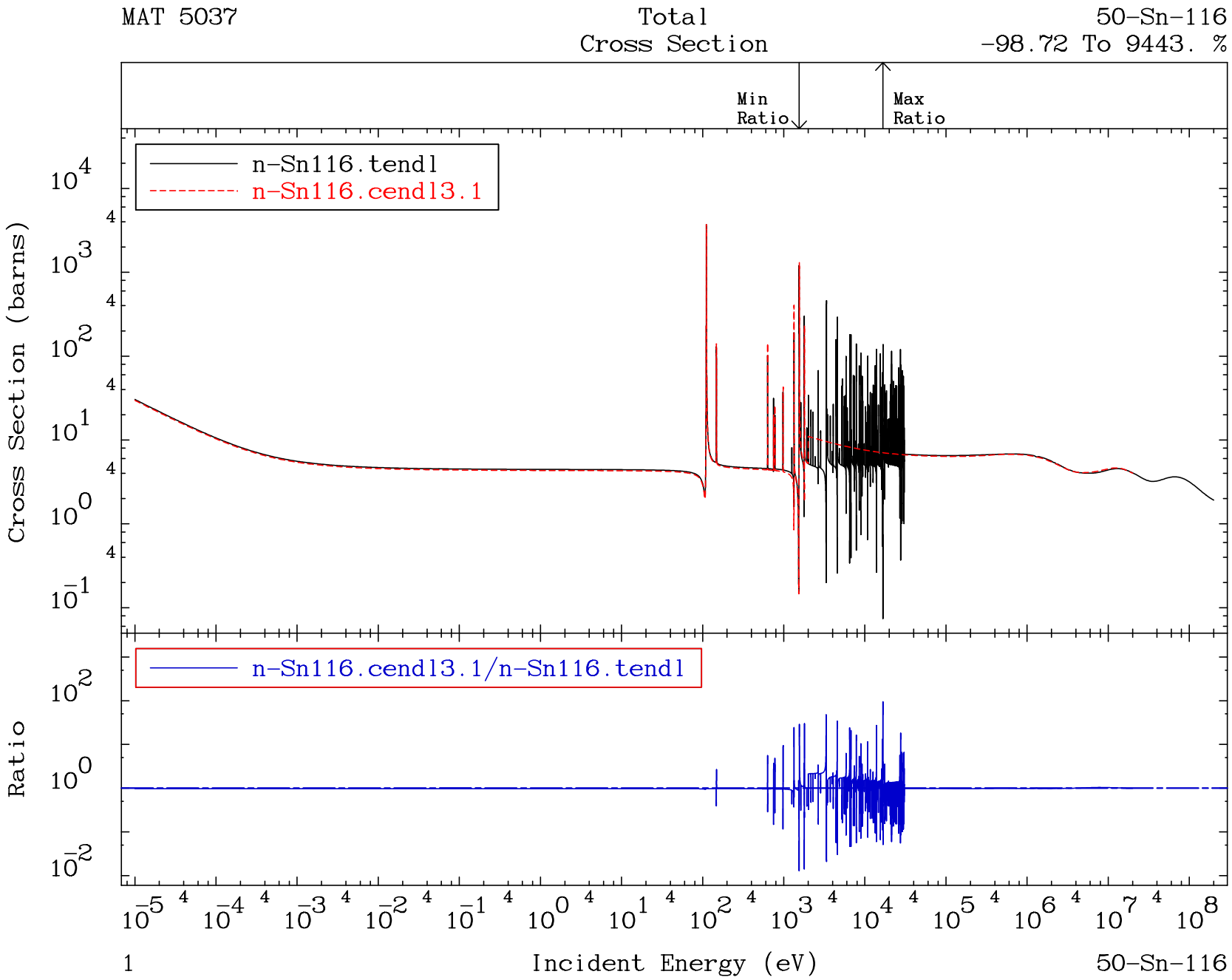
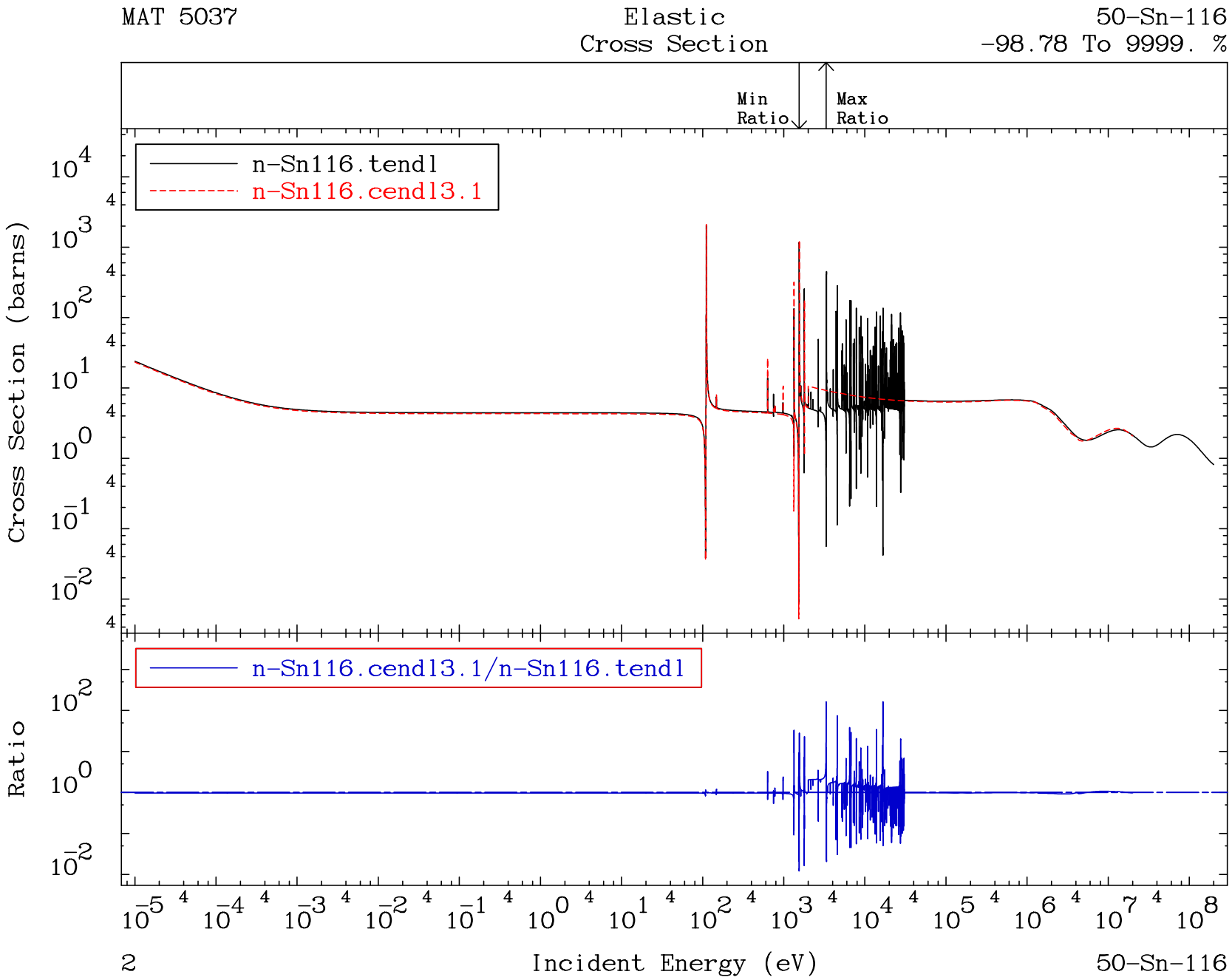
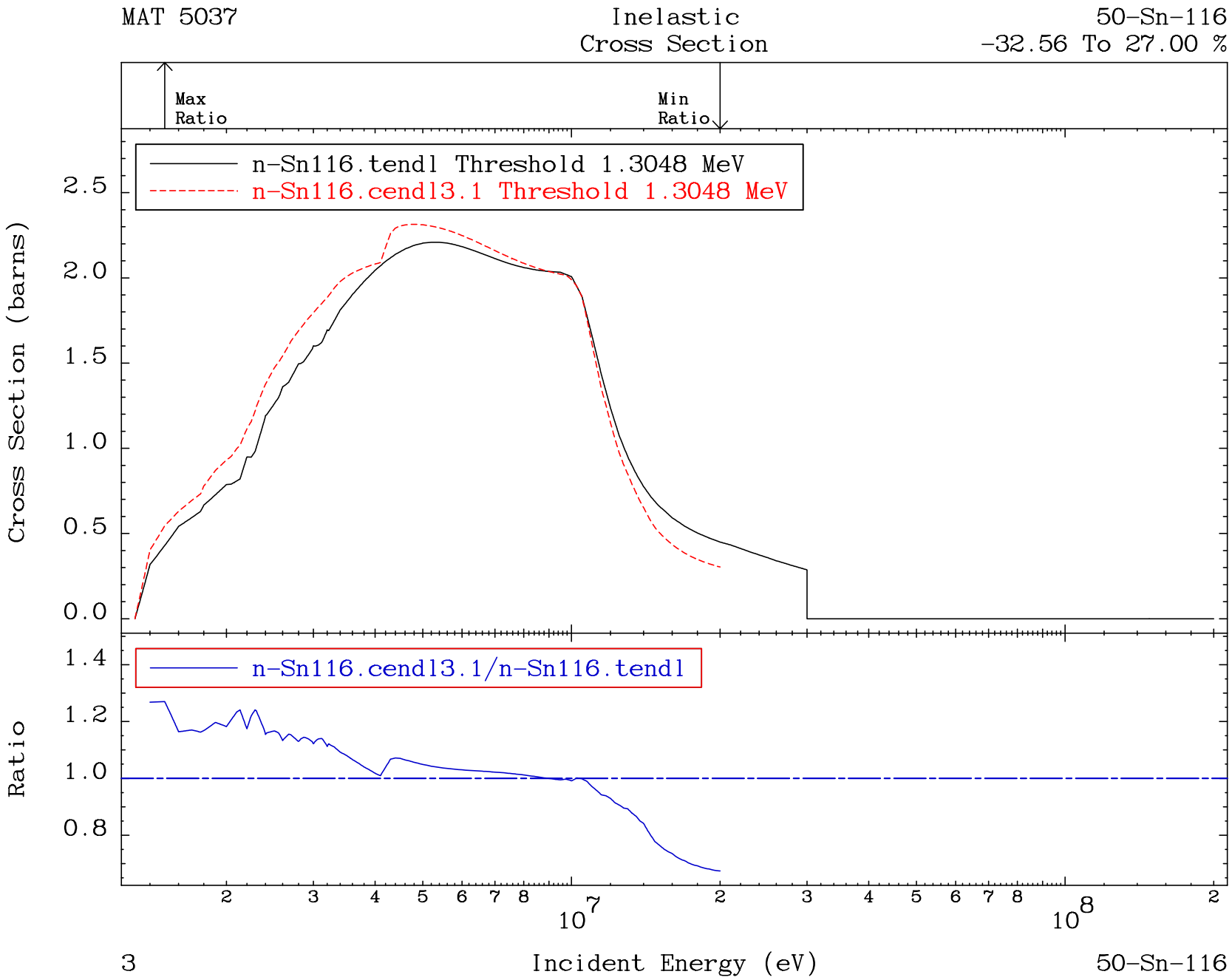
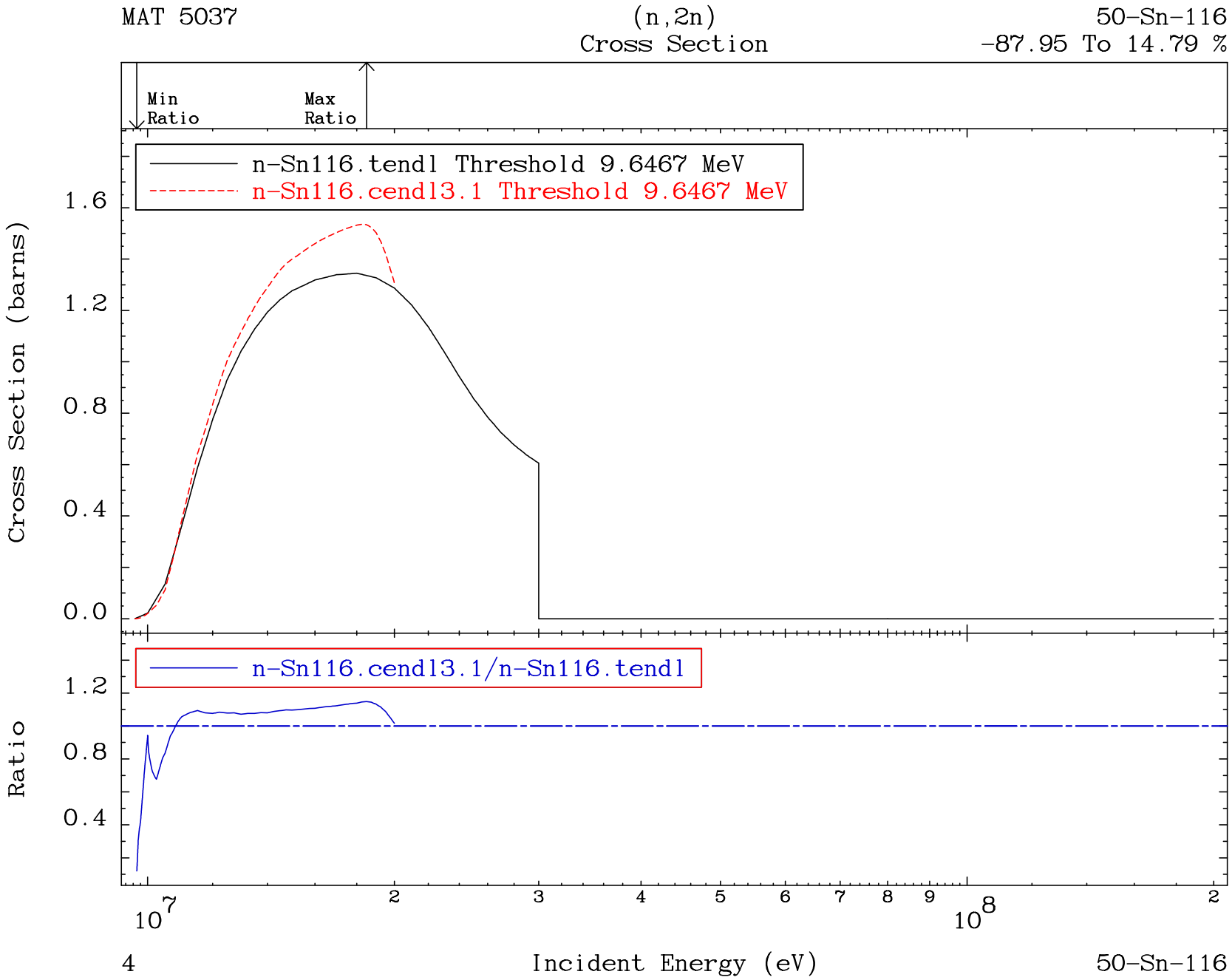
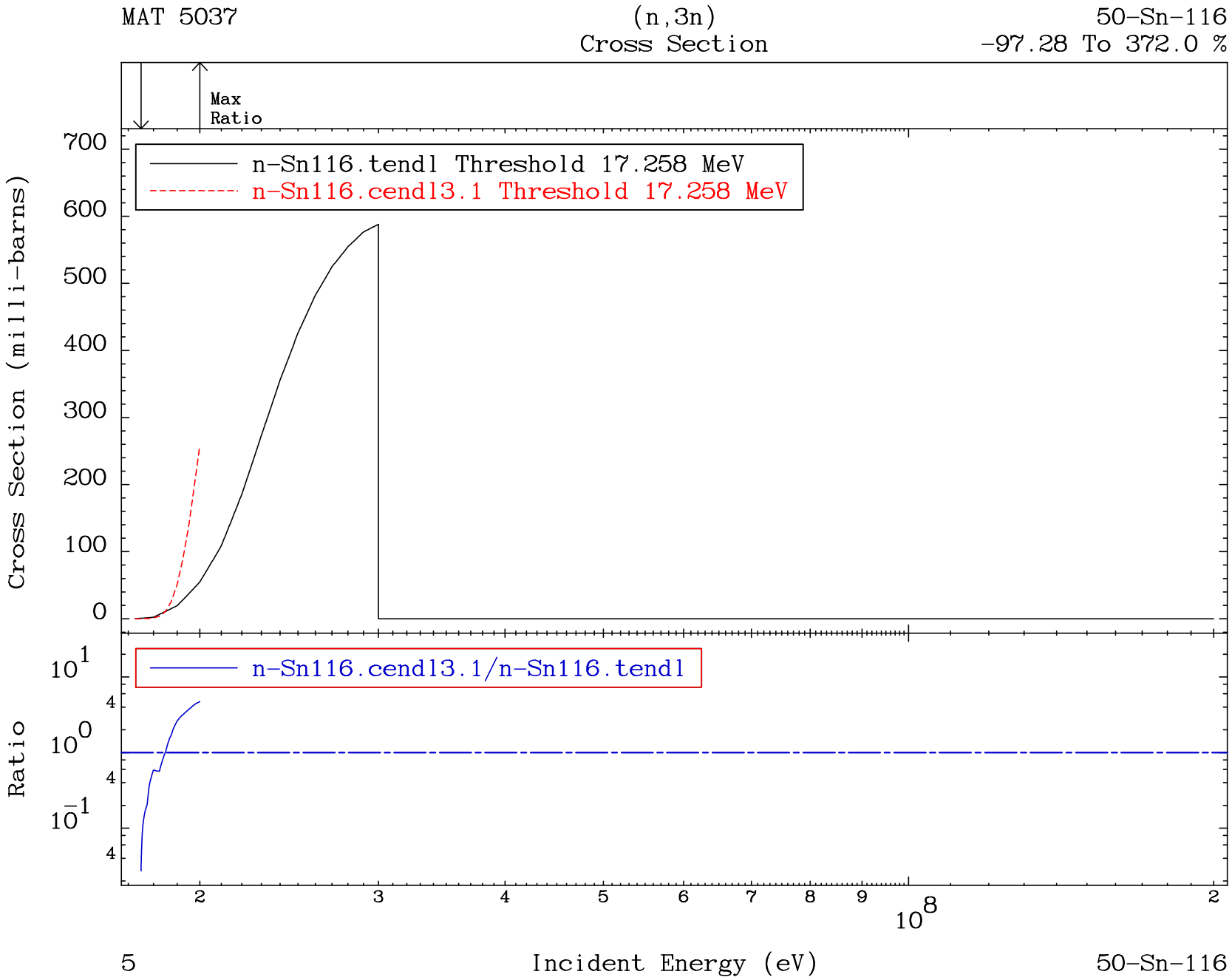
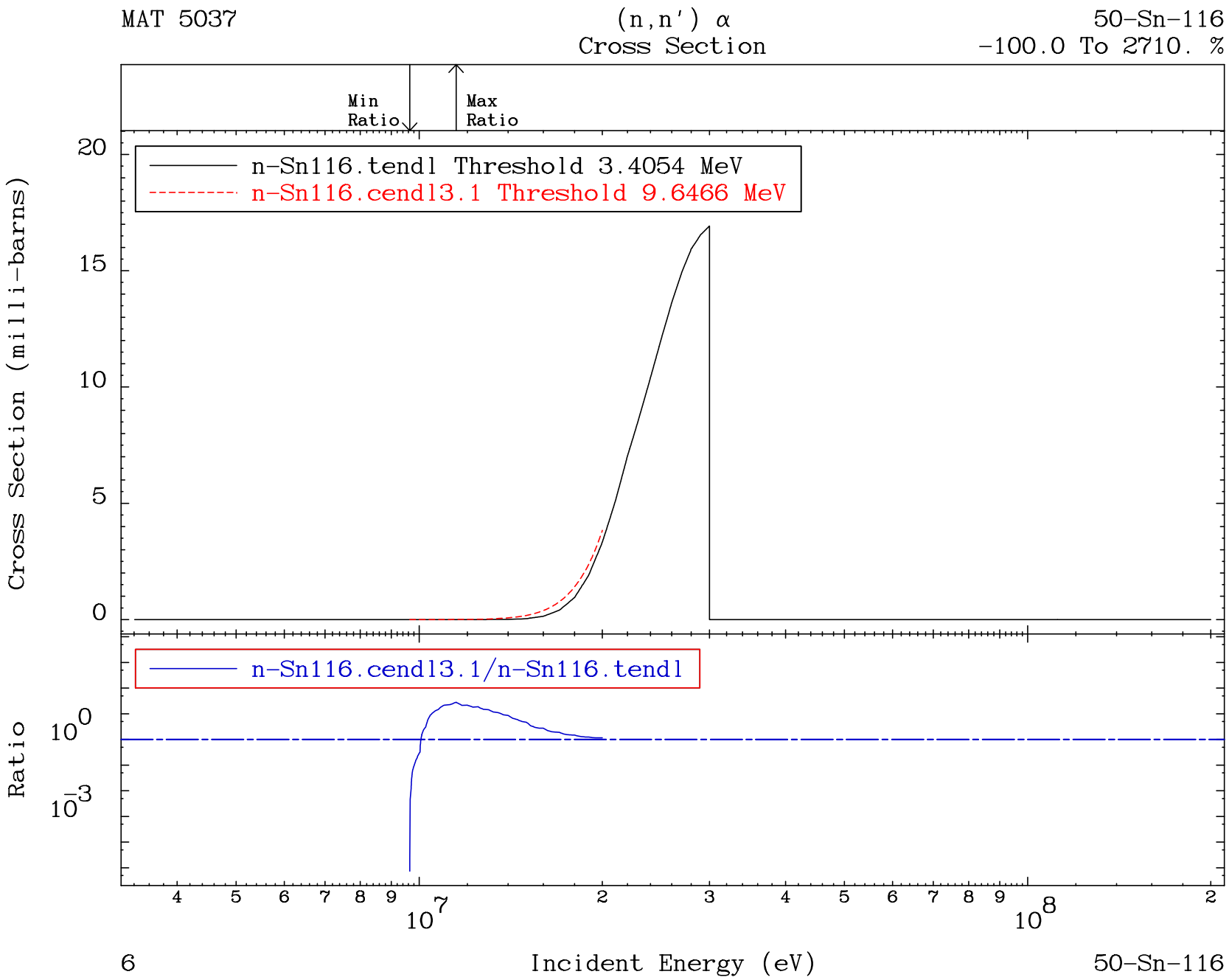

MAT 5037
Total
Cross Section
50-Sn-116
-98.72 To 9443. %
Min Ratio
Max Ratio
n-Sn116.tendl
n-Sn116.cendl3.1
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
1
50-Sn-116

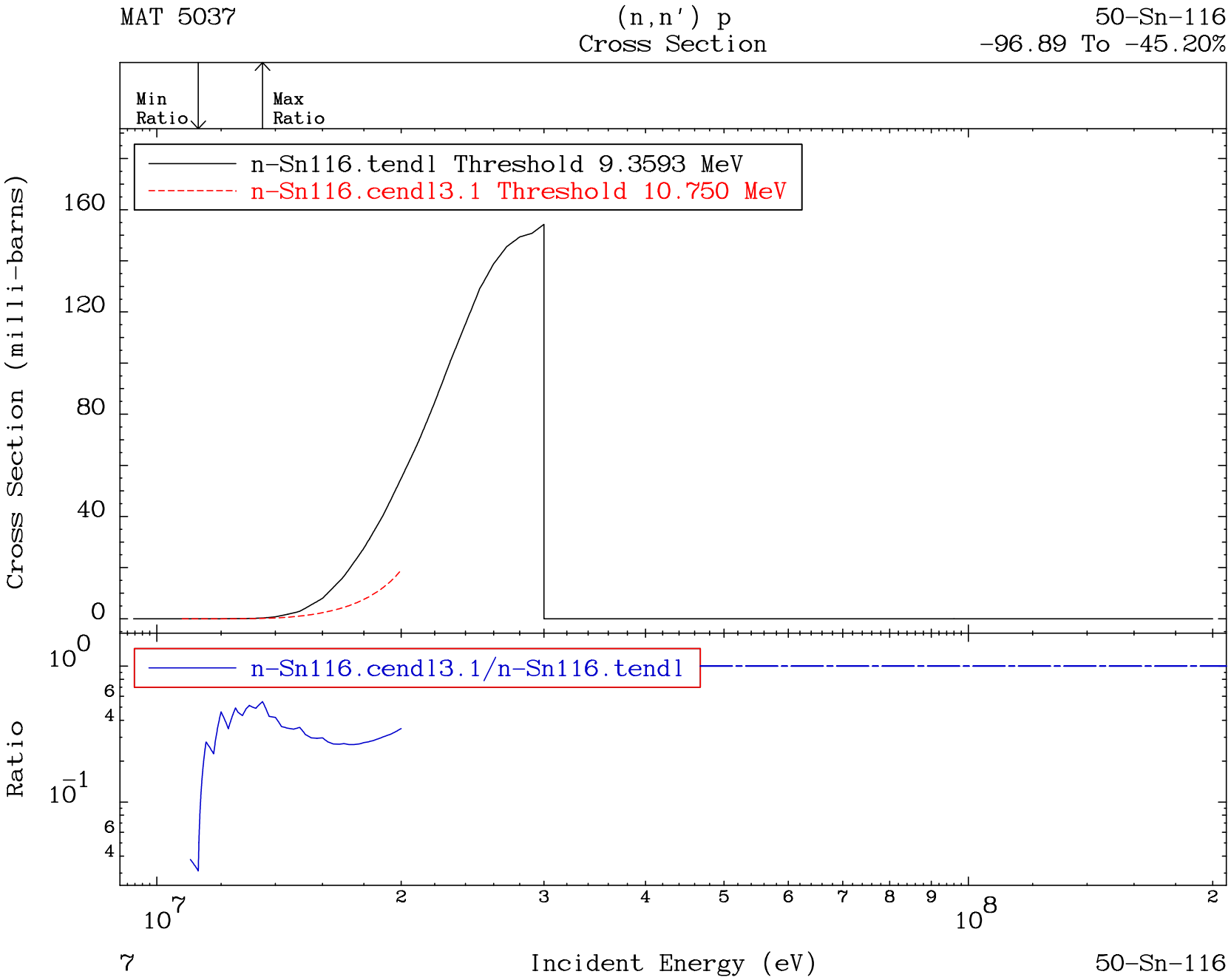

MAT 5037
Elastic
Cross Section
50-Sn-116
-98.78 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl
n-Sn116.cendl3.1
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
2
50-Sn-116

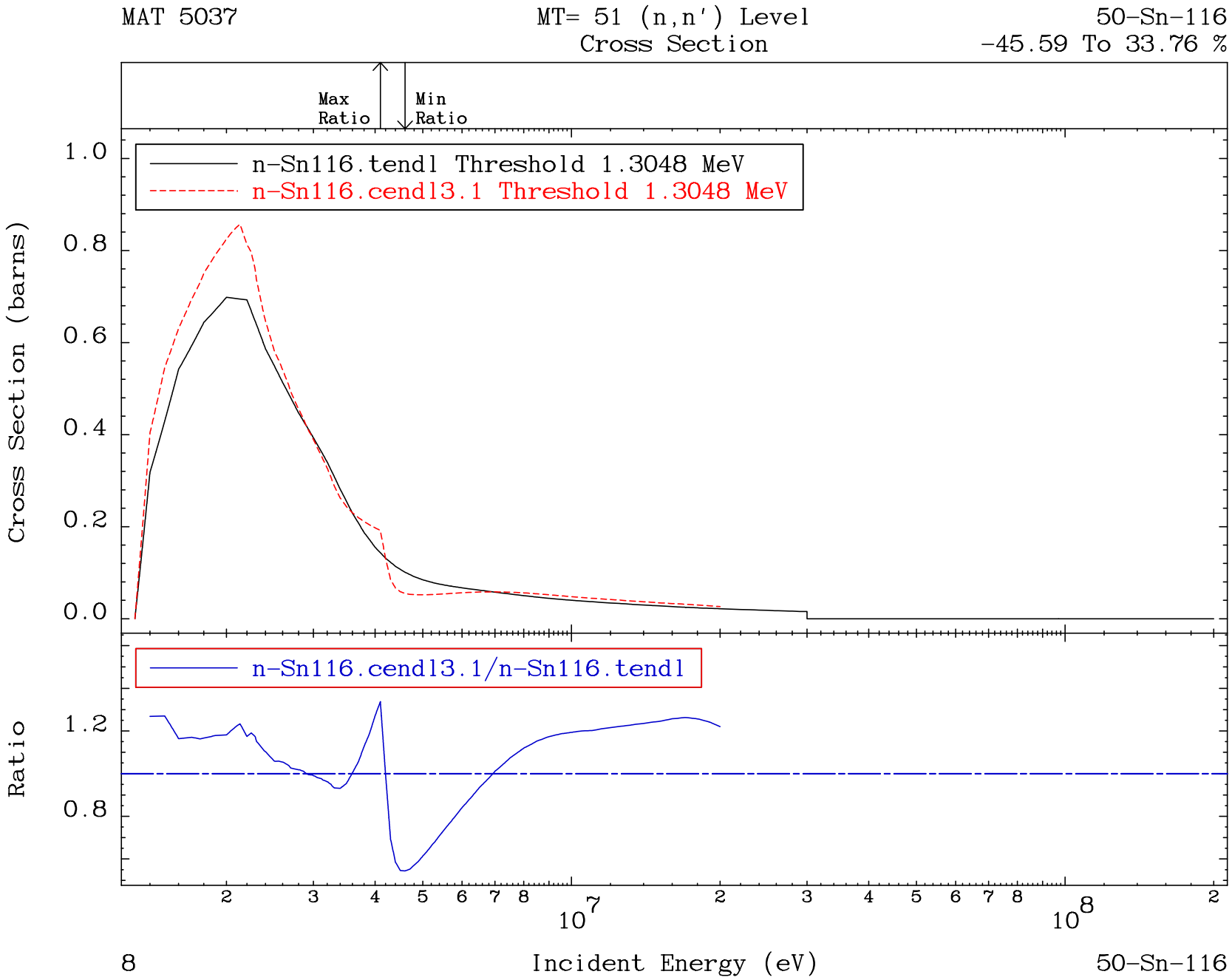

MAT 5037
Inelastic
Cross Section
50-Sn-116
-32.56 To 27.00 %
Max
Ratio
Min
Ratio
n-Sn116.tendl Threshold 1.3048 MeV
n-Sn116.cendl3.1 Threshold 1.3048 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
1.4
1.2
1.0
0.8
2
3
4
5
6
7
8
10^7
10^8
3
Incident Energy (eV)
50-Sn-116

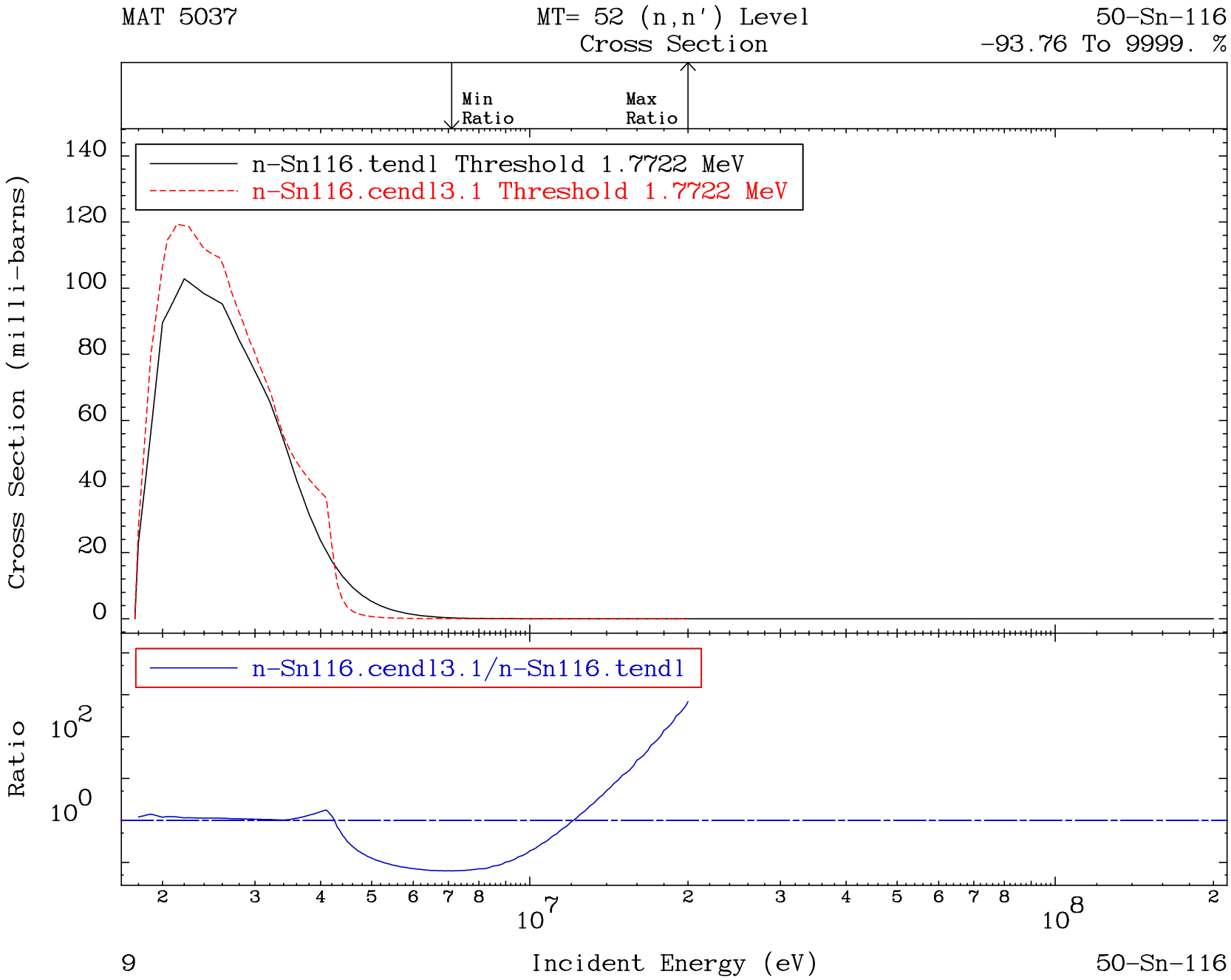

MAT 5037
(n,2n)
Cross Section
50-Sn-116
-87.95 To 14.79 %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 9.6467 MeV
n-Sn116.cendl3.1 Threshold 9.6467 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
1.2
0.8
0.4
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
50-Sn-116

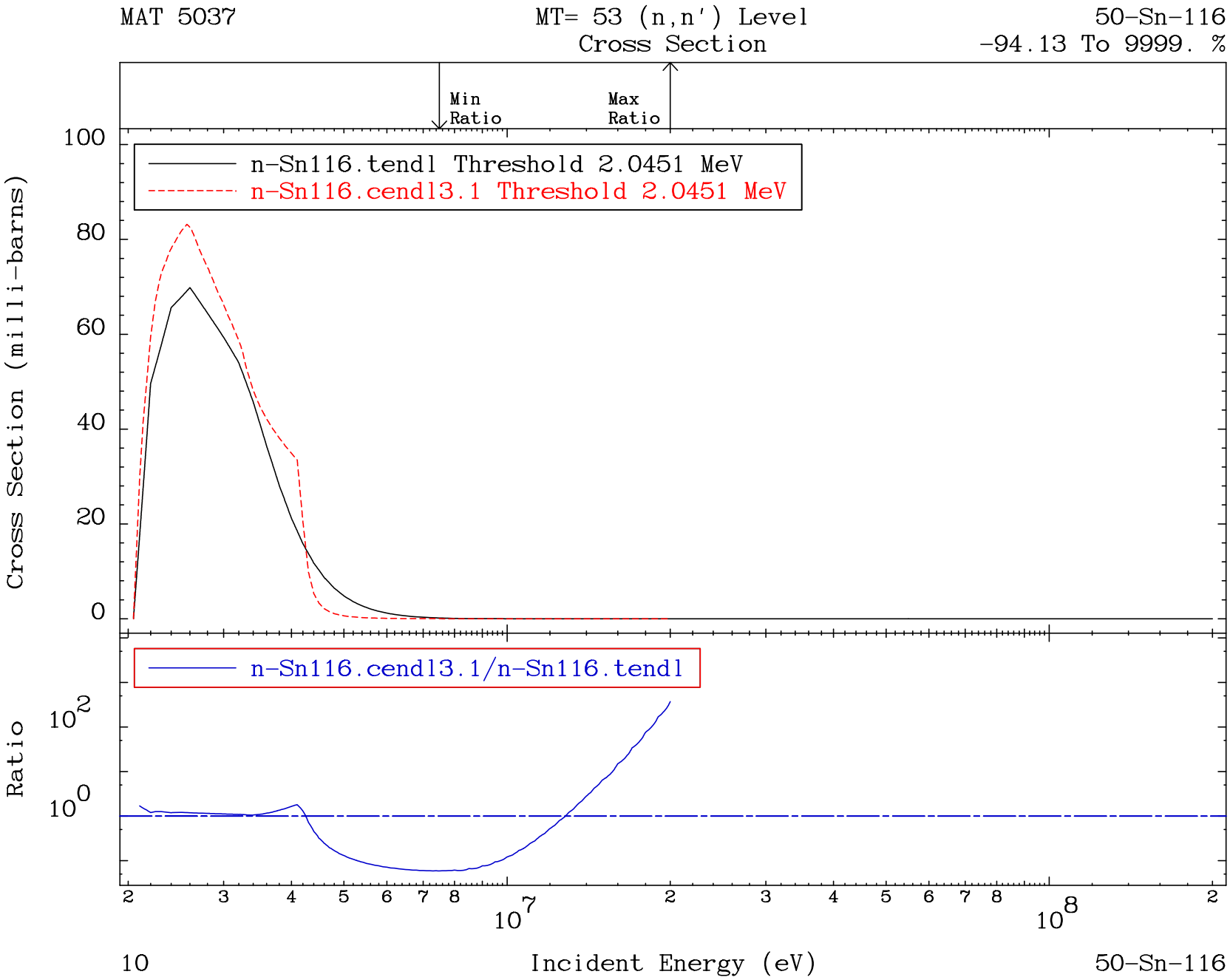

MAT 5037
(n,3n)
Cross Section
50-Sn-116
-97.28 To 372.0 %
Max
Ratio
n-Sn116.tendl Threshold 17.258 MeV
n-Sn116.cendl3.1 Threshold 17.258 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^1
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
50-Sn-116

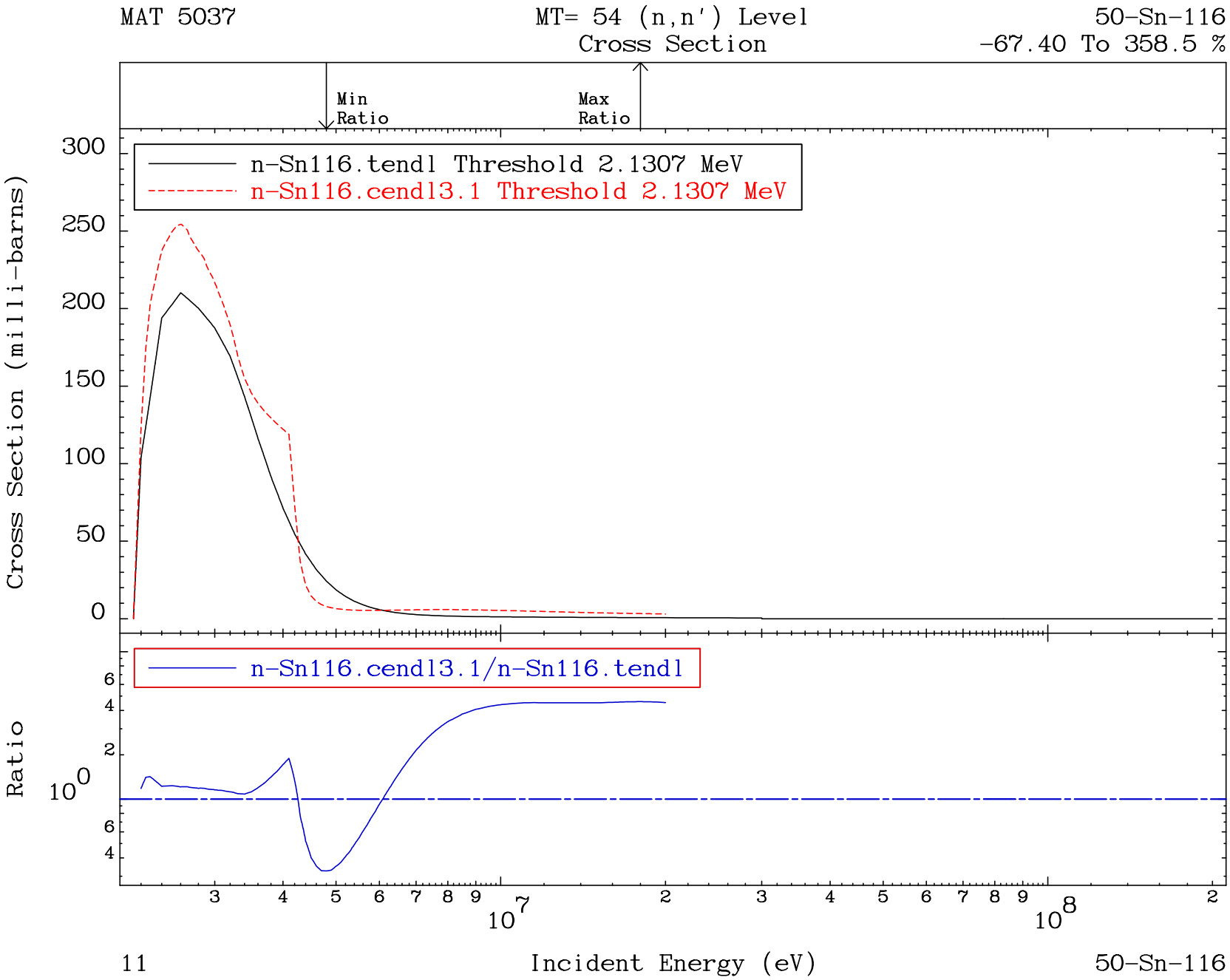

MAT 5037
(n,n') α
Cross Section
50-Sn-116
-100.0 To 2710. %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 3.4054 MeV
n-Sn116.cendl3.1 Threshold 9.6466 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-3
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
50-Sn-116

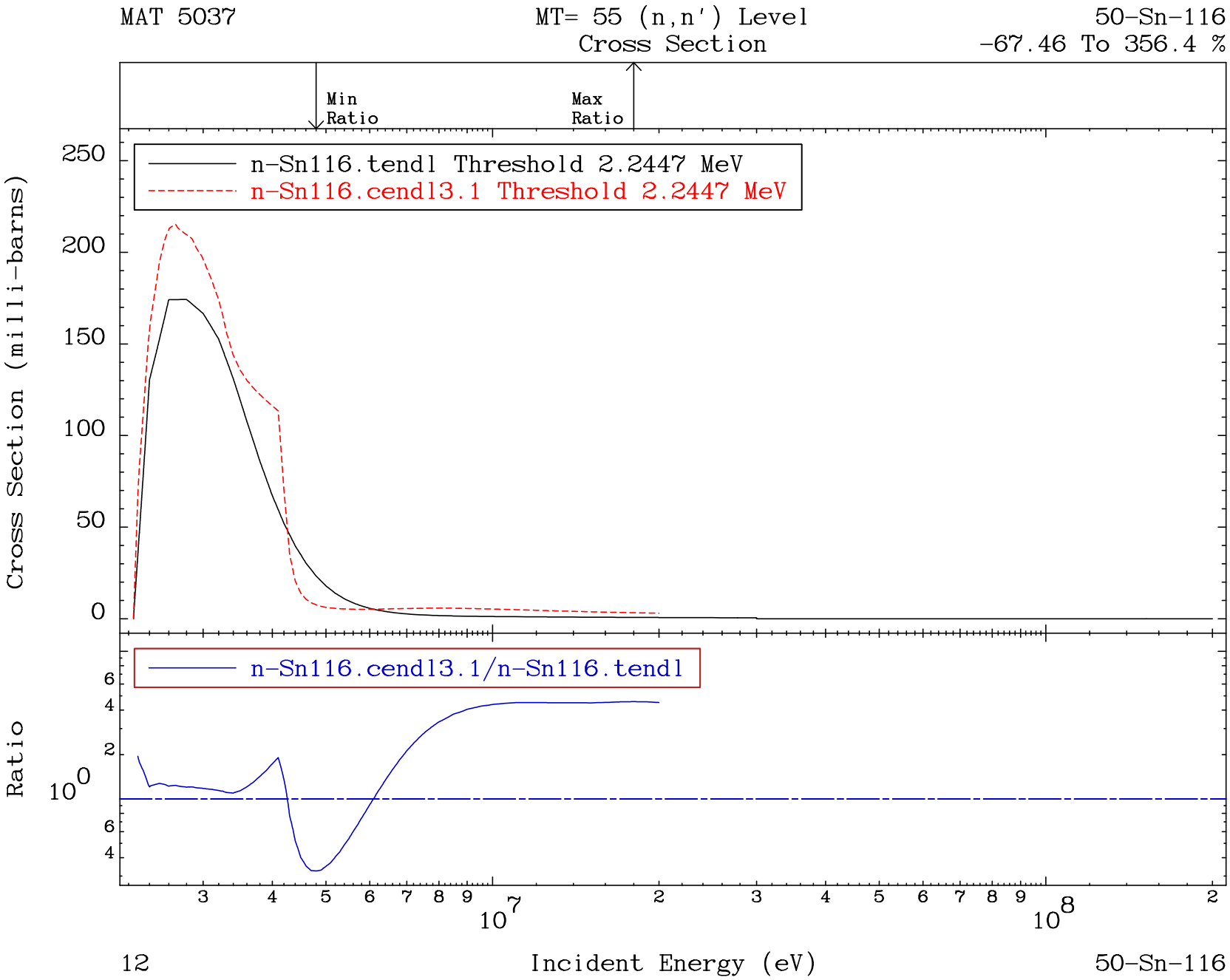

MAT 5037
(n,n') p
Cross Section
50-Sn-116
-96.89 To -45.20%
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 9.3593 MeV
n-Sn116.cendl3.1 Threshold 10.750 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-1
6
4
6
4
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
50-Sn-116

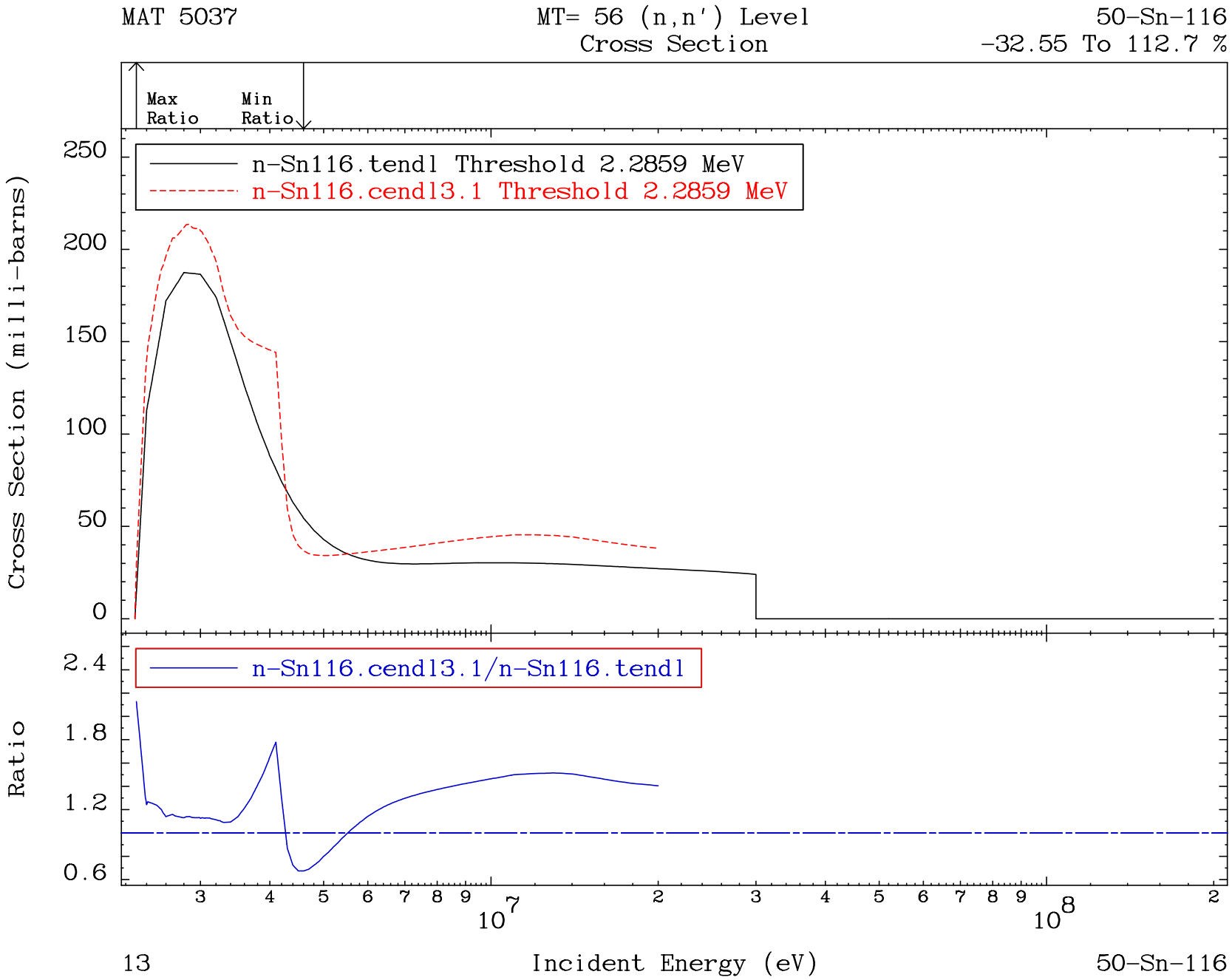

MAT 5037
MT= 51 (n,n') Level
Cross Section
50-Sn-116
-45.59 To 33.76 %
Max Ratio
Min Ratio
n-Sn116.tendl Threshold 1.3048 MeV
n-Sn116.cendl3.1 Threshold 1.3048 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
1.2
0.8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
50-Sn-116

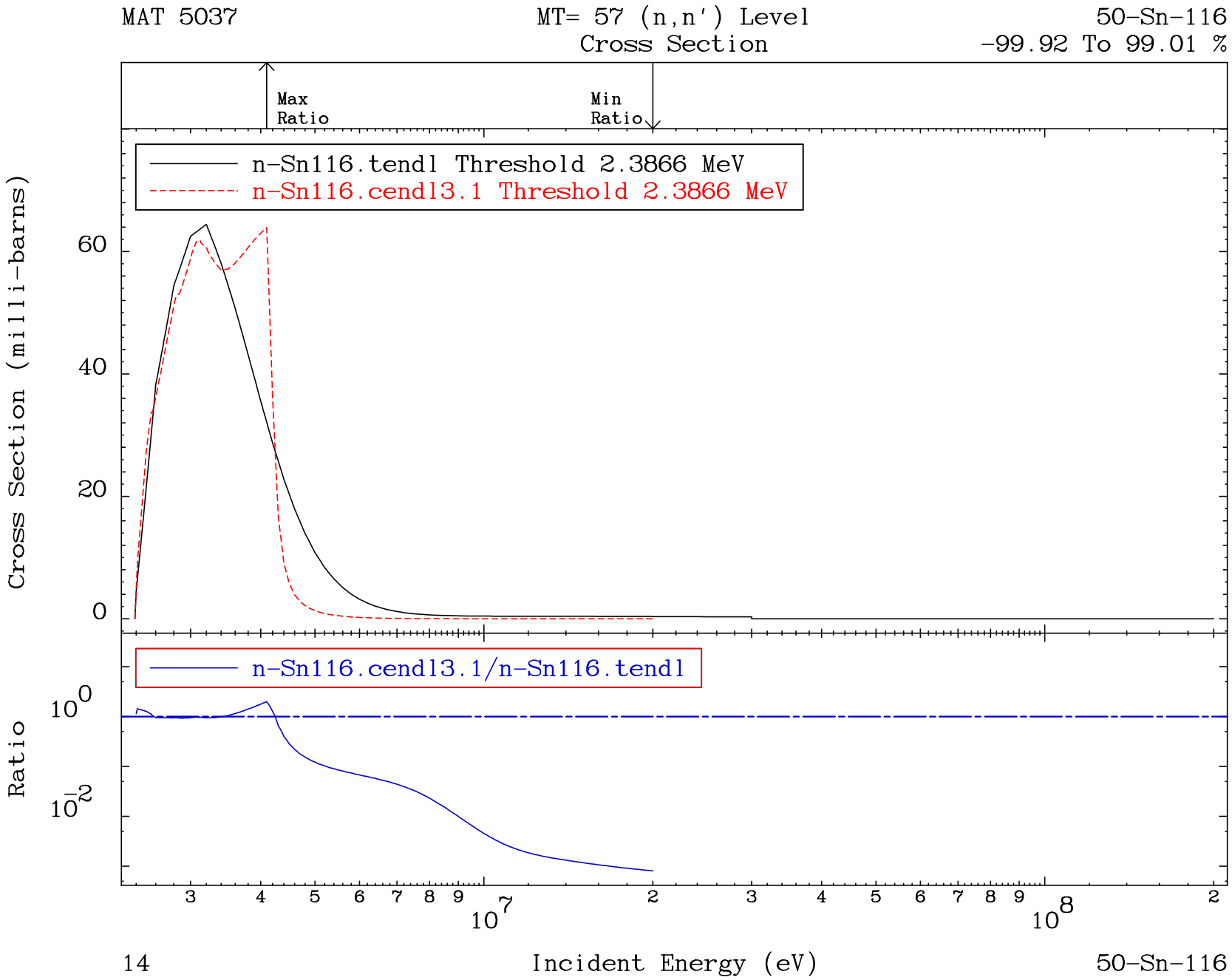

MAT 5037
MT= 52 (n,n') Level
Cross Section
50-Sn-116
-93.76 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 1.7722 MeV
n-Sn116.cendl3.1 Threshold 1.7722 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^2
10^0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
50-Sn-116

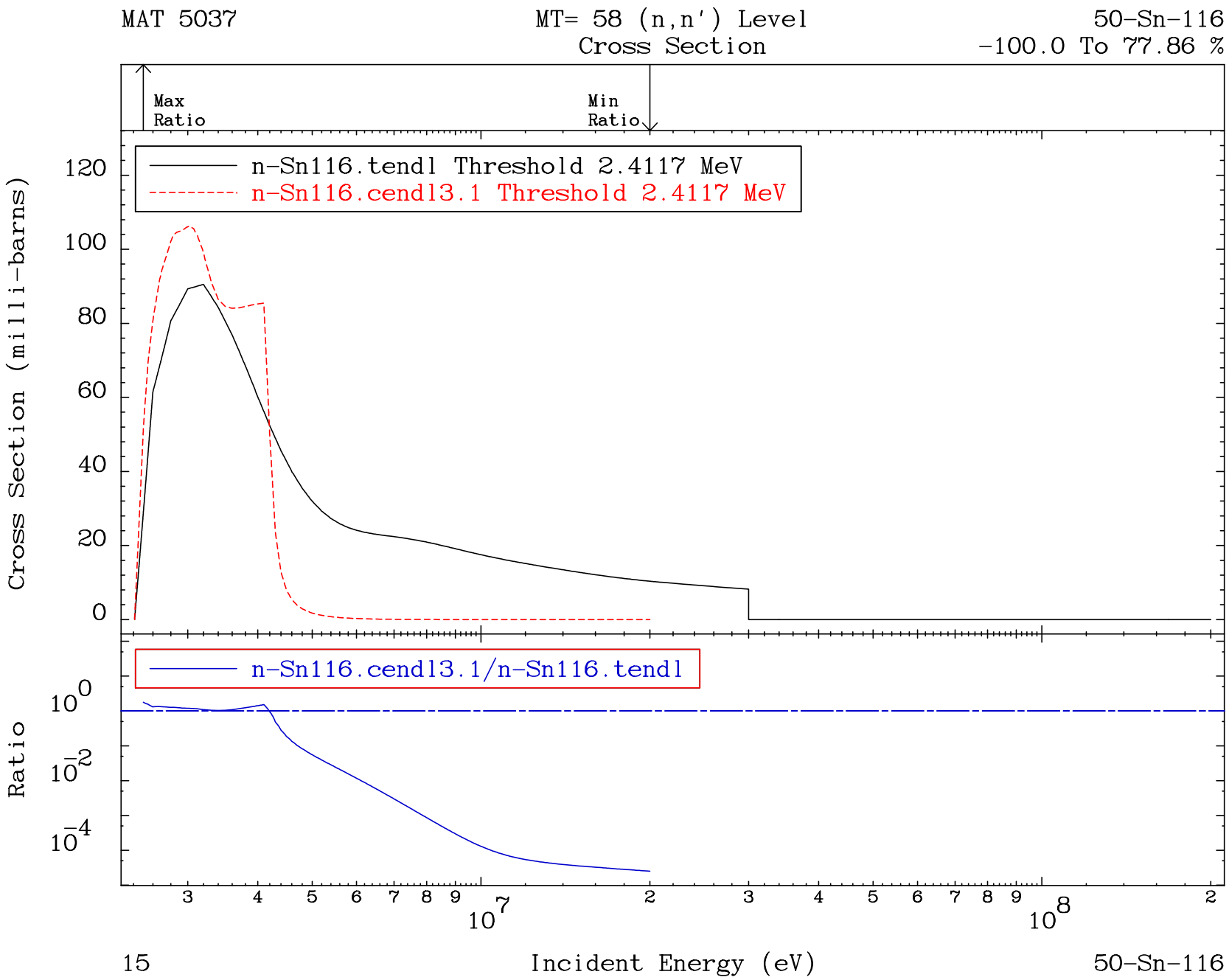

MAT 5037
MT= 53 (n,n') Level
Cross Section
50-Sn-116
-94.13 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 2.0451 MeV
n-Sn116.cendl3.1 Threshold 2.0451 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
50-Sn-116

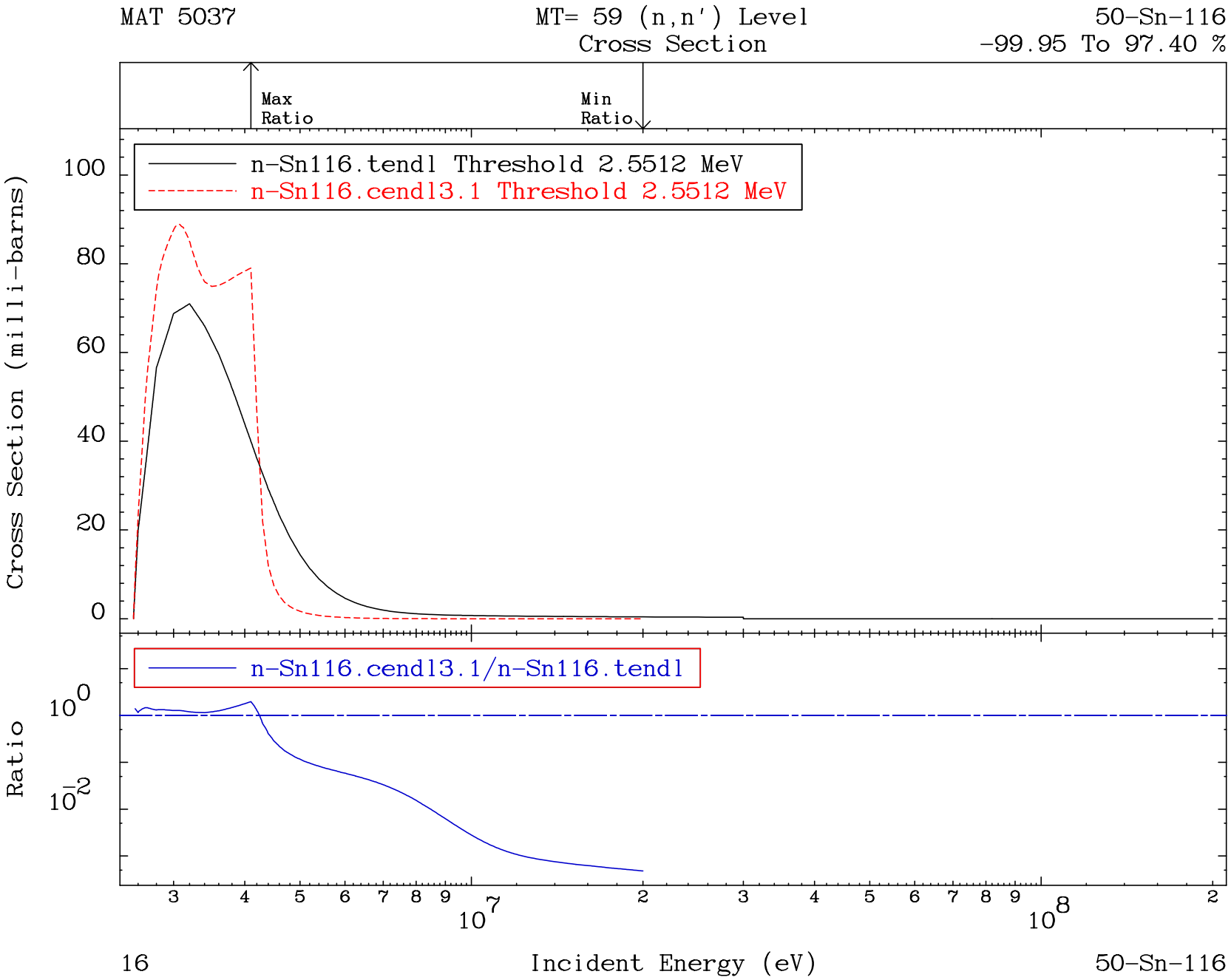

MAT 5037
MT= 54 (n,n') Level
Cross Section
50-Sn-116
-67.40 To 358.5 %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 2.1307 MeV
n-Sn116.cendl3.1 Threshold 2.1307 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
6
4
2
6
4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
50-Sn-116

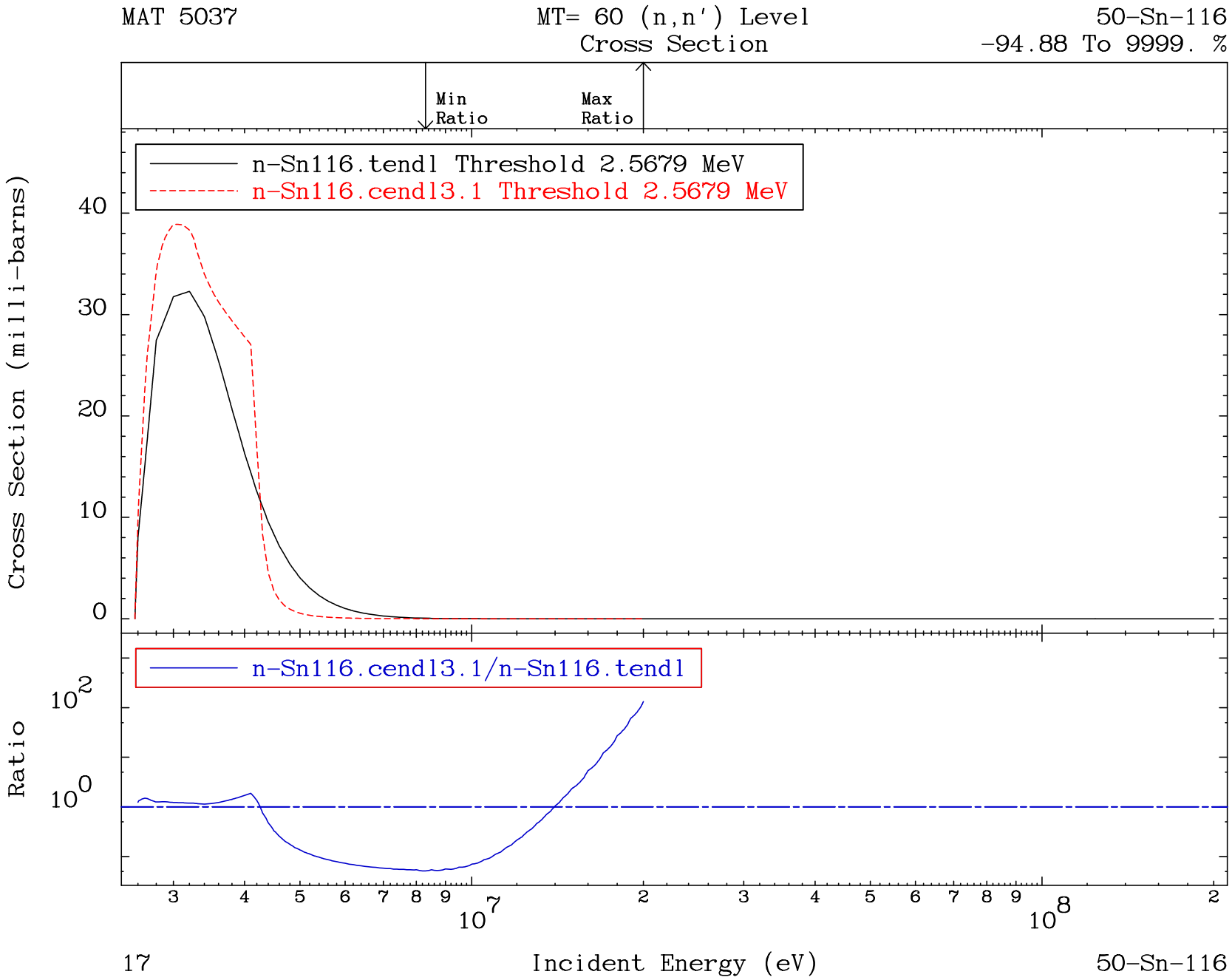

MAT 5037
MT= 55 (n,n') Level
Cross Section
50-Sn-116
-67.46 To 356.4 %
Min
Ratio
Max
Ratio
n-Sn116.tendl Threshold 2.2447 MeV
n-Sn116.cendl3.1 Threshold 2.2447 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
6
4
2
10^0
6
4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
50-Sn-116

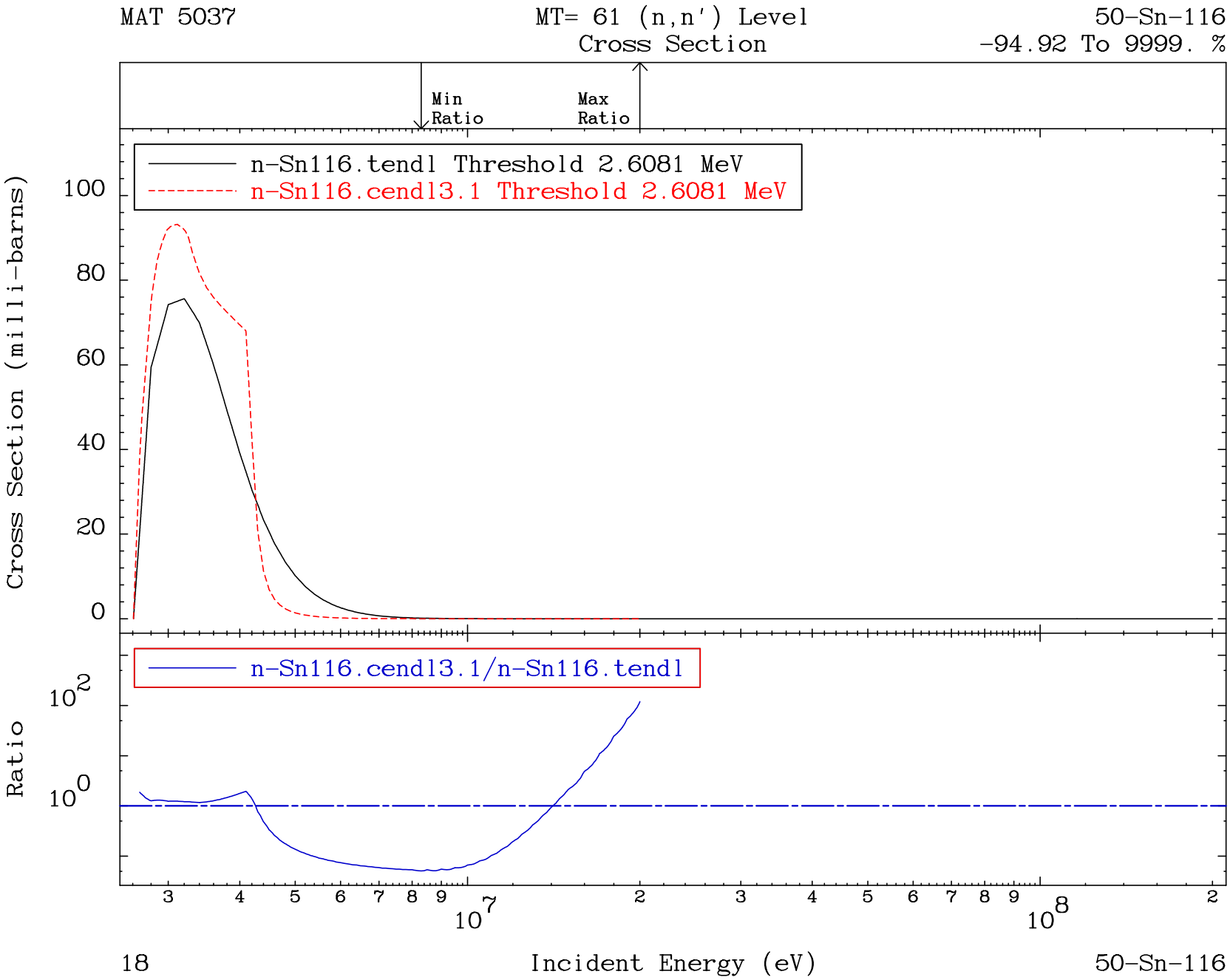

MAT 5037
MT= 56 (n,n') Level
Cross Section
50-Sn-116
-32.55 To 112.7 %
Max Ratio
Min Ratio
n-Sn116.tendl Threshold 2.2859 MeV
n-Sn116.cendl3.1 Threshold 2.2859 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
2.4
1.8
1.2
0.6
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
13
Incident Energy (eV)
50-Sn-116

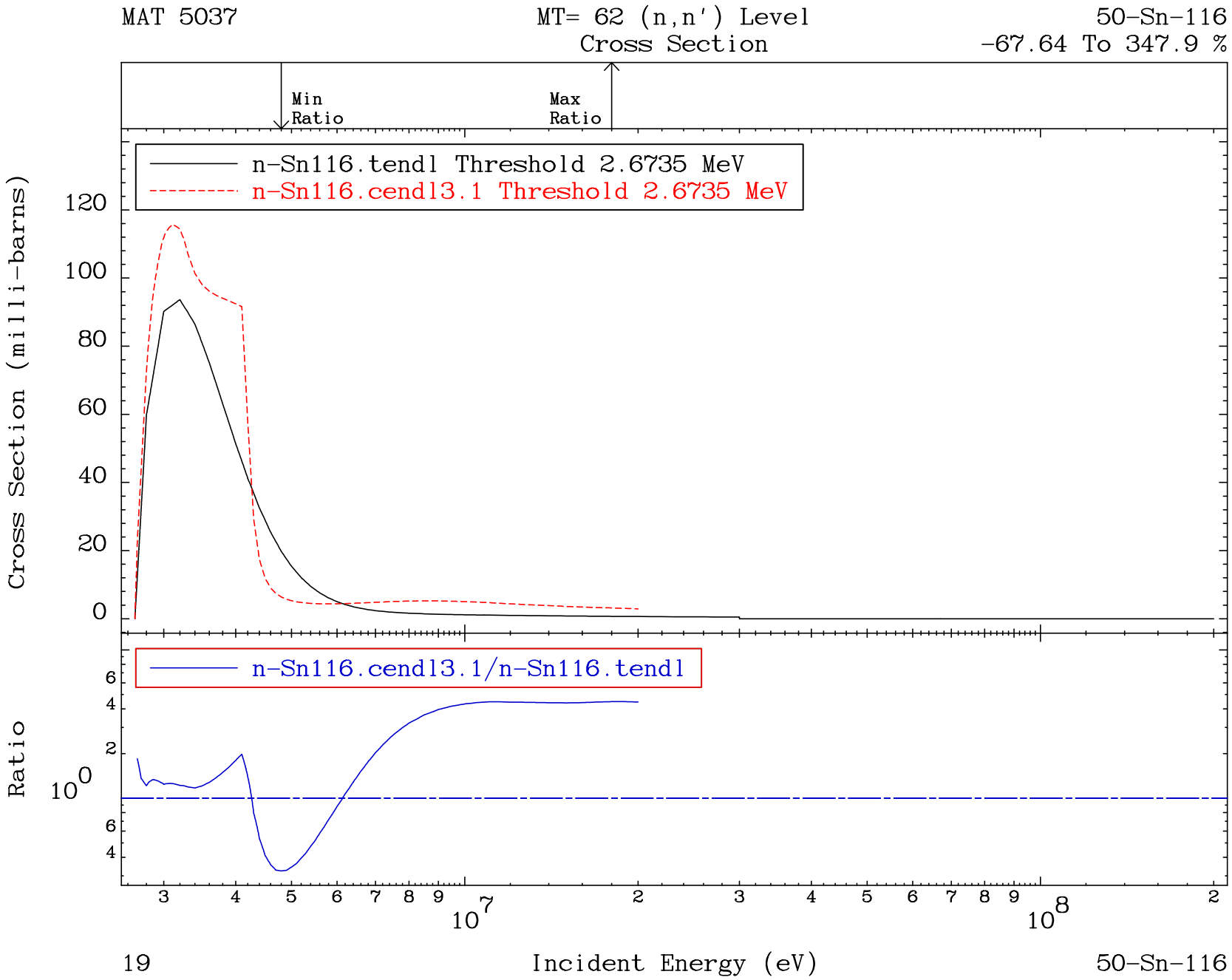

MAT 5037
MT= 57 (n,n') Level
Cross Section
50-Sn-116
-99.92 To 99.01 %
Max
Ratio
Min
Ratio
n-Sn116.tendl Threshold 2.3866 MeV
n-Sn116.cendl3.1 Threshold 2.3866 MeV
Cross Section (milli-barns)
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
50-Sn-116

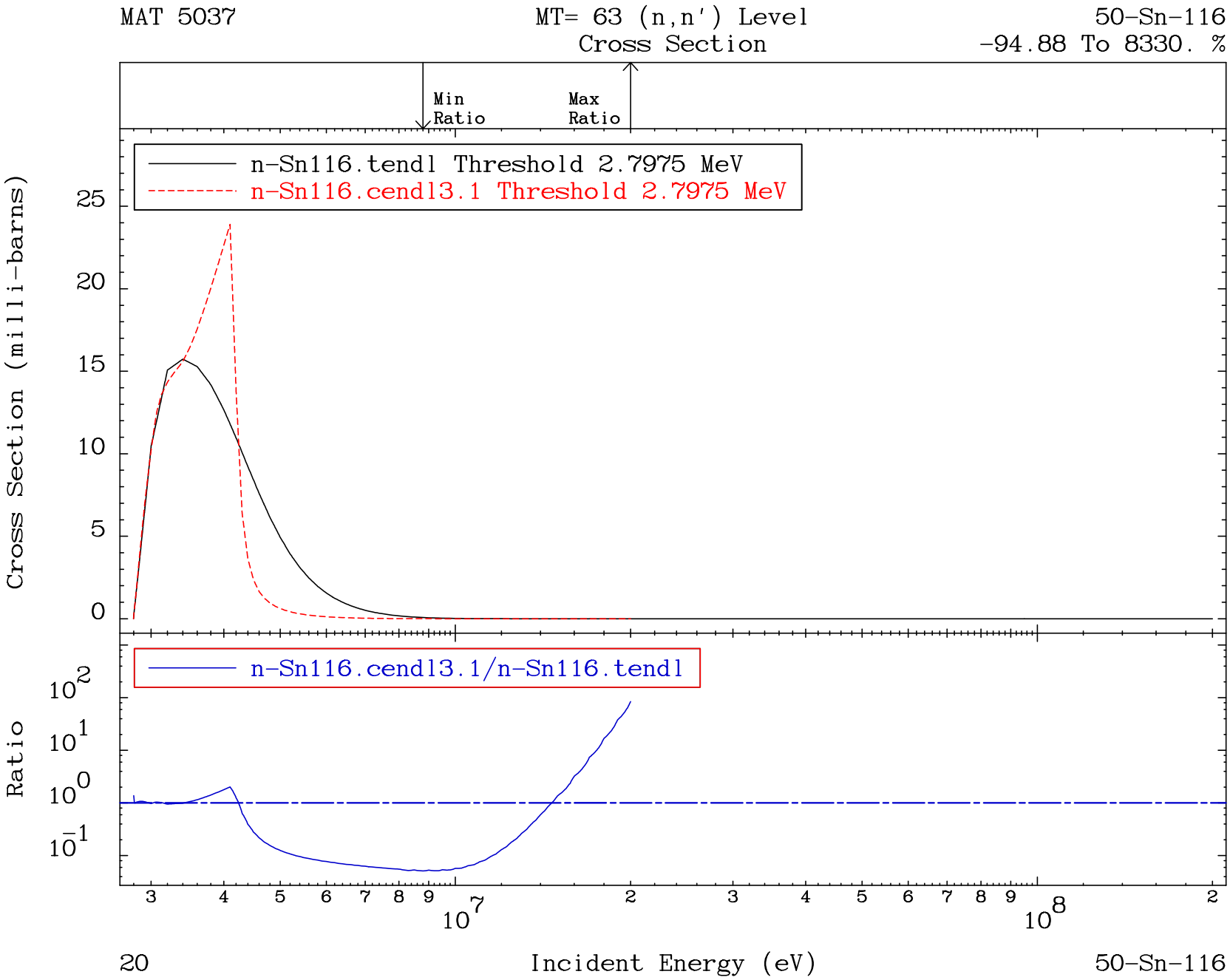

MAT 5037
MT= 58 (n,n') Level
Cross Section
50-Sn-116
-100.0 To 77.86 %
Max Ratio
Min Ratio
n-Sn116.tendl Threshold 2.4117 MeV
n-Sn116.cendl3.1 Threshold 2.4117 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-2
10^-4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
50-Sn-116

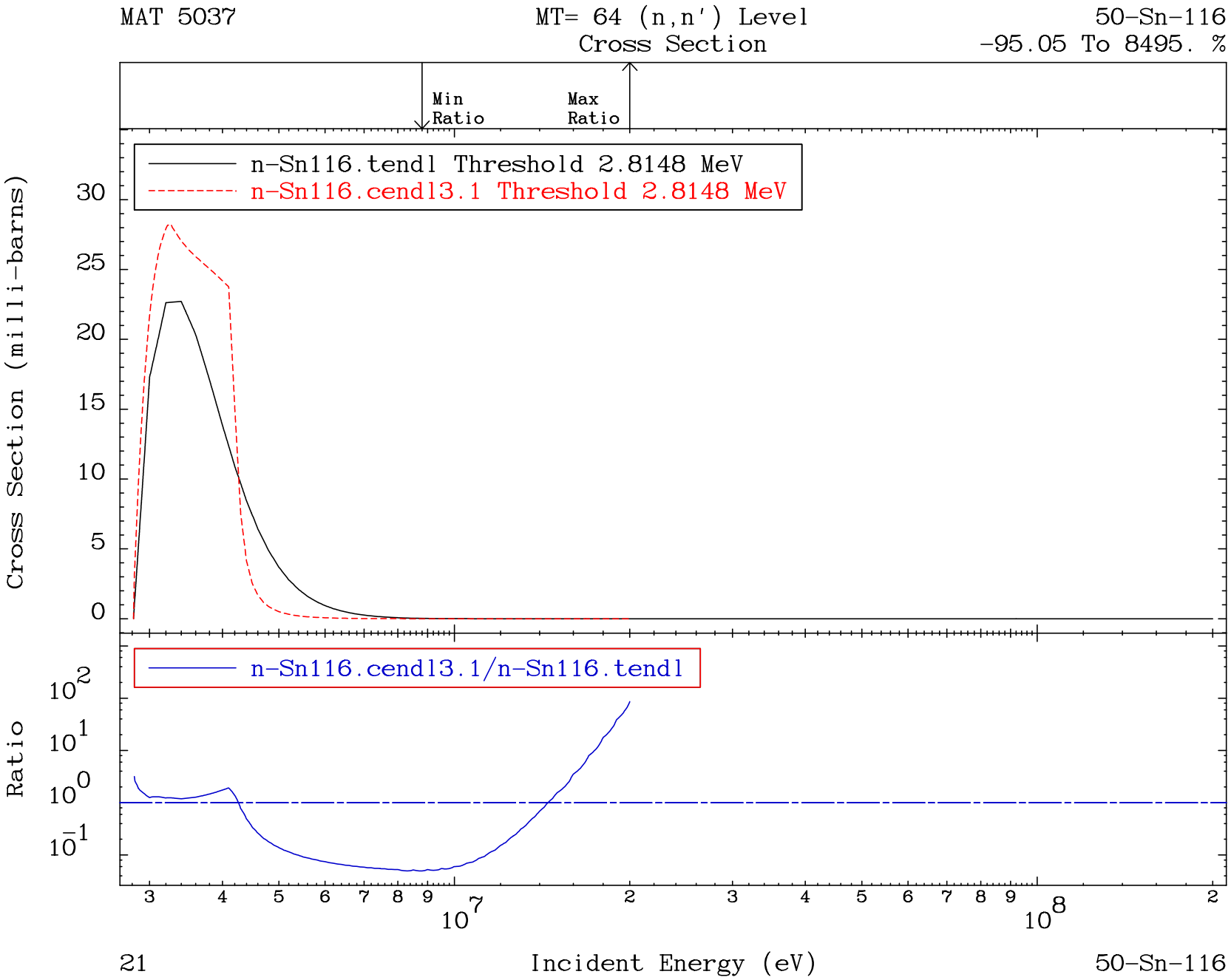

MAT 5037
MT= 59 (n,n') Level
Cross Section
50-Sn-116
-99.95 To 97.40 %
Max
Ratio
Min
Ratio
n-Sn116.tendl Threshold 2.5512 MeV
n-Sn116.cendl3.1 Threshold 2.5512 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
50-Sn-116

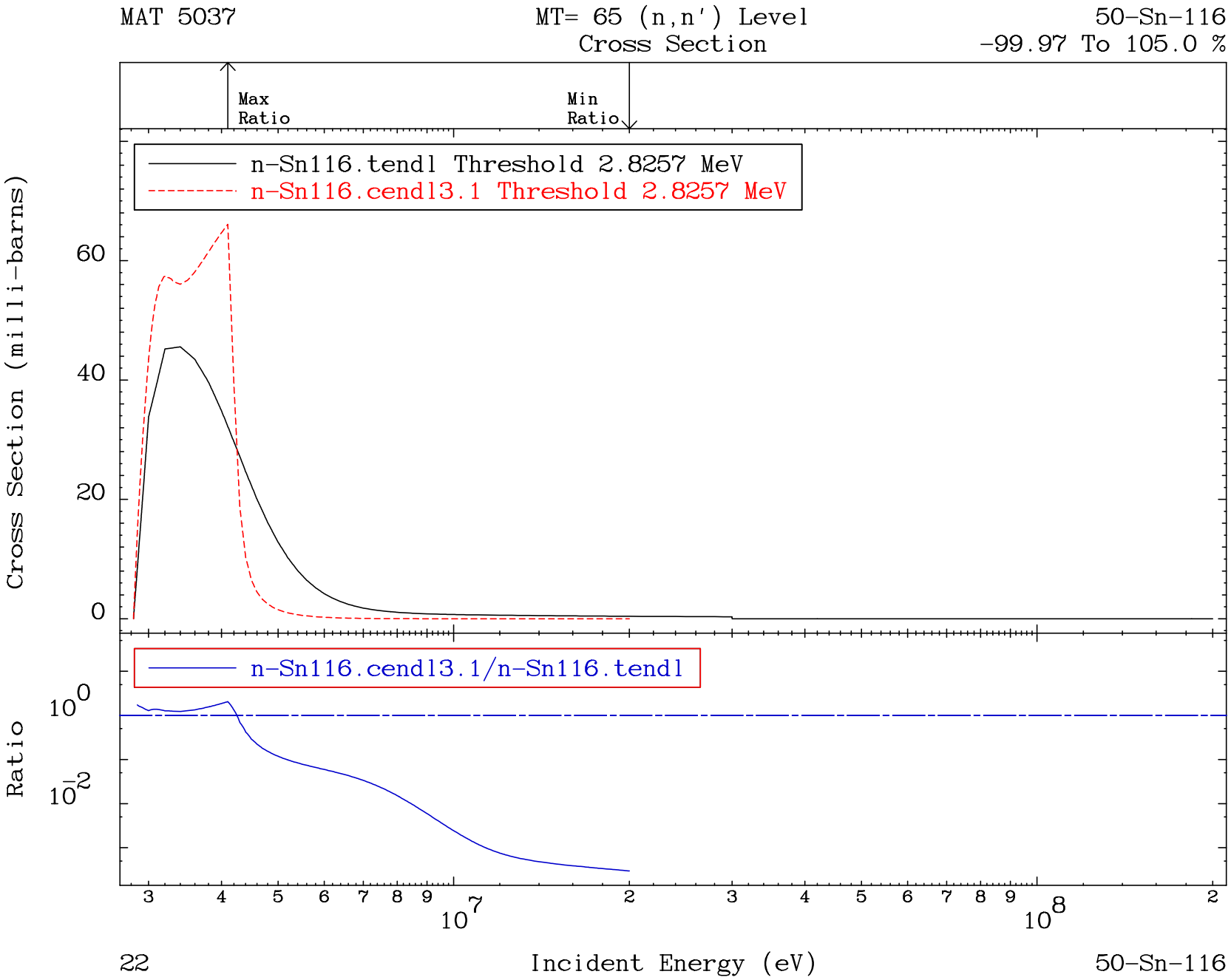

MAT 5037
MT= 60 (n,n') Level
Cross Section
50-Sn-116
-94.88 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 2.5679 MeV
n-Sn116.cendl3.1 Threshold 2.5679 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
50-Sn-116

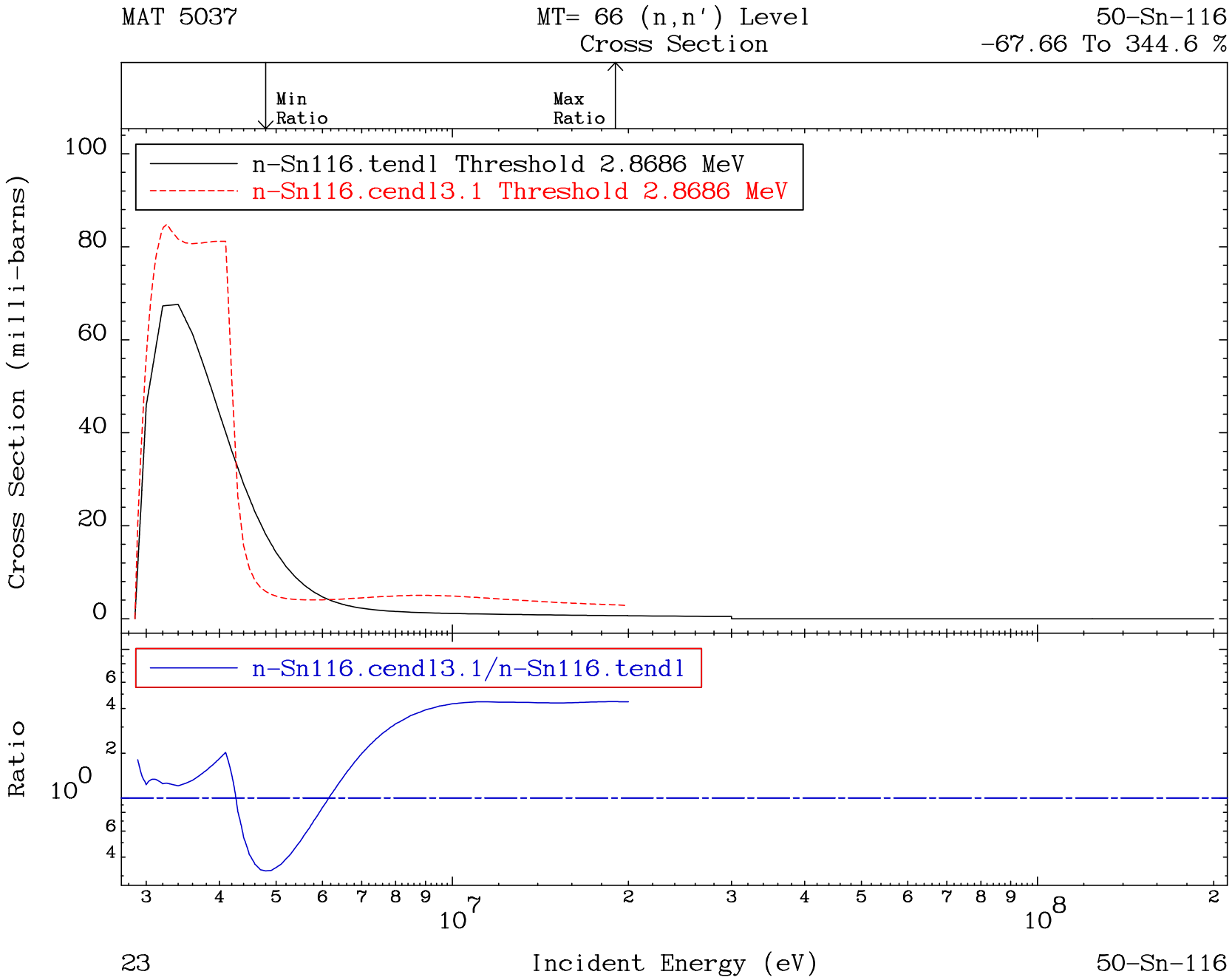

MAT 5037
MT= 61 (n,n') Level
Cross Section
50-Sn-116
-94.92 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 2.6081 MeV
n-Sn116.cendl3.1 Threshold 2.6081 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
18
Incident Energy (eV)
50-Sn-116

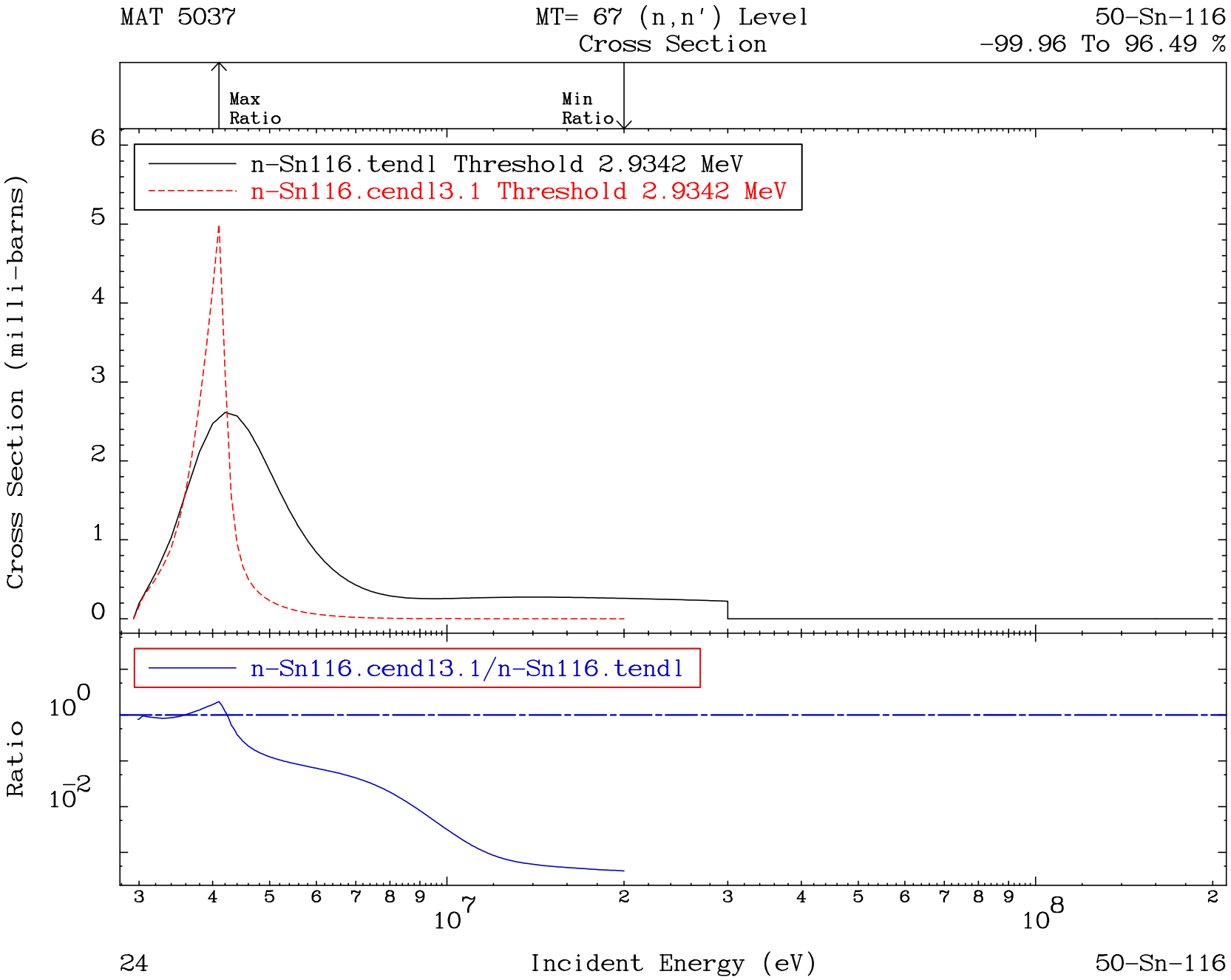

MAT 5037
MT= 62 (n,n') Level
Cross Section
50-Sn-116
-67.64 To 347.9 %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 2.6735 MeV
n-Sn116.cendl3.1 Threshold 2.6735 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
6
4
2
6
4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
50-Sn-116

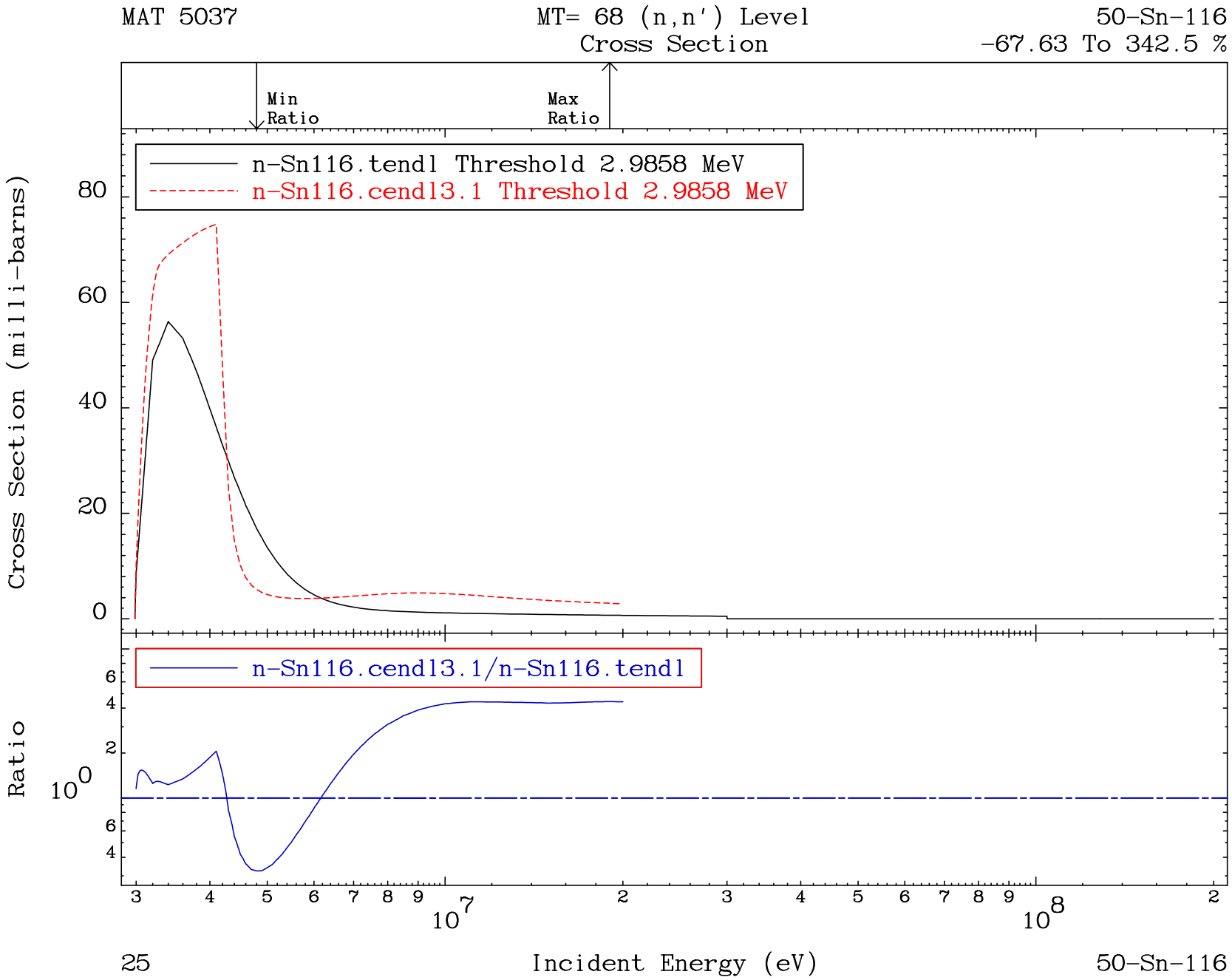

MAT 5037
MT= 63 (n,n') Level
Cross Section
50-Sn-116
-94.88 To 8330. %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 2.7975 MeV
n-Sn116.cendl3.1 Threshold 2.7975 MeV
Cross Section (milli-barns)
0
5
10
15
20
25
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^{2}
10^{1}
10^{0}
10^{-1}
3 4 5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
20
Incident Energy (eV)
50-Sn-116

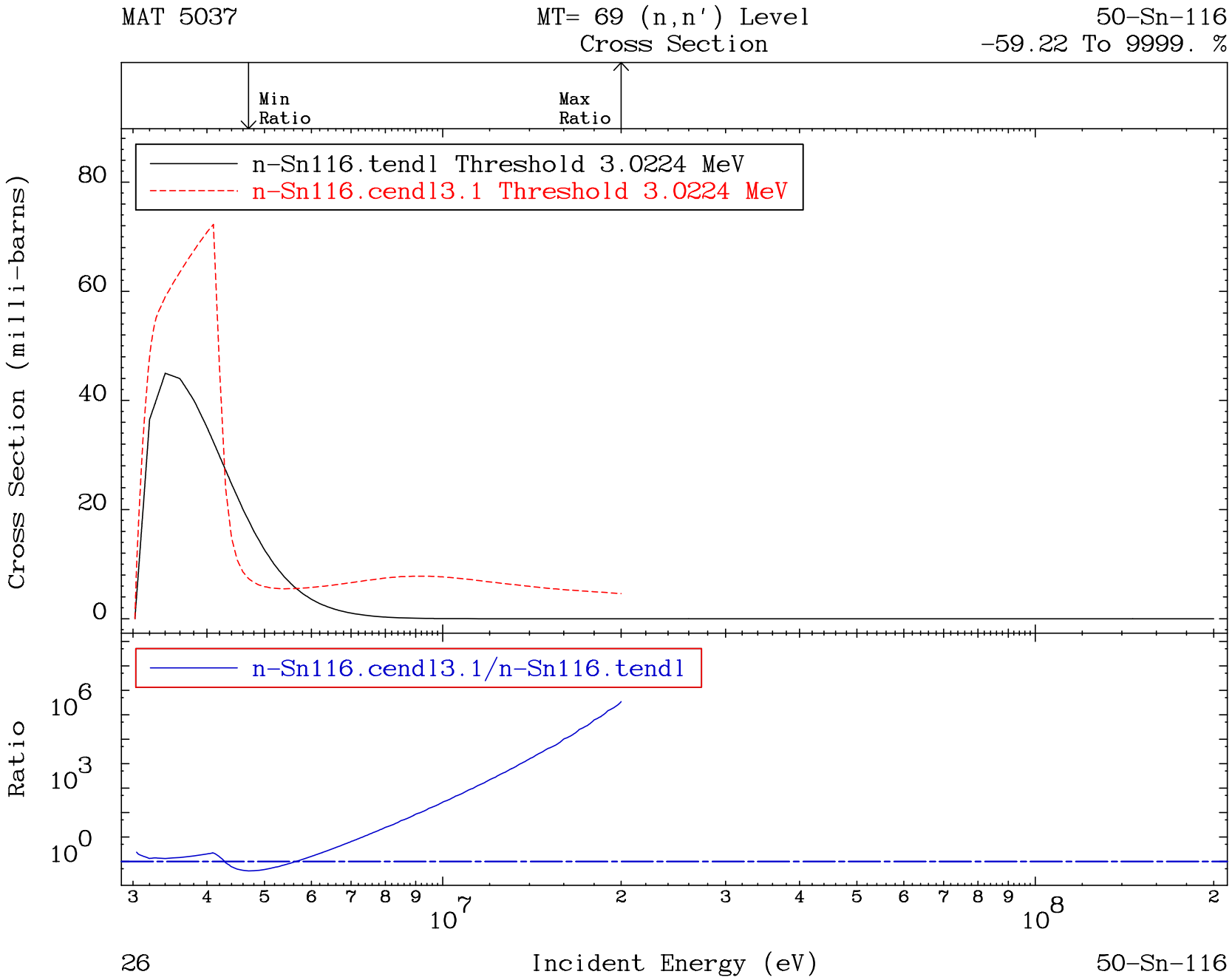

MAT 5037
MT= 64 (n,n') Level
Cross Section
50-Sn-116
-95.05 To 8495. %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 2.8148 MeV
n-Sn116.cendl3.1 Threshold 2.8148 MeV
Cross Section (milli-barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
21
50-Sn-116

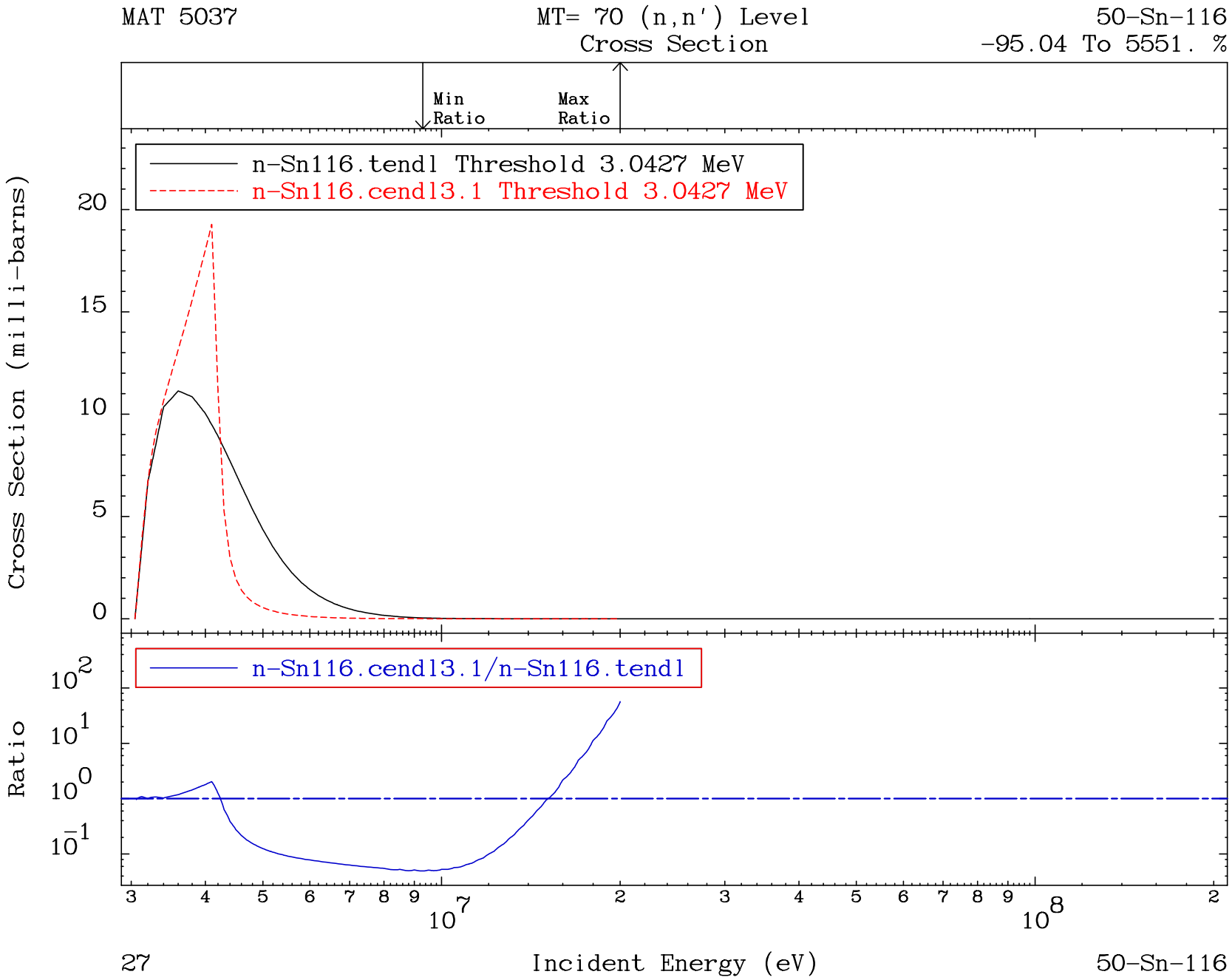

MAT 5037
MT= 65 (n,n') Level
Cross Section
50-Sn-116
-99.97 To 105.0 %
Max
Ratio
Min
Ratio
n-Sn116.tendl Threshold 2.8257 MeV
n-Sn116.cendl3.1 Threshold 2.8257 MeV
Cross Section (milli-barns)
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
50-Sn-116

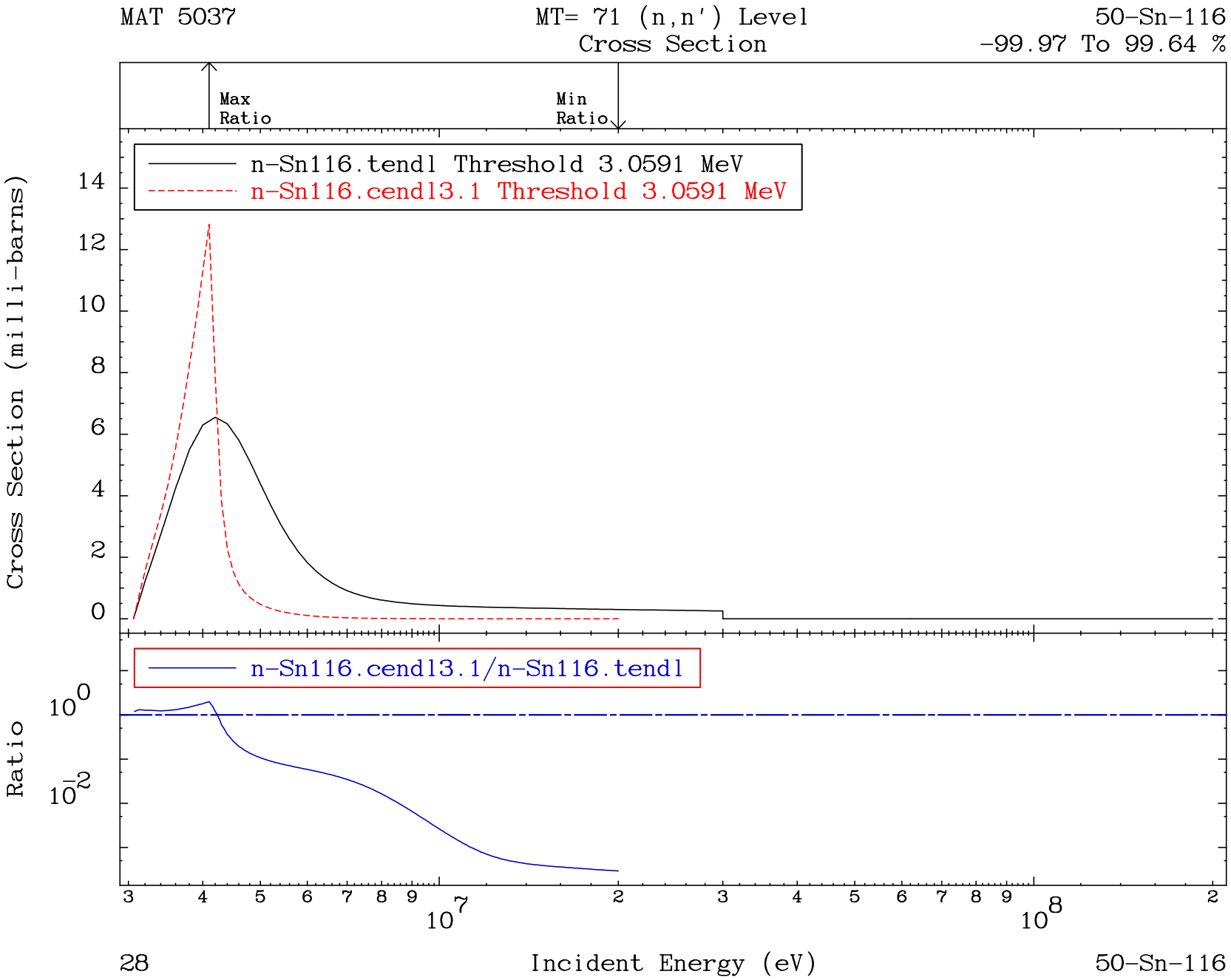

MAT 5037
MT= 66 (n,n') Level
Cross Section
50-Sn-116
-67.66 To 344.6 %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 2.8686 MeV
n-Sn116.cendl3.1 Threshold 2.8686 MeV
Cross Section (milli-barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
23
50-Sn-116

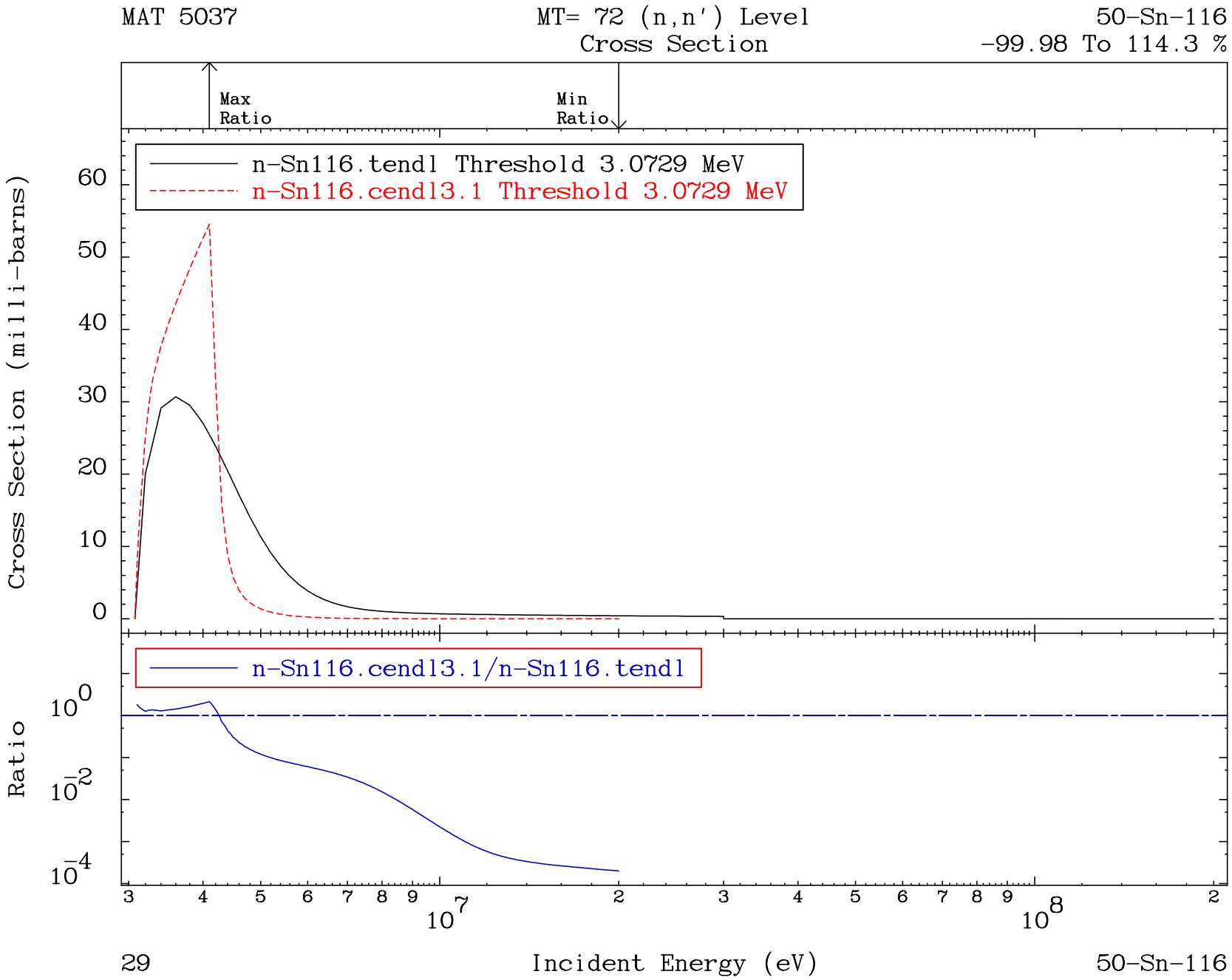

MAT 5037
MT= 67 (n,n') Level
Cross Section
50-Sn-116
-99.96 To 96.49 %
Max
Ratio
Min
Ratio
n-Sn116.tendl Threshold 2.9342 MeV
n-Sn116.cendl3.1 Threshold 2.9342 MeV
Cross Section (milli-barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
24
50-Sn-116

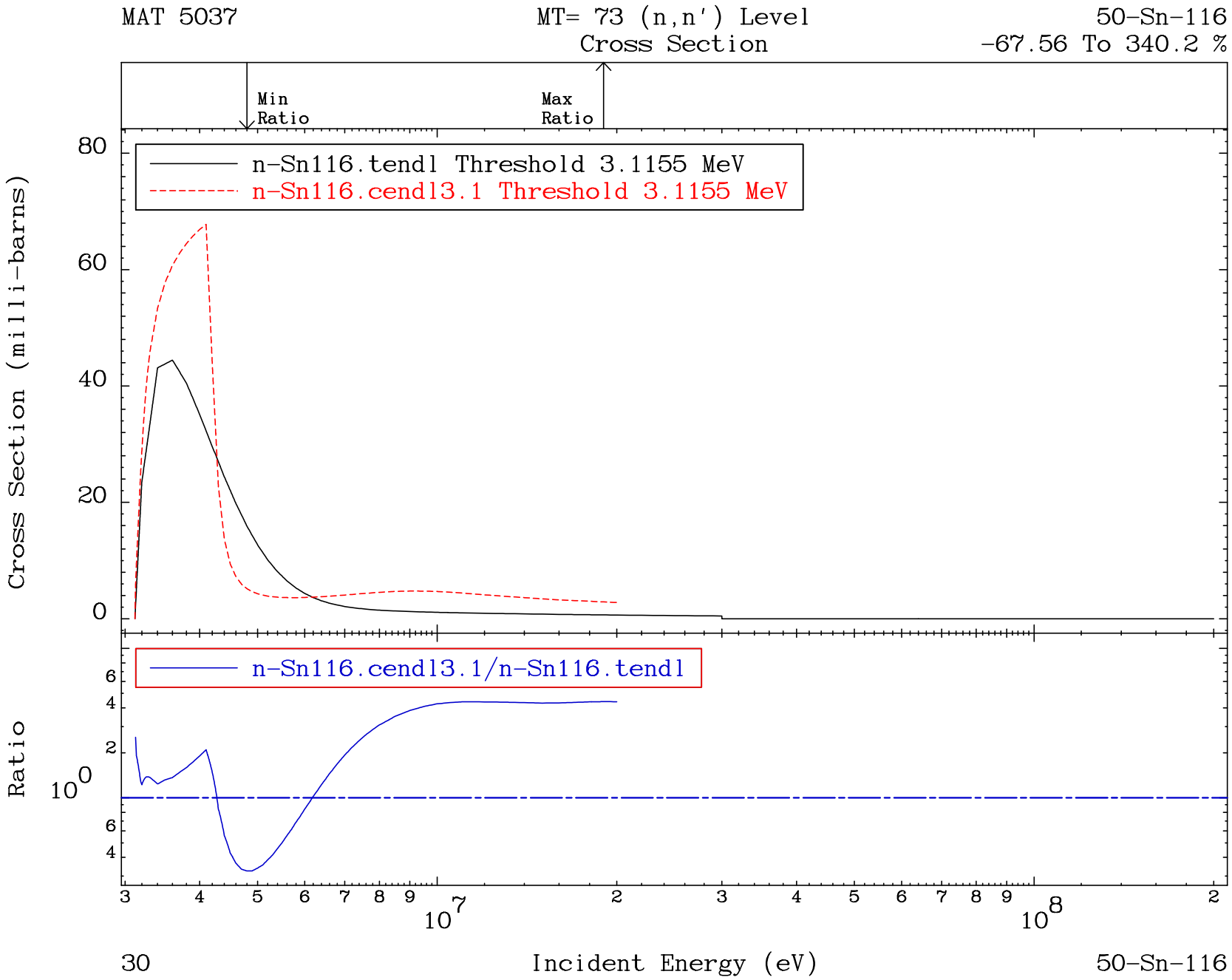

MAT 5037
MT= 68 (n,n') Level
Cross Section
50-Sn-116
-67.63 To 342.5 %
Min
Ratio
Max
Ratio
n-Sn116.tendl Threshold 2.9858 MeV
n-Sn116.cendl3.1 Threshold 2.9858 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
6
4
2
6
4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
25
Incident Energy (eV)
50-Sn-116

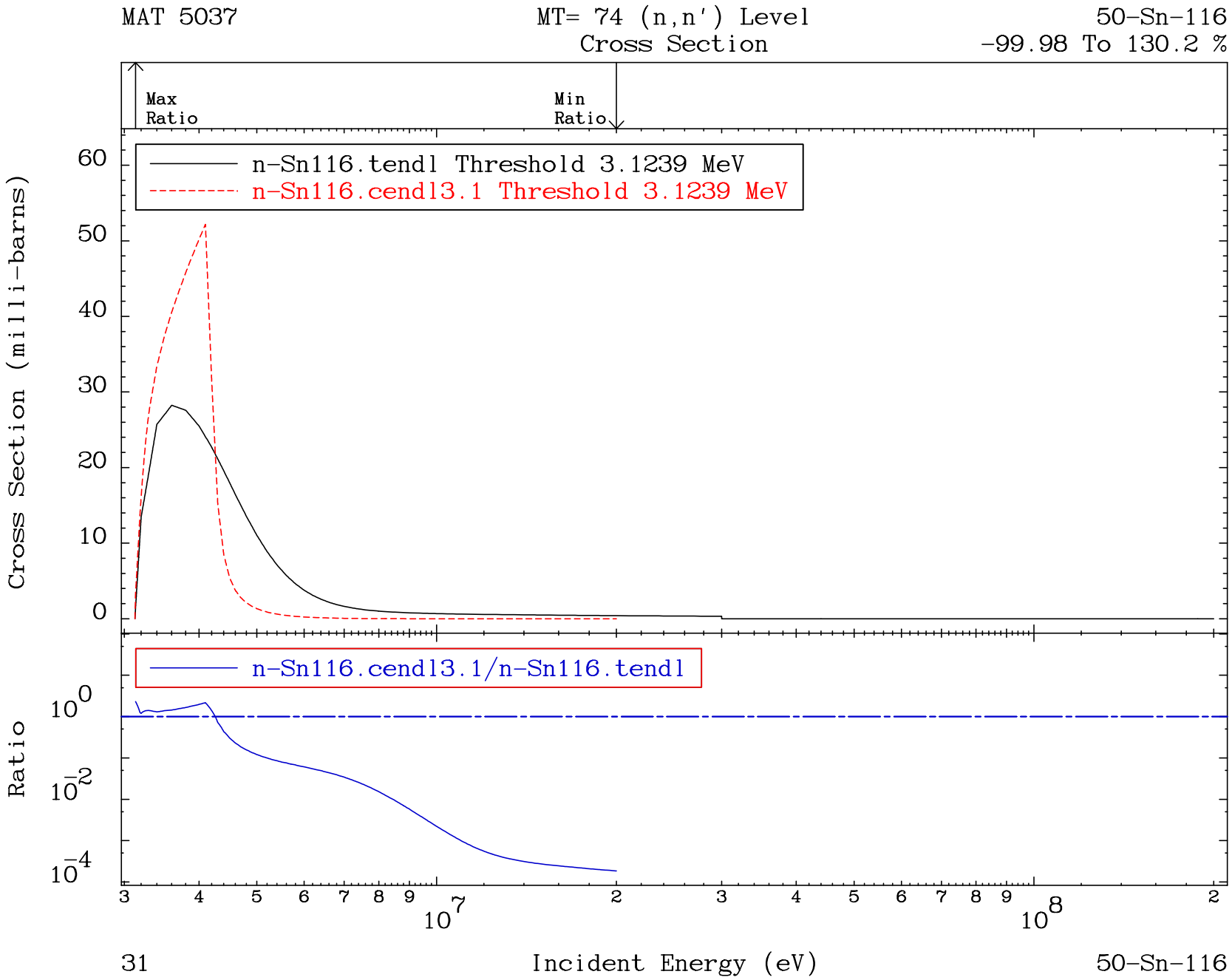

MAT 5037
MT= 69 (n,n') Level
Cross Section
50-Sn-116
-59.22 To 9999. %
Min
Ratio
Max
Ratio
n-Sn116.tendl Threshold 3.0224 MeV
n-Sn116.cendl3.1 Threshold 3.0224 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^6
10^3
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
50-Sn-116

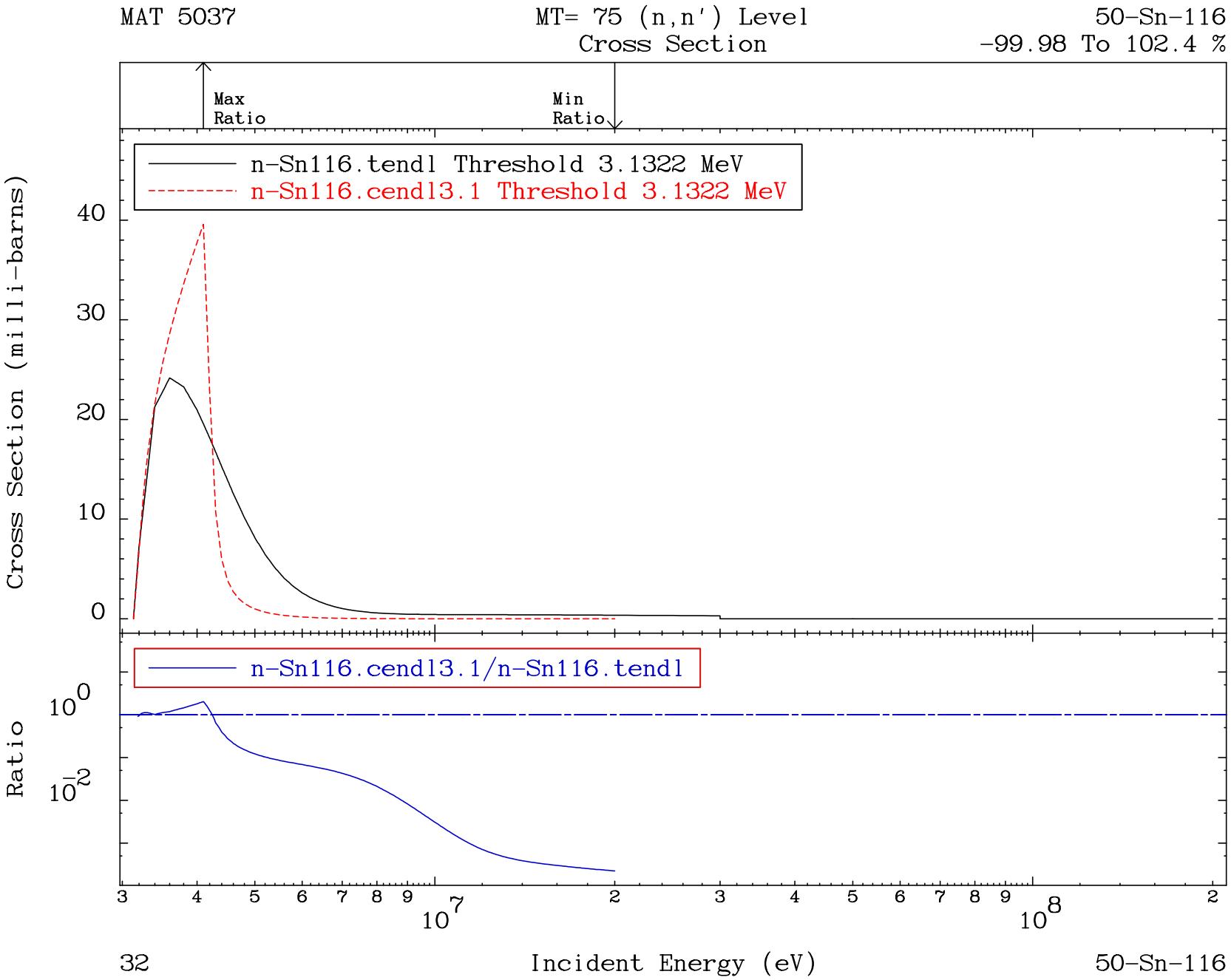

MAT 5037
MT= 70 (n,n') Level
Cross Section
50-Sn-116
-95.04 To 5551. %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 3.0427 MeV
n-Sn116.cendl3.1 Threshold 3.0427 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^2
10^1
10^0
10^-1
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
50-Sn-116

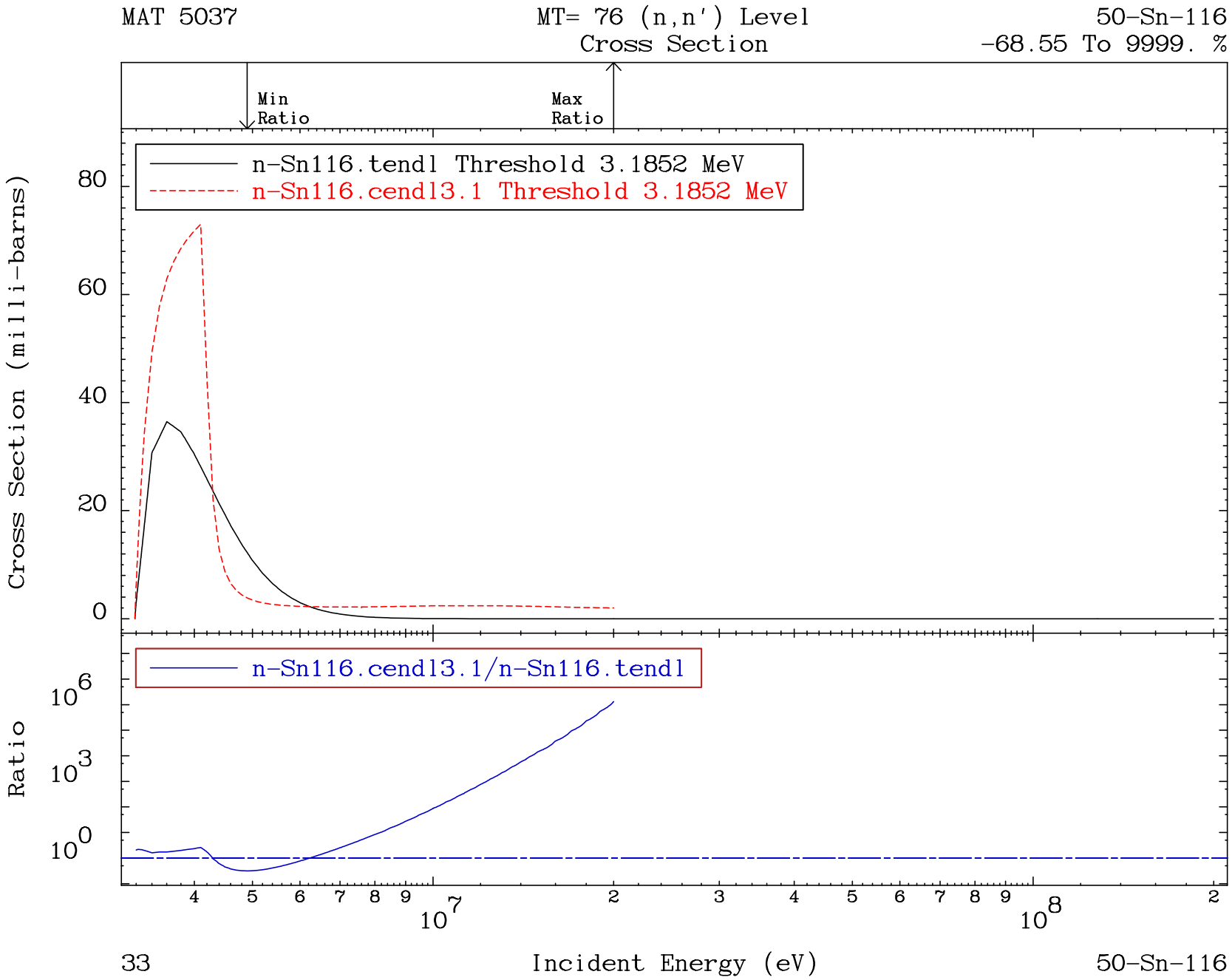

MAT 5037
MT= 71 (n,n') Level
Cross Section
50-Sn-116
-99.97 To 99.64 %
Max Ratio
Min Ratio
n-Sn116.tendl Threshold 3.0591 MeV
n-Sn116.cendl3.1 Threshold 3.0591 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^{0}
10^{-2}
3 4 5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
28
Incident Energy (eV)
50-Sn-116

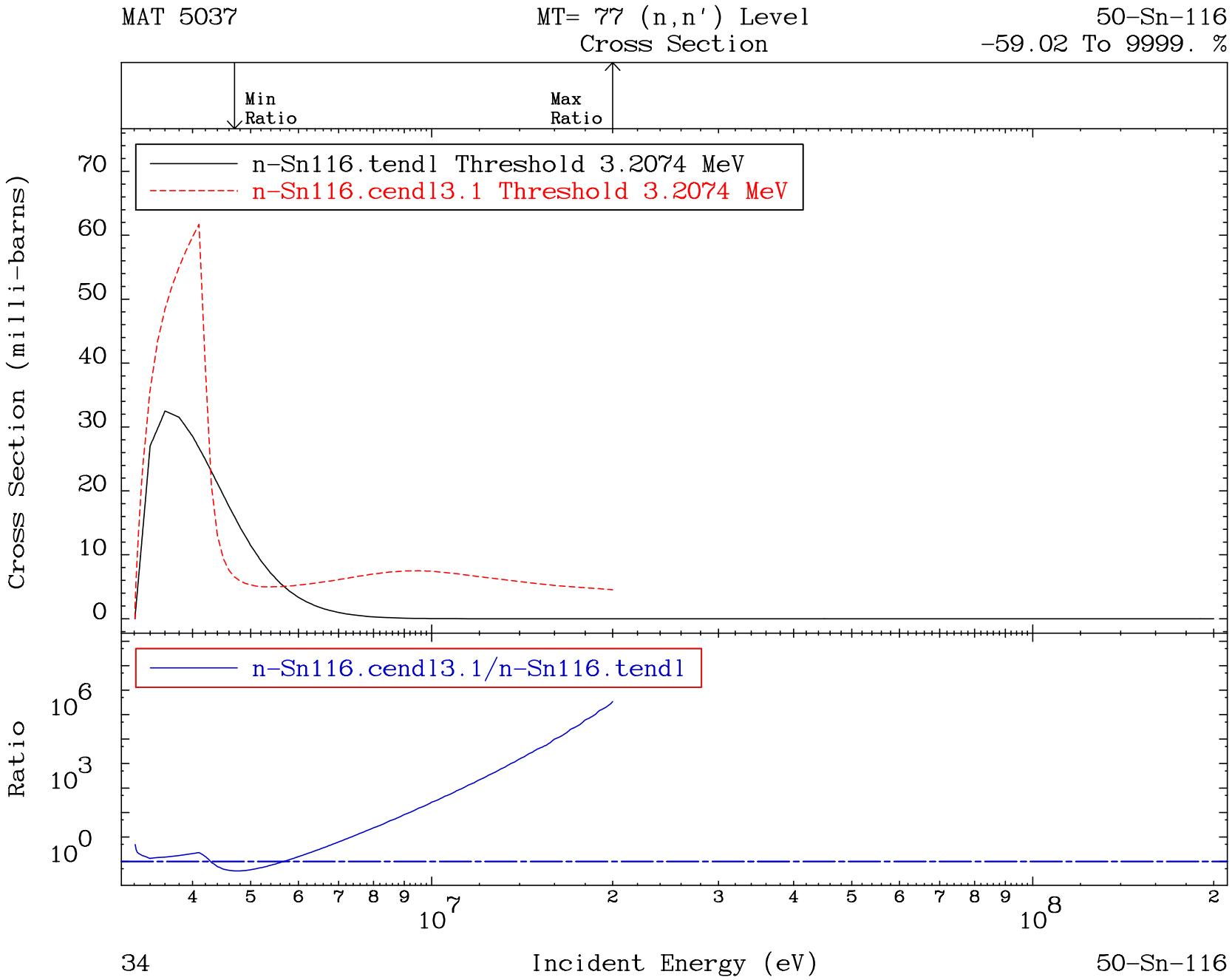

MAT 5037
MT= 72 (n,n') Level
Cross Section
50-Sn-116
-99.98 To 114.3 %
Max
Ratio
Min
Ratio
n-Sn116.tendl Threshold 3.0729 MeV
n-Sn116.cendl3.1 Threshold 3.0729 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-2
10^-4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
50-Sn-116

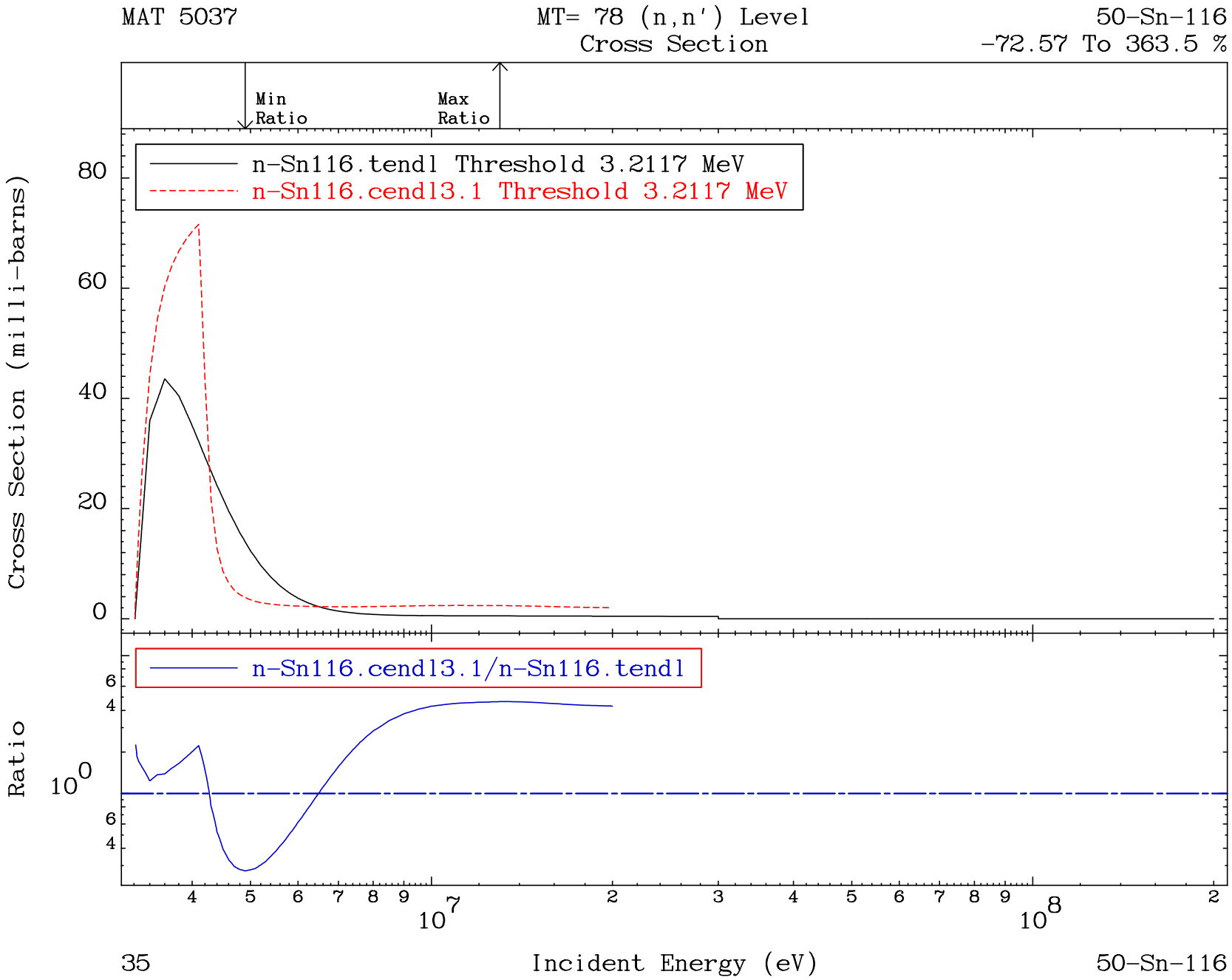

MAT 5037
MT= 73 (n,n') Level
Cross Section
50-Sn-116
-67.56 To 340.2 %
Min
Ratio
Max
Ratio
n-Sn116.tendl Threshold 3.1155 MeV
n-Sn116.cendl3.1 Threshold 3.1155 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
6
4
2
6
4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
30
Incident Energy (eV)
50-Sn-116

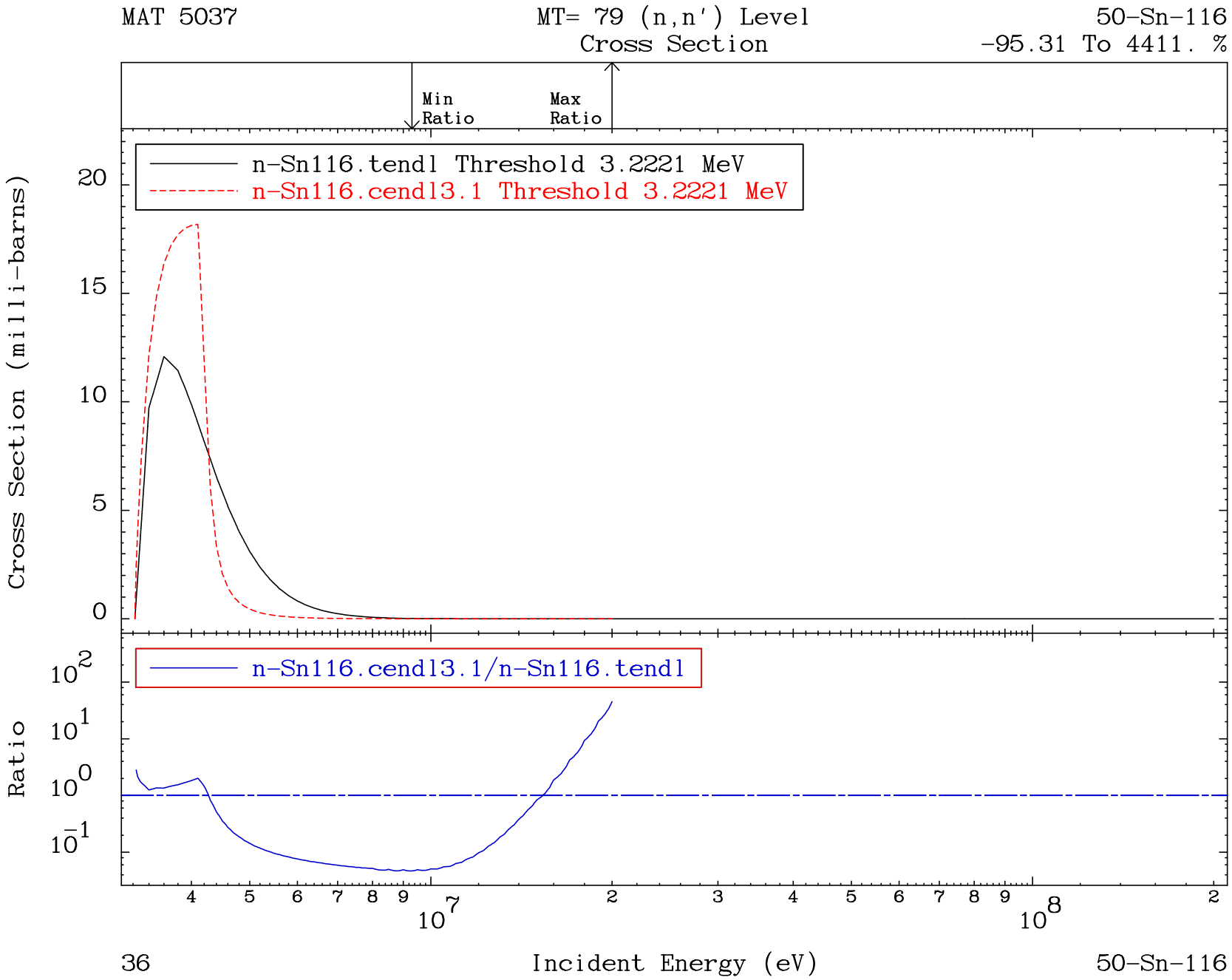

MAT 5037
MT= 74 (n,n') Level
Cross Section
50-Sn-116
-99.98 To 130.2 %
Max Ratio
Min Ratio
n-Sn116.tendl Threshold 3.1239 MeV
n-Sn116.cendl3.1 Threshold 3.1239 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-2
10^-4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
50-Sn-116

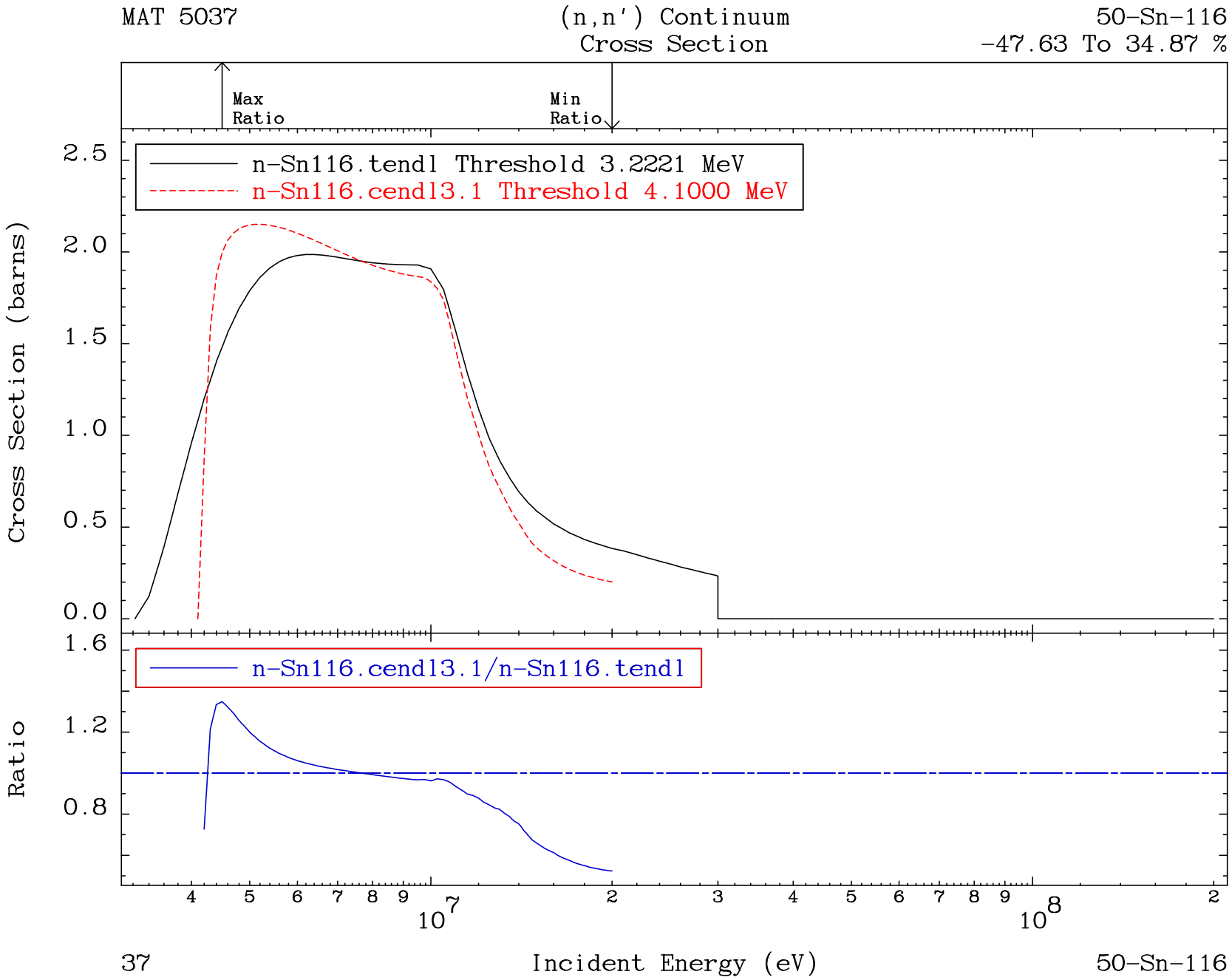

MAT 5037
MT= 75 (n,n') Level
Cross Section
50-Sn-116
-99.98 To 102.4 %
Max Ratio
Min Ratio
n-Sn116.tendl Threshold 3.1322 MeV
n-Sn116.cendl3.1 Threshold 3.1322 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
50-Sn-116

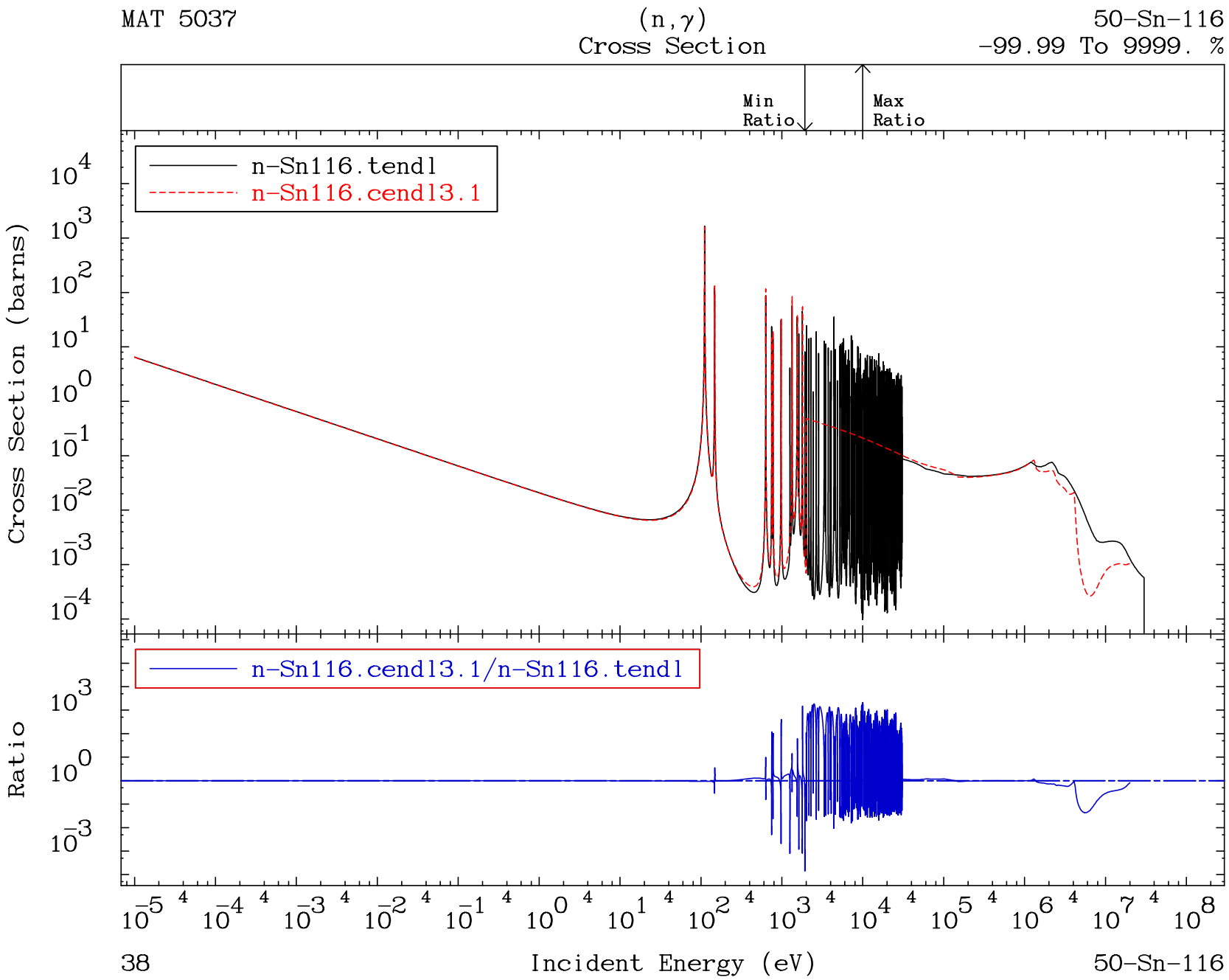

MAT 5037
MT= 76 (n,n') Level
Cross Section
50-Sn-116
-68.55 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 3.1852 MeV
n-Sn116.cendl3.1 Threshold 3.1852 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^6
10^3
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
50-Sn-116

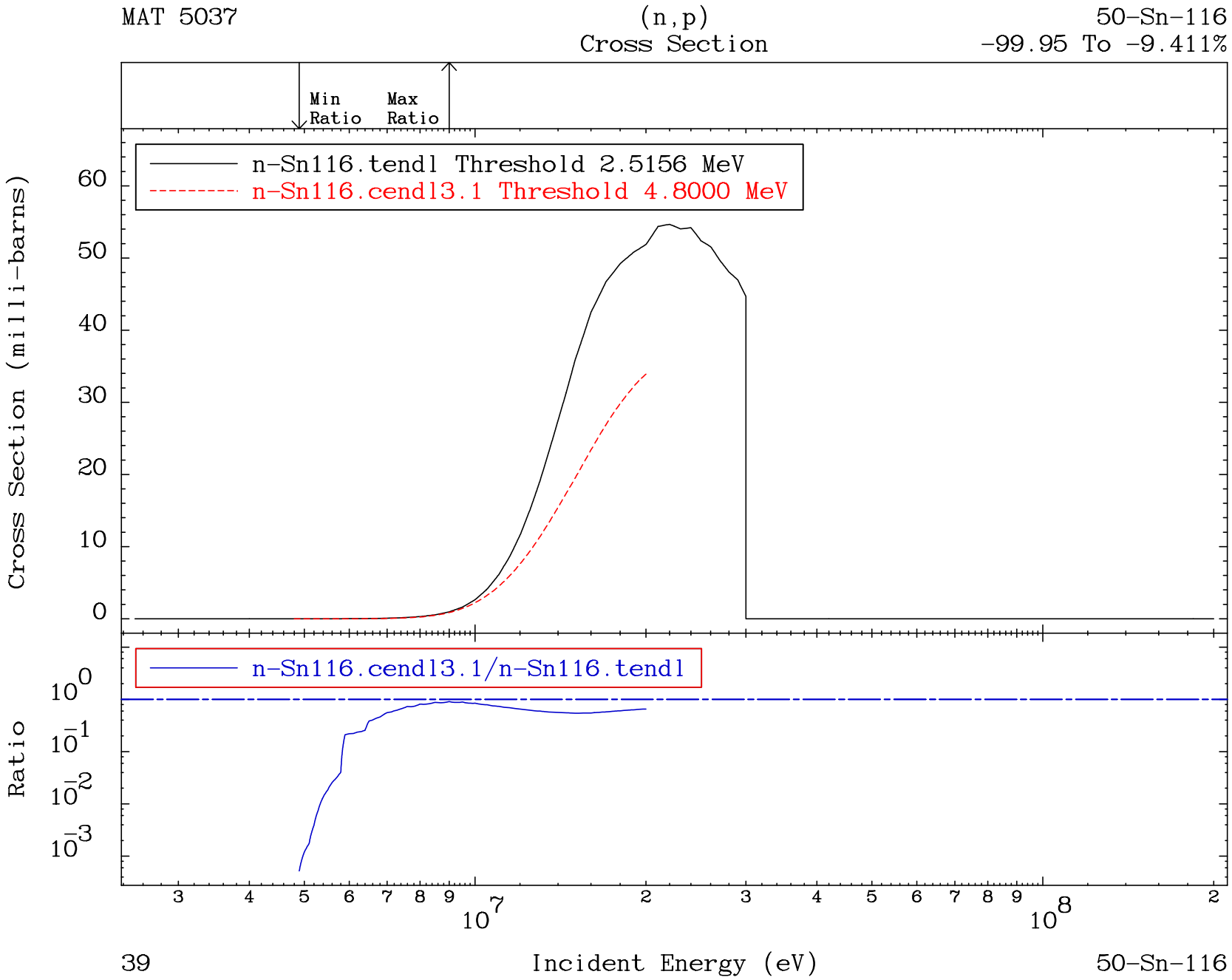

MAT 5037
MT= 77 (n,n') Level
Cross Section
50-Sn-116
-59.02 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 3.2074 MeV
n-Sn116.cendl3.1 Threshold 3.2074 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^6
10^3
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
50-Sn-116

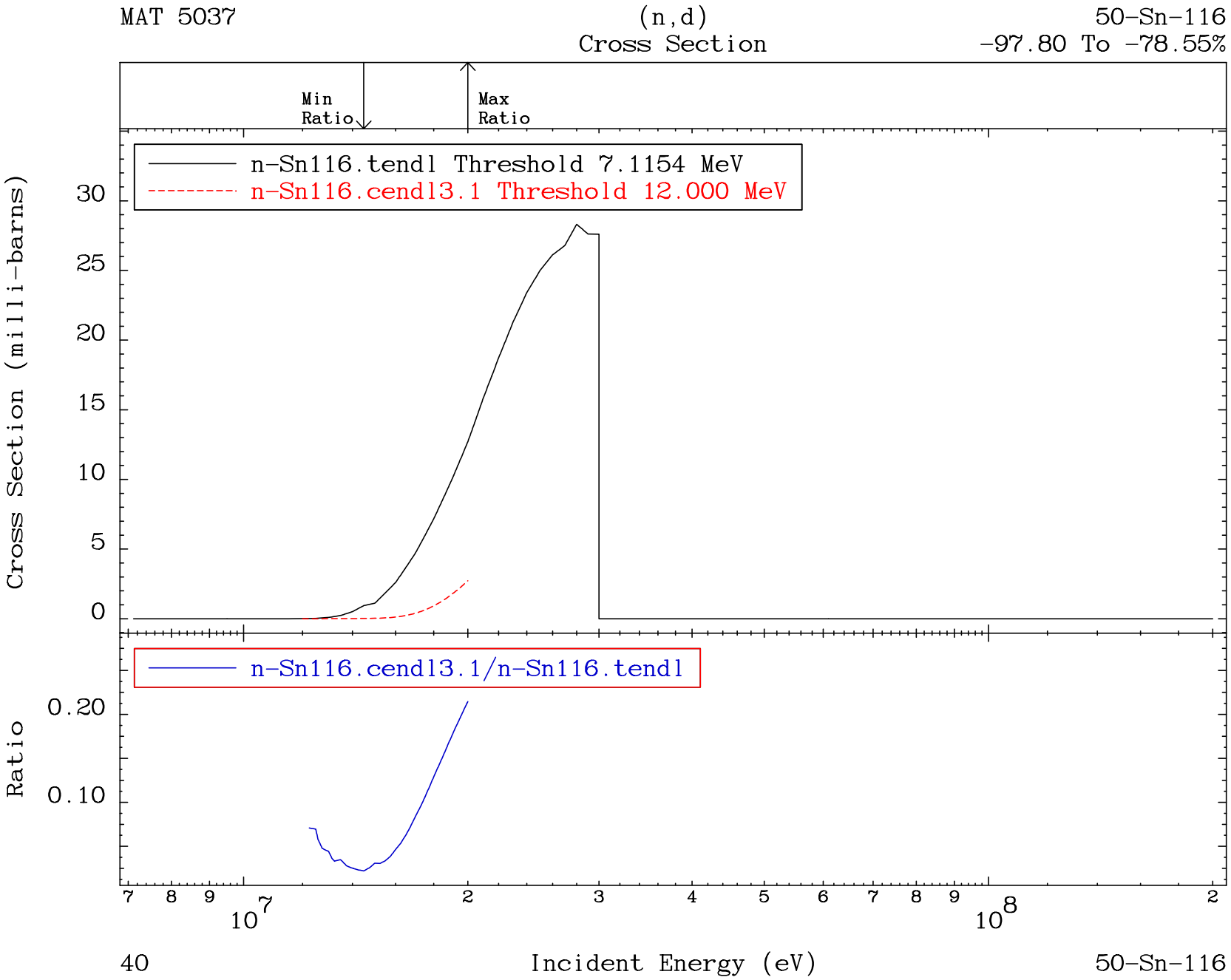

MAT 5037
MT= 78 (n,n') Level
Cross Section
50-Sn-116
-72.57 To 363.5 %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 3.2117 MeV
n-Sn116.cendl3.1 Threshold 3.2117 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
6
4
6
4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
50-Sn-116

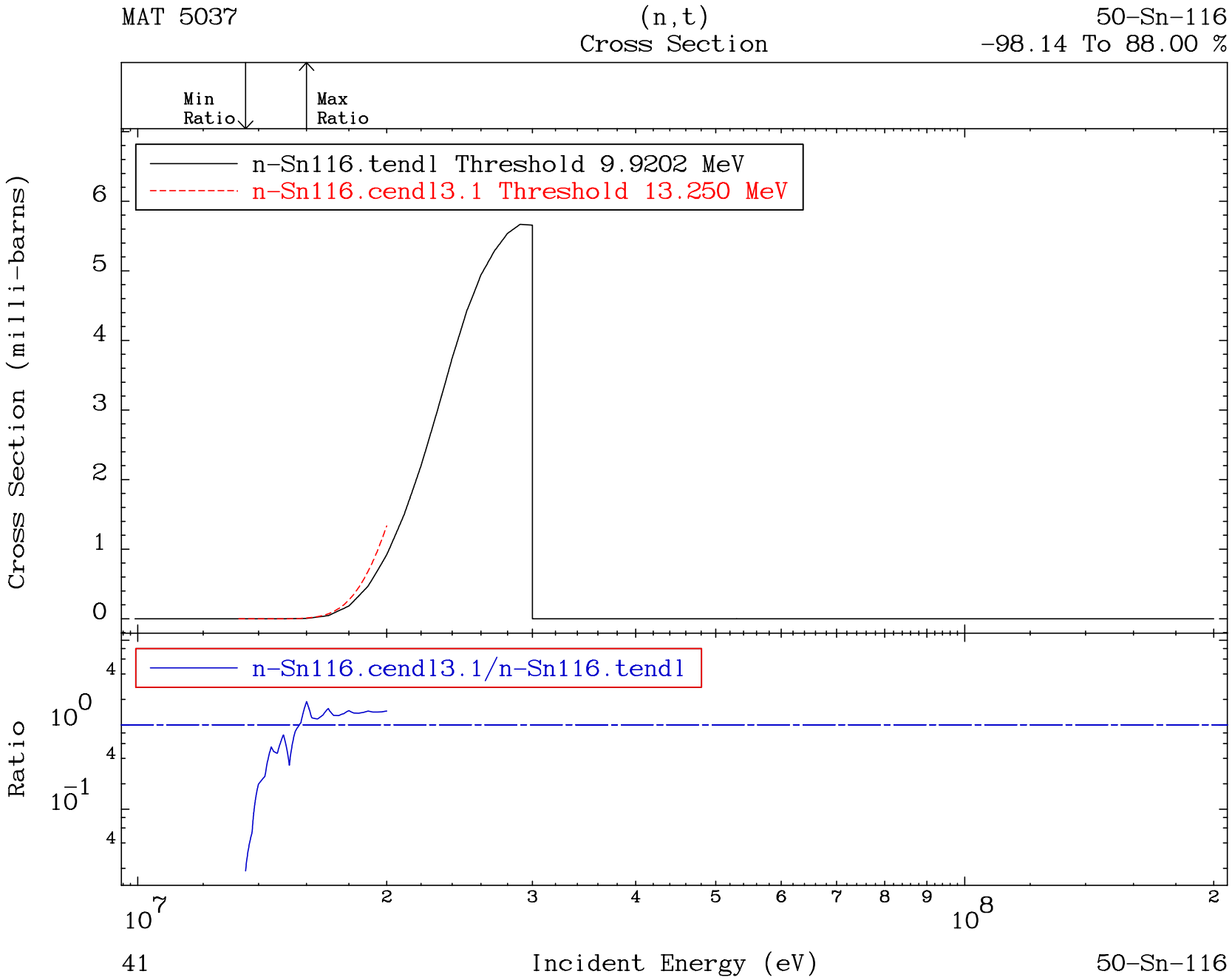

MAT 5037
MT= 79 (n,n') Level
Cross Section
50-Sn-116
-95.31 To 4411. %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 3.2221 MeV
n-Sn116.cendl3.1 Threshold 3.2221 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^2
10^1
10^0
10^{-1}
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
50-Sn-116

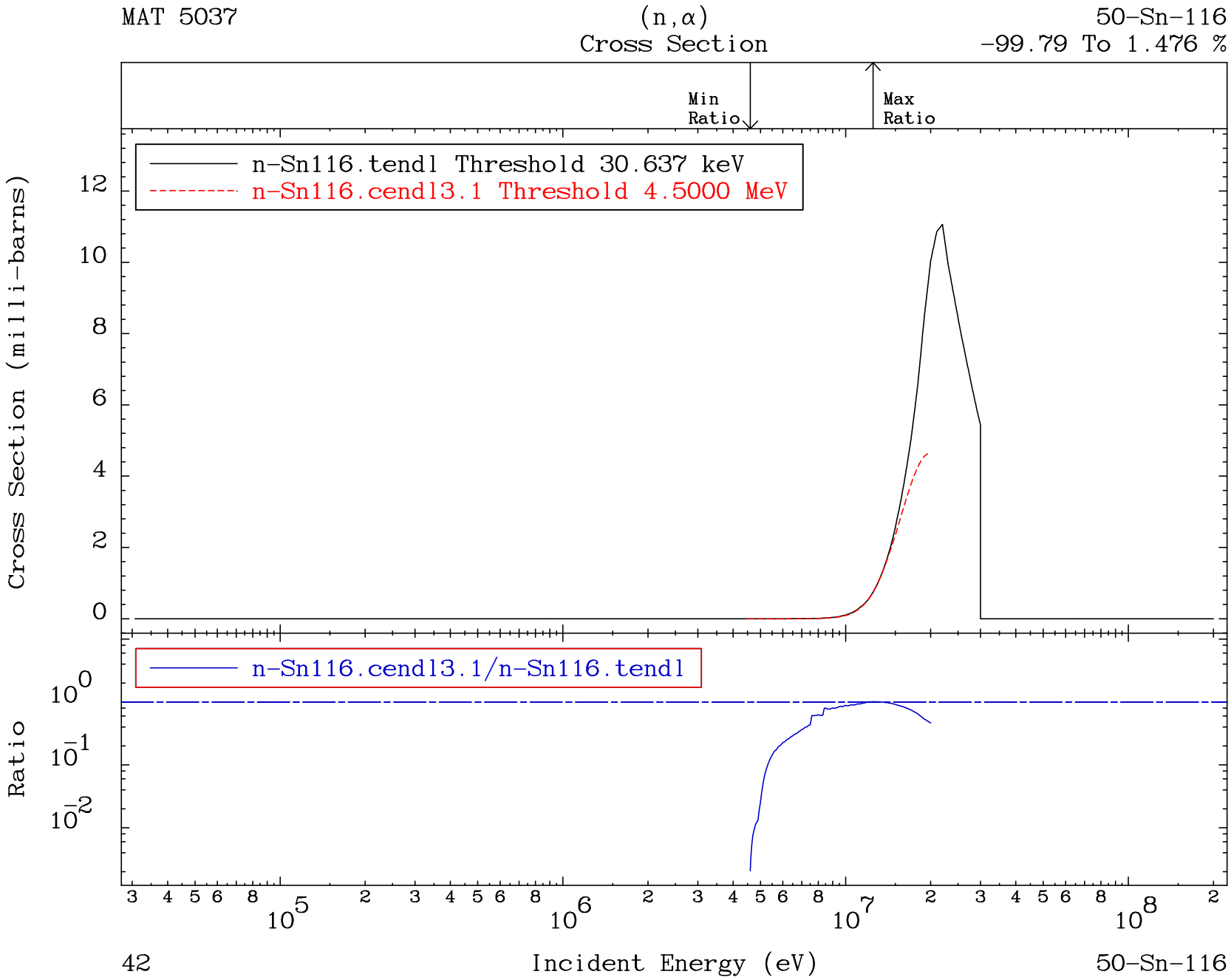

MAT 5037
(n,n') Continuum
Cross Section
50-Sn-116
-47.63 To 34.87 %
Max
Ratio
Min
Ratio
n-Sn116.tendl Threshold 3.2221 MeV
n-Sn116.cendl3.1 Threshold 4.1000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
1.6
1.2
0.8
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
50-Sn-116

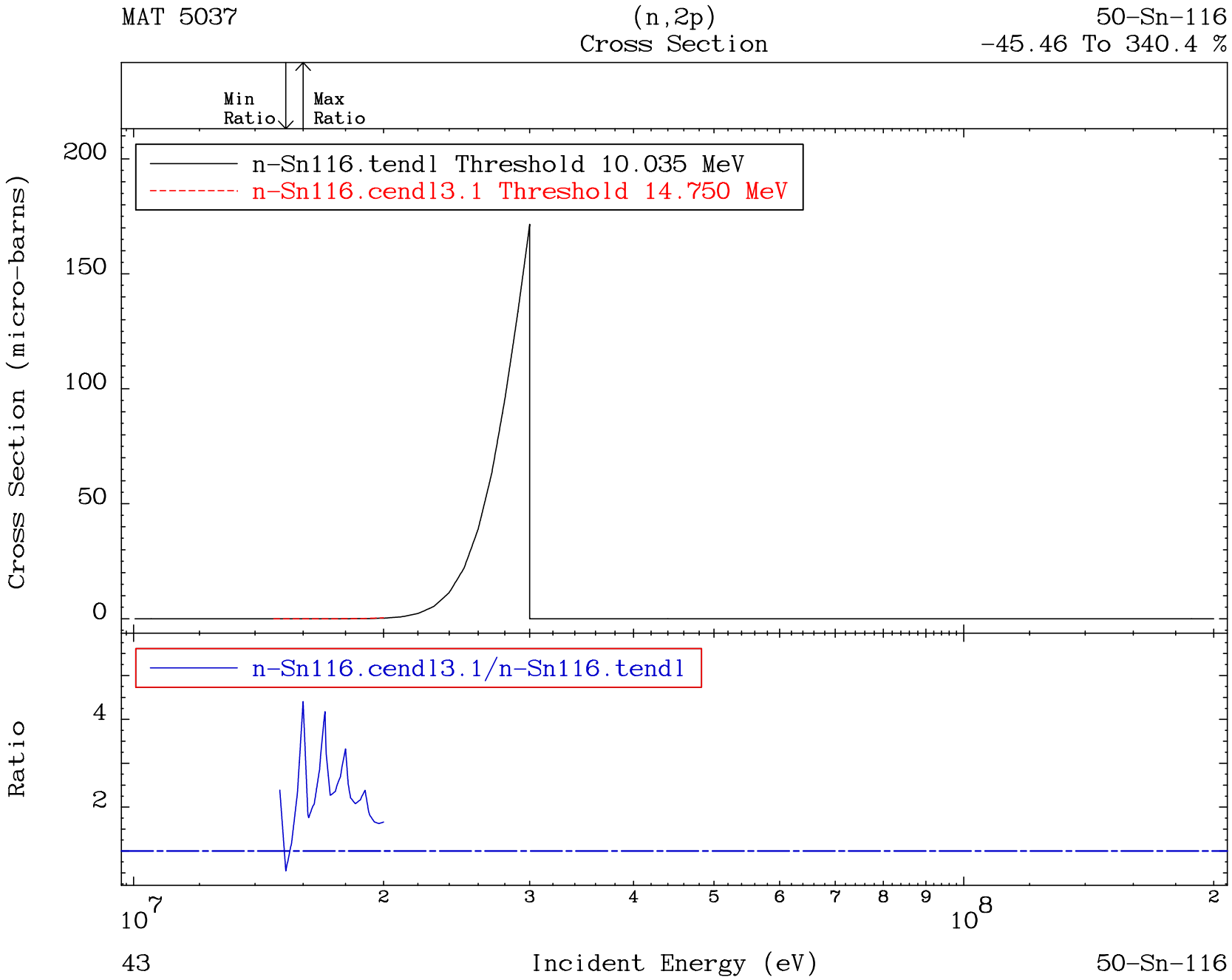

MAT 5037
(n,γ)
Cross Section
50-Sn-116
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl
n-Sn116.cendl3.1
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
38
50-Sn-116

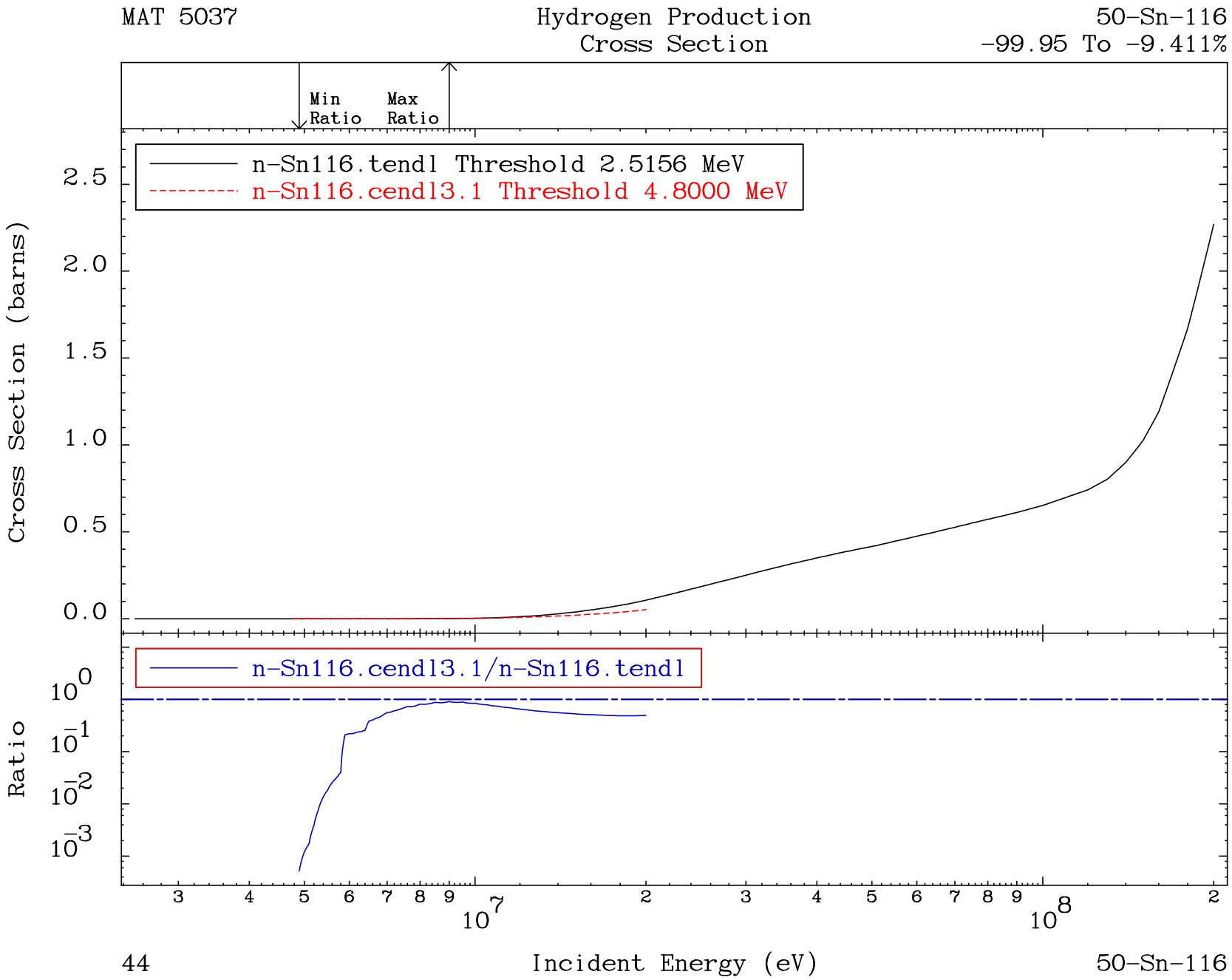

MAT 5037
(n,p)
Cross Section
50-Sn-116
-99.95 To -9.411%
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 2.5156 MeV
n-Sn116.cendl3.1 Threshold 4.8000 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-1
10^-2
10^-3
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
50-Sn-116

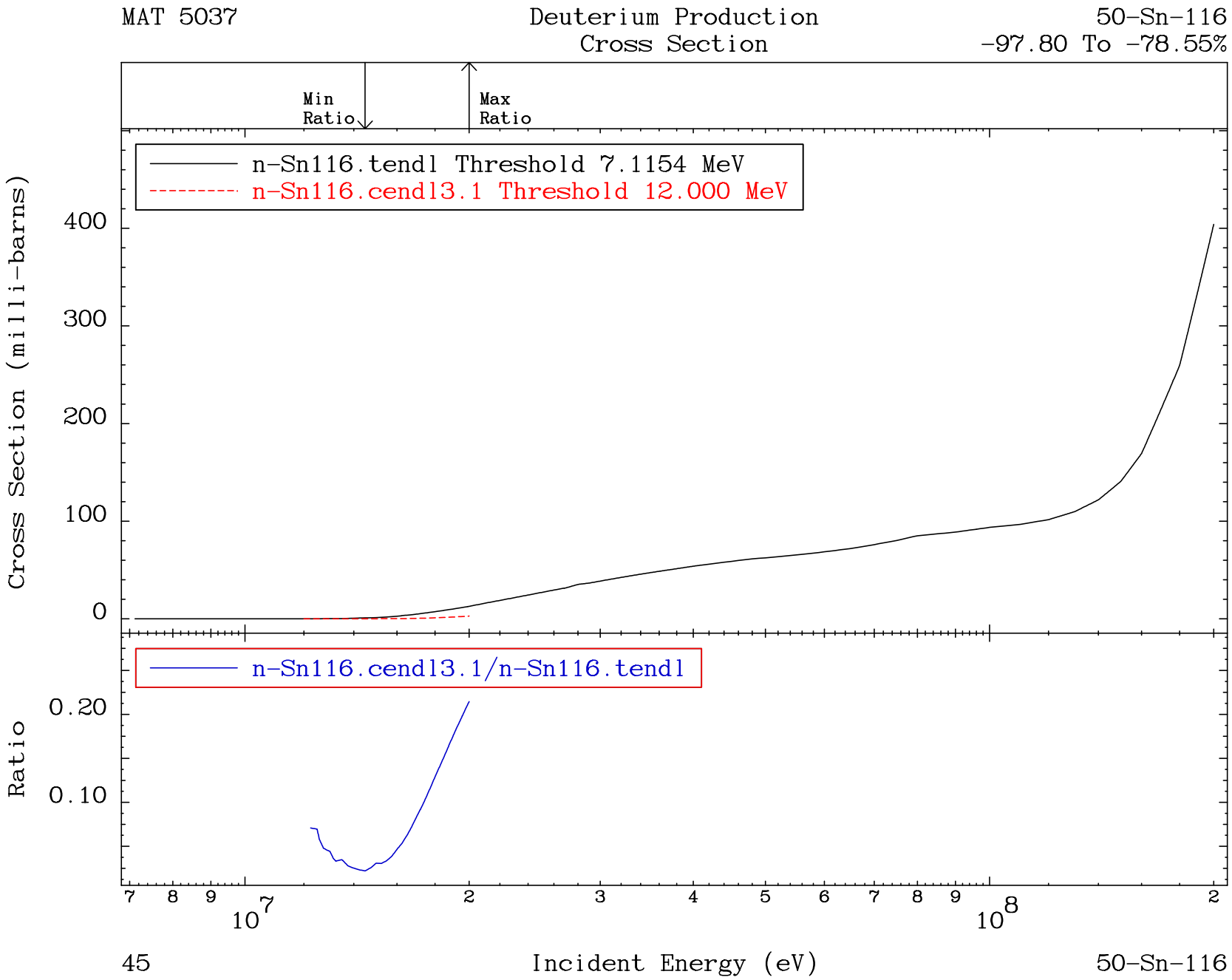

MAT 5037
(n,d)
Cross Section
50-Sn-116
-97.80 To -78.55%
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 7.1154 MeV
n-Sn116.cendl3.1 Threshold 12.000 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
0.20
0.10
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
50-Sn-116

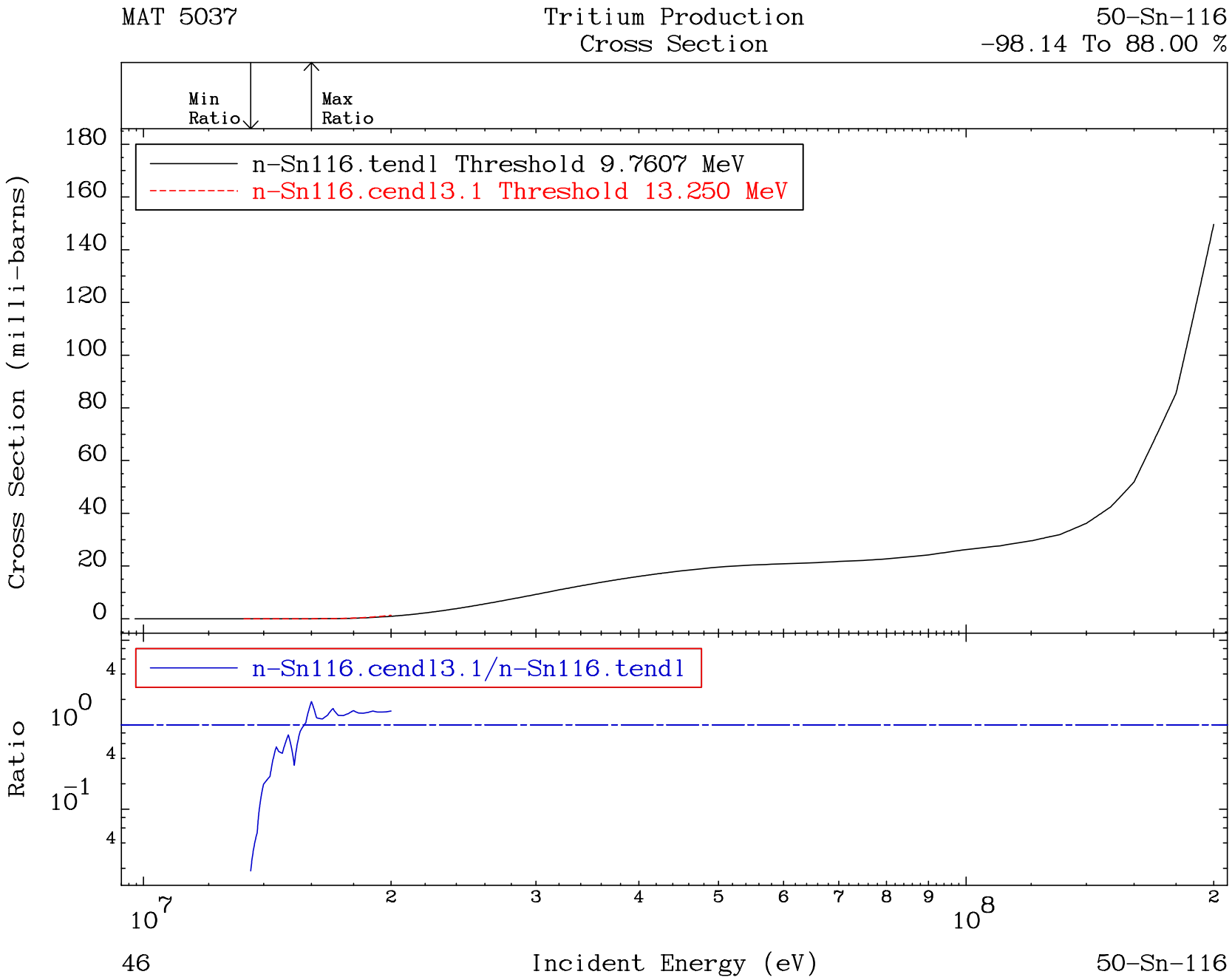

MAT 5037
(n,t)
Cross Section
50-Sn-116
-98.14 To 88.00 %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 9.9202 MeV
n-Sn116.cendl3.1 Threshold 13.250 MeV
Cross Section (milli-barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
41
50-Sn-116

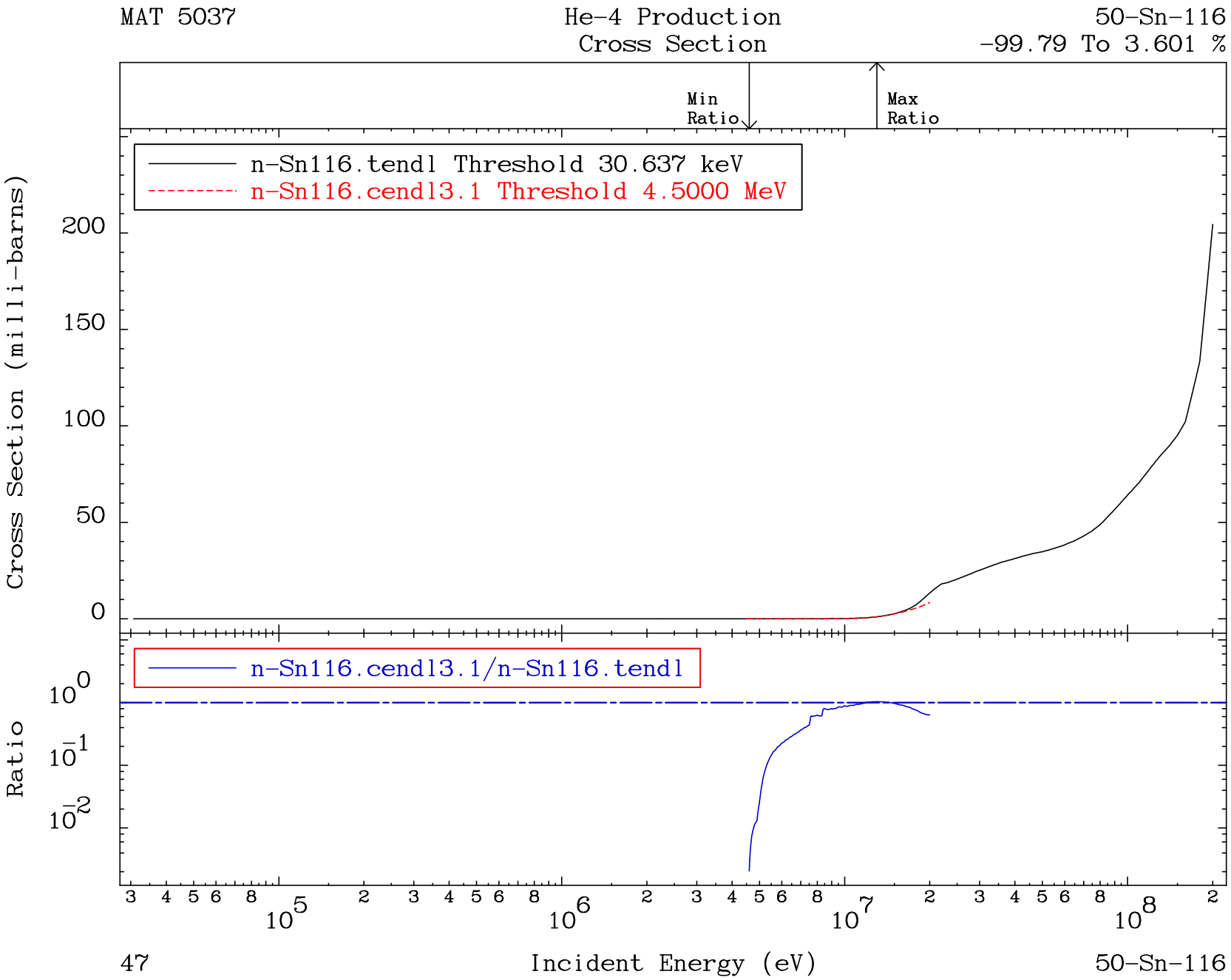

MAT 5037
(n,α)
Cross Section
50-Sn-116
-99.79 To 1.476 %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 30.637 keV
n-Sn116.cendl3.1 Threshold 4.5000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-1
10^-2
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
42
Incident Energy (eV)
50-Sn-116

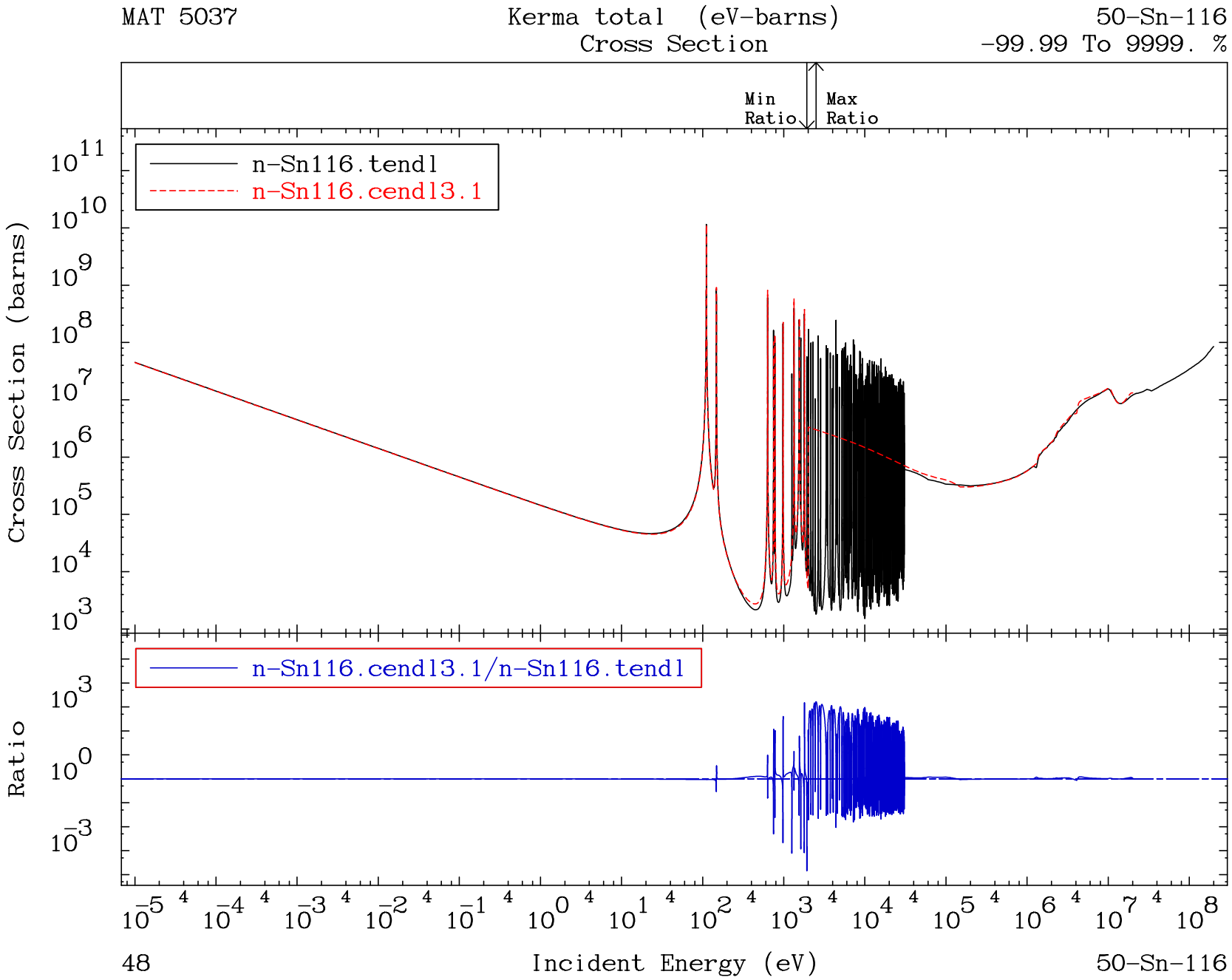

MAT 5037
(n,2p)
Cross Section
50-Sn-116
-45.46 To 340.4 %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 10.035 MeV
n-Sn116.cendl3.1 Threshold 14.750 MeV
Cross Section (micro-barns)
200
150
100
50
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
4
2
10^7
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
50-Sn-116

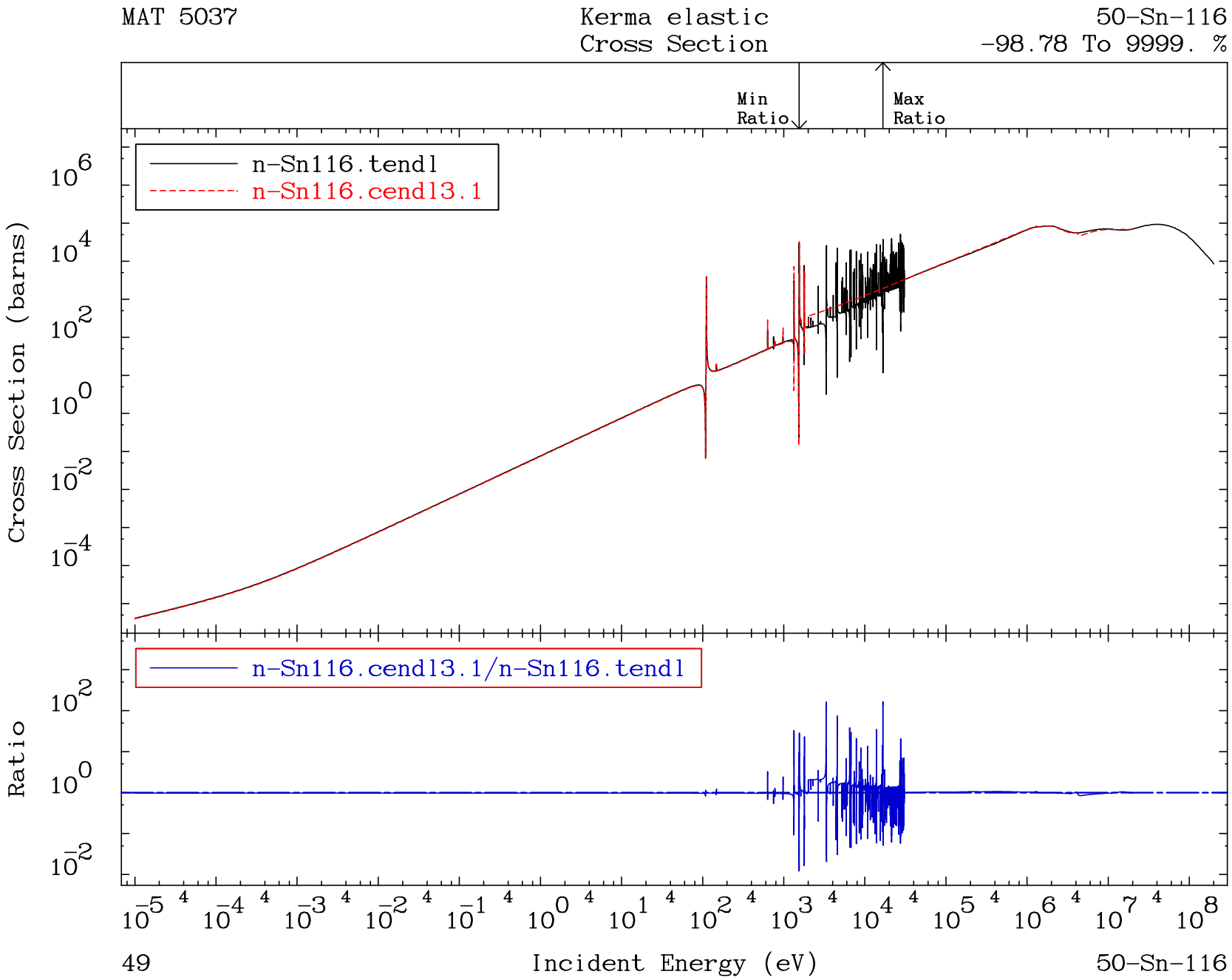

MAT 5037
Hydrogen Production
Cross Section
50-Sn-116
-99.95 To -9.411%
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 2.5156 MeV
n-Sn116.cendl3.1 Threshold 4.8000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-1
10^-2
10^-3
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
50-Sn-116

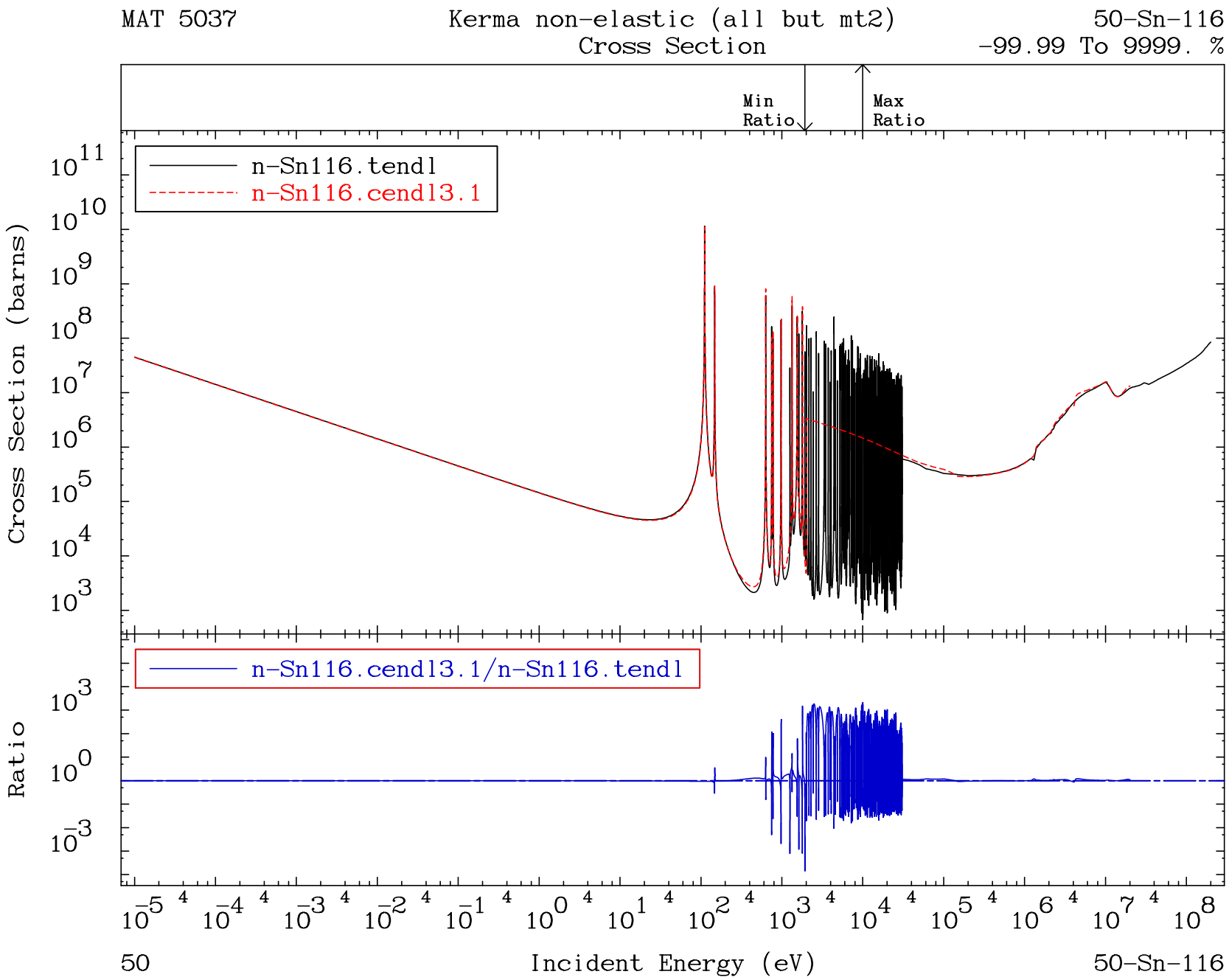

MAT 5037
Deuterium Production
Cross Section
50-Sn-116
-97.80 To -78.55%
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 7.1154 MeV
n-Sn116.cendl3.1 Threshold 12.000 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
0.20
0.10
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
50-Sn-116

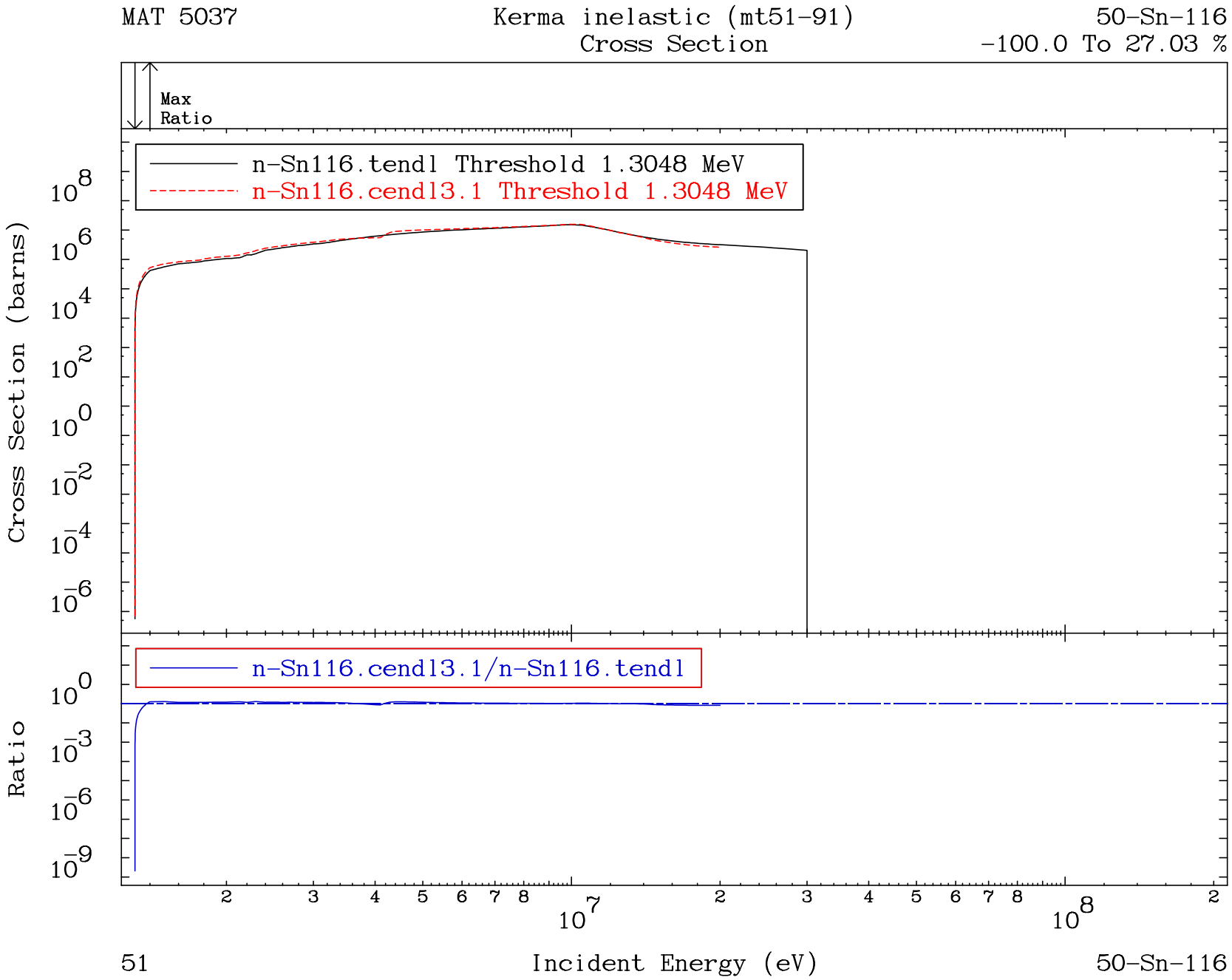

MAT 5037
Tritium Production
Cross Section
50-Sn-116
-98.14 To 88.00 %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 9.7607 MeV
n-Sn116.cendl3.1 Threshold 13.250 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
4
10^{0}
4
10^{-1}
4
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
46
Incident Energy (eV)
50-Sn-116

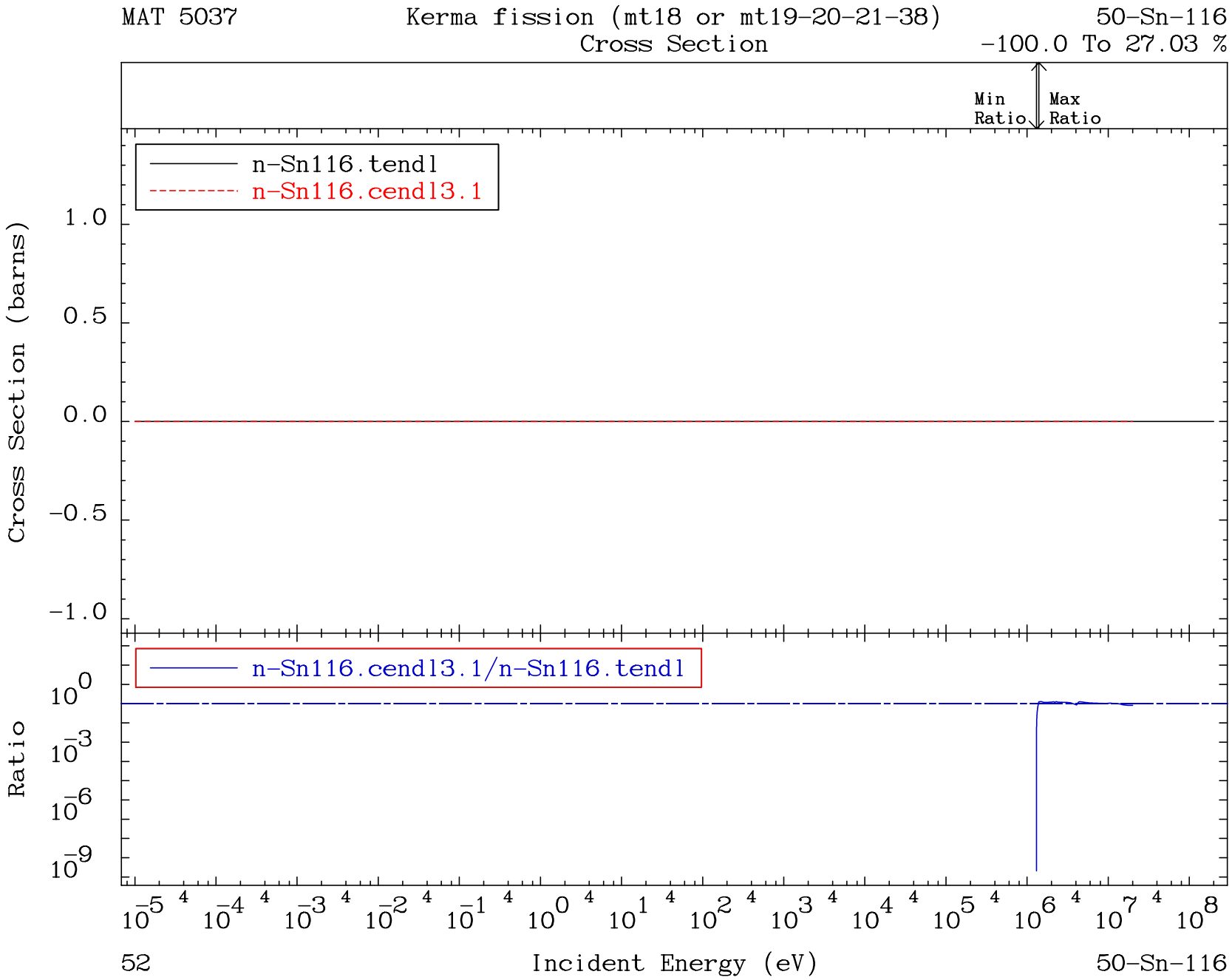

MAT 5037
He-4 Production
Cross Section
50-Sn-116
-99.79 To 3.601 %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 30.637 keV
n-Sn116.cendl3.1 Threshold 4.5000 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-1
10^-2
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
47
Incident Energy (eV)
50-Sn-116

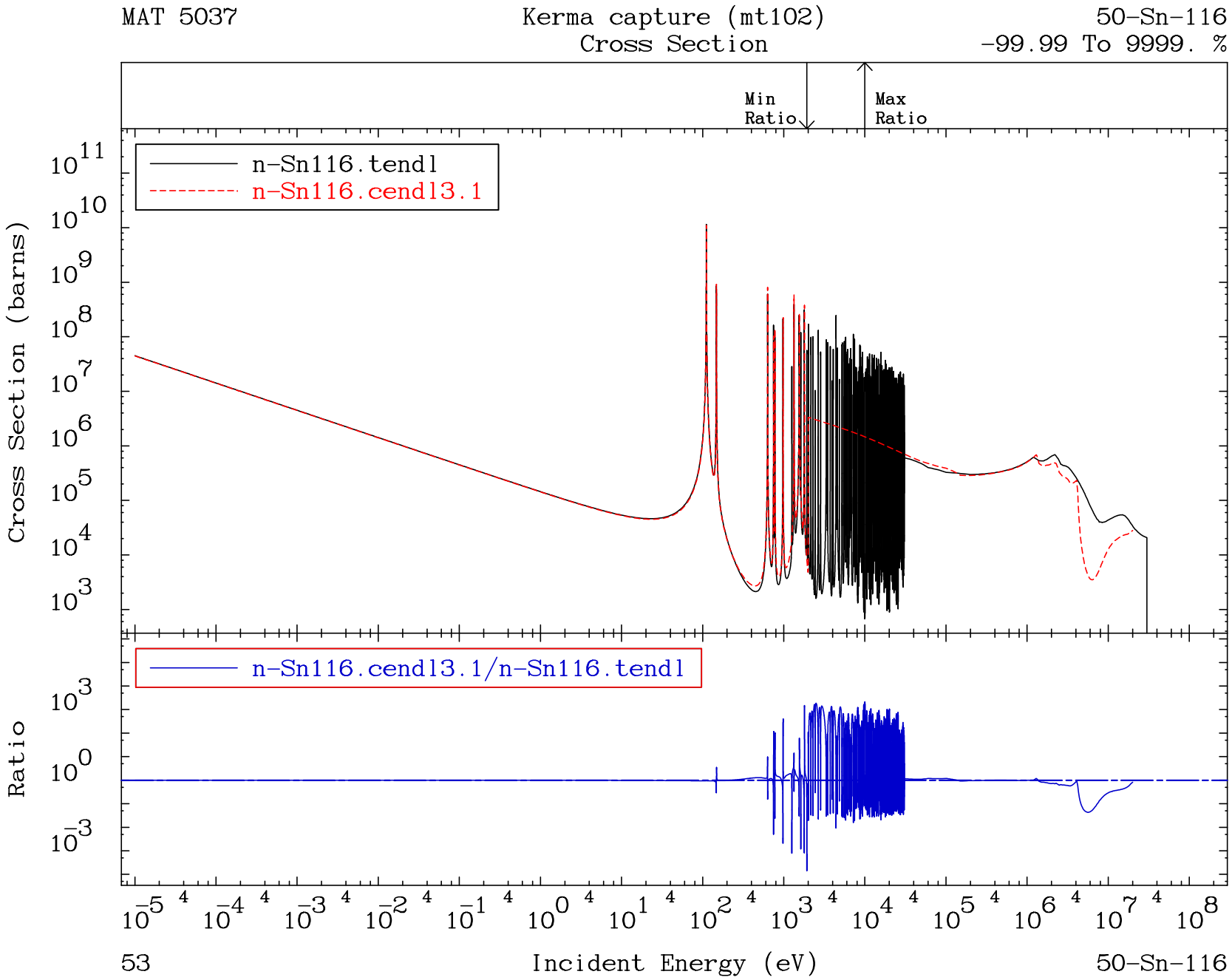

MAT 5037
Kerma total (eV-barns)
Cross Section
50-Sn-116
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl
n-Sn116.cendl3.1
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
48
50-Sn-116

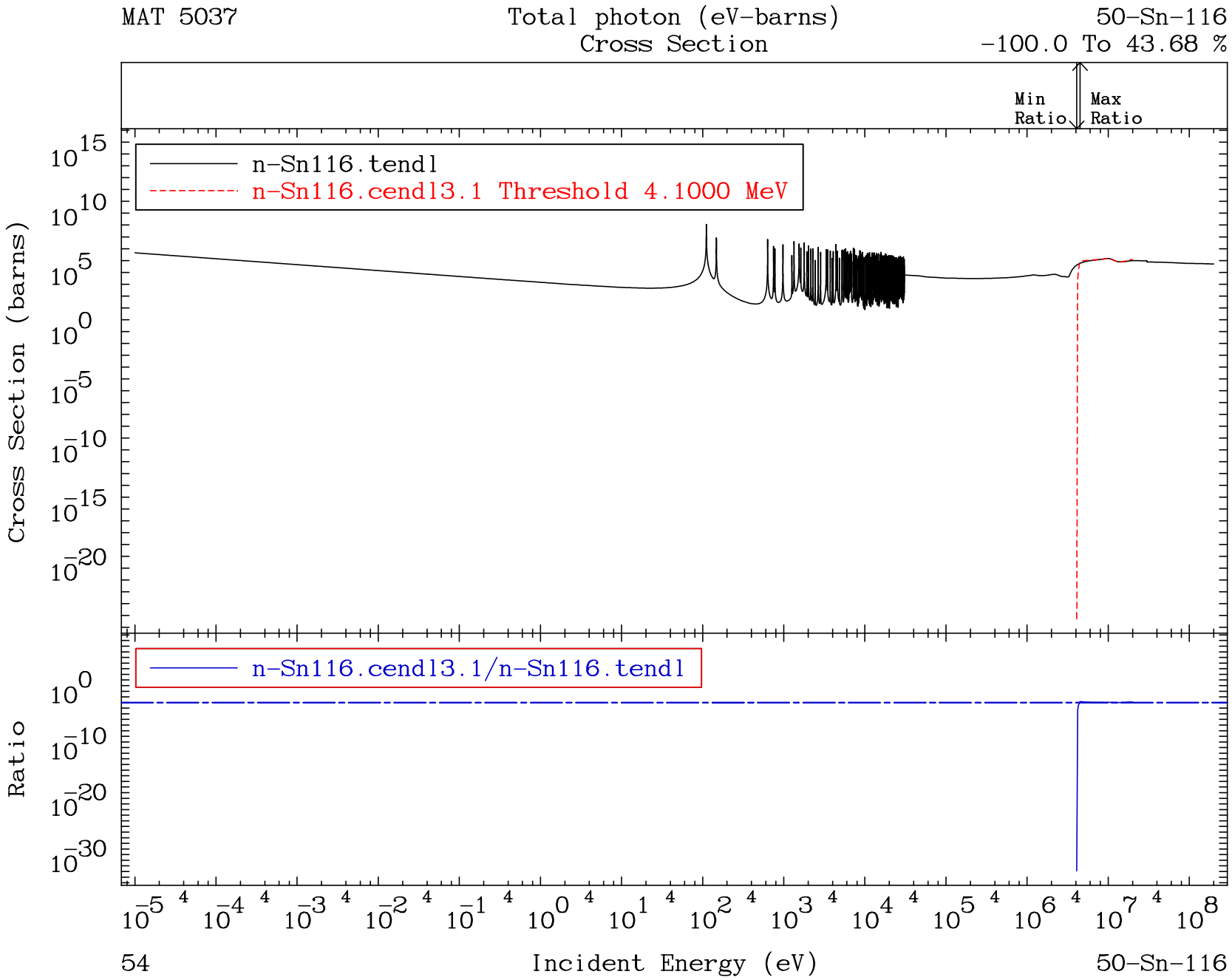

MAT 5037
Kerma elastic
Cross Section
50-Sn-116
-98.78 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl
n-Sn116.cendl3.1
Cross Section (barns)
Ratio
n-Sn116.cendl3.1/n-Sn116.tendl
Incident Energy (eV)
49
50-Sn-116

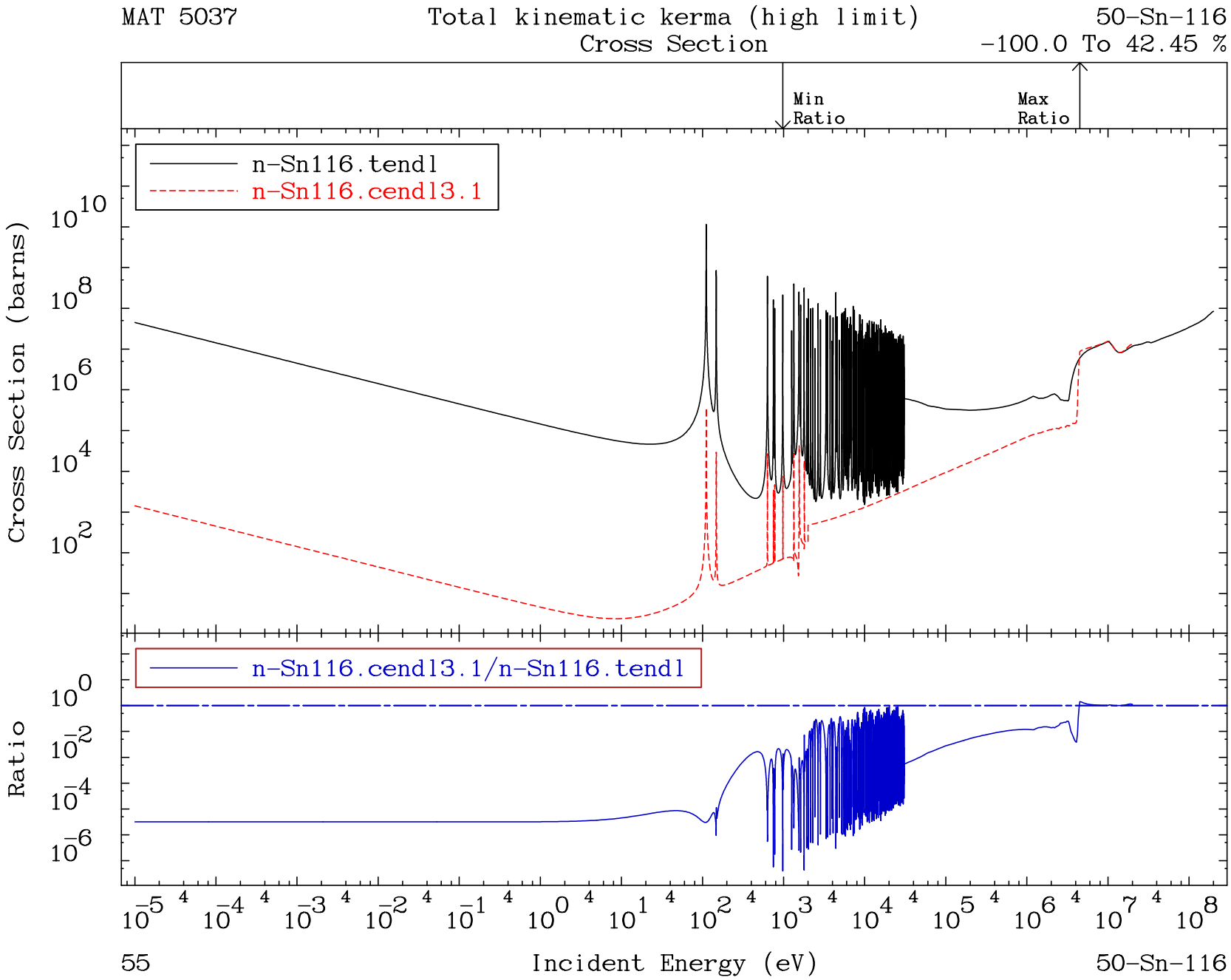

MAT 5037
Kerma non-elastic (all but mt2)
Cross Section
50-Sn-116
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl
n-Sn116.cendl3.1
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
50
50-Sn-116

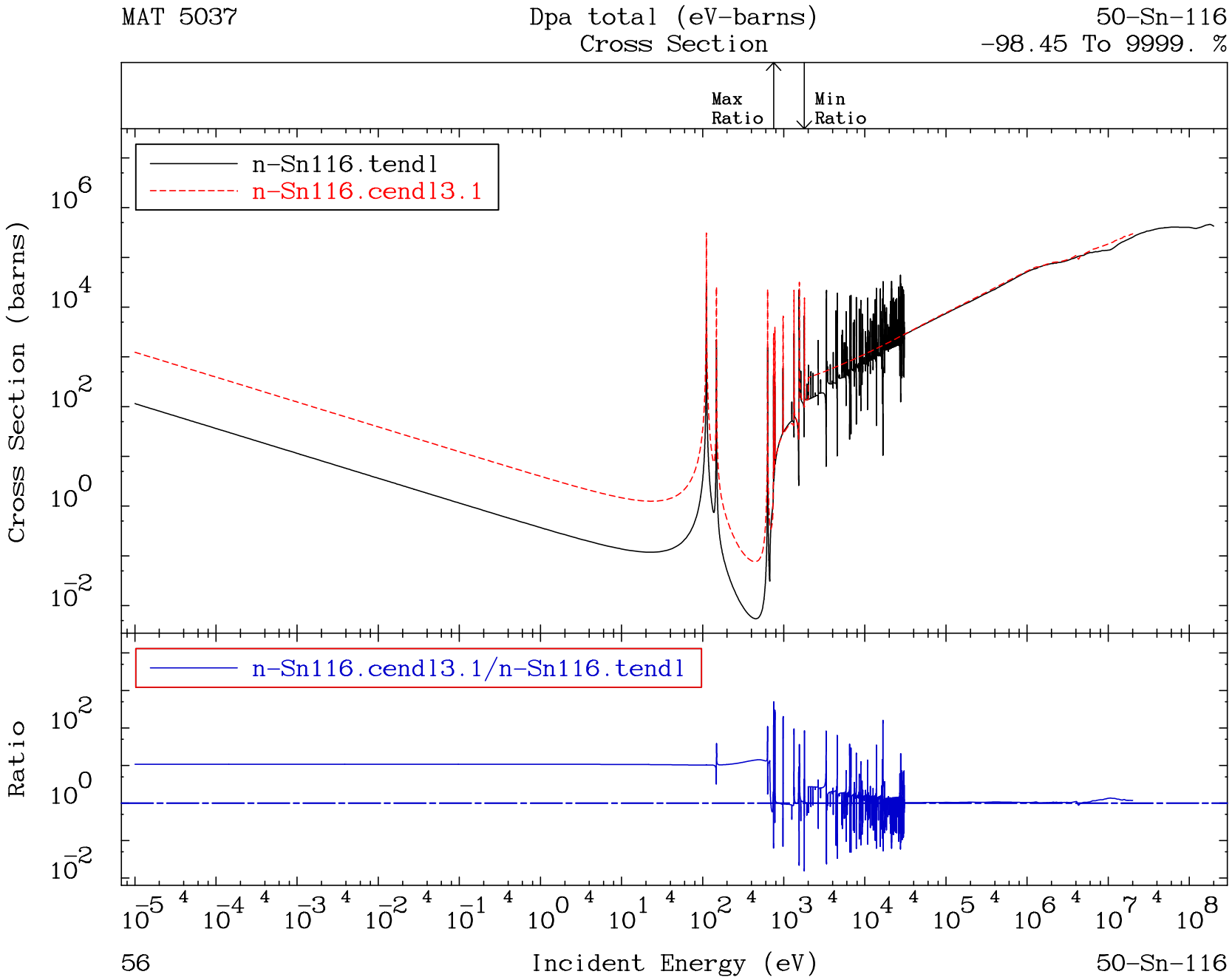

MAT 5037
Kerma inelastic (mt51-91)
Cross Section
50-Sn-116
-100.0 To 27.03 %
Max
Ratio
n-Sn116.tendl Threshold 1.3048 MeV
n-Sn116.cendl3.1 Threshold 1.3048 MeV
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
51
50-Sn-116

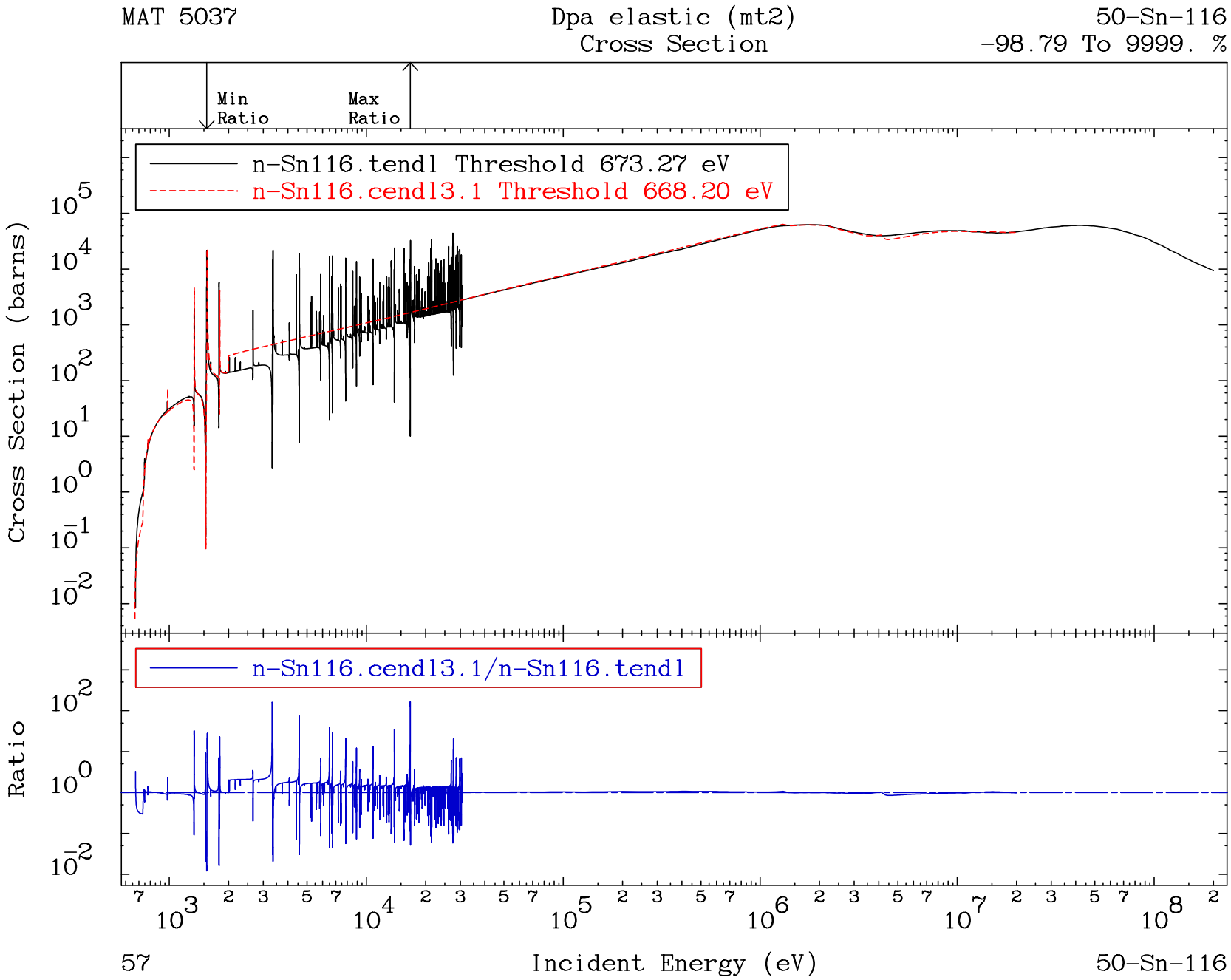

MAT 5037
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
50-Sn-116
-100.0 To 27.03 %
Min Ratio
Max Ratio
n-Sn116.tendl
n-Sn116.cendl3.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
10^0
10^-3
10^-6
10^-9
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
52
Incident Energy (eV)
50-Sn-116

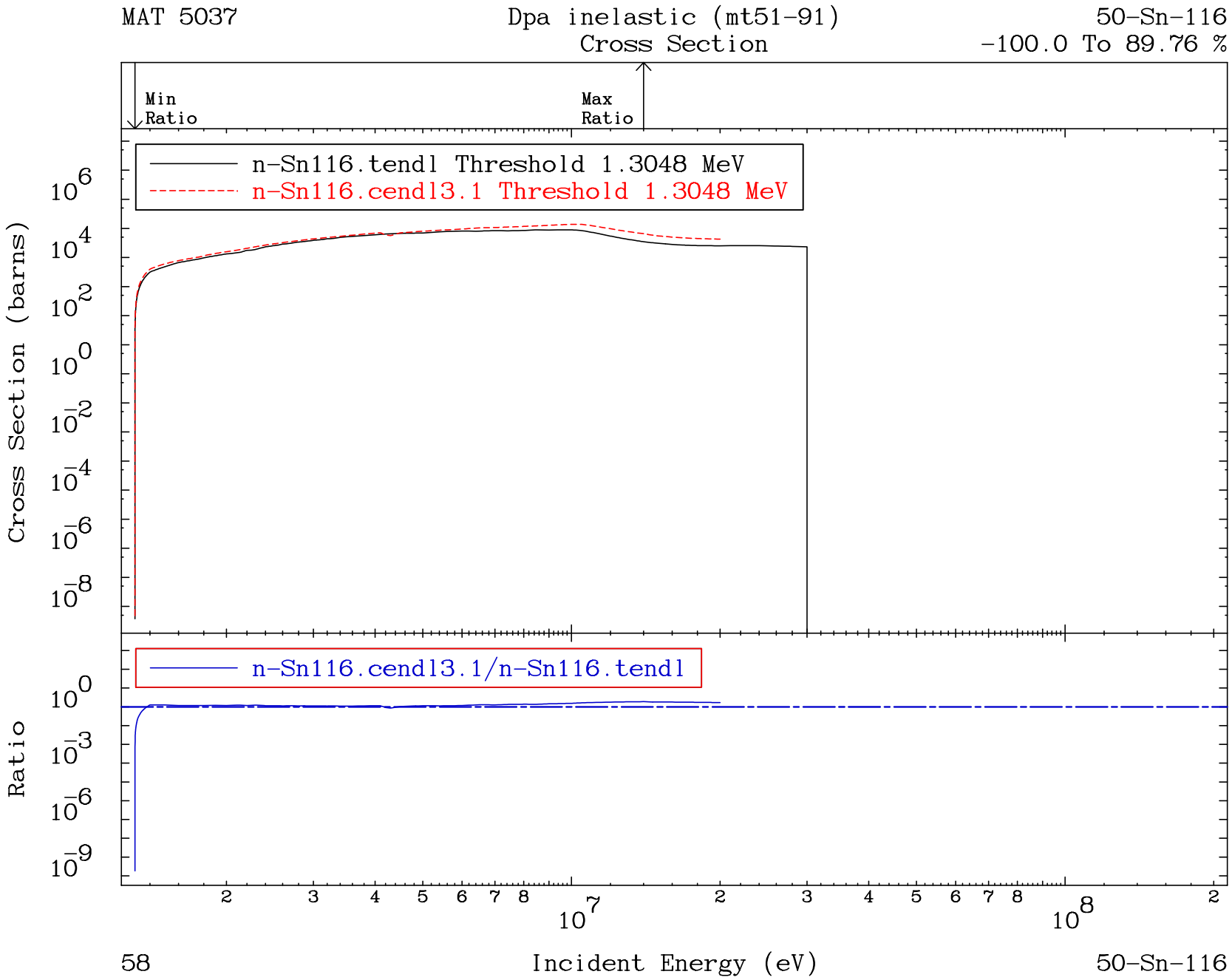

MAT 5037
Kerma capture (mt102)
Cross Section
50-Sn-116
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl
n-Sn116.cendl3.1
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
53
50-Sn-116

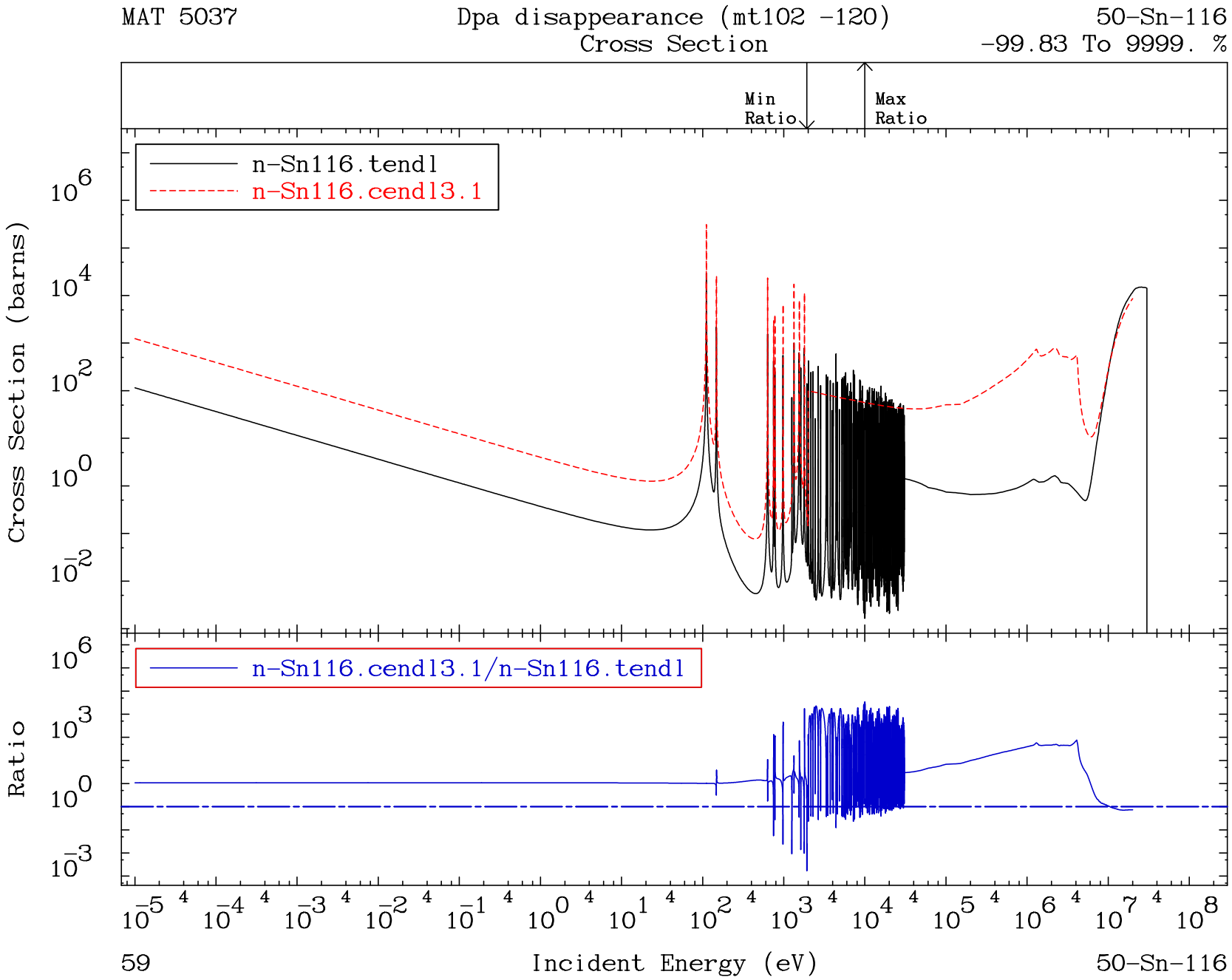

MAT 5037
Total photon (eV-barns)
Cross Section
50-Sn-116
-100.0 To 43.68 %
Min Ratio
Max Ratio
n-Sn116.tendl
n-Sn116.cendl3.1 Threshold 4.1000 MeV
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
54
50-Sn-116


MAT 5037
Total kinematic kerma (high limit)
Cross Section
50-Sn-116
-100.0 To 42.45 %
Min Ratio
Max Ratio
n-Sn116.tendl
n-Sn116.cendl3.1
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
55
50-Sn-116


MAT 5037
Dpa total (eV-barns)
Cross Section
50-Sn-116
-98.45 To 9999. %
Max Ratio
Min Ratio
n-Sn116.tendl
n-Sn116.cendl3.1
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
56
50-Sn-116


MAT 5037
Dpa elastic (mt2)
Cross Section
50-Sn-116
-98.79 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 673.27 eV
n-Sn116.cendl3.1 Threshold 668.20 eV
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
57
50-Sn-116


MAT 5037
Dpa inelastic (mt51-91)
Cross Section
50-Sn-116
-100.0 To 89.76 %
Min Ratio
Max Ratio
n-Sn116.tendl Threshold 1.3048 MeV
n-Sn116.cendl3.1 Threshold 1.3048 MeV
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
58
50-Sn-116


MAT 5037
Dpa disappearance (mt102 -120)
Cross Section
50-Sn-116
-99.83 To 9999. %
Min Ratio
Max Ratio
n-Sn116.tendl
n-Sn116.cendl3.1
Cross Section (barns)
n-Sn116.cendl3.1/n-Sn116.tendl
Ratio
Incident Energy (eV)
59
50-Sn-116