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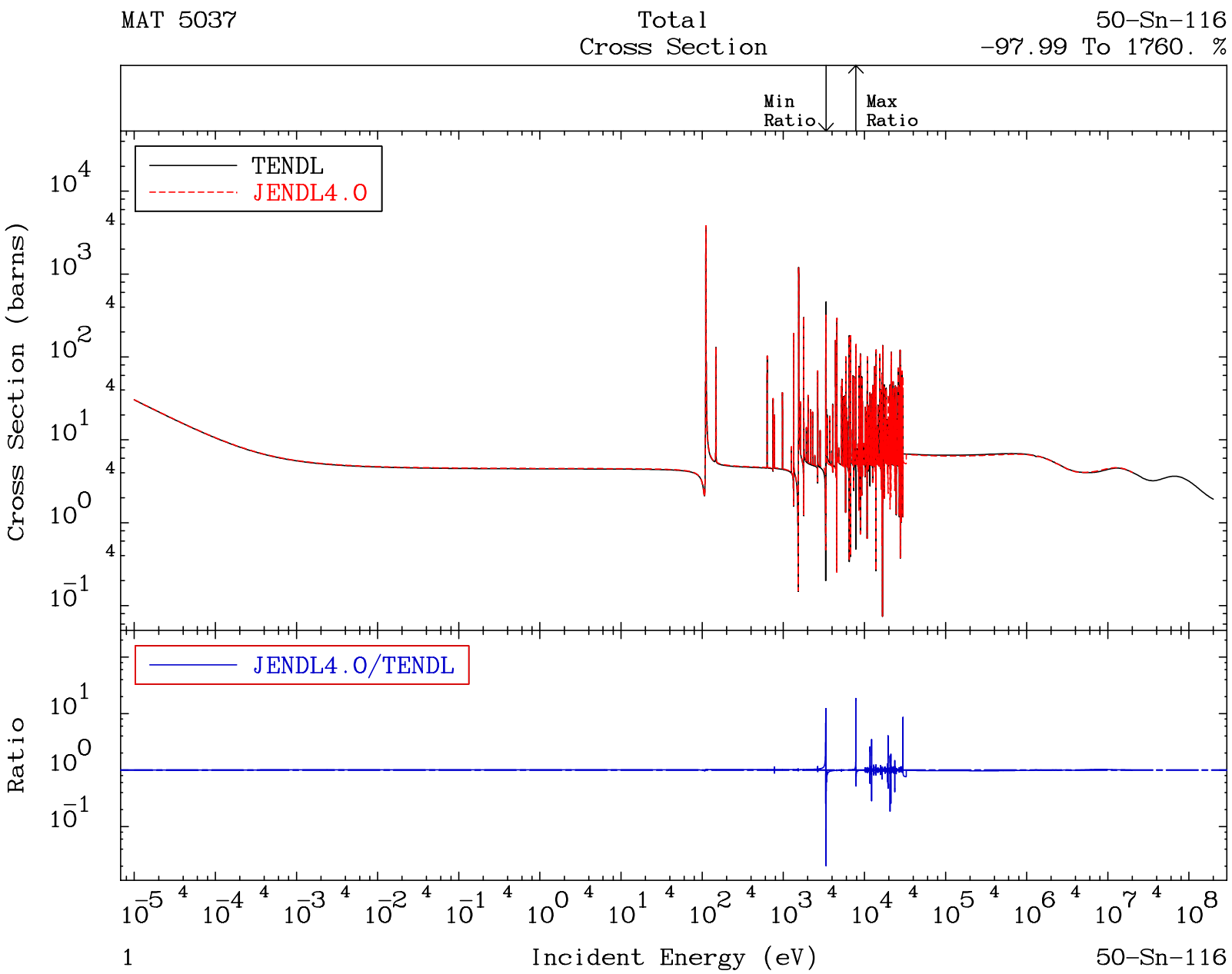
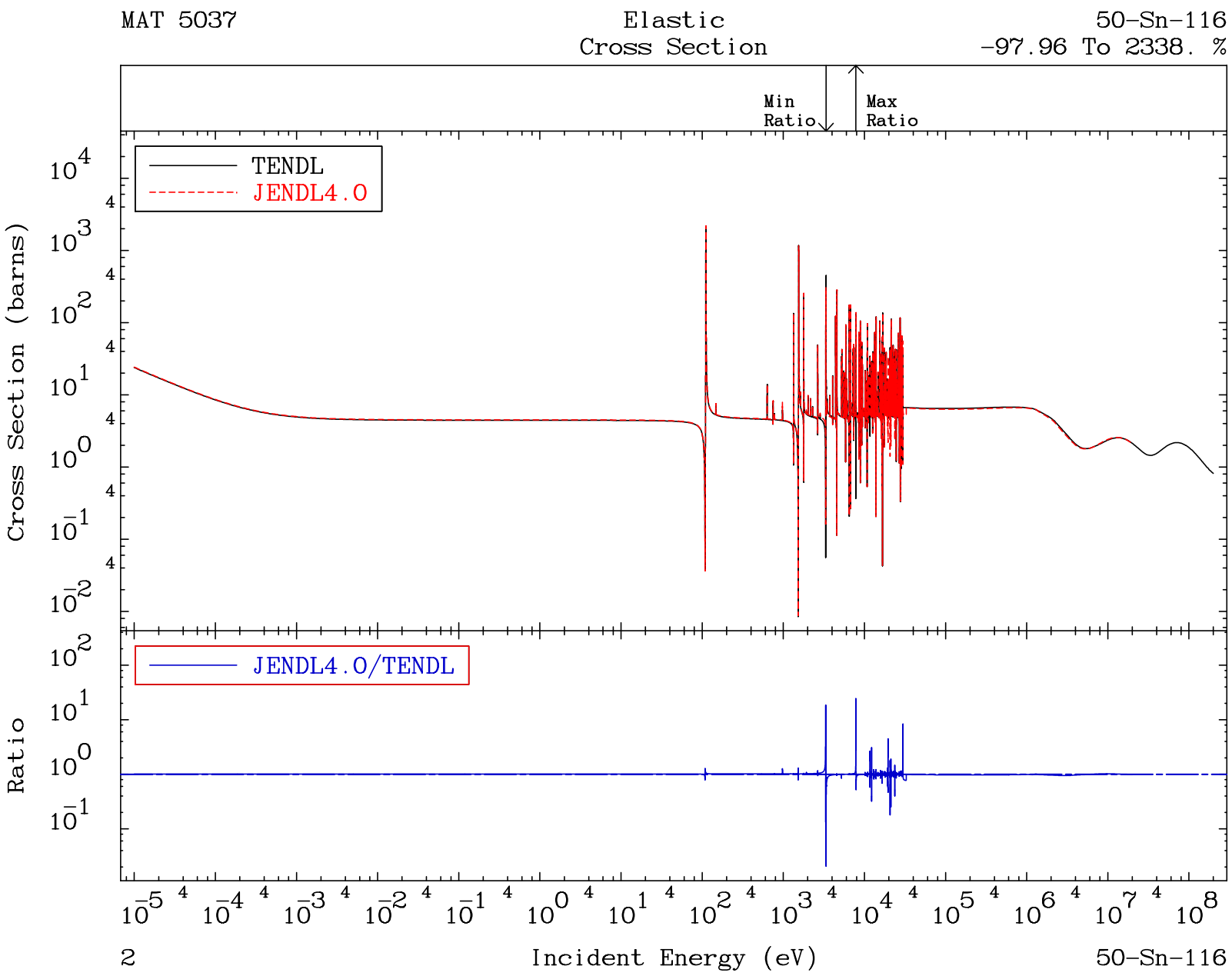
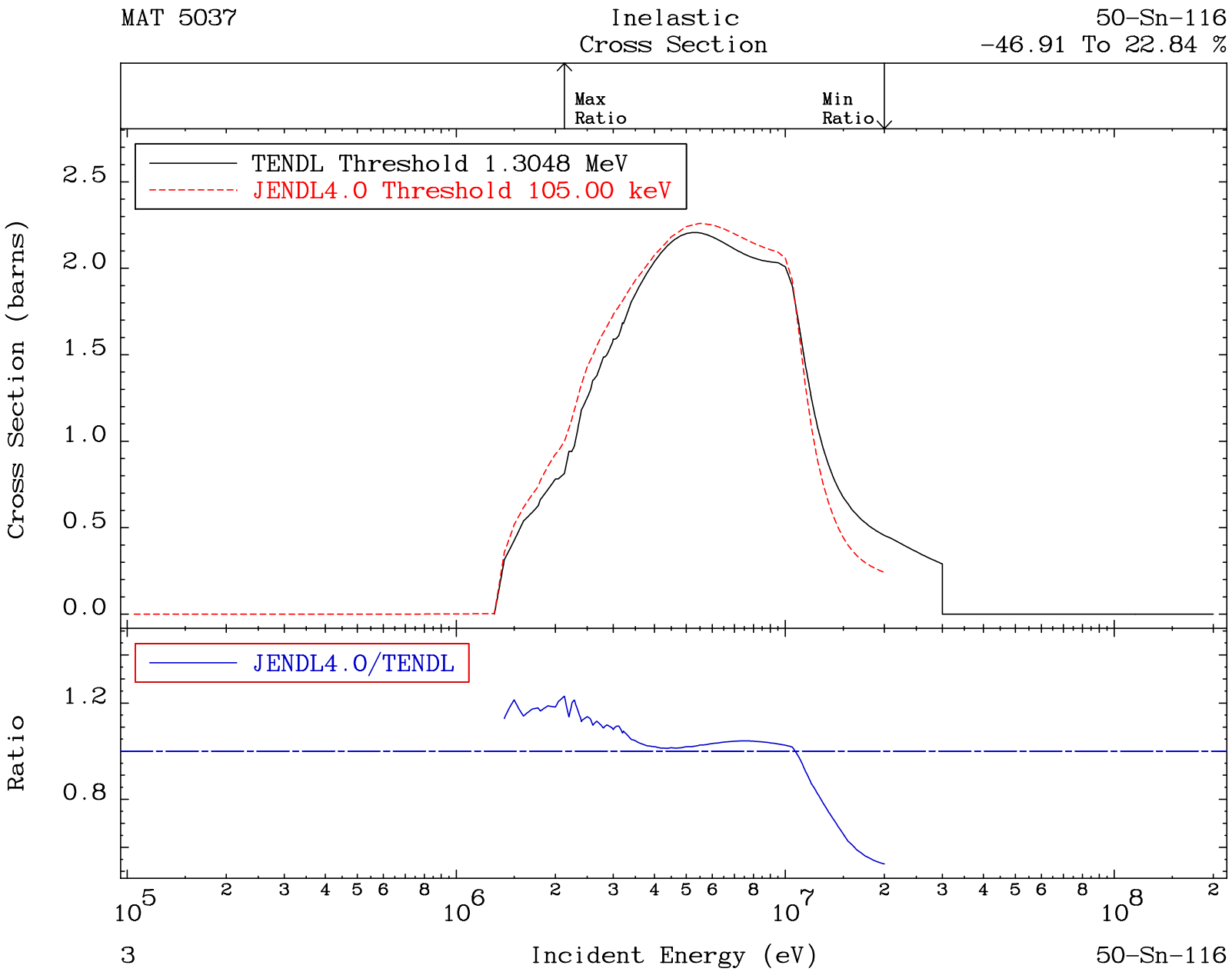
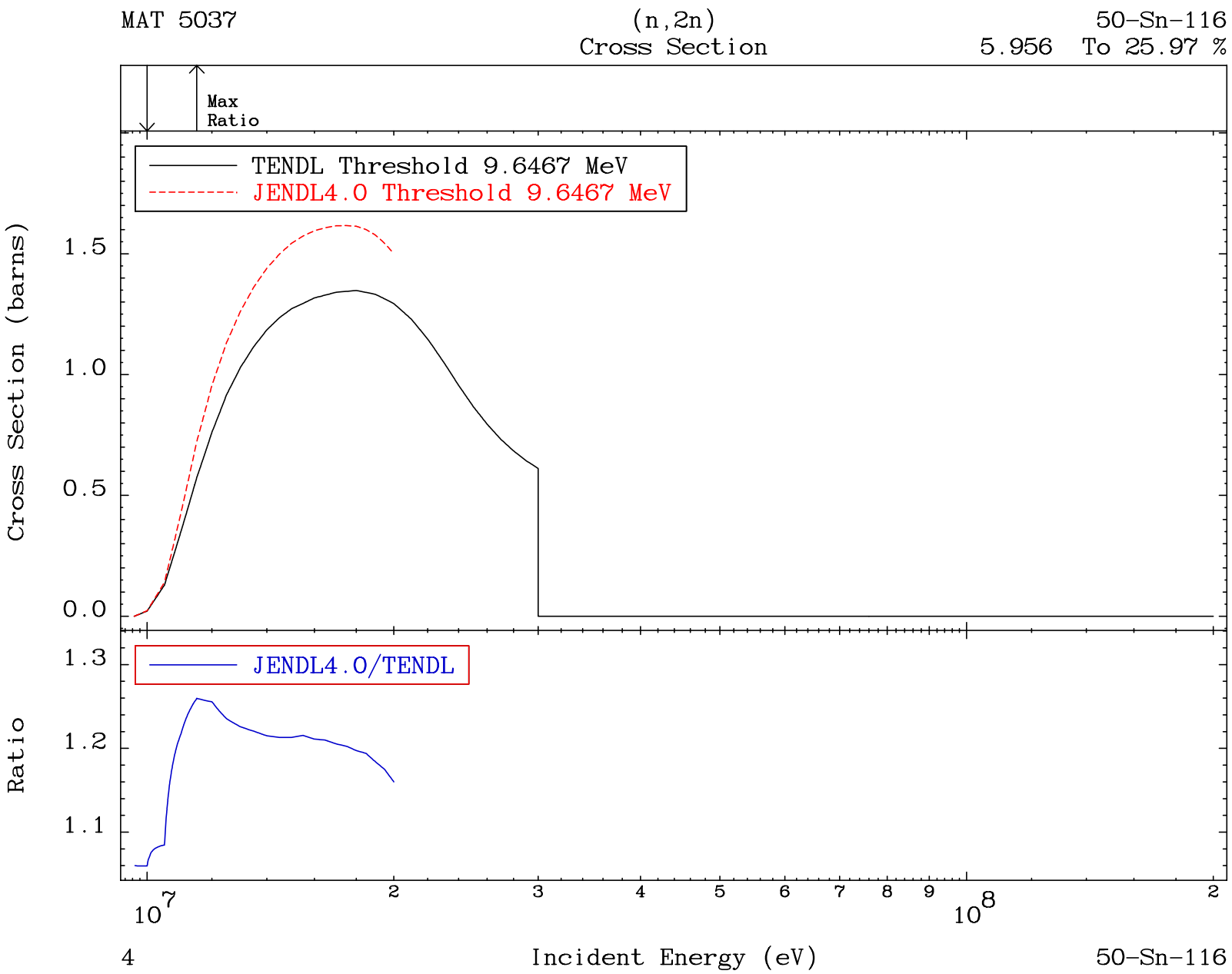
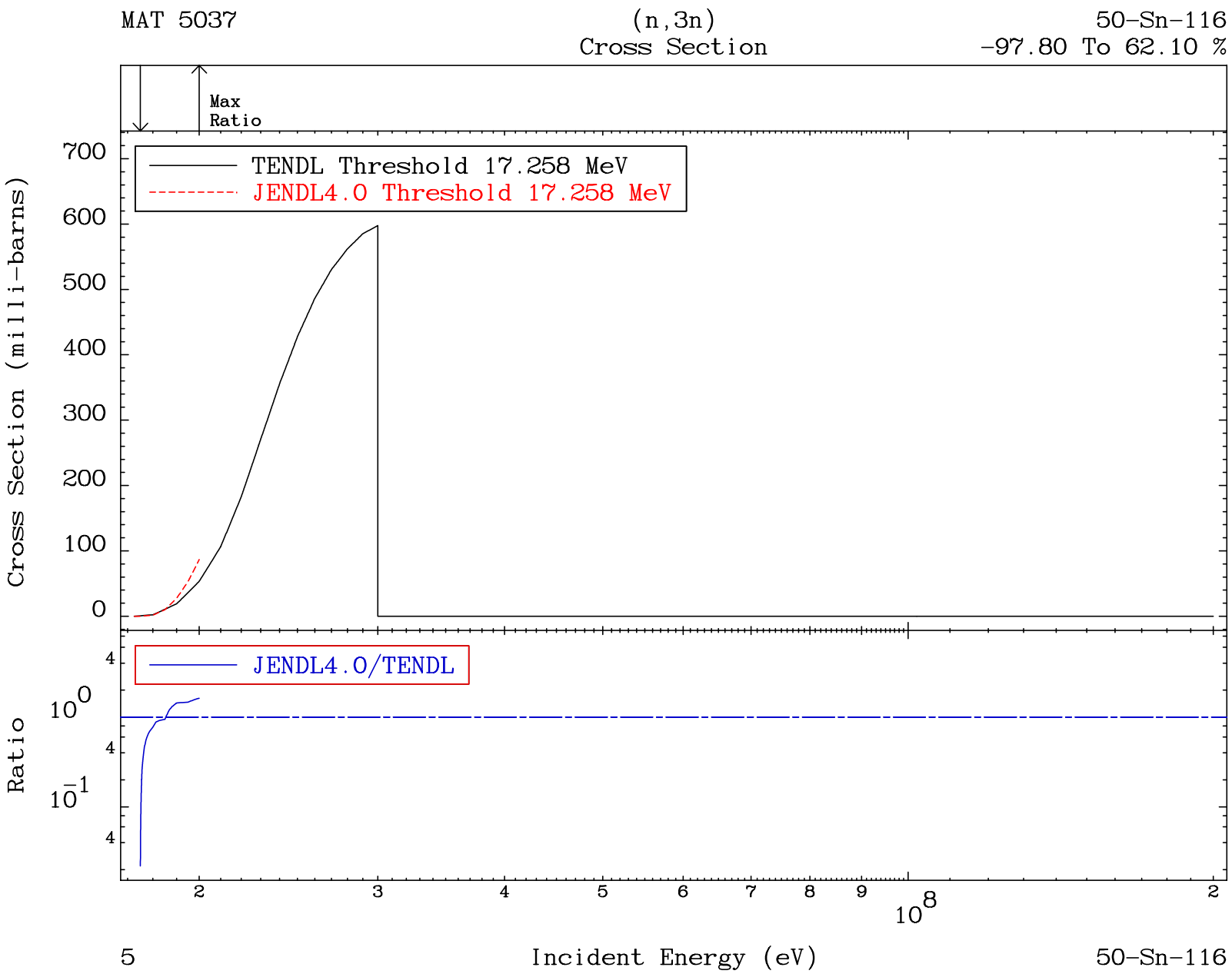
Press Mouse Button to Start

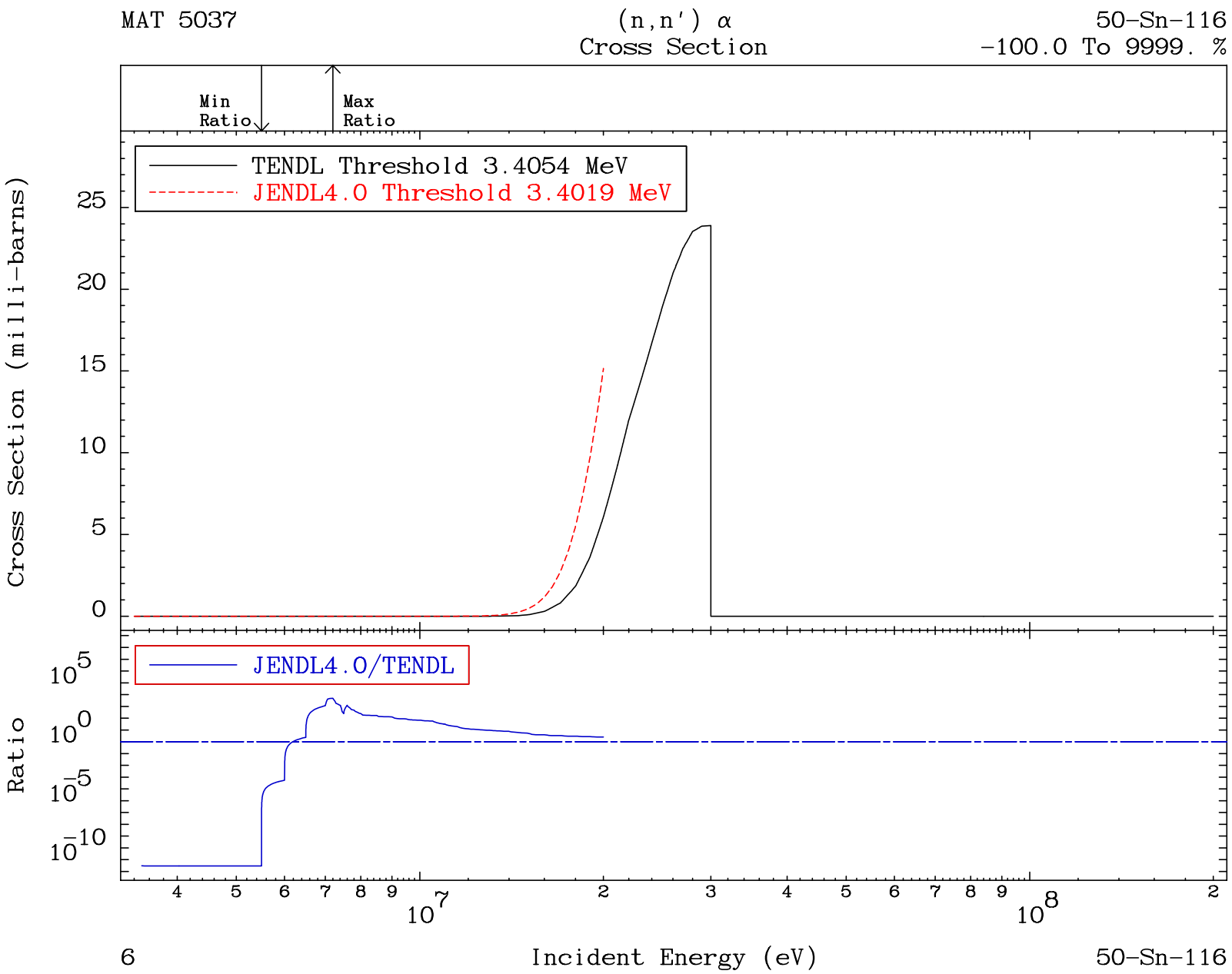

MAT 5037
Total
Cross Section
50-Sn-116
-97.99 To 1760. %
Min
Ratio
Max
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
1
50-Sn-116

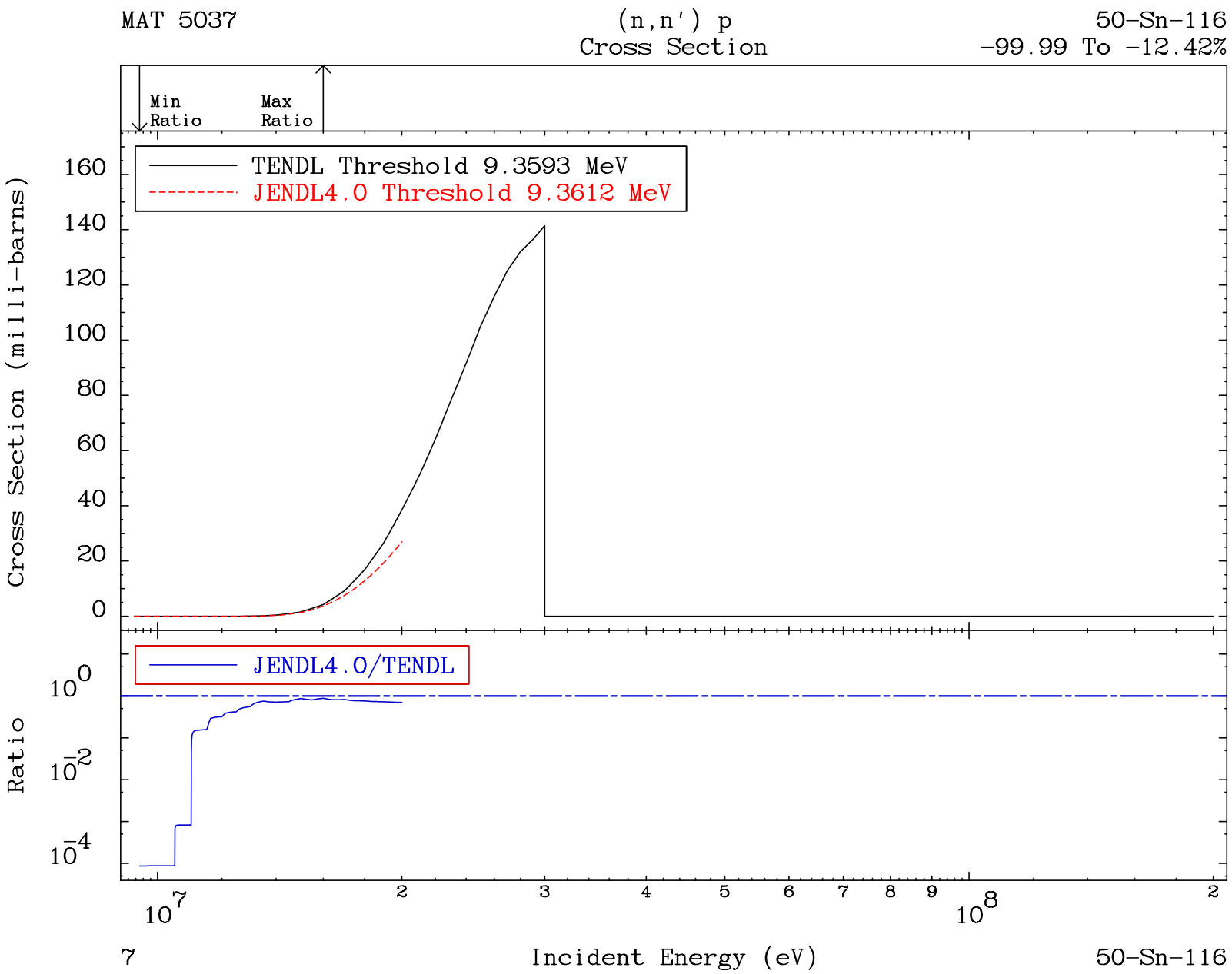

MAT 5037
Elastic
Cross Section
50-Sn-116
-97.96 To 2338. %
Min
Ratio
Max
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
50-Sn-116

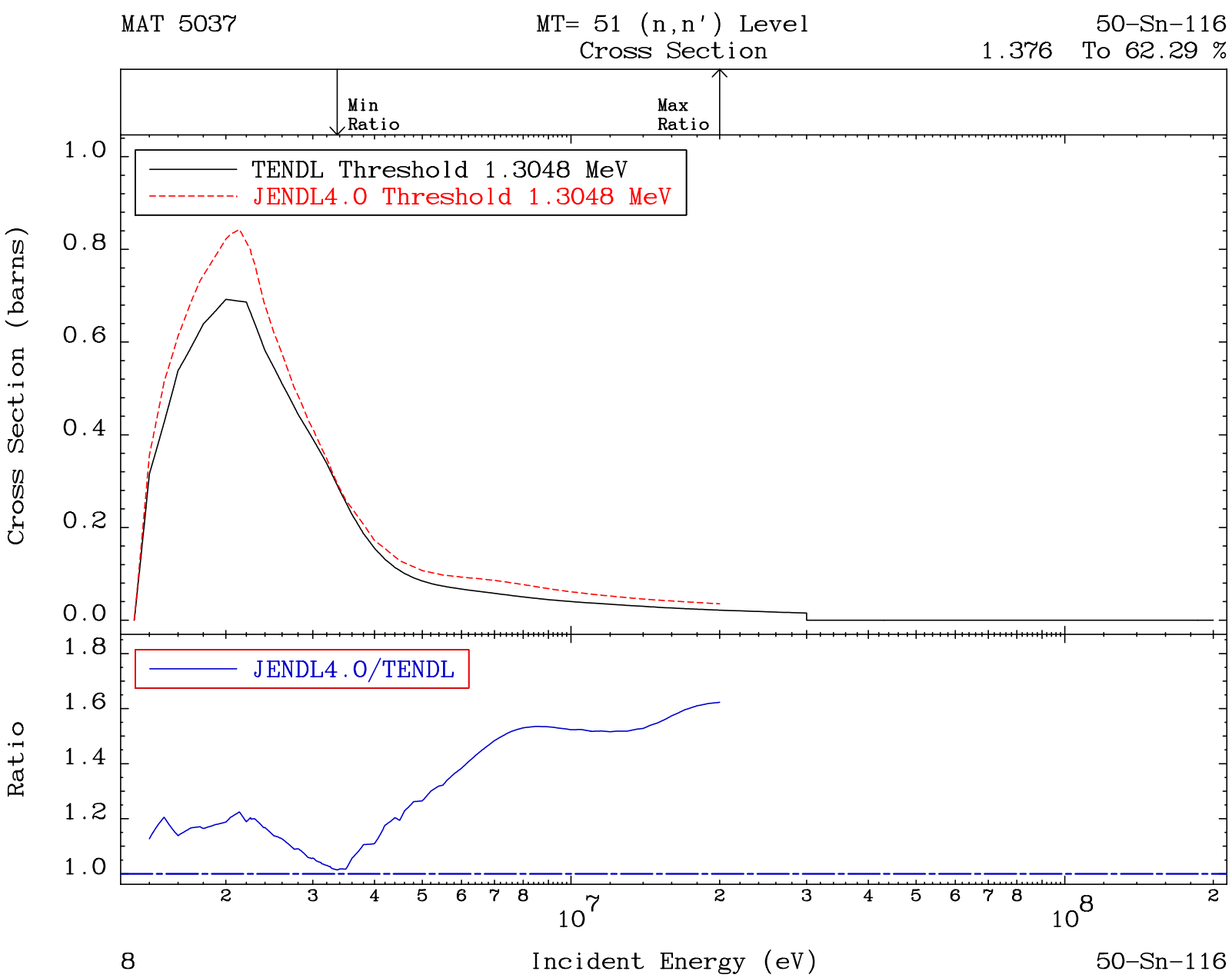

MAT 5037
Inelastic
Cross Section
50-Sn-116
-46.91 To 22.84 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.3048 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
1.2
0.8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
50-Sn-116

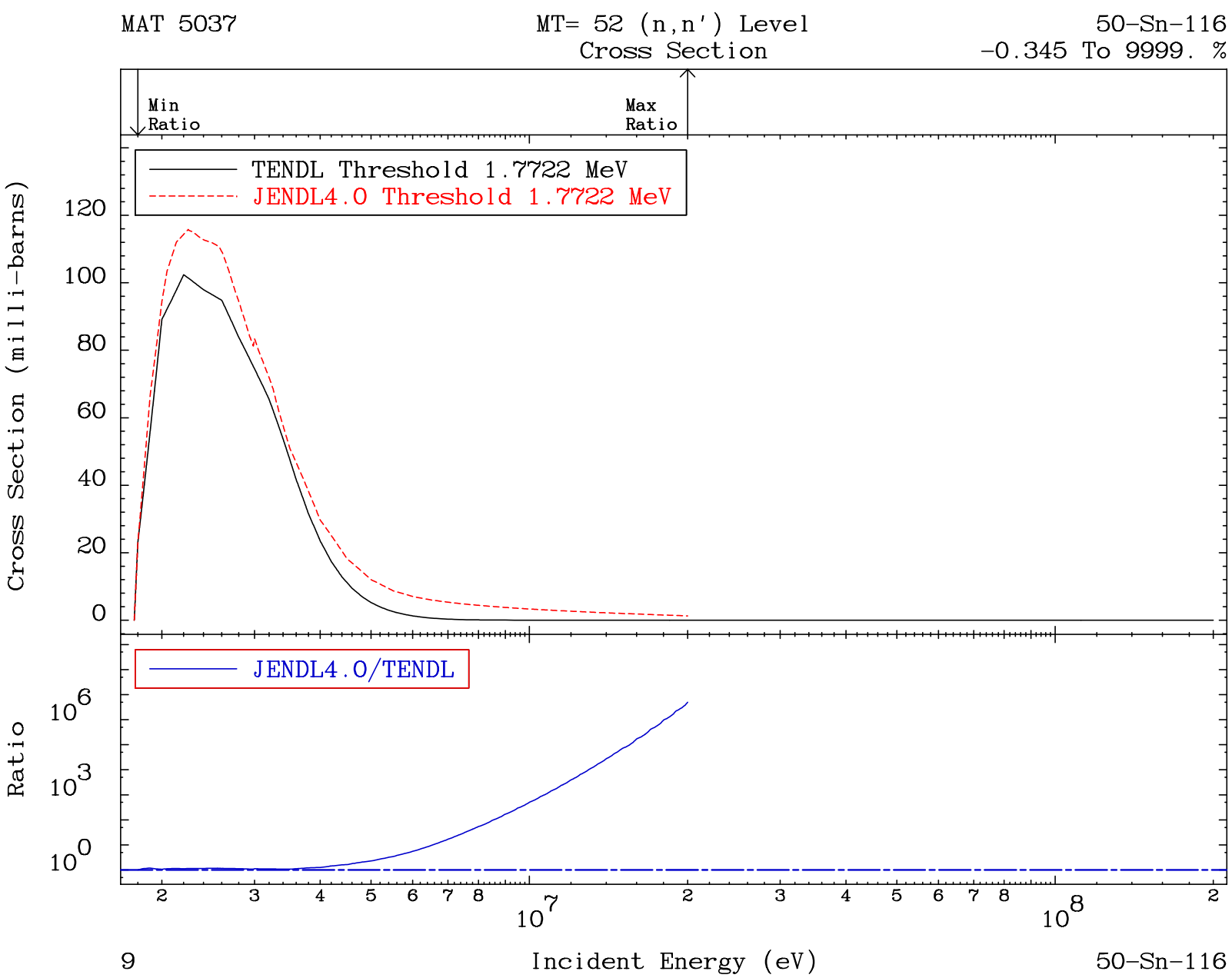

MAT 5037
(n,2n)
Cross Section
50-Sn-116
5.956 To 25.97 %
Max
Ratio
TENDL Threshold 9.6467 MeV
JENDL4.0 Threshold 9.6467 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
1.3
1.2
1.1
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
50-Sn-116

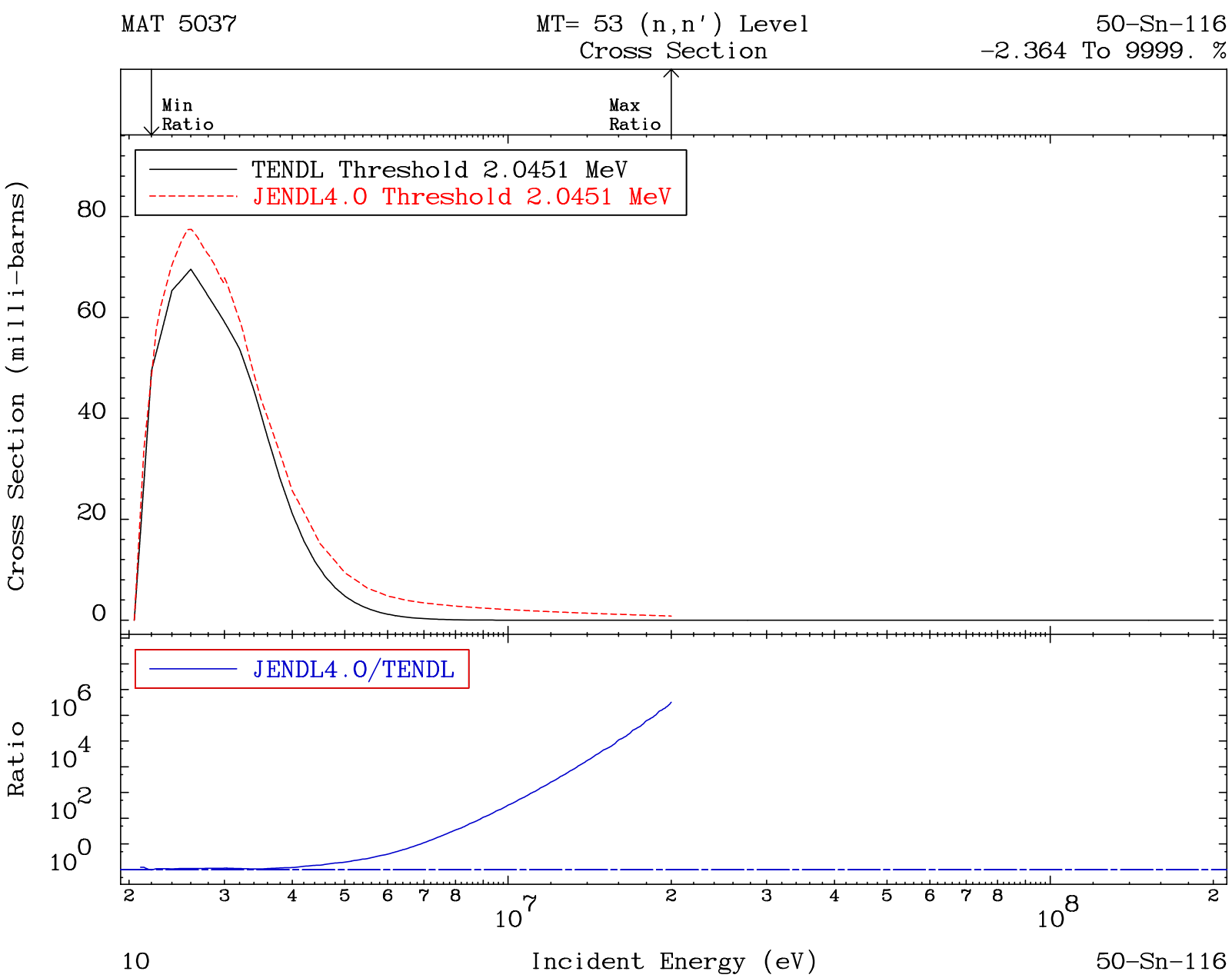

MAT 5037
(n,3n)
Cross Section
50-Sn-116
-97.80 To 62.10 %
Max
Ratio
TENDL Threshold 17.258 MeV
JENDL4.0 Threshold 17.258 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
50-Sn-116

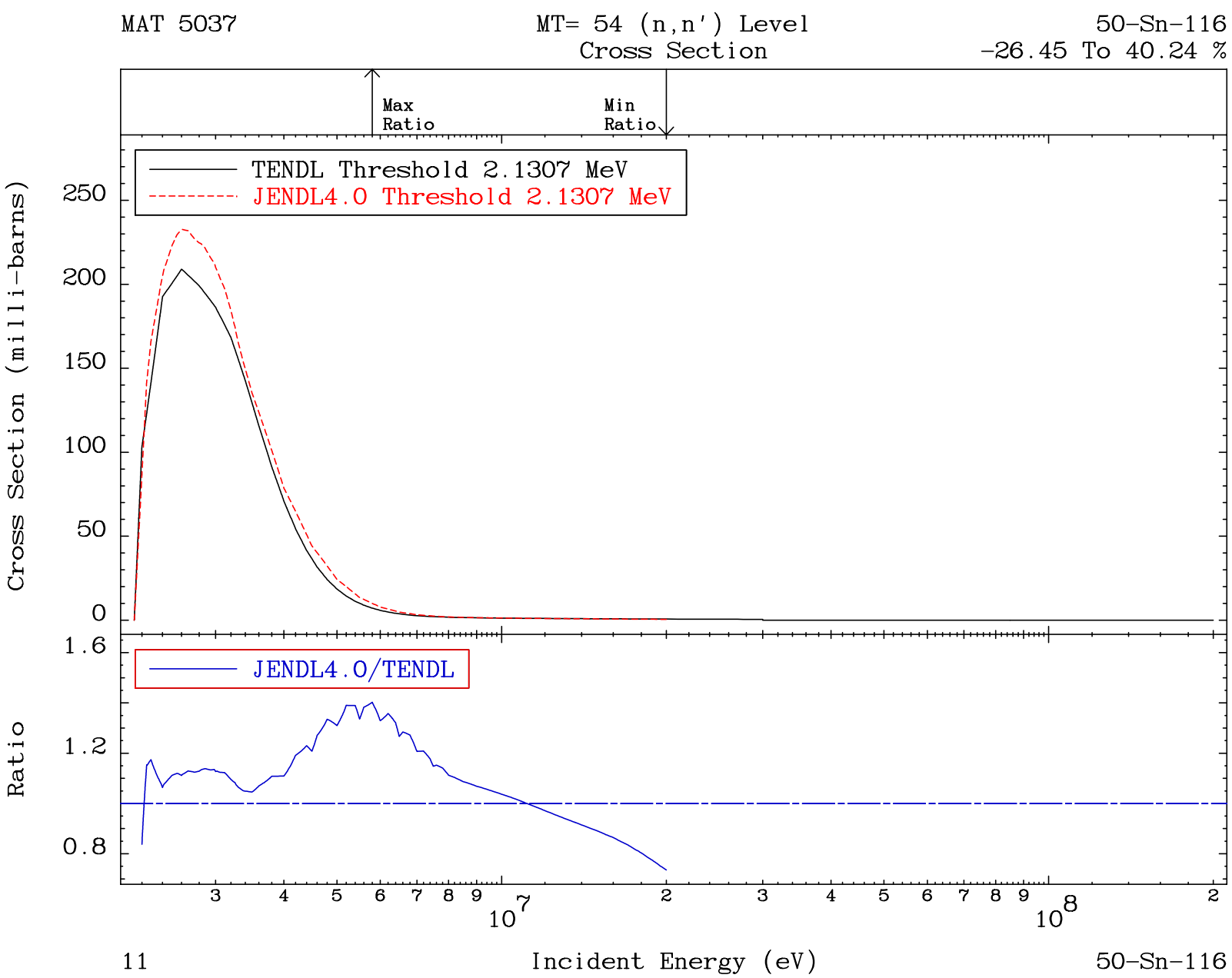

MAT 5037
(n,n') α
Cross Section
50-Sn-116
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.4054 MeV
JENDL4.0 Threshold 3.4019 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^5
10^0
10^-5
10^-10
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
50-Sn-116

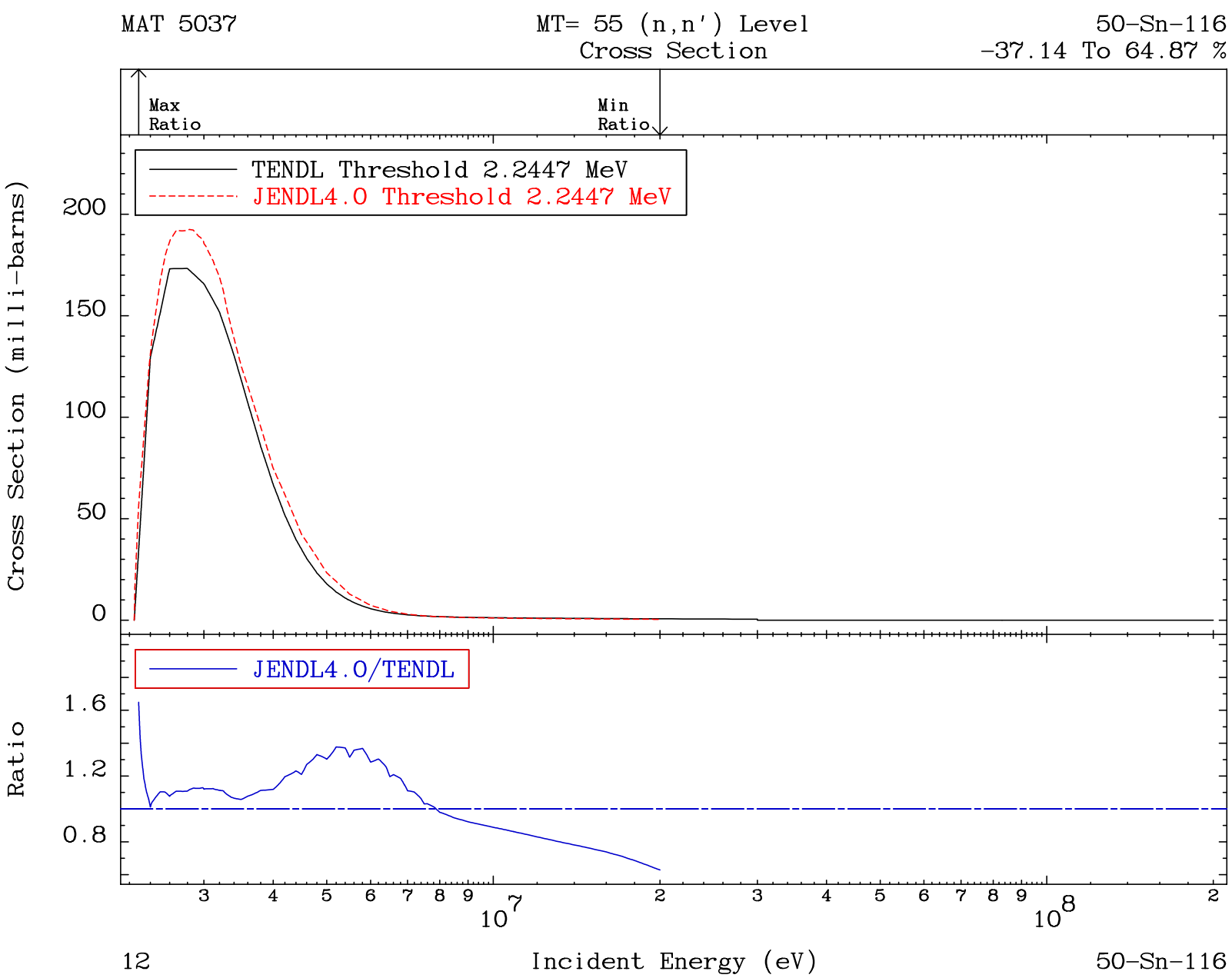

MAT 5037
(n,n') p
Cross Section
50-Sn-116
-99.99 To -12.42%
Min Ratio
Max Ratio
TENDL Threshold 9.3593 MeV
JENDL4.0 Threshold 9.3612 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-2
10^-4
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
50-Sn-116

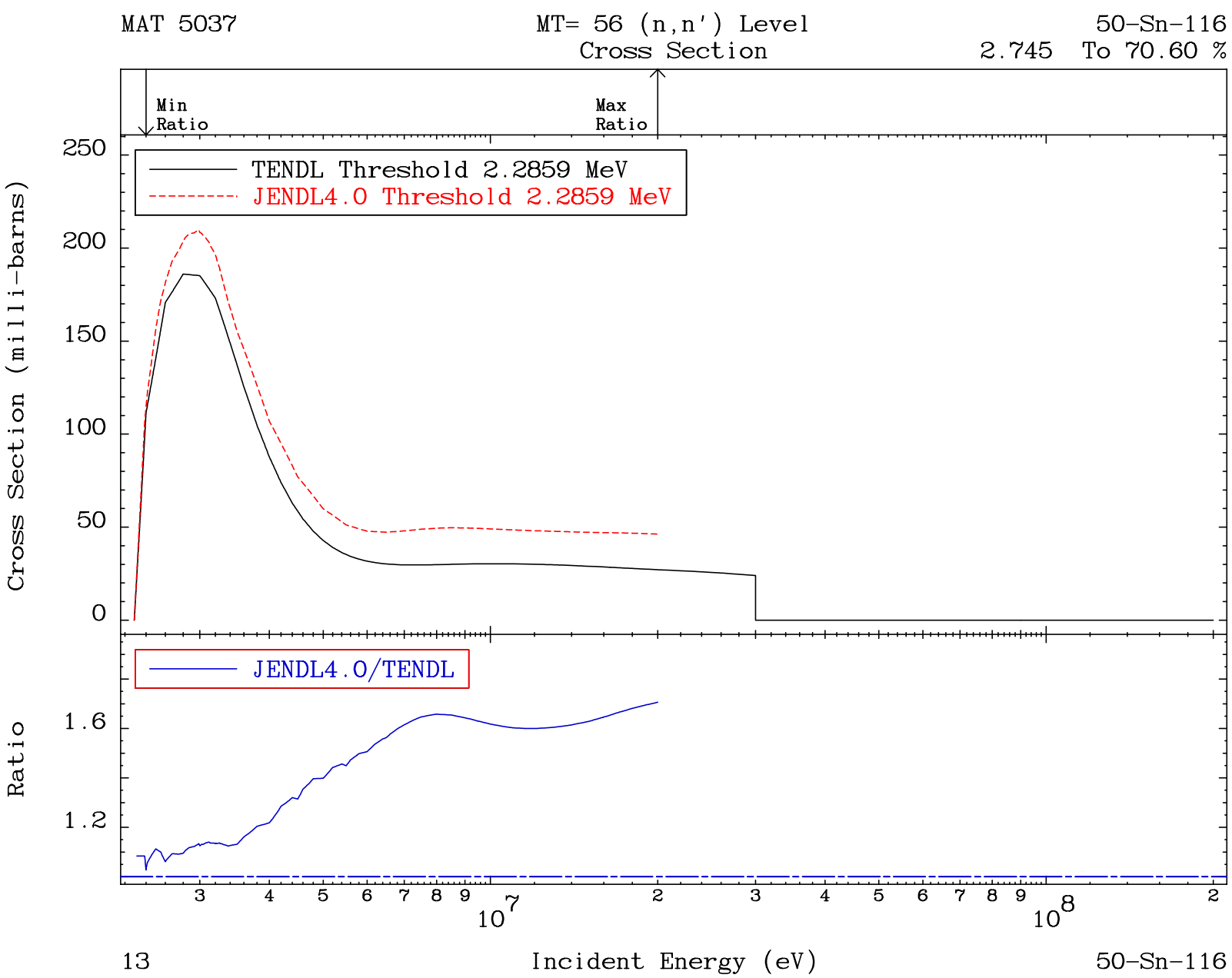

MAT 5037
MT= 51 (n,n') Level
Cross Section
50-Sn-116
1.376 To 62.29 %
Min Ratio
Max Ratio
TENDL Threshold 1.3048 MeV
JENDL4.0 Threshold 1.3048 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
1.8
1.6
1.4
1.2
1.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
8
50-Sn-116

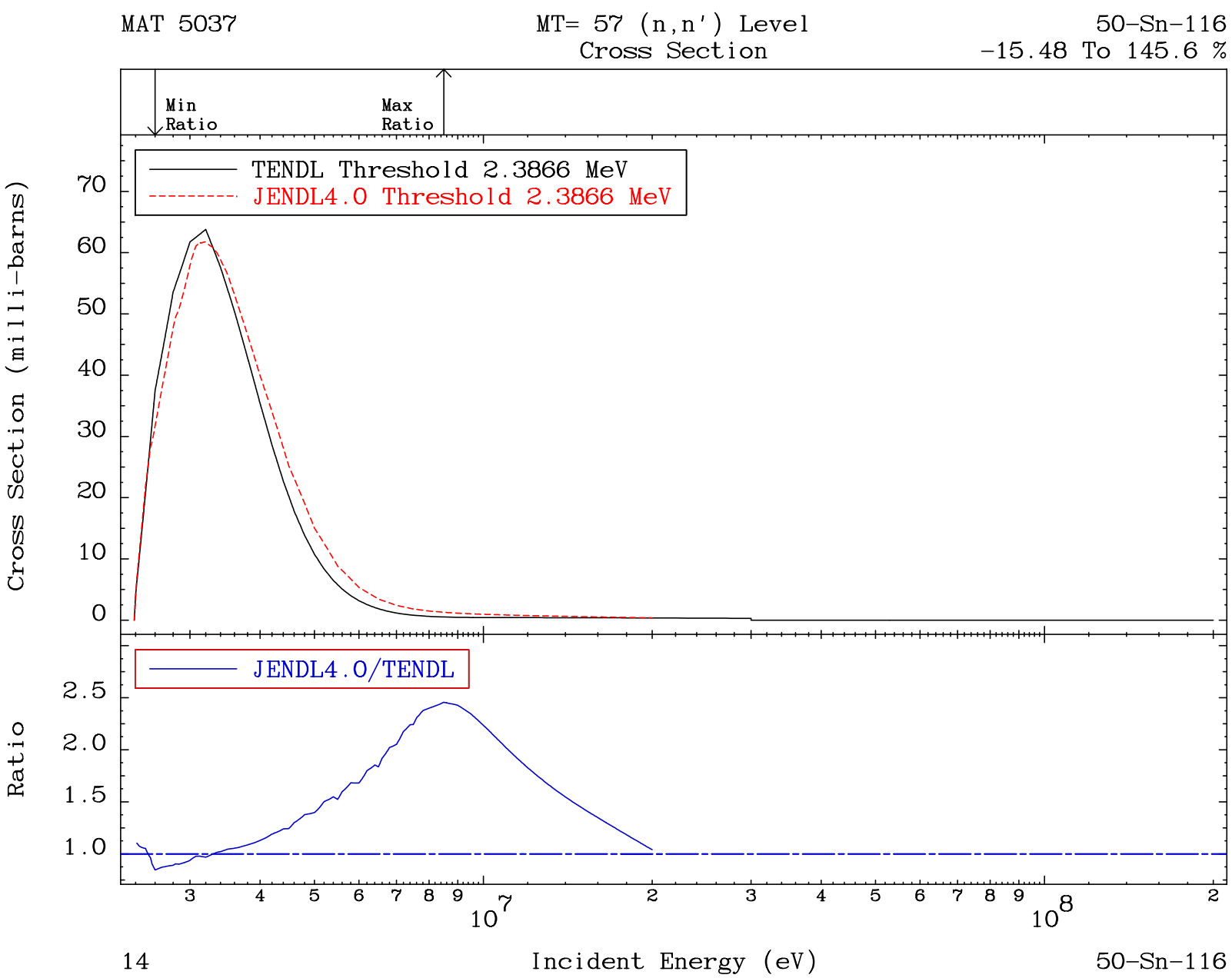

MAT 5037
MT= 52 (n,n') Level
Cross Section
50-Sn-116
-0.345 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.7722 MeV
JENDL4.0 Threshold 1.7722 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^6
10^3
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
9
Incident Energy (eV)
50-Sn-116

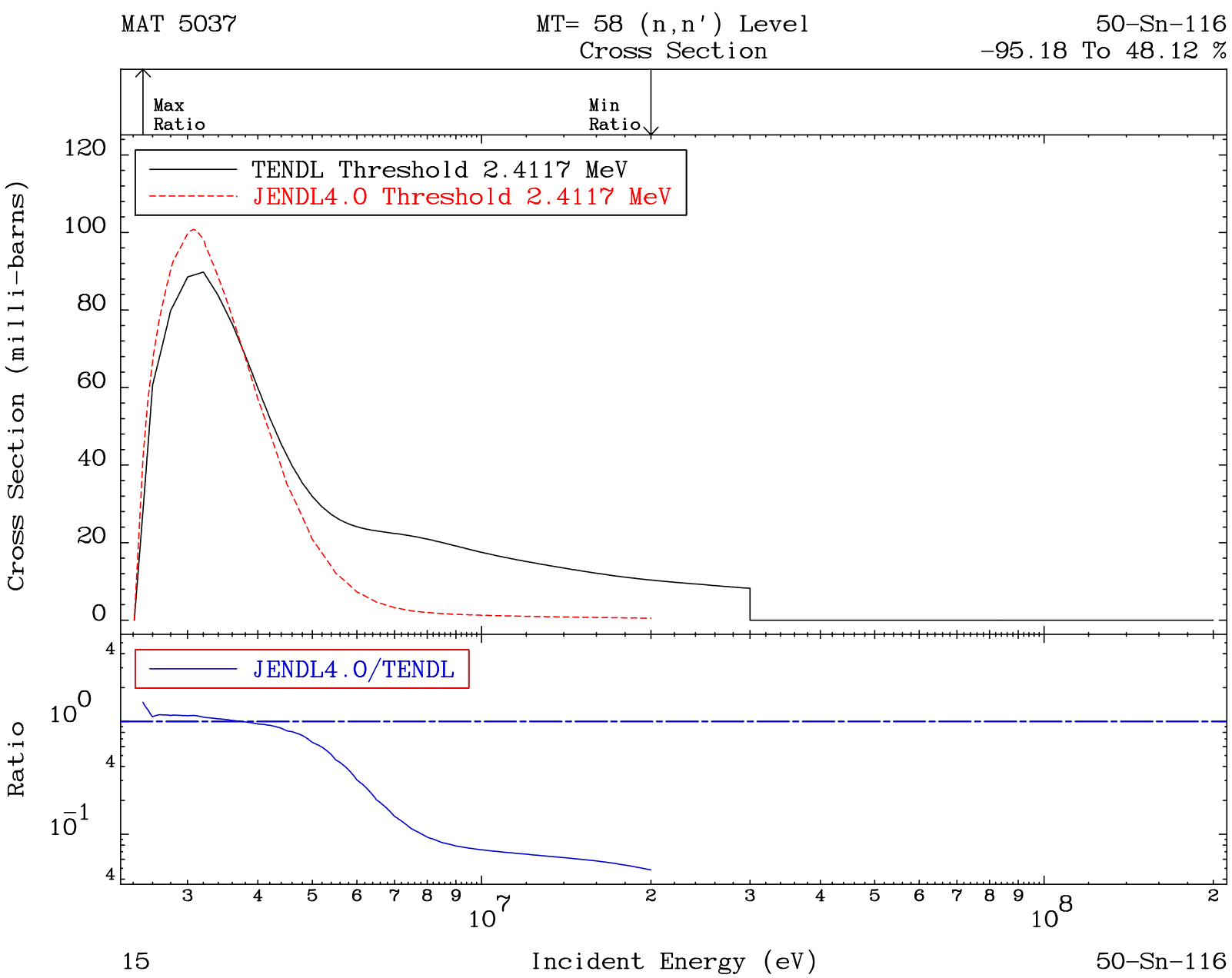

MAT 5037
MT= 53 (n,n') Level
Cross Section
50-Sn-116
-2.364 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.0451 MeV
JENDL4.0 Threshold 2.0451 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
50-Sn-116

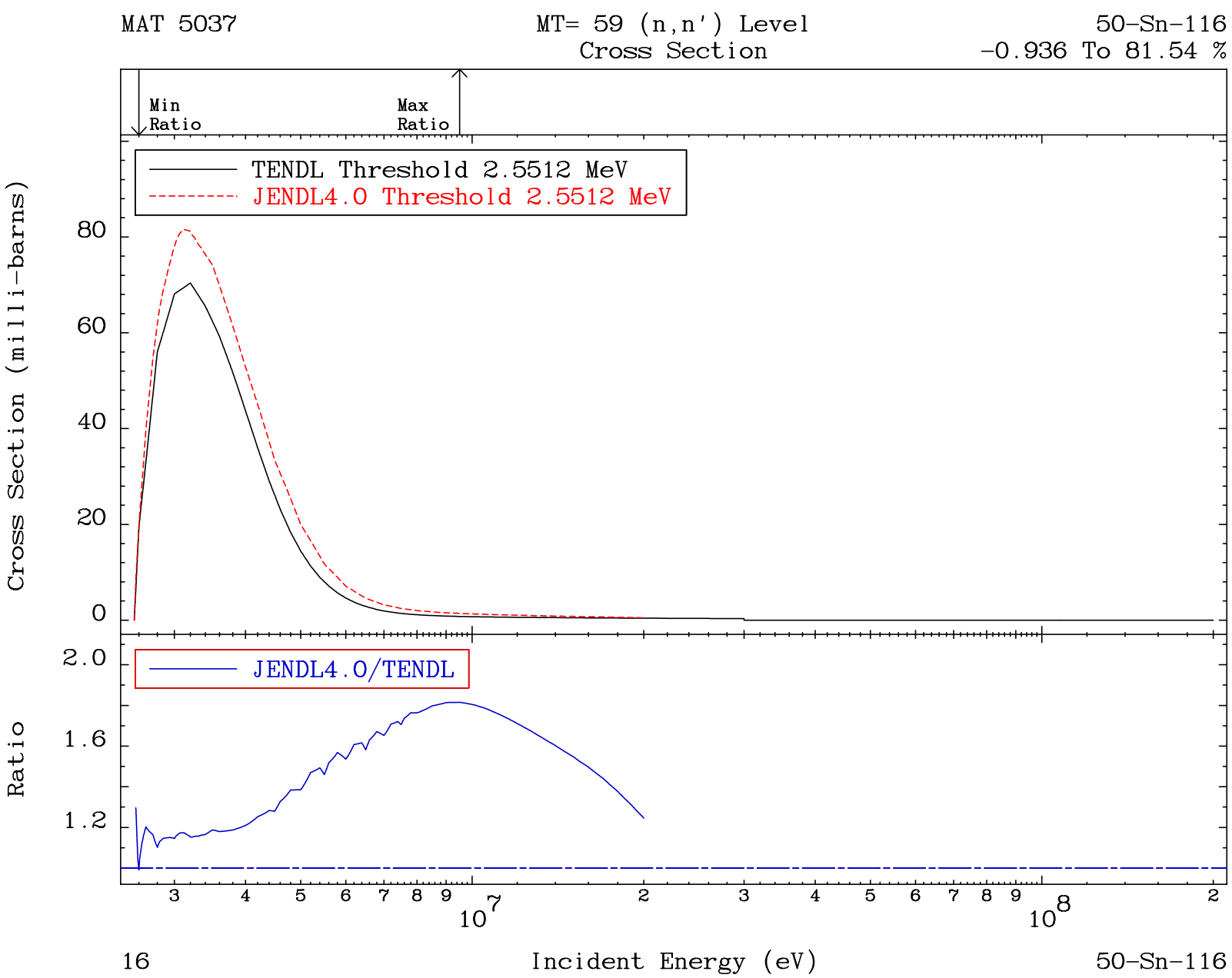

MAT 5037
MT= 54 (n,n') Level
Cross Section
50-Sn-116
-26.45 To 40.24 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.1307 MeV
JENDL4.0 Threshold 2.1307 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
11
Incident Energy (eV)
50-Sn-116

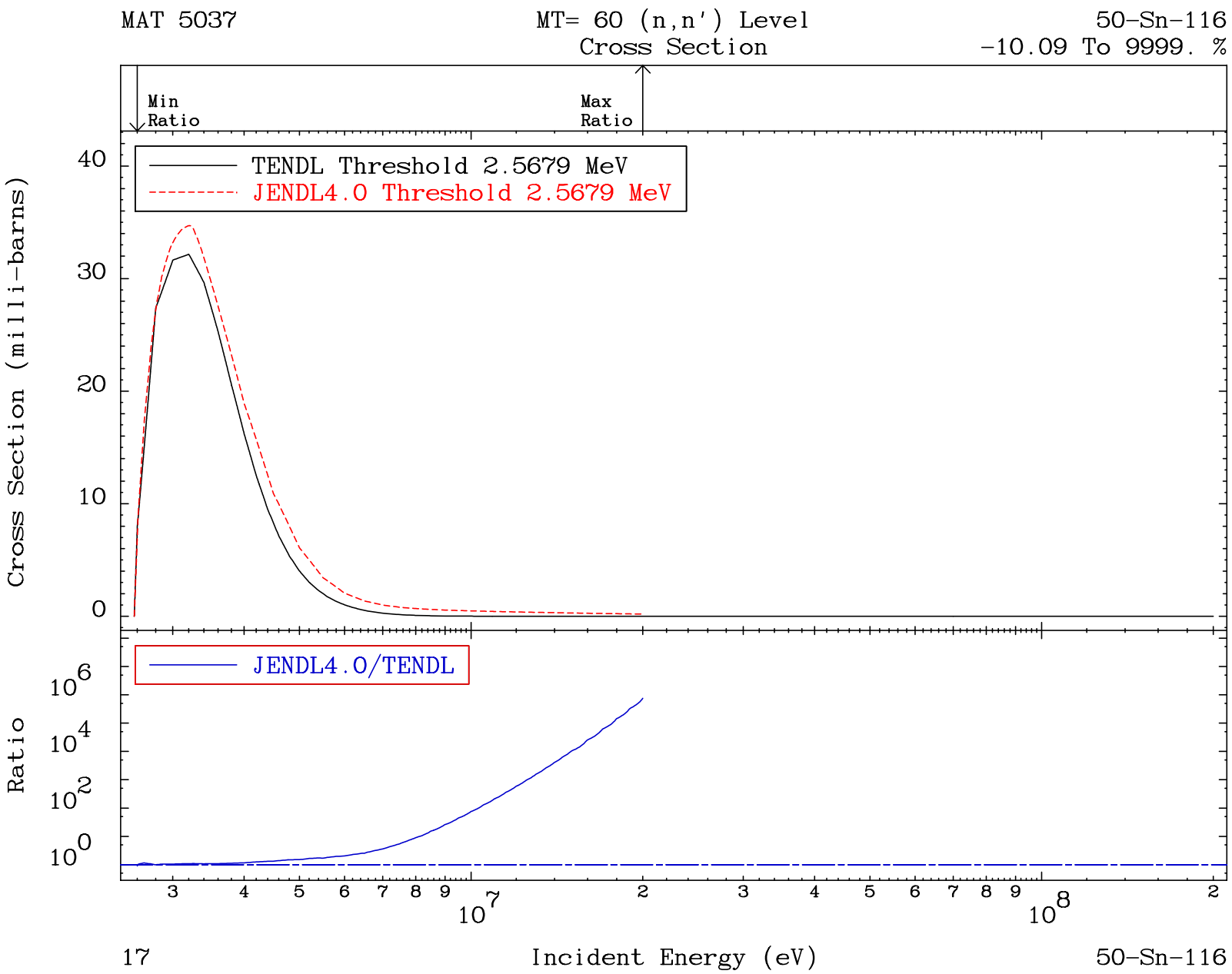

MAT 5037
MT= 55 (n,n') Level
Cross Section
50-Sn-116
-37.14 To 64.87 %
Max Ratio
Min Ratio
TENDL Threshold 2.2447 MeV
JENDL4.0 Threshold 2.2447 MeV
Cross Section (milli-barns)
200
150
100
50
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
50-Sn-116

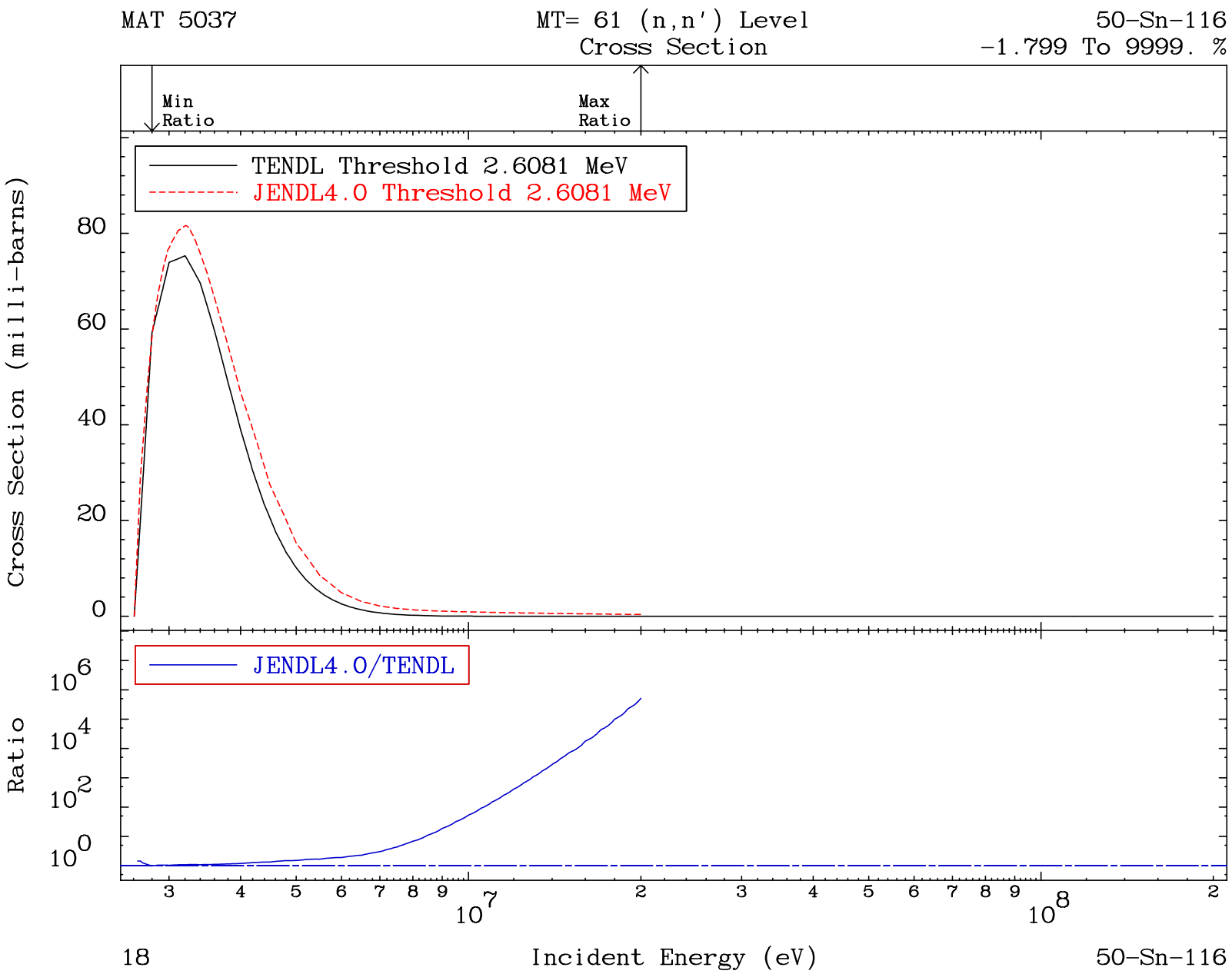

MAT 5037
MT= 56 (n,n') Level
Cross Section
50-Sn-116
2.745 To 70.60 %
Min Ratio
Max Ratio
TENDL Threshold 2.2859 MeV
JENDL4.0 Threshold 2.2859 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
1.6
1.2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
50-Sn-116

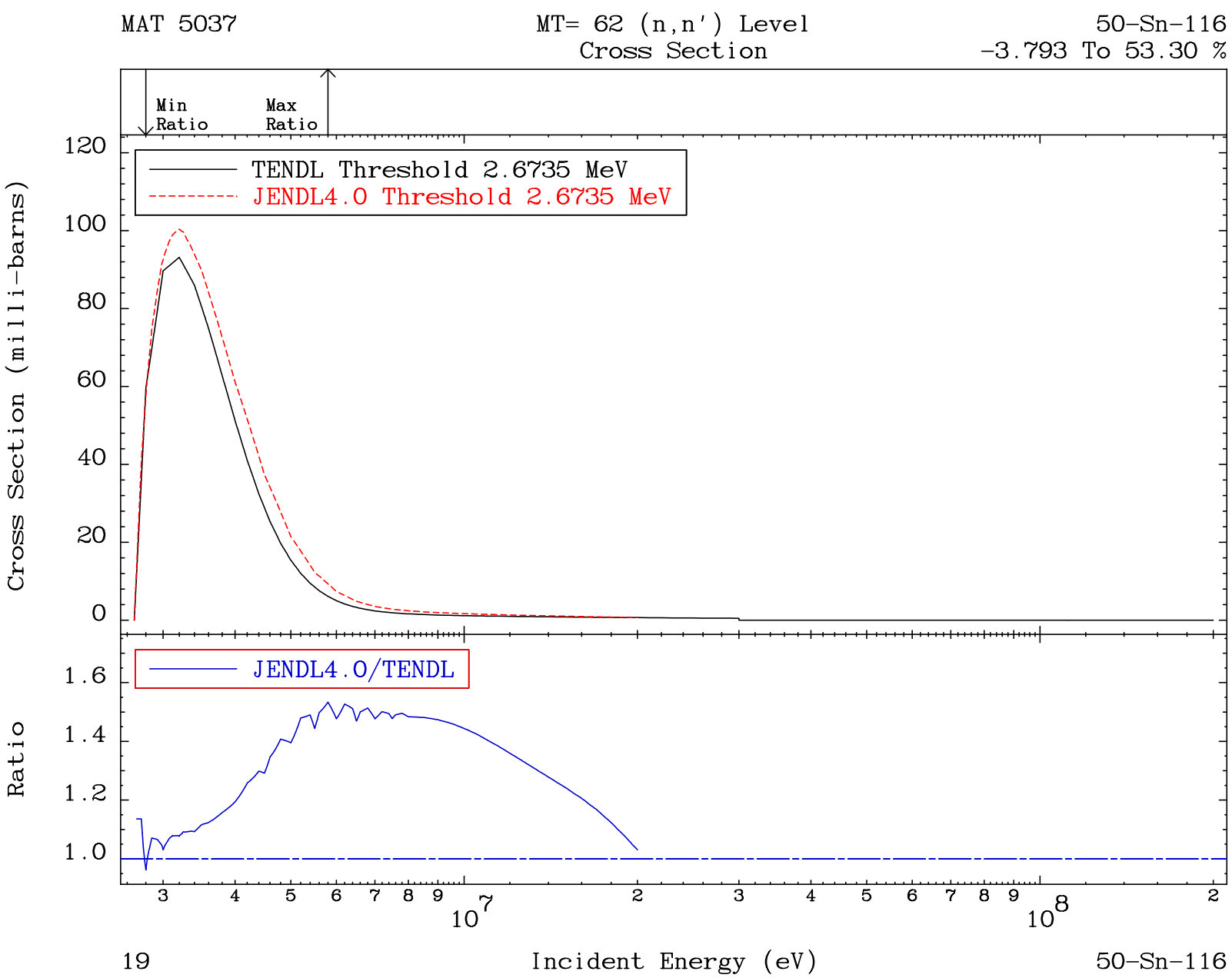

MAT 5037
MT= 57 (n,n') Level
Cross Section
50-Sn-116
-15.48 To 145.6 %
Min Ratio
Max Ratio
TENDL Threshold 2.3866 MeV
JENDL4.0 Threshold 2.3866 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
2.5
2.0
1.5
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
50-Sn-116

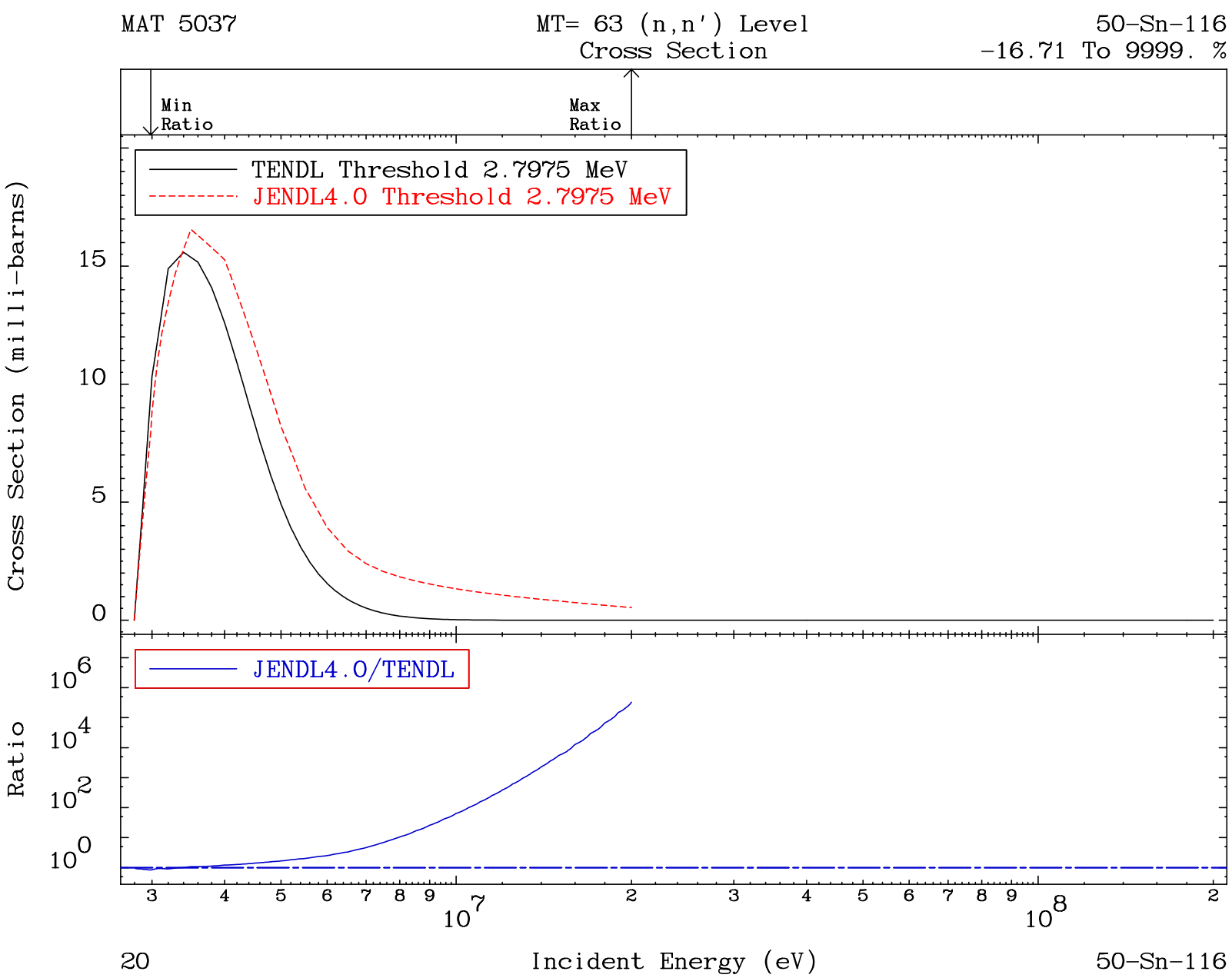

MAT 5037
MT= 58 (n,n') Level
Cross Section
50-Sn-116
-95.18 To 48.12 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.4117 MeV
JENDL4.0 Threshold 2.4117 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
4
3
5
6
7
8
9
10^7
2
10^8
15
Incident Energy (eV)
50-Sn-116

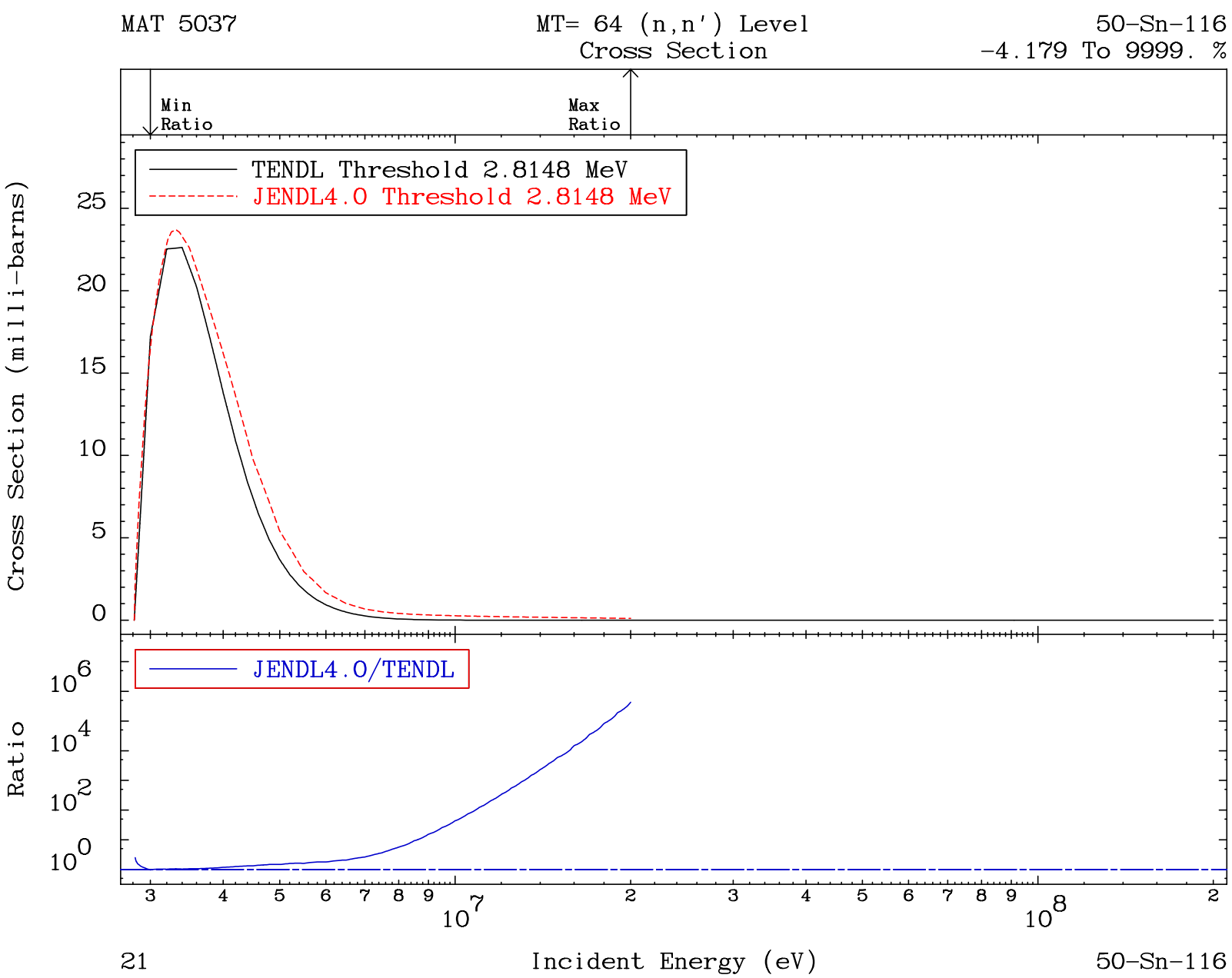

MAT 5037
MT= 59 (n,n') Level
Cross Section
50-Sn-116
-0.936 To 81.54 %
Min Ratio
Max Ratio
TENDL Threshold 2.5512 MeV
JENDL4.0 Threshold 2.5512 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
2.0
1.6
1.2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
50-Sn-116

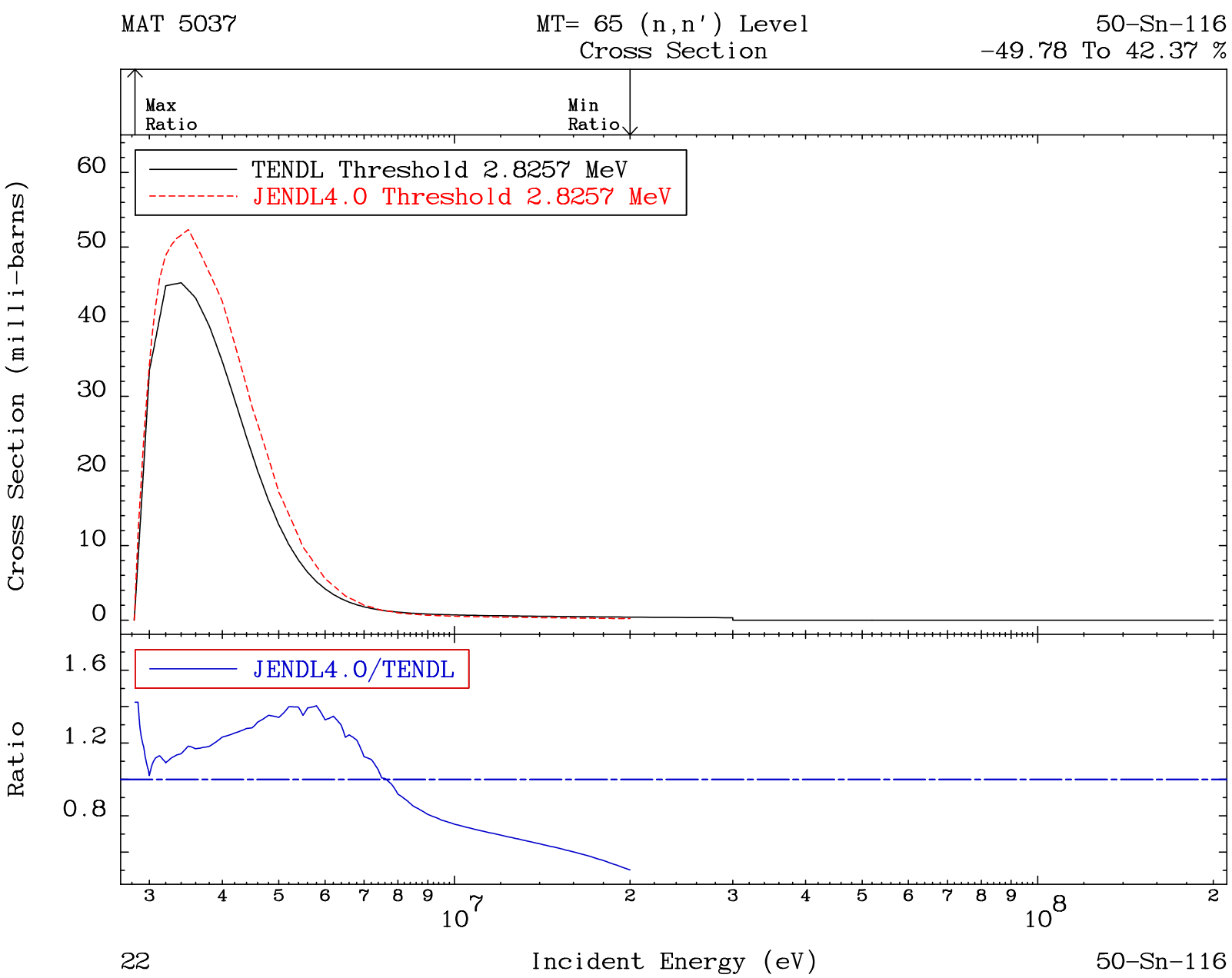

MAT 5037
MT= 60 (n,n') Level
Cross Section
50-Sn-116
-10.09 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.5679 MeV
JENDL4.0 Threshold 2.5679 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
50-Sn-116

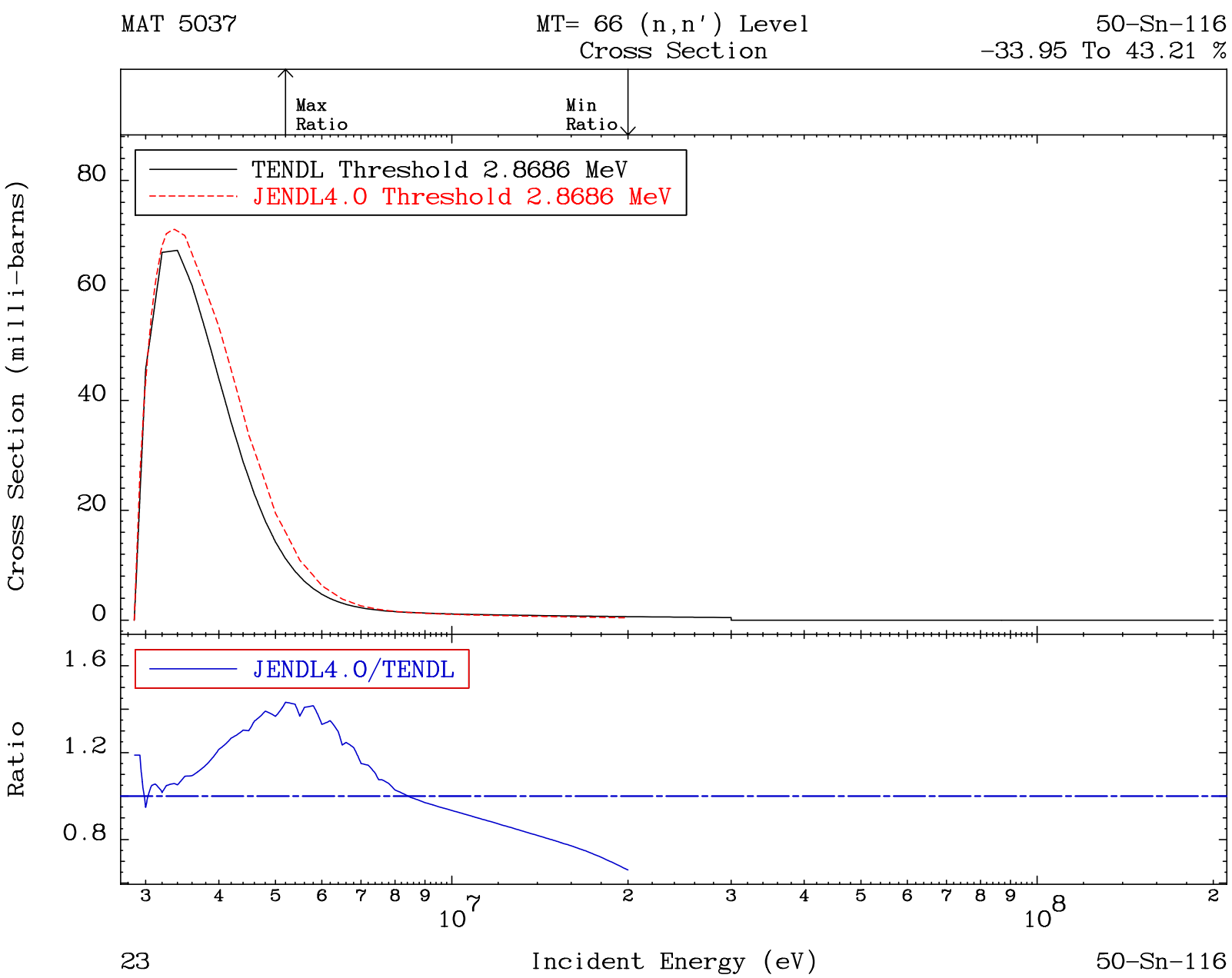

MAT 5037
MT= 61 (n,n') Level
Cross Section
50-Sn-116
-1.799 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6081 MeV
JENDL4.0 Threshold 2.6081 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
50-Sn-116

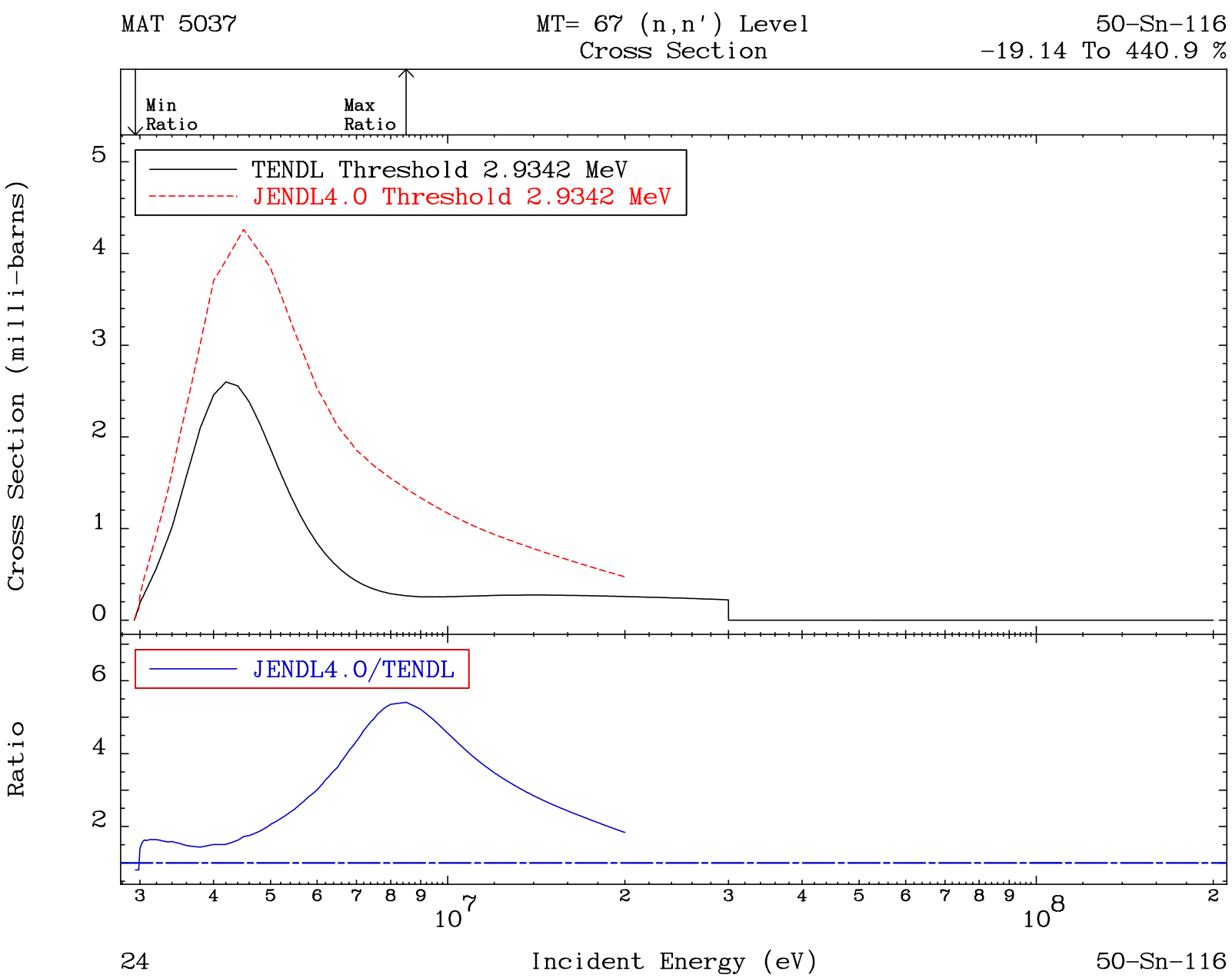

MAT 5037
MT= 62 (n,n') Level
Cross Section
50-Sn-116
-3.793 To 53.30 %
Min Ratio
Max Ratio
TENDL Threshold 2.6735 MeV
JENDL4.0 Threshold 2.6735 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.6
1.4
1.2
1.0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
19
Incident Energy (eV)
50-Sn-116

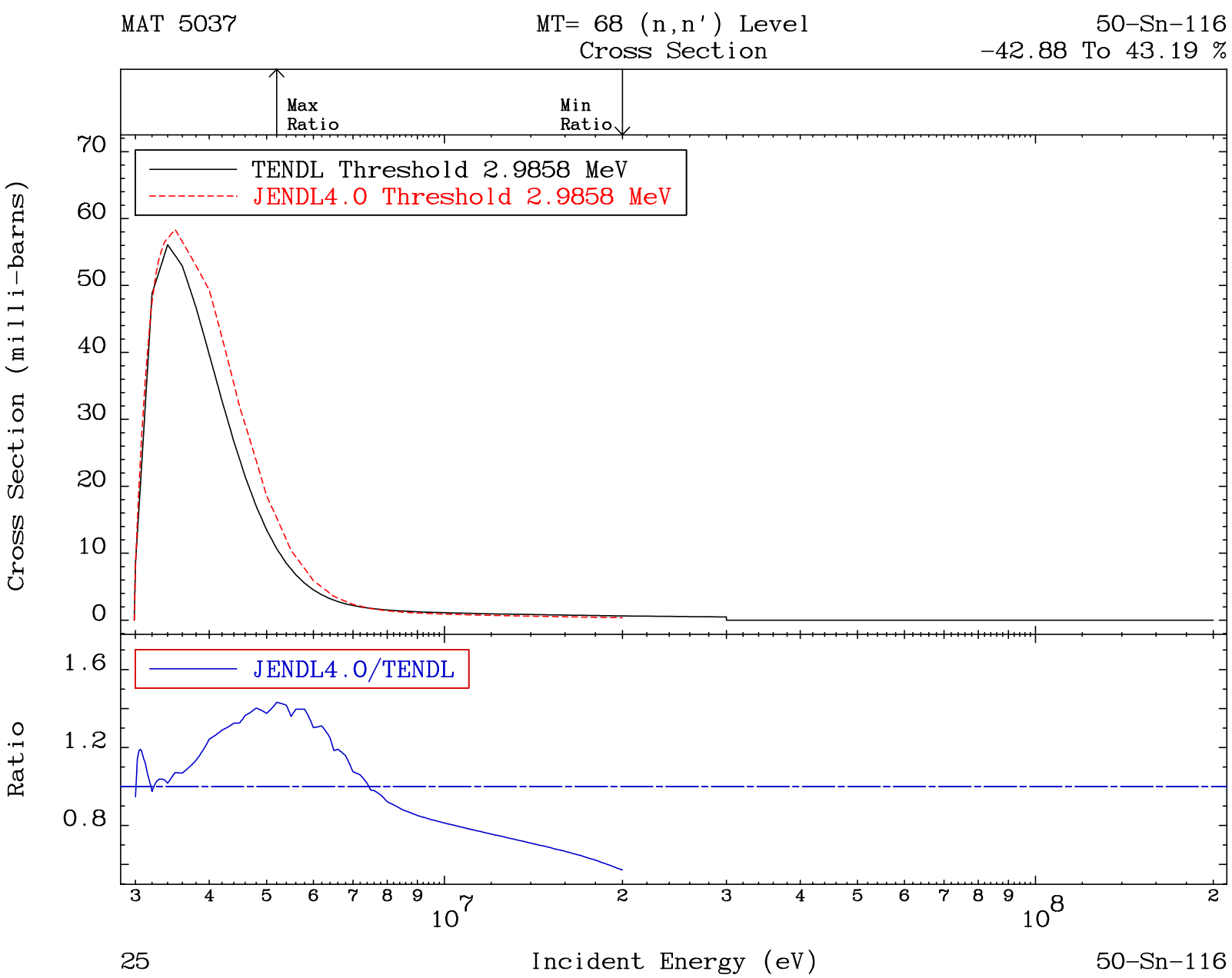

MAT 5037
MT= 63 (n,n') Level
Cross Section
50-Sn-116
-16.71 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.7975 MeV
JENDL4.0 Threshold 2.7975 MeV
Cross Section (milli-barns)
15
10
5
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
20
Incident Energy (eV)
50-Sn-116

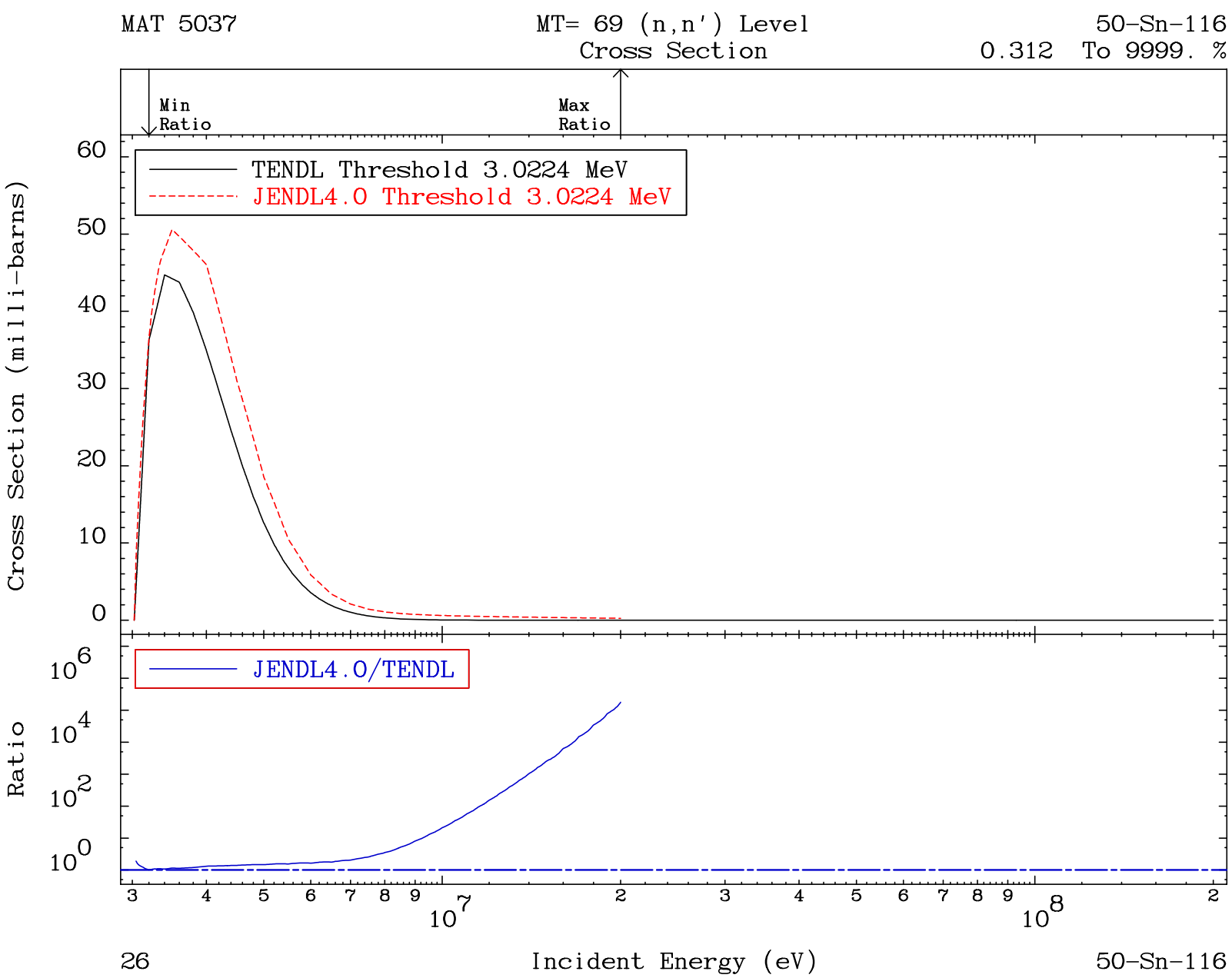

MAT 5037
MT= 64 (n,n') Level
Cross Section
50-Sn-116
-4.179 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8148 MeV
JENDL4.0 Threshold 2.8148 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
21
Incident Energy (eV)
50-Sn-116

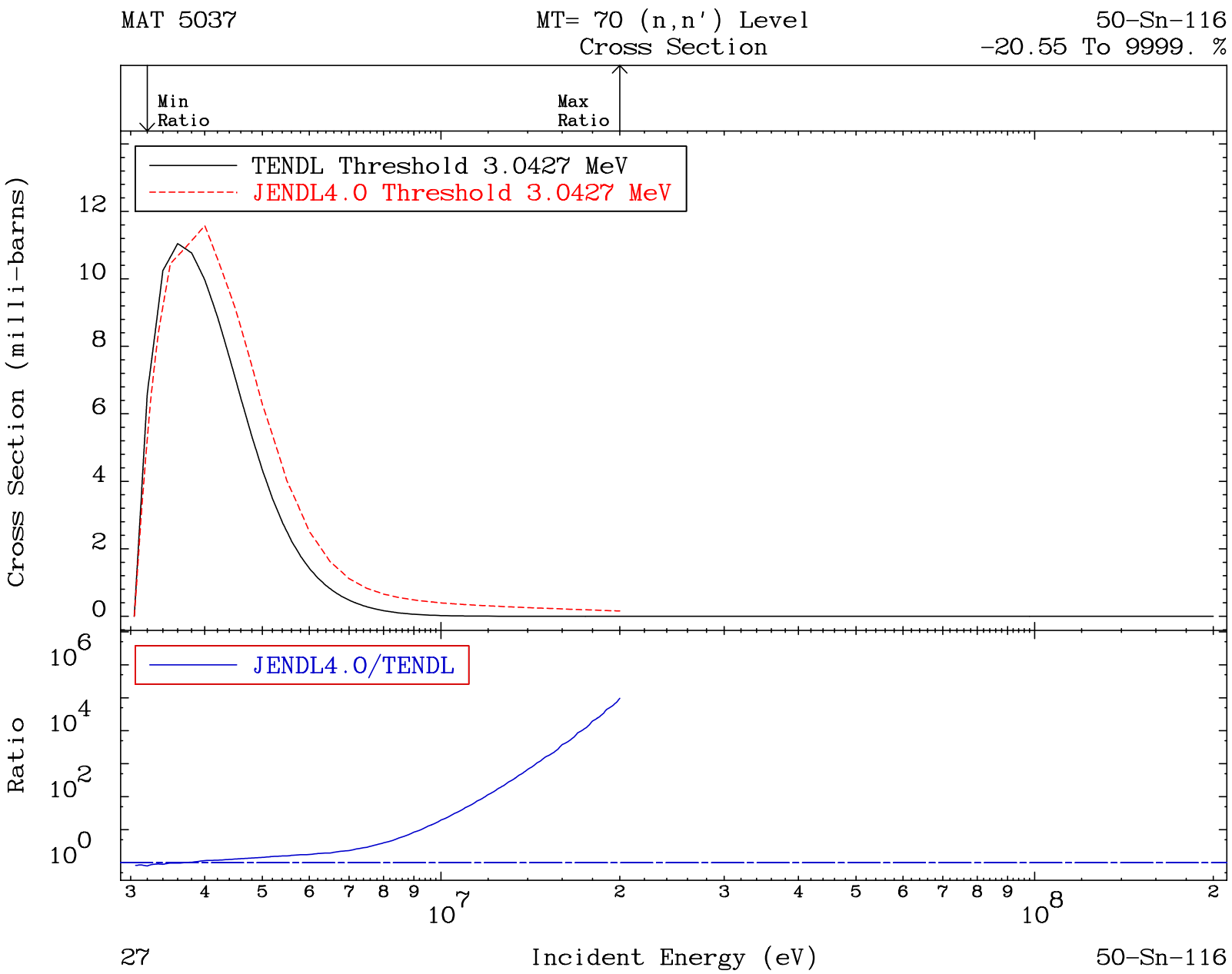

MAT 5037
MT= 65 (n,n') Level
Cross Section
50-Sn-116
-49.78 To 42.37 %
Max Ratio
Min Ratio
TENDL Threshold 2.8257 MeV
JENDL4.0 Threshold 2.8257 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
50-Sn-116

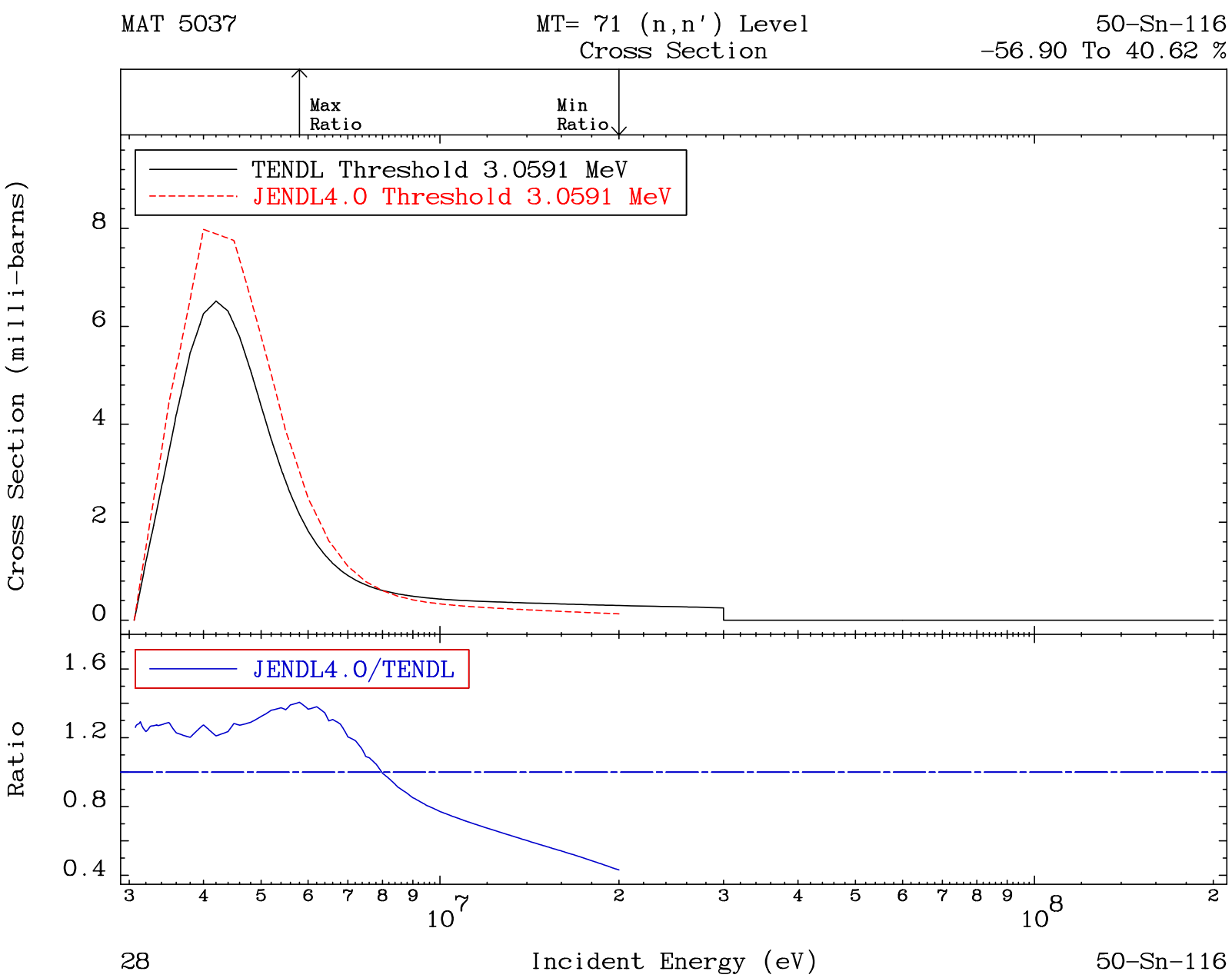

MAT 5037
MT= 66 (n,n') Level
Cross Section
50-Sn-116
-33.95 To 43.21 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.8686 MeV
JENDL4.0 Threshold 2.8686 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
23
Incident Energy (eV)
50-Sn-116

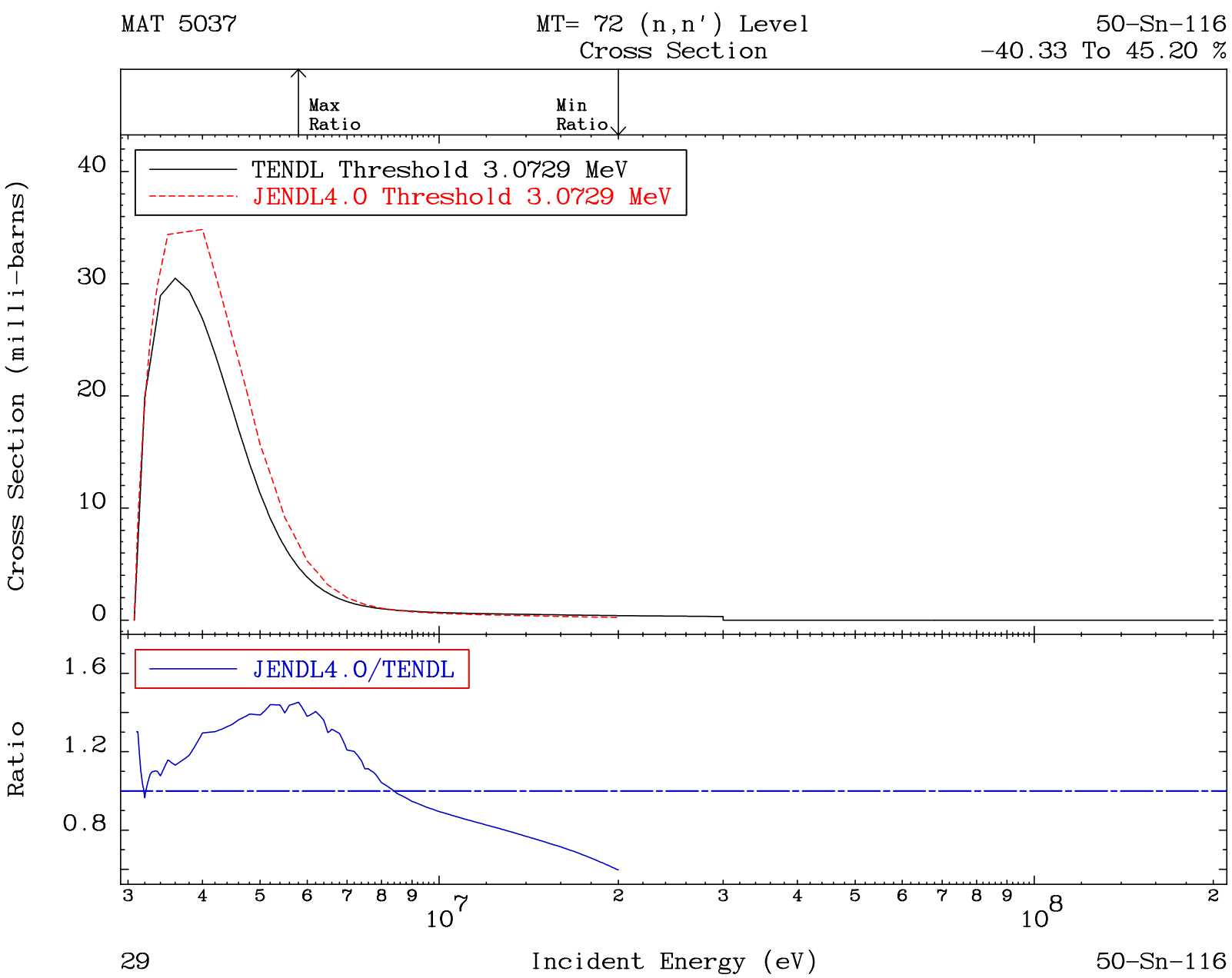

MAT 5037
MT= 67 (n,n') Level
Cross Section
50-Sn-116
-19.14 To 440.9 %
Min Ratio
Max Ratio
TENDL Threshold 2.9342 MeV
JENDL4.0 Threshold 2.9342 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
24
50-Sn-116

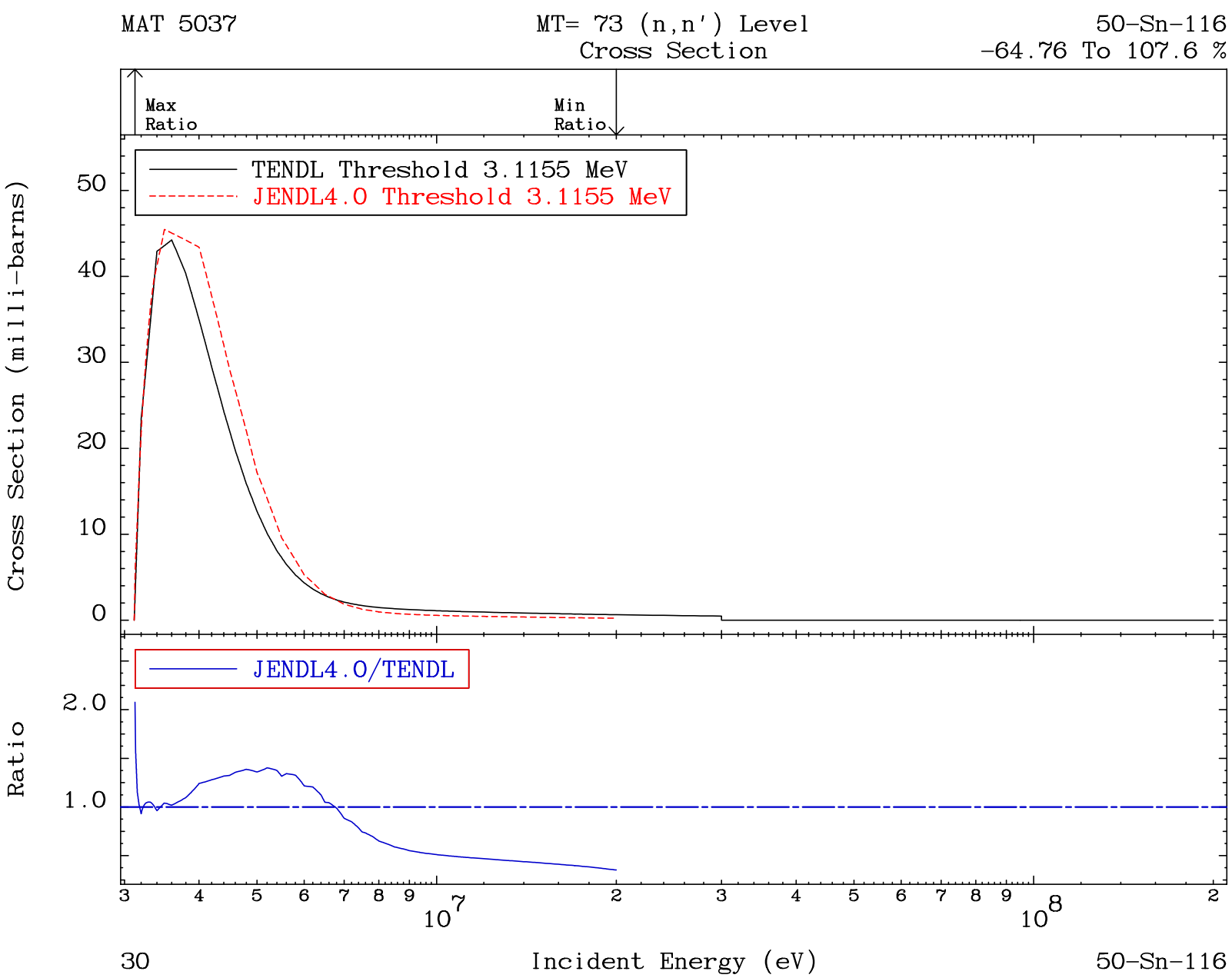

MAT 5037
MT= 68 (n,n') Level
Cross Section
50-Sn-116
-42.88 To 43.19 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.9858 MeV
JENDL4.0 Threshold 2.9858 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
25
Incident Energy (eV)
50-Sn-116

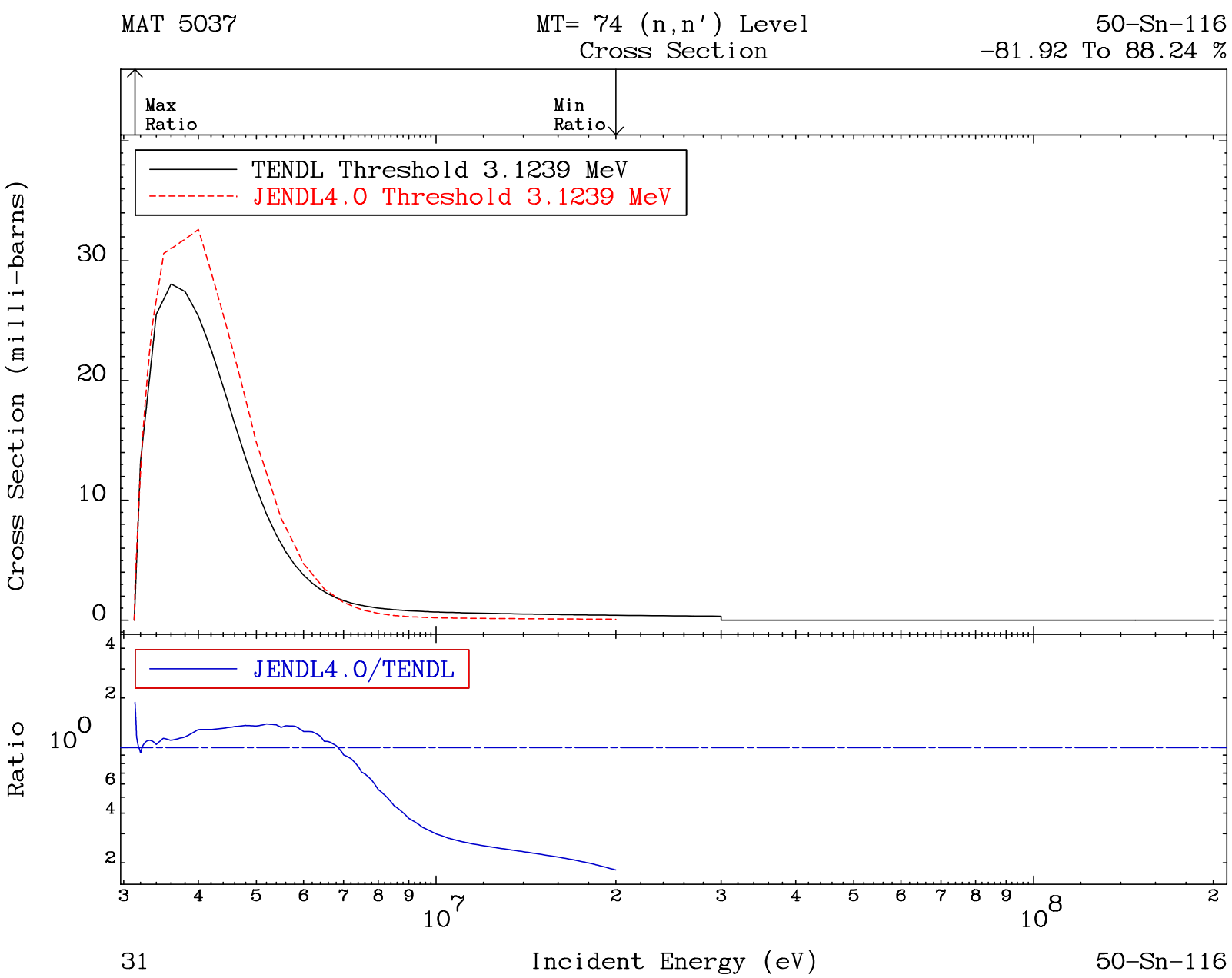

MAT 5037
MT= 69 (n,n') Level
Cross Section
50-Sn-116
0.312 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.0224 MeV
JENDL4.0 Threshold 3.0224 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
26
50-Sn-116

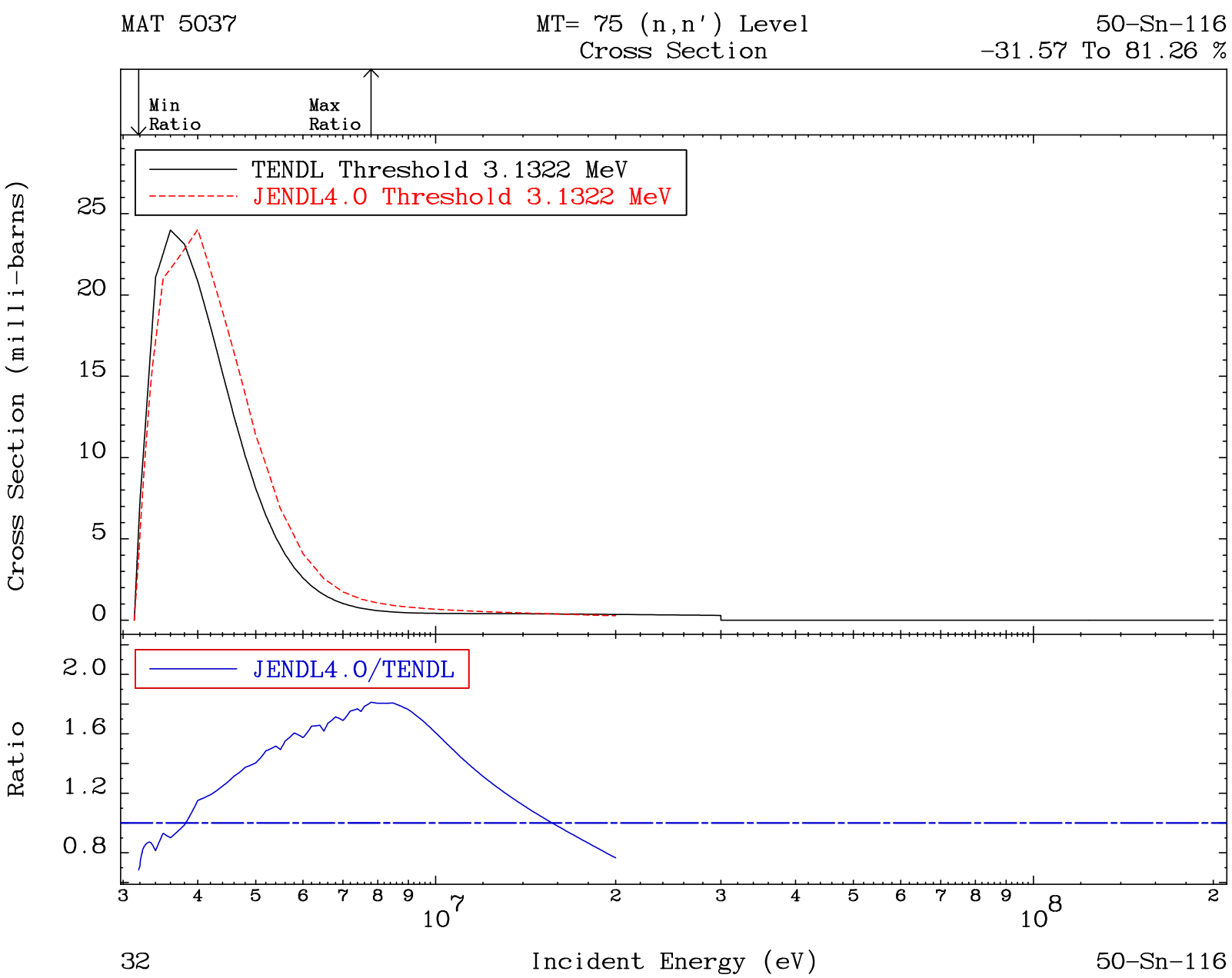

MAT 5037
MT= 70 (n,n') Level
Cross Section
50-Sn-116
-20.55 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.0427 MeV
JENDL4.0 Threshold 3.0427 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
27
50-Sn-116

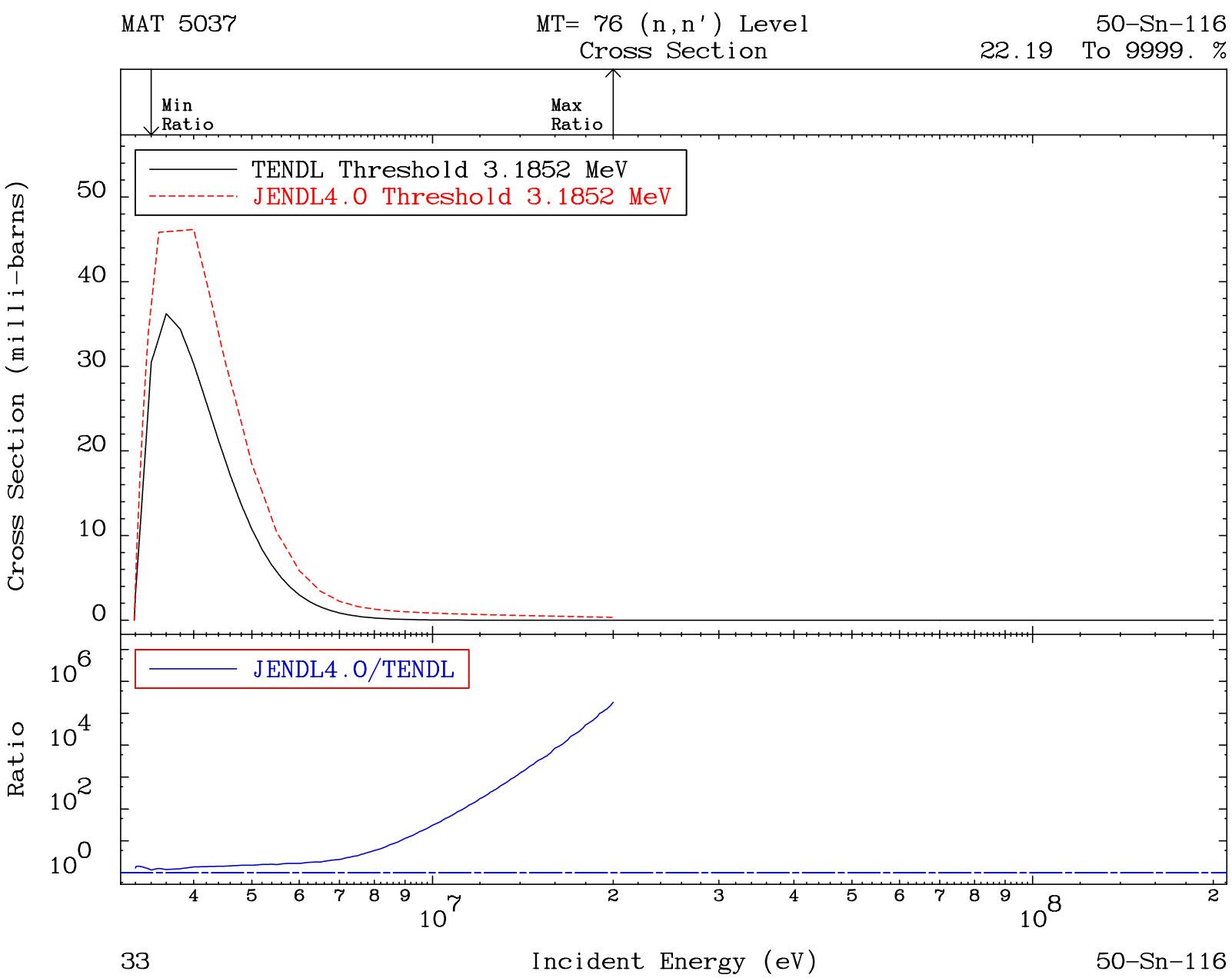

MAT 5037
MT= 71 (n,n') Level
Cross Section
50-Sn-116
-56.90 To 40.62 %
Max Ratio
Min Ratio
TENDL Threshold 3.0591 MeV
JENDL4.0 Threshold 3.0591 MeV
Cross Section (milli-barns)
0
2
4
6
8
JENDL4.0/TENDL
Ratio
0.4
0.8
1.2
1.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
50-Sn-116

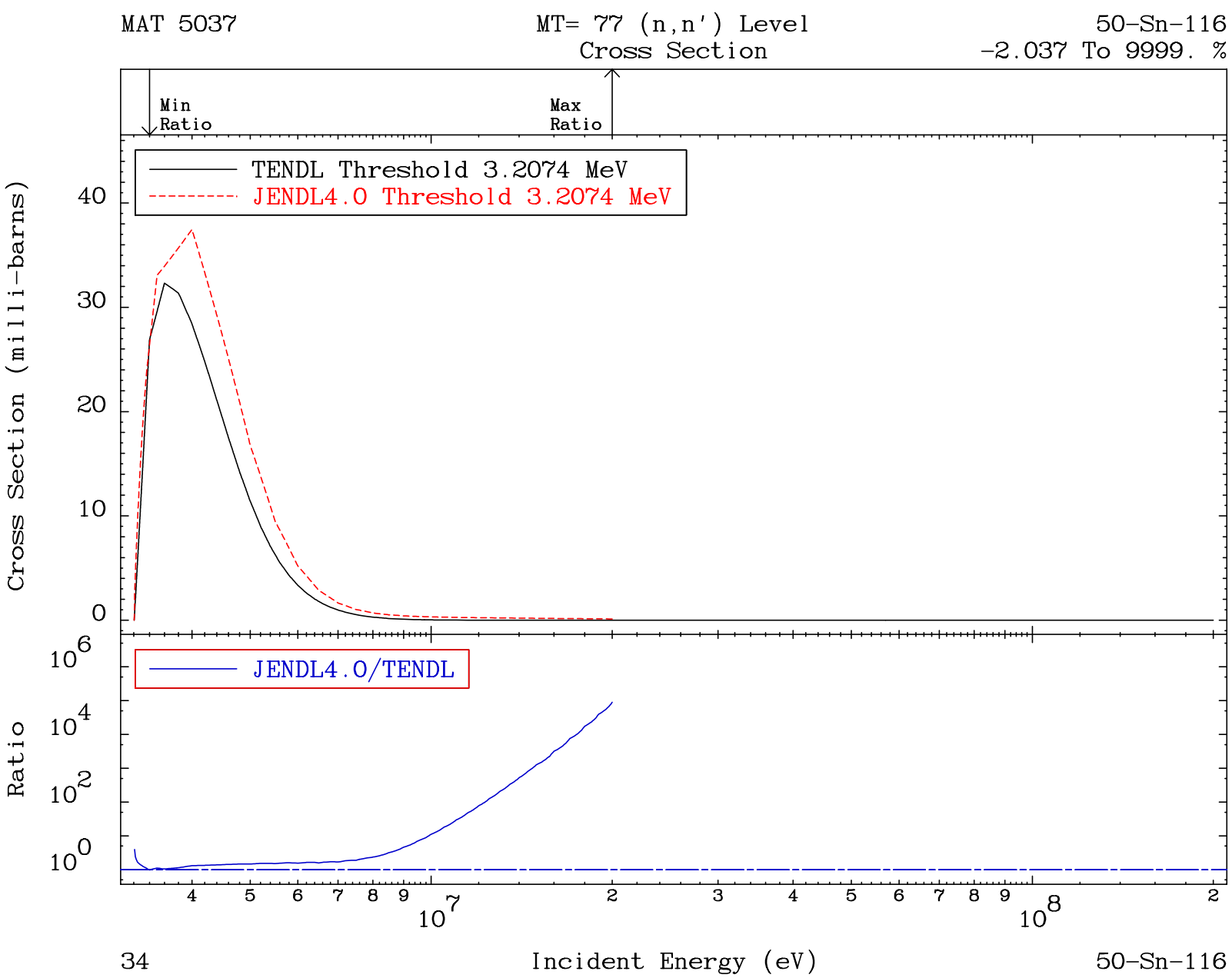

MAT 5037
MT= 72 (n,n') Level
Cross Section
50-Sn-116
-40.33 To 45.20 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.0729 MeV
JENDL4.0 Threshold 3.0729 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
50-Sn-116

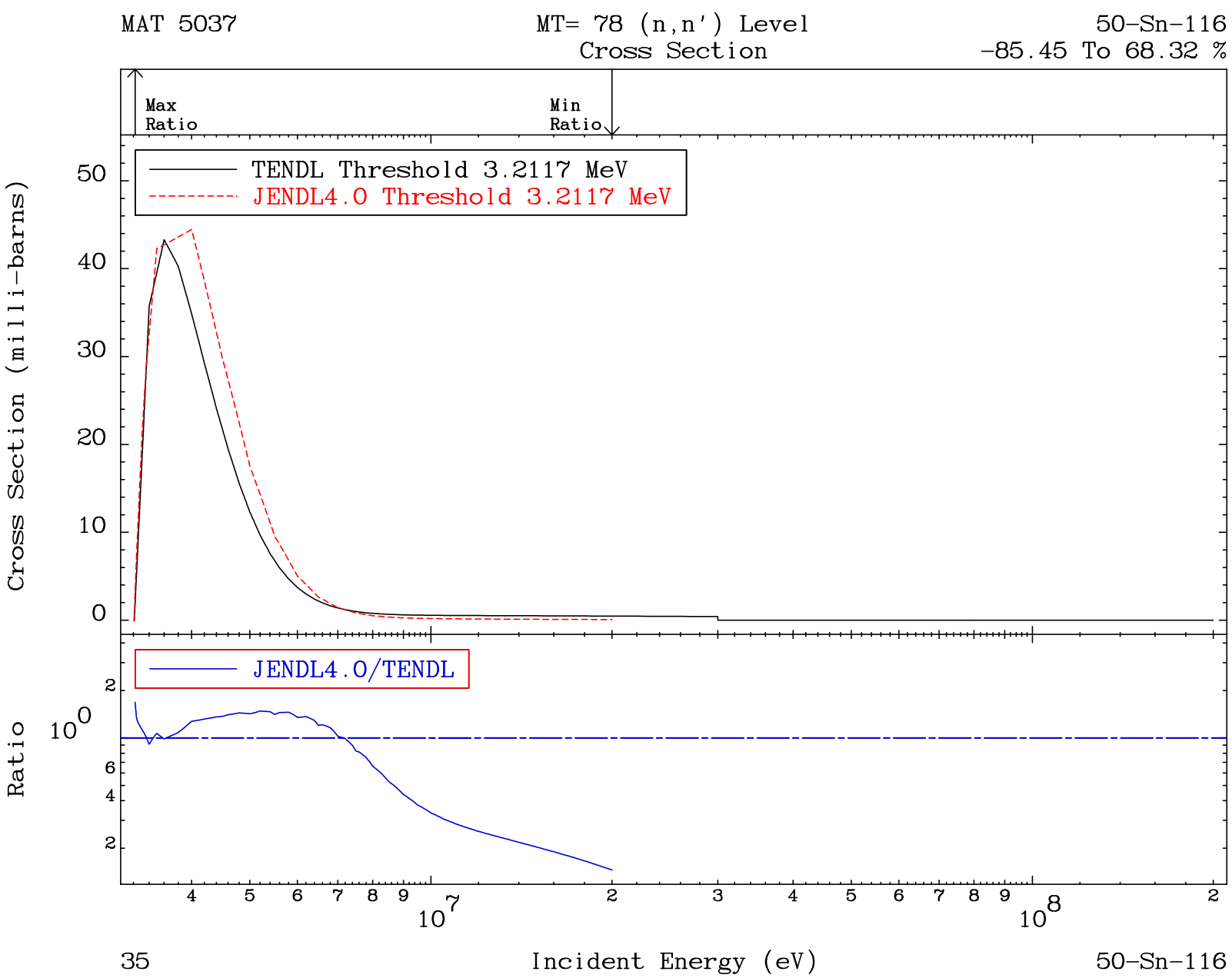

MAT 5037
MT= 73 (n,n') Level
Cross Section
50-Sn-116
-64.76 To 107.6 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.1155 MeV
JENDL4.0 Threshold 3.1155 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
2.0
1.0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
30
Incident Energy (eV)
50-Sn-116

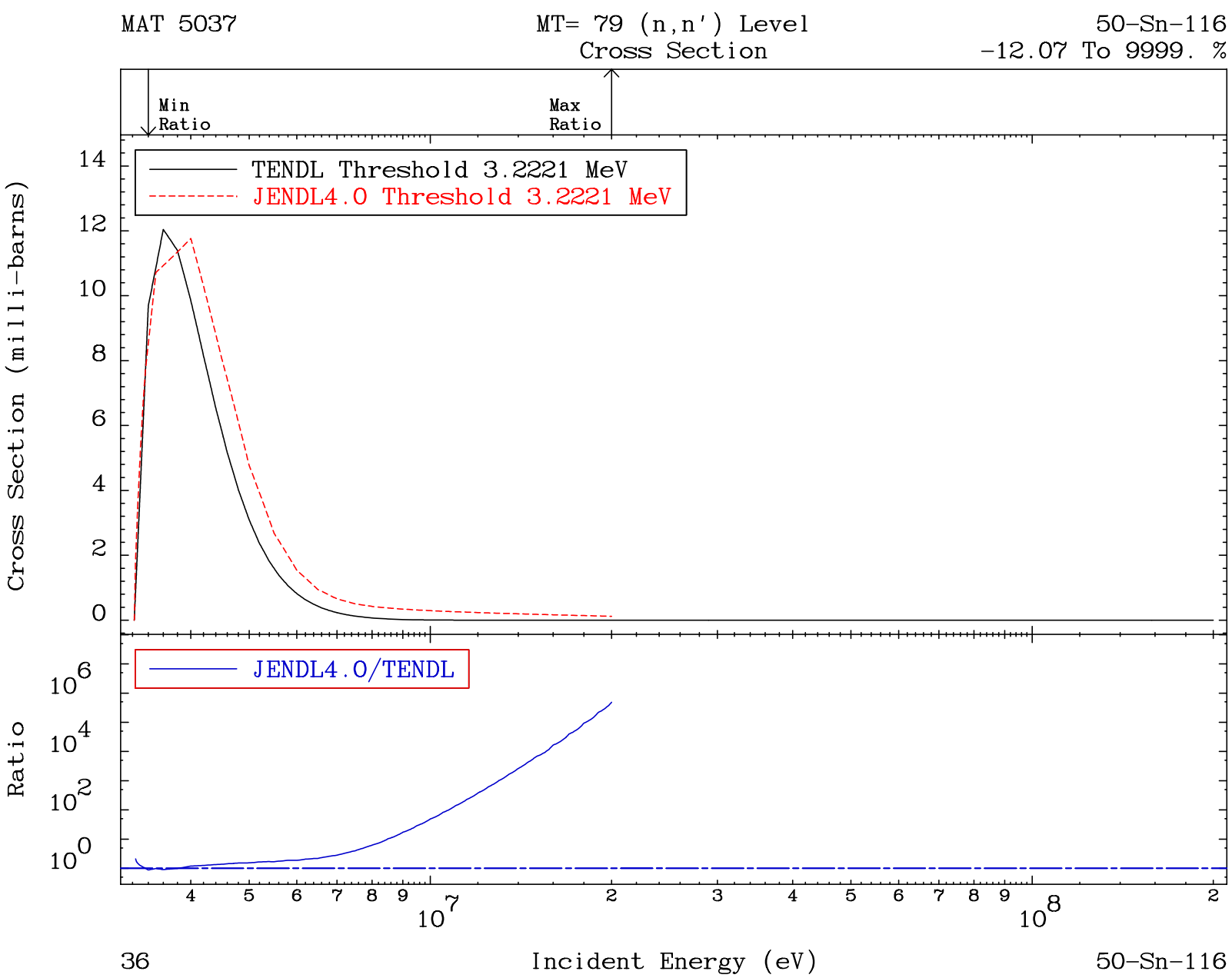

MAT 5037
MT= 74 (n,n') Level
Cross Section
50-Sn-116
-81.92 To 88.24 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.1239 MeV
JENDL4.0 Threshold 3.1239 MeV
Cross Section (milli-barns)
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
4
2
6
4
2
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
31
Incident Energy (eV)
50-Sn-116

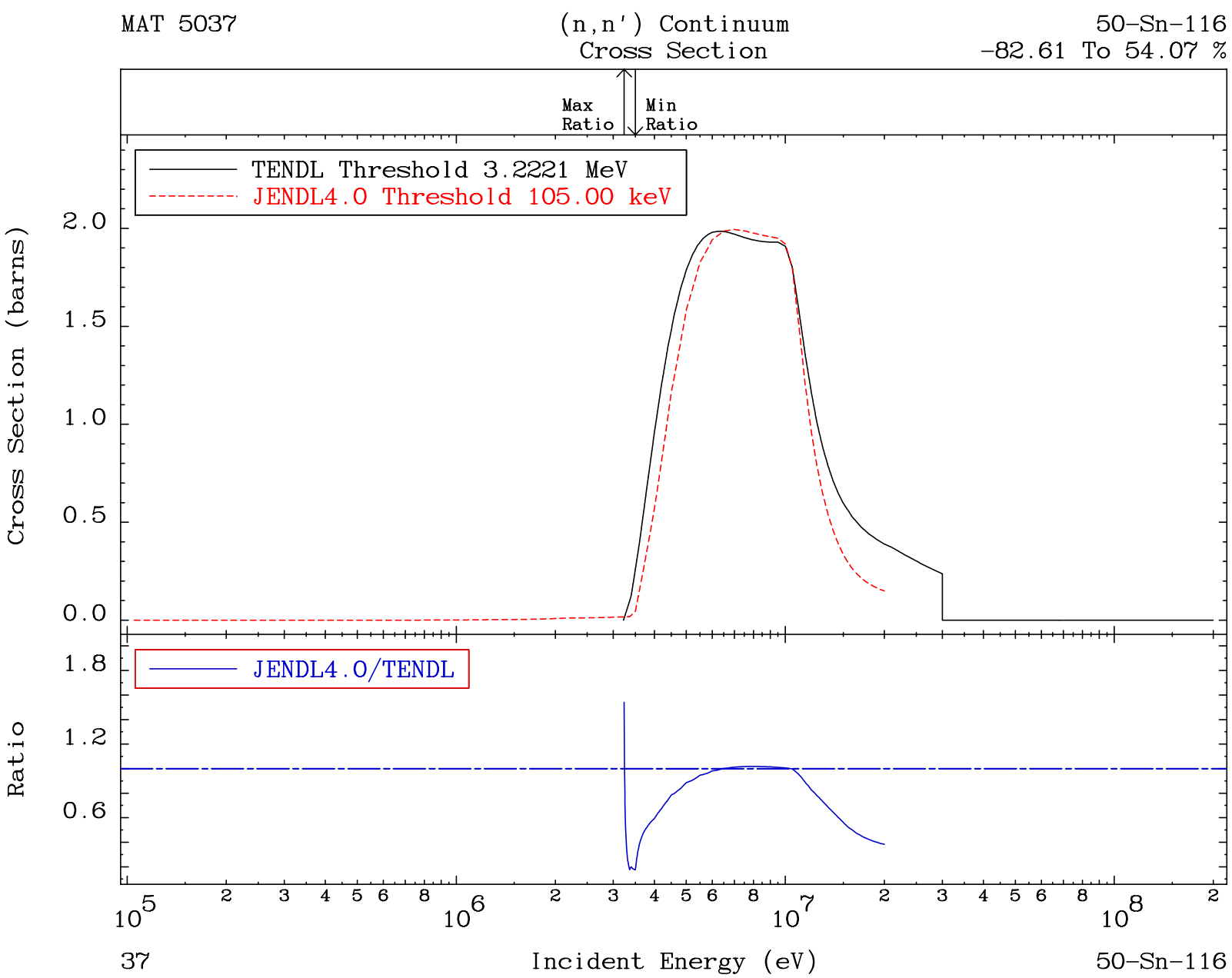

MAT 5037
MT= 75 (n,n') Level
Cross Section
50-Sn-116
-31.57 To 81.26 %
Min Ratio
Max Ratio
TENDL Threshold 3.1322 MeV
JENDL4.0 Threshold 3.1322 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
2.0
1.6
1.2
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
50-Sn-116

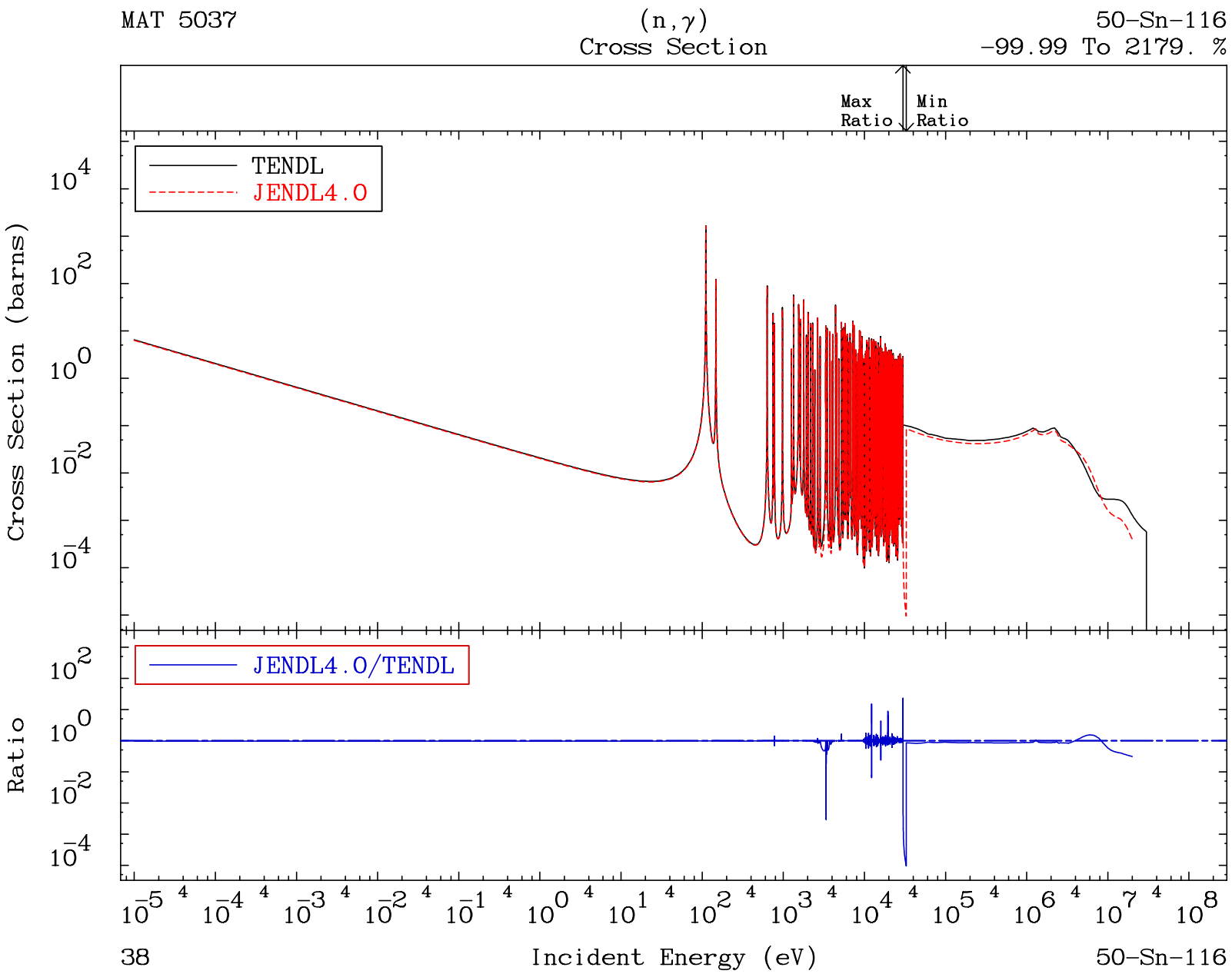

MAT 5037
MT= 76 (n,n') Level
Cross Section
50-Sn-116
22.19 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.1852 MeV
JENDL4.0 Threshold 3.1852 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
50-Sn-116

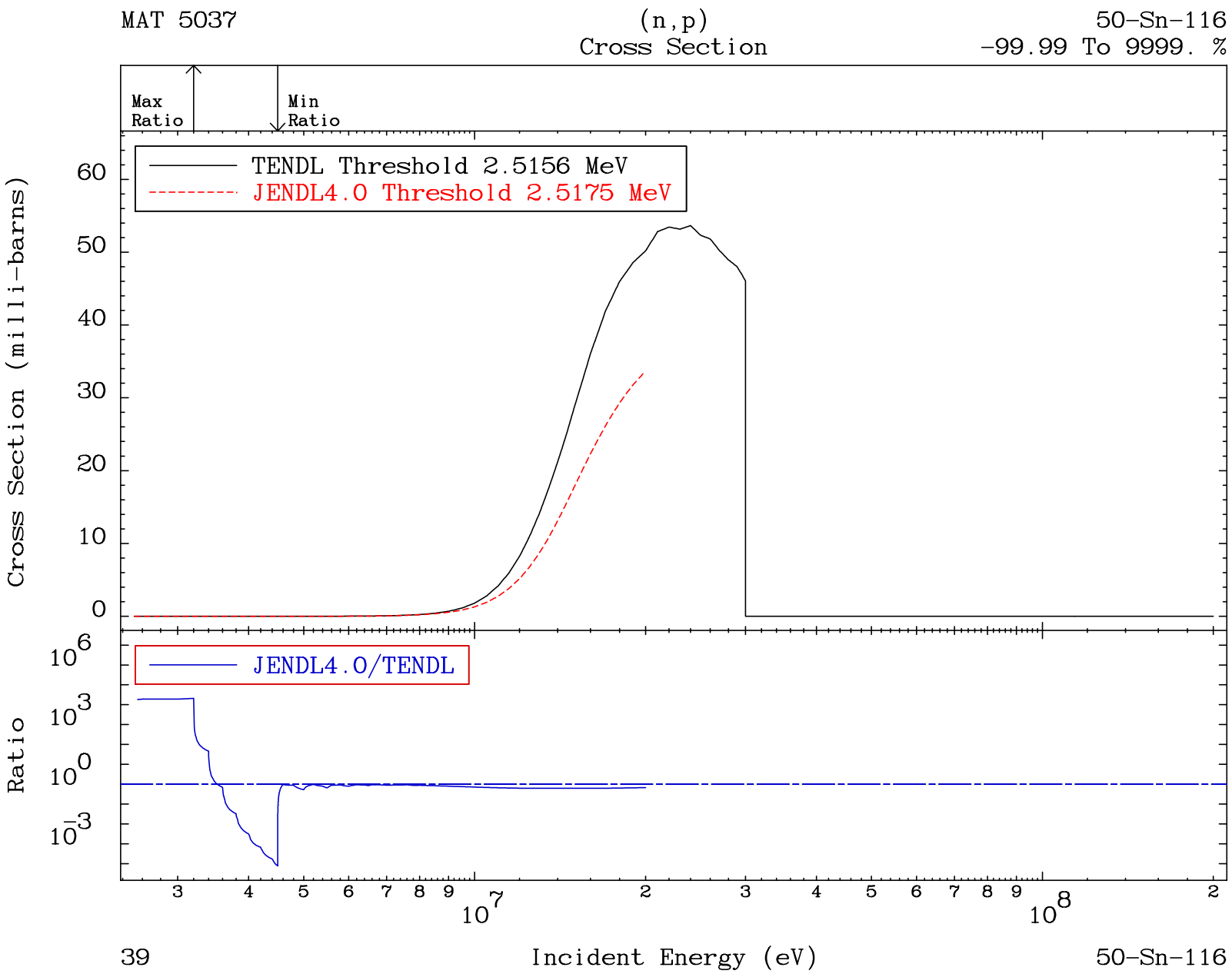

MAT 5037
MT= 77 (n,n') Level
Cross Section
50-Sn-116
-2.037 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 3.2074 MeV
JENDL4.0 Threshold 3.2074 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
50-Sn-116

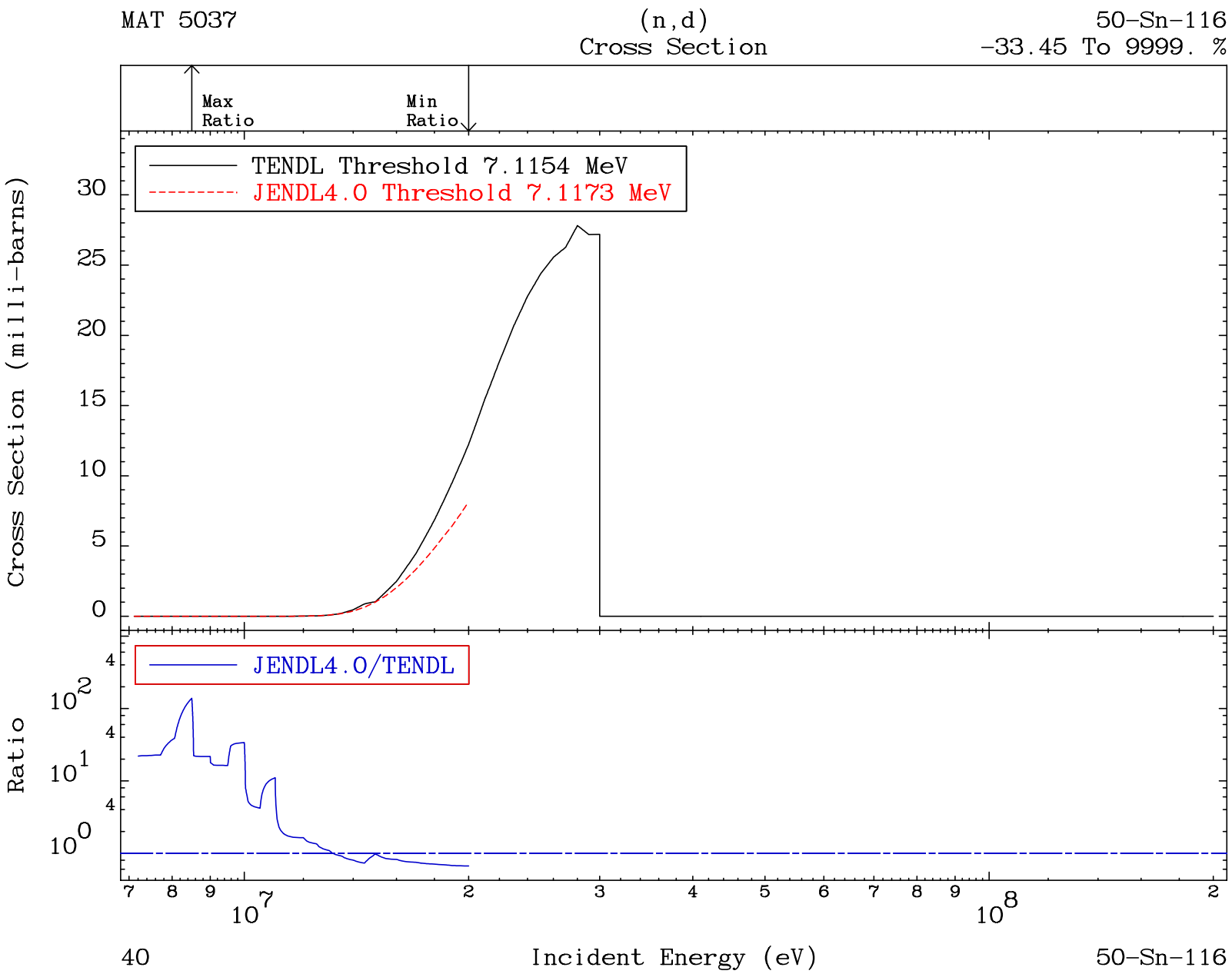

MAT 5037
MT= 78 (n,n') Level
Cross Section
50-Sn-116
-85.45 To 68.32 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.2117 MeV
JENDL4.0 Threshold 3.2117 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
2
10^0
6
4
2
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
50-Sn-116

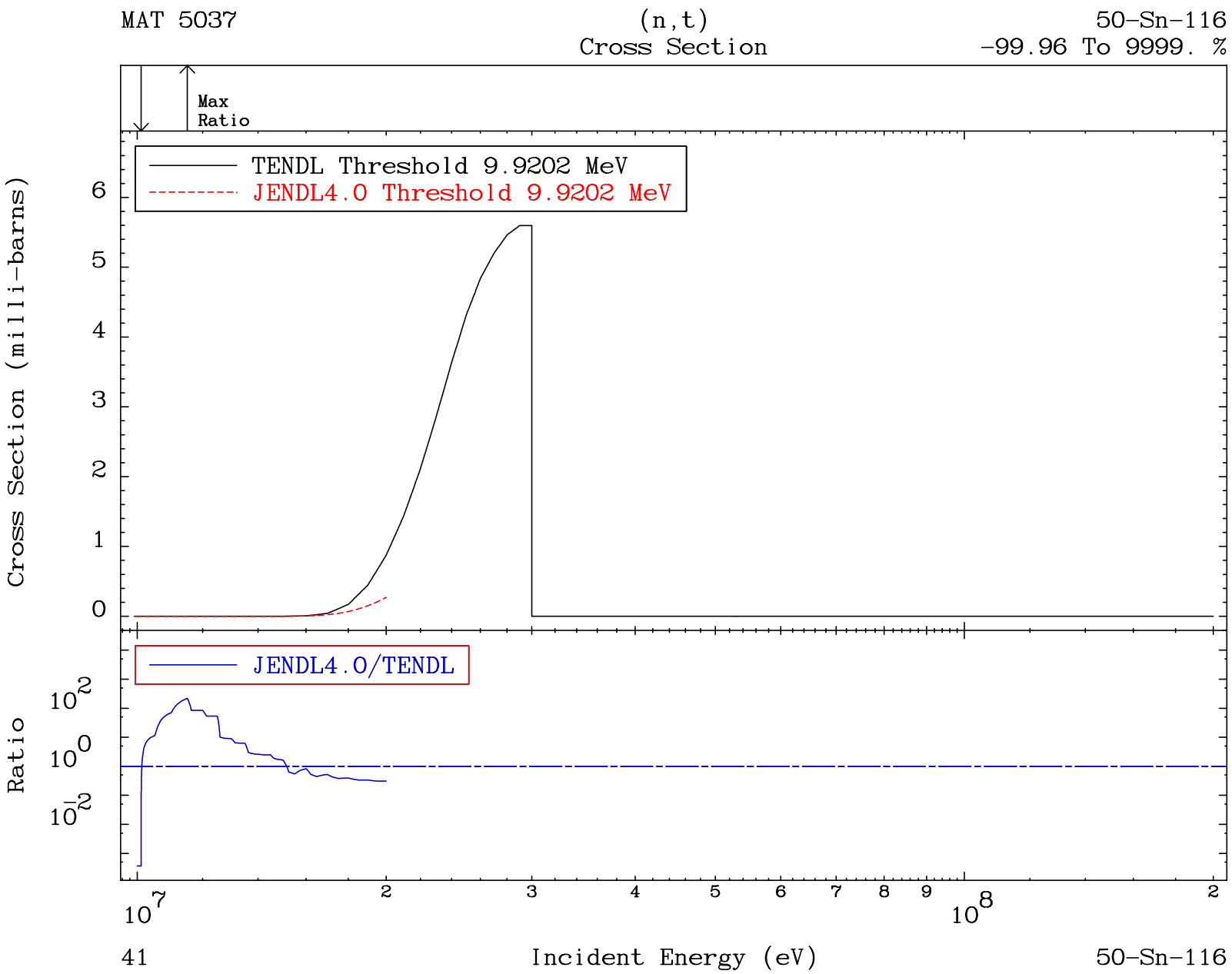

MAT 5037
MT= 79 (n,n') Level
Cross Section
50-Sn-116
-12.07 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 3.2221 MeV
JENDL4.0 Threshold 3.2221 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
36
50-Sn-116

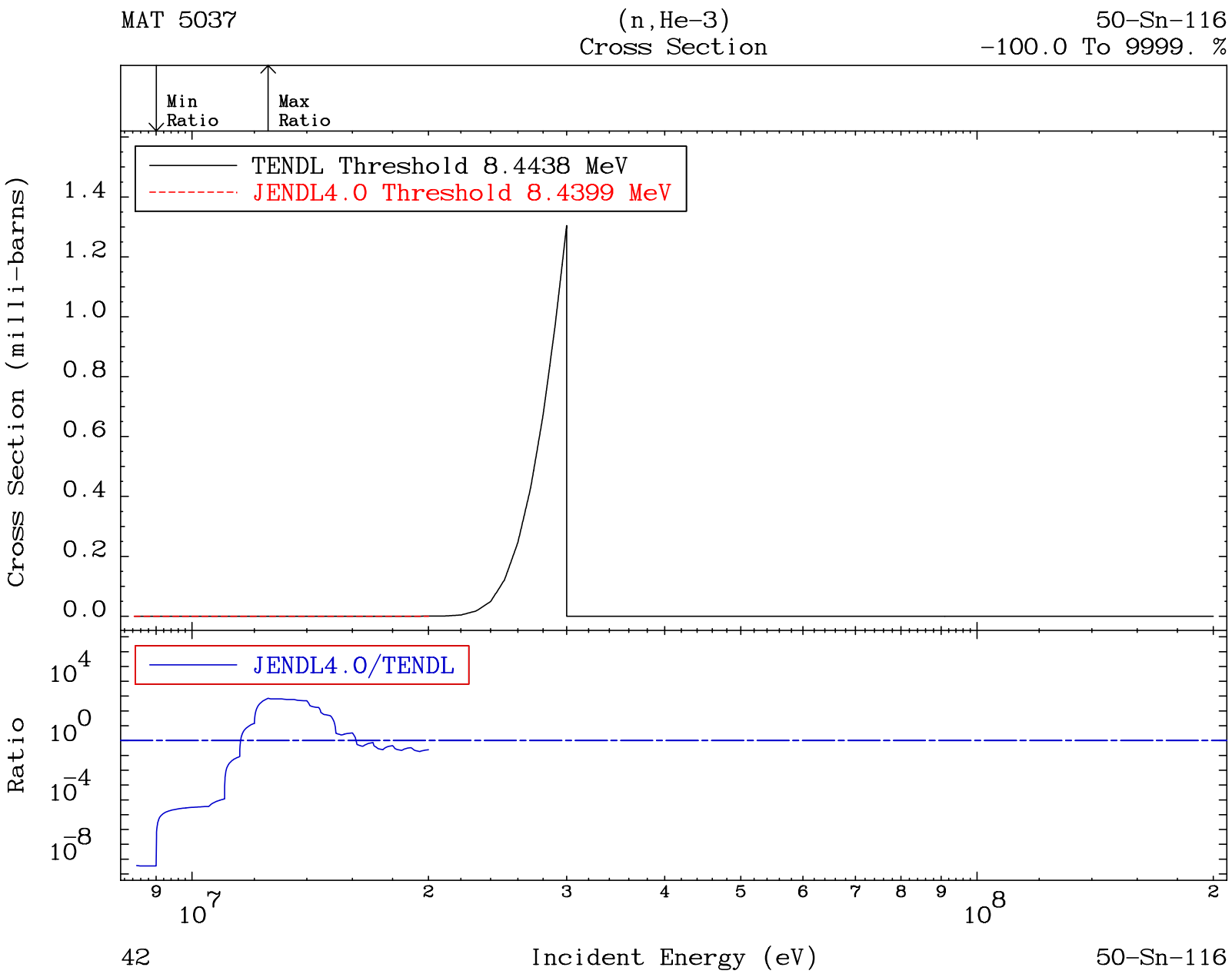

MAT 5037
(n,n') Continuum
Cross Section
50-Sn-116
-82.61 To 54.07 %
Max Ratio
Min Ratio
TENDL Threshold 3.2221 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
1.8
1.2
0.6
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
37
Incident Energy (eV)
50-Sn-116

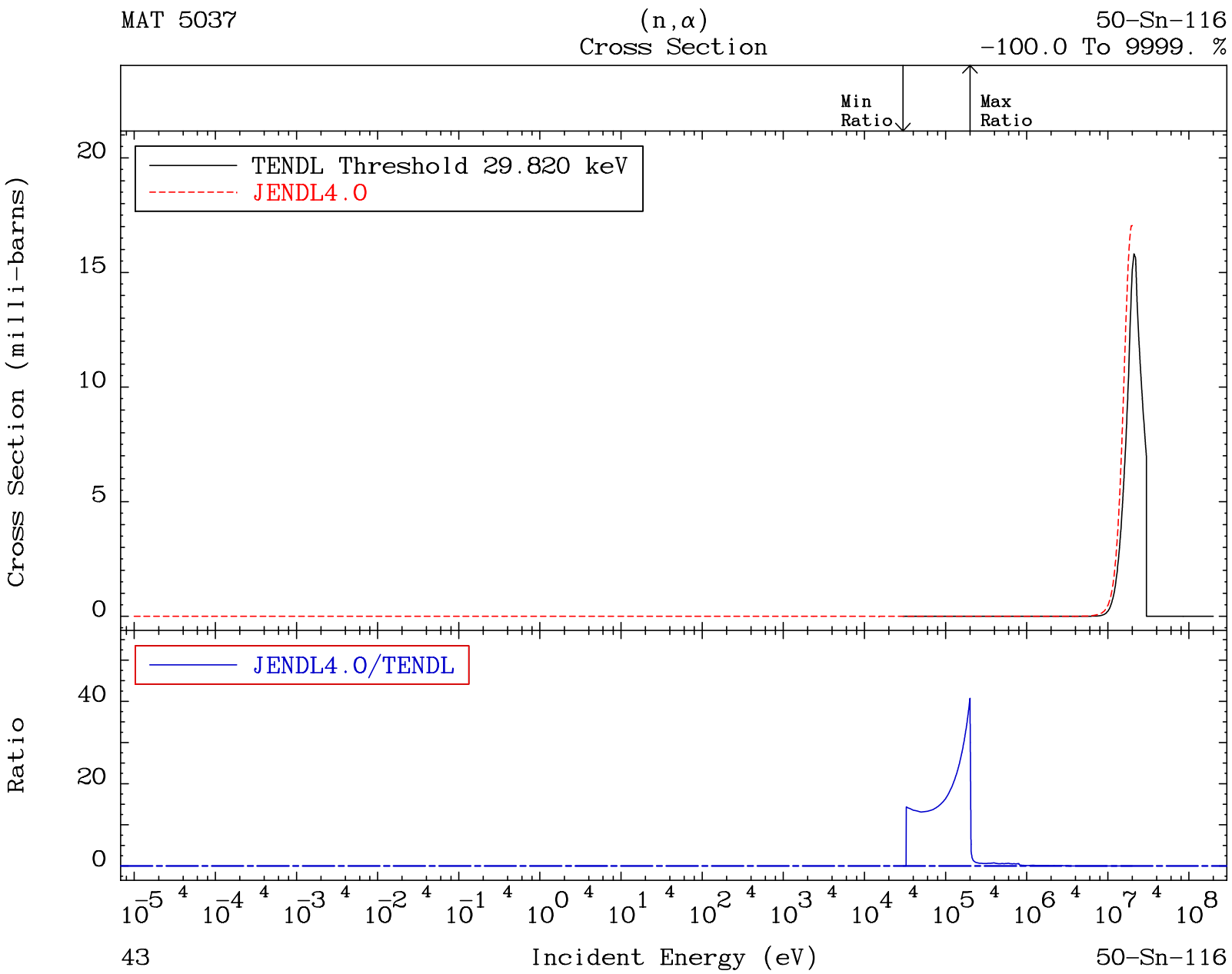

MAT 5037
(n,γ)
Cross Section
50-Sn-116
-99.99 To 2179. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
38
50-Sn-116

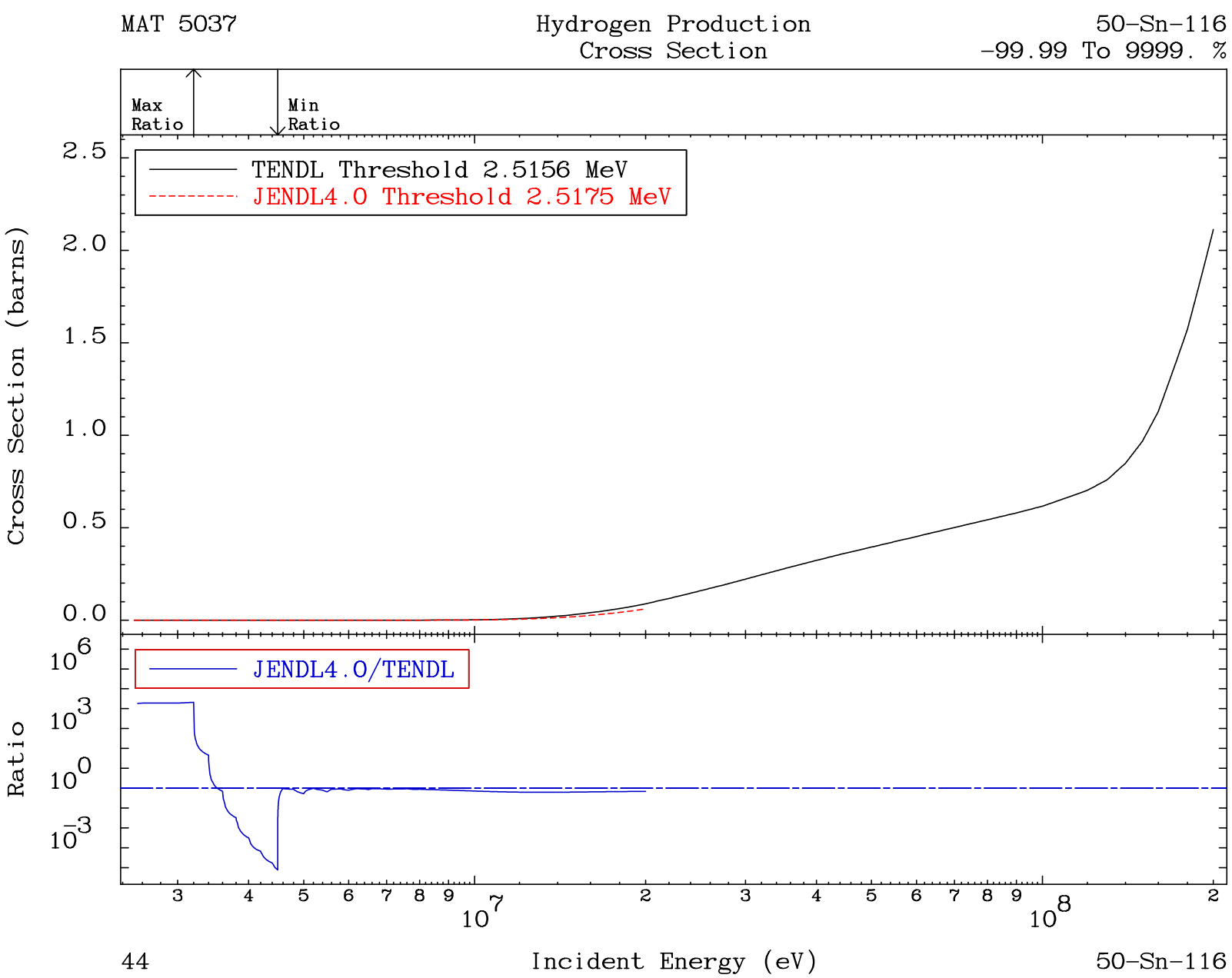

MAT 5037
(n,p)
Cross Section
50-Sn-116
-99.99 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.5156 MeV
JENDL4.0 Threshold 2.5175 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^6
10^3
10^0
10^-3
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
50-Sn-116

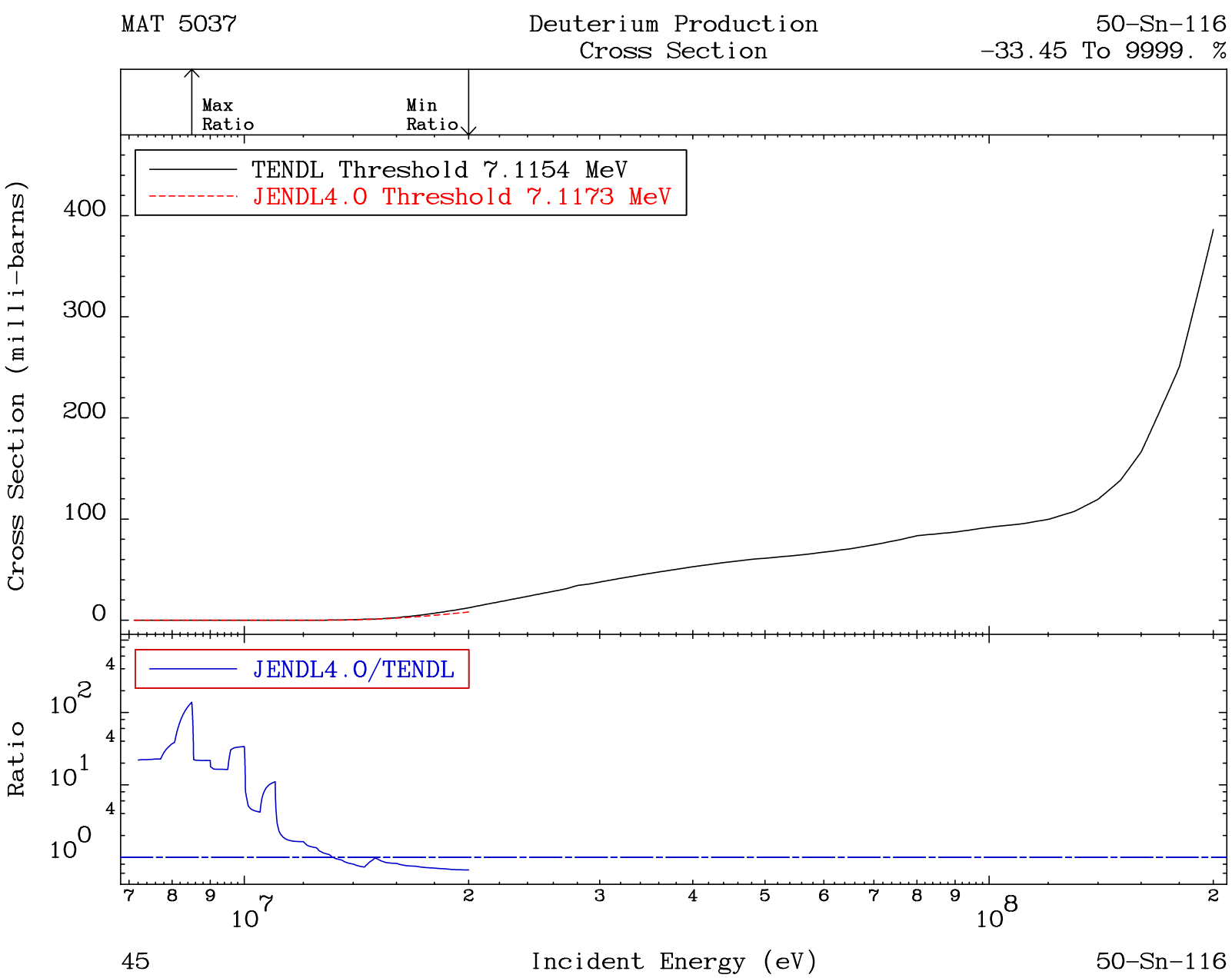

MAT 5037
(n,d)
Cross Section
50-Sn-116
-33.45 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.1154 MeV
JENDL4.0 Threshold 7.1173 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
40
50-Sn-116

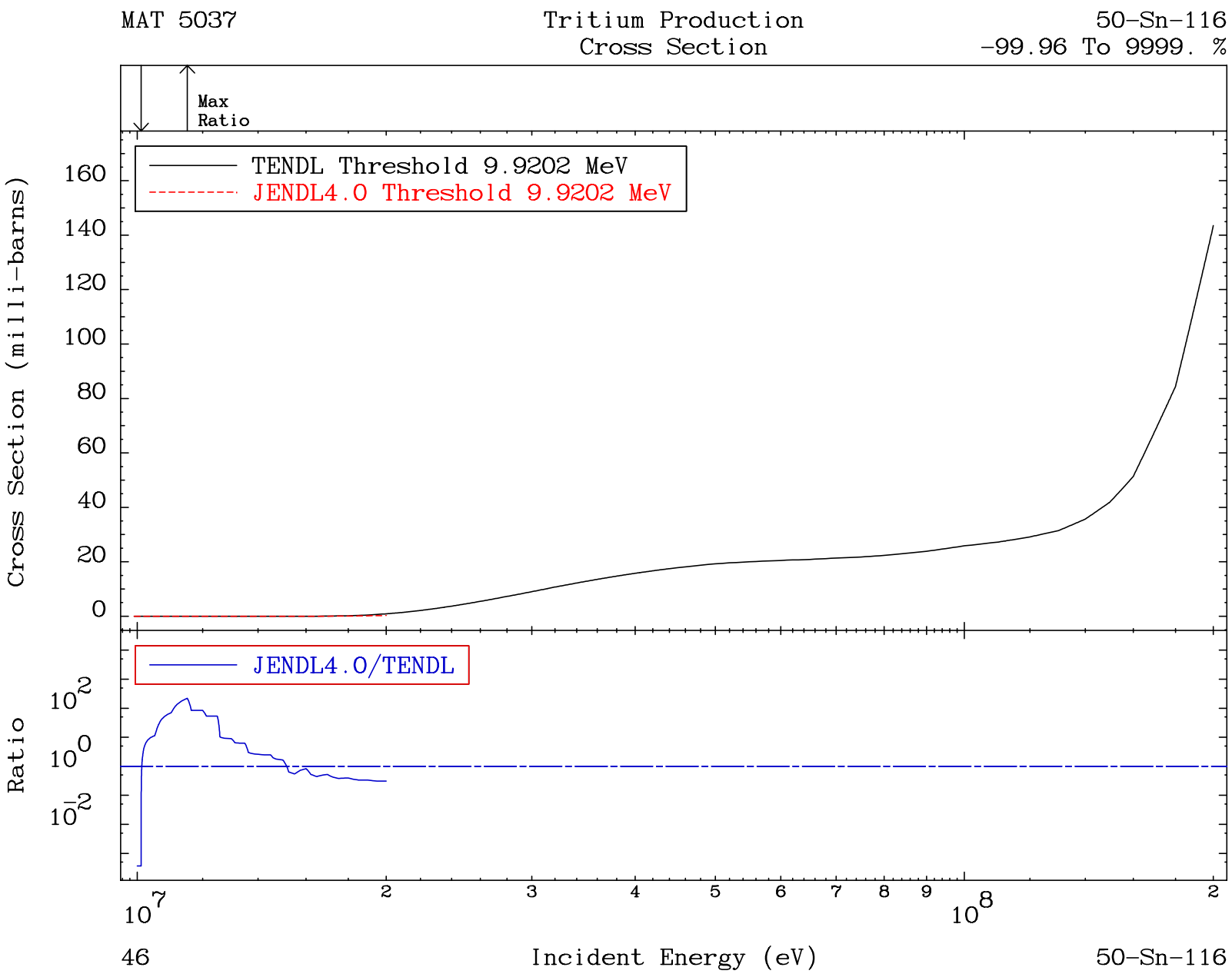

MAT 5037
(n,t)
Cross Section
50-Sn-116
-99.96 To 9999. %
Max
Ratio
TENDL Threshold 9.9202 MeV
JENDL4.0 Threshold 9.9202 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JENDL4.0/TENDL
Ratio
10^2
10^0
10^-2
10^7
2
3
4
5
6
7
8
9
10^8
2
41
Incident Energy (eV)
50-Sn-116

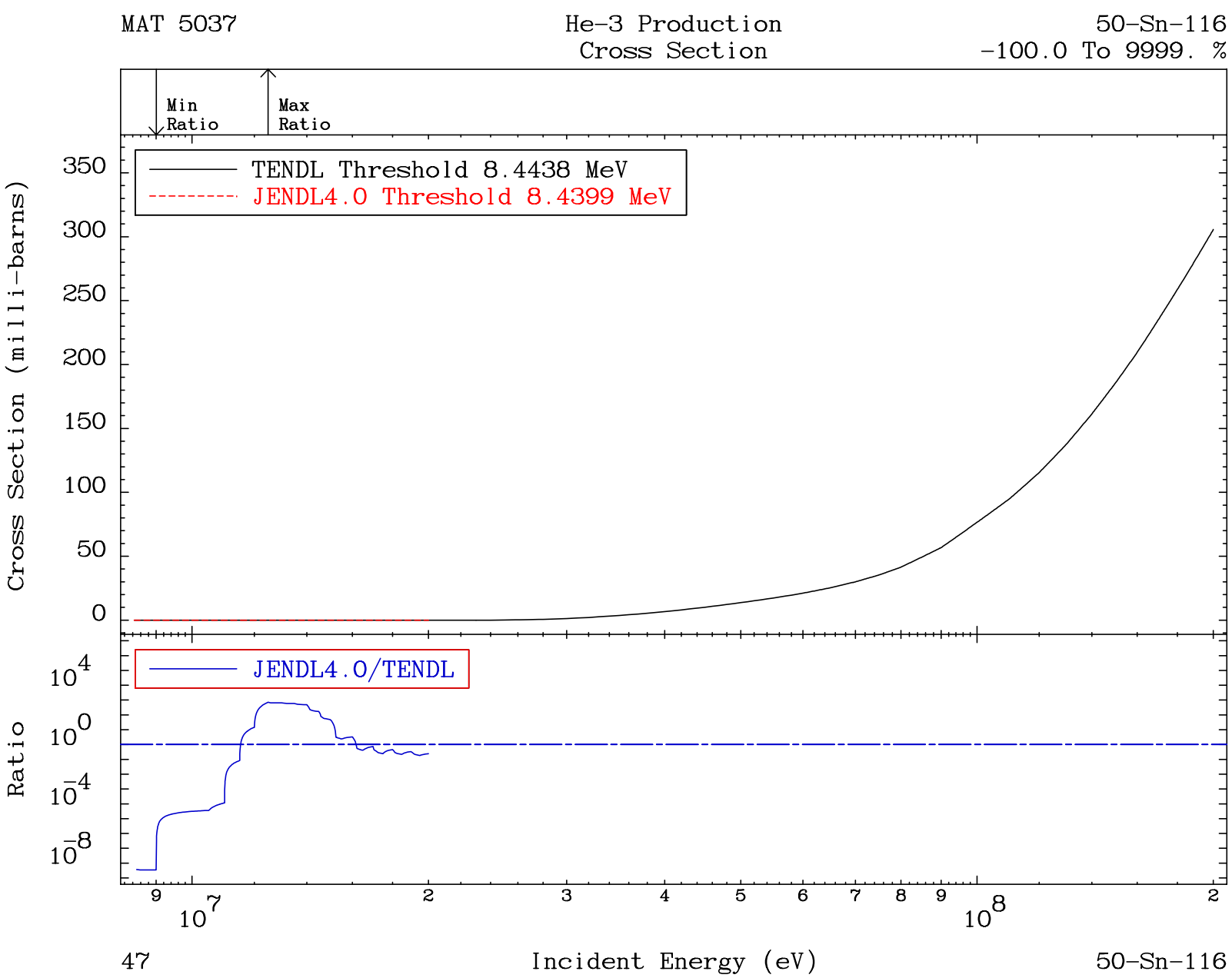

MAT 5037
(n,He-3)
Cross Section
50-Sn-116
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.4438 MeV
JENDL4.0 Threshold 8.4399 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^4
10^0
10^-4
10^-8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
42
Incident Energy (eV)
50-Sn-116

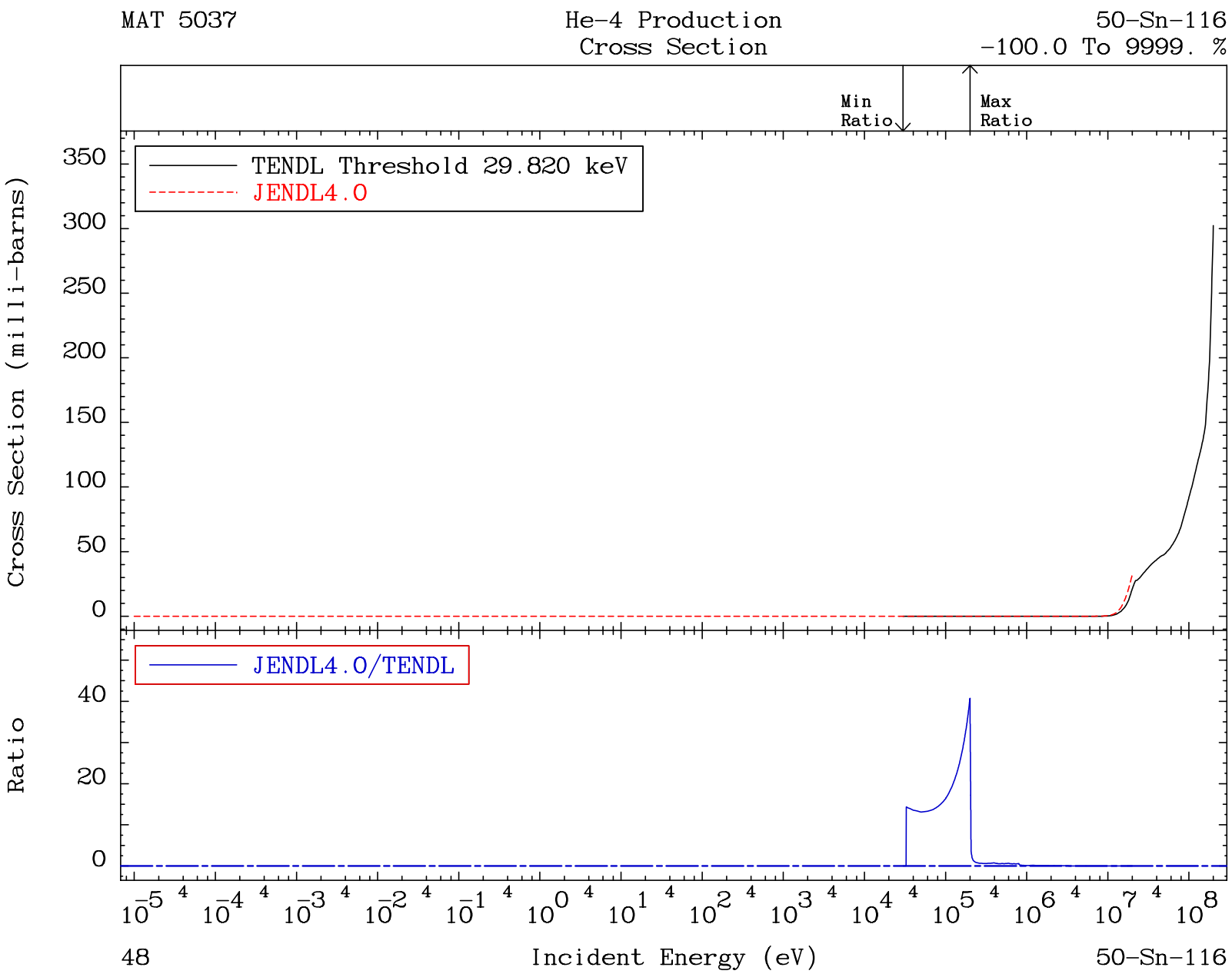

MAT 5037
(n,α)
Cross Section
50-Sn-116
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 29.820 keV
JENDL4.0
Cross Section (milli-barns)
20
15
10
5
0
JENDL4.0/TENDL
Ratio
40
20
0
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
43
Incident Energy (eV)
50-Sn-116

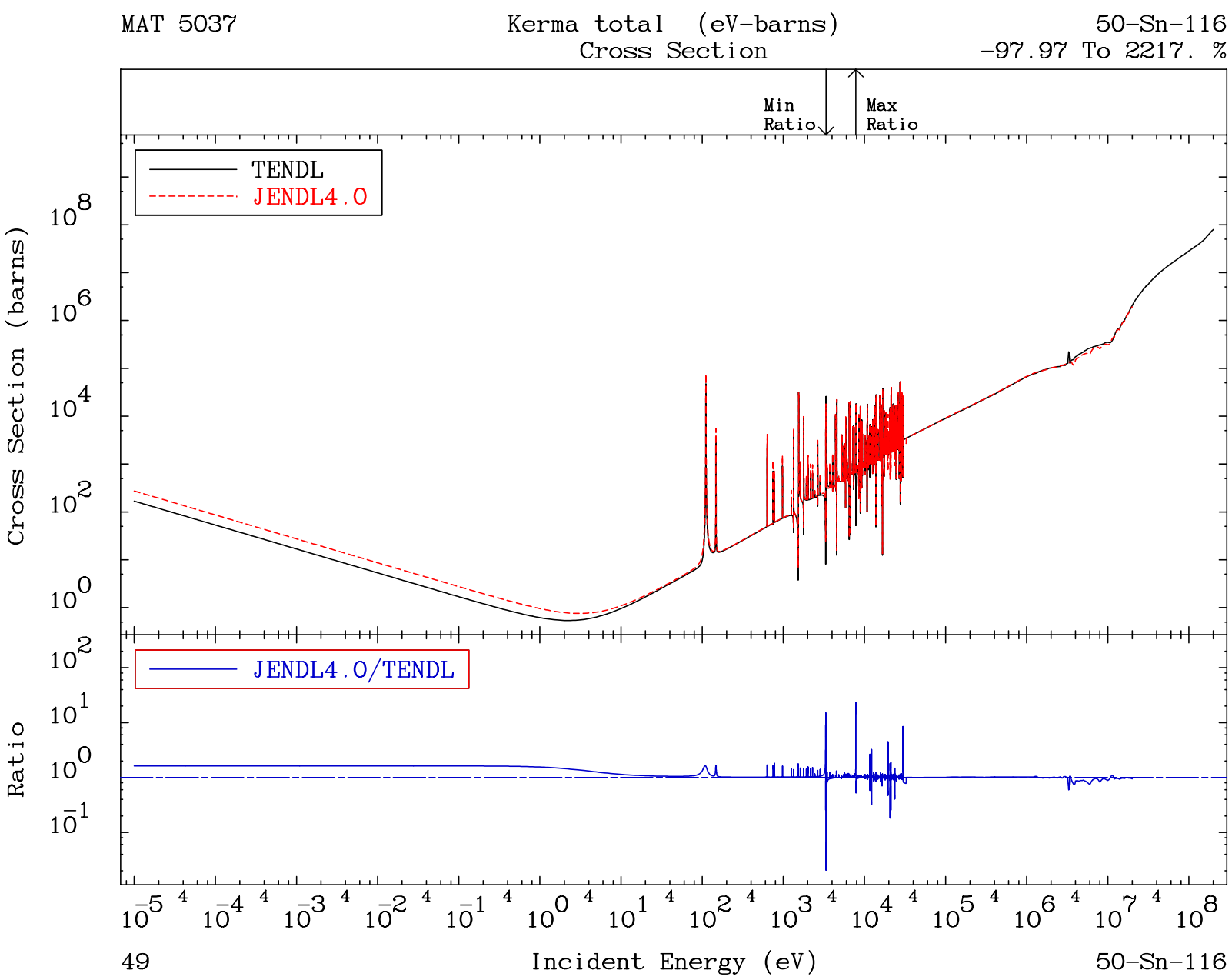

MAT 5037
Hydrogen Production
Cross Section
50-Sn-116
-99.99 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.5156 MeV
JENDL4.0 Threshold 2.5175 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^6
10^3
10^0
10^-3
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
50-Sn-116

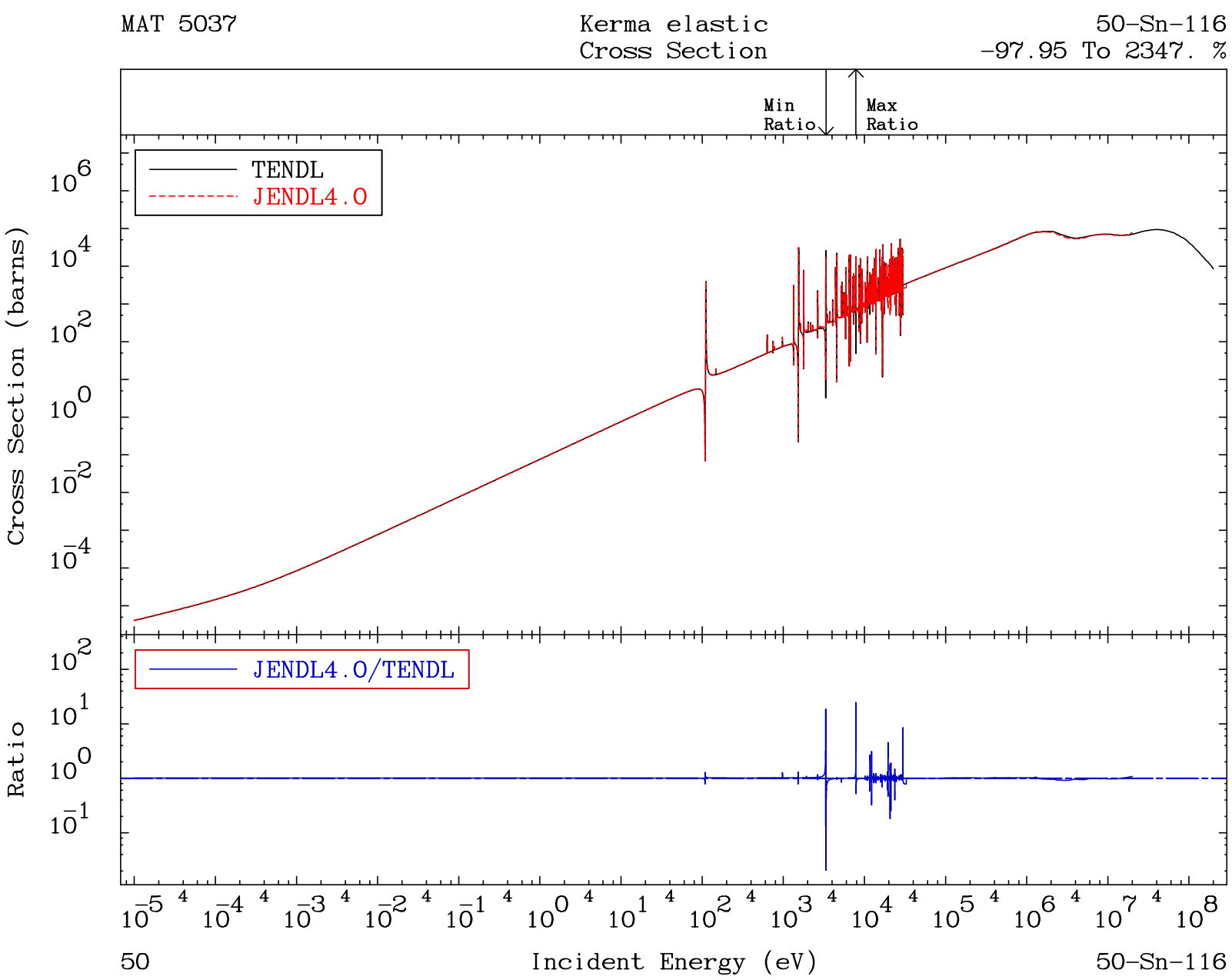

MAT 5037
Deuterium Production
Cross Section
50-Sn-116
-33.45 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.1154 MeV
JENDL4.0 Threshold 7.1173 MeV
Cross Section (milli-barns)
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
50-Sn-116

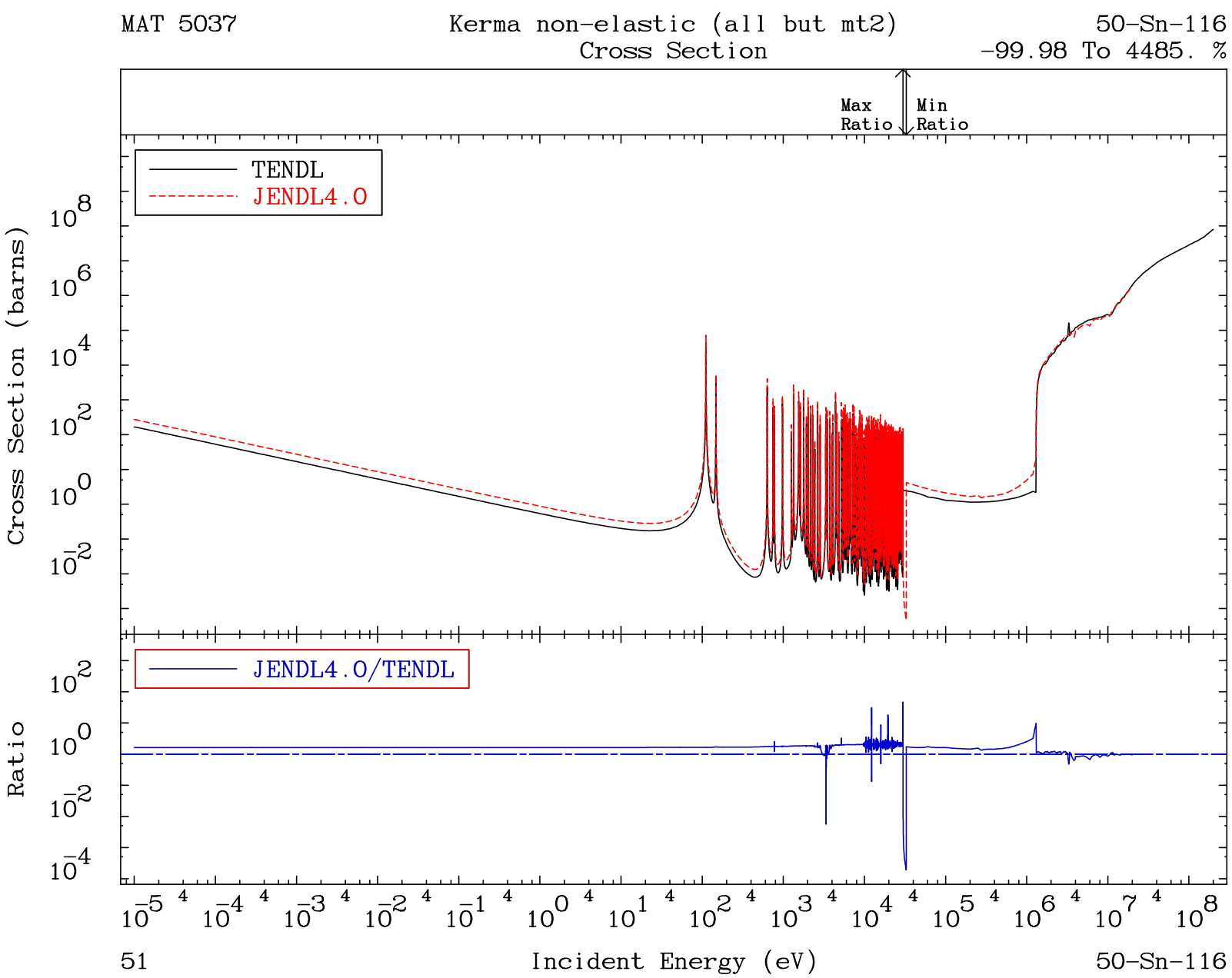

MAT 5037
Tritium Production
Cross Section
50-Sn-116
-99.96 To 9999. %
Max
Ratio
TENDL Threshold 9.9202 MeV
JENDL4.0 Threshold 9.9202 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^2
10^0
10^-2
10^7
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
50-Sn-116

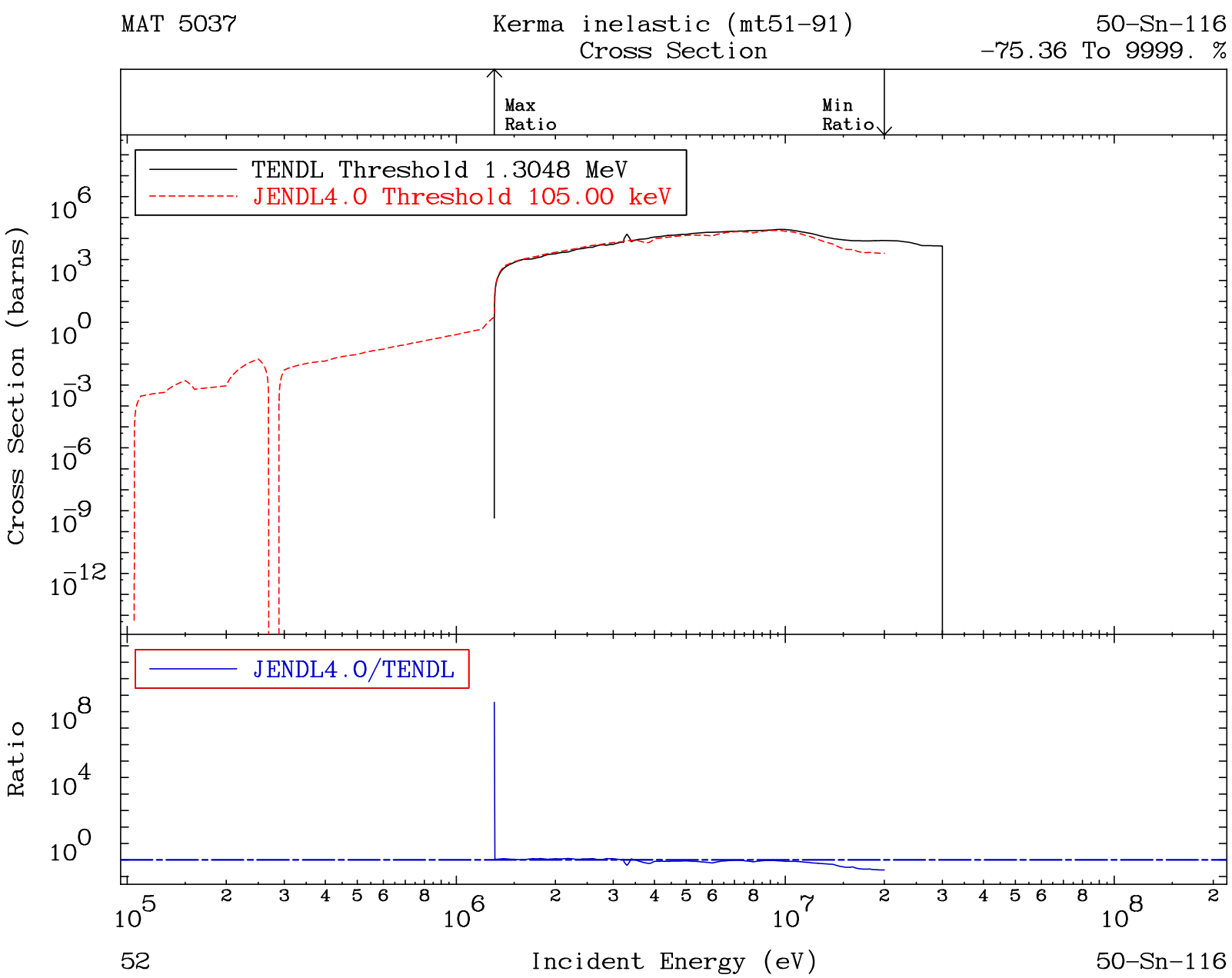

MAT 5037
He-3 Production
Cross Section
50-Sn-116
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.4438 MeV
JENDL4.0 Threshold 8.4399 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^4
10^0
10^-4
10^-8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
50-Sn-116

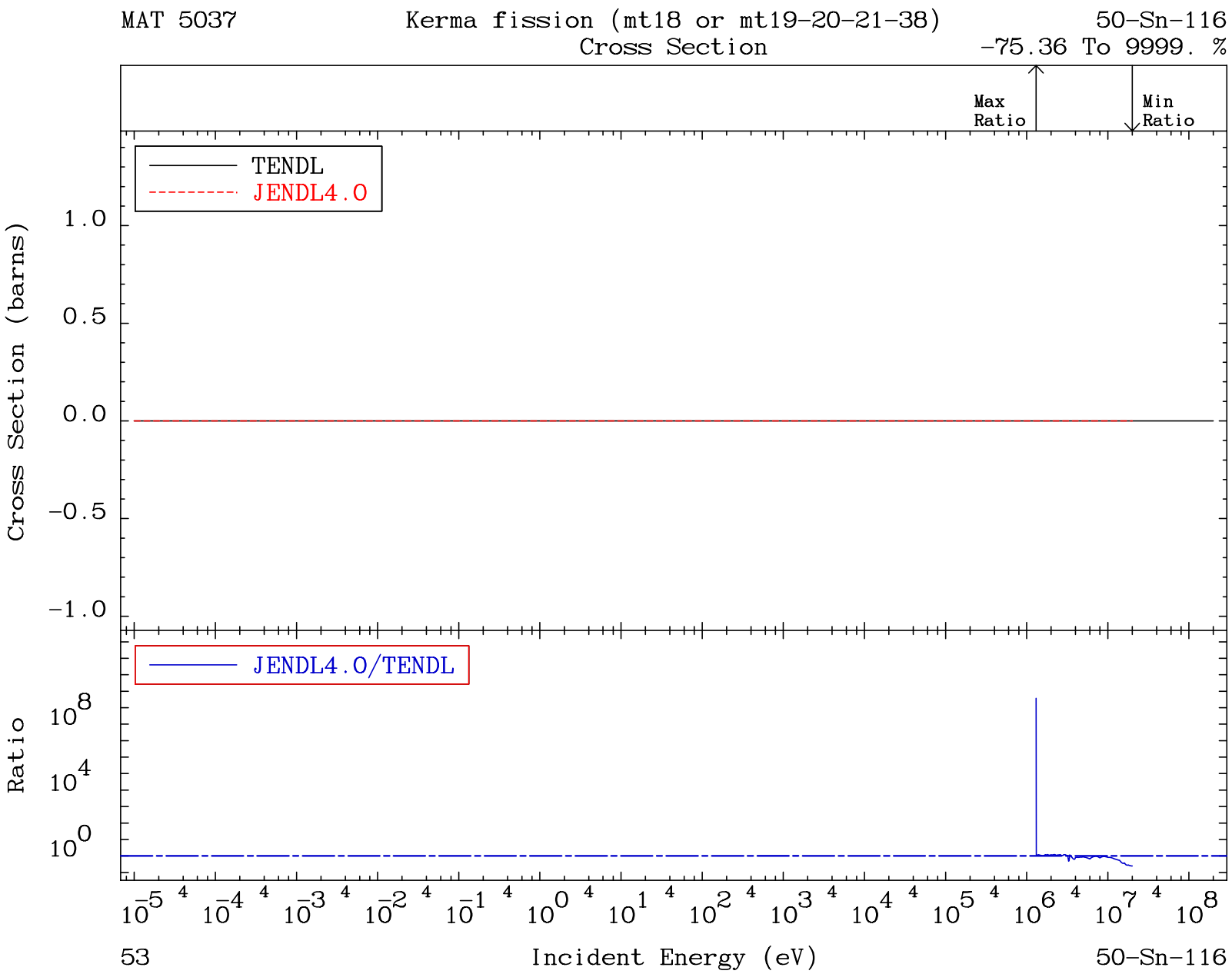

MAT 5037
He-4 Production
Cross Section
50-Sn-116
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 29.820 keV
JENDL4.0
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
40
20
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
48
Incident Energy (eV)
50-Sn-116

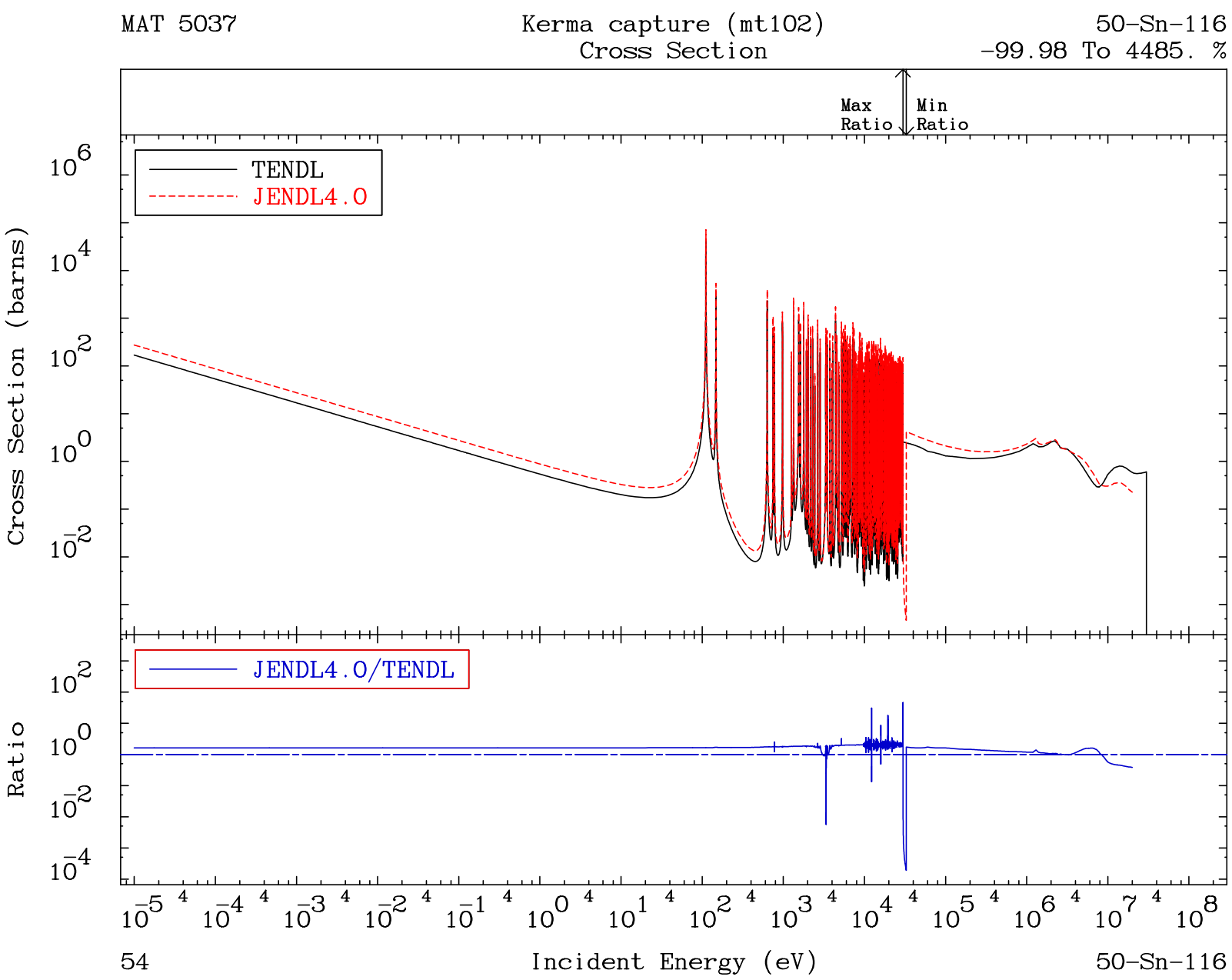

MAT 5037
Kerma total (eV-barns)
Cross Section
50-Sn-116
-97.97 To 2217. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
49
50-Sn-116

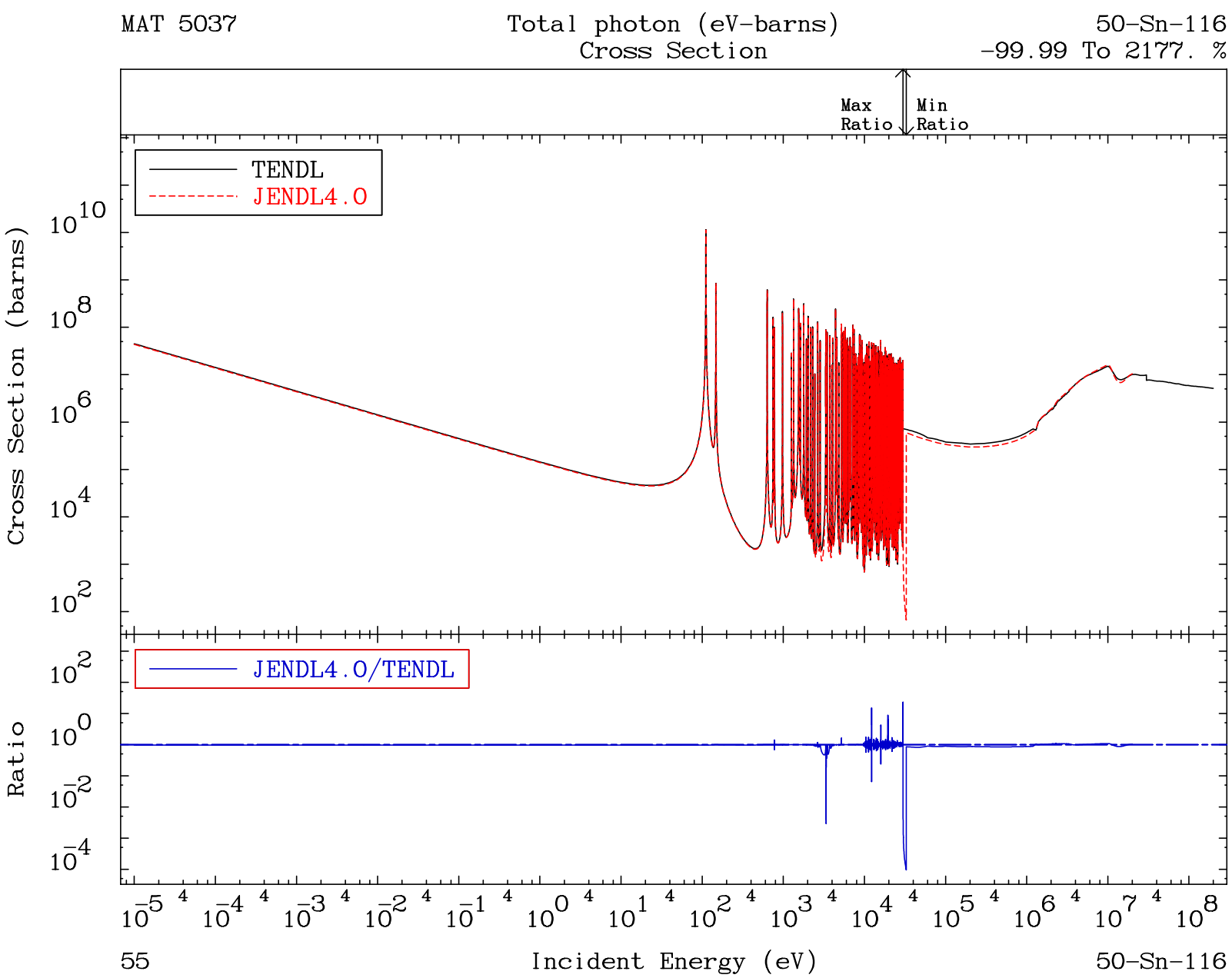

MAT 5037
Kerma elastic
Cross Section
50-Sn-116
-97.95 To 2347. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
50
50-Sn-116

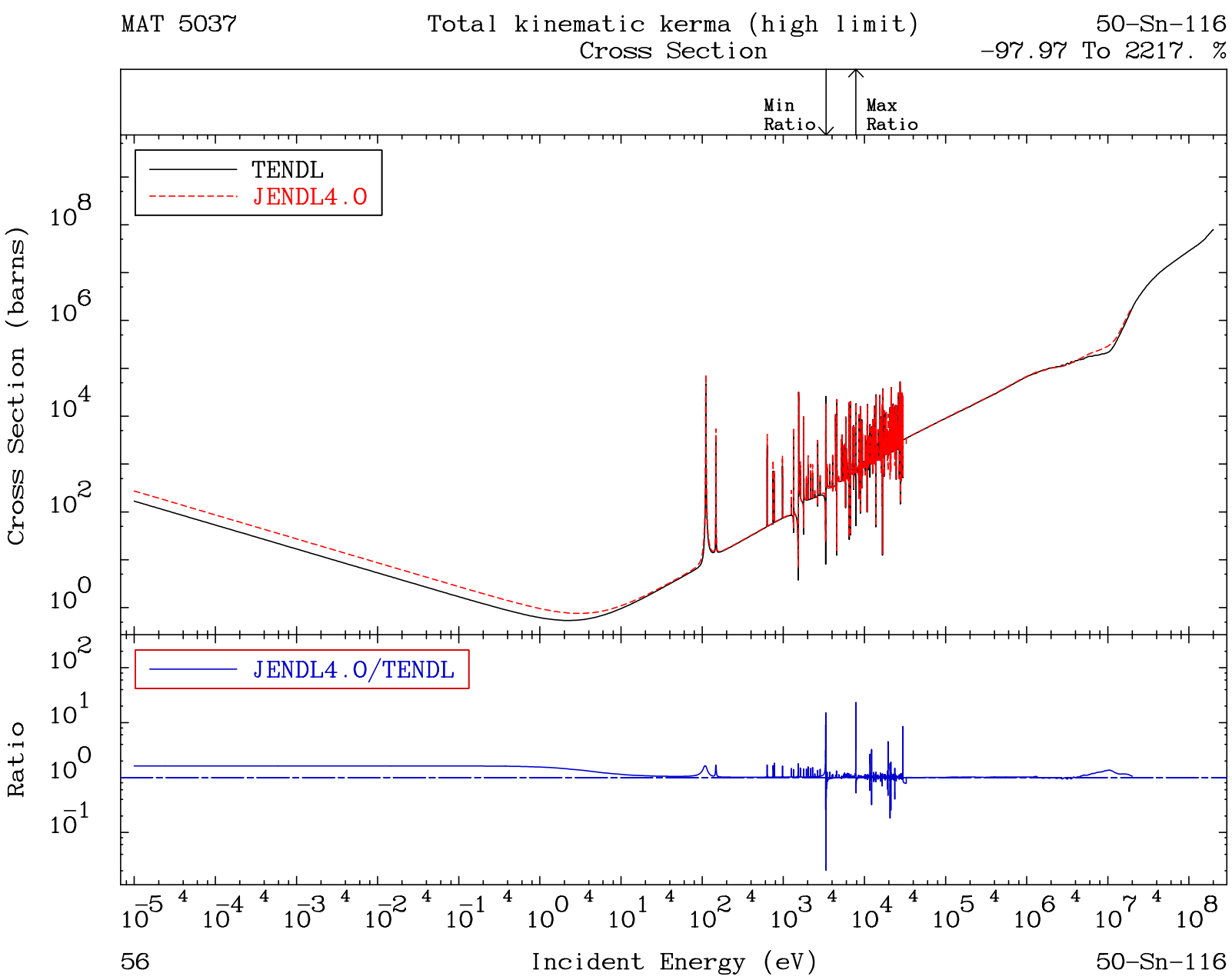

MAT 5037
Kerma non-elastic (all but mt2)
Cross Section
50-Sn-116
-99.98 To 4485. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
51
50-Sn-116

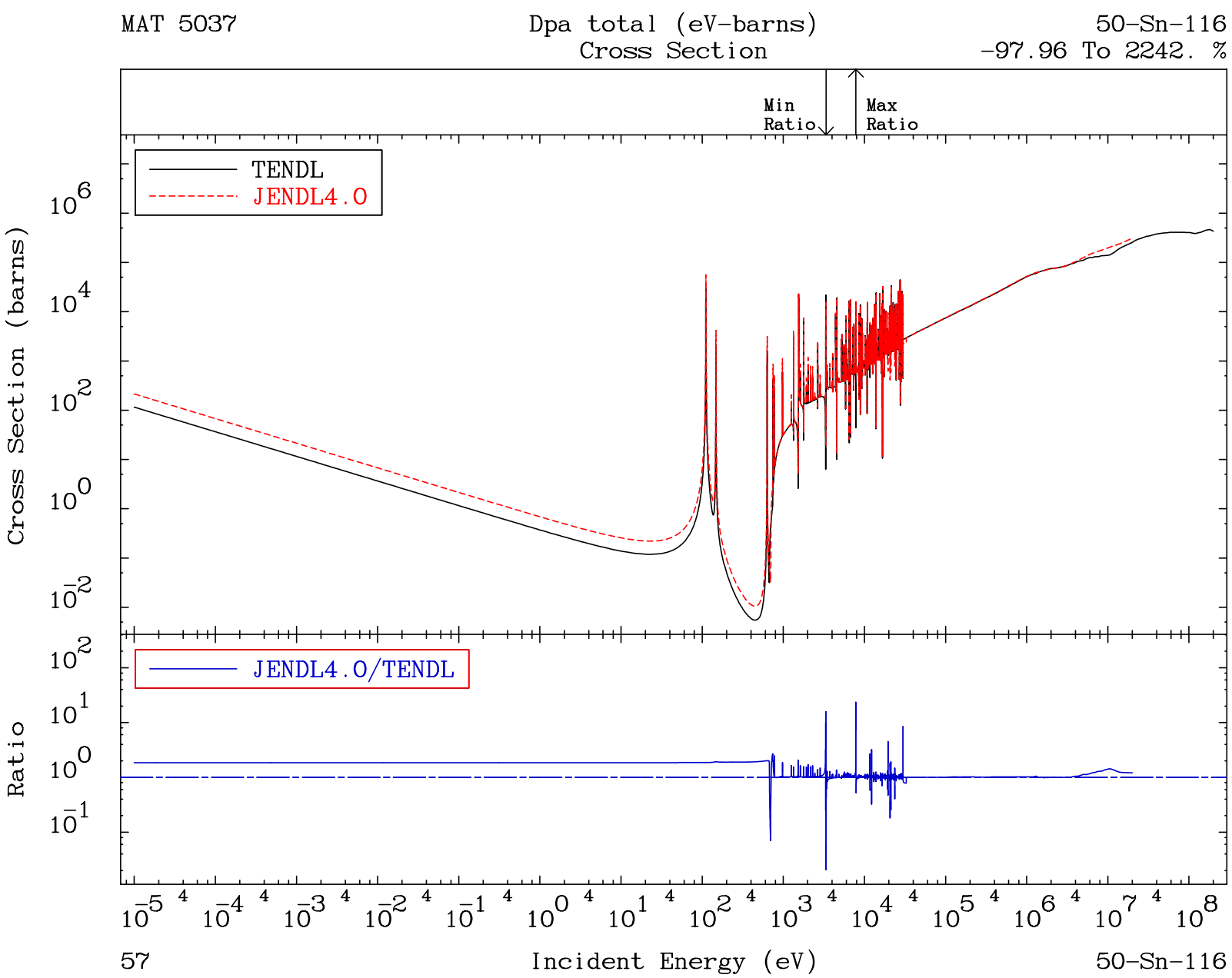

MAT 5037
Kerma inelastic (mt51-91)
Cross Section
50-Sn-116
-75.36 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.3048 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
52
50-Sn-116

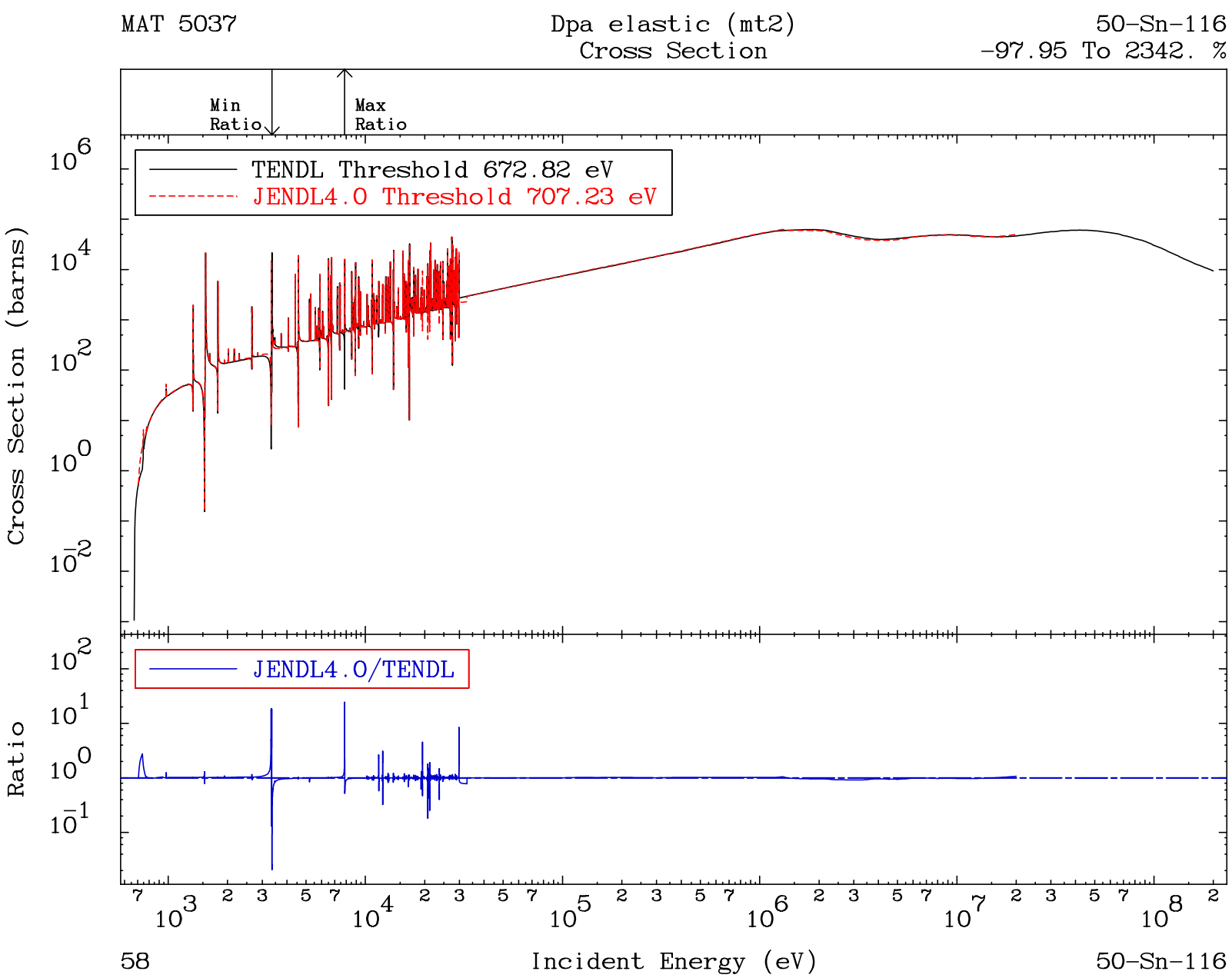

MAT 5037
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
50-Sn-116
-75.36 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^8
10^4
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
53
Incident Energy (eV)
50-Sn-116

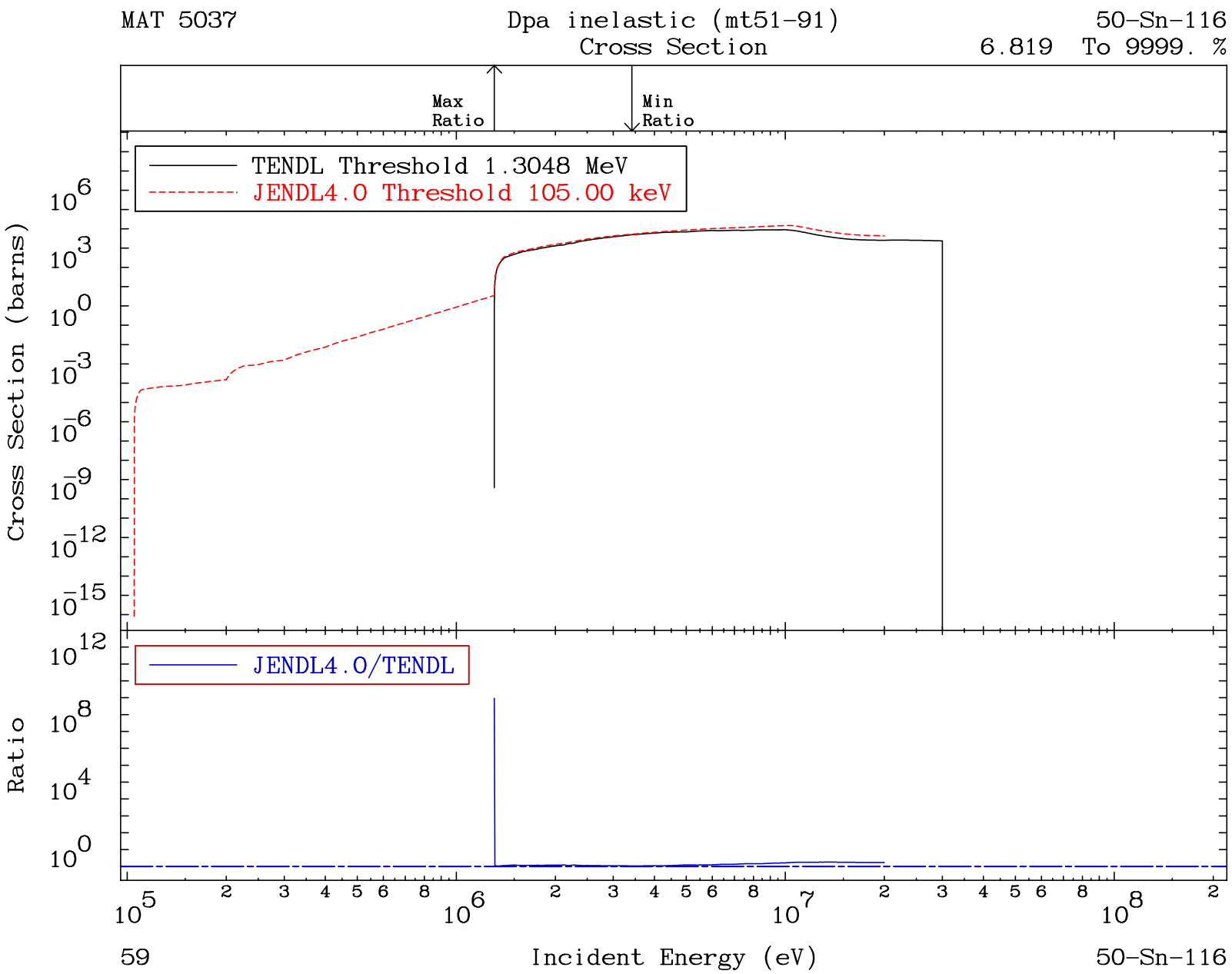

MAT 5037
Kerma capture (mt102)
Cross Section
50-Sn-116
-99.98 To 4485. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
54
50-Sn-116

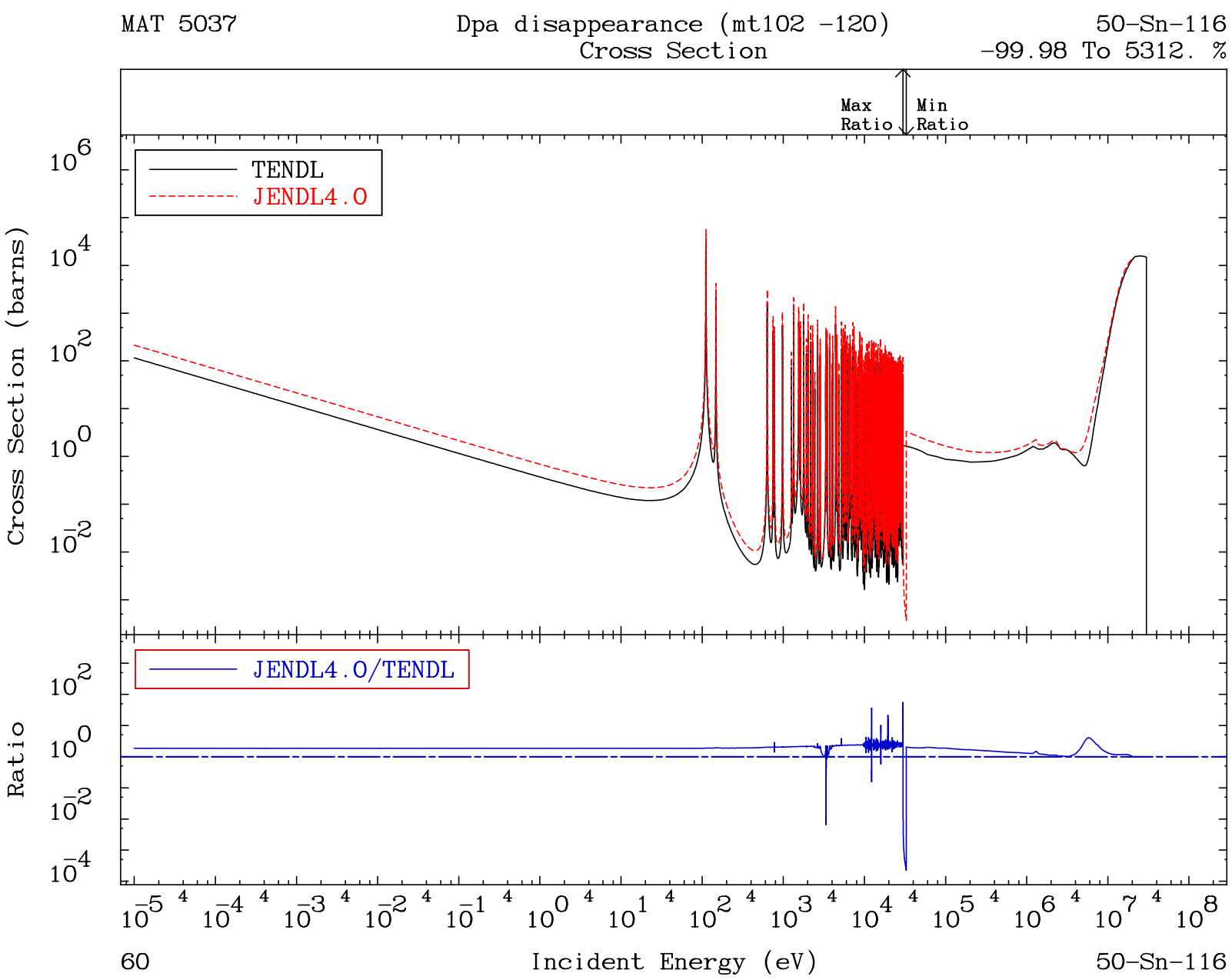

MAT 5037
Total photon (eV-barns)
Cross Section
50-Sn-116
-99.99 To 2177. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
55
50-Sn-116


MAT 5037
Total kinematic kerma (high limit)
Cross Section
50-Sn-116
-97.97 To 2217. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
Ratio
JENDL4.0/TENDL
Incident Energy (eV)
56
50-Sn-116


MAT 5037
Dpa total (eV-barns)
Cross Section
50-Sn-116
-97.96 To 2242. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
57
50-Sn-116


MAT 5037
Dpa elastic (mt2)
Cross Section
50-Sn-116
-97.95 To 2342. %
Min Ratio
Max Ratio
TENDL Threshold 672.82 eV
JENDL4.0 Threshold 707.23 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
58
50-Sn-116


MAT 5037
Dpa inelastic (mt51-91)
Cross Section
50-Sn-116
6.819 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.3048 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
59
50-Sn-116


MAT 5037
Dpa disappearance (mt102 -120)
Cross Section
50-Sn-116
-99.98 To 5312. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
60
50-Sn-116