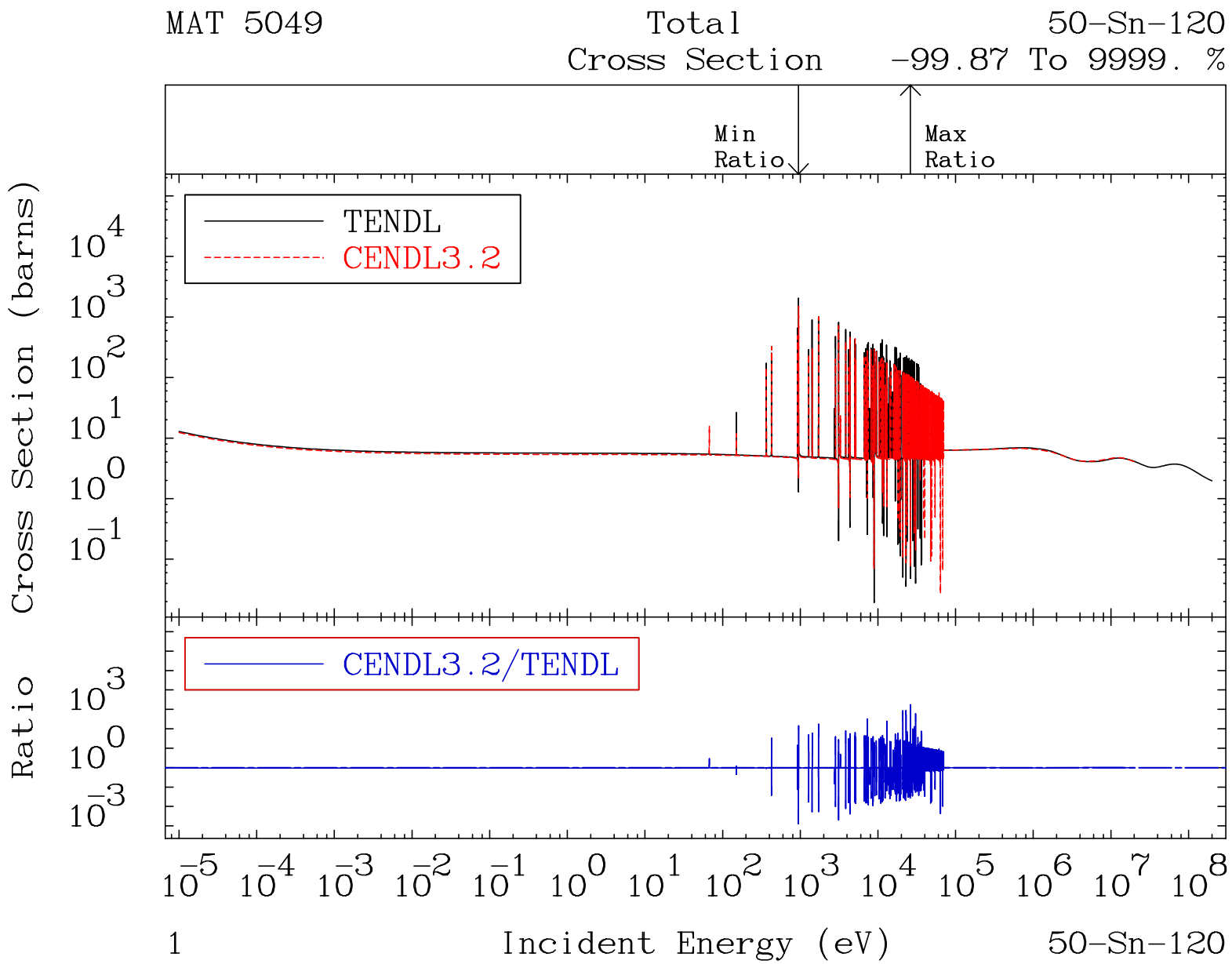
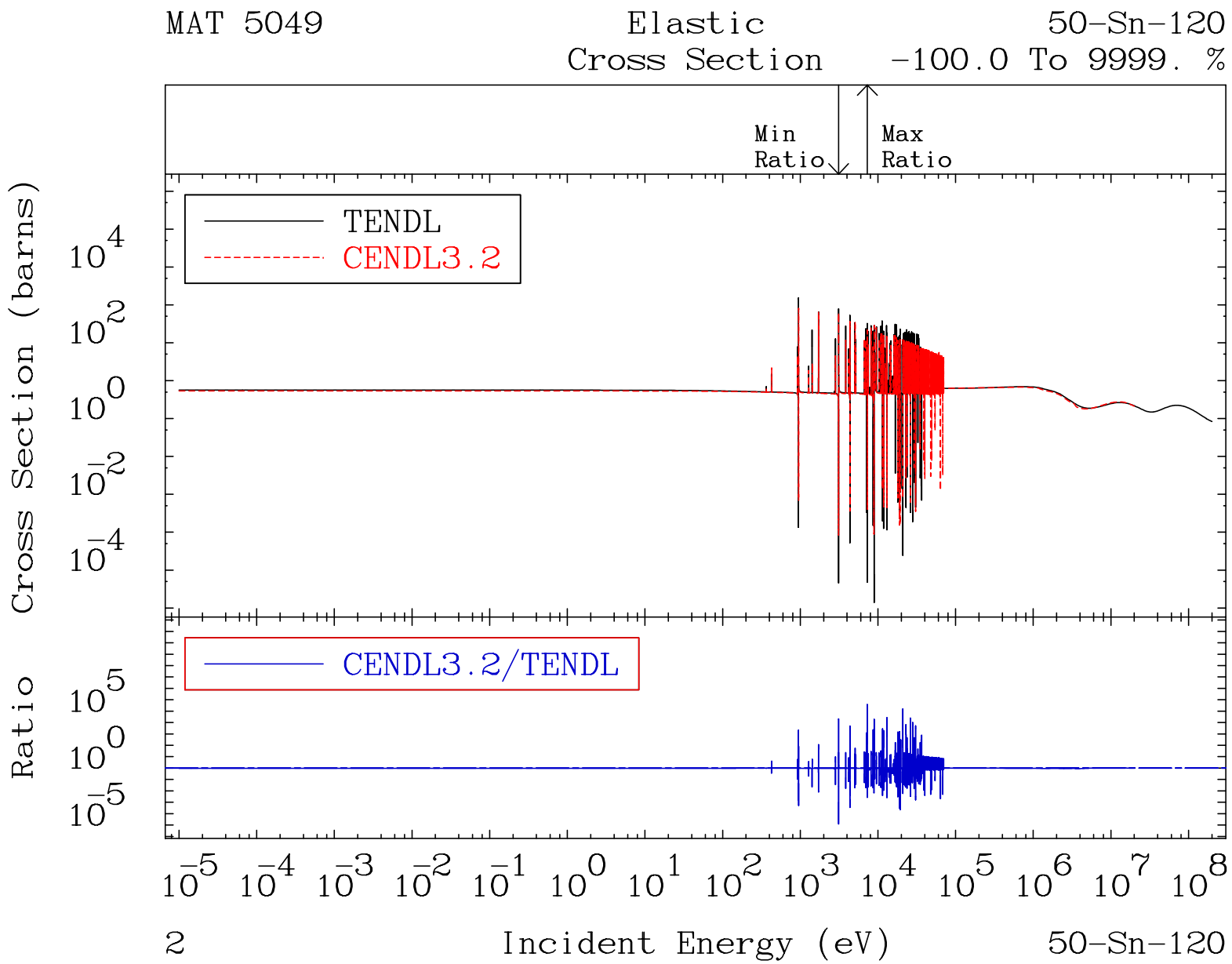
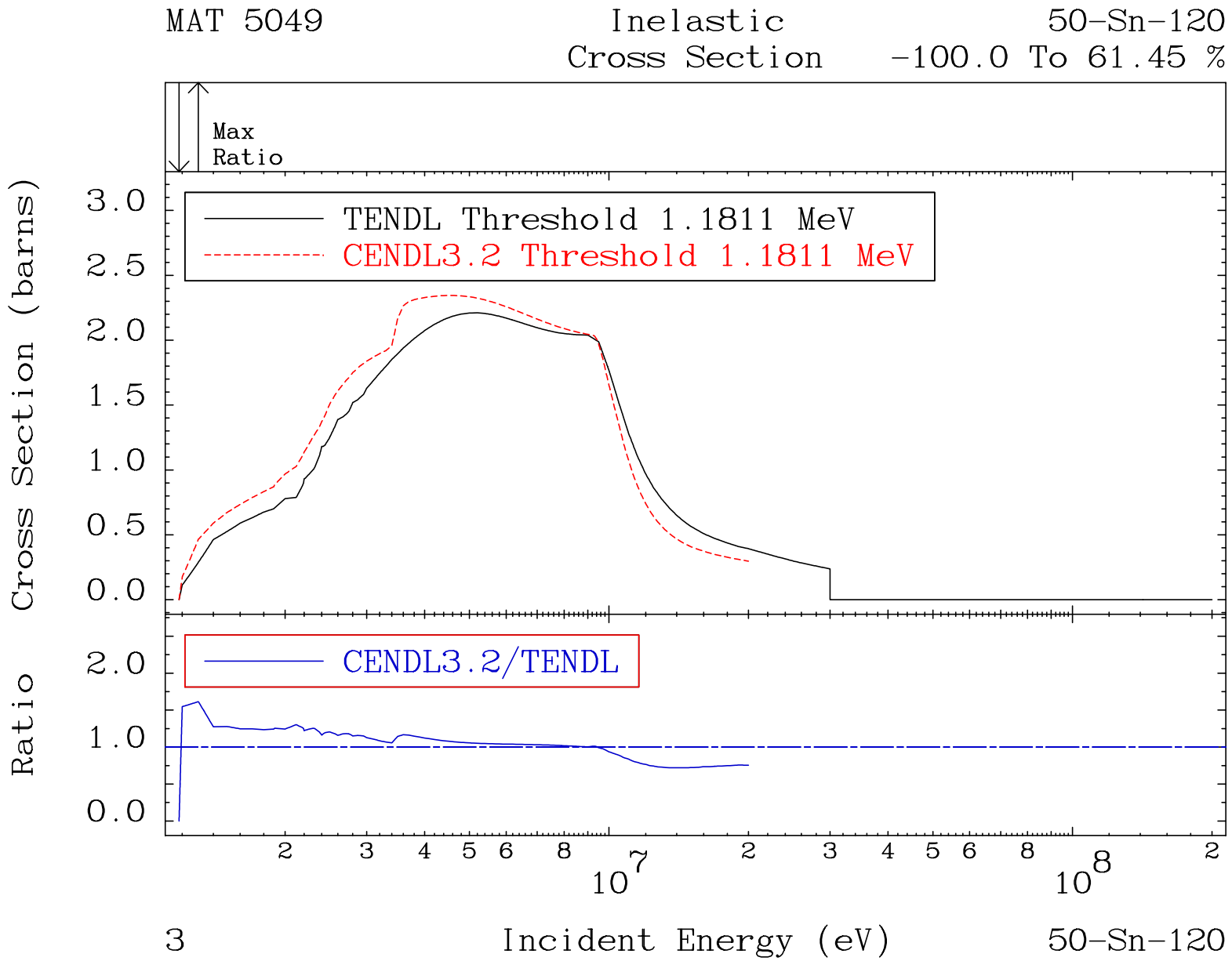
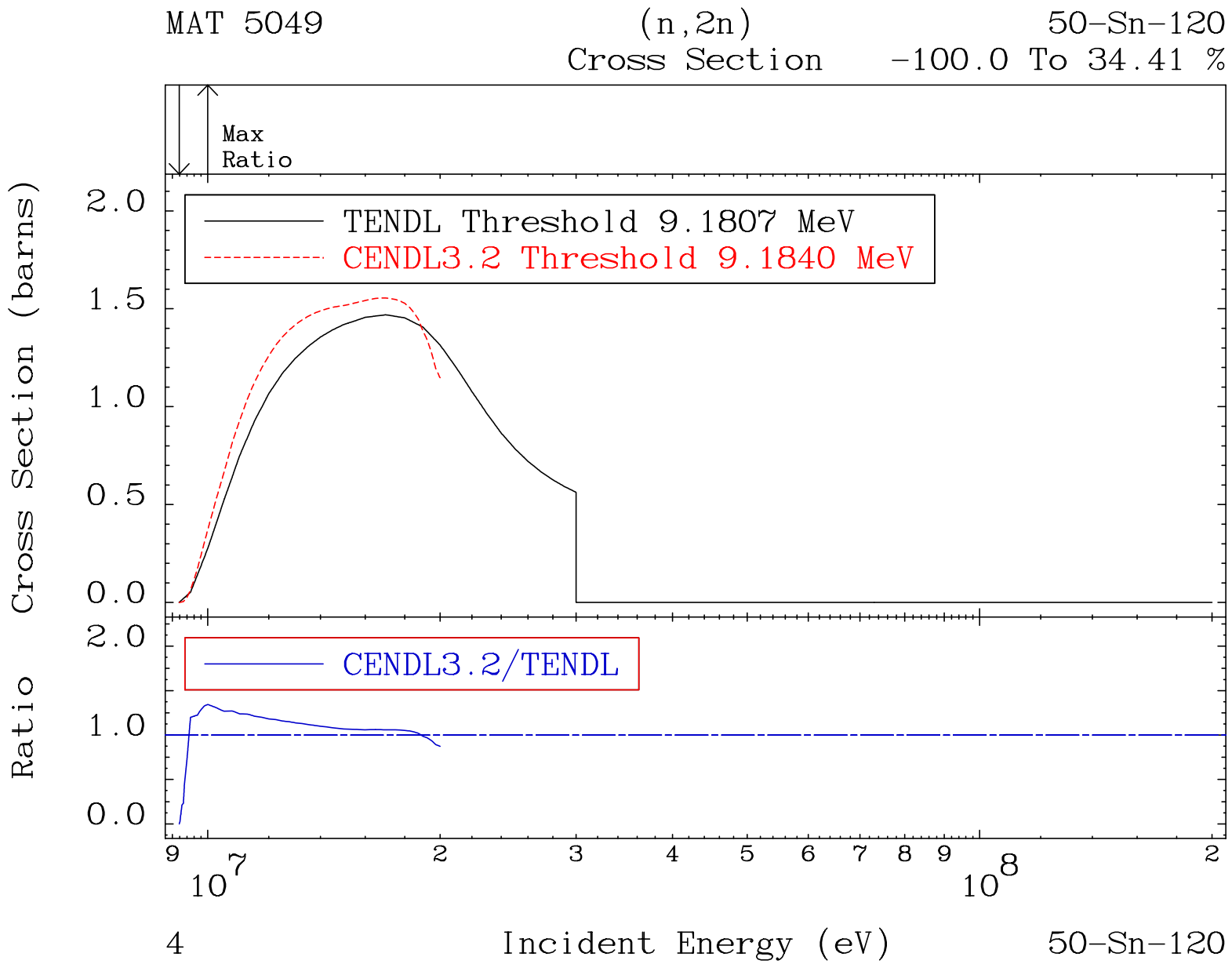
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

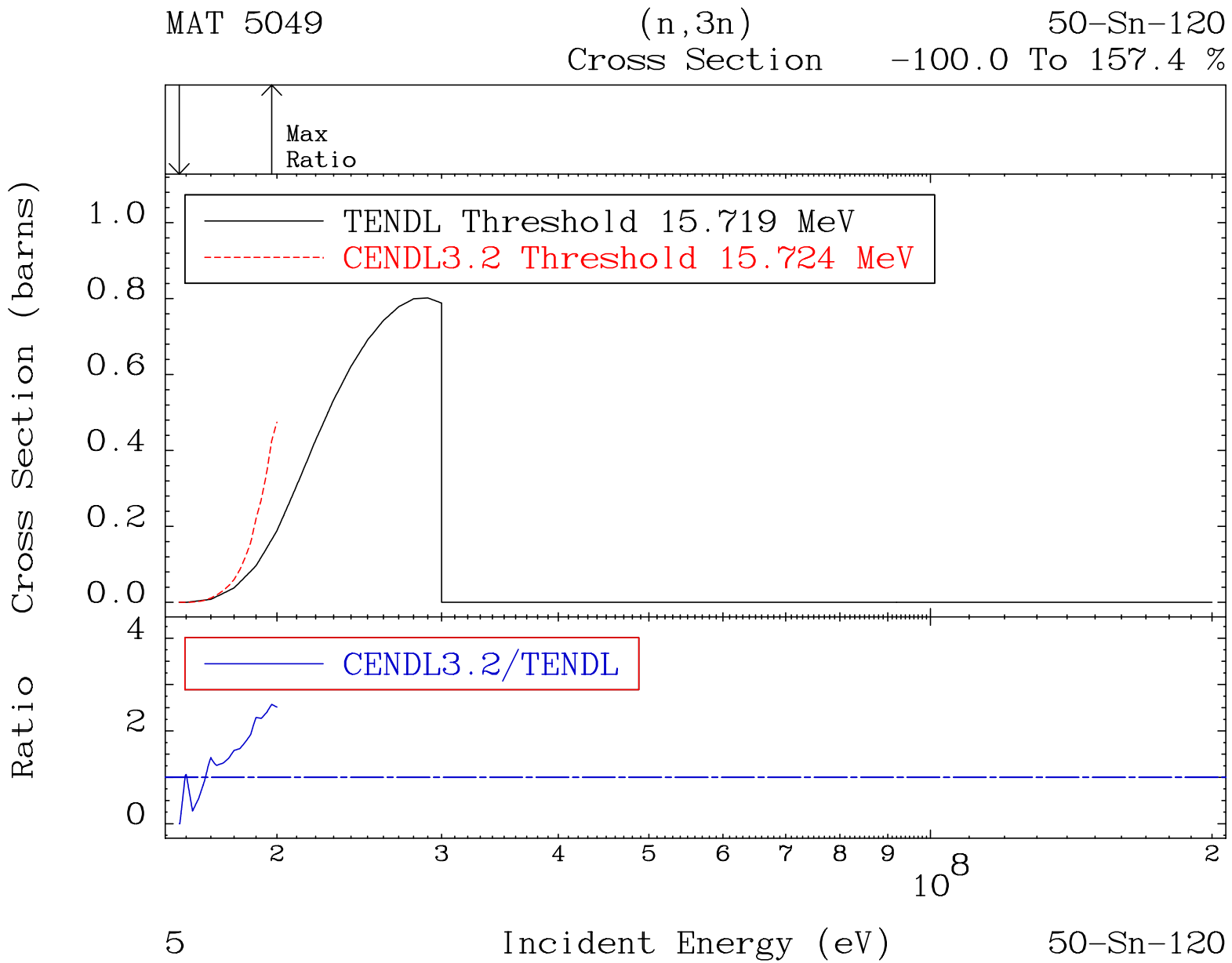
Press Mouse Button to Start

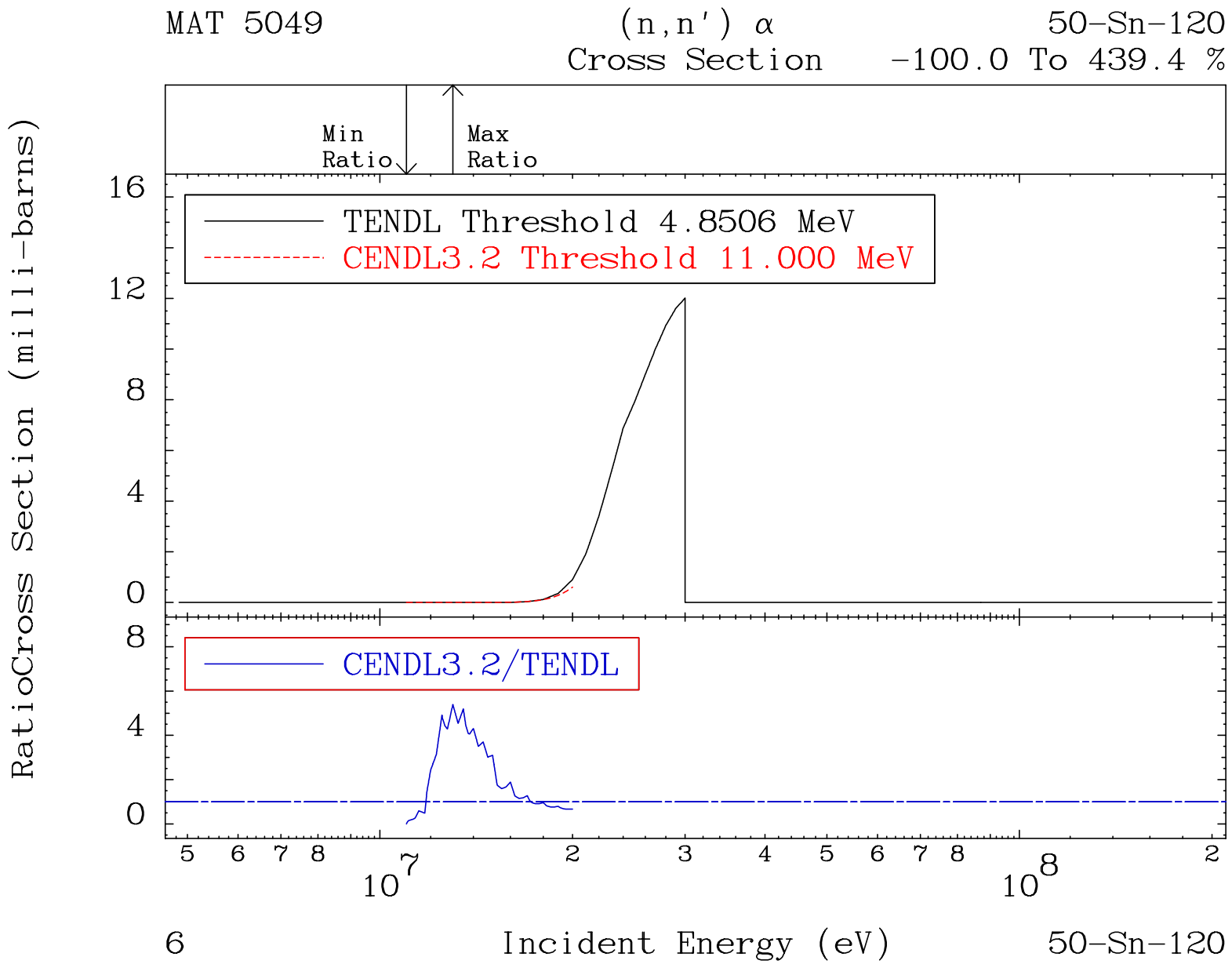

MAT 5049
Total
Cross Section
50-Sn-120
-99.87 To 9999. %
Min
Ratio
Max
Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
1
50-Sn-120

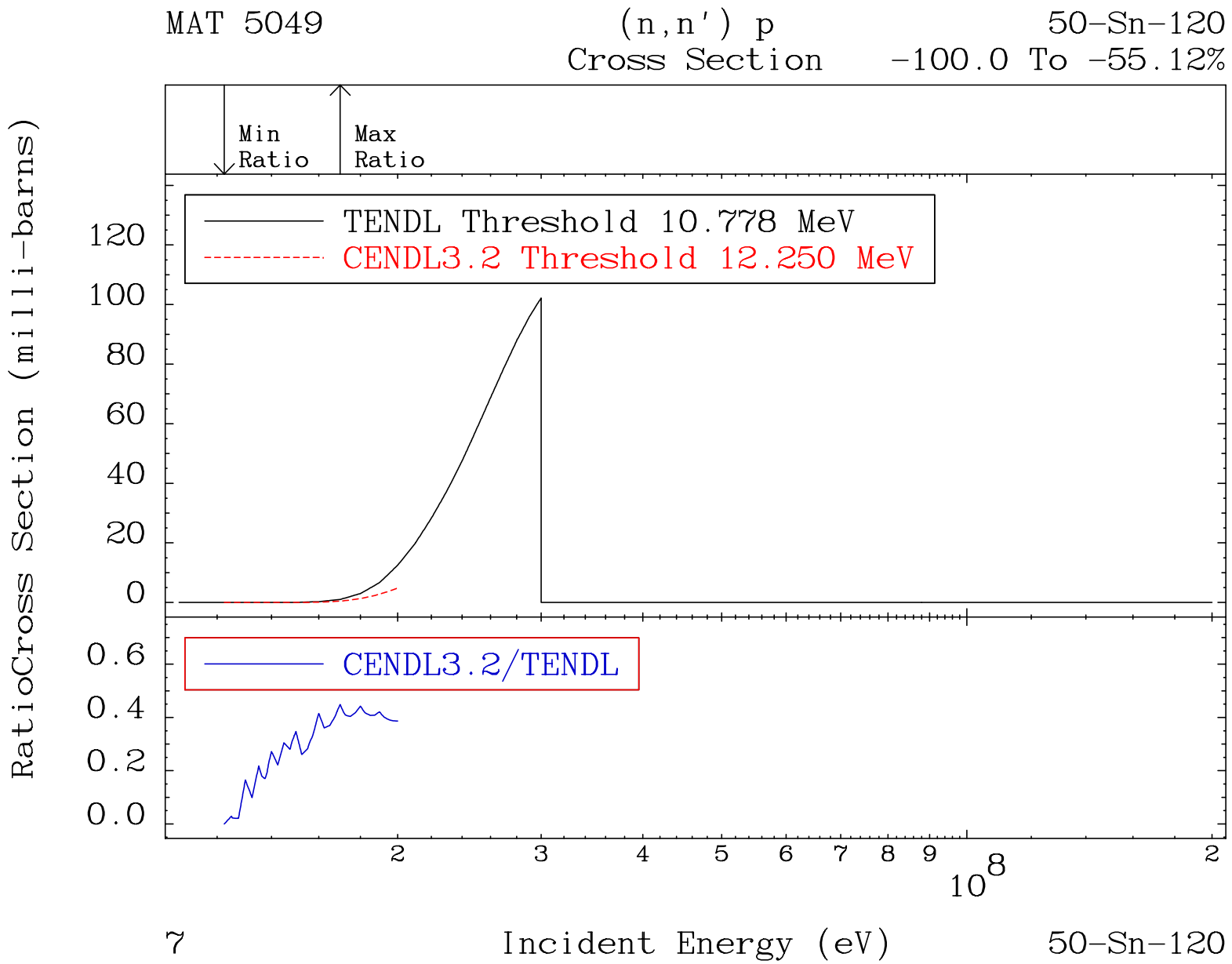

MAT 5049
Elastic
Cross Section
50-Sn-120
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
50-Sn-120

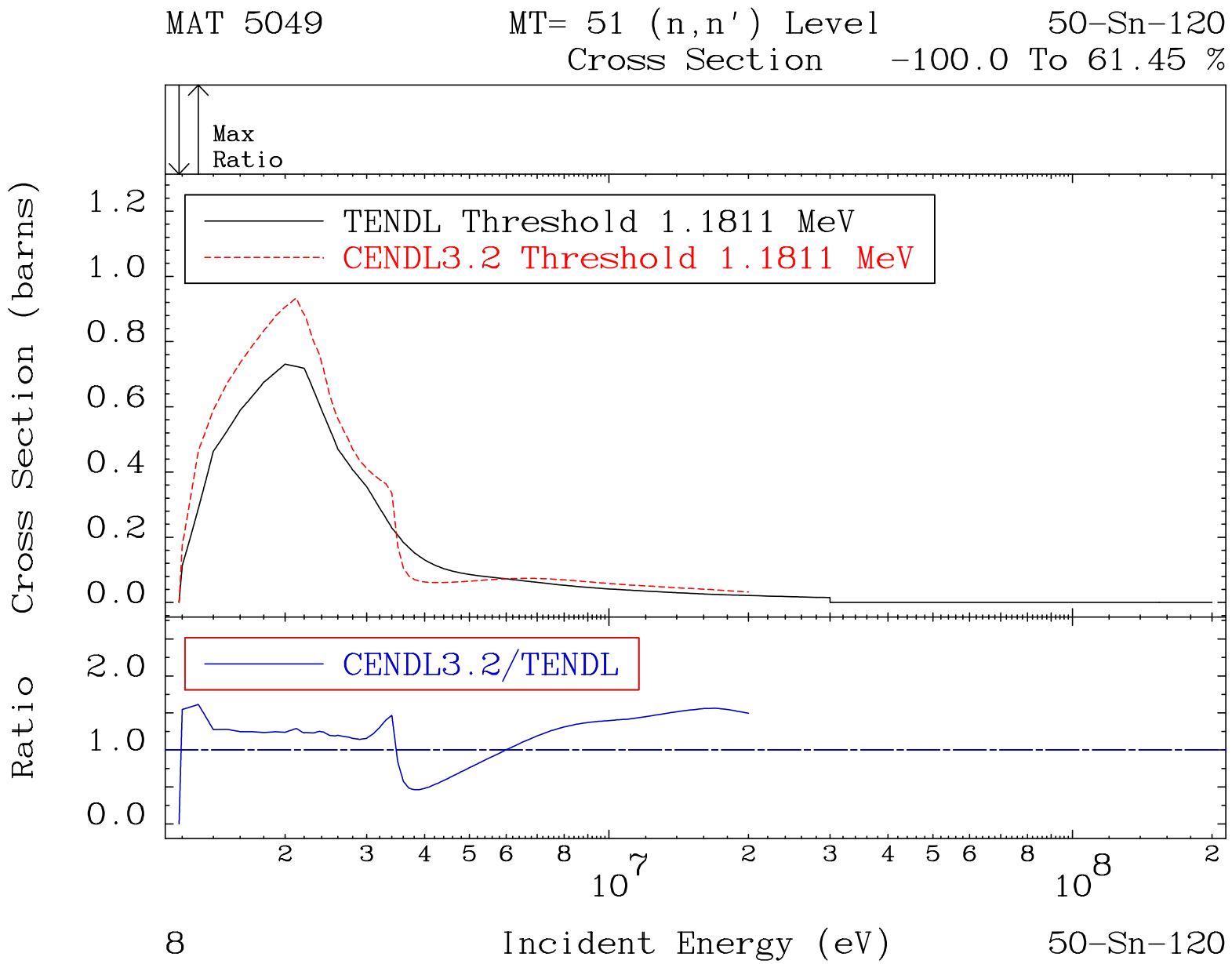

MAT 5049
Inelastic
Cross Section
50-Sn-120
-100.0 To 61.45 %
Max
Ratio
TENDL Threshold 1.1811 MeV
CENDL3.2 Threshold 1.1811 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
Incident Energy (eV)
3
50-Sn-120

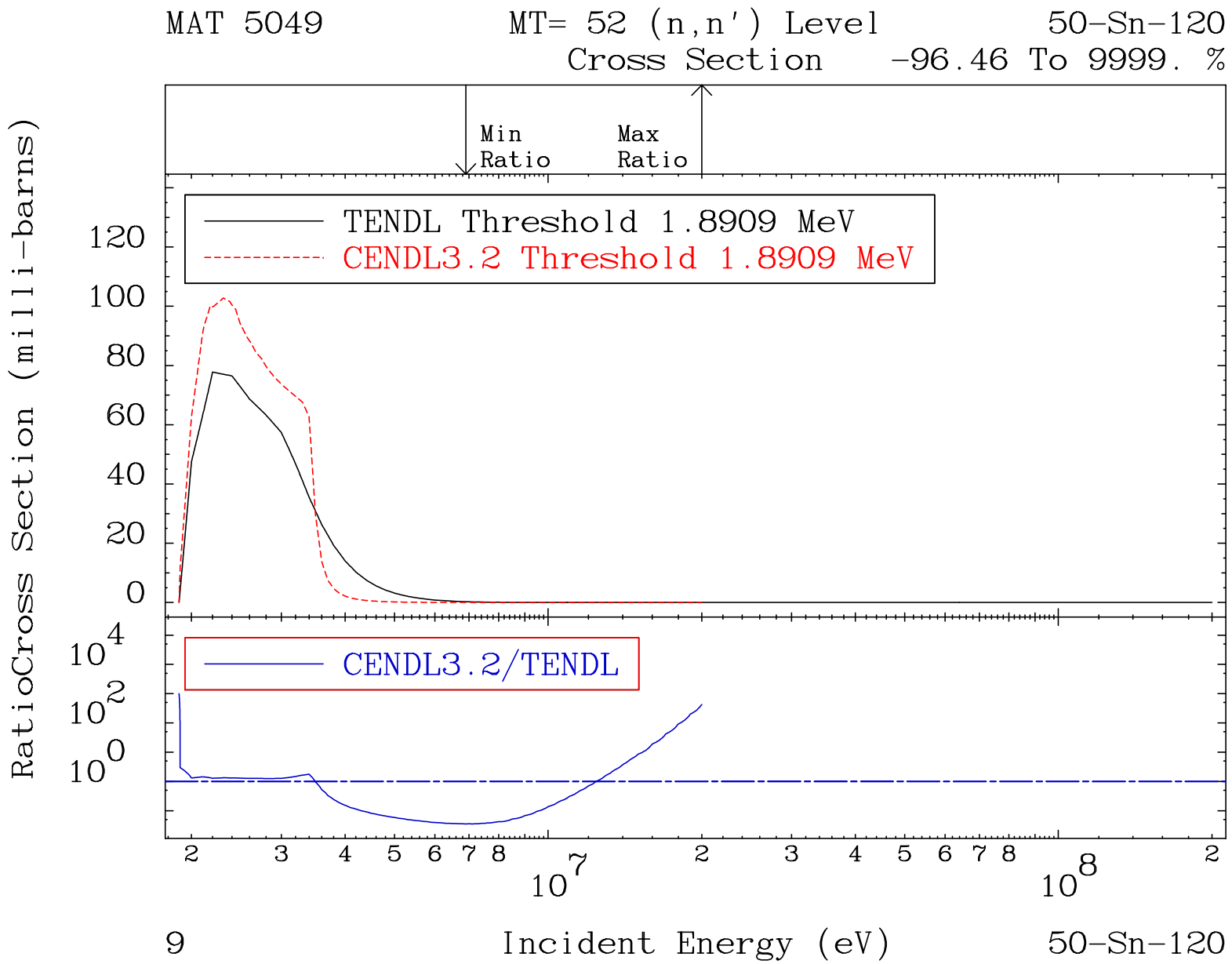

MAT 5049
(n,2n)
Cross Section
50-Sn-120
-100.0 To 34.41 %
Max
Ratio
TENDL Threshold 9.1807 MeV
CENDL3.2 Threshold 9.1840 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
Incident Energy (eV)
4
50-Sn-120

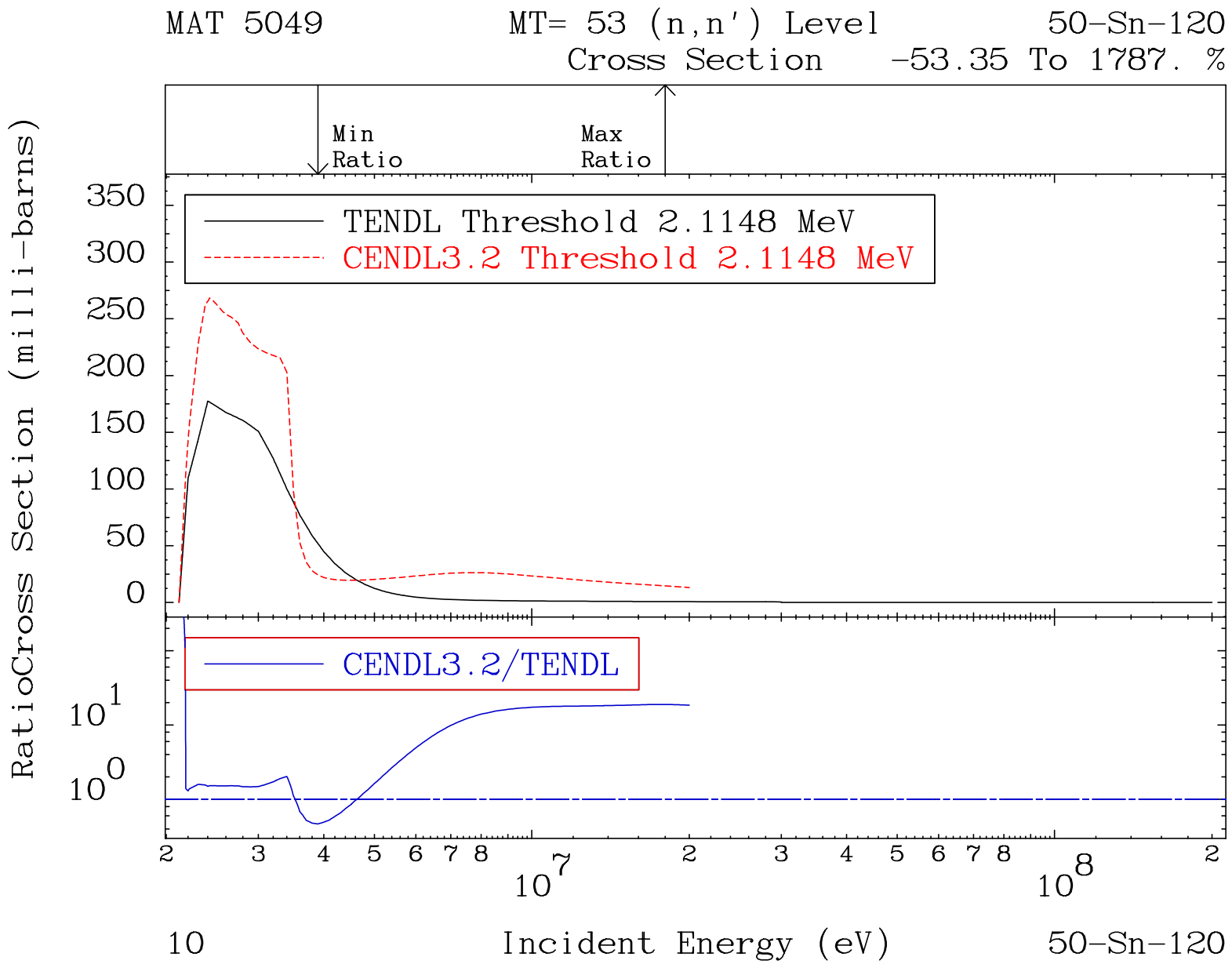

MAT 5049
(n,3n)
Cross Section
50-Sn-120
-100.0 To 157.4 %
Max
Ratio
TENDL Threshold 15.719 MeV
CENDL3.2 Threshold 15.724 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
50-Sn-120

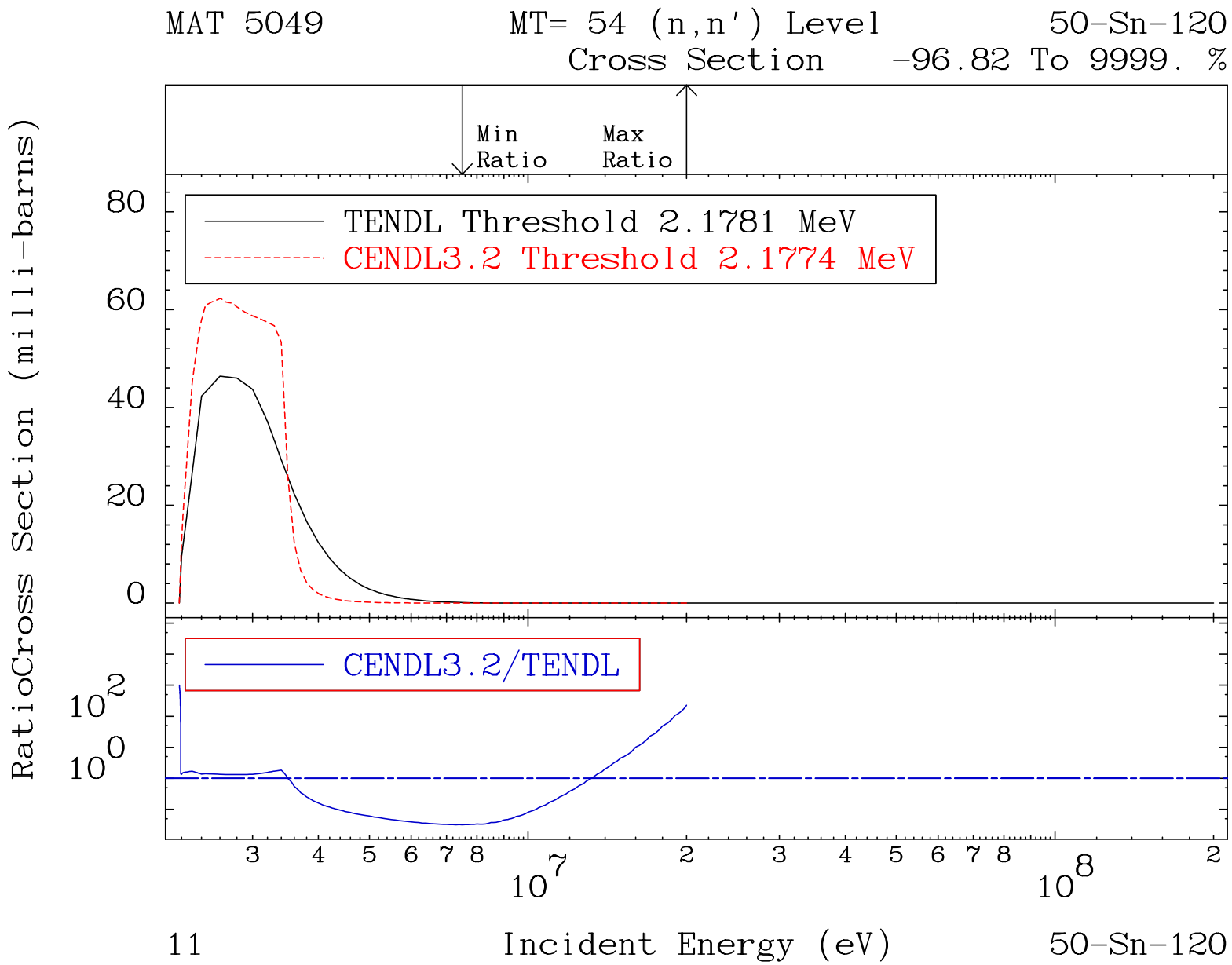

MAT 5049
(n,n') α
Cross Section
50-Sn-120
-100.0 To 439.4 %
Min Ratio
Max Ratio
TENDL Threshold 4.8506 MeV
CENDL3.2 Threshold 11.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
8
4
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
6
Incident Energy (eV)
50-Sn-120

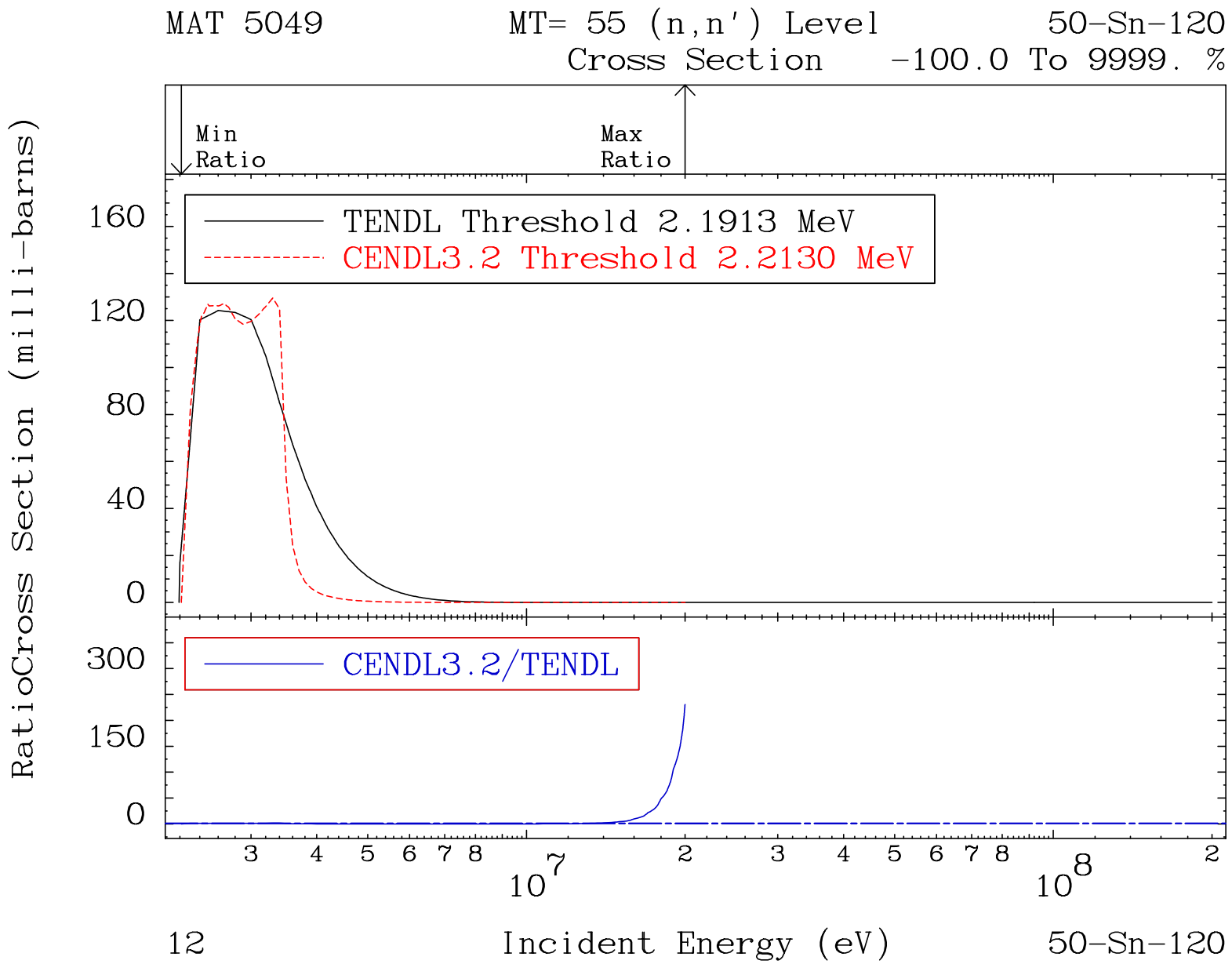

MAT 5049
(n,n') p
Cross Section
50-Sn-120
-100.0 To -55.12%
Min Ratio
Max Ratio
TENDL Threshold 10.778 MeV
CENDL3.2 Threshold 12.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
0.6
0.4
0.2
0.0
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
50-Sn-120

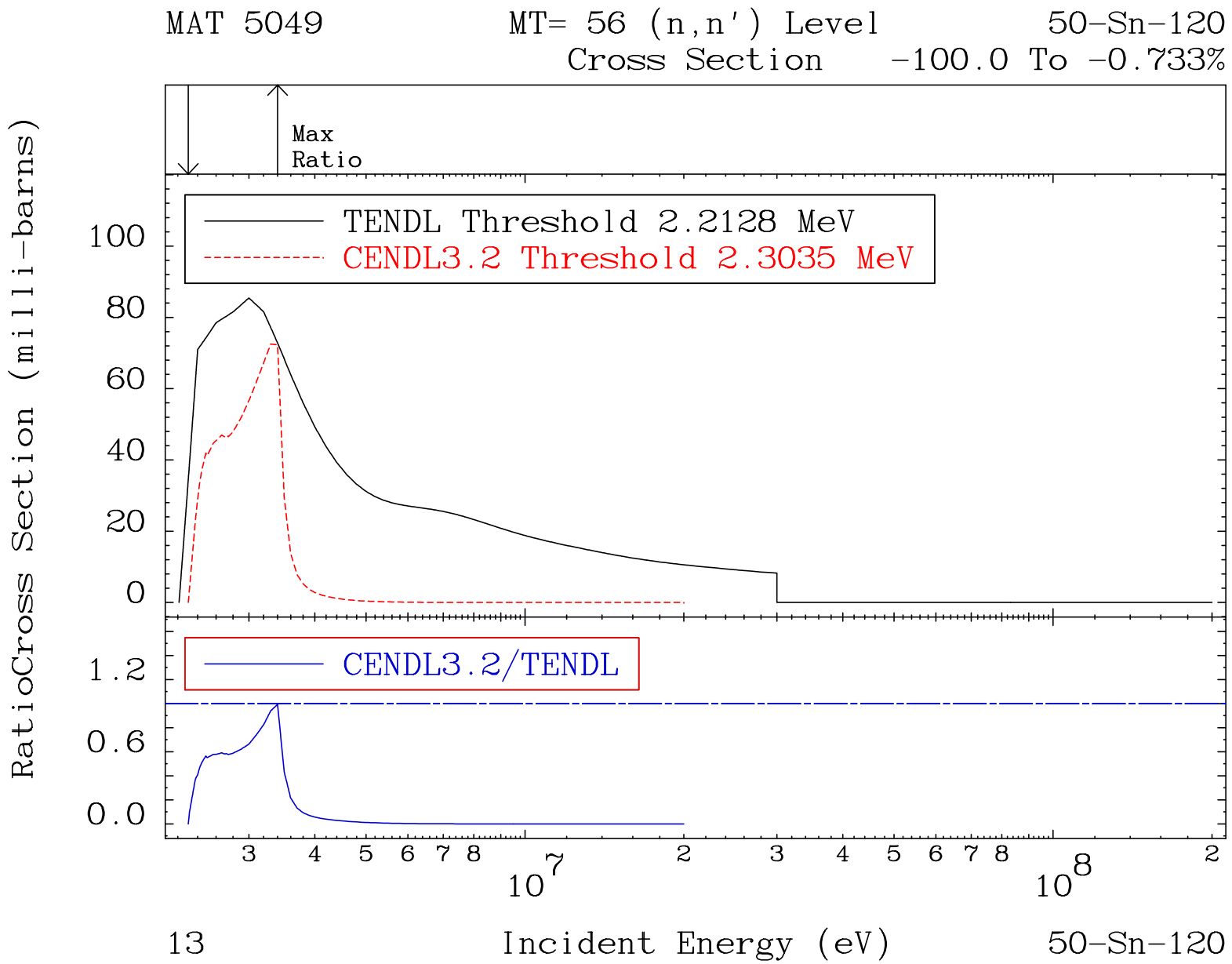

MAT 5049
MT= 51 (n,n') Level
50-Sn-120
Cross Section
-100.0 To 61.45 %
Max
Ratio
TENDL Threshold 1.1811 MeV
CENDL3.2 Threshold 1.1811 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
8
Incident Energy (eV)
50-Sn-120

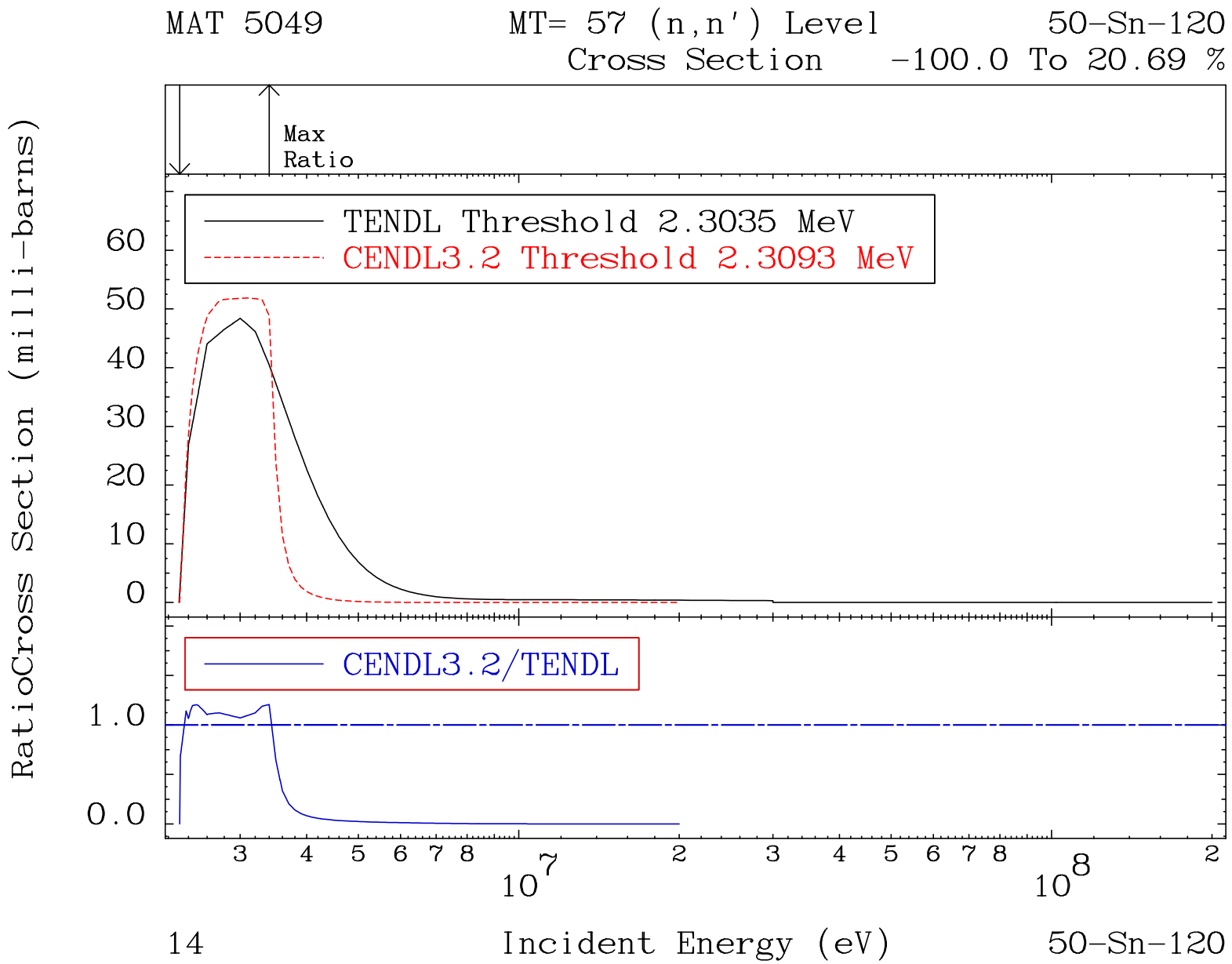

MAT 5049
MT= 52 (n,n') Level
50-Sn-120
Cross Section
-96.46 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8909 MeV
CENDL3.2 Threshold 1.8909 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
50-Sn-120

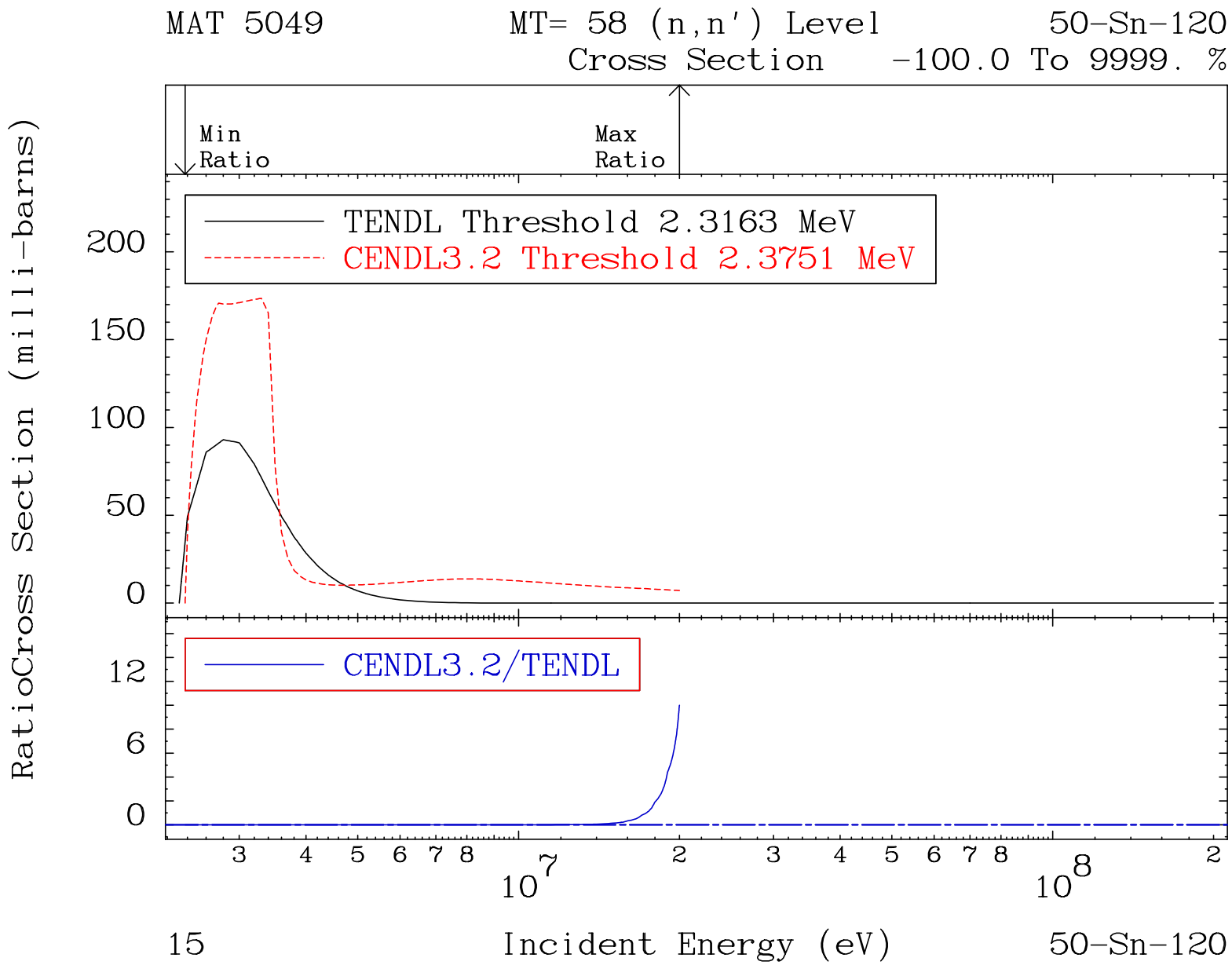

MAT 5049
MT= 53 (n,n') Level
50-Sn-120
Cross Section -53.35 To 1787. %
Min Ratio
Max Ratio
TENDL Threshold 2.1148 MeV
CENDL3.2 Threshold 2.1148 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
$10^1$
$10^0$
2 3 4 5 6 7 8 $10^7$ 2 3 4 5 6 7 8 $10^8$ 2
10
Incident Energy (eV)
50-Sn-120

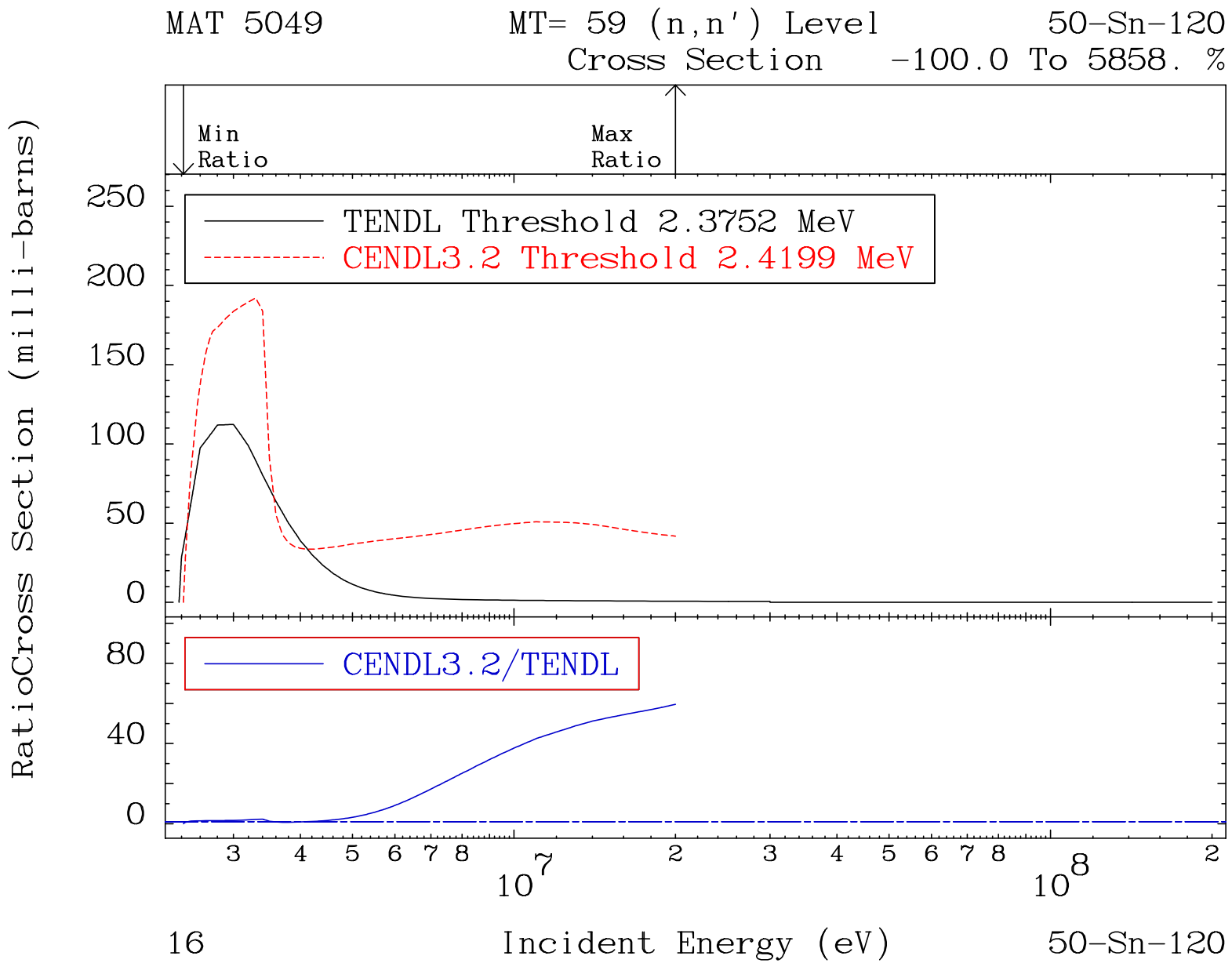

MAT 5049
MT= 54 (n,n') Level
50-Sn-120
Cross Section -96.82 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.1781 MeV
CENDL3.2 Threshold 2.1774 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
11
50-Sn-120

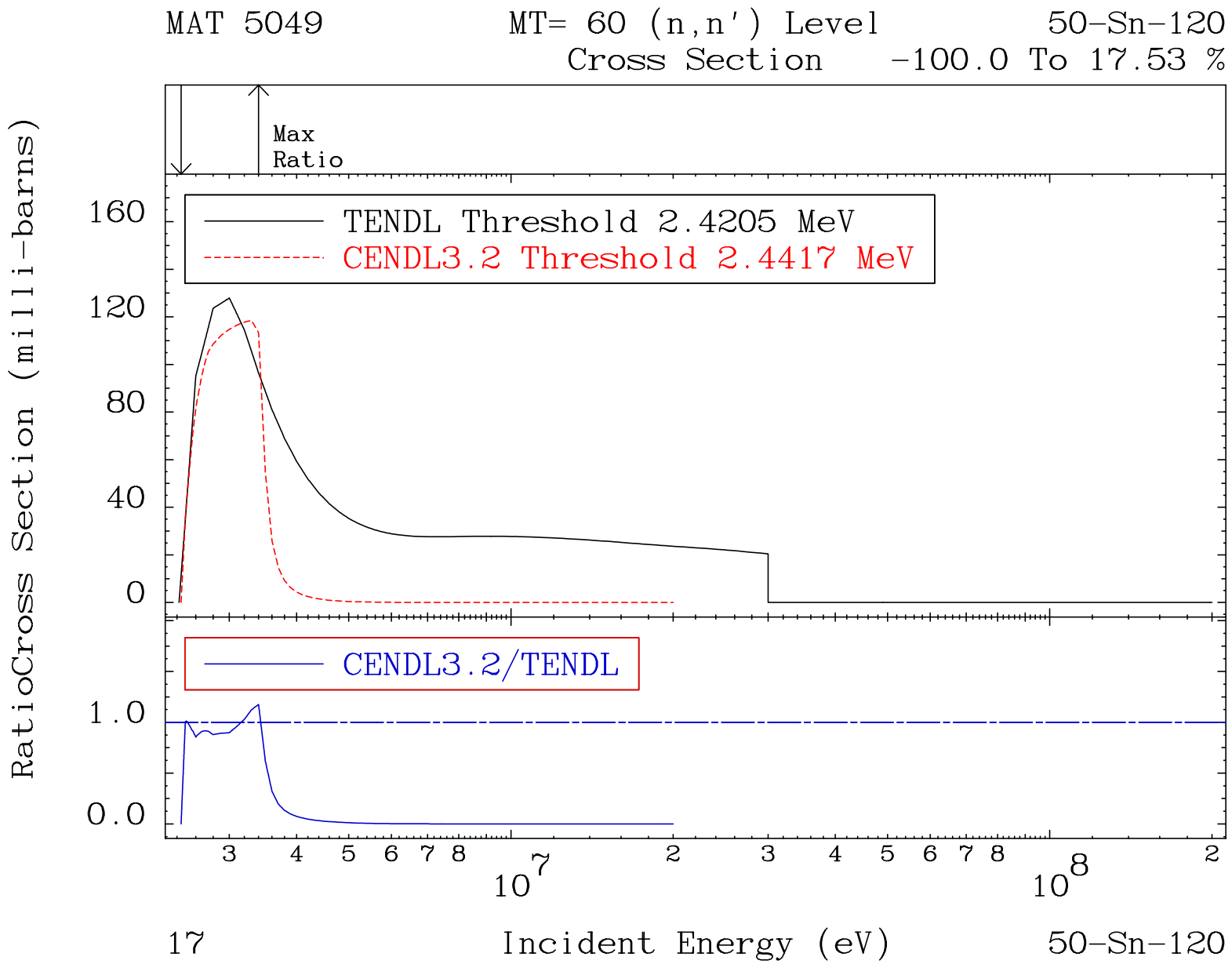

MAT 5049
MT= 55 (n,n') Level
50-Sn-120
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.1913 MeV
CENDL3.2 Threshold 2.2130 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
300
150
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
12
Incident Energy (eV)
50-Sn-120

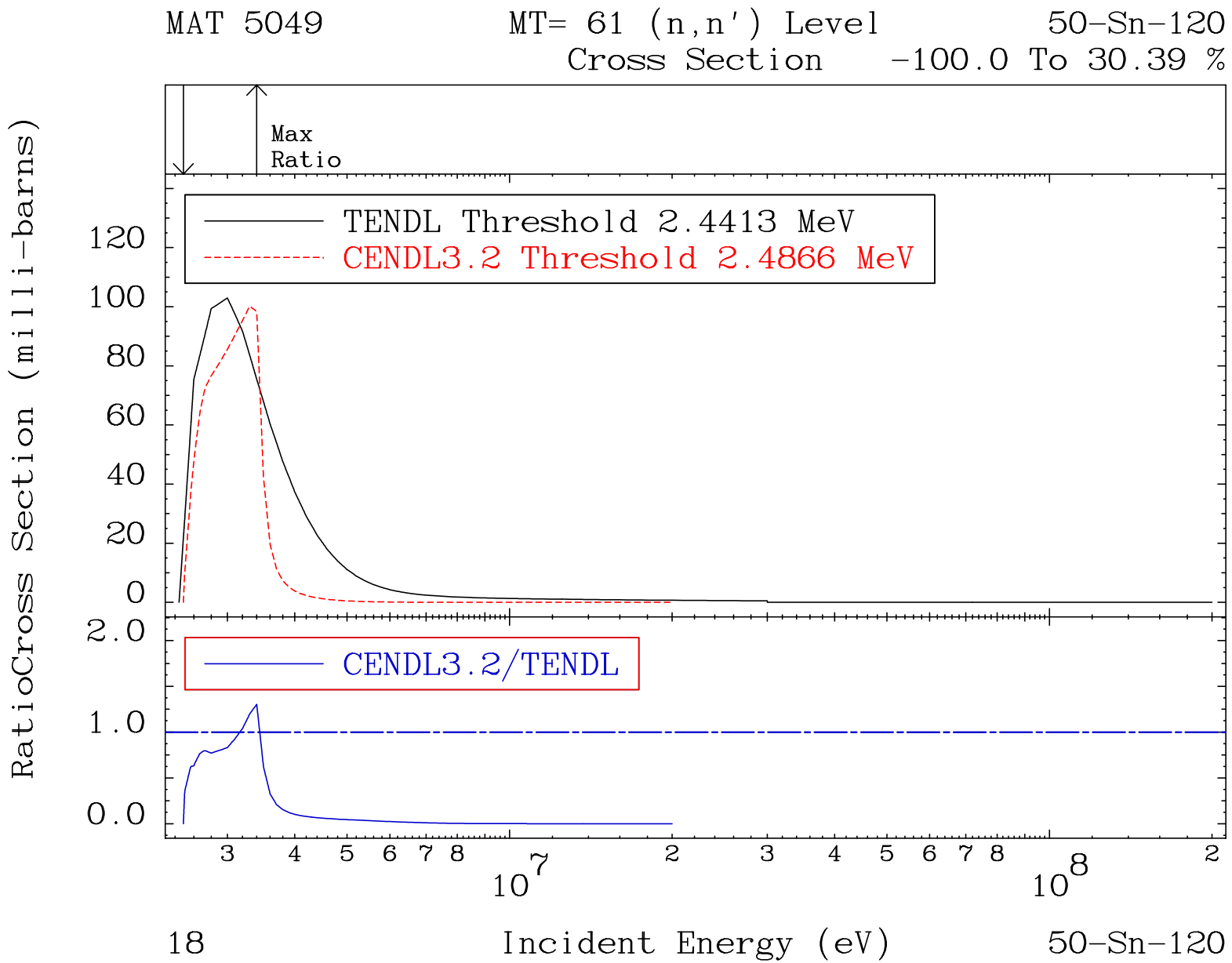

MAT 5049
MT= 56 (n,n') Level
50-Sn-120
Cross Section
-100.0 To -0.733%
Max
Ratio
TENDL Threshold 2.2128 MeV
CENDL3.2 Threshold 2.3035 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
50-Sn-120

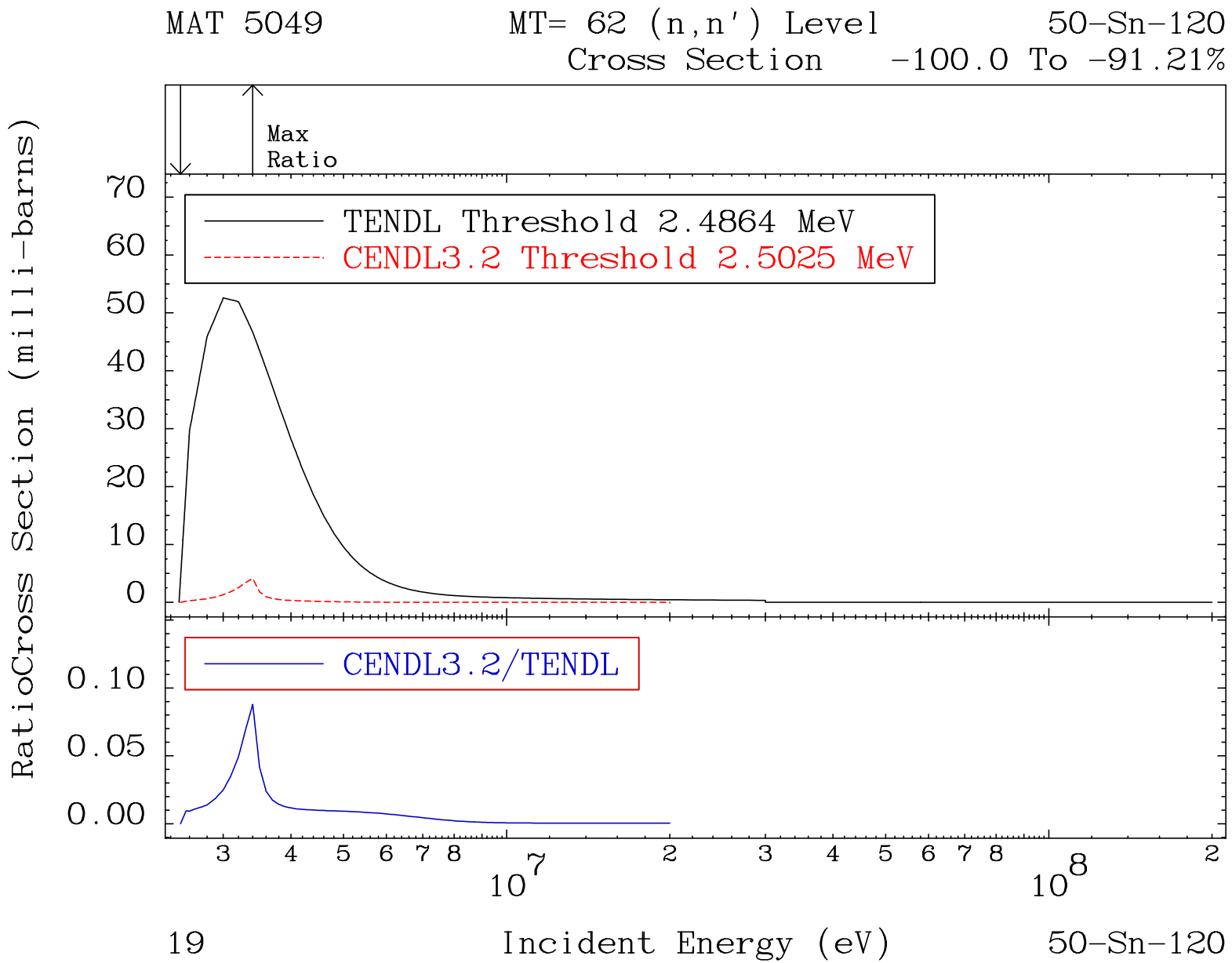

MAT 5049
MT= 57 (n,n') Level
50-Sn-120
Cross Section
-100.0 To 20.69 %
Max
Ratio
TENDL Threshold 2.3035 MeV
CENDL3.2 Threshold 2.3093 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
50-Sn-120

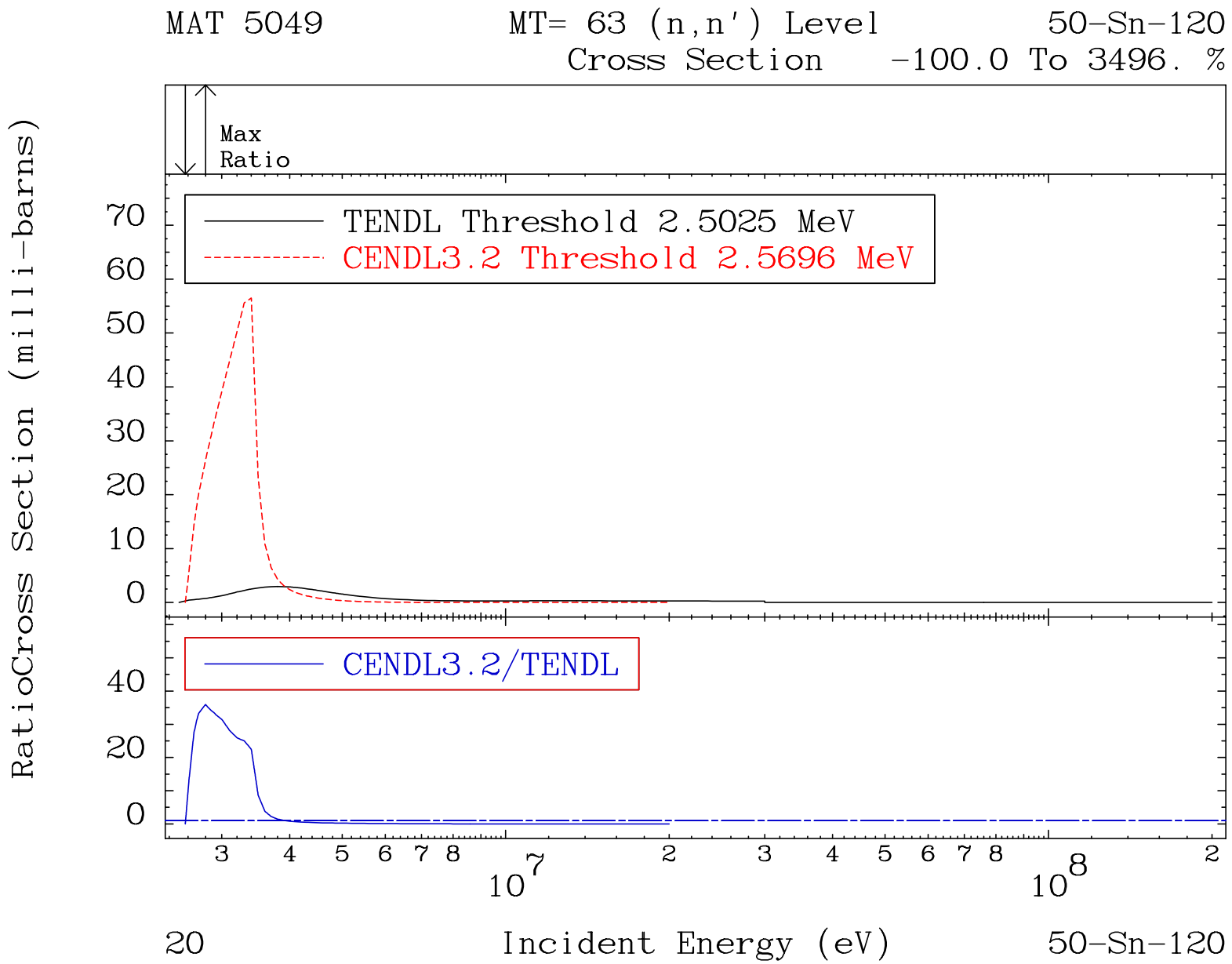

MAT 5049
MT= 58 (n,n') Level
50-Sn-120
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.3163 MeV
CENDL3.2 Threshold 2.3751 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
12
6
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
50-Sn-120

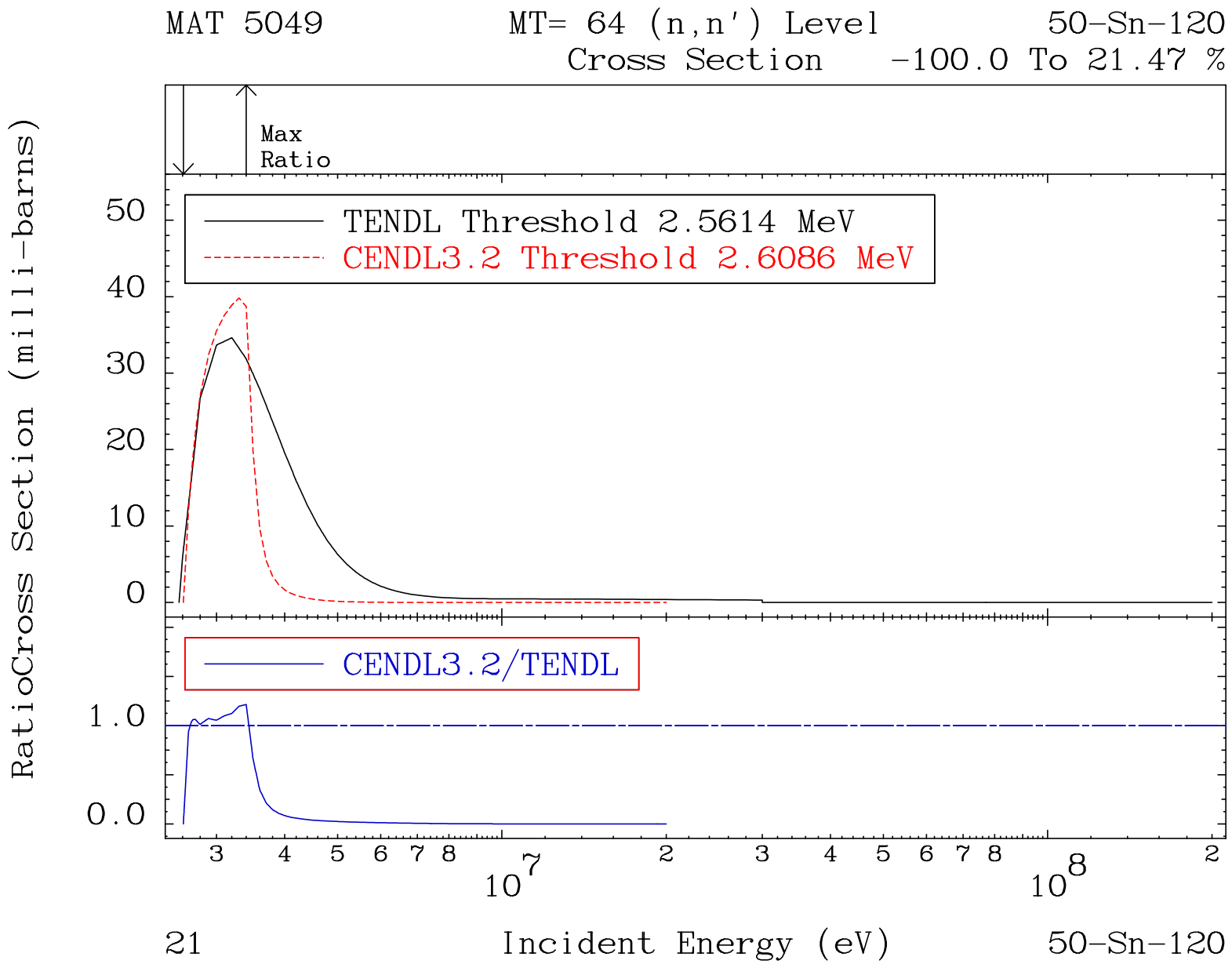

MAT 5049
MT= 59 (n,n') Level
50-Sn-120
Cross Section -100.0 To 5858. %
Min Ratio
Max Ratio
TENDL Threshold 2.3752 MeV
CENDL3.2 Threshold 2.4199 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
80
40
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
50-Sn-120

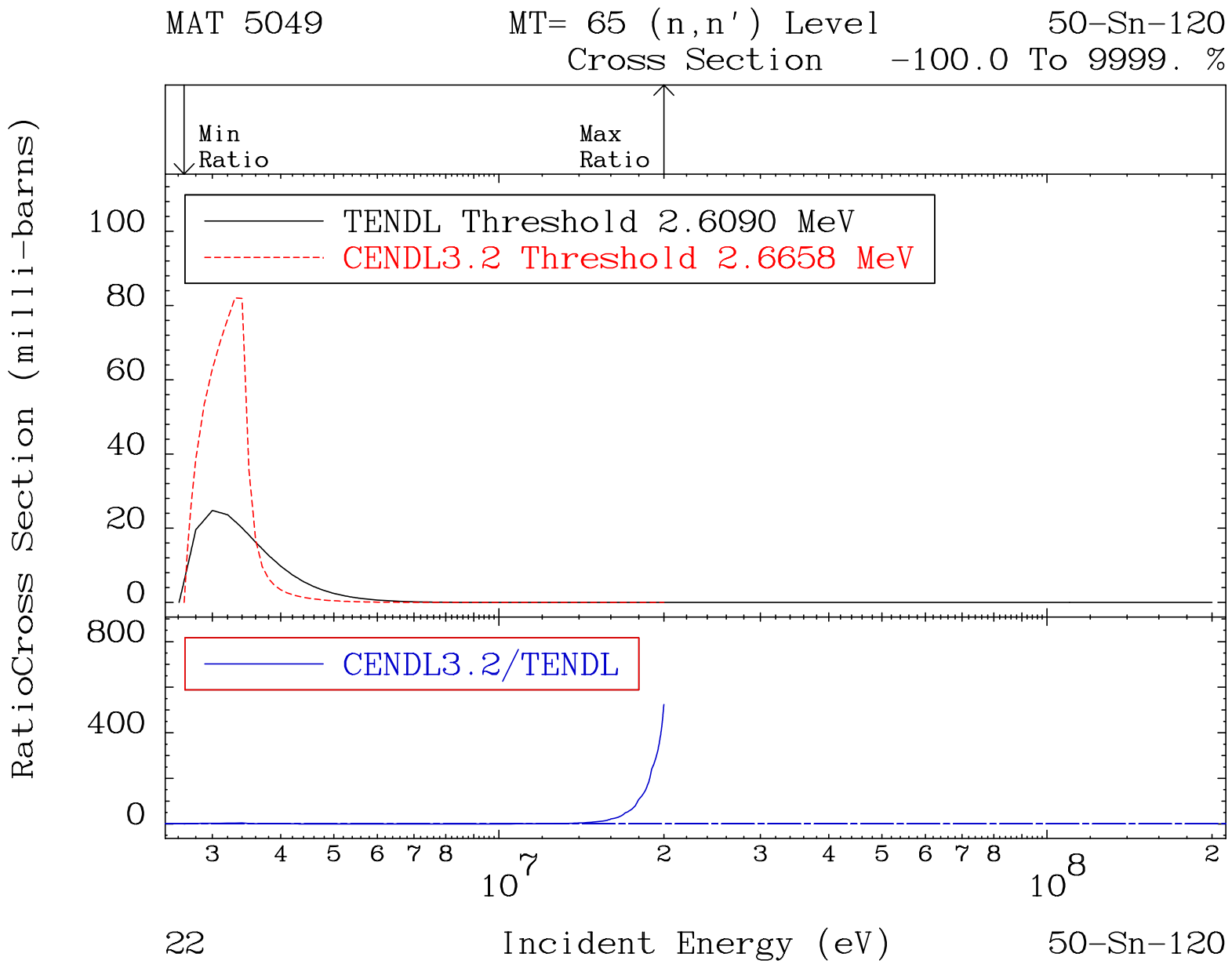

MAT 5049
MT= 60 (n,n') Level
50-Sn-120
Cross Section
-100.0 To 17.53 %
Max
Ratio
TENDL Threshold 2.4205 MeV
CENDL3.2 Threshold 2.4417 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
50-Sn-120

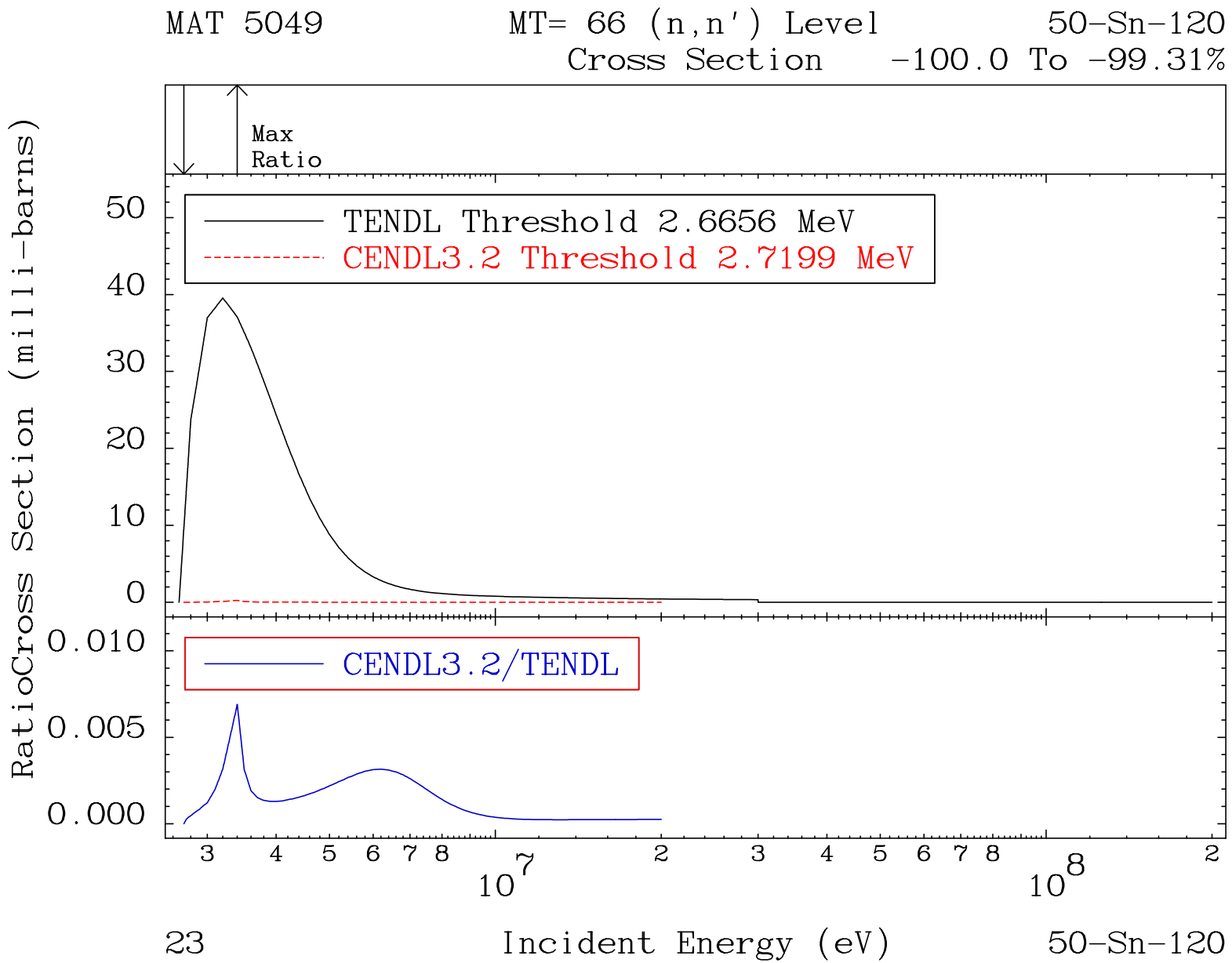

MAT 5049
MT= 61 (n,n') Level
50-Sn-120
Cross Section -100.0 To 30.39 %
Max
Ratio
TENDL Threshold 2.4413 MeV
CENDL3.2 Threshold 2.4866 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
50-Sn-120

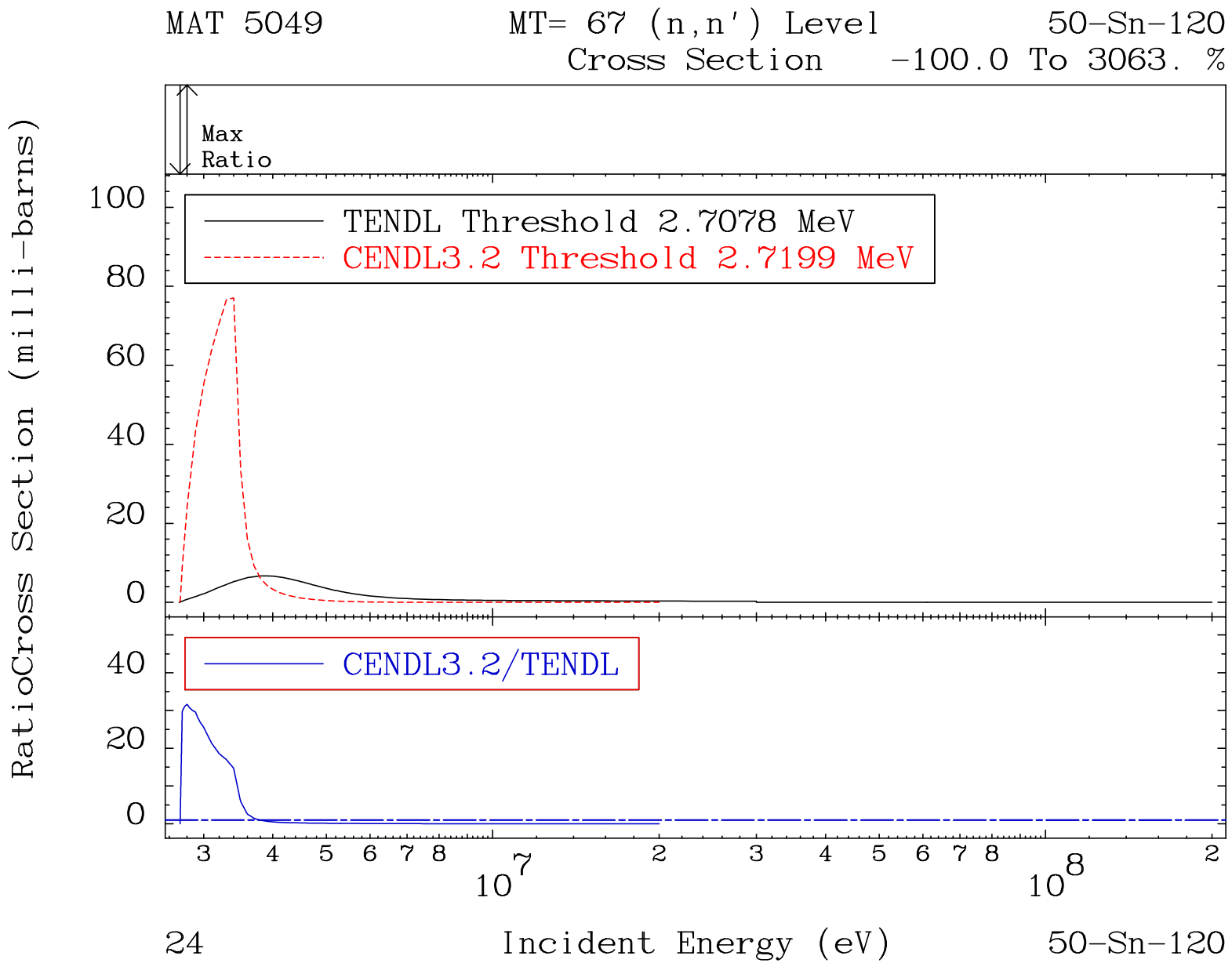

MAT 5049
MT= 62 (n,n') Level
50-Sn-120
Cross Section
-100.0 To -91.21%
Max
Ratio
TENDL Threshold 2.4864 MeV
CENDL3.2 Threshold 2.5025 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
0.10
0.05
0.00
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
50-Sn-120

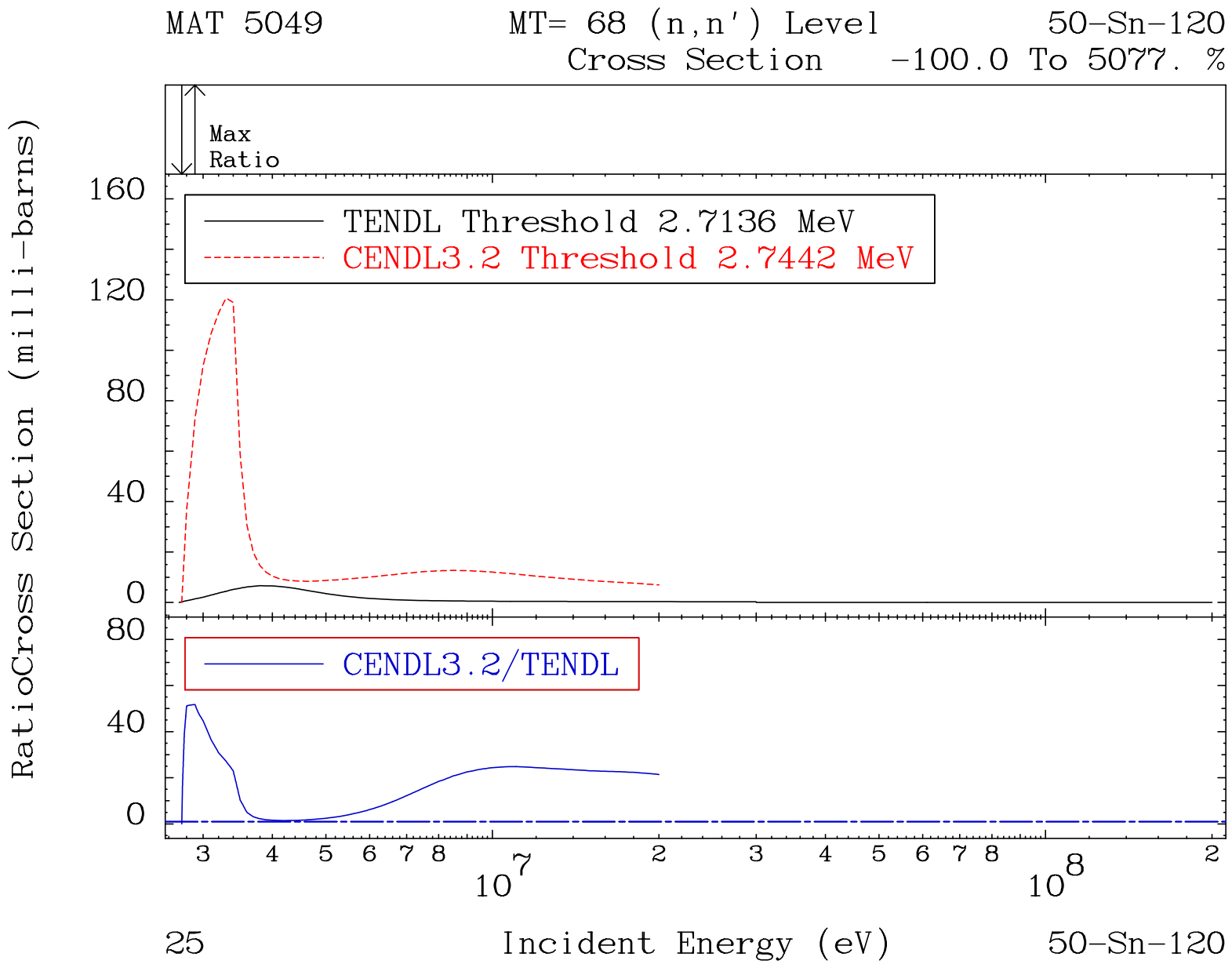

MAT 5049
MT= 63 (n,n') Level
50-Sn-120
Cross Section
-100.0 To 3496. %
Max
Ratio
TENDL Threshold 2.5025 MeV
CENDL3.2 Threshold 2.5696 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
40
20
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
50-Sn-120

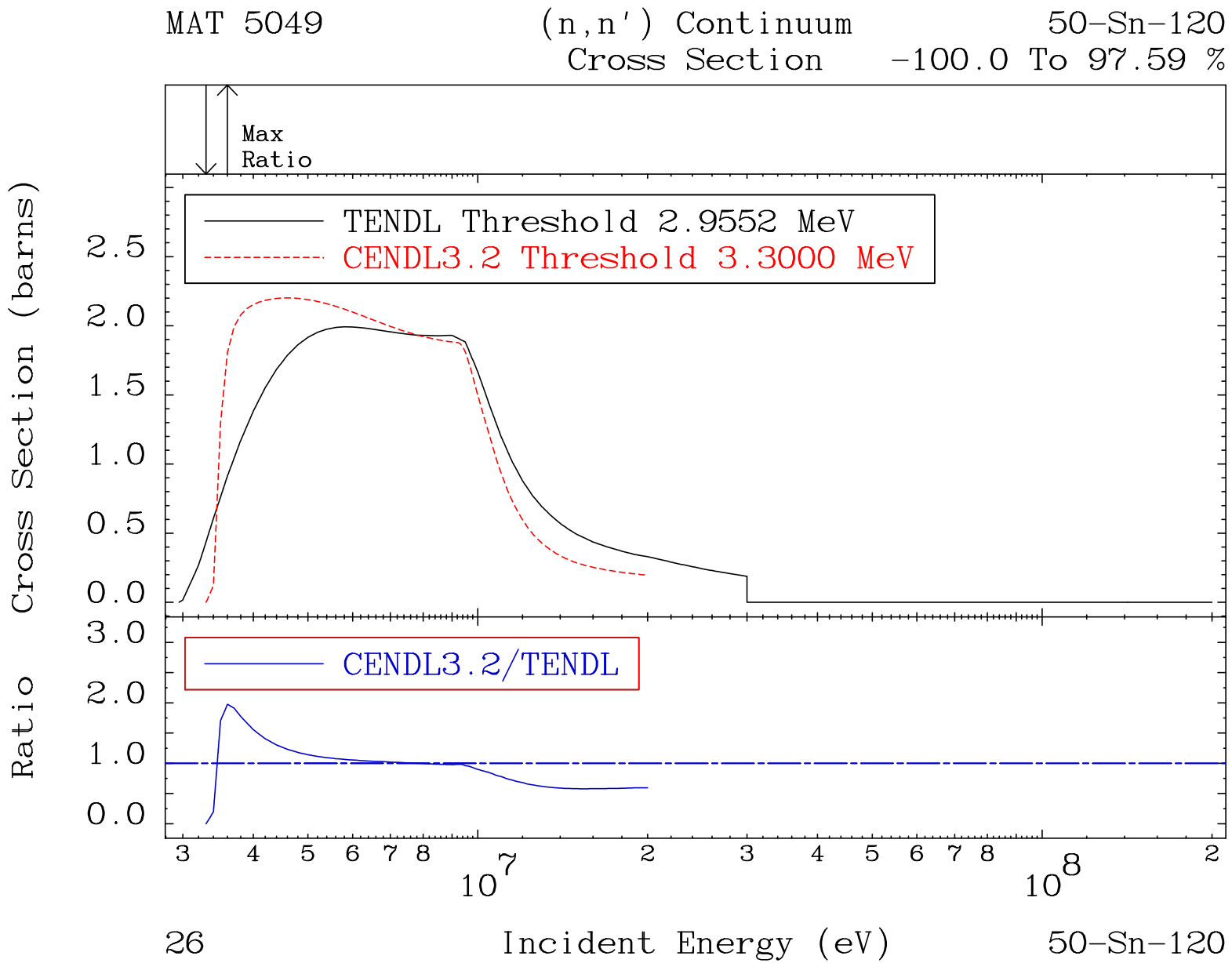

MAT 5049
MT= 64 (n,n') Level
50-Sn-120
Cross Section
-100.0 To 21.47 %
Max
Ratio
TENDL Threshold 2.5614 MeV
CENDL3.2 Threshold 2.6086 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
50-Sn-120

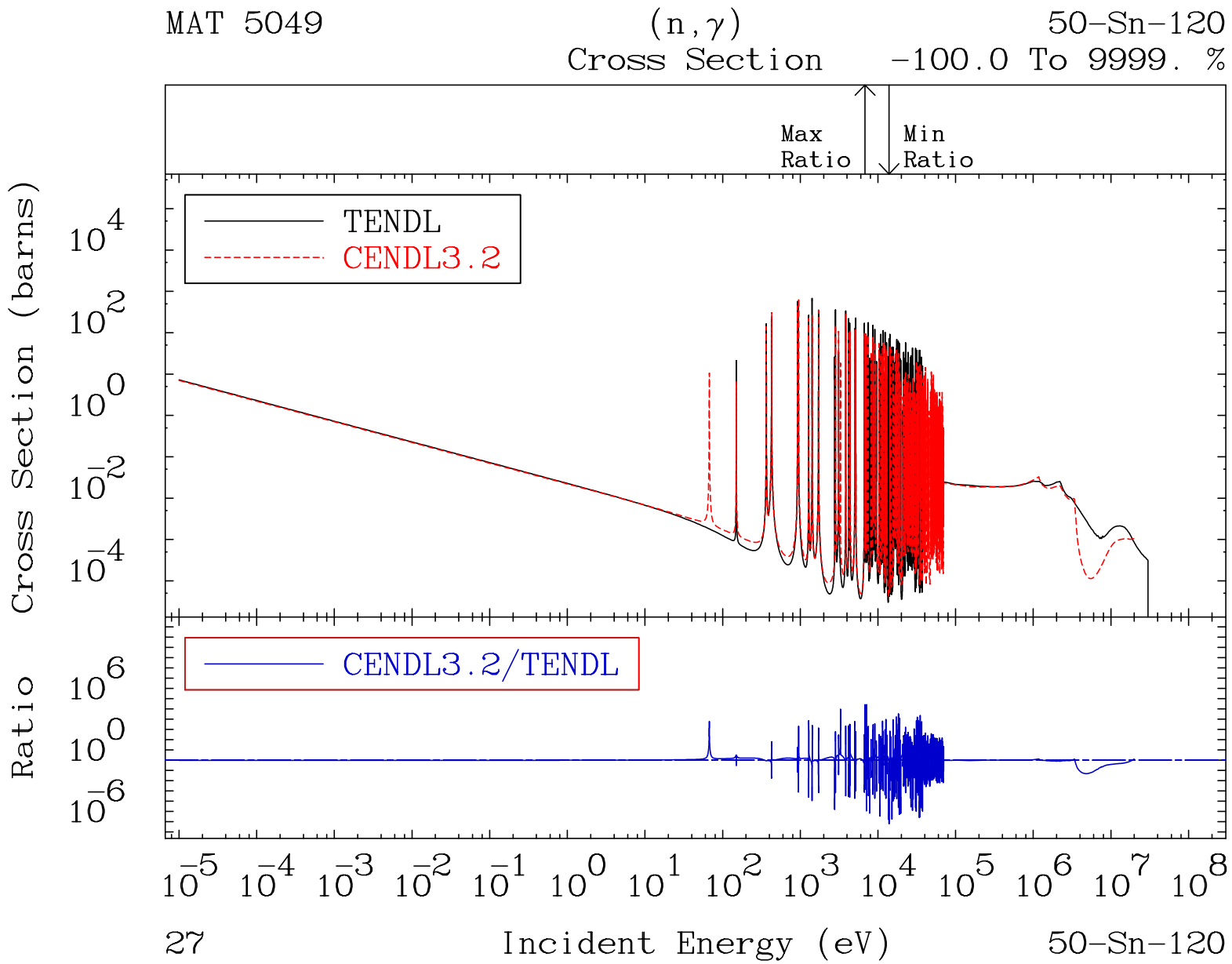

MAT 5049
MT= 65 (n,n') Level
50-Sn-120
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6090 MeV
CENDL3.2 Threshold 2.6658 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
800
400
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
50-Sn-120

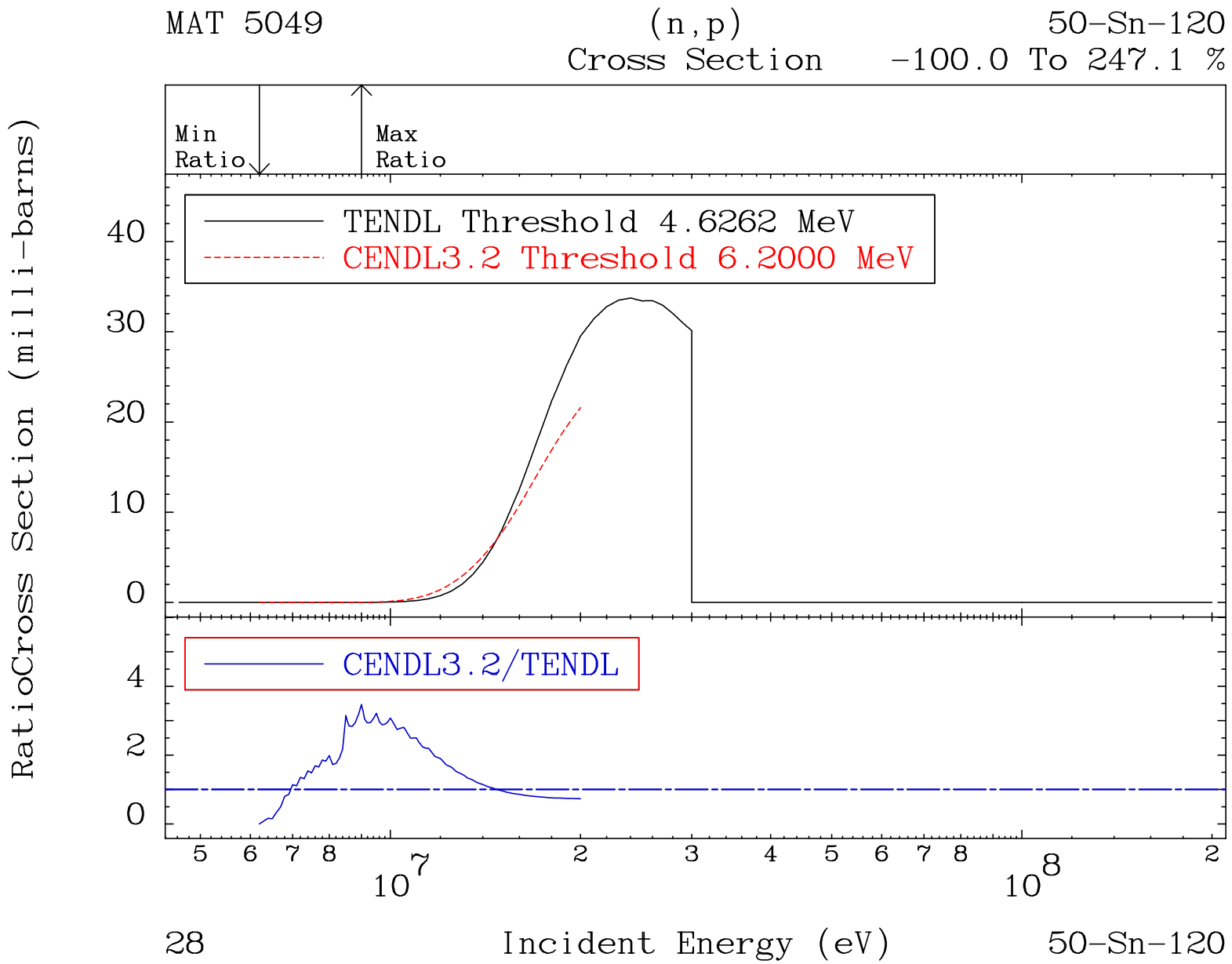

MAT 5049
MT= 66 (n,n') Level
50-Sn-120
Cross Section
-100.0 To -99.31%
Max
Ratio
TENDL Threshold 2.6656 MeV
CENDL3.2 Threshold 2.7199 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
0.010
0.005
0.000
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
50-Sn-120

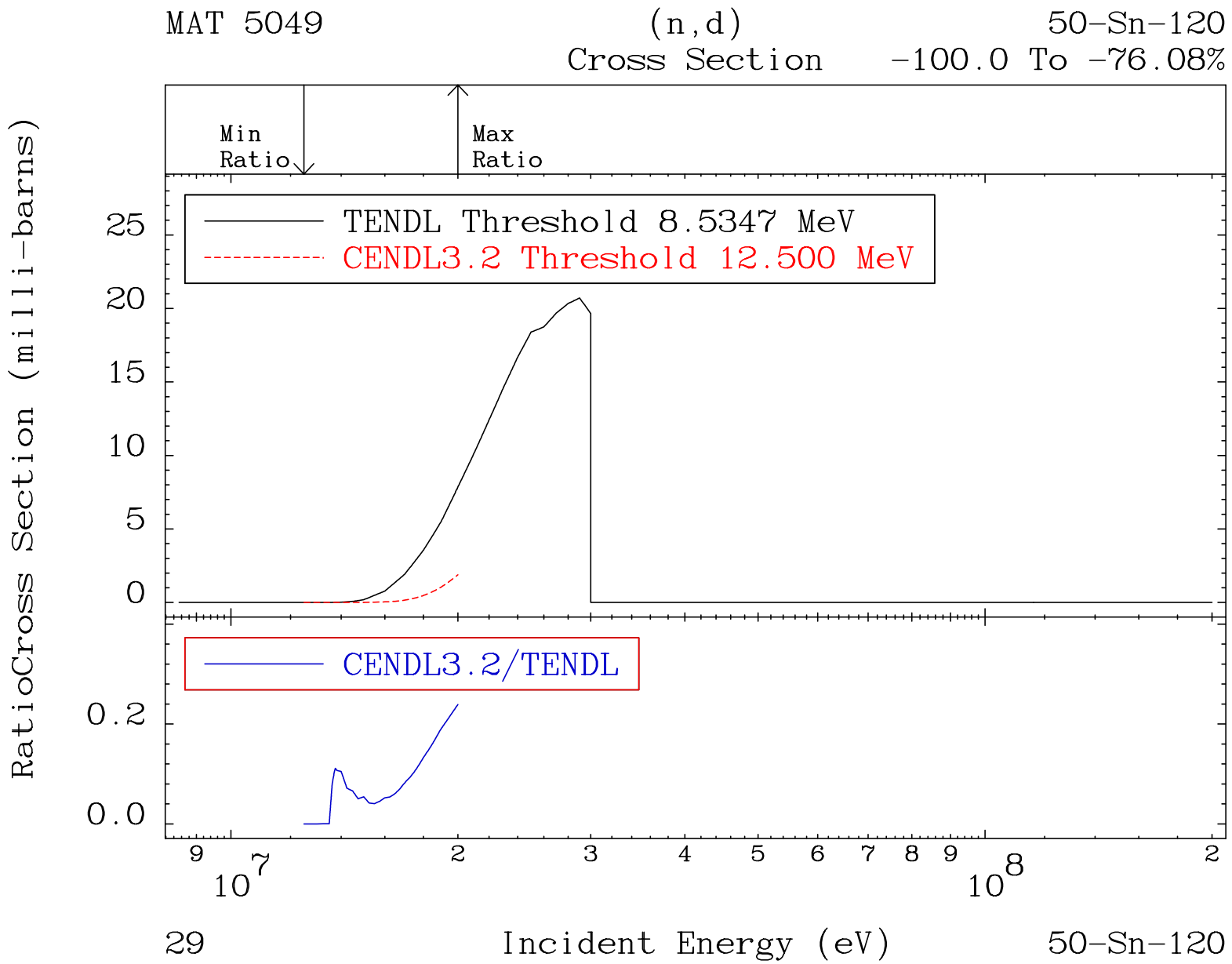

MAT 5049
MT= 67 (n,n') Level
50-Sn-120
Cross Section
-100.0 To 3063. %
Max
Ratio
TENDL Threshold 2.7078 MeV
CENDL3.2 Threshold 2.7199 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
40
20
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
50-Sn-120

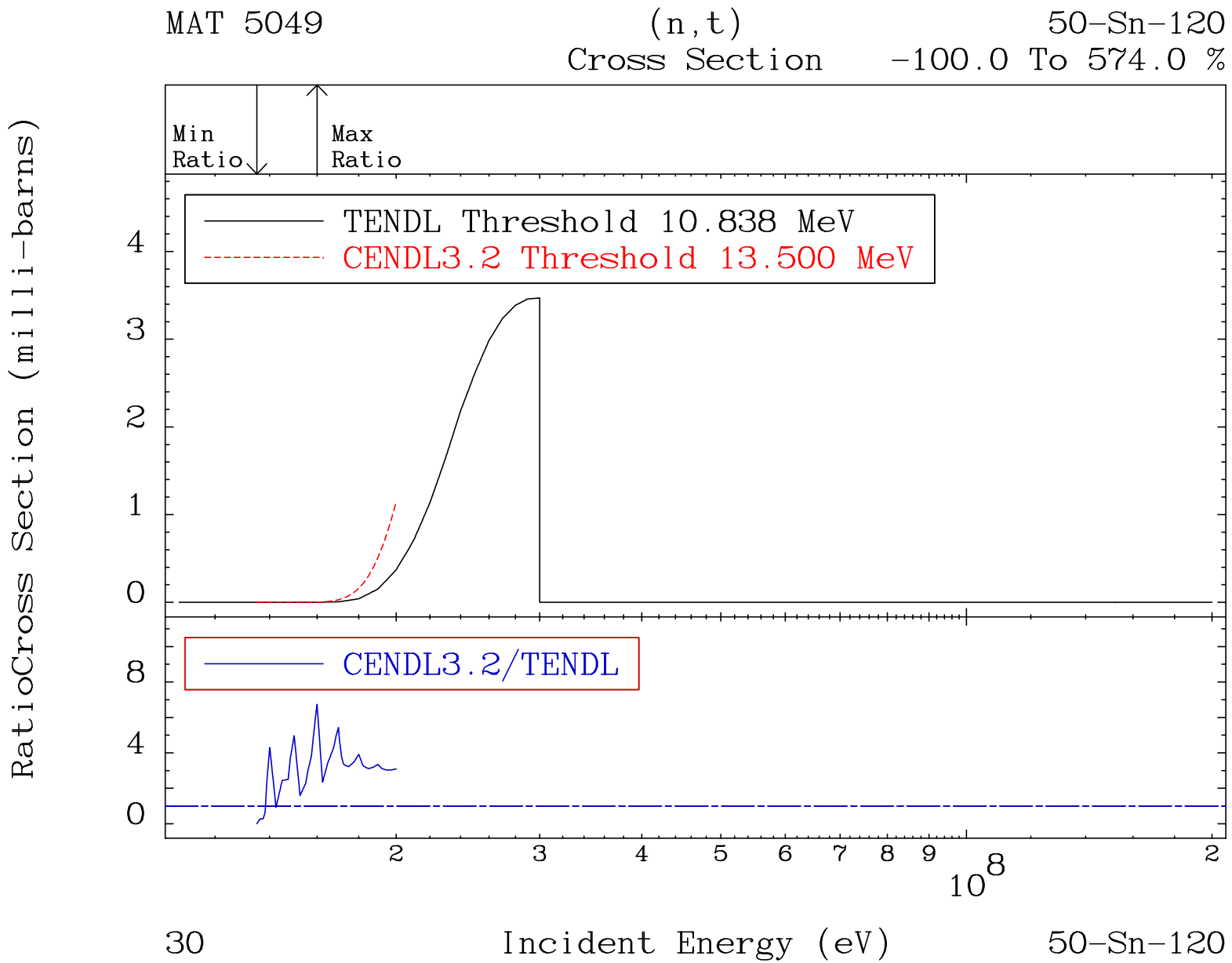

MAT 5049
MT= 68 (n,n') Level
50-Sn-120
Cross Section
-100.0 To 5077. %
Max
Ratio
160
120
80
40
0
TENDL Threshold 2.7136 MeV
CENDL3.2 Threshold 2.7442 MeV
80
40
0
CENDL3.2/TENDL
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
RatioCross Section (milli-barns)
25
Incident Energy (eV)
50-Sn-120

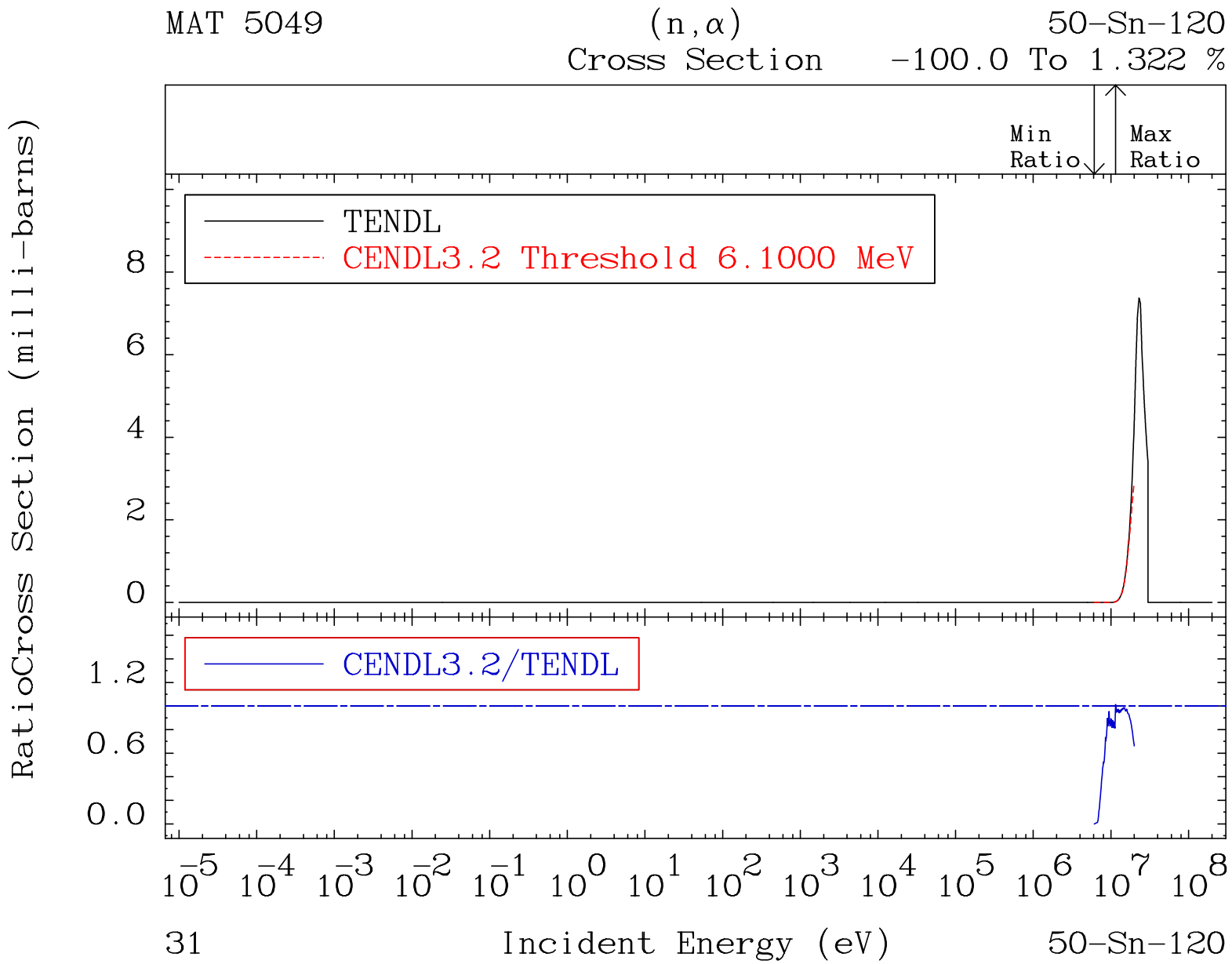

MAT 5049
(n,n') Continuum
Cross Section
50-Sn-120
-100.0 To 97.59 %
Max
Ratio
TENDL Threshold 2.9552 MeV
CENDL3.2 Threshold 3.3000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
3.0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
26
50-Sn-120

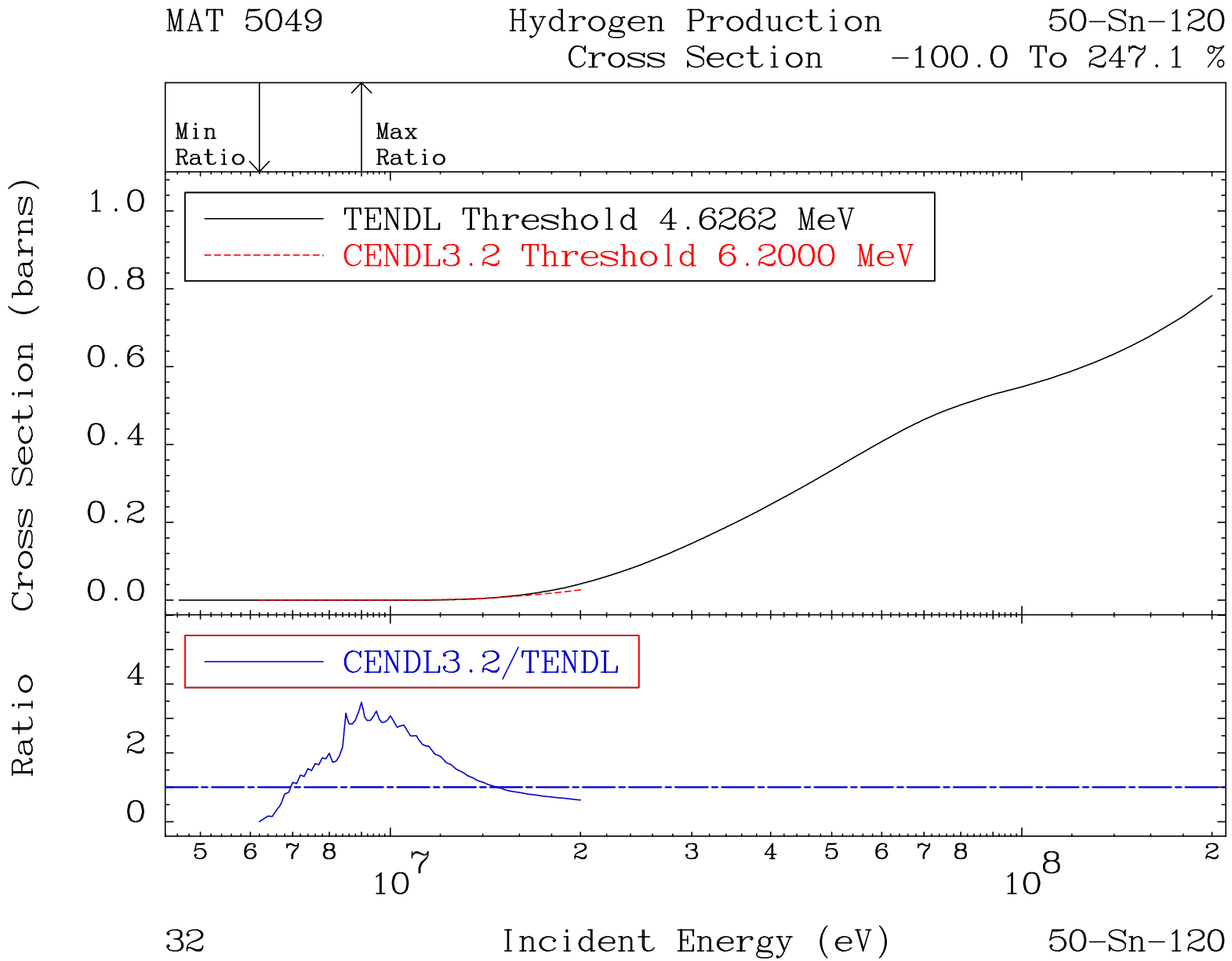

MAT 5049
(n,γ)
Cross Section
50-Sn-120
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
27
50-Sn-120

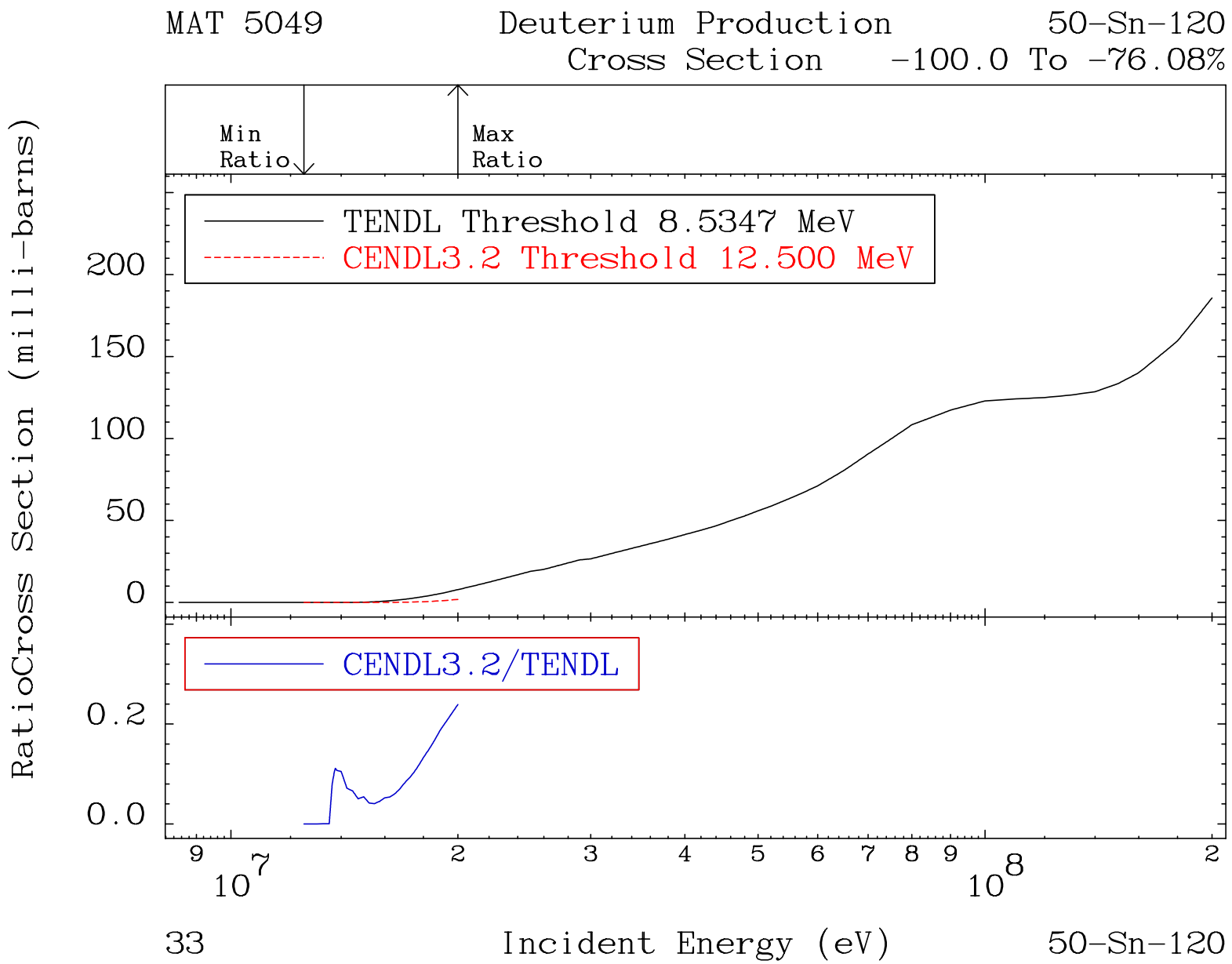

MAT 5049
(n,p)
50-Sn-120
Cross Section
-100.0 To 247.1 %
Min Ratio
Max Ratio
TENDL Threshold 4.6262 MeV
CENDL3.2 Threshold 6.2000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
50-Sn-120

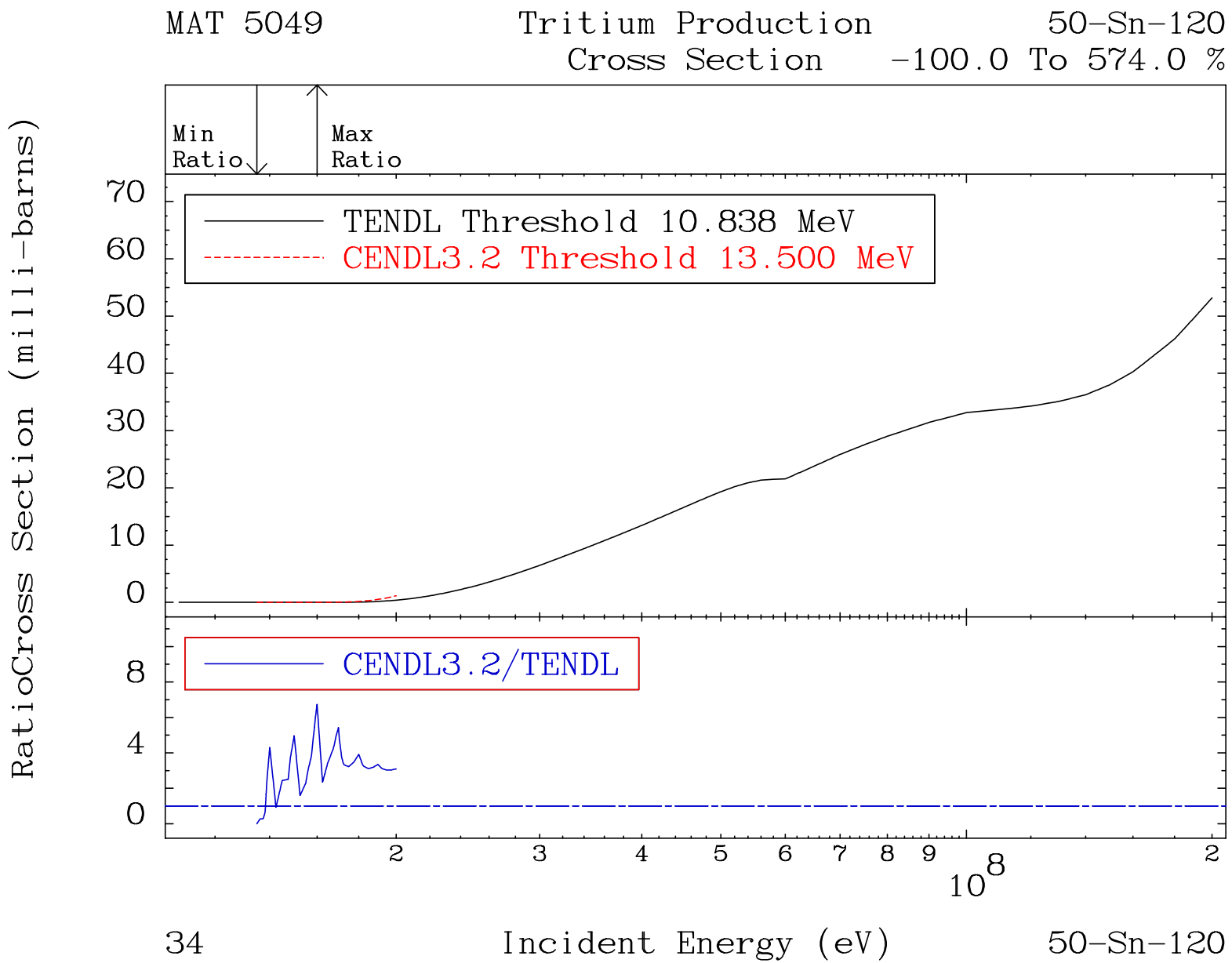

MAT 5049
(n,d)
50-Sn-120
Cross Section
-100.0 To -76.08%
Min Ratio
Max Ratio
TENDL Threshold 8.5347 MeV
CENDL3.2 Threshold 12.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
0.2
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
50-Sn-120

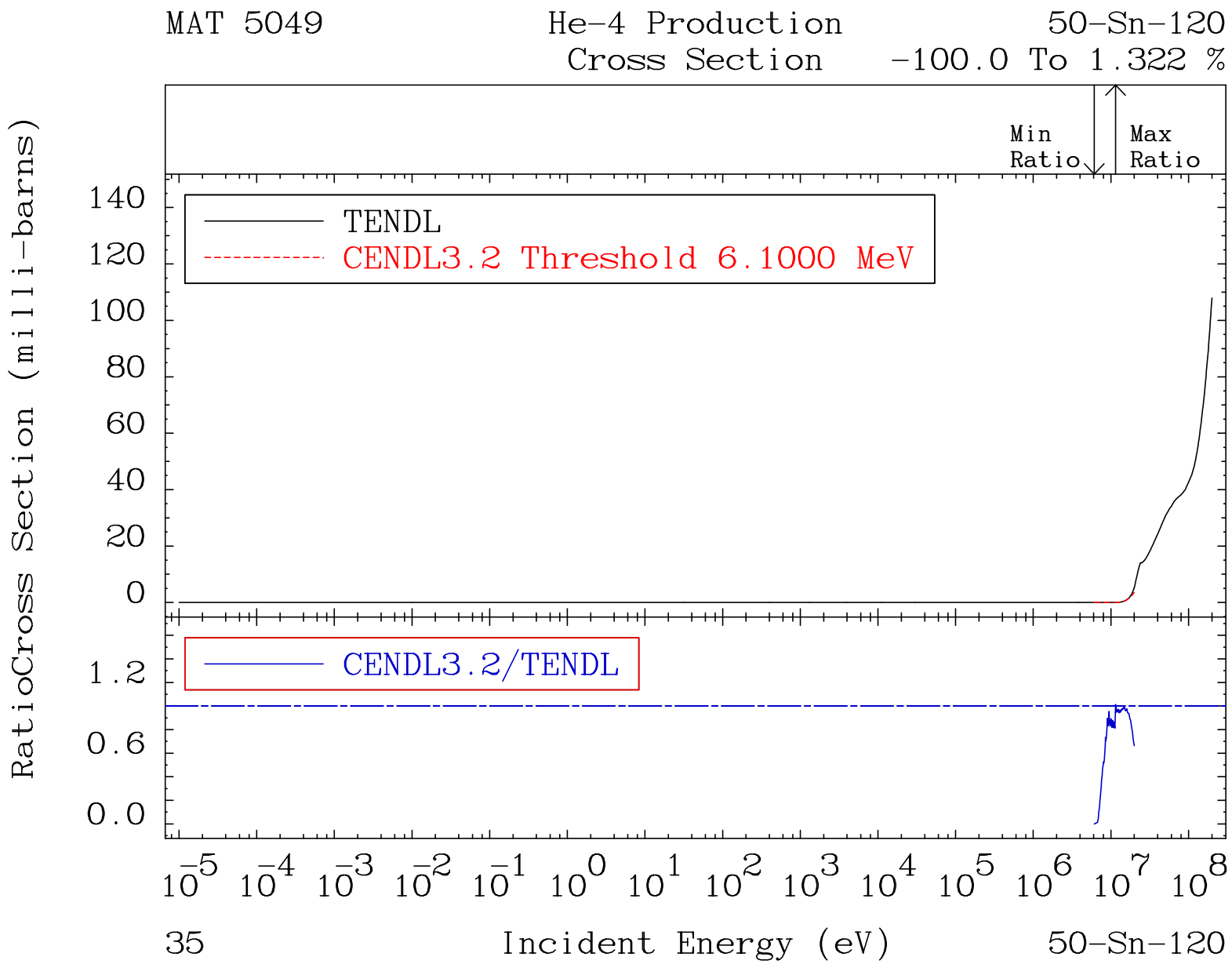

MAT 5049
(n,t)
Cross Section
50-Sn-120
-100.0 To 574.0 %
Min Ratio
Max Ratio
TENDL Threshold 10.838 MeV
CENDL3.2 Threshold 13.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
30
50-Sn-120

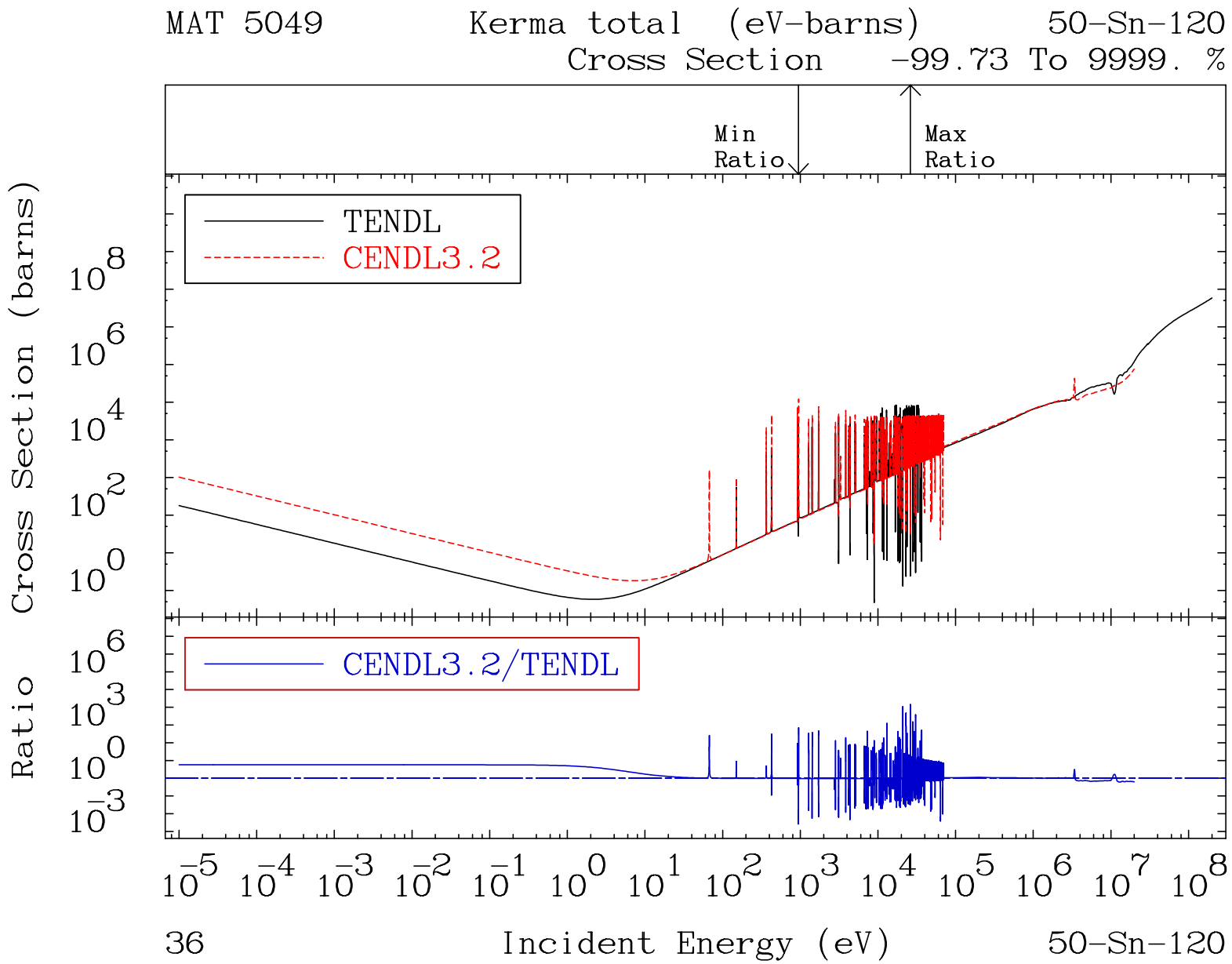

MAT 5049
(n,α)
Cross Section
50-Sn-120
-100.0 To 1.322 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 6.1000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
0.0
0.6
1.2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
31
50-Sn-120

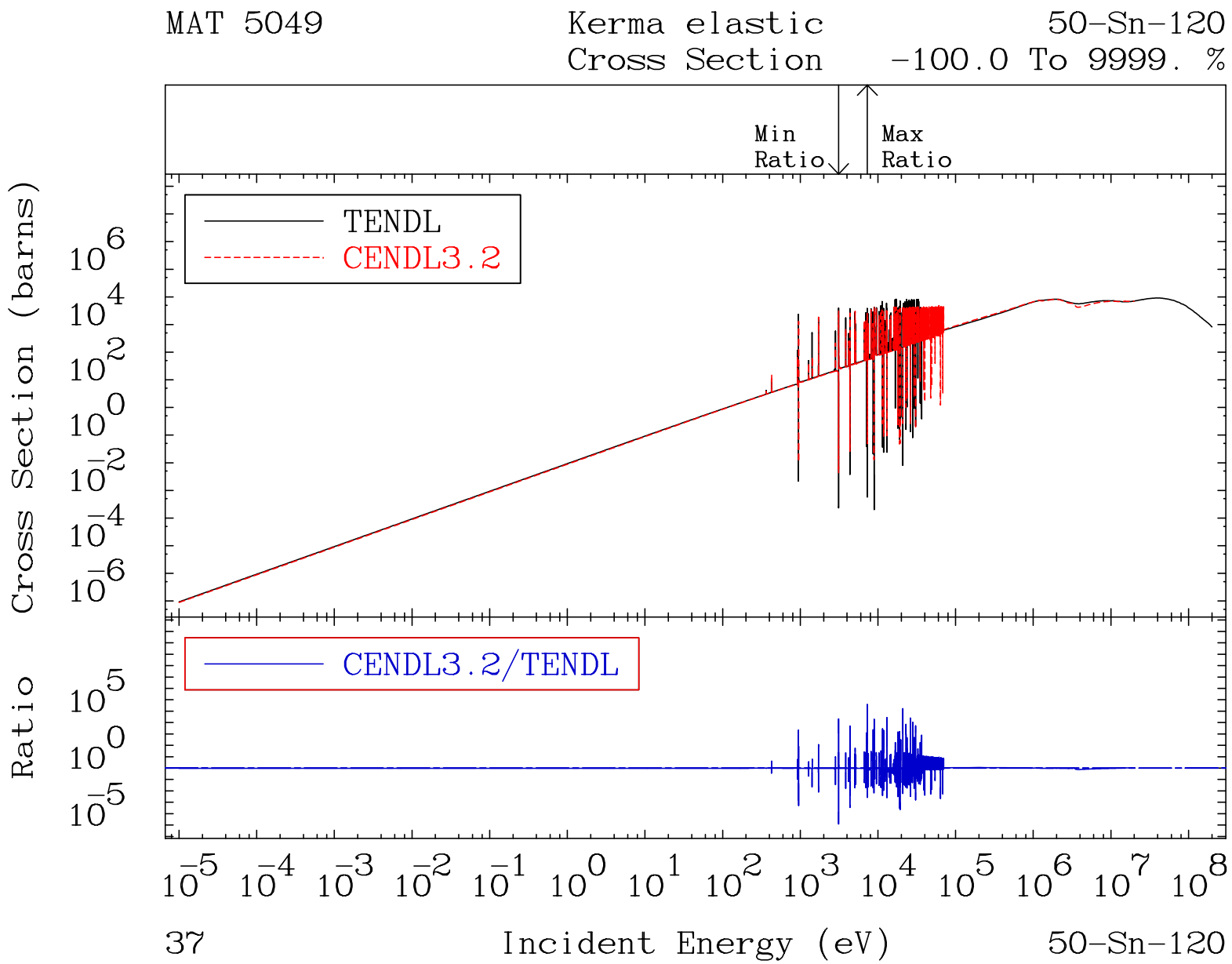

MAT 5049
Hydrogen Production
50-Sn-120
Cross Section
-100.0 To 247.1 %
Min Ratio
Max Ratio
TENDL Threshold 4.6262 MeV
CENDL3.2 Threshold 6.2000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
4
2
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
50-Sn-120

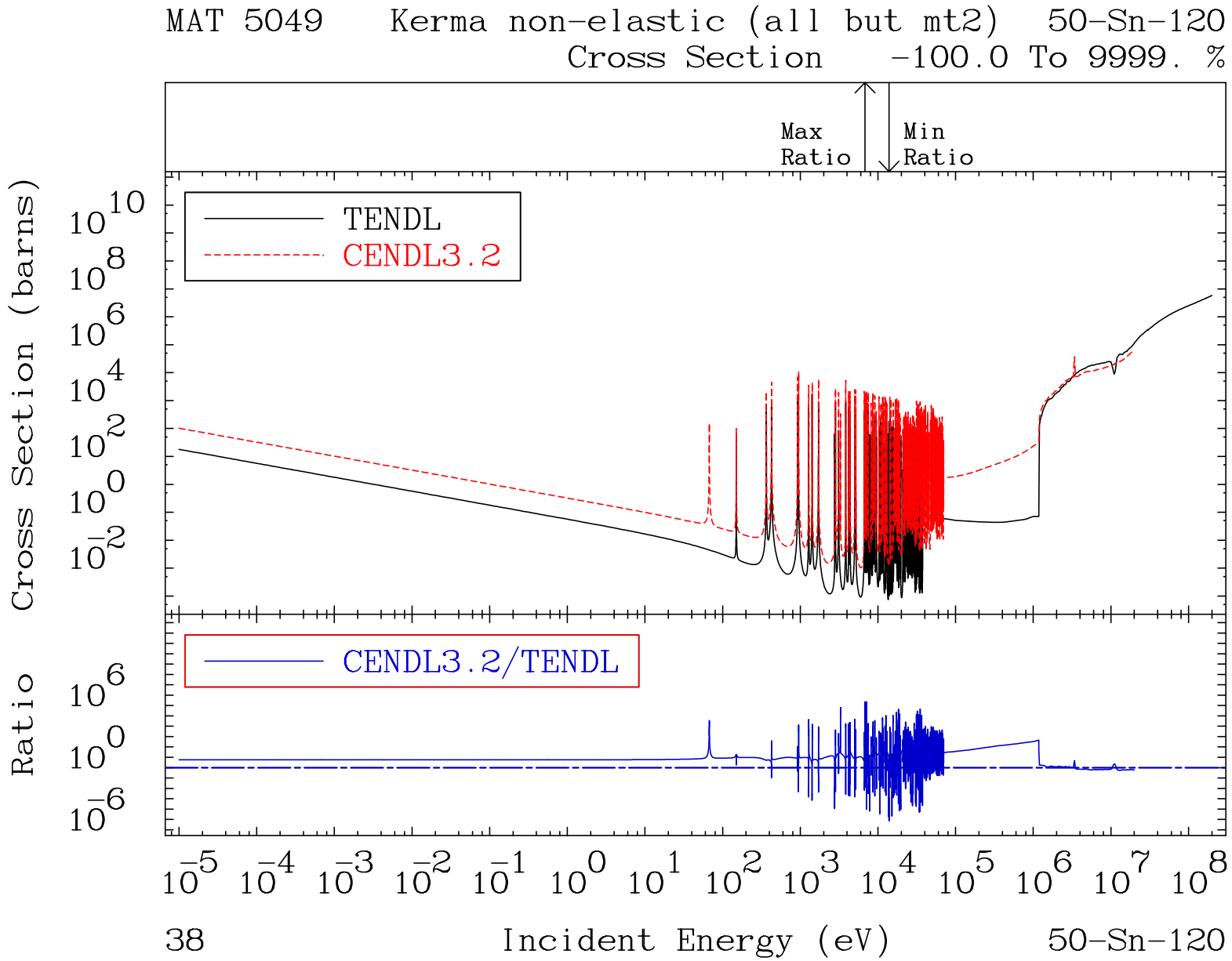

MAT 5049
Deuterium Production
50-Sn-120
Cross Section
-100.0 To -76.08%
Min Ratio
Max Ratio
TENDL Threshold 8.5347 MeV
CENDL3.2 Threshold 12.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
0.2
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
33
Incident Energy (eV)
50-Sn-120

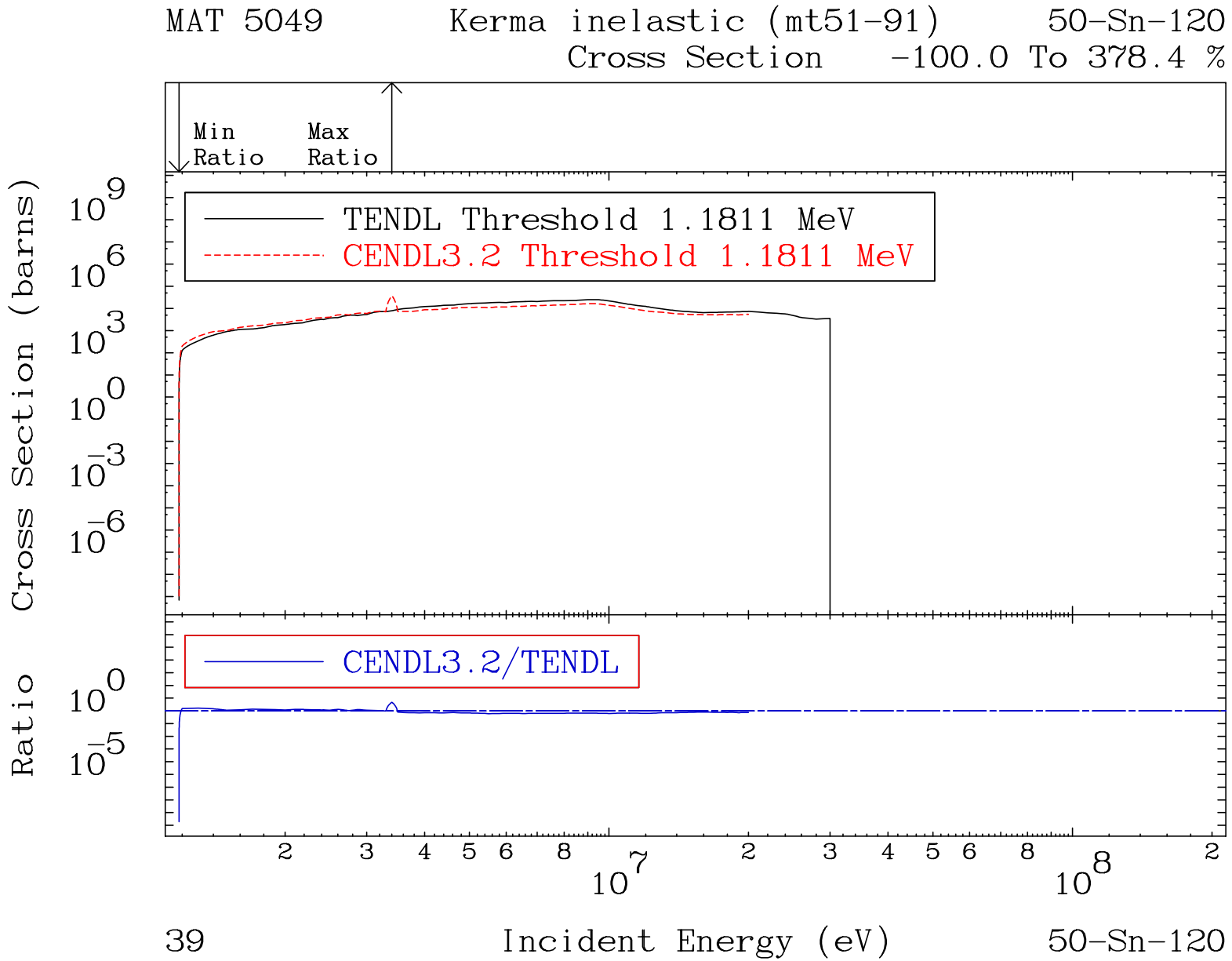

MAT 5049
Tritium Production
50-Sn-120
Cross Section
-100.0 To 574.0 %
Min Ratio
Max Ratio
TENDL Threshold 10.838 MeV
CENDL3.2 Threshold 13.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
34
Incident Energy (eV)
50-Sn-120

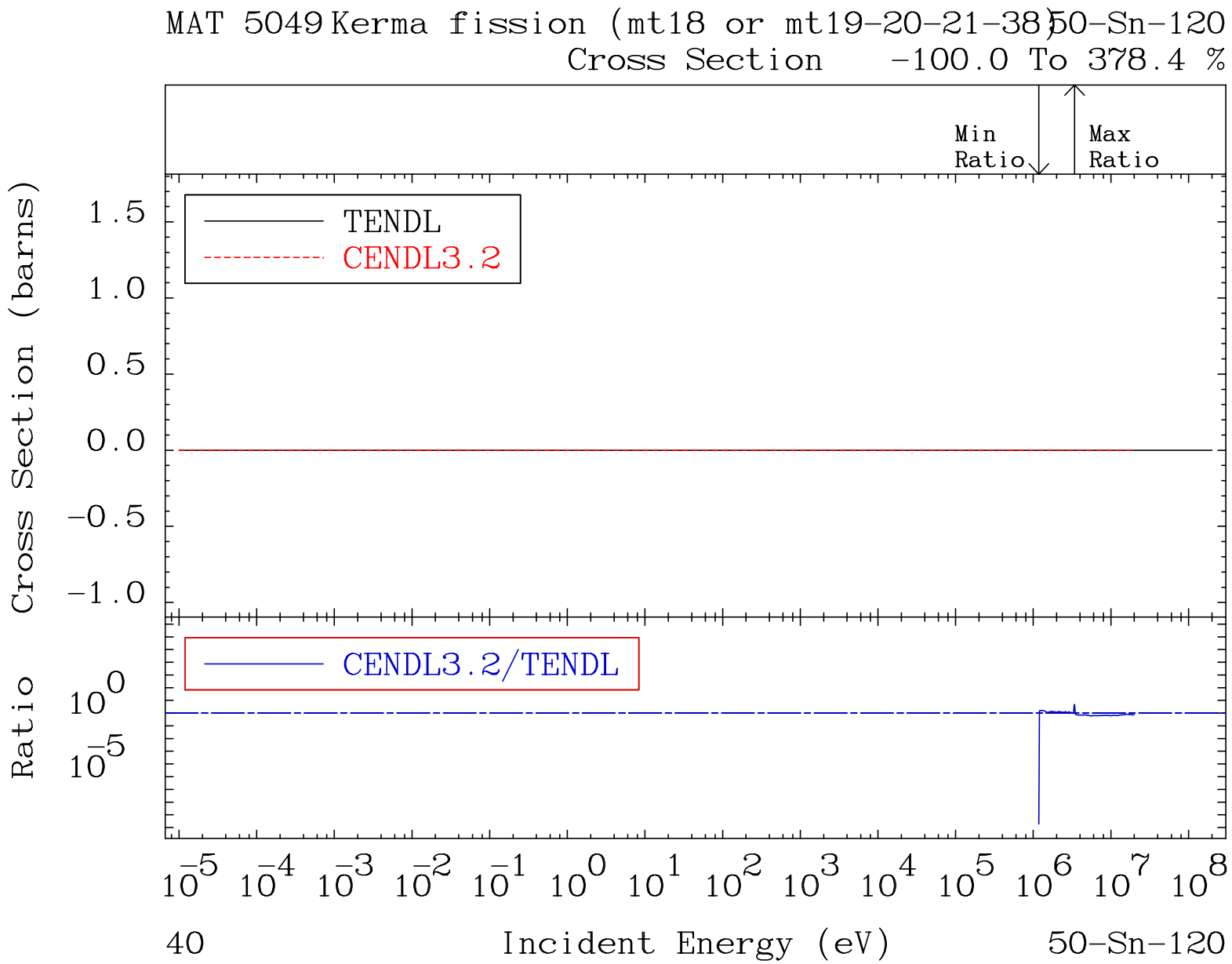

MAT 5049
He-4 Production
Cross Section
50-Sn-120
-100.0 To 1.322 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 6.1000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.2
0.6
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
35
Incident Energy (eV)
50-Sn-120

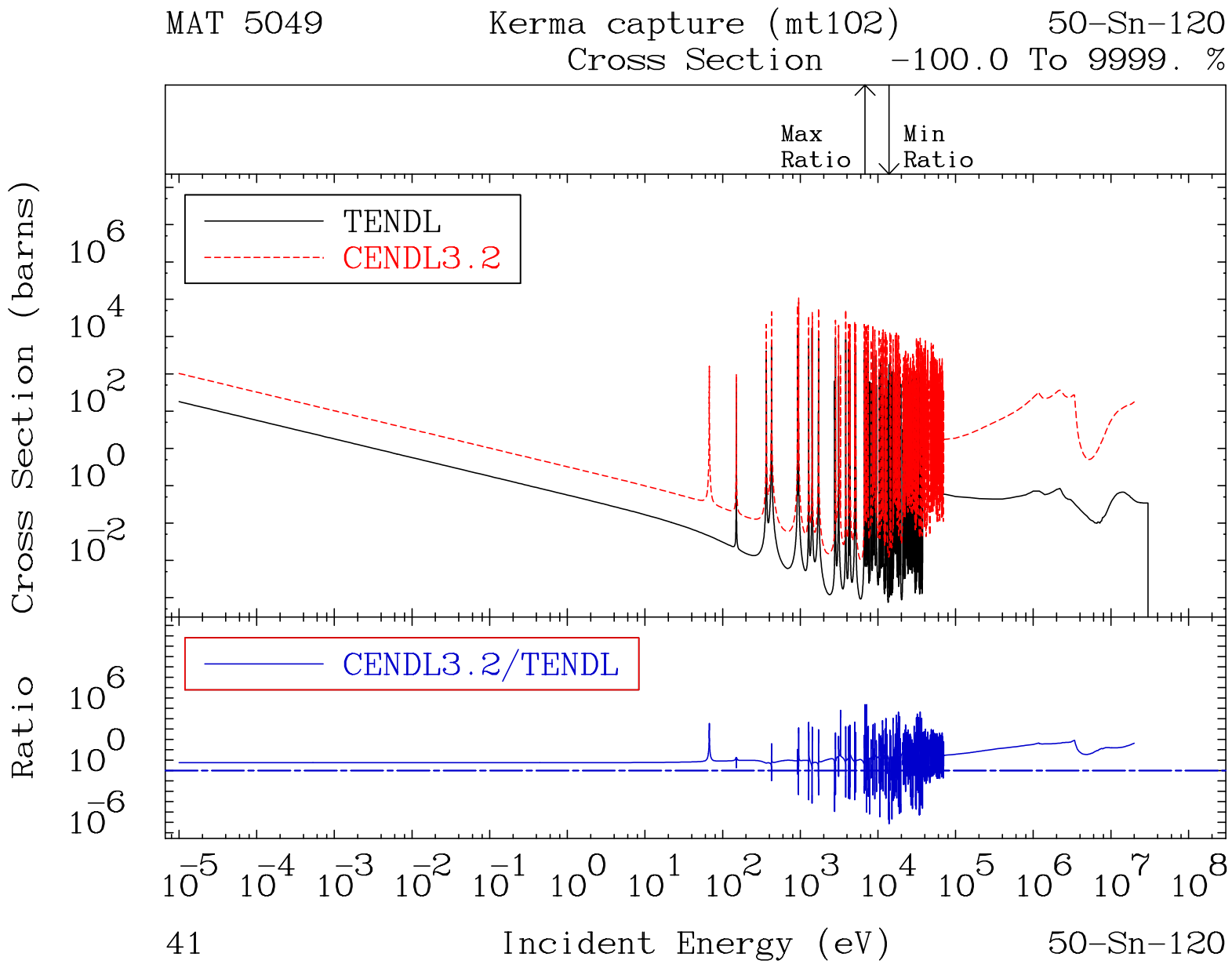

MAT 5049
Kerma total (eV-barns)
50-Sn-120
Cross Section -99.73 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
50-Sn-120

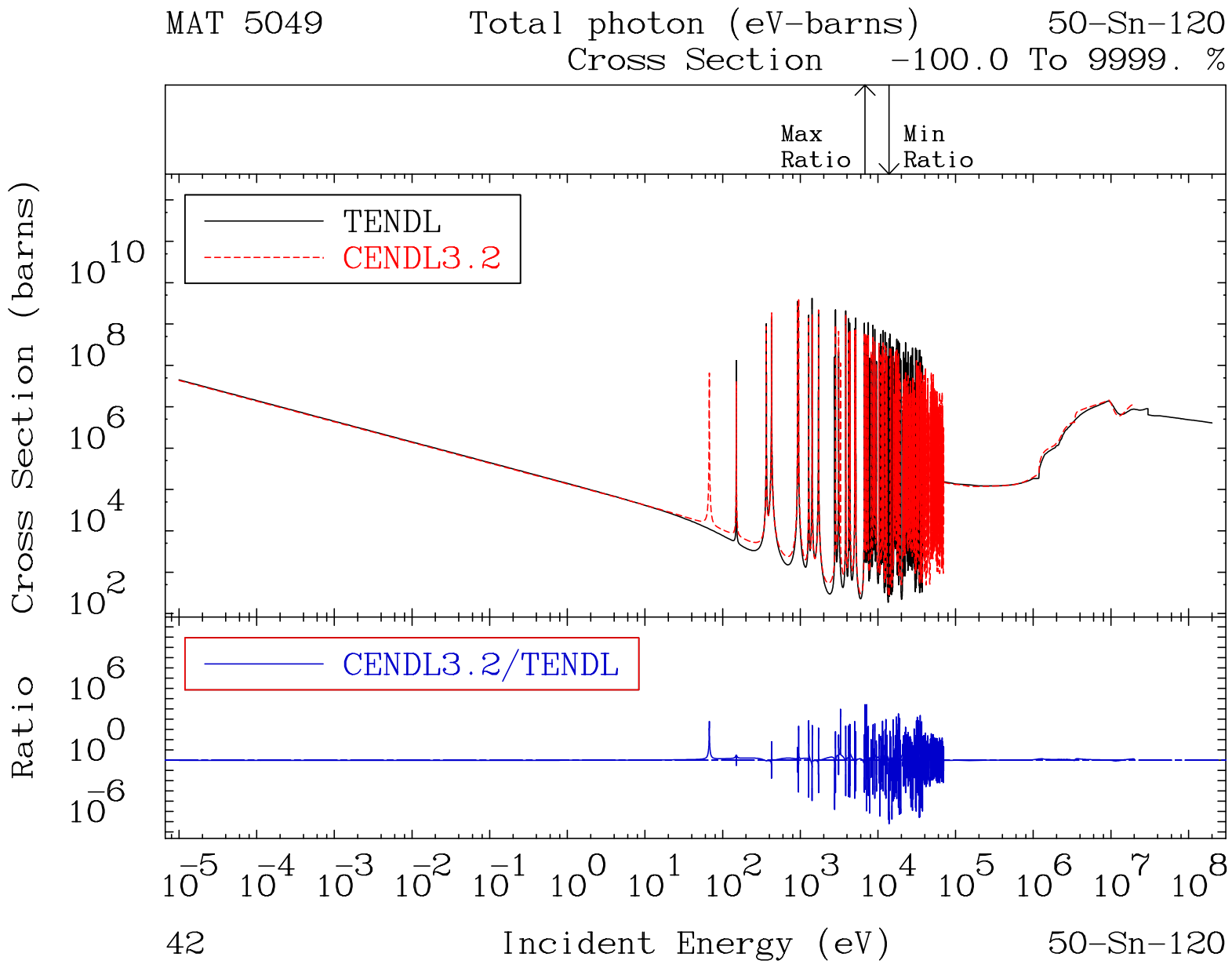

MAT 5049
Kerma elastic
Cross Section
50-Sn-120
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
50-Sn-120

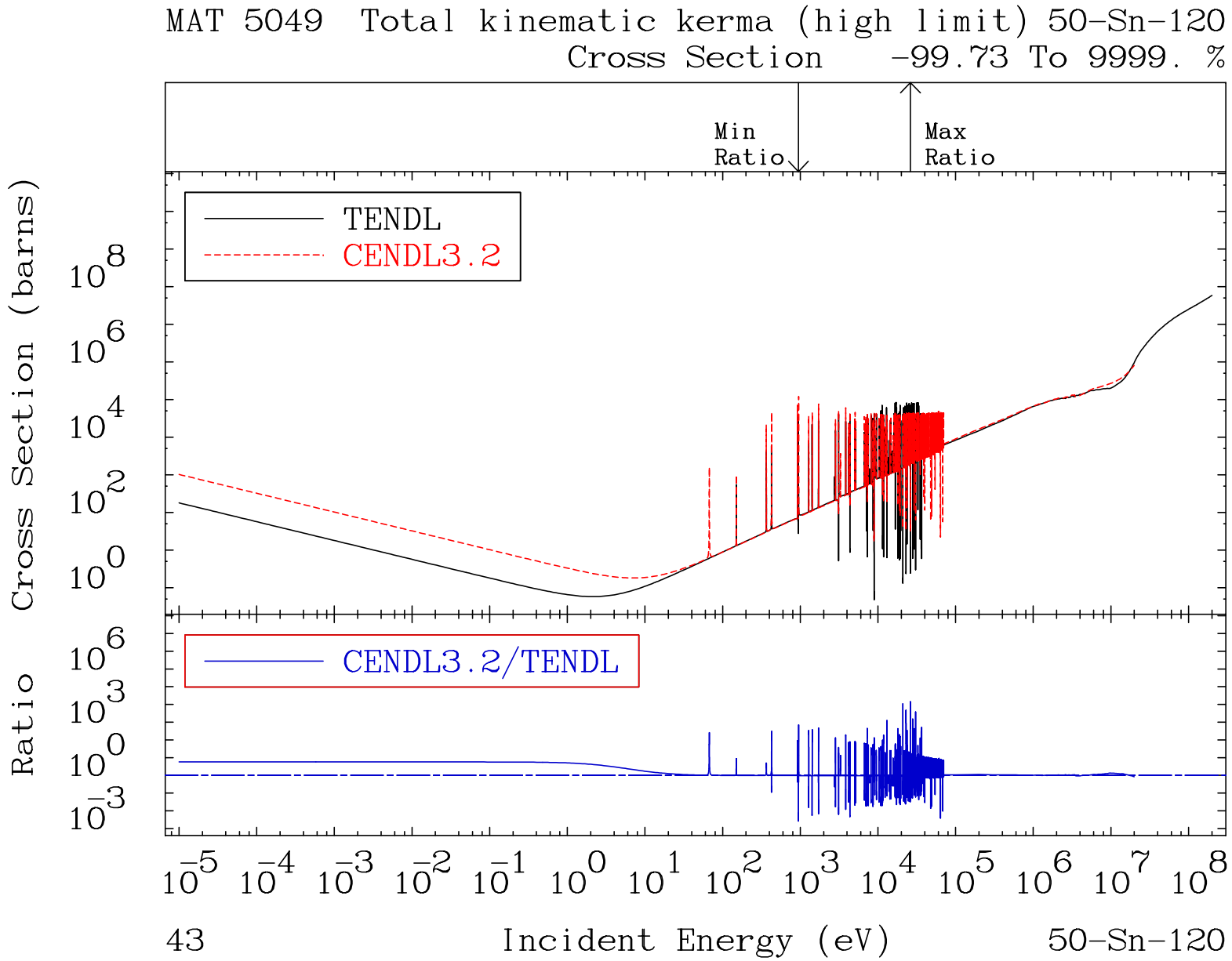

MAT 5049 Kerma non-elastic (all but mt2) 50-Sn-120
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
50-Sn-120

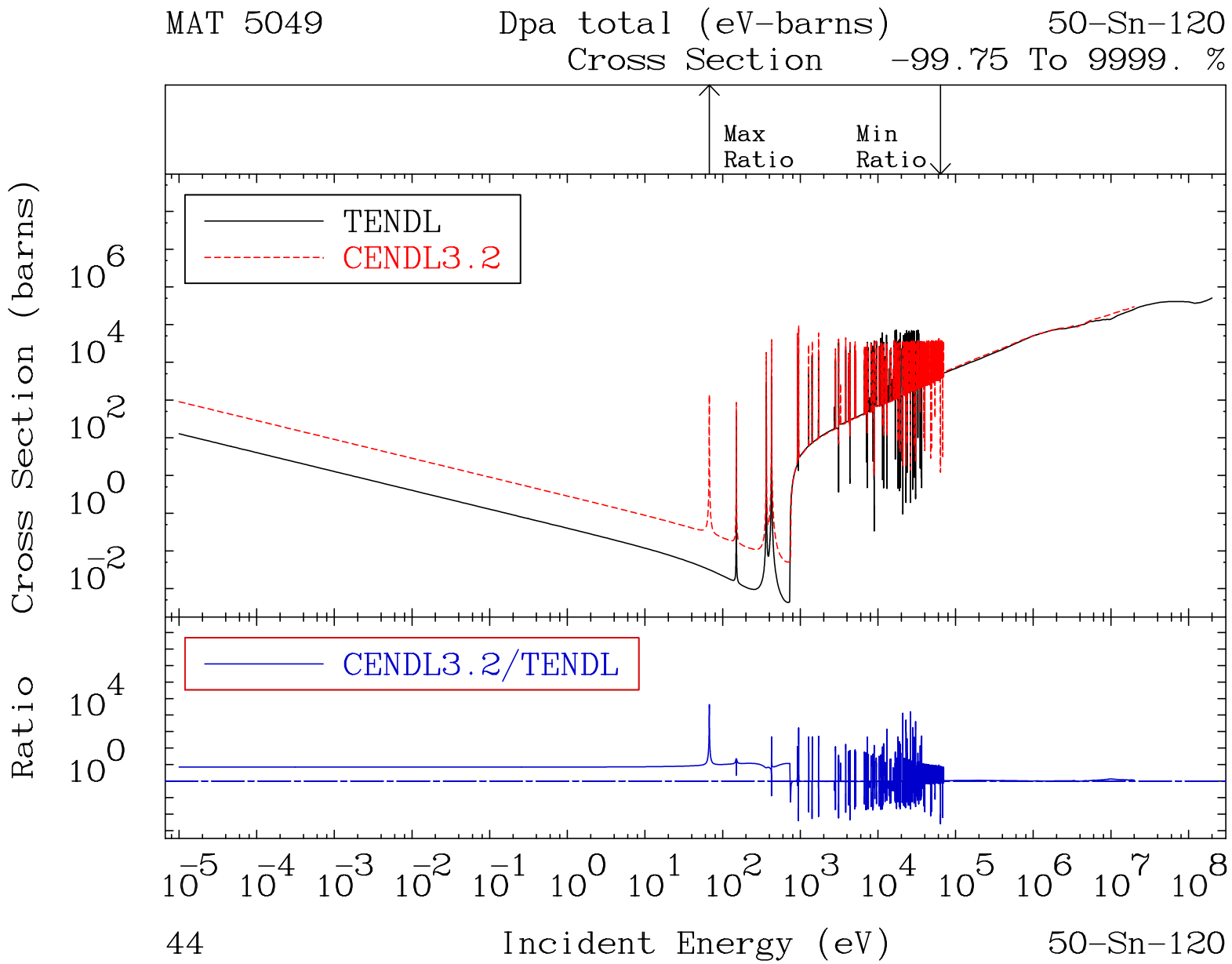

MAT 5049
Kerma inelastic (mt51-91)
50-Sn-120
Cross Section -100.0 To 378.4 %
Min Ratio
Max Ratio
TENDL Threshold 1.1811 MeV
CENDL3.2 Threshold 1.1811 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
50-Sn-120

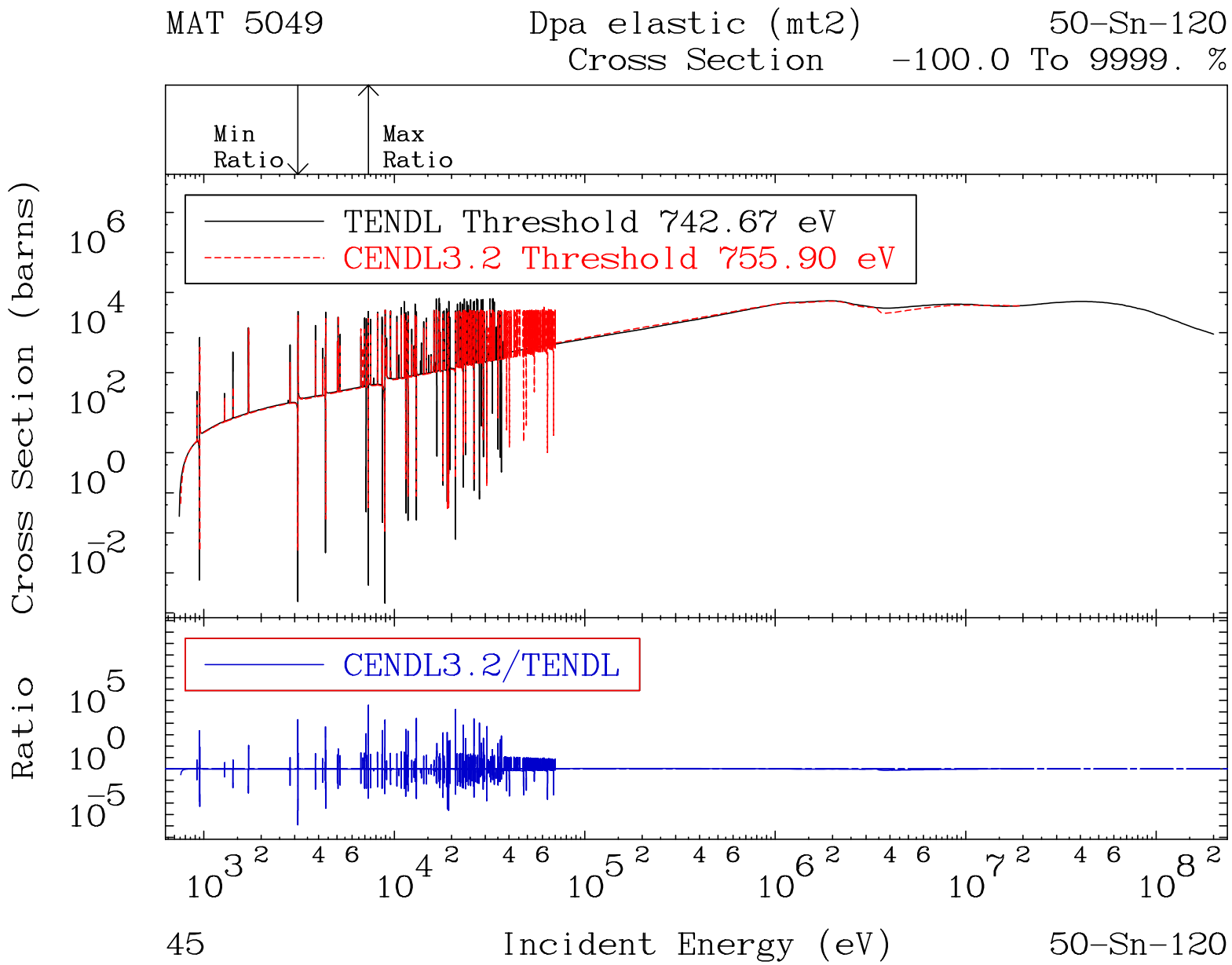

MAT 5049 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-120
Cross Section -100.0 To 378.4 %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
$10^{0}$
$10^{-5}$
$10^{-5}$ $10^{-4}$ $10^{-3}$ $10^{-2}$ $10^{-1}$ $10^{0}$ $10^{1}$ $10^{2}$ $10^{3}$ $10^{4}$ $10^{5}$ $10^{6}$ $10^{7}$ $10^{8}$
40
Incident Energy (eV)
50-Sn-120

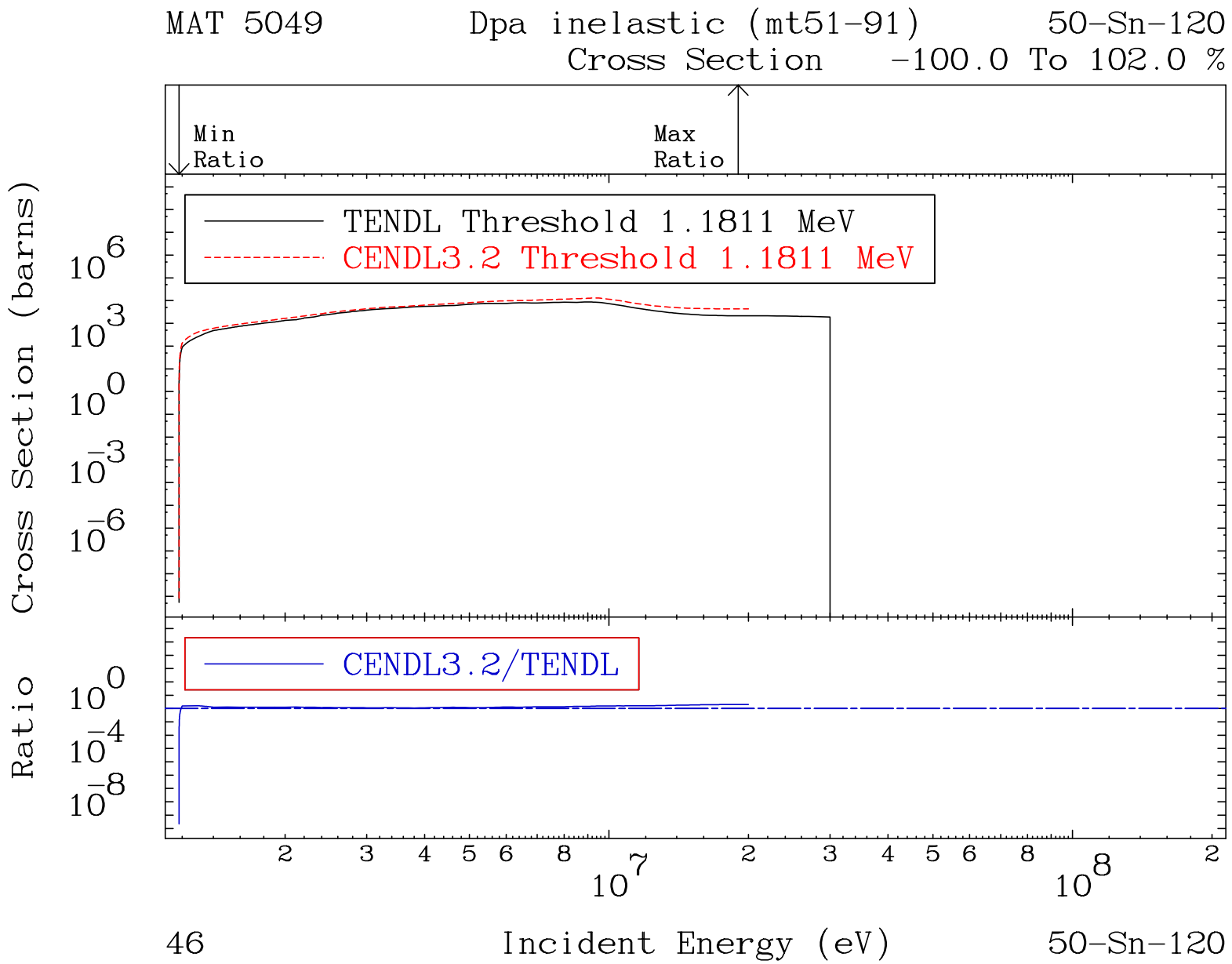

MAT 5049
Kerma capture (mt102)
50-Sn-120
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
41
50-Sn-120

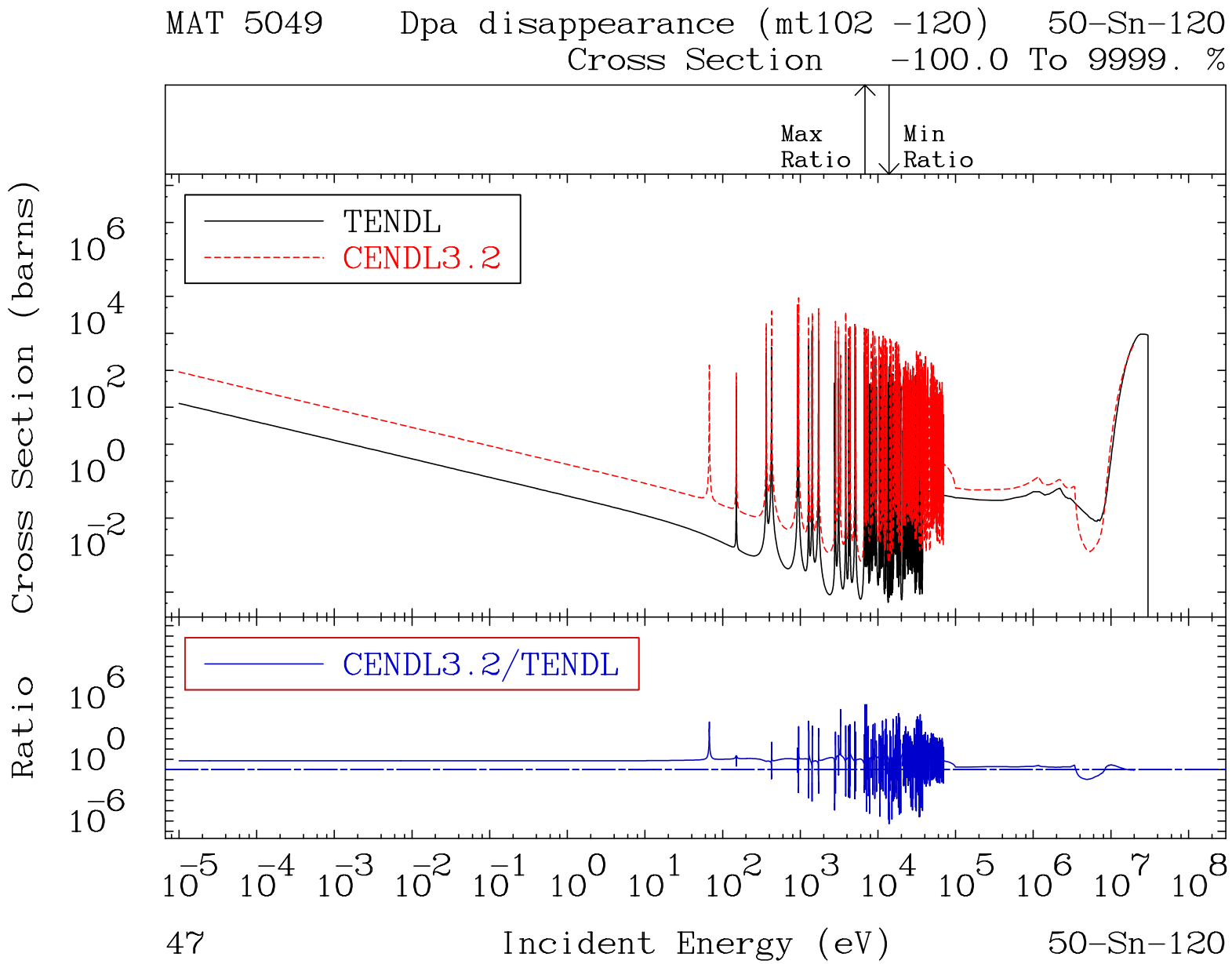

MAT 5049
Total photon (eV-barns)
50-Sn-120
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
Ratio
CENDL3.2/TENDL
Incident Energy (eV)
42
50-Sn-120

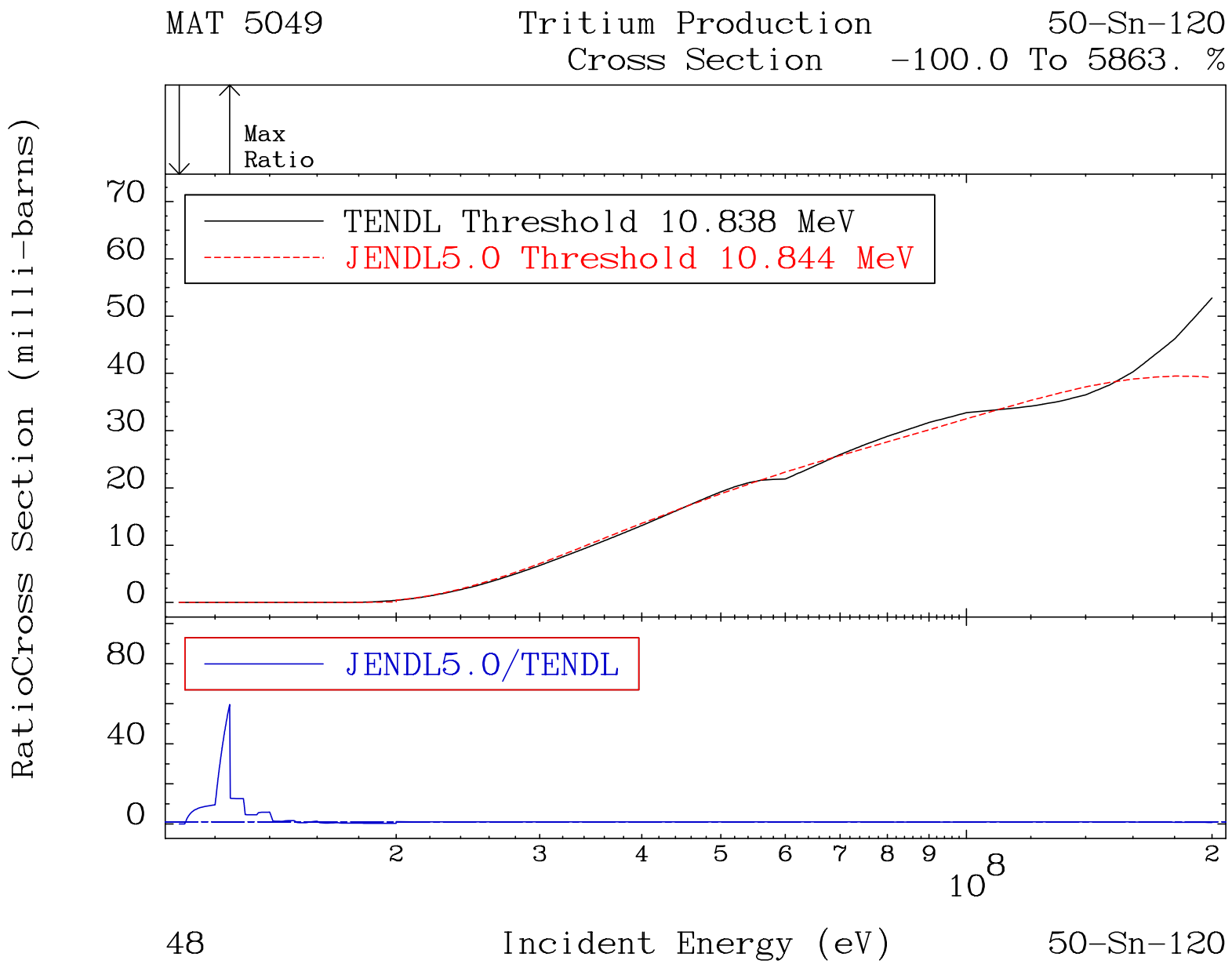

MAT 5049 Total kinematic kerma (high limit) 50-Sn-120
Cross Section -99.73 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
43
50-Sn-120

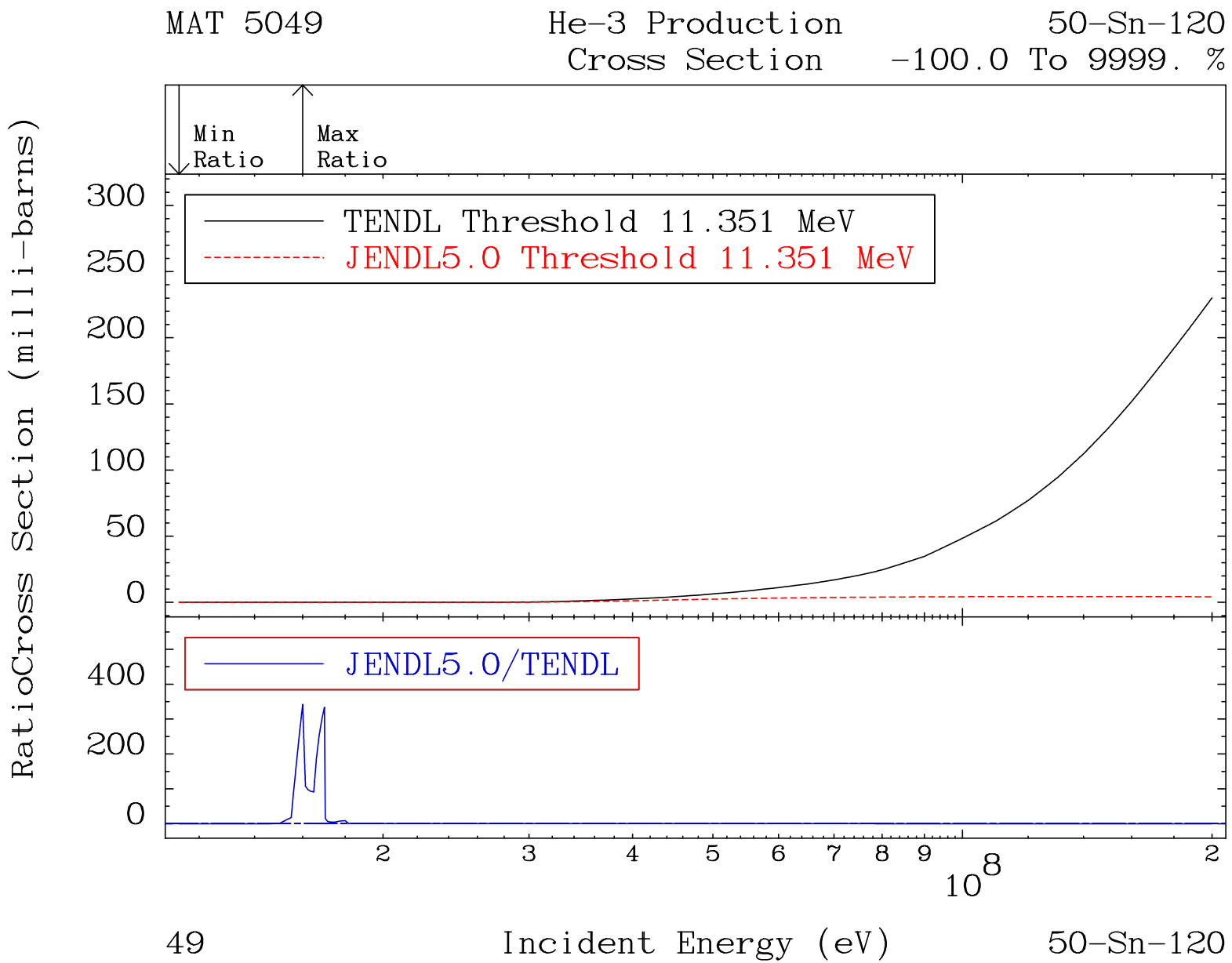

MAT 5049
Dpa total (eV-barns)
50-Sn-120
Cross Section -99.75 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
44
50-Sn-120

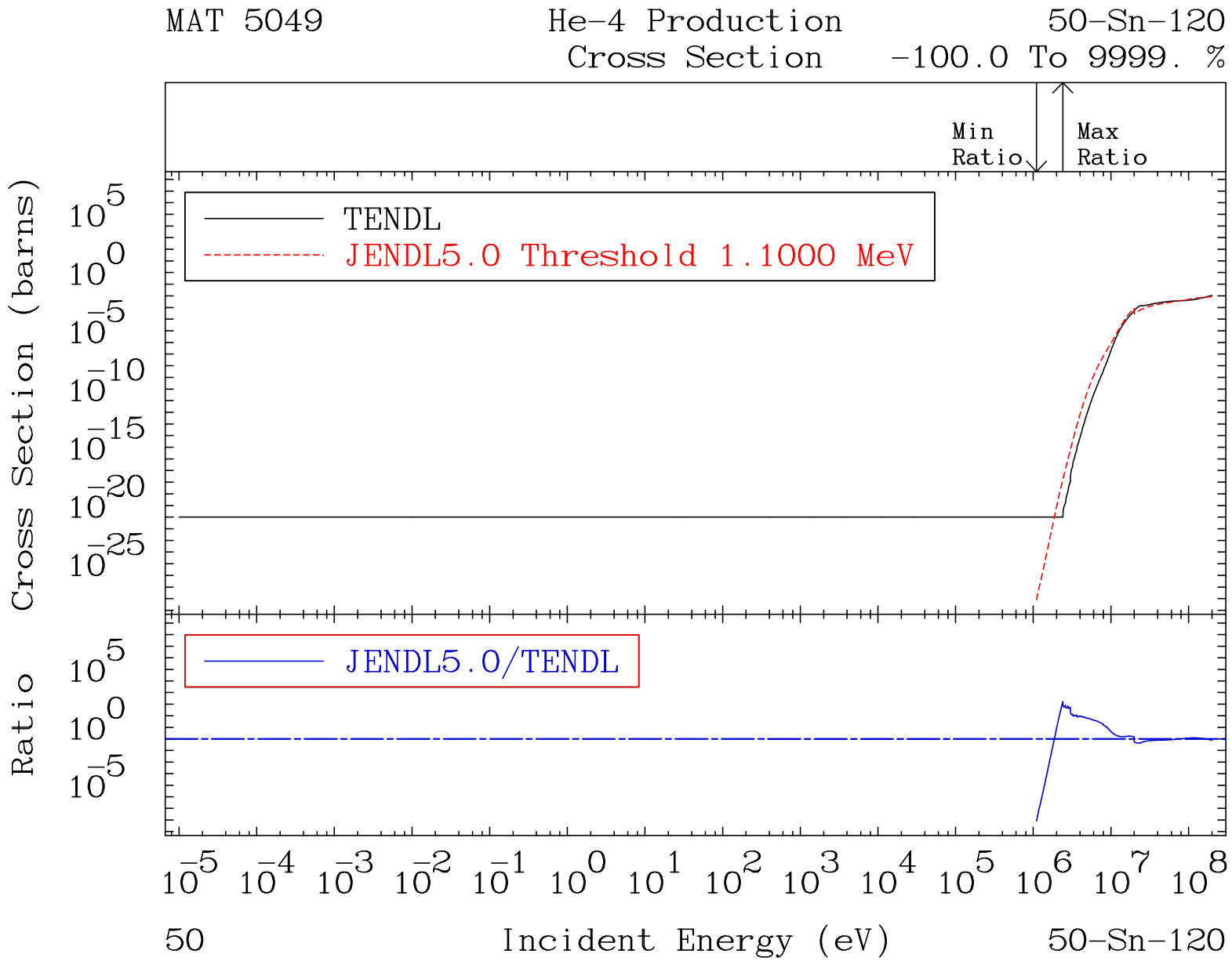

MAT 5049
Dpa elastic (mt2)
Cross Section
50-Sn-120
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 742.67 eV
CENDL3.2 Threshold 755.90 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
50-Sn-120

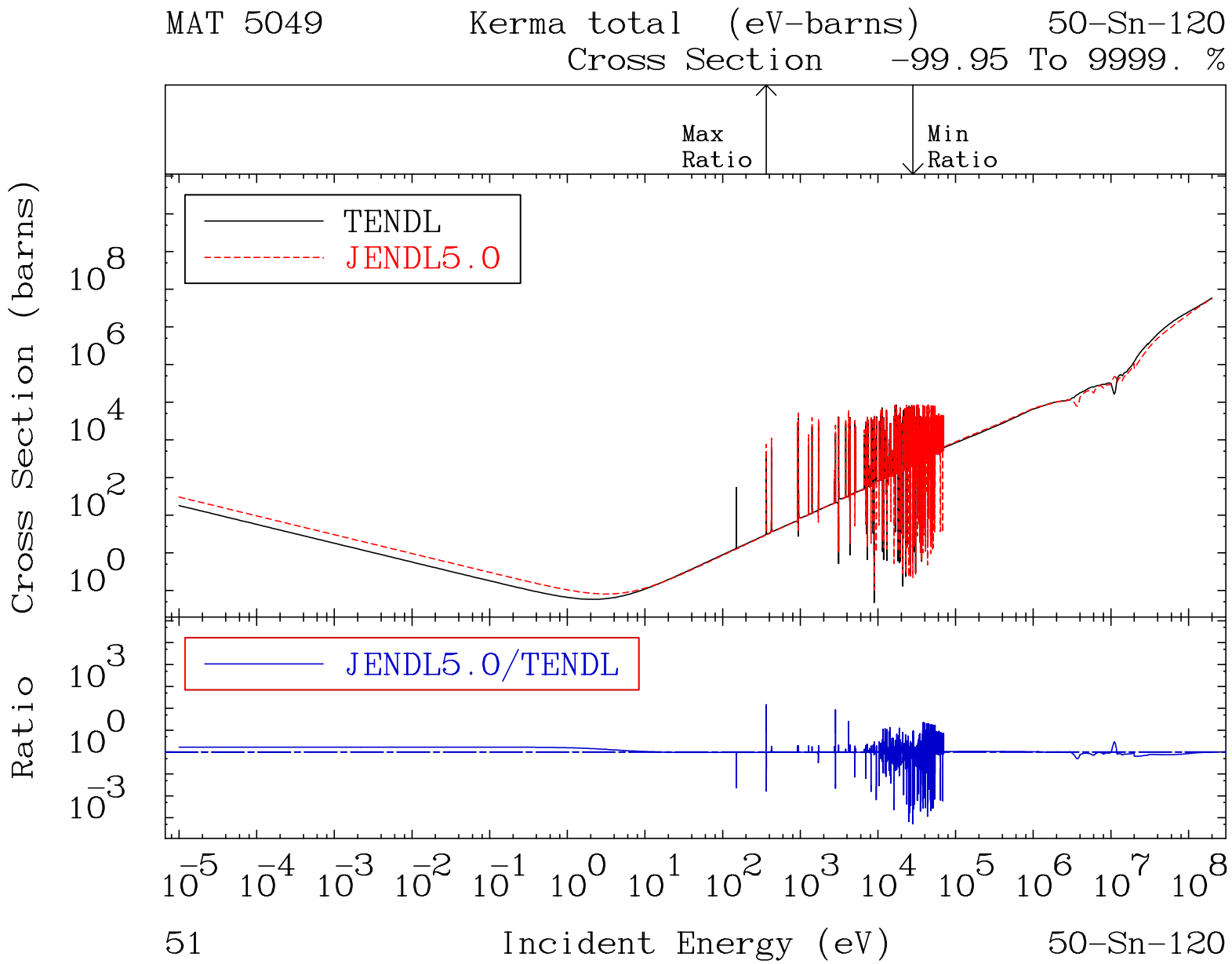

MAT 5049
Dpa inelastic (mt51-91)
50-Sn-120
Cross Section -100.0 To 102.0 %
Min Ratio
Max Ratio
TENDL Threshold 1.1811 MeV
CENDL3.2 Threshold 1.1811 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
50-Sn-120

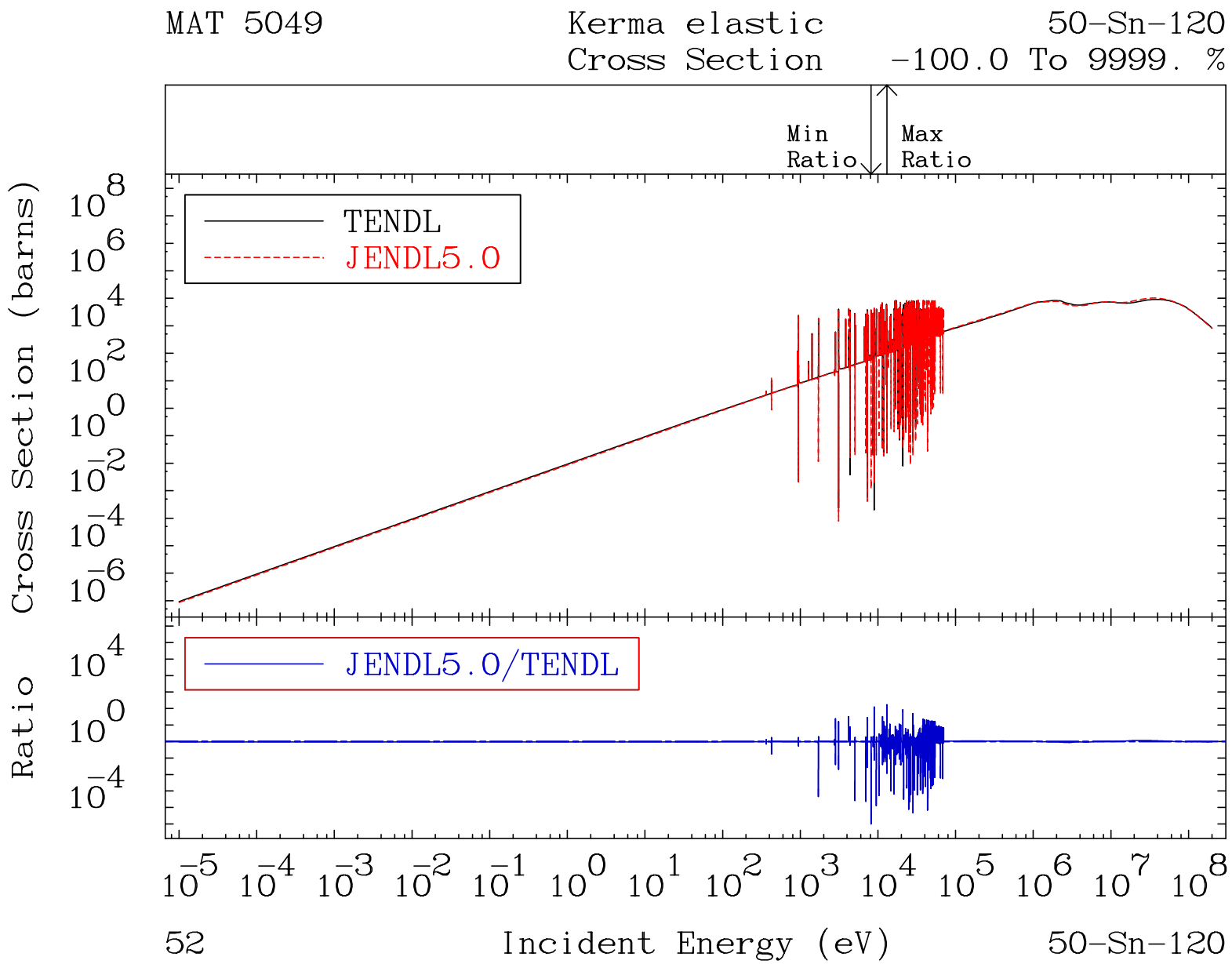

MAT 5049 Dpa disappearance (mt102 -120) 50-Sn-120
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
50-Sn-120

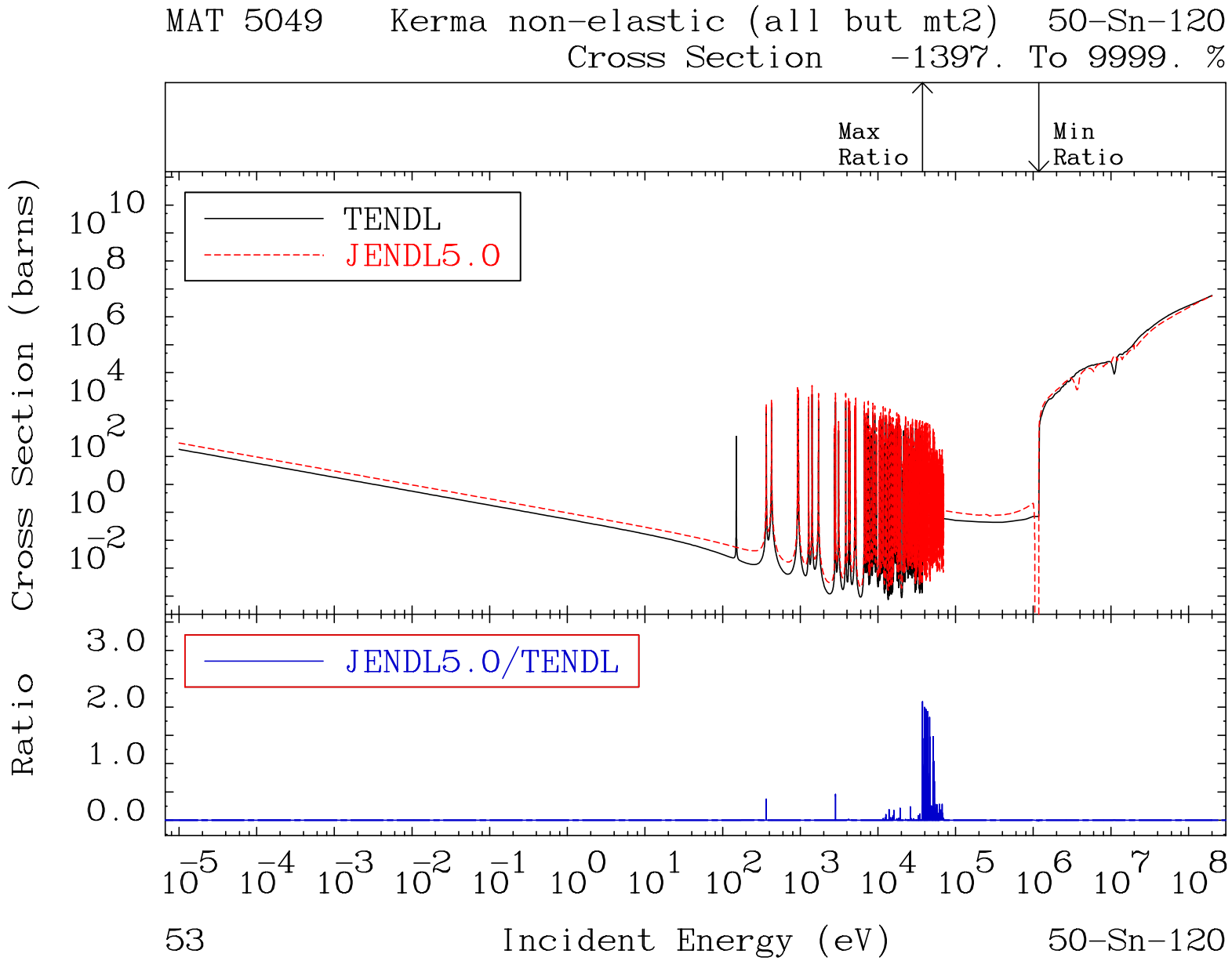

MAT 5049
Tritium Production
50-Sn-120
Cross Section
-100.0 To 5863. %
Max
Ratio
TENDL Threshold 10.838 MeV
JENDL5.0 Threshold 10.844 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
80
40
0
2
3
4
5
6
7
8
9
2
10^8
48
Incident Energy (eV)
50-Sn-120

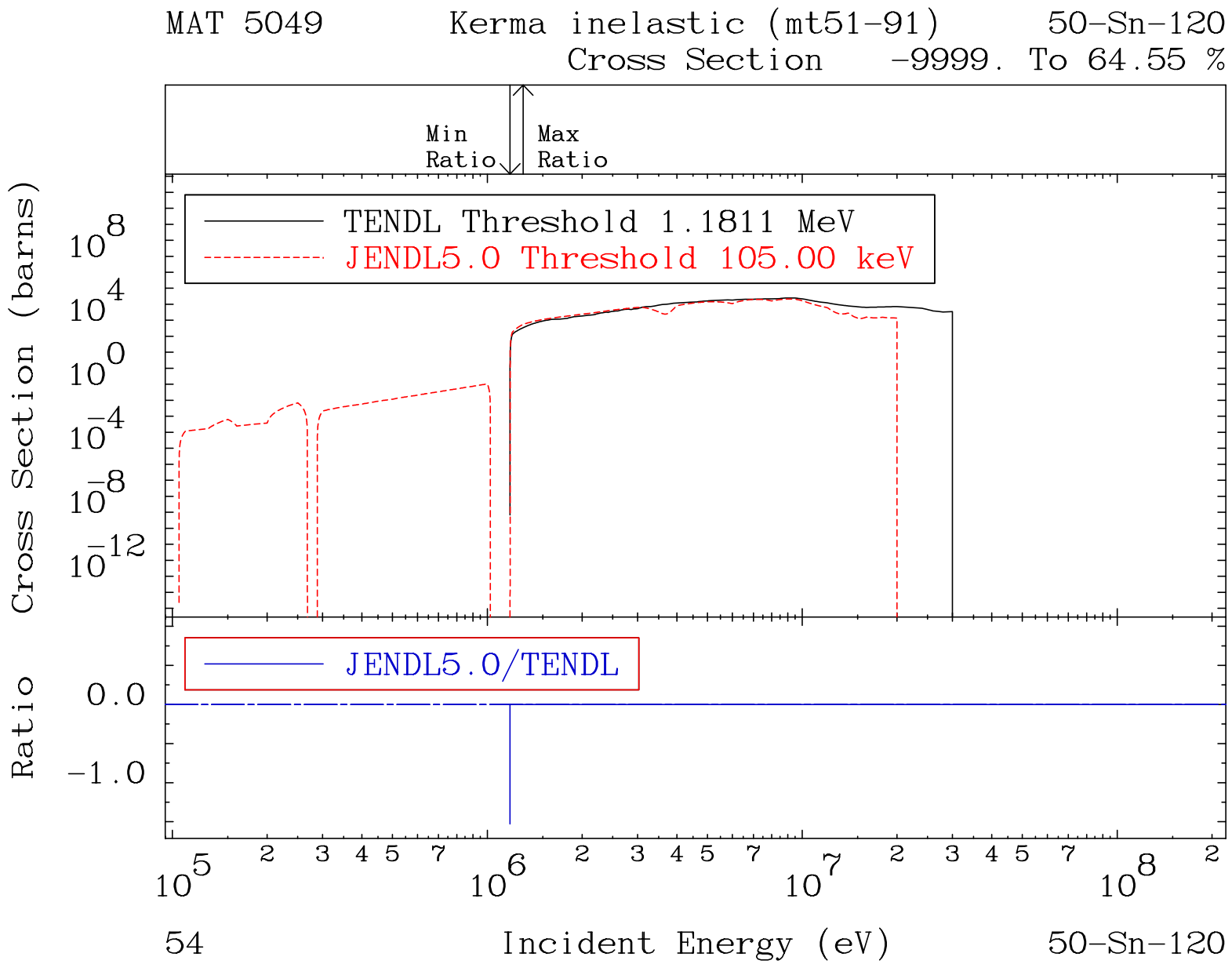

MAT 5049
He-3 Production
Cross Section
50-Sn-120
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.351 MeV
JENDL5.0 Threshold 11.351 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
400
200
0
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
50-Sn-120

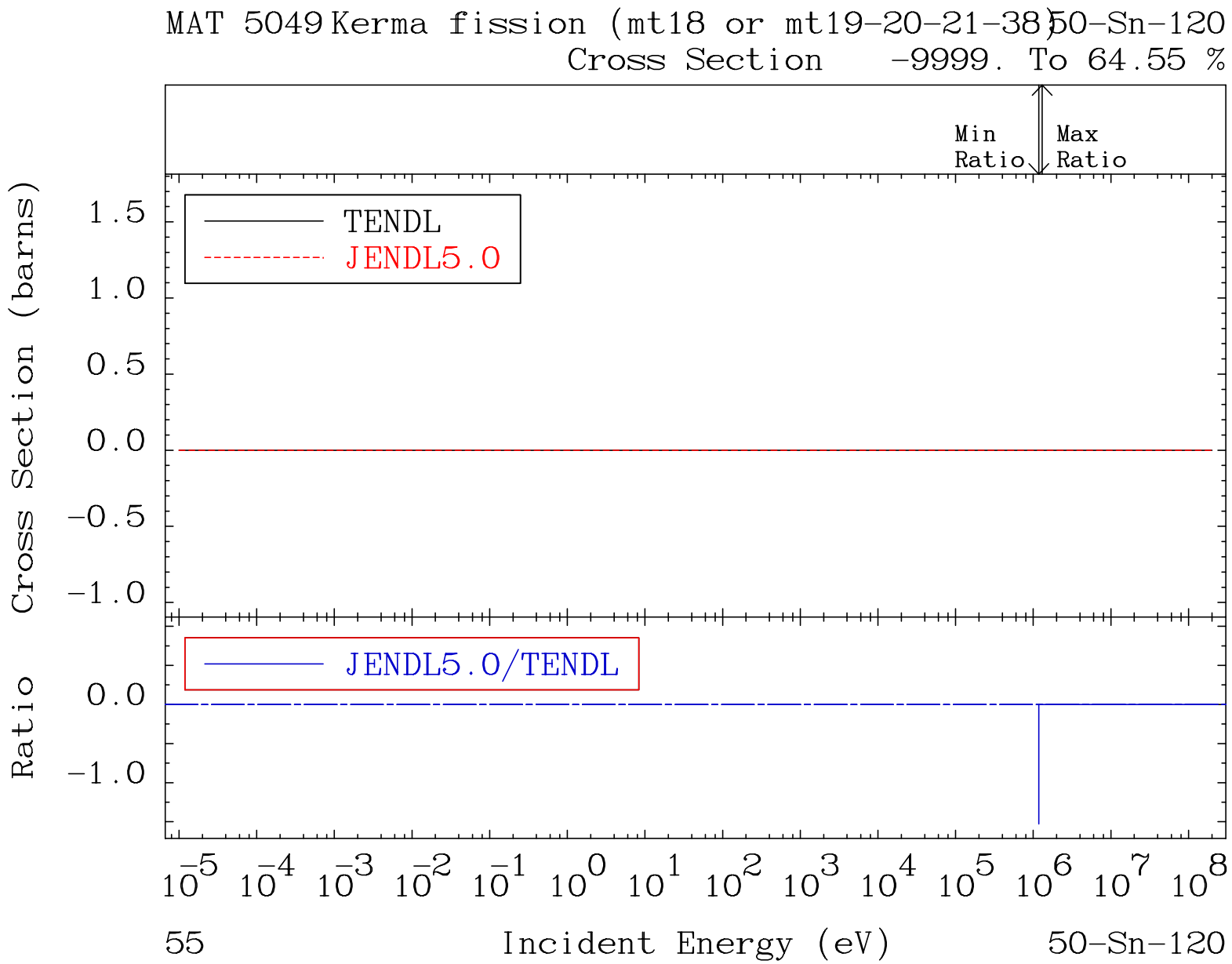

MAT 5049
He-4 Production
Cross Section
50-Sn-120
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 1.1000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
50
50-Sn-120

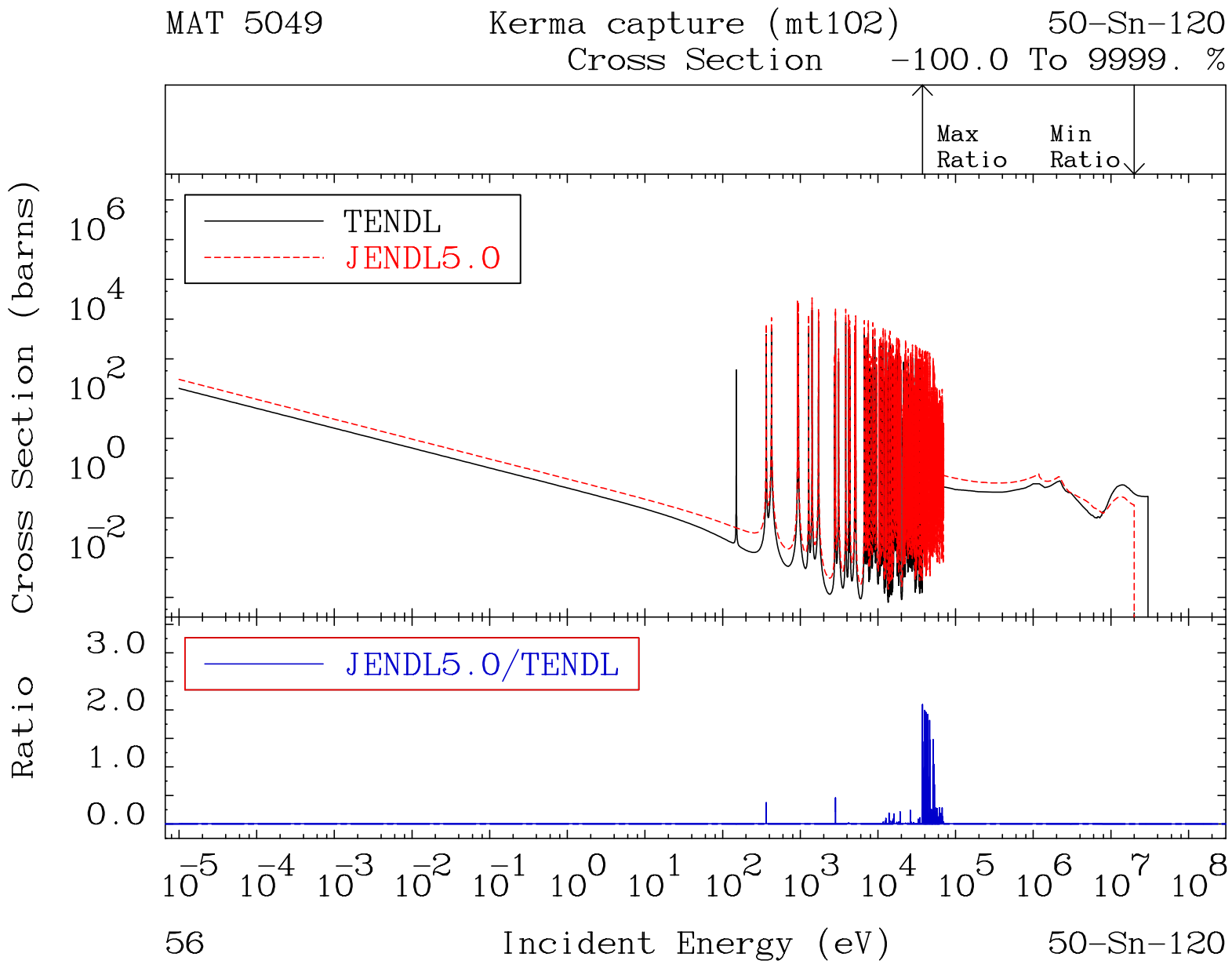

MAT 5049
Kerma total (eV-barns)
50-Sn-120
Cross Section -99.95 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
50-Sn-120

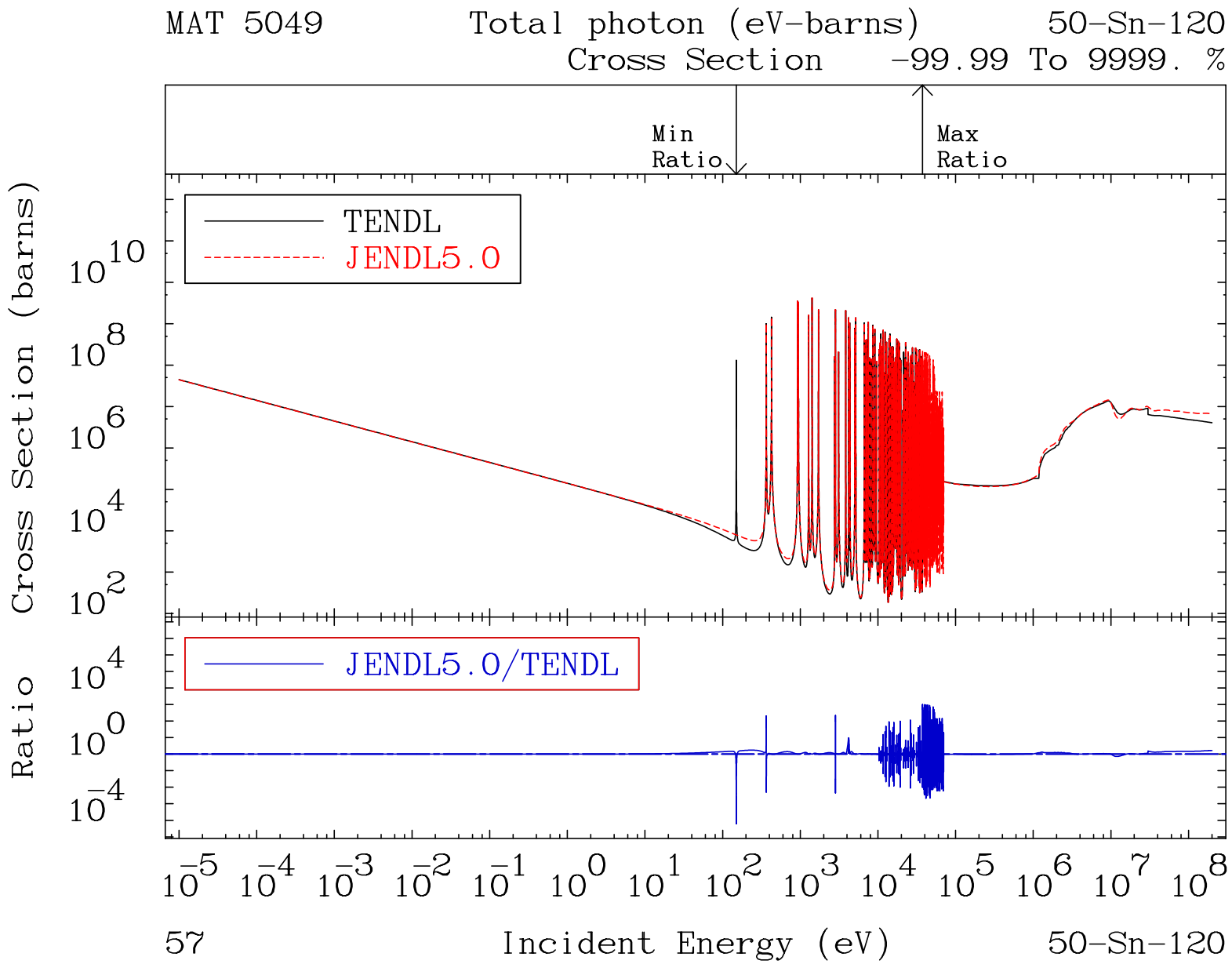

MAT 5049
Kerma elastic
Cross Section
50-Sn-120
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
50-Sn-120

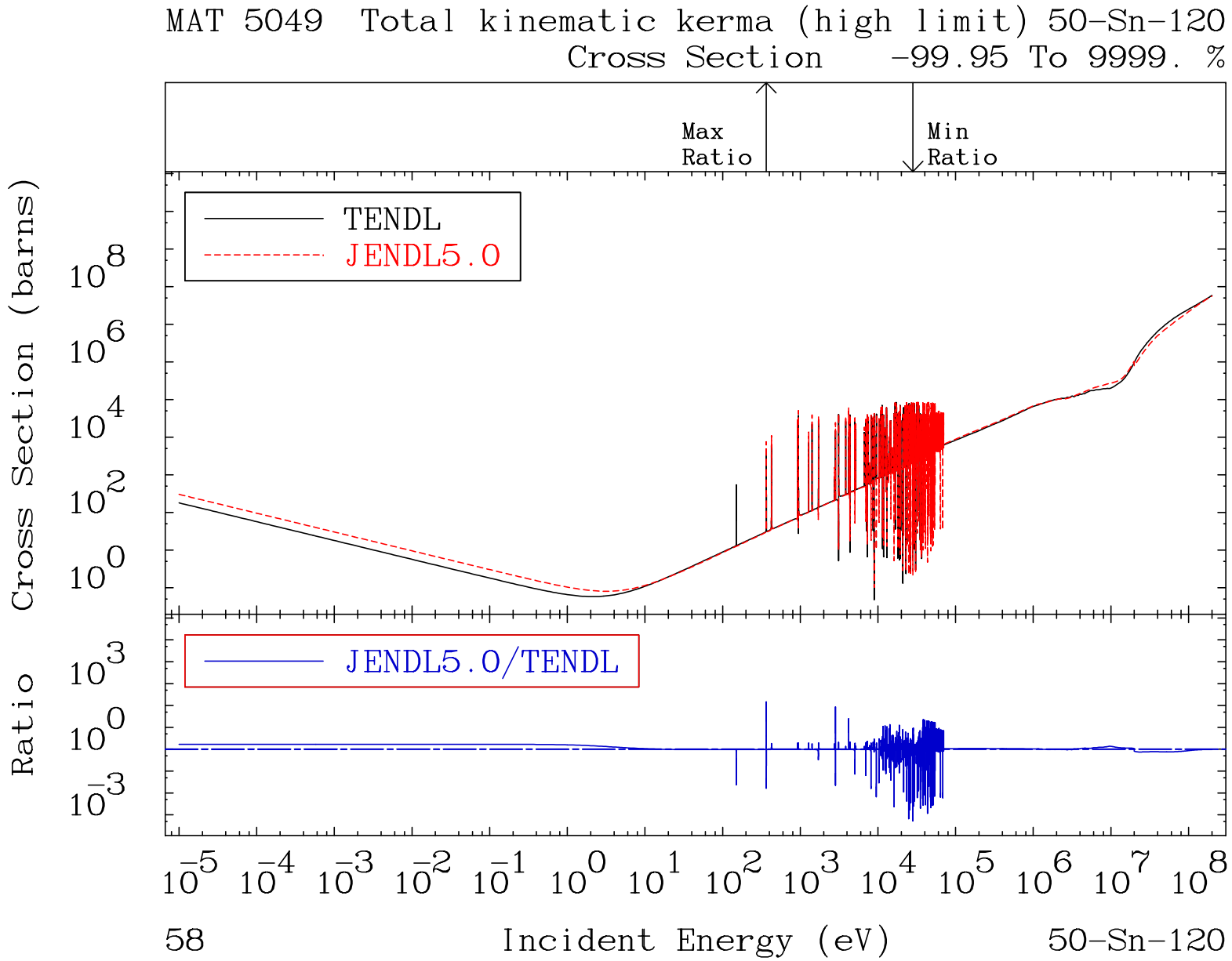

MAT 5049 Kerma non-elastic (all but mt2) 50-Sn-120
Cross Section -1397. To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
50-Sn-120

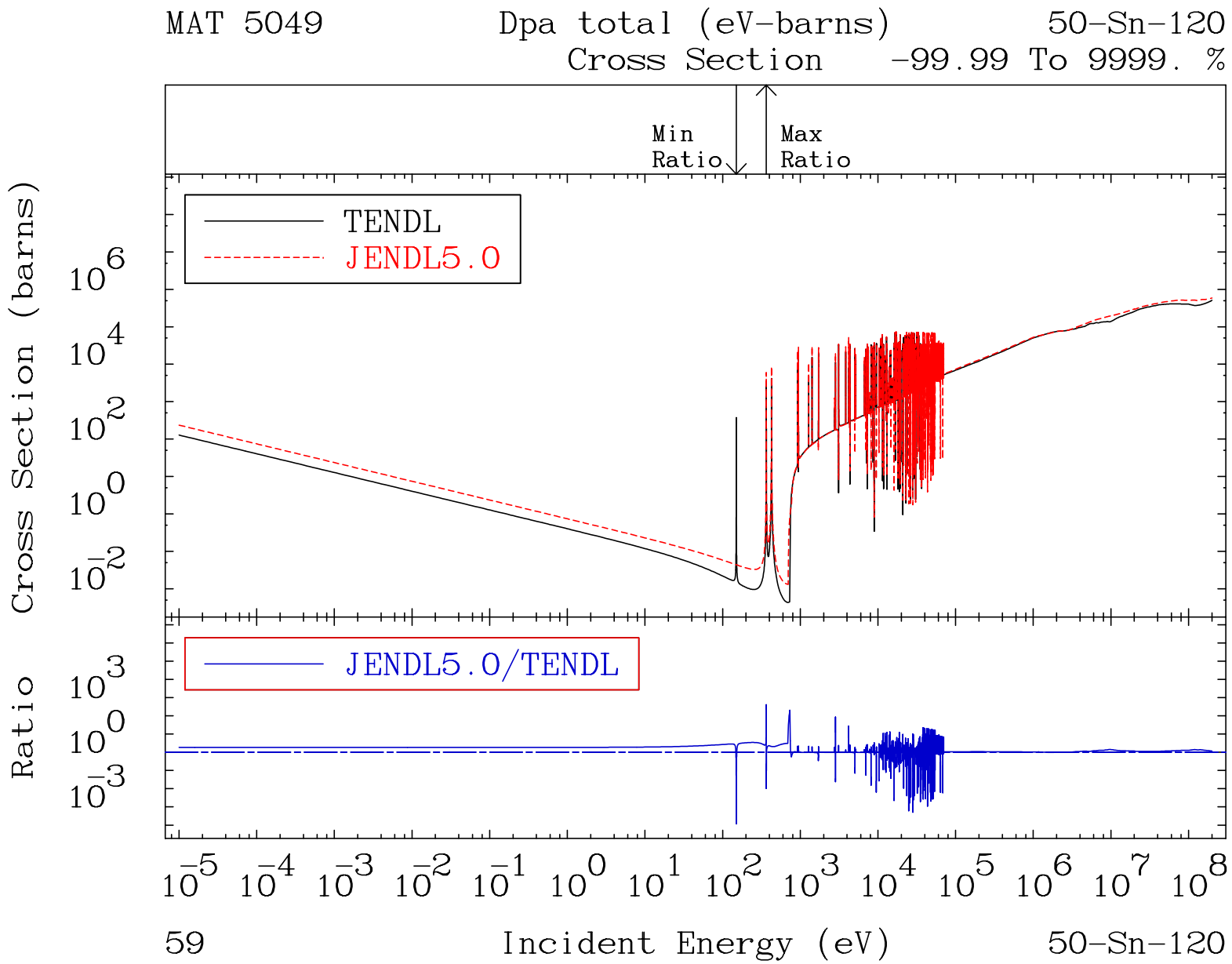

MAT 5049
Kerma inelastic (mt51-91)
50-Sn-120
Cross Section -9999. To 64.55 %
Min Ratio
Max Ratio
TENDL Threshold 1.1811 MeV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
54
50-Sn-120

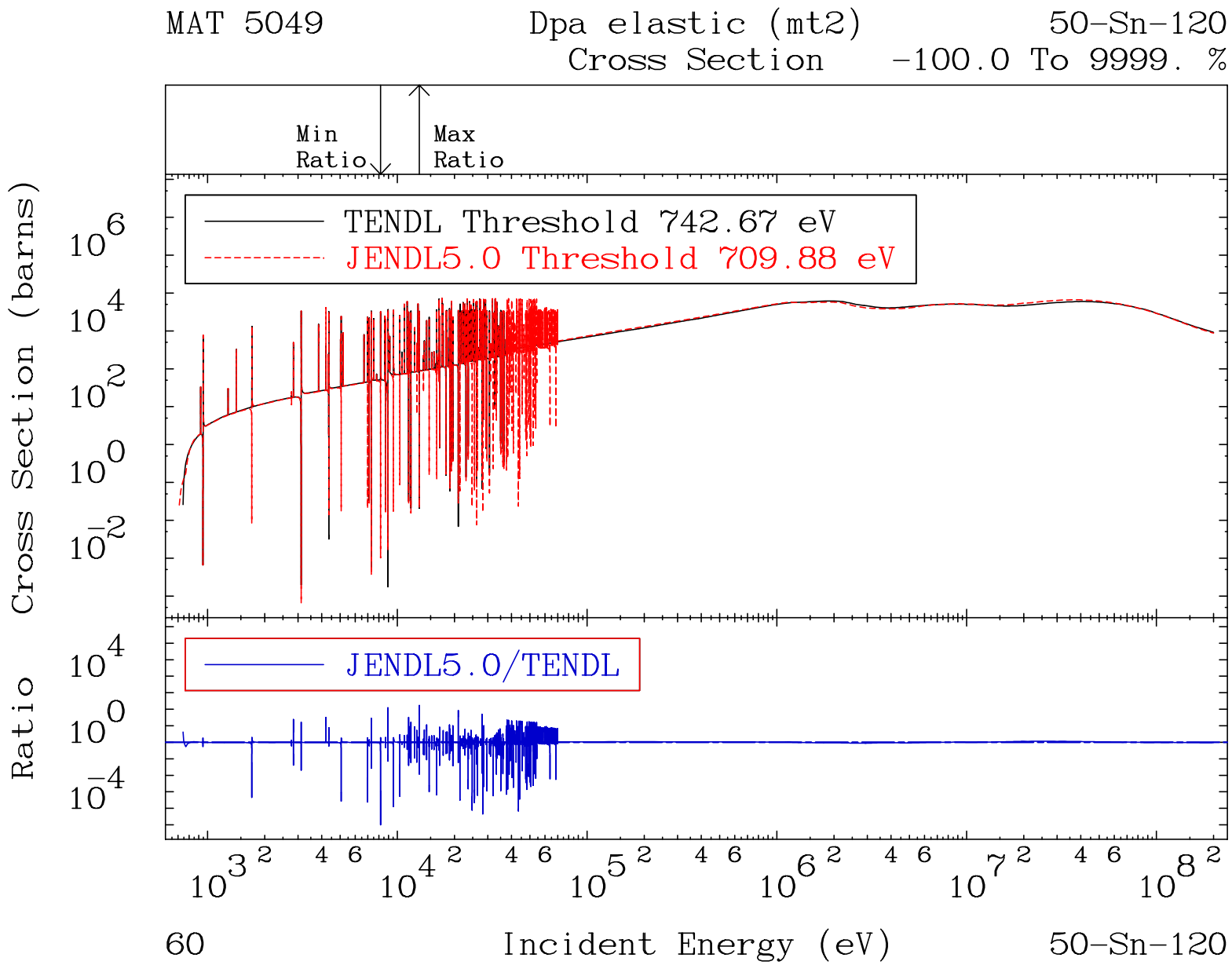

MAT 5049 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-120
Cross Section -9999. To 64.55 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
0.0
-1.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
55
Incident Energy (eV)
50-Sn-120

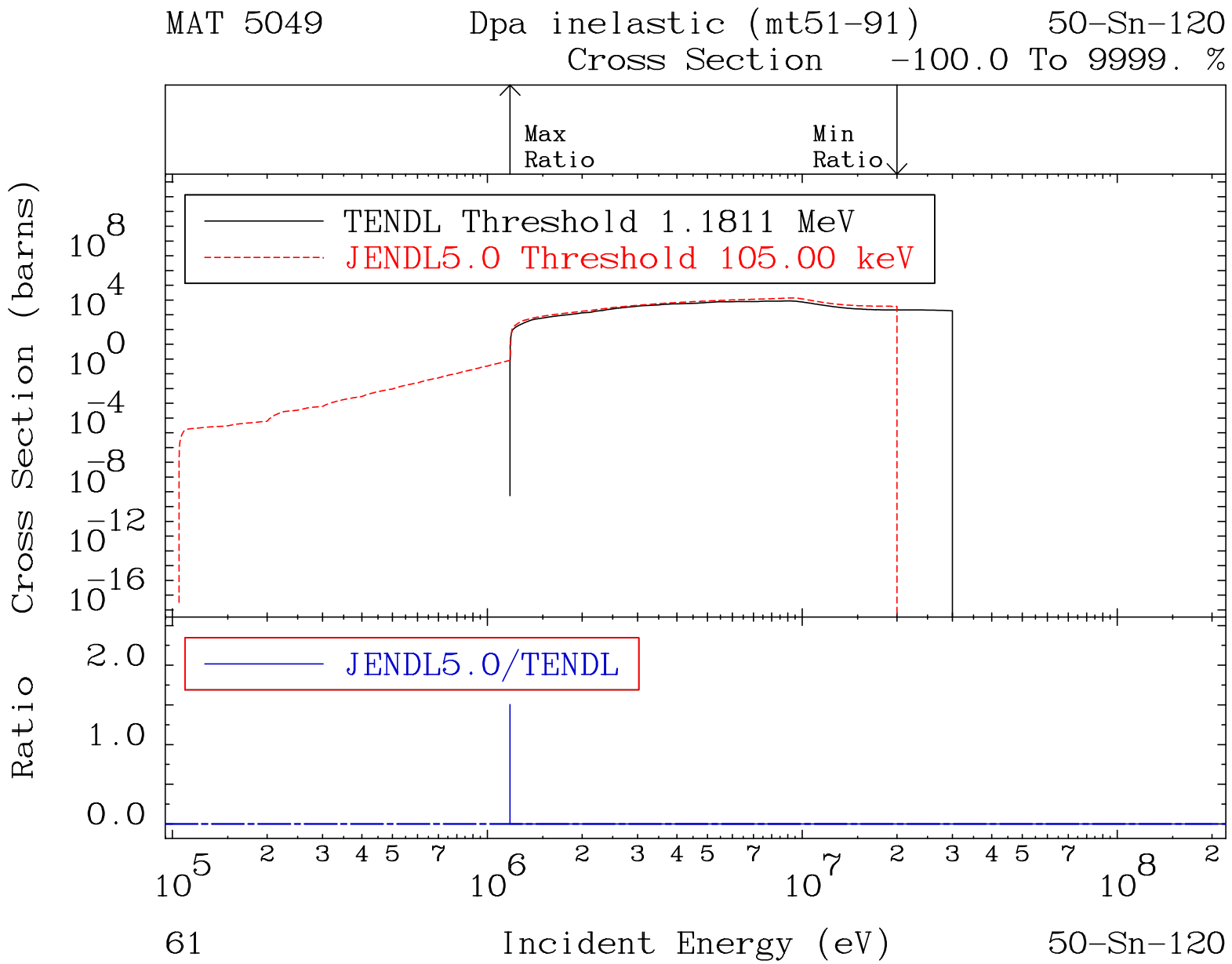

MAT 5049
Kerma capture (mt102)
50-Sn-120
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
50-Sn-120

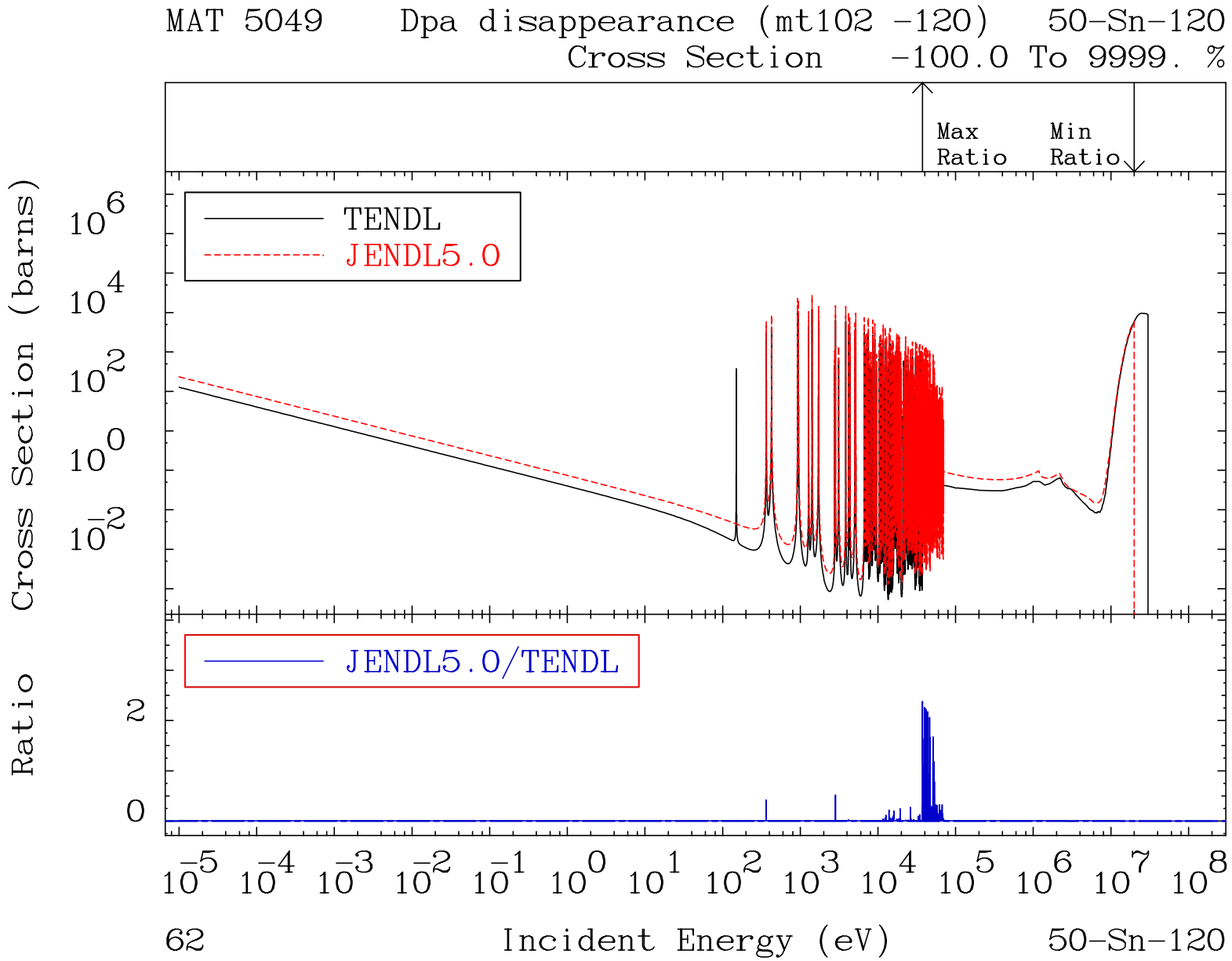

MAT 5049
Total photon (eV-barns)
50-Sn-120
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
57
50-Sn-120

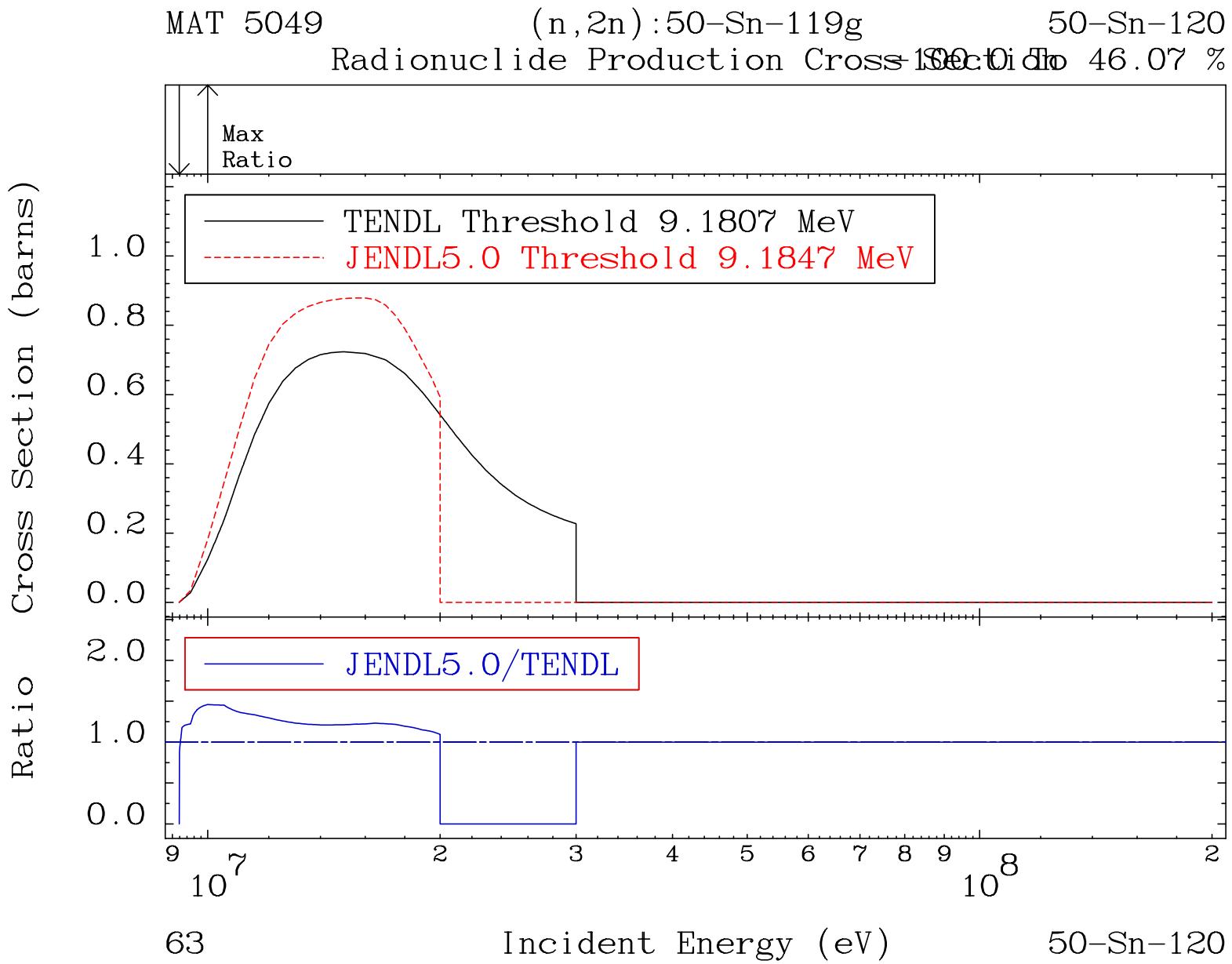

MAT 5049 Total kinematic kerma (high limit) 50-Sn-120
Cross Section -99.95 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
50-Sn-120

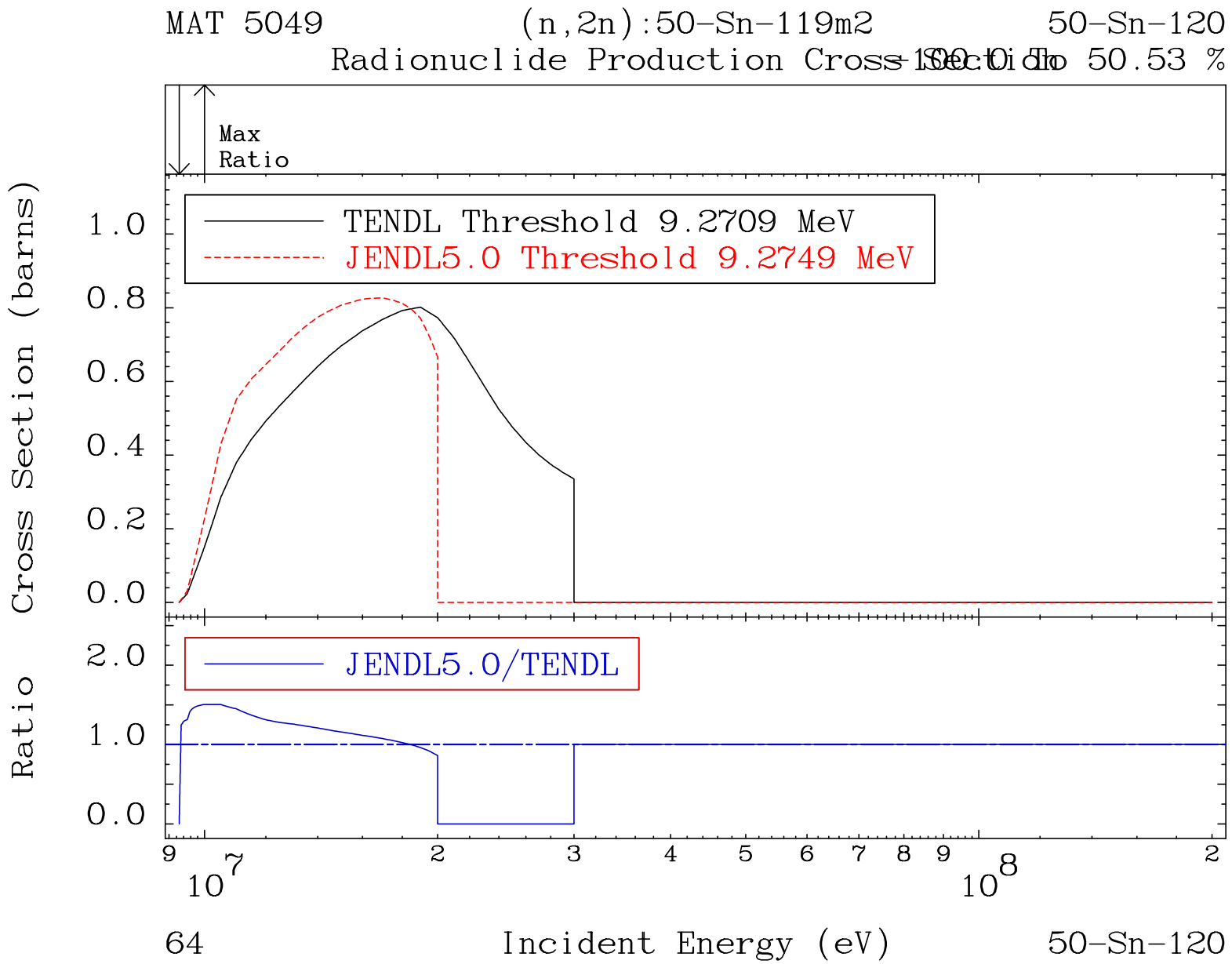

MAT 5049
Dpa total (eV-barns)
50-Sn-120
Cross Section
-99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
59
50-Sn-120

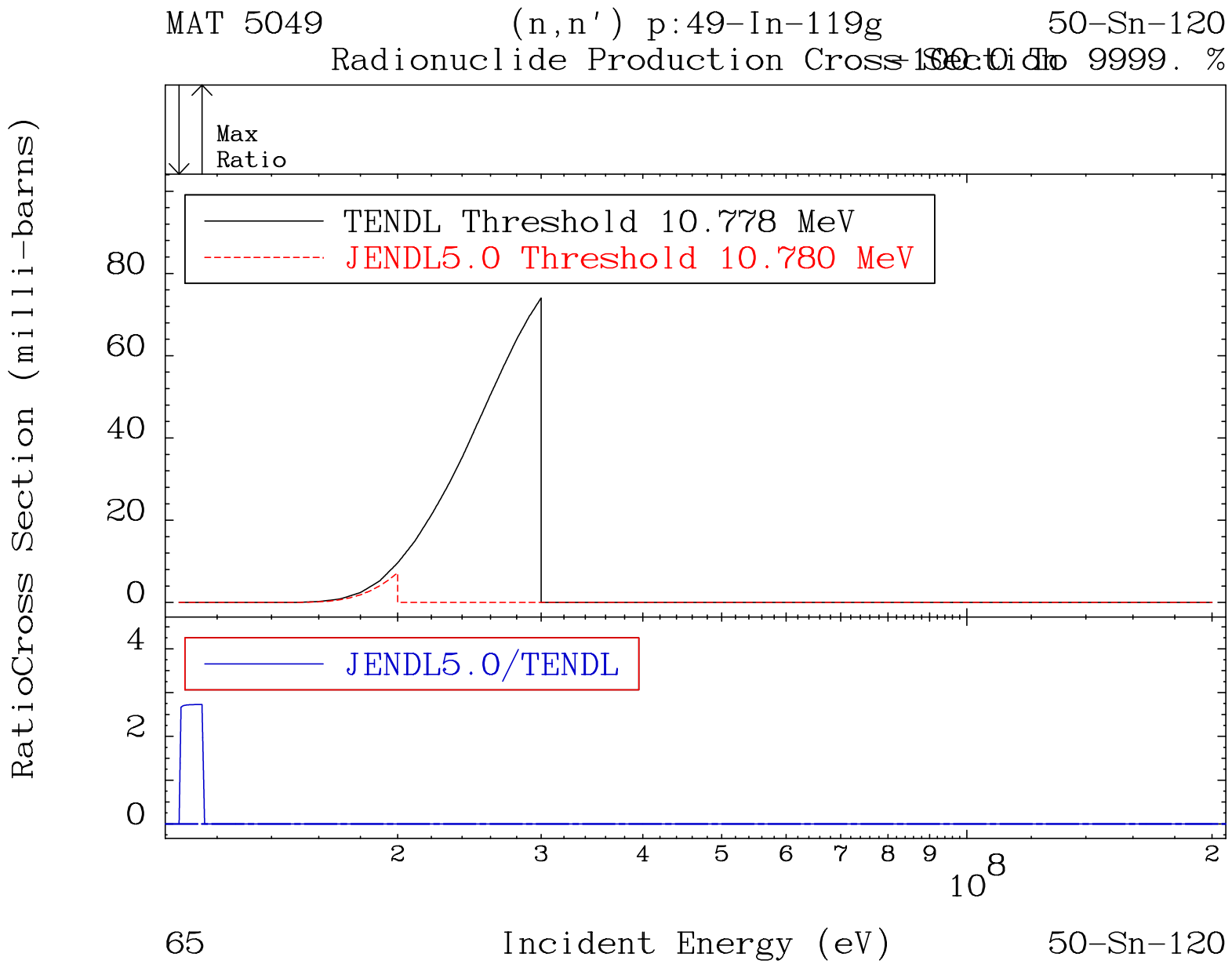

MAT 5049
Dpa elastic (mt2)
Cross Section
50-Sn-120
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 742.67 eV
JENDL5.0 Threshold 709.88 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
50-Sn-120

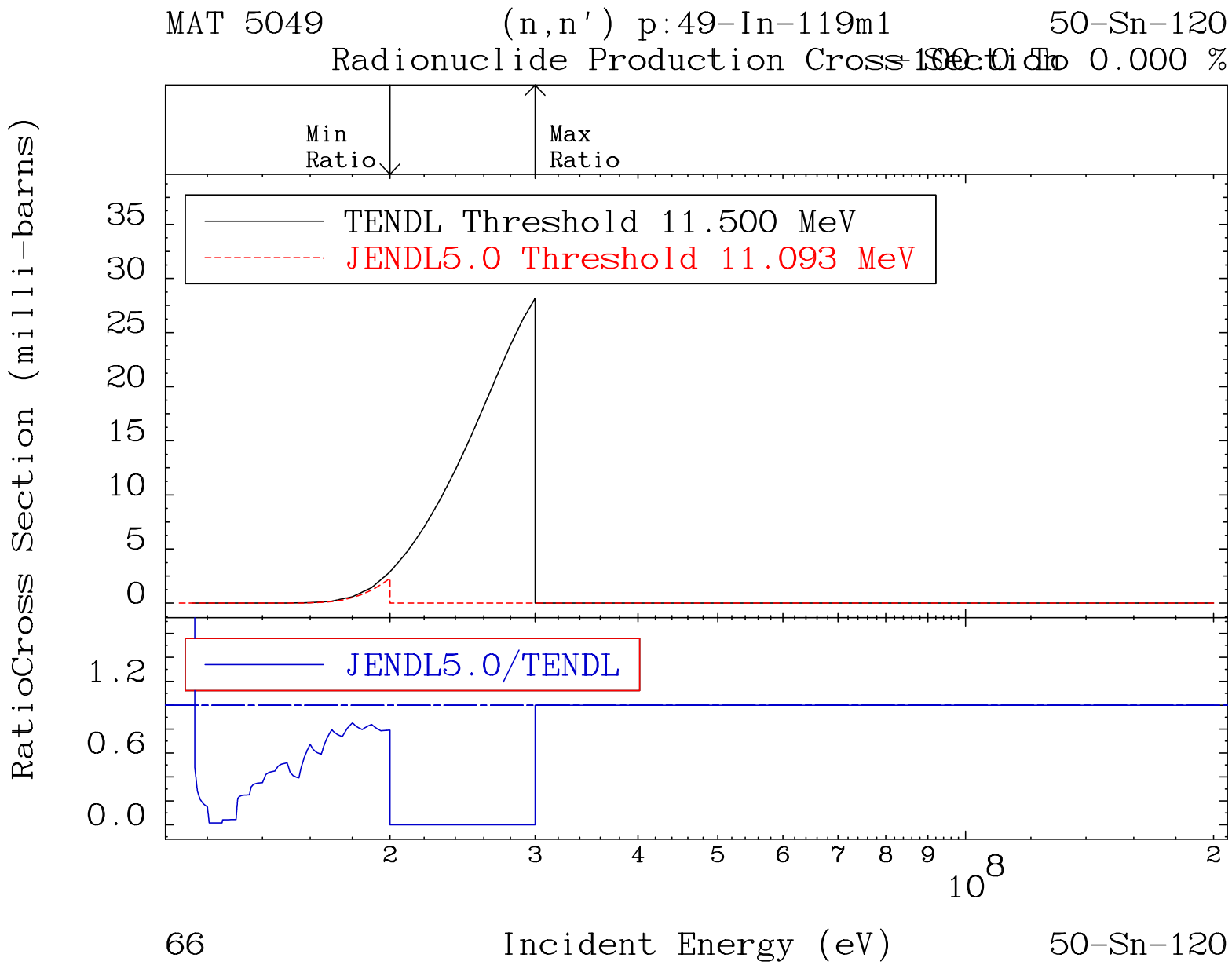

MAT 5049
Dpa inelastic (mt51-91)
50-Sn-120
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.1811 MeV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
61
50-Sn-120

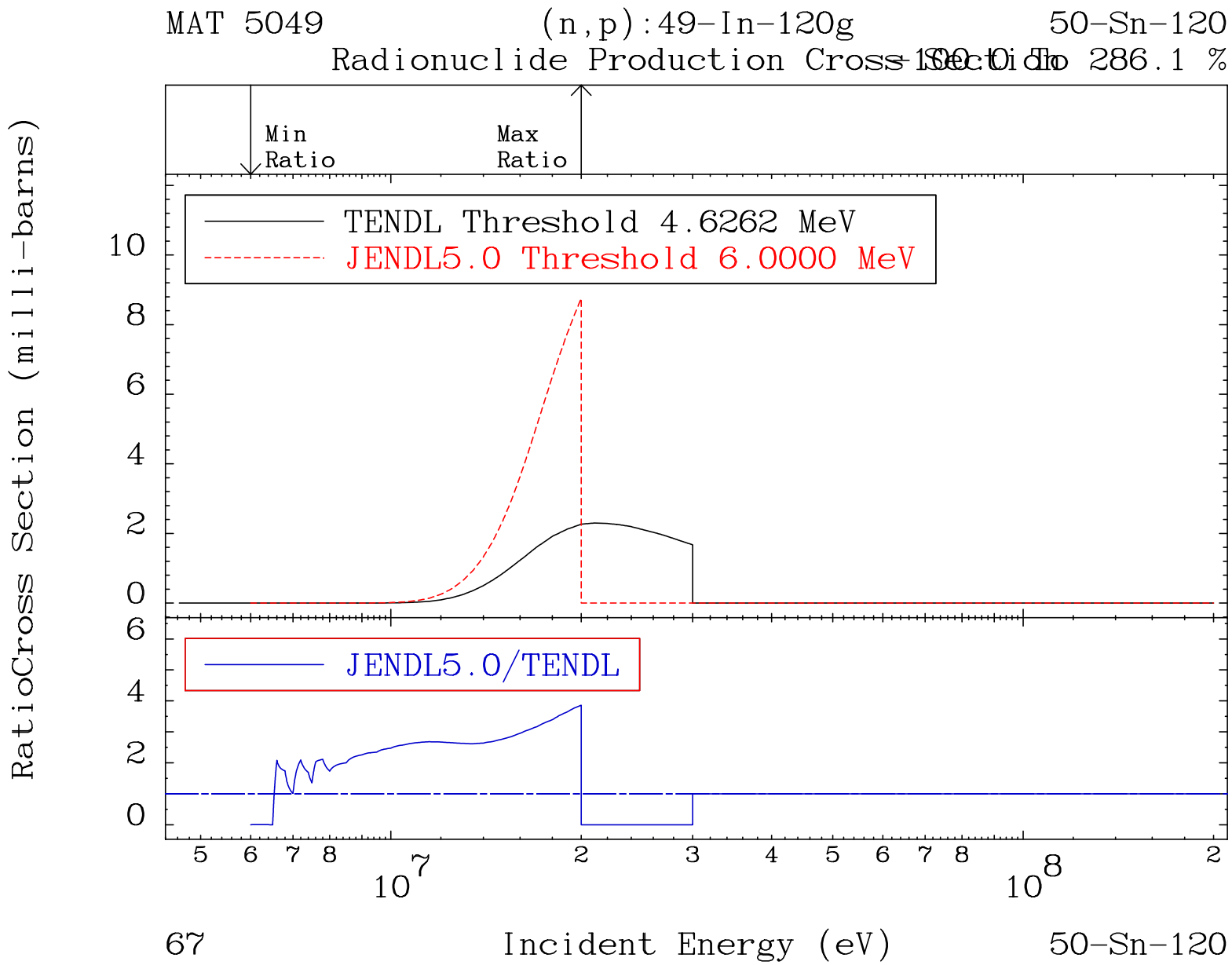

MAT 5049 Dpa disappearance (mt102 -120) 50-Sn-120
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
62
50-Sn-120

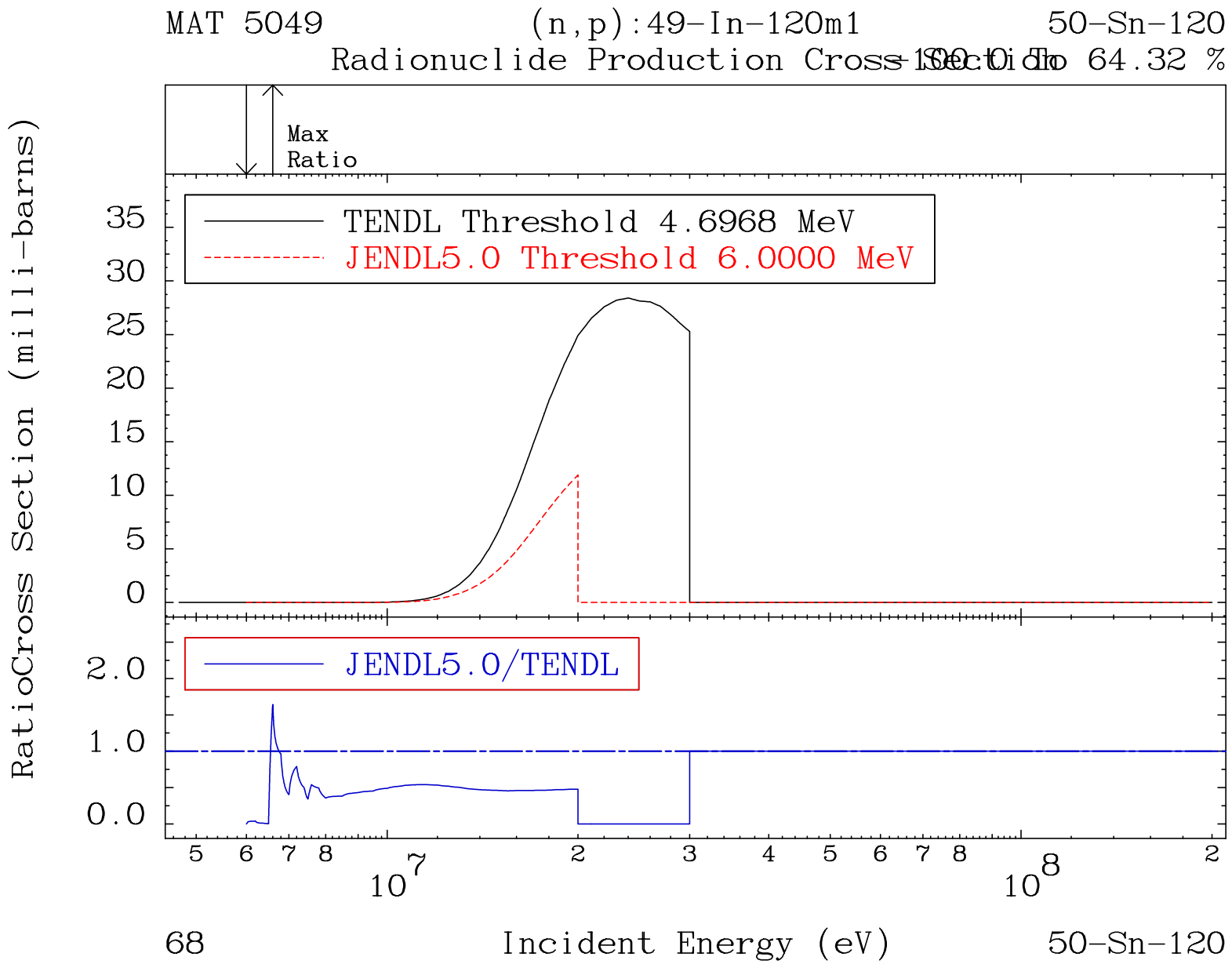

MAT 5049
(n,2n):50-Sn-119g
50-Sn-120
Radionuclide Production Cross Section To 46.07 %
Max
Ratio
TENDL Threshold 9.1807 MeV
JENDL5.0 Threshold 9.1847 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
50-Sn-120

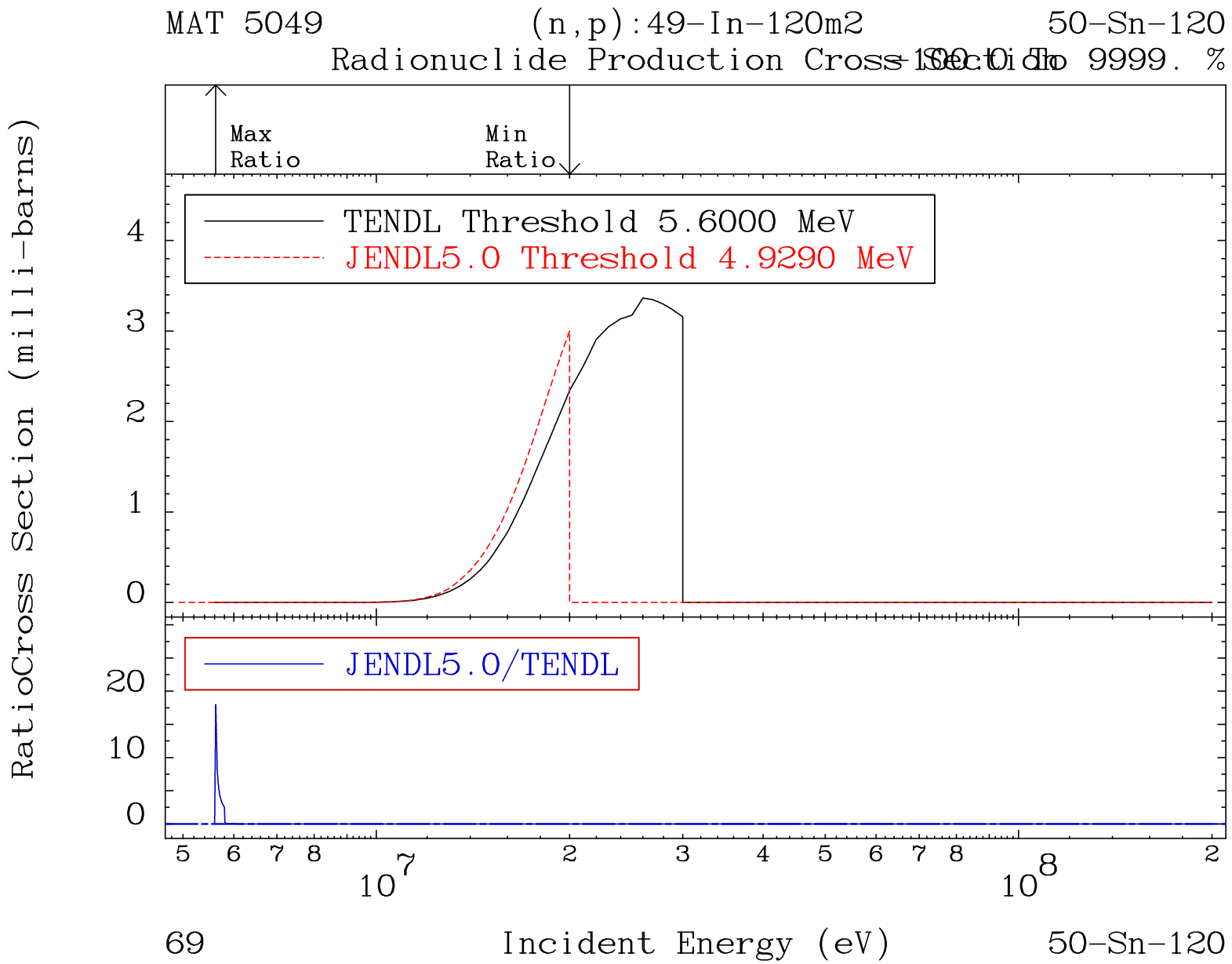

MAT 5049
(n,2n):50-Sn-119m2
50-Sn-120
Radionuclide Production Cross Section To 50.53 %
Max
Ratio
TENDL Threshold 9.2709 MeV
JENDL5.0 Threshold 9.2749 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
50-Sn-120

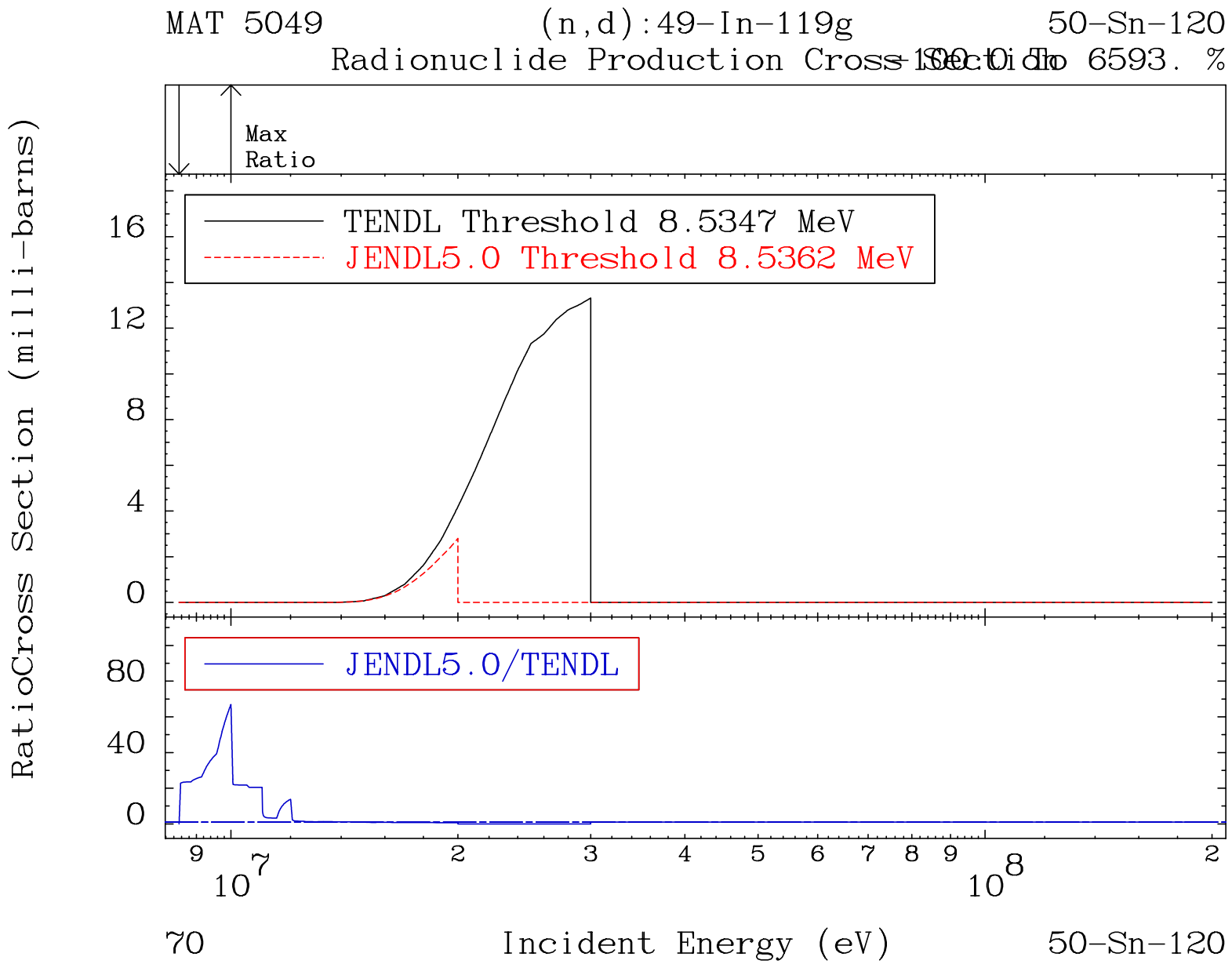

MAT 5049
(n,n') p:49-In-119g
50-Sn-120
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 10.778 MeV
JENDL5.0 Threshold 10.780 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
50-Sn-120

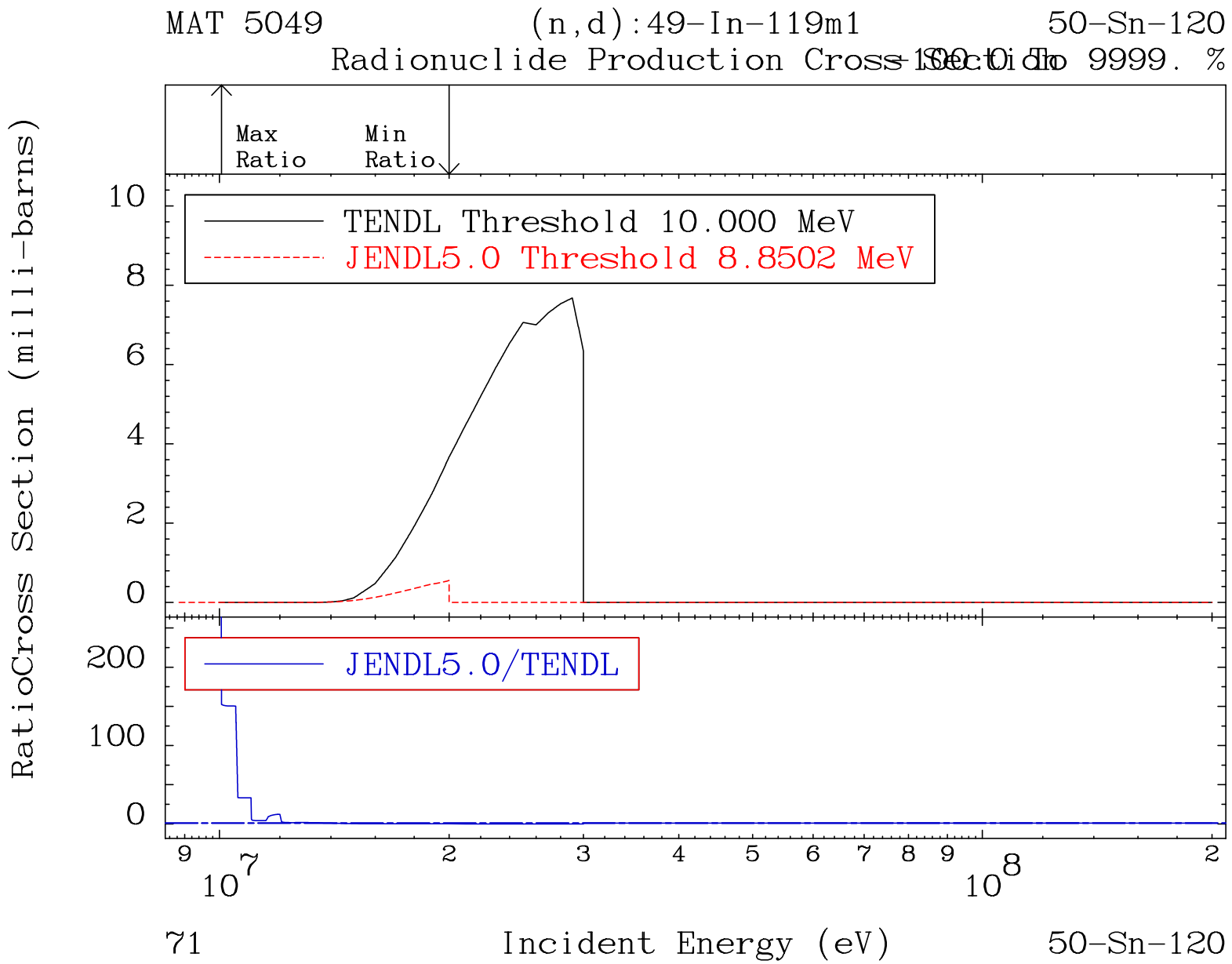

MAT 5049
(n,n') p:49-In-119m1
50-Sn-120
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 11.500 MeV
JENDL5.0 Threshold 11.093 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
66
Incident Energy (eV)
50-Sn-120

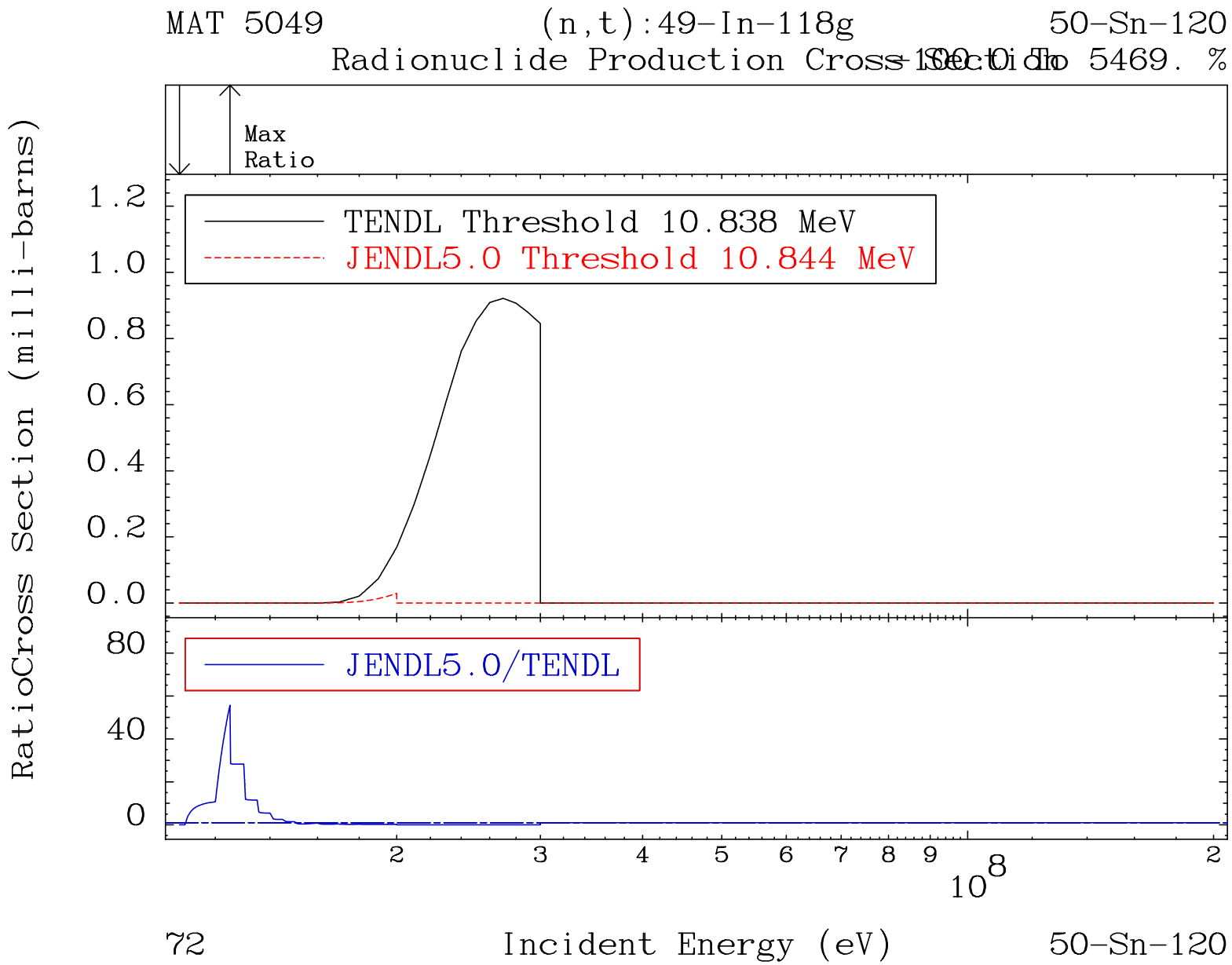

MAT 5049
(n,p):49-In-120g
50-Sn-120
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 4.6262 MeV
JENDL5.0 Threshold 6.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
67
50-Sn-120

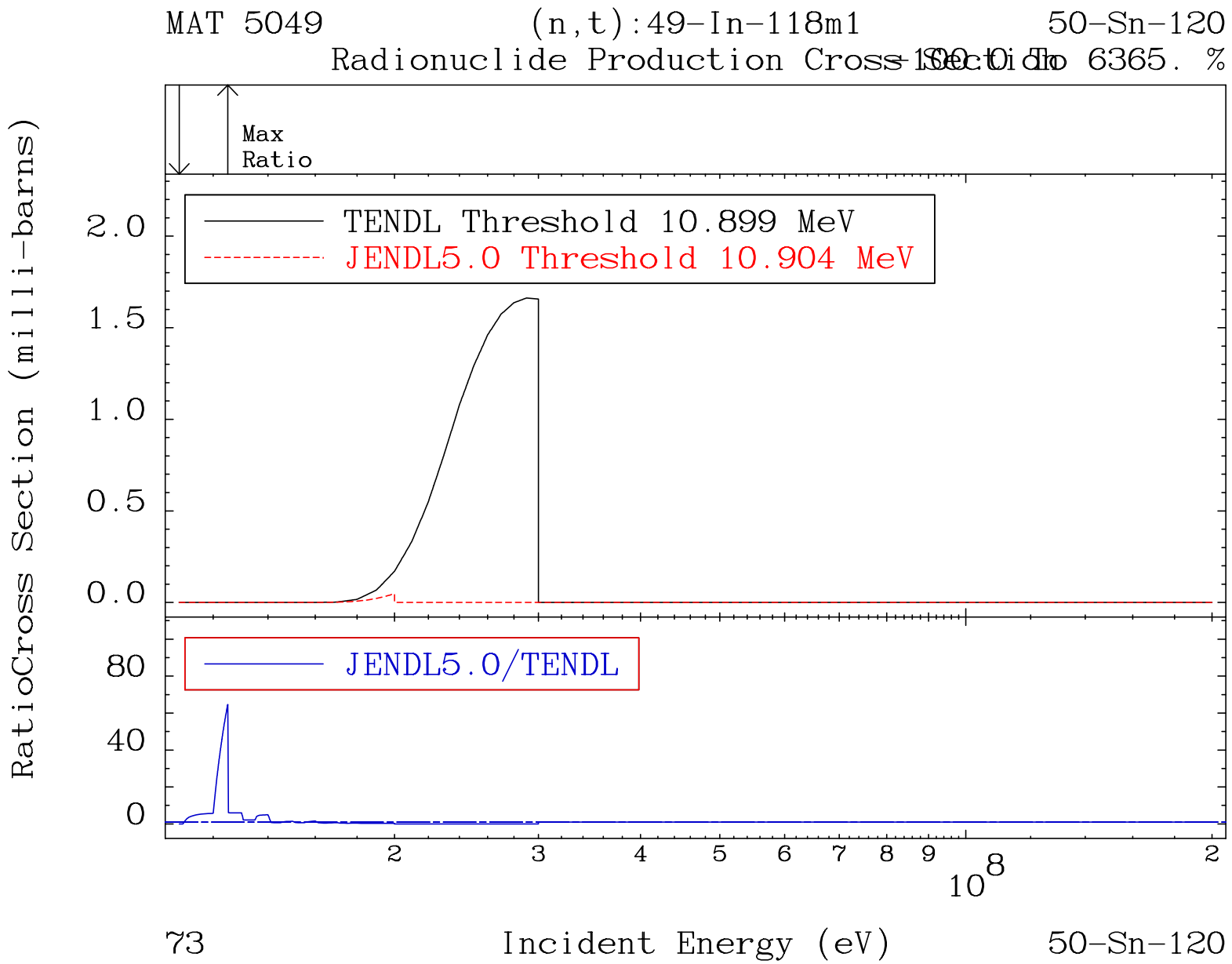

MAT 5049
(n,p):49-In-120m1
50-Sn-120
Radionuclide Production Cross Section To 64.32 %
Max
Ratio
TENDL Threshold 4.6968 MeV
JENDL5.0 Threshold 6.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
2.0
1.0
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
68
Incident Energy (eV)
50-Sn-120

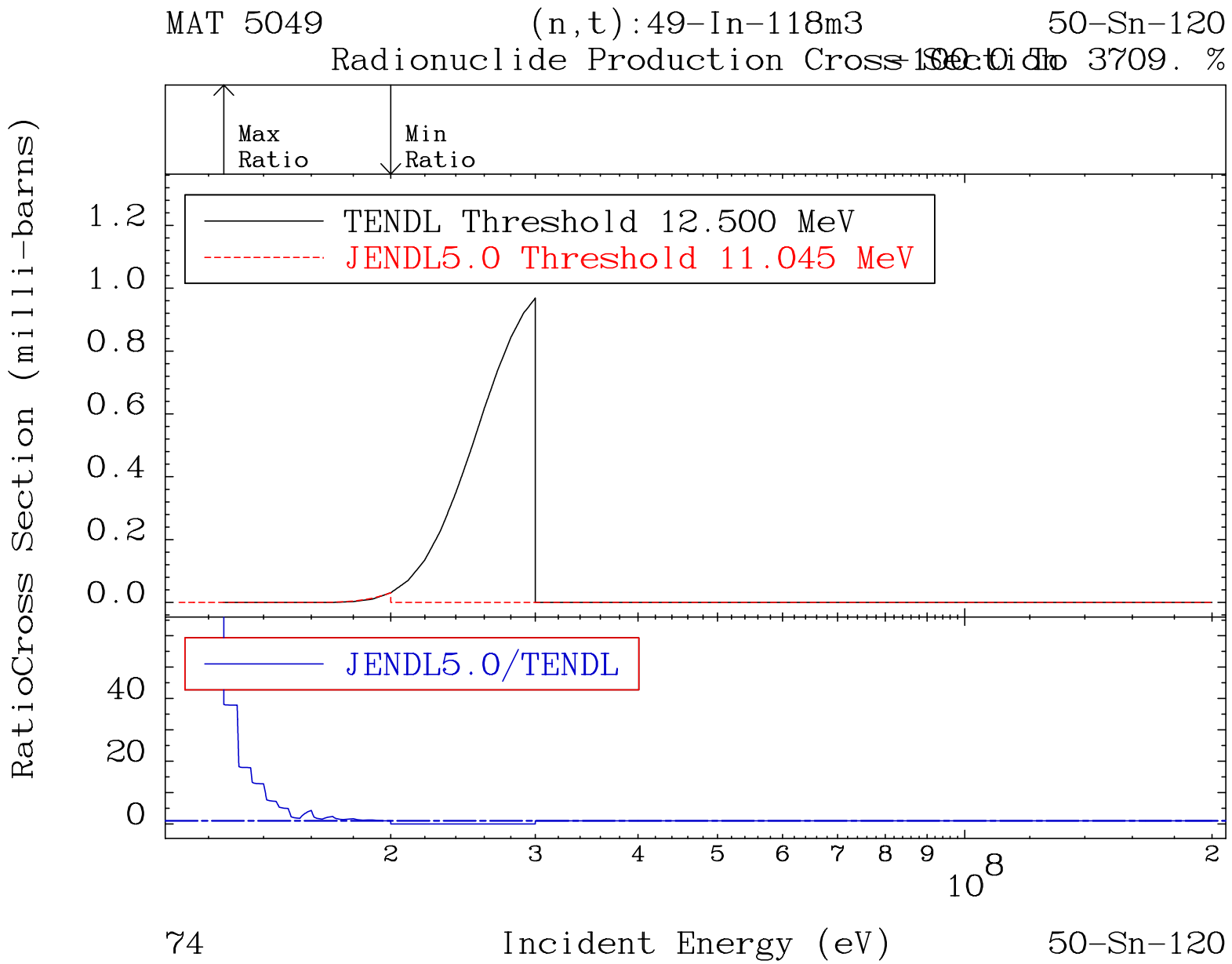

MAT 5049
(n,p):49-In-120m2
50-Sn-120
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.6000 MeV
JENDL5.0 Threshold 4.9290 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
50-Sn-120


MAT 5049
(n,d):49-In-119g
50-Sn-120
Radionuclide Production Cross Section To 6593. %
Max
Ratio
TENDL Threshold 8.5347 MeV
JENDL5.0 Threshold 8.5362 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
80
40
0
9
2
3
4
5
6
7
8
9
2
10^7
10^8
70
Incident Energy (eV)
50-Sn-120


MAT 5049
(n,d):49-In-119m1
50-Sn-120
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.000 MeV
JENDL5.0 Threshold 8.8502 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
50-Sn-120


MAT 5049
(n,t):49-In-118g
50-Sn-120
Radionuclide Production Cross Section To 5469. %
Max
Ratio
TENDL Threshold 10.838 MeV
JENDL5.0 Threshold 10.844 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
80
40
0
2
3
4
5
6
7
8
9
2
10^8
72
Incident Energy (eV)
50-Sn-120


MAT 5049
(n,t):49-In-118m1
50-Sn-120
Radionuclide Production Cross Section To 6365. %
Max
Ratio
TENDL Threshold 10.899 MeV
JENDL5.0 Threshold 10.904 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
80
40
0
2
3
4
5
6
7
8
9
2
10^8
73
Incident Energy (eV)
50-Sn-120


MAT 5049
(n,t):49-In-118m3
50-Sn-120
Radionuclide Production Cross Section To 3709. %
Max Ratio
Min Ratio
TENDL Threshold 12.500 MeV
JENDL5.0 Threshold 11.045 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
40
20
0
2
3
4
5
6
7
8
9
10^8
2
74
Incident Energy (eV)
50-Sn-120