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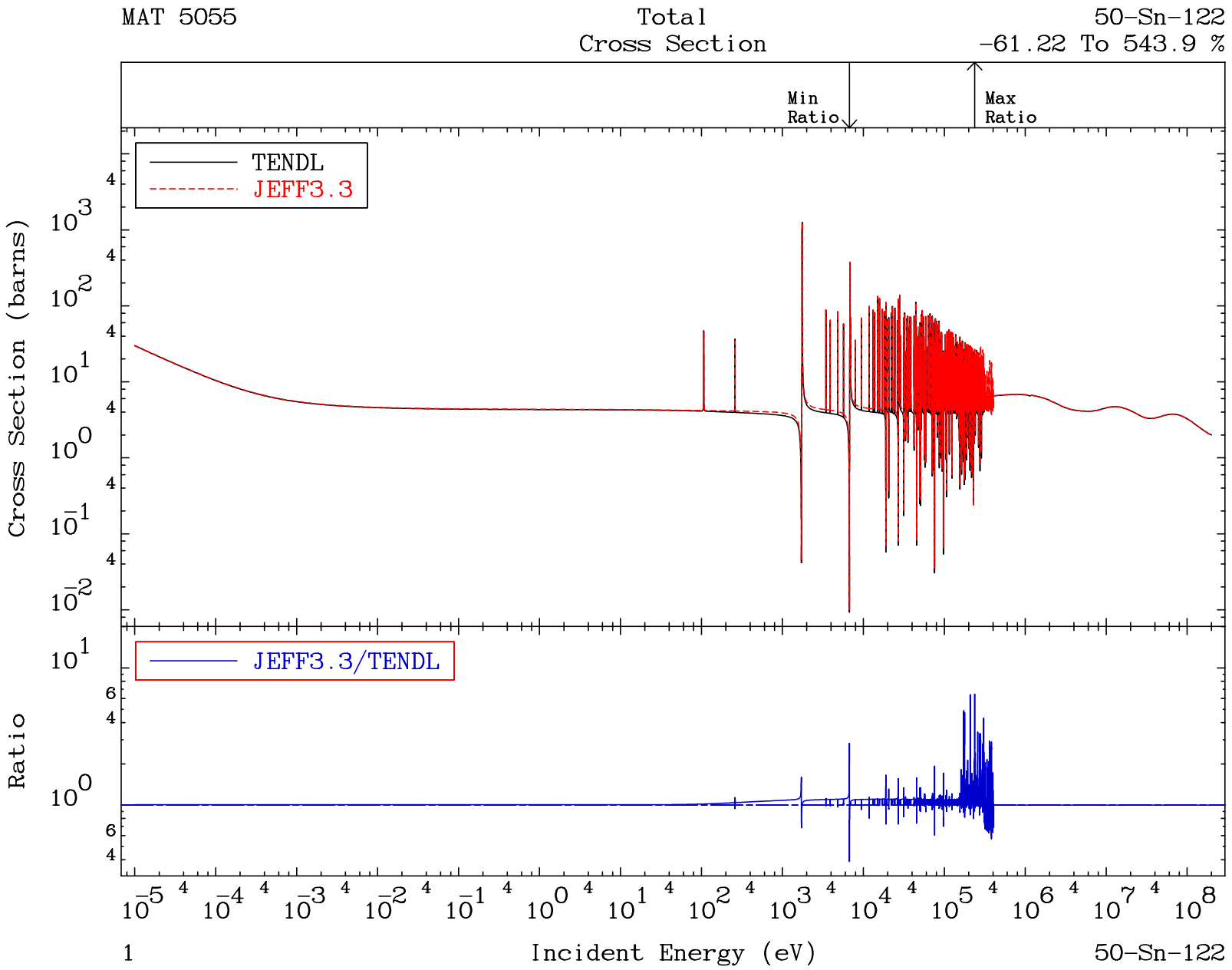
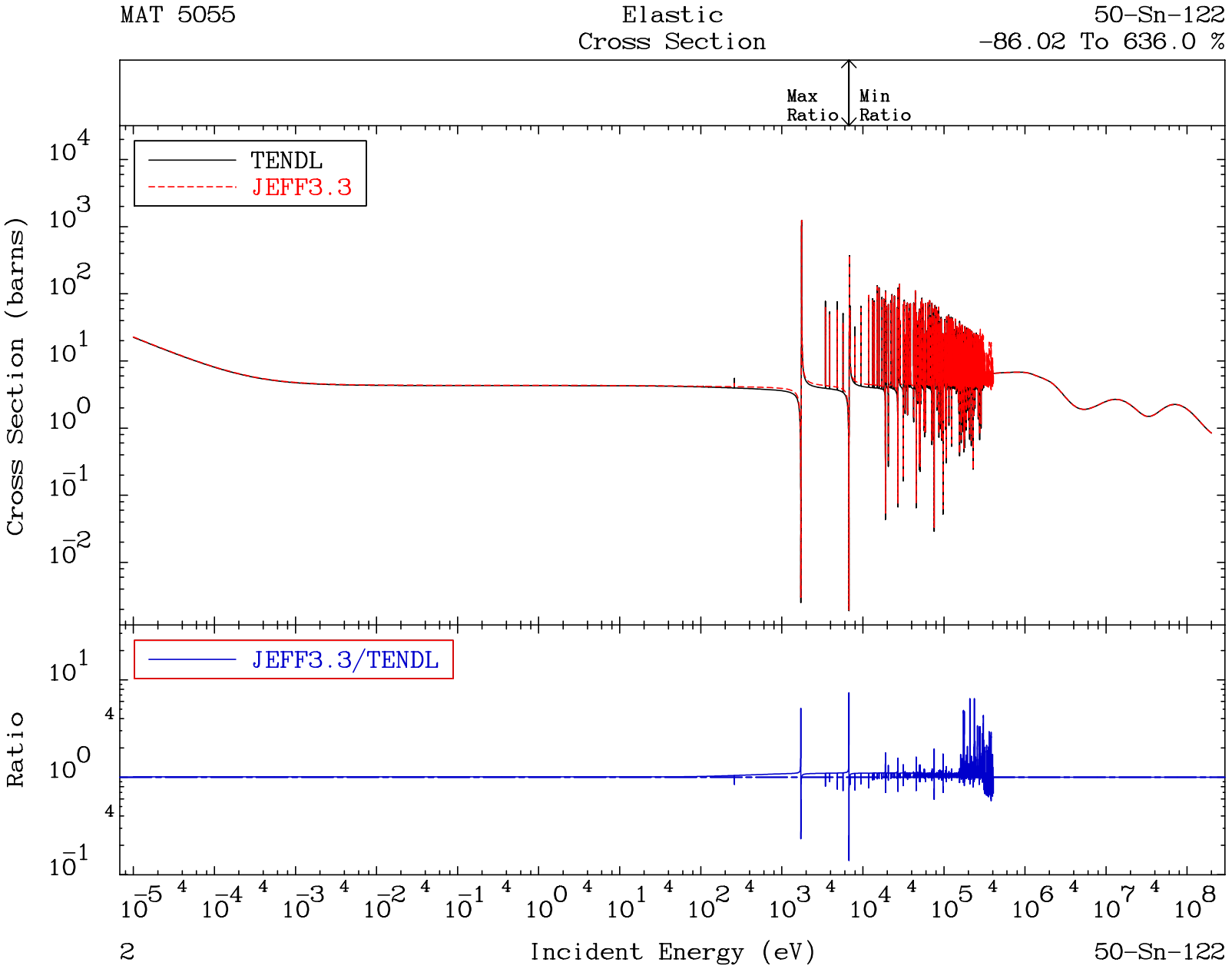
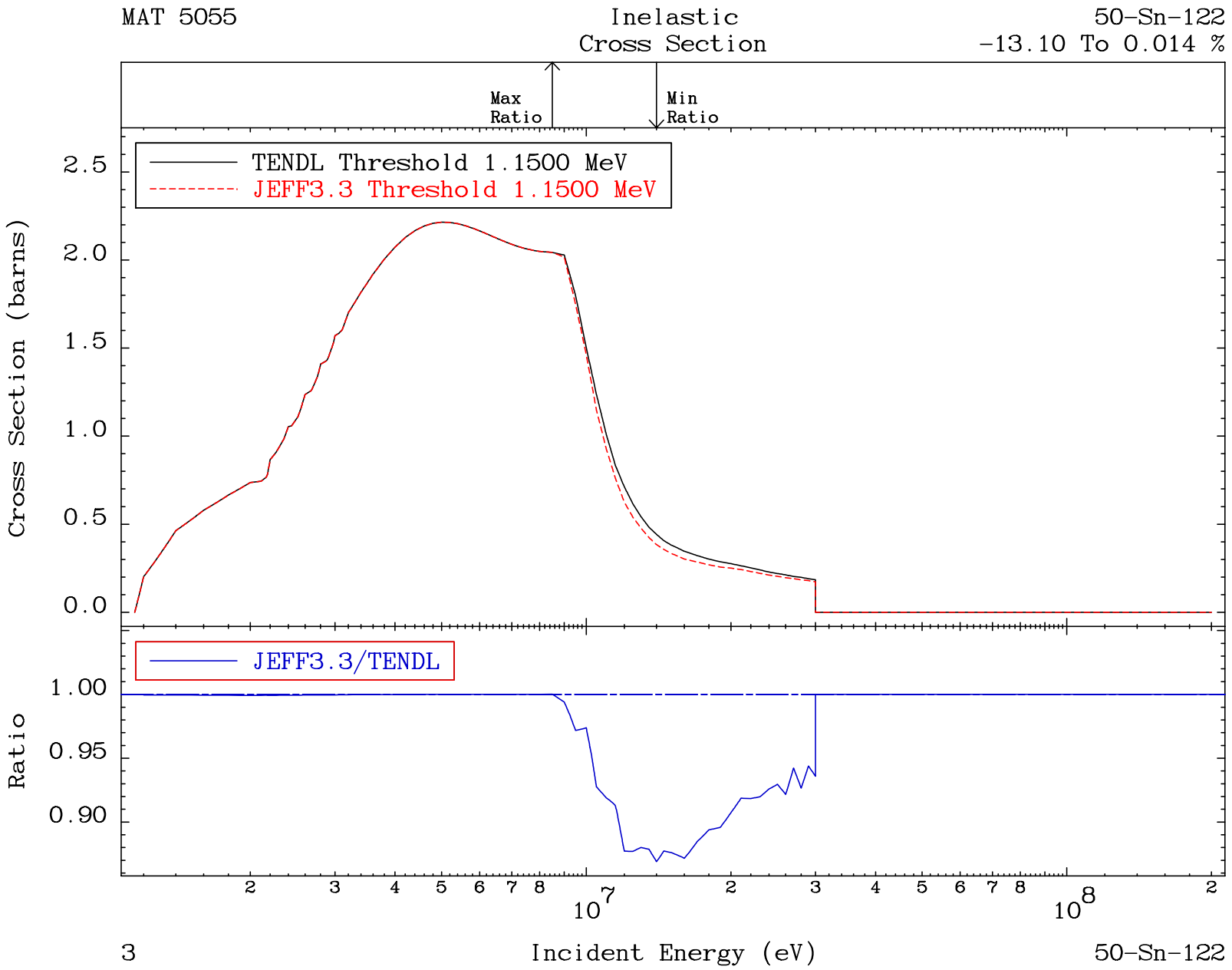
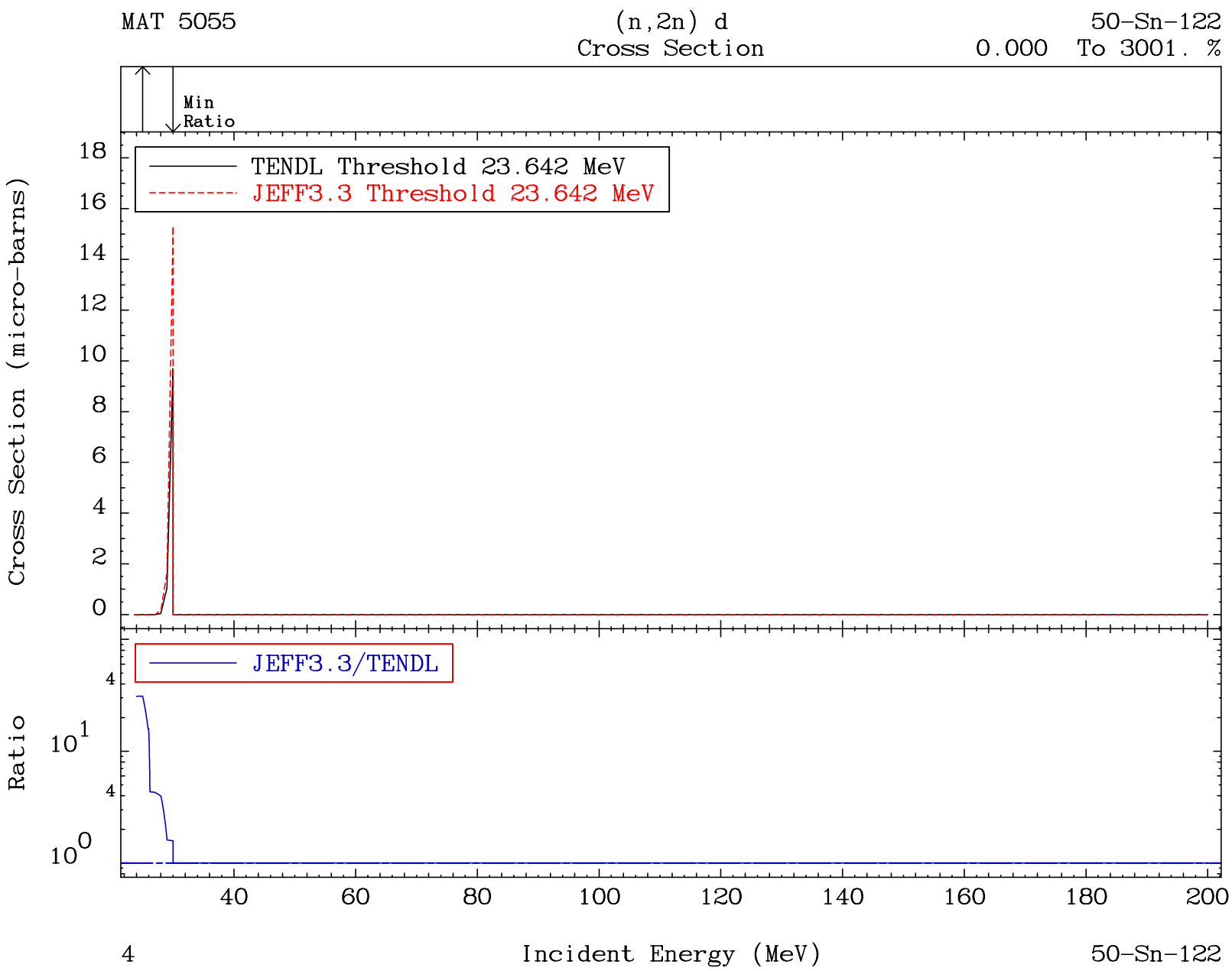
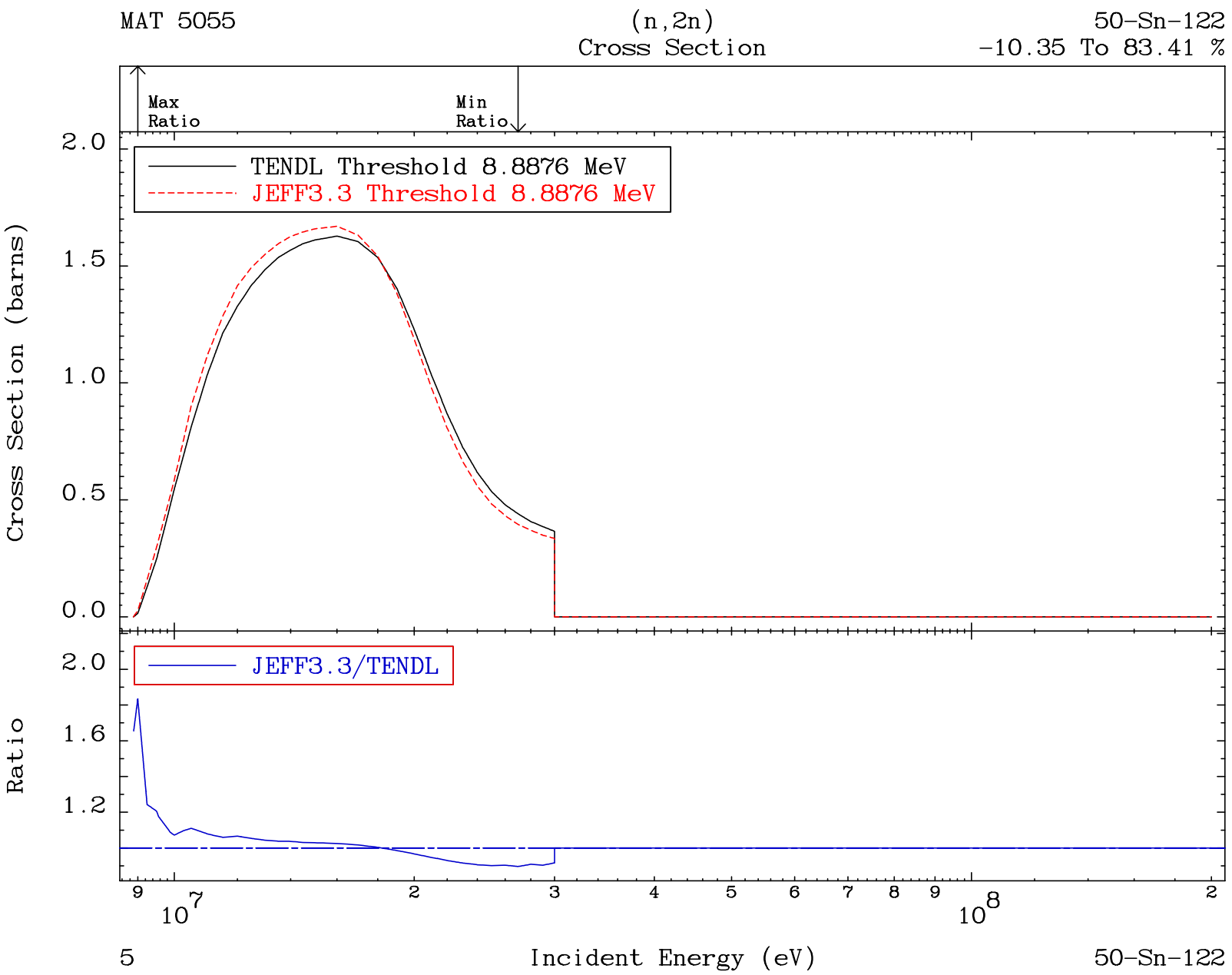
Press Mouse Button to Start

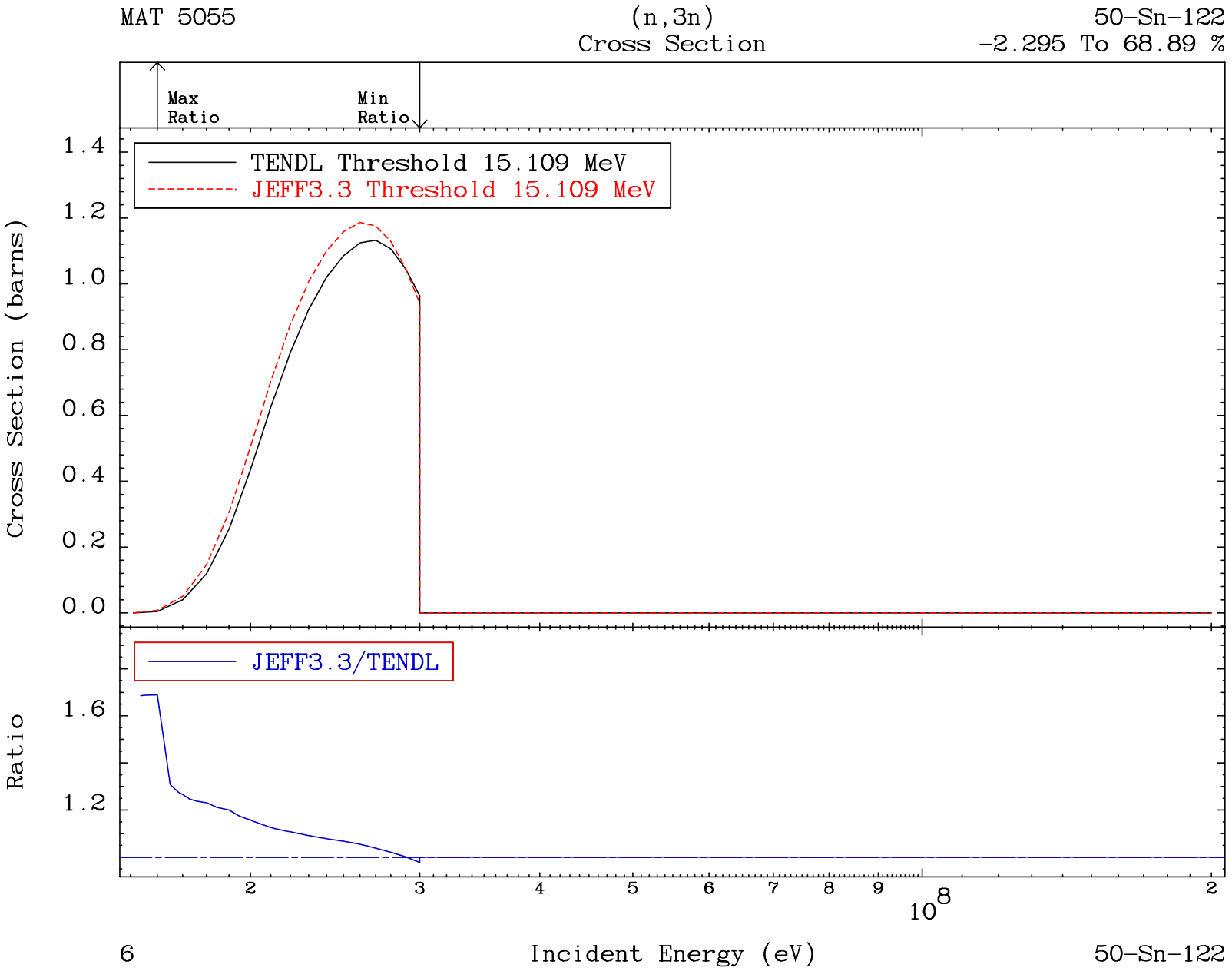

MAT 5055
Total
Cross Section
50-Sn-122
-61.22 To 543.9 %
Min
Ratio
Max
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
1
50-Sn-122

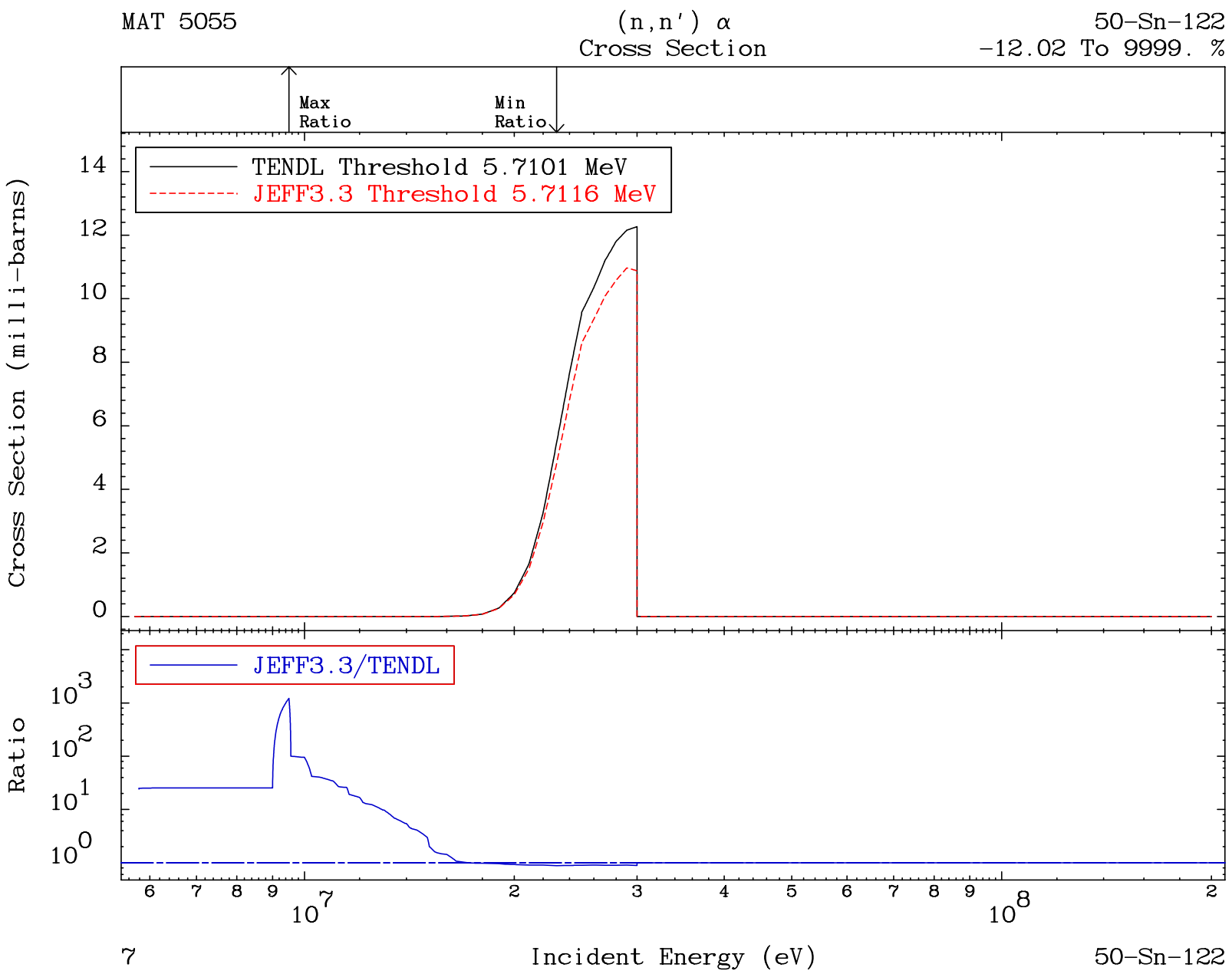

MAT 5055
Elastic
Cross Section
50-Sn-122
-86.02 To 636.0 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
2
50-Sn-122

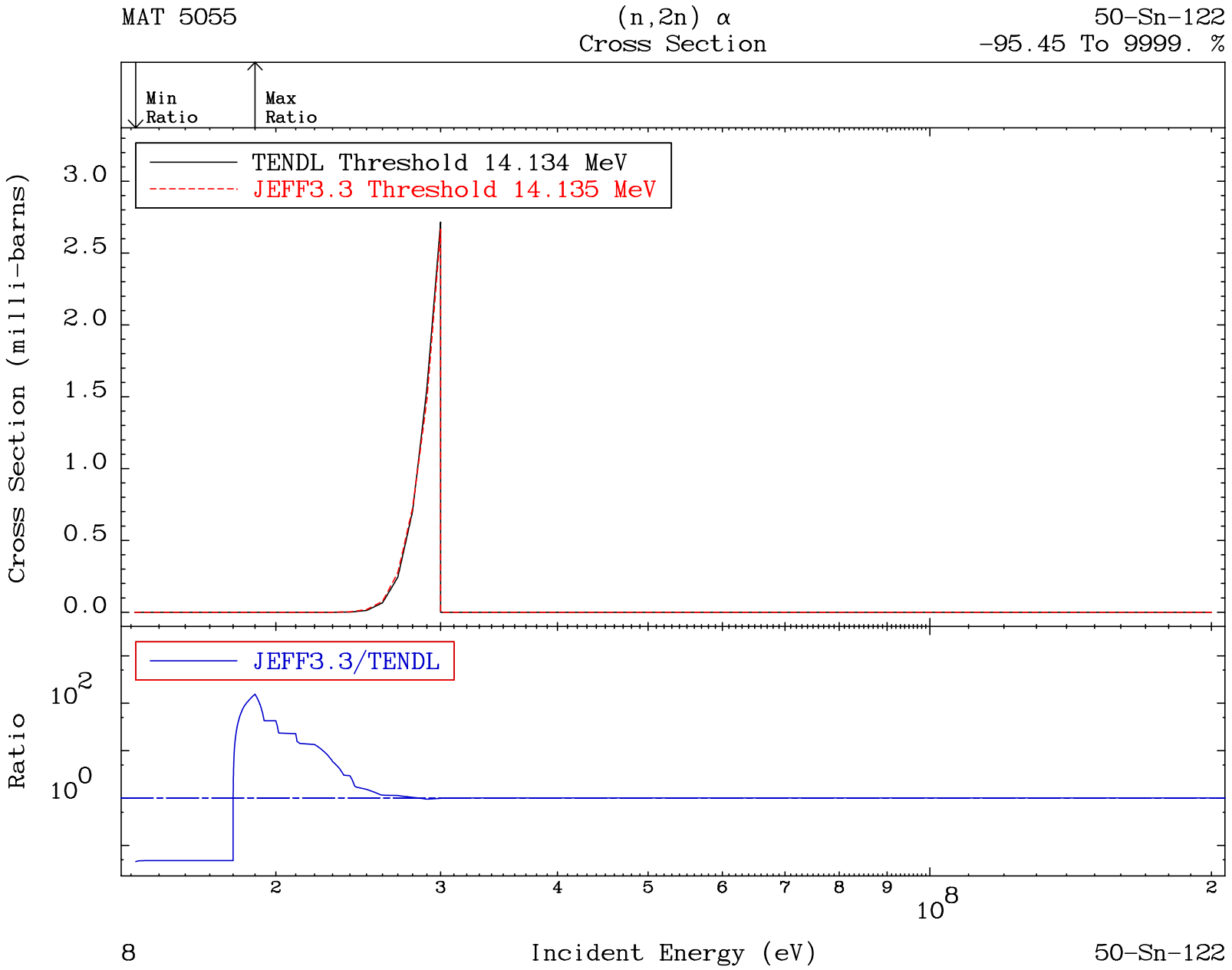

MAT 5055
Inelastic
Cross Section
50-Sn-122
-13.10 To 0.014 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.1500 MeV
JEFF3.3 Threshold 1.1500 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
50-Sn-122

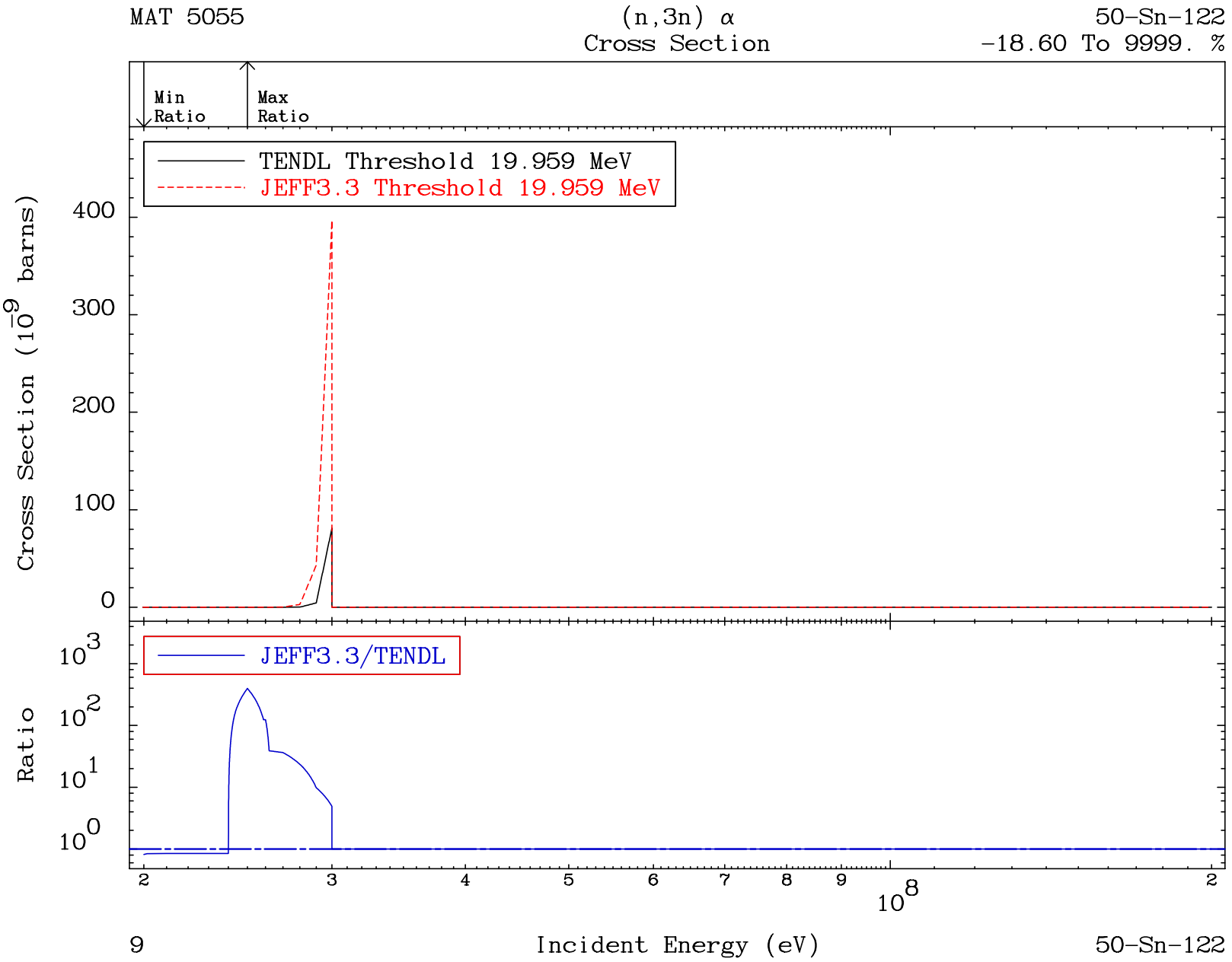

MAT 5055
(n,2n) d
Cross Section
50-Sn-122
0.000 To 3001. %
Min
Ratio
TENDL Threshold 23.642 MeV
JEFF3.3 Threshold 23.642 MeV
JEFF3.3/TENDL
Cross Section (micro-barns)
Ratio
Incident Energy (MeV)
4
50-Sn-122

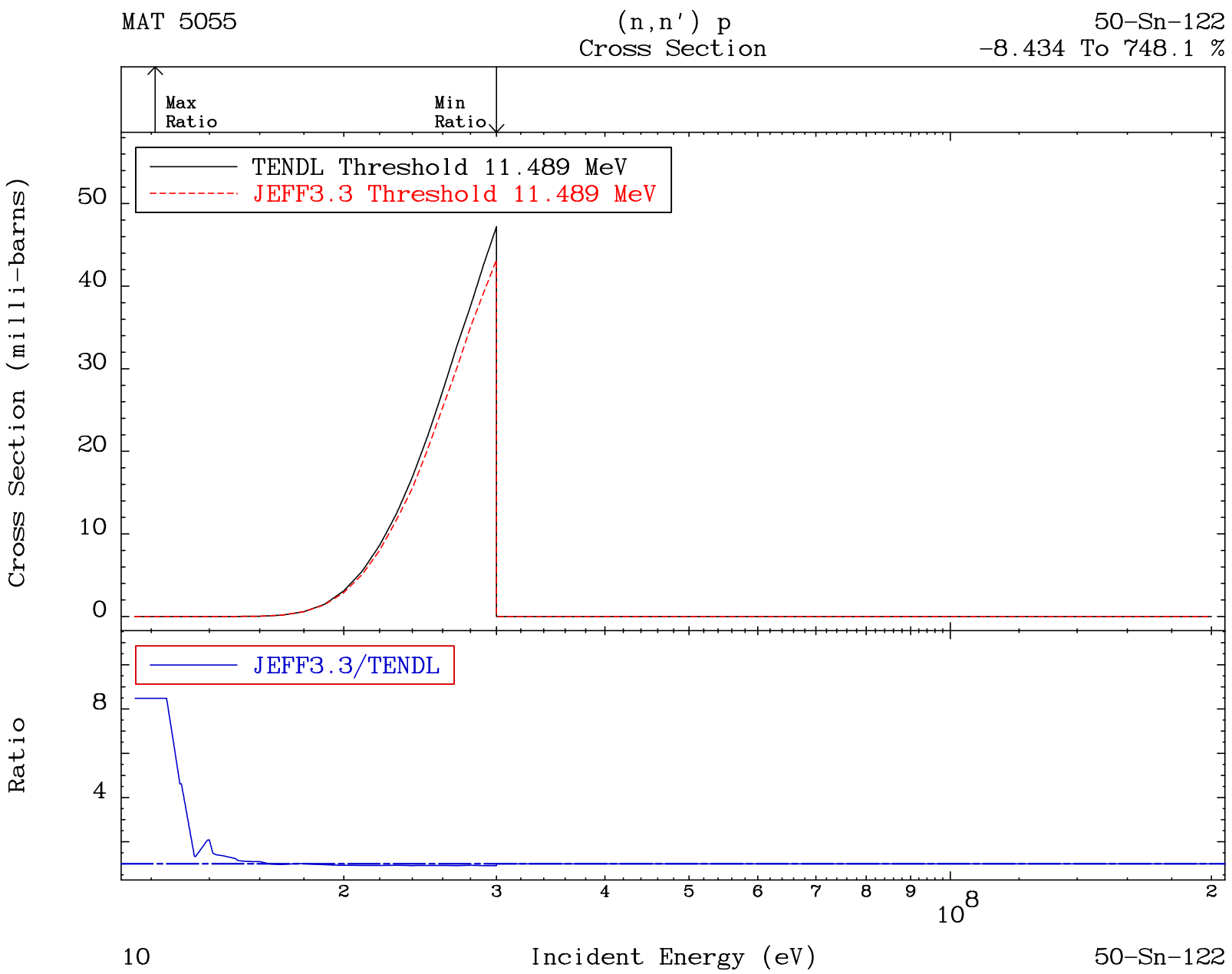

MAT 5055
(n,2n)
Cross Section
50-Sn-122
-10.35 To 83.41 %
Max Ratio
Min Ratio
TENDL Threshold 8.8876 MeV
JEFF3.3 Threshold 8.8876 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
50-Sn-122

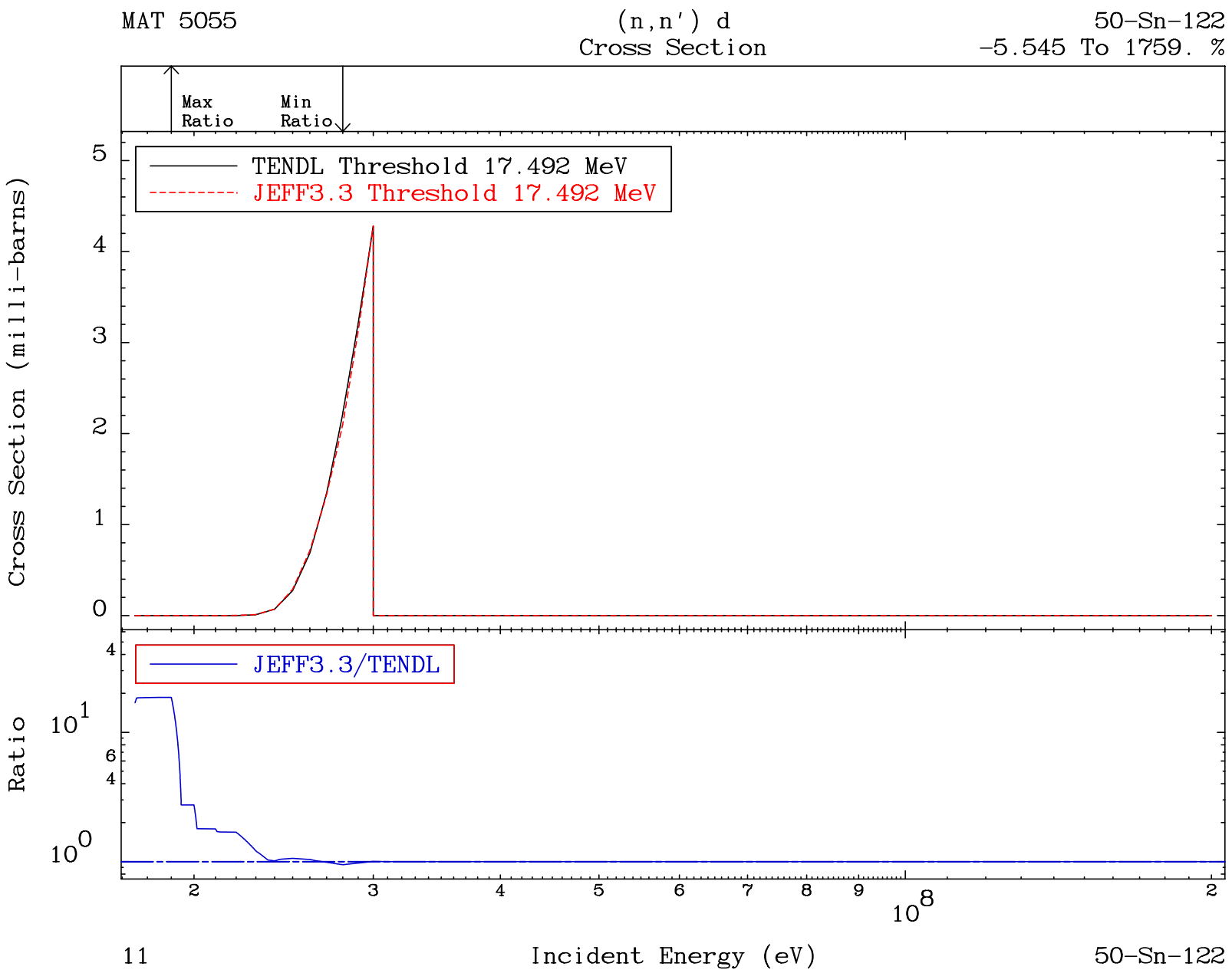

MAT 5055
(n,3n)
Cross Section
50-Sn-122
-2.295 To 68.89 %
Max Ratio
Min Ratio
TENDL Threshold 15.109 MeV
JEFF3.3 Threshold 15.109 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
50-Sn-122

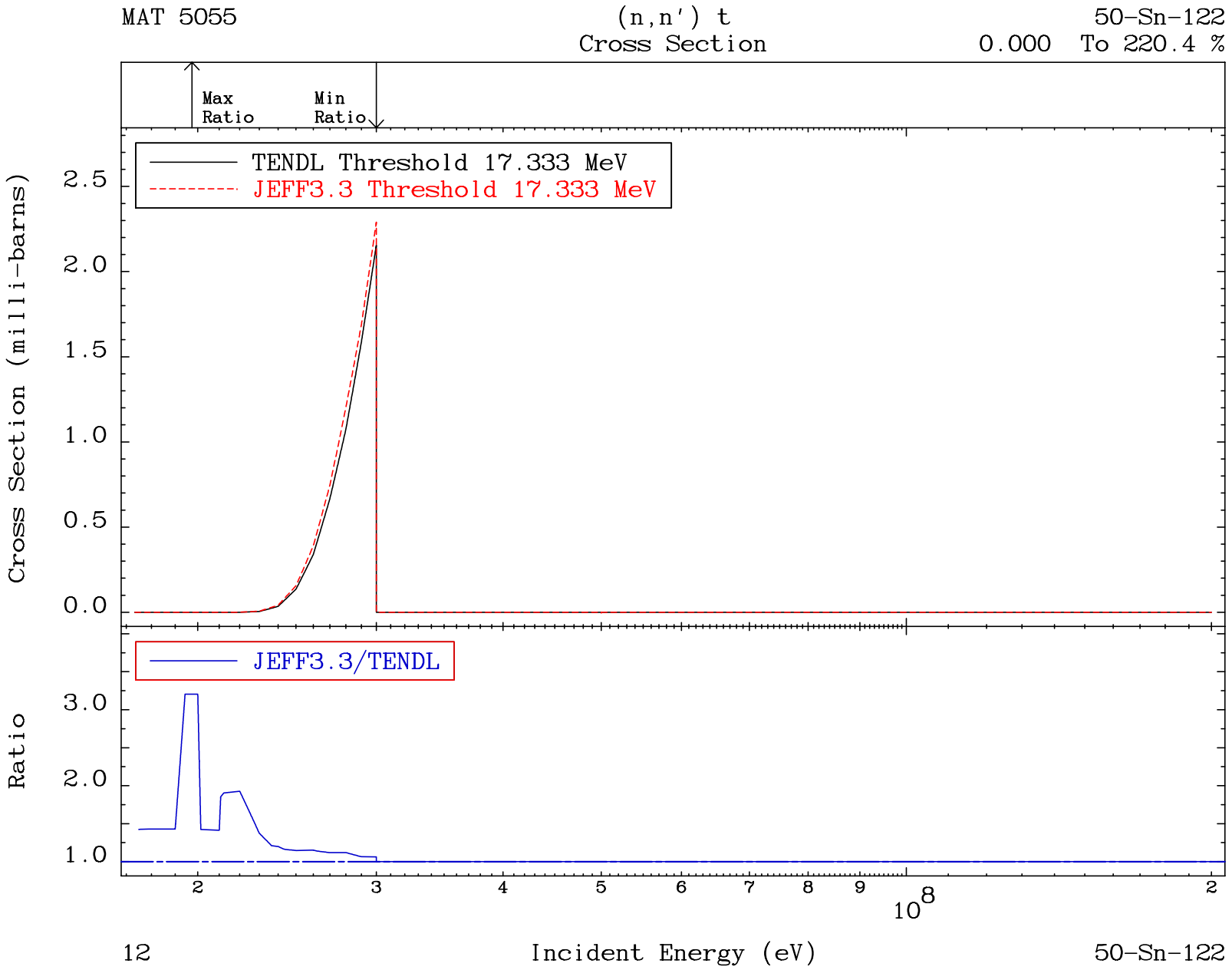

MAT 5055
(n,n') α
Cross Section
50-Sn-122
-12.02 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.7101 MeV
JEFF3.3 Threshold 5.7116 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
7
50-Sn-122

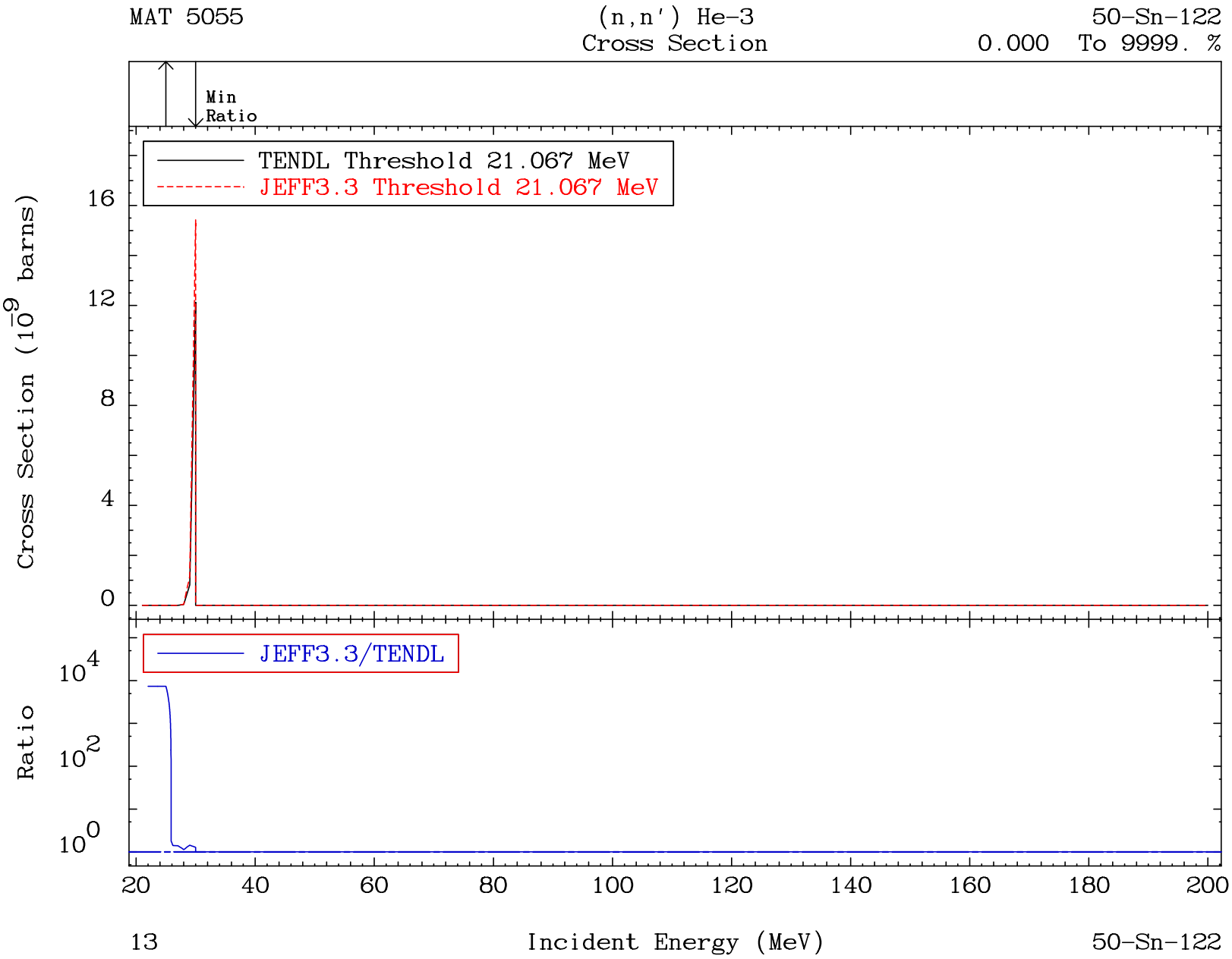

MAT 5055
(n,2n) α
Cross Section
50-Sn-122
-95.45 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 14.134 MeV
JEFF3.3 Threshold 14.135 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
50-Sn-122

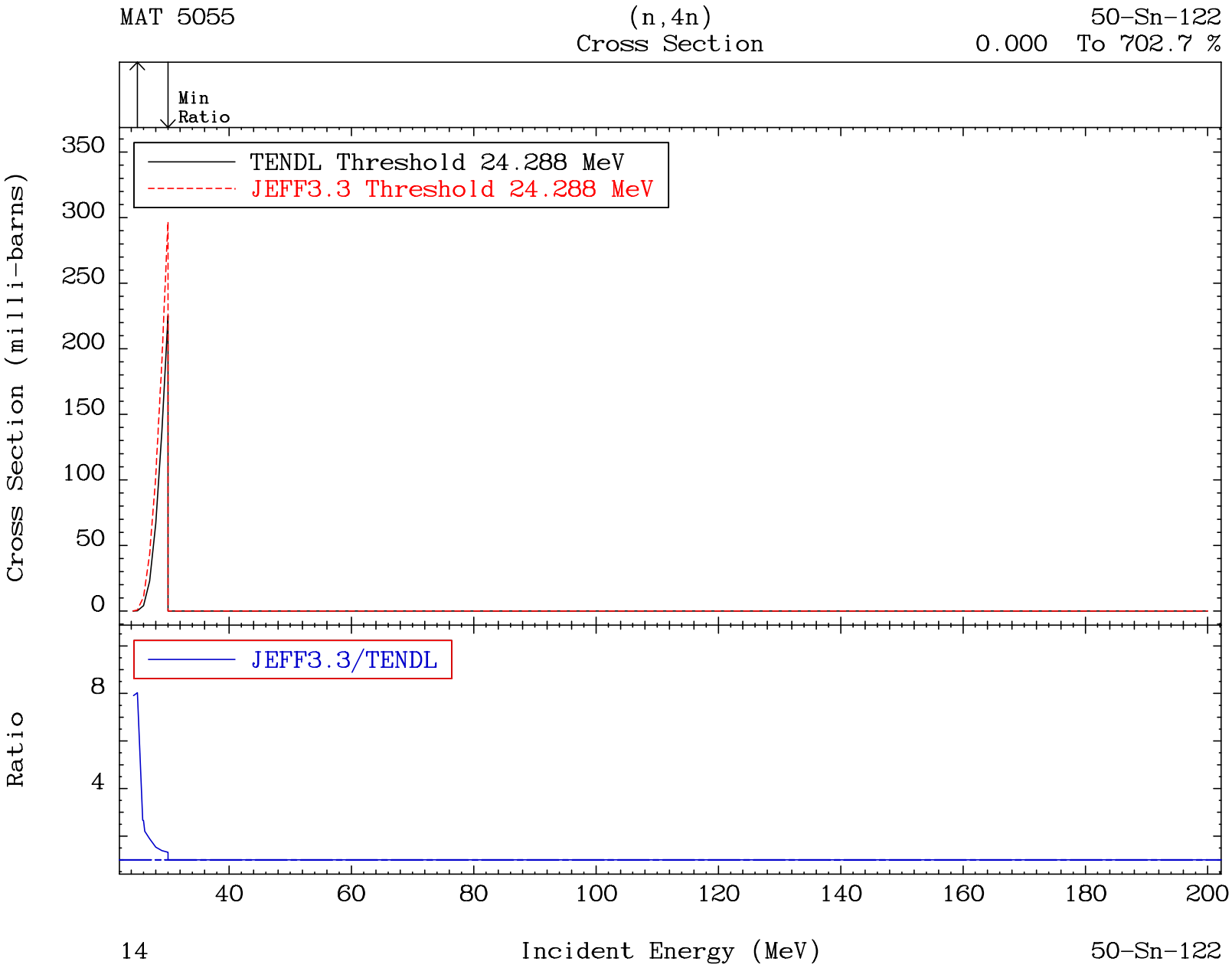

MAT 5055
(n,3n) α
Cross Section
50-Sn-122
-18.60 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 19.959 MeV
JEFF3.3 Threshold 19.959 MeV
Cross Section (10^{-9} barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
50-Sn-122

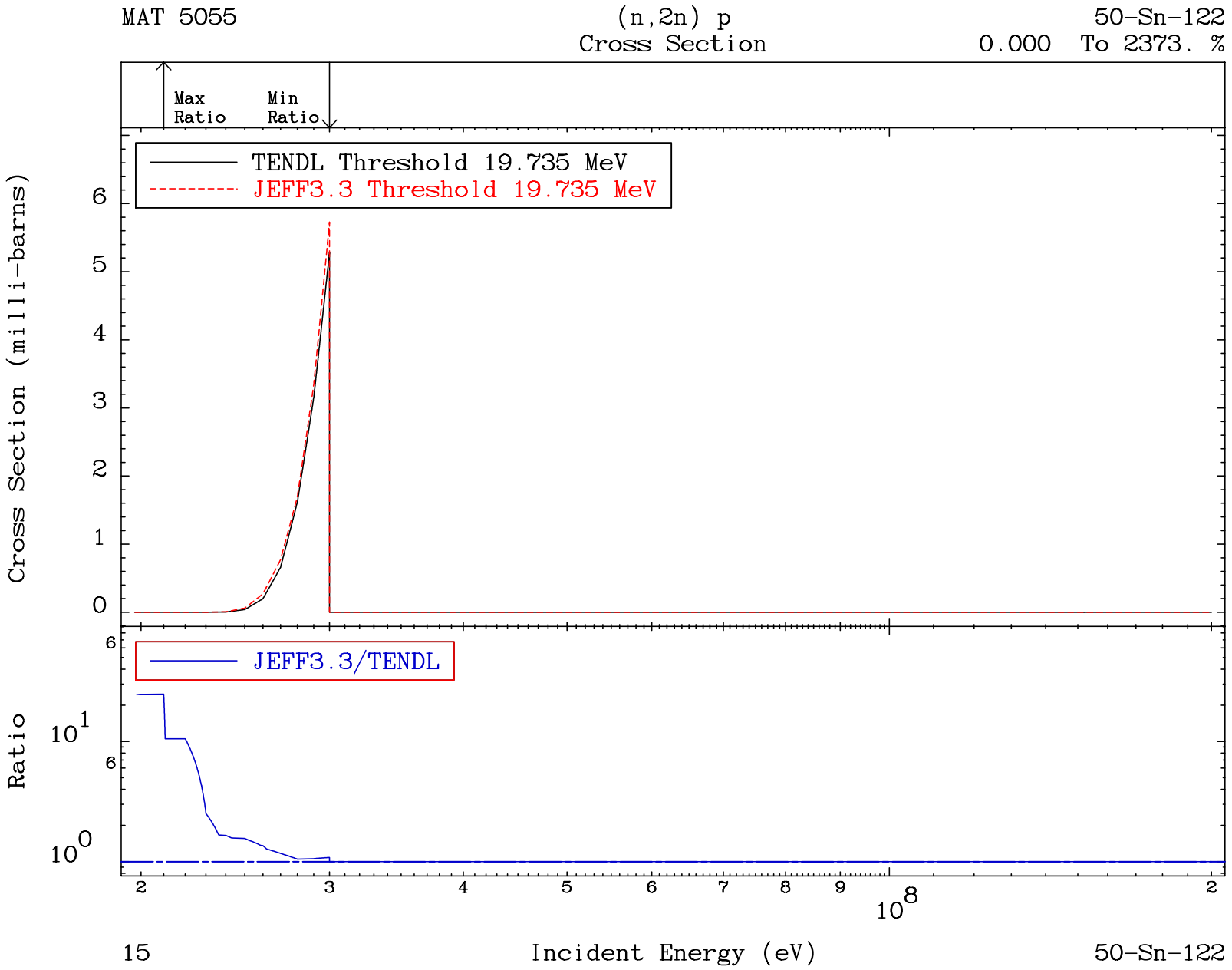

MAT 5055
(n,n') p
Cross Section
50-Sn-122
-8.434 To 748.1 %
Max Ratio
Min Ratio
TENDL Threshold 11.489 MeV
JEFF3.3 Threshold 11.489 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
50-Sn-122

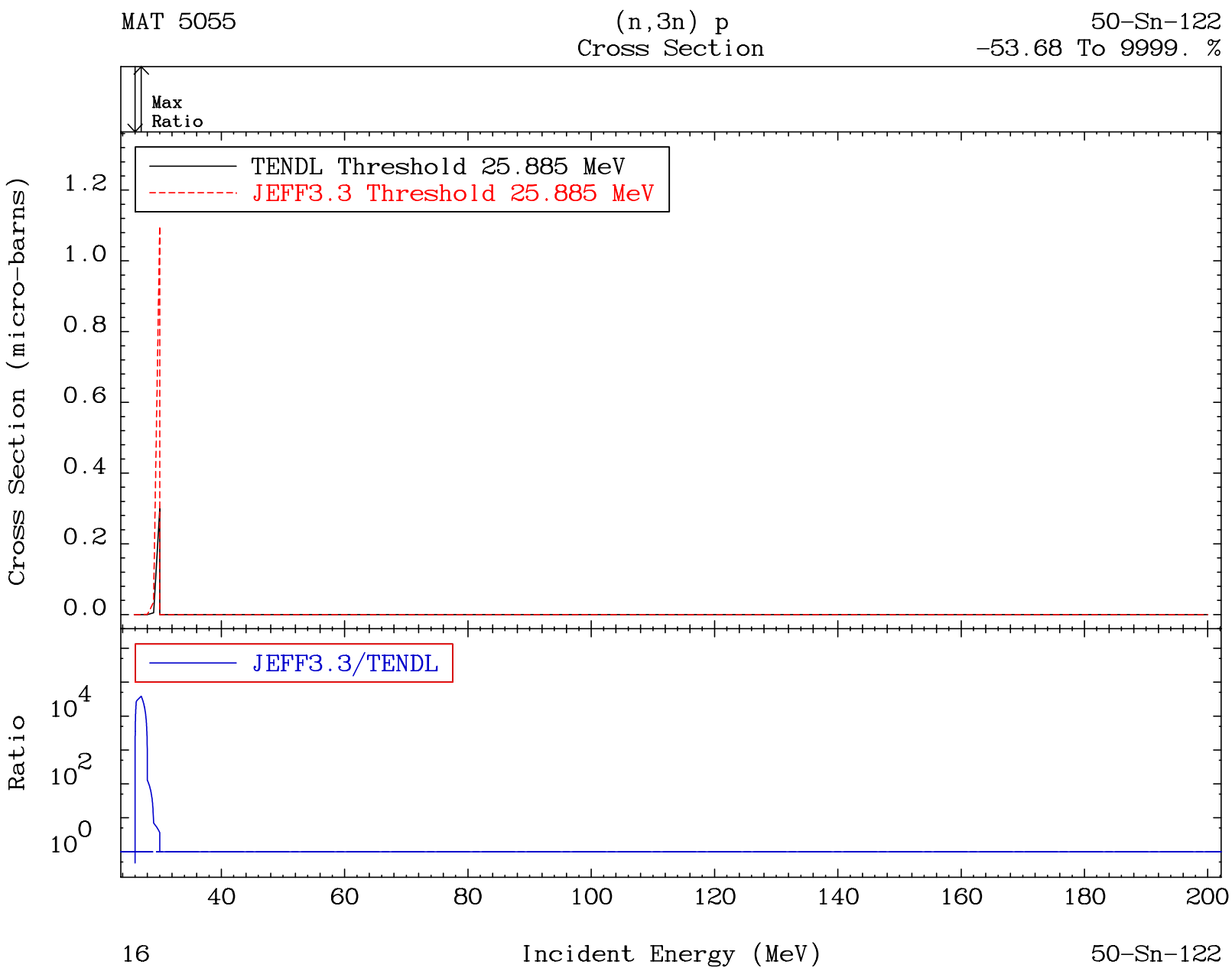

MAT 5055
(n,n') d
Cross Section
50-Sn-122
-5.545 To 1759. %
Max Ratio
Min Ratio
TENDL Threshold 17.492 MeV
JEFF3.3 Threshold 17.492 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
11
50-Sn-122

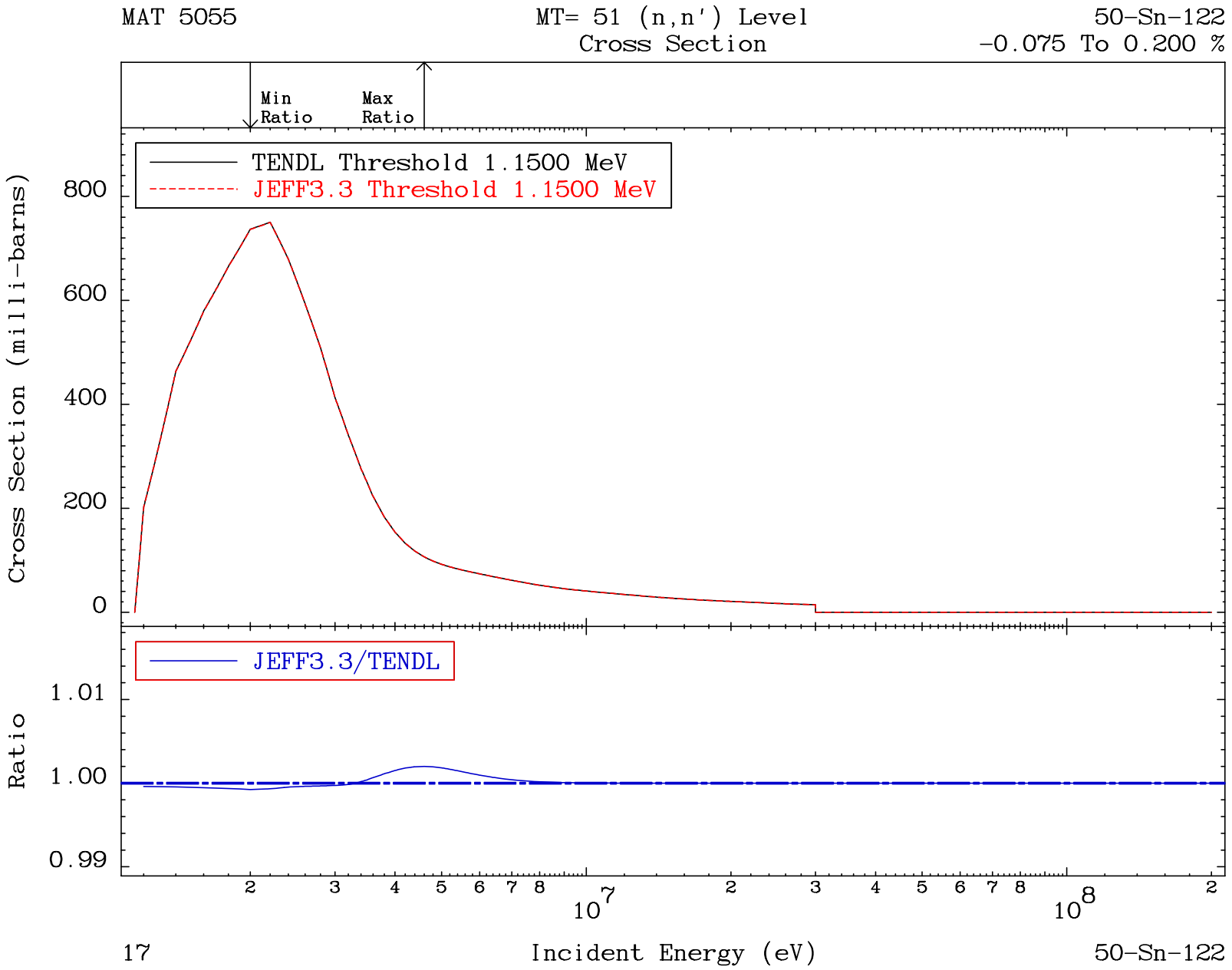

MAT 5055
(n,n') t
Cross Section
50-Sn-122
0.000 To 220.4 %
Max Ratio
Min Ratio
TENDL Threshold 17.333 MeV
JEFF3.3 Threshold 17.333 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
50-Sn-122

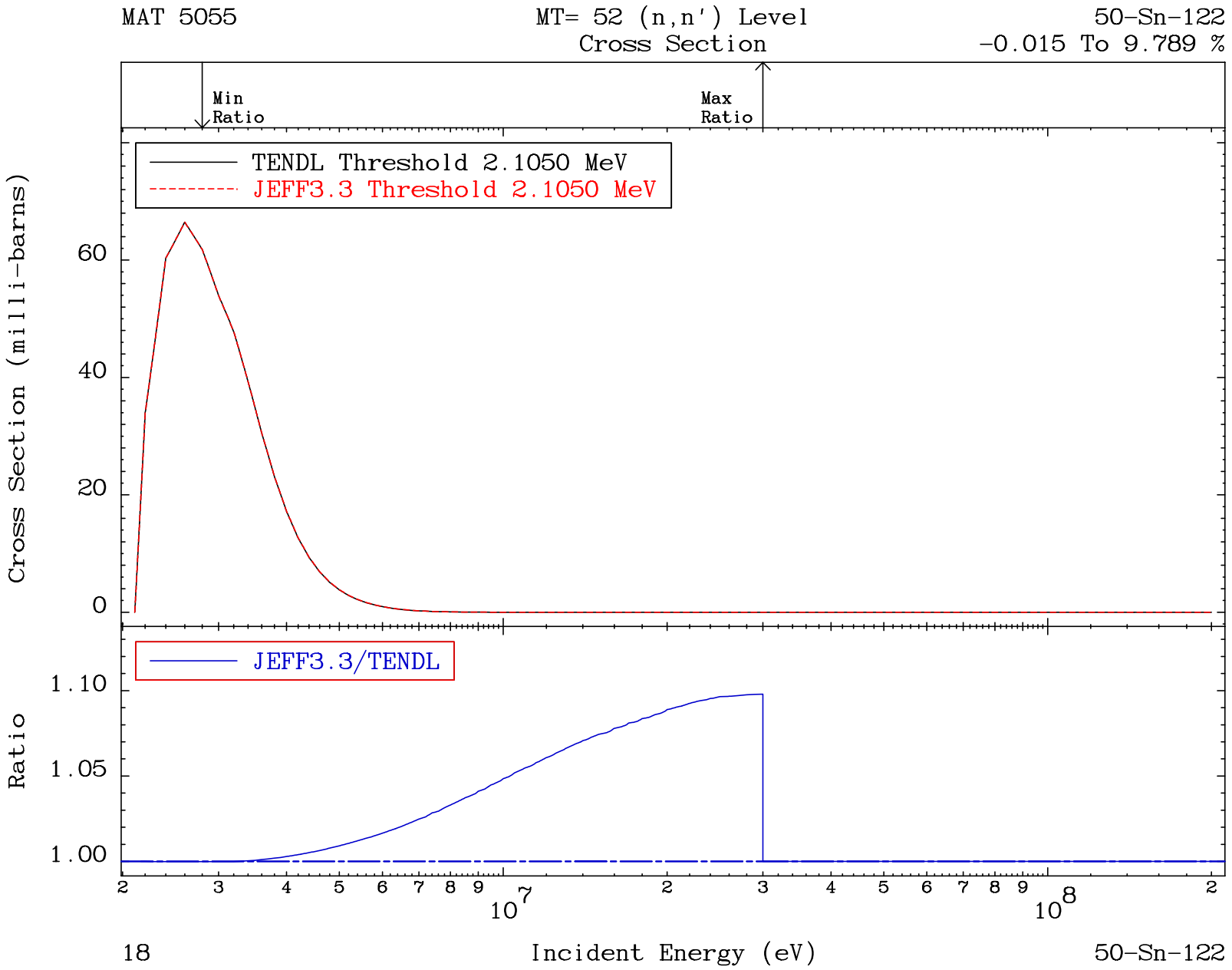

MAT 5055
(n,n') He-3
Cross Section
50-Sn-122
0.000 To 9999. %
Min
Ratio
TENDL Threshold 21.067 MeV
JEFF3.3 Threshold 21.067 MeV
Cross Section (10^{-9} barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
10^{4}
10^{2}
10^{0}
20
40
60
80
100
120
140
160
180
200
13
Incident Energy (MeV)
50-Sn-122

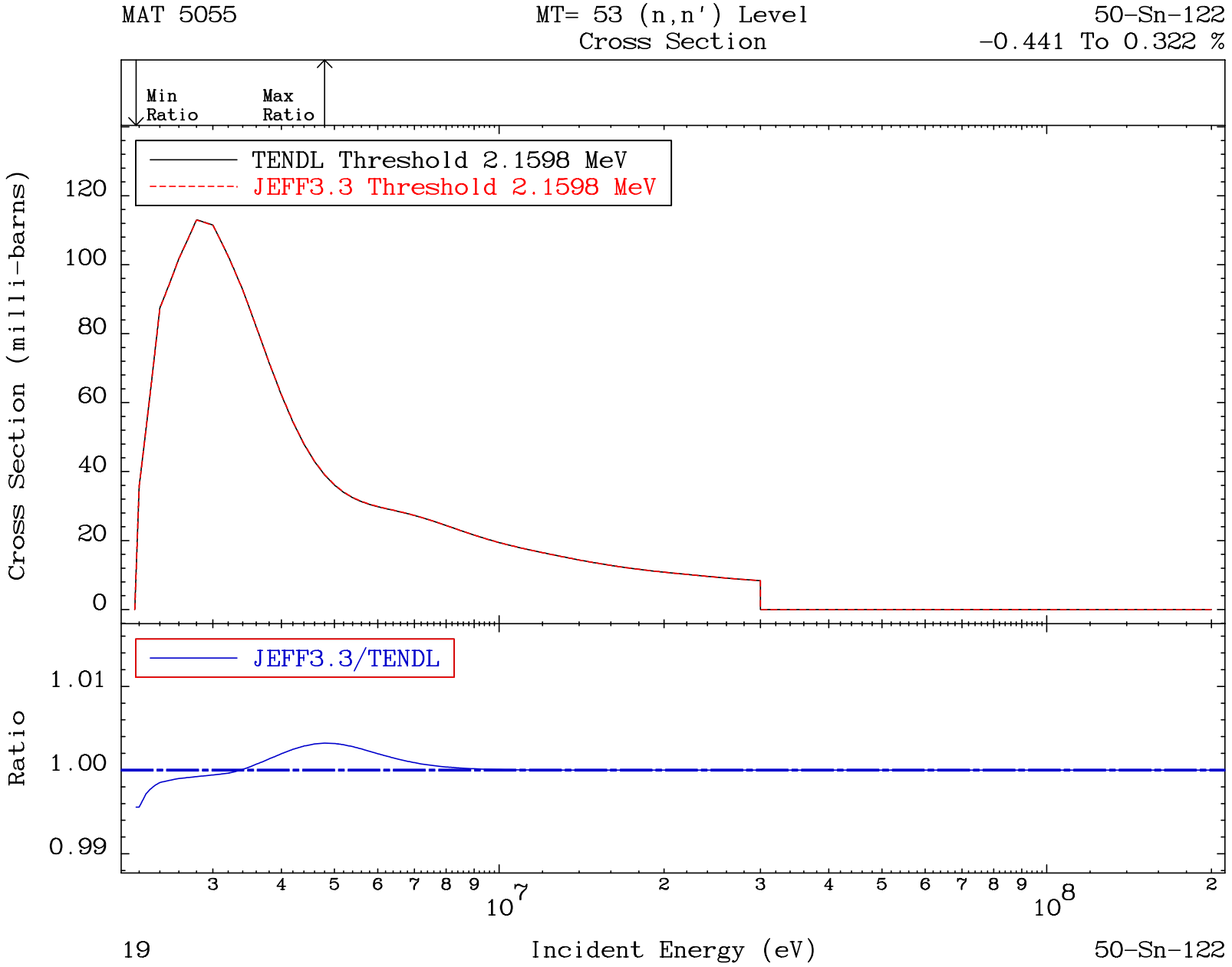

MAT 5055
(n,4n)
Cross Section
50-Sn-122
0.000 To 702.7 %
Min
Ratio
TENDL Threshold 24.288 MeV
JEFF3.3 Threshold 24.288 MeV
JEFF3.3/TENDL
Cross Section (milli-barns)
Ratio
Incident Energy (MeV)
14
50-Sn-122

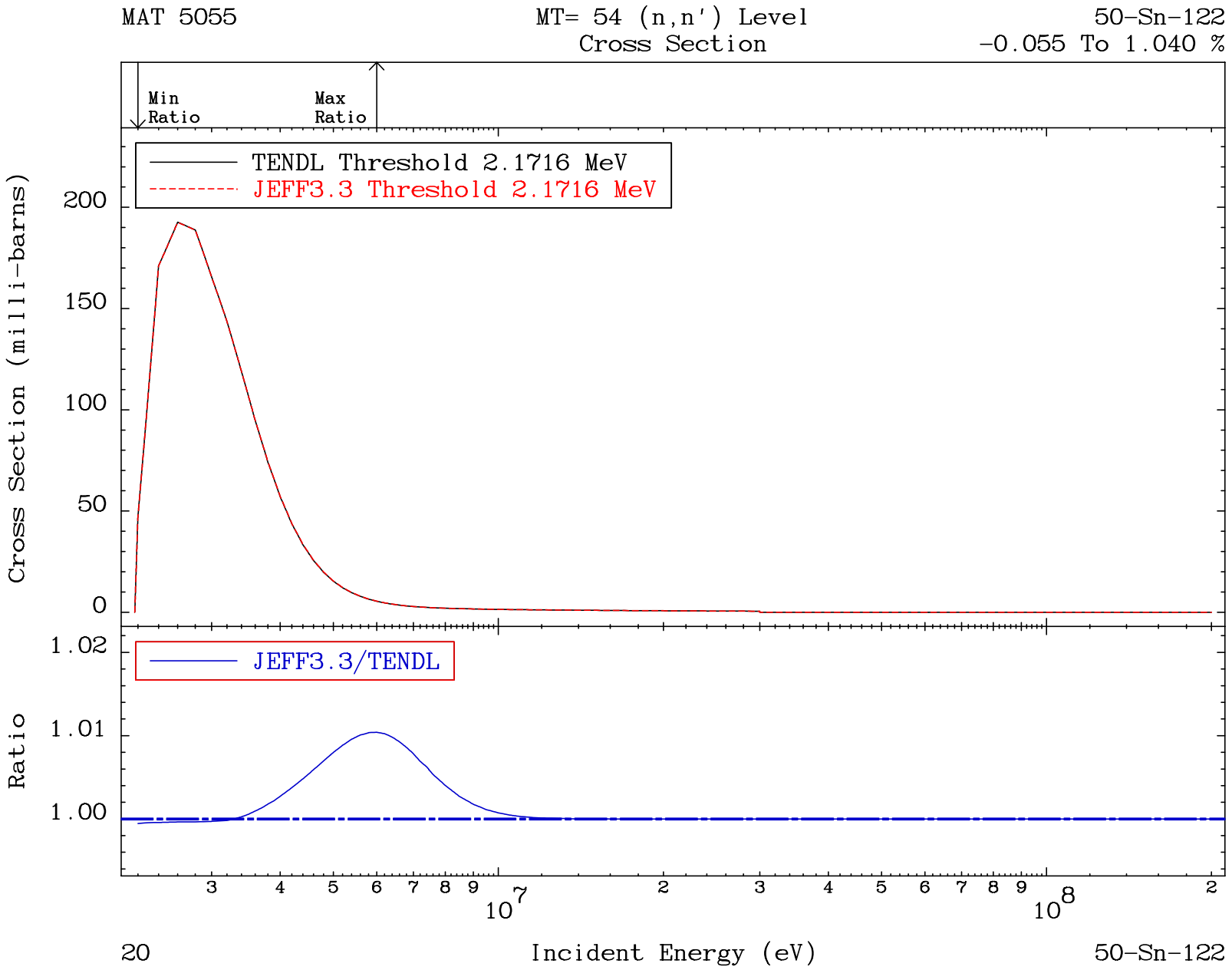

MAT 5055
(n,2n) p
Cross Section
50-Sn-122
0.000 To 2373. %
Max Ratio
Min Ratio
TENDL Threshold 19.735 MeV
JEFF3.3 Threshold 19.735 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
15
50-Sn-122

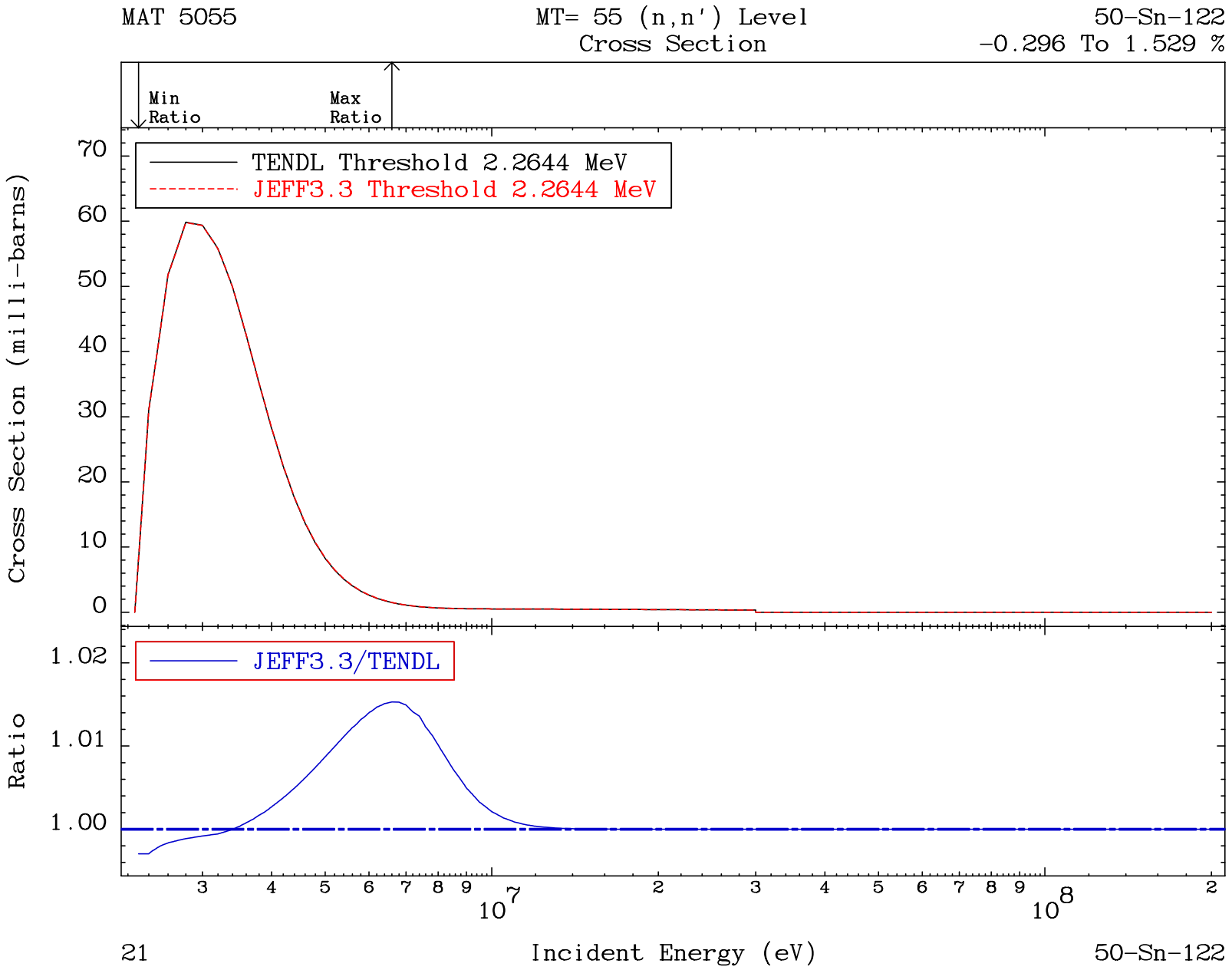

MAT 5055
(n,3n) p
Cross Section
50-Sn-122
-53.68 To 9999. %
Max
Ratio
TENDL Threshold 25.885 MeV
JEFF3.3 Threshold 25.885 MeV
Cross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
50-Sn-122

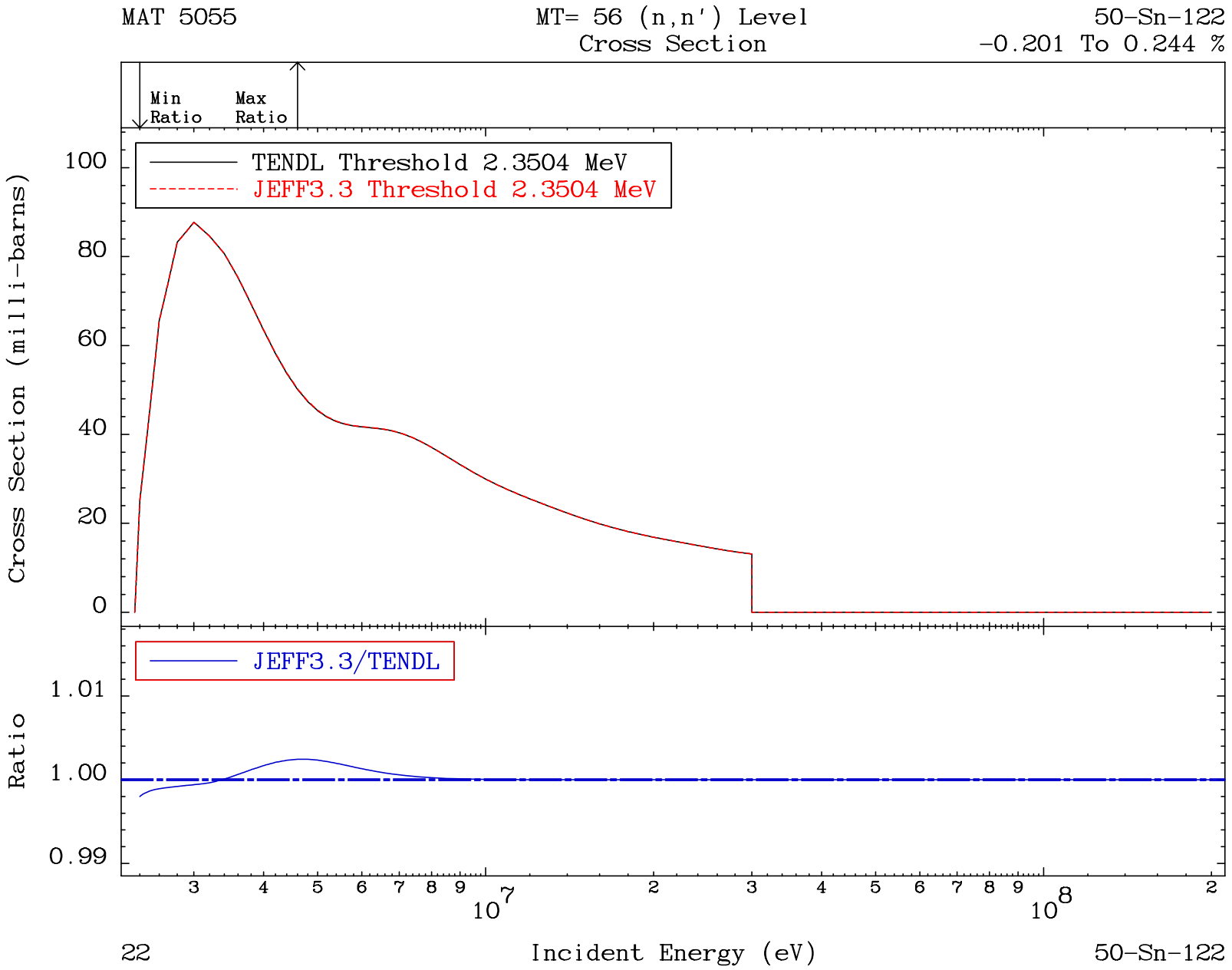

MAT 5055
MT= 51 (n,n') Level
Cross Section
50-Sn-122
-0.075 To 0.200 %
Min Ratio
Max Ratio
TENDL Threshold 1.1500 MeV
JEFF3.3 Threshold 1.1500 MeV
Cross Section (milli-barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
50-Sn-122

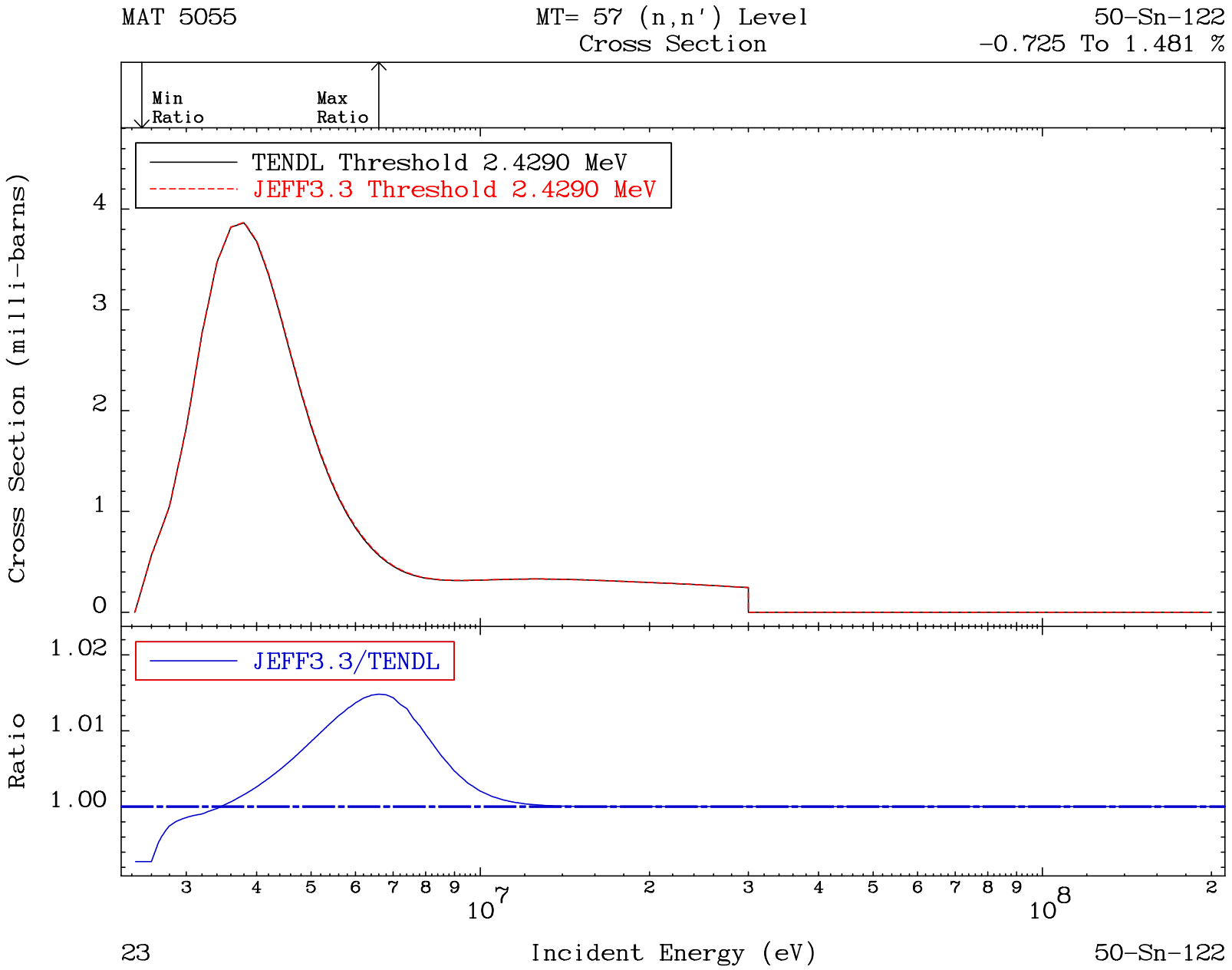

MAT 5055
MT= 52 (n,n') Level
Cross Section
50-Sn-122
-0.015 To 9.789 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.1050 MeV
JEFF3.3 Threshold 2.1050 MeV
Cross Section (milli-barns)
60
40
20
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
50-Sn-122

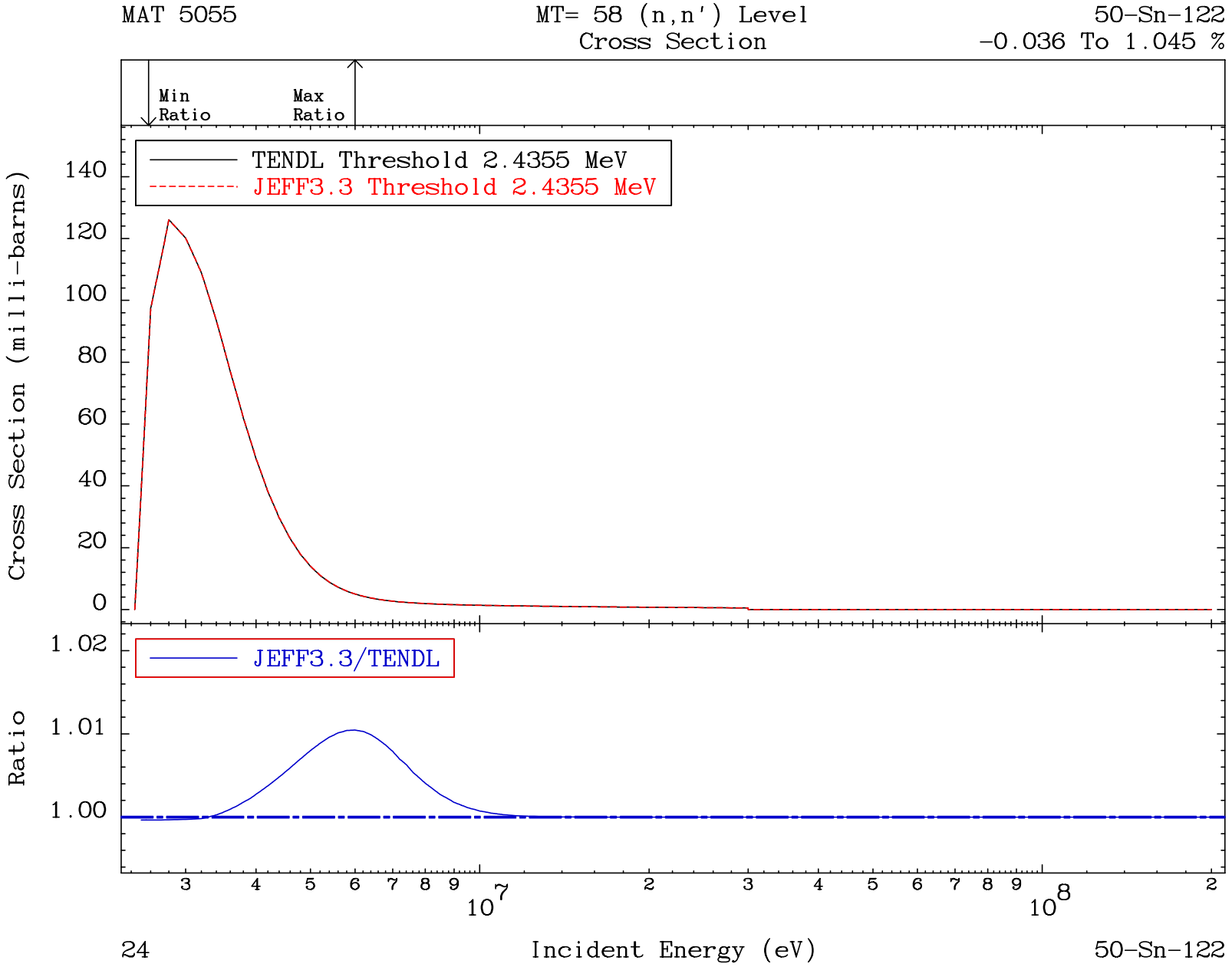

MAT 5055
MT= 53 (n,n') Level
Cross Section
50-Sn-122
-0.441 To 0.322 %
Min Ratio
Max Ratio
TENDL Threshold 2.1598 MeV
JEFF3.3 Threshold 2.1598 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
50-Sn-122

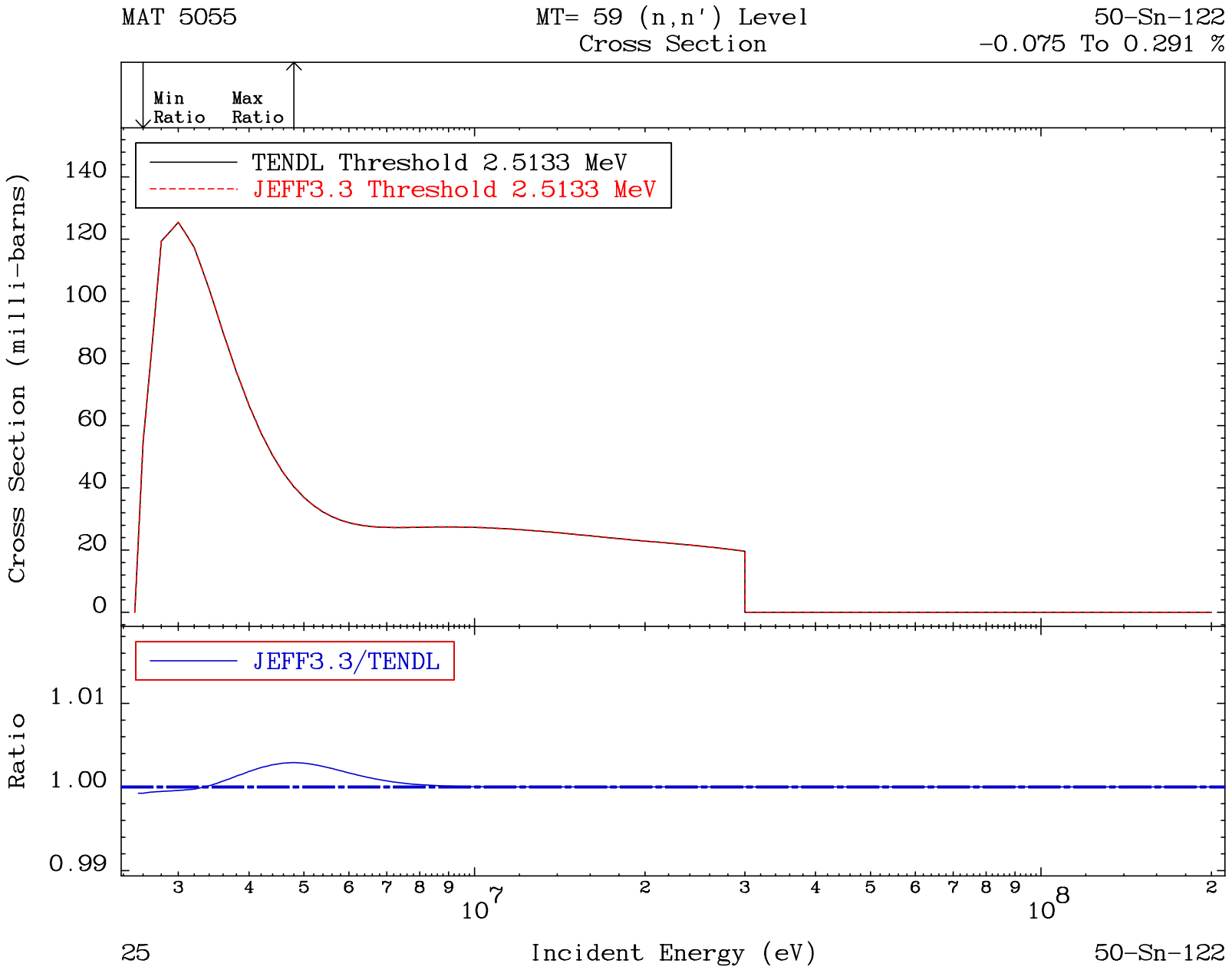

MAT 5055
MT= 54 (n,n') Level
Cross Section
50-Sn-122
-0.055 To 1.040 %
Min Ratio
Max Ratio
TENDL Threshold 2.1716 MeV
JEFF3.3 Threshold 2.1716 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
20
50-Sn-122

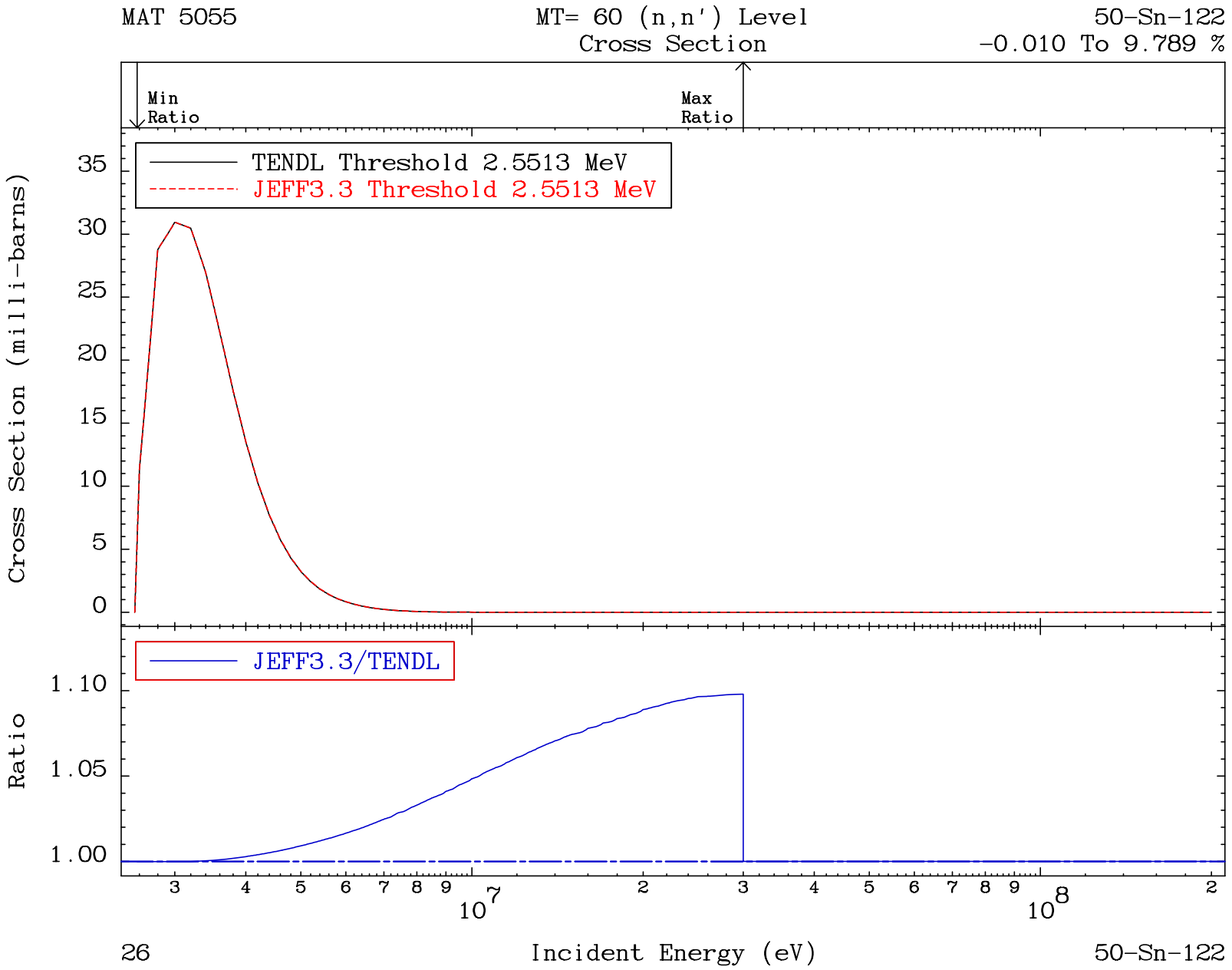

MAT 5055
MT= 55 (n,n') Level
Cross Section
50-Sn-122
-0.296 To 1.529 %
Min Ratio
Max Ratio
TENDL Threshold 2.2644 MeV
JEFF3.3 Threshold 2.2644 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
50-Sn-122

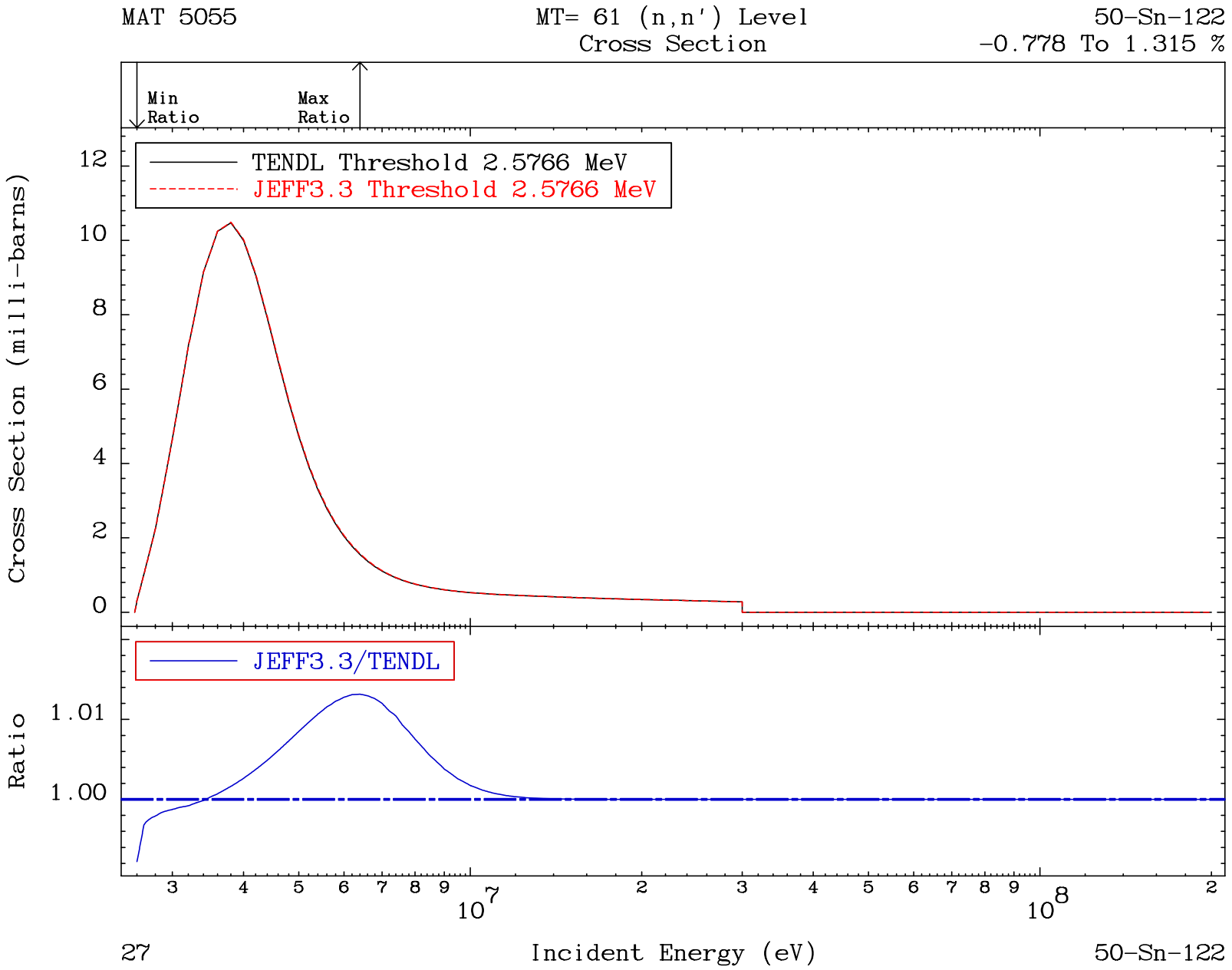

MAT 5055
MT= 56 (n,n') Level
Cross Section
50-Sn-122
-0.201 To 0.244 %
Min Ratio
Max Ratio
TENDL Threshold 2.3504 MeV
JEFF3.3 Threshold 2.3504 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
50-Sn-122

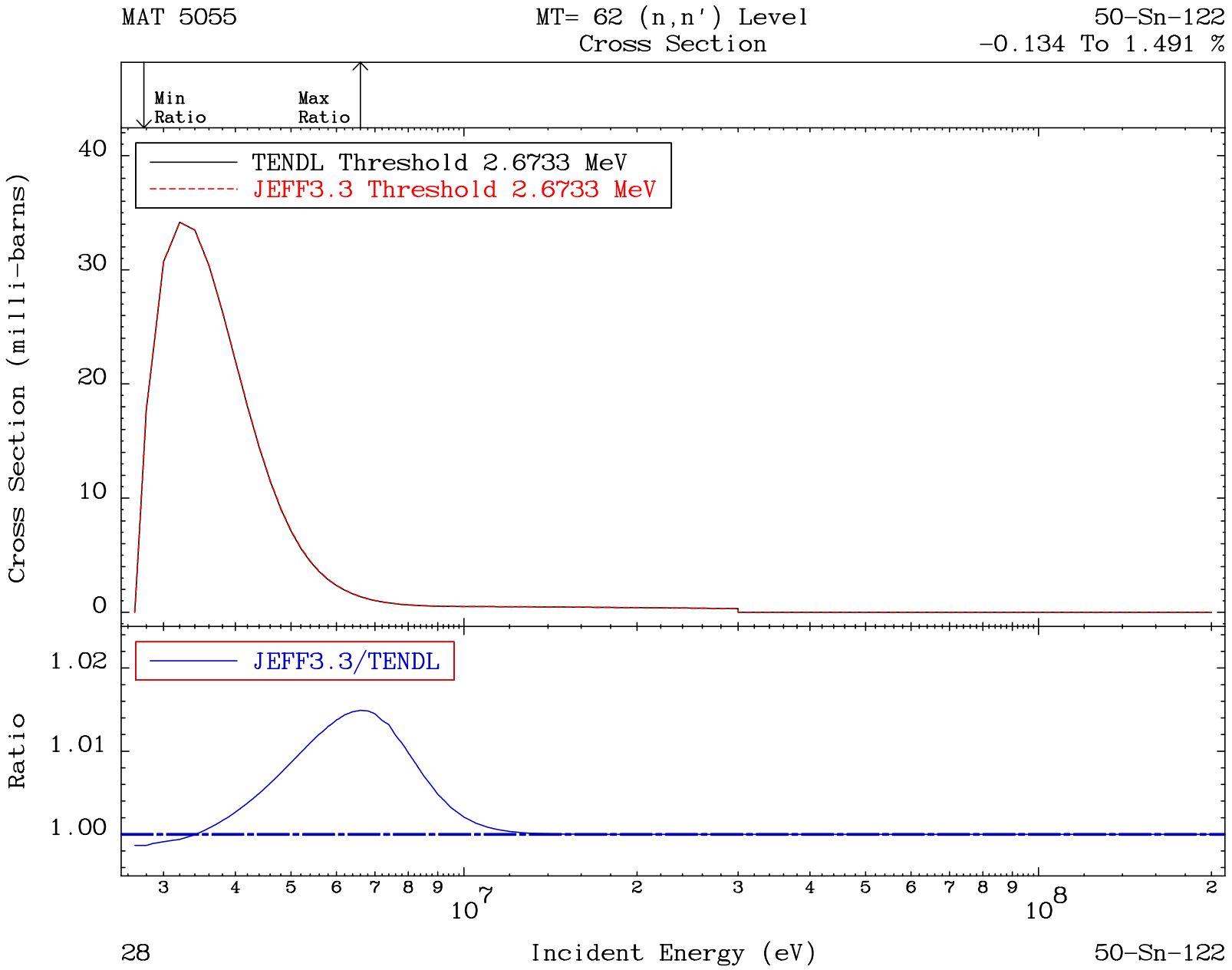

MAT 5055
MT= 57 (n,n') Level
Cross Section
50-Sn-122
-0.725 To 1.481 %
Min Ratio
Max Ratio
TENDL Threshold 2.4290 MeV
JEFF3.3 Threshold 2.4290 MeV
Cross Section (milli-barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
1.00
1.01
1.02
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
50-Sn-122

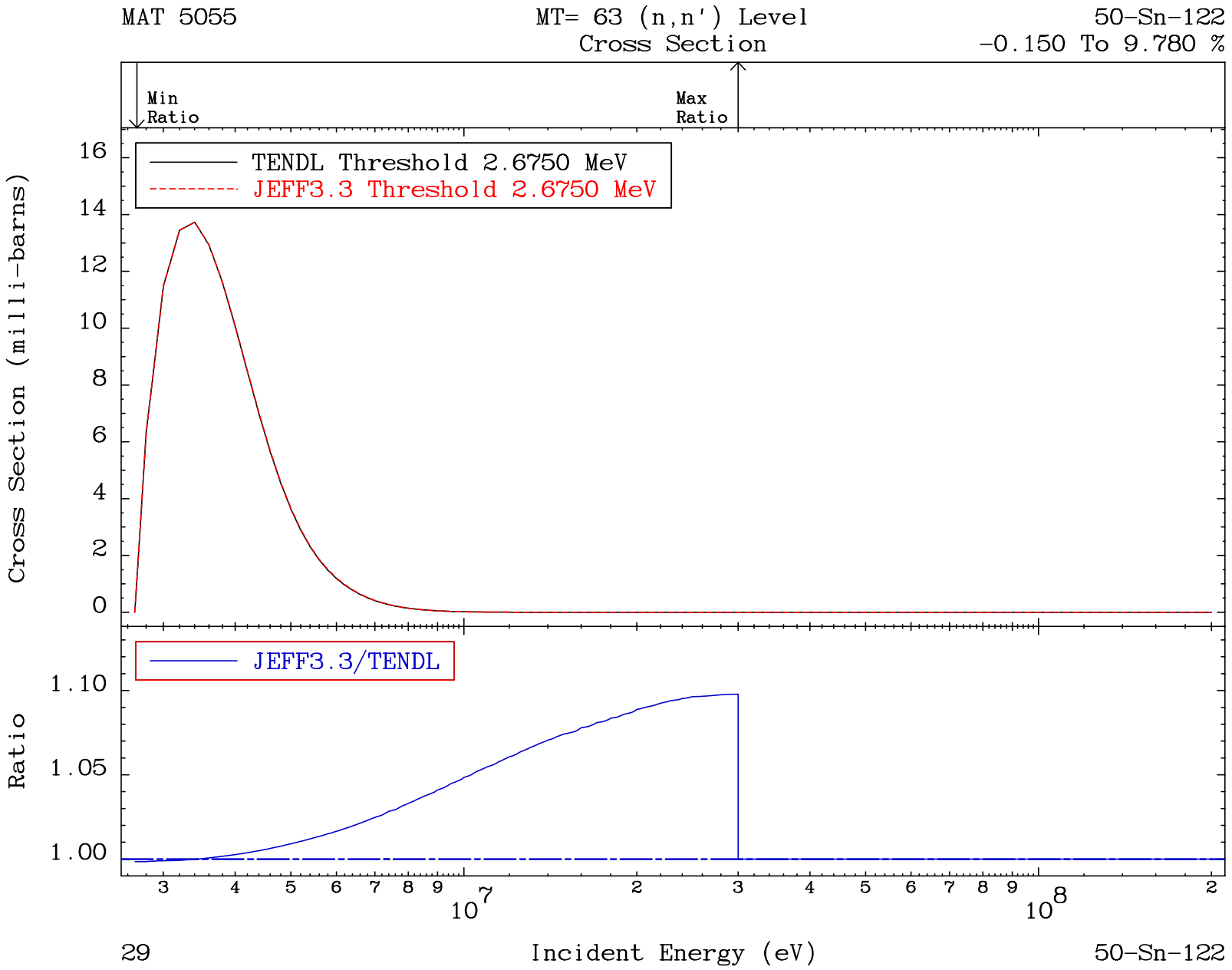

MAT 5055
MT= 58 (n,n') Level
Cross Section
50-Sn-122
-0.036 To 1.045 %
Min Ratio
Max Ratio
TENDL Threshold 2.4355 MeV
JEFF3.3 Threshold 2.4355 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
24
Incident Energy (eV)
50-Sn-122

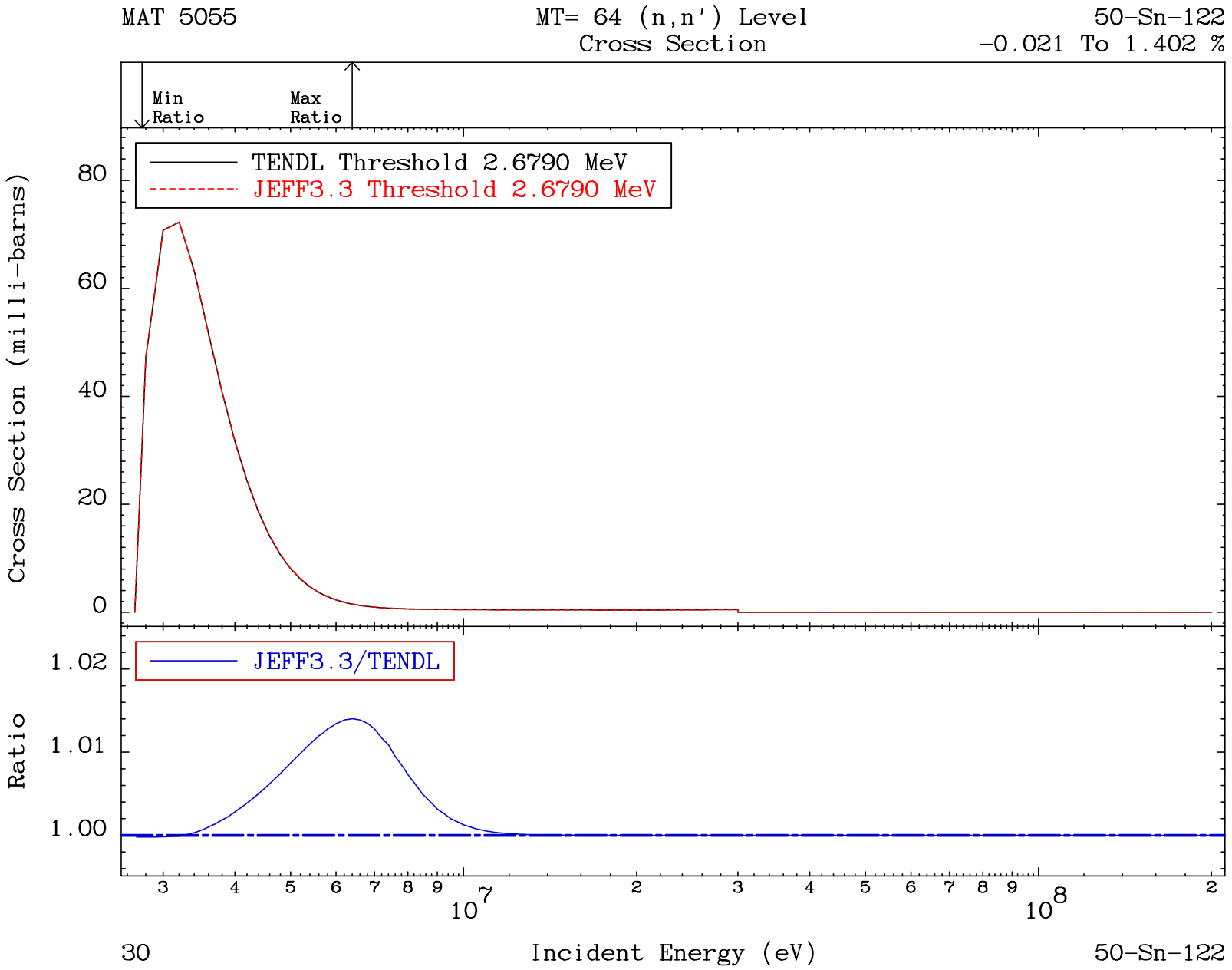

MAT 5055
MT= 59 (n,n') Level
Cross Section
50-Sn-122
-0.075 To 0.291 %
Min Ratio
Max Ratio
TENDL Threshold 2.5133 MeV
JEFF3.3 Threshold 2.5133 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
50-Sn-122

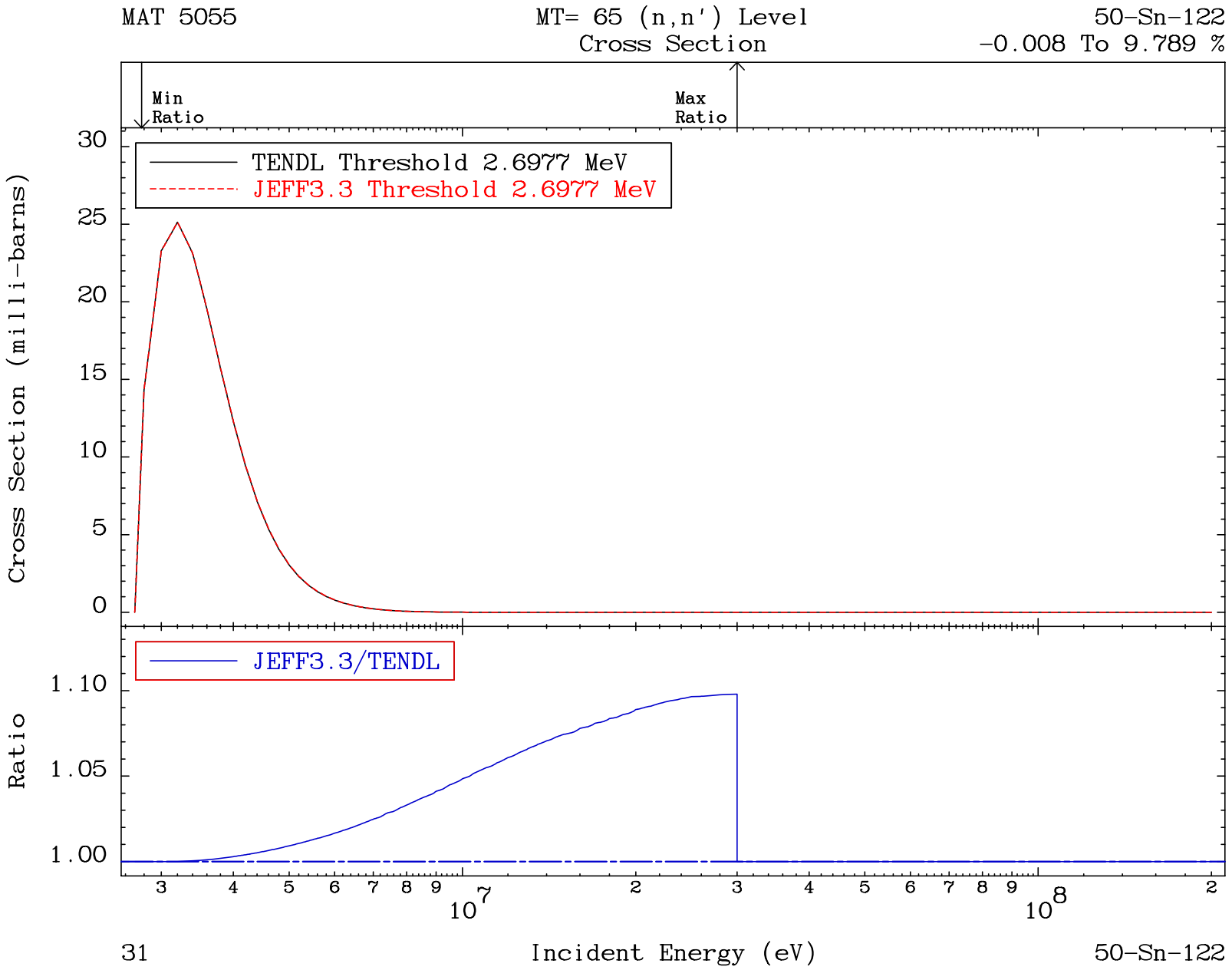

MAT 5055
MT= 60 (n,n') Level
Cross Section
50-Sn-122
-0.010 To 9.789 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5513 MeV
JEFF3.3 Threshold 2.5513 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
26
Incident Energy (eV)
50-Sn-122

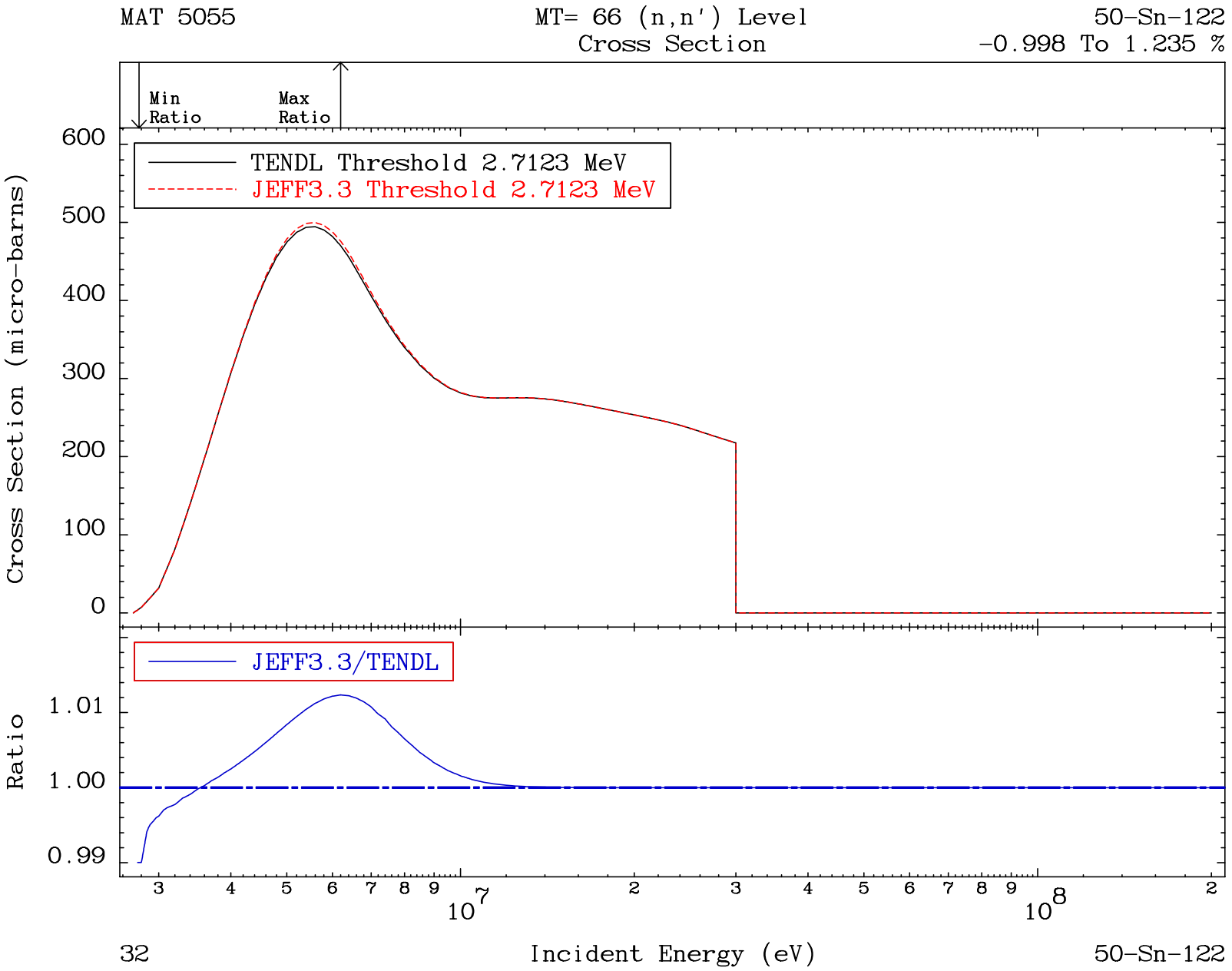

MAT 5055
MT= 61 (n,n') Level
Cross Section
50-Sn-122
-0.778 To 1.315 %
Min Ratio
Max Ratio
TENDL Threshold 2.5766 MeV
JEFF3.3 Threshold 2.5766 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
JEFF3.3/TENDL
Ratio
1.00
1.01
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
27
50-Sn-122

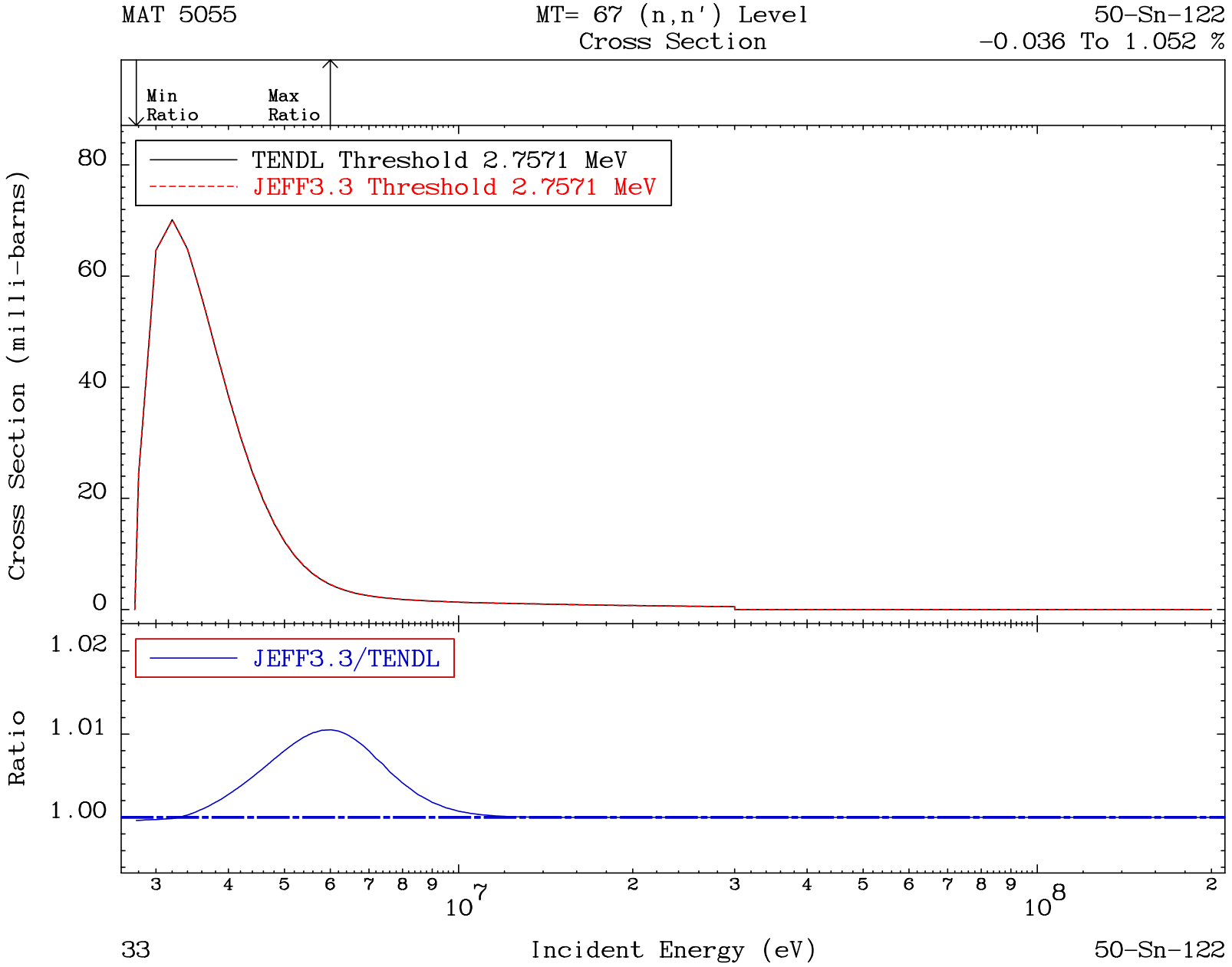

MAT 5055
MT= 62 (n,n') Level
Cross Section
50-Sn-122
-0.134 To 1.491 %
Min Ratio
Max Ratio
TENDL Threshold 2.6733 MeV
JEFF3.3 Threshold 2.6733 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
50-Sn-122

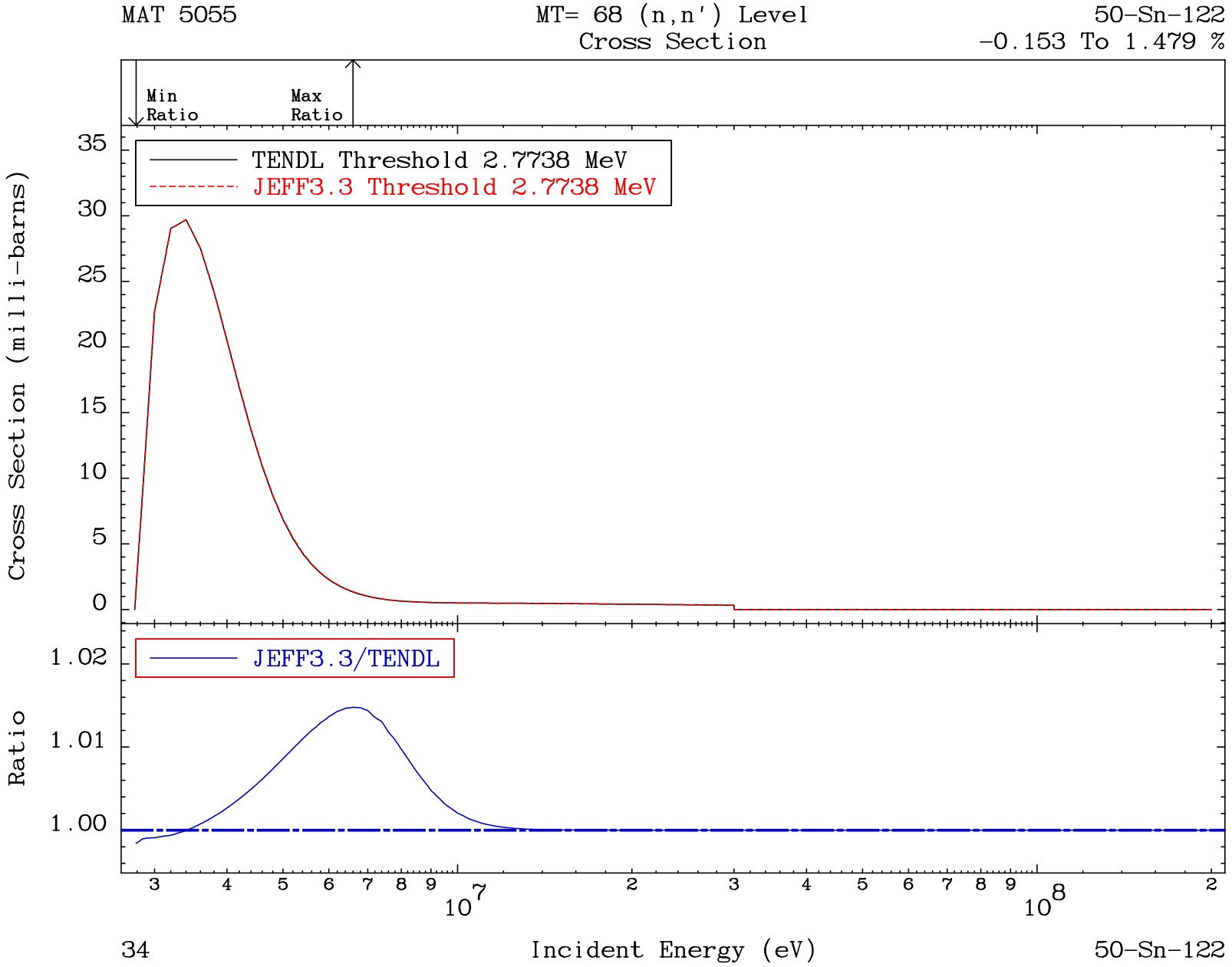

MAT 5055
MT= 63 (n,n') Level
Cross Section
50-Sn-122
-0.150 To 9.780 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.6750 MeV
JEFF3.3 Threshold 2.6750 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
29
Incident Energy (eV)
50-Sn-122

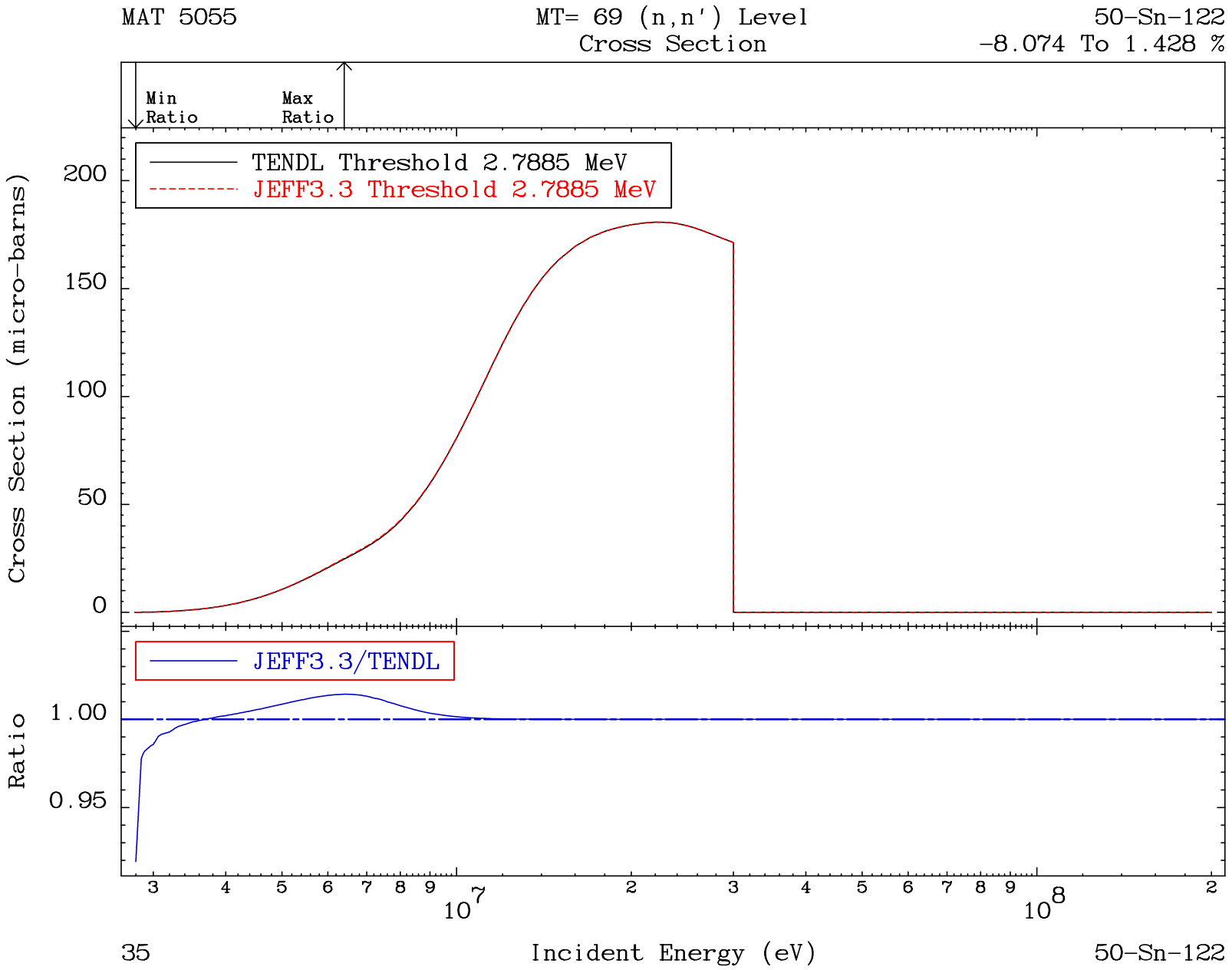

MAT 5055
MT= 64 (n,n') Level
Cross Section
50-Sn-122
-0.021 To 1.402 %
Min Ratio
Max Ratio
TENDL Threshold 2.6790 MeV
JEFF3.3 Threshold 2.6790 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
50-Sn-122

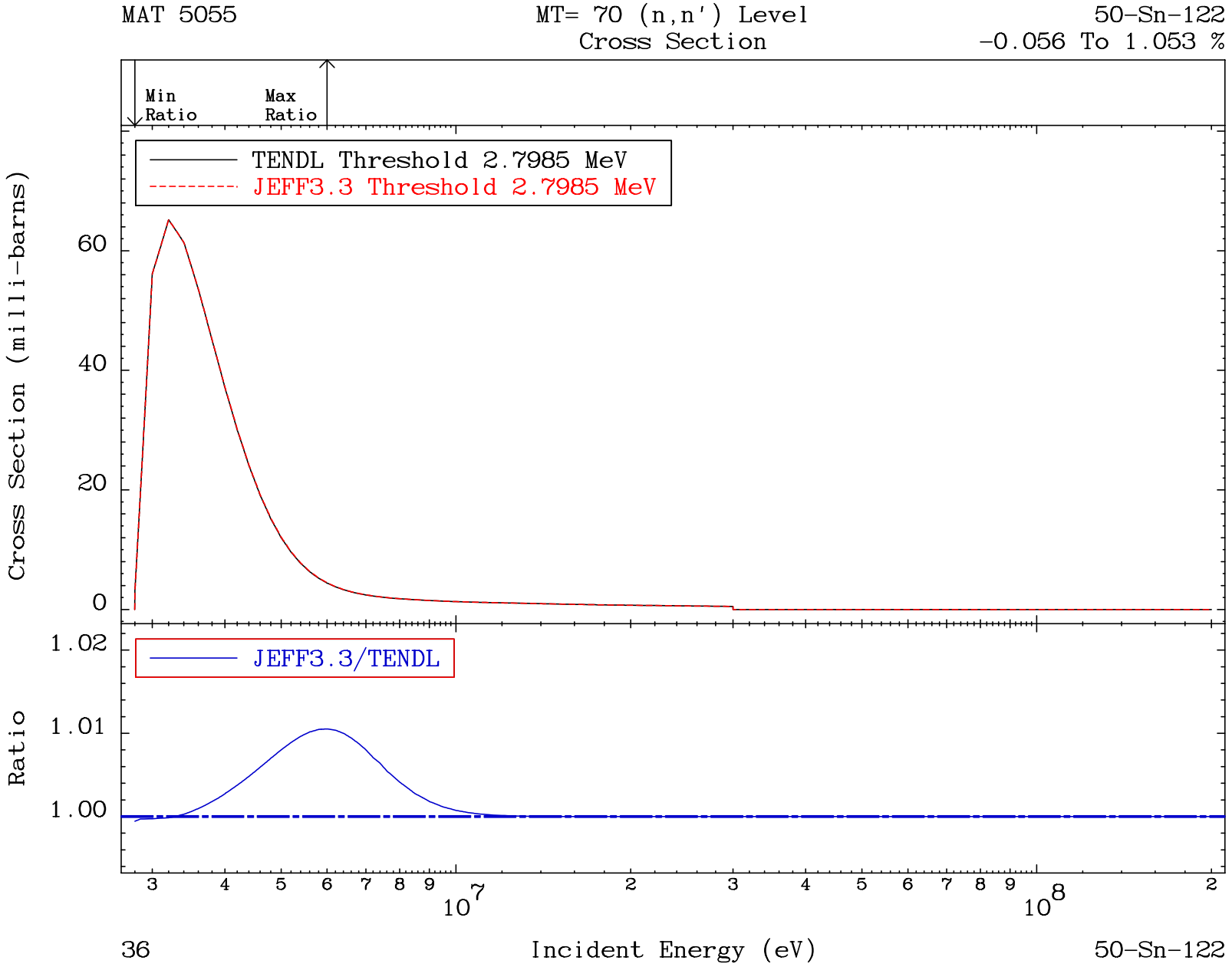

MAT 5055
MT= 65 (n,n') Level
Cross Section
50-Sn-122
-0.008 To 9.789 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.6977 MeV
JEFF3.3 Threshold 2.6977 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
31
Incident Energy (eV)
50-Sn-122

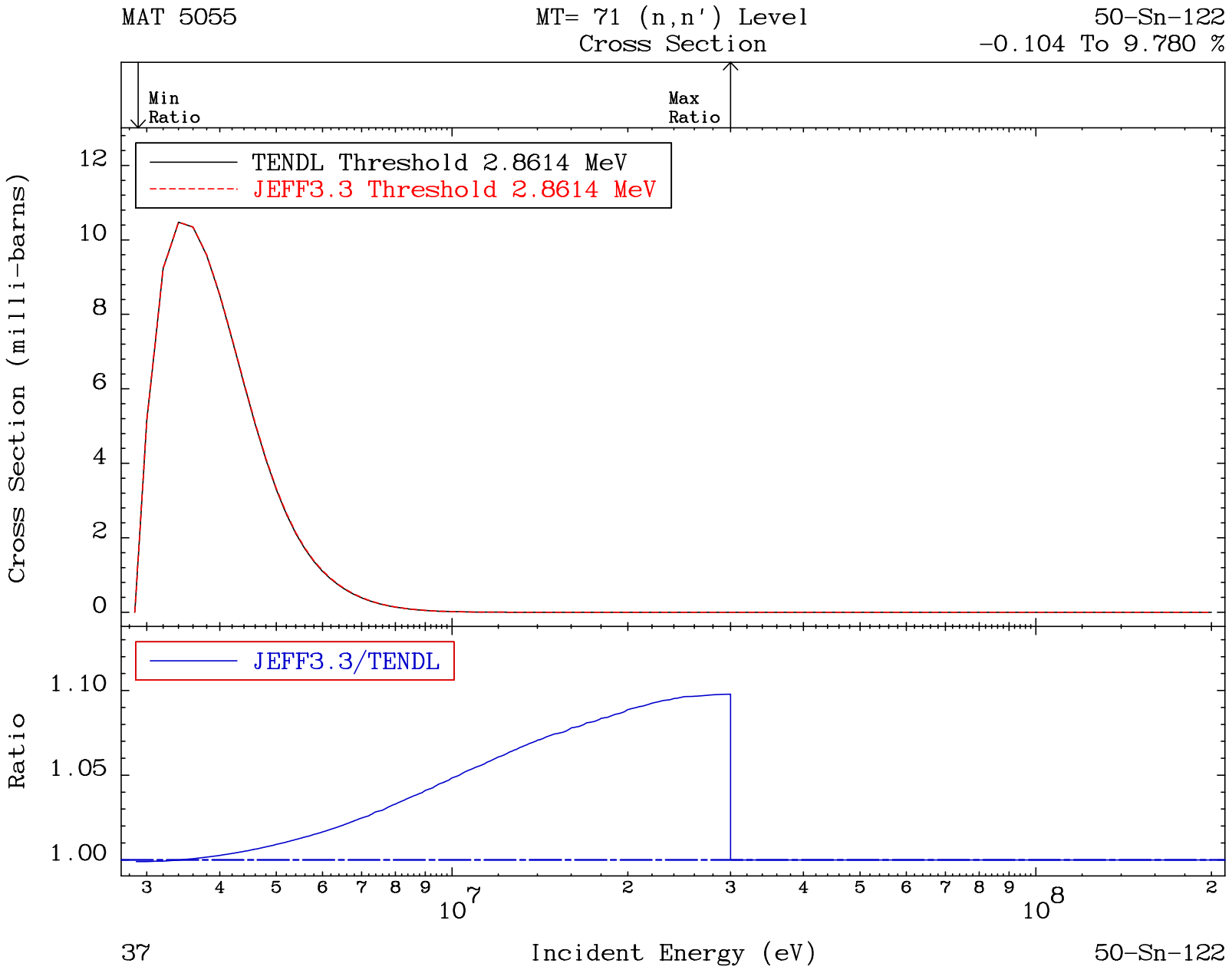

MAT 5055
MT= 66 (n,n') Level
Cross Section
50-Sn-122
-0.998 To 1.235 %
Min Ratio
Max Ratio
TENDL Threshold 2.7123 MeV
JEFF3.3 Threshold 2.7123 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
32
Incident Energy (eV)
50-Sn-122

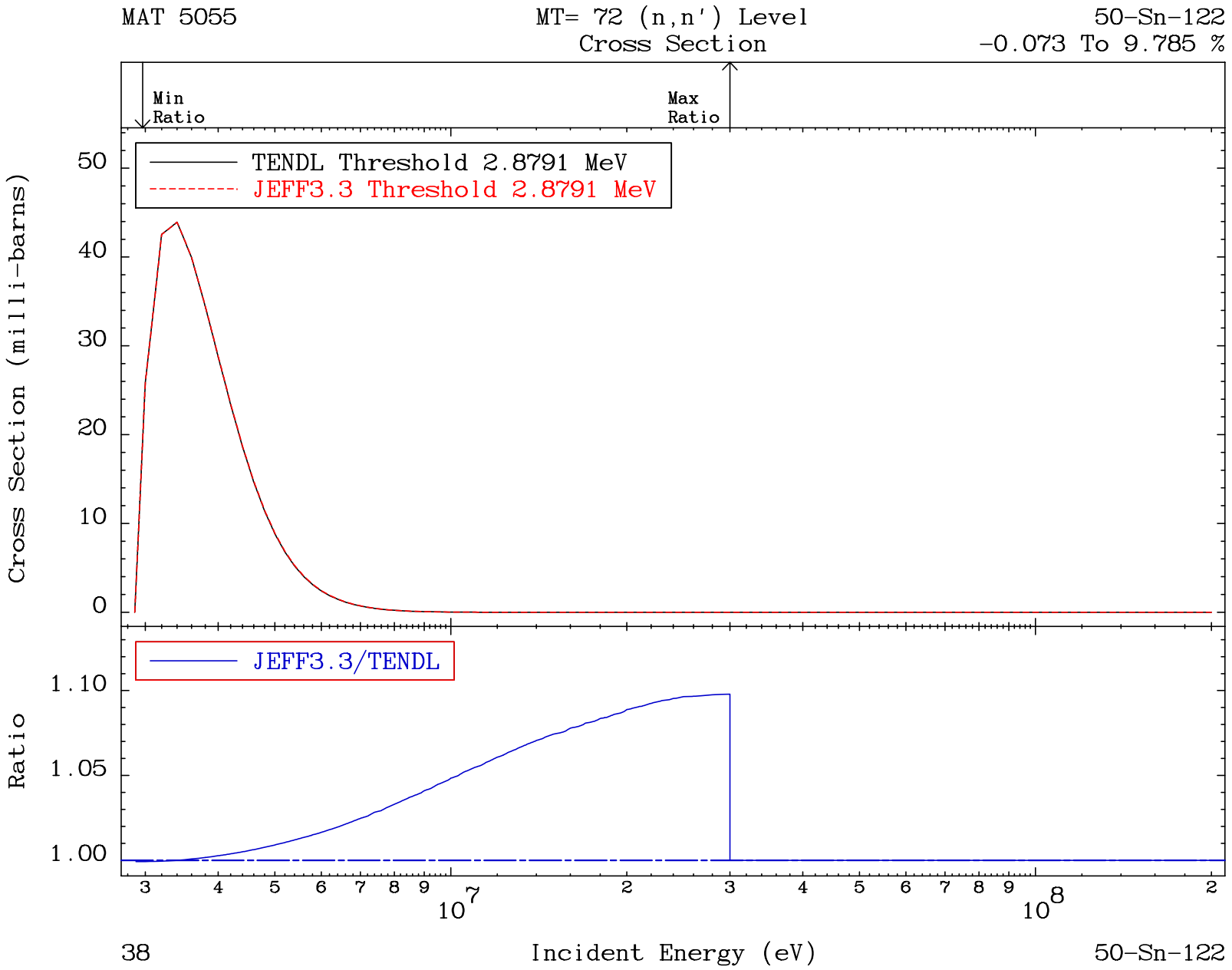

MAT 5055
MT= 67 (n,n') Level
Cross Section
50-Sn-122
-0.036 To 1.052 %
Min Ratio
Max Ratio
TENDL Threshold 2.7571 MeV
JEFF3.3 Threshold 2.7571 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
33
Incident Energy (eV)
50-Sn-122

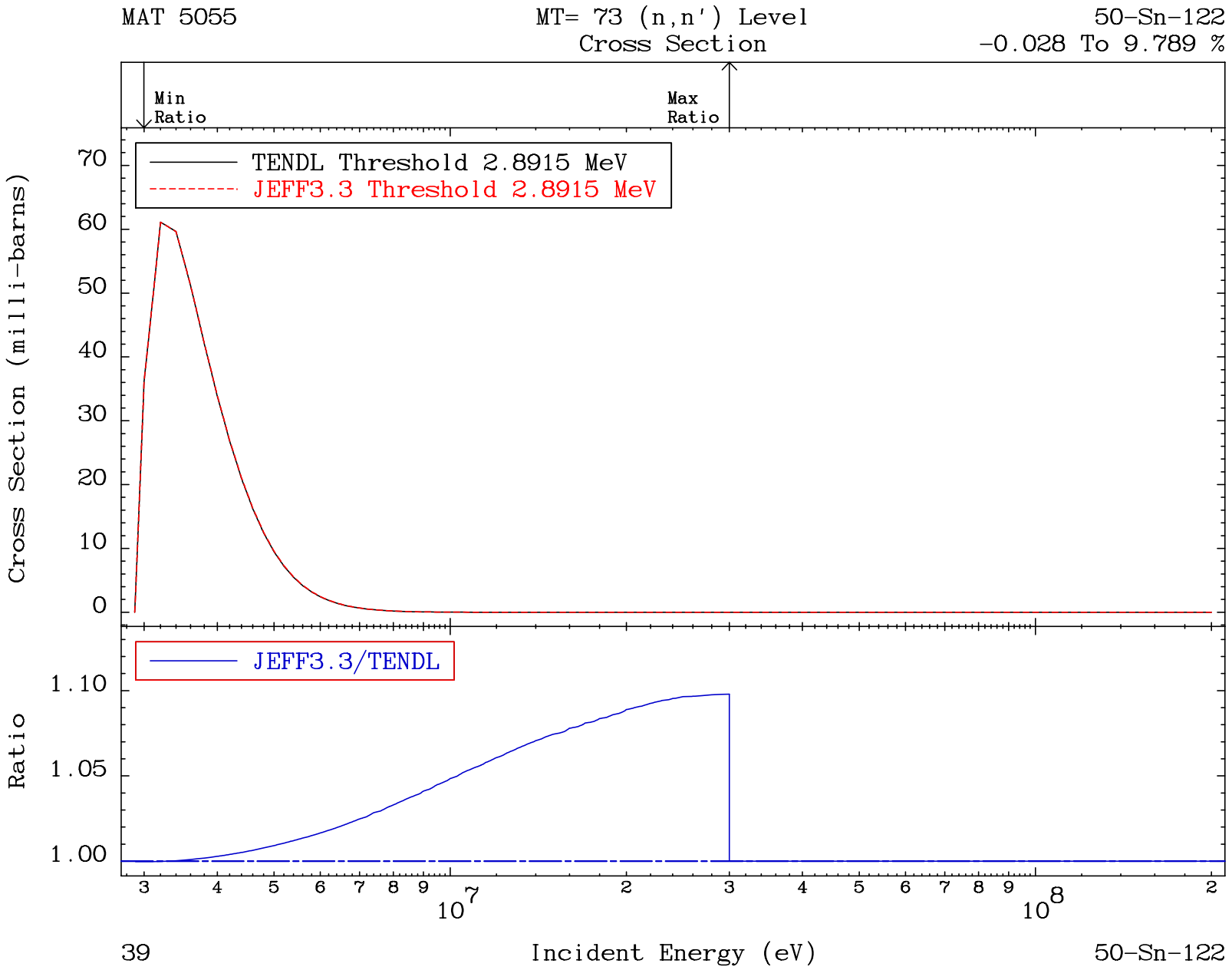

MAT 5055
MT= 68 (n,n') Level
Cross Section
50-Sn-122
-0.153 To 1.479 %
Min Ratio
Max Ratio
TENDL Threshold 2.7738 MeV
JEFF3.3 Threshold 2.7738 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
34
Incident Energy (eV)
50-Sn-122

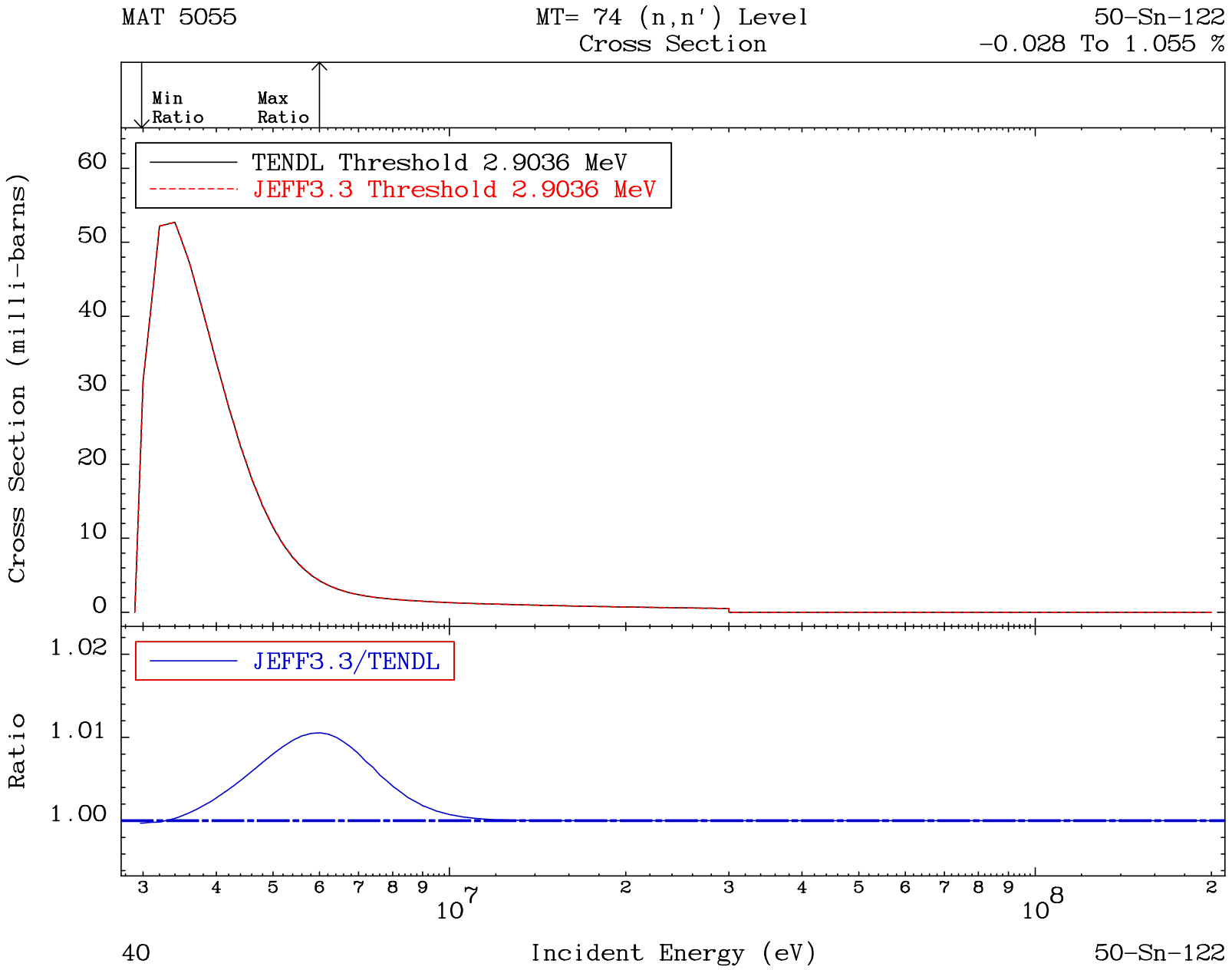

MAT 5055
MT= 69 (n,n') Level
Cross Section
50-Sn-122
-8.074 To 1.428 %
Min Ratio
Max Ratio
TENDL Threshold 2.7885 MeV
JEFF3.3 Threshold 2.7885 MeV
Cross Section (micro-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.00
0.95
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
50-Sn-122

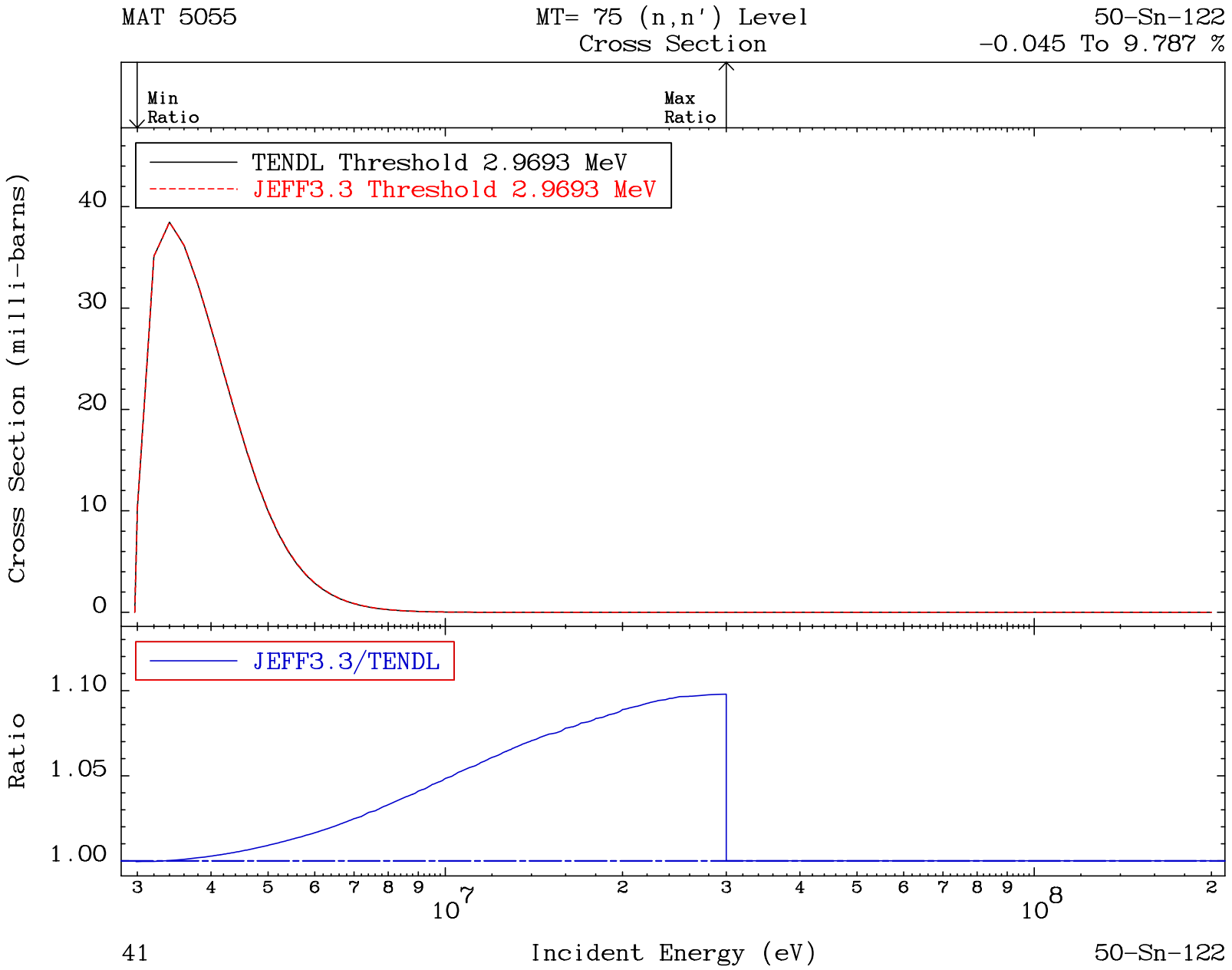

MAT 5055
MT= 70 (n,n') Level
Cross Section
50-Sn-122
-0.056 To 1.053 %
Min Ratio
Max Ratio
TENDL Threshold 2.7985 MeV
JEFF3.3 Threshold 2.7985 MeV
Cross Section (milli-barns)
60
40
20
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
50-Sn-122

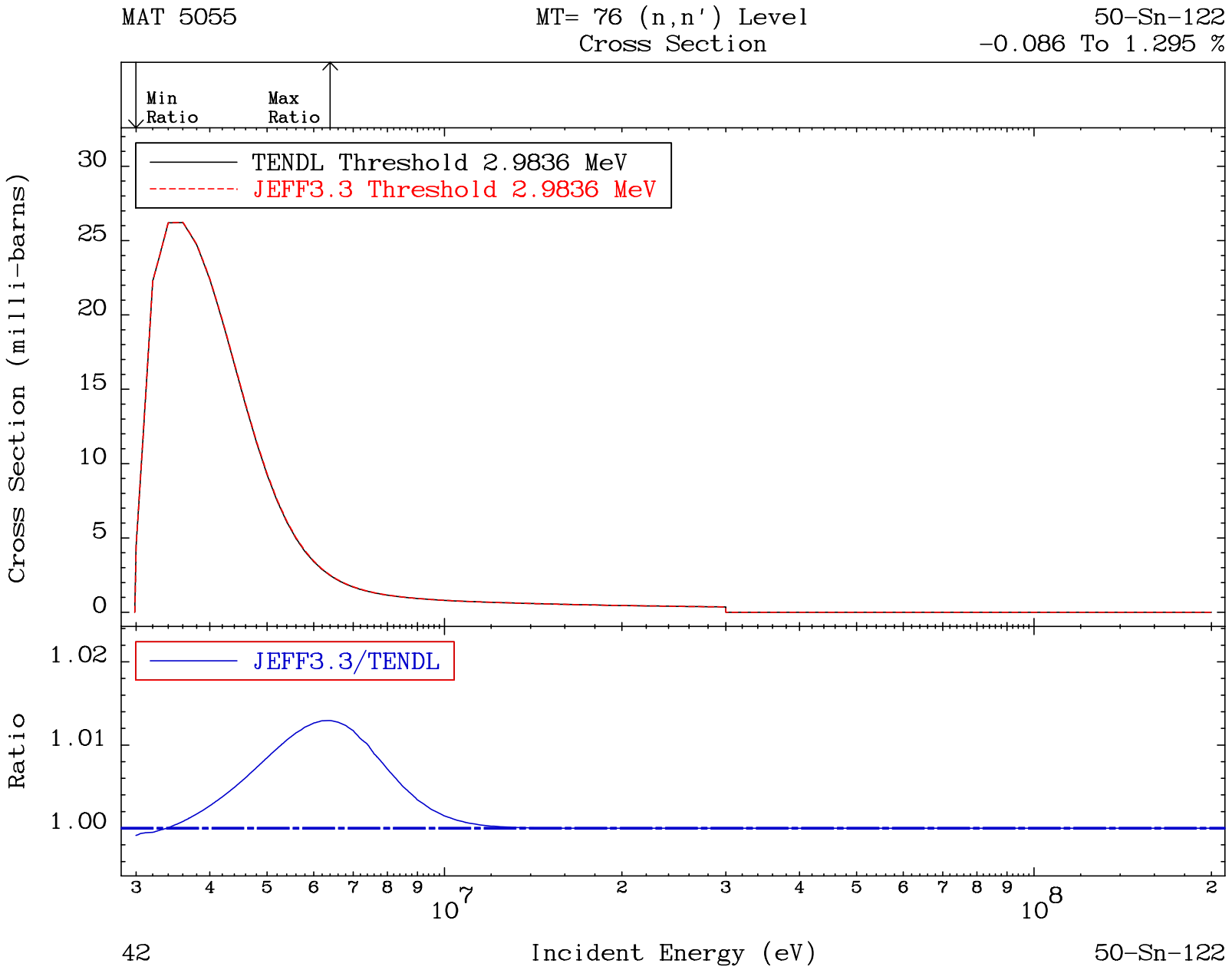

MAT 5055
MT= 71 (n,n') Level
Cross Section
50-Sn-122
-0.104 To 9.780 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8614 MeV
JEFF3.3 Threshold 2.8614 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
37
Incident Energy (eV)
50-Sn-122

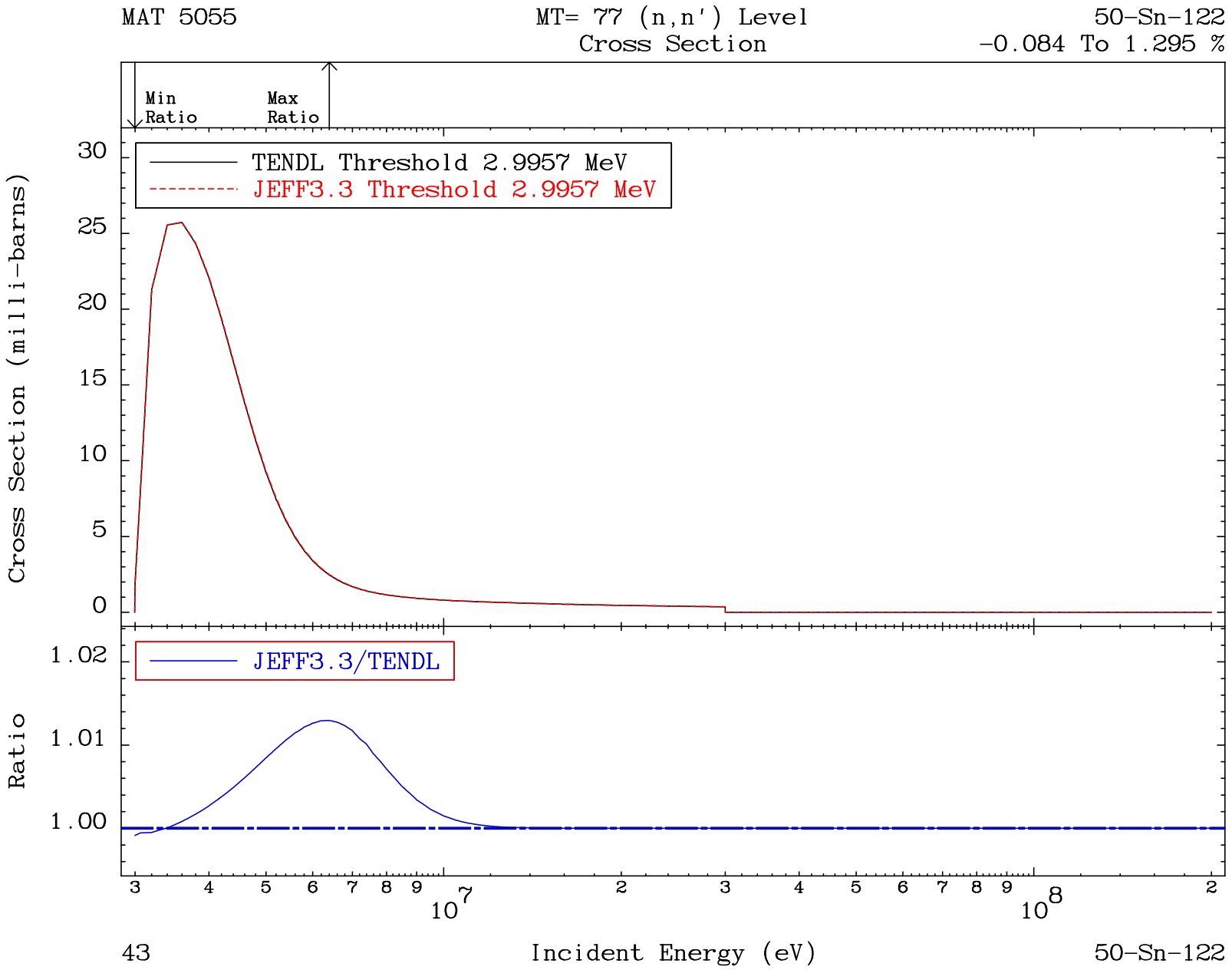

MAT 5055
MT= 72 (n,n') Level
Cross Section
50-Sn-122
-0.073 To 9.785 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8791 MeV
JEFF3.3 Threshold 2.8791 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
38
Incident Energy (eV)
50-Sn-122

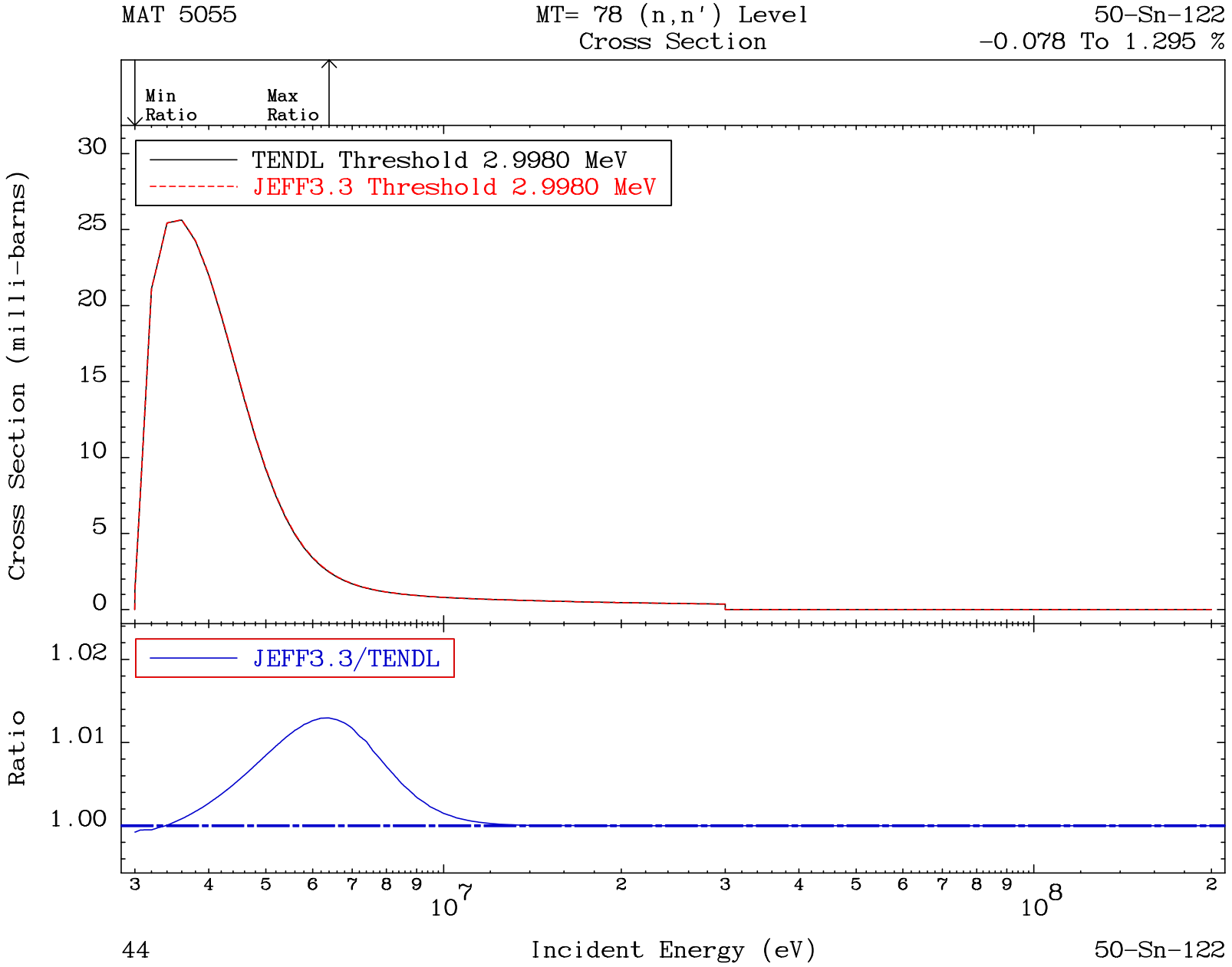

MAT 5055
MT= 73 (n,n') Level
Cross Section
50-Sn-122
-0.028 To 9.789 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8915 MeV
JEFF3.3 Threshold 2.8915 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
39
Incident Energy (eV)
50-Sn-122

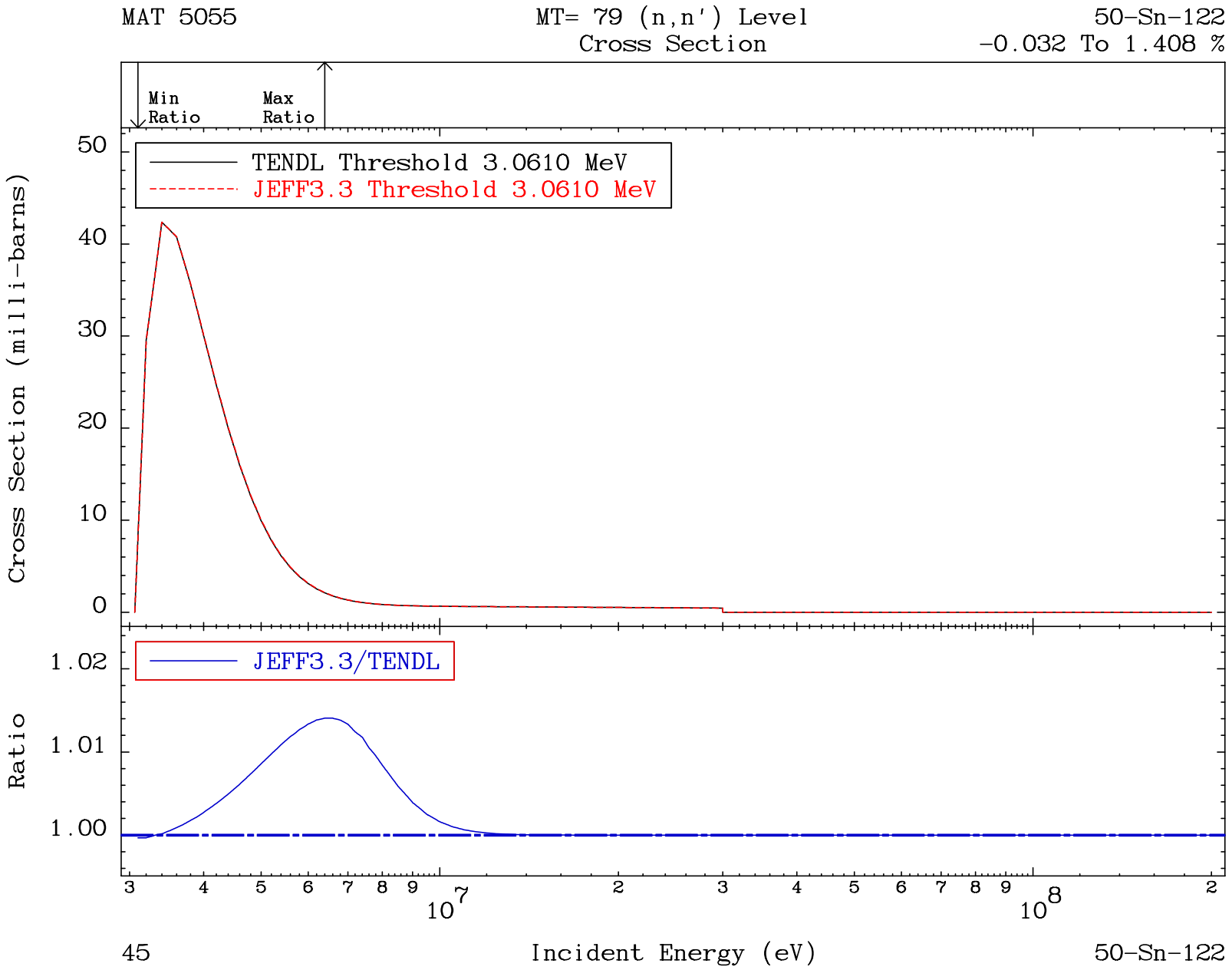

MAT 5055
MT= 74 (n,n') Level
Cross Section
50-Sn-122
-0.028 To 1.055 %
Min Ratio
Max Ratio
TENDL Threshold 2.9036 MeV
JEFF3.3 Threshold 2.9036 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
40
50-Sn-122

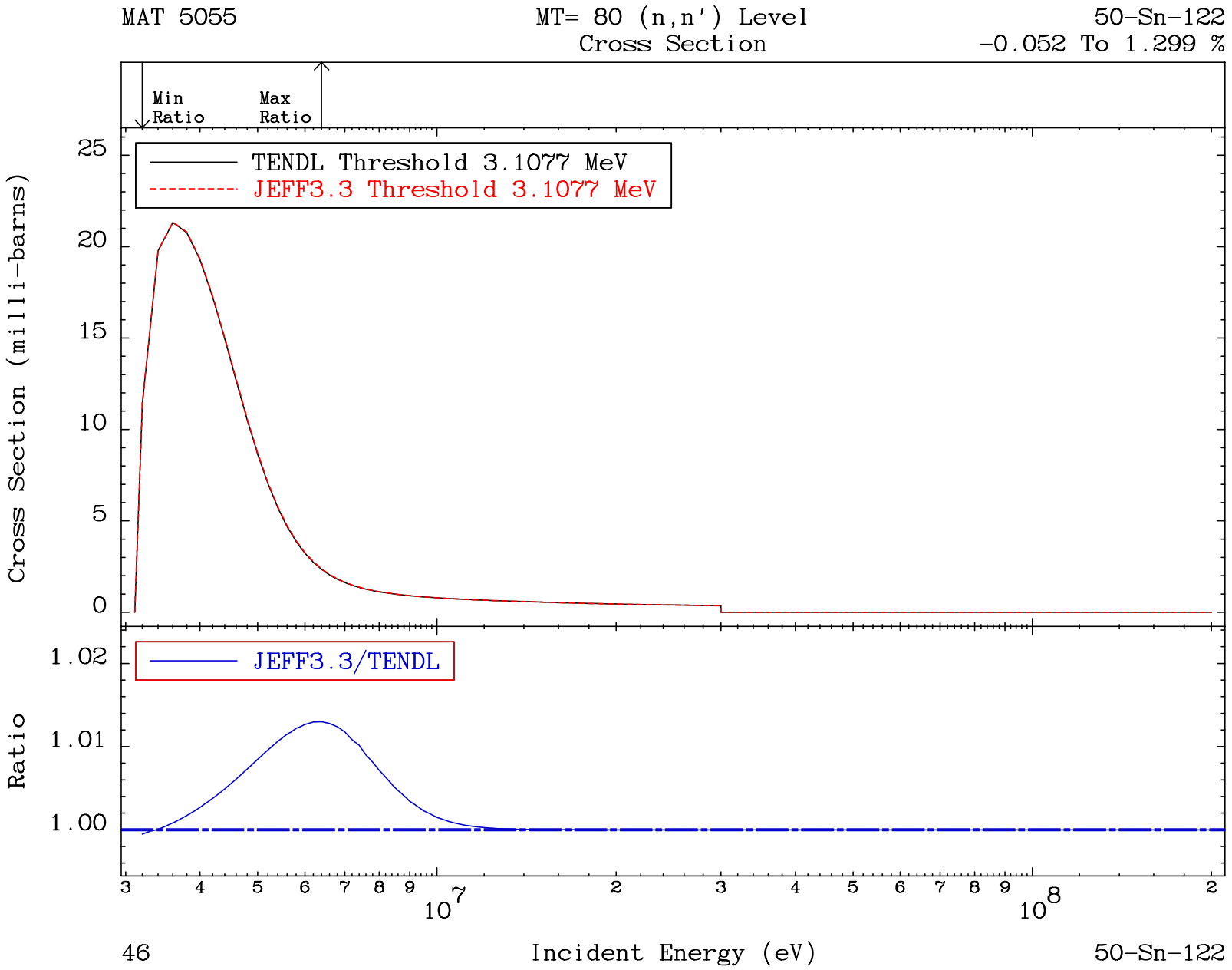

MAT 5055
MT= 75 (n,n') Level
Cross Section
50-Sn-122
-0.045 To 9.787 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.9693 MeV
JEFF3.3 Threshold 2.9693 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
41
Incident Energy (eV)
50-Sn-122

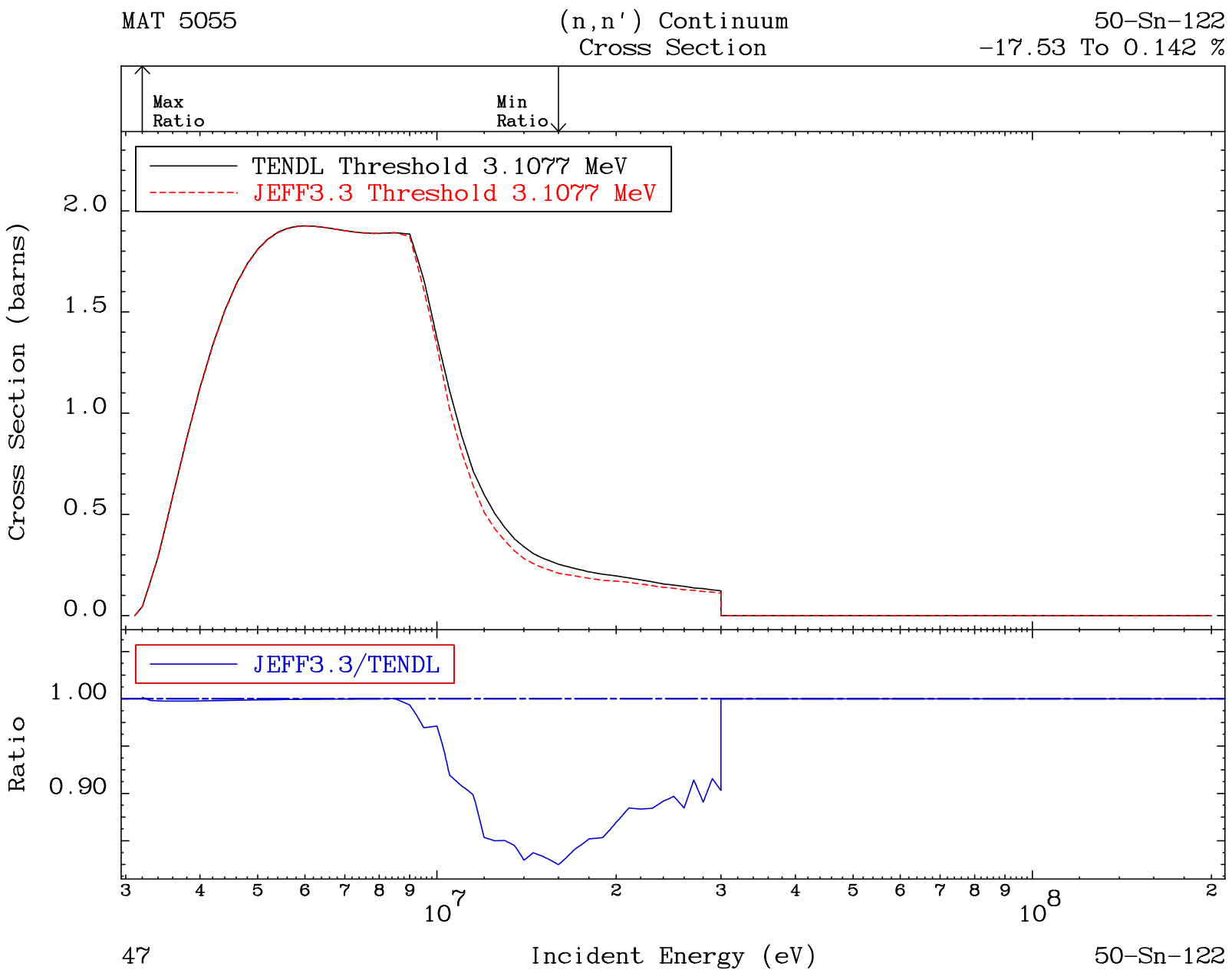

MAT 5055
MT= 76 (n,n') Level
Cross Section
50-Sn-122
-0.086 To 1.295 %
Min Ratio
Max Ratio
TENDL Threshold 2.9836 MeV
JEFF3.3 Threshold 2.9836 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
42
Incident Energy (eV)
50-Sn-122

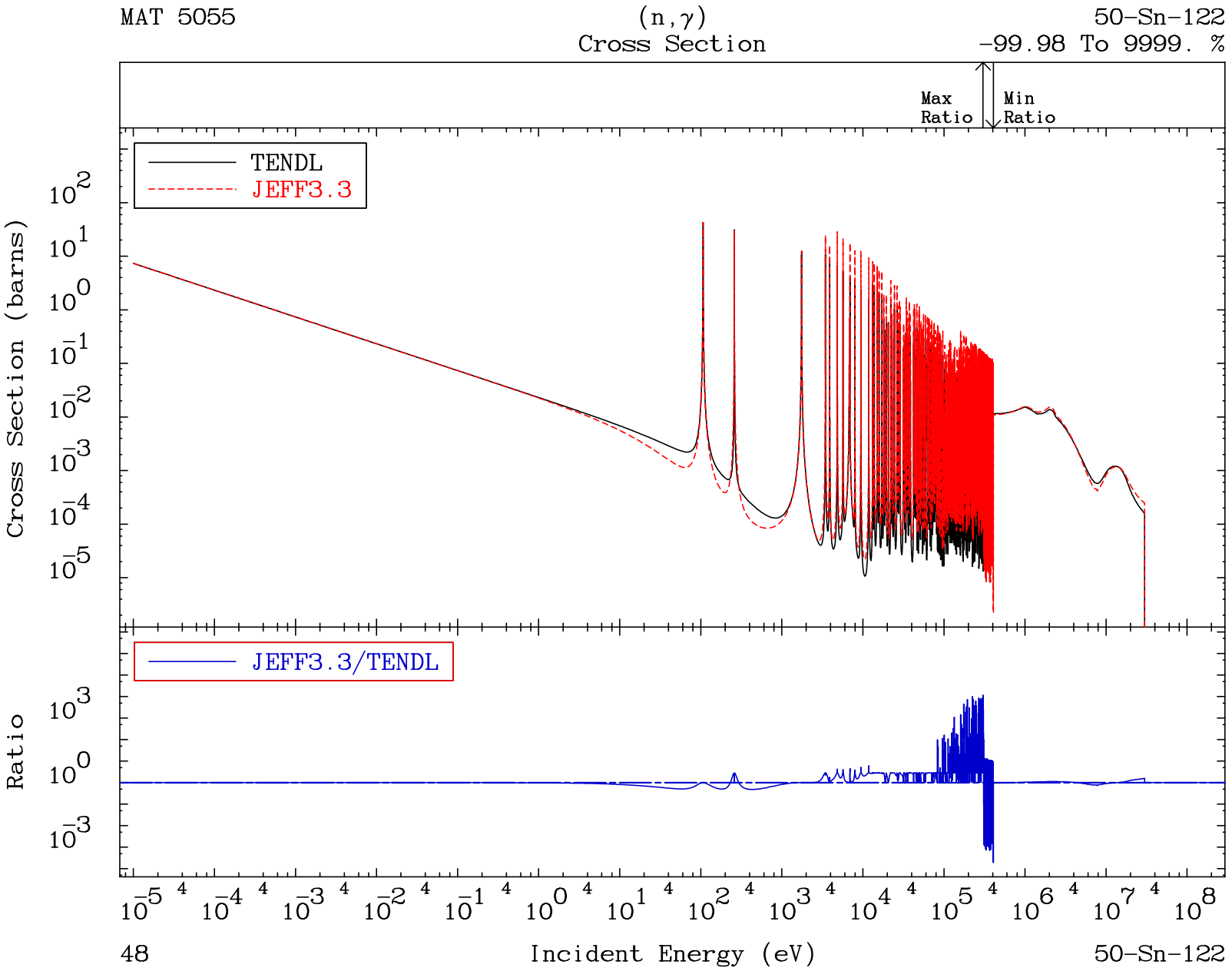

MAT 5055
MT= 77 (n,n') Level
Cross Section
50-Sn-122
-0.084 To 1.295 %
Min Ratio
Max Ratio
TENDL Threshold 2.9957 MeV
JEFF3.3 Threshold 2.9957 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
50-Sn-122

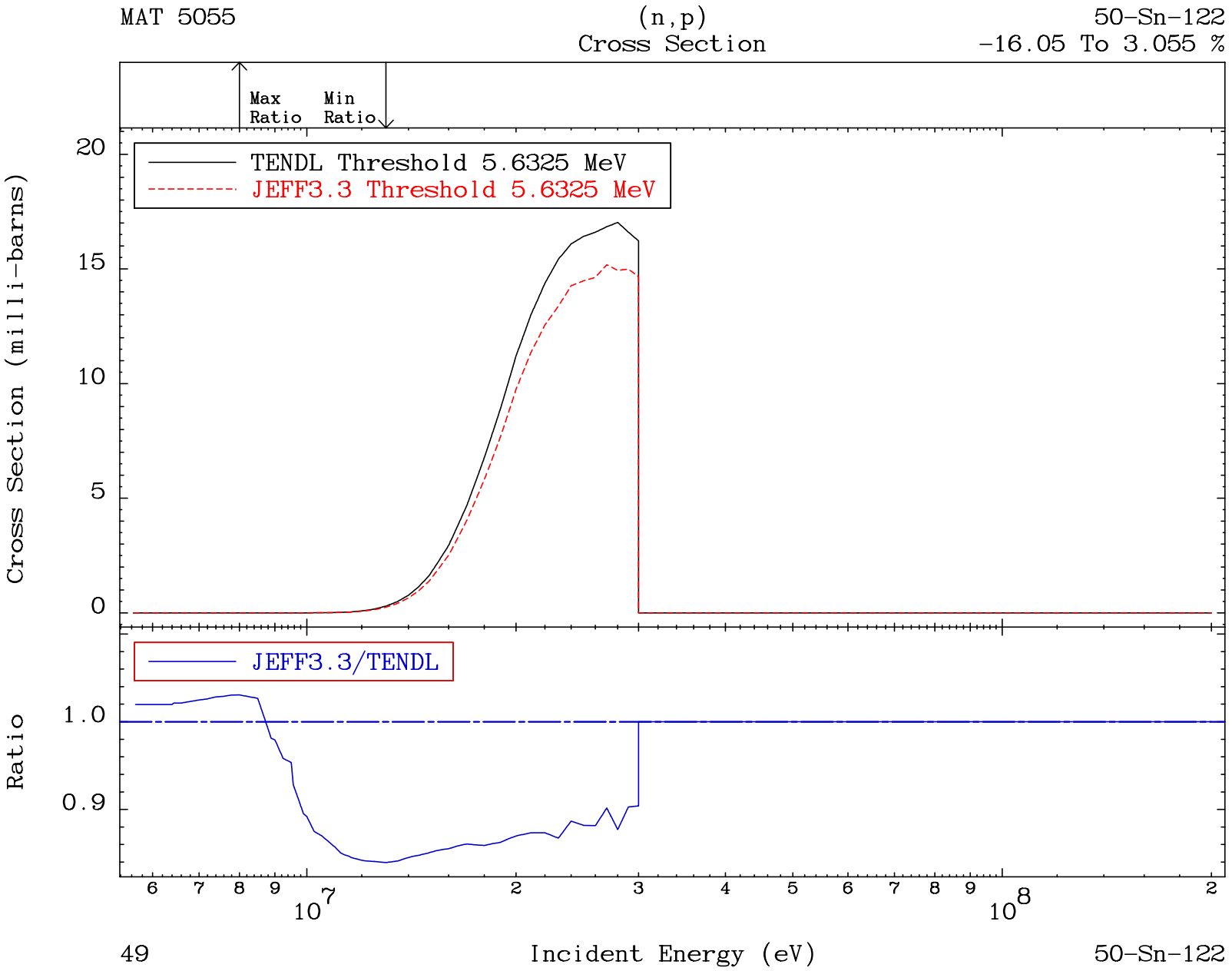

MAT 5055
MT= 78 (n,n') Level
Cross Section
50-Sn-122
-0.078 To 1.295 %
Min Ratio
Max Ratio
TENDL Threshold 2.9980 MeV
JEFF3.3 Threshold 2.9980 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
44
Incident Energy (eV)
50-Sn-122

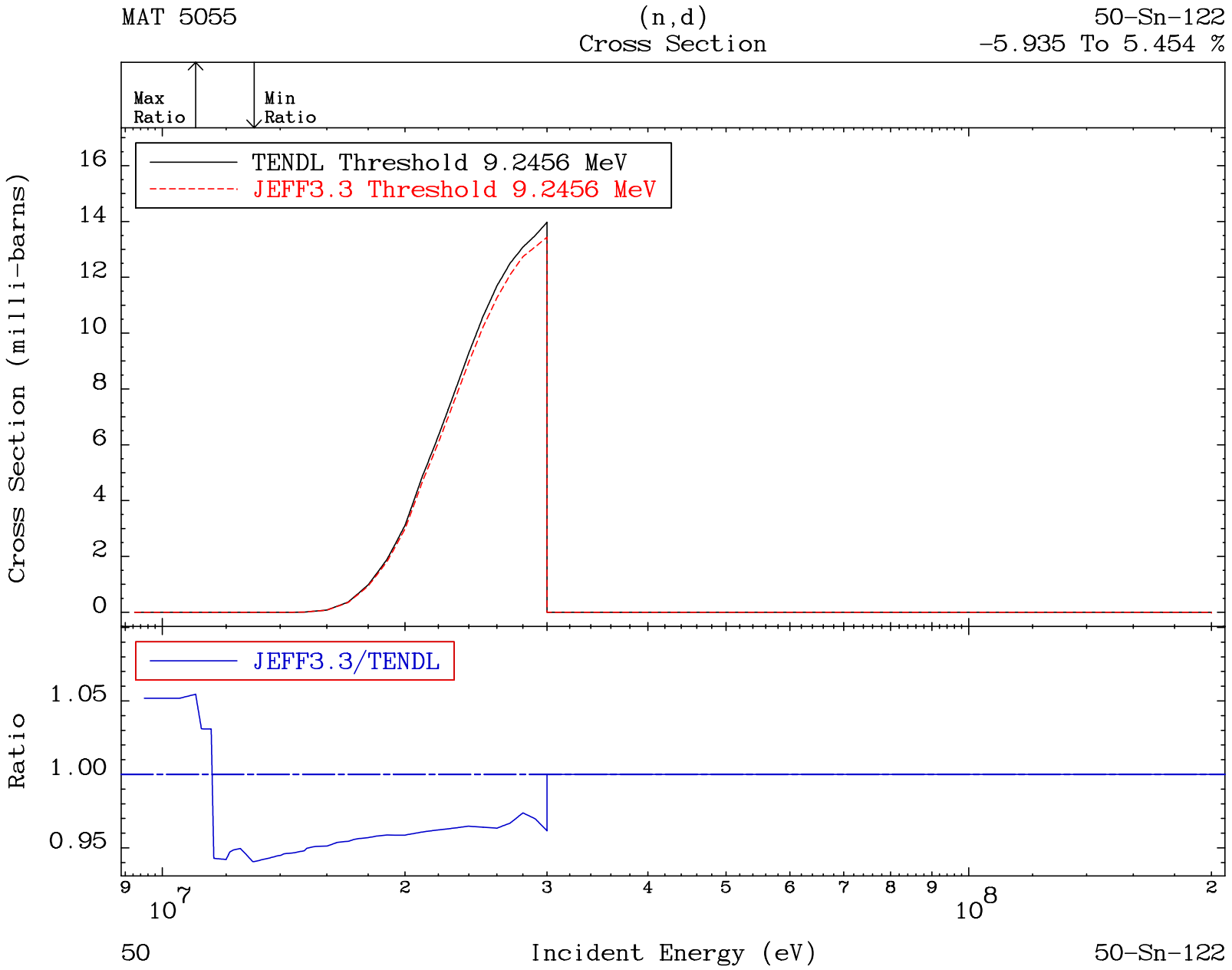

MAT 5055
MT= 79 (n,n') Level
Cross Section
50-Sn-122
-0.032 To 1.408 %
Min Ratio
Max Ratio
TENDL Threshold 3.0610 MeV
JEFF3.3 Threshold 3.0610 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
45
50-Sn-122

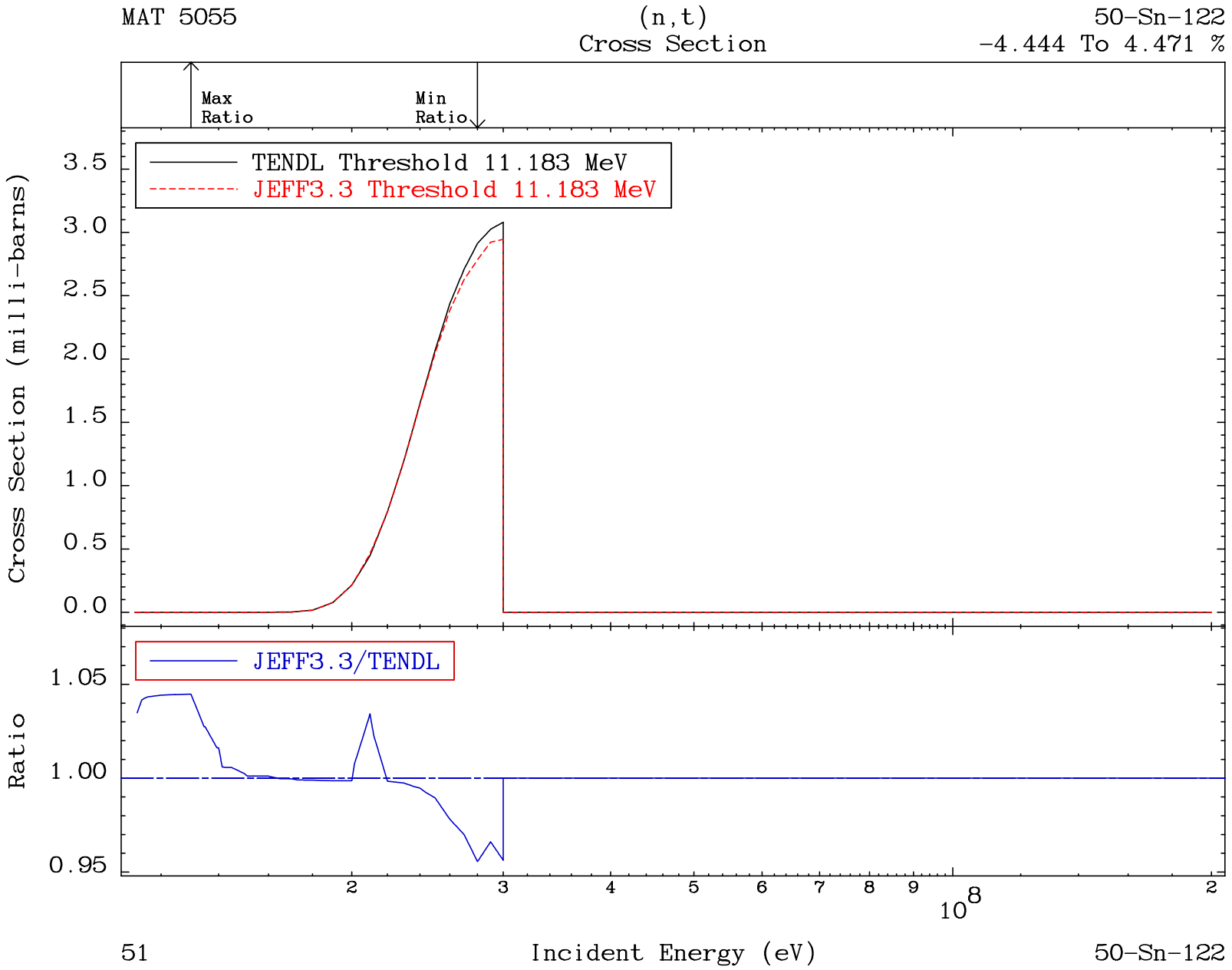

MAT 5055
MT= 80 (n,n') Level
Cross Section
50-Sn-122
-0.052 To 1.299 %
Min Ratio
Max Ratio
TENDL Threshold 3.1077 MeV
JEFF3.3 Threshold 3.1077 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
50-Sn-122

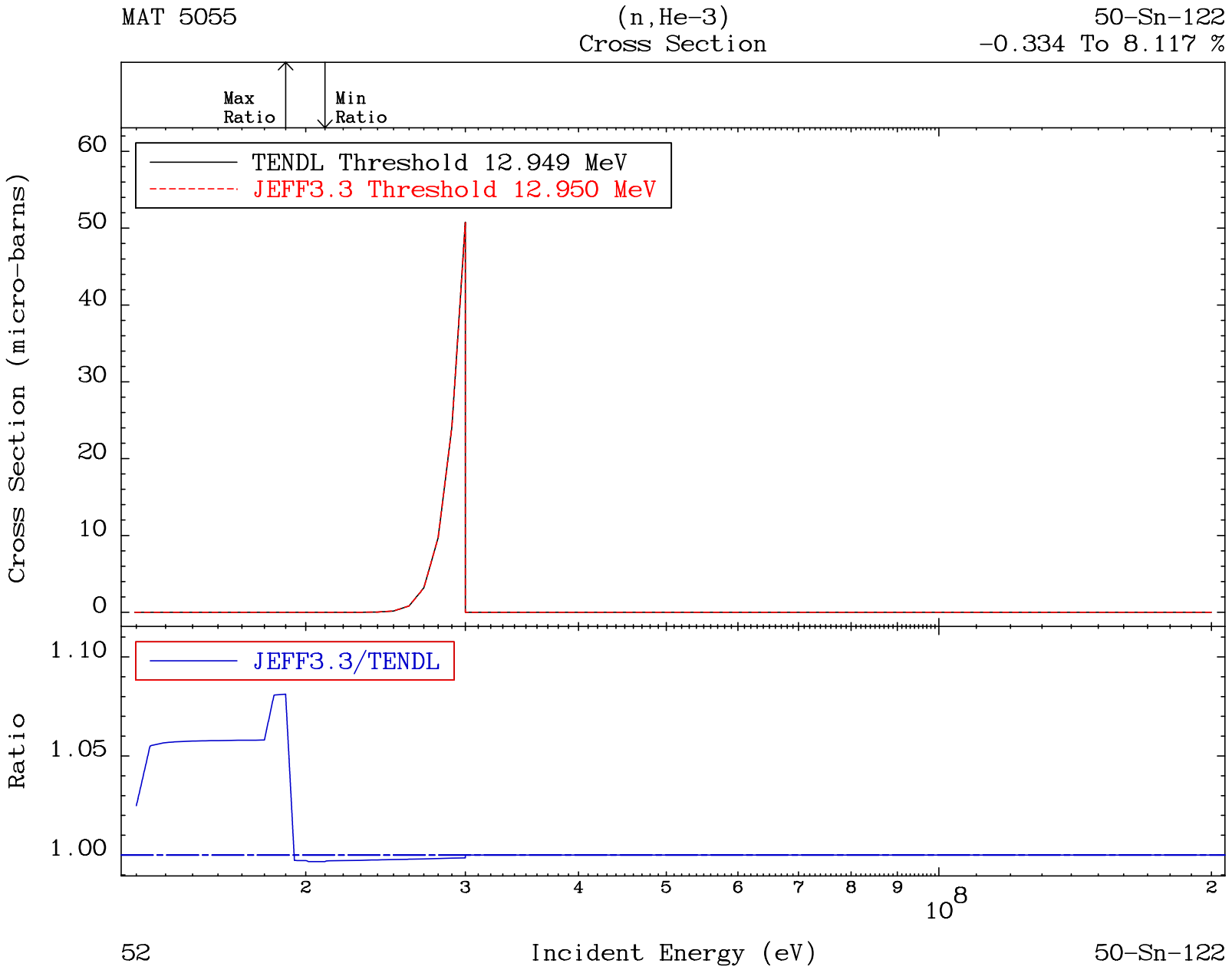

MAT 5055
(n,n') Continuum
Cross Section
50-Sn-122
-17.53 To 0.142 %
Max Ratio
Min Ratio
TENDL Threshold 3.1077 MeV
JEFF3.3 Threshold 3.1077 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.00
0.90
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
47
Incident Energy (eV)
50-Sn-122

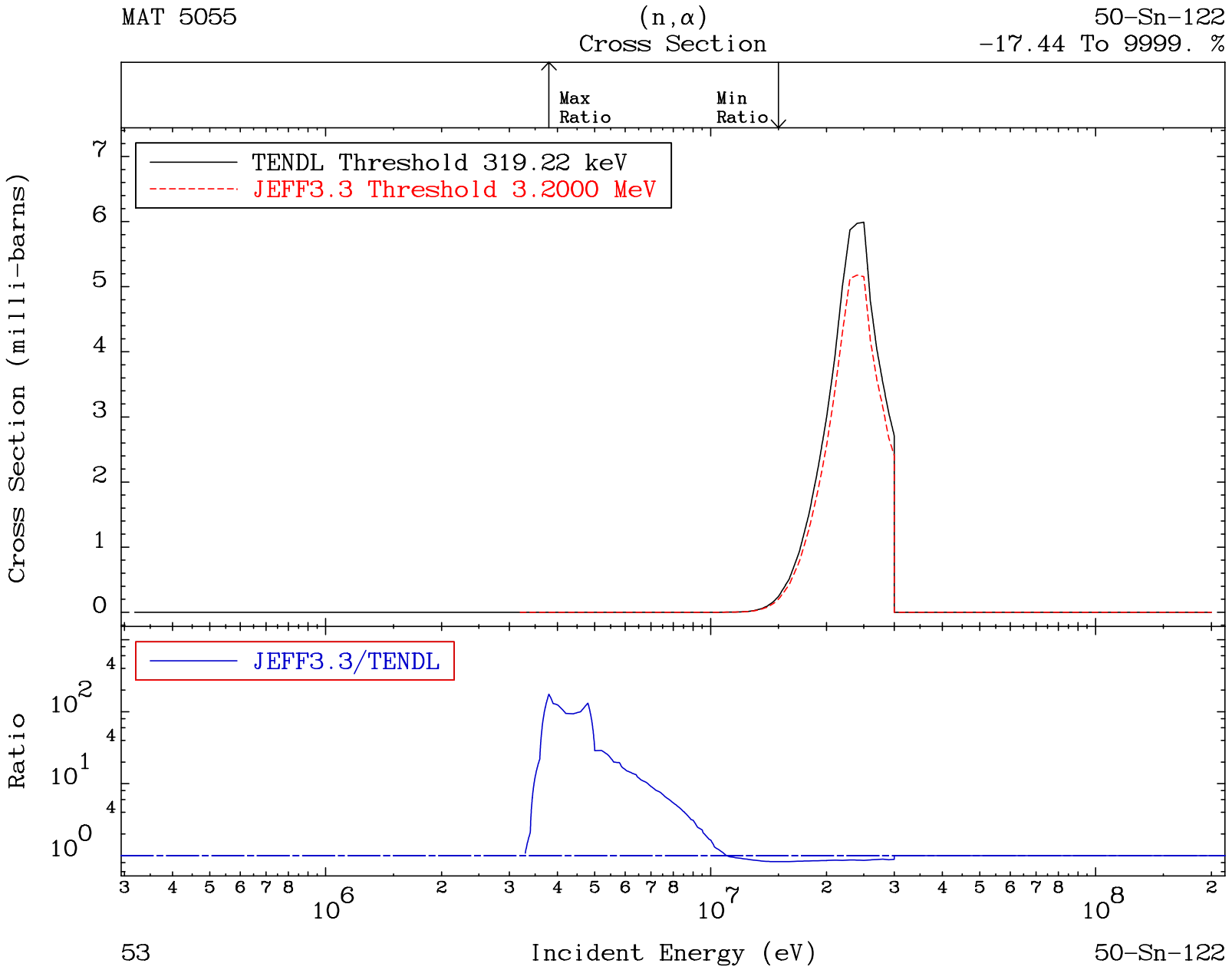

MAT 5055
(n,γ)
Cross Section
50-Sn-122
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
48
50-Sn-122

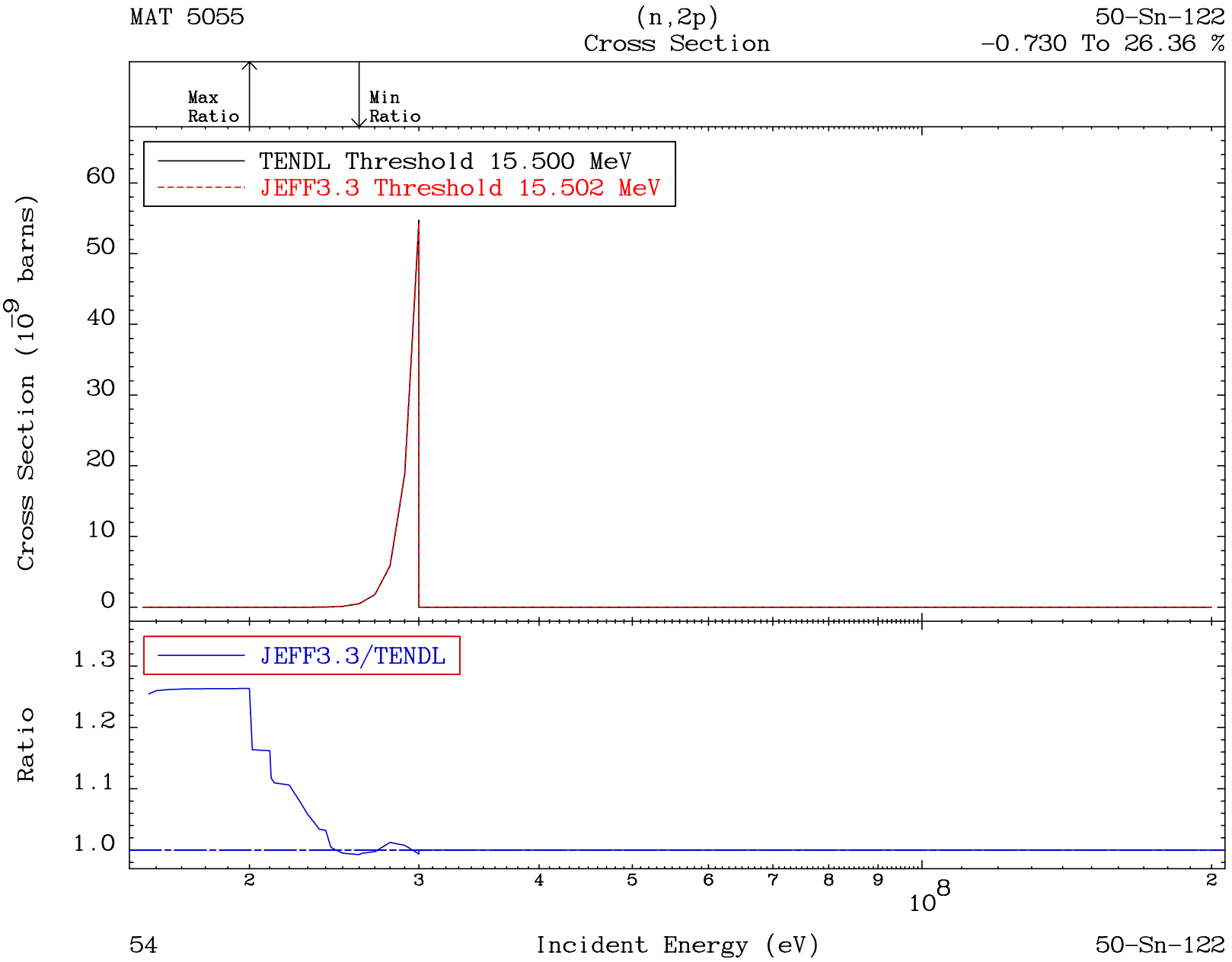

MAT 5055
(n,p)
Cross Section
50-Sn-122
-16.05 To 3.055 %
Max Ratio
Min Ratio
TENDL Threshold 5.6325 MeV
JEFF3.3 Threshold 5.6325 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.0
0.9
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
50-Sn-122

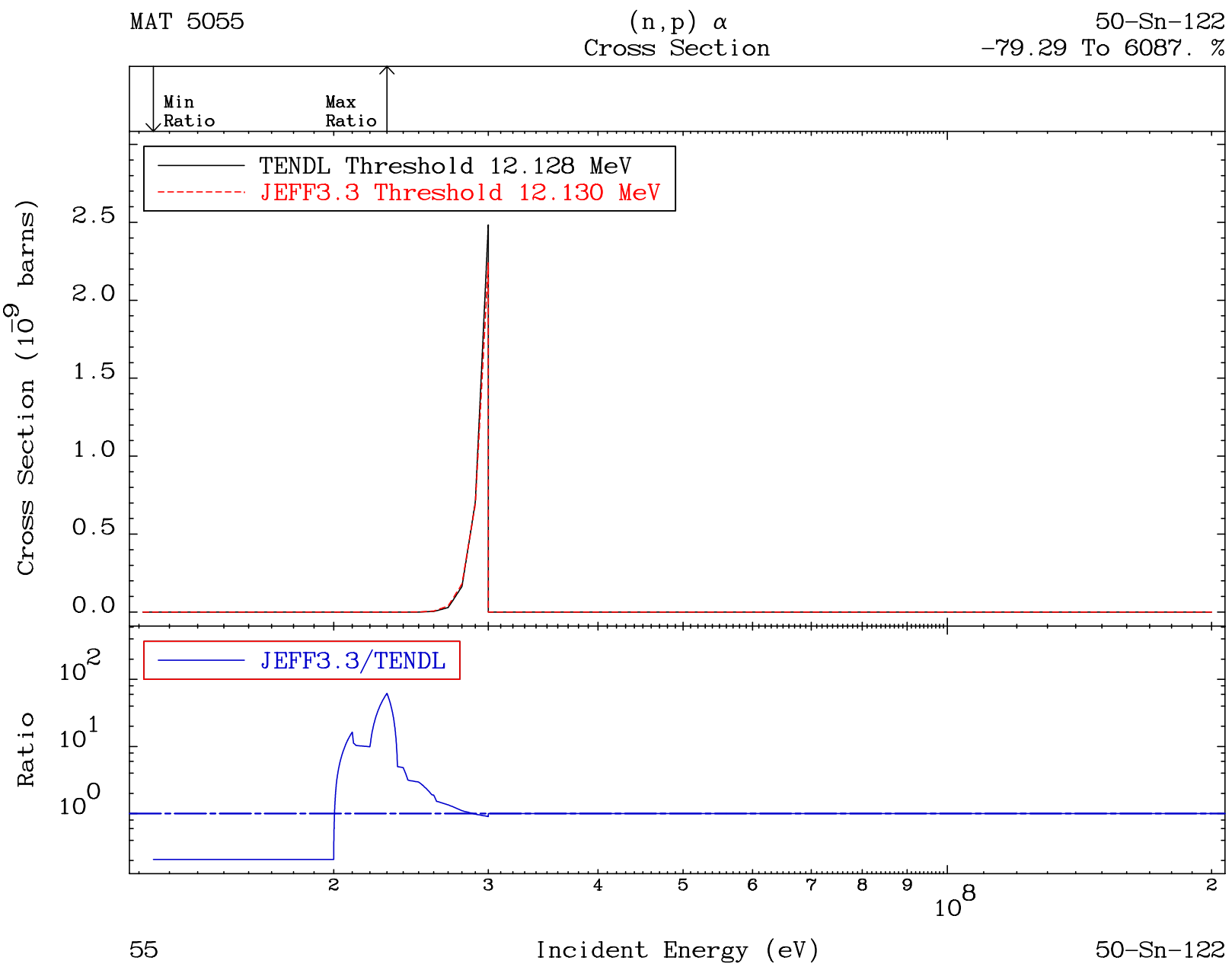

MAT 5055
(n,d)
Cross Section
50-Sn-122
-5.935 To 5.454 %
Max Ratio
Min Ratio
TENDL Threshold 9.2456 MeV
JEFF3.3 Threshold 9.2456 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
9
2
3
4
5
6
7
8
9
2
10^7
10^8
50
Incident Energy (eV)
50-Sn-122

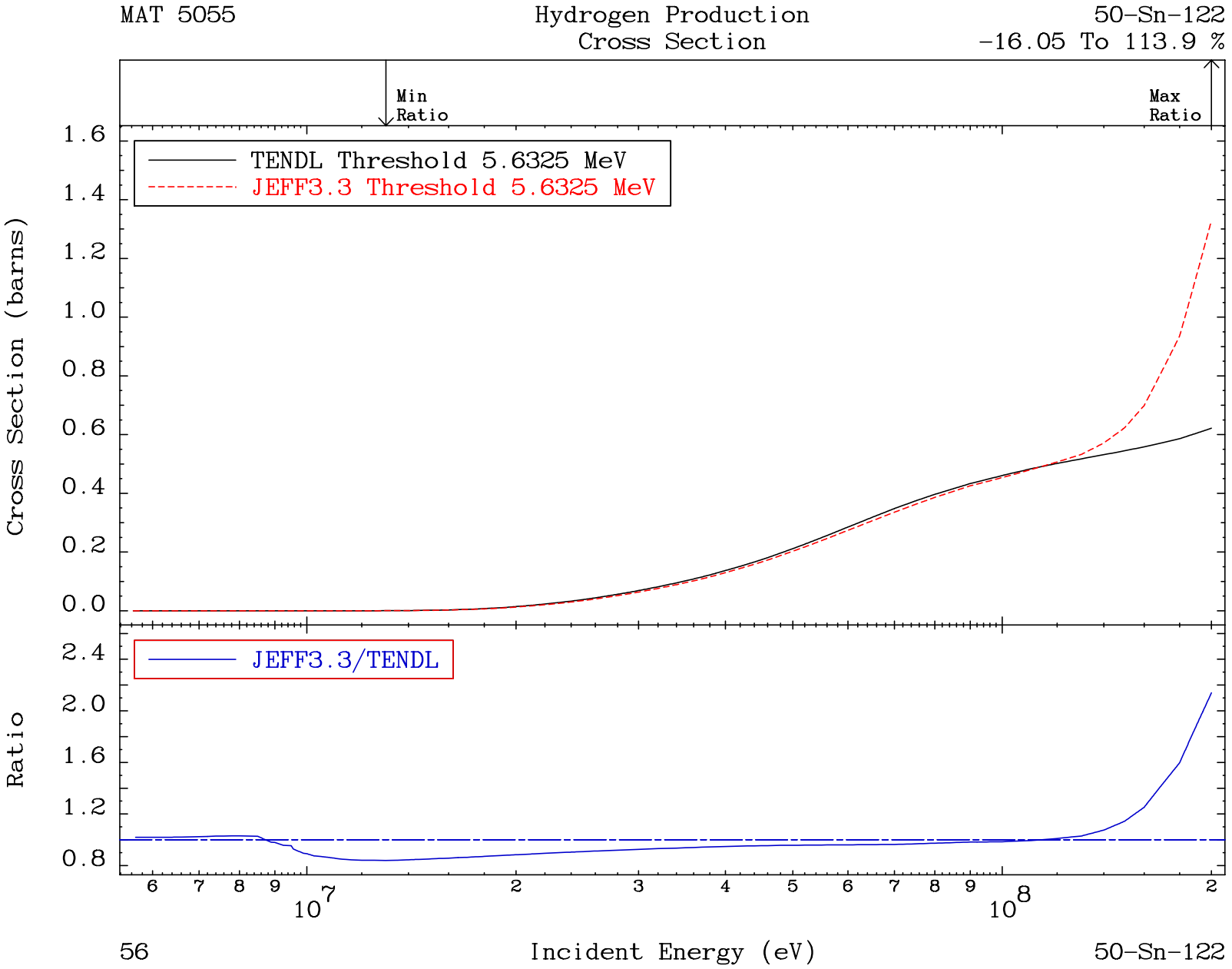

MAT 5055
(n,t)
Cross Section
50-Sn-122
-4.444 To 4.471 %
Max Ratio
Min Ratio
TENDL Threshold 11.183 MeV
JEFF3.3 Threshold 11.183 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
50-Sn-122

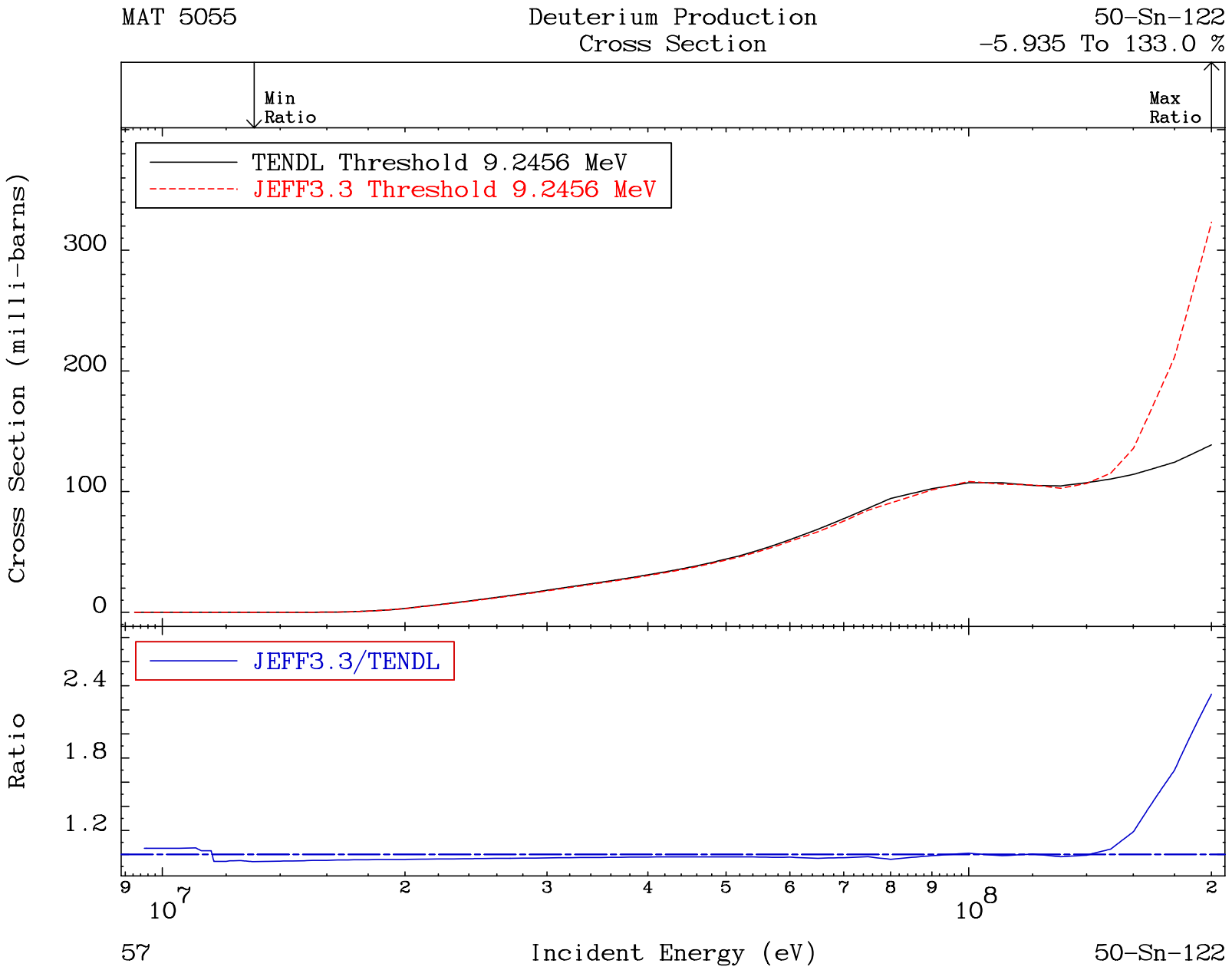

MAT 5055
(n,He-3)
Cross Section
50-Sn-122
-0.334 To 8.117 %
Max Ratio
Min Ratio
TENDL Threshold 12.949 MeV
JEFF3.3 Threshold 12.950 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
50-Sn-122

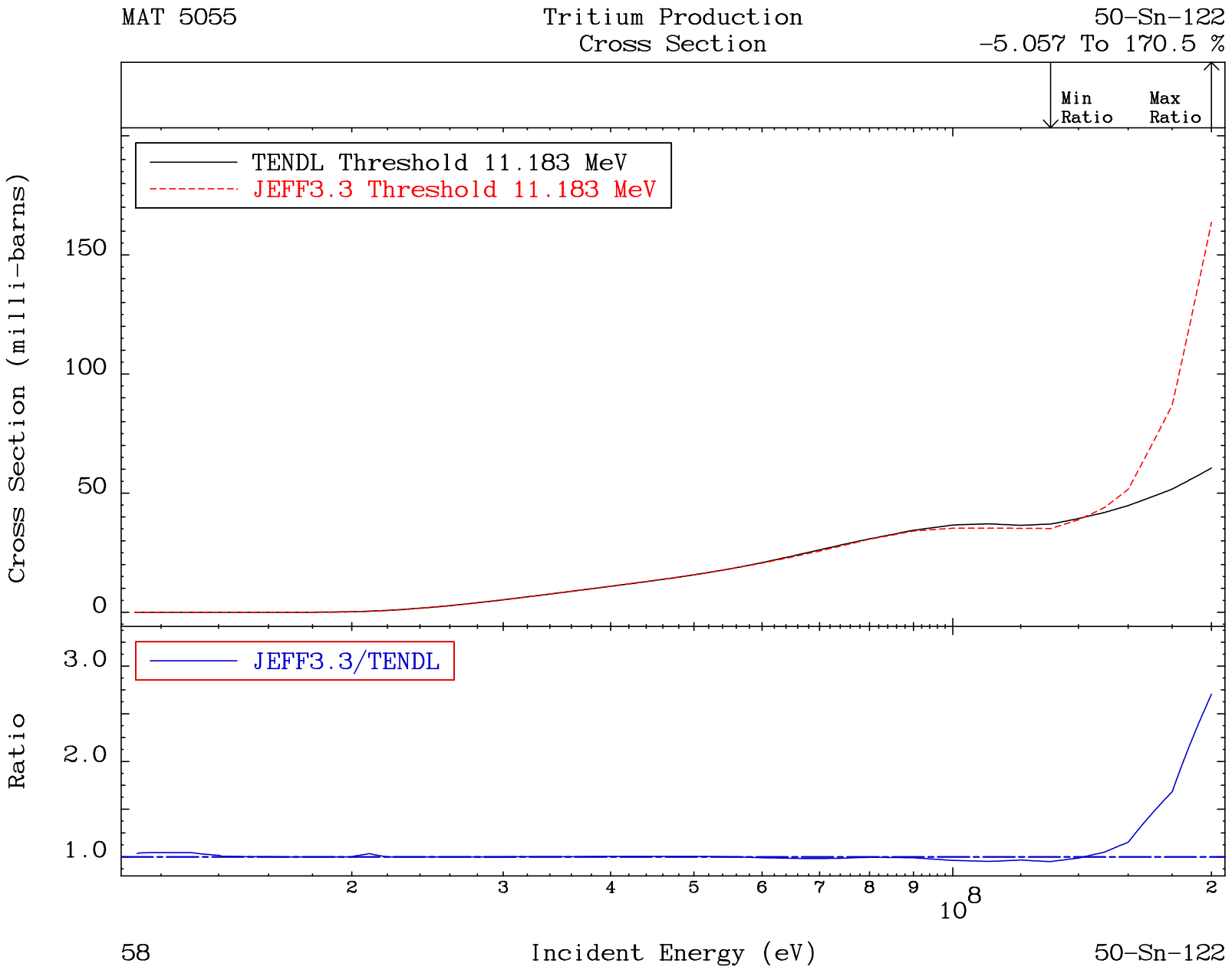

MAT 5055
(n,α)
Cross Section
50-Sn-122
-17.44 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 319.22 keV
JEFF3.3 Threshold 3.2000 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
53
50-Sn-122

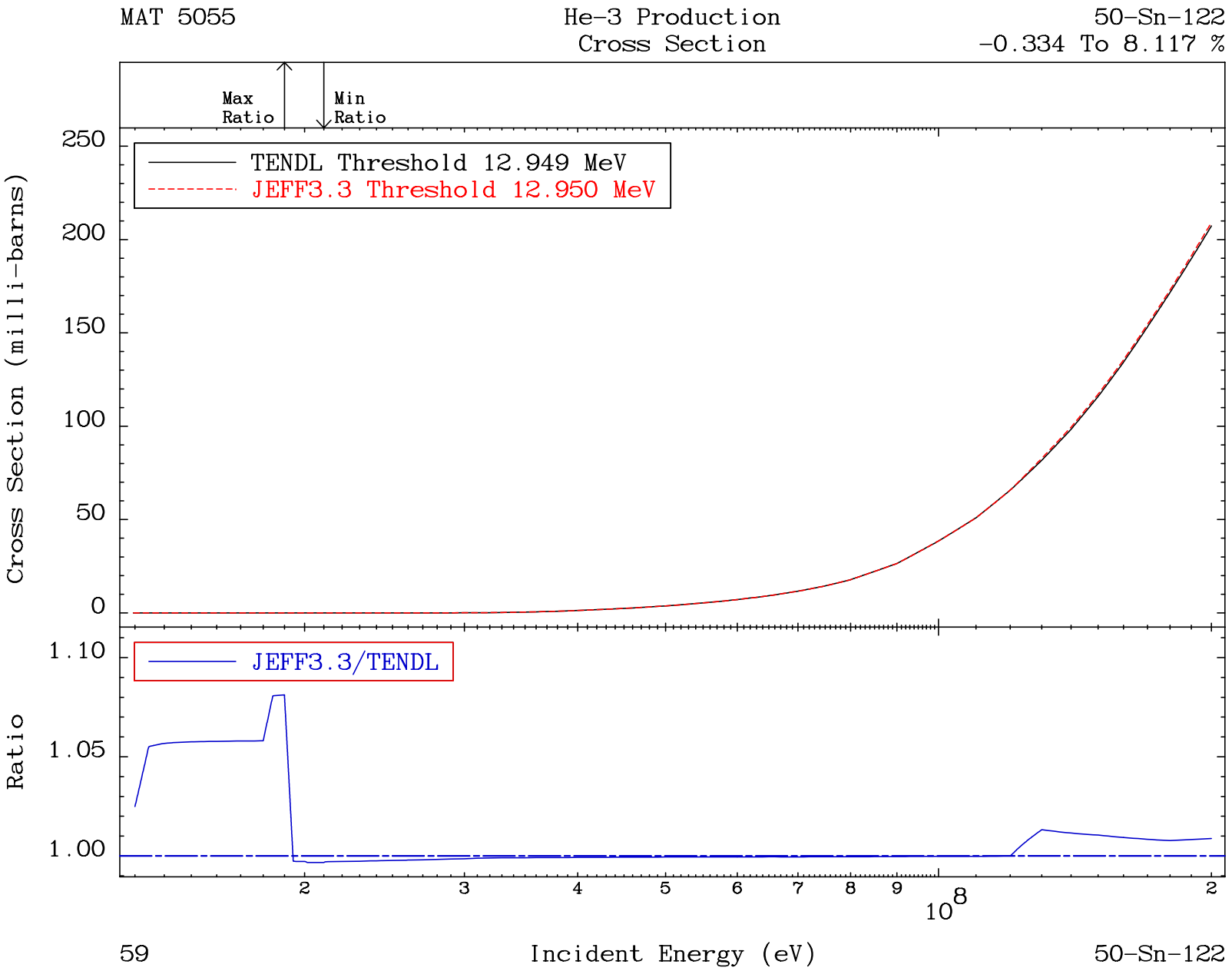

MAT 5055
(n,2p)
Cross Section
50-Sn-122
-0.730 To 26.36 %
Max Ratio
Min Ratio
TENDL Threshold 15.500 MeV
JEFF3.3 Threshold 15.502 MeV
Cross Section (10^{-9} barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.3
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
50-Sn-122

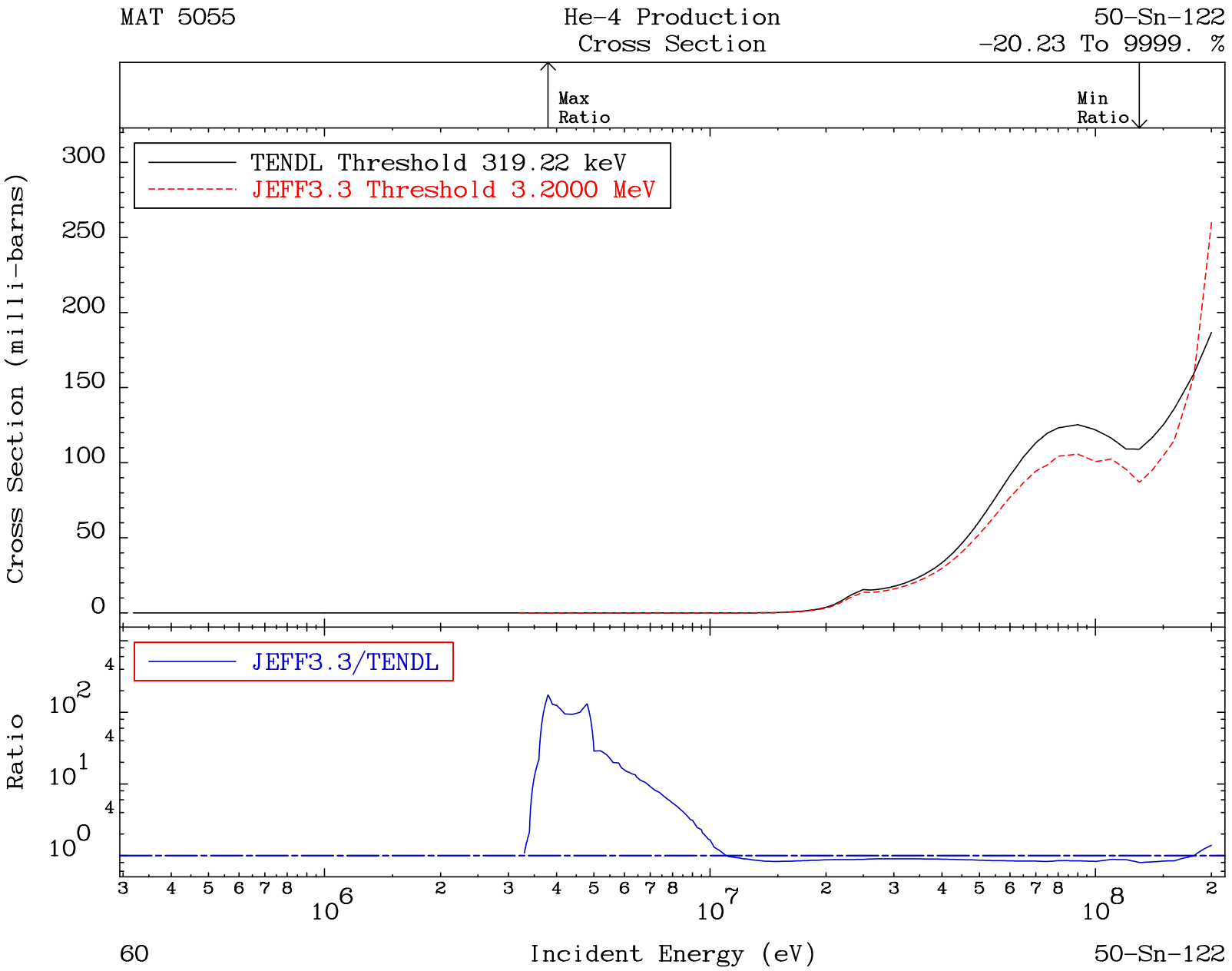

MAT 5055
(n,p) α
Cross Section
50-Sn-122
-79.29 To 6087. %
Min Ratio
Max Ratio
TENDL Threshold 12.128 MeV
JEFF3.3 Threshold 12.130 MeV
Cross Section (10^{-9} barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^{2}
10^{1}
10^{0}
2
3
4
5
6
7
8
9
10^{8}
2
55
Incident Energy (eV)
50-Sn-122

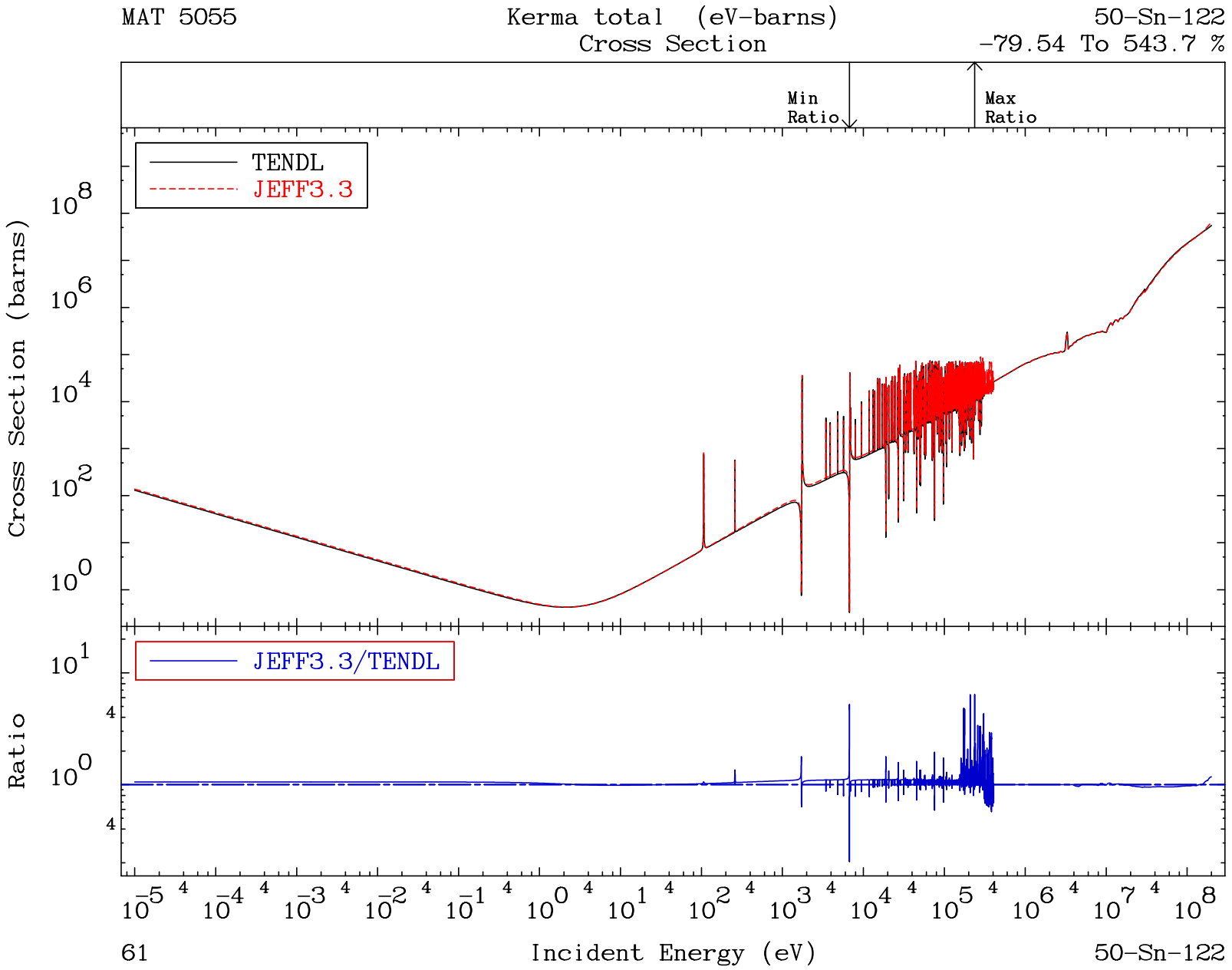

MAT 5055
Hydrogen Production
Cross Section
50-Sn-122
-16.05 To 113.9 %
Min Ratio
Max Ratio
TENDL Threshold 5.6325 MeV
JEFF3.3 Threshold 5.6325 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
2.4
2.0
1.6
1.2
0.8
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
56
Incident Energy (eV)
50-Sn-122

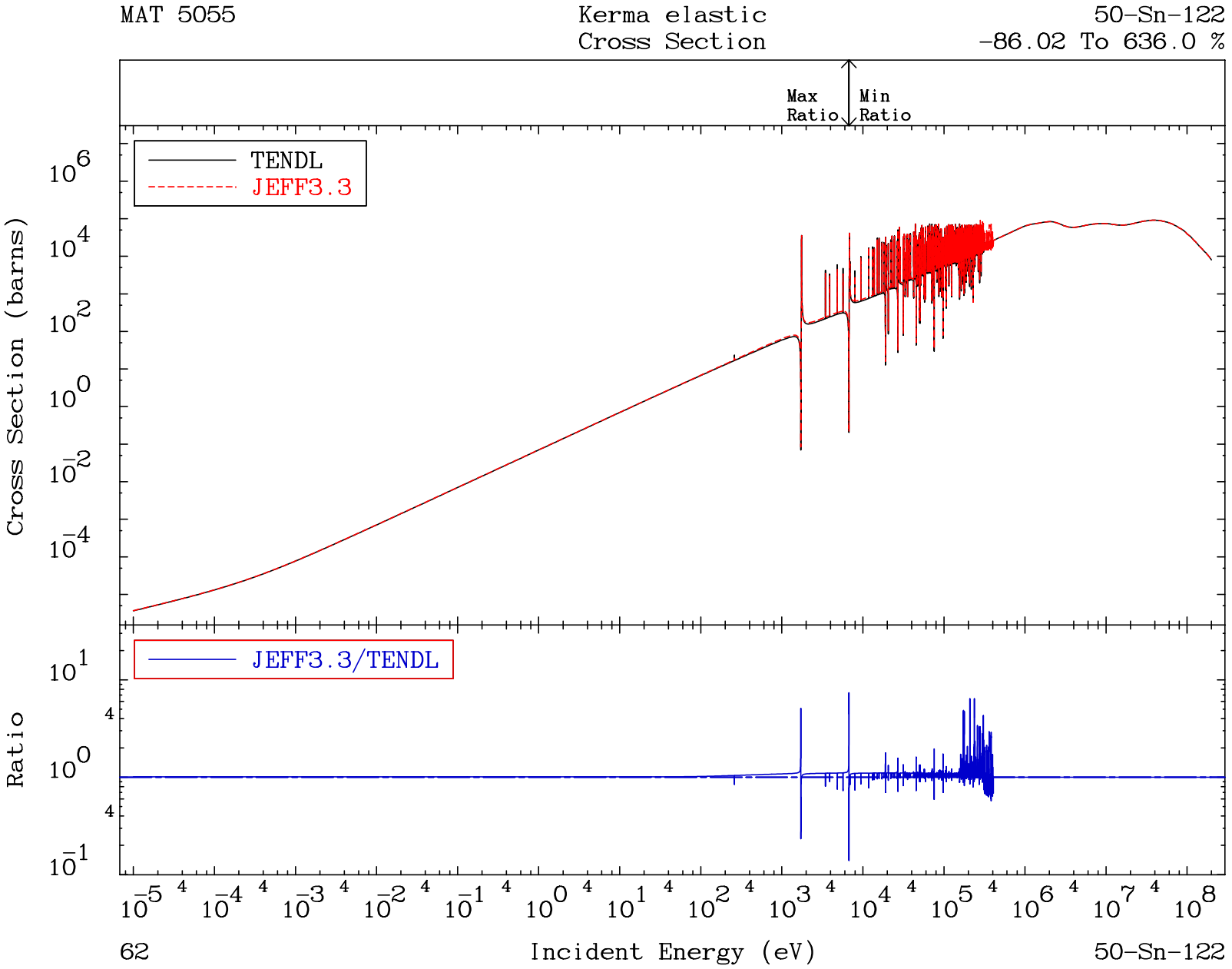

MAT 5055
Deuterium Production
Cross Section
50-Sn-122
-5.935 To 133.0 %
Min Ratio
Max Ratio
TENDL Threshold 9.2456 MeV
JEFF3.3 Threshold 9.2456 MeV
Cross Section (milli-barns)
300
200
100
0
JEFF3.3/TENDL
Ratio
2.4
1.8
1.2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
50-Sn-122

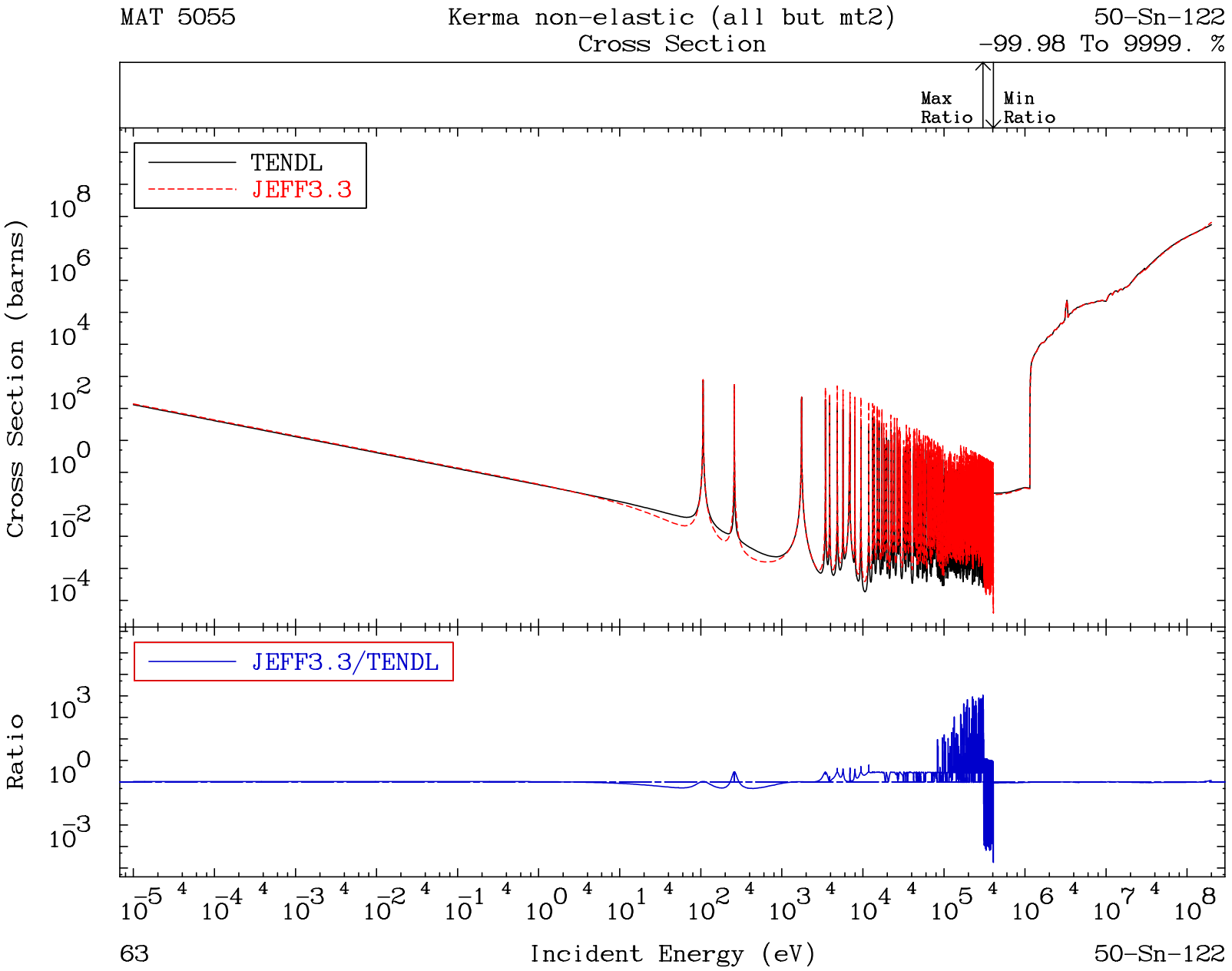

MAT 5055
Tritium Production
Cross Section
50-Sn-122
-5.057 To 170.5 %
Min Ratio
Max Ratio
TENDL Threshold 11.183 MeV
JEFF3.3 Threshold 11.183 MeV
Cross Section (milli-barns)
150
100
50
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
50-Sn-122

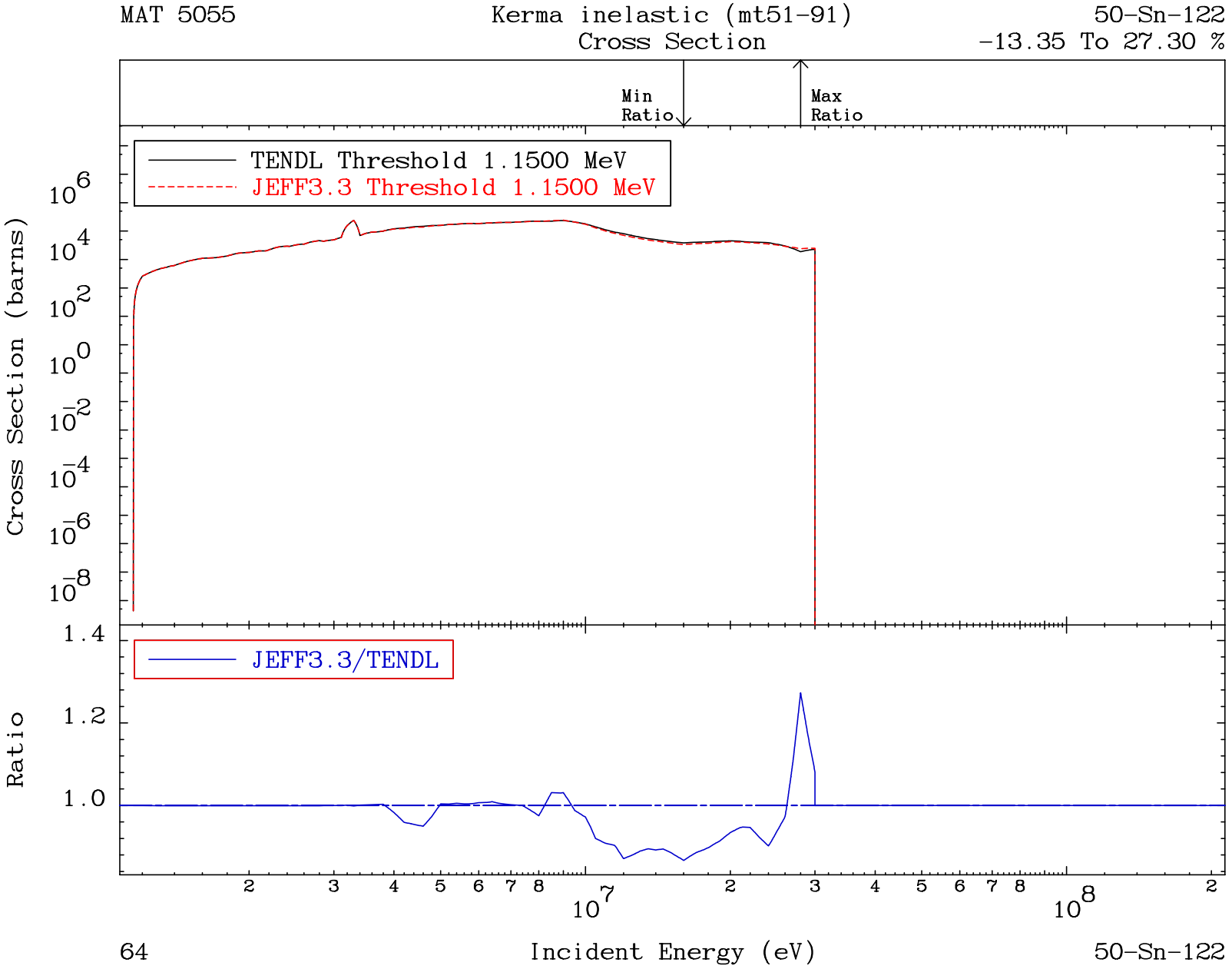

MAT 5055
He-3 Production
Cross Section
50-Sn-122
-0.334 To 8.117 %
Max Ratio
Min Ratio
TENDL Threshold 12.949 MeV
JEFF3.3 Threshold 12.950 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
50-Sn-122

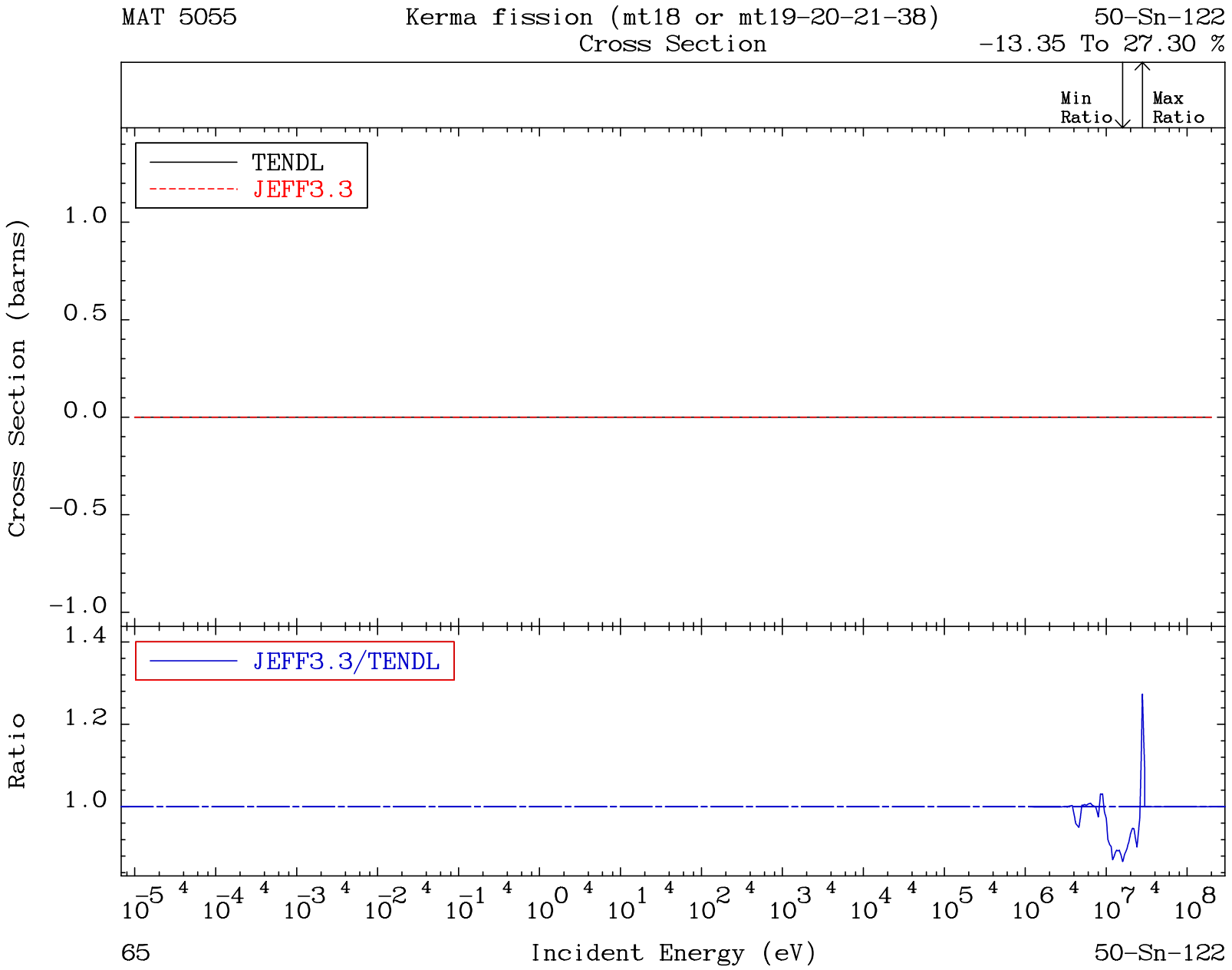

MAT 5055
He-4 Production
Cross Section
50-Sn-122
-20.23 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 319.22 keV
JEFF3.3 Threshold 3.2000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
60
Incident Energy (eV)
50-Sn-122

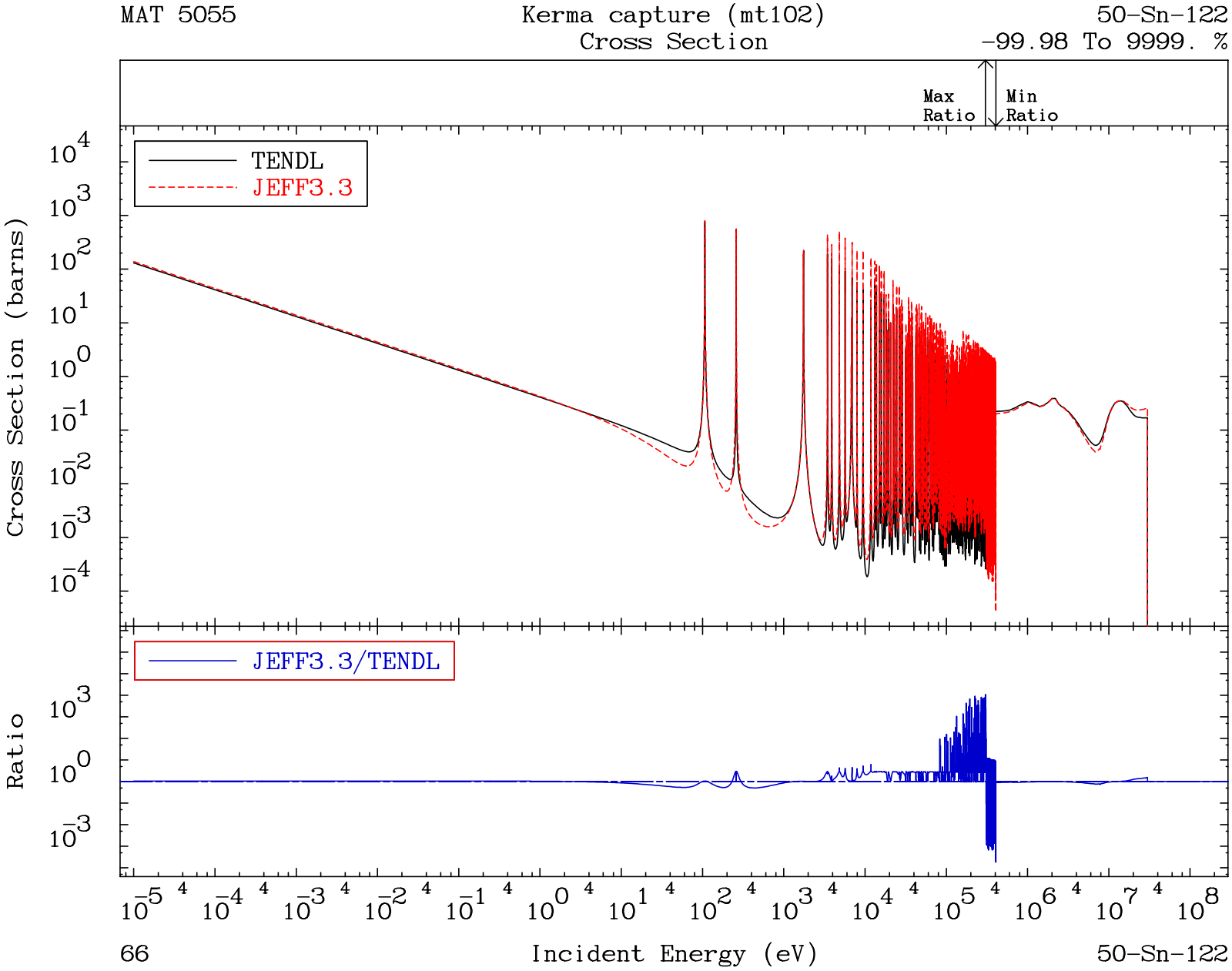

MAT 5055
Kerma total (eV-barns)
Cross Section
50-Sn-122
-79.54 To 543.7 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
61
50-Sn-122

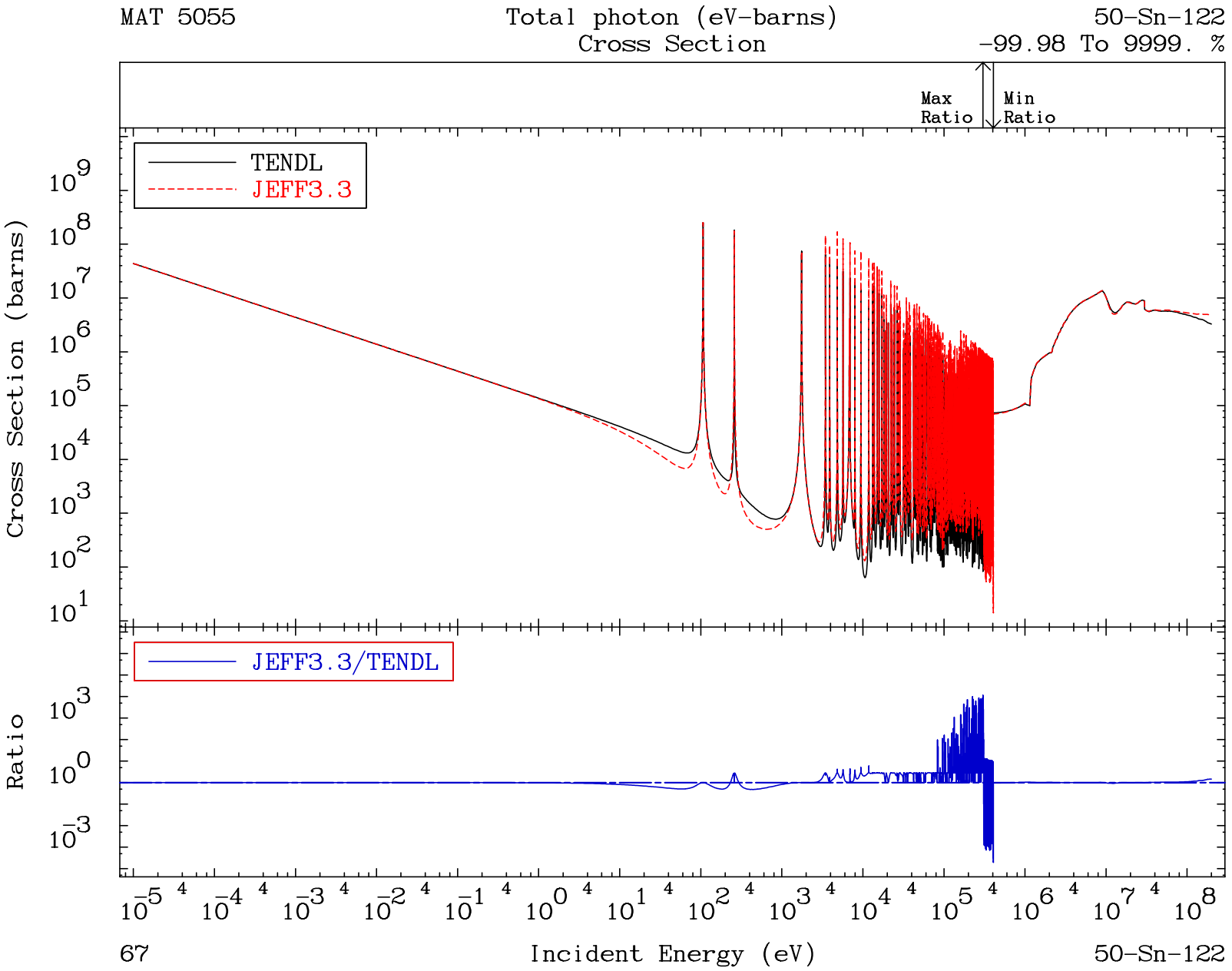

MAT 5055
Kerma elastic
Cross Section
50-Sn-122
-86.02 To 636.0 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
62
50-Sn-122

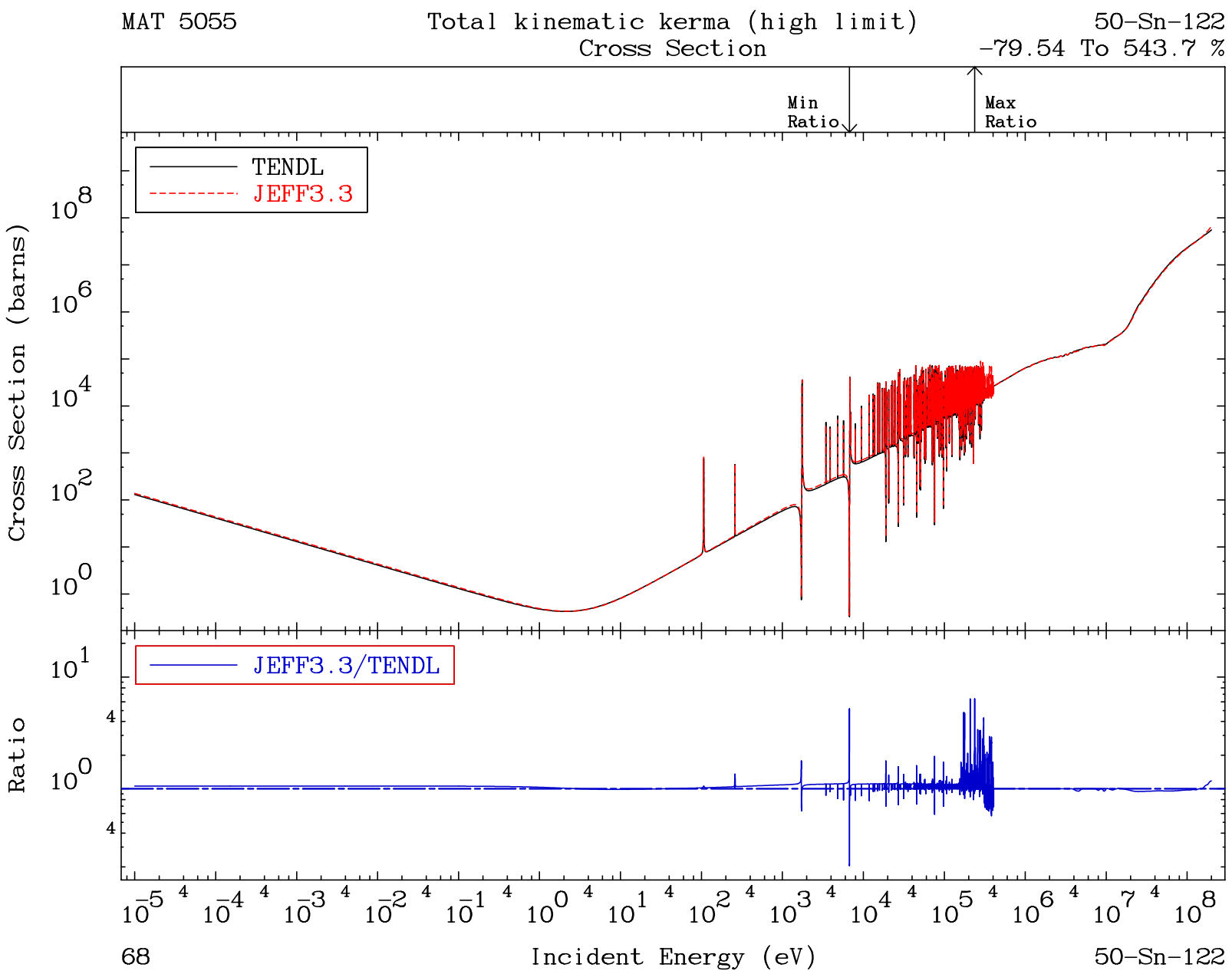

MAT 5055
Kerma non-elastic (all but mt2)
Cross Section
50-Sn-122
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
63
50-Sn-122

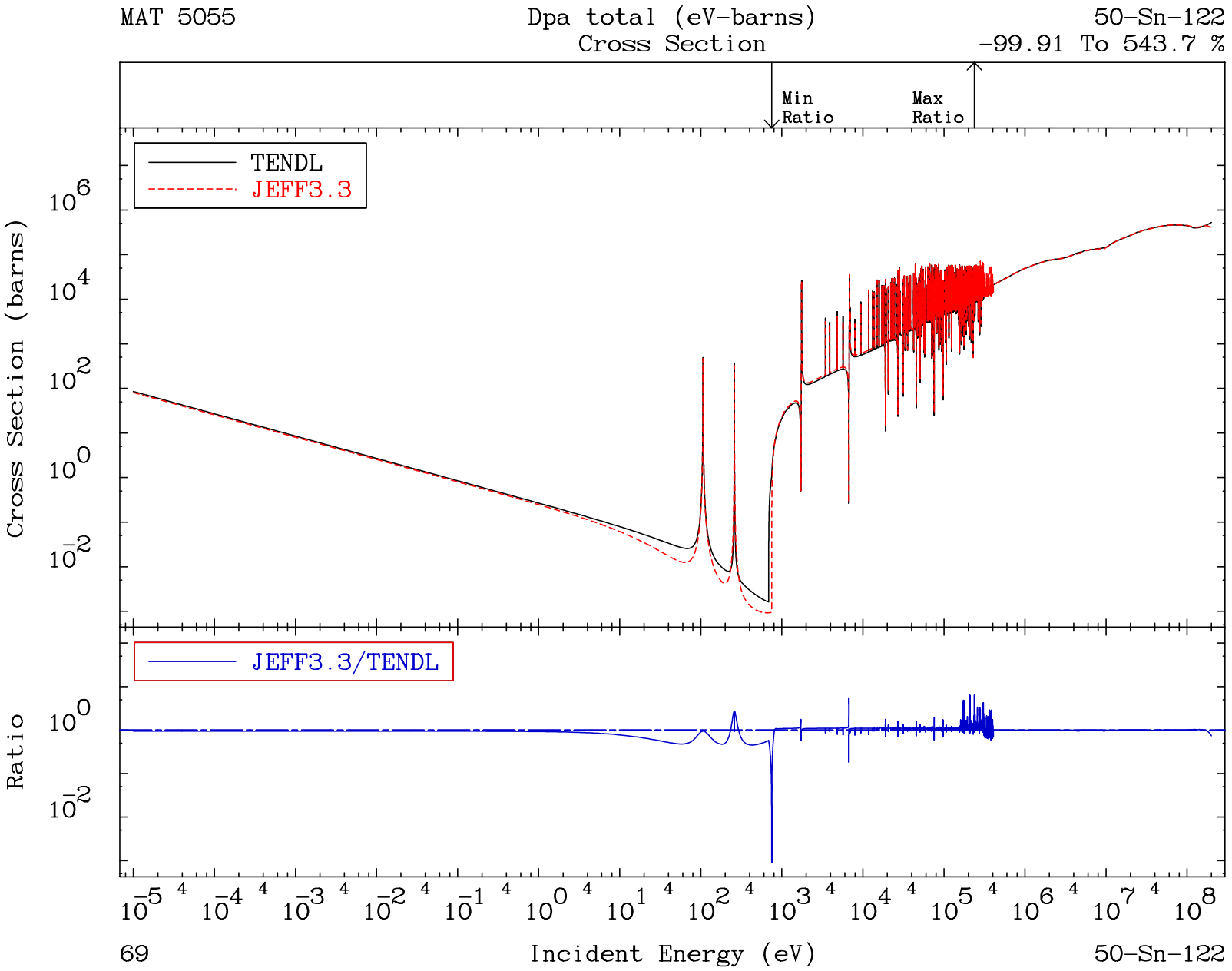

MAT 5055
Kerma inelastic (mt51-91)
Cross Section
50-Sn-122
-13.35 To 27.30 %
Min Ratio
Max Ratio
TENDL Threshold 1.1500 MeV
JEFF3.3 Threshold 1.1500 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
50-Sn-122

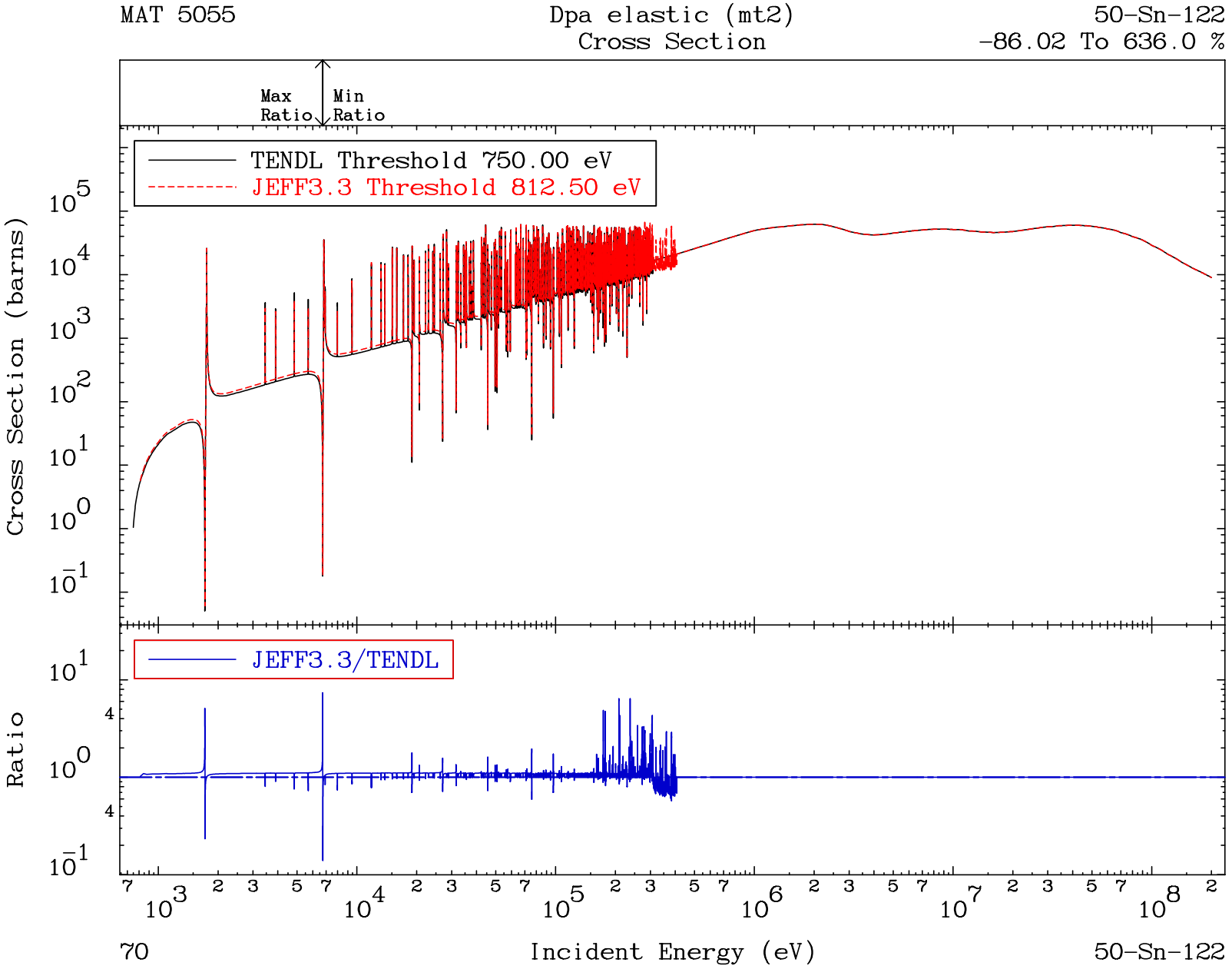

MAT 5055
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
50-Sn-122
-13.35 To 27.30 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
65
Incident Energy (eV)
50-Sn-122

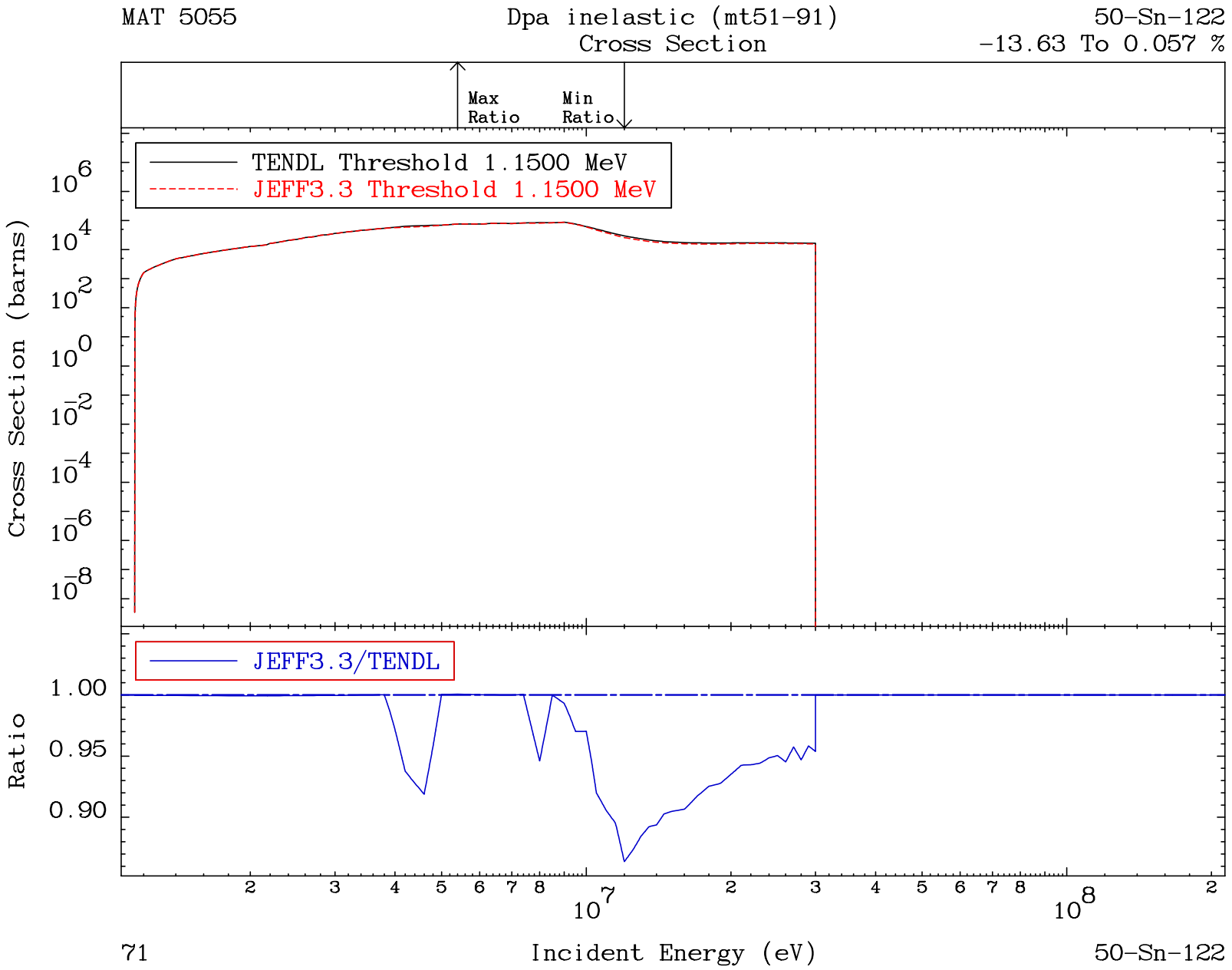

MAT 5055
Kerma capture (mt102)
Cross Section
50-Sn-122
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
66
Incident Energy (eV)
50-Sn-122

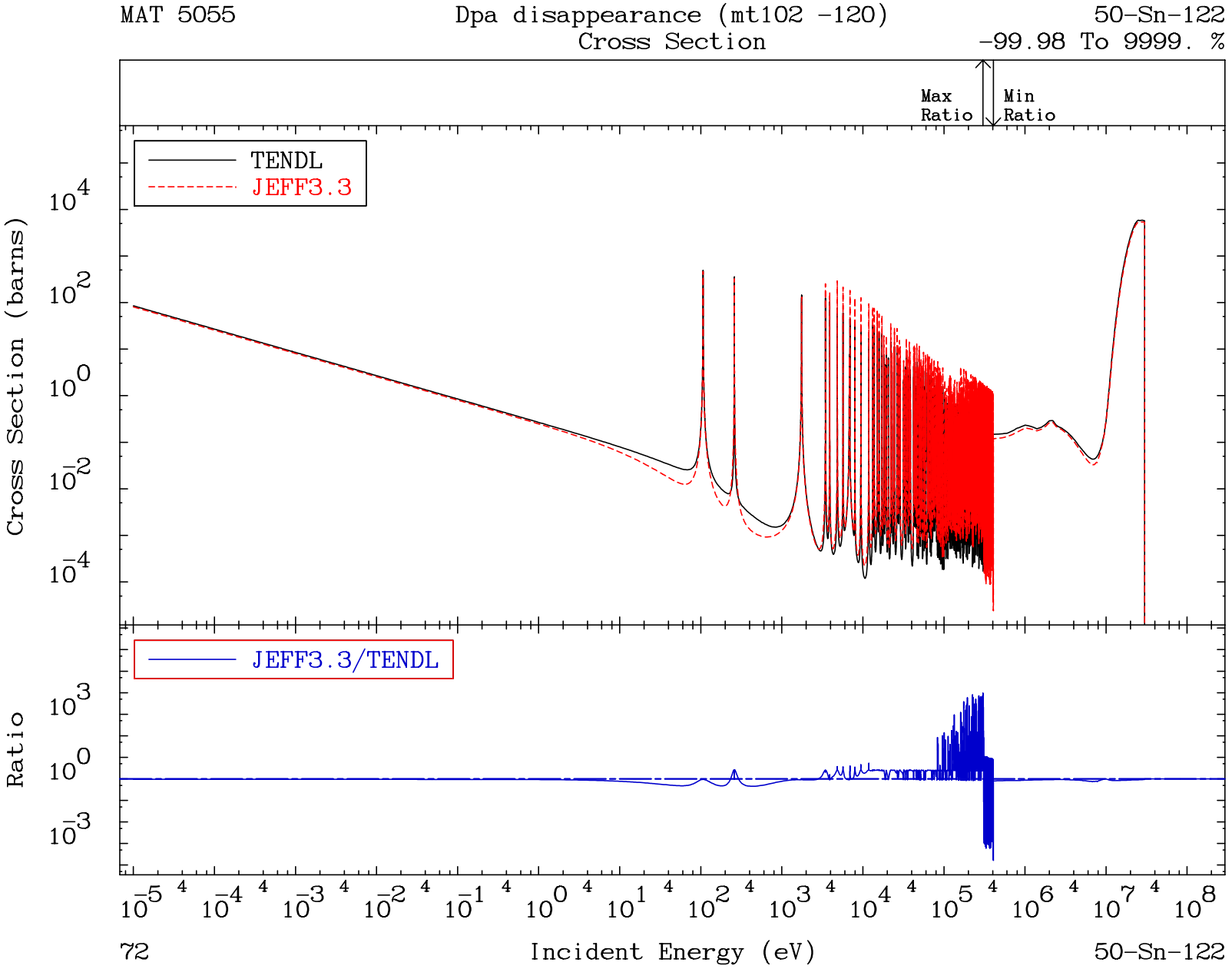

MAT 5055
Total photon (eV-barns)
Cross Section
50-Sn-122
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
67
50-Sn-122

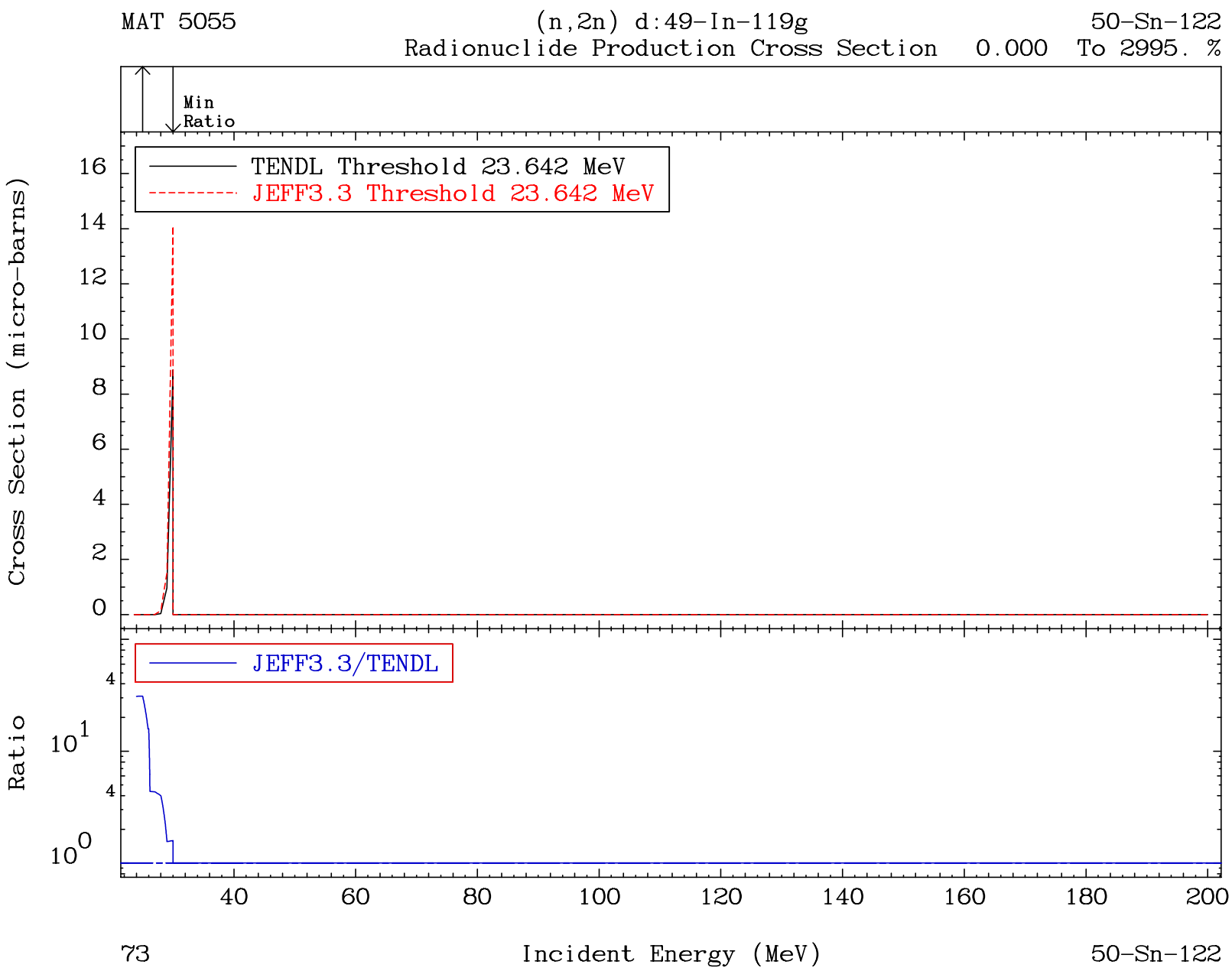

MAT 5055
Total kinematic kerma (high limit)
Cross Section
50-Sn-122
-79.54 To 543.7 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
50-Sn-122

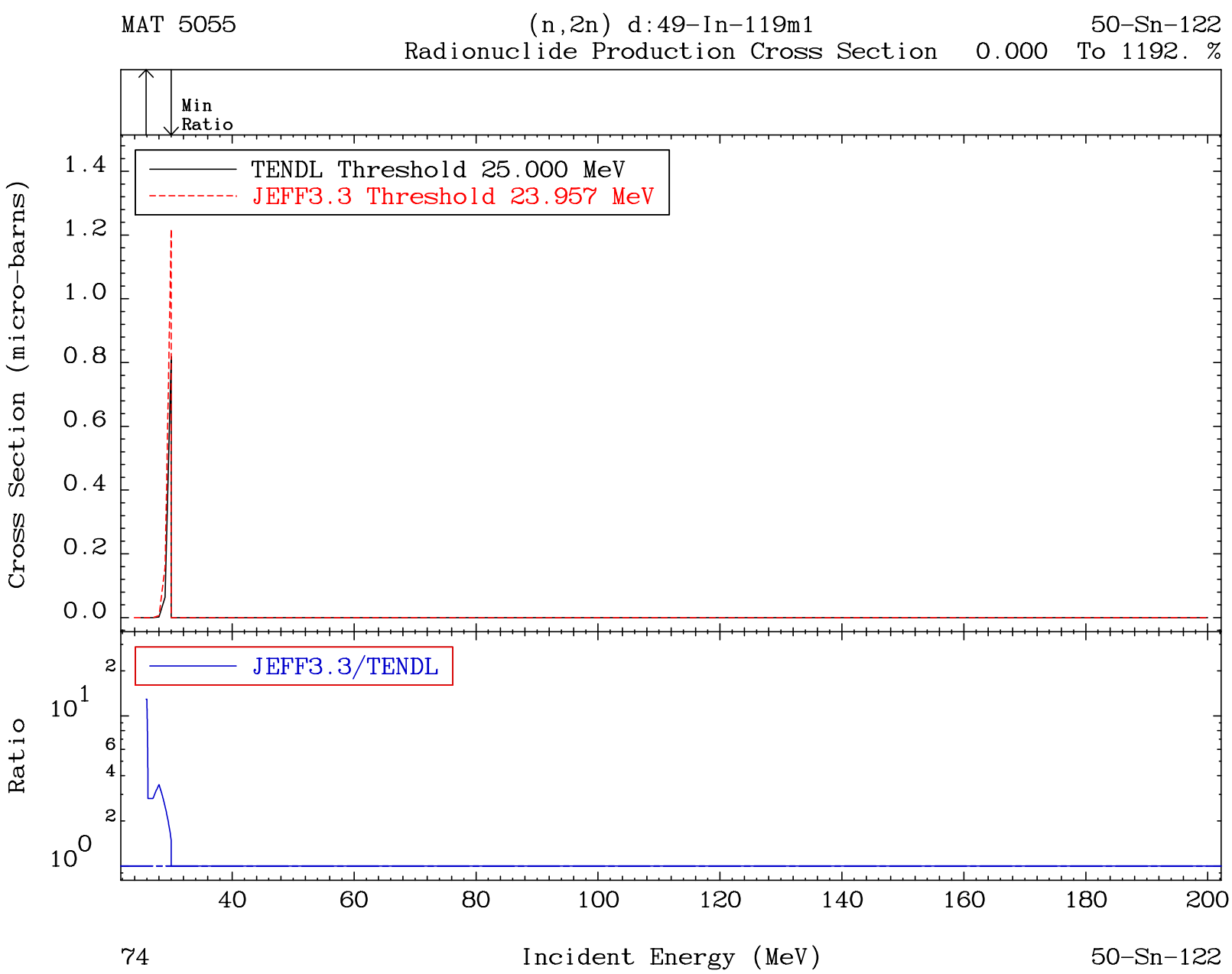

MAT 5055
Dpa total (eV-barns)
Cross Section
50-Sn-122
-99.91 To 543.7 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
50-Sn-122

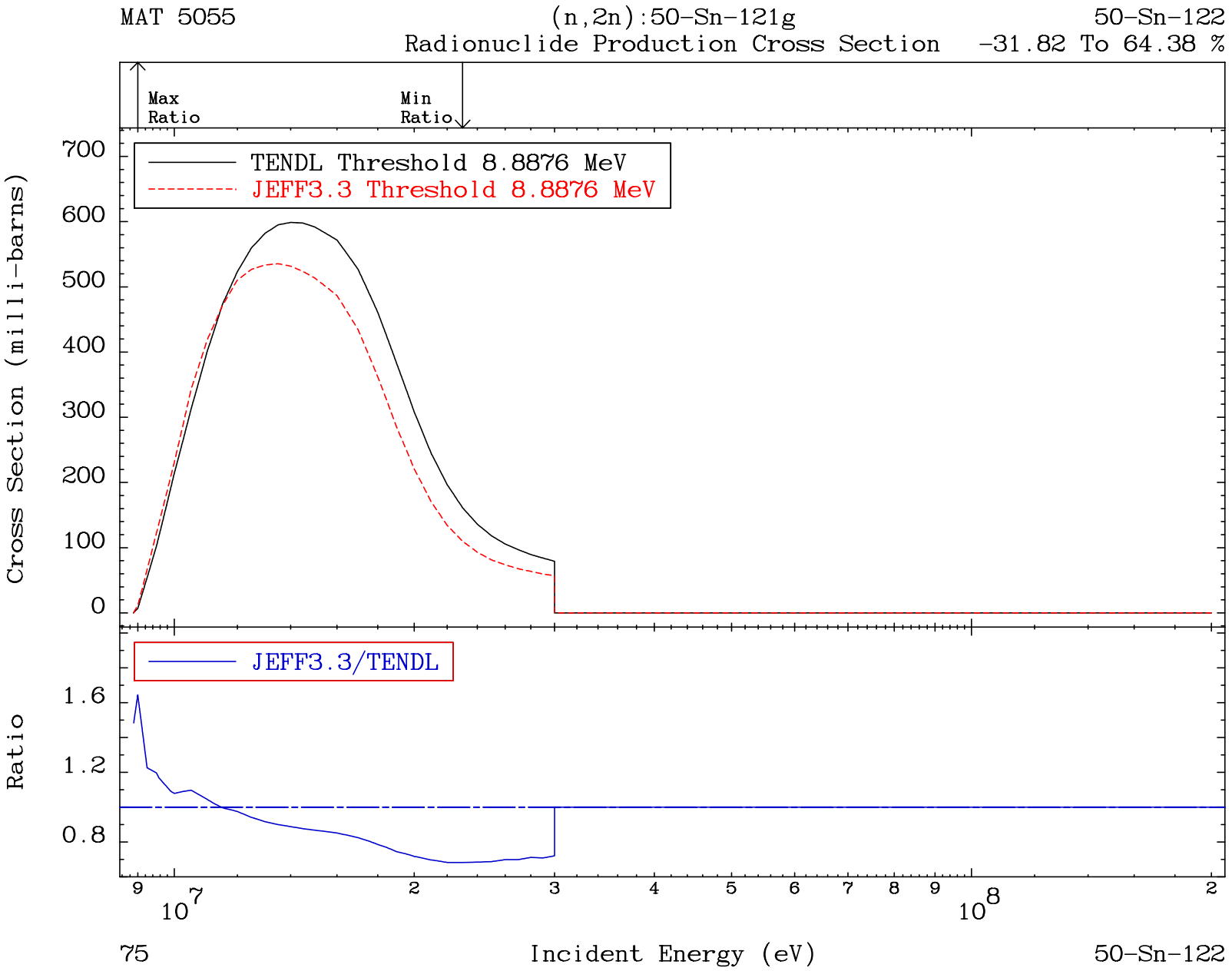

MAT 5055
Dpa elastic (mt2)
Cross Section
50-Sn-122
-86.02 To 636.0 %
Max Ratio
Min Ratio
TENDL Threshold 750.00 eV
JEFF3.3 Threshold 812.50 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
50-Sn-122

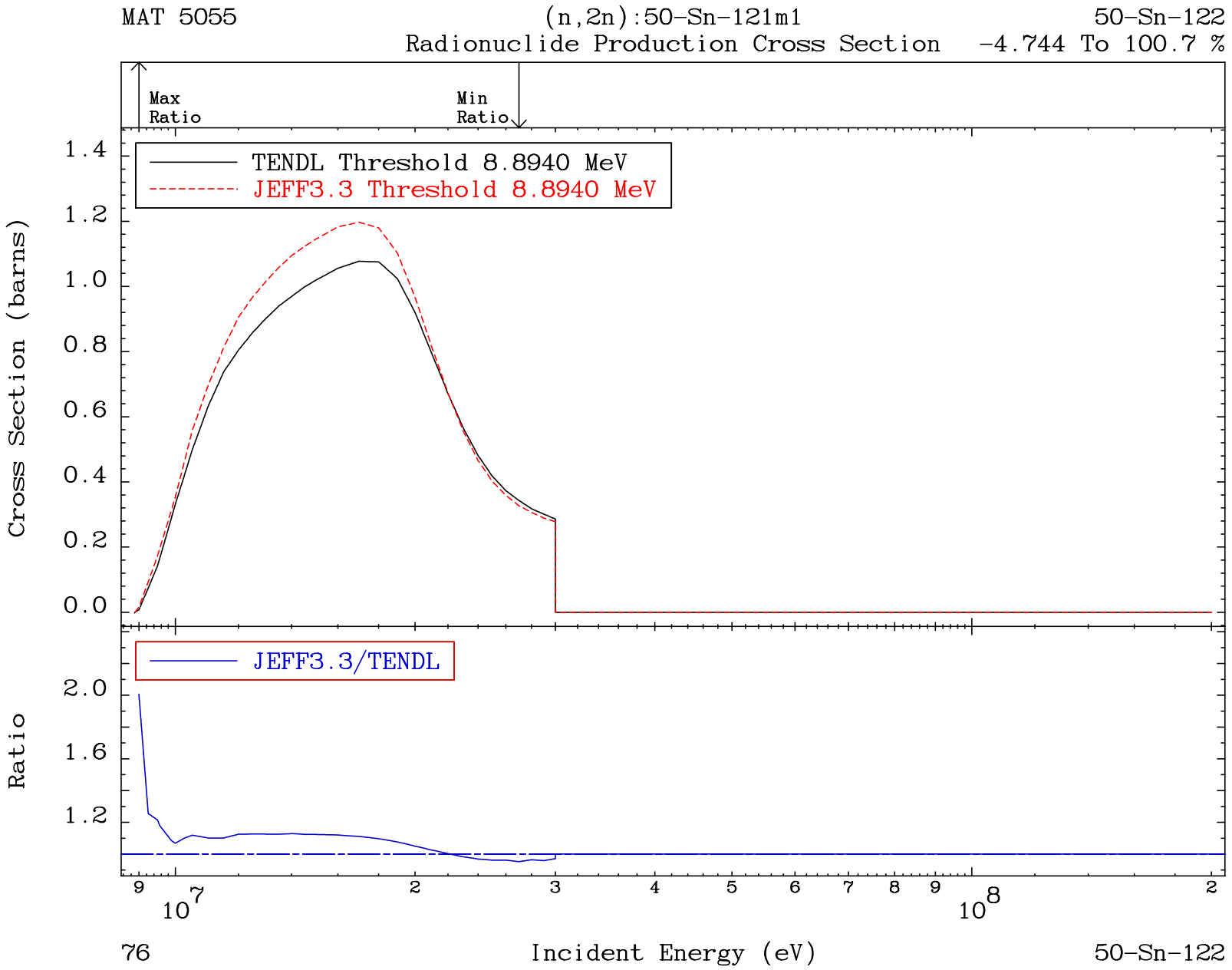

MAT 5055
Dpa inelastic (mt51-91)
Cross Section
50-Sn-122
-13.63 To 0.057 %
Max Ratio
Min Ratio
TENDL Threshold 1.1500 MeV
JEFF3.3 Threshold 1.1500 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
71
50-Sn-122

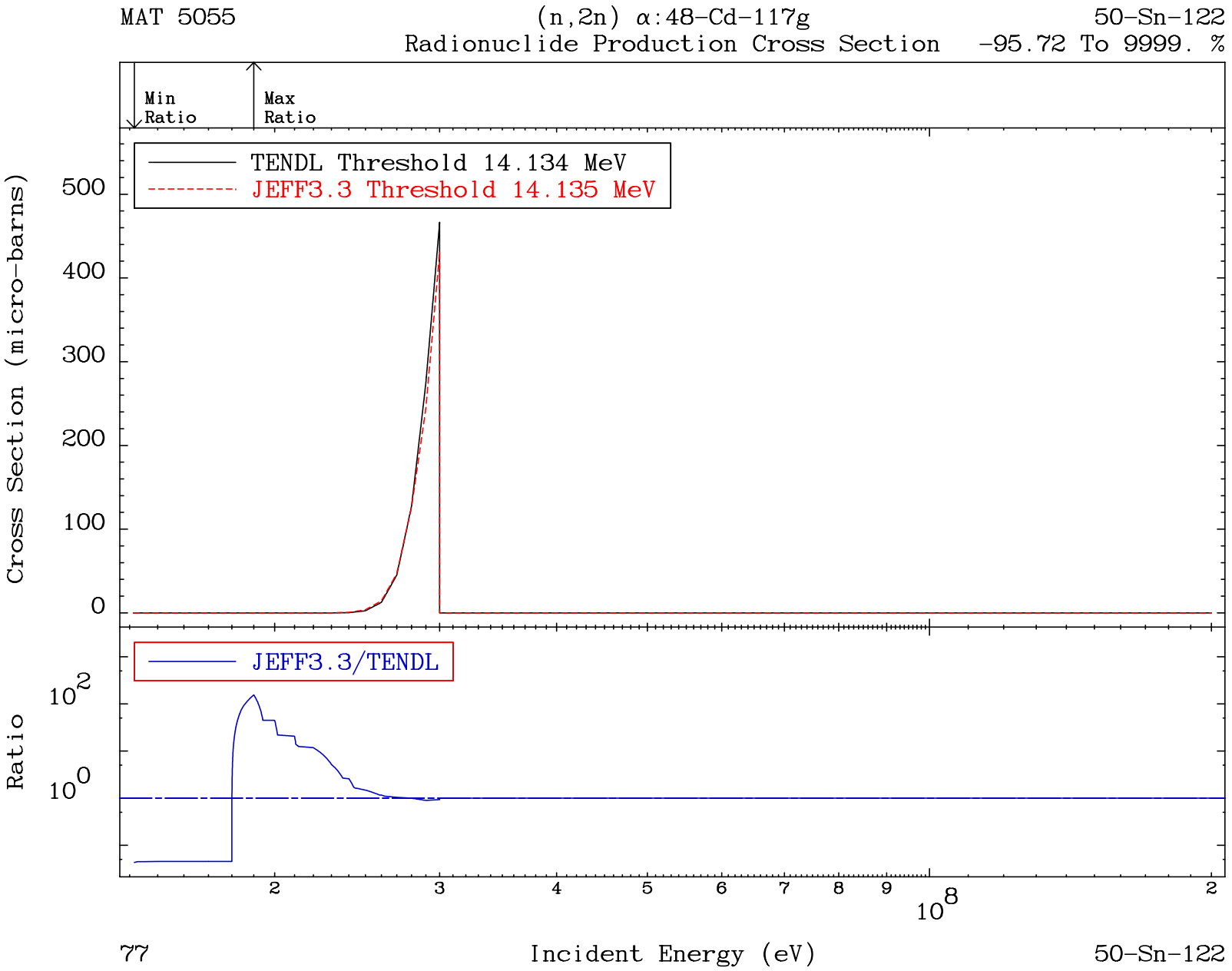

MAT 5055
Dpa disappearance (mt102 -120)
Cross Section
50-Sn-122
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
50-Sn-122

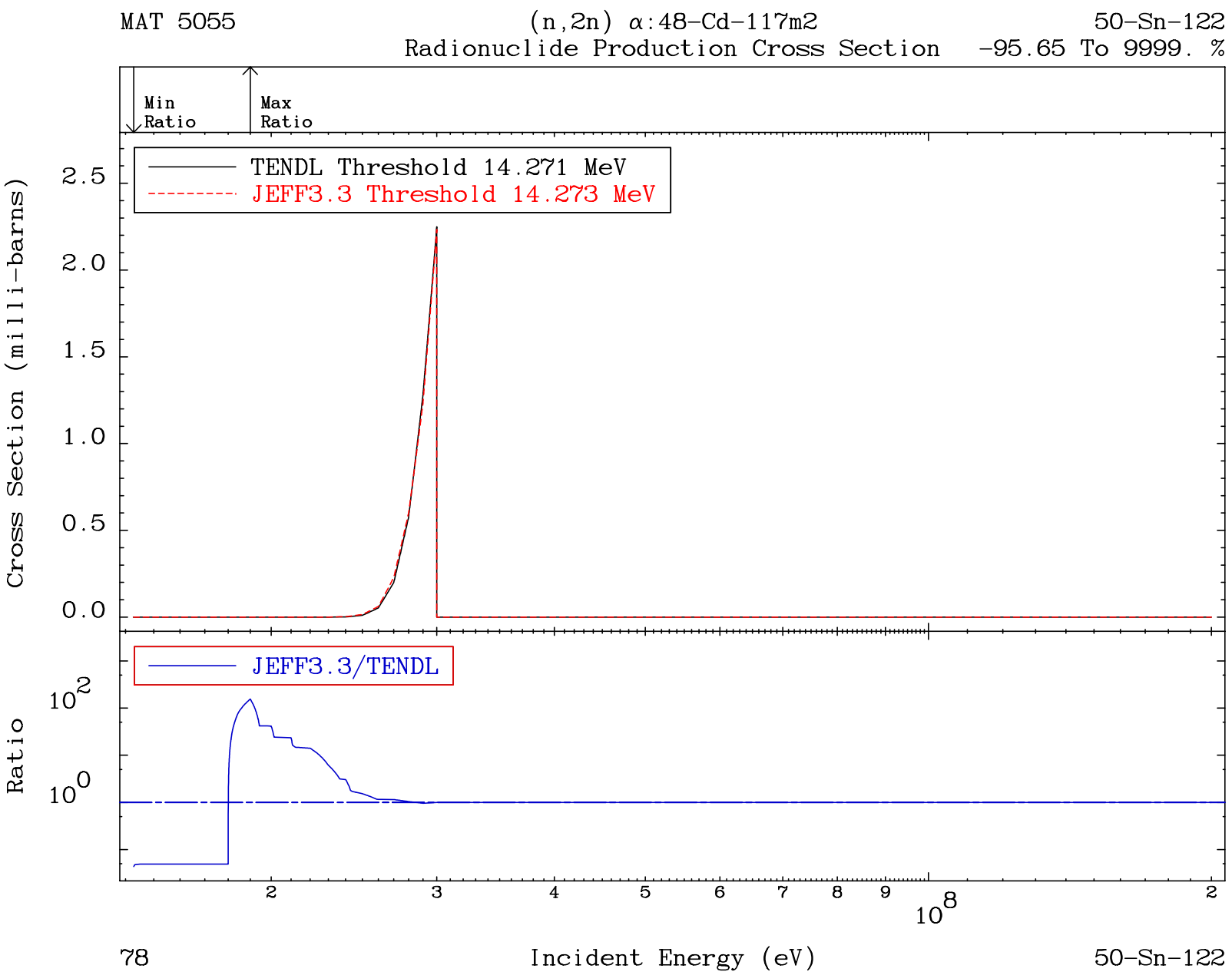

MAT 5055
(n,2n) d:49-In-119g
50-Sn-122
Radionuclide Production Cross Section 0.000 To 2995. %
Min Ratio
TENDL Threshold 23.642 MeV
JEFF3.3 Threshold 23.642 MeV
Cross Section (micro-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
4
10^1
4
10^0
40
60
80
100
120
140
160
180
200
73
Incident Energy (MeV)
50-Sn-122

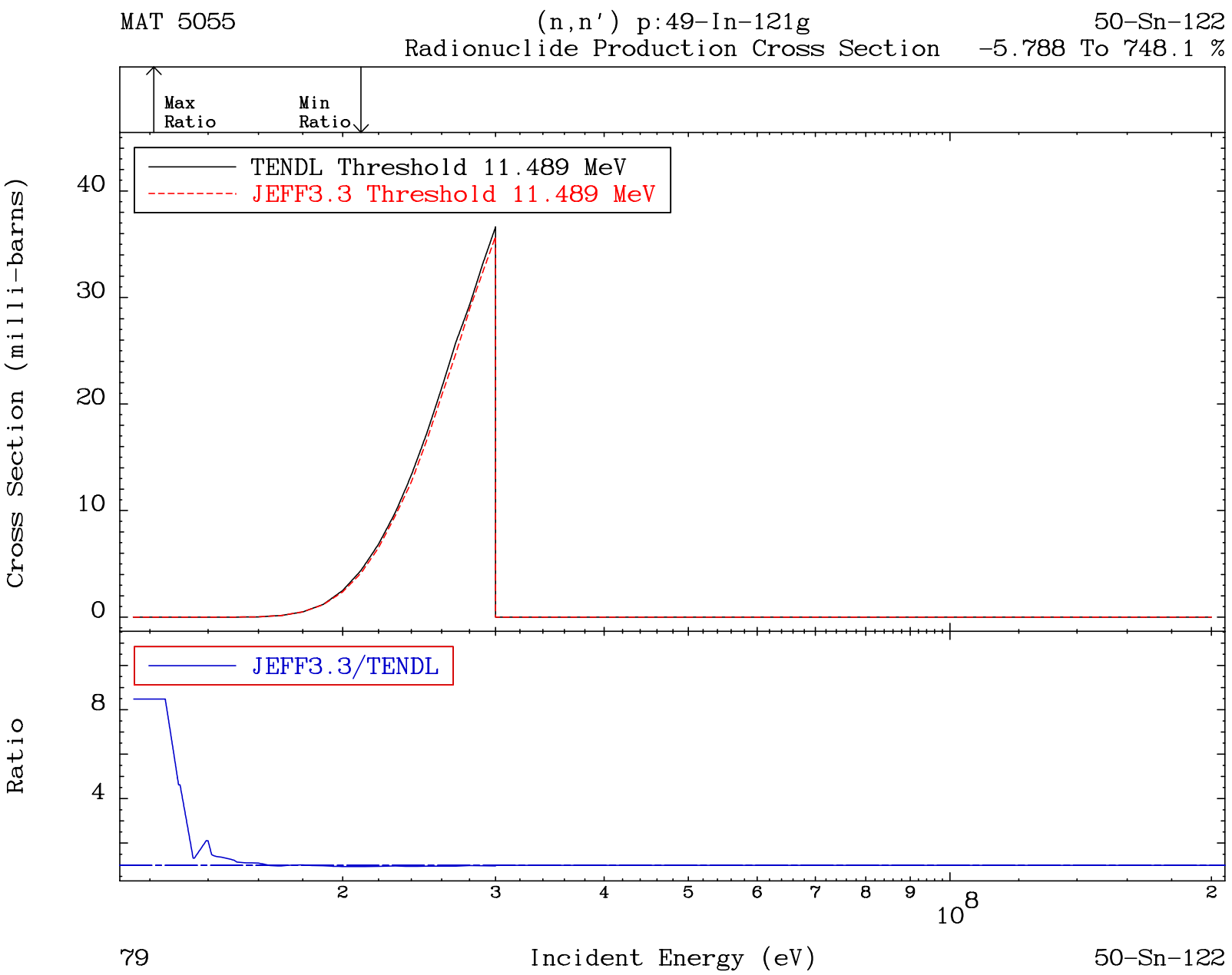

MAT 5055
(n,2n) d:49-In-119m1
50-Sn-122
Radionuclide Production Cross Section 0.000 To 1192. %
Min
Ratio
TENDL Threshold 25.000 MeV
JEFF3.3 Threshold 23.957 MeV
Cross Section (micro-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
2
10^1
6
4
2
10^0
40
60
80
100
120
140
160
180
200
74
Incident Energy (MeV)
50-Sn-122

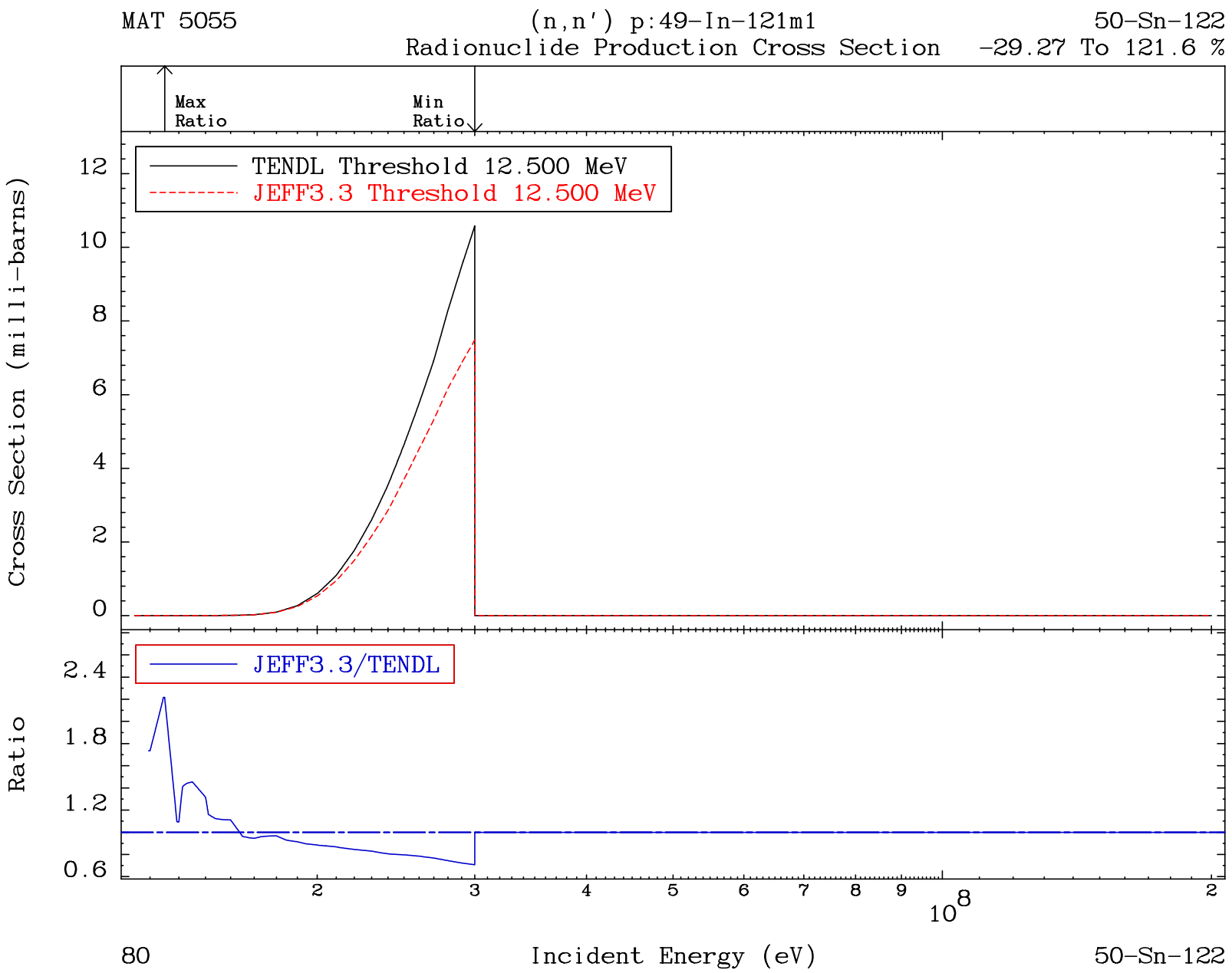

MAT 5055
(n,2n):50-Sn-121g
50-Sn-122
Radionuclide Production Cross Section
-31.82 To 64.38 %
Max Ratio
Min Ratio
TENDL Threshold 8.8876 MeV
JEFF3.3 Threshold 8.8876 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.6
1.2
0.8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
75
Incident Energy (eV)
50-Sn-122

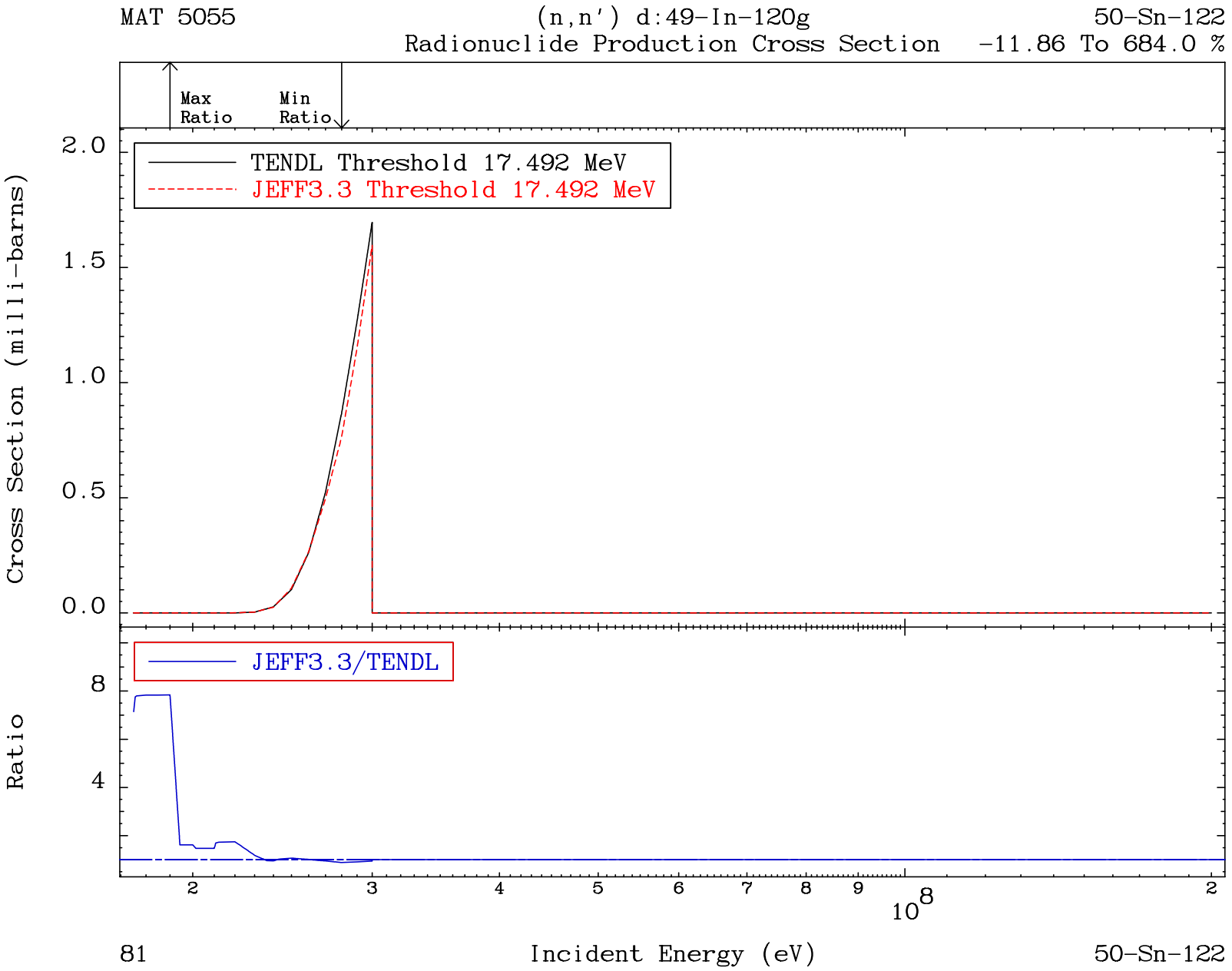

MAT 5055
(n,2n):50-Sn-121m1
50-Sn-122
Radionuclide Production Cross Section -4.744 To 100.7 %
Max Ratio
Min Ratio
TENDL Threshold 8.8940 MeV
JEFF3.3 Threshold 8.8940 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
50-Sn-122

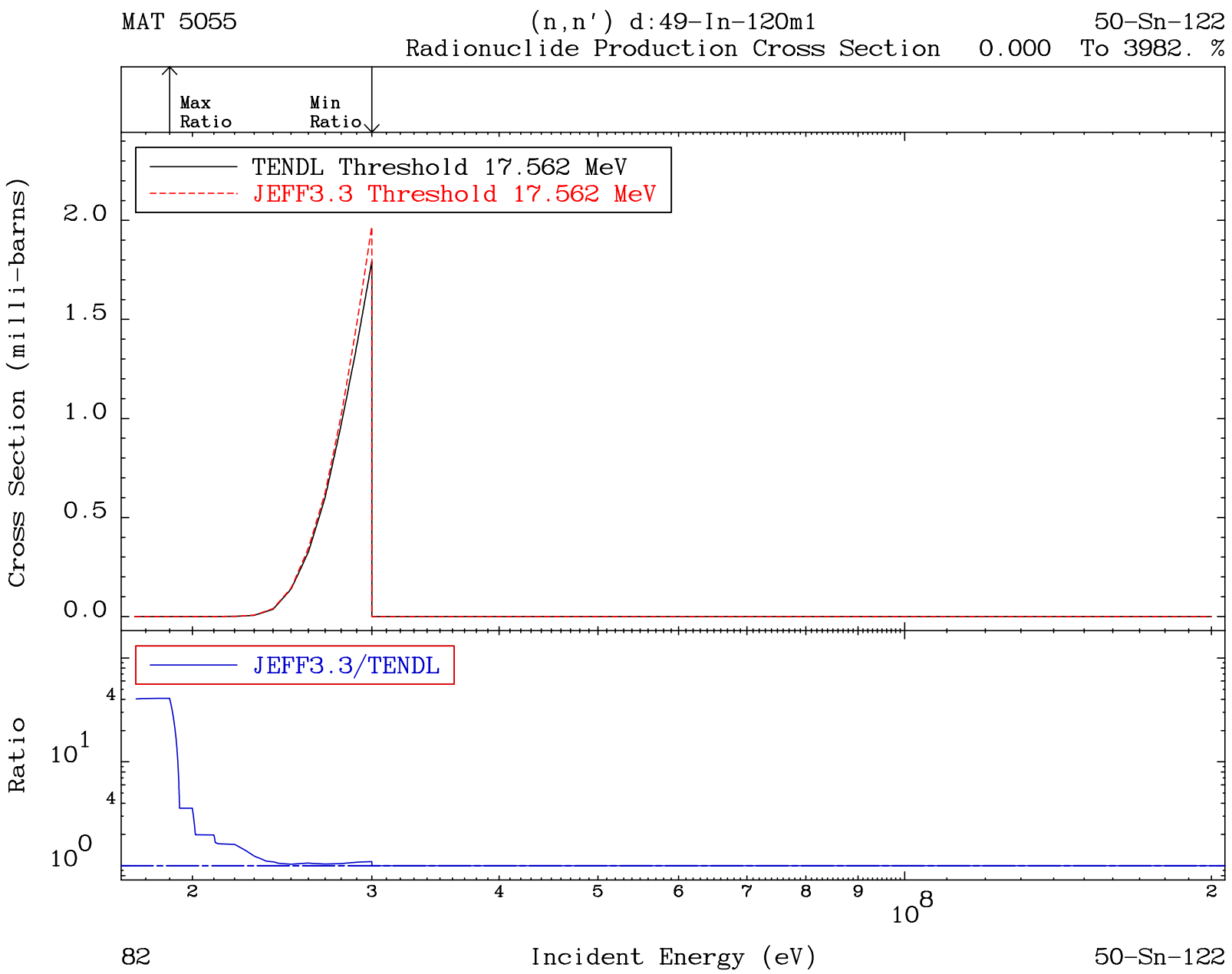

MAT 5055
(n,2n) α:48-Cd-117g
50-Sn-122
Radionuclide Production Cross Section -95.72 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 14.134 MeV
JEFF3.3 Threshold 14.135 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
50-Sn-122

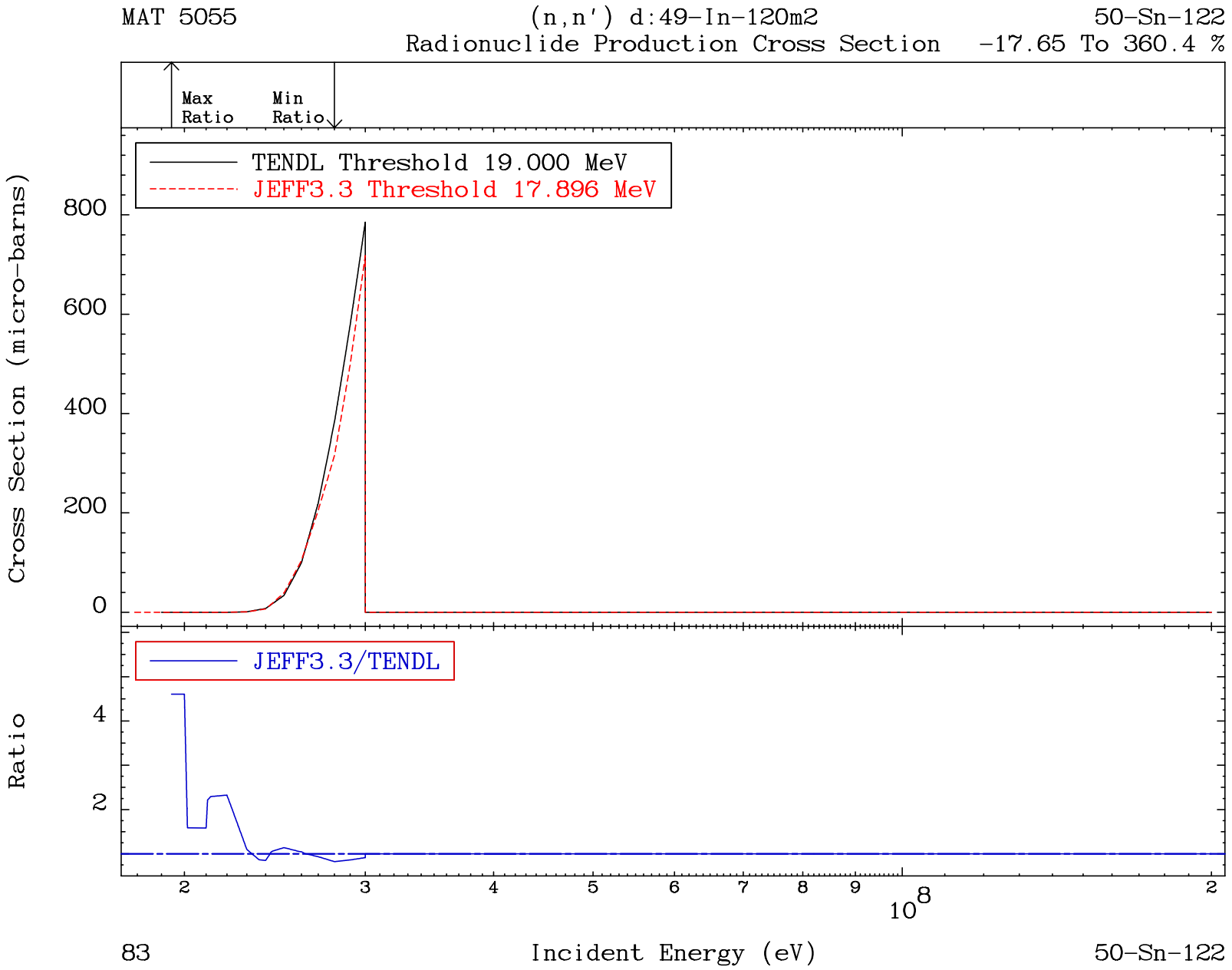

MAT 5055
(n,2n) α:48-Cd-117m2
50-Sn-122
Radionuclide Production Cross Section -95.65 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 14.271 MeV
JEFF3.3 Threshold 14.273 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
50-Sn-122

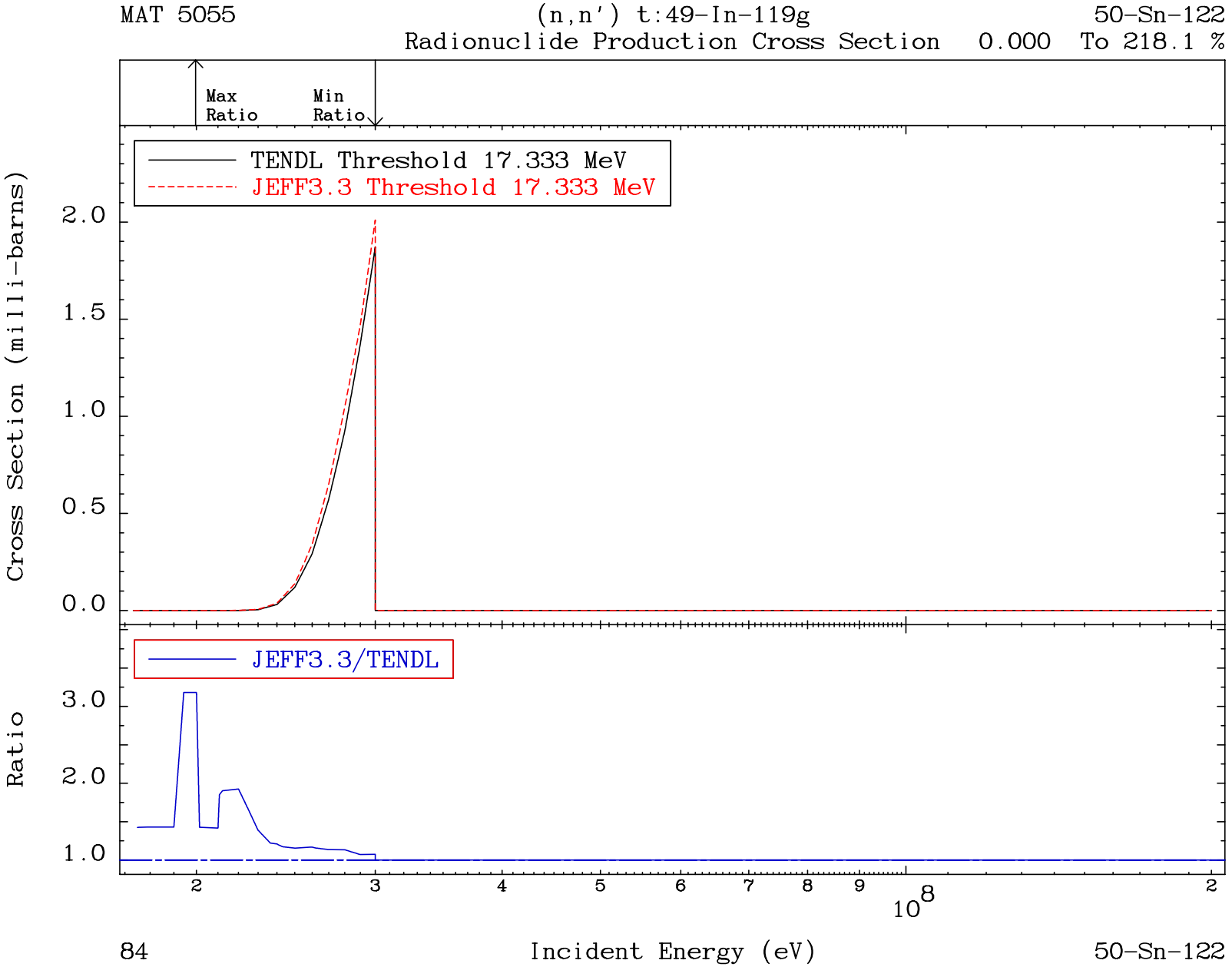

MAT 5055
(n,n') p:49-In-121g
50-Sn-122
Radionuclide Production Cross Section
-5.788 To 748.1 %
Max Ratio
Min Ratio
TENDL Threshold 11.489 MeV
JEFF3.3 Threshold 11.489 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
50-Sn-122

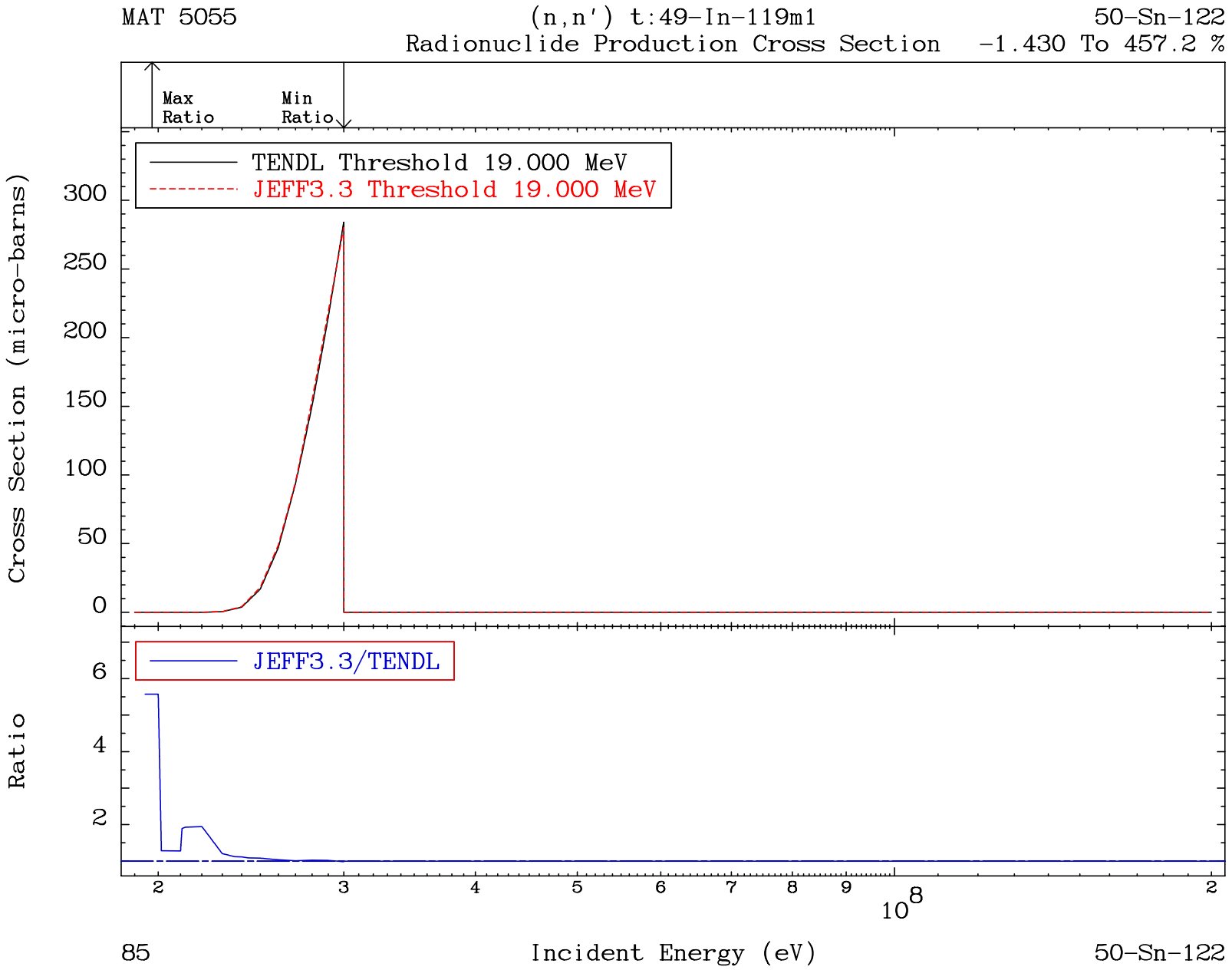

MAT 5055
(n,n') p:49-In-121m1
50-Sn-122
Radionuclide Production Cross Section -29.27 To 121.6 %
Max Ratio
Min Ratio
TENDL Threshold 12.500 MeV
JEFF3.3 Threshold 12.500 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
2.4
1.8
1.2
0.6
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
50-Sn-122

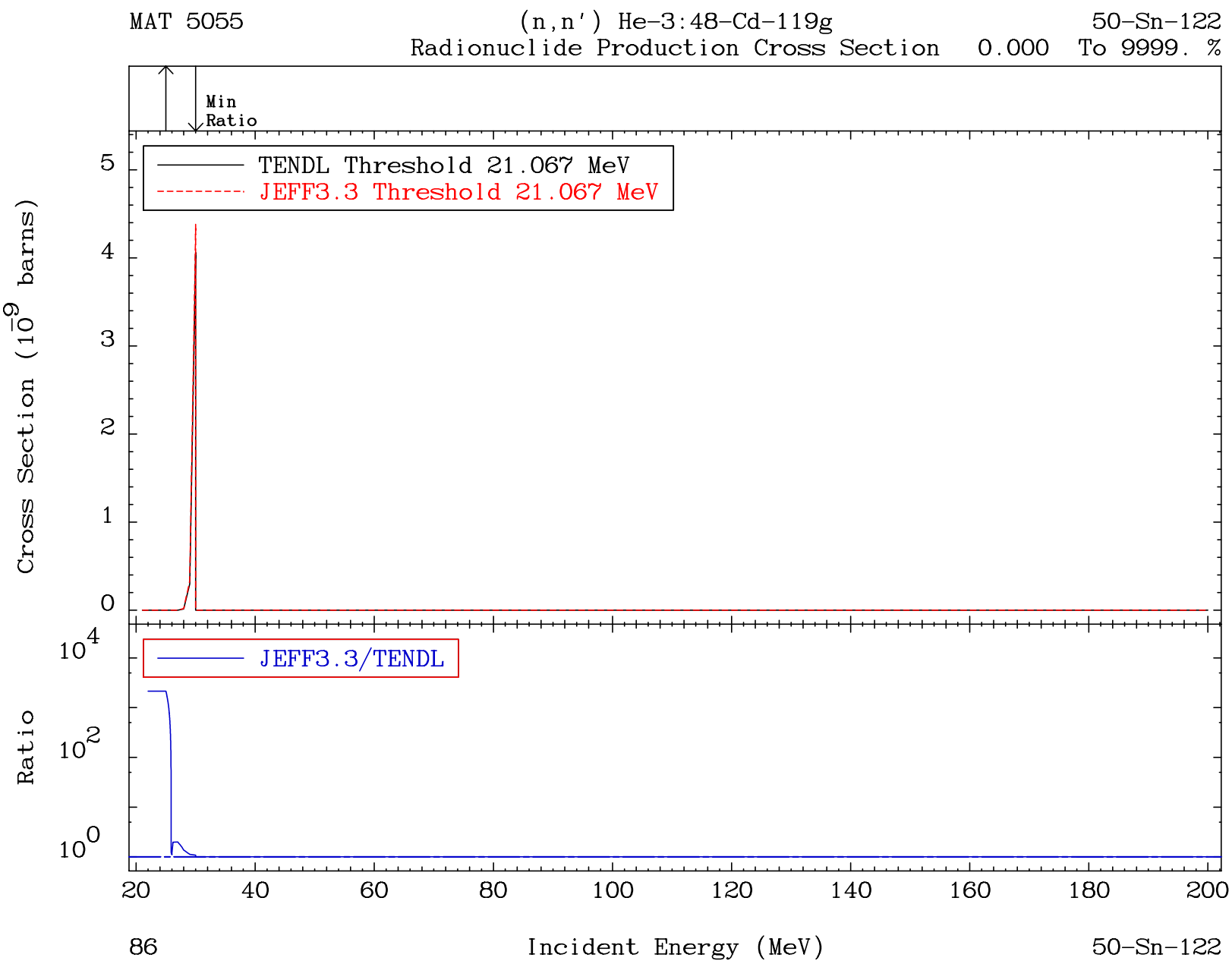

MAT 5055
(n,n') d:49-In-120g
50-Sn-122
Radionuclide Production Cross Section -11.86 To 684.0 %
Max Ratio
Min Ratio
TENDL Threshold 17.492 MeV
JEFF3.3 Threshold 17.492 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
50-Sn-122

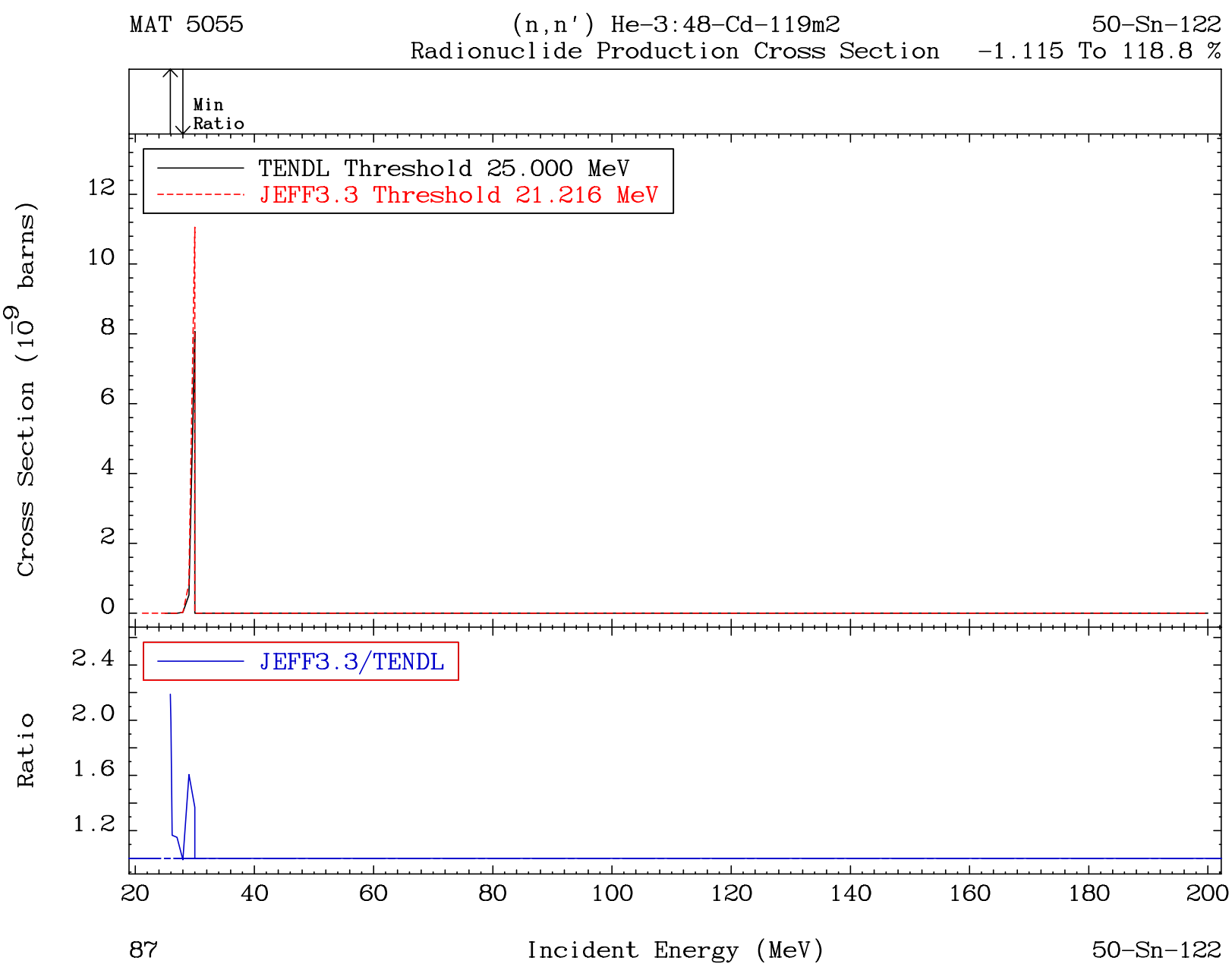

MAT 5055
(n,n') d:49-In-120m1
50-Sn-122
Radionuclide Production Cross Section 0.000 To 3982. %
Max Ratio
Min Ratio
TENDL Threshold 17.562 MeV
JEFF3.3 Threshold 17.562 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
50-Sn-122

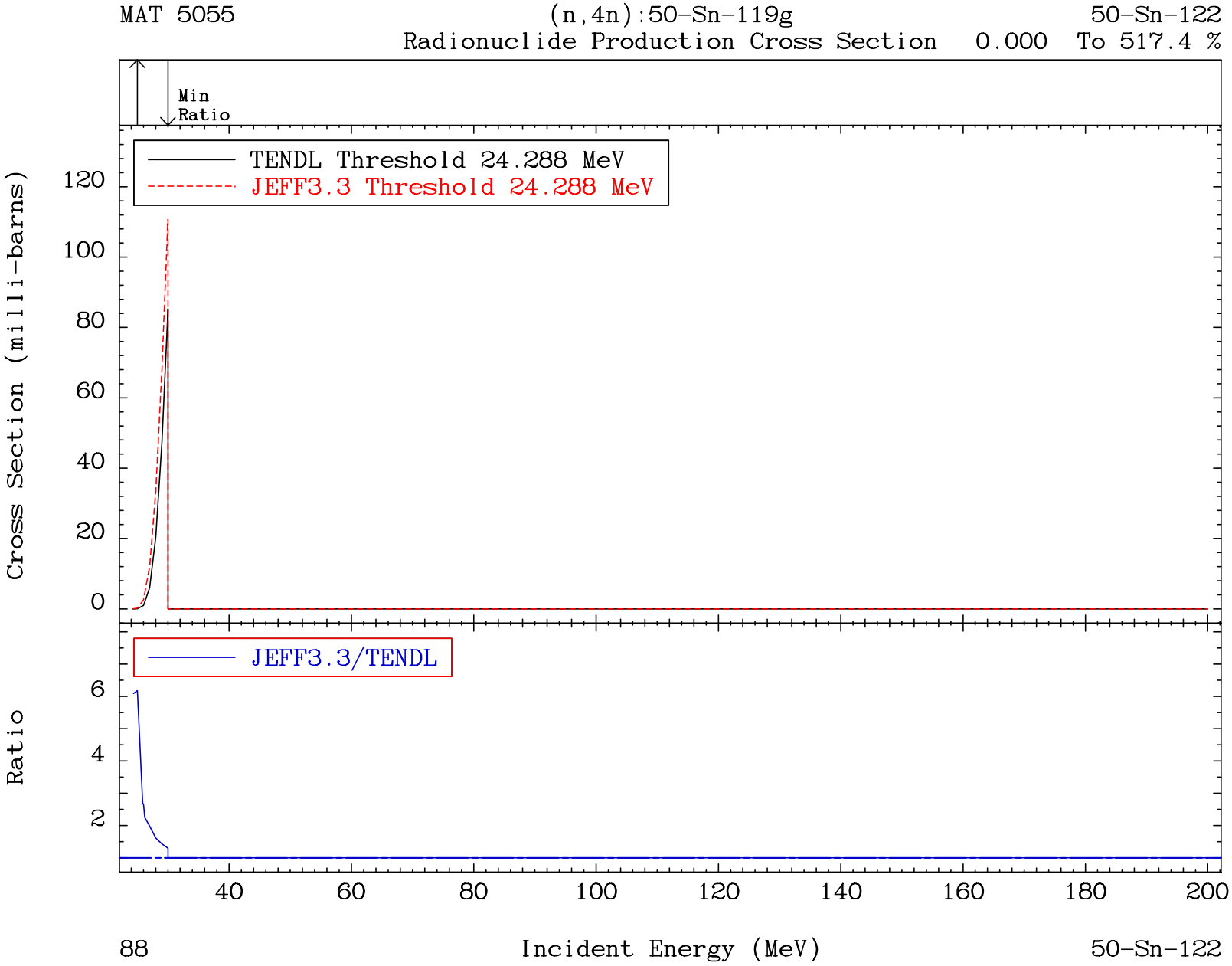

MAT 5055
(n,n') d:49-In-120m2
50-Sn-122
Radionuclide Production Cross Section -17.65 To 360.4 %
Max Ratio
Min Ratio
TENDL Threshold 19.000 MeV
JEFF3.3 Threshold 17.896 MeV
Cross Section (micro-barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
4
2
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
50-Sn-122

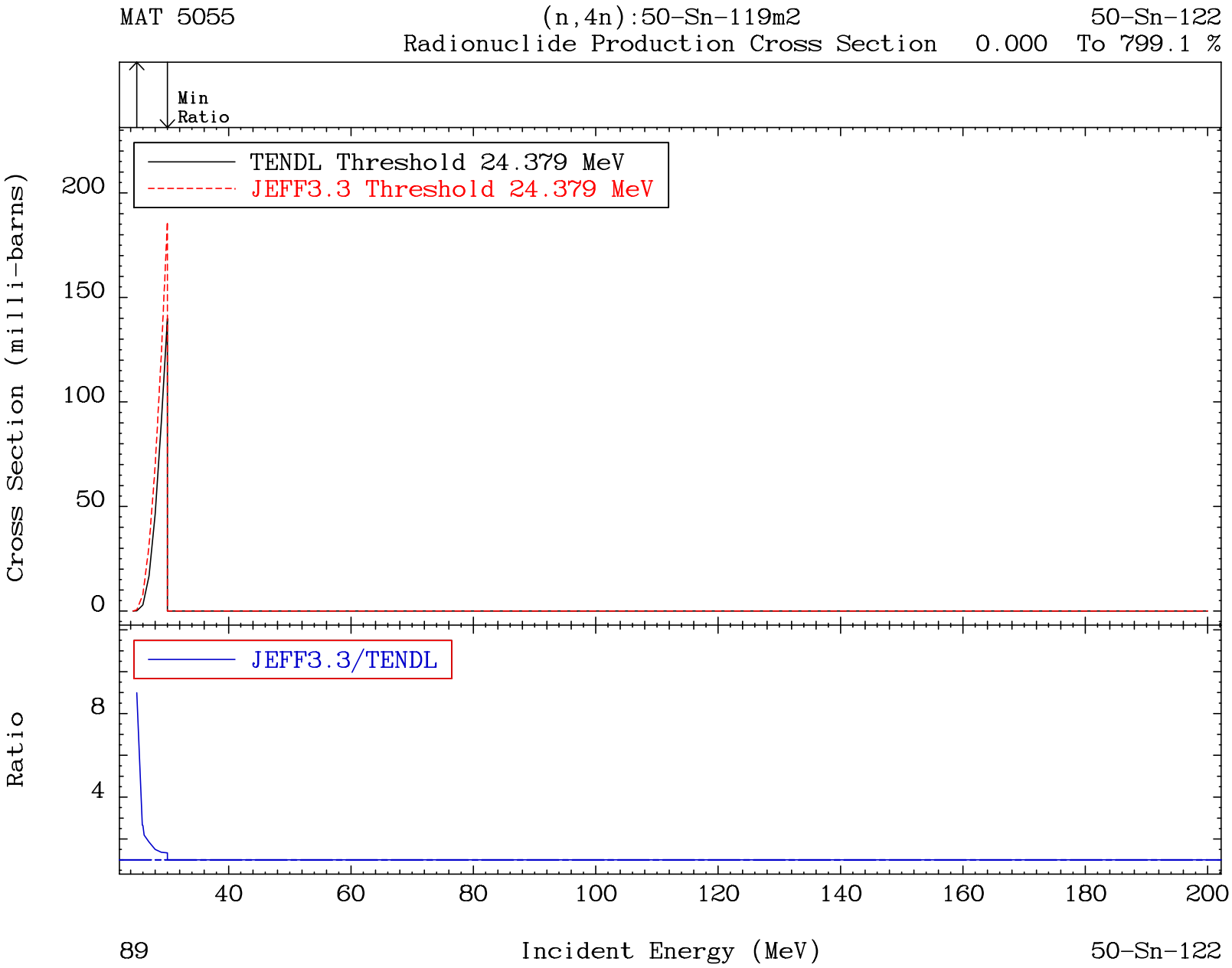

MAT 5055
(n,n') t:49-In-119g
50-Sn-122
Radionuclide Production Cross Section 0.000 To 218.1 %
Max Ratio
Min Ratio
TENDL Threshold 17.333 MeV
JEFF3.3 Threshold 17.333 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
50-Sn-122

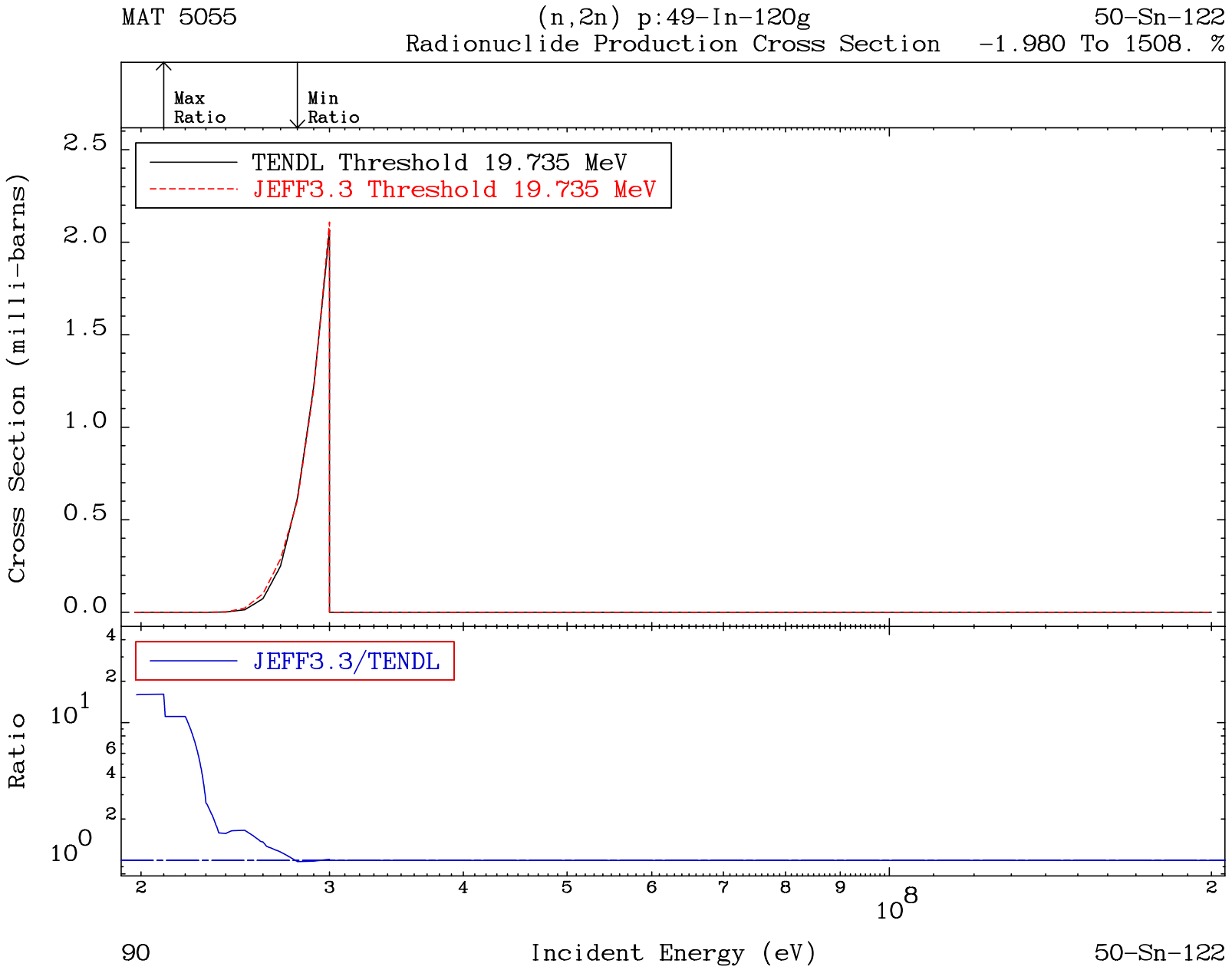

MAT 5055
(n,n') t:49-In-119m1
50-Sn-122
Radionuclide Production Cross Section -1.430 To 457.2 %
Max Ratio
Min Ratio
TENDL Threshold 19.000 MeV
JEFF3.3 Threshold 19.000 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
6
4
2
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
50-Sn-122

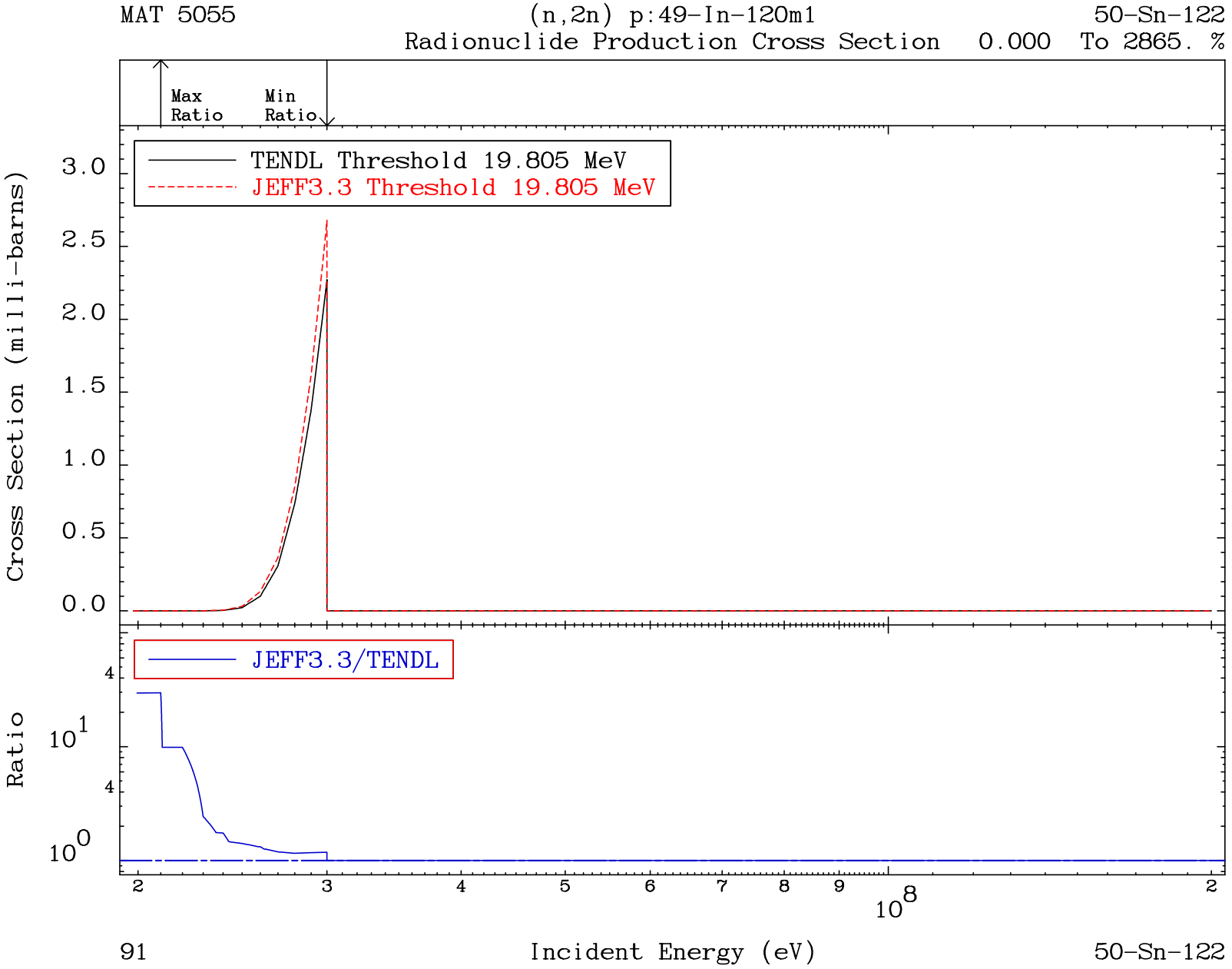

MAT 5055
(n,n') He-3:48-Cd-119g
50-Sn-122
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
TENDL Threshold 21.067 MeV
JEFF3.3 Threshold 21.067 MeV
Cross Section (10^{-9} barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
10^{0}
10^{2}
10^{4}
20
40
60
80
100
120
140
160
180
200
86
Incident Energy (MeV)
50-Sn-122

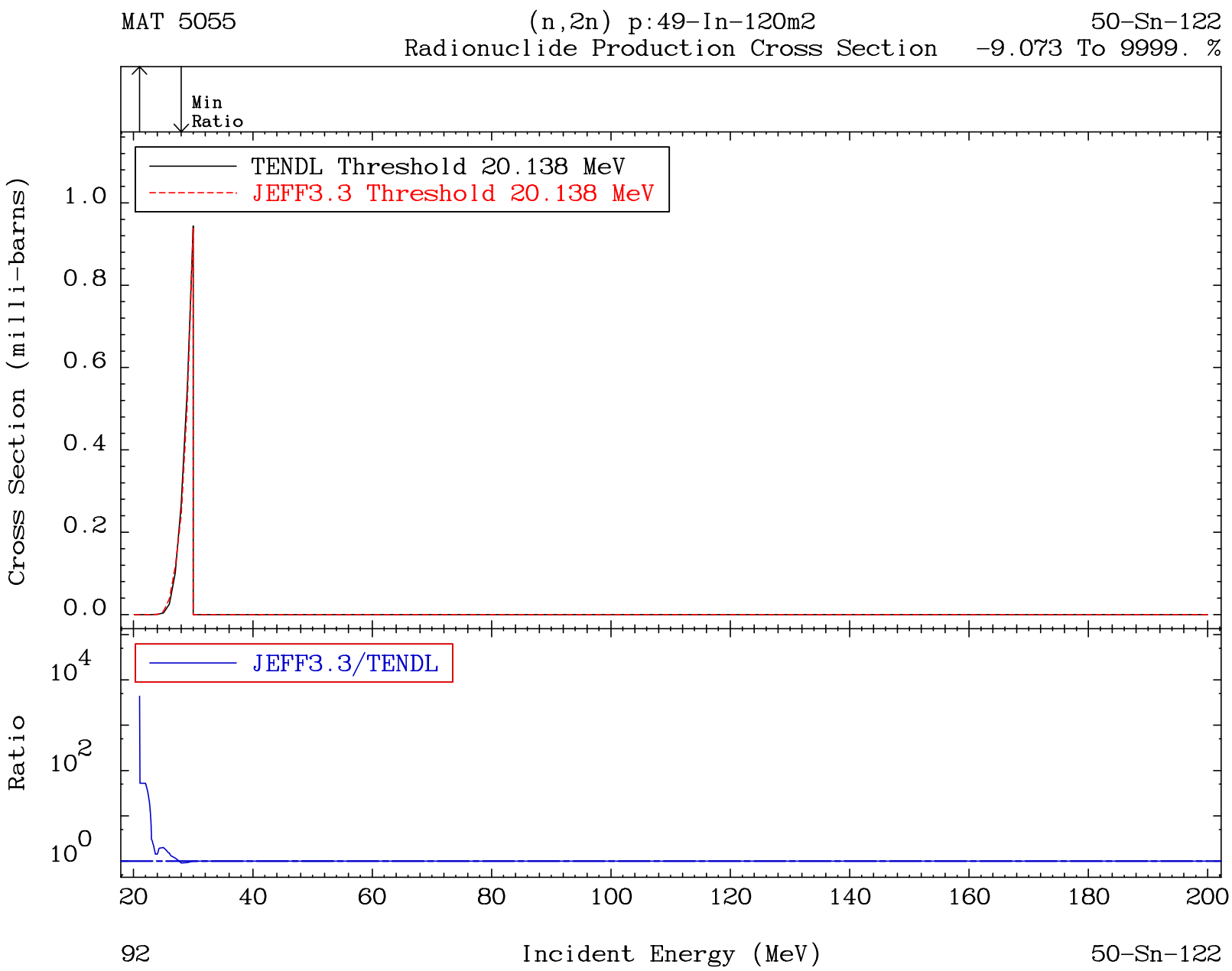

MAT 5055
(n,n') He-3:48-Cd-119m2
50-Sn-122
Radionuclide Production Cross Section -1.115 To 118.8 %
Min Ratio
TENDL Threshold 25.000 MeV
JEFF3.3 Threshold 21.216 MeV
Cross Section (10^{-9} barns)
0
2
4
6
8
10
12
JEFF3.3/TENDL
Ratio
1.2
1.6
2.0
2.4
20
40
60
80
100
120
140
160
180
200
87
Incident Energy (MeV)
50-Sn-122

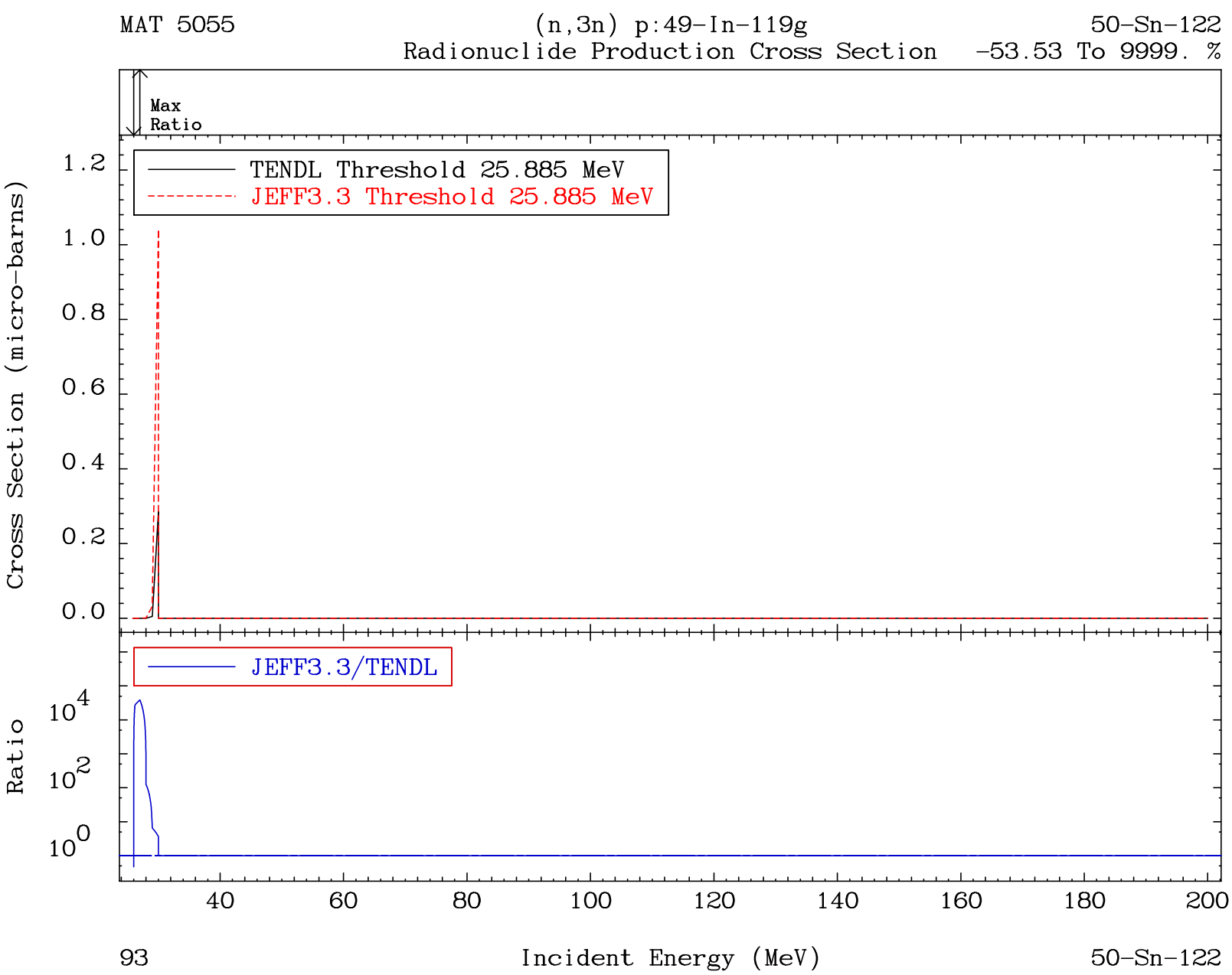

MAT 5055
(n,4n):50-Sn-119g
50-Sn-122
Radionuclide Production Cross Section 0.000 To 517.4 %
Min
Ratio
TENDL Threshold 24.288 MeV
JEFF3.3 Threshold 24.288 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
6
4
2
40
60
80
100
120
140
160
180
200
88
Incident Energy (MeV)
50-Sn-122

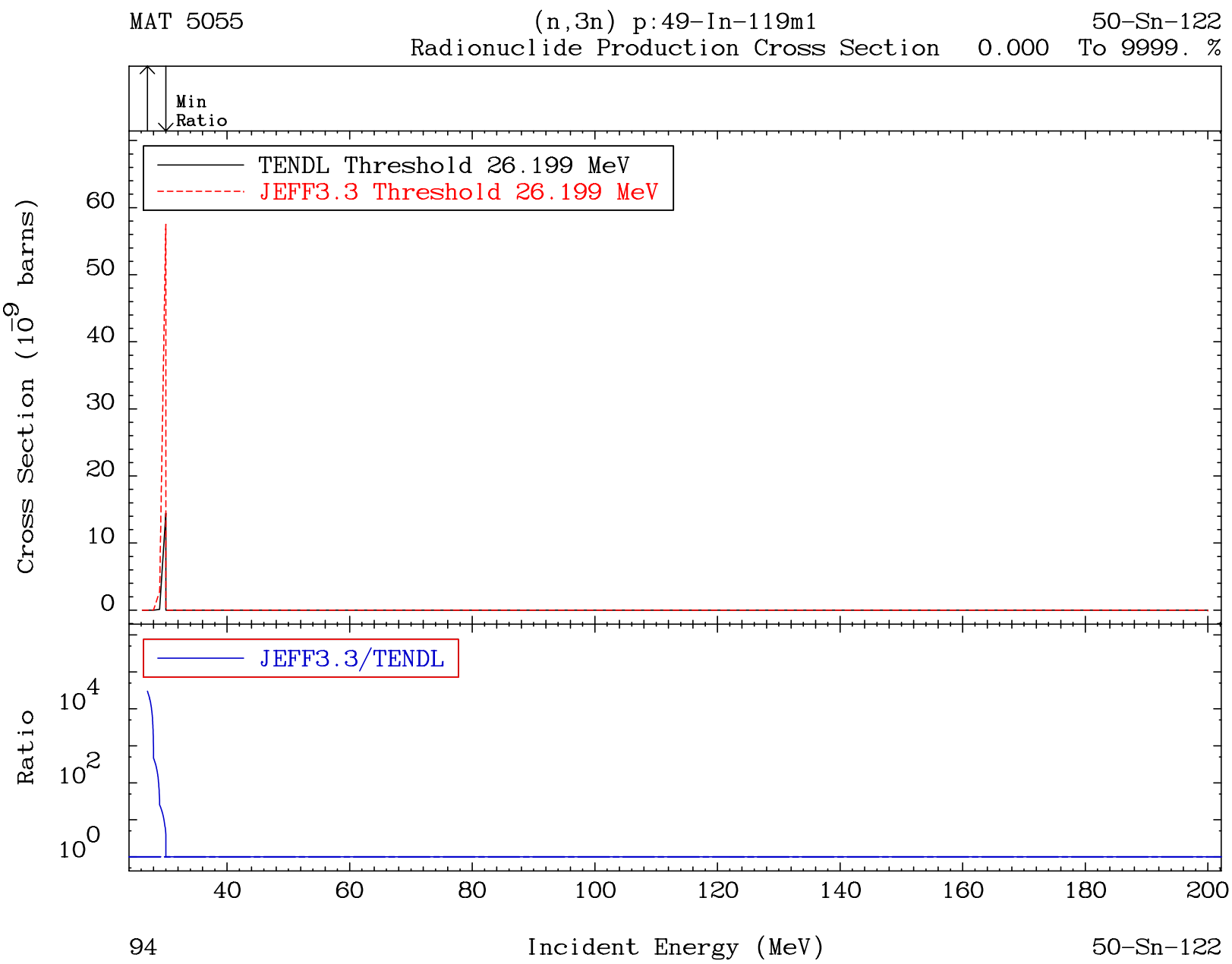

MAT 5055
(n,4n):50-Sn-119m2
50-Sn-122
Radionuclide Production Cross Section 0.000 To 799.1 %
Min
Ratio
TENDL Threshold 24.379 MeV
JEFF3.3 Threshold 24.379 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
8
4
40
60
80
100
120
140
160
180
200
89
Incident Energy (MeV)
50-Sn-122

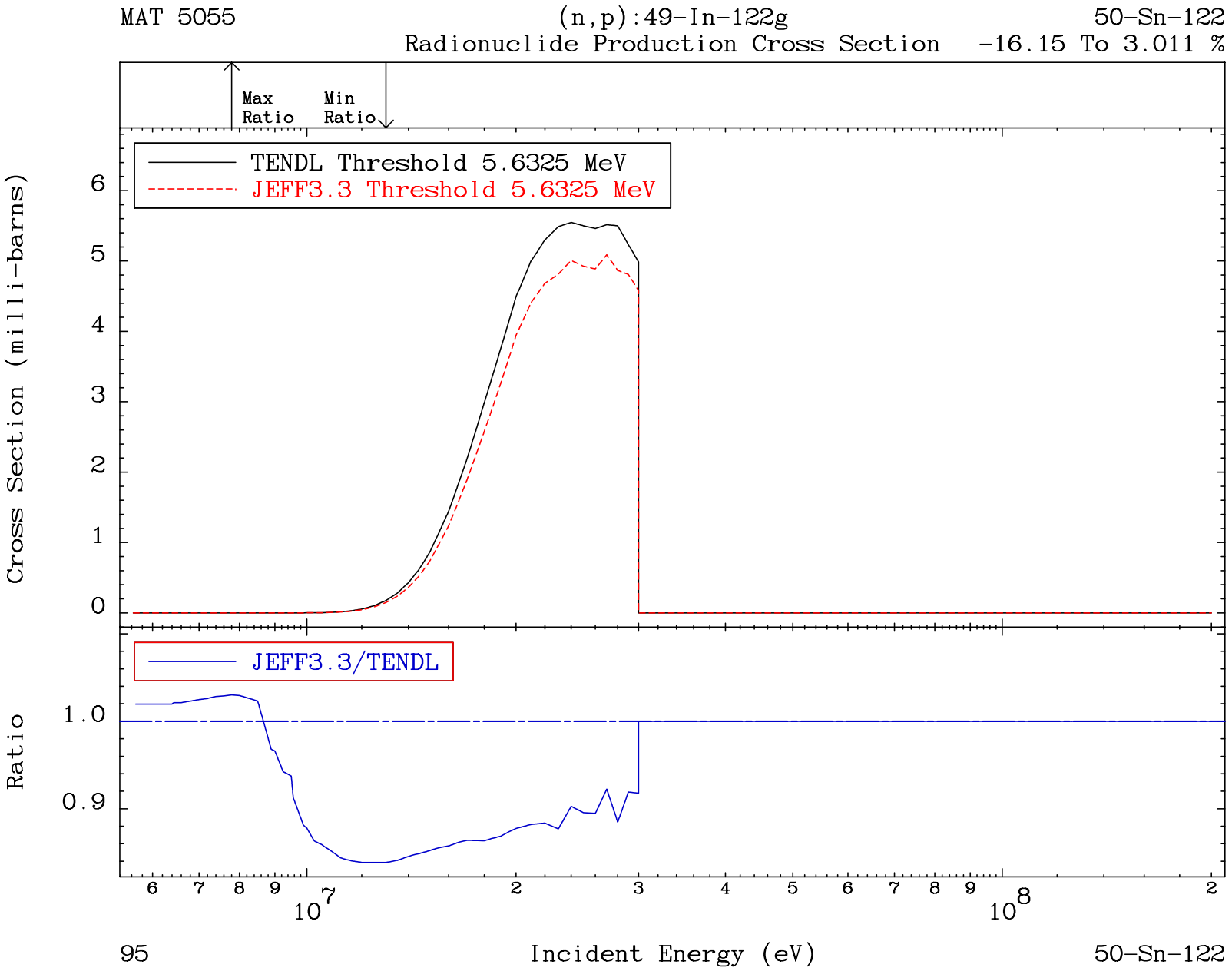

MAT 5055
(n,2n) p:49-In-120g
50-Sn-122
Radionuclide Production Cross Section -1.980 To 1508. %
Max Ratio
Min Ratio
TENDL Threshold 19.735 MeV
JEFF3.3 Threshold 19.735 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
50-Sn-122

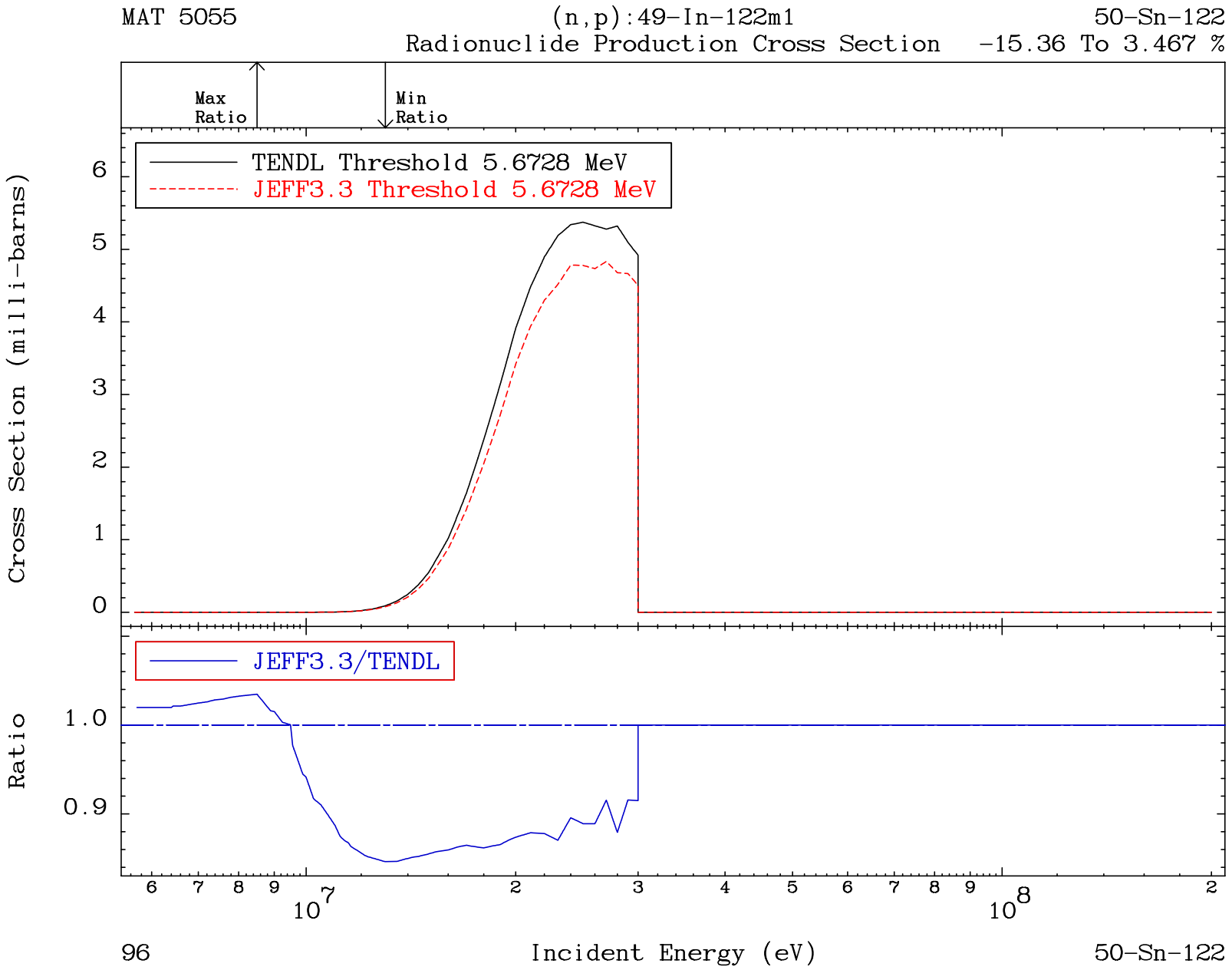

MAT 5055
(n,2n) p:49-In-120m1
50-Sn-122
Radionuclide Production Cross Section 0.000 To 2865. %
Max Ratio
Min Ratio
TENDL Threshold 19.805 MeV
JEFF3.3 Threshold 19.805 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
91
Incident Energy (eV)
50-Sn-122

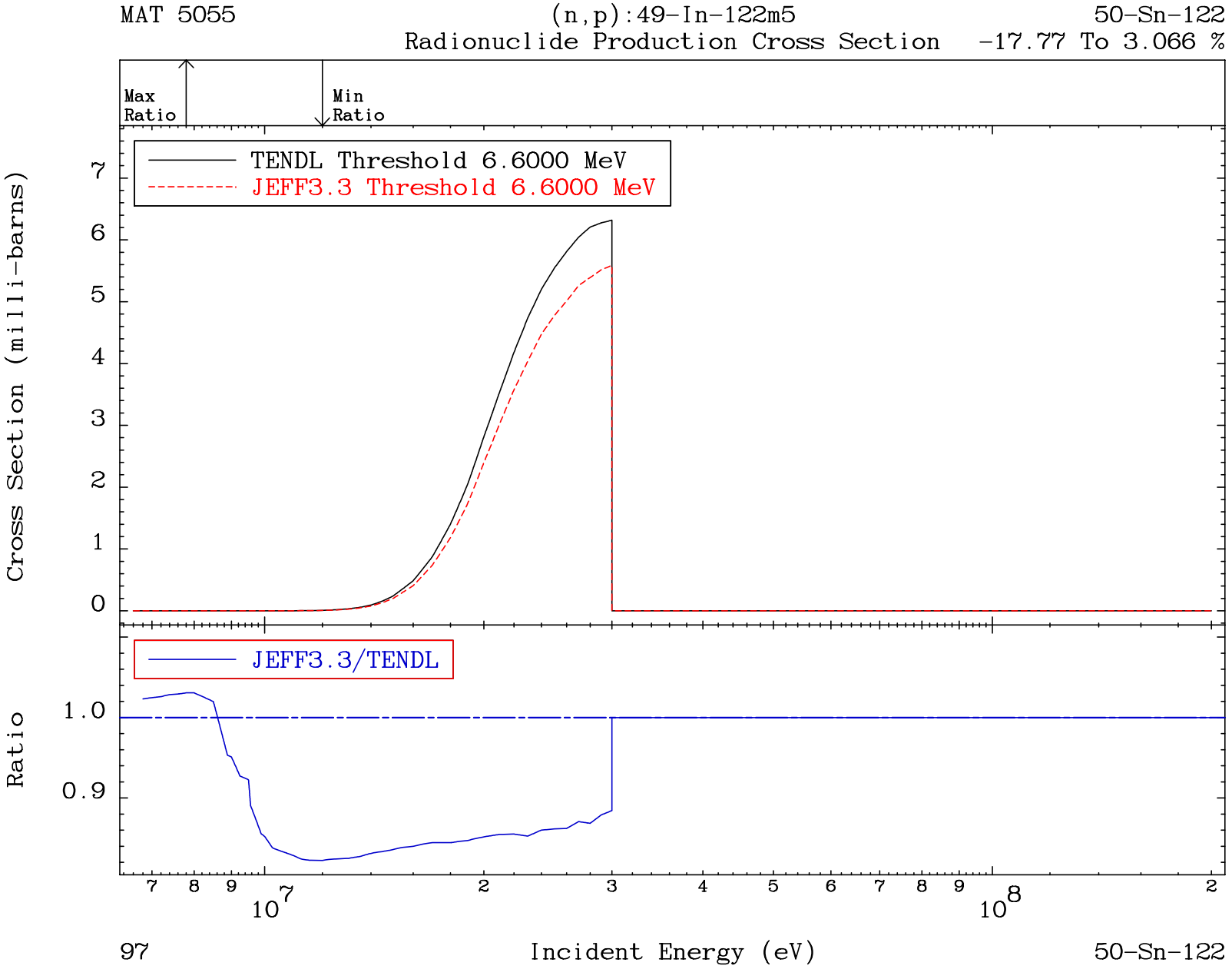

MAT 5055
(n,2n) p:49-In-120m2
50-Sn-122
Radionuclide Production Cross Section -9.073 To 9999. %
Min
Ratio
TENDL Threshold 20.138 MeV
JEFF3.3 Threshold 20.138 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
20
40
60
80
100
120
140
160
180
200
92
Incident Energy (MeV)
50-Sn-122

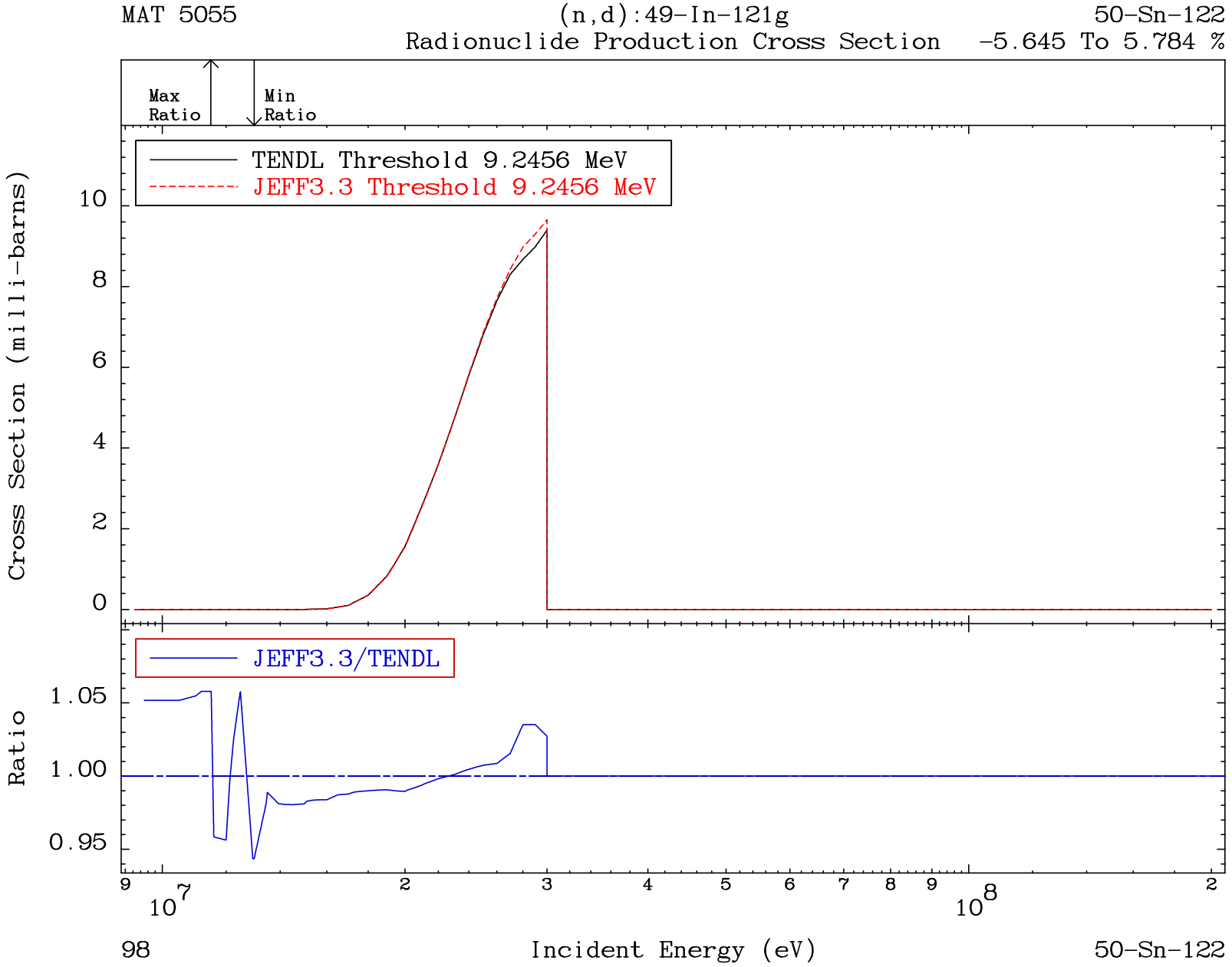

MAT 5055
(n,3n) p:49-In-119g
50-Sn-122
Radionuclide Production Cross Section -53.53 To 9999. %
Max Ratio
TENDL Threshold 25.885 MeV
JEFF3.3 Threshold 25.885 MeV
Cross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
40
60
80
100
120
140
160
180
200
93
Incident Energy (MeV)
50-Sn-122

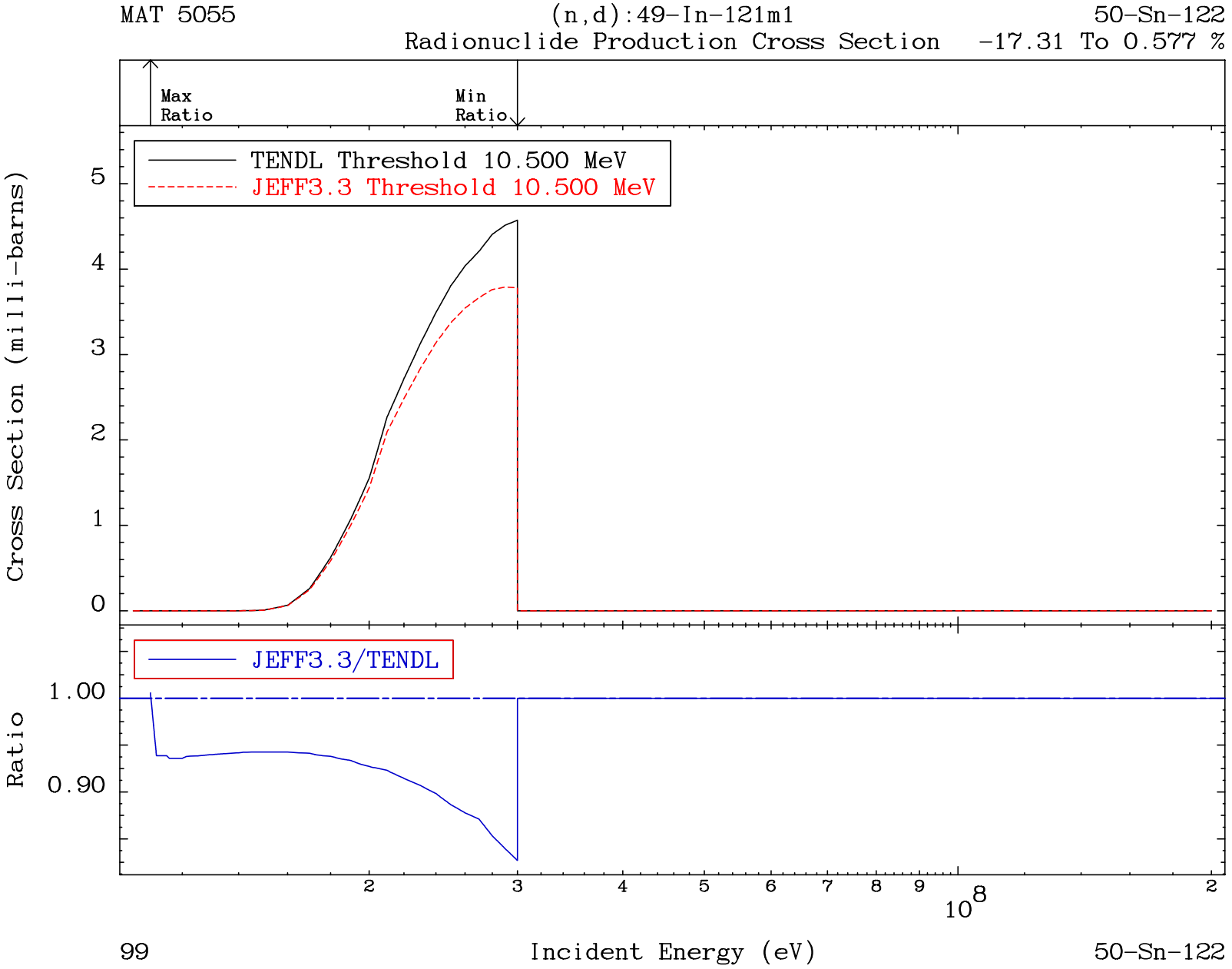

MAT 5055
(n,3n) p:49-In-119m1
50-Sn-122
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
TENDL Threshold 26.199 MeV
JEFF3.3 Threshold 26.199 MeV
Cross Section (10^{-9} barns)
0
10
20
30
40
50
60
JEFF3.3/TENDL
Ratio
10^0
10^2
10^4
40
60
80
100
120
140
160
180
200
94
Incident Energy (MeV)
50-Sn-122

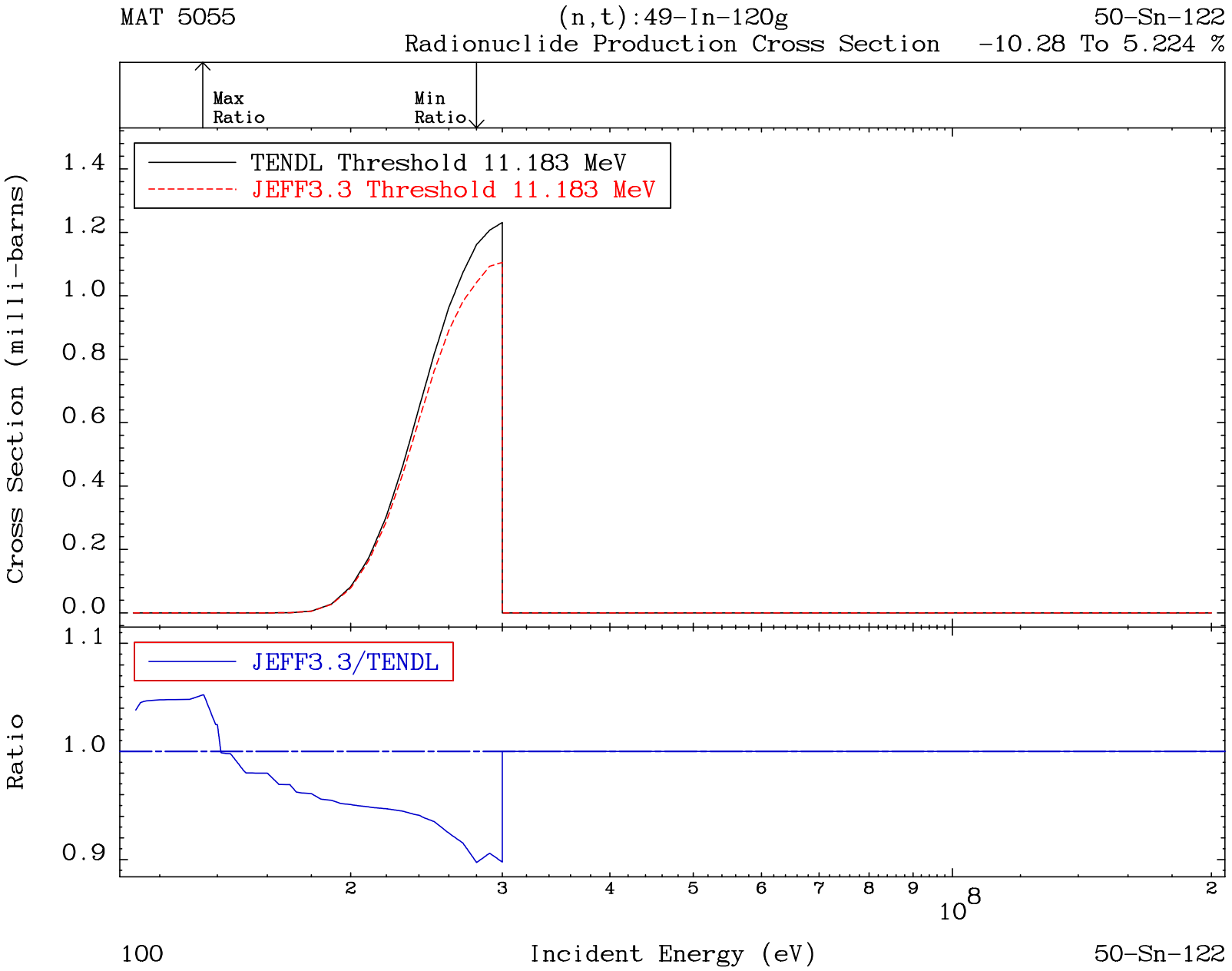

MAT 5055
(n,p):49-In-122g
50-Sn-122
Radionuclide Production Cross Section
-16.15 To 3.011 %
Max Ratio
Min Ratio
TENDL Threshold 5.6325 MeV
JEFF3.3 Threshold 5.6325 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
0.9
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
95
Incident Energy (eV)
50-Sn-122

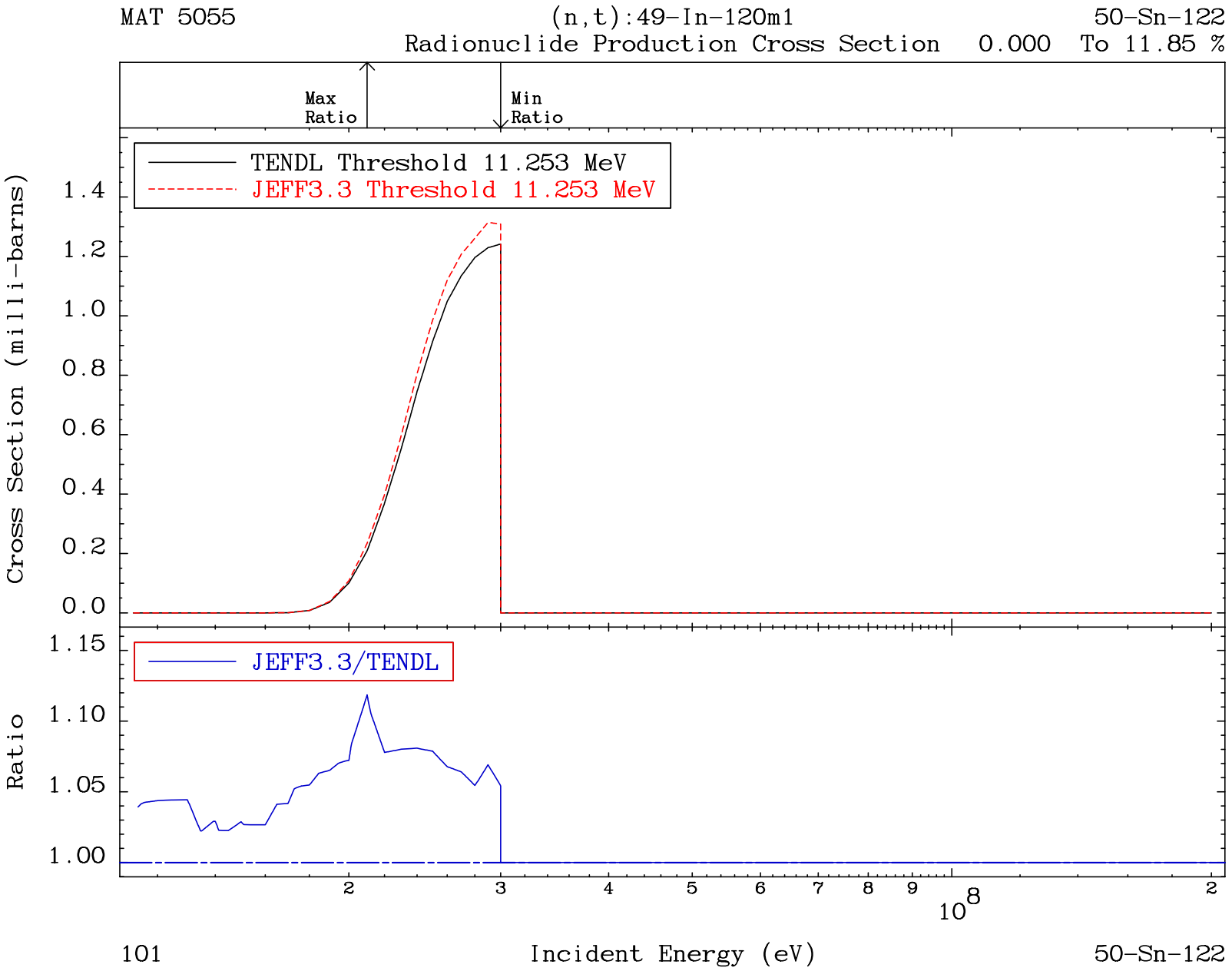

MAT 5055
(n,p):49-In-122m1
50-Sn-122
Radionuclide Production Cross Section -15.36 To 3.467 %
Max Ratio
Min Ratio
TENDL Threshold 5.6728 MeV
JEFF3.3 Threshold 5.6728 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
1.0
0.9
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
96
Incident Energy (eV)
50-Sn-122

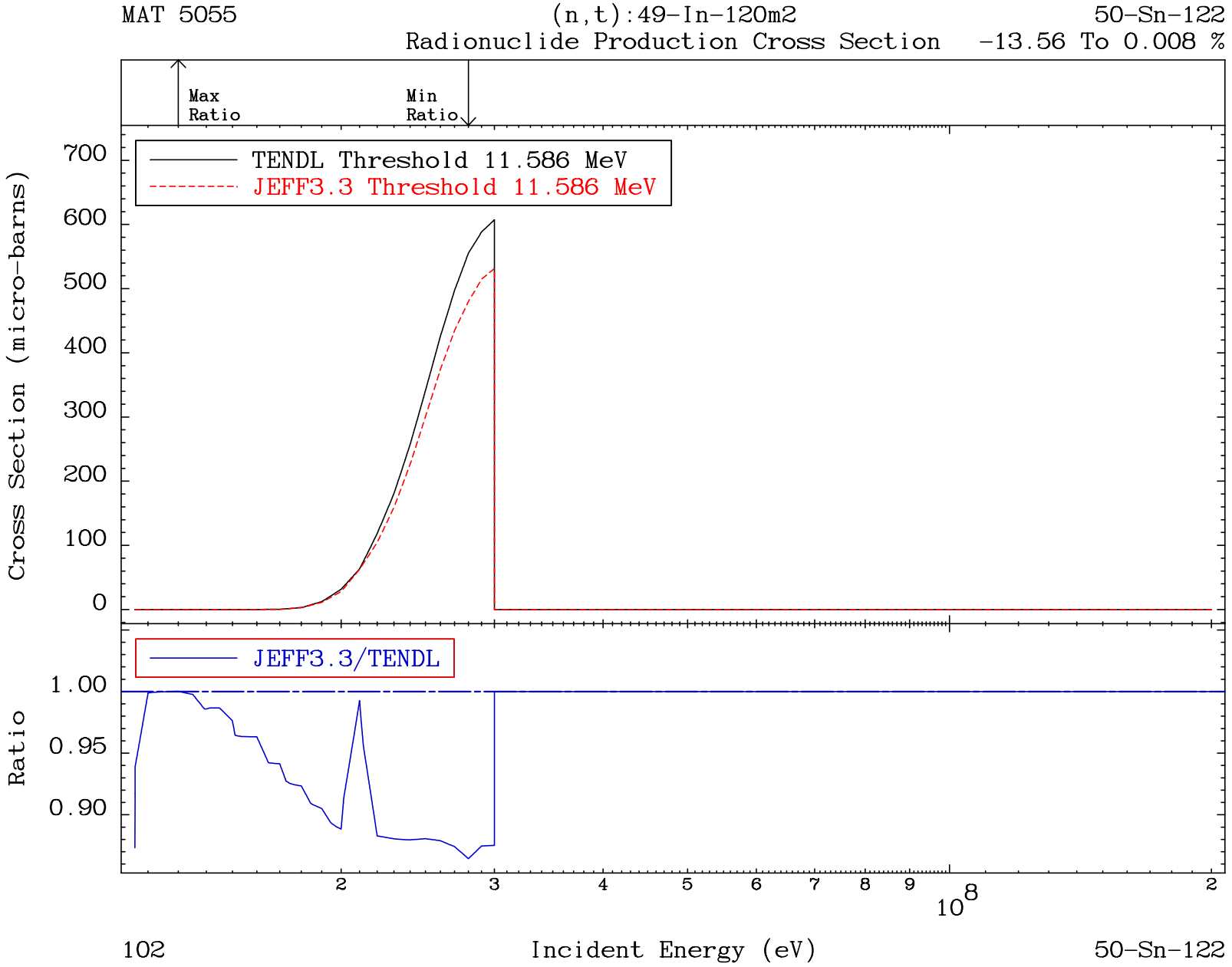

MAT 5055
(n,p):49-In-122m5
50-Sn-122
Radionuclide Production Cross Section -17.77 To 3.066 %
Max Ratio
Min Ratio
TENDL Threshold 6.6000 MeV
JEFF3.3 Threshold 6.6000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
JEFF3.3/TENDL
Ratio
1.0
0.9
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
97
Incident Energy (eV)
50-Sn-122

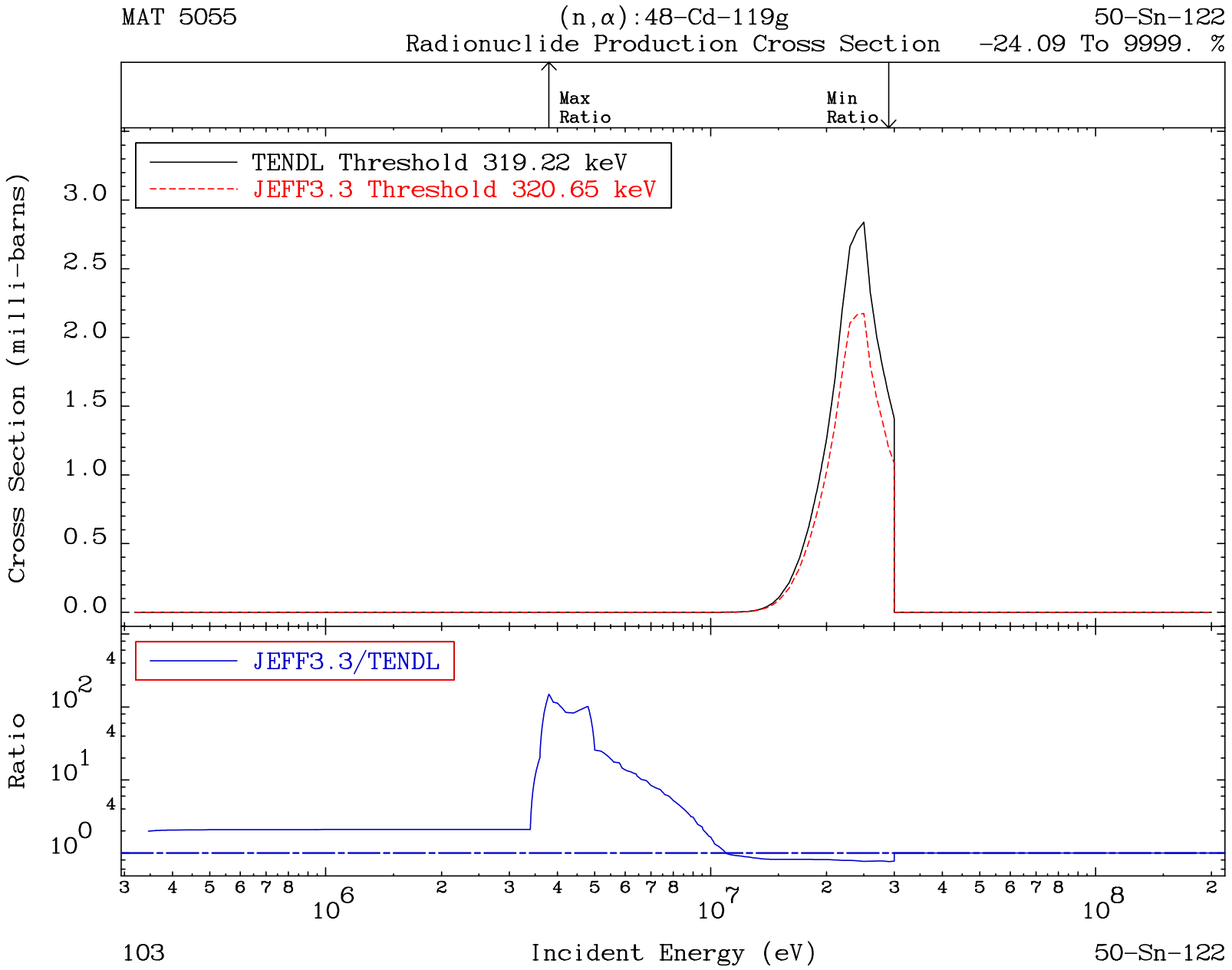

MAT 5055
(n,d):49-In-121g
50-Sn-122
Radionuclide Production Cross Section
-5.645 To 5.784 %
Max Ratio
Min Ratio
TENDL Threshold 9.2456 MeV
JEFF3.3 Threshold 9.2456 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
JEFF3.3/TENDL
Ratio
0.95
1.00
1.05
9
10^7
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
50-Sn-122

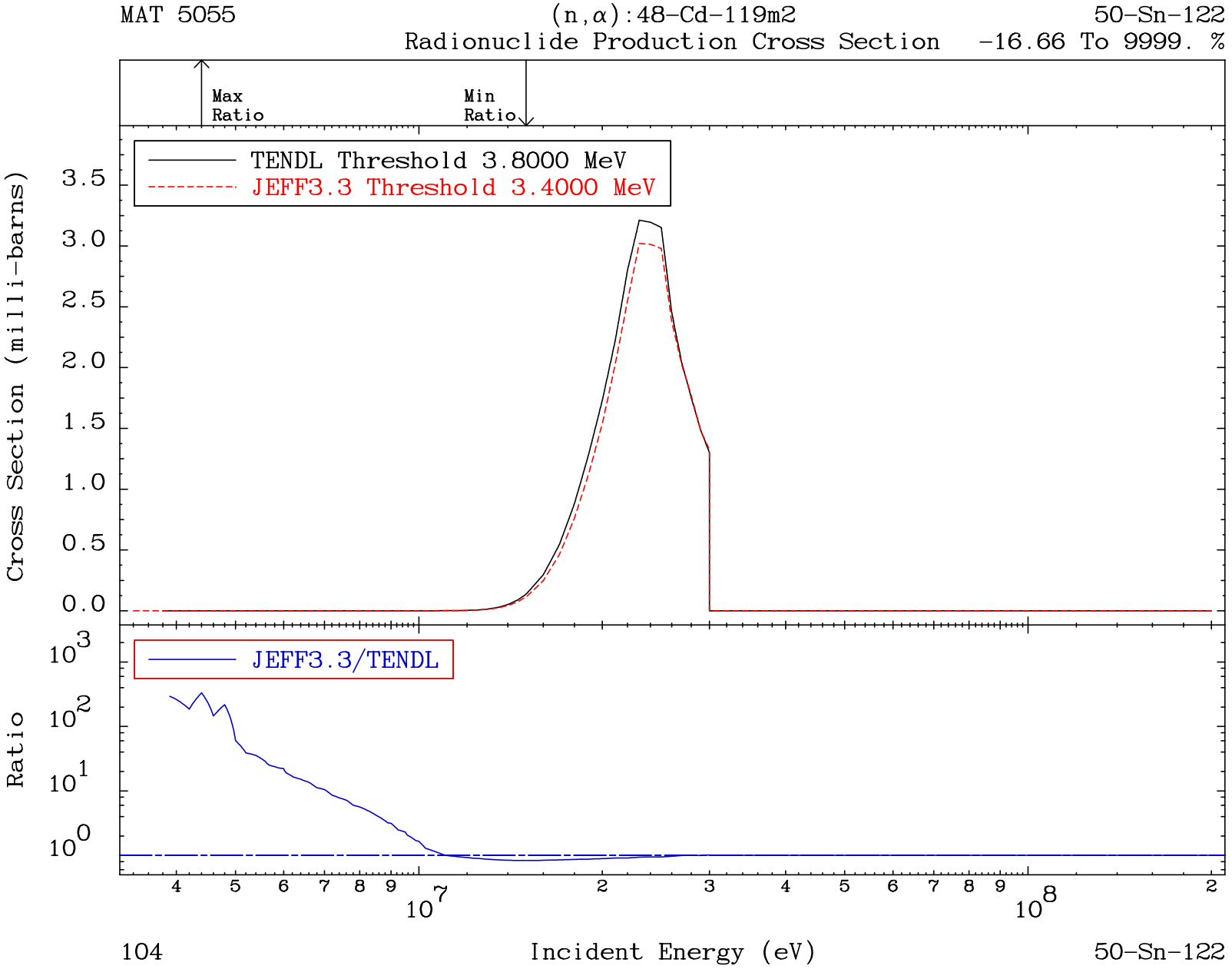

MAT 5055
(n,d):49-In-121m1
50-Sn-122
Radionuclide Production Cross Section -17.31 To 0.577 %
Max Ratio
Min Ratio
TENDL Threshold 10.500 MeV
JEFF3.3 Threshold 10.500 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
1.00
0.90
2
3
4
5
6
7
8
9
10^8
2
99
Incident Energy (eV)
50-Sn-122

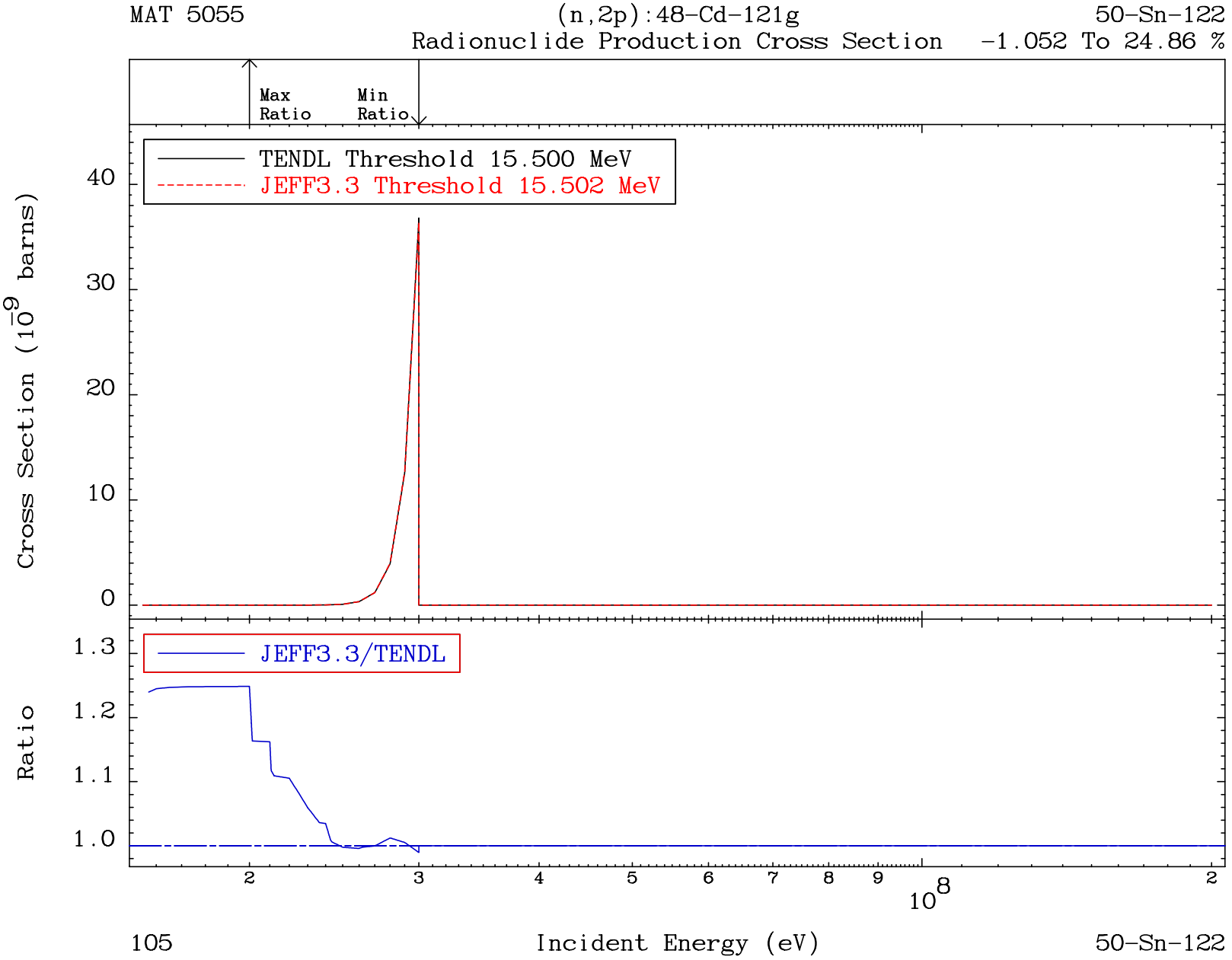

MAT 5055
(n,t):49-In-120g
50-Sn-122
Radionuclide Production Cross Section
-10.28 To 5.224 %
Max Ratio
Min Ratio
TENDL Threshold 11.183 MeV
JEFF3.3 Threshold 11.183 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
2
3
4
5
6
7
8
9
10^8
2
100
Incident Energy (eV)
50-Sn-122

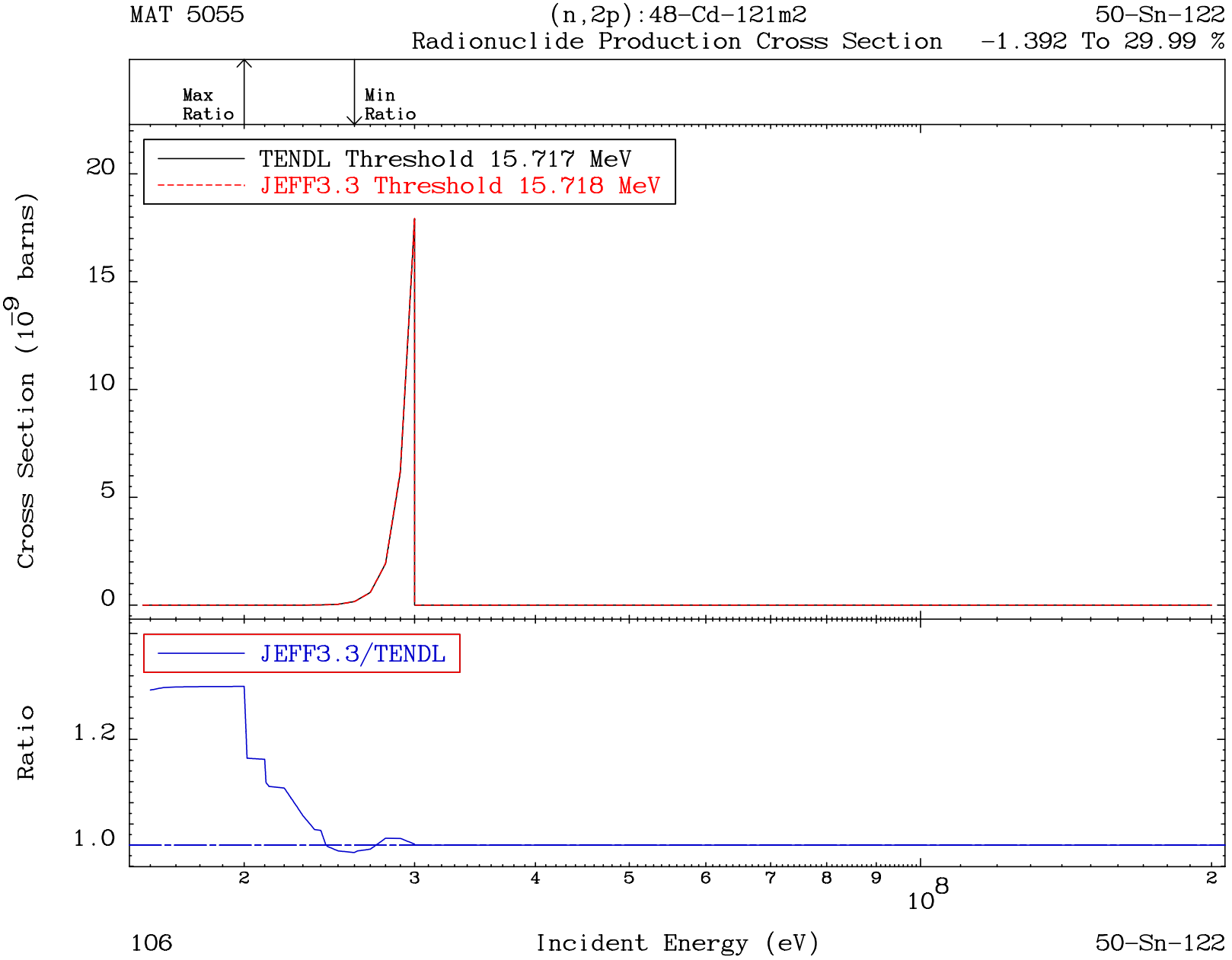

MAT 5055
(n,t):49-In-120m1
50-Sn-122
Radionuclide Production Cross Section 0.000 To 11.85 %
Max Ratio
Min Ratio
TENDL Threshold 11.253 MeV
JEFF3.3 Threshold 11.253 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.15
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
101
Incident Energy (eV)
50-Sn-122

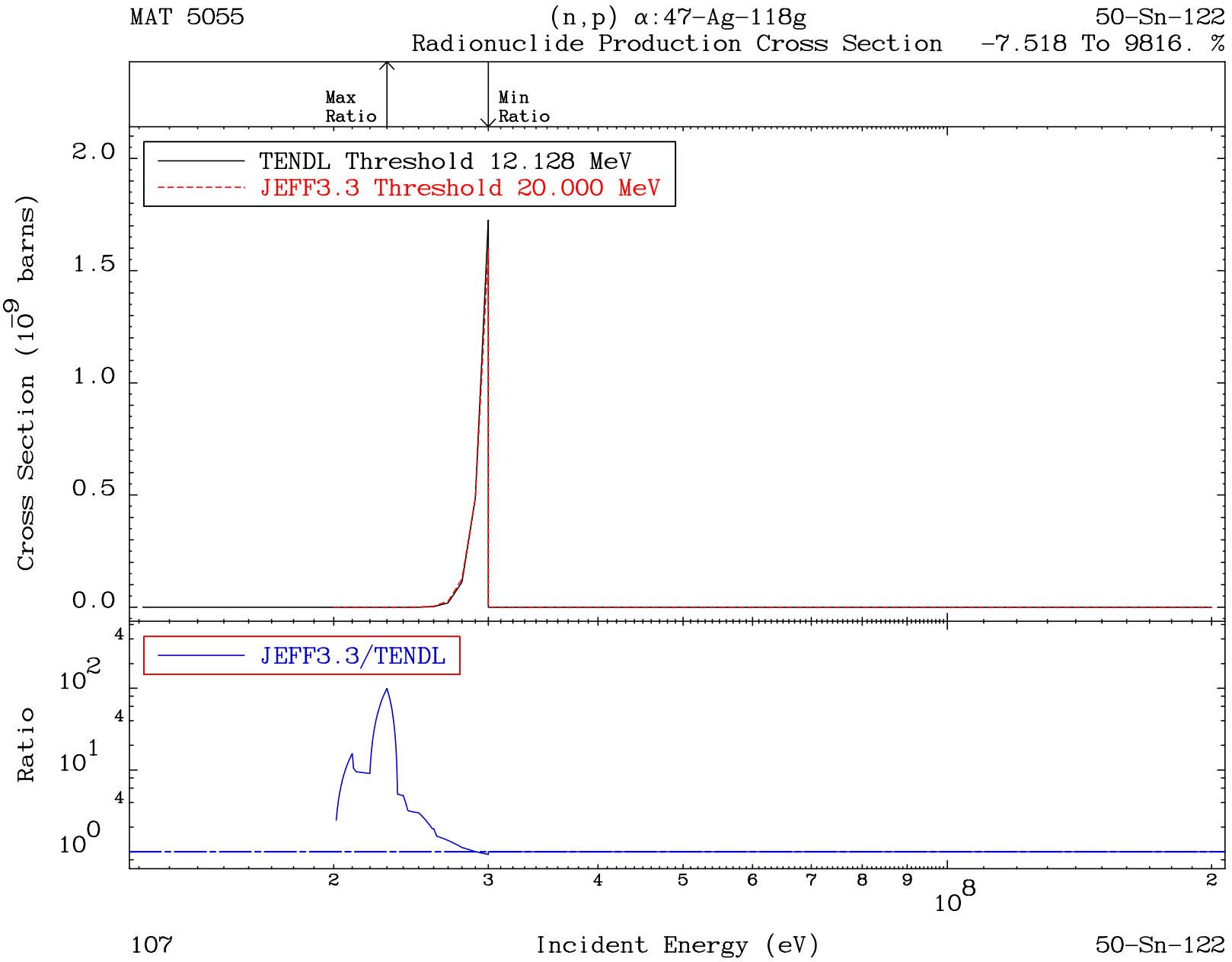

MAT 5055
(n,t):49-In-120m2
50-Sn-122
Radionuclide Production Cross Section
-13.56 To 0.008 %
Max Ratio
Min Ratio
TENDL Threshold 11.586 MeV
JEFF3.3 Threshold 11.586 MeV
Cross Section (micro-barns)
700
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
9
10^8
2
102
Incident Energy (eV)
50-Sn-122

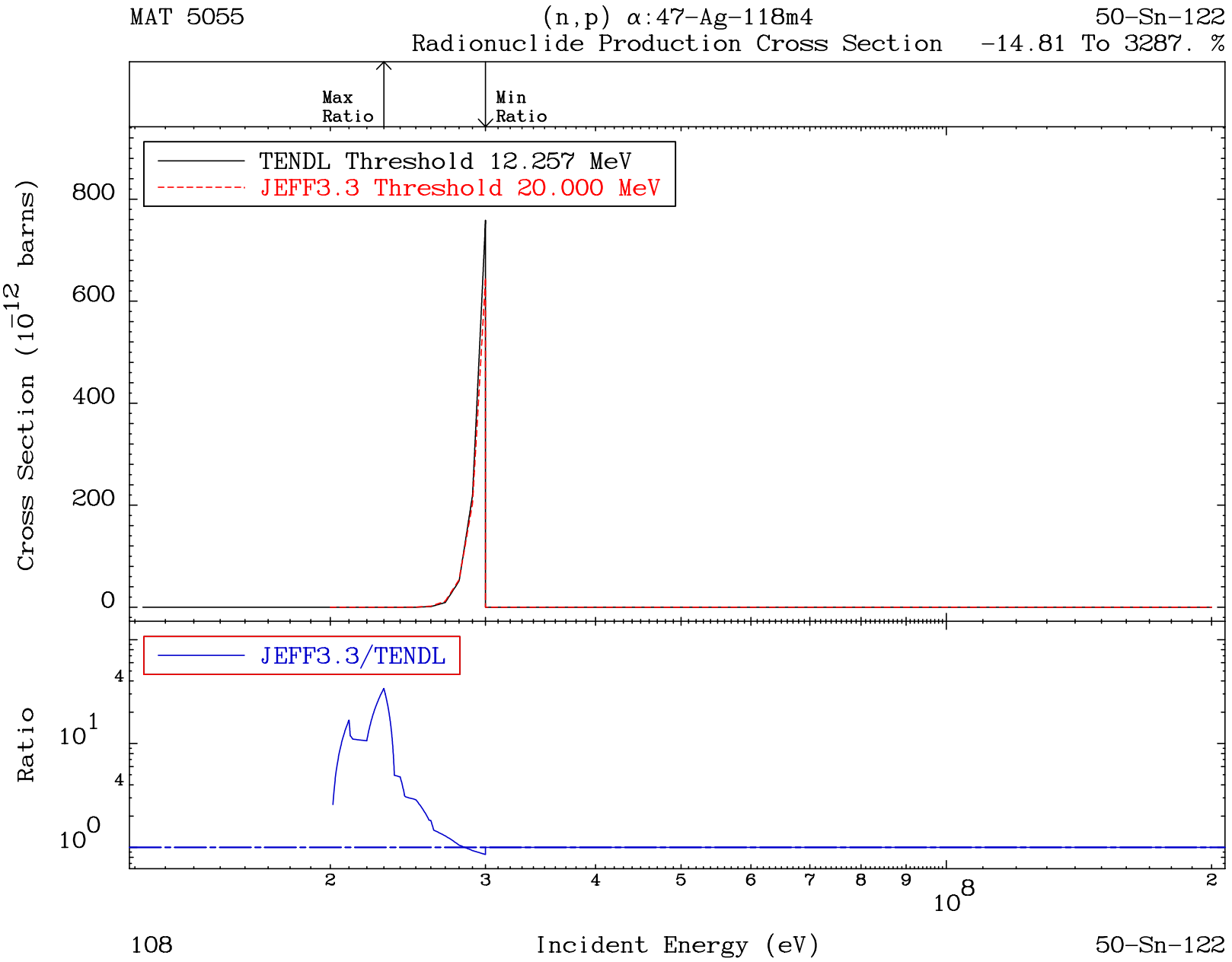

MAT 5055
(n,α):48-Cd-119g
50-Sn-122
Radionuclide Production Cross Section
-24.09 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 319.22 keV
JEFF3.3 Threshold 320.65 keV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 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 -16.66 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.8000 MeV
JEFF3.3 Threshold 3.4000 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
104
Incident Energy (eV)
50-Sn-122


MAT 5055
(n,2p):48-Cd-121g
50-Sn-122
Radionuclide Production Cross Section -1.052 To 24.86 %
Max Ratio
Min Ratio
TENDL Threshold 15.500 MeV
JEFF3.3 Threshold 15.502 MeV
Cross Section (10^{-9} barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.3
1.2
1.1
1.0
2
3
4
5
6
7
8
9
2
10^8
105
Incident Energy (eV)
50-Sn-122


MAT 5055
(n,2p):48-Cd-121m2
50-Sn-122
Radionuclide Production Cross Section -1.392 To 29.99 %
Max Ratio
Min Ratio
TENDL Threshold 15.717 MeV
JEFF3.3 Threshold 15.718 MeV
Cross Section (10^{-9} barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.2
1.0
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 -7.518 To 9816. %
Max Ratio
Min Ratio
TENDL Threshold 12.128 MeV
JEFF3.3 Threshold 20.000 MeV
Cross Section (10^{-9} barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^{2}
10^{1}
10^{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 -14.81 To 3287. %
Max Ratio
Min Ratio
TENDL Threshold 12.257 MeV
JEFF3.3 Threshold 20.000 MeV
Cross Section (10^{-12} barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
10^{1}
4
10^{0}
4
2
3
4
5
6
7
8
9
10^{8}
2
108
Incident Energy (eV)
50-Sn-122