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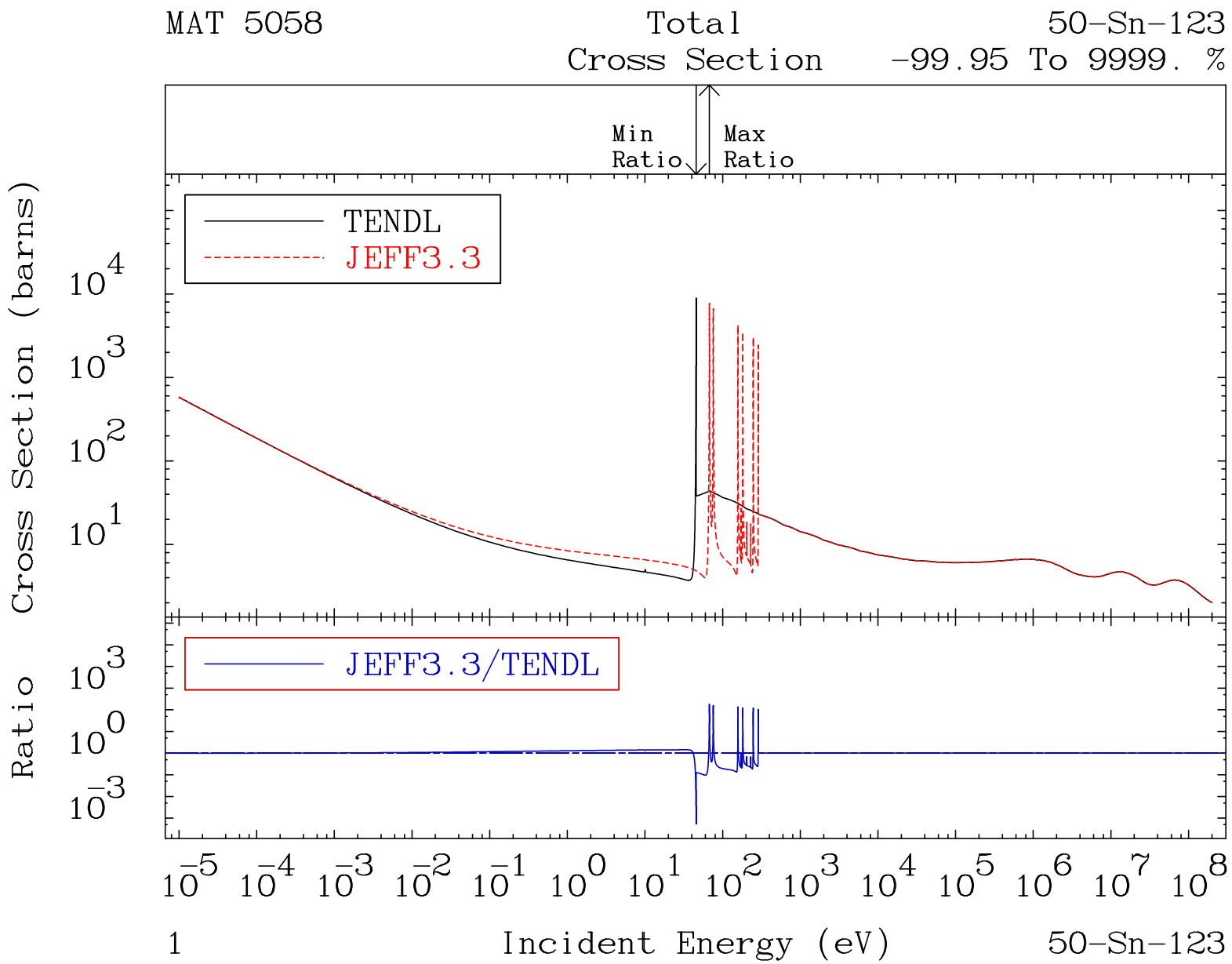
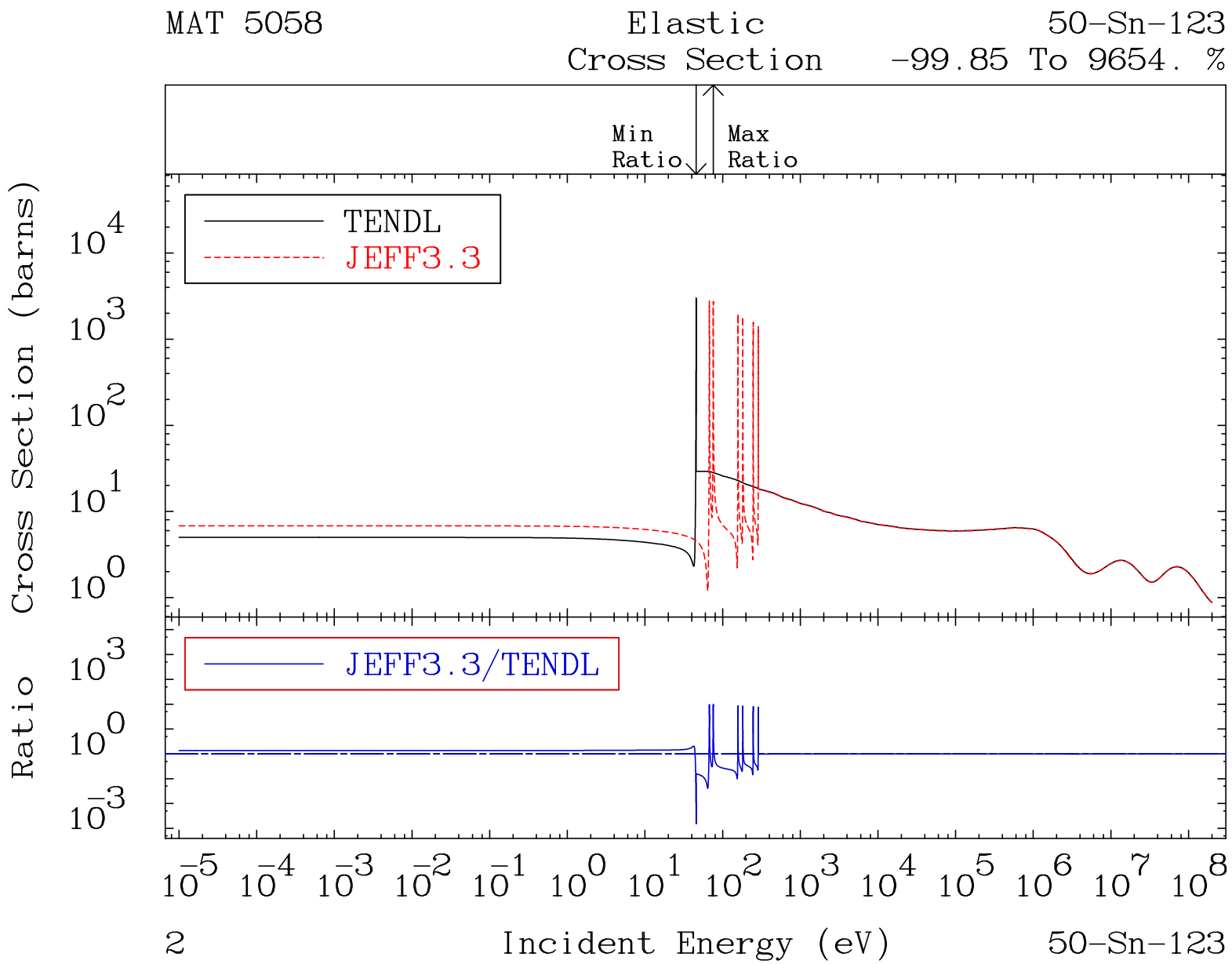
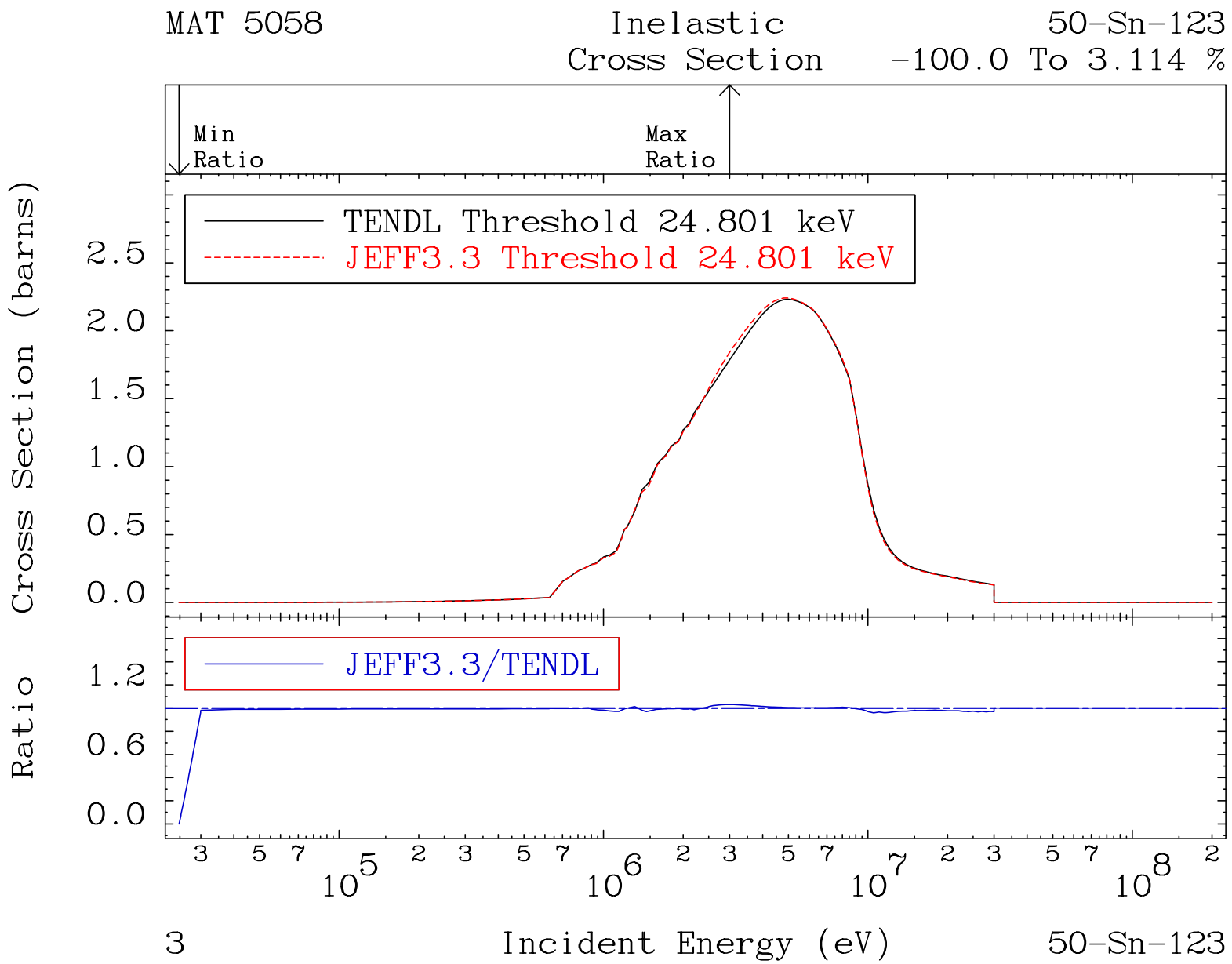
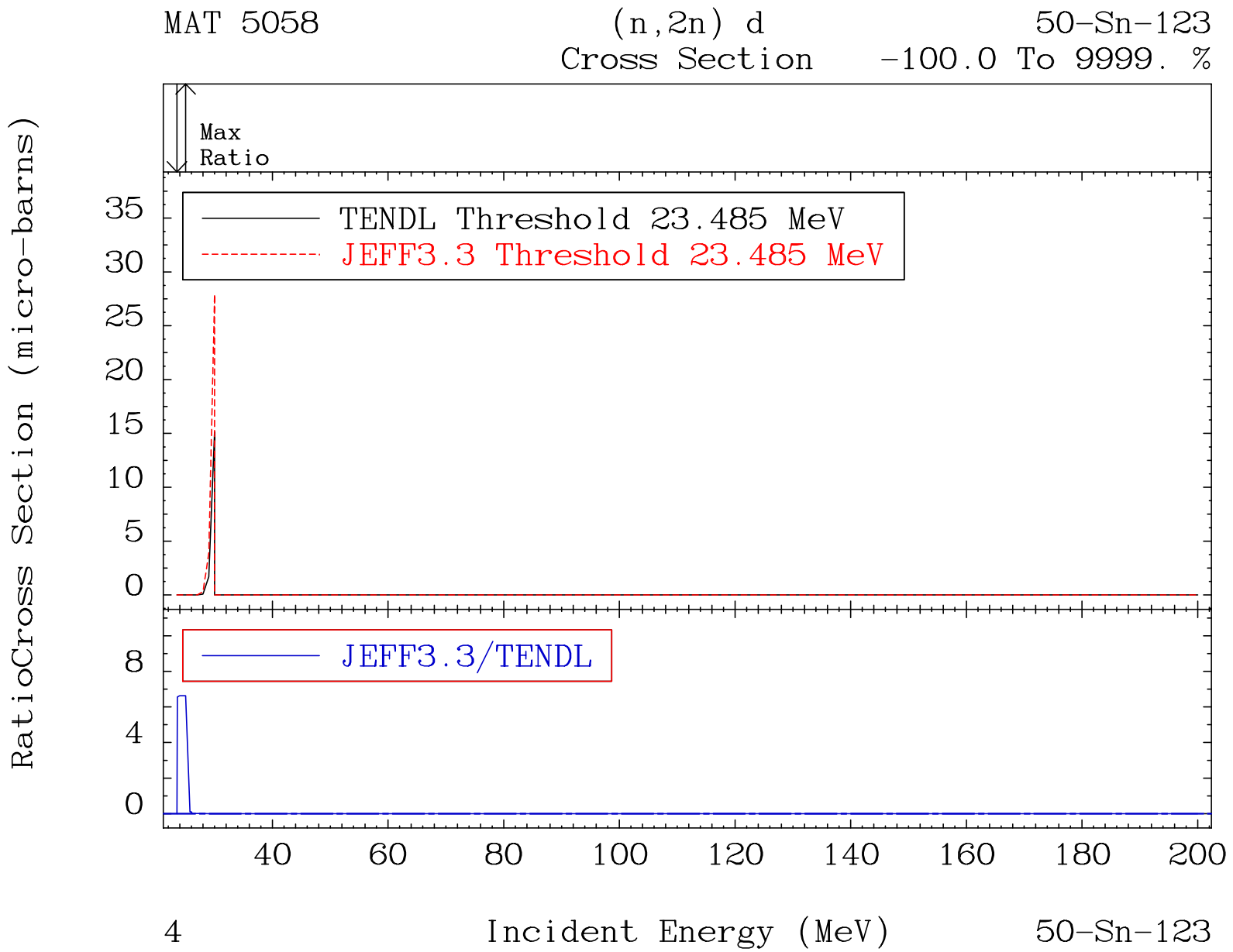
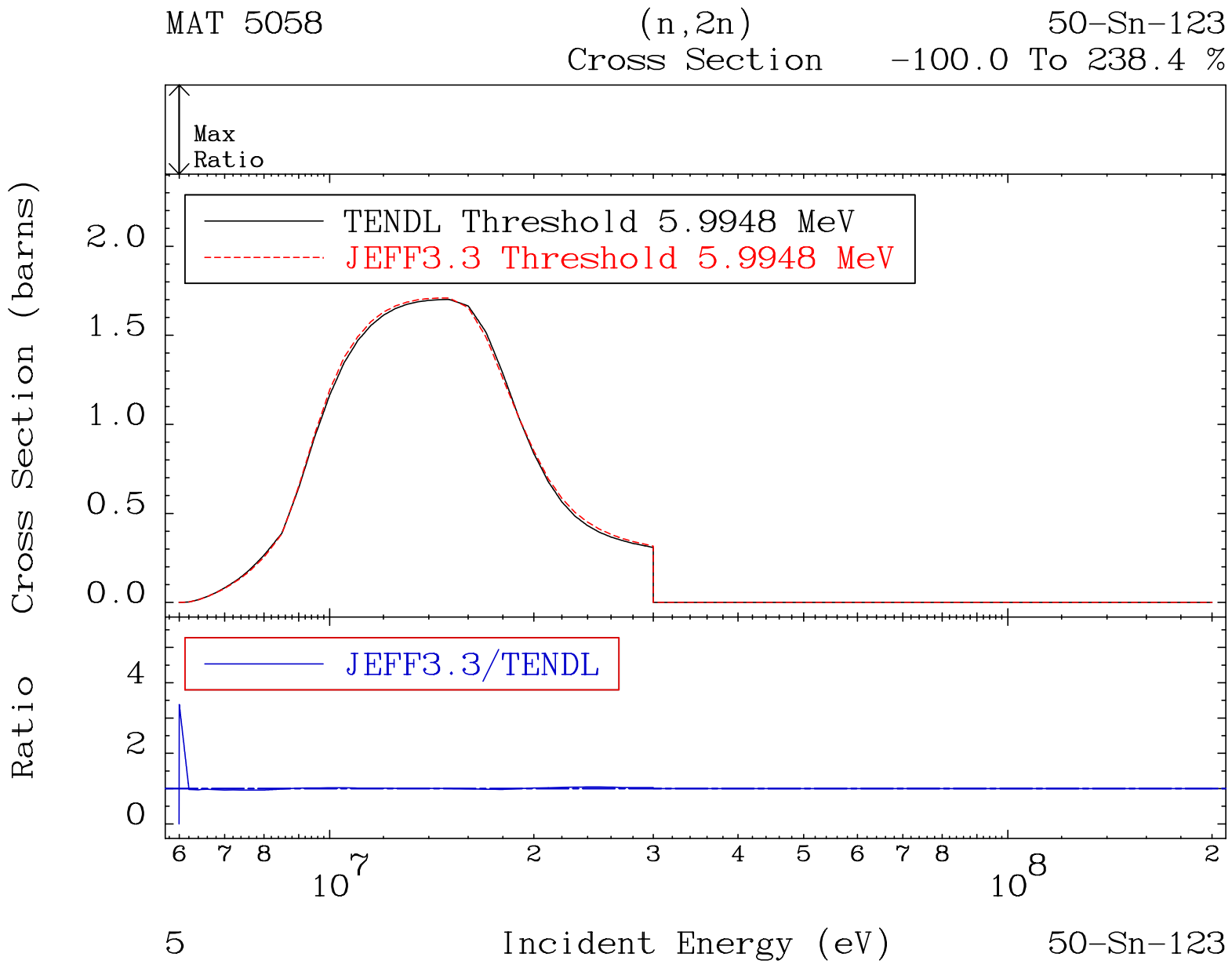
Press Mouse Button to Start

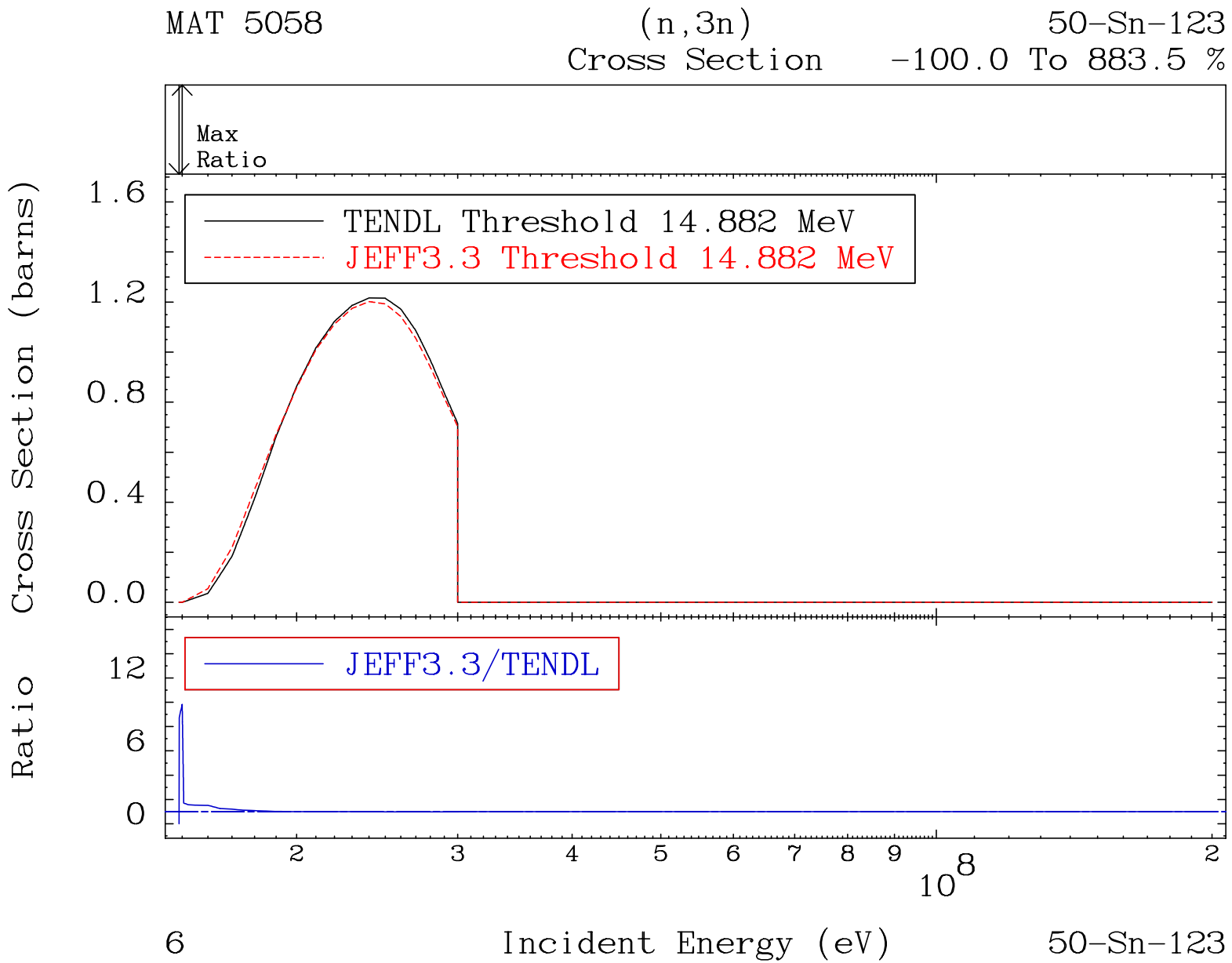

MAT 5058
Total
Cross Section
50-Sn-123
-99.95 To 9999. %
Min
Ratio
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
50-Sn-123

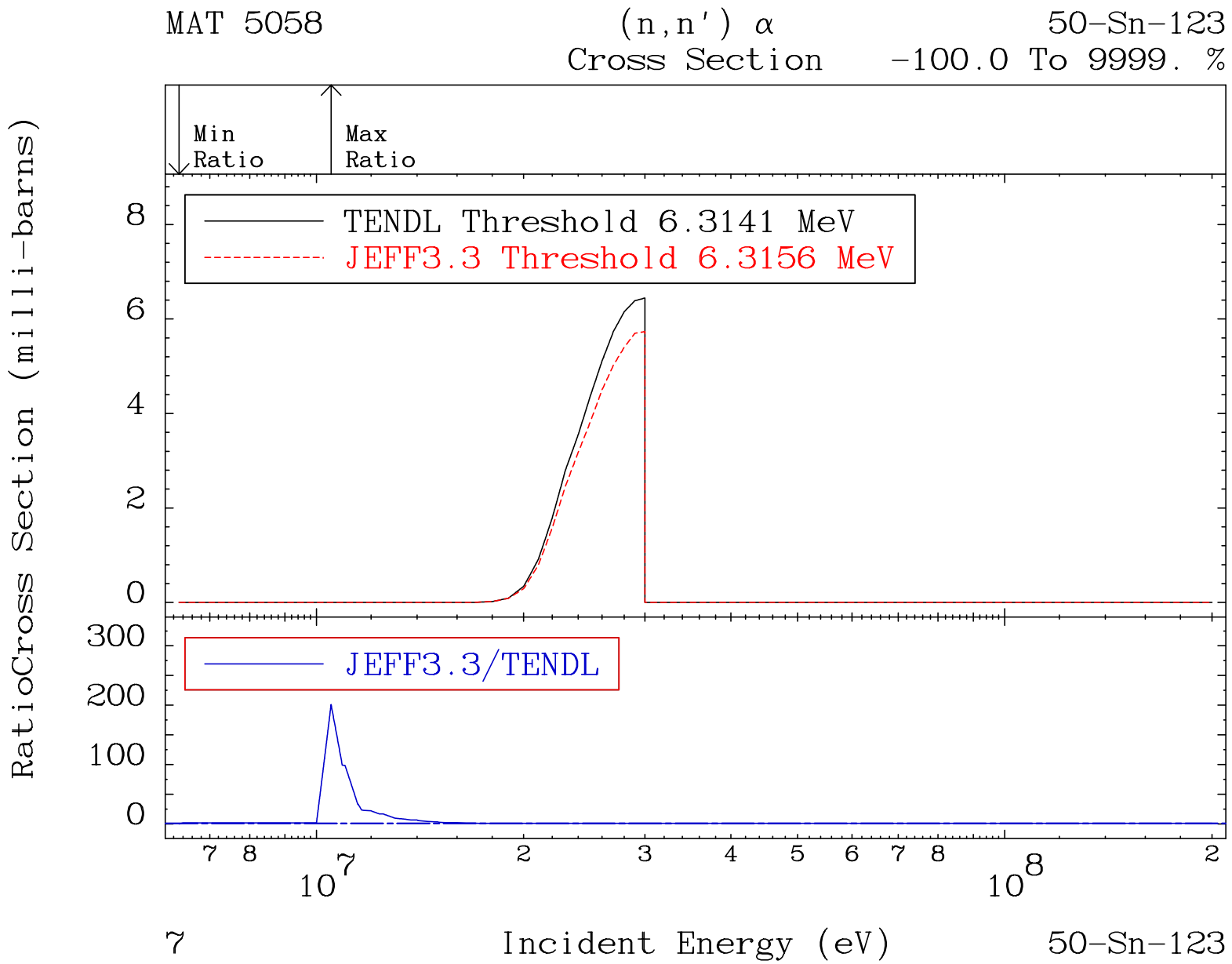

MAT 5058
Elastic
Cross Section
50-Sn-123
-99.85 To 9654. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
50-Sn-123

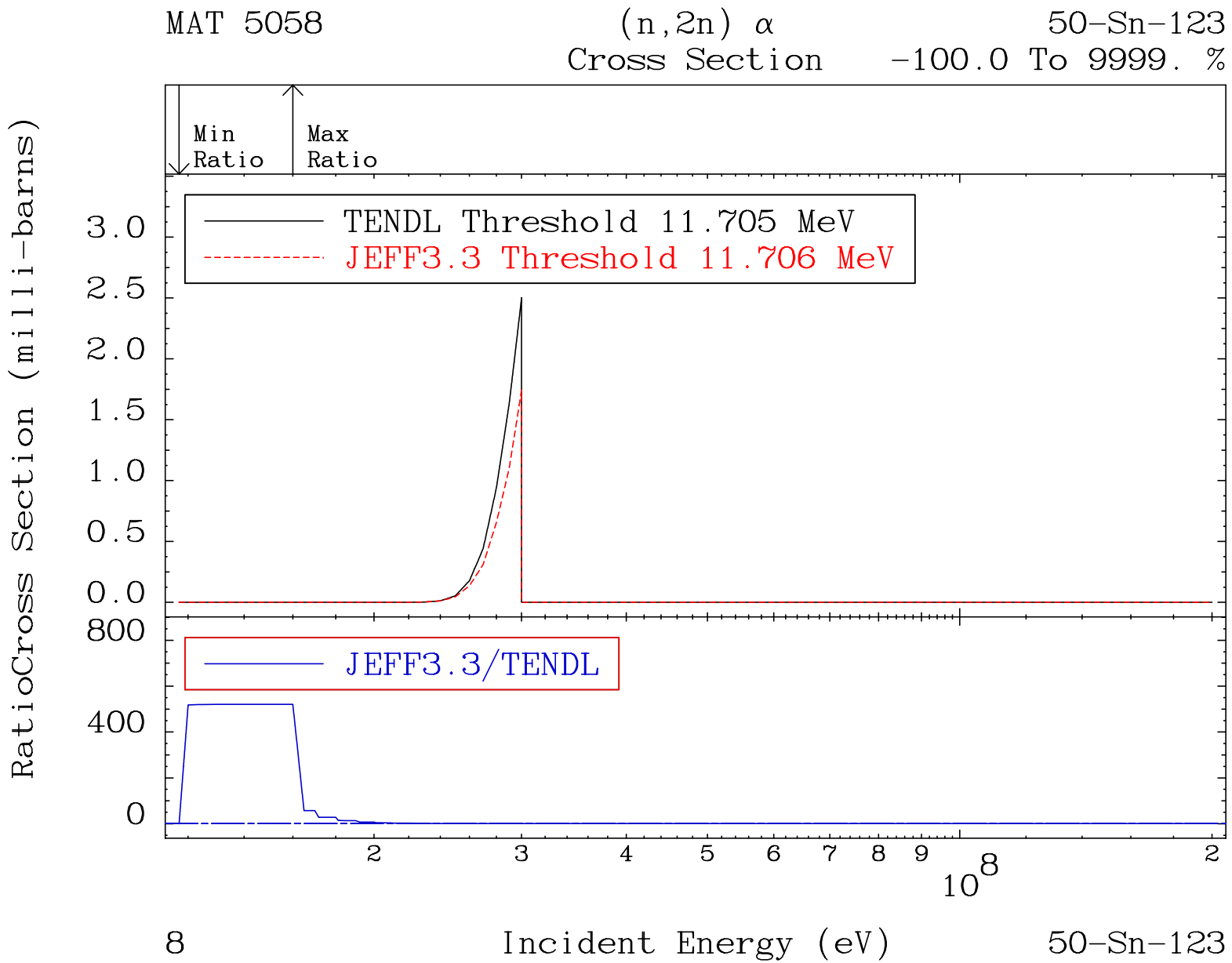

MAT 5058
Inelastic
Cross Section
50-Sn-123
-100.0 To 3.114 %
Min
Ratio
Max
Ratio
TENDL Threshold 24.801 keV
JEFF3.3 Threshold 24.801 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
50-Sn-123

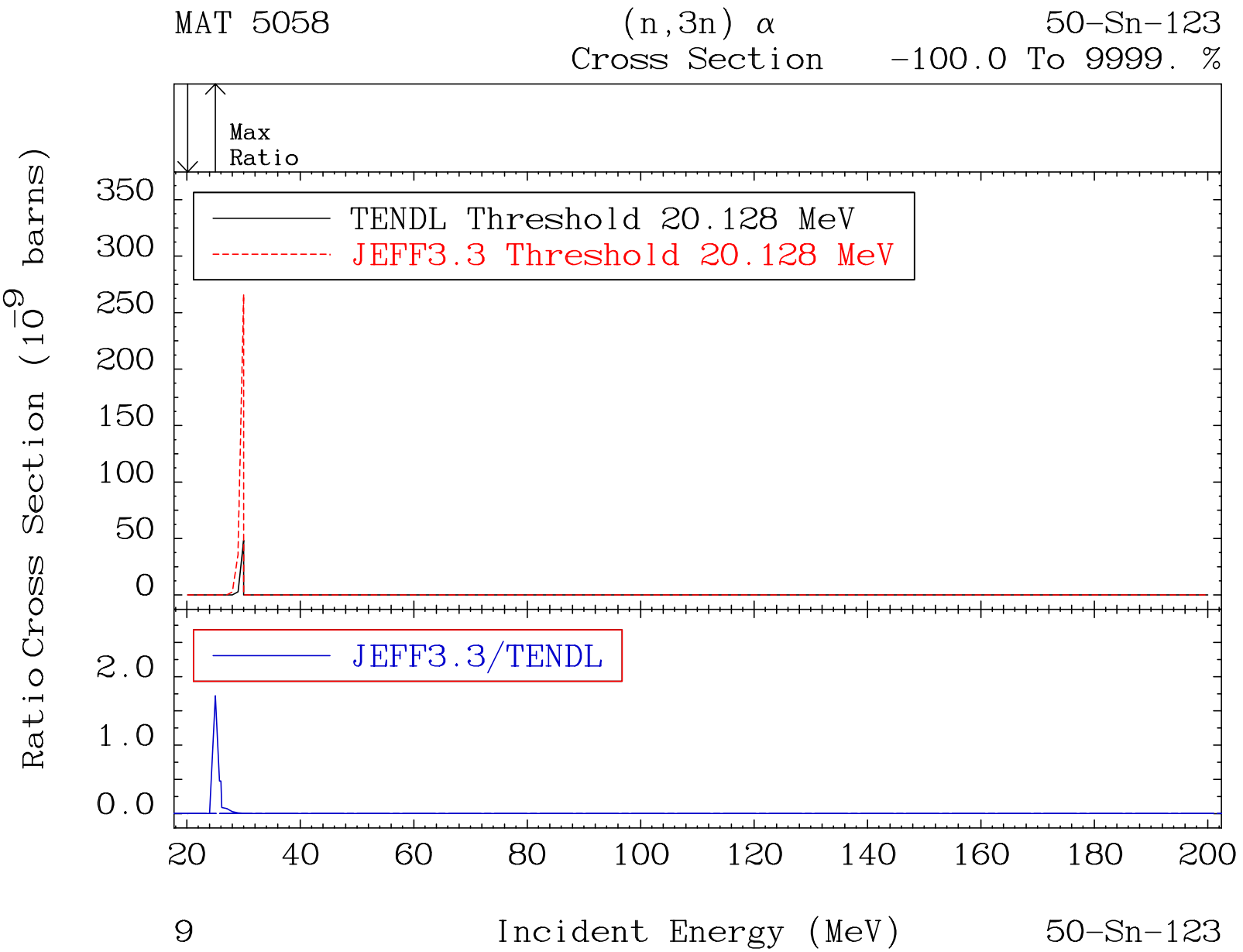

MAT 5058
(n,2n) d
50-Sn-123
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 23.485 MeV
JEFF3.3 Threshold 23.485 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
35
30
25
20
15
10
5
0
8
4
0
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
50-Sn-123

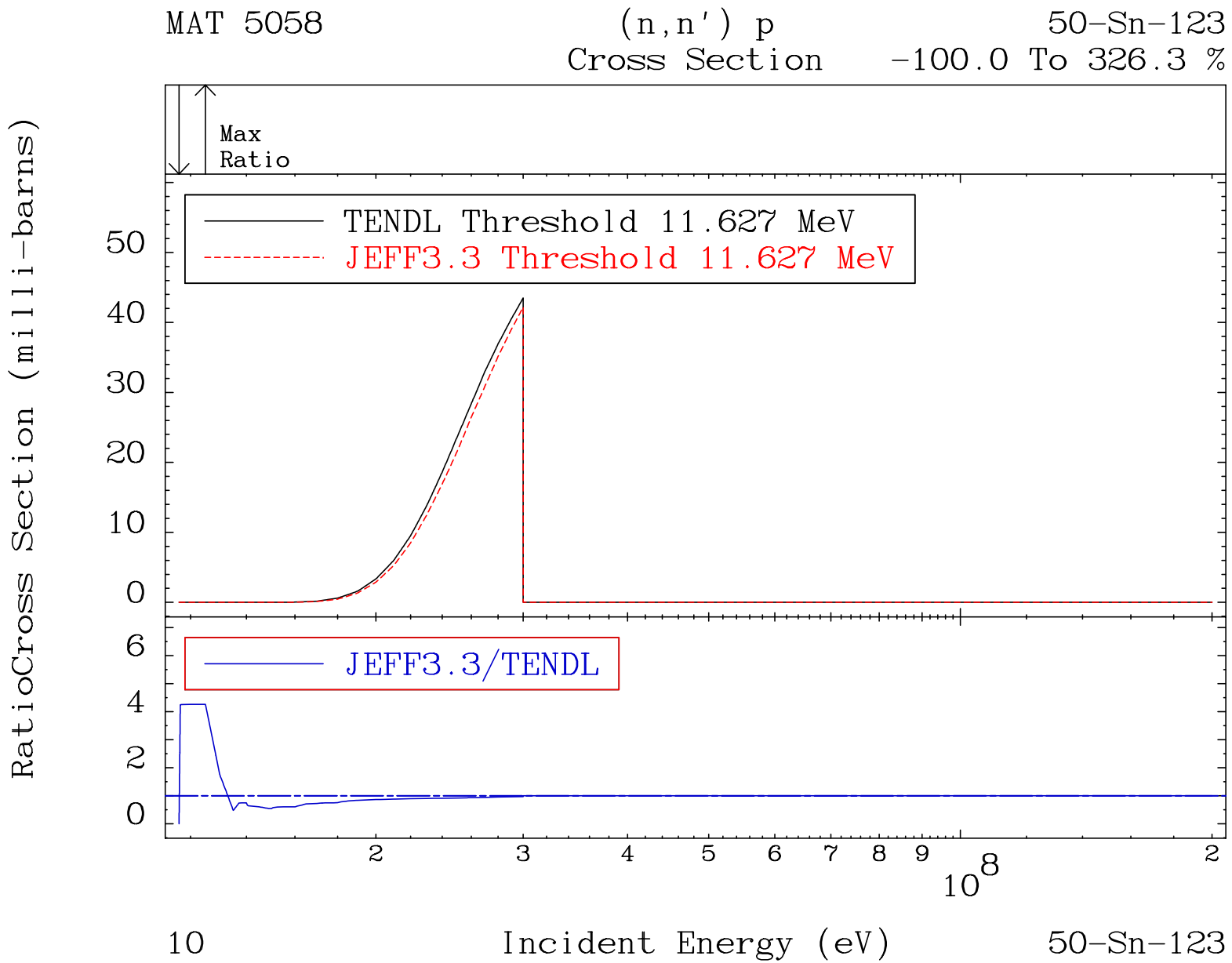

MAT 5058
(n,2n)
Cross Section
50-Sn-123
-100.0 To 238.4 %
Max
Ratio
TENDL Threshold 5.9948 MeV
JEFF3.3 Threshold 5.9948 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
4
2
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
5
Incident Energy (eV)
50-Sn-123

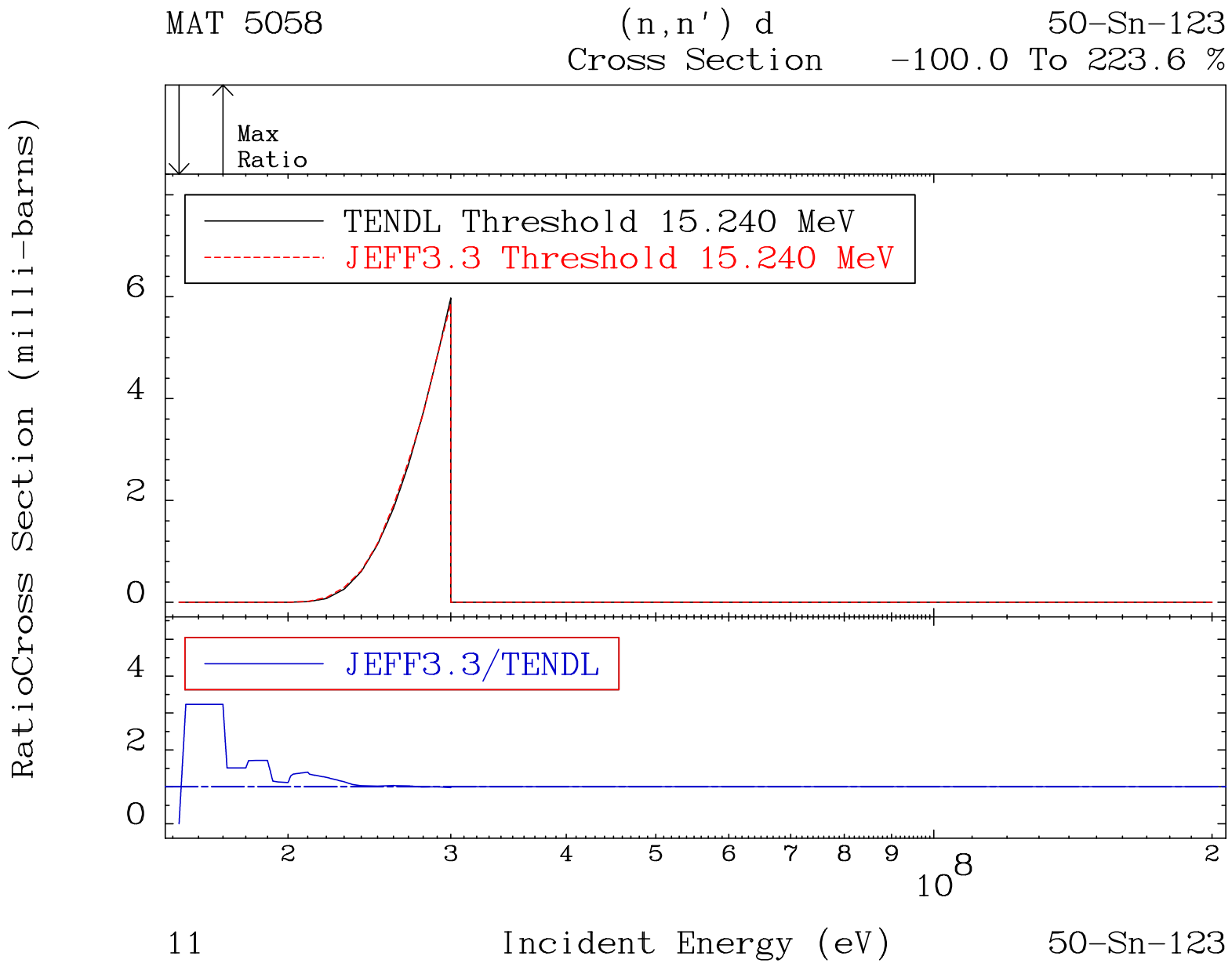

MAT 5058
(n,3n)
Cross Section
50-Sn-123
-100.0 To 883.5 %
Max
Ratio
TENDL Threshold 14.882 MeV
JEFF3.3 Threshold 14.882 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
12
6
0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
50-Sn-123

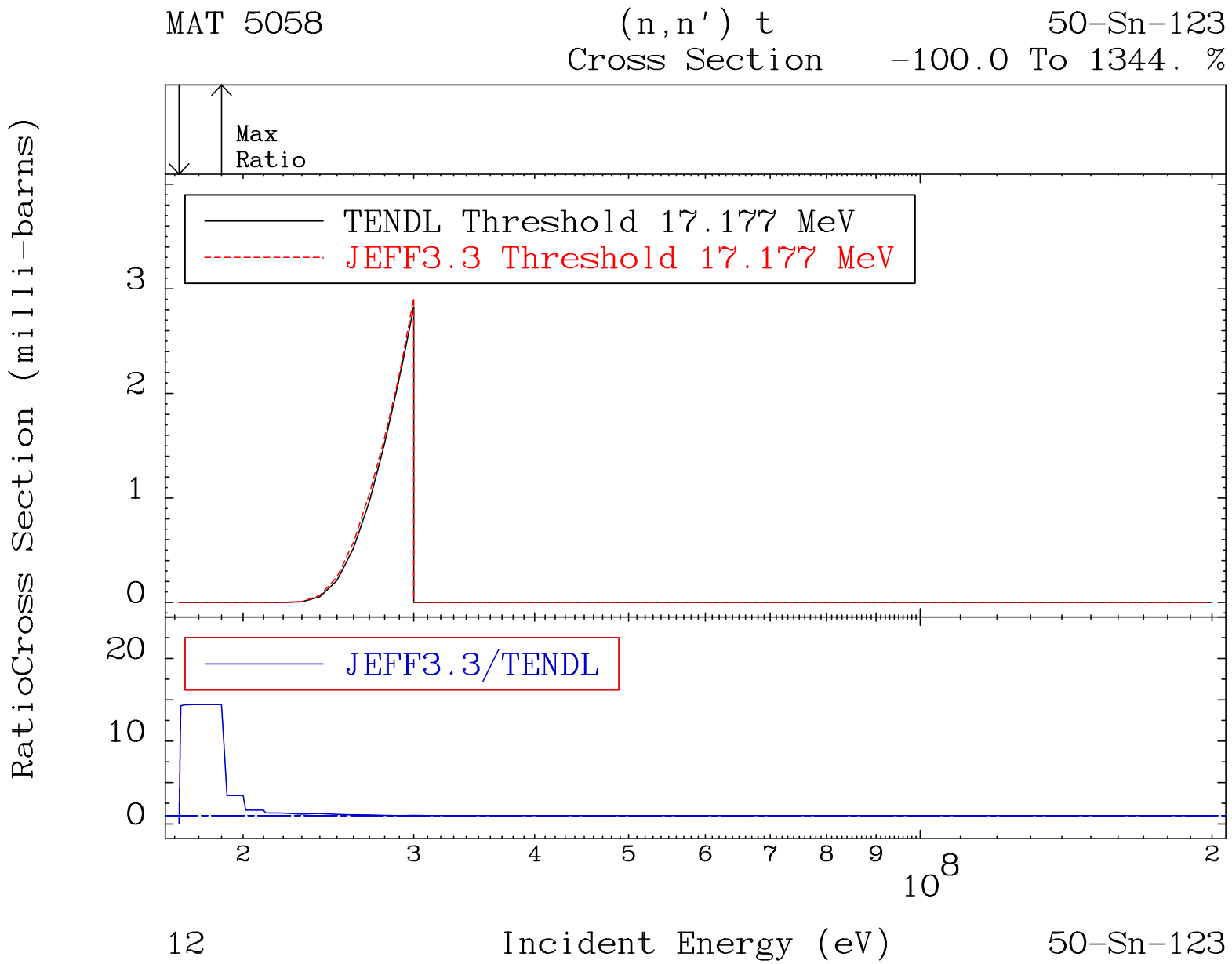

MAT 5058
(n,n') α
Cross Section
50-Sn-123
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.3141 MeV
JEFF3.3 Threshold 6.3156 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
50-Sn-123

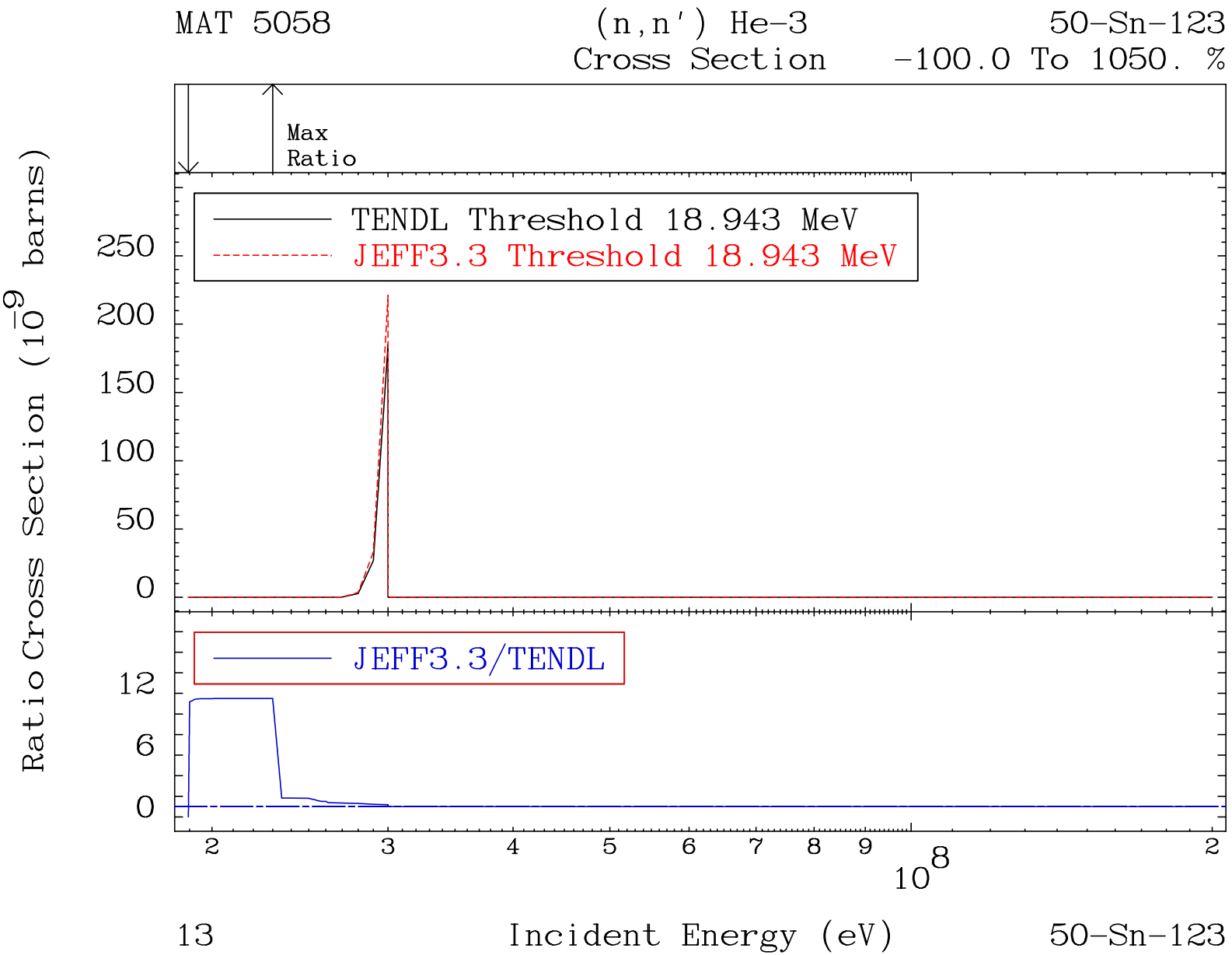

MAT 5058
(n,2n) α
50-Sn-123
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.705 MeV
JEFF3.3 Threshold 11.706 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
800
400
0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
50-Sn-123

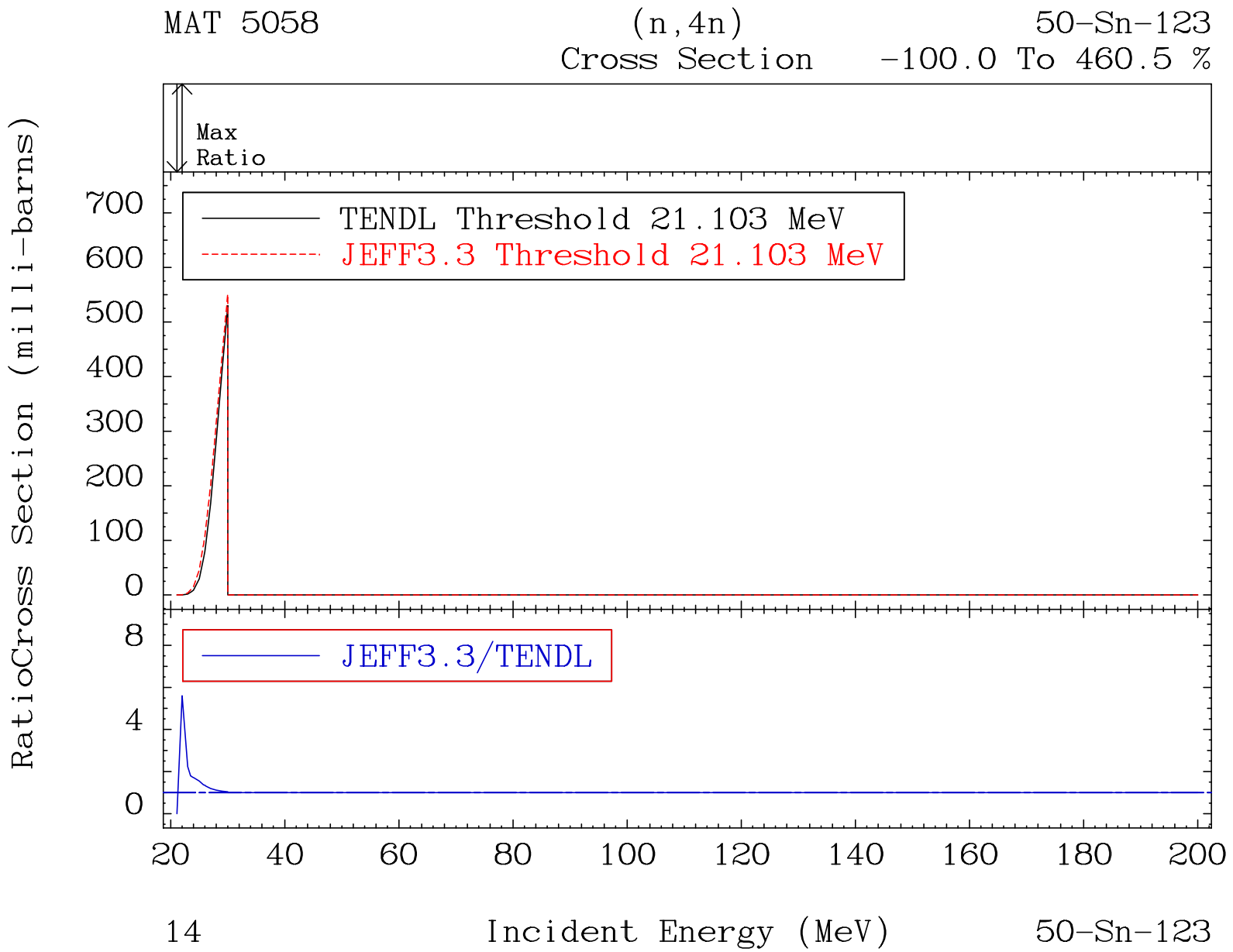

MAT 5058
(n,3n) α
Cross Section
50-Sn-123
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 20.128 MeV
JEFF3.3 Threshold 20.128 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
350
300
250
200
150
100
50
0
2.0
1.0
0.0
20
40
60
80
100
120
140
160
180
200
9
Incident Energy (MeV)
50-Sn-123

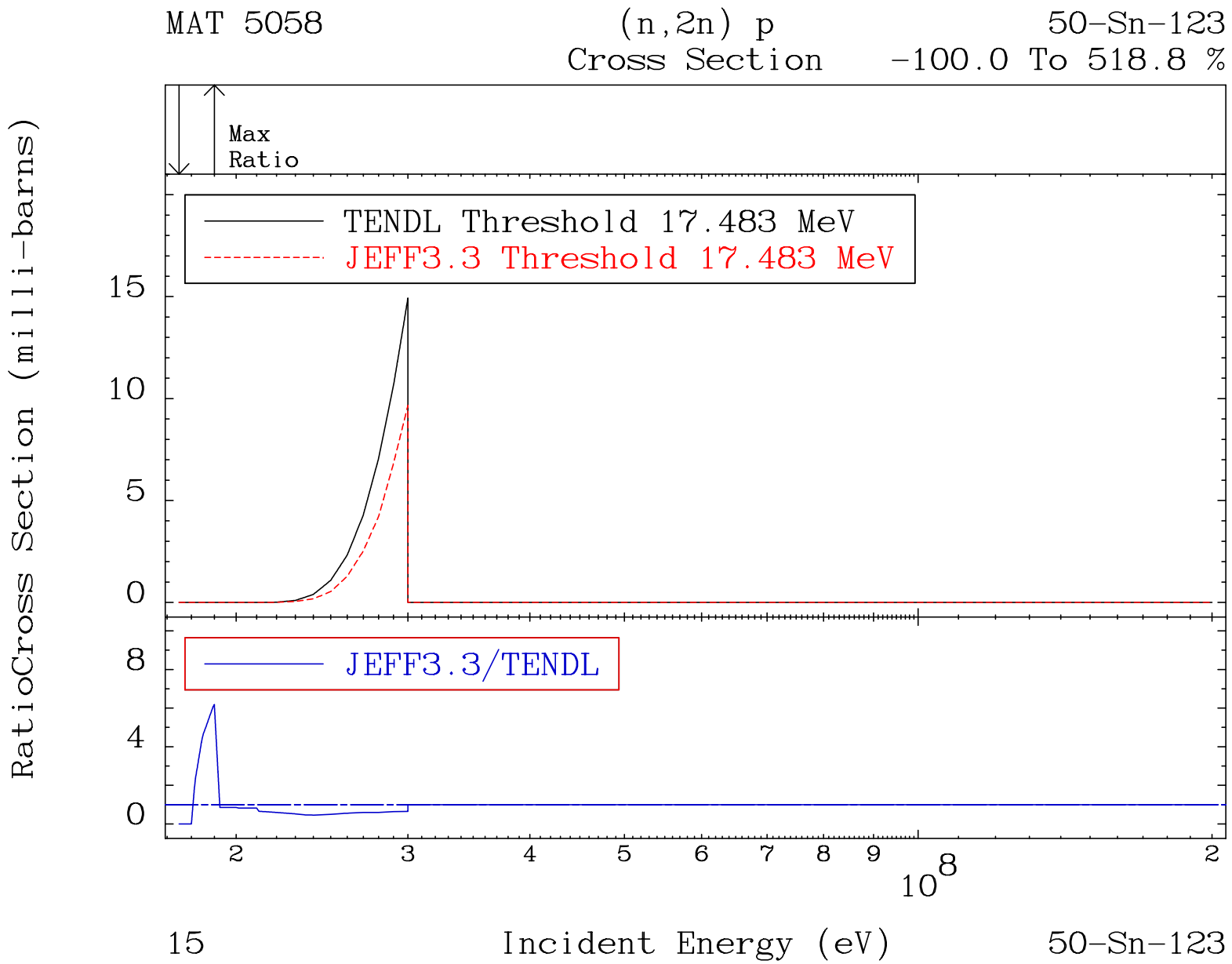

MAT 5058
(n,n') p
Cross Section
50-Sn-123
-100.0 To 326.3 %
Max
Ratio
TENDL Threshold 11.627 MeV
JEFF3.3 Threshold 11.627 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
6
4
2
0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
50-Sn-123

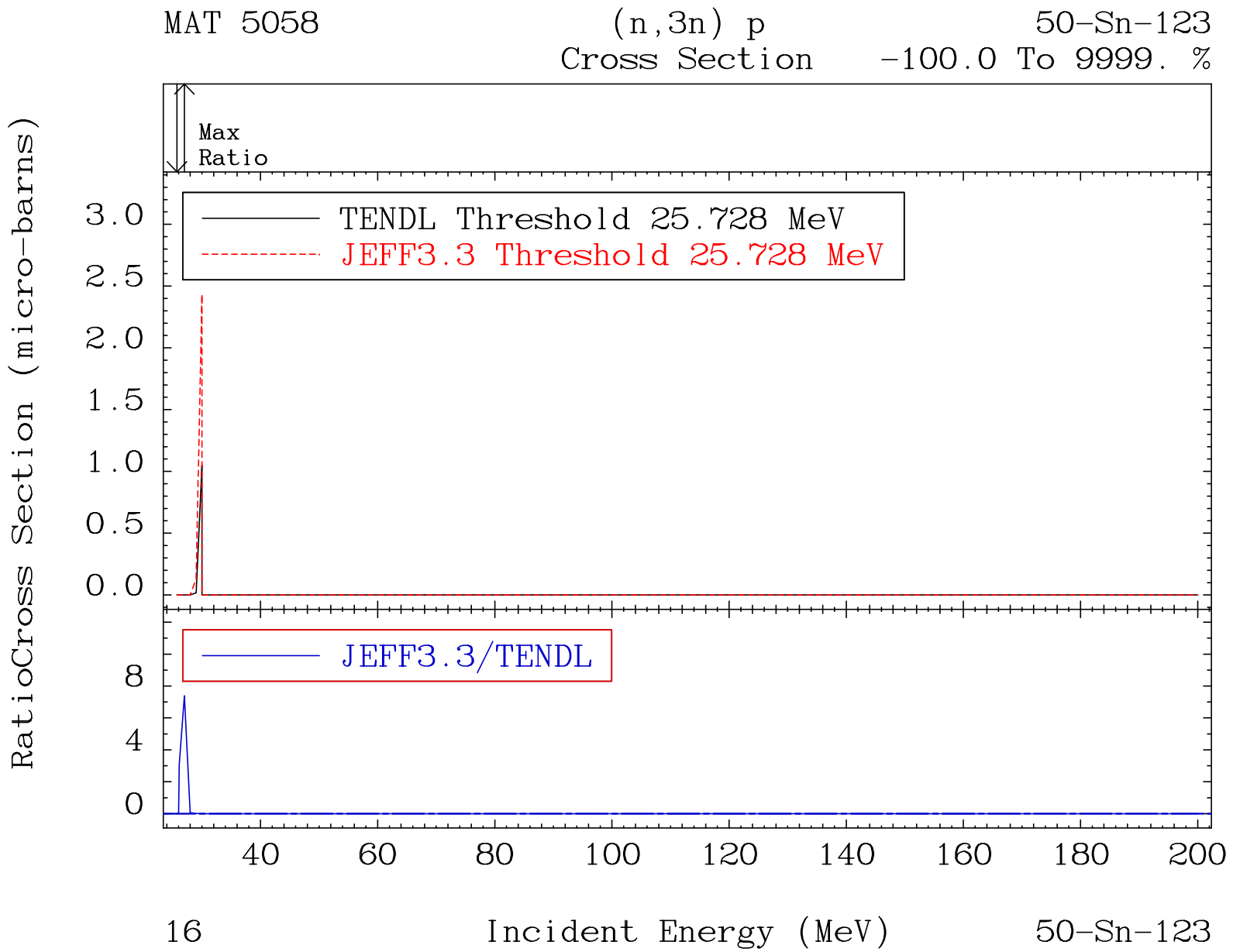

MAT 5058
(n,n') d
Cross Section
50-Sn-123
-100.0 To 223.6 %
Max
Ratio
TENDL Threshold 15.240 MeV
JEFF3.3 Threshold 15.240 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
6
4
2
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
50-Sn-123

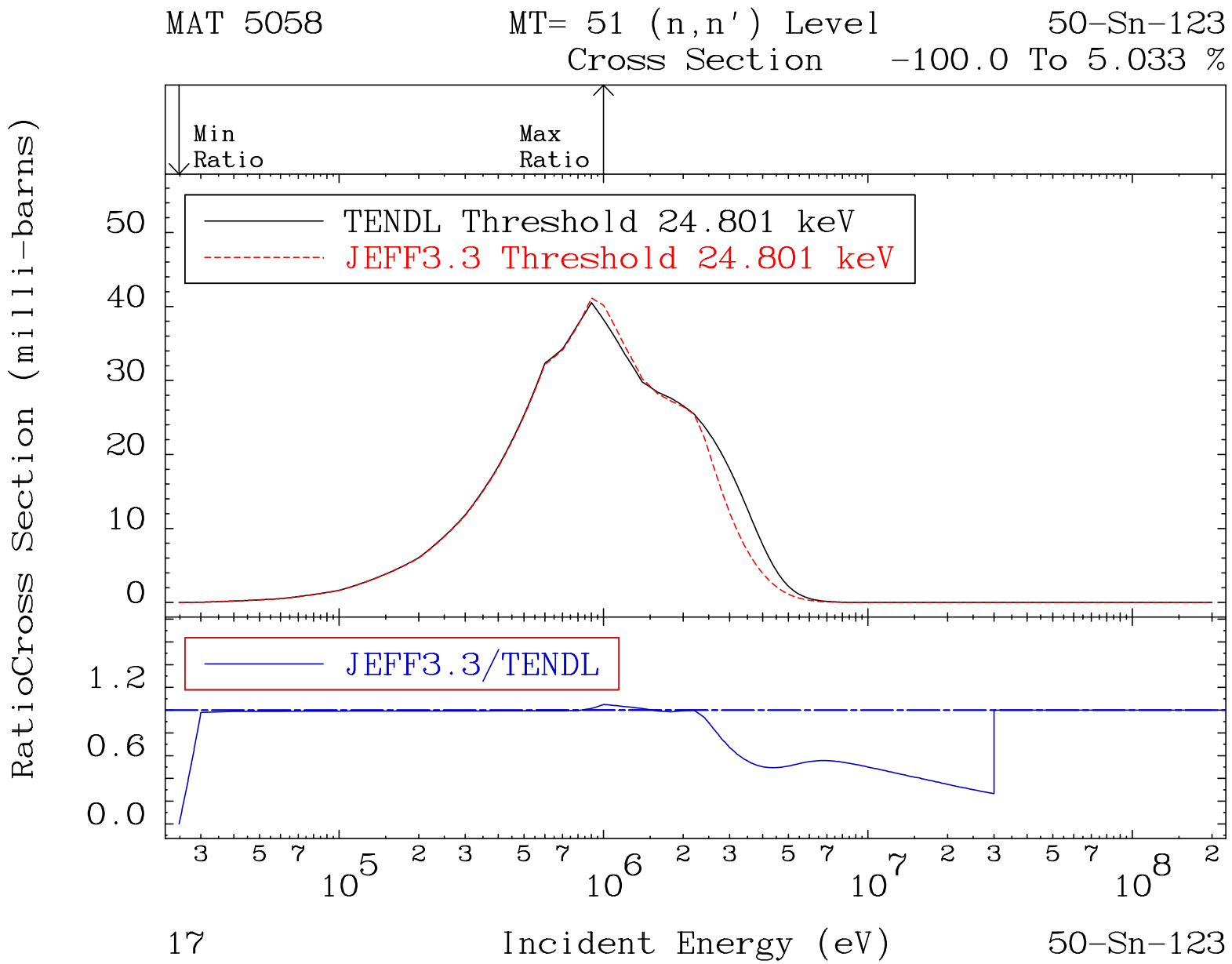

MAT 5058
(n,n') t
Cross Section
50-Sn-123
-100.0 To 1344. %
Max
Ratio
TENDL Threshold 17.177 MeV
JEFF3.3 Threshold 17.177 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
12
50-Sn-123

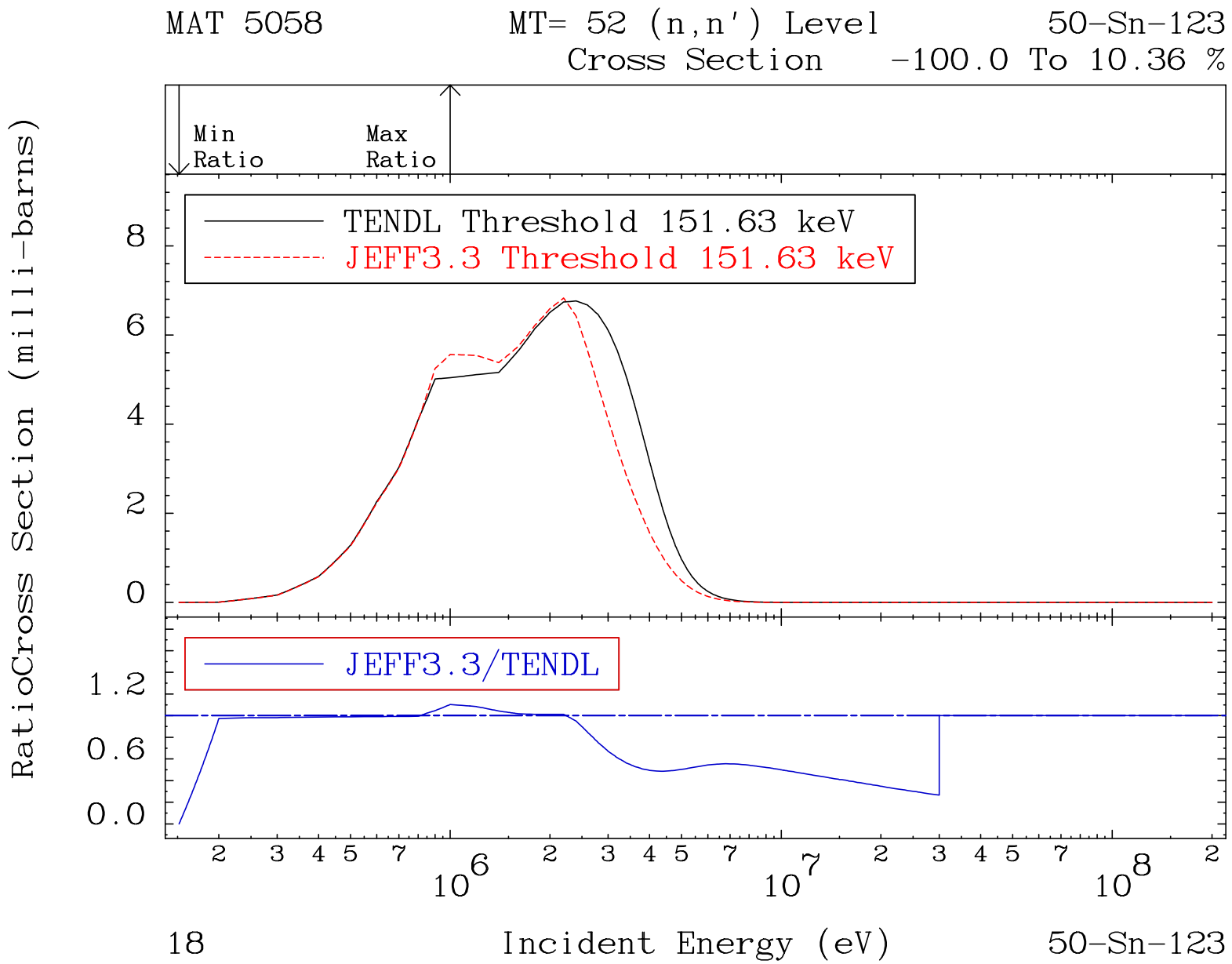

MAT 5058
(n,n') He-3
Cross Section
50-Sn-123
-100.0 To 1050. %
Max
Ratio
TENDL Threshold 18.943 MeV
JEFF3.3 Threshold 18.943 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
250
200
150
100
50
0
12
6
0
2
3
4
5
6
7
8
9
10^{8}
2
13
Incident Energy (eV)
50-Sn-123

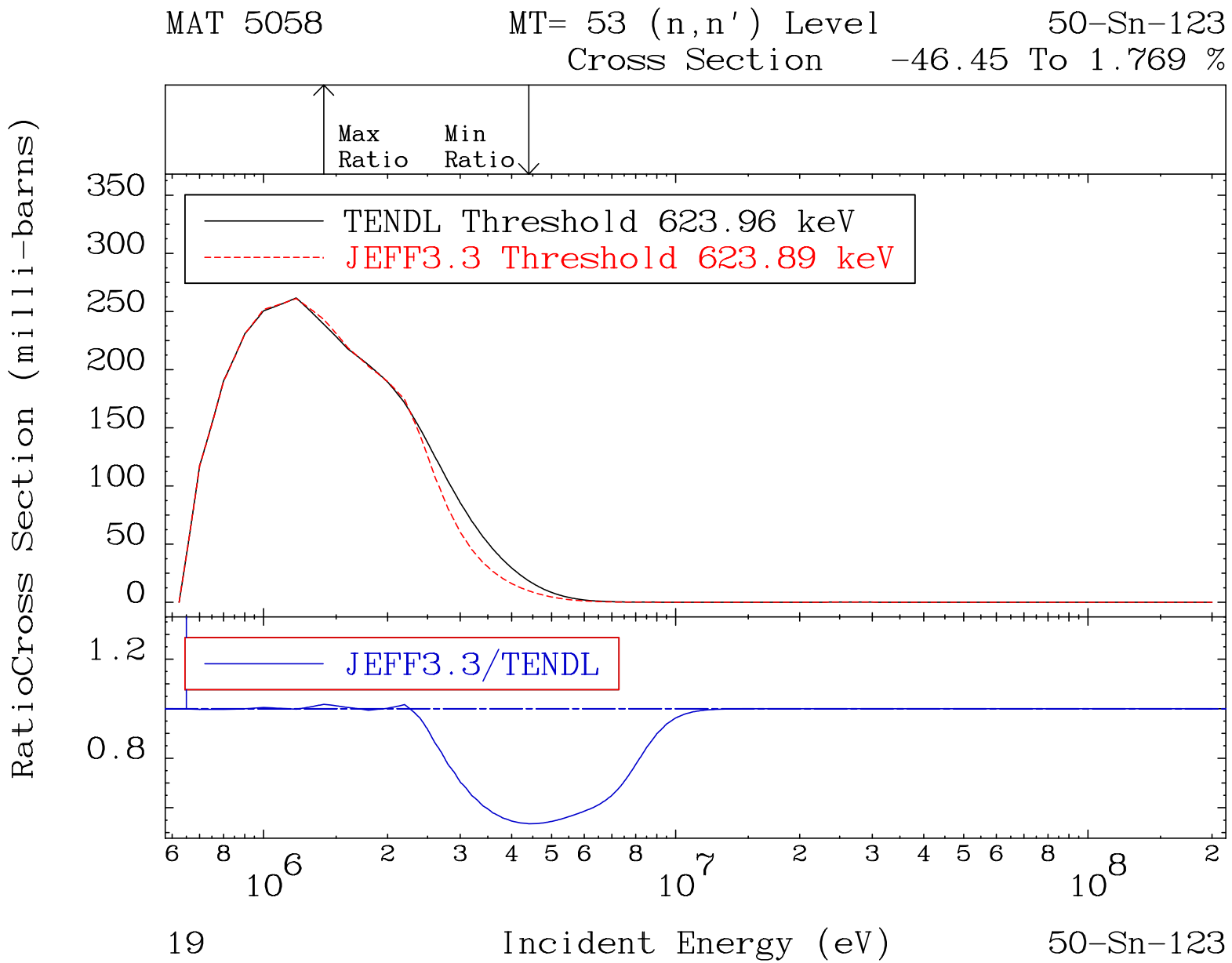

MAT 5058
(n,4n)
Cross Section
50-Sn-123
-100.0 To 460.5 %
Max
Ratio
TENDL Threshold 21.103 MeV
JEFF3.3 Threshold 21.103 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
8
4
0
20
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
50-Sn-123

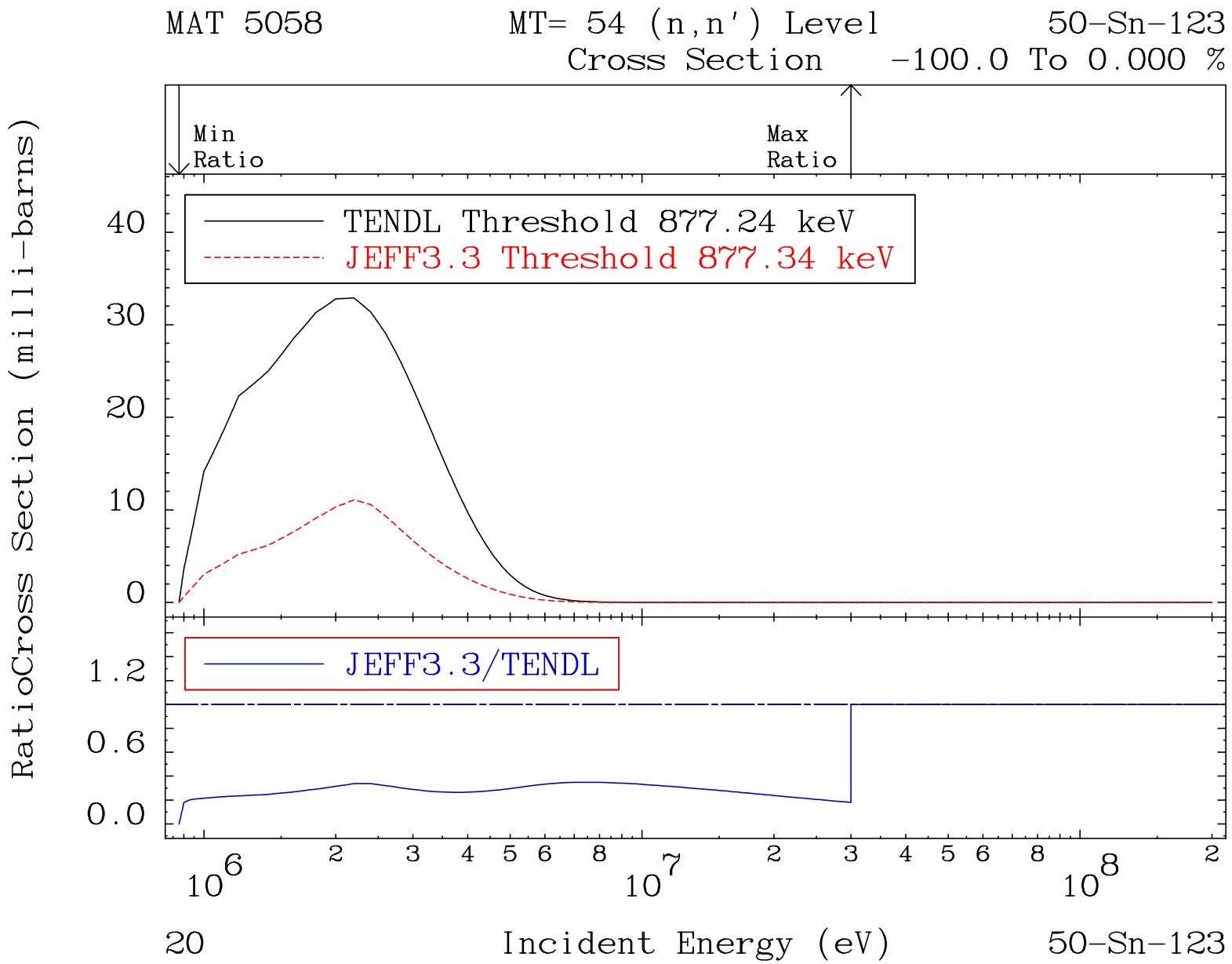

MAT 5058
(n,2n) p
Cross Section
50-Sn-123
-100.0 To 518.8 %
Max
Ratio
TENDL Threshold 17.483 MeV
JEFF3.3 Threshold 17.483 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
15
10
5
0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
50-Sn-123

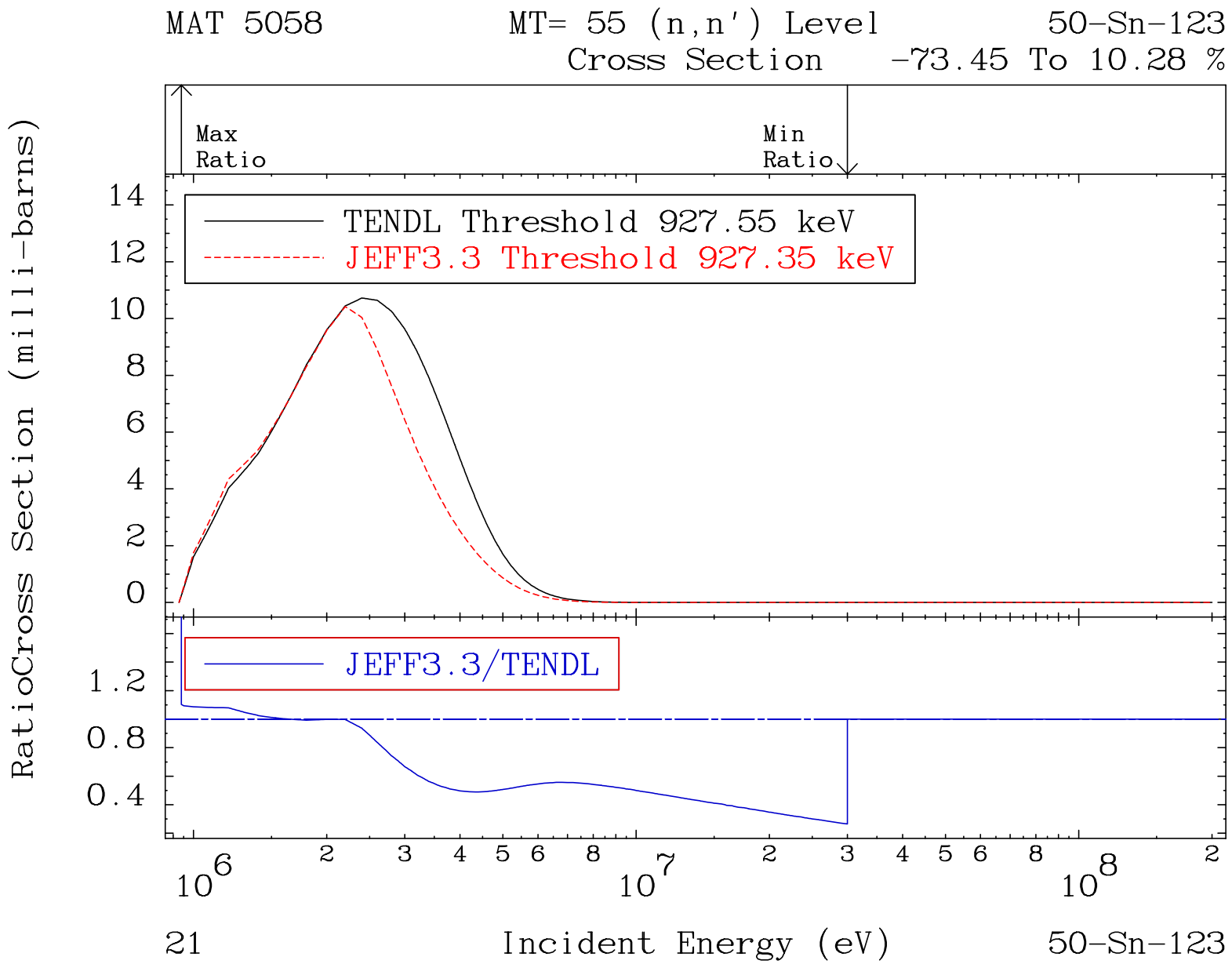

MAT 5058
(n,3n) p
Cross Section
50-Sn-123
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 25.728 MeV
JEFF3.3 Threshold 25.728 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
8
4
0
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
50-Sn-123

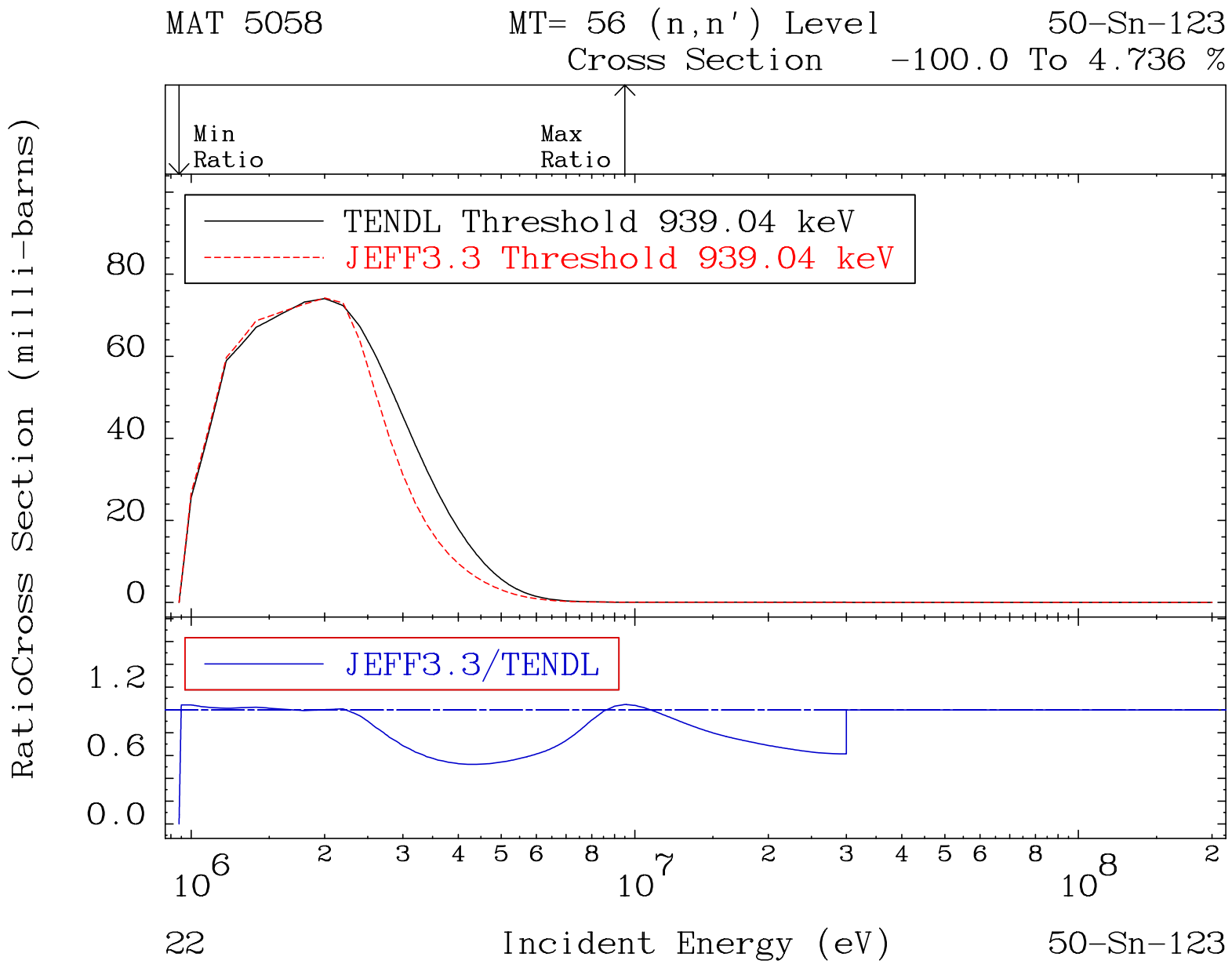

MAT 5058
MT= 51 (n,n') Level
50-Sn-123
Cross Section -100.0 To 5.033 %
Min Ratio
Max Ratio
TENDL Threshold 24.801 keV
JEFF3.3 Threshold 24.801 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.2
0.6
0.0
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
17
Incident Energy (eV)
50-Sn-123

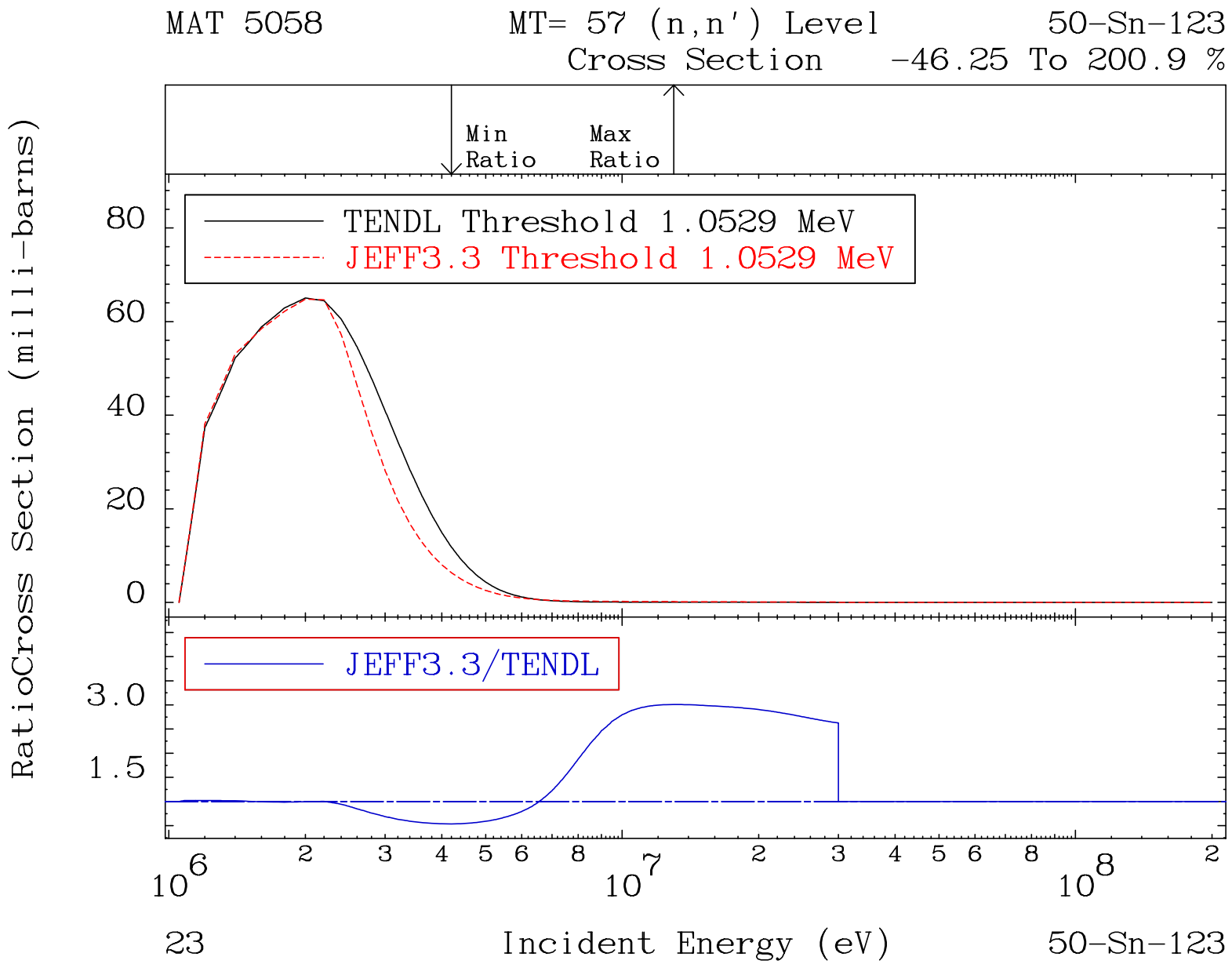

MAT 5058
MT= 52 (n,n') Level
50-Sn-123
Cross Section -100.0 To 10.36 %
Min Ratio
Max Ratio
TENDL Threshold 151.63 keV
JEFF3.3 Threshold 151.63 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
18
50-Sn-123

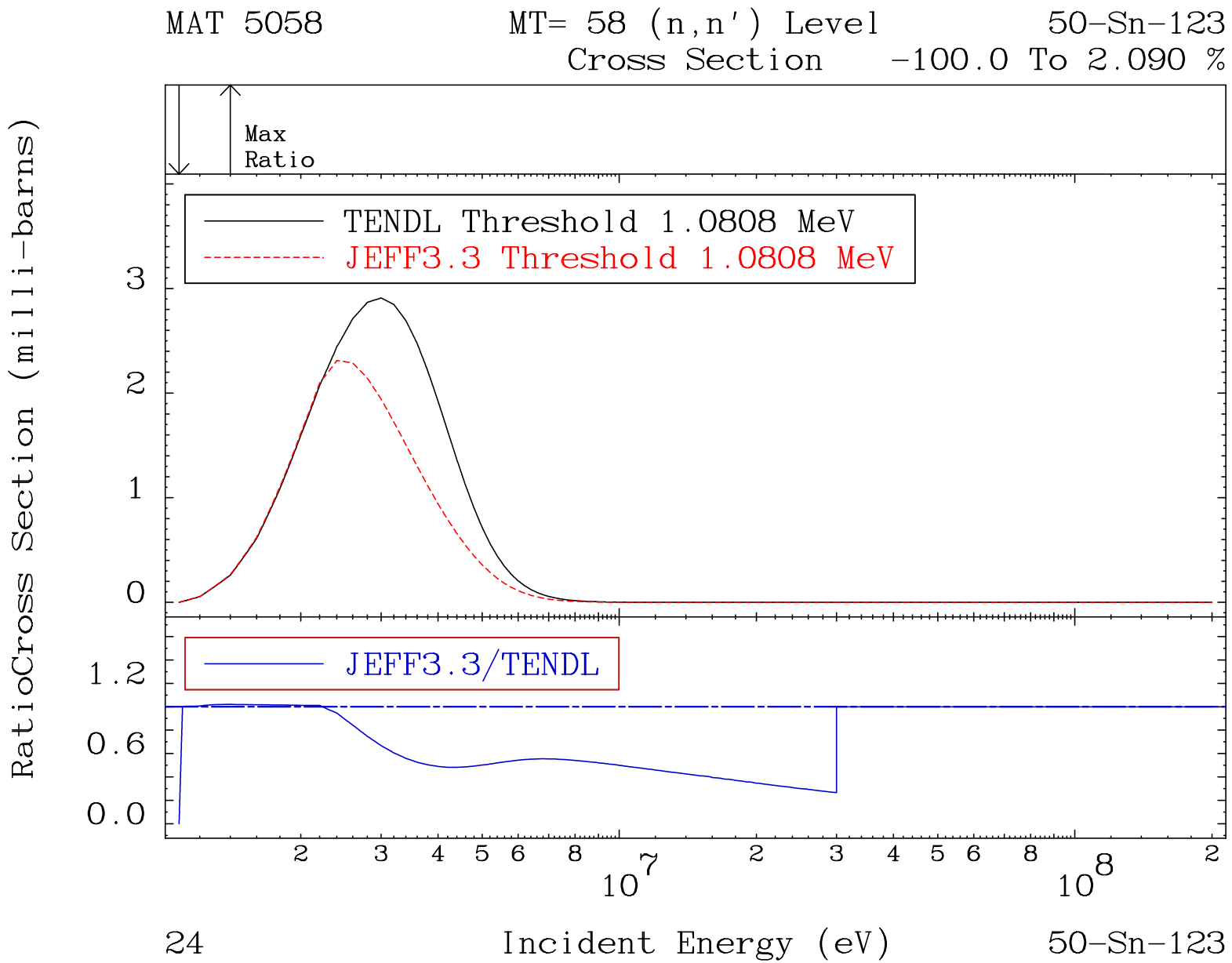

MAT 5058
MT= 53 (n,n') Level
50-Sn-123
Cross Section
-46.45 To 1.769 %
Max Ratio
Min Ratio
TENDL Threshold 623.96 keV
JEFF3.3 Threshold 623.89 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
1.2
0.8
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
50-Sn-123

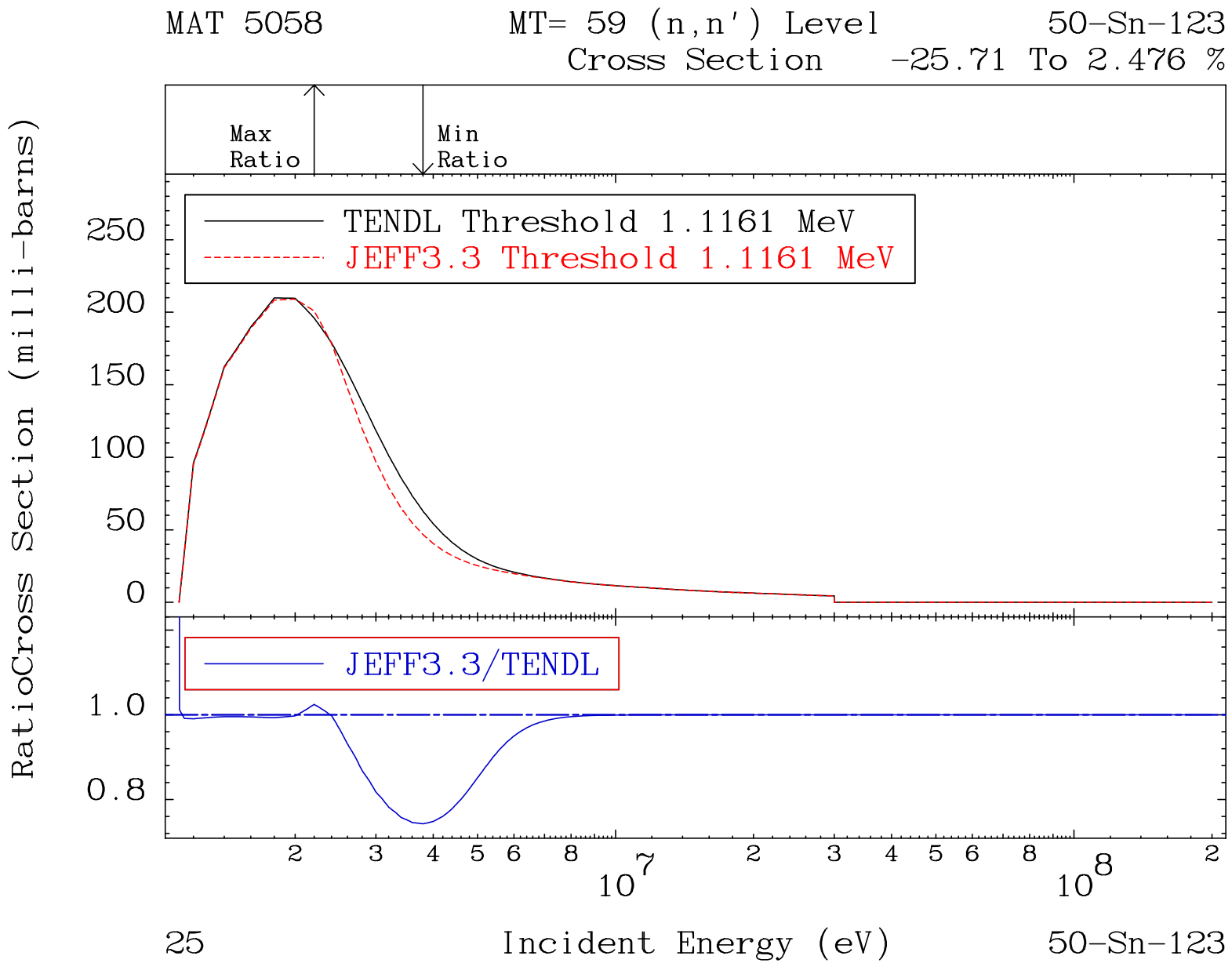

MAT 5058
MT= 54 (n,n') Level
50-Sn-123
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 877.24 keV
JEFF3.3 Threshold 877.34 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
20
Incident Energy (eV)
50-Sn-123

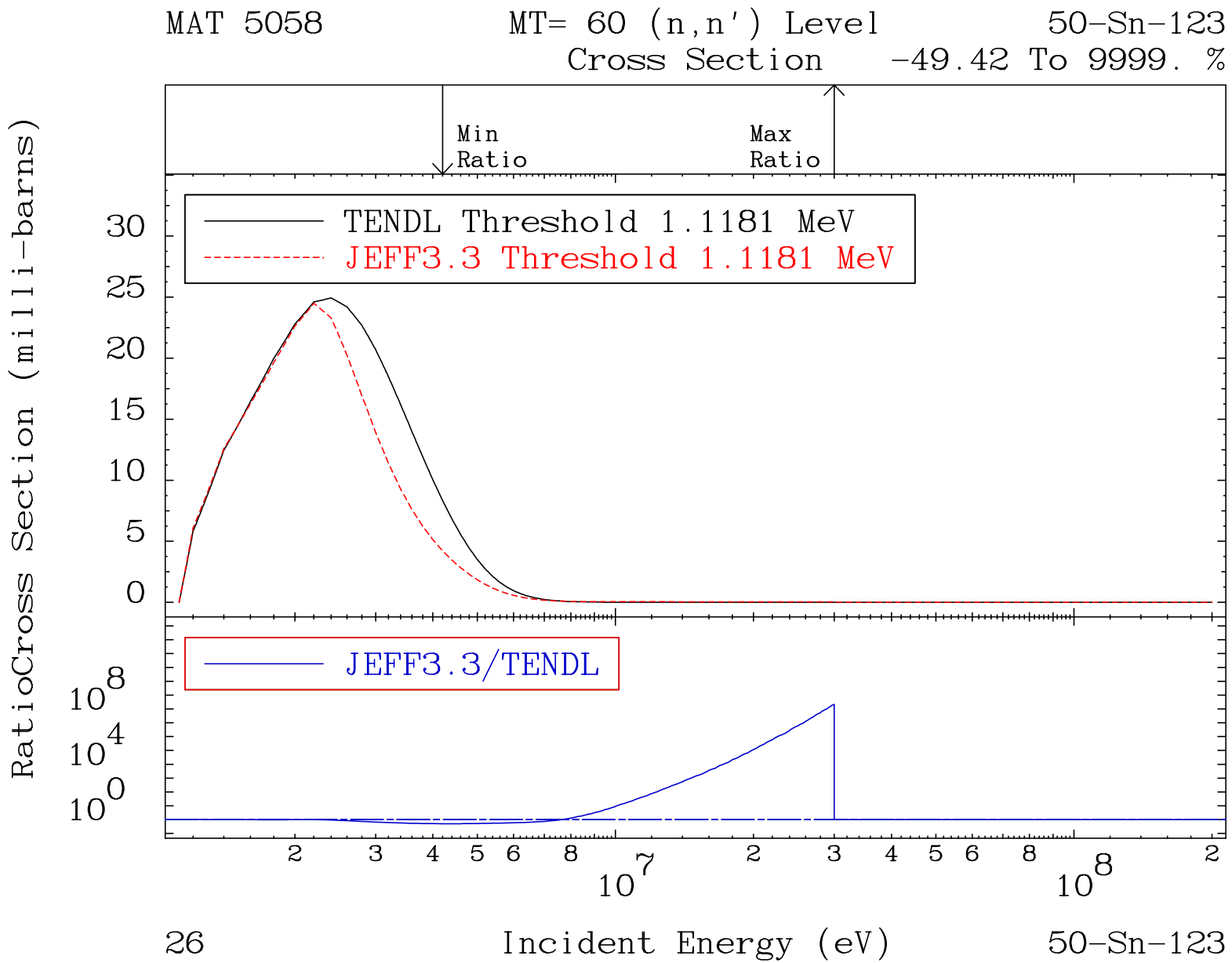

MAT 5058
MT= 55 (n,n') Level
50-Sn-123
Cross Section
-73.45 To 10.28 %
Max Ratio
Min Ratio
TENDL Threshold 927.55 keV
JEFF3.3 Threshold 927.35 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
21
50-Sn-123

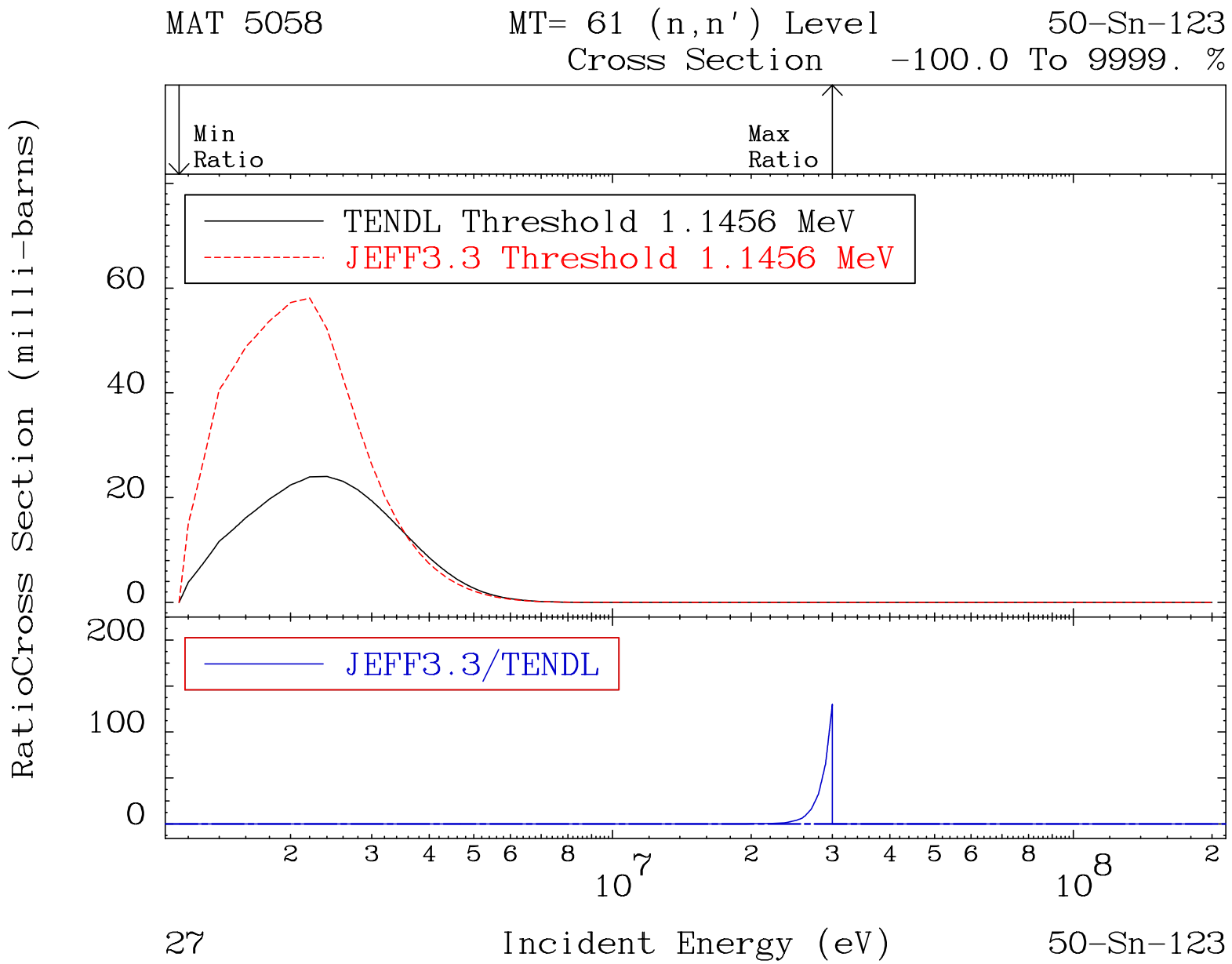

MAT 5058
MT= 56 (n,n') Level
50-Sn-123
Cross Section
-100.0 To 4.736 %
Min Ratio
Max Ratio
TENDL Threshold 939.04 keV
JEFF3.3 Threshold 939.04 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.6
0.0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
22
Incident Energy (eV)
50-Sn-123

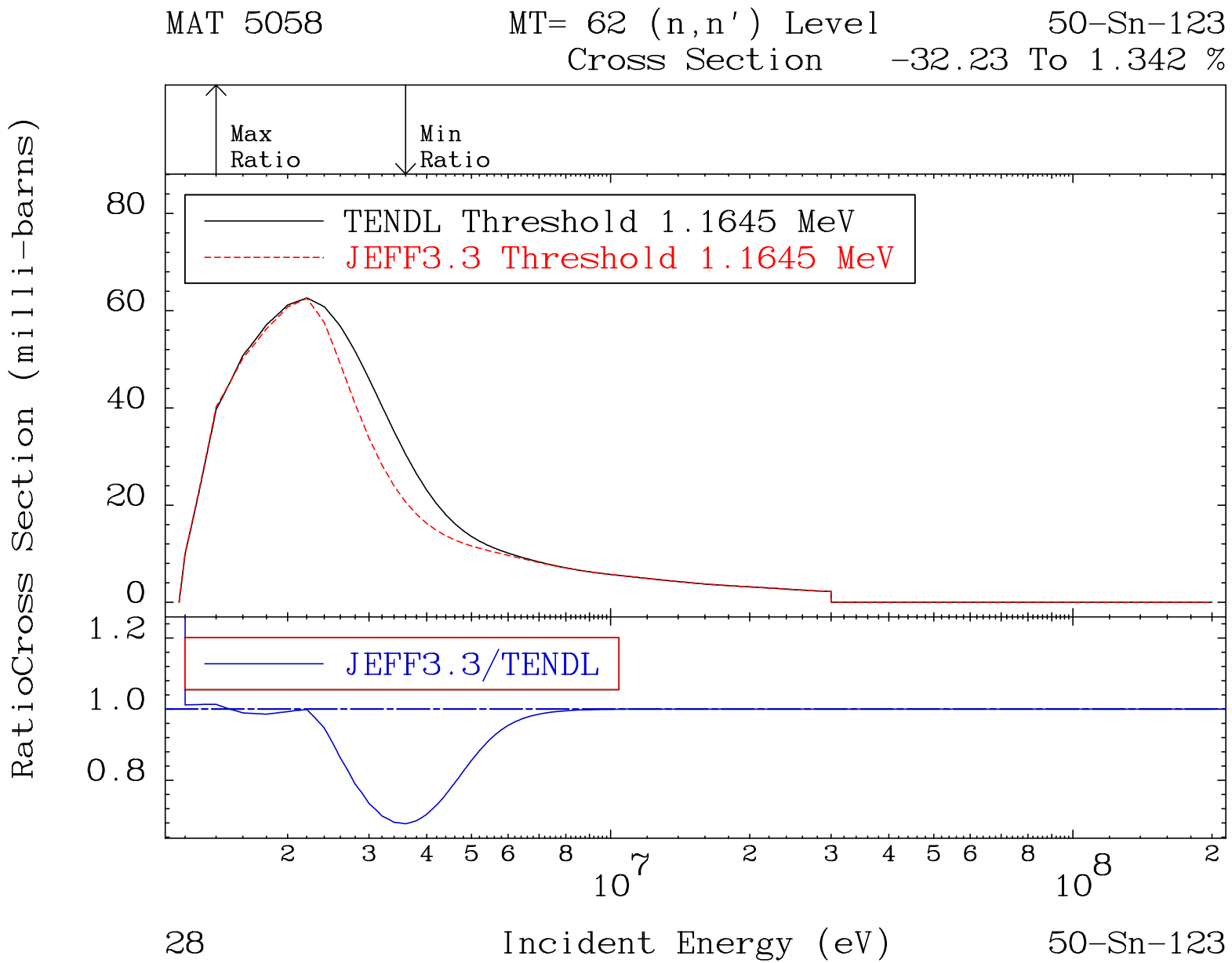

MAT 5058
MT= 57 (n,n') Level
50-Sn-123
Cross Section
-46.25 To 200.9 %
Min Ratio
Max Ratio
TENDL Threshold 1.0529 MeV
JEFF3.3 Threshold 1.0529 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
3.0
1.5
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
23
Incident Energy (eV)
50-Sn-123

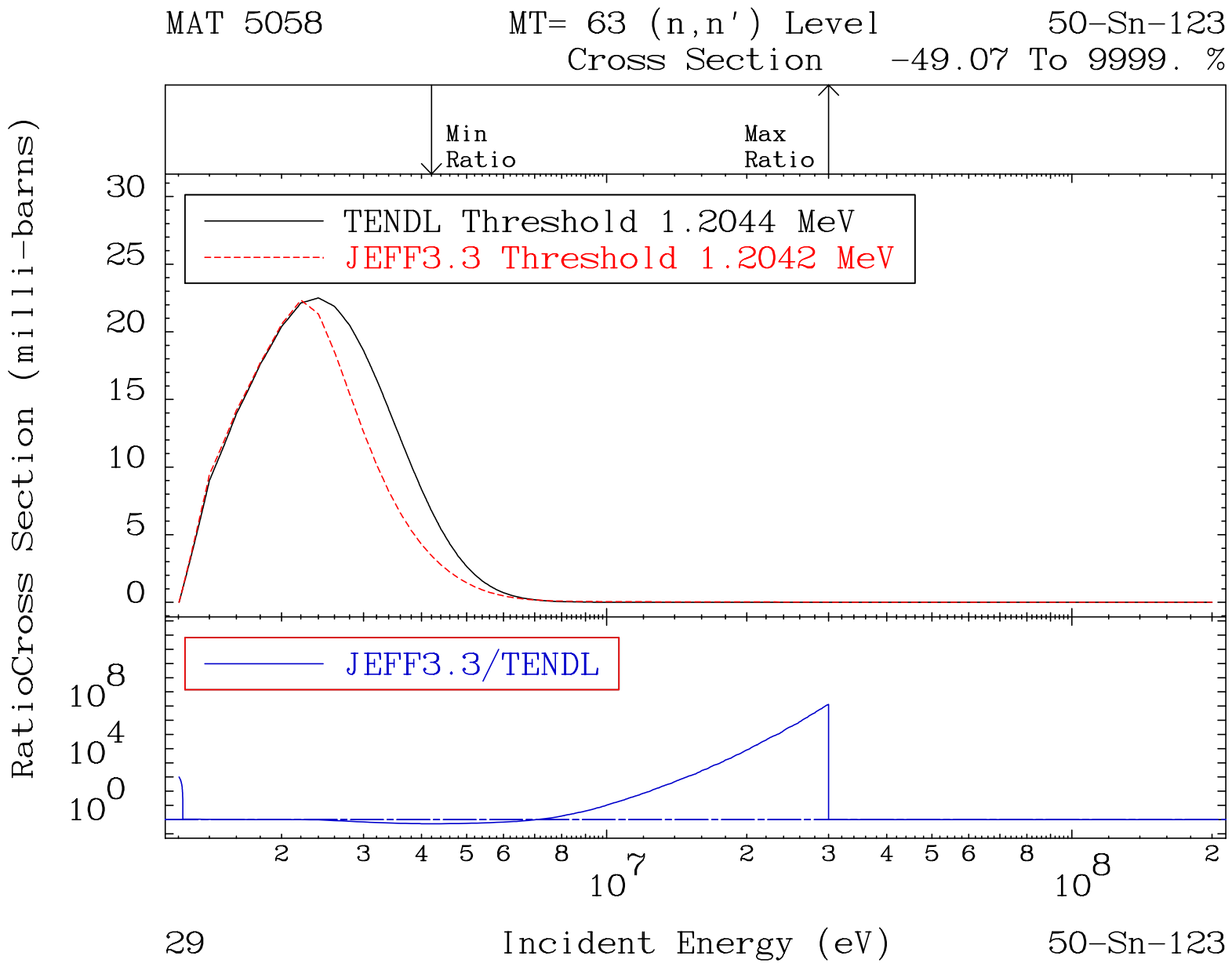

MAT 5058
MT= 58 (n,n') Level
50-Sn-123
Cross Section
-100.0 To 2.090 %
Max
Ratio
TENDL Threshold 1.0808 MeV
JEFF3.3 Threshold 1.0808 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
24
50-Sn-123

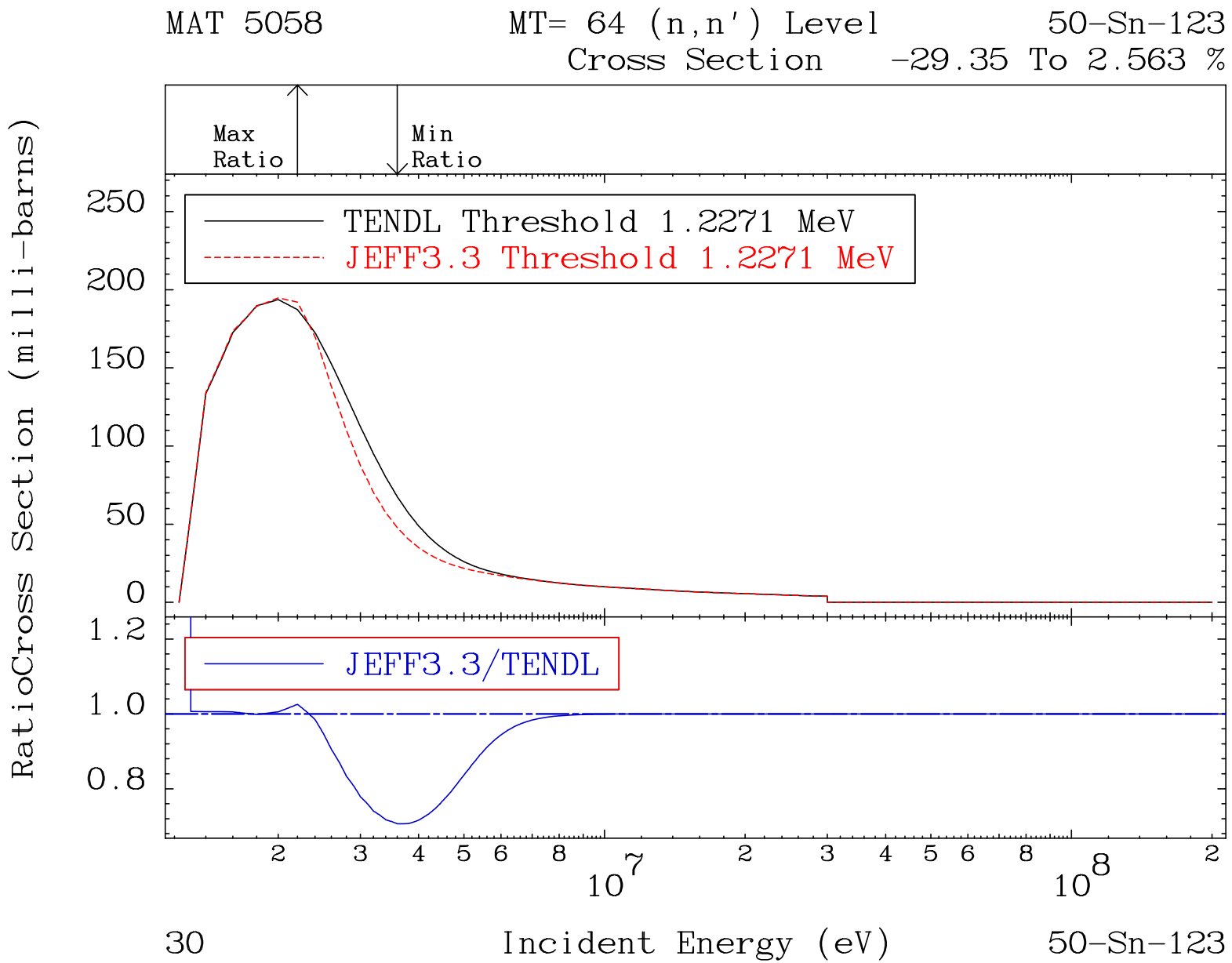

MAT 5058
MT= 59 (n,n') Level
50-Sn-123
Cross Section
-25.71 To 2.476 %
Max Ratio
Min Ratio
TENDL Threshold 1.1161 MeV
JEFF3.3 Threshold 1.1161 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.0
0.8
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
25
Incident Energy (eV)
50-Sn-123

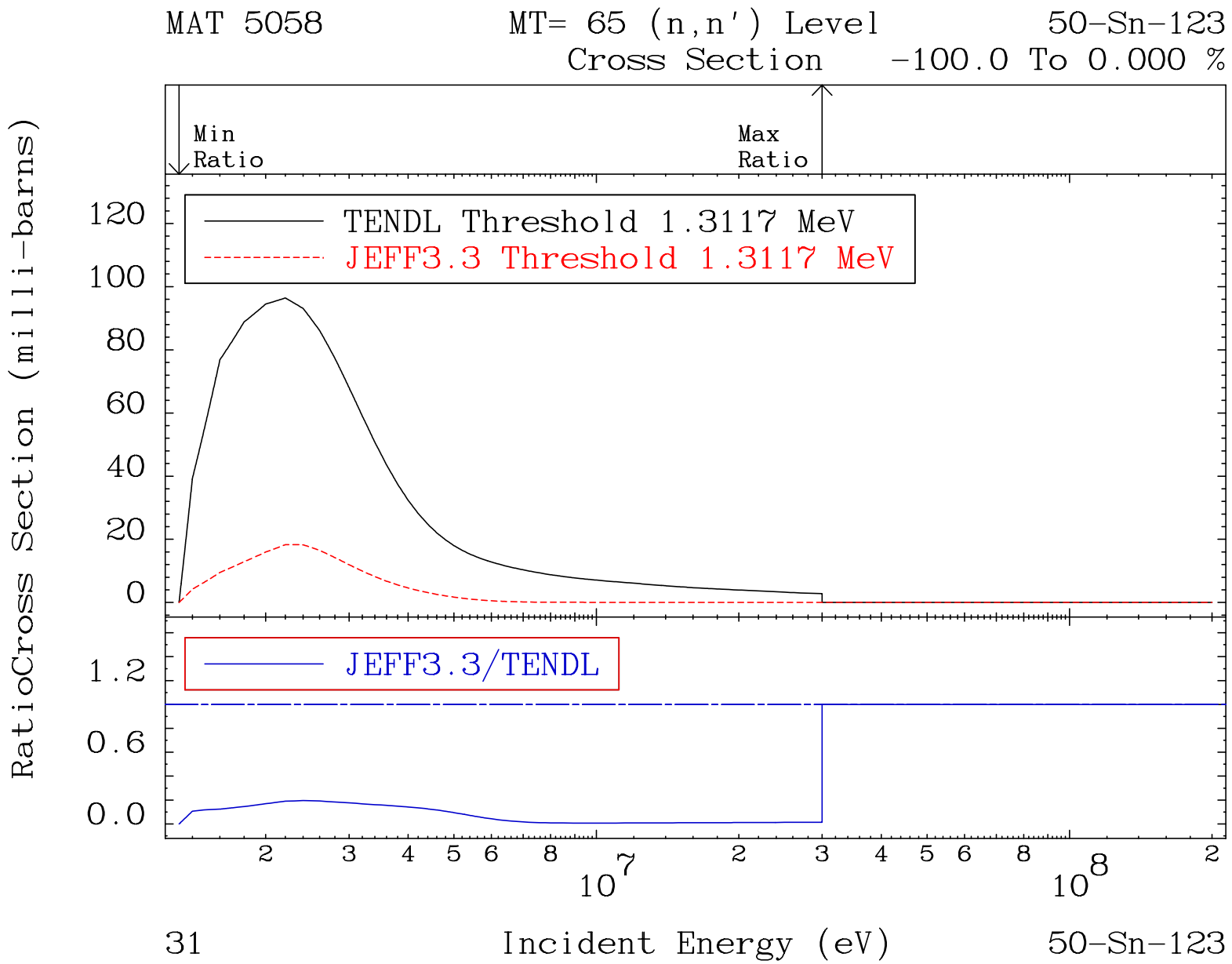

MAT 5058
MT= 60 (n,n') Level
50-Sn-123
Cross Section -49.42 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1181 MeV
JEFF3.3 Threshold 1.1181 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
10^8
10^4
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
26
Incident Energy (eV)
50-Sn-123

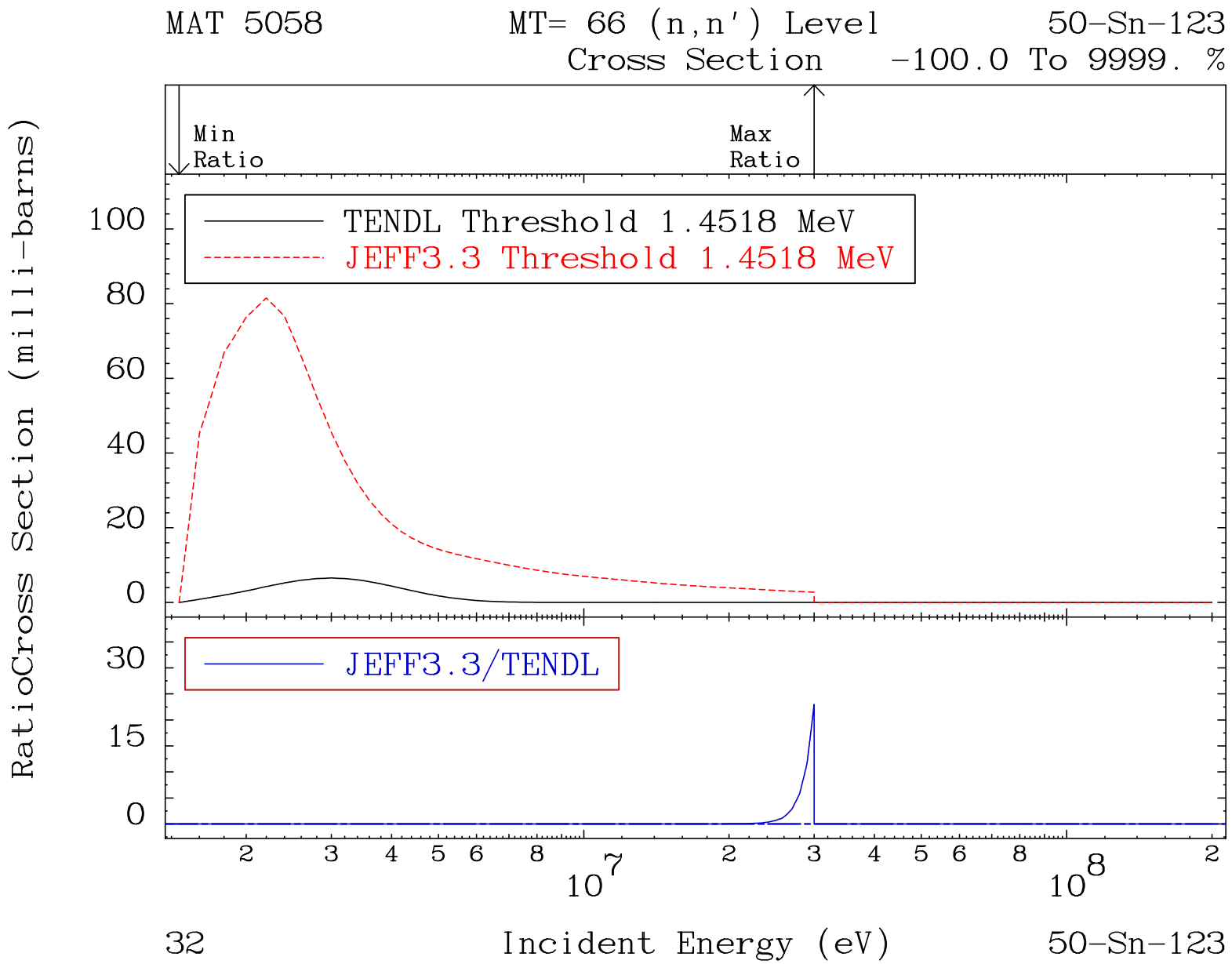

MAT 5058
MT= 61 (n,n') Level
50-Sn-123
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1456 MeV
JEFF3.3 Threshold 1.1456 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
40
20
0
200
100
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
27
Incident Energy (eV)
50-Sn-123

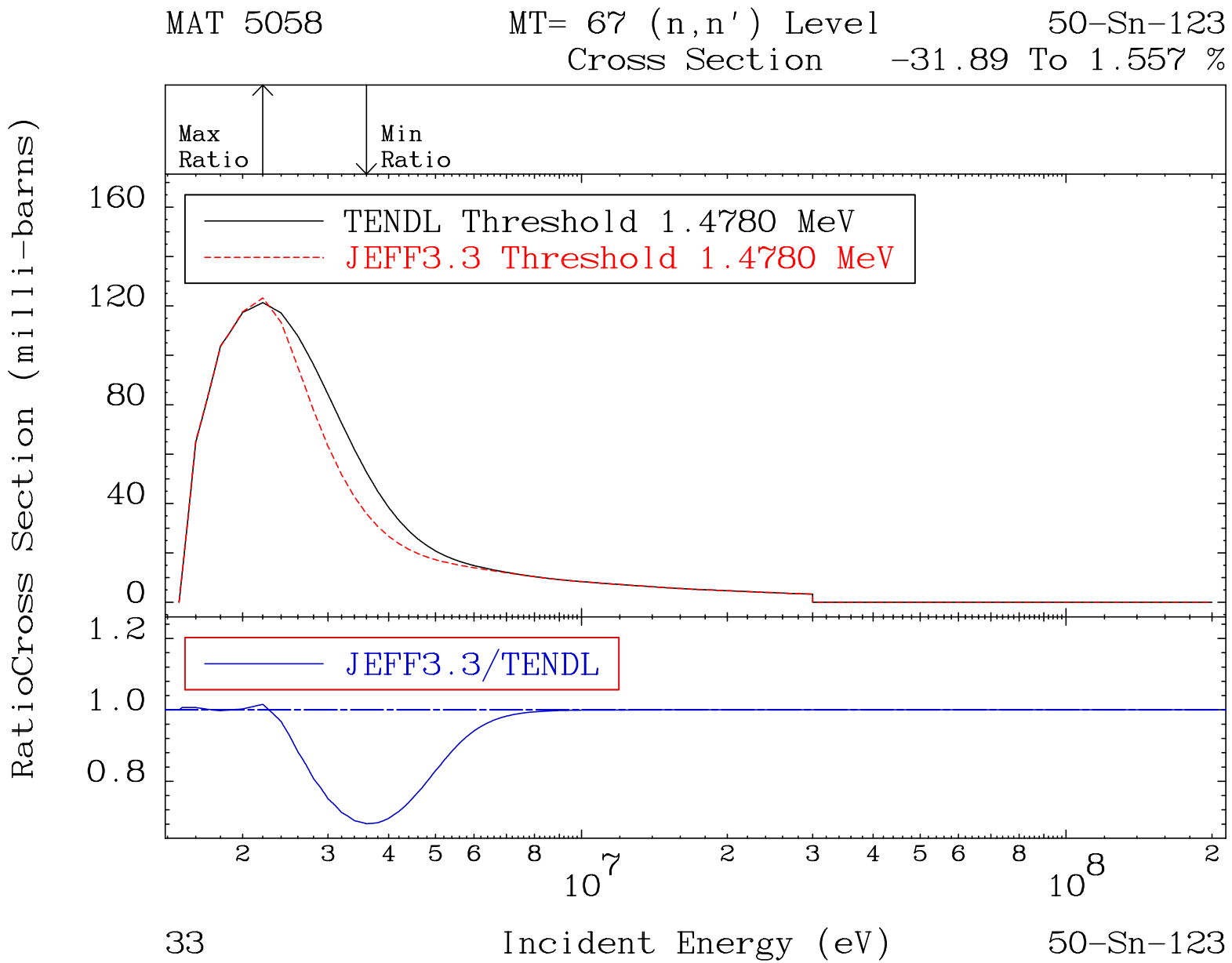

MAT 5058
MT= 62 (n,n') Level
50-Sn-123
Cross Section -32.23 To 1.342 %
Max Ratio
Min Ratio
TENDL Threshold 1.1645 MeV
JEFF3.3 Threshold 1.1645 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
1.0
0.8
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
28
Incident Energy (eV)
50-Sn-123

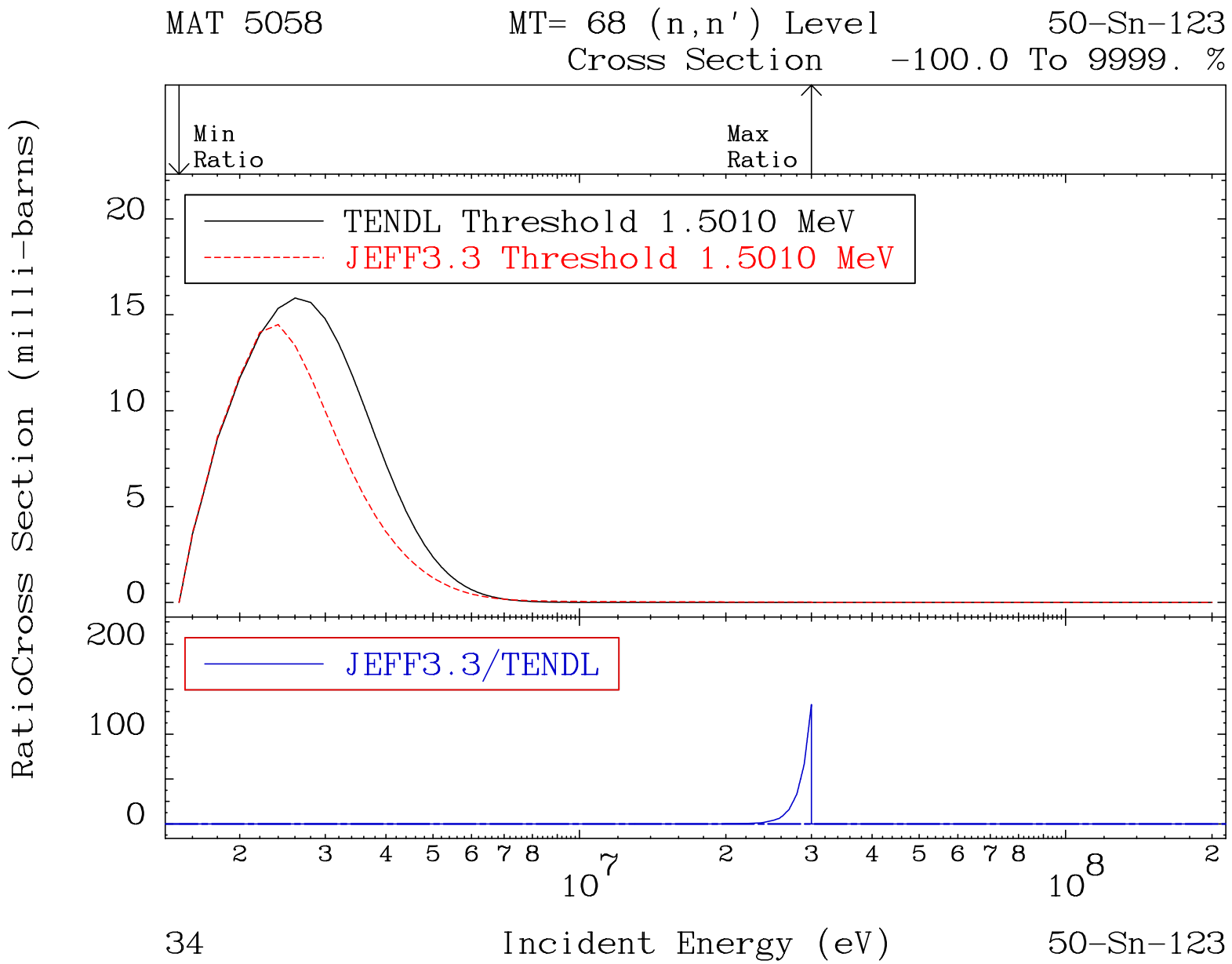

MAT 5058
MT= 63 (n,n') Level
50-Sn-123
Cross Section -49.07 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2044 MeV
JEFF3.3 Threshold 1.2042 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
29
50-Sn-123

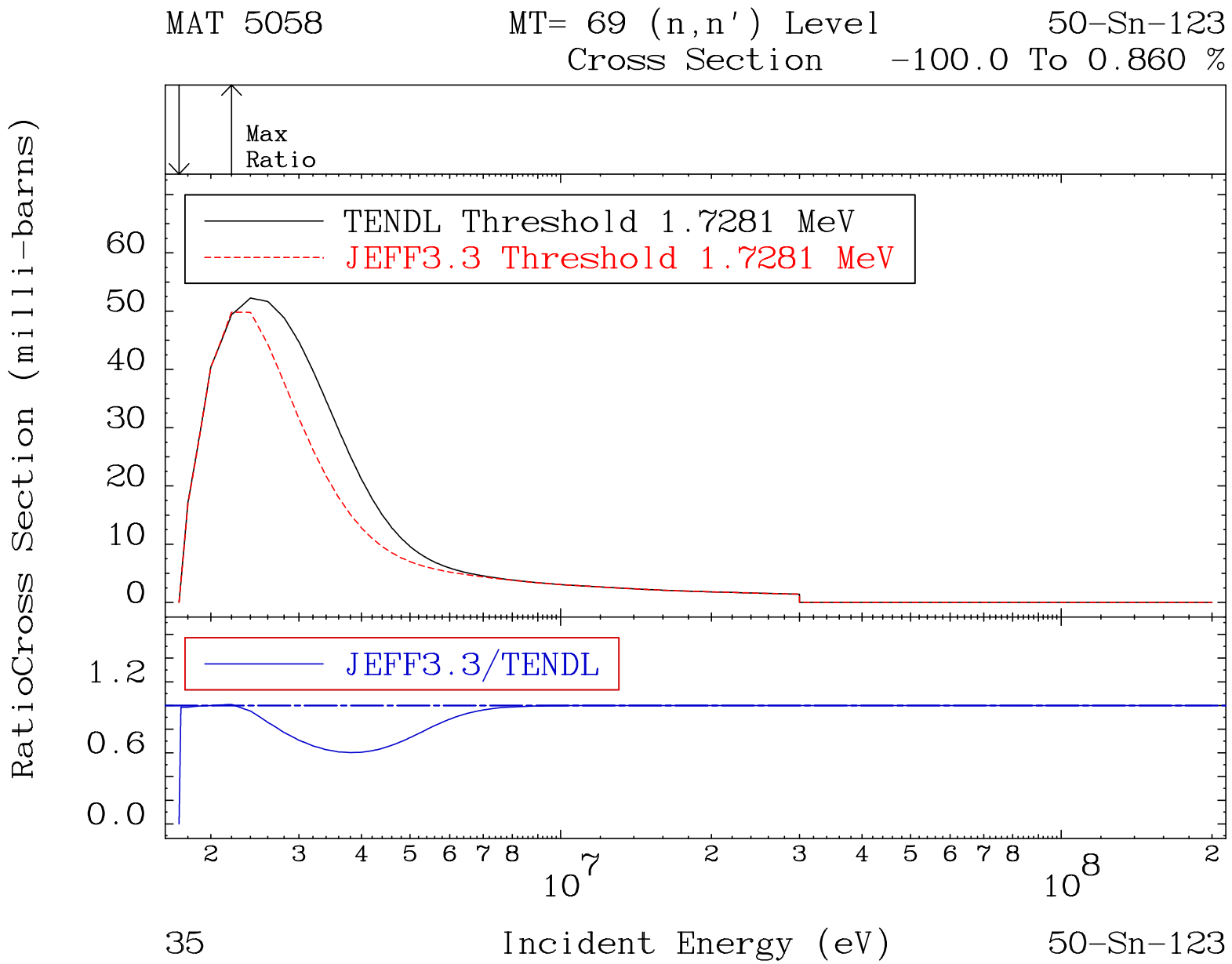

MAT 5058
MT= 64 (n,n') Level
50-Sn-123
Cross Section
-29.35 To 2.563 %
Max Ratio
Min Ratio
TENDL Threshold 1.2271 MeV
JEFF3.3 Threshold 1.2271 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
1.0
0.8
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
30
Incident Energy (eV)
50-Sn-123

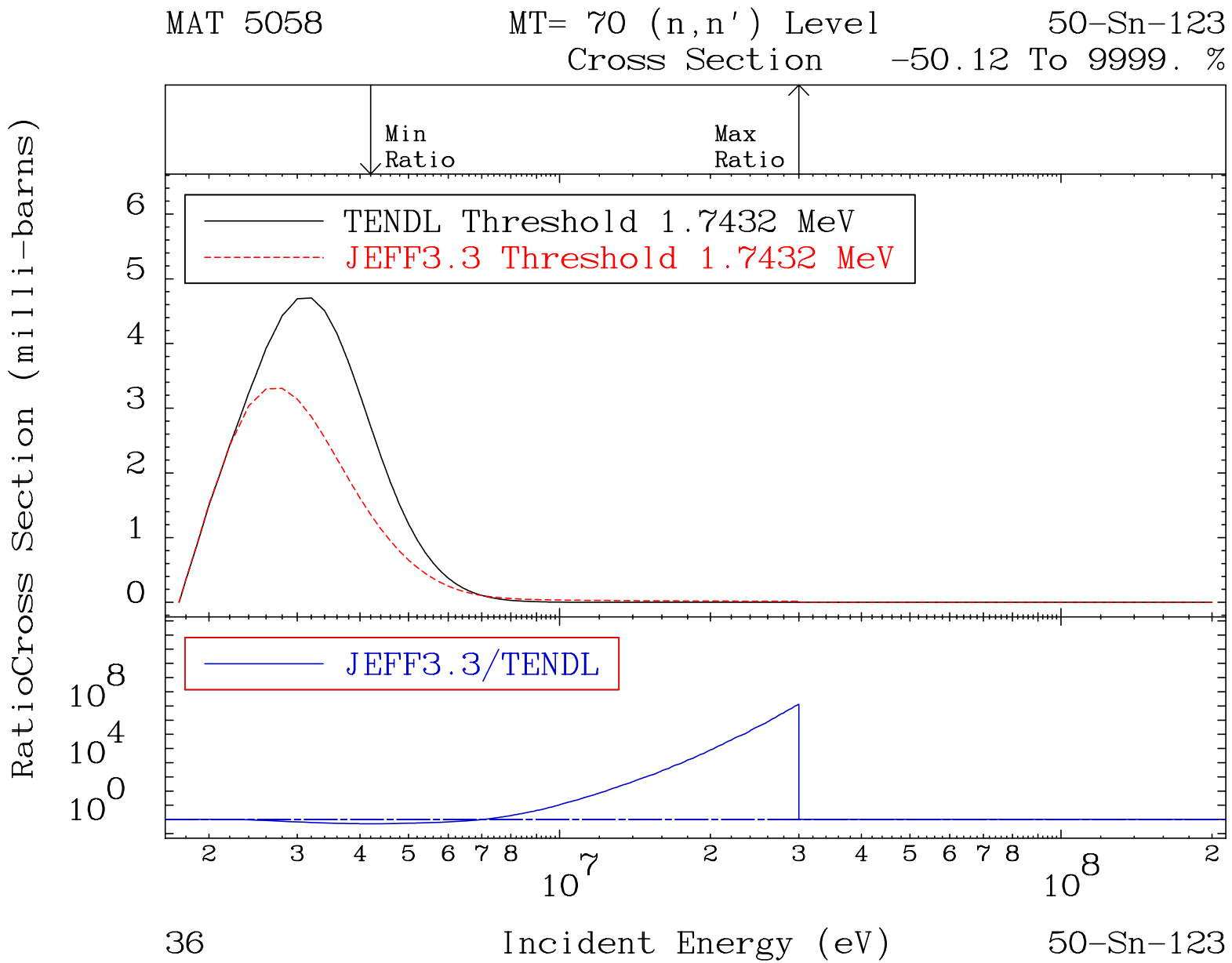

MAT 5058
MT= 65 (n,n') Level
50-Sn-123
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.3117 MeV
JEFF3.3 Threshold 1.3117 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
31
Incident Energy (eV)
50-Sn-123

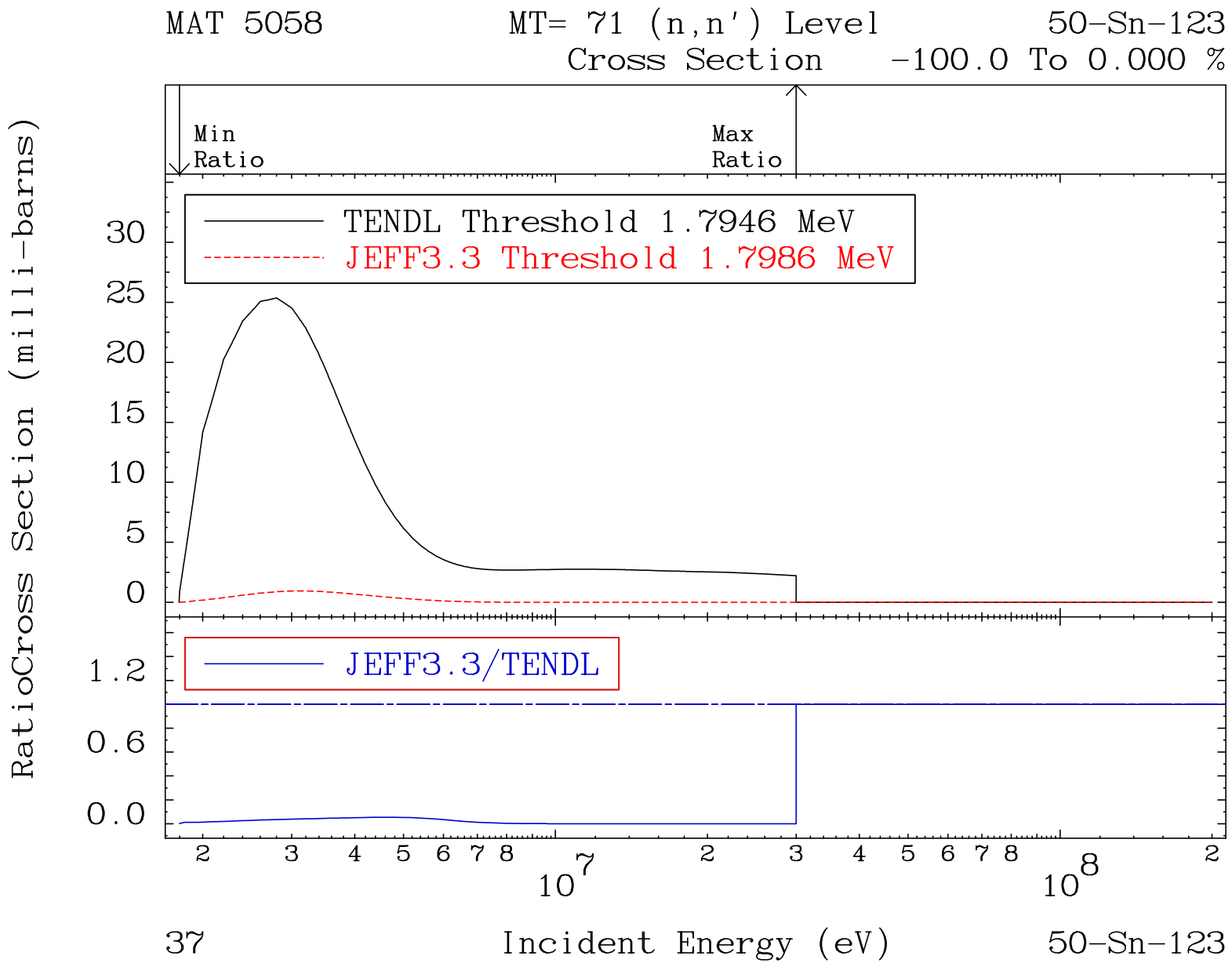

MAT 5058
MT= 66 (n,n') Level
50-Sn-123
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.4518 MeV
JEFF3.3 Threshold 1.4518 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
30
15
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
32
Incident Energy (eV)
50-Sn-123

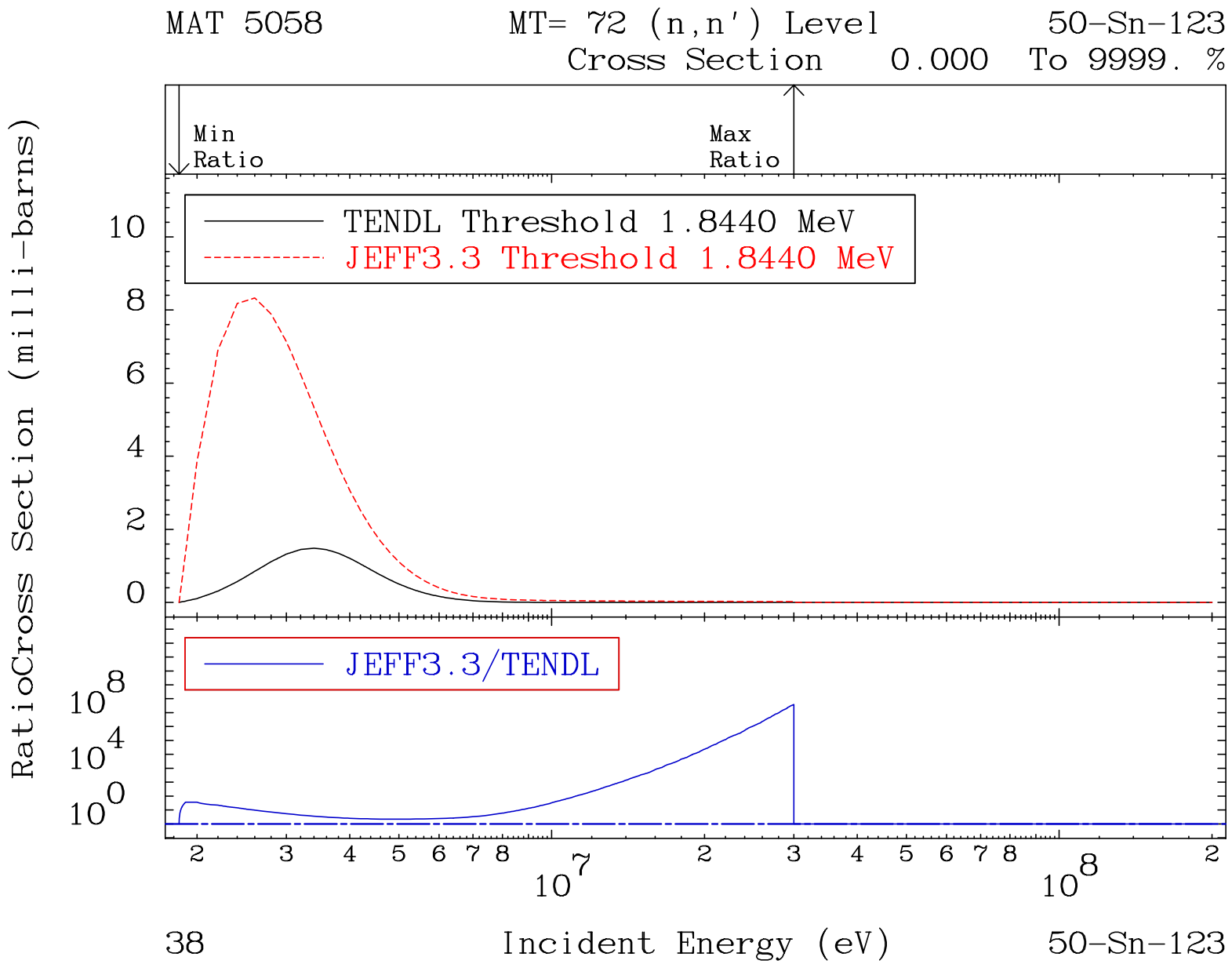

MAT 5058
MT= 67 (n,n') Level
50-Sn-123
Cross Section -31.89 To 1.557 %
Max Ratio
Min Ratio
TENDL Threshold 1.4780 MeV
JEFF3.3 Threshold 1.4780 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
1.0
0.8
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
33
Incident Energy (eV)
50-Sn-123

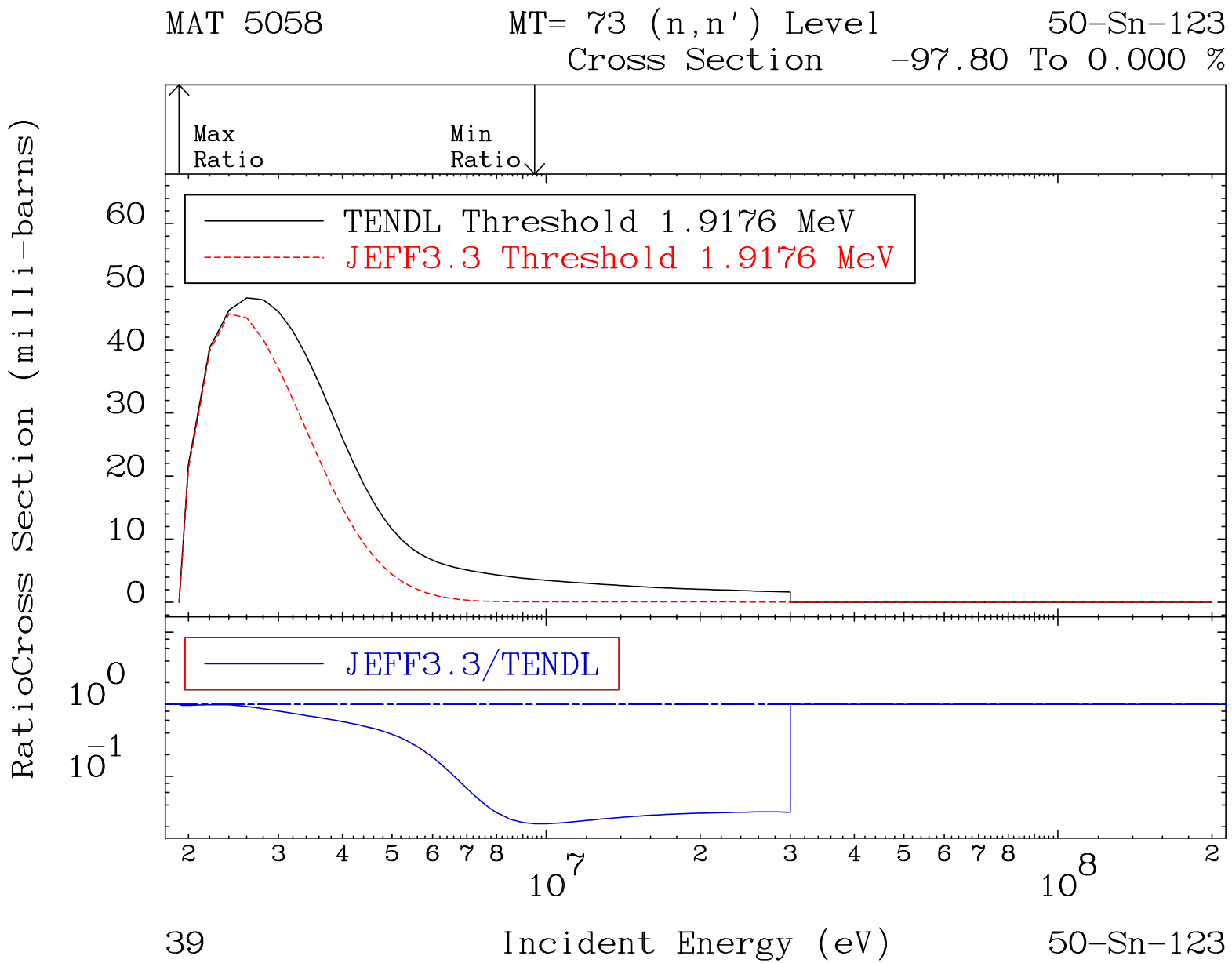

MAT 5058
MT= 68 (n,n') Level
50-Sn-123
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5010 MeV
JEFF3.3 Threshold 1.5010 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
200
100
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
50-Sn-123

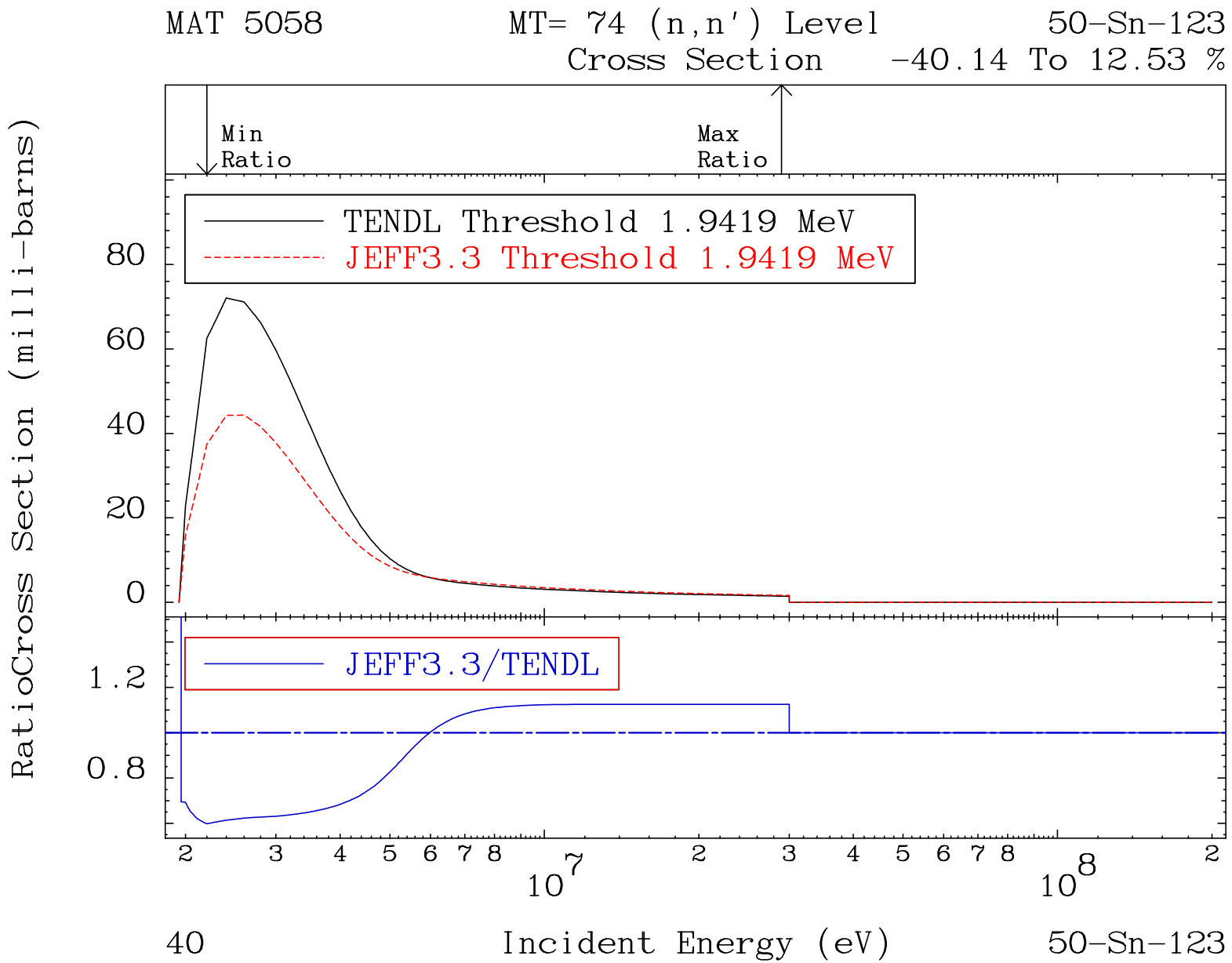

MAT 5058
MT= 69 (n,n') Level
50-Sn-123
Cross Section
-100.0 To 0.860 %
Max
Ratio
TENDL Threshold 1.7281 MeV
JEFF3.3 Threshold 1.7281 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
50-Sn-123

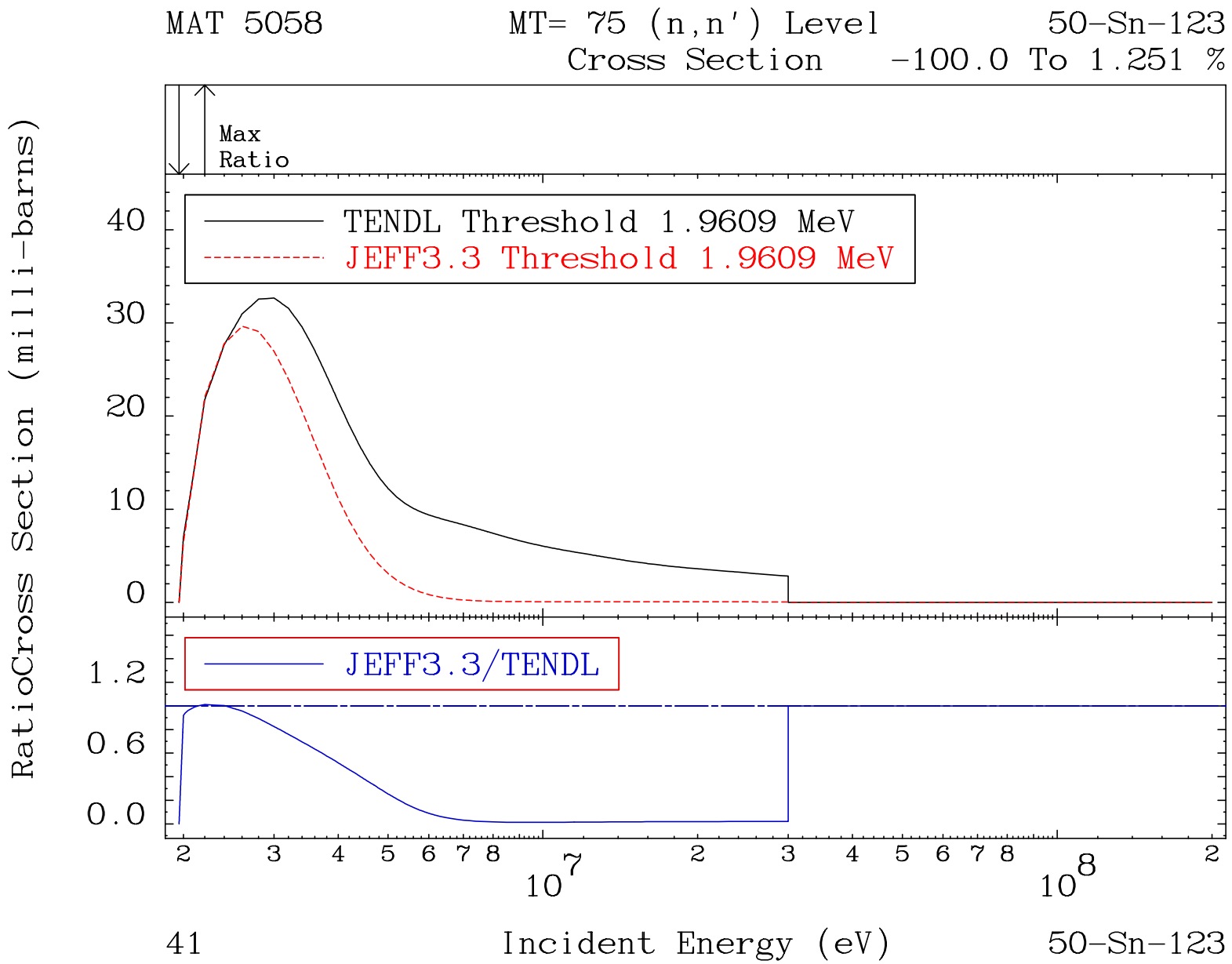

MAT 5058
MT= 70 (n,n') Level
50-Sn-123
Cross Section -50.12 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7432 MeV
JEFF3.3 Threshold 1.7432 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
36
50-Sn-123

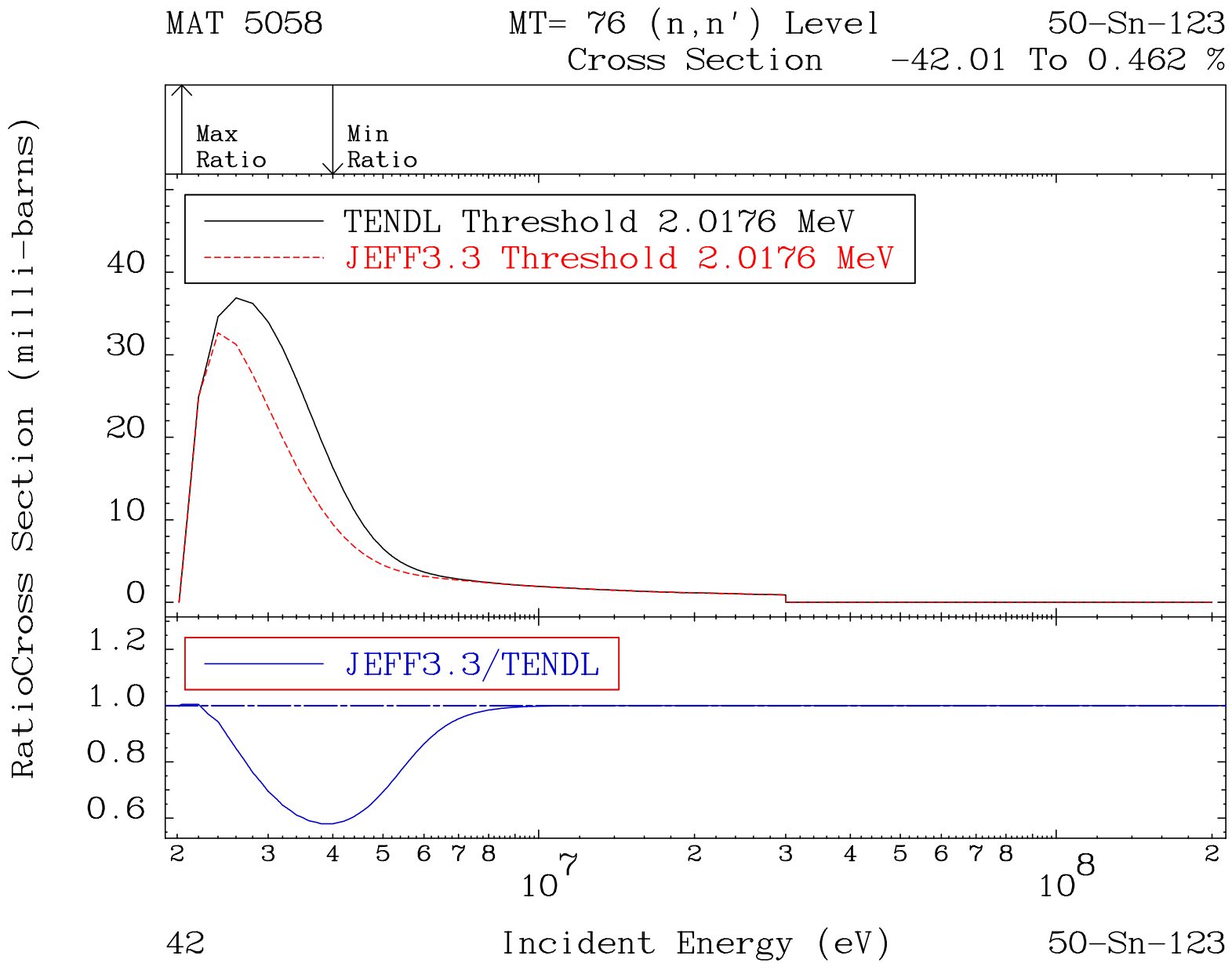

MAT 5058
MT= 71 (n,n') Level
50-Sn-123
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.7946 MeV
JEFF3.3 Threshold 1.7986 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
50-Sn-123

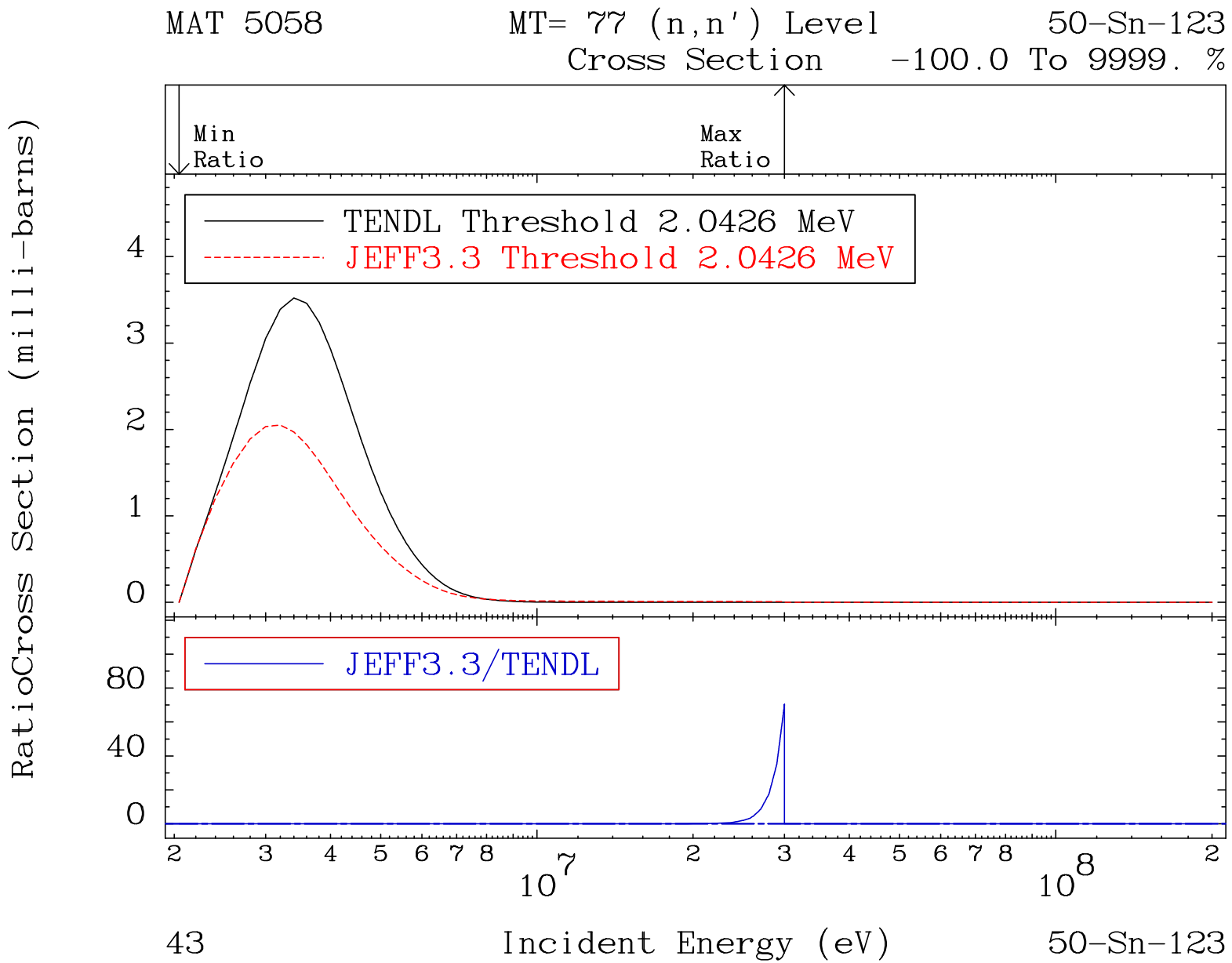

MAT 5058
MT= 72 (n,n') Level
50-Sn-123
Cross Section 0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8440 MeV
JEFF3.3 Threshold 1.8440 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
38
50-Sn-123

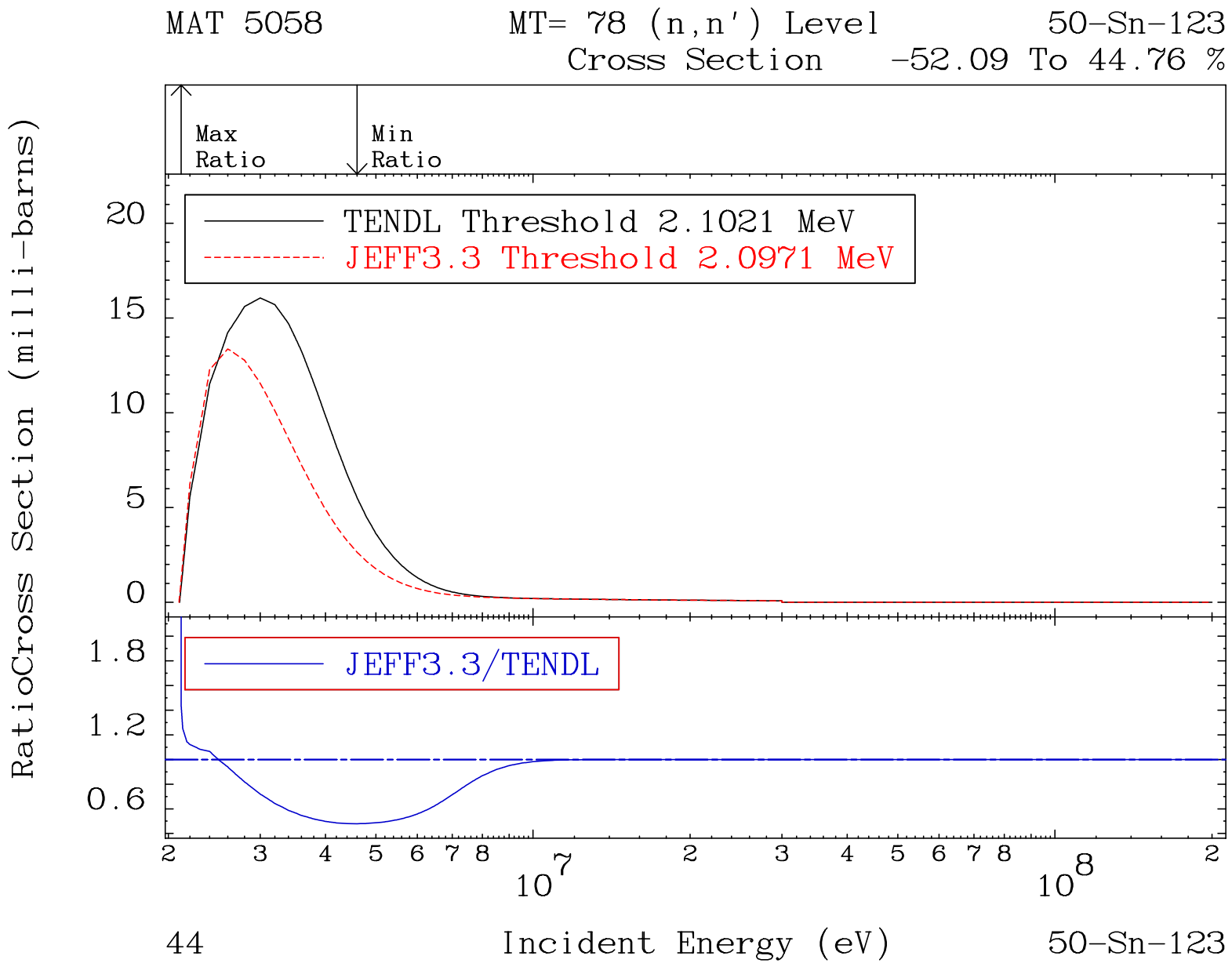

MAT 5058
MT= 73 (n,n') Level
50-Sn-123
Cross Section -97.80 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 1.9176 MeV
JEFF3.3 Threshold 1.9176 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
10^{0}
10^{-1}
2 3 4 5 6 7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
39
Incident Energy (eV)
50-Sn-123

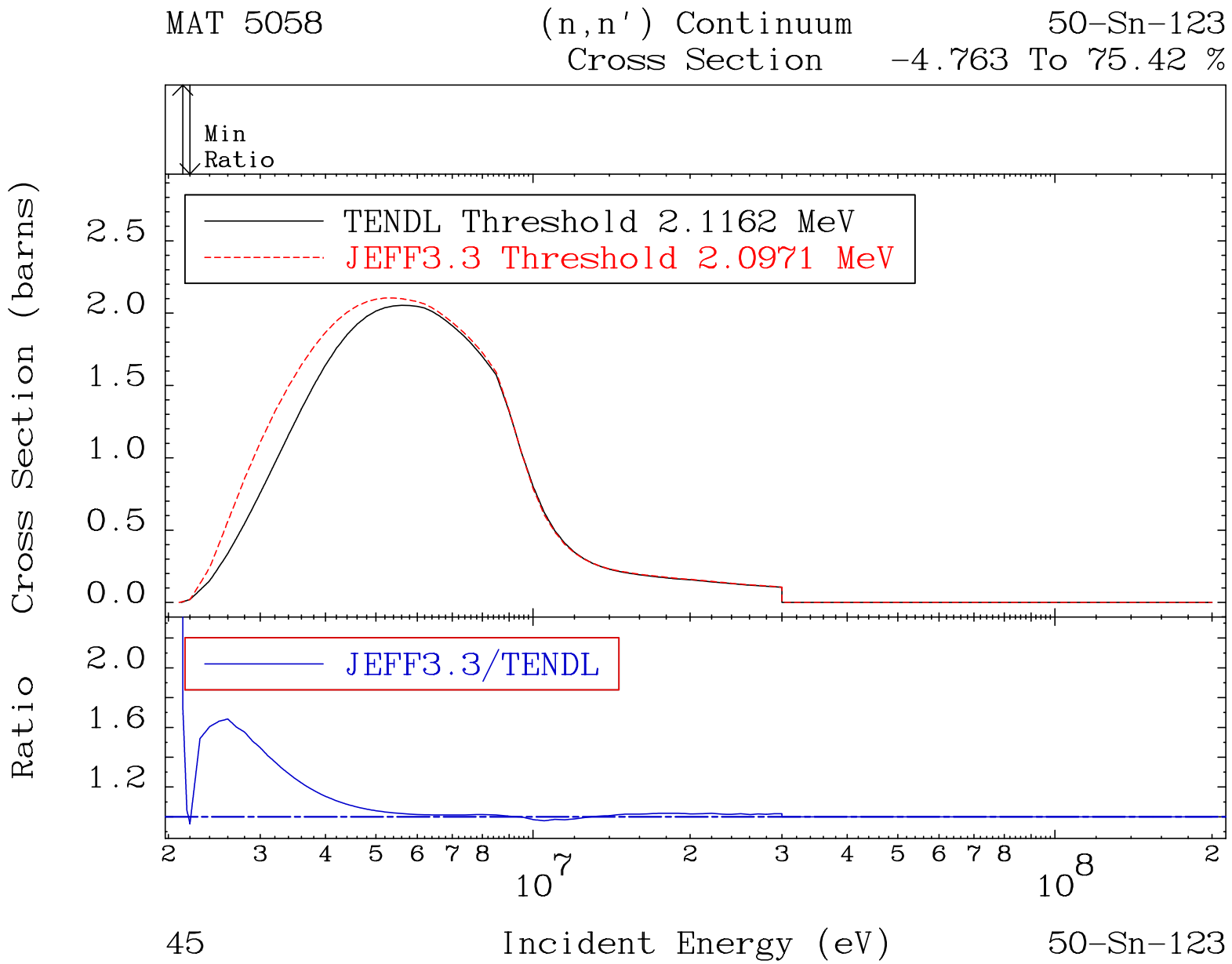

MAT 5058
MT= 74 (n,n') Level
50-Sn-123
Cross Section -40.14 To 12.53 %
Min Ratio
Max Ratio
TENDL Threshold 1.9419 MeV
JEFF3.3 Threshold 1.9419 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
50-Sn-123

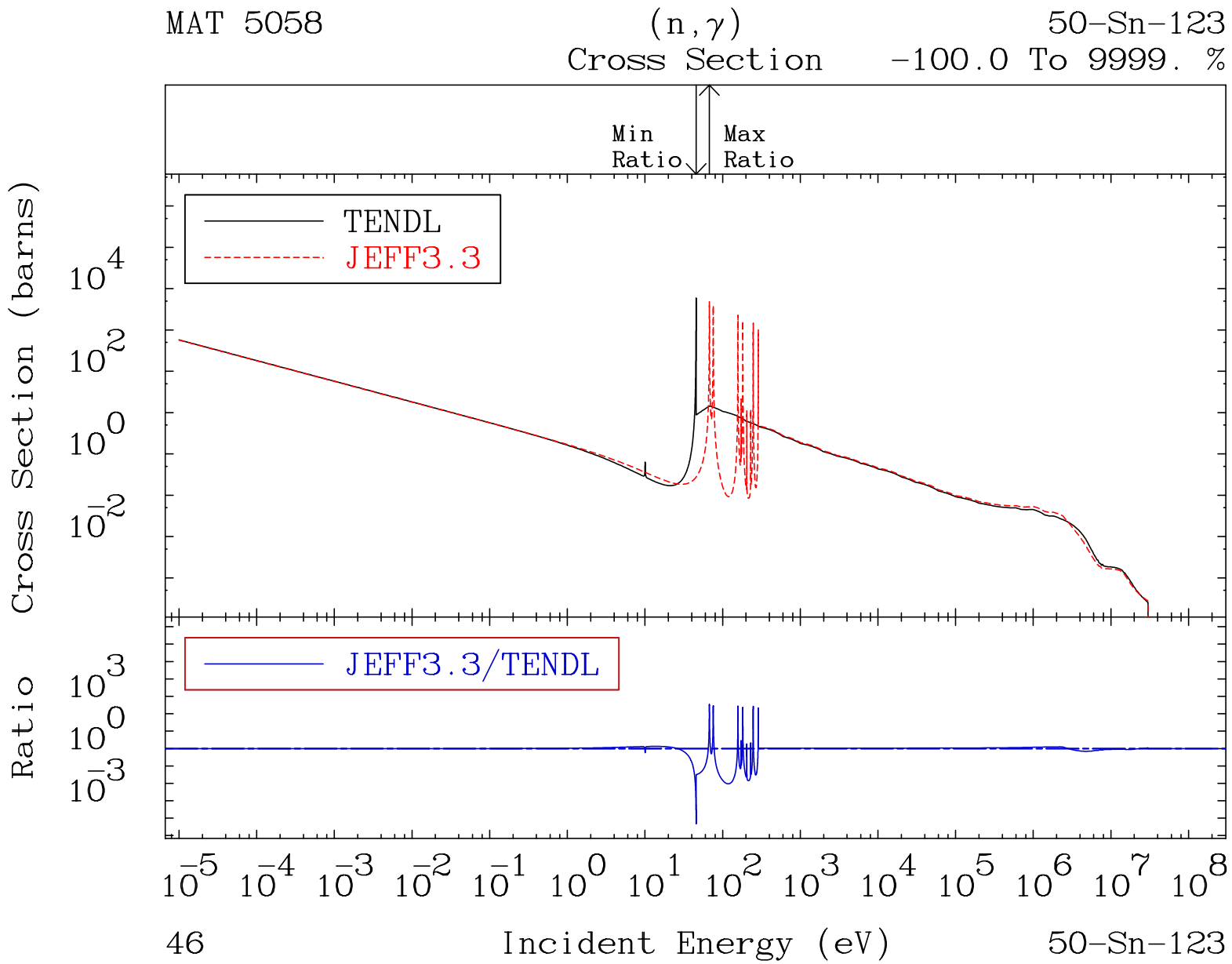

MAT 5058
MT= 75 (n,n') Level
50-Sn-123
Cross Section
-100.0 To 1.251 %
Max
Ratio
TENDL Threshold 1.9609 MeV
JEFF3.3 Threshold 1.9609 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
41
Incident Energy (eV)
50-Sn-123

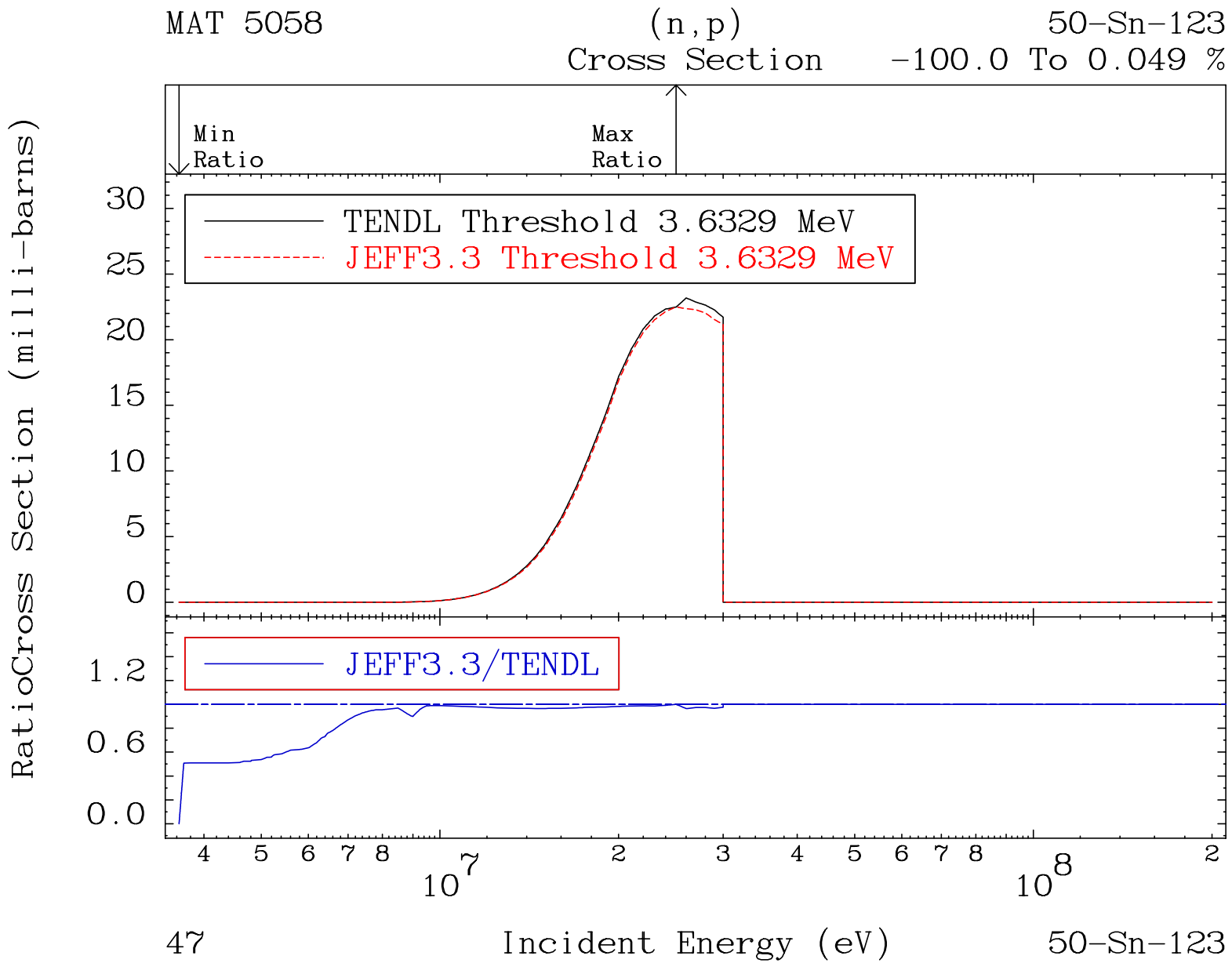

MAT 5058
MT= 76 (n,n') Level
50-Sn-123
Cross Section -42.01 To 0.462 %
Max Ratio
Min Ratio
TENDL Threshold 2.0176 MeV
JEFF3.3 Threshold 2.0176 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
1.0
0.8
0.6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
42
Incident Energy (eV)
50-Sn-123

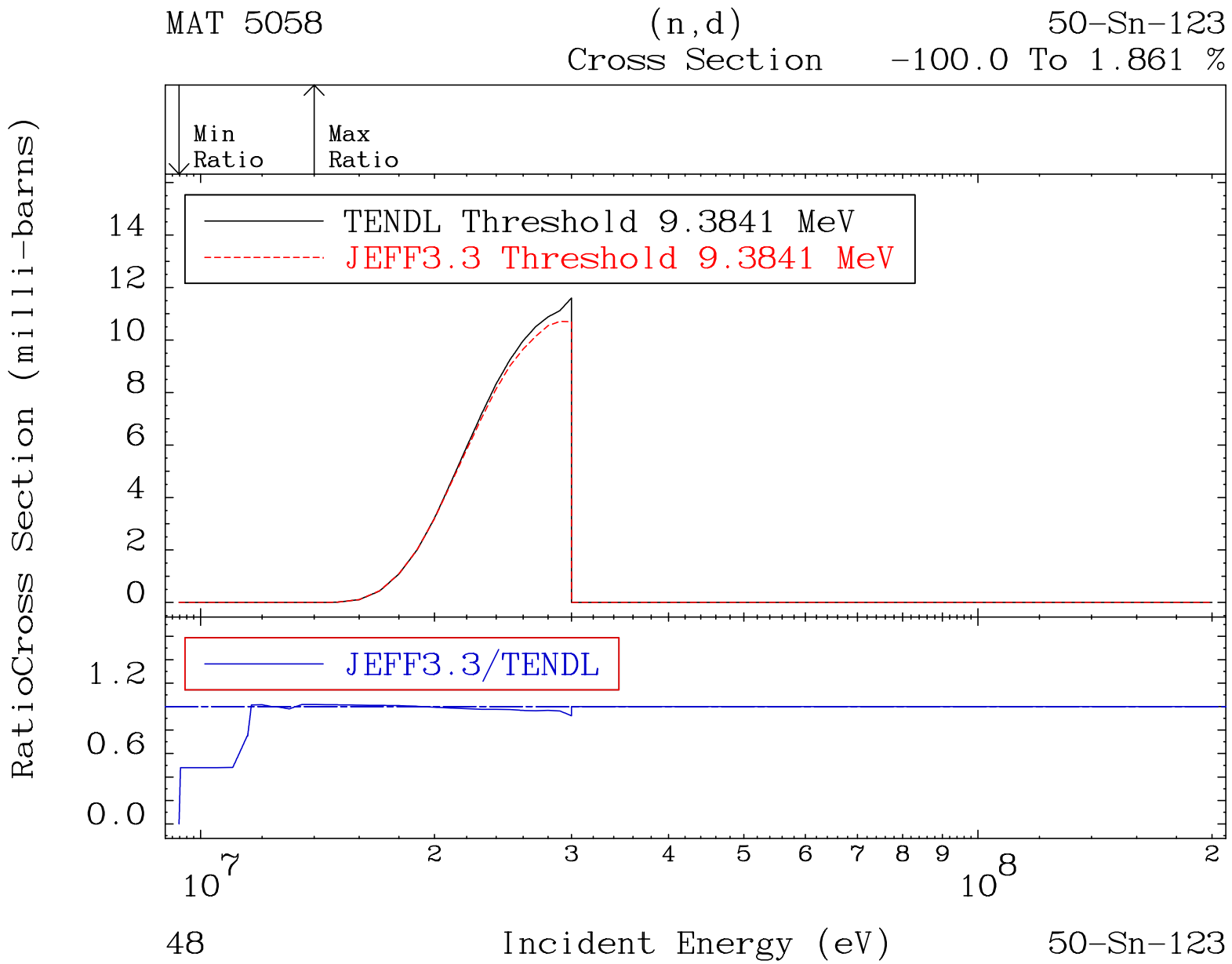

MAT 5058
MT= 77 (n,n') Level
50-Sn-123
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.0426 MeV
JEFF3.3 Threshold 2.0426 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
43
50-Sn-123

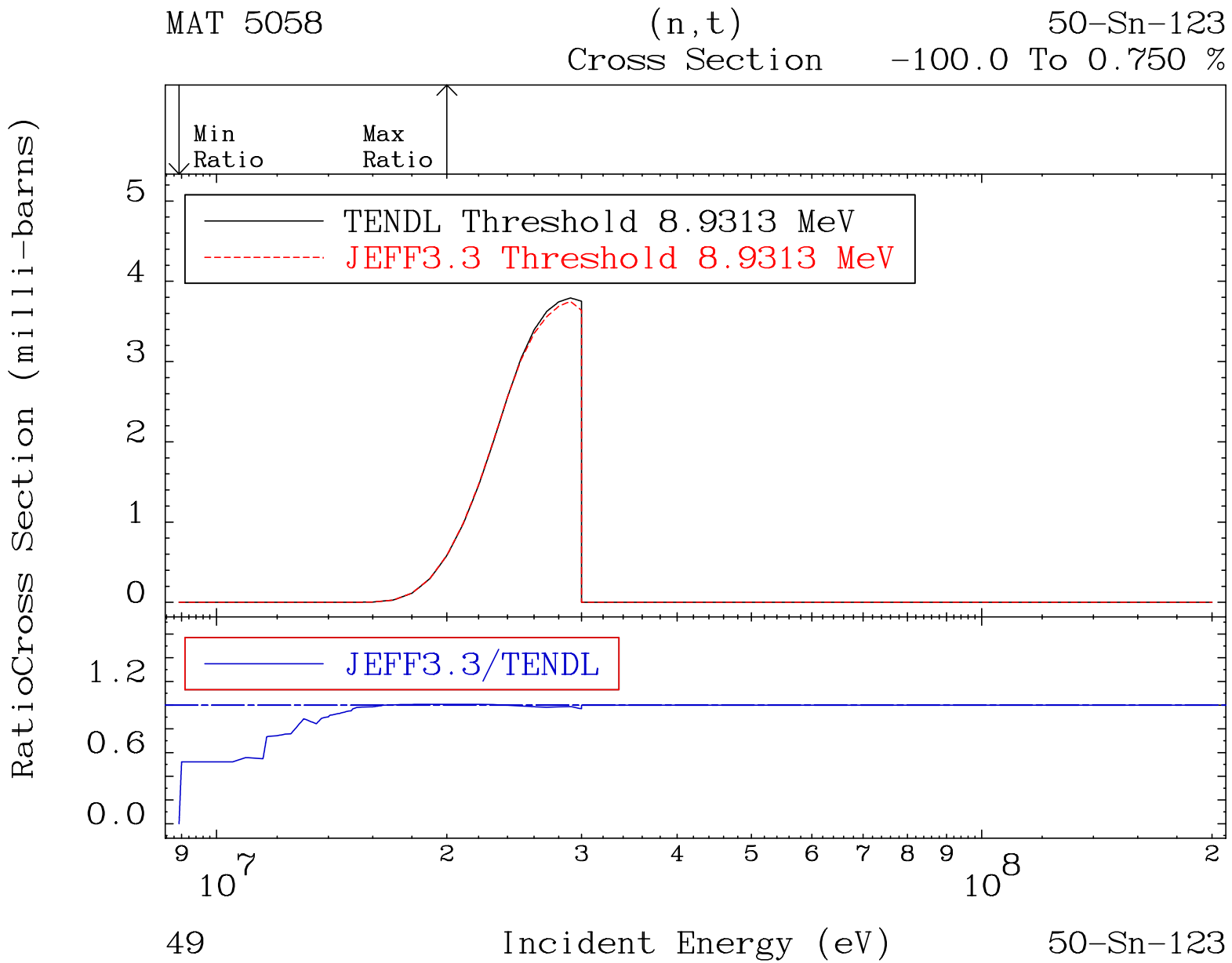

MAT 5058
MT= 78 (n,n') Level
50-Sn-123
Cross Section -52.09 To 44.76 %
Max Ratio
Min Ratio
TENDL Threshold 2.1021 MeV
JEFF3.3 Threshold 2.0971 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
1.8
1.2
0.6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
50-Sn-123

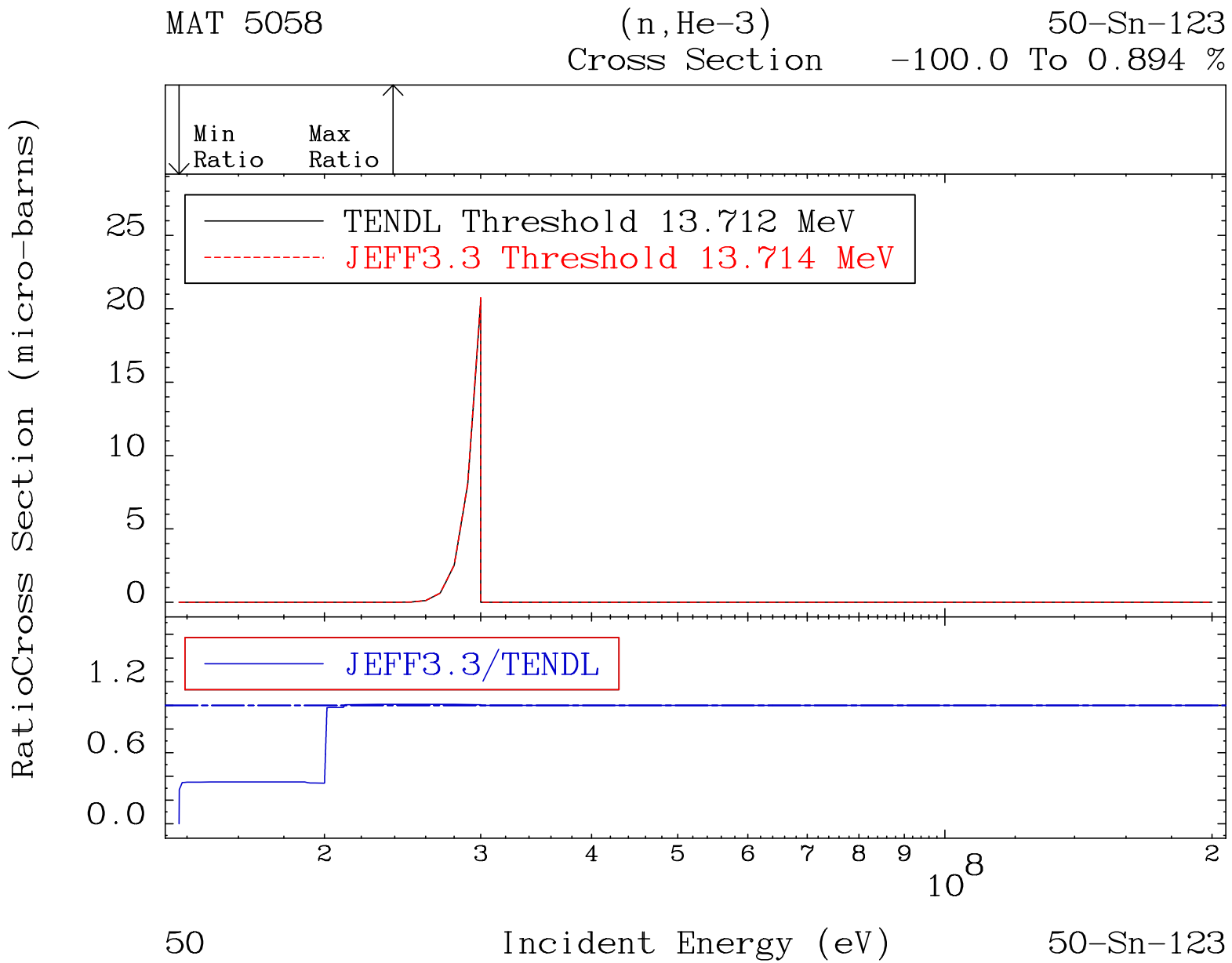

MAT 5058
(n,n') Continuum
Cross Section
50-Sn-123
-4.763 To 75.42 %
Min
Ratio
TENDL Threshold 2.1162 MeV
JEFF3.3 Threshold 2.0971 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
50-Sn-123

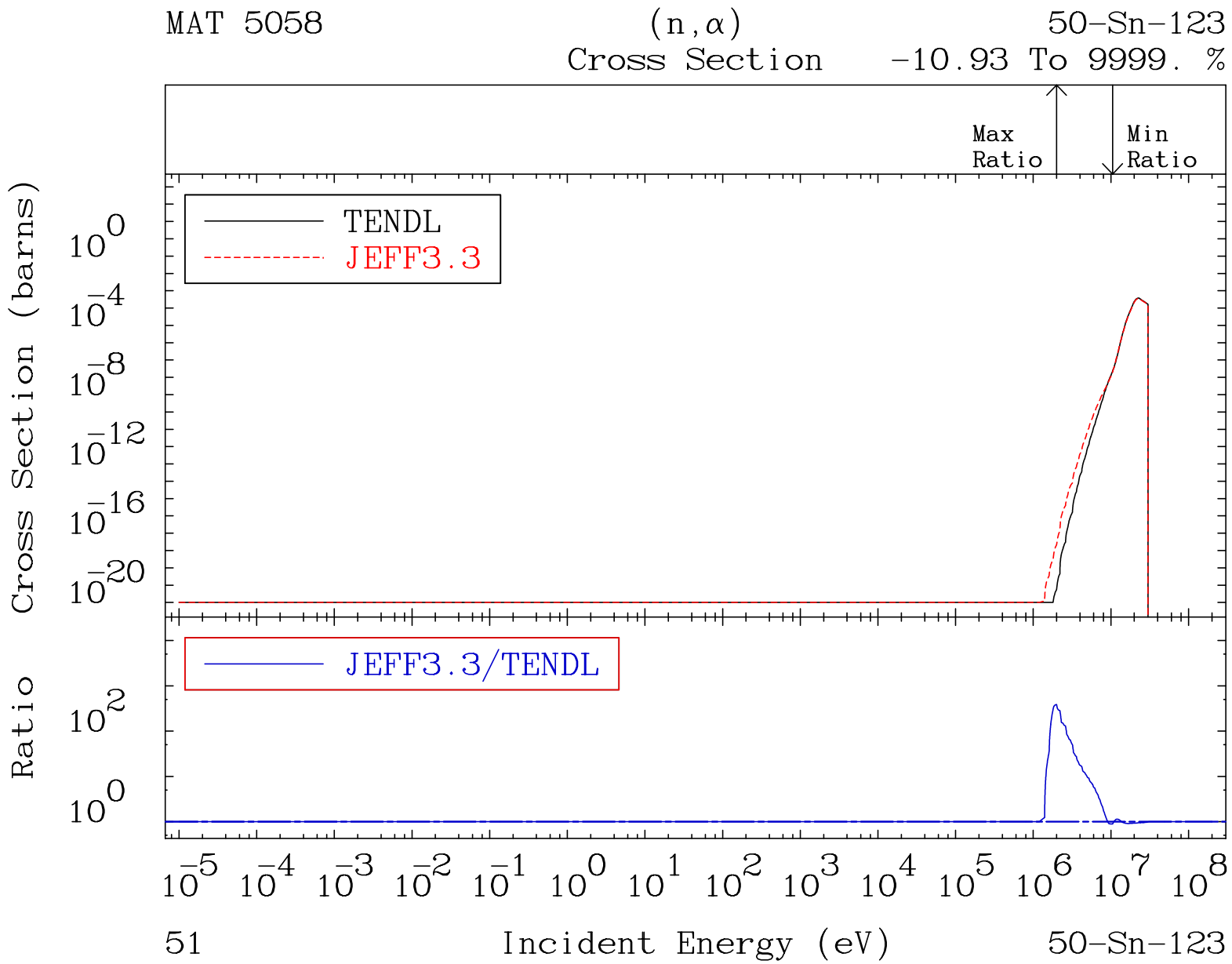

MAT 5058
(n,γ)
Cross Section
50-Sn-123
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
50-Sn-123

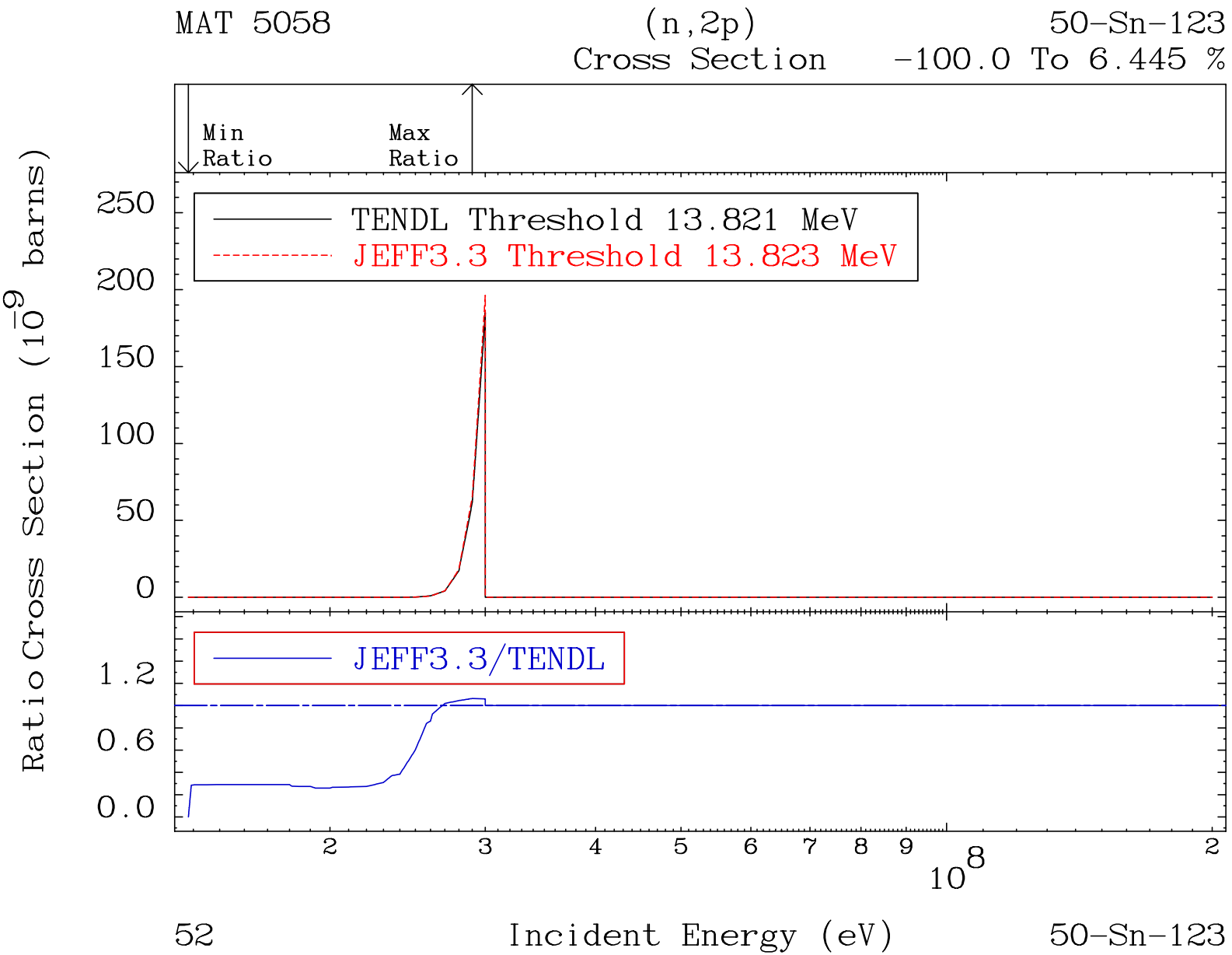

MAT 5058
(n,p)
Cross Section
50-Sn-123
-100.0 To 0.049 %
Min Ratio
Max Ratio
TENDL Threshold 3.6329 MeV
JEFF3.3 Threshold 3.6329 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
47
Incident Energy (eV)
50-Sn-123

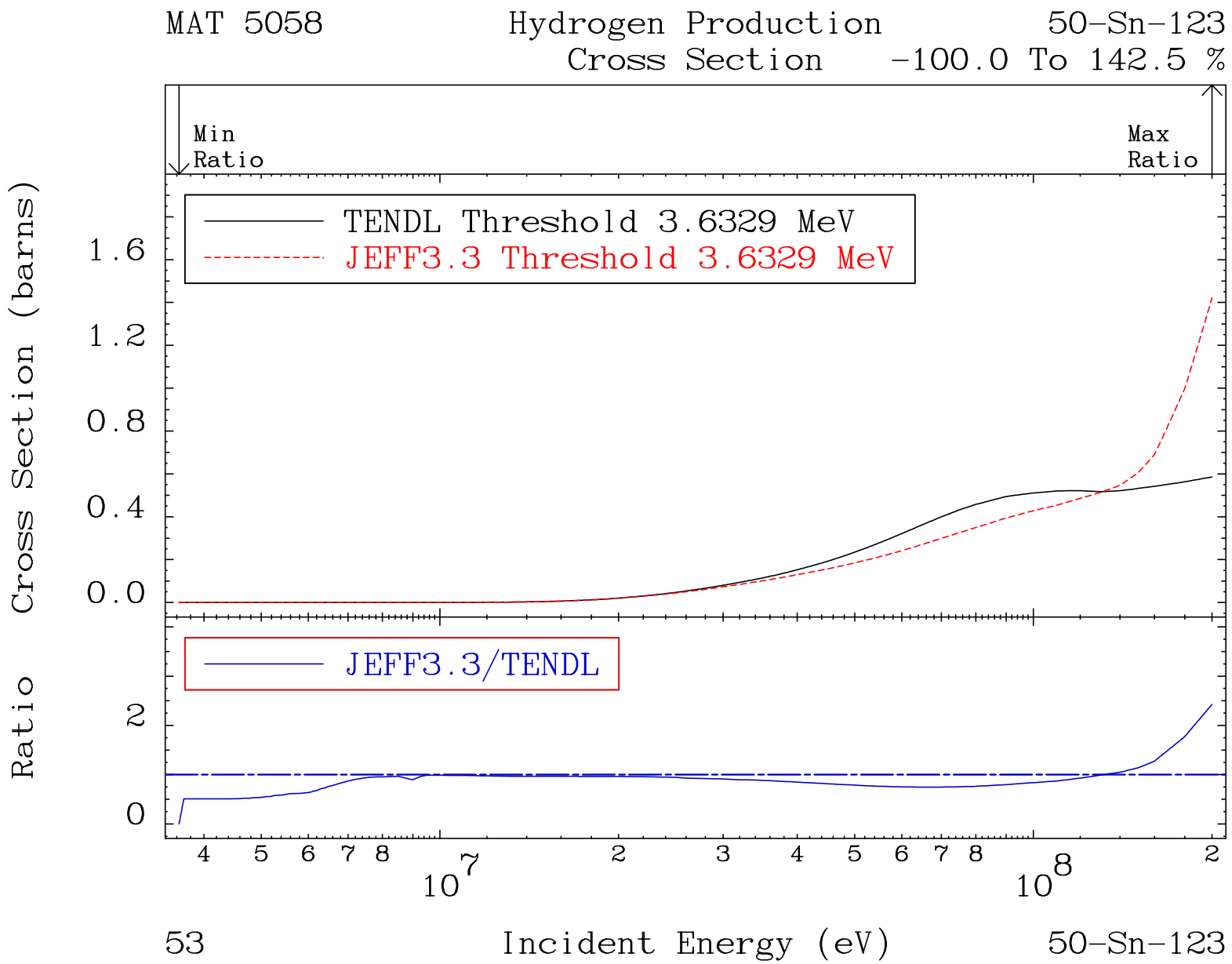

MAT 5058
(n,d)
Cross Section
50-Sn-123
-100.0 To 1.861 %
Min Ratio
Max Ratio
TENDL Threshold 9.3841 MeV
JEFF3.3 Threshold 9.3841 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
1.2
0.6
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
50-Sn-123

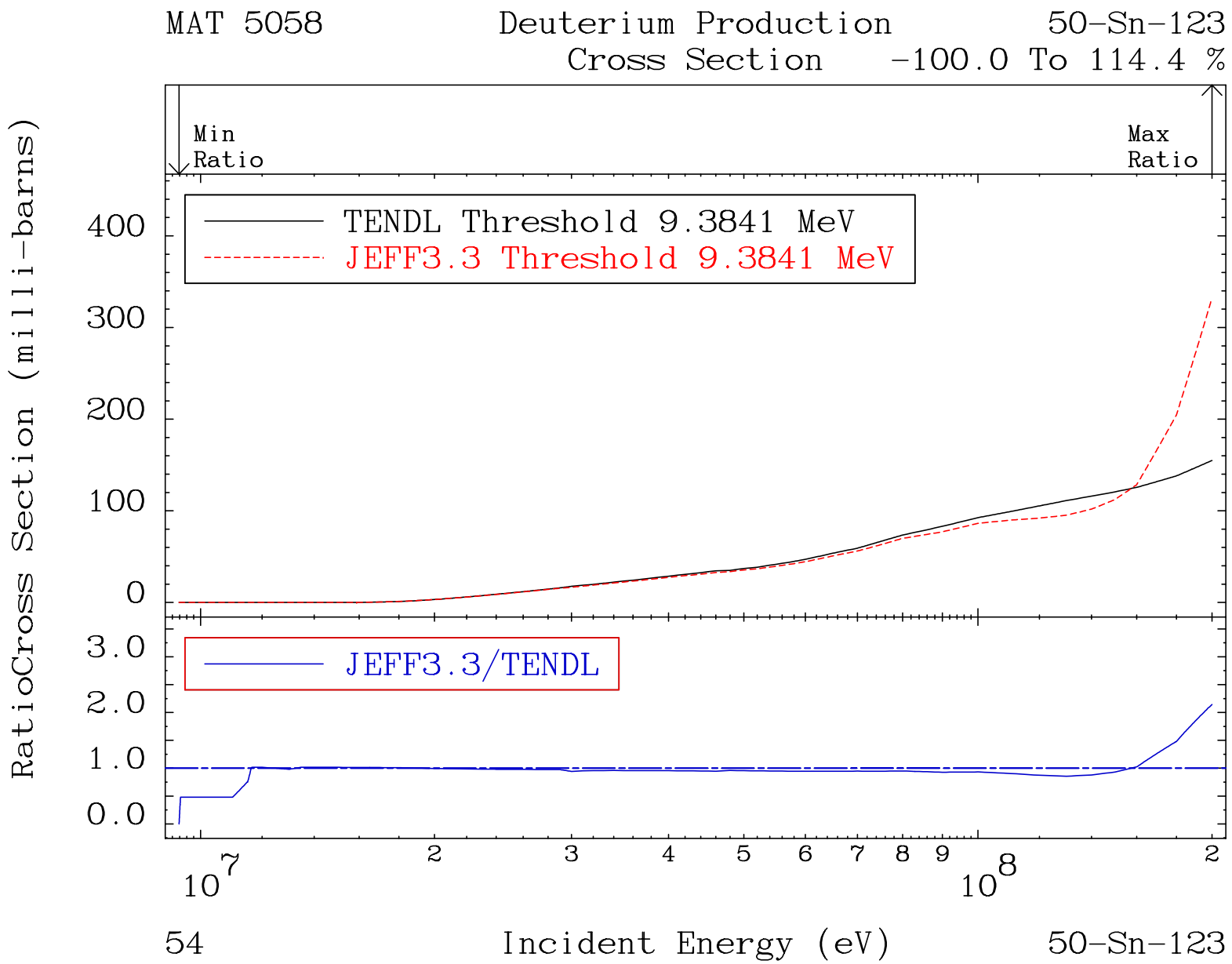

MAT 5058
(n,t)
Cross Section
50-Sn-123
-100.0 To 0.750 %
Min Ratio
Max Ratio
TENDL Threshold 8.9313 MeV
JEFF3.3 Threshold 8.9313 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
49
50-Sn-123

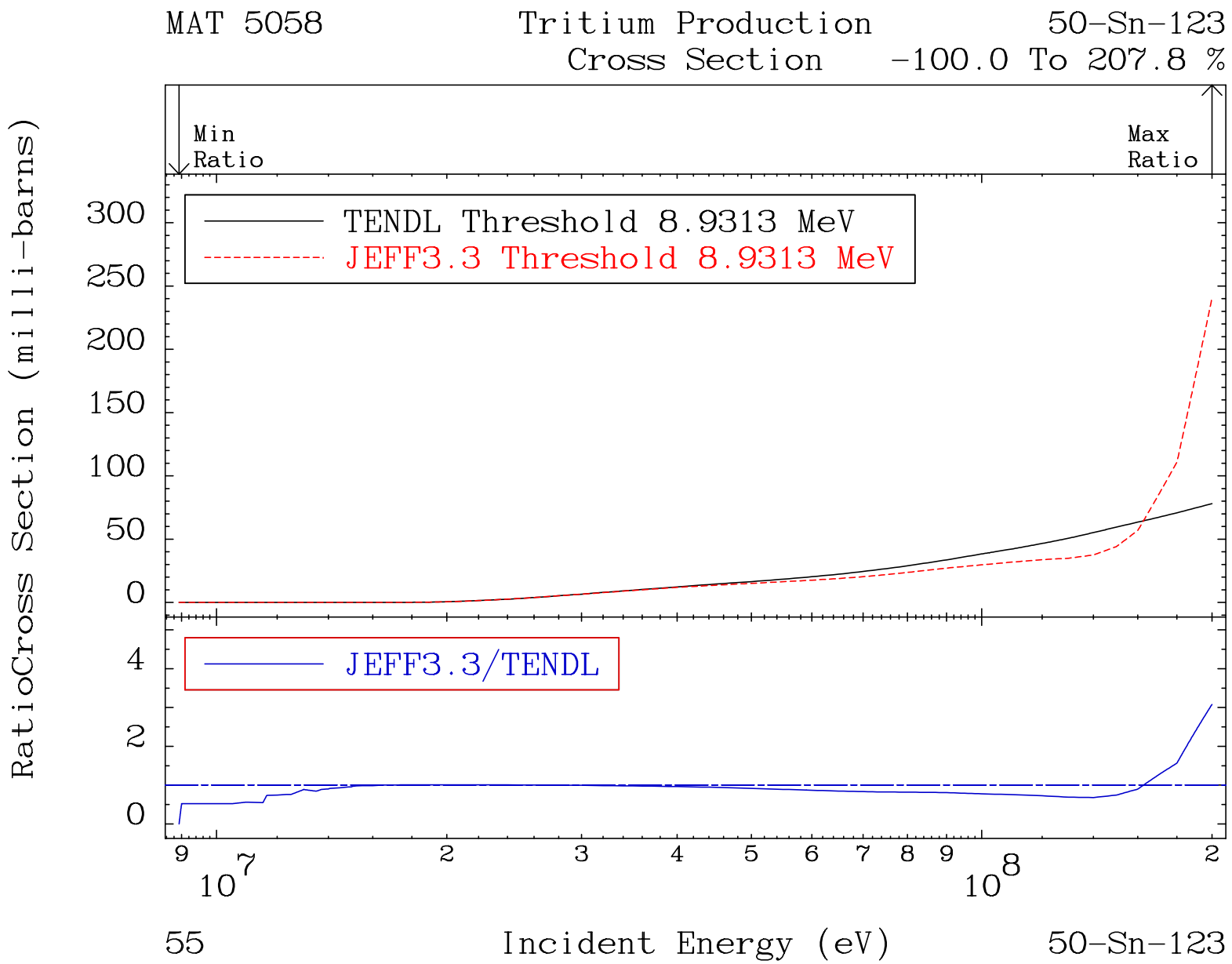

MAT 5058
(n,He-3)
Cross Section
50-Sn-123
-100.0 To 0.894 %
Min Ratio
Max Ratio
TENDL Threshold 13.712 MeV
JEFF3.3 Threshold 13.714 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
25
20
15
10
5
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
50-Sn-123

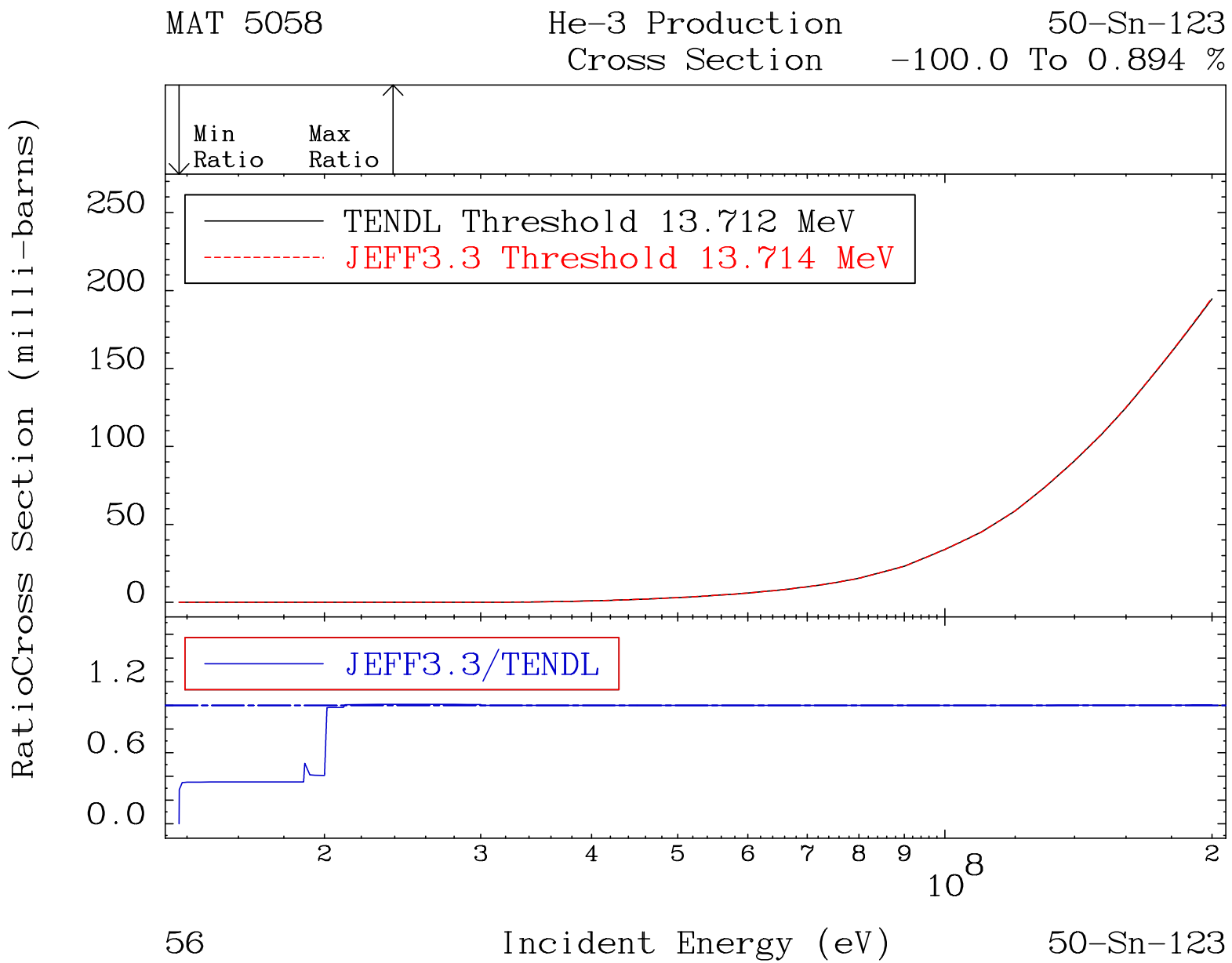

MAT 5058
(n,α)
Cross Section
50-Sn-123
-10.93 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
50-Sn-123

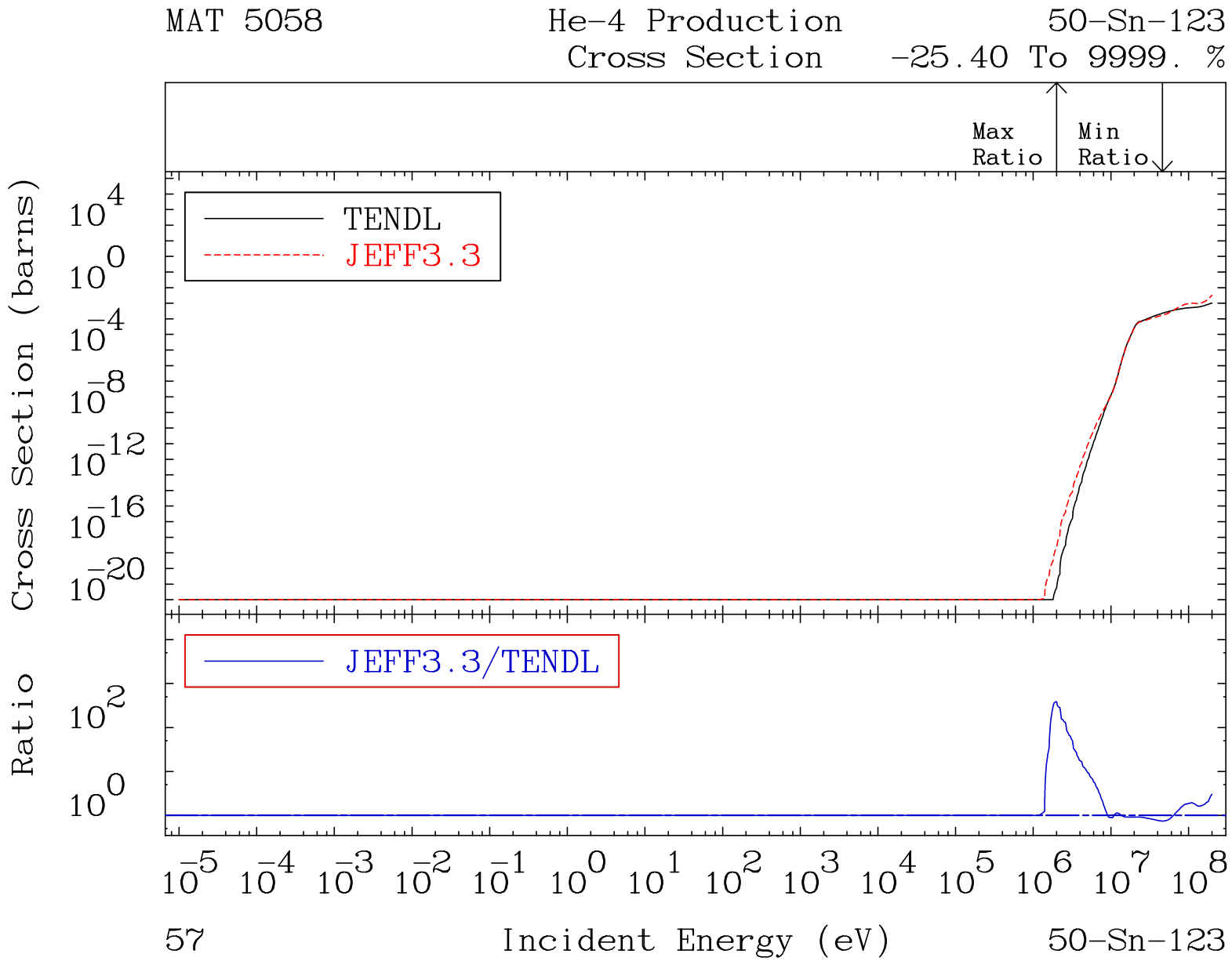

MAT 5058
(n,2p)
50-Sn-123
Cross Section
-100.0 To 6.445 %
Min Ratio
Max Ratio
TENDL Threshold 13.821 MeV
JEFF3.3 Threshold 13.823 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
250
200
150
100
50
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
50-Sn-123

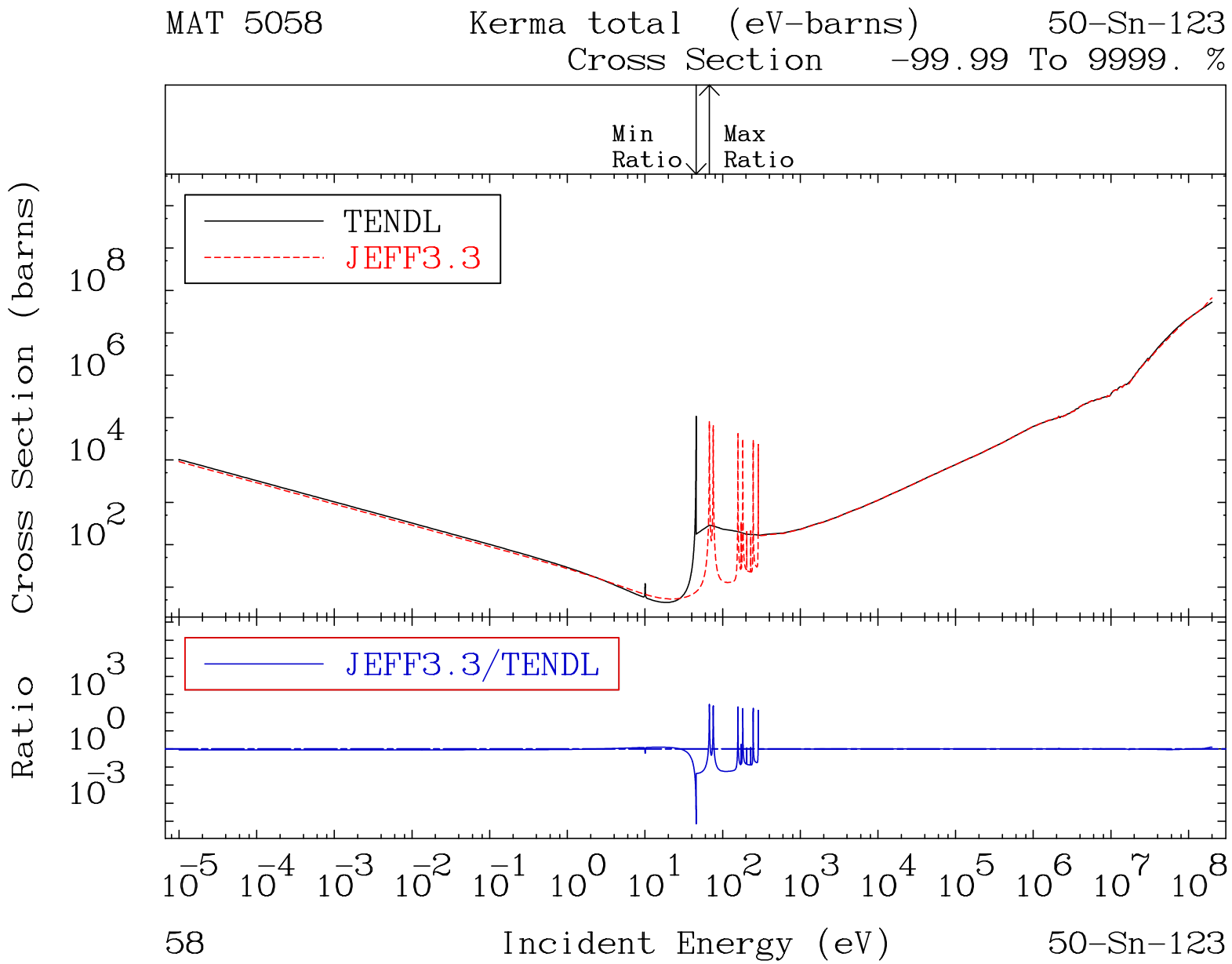

MAT 5058
Hydrogen Production
50-Sn-123
Cross Section
-100.0 To 142.5 %
Min Ratio
Max Ratio
TENDL Threshold 3.6329 MeV
JEFF3.3 Threshold 3.6329 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
2
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
53
Incident Energy (eV)
50-Sn-123

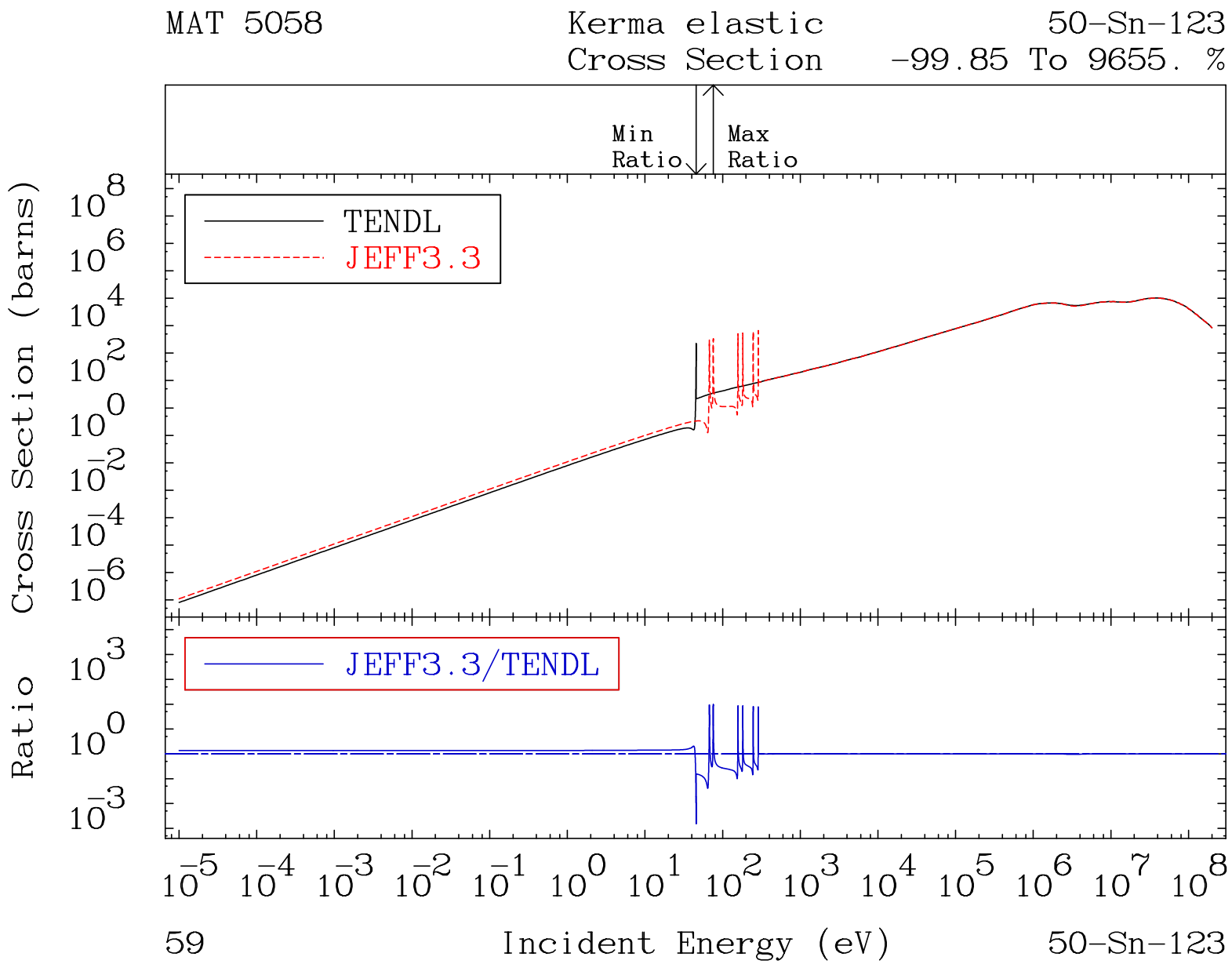

MAT 5058
Deuterium Production
50-Sn-123
Cross Section -100.0 To 114.4 %
Min Ratio
Max Ratio
TENDL Threshold 9.3841 MeV
JEFF3.3 Threshold 9.3841 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
3.0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
50-Sn-123

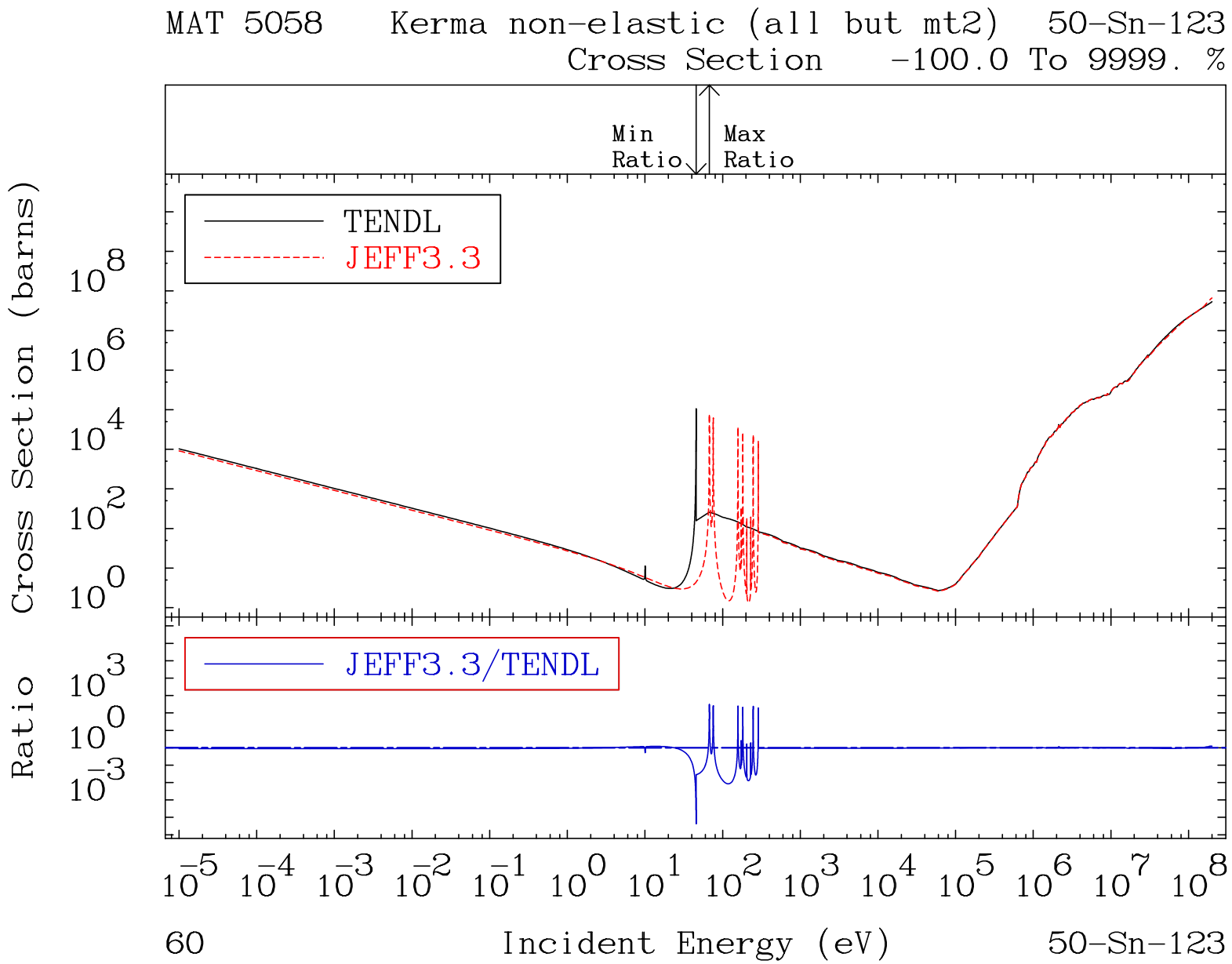

MAT 5058
Tritium Production
Cross Section
50-Sn-123
-100.0 To 207.8 %
Min Ratio
Max Ratio
TENDL Threshold 8.9313 MeV
JEFF3.3 Threshold 8.9313 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
4
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
50-Sn-123

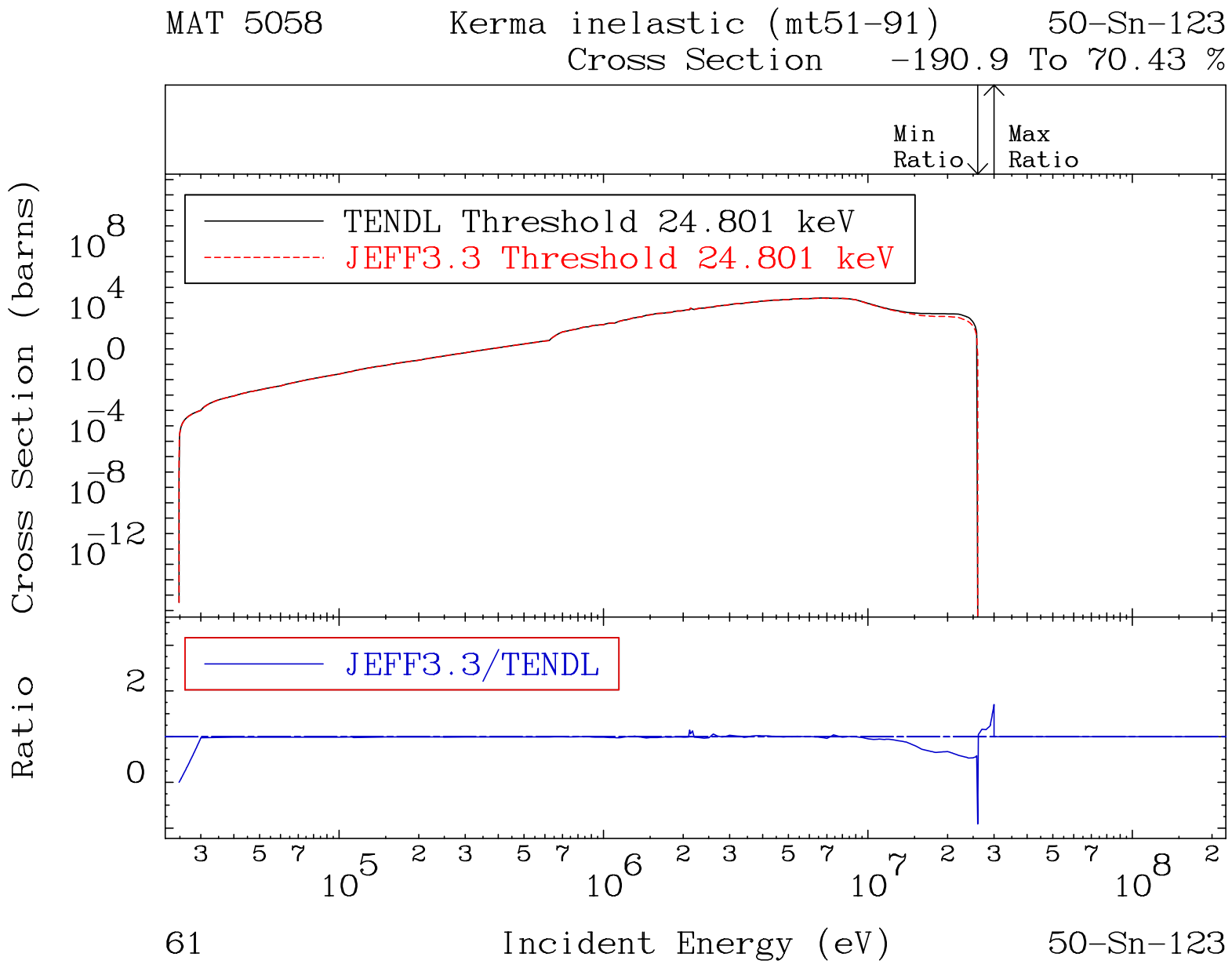

MAT 5058
He-3 Production
Cross Section
50-Sn-123
-100.0 To 0.894 %
Min Ratio
Max Ratio
TENDL Threshold 13.712 MeV
JEFF3.3 Threshold 13.714 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
50-Sn-123

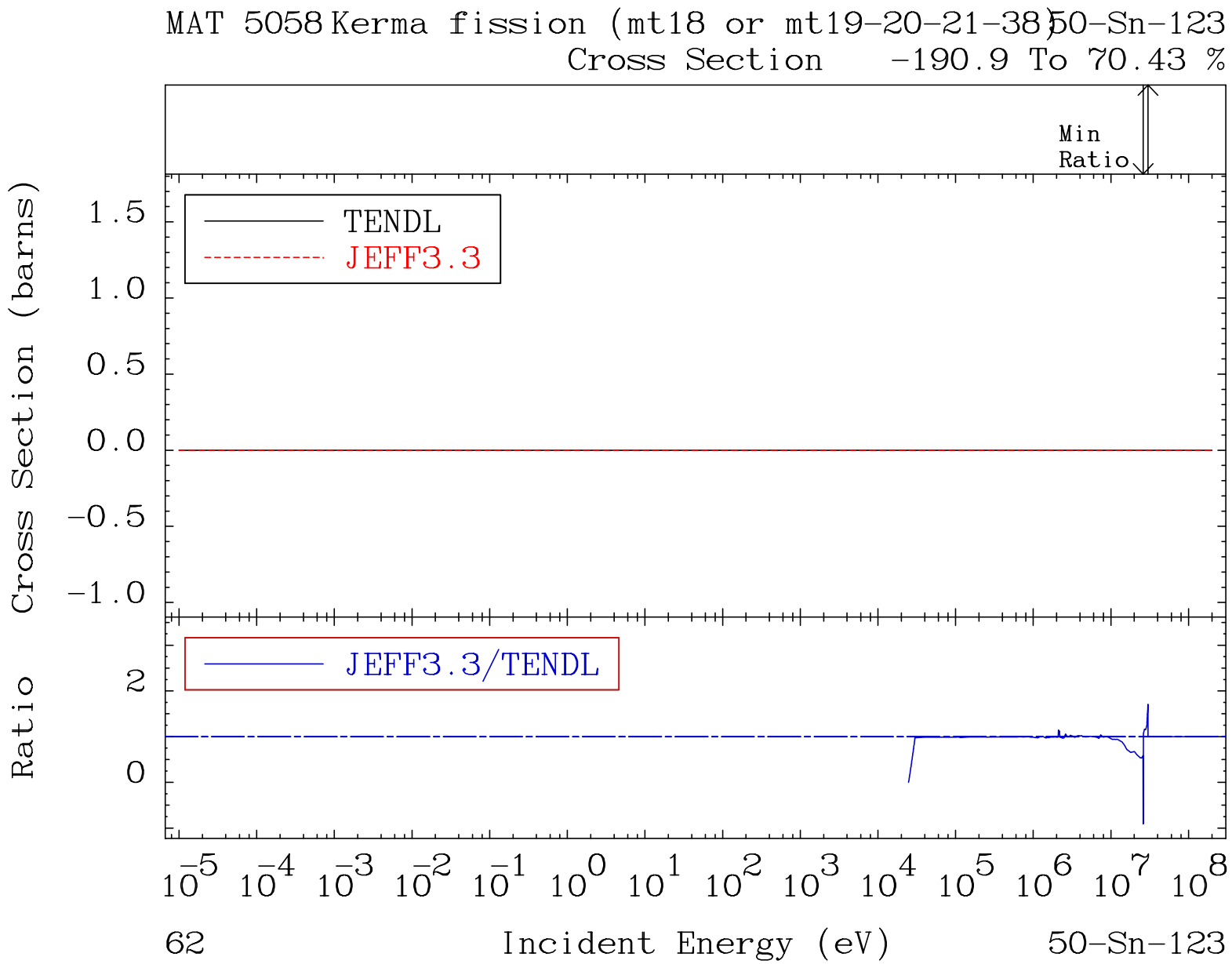

MAT 5058
He-4 Production
Cross Section
50-Sn-123
-25.40 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
50-Sn-123

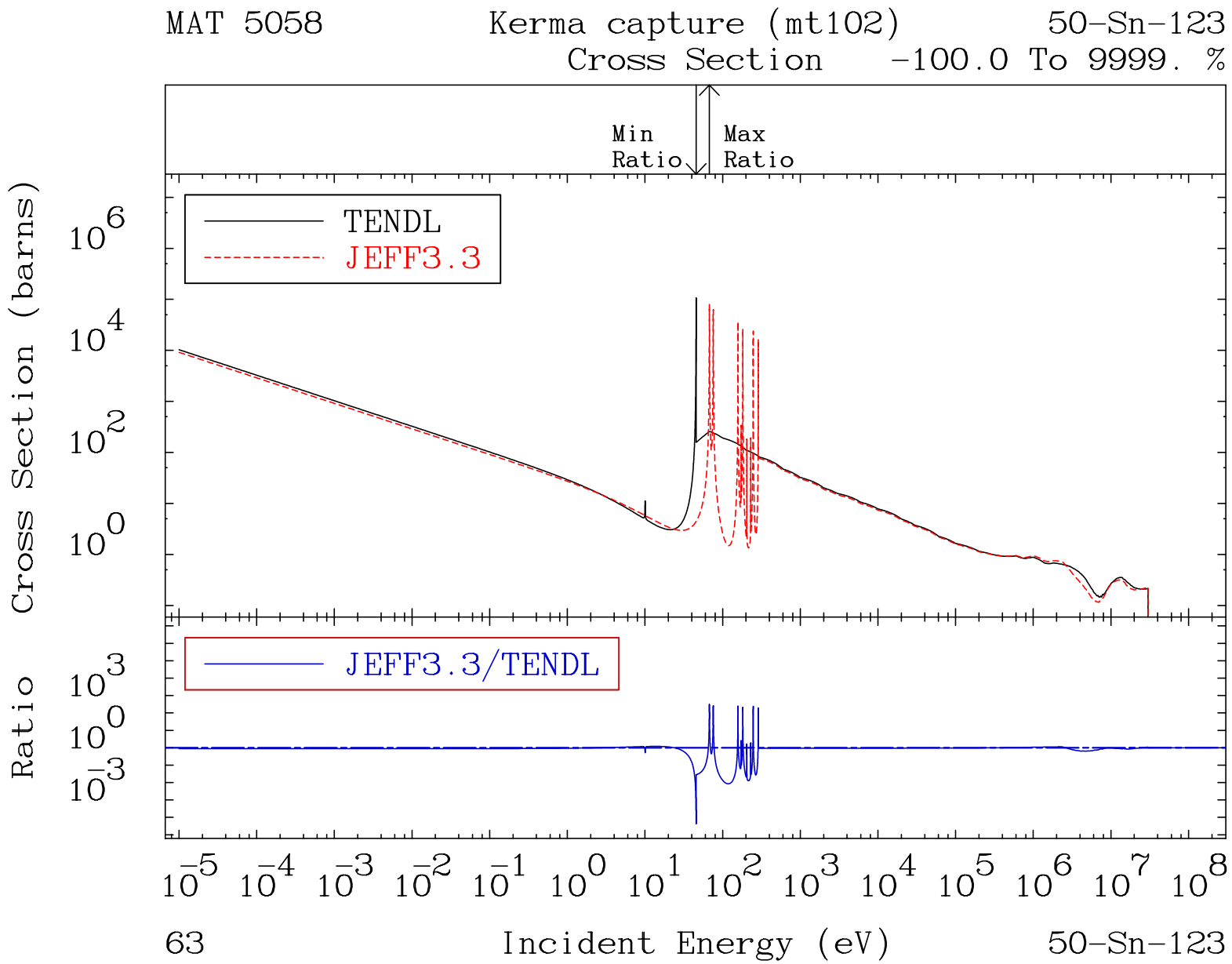

MAT 5058
Kerma total (eV-barns)
50-Sn-123
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
50-Sn-123

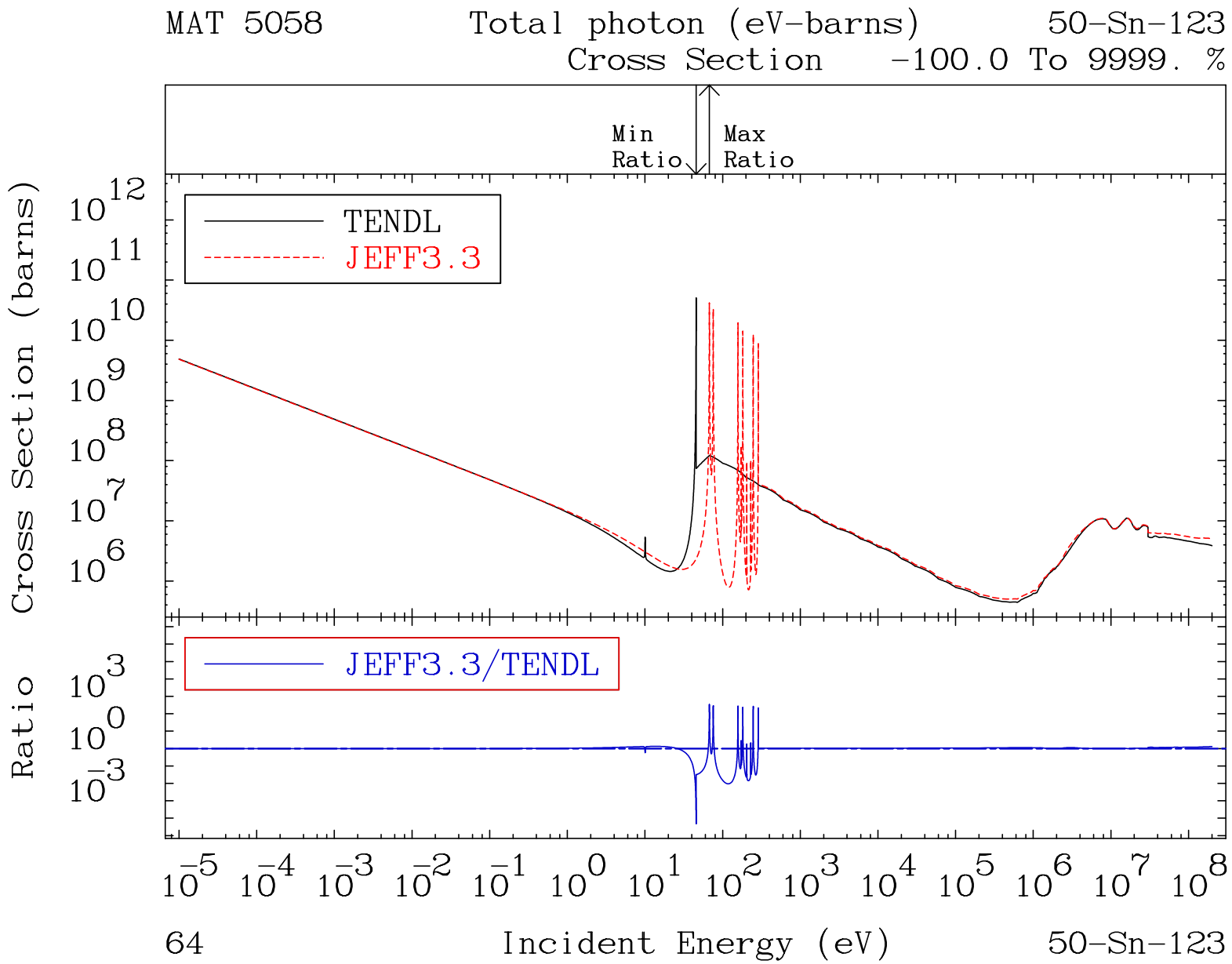

MAT 5058
Kerma elastic
Cross Section
50-Sn-123
-99.85 To 9655. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
50-Sn-123

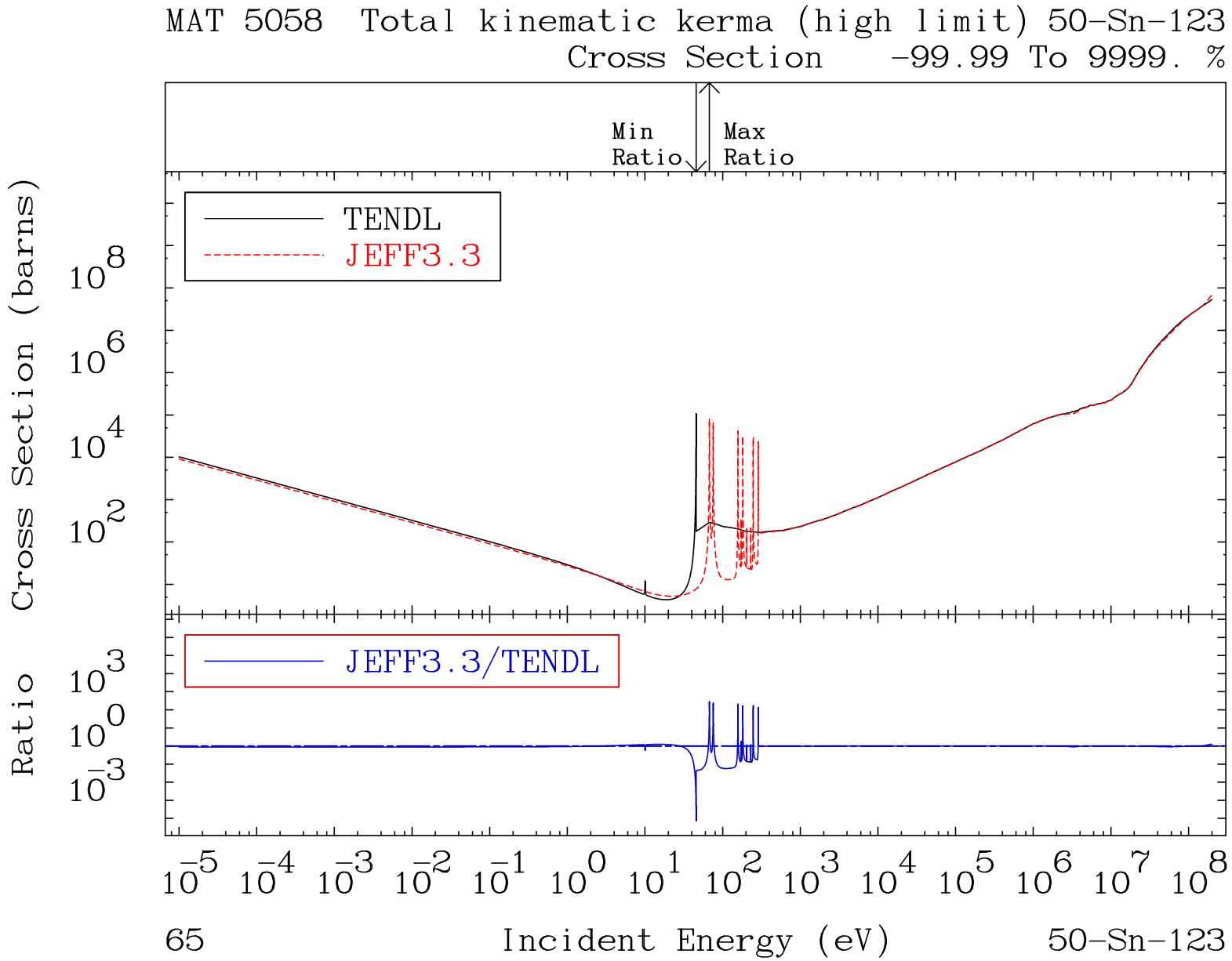

MAT 5058 Kerma non-elastic (all but mt2) 50-Sn-123
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
50-Sn-123

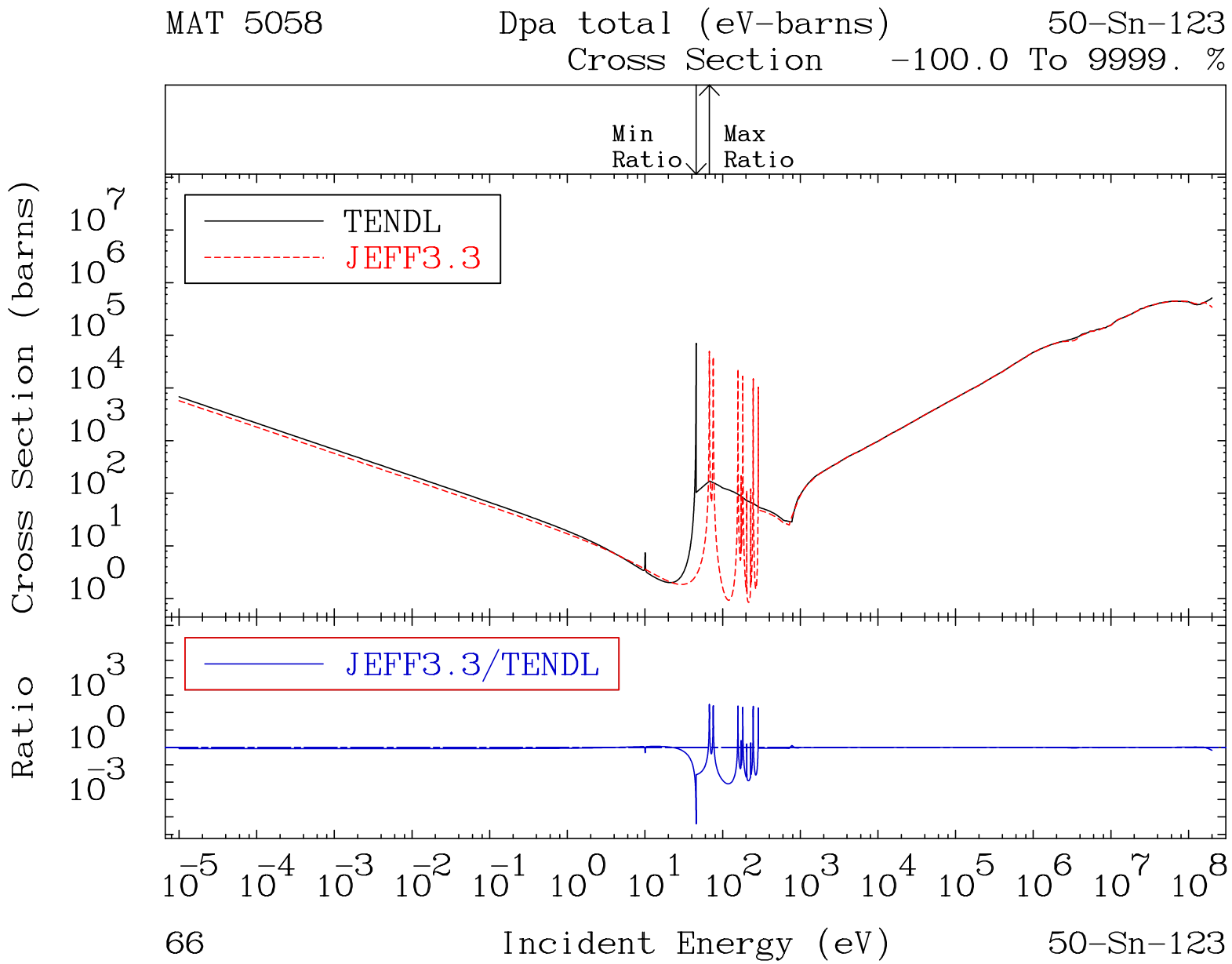

MAT 5058
Kerma inelastic (mt51-91)
50-Sn-123
Cross Section
-190.9 To 70.43 %
Min Ratio
Max Ratio
TENDL Threshold 24.801 keV
JEFF3.3 Threshold 24.801 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
61
50-Sn-123

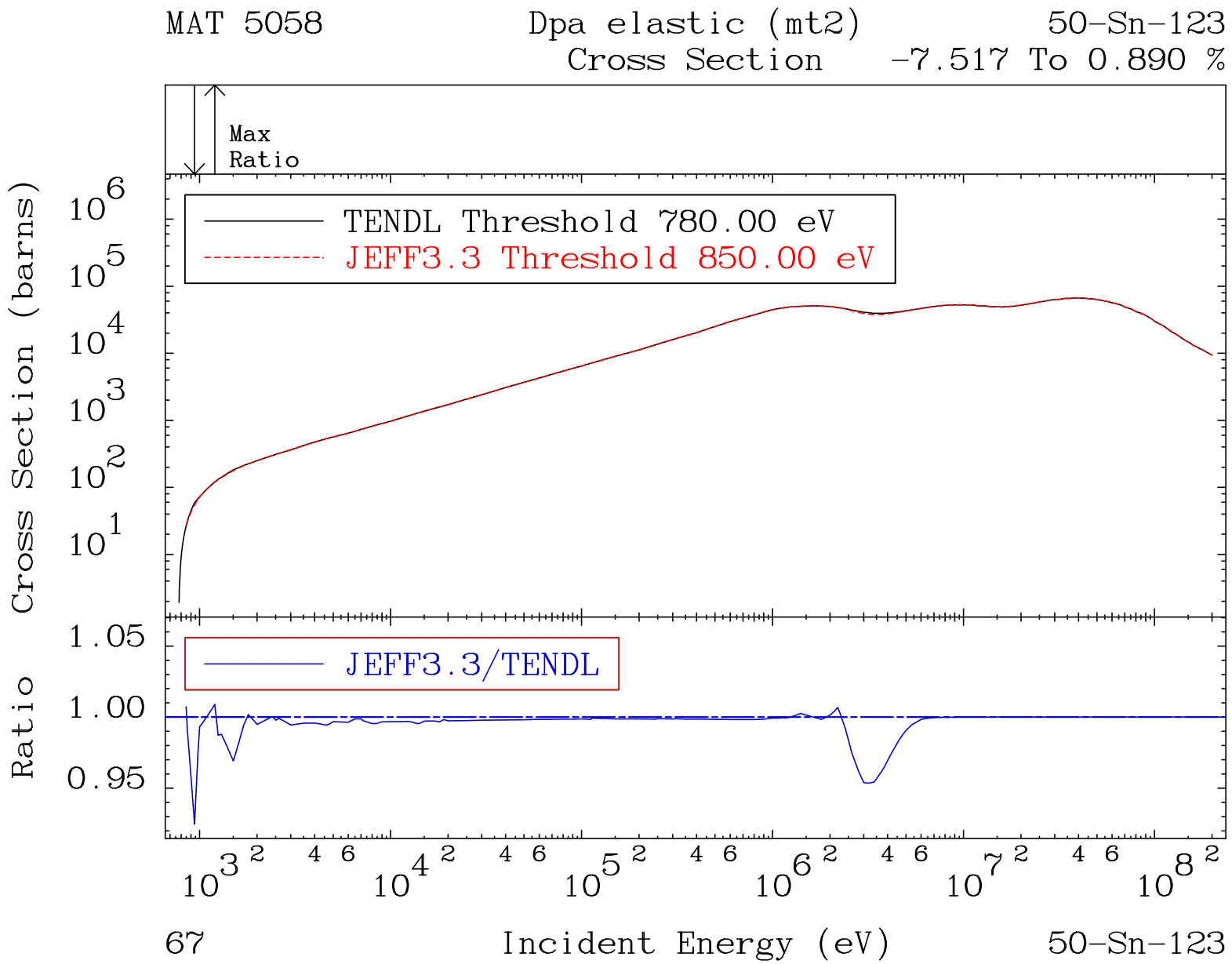

MAT 5058 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-123
Cross Section -190.9 To 70.43 %
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
2
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
62
Incident Energy (eV)
50-Sn-123

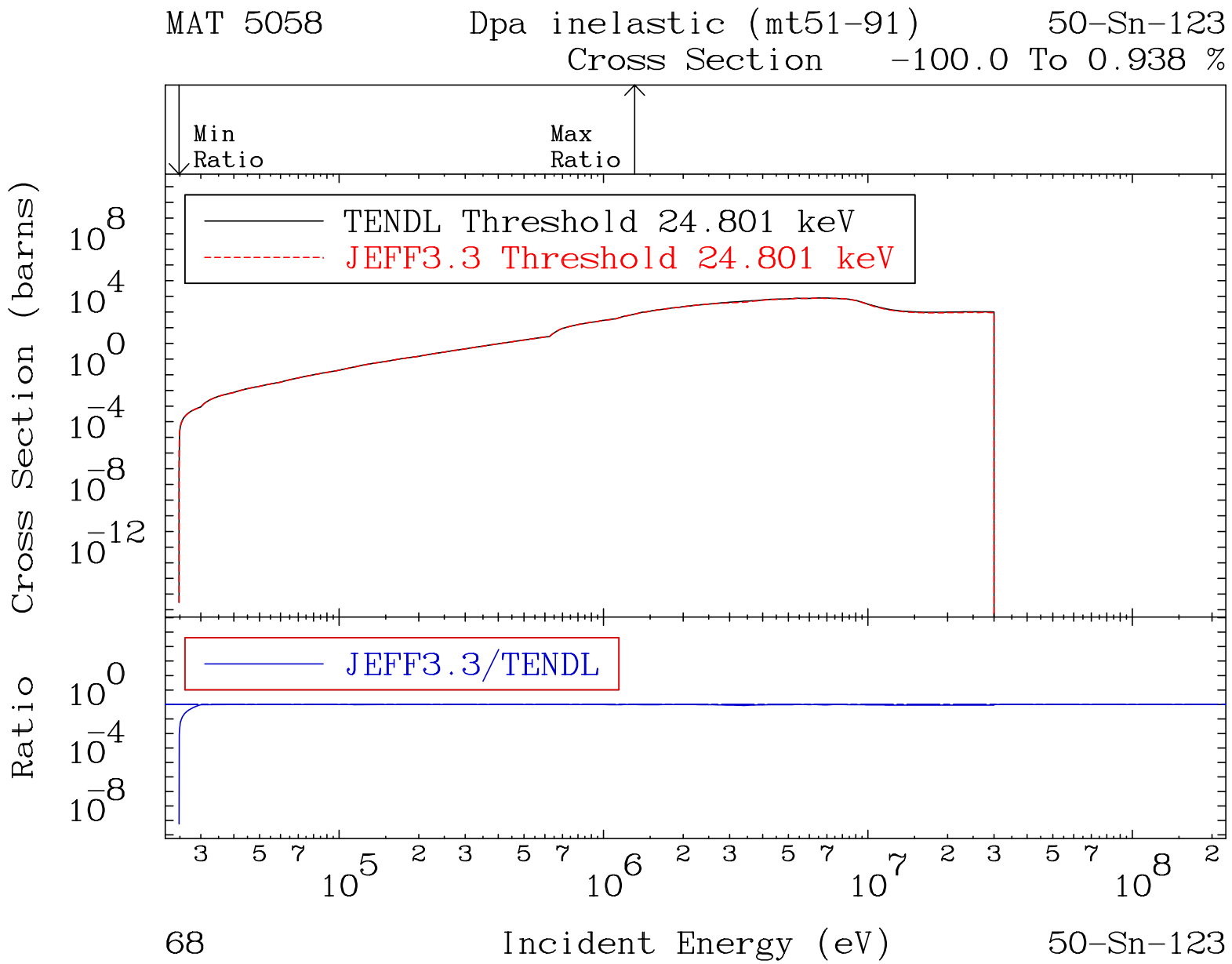

MAT 5058
Kerma capture (mt102)
50-Sn-123
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
50-Sn-123

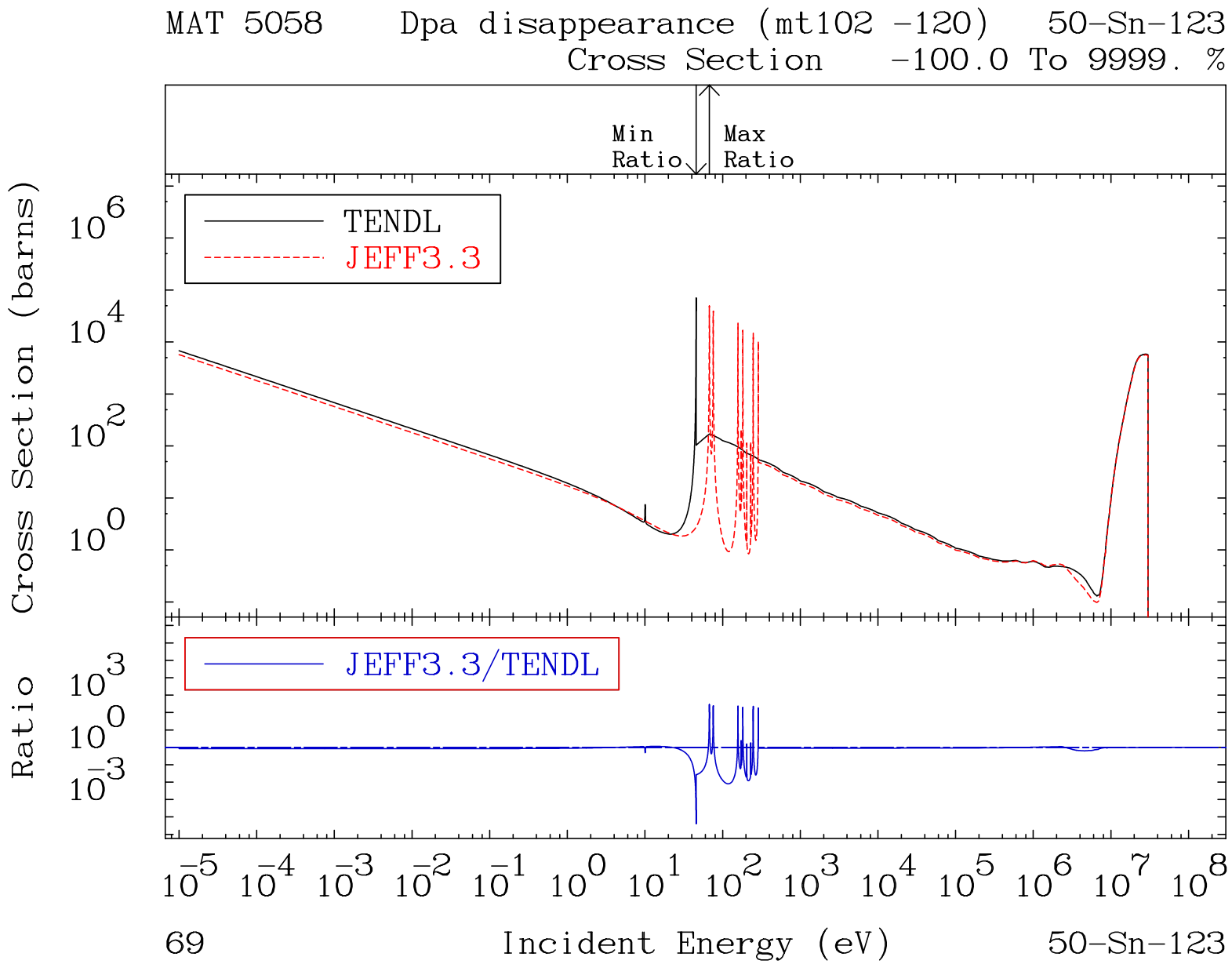

MAT 5058
Total photon (eV-barns)
50-Sn-123
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
50-Sn-123

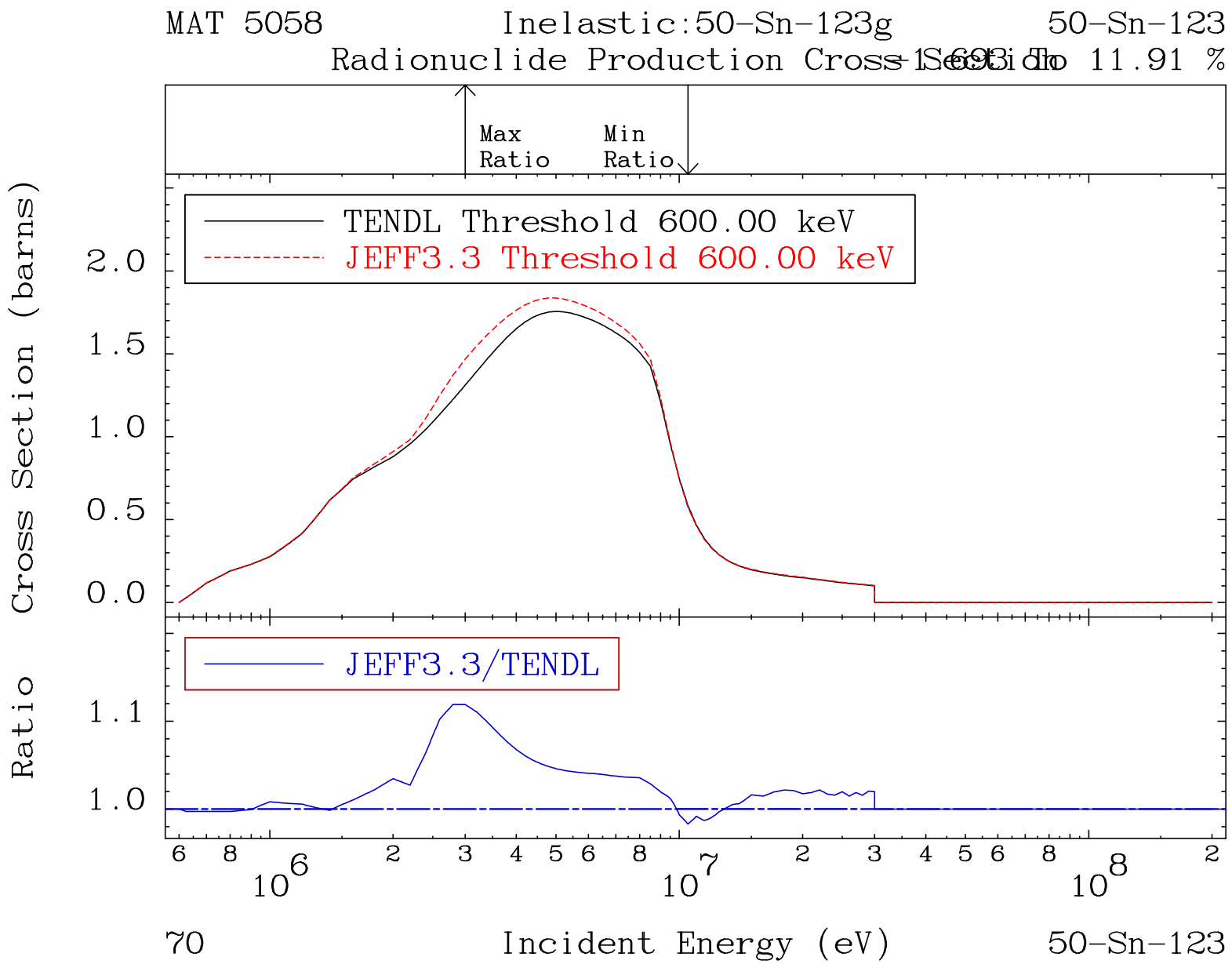

MAT 5058 Total kinematic kerma (high limit) 50-Sn-123
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
50-Sn-123

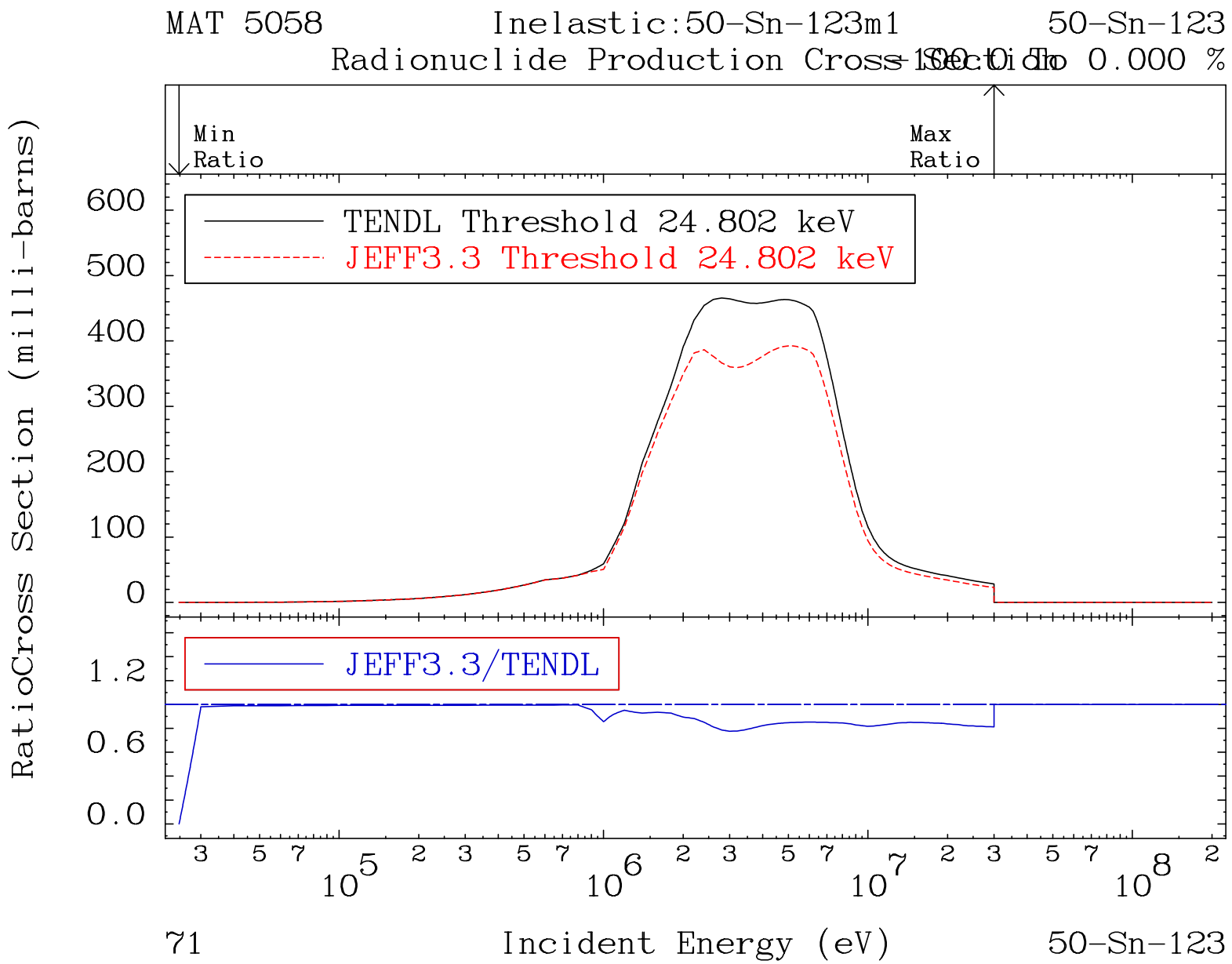

MAT 5058
Dpa total (eV-barns)
50-Sn-123
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
50-Sn-123

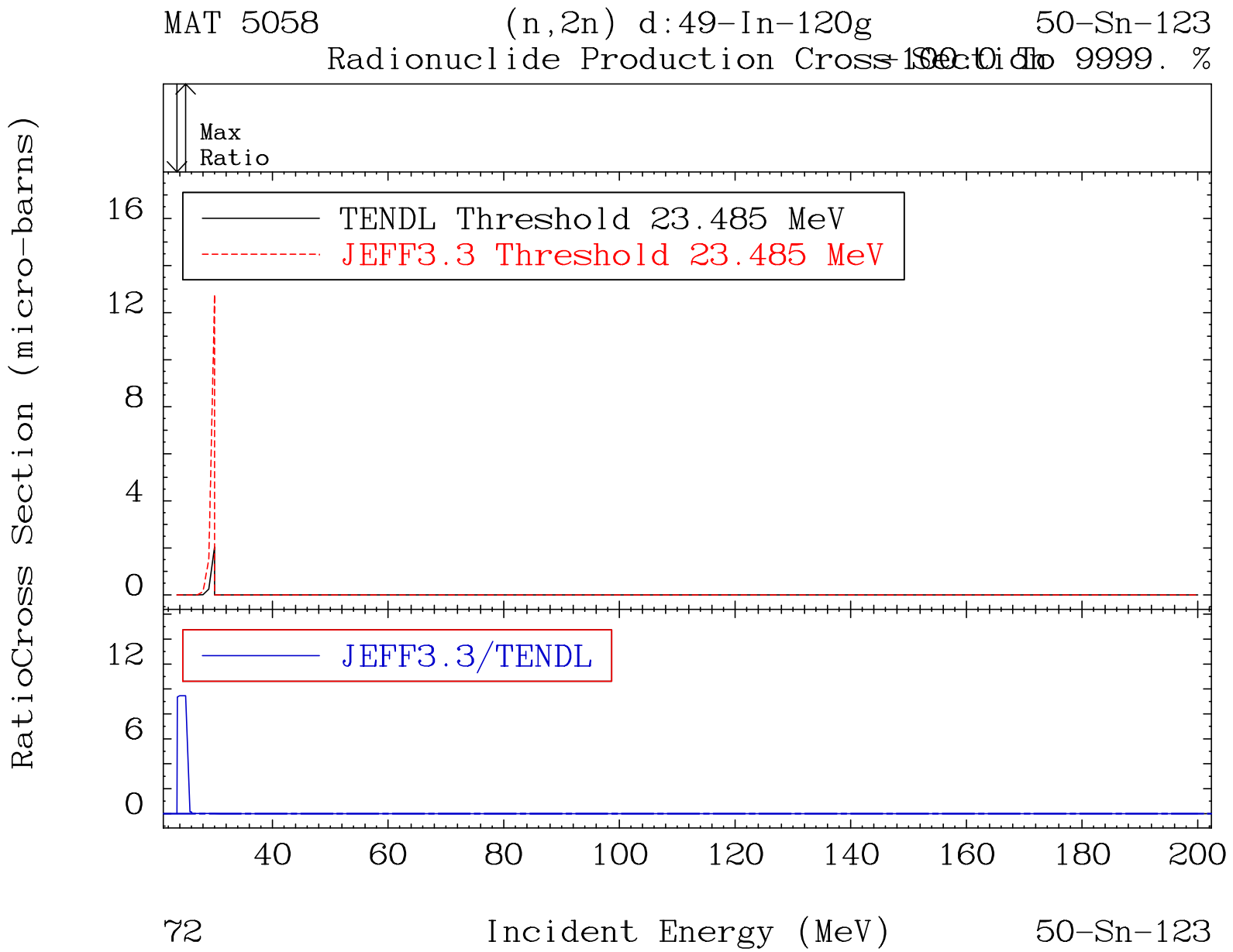

MAT 5058
Dpa elastic (mt2)
Cross Section
50-Sn-123
-7.517 To 0.890 %
Max
Ratio
TENDL Threshold 780.00 eV
JEFF3.3 Threshold 850.00 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
50-Sn-123

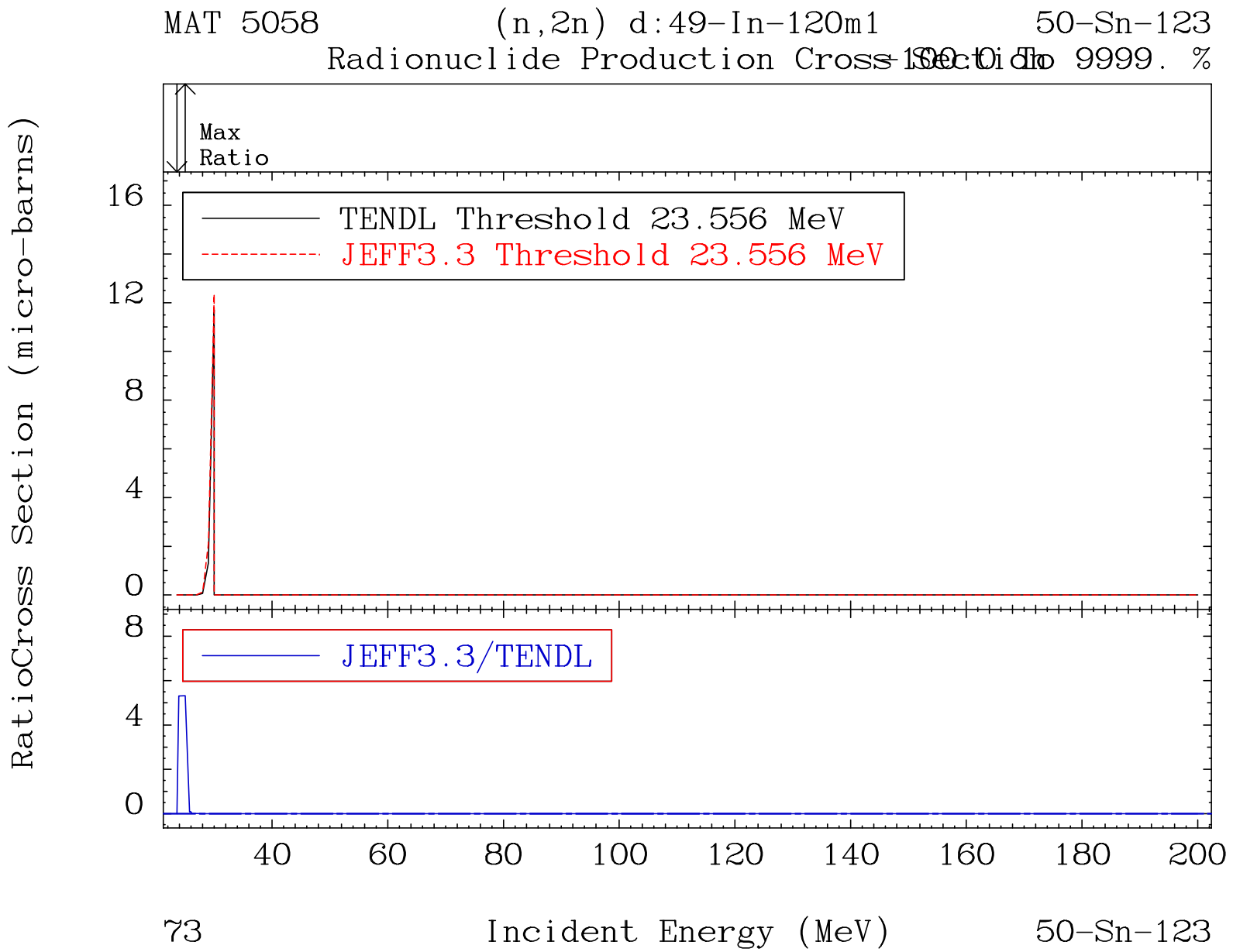

MAT 5058
Dpa inelastic (mt51-91)
50-Sn-123
Cross Section -100.0 To 0.938 %
Min Ratio
Max Ratio
TENDL Threshold 24.801 keV
JEFF3.3 Threshold 24.801 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
50-Sn-123

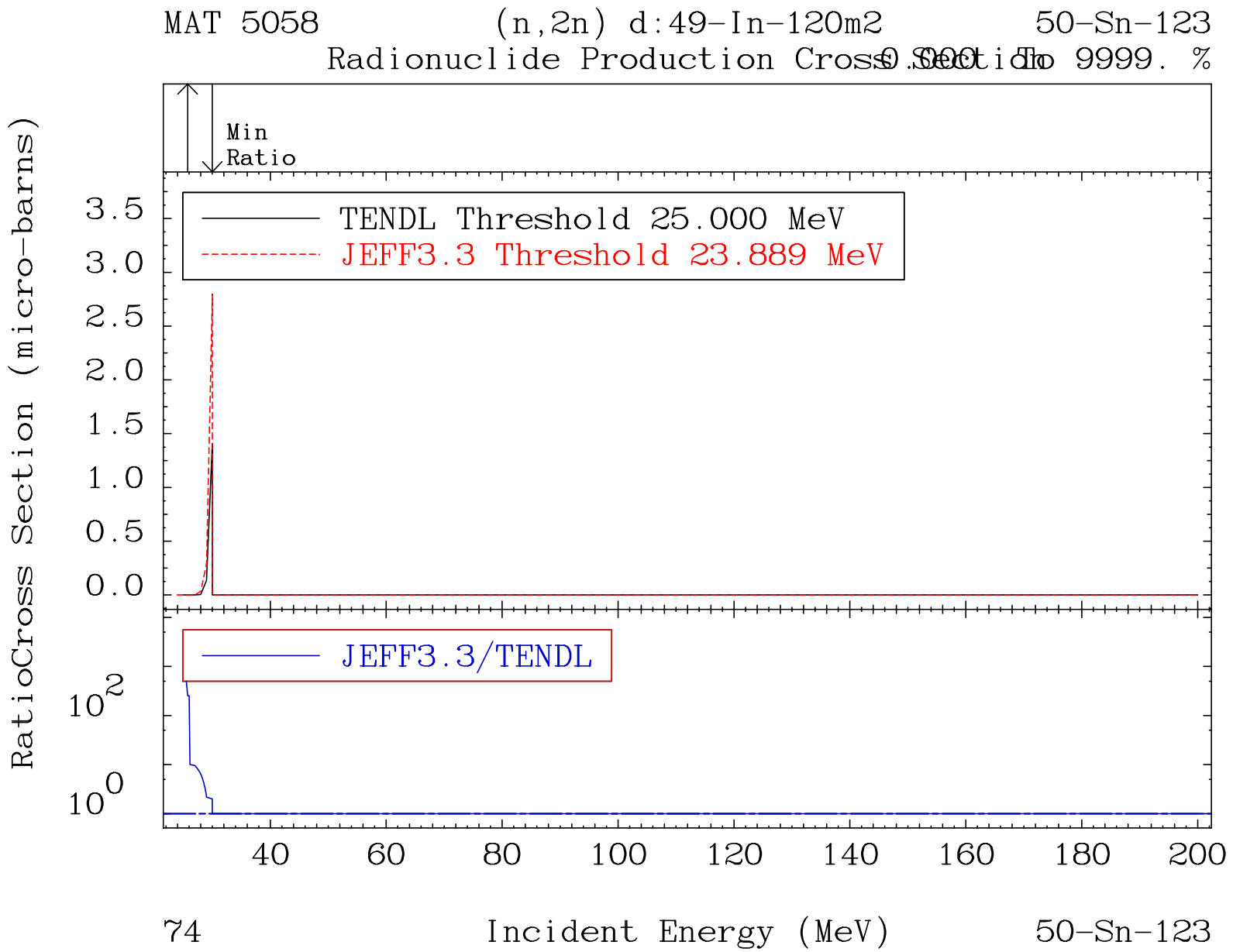

MAT 5058 Dpa disappearance (mt102 -120) 50-Sn-123
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
69
50-Sn-123

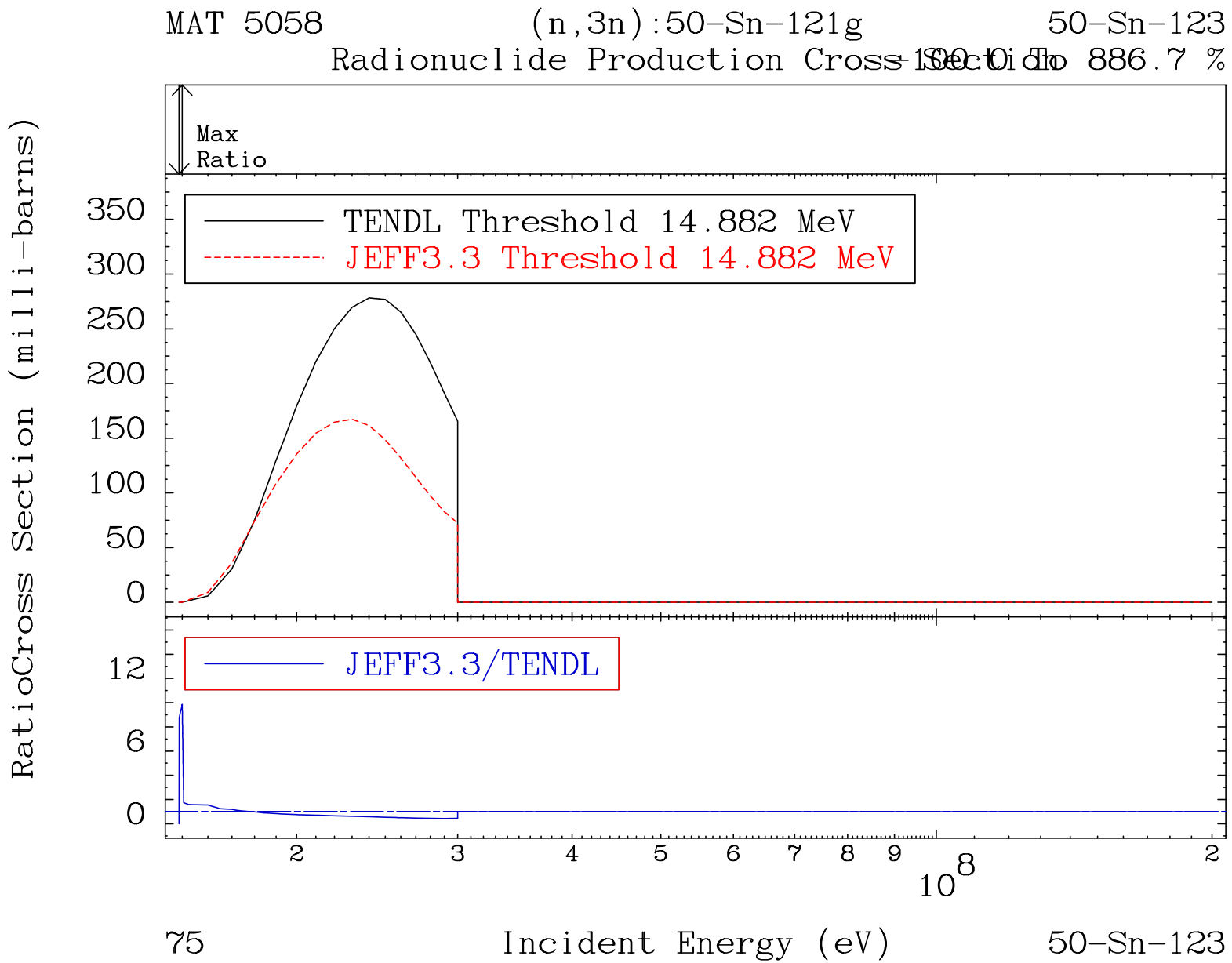

MAT 5058
Inelastic:50-Sn-123g
50-Sn-123
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 600.00 keV
JEFF3.3 Threshold 600.00 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
70
50-Sn-123

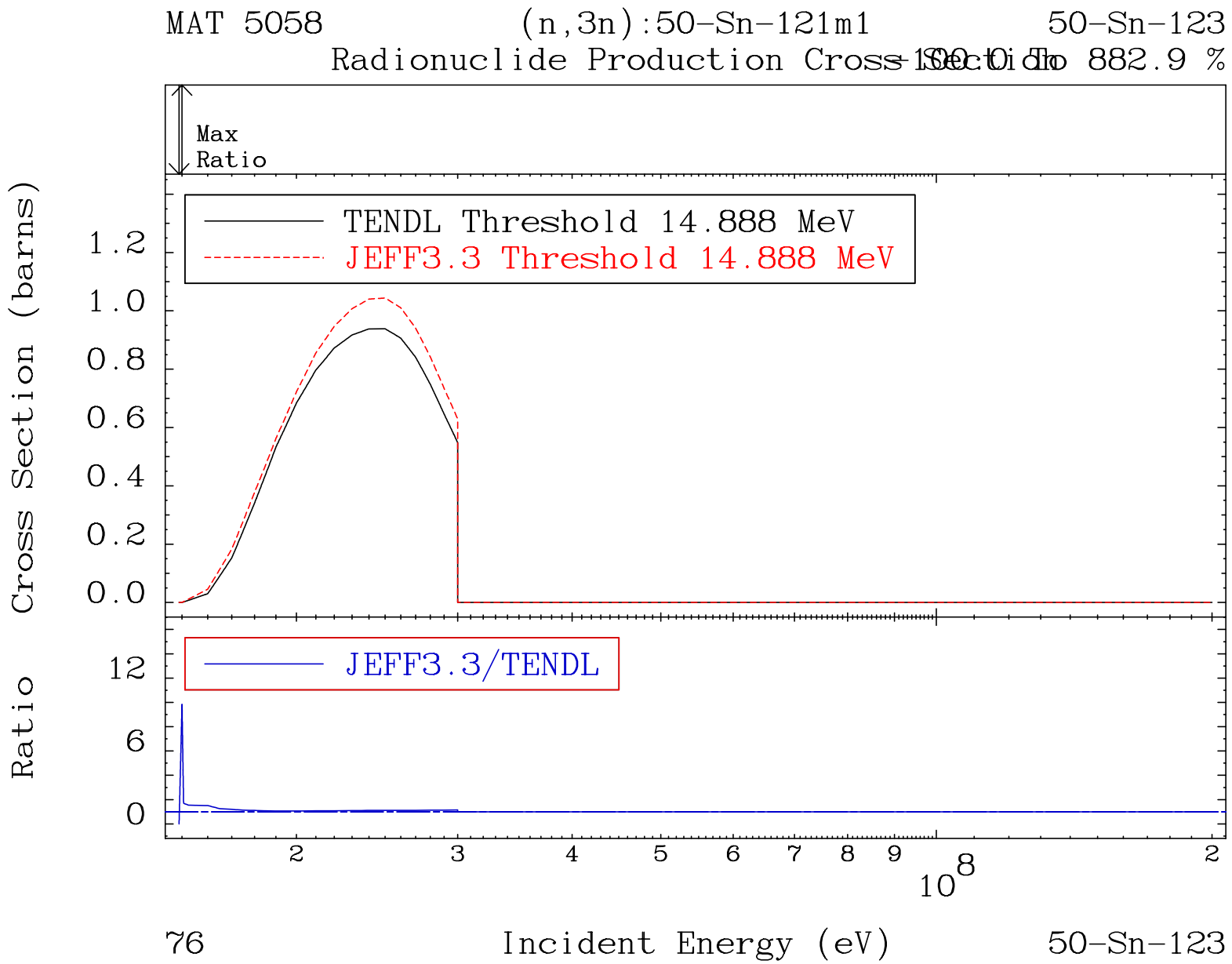

MAT 5058
Inelastic:50-Sn-123m1
50-Sn-123
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 24.802 keV
JEFF3.3 Threshold 24.802 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
1.2
0.6
0.0
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
71
Incident Energy (eV)
50-Sn-123

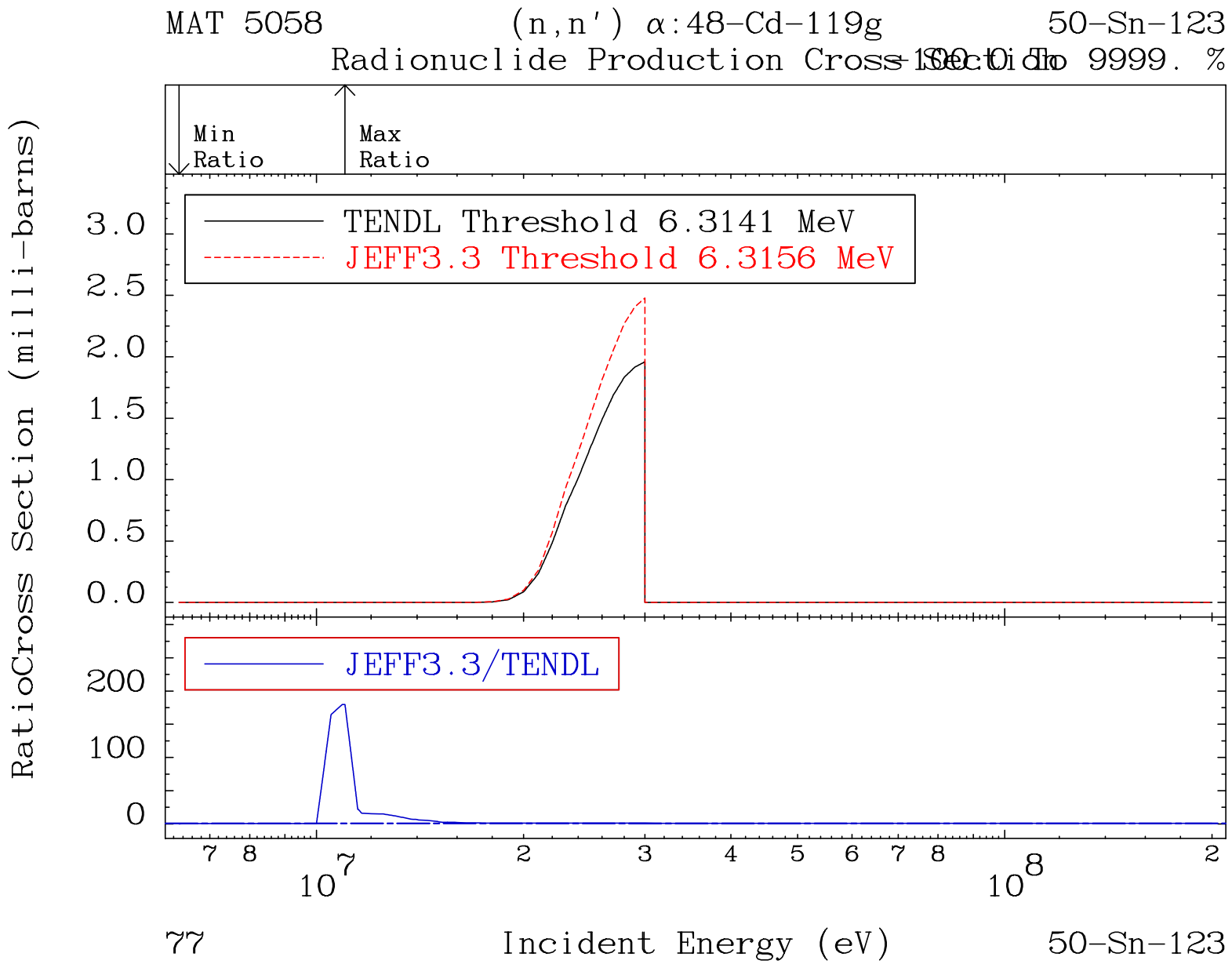

MAT 5058
(n,2n) d:49-In-120g
50-Sn-123
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 23.485 MeV
JEFF3.3 Threshold 23.485 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
16
12
8
4
0
12
6
0
40
60
80
100
120
140
160
180
200
72
Incident Energy (MeV)
50-Sn-123

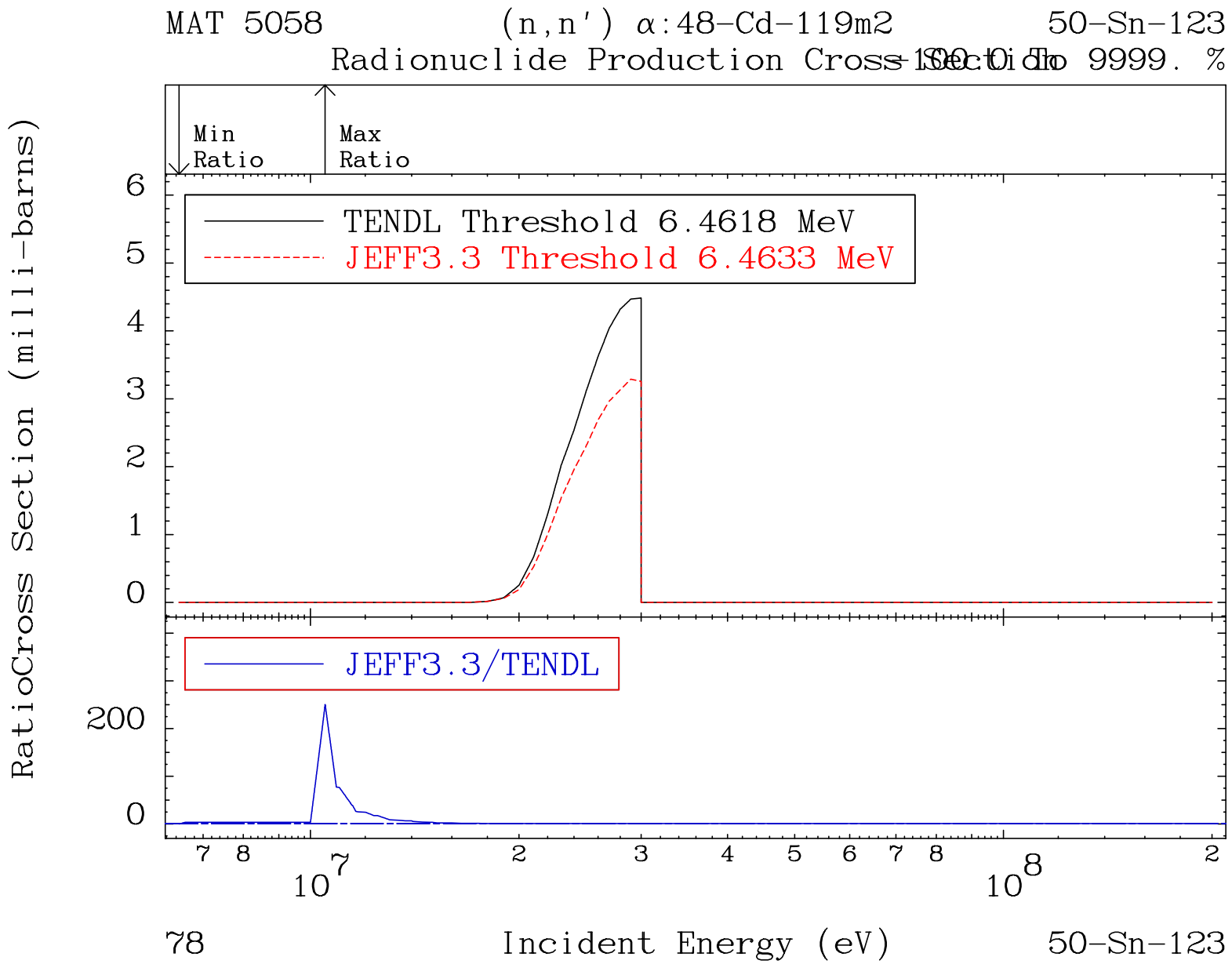

MAT 5058
(n,2n) d:49-In-120m1
50-Sn-123
Radionuclide Production Cross Section
Uncertainty To 9999. %
Max
Ratio
TENDL Threshold 23.556 MeV
JEFF3.3 Threshold 23.556 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
16
12
8
4
0
8
4
0
40
60
80
100
120
140
160
180
200
73
Incident Energy (MeV)
50-Sn-123

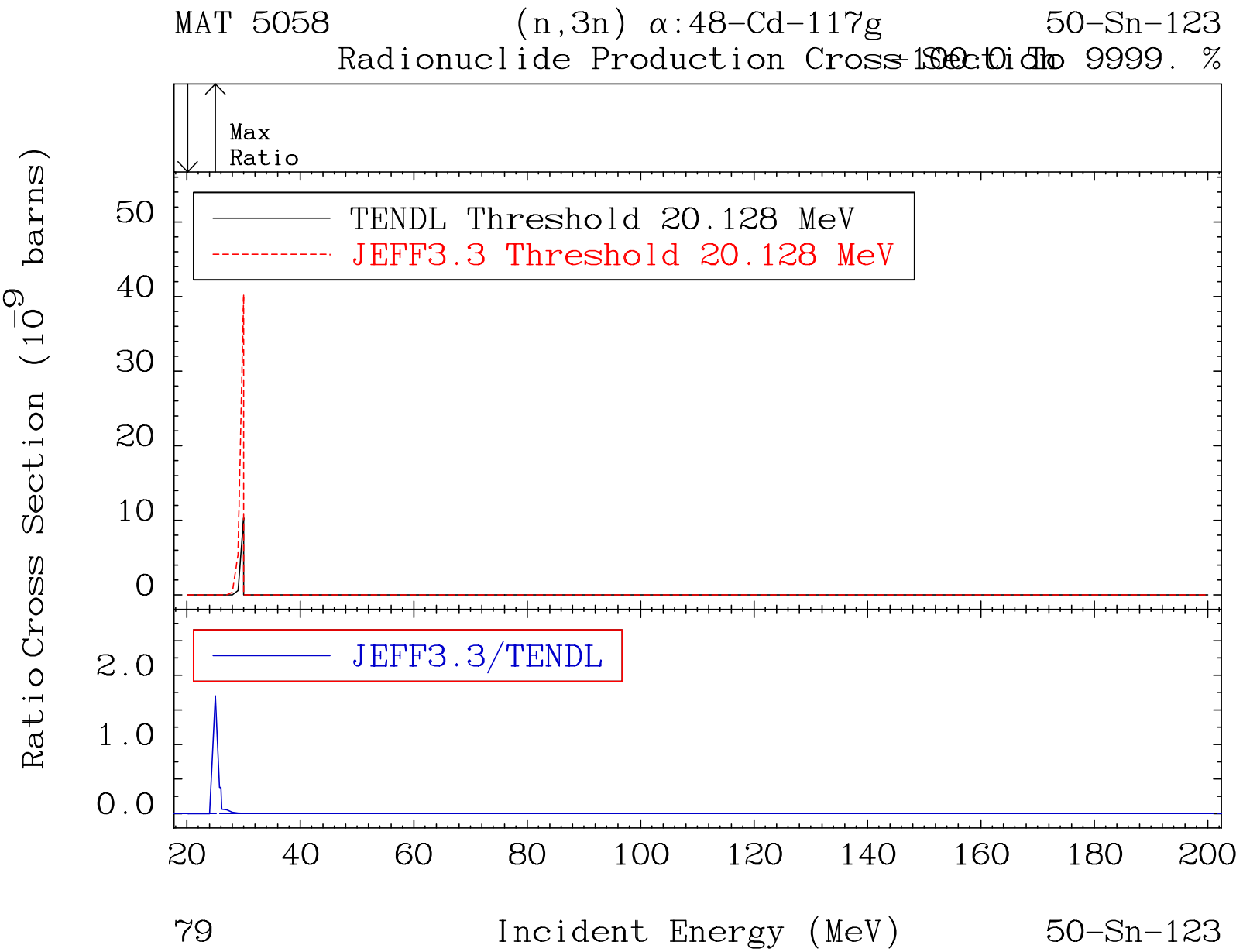

MAT 5058
(n,2n) d:49-In-120m2
50-Sn-123
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 25.000 MeV
JEFF3.3 Threshold 23.889 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10^2
10^0
40
60
80
100
120
140
160
180
200
74
Incident Energy (MeV)
50-Sn-123

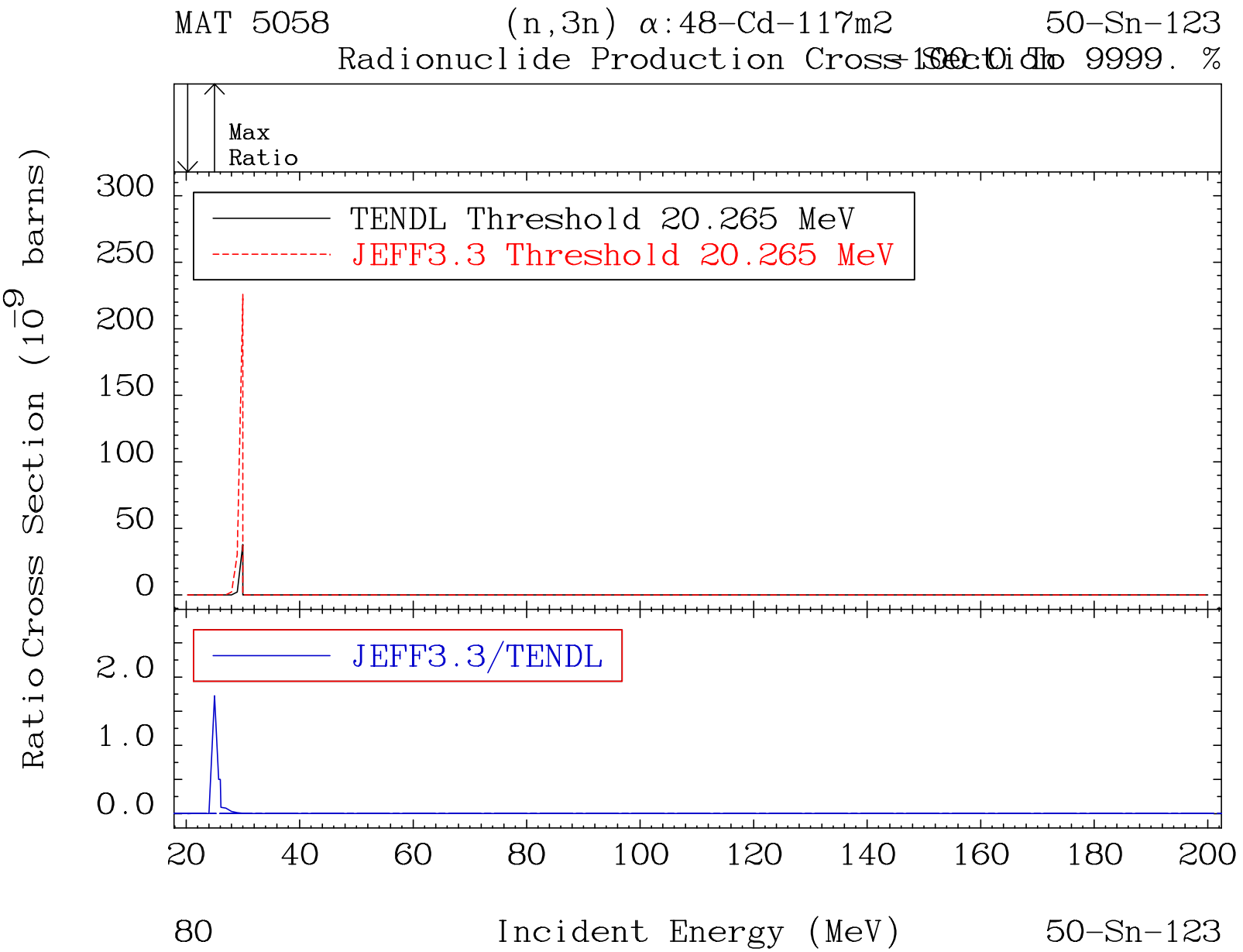

MAT 5058
(n,3n):50-Sn-121g
50-Sn-123
Radionuclide Production Cross Section To 886.7 %
Max
Ratio
TENDL Threshold 14.882 MeV
JEFF3.3 Threshold 14.882 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
12
6
0
2
3
4
5
6
7
8
9
10^8
2
75
Incident Energy (eV)
50-Sn-123

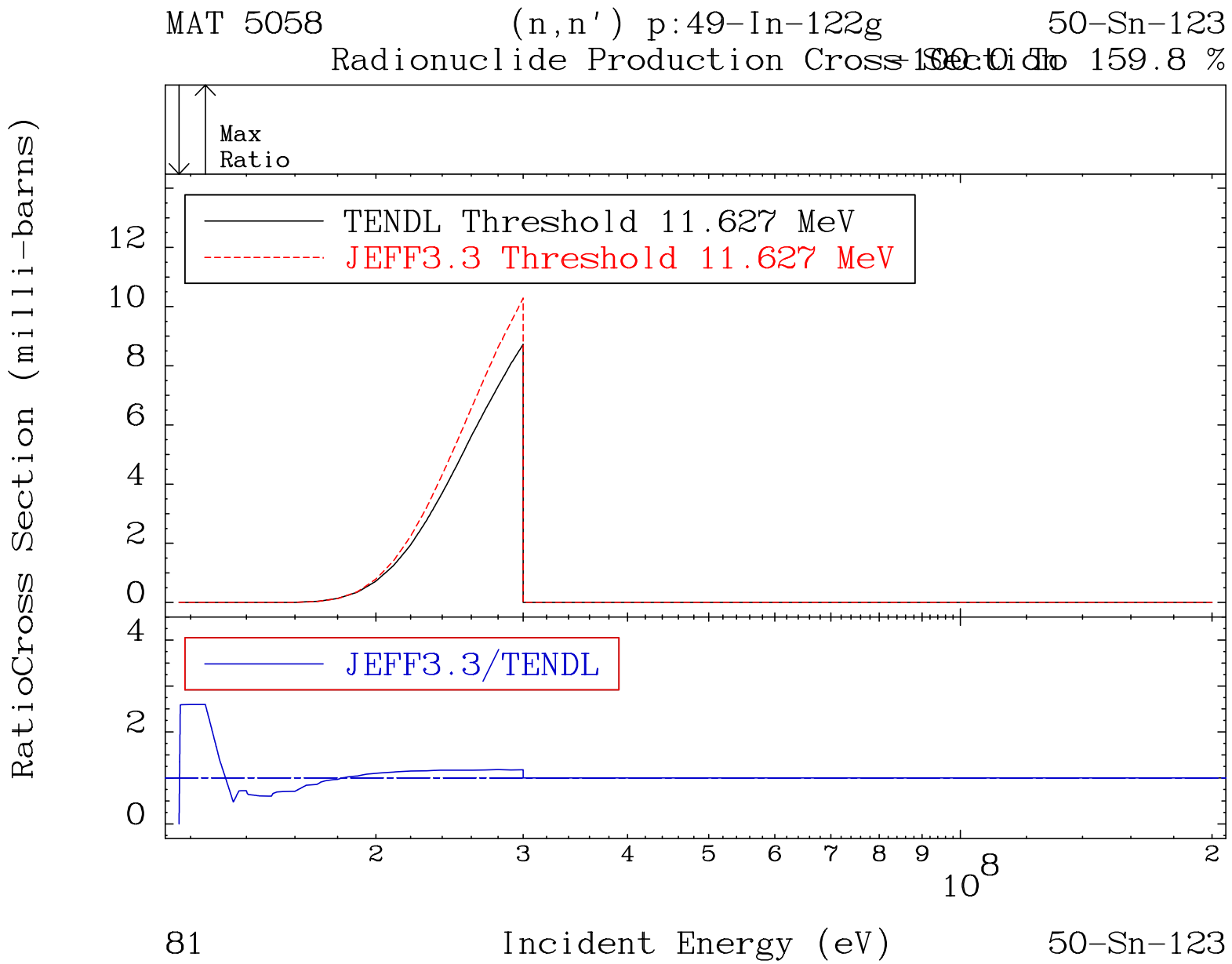

MAT 5058
(n,3n):50-Sn-121m1
50-Sn-123
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 14.888 MeV
JEFF3.3 Threshold 14.888 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
12
6
0
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
50-Sn-123

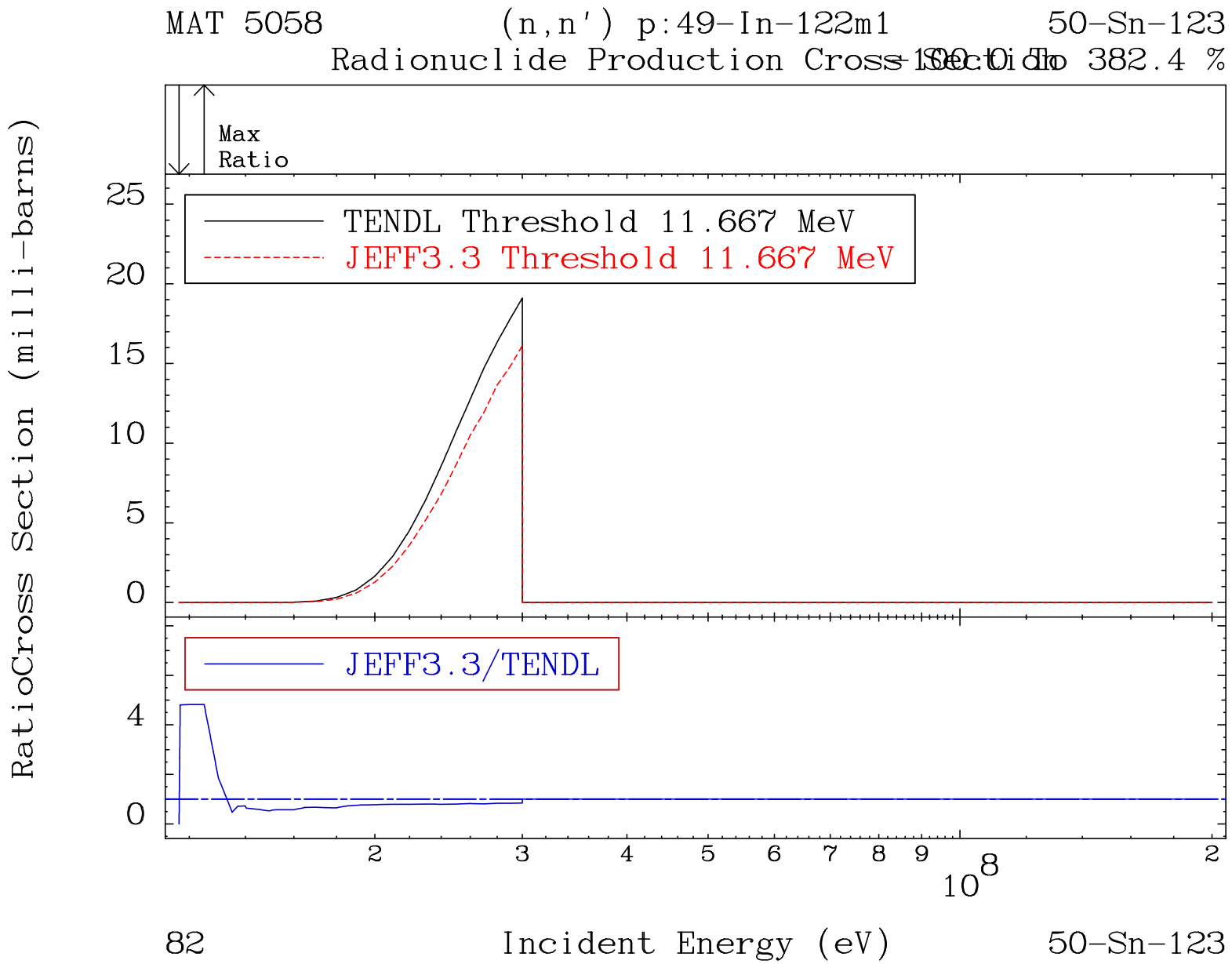

MAT 5058
(n,n') α:48-Cd-119g
50-Sn-123
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.3141 MeV
JEFF3.3 Threshold 6.3156 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
200
100
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
77
Incident Energy (eV)
50-Sn-123

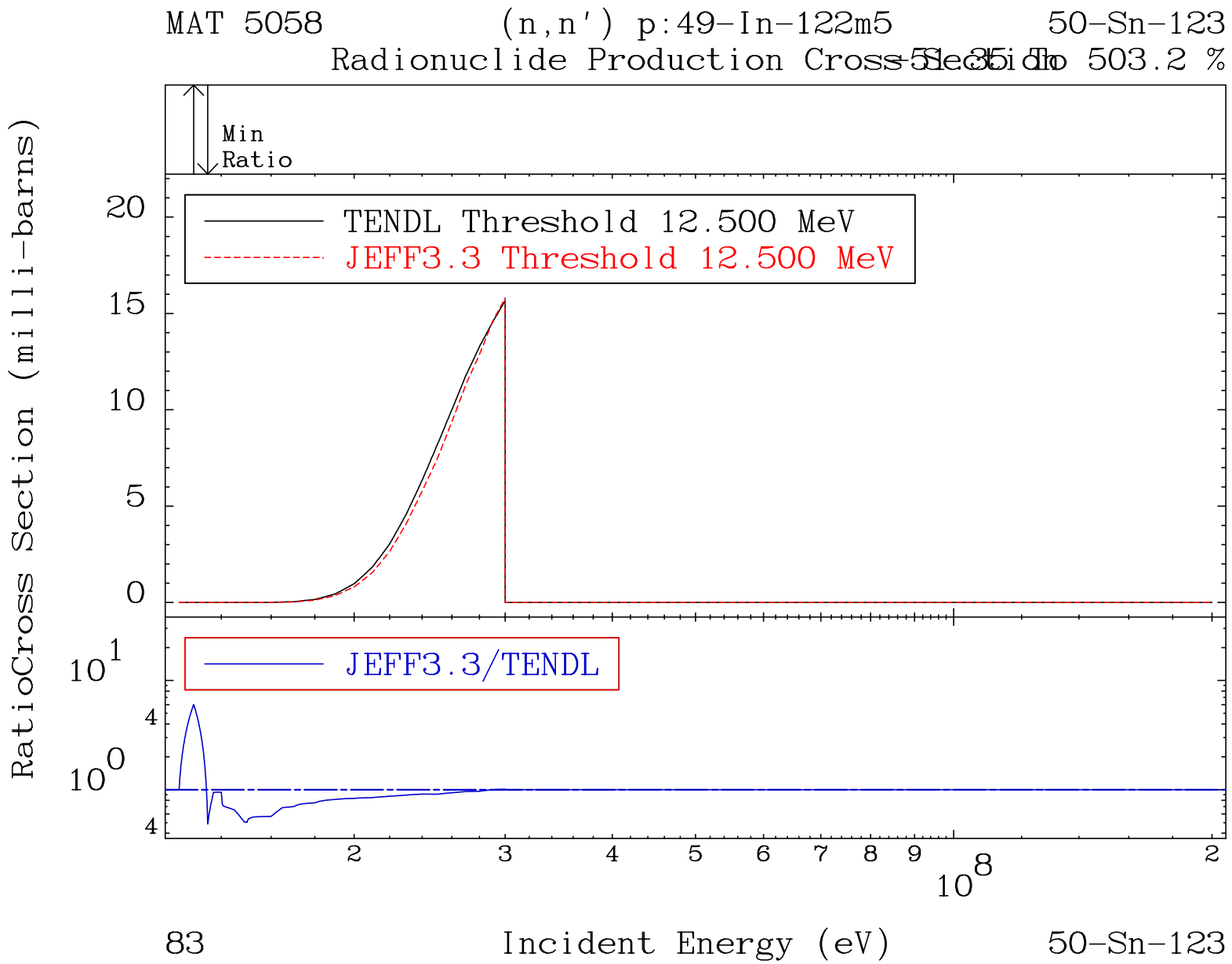

MAT 5058
(n,n') α:48-Cd-119m2
50-Sn-123
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 6.4618 MeV
JEFF3.3 Threshold 6.4633 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
78
50-Sn-123

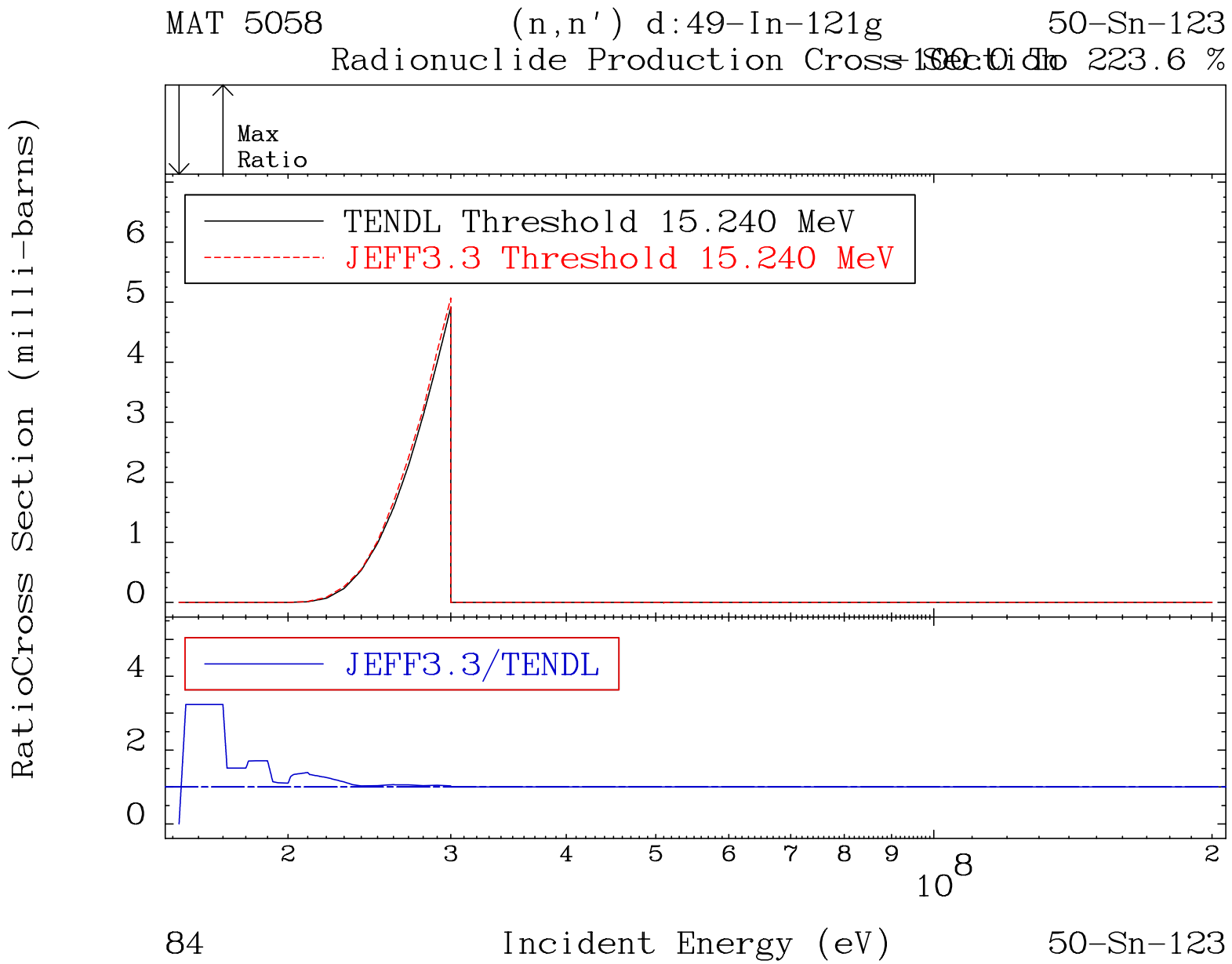

MAT 5058
(n,3n) α:48-Cd-117g
50-Sn-123
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 20.128 MeV
JEFF3.3 Threshold 20.128 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
50
40
30
20
10
0
2.0
1.0
0.0
20
40
60
80
100
120
140
160
180
200
79
Incident Energy (MeV)
50-Sn-123

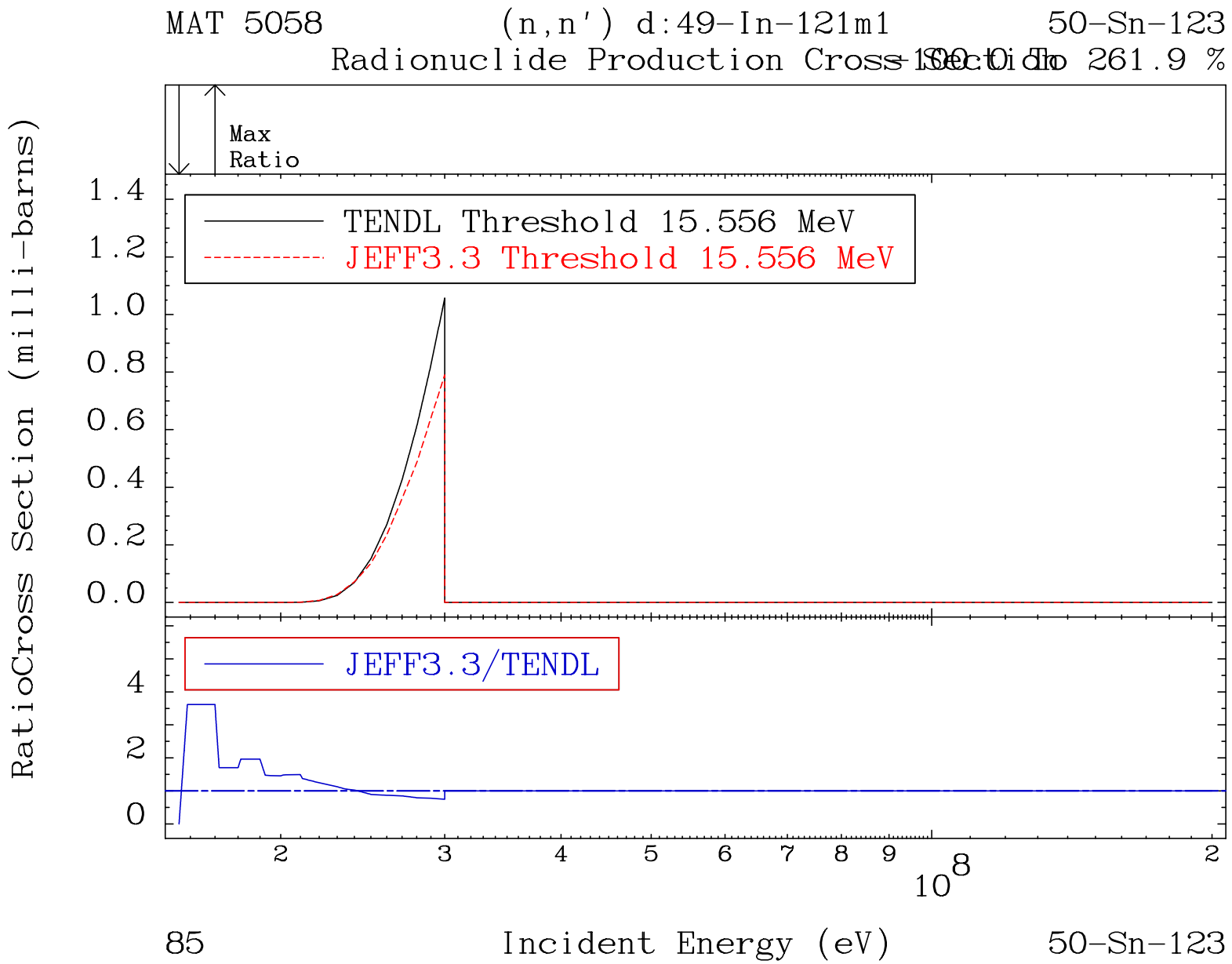

MAT 5058
(n,3n) α:48-Cd-117m2
50-Sn-123
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 20.265 MeV
JEFF3.3 Threshold 20.265 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
300
250
200
150
100
50
0
2.0
1.0
0.0
20
40
60
80
100
120
140
160
180
200
80
Incident Energy (MeV)
50-Sn-123

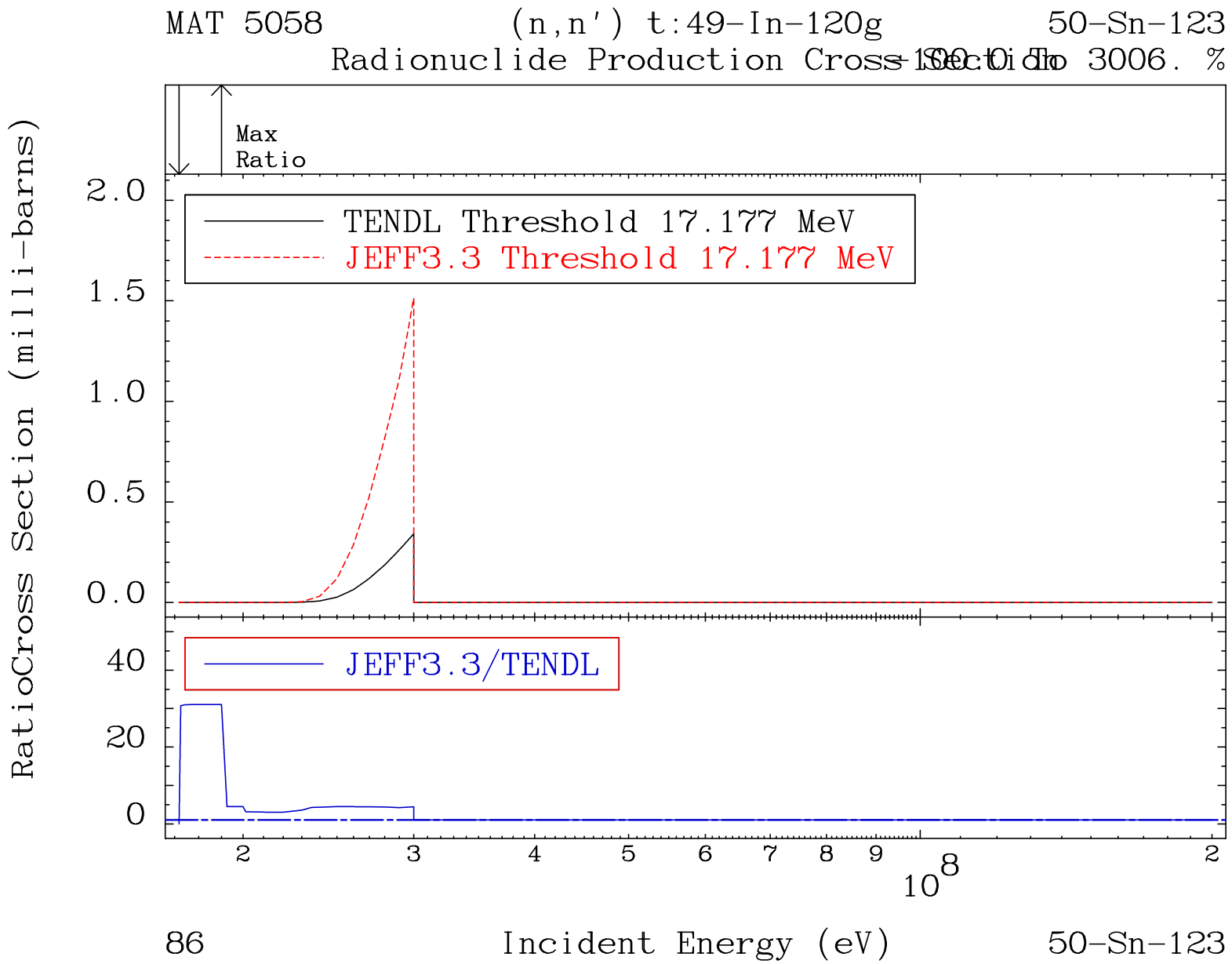

MAT 5058
(n,n') p:49-In-122g
50-Sn-123
Radionuclide Production Cross Section To 159.8 %
Max
Ratio
TENDL Threshold 11.627 MeV
JEFF3.3 Threshold 11.627 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
50-Sn-123

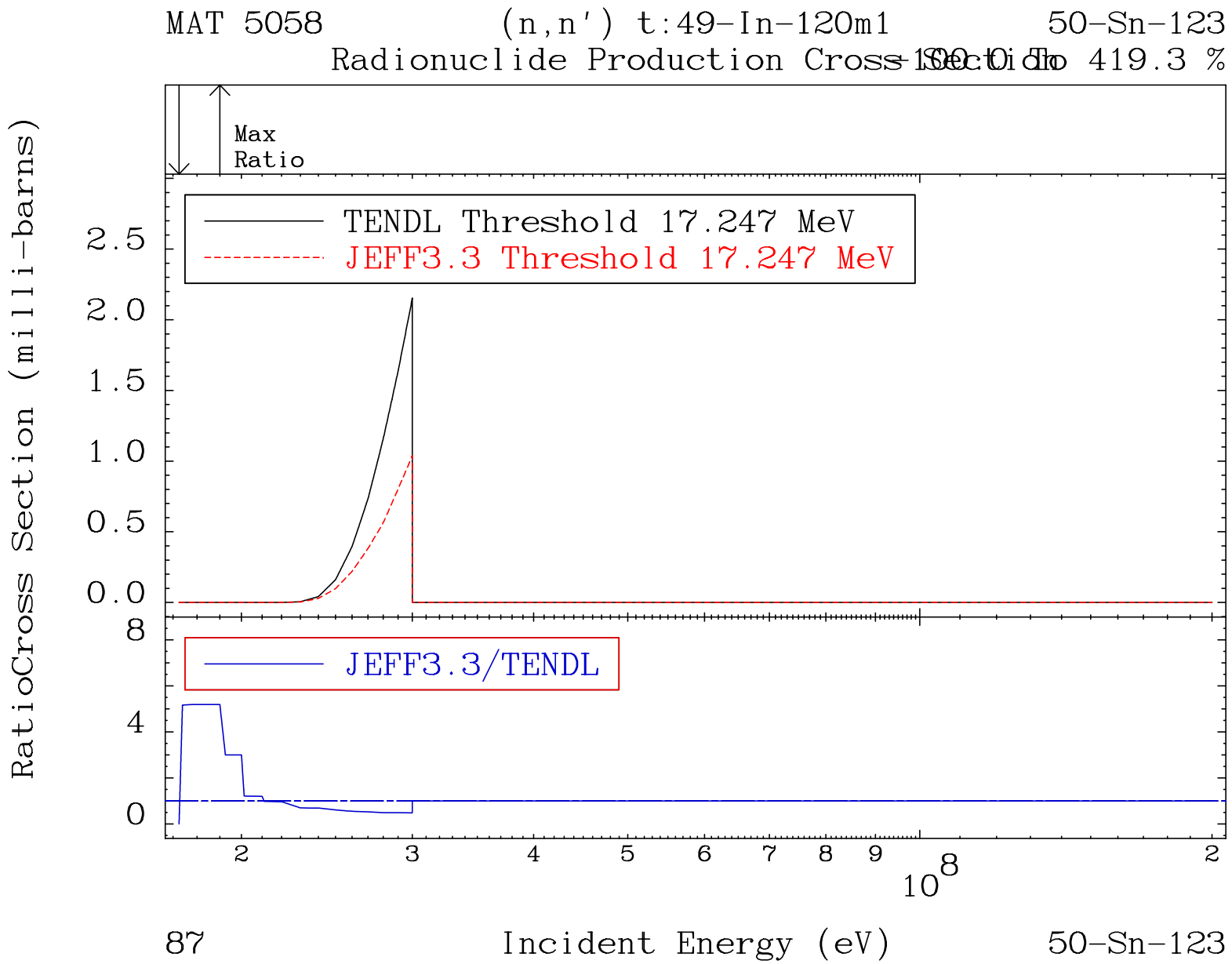

MAT 5058
(n,n') p:49-In-122m1
50-Sn-123
Radionuclide Production Cross Section To 382.4 %
Max
Ratio
TENDL Threshold 11.667 MeV
JEFF3.3 Threshold 11.667 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
4
0
2
3
4
5
6
7
8
9
2
10^8
82
Incident Energy (eV)
50-Sn-123

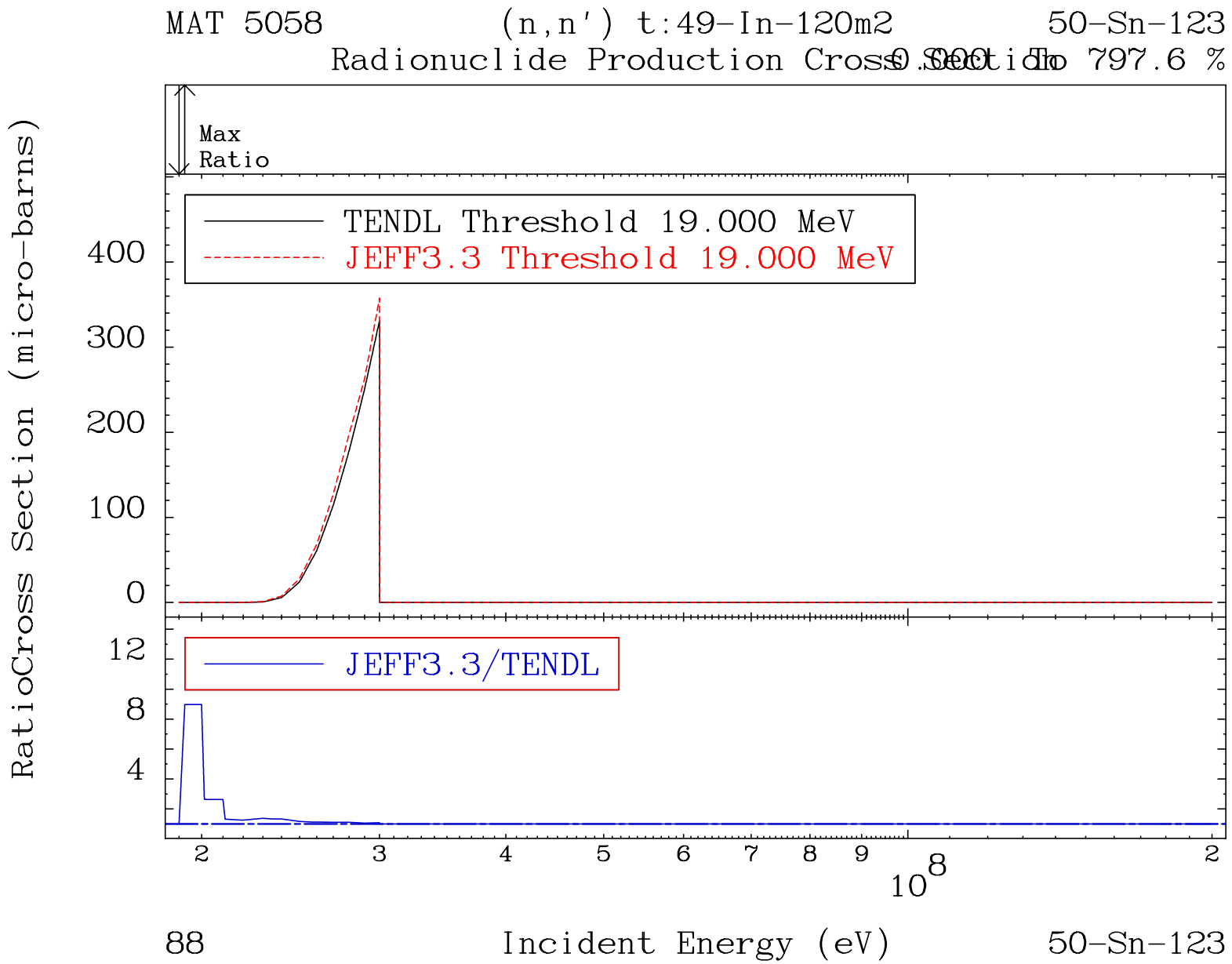

MAT 5058
(n,n') p:49-In-122m5
50-Sn-123
Radionuclide Production Cross Section To 503.2 %
Min
Ratio
TENDL Threshold 12.500 MeV
JEFF3.3 Threshold 12.500 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
83
50-Sn-123

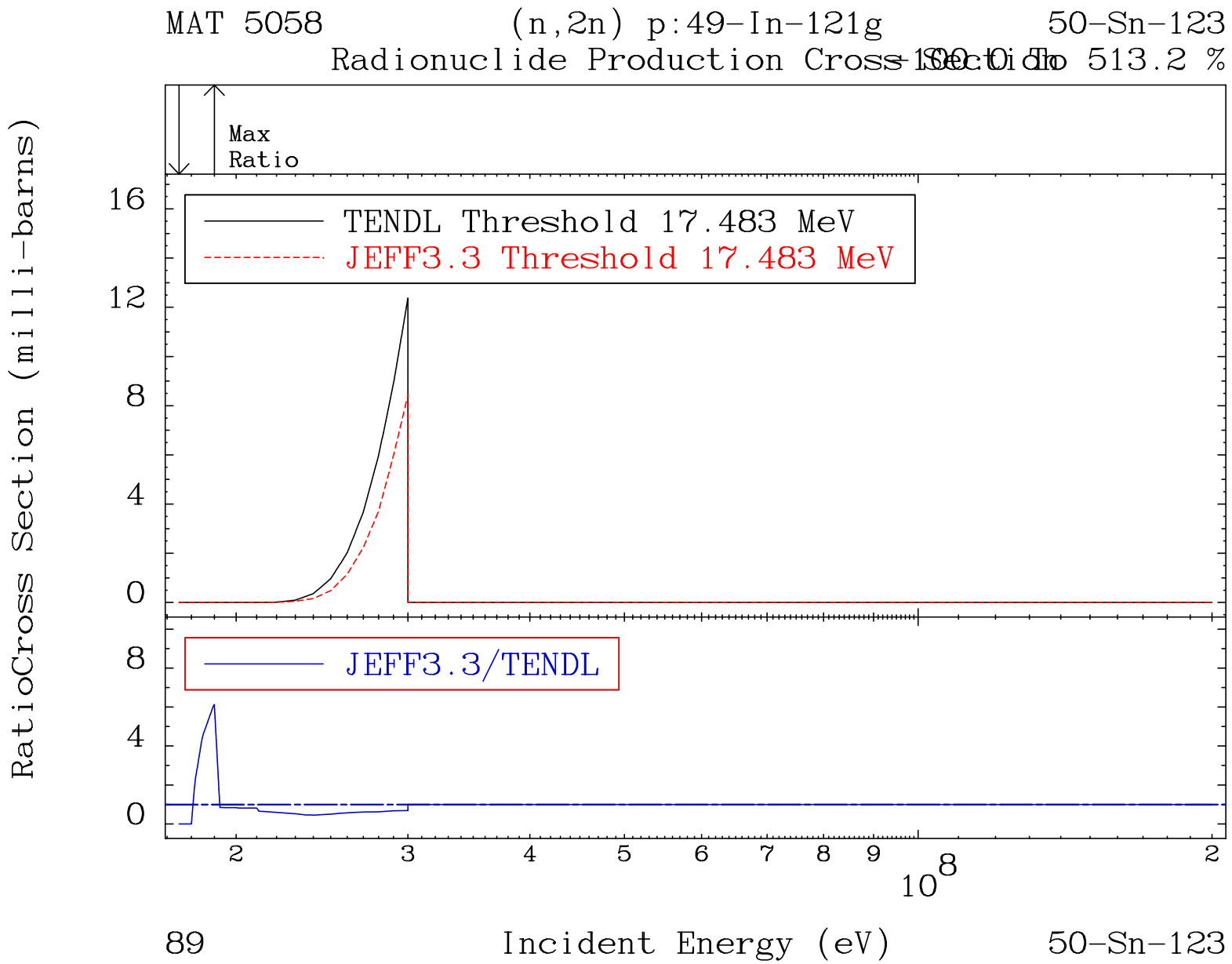

MAT 5058
(n,n') d:49-In-121g
50-Sn-123
Radionuclide Production Cross Section To 223.6 %
Max
Ratio
TENDL Threshold 15.240 MeV
JEFF3.3 Threshold 15.240 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
6
0
2
4
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
50-Sn-123

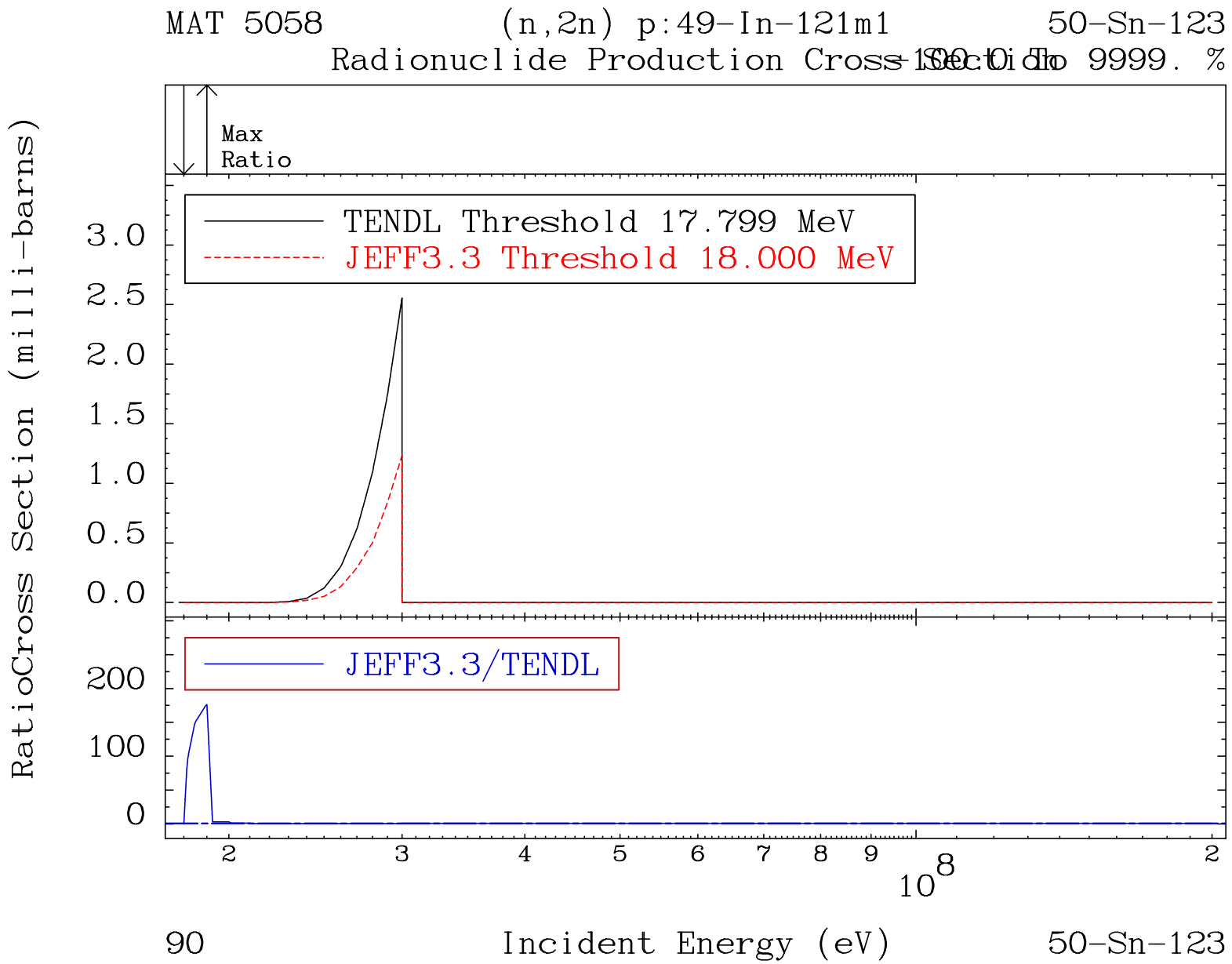

MAT 5058
(n,n') d:49-In-121m1
50-Sn-123
Radionuclide Production Cross Section To 261.9 %
Max
Ratio
TENDL Threshold 15.556 MeV
JEFF3.3 Threshold 15.556 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
50-Sn-123

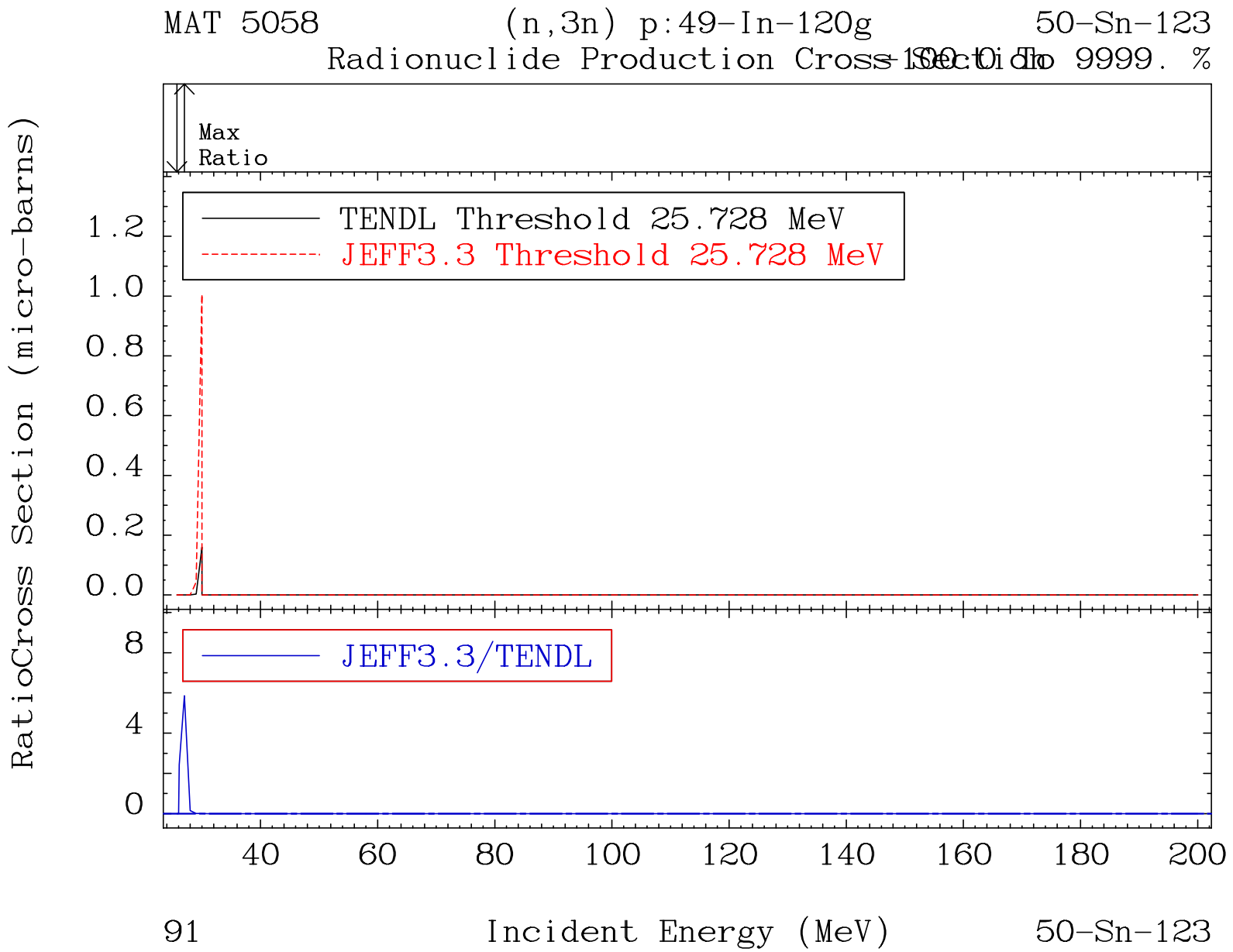

MAT 5058
(n,n') t:49-In-120g
50-Sn-123
Radionuclide Production Cross Section To 3006. %
Max
Ratio
2.0
1.5
1.0
0.5
0.0
TENDL Threshold 17.177 MeV
JEFF3.3 Threshold 17.177 MeV
40
20
0
JEFF3.3/TENDL
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
86
Incident Energy (eV)
50-Sn-123

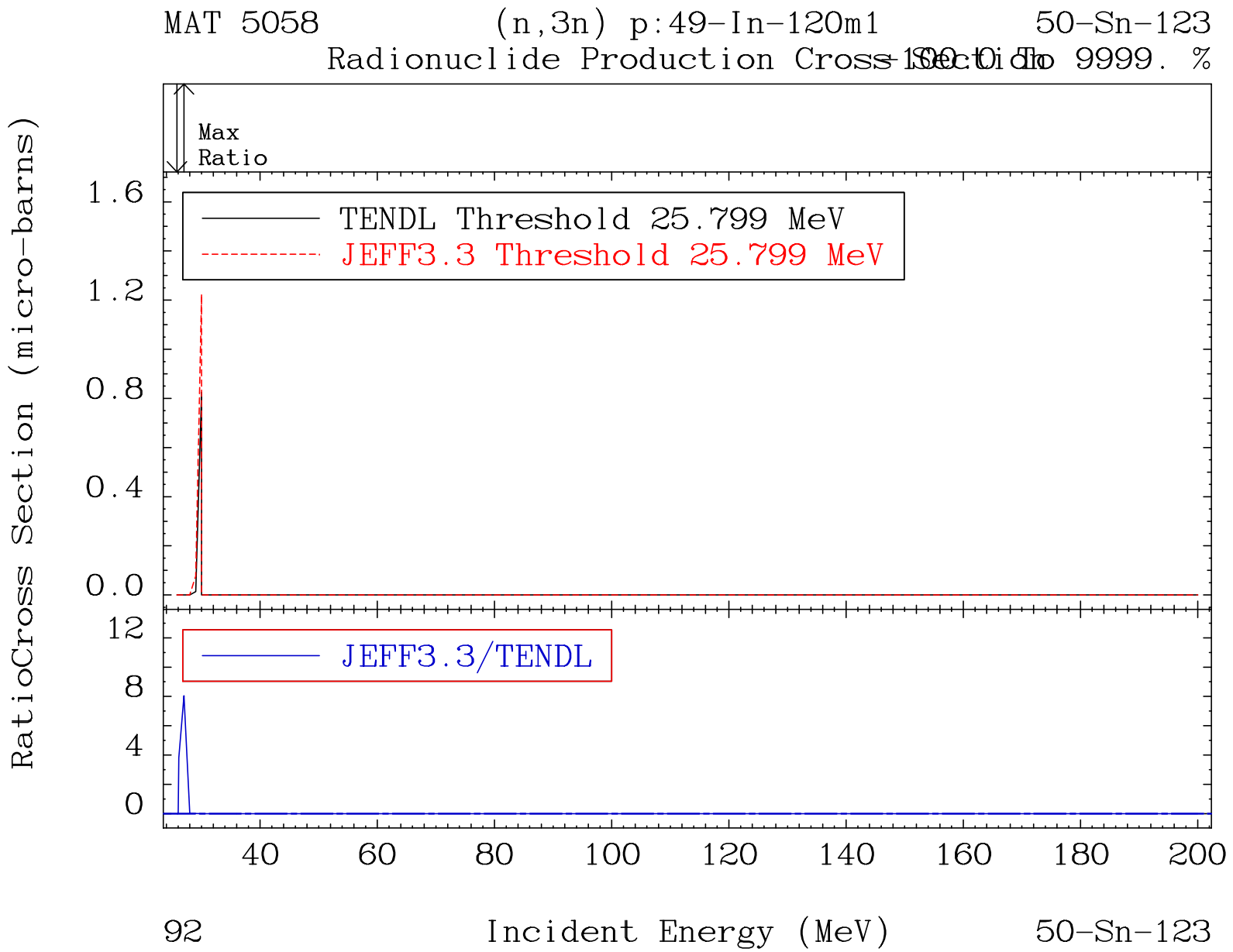

MAT 5058
(n,n') t:49-In-120m1
50-Sn-123
Radionuclide Production Cross Section To 419.3 %
Max
Ratio
TENDL Threshold 17.247 MeV
JEFF3.3 Threshold 17.247 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
50-Sn-123

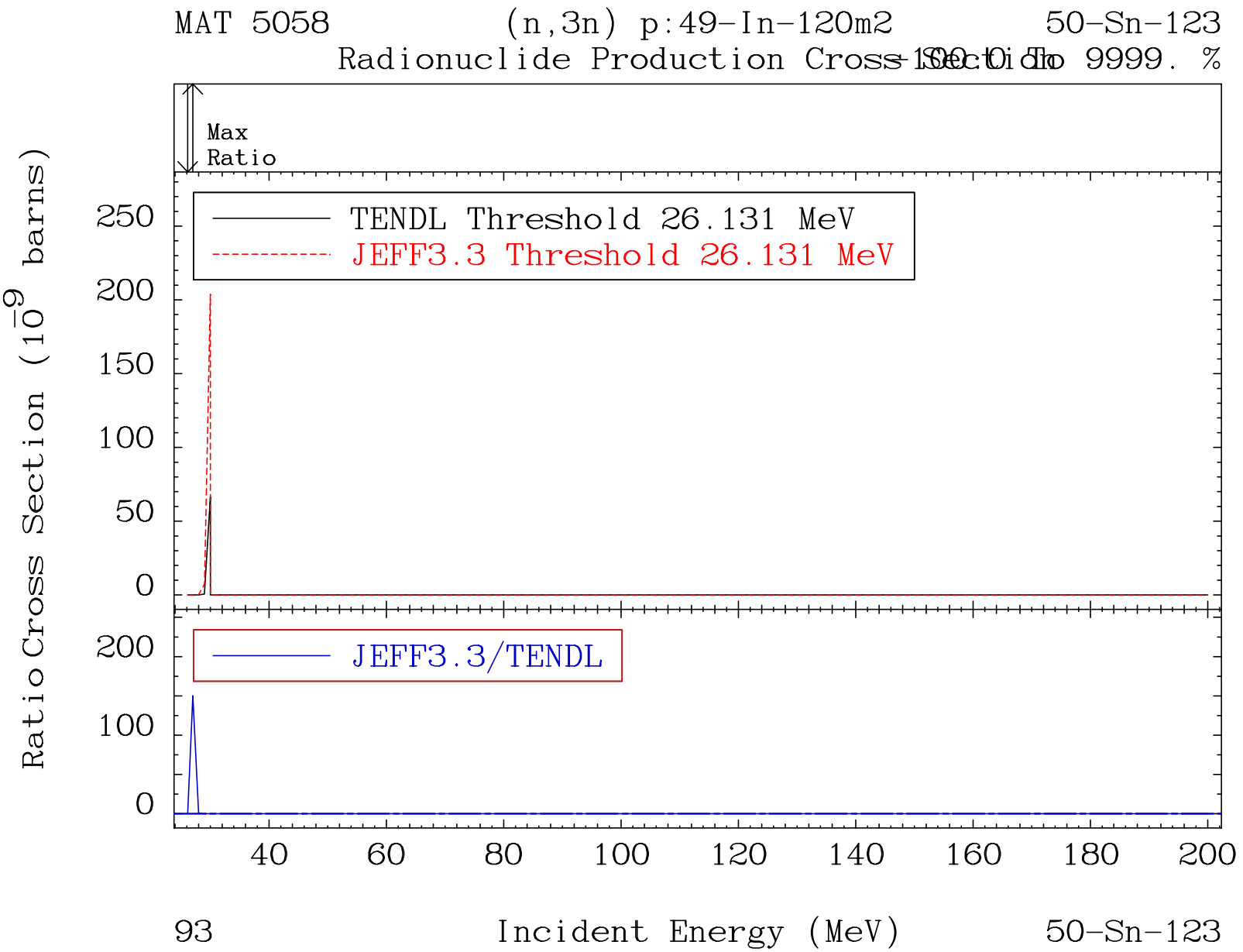

MAT 5058
(n,n') t:49-In-120m2
50-Sn-123
Radionuclide Production Cross Section
0.000 To 797.6 %
Max
Ratio
TENDL Threshold 19.000 MeV
JEFF3.3 Threshold 19.000 MeV
400
300
200
100
0
JEFF3.3/TENDL
12
8
4
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (micro-barns)
88
Incident Energy (eV)
50-Sn-123

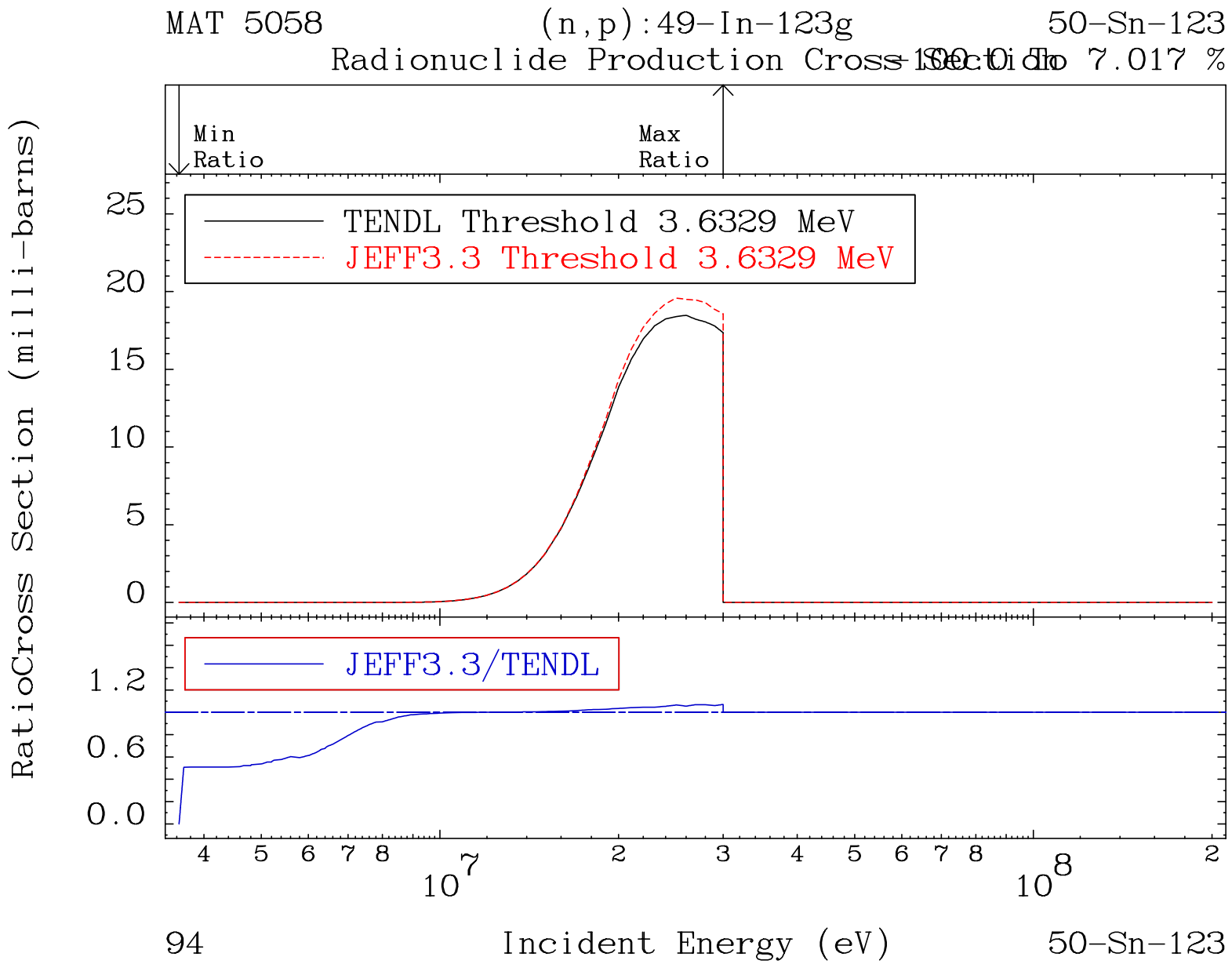

MAT 5058
(n,2n) p:49-In-121g
50-Sn-123
Radionuclide Production Cross Section To 513.2 %
Max
Ratio
TENDL Threshold 17.483 MeV
JEFF3.3 Threshold 17.483 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
50-Sn-123

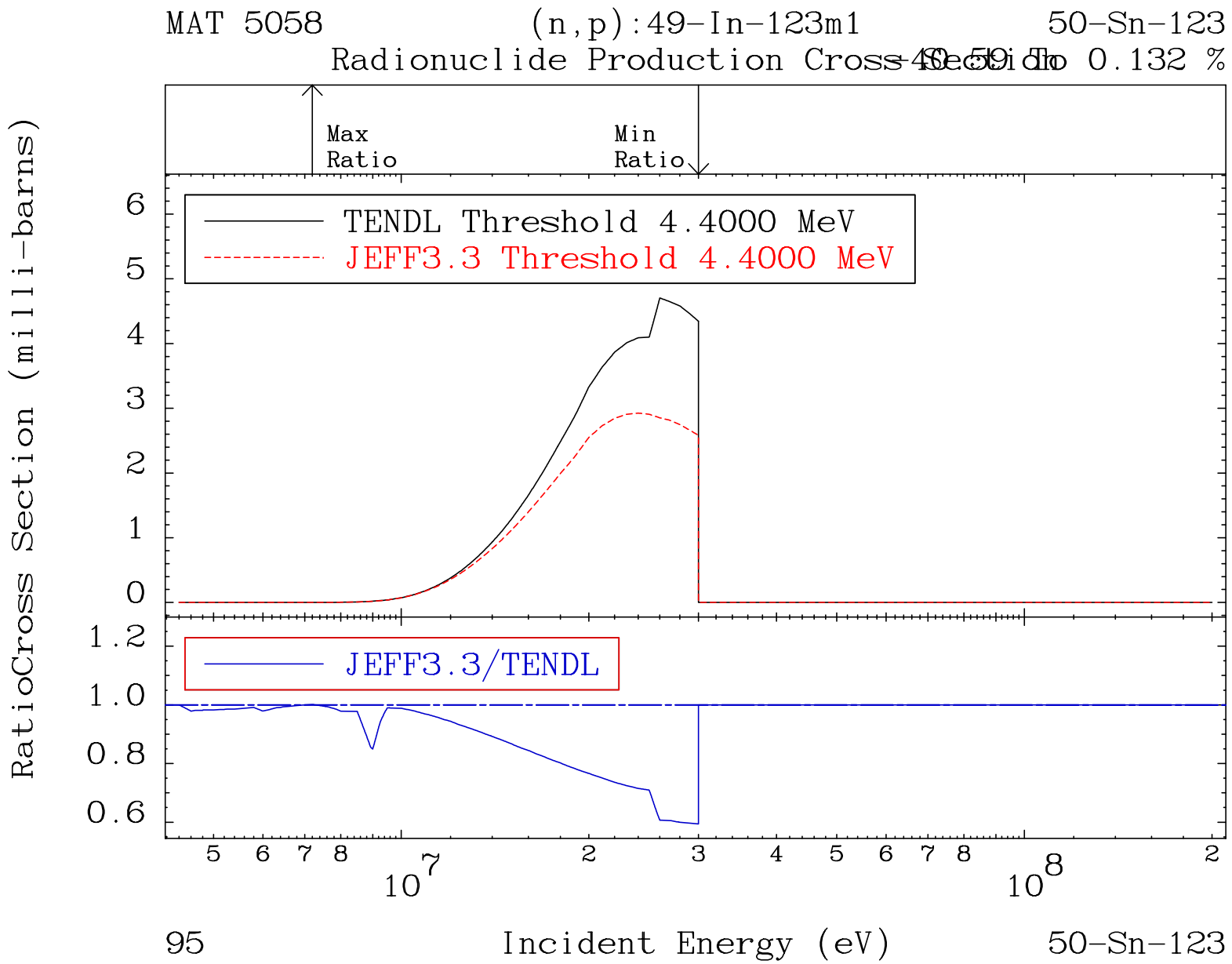

MAT 5058 (n,2n) p:49-In-121m1 50-Sn-123
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 17.799 MeV
JEFF3.3 Threshold 18.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
200
100
0
2
3
4
5
6
7
8
9
2
10^8
90
Incident Energy (eV)
50-Sn-123

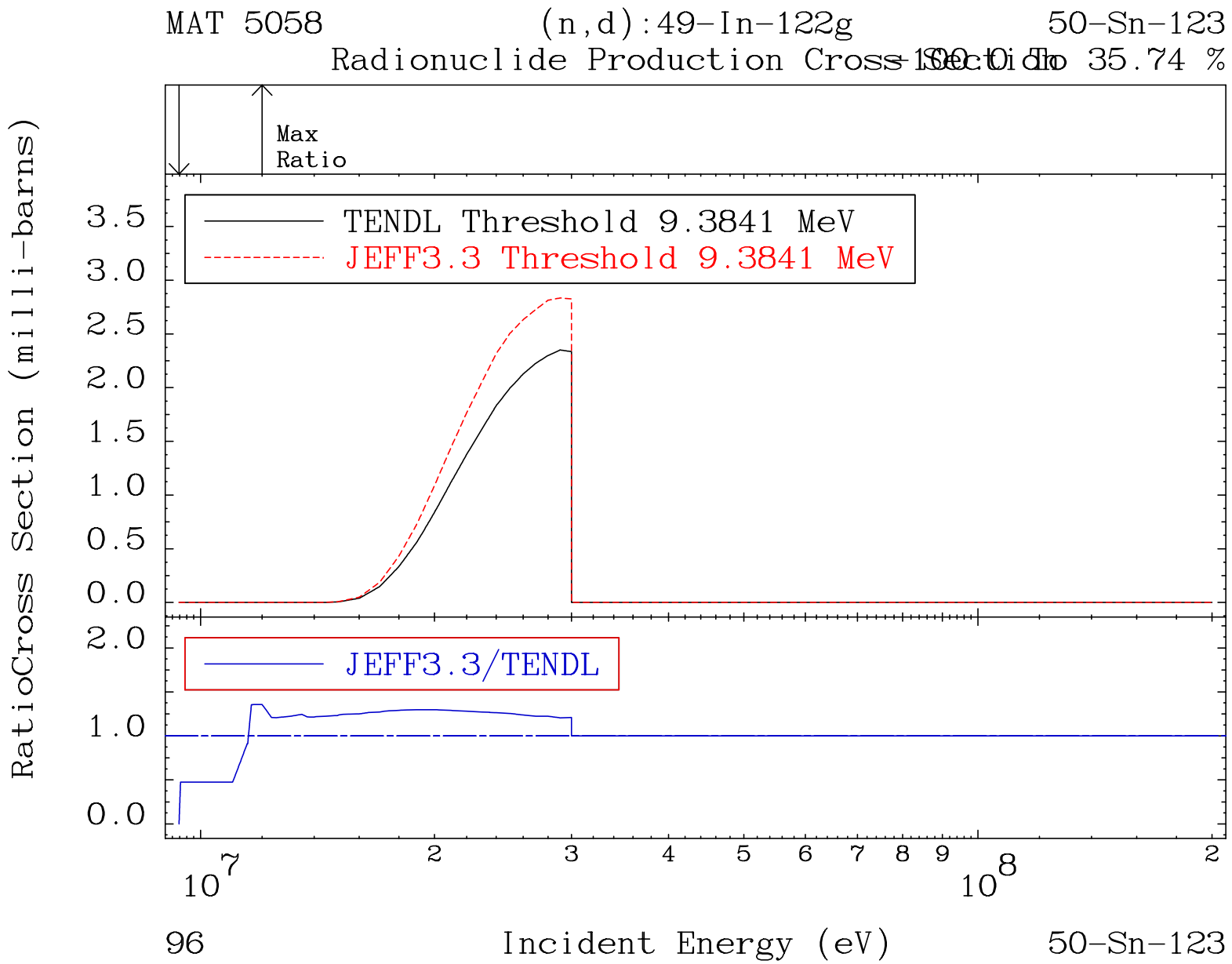

MAT 5058
(n,3n) p:49-In-120g
50-Sn-123
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 25.728 MeV
JEFF3.3 Threshold 25.728 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
8
4
0
40
60
80
100
120
140
160
180
200
91
Incident Energy (MeV)
50-Sn-123

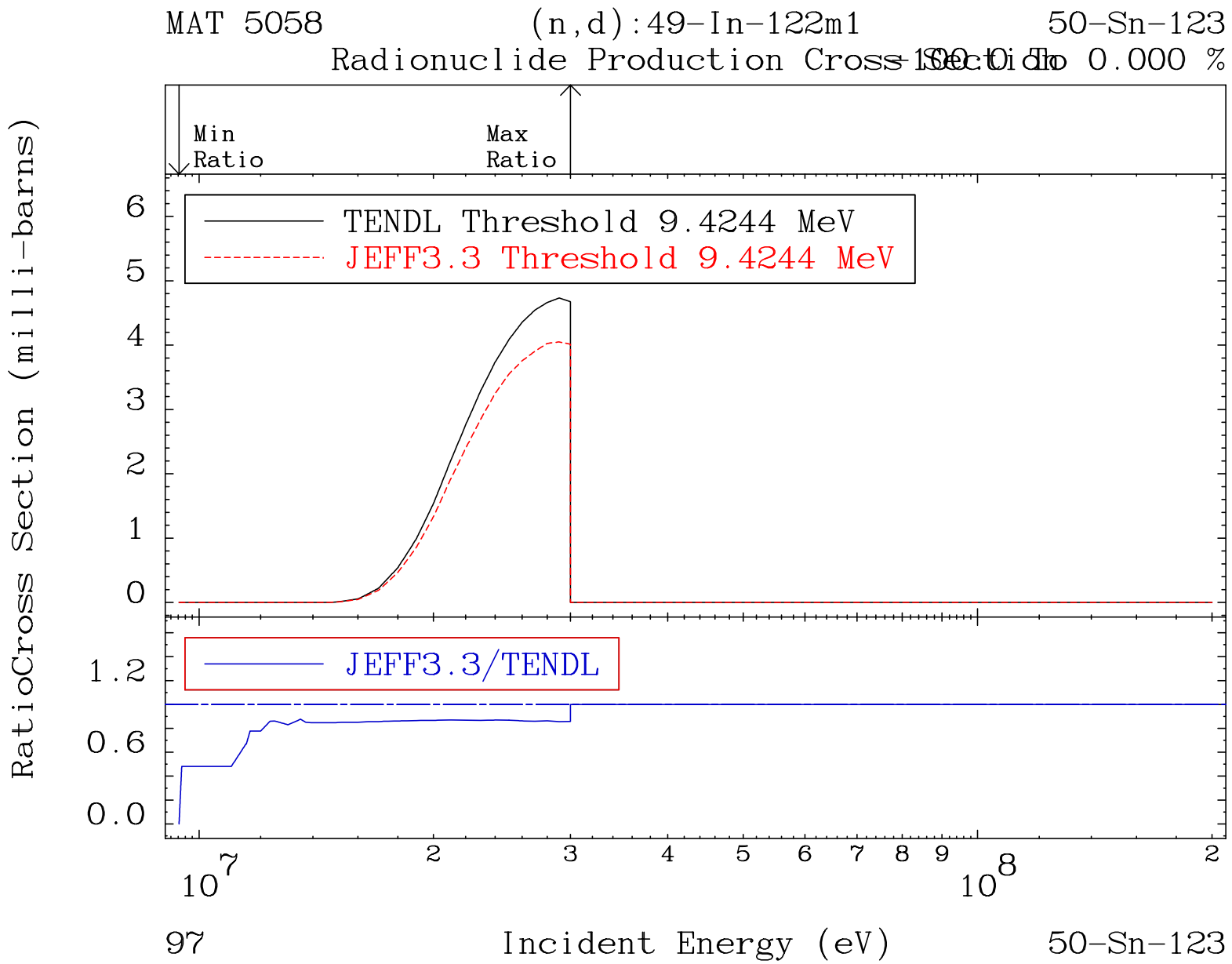

MAT 5058
(n,3n) p:49-In-120m1
50-Sn-123
Radionuclide Production Cross Section
Uncertainty To 9999. %
Max
Ratio
TENDL Threshold 25.799 MeV
JEFF3.3 Threshold 25.799 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.6
1.2
0.8
0.4
0.0
12
8
4
0
40
60
80
100
120
140
160
180
200
92
Incident Energy (MeV)
50-Sn-123

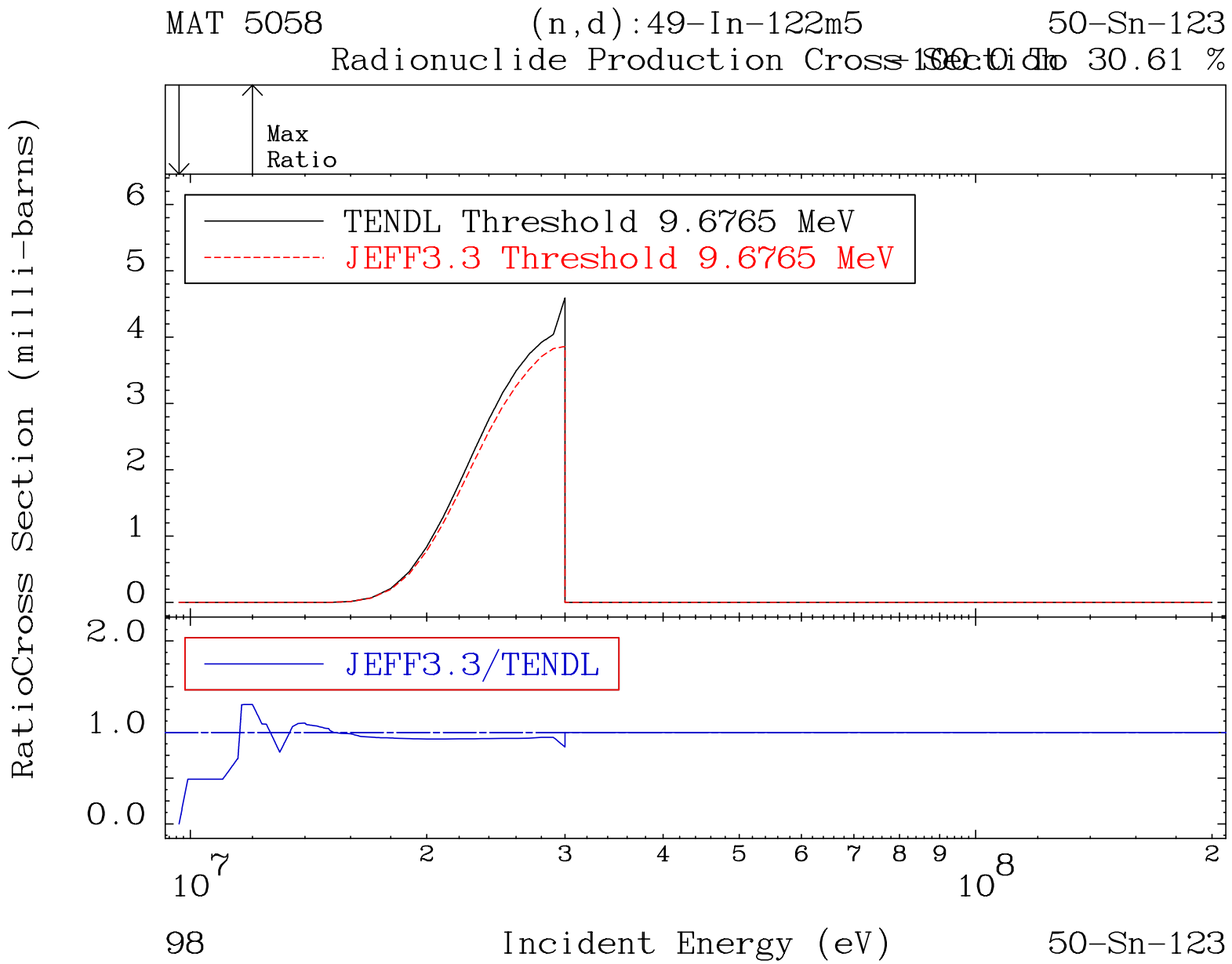

MAT 5058
(n,3n) p:49-In-120m2
50-Sn-123
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 26.131 MeV
JEFF3.3 Threshold 26.131 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
250
200
150
100
50
0
200
100
0
40
60
80
100
120
140
160
180
200
93
Incident Energy (MeV)
50-Sn-123

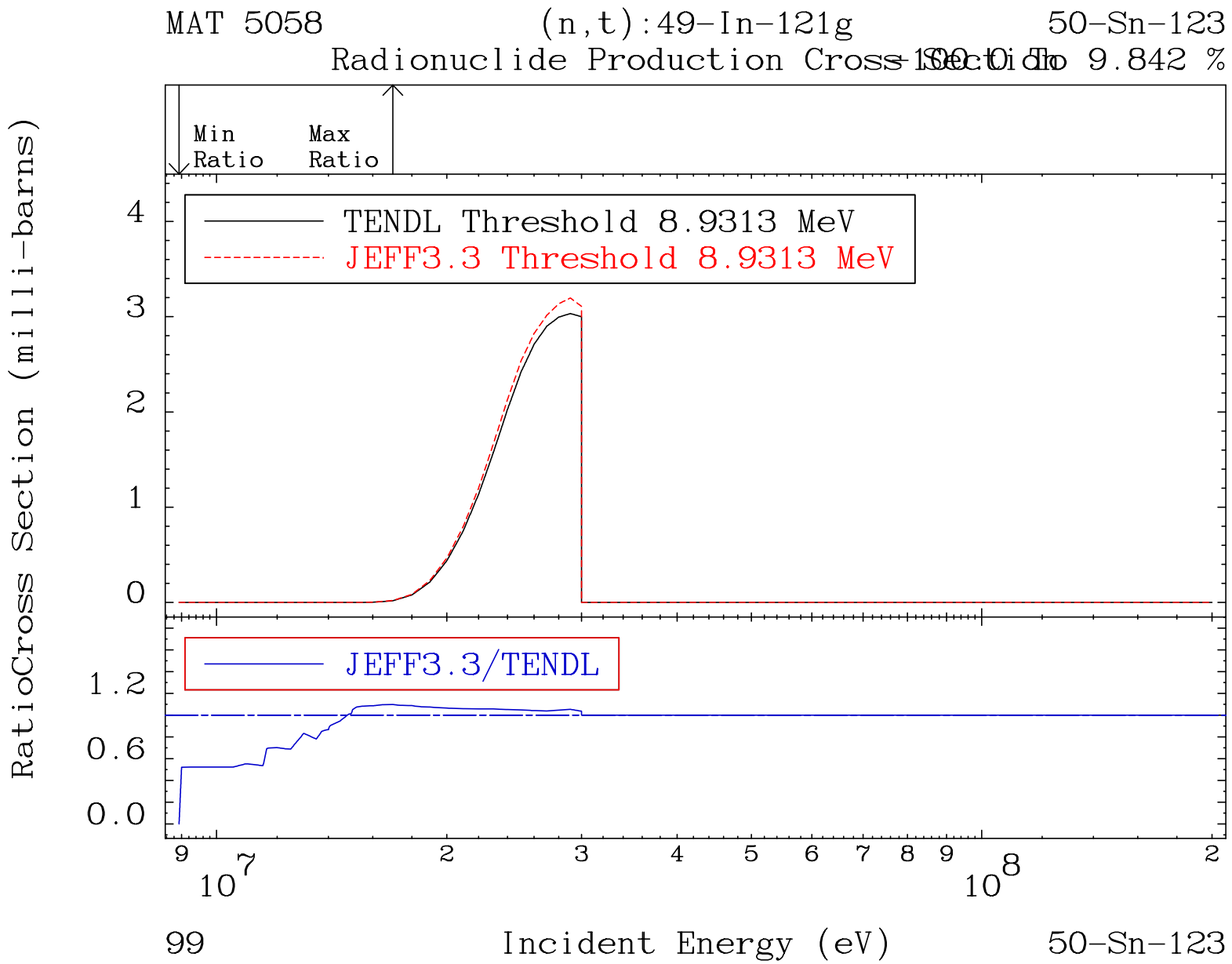

MAT 5058
(n,p):49-In-123g
50-Sn-123
Radionuclide Production Cross Section To 7.017 %
Min Ratio
Max Ratio
TENDL Threshold 3.6329 MeV
JEFF3.3 Threshold 3.6329 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.6
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
94
Incident Energy (eV)
50-Sn-123

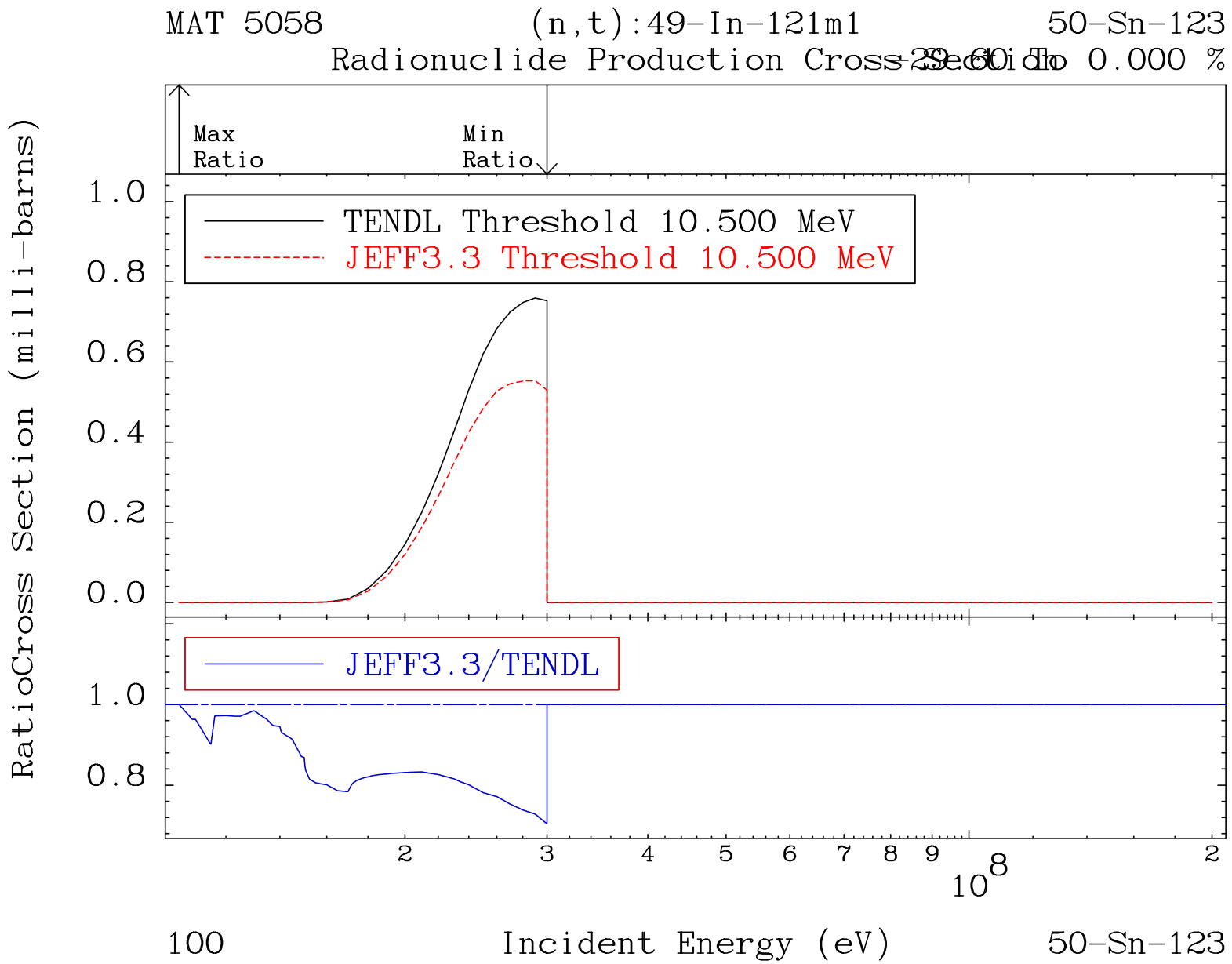

MAT 5058
(n,p):49-In-123m1
50-Sn-123
Radionuclide Production Cross-Section
49-In-123m1 To 0.132 %
Max Ratio
Min Ratio
TENDL Threshold 4.4000 MeV
JEFF3.3 Threshold 4.4000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
95
50-Sn-123

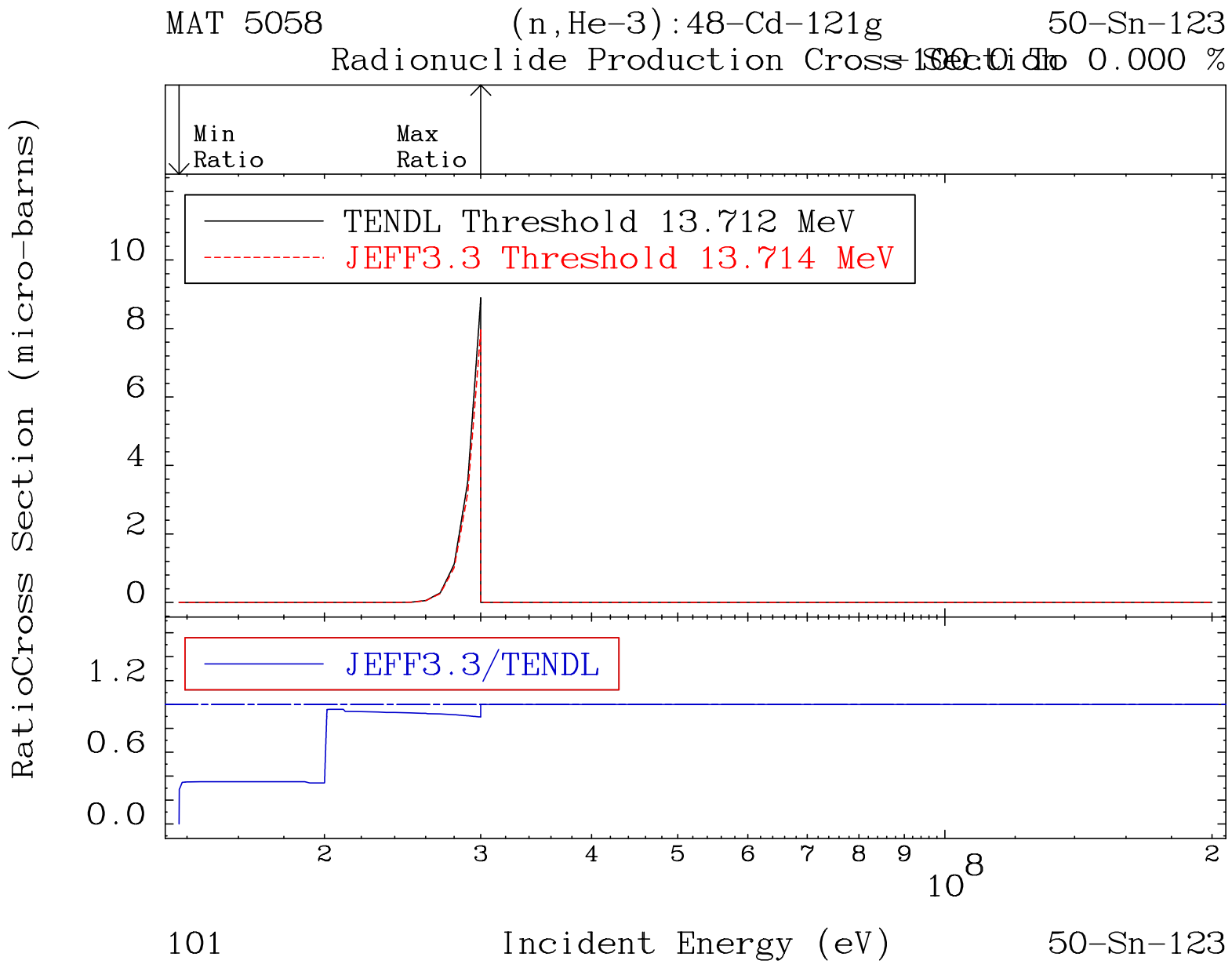

MAT 5058
(n,d):49-In-122g
50-Sn-123
Radionuclide Production Cross Section To 35.74 %
Max
Ratio
TENDL Threshold 9.3841 MeV
JEFF3.3 Threshold 9.3841 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
96
Incident Energy (eV)
50-Sn-123

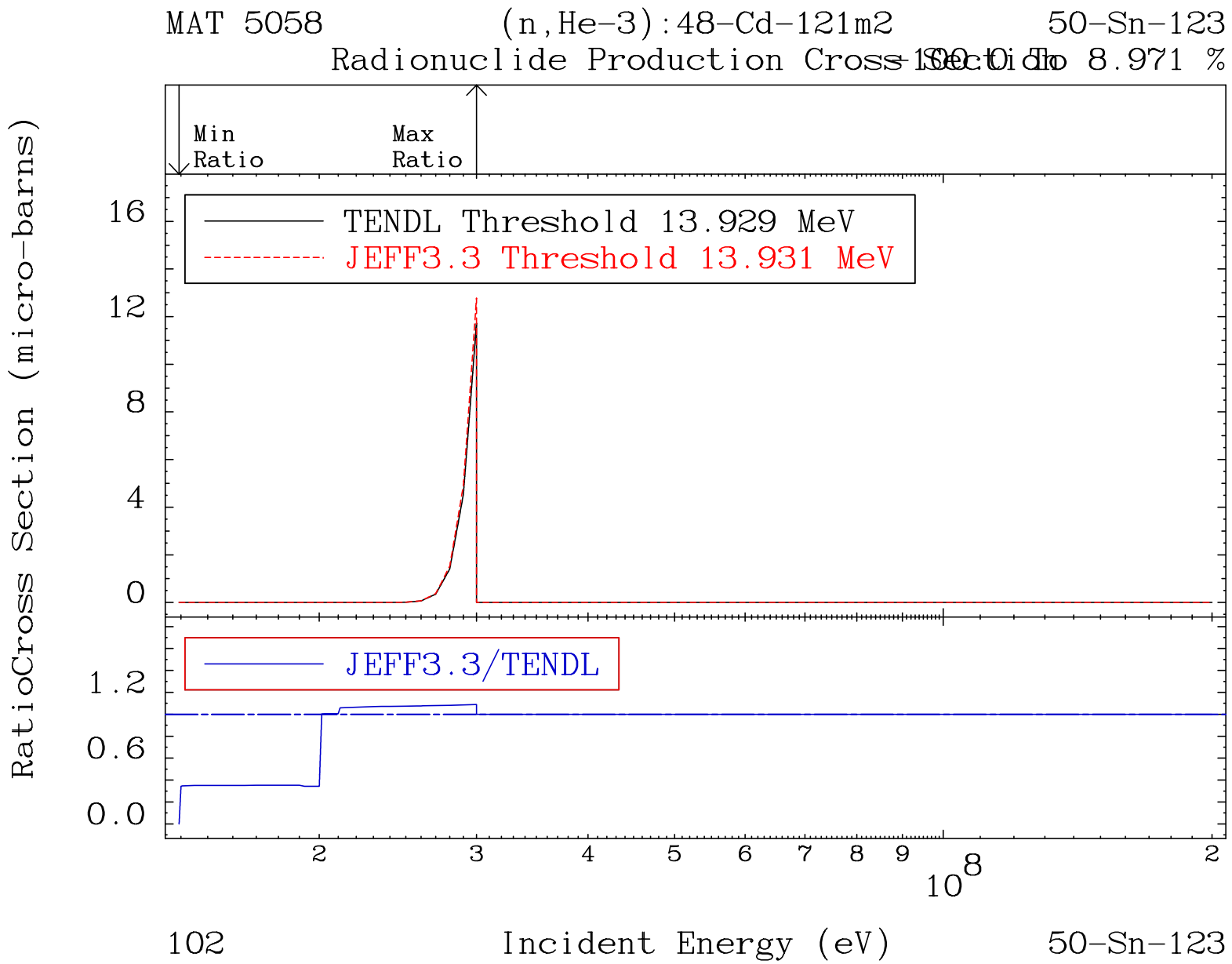

MAT 5058
(n,d):49-In-122m1
50-Sn-123
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 9.4244 MeV
JEFF3.3 Threshold 9.4244 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
97
50-Sn-123


MAT 5058
(n,d):49-In-122m5
50-Sn-123
Radionuclide Production Cross Section To 30.61 %
Max
Ratio
TENDL Threshold 9.6765 MeV
JEFF3.3 Threshold 9.6765 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
98
50-Sn-123


MAT 5058
(n,t):49-In-121g
50-Sn-123
Radionuclide Production Cross Section To 9.842 %
Min Ratio
Max Ratio
TENDL Threshold 8.9313 MeV
JEFF3.3 Threshold 8.9313 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
99
50-Sn-123


MAT 5058
(n,t):49-In-121m1
50-Sn-123
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 10.500 MeV
JEFF3.3 Threshold 10.500 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
2
3
4
5
6
7
8
9
10^8
100
Incident Energy (eV)
50-Sn-123


MAT 5058
(n,He-3):48-Cd-121g
50-Sn-123
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 13.712 MeV
JEFF3.3 Threshold 13.714 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
10
8
6
4
2
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
101
Incident Energy (eV)
50-Sn-123


MAT 5058
(n,He-3):48-Cd-121m2
50-Sn-123
Radionuclide Production Cross Section To 8.971 %
Min Ratio
Max Ratio
TENDL Threshold 13.929 MeV
JEFF3.3 Threshold 13.931 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
16
12
8
4
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
102
Incident Energy (eV)
50-Sn-123