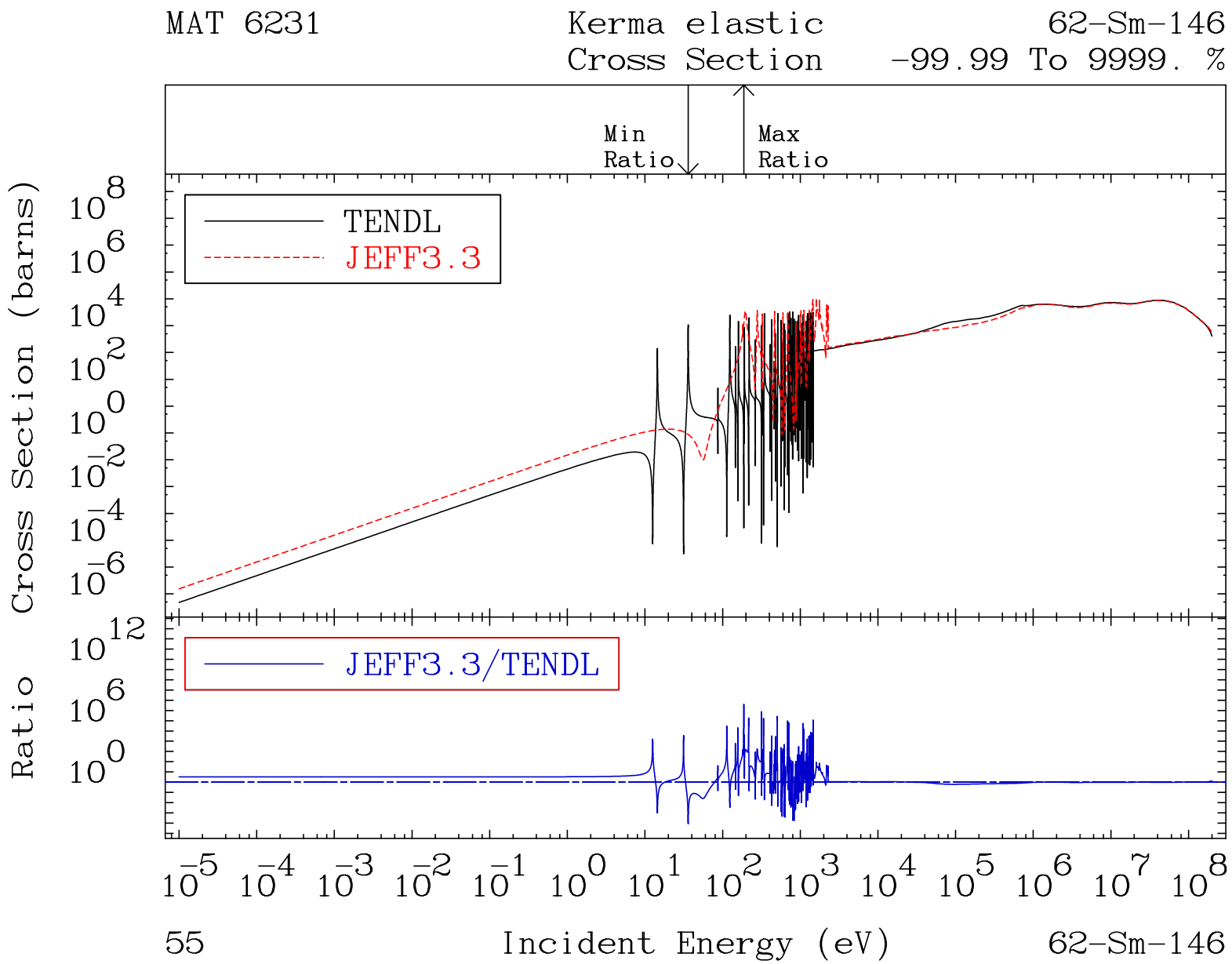

MAT 6231
Deuterium Production
62-Sm-146
Cross Section
-63.20 To 56.47 %
Min Ratio
Max Ratio
TENDL Threshold 2.4882 MeV
JEFF3.3 Threshold 2.4862 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.8
1.2
0.6
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
50
Incident Energy (eV)
62-Sm-146

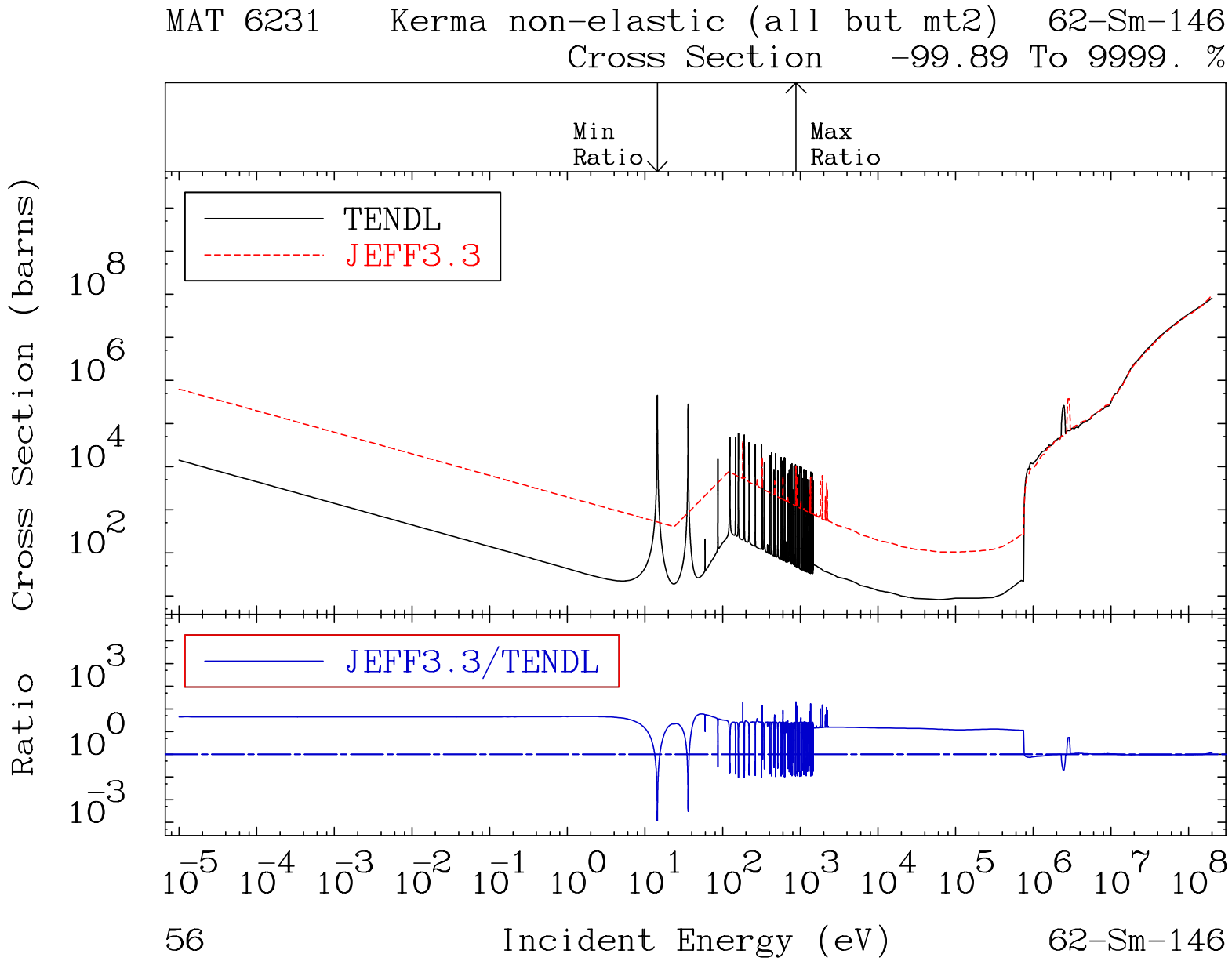

MAT 6231
Tritium Production
62-Sm-146
Cross Section
-100.0 To 161.4 %
Min
Ratio
Max
Ratio
TENDL Threshold 6.5034 MeV
JEFF3.3 Threshold 6.5034 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
2
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
51
Incident Energy (eV)
62-Sm-146

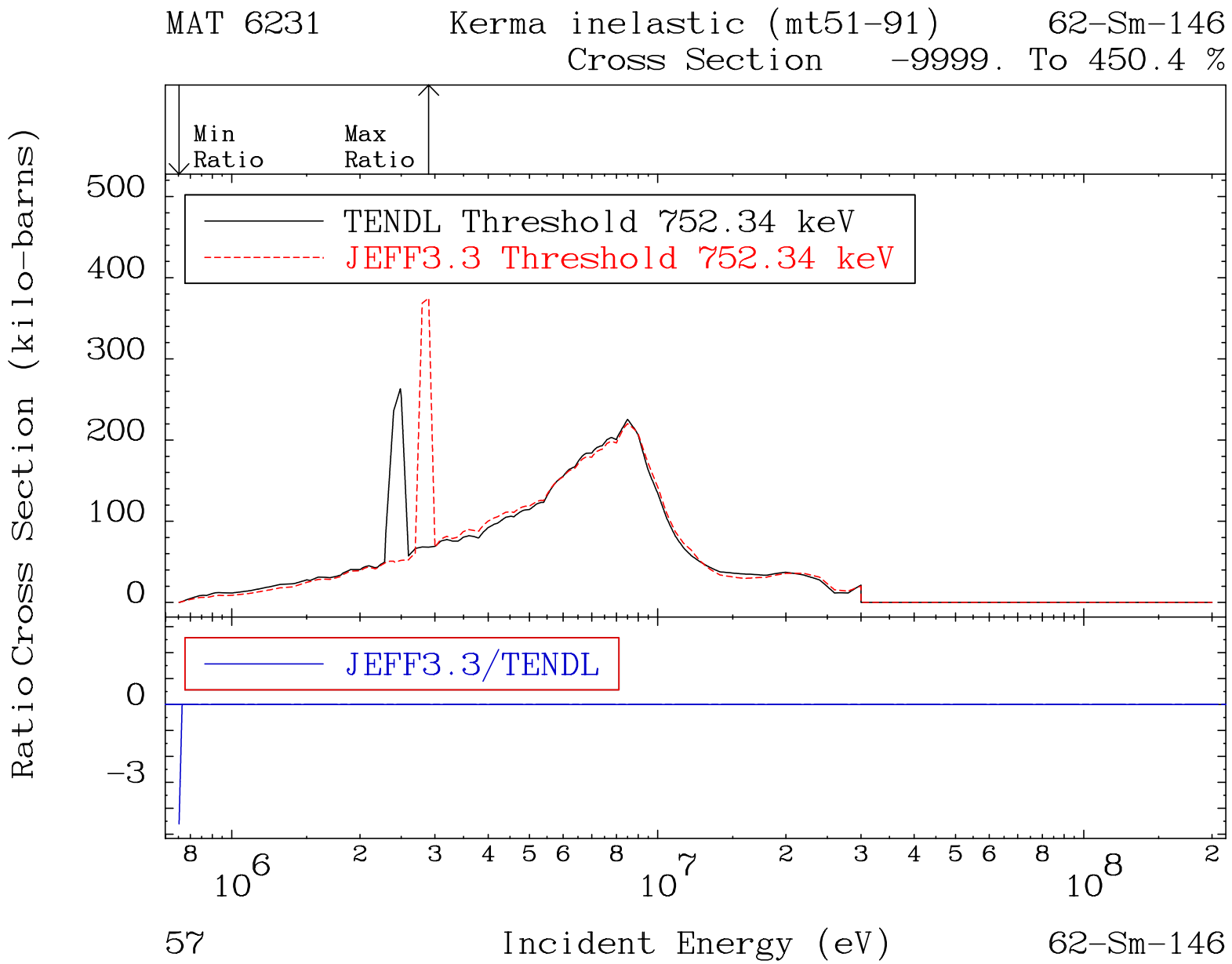

MAT 6231
He-3 Production
Cross Section
62-Sm-146
-100.0 To 16.52 %
Min Ratio
Max Ratio
TENDL Threshold 4.1366 MeV
JEFF3.3 Threshold 4.1366 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.0
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
52
Incident Energy (eV)
62-Sm-146

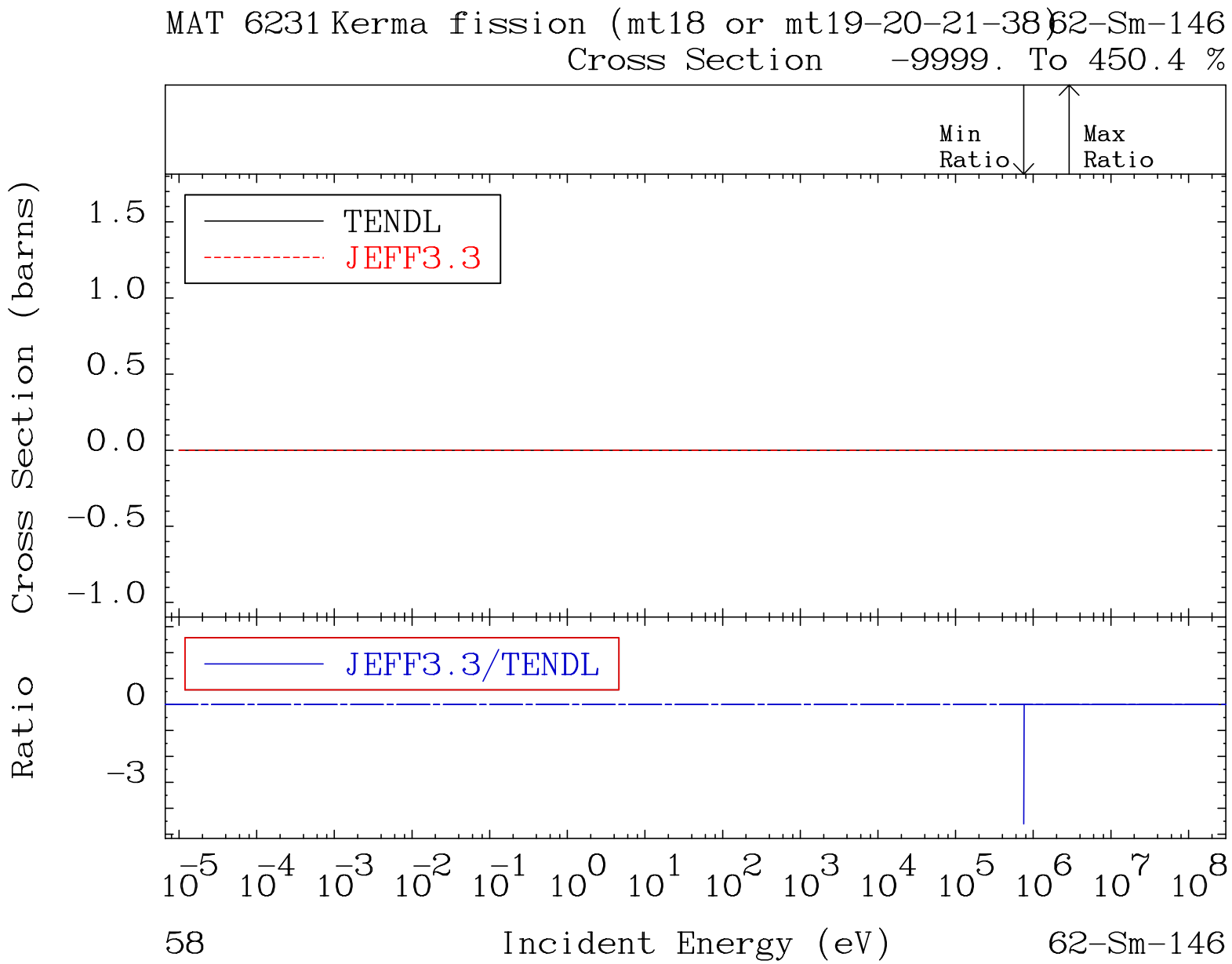

MAT 6231
He-4 Production
Cross Section
62-Sm-146
-23.45 To 3388. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
62-Sm-146

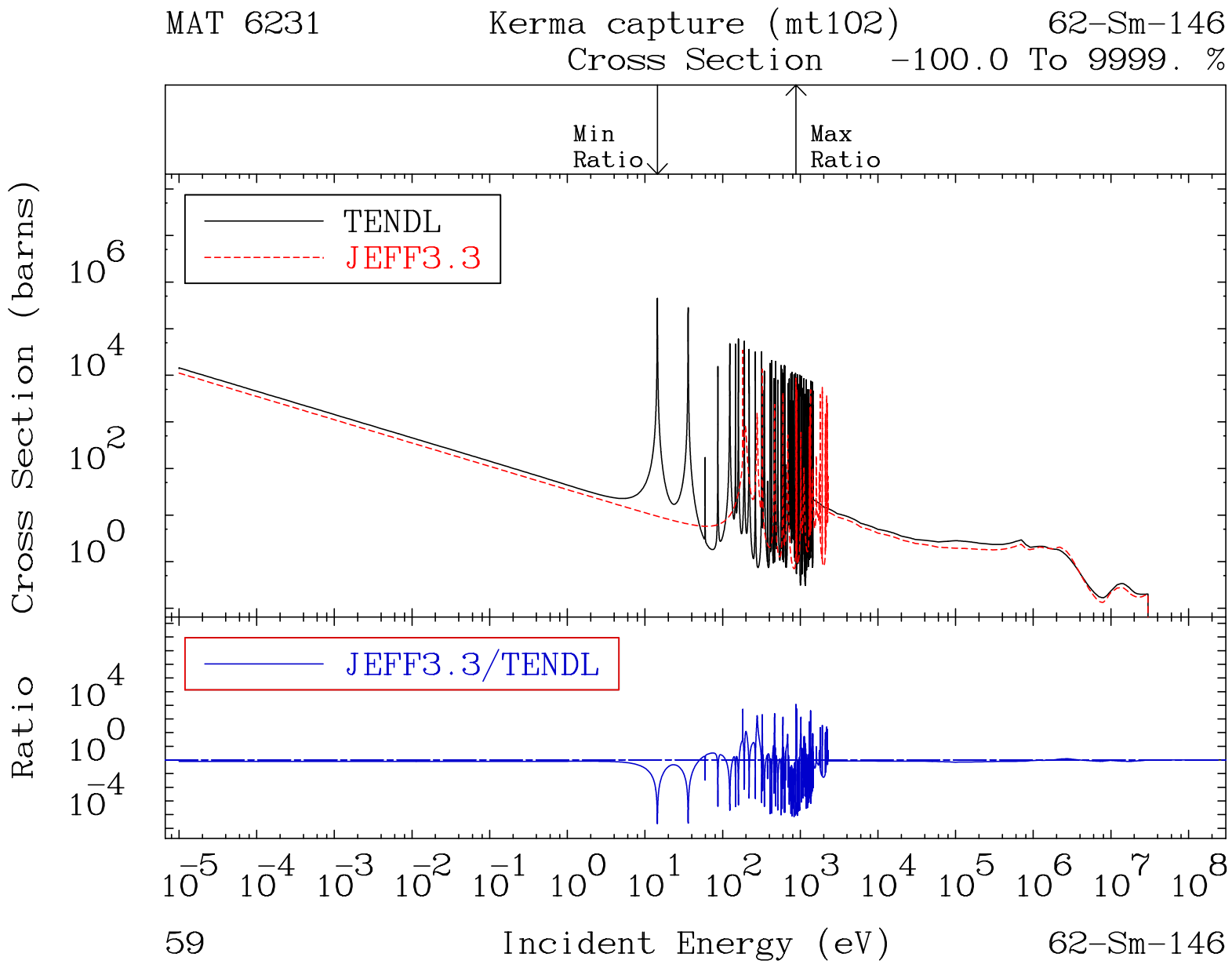

MAT 6231
Kerma total (eV-barns)
62-Sm-146
Cross Section -99.89 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
62-Sm-146

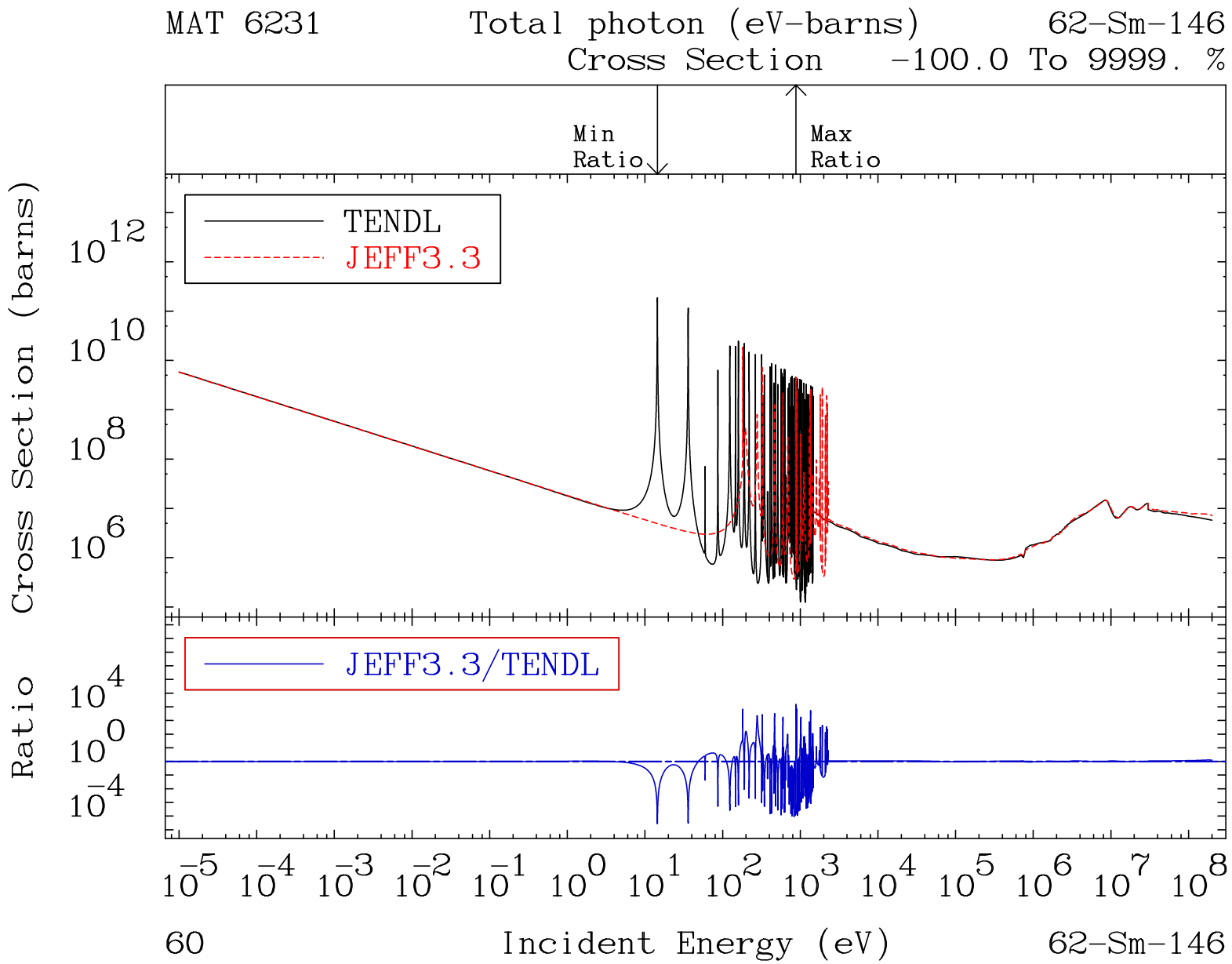

MAT 6231
Kerma elastic
Cross Section
62-Sm-146
-99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
62-Sm-146

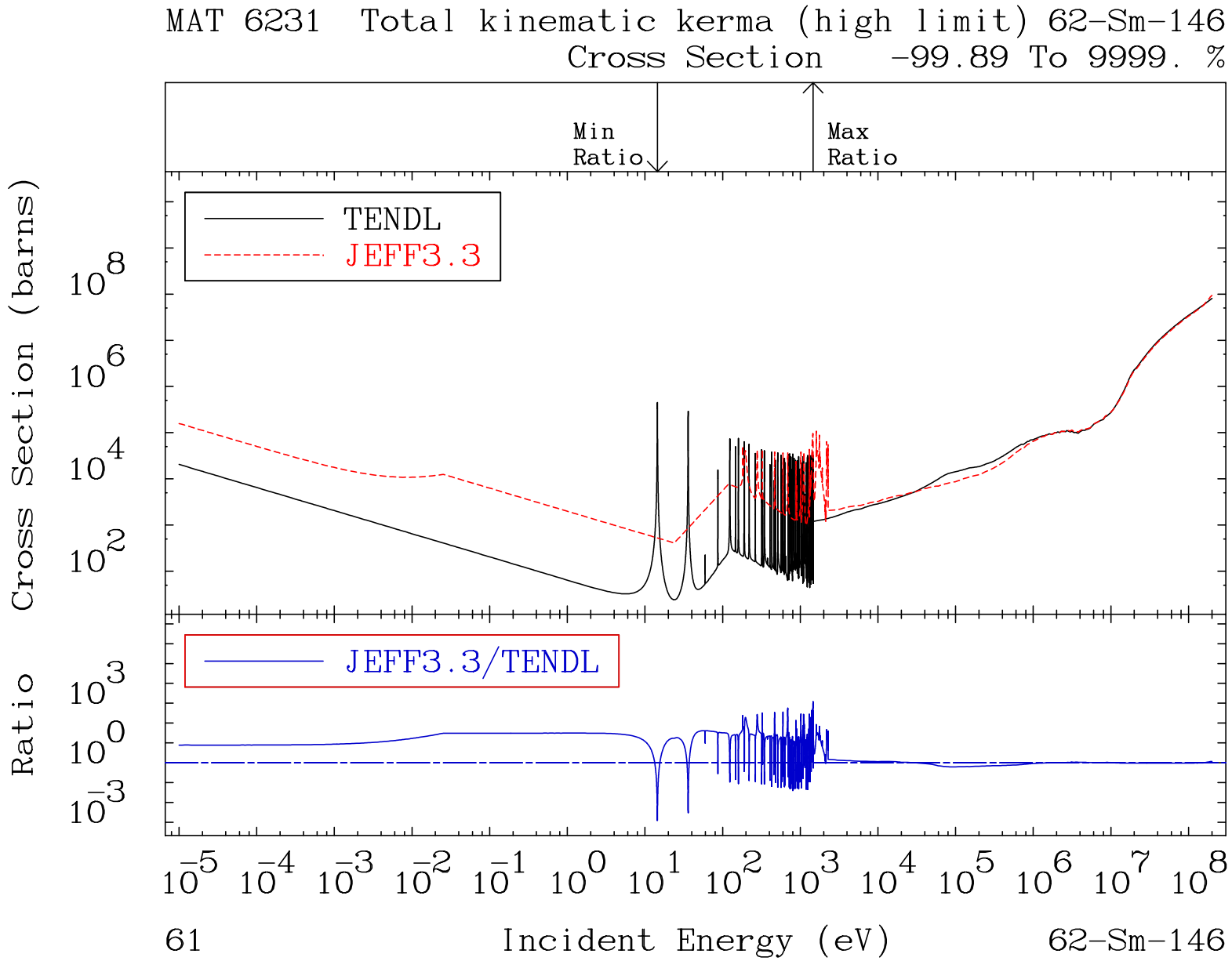

MAT 6231 Kerma non-elastic (all but mt2) 62-Sm-146
Cross Section -99.89 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
62-Sm-146

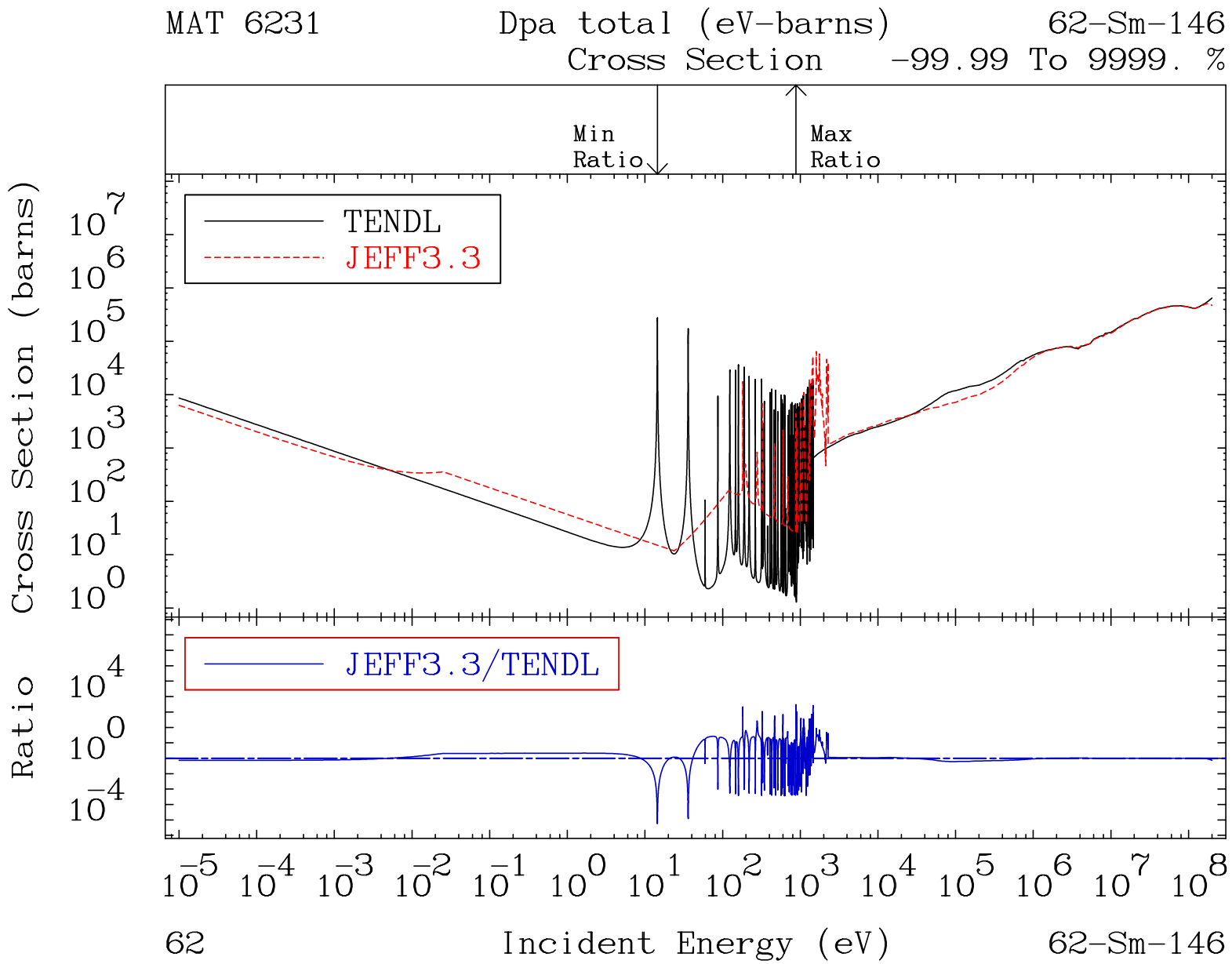

MAT 6231
Kerma inelastic (mt51-91)
62-Sm-146
Cross Section -9999. To 450.4 %
Min Ratio
Max Ratio
TENDL Threshold 752.34 keV
JEFF3.3 Threshold 752.34 keV
JEFF3.3/TENDL
Ratio Cross Section (kilo-barns)
500
400
300
200
100
0
0
-3
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
57
Incident Energy (eV)
62-Sm-146

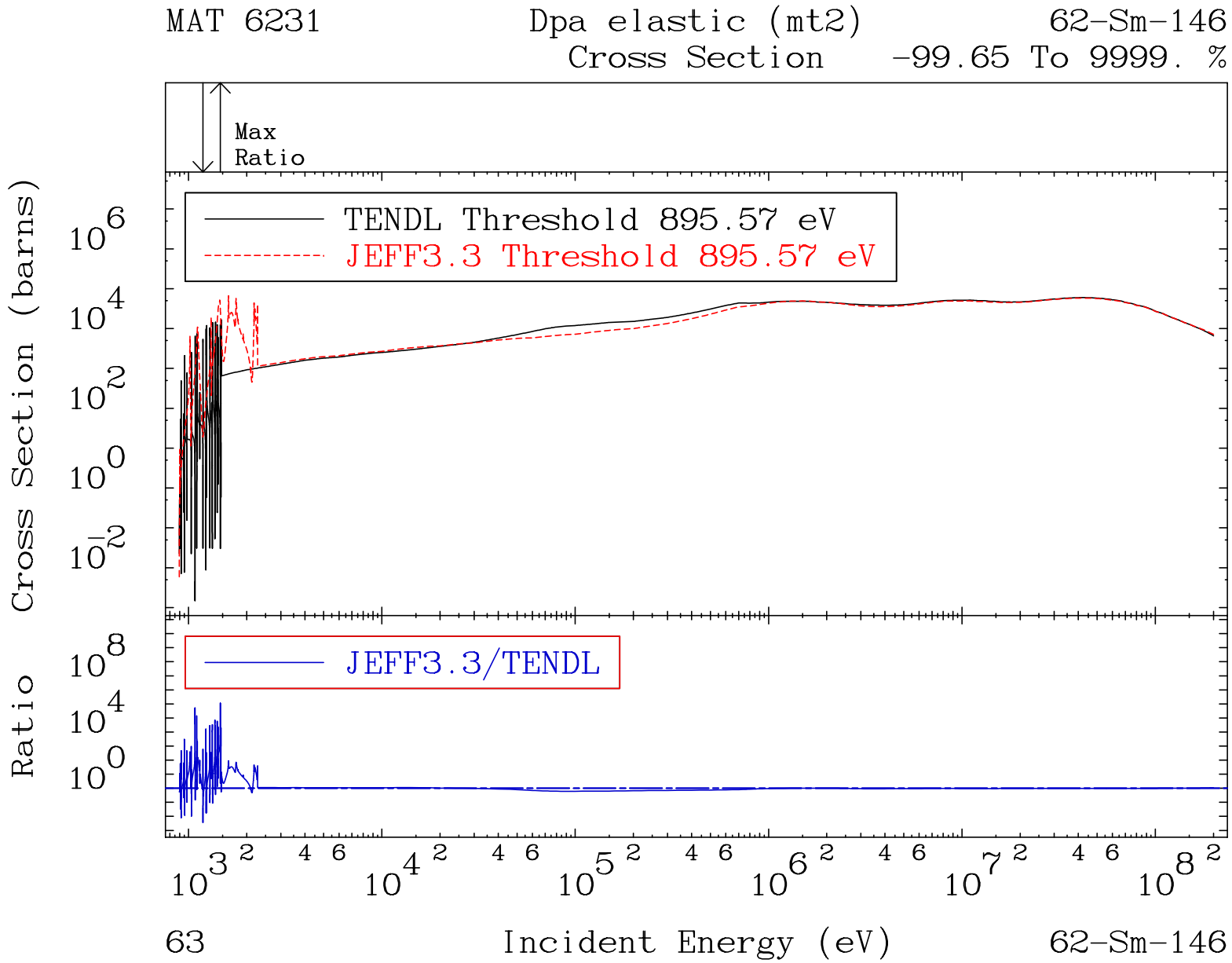

MAT 6231 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-146
Cross Section -9999. To 450.4 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
0
-3
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
58
Incident Energy (eV)
62-Sm-146

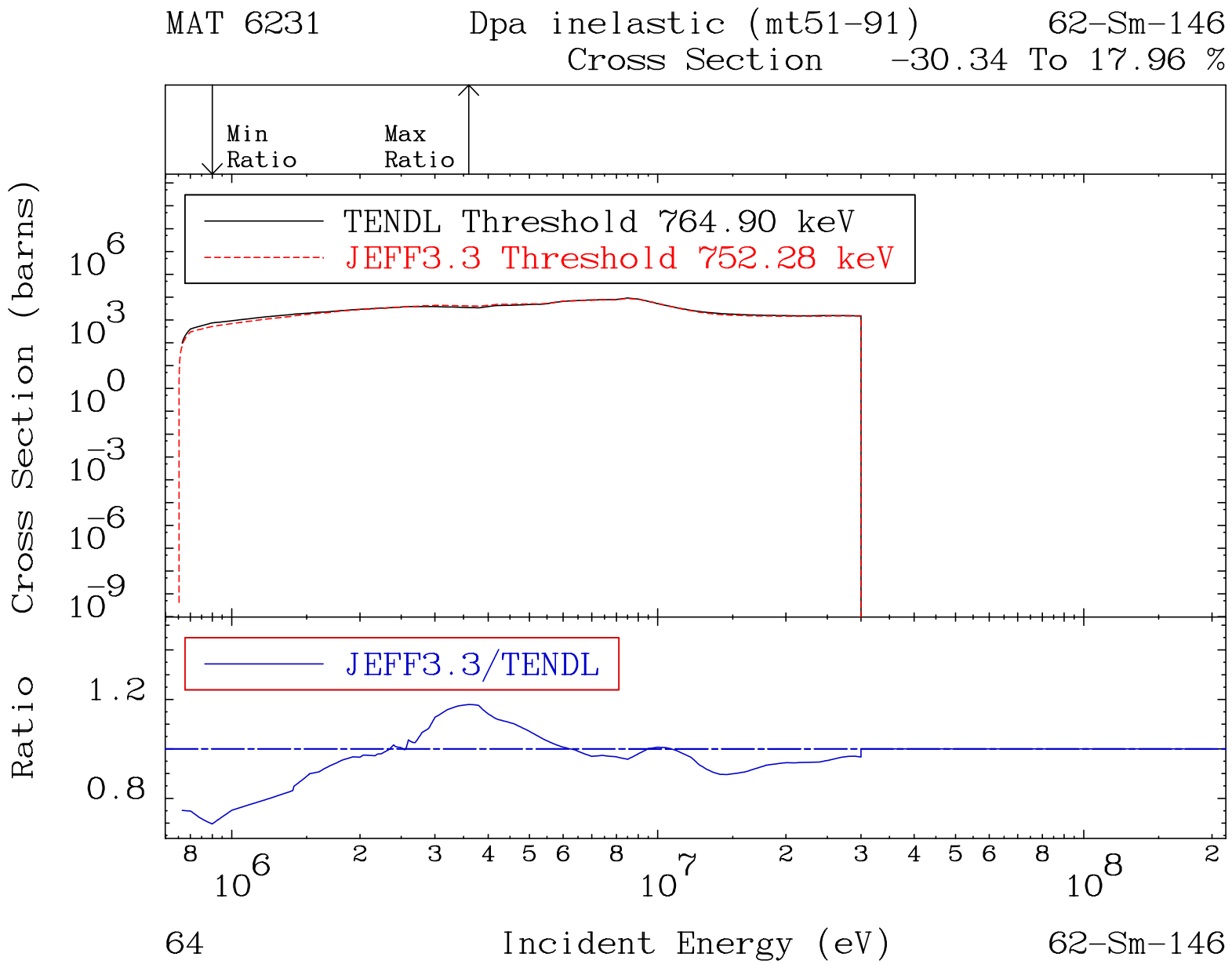

MAT 6231
Kerma capture (mt102)
62-Sm-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
62-Sm-146

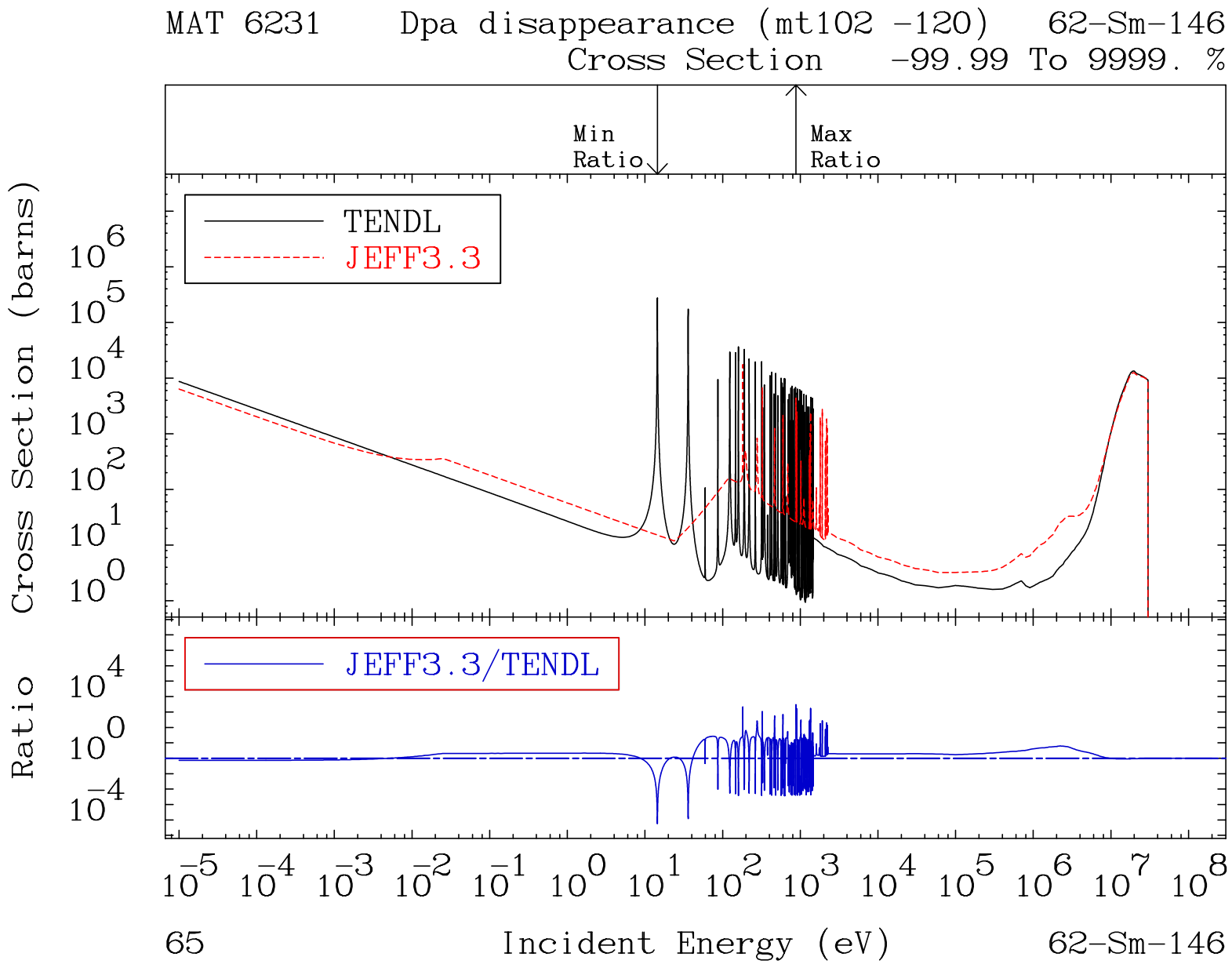

MAT 6231
Total photon (eV-barns)
62-Sm-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
62-Sm-146

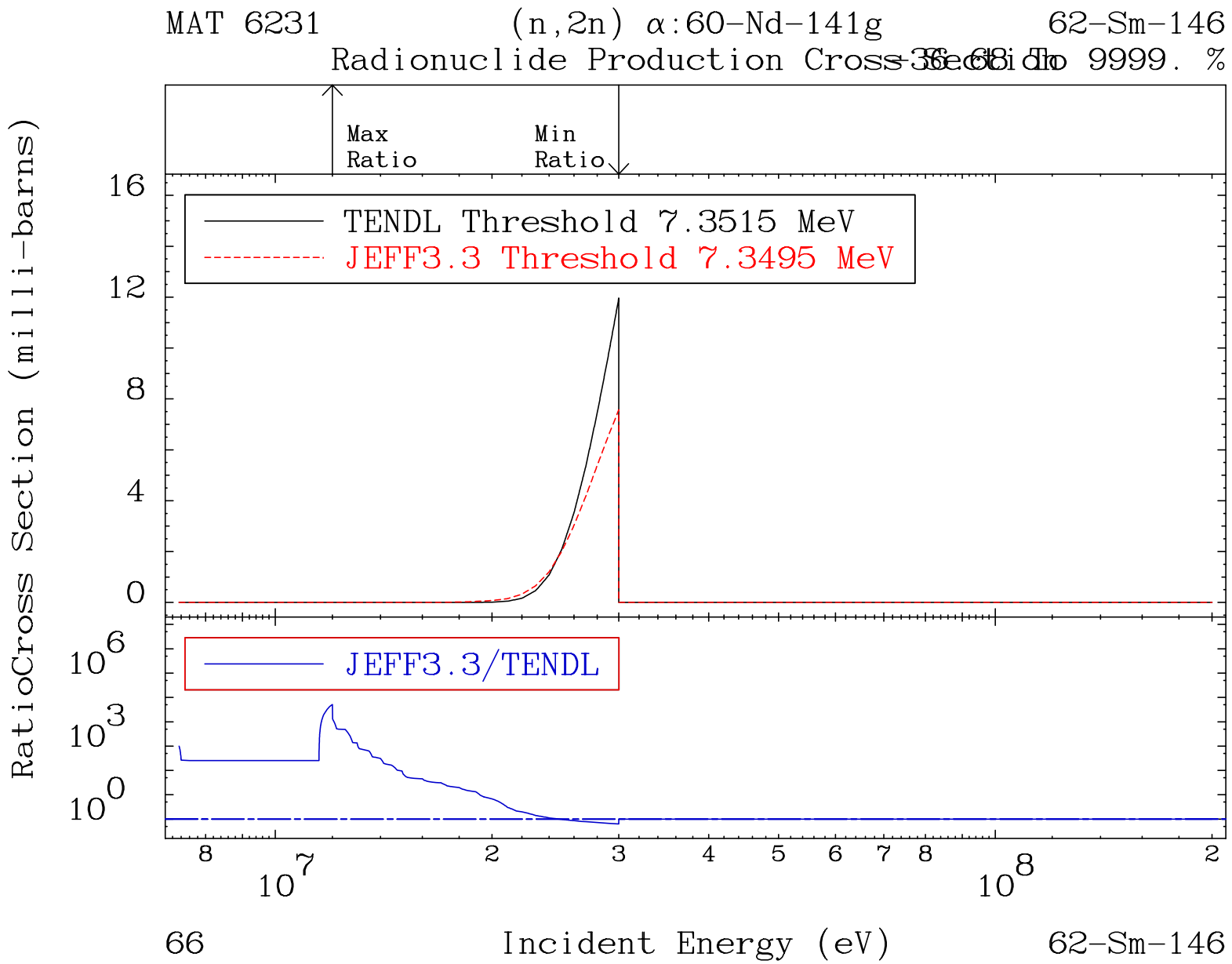

MAT 6231 Total kinematic kerma (high limit) 62-Sm-146
Cross Section -99.89 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
62-Sm-146

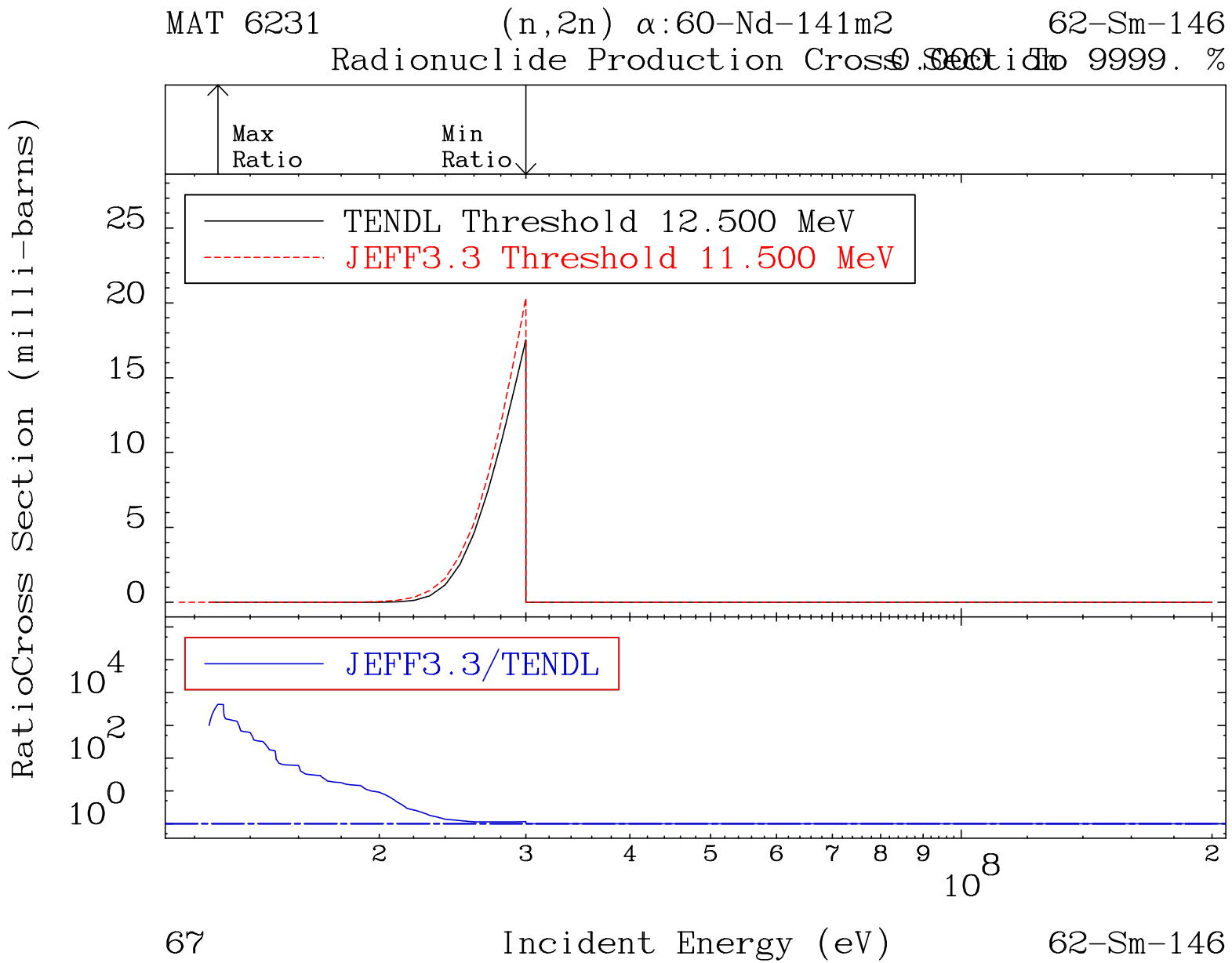

MAT 6231
Dpa total (eV-barns)
62-Sm-146
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
62-Sm-146

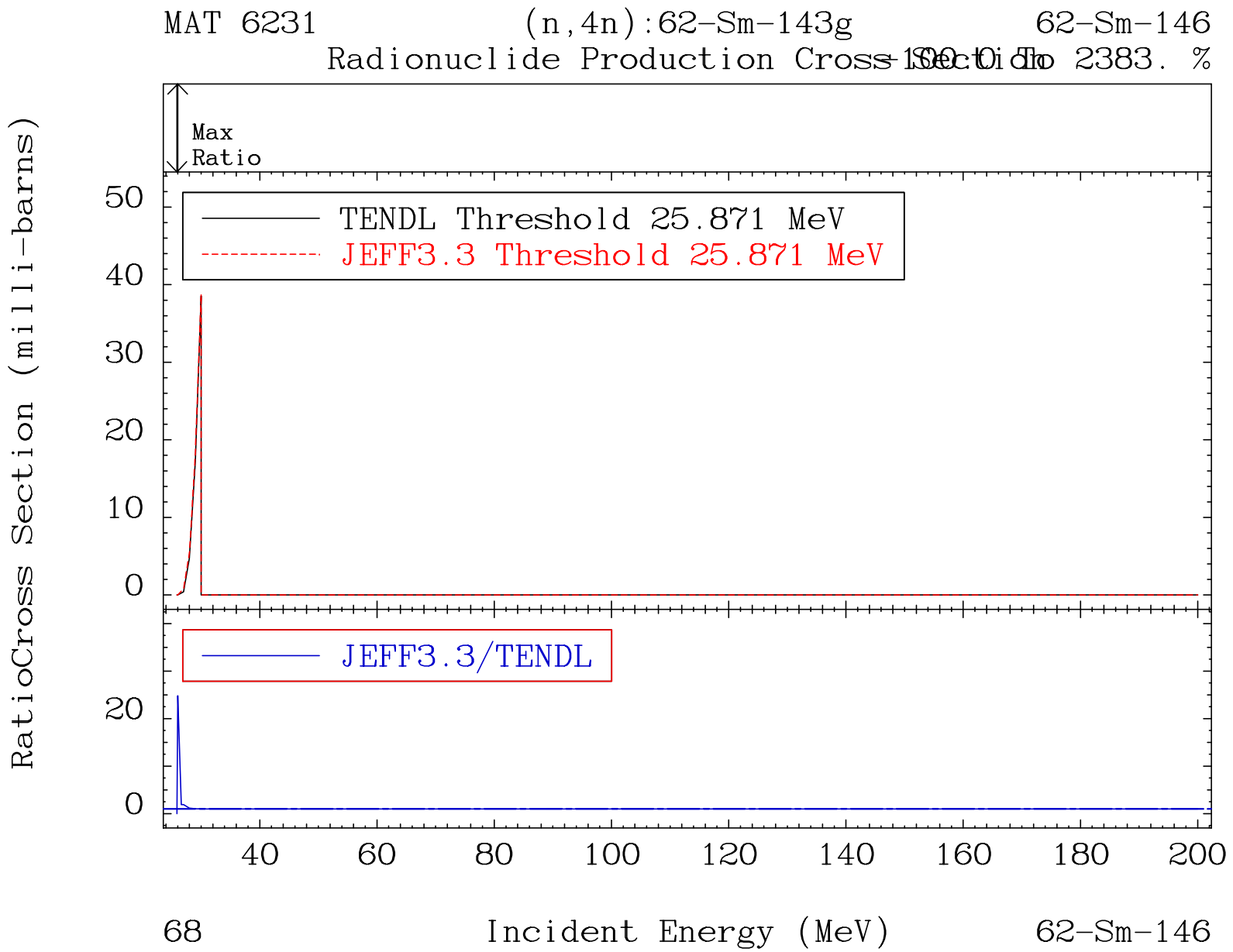

MAT 6231
Dpa elastic (mt2)
Cross Section
62-Sm-146
-99.65 To 9999. %
Max
Ratio
TENDL Threshold 895.57 eV
JEFF3.3 Threshold 895.57 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
62-Sm-146

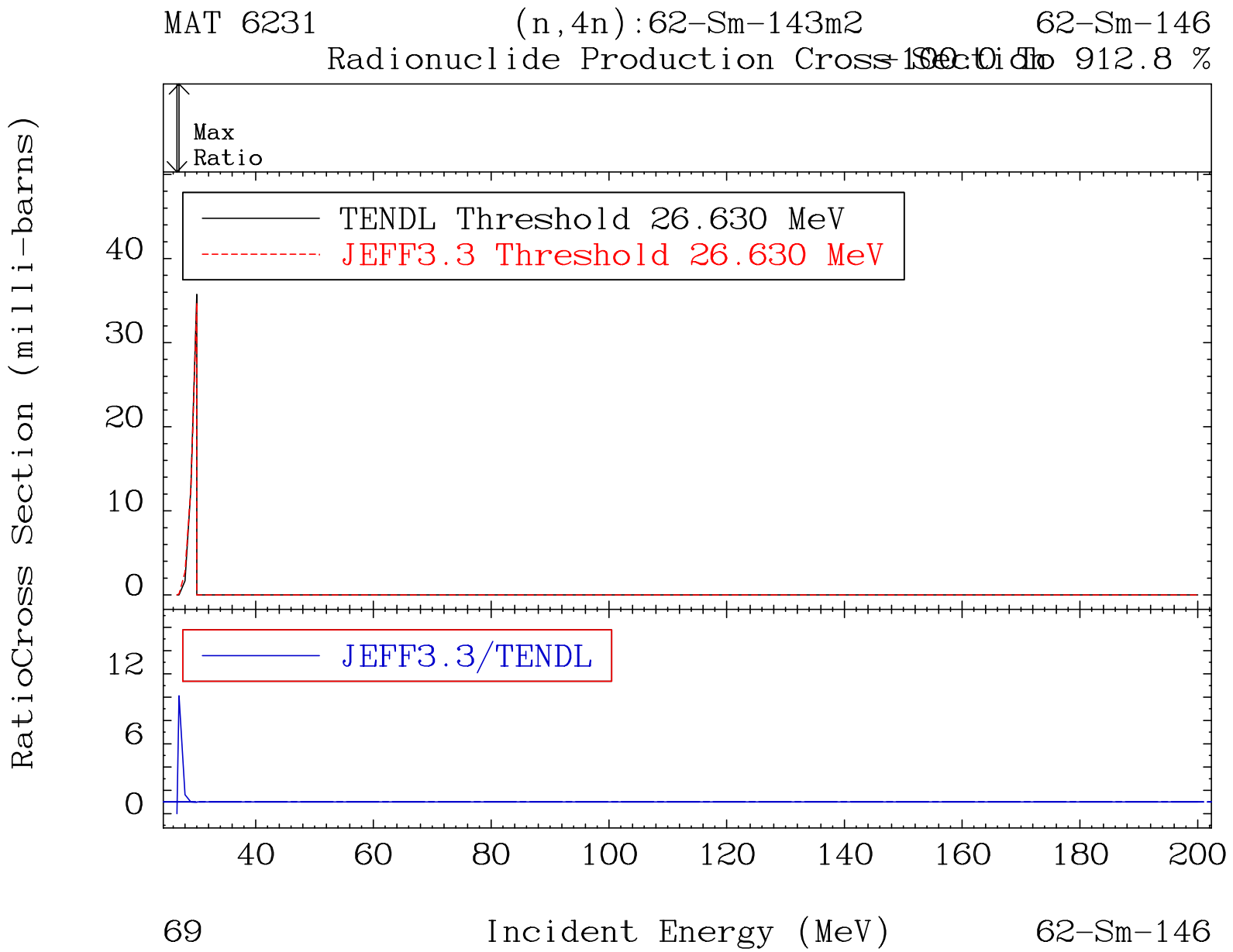

MAT 6231
Dpa inelastic (mt51-91)
62-Sm-146
Cross Section
-30.34 To 17.96 %
Min Ratio
Max Ratio
TENDL Threshold 764.90 keV
JEFF3.3 Threshold 752.28 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
62-Sm-146


MAT 6231 Dpa disappearance (mt102 -120) 62-Sm-146
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
62-Sm-146


MAT 6231
(n,2n) α:60-Nd-141g
62-Sm-146
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.3515 MeV
JEFF3.3 Threshold 7.3495 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
10^6
10^3
10^0
8
10^7
2
3
4
5
6
7
8
10^8
2
66
Incident Energy (eV)
62-Sm-146


MAT 6231
(n,2n) α:60-Nd-141m2
62-Sm-146
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 12.500 MeV
JEFF3.3 Threshold 11.500 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
67
Incident Energy (eV)
62-Sm-146


MAT 6231
(n,4n):62-Sm-143g
62-Sm-146
Radionuclide Production Cross Section To 2383. %
Max
Ratio
TENDL Threshold 25.871 MeV
JEFF3.3 Threshold 25.871 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
20
0
40
60
80
100
120
140
160
180
200
68
Incident Energy (MeV)
62-Sm-146


MAT 6231
(n,4n):62-Sm-143m2
62-Sm-146
Radionuclide Production Cross Section To 912.8 %
Max
Ratio
TENDL Threshold 26.630 MeV
JEFF3.3 Threshold 26.630 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
12
6
0
40
60
80
100
120
140
160
180
200
69
Incident Energy (MeV)
62-Sm-146