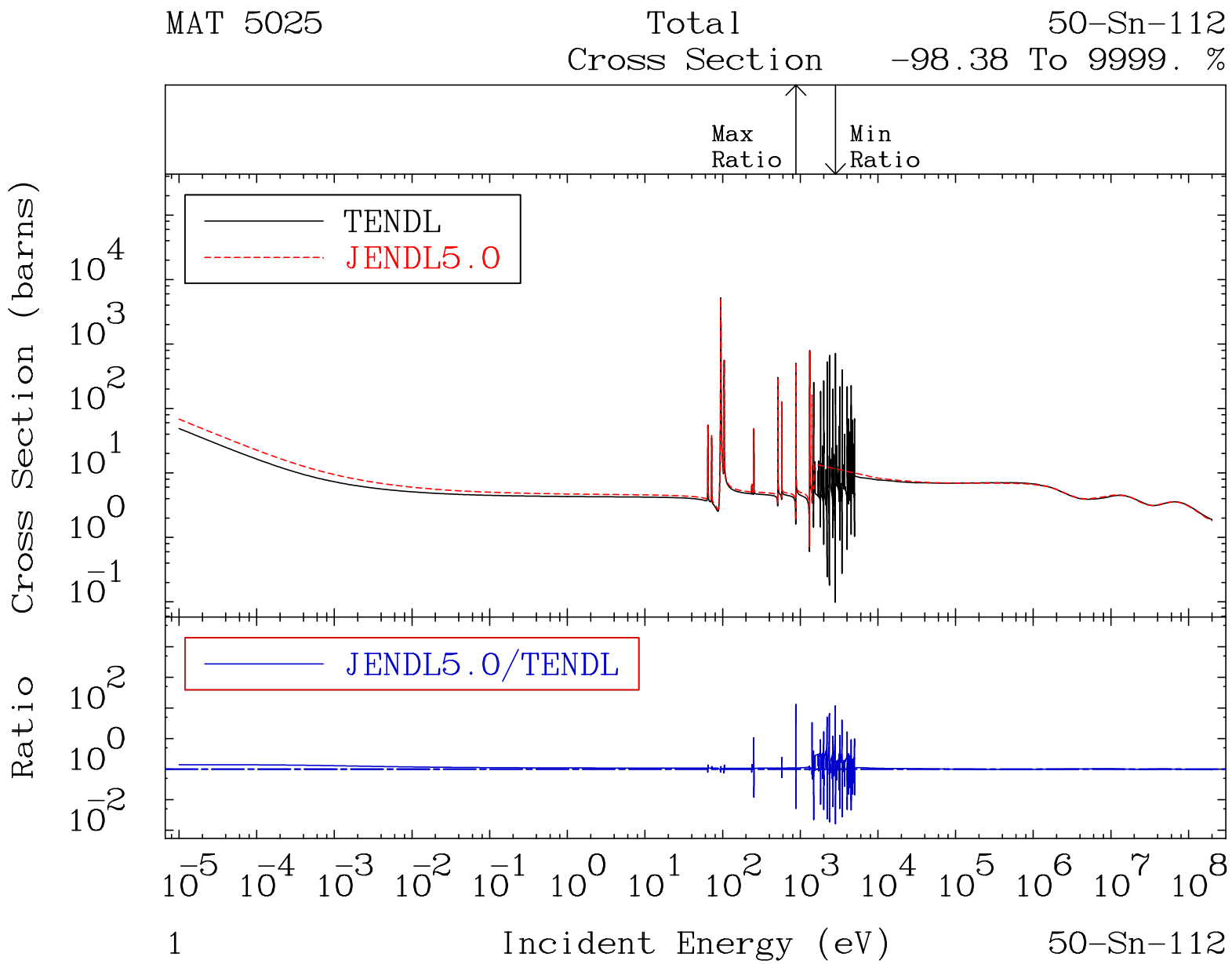
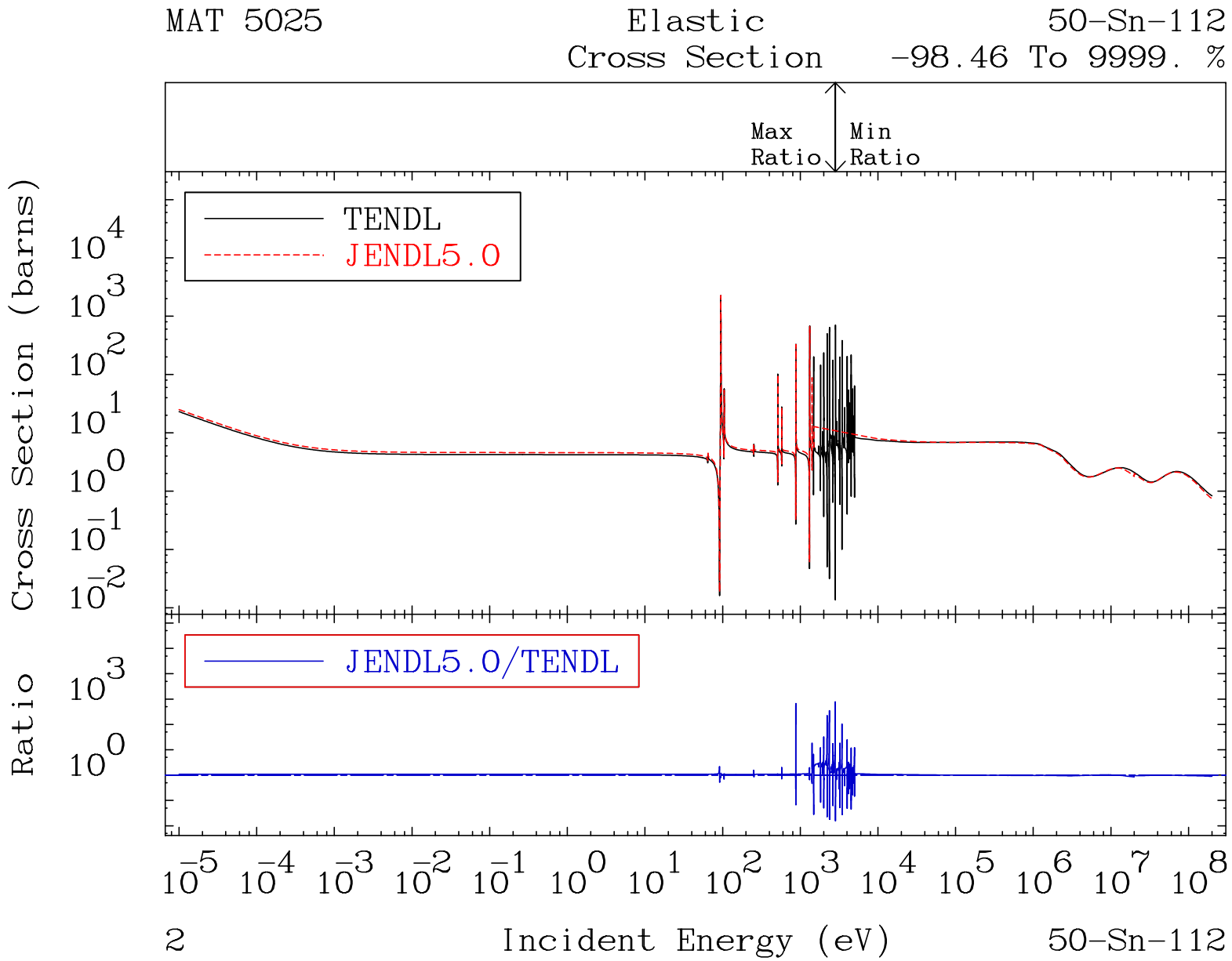
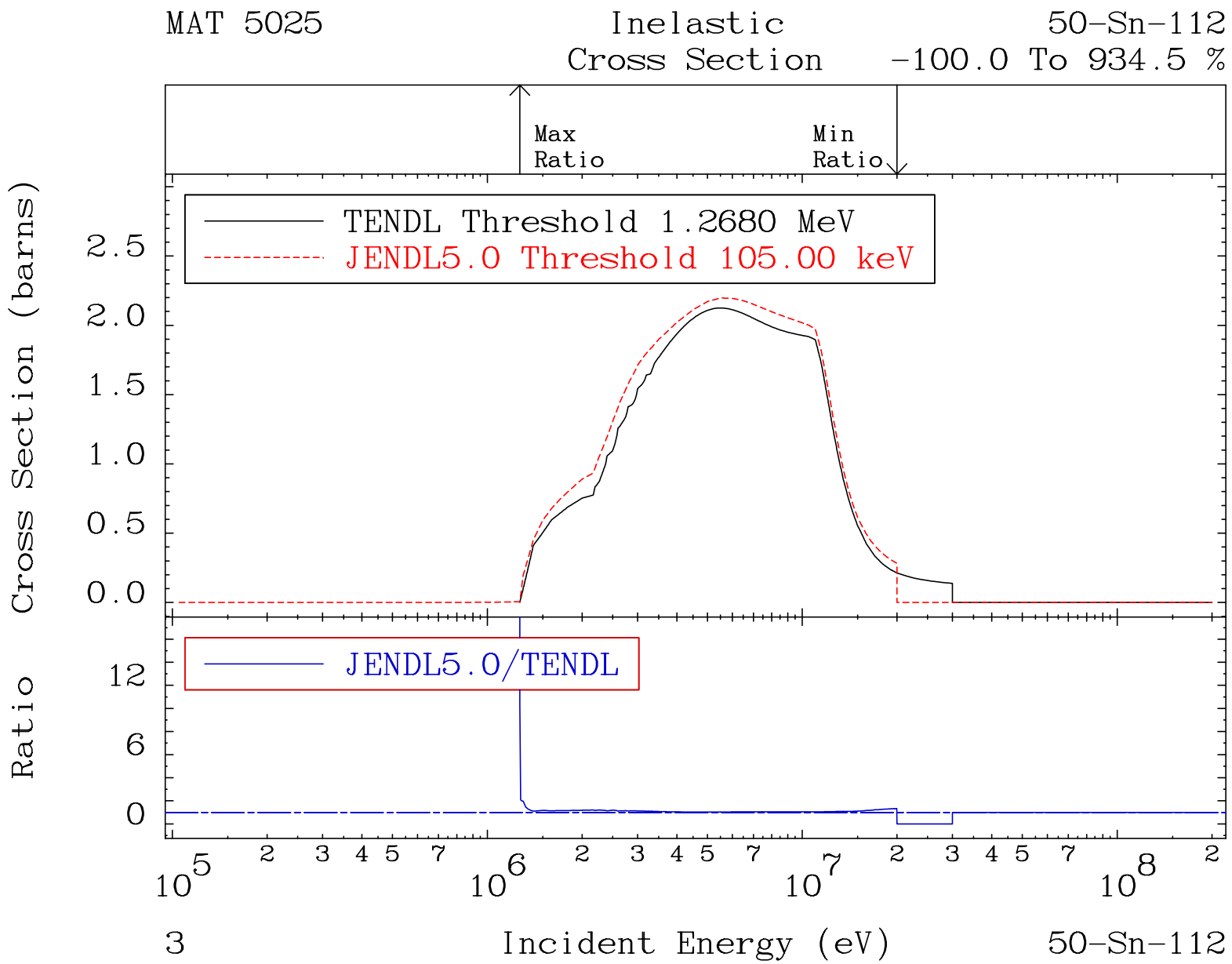
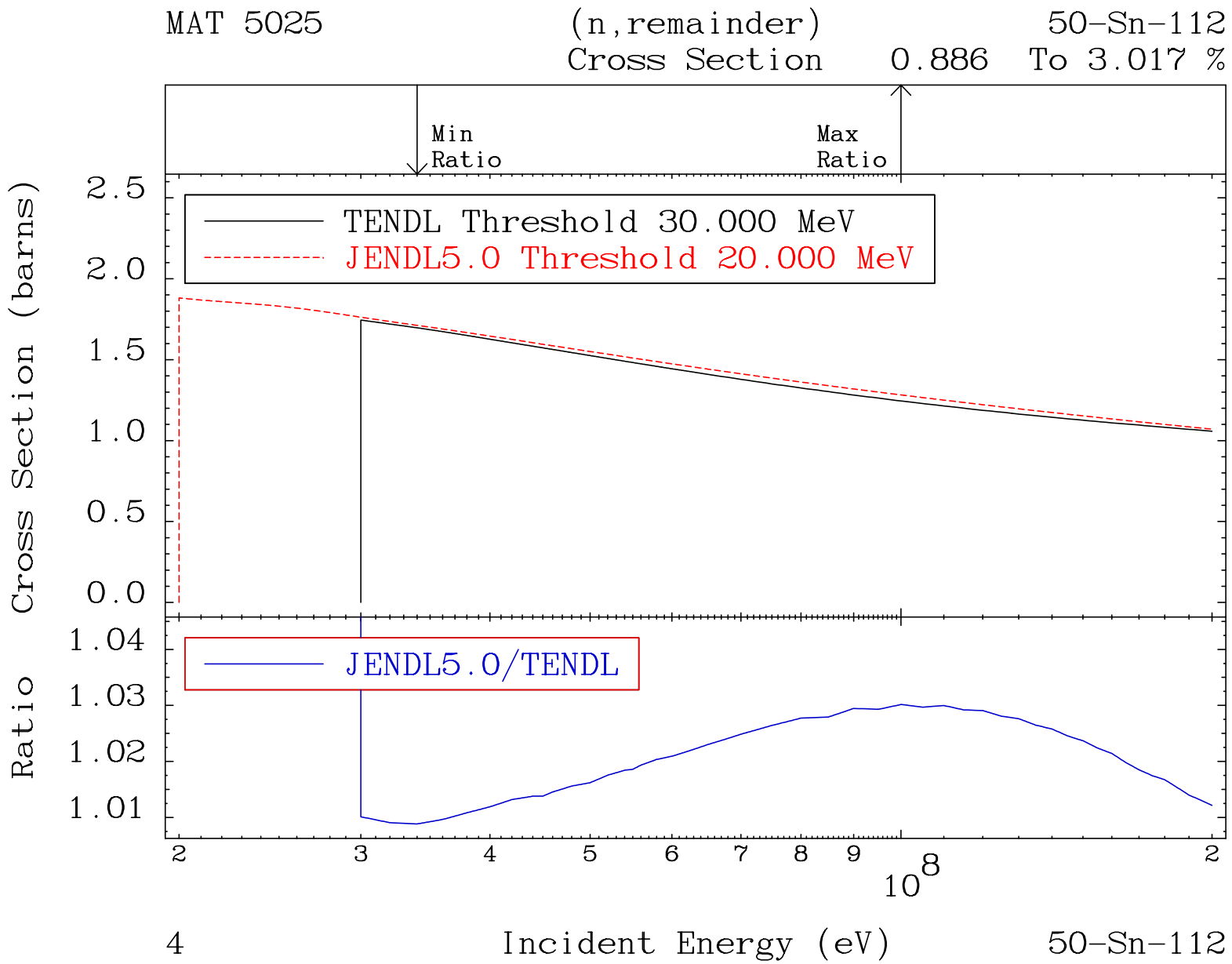
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

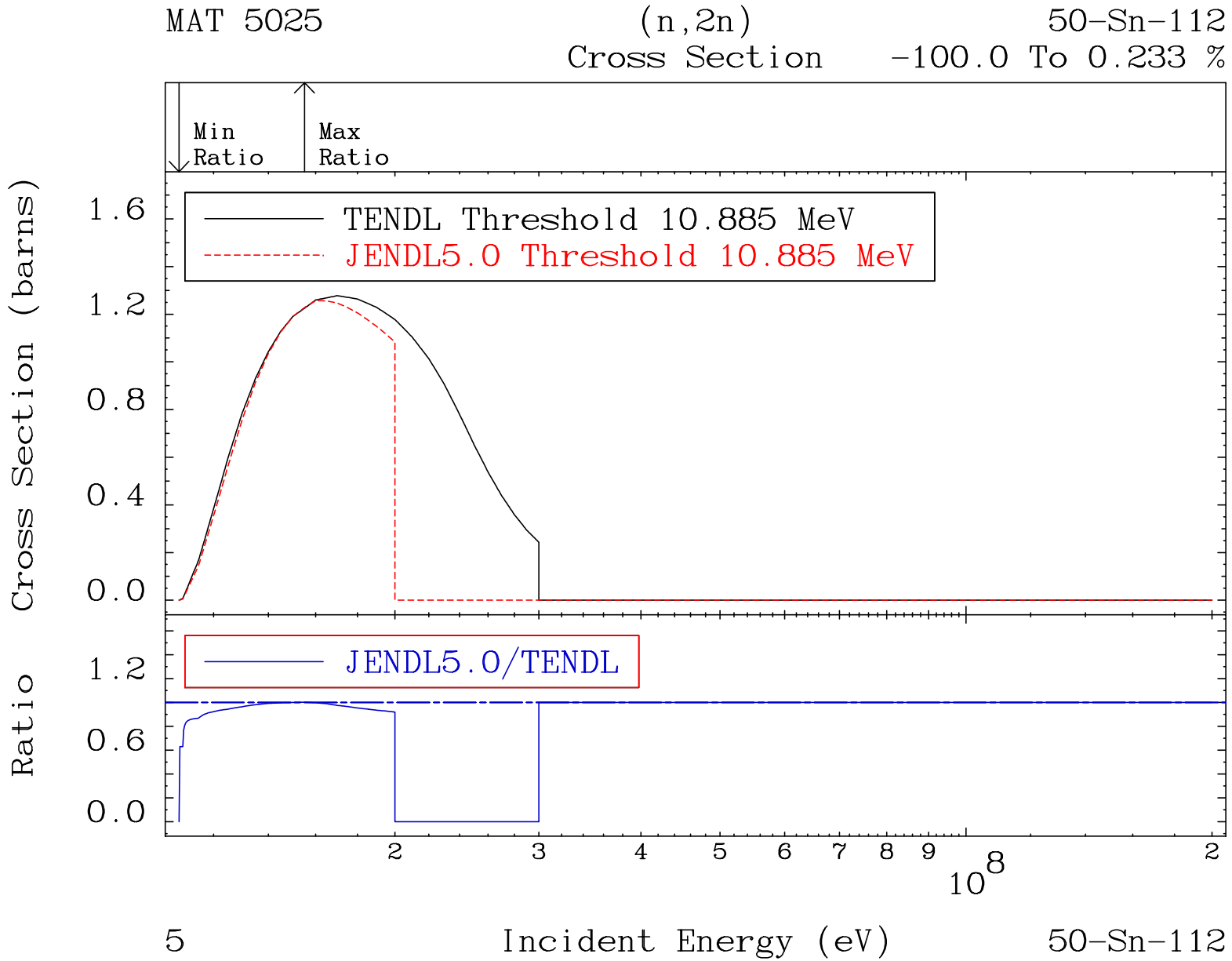
Press Mouse Button to Start

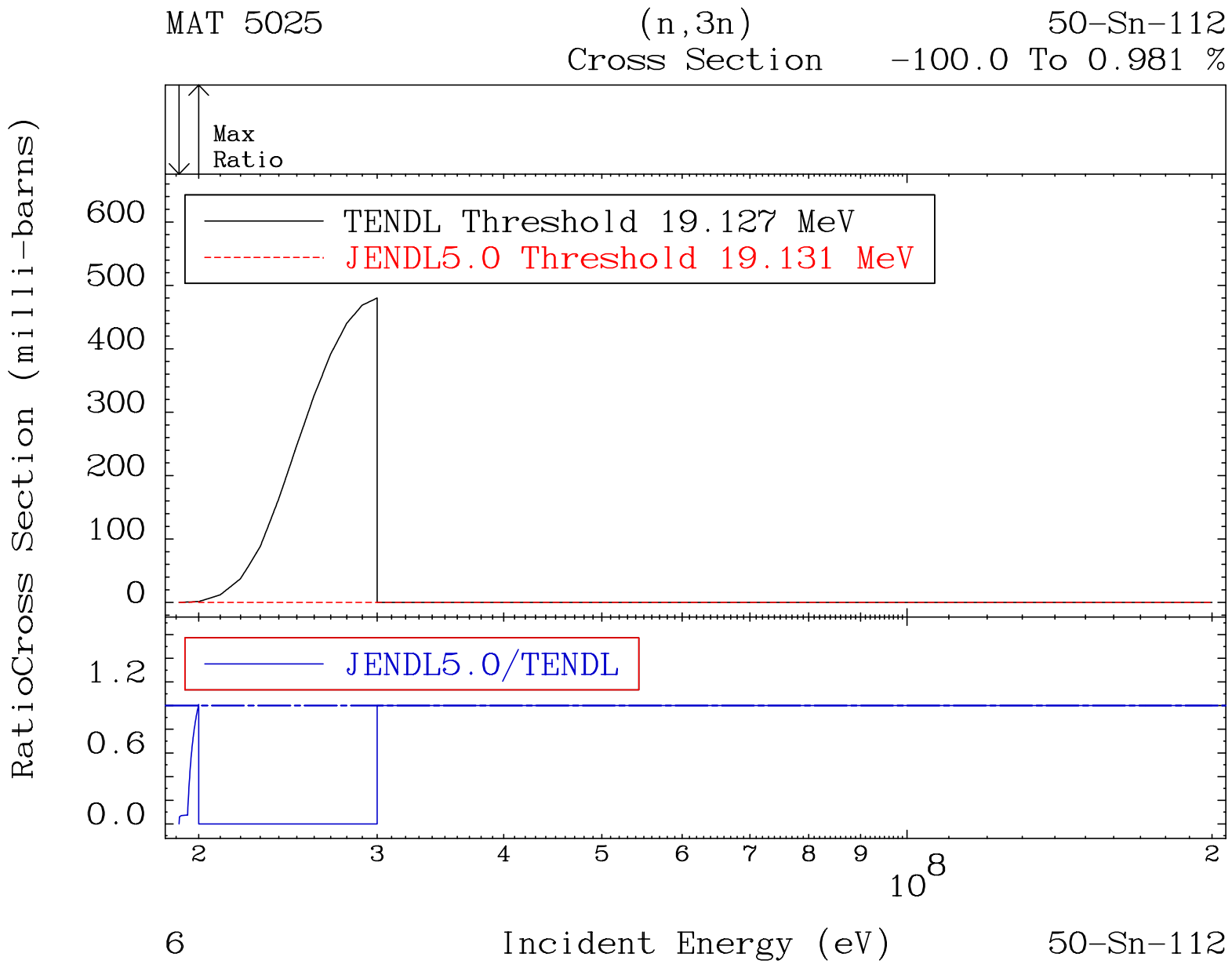

MAT 5025
Total
Cross Section
50-Sn-112
-98.38 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
1
50-Sn-112

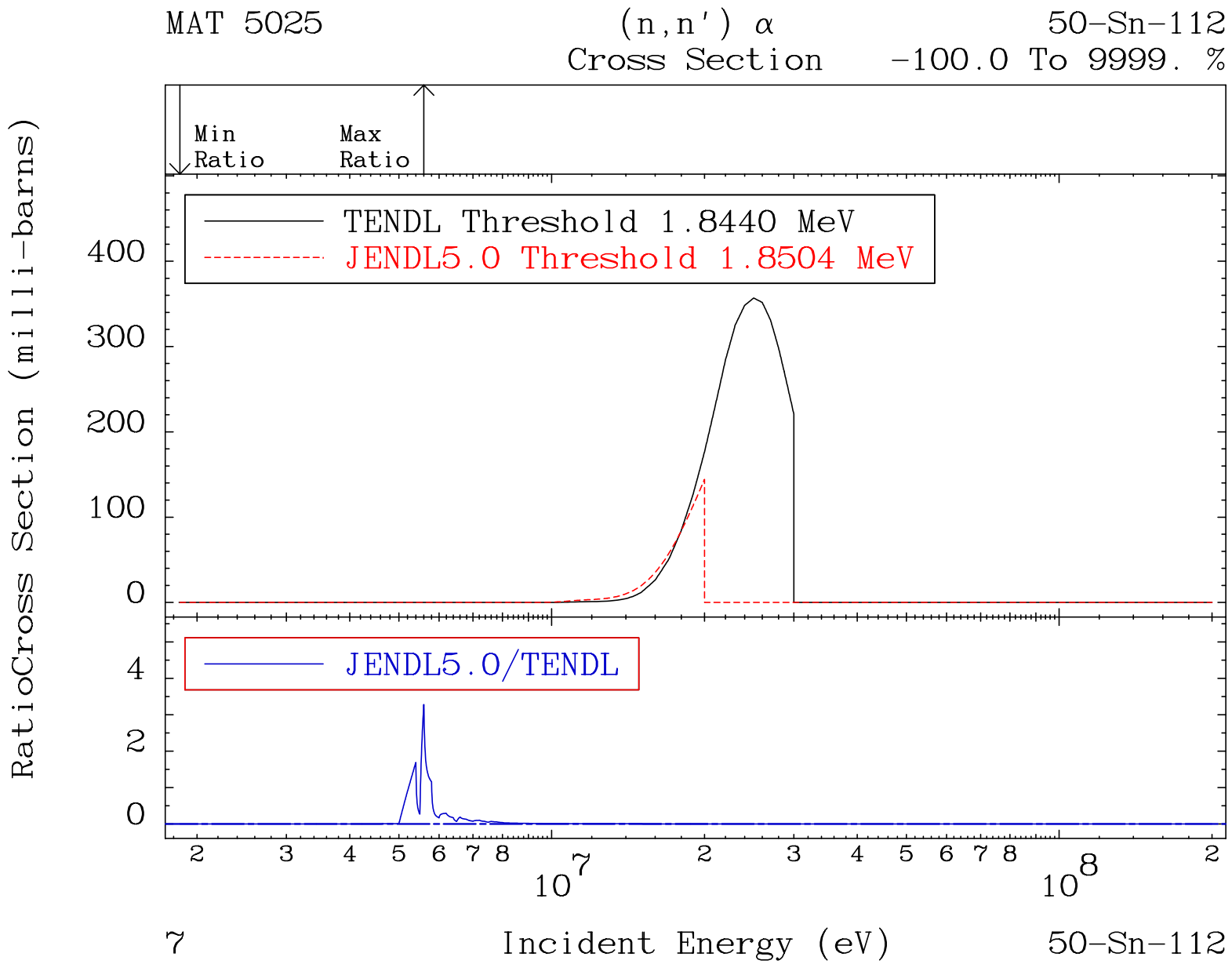

MAT 5025
Elastic
Cross Section
50-Sn-112
-98.46 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
50-Sn-112

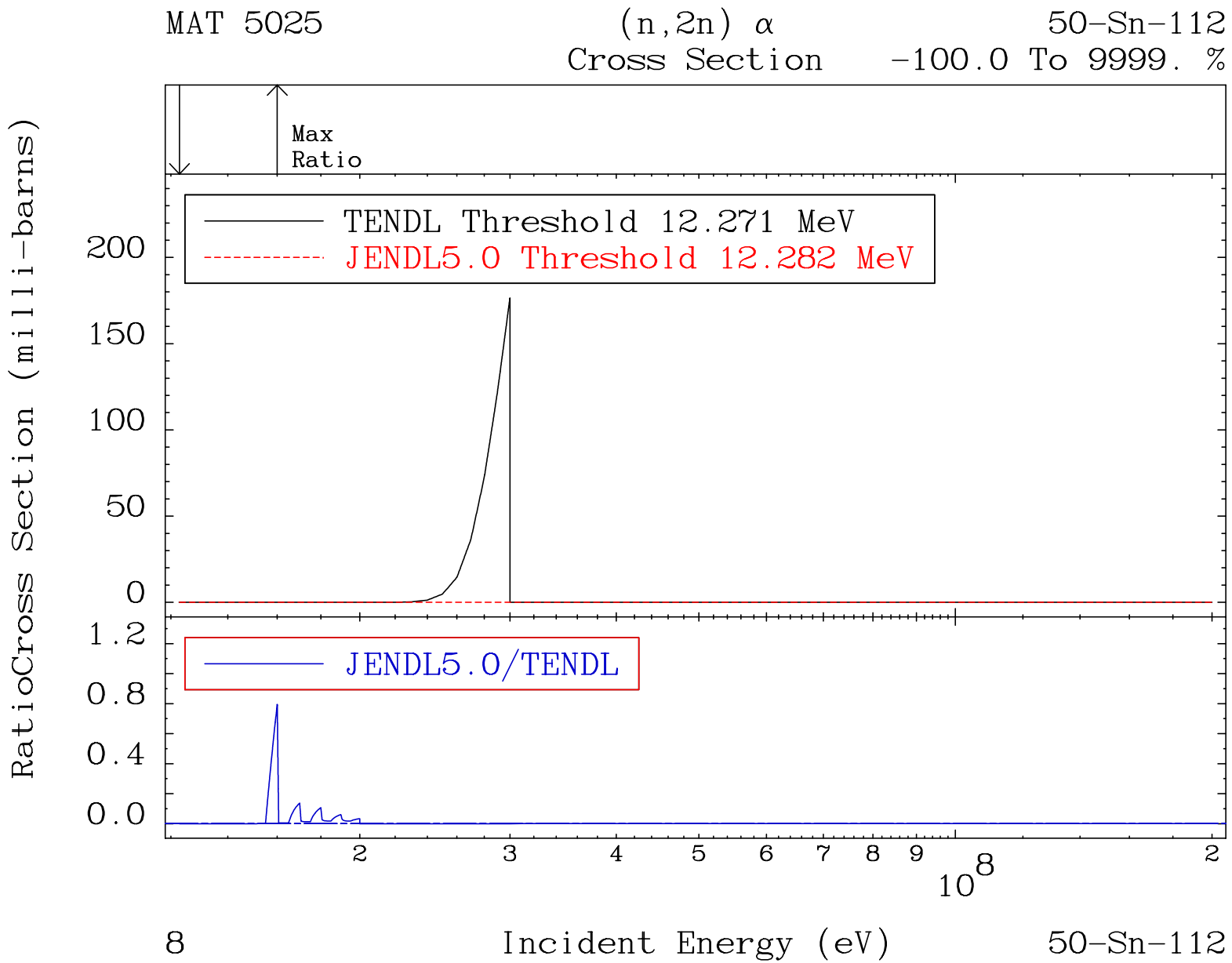

MAT 5025
Inelastic
Cross Section
50-Sn-112
-100.0 To 934.5 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.2680 MeV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
12
6
0
10^5
10^6
10^7
10^8
Incident Energy (eV)
3
50-Sn-112

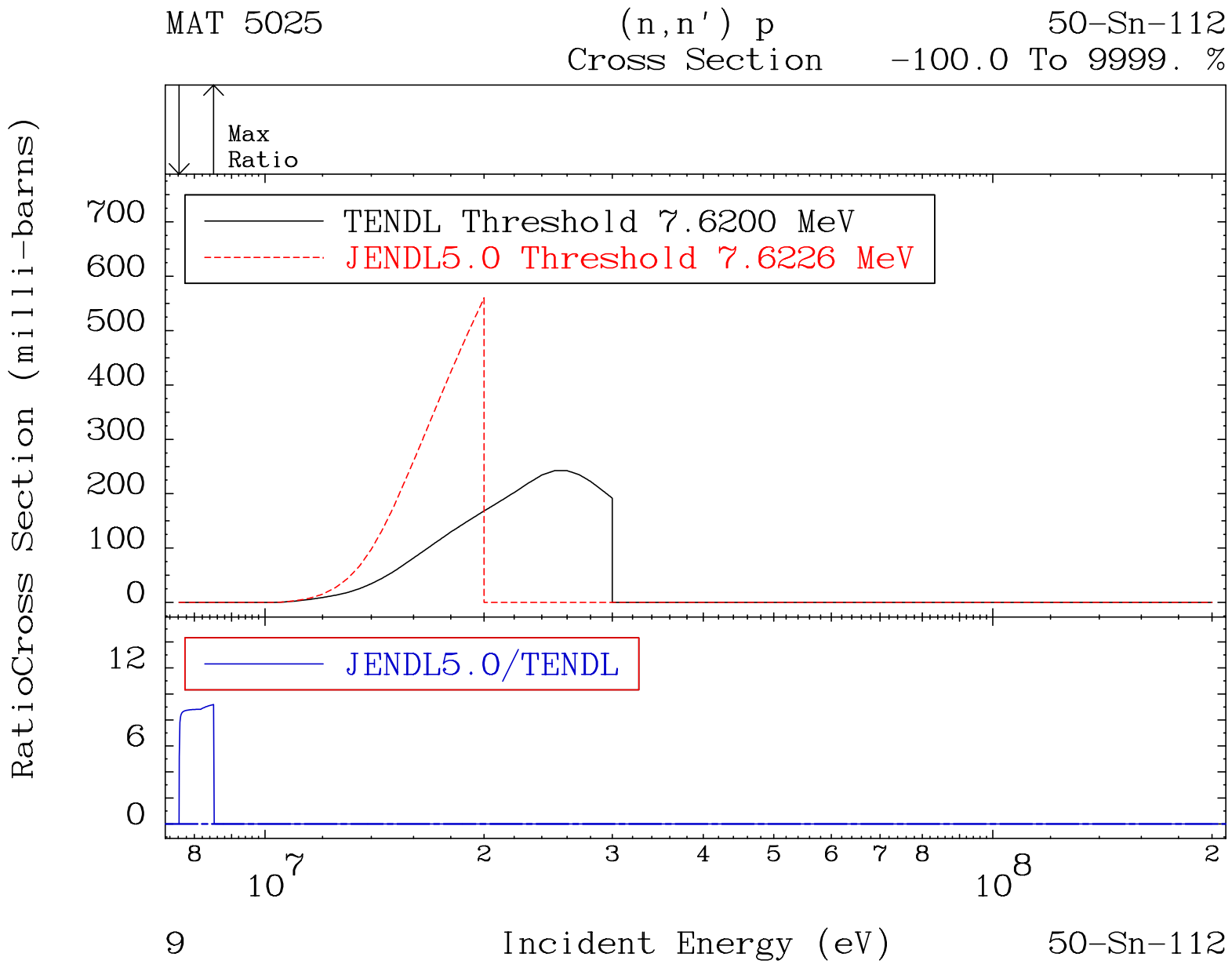

MAT 5025
(n,remainder)
50-Sn-112
Cross Section
0.886
To 3.017 %
Min
Ratio
Max
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.03
1.02
1.01
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
50-Sn-112

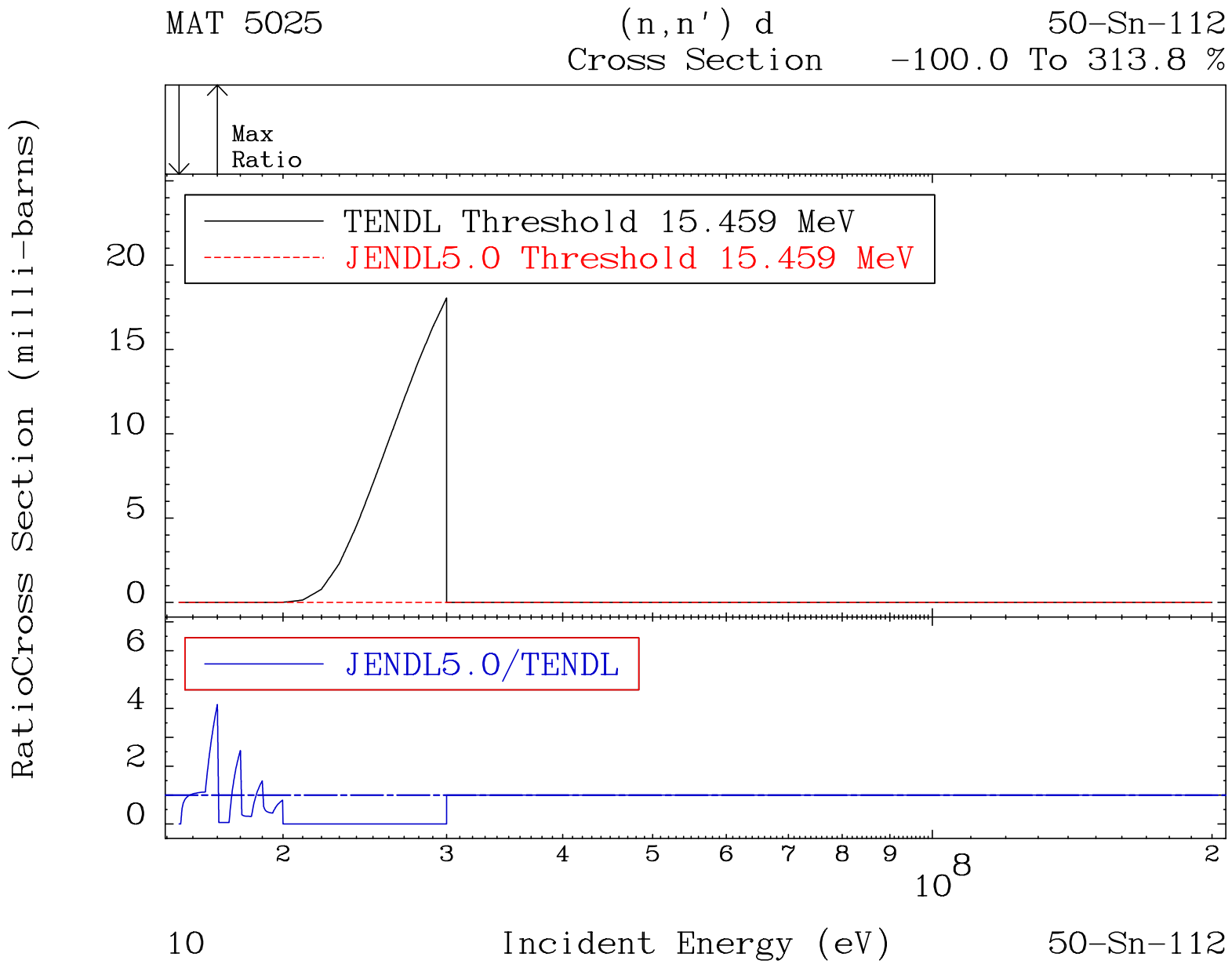

MAT 5025
(n,2n)
Cross Section
50-Sn-112
-100.0 To 0.233 %
Min Ratio
Max Ratio
TENDL Threshold 10.885 MeV
JENDL5.0 Threshold 10.885 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
50-Sn-112

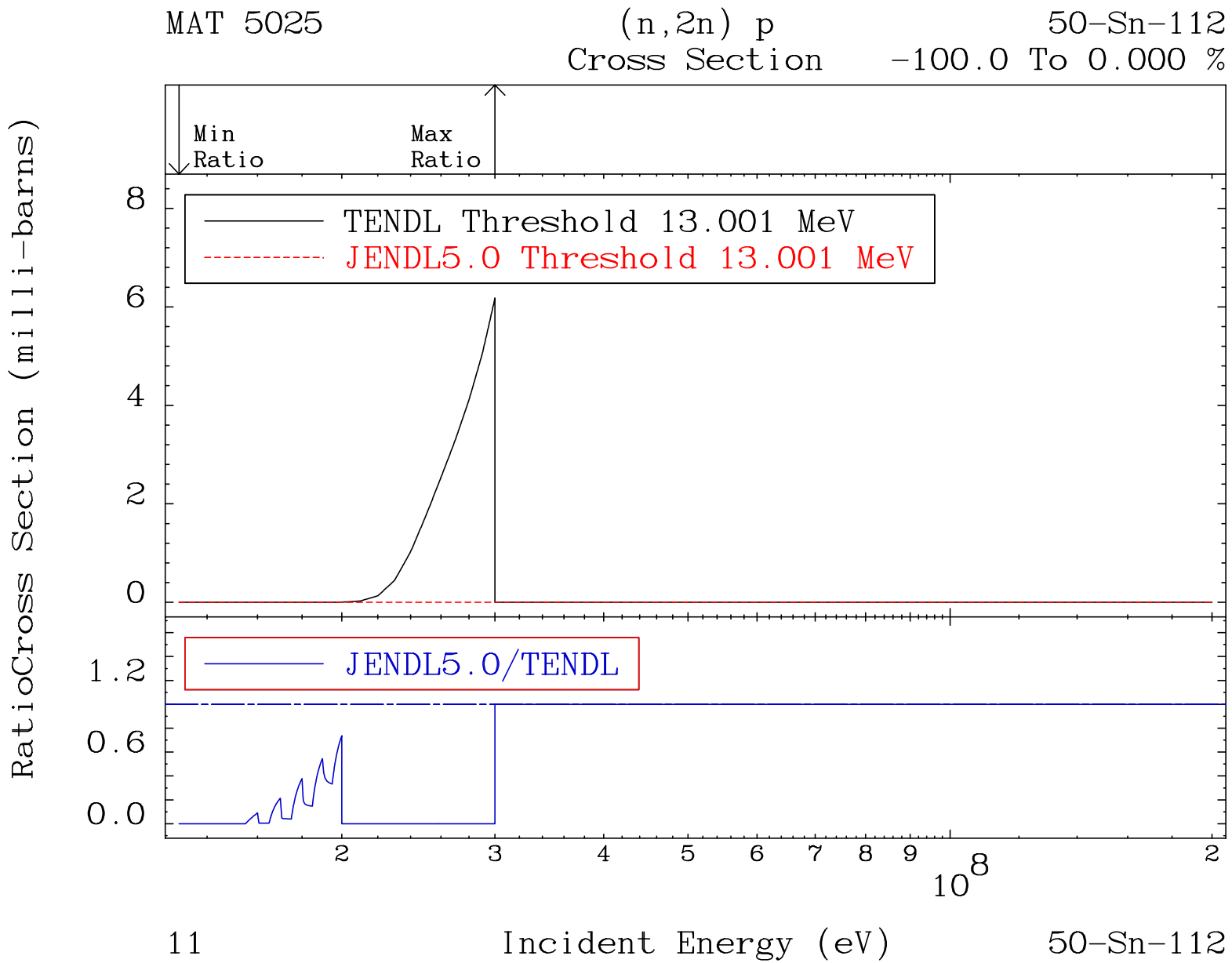

MAT 5025
(n,3n)
Cross Section
50-Sn-112
-100.0 To 0.981 %
Max
Ratio
TENDL Threshold 19.127 MeV
JENDL5.0 Threshold 19.131 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
50-Sn-112

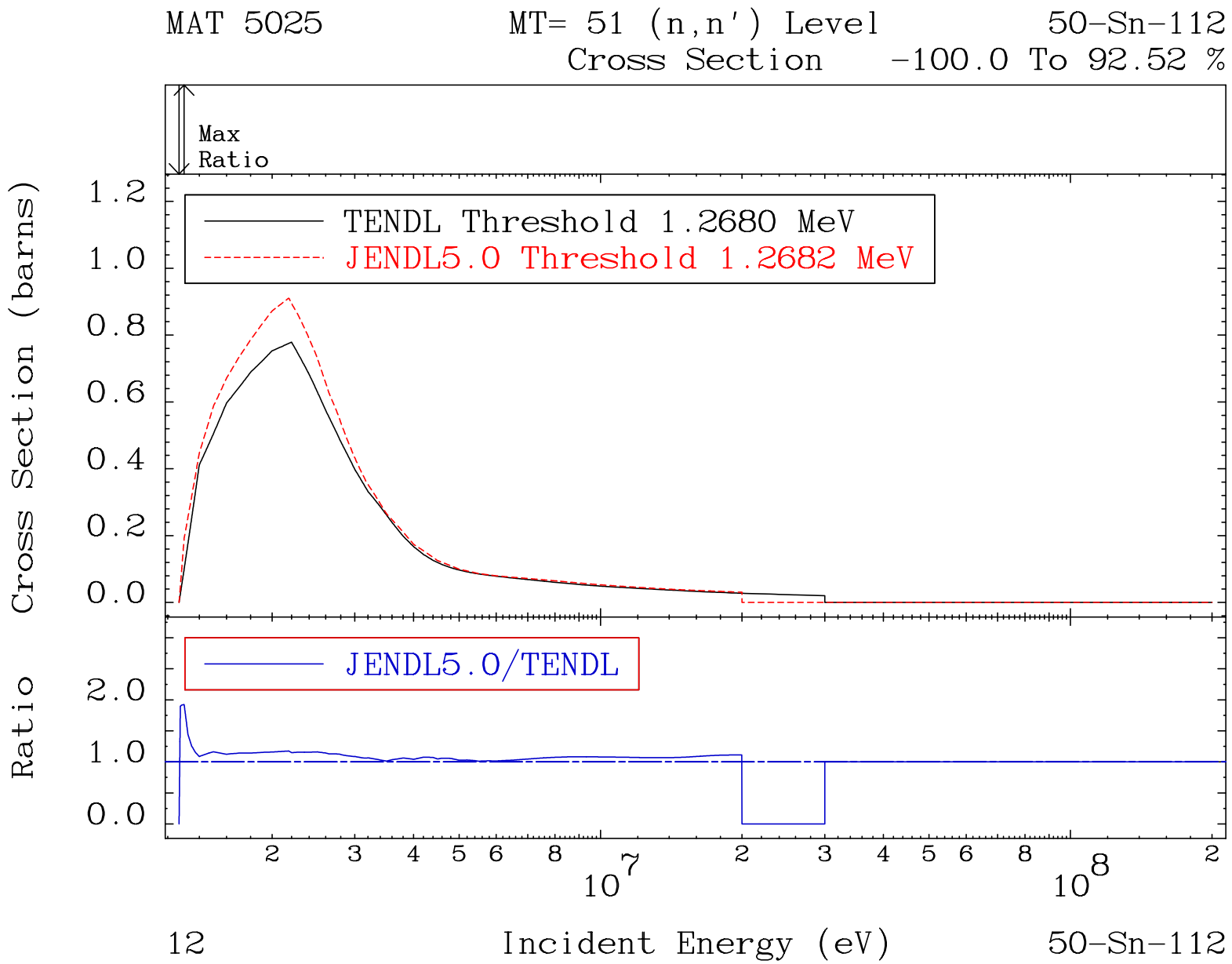

MAT 5025
(n,n') α
Cross Section
50-Sn-112
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8440 MeV
JENDL5.0 Threshold 1.8504 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
50-Sn-112

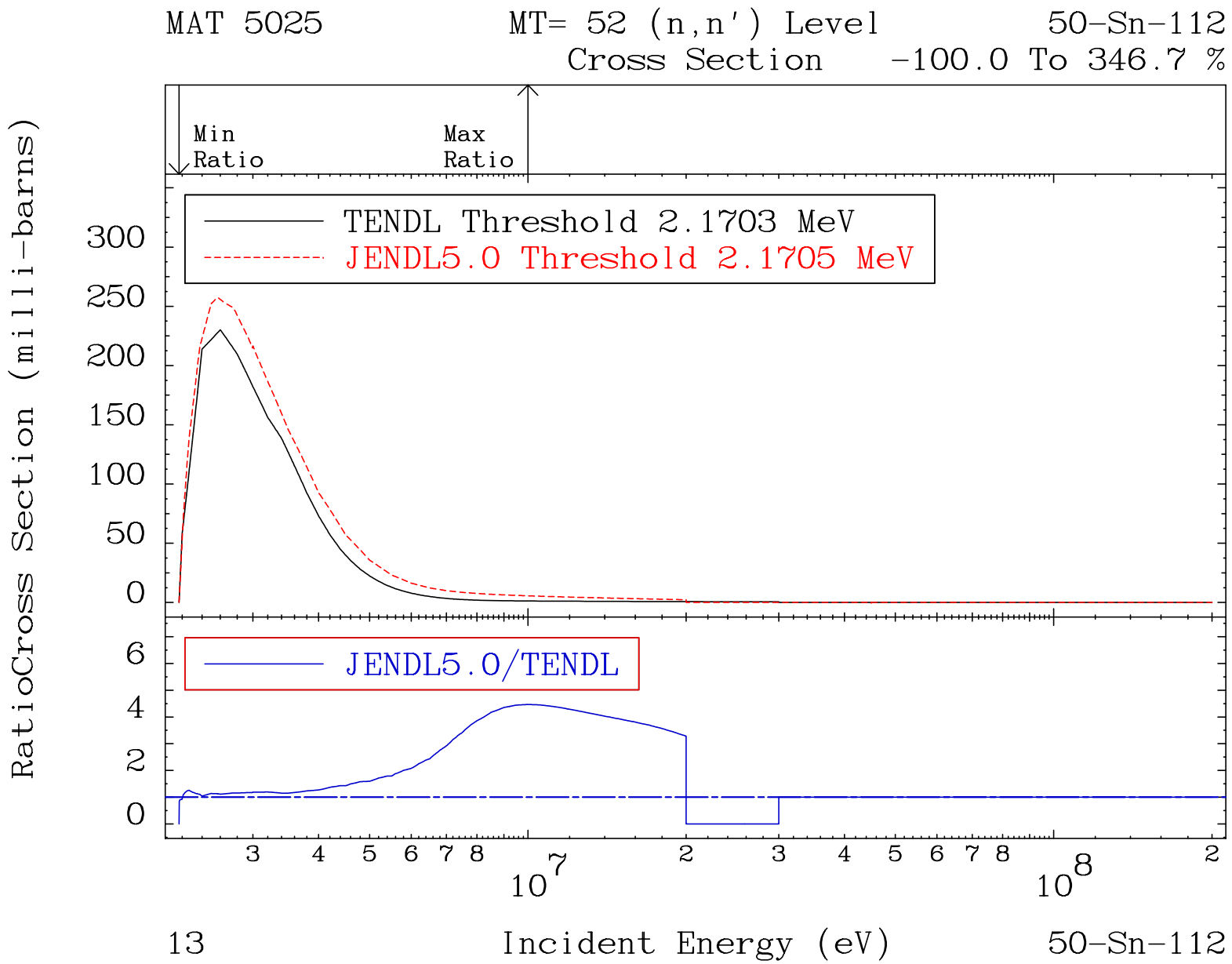

MAT 5025
(n,2n) α
50-Sn-112
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 12.271 MeV
JENDL5.0 Threshold 12.282 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
50-Sn-112

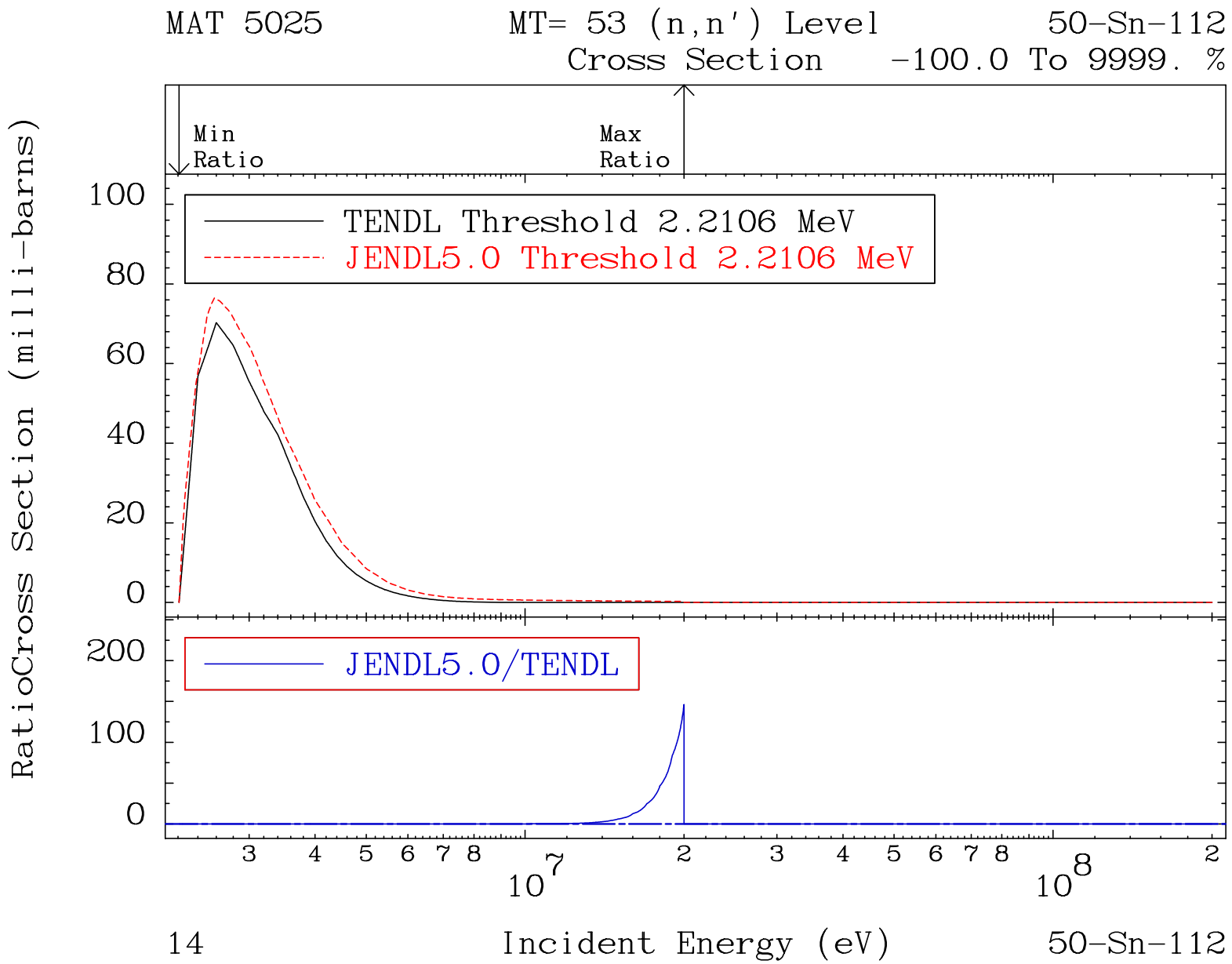

MAT 5025
(n,n') p
Cross Section
50-Sn-112
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 7.6200 MeV
JENDL5.0 Threshold 7.6226 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
12
6
0
8
2
3
4
5
6
7
8
2
10^7
10^8
9
Incident Energy (eV)
50-Sn-112

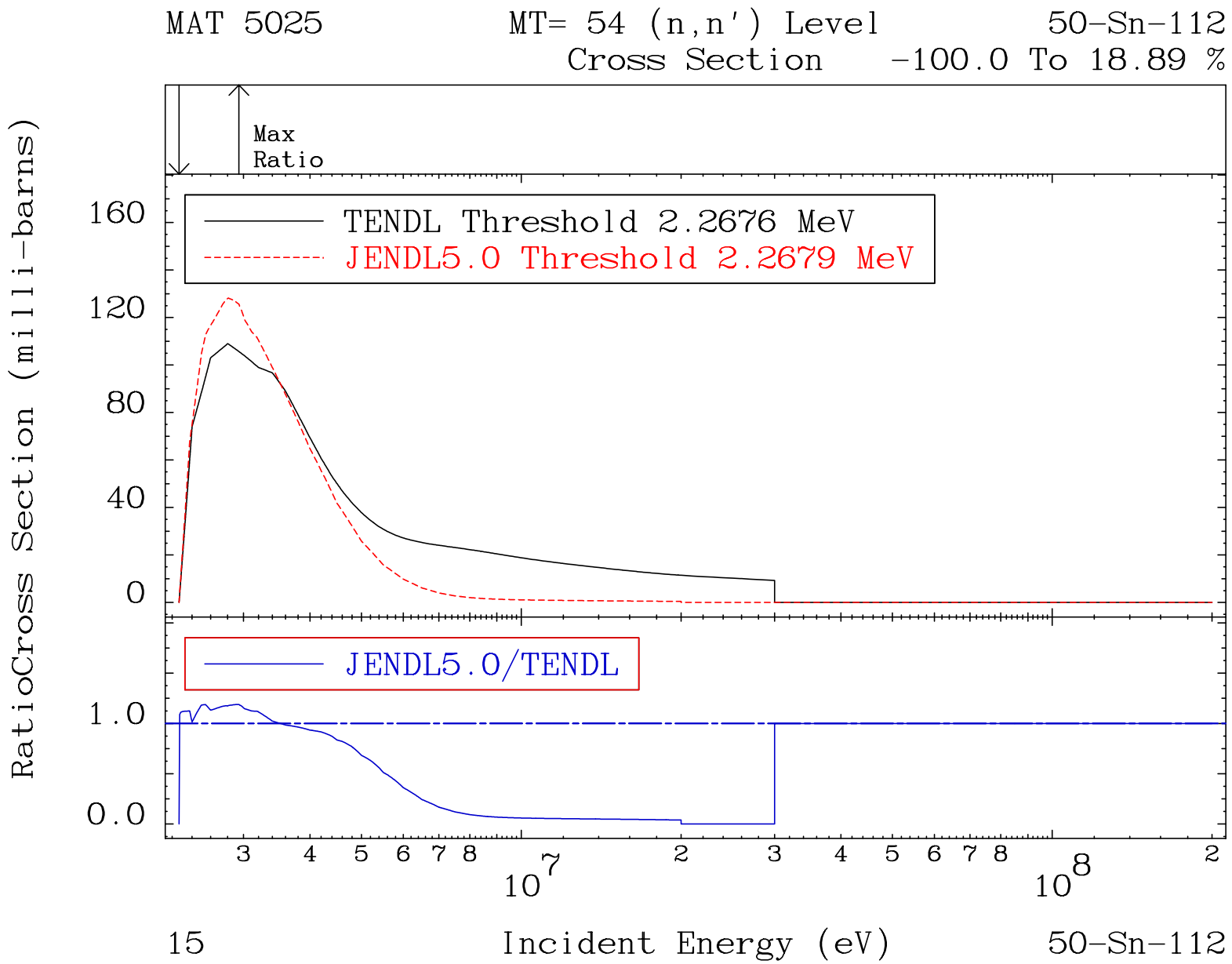

MAT 5025
(n,n') d
Cross Section
50-Sn-112
-100.0 To 313.8 %
Max
Ratio
TENDL Threshold 15.459 MeV
JENDL5.0 Threshold 15.459 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
6
4
2
0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
50-Sn-112

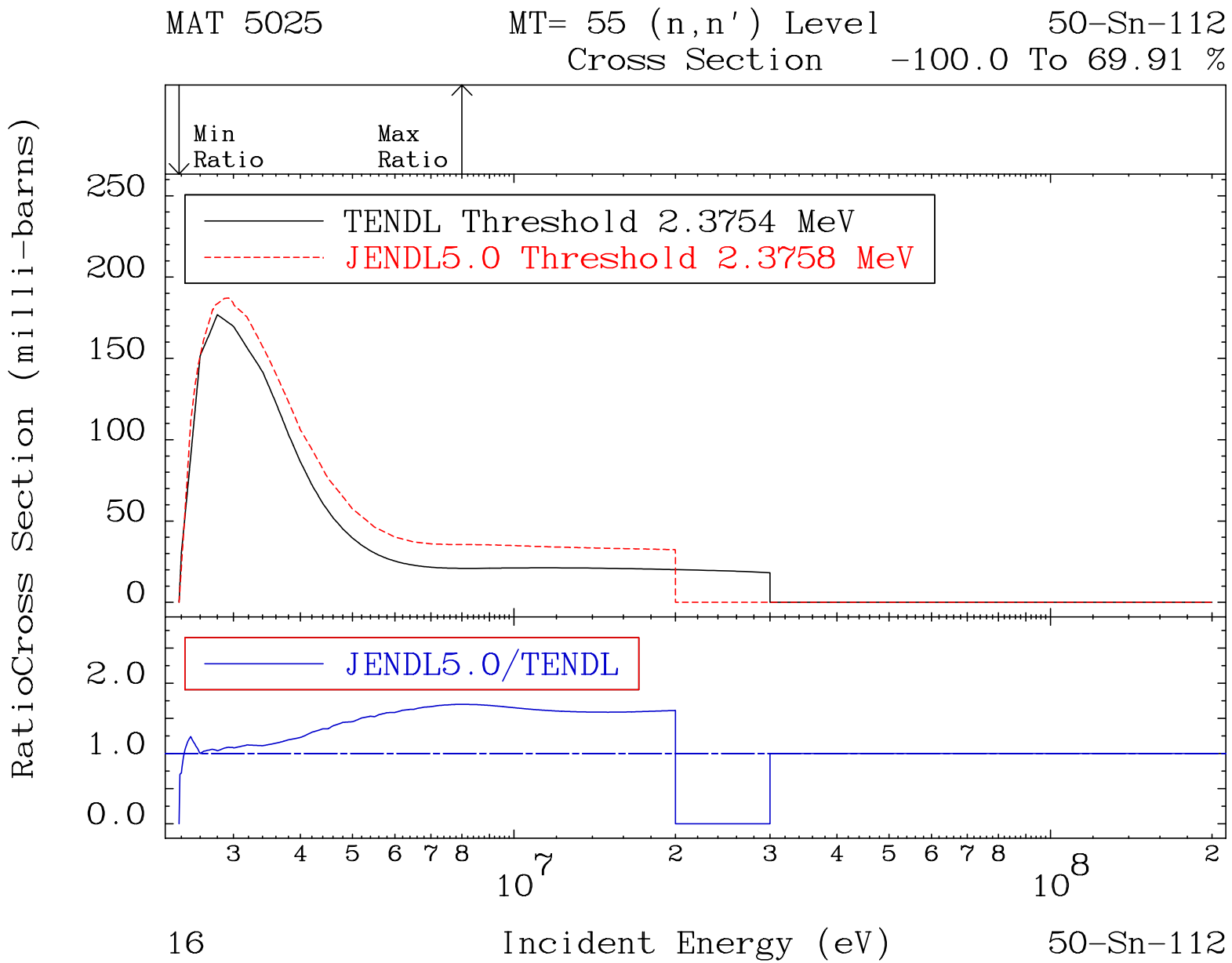

MAT 5025
(n,2n) p
Cross Section
50-Sn-112
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 13.001 MeV
JENDL5.0 Threshold 13.001 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
11
Incident Energy (eV)
50-Sn-112

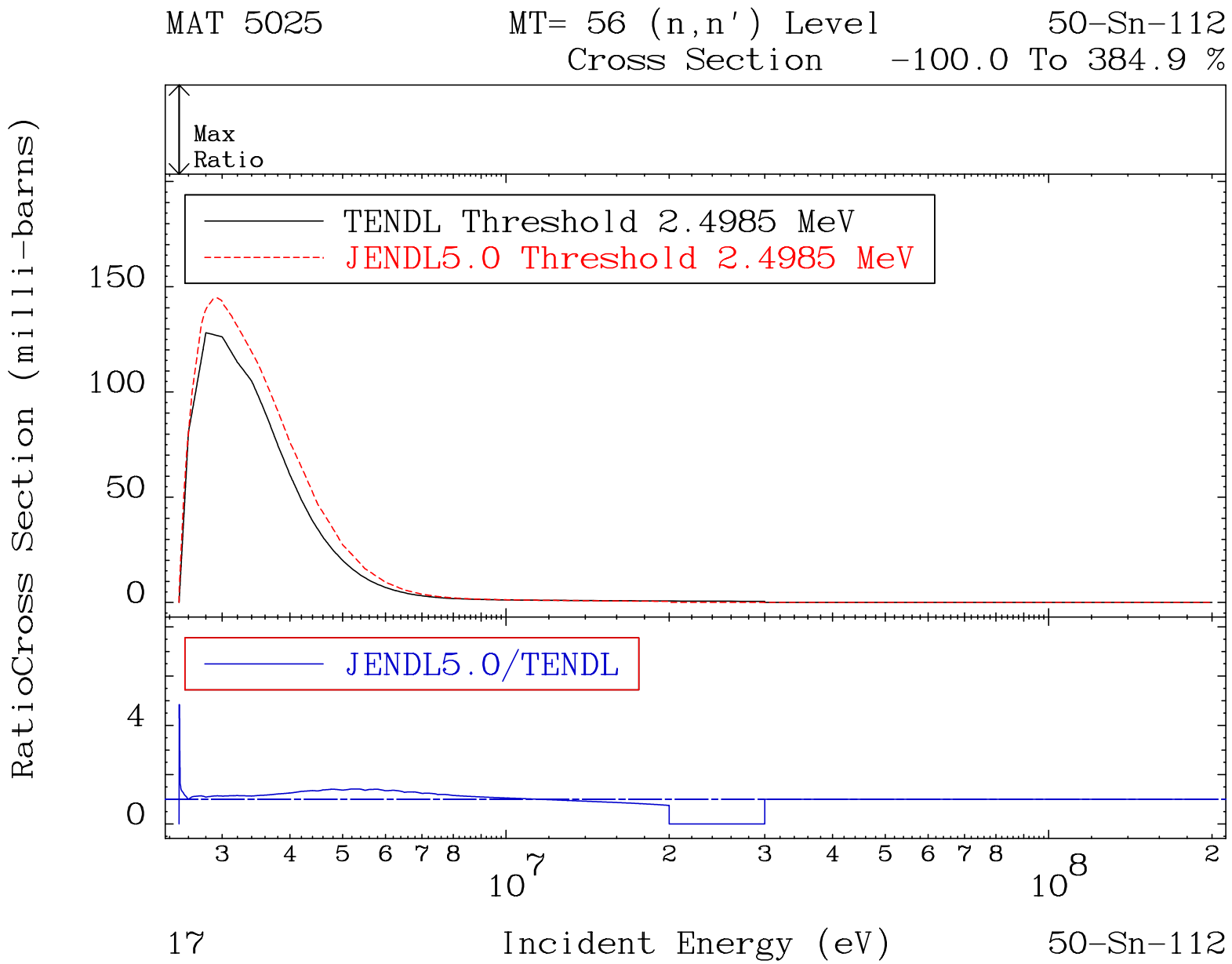

MAT 5025
MT= 51 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 92.52 %
Max
Ratio
TENDL Threshold 1.2680 MeV
JENDL5.0 Threshold 1.2682 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
10^8
12
Incident Energy (eV)
50-Sn-112

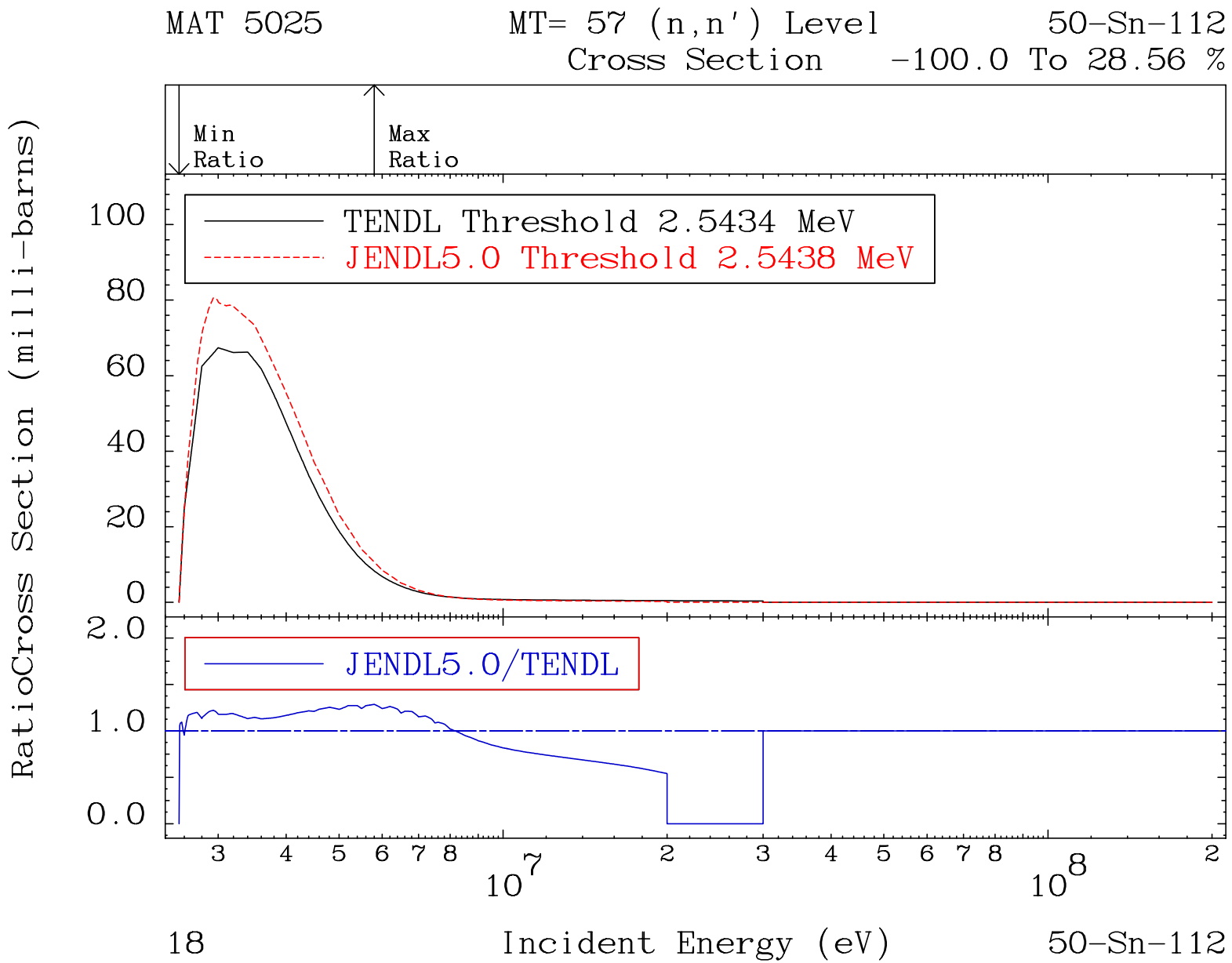

MAT 5025
MT= 52 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 346.7 %
Min Ratio
Max Ratio
TENDL Threshold 2.1703 MeV
JENDL5.0 Threshold 2.1705 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
6
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
50-Sn-112

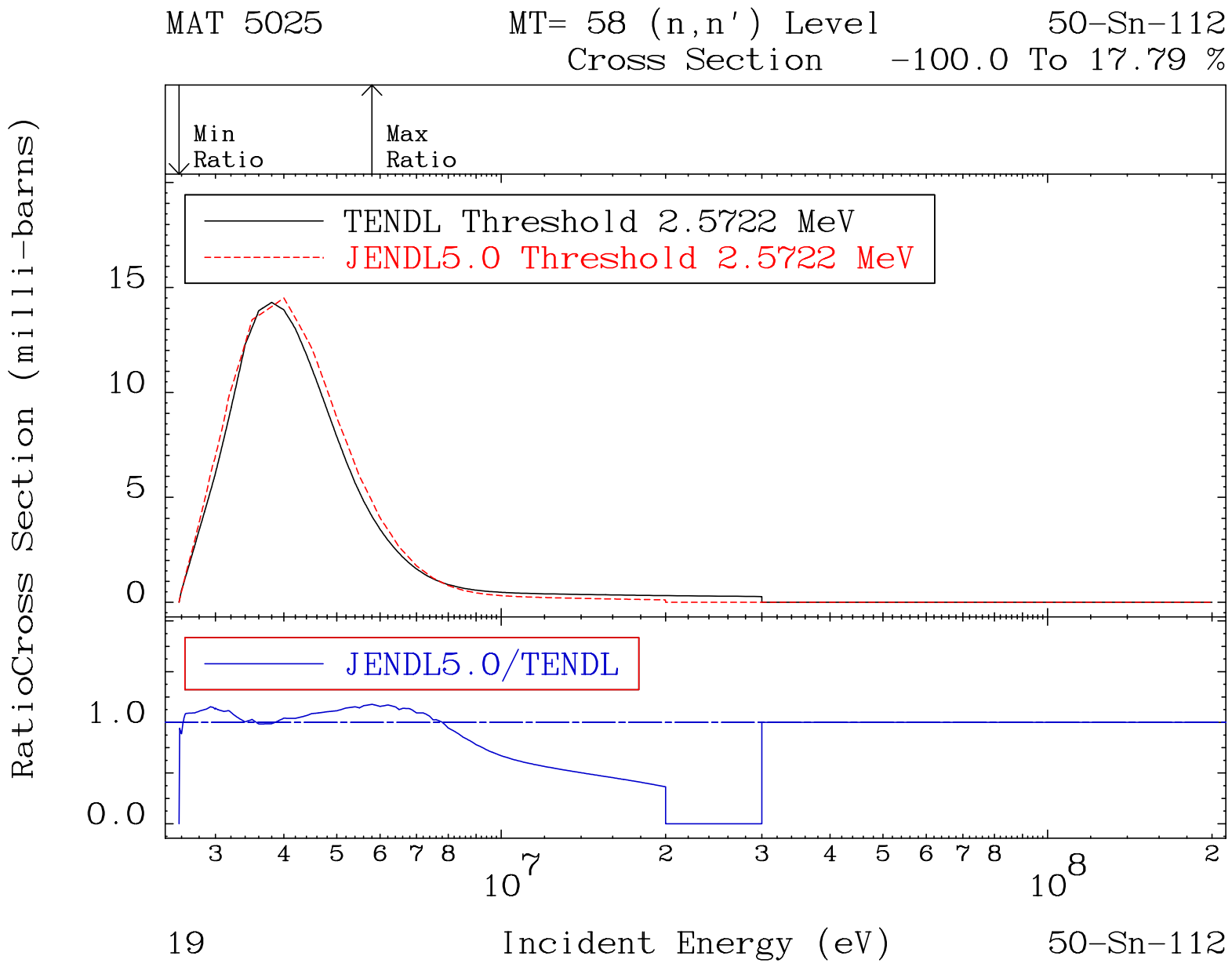

MAT 5025
MT= 53 (n,n') Level
50-Sn-112
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.2106 MeV
JENDL5.0 Threshold 2.2106 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
200
100
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
50-Sn-112

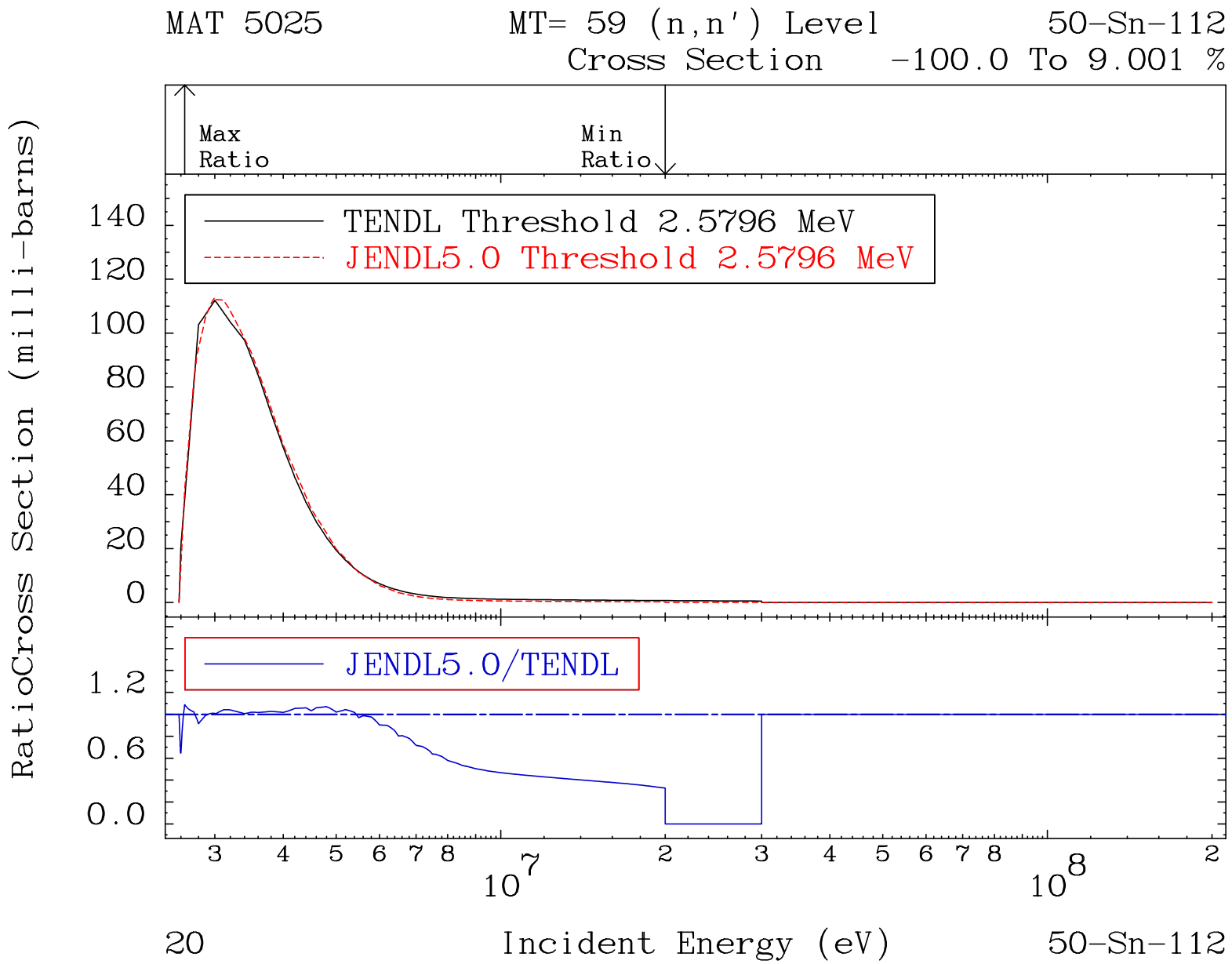

MAT 5025
MT= 54 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 18.89 %
Max
Ratio
TENDL Threshold 2.2676 MeV
JENDL5.0 Threshold 2.2679 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
50-Sn-112

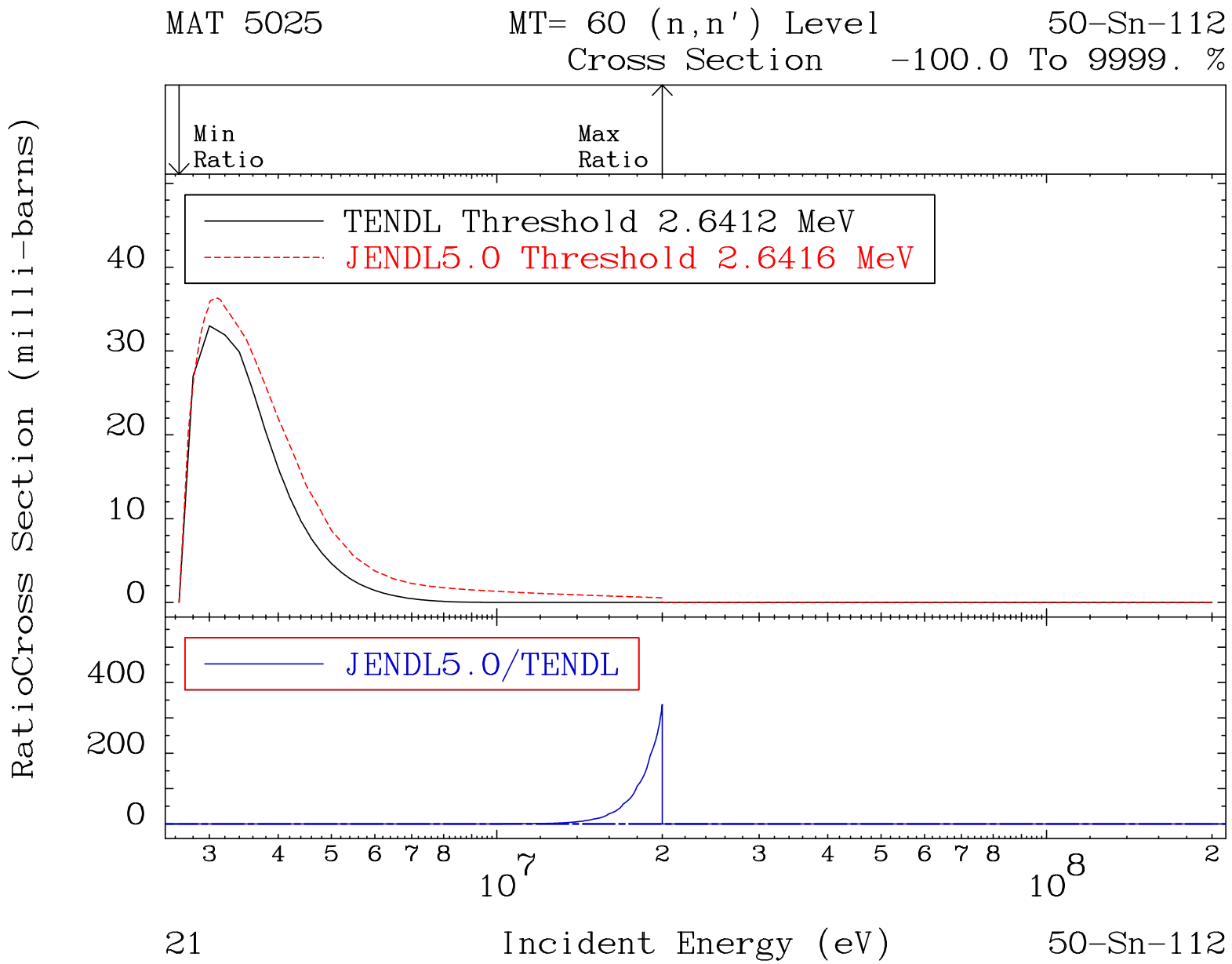

MAT 5025
MT= 55 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 69.91 %
Min Ratio
Max Ratio
TENDL Threshold 2.3754 MeV
JENDL5.0 Threshold 2.3758 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
50-Sn-112

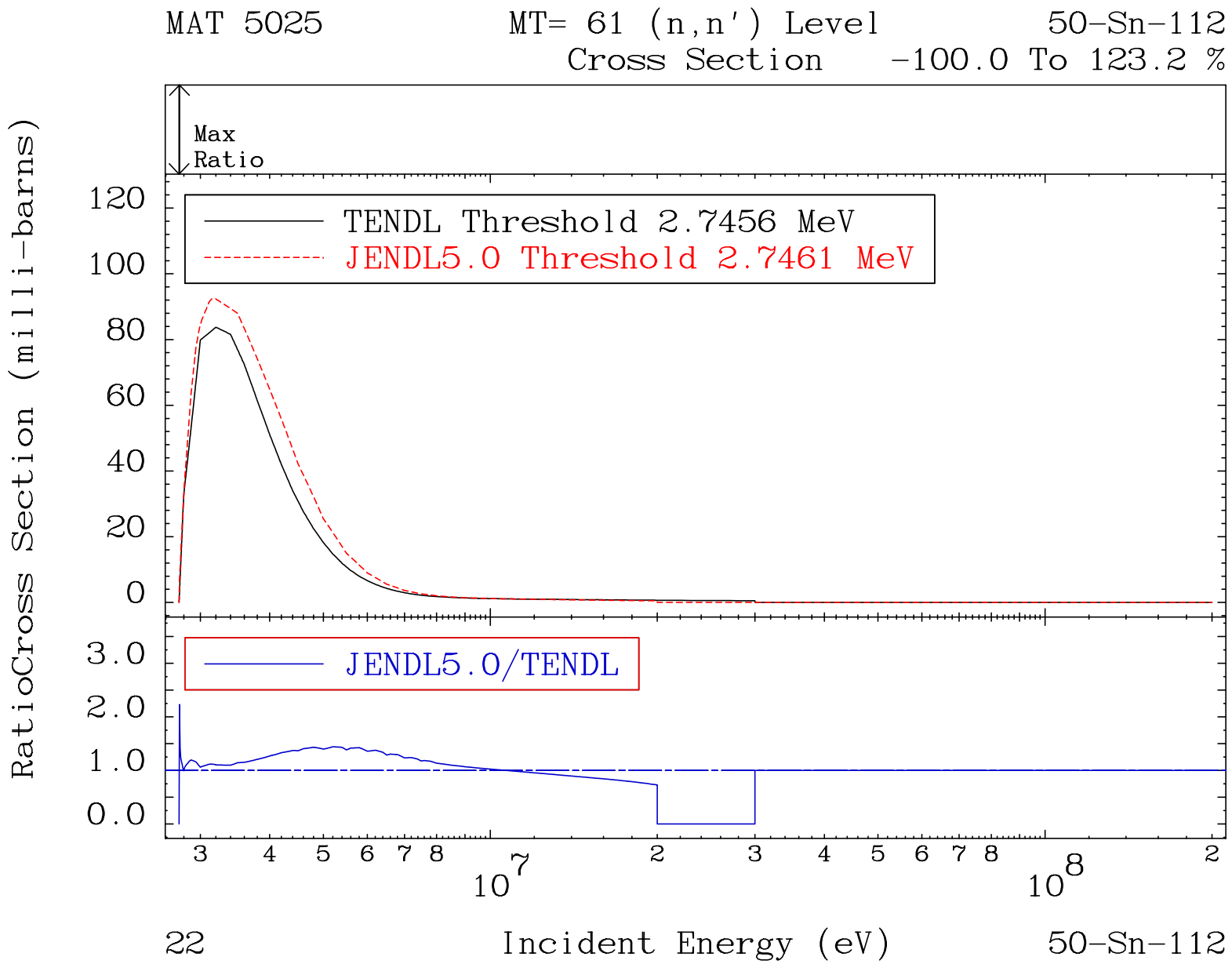

MAT 5025
MT= 56 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 384.9 %
Max
Ratio
TENDL Threshold 2.4985 MeV
JENDL5.0 Threshold 2.4985 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
4
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
50-Sn-112

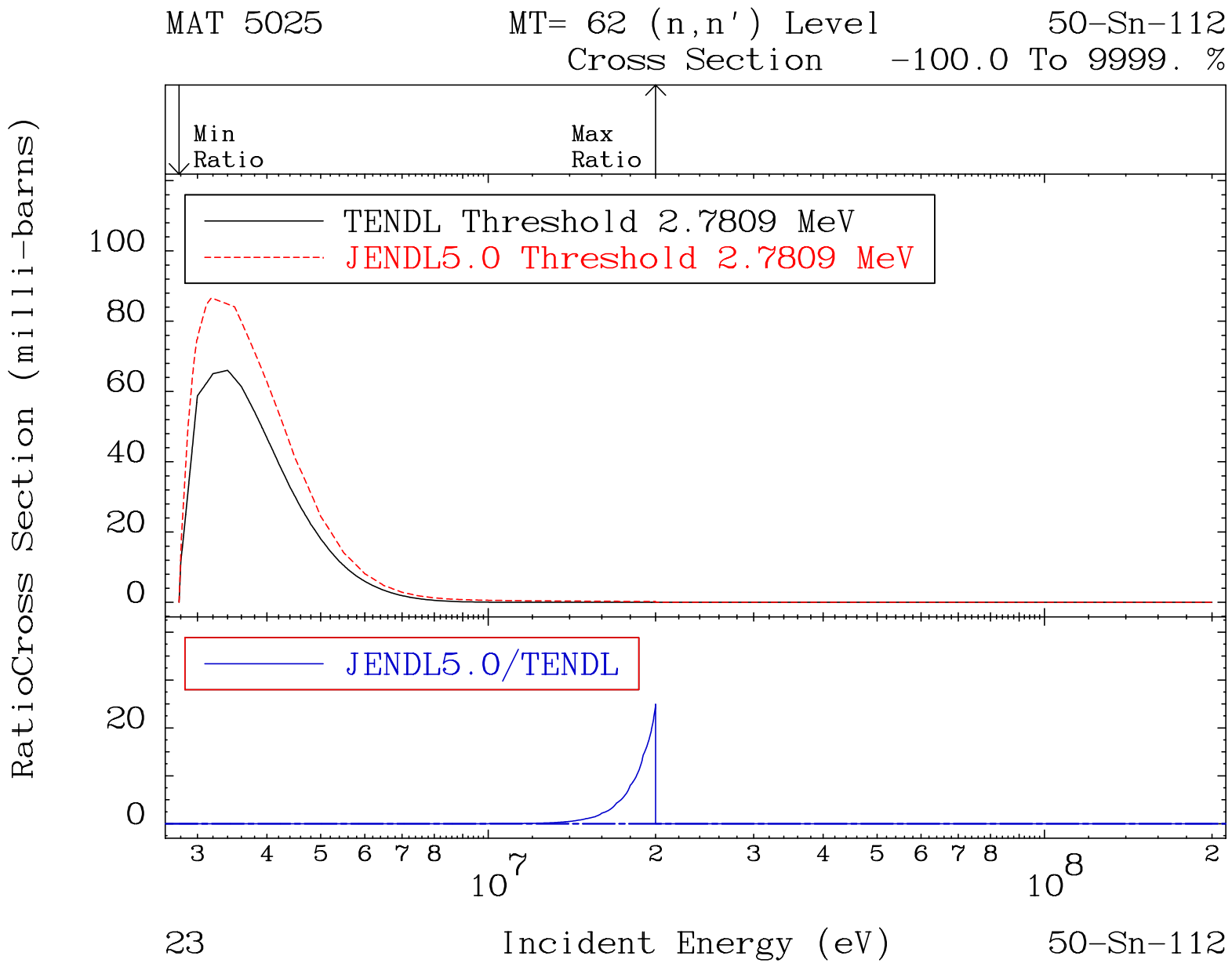

MAT 5025
MT= 57 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 28.56 %
Min Ratio
Max Ratio
TENDL Threshold 2.5434 MeV
JENDL5.0 Threshold 2.5438 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
50-Sn-112

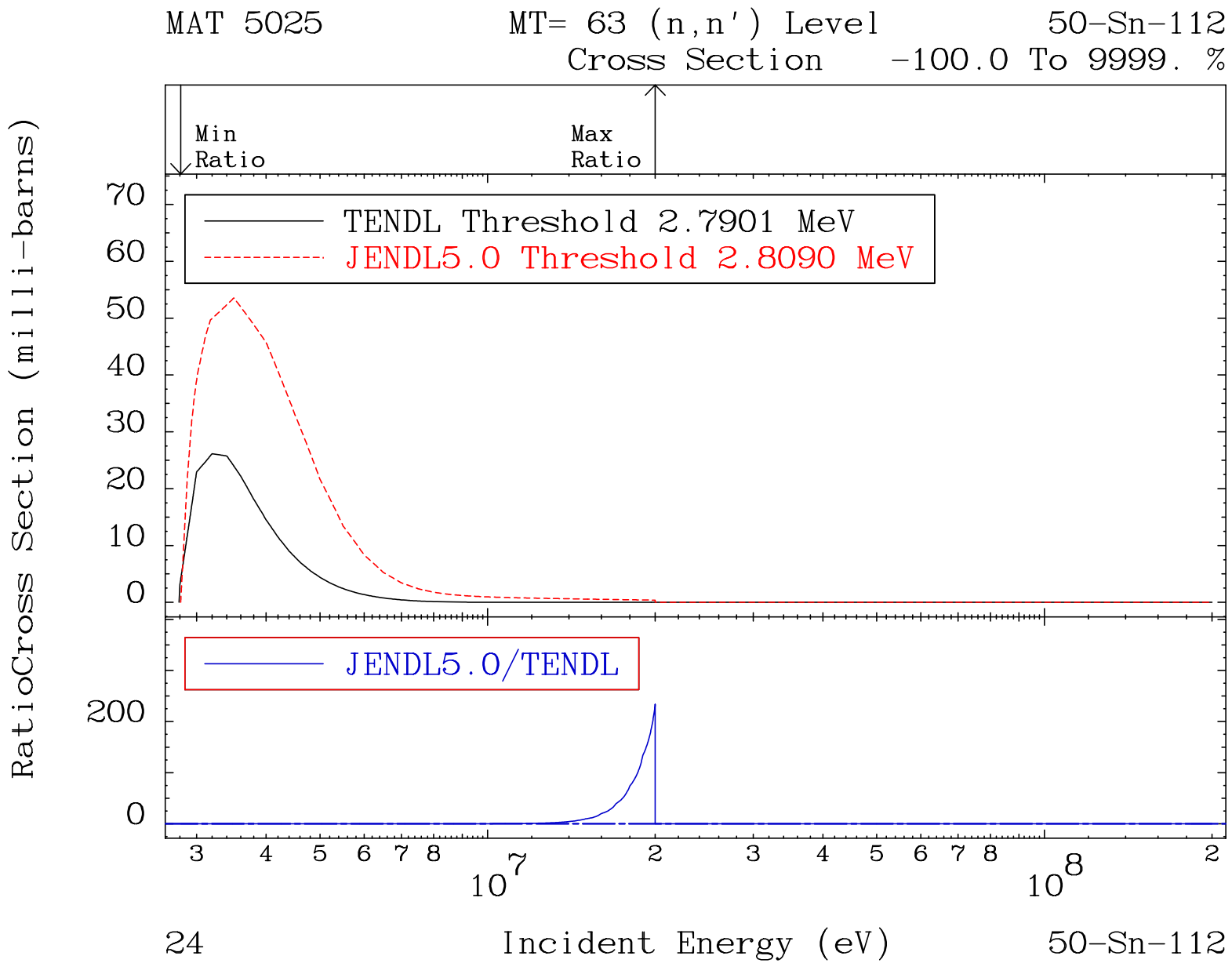

MAT 5025
MT= 58 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 17.79 %
Min Ratio
Max Ratio
TENDL Threshold 2.5722 MeV
JENDL5.0 Threshold 2.5722 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
50-Sn-112

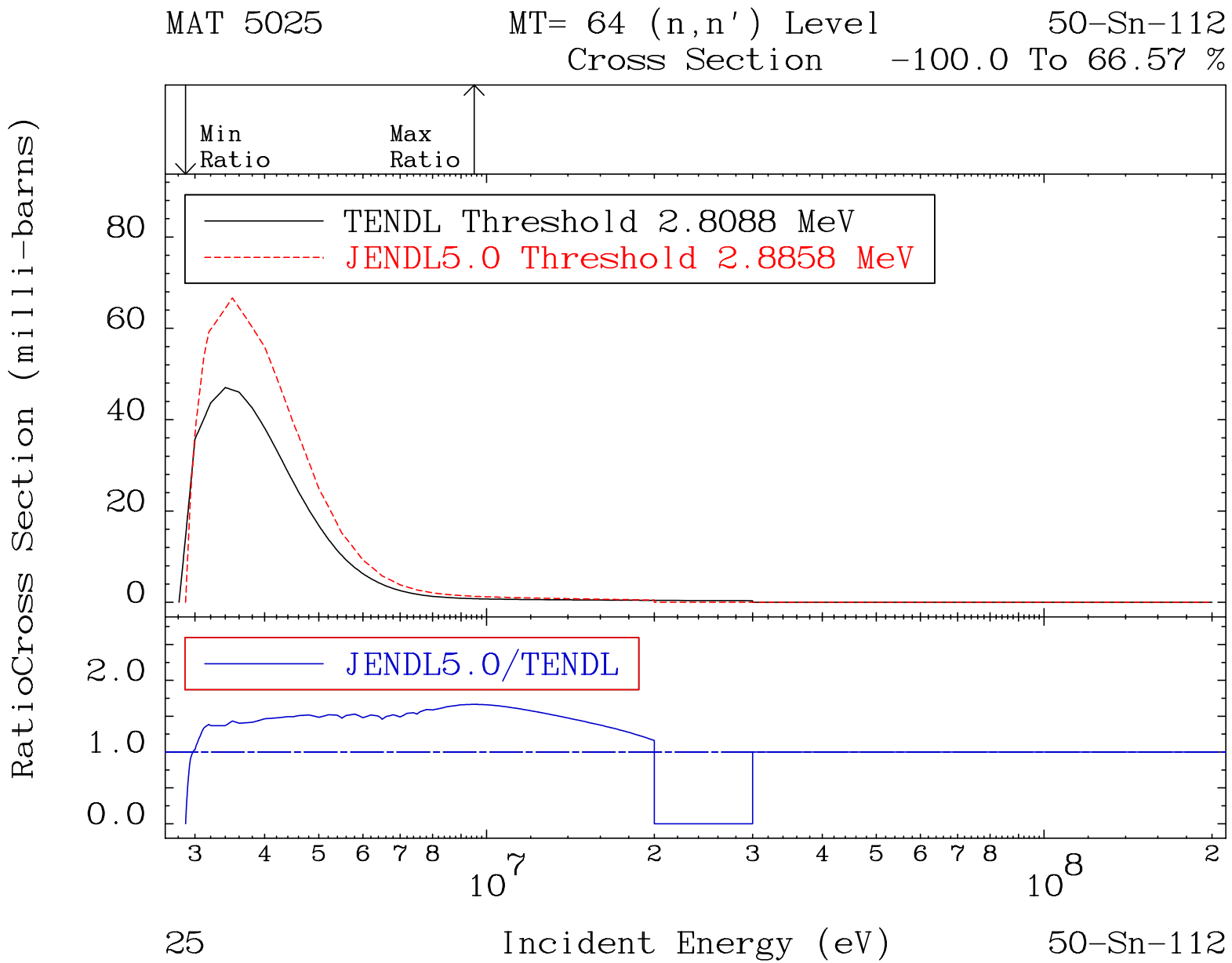

MAT 5025
MT= 59 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 9.001 %
Max Ratio
Min Ratio
TENDL Threshold 2.5796 MeV
JENDL5.0 Threshold 2.5796 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
20
50-Sn-112

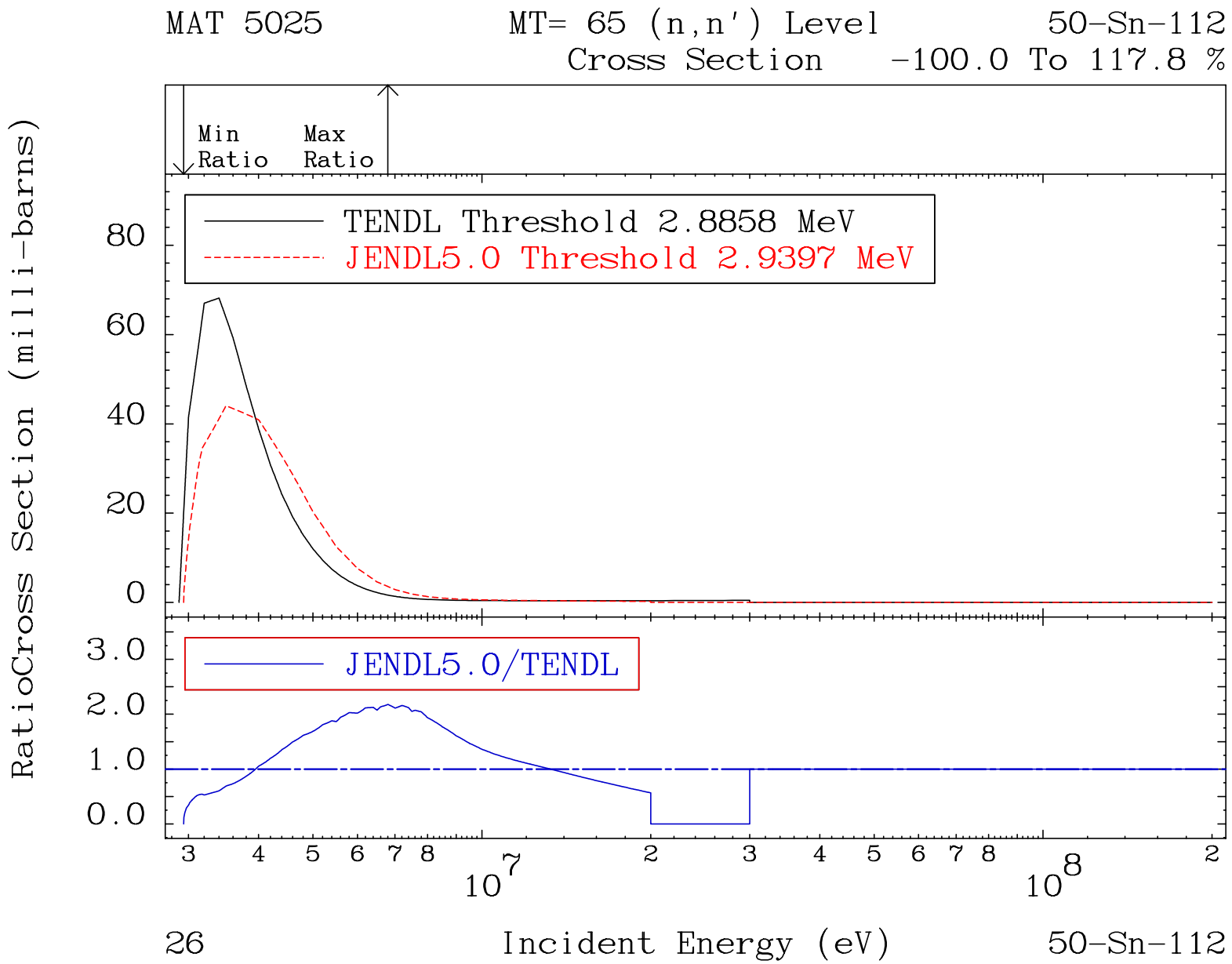

MAT 5025
MT= 60 (n,n') Level
50-Sn-112
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6412 MeV
JENDL5.0 Threshold 2.6416 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
400
200
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
50-Sn-112

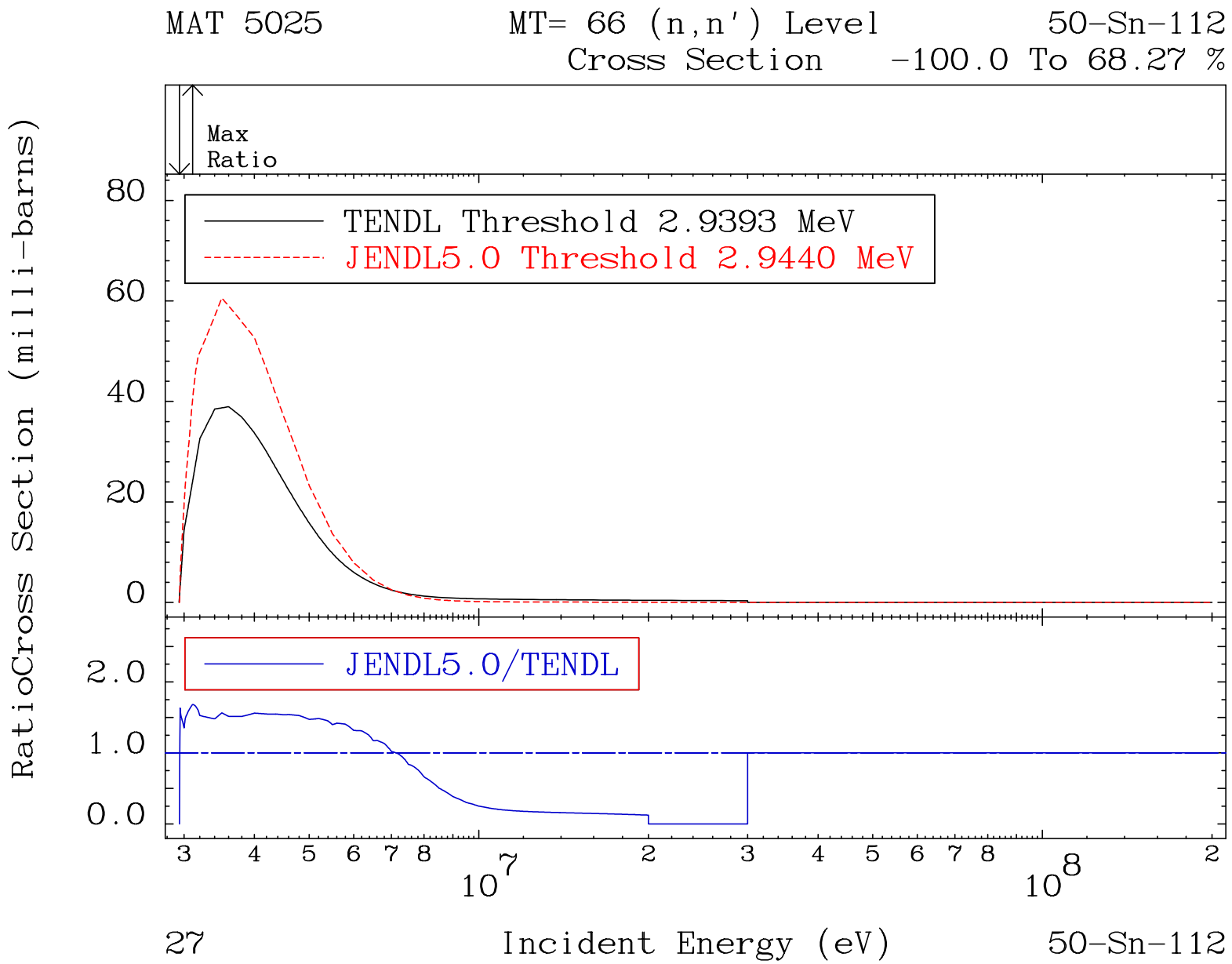

MAT 5025
MT= 61 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 123.2 %
Max
Ratio
TENDL Threshold 2.7456 MeV
JENDL5.0 Threshold 2.7461 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
50-Sn-112

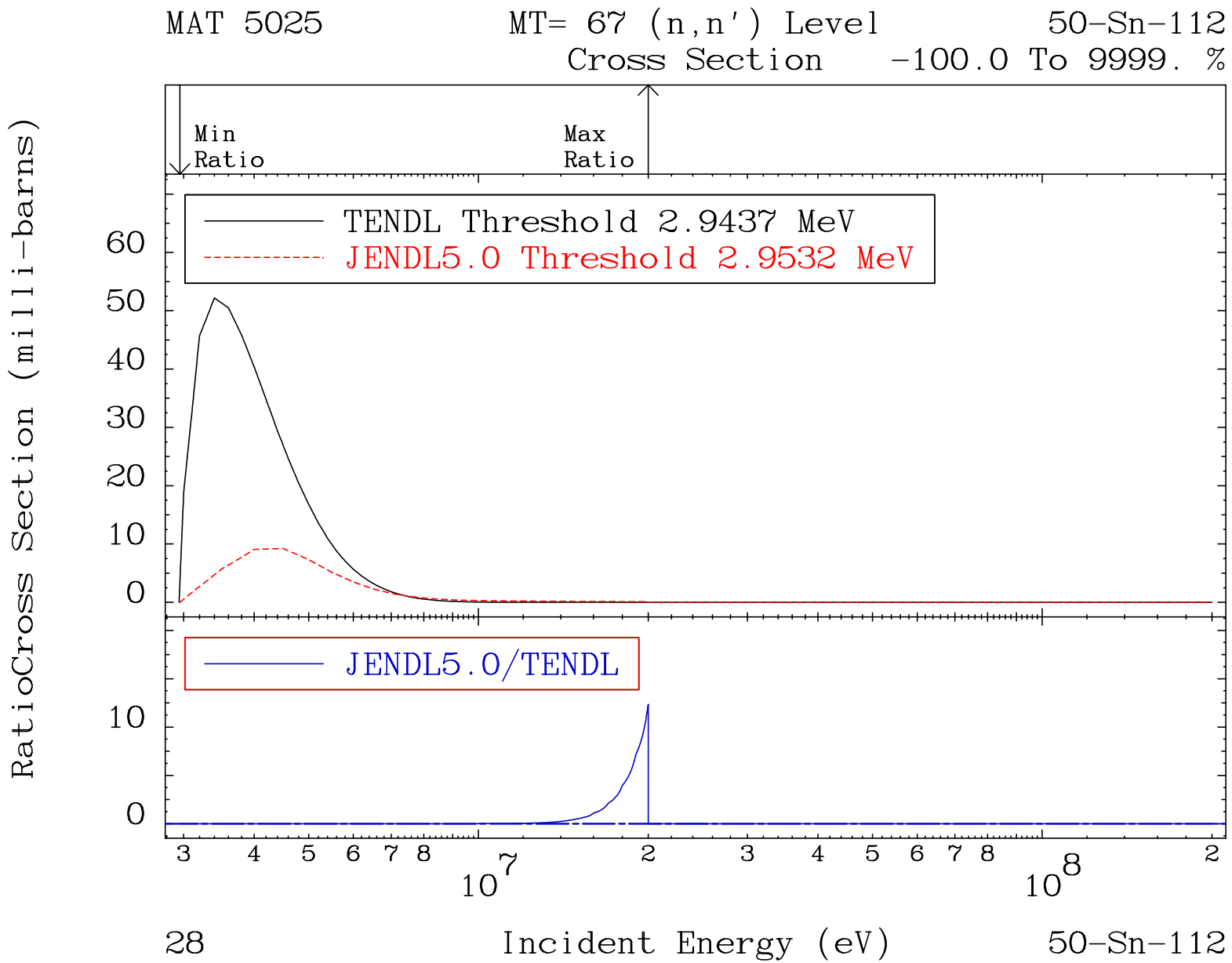

MAT 5025
MT= 62 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.7809 MeV
JENDL5.0 Threshold 2.7809 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
20
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
50-Sn-112

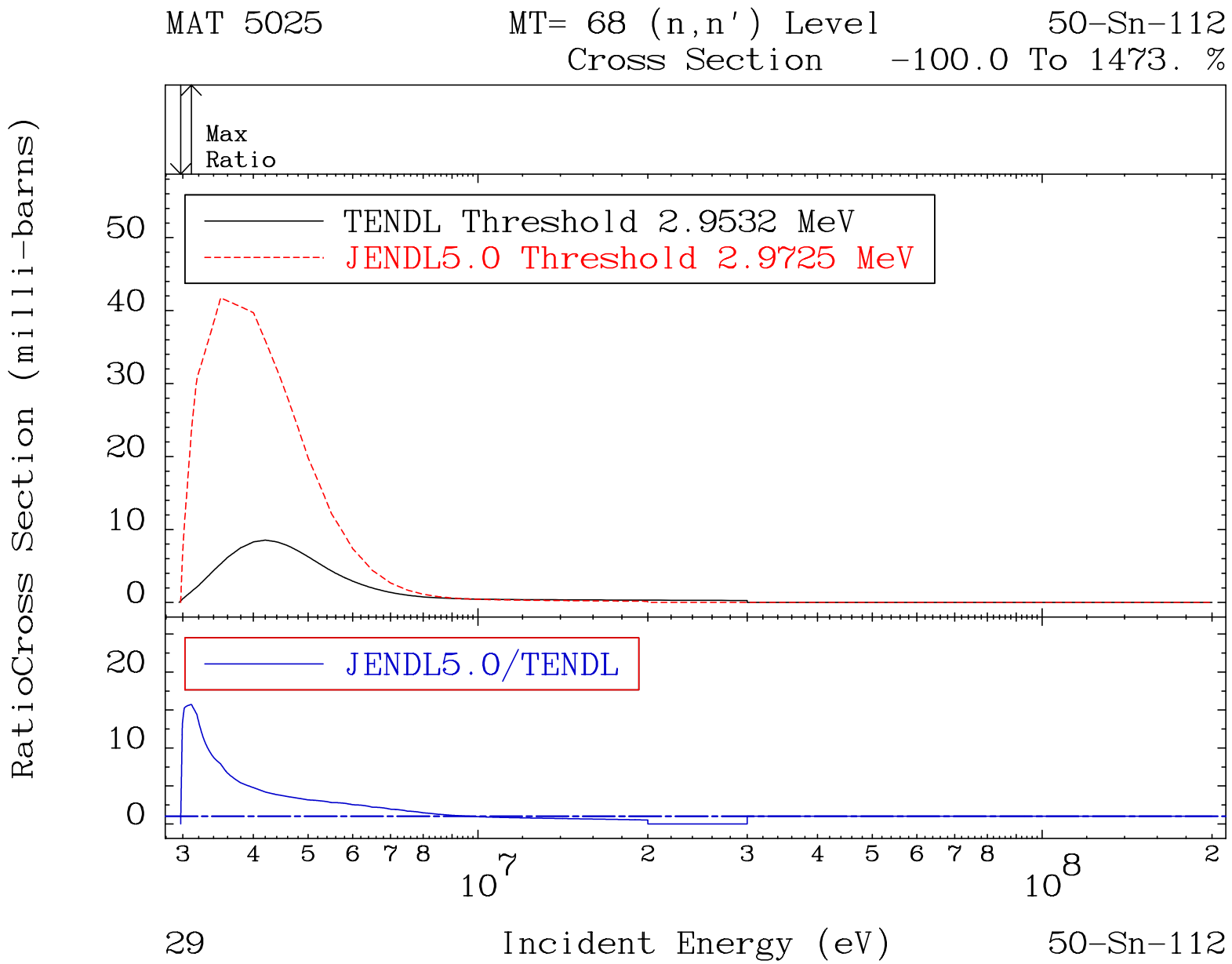

MAT 5025
MT= 63 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.7901 MeV
JENDL5.0 Threshold 2.8090 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
200
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
50-Sn-112

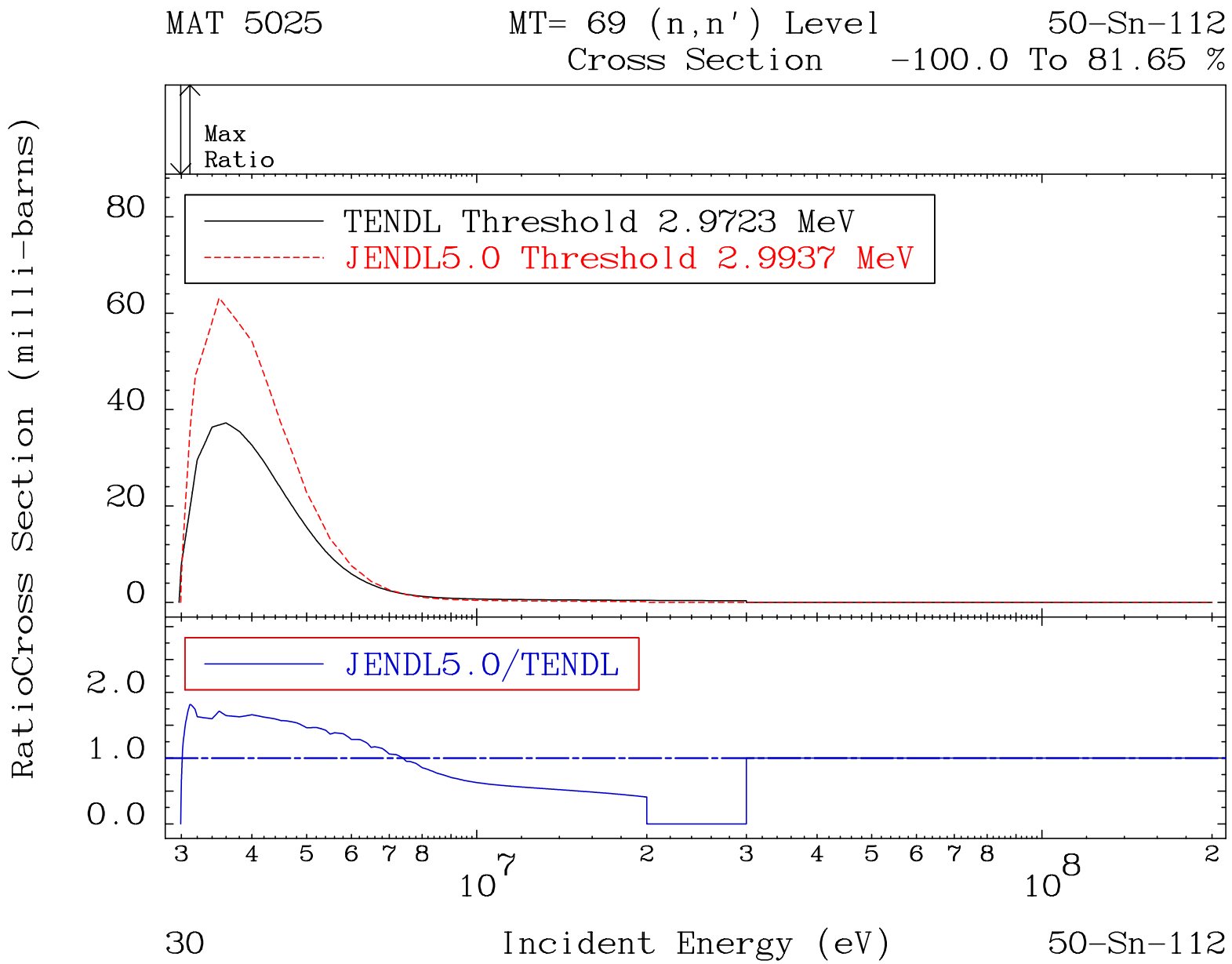

MAT 5025
MT= 64 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 66.57 %
Min Ratio
Max Ratio
TENDL Threshold 2.8088 MeV
JENDL5.0 Threshold 2.8858 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
50-Sn-112

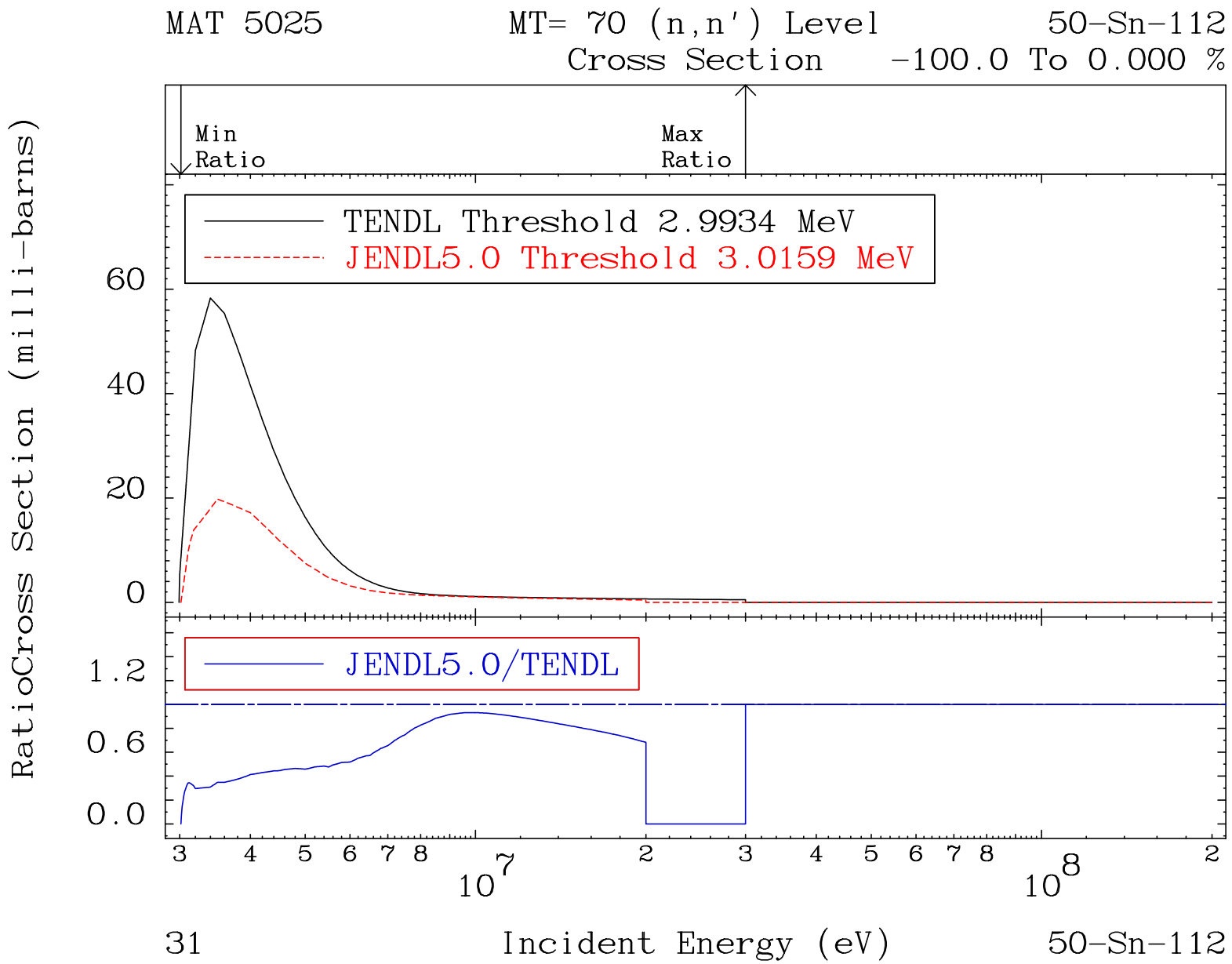

MAT 5025
MT= 65 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 117.8 %
Min Ratio
Max Ratio
TENDL Threshold 2.8858 MeV
JENDL5.0 Threshold 2.9397 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
50-Sn-112

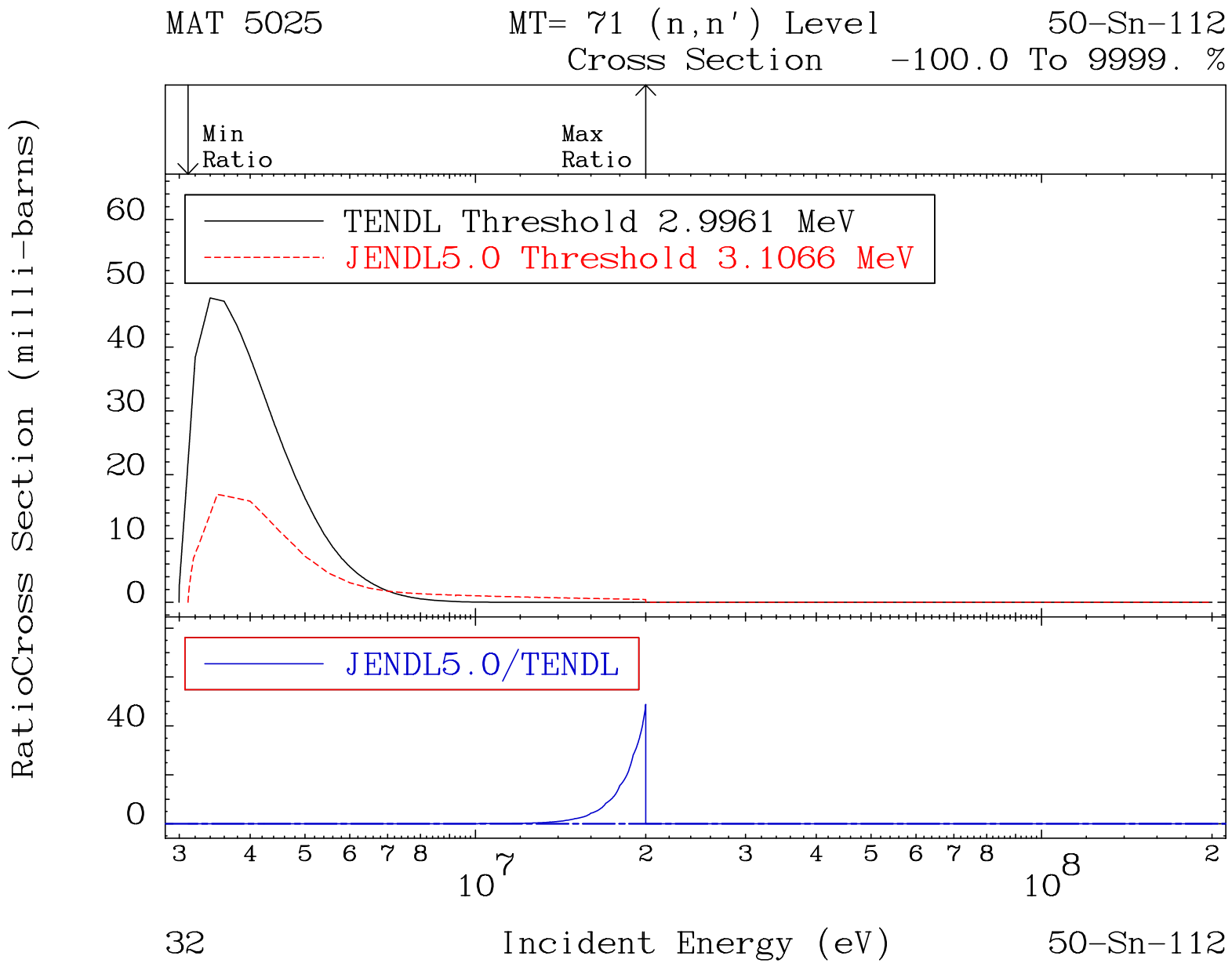

MAT 5025
MT= 66 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 68.27 %
Max
Ratio
TENDL Threshold 2.9393 MeV
JENDL5.0 Threshold 2.9440 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
50-Sn-112

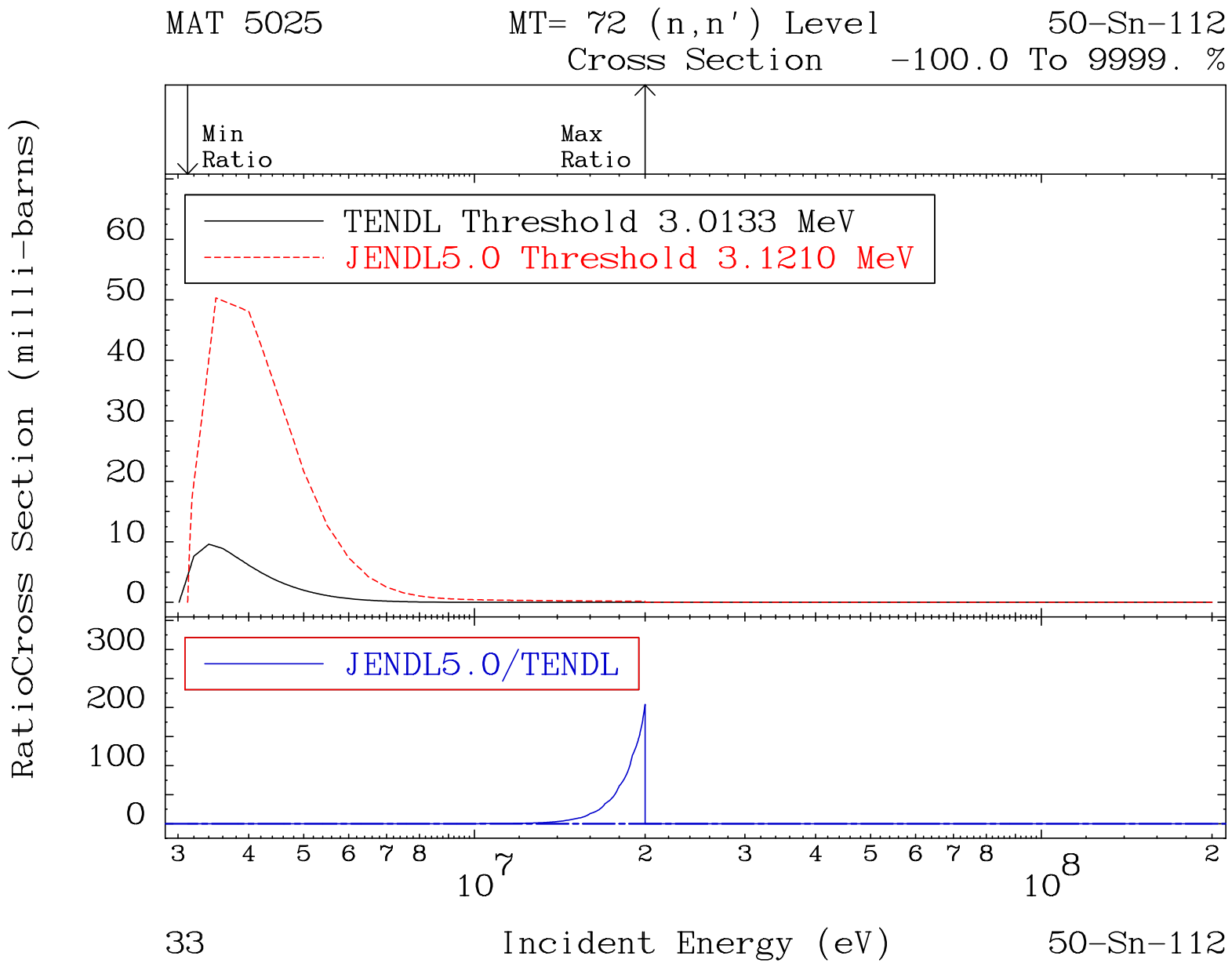

MAT 5025
MT= 67 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.9437 MeV
JENDL5.0 Threshold 2.9532 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
10
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
50-Sn-112

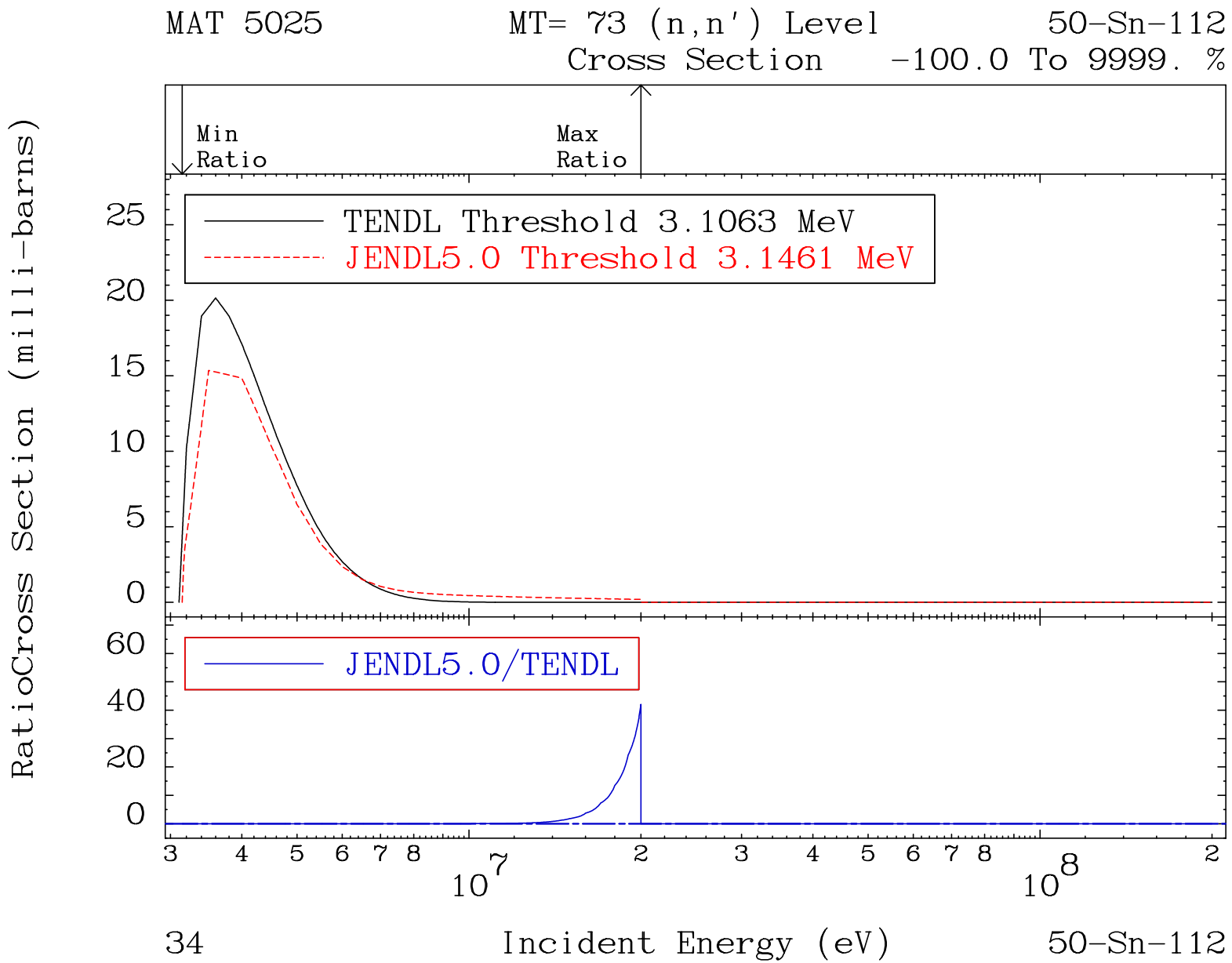

MAT 5025
MT= 68 (n,n') Level
50-Sn-112
Cross Section -100.0 To 1473. %
Max
Ratio
TENDL Threshold 2.9532 MeV
JENDL5.0 Threshold 2.9725 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
20
10
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
50-Sn-112

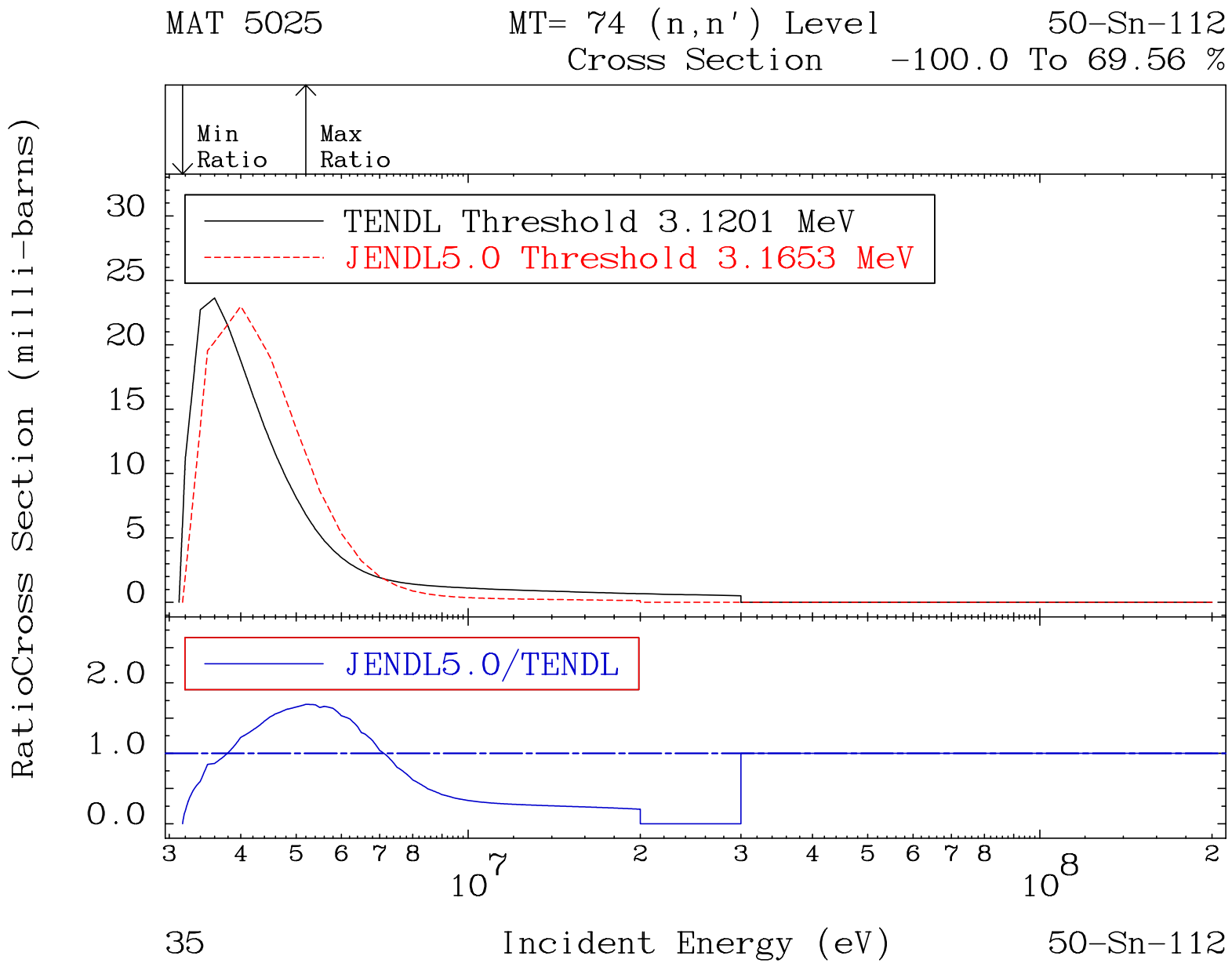

MAT 5025
MT= 69 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 81.65 %
Max
Ratio
TENDL Threshold 2.9723 MeV
JENDL5.0 Threshold 2.9937 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
50-Sn-112

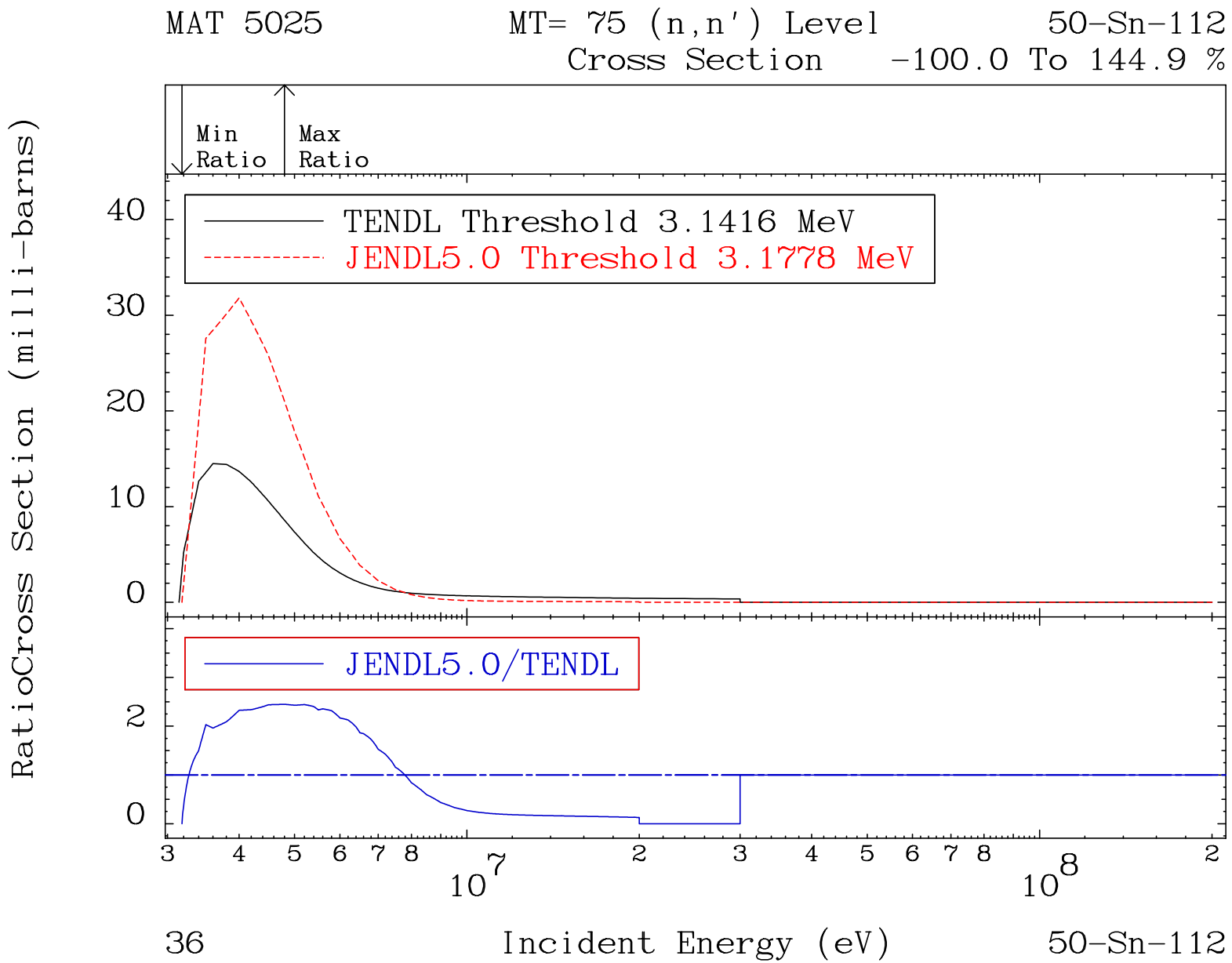

MAT 5025
MT= 70 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.9934 MeV
JENDL5.0 Threshold 3.0159 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
50-Sn-112

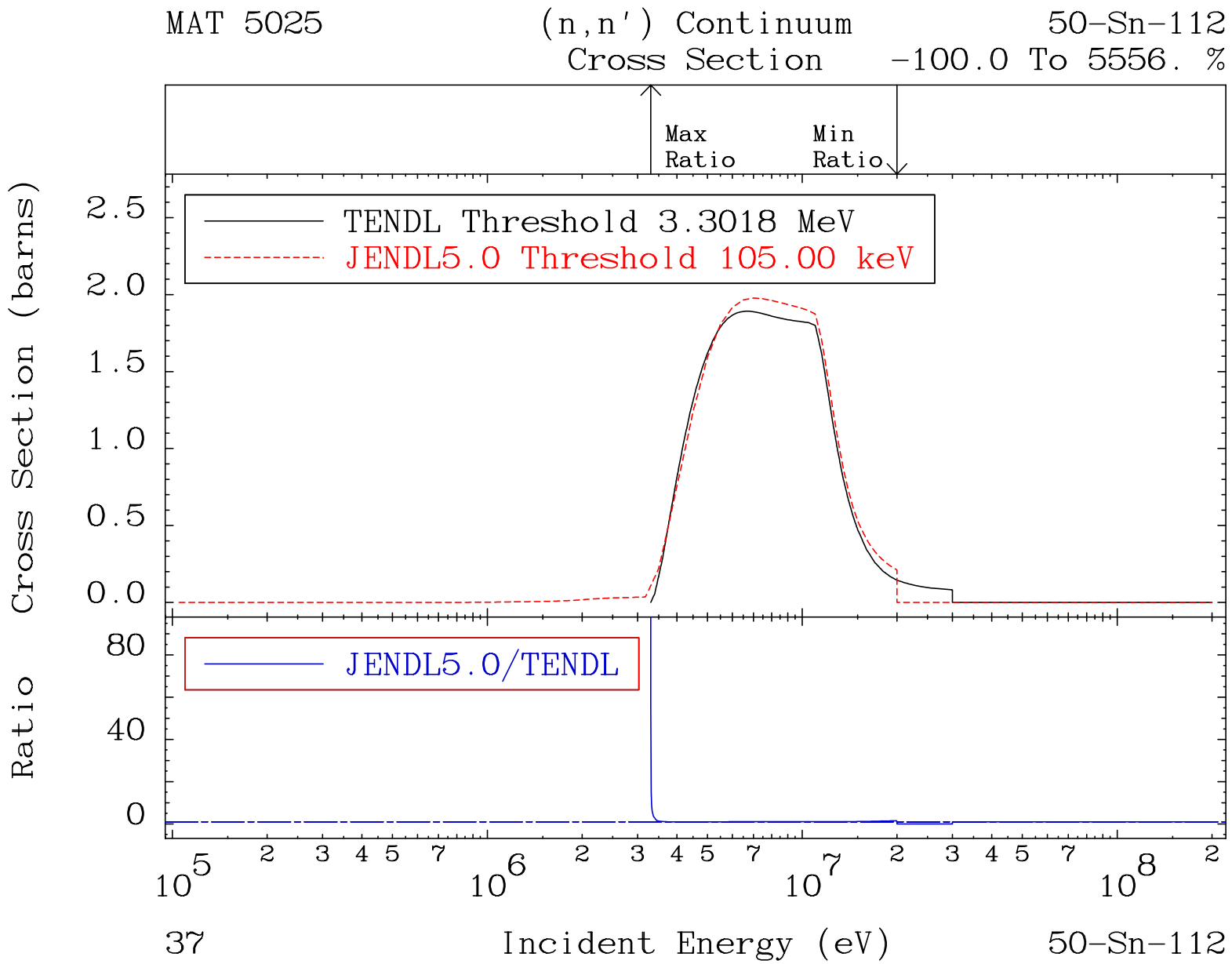

MAT 5025
MT= 71 (n,n') Level
50-Sn-112
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.9961 MeV
JENDL5.0 Threshold 3.1066 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
40
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
50-Sn-112

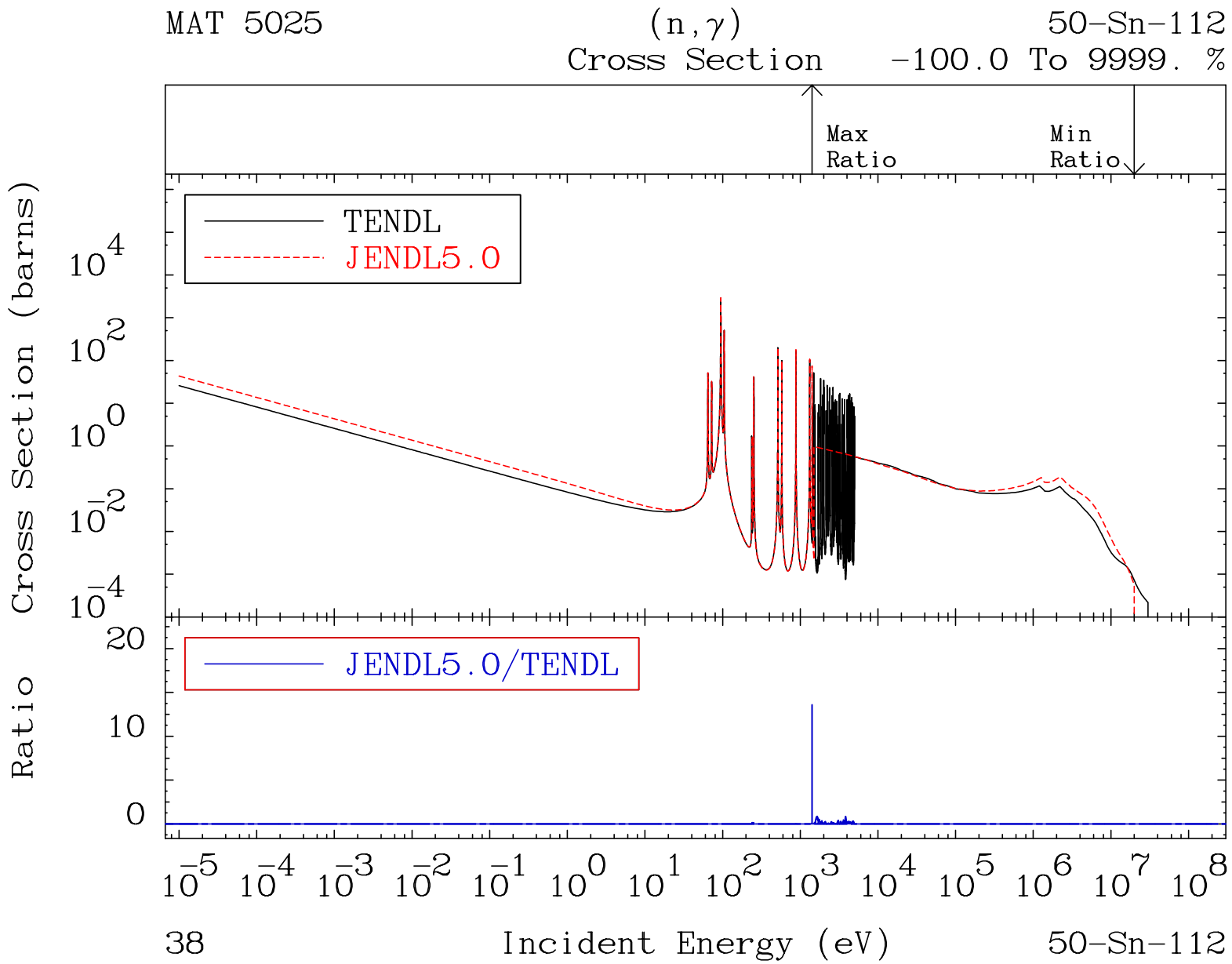

MAT 5025
MT= 72 (n,n') Level
50-Sn-112
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.0133 MeV
JENDL5.0 Threshold 3.1210 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
300
200
100
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
33
Incident Energy (eV)
50-Sn-112

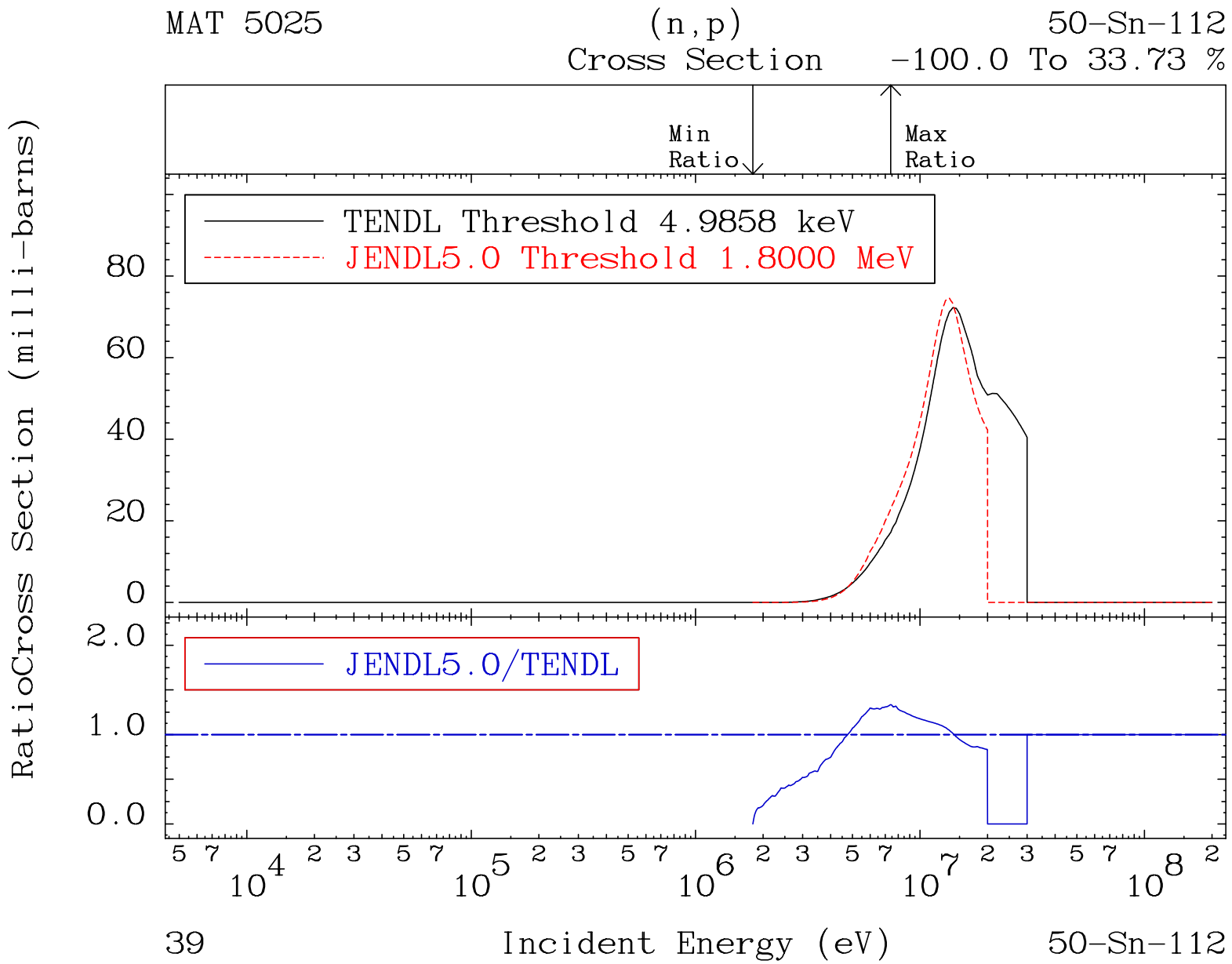

MAT 5025
MT= 73 (n,n') Level
50-Sn-112
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.1063 MeV
JENDL5.0 Threshold 3.1461 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
34
50-Sn-112

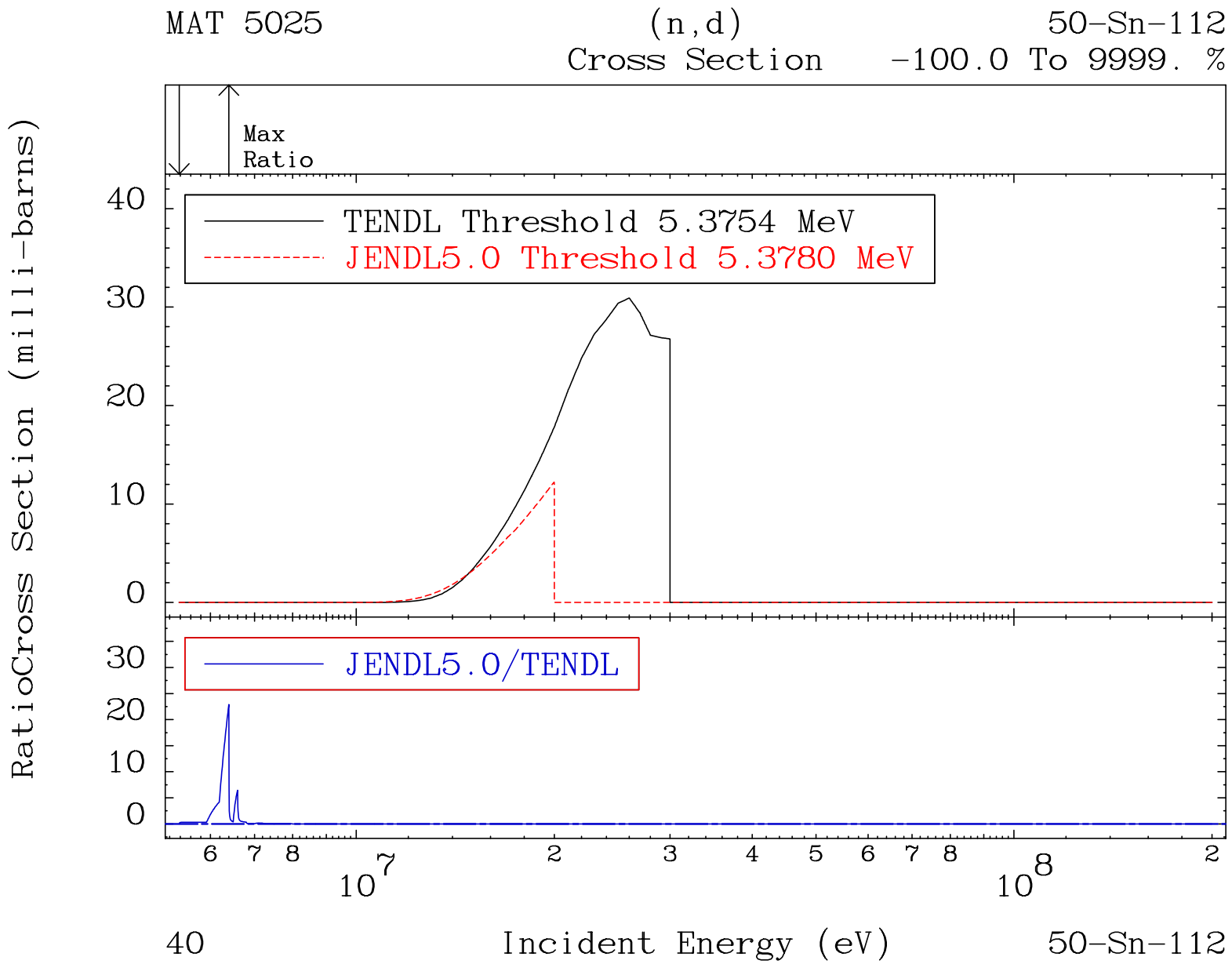

MAT 5025
MT= 74 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 69.56 %
Min Ratio
Max Ratio
TENDL Threshold 3.1201 MeV
JENDL5.0 Threshold 3.1653 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
50-Sn-112

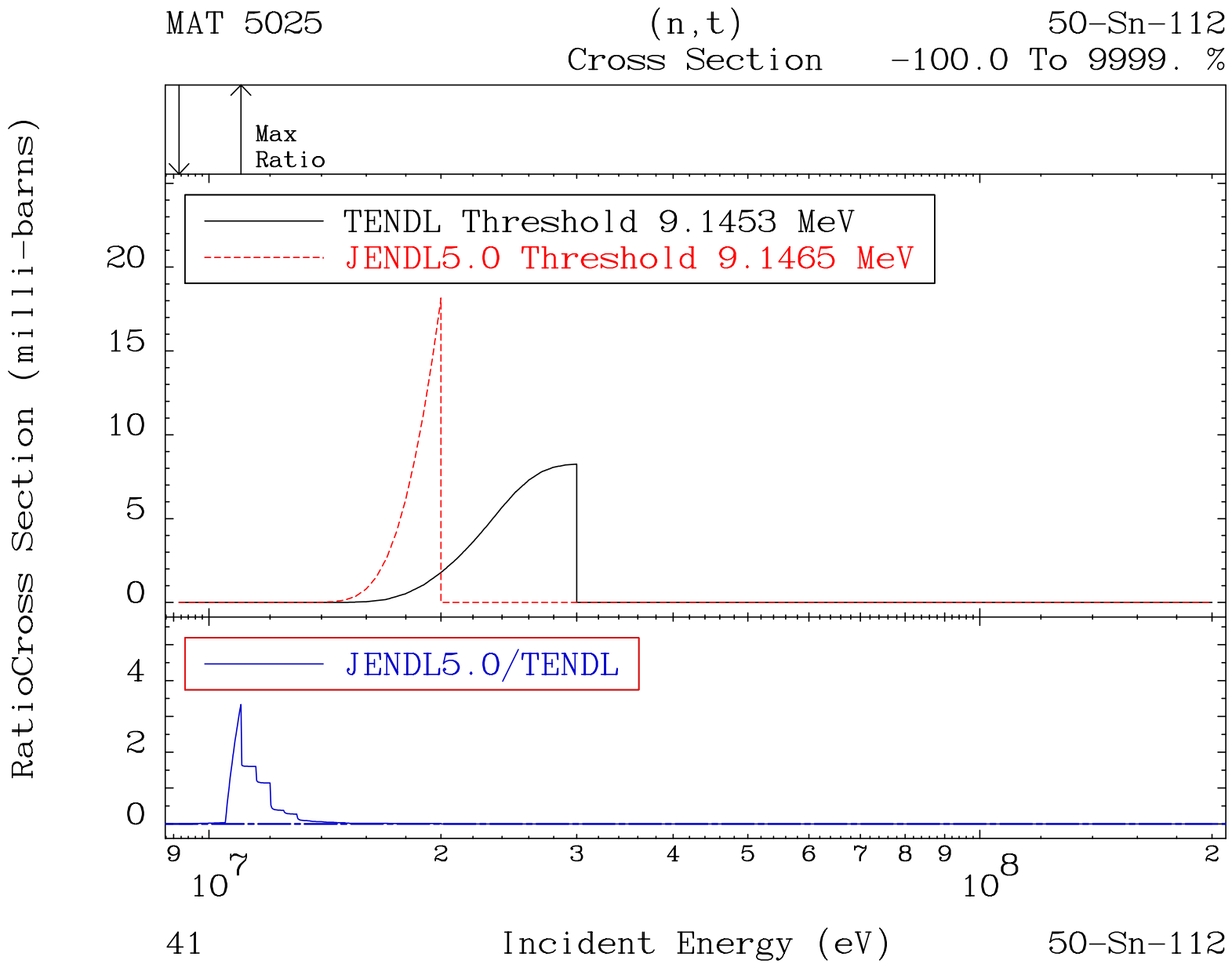

MAT 5025
MT= 75 (n,n') Level
50-Sn-112
Cross Section
-100.0 To 144.9 %
Min Ratio
Max Ratio
TENDL Threshold 3.1416 MeV
JENDL5.0 Threshold 3.1778 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
50-Sn-112

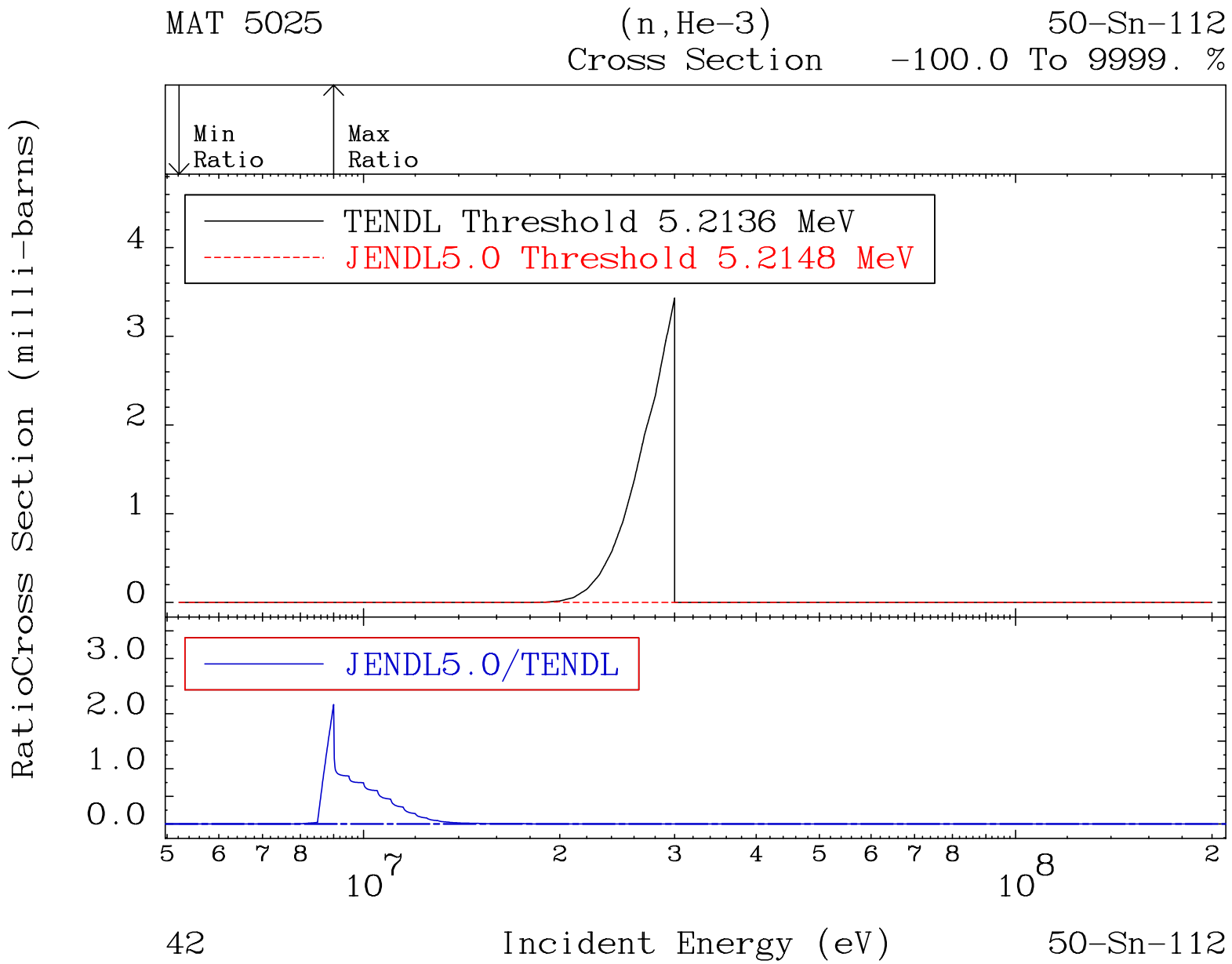

MAT 5025
(n,n') Continuum
Cross Section
50-Sn-112
-100.0 To 5556. %
Max
Ratio
Min
Ratio
TENDL Threshold 3.3018 MeV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
50-Sn-112

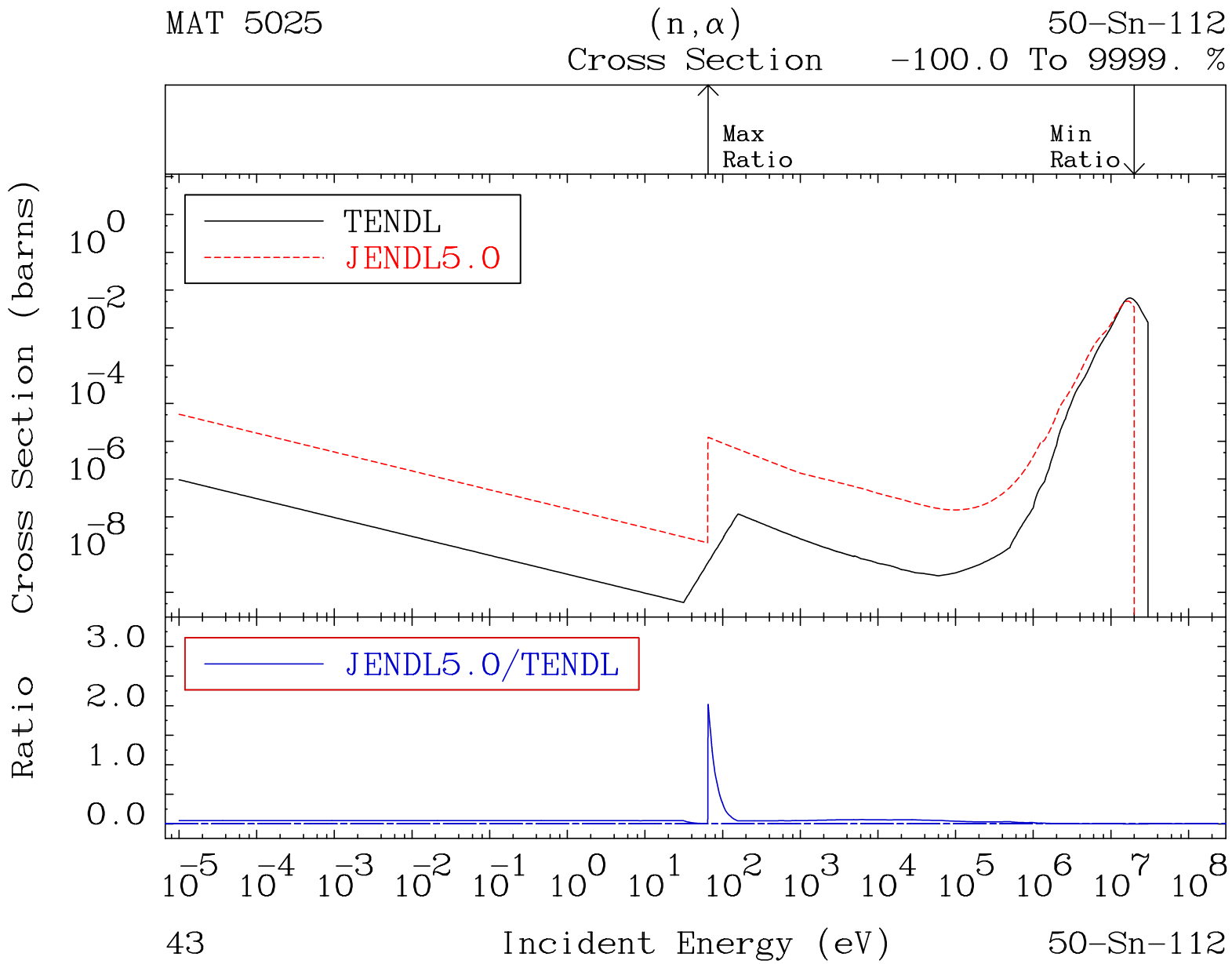

MAT 5025
(n,γ)
Cross Section
50-Sn-112
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
50-Sn-112

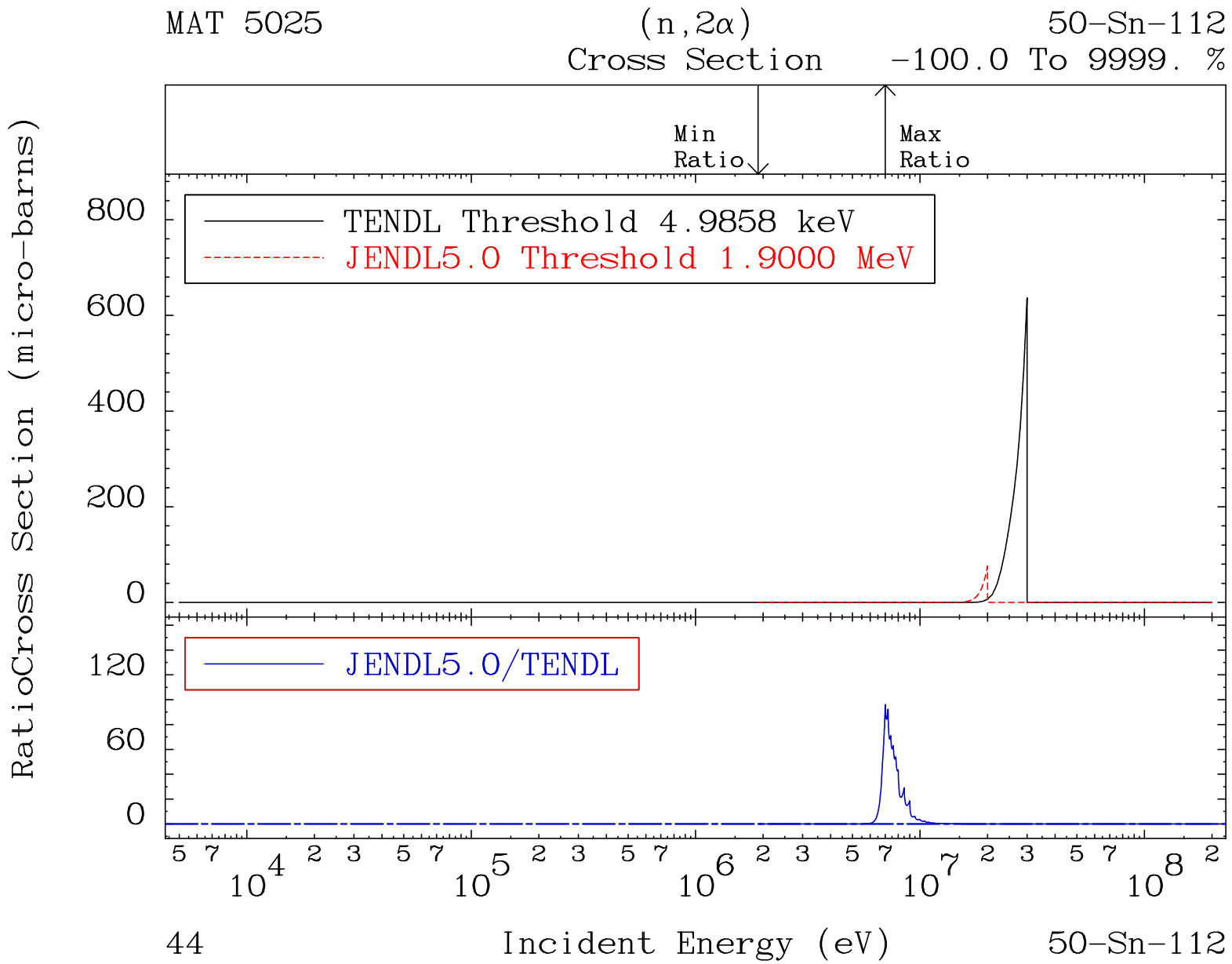

MAT 5025
(n,p)
Cross Section
50-Sn-112
-100.0 To 33.73 %
Min Ratio
Max Ratio
TENDL Threshold 4.9858 keV
JENDL5.0 Threshold 1.8000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
39
Incident Energy (eV)
50-Sn-112

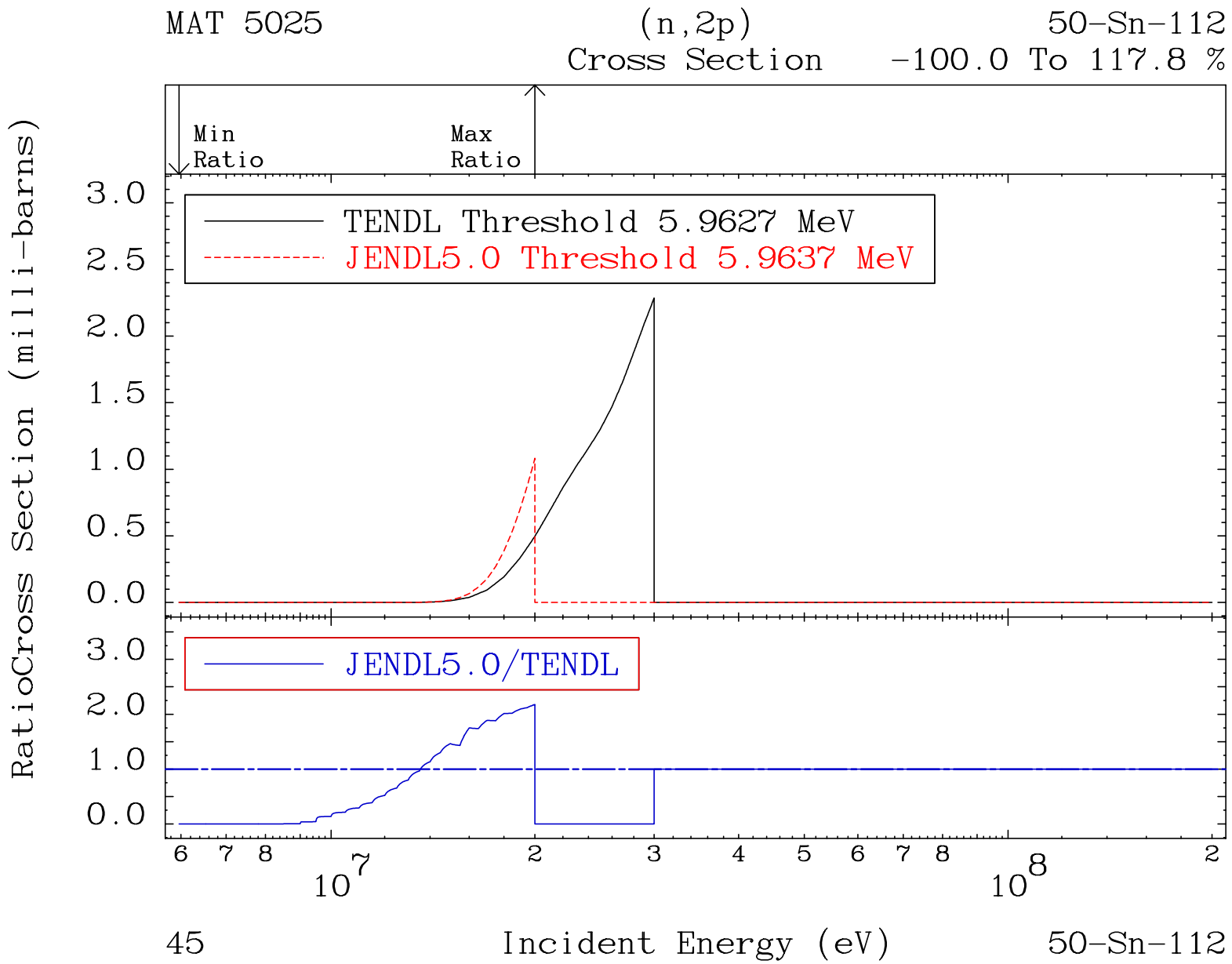

MAT 5025
(n,d)
50-Sn-112
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.3754 MeV
JENDL5.0 Threshold 5.3780 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
50-Sn-112

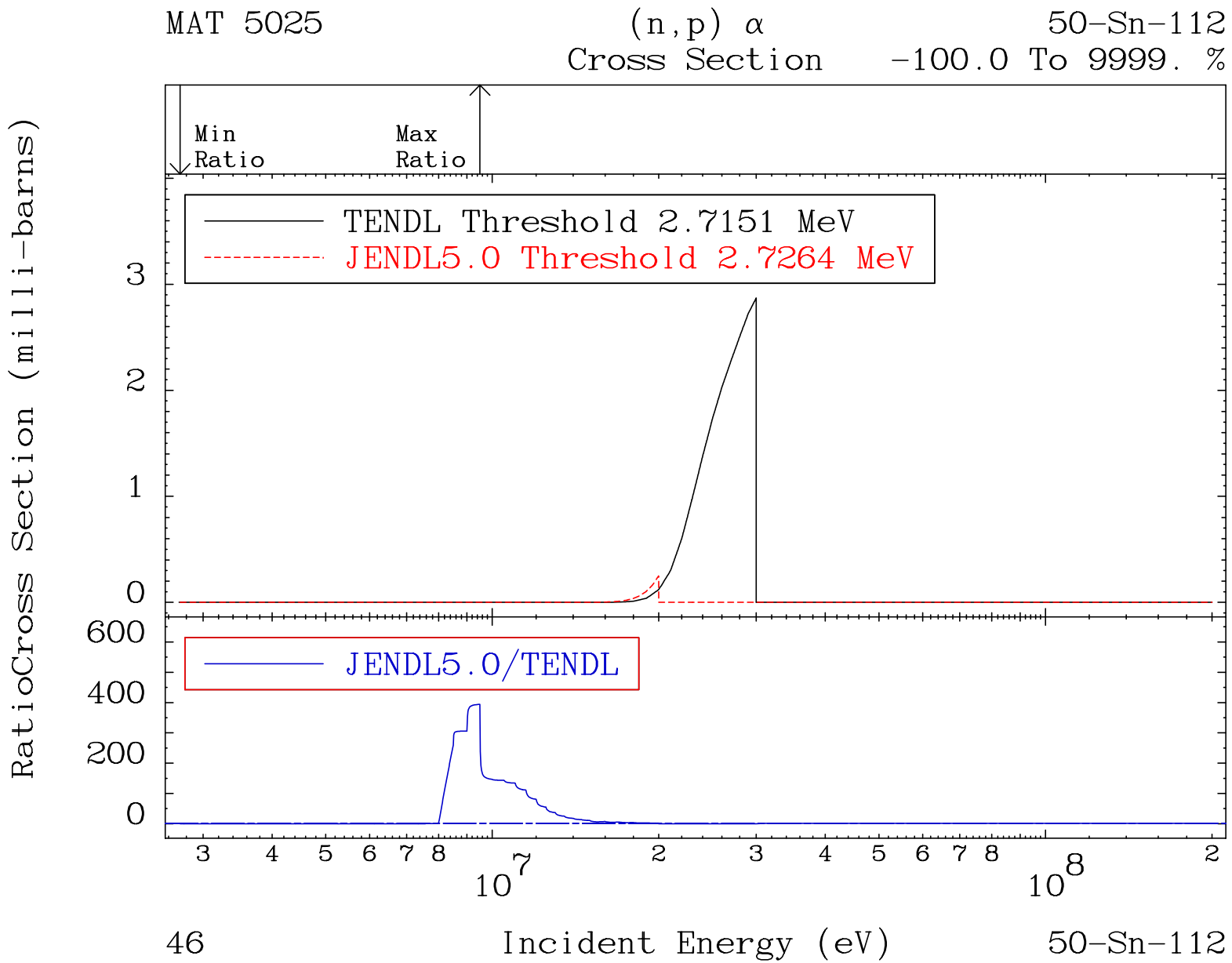

MAT 5025
(n,t)
Cross Section
50-Sn-112
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 9.1453 MeV
JENDL5.0 Threshold 9.1465 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
4
2
0
9
2
3
4
5
6
7
8
9
2
10^7
10^8
41
Incident Energy (eV)
50-Sn-112

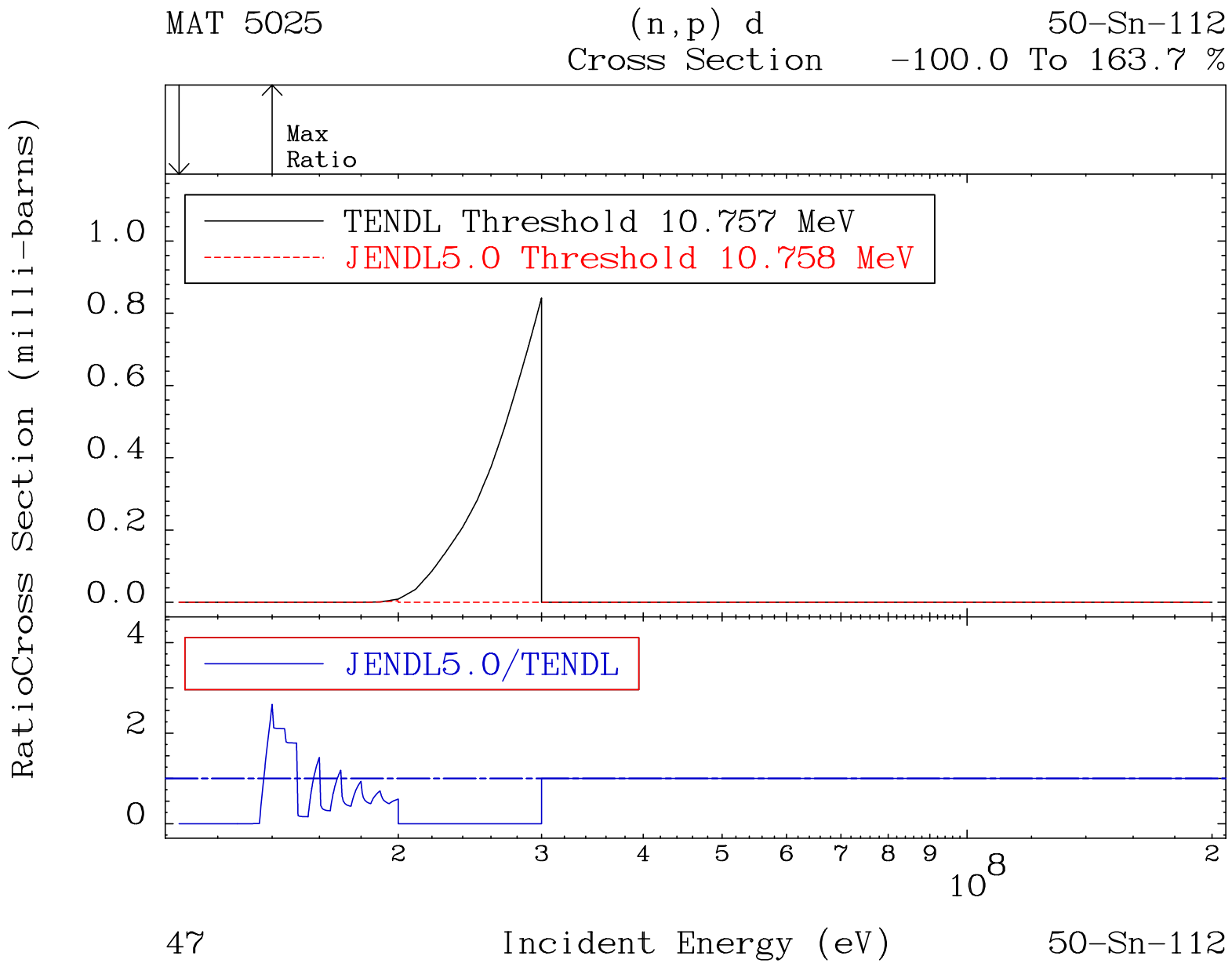

MAT 5025
(n,He-3)
Cross Section
50-Sn-112
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.2136 MeV
JENDL5.0 Threshold 5.2148 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
42
50-Sn-112

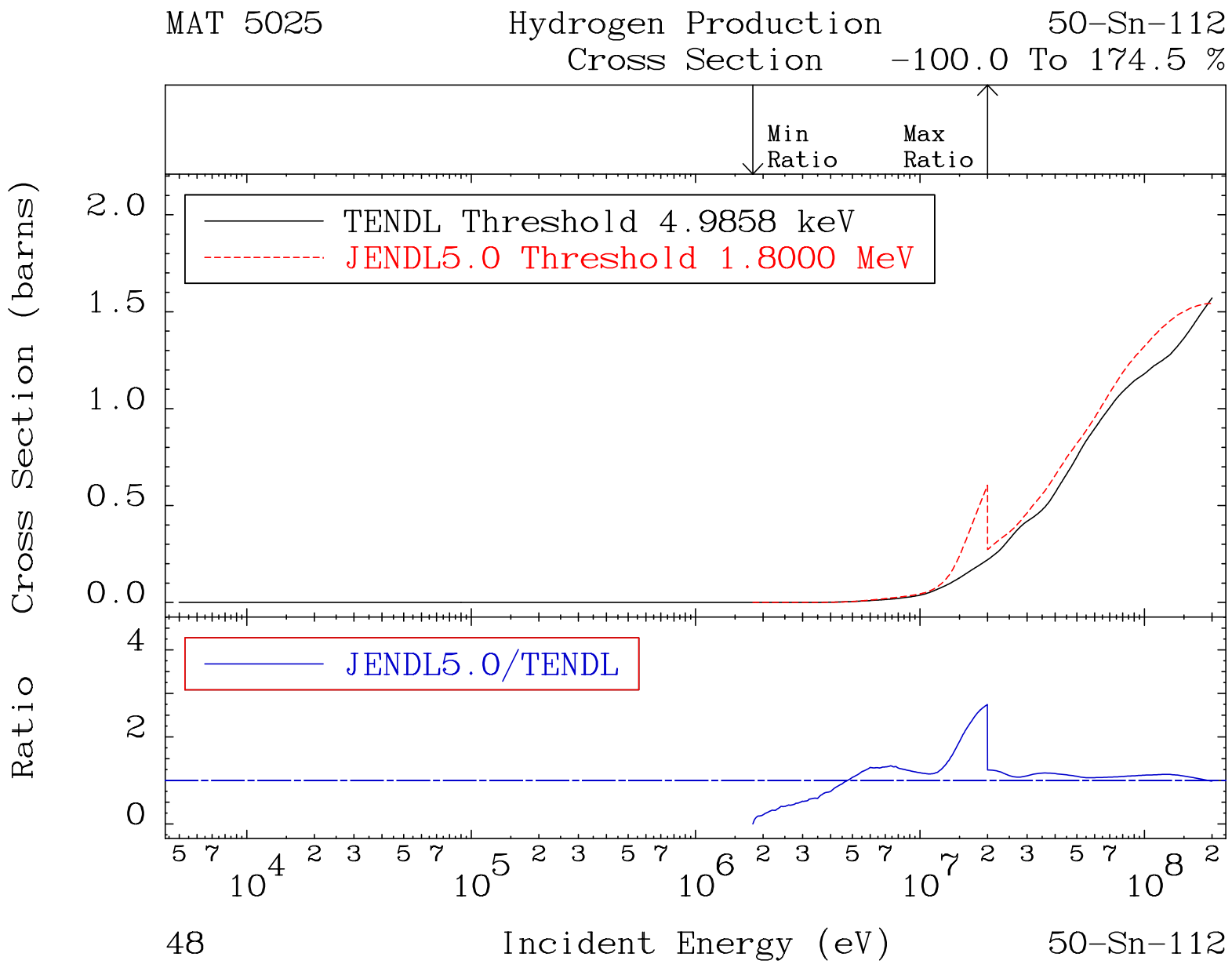

MAT 5025
(n,α)
Cross Section
50-Sn-112
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
43
50-Sn-112

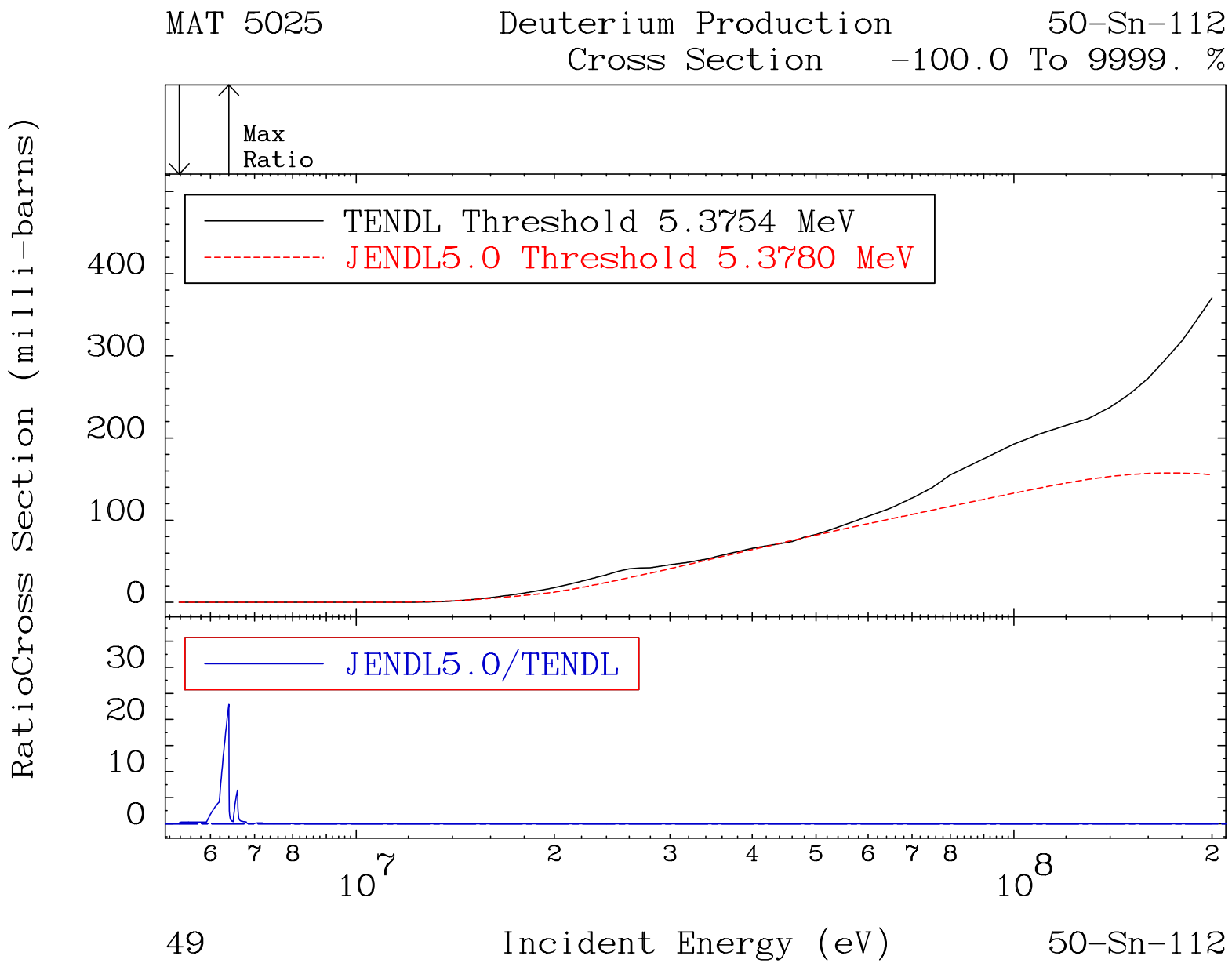

MAT 5025
(n,2α)
50-Sn-112
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.9858 keV
JENDL5.0 Threshold 1.9000 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
120
60
0
5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
44
Incident Energy (eV)
50-Sn-112

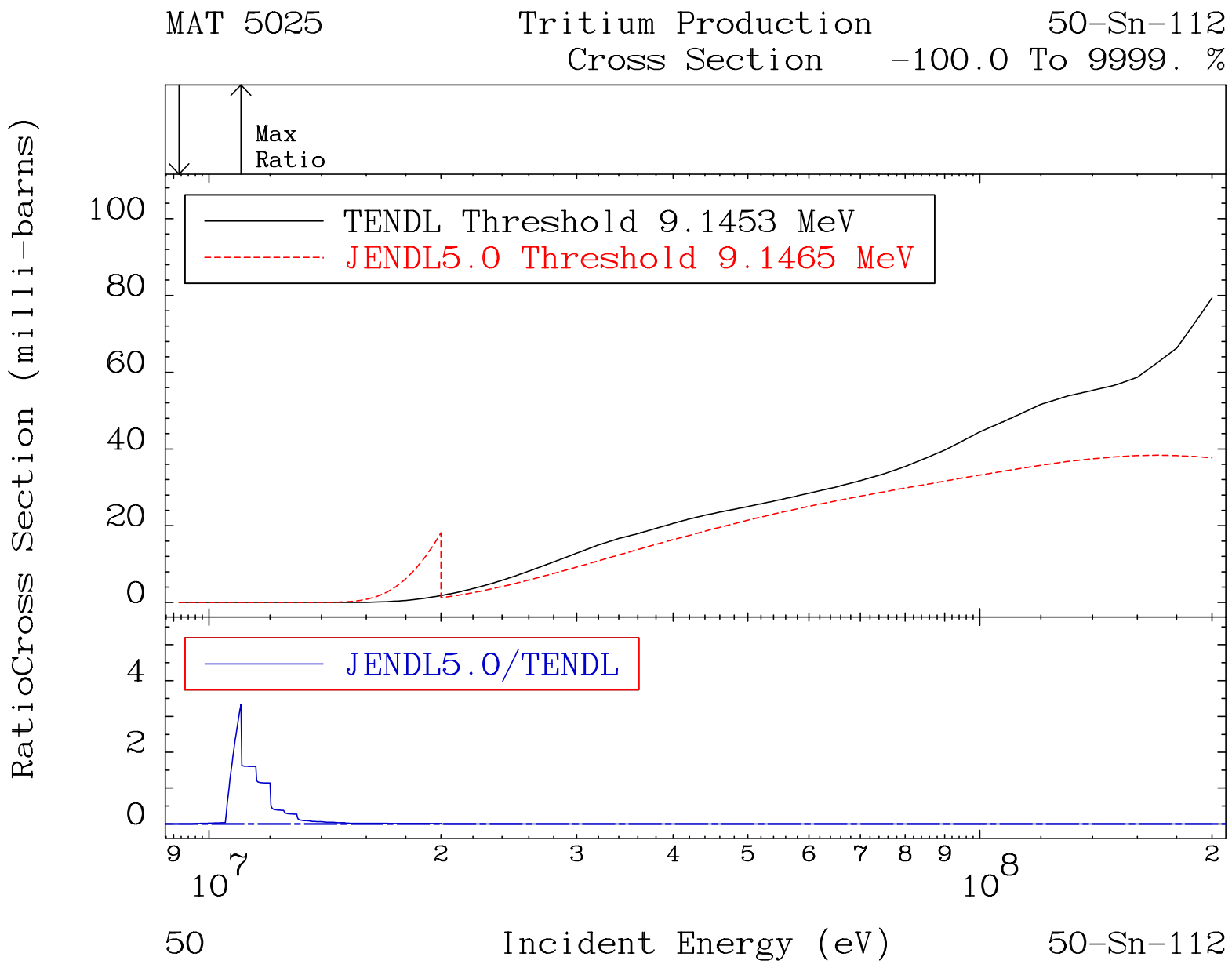

MAT 5025
(n,2p)
50-Sn-112
Cross Section
-100.0 To 117.8 %
Min Ratio
Max Ratio
TENDL Threshold 5.9627 MeV
JENDL5.0 Threshold 5.9637 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
50-Sn-112

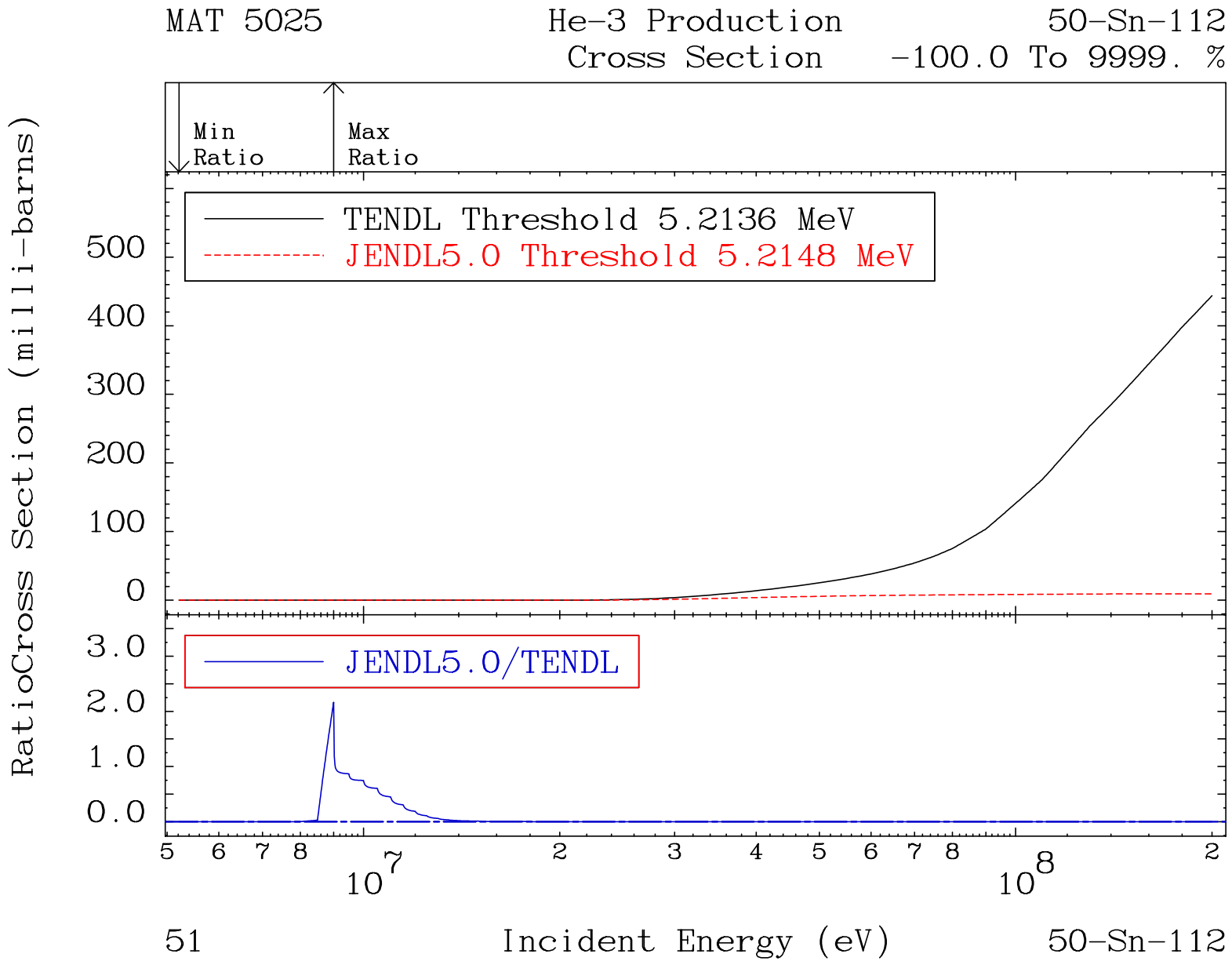

MAT 5025
(n,p) α
50-Sn-112
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.7151 MeV
JENDL5.0 Threshold 2.7264 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
46
50-Sn-112

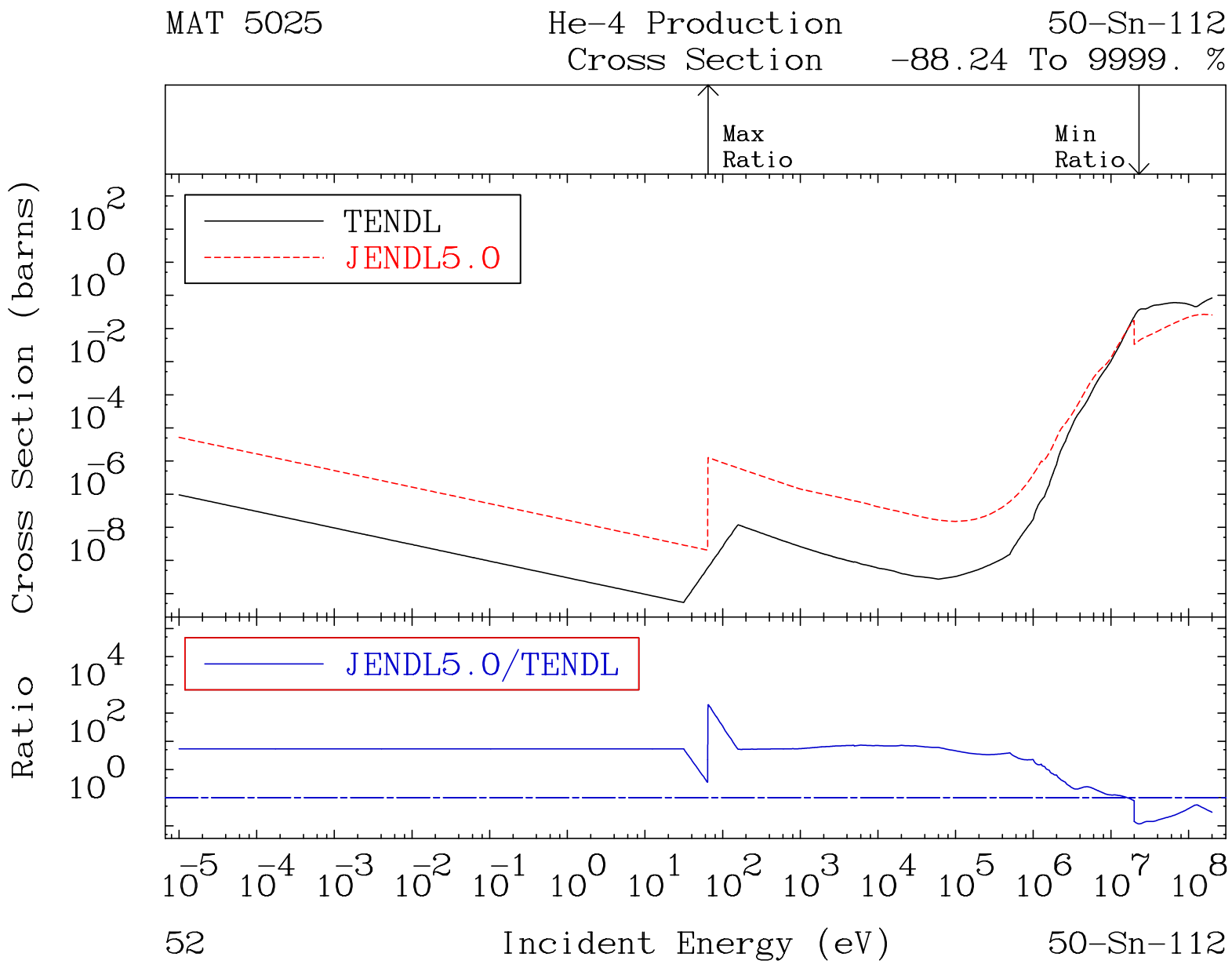

MAT 5025
(n,p) d
Cross Section
50-Sn-112
-100.0 To 163.7 %
Max
Ratio
TENDL Threshold 10.757 MeV
JENDL5.0 Threshold 10.758 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
50-Sn-112

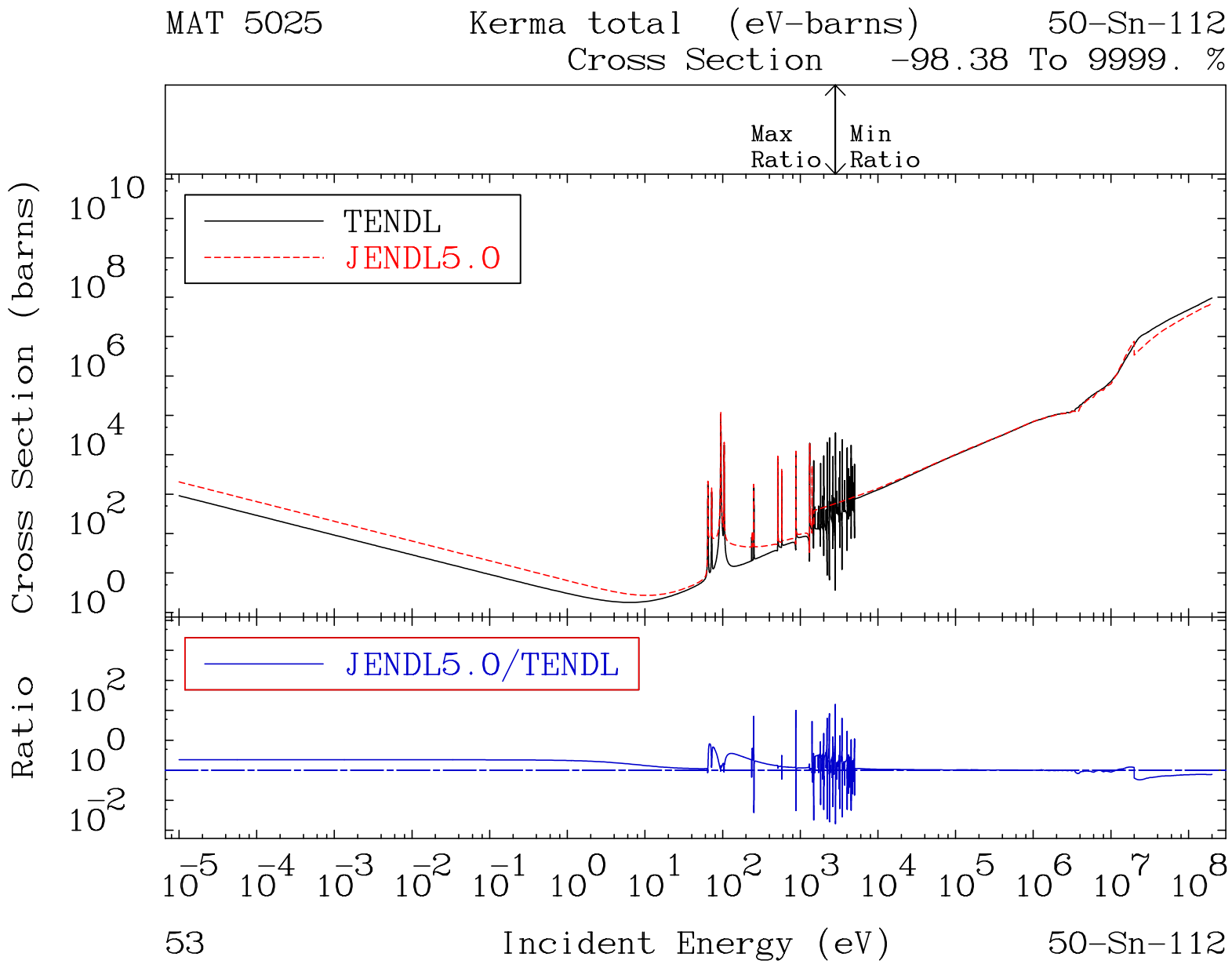

MAT 5025
Hydrogen Production
50-Sn-112
Cross Section
-100.0 To 174.5 %
Min Ratio
Max Ratio
TENDL Threshold 4.9858 keV
JENDL5.0 Threshold 1.8000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
4
2
0
5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
48
Incident Energy (eV)
50-Sn-112

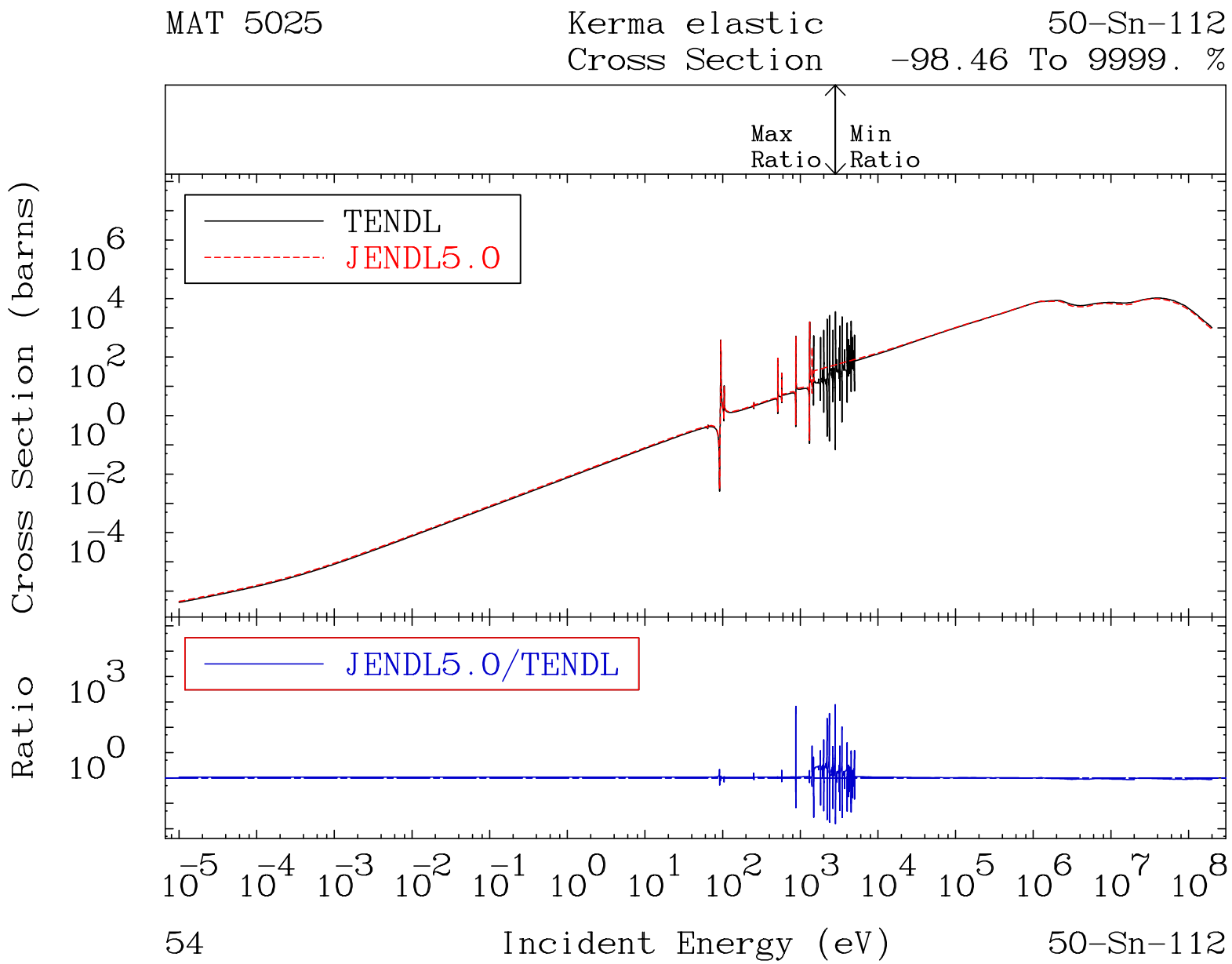

MAT 5025
Deuterium Production
50-Sn-112
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.3754 MeV
JENDL5.0 Threshold 5.3780 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
30
20
10
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
49
Incident Energy (eV)
50-Sn-112

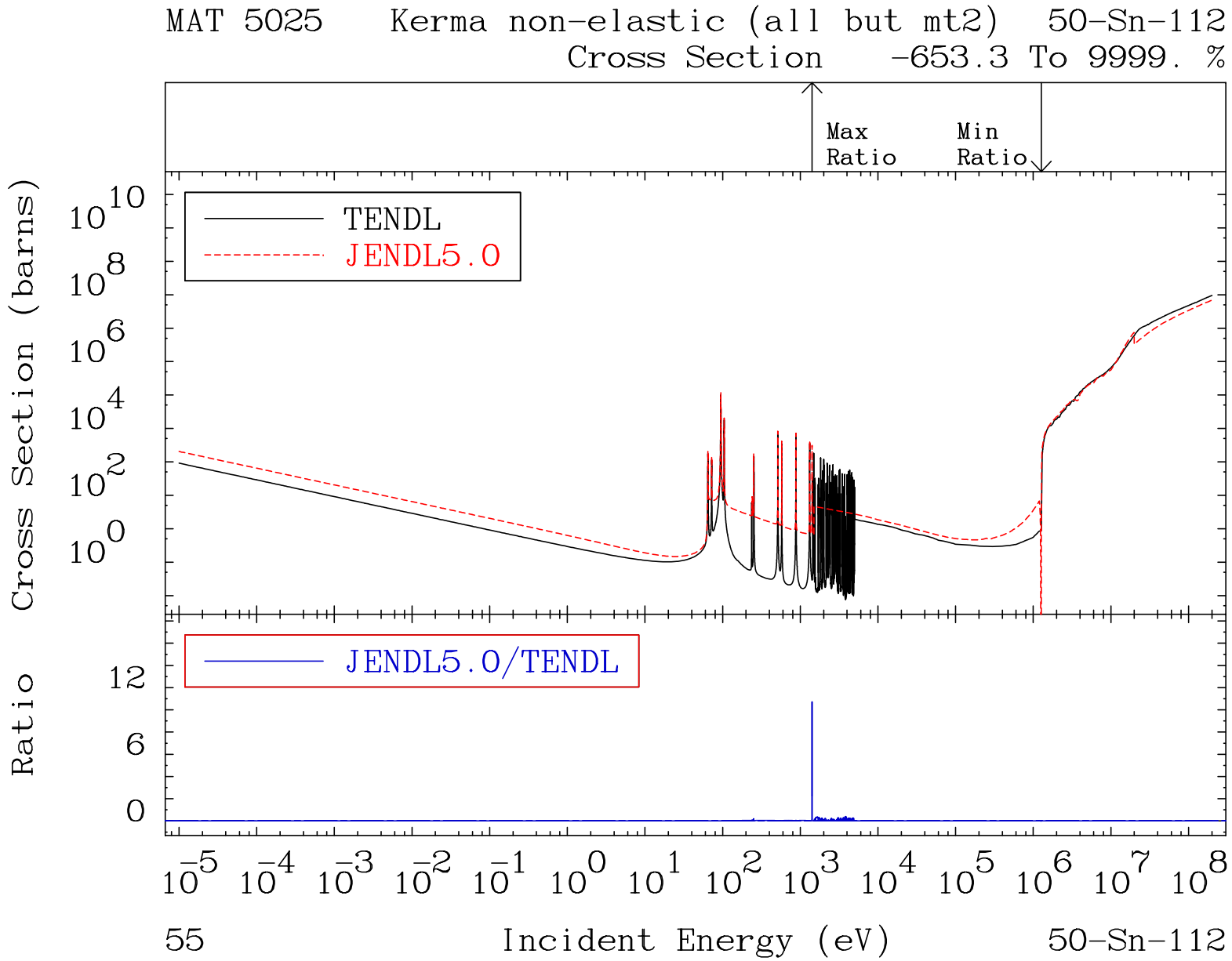

MAT 5025
Tritium Production
50-Sn-112
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 9.1453 MeV
JENDL5.0 Threshold 9.1465 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
4
2
0
9
2
3
4
5
6
7
8
9
2
10^7
10^8
50
Incident Energy (eV)
50-Sn-112

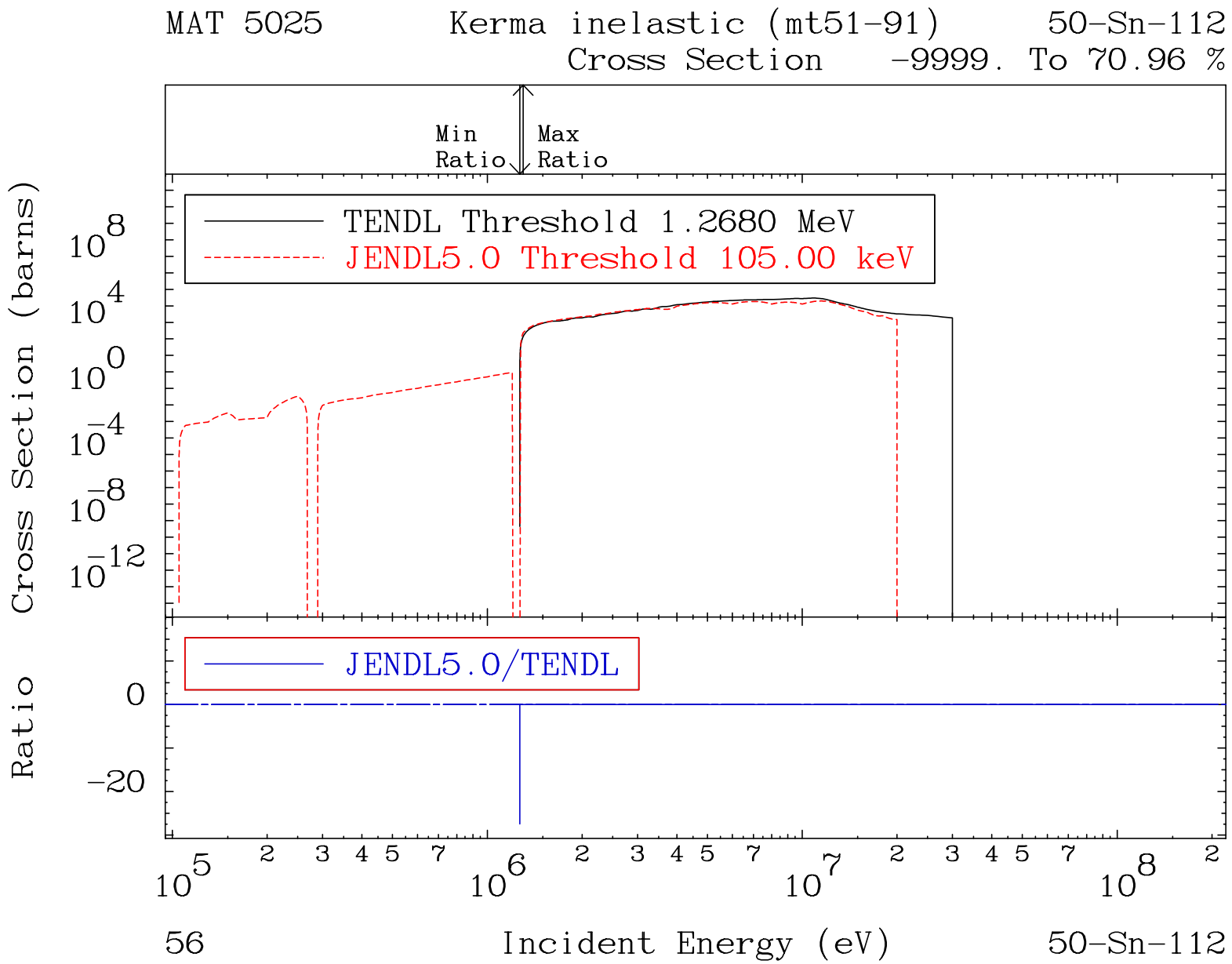

MAT 5025
He-3 Production
Cross Section
50-Sn-112
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.2136 MeV
JENDL5.0 Threshold 5.2148 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
3.0
2.0
1.0
0.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
51
Incident Energy (eV)
50-Sn-112

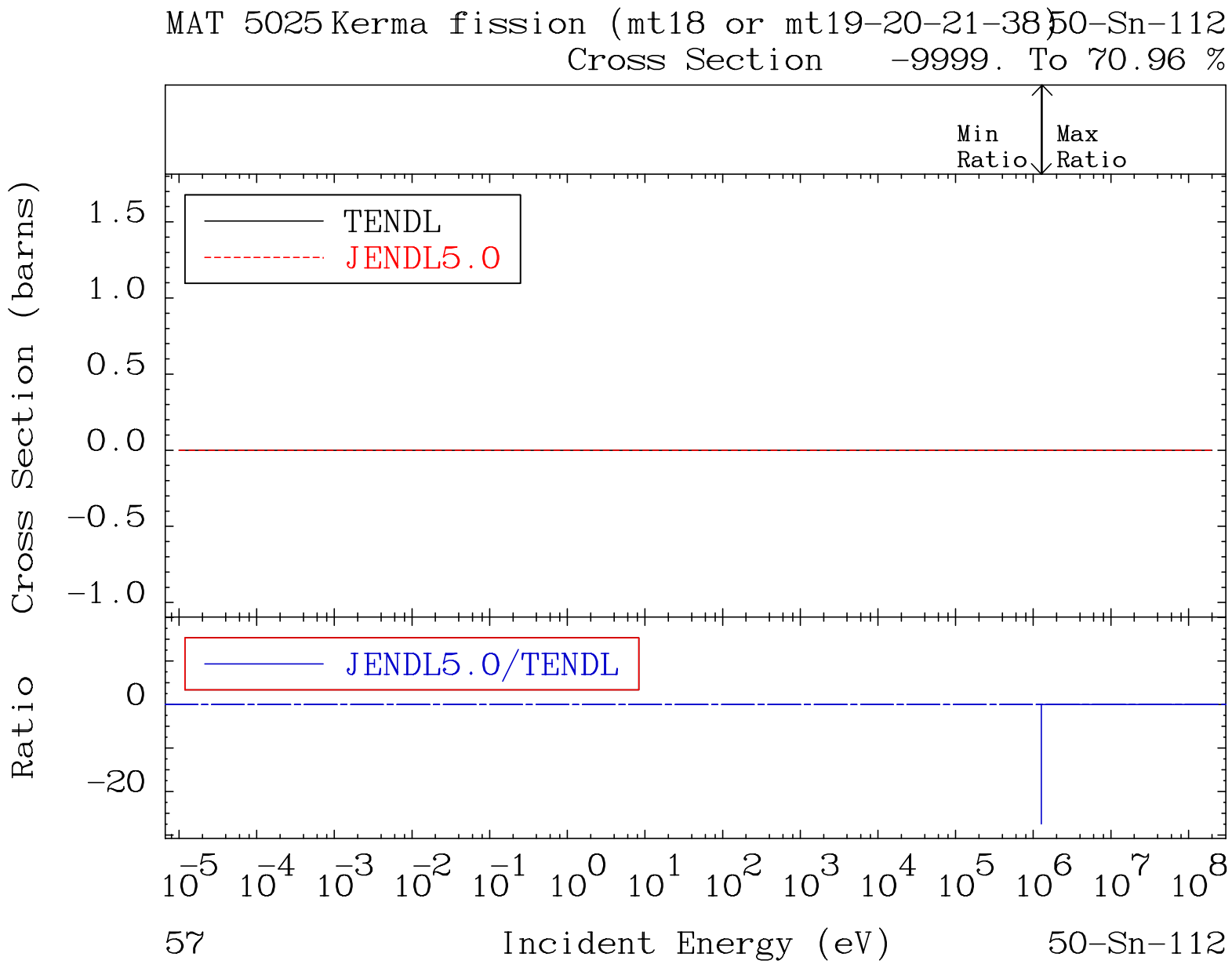

MAT 5025
He-4 Production
Cross Section
50-Sn-112
-88.24 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
52
50-Sn-112

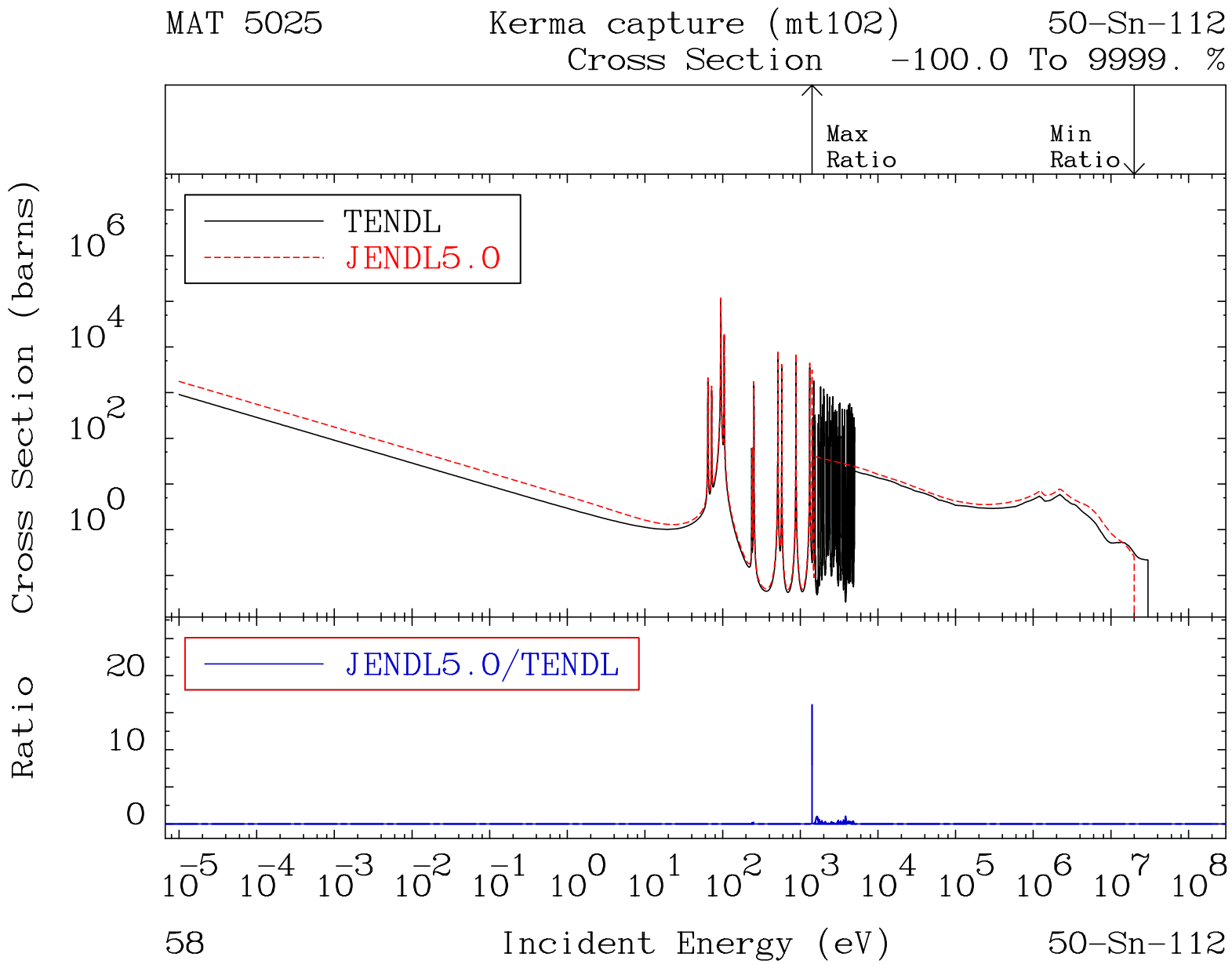

MAT 5025
Kerma total (eV-barns)
50-Sn-112
Cross Section -98.38 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
50-Sn-112

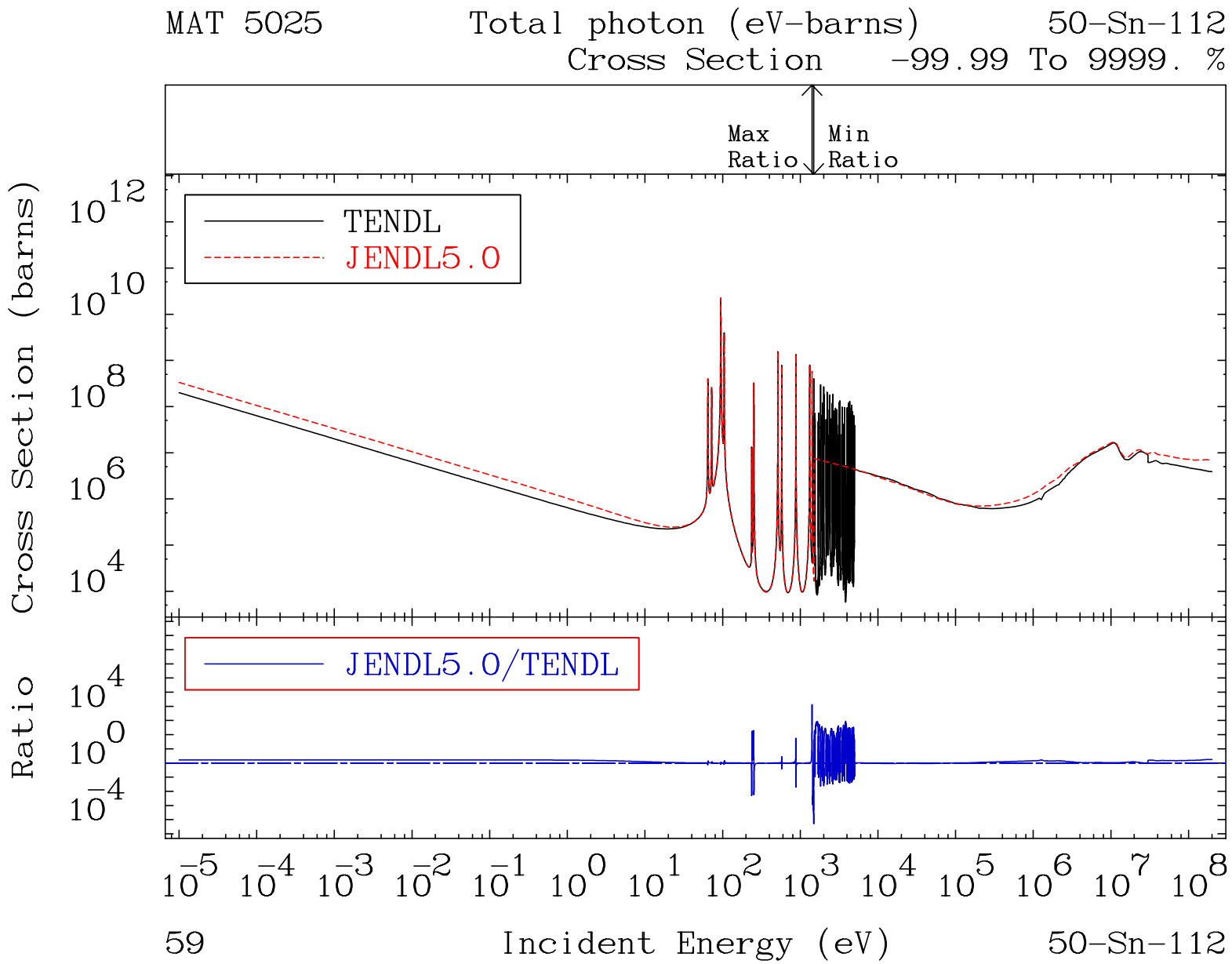

MAT 5025
Kerma elastic
Cross Section
50-Sn-112
-98.46 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
50-Sn-112

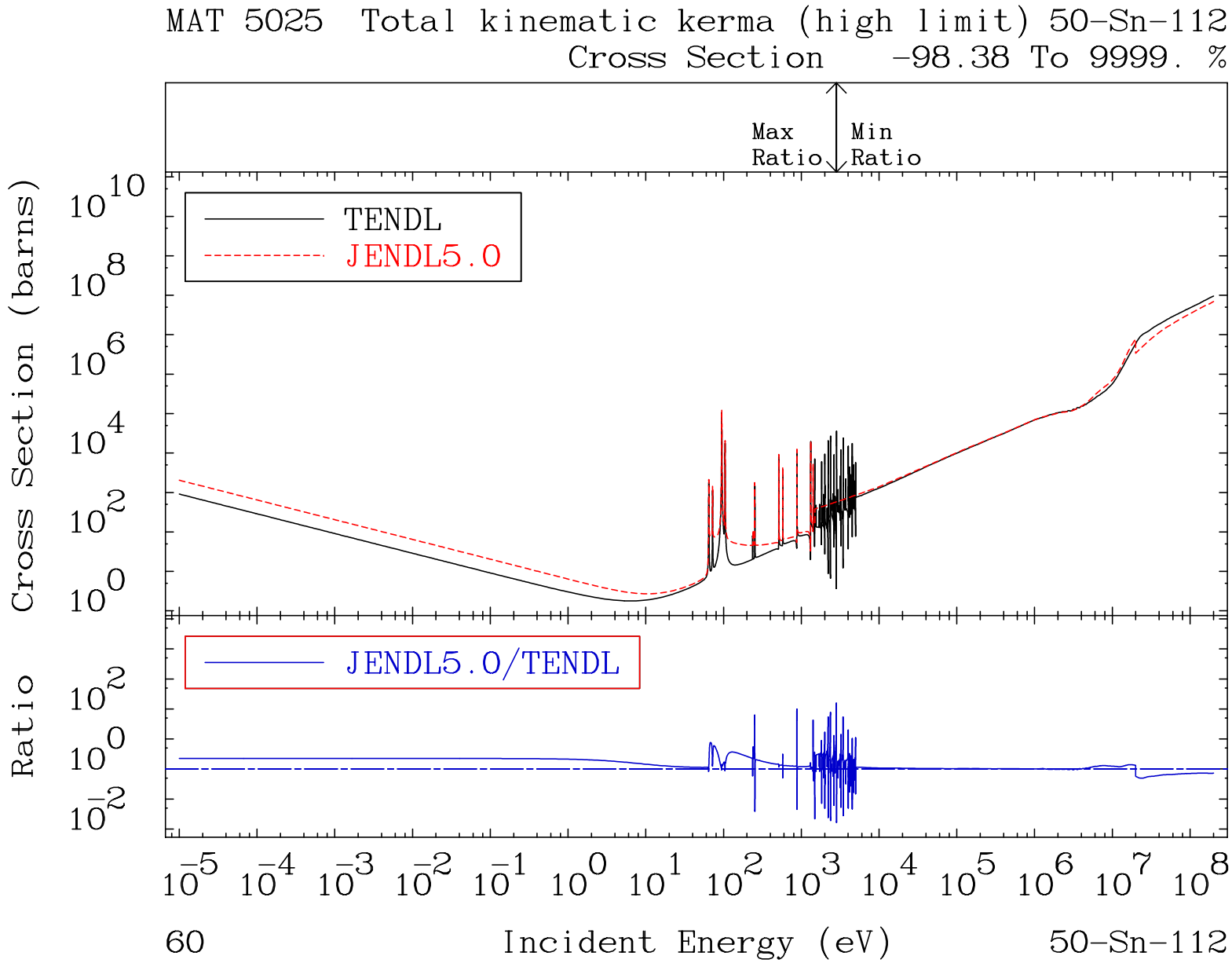

MAT 5025 Kerma non-elastic (all but mt2) 50-Sn-112
Cross Section -653.3 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
55
50-Sn-112

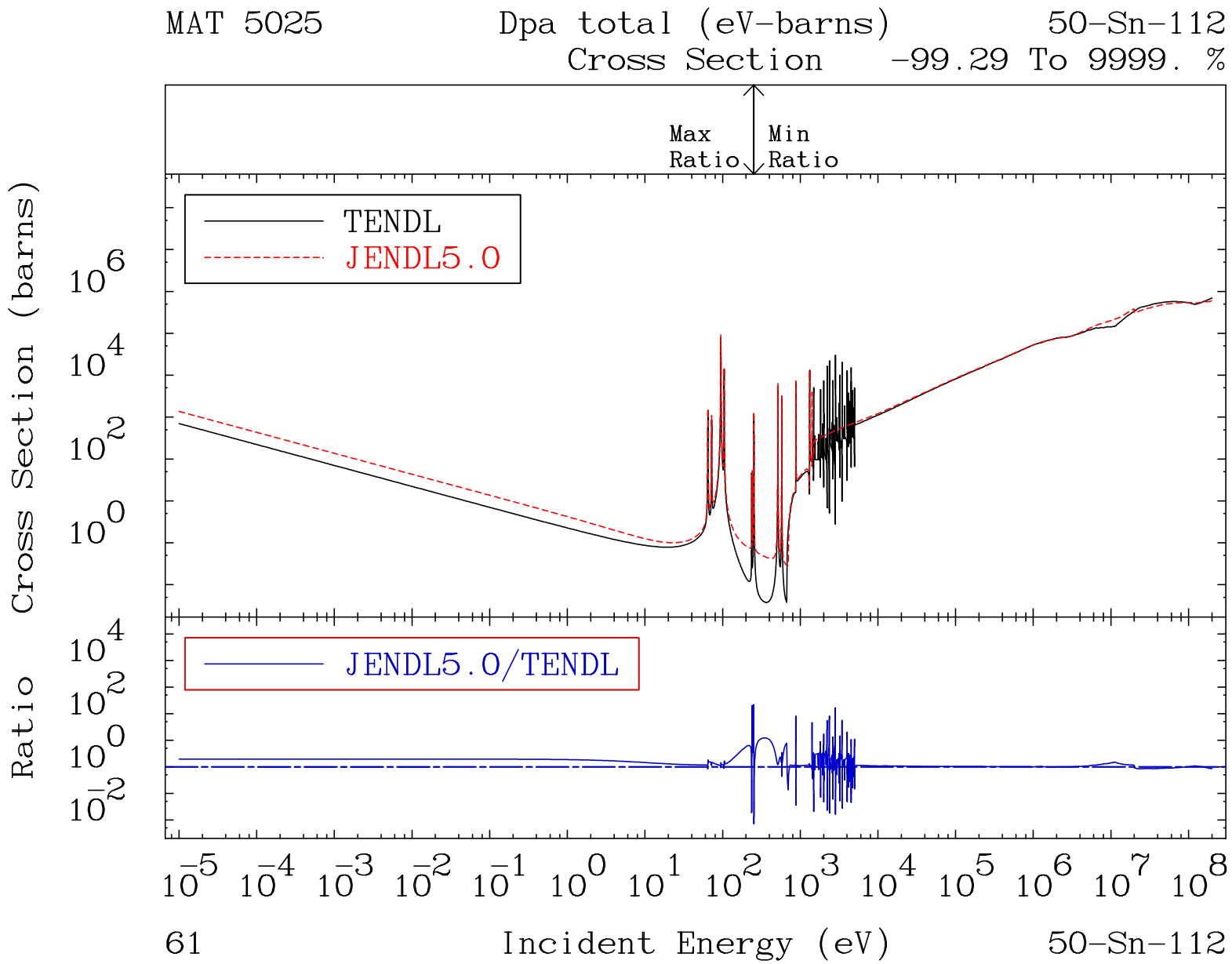

MAT 5025
Kerma inelastic (mt51-91)
50-Sn-112
Cross Section -9999. To 70.96 %
Min Ratio
Max Ratio
TENDL Threshold 1.2680 MeV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
50-Sn-112

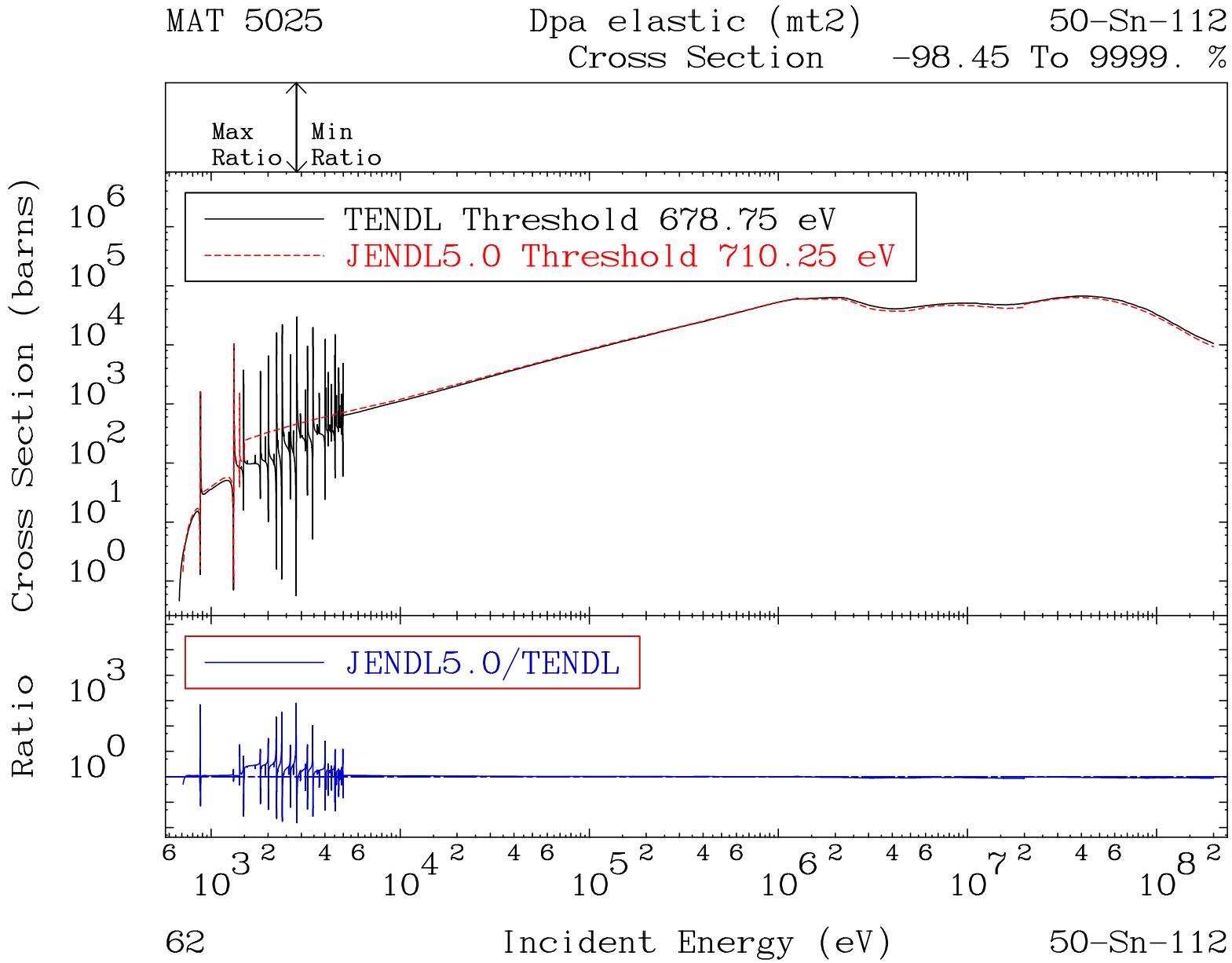

MAT 5025 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-112
Cross Section -9999. To 70.96 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
0
-20
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
57
Incident Energy (eV)
50-Sn-112

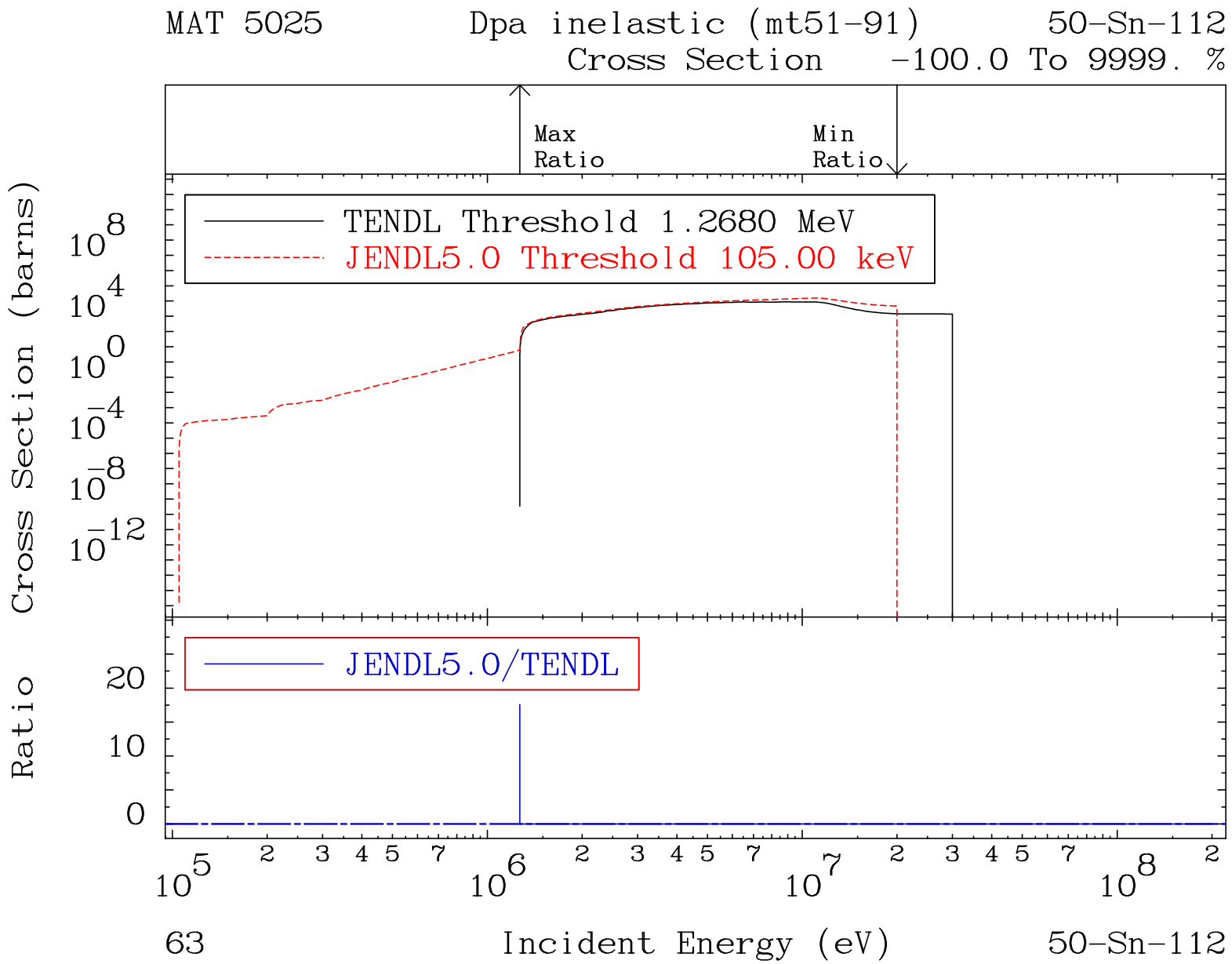

MAT 5025
Kerma capture (mt102)
50-Sn-112
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
58
50-Sn-112

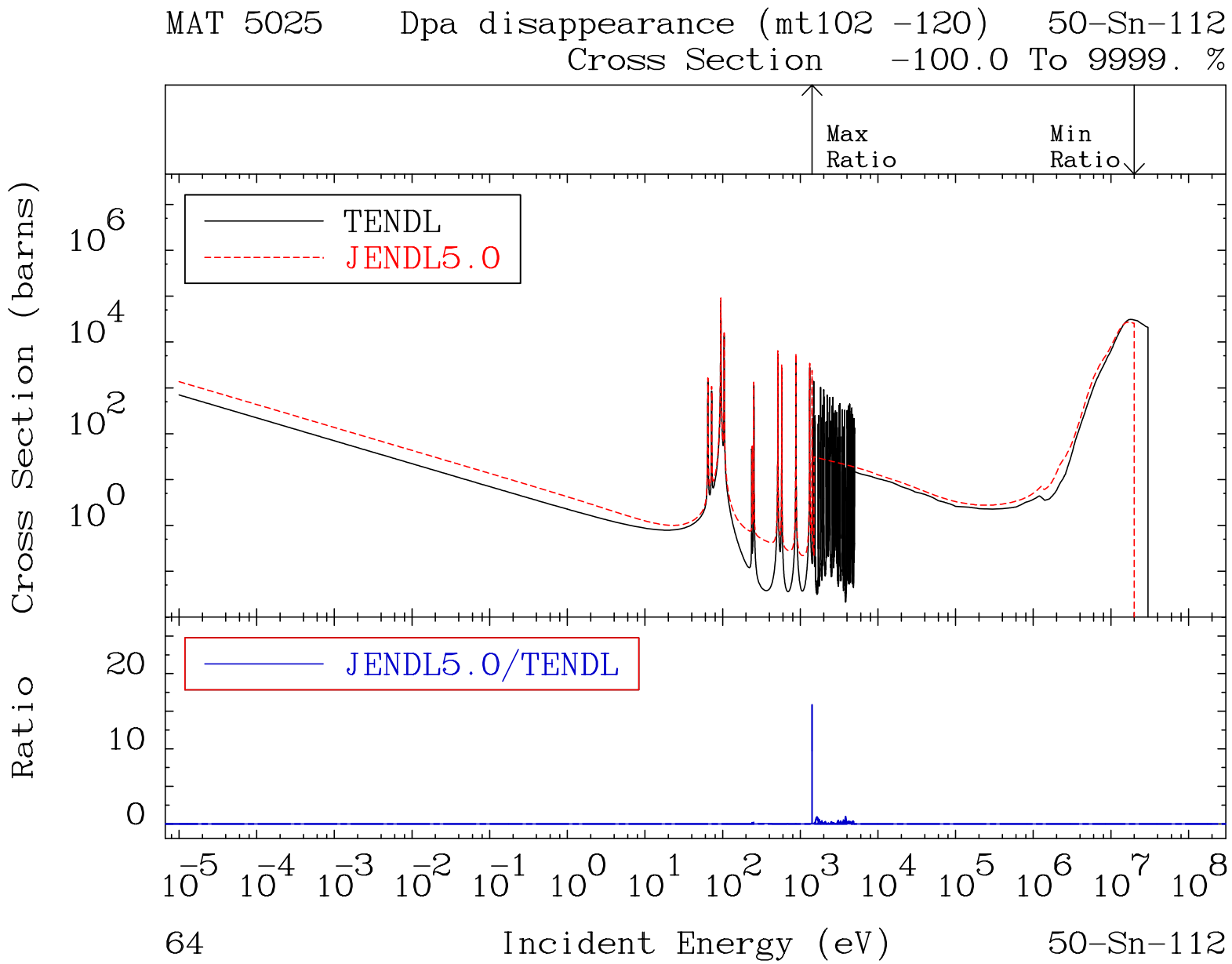

MAT 5025
Total photon (eV-barns)
50-Sn-112
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
50-Sn-112

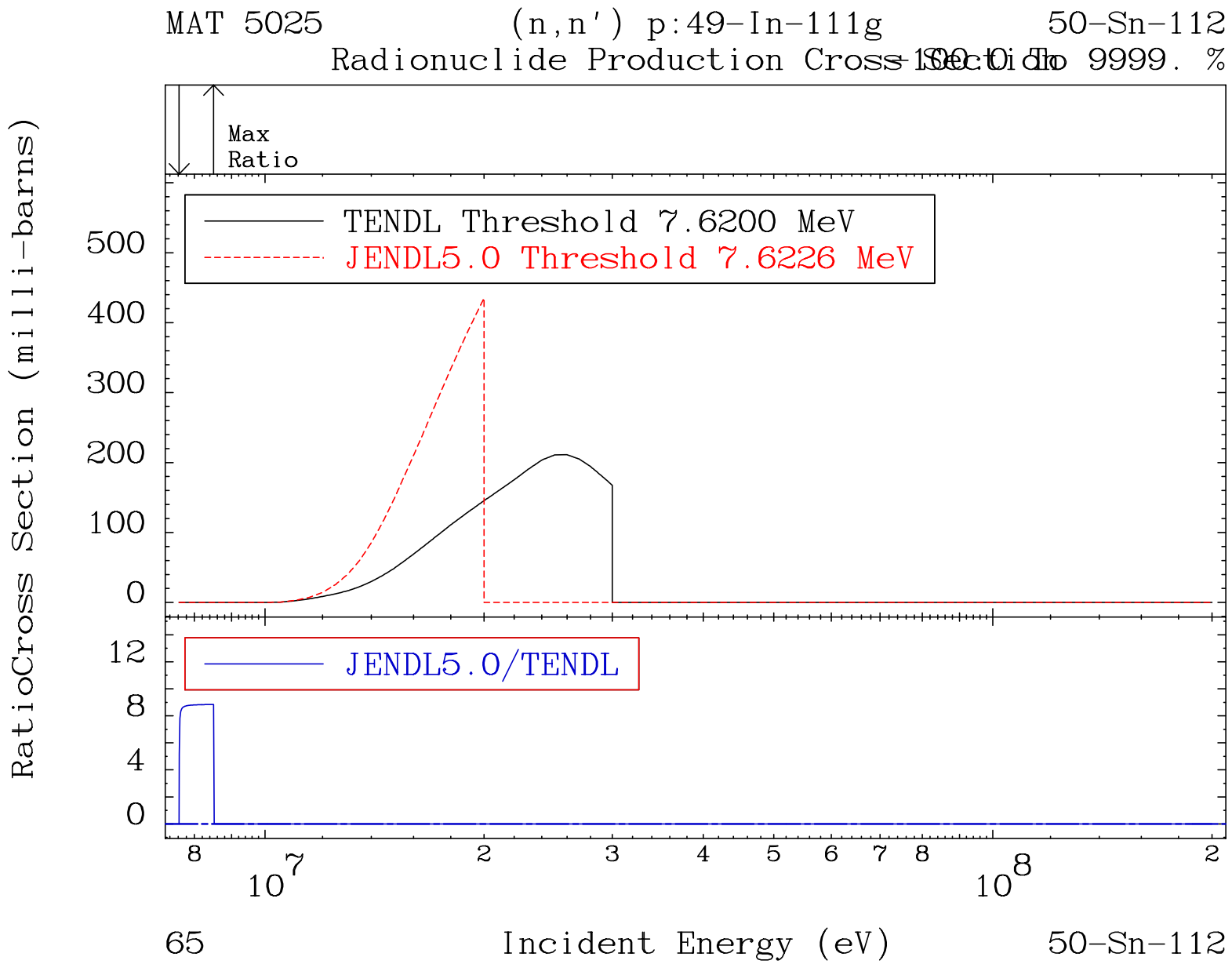

MAT 5025 Total kinematic kerma (high limit) 50-Sn-112
Cross Section -98.38 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
50-Sn-112

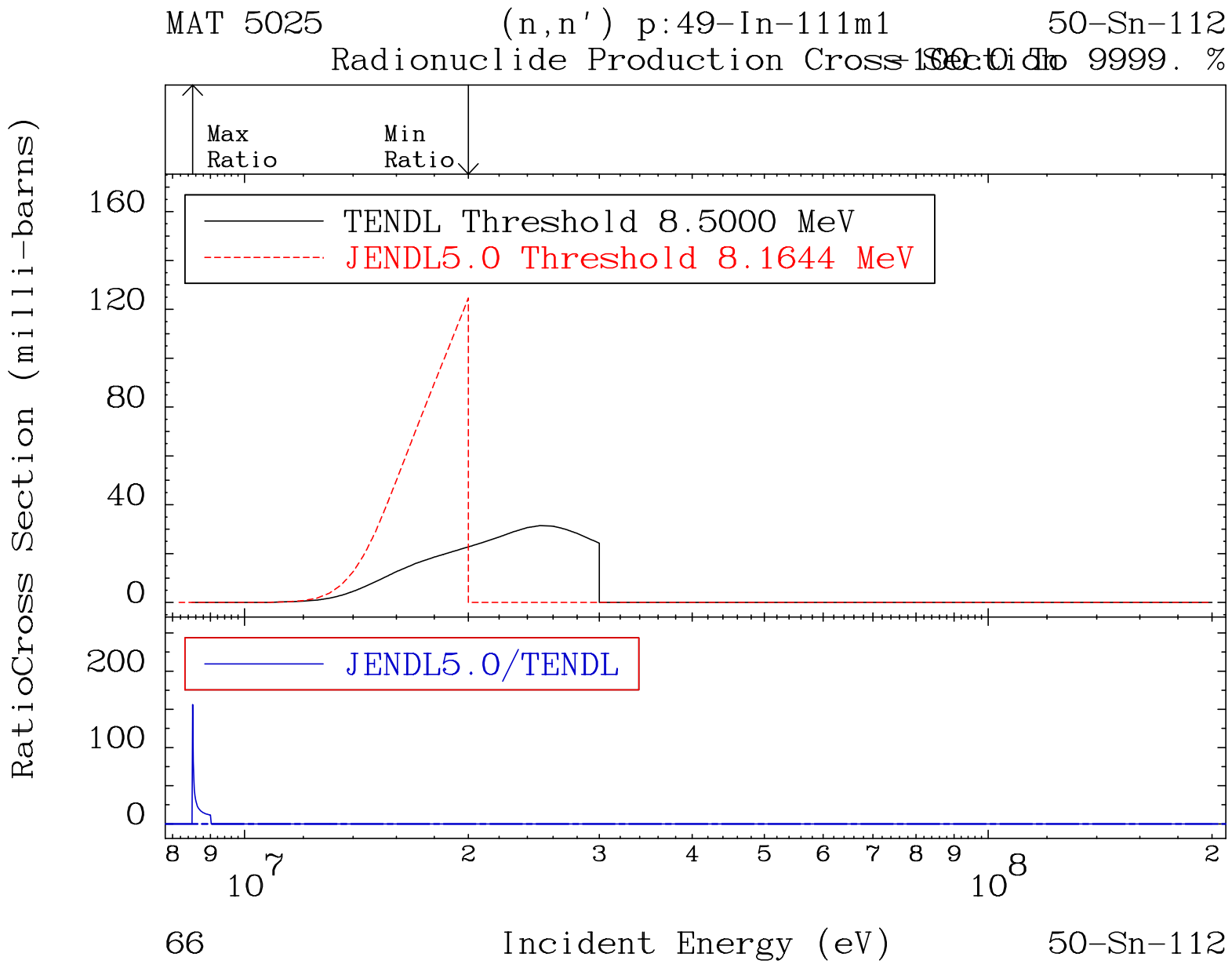

MAT 5025
Dpa total (eV-barns)
50-Sn-112
Cross Section
-99.29 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
50-Sn-112

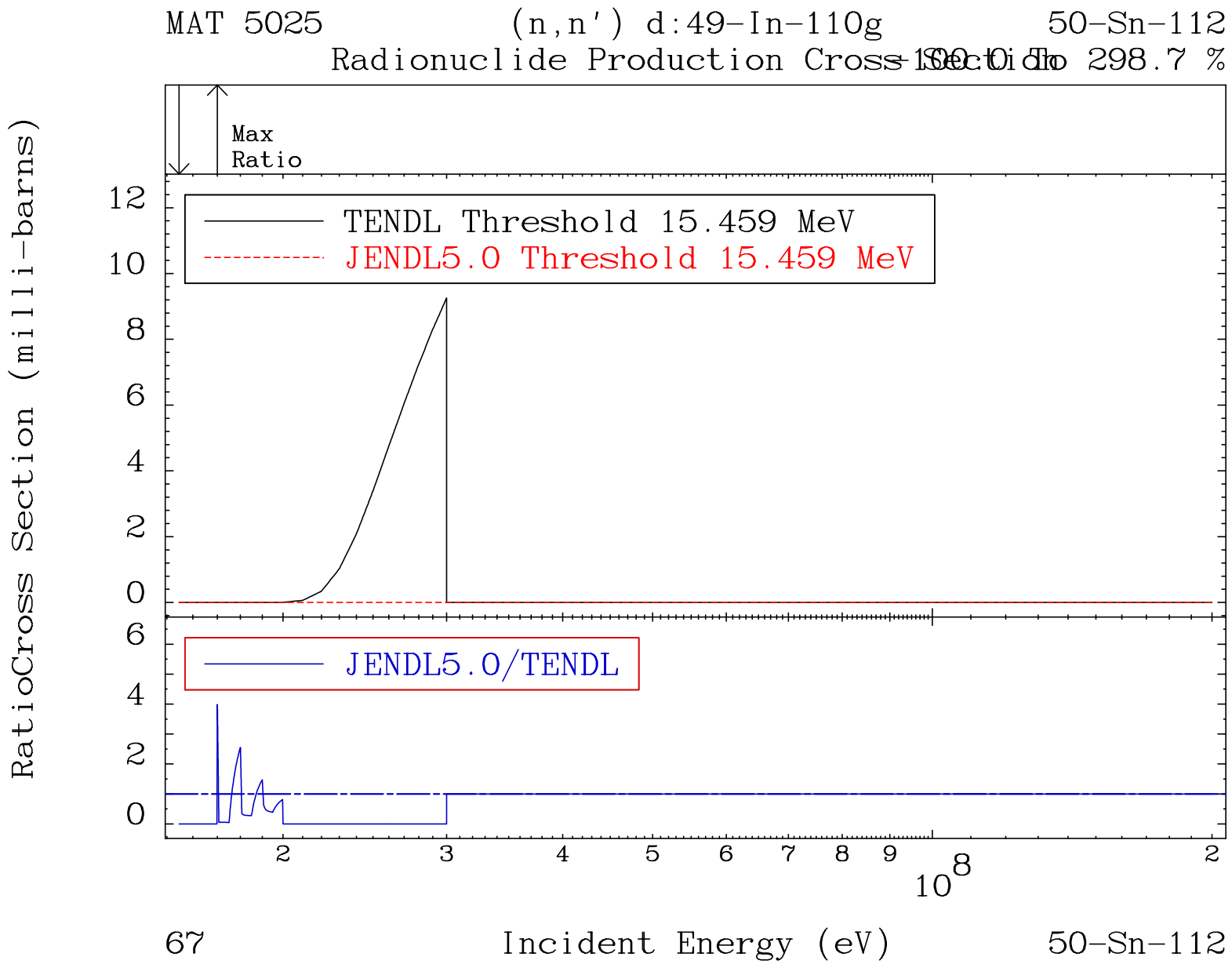

MAT 5025
Dpa elastic (mt2)
Cross Section
50-Sn-112
-98.45 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 678.75 eV
JENDL5.0 Threshold 710.25 eV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
62
50-Sn-112

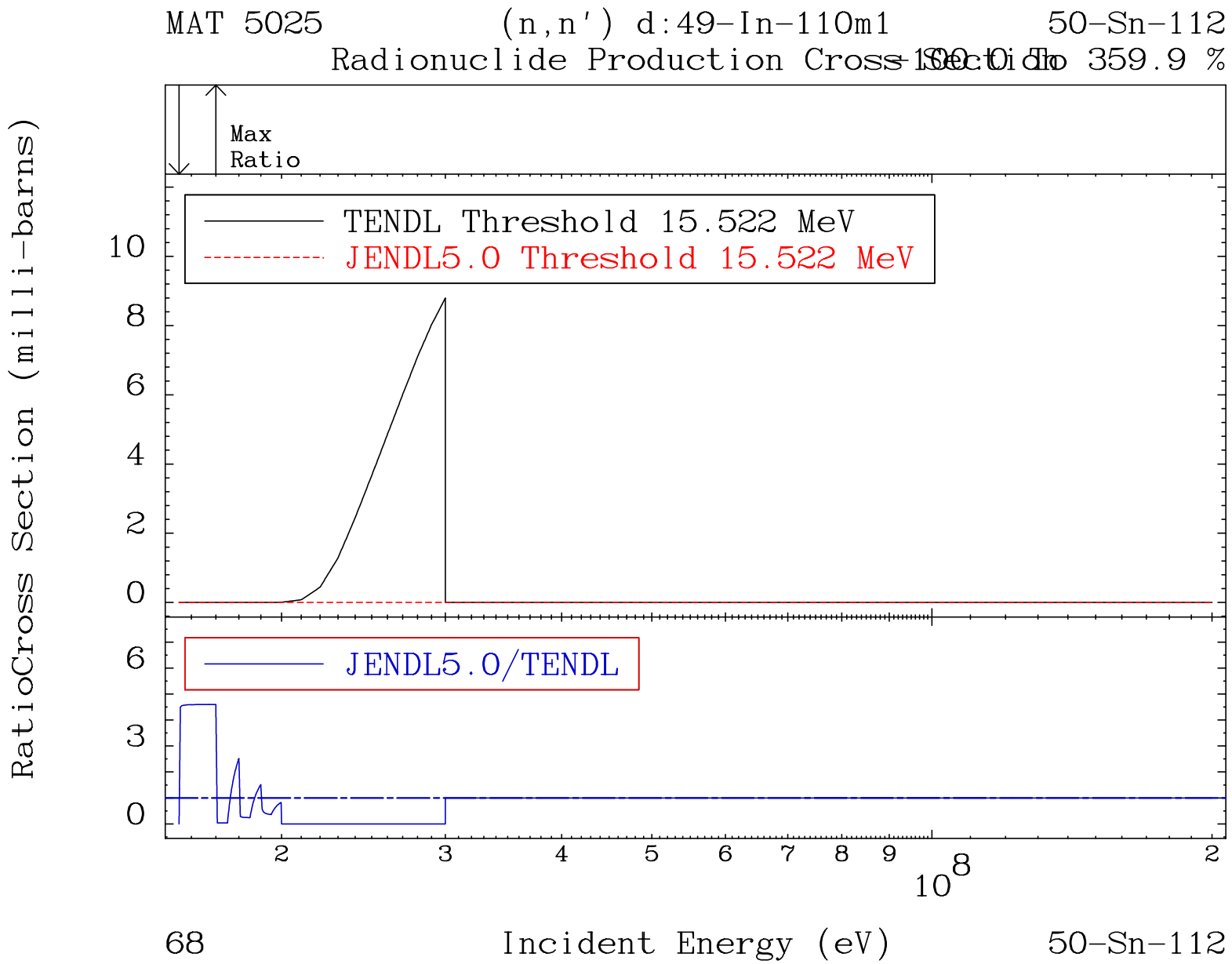

MAT 5025
Dpa inelastic (mt51-91)
50-Sn-112
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.2680 MeV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
63
50-Sn-112

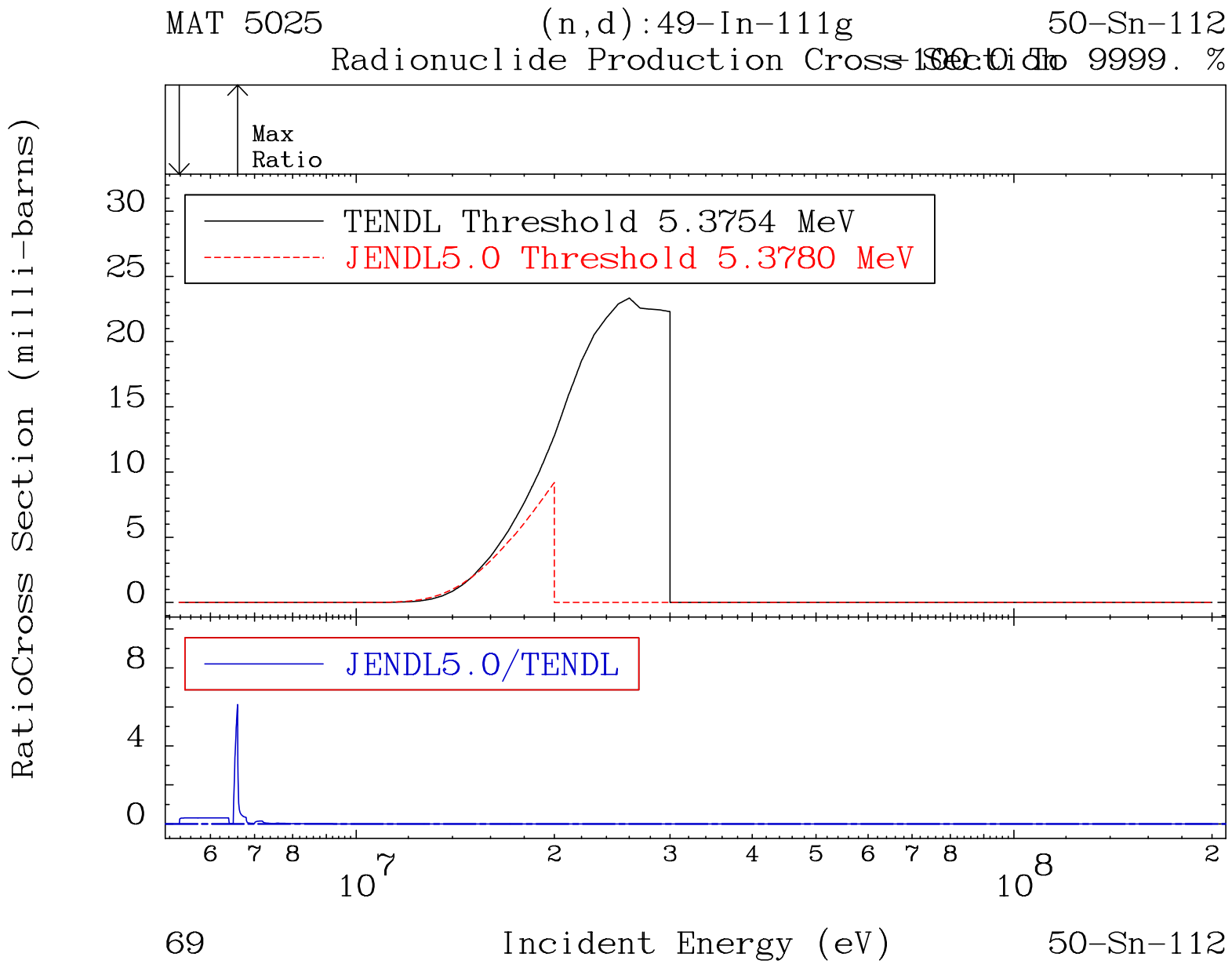

MAT 5025 Dpa disappearance (mt102 -120) 50-Sn-112
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
64
50-Sn-112

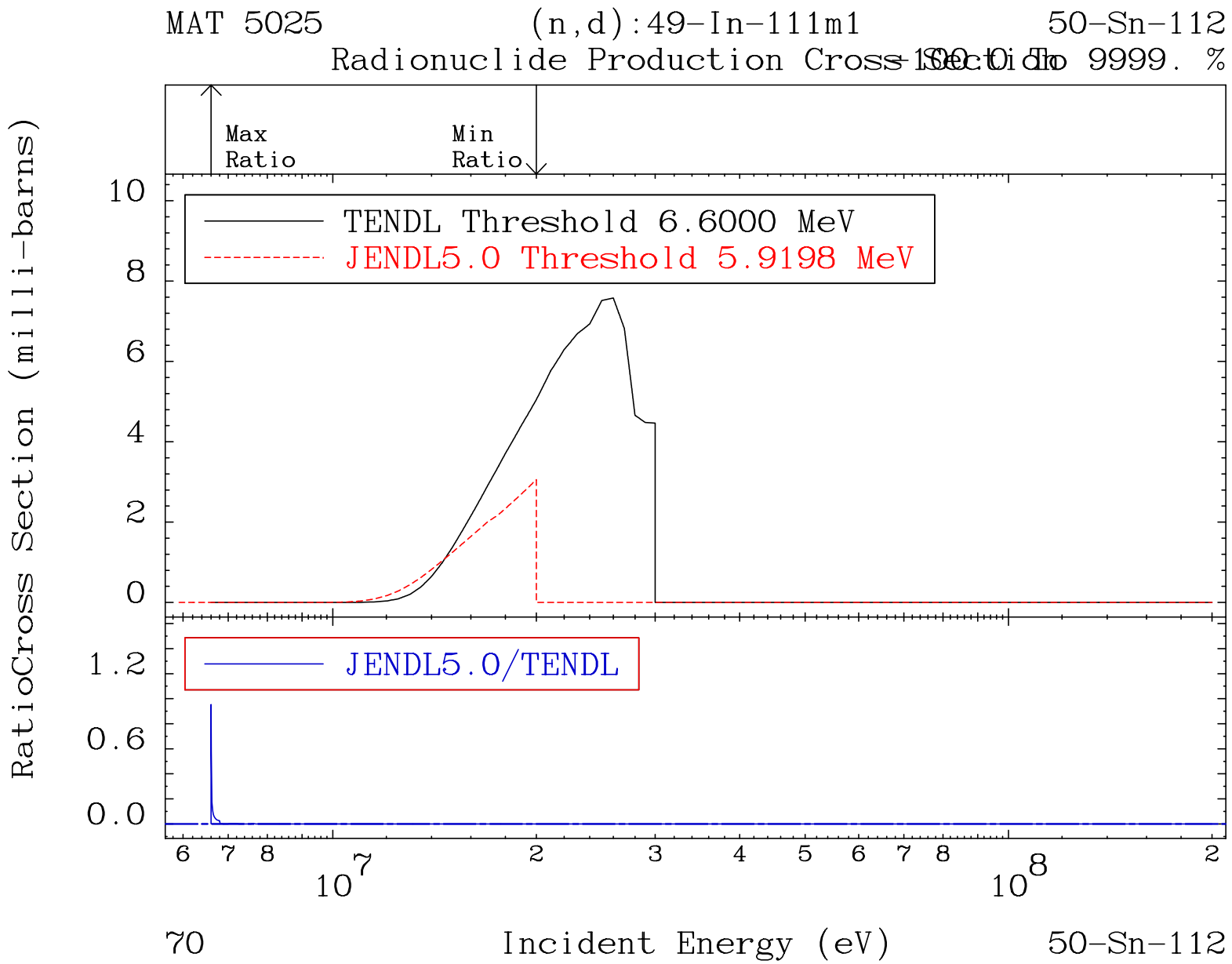

MAT 5025
(n,n') p:49-In-111g
50-Sn-112
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 7.6200 MeV
JENDL5.0 Threshold 7.6226 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
12
8
4
0
8
10^7
2
3
4
5
6
7
8
10^8
2
65
Incident Energy (eV)
50-Sn-112

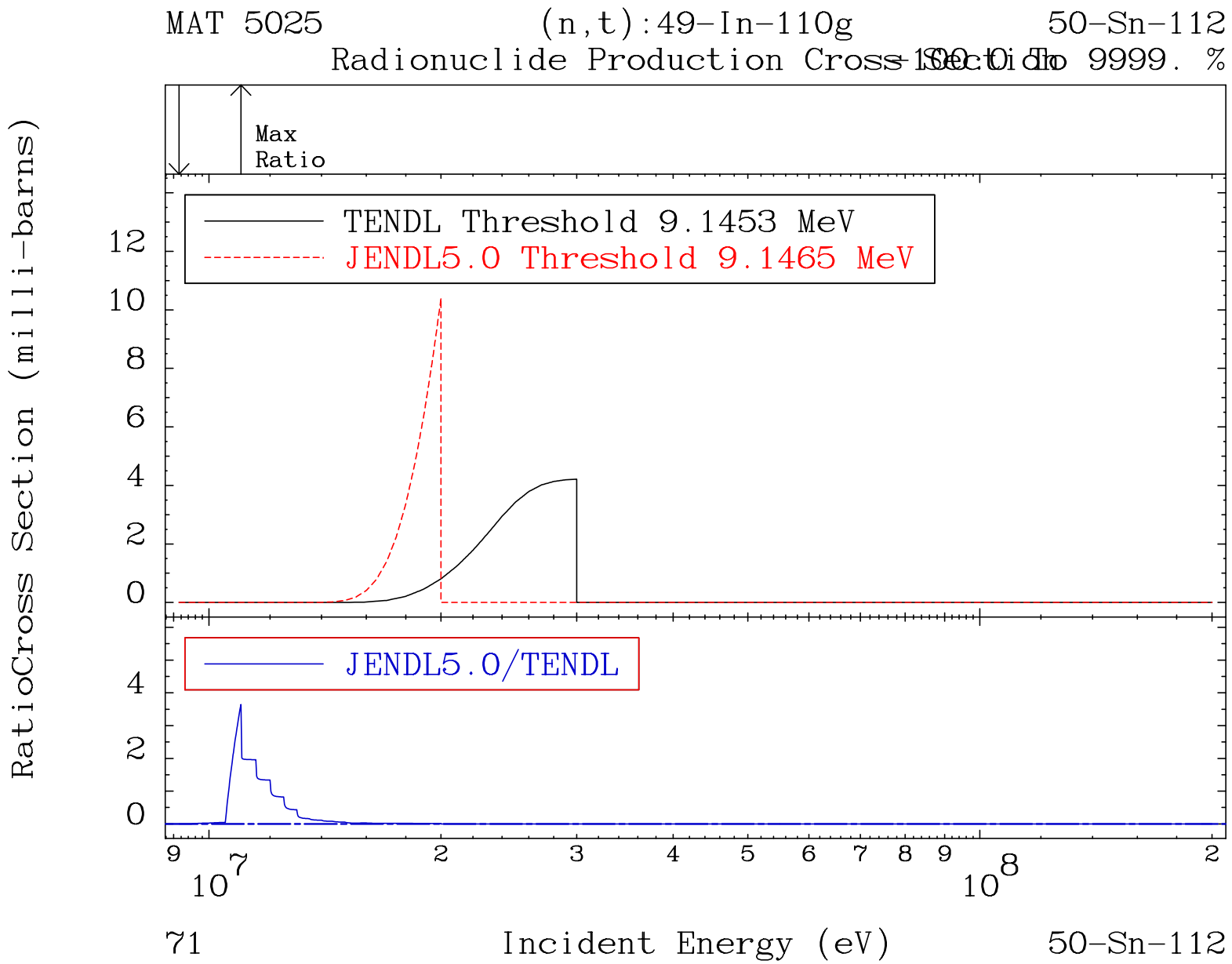

MAT 5025
(n,n') p:49-In-111m1
50-Sn-112
Radionuclide Production Cross Section
Uncertainty 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.5000 MeV
JENDL5.0 Threshold 8.1644 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
200
100
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
66
Incident Energy (eV)
50-Sn-112

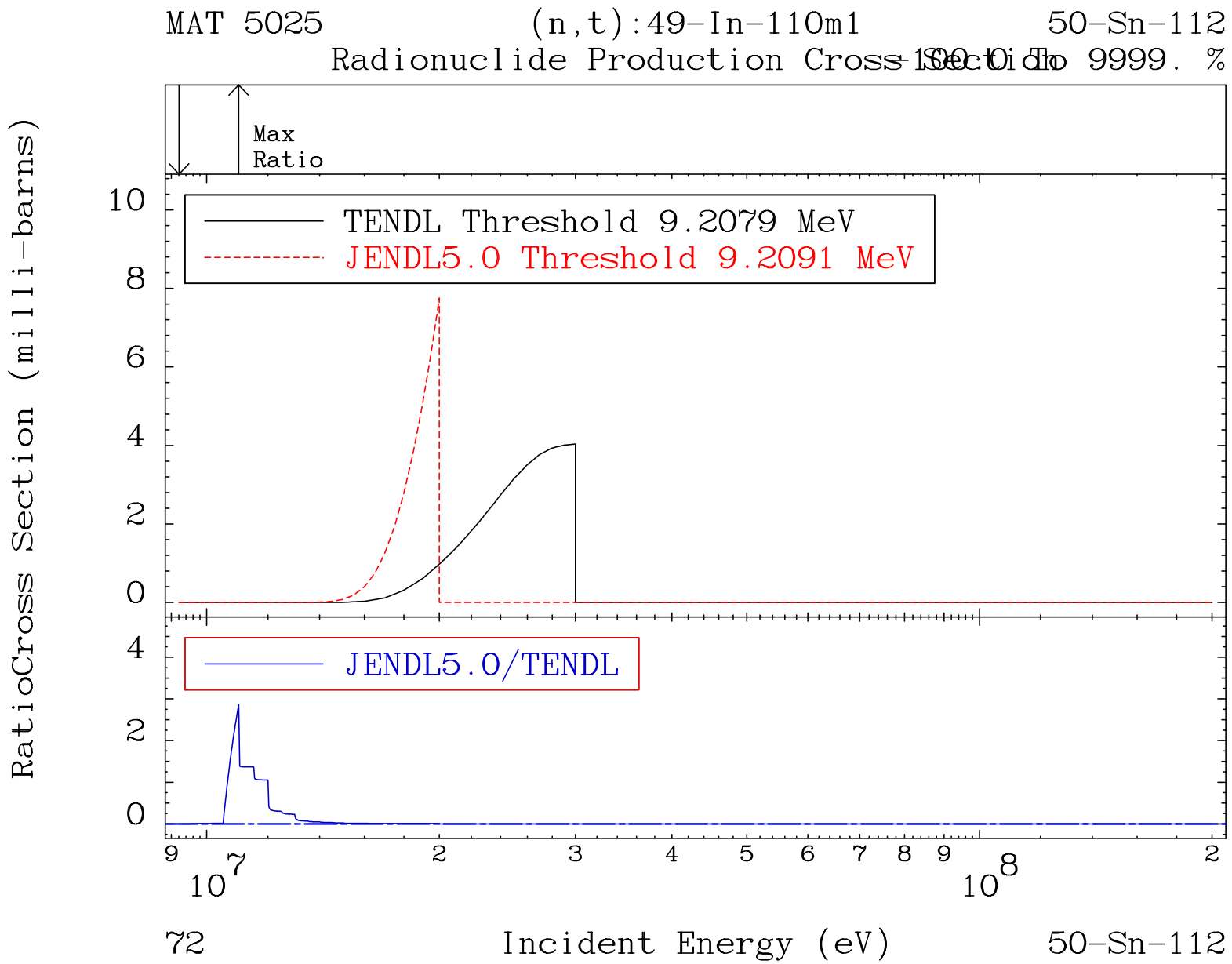

MAT 5025
(n,n') d:49-In-110g
50-Sn-112
Radionuclide Production Cross Section To 298.7 %
Max
Ratio
TENDL Threshold 15.459 MeV
JENDL5.0 Threshold 15.459 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
67
50-Sn-112

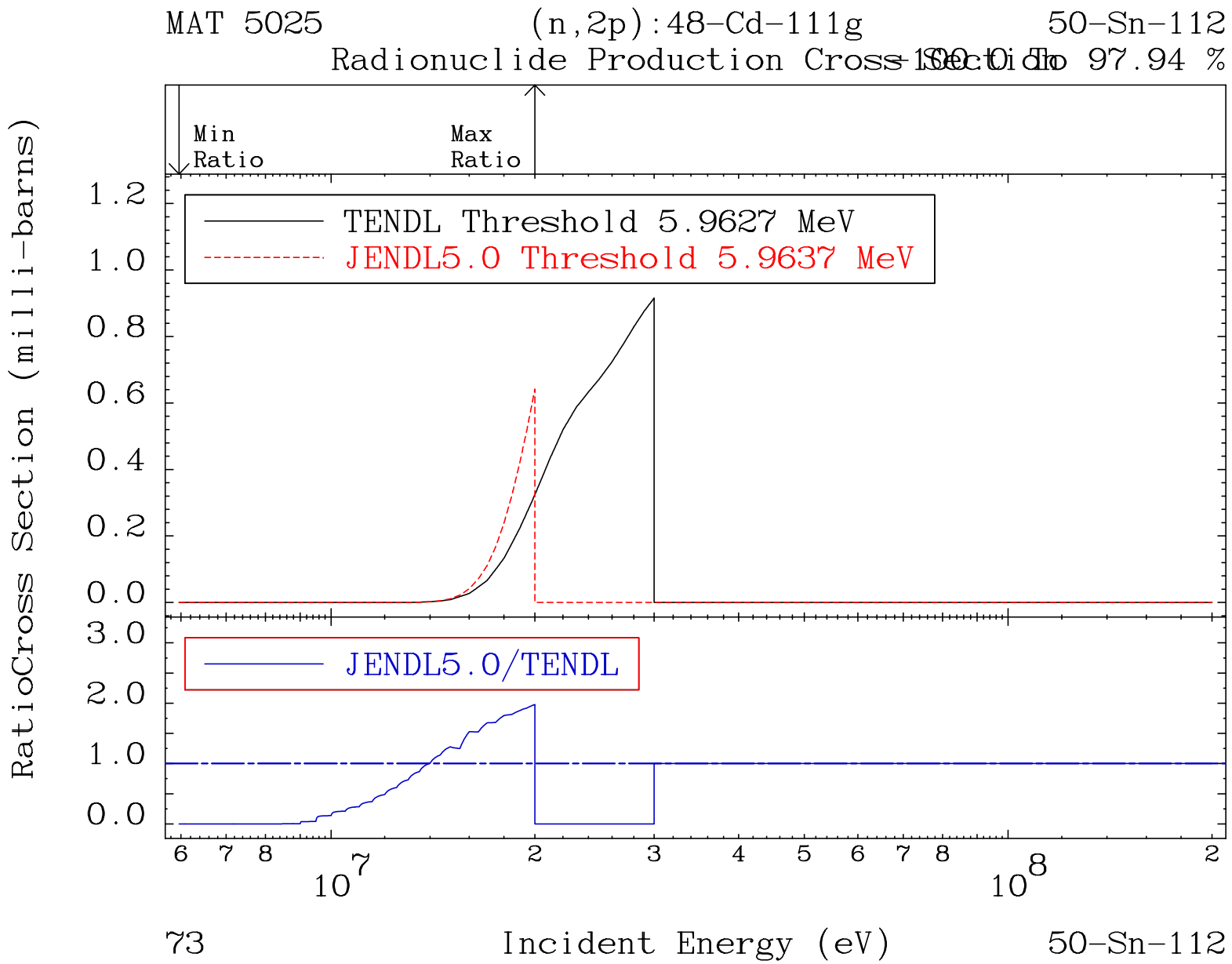

MAT 5025
(n,n') d:49-In-110m1
50-Sn-112
Radionuclide Production Cross Section To 359.9 %
Max
Ratio
TENDL Threshold 15.522 MeV
JENDL5.0 Threshold 15.522 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
6
3
0
2
3
4
5
6
7
8
9
10^8
2
68
Incident Energy (eV)
50-Sn-112

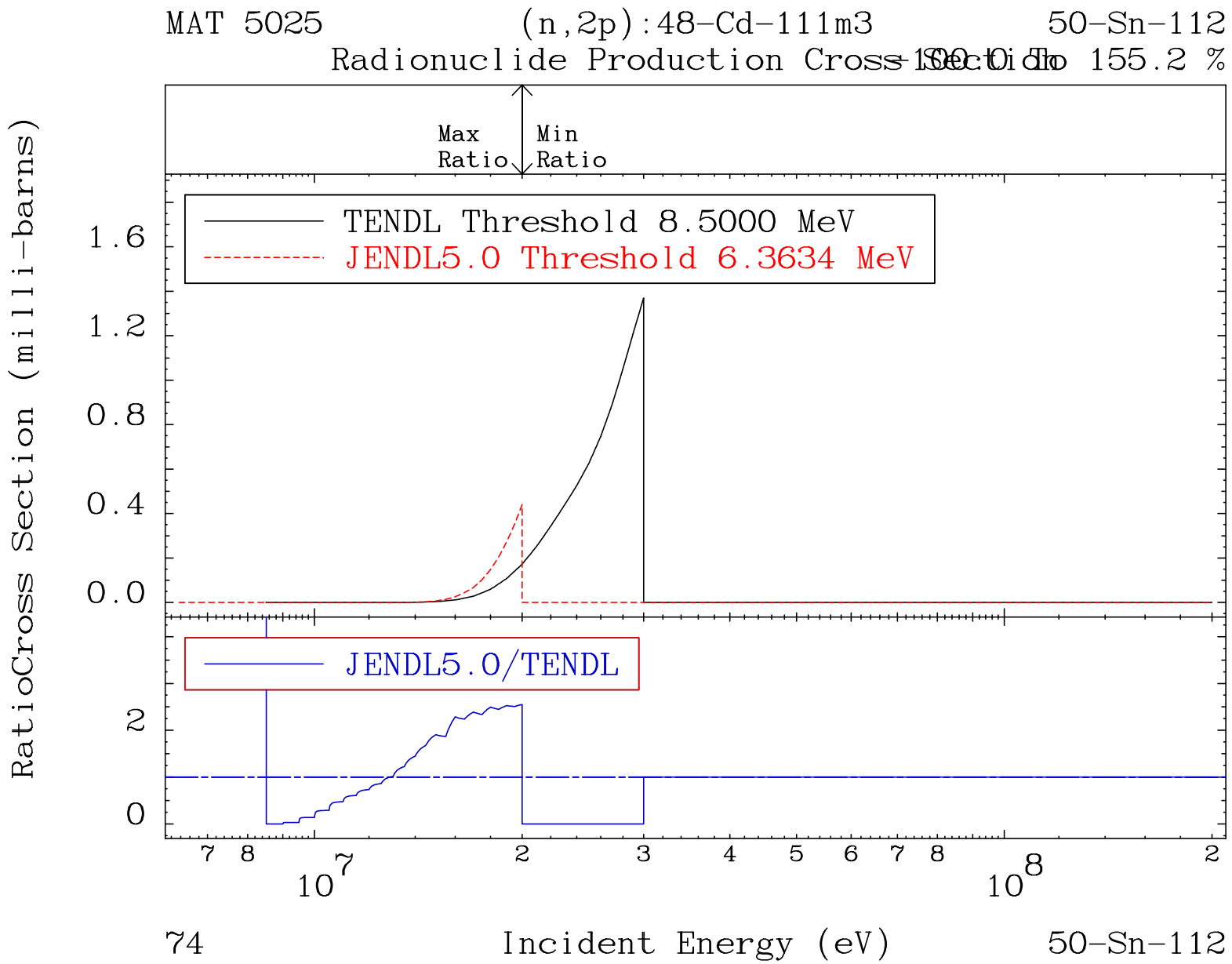

MAT 5025
(n,d):49-In-111g
50-Sn-112
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 5.3754 MeV
JENDL5.0 Threshold 5.3780 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
50-Sn-112

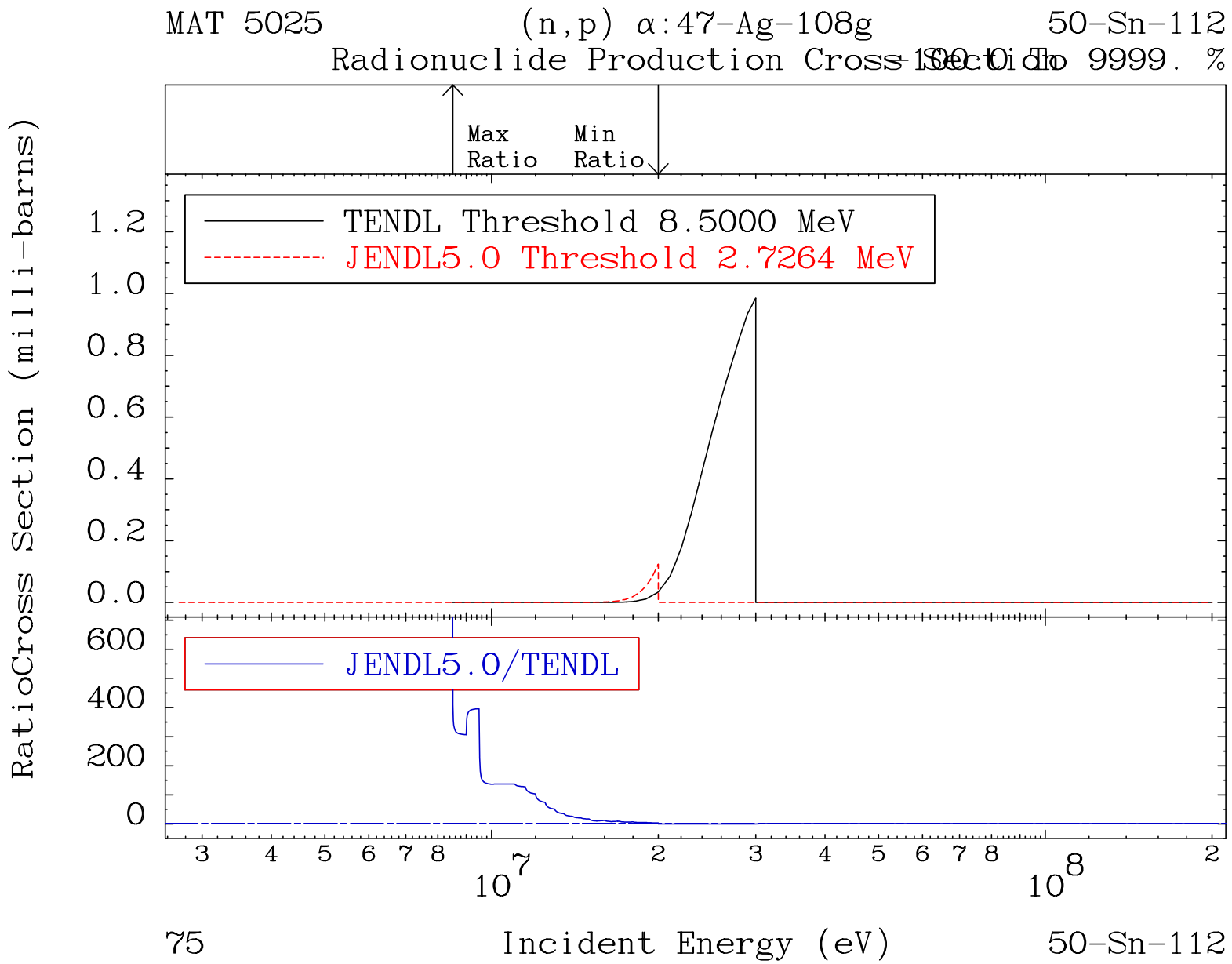

MAT 5025
(n,d):49-In-111m1
50-Sn-112
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.6000 MeV
JENDL5.0 Threshold 5.9198 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
1.2
0.6
0.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
70
Incident Energy (eV)
50-Sn-112

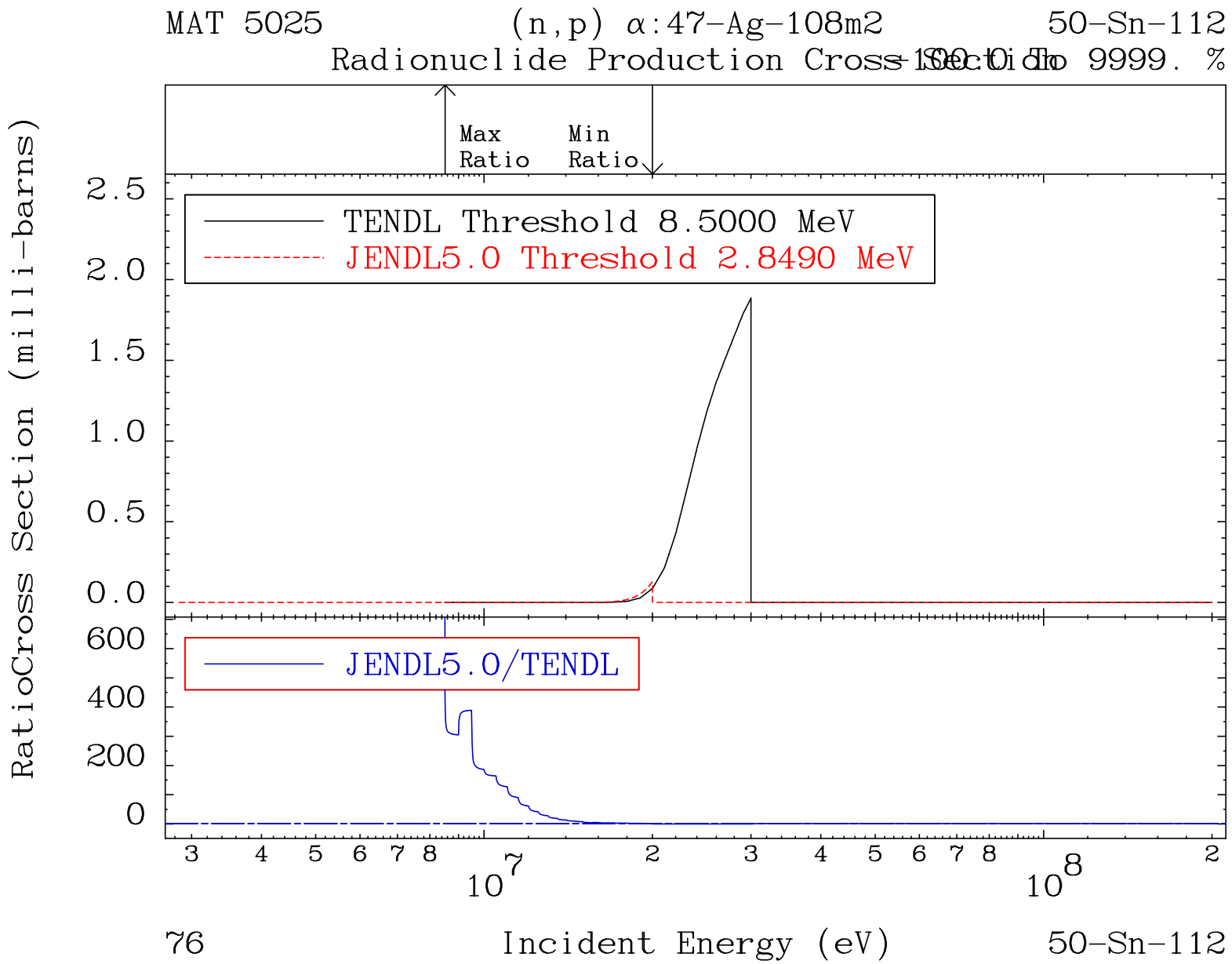

MAT 5025
(n,t):49-In-110g
50-Sn-112
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 9.1453 MeV
JENDL5.0 Threshold 9.1465 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
50-Sn-112


MAT 5025
(n,t):49-In-110m1
50-Sn-112
Radionuclide Production Cross Section
100.0 To 9999. %
Max
Ratio
TENDL Threshold 9.2079 MeV
JENDL5.0 Threshold 9.2091 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
72
50-Sn-112


MAT 5025
(n,2p):48-Cd-111g
50-Sn-112
Radionuclide Production Cross Section To 97.94 %
Min Ratio
Max Ratio
TENDL Threshold 5.9627 MeV
JENDL5.0 Threshold 5.9637 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
3.0
2.0
1.0
0.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
73
Incident Energy (eV)
50-Sn-112


MAT 5025
(n,2p):48-Cd-111m3
50-Sn-112
Radionuclide Production Cross Section
Max Ratio = 155.2 %
Max Ratio
Min Ratio
TENDL Threshold 8.5000 MeV
JENDL5.0 Threshold 6.3634 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
2
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
74
Incident Energy (eV)
50-Sn-112


MAT 5025
(n,p) α:47-Ag-108g
50-Sn-112
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.5000 MeV
JENDL5.0 Threshold 2.7264 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
600
400
200
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
75
Incident Energy (eV)
50-Sn-112


MAT 5025
(n,p) α:47-Ag-108m2
50-Sn-112
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.5000 MeV
JENDL5.0 Threshold 2.8490 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
600
400
200
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
76
Incident Energy (eV)
50-Sn-112