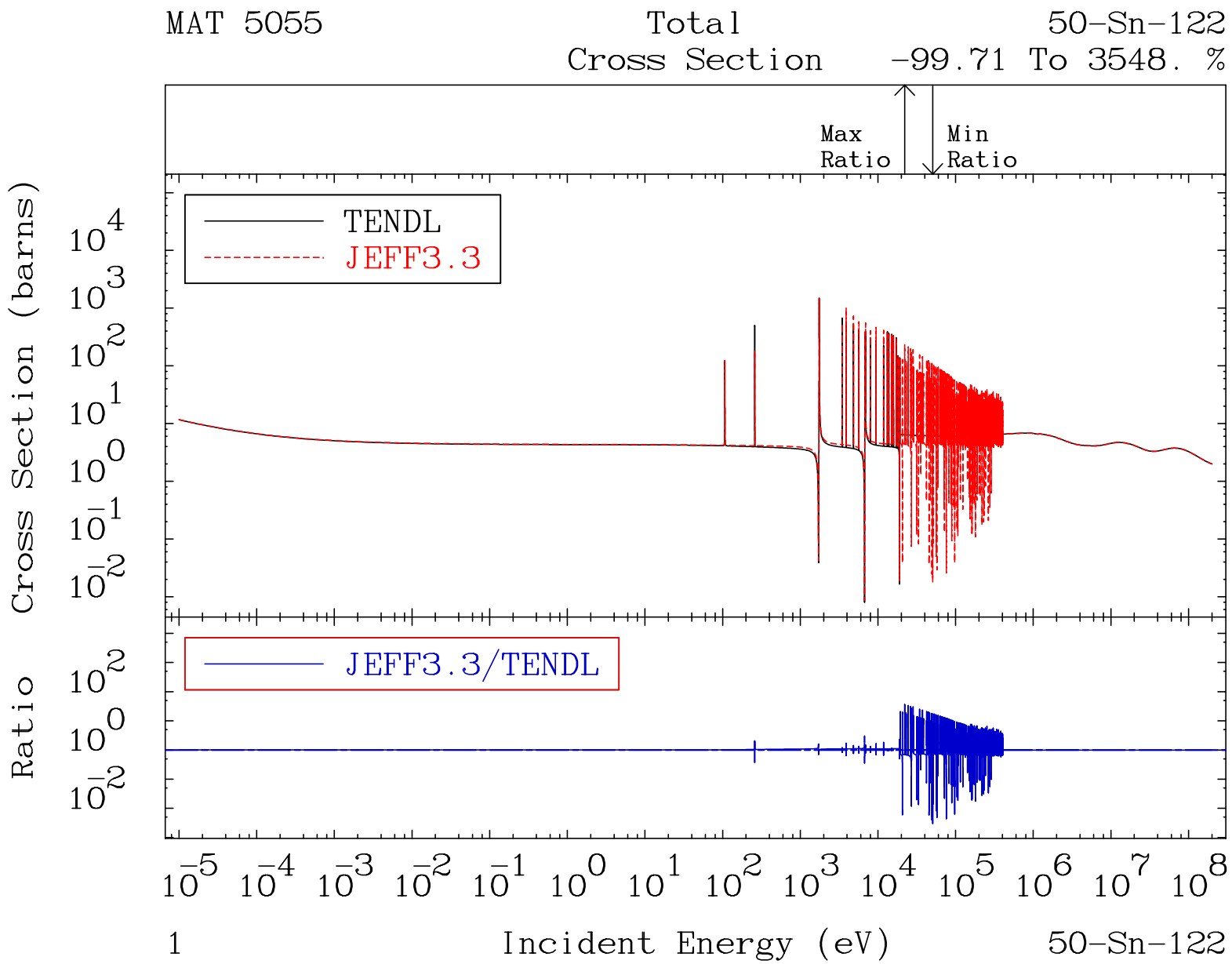
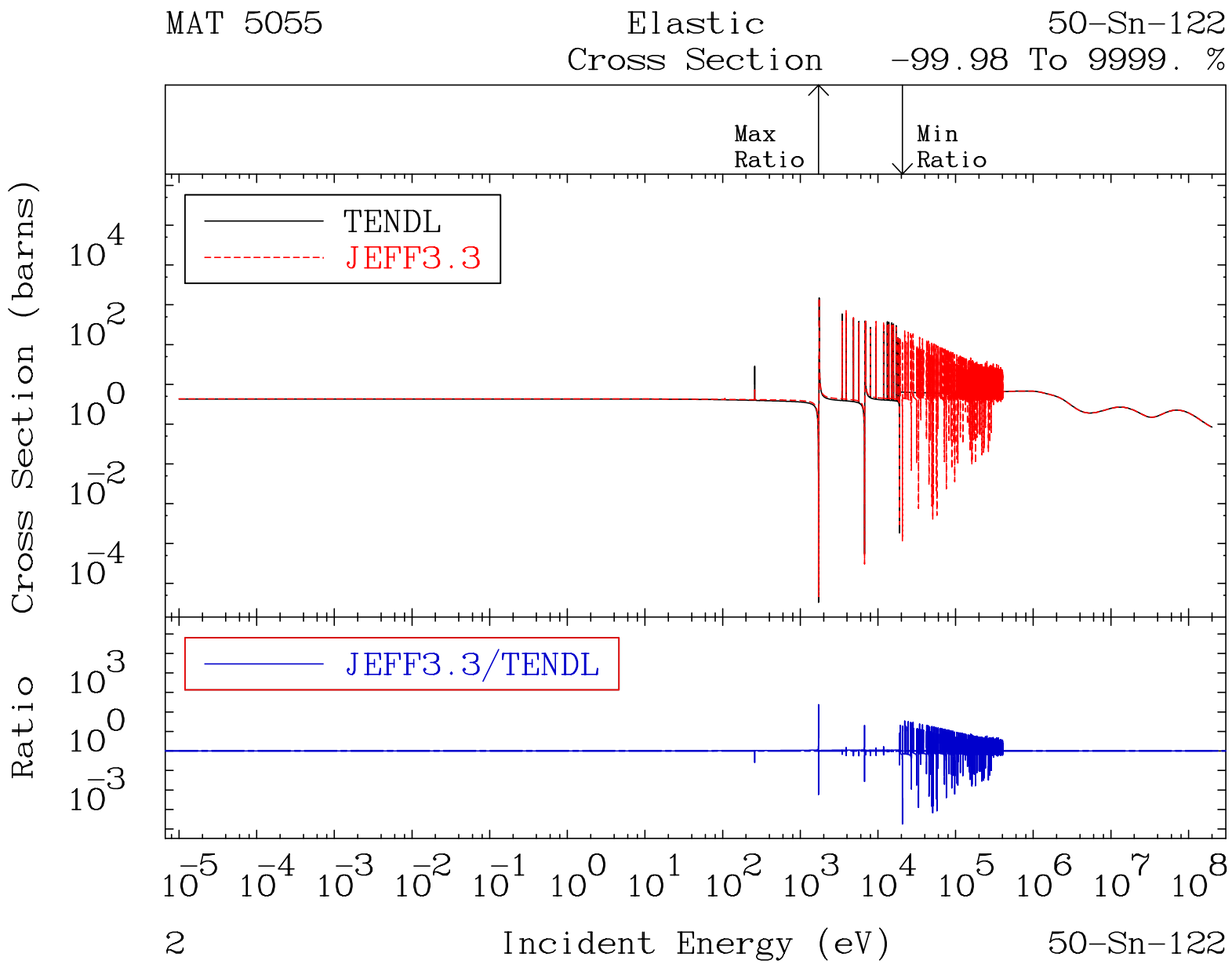
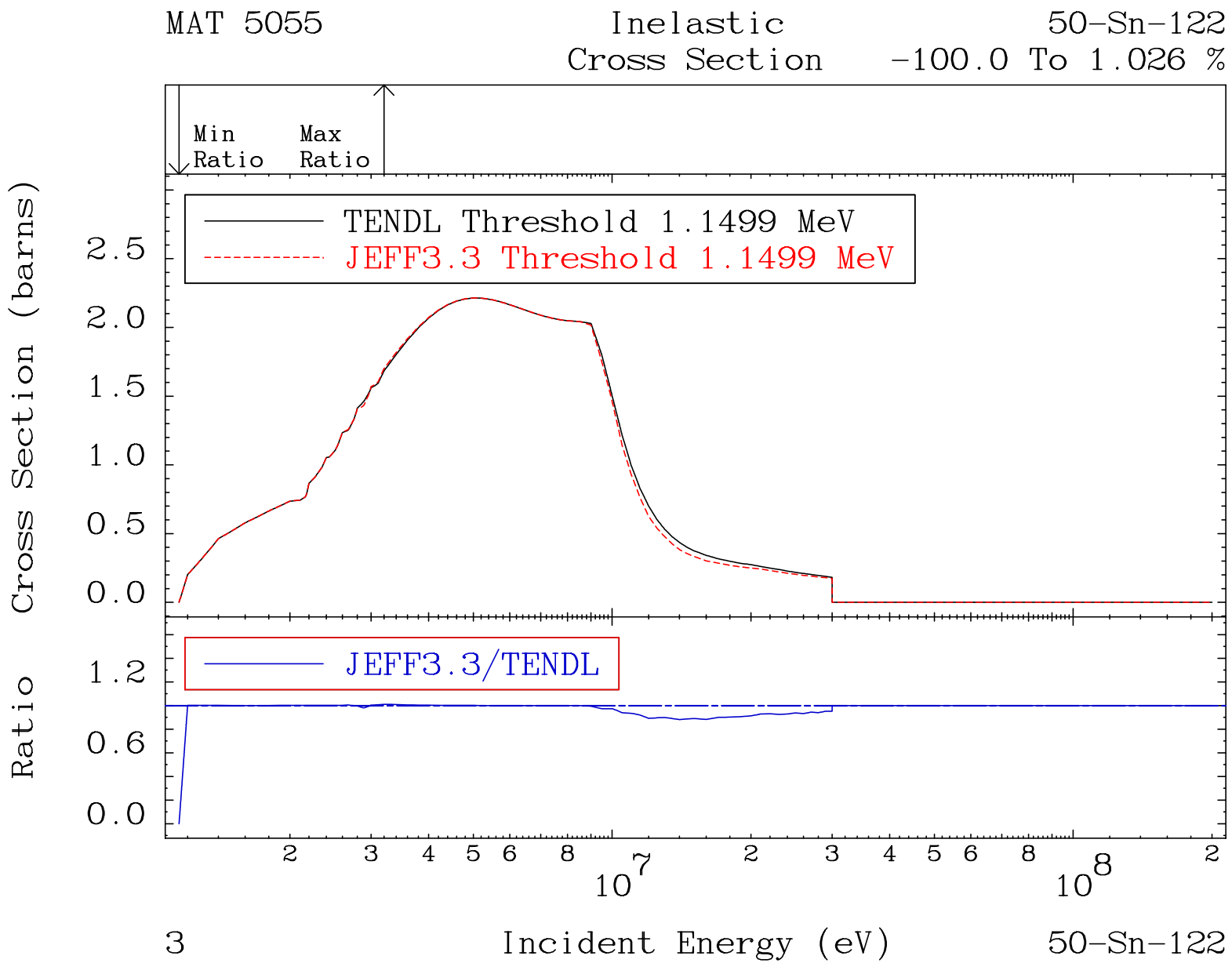
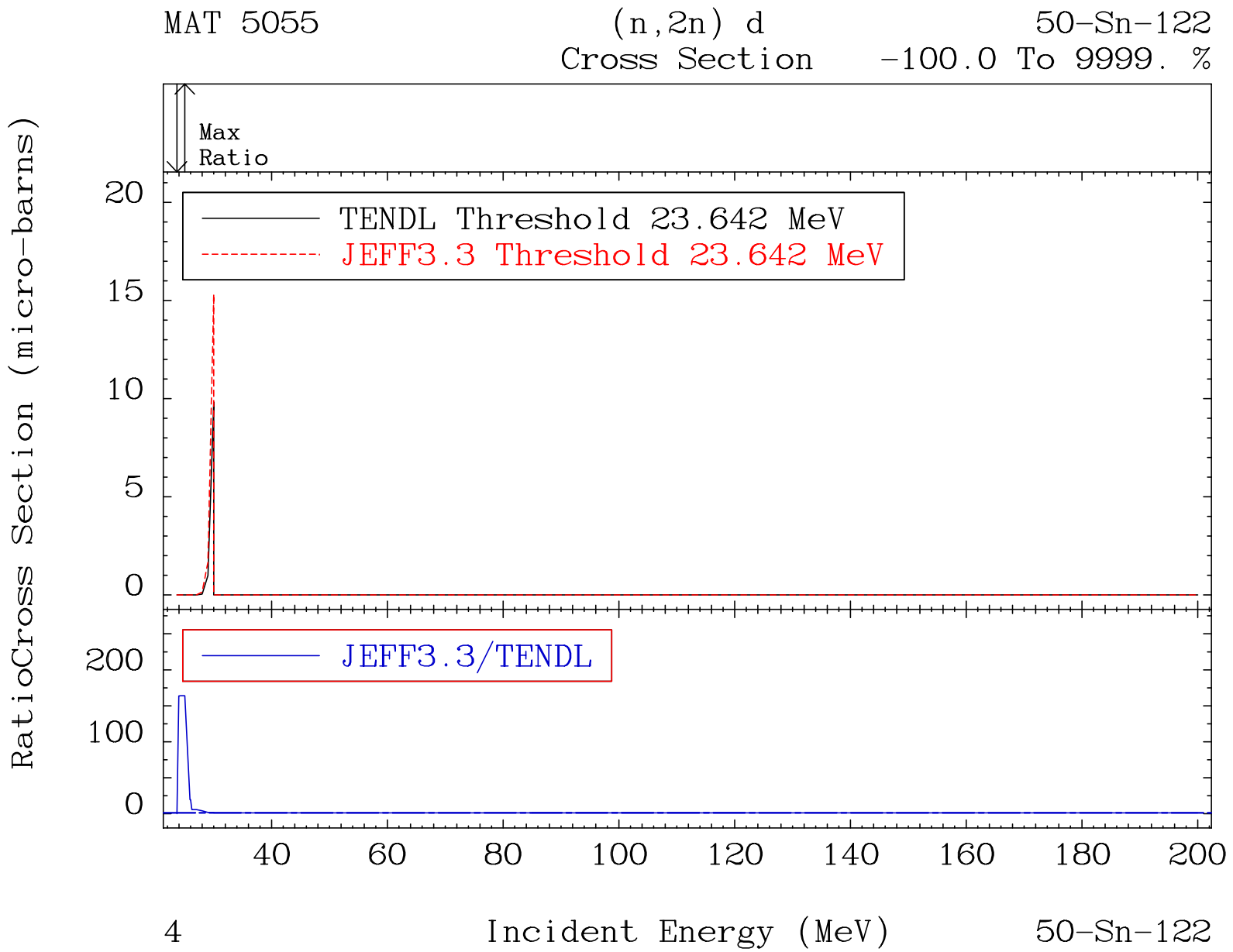
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

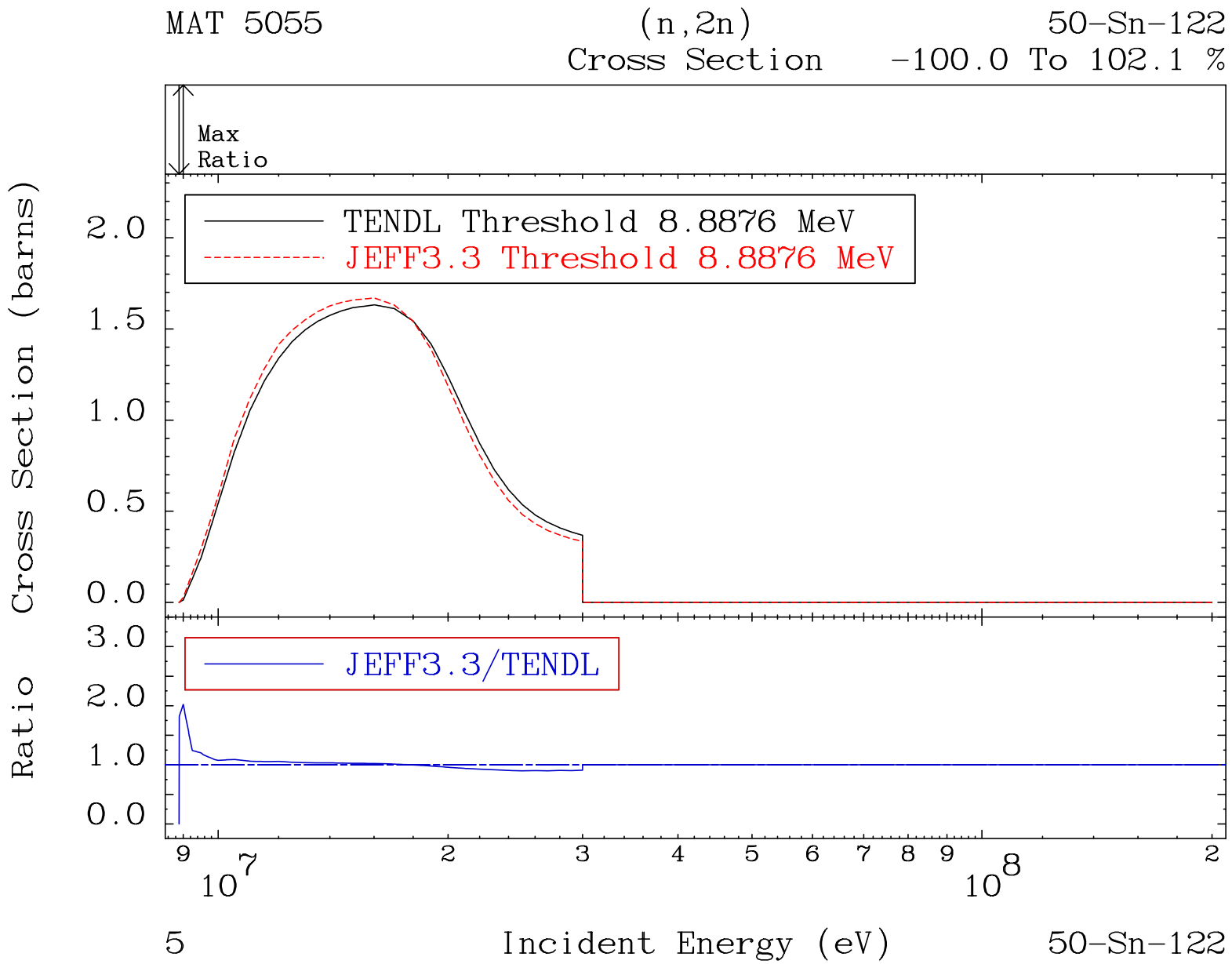
Press Mouse Button to Start

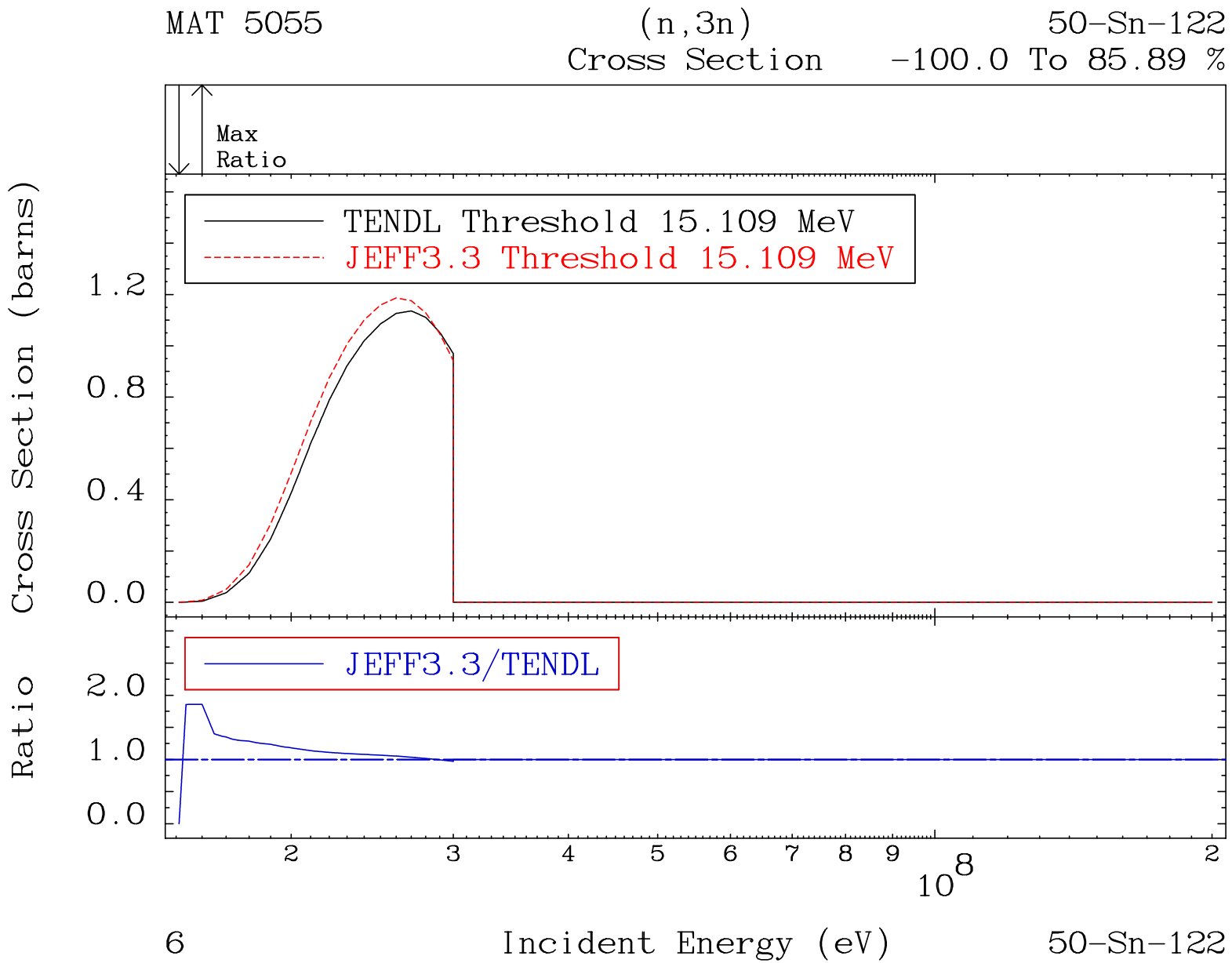

MAT 5055
Total
Cross Section
50-Sn-122
-99.71 To 3548. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
50-Sn-122

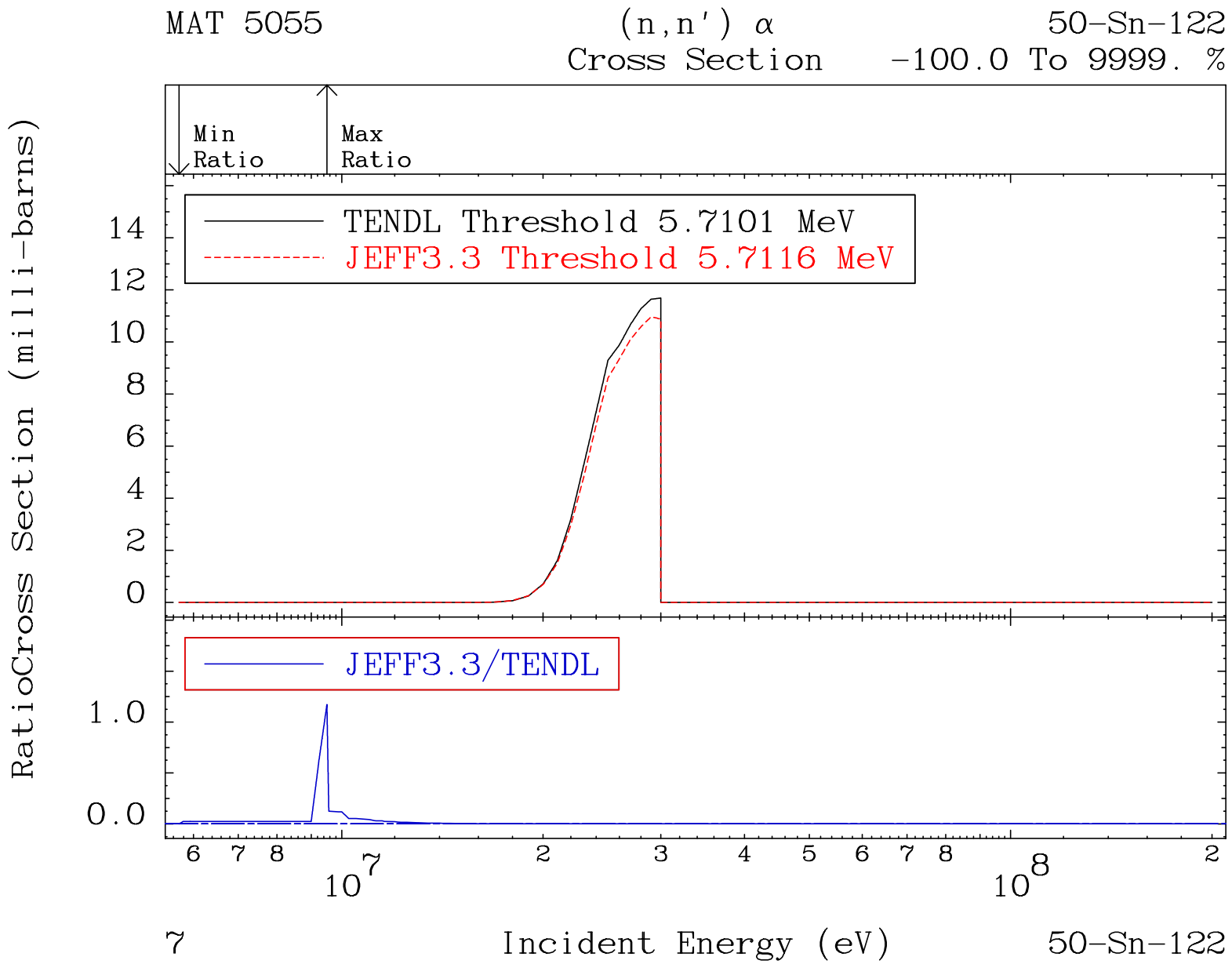

MAT 5055
Elastic
Cross Section
50-Sn-122
-99.98 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
50-Sn-122

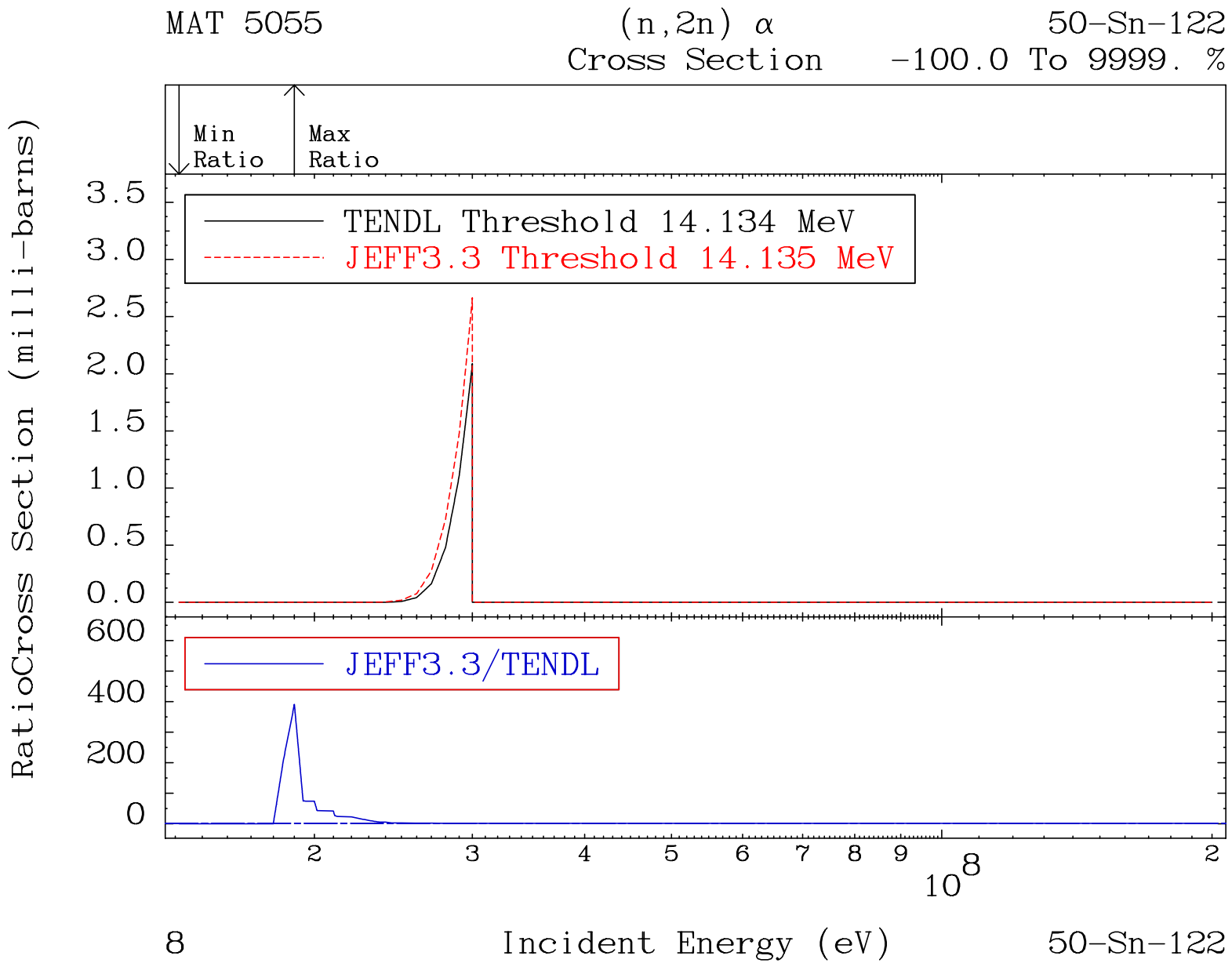

MAT 5055
Inelastic
Cross Section
50-Sn-122
-100.0 To 1.026 %
Min Ratio
Max Ratio
TENDL Threshold 1.1499 MeV
JEFF3.3 Threshold 1.1499 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
50-Sn-122

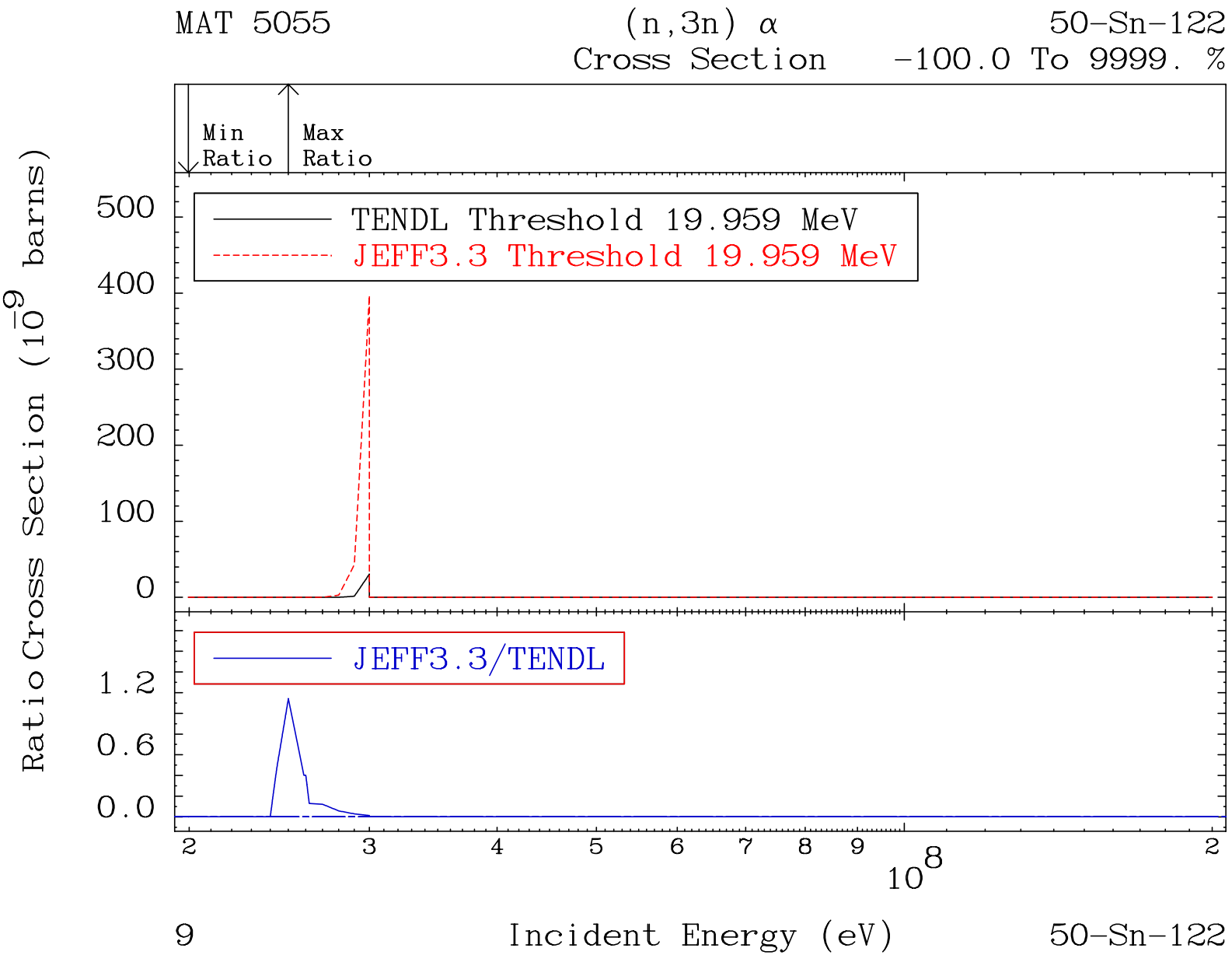

MAT 5055
(n,2n) d
50-Sn-122
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 23.642 MeV
JEFF3.3 Threshold 23.642 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
20
15
10
5
0
200
100
0
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
50-Sn-122

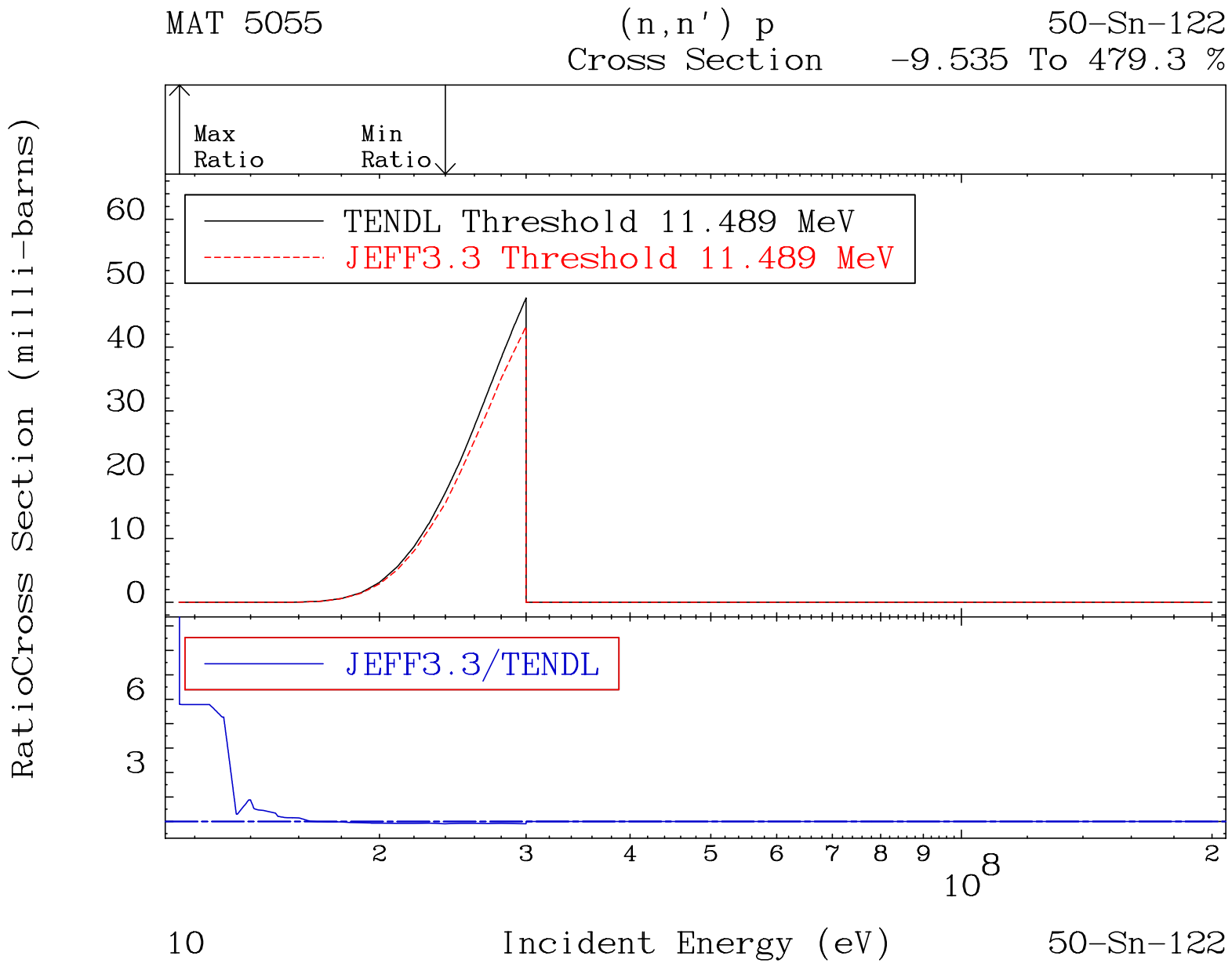

MAT 5055
(n,2n)
Cross Section
50-Sn-122
-100.0 To 102.1 %
Max
Ratio
TENDL Threshold 8.8876 MeV
JEFF3.3 Threshold 8.8876 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
3.0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
50-Sn-122

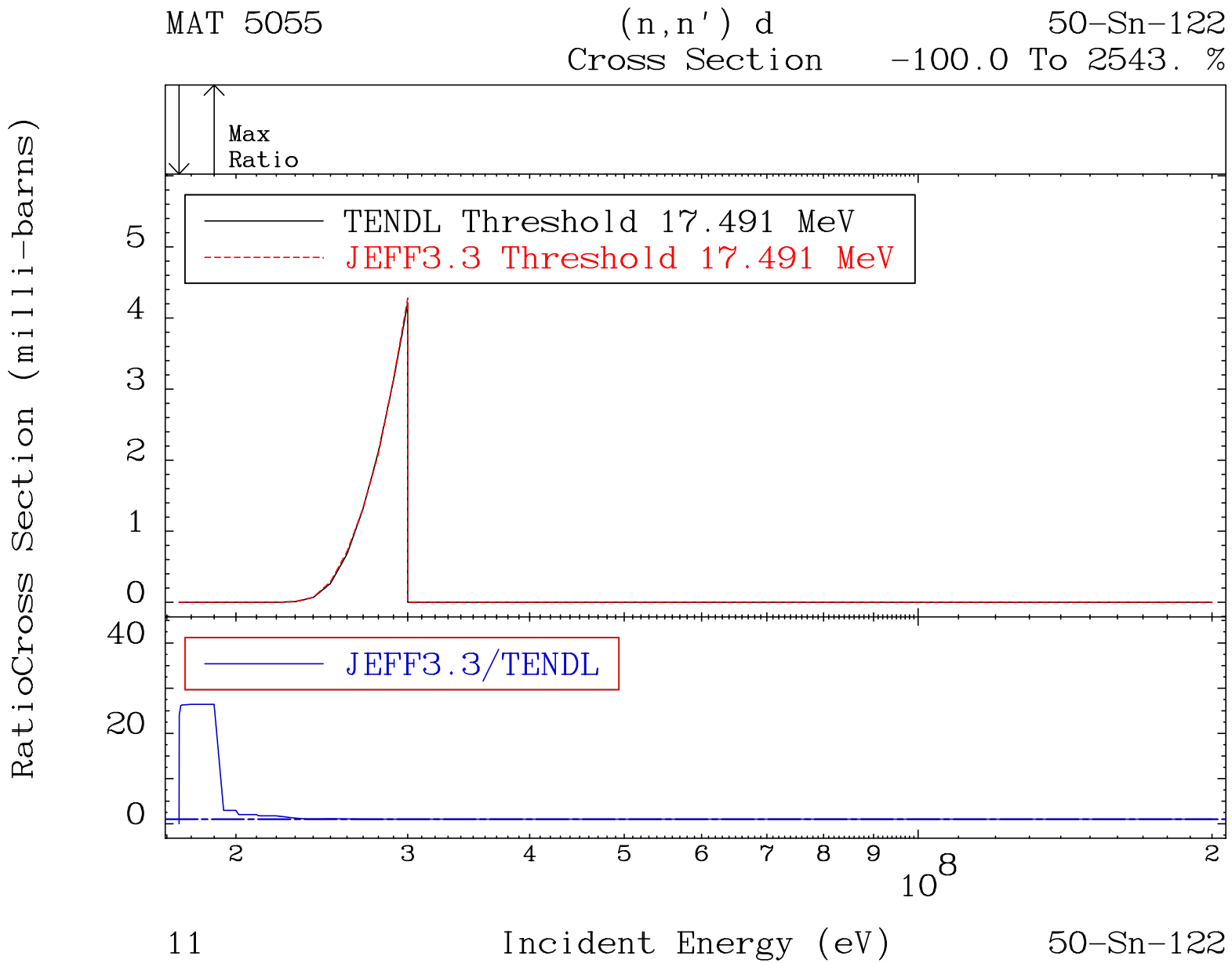

MAT 5055
(n,3n)
Cross Section
50-Sn-122
-100.0 To 85.89 %
Max
Ratio
TENDL Threshold 15.109 MeV
JEFF3.3 Threshold 15.109 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.2
0.8
0.4
0.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
50-Sn-122

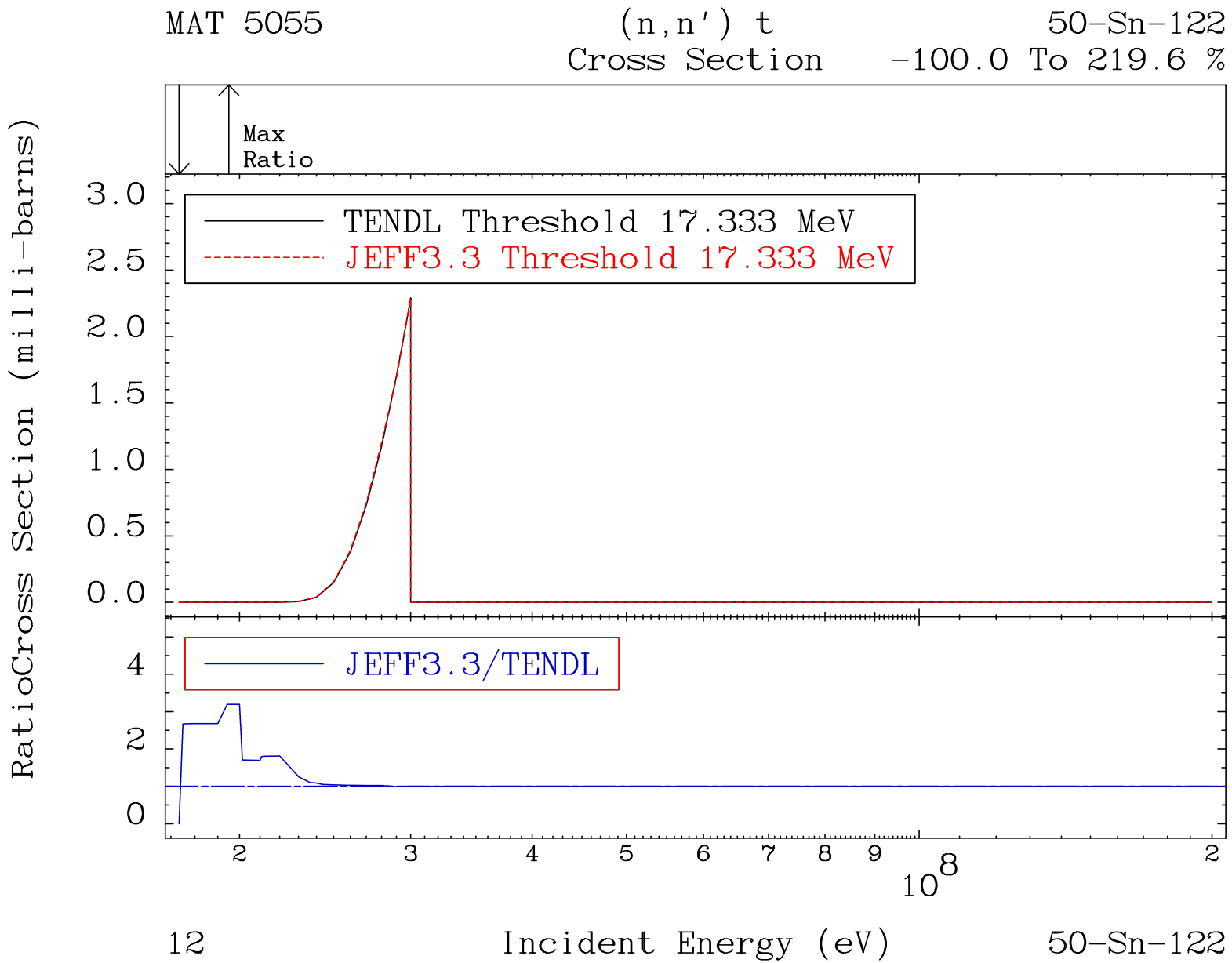

MAT 5055
(n,n') α
Cross Section
50-Sn-122
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.7101 MeV
JEFF3.3 Threshold 5.7116 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
1.0
0.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
50-Sn-122

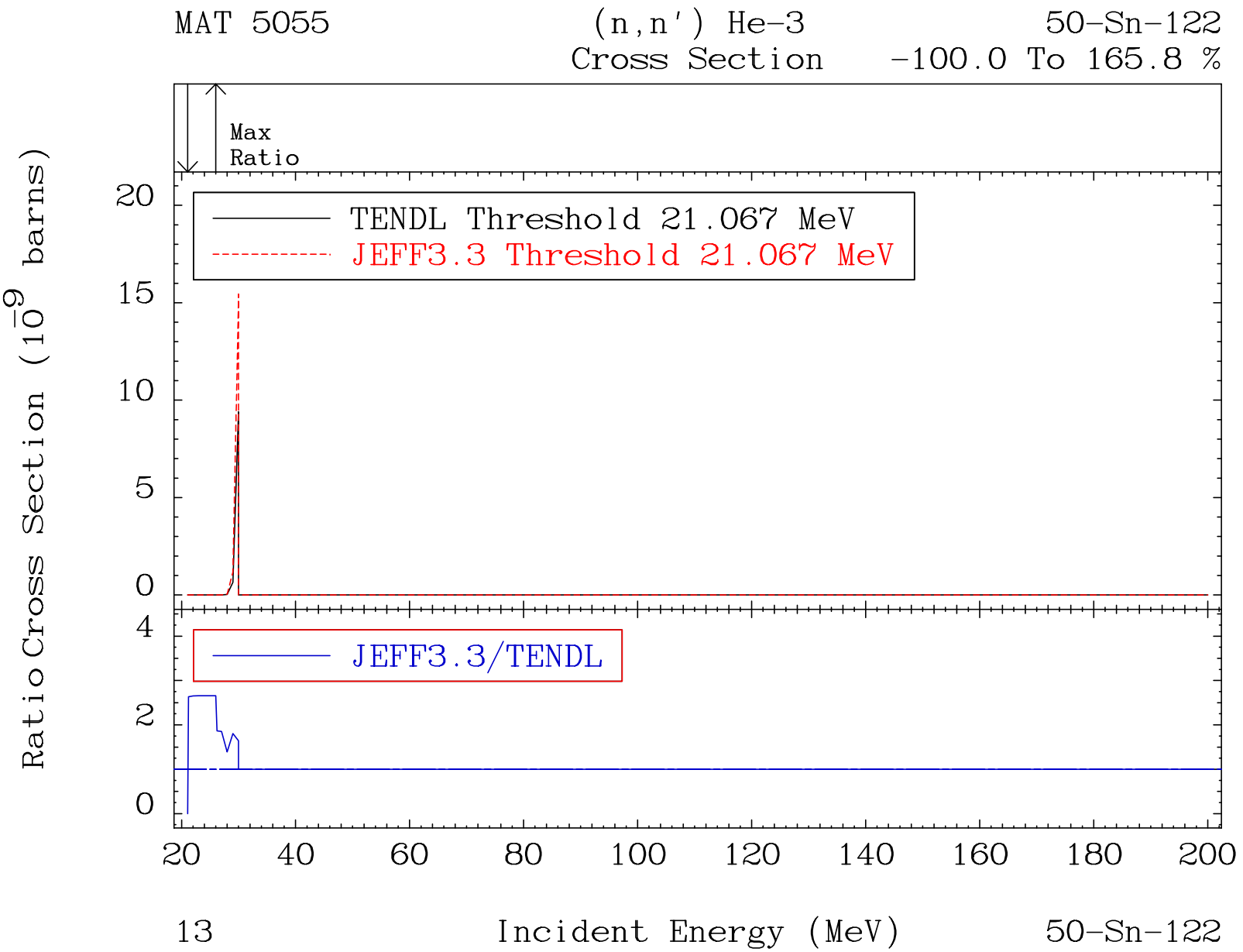

MAT 5055
(n,2n) α
50-Sn-122
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 14.134 MeV
JEFF3.3 Threshold 14.135 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
600
400
200
0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
50-Sn-122

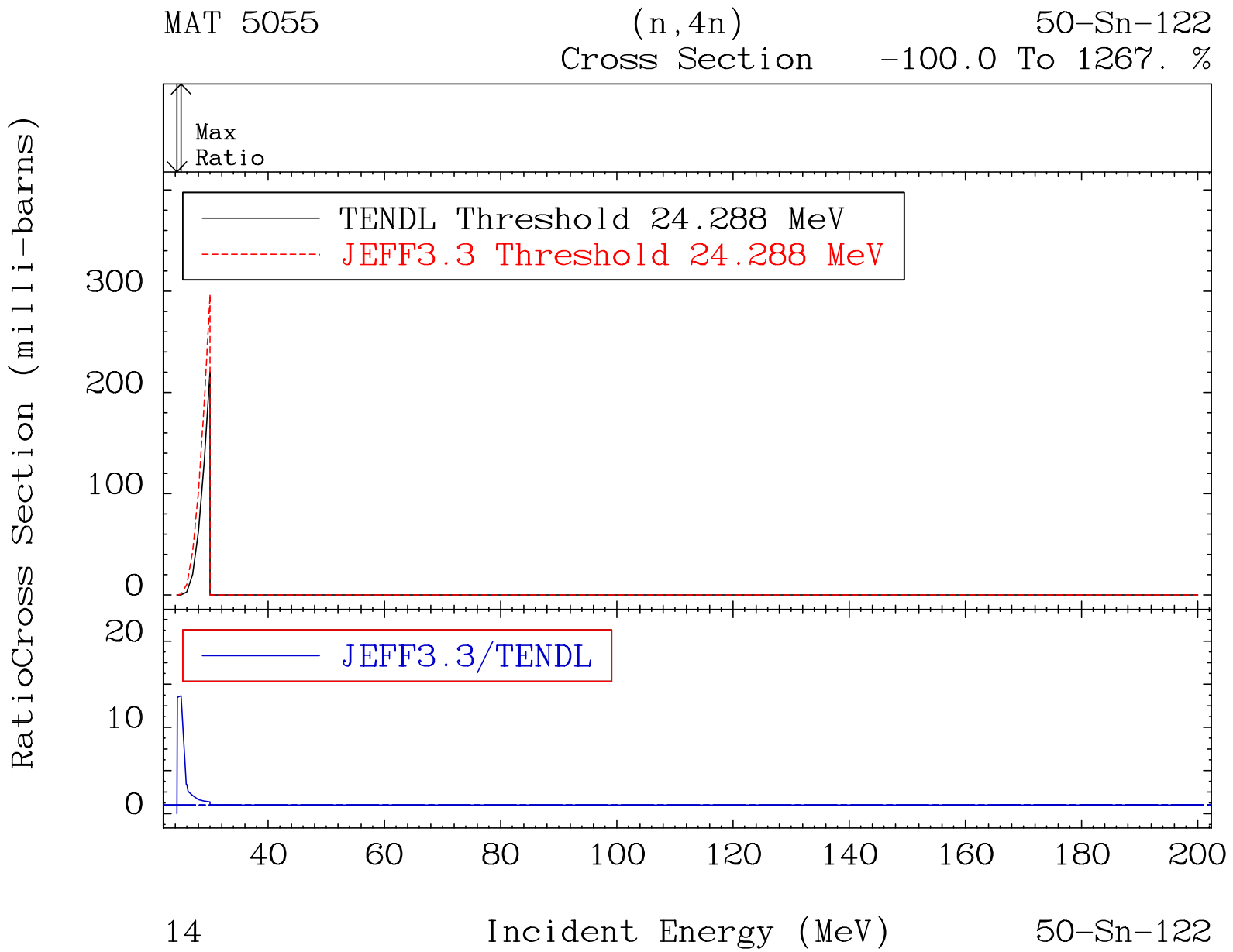

MAT 5055
(n,3n) α
Cross Section
50-Sn-122
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 19.959 MeV
JEFF3.3 Threshold 19.959 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
500
400
300
200
100
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
50-Sn-122

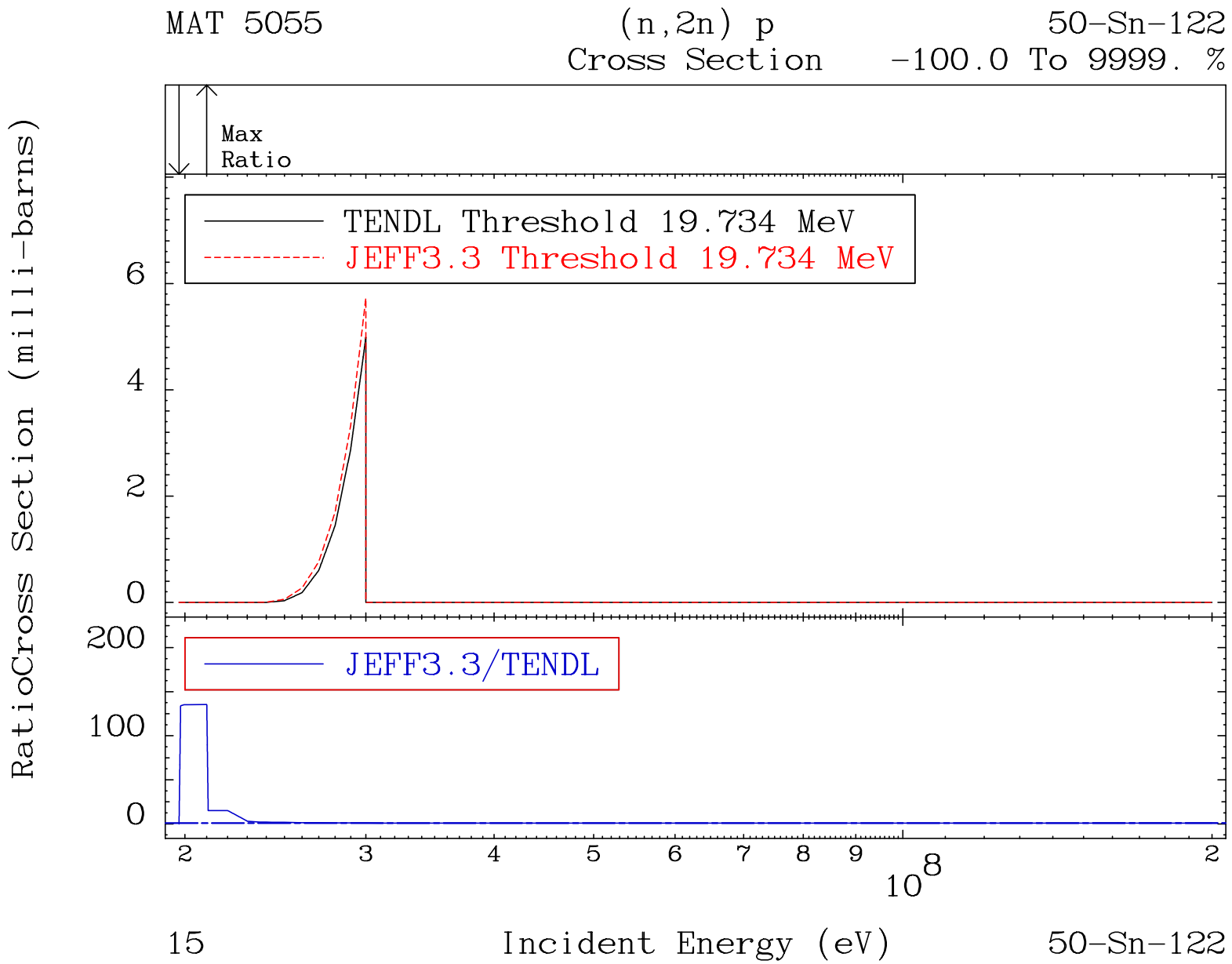

MAT 5055
(n,n') p
Cross Section
50-Sn-122
-9.535 To 479.3 %
Max Ratio
Min Ratio
TENDL Threshold 11.489 MeV
JEFF3.3 Threshold 11.489 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
6
3
2
3
4
5
6
7
8
9
2
10^8
10
Incident Energy (eV)
50-Sn-122

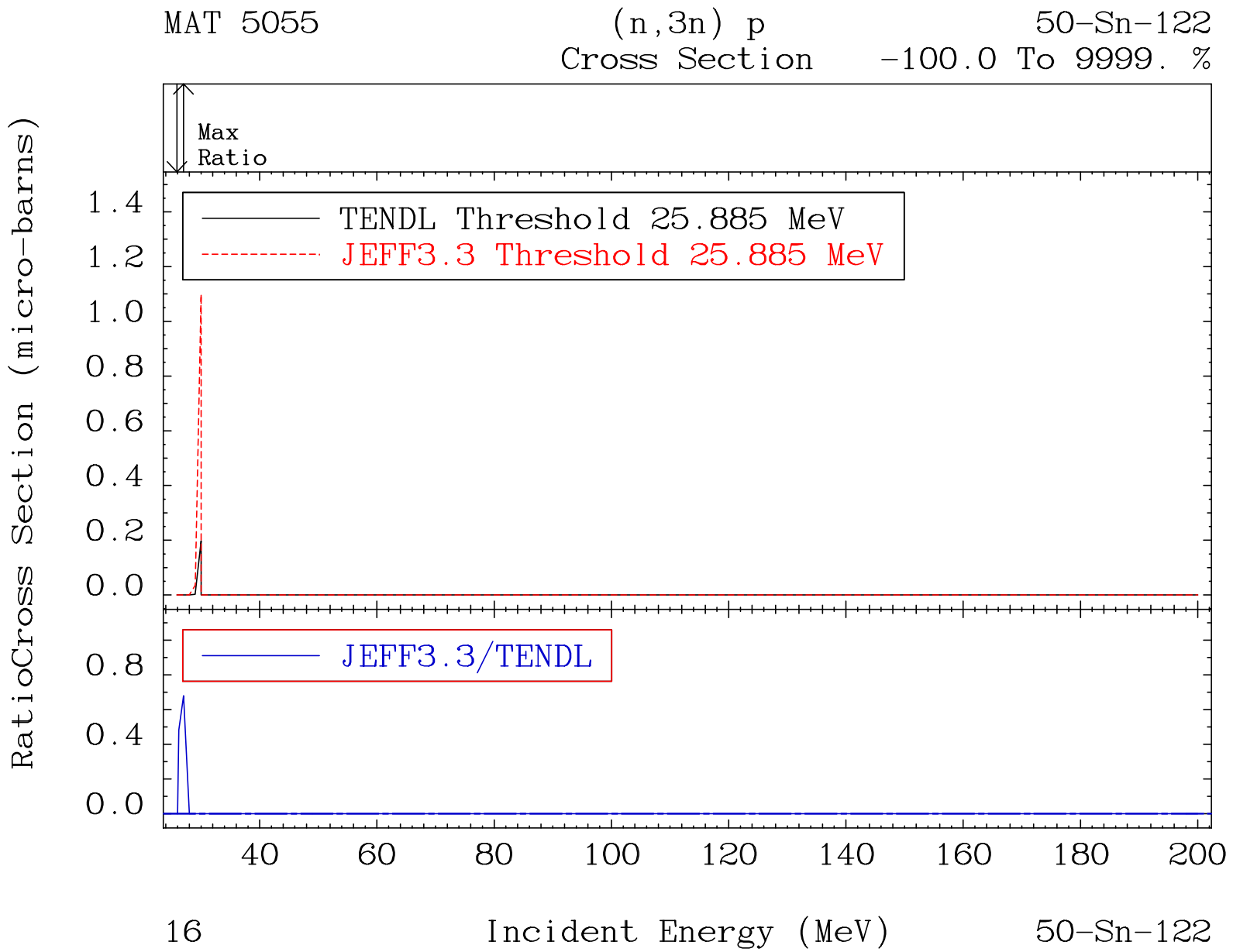

MAT 5055
(n,n') d
Cross Section
50-Sn-122
-100.0 To 2543. %
Max
Ratio
TENDL Threshold 17.491 MeV
JEFF3.3 Threshold 17.491 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
11
50-Sn-122

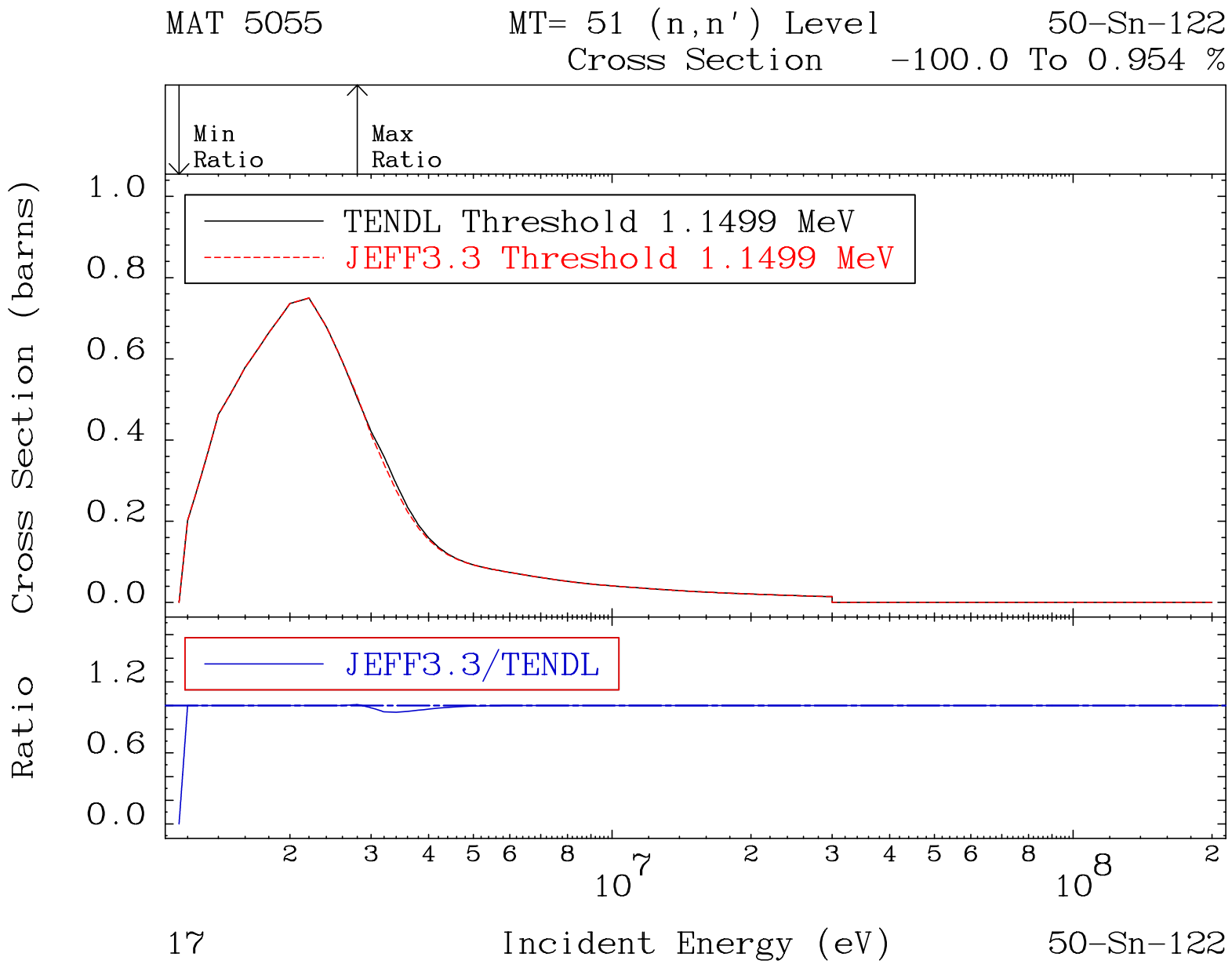

MAT 5055
(n,n') t
Cross Section
50-Sn-122
-100.0 To 219.6 %
Max
Ratio
TENDL Threshold 17.333 MeV
JEFF3.3 Threshold 17.333 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
50-Sn-122

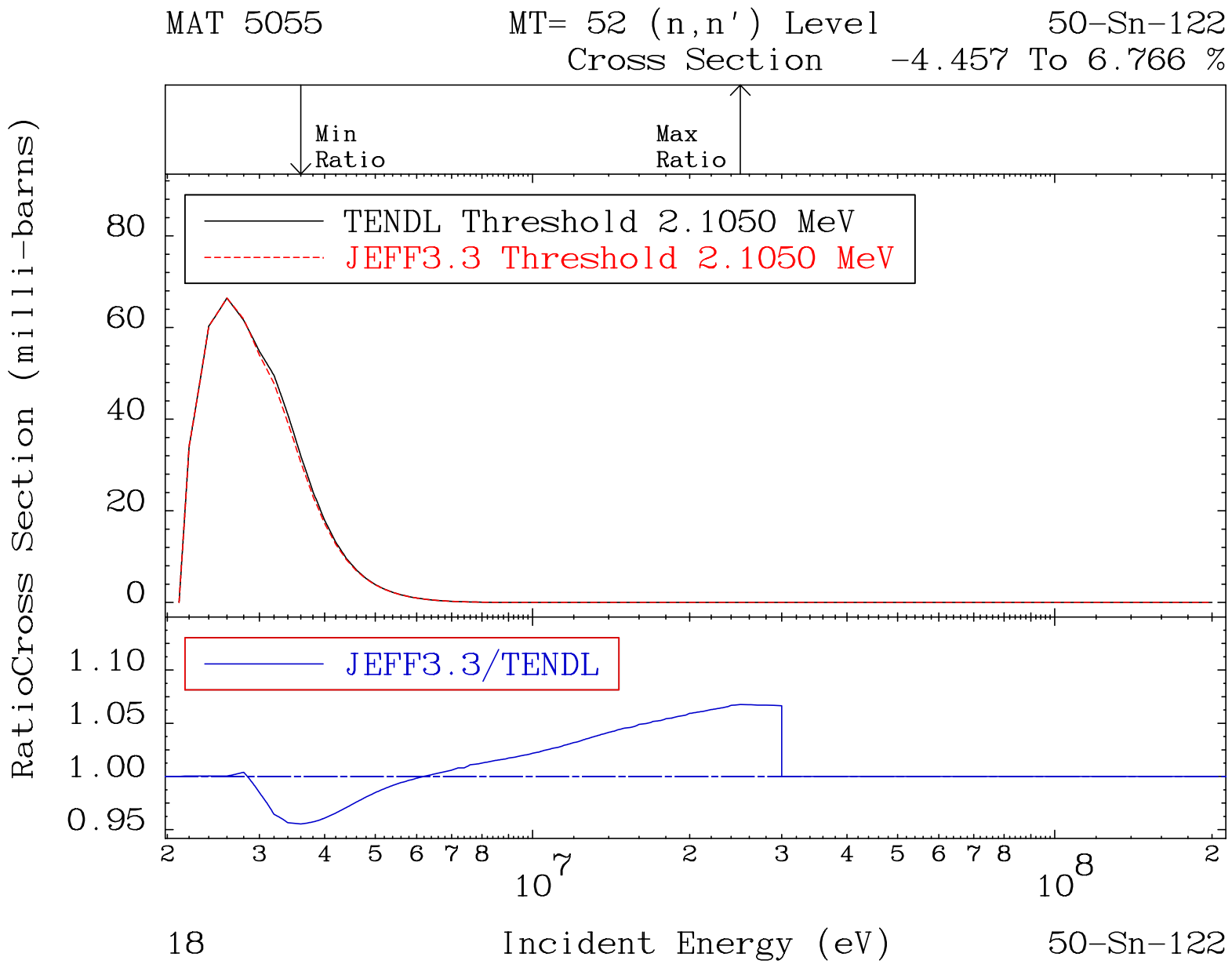

MAT 5055
(n,n') He-3
Cross Section
50-Sn-122
-100.0 To 165.8 %
Max
Ratio
TENDL Threshold 21.067 MeV
JEFF3.3 Threshold 21.067 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
20
15
10
5
0
4
2
0
20
40
60
80
100
120
140
160
180
200
13
Incident Energy (MeV)
50-Sn-122

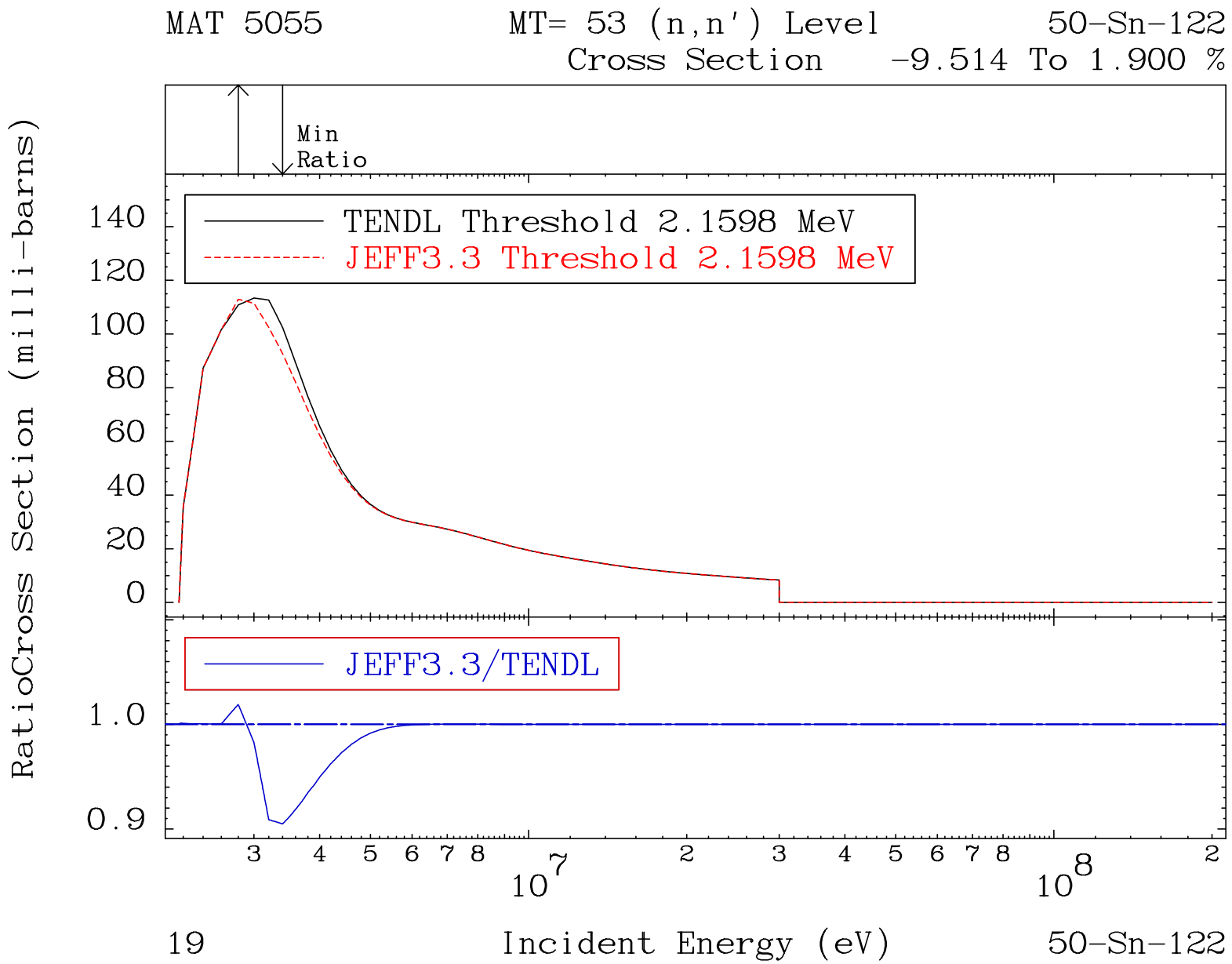

MAT 5055
(n,4n)
50-Sn-122
Cross Section
-100.0 To 1267. %
Max
Ratio
TENDL Threshold 24.288 MeV
JEFF3.3 Threshold 24.288 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
300
200
100
0
20
10
0
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
50-Sn-122

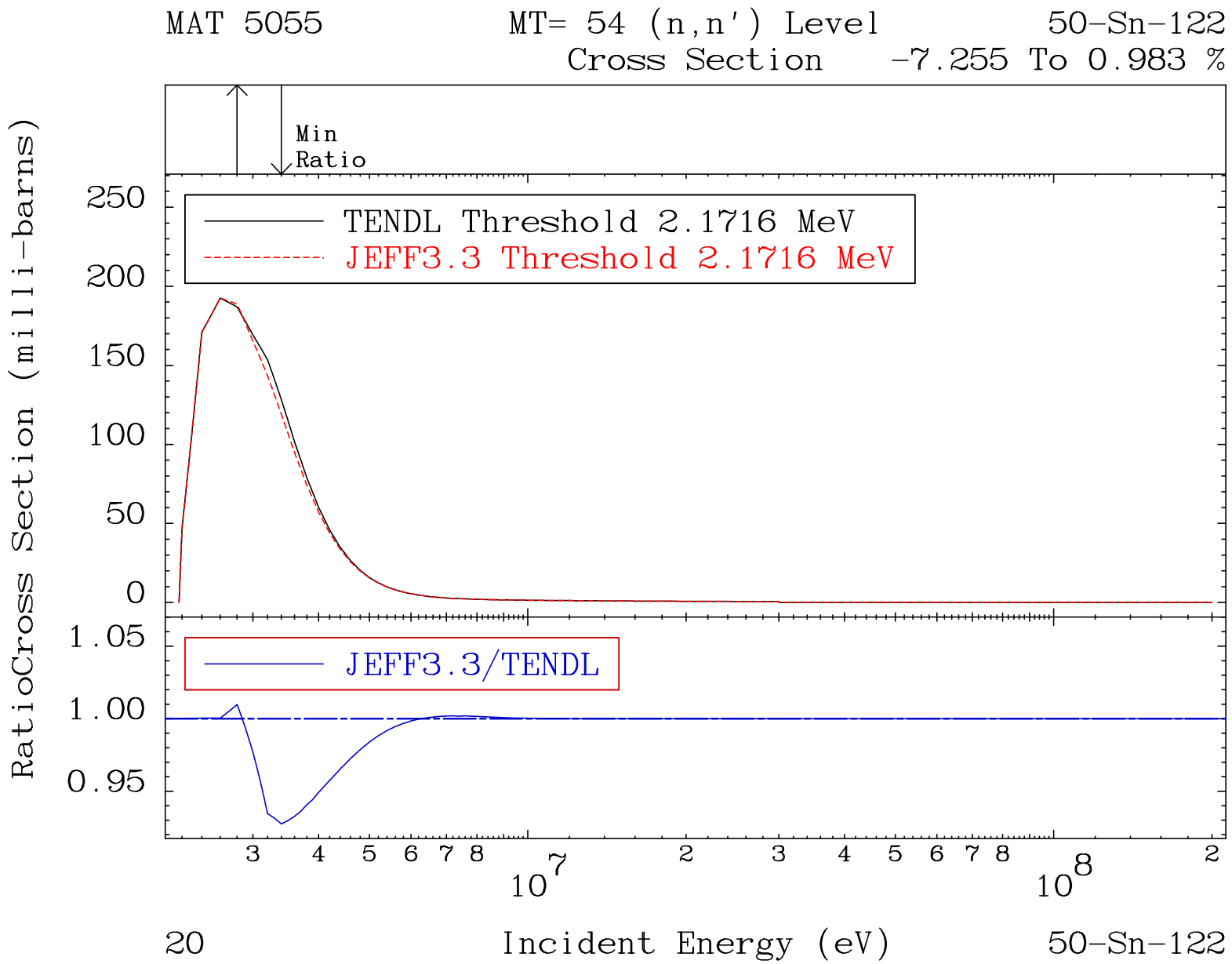

MAT 5055
(n,2n) p
Cross Section
50-Sn-122
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 19.734 MeV
JEFF3.3 Threshold 19.734 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
6
4
2
0
200
100
0
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
50-Sn-122

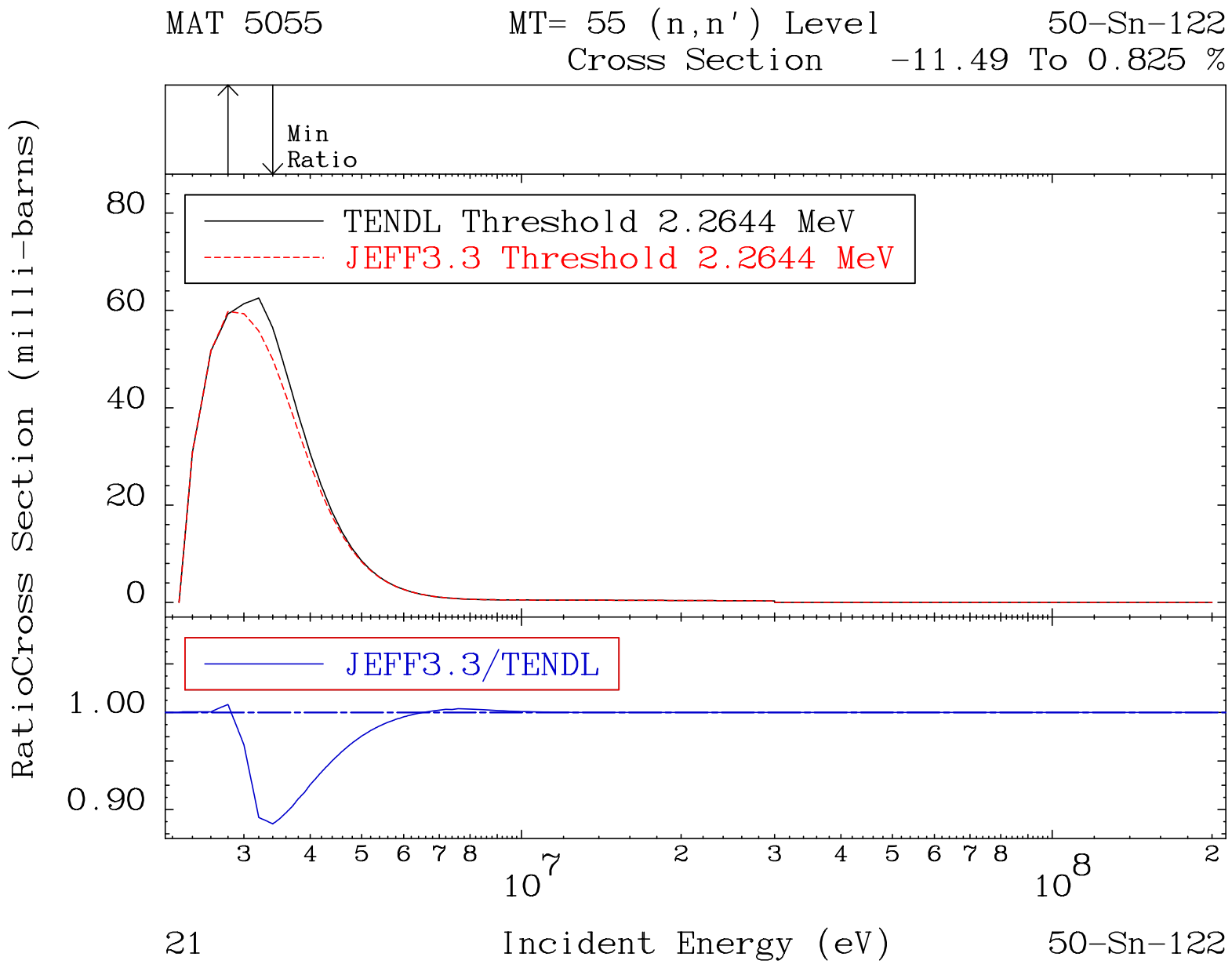

MAT 5055
(n,3n) p
50-Sn-122
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 25.885 MeV
JEFF3.3 Threshold 25.885 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.8
0.4
0.0
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
50-Sn-122

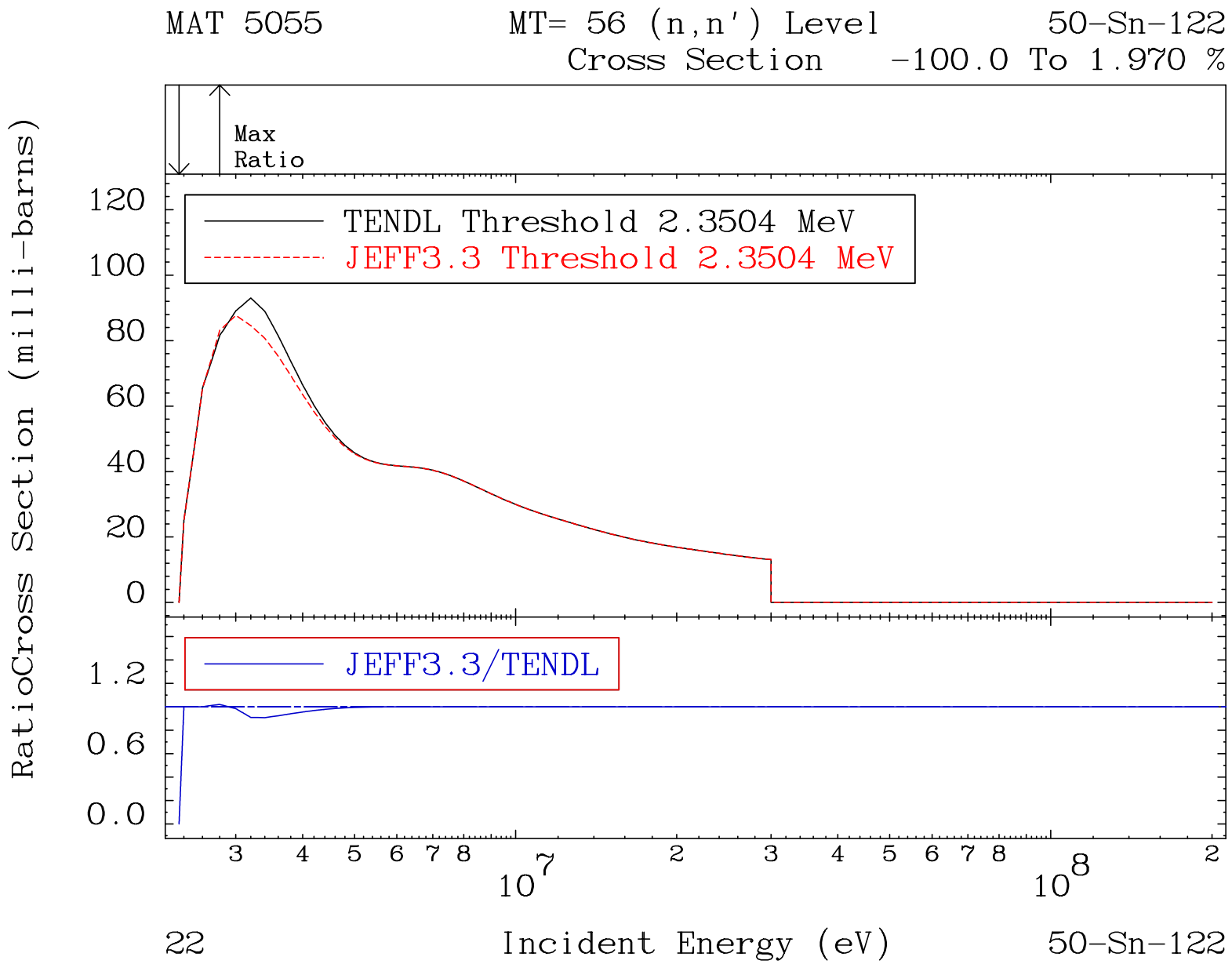

MAT 5055
MT= 51 (n,n') Level
50-Sn-122
Cross Section
-100.0 To 0.954 %
Min Ratio
Max Ratio
TENDL Threshold 1.1499 MeV
JEFF3.3 Threshold 1.1499 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
50-Sn-122

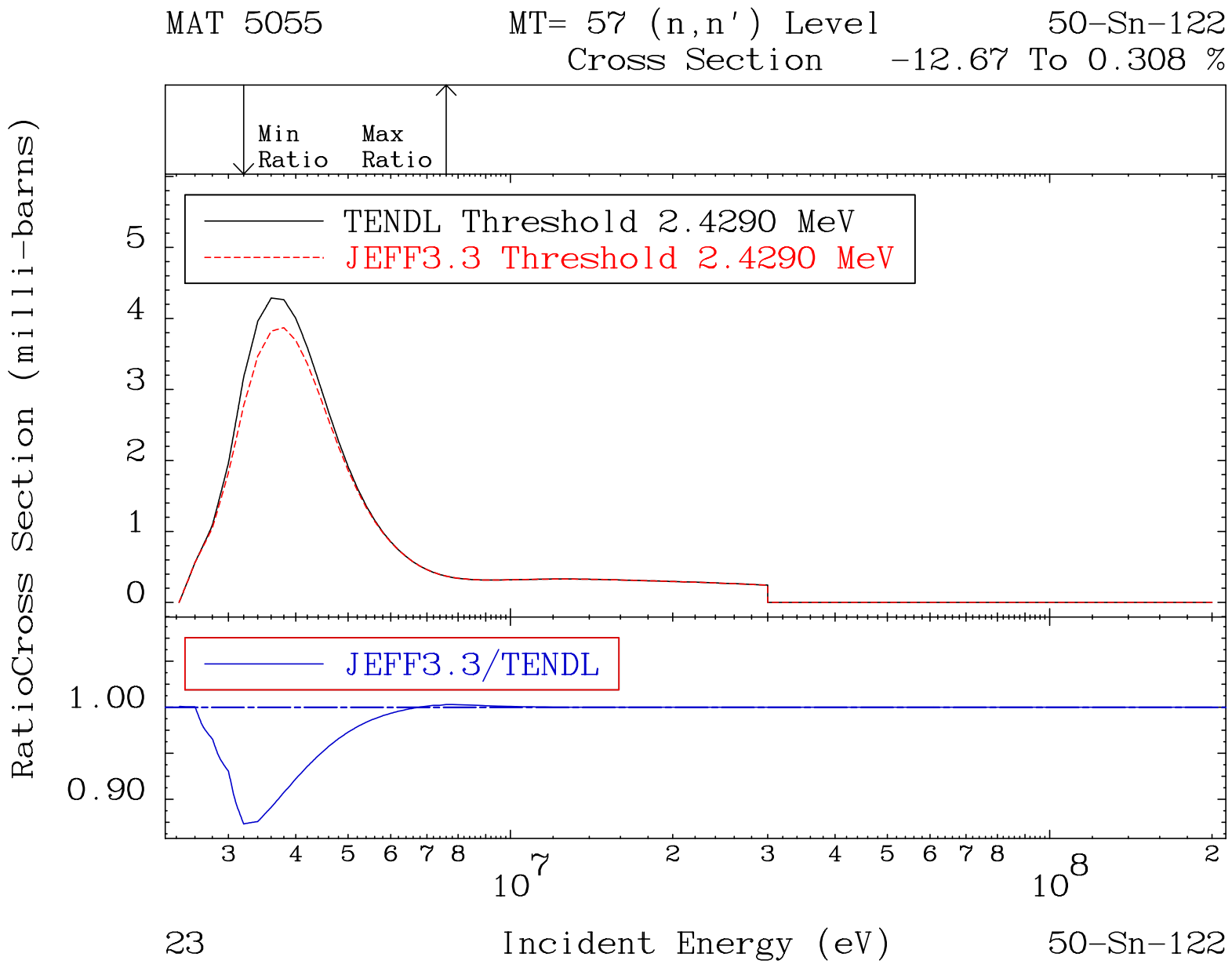

MAT 5055
MT= 52 (n,n') Level
50-Sn-122
Cross Section
-4.457 To 6.766 %
Min Ratio
Max Ratio
TENDL Threshold 2.1050 MeV
JEFF3.3 Threshold 2.1050 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.10
1.05
1.00
0.95
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
50-Sn-122

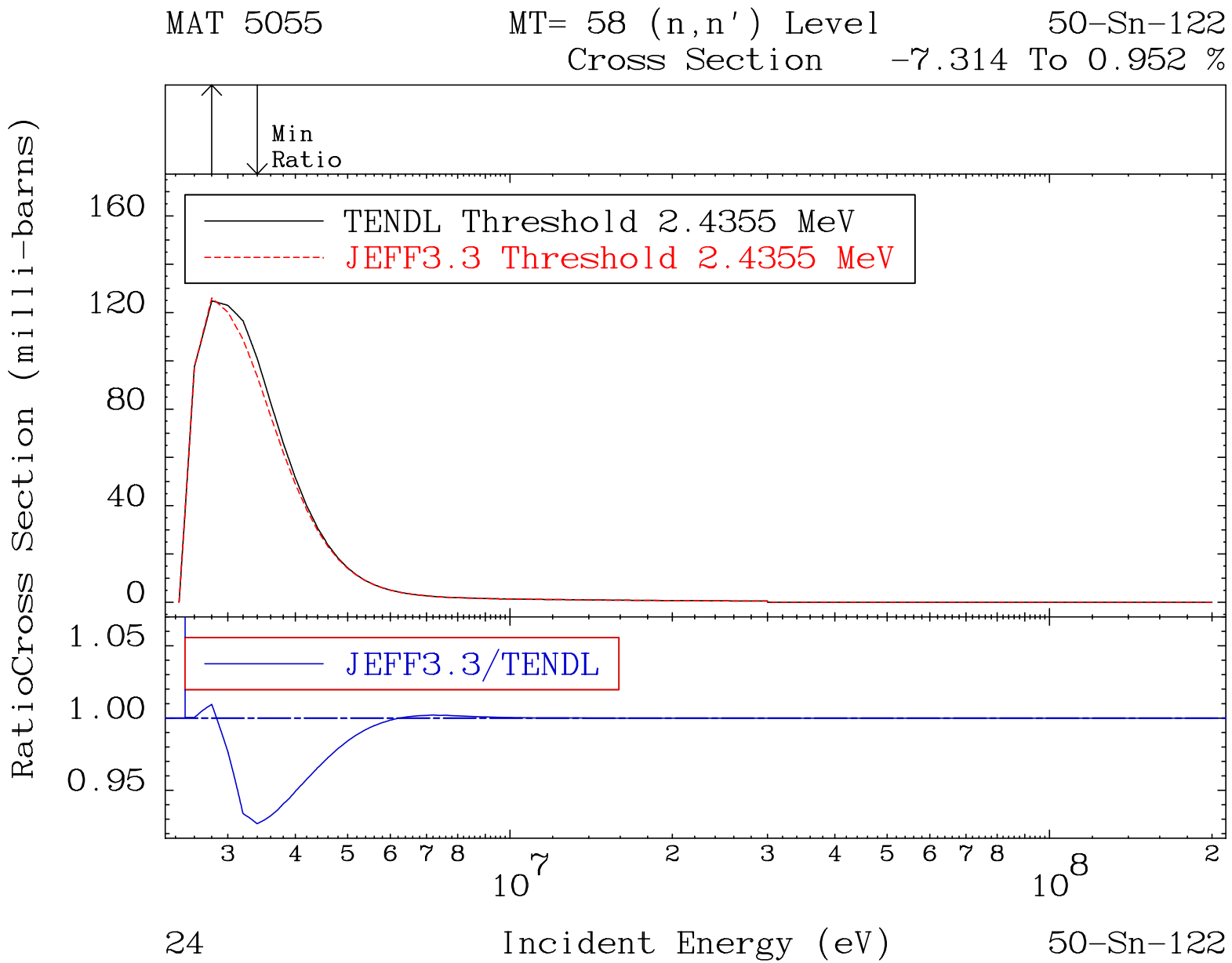

MAT 5055
MT= 53 (n,n') Level
50-Sn-122
Cross Section
-9.514 To 1.900 %
Min
Ratio
TENDL Threshold 2.1598 MeV
JEFF3.3 Threshold 2.1598 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.0
0.9
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
50-Sn-122

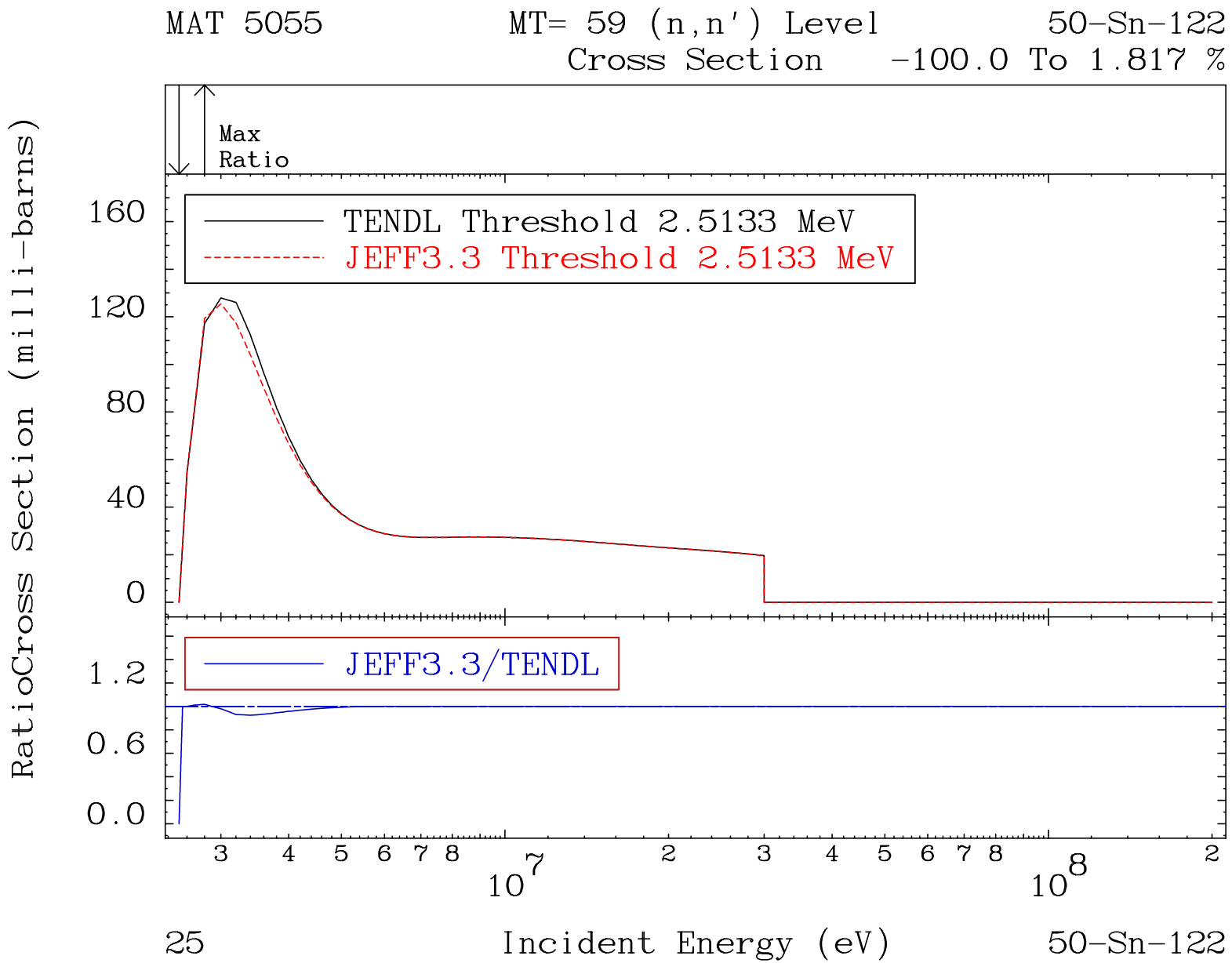

MAT 5055
MT= 54 (n,n') Level
50-Sn-122
Cross Section
-7.255 To 0.983 %
Min
Ratio
TENDL Threshold 2.1716 MeV
JEFF3.3 Threshold 2.1716 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.05
1.00
0.95
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
50-Sn-122

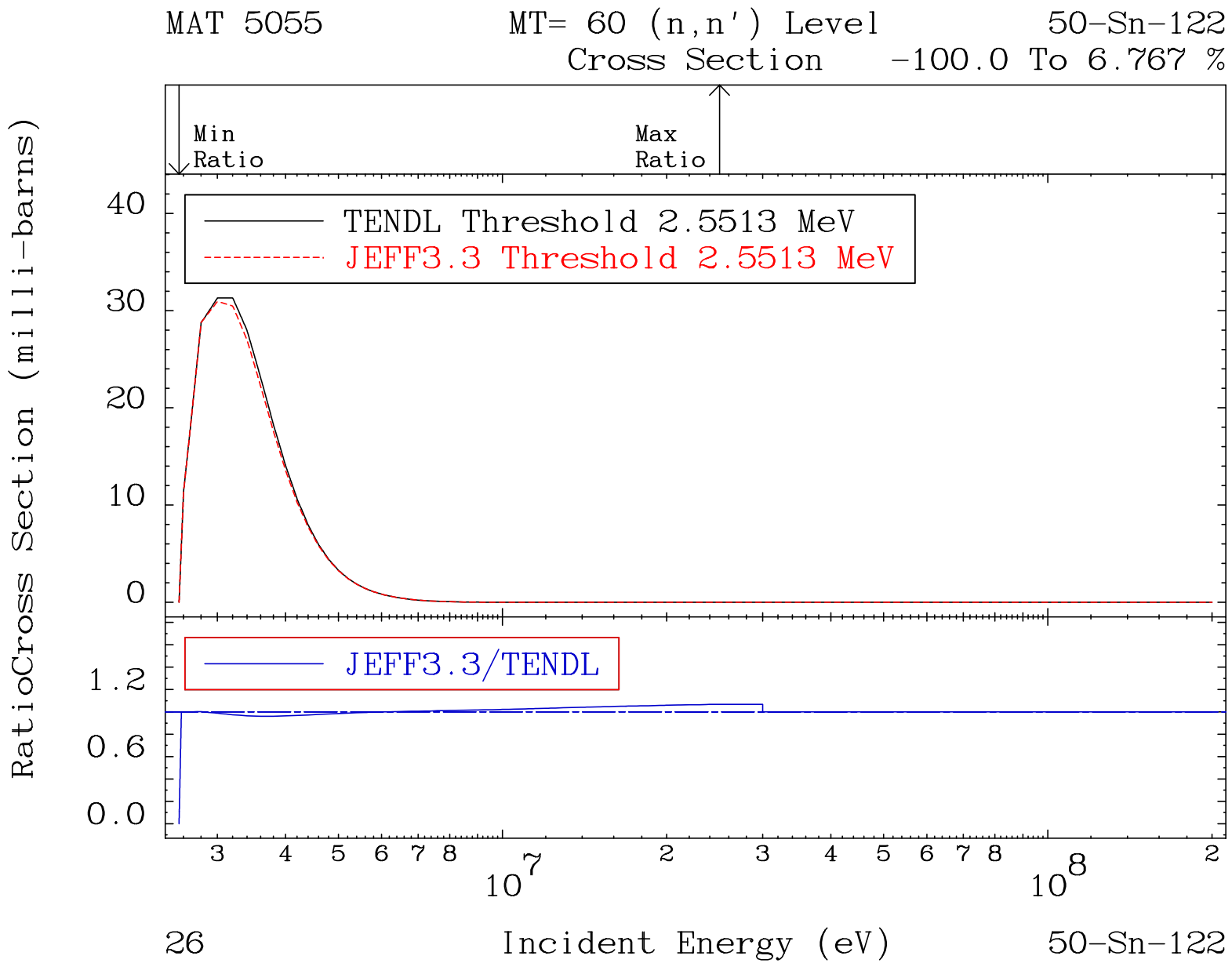

MAT 5055
MT= 55 (n,n') Level
50-Sn-122
Cross Section
-11.49 To 0.825 %
Min
Ratio
TENDL Threshold 2.2644 MeV
JEFF3.3 Threshold 2.2644 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.00
0.90
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
50-Sn-122

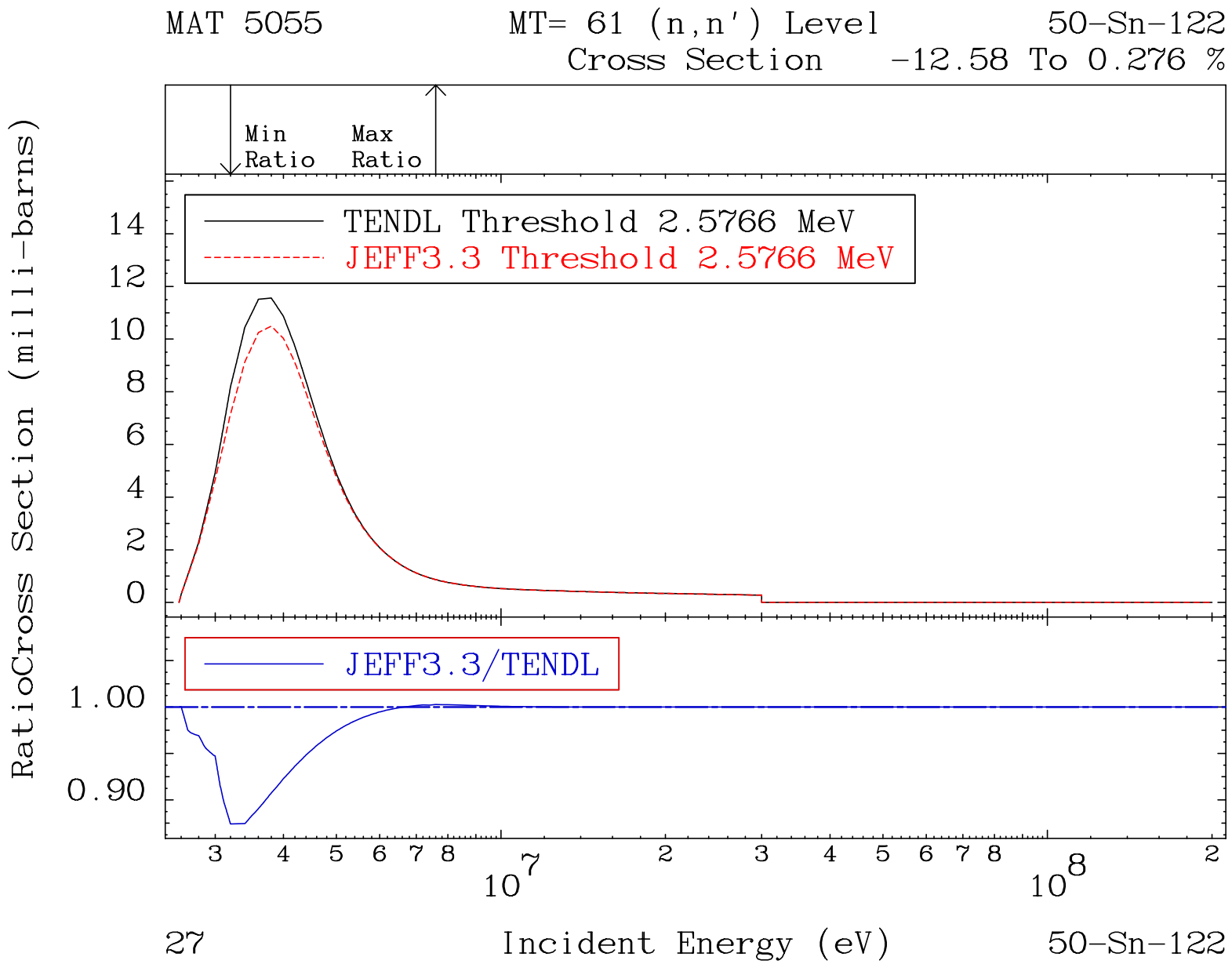

MAT 5055
MT= 56 (n,n') Level
50-Sn-122
Cross Section -100.0 To 1.970 %
Max
Ratio
TENDL Threshold 2.3504 MeV
JEFF3.3 Threshold 2.3504 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
50-Sn-122

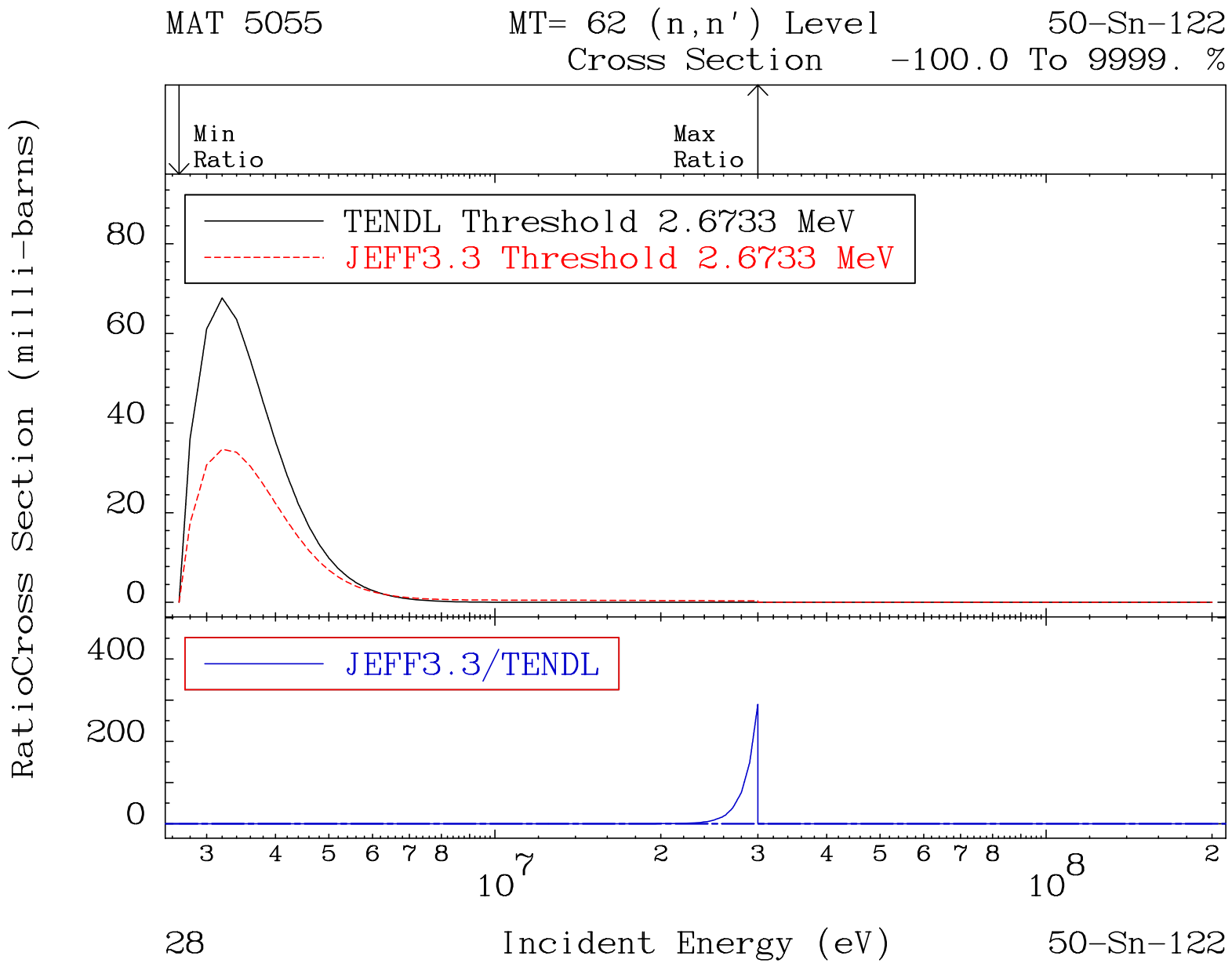

MAT 5055
MT= 57 (n,n') Level
50-Sn-122
Cross Section -12.67 To 0.308 %
Min Ratio
Max Ratio
TENDL Threshold 2.4290 MeV
JEFF3.3 Threshold 2.4290 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
23
50-Sn-122

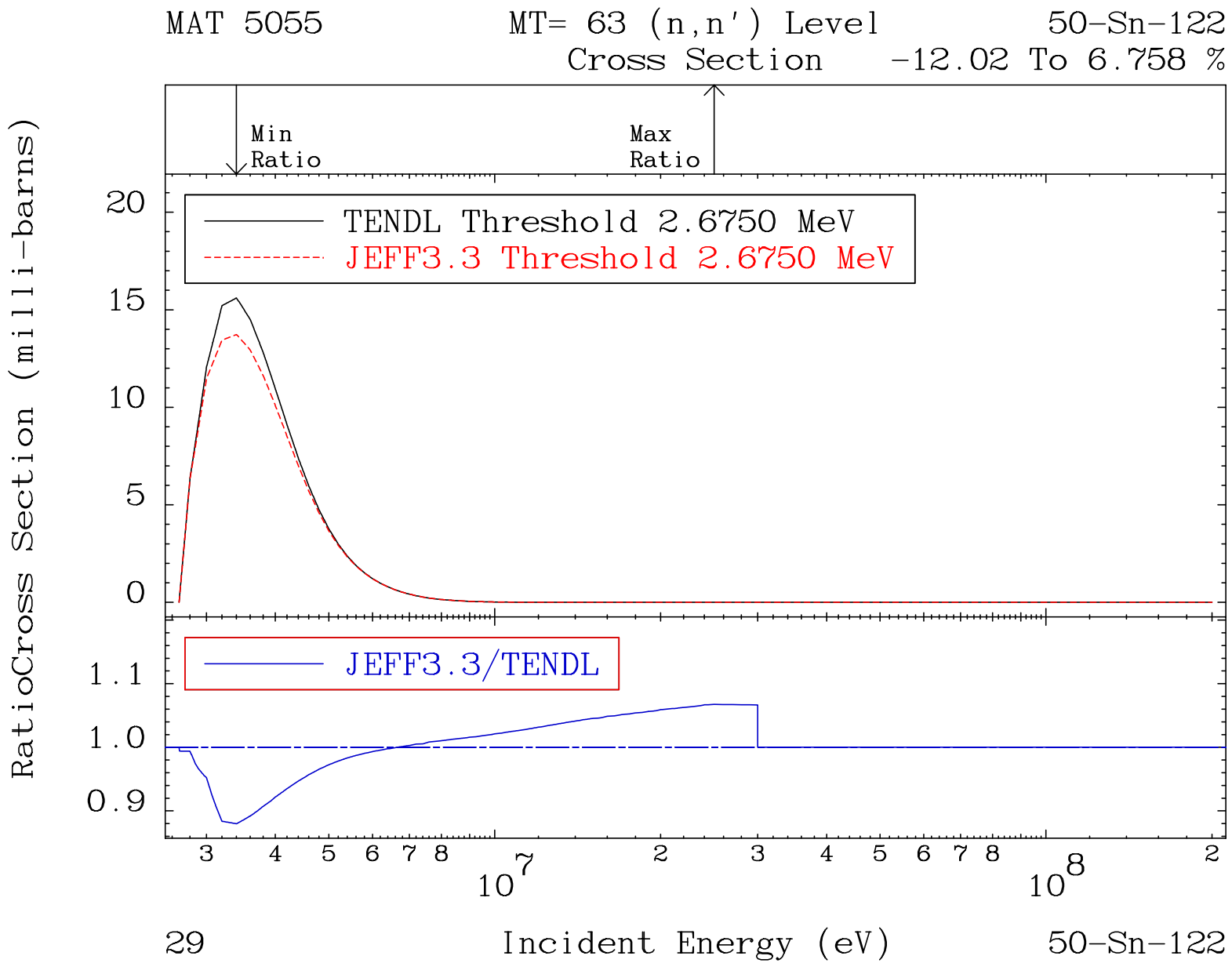

MAT 5055
MT= 58 (n,n') Level
50-Sn-122
Cross Section
-7.314 To 0.952 %
Min
Ratio
TENDL Threshold 2.4355 MeV
JEFF3.3 Threshold 2.4355 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.05
1.00
0.95
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
50-Sn-122

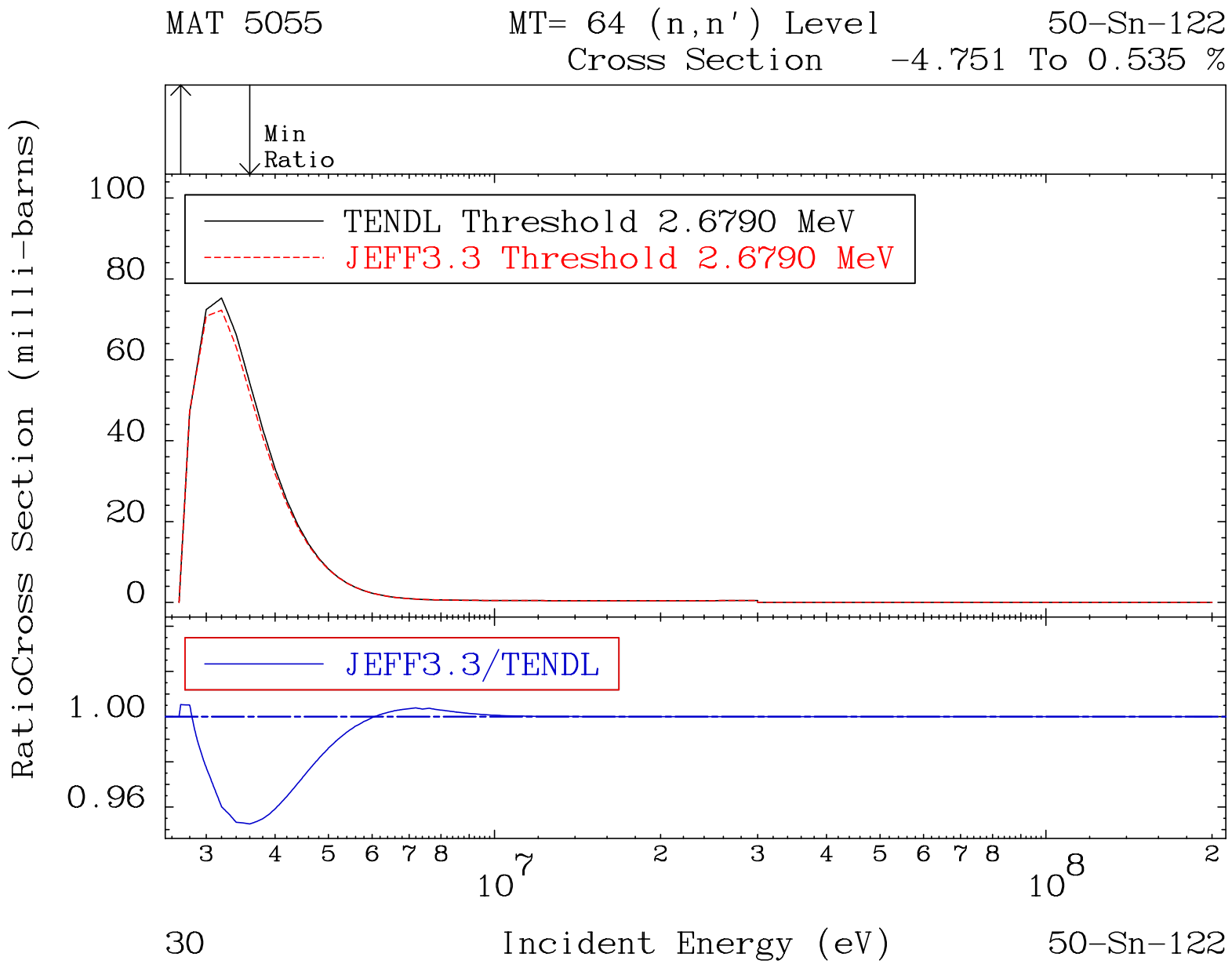

MAT 5055
MT= 59 (n,n') Level
50-Sn-122
Cross Section
-100.0 To 1.817 %
Max
Ratio
TENDL Threshold 2.5133 MeV
JEFF3.3 Threshold 2.5133 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
50-Sn-122

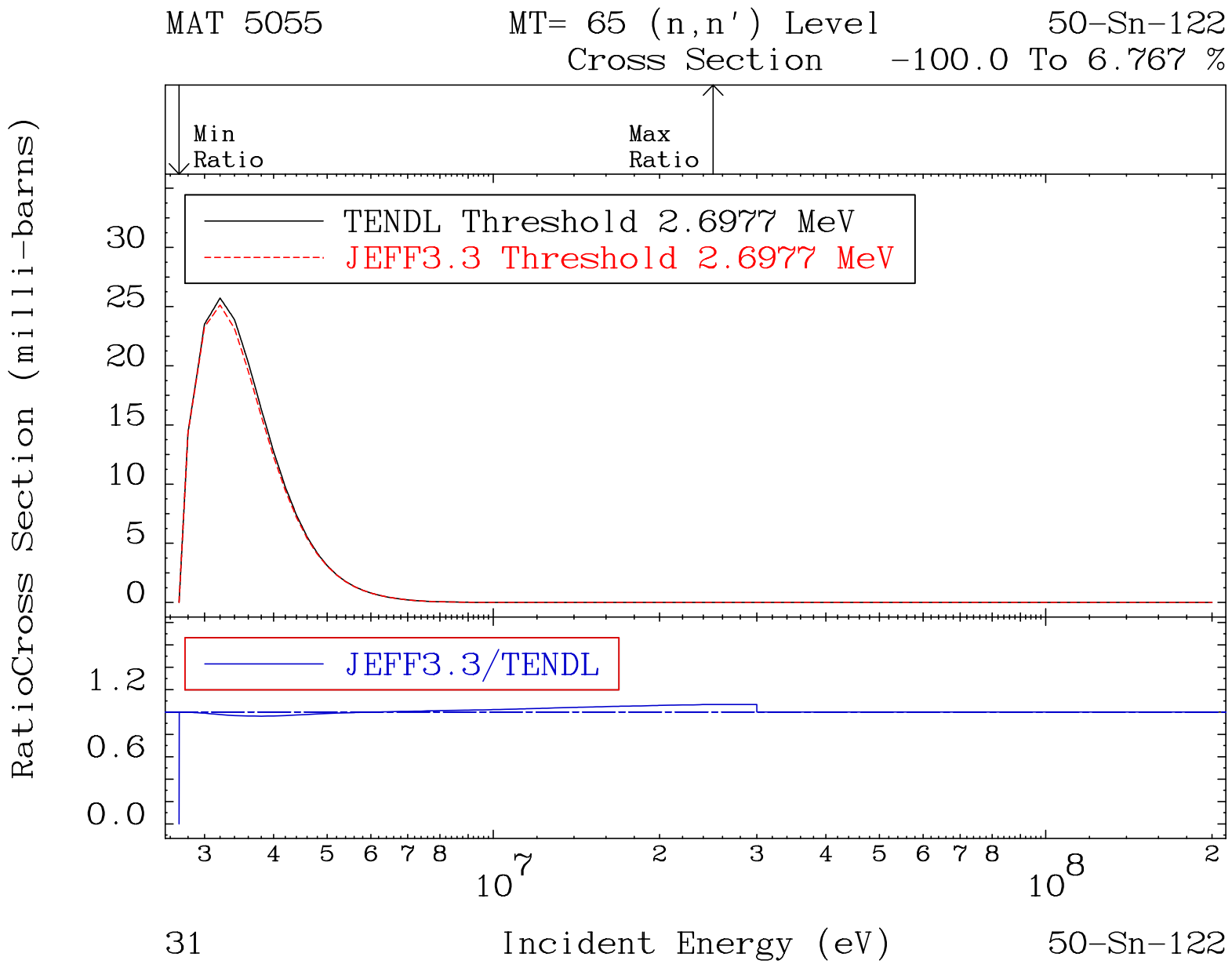

MAT 5055
MT= 60 (n,n') Level
50-Sn-122
Cross Section
-100.0 To 6.767 %
Min Ratio
Max Ratio
TENDL Threshold 2.5513 MeV
JEFF3.3 Threshold 2.5513 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
50-Sn-122

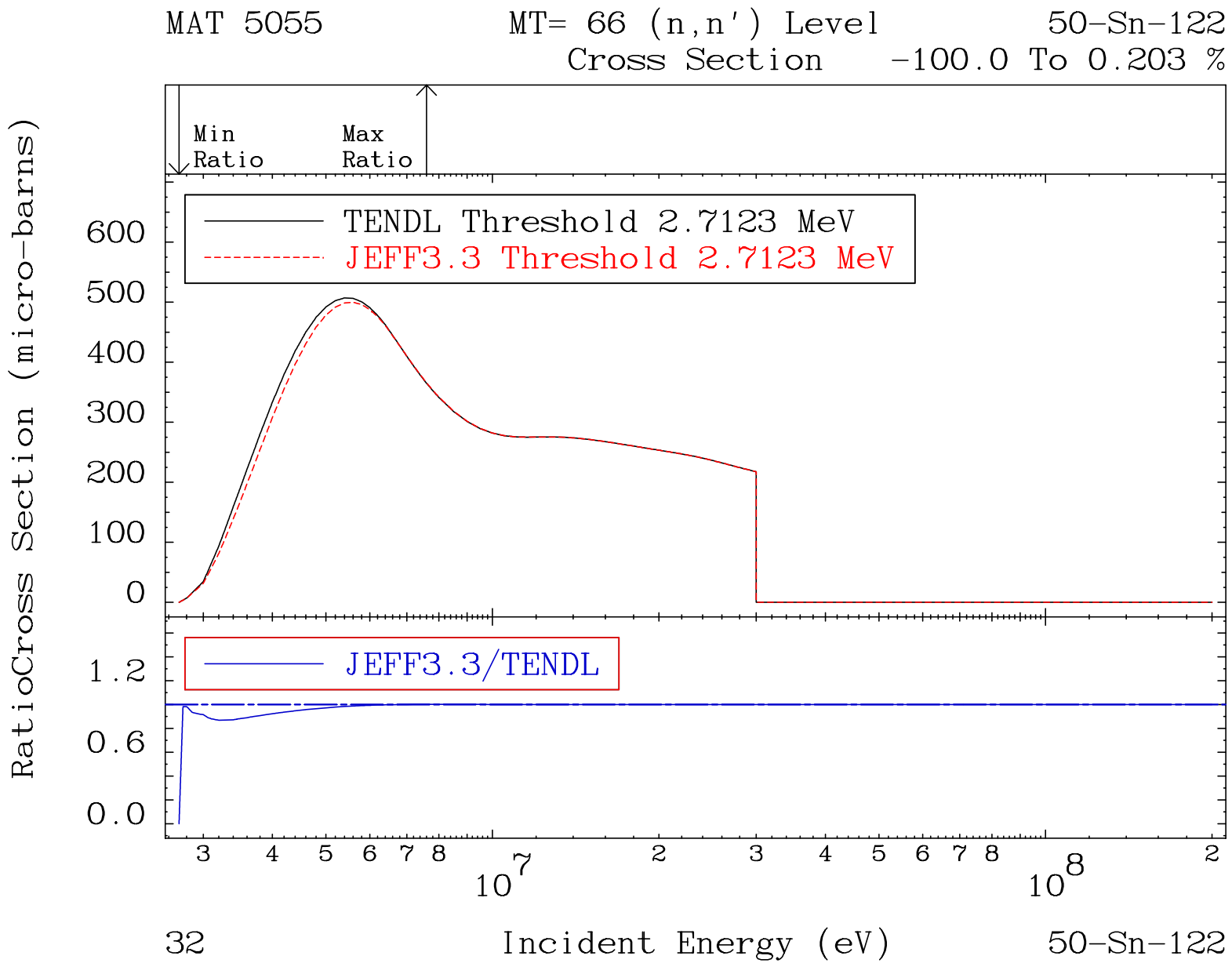

MAT 5055
MT= 61 (n,n') Level
50-Sn-122
Cross Section -12.58 To 0.276 %
Min Ratio
Max Ratio
TENDL Threshold 2.5766 MeV
JEFF3.3 Threshold 2.5766 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
1.00
0.90
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
27
50-Sn-122

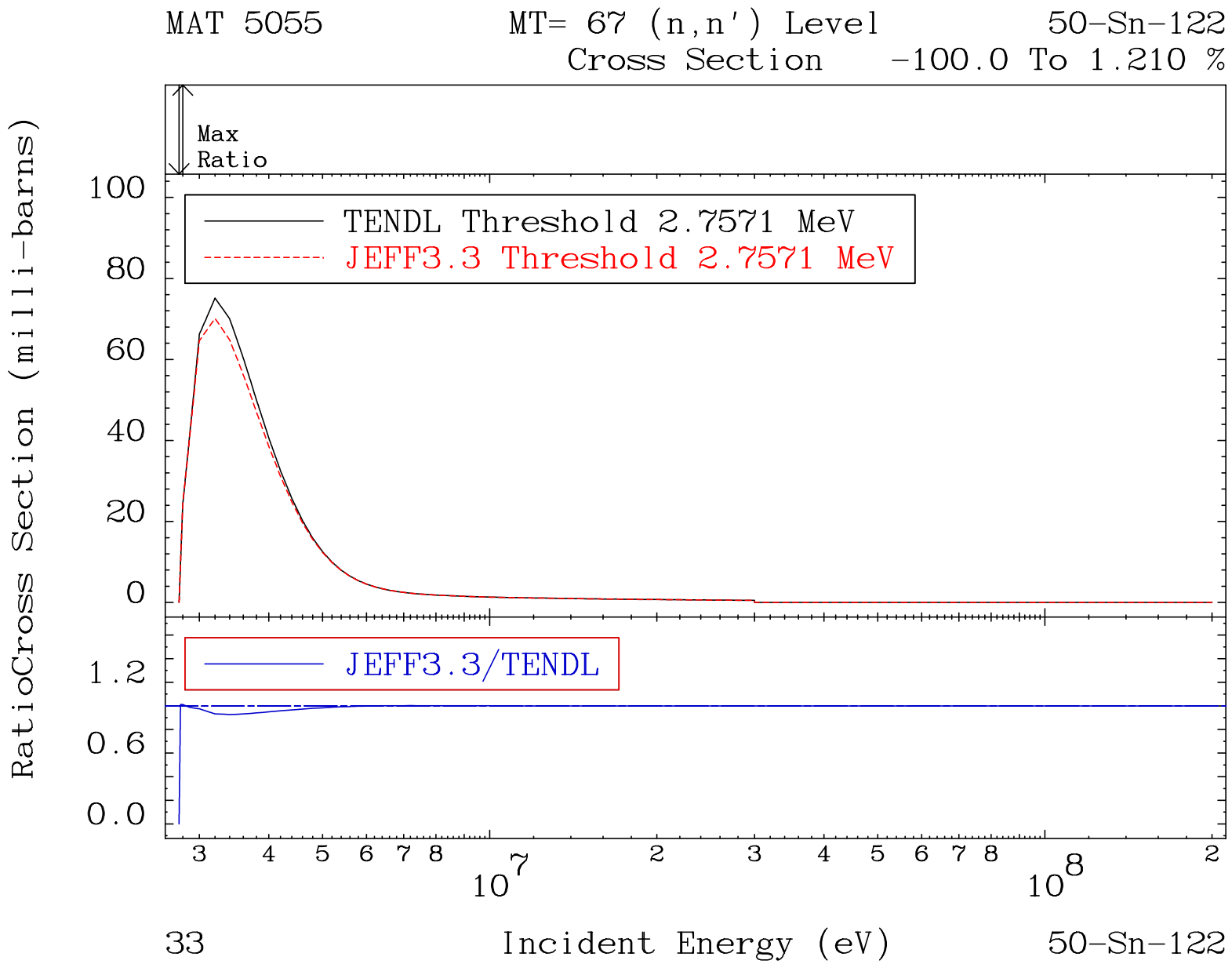

MAT 5055
MT= 62 (n,n') Level
50-Sn-122
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6733 MeV
JEFF3.3 Threshold 2.6733 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
400
200
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
50-Sn-122

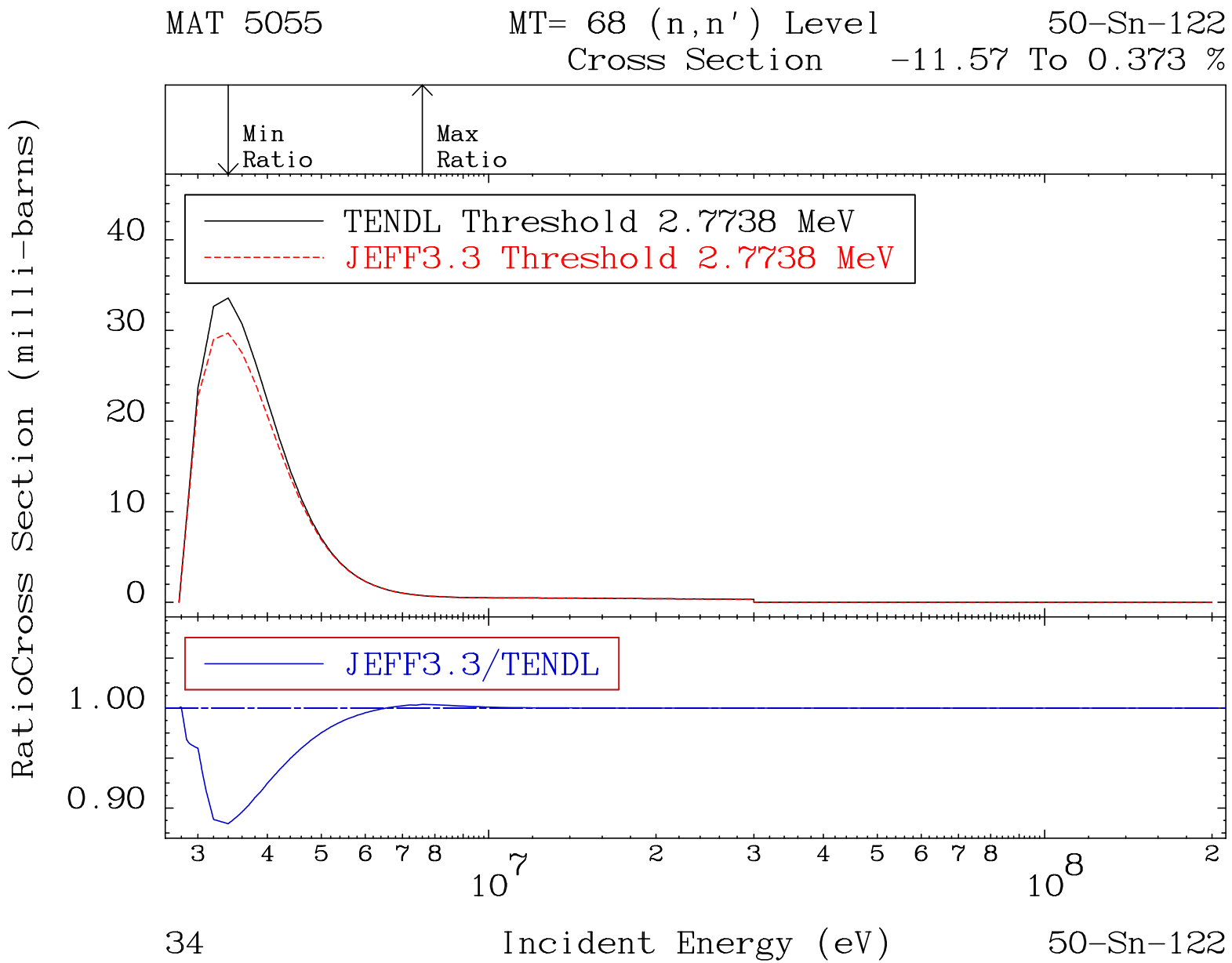

MAT 5055
MT= 63 (n,n') Level
50-Sn-122
Cross Section -12.02 To 6.758 %
Min Ratio
Max Ratio
TENDL Threshold 2.6750 MeV
JEFF3.3 Threshold 2.6750 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
29
50-Sn-122

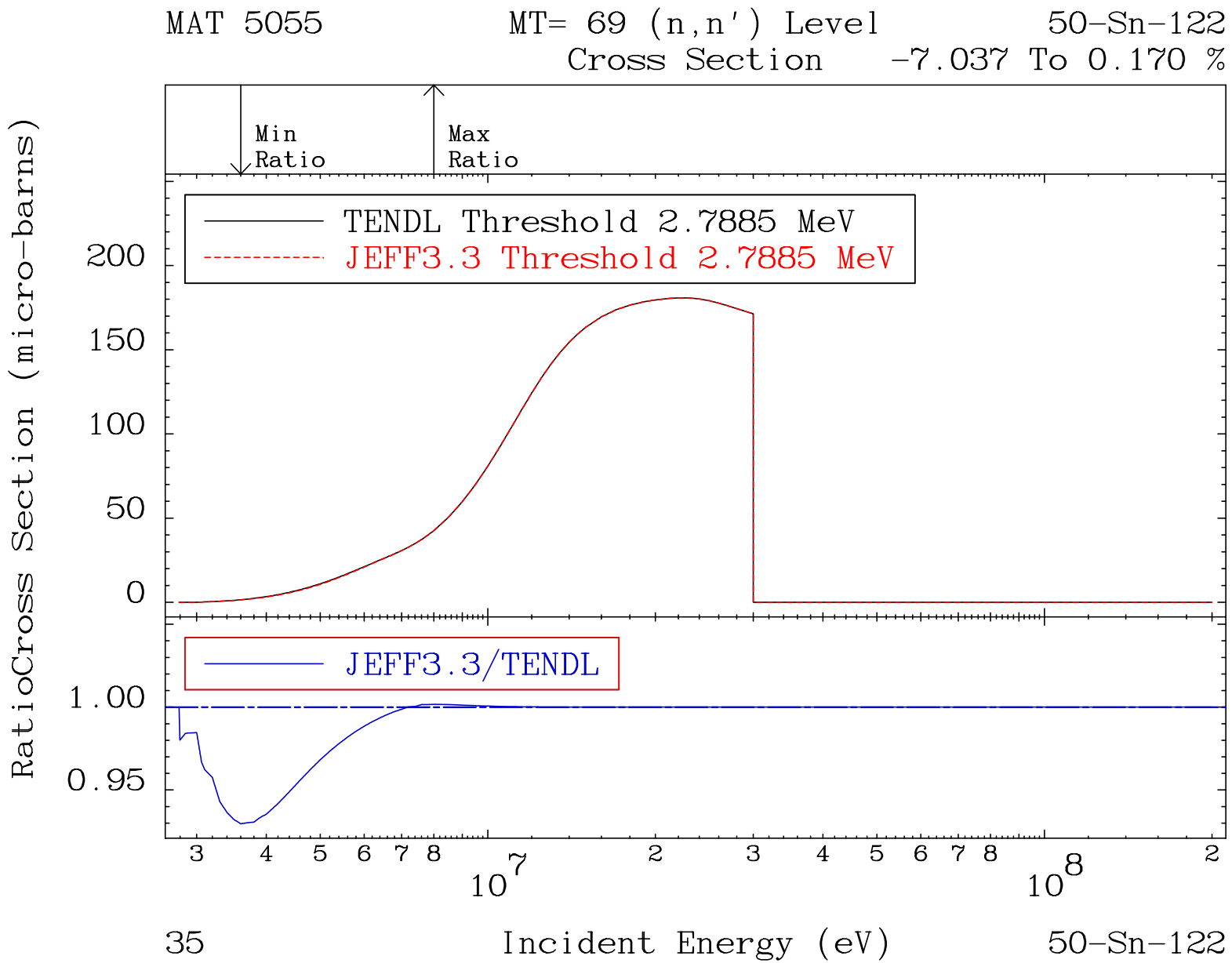

MAT 5055
MT= 64 (n,n') Level
50-Sn-122
Cross Section -4.751 To 0.535 %
Min
Ratio
100
80
60
40
20
0
TENDL Threshold 2.6790 MeV
JEFF3.3 Threshold 2.6790 MeV
JEFF3.3/TENDL
1.00
0.96
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
RatioCross Section (milli-barns)
30
Incident Energy (eV)
50-Sn-122

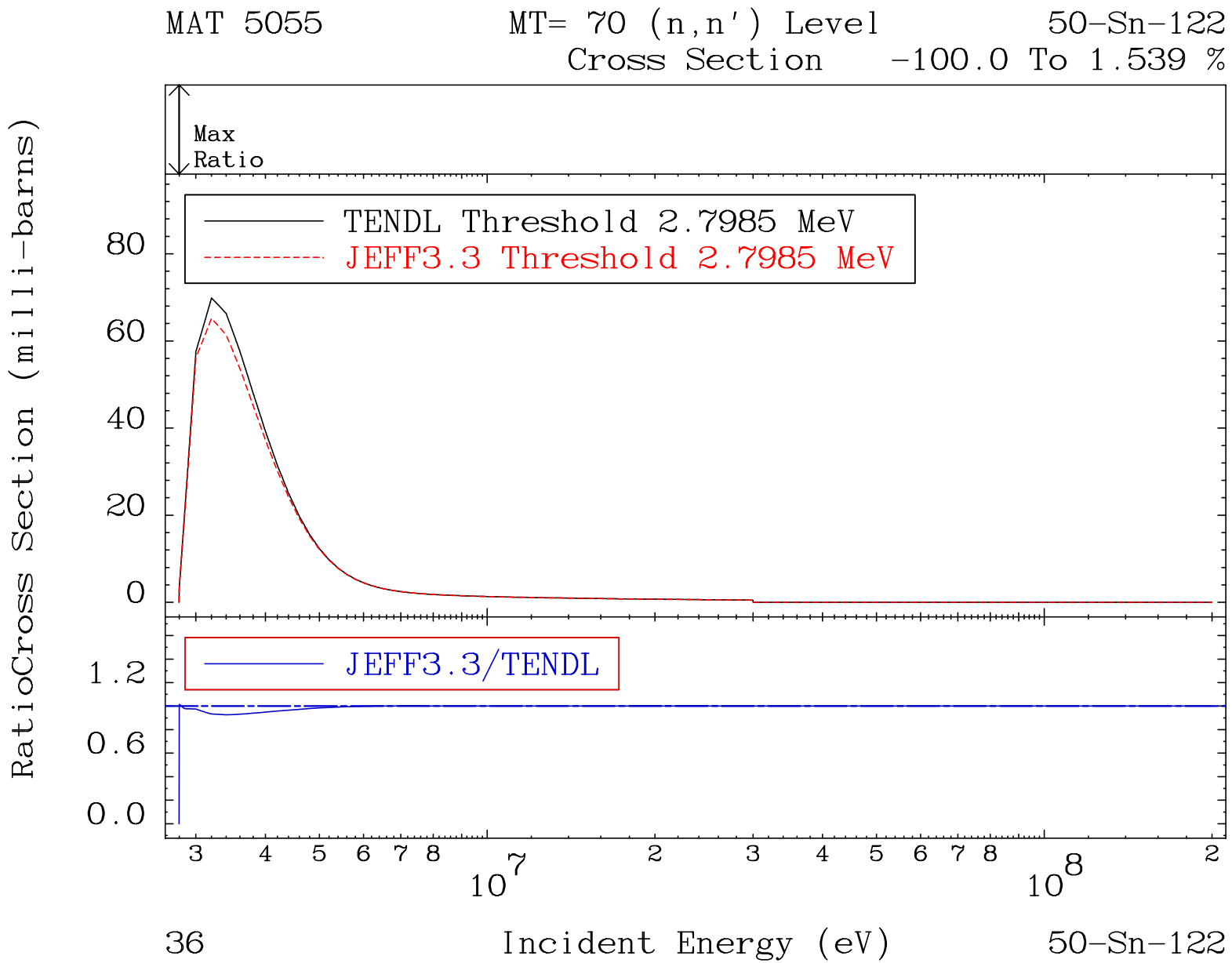

MAT 5055
MT= 65 (n,n') Level
50-Sn-122
Cross Section
-100.0 To 6.767 %
Min Ratio
Max Ratio
TENDL Threshold 2.6977 MeV
JEFF3.3 Threshold 2.6977 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
50-Sn-122

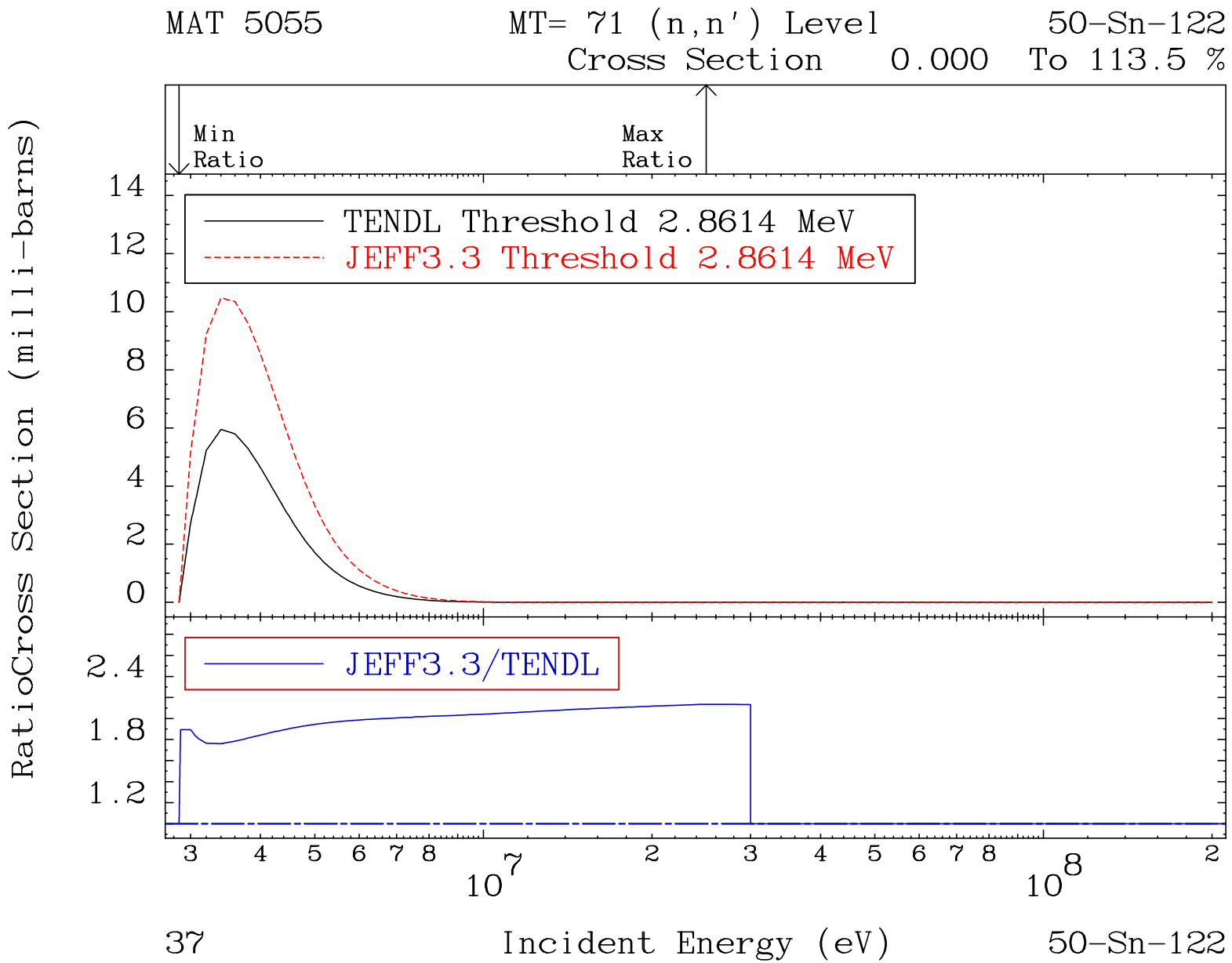

MAT 5055
MT= 66 (n,n') Level
50-Sn-122
Cross Section
-100.0 To 0.203 %
Min Ratio
Max Ratio
TENDL Threshold 2.7123 MeV
JEFF3.3 Threshold 2.7123 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
600
500
400
300
200
100
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
50-Sn-122

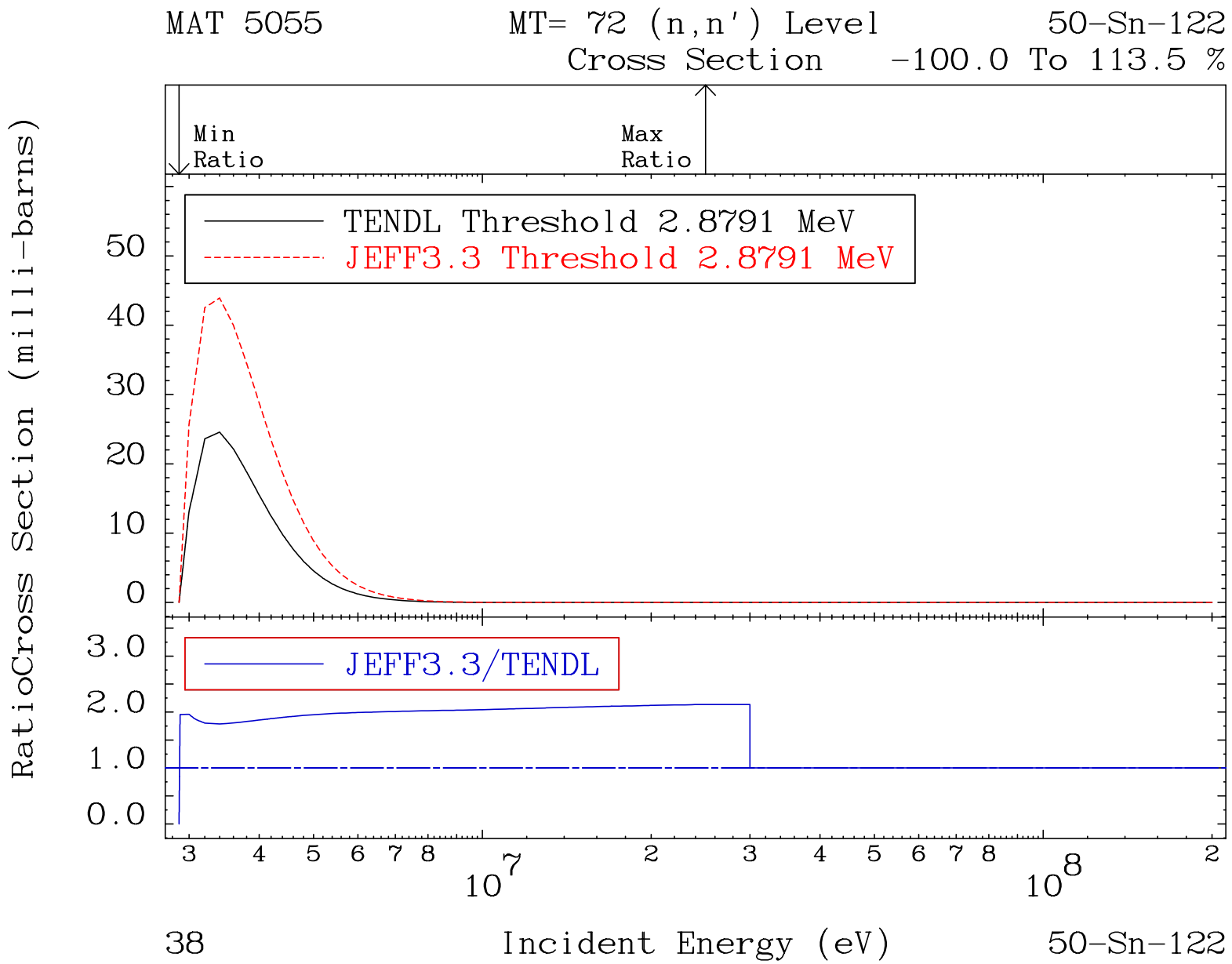

MAT 5055
MT= 67 (n,n') Level
50-Sn-122
Cross Section
-100.0 To 1.210 %
Max
Ratio
TENDL Threshold 2.7571 MeV
JEFF3.3 Threshold 2.7571 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
50-Sn-122

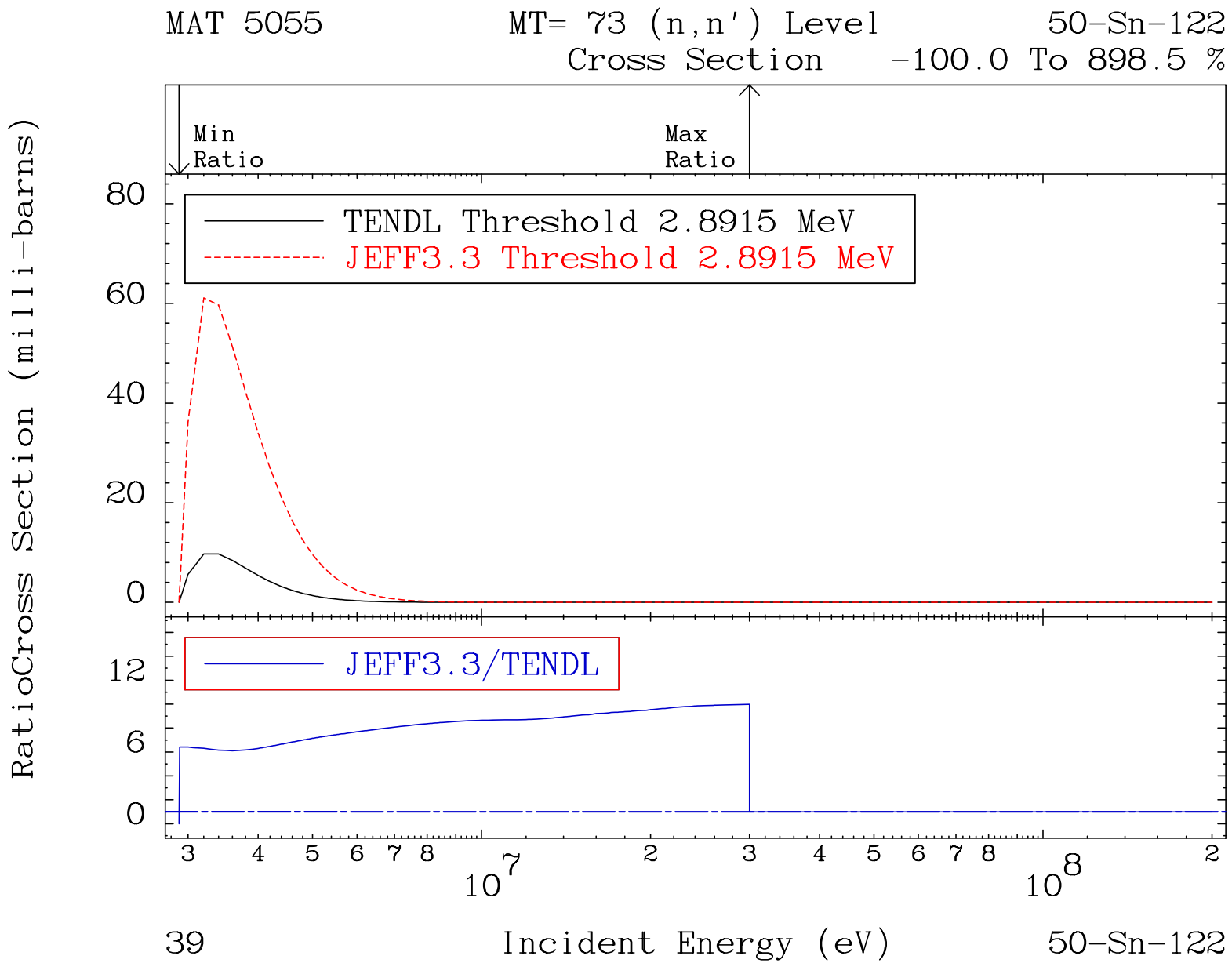

MAT 5055
MT= 68 (n,n') Level
50-Sn-122
Cross Section -11.57 To 0.373 %
Min Ratio
Max Ratio
TENDL Threshold 2.7738 MeV
JEFF3.3 Threshold 2.7738 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.00
0.90
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
50-Sn-122

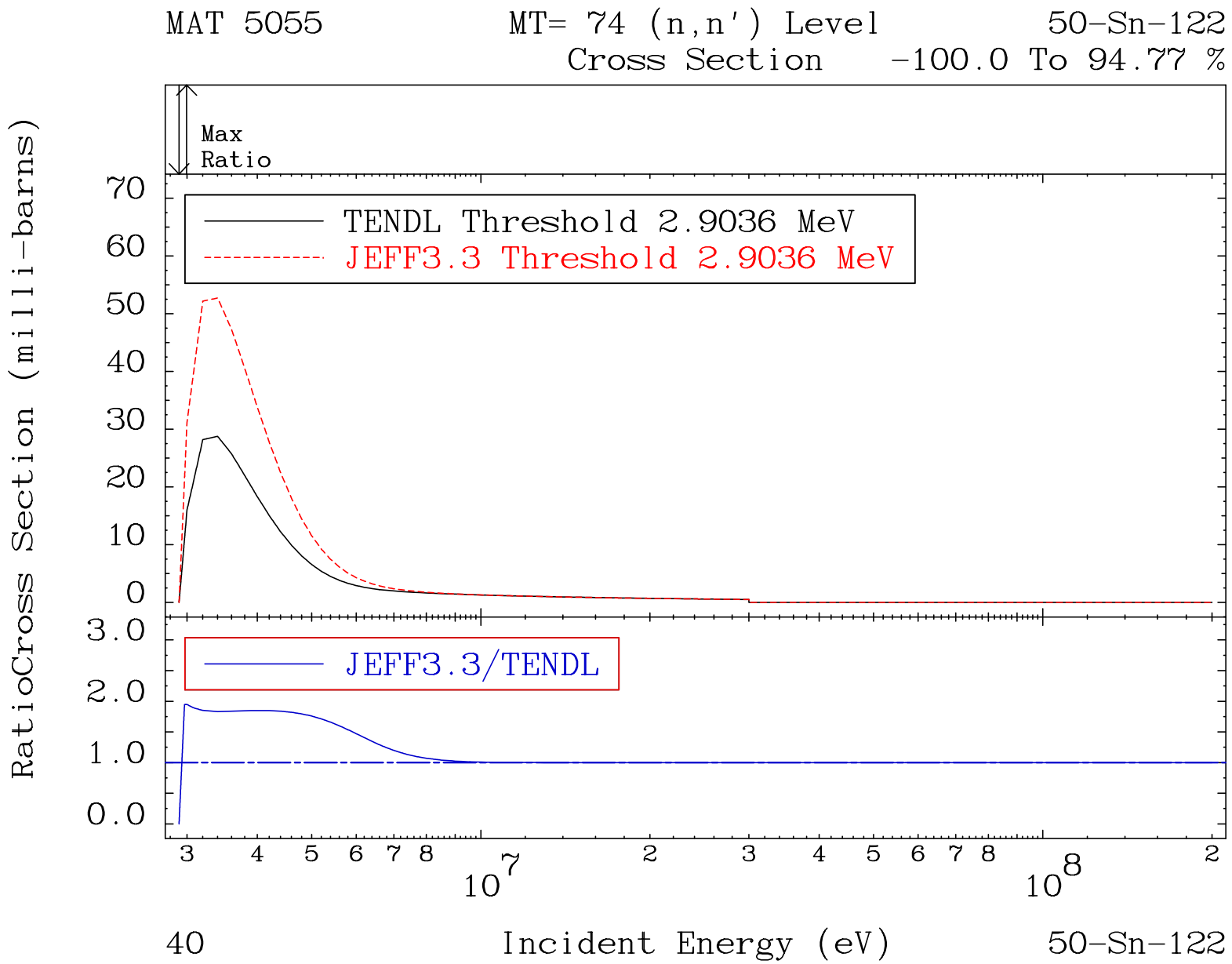

MAT 5055
MT= 69 (n,n') Level
50-Sn-122
Cross Section
-7.037 To 0.170 %
Min Ratio
Max Ratio
TENDL Threshold 2.7885 MeV
JEFF3.3 Threshold 2.7885 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
200
150
100
50
0
1.00
0.95
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
50-Sn-122

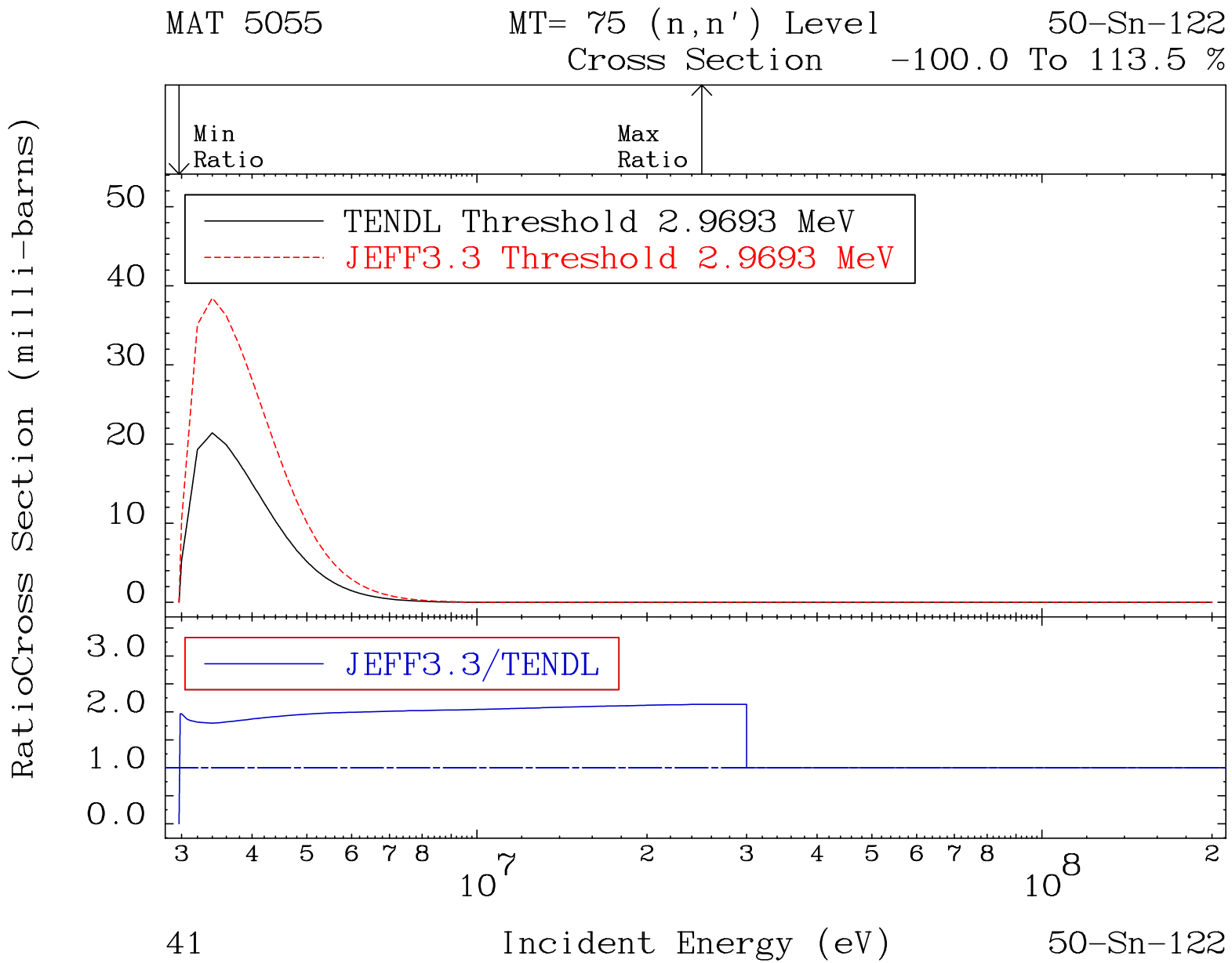

MAT 5055
MT= 70 (n,n') Level
50-Sn-122
Cross Section
-100.0 To 1.539 %
Max
Ratio
TENDL Threshold 2.7985 MeV
JEFF3.3 Threshold 2.7985 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
50-Sn-122

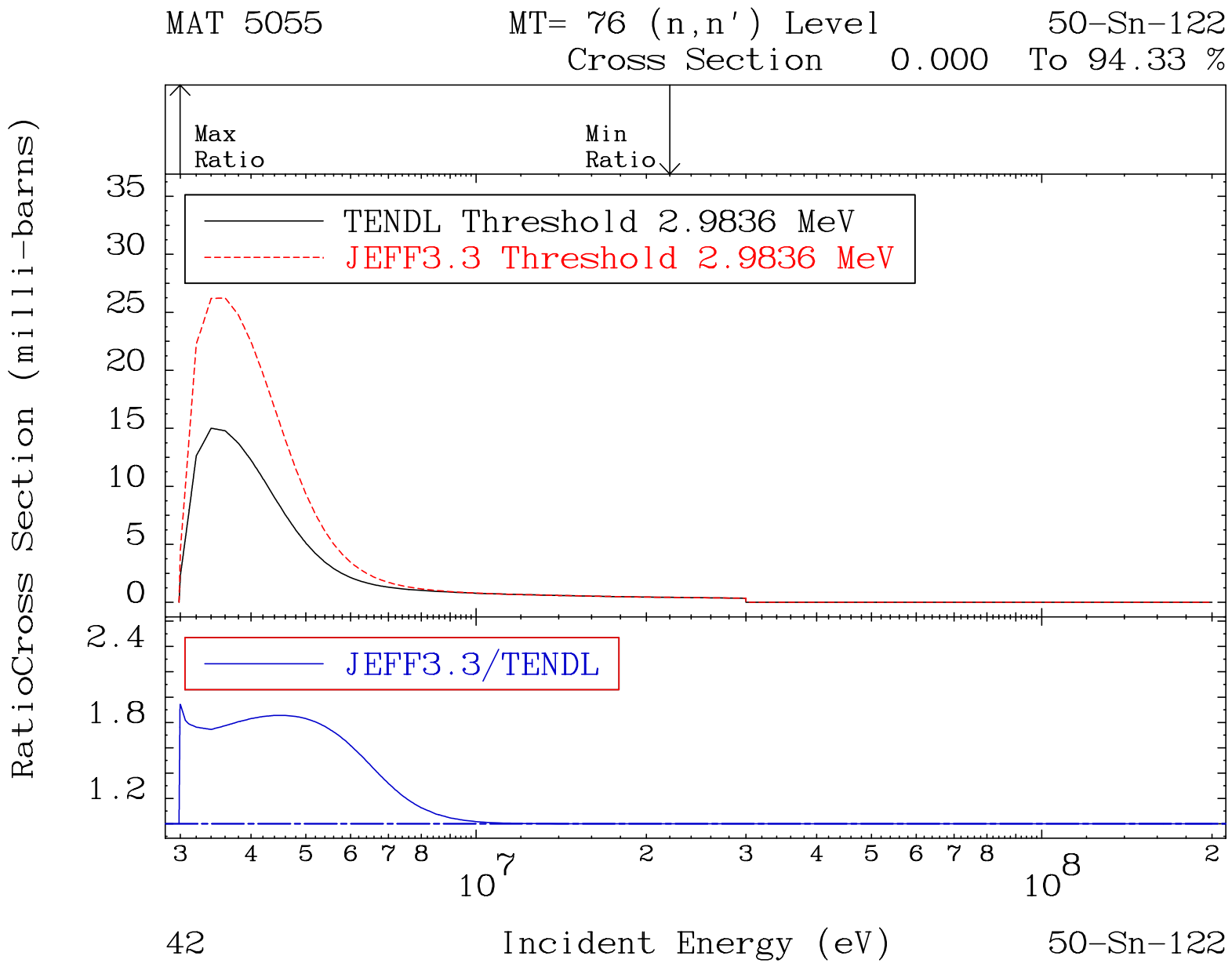

MAT 5055
MT= 71 (n,n') Level
50-Sn-122
Cross Section 0.000 To 113.5 %
Min Ratio
Max Ratio
TENDL Threshold 2.8614 MeV
JEFF3.3 Threshold 2.8614 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
37
50-Sn-122

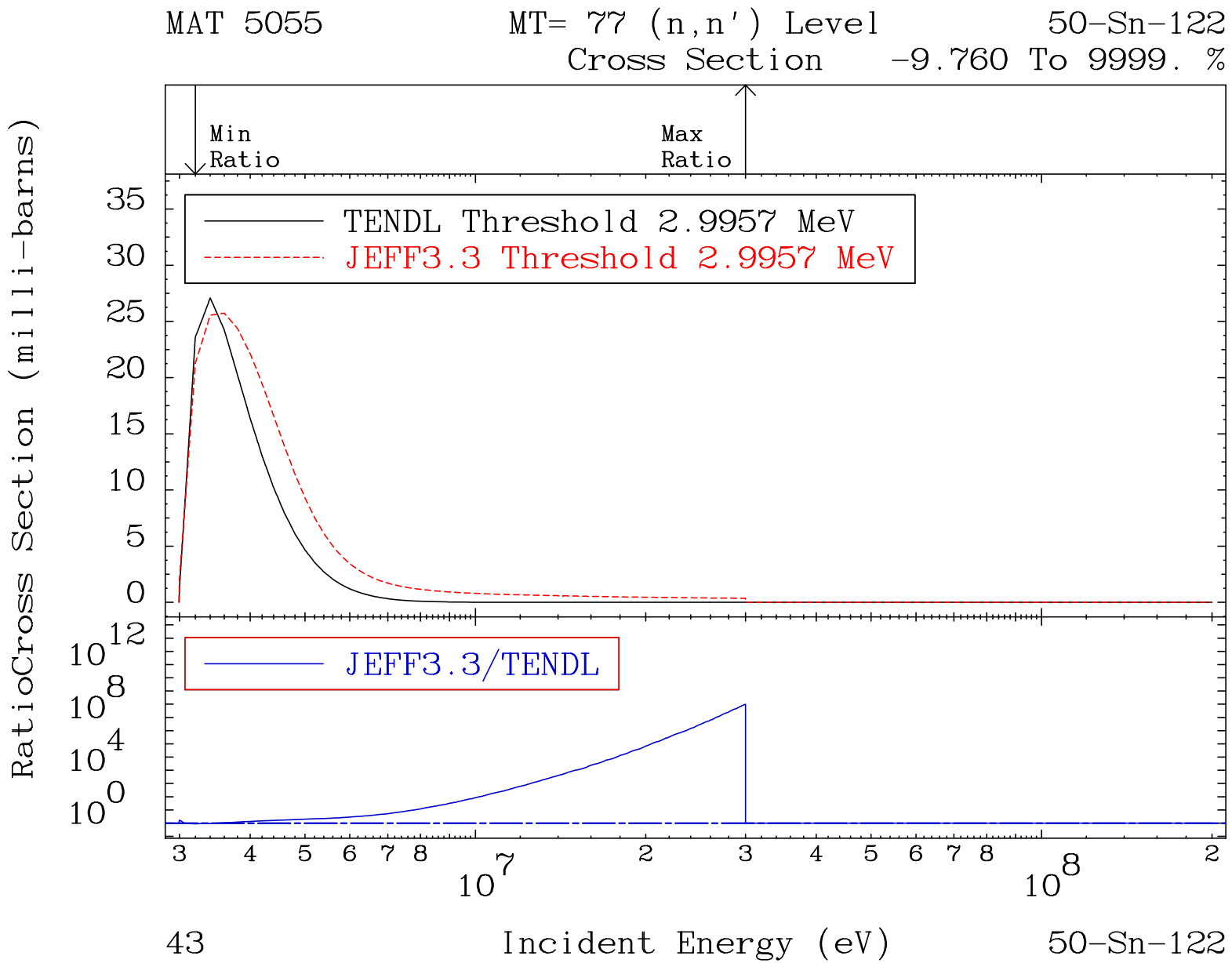

MAT 5055
MT= 72 (n,n') Level
50-Sn-122
Cross Section
-100.0 To 113.5 %
Min Ratio
Max Ratio
TENDL Threshold 2.8791 MeV
JEFF3.3 Threshold 2.8791 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
50-Sn-122

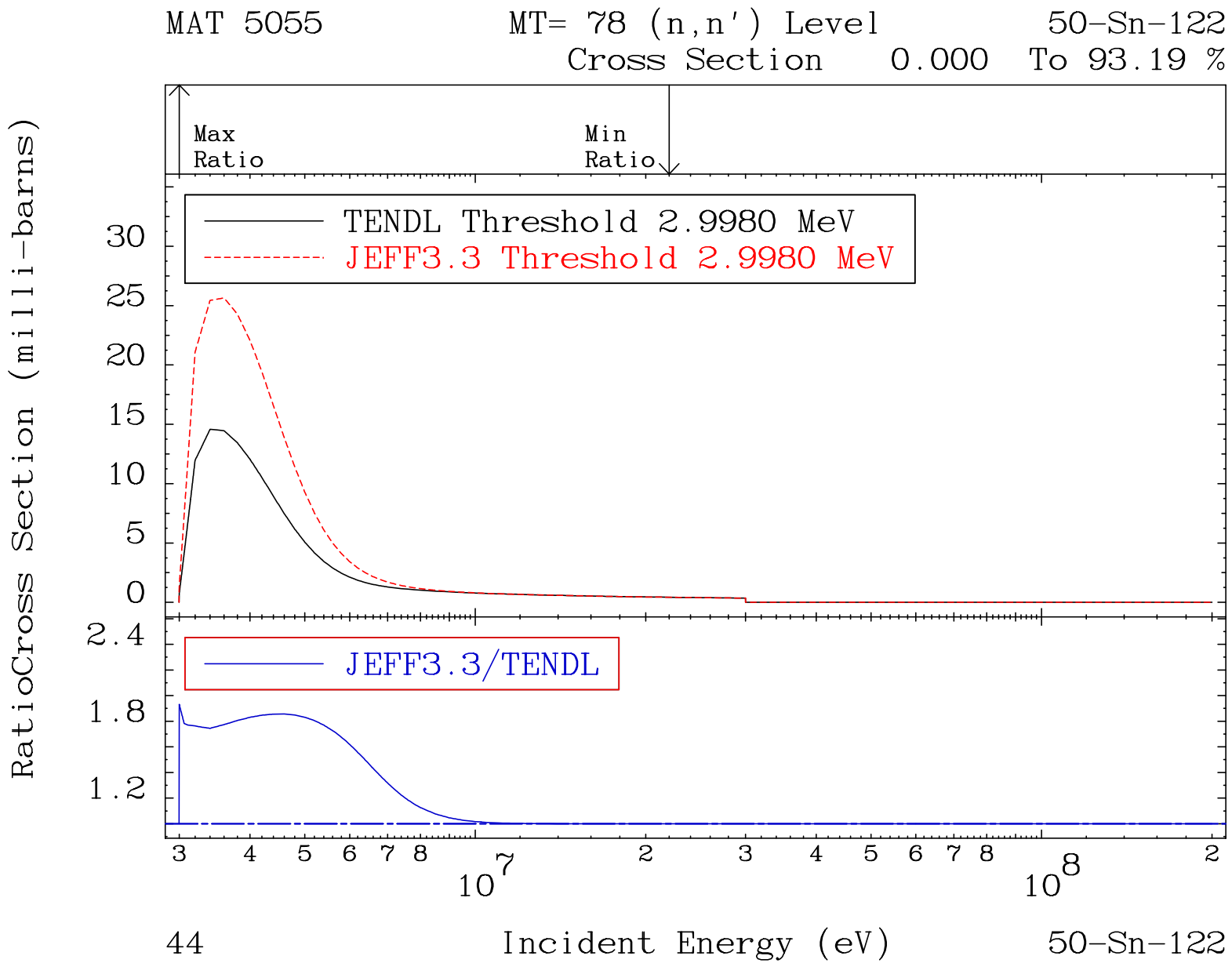

MAT 5055
MT= 73 (n,n') Level
50-Sn-122
Cross Section
-100.0 To 898.5 %
Min Ratio
Max Ratio
TENDL Threshold 2.8915 MeV
JEFF3.3 Threshold 2.8915 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
12
6
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
39
Incident Energy (eV)
50-Sn-122

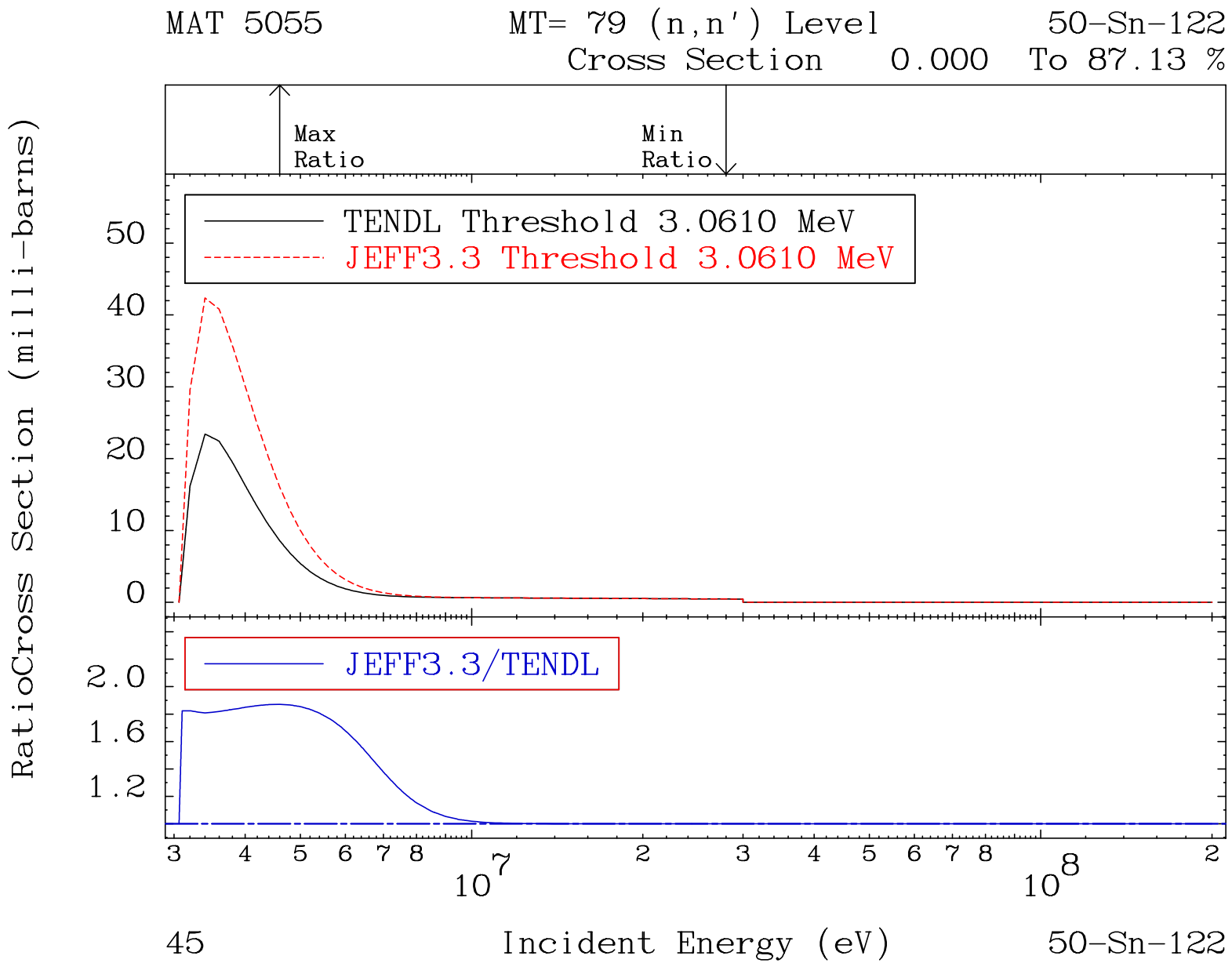

MAT 5055
MT= 74 (n,n') Level
50-Sn-122
Cross Section
-100.0 To 94.77 %
Max
Ratio
TENDL Threshold 2.9036 MeV
JEFF3.3 Threshold 2.9036 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
50-Sn-122

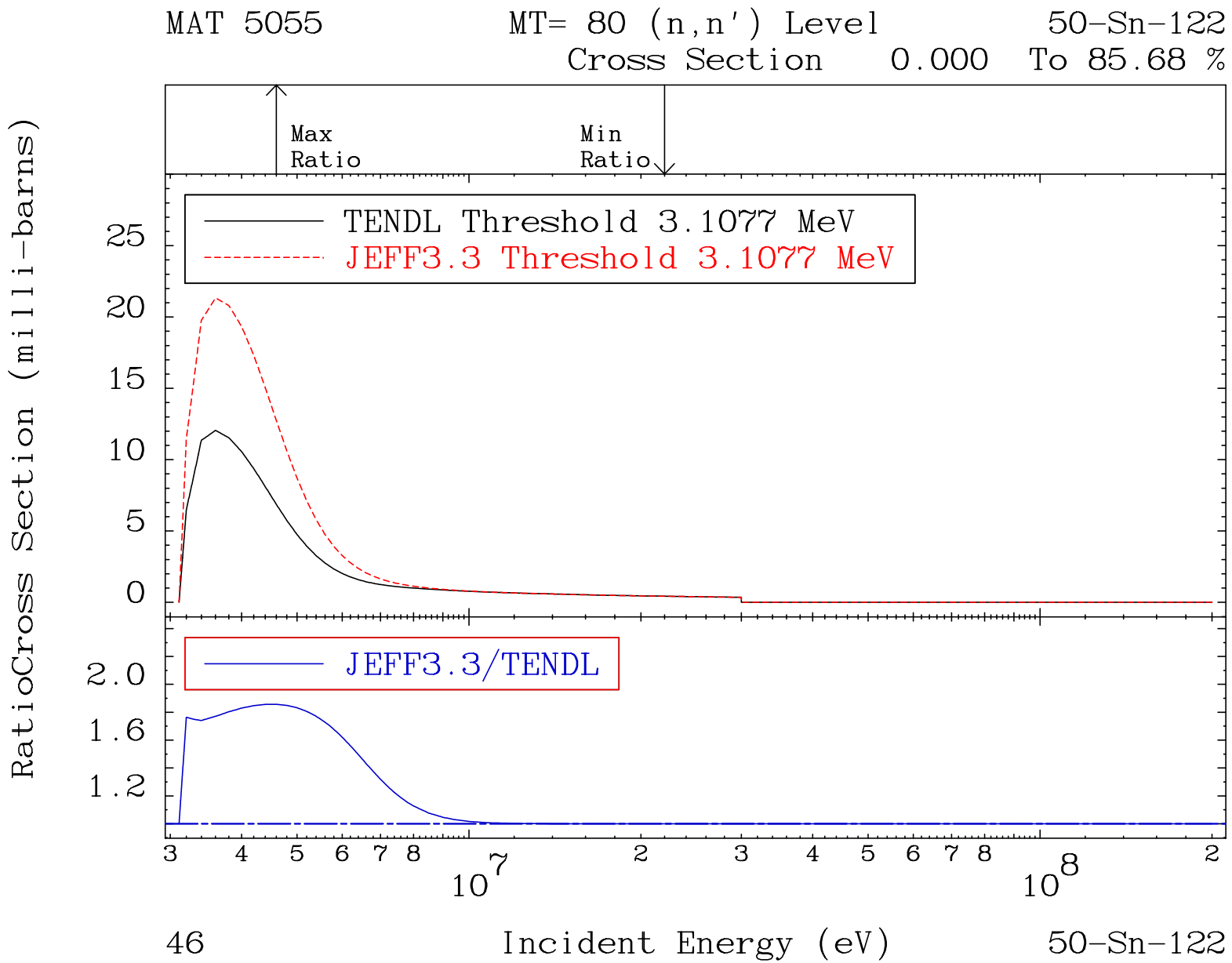

MAT 5055
MT= 75 (n,n') Level
50-Sn-122
Cross Section
-100.0 To 113.5 %
Min Ratio
Max Ratio
TENDL Threshold 2.9693 MeV
JEFF3.3 Threshold 2.9693 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
41
Incident Energy (eV)
50-Sn-122

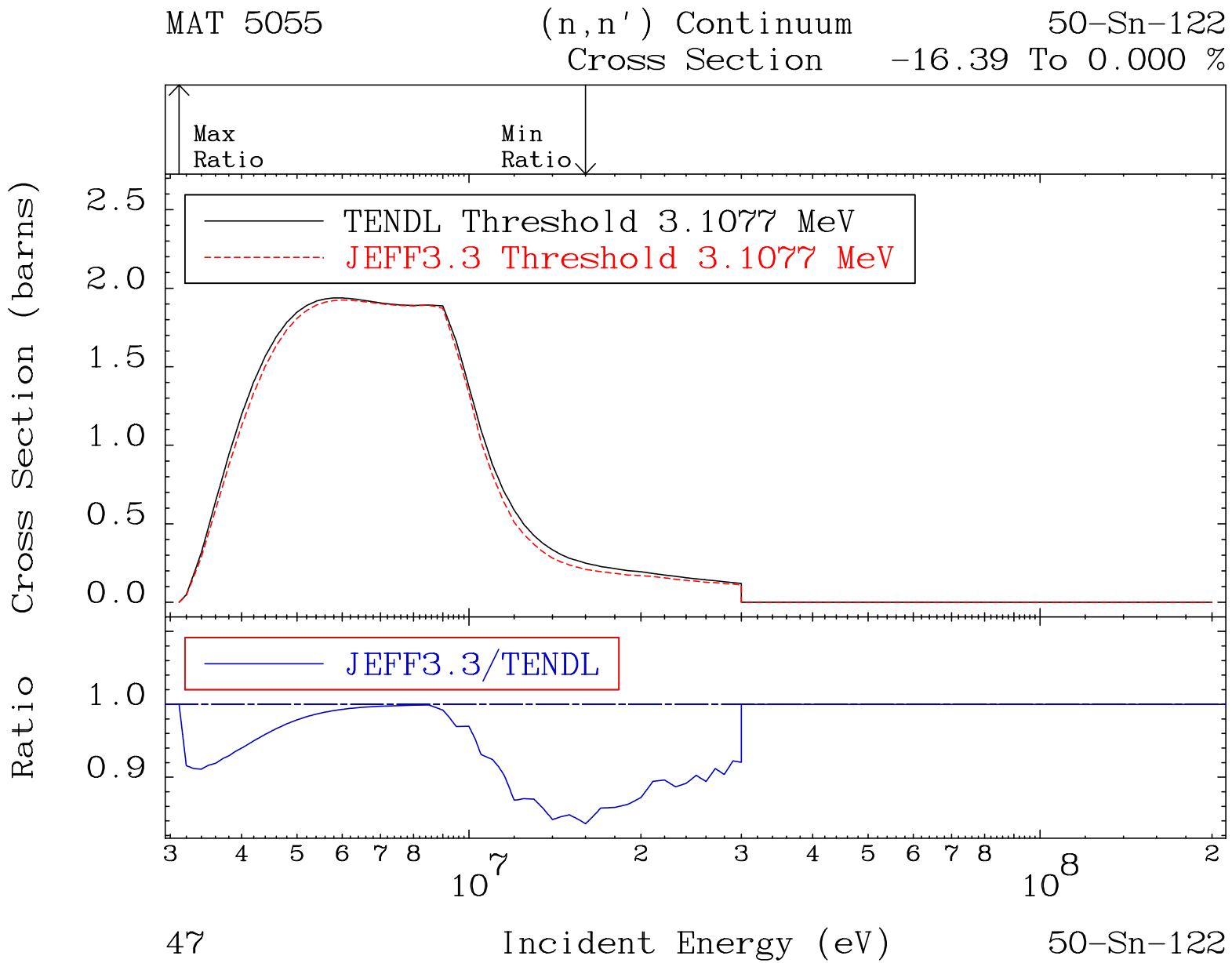

MAT 5055
MT= 76 (n,n') Level
50-Sn-122
Cross Section 0.000 To 94.33 %
Max Ratio
Min Ratio
TENDL Threshold 2.9836 MeV
JEFF3.3 Threshold 2.9836 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
42
50-Sn-122

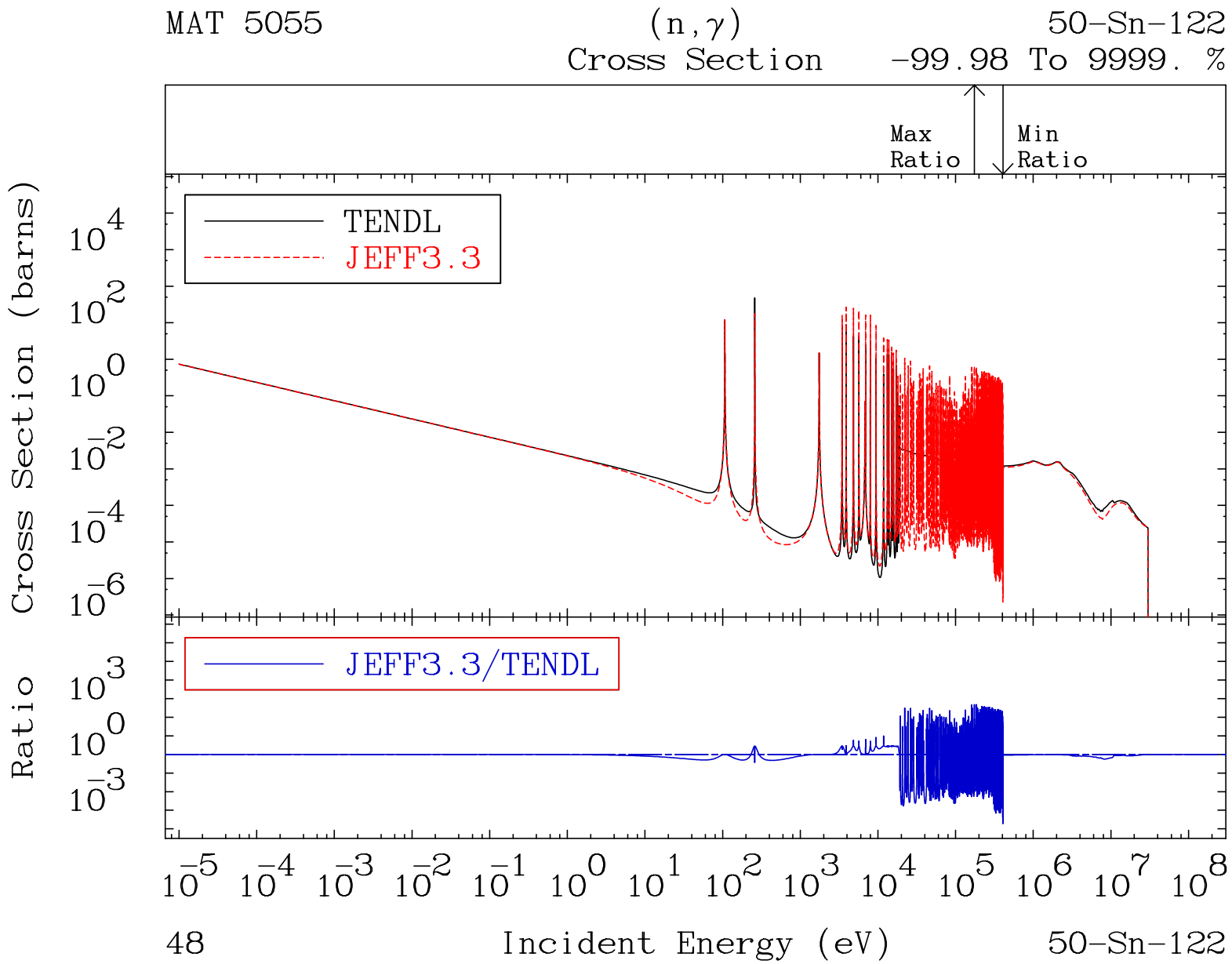

MAT 5055
MT= 77 (n,n') Level
50-Sn-122
Cross Section
-9.760 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.9957 MeV
JEFF3.3 Threshold 2.9957 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
43
50-Sn-122

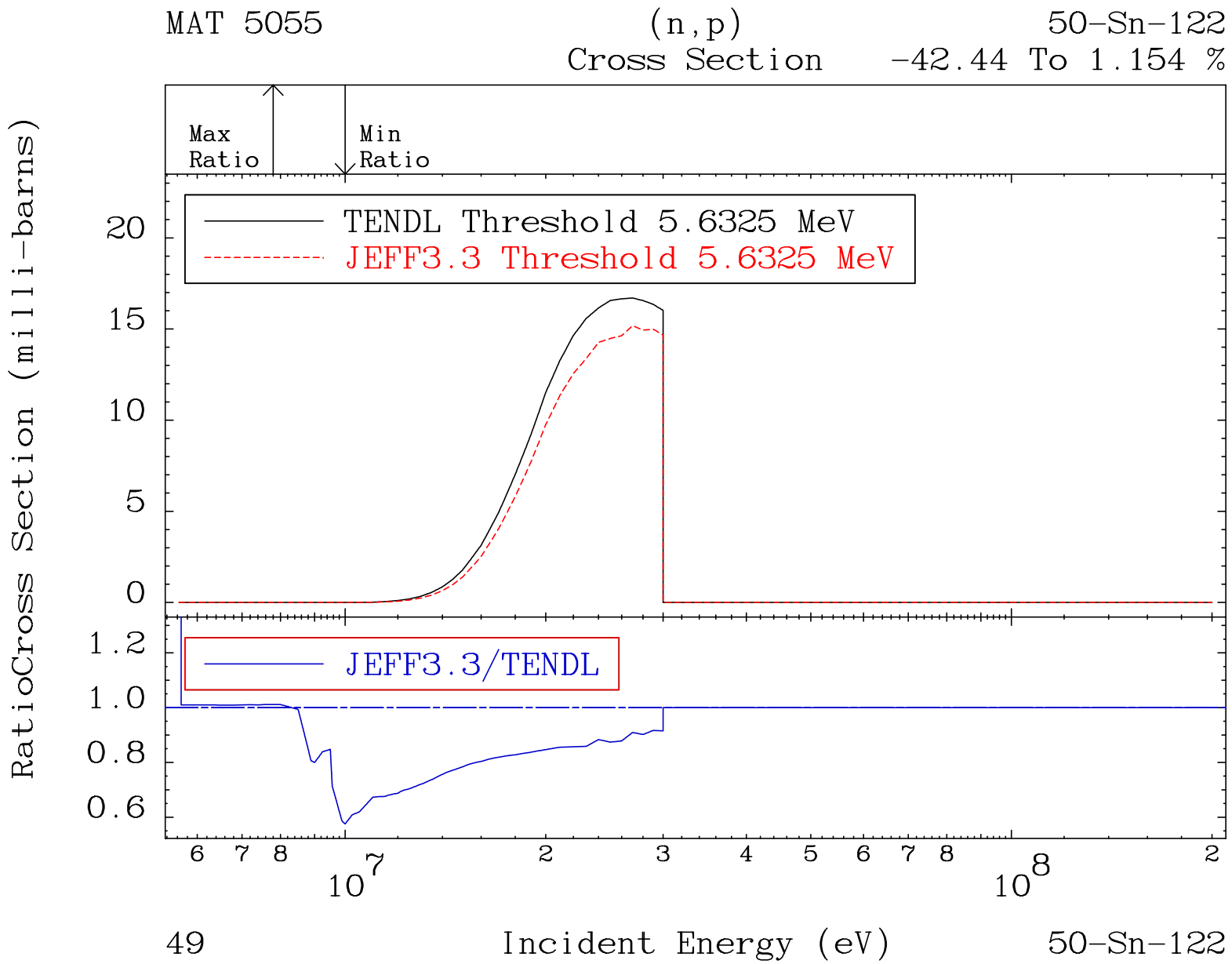

MAT 5055
MT= 78 (n,n') Level
50-Sn-122
Cross Section 0.000 To 93.19 %
Max Ratio
Min Ratio
TENDL Threshold 2.9980 MeV
JEFF3.3 Threshold 2.9980 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
2.4
1.8
1.2
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
44
Incident Energy (eV)
50-Sn-122

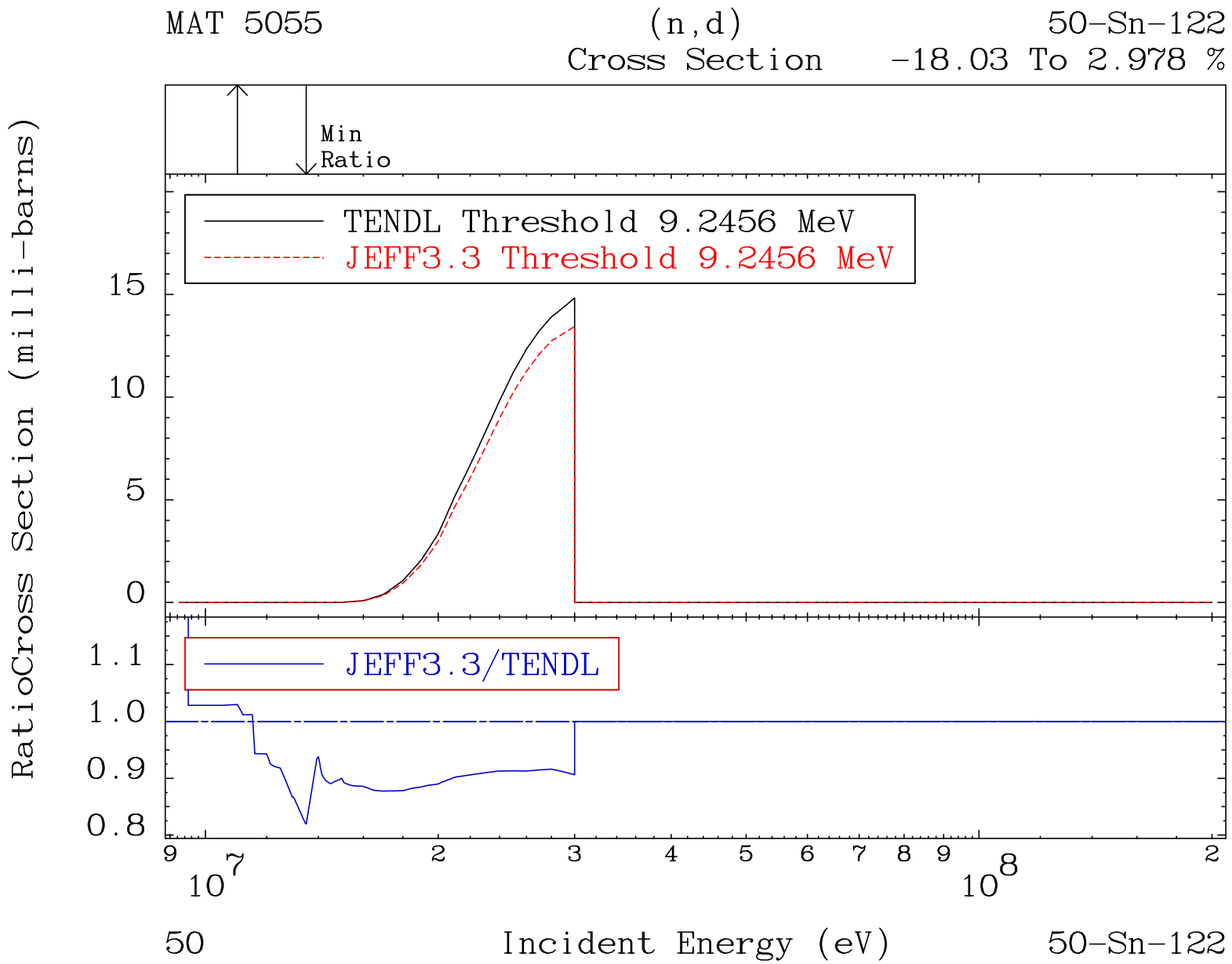

MAT 5055
MT= 79 (n,n') Level
50-Sn-122
Cross Section 0.000 To 87.13 %
Max Ratio
Min Ratio
TENDL Threshold 3.0610 MeV
JEFF3.3 Threshold 3.0610 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.6
1.2
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
45
50-Sn-122

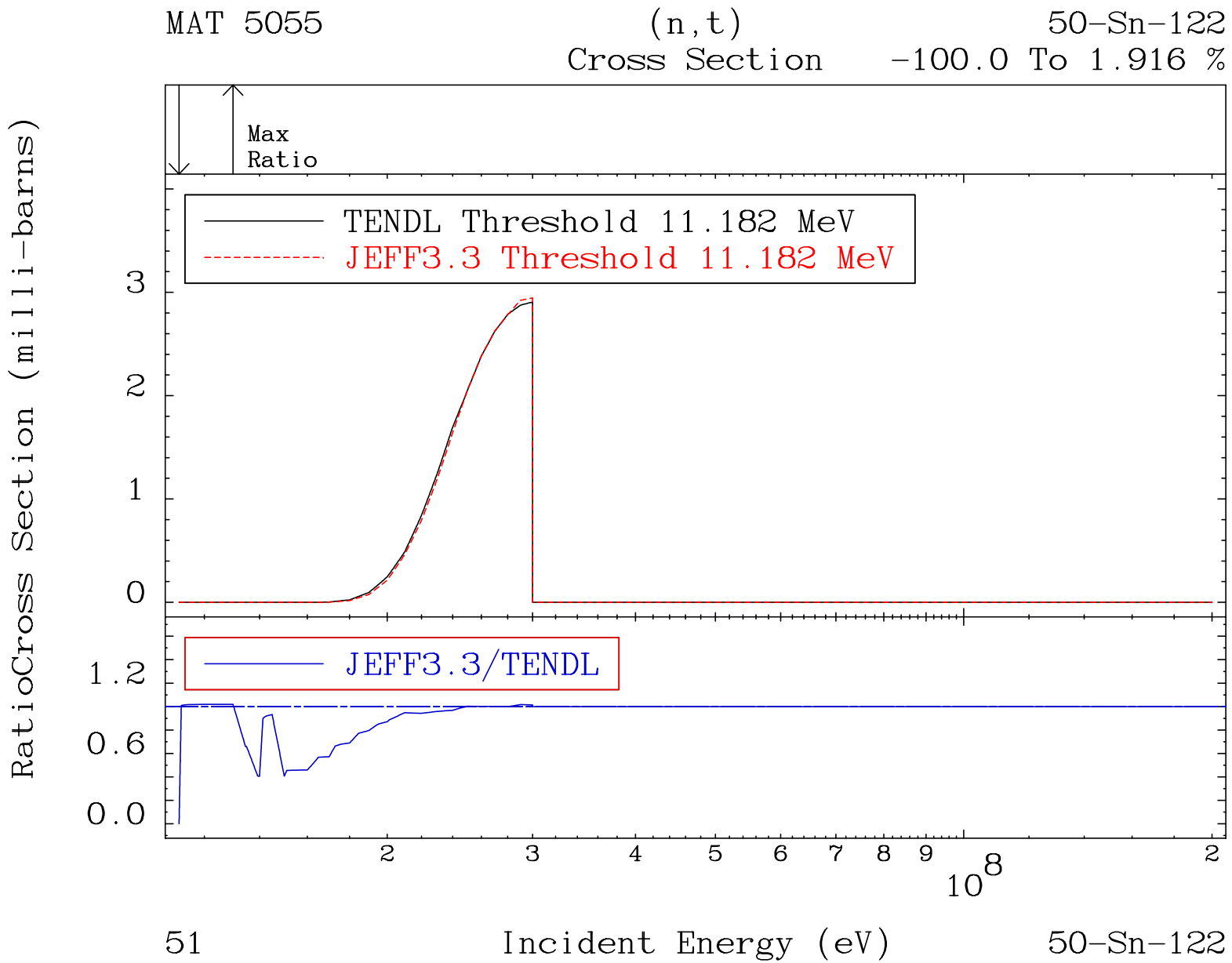

MAT 5055
MT= 80 (n,n') Level
50-Sn-122
Cross Section 0.000 To 85.68 %
Max Ratio
Min Ratio
TENDL Threshold 3.1077 MeV
JEFF3.3 Threshold 3.1077 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
2.0
1.6
1.2
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
46
50-Sn-122

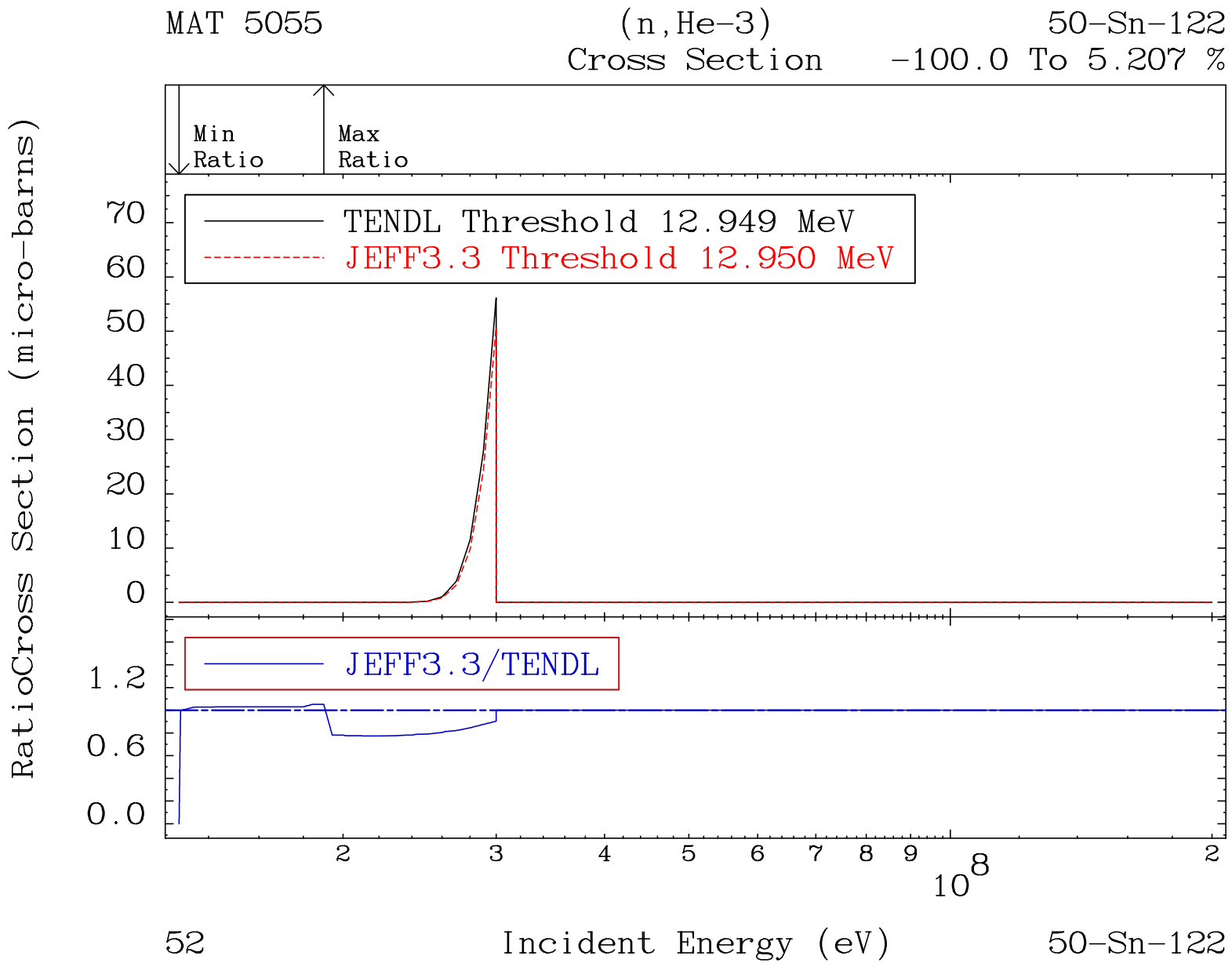

MAT 5055
(n,n') Continuum
Cross Section
50-Sn-122
-16.39 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 3.1077 MeV
JEFF3.3 Threshold 3.1077 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
1.0
0.9
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
47
50-Sn-122

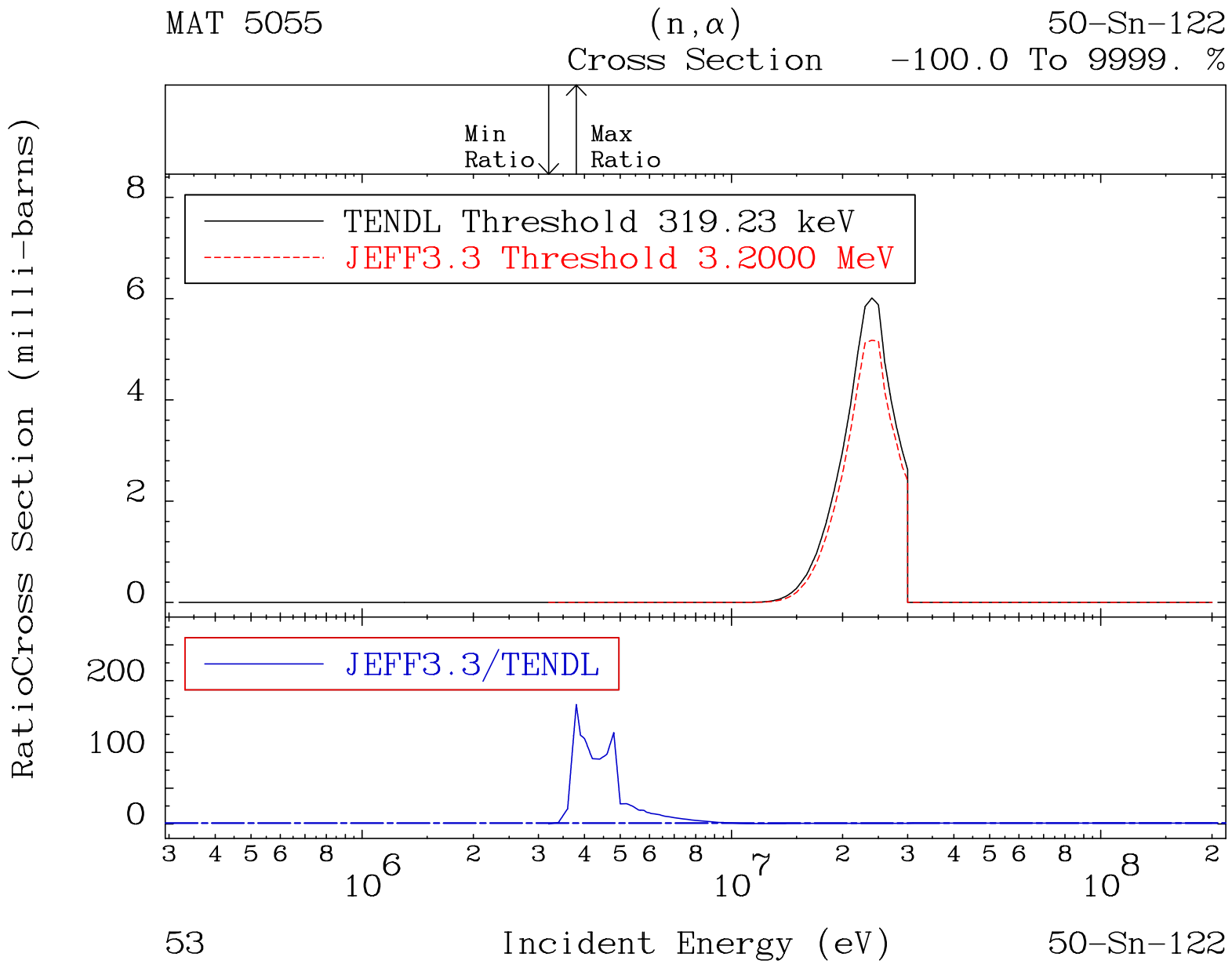

MAT 5055
(n,γ)
Cross Section
50-Sn-122
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
50-Sn-122

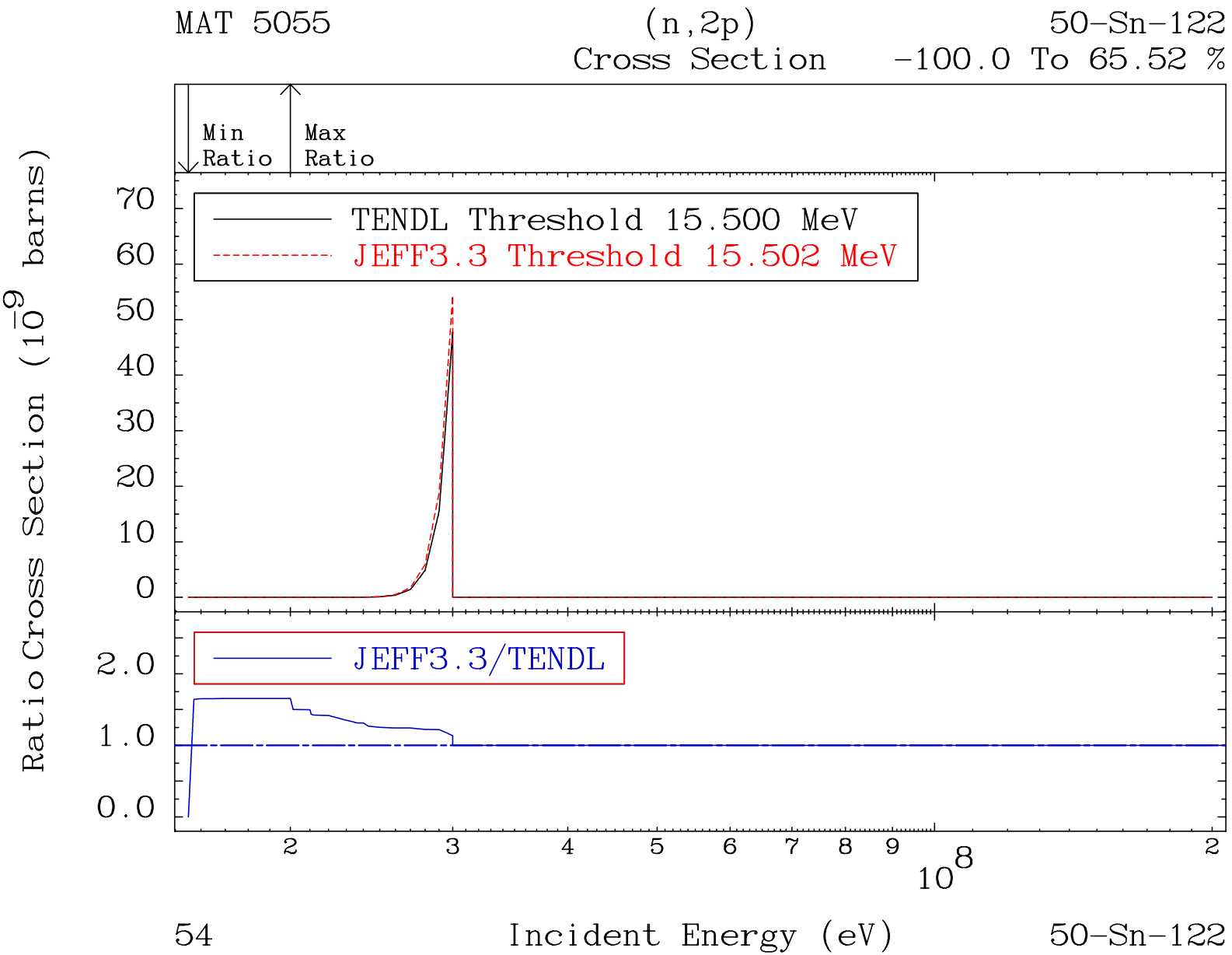

MAT 5055
(n,p)
50-Sn-122
Cross Section
-42.44 To 1.154 %
Max Ratio
Min Ratio
TENDL Threshold 5.6325 MeV
JEFF3.3 Threshold 5.6325 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
1.2
1.0
0.8
0.6
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
49
Incident Energy (eV)
50-Sn-122

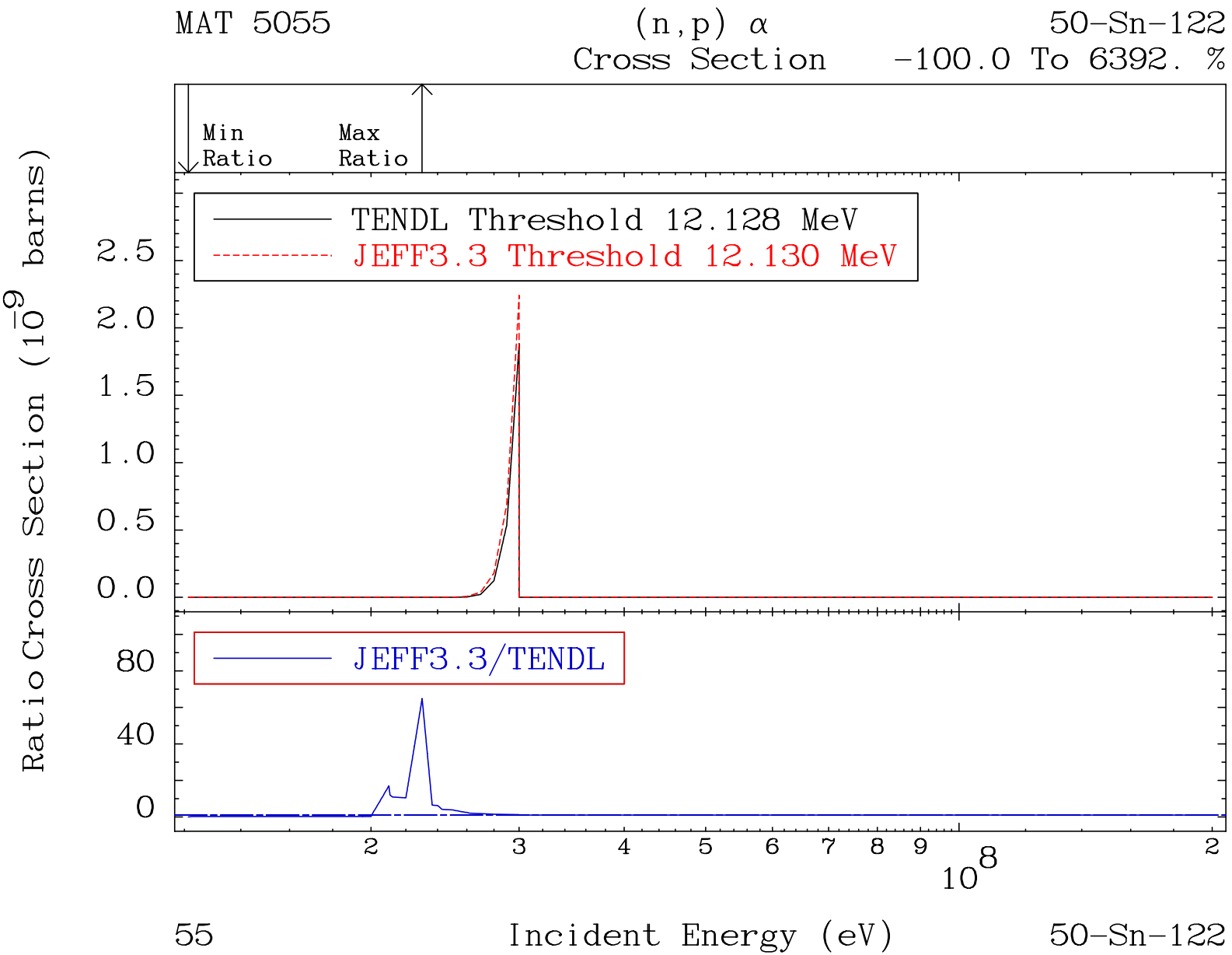

MAT 5055
(n,d)
50-Sn-122
Cross Section
-18.03 To 2.978 %
Min
Ratio
TENDL Threshold 9.2456 MeV
JEFF3.3 Threshold 9.2456 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
15
10
5
0
1.1
1.0
0.9
0.8
9
2
3
4
5
6
7
8
9
2
10^7
10^8
50
Incident Energy (eV)
50-Sn-122

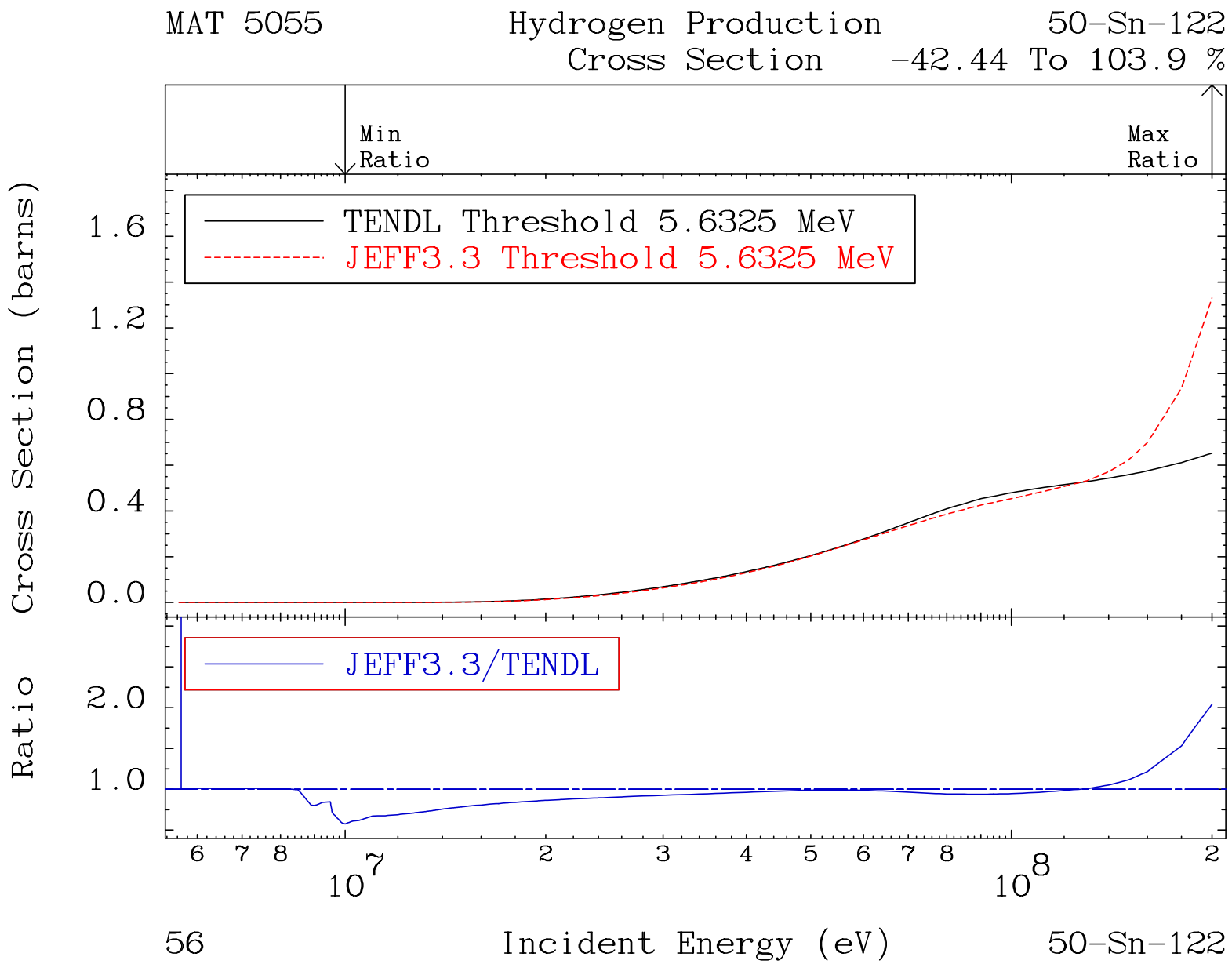

MAT 5055
(n,t)
Cross Section
50-Sn-122
-100.0 To 1.916 %
Max
Ratio
TENDL Threshold 11.182 MeV
JEFF3.3 Threshold 11.182 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
1
2
3
0.0
0.6
1.2
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
50-Sn-122

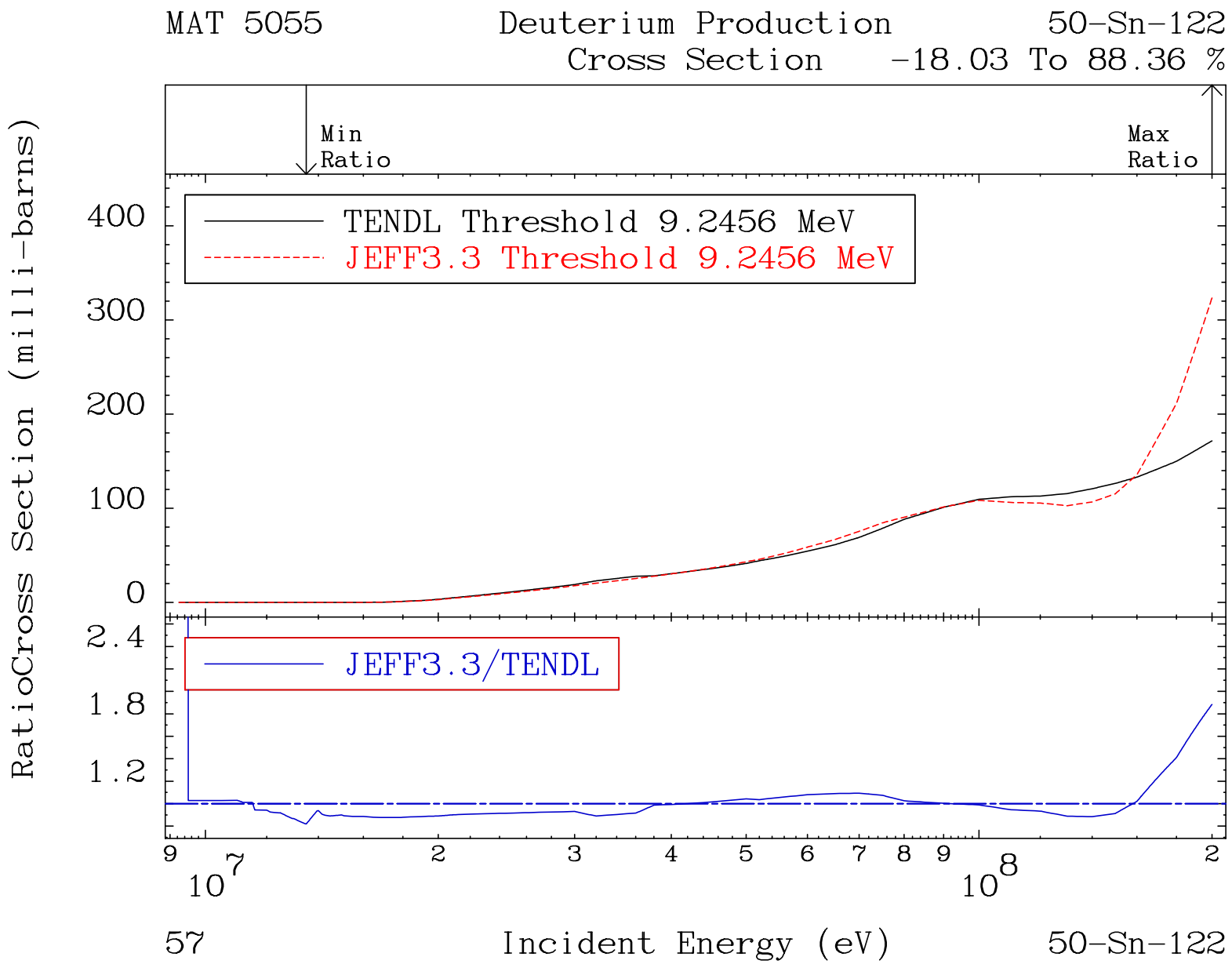

MAT 5055
(n,He-3)
Cross Section
50-Sn-122
-100.0 To 5.207 %
Min Ratio
Max Ratio
TENDL Threshold 12.949 MeV
JEFF3.3 Threshold 12.950 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
70
60
50
40
30
20
10
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
52
Incident Energy (eV)
50-Sn-122

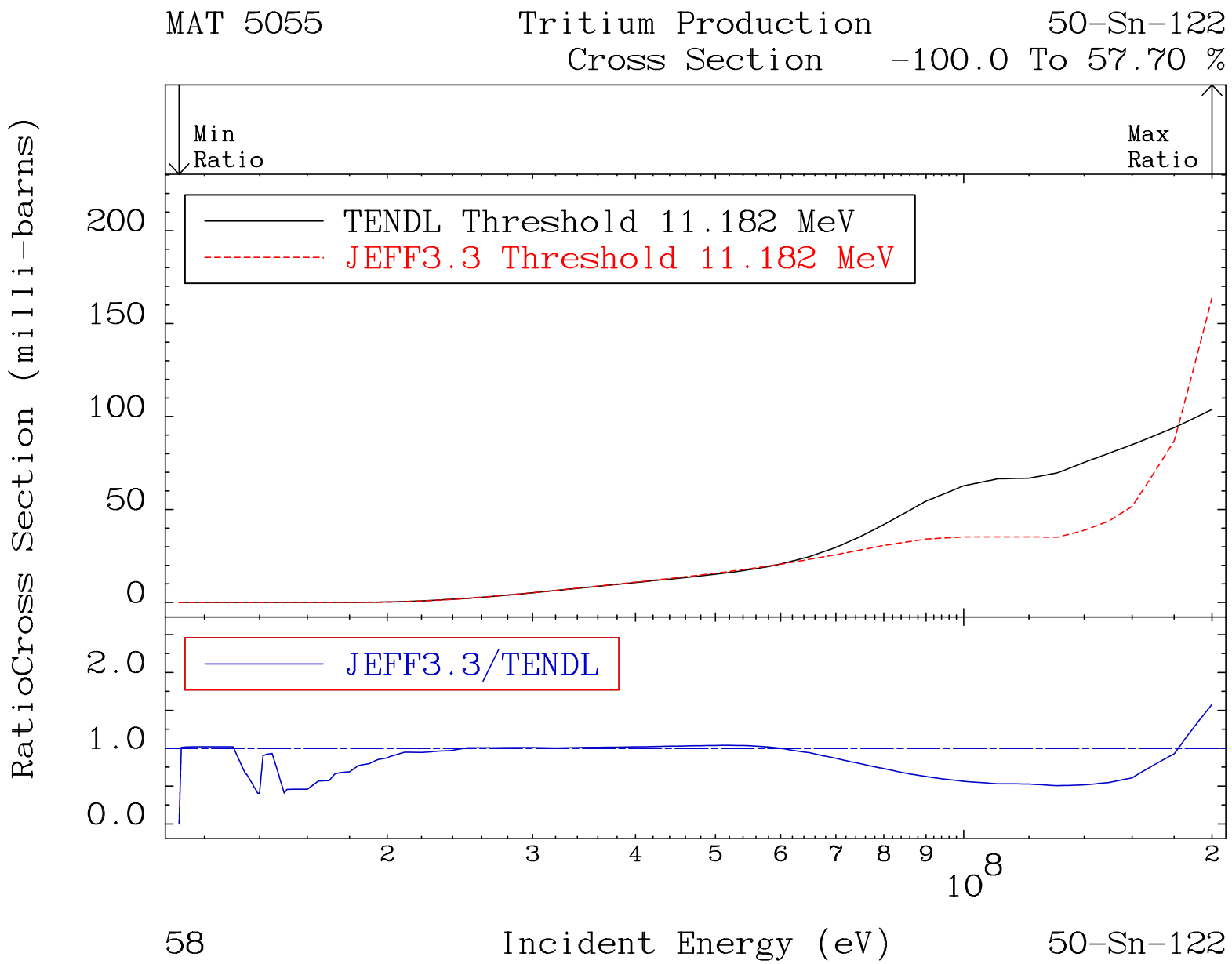

MAT 5055
(n,α)
50-Sn-122
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 319.23 keV
JEFF3.3 Threshold 3.2000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
53
50-Sn-122

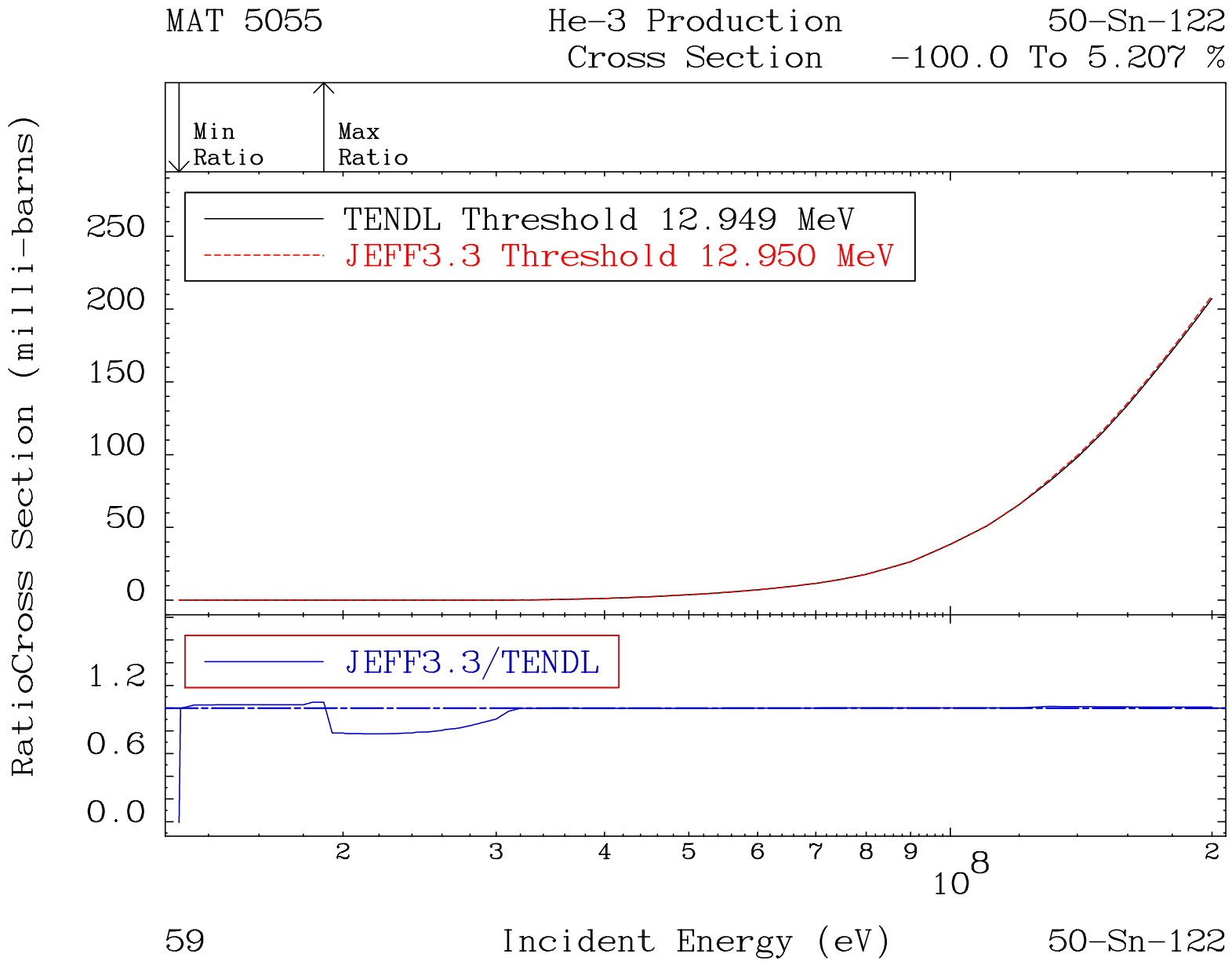

MAT 5055
(n,2p)
50-Sn-122
Cross Section
-100.0 To 65.52 %
Min Ratio
Max Ratio
TENDL Threshold 15.500 MeV
JEFF3.3 Threshold 15.502 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
70
60
50
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
50-Sn-122

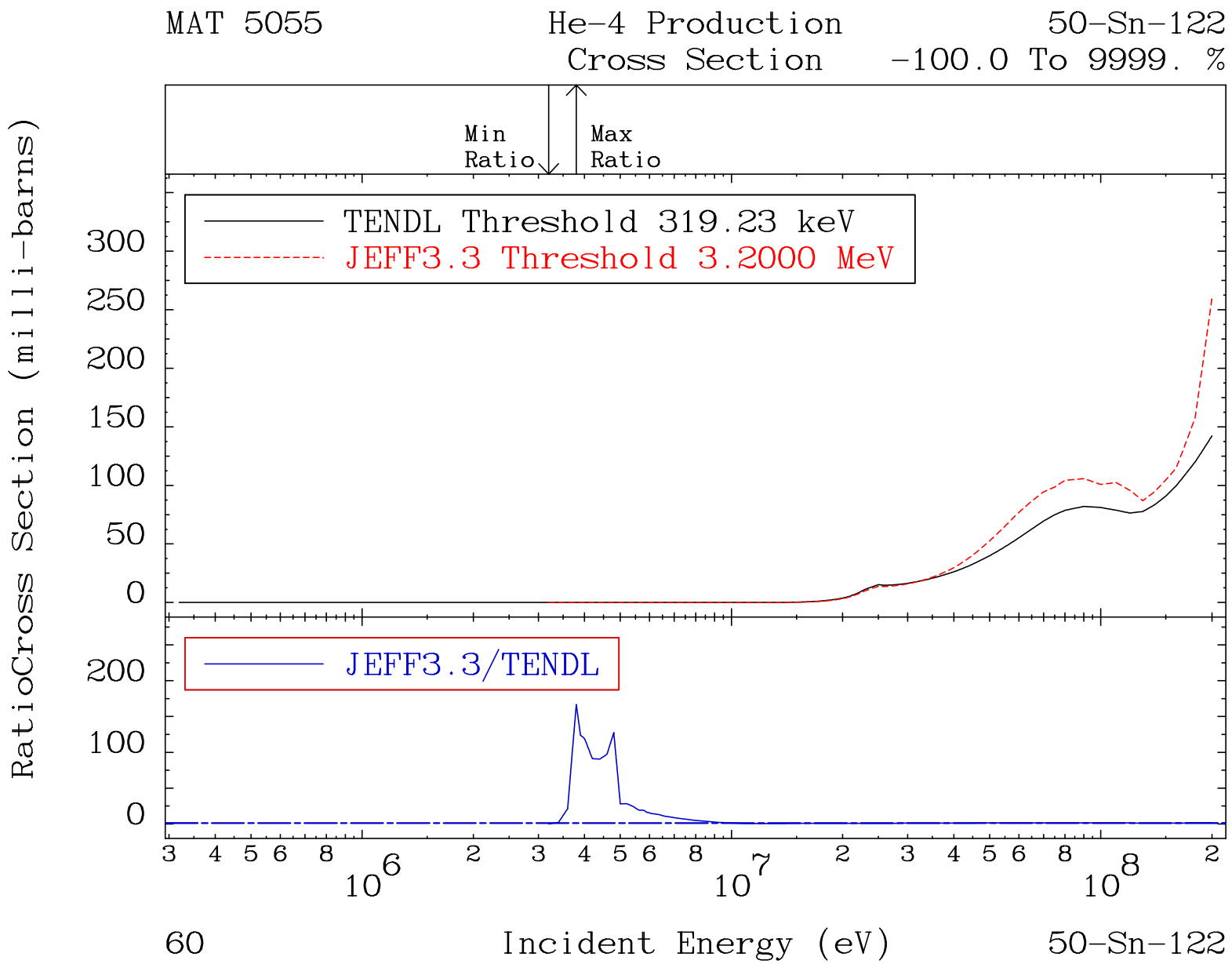

MAT 5055
(n,p) α
50-Sn-122
Cross Section
-100.0 To 6392. %
Min Ratio
Max Ratio
TENDL Threshold 12.128 MeV
JEFF3.3 Threshold 12.130 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
2.5
2.0
1.5
1.0
0.5
0.0
80
40
0
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
50-Sn-122

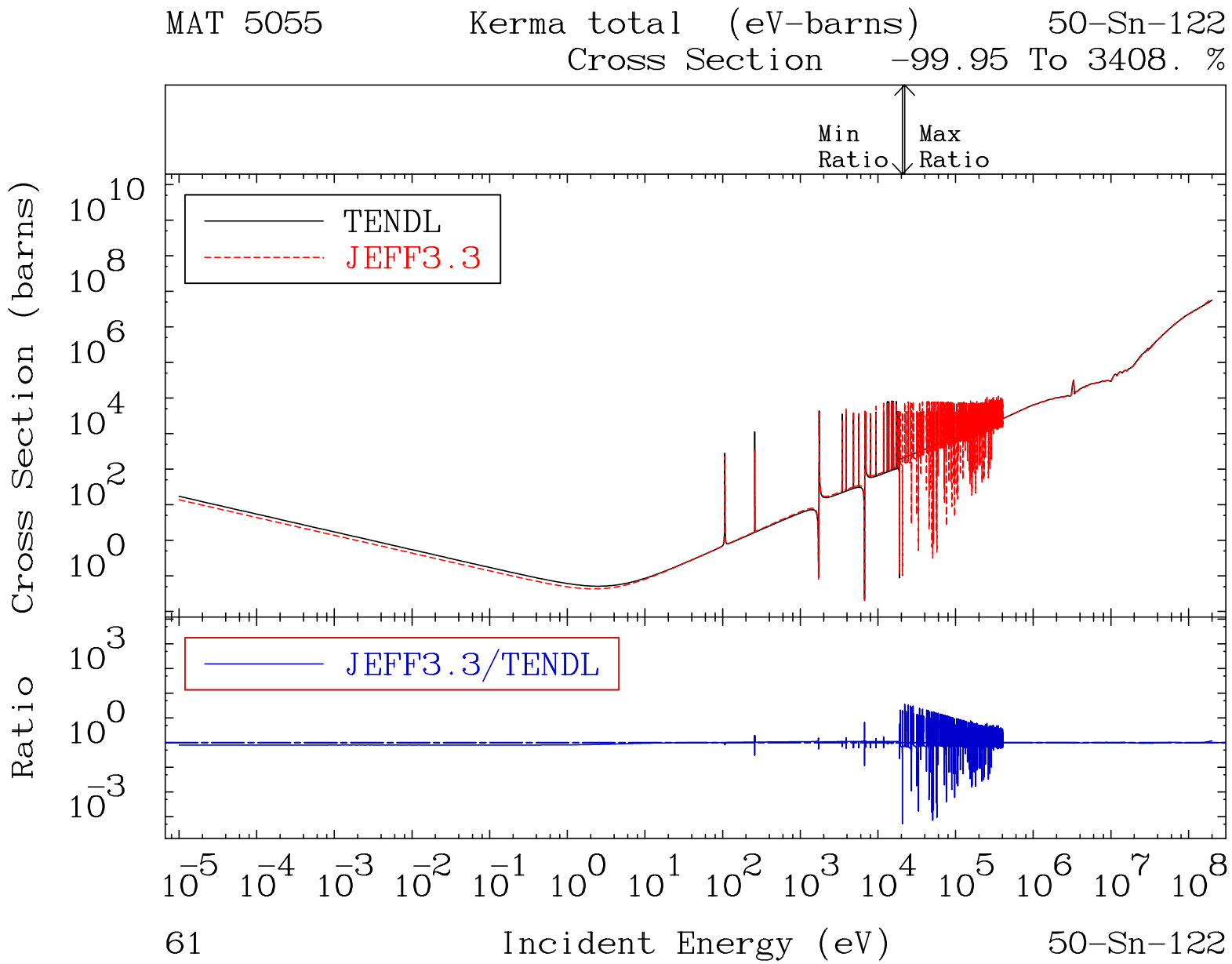

MAT 5055
Hydrogen Production
50-Sn-122
Cross Section
-42.44 To 103.9 %
Min Ratio
Max Ratio
TENDL Threshold 5.6325 MeV
JEFF3.3 Threshold 5.6325 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
2.0
1.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
56
Incident Energy (eV)
50-Sn-122

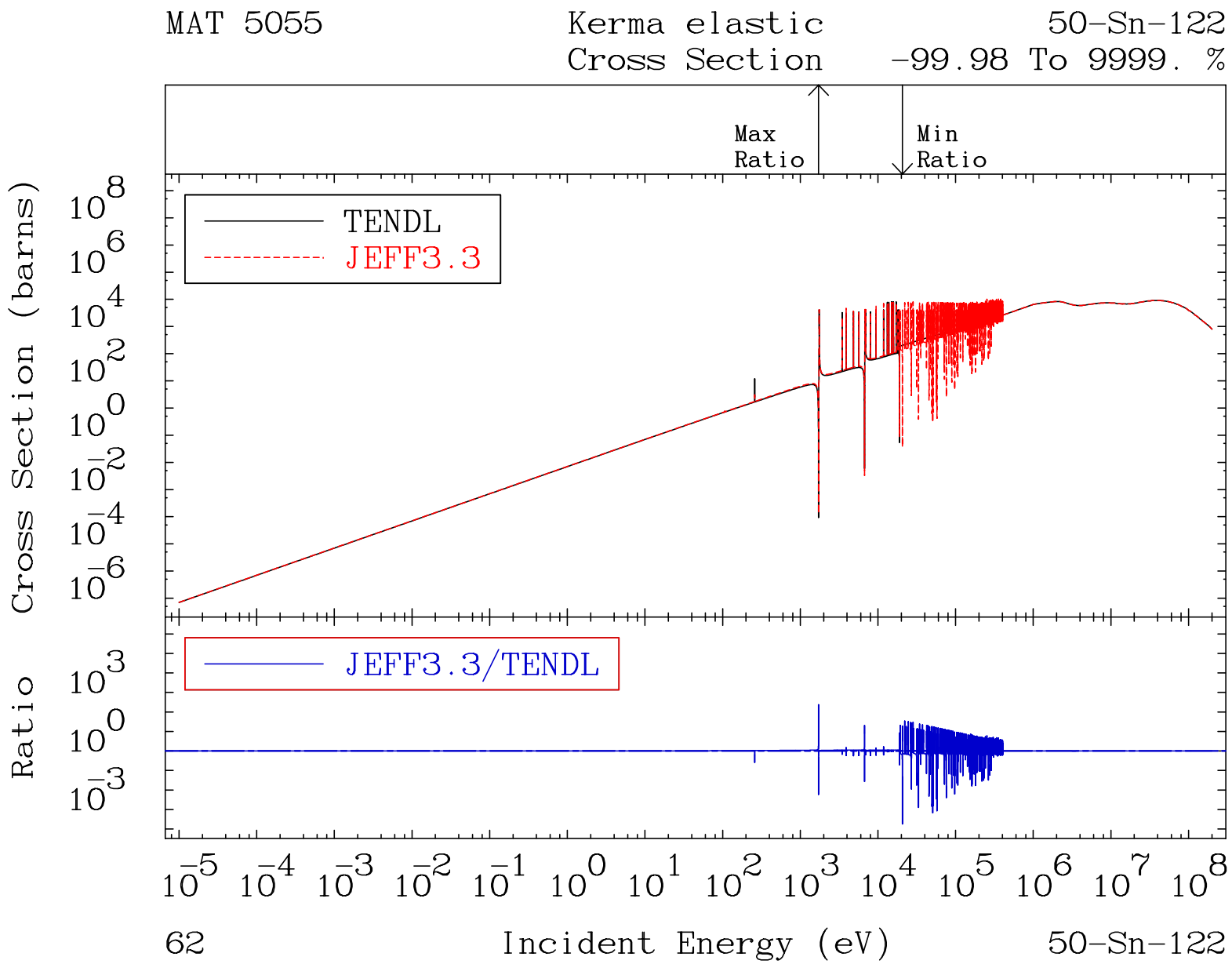

MAT 5055
Deuterium Production
50-Sn-122
Cross Section
-18.03 To 88.36 %
Min Ratio
Max Ratio
TENDL Threshold 9.2456 MeV
JEFF3.3 Threshold 9.2456 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
2.4
1.8
1.2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
50-Sn-122

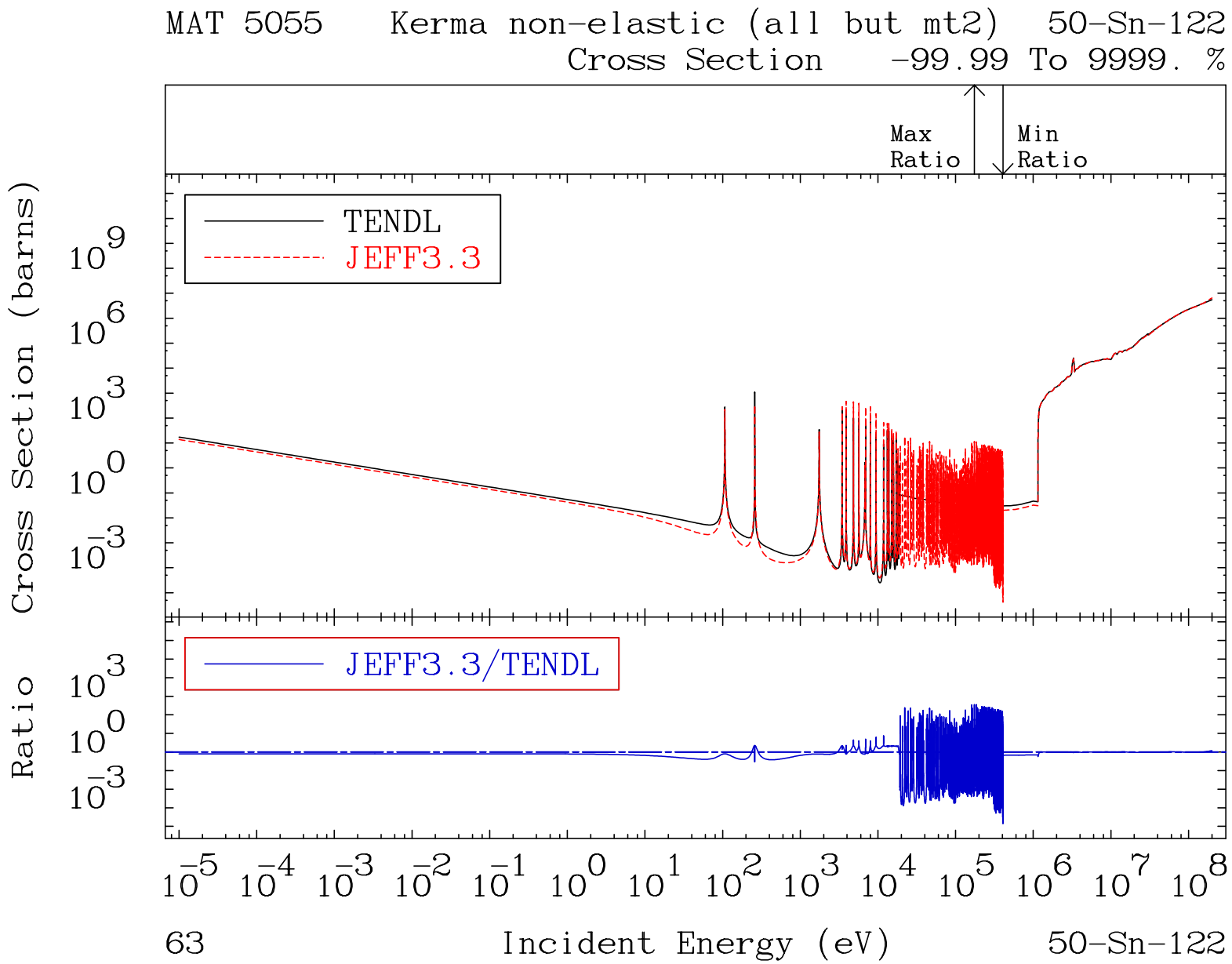

MAT 5055
Tritium Production
50-Sn-122
Cross Section
-100.0 To 57.70 %
Min Ratio
Max Ratio
TENDL Threshold 11.182 MeV
JEFF3.3 Threshold 11.182 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
50-Sn-122

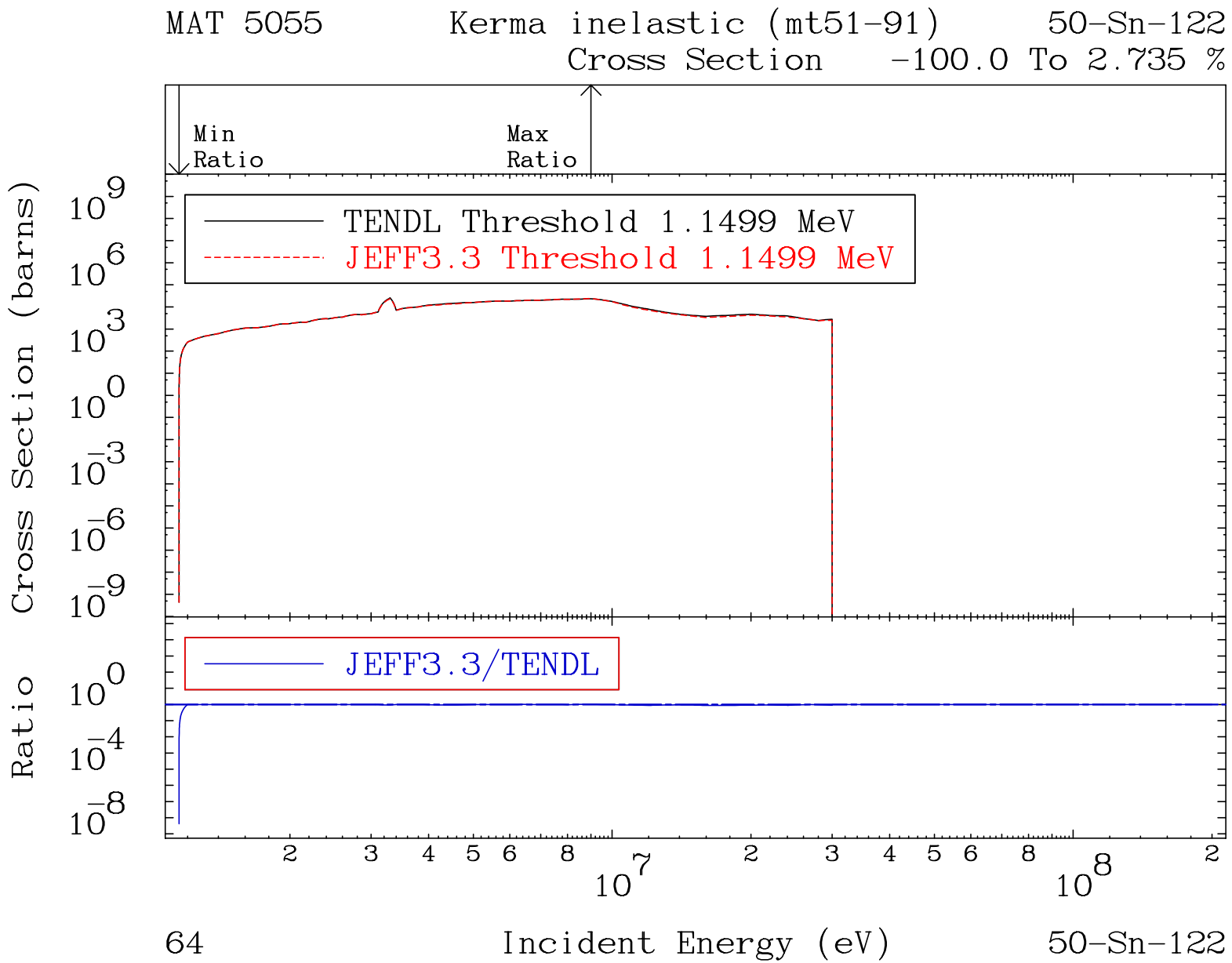

MAT 5055
He-3 Production
Cross Section
50-Sn-122
-100.0 To 5.207 %
Min Ratio
Max Ratio
TENDL Threshold 12.949 MeV
JEFF3.3 Threshold 12.950 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
50-Sn-122

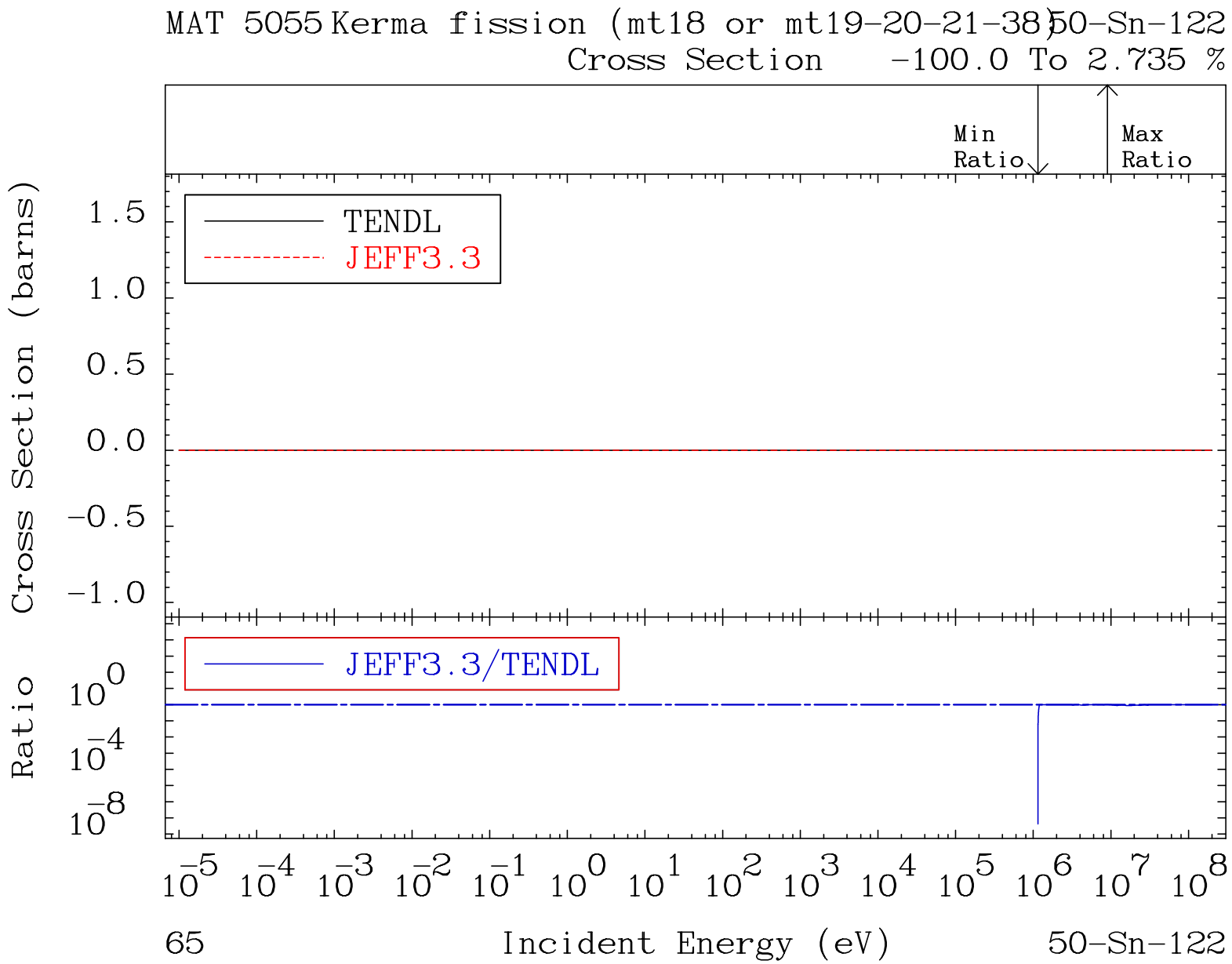

MAT 5055
He-4 Production
Cross Section
50-Sn-122
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 319.23 keV
JEFF3.3 Threshold 3.2000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
200
100
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
60
Incident Energy (eV)
50-Sn-122

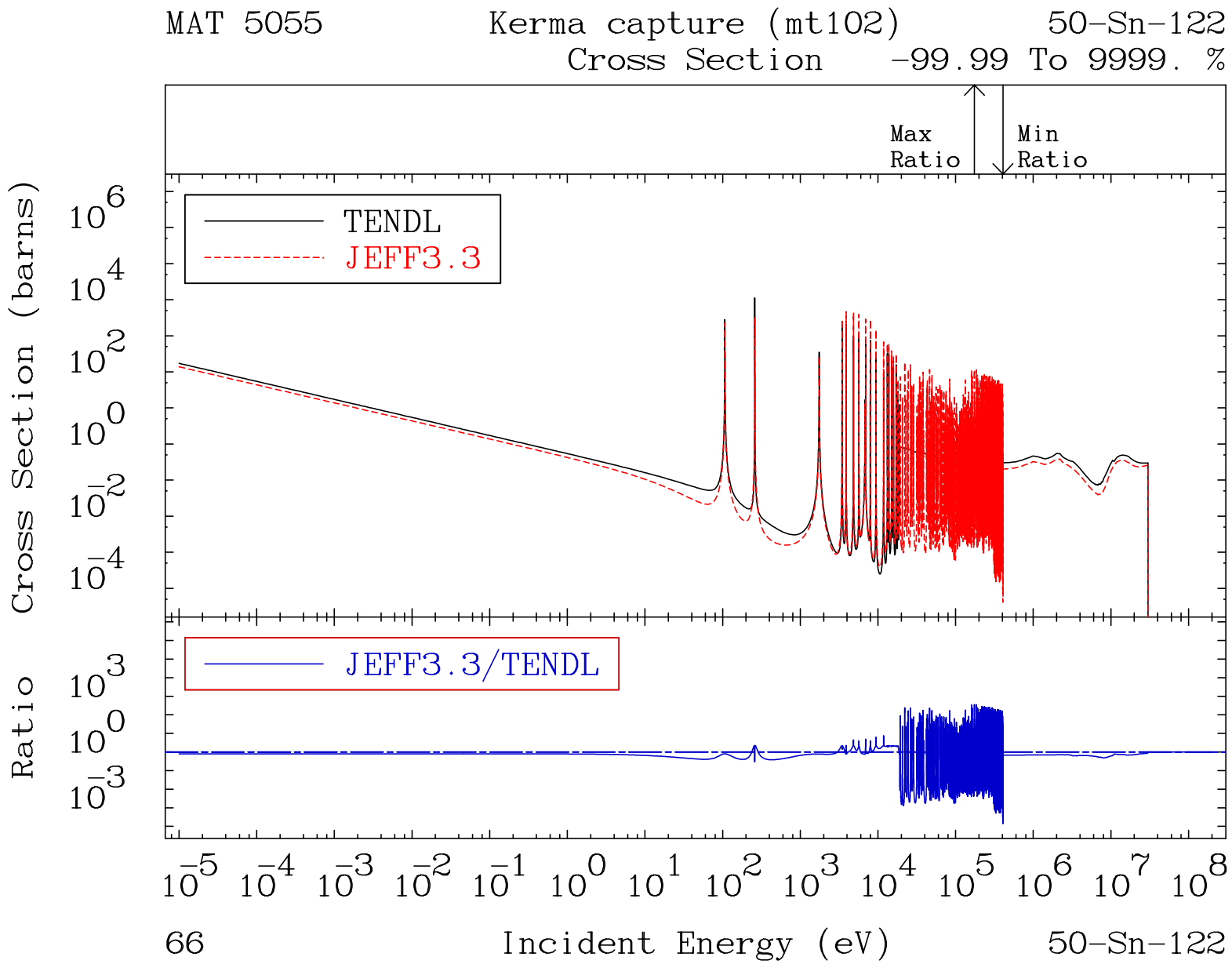

MAT 5055
Kerma total (eV-barns)
50-Sn-122
Cross Section -99.95 To 3408. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
50-Sn-122

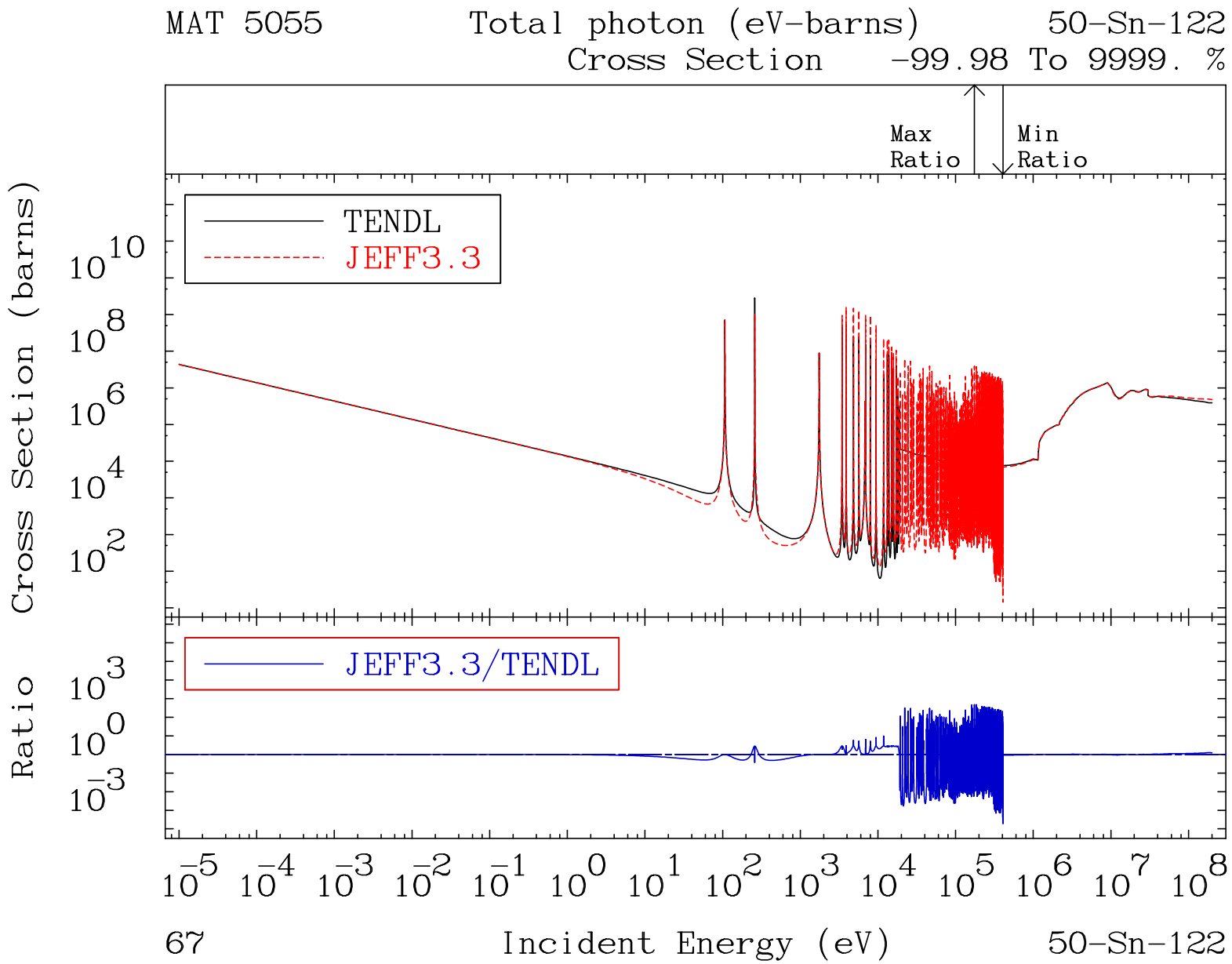

MAT 5055
Kerma elastic
Cross Section
50-Sn-122
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
50-Sn-122

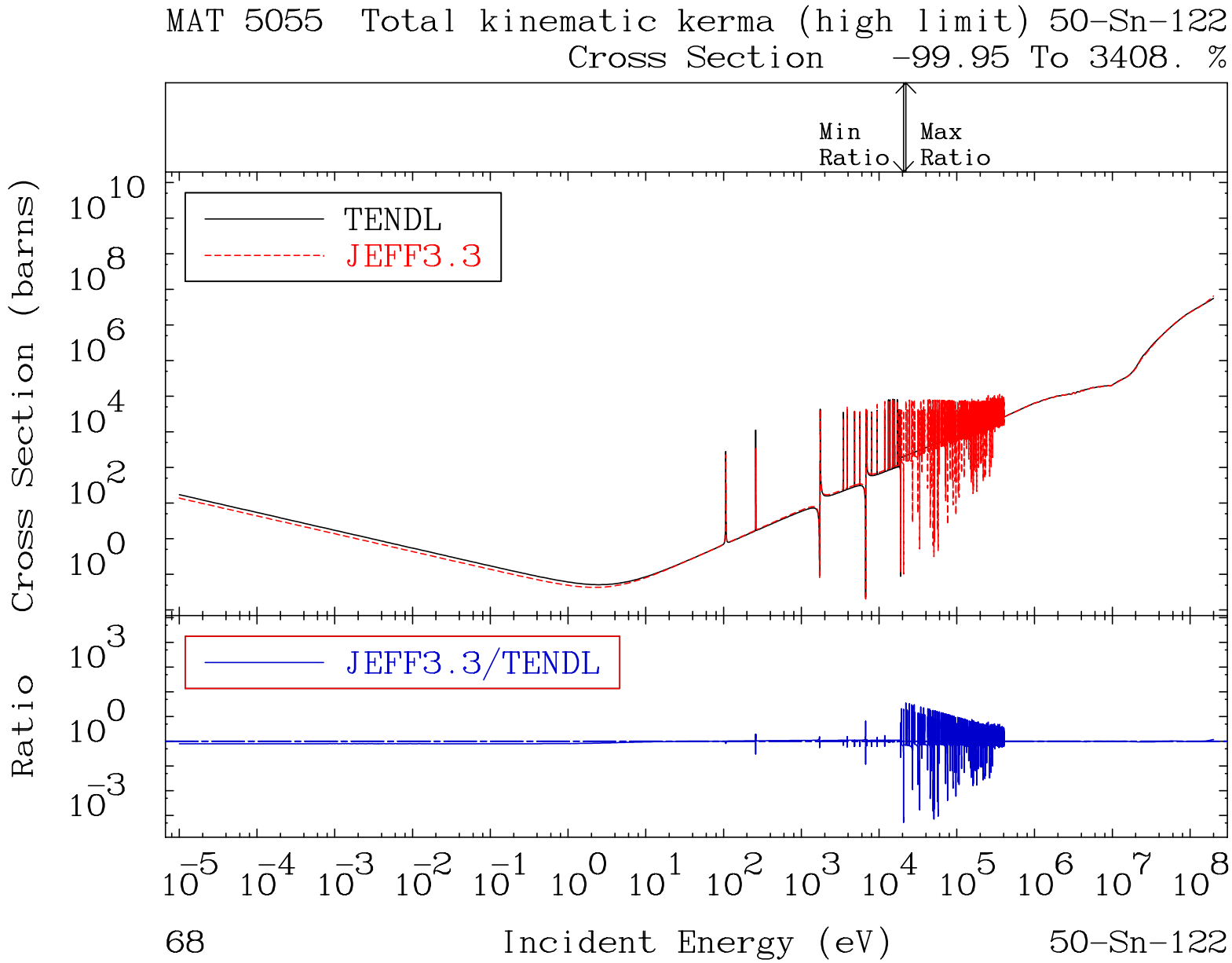

MAT 5055 Kerma non-elastic (all but mt2) 50-Sn-122
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
50-Sn-122

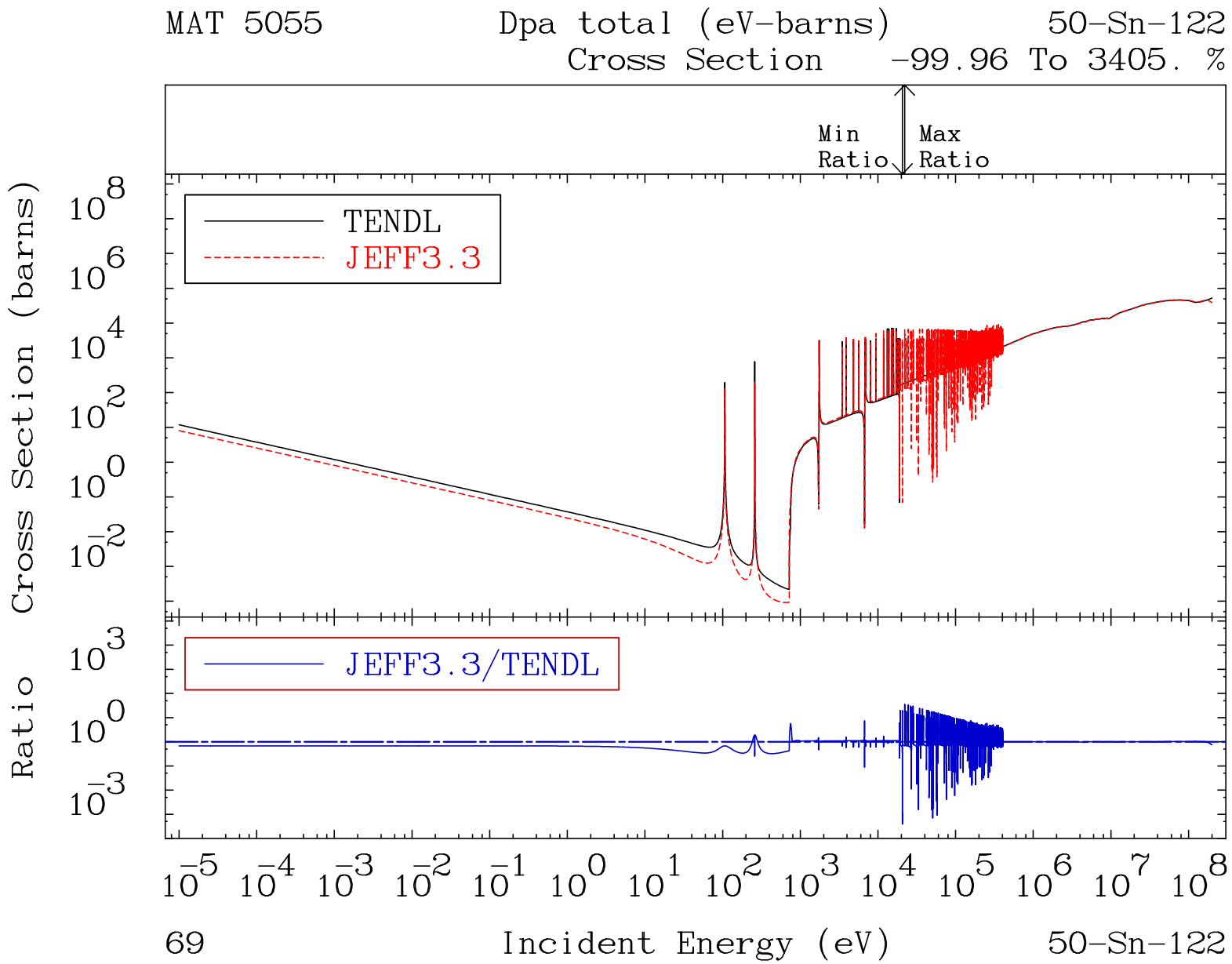

MAT 5055
Kerma inelastic (mt51-91)
50-Sn-122
Cross Section -100.0 To 2.735 %
Min Ratio
Max Ratio
TENDL Threshold 1.1499 MeV
JEFF3.3 Threshold 1.1499 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
50-Sn-122

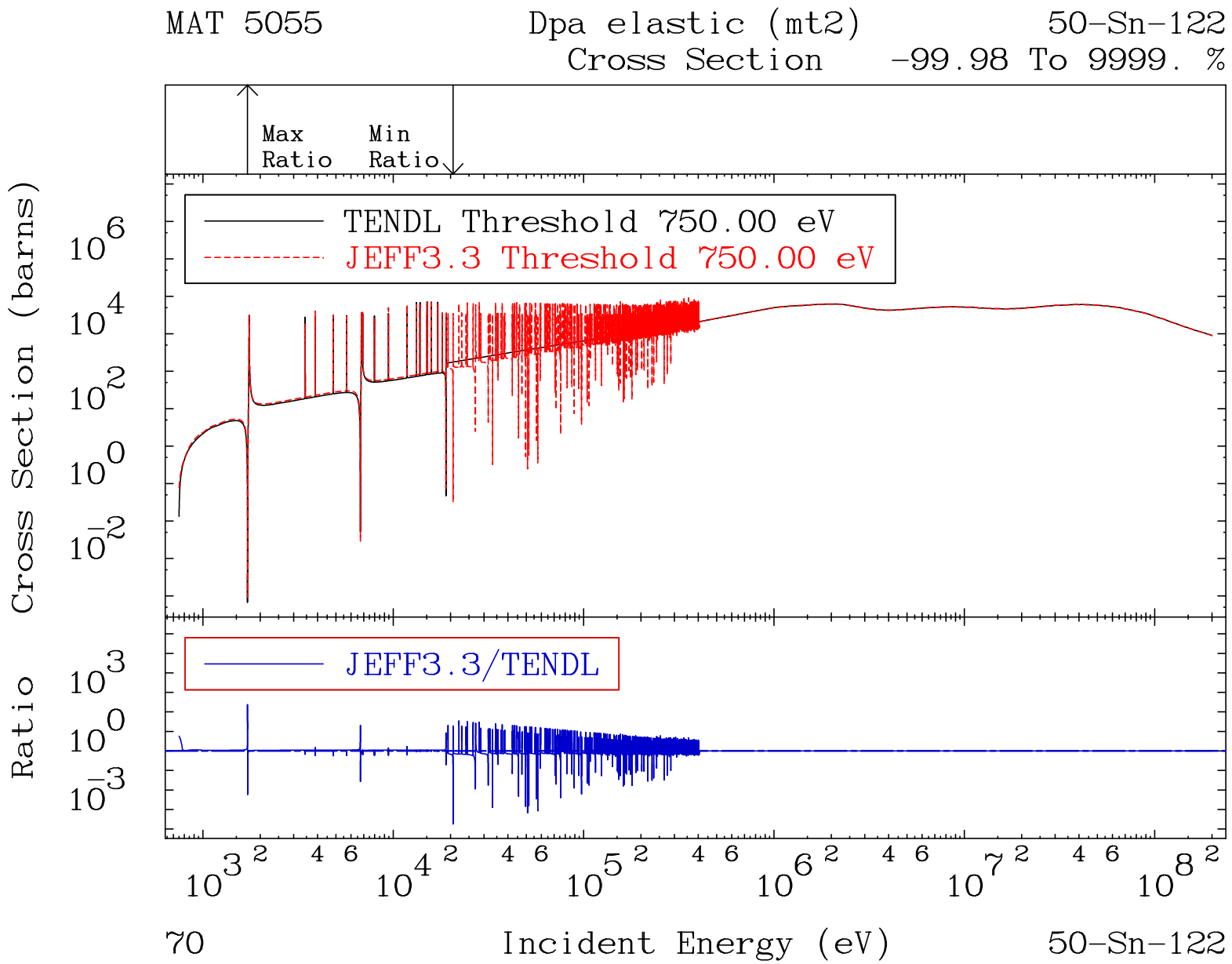

MAT 5055 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-122
Cross Section -100.0 To 2.735 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{0}
10^{-4}
10^{-8}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
65
Incident Energy (eV)
50-Sn-122

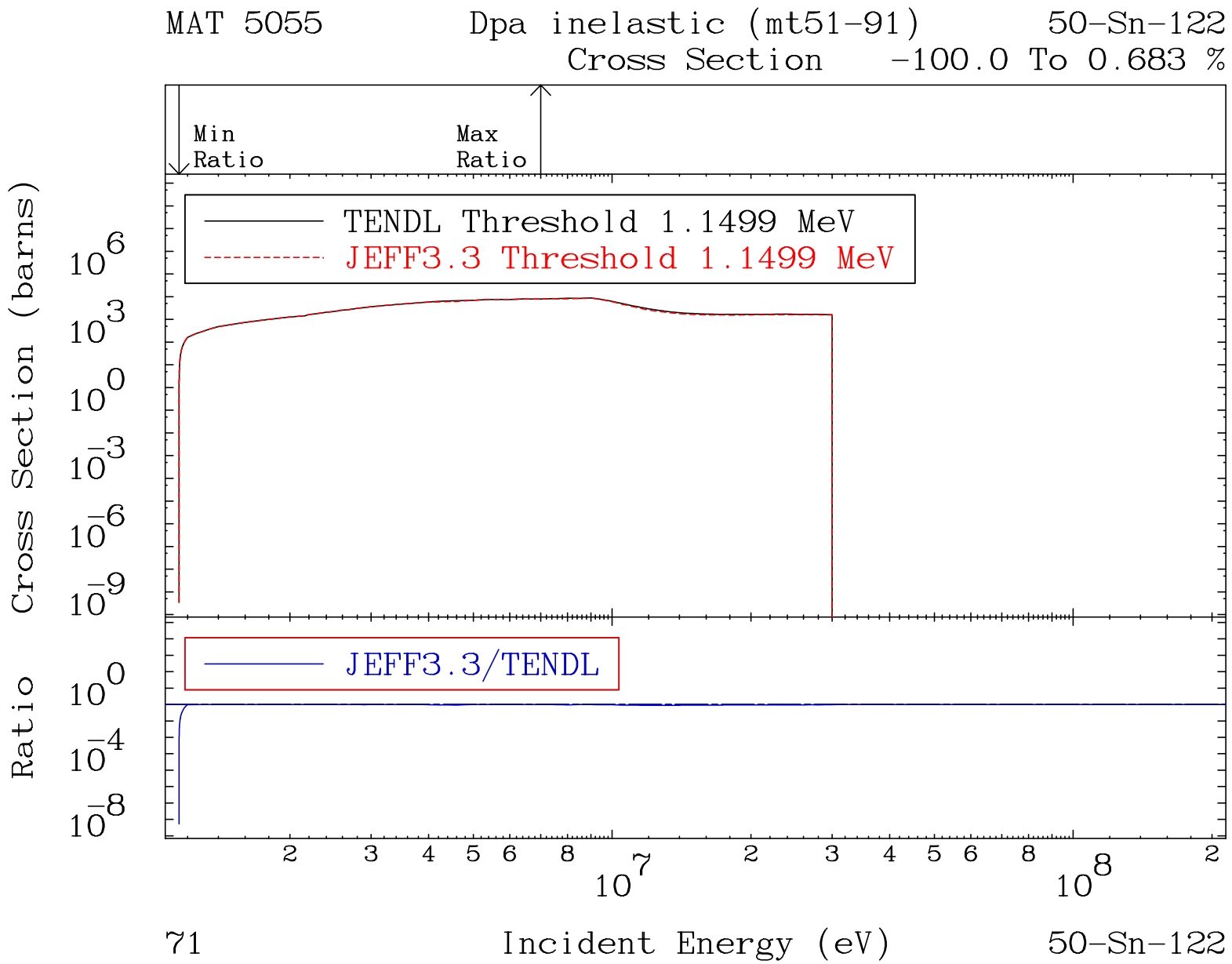

MAT 5055
Kerma capture (mt102)
50-Sn-122
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
50-Sn-122

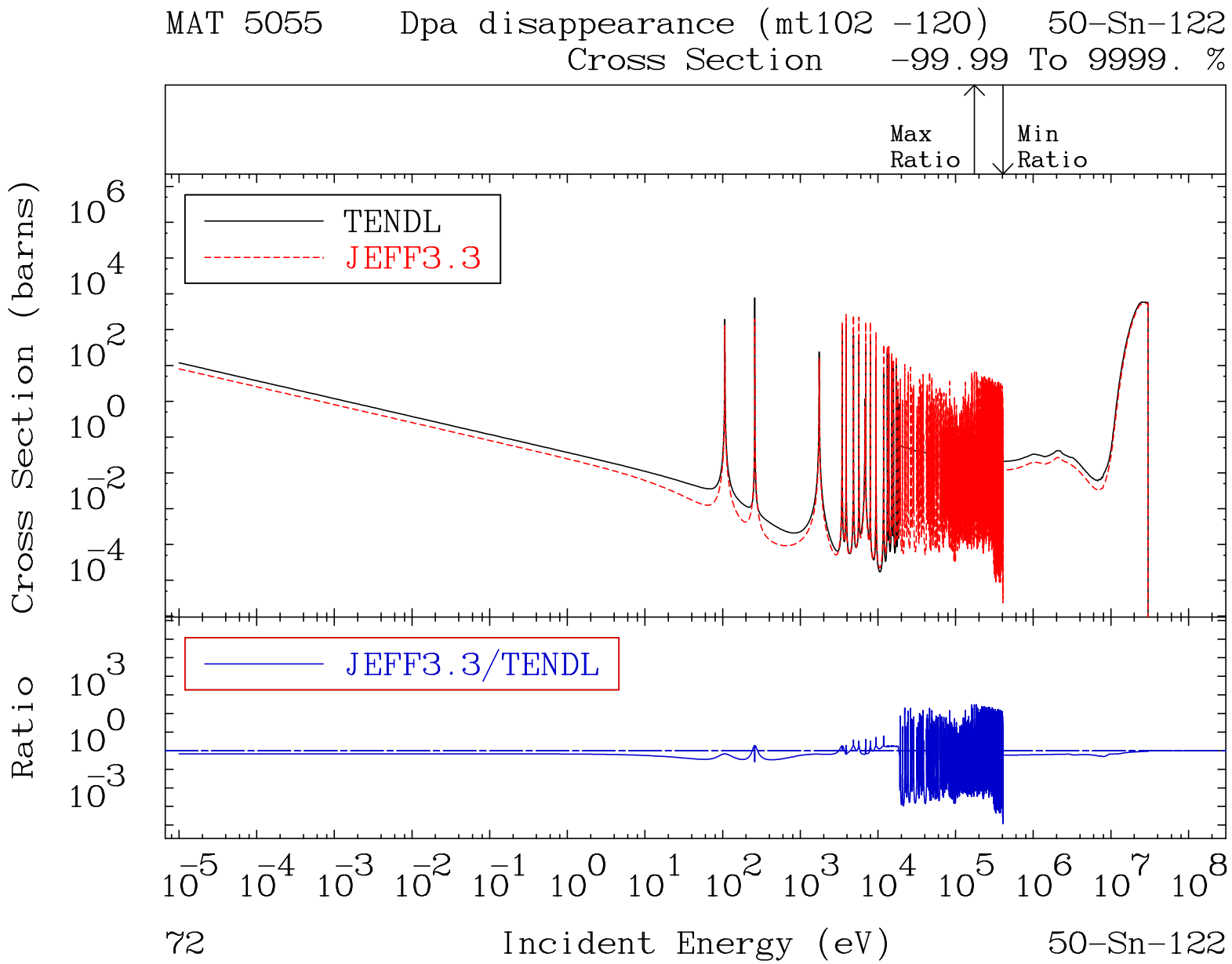

MAT 5055
Total photon (eV-barns)
50-Sn-122
Cross Section -99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
50-Sn-122

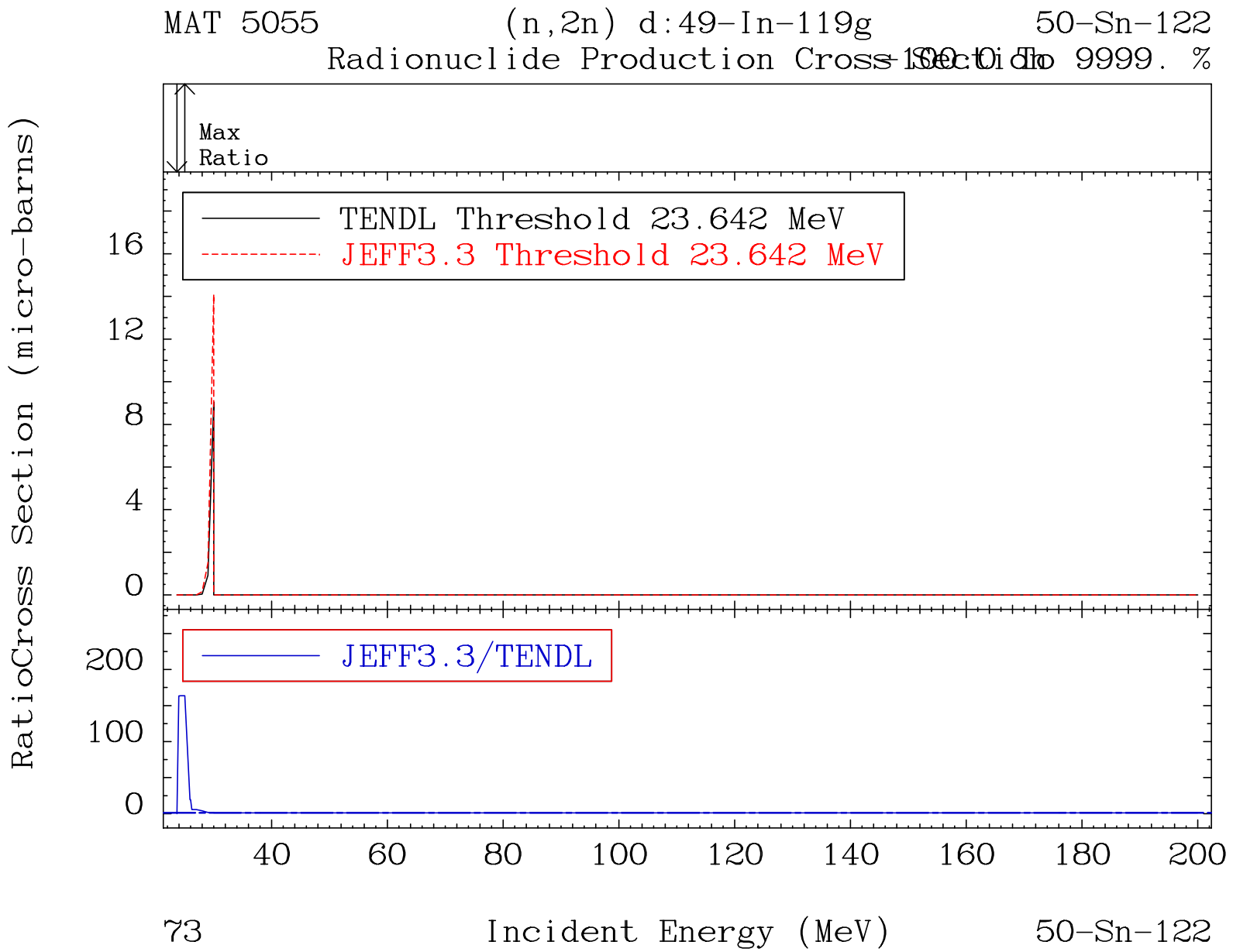

MAT 5055 Total kinematic kerma (high limit) 50-Sn-122
Cross Section -99.95 To 3408. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
50-Sn-122

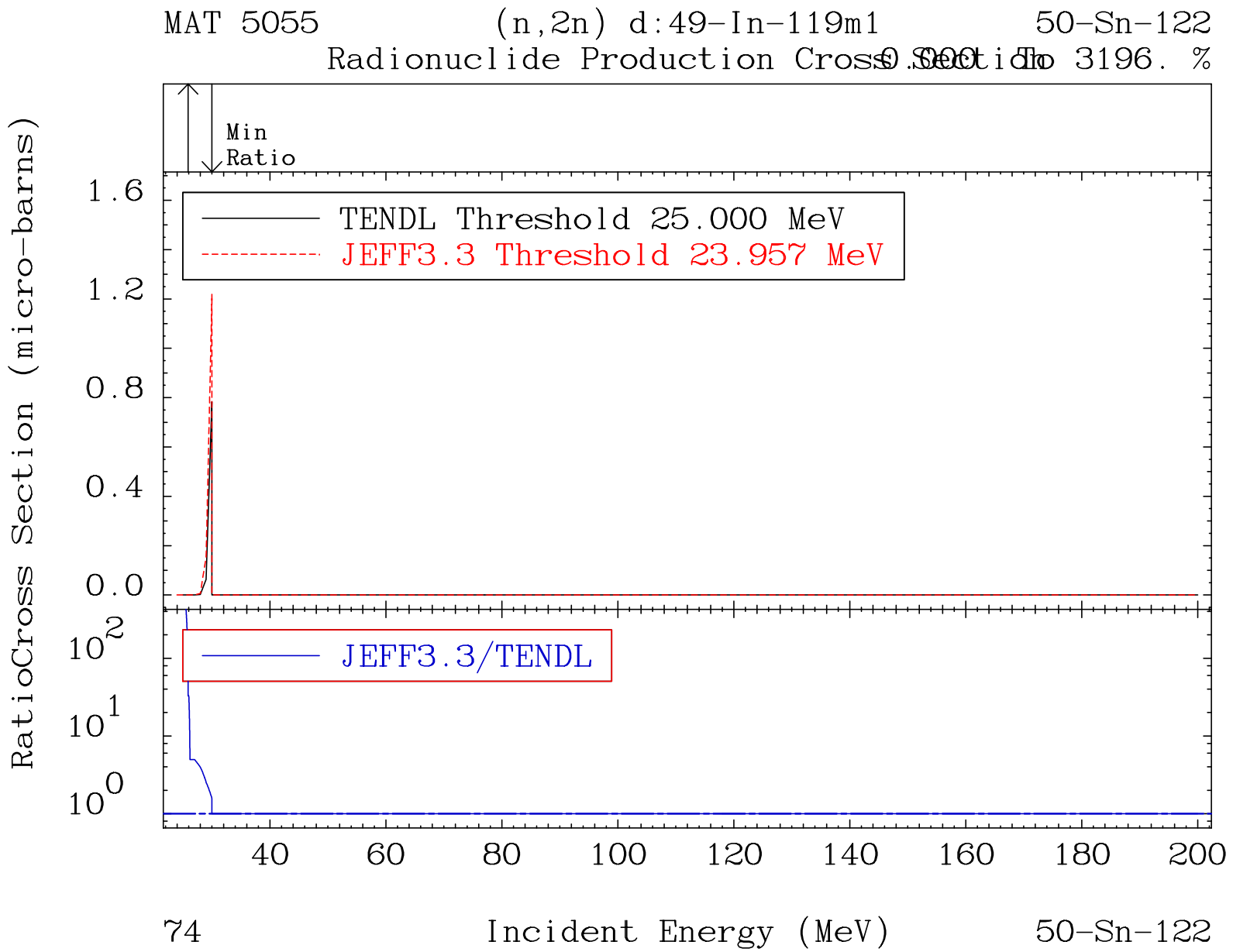

MAT 5055
Dpa total (eV-barns)
50-Sn-122
Cross Section -99.96 To 3405. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
69
50-Sn-122

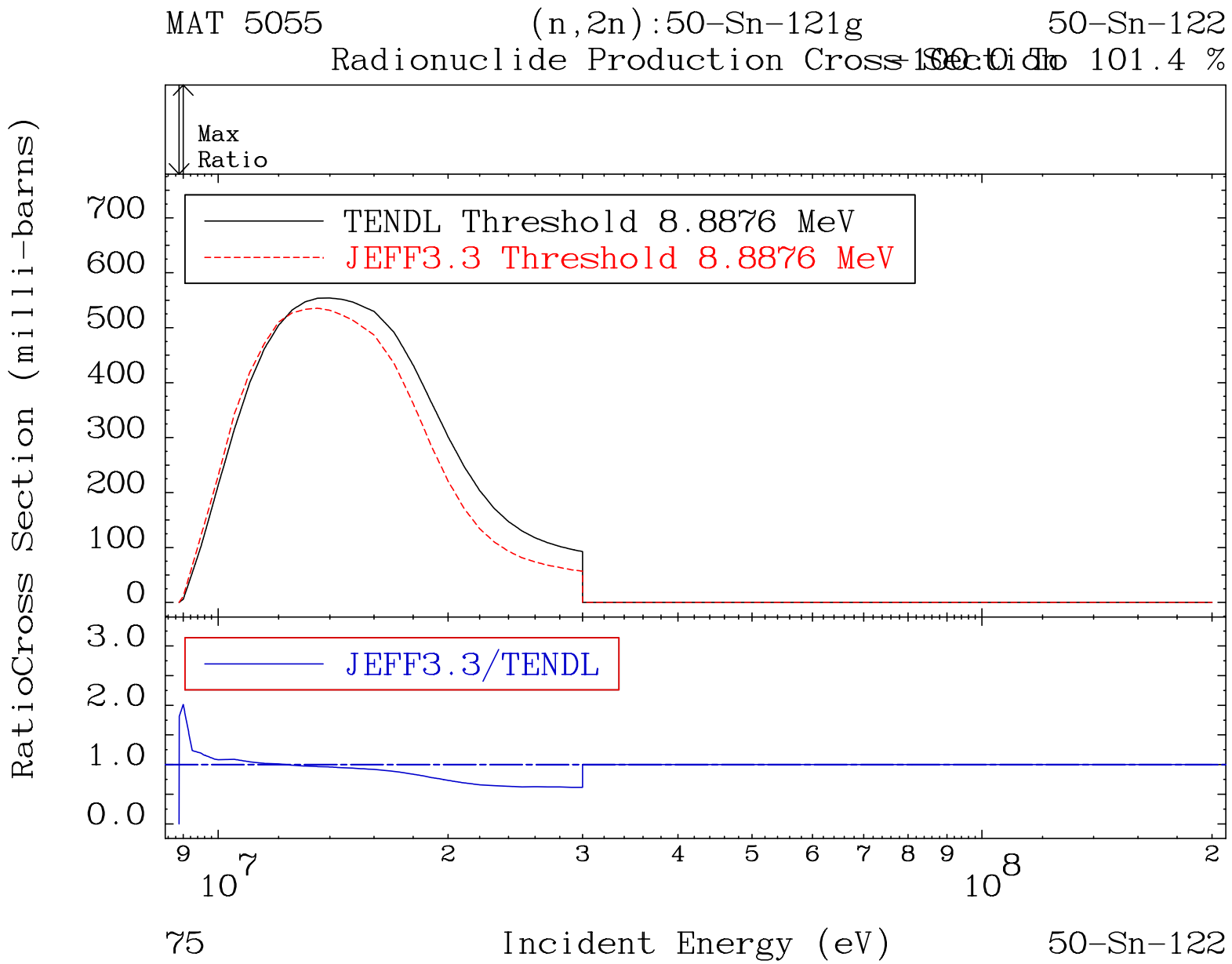

MAT 5055
Dpa elastic (mt2)
Cross Section
50-Sn-122
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 750.00 eV
JEFF3.3 Threshold 750.00 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
70
50-Sn-122

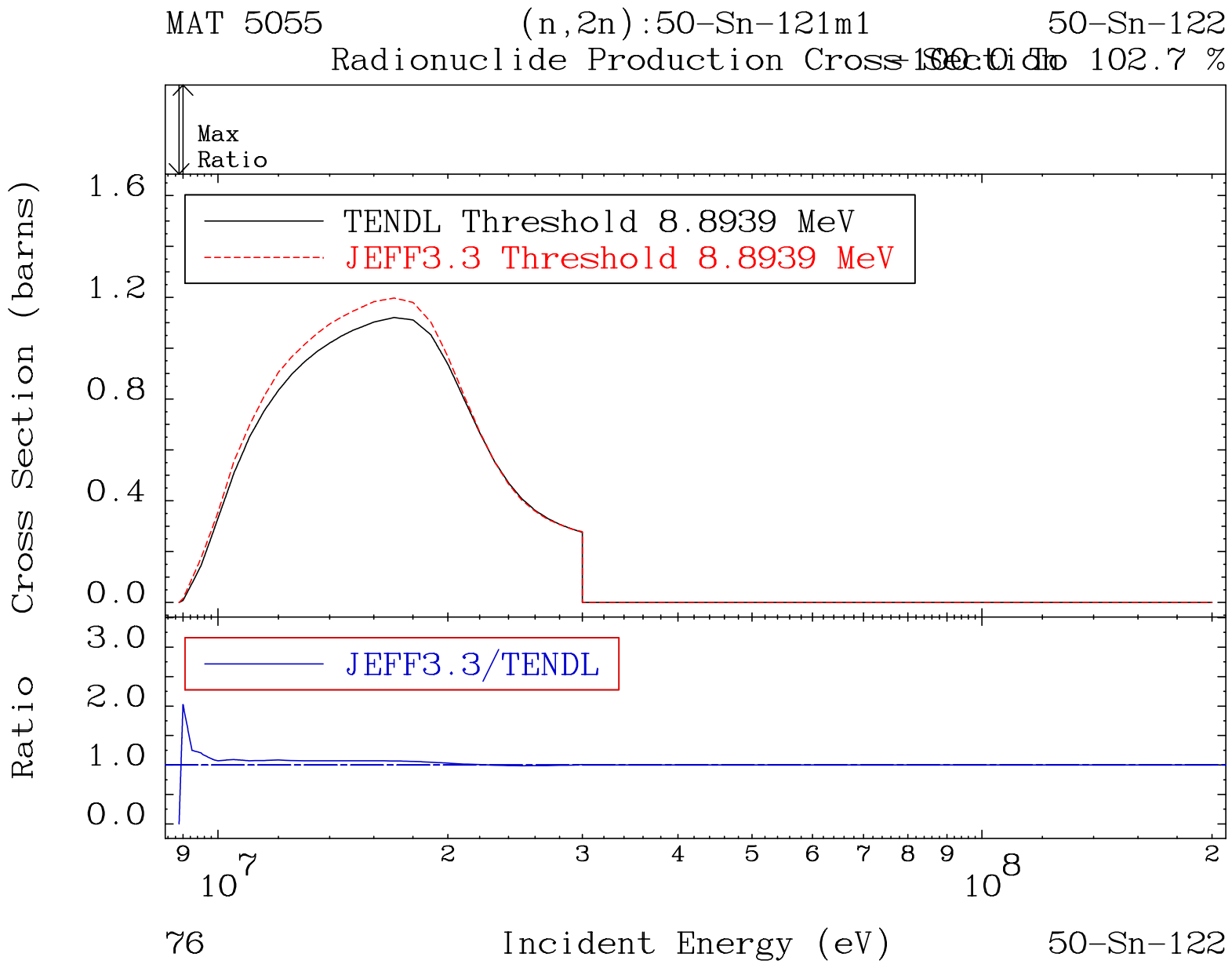

MAT 5055
Dpa inelastic (mt51-91)
50-Sn-122
Cross Section -100.0 To 0.683 %
Min Ratio
Max Ratio
TENDL Threshold 1.1499 MeV
JEFF3.3 Threshold 1.1499 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
71
50-Sn-122

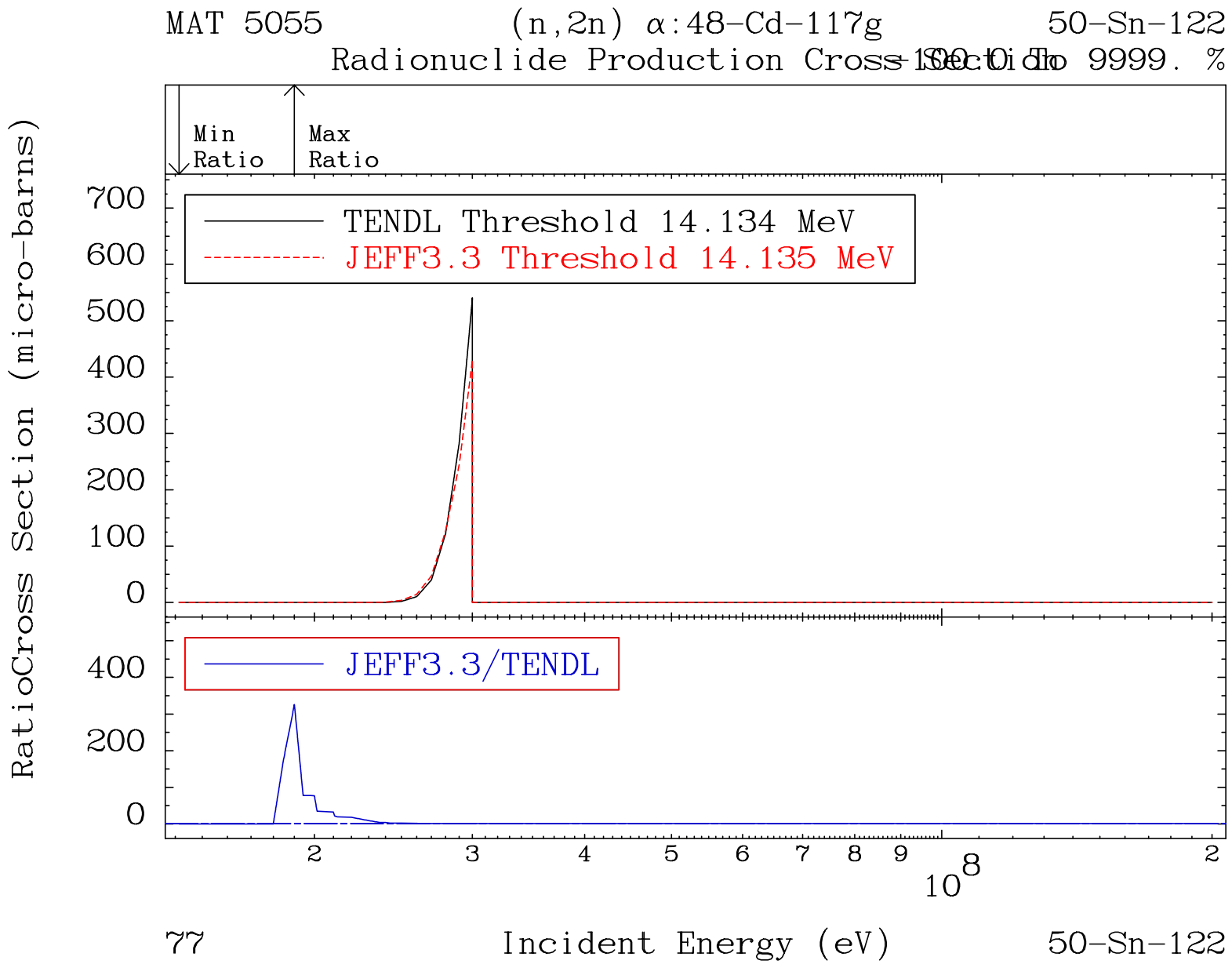

MAT 5055 Dpa disappearance (mt102 -120) 50-Sn-122
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
72
50-Sn-122

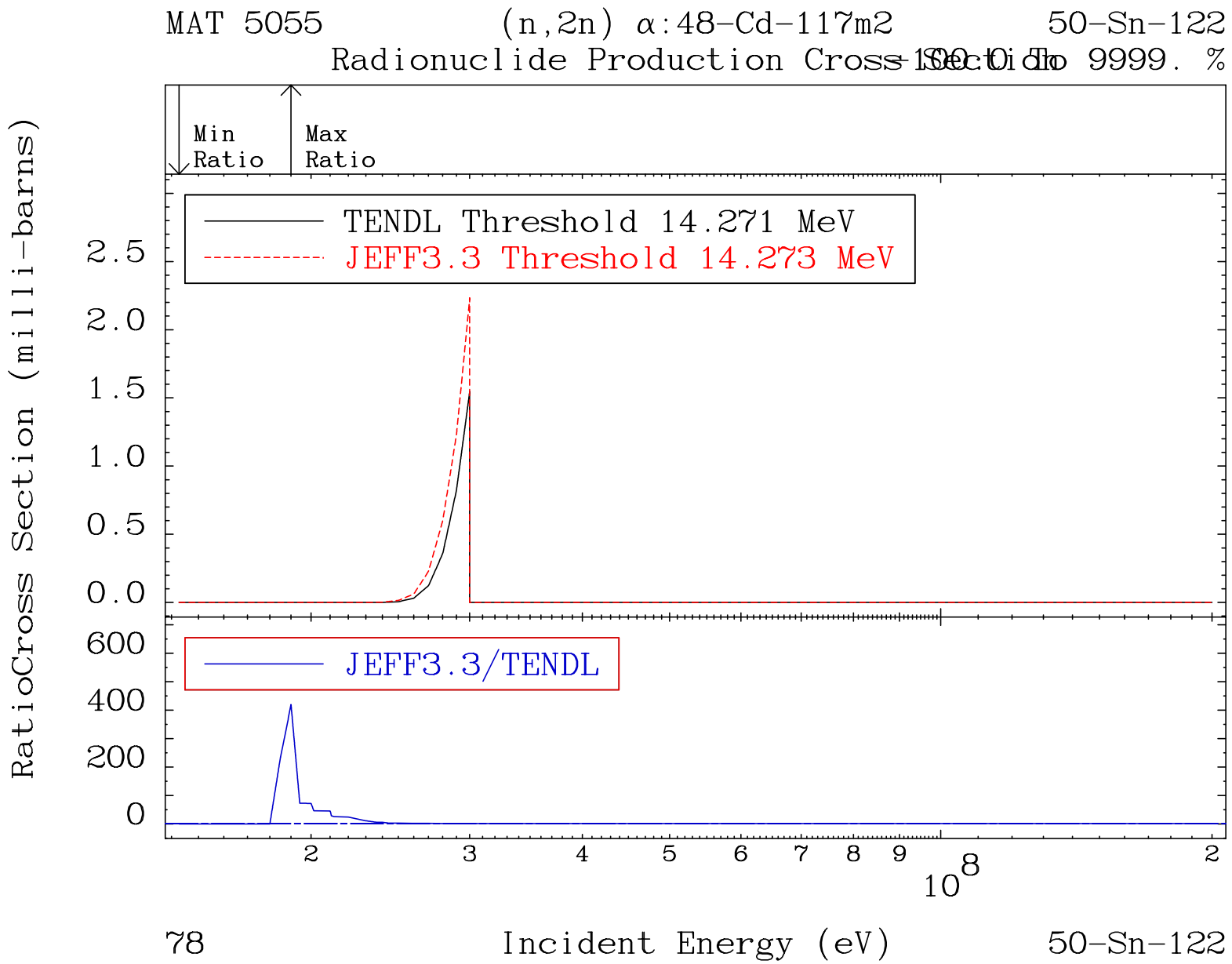

MAT 5055
(n,2n) d:49-In-119g
50-Sn-122
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 23.642 MeV
JEFF3.3 Threshold 23.642 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
16
12
8
4
0
200
100
0
40
60
80
100
120
140
160
180
200
73
Incident Energy (MeV)
50-Sn-122

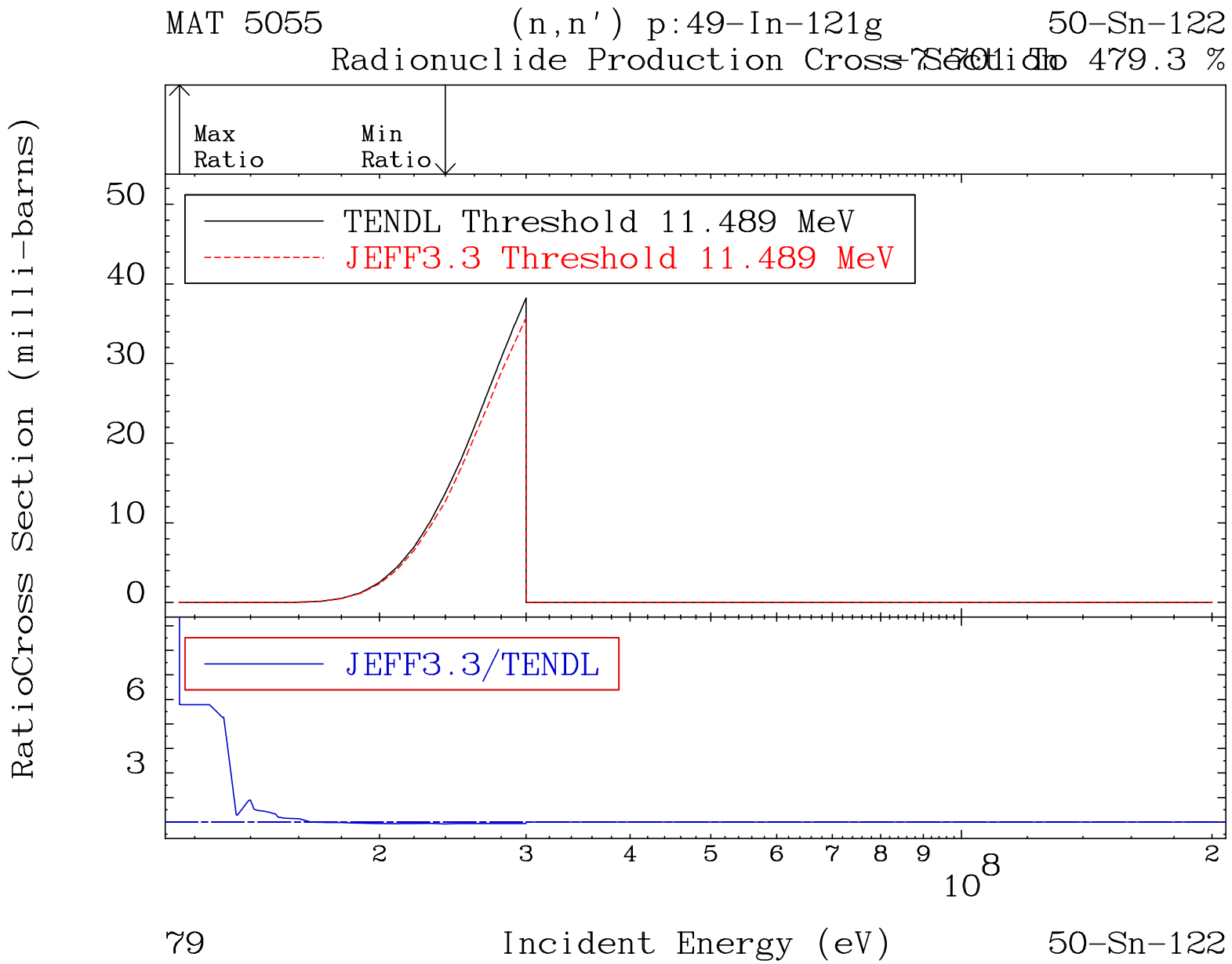

MAT 5055
(n,2n) d:49-In-119m1
50-Sn-122
Radionuclide Production Cross Section
0.000 To 3196. %
Min
Ratio
TENDL Threshold 25.000 MeV
JEFF3.3 Threshold 23.957 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.6
1.2
0.8
0.4
0.0
10^2
10^1
10^0
40
60
80
100
120
140
160
180
200
74
Incident Energy (MeV)
50-Sn-122

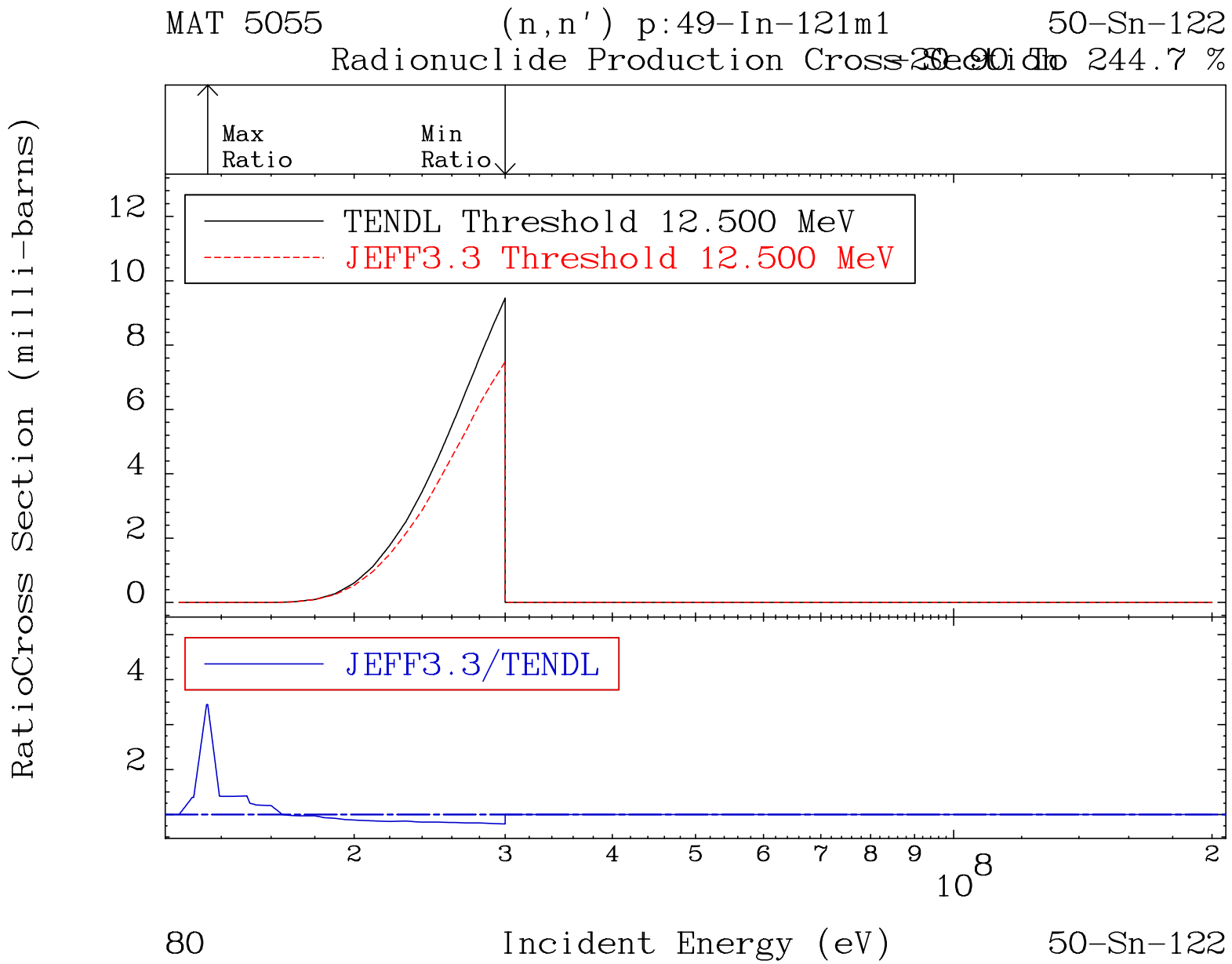

MAT 5055
(n,2n):50-Sn-121g
50-Sn-122
Radionuclide Production Cross Section To 101.4 %
Max
Ratio
TENDL Threshold 8.8876 MeV
JEFF3.3 Threshold 8.8876 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
3.0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
75
Incident Energy (eV)
50-Sn-122

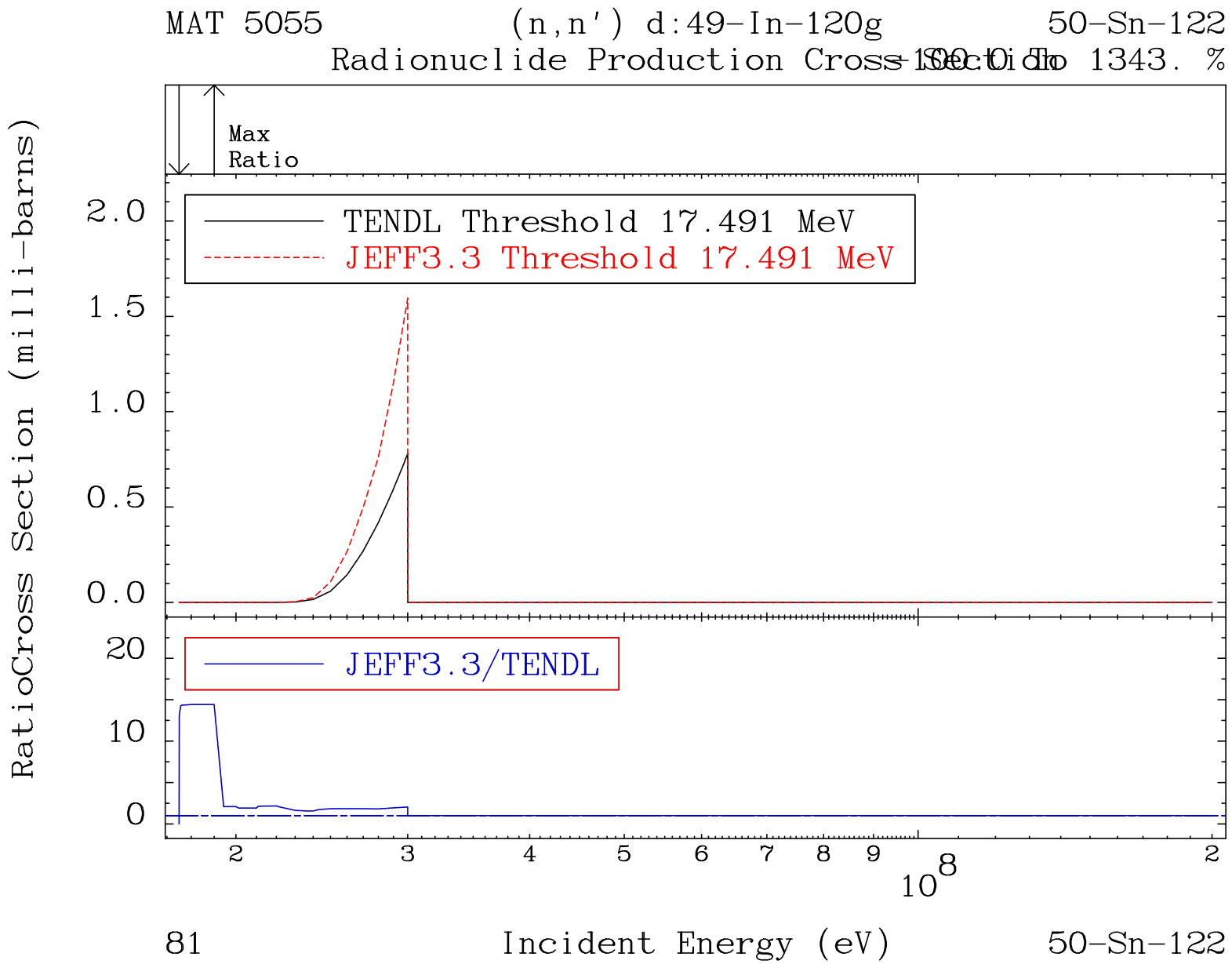

MAT 5055
(n,2n):50-Sn-121m1
50-Sn-122
Radionuclide Production Cross Section To 102.7 %
Max
Ratio
TENDL Threshold 8.8939 MeV
JEFF3.3 Threshold 8.8939 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
3.0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
50-Sn-122

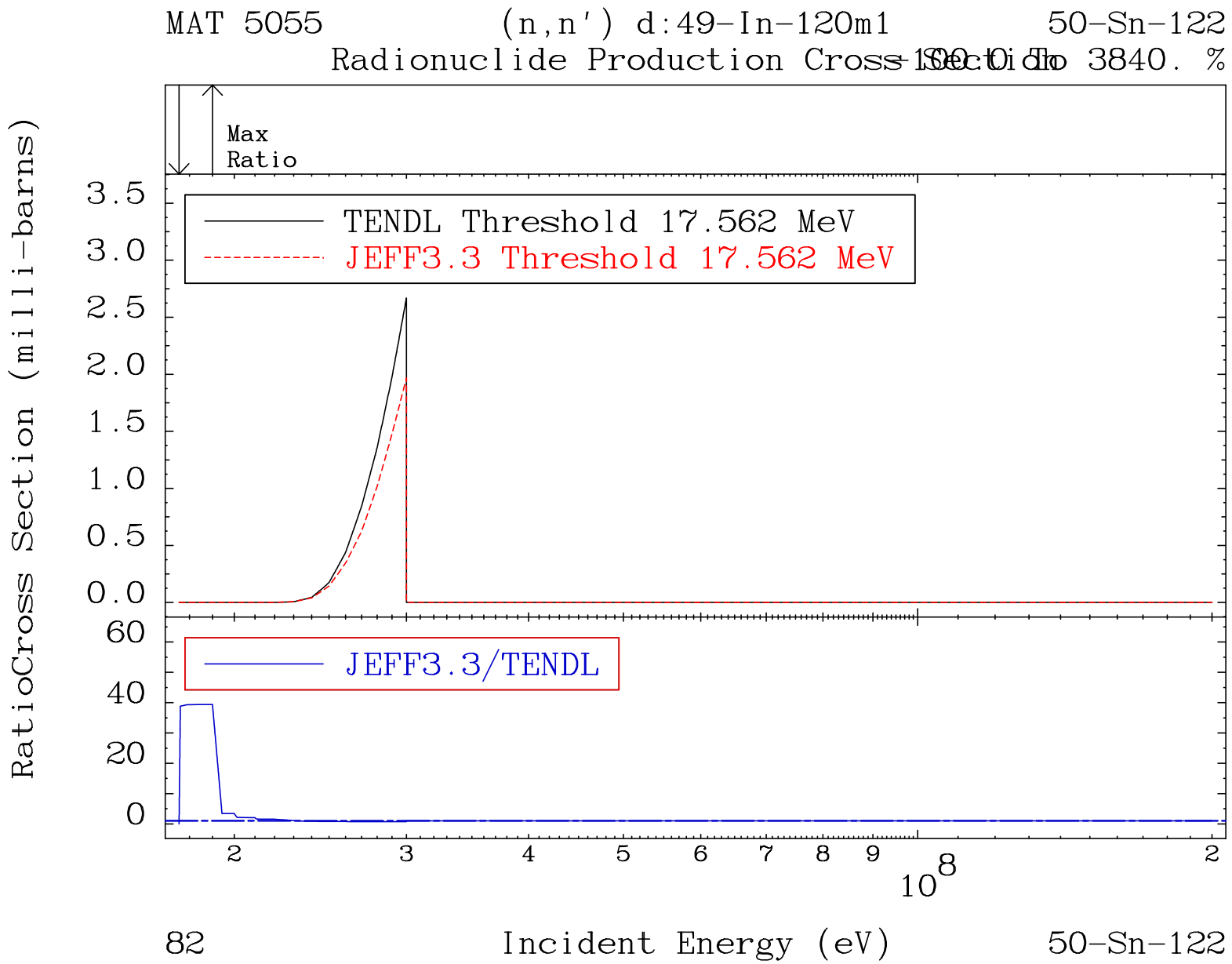

MAT 5055
(n,2n) α:48-Cd-117g
50-Sn-122
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 14.134 MeV
JEFF3.3 Threshold 14.135 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
700
600
500
400
300
200
100
0
400
200
0
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
50-Sn-122

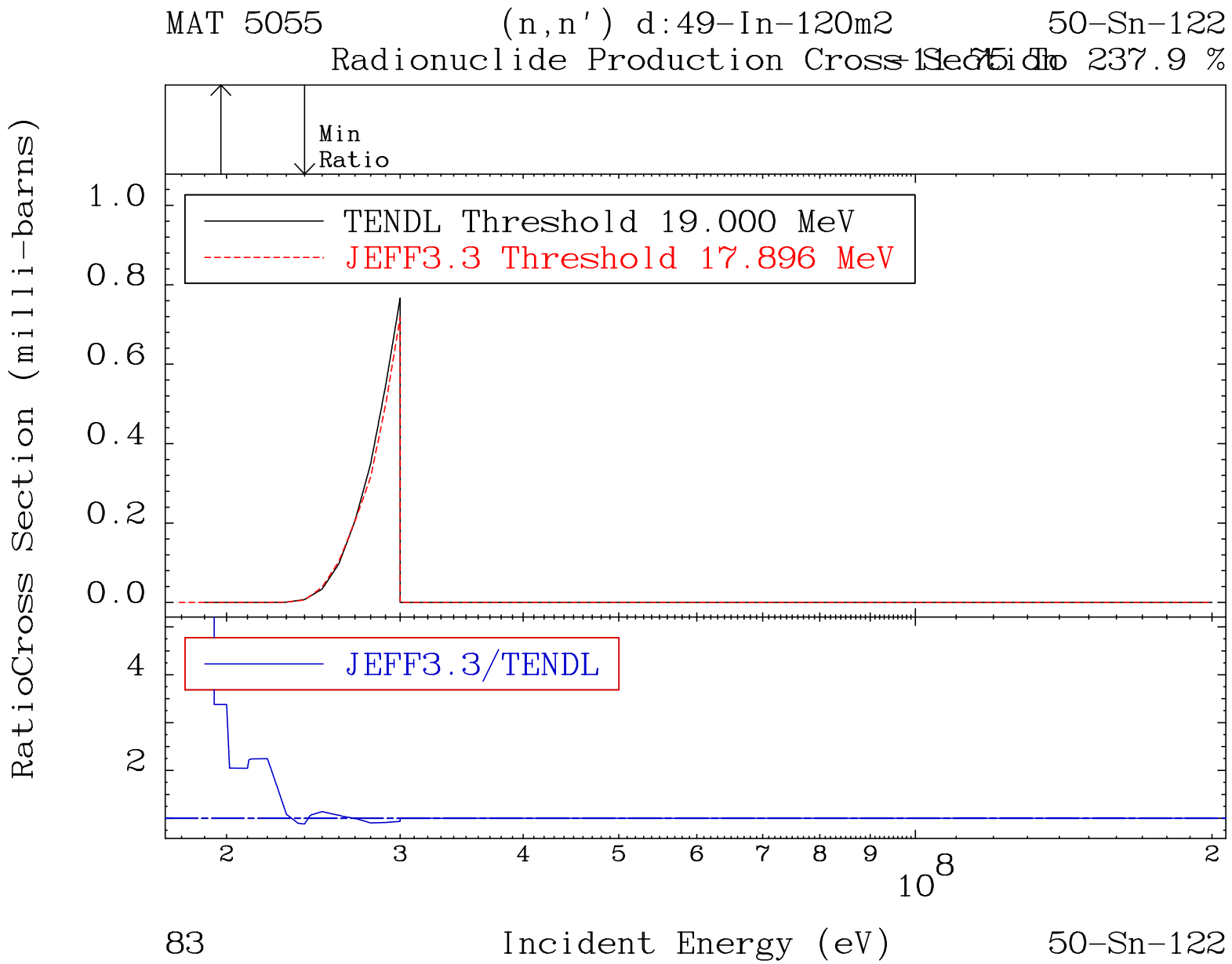

MAT 5055
(n,2n) α:48-Cd-117m2
50-Sn-122
Radionuclide Production Cross Section
1.00 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 14.271 MeV
JEFF3.3 Threshold 14.273 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
600
400
200
0
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
50-Sn-122

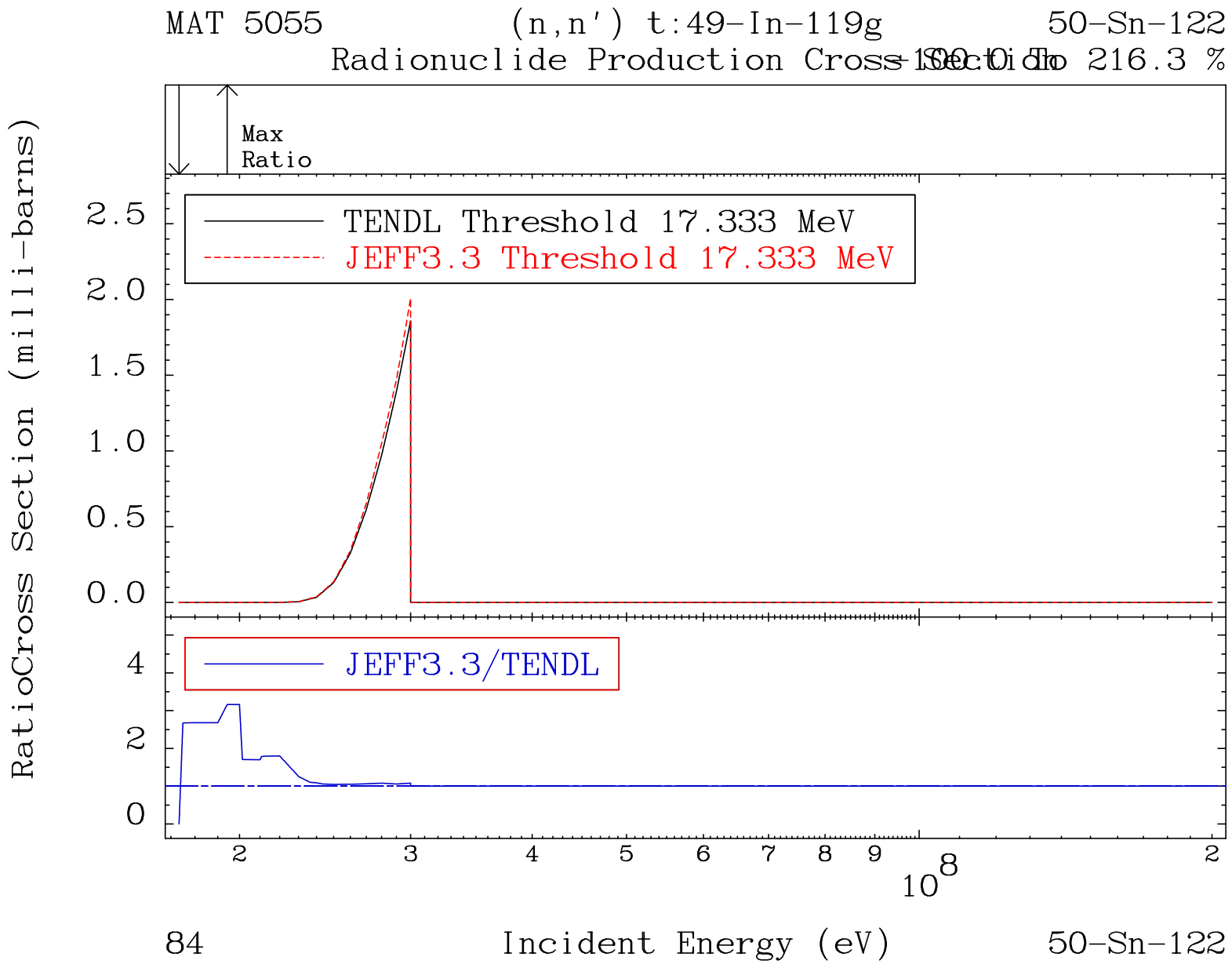

MAT 5055
(n,n') p:49-In-121g
50-Sn-122
Radionuclide Production Cross Section To 479.3 %
Max Ratio
Min Ratio
TENDL Threshold 11.489 MeV
JEFF3.3 Threshold 11.489 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
6
3
2
3
4
5
6
7
8
9
2
10^8
79
Incident Energy (eV)
50-Sn-122

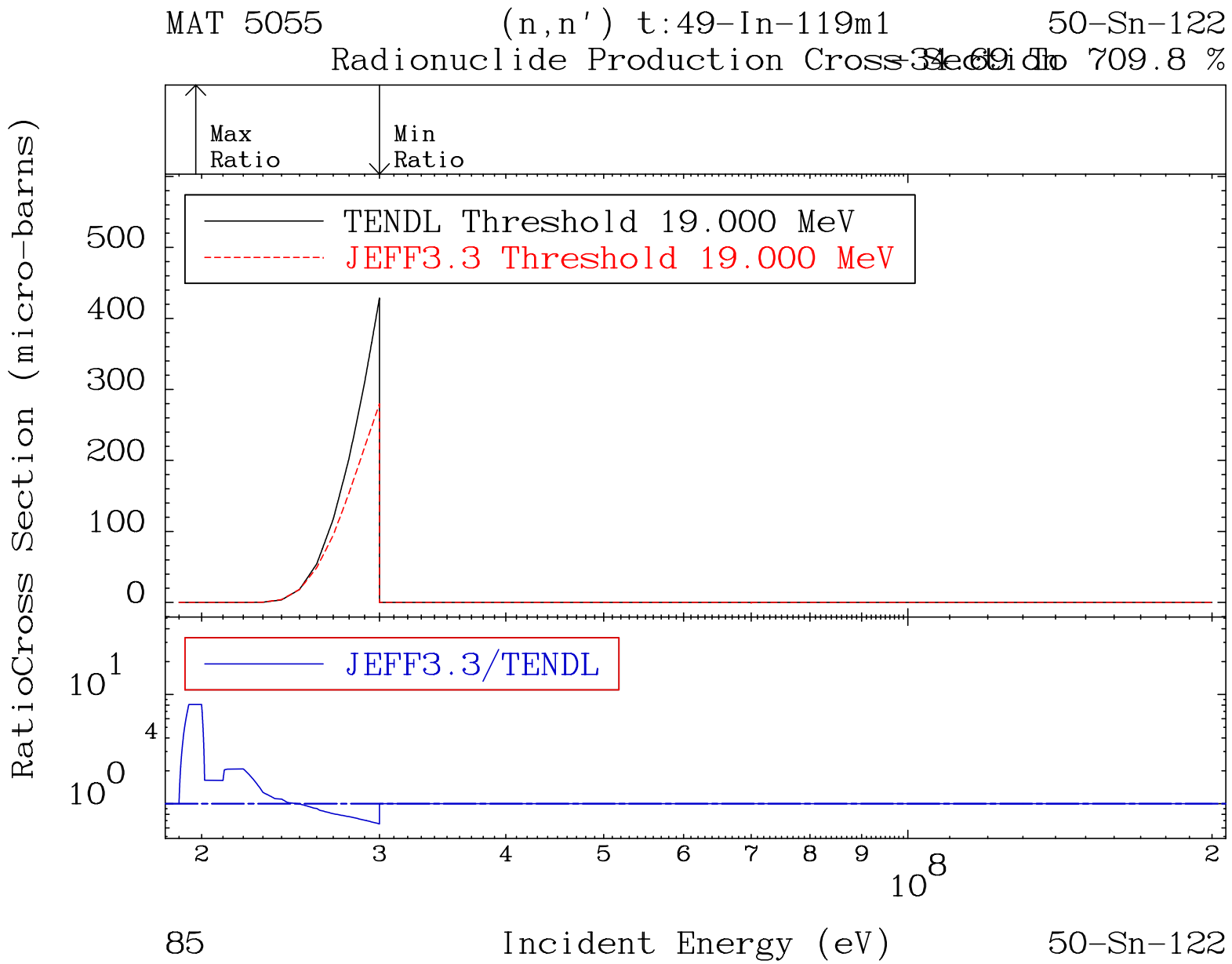

MAT 5055
(n,n') p:49-In-121m1
50-Sn-122
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 12.500 MeV
JEFF3.3 Threshold 12.500 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
80
50-Sn-122

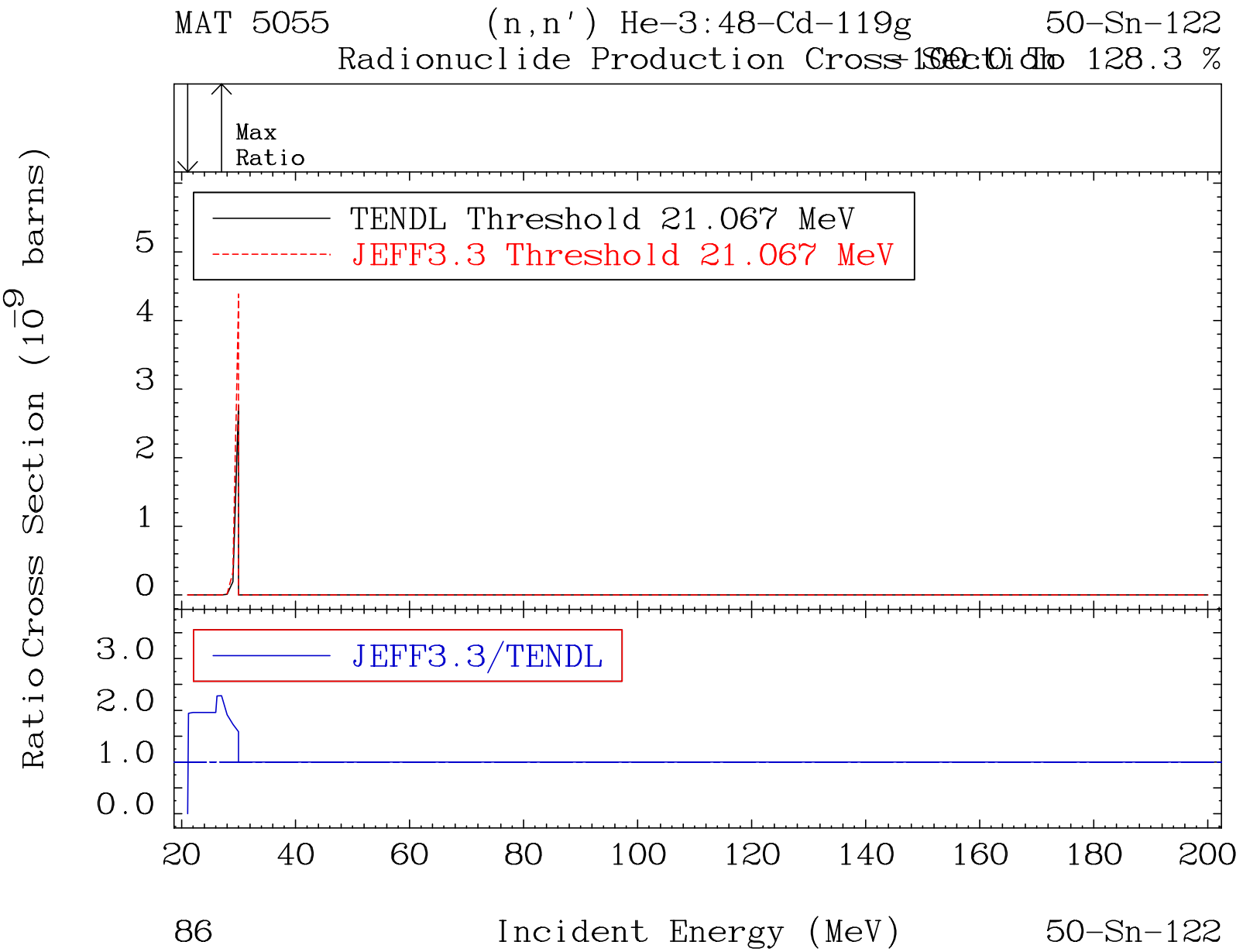

MAT 5055
(n,n') d:49-In-120g
50-Sn-122
Radionuclide Production Cross Section To 1343. %
Max
Ratio
TENDL Threshold 17.491 MeV
JEFF3.3 Threshold 17.491 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
20
10
0
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
50-Sn-122

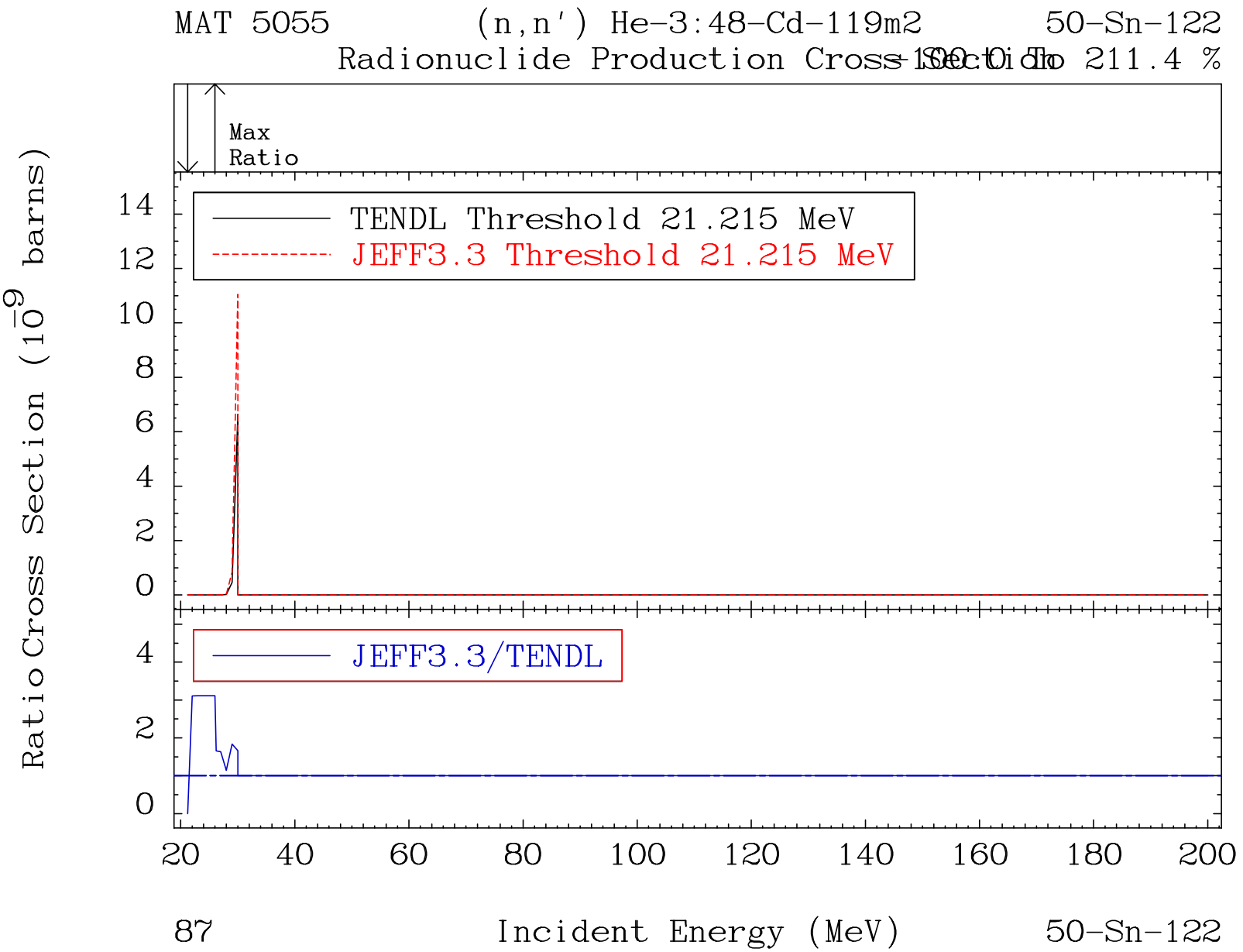

MAT 5055
(n,n') d:49-In-120m1
50-Sn-122
Radionuclide Production Cross Section To 3840. %
Max
Ratio
TENDL Threshold 17.562 MeV
JEFF3.3 Threshold 17.562 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
60
40
20
0
2
3
4
5
6
7
8
9
2
10^8
82
Incident Energy (eV)
50-Sn-122

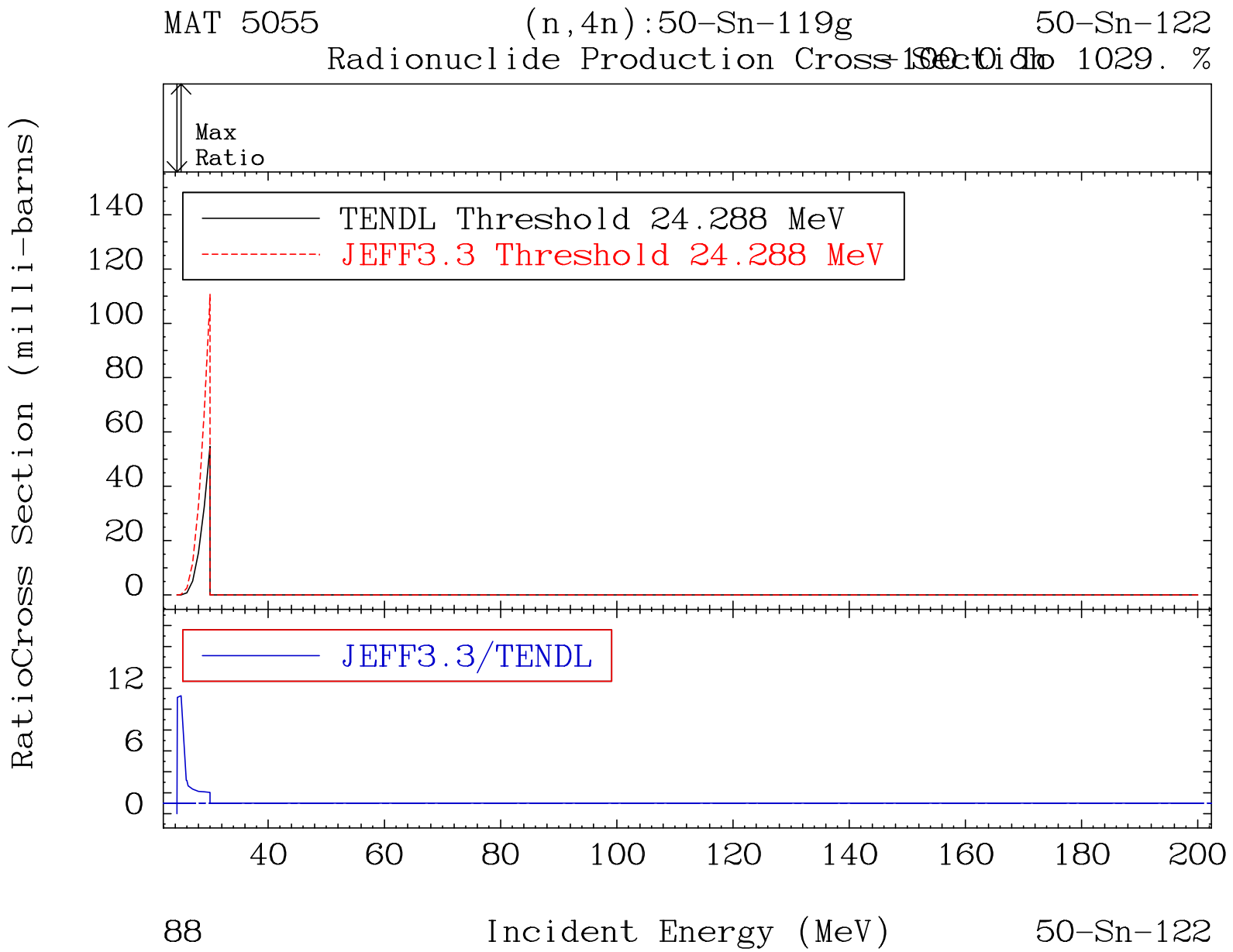

MAT 5055
(n,n') d:49-In-120m2
50-Sn-122
Radionuclide Production Cross Section To 237.9 %
Min
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
TENDL Threshold 19.000 MeV
JEFF3.3 Threshold 17.896 MeV
4
2
JEFF3.3/TENDL
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
83
Incident Energy (eV)
50-Sn-122

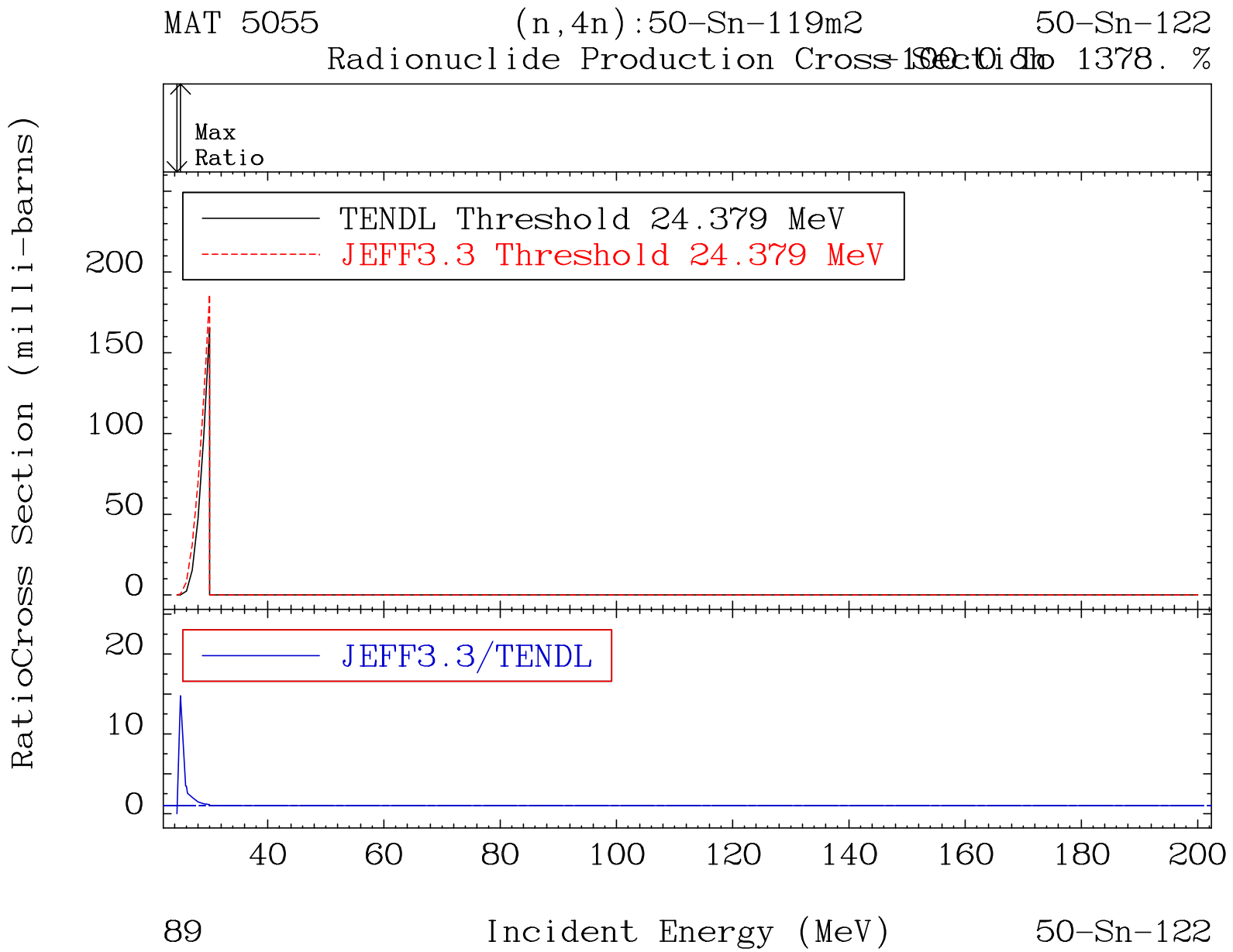

MAT 5055
(n,n') t:49-In-119g
50-Sn-122
Radionuclide Production Cross Section To 216.3 %
Max
Ratio
TENDL Threshold 17.333 MeV
JEFF3.3 Threshold 17.333 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
50-Sn-122

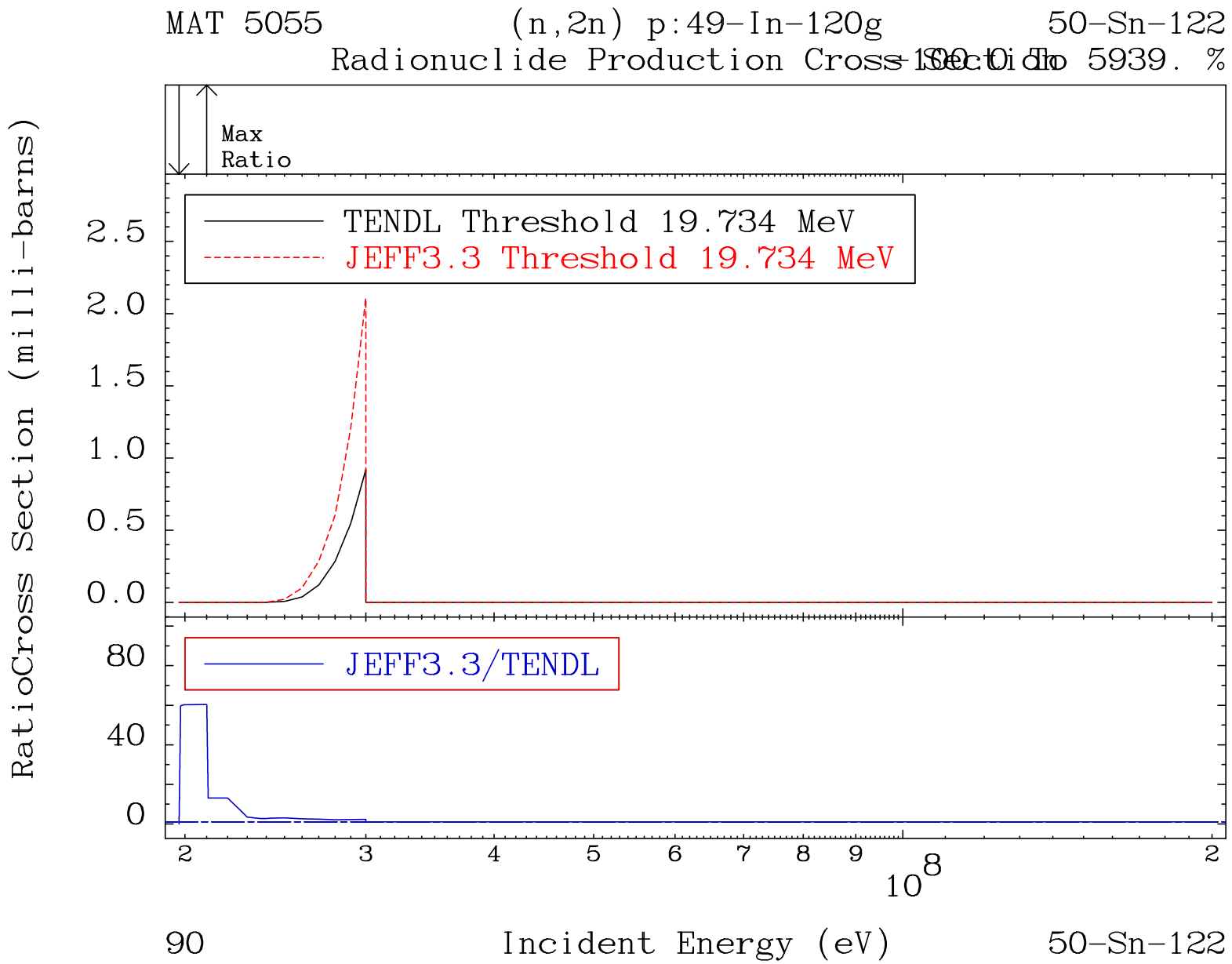

MAT 5055
(n,n') t:49-In-119m1
50-Sn-122
Radionuclide Production Cross-Section To 709.8 %
Max Ratio
Min Ratio
TENDL Threshold 19.000 MeV
JEFF3.3 Threshold 19.000 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
500
400
300
200
100
0
10^1
10^0
4
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
50-Sn-122

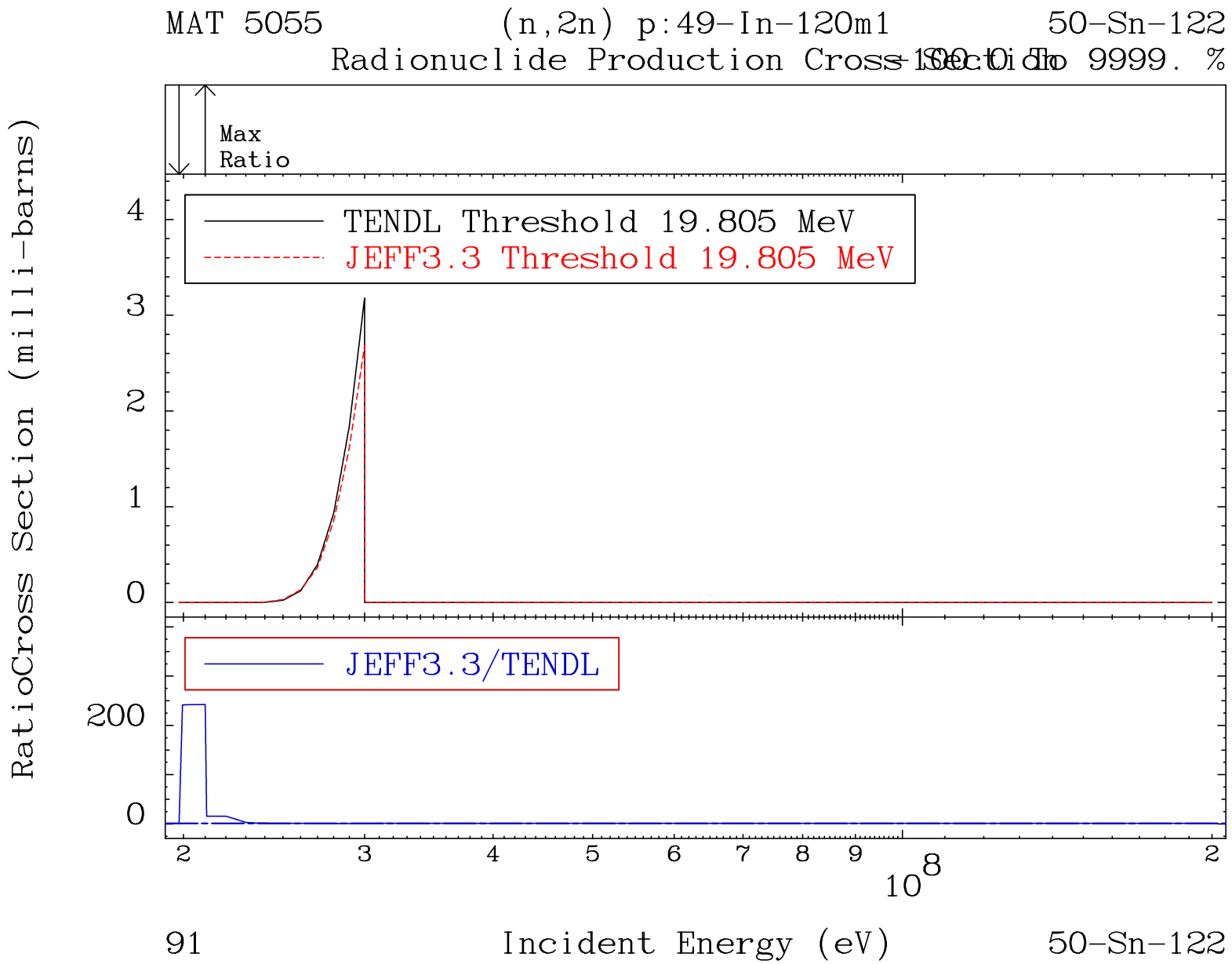

MAT 5055 (n,n') He-3:48-Cd-119g 50-Sn-122
Radionuclide Production Cross Section To 128.3 %
Max
Ratio
TENDL Threshold 21.067 MeV
JEFF3.3 Threshold 21.067 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
0
1
2
3
4
5
0.0
1.0
2.0
3.0
20
40
60
80
100
120
140
160
180
200
86
Incident Energy (MeV)
50-Sn-122

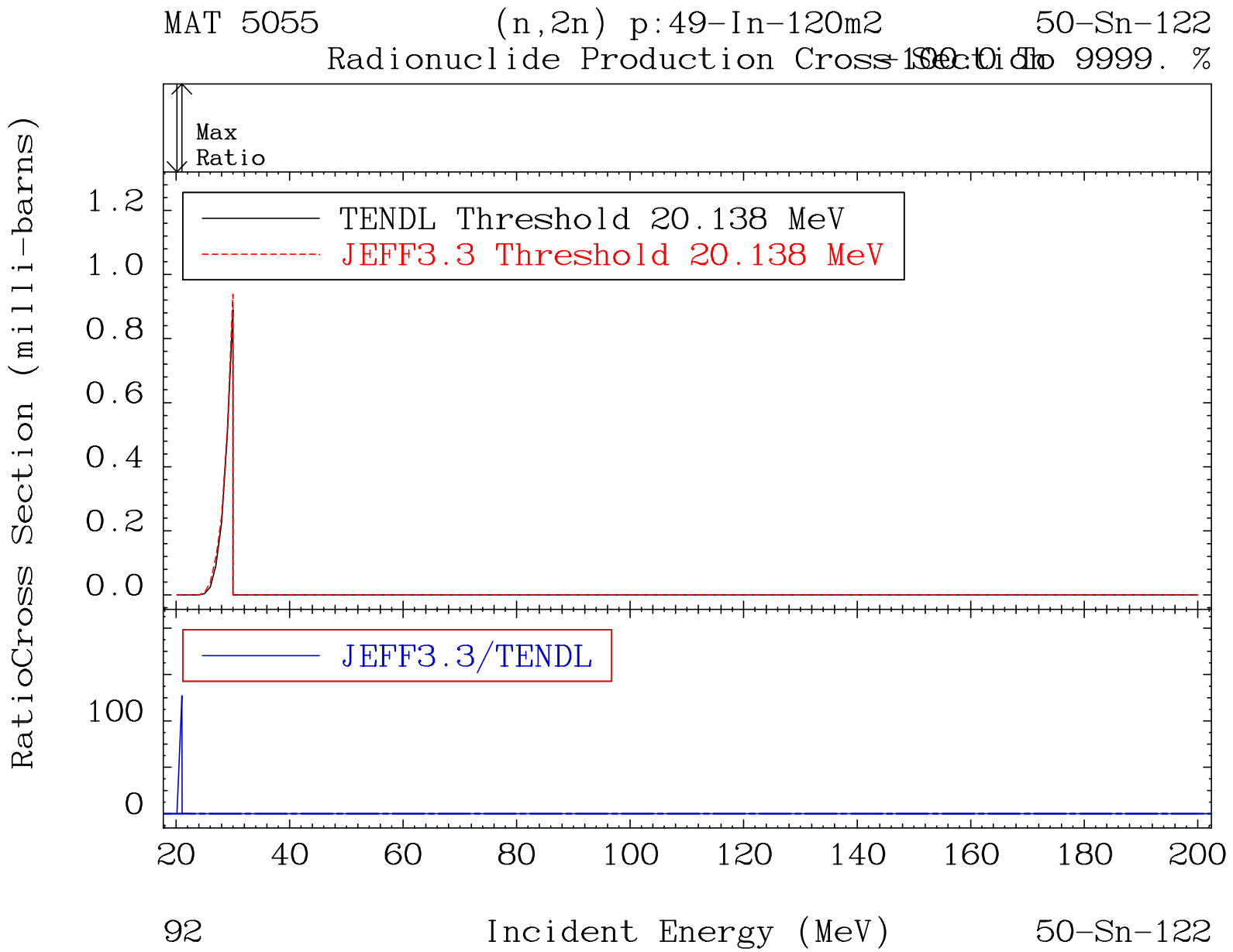

MAT 5055 (n,n') He-3:48-Cd-119m2 50-Sn-122
Radionuclide Production Cross Section To 211.4 %
Max
Ratio
TENDL Threshold 21.215 MeV
JEFF3.3 Threshold 21.215 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
Incident Energy (MeV)
87
50-Sn-122

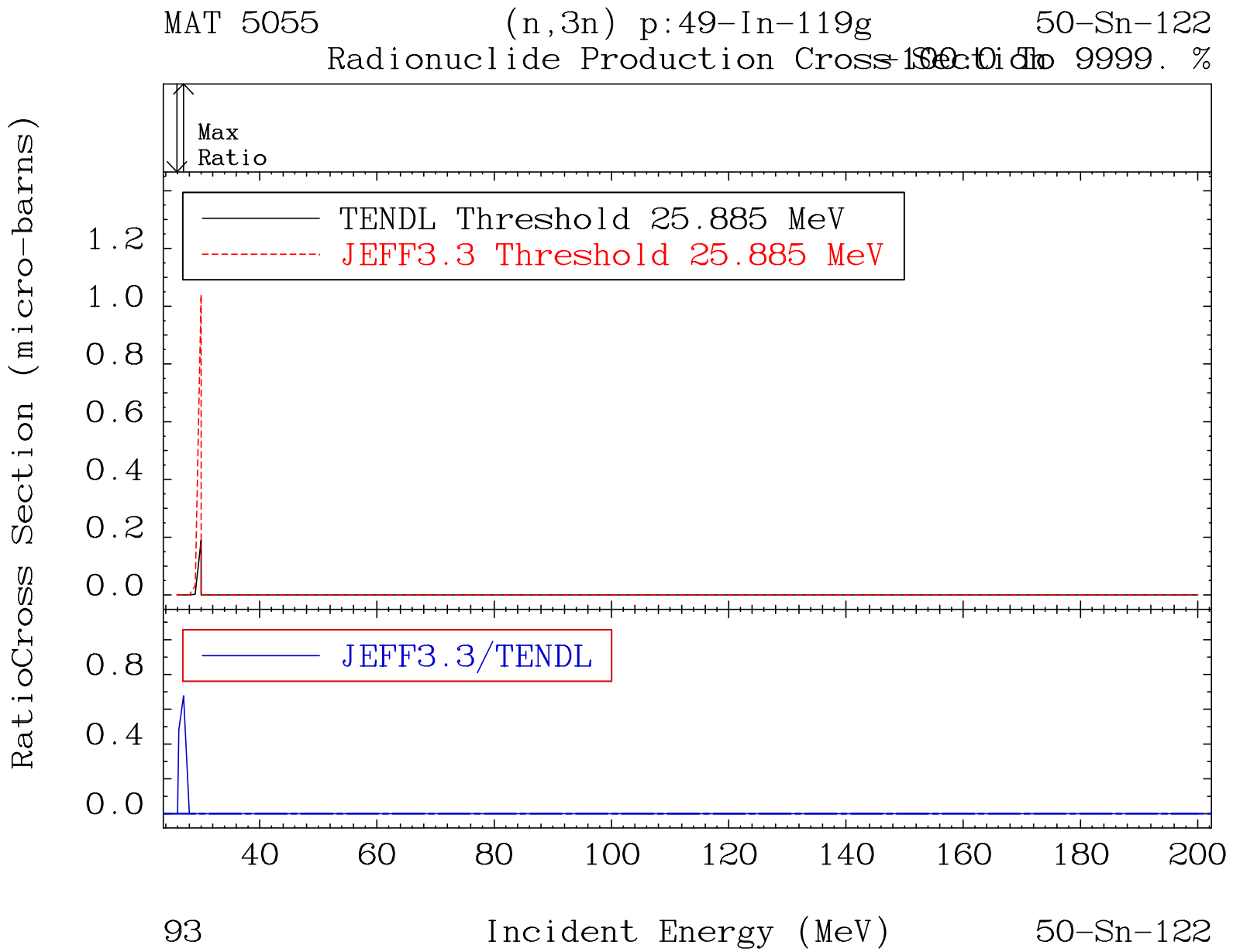

MAT 5055
(n,4n):50-Sn-119g
50-Sn-122
Radionuclide Production Cross Section To 1029. %
Max
Ratio
TENDL Threshold 24.288 MeV
JEFF3.3 Threshold 24.288 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
12
6
0
40
60
80
100
120
140
160
180
200
88
Incident Energy (MeV)
50-Sn-122

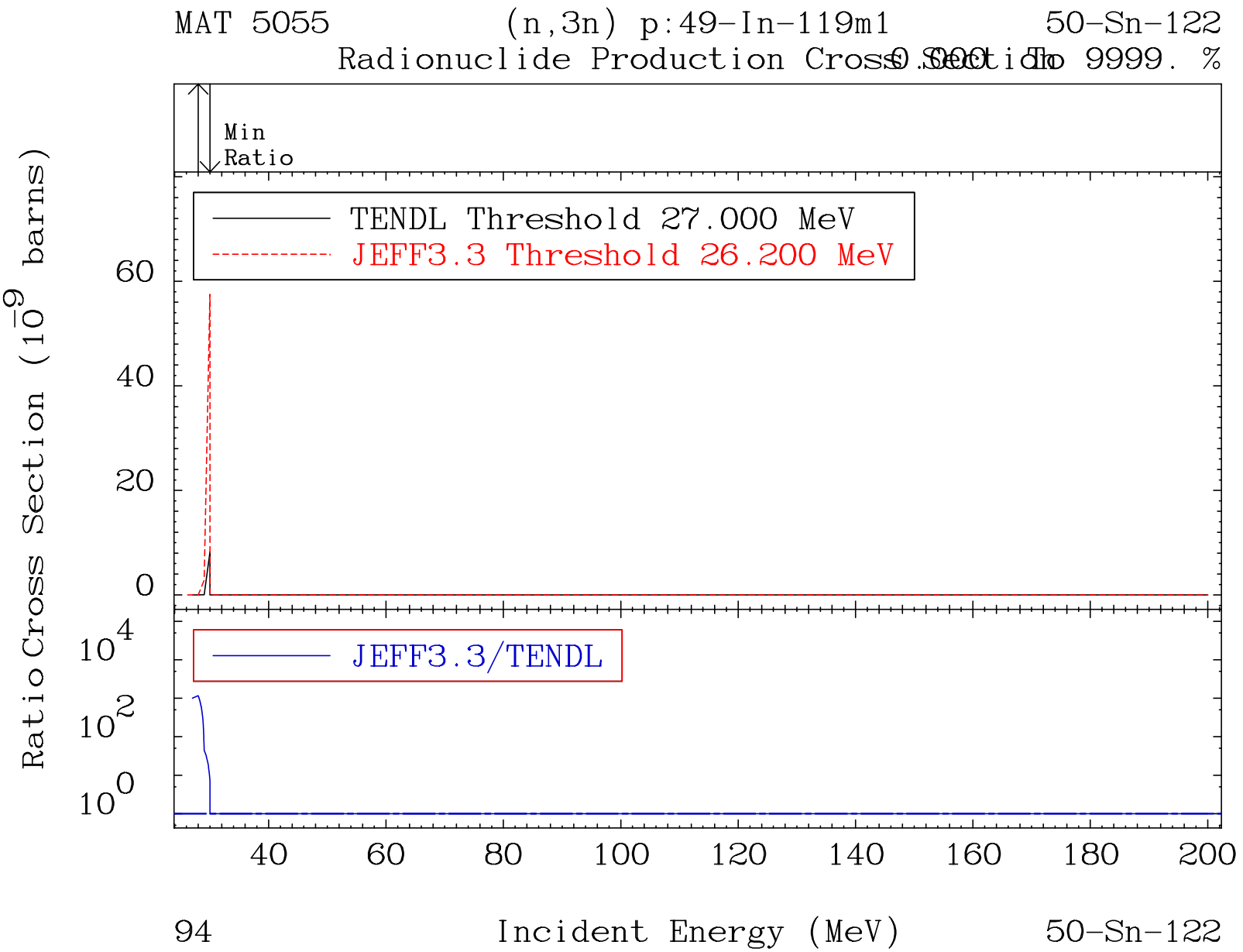

MAT 5055
(n,4n):50-Sn-119m2
50-Sn-122
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 24.379 MeV
JEFF3.3 Threshold 24.379 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
20
10
0
40
60
80
100
120
140
160
180
200
89
Incident Energy (MeV)
50-Sn-122

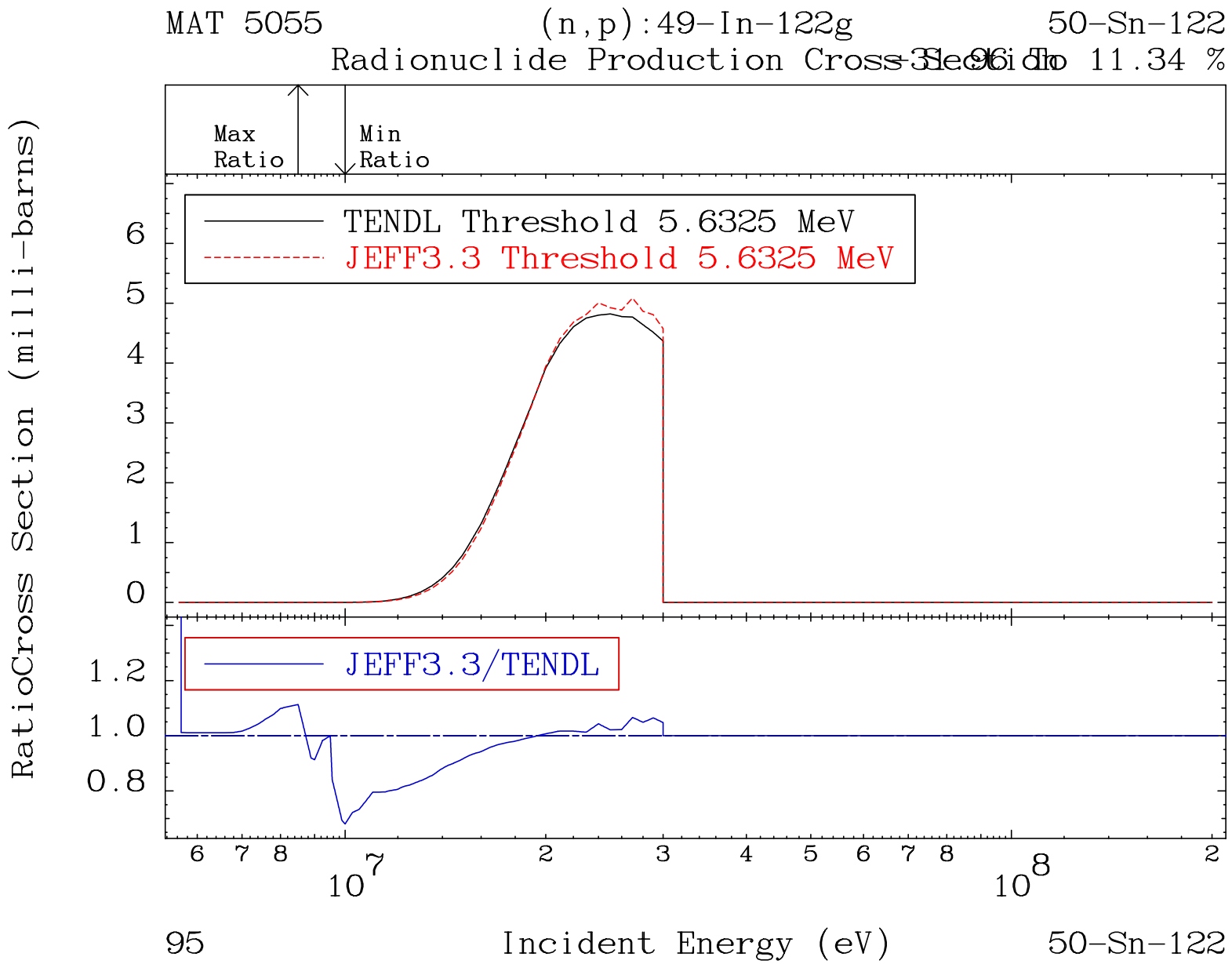

MAT 5055
(n,2n) p:49-In-120g
50-Sn-122
Radionuclide Production Cross Section To 5939. %
Max
Ratio
TENDL Threshold 19.734 MeV
JEFF3.3 Threshold 19.734 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
80
40
0
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
50-Sn-122

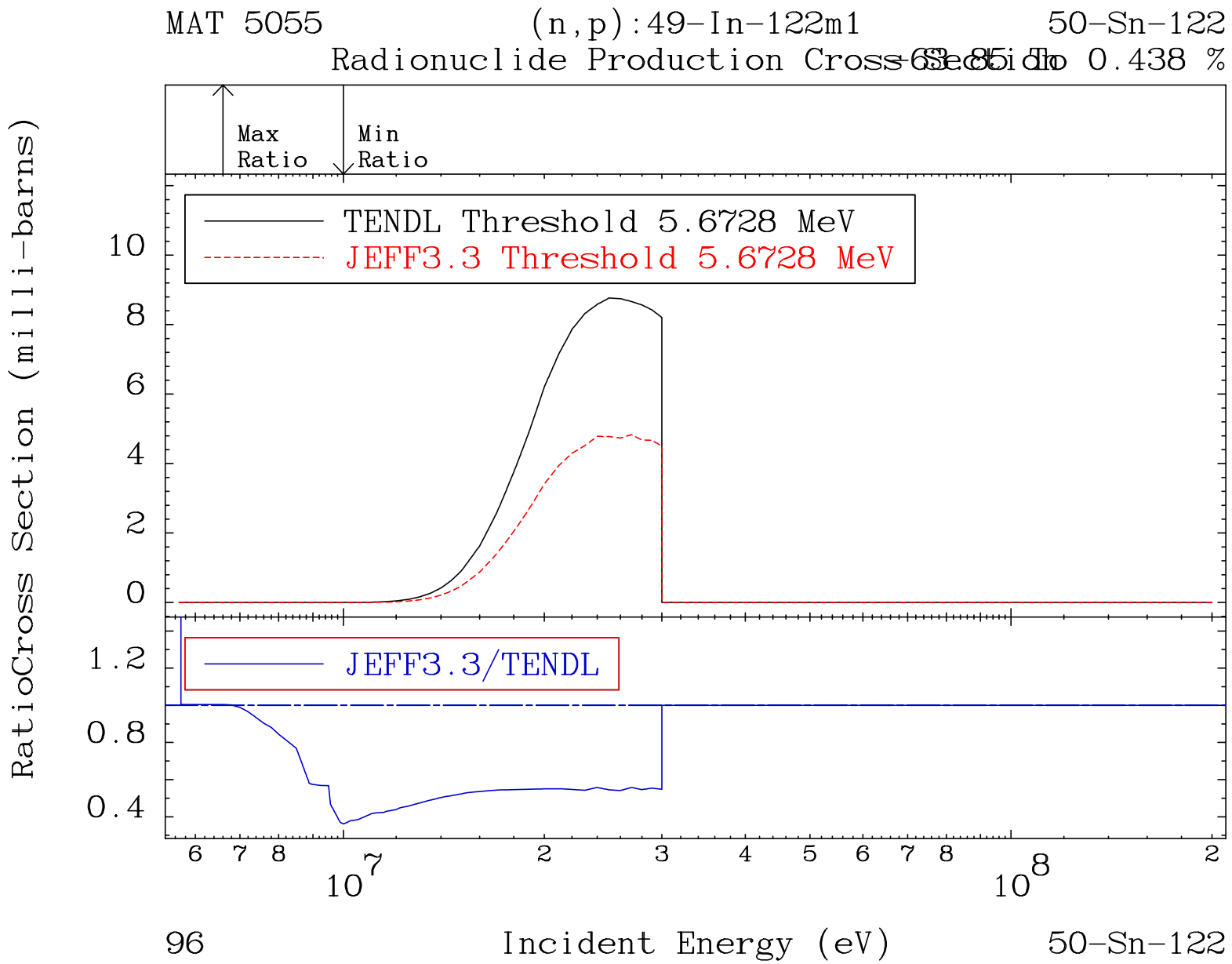

MAT 5055
(n,2n) p:49-In-120m1
50-Sn-122
Radionuclide Production Cross Section
Uncertainty 9999. %
Max
Ratio
TENDL Threshold 19.805 MeV
JEFF3.3 Threshold 19.805 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
4
3
2
1
0
200
0
2
3
4
5
6
7
8
9
10^8
2
91
Incident Energy (eV)
50-Sn-122

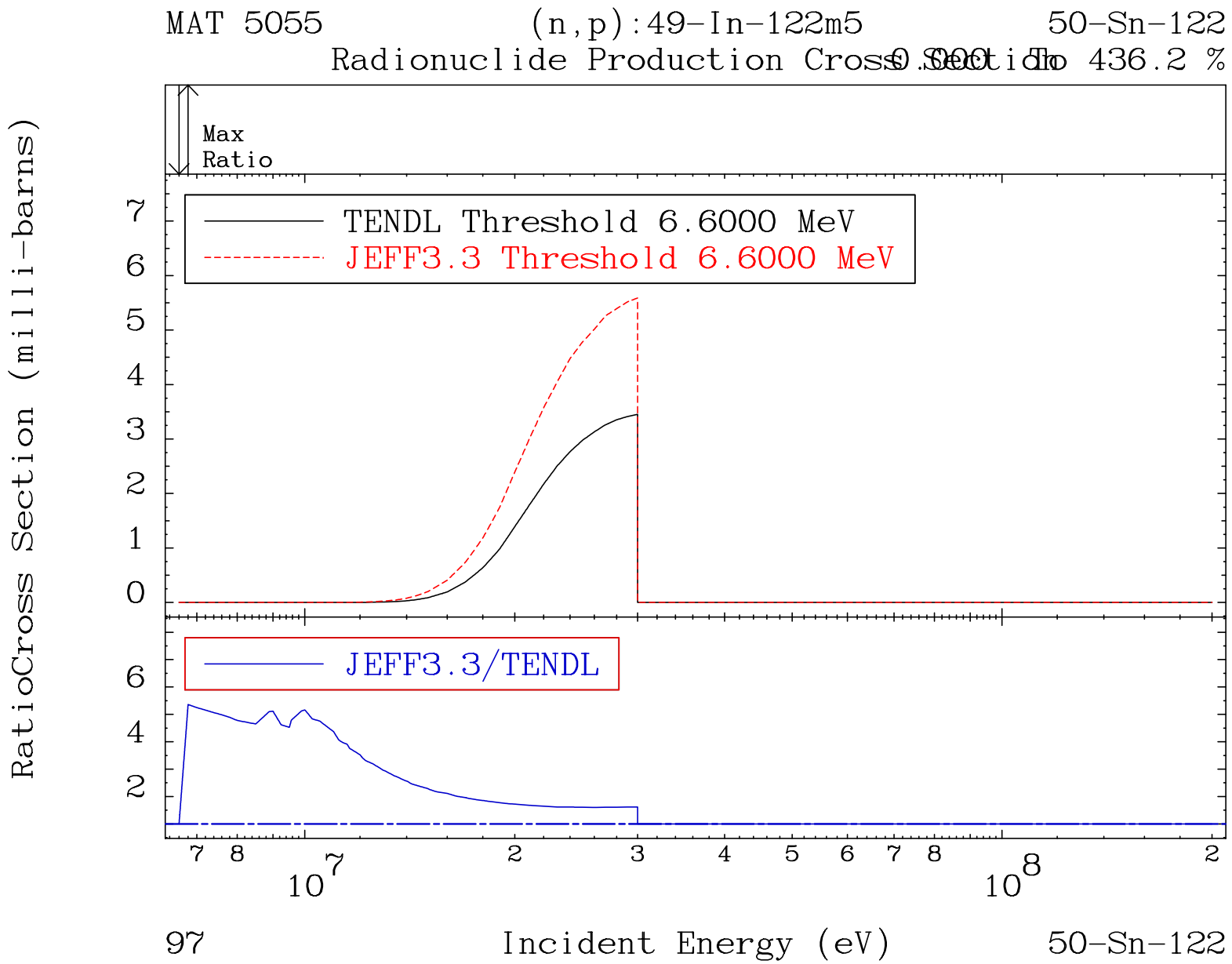

MAT 5055
(n,2n) p:49-In-120m2
50-Sn-122
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 20.138 MeV
JEFF3.3 Threshold 20.138 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
100
0
20
40
60
80
100
120
140
160
180
200
92
Incident Energy (MeV)
50-Sn-122

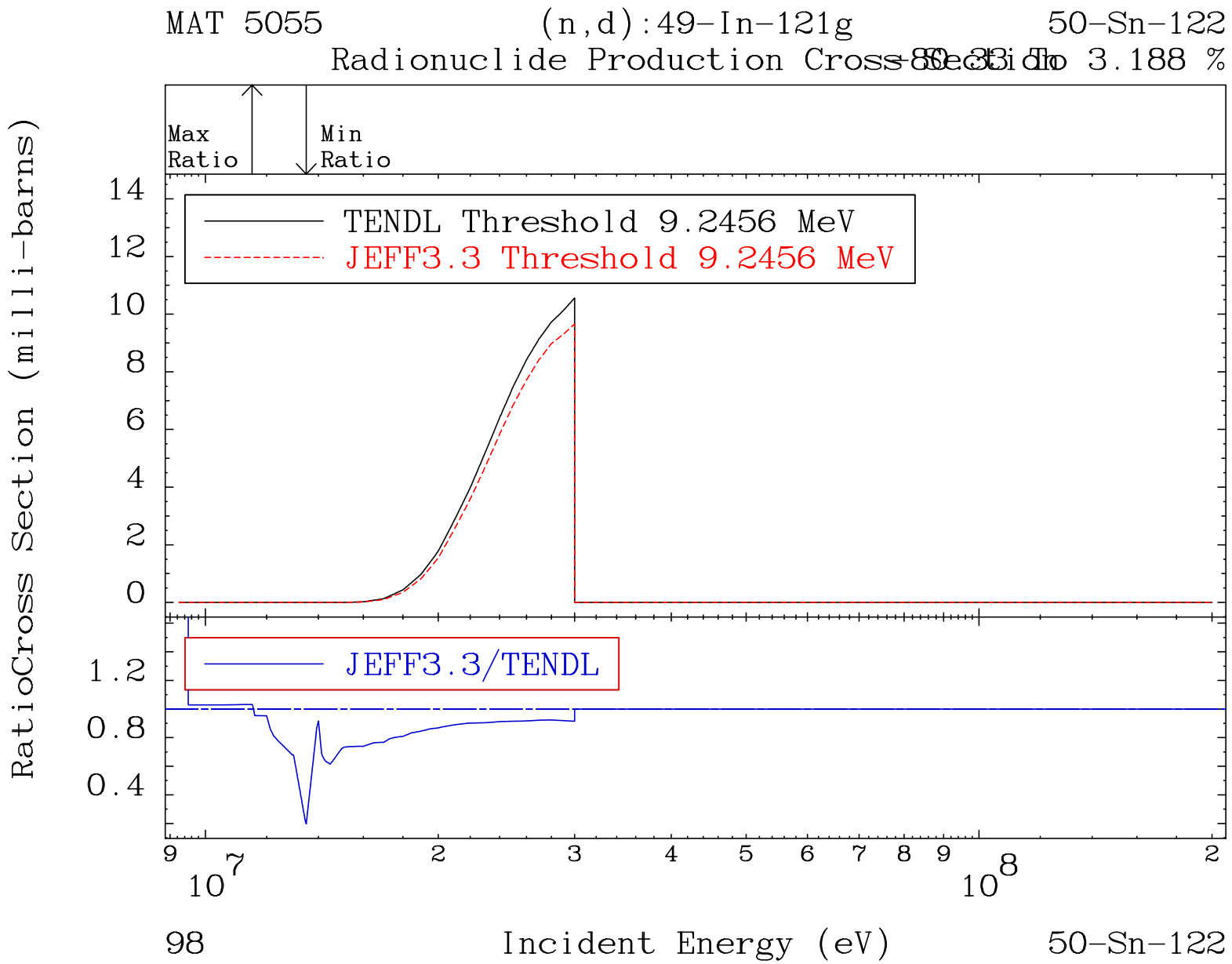

MAT 5055
(n,3n) p:49-In-119g
50-Sn-122
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 25.885 MeV
JEFF3.3 Threshold 25.885 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.8
0.4
0.0
40
60
80
100
120
140
160
180
200
93
Incident Energy (MeV)
50-Sn-122

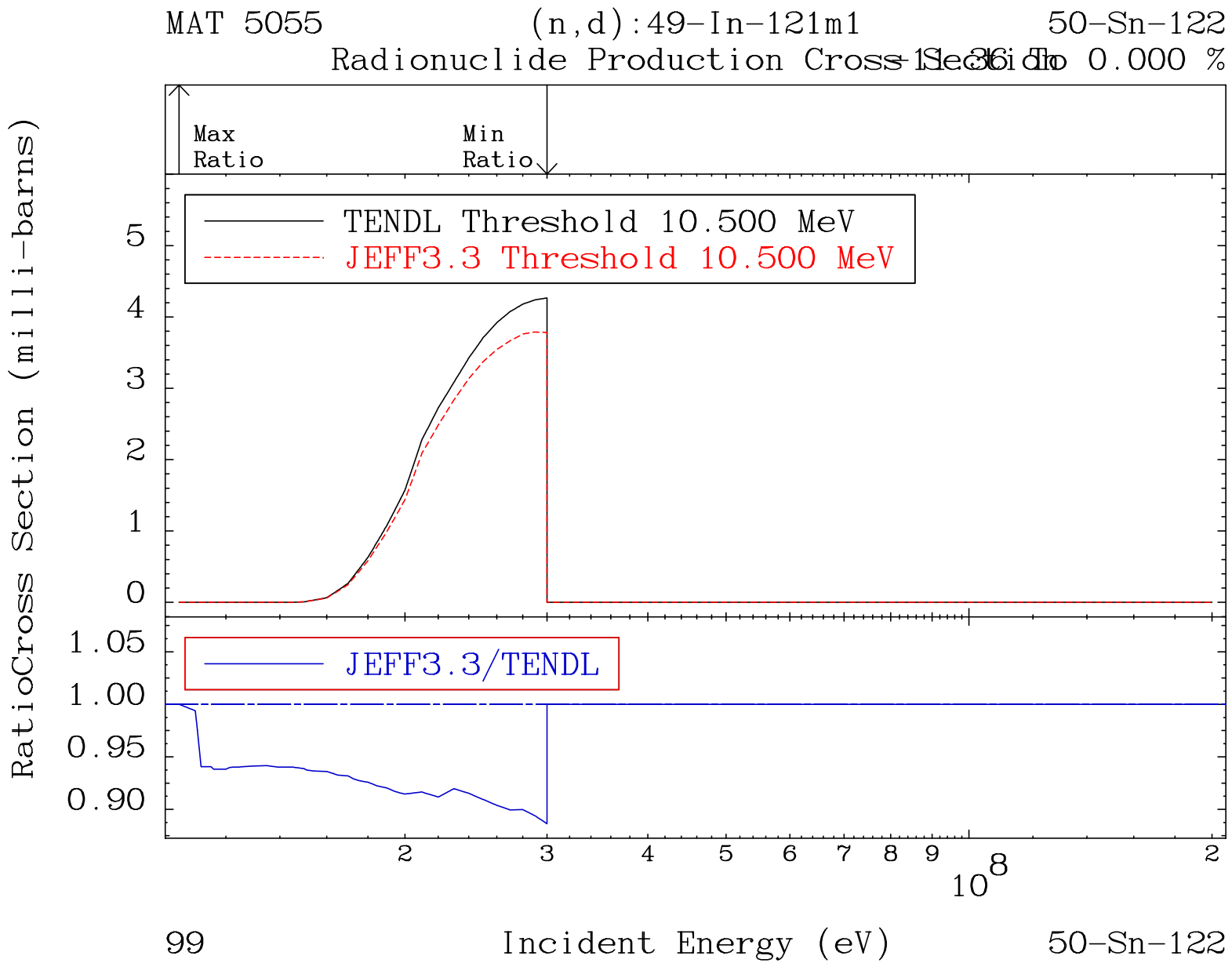

MAT 5055
(n,3n) p:49-In-119m1
50-Sn-122
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 27.000 MeV
JEFF3.3 Threshold 26.200 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
60
40
20
0
10^4
10^2
10^0
40
60
80
100
120
140
160
180
200
94
Incident Energy (MeV)
50-Sn-122

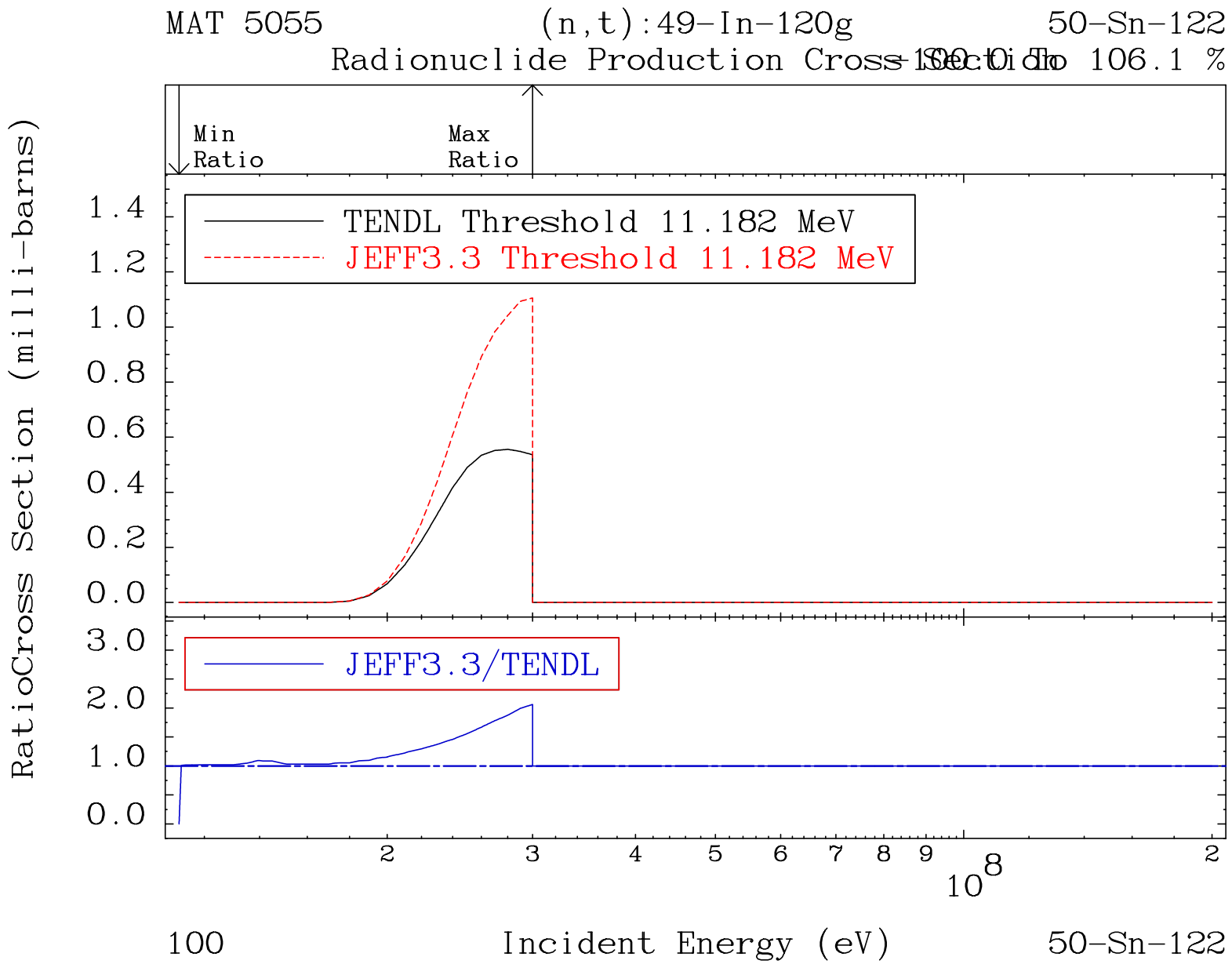

MAT 5055
(n,p):49-In-122g
50-Sn-122
Radionuclide Production Cross-Section
Max Ratio
Min Ratio
TENDL Threshold 5.6325 MeV
JEFF3.3 Threshold 5.6325 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
95
50-Sn-122

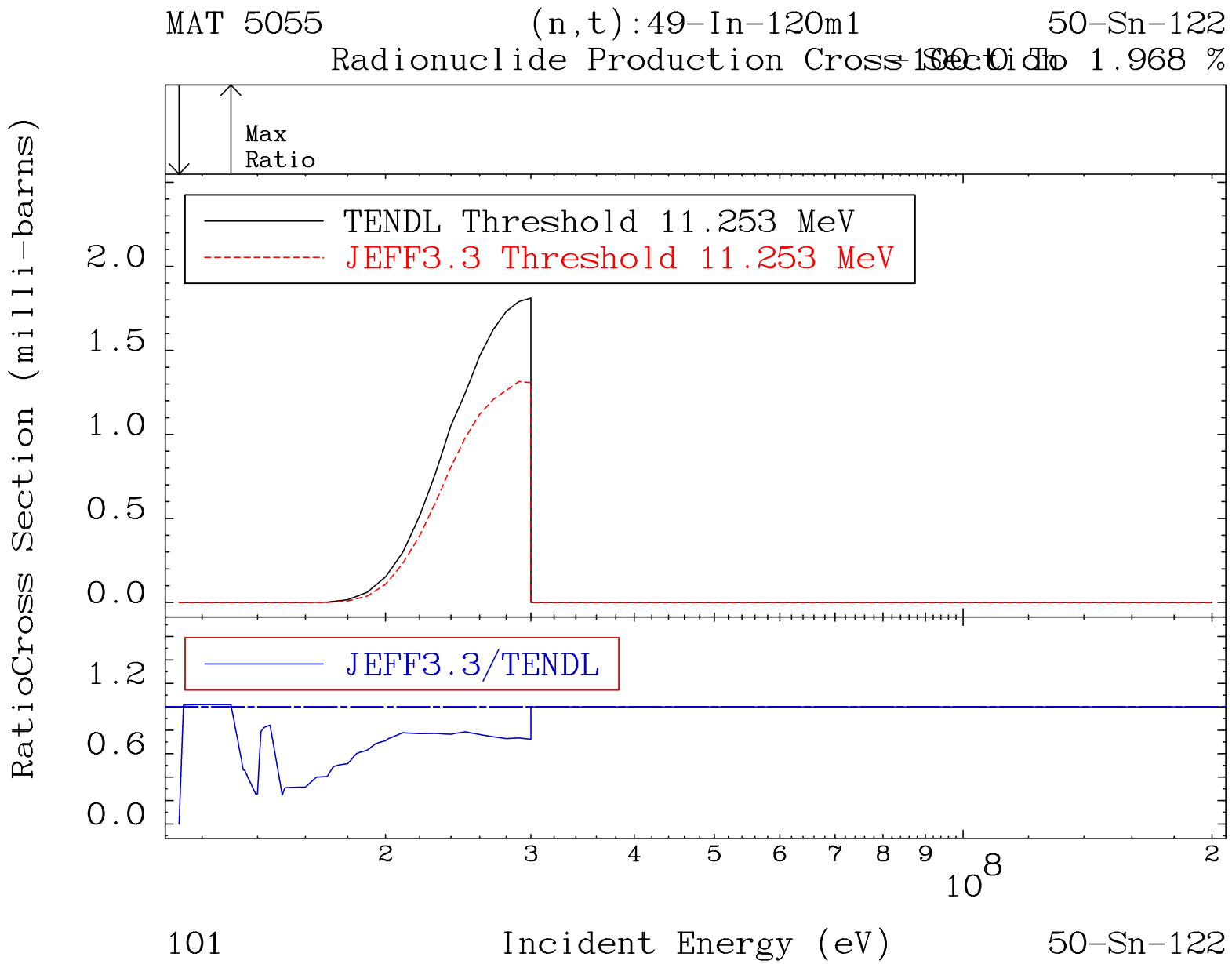

MAT 5055
(n,p):49-In-122m1
50-Sn-122
Radionuclide Production Cross Section To 0.438 %
Max Ratio
Min Ratio
TENDL Threshold 5.6728 MeV
JEFF3.3 Threshold 5.6728 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
1.2
0.8
0.4
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
96
Incident Energy (eV)
50-Sn-122

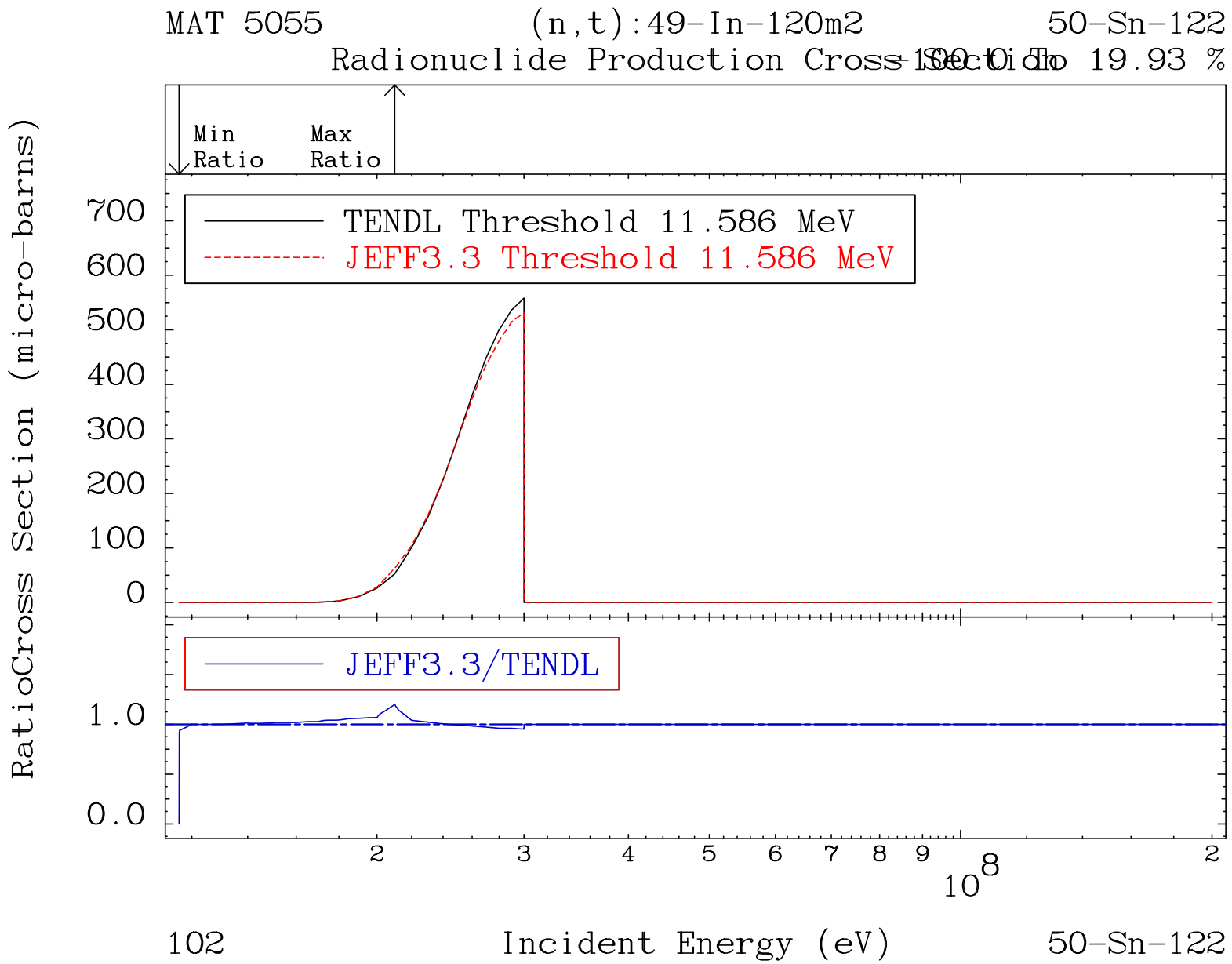

MAT 5055
(n,p):49-In-122m5
50-Sn-122
Radionuclide Production Cross Section
0.000 To 436.2 %
Max
Ratio
TENDL Threshold 6.6000 MeV
JEFF3.3 Threshold 6.6000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
97
50-Sn-122

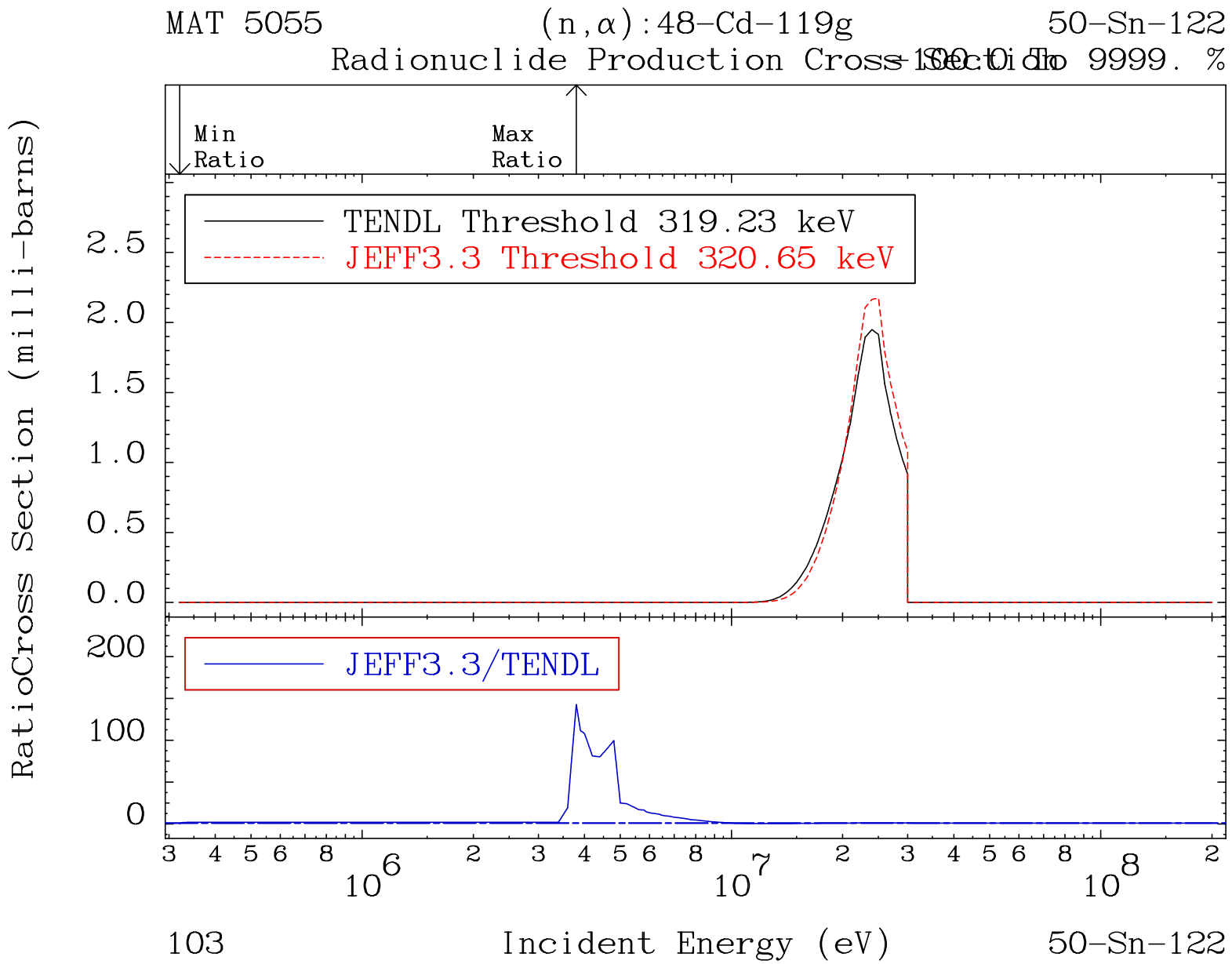

MAT 5055
(n,d):49-In-121g
50-Sn-122
Radionuclide Production Cross Section To 3.188 %
Max Ratio
Min Ratio
TENDL Threshold 9.2456 MeV
JEFF3.3 Threshold 9.2456 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
98
50-Sn-122

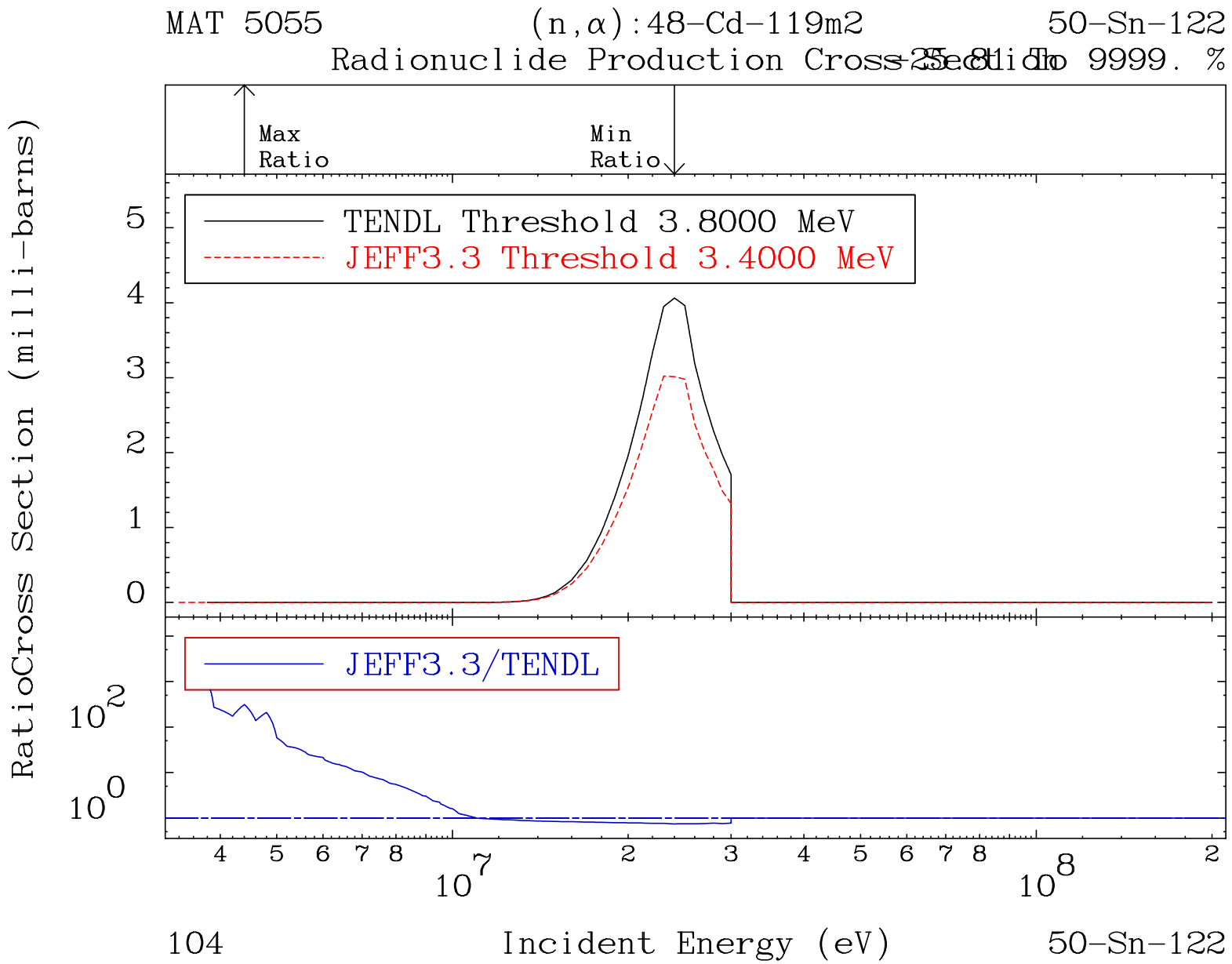

MAT 5055
(n,d):49-In-121m1
50-Sn-122
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 10.500 MeV
JEFF3.3 Threshold 10.500 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
5
4
3
2
1
0
1.05
1.00
0.95
0.90
2
3
4
5
6
7
8
9
2
10^8
99
Incident Energy (eV)
50-Sn-122

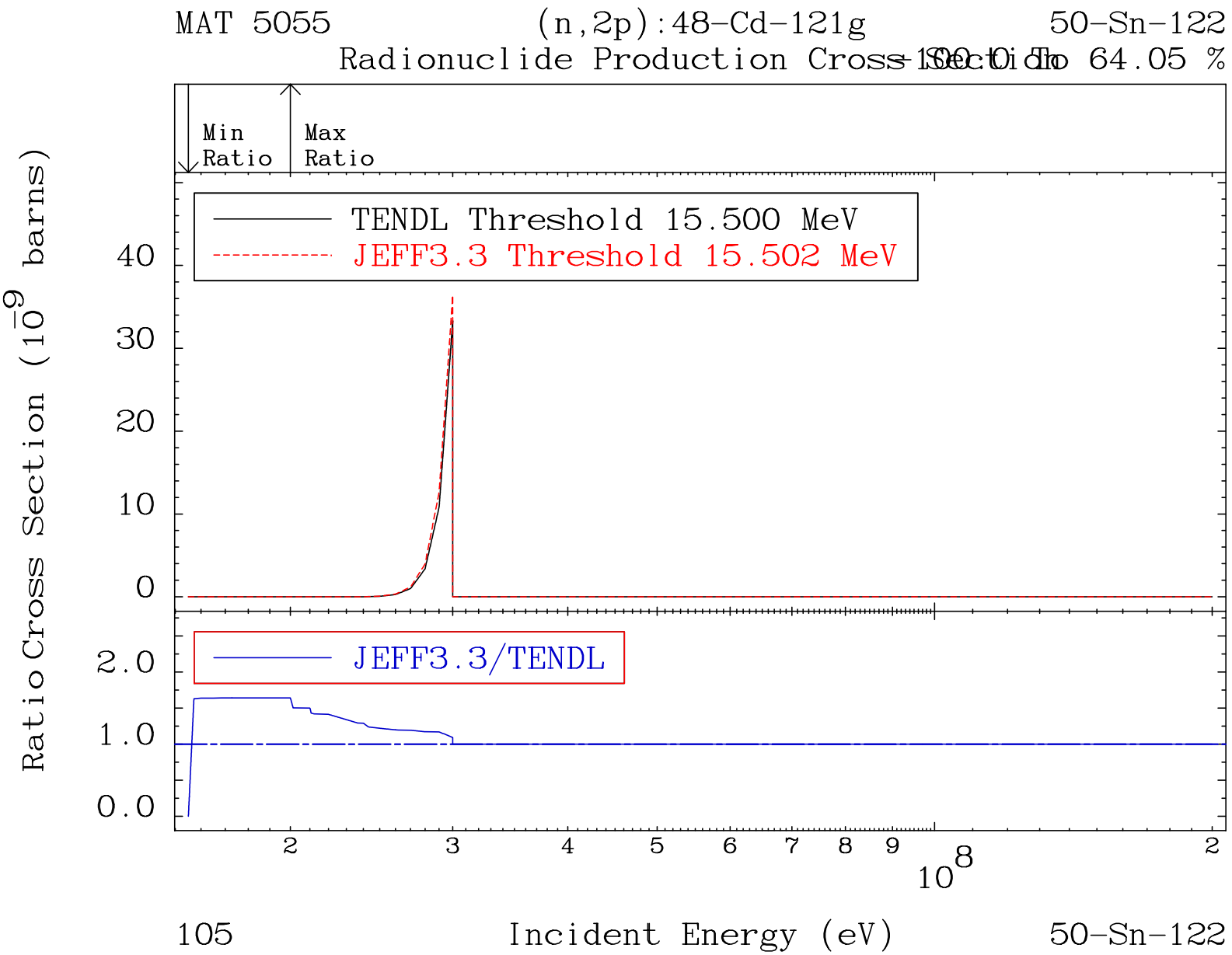

MAT 5055
(n,t):49-In-120g
50-Sn-122
Radionuclide Production Cross Section To 106.1 %
Min Ratio
Max Ratio
TENDL Threshold 11.182 MeV
JEFF3.3 Threshold 11.182 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
100
Incident Energy (eV)
50-Sn-122

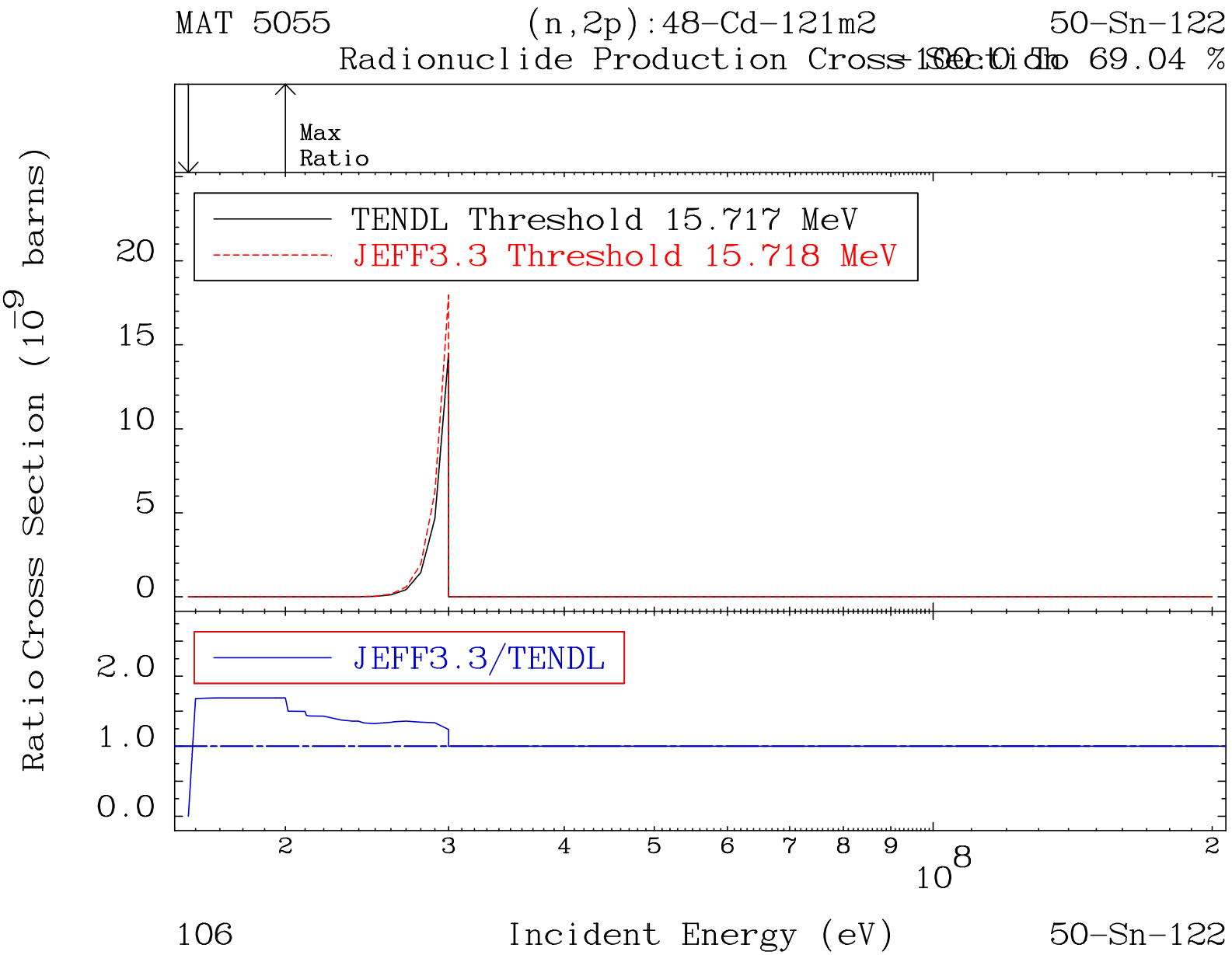

MAT 5055
(n,t):49-In-120m1
50-Sn-122
Radionuclide Production Cross Section To 1.968 %
Max
Ratio
TENDL Threshold 11.253 MeV
JEFF3.3 Threshold 11.253 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
101
Incident Energy (eV)
50-Sn-122

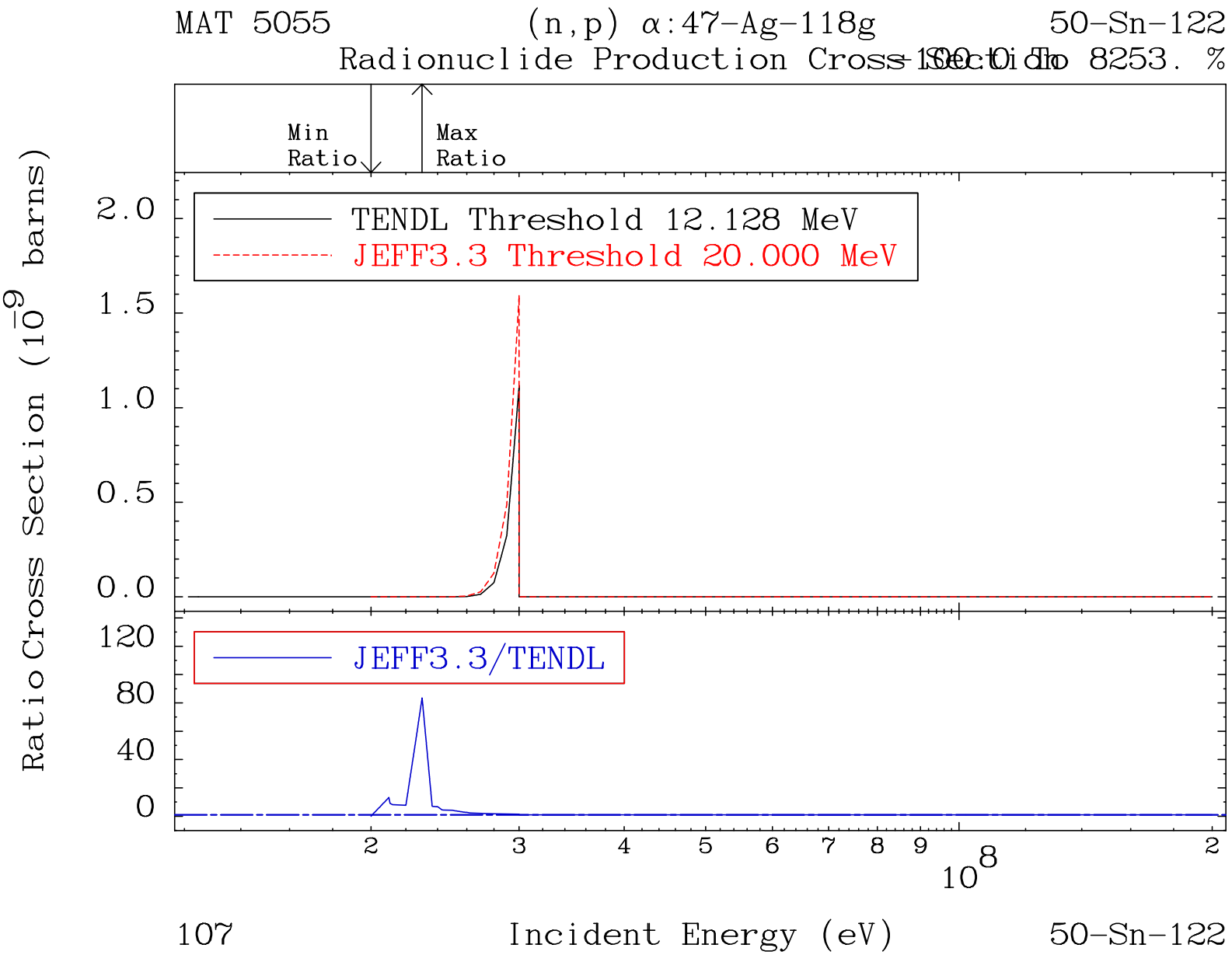

MAT 5055
(n,t):49-In-120m2
50-Sn-122
Radionuclide Production Cross Section To 19.93 %
Min Ratio
Max Ratio
TENDL Threshold 11.586 MeV
JEFF3.3 Threshold 11.586 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
700
600
500
400
300
200
100
0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
102
Incident Energy (eV)
50-Sn-122

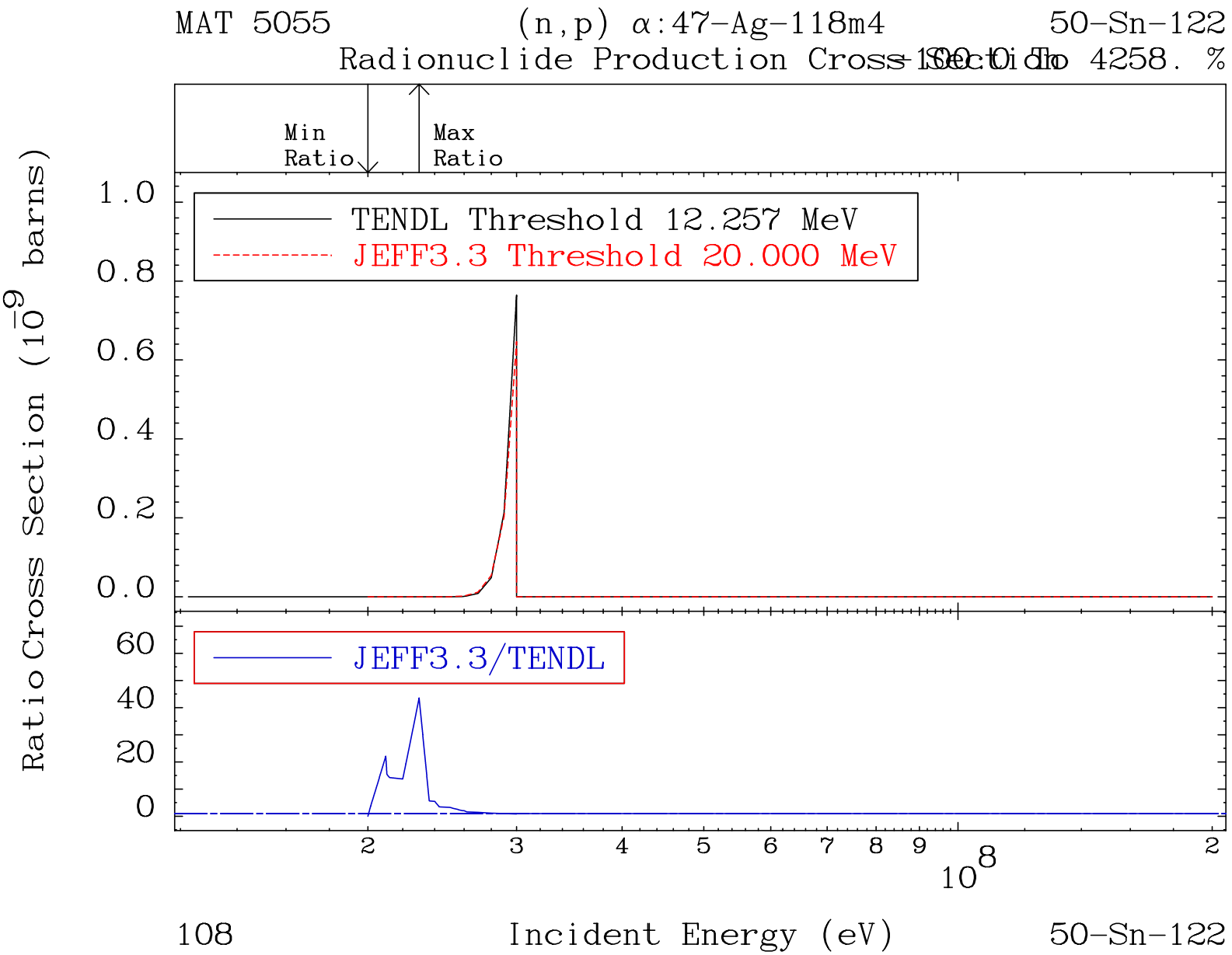

MAT 5055
(n,α):48-Cd-119g
50-Sn-122
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 319.23 keV
JEFF3.3 Threshold 320.65 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
200
100
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
103
Incident Energy (eV)
50-Sn-122


MAT 5055
(n,α):48-Cd-119m2
50-Sn-122
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.8000 MeV
JEFF3.3 Threshold 3.4000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
104
50-Sn-122


MAT 5055
(n,2p):48-Cd-121g
50-Sn-122
Radionuclide Production Cross Section To 64.05 %
Min Ratio
Max Ratio
TENDL Threshold 15.500 MeV
JEFF3.3 Threshold 15.502 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
105
Incident Energy (eV)
50-Sn-122


MAT 5055
(n,2p):48-Cd-121m2
50-Sn-122
Radionuclide Production Cross Section To 69.04 %
Max
Ratio
TENDL Threshold 15.717 MeV
JEFF3.3 Threshold 15.718 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
20
15
10
5
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
106
Incident Energy (eV)
50-Sn-122


MAT 5055
(n,p) α:47-Ag-118g
50-Sn-122
Radionuclide Production Cross Section To 8253. %
Min Ratio
Max Ratio
TENDL Threshold 12.128 MeV
JEFF3.3 Threshold 20.000 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
2.0
1.5
1.0
0.5
0.0
120
80
40
0
2
3
4
5
6
7
8
9
10^8
2
107
Incident Energy (eV)
50-Sn-122


MAT 5055
(n,p) α:47-Ag-118m4
50-Sn-122
Radionuclide Production Cross Section To 4258. %
Min Ratio
Max Ratio
TENDL Threshold 12.257 MeV
JEFF3.3 Threshold 20.000 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
1.0
0.8
0.6
0.4
0.2
0.0
60
40
20
0
2
3
4
5
6
7
8
9
2
10^8
108
Incident Energy (eV)
50-Sn-122