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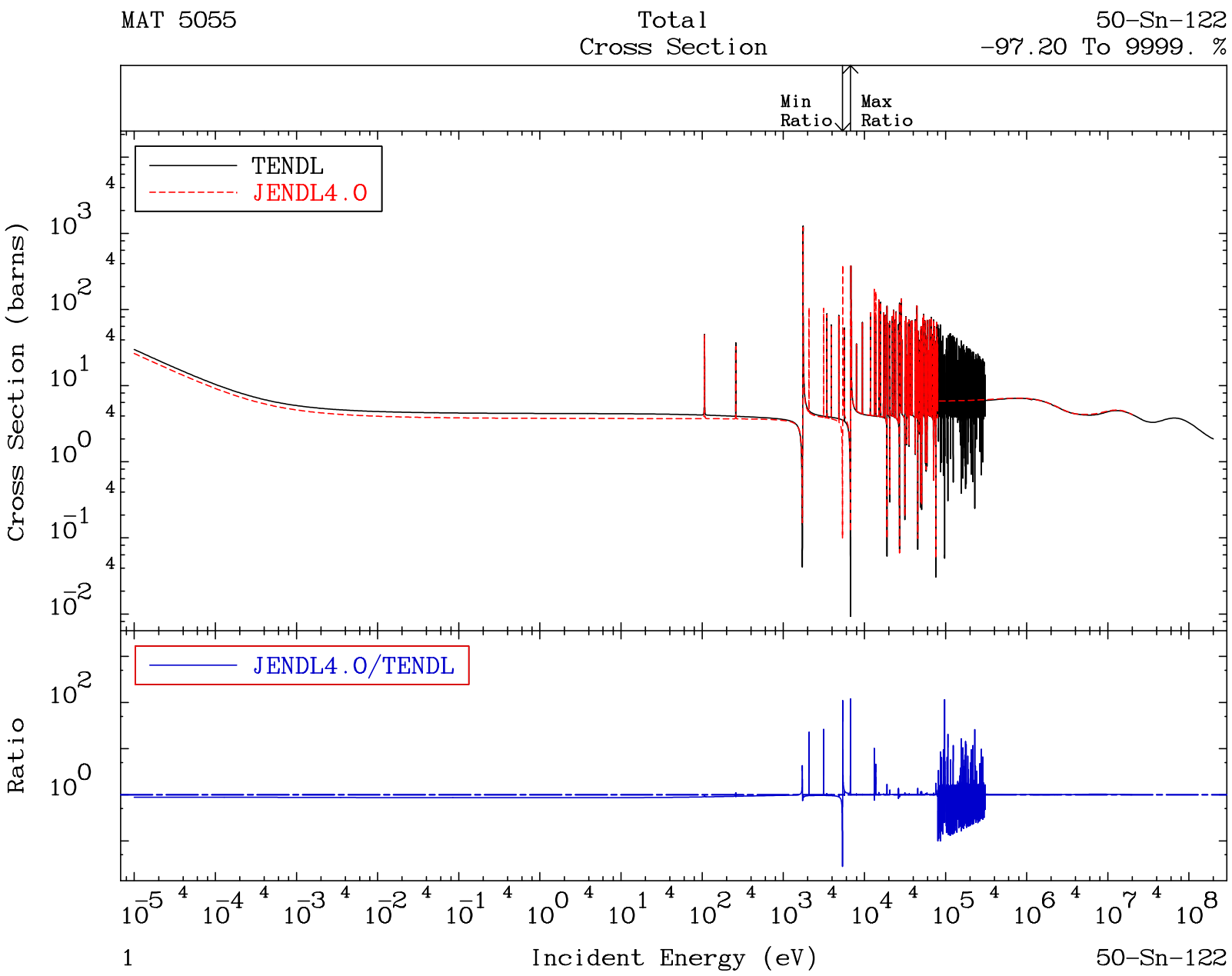
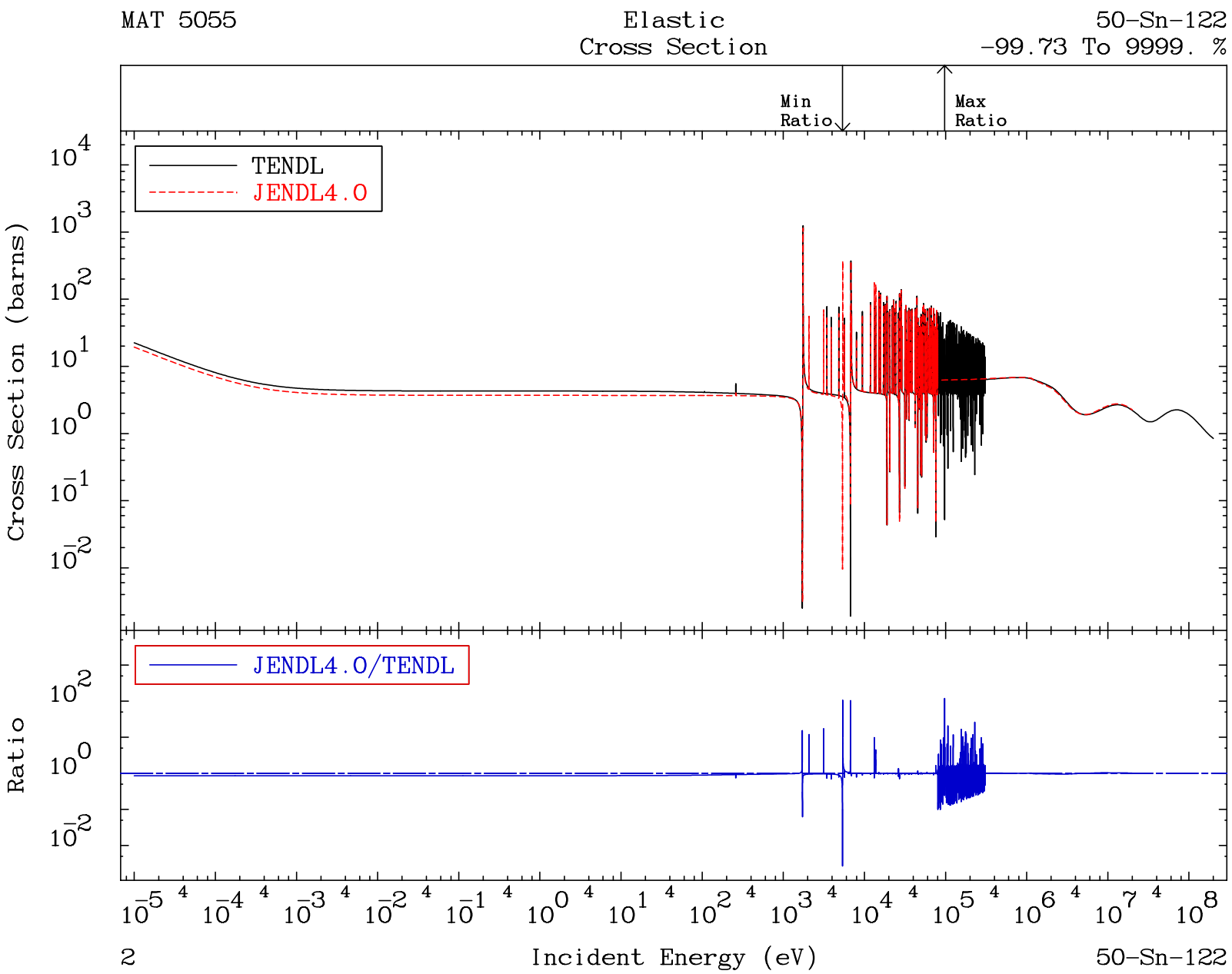
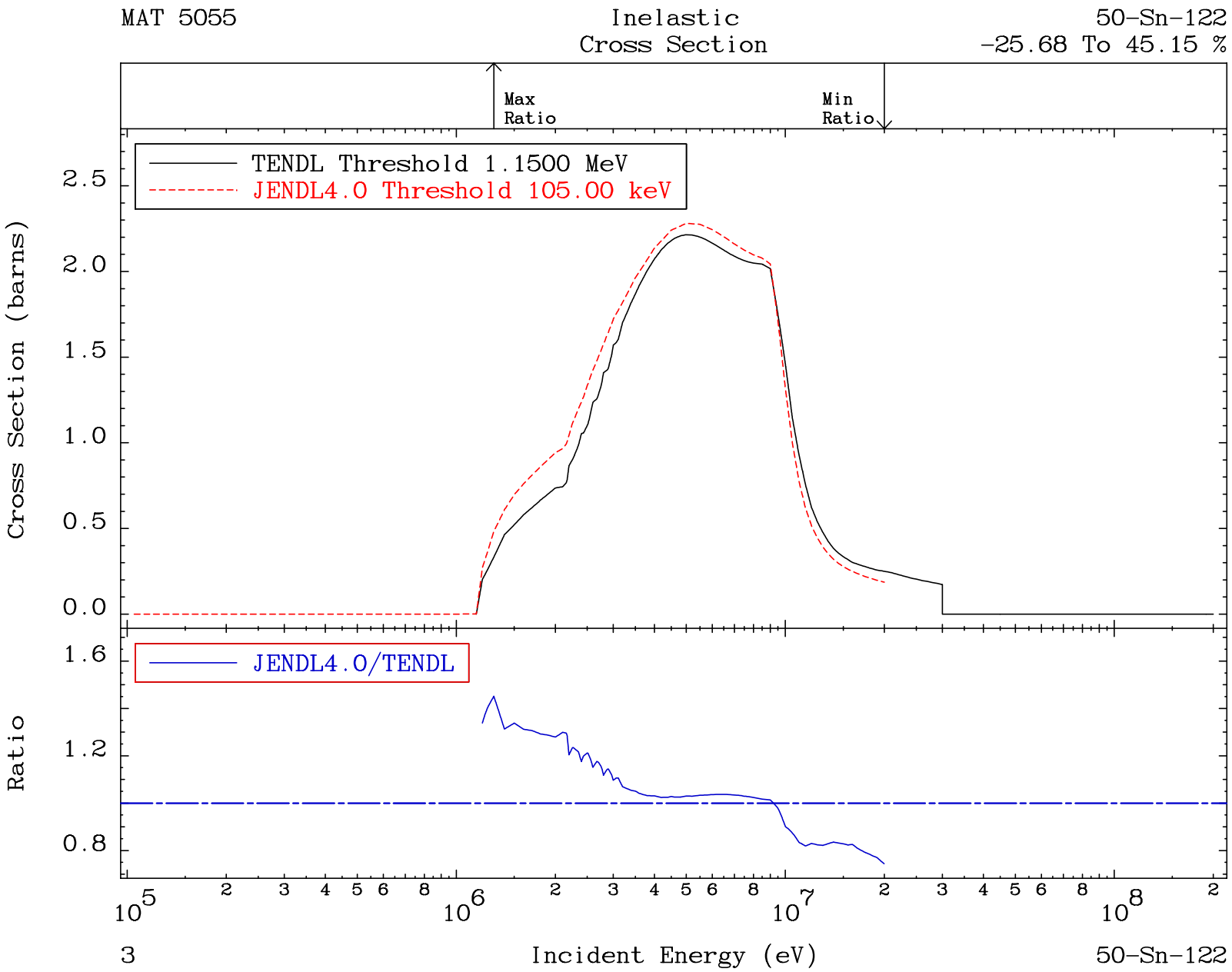
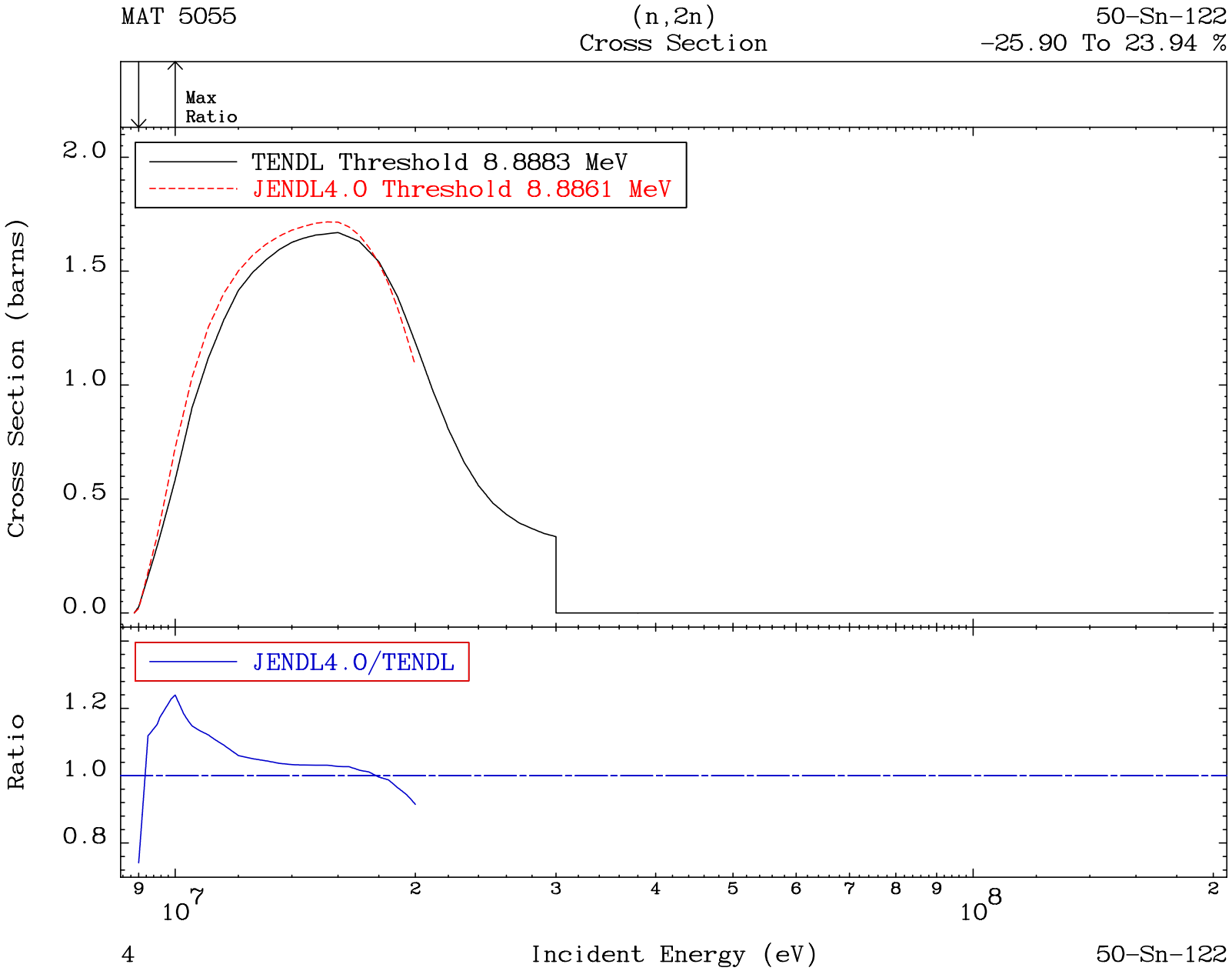
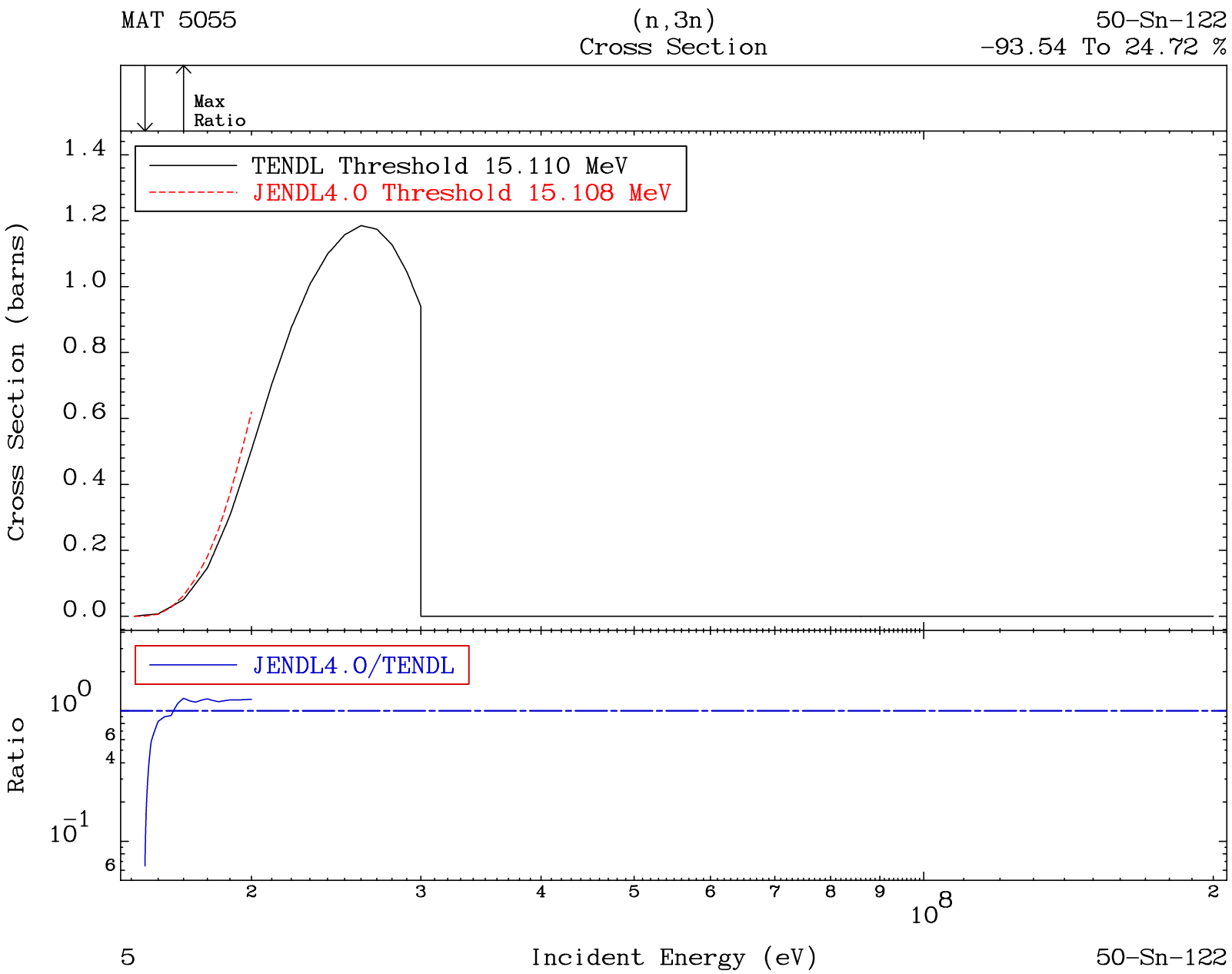
Press Mouse Button to Start

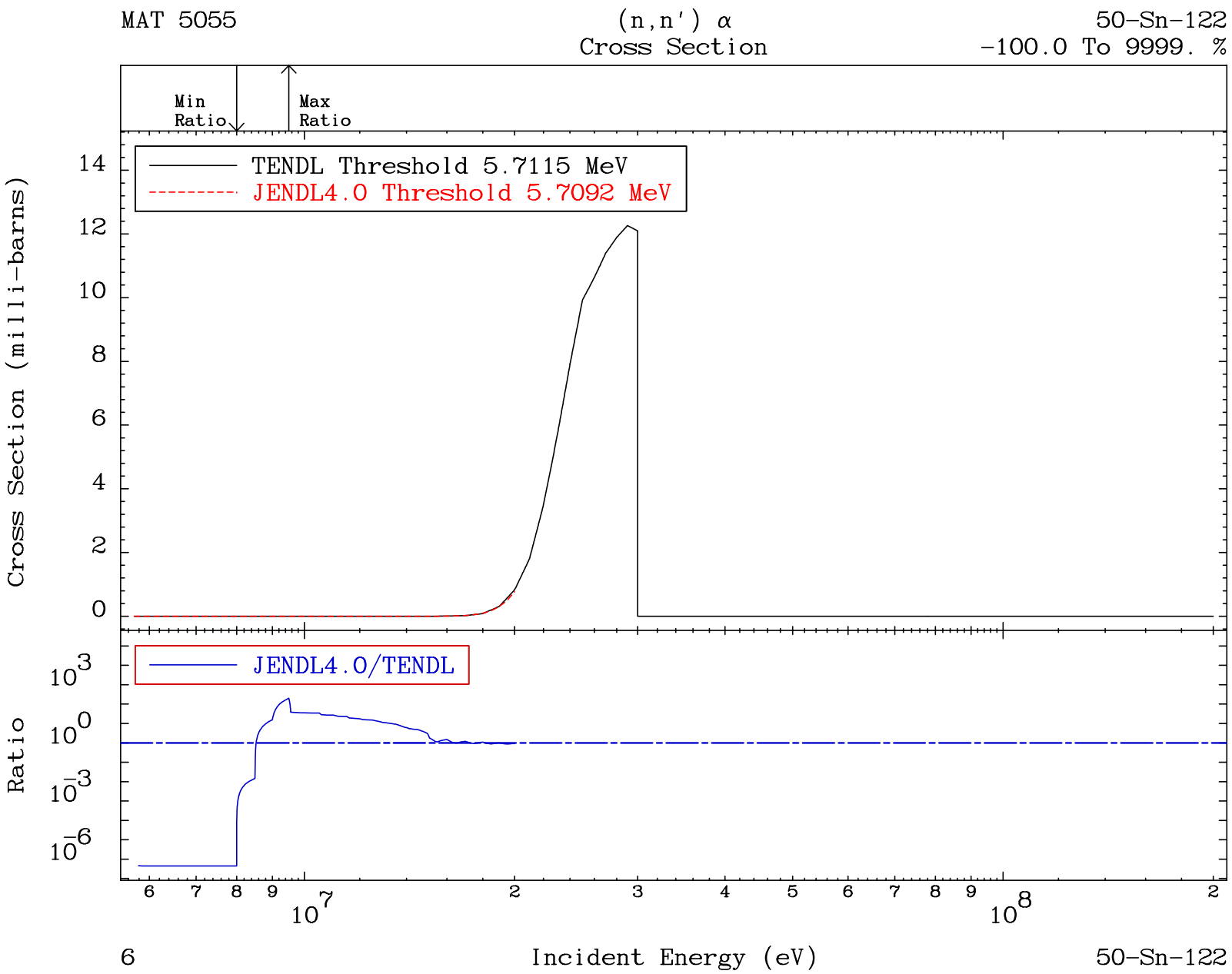

MAT 5055
Total
Cross Section
50-Sn-122
-97.20 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
1
50-Sn-122

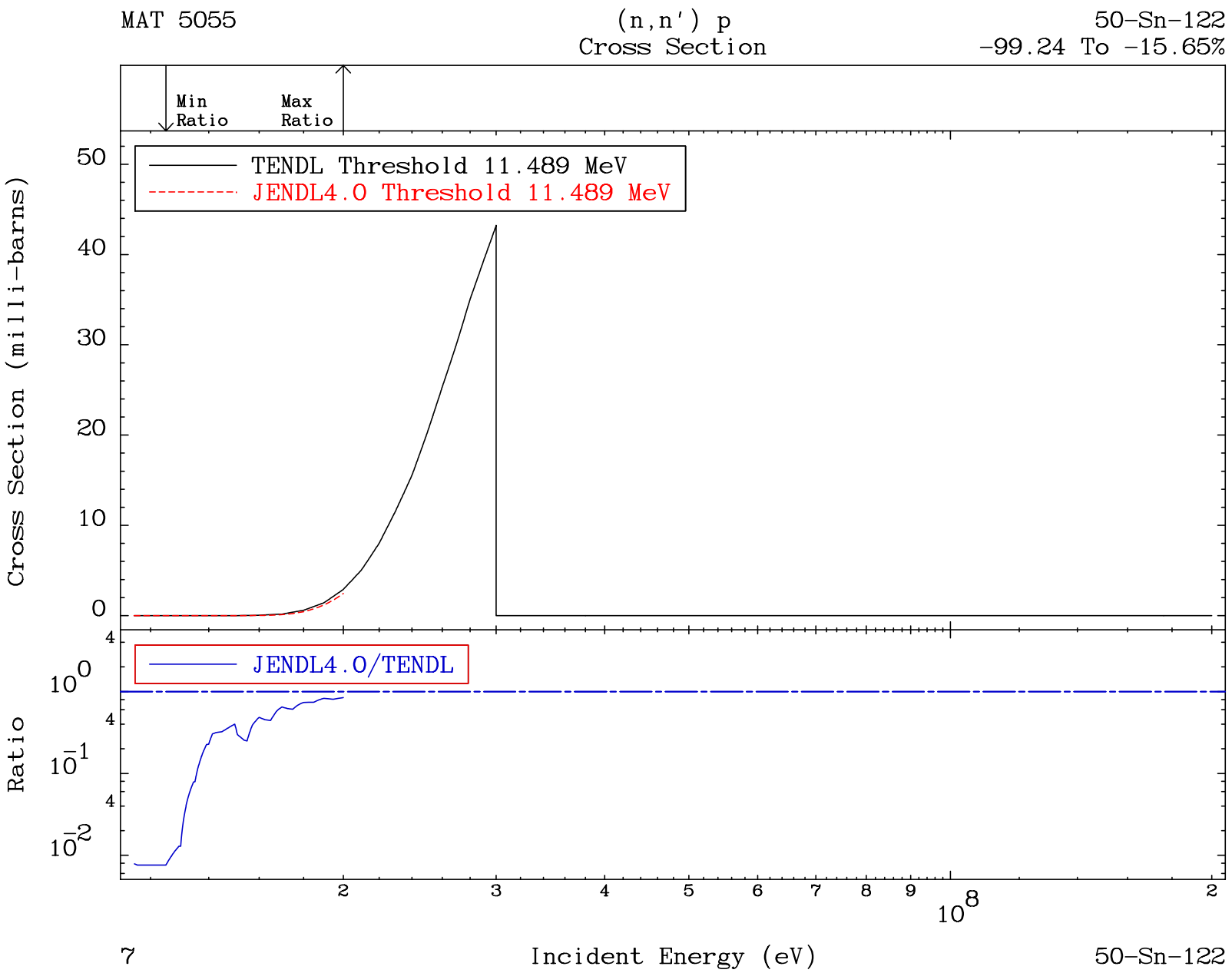

MAT 5055
Elastic
Cross Section
50-Sn-122
-99.73 To 9999. %
Min
Ratio
Max
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
50-Sn-122

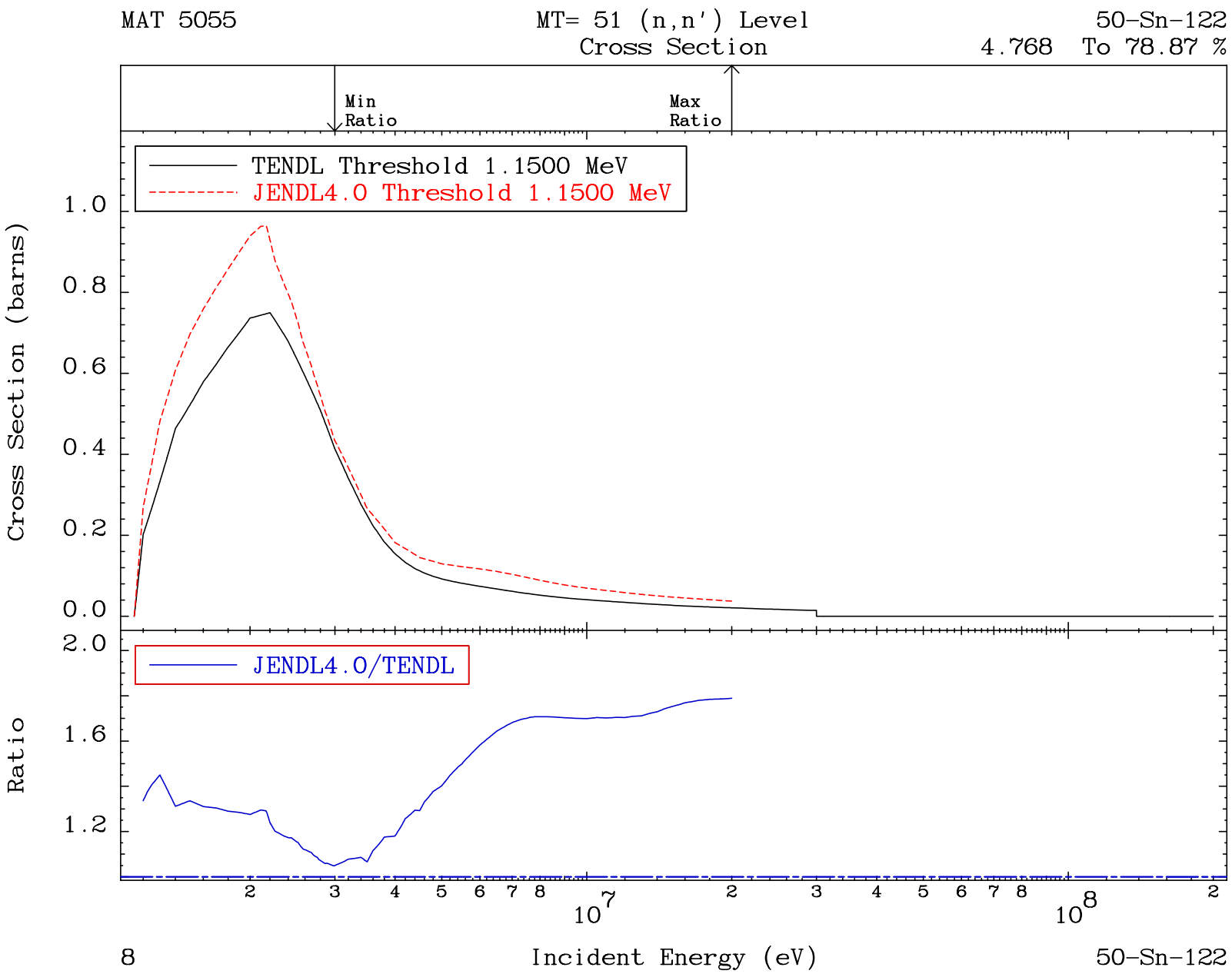

MAT 5055
Inelastic
Cross Section
50-Sn-122
-25.68 To 45.15 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.1500 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
50-Sn-122

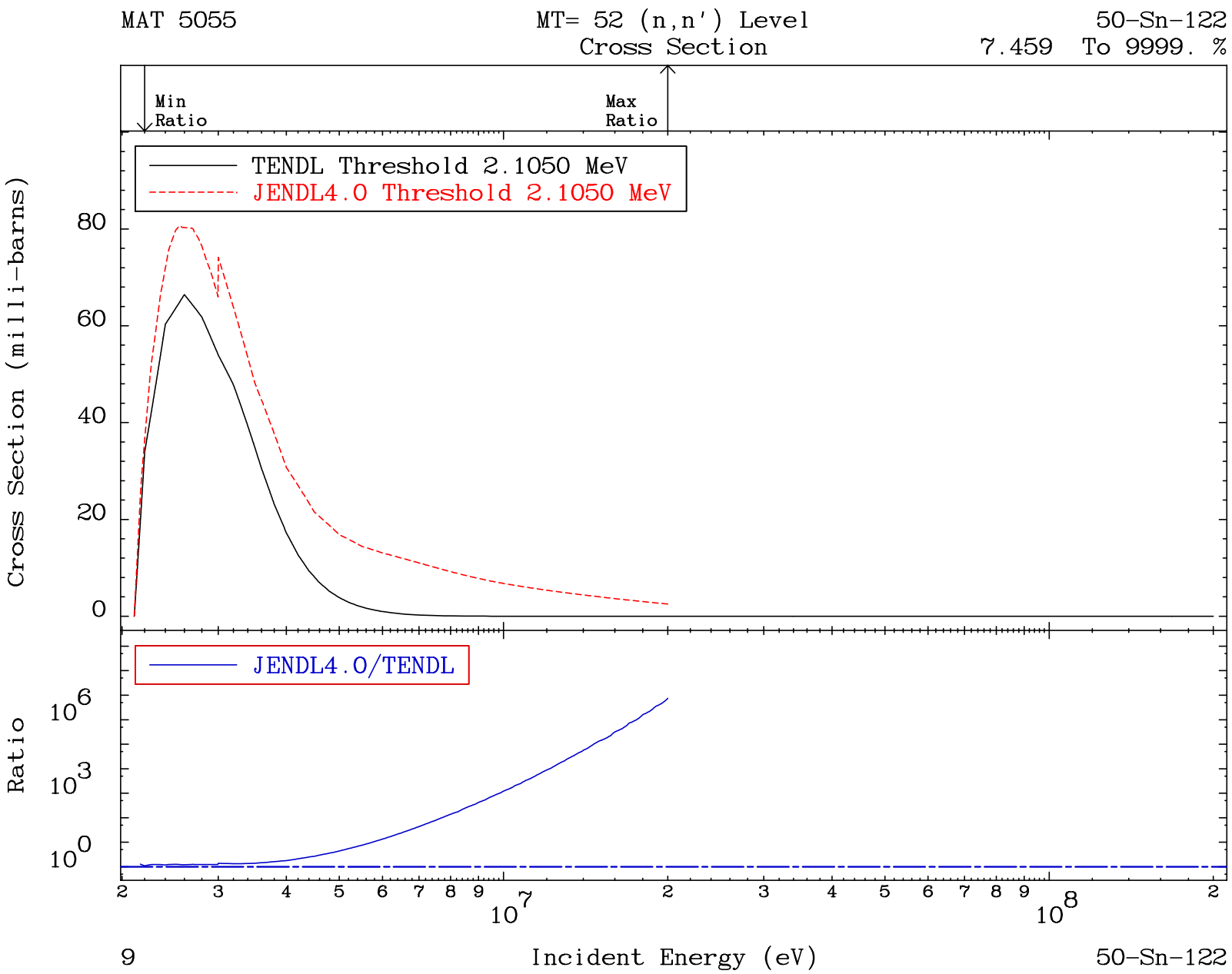

MAT 5055
(n,2n)
Cross Section
50-Sn-122
-25.90 To 23.94 %
Max
Ratio
TENDL Threshold 8.8883 MeV
JENDL4.0 Threshold 8.8861 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
1.2
1.0
0.8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
50-Sn-122

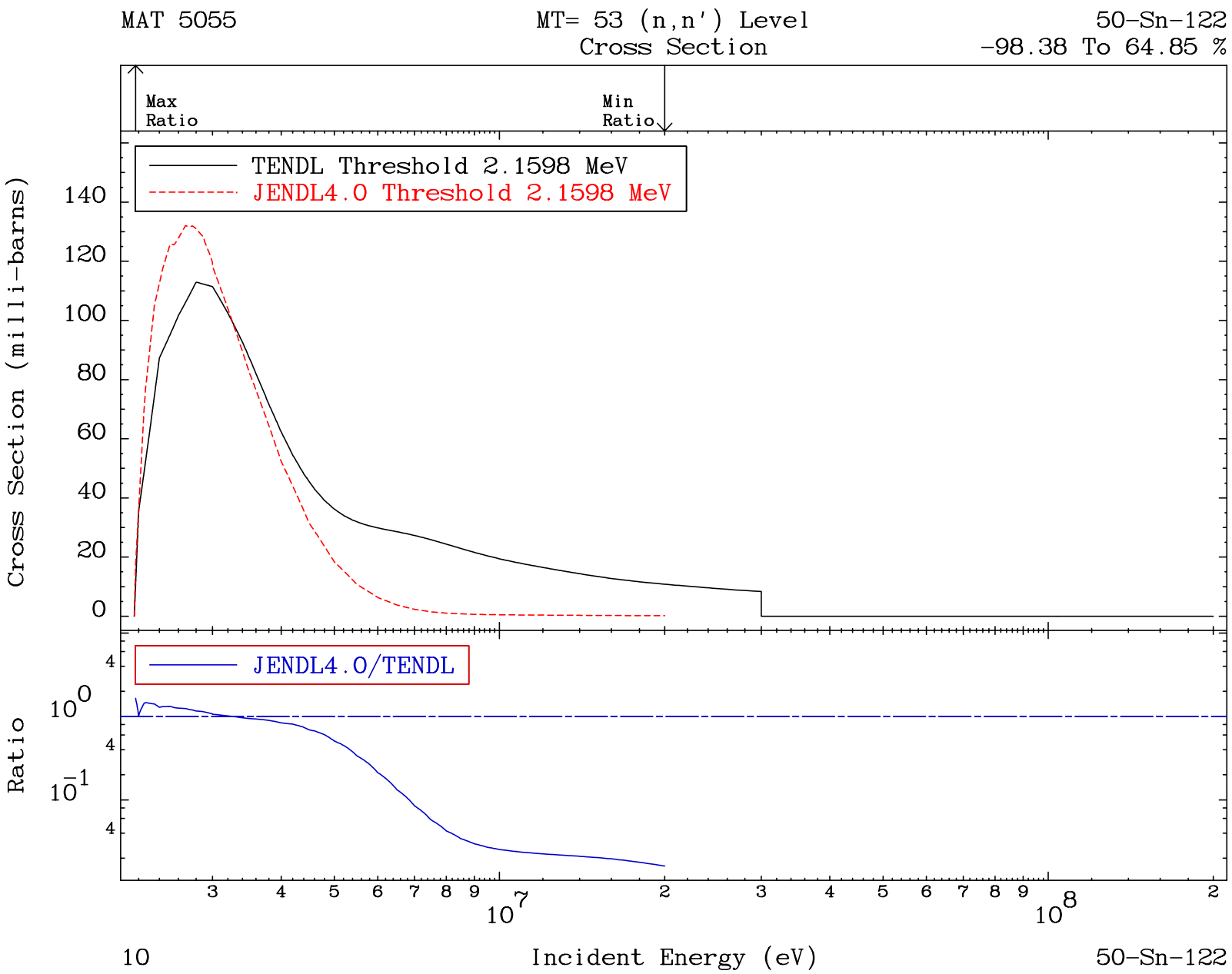

MAT 5055
(n,3n)
Cross Section
50-Sn-122
-93.54 To 24.72 %
Max
Ratio
TENDL Threshold 15.110 MeV
JENDL4.0 Threshold 15.108 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^0
6
4
10^-1
6
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
50-Sn-122

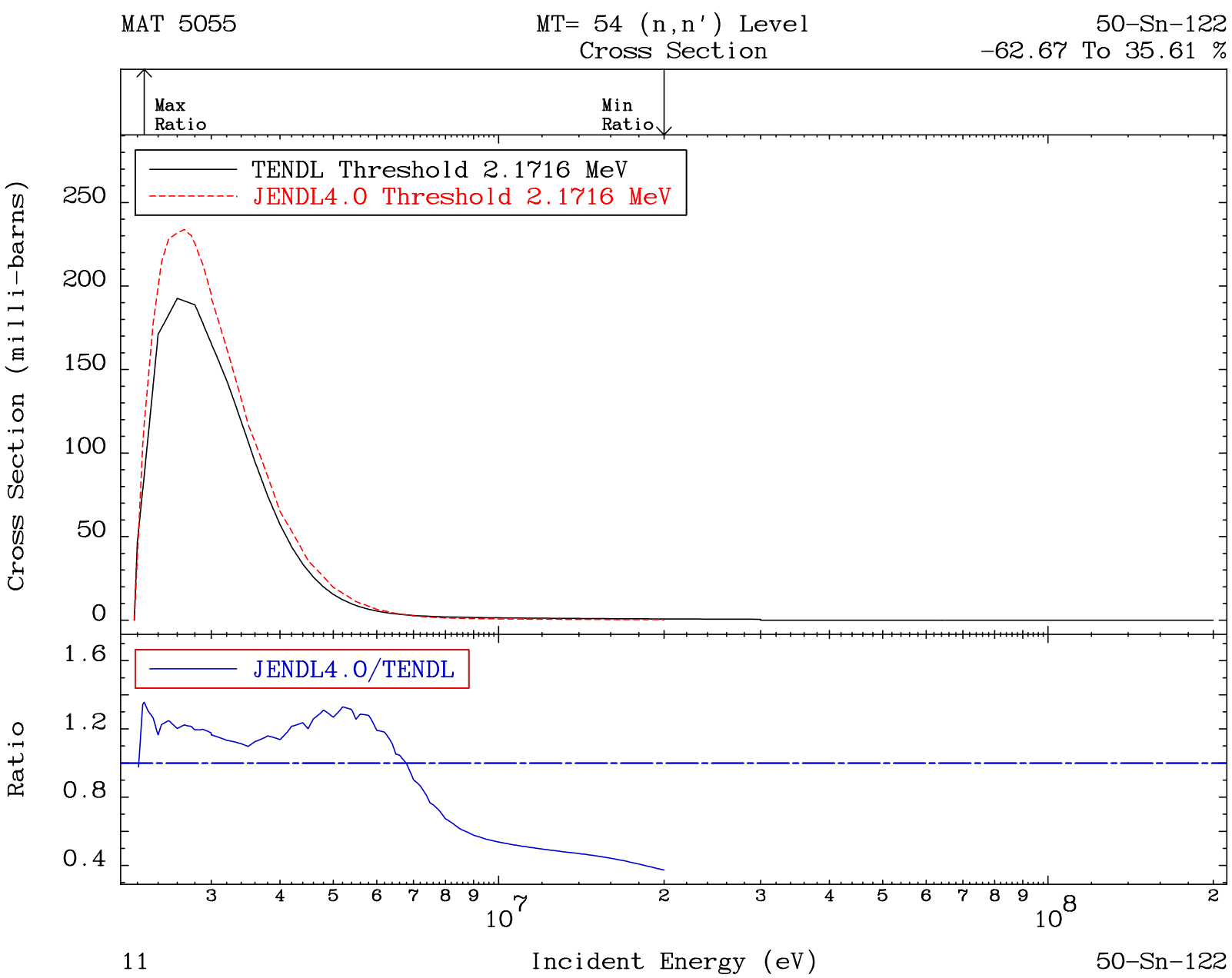

MAT 5055
(n,n') α
Cross Section
50-Sn-122
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.7115 MeV
JENDL4.0 Threshold 5.7092 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
6
50-Sn-122

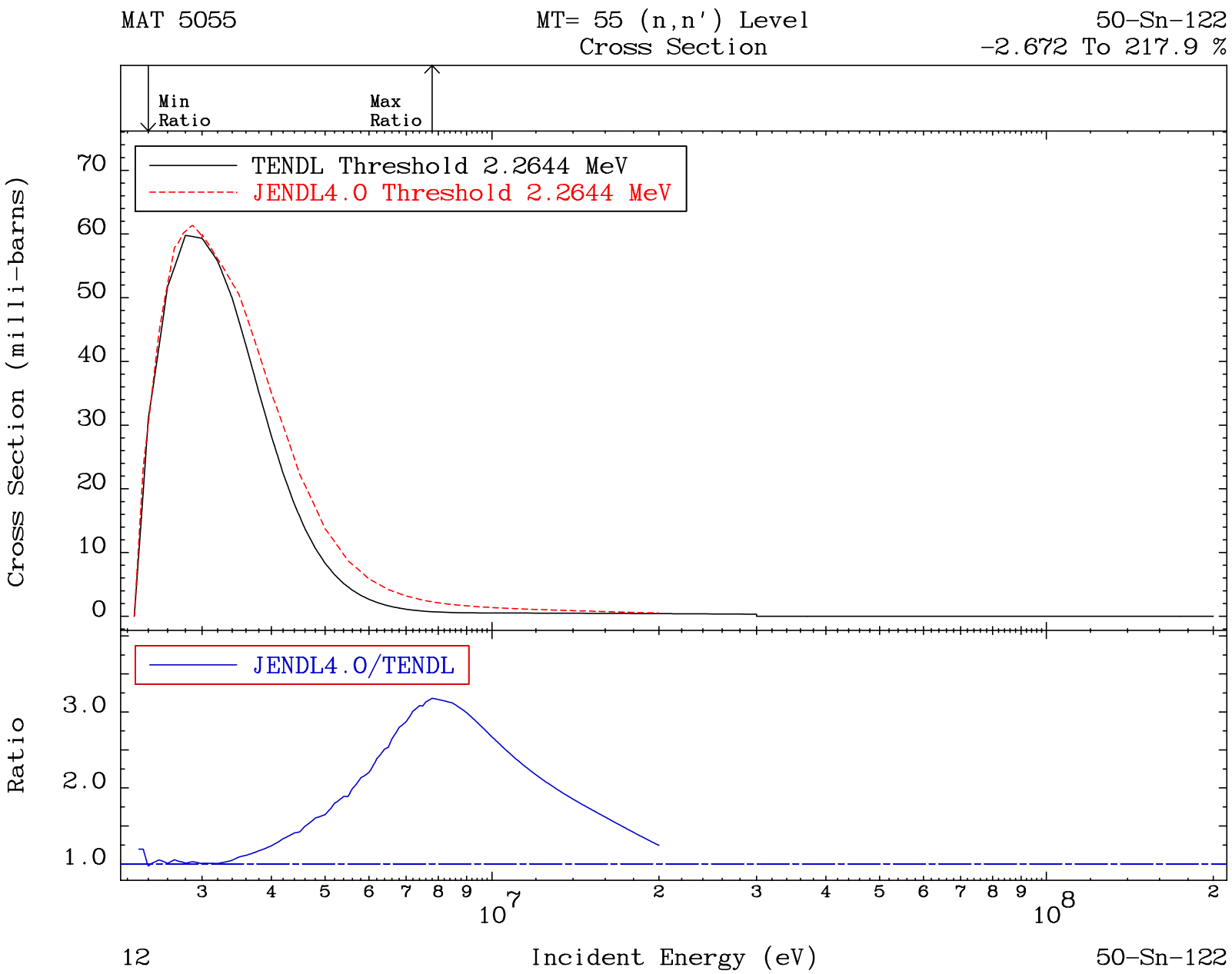

MAT 5055
(n,n') p
Cross Section
50-Sn-122
-99.24 To -15.65%
Min Ratio
Max Ratio
TENDL Threshold 11.489 MeV
JENDL4.0 Threshold 11.489 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
7
50-Sn-122

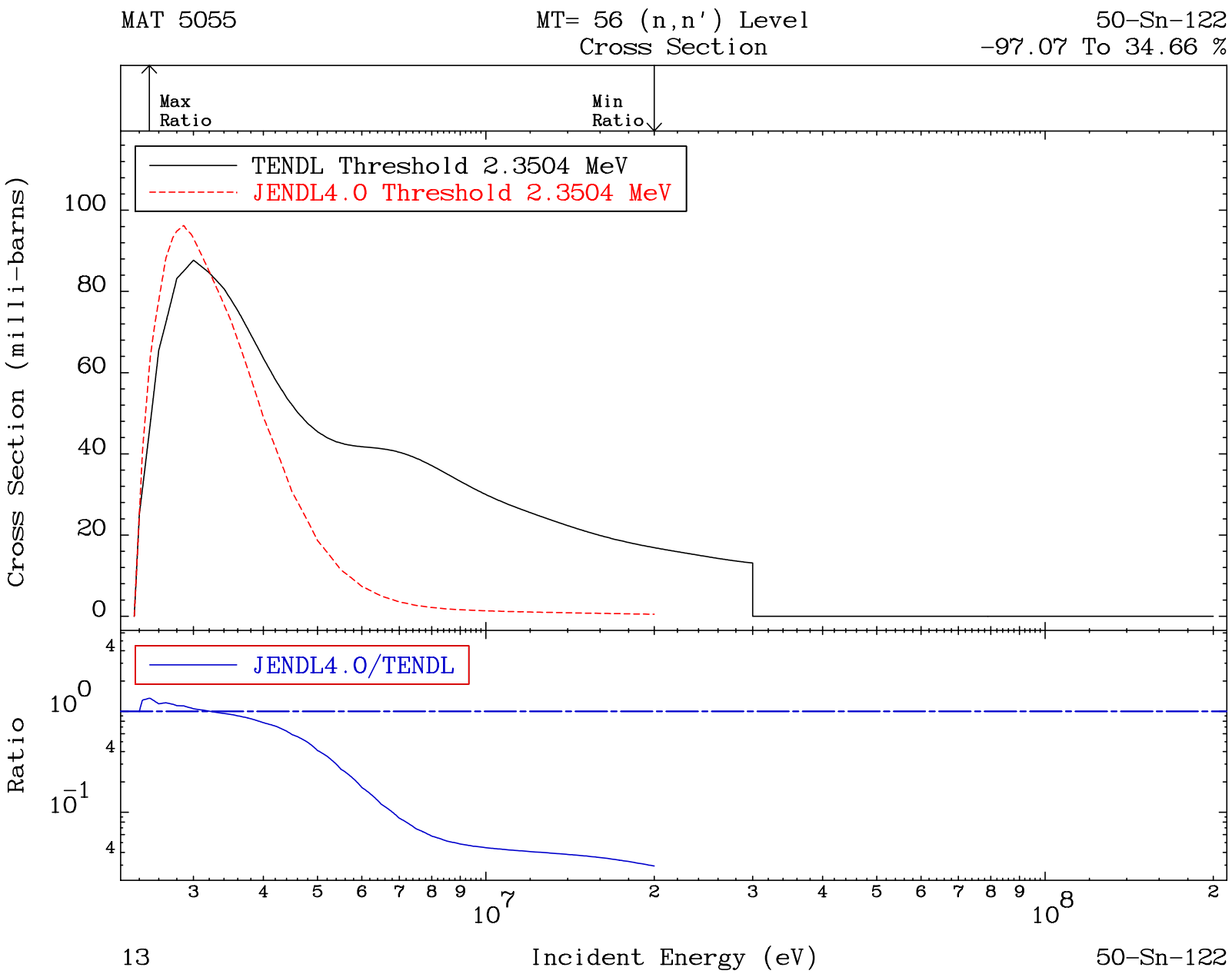

MAT 5055
MT= 51 (n,n') Level
Cross Section
50-Sn-122
4.768 To 78.87 %
Min Ratio
Max Ratio
TENDL Threshold 1.1500 MeV
JENDL4.0 Threshold 1.1500 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
2.0
1.6
1.2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
50-Sn-122

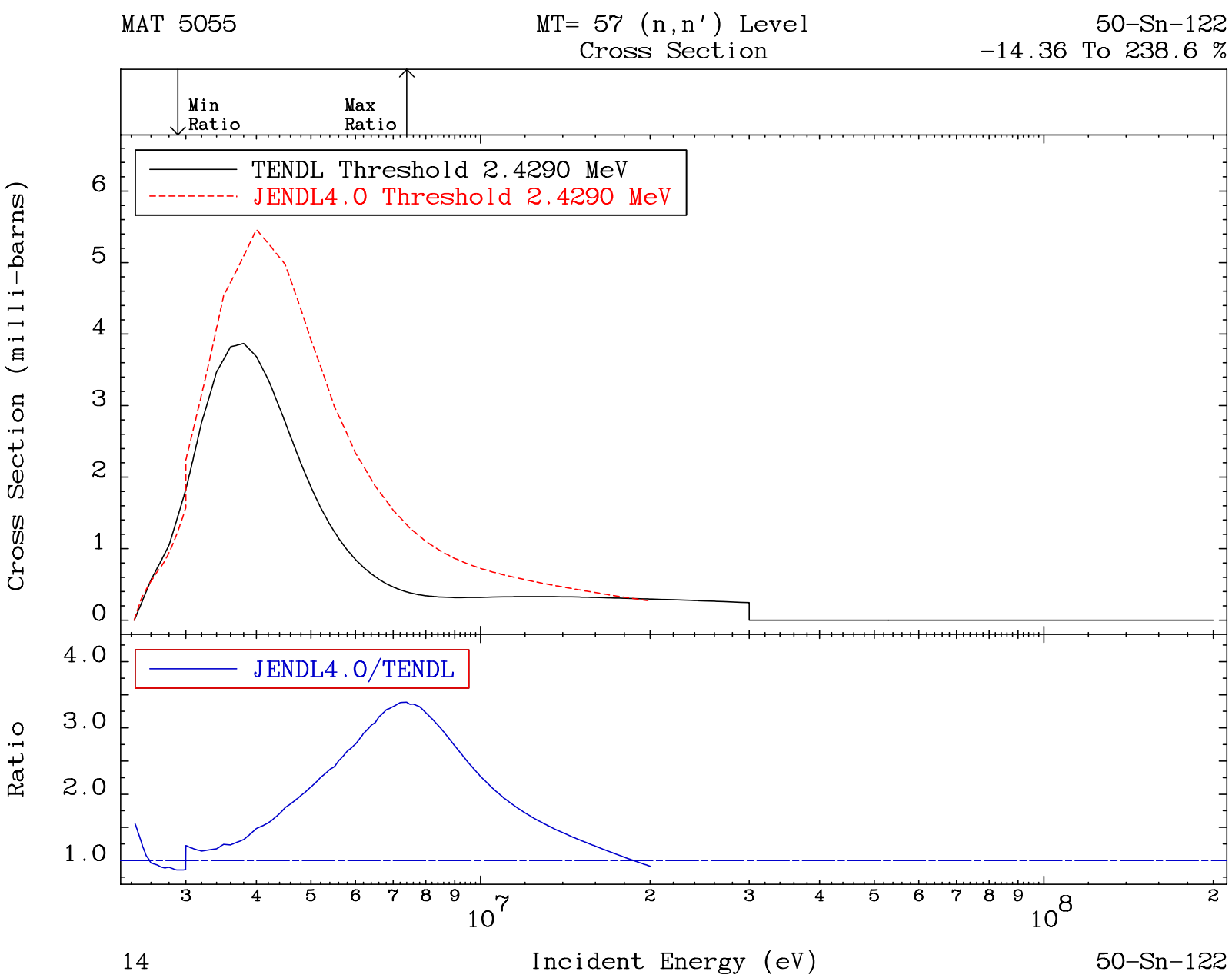

MAT 5055
MT= 52 (n,n') Level
Cross Section
50-Sn-122
7.459 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.1050 MeV
JENDL4.0 Threshold 2.1050 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^6
10^3
10^0
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
50-Sn-122

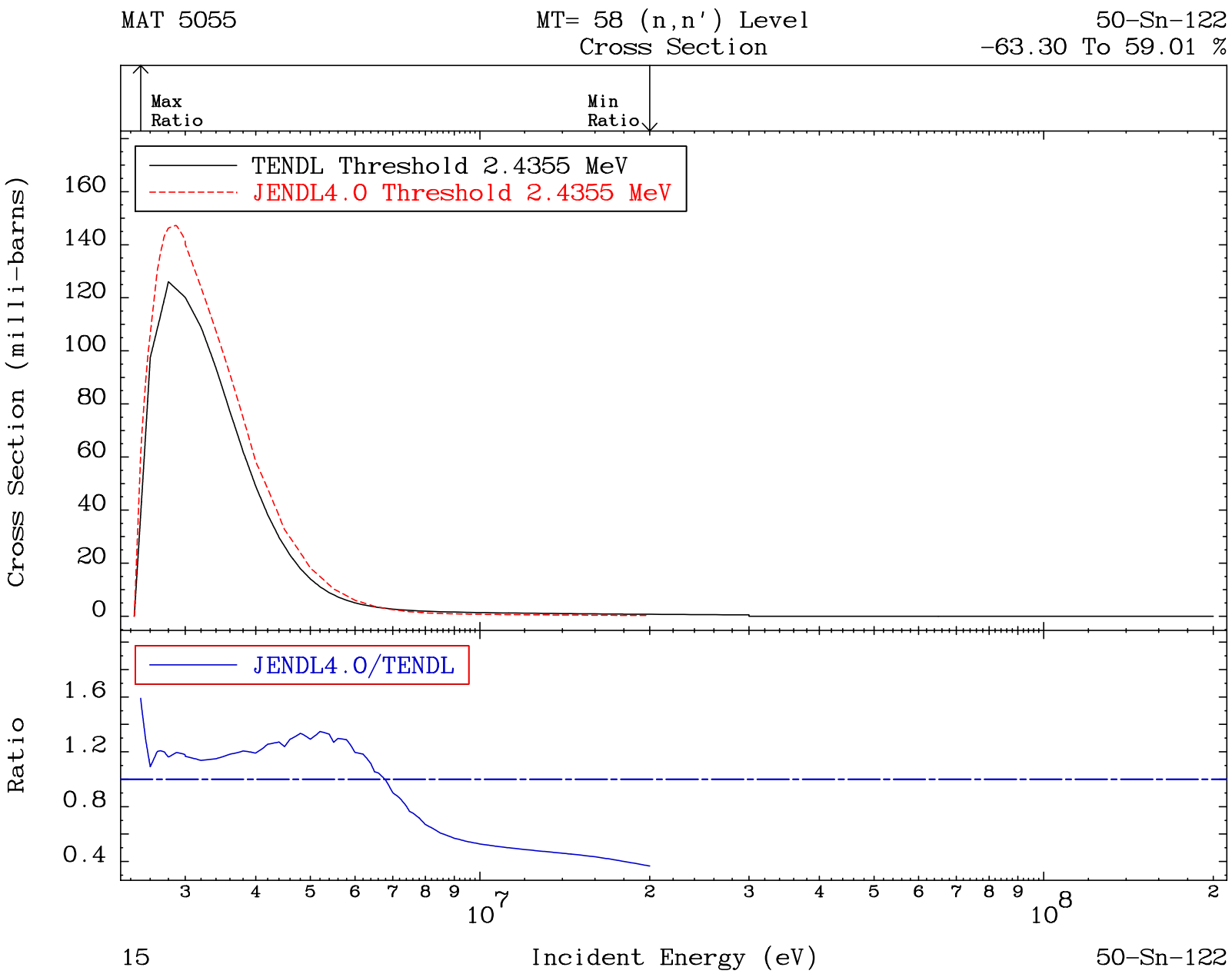

MAT 5055
MT= 53 (n,n') Level
Cross Section
50-Sn-122
-98.38 To 64.85 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.1598 MeV
JENDL4.0 Threshold 2.1598 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
50-Sn-122

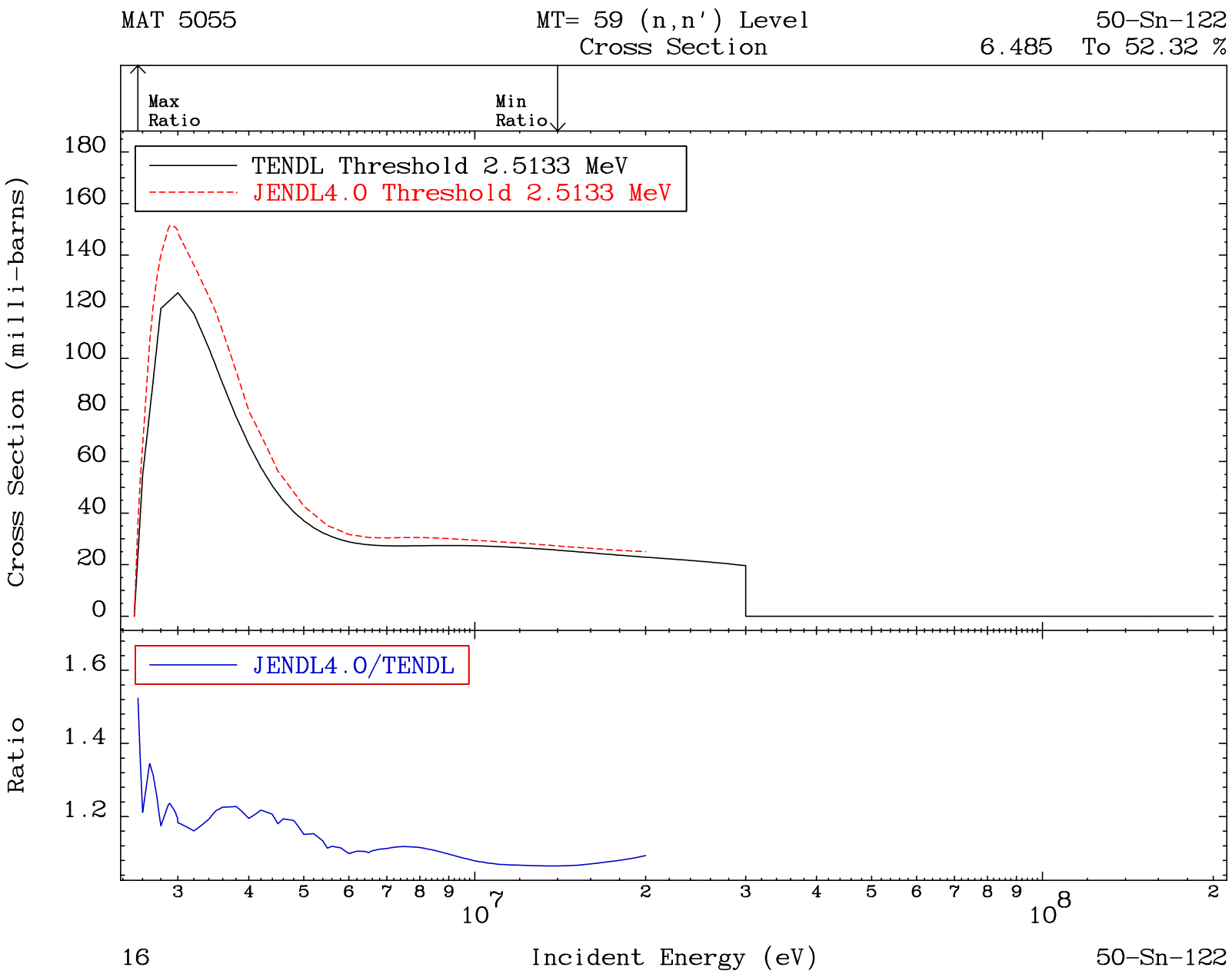

MAT 5055
MT= 54 (n,n') Level
Cross Section
50-Sn-122
-62.67 To 35.61 %
Max Ratio
Min Ratio
TENDL Threshold 2.1716 MeV
JENDL4.0 Threshold 2.1716 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
50-Sn-122

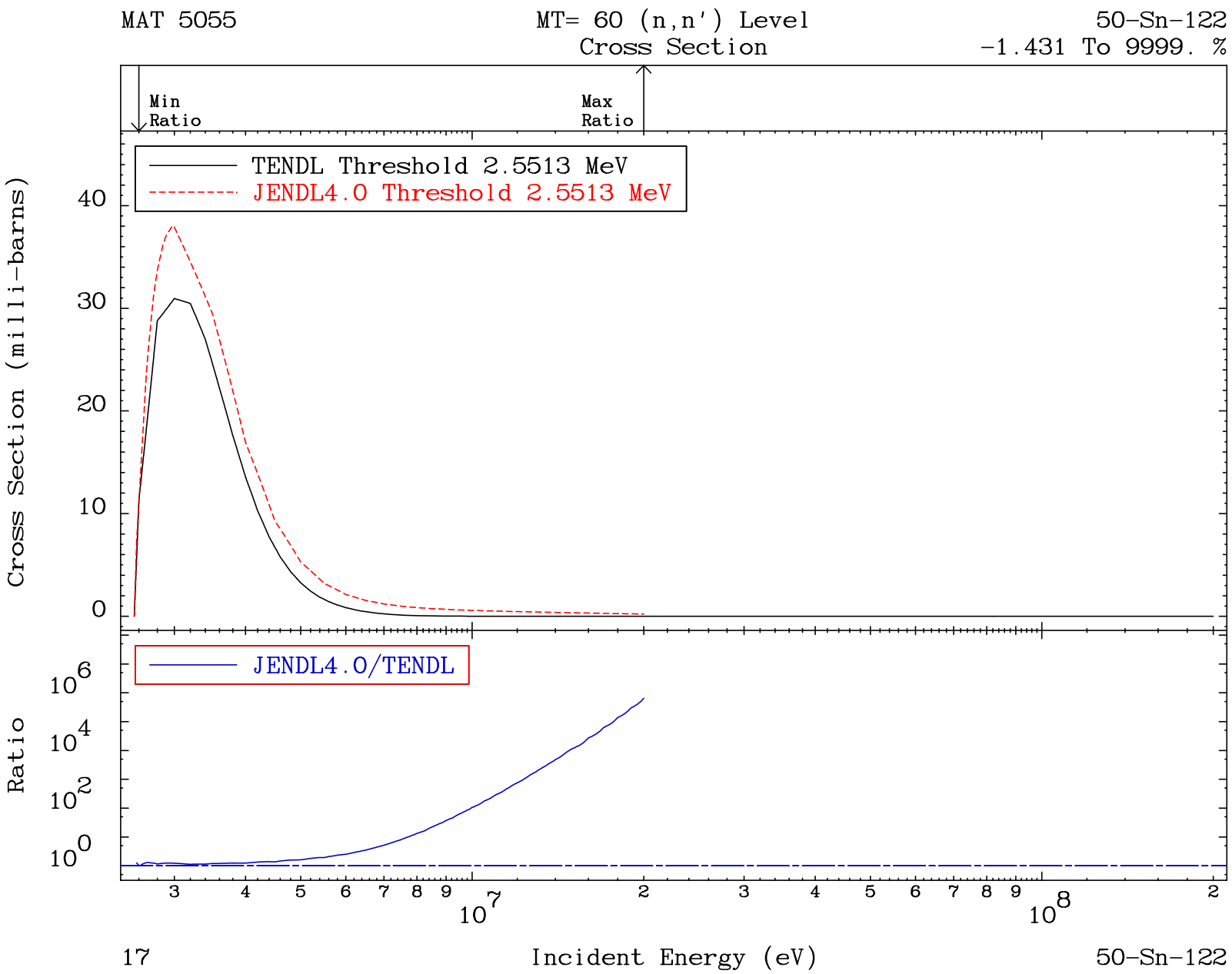

MAT 5055
MT= 55 (n,n') Level
Cross Section
50-Sn-122
-2.672 To 217.9 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.2644 MeV
JENDL4.0 Threshold 2.2644 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
50-Sn-122

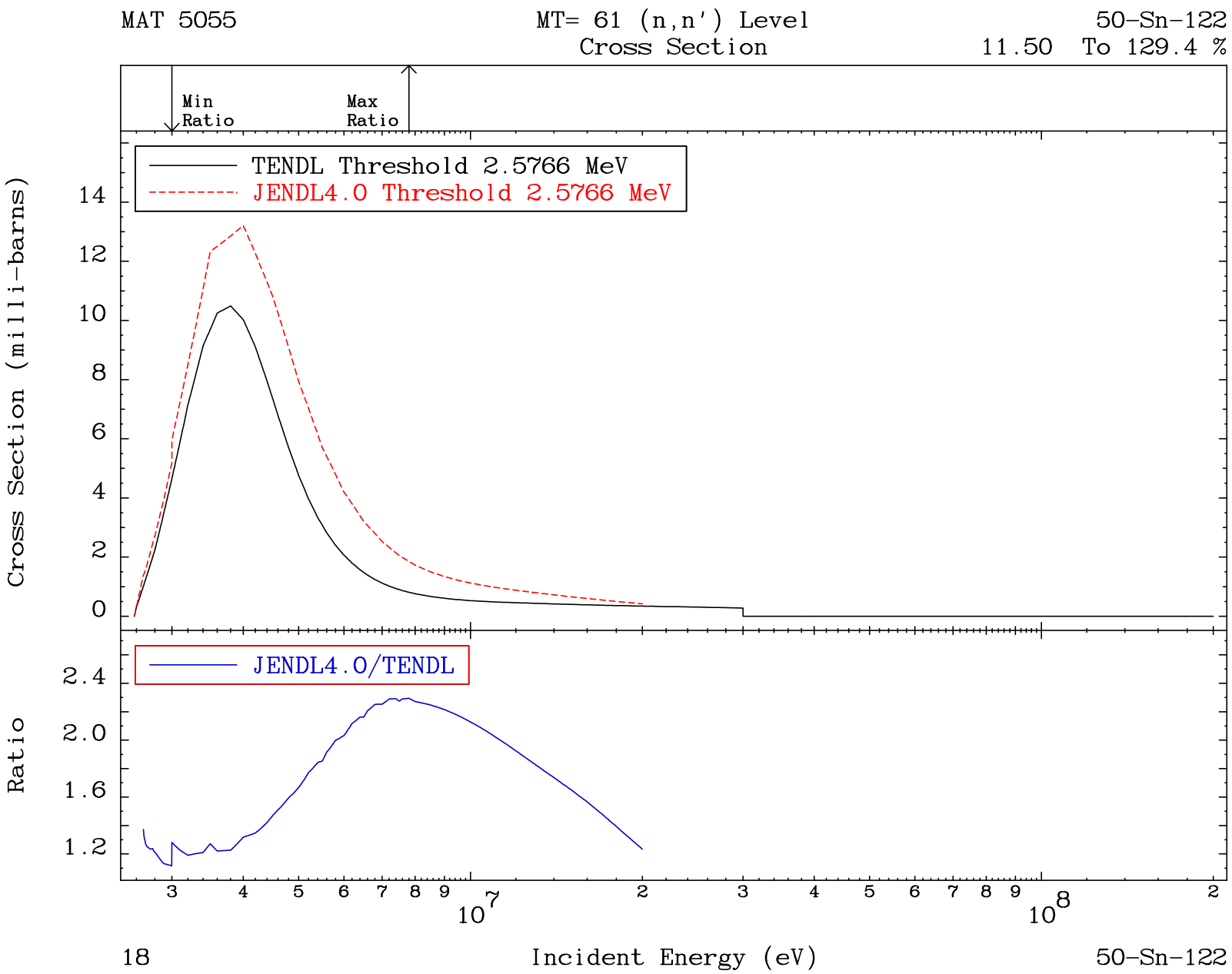

MAT 5055
MT= 56 (n,n') Level
Cross Section
50-Sn-122
-97.07 To 34.66 %
Max Ratio
Min Ratio
TENDL Threshold 2.3504 MeV
JENDL4.0 Threshold 2.3504 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
50-Sn-122

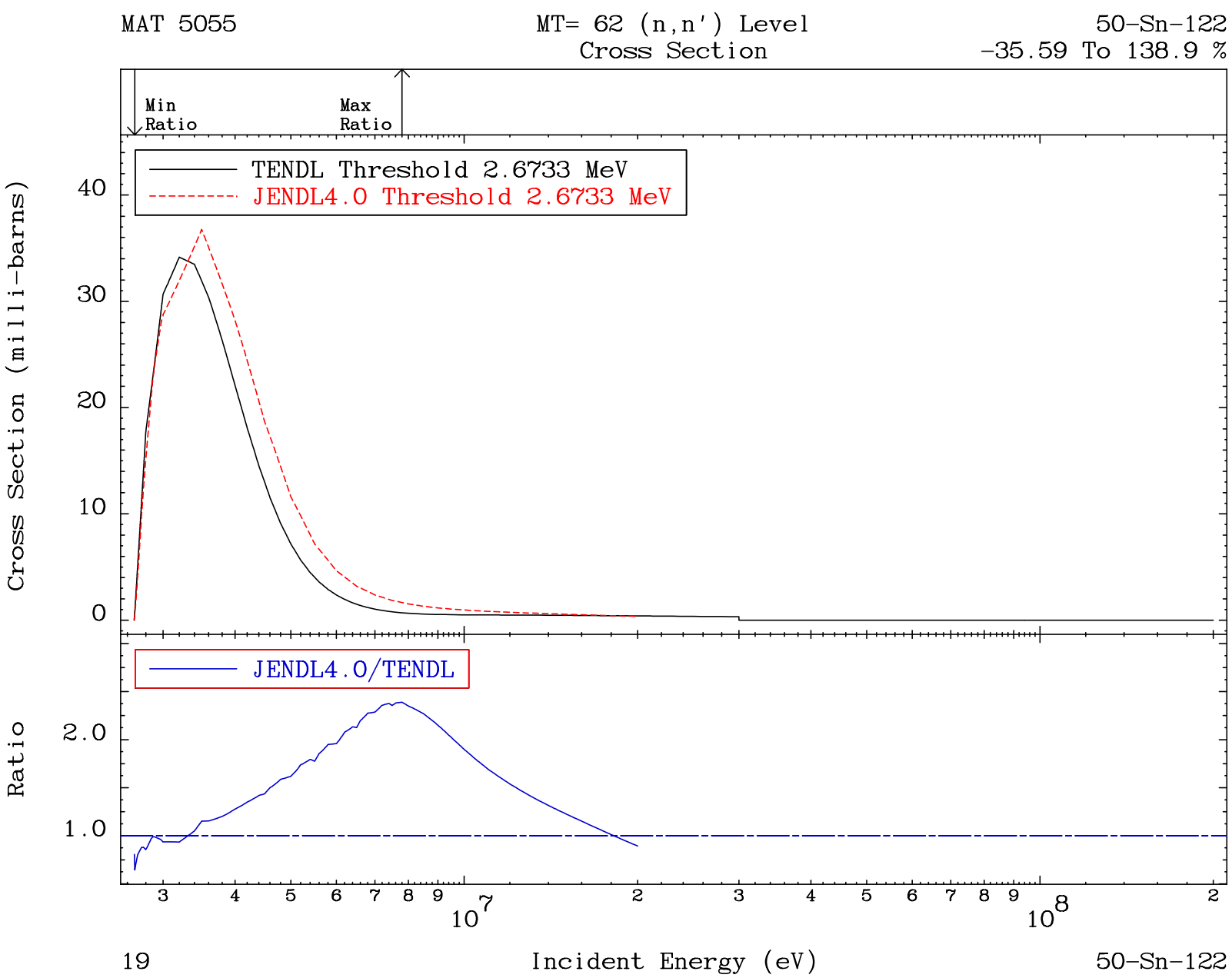

MAT 5055
MT= 57 (n,n') Level
Cross Section
50-Sn-122
-14.36 To 238.6 %
Min Ratio
Max Ratio
TENDL Threshold 2.4290 MeV
JENDL4.0 Threshold 2.4290 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
14
50-Sn-122

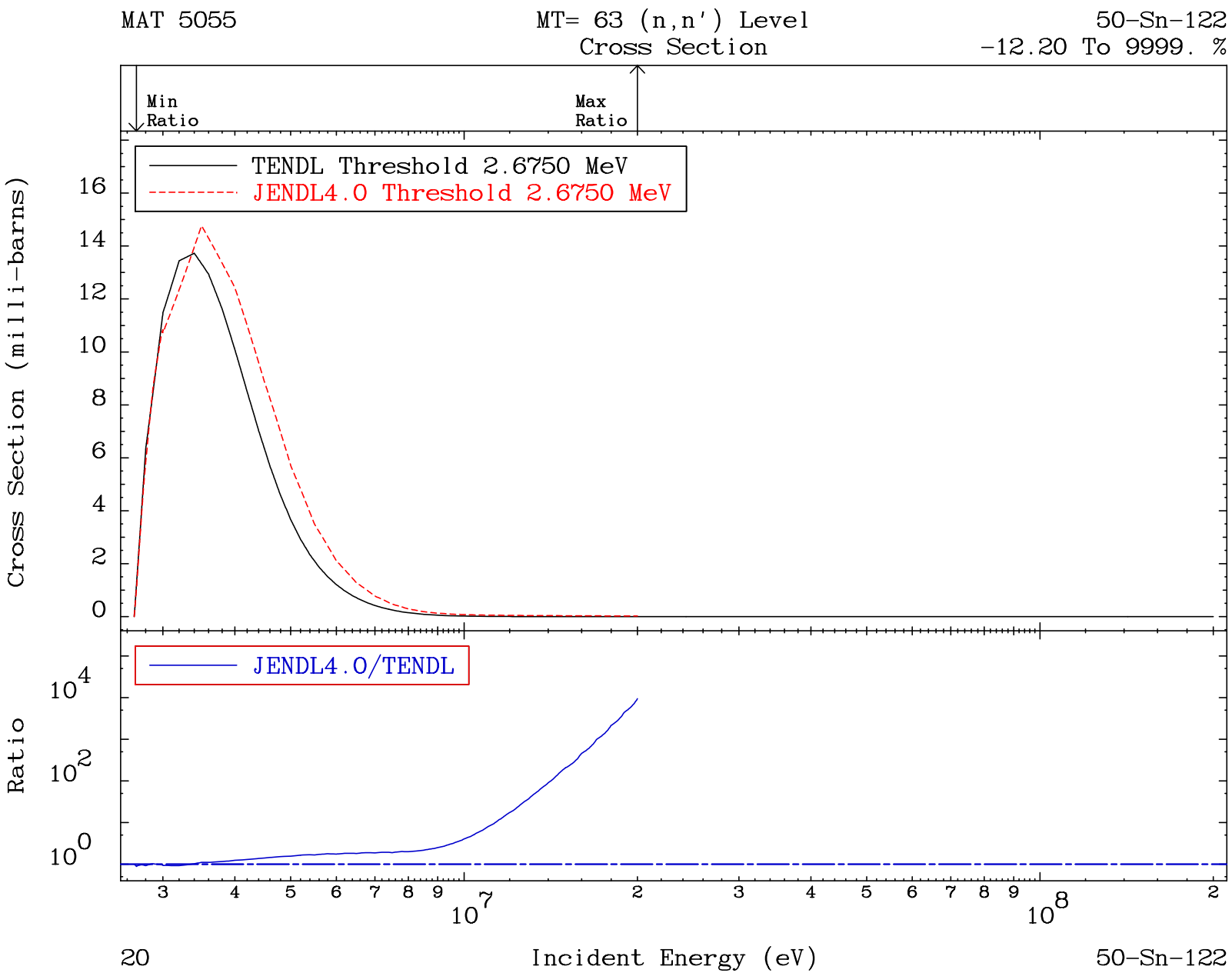

MAT 5055
MT= 58 (n,n') Level
Cross Section
50-Sn-122
-63.30 To 59.01 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.4355 MeV
JENDL4.0 Threshold 2.4355 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
50-Sn-122

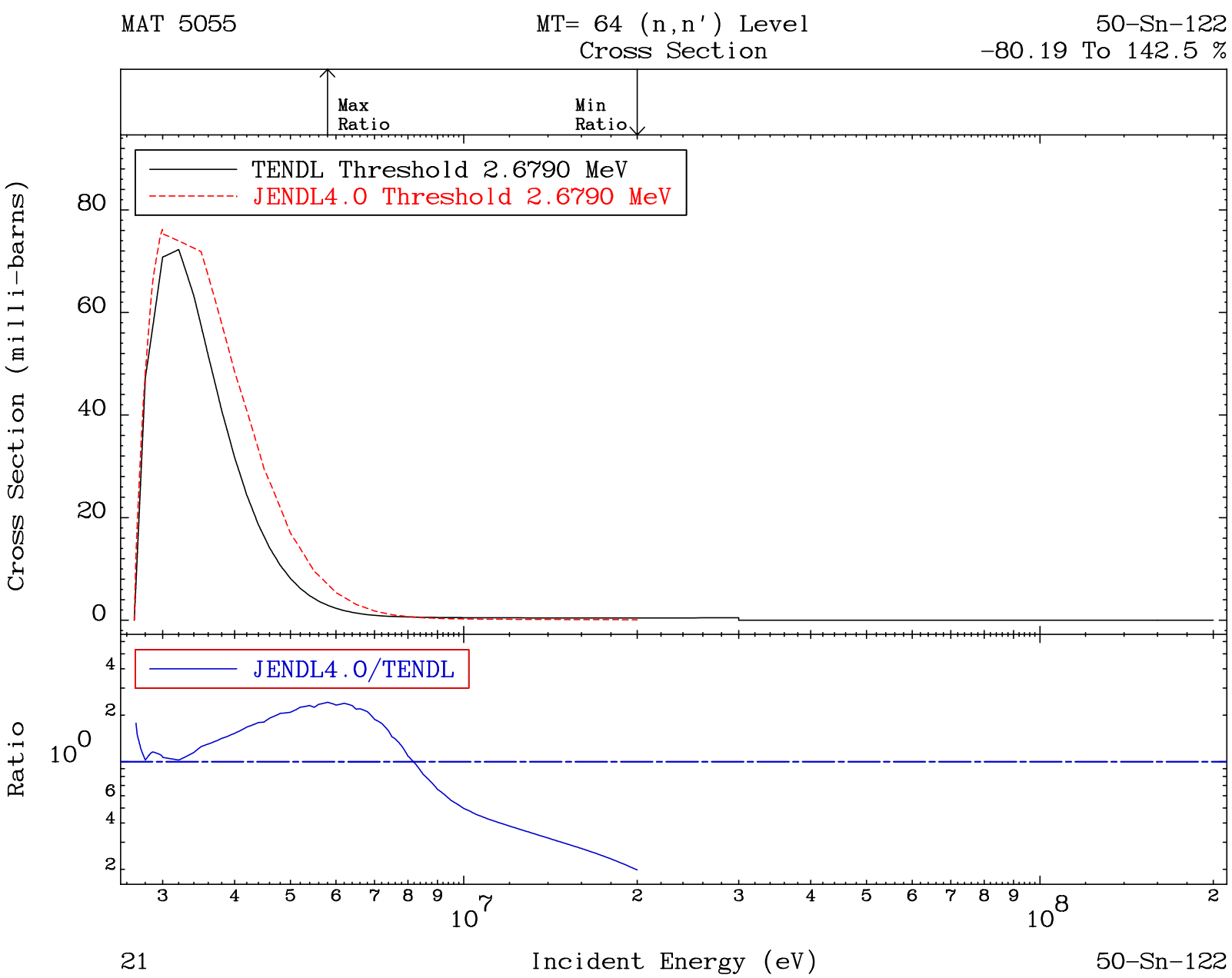

MAT 5055
MT= 59 (n,n') Level
Cross Section
50-Sn-122
6.485 To 52.32 %
Max Ratio
Min Ratio
TENDL Threshold 2.5133 MeV
JENDL4.0 Threshold 2.5133 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.6
1.4
1.2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
50-Sn-122

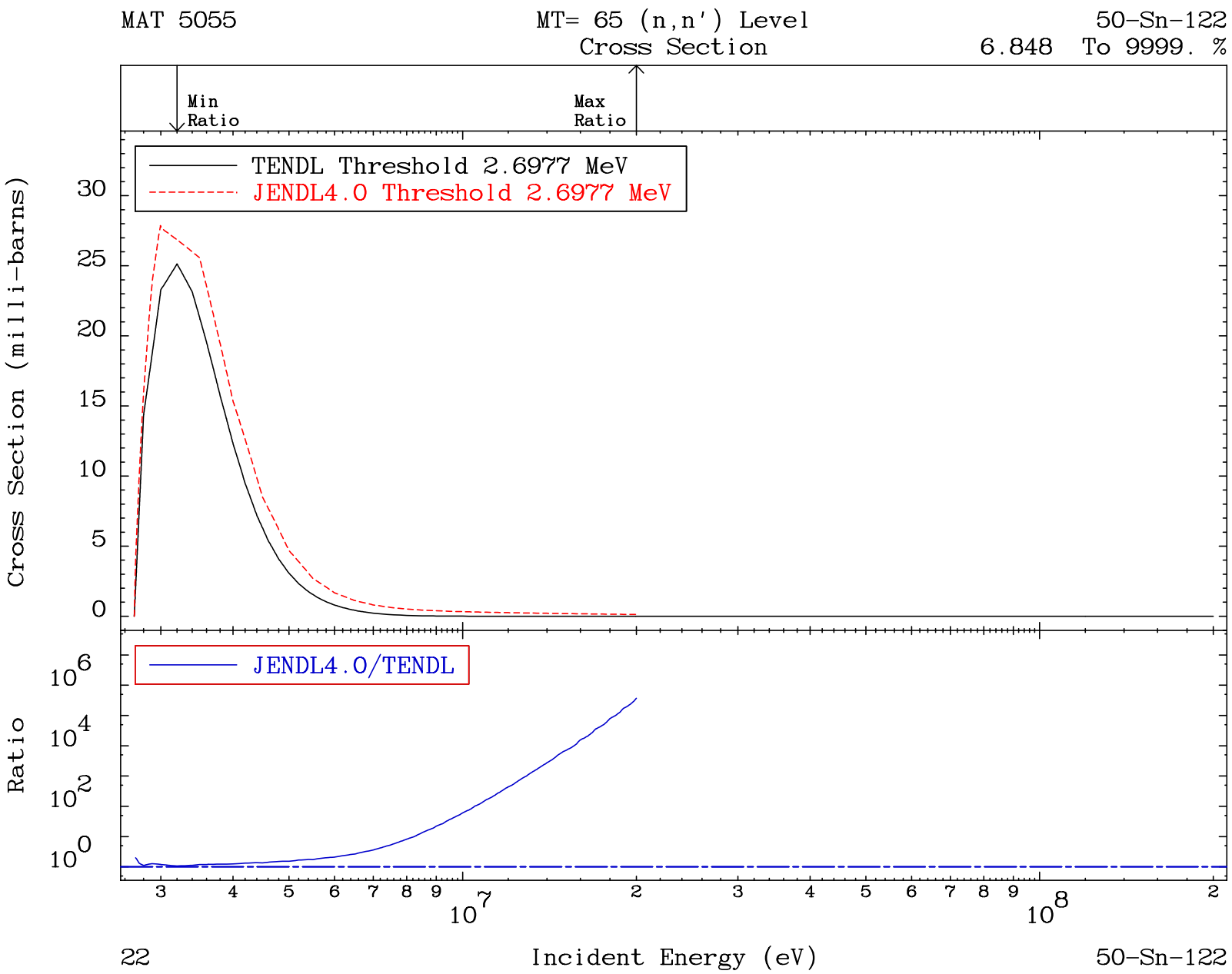

MAT 5055
MT= 60 (n,n') Level
Cross Section
50-Sn-122
-1.431 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.5513 MeV
JENDL4.0 Threshold 2.5513 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
17
Incident Energy (eV)
50-Sn-122

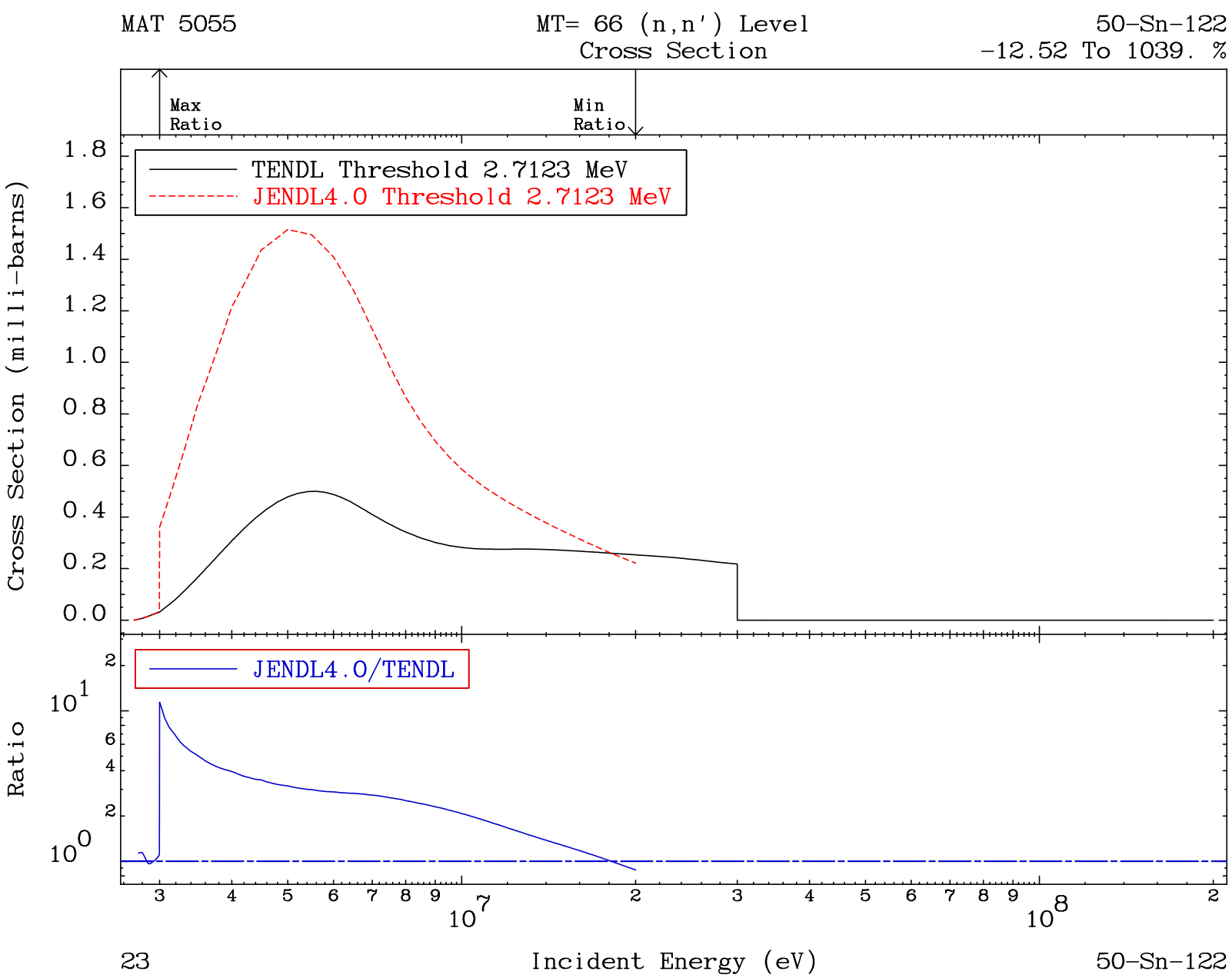

MAT 5055
MT= 61 (n,n') Level
Cross Section
50-Sn-122
11.50 To 129.4 %
Min Ratio
Max Ratio
TENDL Threshold 2.5766 MeV
JENDL4.0 Threshold 2.5766 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
JENDL4.0/TENDL
Ratio
1.2
1.6
2.0
2.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
18
50-Sn-122

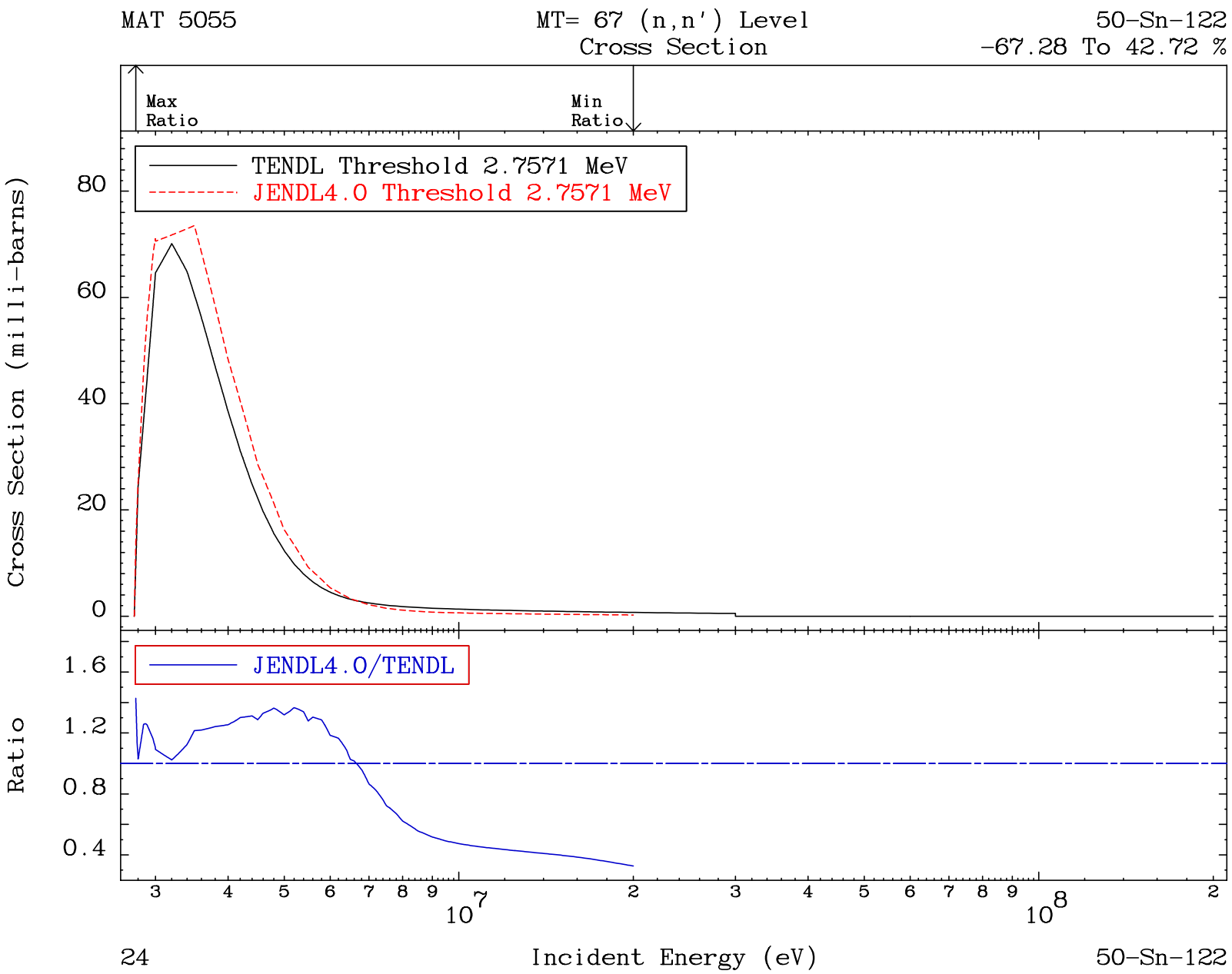

MAT 5055
MT= 62 (n,n') Level
Cross Section
50-Sn-122
-35.59 To 138.9 %
Min Ratio
Max Ratio
TENDL Threshold 2.6733 MeV
JENDL4.0 Threshold 2.6733 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
2.0
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
50-Sn-122

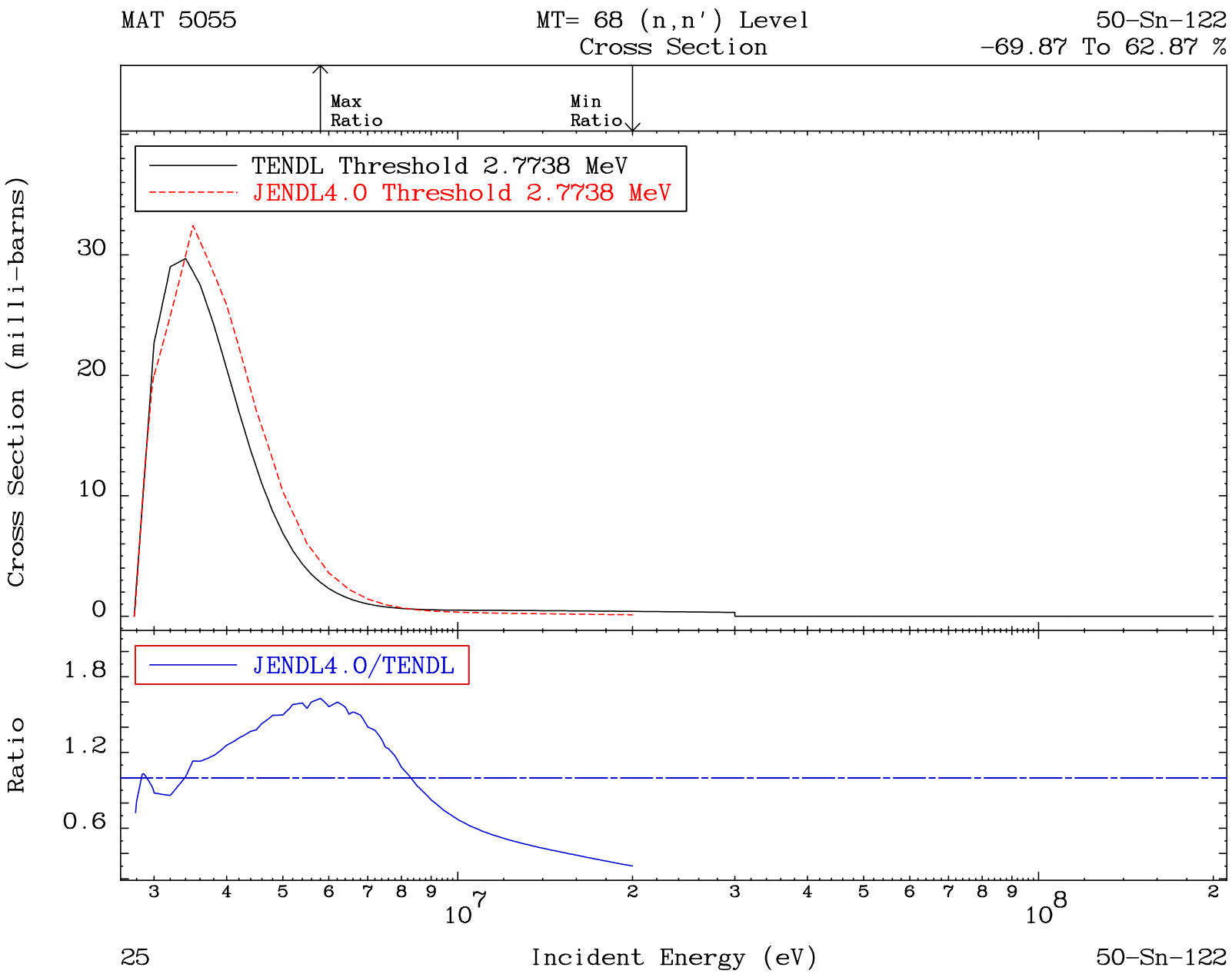

MAT 5055
MT= 63 (n,n') Level
Cross Section
50-Sn-122
-12.20 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6750 MeV
JENDL4.0 Threshold 2.6750 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
JENDL4.0/TENDL
Ratio
10^0
10^2
10^4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
20
50-Sn-122

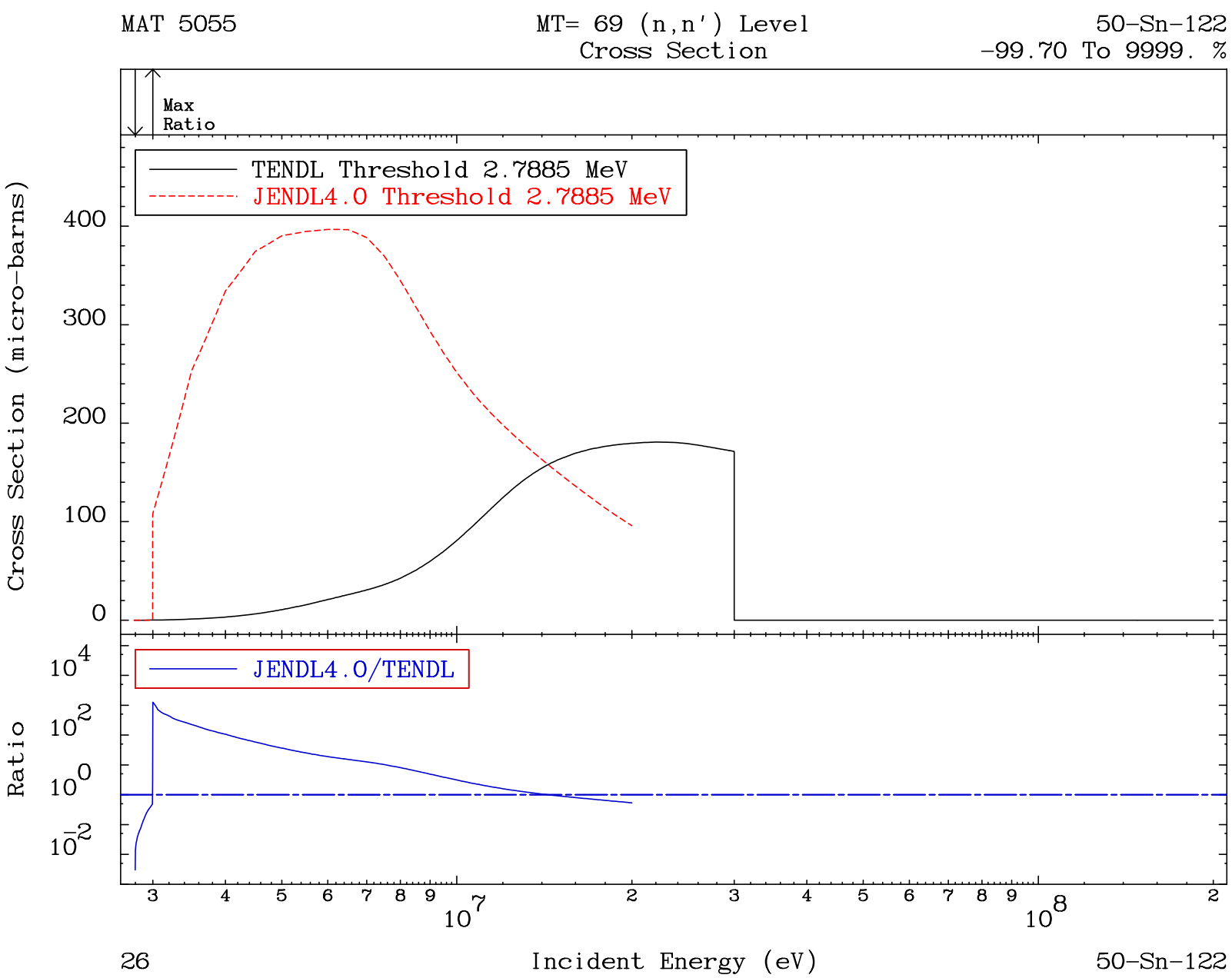

MAT 5055
MT= 64 (n,n') Level
Cross Section
50-Sn-122
-80.19 To 142.5 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.6790 MeV
JENDL4.0 Threshold 2.6790 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
4
2
10^0
6
4
2
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
21
Incident Energy (eV)
50-Sn-122

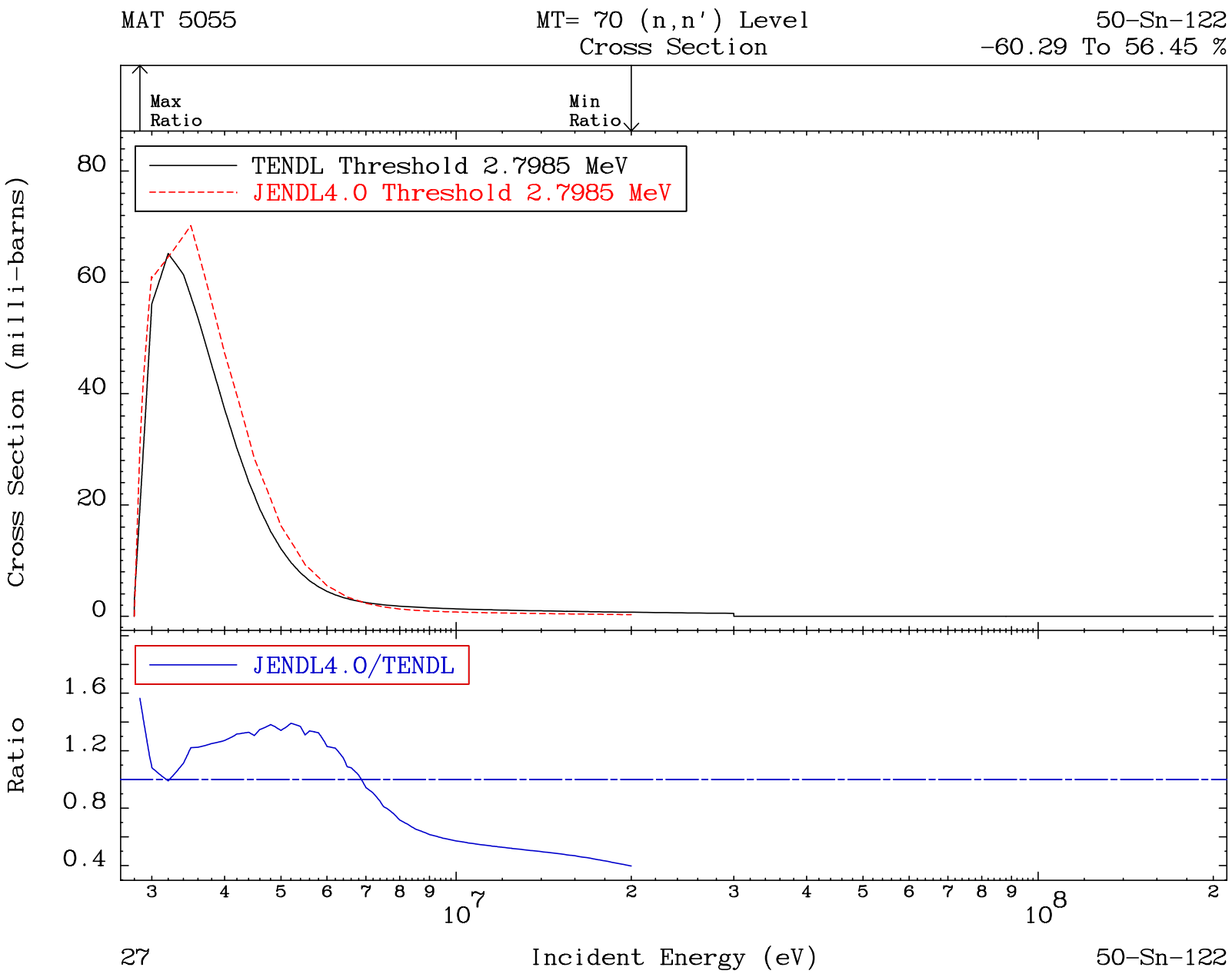

MAT 5055
MT= 65 (n,n') Level
Cross Section
50-Sn-122
6.848 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6977 MeV
JENDL4.0 Threshold 2.6977 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
22
Incident Energy (eV)
50-Sn-122

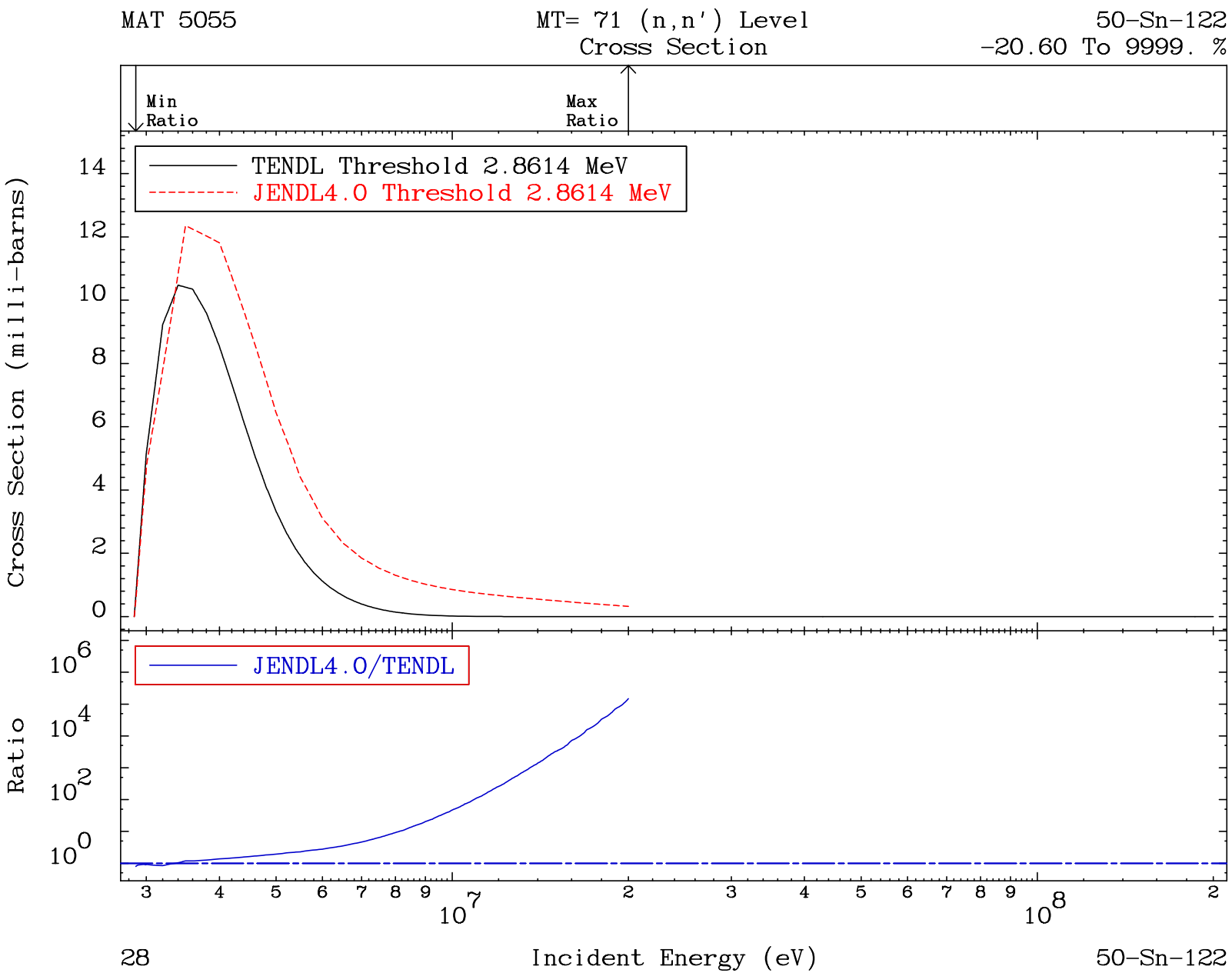

MAT 5055
MT= 66 (n,n') Level
Cross Section
50-Sn-122
-12.52 To 1039. %
Max
Ratio
Min
Ratio
TENDL Threshold 2.7123 MeV
JENDL4.0 Threshold 2.7123 MeV
Cross Section (milli-barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^1
10^0
2
6
4
2
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
23
Incident Energy (eV)
50-Sn-122

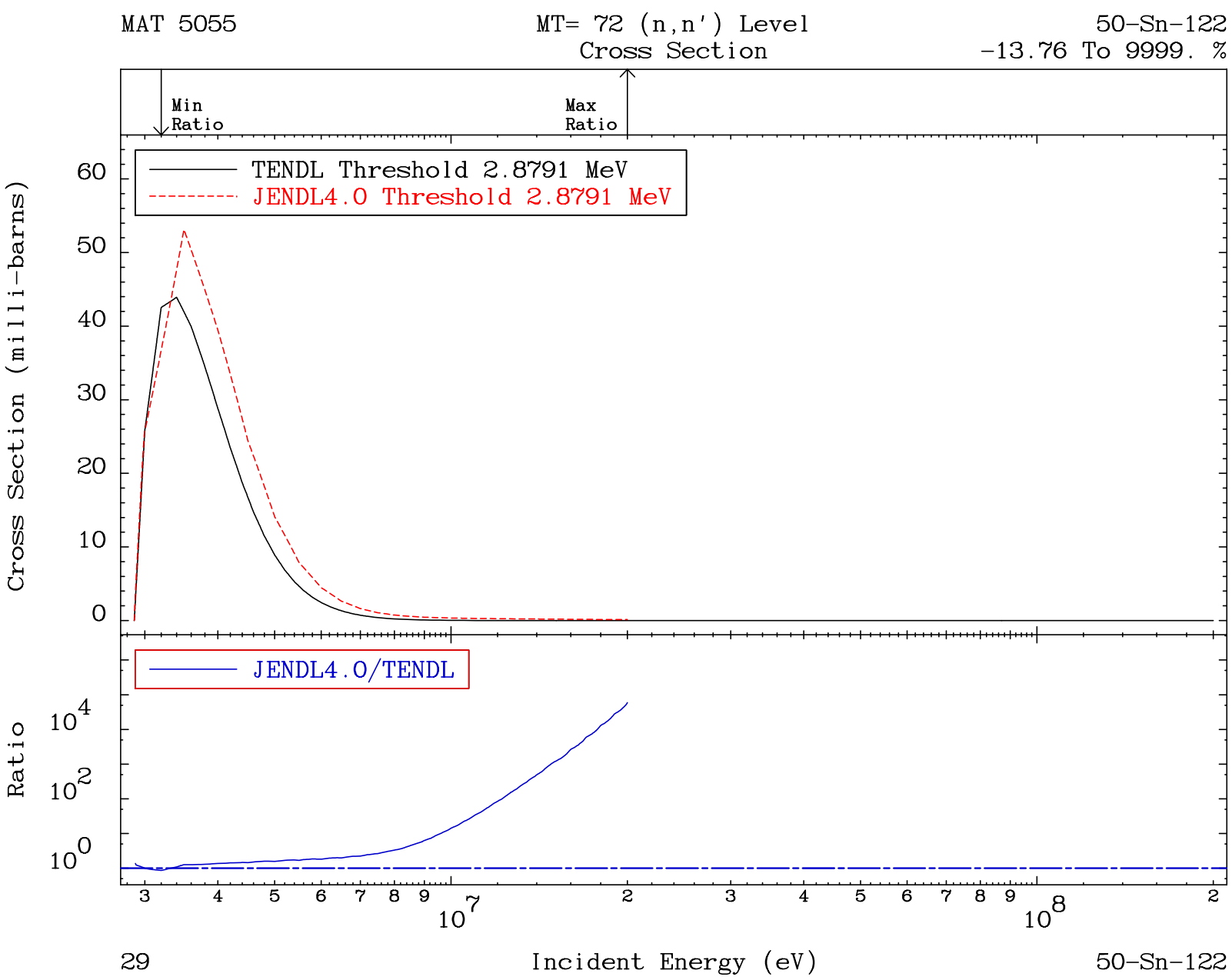

MAT 5055
MT= 67 (n,n') Level
Cross Section
50-Sn-122
-67.28 To 42.72 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.7571 MeV
JENDL4.0 Threshold 2.7571 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
50-Sn-122

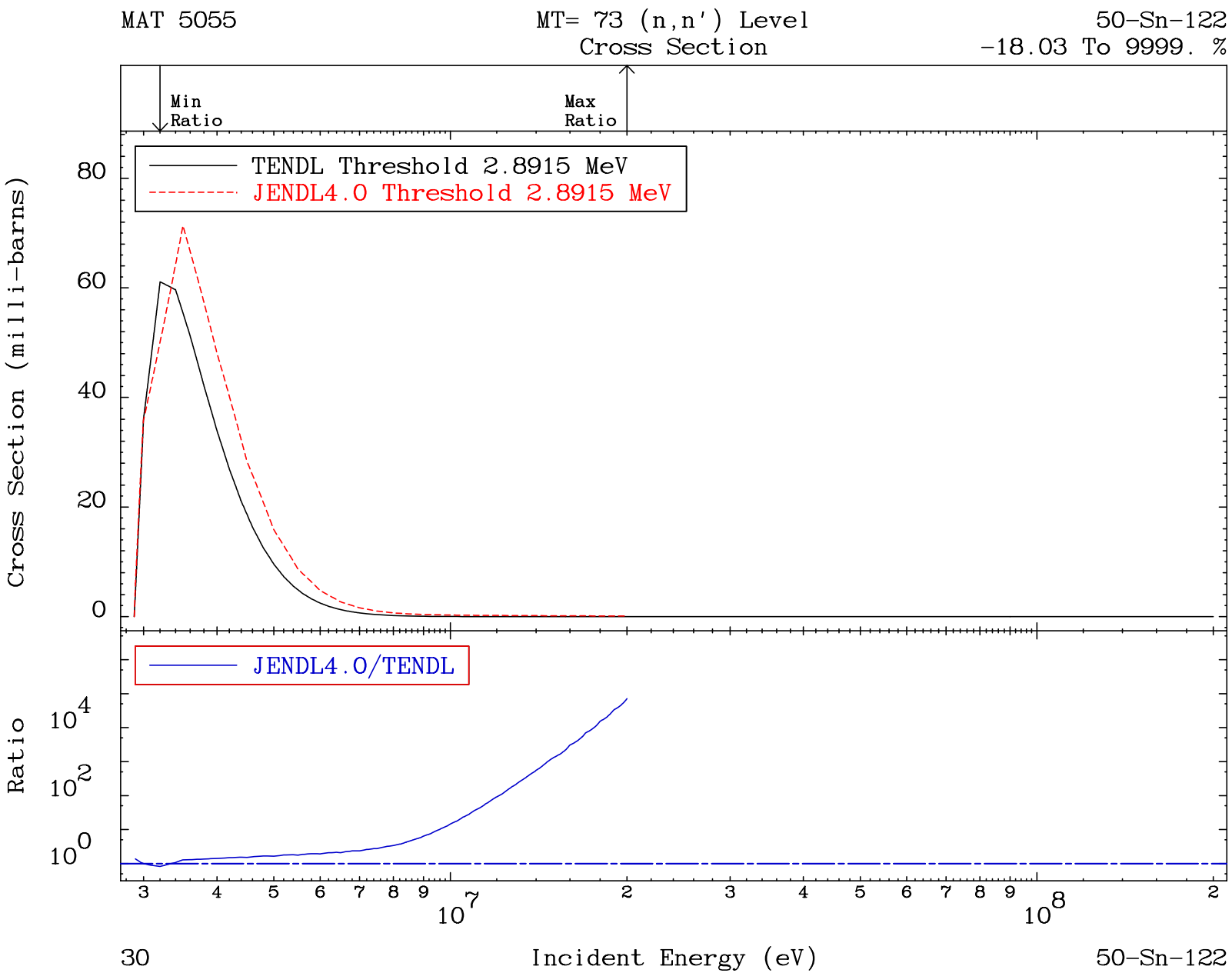

MAT 5055
MT= 68 (n,n') Level
Cross Section
50-Sn-122
-69.87 To 62.87 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.7738 MeV
JENDL4.0 Threshold 2.7738 MeV
Cross Section (milli-barns)
30
20
10
0
JENDL4.0/TENDL
Ratio
1.8
1.2
0.6
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
25
Incident Energy (eV)
50-Sn-122

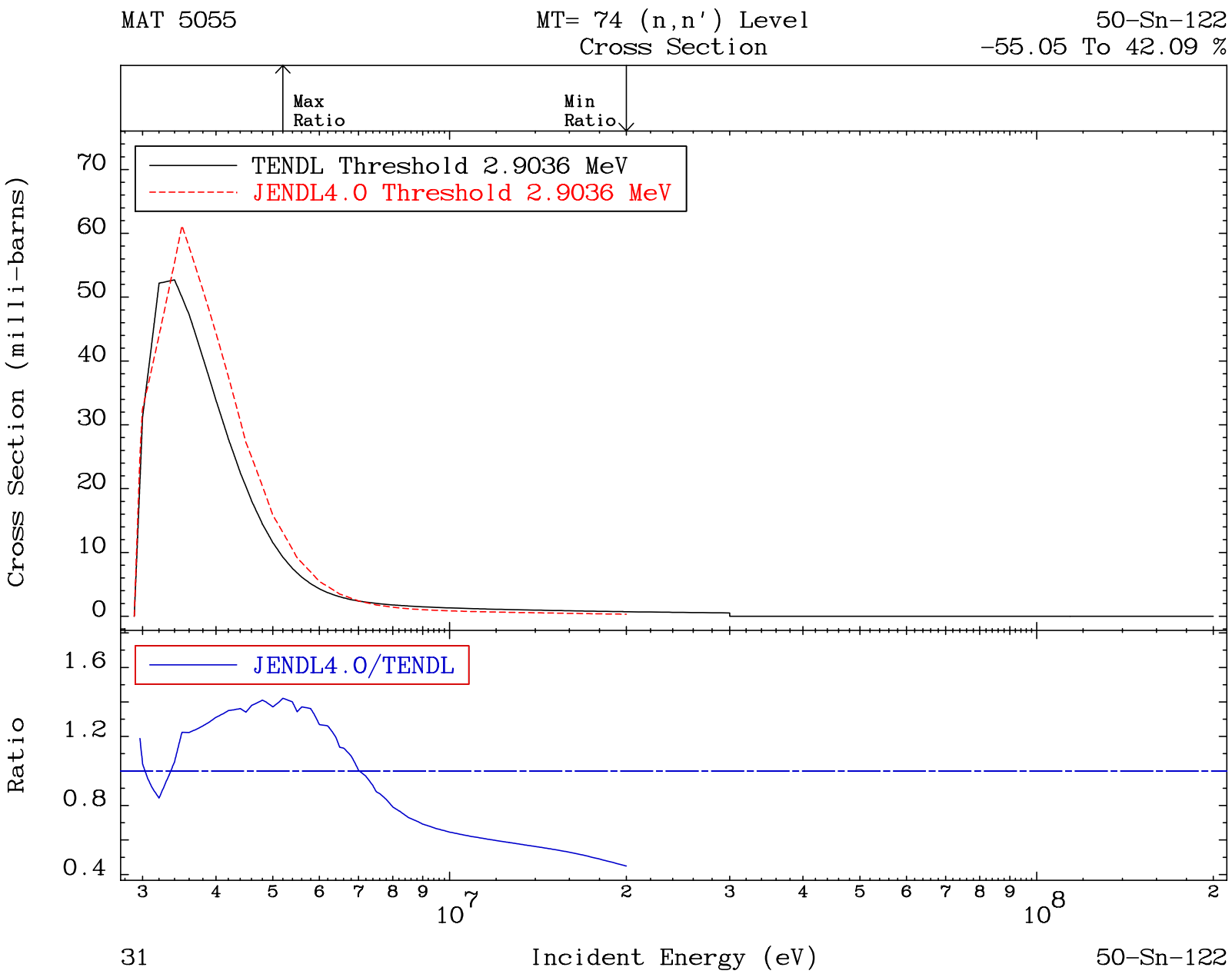

MAT 5055
MT= 69 (n,n') Level
Cross Section
50-Sn-122
-99.70 To 9999. %
Max
Ratio
TENDL Threshold 2.7885 MeV
JENDL4.0 Threshold 2.7885 MeV
Cross Section (micro-barns)
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
50-Sn-122

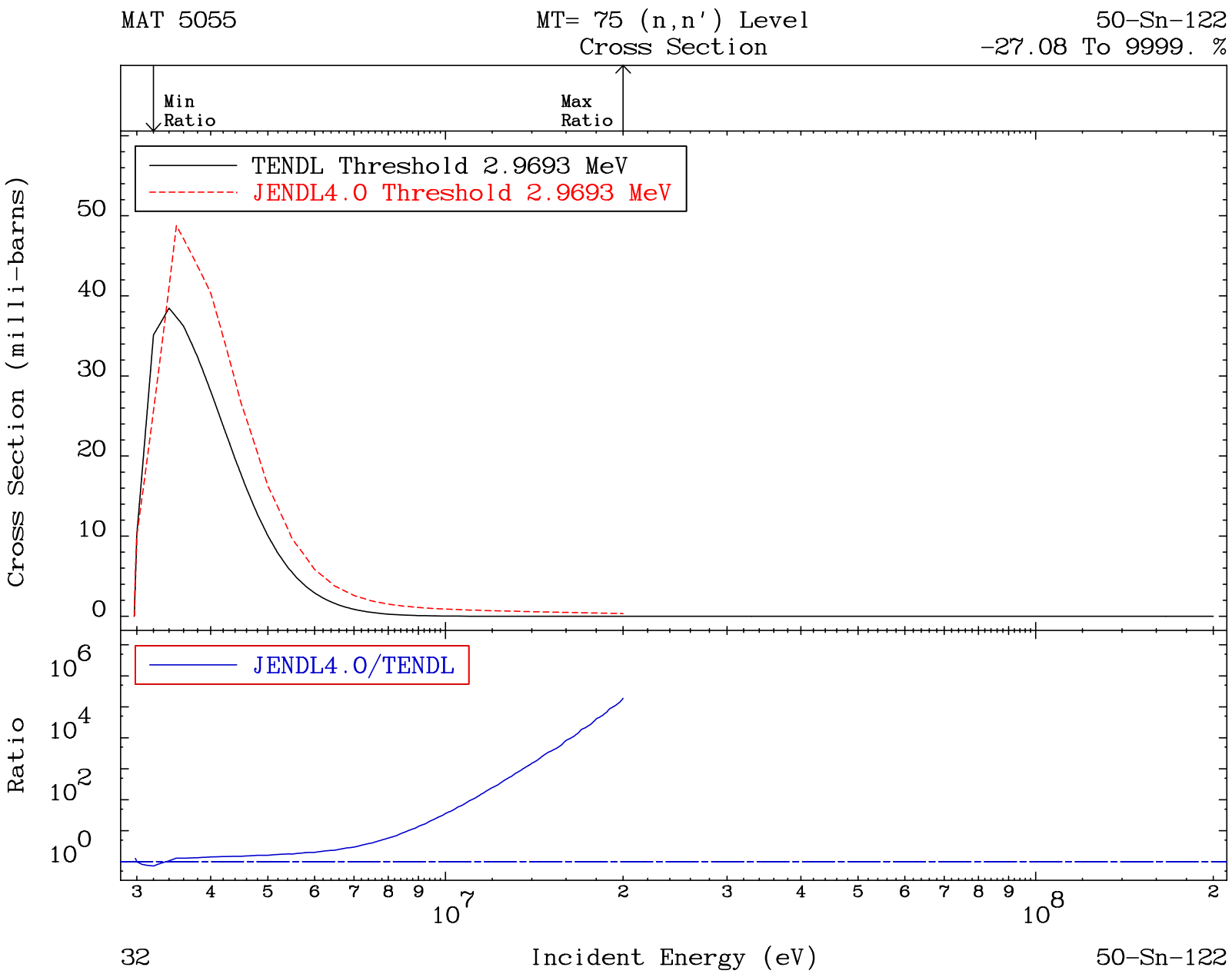

MAT 5055
MT= 70 (n,n') Level
Cross Section
50-Sn-122
-60.29 To 56.45 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.7985 MeV
JENDL4.0 Threshold 2.7985 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
27
Incident Energy (eV)
50-Sn-122

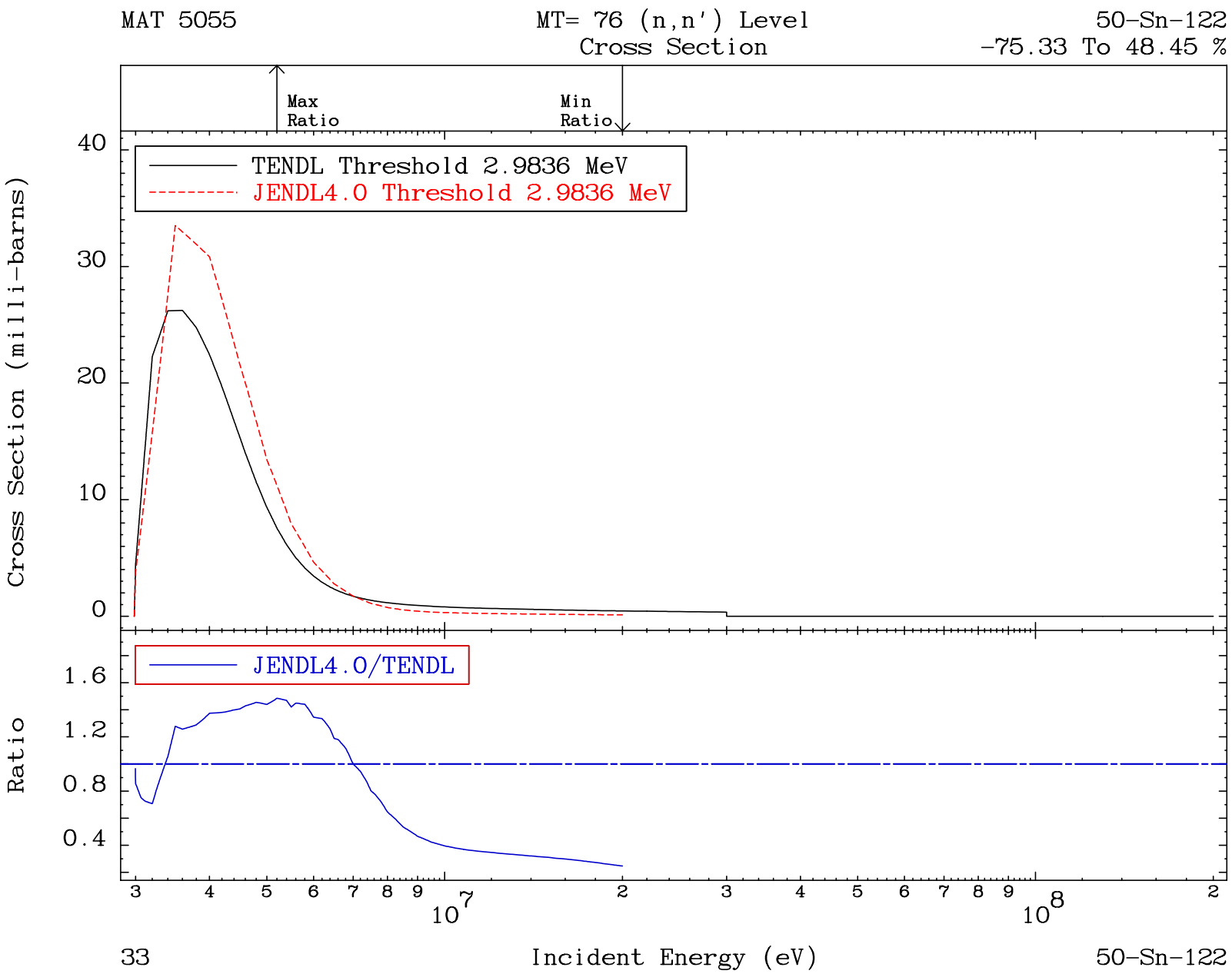

MAT 5055
MT= 71 (n,n') Level
Cross Section
50-Sn-122
-20.60 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8614 MeV
JENDL4.0 Threshold 2.8614 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
28
Incident Energy (eV)
50-Sn-122

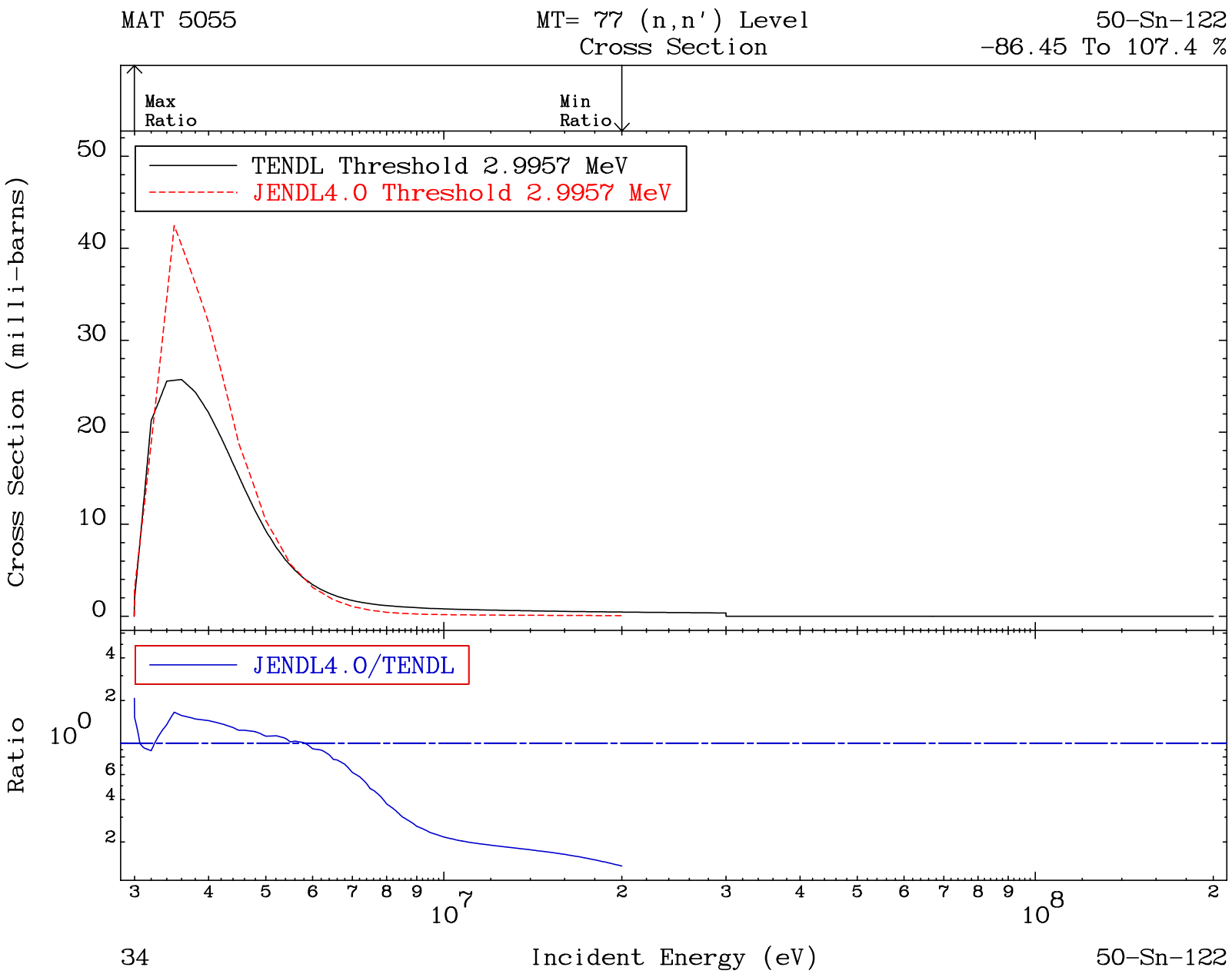

MAT 5055
MT= 72 (n,n') Level
Cross Section
50-Sn-122
-13.76 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8791 MeV
JENDL4.0 Threshold 2.8791 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
29
Incident Energy (eV)
50-Sn-122

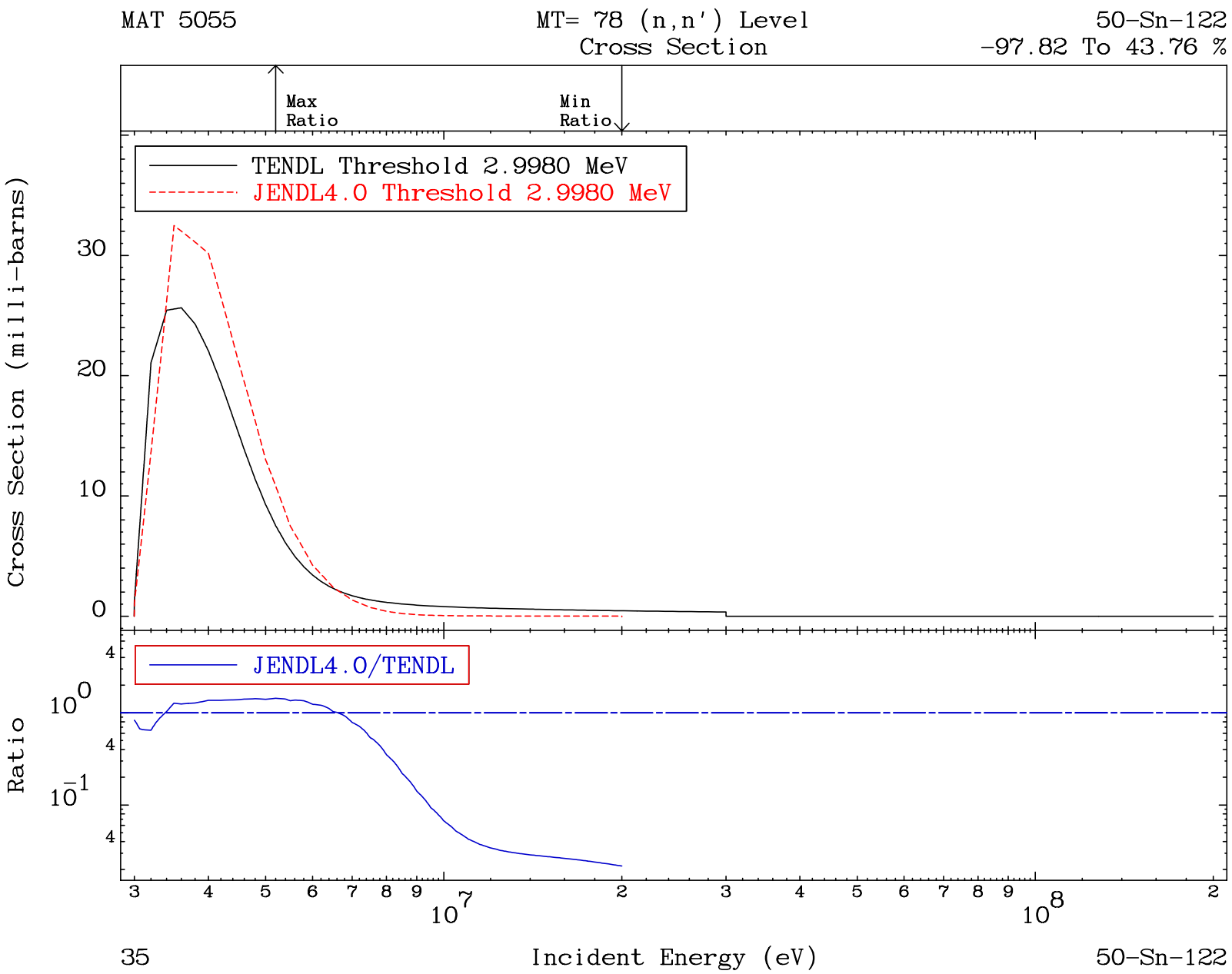

MAT 5055
MT= 73 (n,n') Level
Cross Section
50-Sn-122
-18.03 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8915 MeV
JENDL4.0 Threshold 2.8915 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
30
Incident Energy (eV)
50-Sn-122

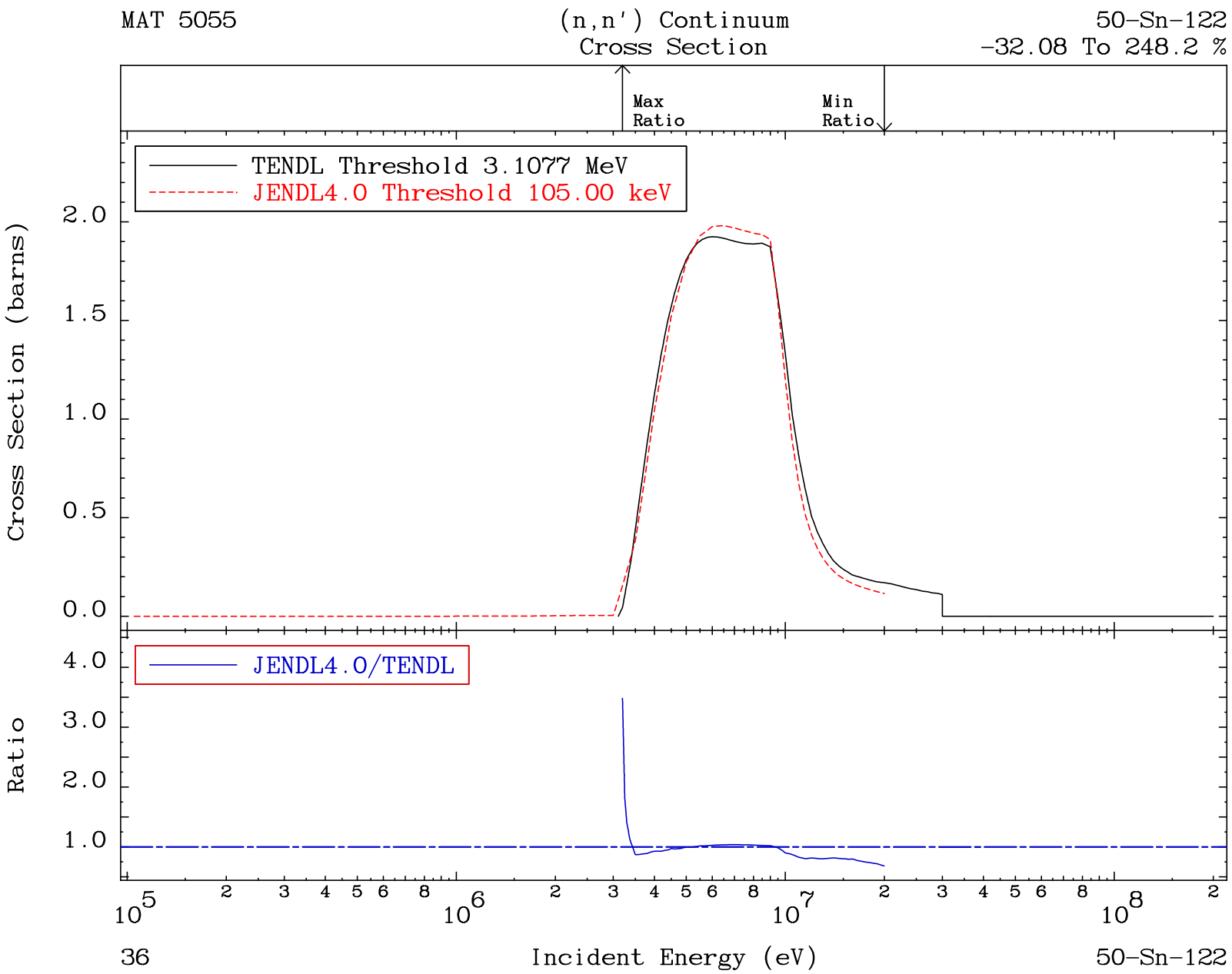

MAT 5055
MT= 74 (n,n') Level
Cross Section
50-Sn-122
-55.05 To 42.09 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.9036 MeV
JENDL4.0 Threshold 2.9036 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
31
Incident Energy (eV)
50-Sn-122

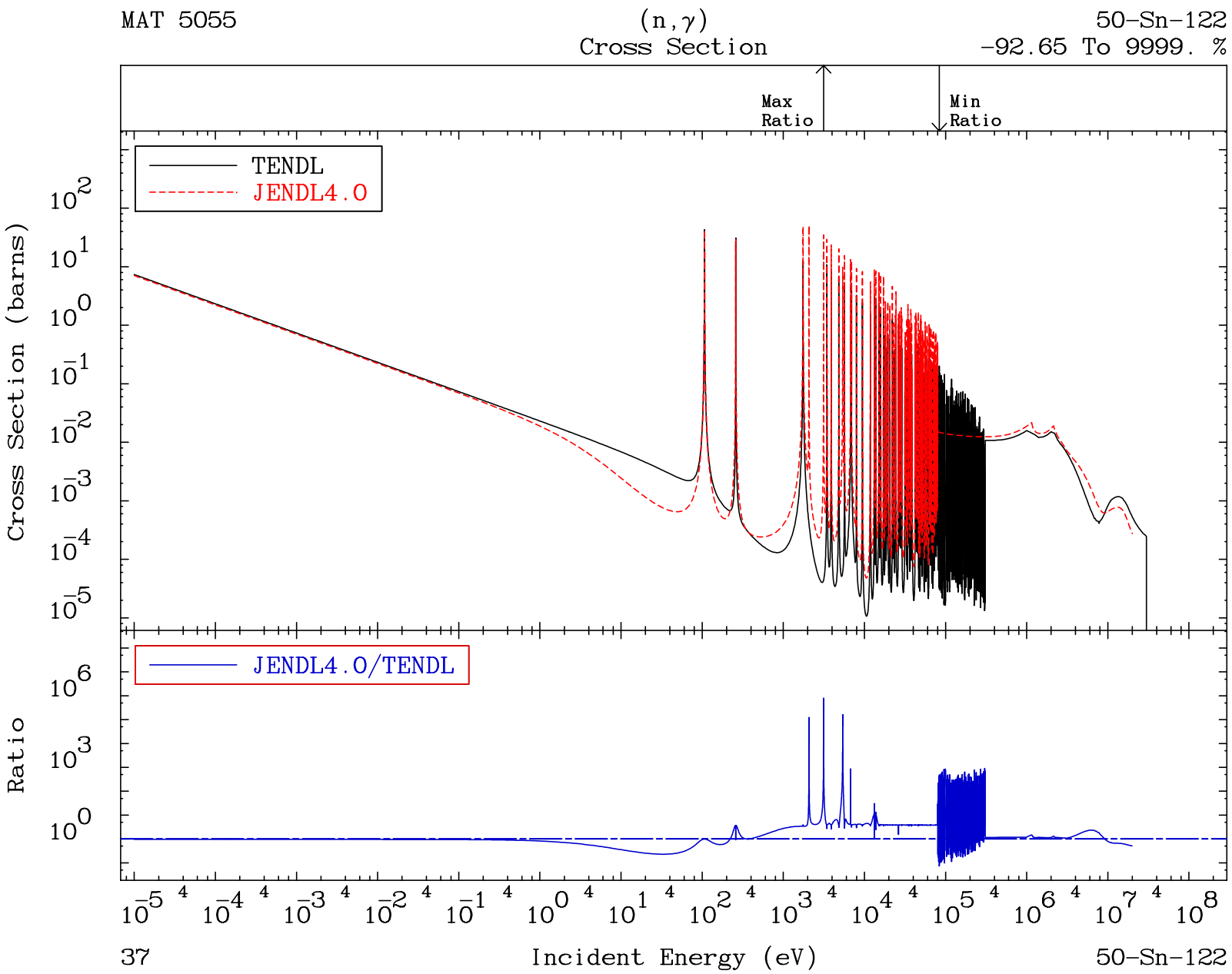

MAT 5055
MT= 75 (n,n') Level
Cross Section
50-Sn-122
-27.08 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.9693 MeV
JENDL4.0 Threshold 2.9693 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
32
Incident Energy (eV)
50-Sn-122

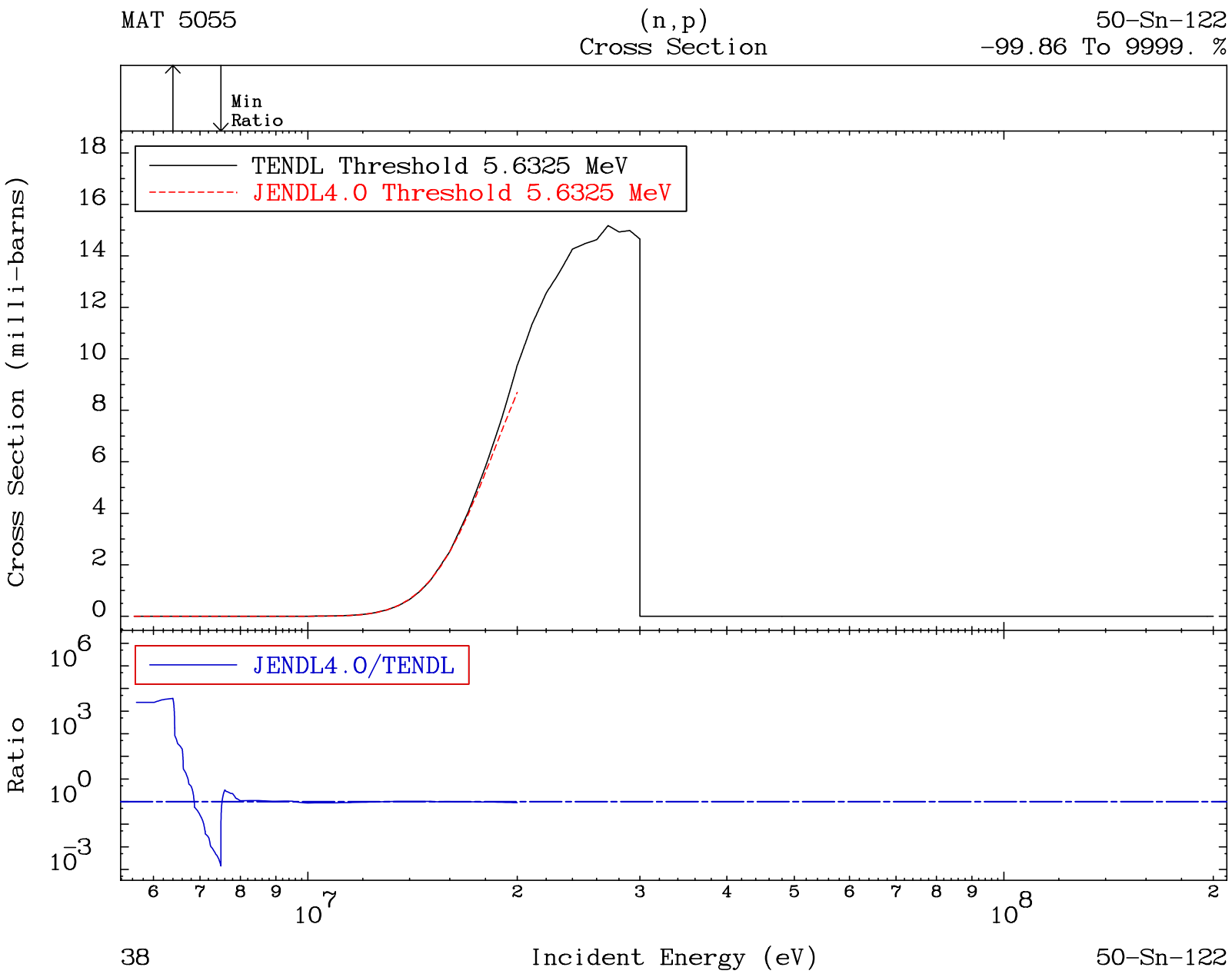

MAT 5055
MT= 76 (n,n') Level
Cross Section
50-Sn-122
-75.33 To 48.45 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.9836 MeV
JENDL4.0 Threshold 2.9836 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
33
Incident Energy (eV)
50-Sn-122

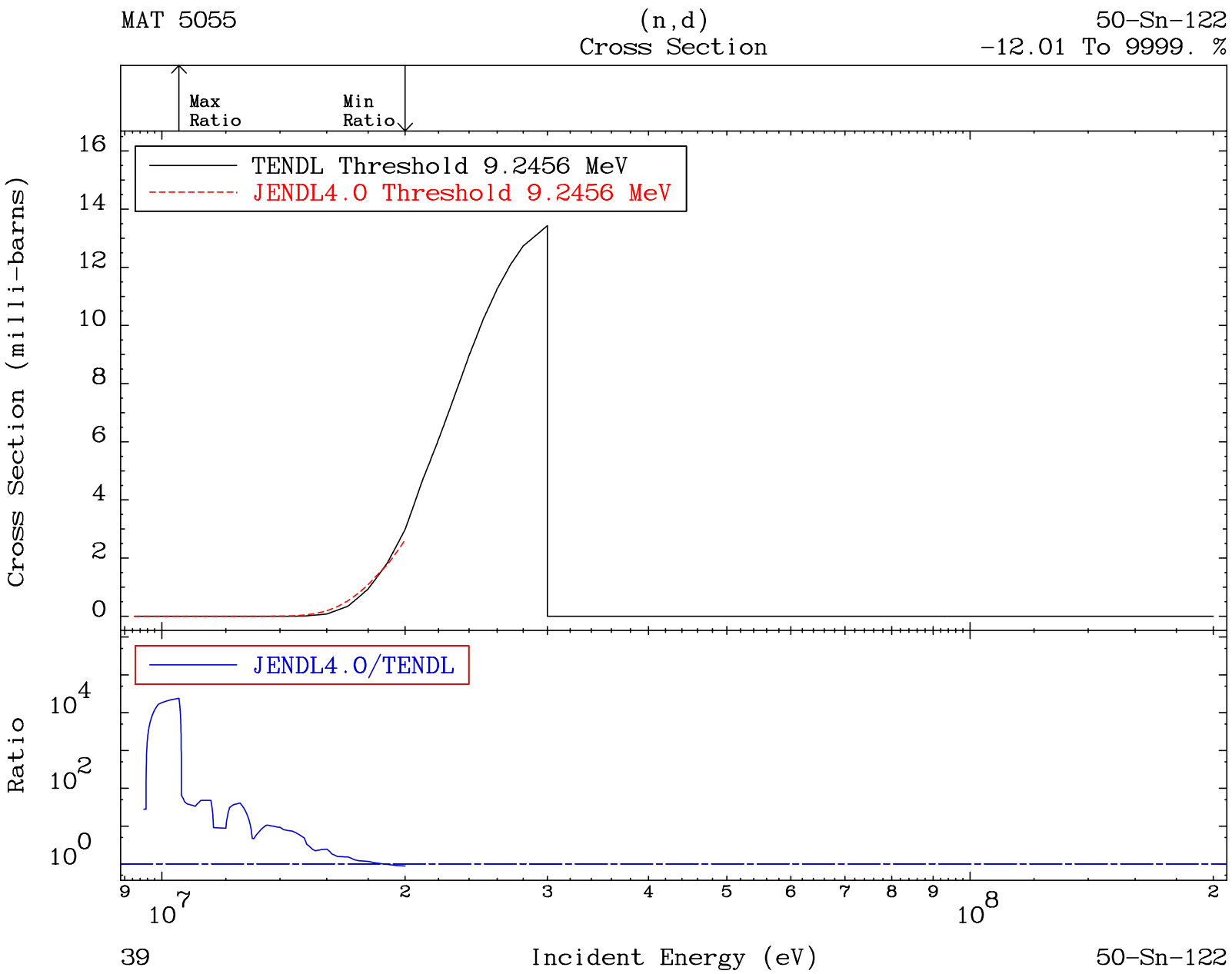

MAT 5055
MT= 77 (n,n') Level
Cross Section
50-Sn-122
-86.45 To 107.4 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.9957 MeV
JENDL4.0 Threshold 2.9957 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
4
2
10^0
6
4
2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
34
Incident Energy (eV)
50-Sn-122

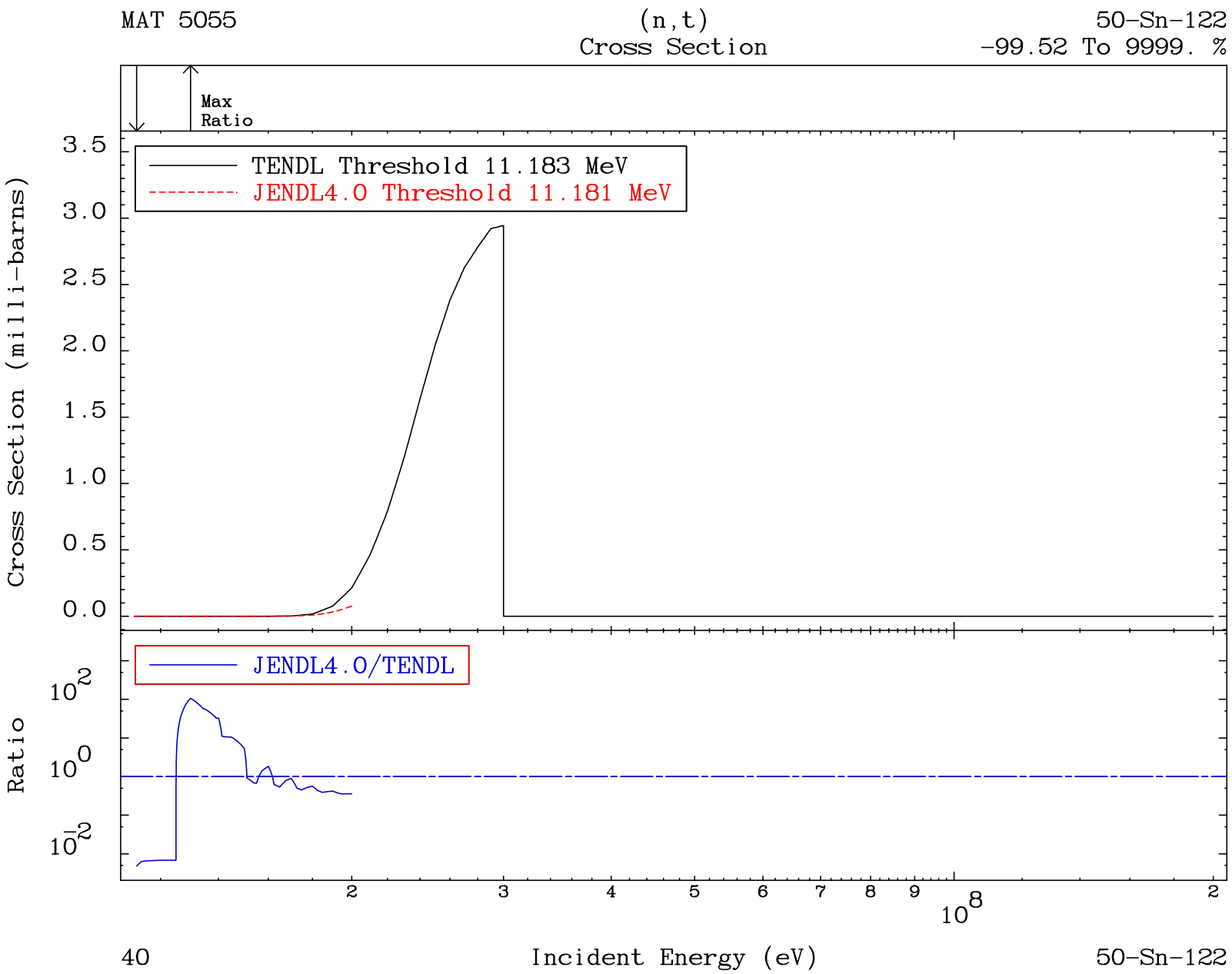

MAT 5055
MT= 78 (n,n') Level
Cross Section
50-Sn-122
-97.82 To 43.76 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.9980 MeV
JENDL4.0 Threshold 2.9980 MeV
Cross Section (milli-barns)
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
4
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
35
Incident Energy (eV)
50-Sn-122

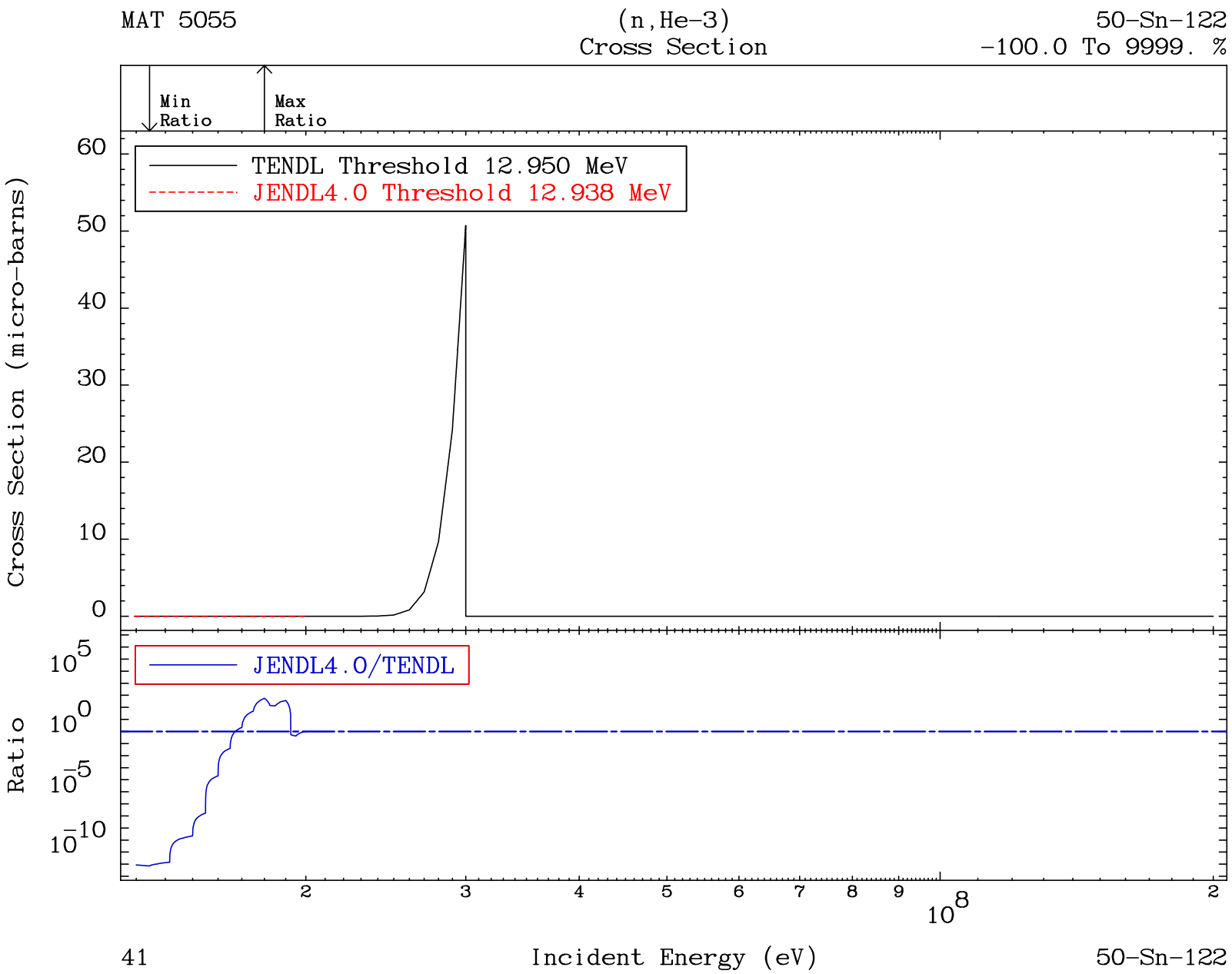

MAT 5055
(n,n') Continuum
Cross Section
50-Sn-122
-32.08 To 248.2 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.1077 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
4.0
3.0
2.0
1.0
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
36
Incident Energy (eV)
50-Sn-122

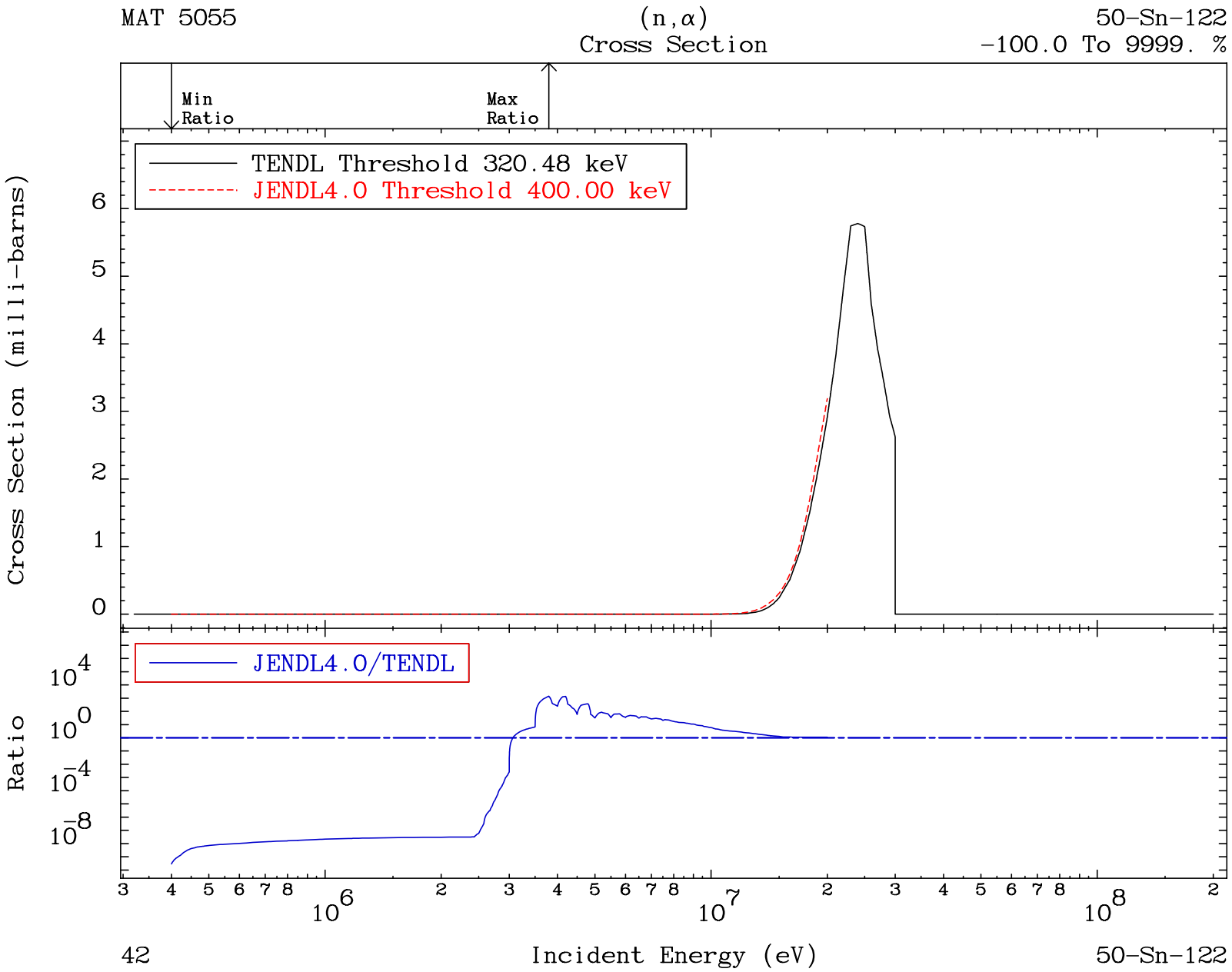

MAT 5055
(n,γ)
Cross Section
50-Sn-122
-92.65 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
37
50-Sn-122

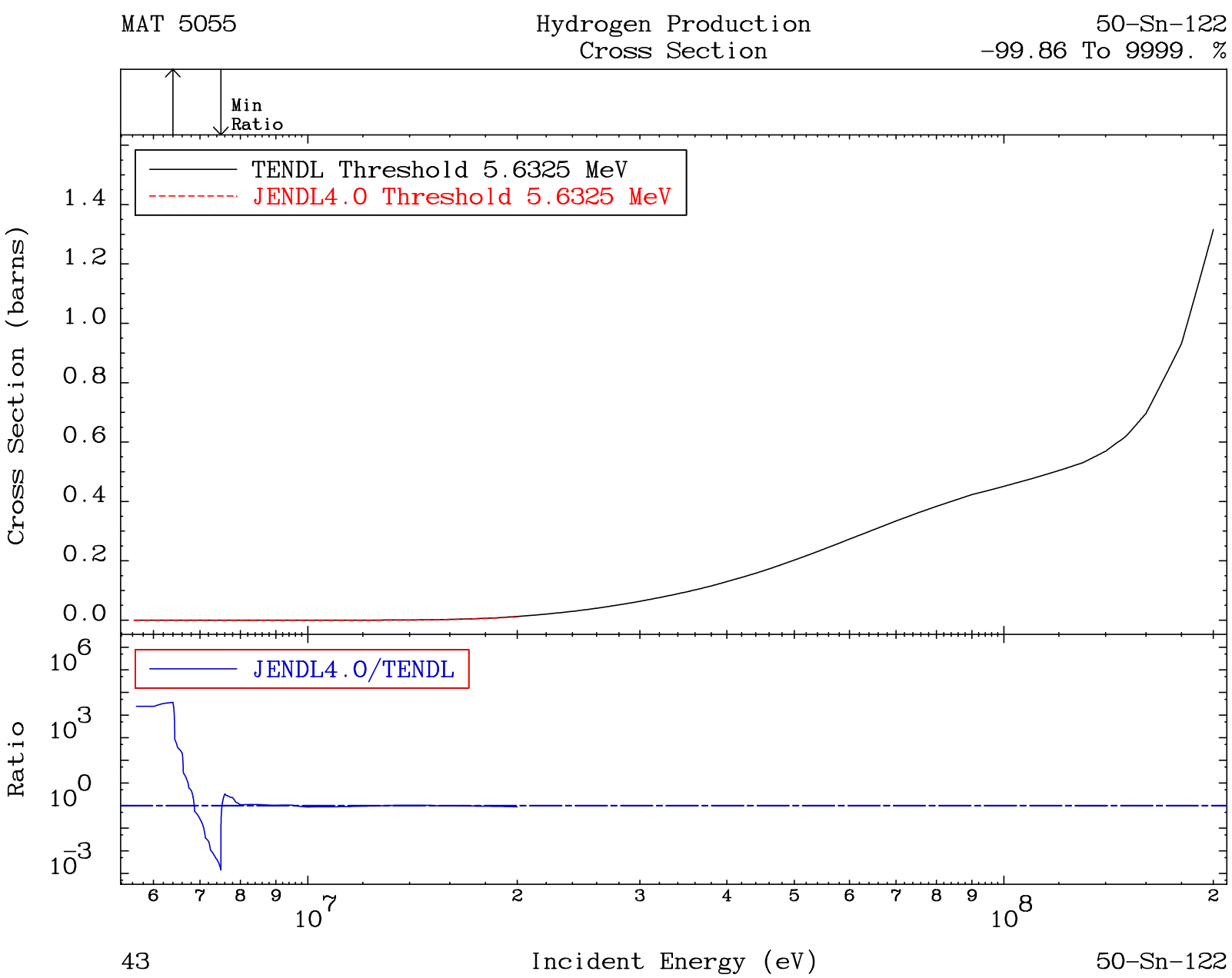

MAT 5055
(n,p)
Cross Section
50-Sn-122
-99.86 To 9999. %
Min
Ratio
TENDL Threshold 5.6325 MeV
JENDL4.0 Threshold 5.6325 MeV
Cross Section (milli-barns)
18
16
14
12
10
8
6
4
2
0
JENDL4.0/TENDL
Ratio
10^6
10^3
10^0
10^-3
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
50-Sn-122

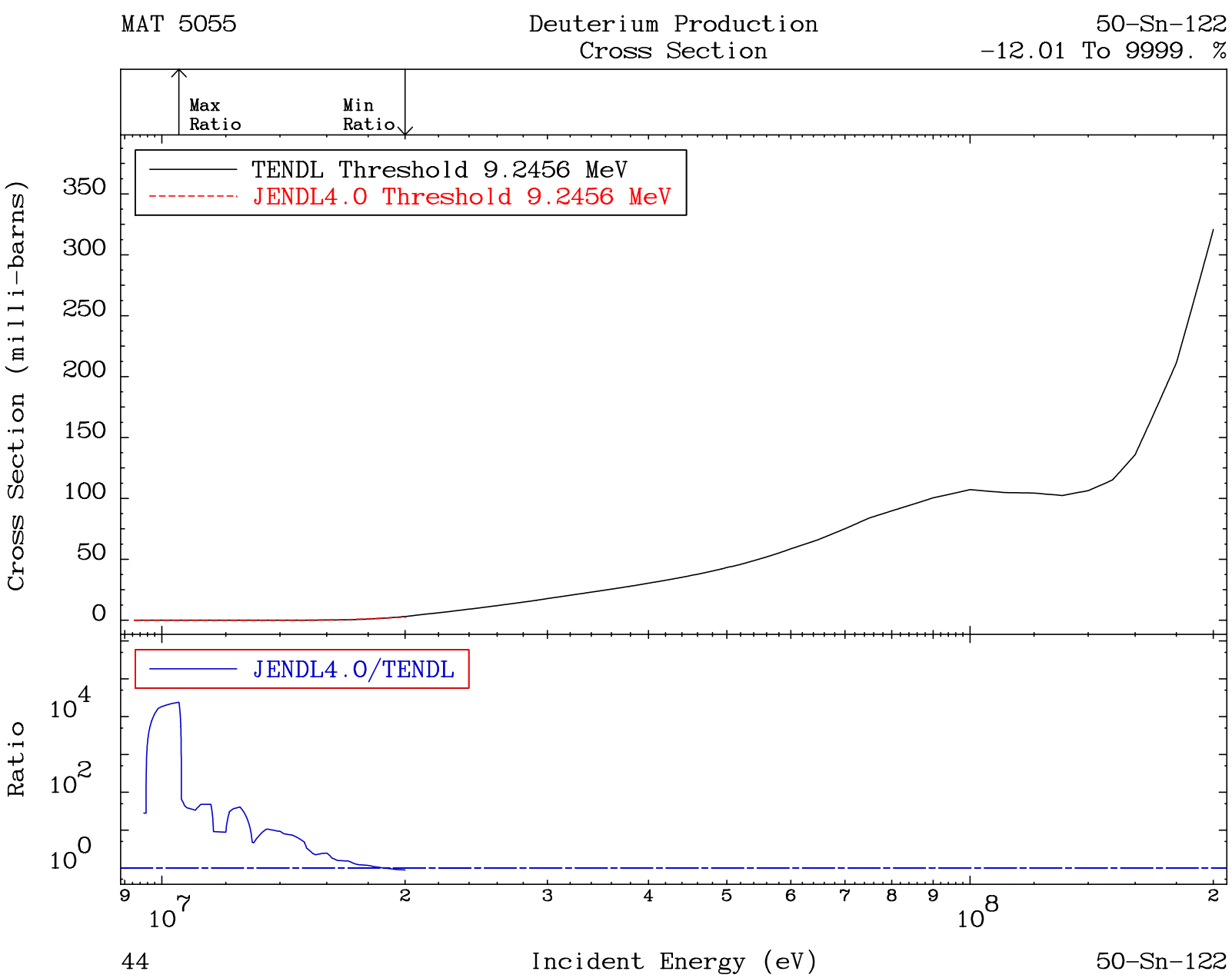

MAT 5055
(n,d)
Cross Section
50-Sn-122
-12.01 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.2456 MeV
JENDL4.0 Threshold 9.2456 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
39
50-Sn-122

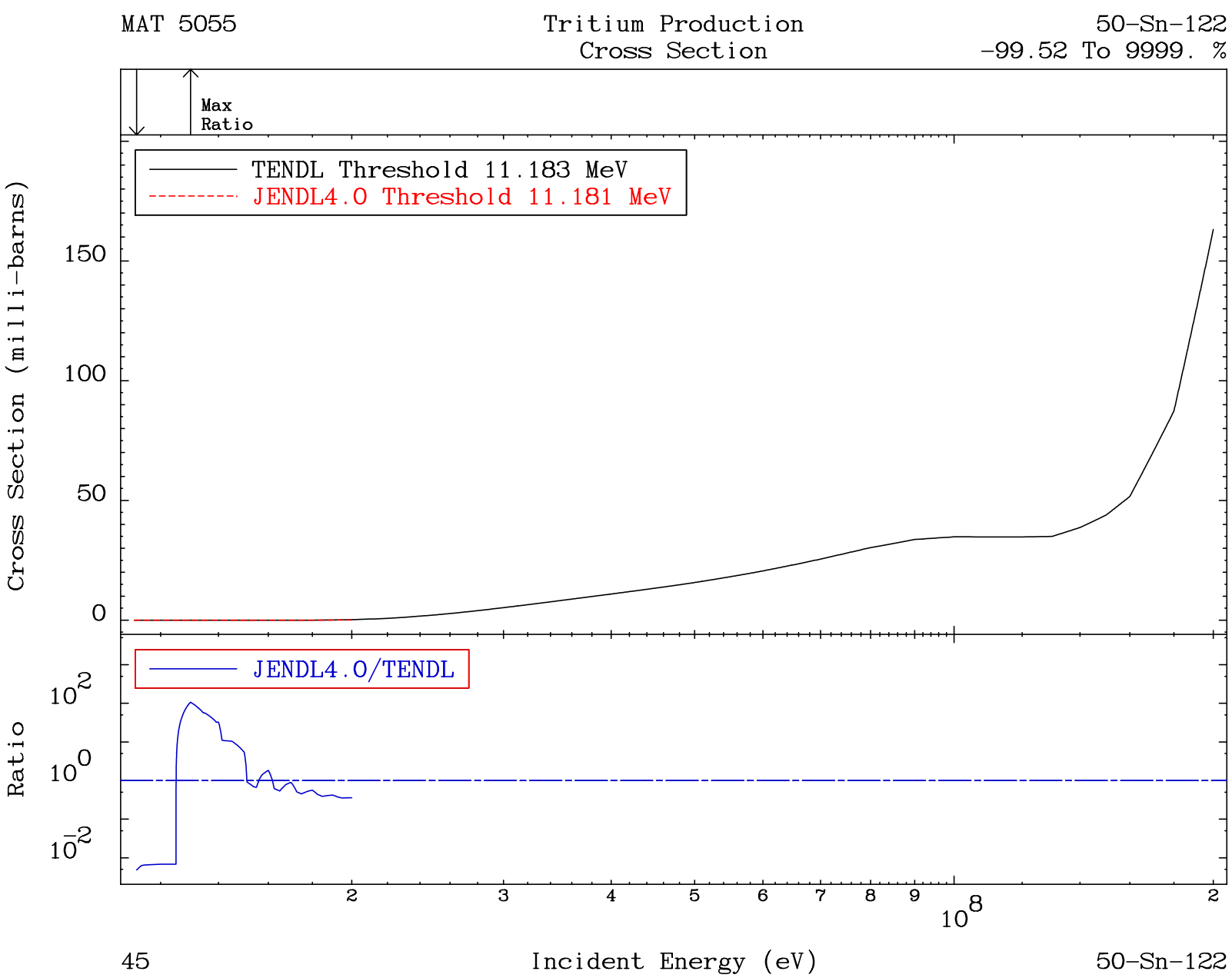

MAT 5055
(n,t)
Cross Section
50-Sn-122
-99.52 To 9999. %
Max
Ratio
TENDL Threshold 11.183 MeV
JENDL4.0 Threshold 11.181 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
40
Incident Energy (eV)
50-Sn-122

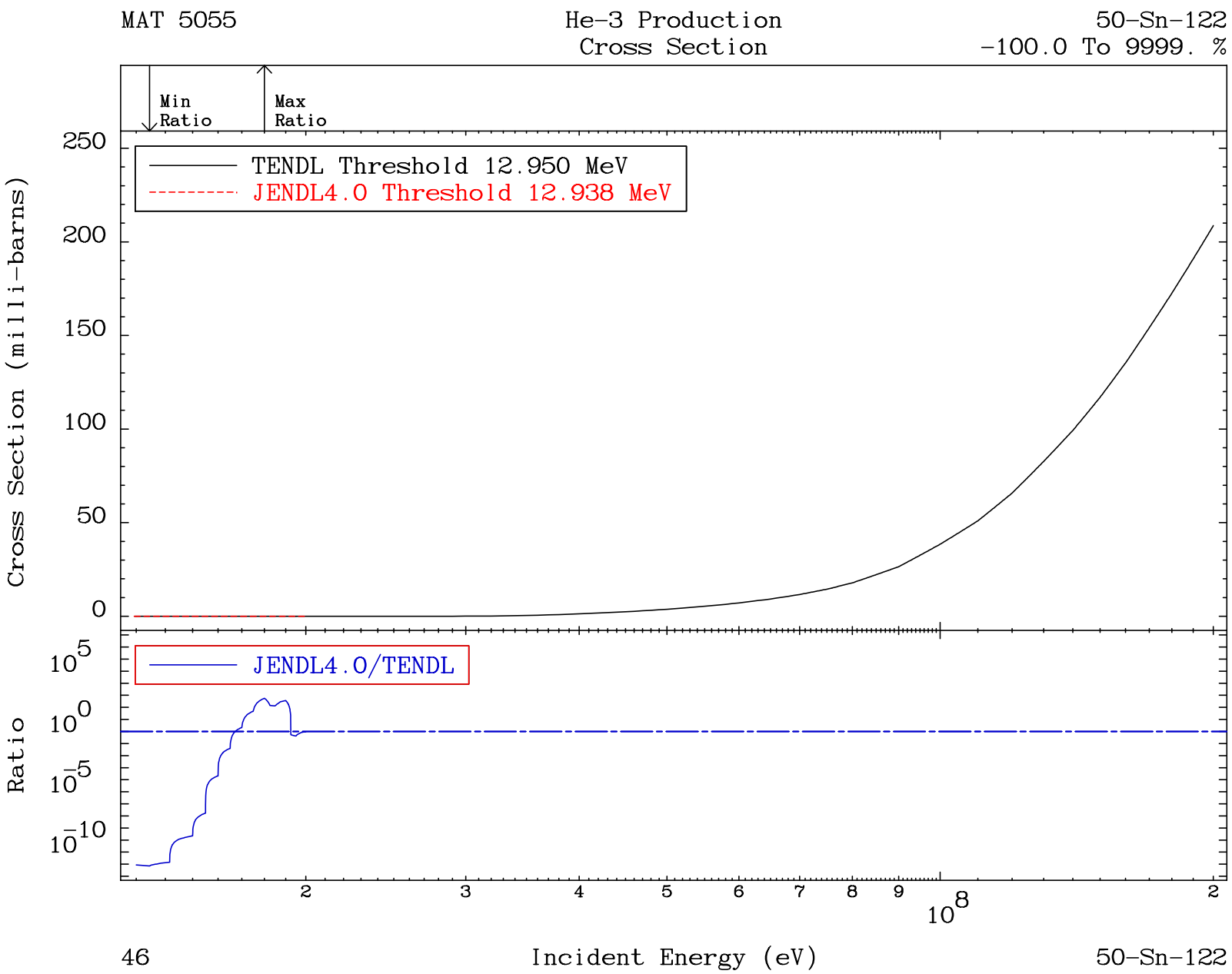

MAT 5055
(n,He-3)
Cross Section
50-Sn-122
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 12.950 MeV
JENDL4.0 Threshold 12.938 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^5
10^0
10^-5
10^-10
2
3
4
5
6
7
8
9
10^8
2
41
Incident Energy (eV)
50-Sn-122

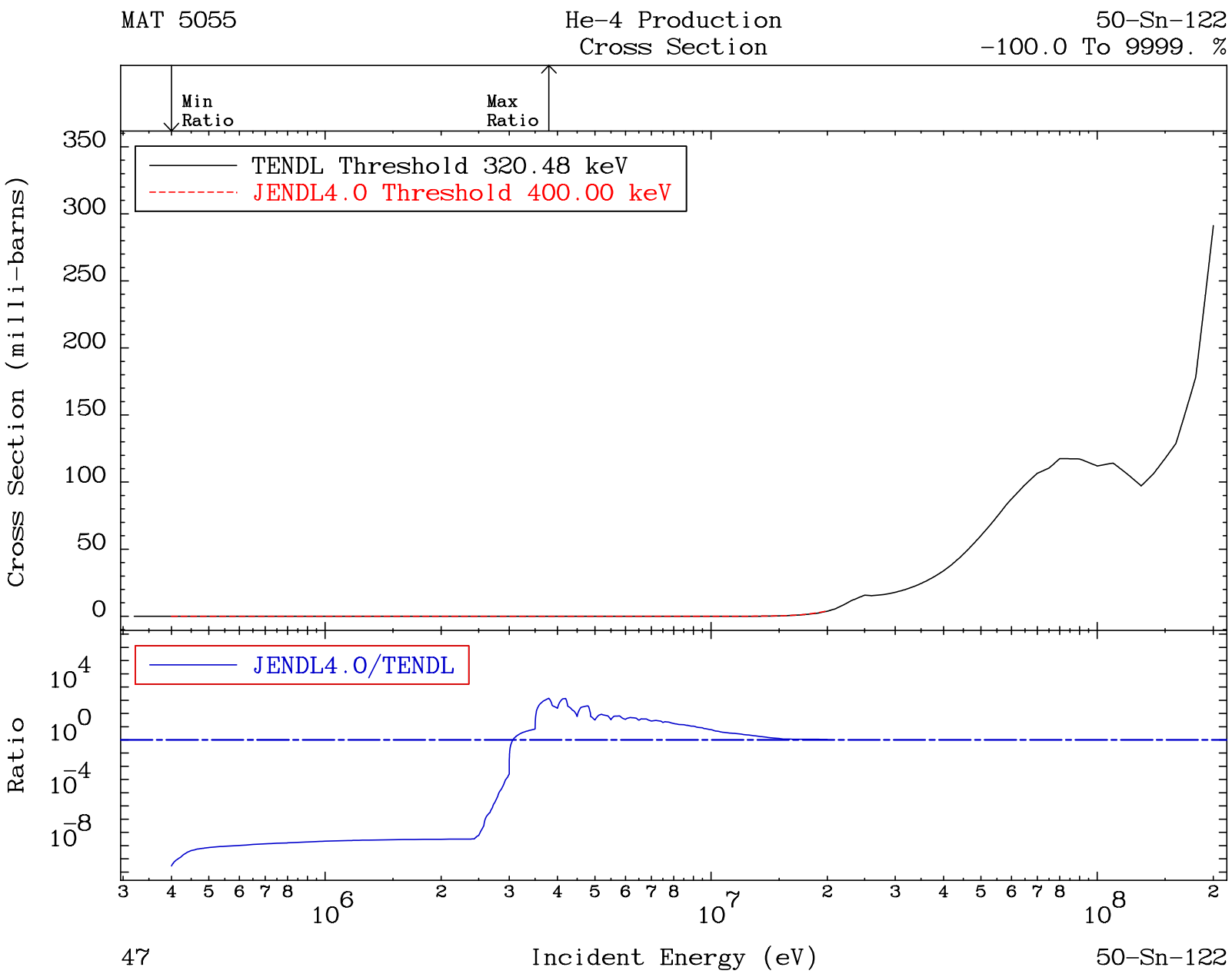

MAT 5055
(n,α)
Cross Section
50-Sn-122
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 320.48 keV
JENDL4.0 Threshold 400.00 keV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JENDL4.0/TENDL
Ratio
10^4
10^0
10^-4
10^-8
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
42
Incident Energy (eV)
50-Sn-122

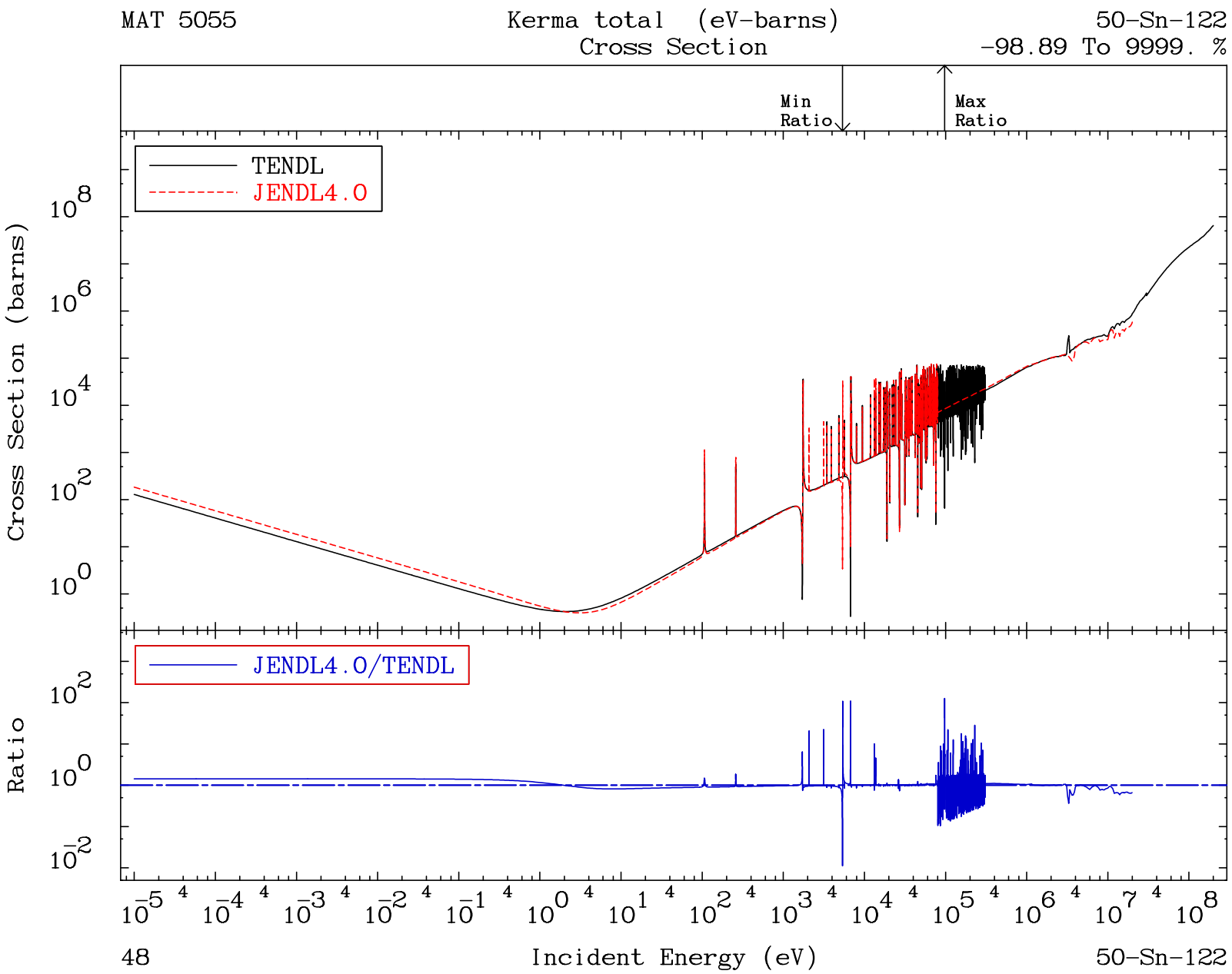

MAT 5055
Hydrogen Production
Cross Section
50-Sn-122
-99.86 To 9999. %
Min
Ratio
TENDL Threshold 5.6325 MeV
JENDL4.0 Threshold 5.6325 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^6
10^3
10^0
10^-3
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
50-Sn-122

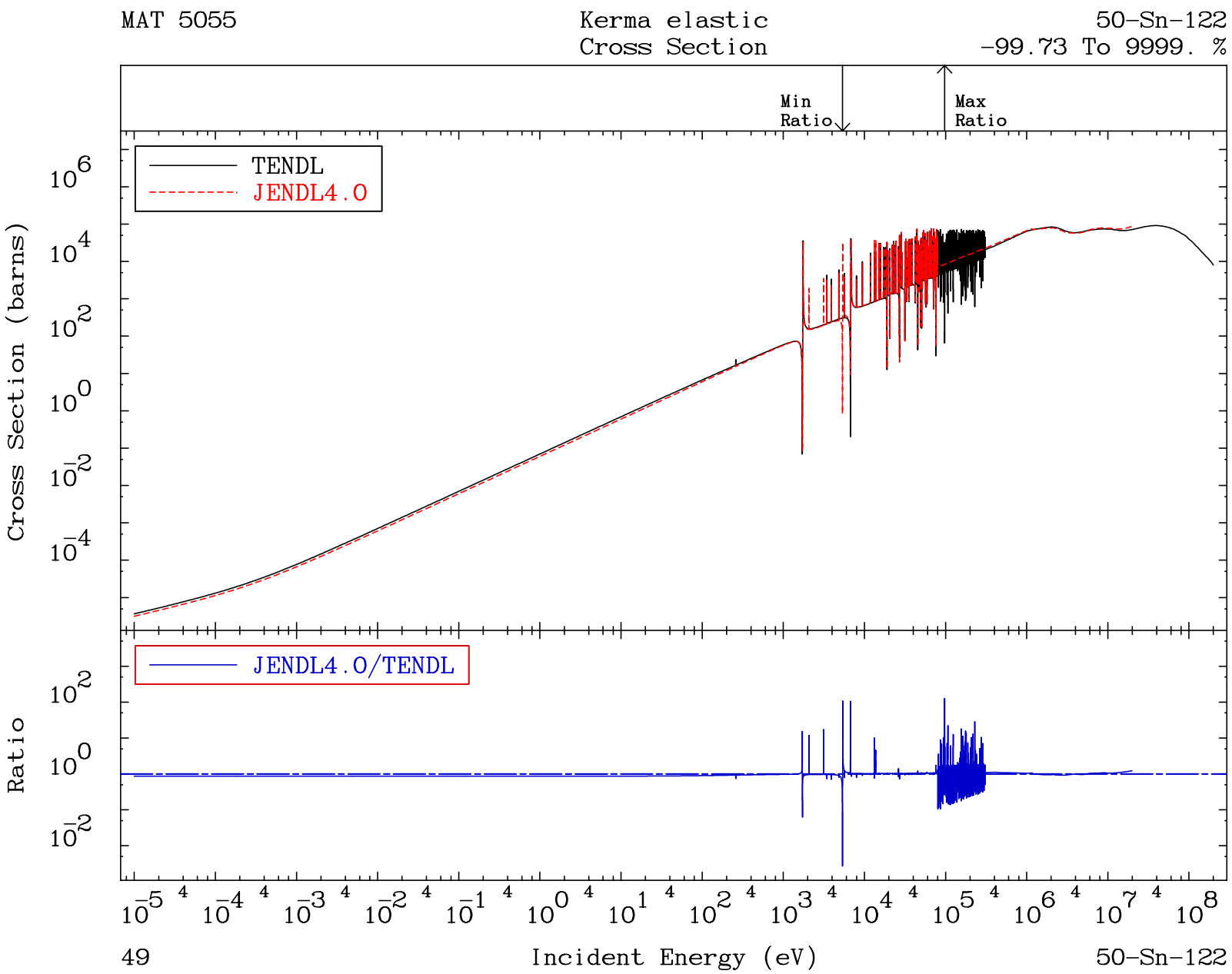

MAT 5055
Deuterium Production
Cross Section
50-Sn-122
-12.01 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.2456 MeV
JENDL4.0 Threshold 9.2456 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
44
Incident Energy (eV)
50-Sn-122

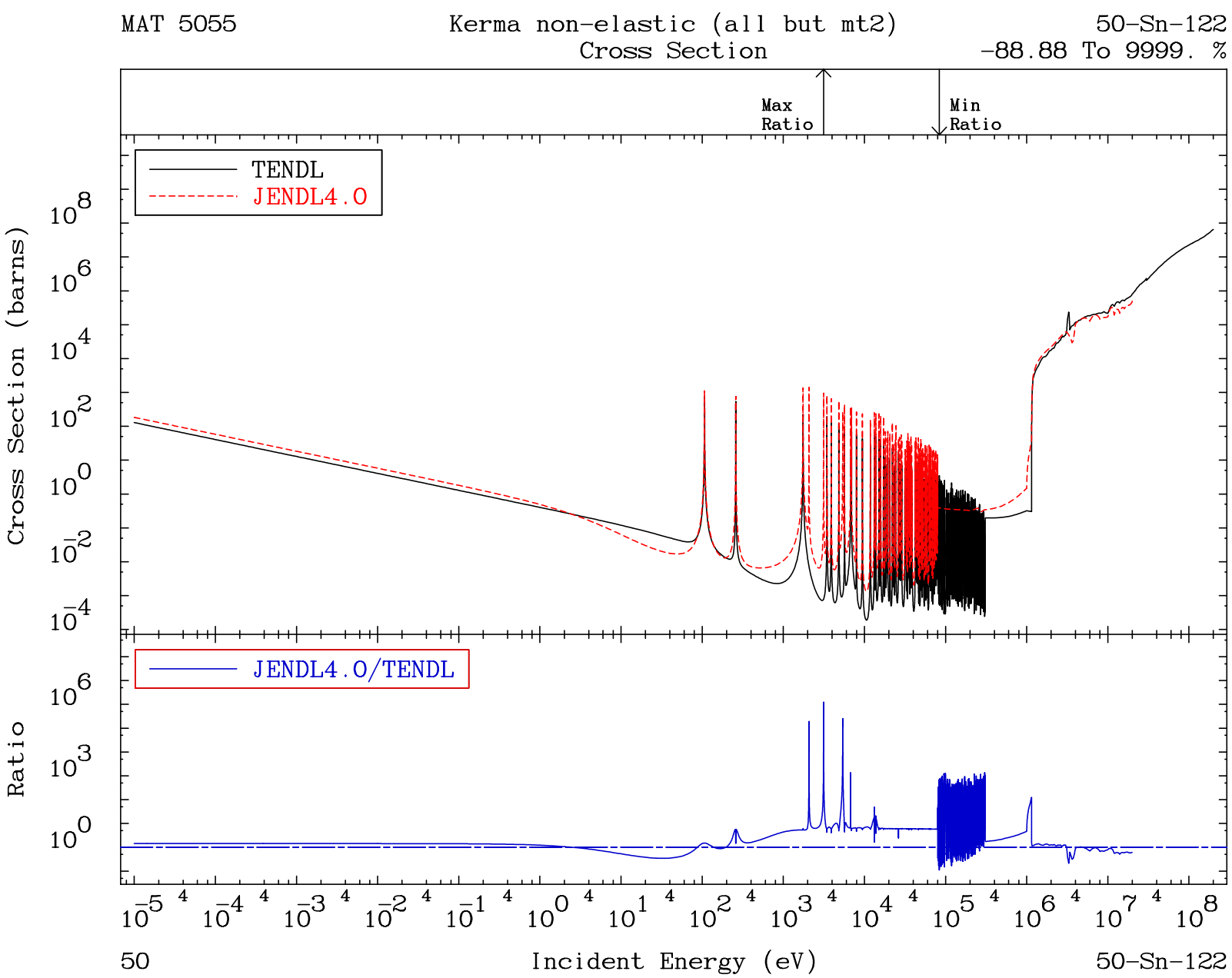

MAT 5055
Tritium Production
Cross Section
50-Sn-122
-99.52 To 9999. %
Max
Ratio
TENDL Threshold 11.183 MeV
JENDL4.0 Threshold 11.181 MeV
Cross Section (milli-barns)
150
100
50
0
JENDL4.0/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
45
Incident Energy (eV)
50-Sn-122

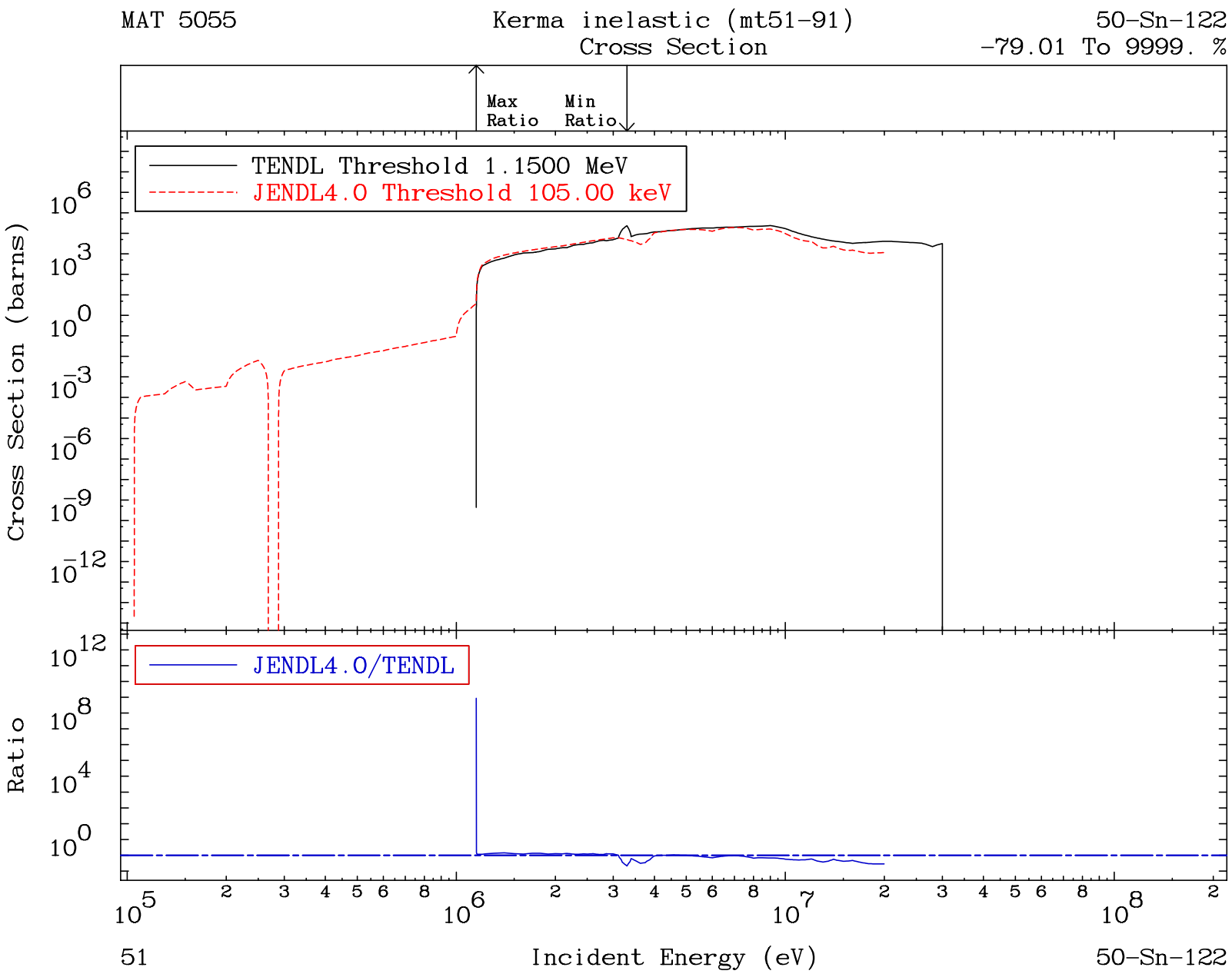

MAT 5055
He-3 Production
Cross Section
50-Sn-122
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 12.950 MeV
JENDL4.0 Threshold 12.938 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^5
10^0
10^-5
10^-10
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
50-Sn-122

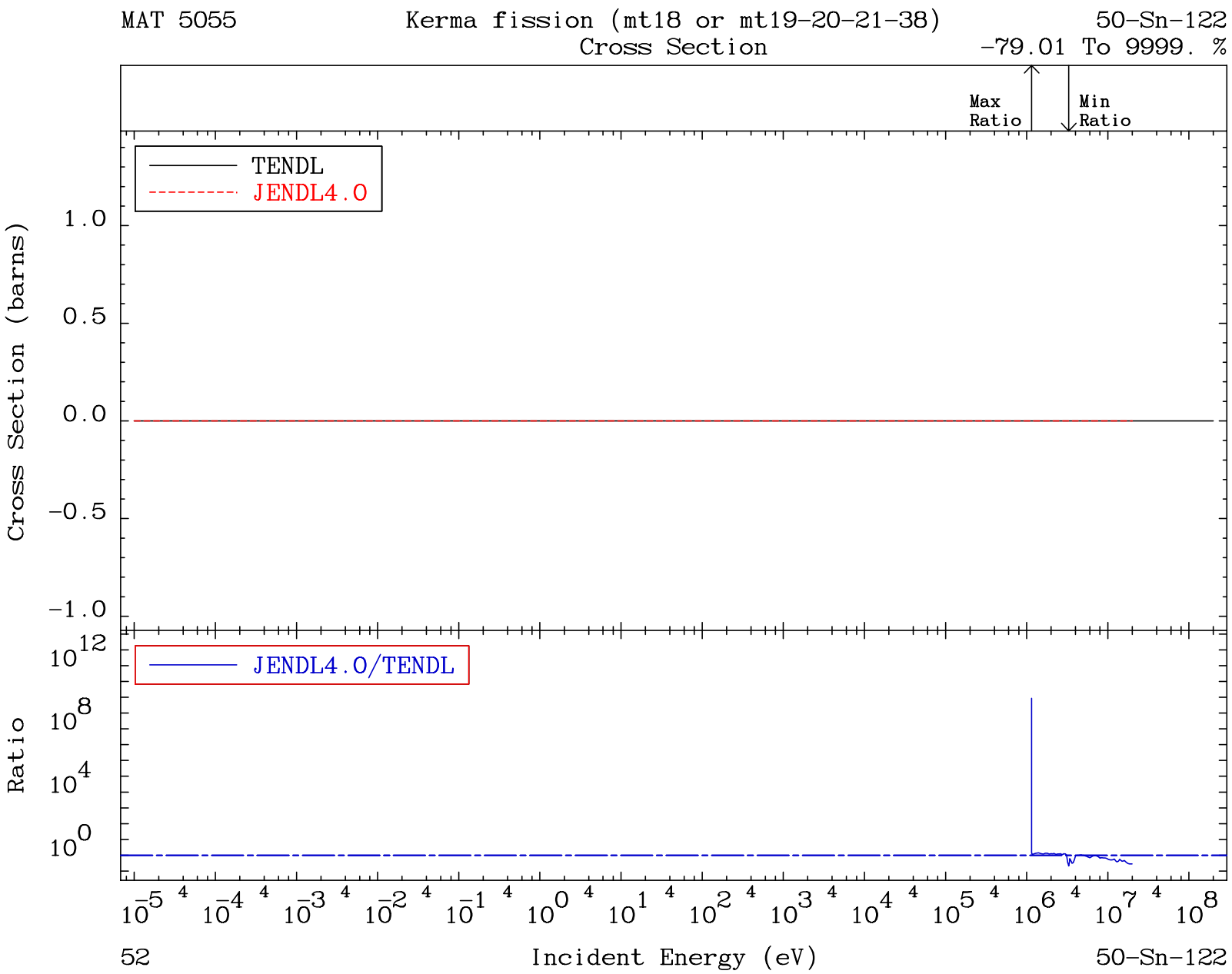

MAT 5055
He-4 Production
Cross Section
50-Sn-122
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 320.48 keV
JENDL4.0 Threshold 400.00 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^4
10^0
10^-4
10^-8
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
47
Incident Energy (eV)
50-Sn-122

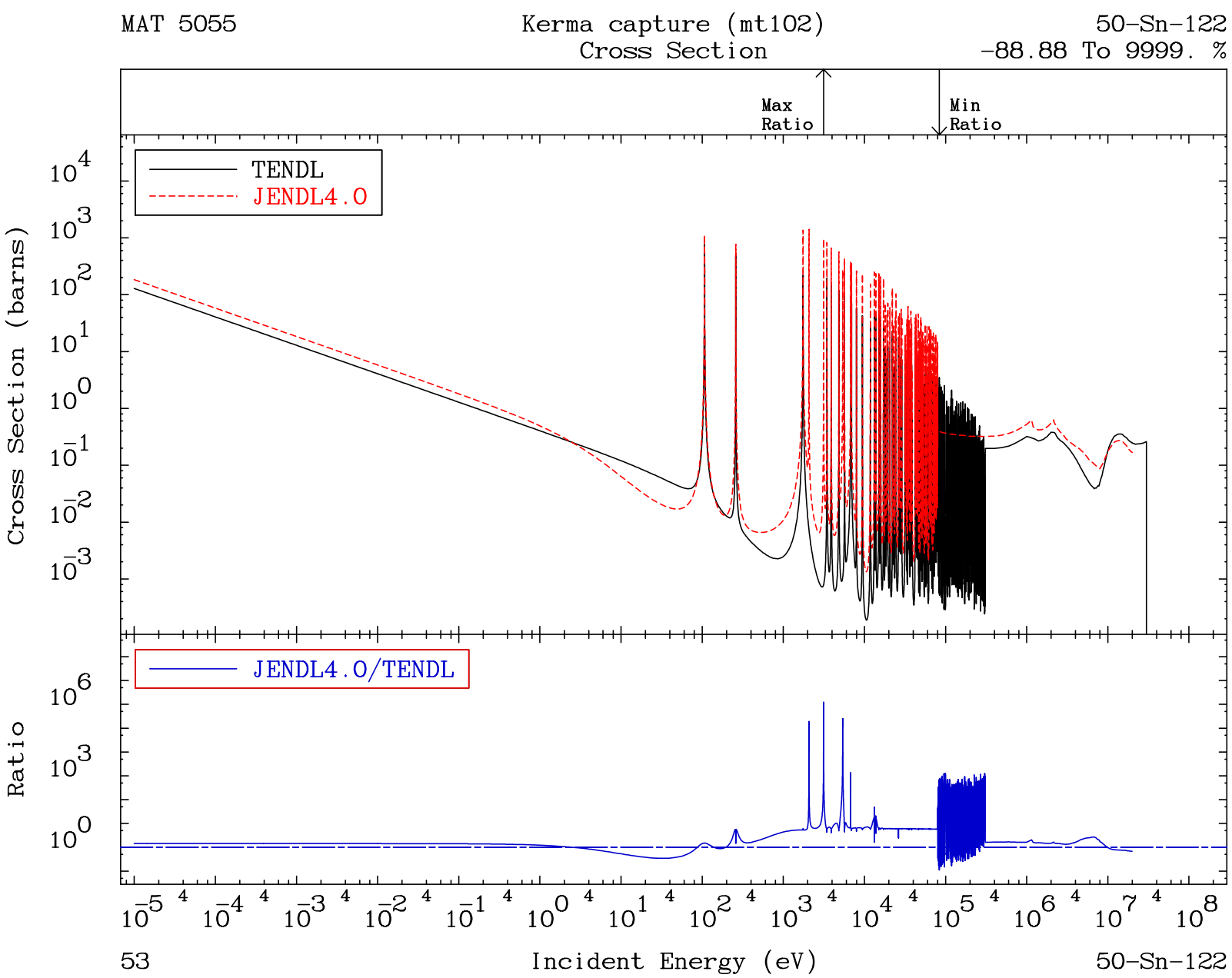

MAT 5055
Kerma total (eV-barns)
Cross Section
50-Sn-122
-98.89 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
48
50-Sn-122

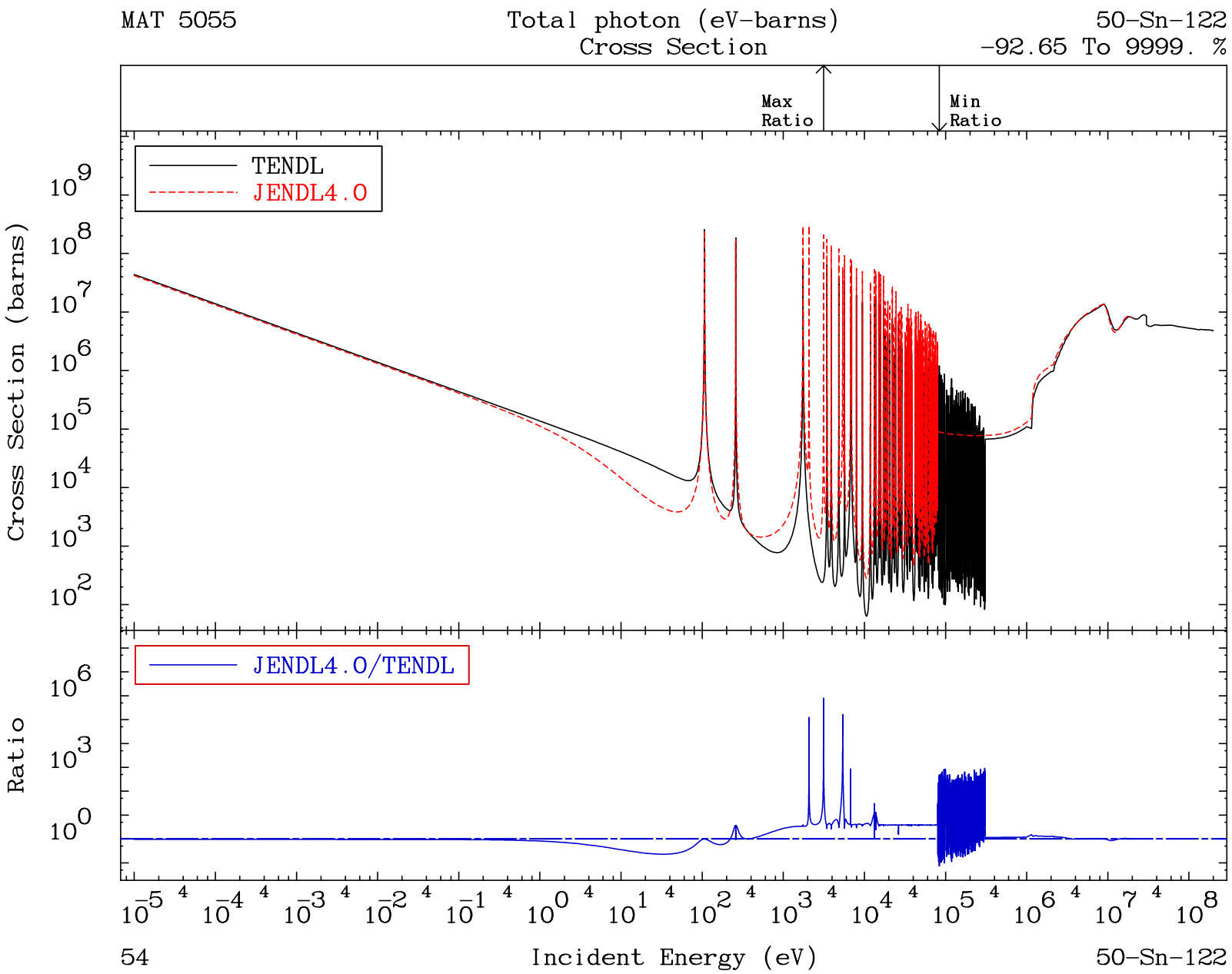

MAT 5055
Kerma elastic
Cross Section
50-Sn-122
-99.73 To 9999. %
Min
Ratio
Max
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
49
50-Sn-122

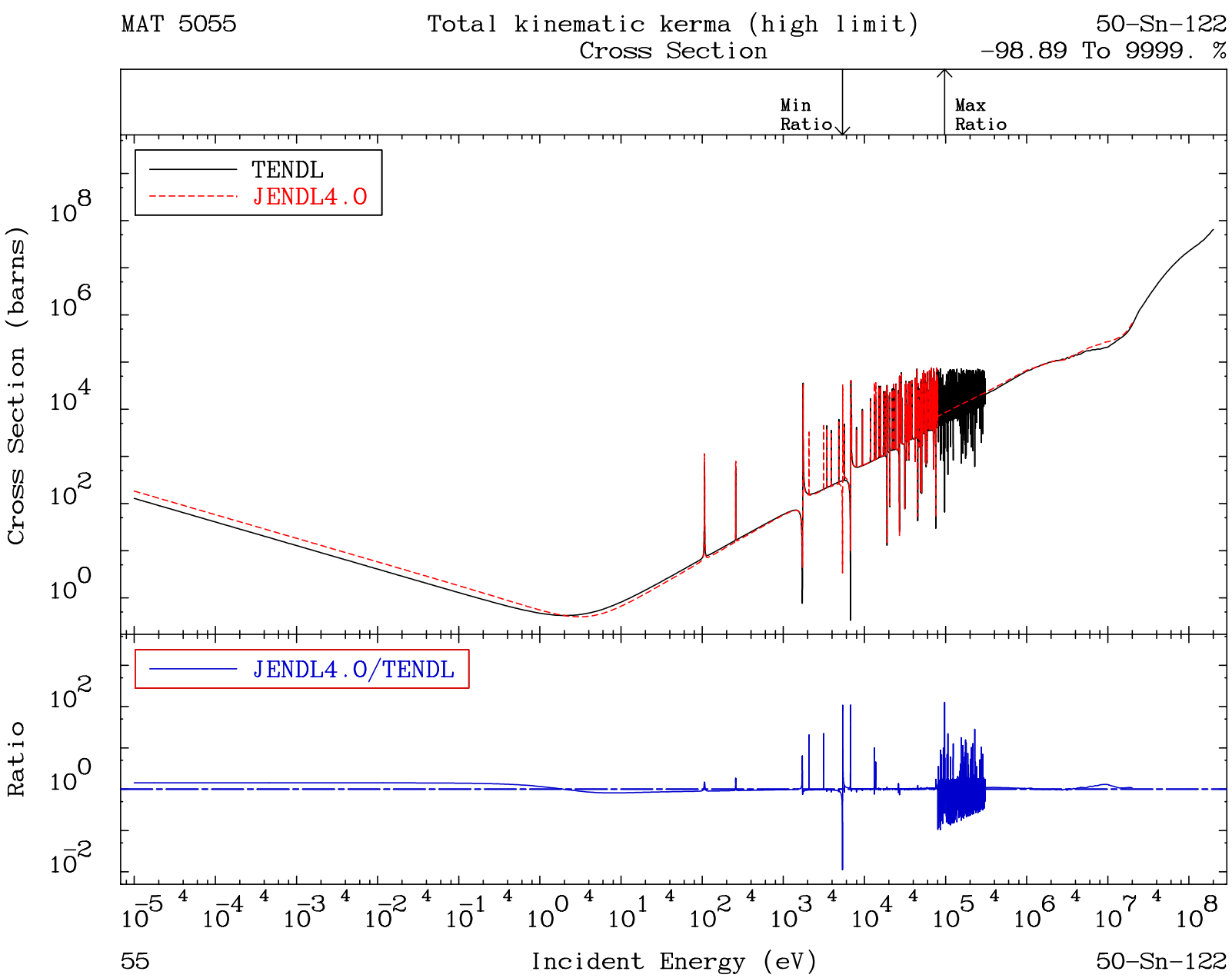

MAT 5055
Kerma non-elastic (all but mt2)
Cross Section
50-Sn-122
-88.88 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
50
50-Sn-122

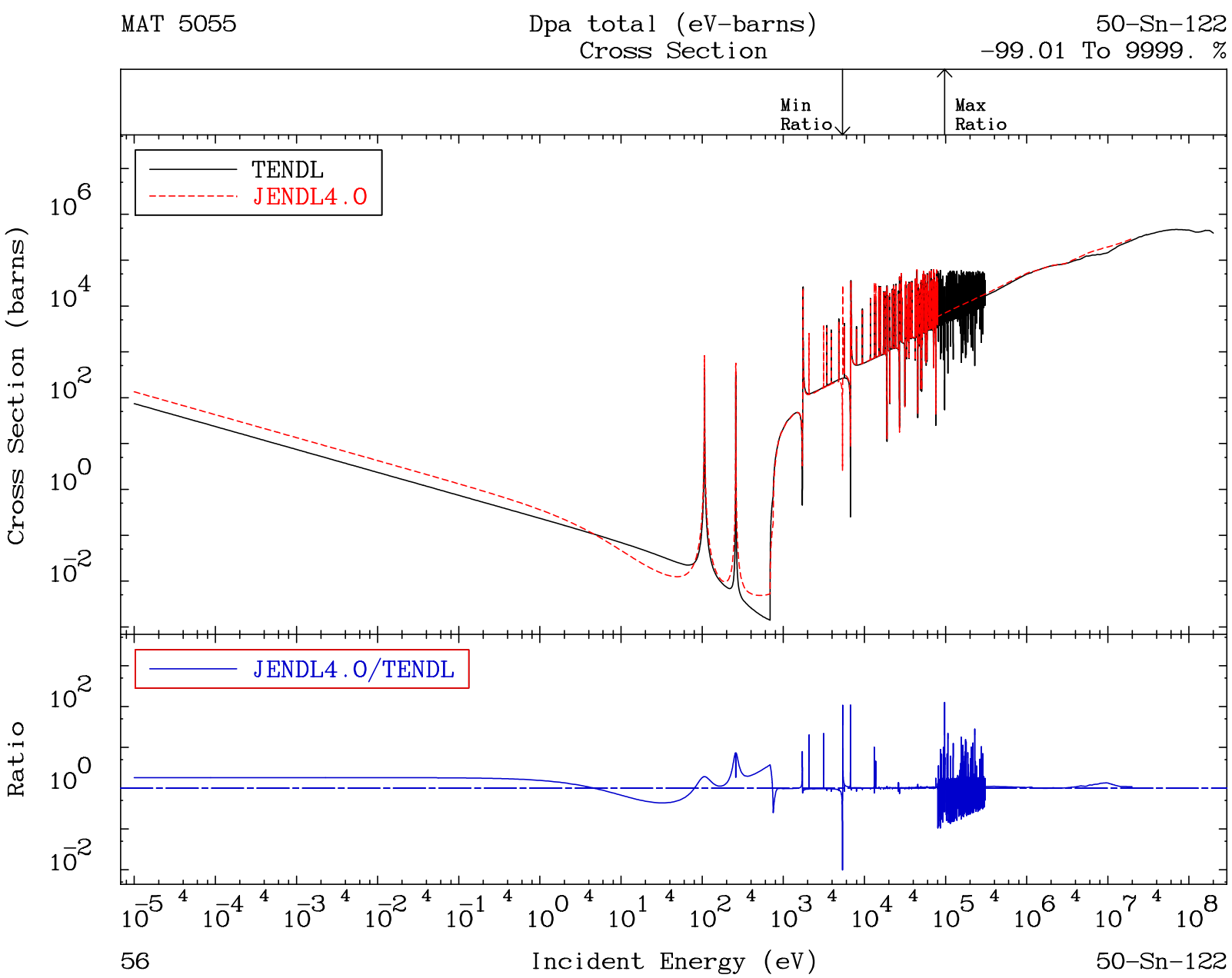

MAT 5055
Kerma inelastic (mt51-91)
Cross Section
50-Sn-122
-79.01 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.1500 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
51
50-Sn-122

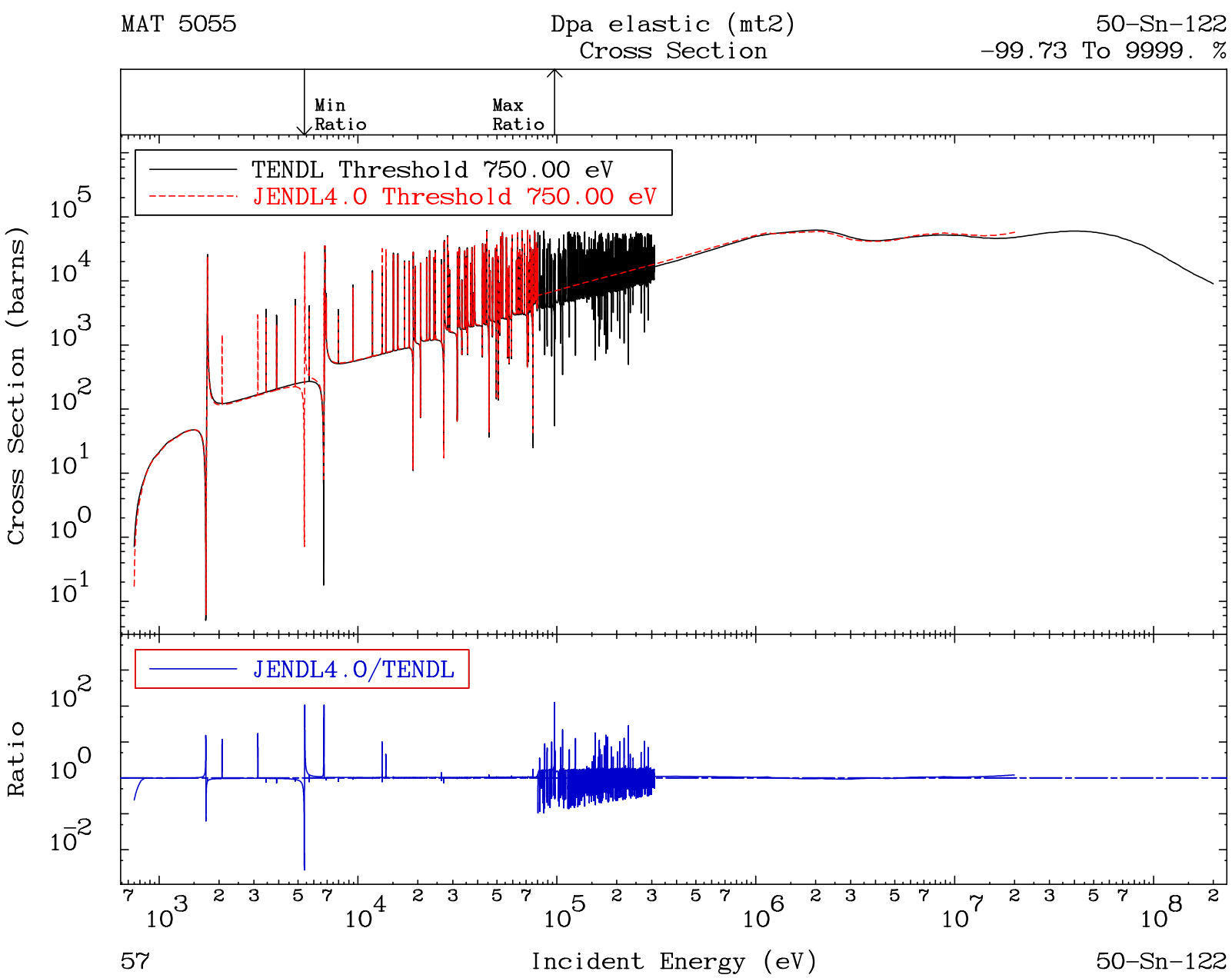

MAT 5055
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
50-Sn-122
-79.01 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^12
10^8
10^4
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
52
Incident Energy (eV)
50-Sn-122

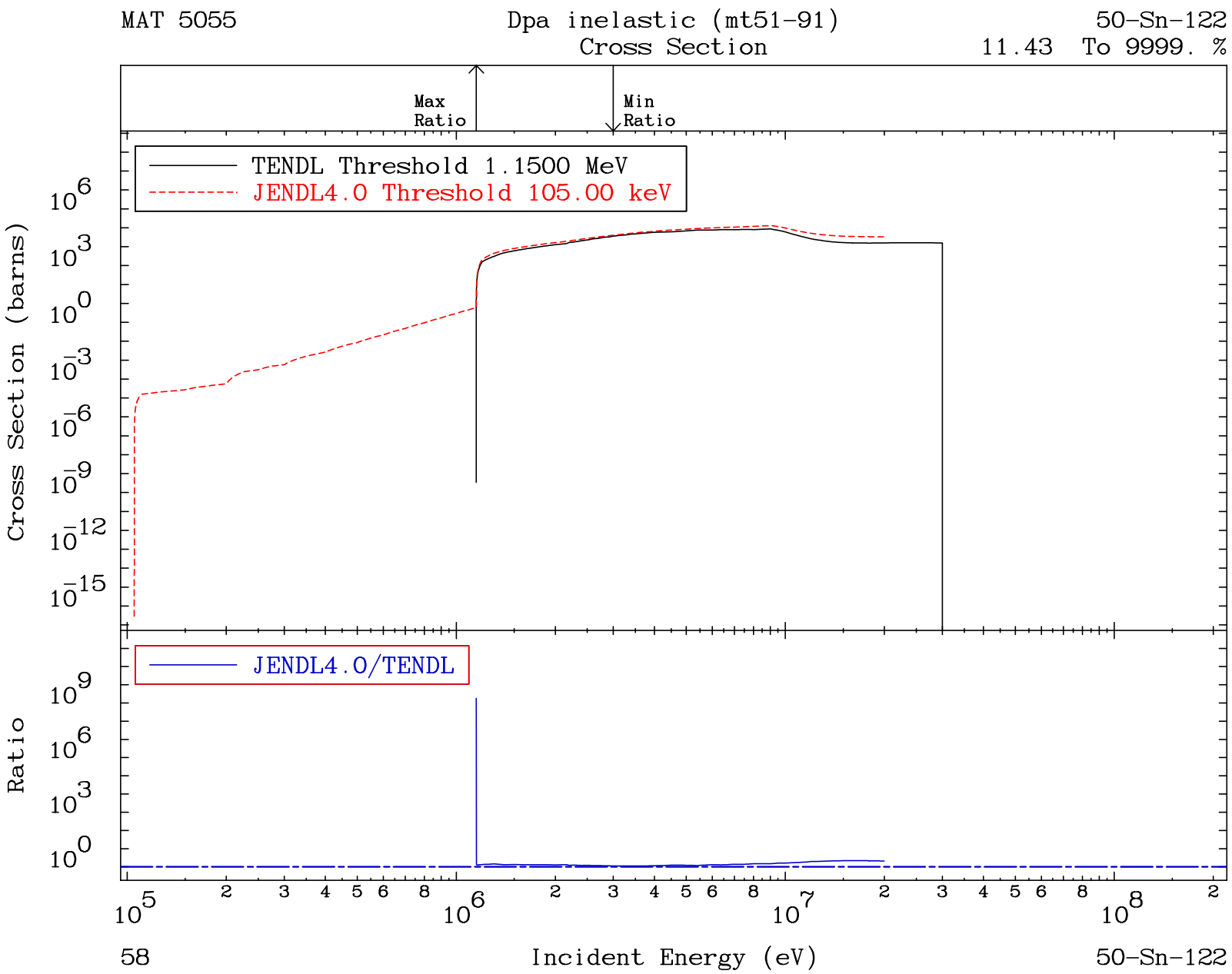

MAT 5055
Kerma capture (mt102)
Cross Section
50-Sn-122
-88.88 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
53
50-Sn-122

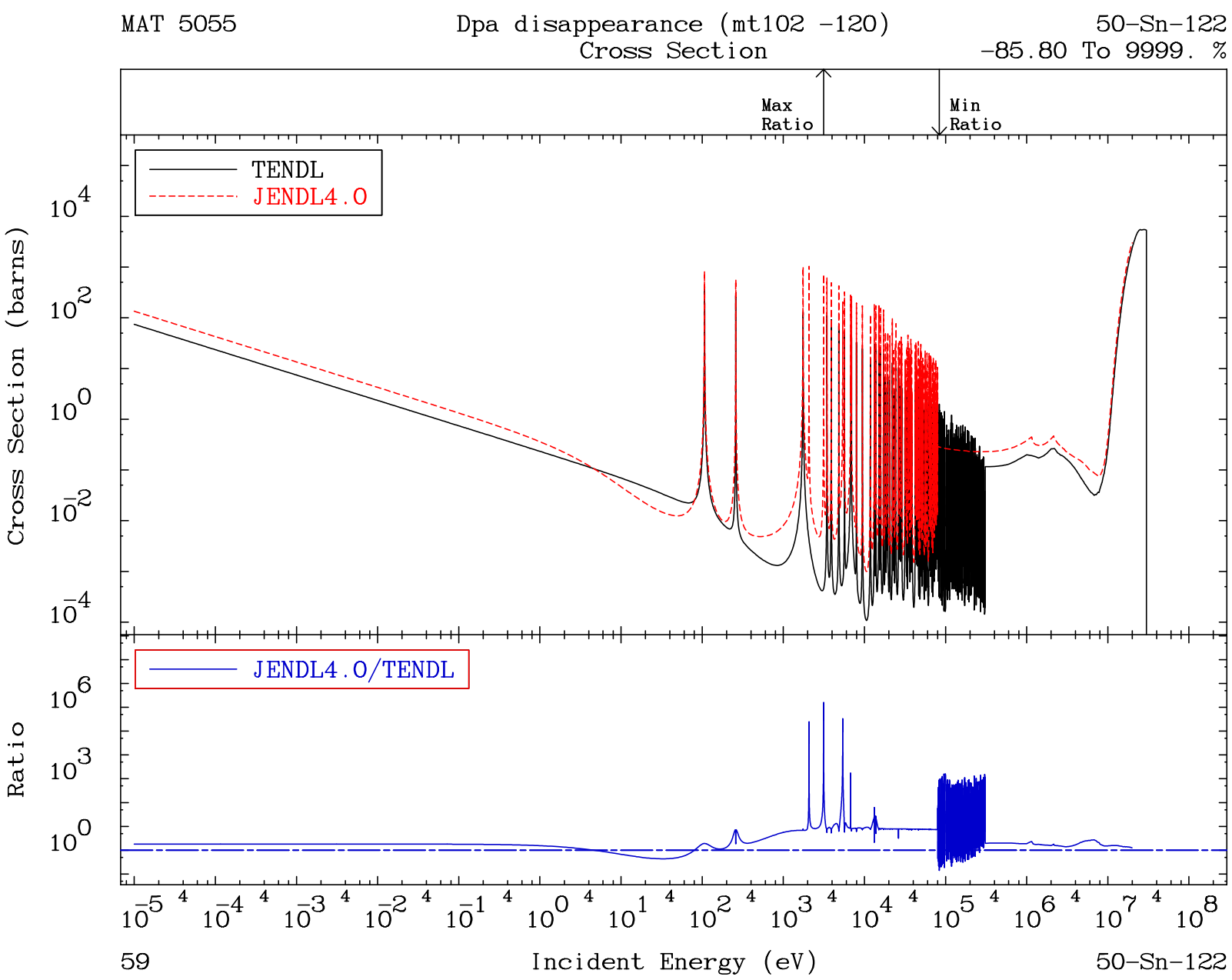

MAT 5055
Total photon (eV-barns)
Cross Section
50-Sn-122
-92.65 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
54
50-Sn-122

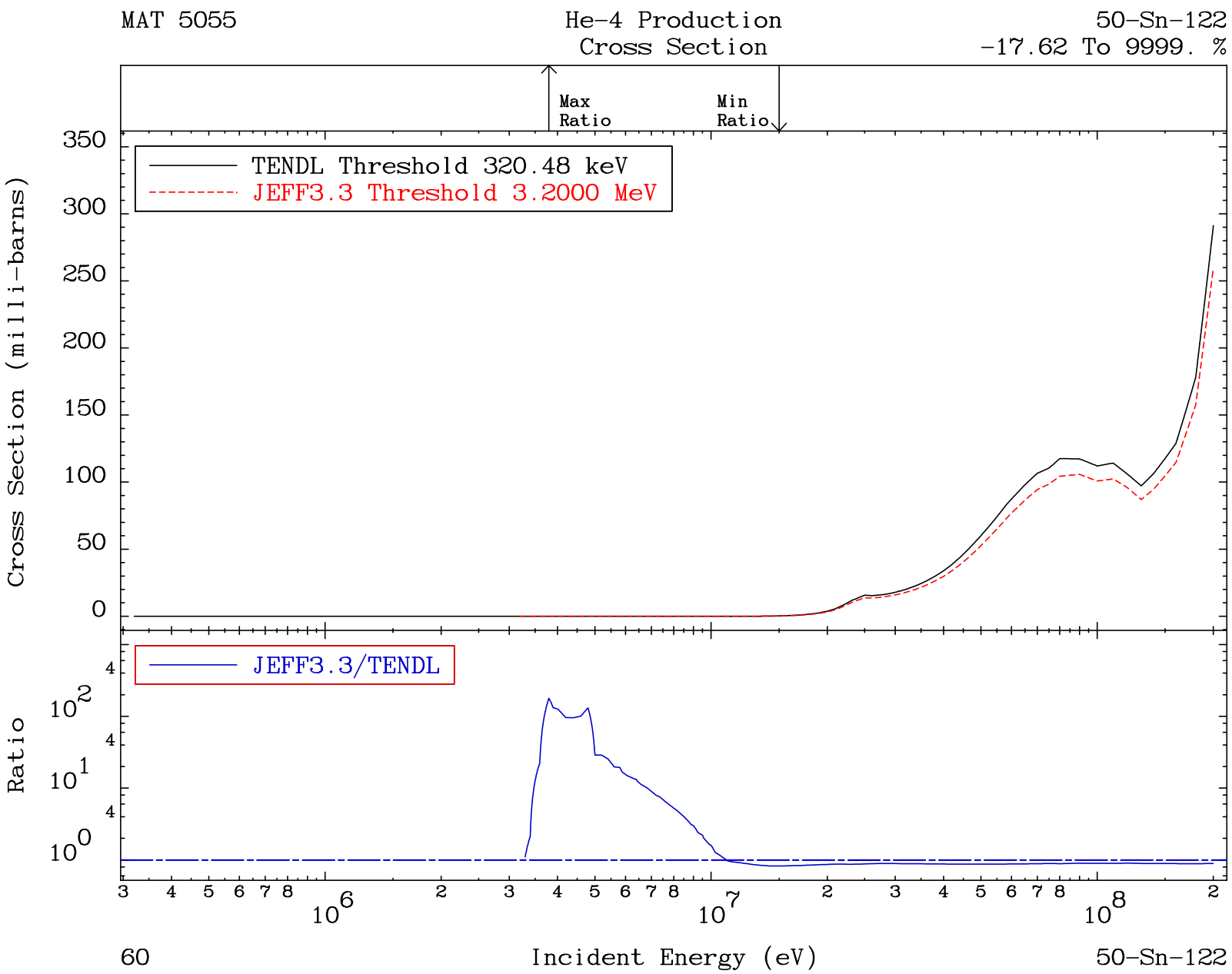

MAT 5055
Total kinematic kerma (high limit)
Cross Section
50-Sn-122
-98.89 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
55
50-Sn-122

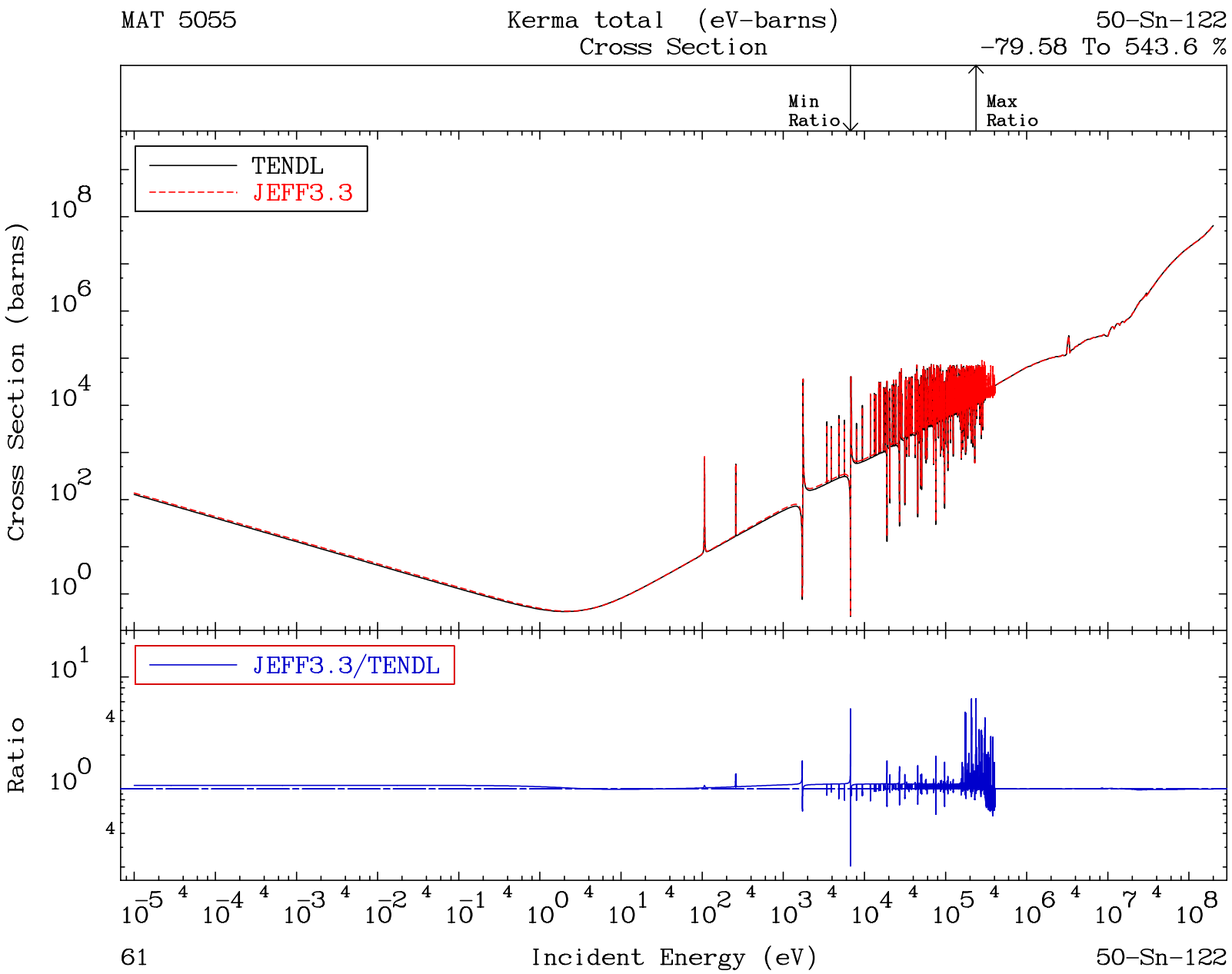

MAT 5055
Dpa total (eV-barns)
Cross Section
50-Sn-122
-99.01 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
56
50-Sn-122

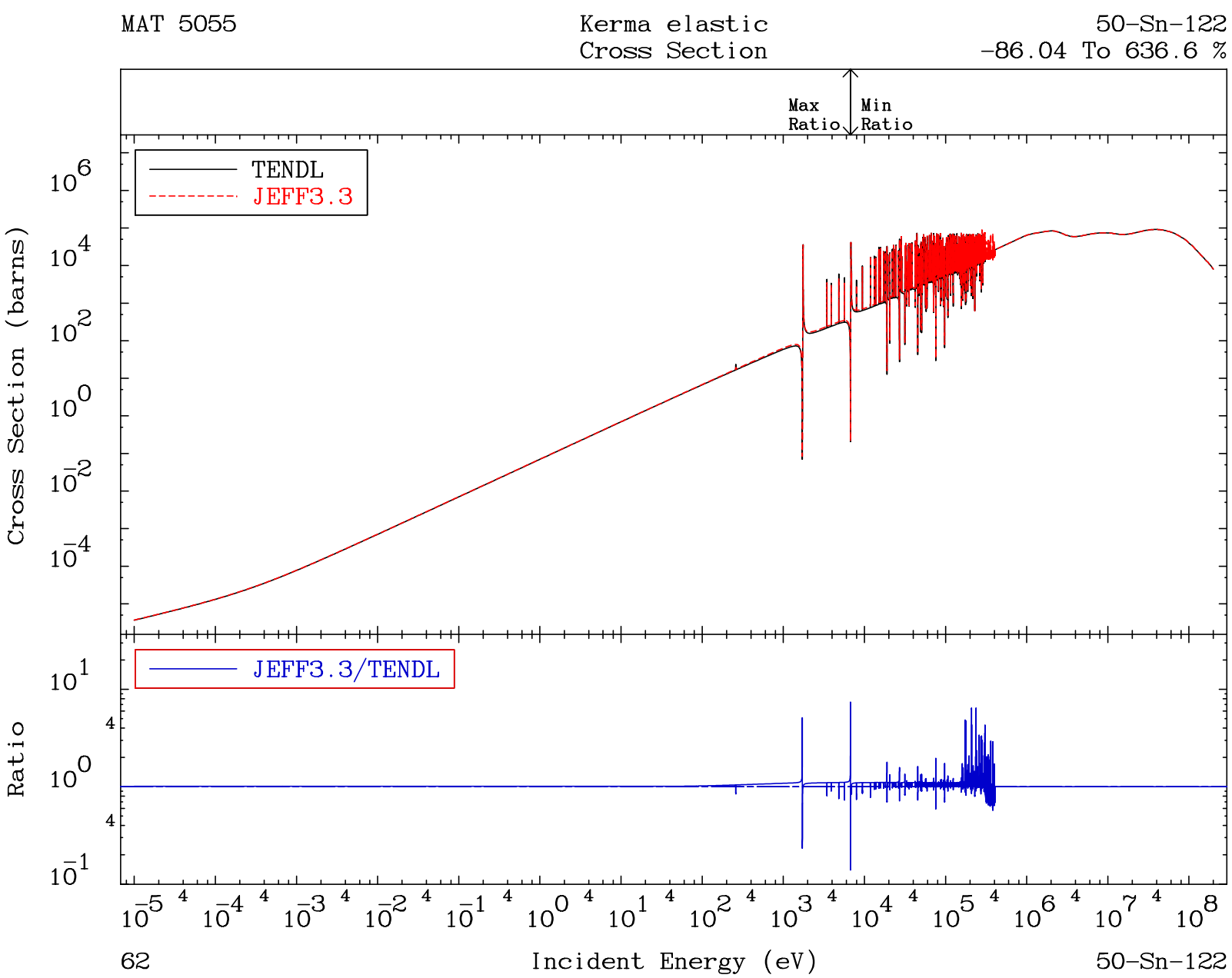

MAT 5055
Dpa elastic (mt2)
Cross Section
50-Sn-122
-99.73 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 750.00 eV
JENDL4.0 Threshold 750.00 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
57
Incident Energy (eV)
50-Sn-122

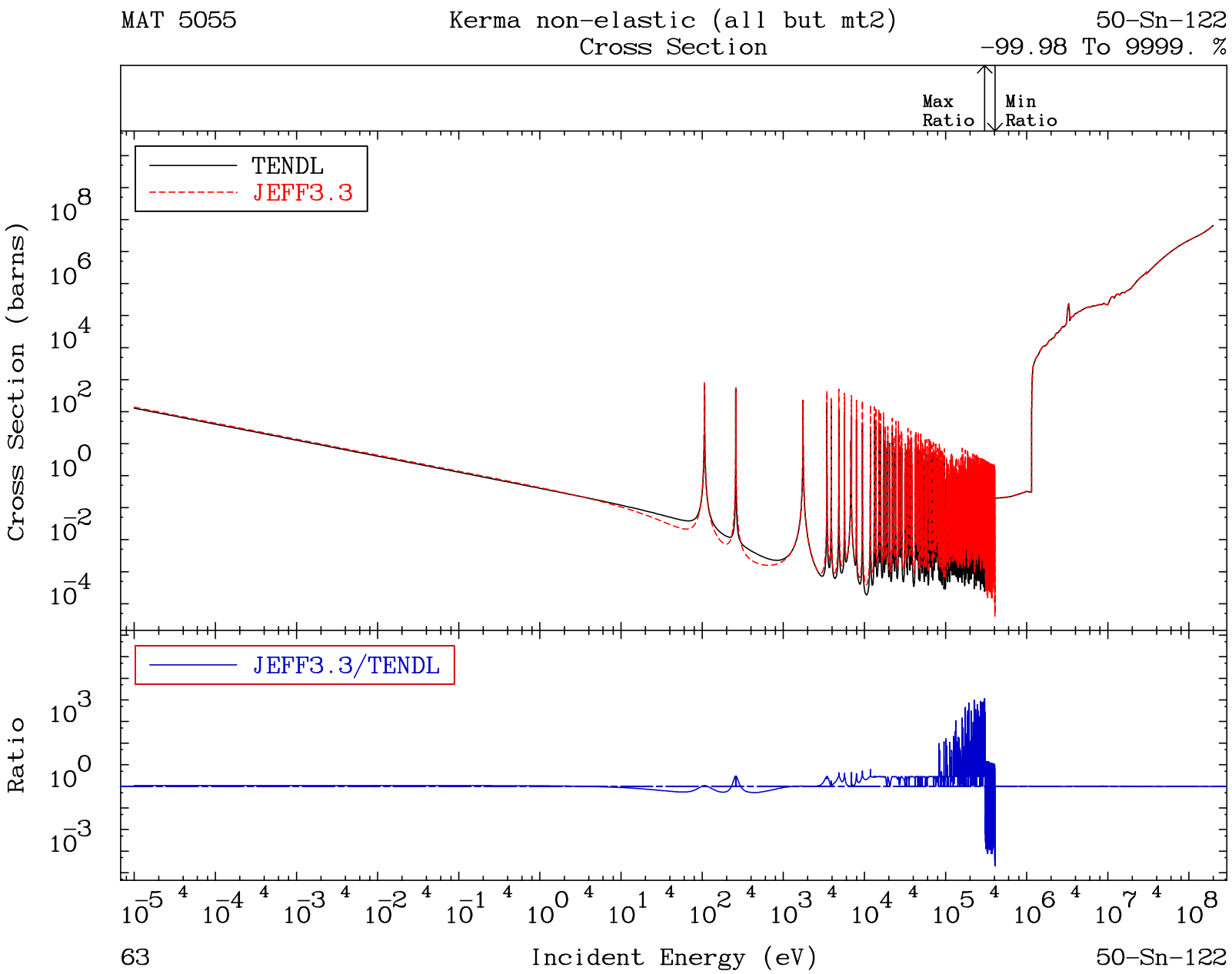

MAT 5055
Dpa inelastic (mt51-91)
Cross Section
50-Sn-122
11.43 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.1500 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
58
50-Sn-122

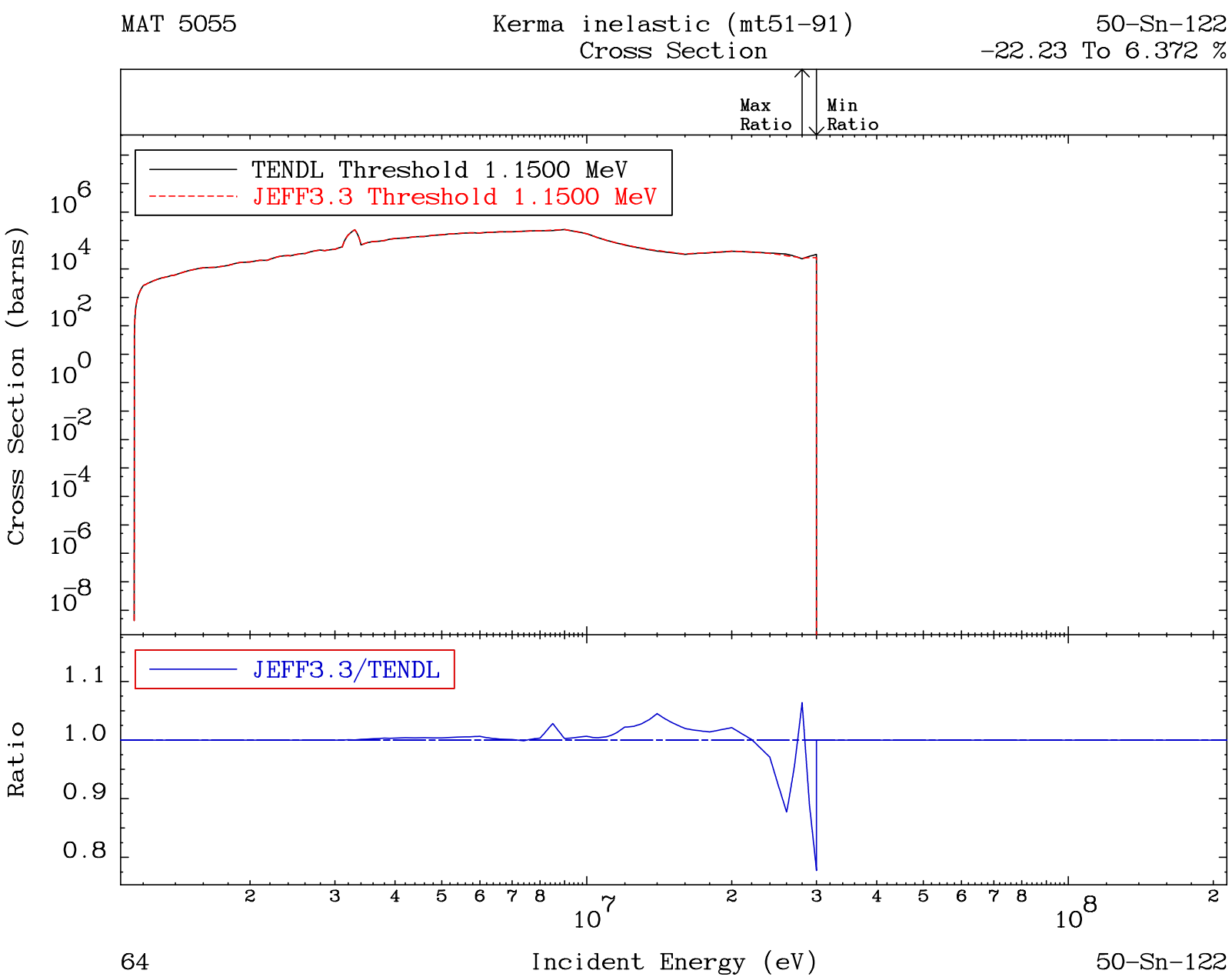

MAT 5055
Dpa disappearance (mt102 -120)
Cross Section
50-Sn-122
-85.80 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
59
50-Sn-122

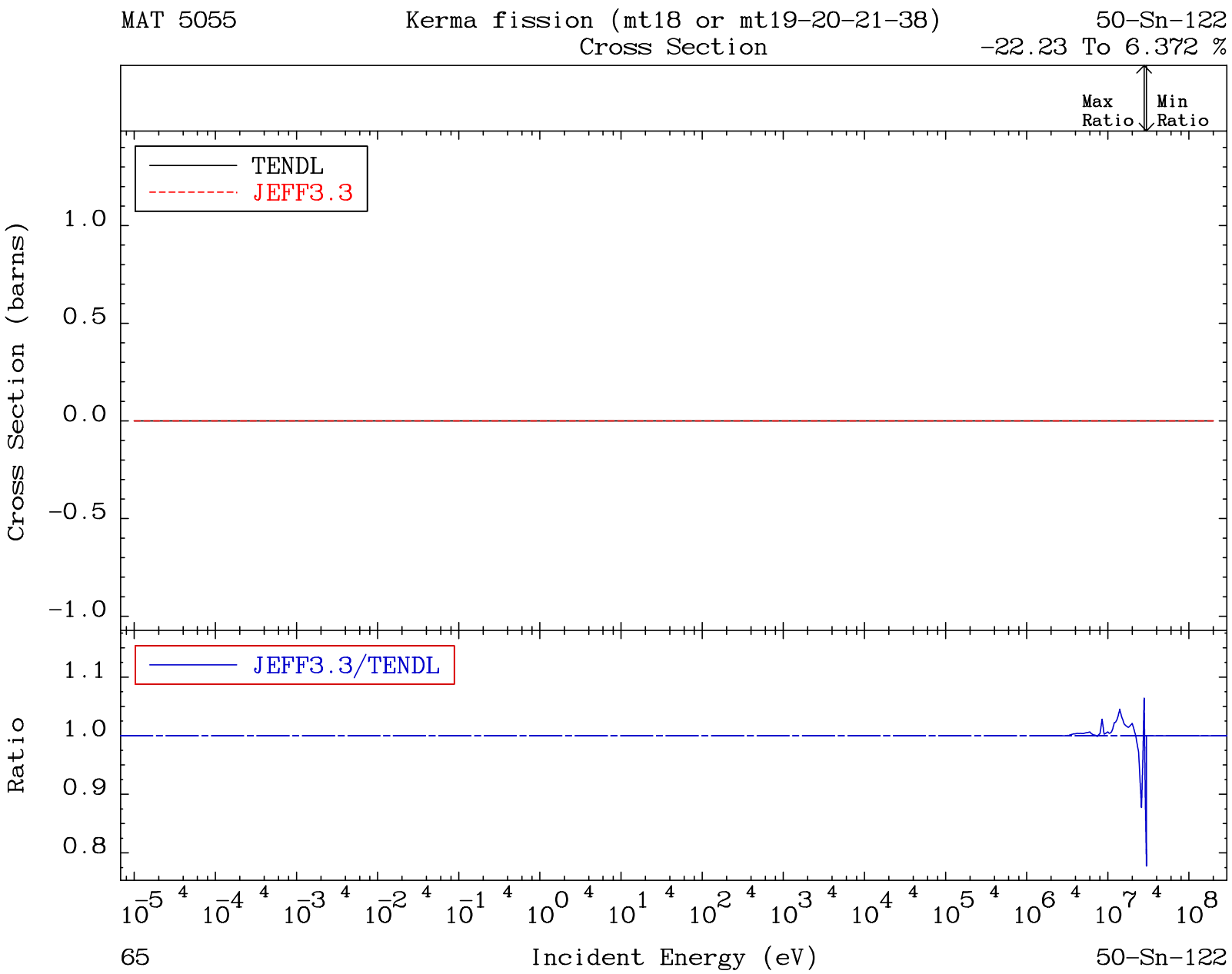

MAT 5055
He-4 Production
Cross Section
50-Sn-122
-17.62 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 320.48 keV
JEFF3.3 Threshold 3.2000 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
60
Incident Energy (eV)
50-Sn-122

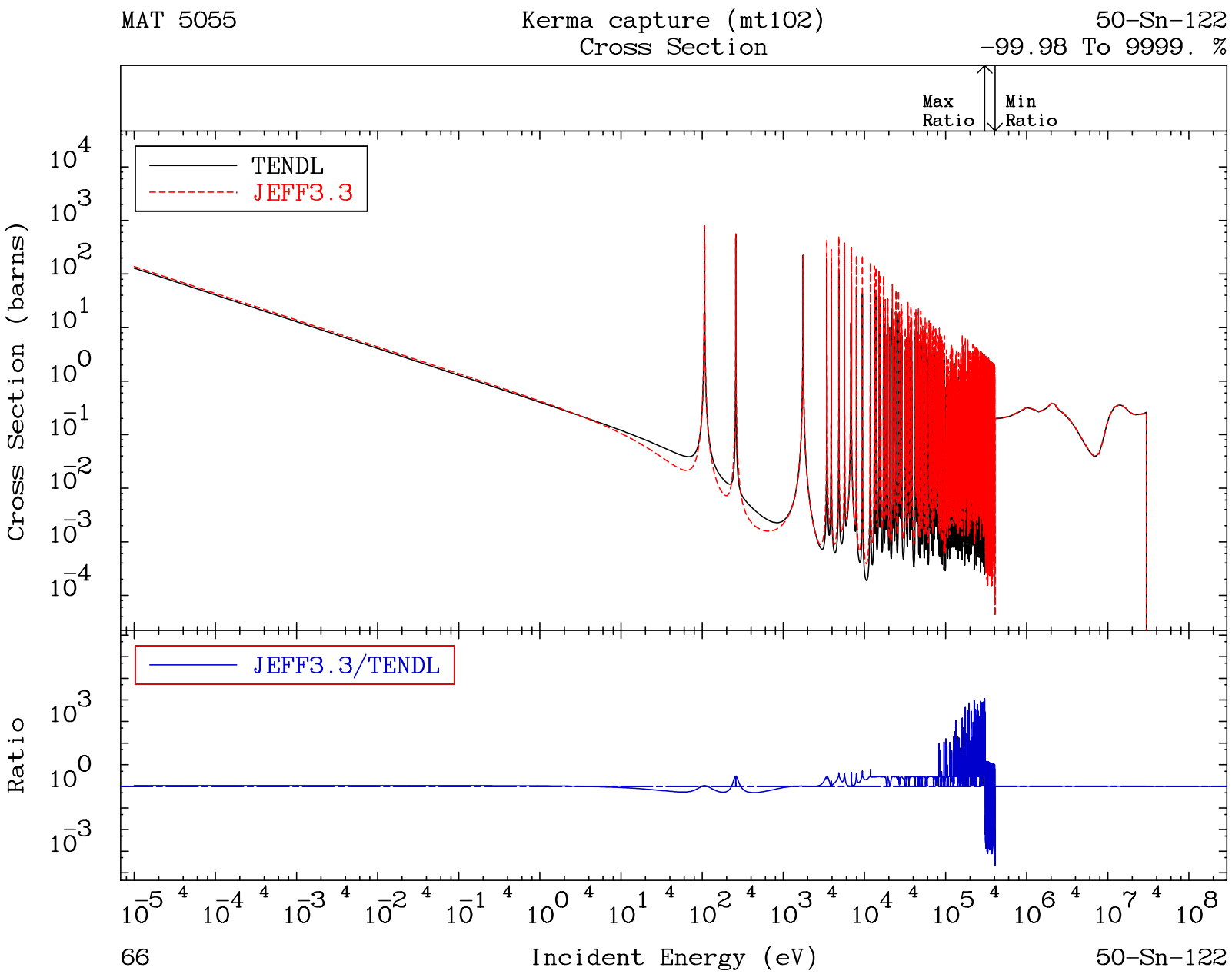

MAT 5055
Kerma total (eV-barns)
Cross Section
50-Sn-122
-79.58 To 543.6 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
61
50-Sn-122

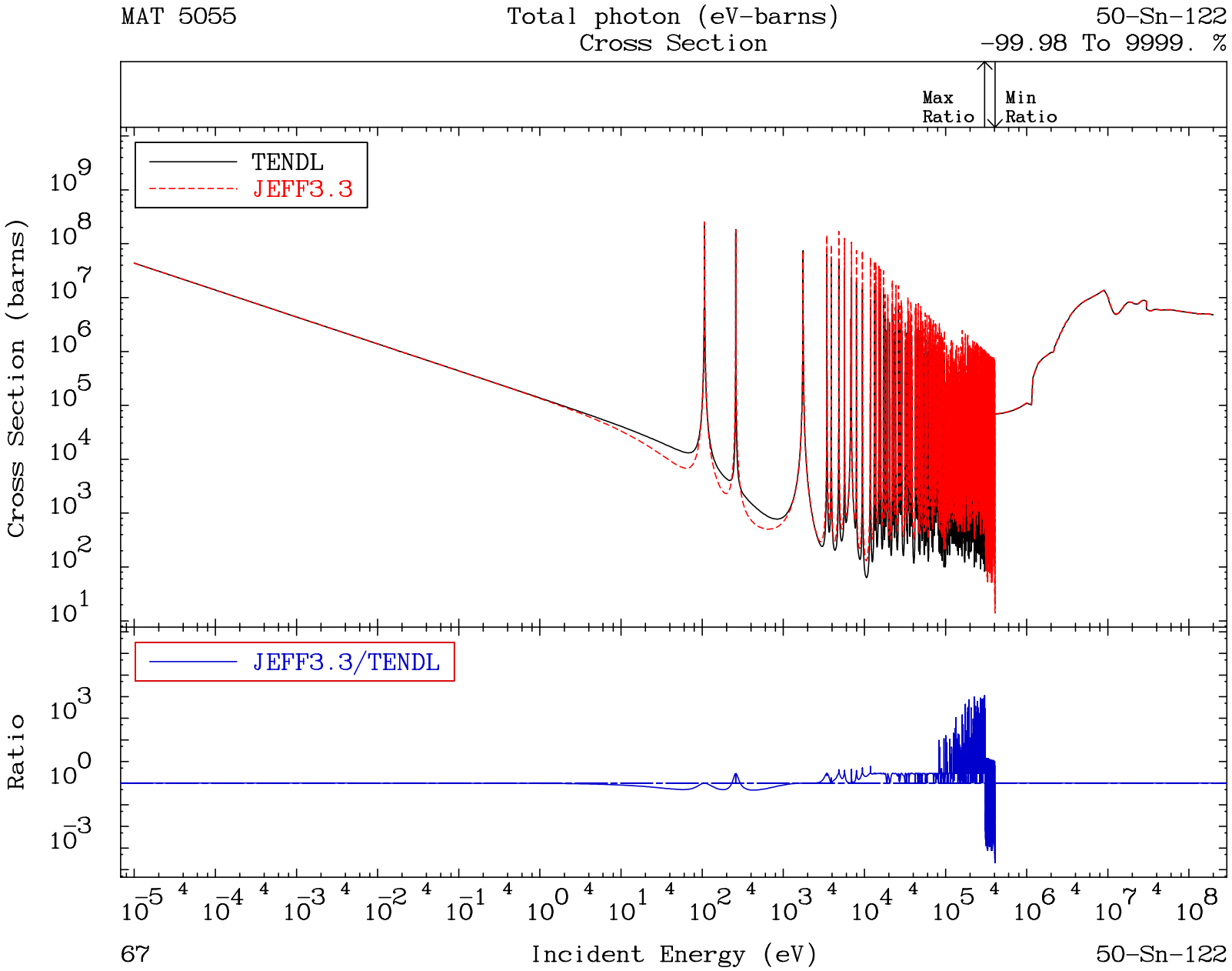

MAT 5055
Kerma elastic
Cross Section
50-Sn-122
-86.04 To 636.6 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
62
50-Sn-122

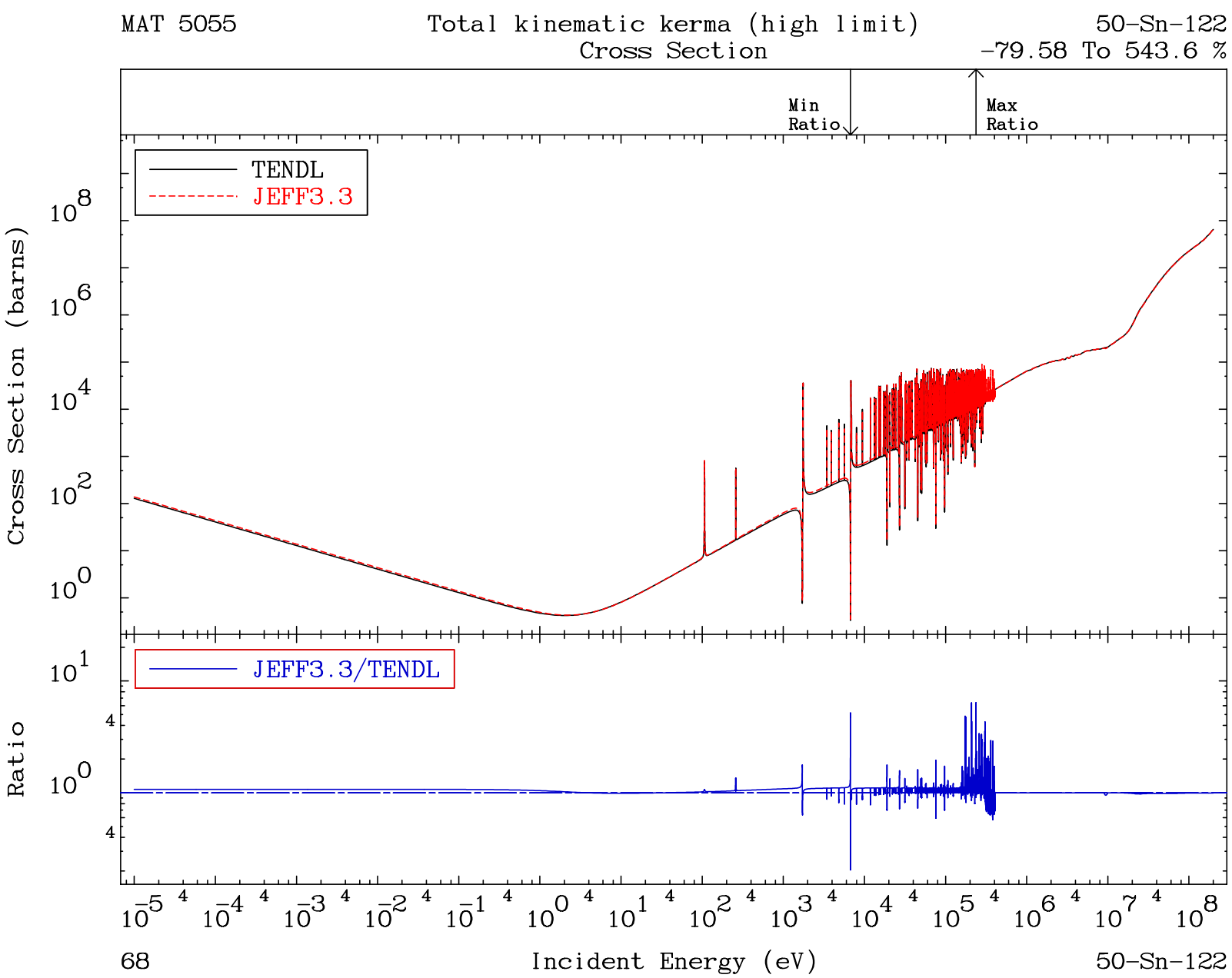

MAT 5055
Kerma non-elastic (all but mt2)
Cross Section
50-Sn-122
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
63
50-Sn-122

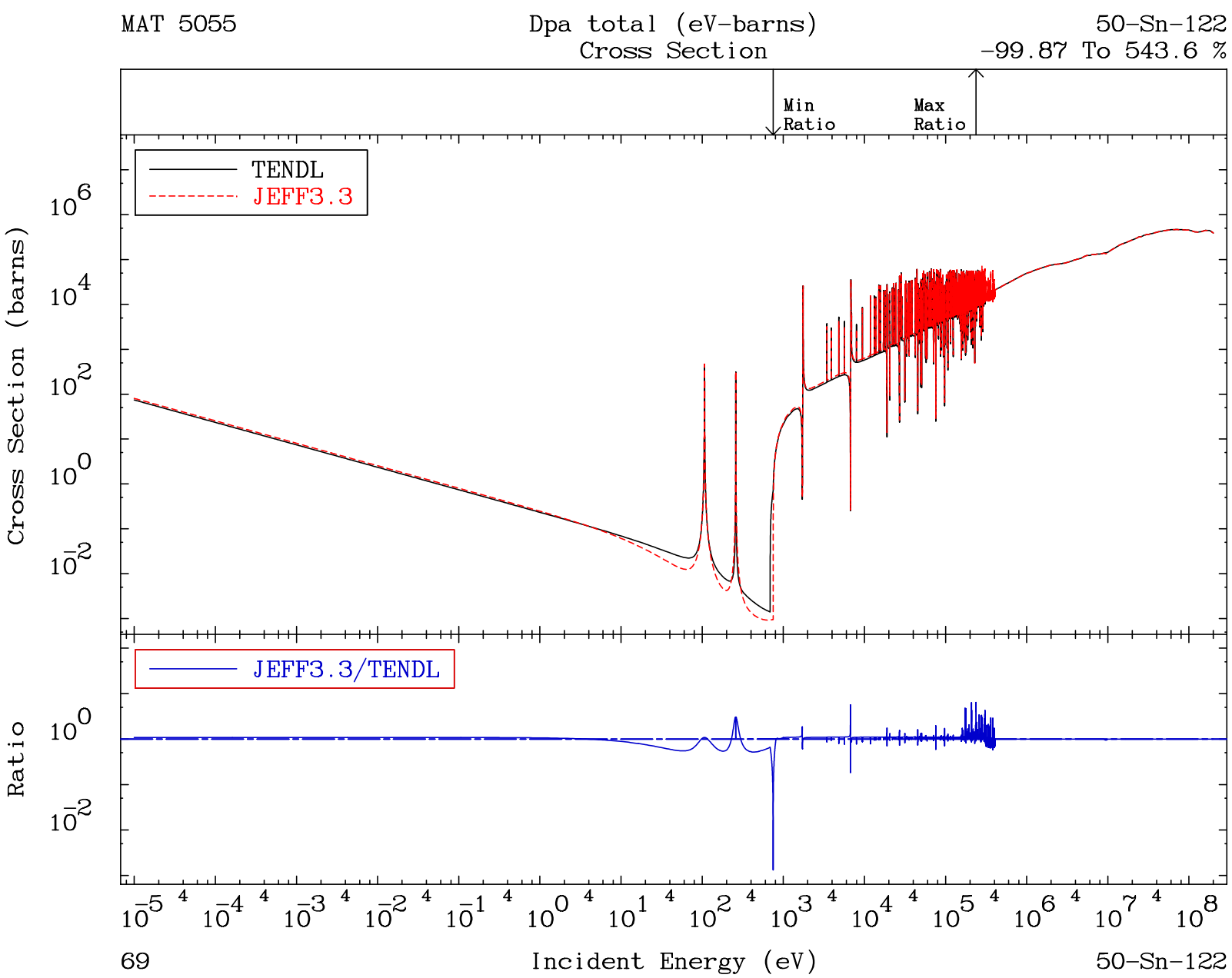

MAT 5055
Kerma inelastic (mt51-91)
Cross Section
50-Sn-122
-22.23 To 6.372 %
Max Ratio
Min Ratio
TENDL Threshold 1.1500 MeV
JEFF3.3 Threshold 1.1500 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
50-Sn-122

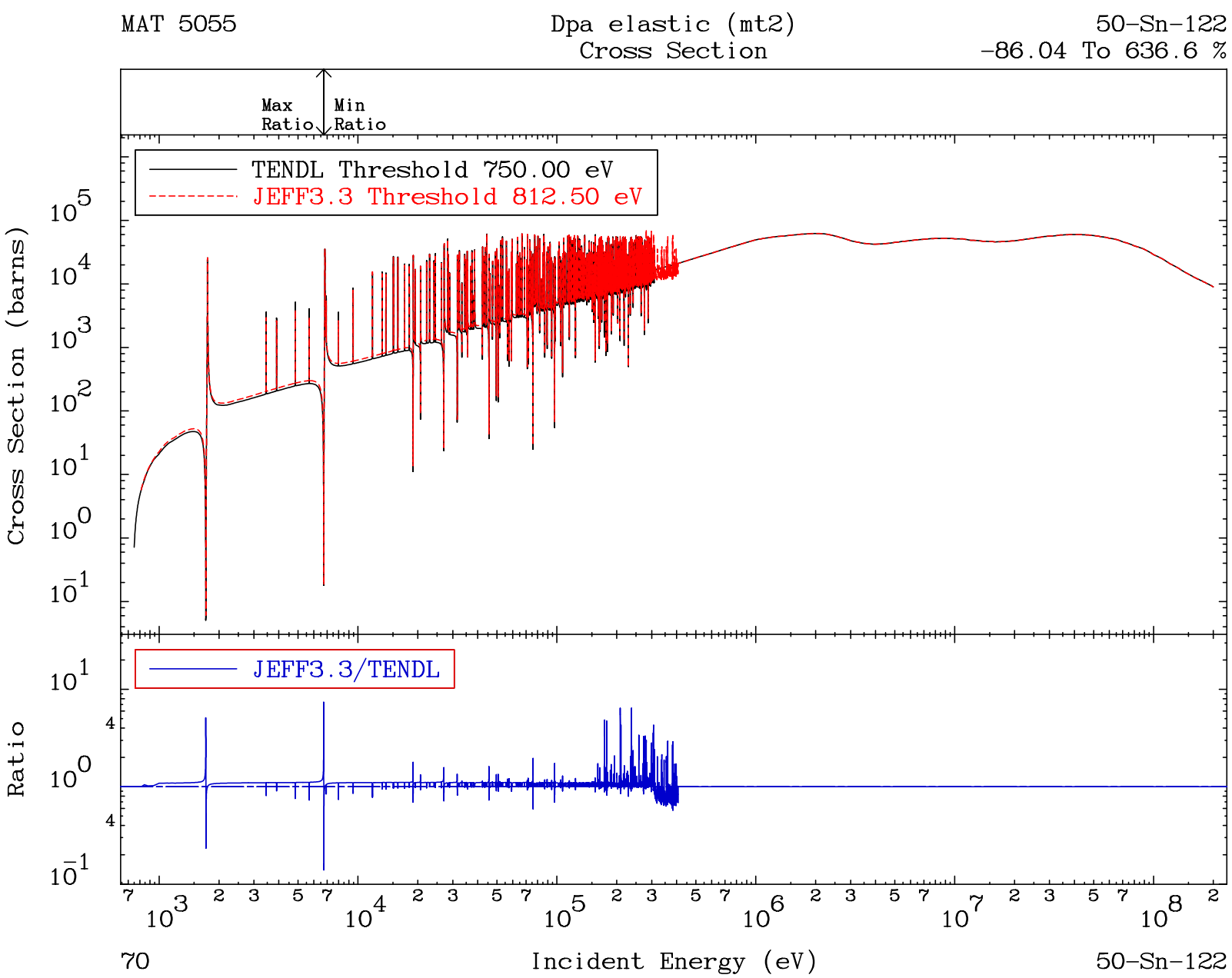

MAT 5055
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
50-Sn-122
-22.23 To 6.372 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
65
Incident Energy (eV)
50-Sn-122

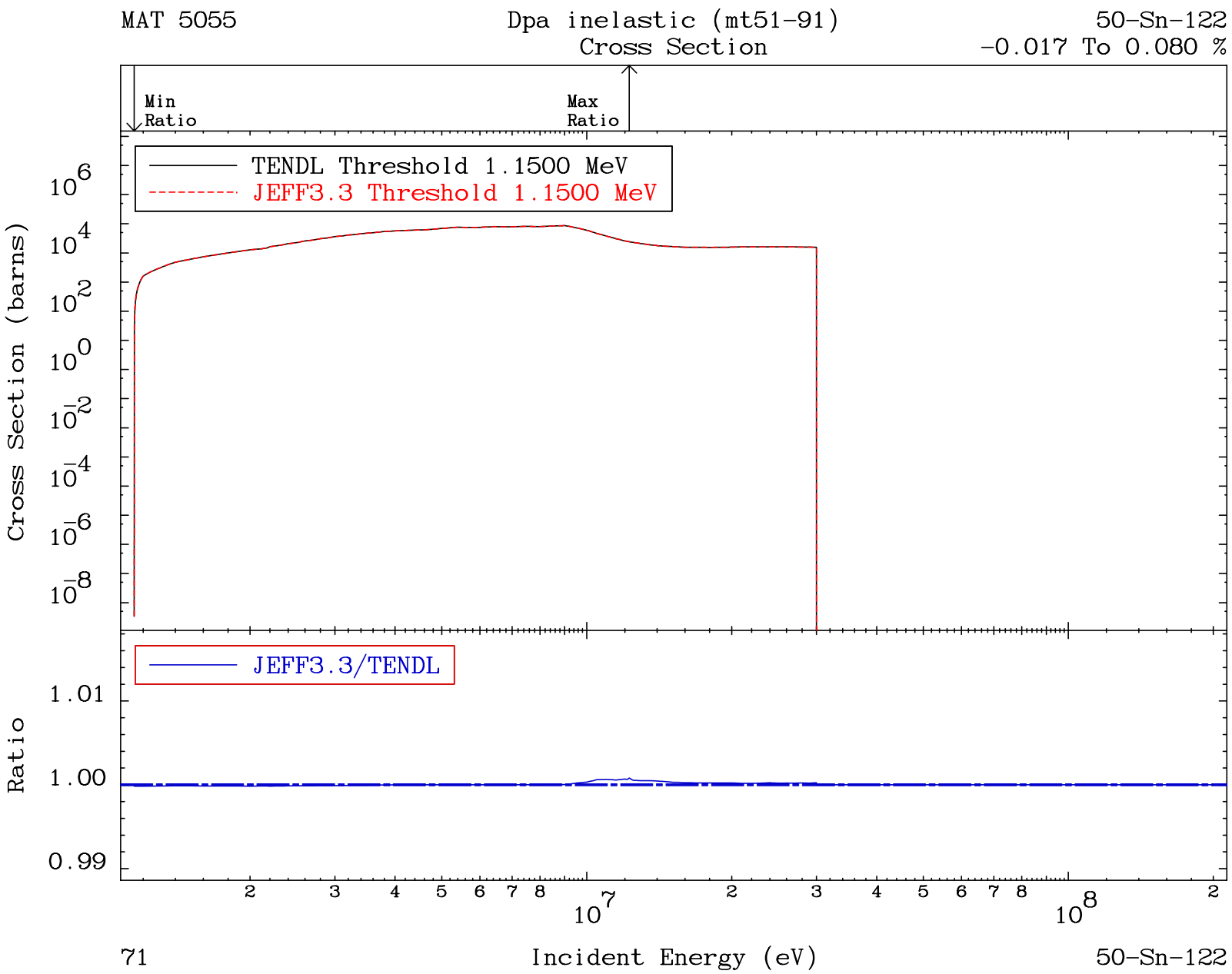

MAT 5055
Kerma capture (mt102)
Cross Section
50-Sn-122
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
50-Sn-122

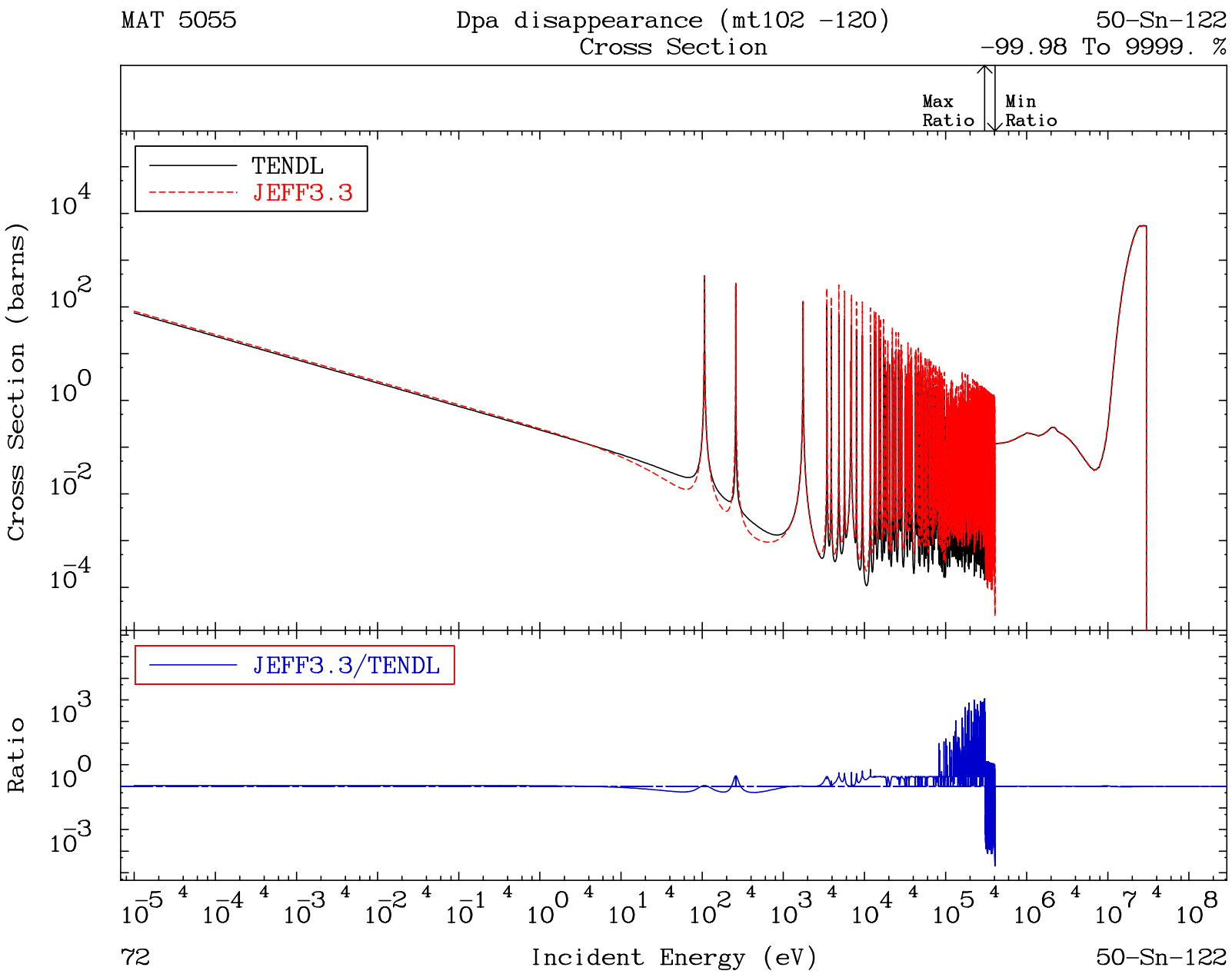

MAT 5055
Total photon (eV-barns)
Cross Section
50-Sn-122
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
67
50-Sn-122

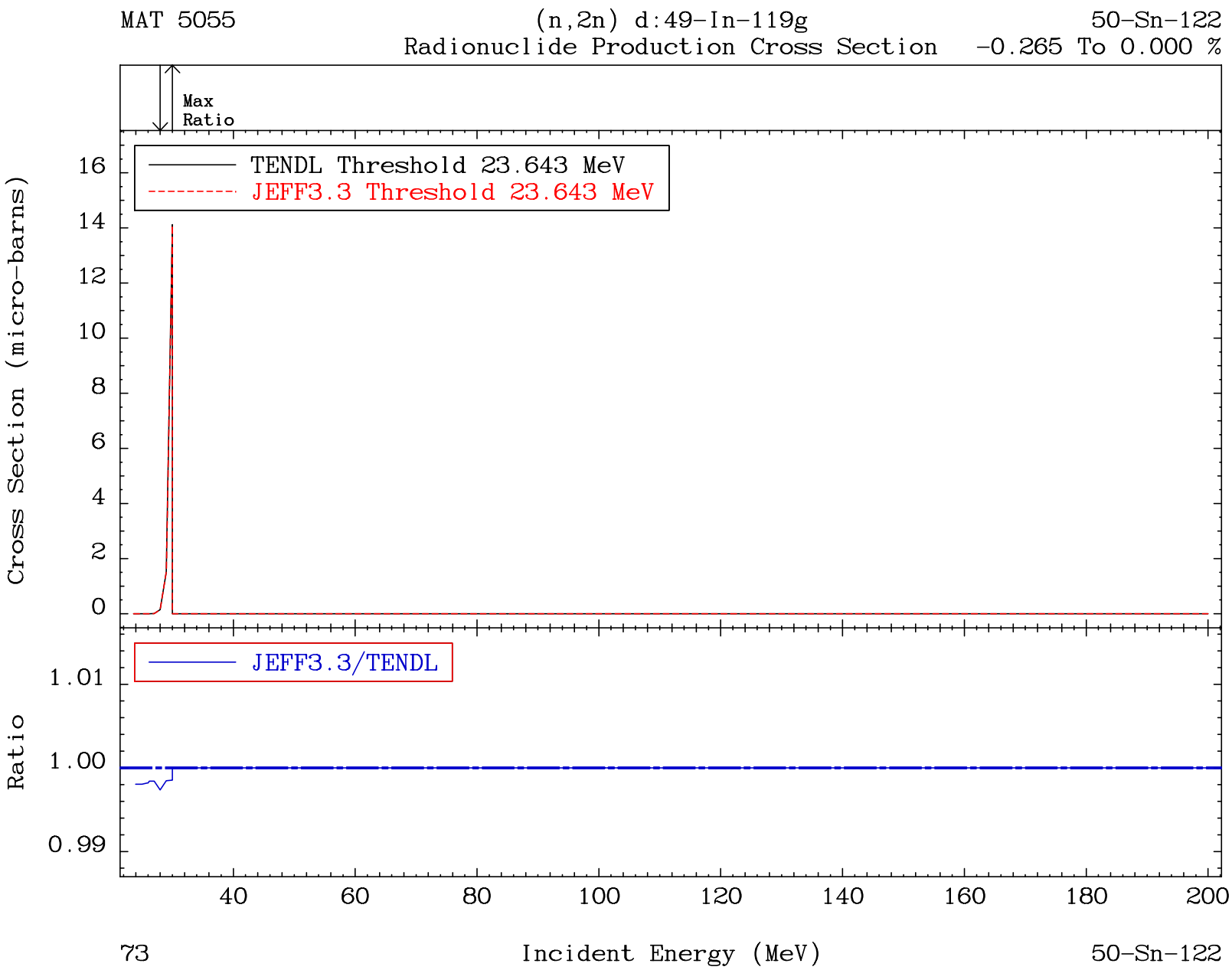

MAT 5055
Total kinematic kerma (high limit)
Cross Section
50-Sn-122
-79.58 To 543.6 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
50-Sn-122

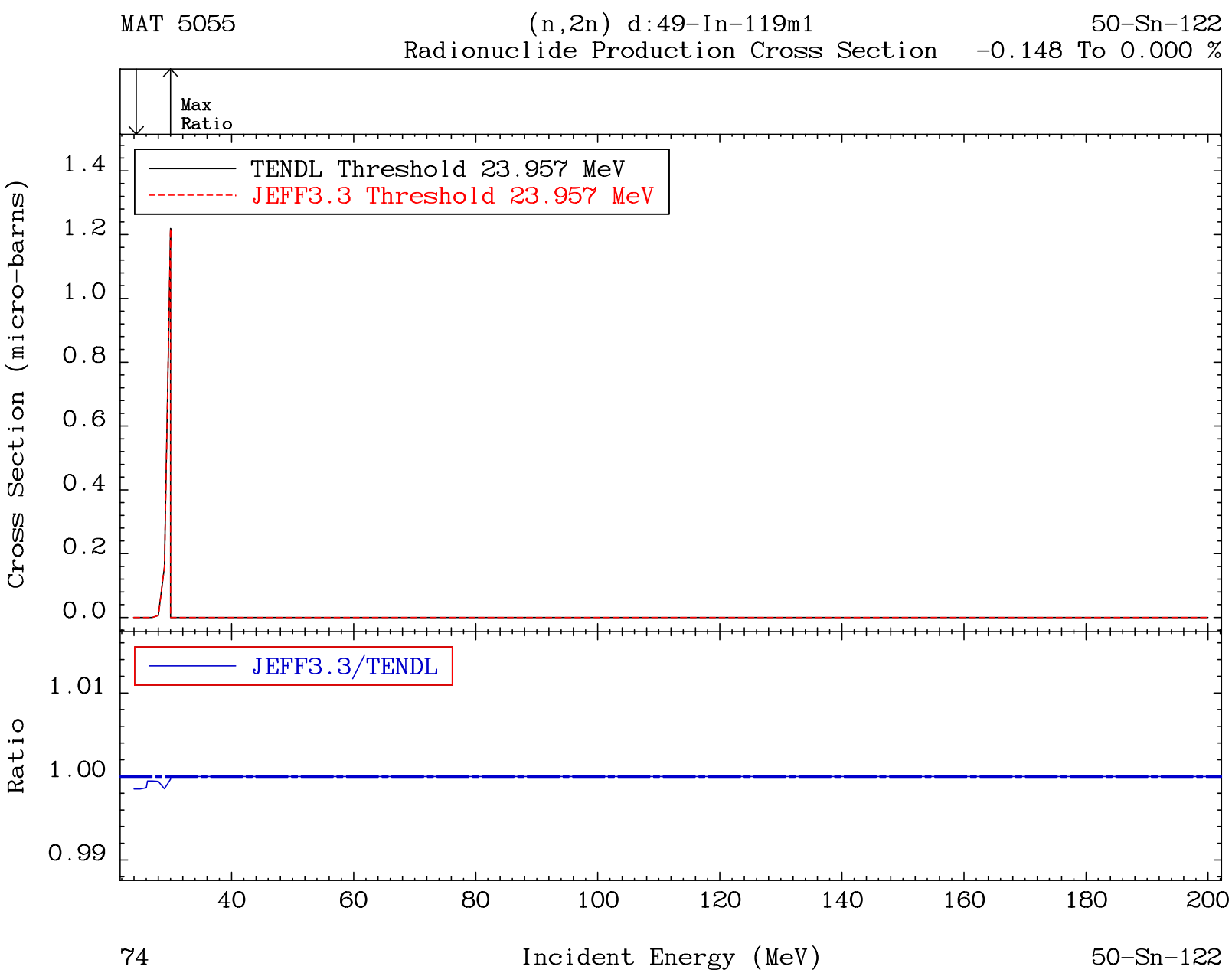

MAT 5055
Dpa total (eV-barns)
Cross Section
50-Sn-122
-99.87 To 543.6 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
50-Sn-122

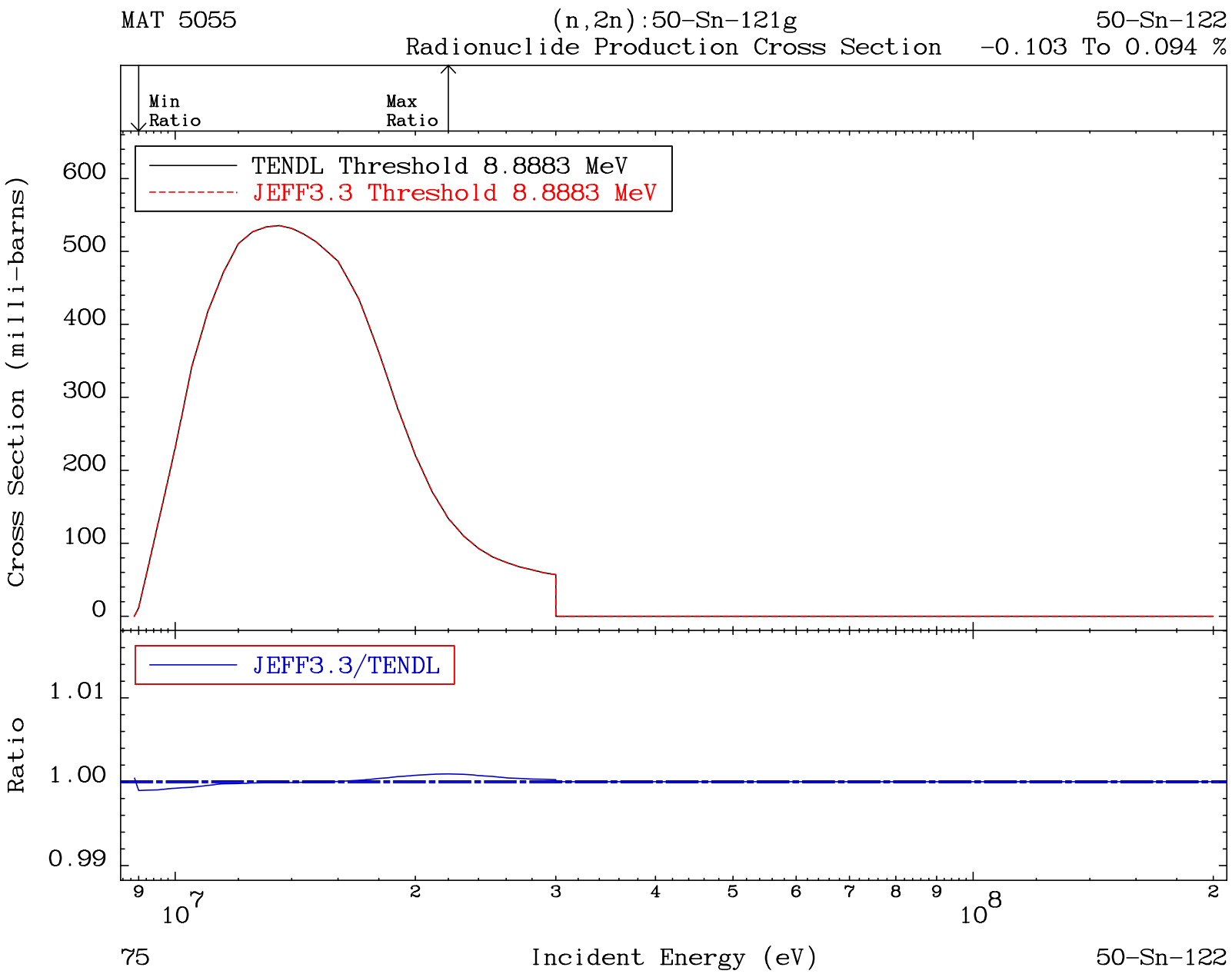

MAT 5055
Dpa elastic (mt2)
Cross Section
50-Sn-122
-86.04 To 636.6 %
Max Ratio
Min Ratio
TENDL Threshold 750.00 eV
JEFF3.3 Threshold 812.50 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
50-Sn-122

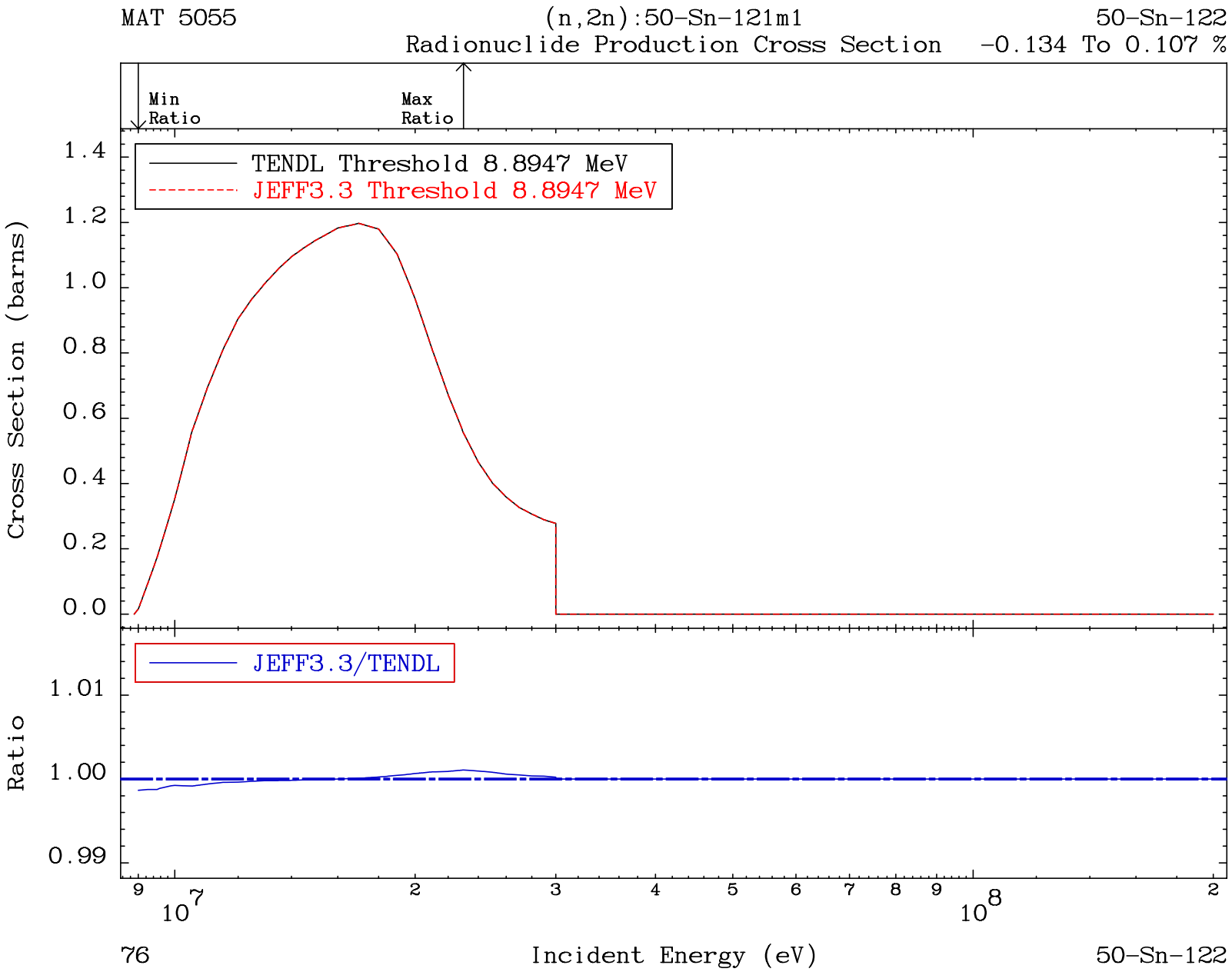

MAT 5055
Dpa inelastic (mt51-91)
Cross Section
50-Sn-122
-0.017 To 0.080 %
Min Ratio
Max Ratio
TENDL Threshold 1.1500 MeV
JEFF3.3 Threshold 1.1500 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
71
50-Sn-122

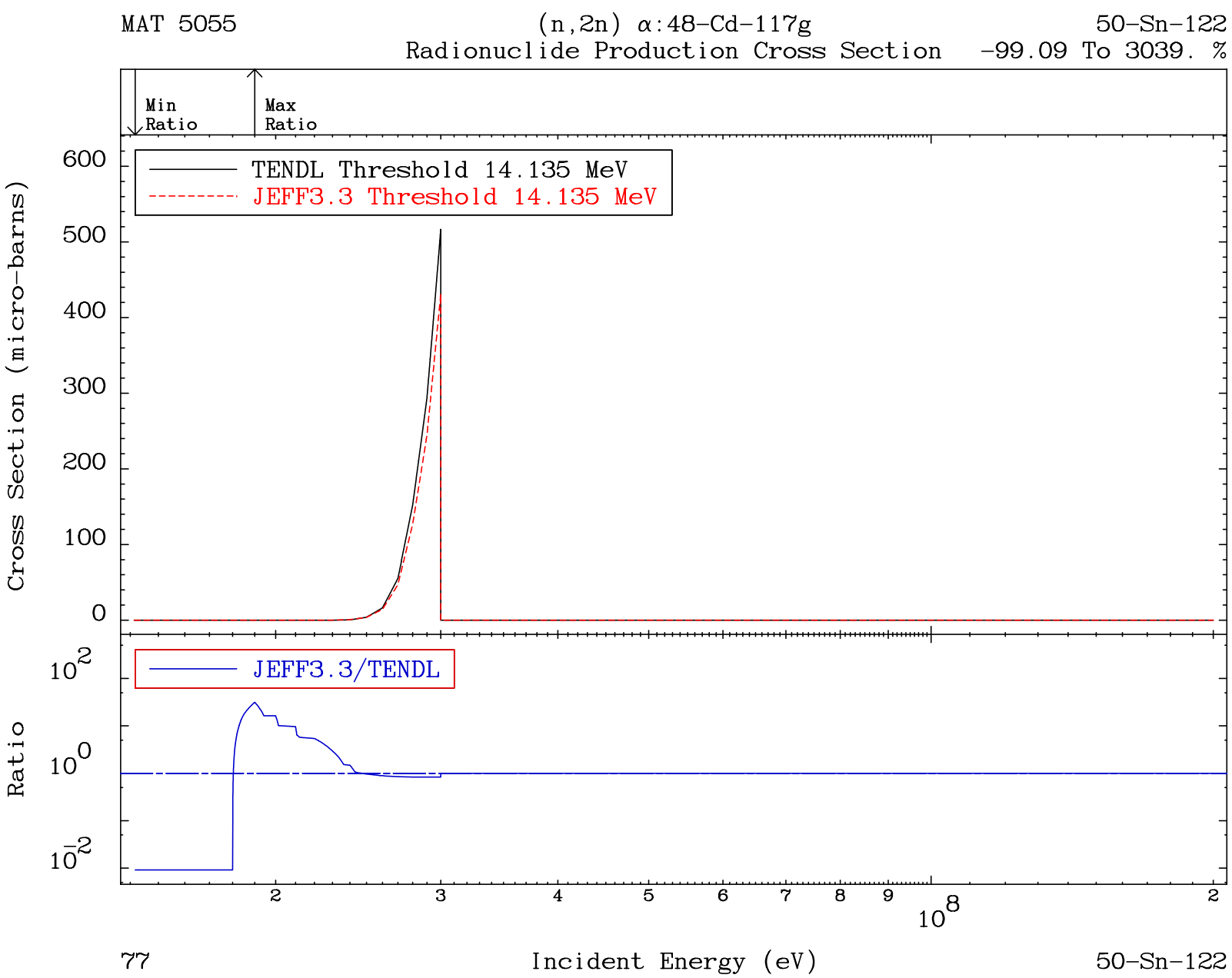

MAT 5055
Dpa disappearance (mt102 -120)
Cross Section
50-Sn-122
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
50-Sn-122

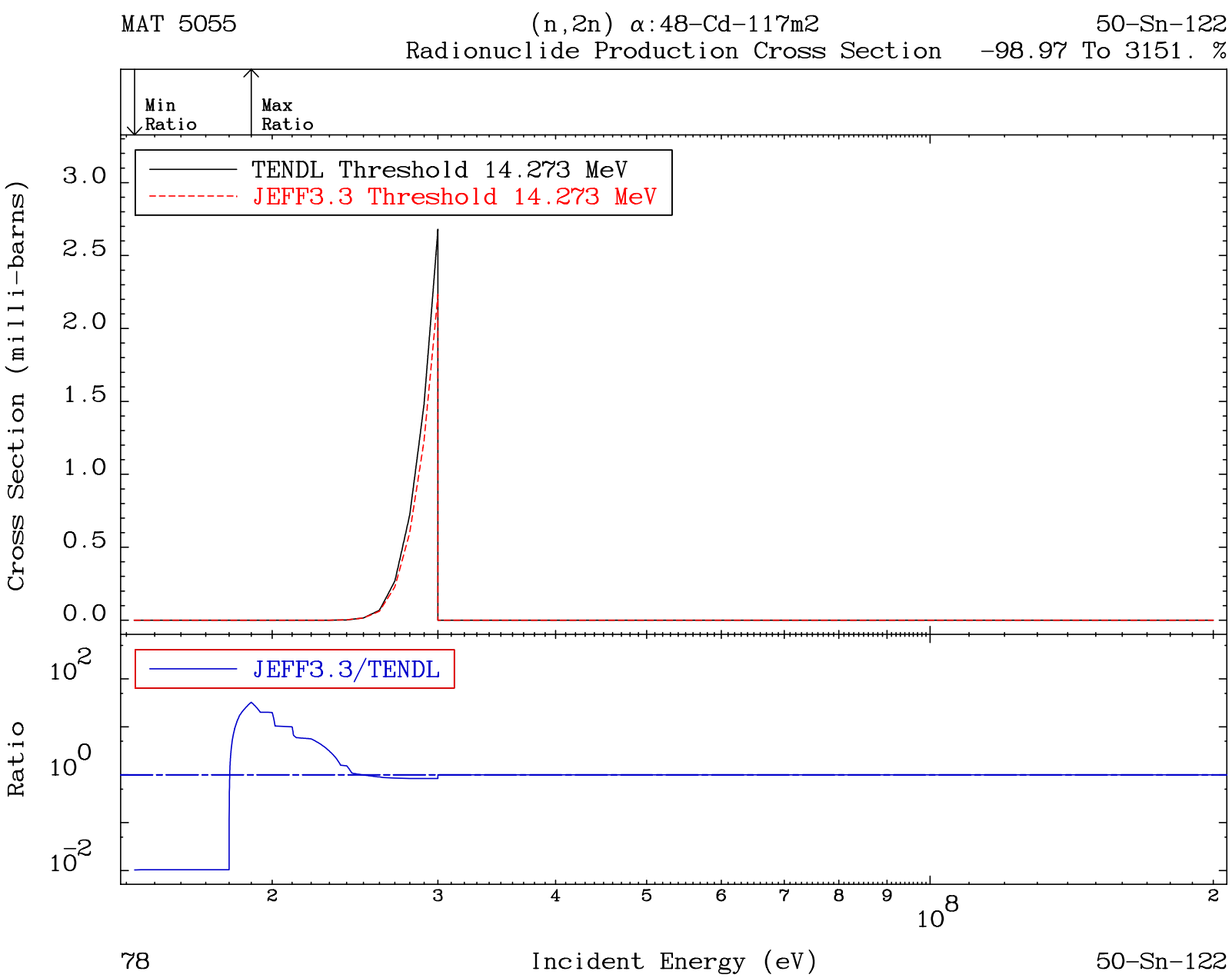

MAT 5055
(n,2n) d:49-In-119g
50-Sn-122
Radionuclide Production Cross Section
-0.265 To 0.000 %
Max
Ratio
TENDL Threshold 23.643 MeV
JEFF3.3 Threshold 23.643 MeV
Cross Section (micro-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
73
Incident Energy (MeV)
50-Sn-122

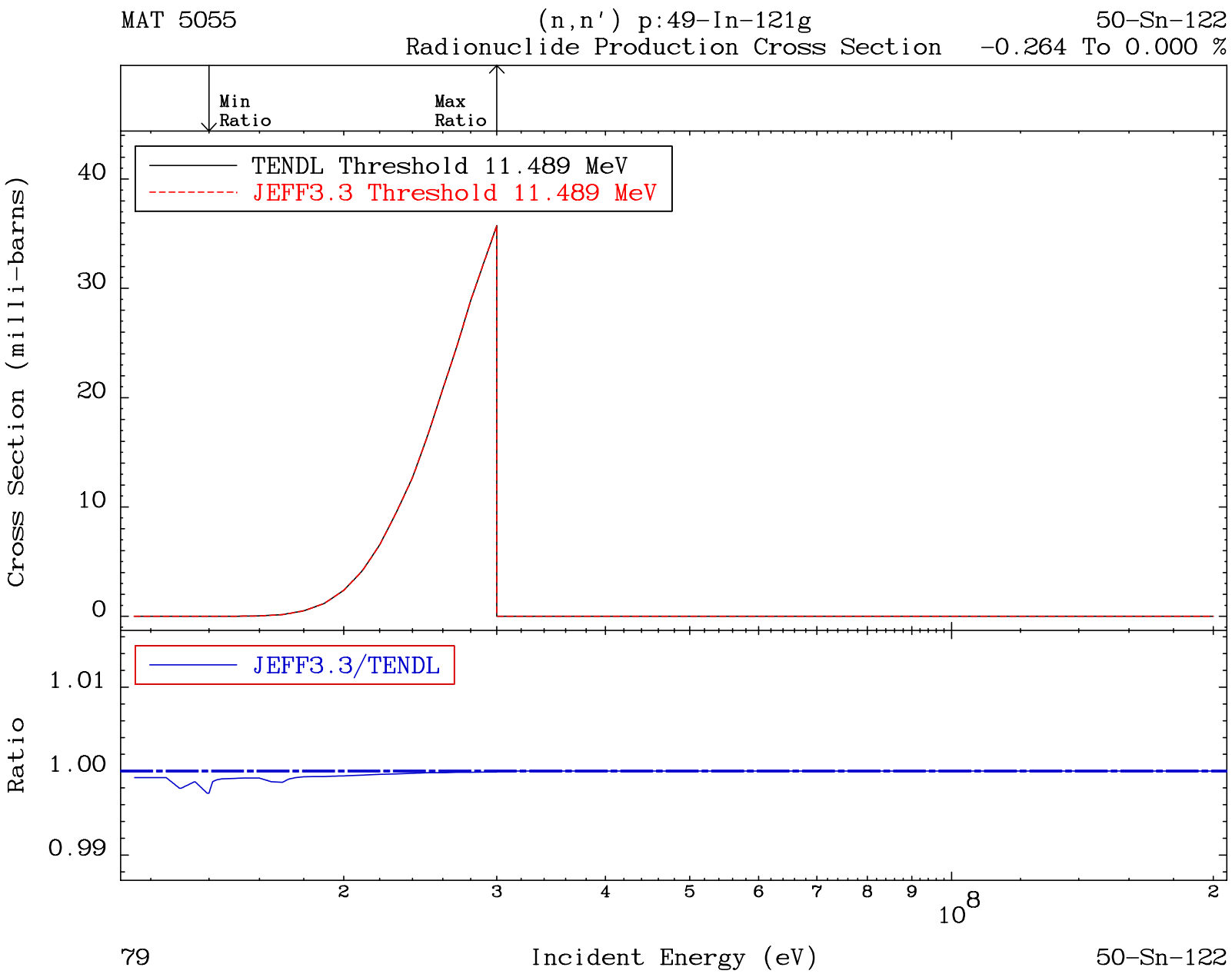

MAT 5055
(n,2n) d:49-In-119m1
50-Sn-122
Radionuclide Production Cross Section
-0.148 To 0.000 %
Max
Ratio
TENDL Threshold 23.957 MeV
JEFF3.3 Threshold 23.957 MeV
Cross Section (micro-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
74
Incident Energy (MeV)
50-Sn-122

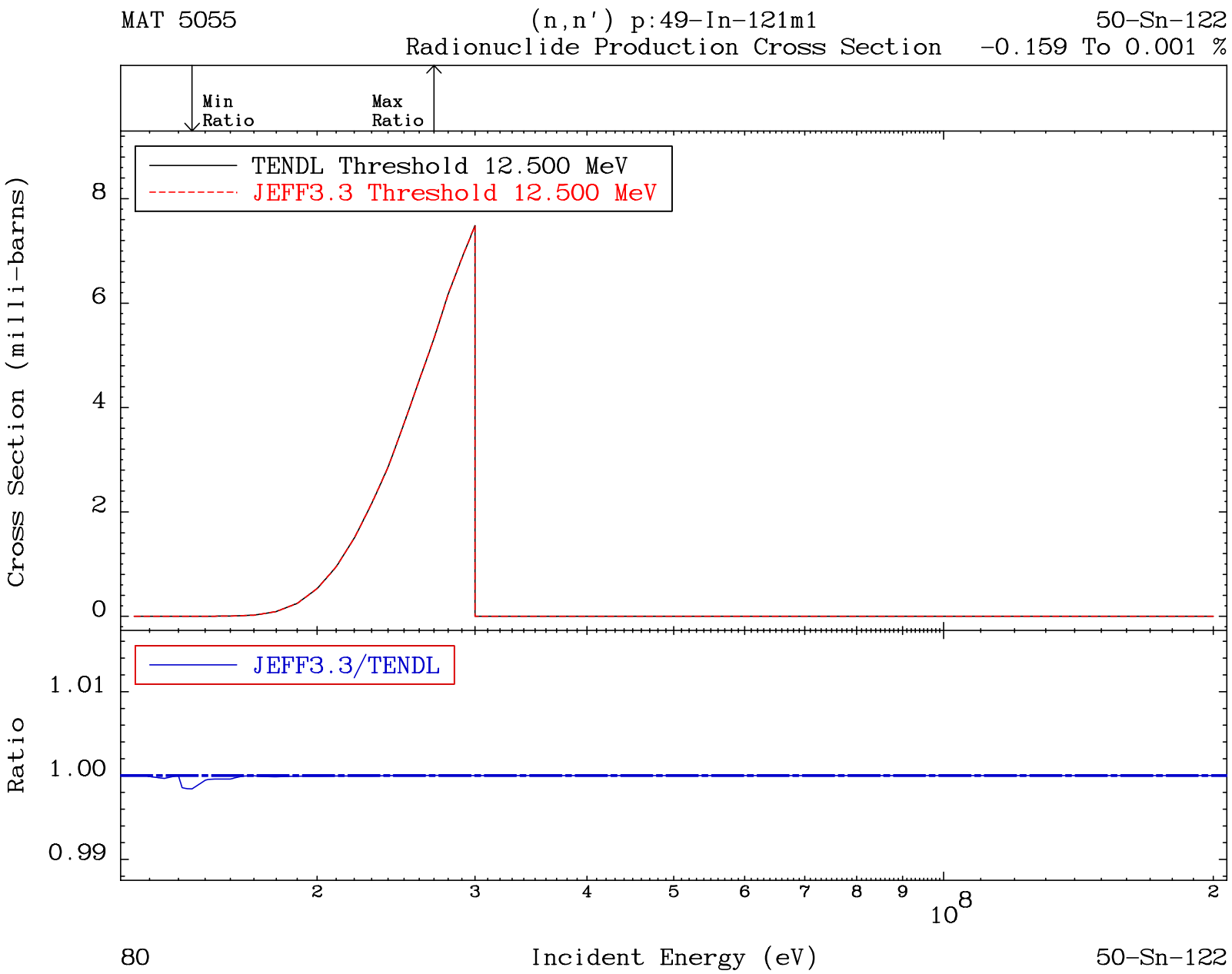

MAT 5055
(n,2n):50-Sn-121g
50-Sn-122
Radionuclide Production Cross Section
-0.103 To 0.094 %
Min Ratio
Max Ratio
TENDL Threshold 8.8883 MeV
JEFF3.3 Threshold 8.8883 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
75
Incident Energy (eV)
50-Sn-122

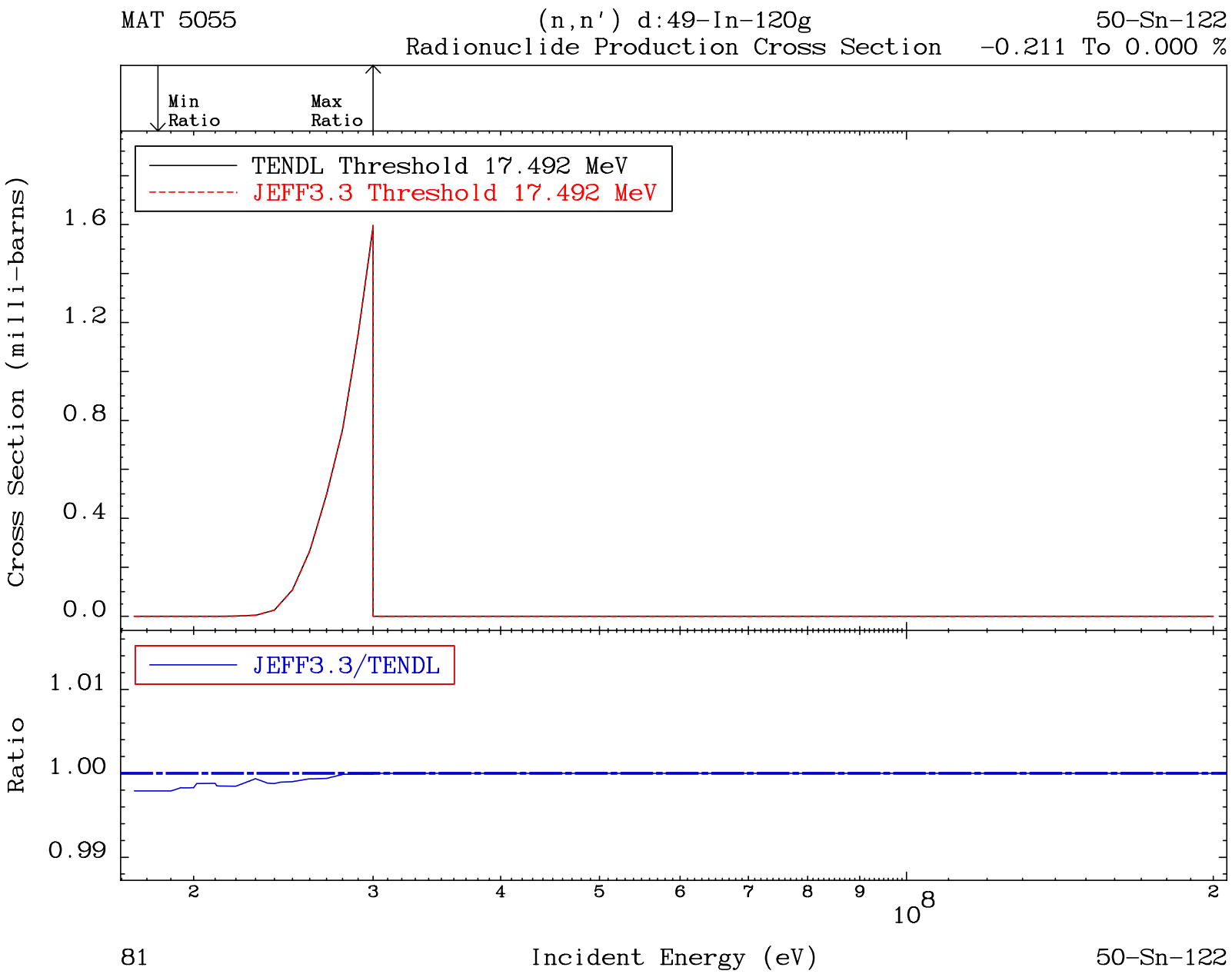

MAT 5055
(n,2n):50-Sn-121m1
50-Sn-122
Radionuclide Production Cross Section
-0.134 To 0.107 %
Min Ratio
Max Ratio
TENDL Threshold 8.8947 MeV
JEFF3.3 Threshold 8.8947 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
50-Sn-122

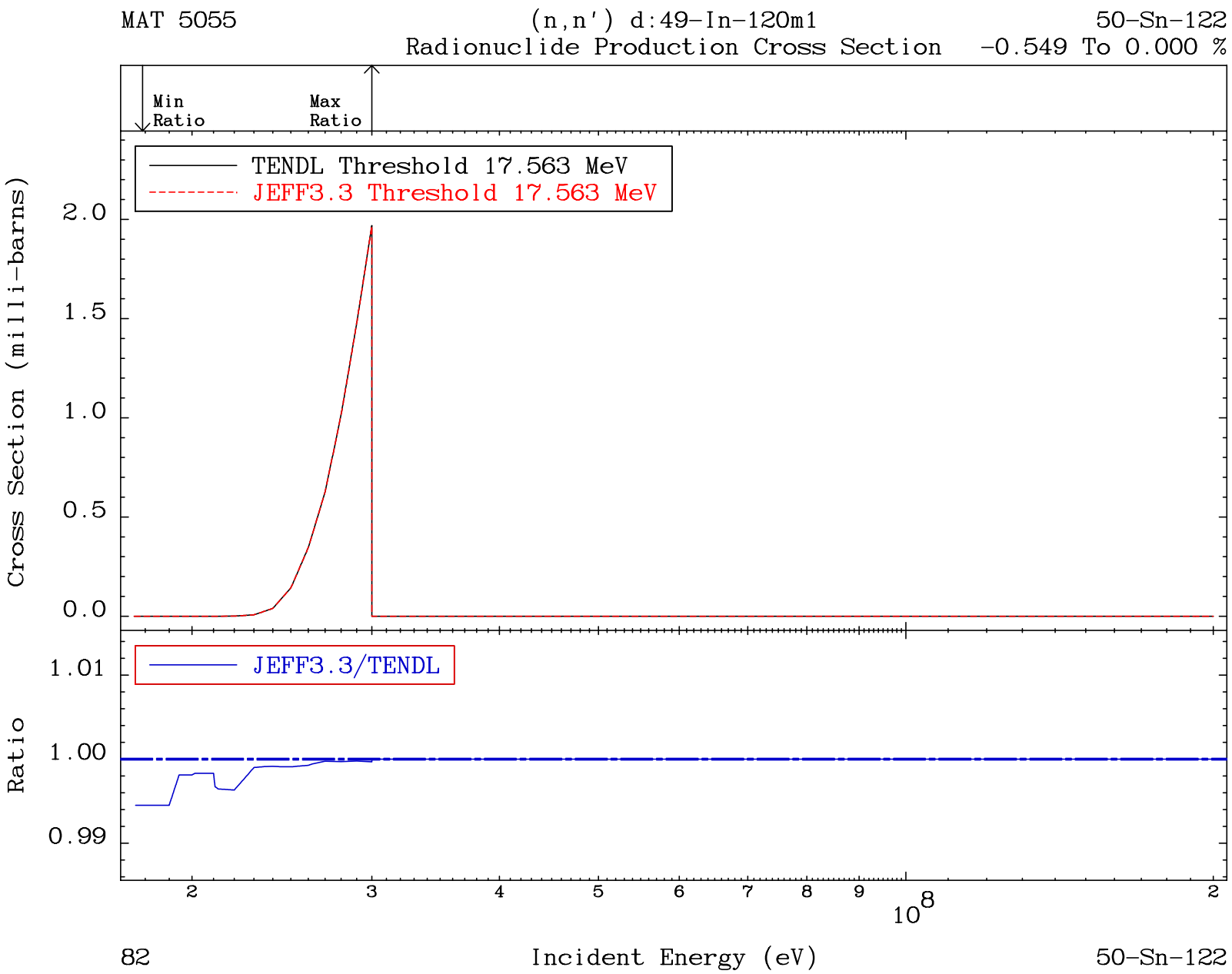

MAT 5055
(n,2n) α:48-Cd-117g
50-Sn-122
Radionuclide Production Cross Section -99.09 To 3039. %
Min Ratio
Max Ratio
TENDL Threshold 14.135 MeV
JEFF3.3 Threshold 14.135 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
50-Sn-122

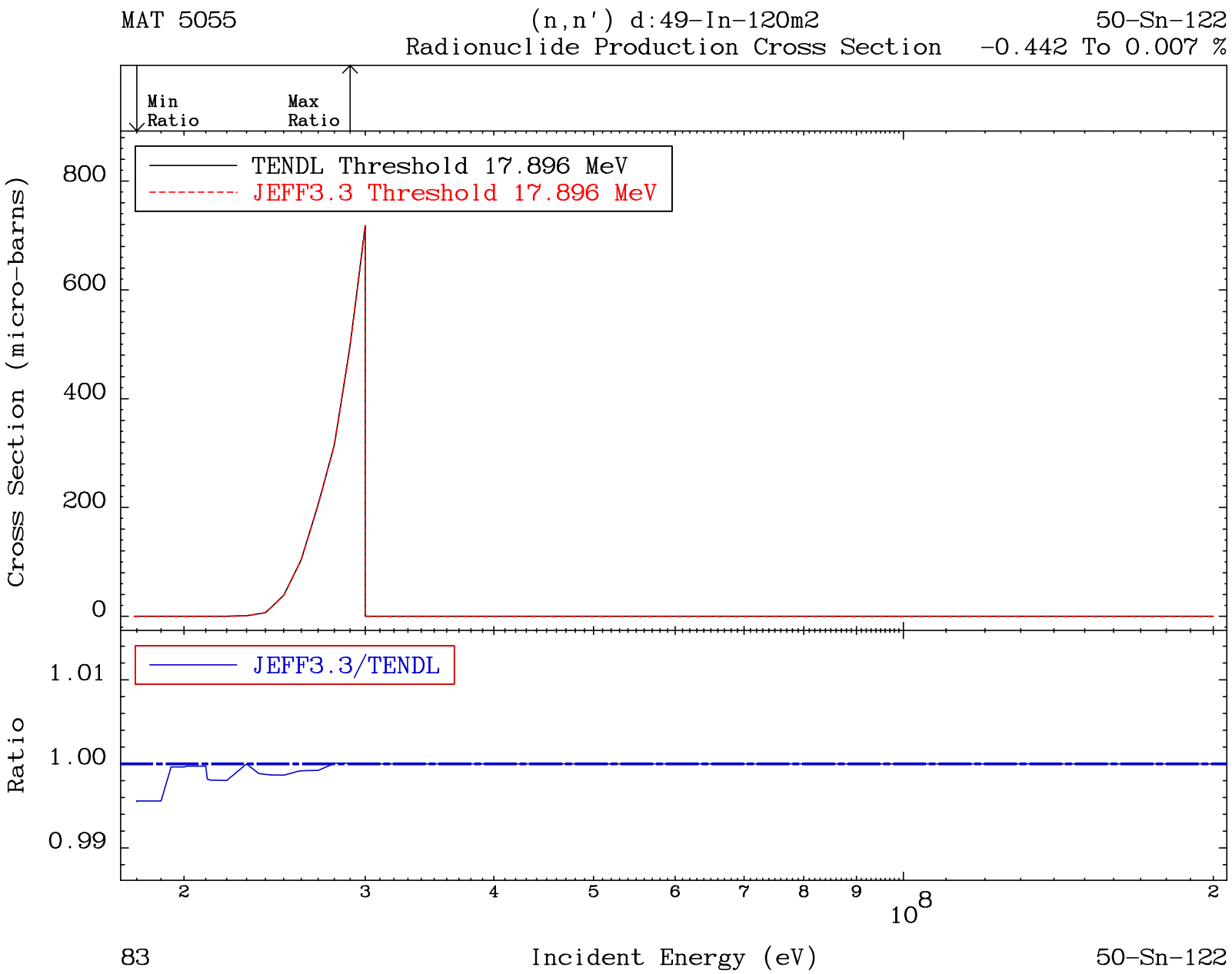

MAT 5055
(n,2n) α:48-Cd-117m2
50-Sn-122
Radionuclide Production Cross Section -98.97 To 3151. %
Min Ratio
Max Ratio
TENDL Threshold 14.273 MeV
JEFF3.3 Threshold 14.273 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
50-Sn-122

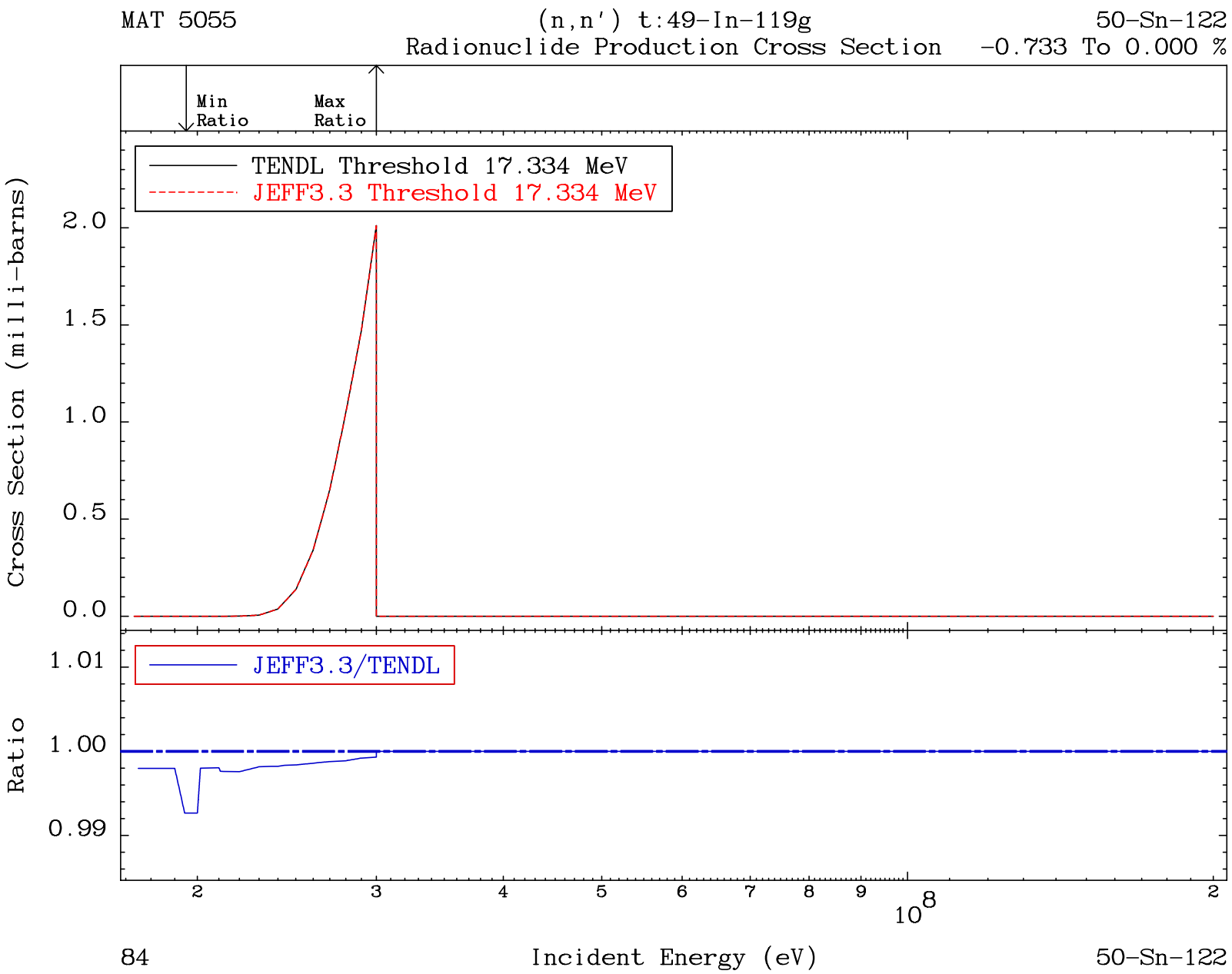

MAT 5055
(n,n') p:49-In-121g
50-Sn-122
Radionuclide Production Cross Section
-0.264 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 11.489 MeV
JEFF3.3 Threshold 11.489 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
50-Sn-122

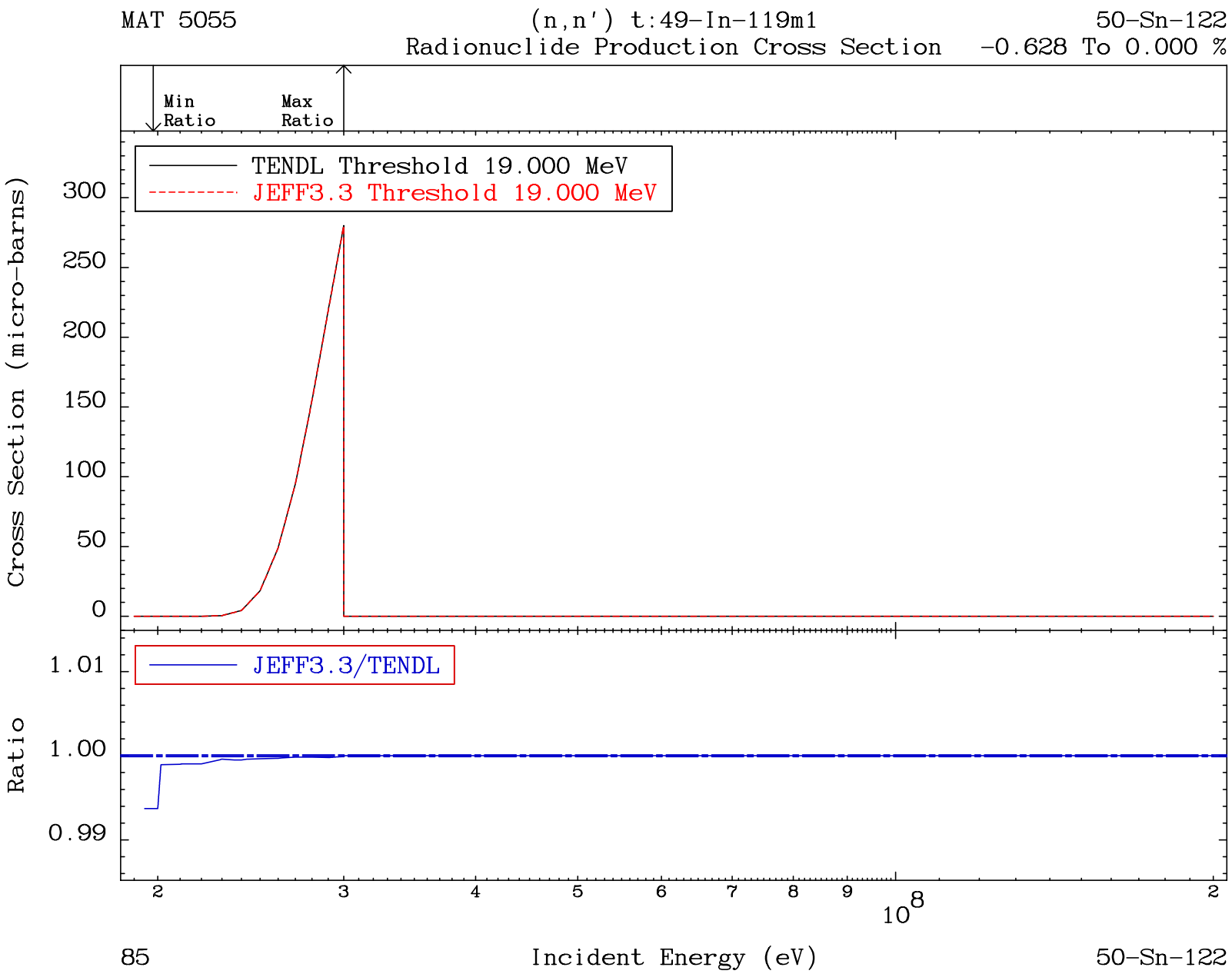

MAT 5055
(n,n') p:49-In-121m1
50-Sn-122
Radionuclide Production Cross Section
-0.159 To 0.001 %
Min Ratio
Max Ratio
TENDL Threshold 12.500 MeV
JEFF3.3 Threshold 12.500 MeV
Cross Section (milli-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
50-Sn-122

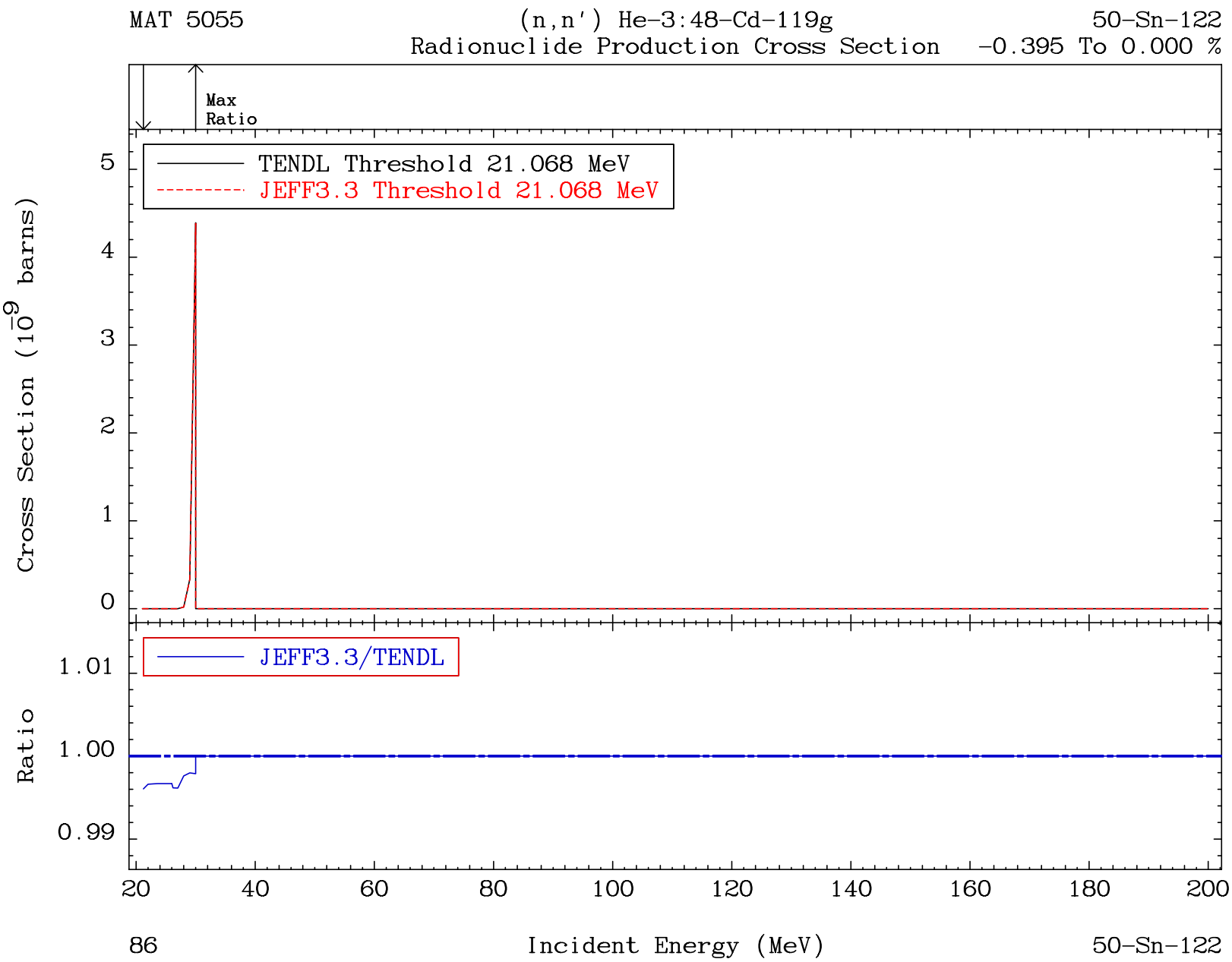

MAT 5055
(n,n') d:49-In-120g
50-Sn-122
Radionuclide Production Cross Section
-0.211 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 17.492 MeV
JEFF3.3 Threshold 17.492 MeV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
50-Sn-122

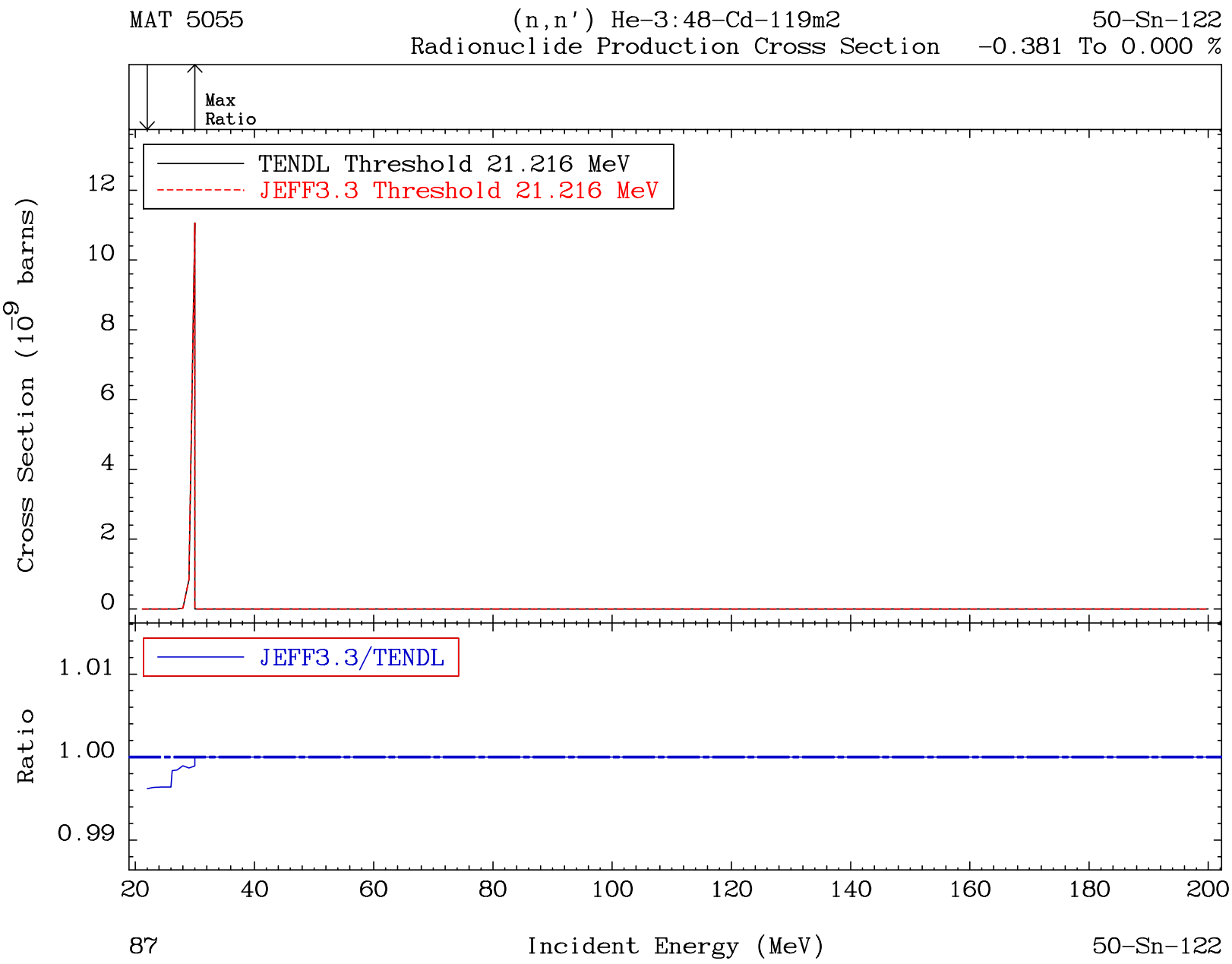

MAT 5055
(n,n') d:49-In-120m1
50-Sn-122
Radionuclide Production Cross Section
-0.549 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 17.563 MeV
JEFF3.3 Threshold 17.563 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
50-Sn-122

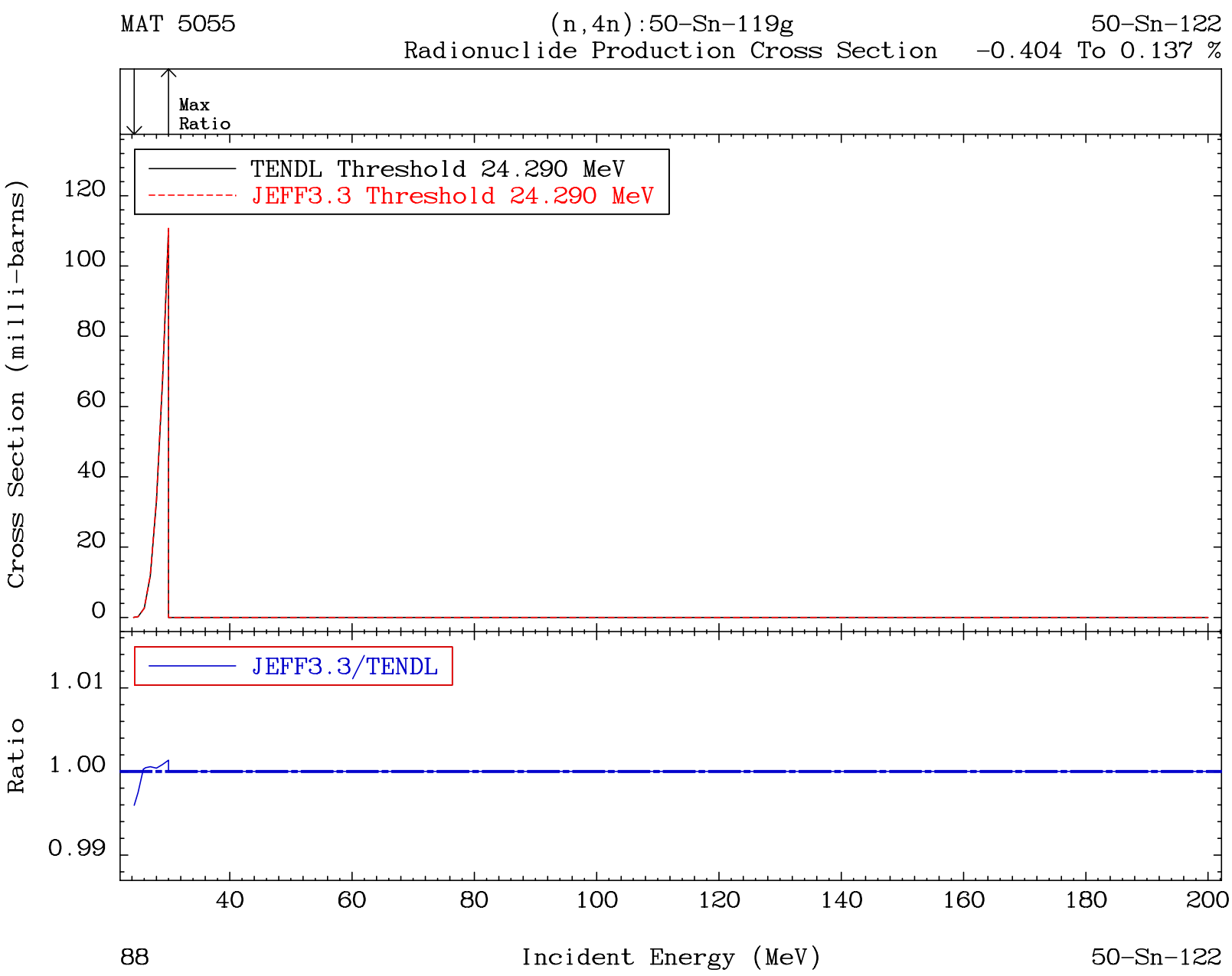

MAT 5055
(n,n') d:49-In-120m2
50-Sn-122
Radionuclide Production Cross Section
-0.442 To 0.007 %
Min Ratio
Max Ratio
TENDL Threshold 17.896 MeV
JEFF3.3 Threshold 17.896 MeV
Cross Section (micro-barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
50-Sn-122

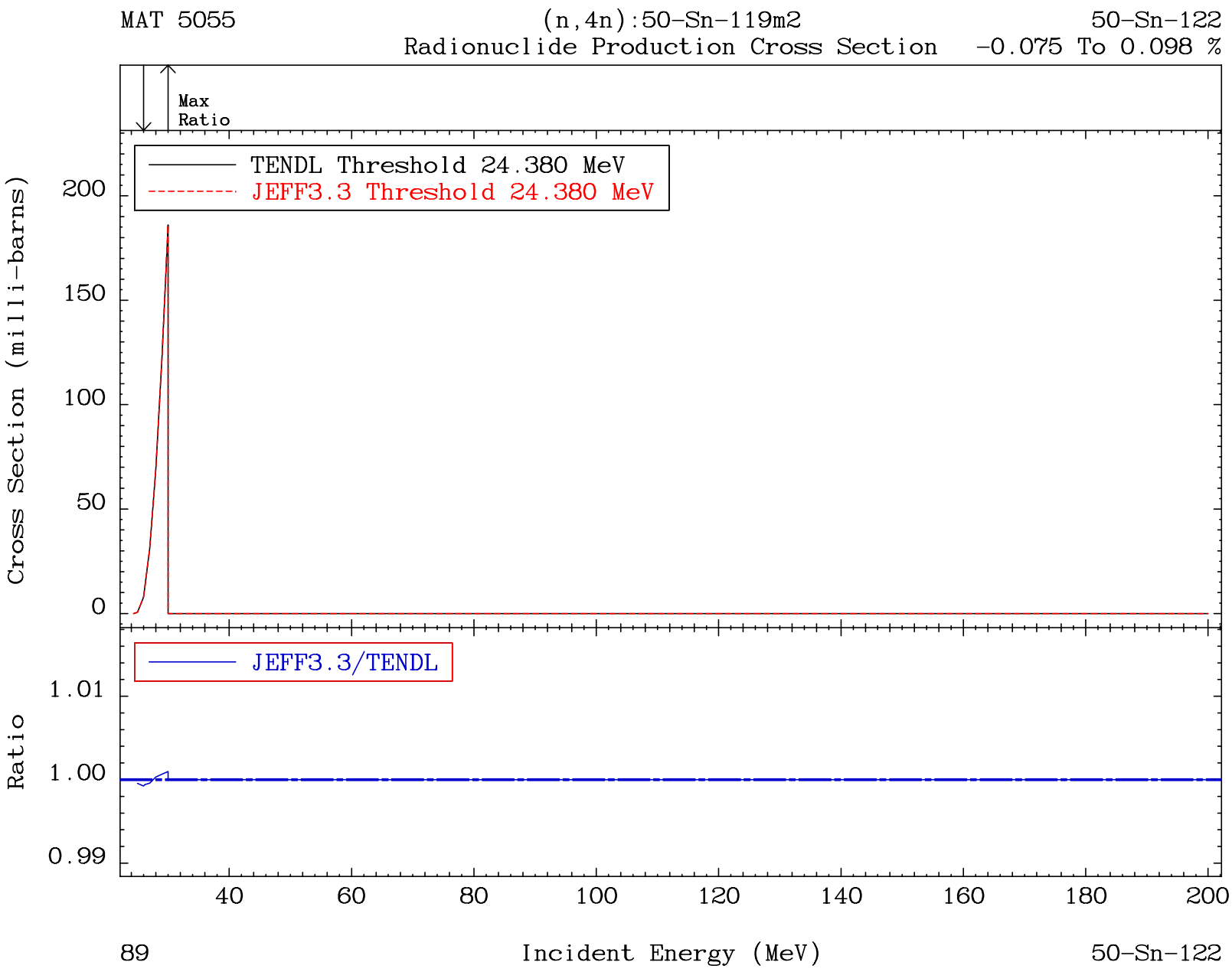

MAT 5055
(n,n') t:49-In-119g
50-Sn-122
Radionuclide Production Cross Section
-0.733 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 17.334 MeV
JEFF3.3 Threshold 17.334 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
50-Sn-122

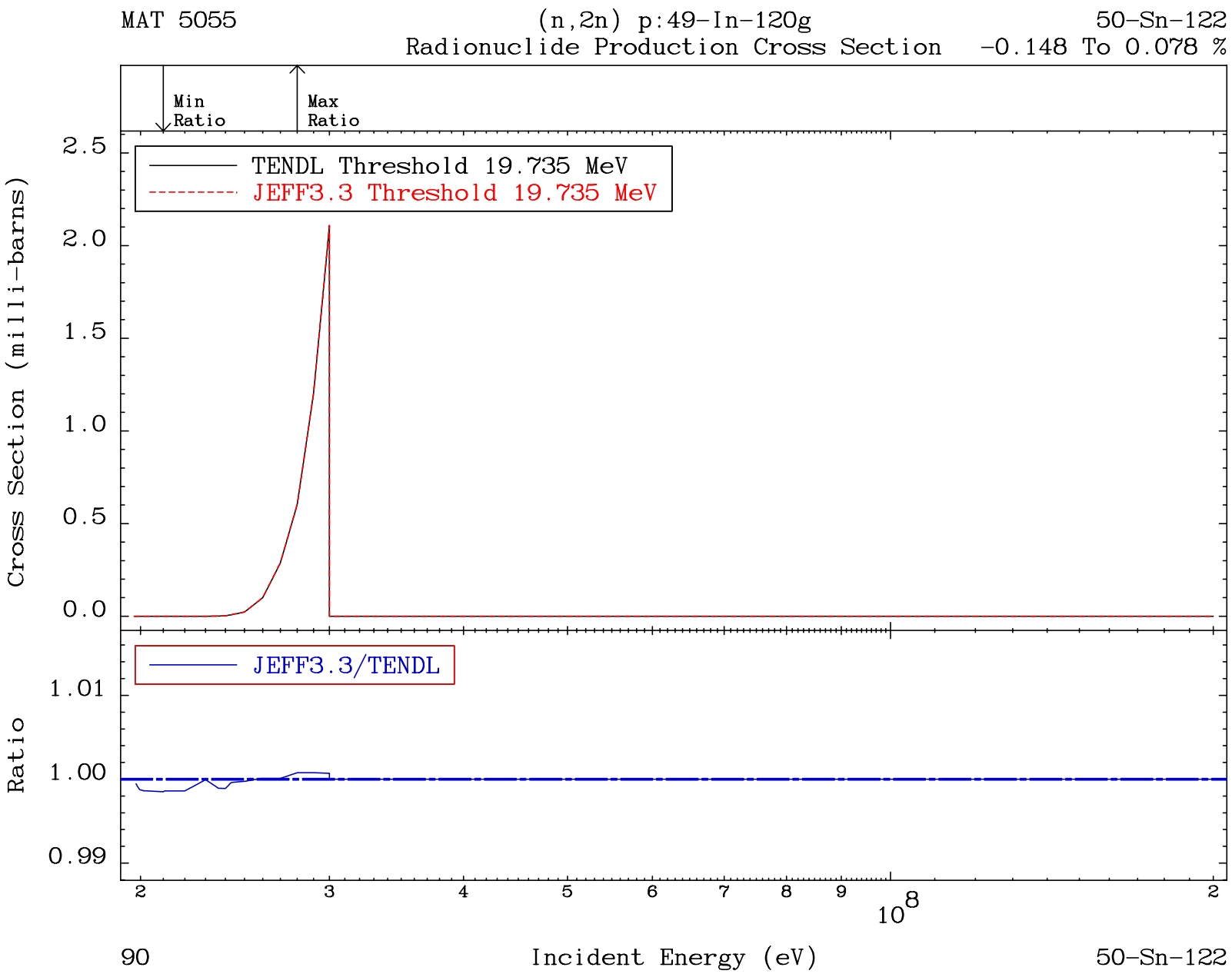

MAT 5055
(n,n') t:49-In-119m1
50-Sn-122
Radionuclide Production Cross Section
-0.628 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 19.000 MeV
JEFF3.3 Threshold 19.000 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
50-Sn-122

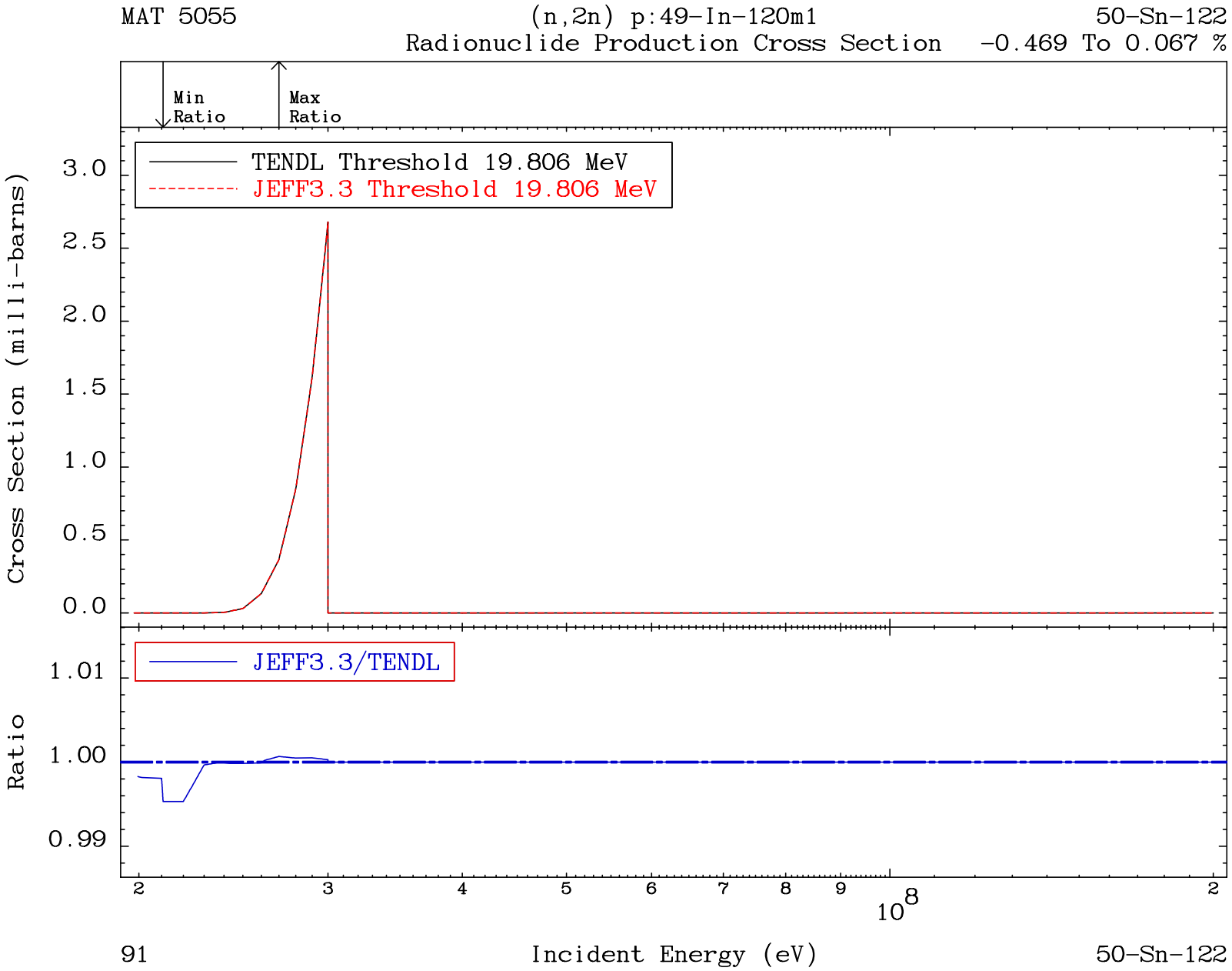

MAT 5055
(n,n') He-3:48-Cd-119g
50-Sn-122
Radionuclide Production Cross Section
-0.395 To 0.000 %
Max
Ratio
TENDL Threshold 21.068 MeV
JEFF3.3 Threshold 21.068 MeV
Cross Section (10^-9 barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
20
40
60
80
100
120
140
160
180
200
86
Incident Energy (MeV)
50-Sn-122

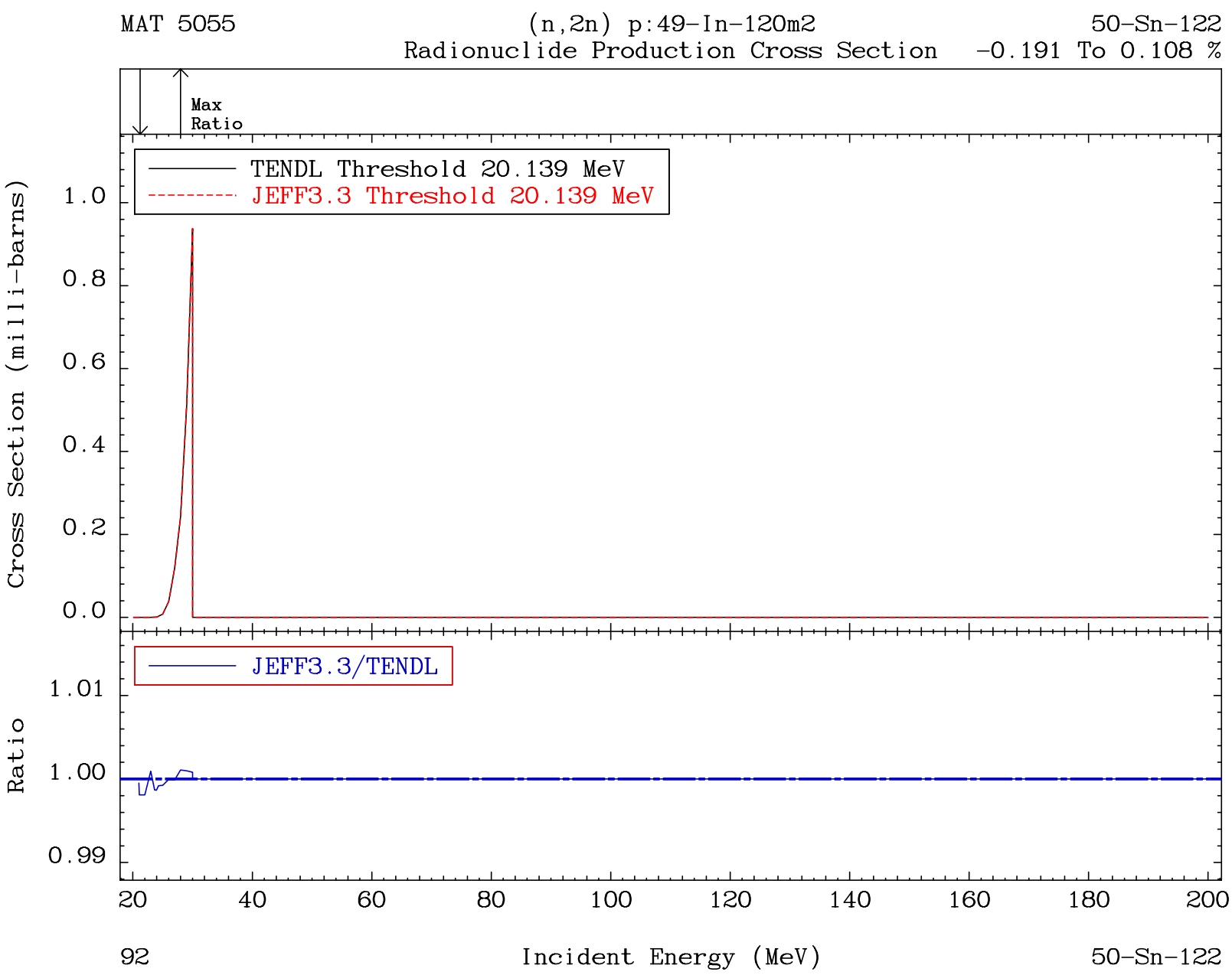

MAT 5055
(n,n') He-3:48-Cd-119m2
50-Sn-122
Radionuclide Production Cross Section
-0.381 To 0.000 %
Max
Ratio
TENDL Threshold 21.216 MeV
JEFF3.3 Threshold 21.216 MeV
Cross Section (10-9 barns)
0
2
4
6
8
10
12
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
20
40
60
80
100
120
140
160
180
200
87
Incident Energy (MeV)
50-Sn-122

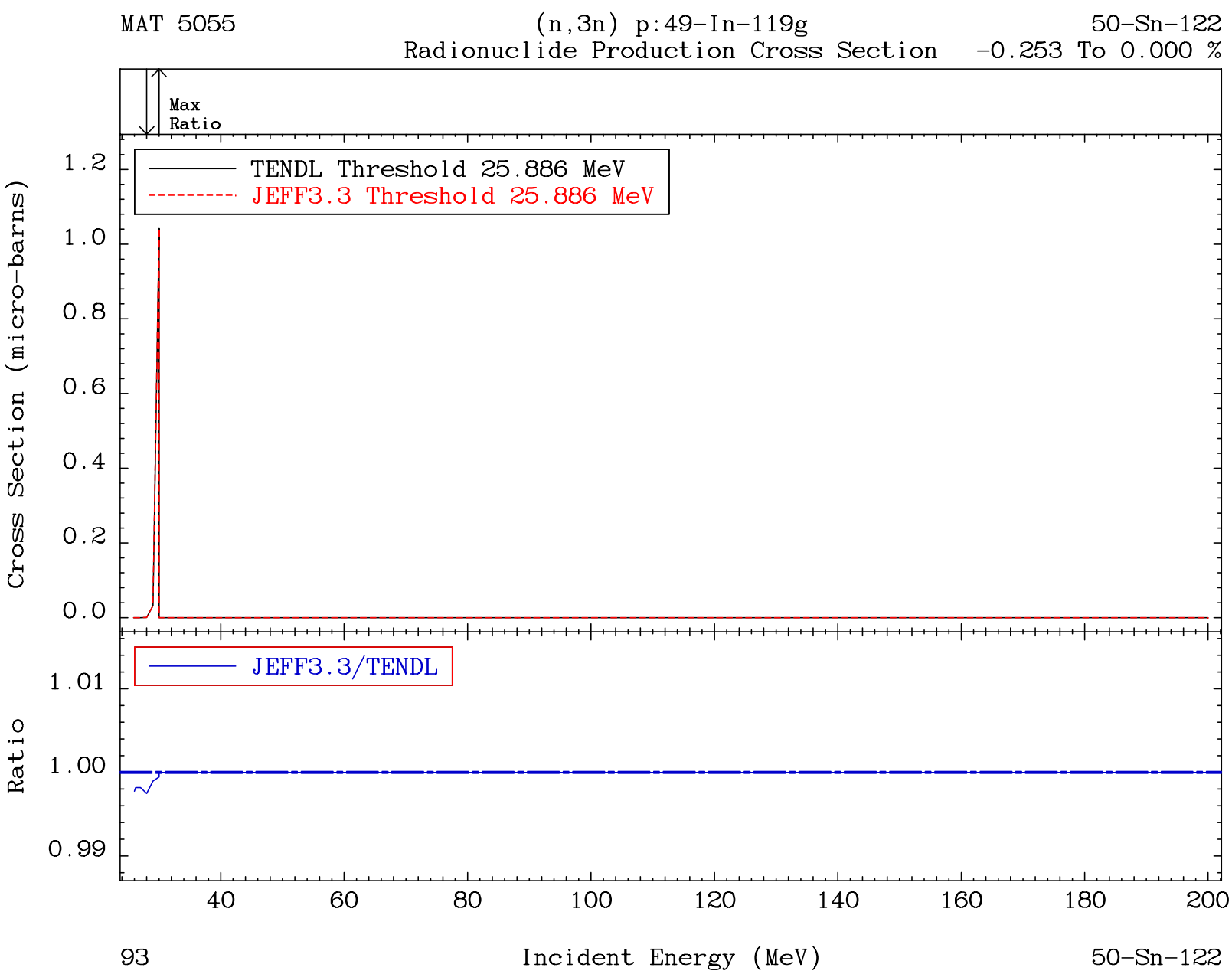

MAT 5055
(n,4n):50-Sn-119g
50-Sn-122
Radionuclide Production Cross Section
-0.404 To 0.137 %
Max
Ratio
TENDL Threshold 24.290 MeV
JEFF3.3 Threshold 24.290 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
88
Incident Energy (MeV)
50-Sn-122

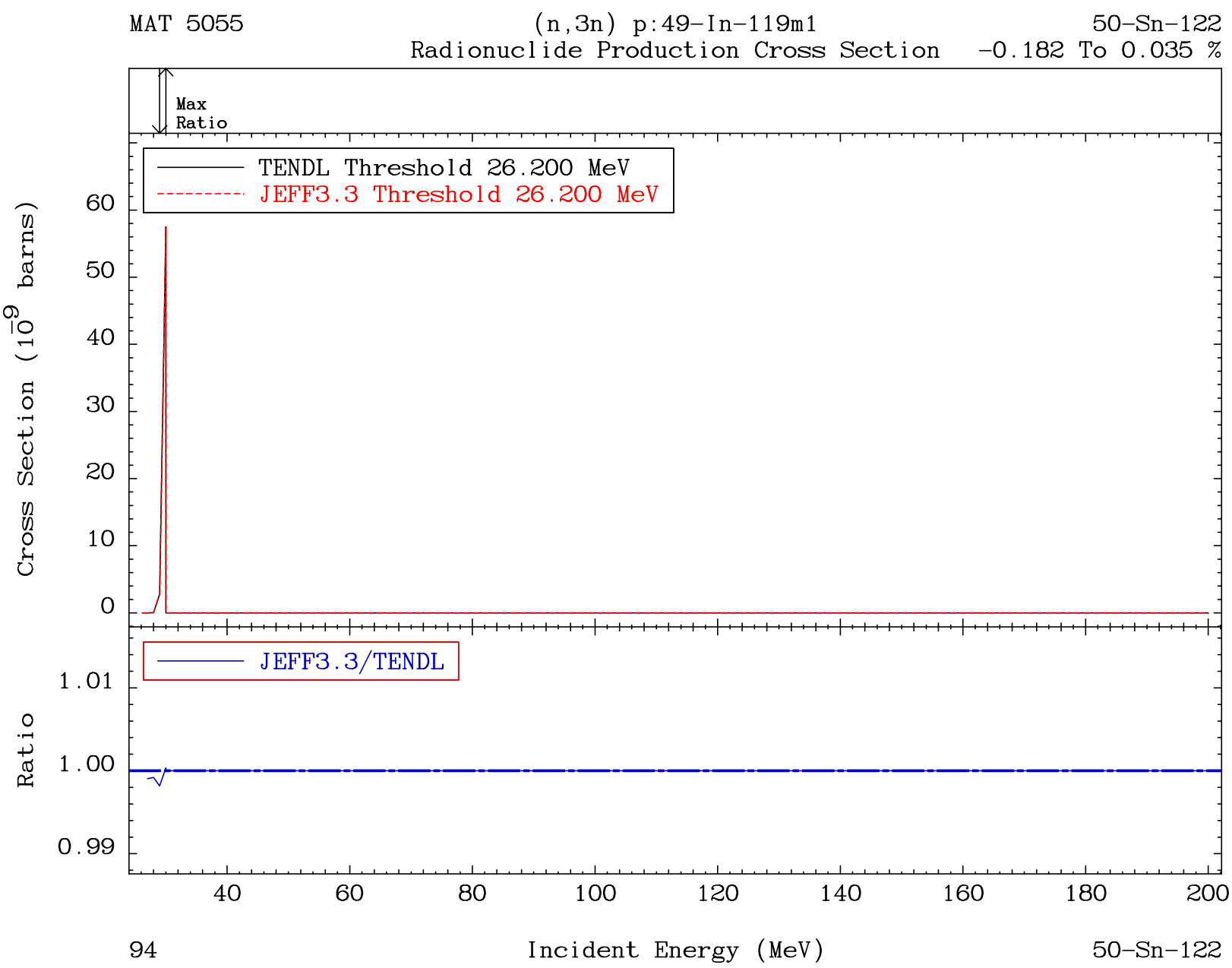

MAT 5055
(n,4n):50-Sn-119m2
50-Sn-122
Radionuclide Production Cross Section
-0.075 To 0.098 %
Max
Ratio
TENDL Threshold 24.380 MeV
JEFF3.3 Threshold 24.380 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
89
Incident Energy (MeV)
50-Sn-122

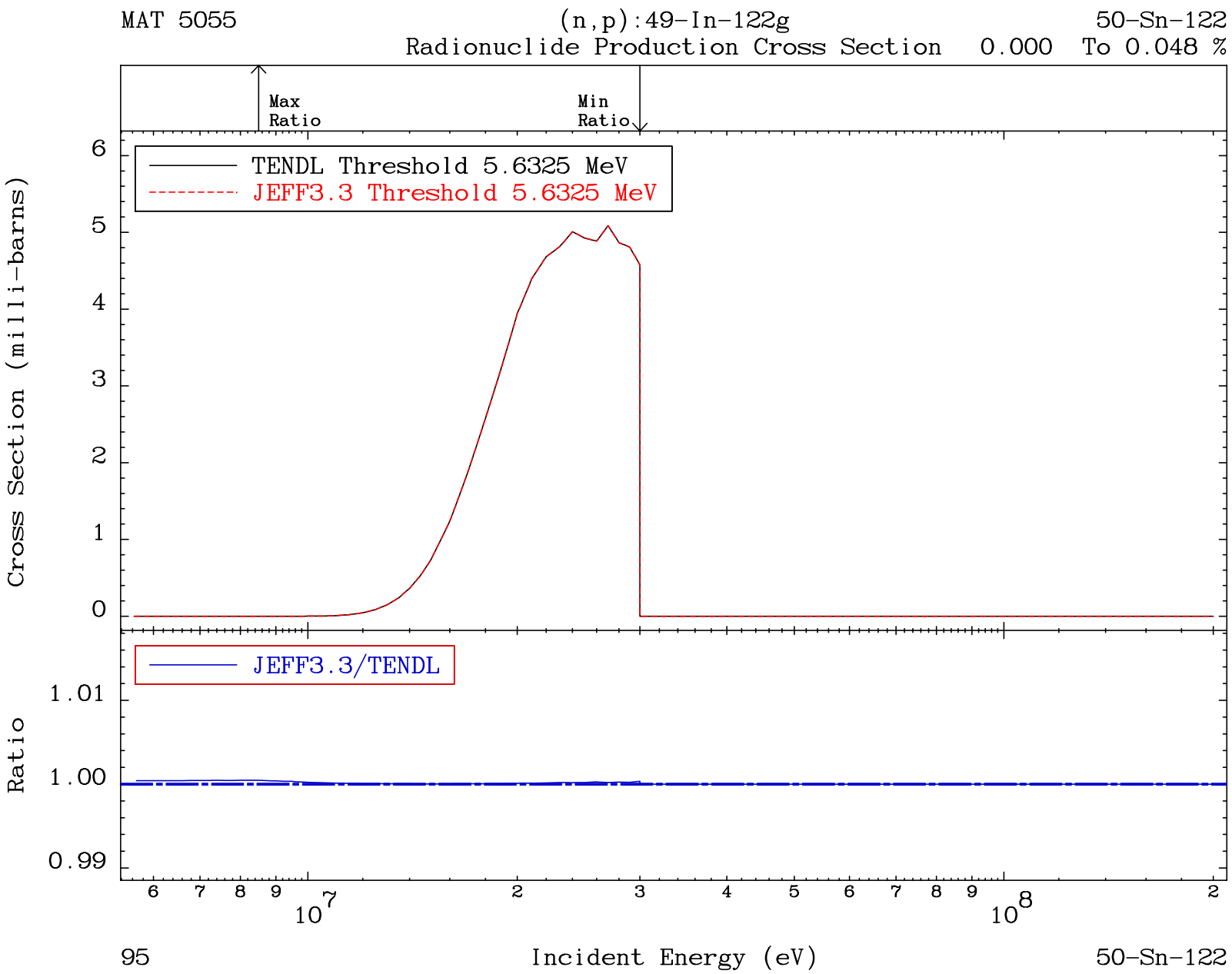

MAT 5055
(n,2n) p:49-In-120g
50-Sn-122
Radionuclide Production Cross Section
-0.148 To 0.078 %
Min Ratio
Max Ratio
TENDL Threshold 19.735 MeV
JEFF3.3 Threshold 19.735 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
50-Sn-122

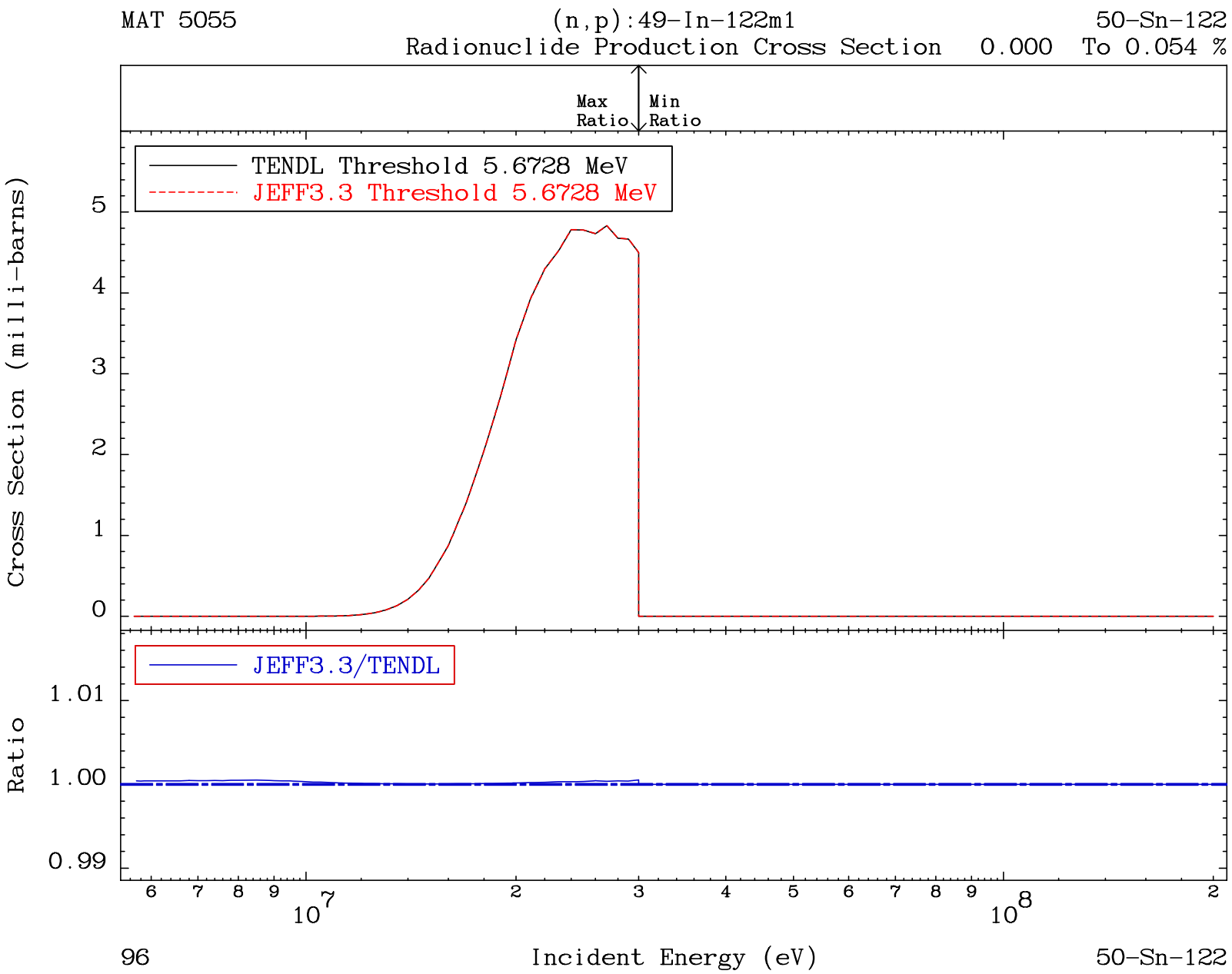

MAT 5055
(n,2n) p:49-In-120m1
50-Sn-122
Radionuclide Production Cross Section
-0.469 To 0.067 %
Min Ratio
Max Ratio
TENDL Threshold 19.806 MeV
JEFF3.3 Threshold 19.806 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
91
Incident Energy (eV)
50-Sn-122

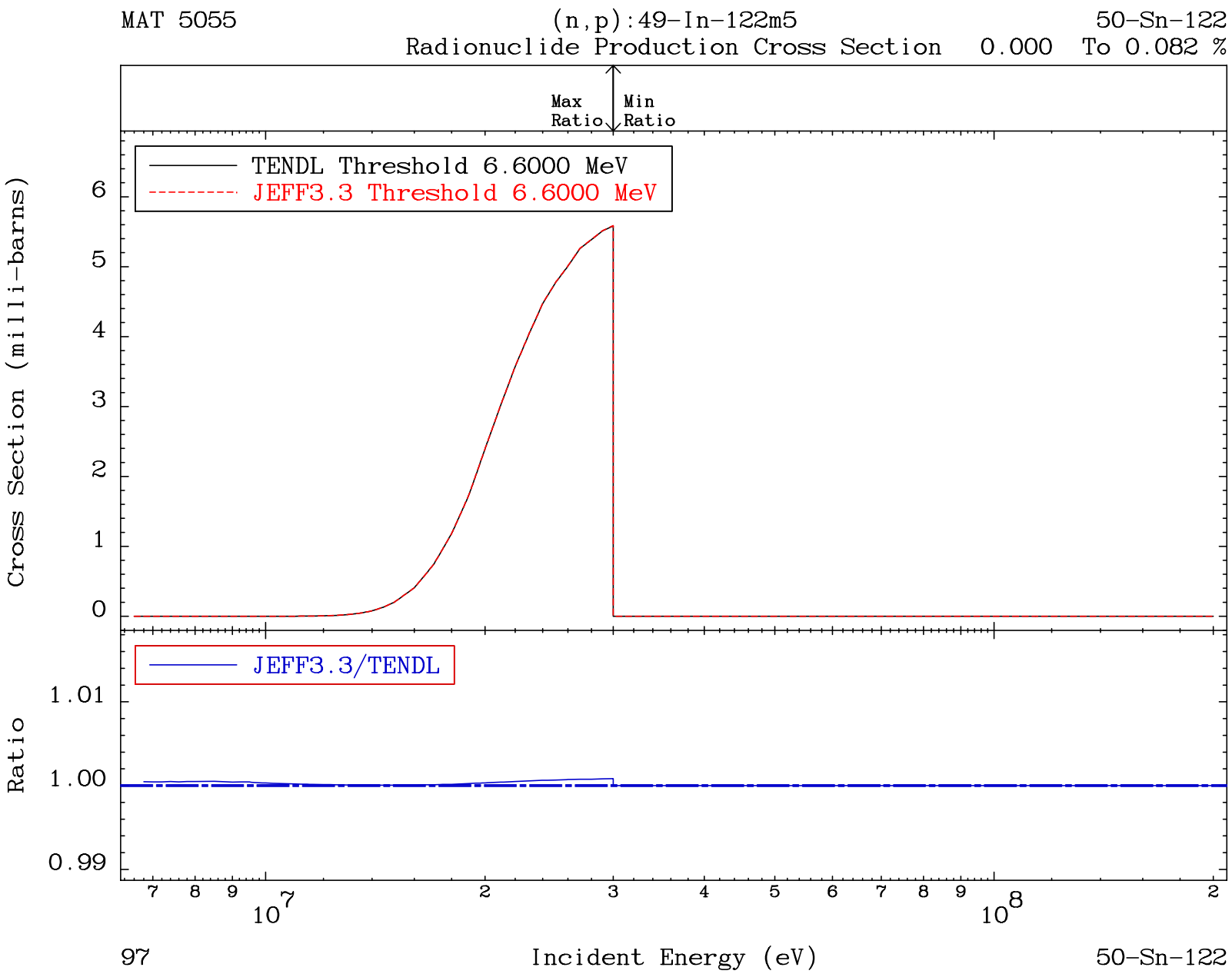

MAT 5055
(n,2n) p:49-In-120m2
50-Sn-122
Radionuclide Production Cross Section -0.191 To 0.108 %
Max
Ratio
TENDL Threshold 20.139 MeV
JEFF3.3 Threshold 20.139 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
92
Incident Energy (MeV)
50-Sn-122

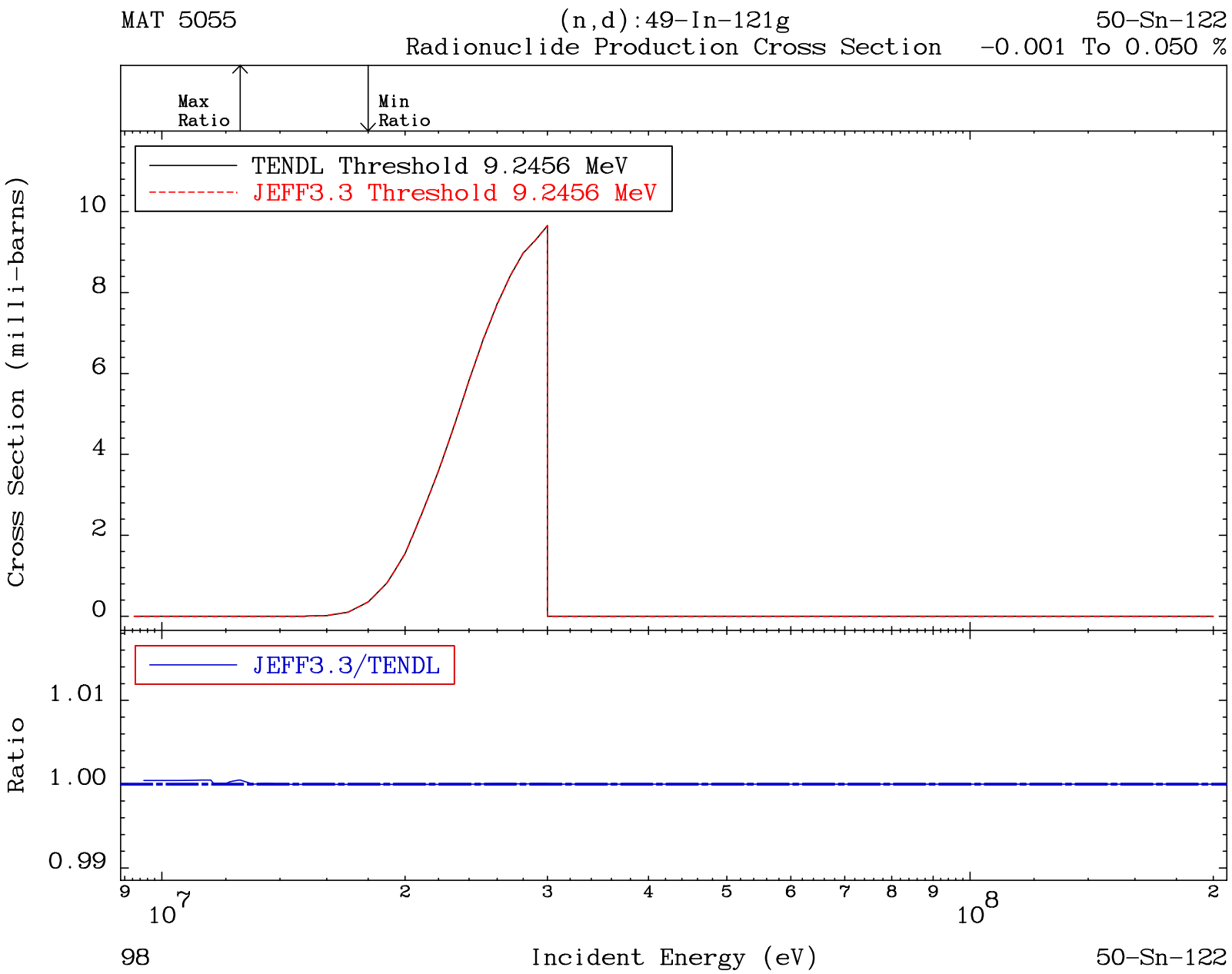

MAT 5055
(n,3n) p:49-In-119g
50-Sn-122
Radionuclide Production Cross Section
-0.253 To 0.000 %
Max
Ratio
TENDL Threshold 25.886 MeV
JEFF3.3 Threshold 25.886 MeV
Cross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
93
Incident Energy (MeV)
50-Sn-122

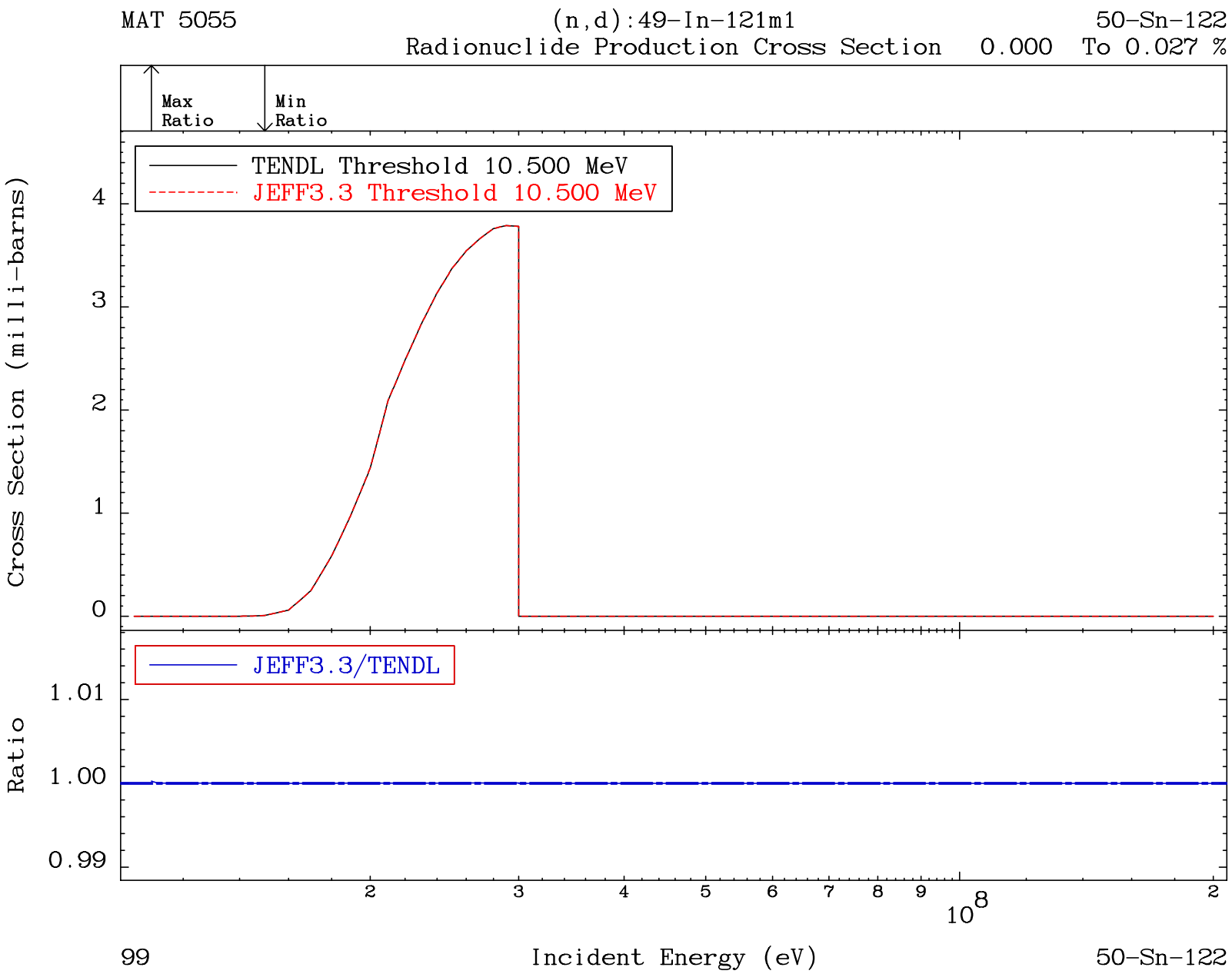

MAT 5055
(n,3n) p:49-In-119m1
50-Sn-122
Radionuclide Production Cross Section
-0.182 To 0.035 %
Max
Ratio
TENDL Threshold 26.200 MeV
JEFF3.3 Threshold 26.200 MeV
Cross Section (10^-9 barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
94
Incident Energy (MeV)
50-Sn-122

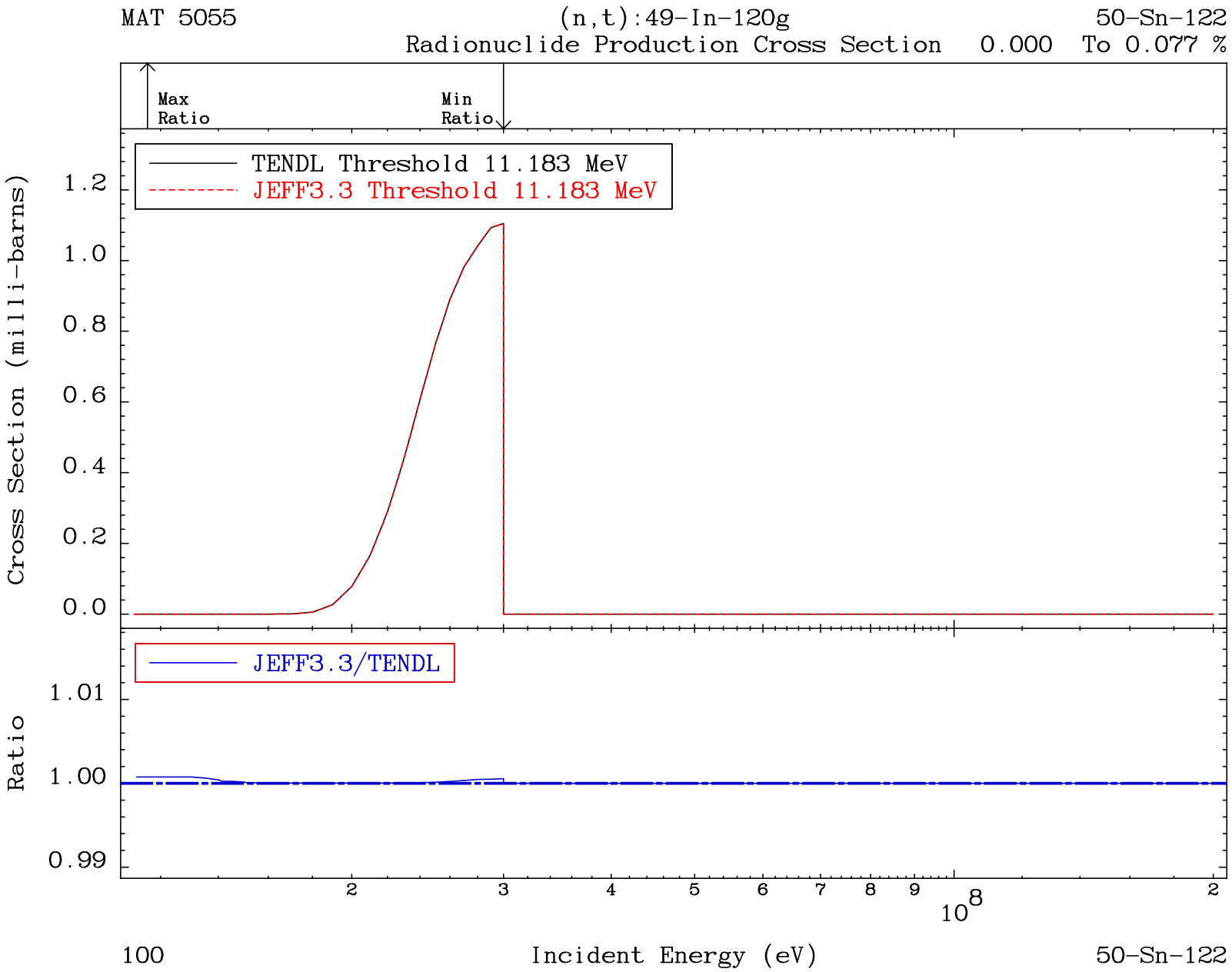

MAT 5055
(n,p):49-In-122g
50-Sn-122
Radionuclide Production Cross Section 0.000 To 0.048 %
Max Ratio
Min Ratio
TENDL Threshold 5.6325 MeV
JEFF3.3 Threshold 5.6325 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
95
50-Sn-122

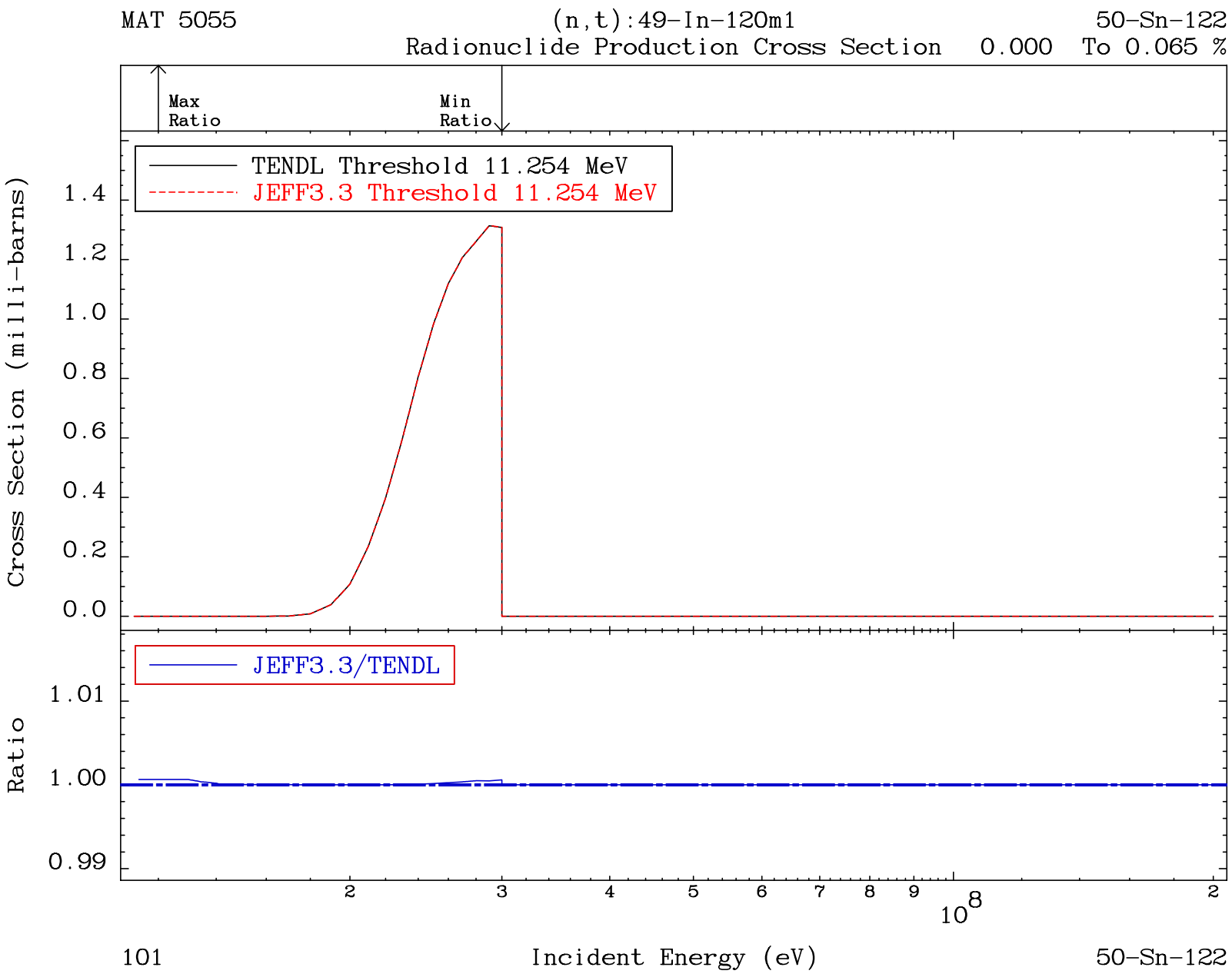

MAT 5055
(n,p):49-In-122m1
50-Sn-122
Radionuclide Production Cross Section 0.000 To 0.054 %
Max Ratio
Min Ratio
TENDL Threshold 5.6728 MeV
JEFF3.3 Threshold 5.6728 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
96
Incident Energy (eV)
50-Sn-122

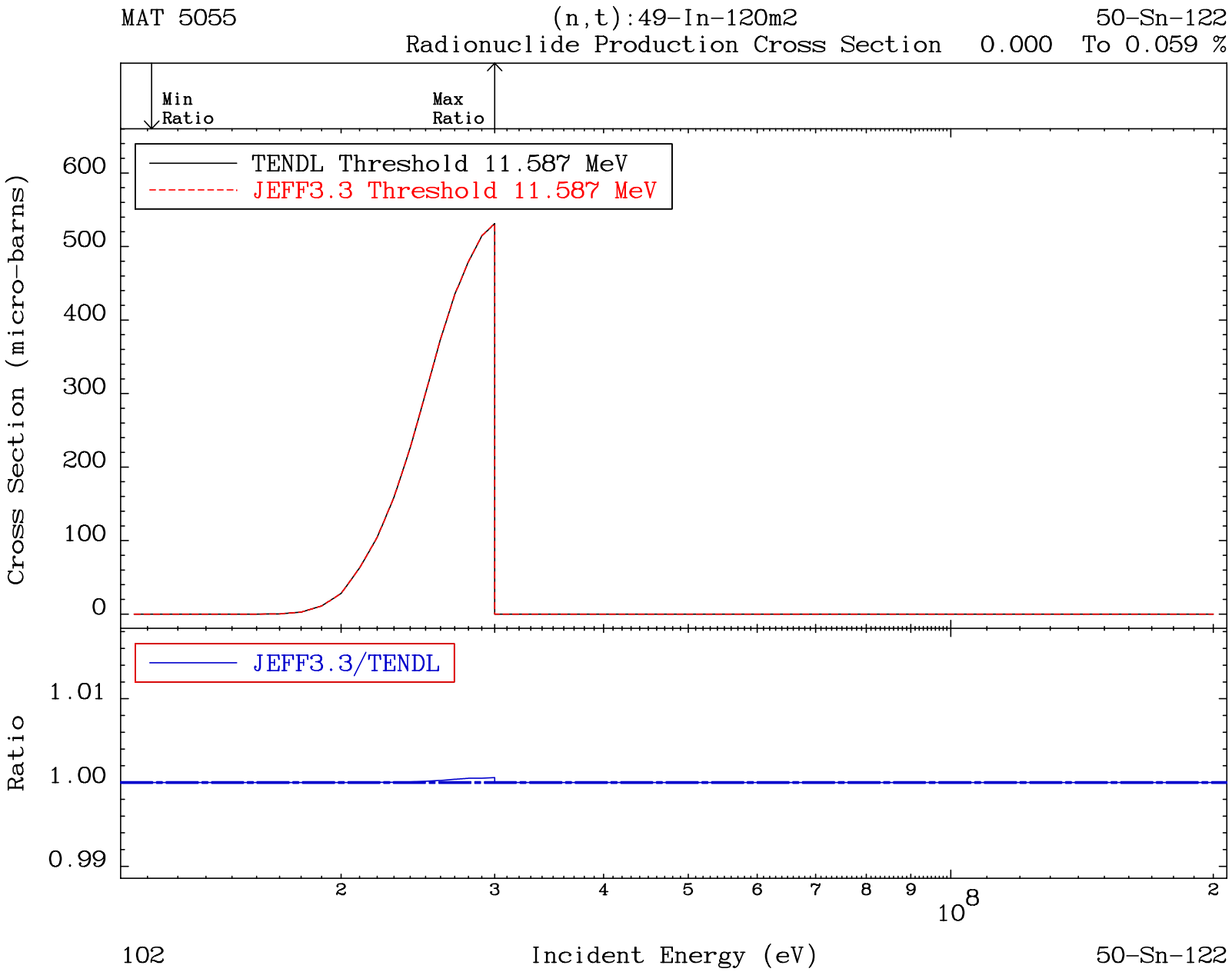

MAT 5055
(n,p):49-In-122m5
50-Sn-122
Radionuclide Production Cross Section 0.000 To 0.082 %
Max Ratio
Min Ratio
TENDL Threshold 6.6000 MeV
JEFF3.3 Threshold 6.6000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
97
Incident Energy (eV)
50-Sn-122

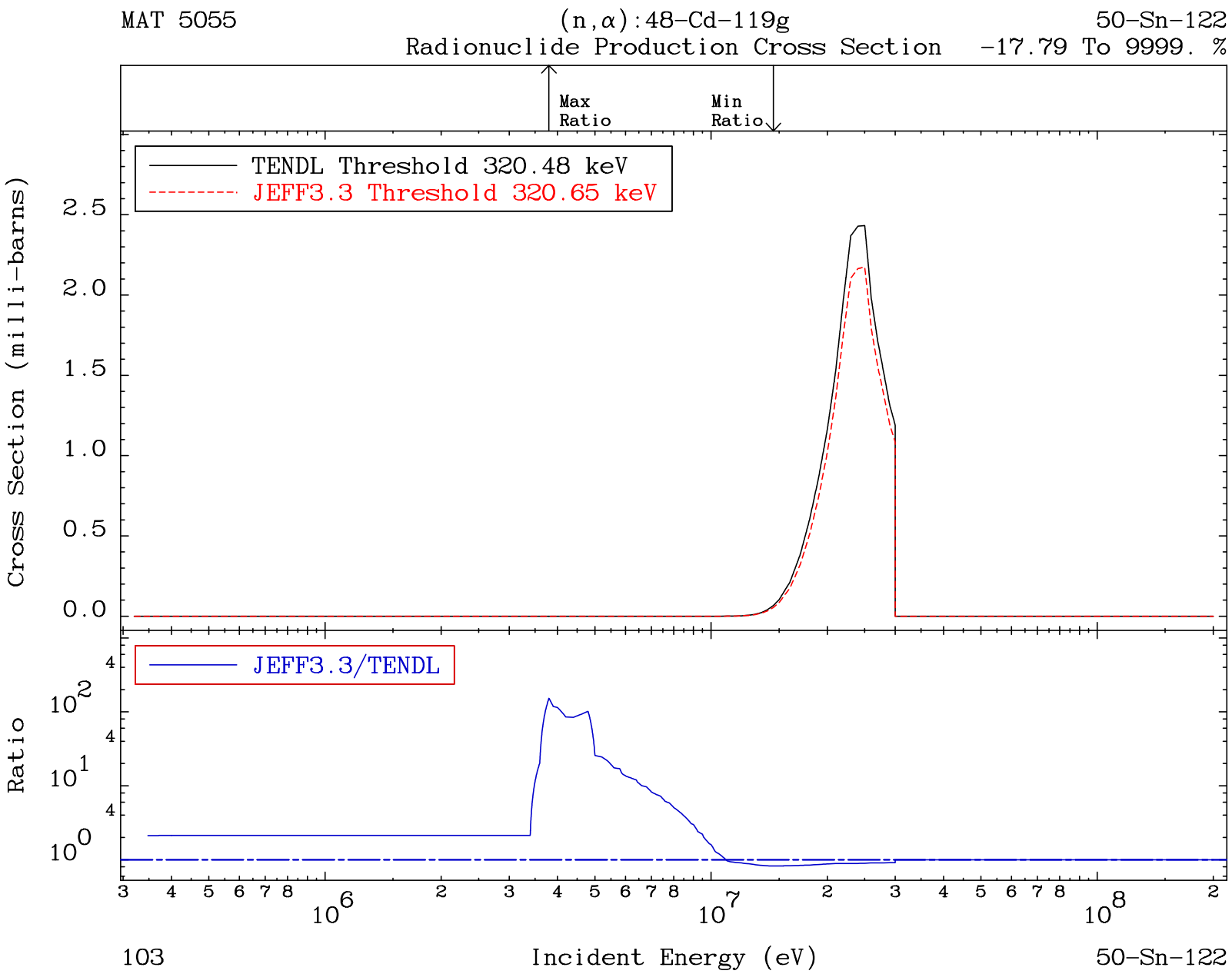

MAT 5055
(n,d):49-In-121g
50-Sn-122
Radionuclide Production Cross Section
-0.001 To 0.050 %
Max Ratio
Min Ratio
TENDL Threshold 9.2456 MeV
JEFF3.3 Threshold 9.2456 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
50-Sn-122

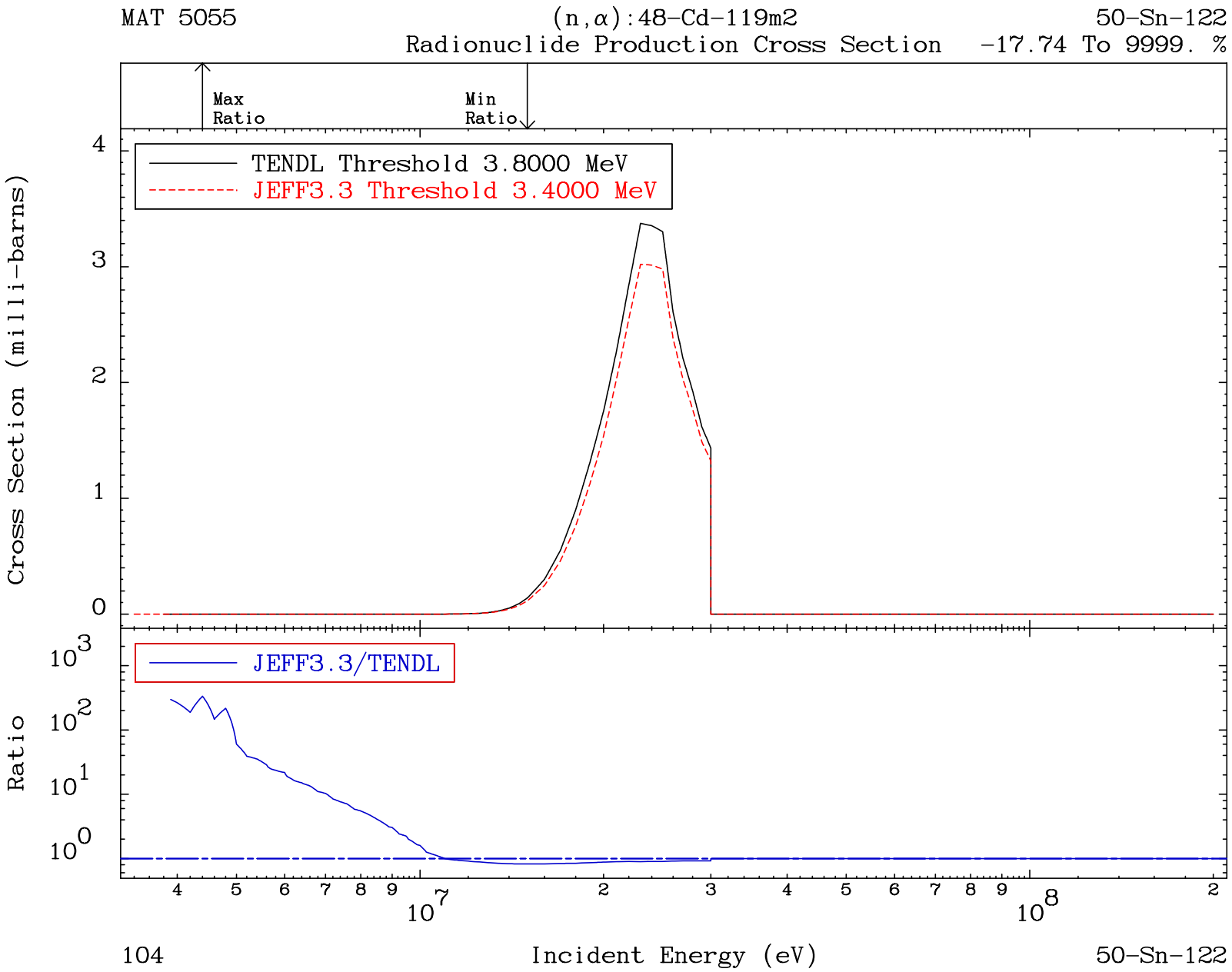

MAT 5055
(n,d):49-In-121m1
50-Sn-122
Radionuclide Production Cross Section 0.000 To 0.027 %
Max Ratio
Min Ratio
TENDL Threshold 10.500 MeV
JEFF3.3 Threshold 10.500 MeV
Cross Section (milli-barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
99
Incident Energy (eV)
50-Sn-122

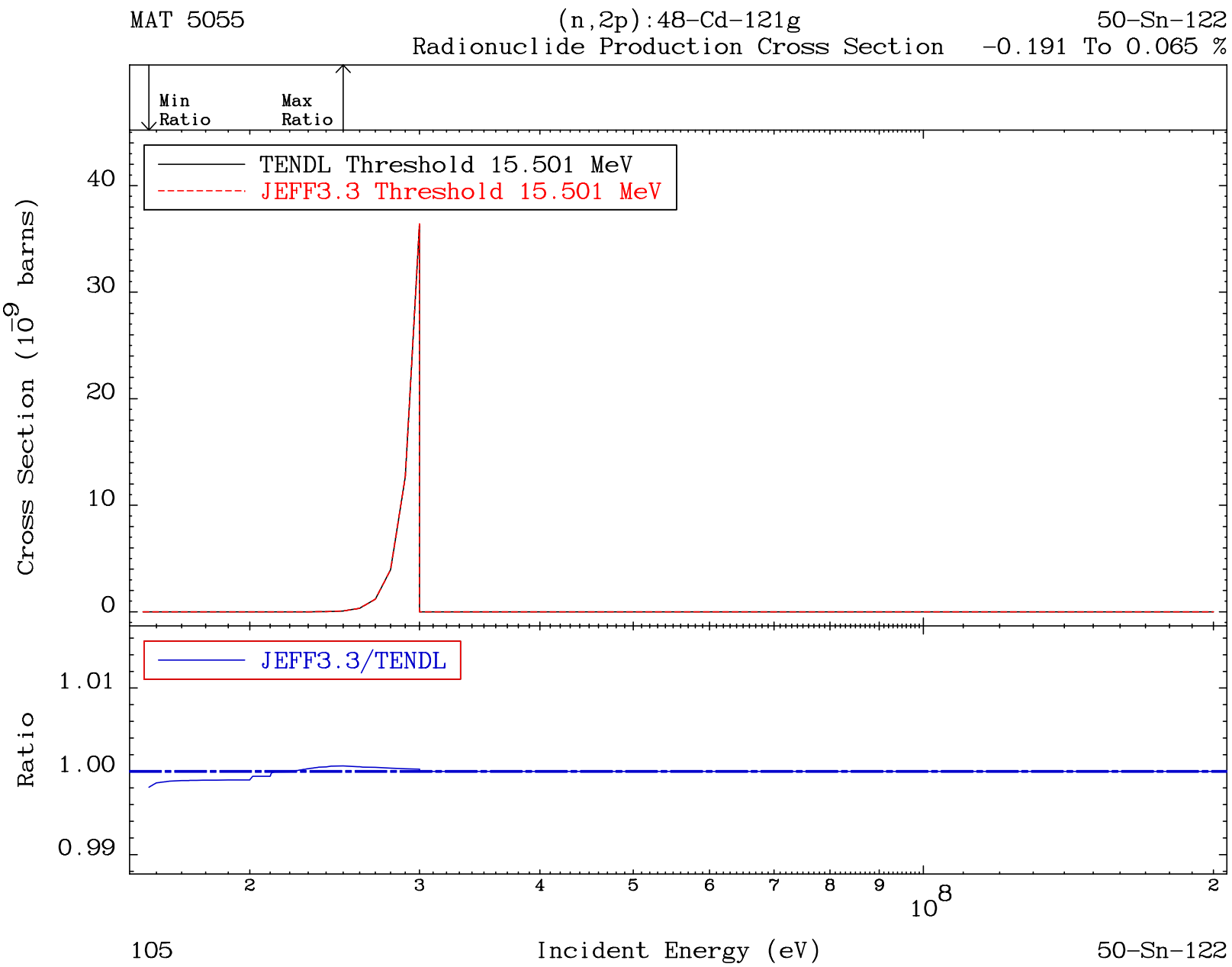

MAT 5055
(n,t):49-In-120g
50-Sn-122
Radionuclide Production Cross Section 0.000 To 0.077 %
Max Ratio
Min Ratio
TENDL Threshold 11.183 MeV
JEFF3.3 Threshold 11.183 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
100
Incident Energy (eV)
50-Sn-122

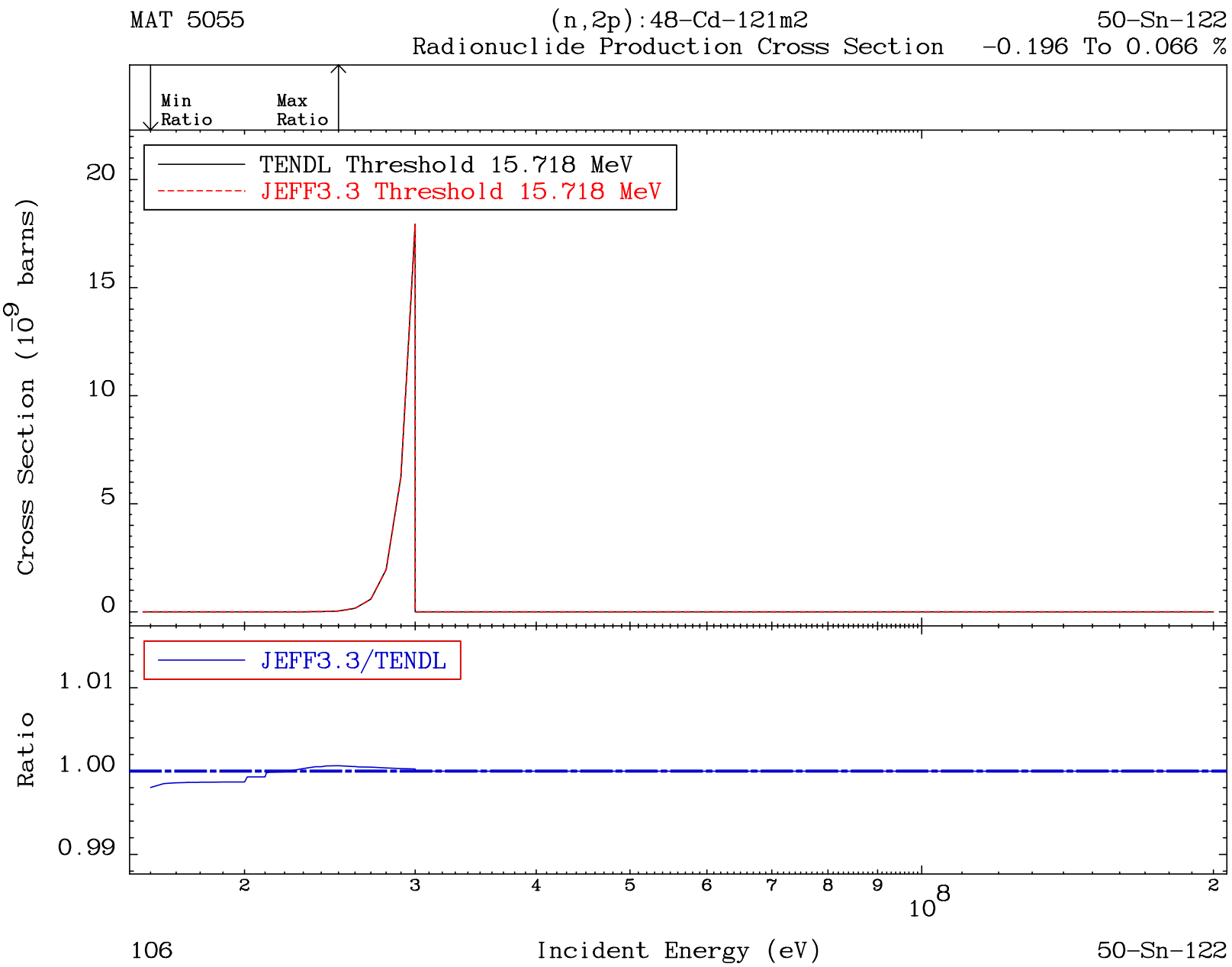

MAT 5055
(n,t):49-In-120m1
50-Sn-122
Radionuclide Production Cross Section 0.000 To 0.065 %
Max Ratio
Min Ratio
TENDL Threshold 11.254 MeV
JEFF3.3 Threshold 11.254 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
101
Incident Energy (eV)
50-Sn-122

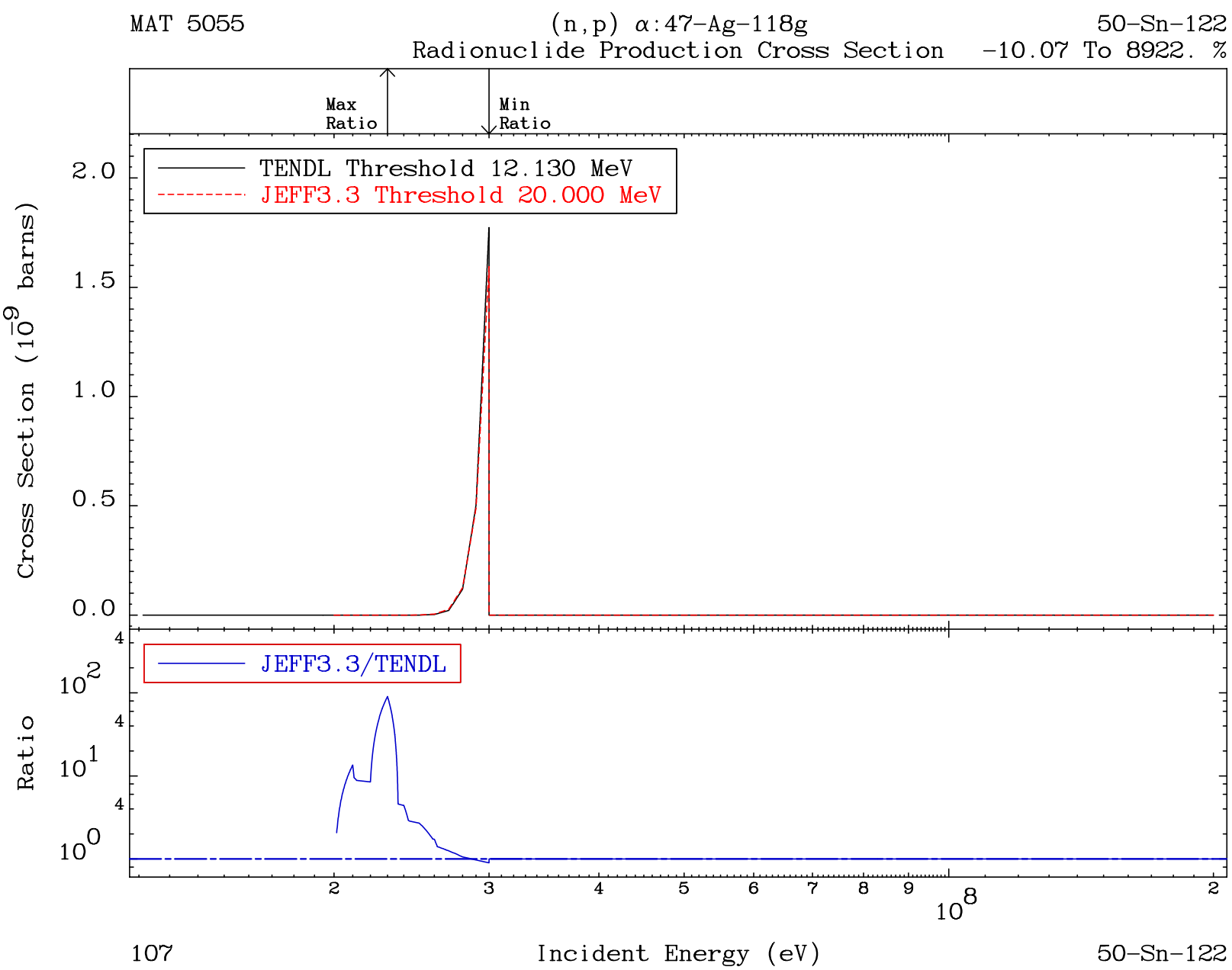

MAT 5055
(n,t):49-In-120m2
50-Sn-122
Radionuclide Production Cross Section 0.000 To 0.059 %
Min Ratio
Max Ratio
TENDL Threshold 11.587 MeV
JEFF3.3 Threshold 11.587 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
102
Incident Energy (eV)
50-Sn-122

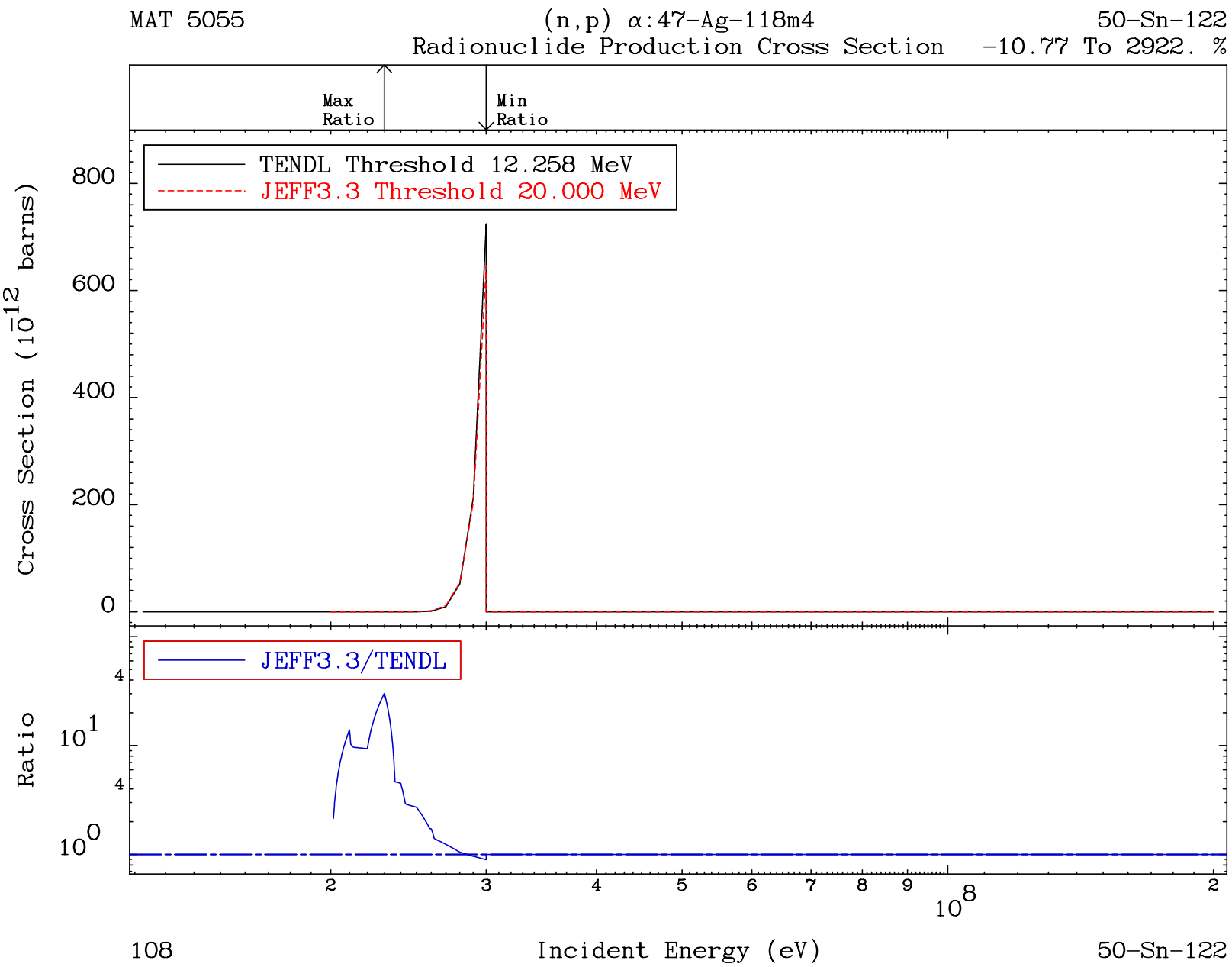

MAT 5055
(n,α):48-Cd-119g
50-Sn-122
Radionuclide Production Cross Section -17.79 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 320.48 keV
JEFF3.3 Threshold 320.65 keV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 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 -17.74 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.8000 MeV
JEFF3.3 Threshold 3.4000 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
104
50-Sn-122


MAT 5055
(n,2p):48-Cd-121g
50-Sn-122
Radionuclide Production Cross Section -0.191 To 0.065 %
Min Ratio
Max Ratio
TENDL Threshold 15.501 MeV
JEFF3.3 Threshold 15.501 MeV
Cross Section (10^{-9} barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
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
-0.196 To 0.066 %
Min Ratio
Max Ratio
TENDL Threshold 15.718 MeV
JEFF3.3 Threshold 15.718 MeV
Cross Section (10^{-9} barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
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
-10.07 To 8922. %
Max Ratio
Min Ratio
TENDL Threshold 12.130 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 -10.77 To 2922. %
Max Ratio
Min Ratio
TENDL Threshold 12.258 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