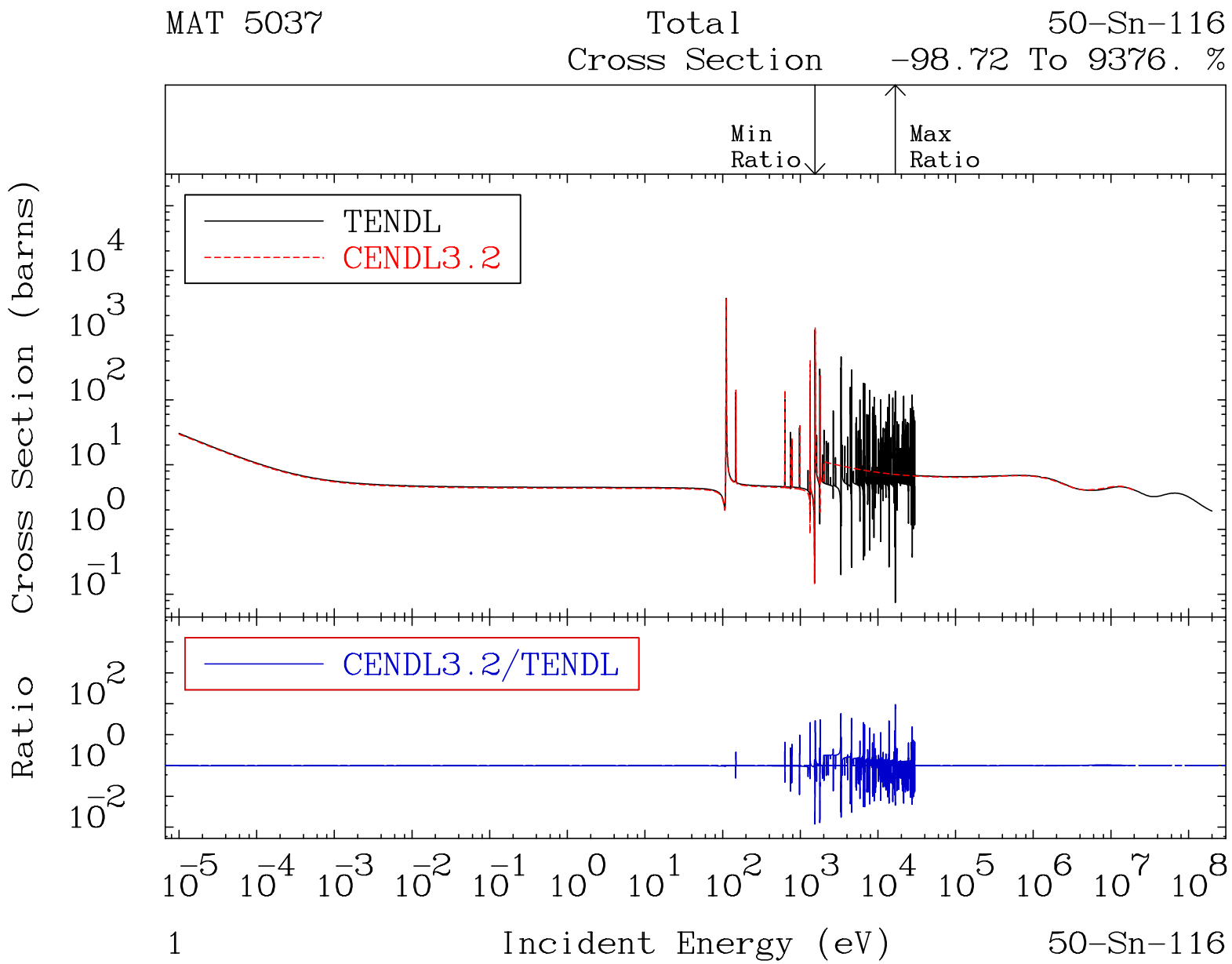
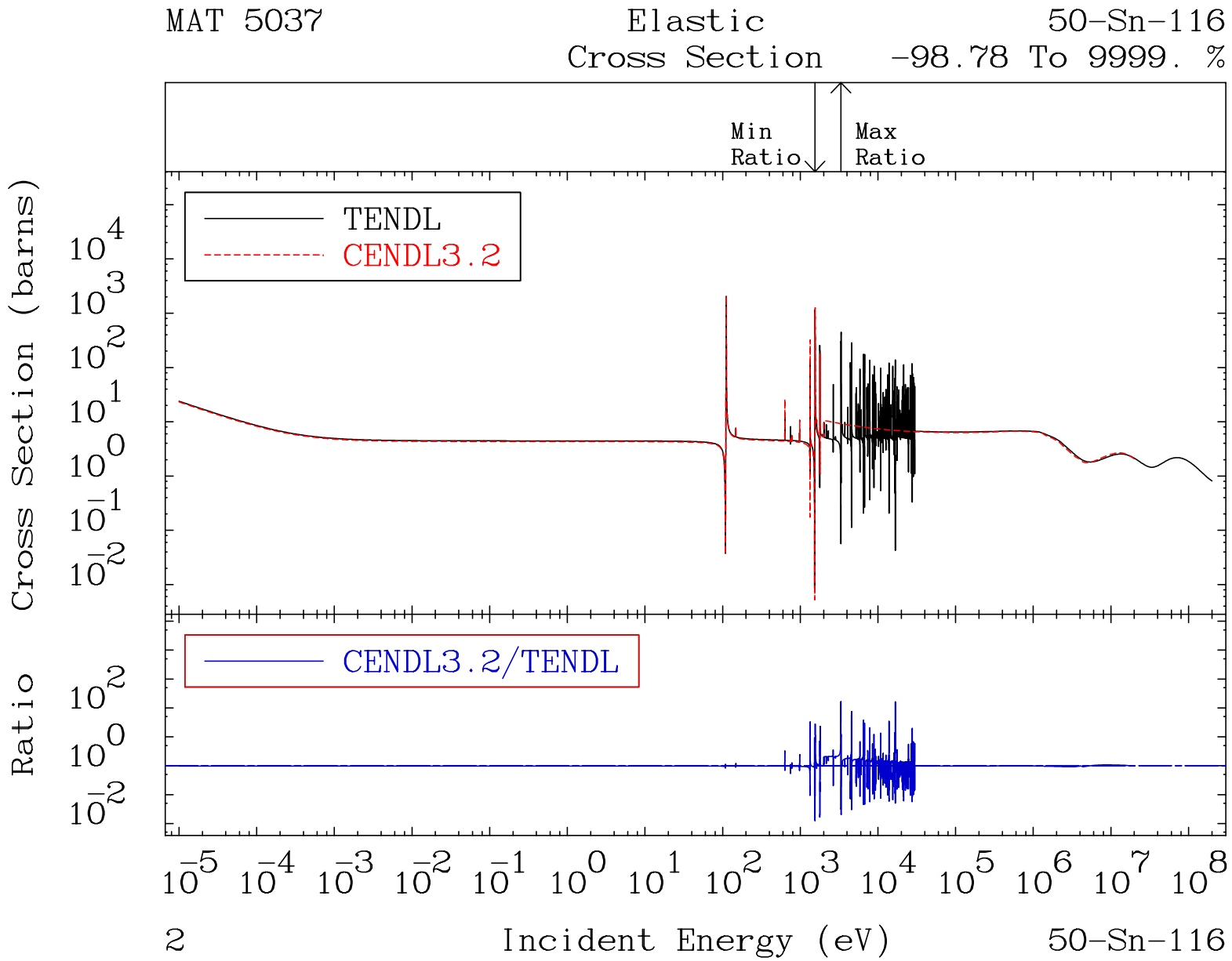
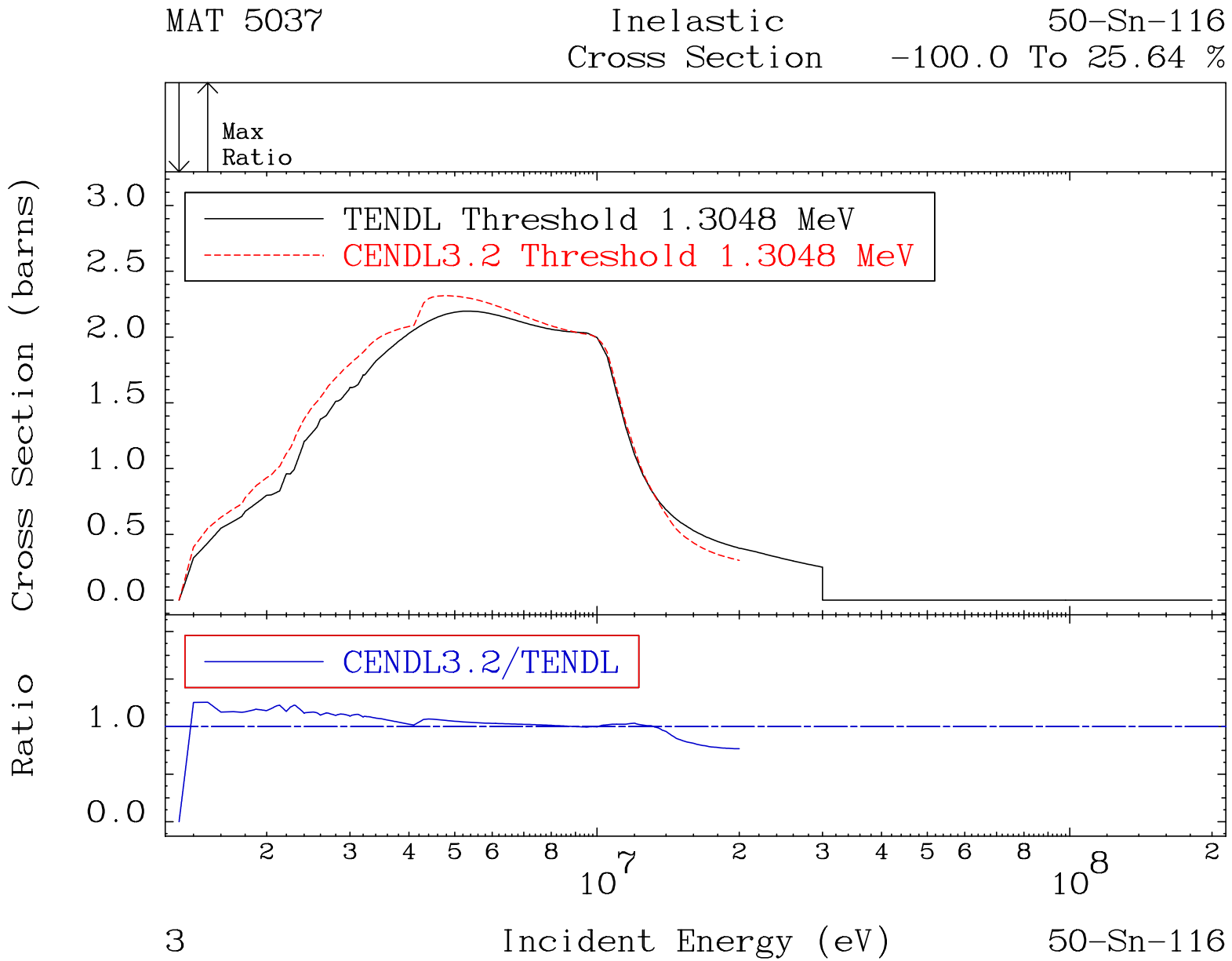
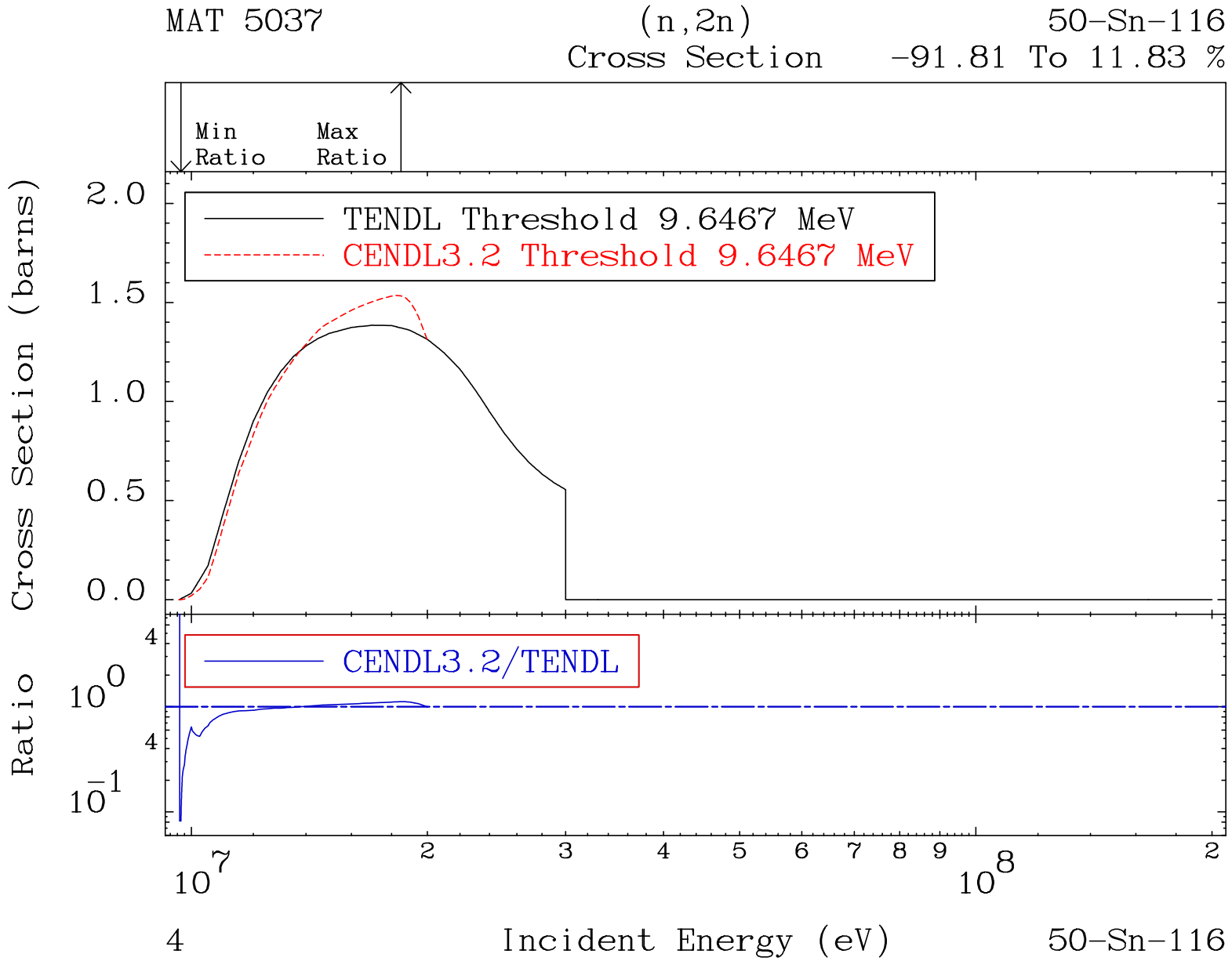
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

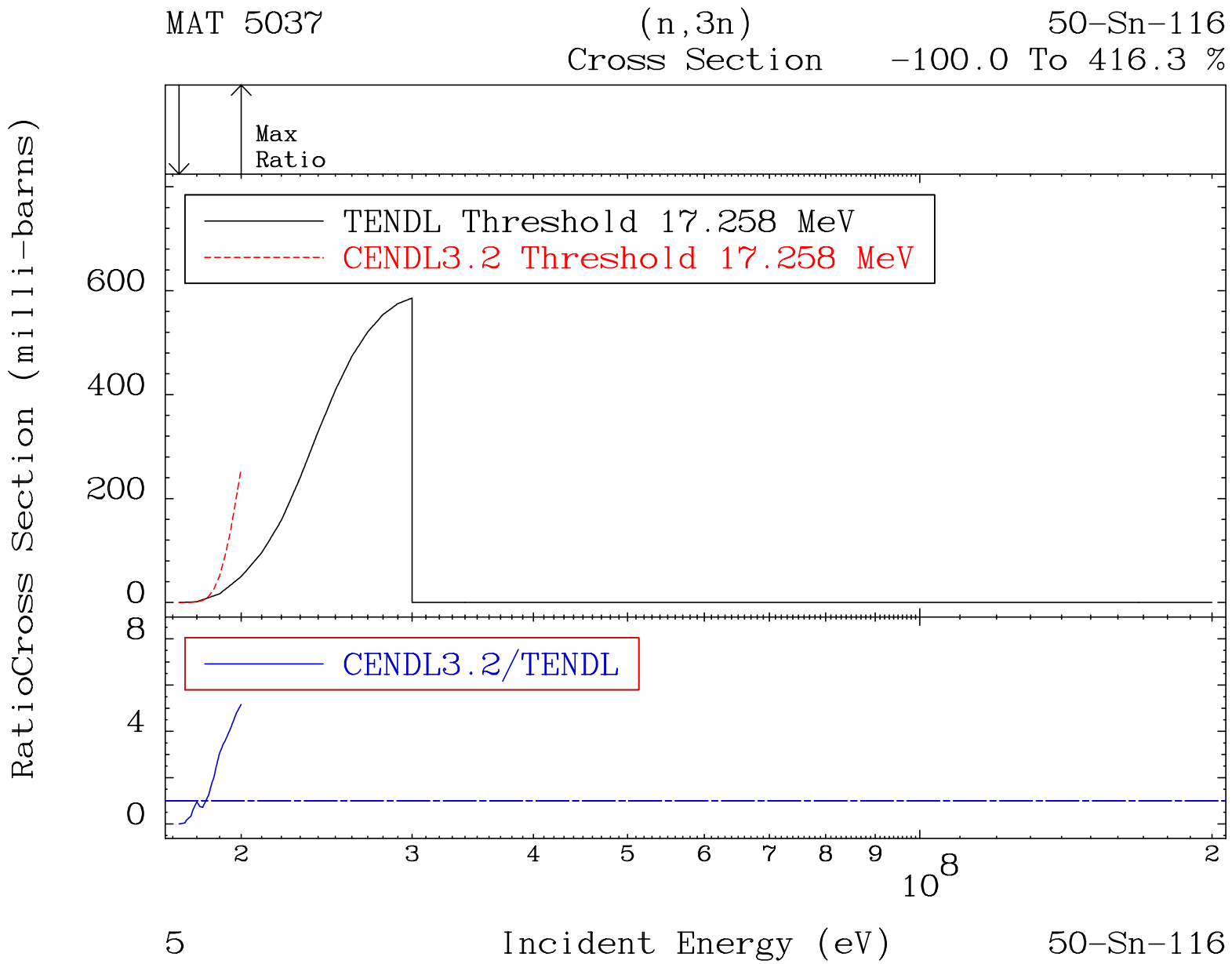
Press Mouse Button to Start

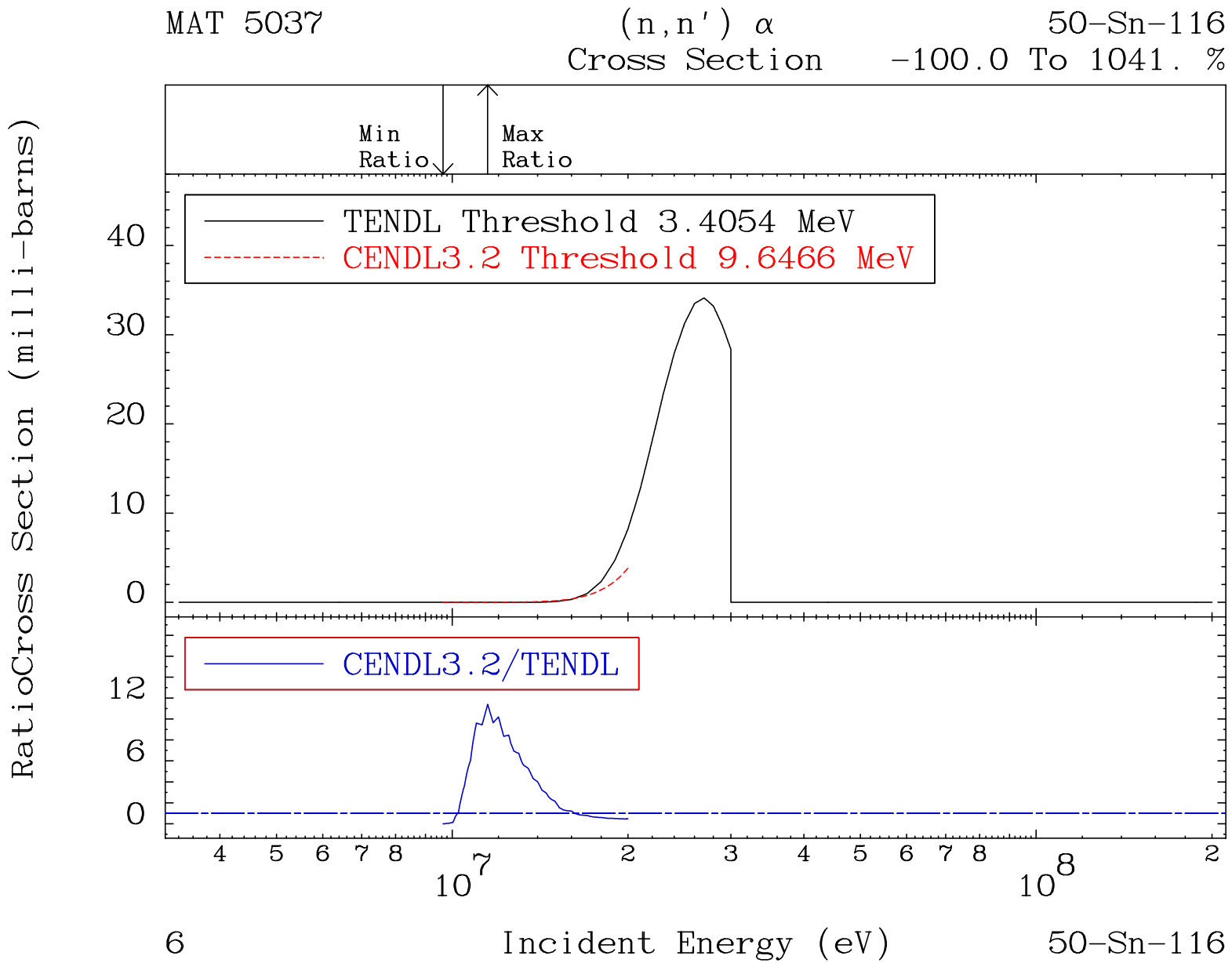

MAT 5037
Total
Cross Section
50-Sn-116
-98.72 To 9376. %
Min
Ratio
Max
Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
1
50-Sn-116

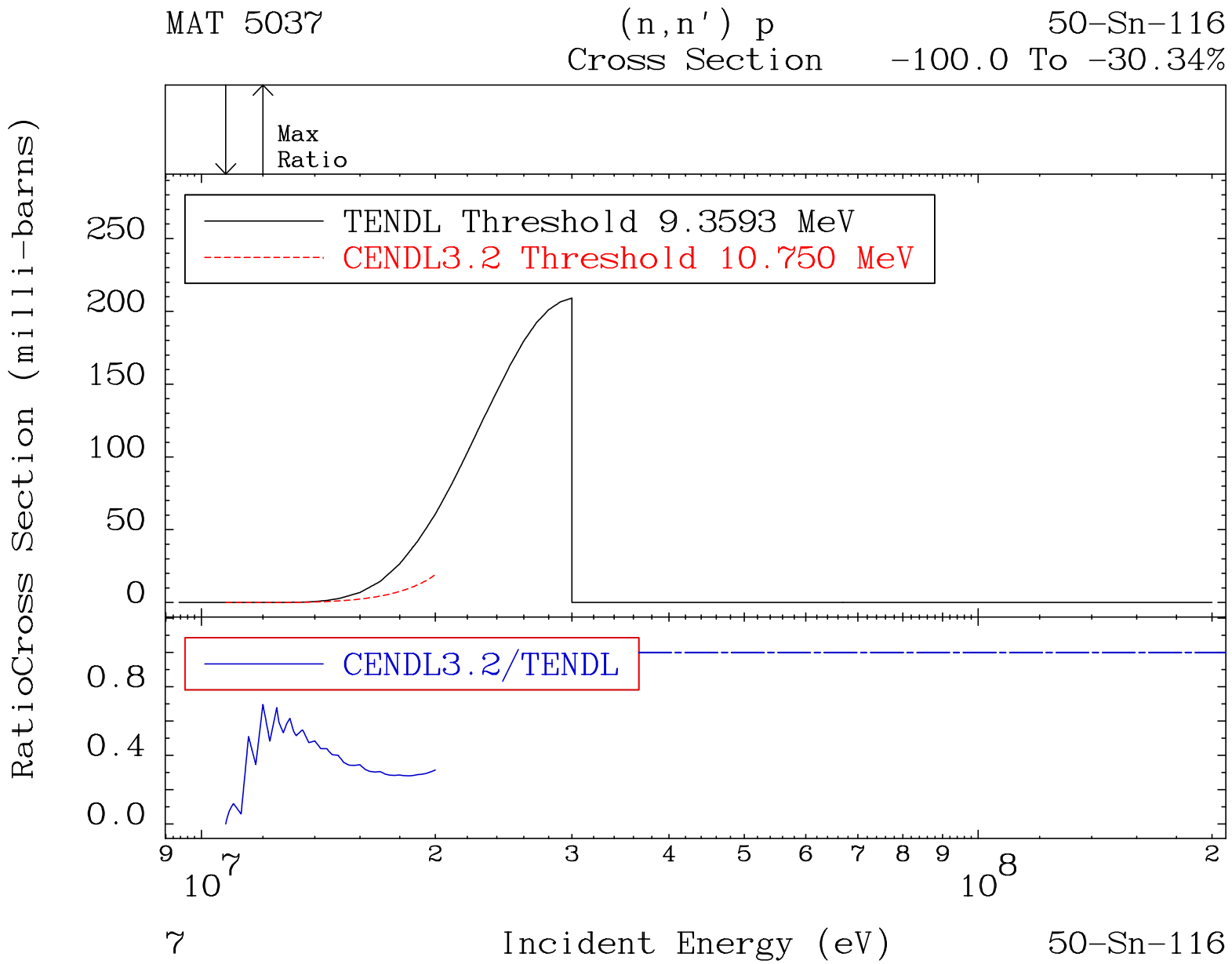

MAT 5037
Elastic
Cross Section
50-Sn-116
-98.78 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
50-Sn-116

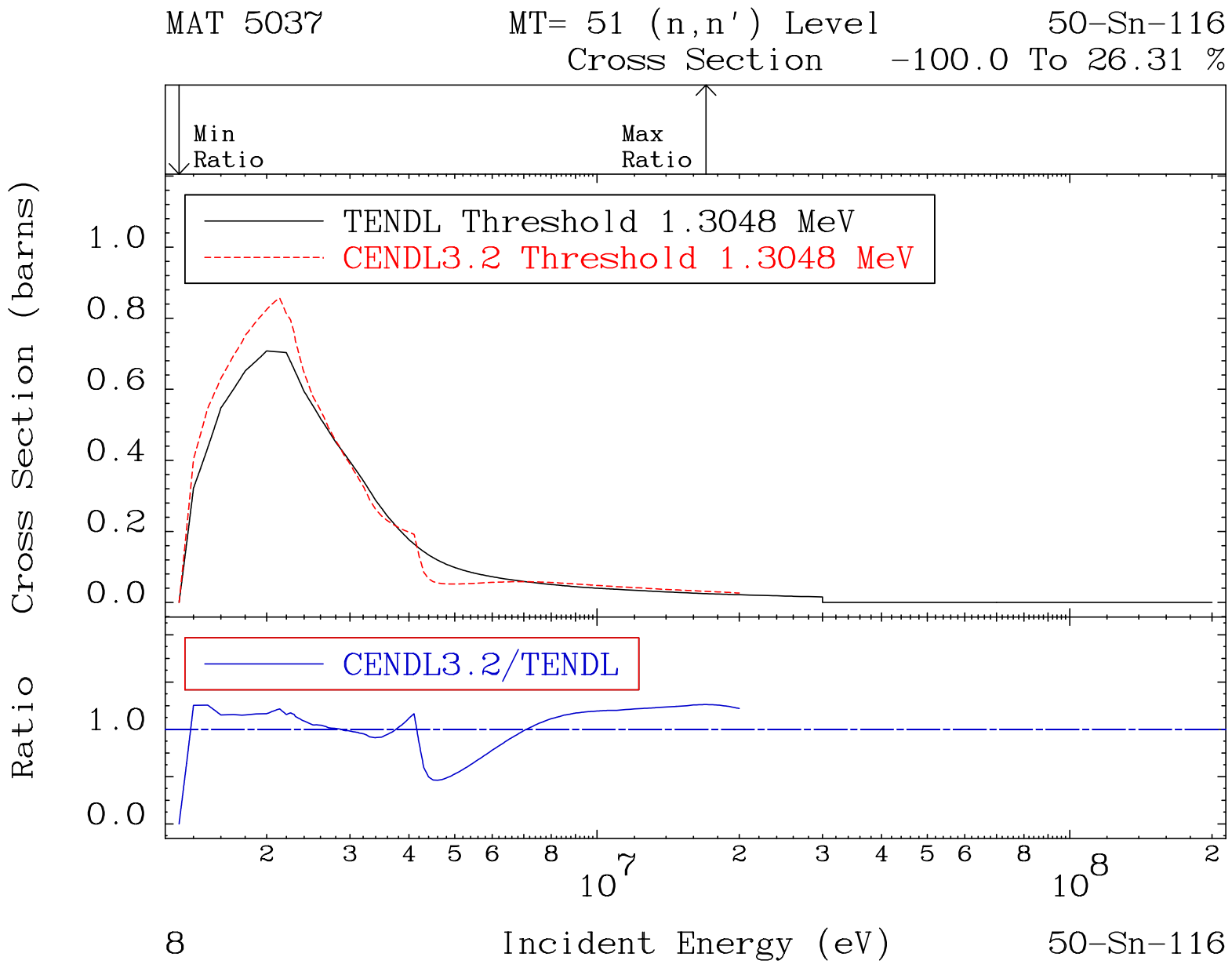

MAT 5037
Inelastic
Cross Section
50-Sn-116
-100.0 To 25.64 %
Max
Ratio
TENDL Threshold 1.3048 MeV
CENDL3.2 Threshold 1.3048 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
50-Sn-116

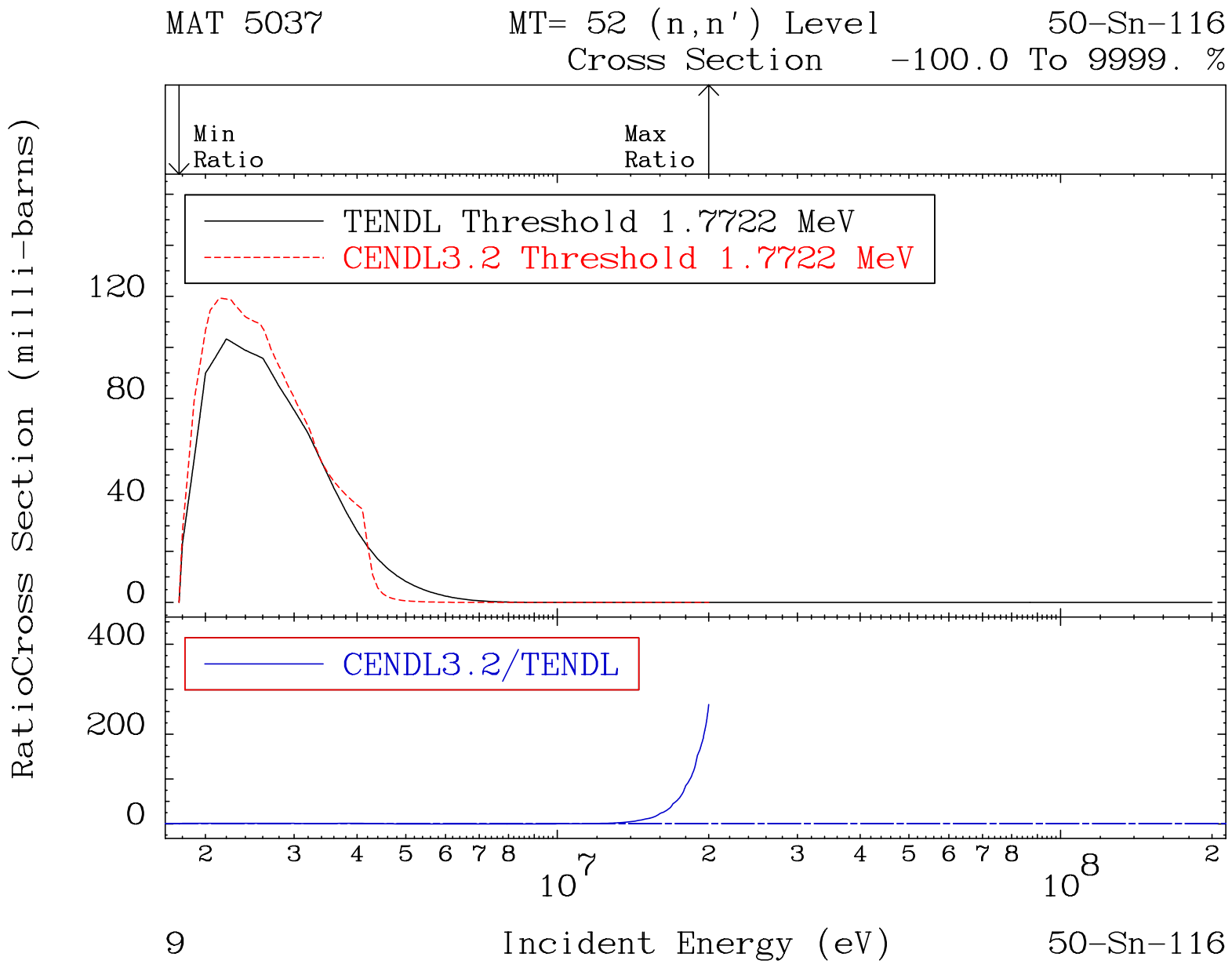

MAT 5037
(n,2n)
Cross Section
50-Sn-116
-91.81 To 11.83 %
Min Ratio
Max Ratio
TENDL Threshold 9.6467 MeV
CENDL3.2 Threshold 9.6467 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
50-Sn-116

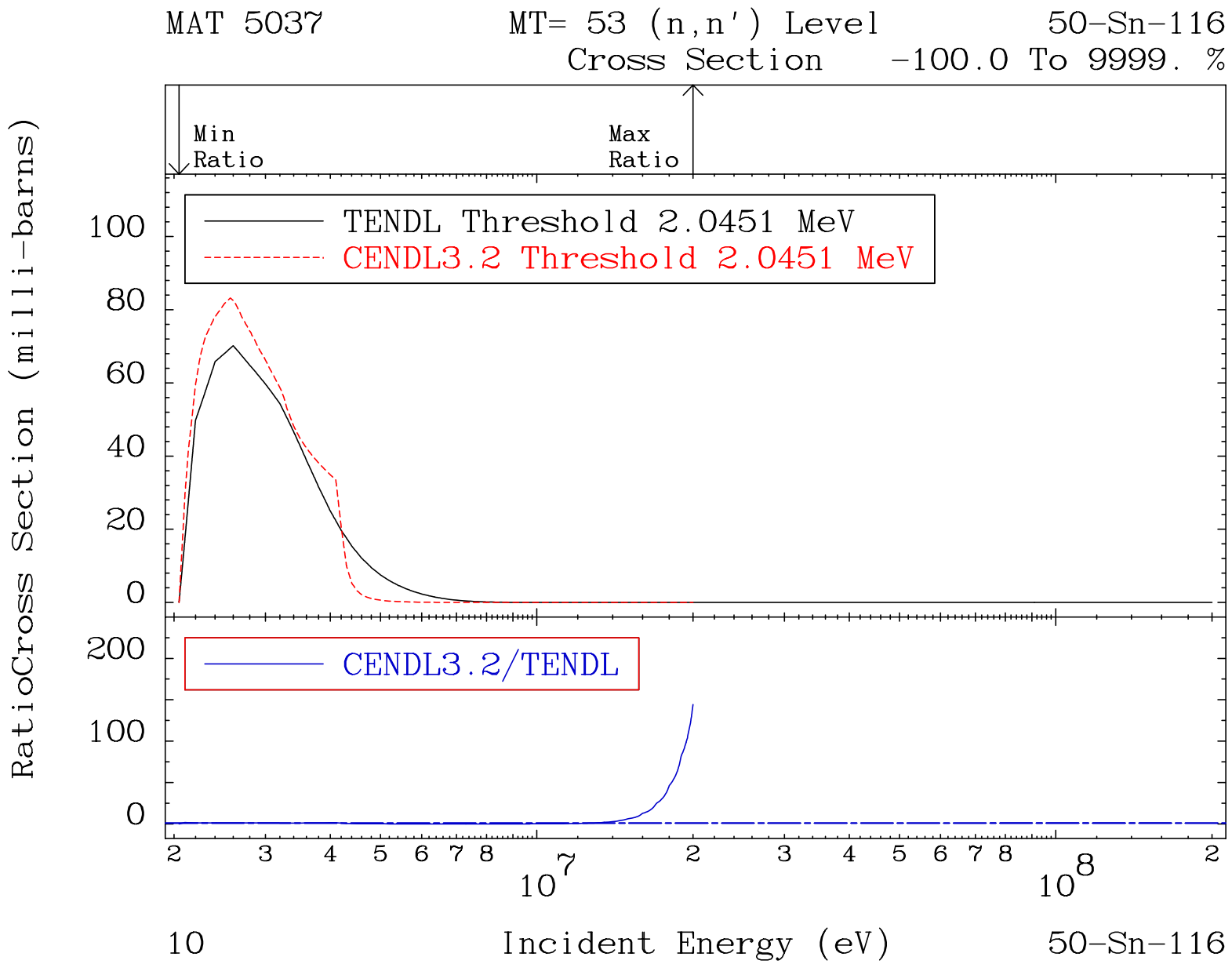

MAT 5037
(n,3n)
Cross Section
50-Sn-116
-100.0 To 416.3 %
Max
Ratio
TENDL Threshold 17.258 MeV
CENDL3.2 Threshold 17.258 MeV
600
400
200
0
8
4
0
CENDL3.2/TENDL
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
5
Incident Energy (eV)
50-Sn-116

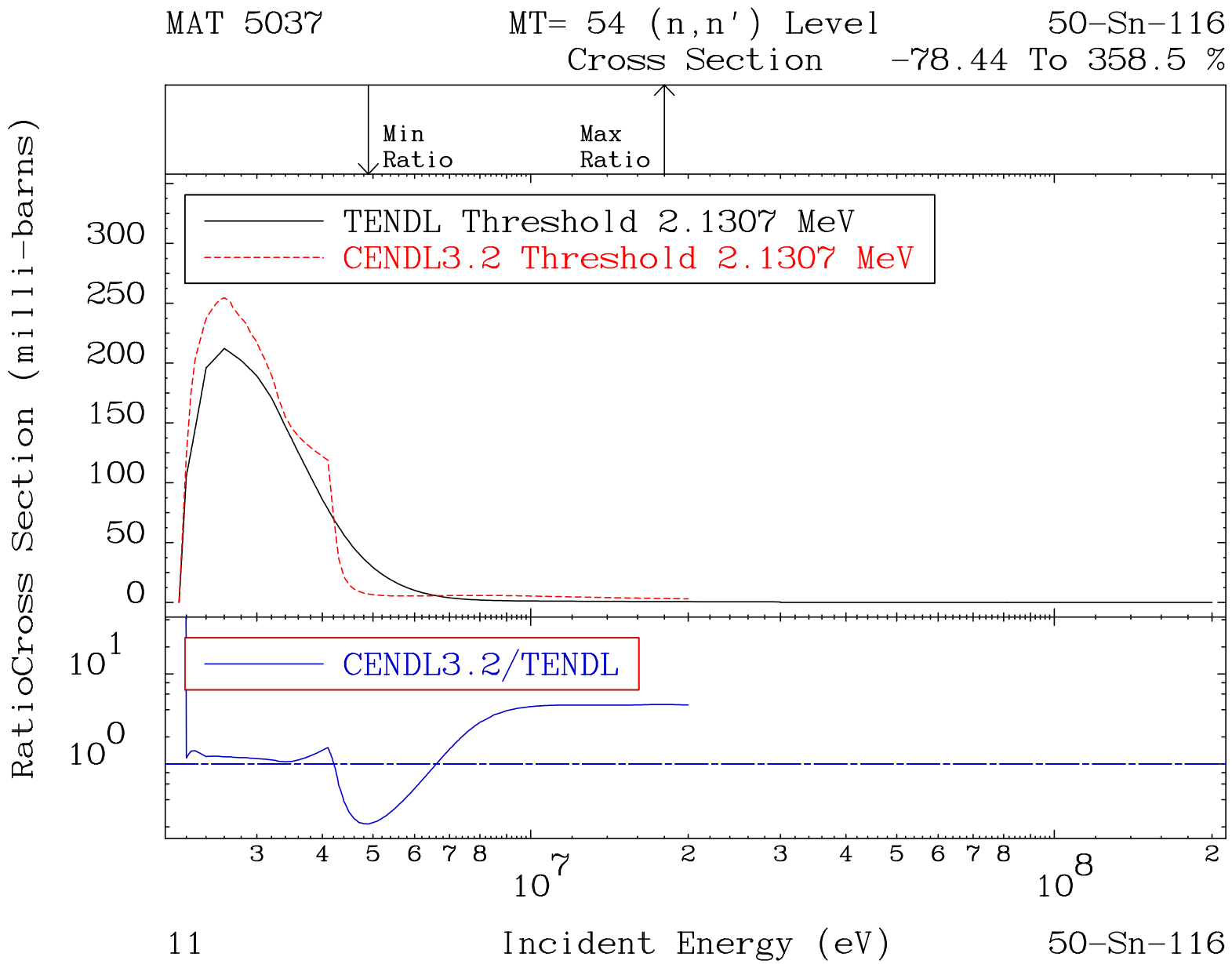

MAT 5037
(n,n') α
Cross Section
50-Sn-116
-100.0 To 1041. %
Min Ratio
Max Ratio
TENDL Threshold 3.4054 MeV
CENDL3.2 Threshold 9.6466 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
12
6
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
6
Incident Energy (eV)
50-Sn-116

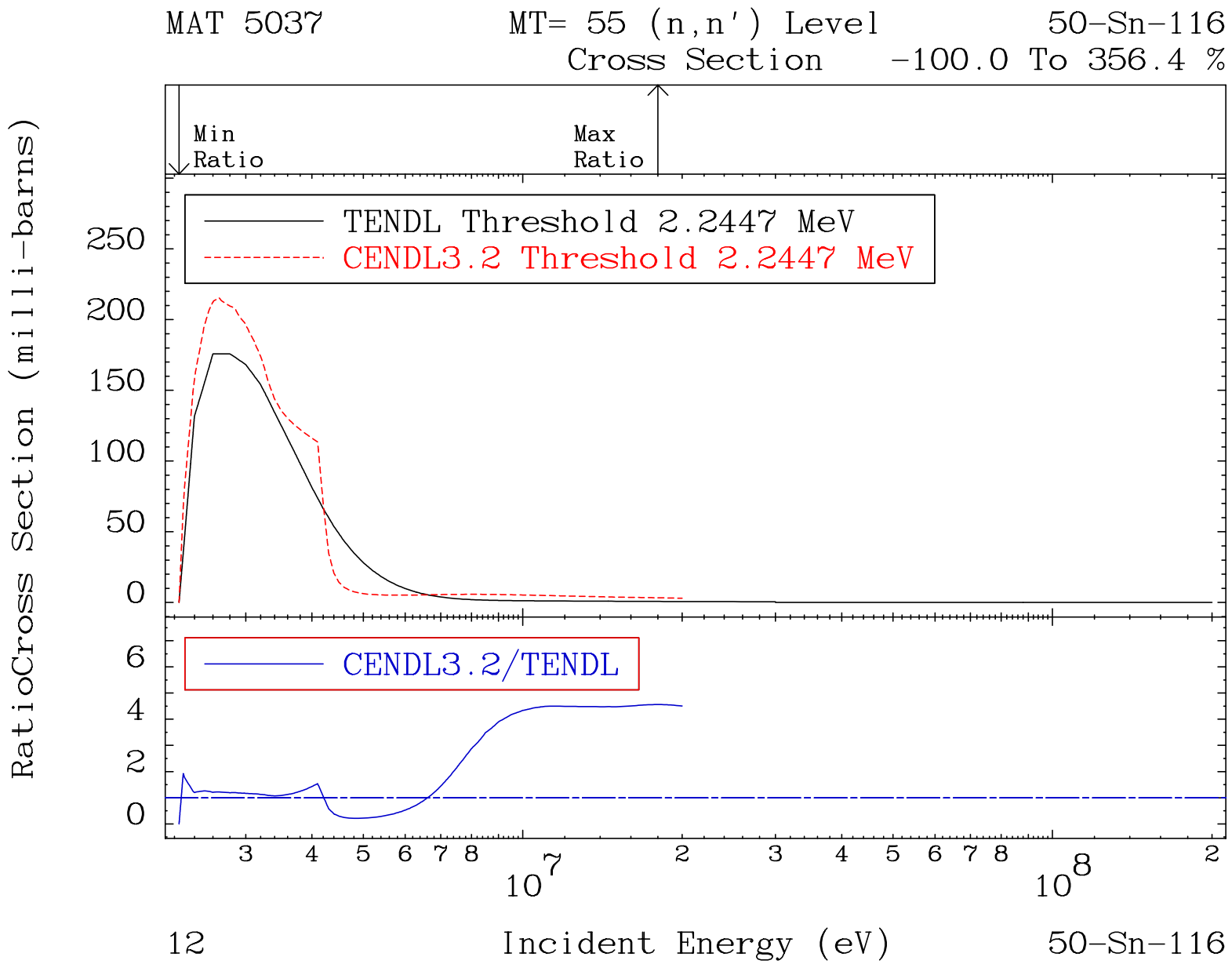

MAT 5037
(n,n') p
Cross Section
50-Sn-116
-100.0 To -30.34%
Max
Ratio
TENDL Threshold 9.3593 MeV
CENDL3.2 Threshold 10.750 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
0.8
0.4
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
50-Sn-116

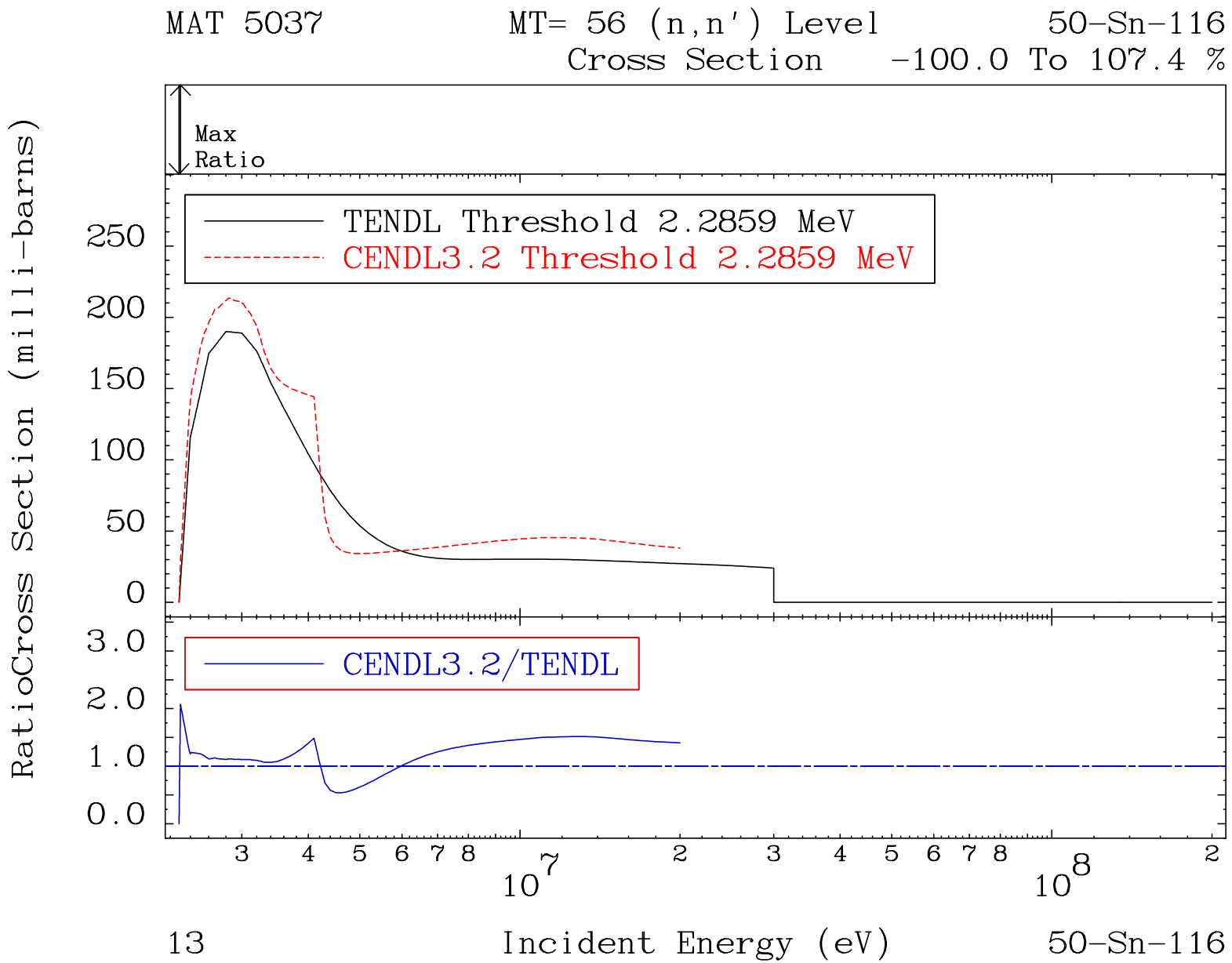

MAT 5037
MT= 51 (n,n') Level
50-Sn-116
Cross Section -100.0 To 26.31 %
Min Ratio
Max Ratio
TENDL Threshold 1.3048 MeV
CENDL3.2 Threshold 1.3048 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
8
50-Sn-116

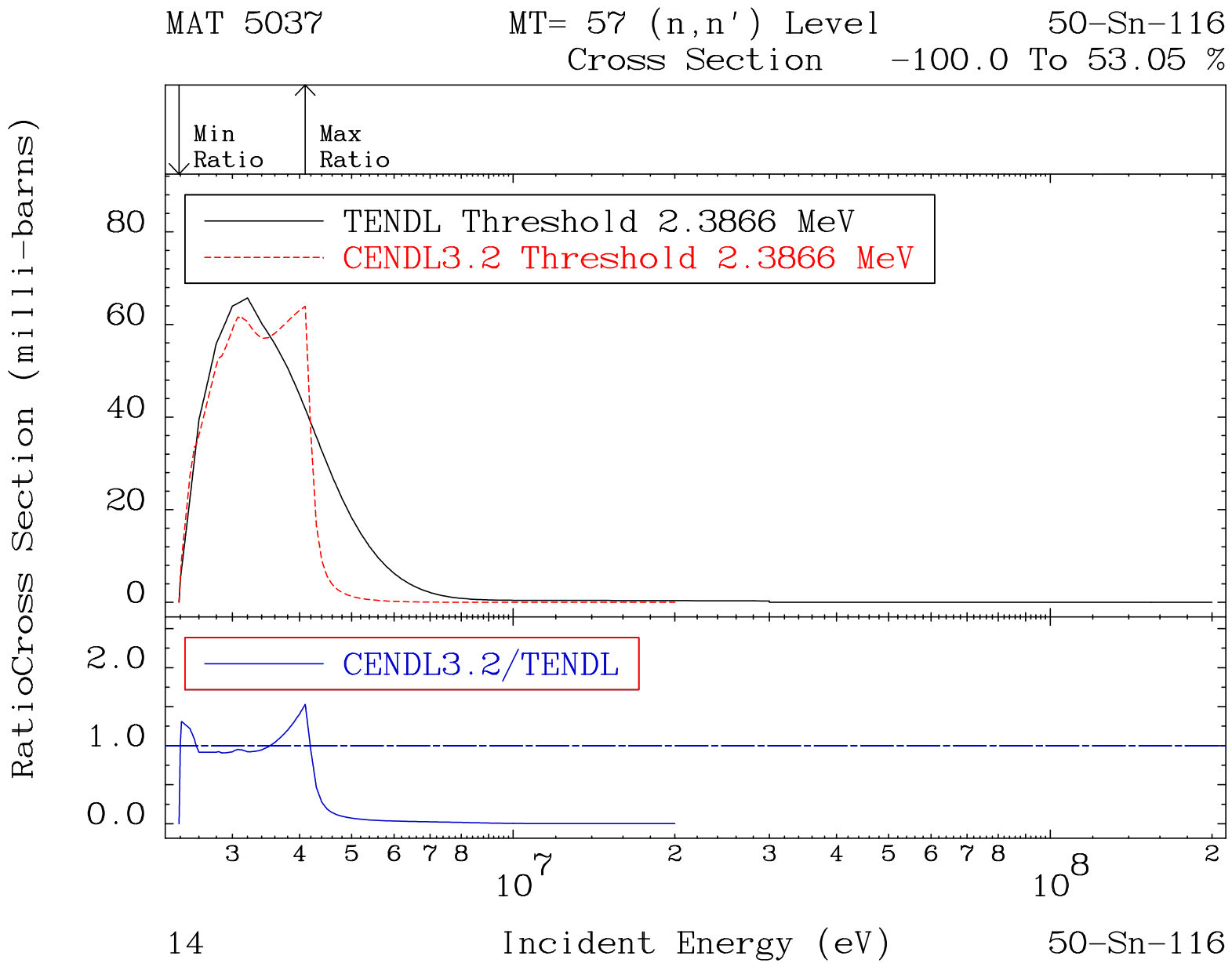

MAT 5037
MT= 52 (n,n') Level
50-Sn-116
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7722 MeV
CENDL3.2 Threshold 1.7722 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
80
40
0
400
200
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
50-Sn-116

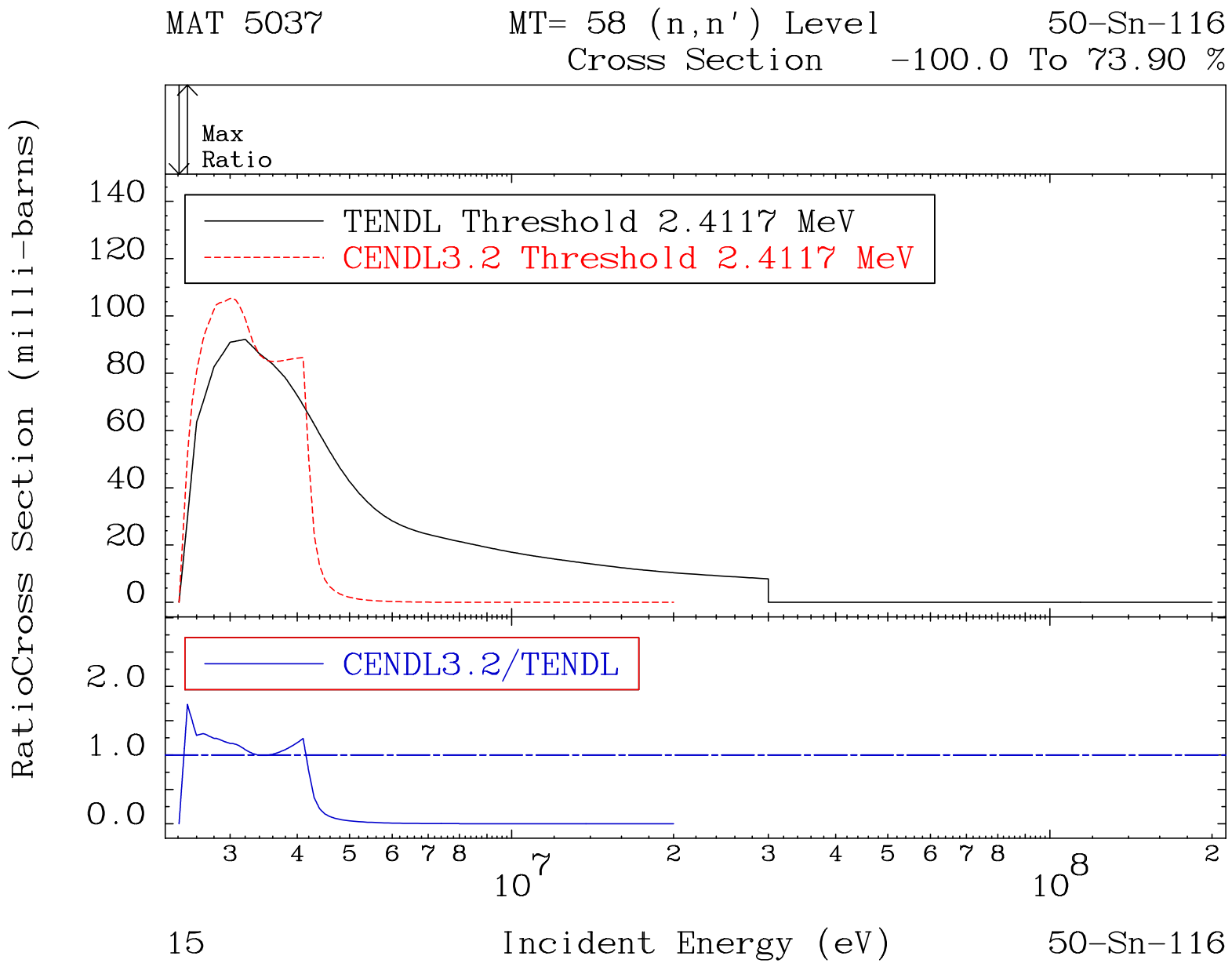

MAT 5037
MT= 53 (n,n') Level
50-Sn-116
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.0451 MeV
CENDL3.2 Threshold 2.0451 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
200
100
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
50-Sn-116

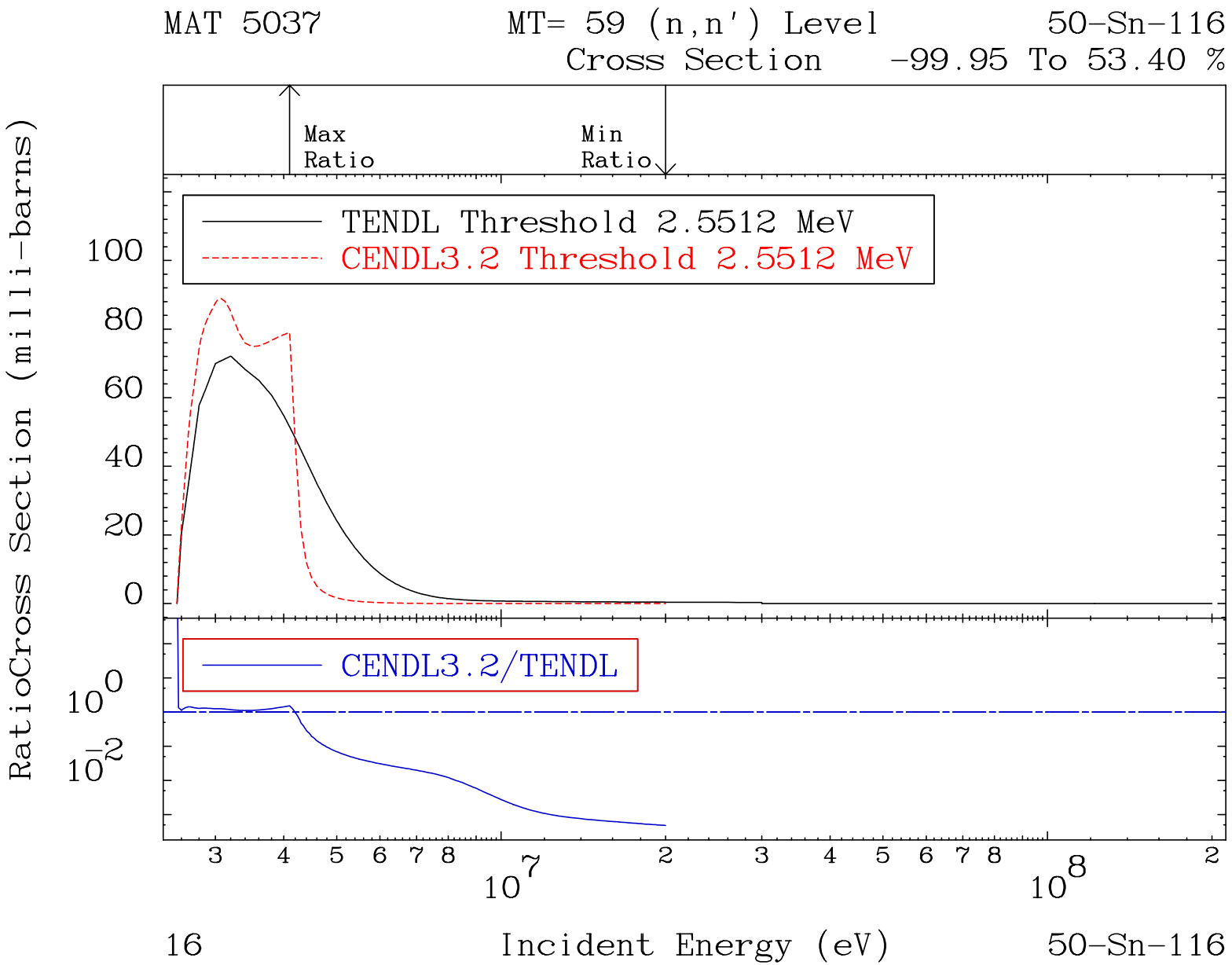

MAT 5037
MT= 54 (n,n') Level
50-Sn-116
Cross Section -78.44 To 358.5 %
Min Ratio
Max Ratio
TENDL Threshold 2.1307 MeV
CENDL3.2 Threshold 2.1307 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
10^1
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
50-Sn-116

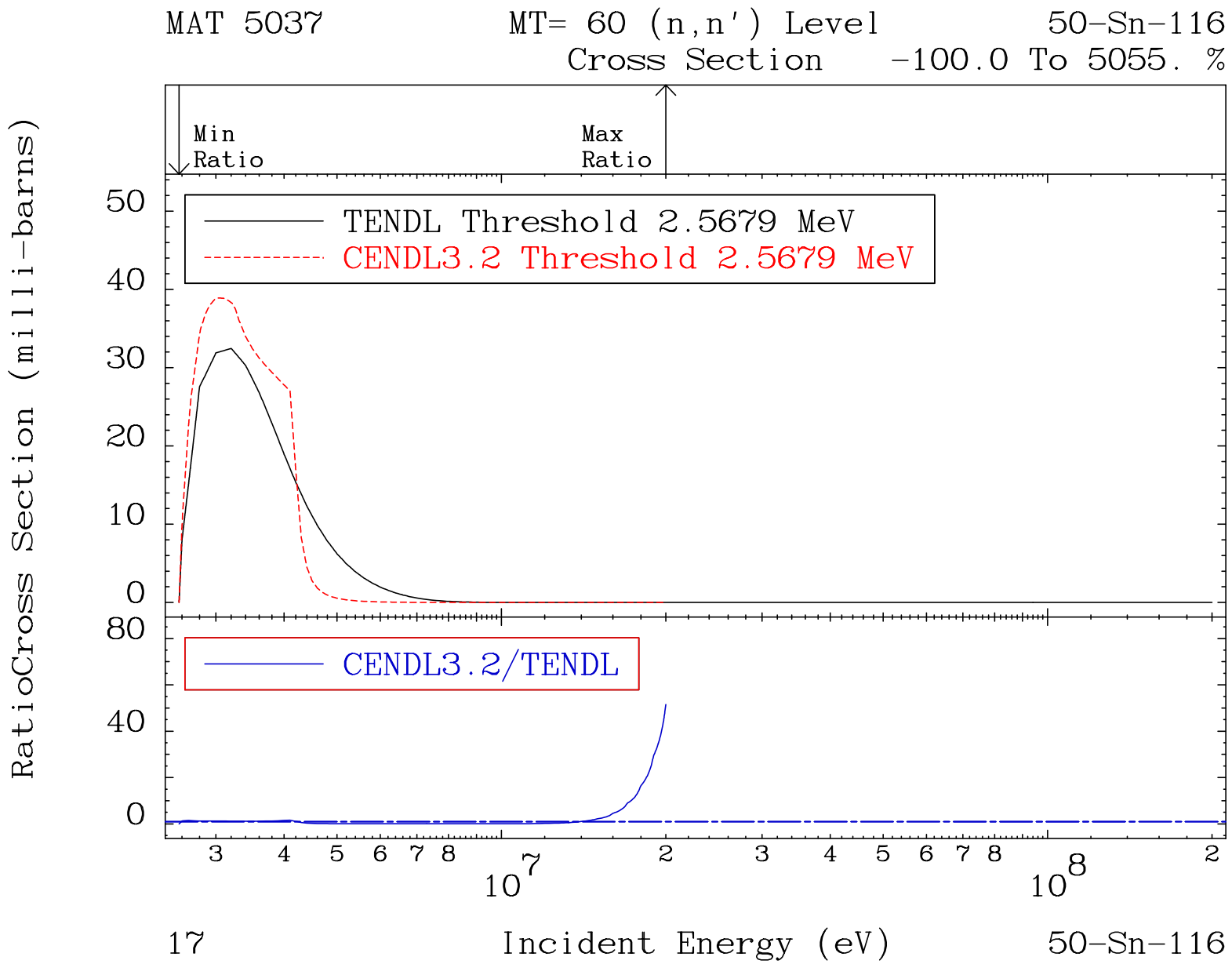

MAT 5037
MT= 55 (n,n') Level
50-Sn-116
Cross Section
-100.0 To 356.4 %
Min Ratio
Max Ratio
TENDL Threshold 2.2447 MeV
CENDL3.2 Threshold 2.2447 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
6
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
50-Sn-116

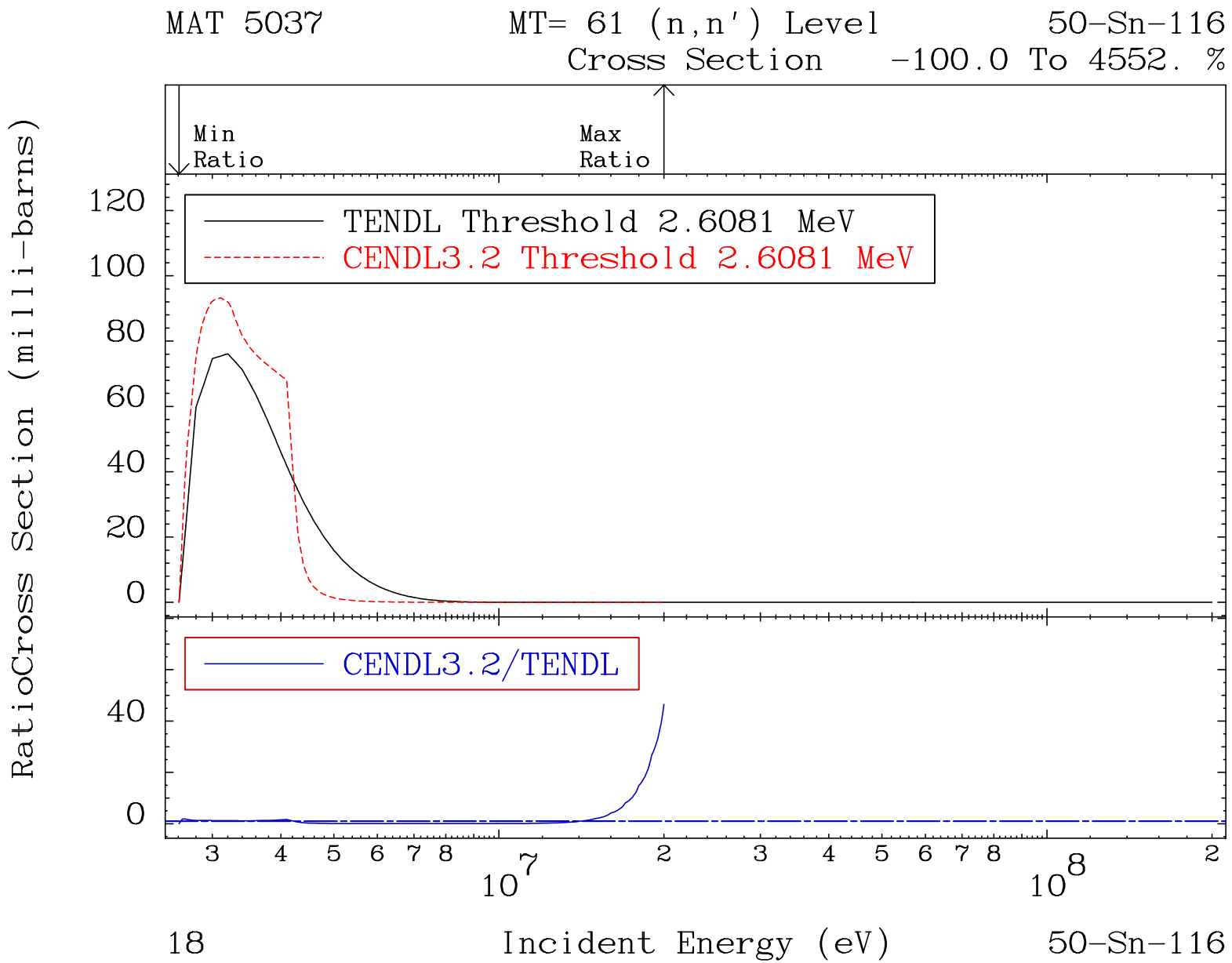

MAT 5037
MT= 56 (n,n') Level
50-Sn-116
Cross Section
-100.0 To 107.4 %
Max
Ratio
TENDL Threshold 2.2859 MeV
CENDL3.2 Threshold 2.2859 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
50-Sn-116

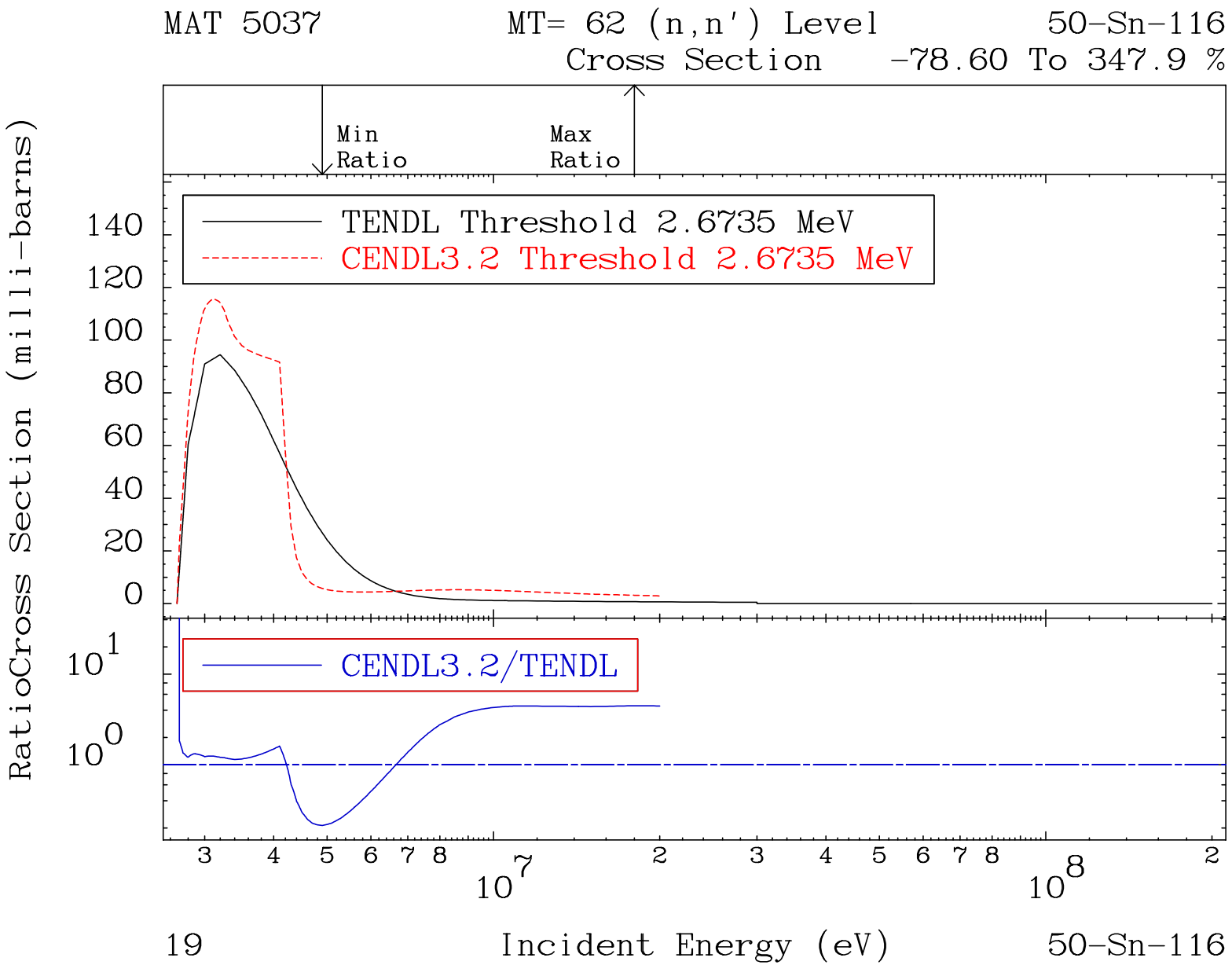

MAT 5037
MT= 57 (n,n') Level
50-Sn-116
Cross Section -100.0 To 53.05 %
Min Ratio
Max Ratio
TENDL Threshold 2.3866 MeV
CENDL3.2 Threshold 2.3866 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
50-Sn-116

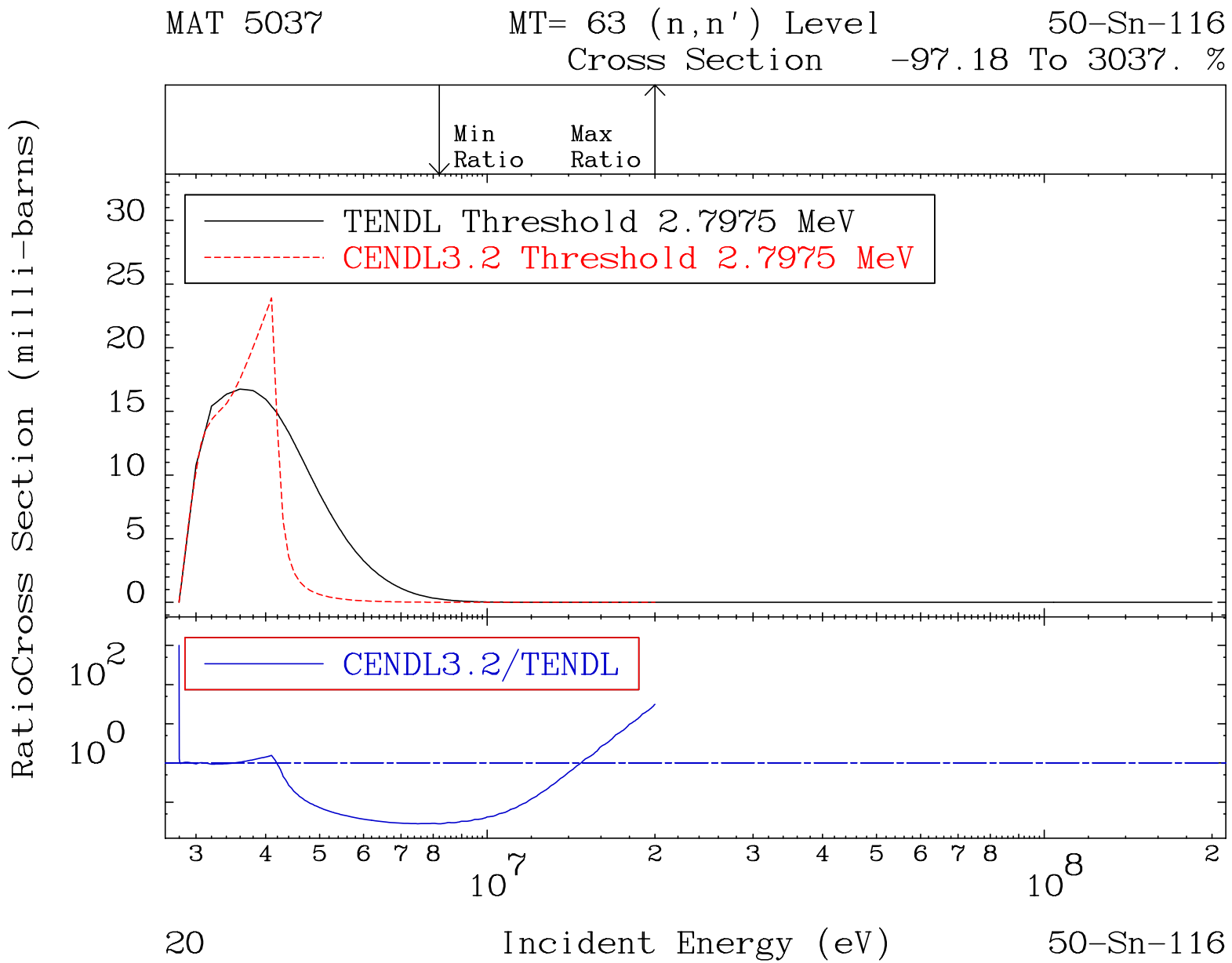

MAT 5037
MT= 58 (n,n') Level
50-Sn-116
Cross Section -100.0 To 73.90 %
Max
Ratio
TENDL Threshold 2.4117 MeV
CENDL3.2 Threshold 2.4117 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
50-Sn-116

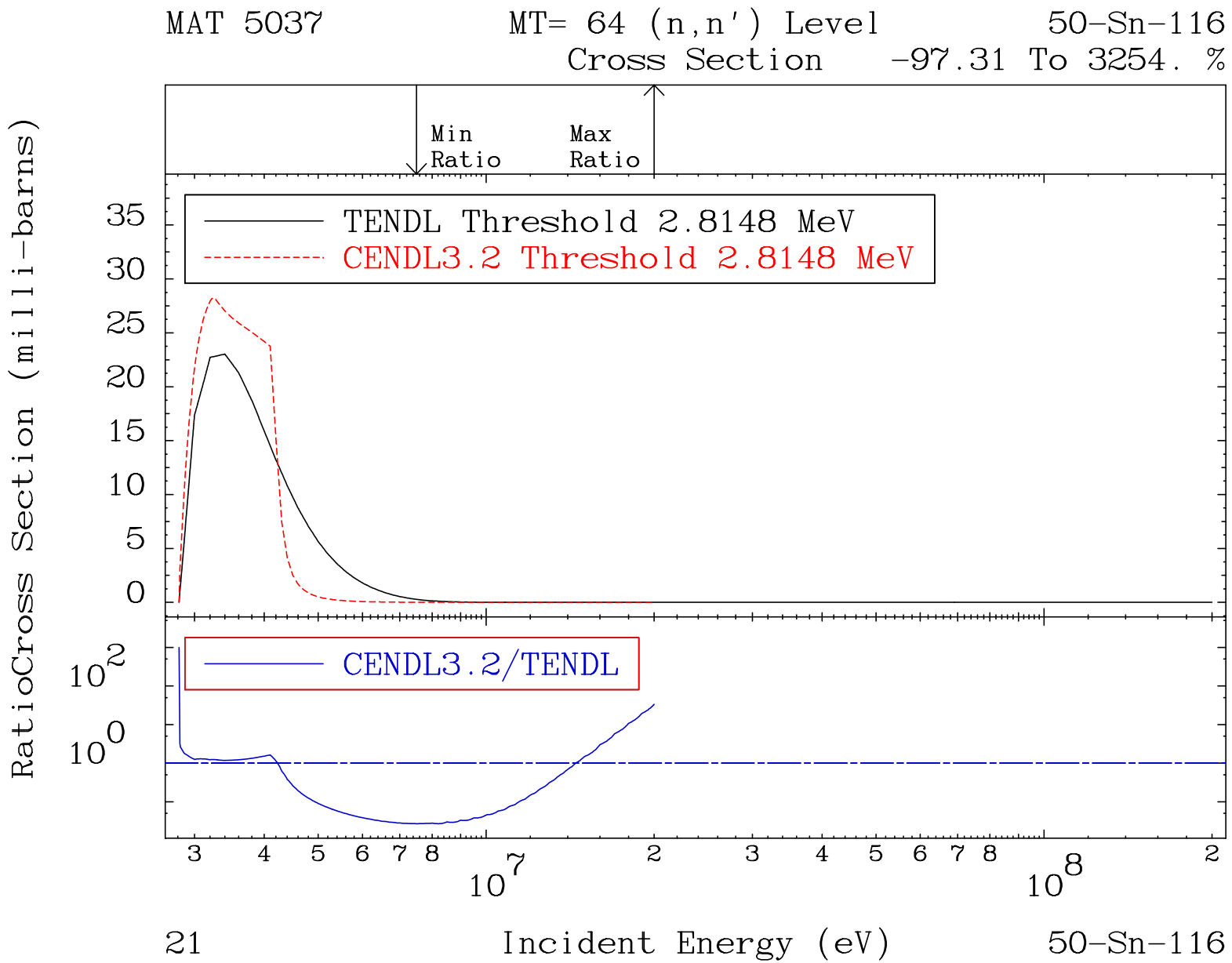

MAT 5037
MT= 59 (n,n') Level
50-Sn-116
Cross Section -99.95 To 53.40 %
Max Ratio
Min Ratio
TENDL Threshold 2.5512 MeV
CENDL3.2 Threshold 2.5512 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
10^0
10^-2
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
50-Sn-116

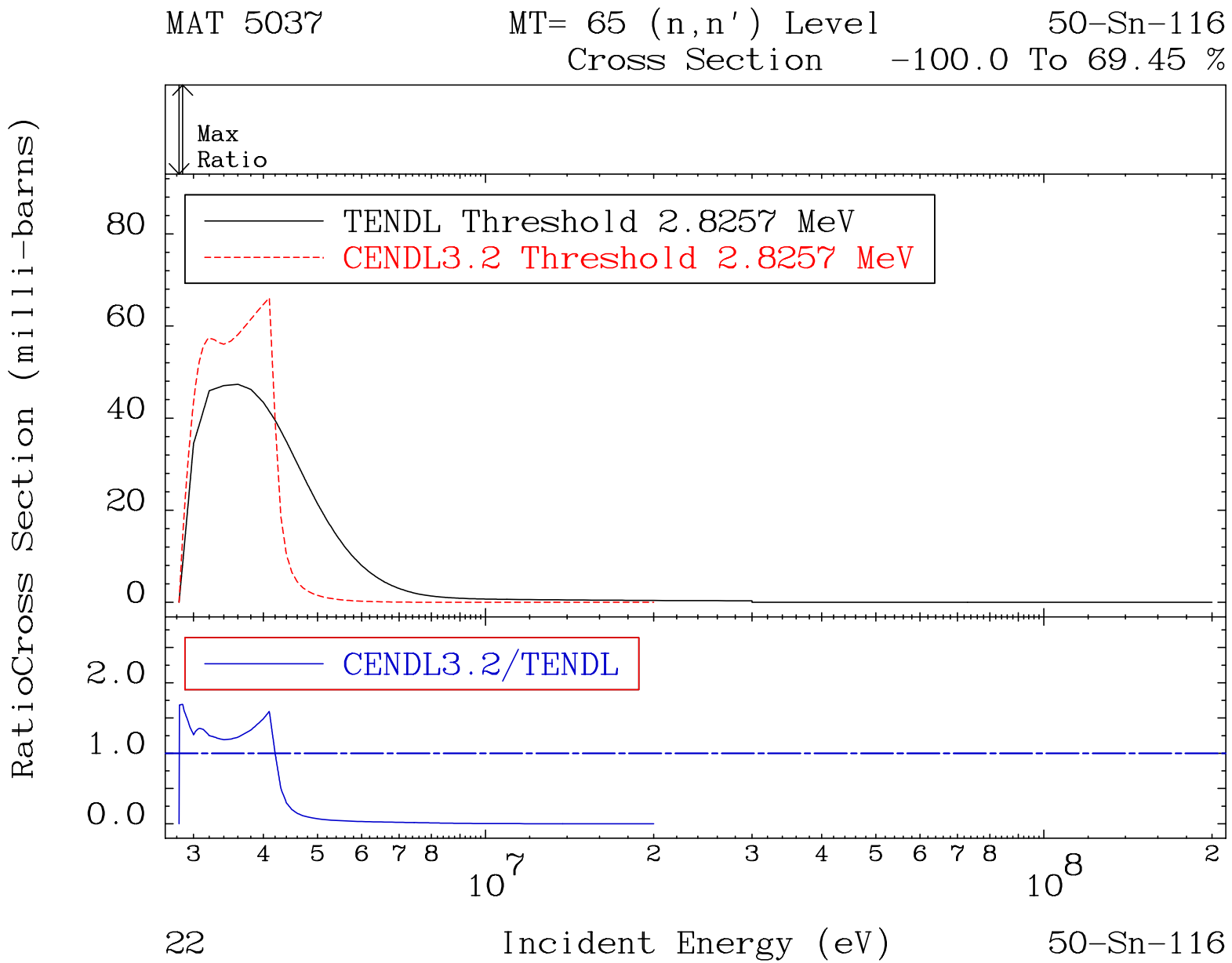

MAT 5037
MT= 60 (n,n') Level
50-Sn-116
Cross Section -100.0 To 5055. %
Min Ratio
Max Ratio
TENDL Threshold 2.5679 MeV
CENDL3.2 Threshold 2.5679 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
80
40
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
50-Sn-116

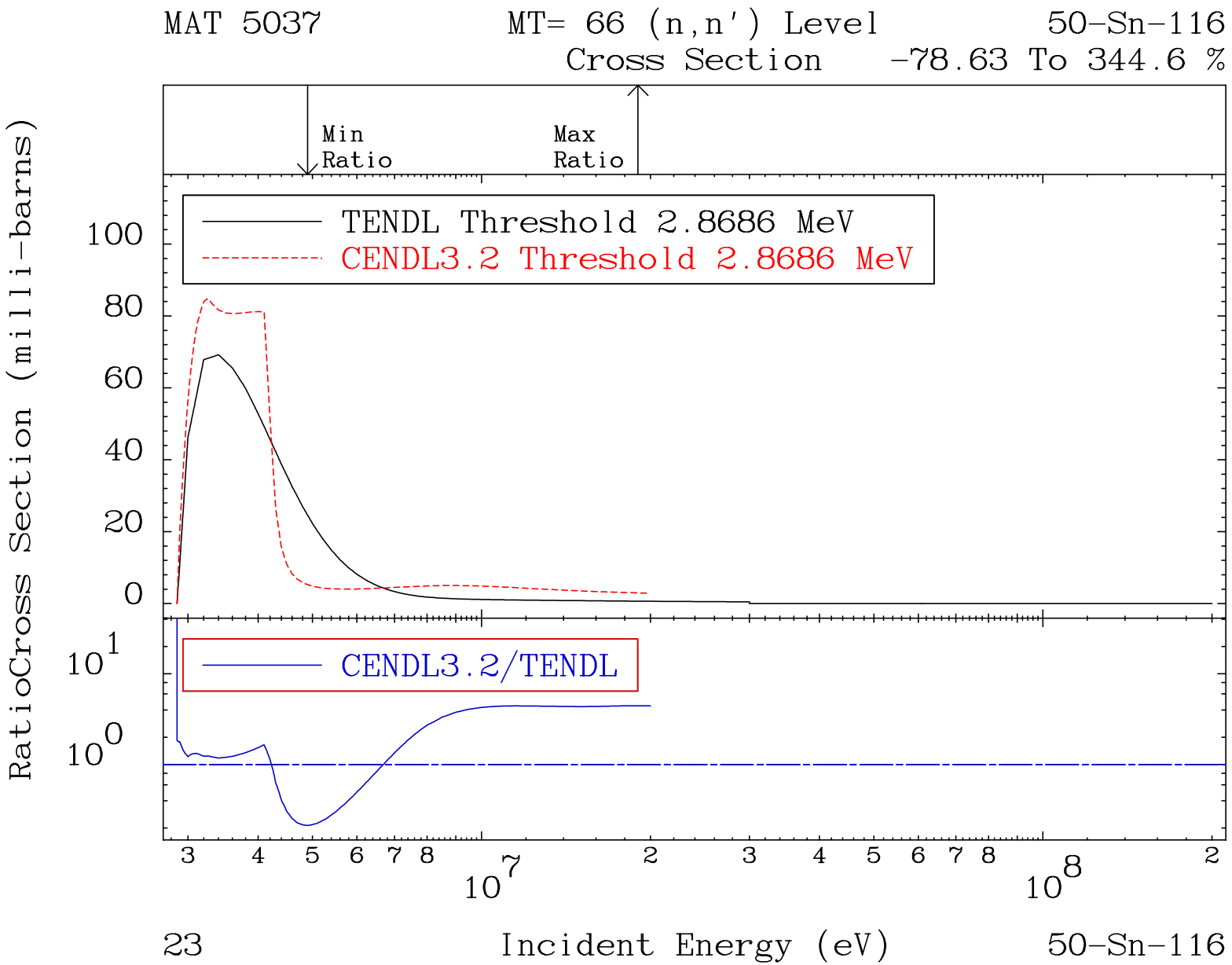

MAT 5037
MT= 61 (n,n') Level
50-Sn-116
Cross Section -100.0 To 4552. %
Min Ratio
Max Ratio
TENDL Threshold 2.6081 MeV
CENDL3.2 Threshold 2.6081 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
40
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
50-Sn-116

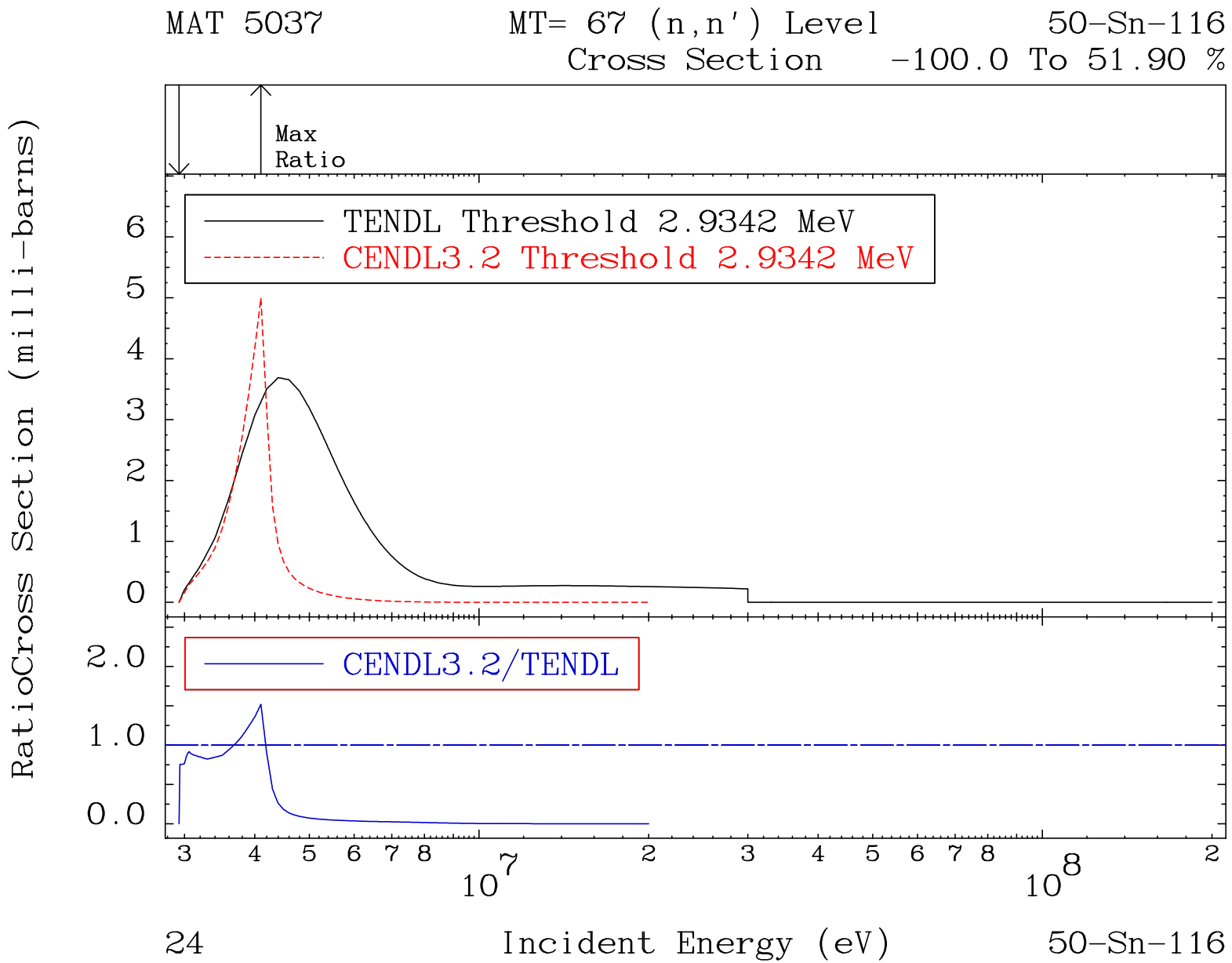

MAT 5037
MT= 62 (n,n') Level
50-Sn-116
Cross Section -78.60 To 347.9 %
Min Ratio
Max Ratio
TENDL Threshold 2.6735 MeV
CENDL3.2 Threshold 2.6735 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
10^1
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
50-Sn-116

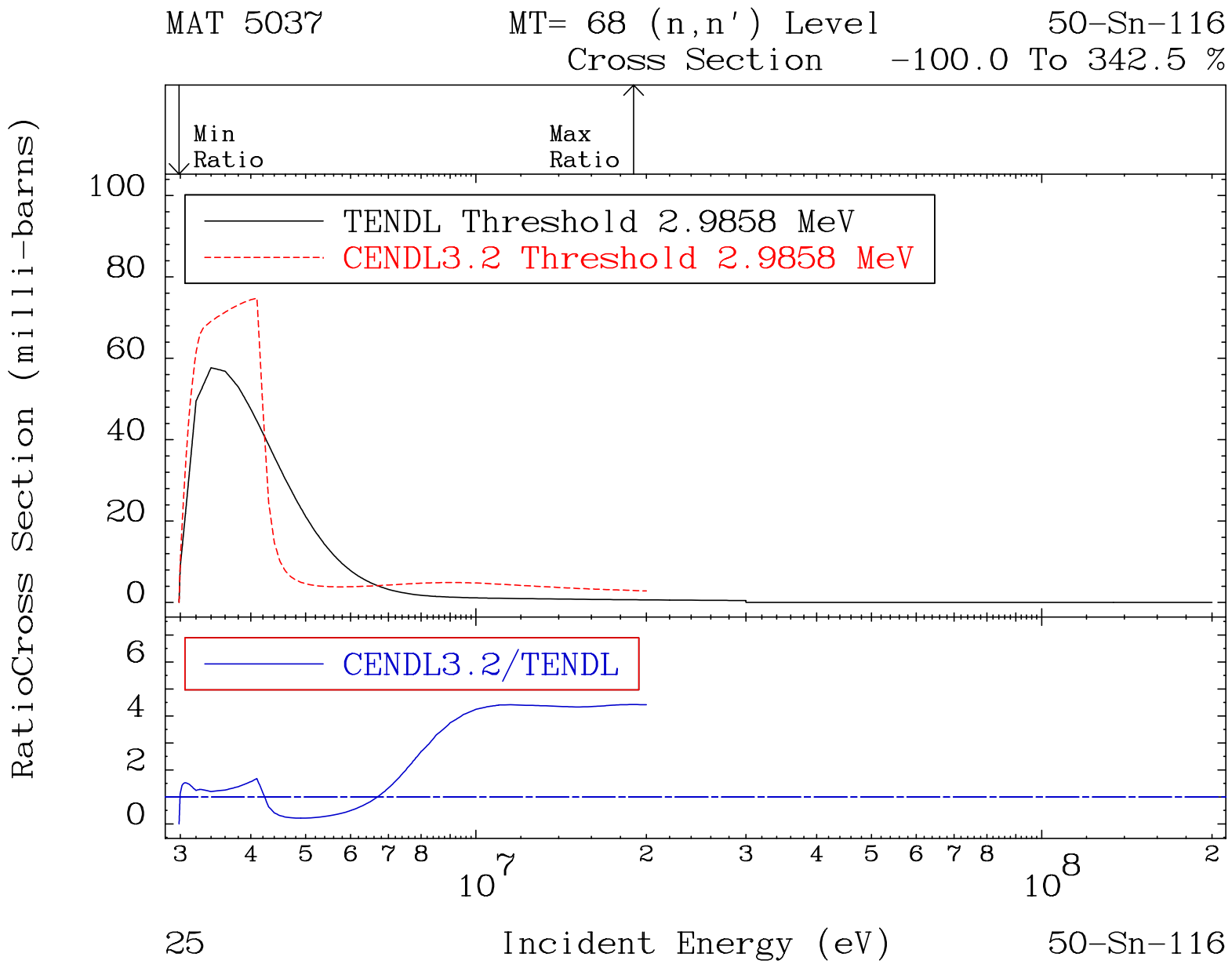

MAT 5037
MT= 63 (n,n') Level
50-Sn-116
Cross Section -97.18 To 3037. %
Min Ratio
Max Ratio
TENDL Threshold 2.7975 MeV
CENDL3.2 Threshold 2.7975 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
$10^2$
$10^0$
3 4 5 6 7 8 $10^7$ 2 3 4 5 6 7 8 $10^8$ 2
20
Incident Energy (eV)
50-Sn-116

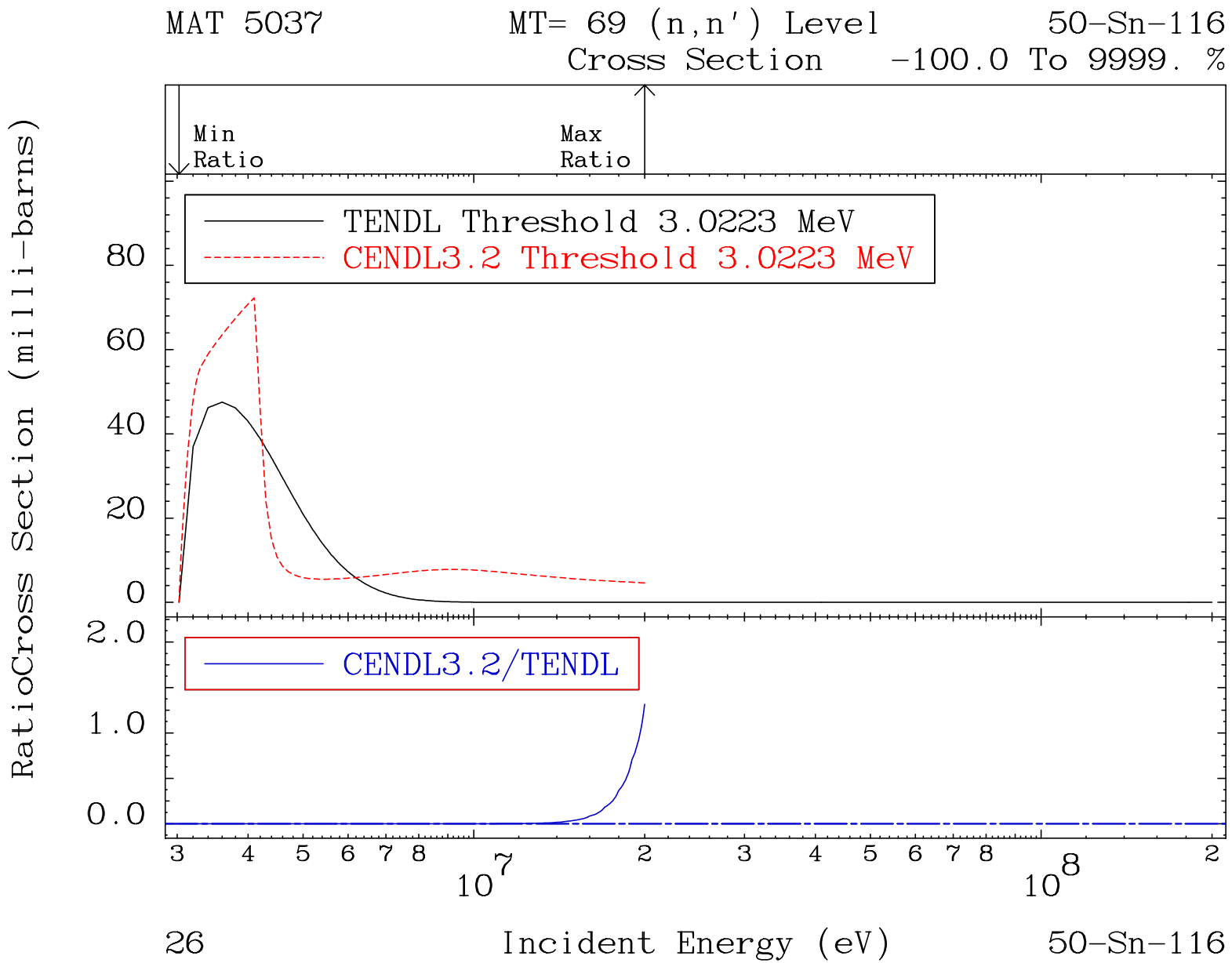

MAT 5037
MT= 64 (n,n') Level
50-Sn-116
Cross Section -97.31 To 3254. %
Min Ratio
Max Ratio
TENDL Threshold 2.8148 MeV
CENDL3.2 Threshold 2.8148 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
21
50-Sn-116

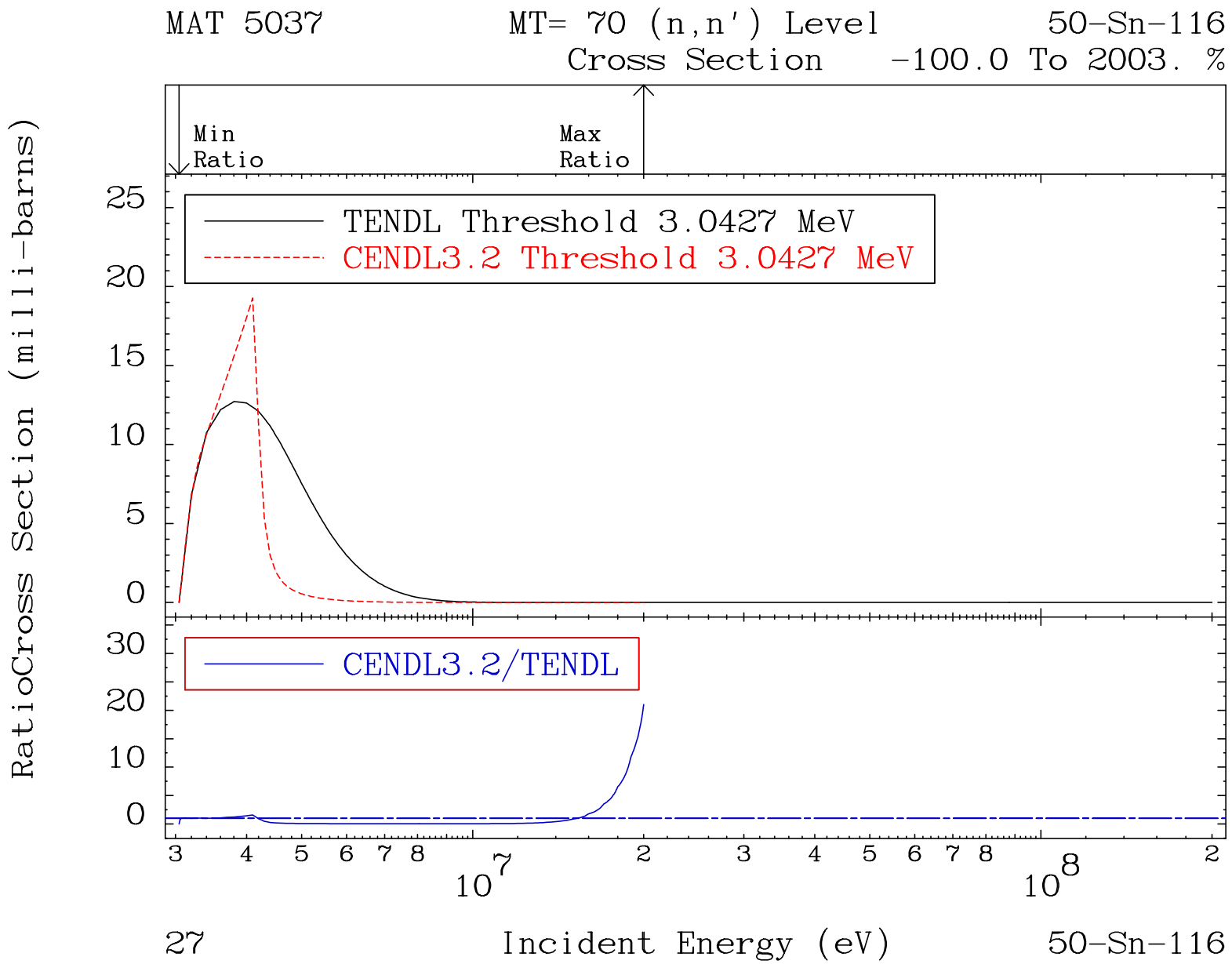

MAT 5037
MT= 65 (n,n') Level
50-Sn-116
Cross Section -100.0 To 69.45 %
Max
Ratio
TENDL Threshold 2.8257 MeV
CENDL3.2 Threshold 2.8257 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
50-Sn-116

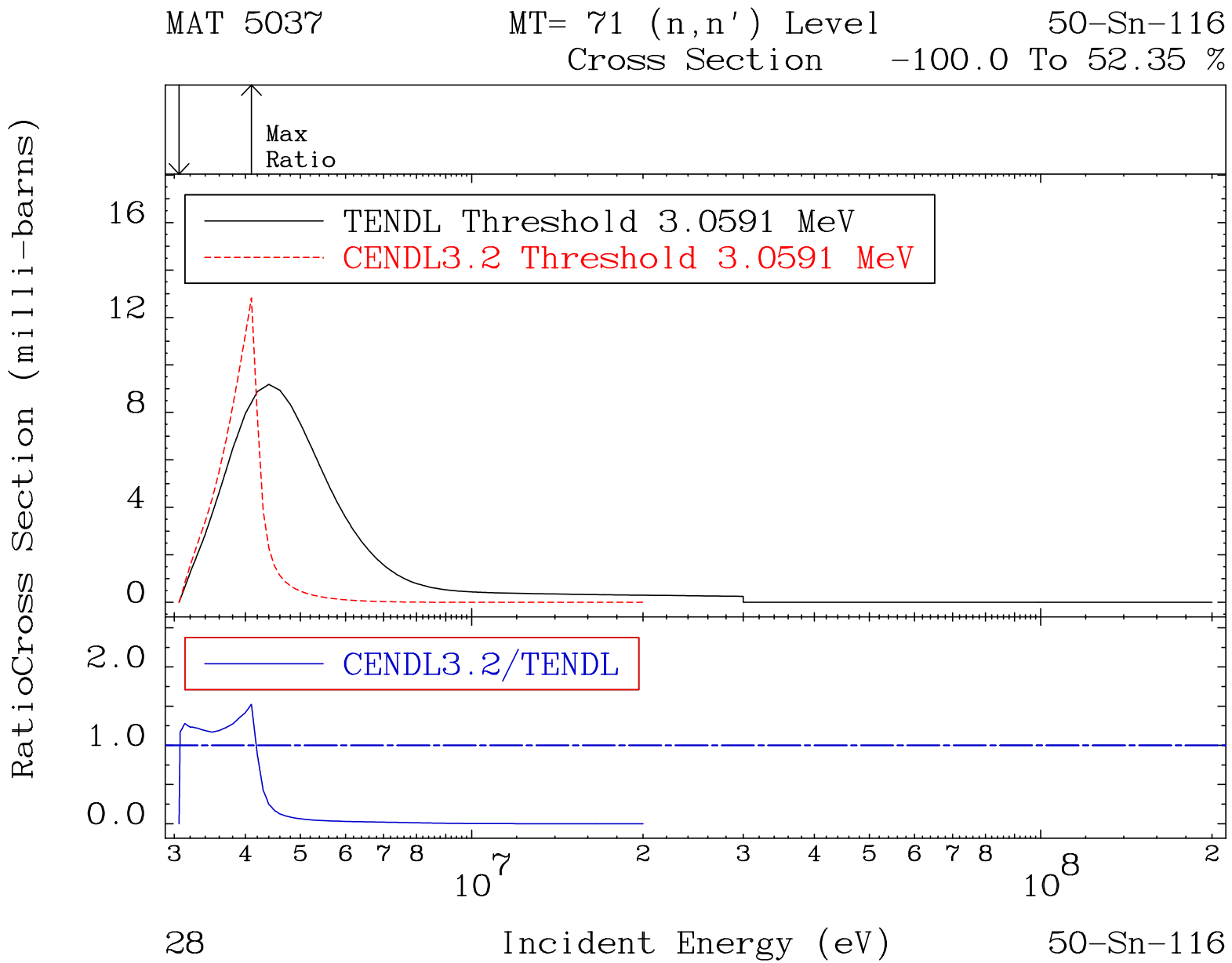

MAT 5037
MT= 66 (n,n') Level
50-Sn-116
Cross Section -78.63 To 344.6 %
Min Ratio
Max Ratio
TENDL Threshold 2.8686 MeV
CENDL3.2 Threshold 2.8686 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
10^1
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
50-Sn-116

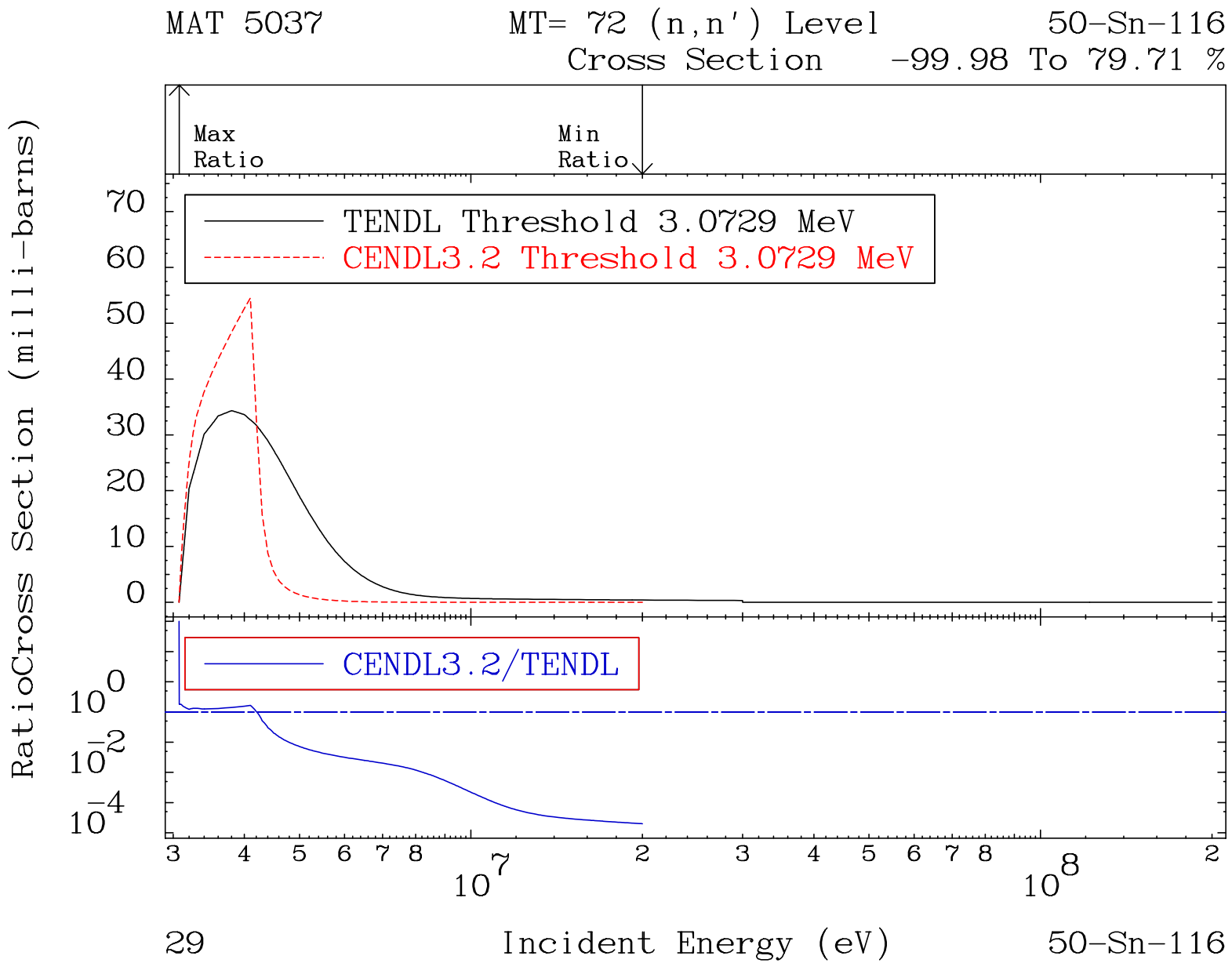

MAT 5037
MT= 67 (n,n') Level
50-Sn-116
Cross Section
-100.0 To 51.90 %
Max
Ratio
TENDL Threshold 2.9342 MeV
CENDL3.2 Threshold 2.9342 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
24
50-Sn-116

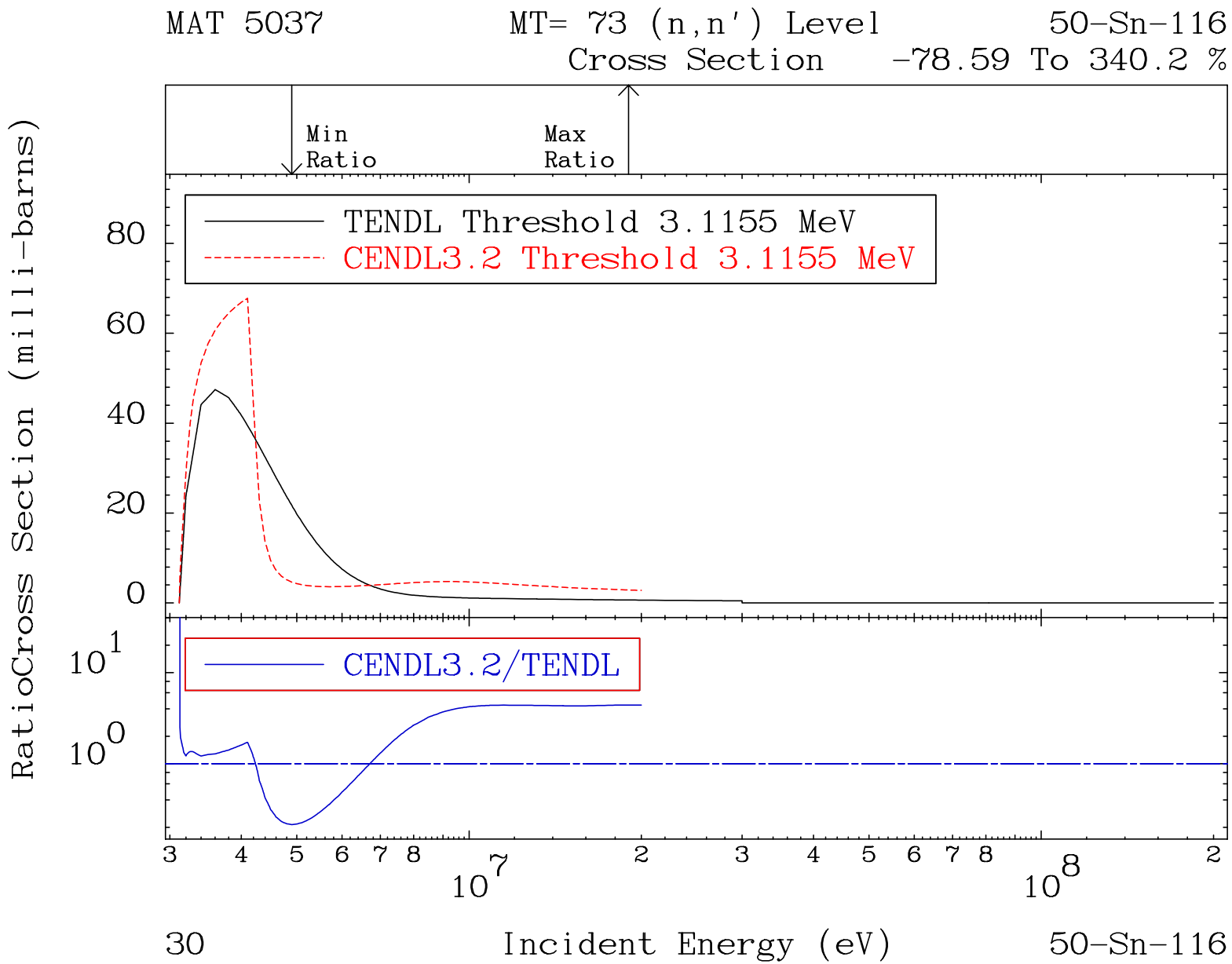

MAT 5037
MT= 68 (n,n') Level
50-Sn-116
Cross Section
-100.0 To 342.5 %
Min Ratio
Max Ratio
TENDL Threshold 2.9858 MeV
CENDL3.2 Threshold 2.9858 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
25
50-Sn-116

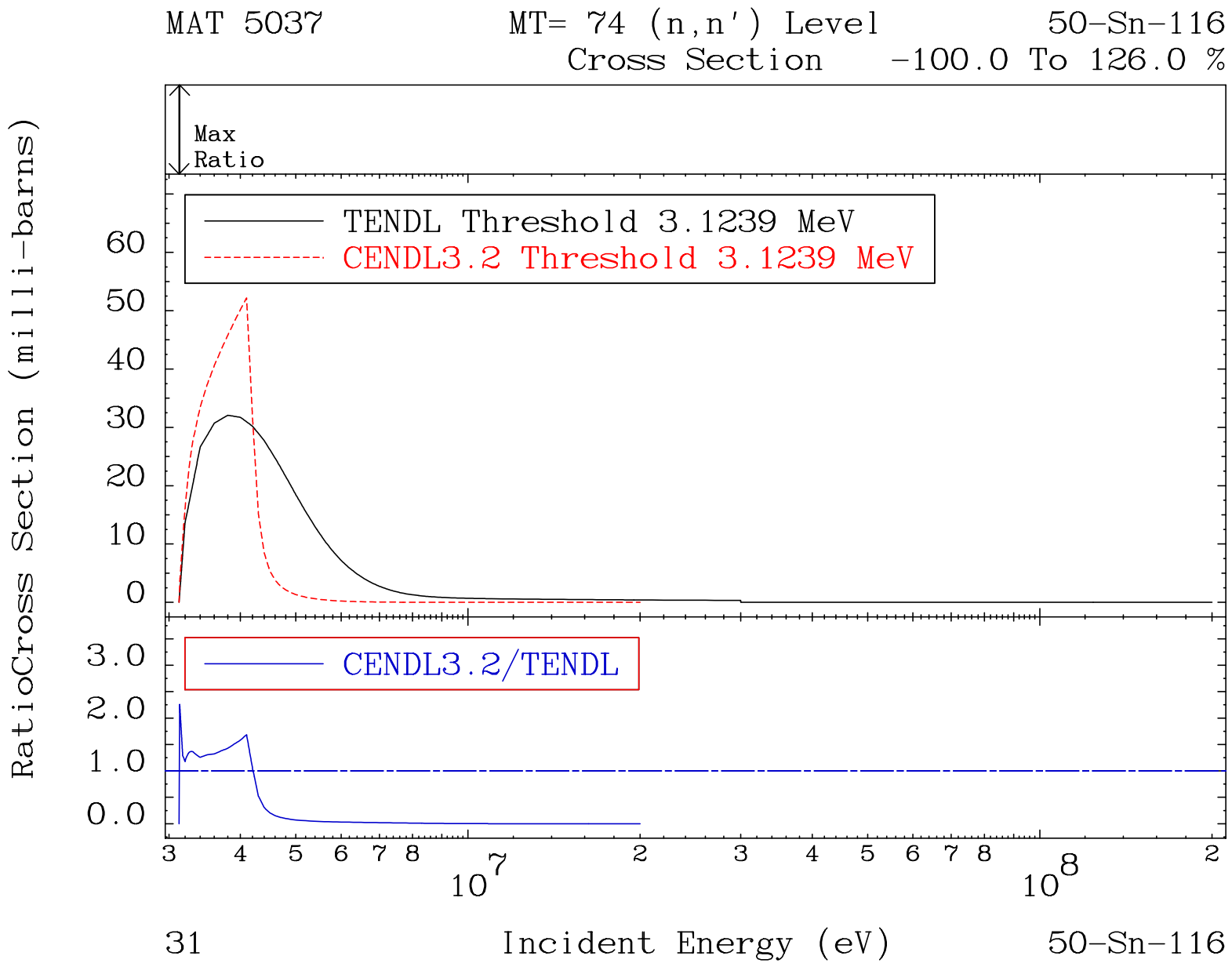

MAT 5037
MT= 69 (n,n') Level
50-Sn-116
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.0223 MeV
CENDL3.2 Threshold 3.0223 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
50-Sn-116

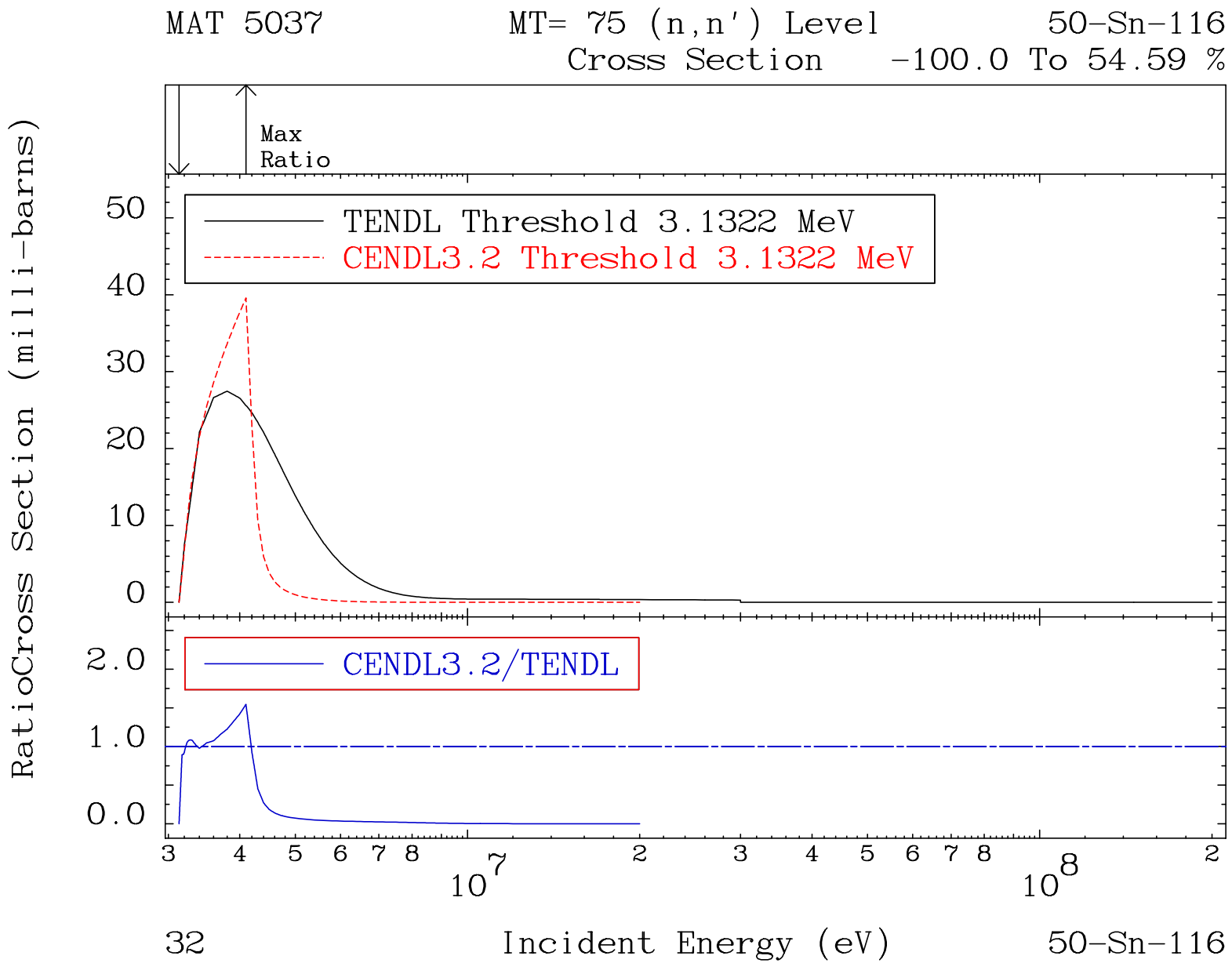

MAT 5037
MT= 70 (n,n') Level
50-Sn-116
Cross Section -100.0 To 2003. %
Min Ratio
Max Ratio
TENDL Threshold 3.0427 MeV
CENDL3.2 Threshold 3.0427 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
27
50-Sn-116

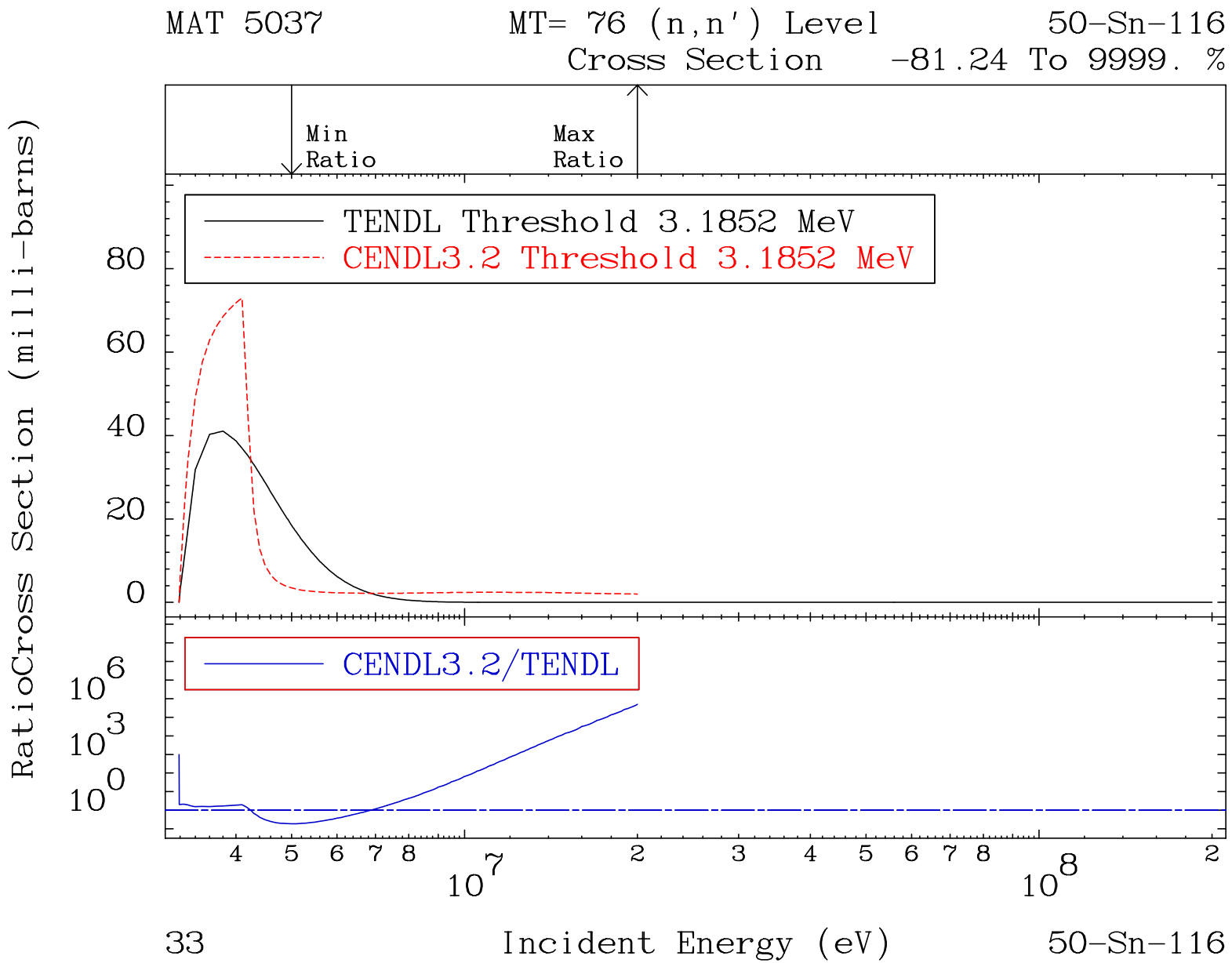

MAT 5037
MT= 71 (n,n') Level
50-Sn-116
Cross Section -100.0 To 52.35 %
Max
Ratio
TENDL Threshold 3.0591 MeV
CENDL3.2 Threshold 3.0591 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
50-Sn-116

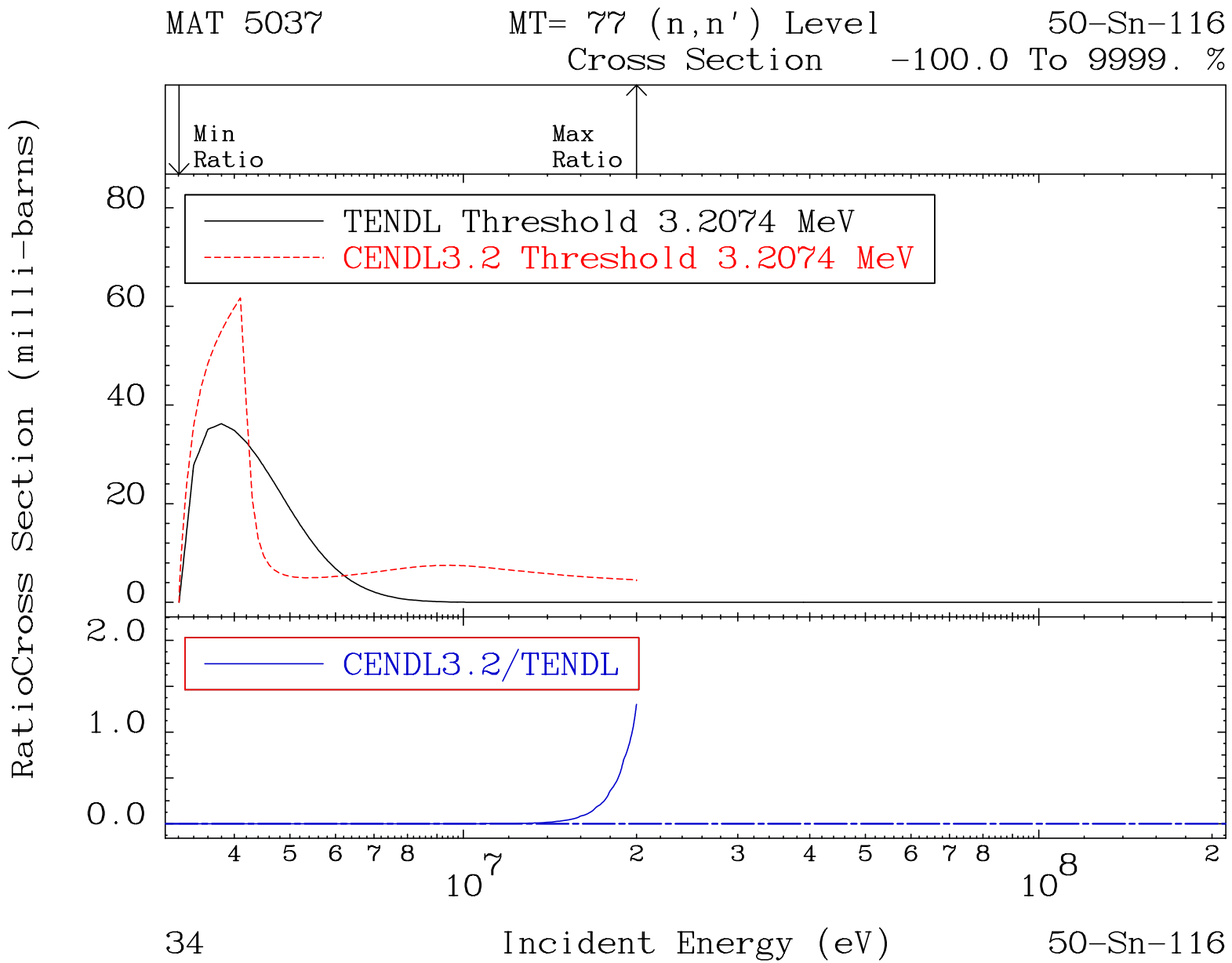

MAT 5037
MT= 72 (n,n') Level
50-Sn-116
Cross Section -99.98 To 79.71 %
Max Ratio
Min Ratio
TENDL Threshold 3.0729 MeV
CENDL3.2 Threshold 3.0729 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
$10^{0}$
$10^{-2}$
$10^{-4}$
3 4 5 6 7 8 $10^{7}$ 2 3 4 5 6 7 8 $10^{8}$ 2
29
Incident Energy (eV)
50-Sn-116

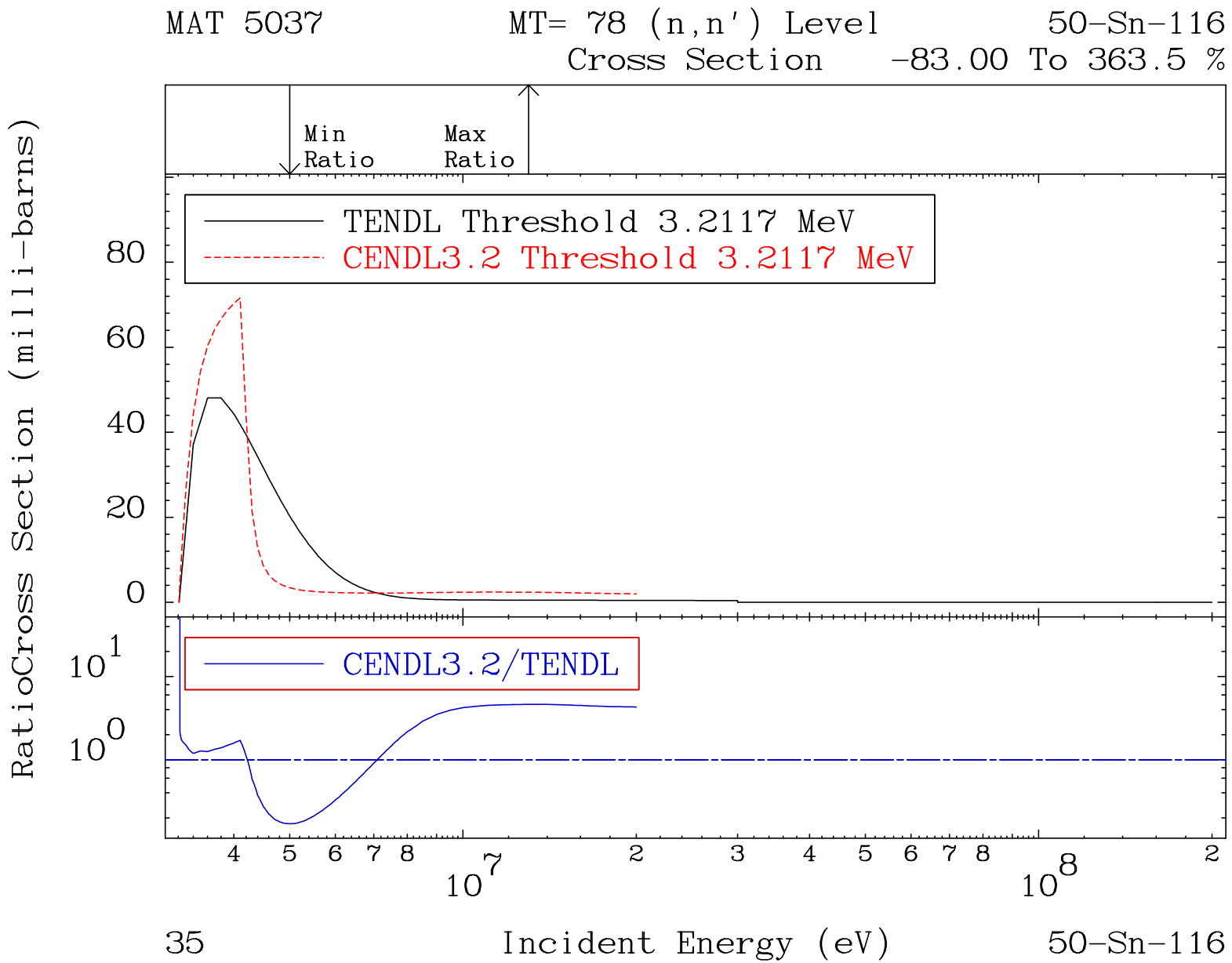

MAT 5037
MT= 73 (n,n') Level
50-Sn-116
Cross Section -78.59 To 340.2 %
Min Ratio
Max Ratio
TENDL Threshold 3.1155 MeV
CENDL3.2 Threshold 3.1155 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^1
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
50-Sn-116

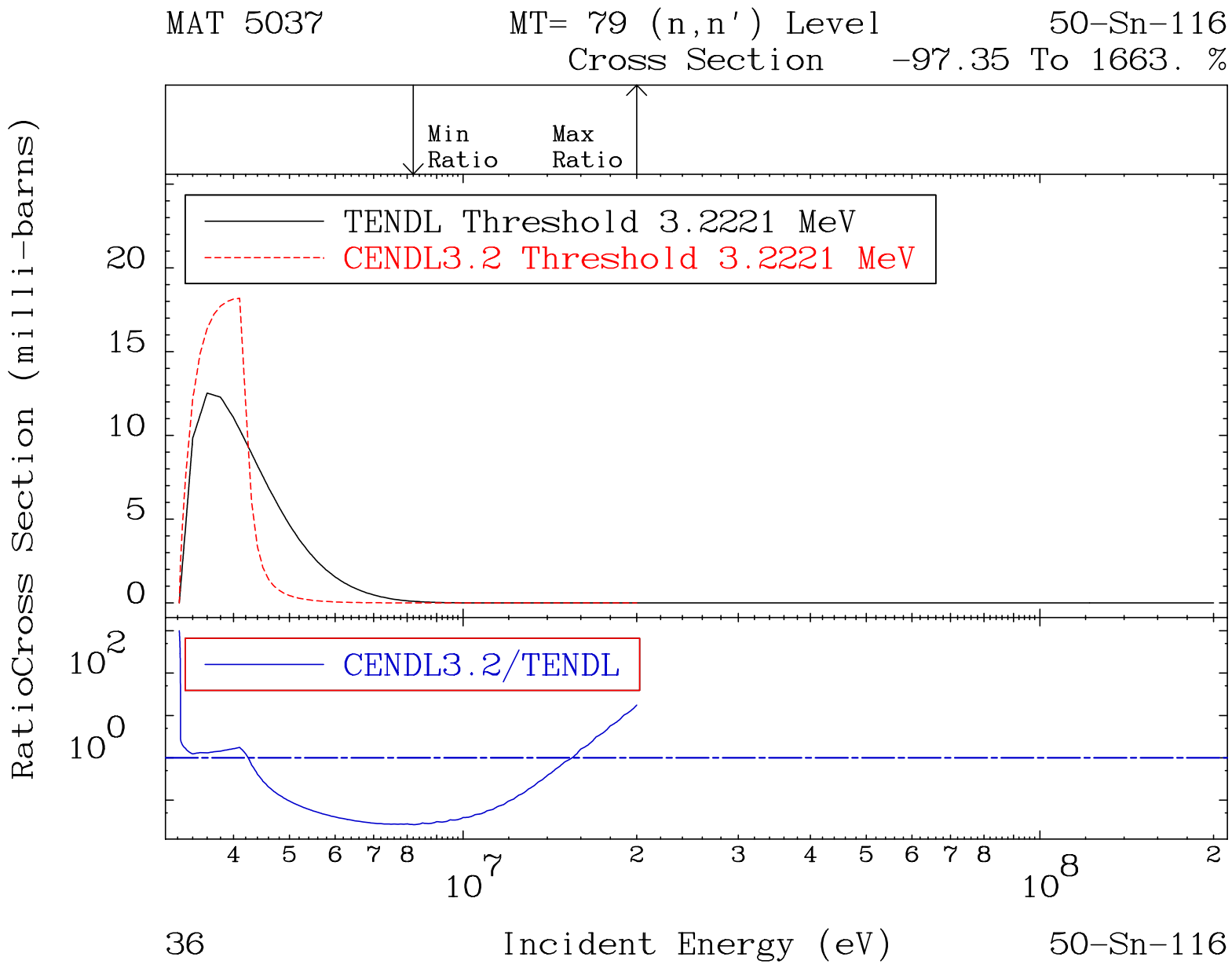

MAT 5037
MT= 74 (n,n') Level
50-Sn-116
Cross Section
-100.0 To 126.0 %
Max
Ratio
TENDL Threshold 3.1239 MeV
CENDL3.2 Threshold 3.1239 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
50-Sn-116

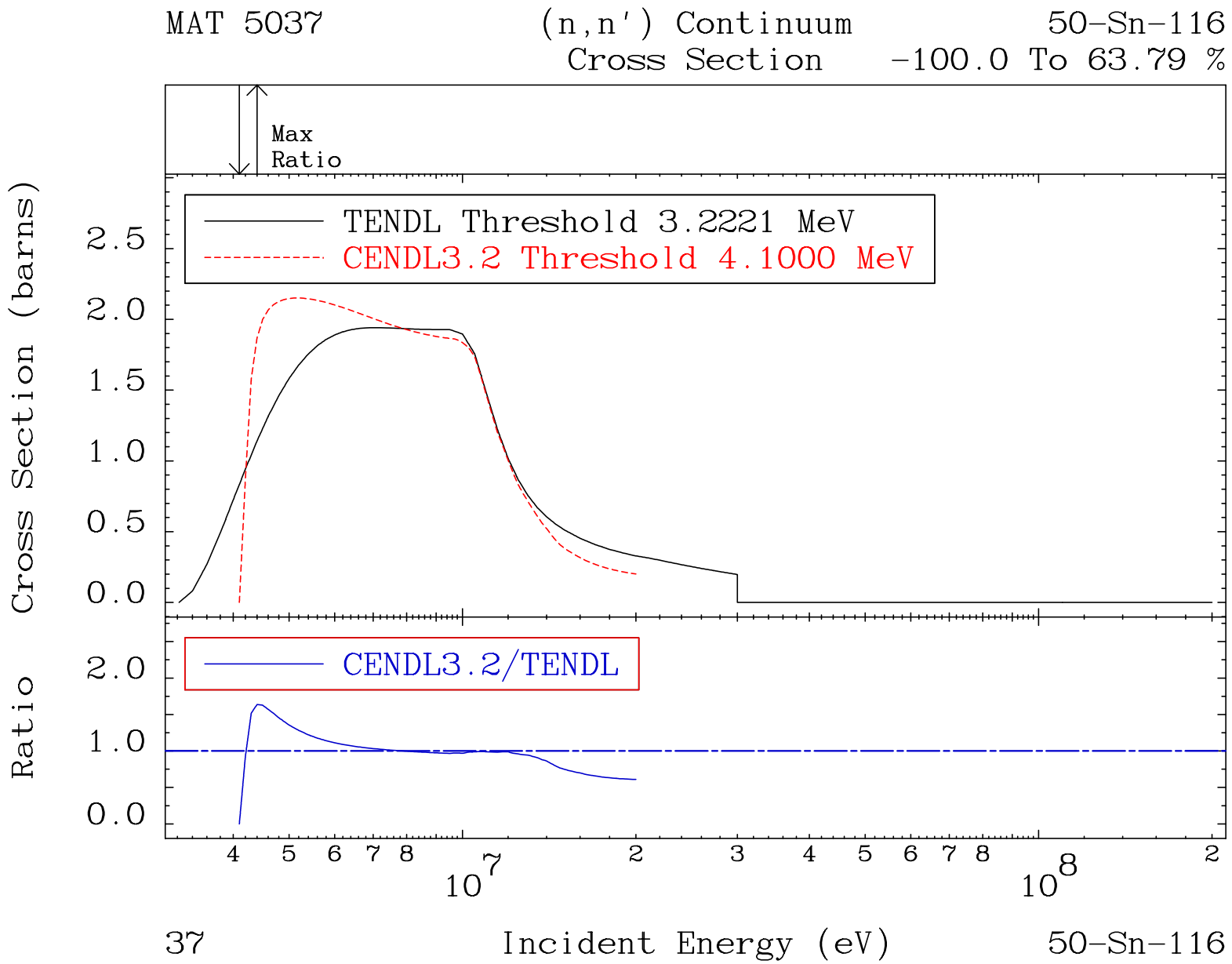

MAT 5037
MT= 75 (n,n') Level
50-Sn-116
Cross Section
-100.0 To 54.59 %
Max
Ratio
TENDL Threshold 3.1322 MeV
CENDL3.2 Threshold 3.1322 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
50-Sn-116

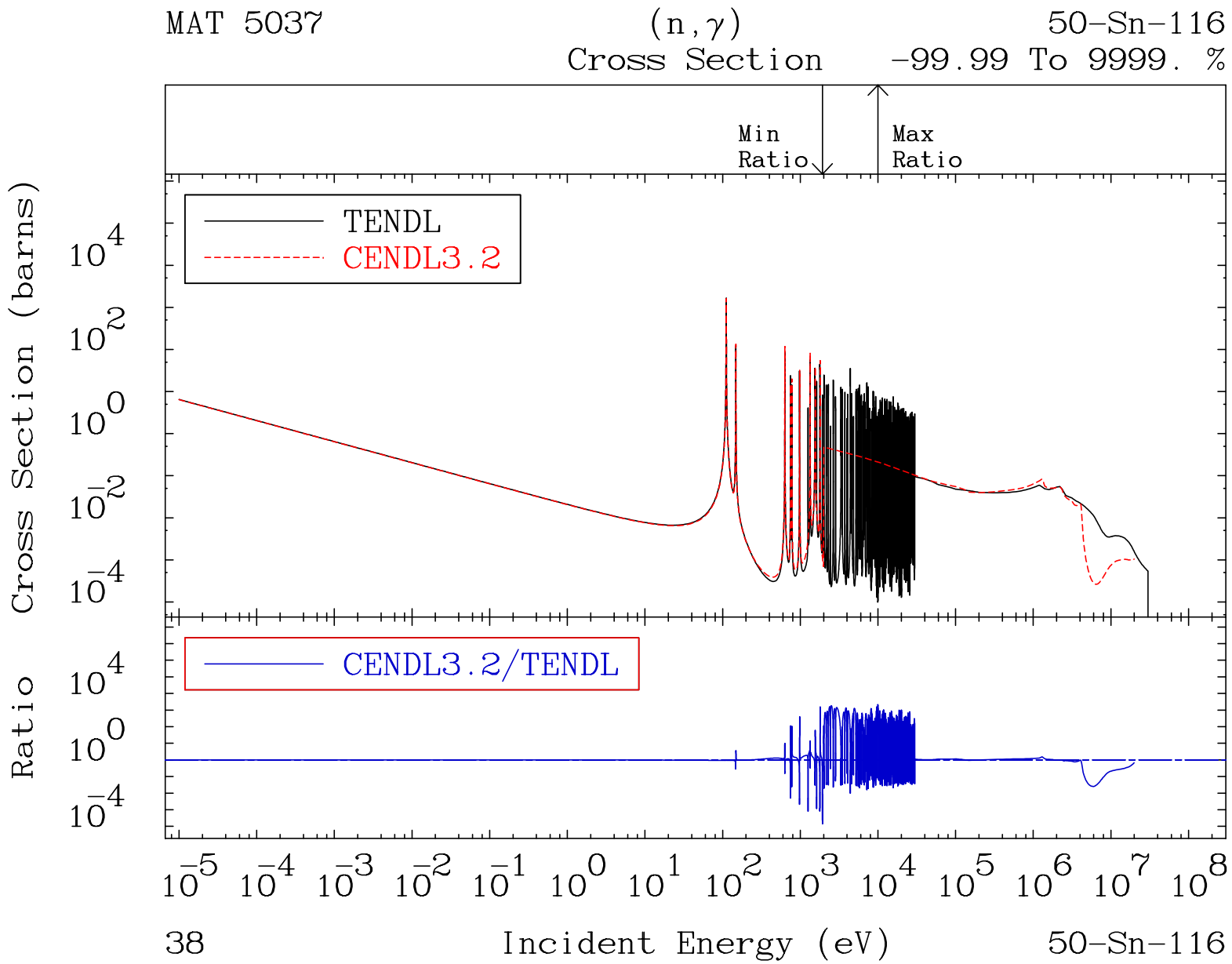

MAT 5037
MT= 76 (n,n') Level
50-Sn-116
Cross Section -81.24 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.1852 MeV
CENDL3.2 Threshold 3.1852 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^6
10^3
10^0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
50-Sn-116

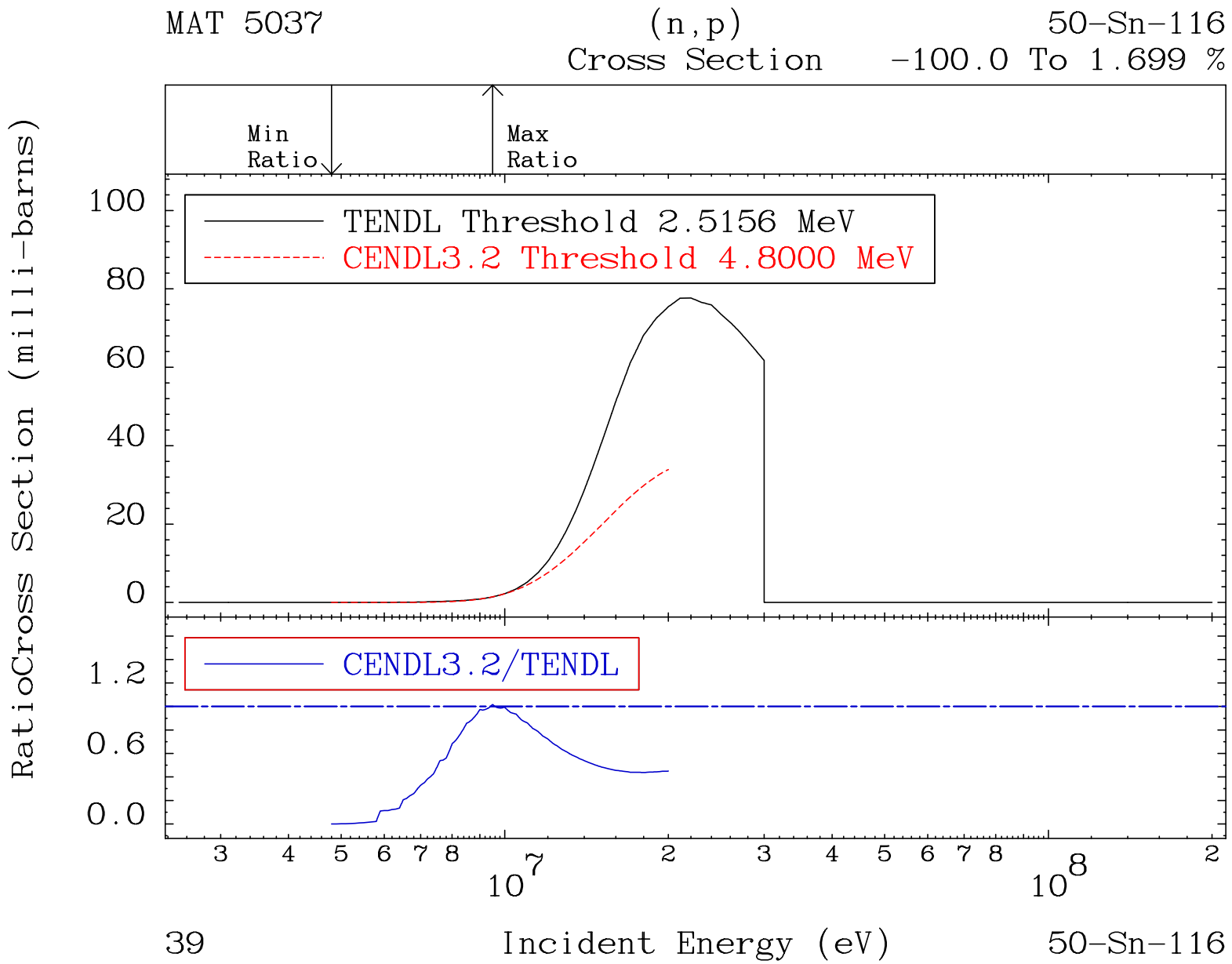

MAT 5037
MT= 77 (n,n') Level
50-Sn-116
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.2074 MeV
CENDL3.2 Threshold 3.2074 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
50-Sn-116

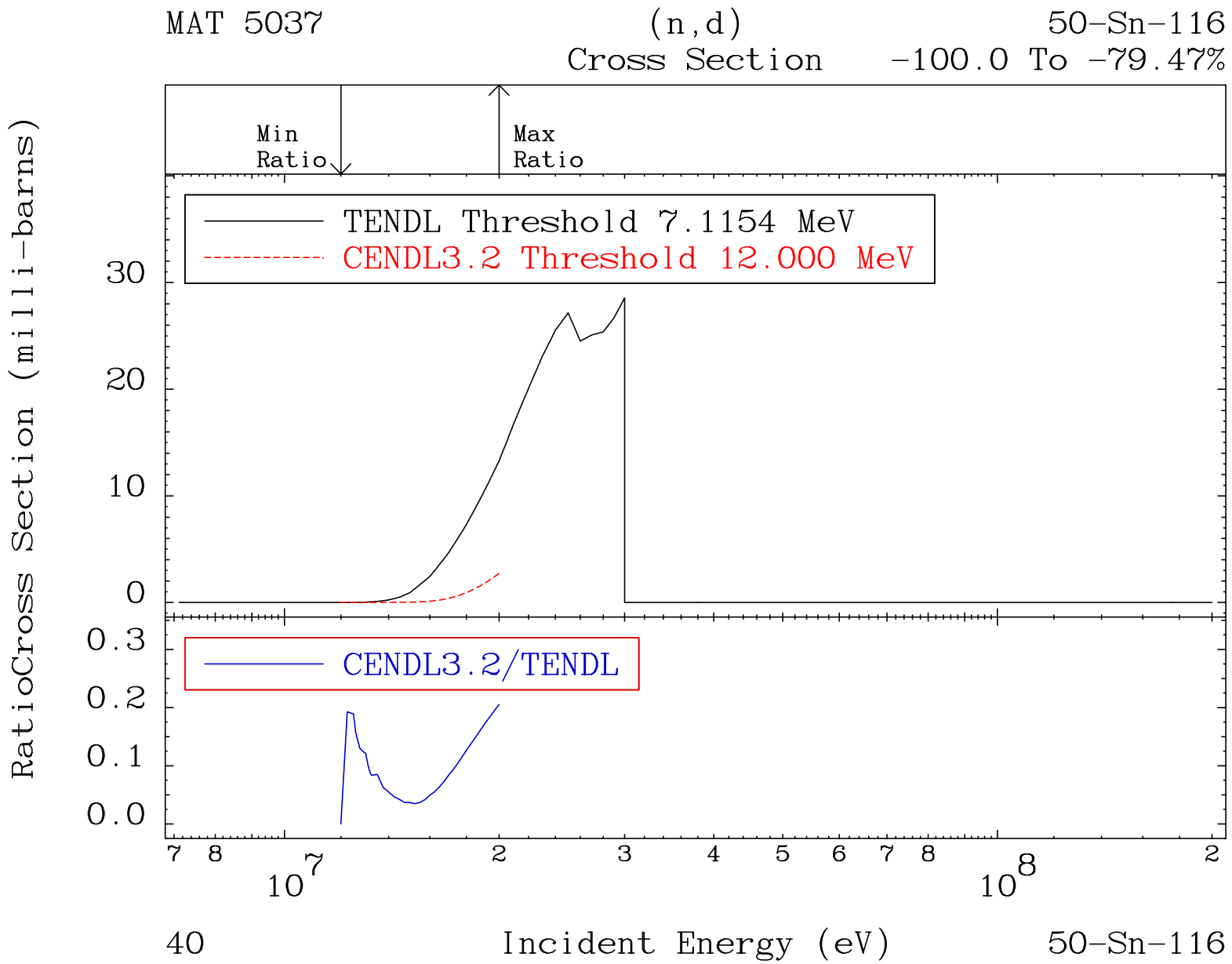

MAT 5037
MT= 78 (n,n') Level
50-Sn-116
Cross Section
-83.00 To 363.5 %
Min Ratio
Max Ratio
TENDL Threshold 3.2117 MeV
CENDL3.2 Threshold 3.2117 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^1
10^0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
50-Sn-116

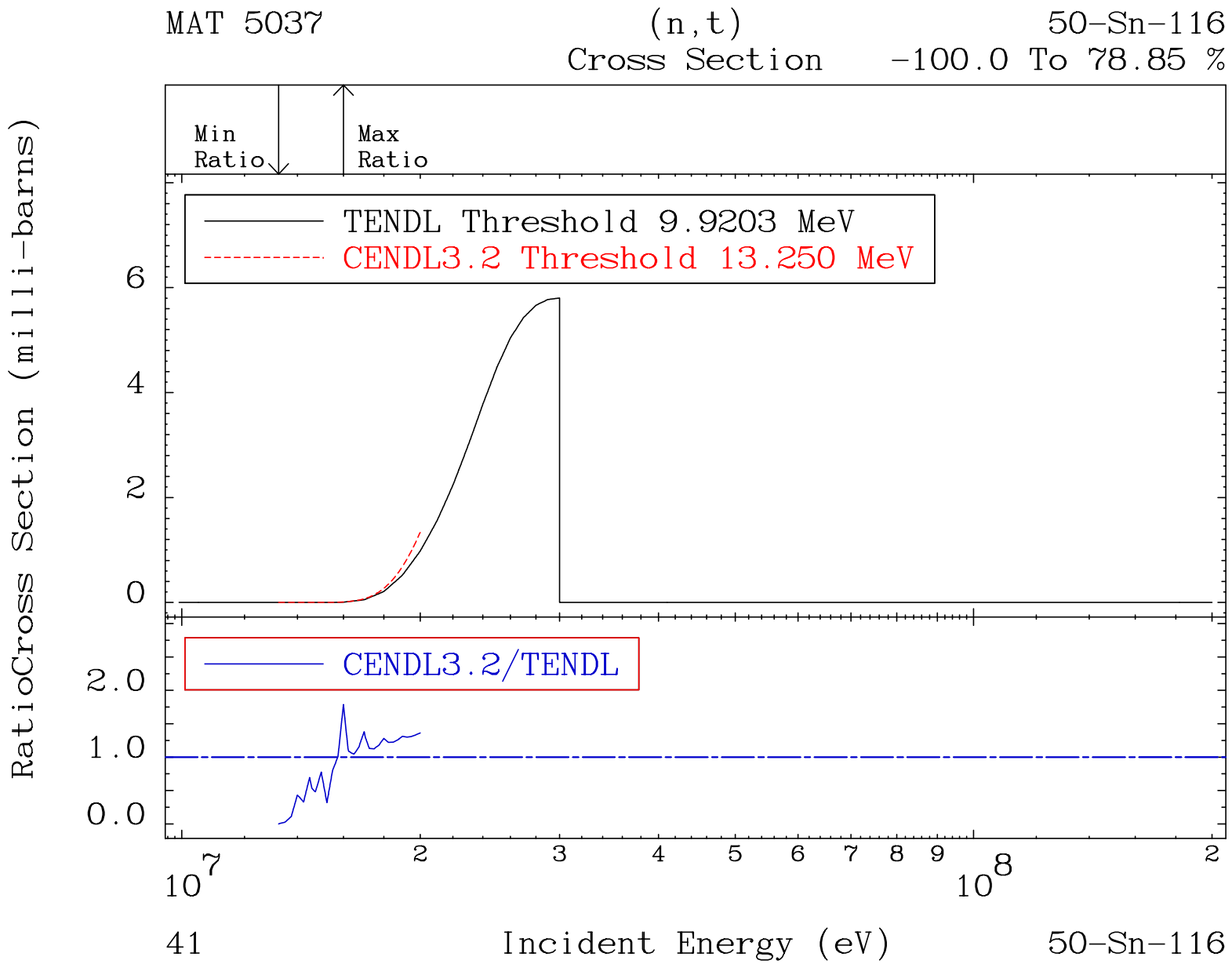

MAT 5037
MT= 79 (n,n') Level
50-Sn-116
Cross Section -97.35 To 1663. %
Min Ratio
Max Ratio
TENDL Threshold 3.2221 MeV
CENDL3.2 Threshold 3.2221 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
10^2
10^0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
50-Sn-116

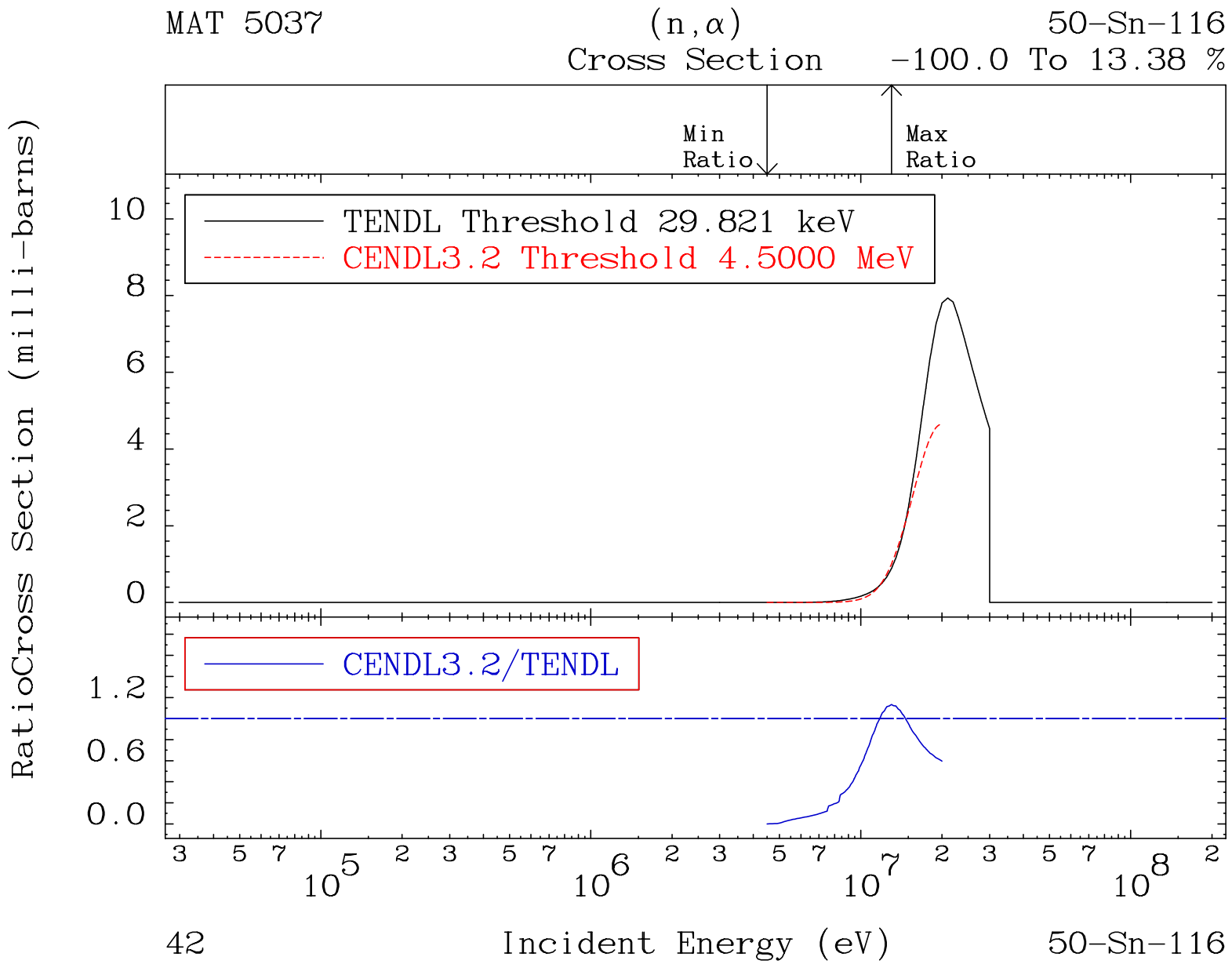

MAT 5037
(n,n') Continuum
Cross Section
50-Sn-116
-100.0 To 63.79 %
Max
Ratio
TENDL Threshold 3.2221 MeV
CENDL3.2 Threshold 4.1000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
37
Incident Energy (eV)
50-Sn-116

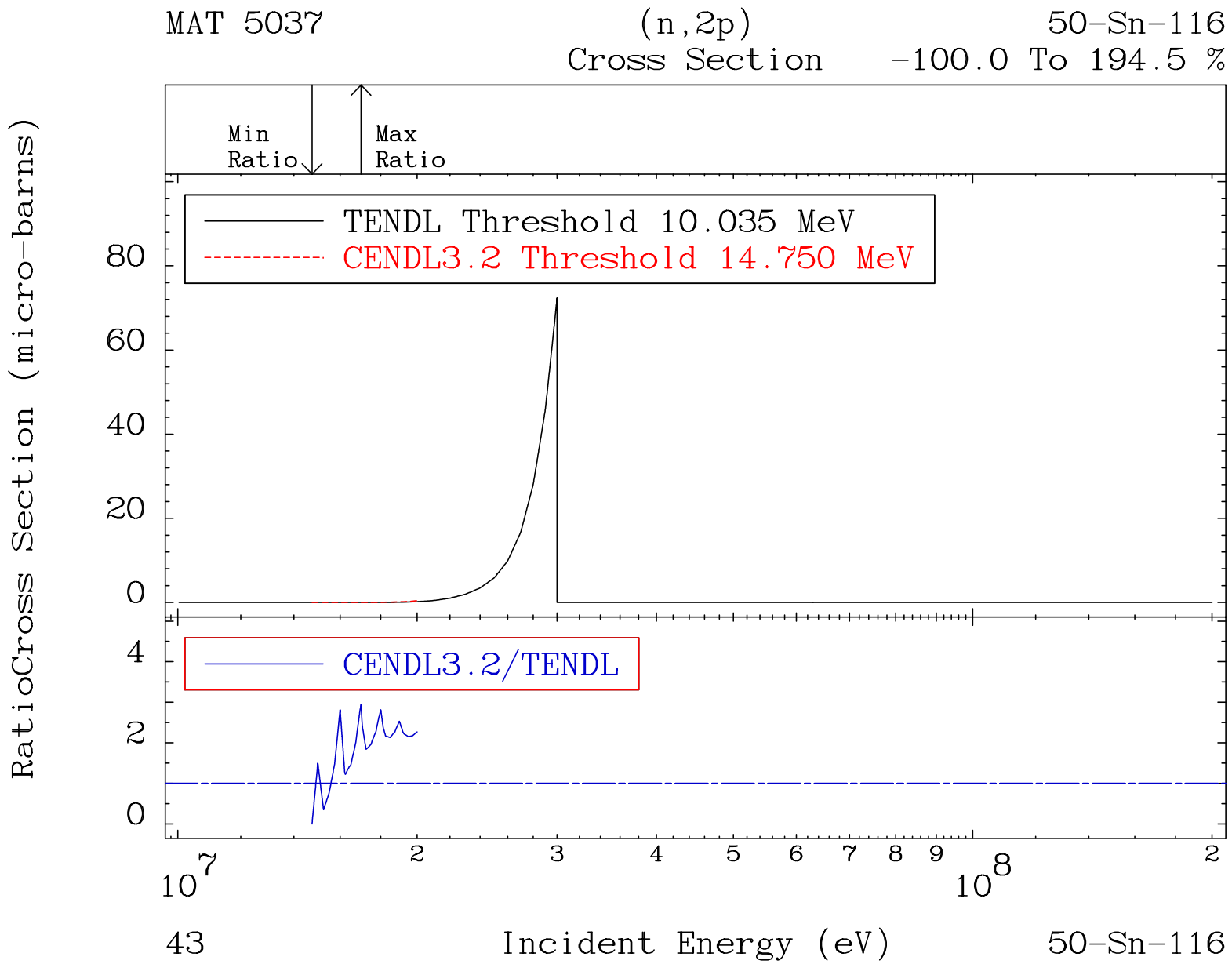

MAT 5037
(n,γ)
Cross Section
50-Sn-116
-99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
50-Sn-116

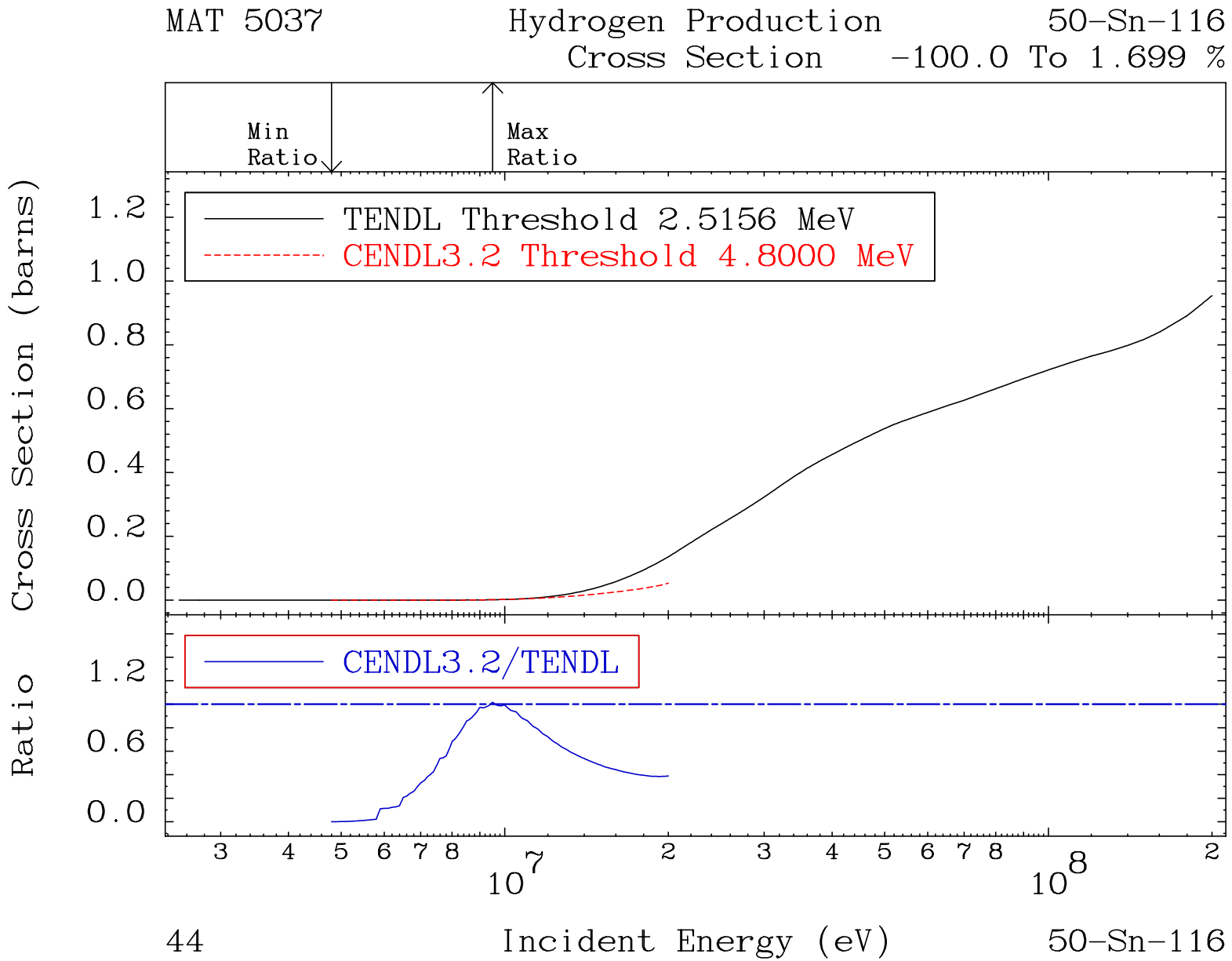

MAT 5037
(n,p)
50-Sn-116
Cross Section
-100.0 To 1.699 %
Min Ratio
Max Ratio
TENDL Threshold 2.5156 MeV
CENDL3.2 Threshold 4.8000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
39
Incident Energy (eV)
50-Sn-116

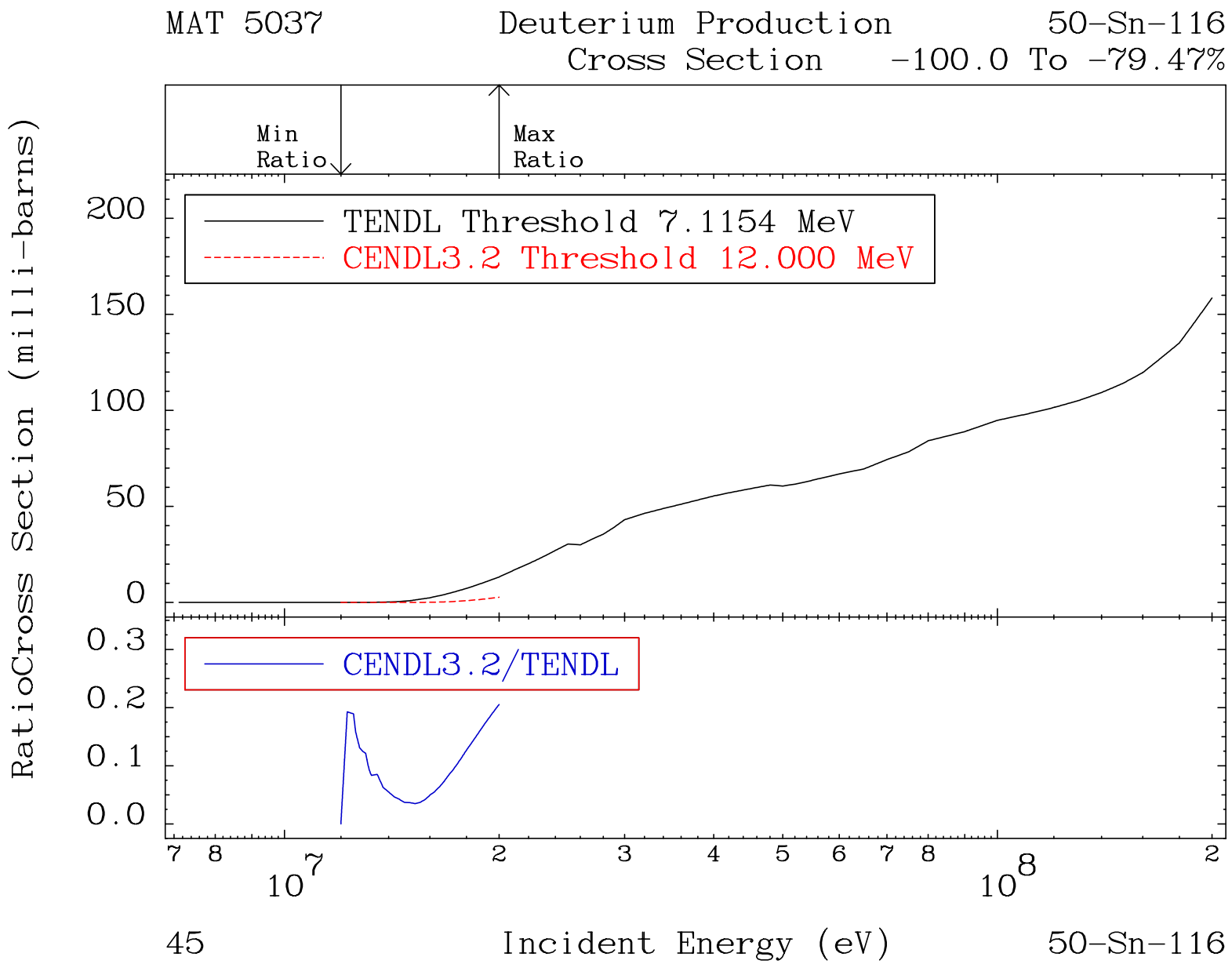

MAT 5037
(n,d)
Cross Section
50-Sn-116
-100.0 To -79.47%
Min Ratio
Max Ratio
TENDL Threshold 7.1154 MeV
CENDL3.2 Threshold 12.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
20
10
0
0.3
0.2
0.1
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
40
Incident Energy (eV)
50-Sn-116

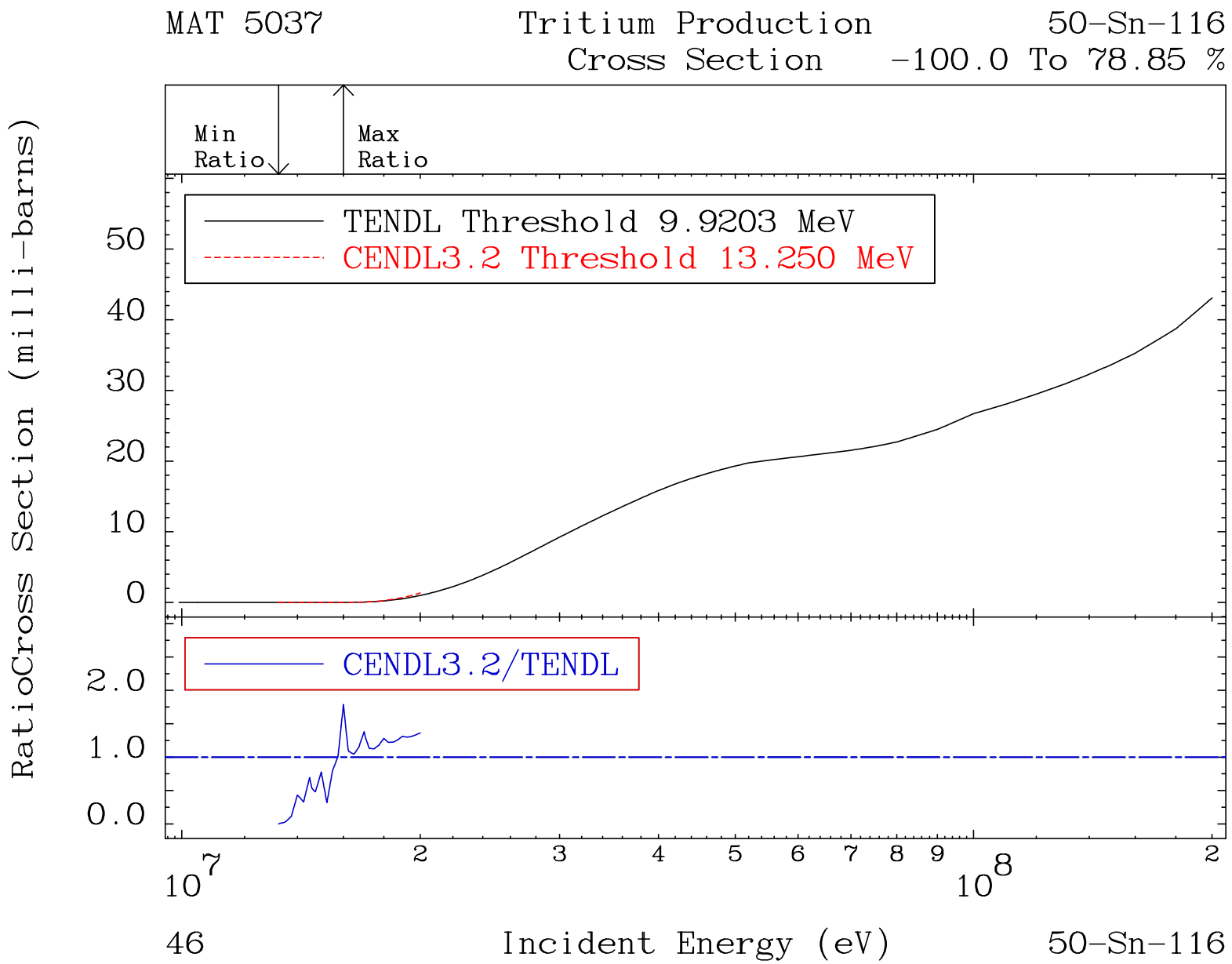

MAT 5037
(n,t)
Cross Section
50-Sn-116
-100.0 To 78.85 %
Min Ratio
Max Ratio
TENDL Threshold 9.9203 MeV
CENDL3.2 Threshold 13.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
0
2
4
6
0.0
1.0
2.0
10^7
10^8
2
3
4
5
6
7
8
9
Incident Energy (eV)
41
50-Sn-116

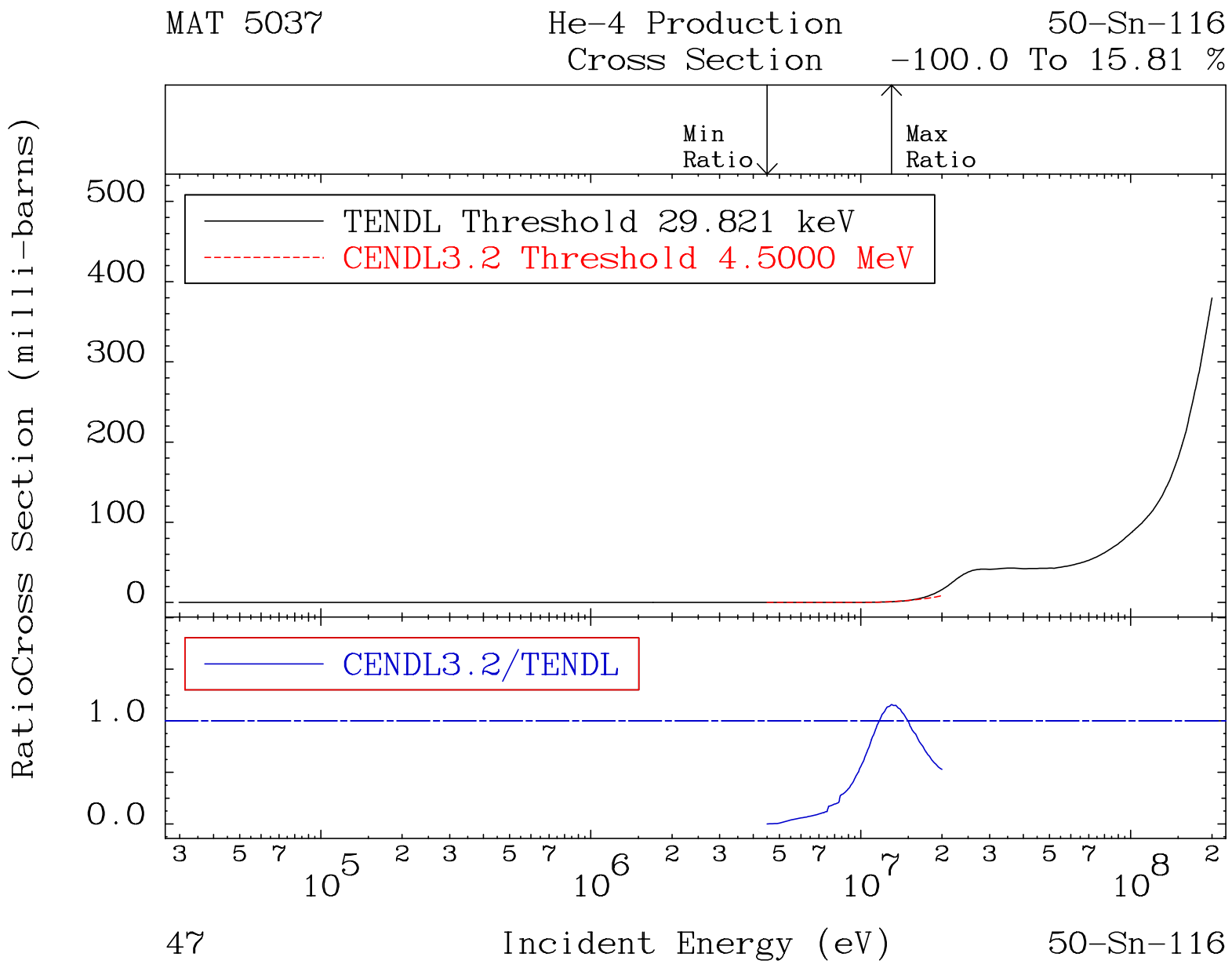

MAT 5037
(n,α)
Cross Section
50-Sn-116
-100.0 To 13.38 %
Min Ratio
Max Ratio
TENDL Threshold 29.821 keV
CENDL3.2 Threshold 4.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
1.2
0.6
0.0
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
42
Incident Energy (eV)
50-Sn-116

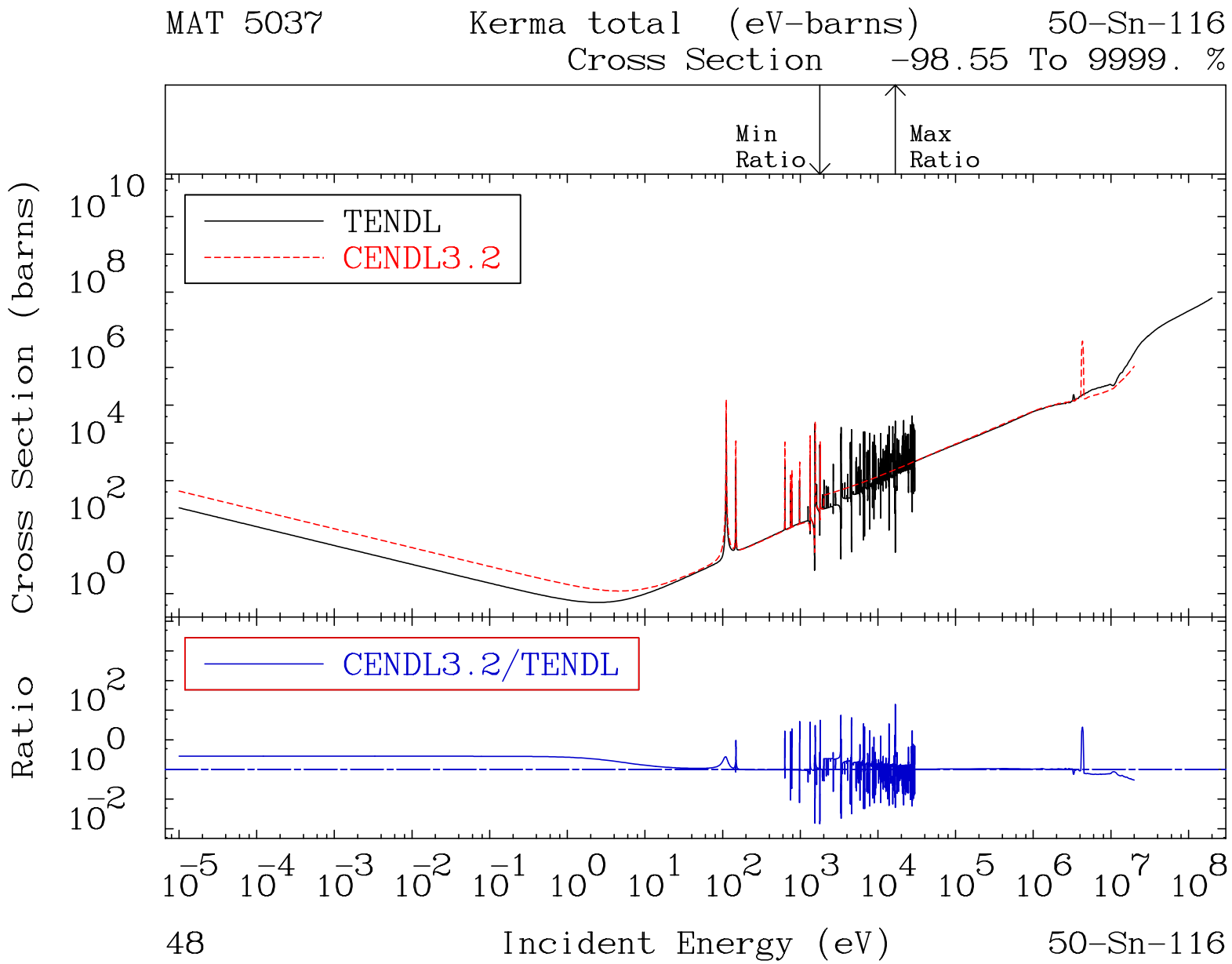

MAT 5037
(n,2p)
50-Sn-116
Cross Section
-100.0 To 194.5 %
Min Ratio
Max Ratio
TENDL Threshold 10.035 MeV
CENDL3.2 Threshold 14.750 MeV
CENDL3.2/TENDL
RatioCross Section (micro-barns)
80
60
40
20
0
4
2
0
10^7
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
50-Sn-116

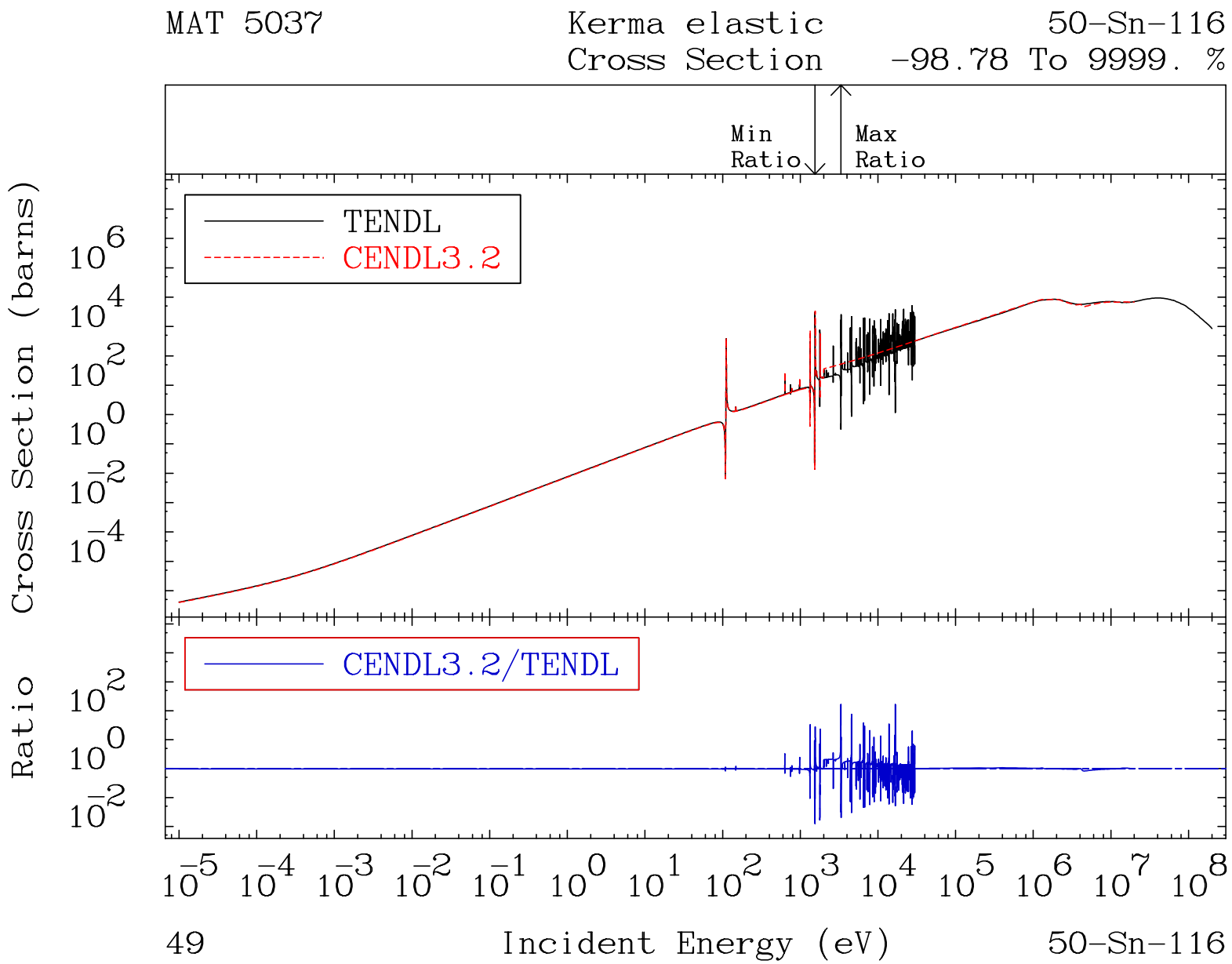

MAT 5037
Hydrogen Production
50-Sn-116
Cross Section -100.0 To 1.699 %
Min Ratio
Max Ratio
TENDL Threshold 2.5156 MeV
CENDL3.2 Threshold 4.8000 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
CENDL3.2/TENDL
Ratio
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
44
Incident Energy (eV)
50-Sn-116

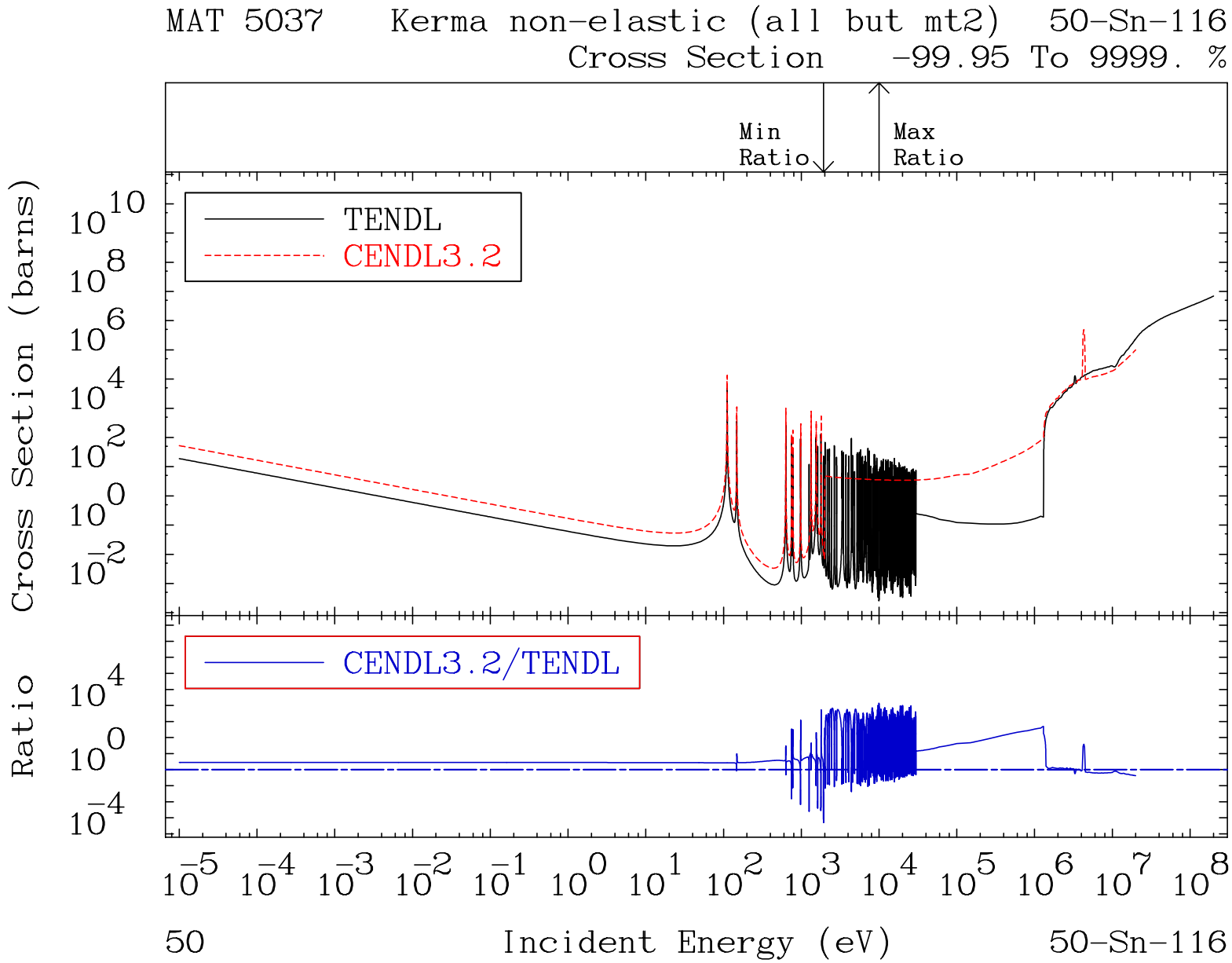

MAT 5037
Deuterium Production
50-Sn-116
Cross Section
-100.0 To -79.47%
Min Ratio
Max Ratio
TENDL Threshold 7.1154 MeV
CENDL3.2 Threshold 12.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
0.3
0.2
0.1
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
45
Incident Energy (eV)
50-Sn-116

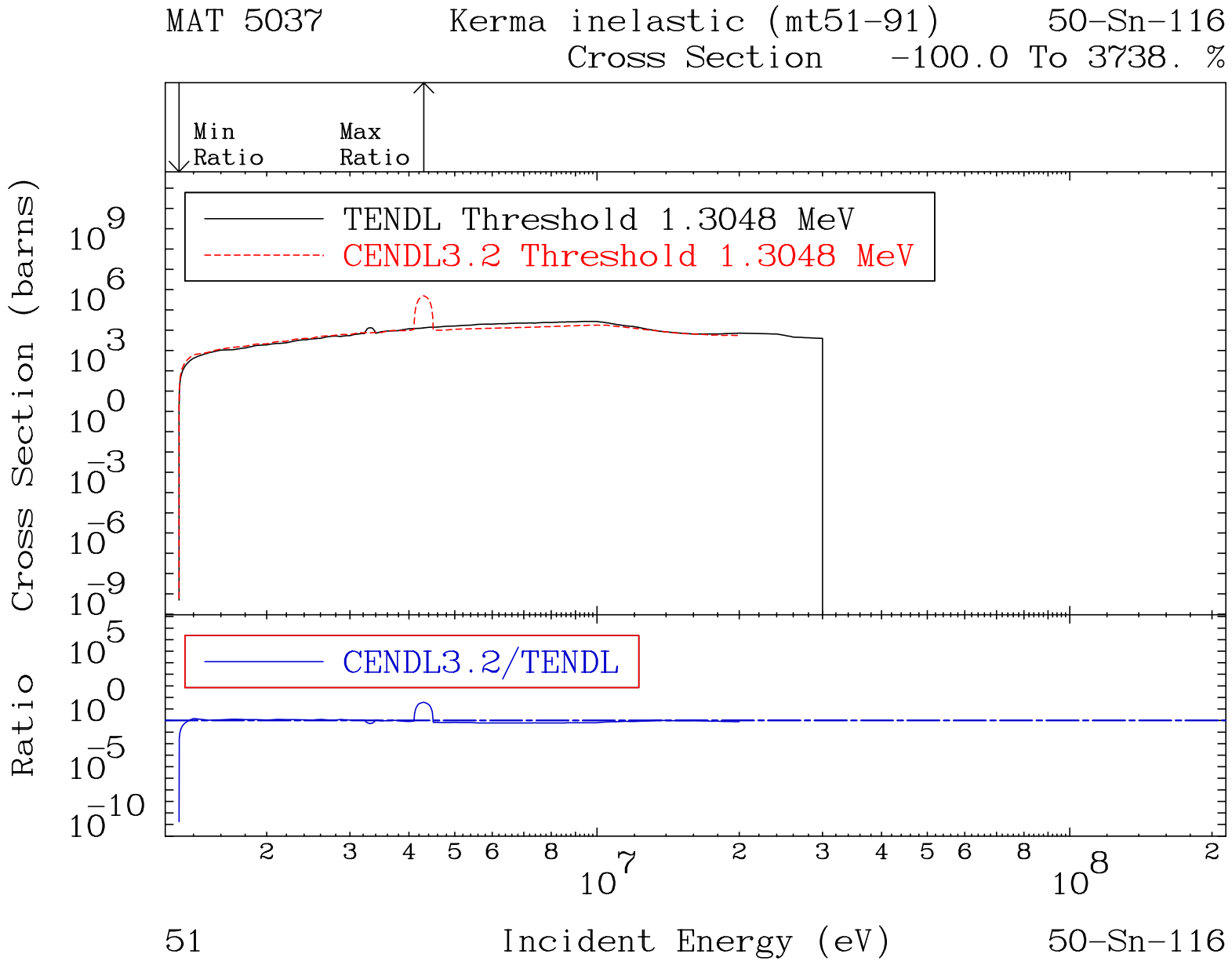

MAT 5037
Tritium Production
50-Sn-116
Cross Section
-100.0 To 78.85 %
Min Ratio
Max Ratio
TENDL Threshold 9.9203 MeV
CENDL3.2 Threshold 13.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
50-Sn-116

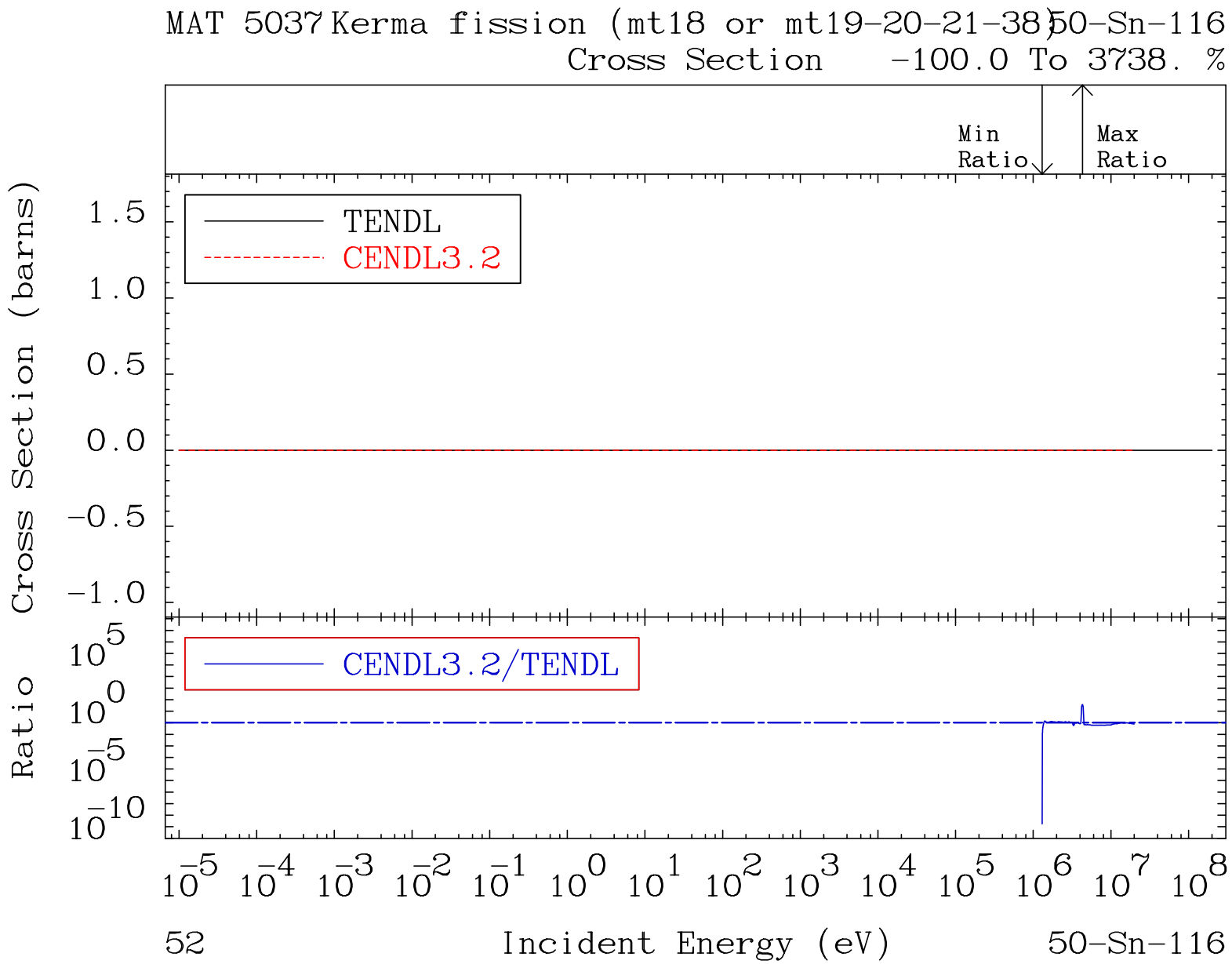

MAT 5037
He-4 Production
Cross Section
50-Sn-116
-100.0 To 15.81 %
Min Ratio
Max Ratio
TENDL Threshold 29.821 keV
CENDL3.2 Threshold 4.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
1.0
0.0
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
47
Incident Energy (eV)
50-Sn-116

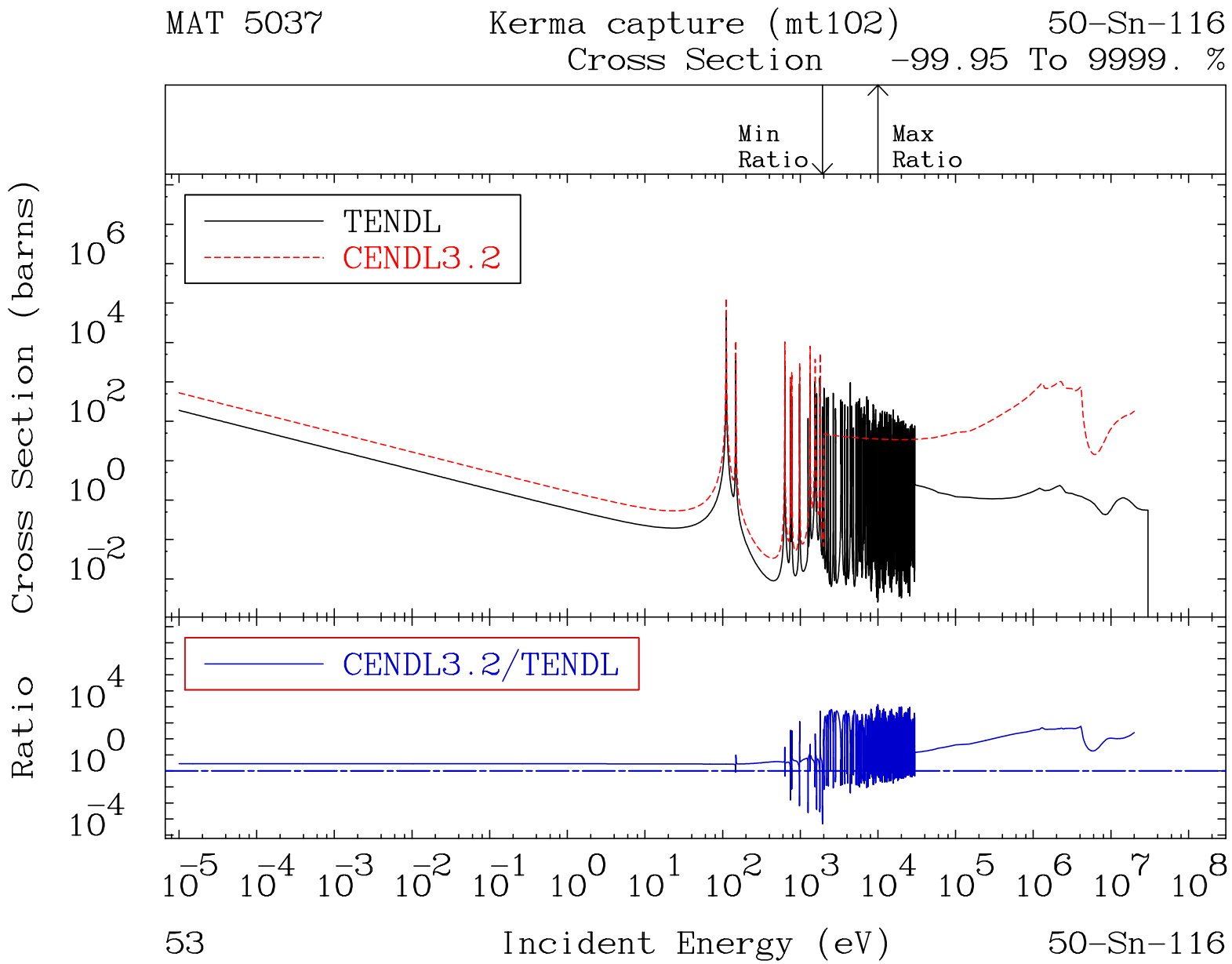

MAT 5037
Kerma total (eV-barns)
50-Sn-116
Cross Section -98.55 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
50-Sn-116

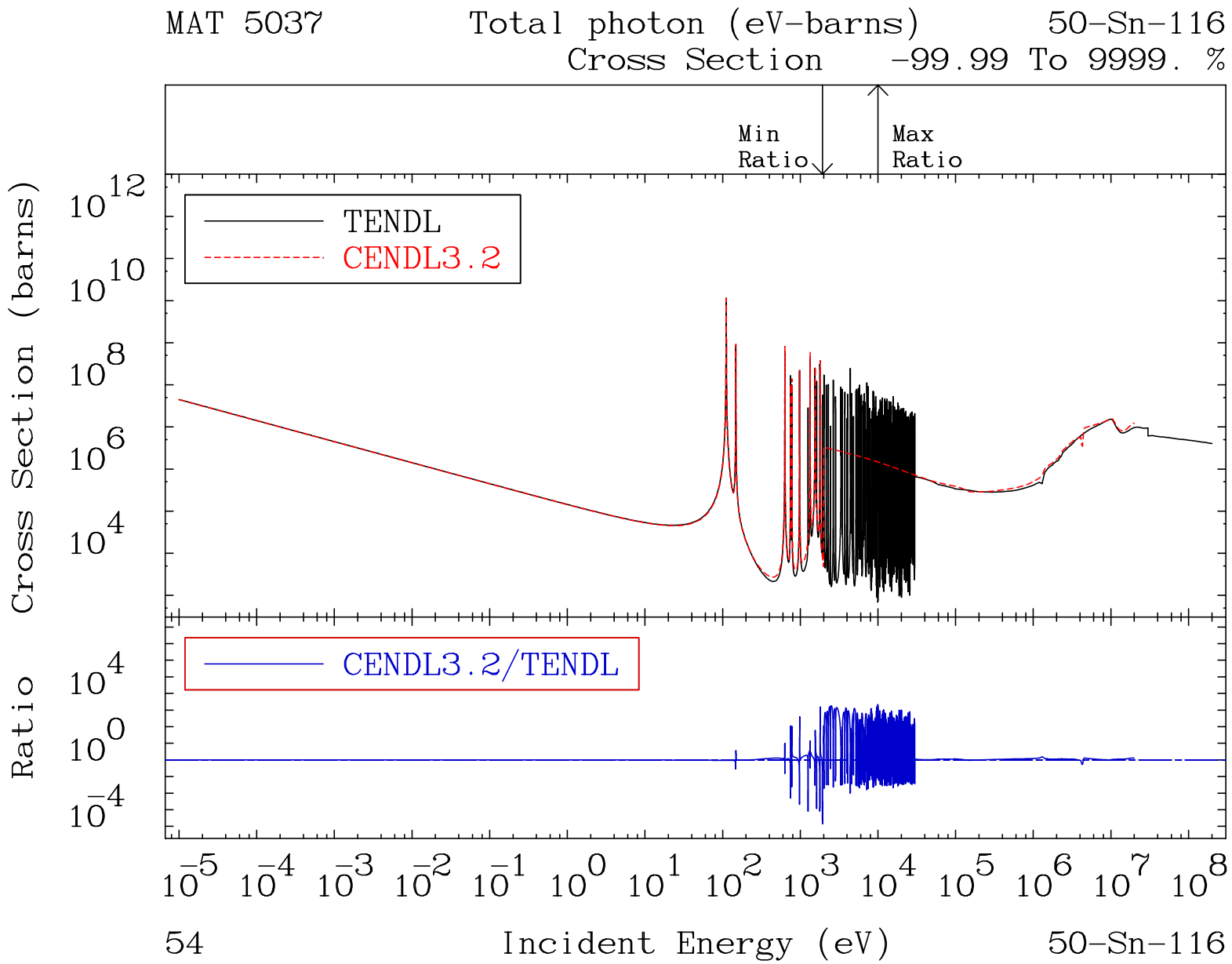

MAT 5037
Kerma elastic
Cross Section
50-Sn-116
-98.78 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
50-Sn-116

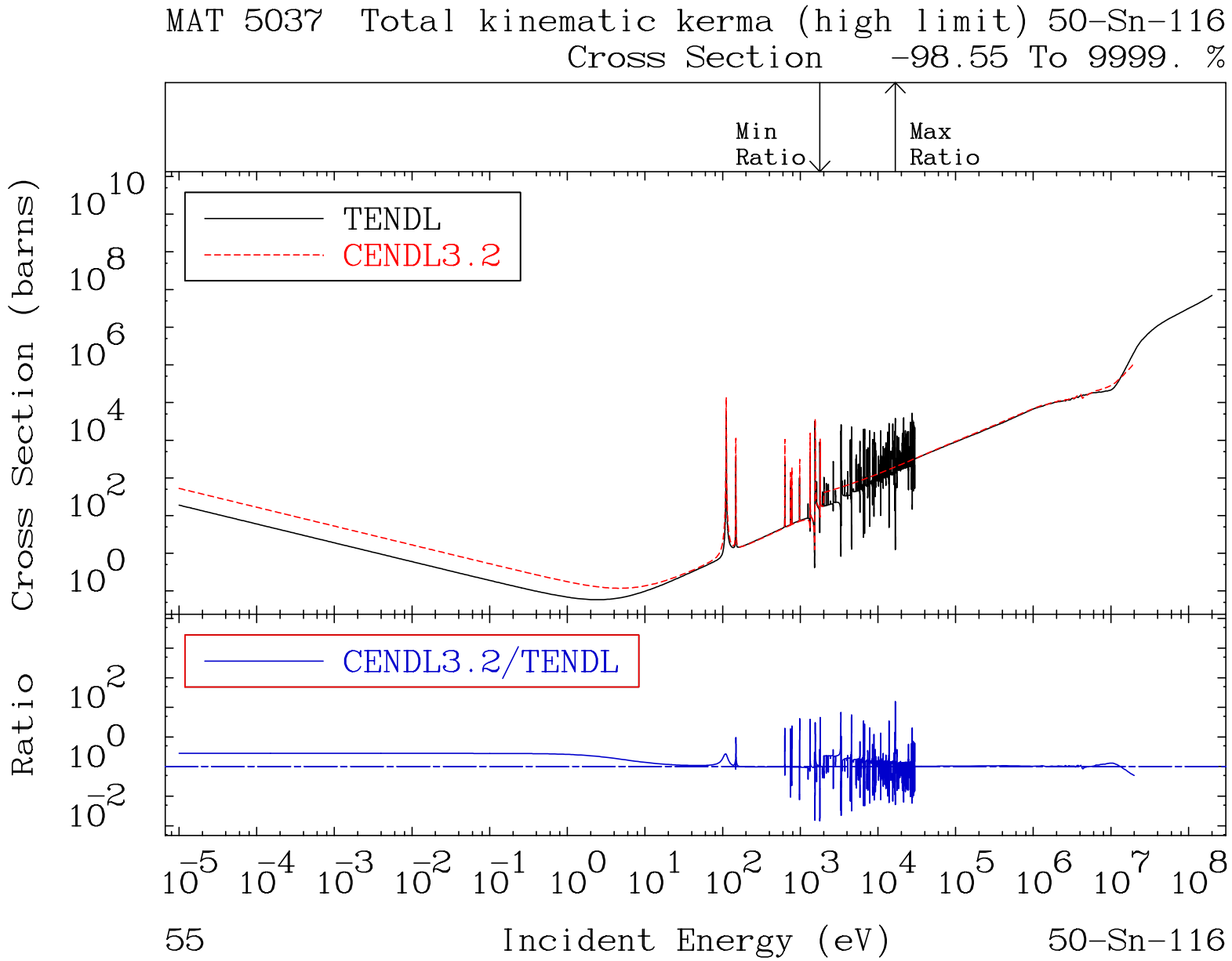

MAT 5037 Kerma non-elastic (all but mt2) 50-Sn-116
Cross Section -99.95 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
50
50-Sn-116

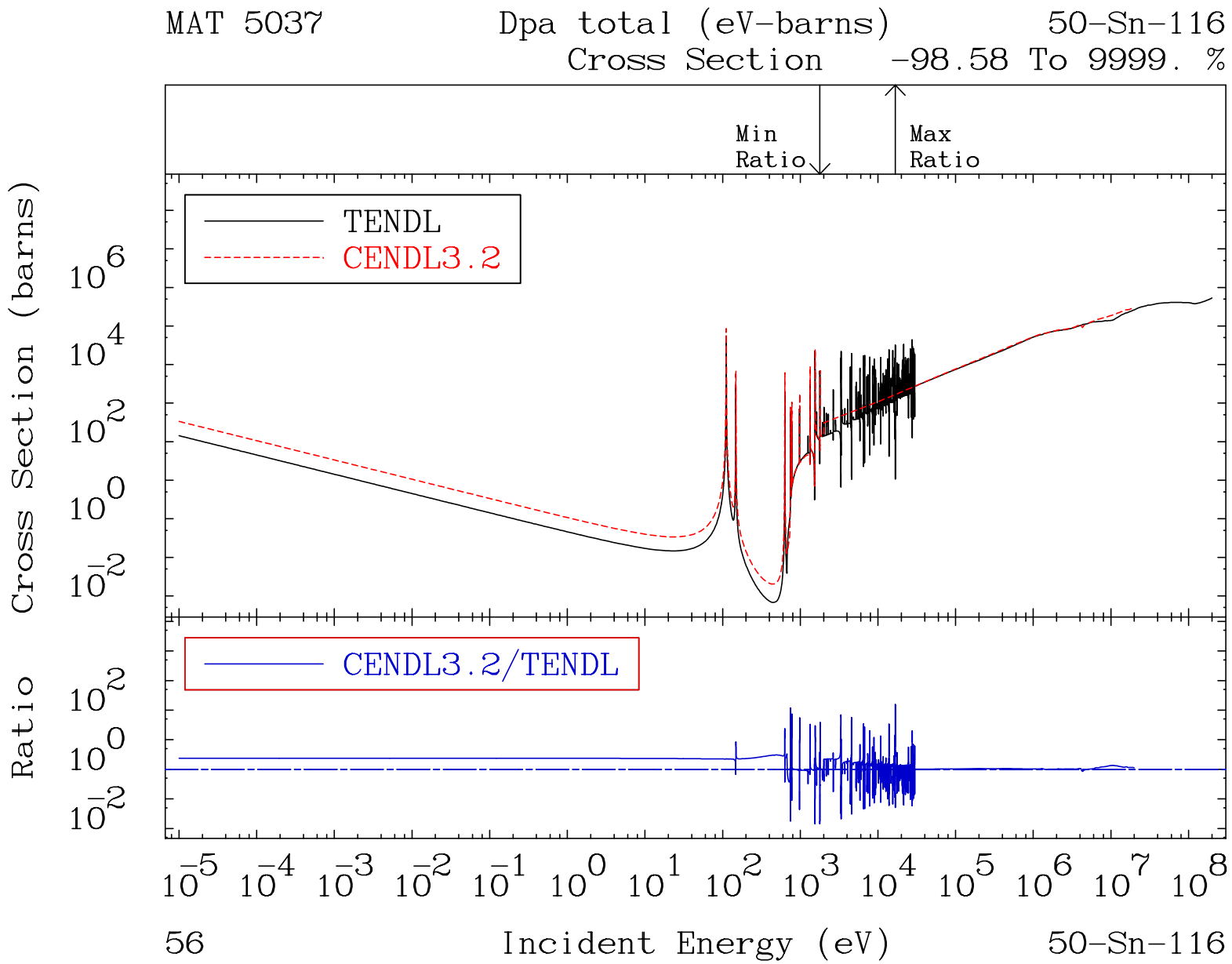

MAT 5037
Kerma inelastic (mt51-91)
50-Sn-116
Cross Section -100.0 To 3738. %
Min Ratio
Max Ratio
TENDL Threshold 1.3048 MeV
CENDL3.2 Threshold 1.3048 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
50-Sn-116

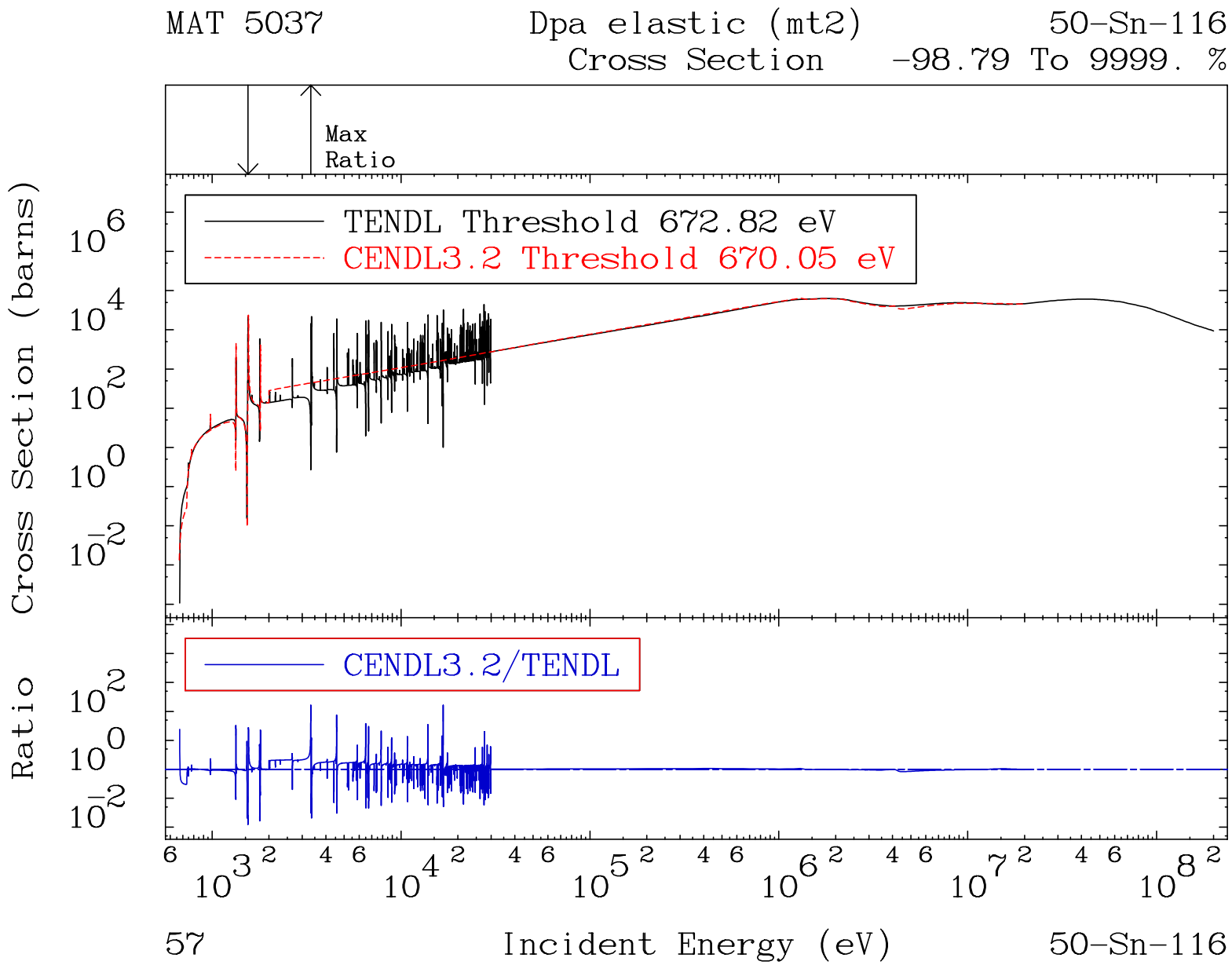

MAT 5037 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-116
Cross Section -100.0 To 3738. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
$10^{5}$
$10^{0}$
$10^{-5}$
$10^{-10}$
$10^{-5}$ $10^{-4}$ $10^{-3}$ $10^{-2}$ $10^{-1}$ $10^{0}$ $10^{1}$ $10^{2}$ $10^{3}$ $10^{4}$ $10^{5}$ $10^{6}$ $10^{7}$ $10^{8}$
52
Incident Energy (eV)
50-Sn-116

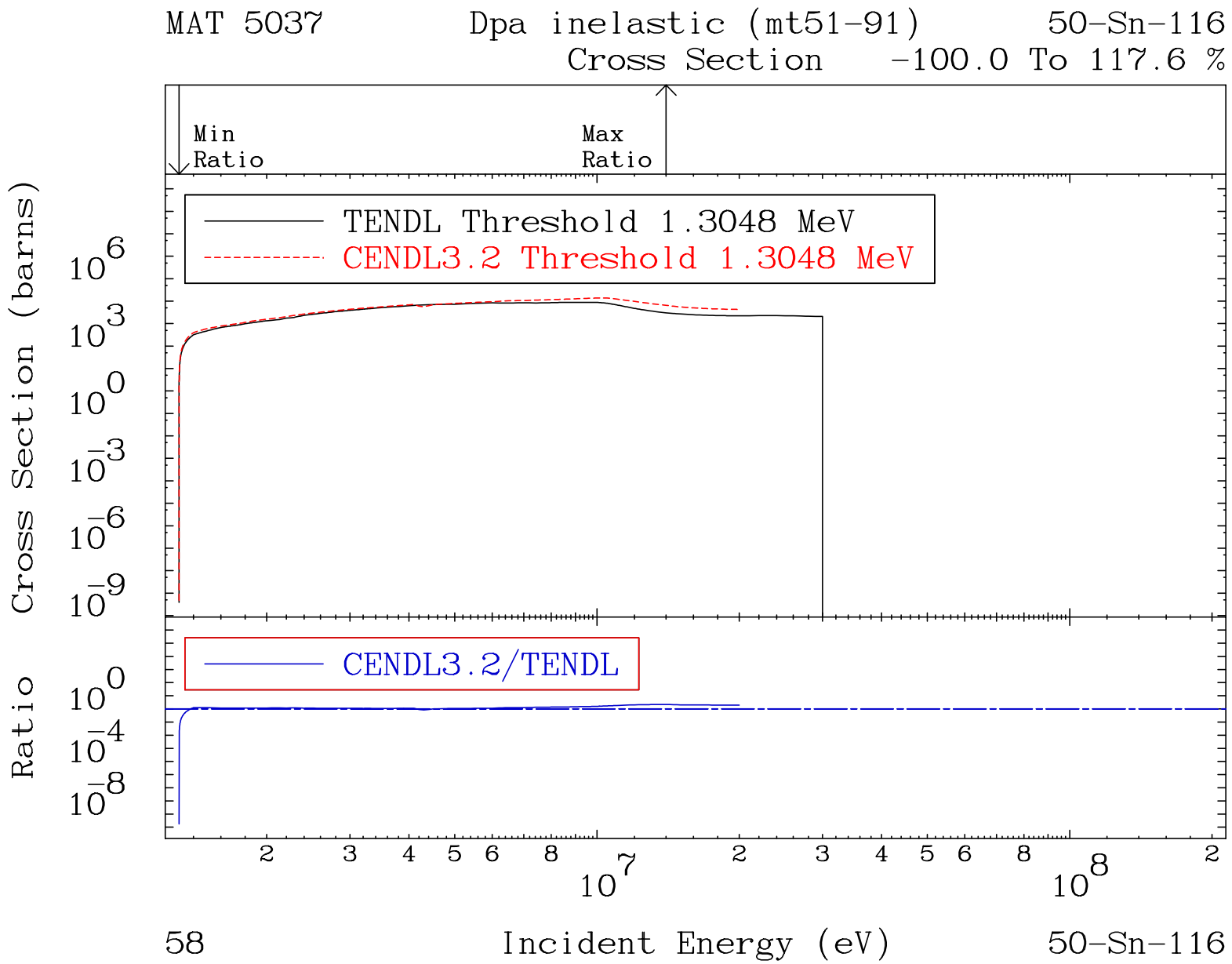

MAT 5037
Kerma capture (mt102)
50-Sn-116
Cross Section
-99.95 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
50-Sn-116

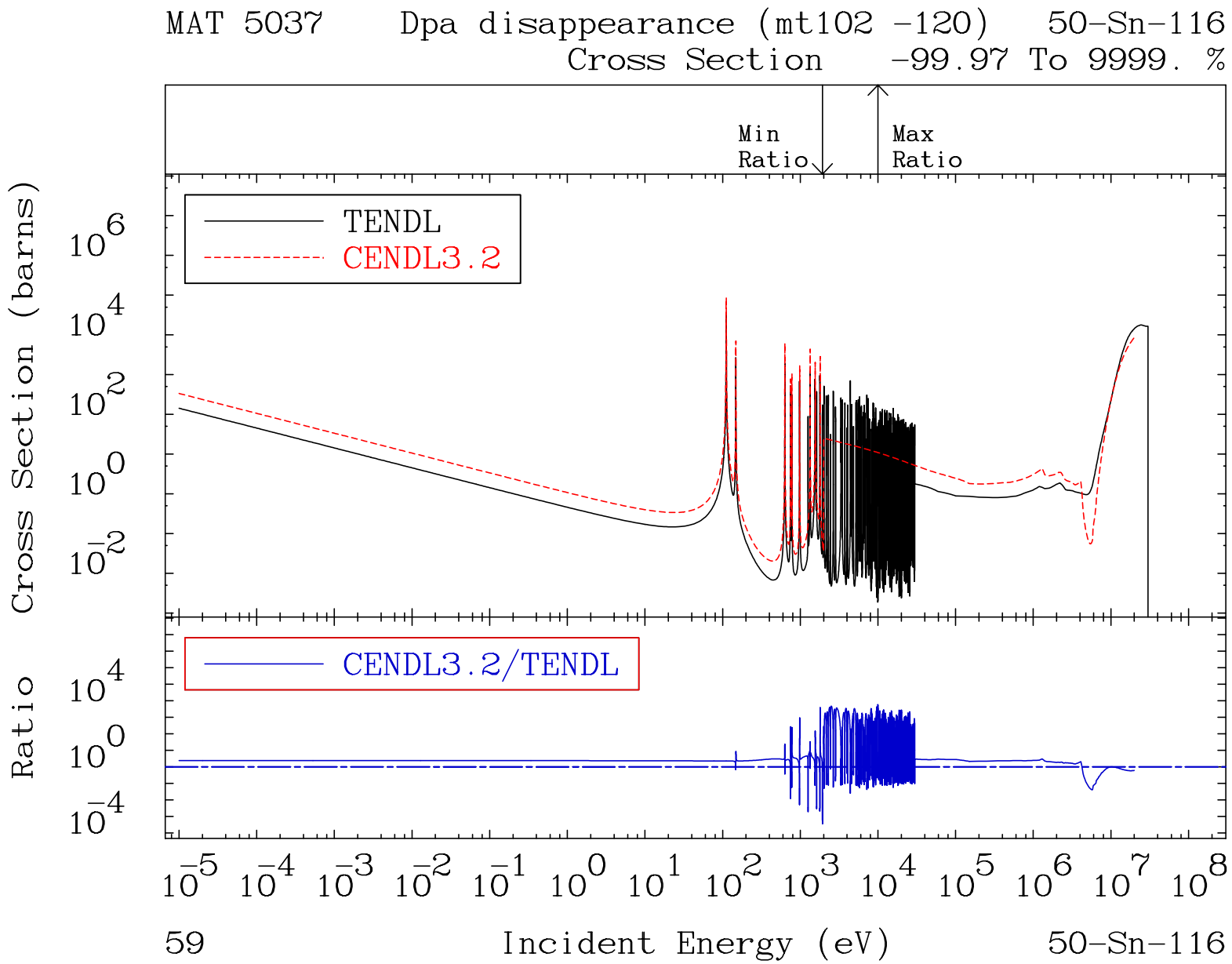

MAT 5037
Total photon (eV-barns)
50-Sn-116
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
50-Sn-116

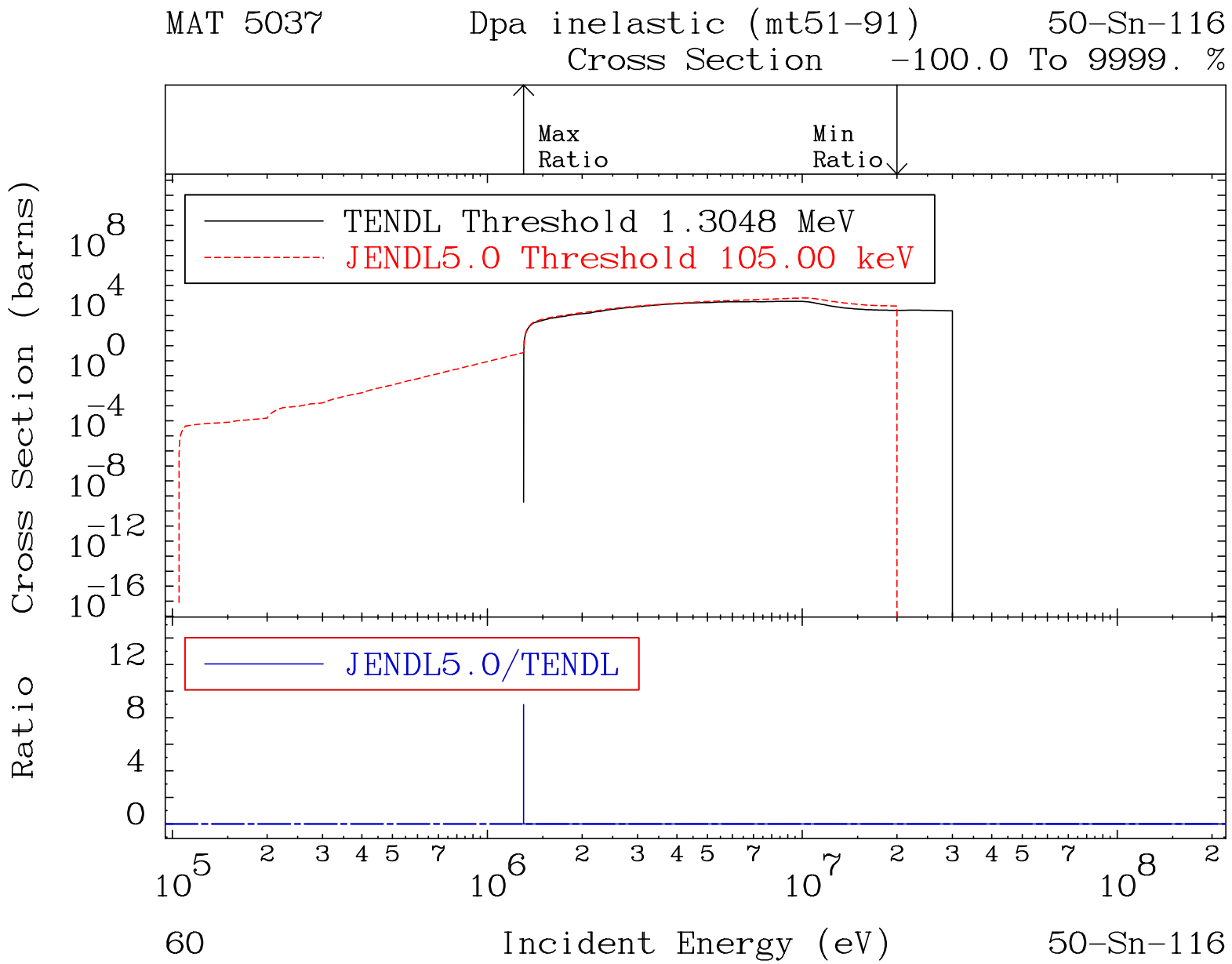

MAT 5037 Total kinematic kerma (high limit) 50-Sn-116
Cross Section -98.55 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
55
50-Sn-116

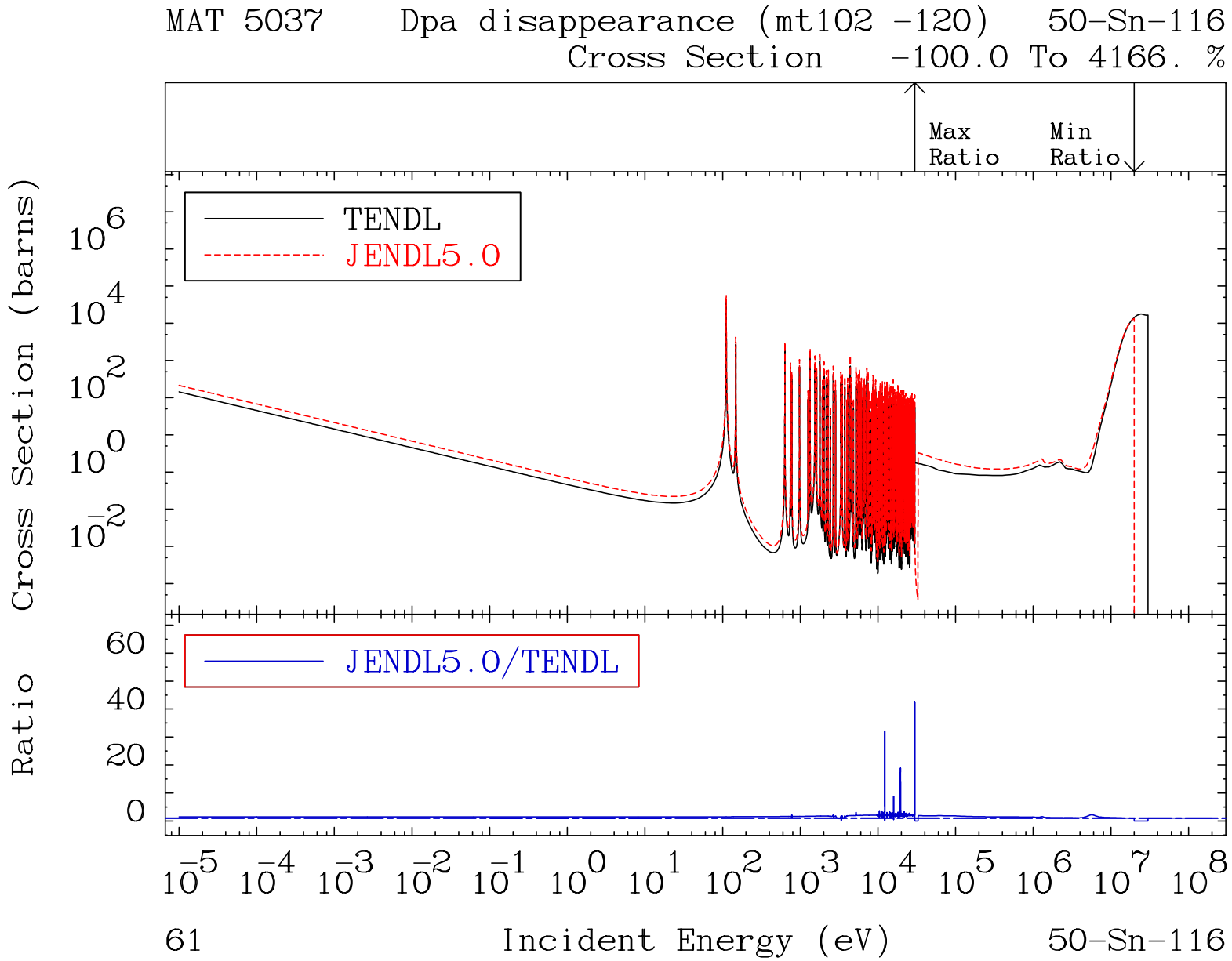

MAT 5037
Dpa total (eV-barns)
50-Sn-116
Cross Section -98.58 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
50-Sn-116

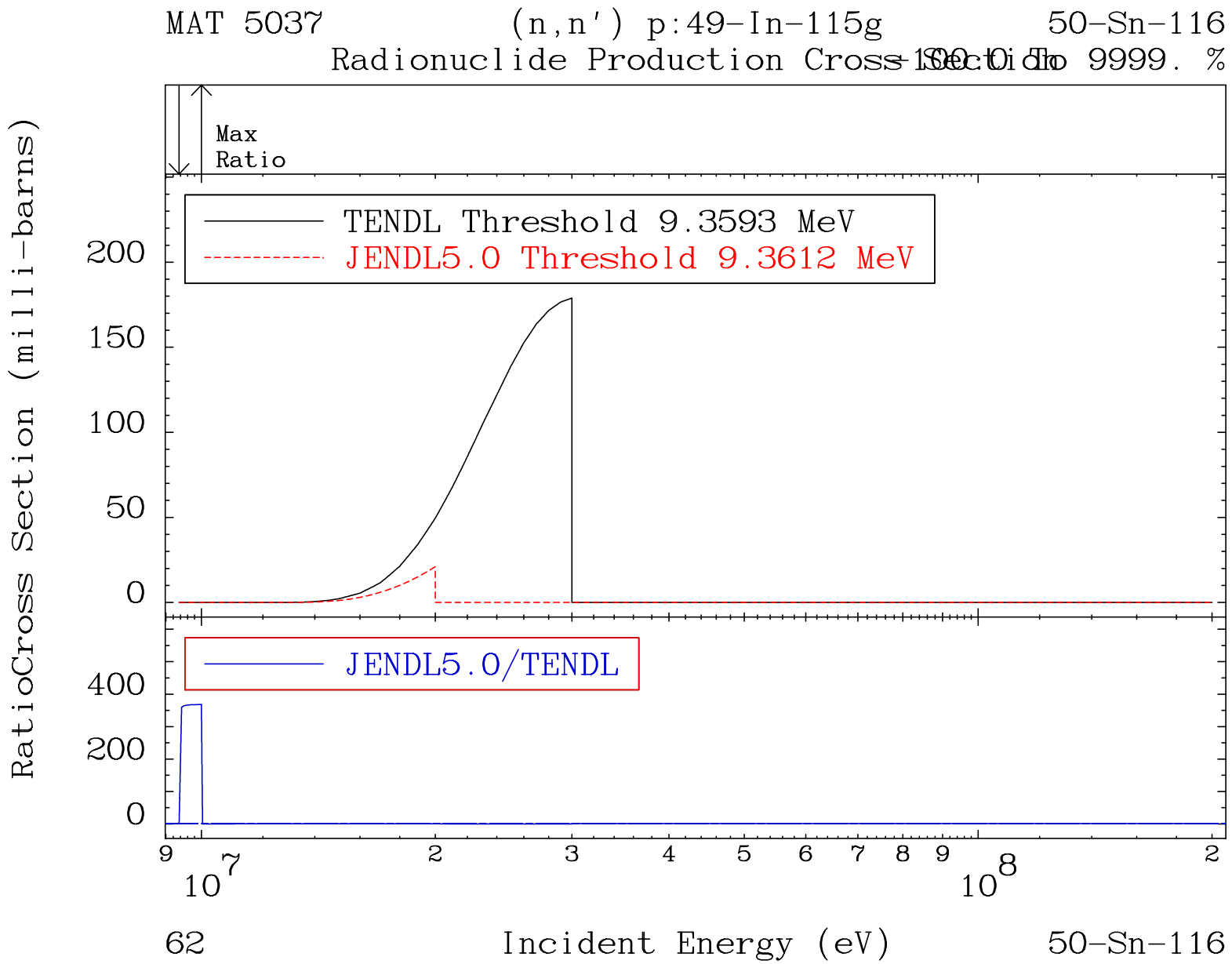

MAT 5037
Dpa elastic (mt2)
Cross Section
50-Sn-116
-98.79 To 9999. %
Max
Ratio
TENDL Threshold 672.82 eV
CENDL3.2 Threshold 670.05 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
50-Sn-116

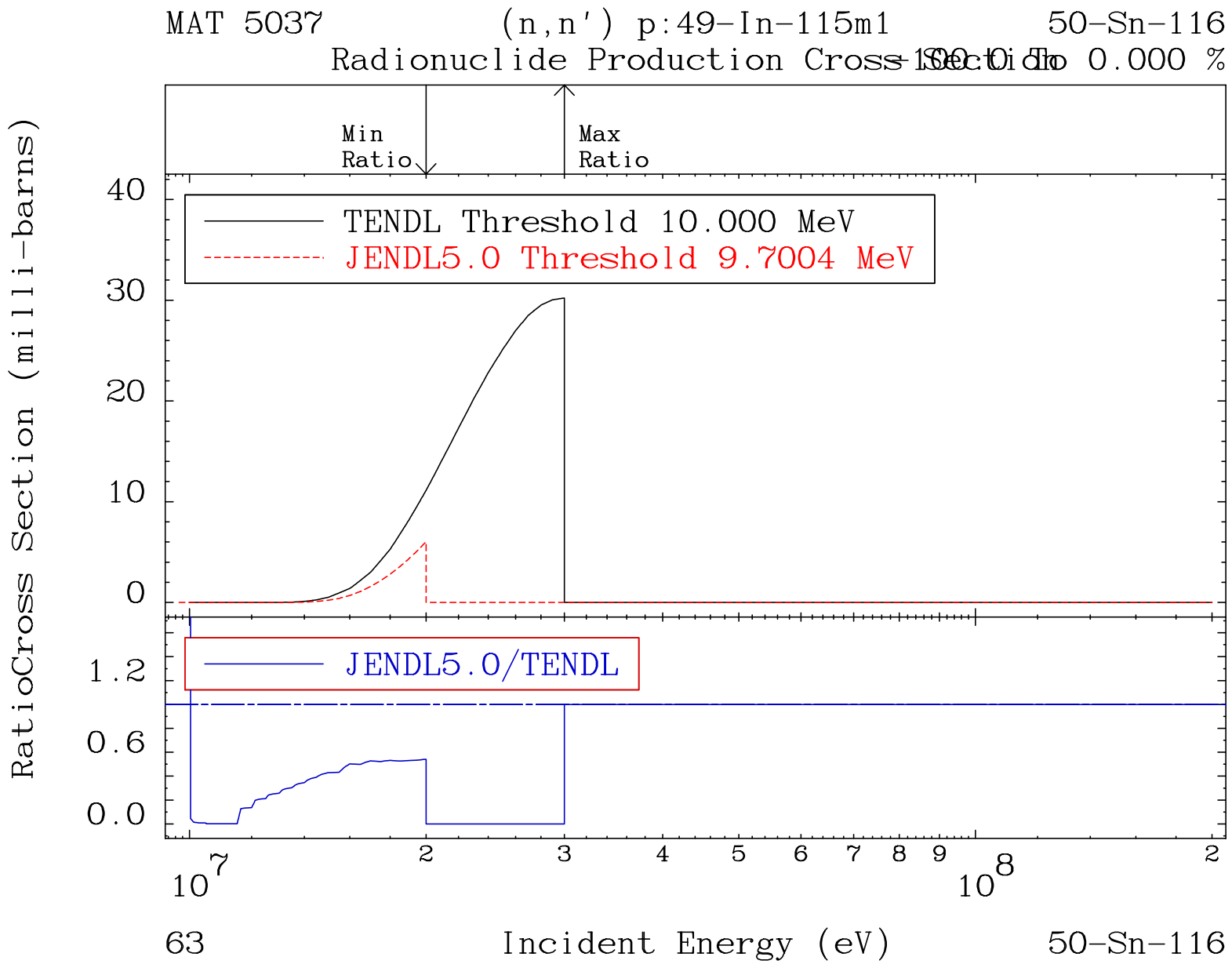

MAT 5037
Dpa inelastic (mt51-91)
50-Sn-116
Cross Section -100.0 To 117.6 %
Min Ratio
Max Ratio
TENDL Threshold 1.3048 MeV
CENDL3.2 Threshold 1.3048 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
50-Sn-116

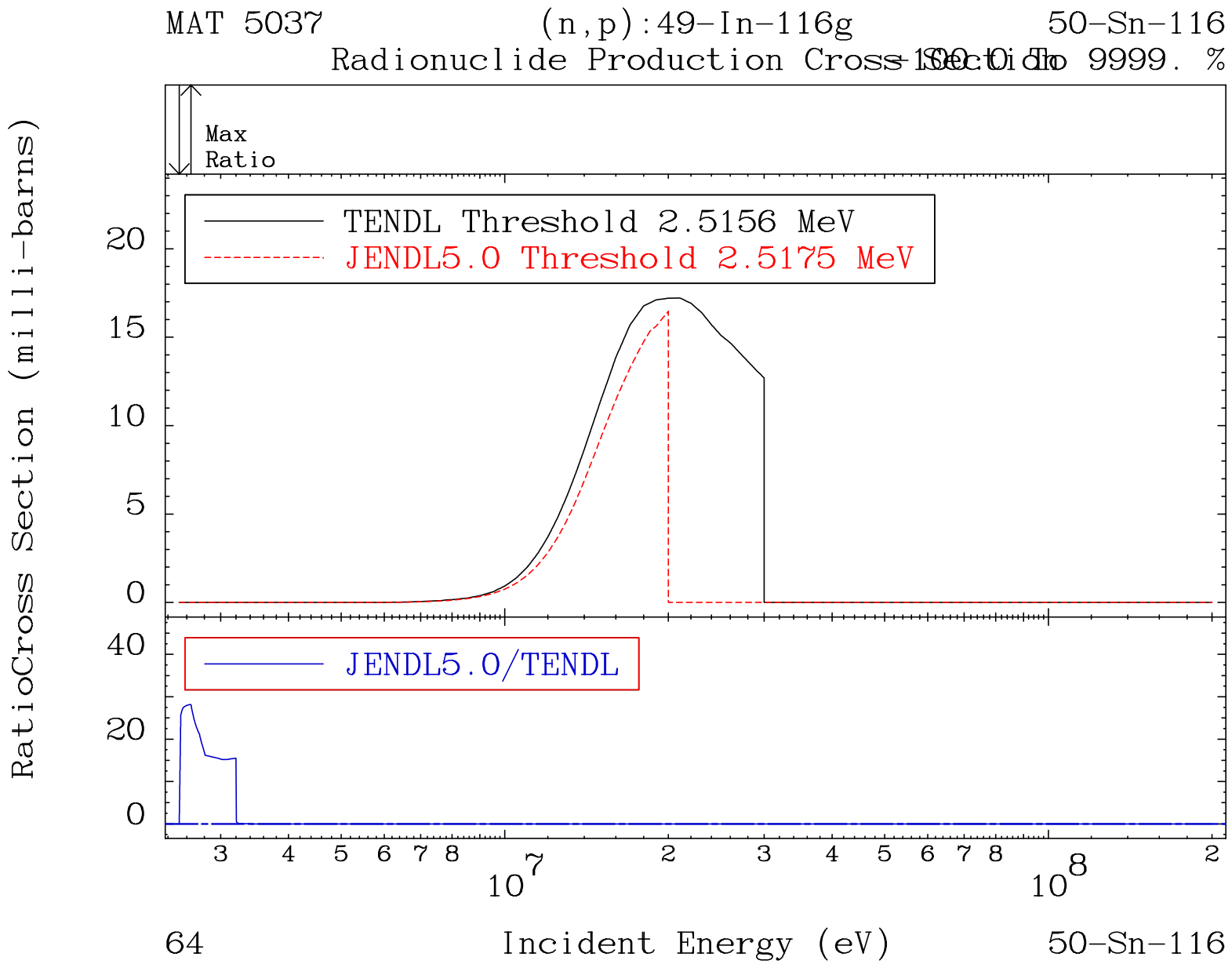

MAT 5037 Dpa disappearance (mt102 -120) 50-Sn-116
Cross Section -99.97 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
50-Sn-116

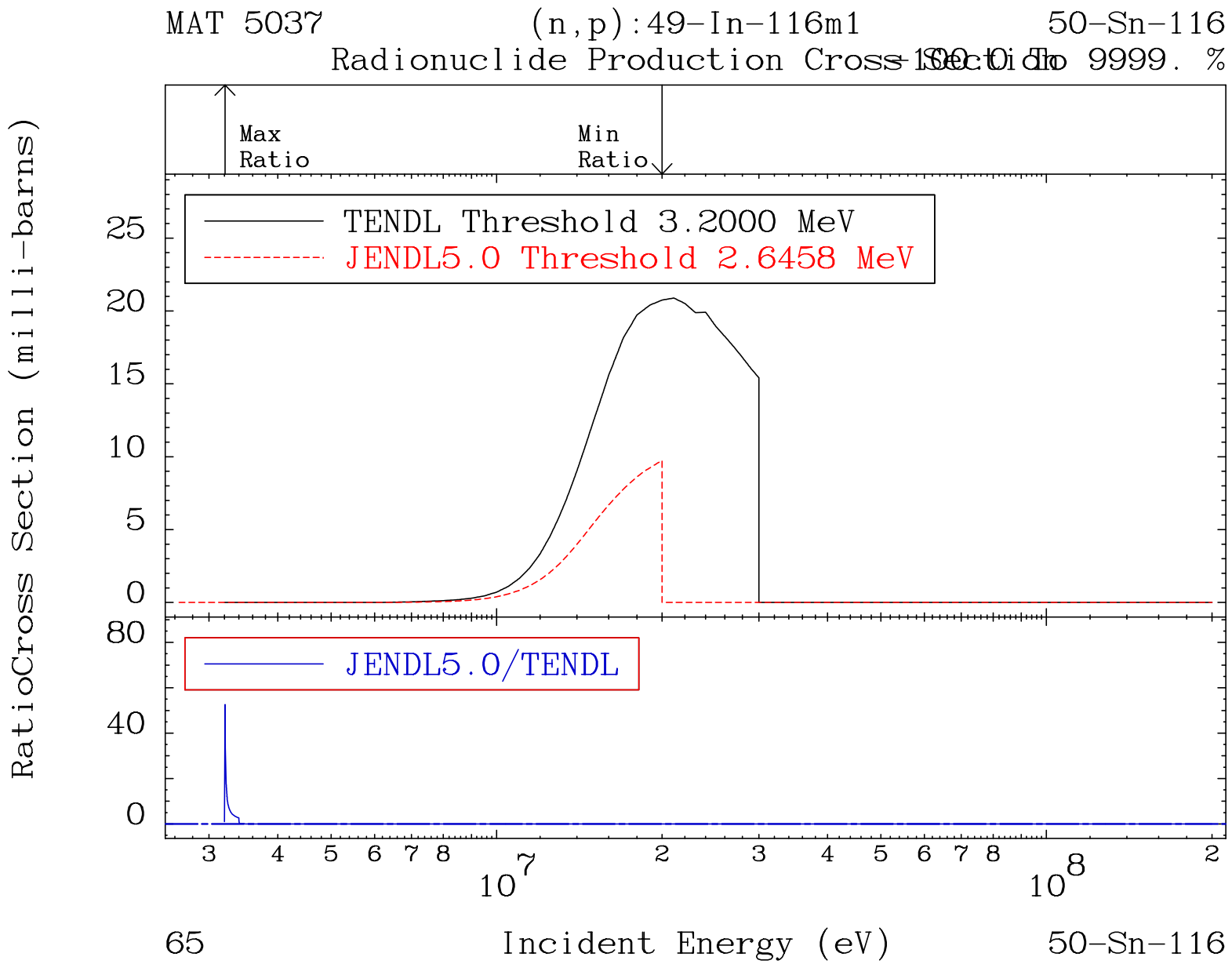

MAT 5037
Dpa inelastic (mt51-91)
50-Sn-116
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.3048 MeV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
50-Sn-116

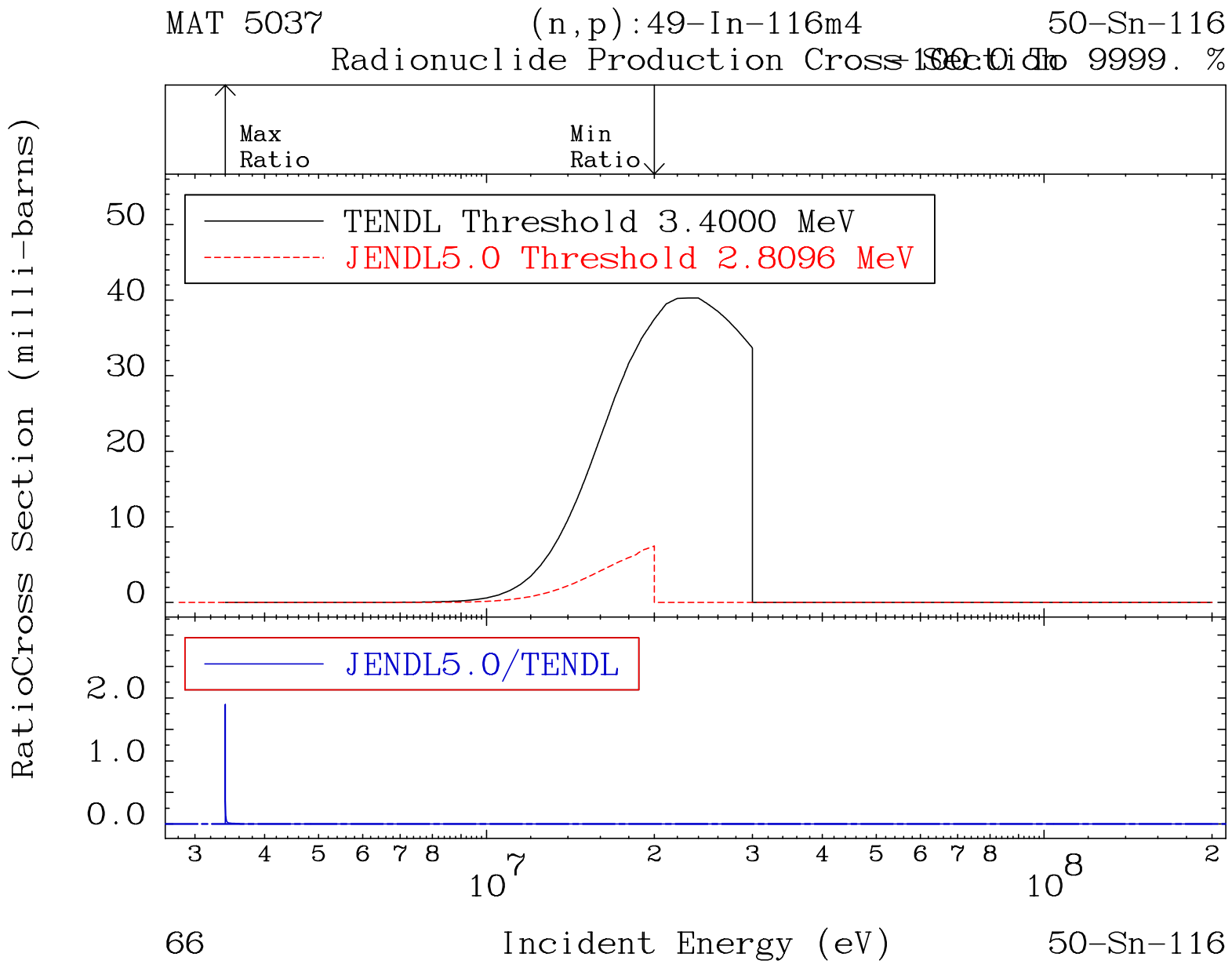

MAT 5037 Dpa disappearance (mt102 -120) 50-Sn-116
Cross Section -100.0 To 4166. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
61
50-Sn-116

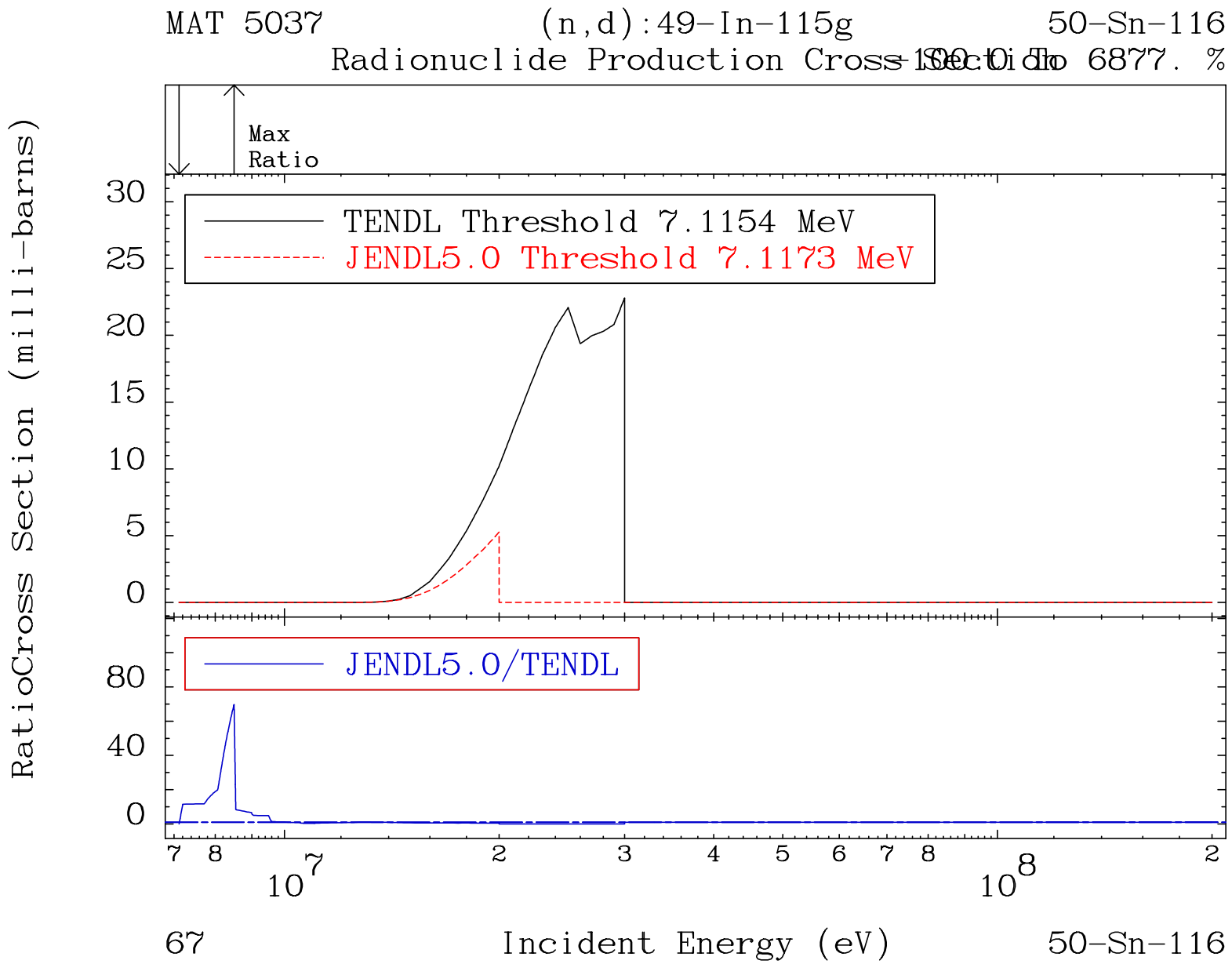

MAT 5037
(n,n') p:49-In-115g
50-Sn-116
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 9.3593 MeV
JENDL5.0 Threshold 9.3612 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
400
200
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
50-Sn-116

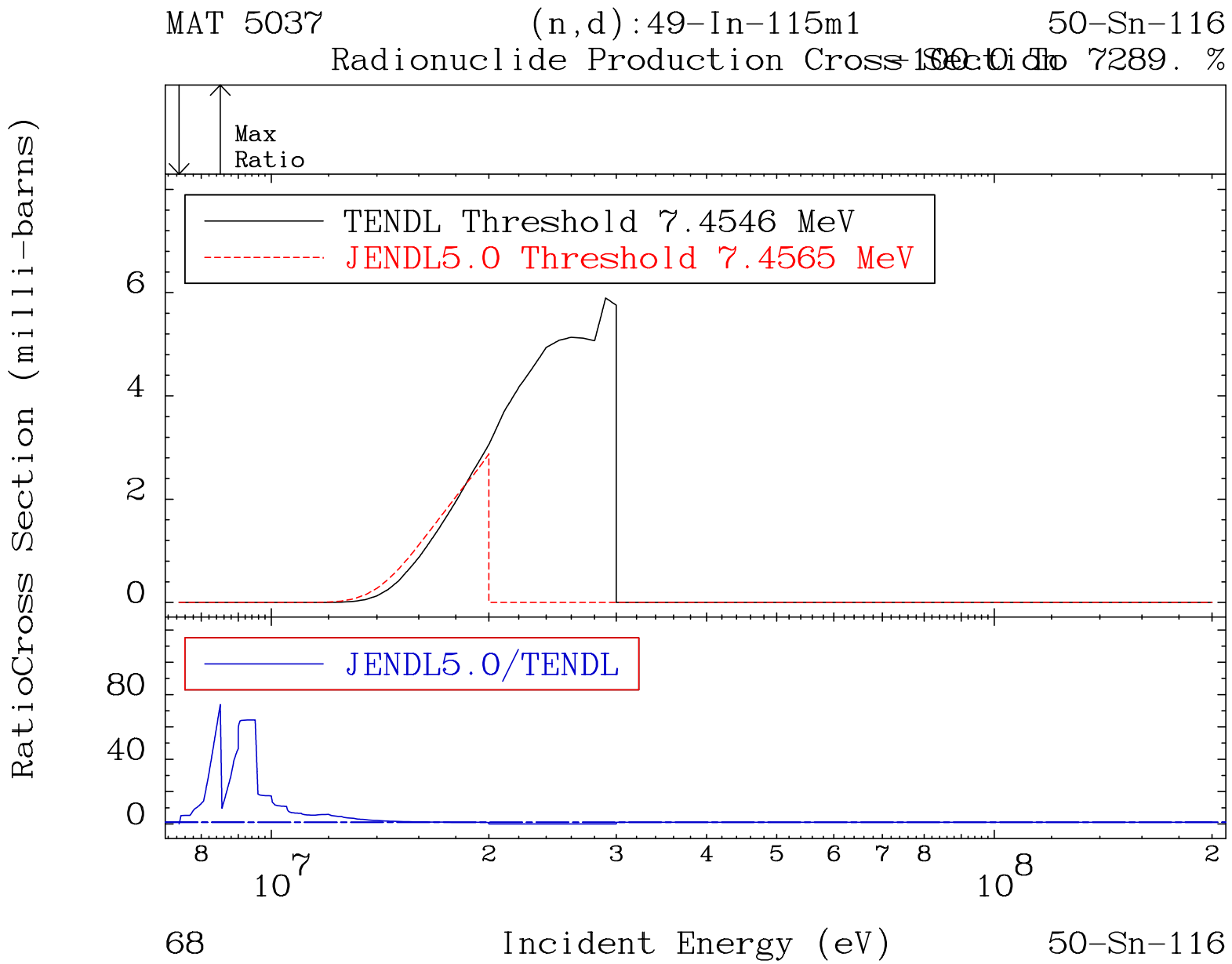

MAT 5037
(n,n') p:49-In-115m1
50-Sn-116
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 10.000 MeV
JENDL5.0 Threshold 9.7004 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
50-Sn-116

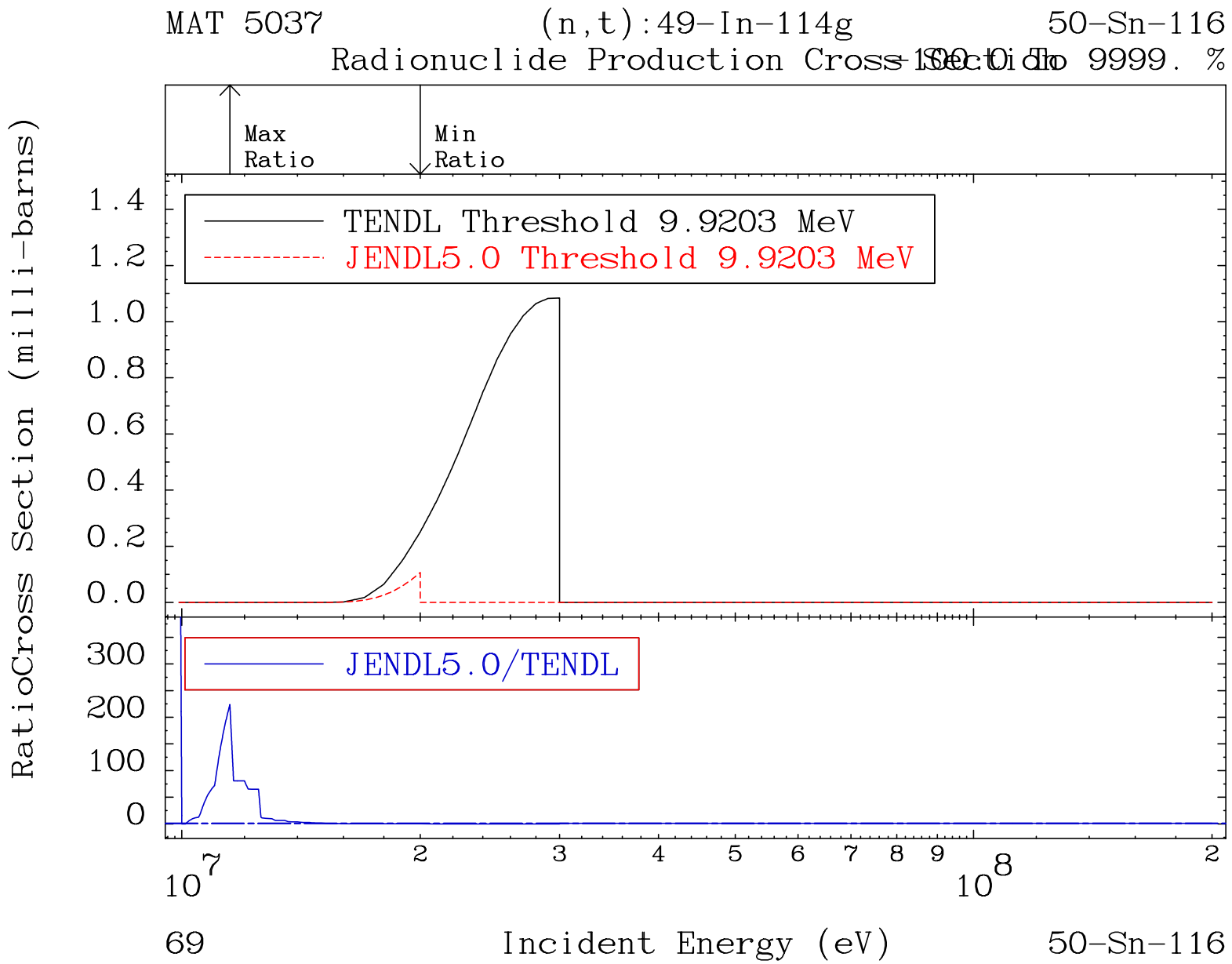

MAT 5037
(n,p):49-In-116g
50-Sn-116
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 2.5156 MeV
JENDL5.0 Threshold 2.5175 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
40
20
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
64
Incident Energy (eV)
50-Sn-116

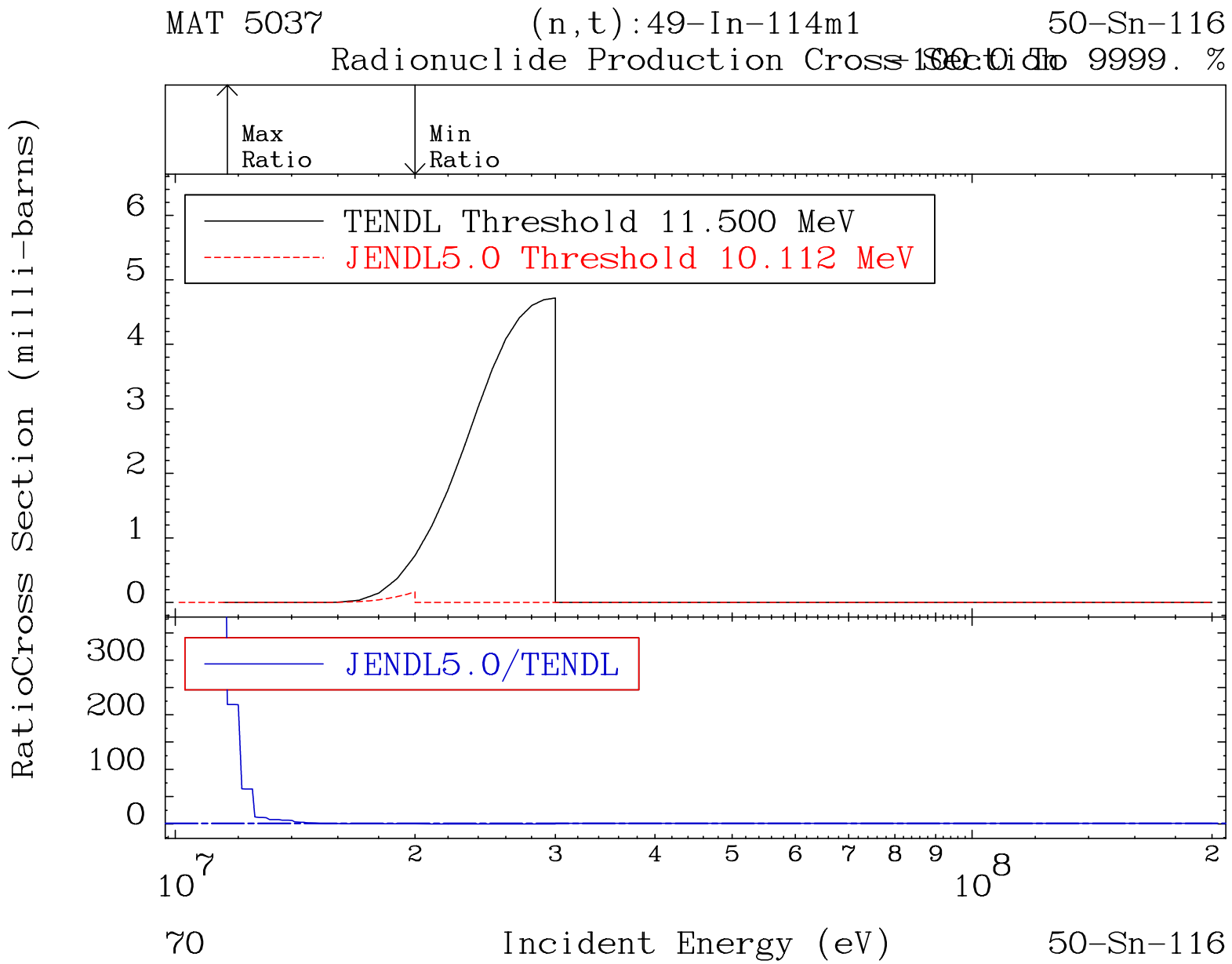

MAT 5037
(n,p):49-In-116m1
50-Sn-116
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.2000 MeV
JENDL5.0 Threshold 2.6458 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
80
40
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
65
Incident Energy (eV)
50-Sn-116


MAT 5037
(n,p):49-In-116m4
50-Sn-116
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.4000 MeV
JENDL5.0 Threshold 2.8096 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
66
Incident Energy (eV)
50-Sn-116


MAT 5037
(n,d):49-In-115g
50-Sn-116
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 7.1154 MeV
JENDL5.0 Threshold 7.1173 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
67
50-Sn-116


MAT 5037
(n,d):49-In-115m1
50-Sn-116
Radionuclide Production Cross Section
Max Ratio
TENDL Threshold 7.4546 MeV
JENDL5.0 Threshold 7.4565 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
68
50-Sn-116


MAT 5037
(n,t):49-In-114g
50-Sn-116
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 9.9203 MeV
JENDL5.0 Threshold 9.9203 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
50-Sn-116


MAT 5037
(n,t):49-In-114m1
50-Sn-116
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 11.500 MeV
JENDL5.0 Threshold 10.112 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
50-Sn-116