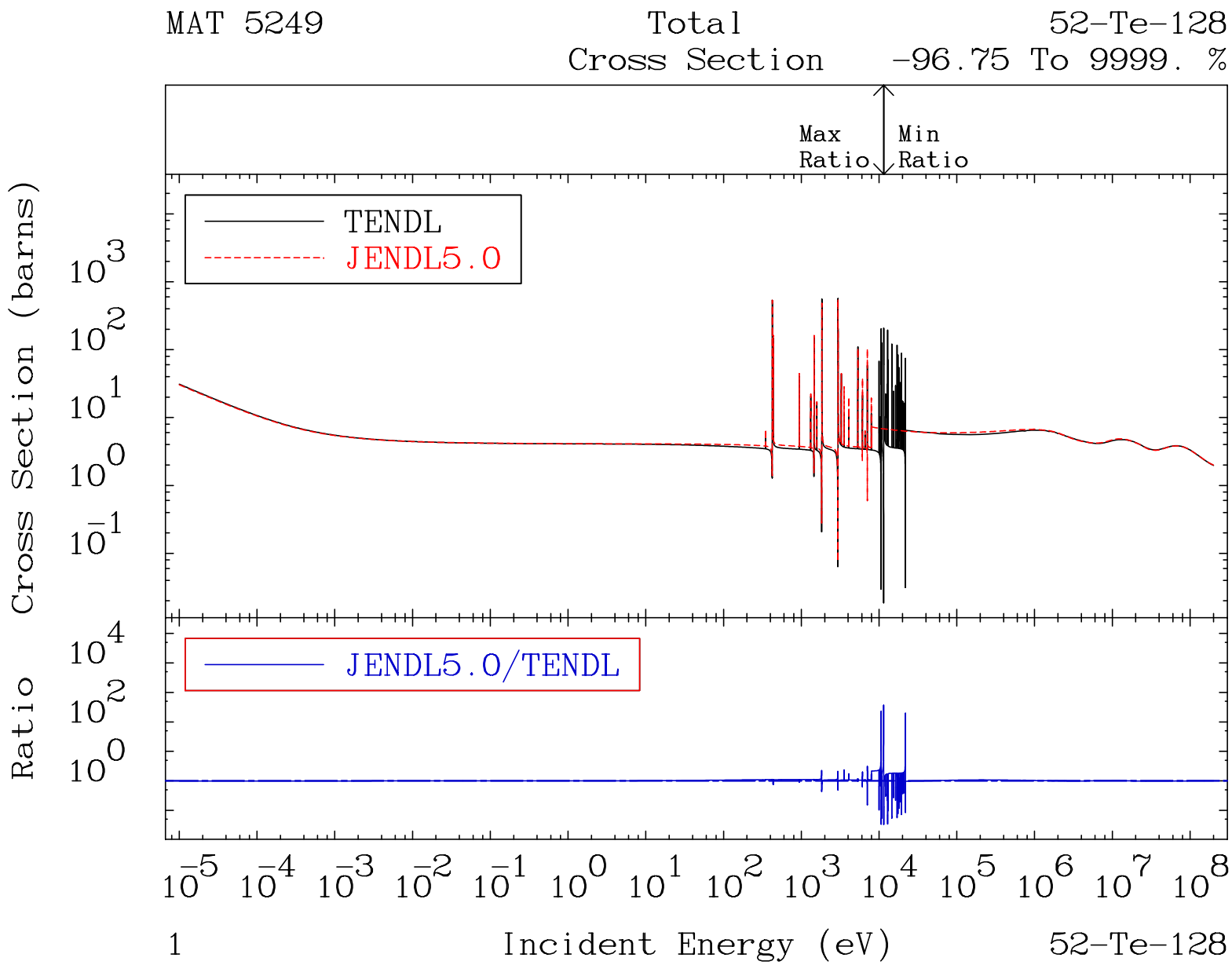
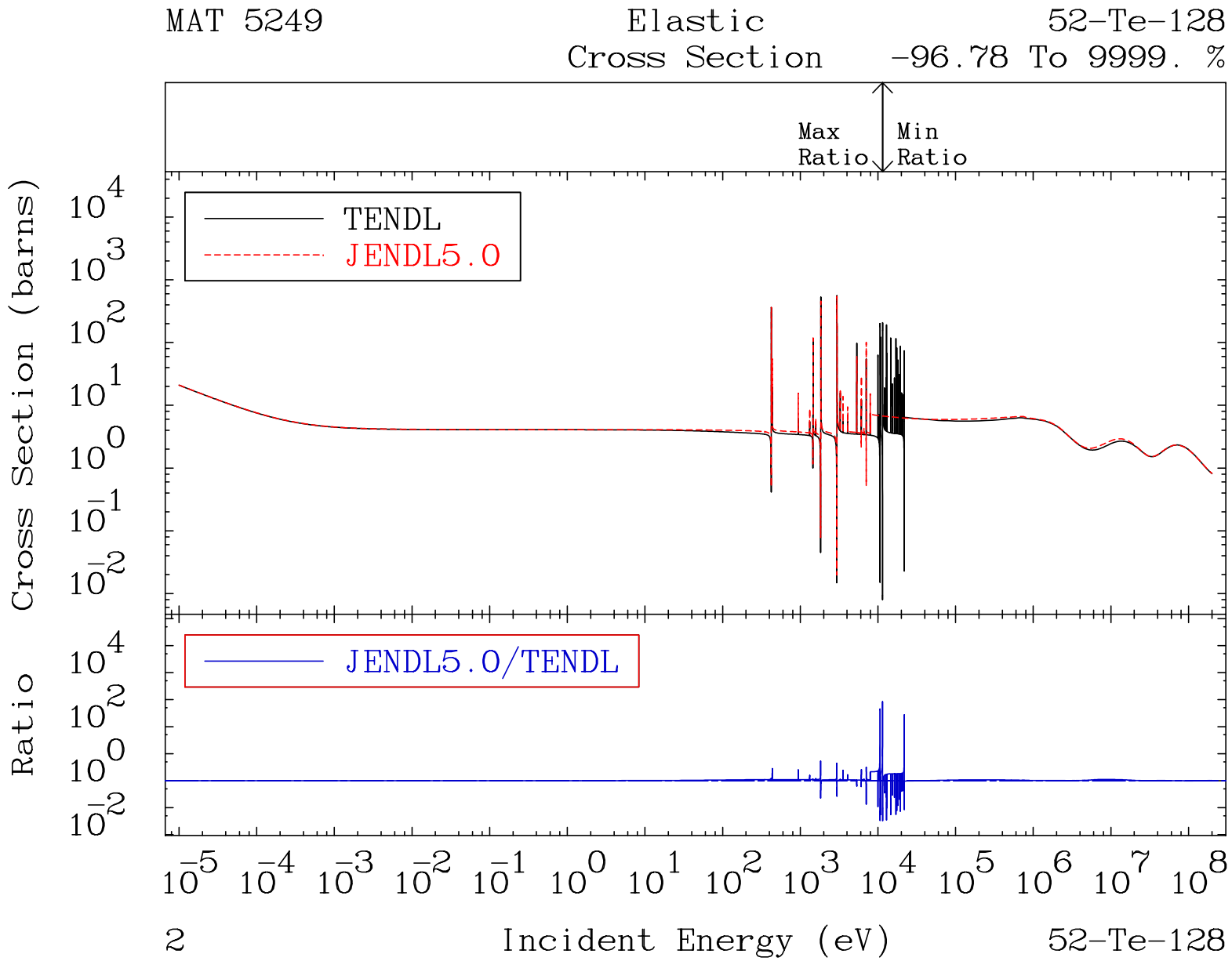
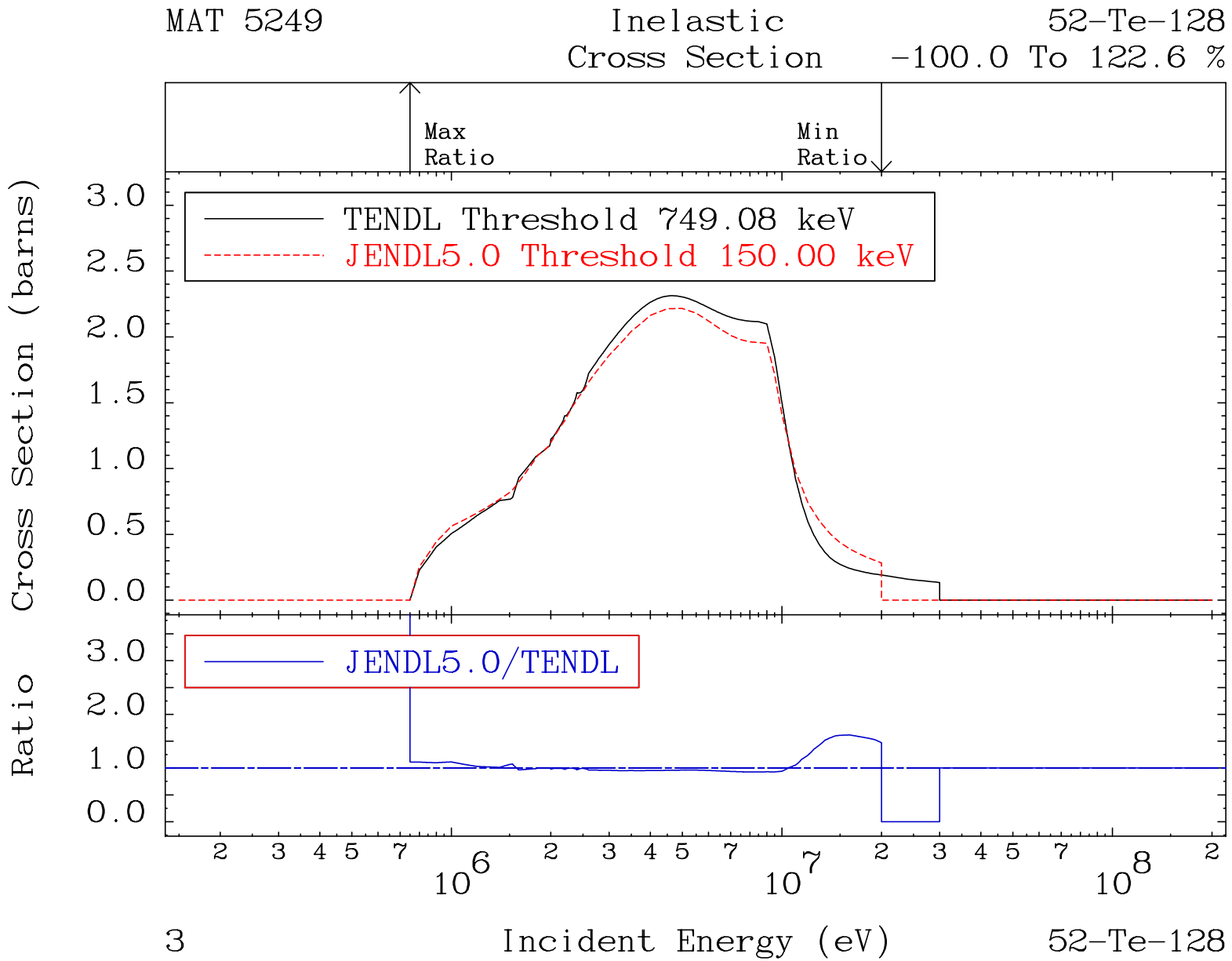
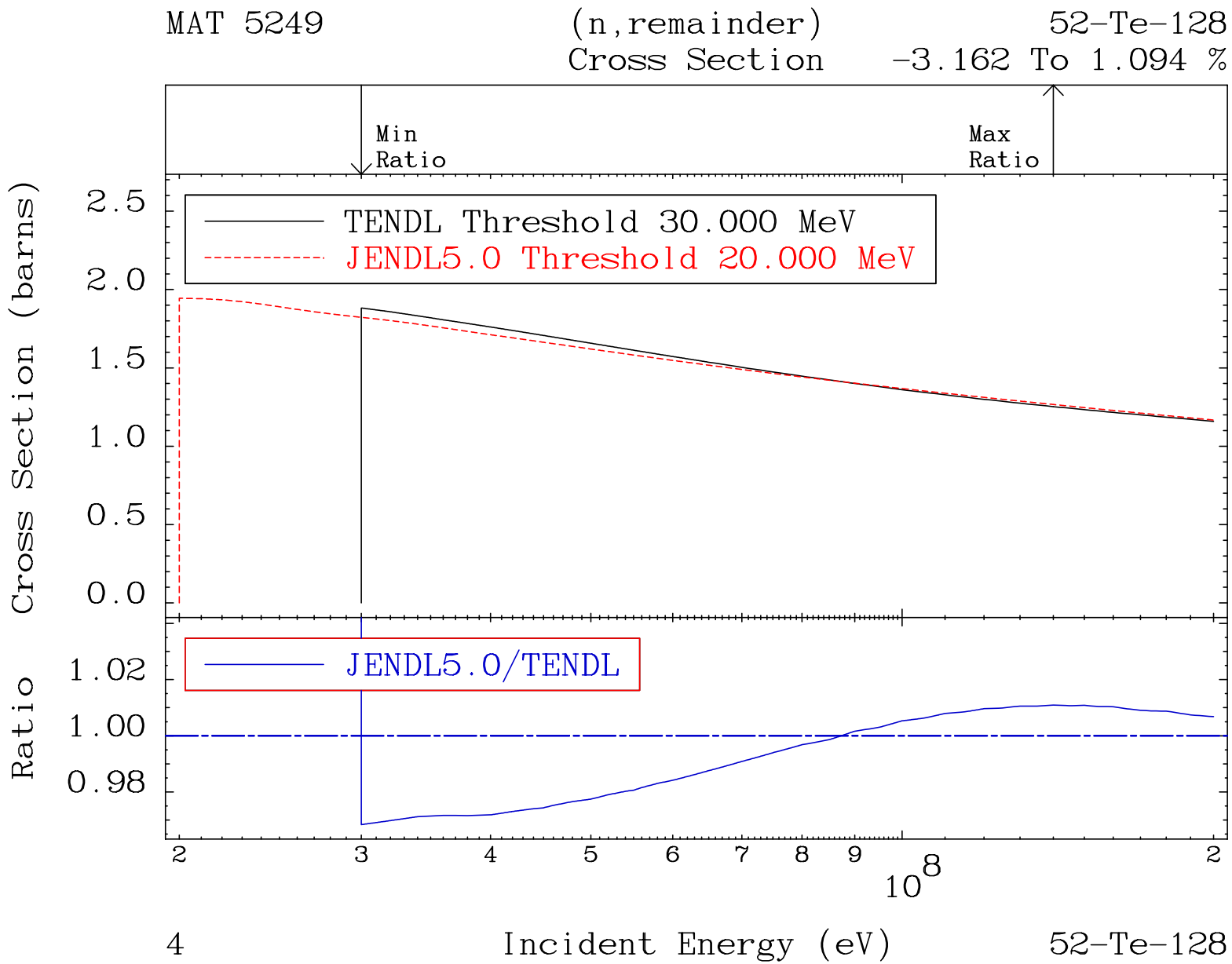
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

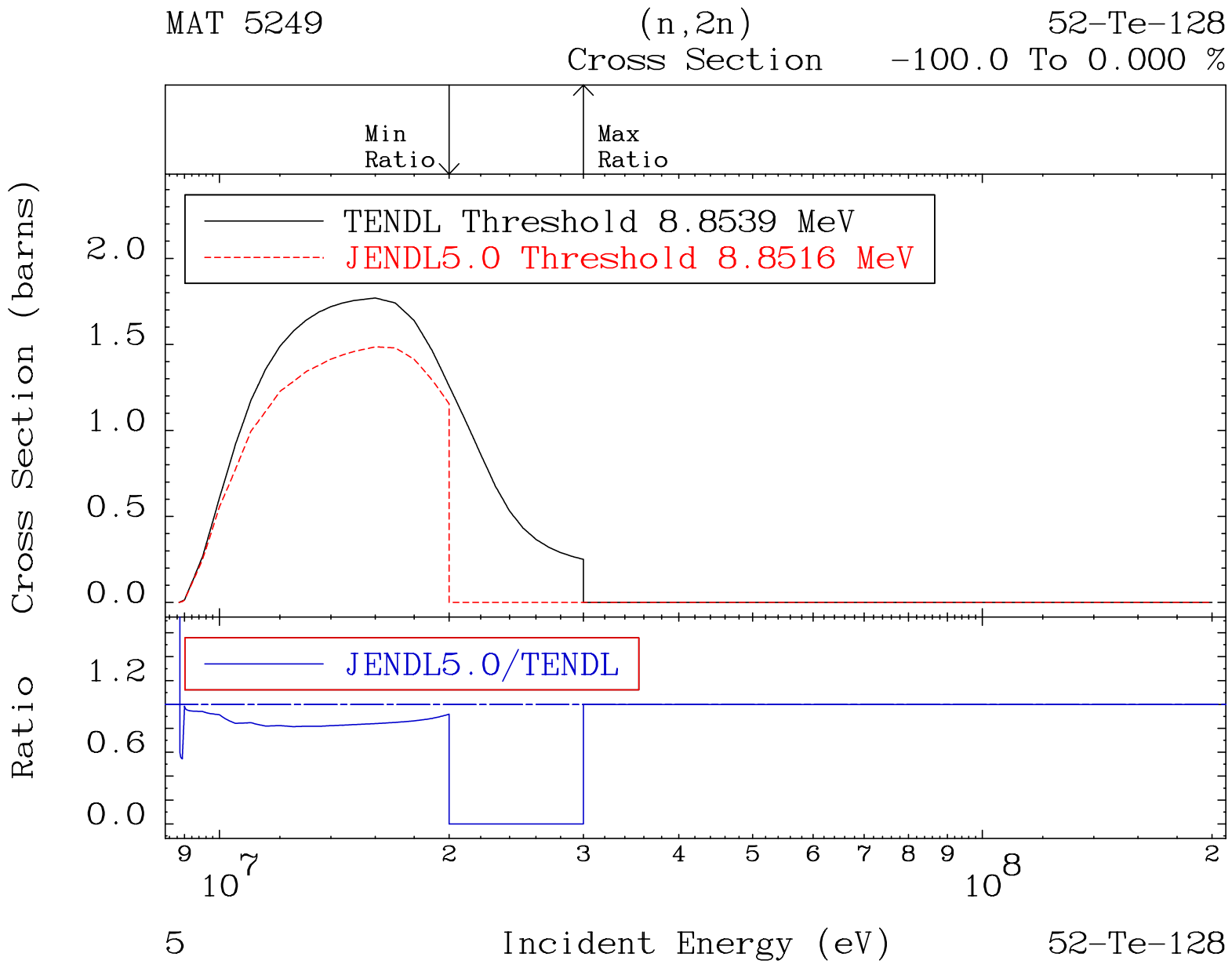
Press Mouse Button to Start

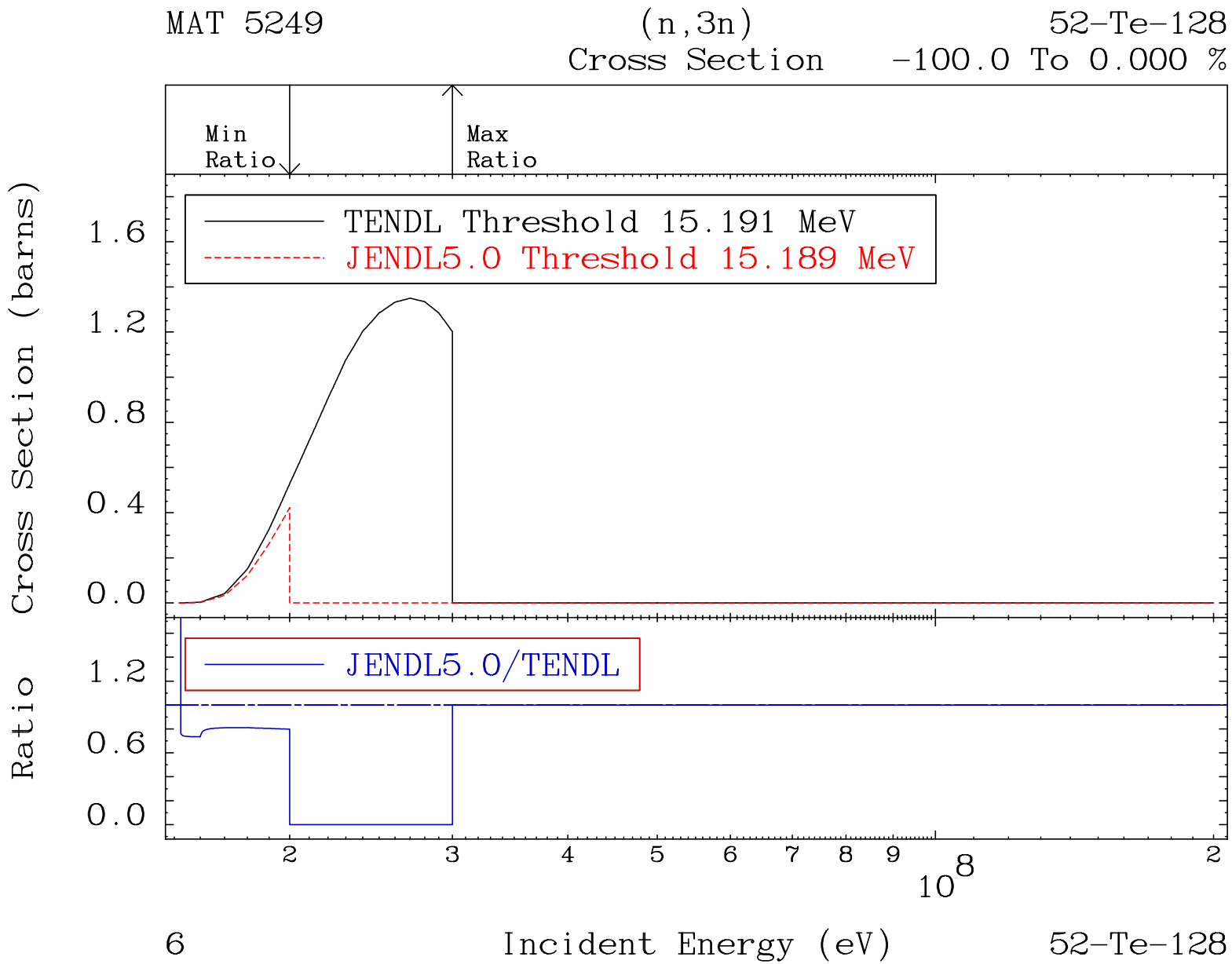

MAT 5249
Total
Cross Section
52-Te-128
-96.75 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
52-Te-128

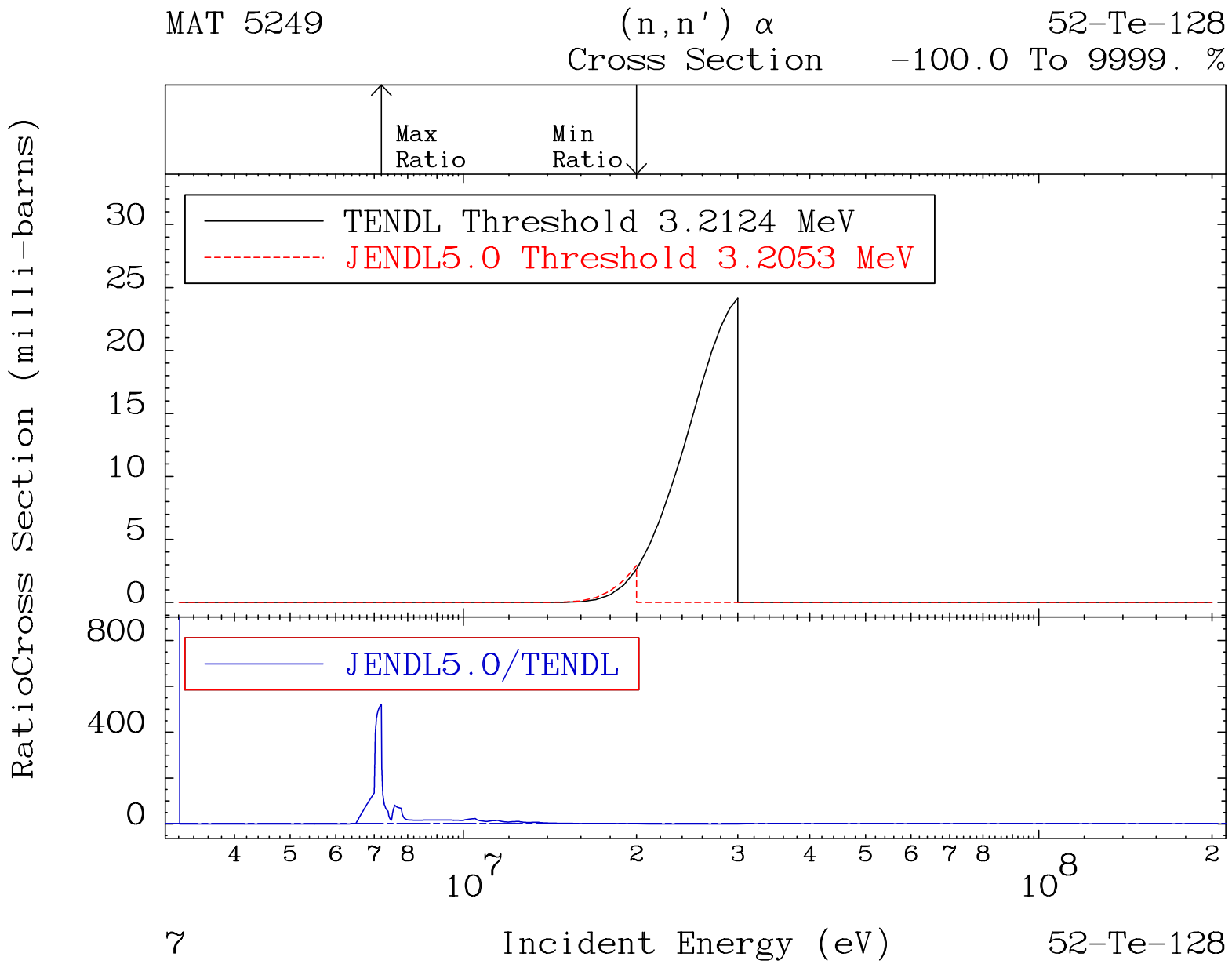

MAT 5249
Elastic
Cross Section
52-Te-128
-96.78 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
52-Te-128

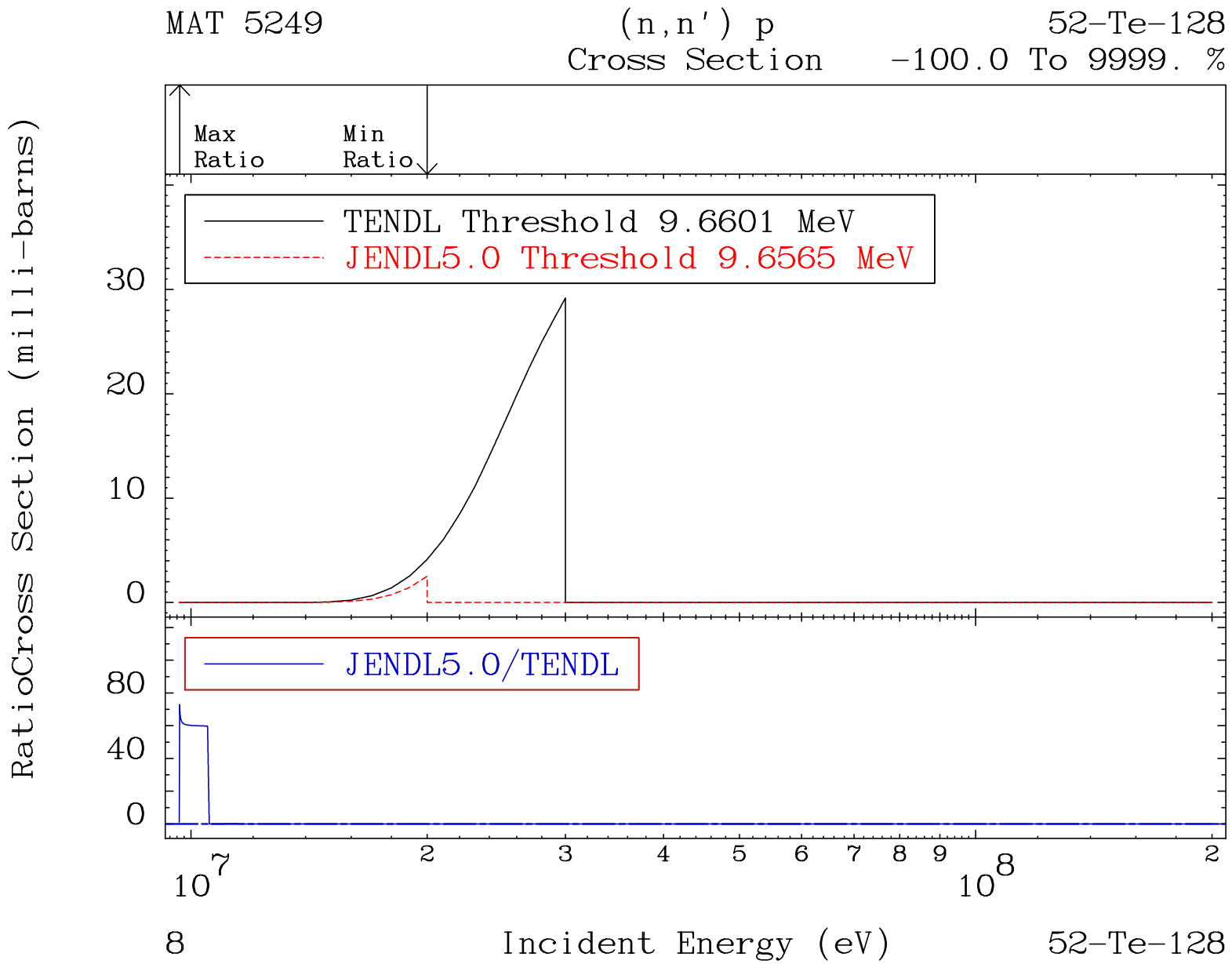

MAT 5249
Inelastic
Cross Section
52-Te-128
-100.0 To 122.6 %
Max
Ratio
Min
Ratio
TENDL Threshold 749.08 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
Incident Energy (eV)
3
52-Te-128

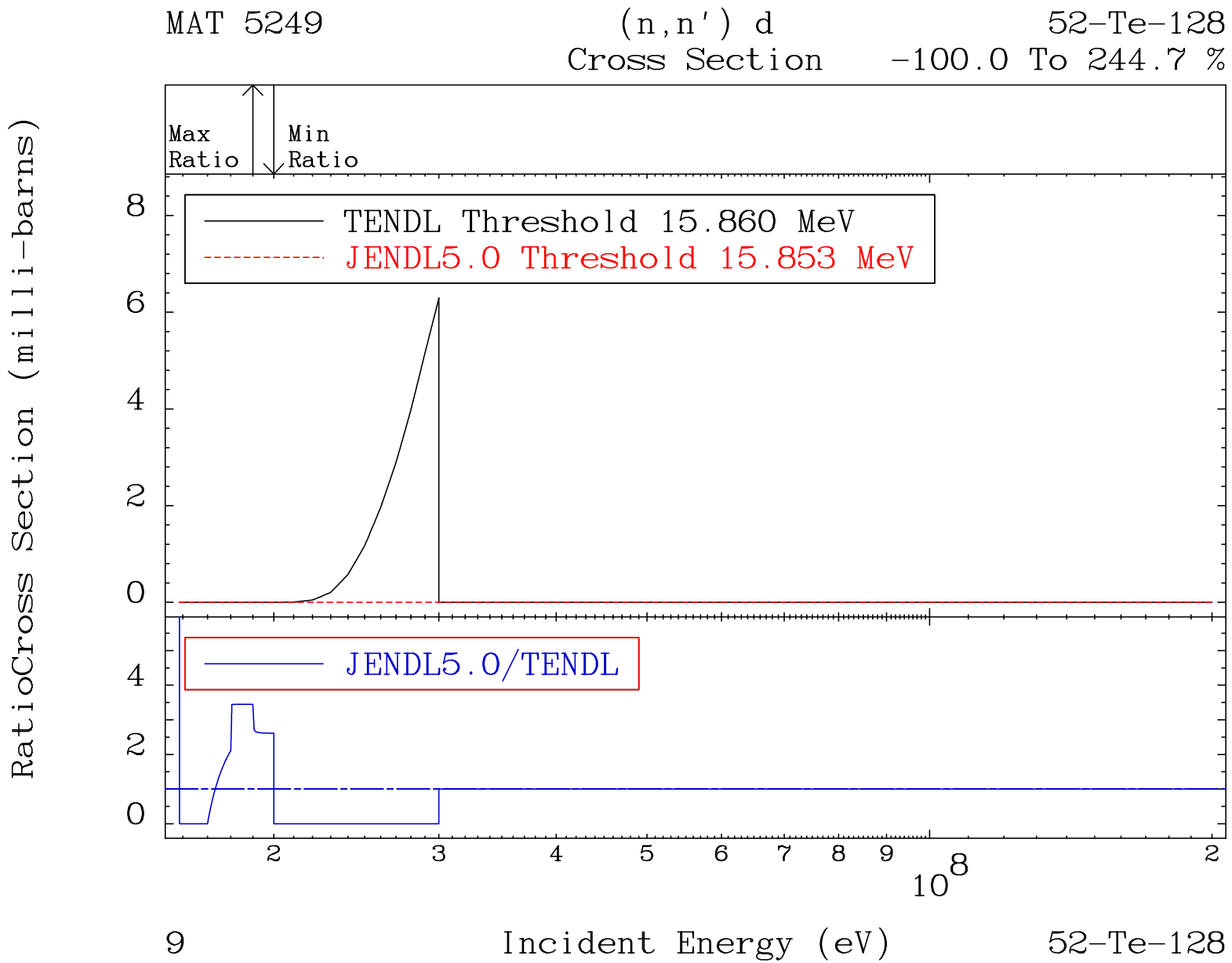

MAT 5249
(n,remainder)
Cross Section
52-Te-128
-3.162 To 1.094 %
Min
Ratio
Max
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
1.02
1.00
0.98
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
52-Te-128

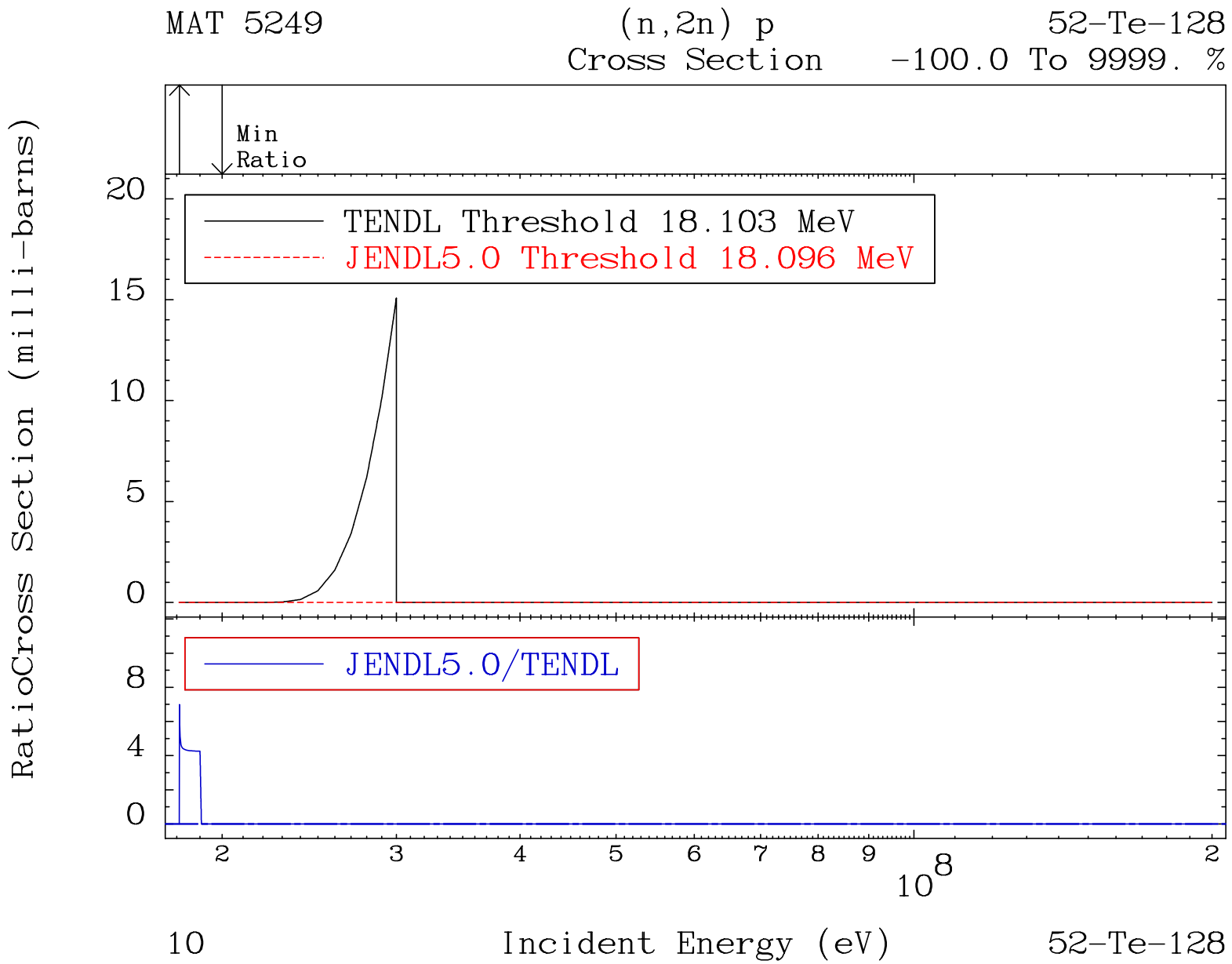

MAT 5249
(n,2n)
Cross Section
52-Te-128
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 8.8539 MeV
JENDL5.0 Threshold 8.8516 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
52-Te-128

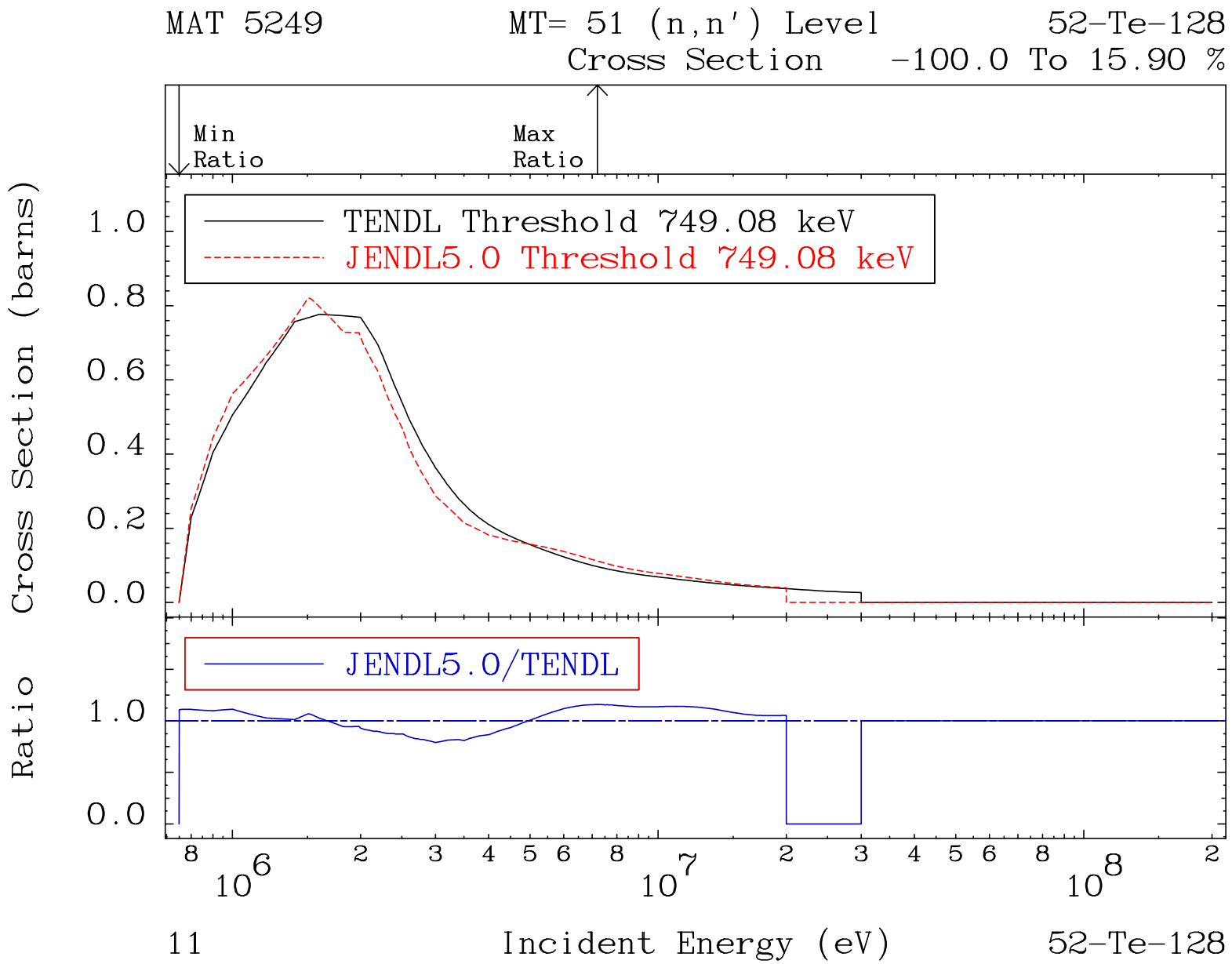

MAT 5249
(n,3n)
52-Te-128
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 15.191 MeV
JENDL5.0 Threshold 15.189 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
52-Te-128

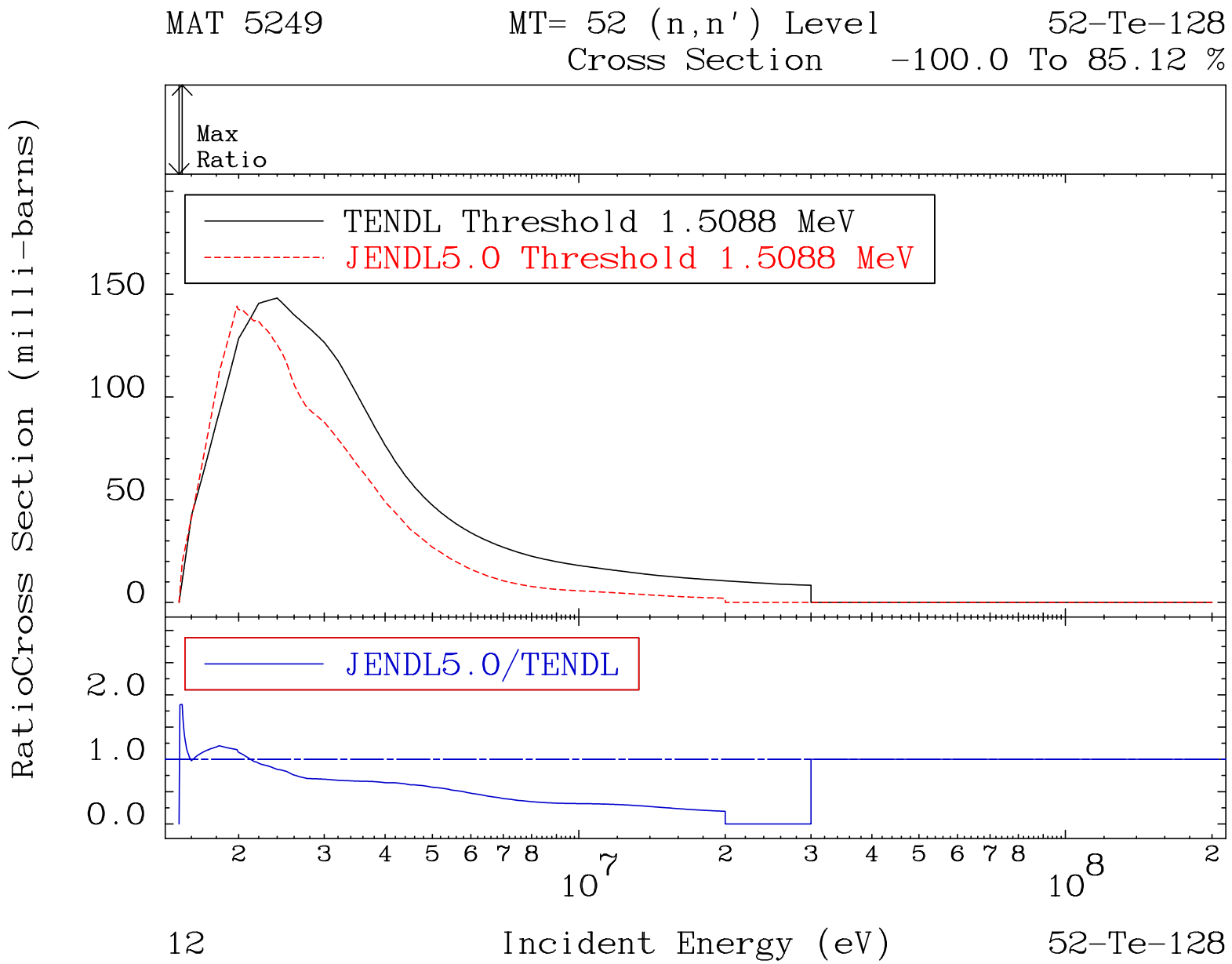

MAT 5249
(n,n') α
Cross Section
52-Te-128
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.2124 MeV
JENDL5.0 Threshold 3.2053 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
800
400
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
52-Te-128

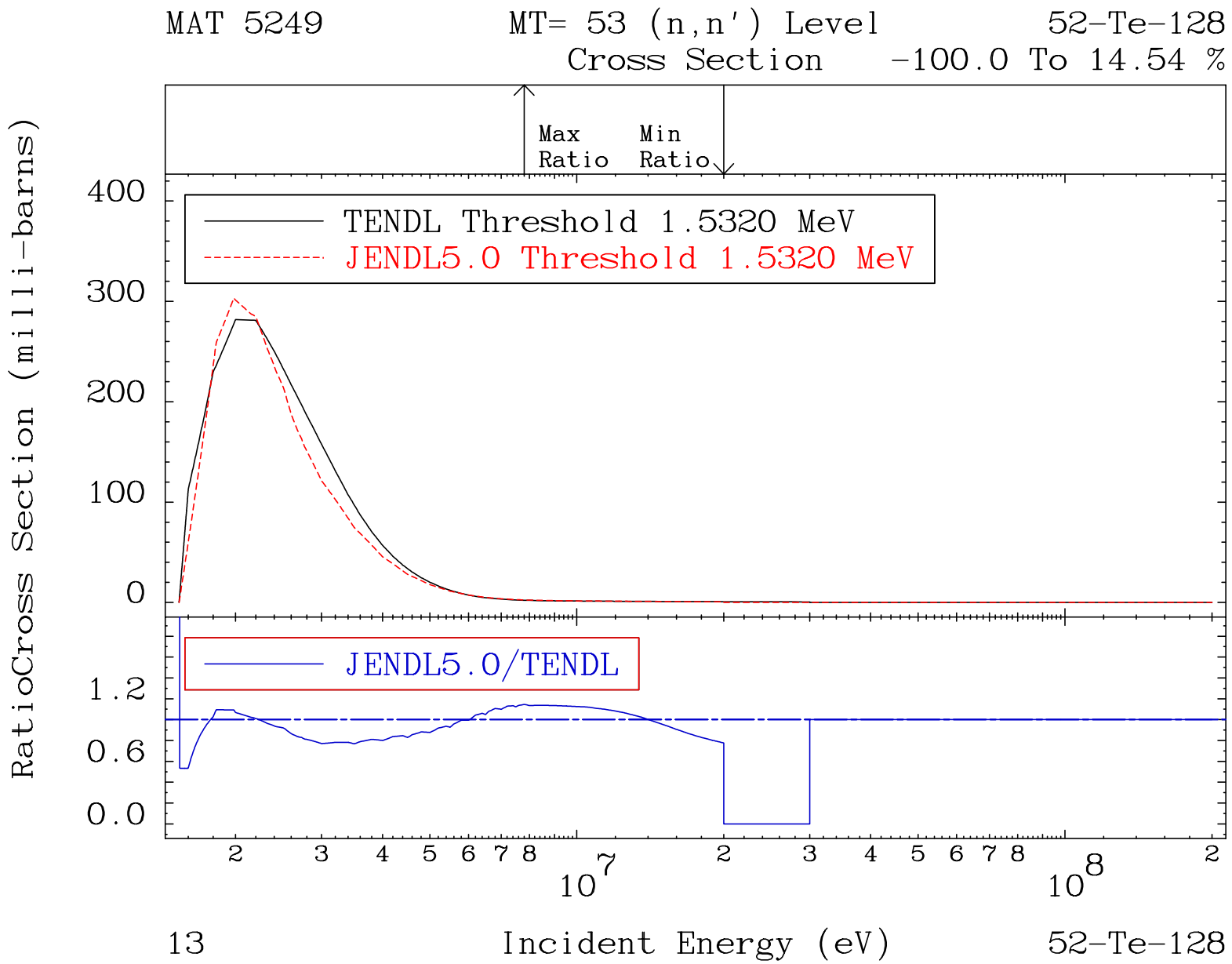

MAT 5249
(n,n') p
Cross Section
52-Te-128
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.6601 MeV
JENDL5.0 Threshold 9.6565 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
80
40
0
$10^7$
2
3
4
5
6
7
8
9
$10^8$
2
Incident Energy (eV)
8
52-Te-128

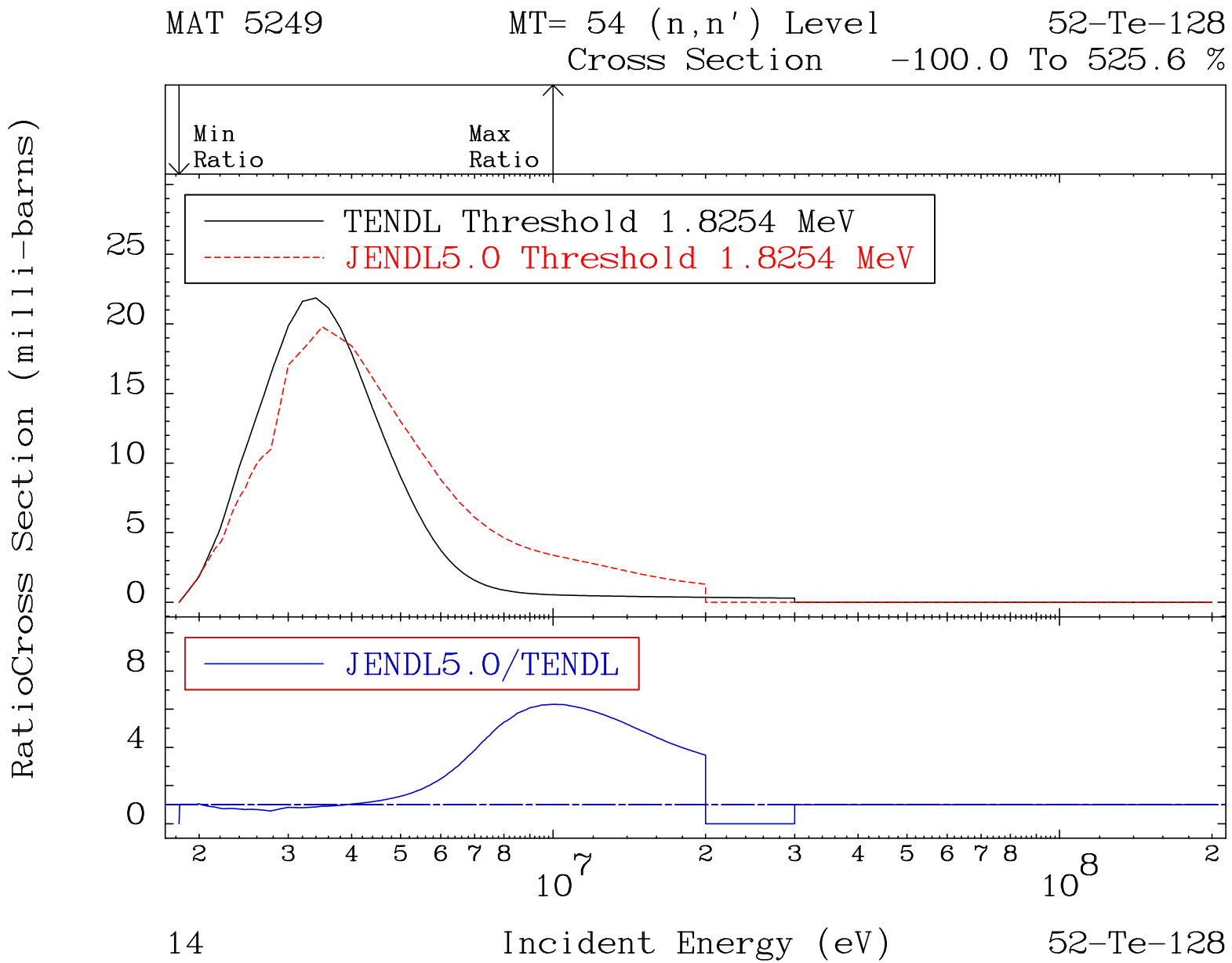

MAT 5249
(n,n') d
Cross Section
52-Te-128
-100.0 To 244.7 %
Max Ratio
Min Ratio
TENDL Threshold 15.860 MeV
JENDL5.0 Threshold 15.853 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
9
52-Te-128

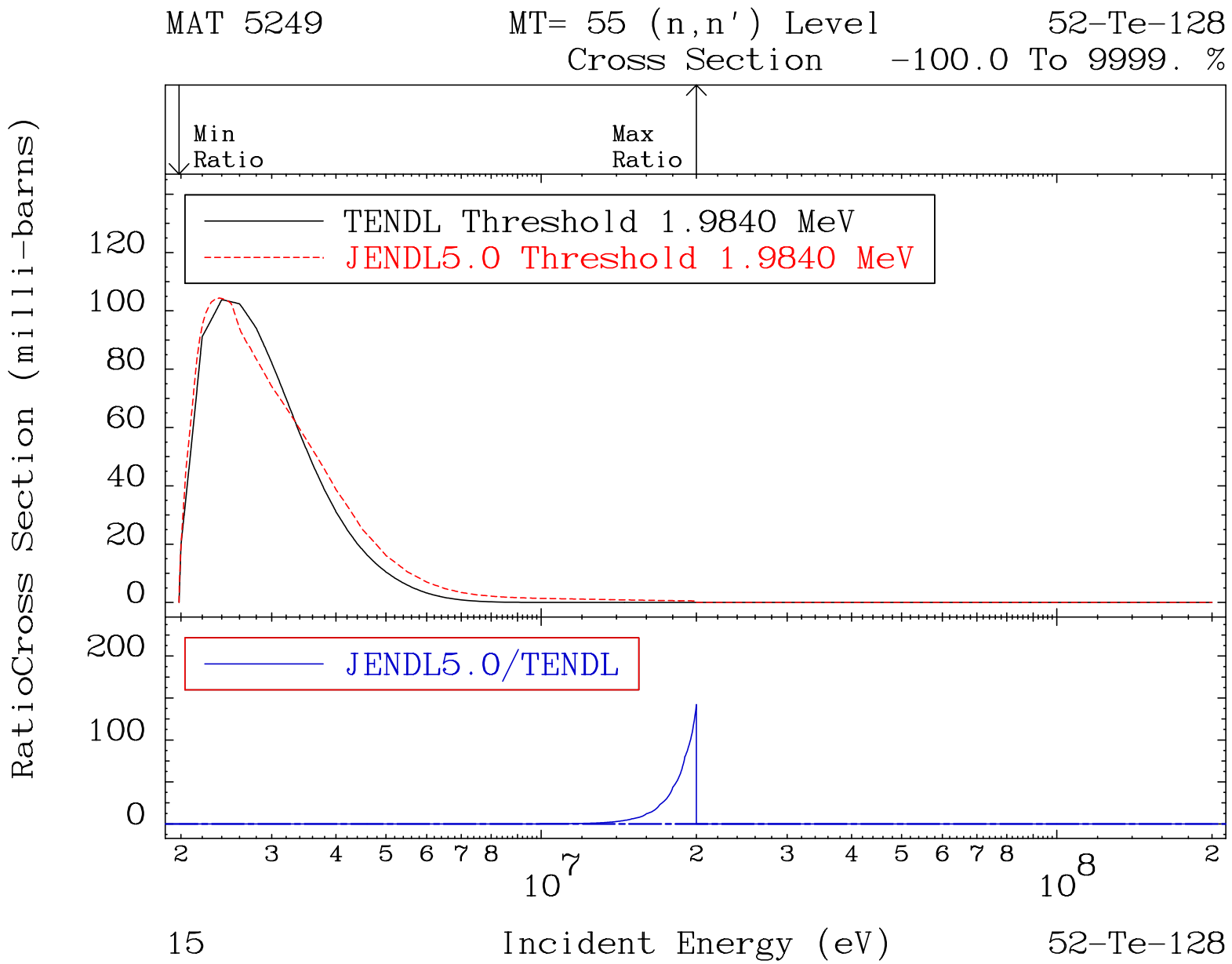

MAT 5249
(n,2n) p
52-Te-128
Cross Section
-100.0 To 9999. %
Min
Ratio
20
15
10
5
0
TENDL Threshold 18.103 MeV
JENDL5.0 Threshold 18.096 MeV
8
4
0
JENDL5.0/TENDL
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
10
Incident Energy (eV)
52-Te-128

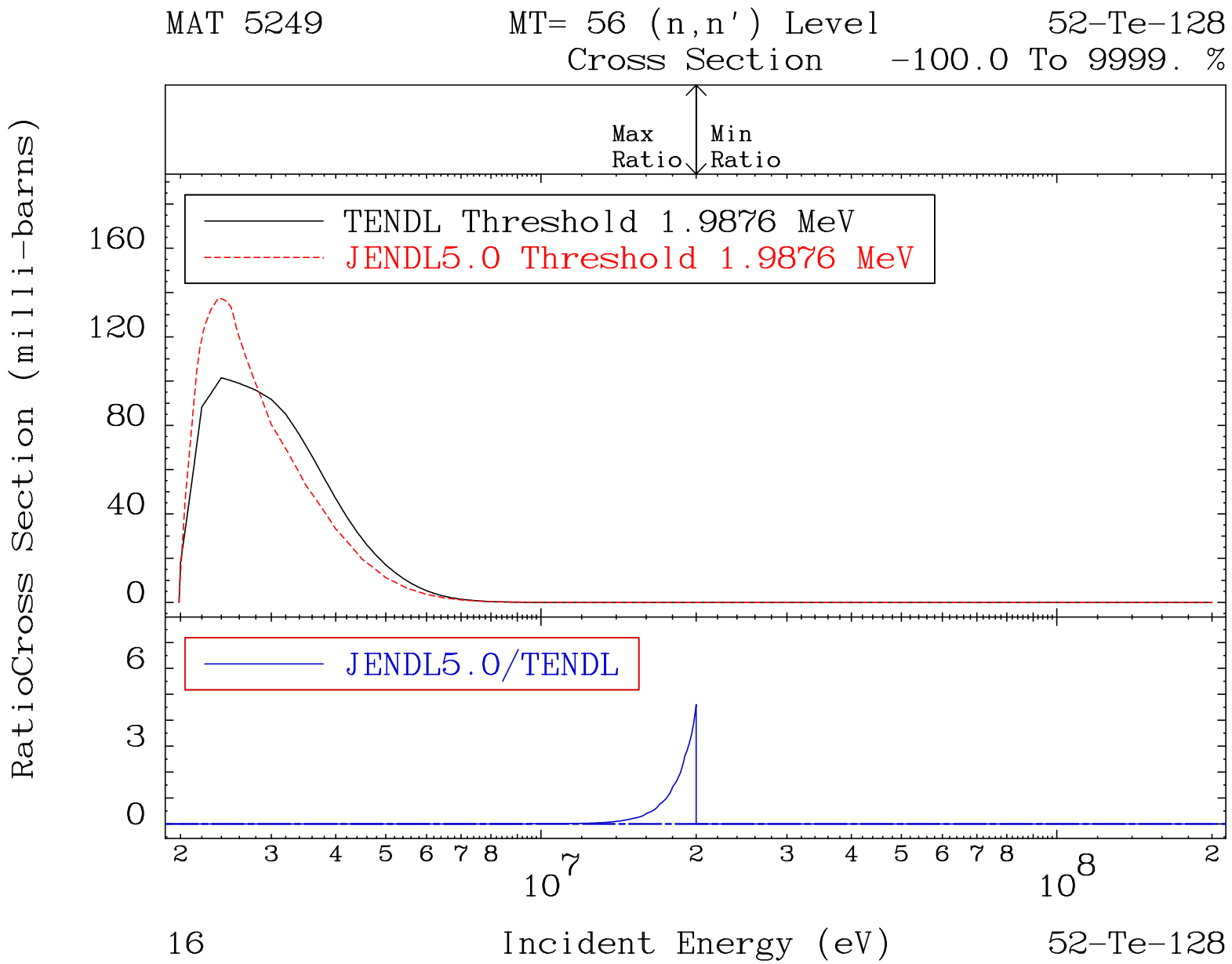

MAT 5249
MT= 51 (n,n') Level
52-Te-128
Cross Section -100.0 To 15.90 %
Min Ratio
Max Ratio
TENDL Threshold 749.08 keV
JENDL5.0 Threshold 749.08 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
1.0
0.0
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
11
Incident Energy (eV)
52-Te-128

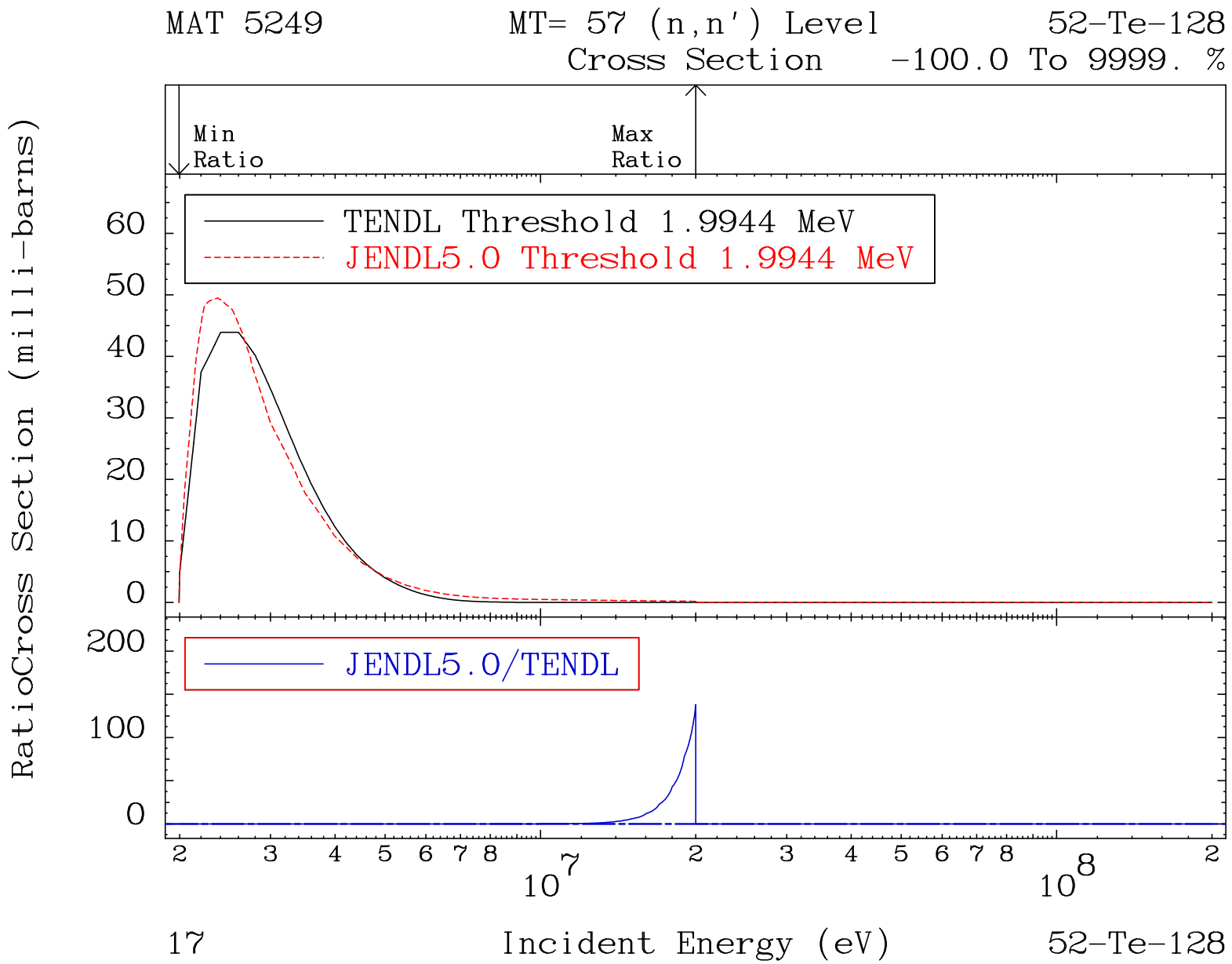

MAT 5249
MT= 52 (n,n') Level
52-Te-128
Cross Section
-100.0 To 85.12 %
Max
Ratio
TENDL Threshold 1.5088 MeV
JENDL5.0 Threshold 1.5088 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
2.0
1.0
0.0
2
3
4
5
6
7
8
10^7
10^8
12
Incident Energy (eV)
52-Te-128

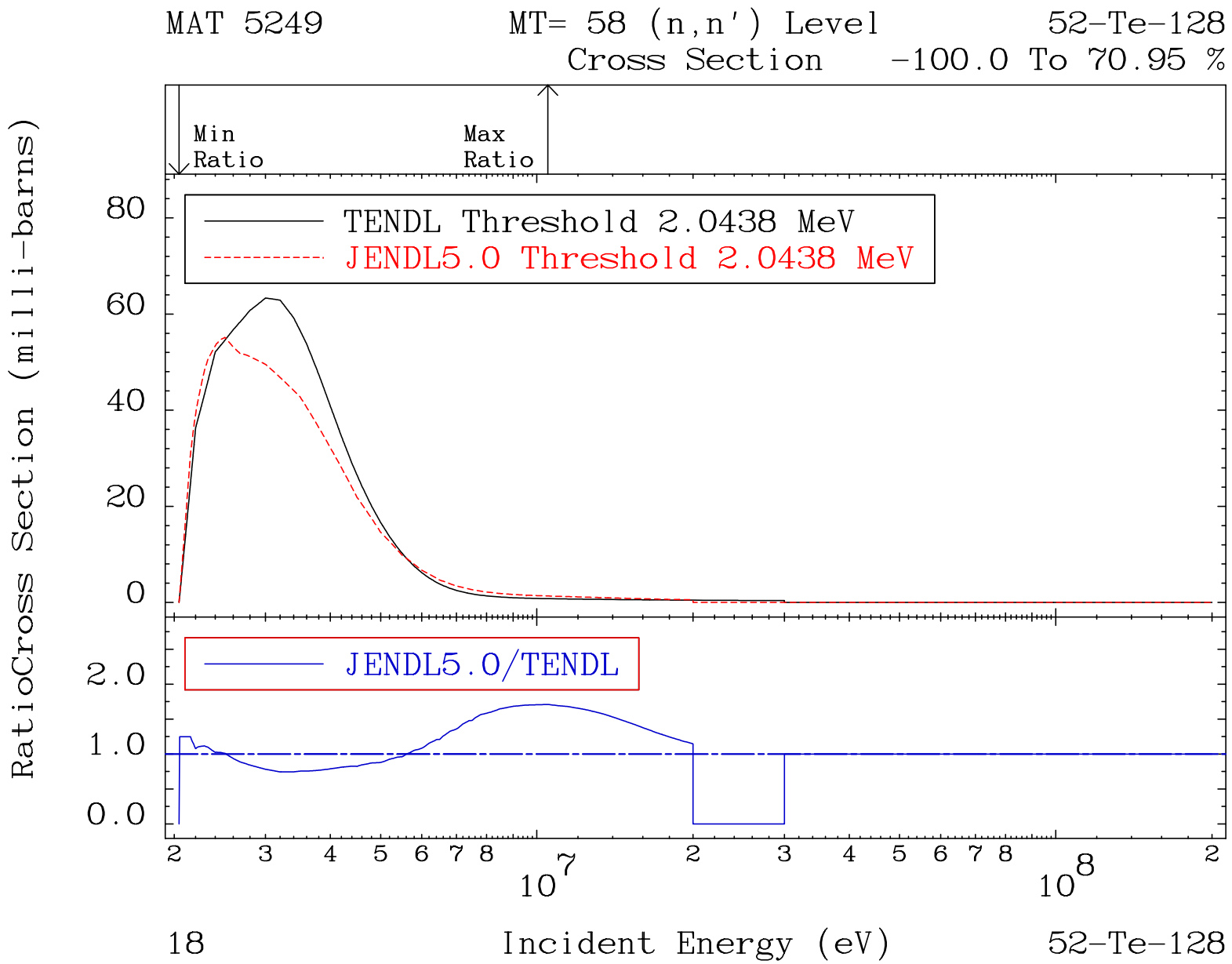

MAT 5249
MT= 53 (n,n') Level
52-Te-128
Cross Section
-100.0 To 14.54 %
Max Ratio
Min Ratio
TENDL Threshold 1.5320 MeV
JENDL5.0 Threshold 1.5320 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
52-Te-128

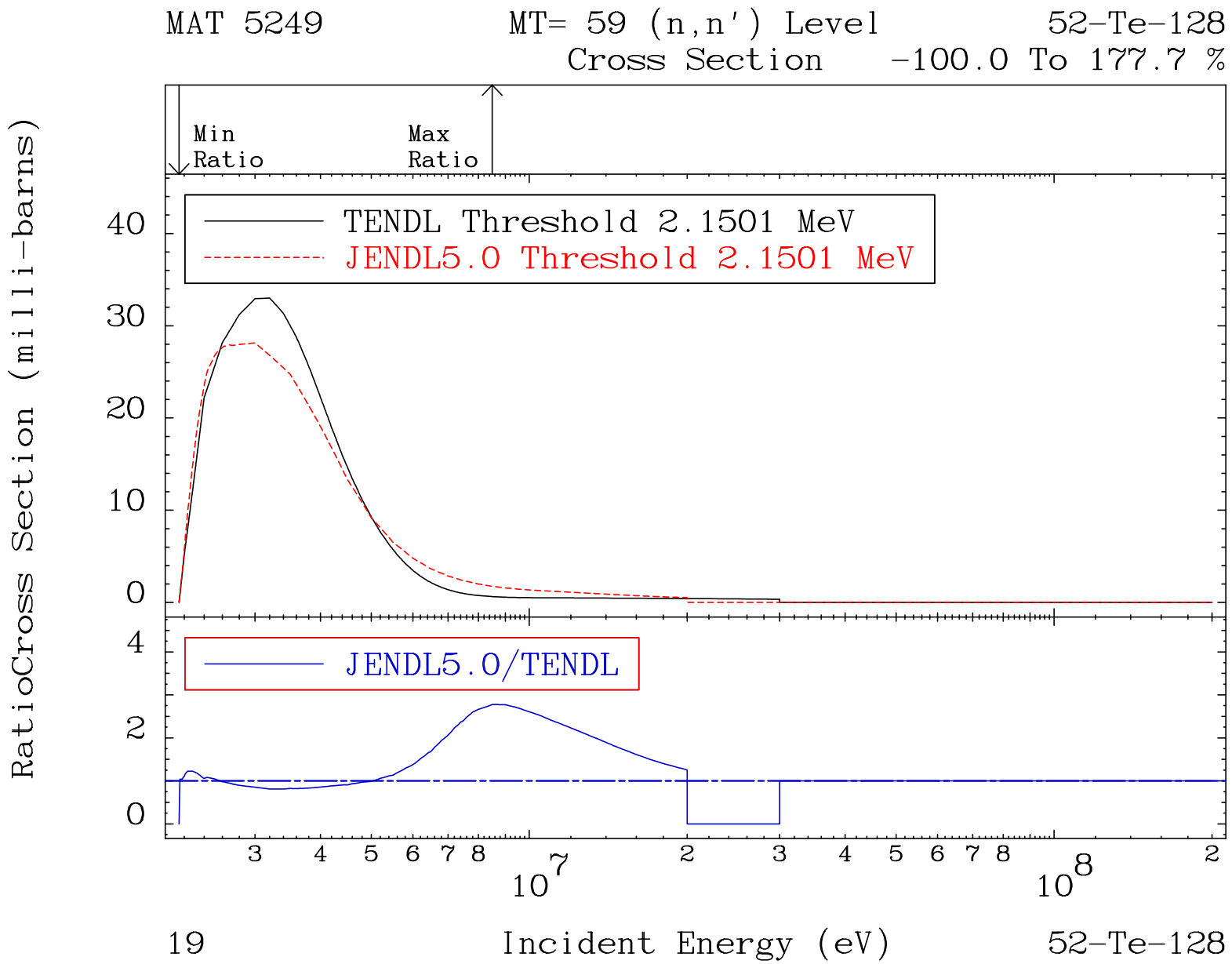

MAT 5249
MT= 54 (n,n') Level
52-Te-128
Cross Section
-100.0 To 525.6 %
Min Ratio
Max Ratio
TENDL Threshold 1.8254 MeV
JENDL5.0 Threshold 1.8254 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
52-Te-128

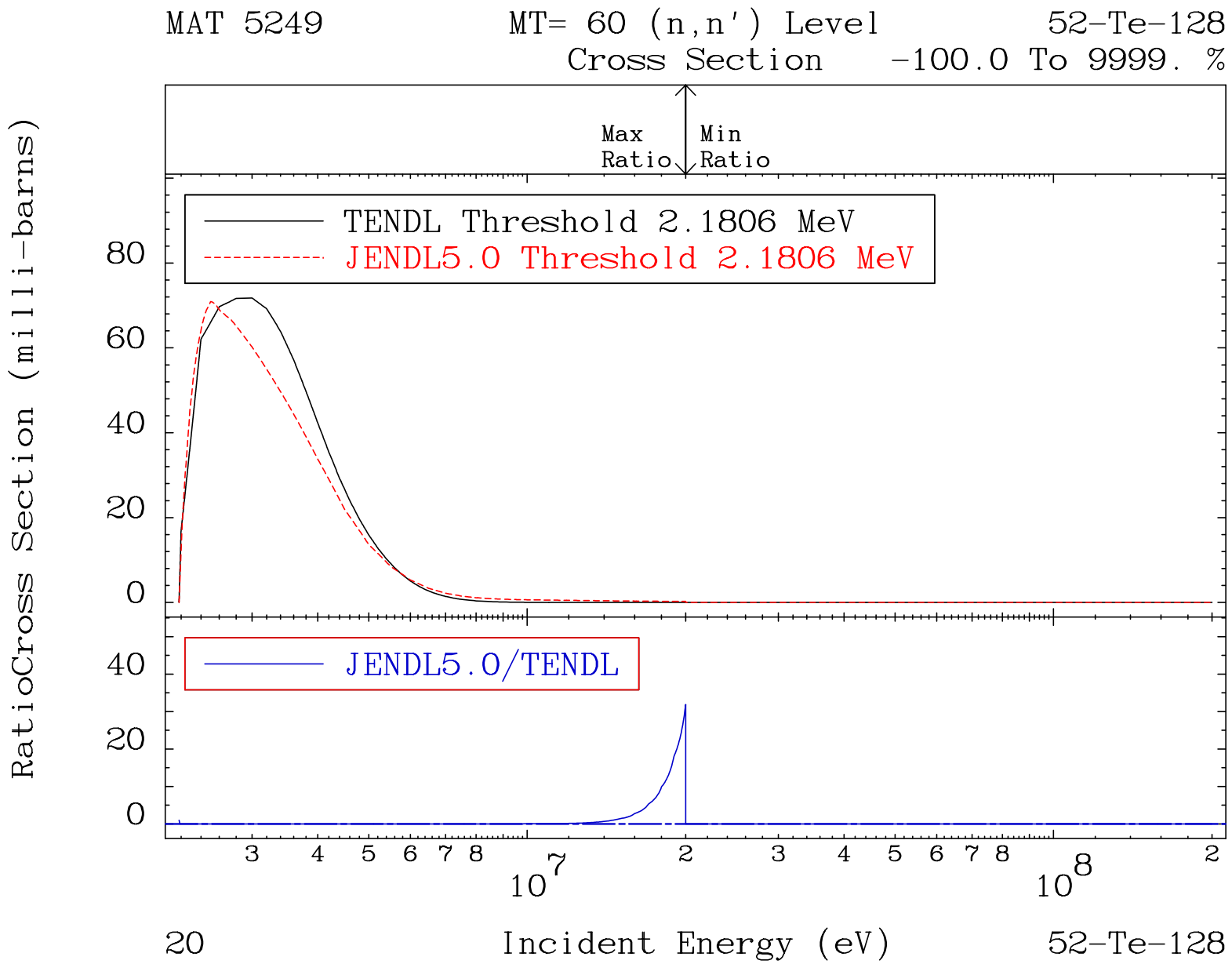

MAT 5249
MT= 55 (n,n') Level
52-Te-128
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.9840 MeV
JENDL5.0 Threshold 1.9840 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
200
100
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
52-Te-128

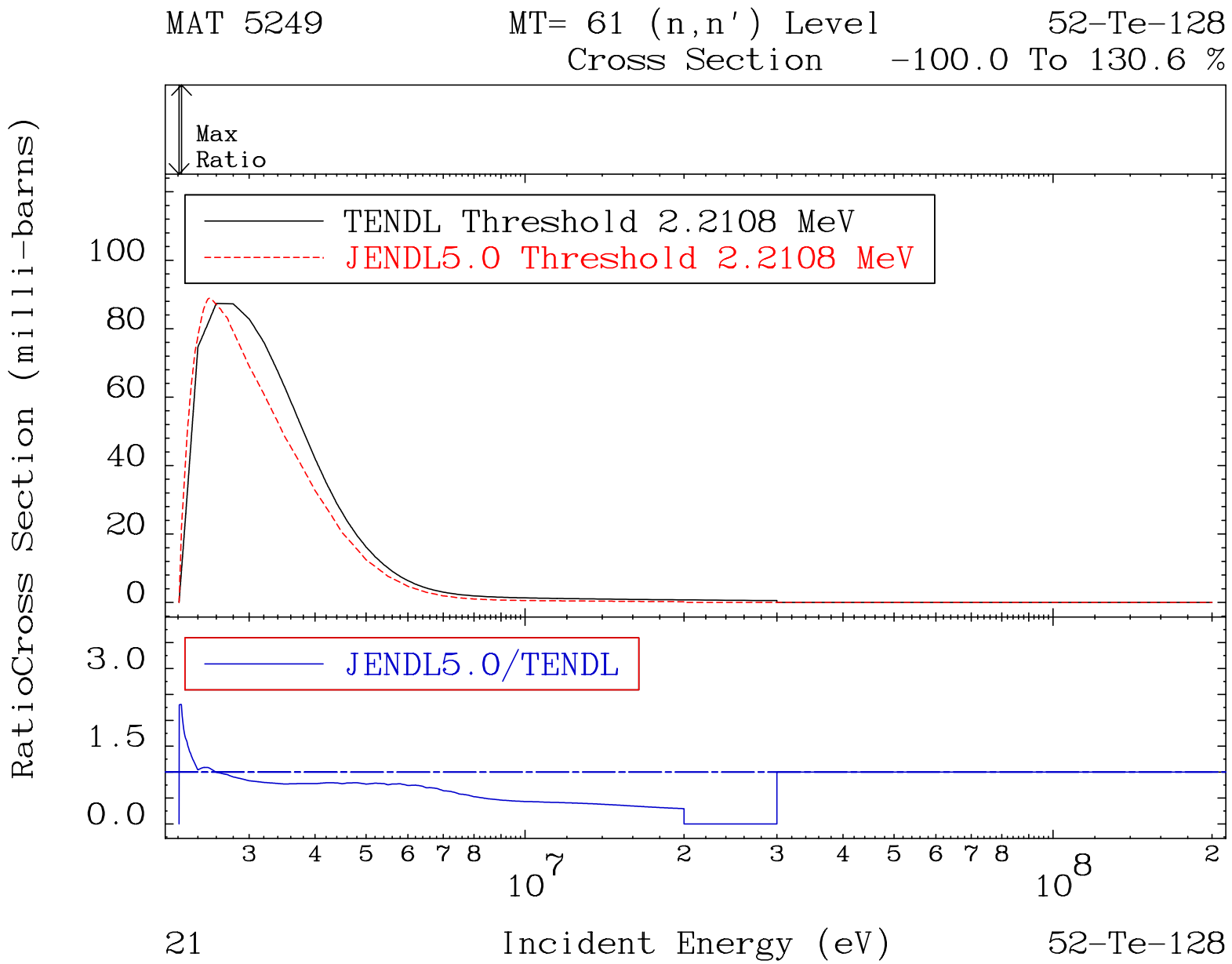

MAT 5249
MT= 56 (n,n') Level
52-Te-128
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.9876 MeV
JENDL5.0 Threshold 1.9876 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
6
3
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
52-Te-128

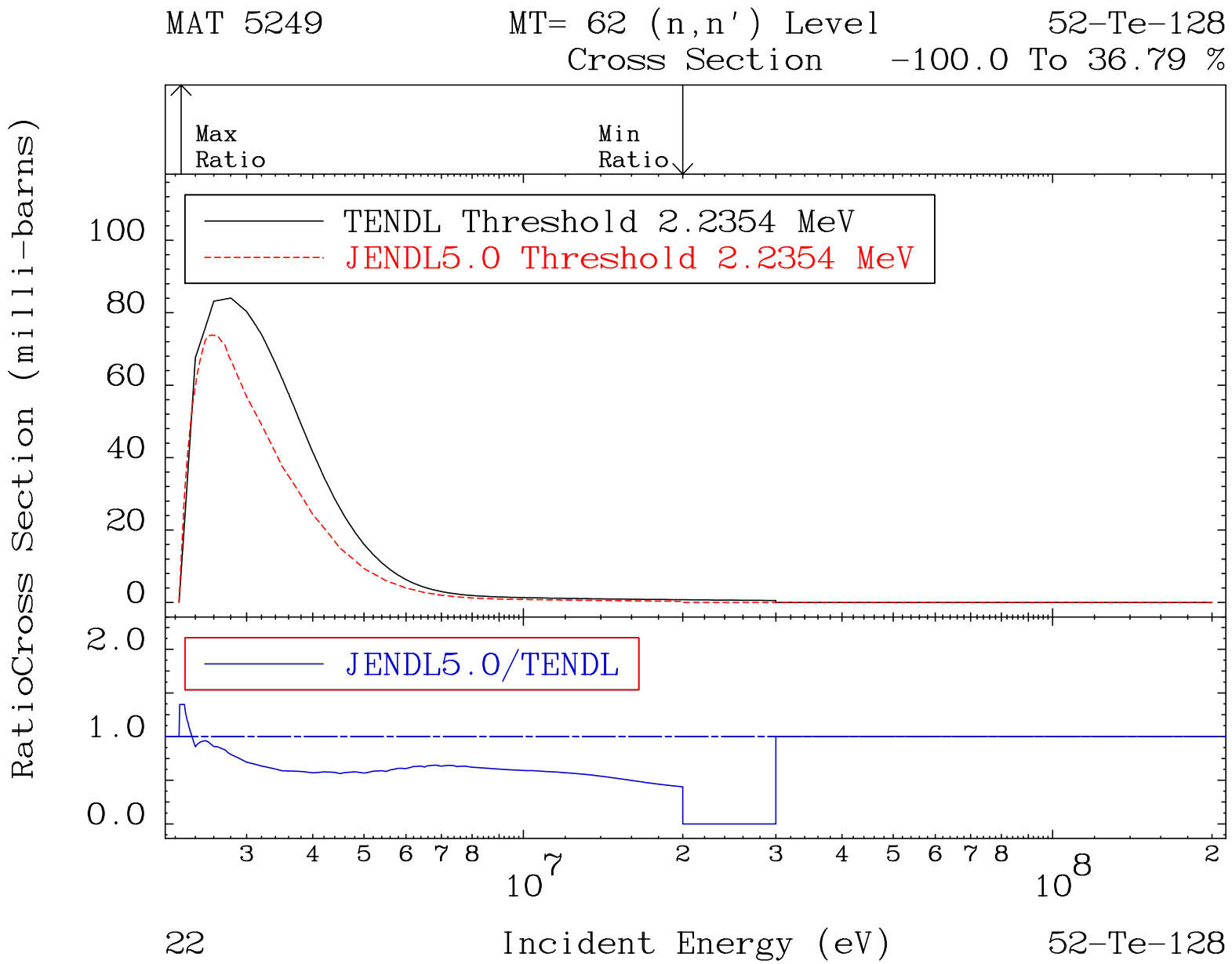

MAT 5249
MT= 57 (n,n') Level
52-Te-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.9944 MeV
JENDL5.0 Threshold 1.9944 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
200
100
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
52-Te-128

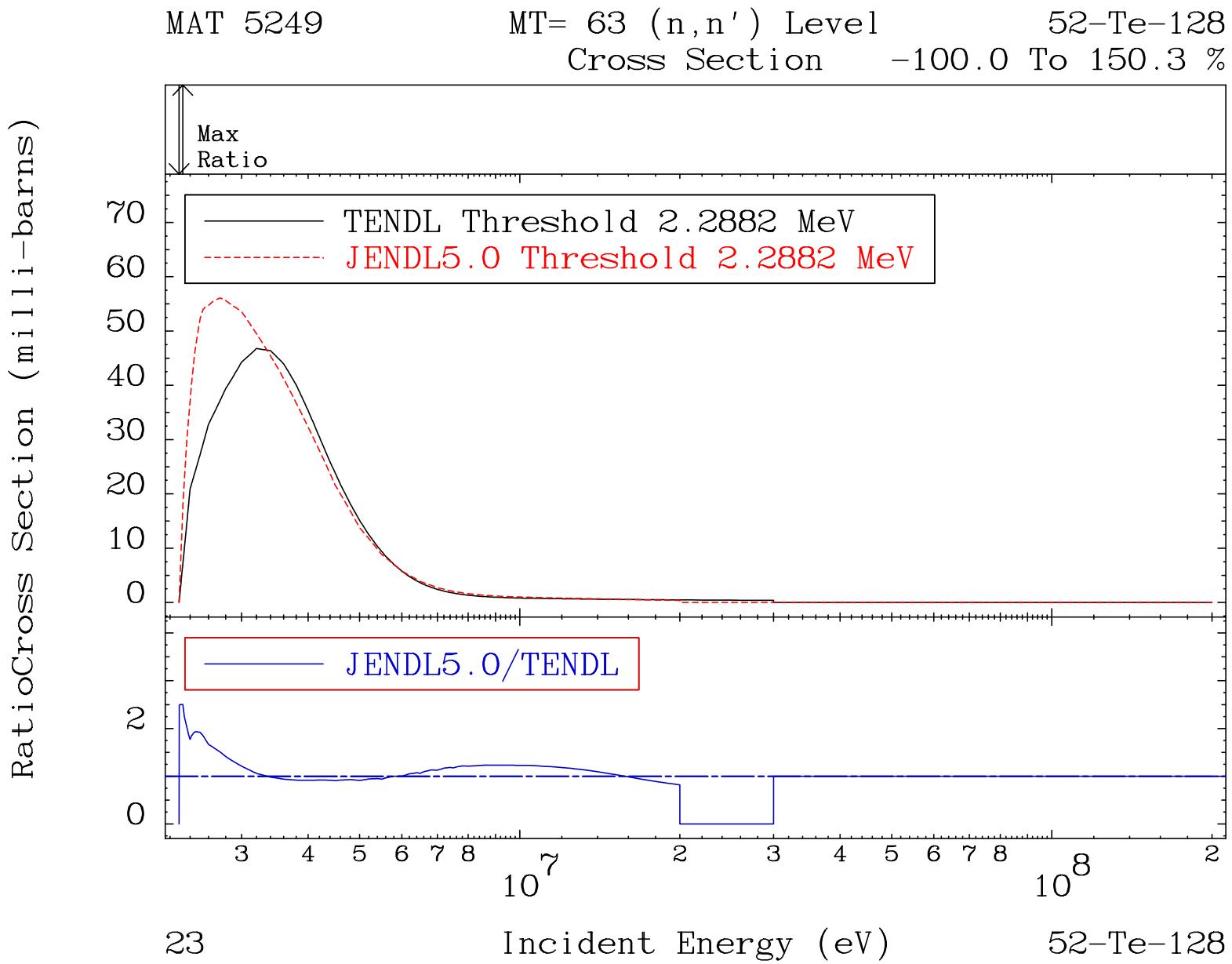

MAT 5249
MT= 58 (n,n') Level
52-Te-128
Cross Section
-100.0 To 70.95 %
Min Ratio
Max Ratio
TENDL Threshold 2.0438 MeV
JENDL5.0 Threshold 2.0438 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
52-Te-128

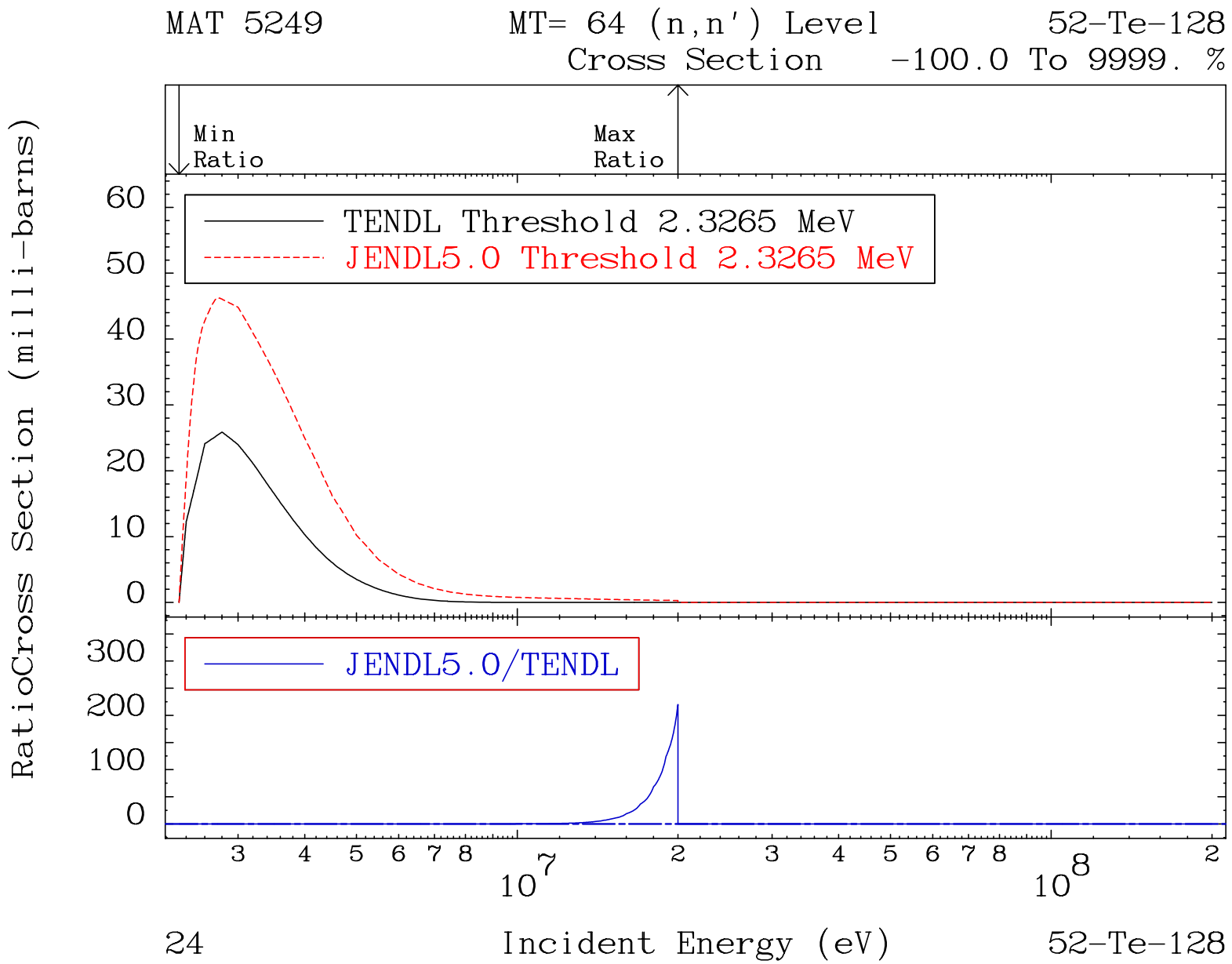

MAT 5249
MT= 59 (n,n') Level
52-Te-128
Cross Section
-100.0 To 177.7 %
Min Ratio
Max Ratio
TENDL Threshold 2.1501 MeV
JENDL5.0 Threshold 2.1501 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
52-Te-128

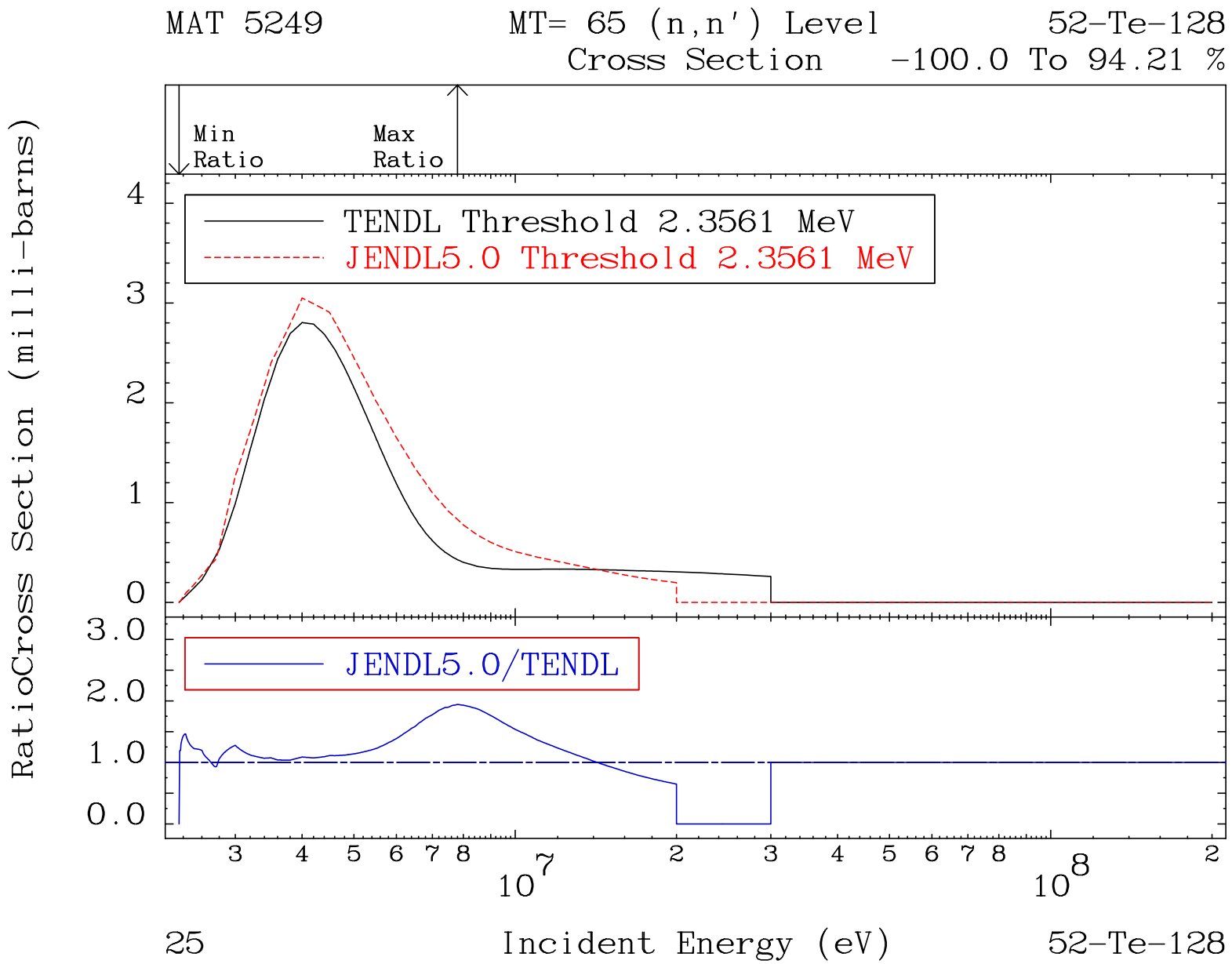

MAT 5249
MT= 60 (n,n') Level
52-Te-128
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.1806 MeV
JENDL5.0 Threshold 2.1806 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
40
20
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
52-Te-128

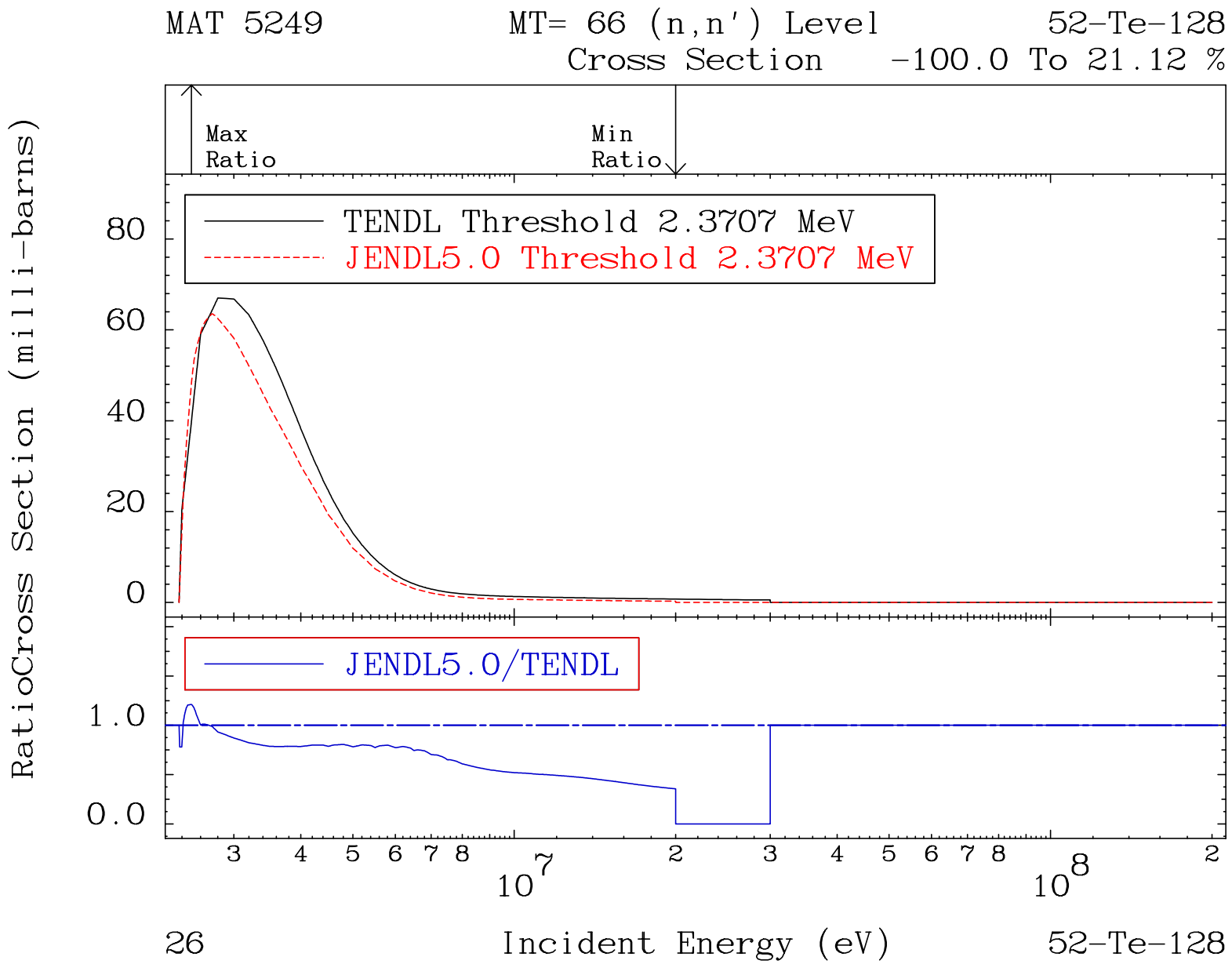

MAT 5249
MT= 61 (n,n') Level
52-Te-128
Cross Section
-100.0 To 130.6 %
Max
Ratio
TENDL Threshold 2.2108 MeV
JENDL5.0 Threshold 2.2108 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
3.0
1.5
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
52-Te-128

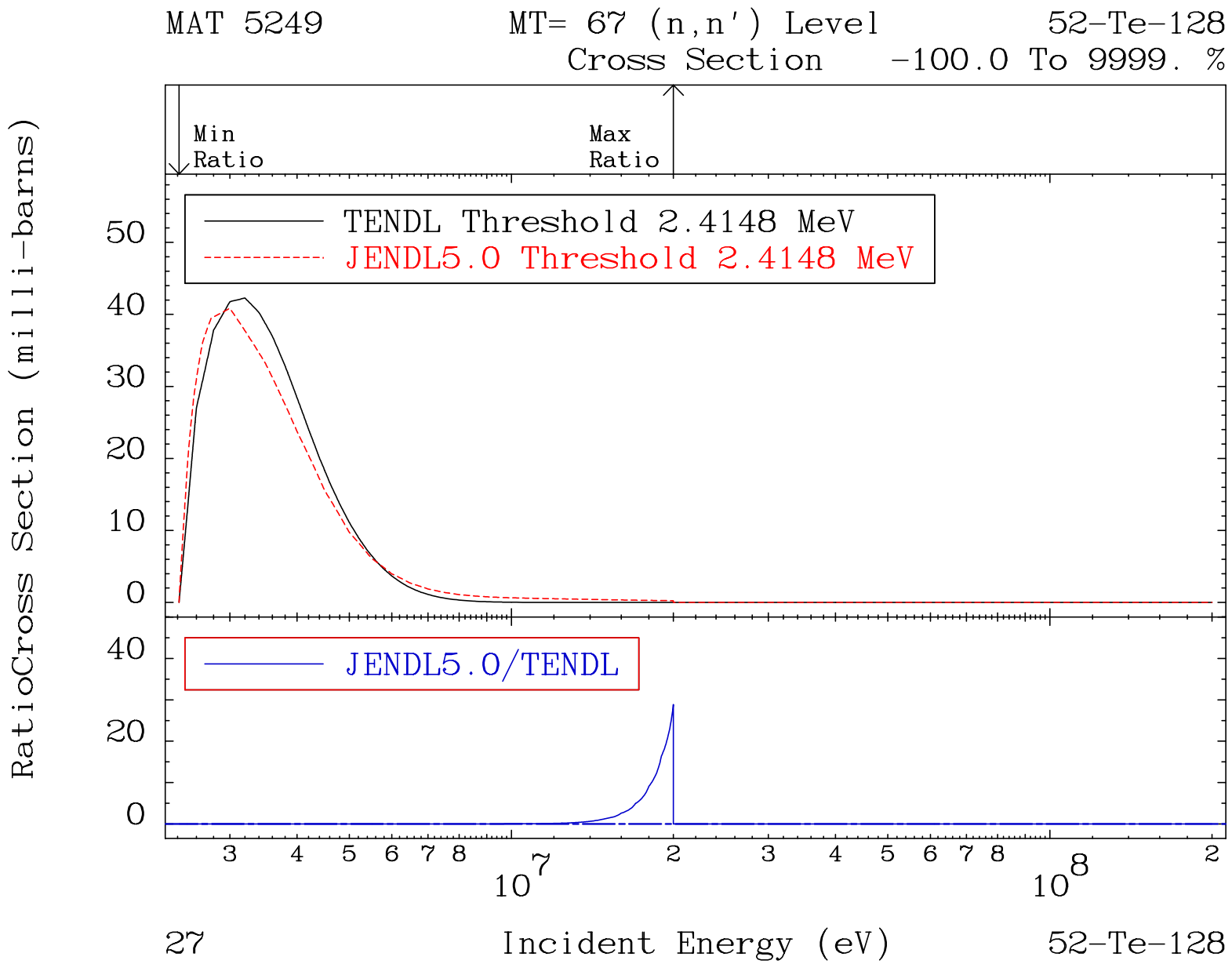

MAT 5249
MT= 62 (n,n') Level
52-Te-128
Cross Section
-100.0 To 36.79 %
Max Ratio
Min Ratio
TENDL Threshold 2.2354 MeV
JENDL5.0 Threshold 2.2354 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
52-Te-128

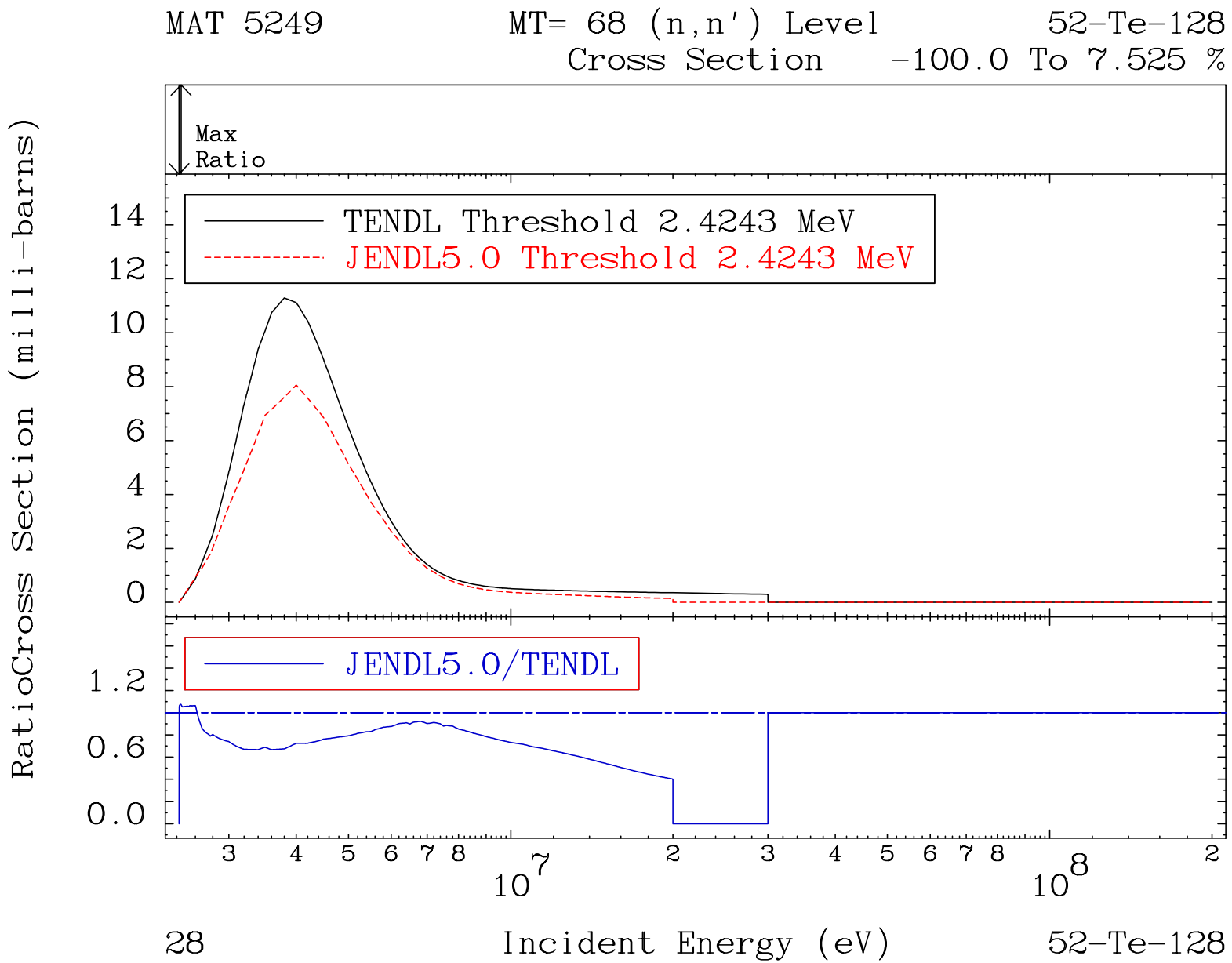

MAT 5249
MT= 63 (n,n') Level
52-Te-128
Cross Section
-100.0 To 150.3 %
Max
Ratio
TENDL Threshold 2.2882 MeV
JENDL5.0 Threshold 2.2882 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
52-Te-128

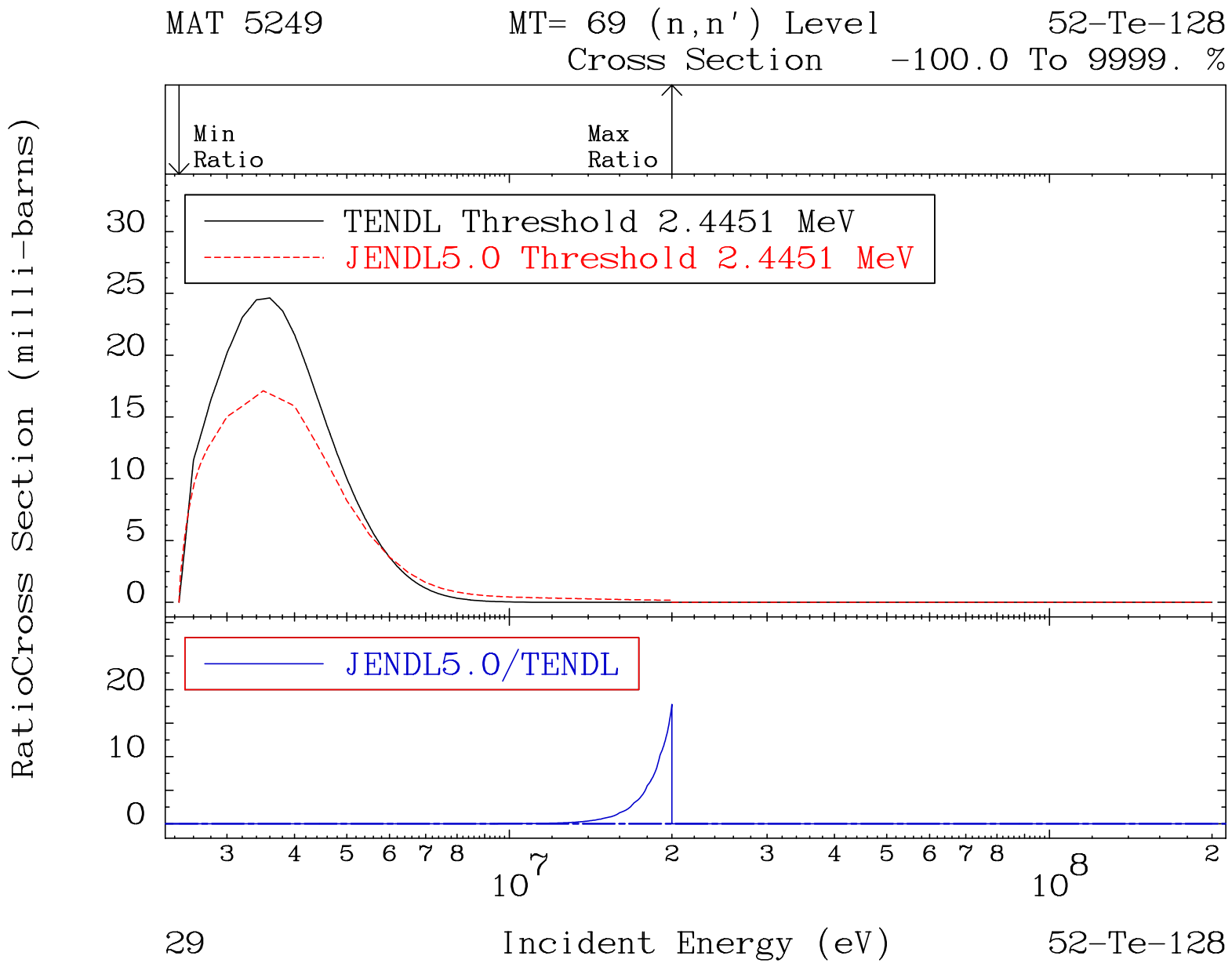

MAT 5249
MT= 64 (n,n') Level
52-Te-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.3265 MeV
JENDL5.0 Threshold 2.3265 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
300
200
100
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
52-Te-128

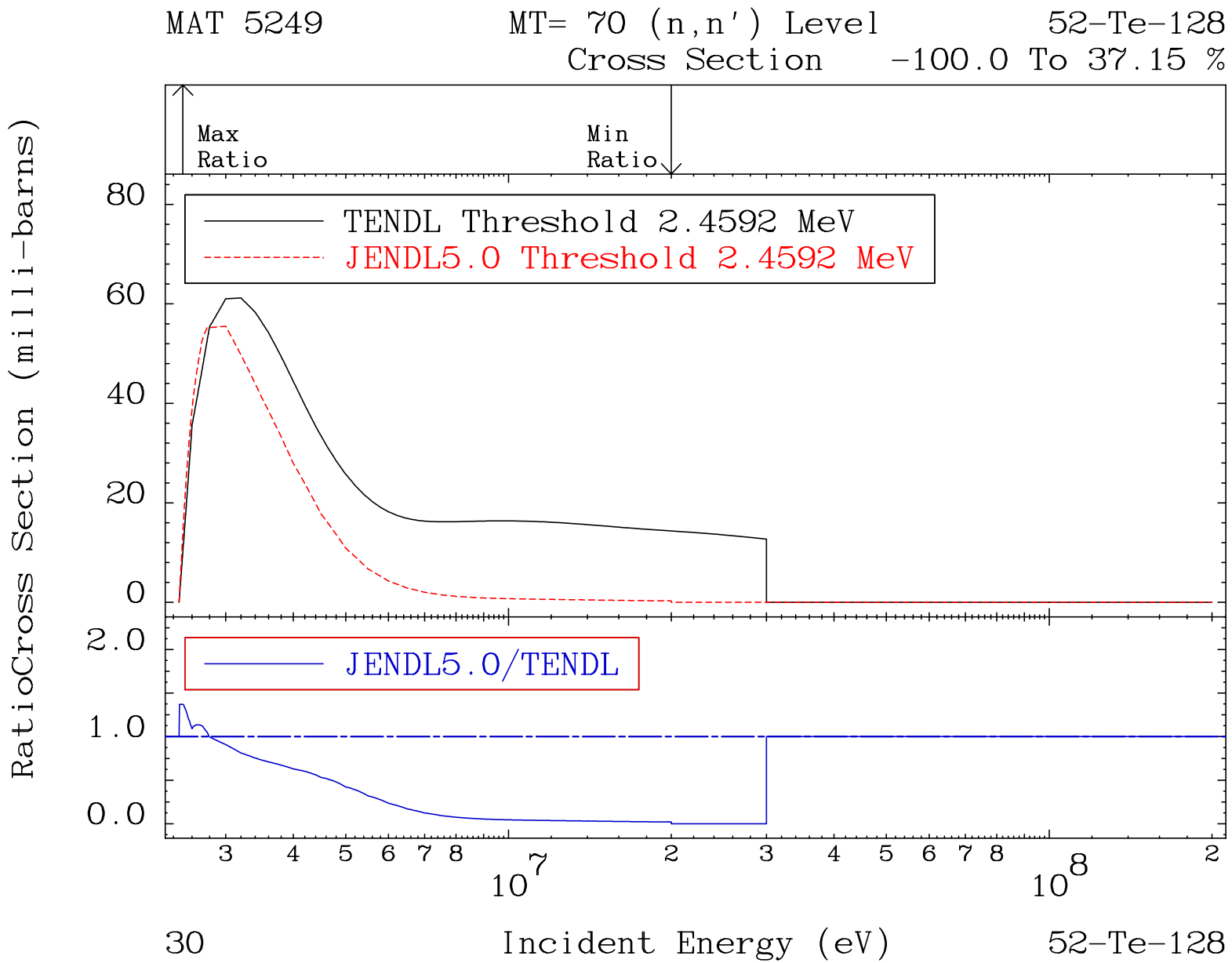

MAT 5249
MT= 65 (n,n') Level
52-Te-128
Cross Section
-100.0 To 94.21 %
Min Ratio
Max Ratio
TENDL Threshold 2.3561 MeV
JENDL5.0 Threshold 2.3561 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
25
52-Te-128

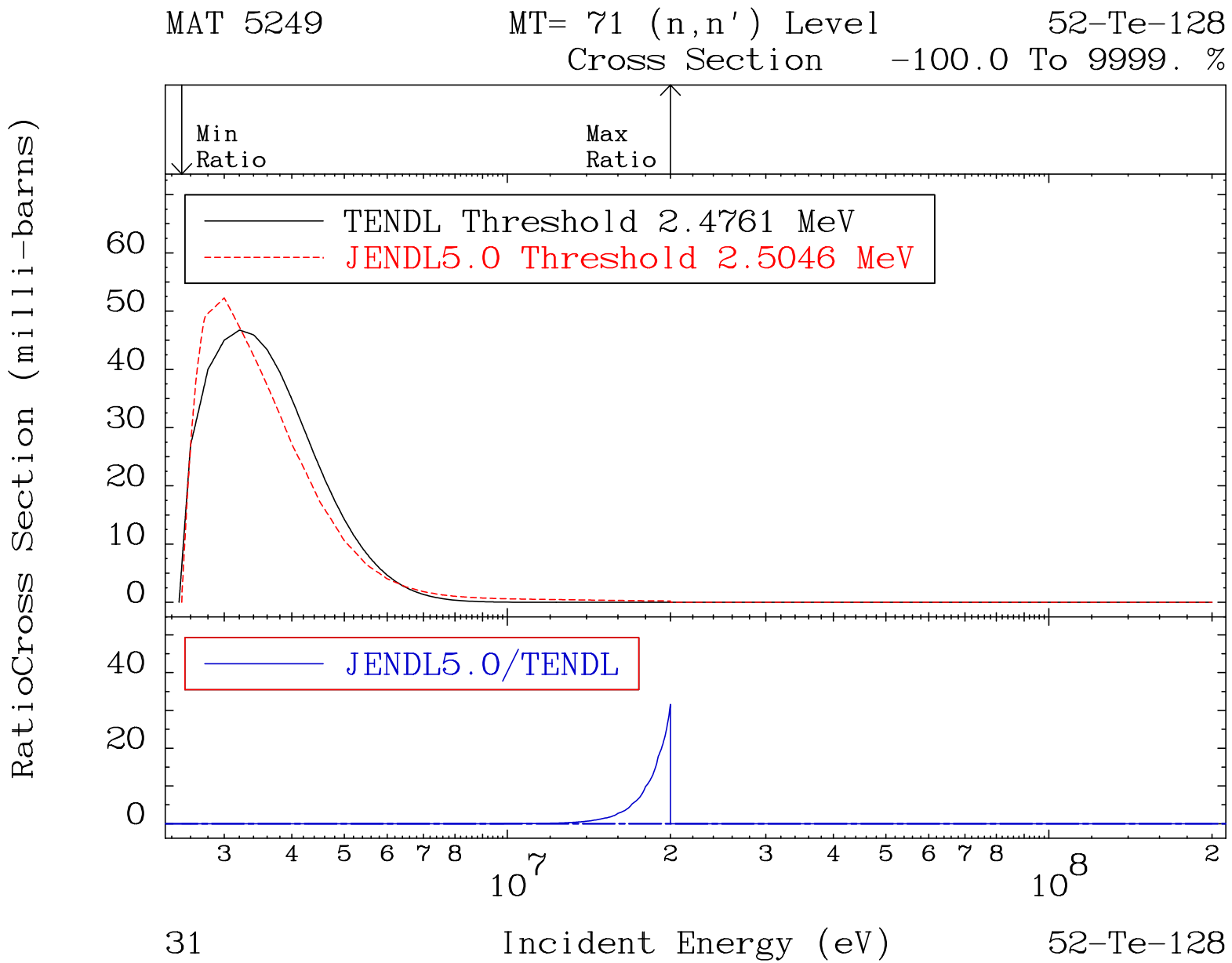

MAT 5249
MT= 66 (n,n') Level
52-Te-128
Cross Section
-100.0 To 21.12 %
Max Ratio
Min Ratio
TENDL Threshold 2.3707 MeV
JENDL5.0 Threshold 2.3707 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
52-Te-128

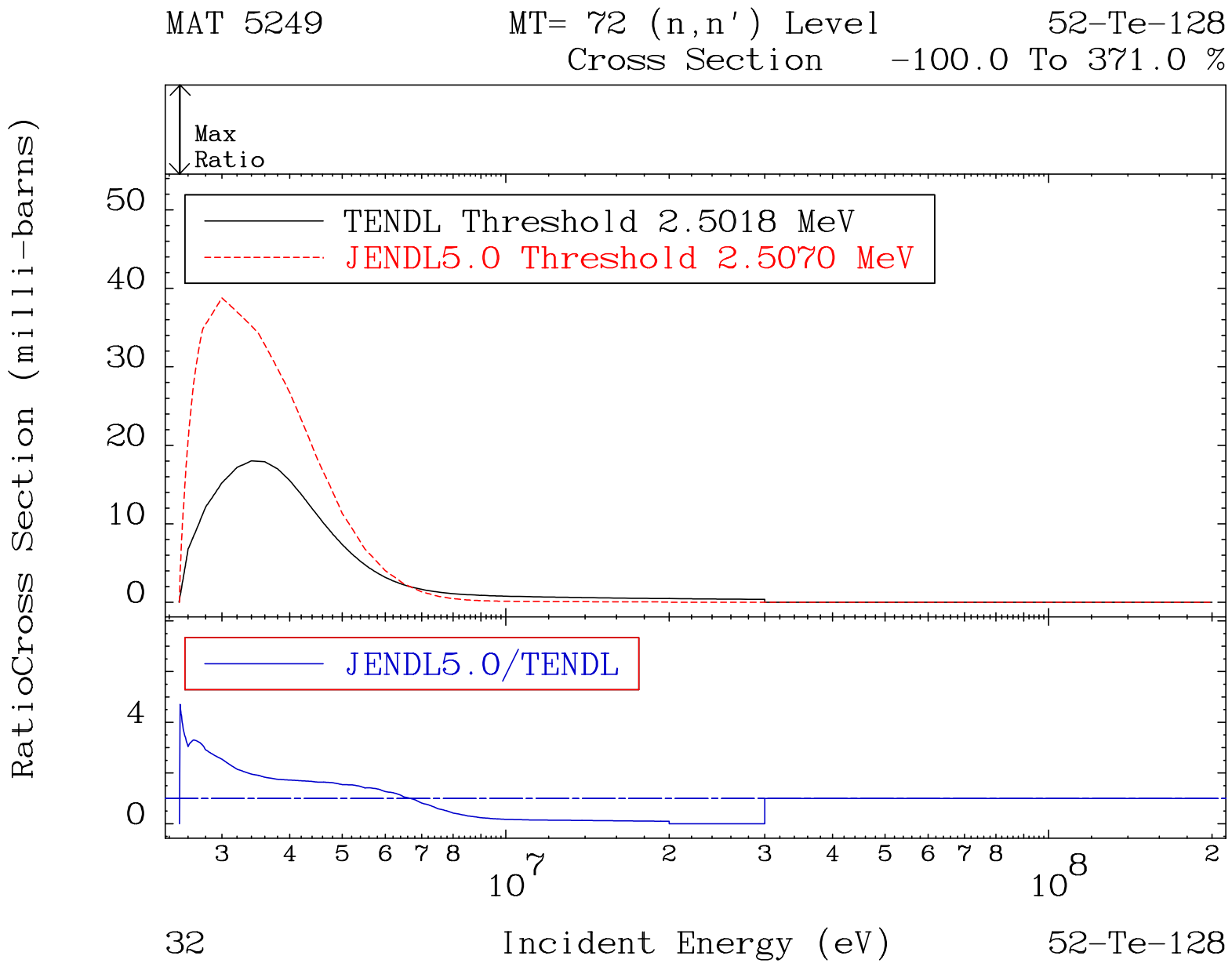

MAT 5249
MT= 67 (n,n') Level
52-Te-128
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.4148 MeV
JENDL5.0 Threshold 2.4148 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
40
20
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
52-Te-128

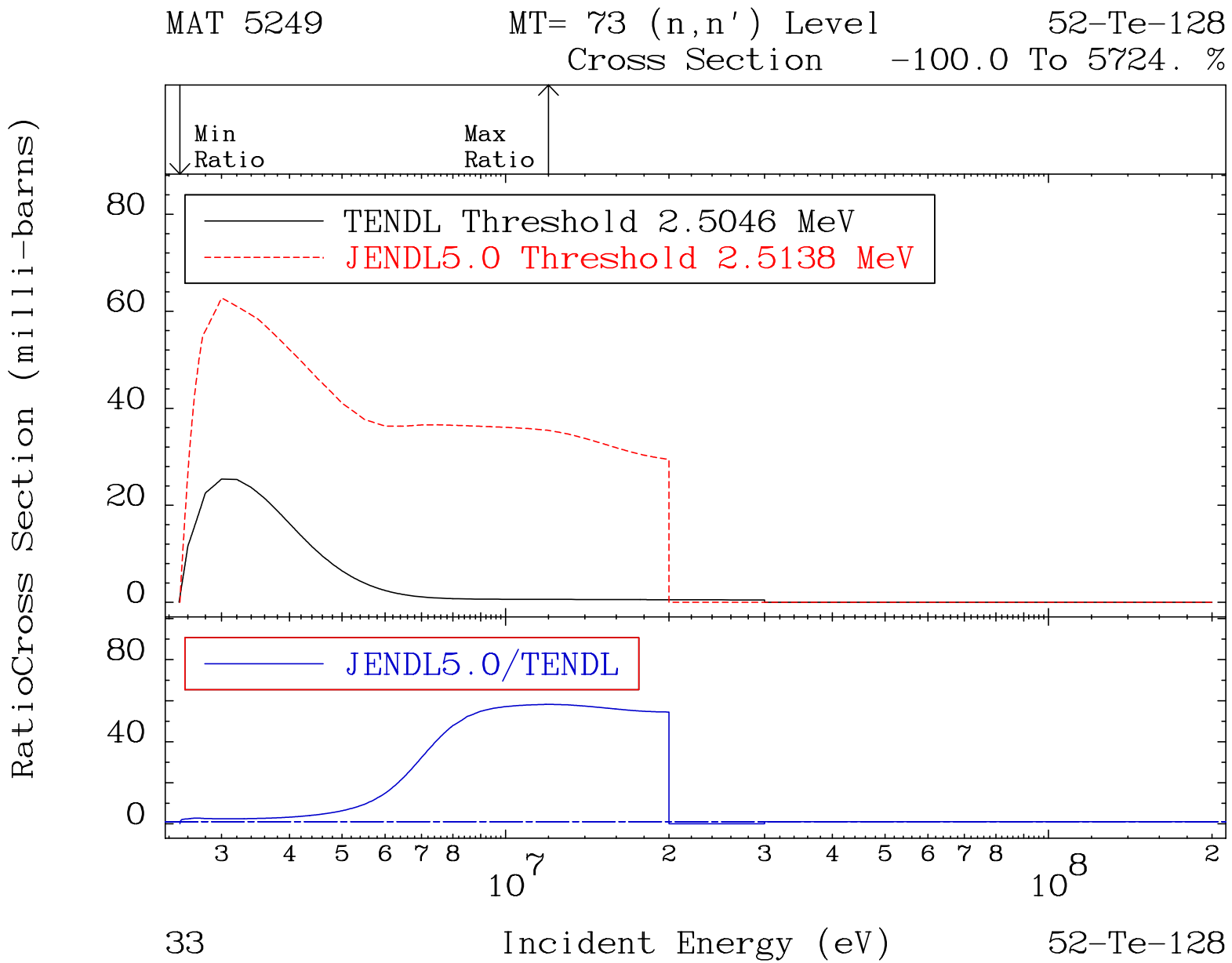

MAT 5249
MT= 68 (n,n') Level
52-Te-128
Cross Section
-100.0 To 7.525 %
Max
Ratio
TENDL Threshold 2.4243 MeV
JENDL5.0 Threshold 2.4243 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
52-Te-128

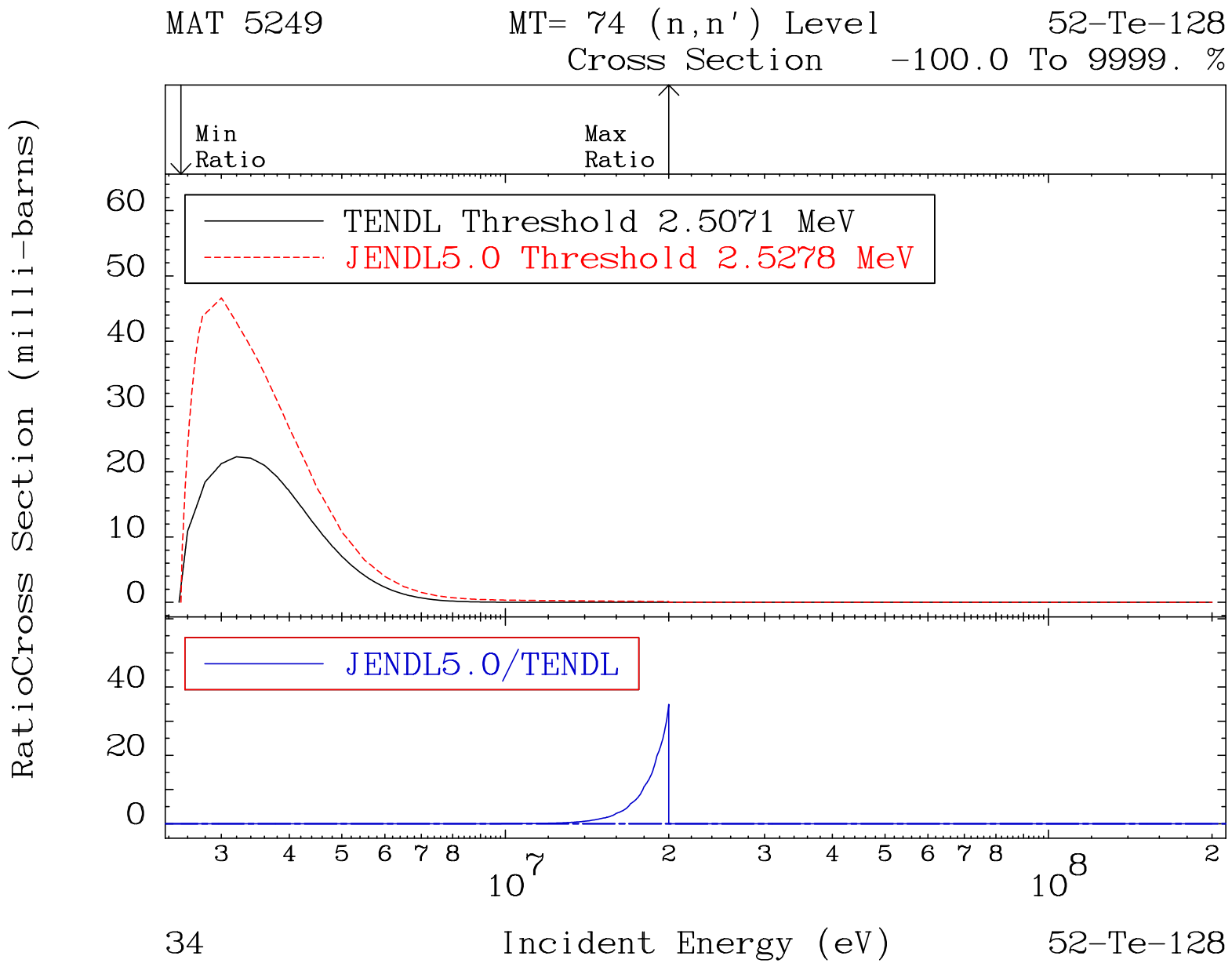

MAT 5249
MT= 69 (n,n') Level
52-Te-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.4451 MeV
JENDL5.0 Threshold 2.4451 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
20
10
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
52-Te-128

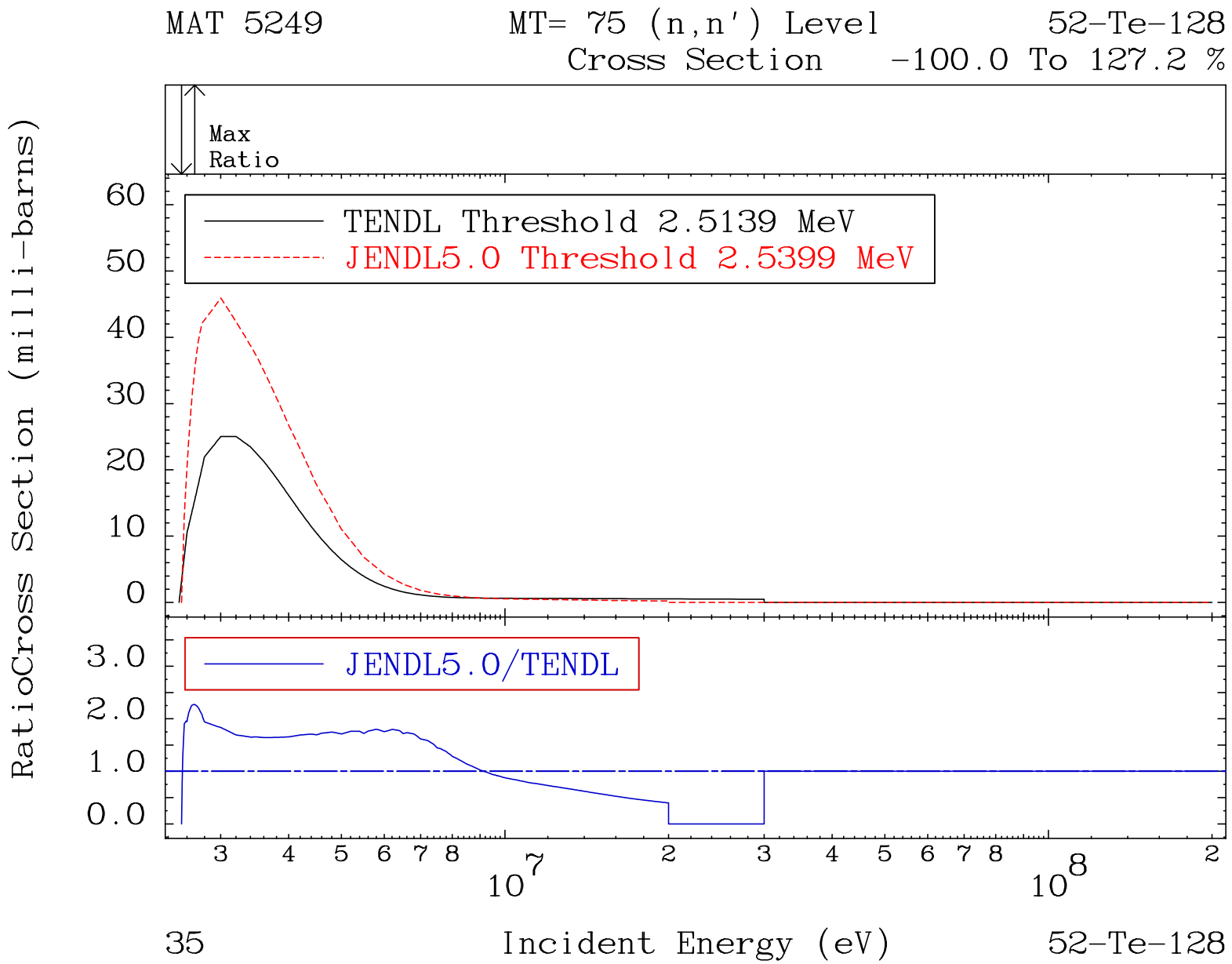

MAT 5249
MT= 70 (n,n') Level
52-Te-128
Cross Section
-100.0 To 37.15 %
Max Ratio
Min Ratio
TENDL Threshold 2.4592 MeV
JENDL5.0 Threshold 2.4592 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
52-Te-128

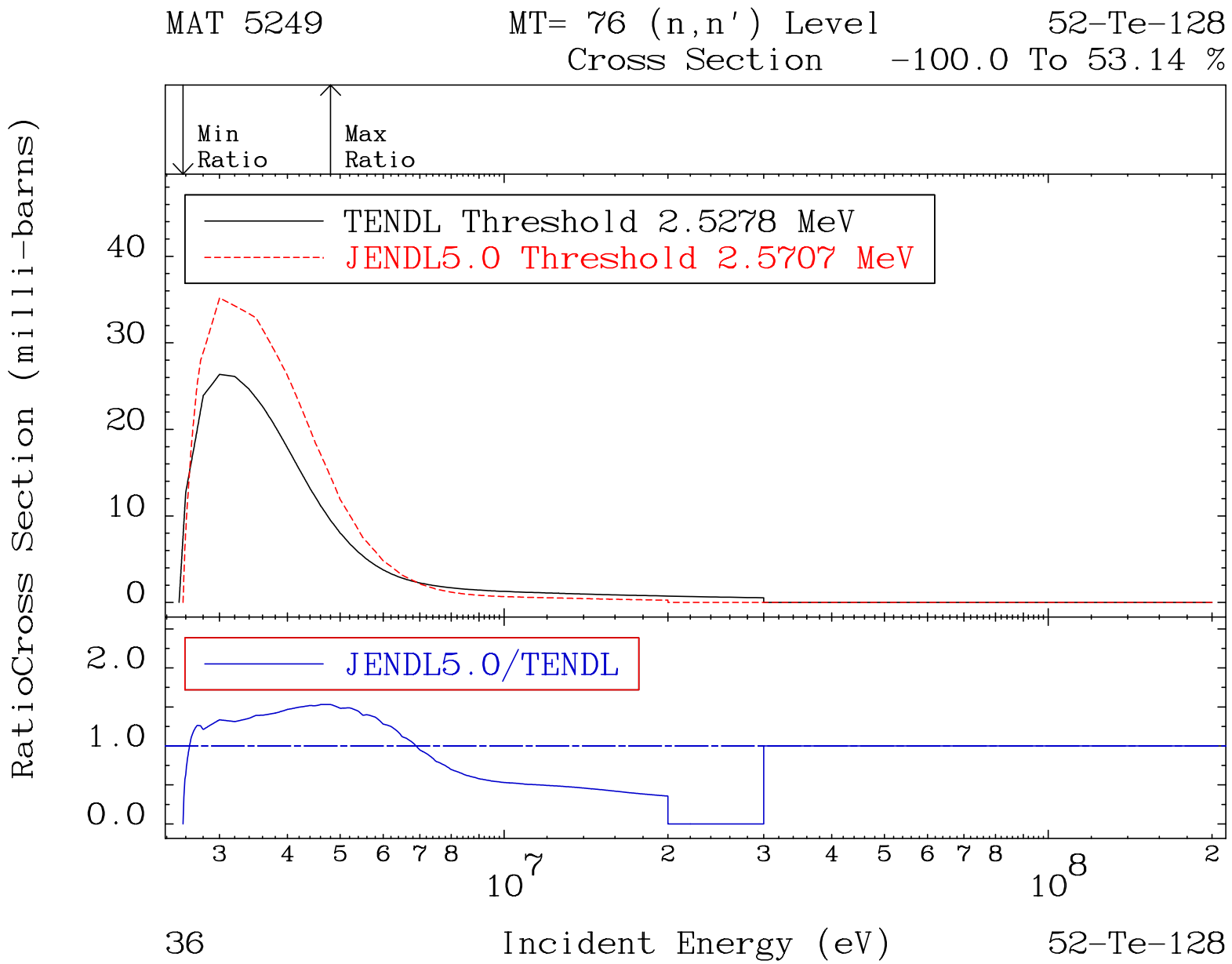

MAT 5249
MT= 71 (n,n') Level
52-Te-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.4761 MeV
JENDL5.0 Threshold 2.5046 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
40
20
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
52-Te-128

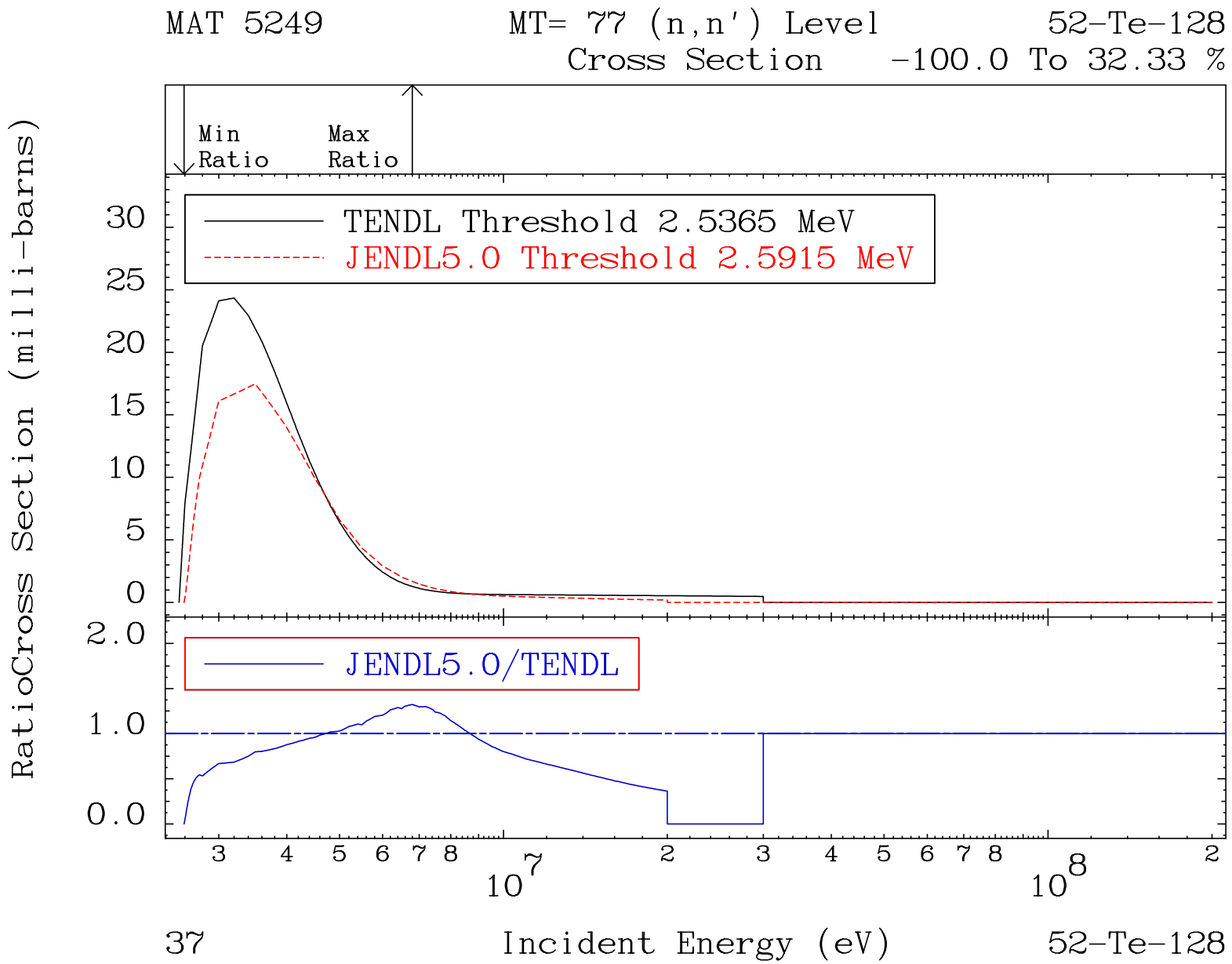

MAT 5249
MT= 72 (n,n') Level
52-Te-128
Cross Section
-100.0 To 371.0 %
Max
Ratio
TENDL Threshold 2.5018 MeV
JENDL5.0 Threshold 2.5070 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
4
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
52-Te-128

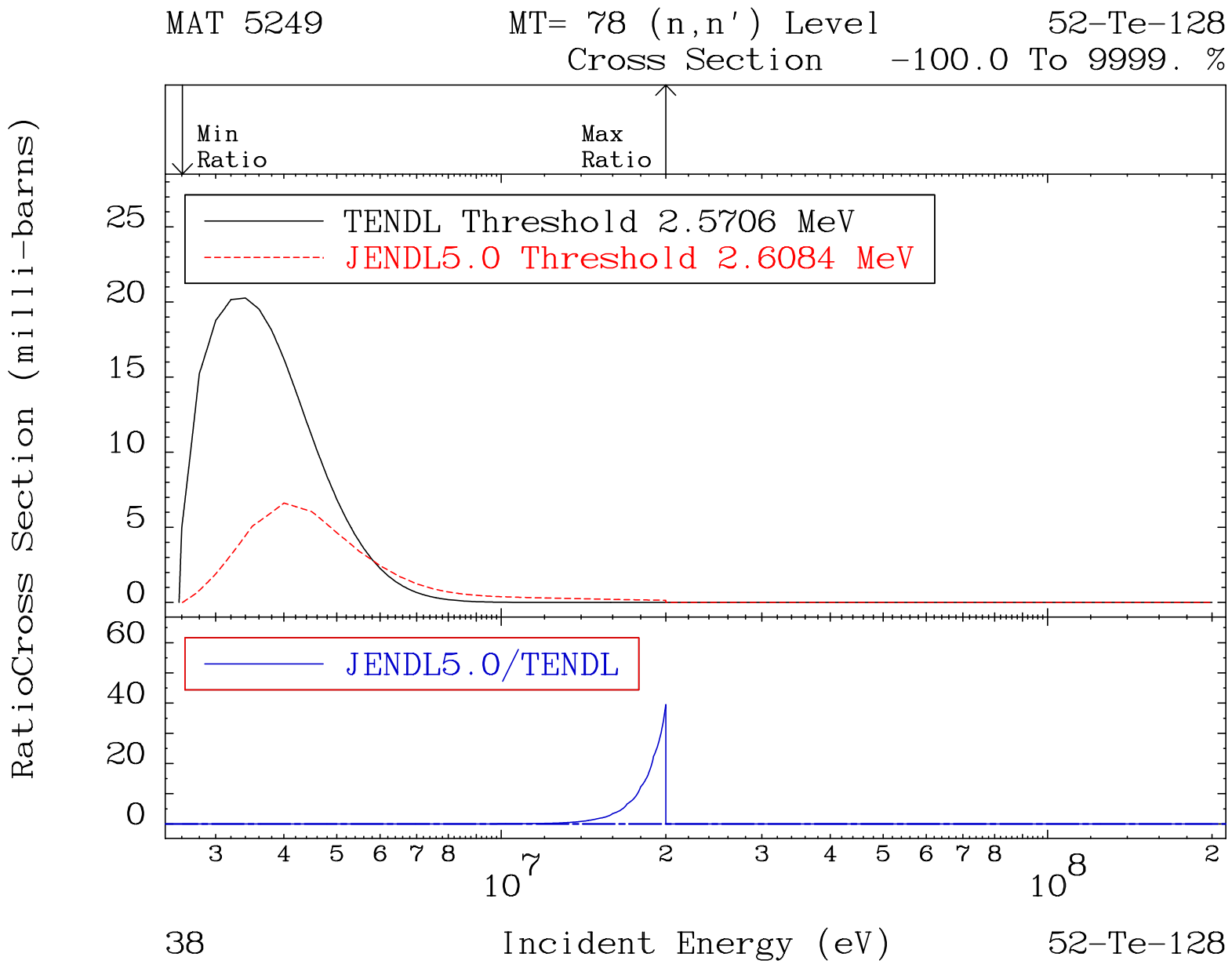

MAT 5249
MT= 73 (n,n') Level
52-Te-128
Cross Section
-100.0 To 5724. %
Min Ratio
Max Ratio
TENDL Threshold 2.5046 MeV
JENDL5.0 Threshold 2.5138 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
80
40
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
33
Incident Energy (eV)
52-Te-128

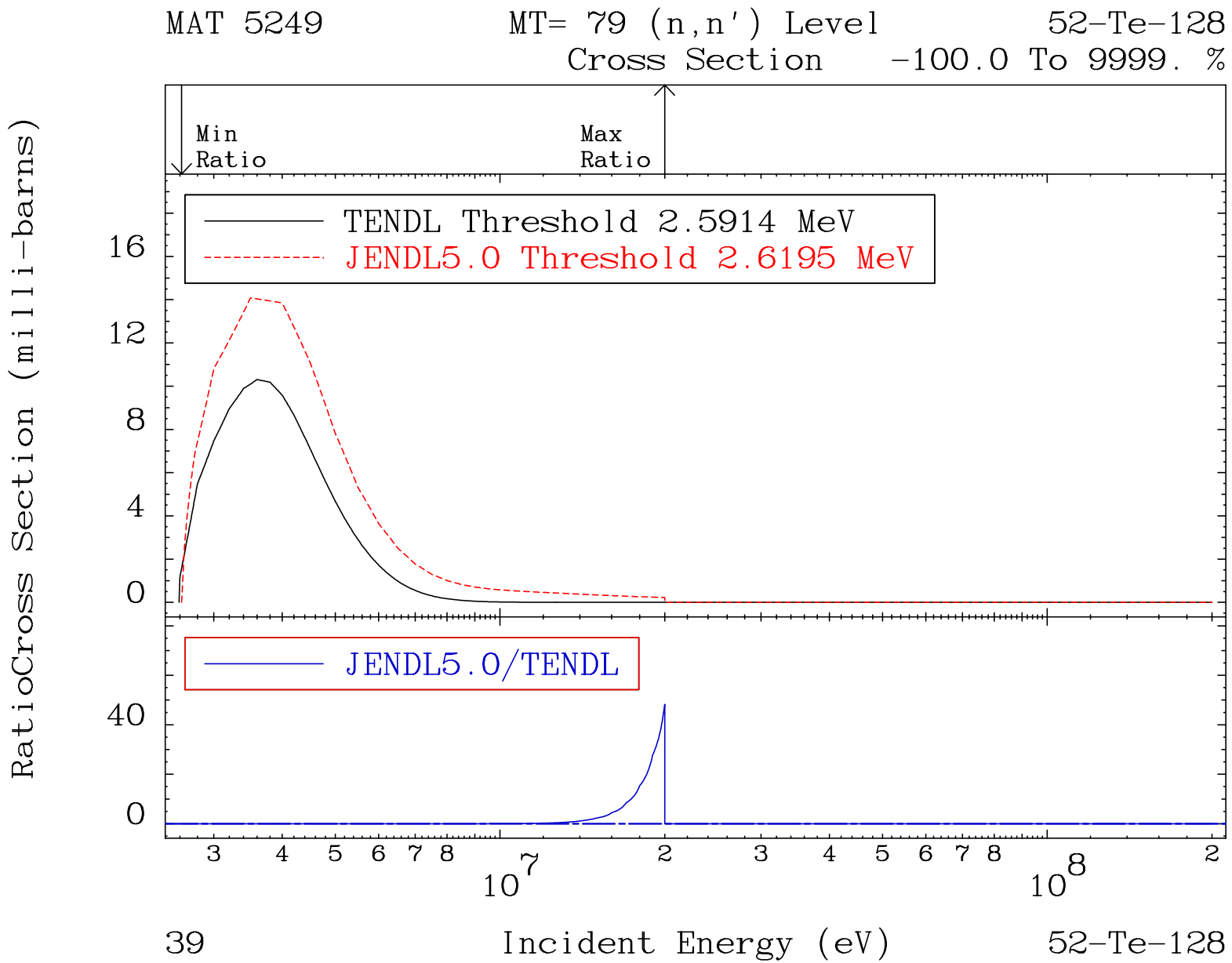

MAT 5249
MT= 74 (n,n') Level
52-Te-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.5071 MeV
JENDL5.0 Threshold 2.5278 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
34
52-Te-128

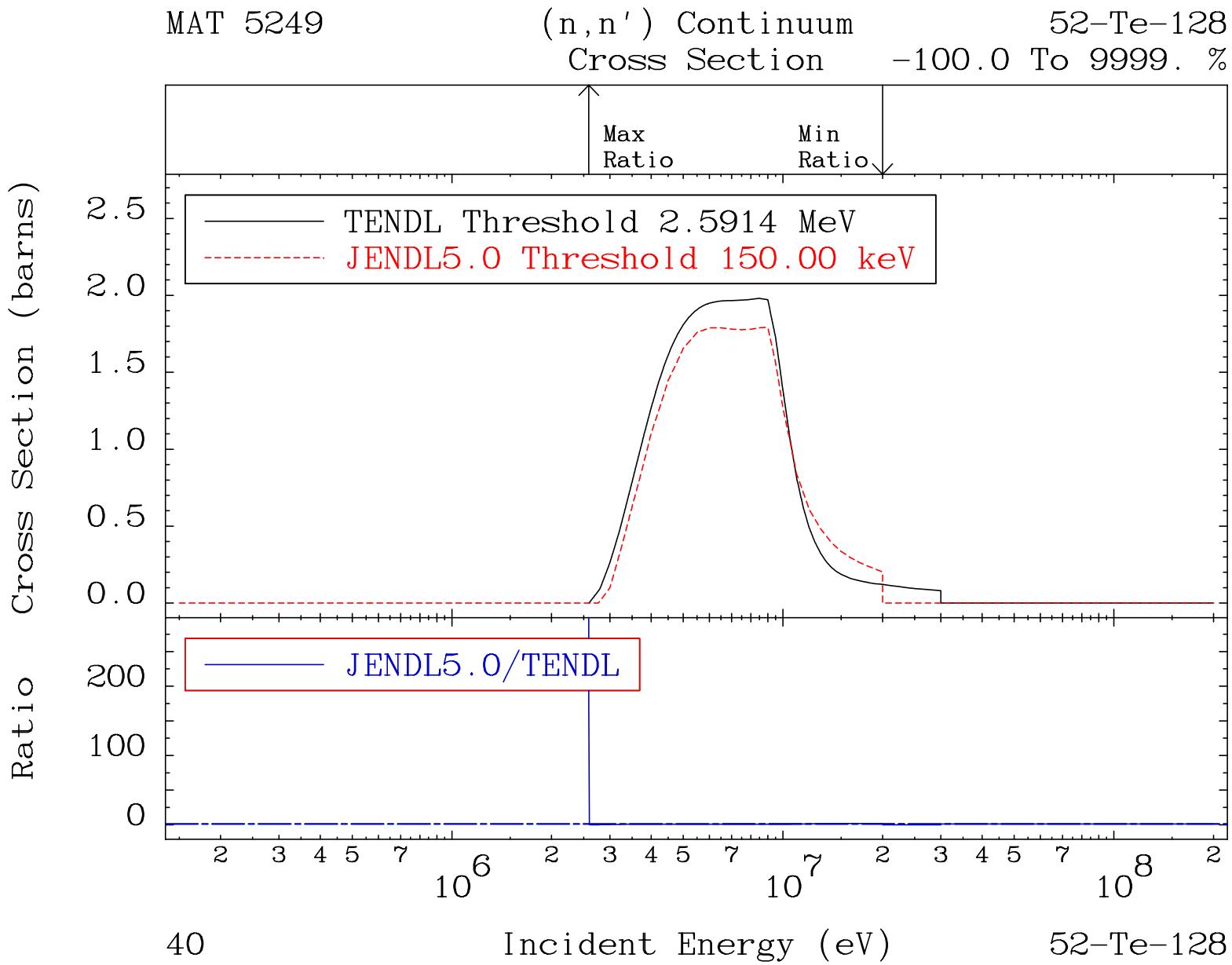

MAT 5249
MT= 75 (n,n') Level
52-Te-128
Cross Section
-100.0 To 127.2 %
Max
Ratio
TENDL Threshold 2.5139 MeV
JENDL5.0 Threshold 2.5399 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
52-Te-128

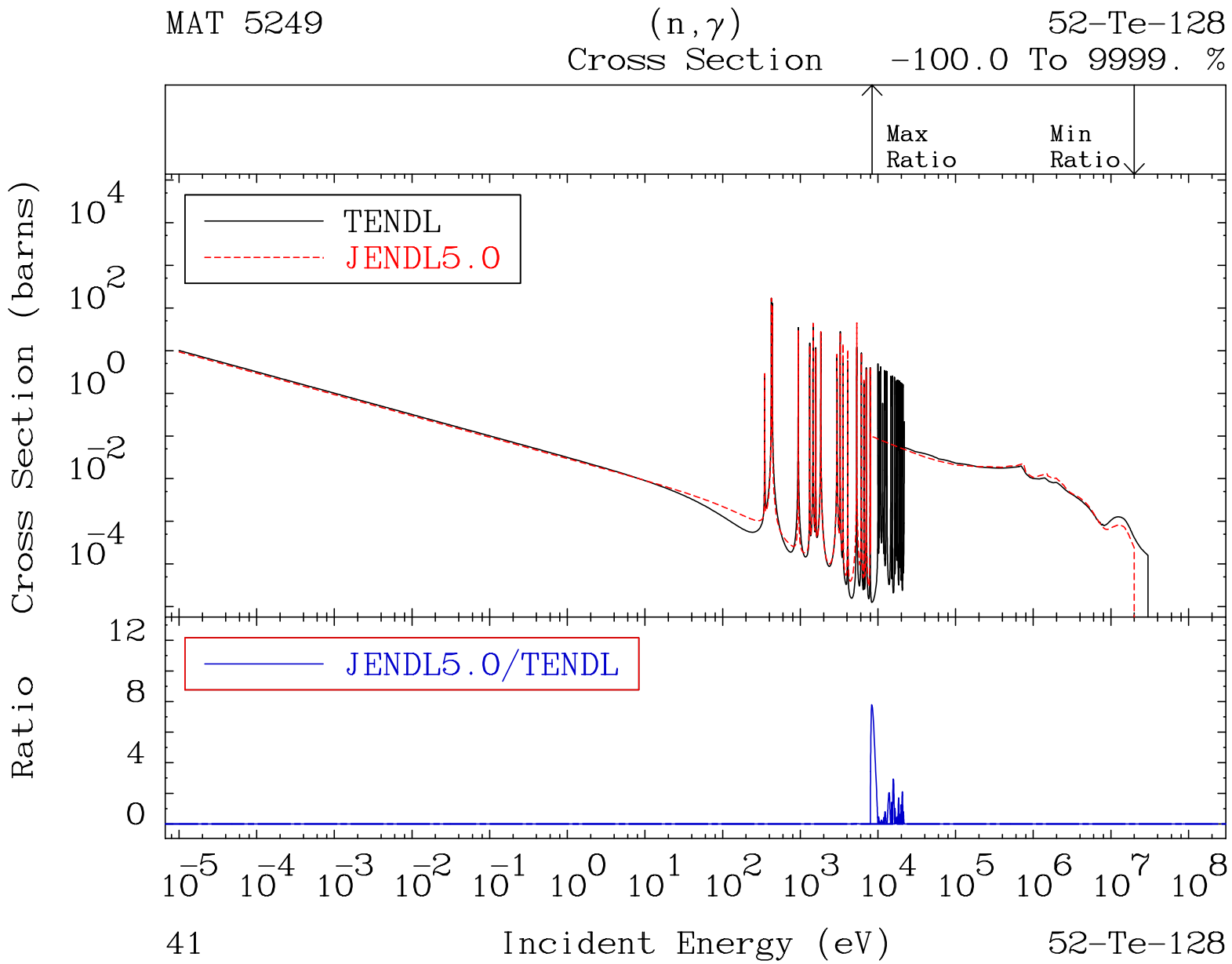

MAT 5249
MT= 76 (n,n') Level
52-Te-128
Cross Section
-100.0 To 53.14 %
Min Ratio
Max Ratio
TENDL Threshold 2.5278 MeV
JENDL5.0 Threshold 2.5707 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
36
52-Te-128

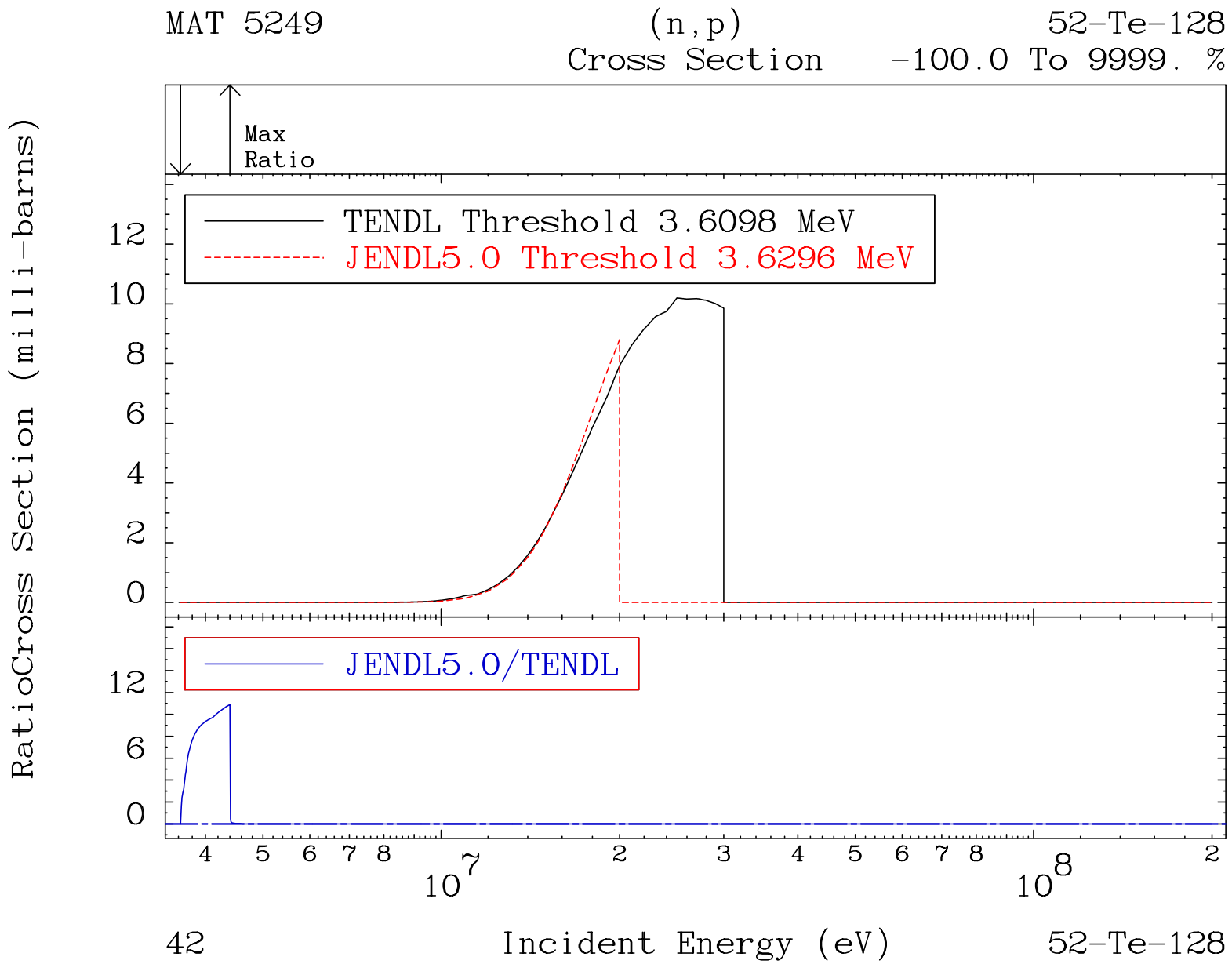

MAT 5249
MT= 77 (n,n') Level
52-Te-128
Cross Section
-100.0 To 32.33 %
Min Ratio
Max Ratio
TENDL Threshold 2.5365 MeV
JENDL5.0 Threshold 2.5915 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
37
Incident Energy (eV)
52-Te-128

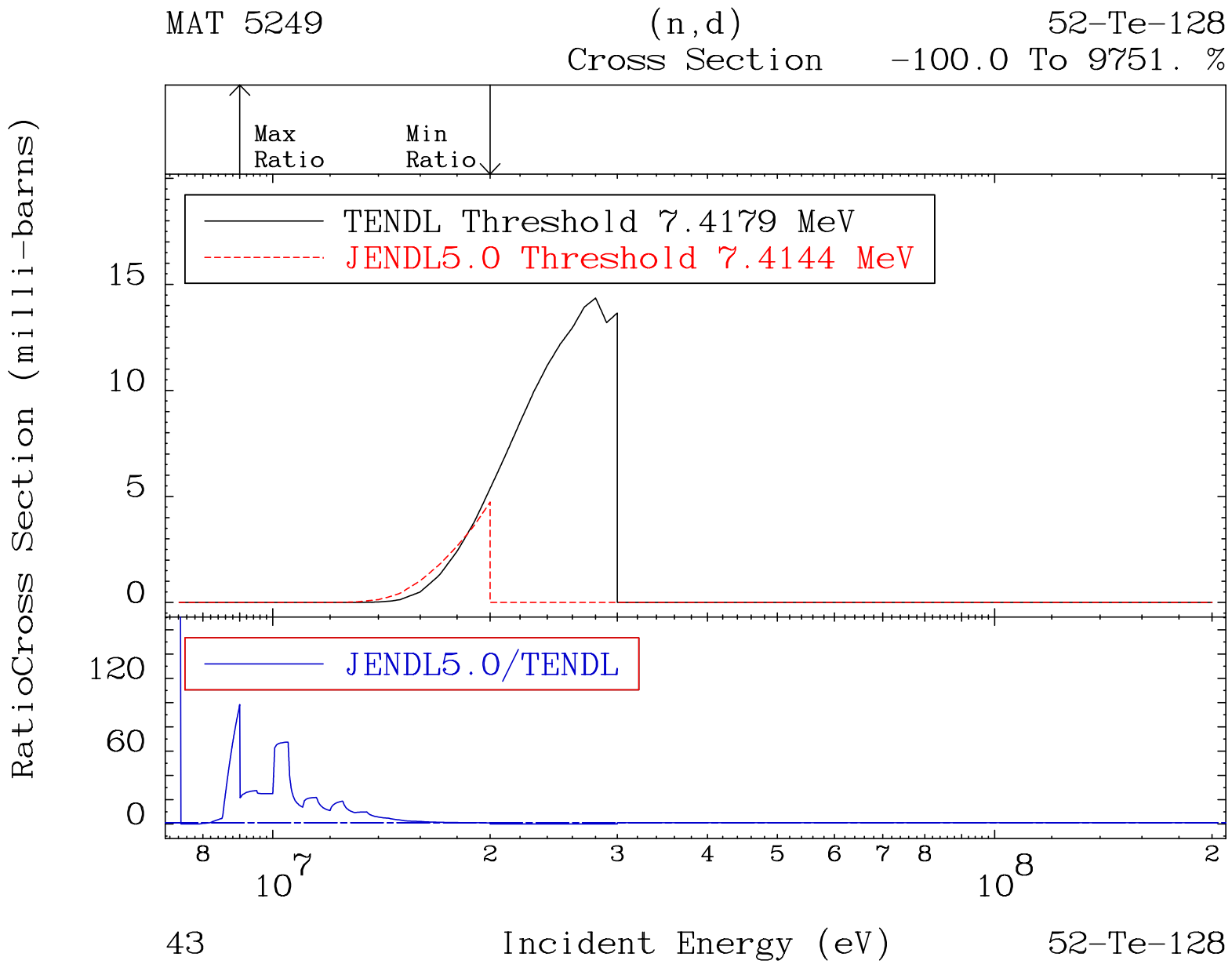

MAT 5249
MT= 78 (n,n') Level
52-Te-128
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.5706 MeV
JENDL5.0 Threshold 2.6084 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
38
52-Te-128

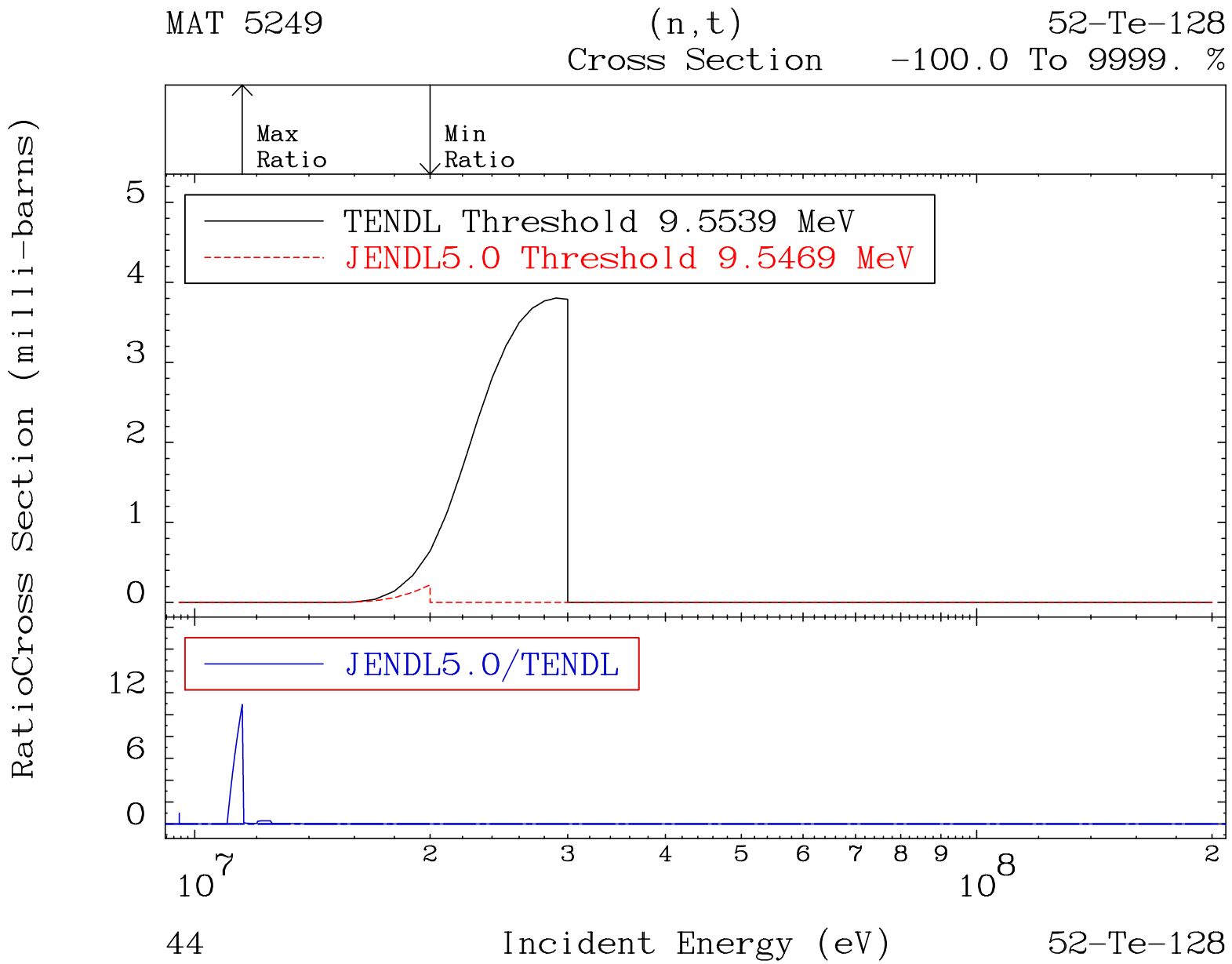

MAT 5249
MT= 79 (n,n') Level
52-Te-128
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.5914 MeV
JENDL5.0 Threshold 2.6195 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
40
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
39
Incident Energy (eV)
52-Te-128

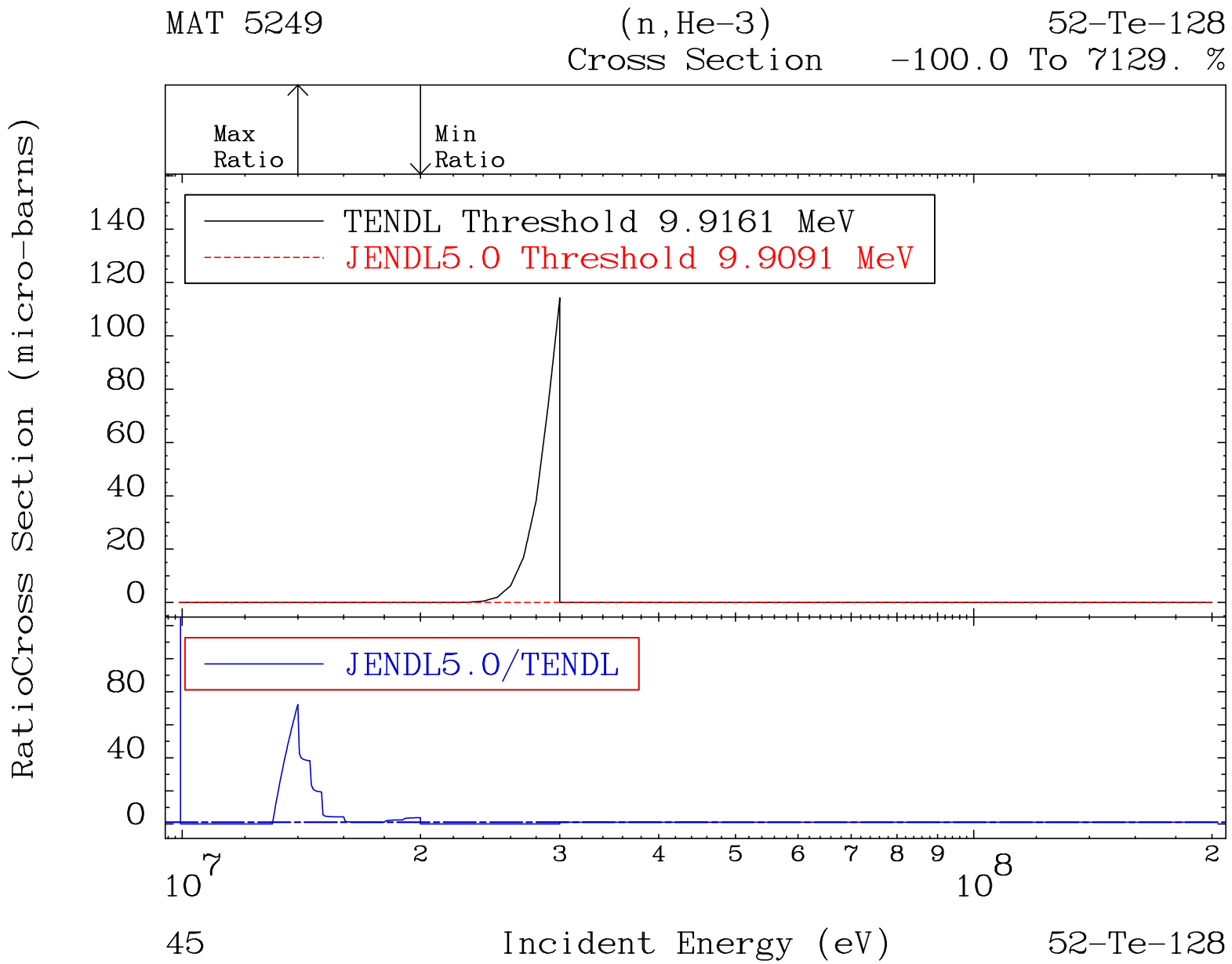

MAT 5249
(n,n') Continuum
Cross Section
52-Te-128
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.5914 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
200
100
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
40
Incident Energy (eV)
52-Te-128

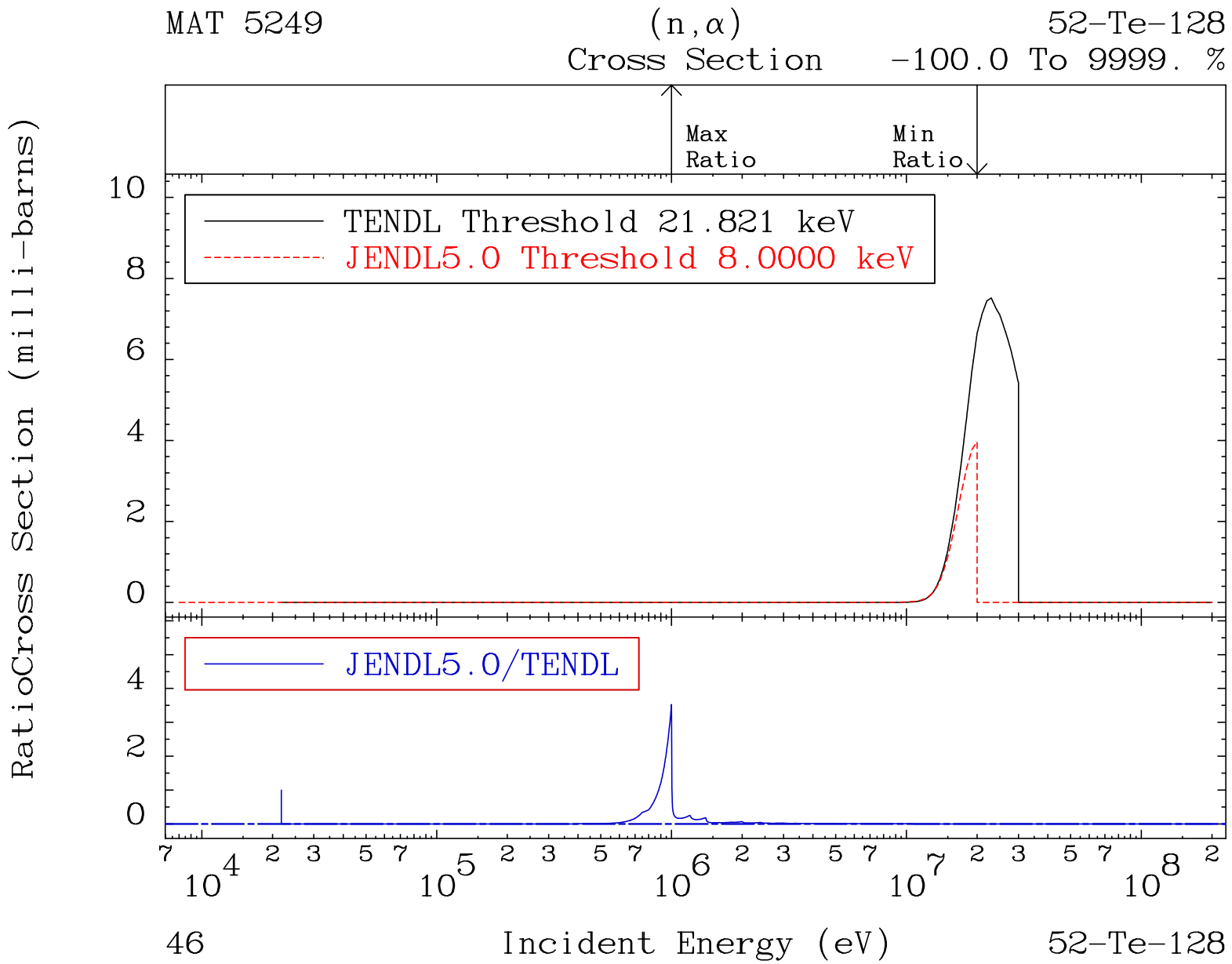

MAT 5249
(n,γ)
Cross Section
52-Te-128
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
41
52-Te-128

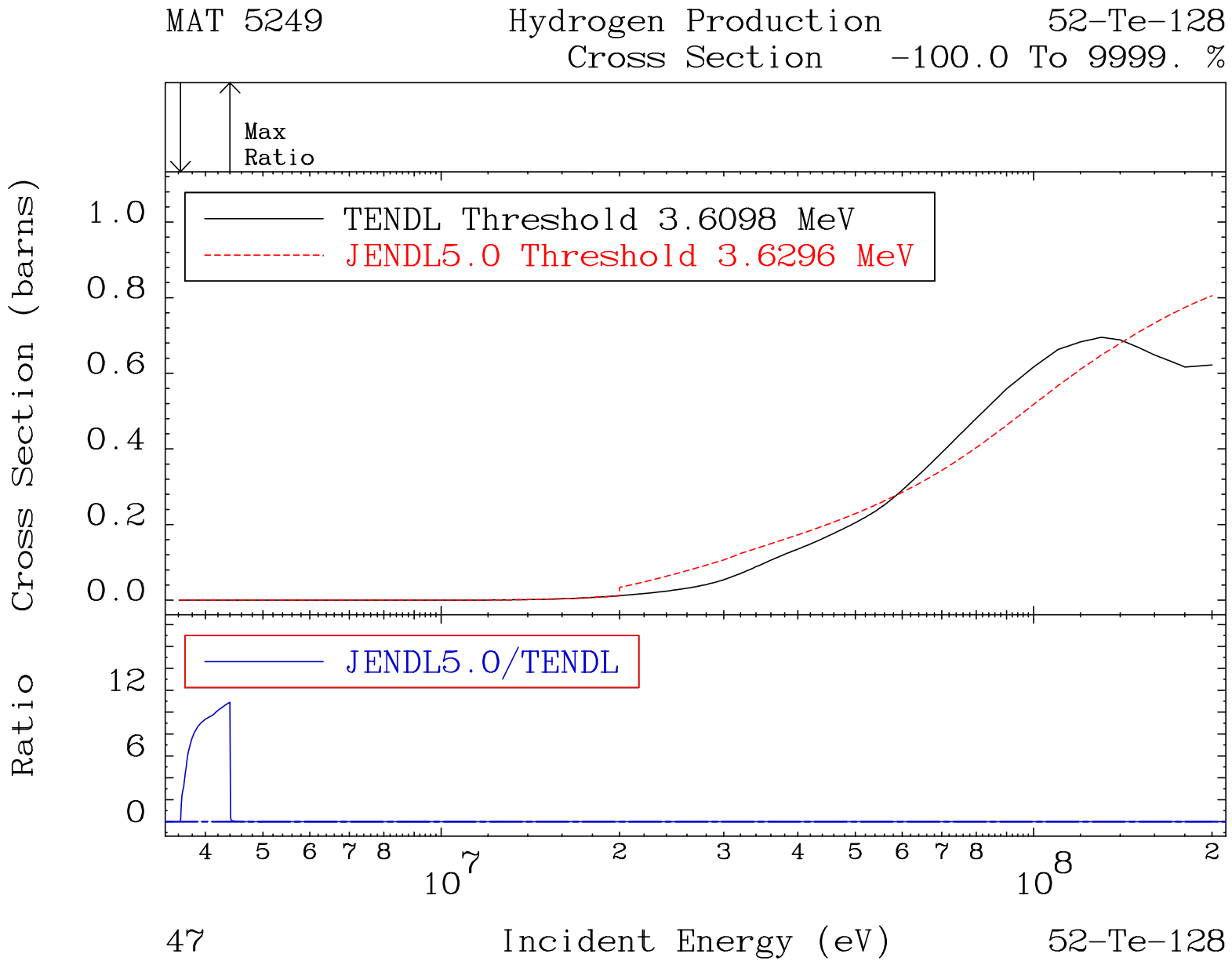

MAT 5249
(n,p)
52-Te-128
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 3.6098 MeV
JENDL5.0 Threshold 3.6296 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
12
6
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
42
Incident Energy (eV)
52-Te-128

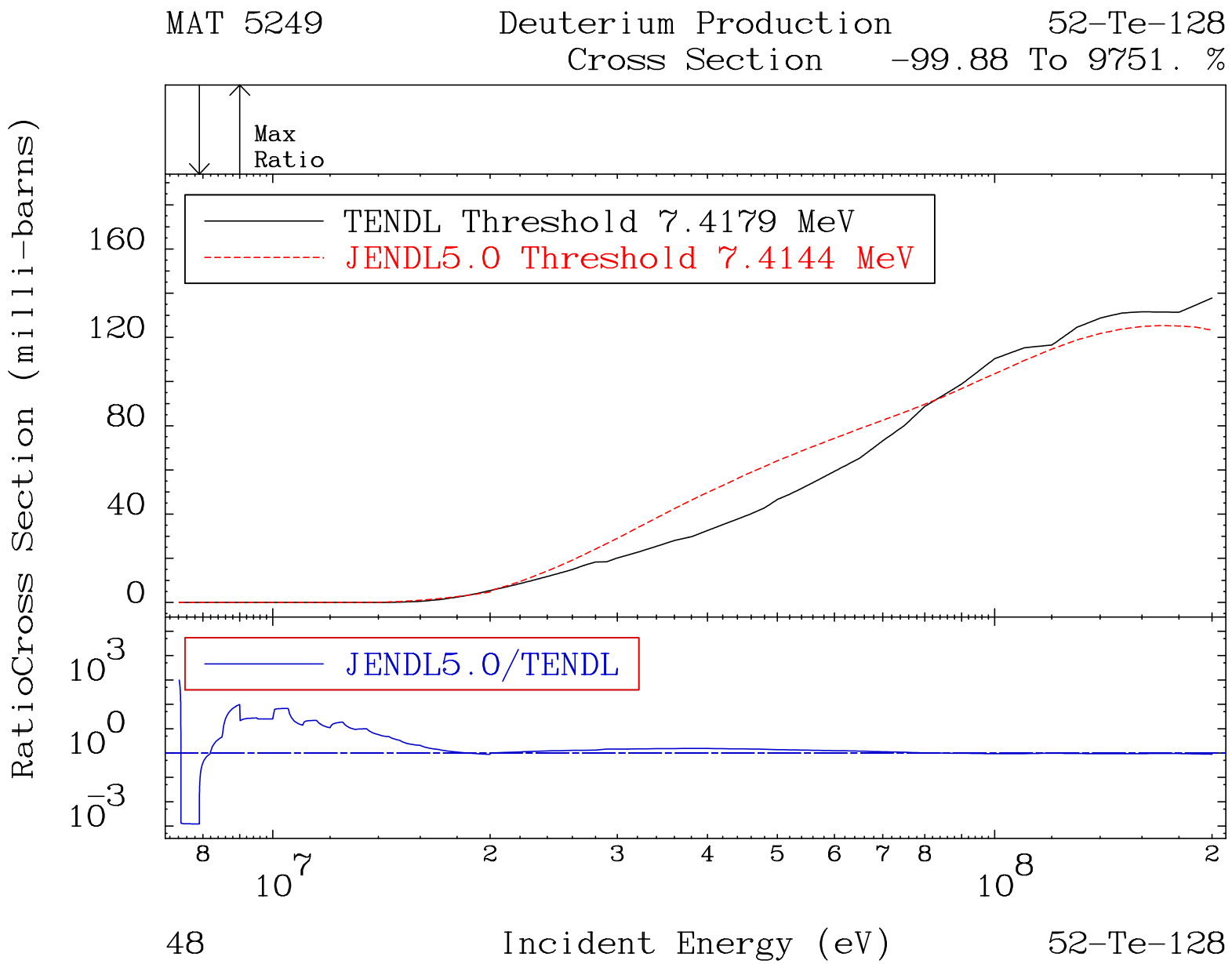

MAT 5249
(n,d)
52-Te-128
Cross Section
-100.0 To 9751. %
Max Ratio
Min Ratio
TENDL Threshold 7.4179 MeV
JENDL5.0 Threshold 7.4144 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
120
60
0
8
2
3
4
5
6
7
8
2
10^7
10^8
43
Incident Energy (eV)
52-Te-128

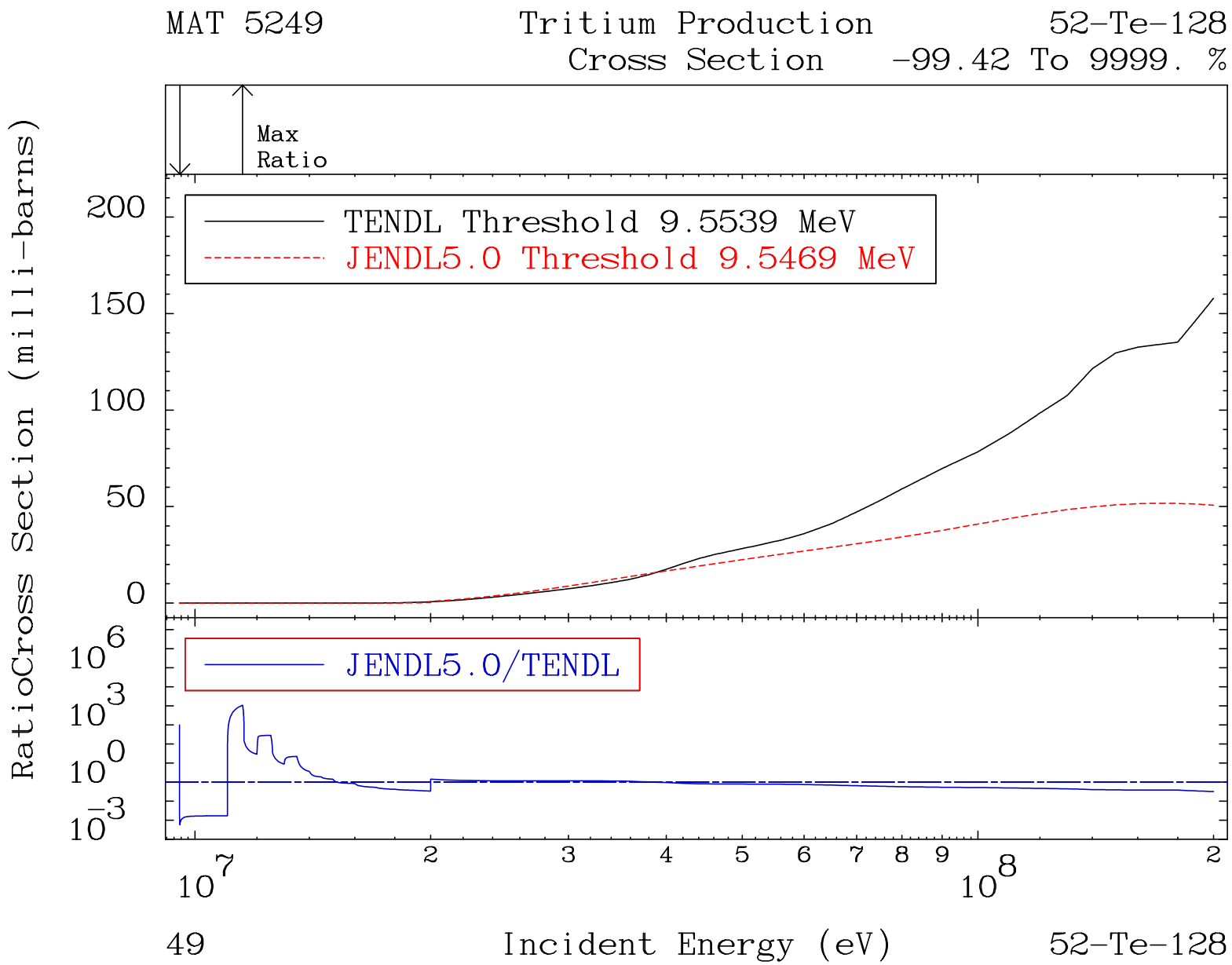

MAT 5249
(n,t)
52-Te-128
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.5539 MeV
JENDL5.0 Threshold 9.5469 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
44
52-Te-128

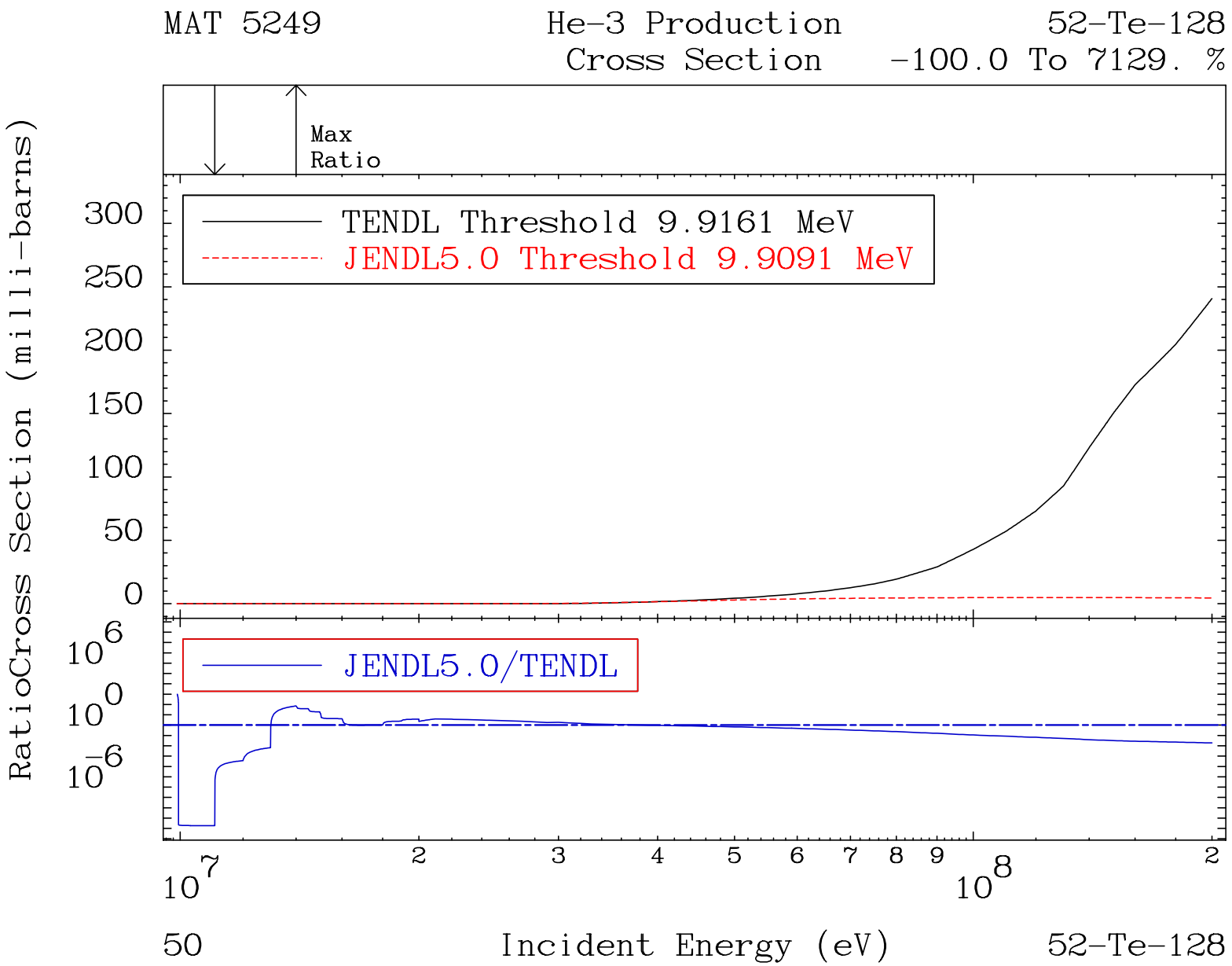

MAT 5249
(n,He-3)
52-Te-128
Cross Section
-100.0 To 7129. %
Max Ratio
Min Ratio
TENDL Threshold 9.9161 MeV
JENDL5.0 Threshold 9.9091 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
140
120
100
80
60
40
20
0
80
40
0
10^7
2
3
4
5
6
7
8
9
10^8
2
45
Incident Energy (eV)
52-Te-128

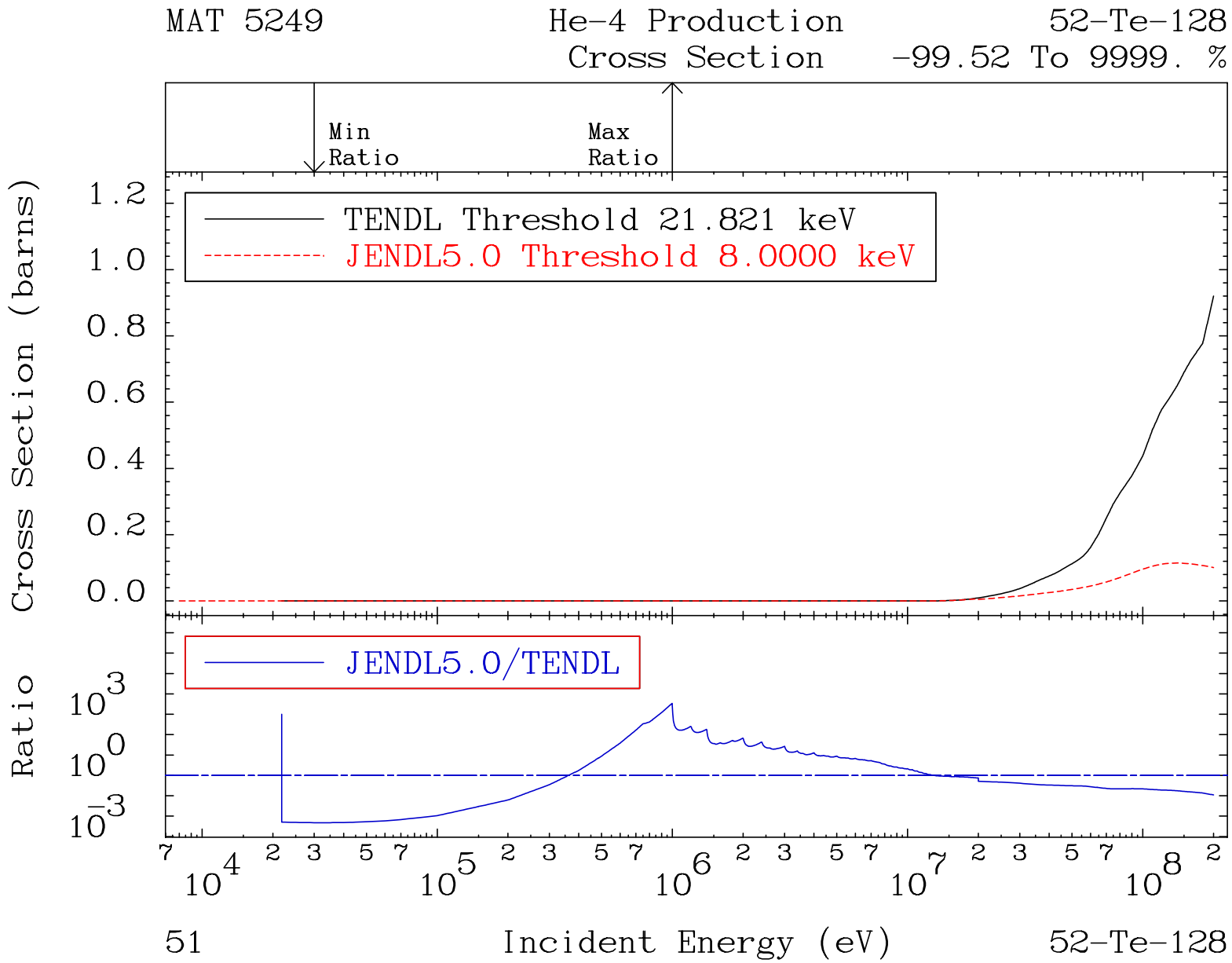

MAT 5249
(n,α)
Cross Section
52-Te-128
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 21.821 keV
JENDL5.0 Threshold 8.0000 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
46
52-Te-128

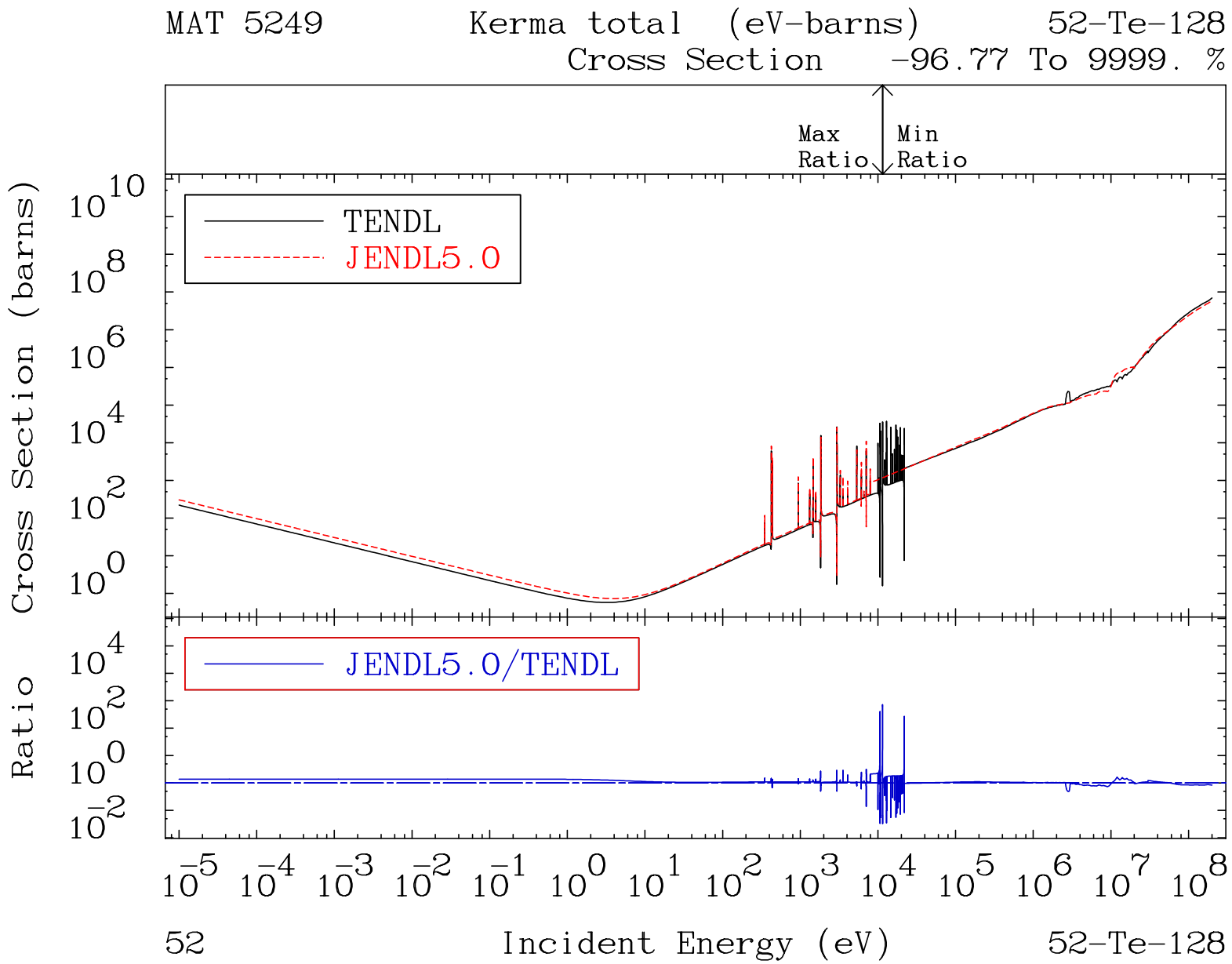

MAT 5249
Hydrogen Production
52-Te-128
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 3.6098 MeV
JENDL5.0 Threshold 3.6296 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
12
6
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
47
Incident Energy (eV)
52-Te-128

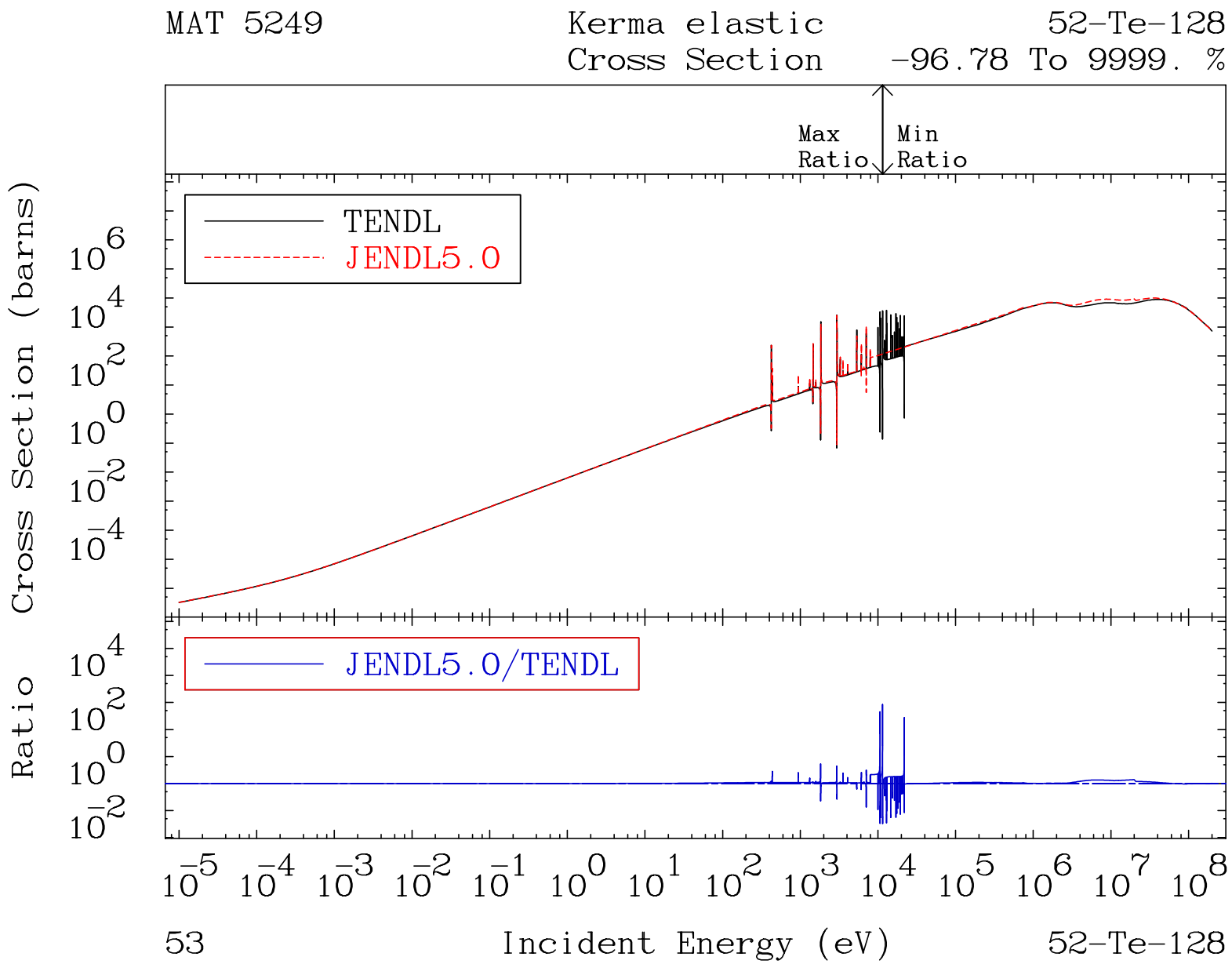

MAT 5249
Deuterium Production
52-Te-128
Cross Section
-99.88 To 9751. %
Max
Ratio
TENDL Threshold 7.4179 MeV
JENDL5.0 Threshold 7.4144 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^3
10^0
10^-3
8
10^7
2
3
4
5
6
7
8
10^8
2
48
Incident Energy (eV)
52-Te-128

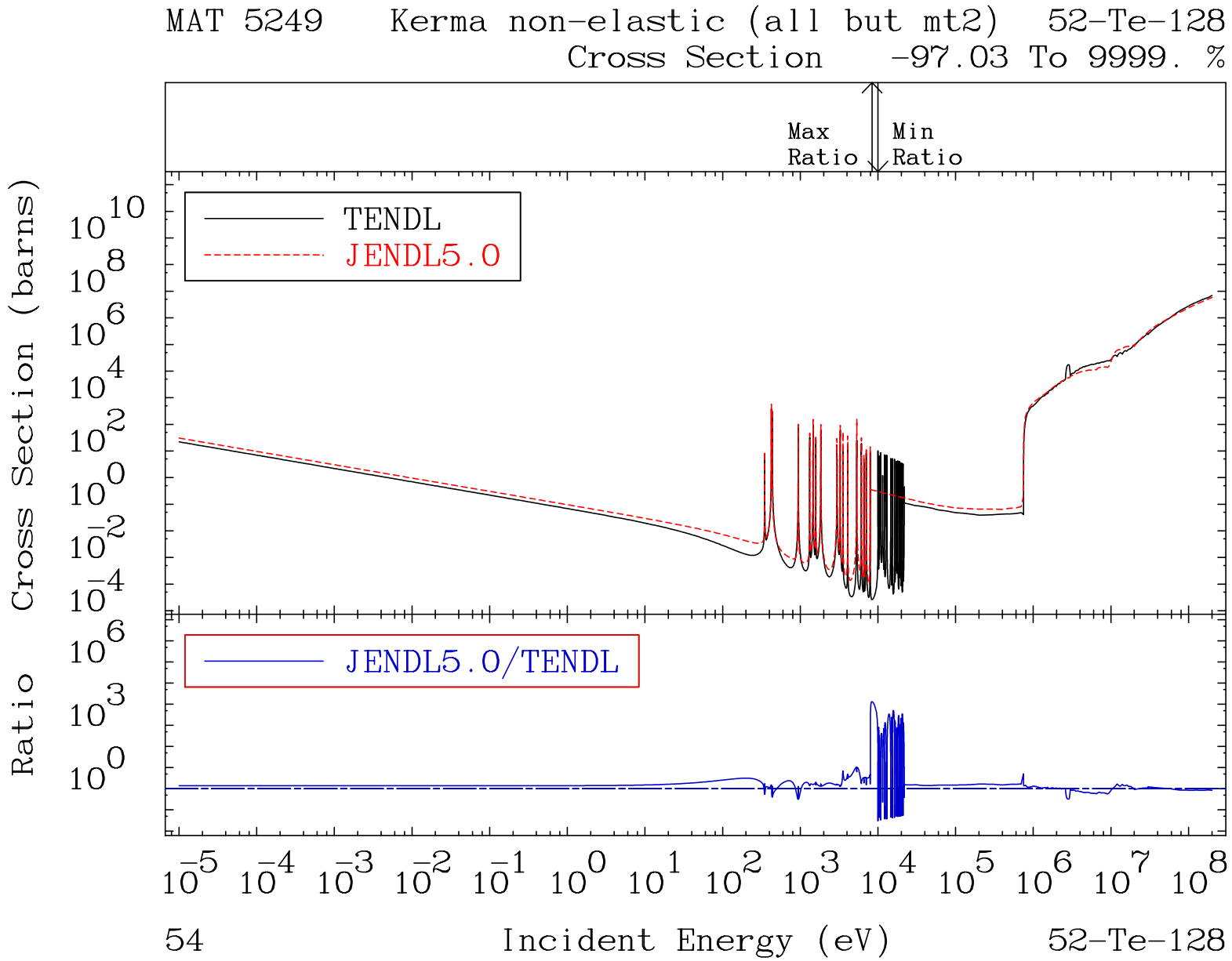

MAT 5249
Tritium Production
52-Te-128
Cross Section
-99.42 To 9999. %
Max
Ratio
TENDL Threshold 9.5539 MeV
JENDL5.0 Threshold 9.5469 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^6
10^3
10^0
10^-3
10^7
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
52-Te-128

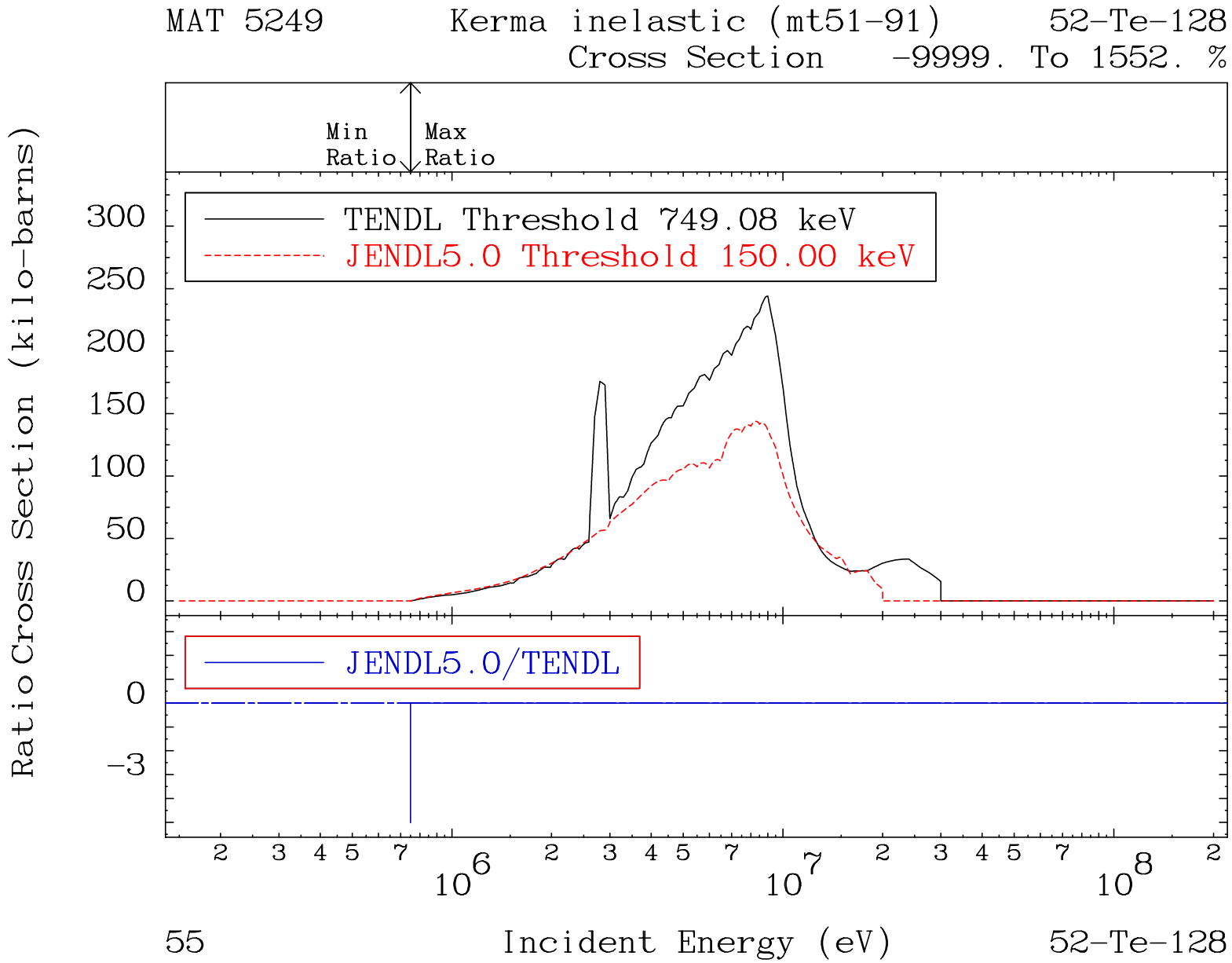

MAT 5249
He-3 Production
Cross Section
52-Te-128
-100.0 To 7129. %
Max
Ratio
TENDL Threshold 9.9161 MeV
JENDL5.0 Threshold 9.9091 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
10^6
10^0
10^-6
10^7
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
52-Te-128

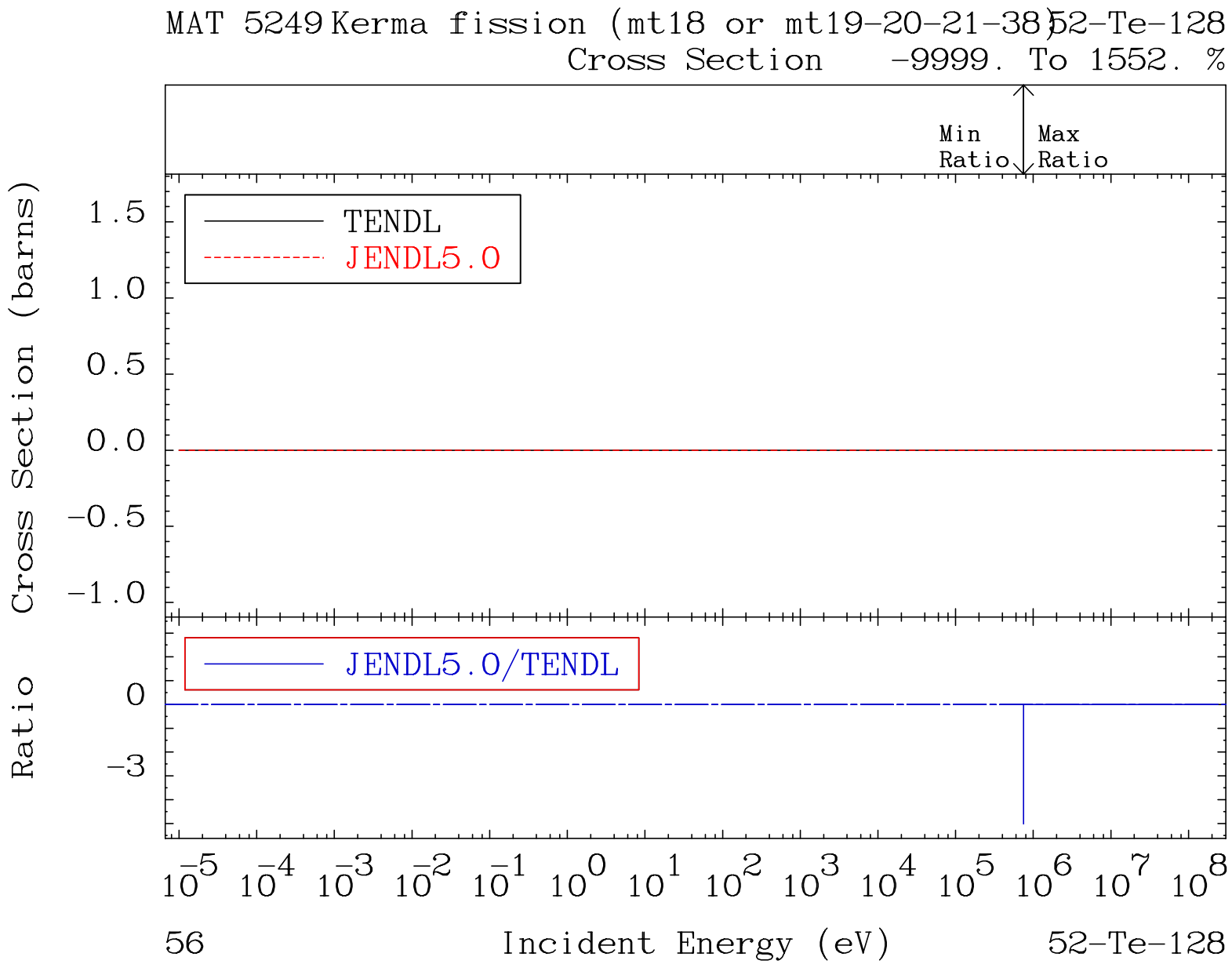

MAT 5249
He-4 Production
Cross Section
52-Te-128
-99.52 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 21.821 keV
JENDL5.0 Threshold 8.0000 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
10^3
10^0
10^-3
10^4
10^5
10^6
10^7
10^8
51
Incident Energy (eV)
52-Te-128

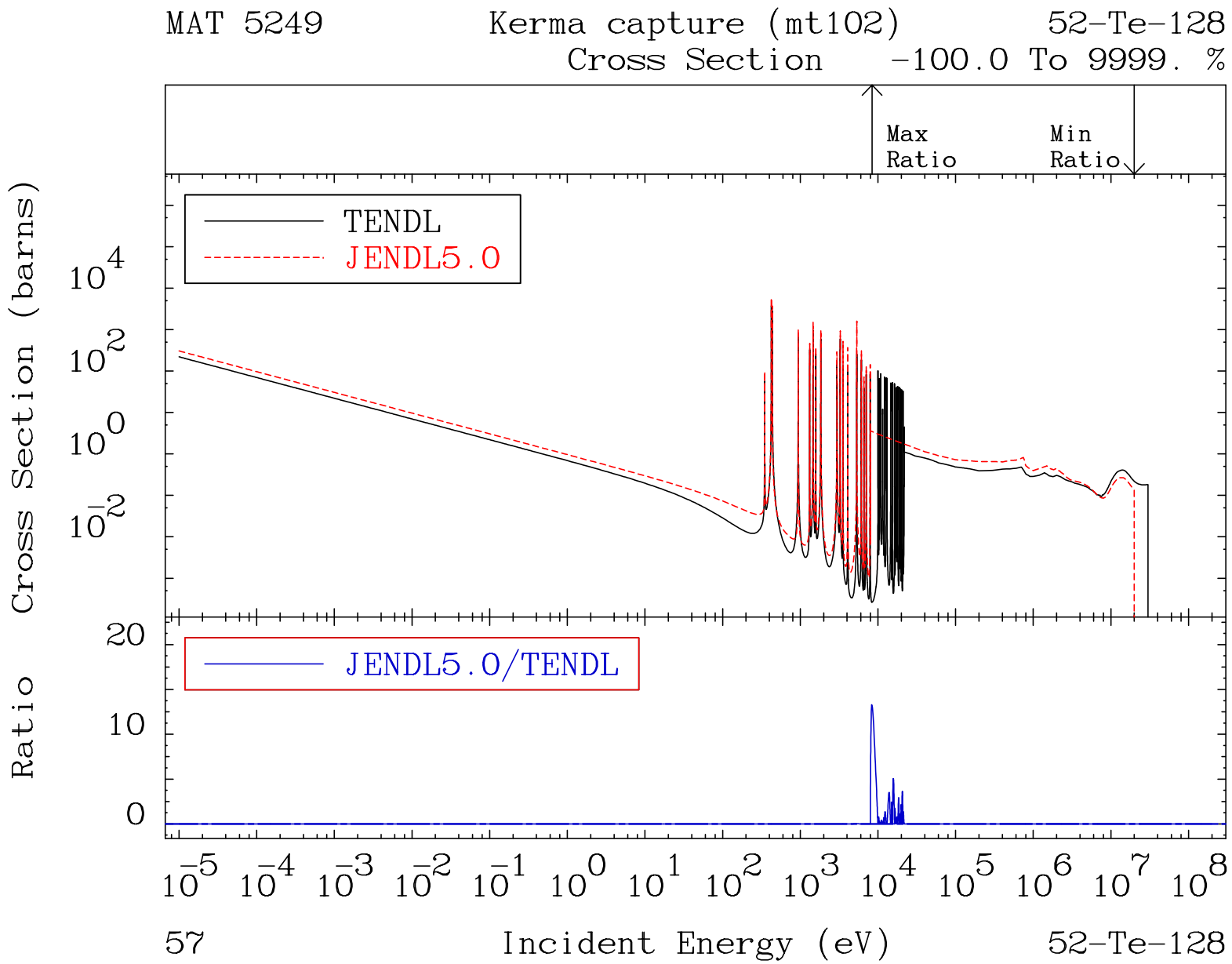

MAT 5249
Kerma total (eV-barns)
52-Te-128
Cross Section -96.77 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
52-Te-128

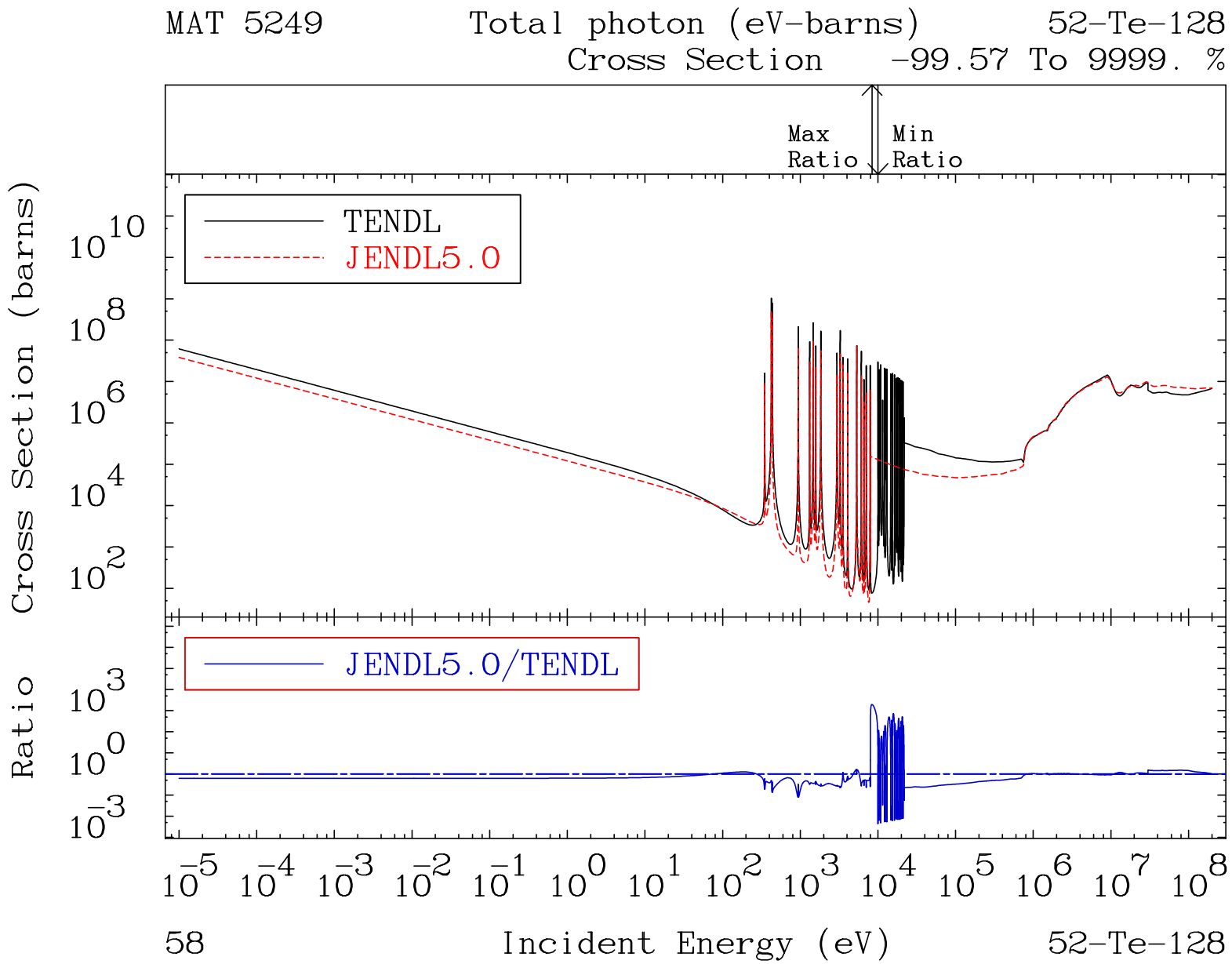

MAT 5249
Kerma elastic
Cross Section
52-Te-128
-96.78 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
52-Te-128

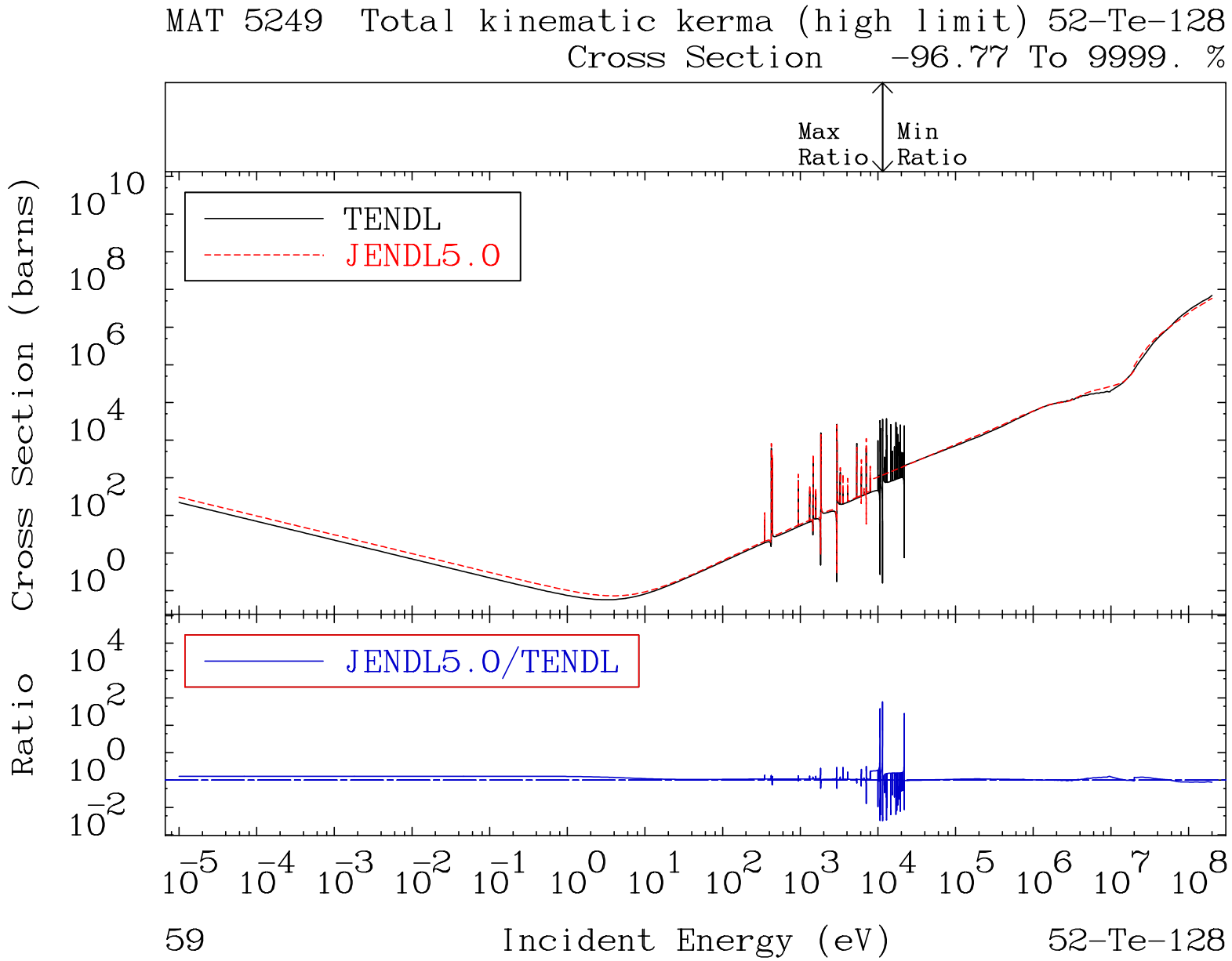

MAT 5249 Kerma non-elastic (all but mt2) 52-Te-128
Cross Section -97.03 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
52-Te-128

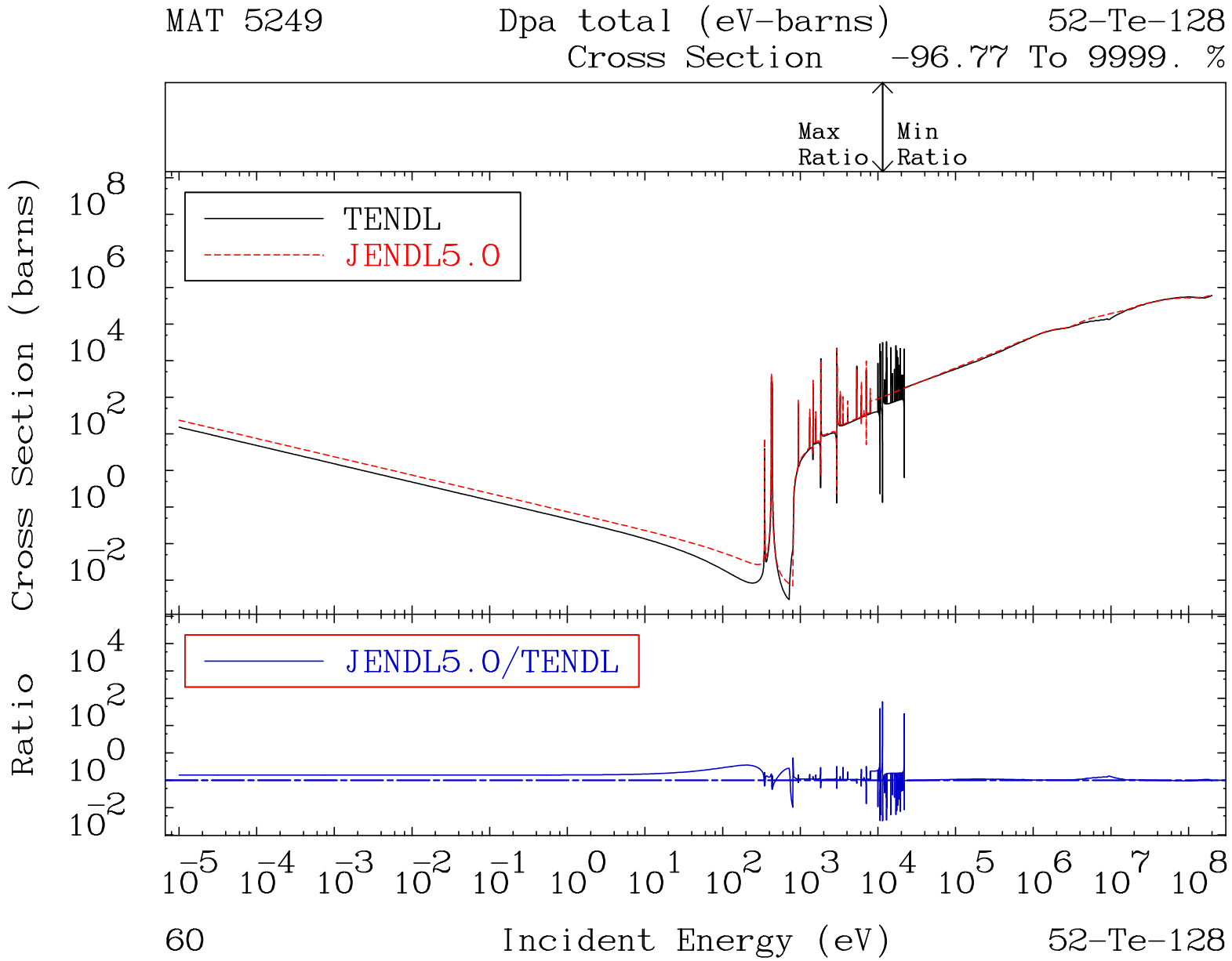

MAT 5249
Kerma inelastic (mt51-91)
52-Te-128
Cross Section -9999. To 1552. %
Min Ratio
Max Ratio
TENDL Threshold 749.08 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Ratio Cross Section (kilo-barns)
300
250
200
150
100
50
0
0
-3
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
55
Incident Energy (eV)
52-Te-128

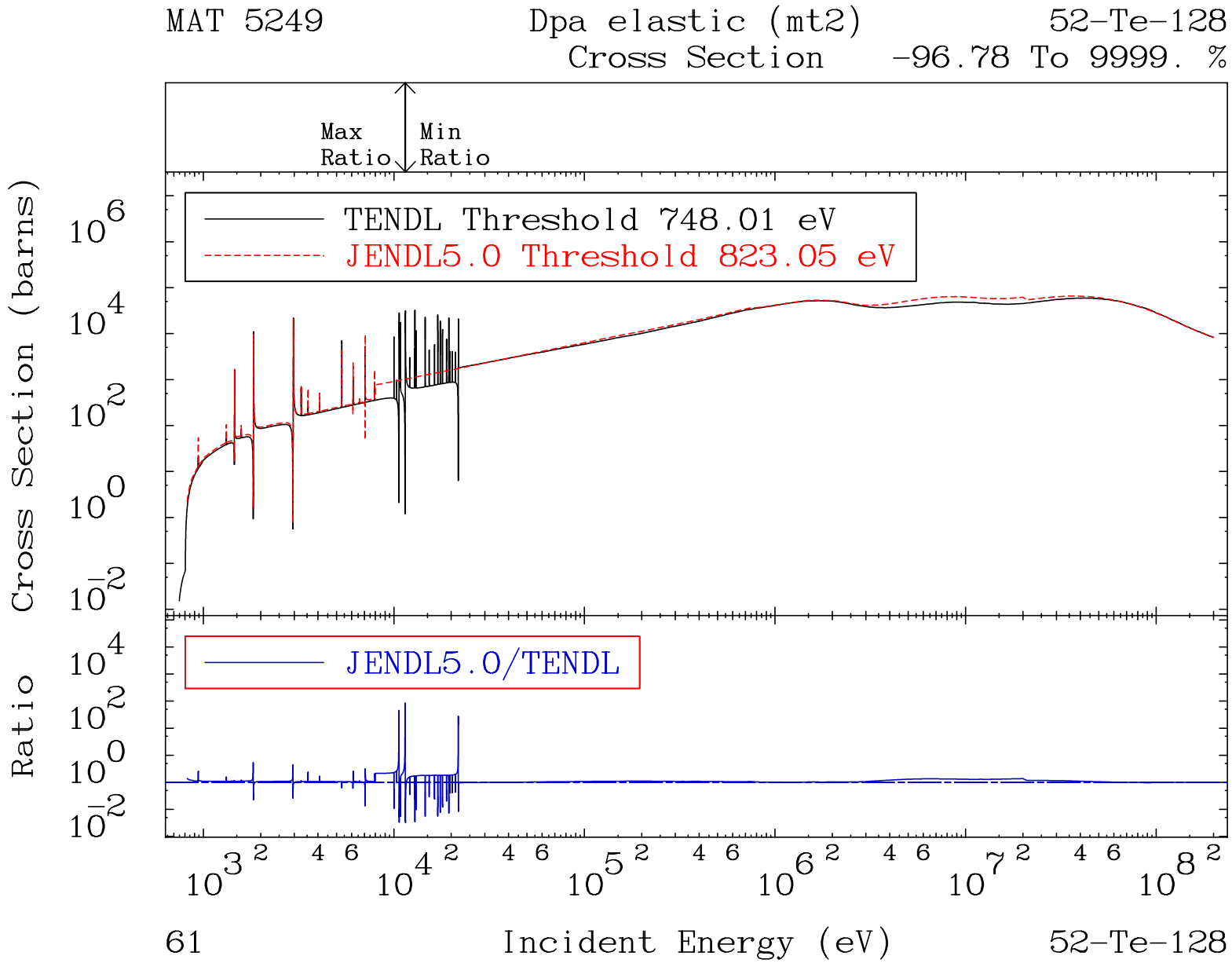

MAT 5249 Kerma fission (mt18 or mt19-20-21-38) 52-Te-128
Cross Section -9999. To 1552. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
0
-3
$10^{-5}$ $10^{-4}$ $10^{-3}$ $10^{-2}$ $10^{-1}$ $10^{0}$ $10^{1}$ $10^{2}$ $10^{3}$ $10^{4}$ $10^{5}$ $10^{6}$ $10^{7}$ $10^{8}$
56
Incident Energy (eV)
52-Te-128

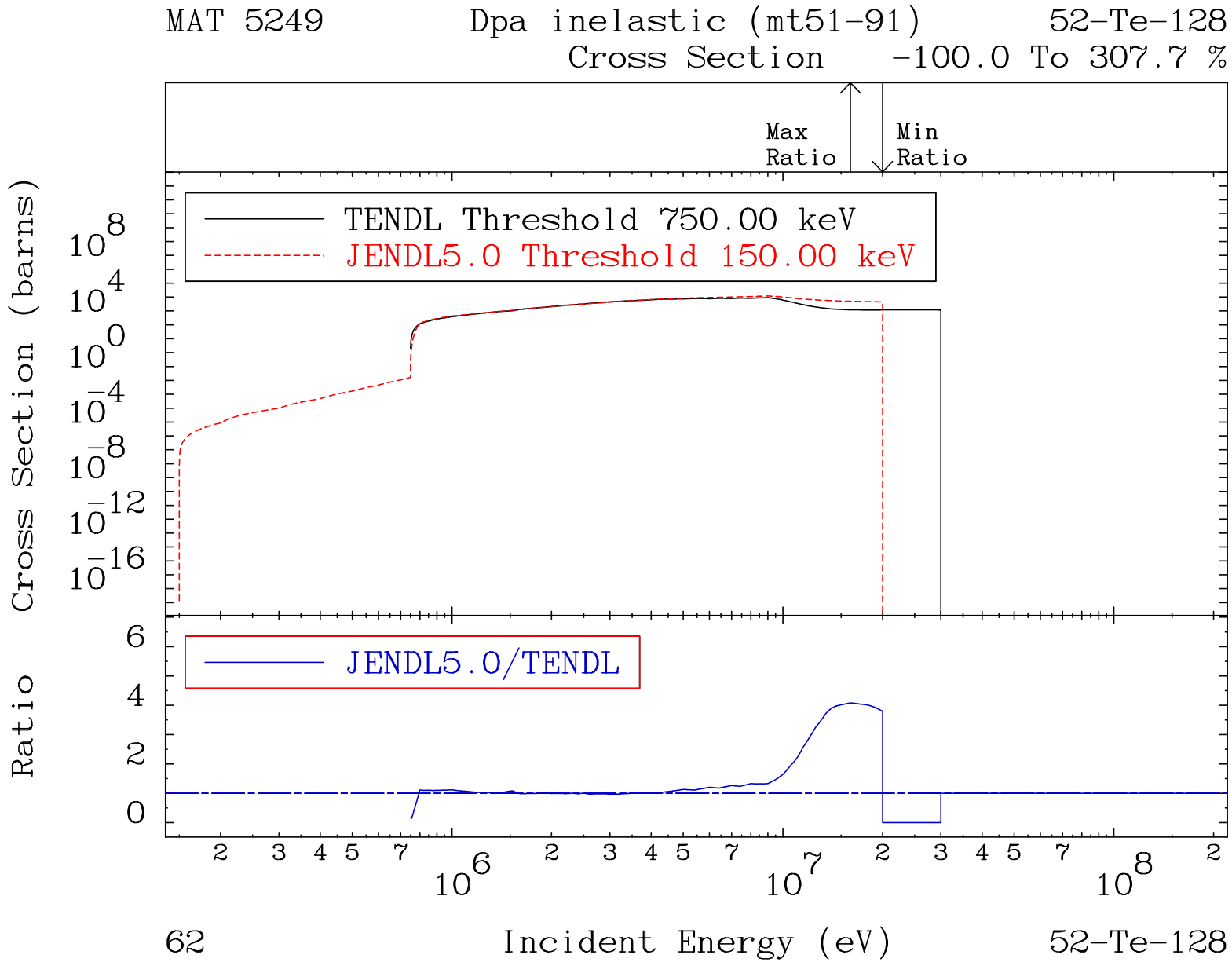

MAT 5249
Kerma capture (mt102)
52-Te-128
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
57
52-Te-128

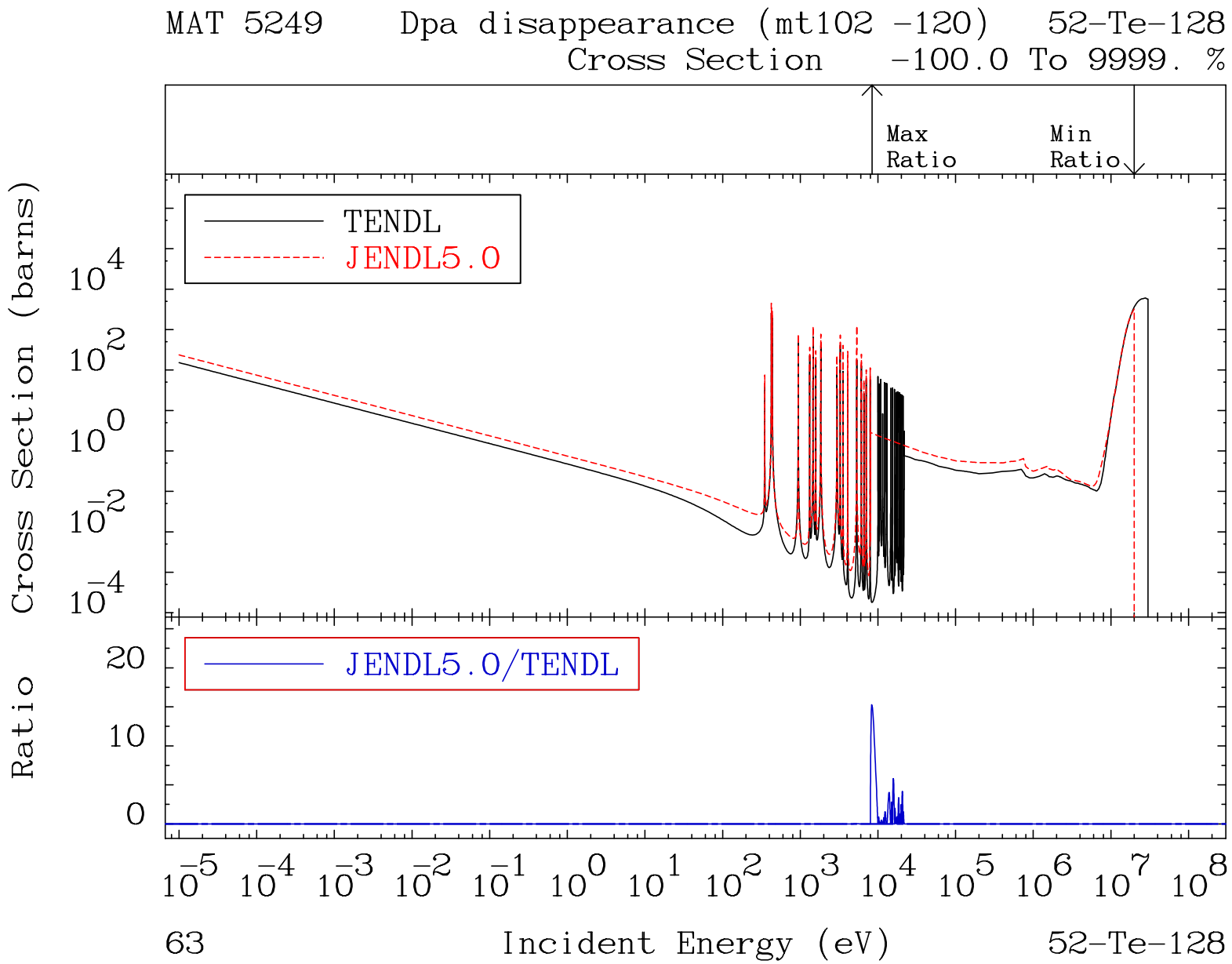

MAT 5249
Total photon (eV-barns)
52-Te-128
Cross Section -99.57 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
58
52-Te-128

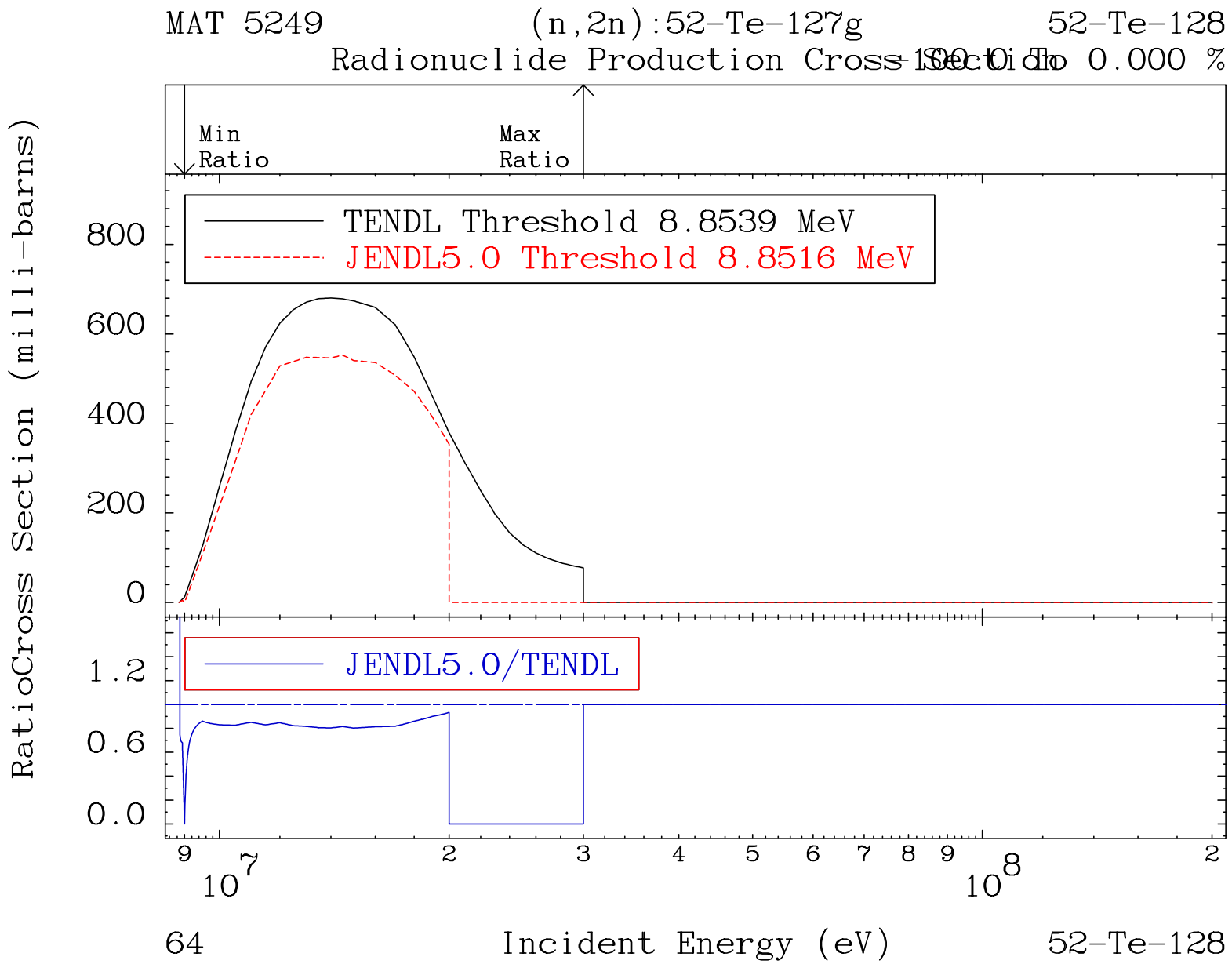

MAT 5249 Total kinematic kerma (high limit) 52-Te-128
Cross Section -96.77 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
59
52-Te-128

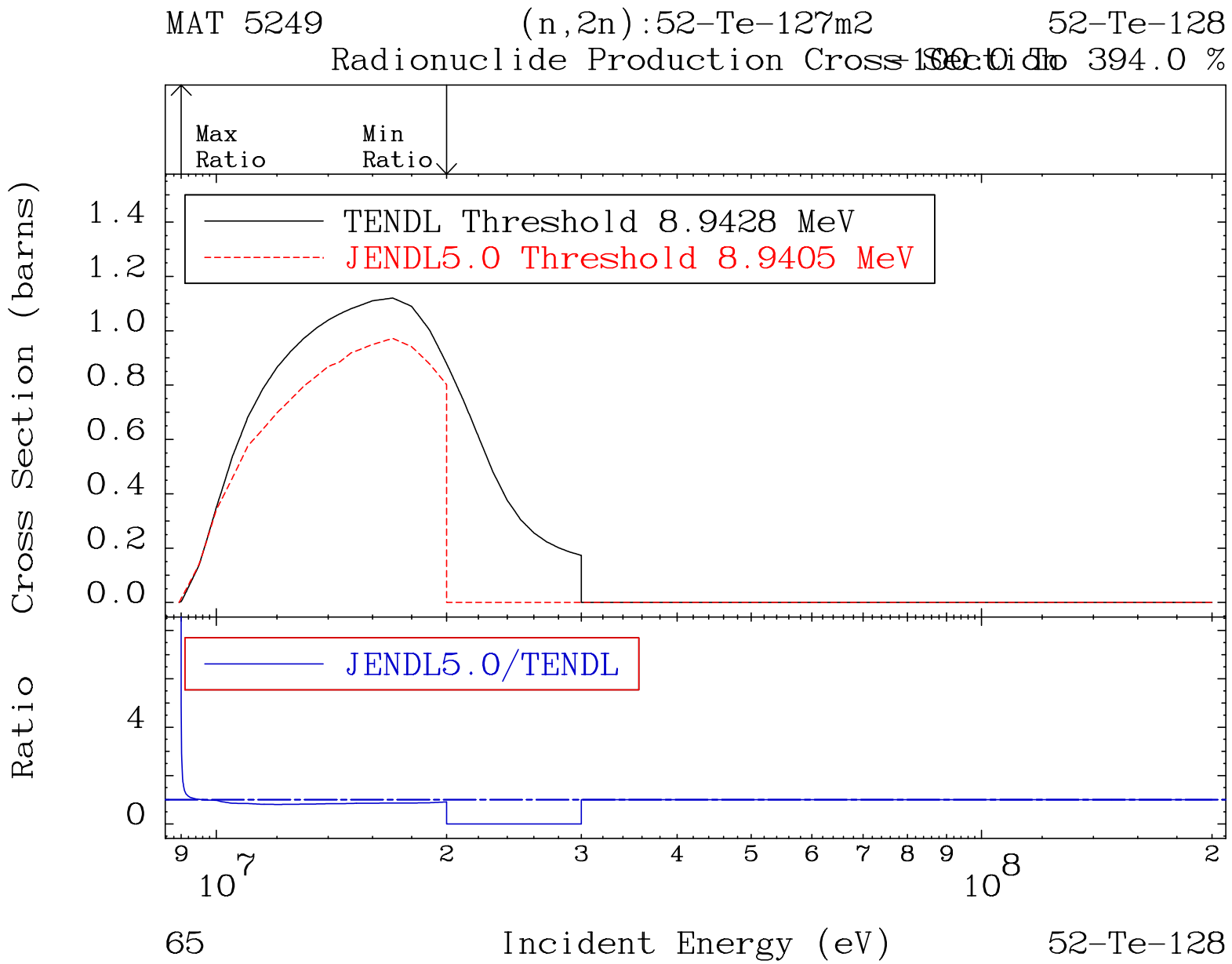

MAT 5249
Dpa total (eV-barns)
52-Te-128
Cross Section
-96.77 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
52-Te-128

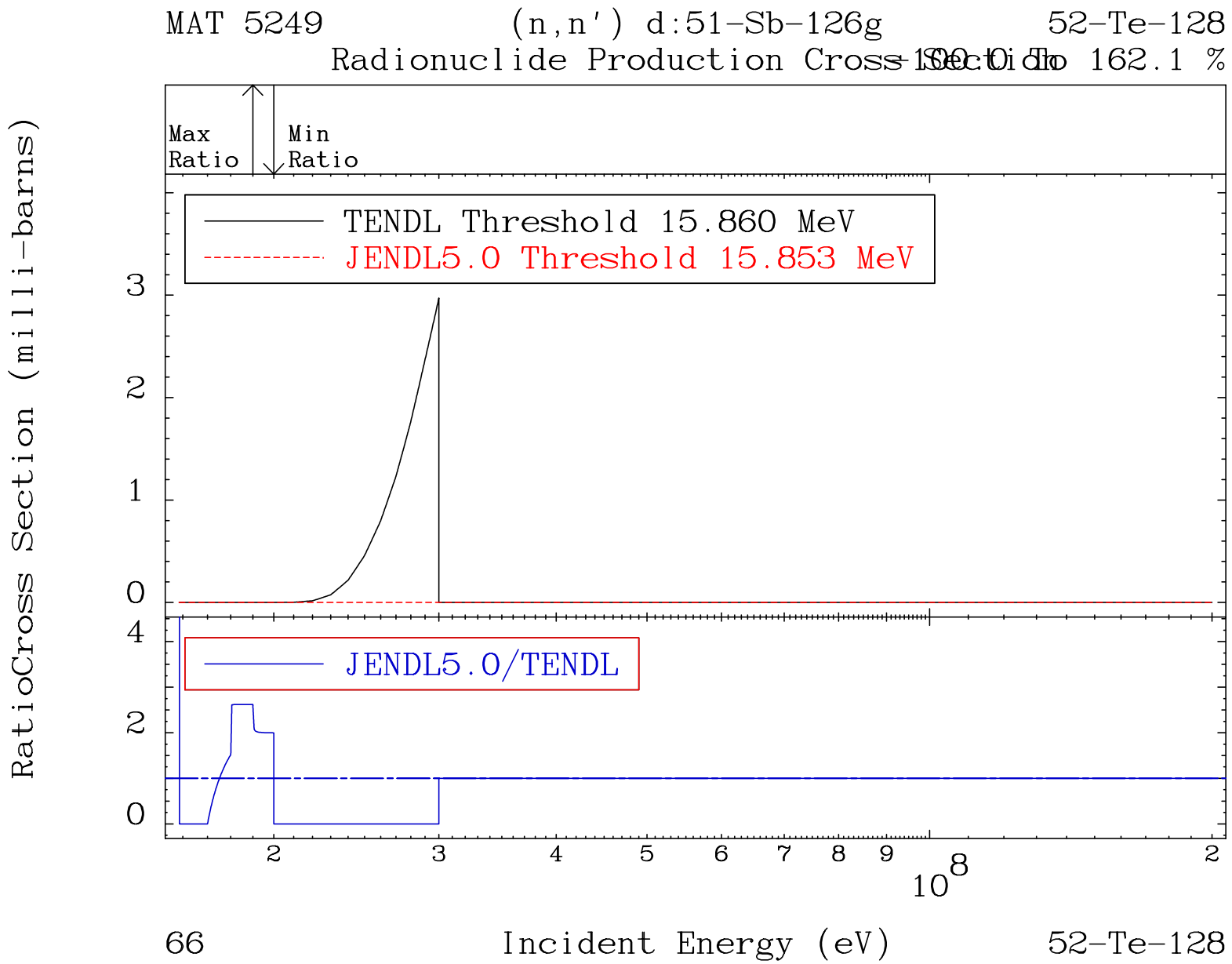

MAT 5249
Dpa elastic (mt2)
Cross Section
52-Te-128
-96.78 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 748.01 eV
JENDL5.0 Threshold 823.05 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
52-Te-128

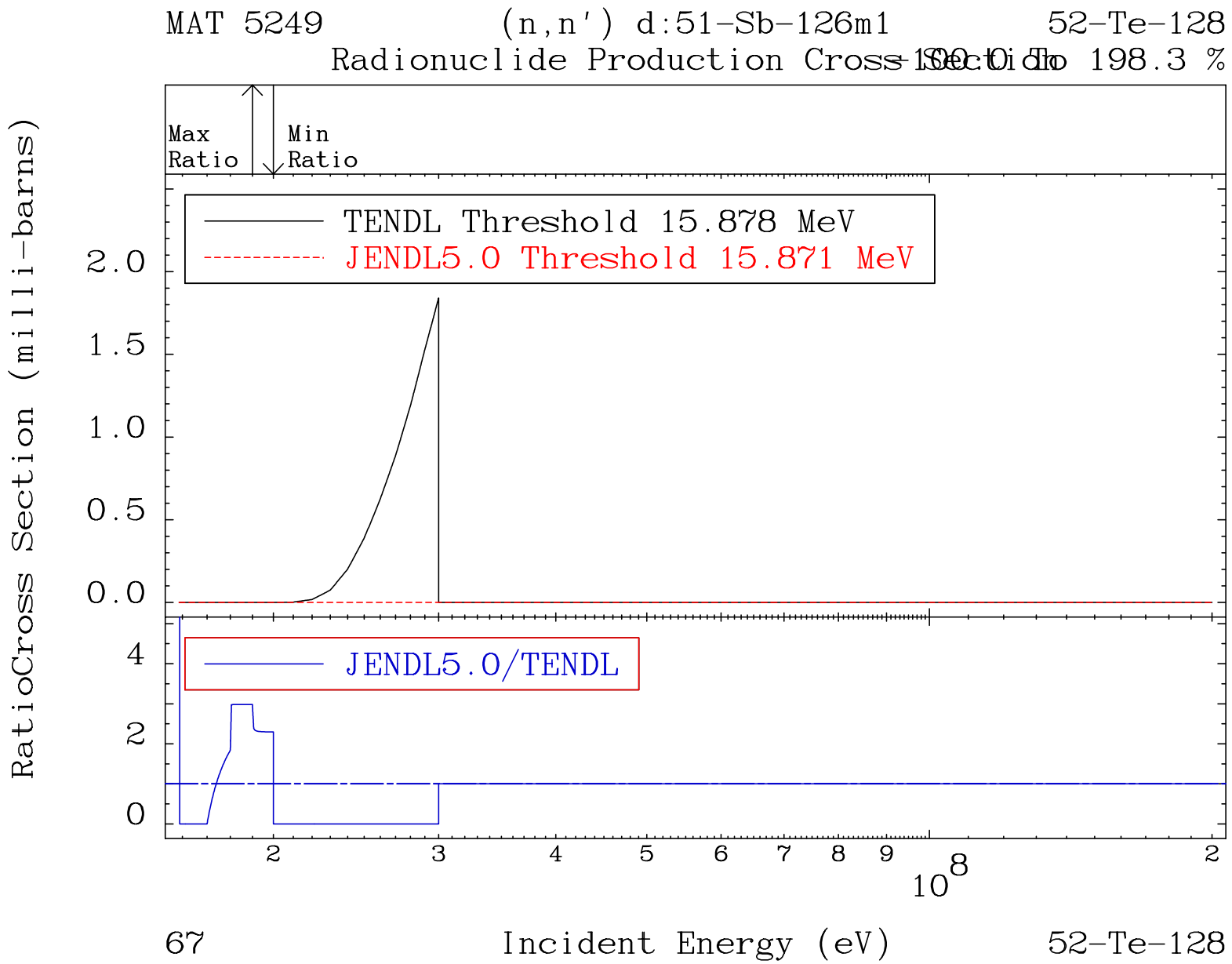

MAT 5249
Dpa inelastic (mt51-91)
52-Te-128
Cross Section
-100.0 To 307.7 %
Max Ratio
Min Ratio
TENDL Threshold 750.00 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
52-Te-128

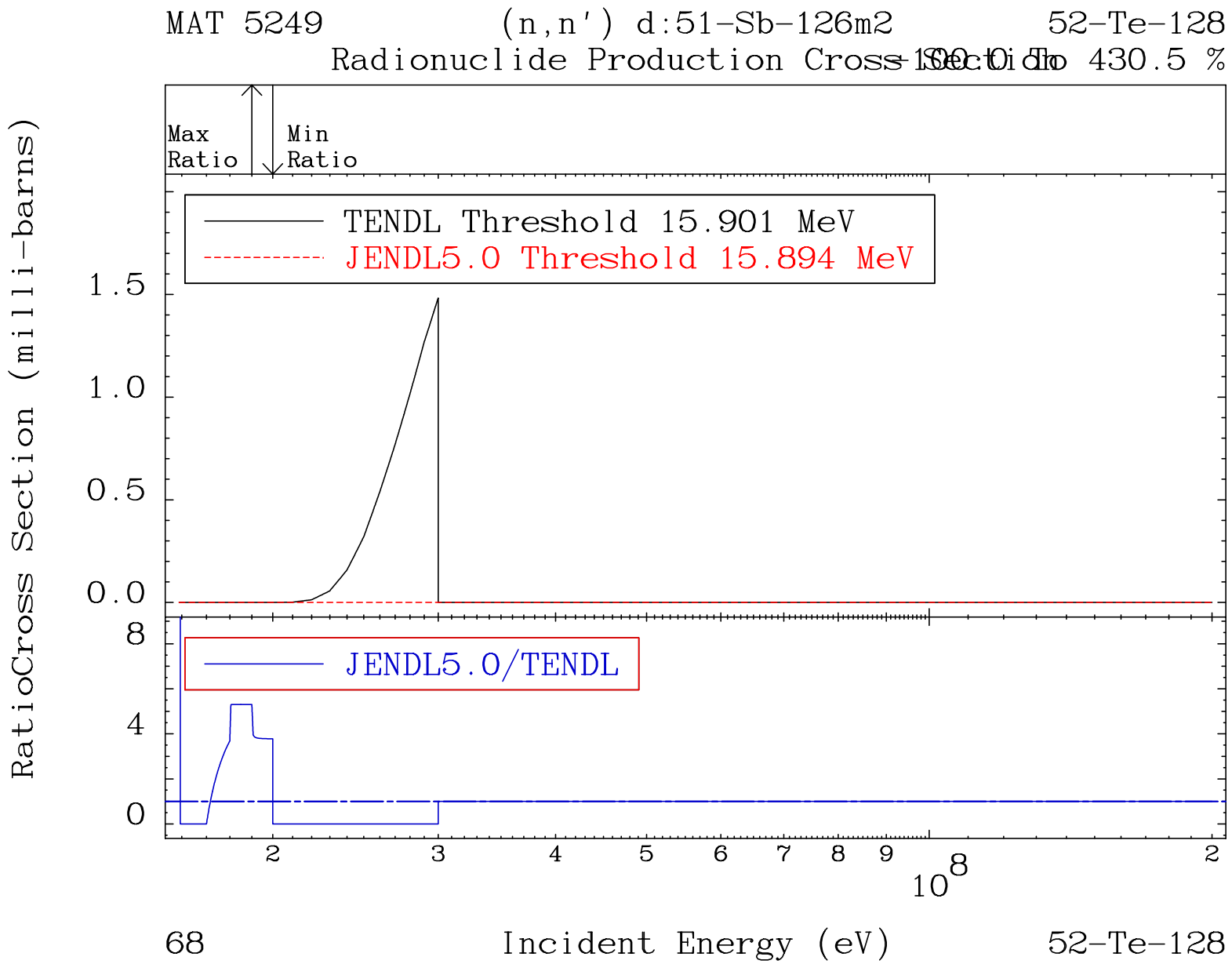

MAT 5249 Dpa disappearance (mt102 -120) 52-Te-128
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
63
52-Te-128

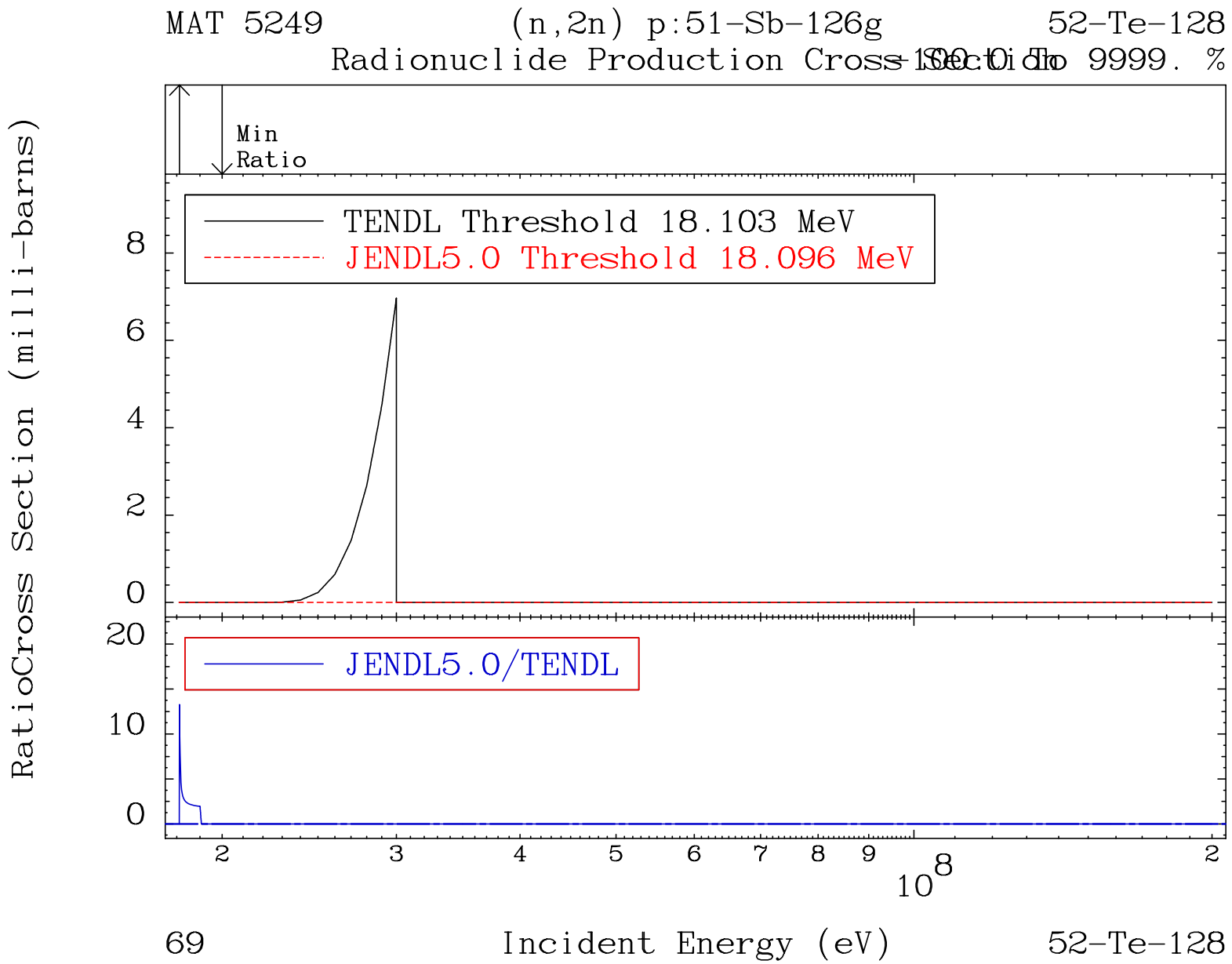

MAT 5249
(n,2n):52-Te-127g
52-Te-128
Radionuclide Production Cross Section
Isotopic 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 8.8539 MeV
JENDL5.0 Threshold 8.8516 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
52-Te-128

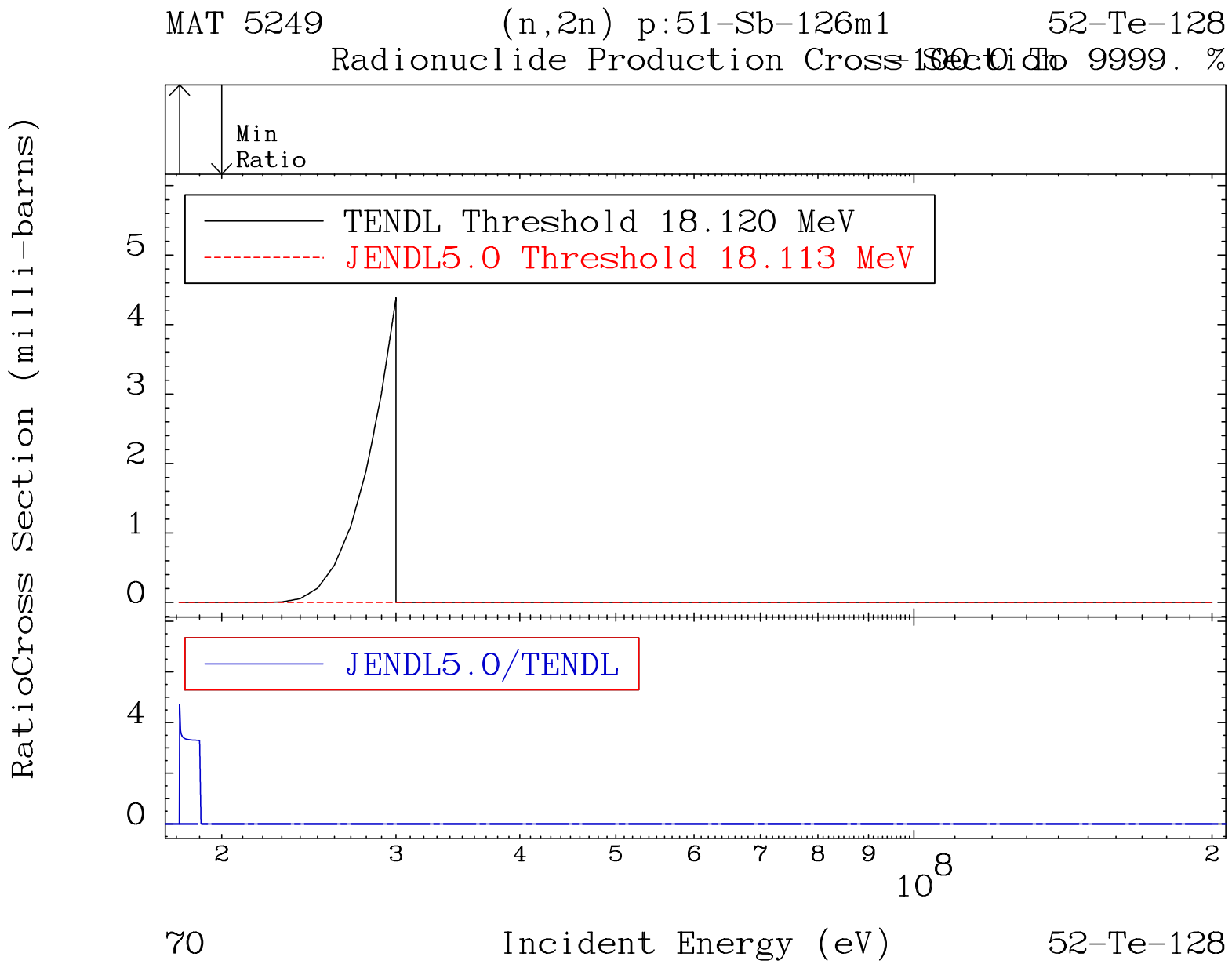

MAT 5249
(n,2n):52-Te-127m2
52-Te-128
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 8.9428 MeV
JENDL5.0 Threshold 8.9405 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
52-Te-128

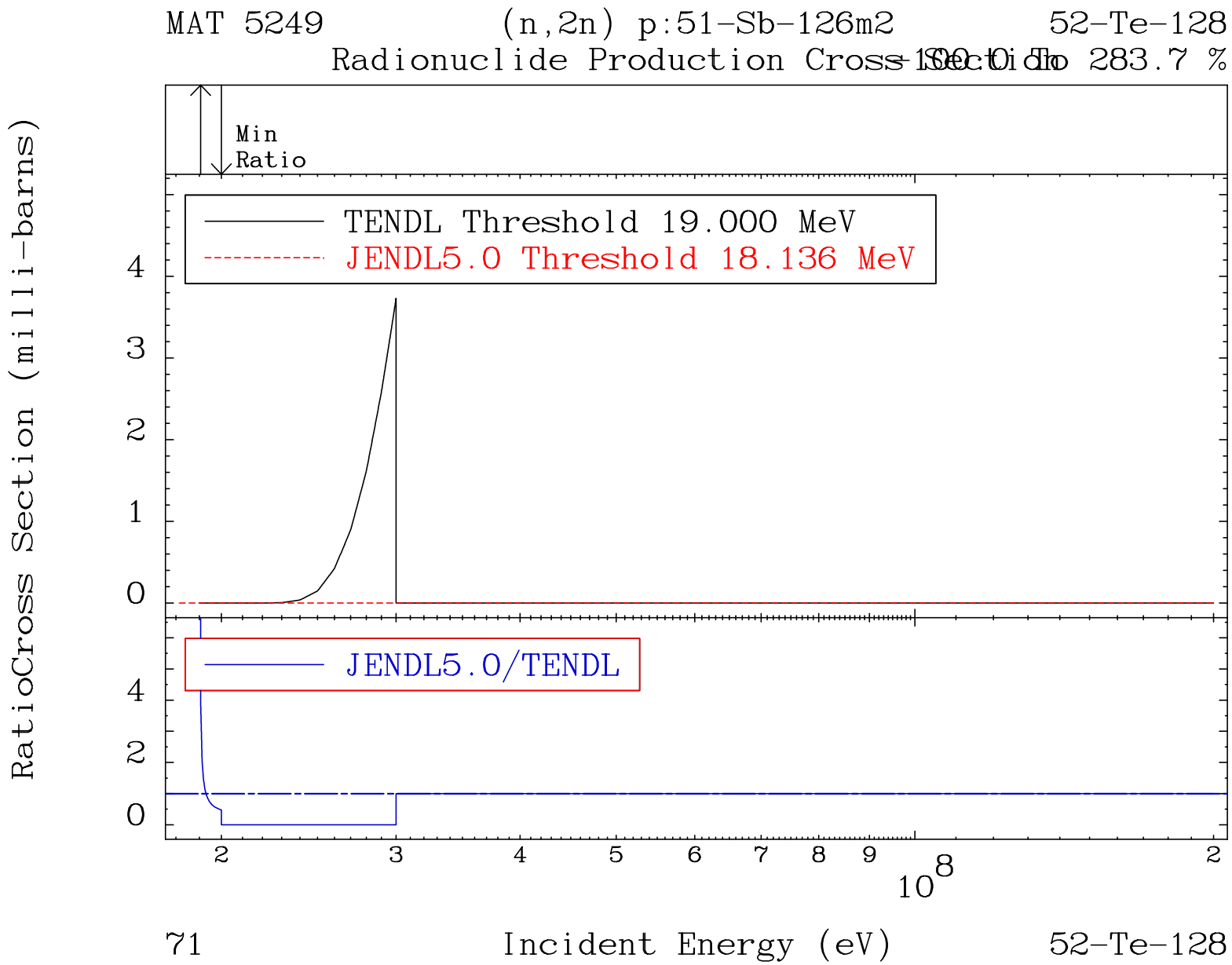

MAT 5249
(n,n') d:51-Sb-126g
52-Te-128
Radionuclide Production Cross Section To 162.1 %
Max Ratio
Min Ratio
TENDL Threshold 15.860 MeV
JENDL5.0 Threshold 15.853 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
66
52-Te-128

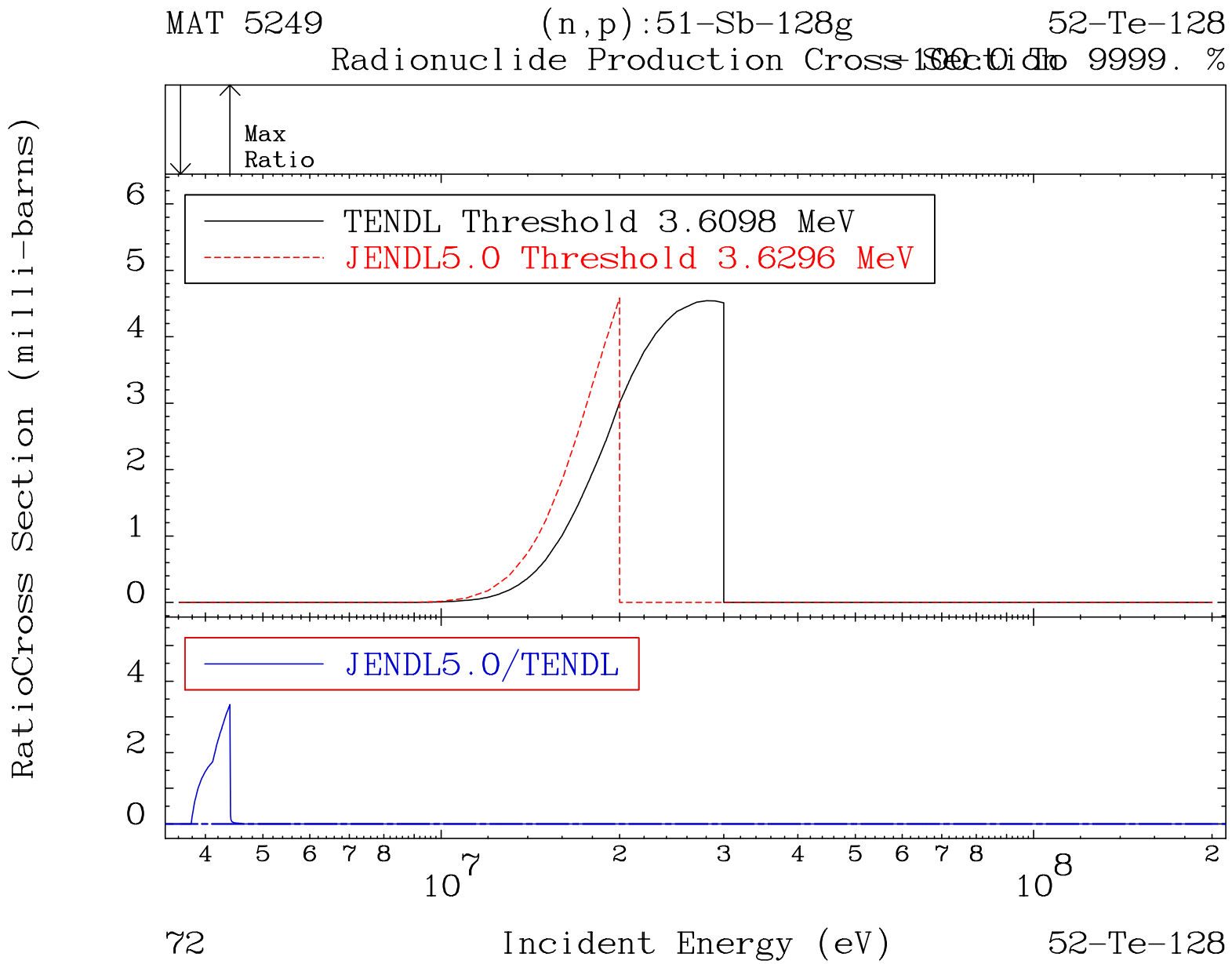

MAT 5249
(n,n') d:51-Sb-126m1
52-Te-128
Radionuclide Production Cross Section to 198.3 %
Max Ratio
Min Ratio
TENDL Threshold 15.878 MeV
JENDL5.0 Threshold 15.871 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
67
Incident Energy (eV)
52-Te-128

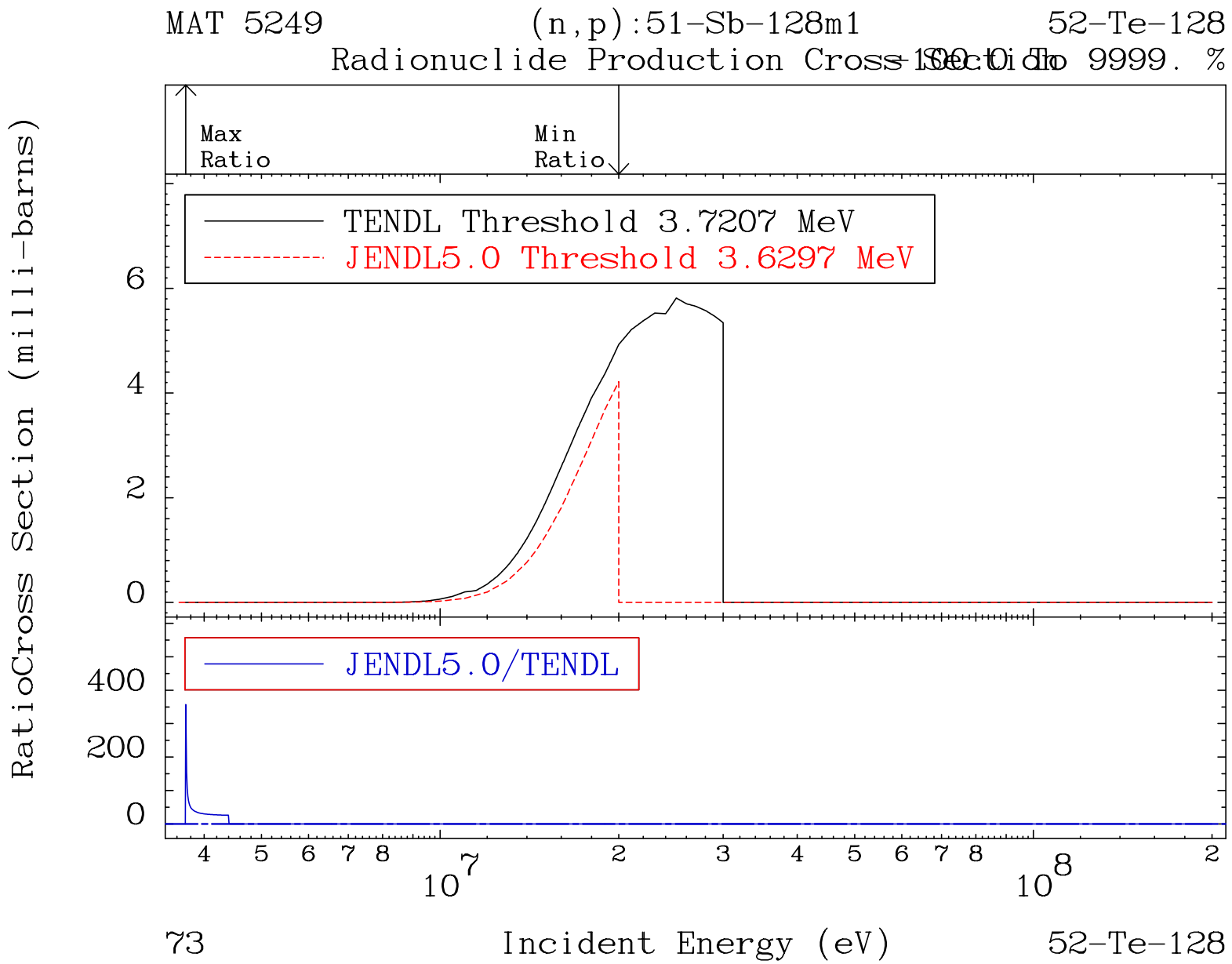

MAT 5249
(n,n') d:51-Sb-126m2
52-Te-128
Radionuclide Production Cross Section To 430.5 %
Max Ratio
Min Ratio
TENDL Threshold 15.901 MeV
JENDL5.0 Threshold 15.894 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.5
1.0
0.5
0.0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
68
Incident Energy (eV)
52-Te-128

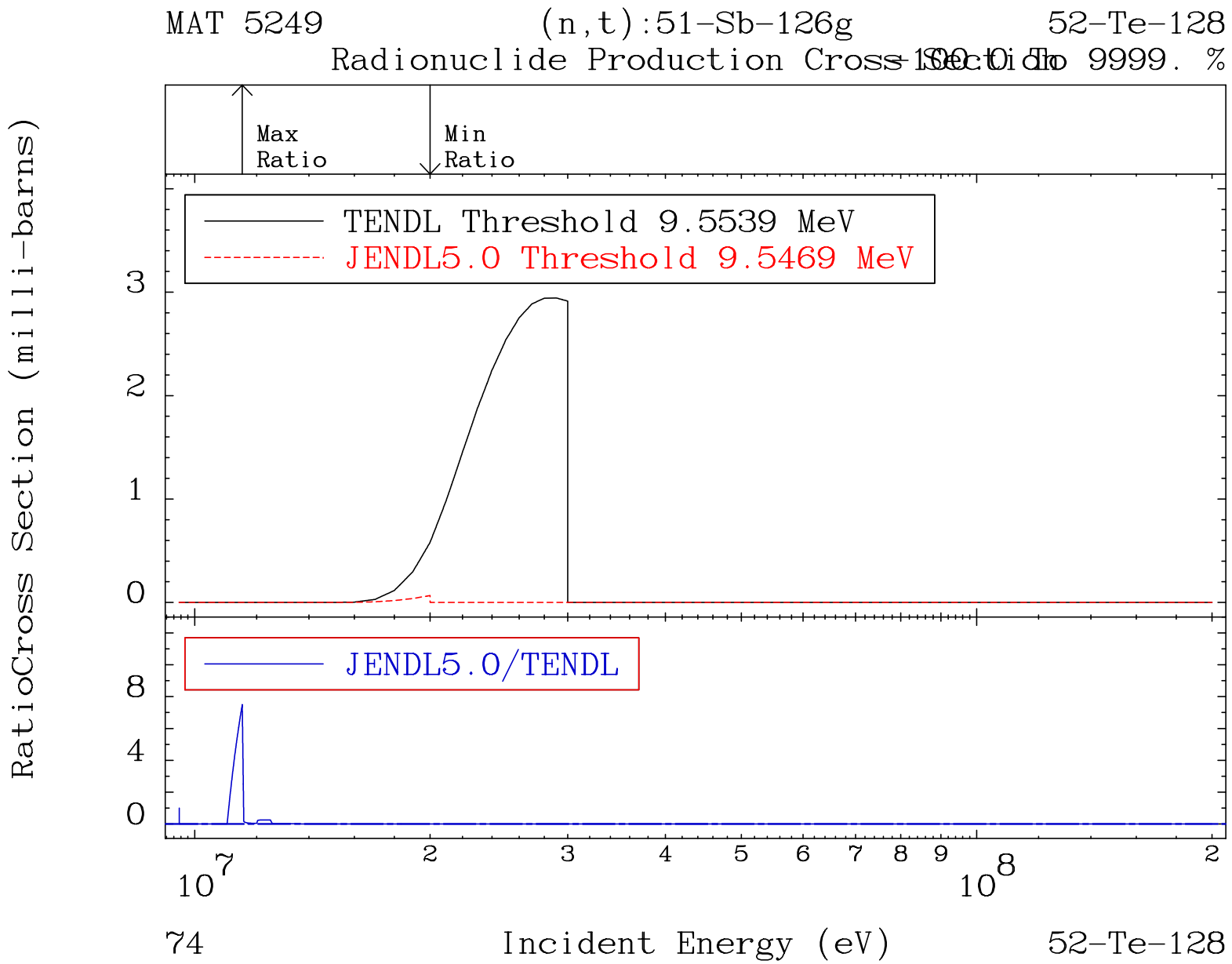

MAT 5249
(n,2n) p:51-Sb-126g
52-Te-128
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 18.103 MeV
JENDL5.0 Threshold 18.096 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
52-Te-128

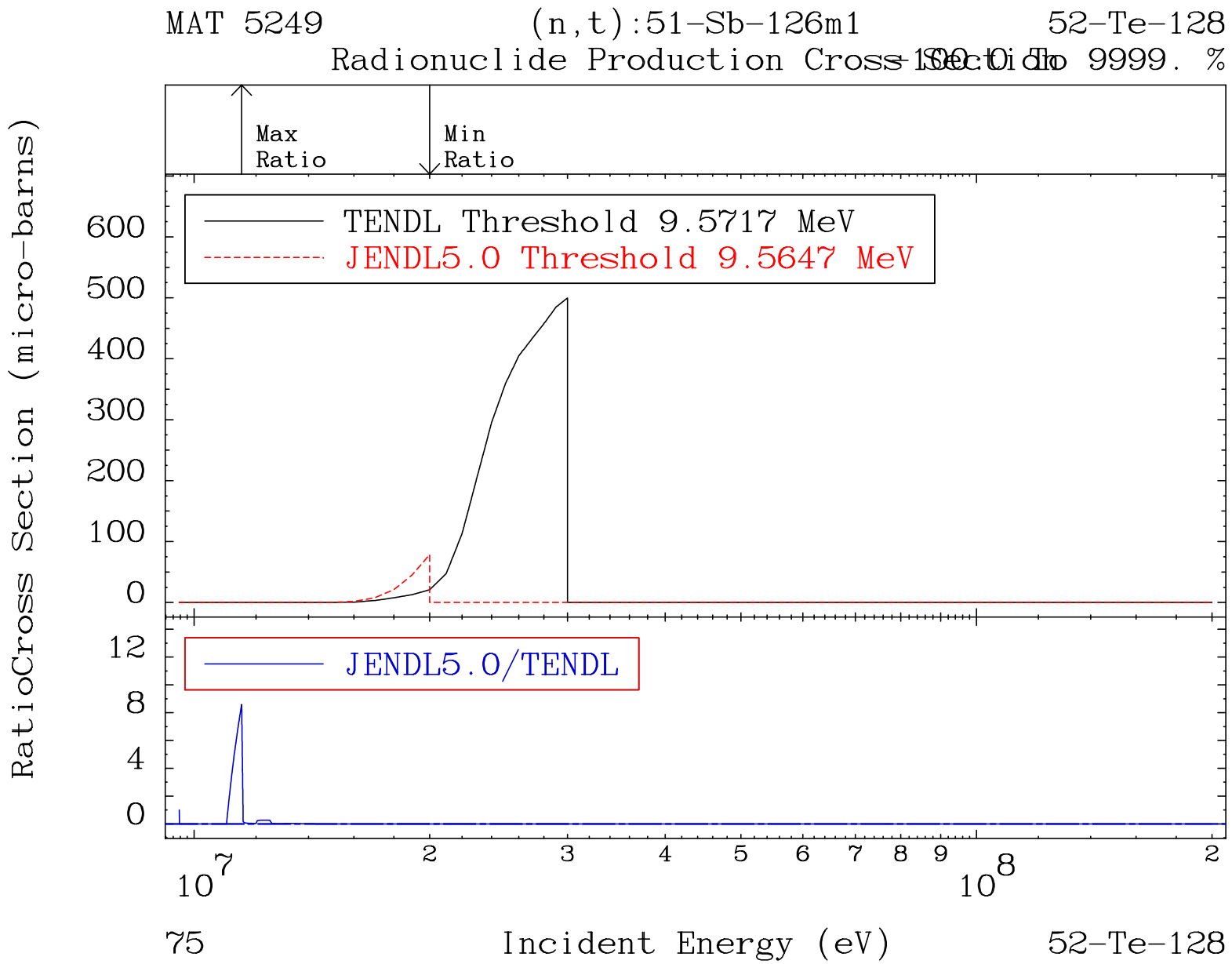

MAT 5249
(n,2n) p:51-Sb-126m1
52-Te-128
Radionuclide Production Cross Section To 9999. %
Min
Ratio
TENDL Threshold 18.120 MeV
JENDL5.0 Threshold 18.113 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
70
52-Te-128

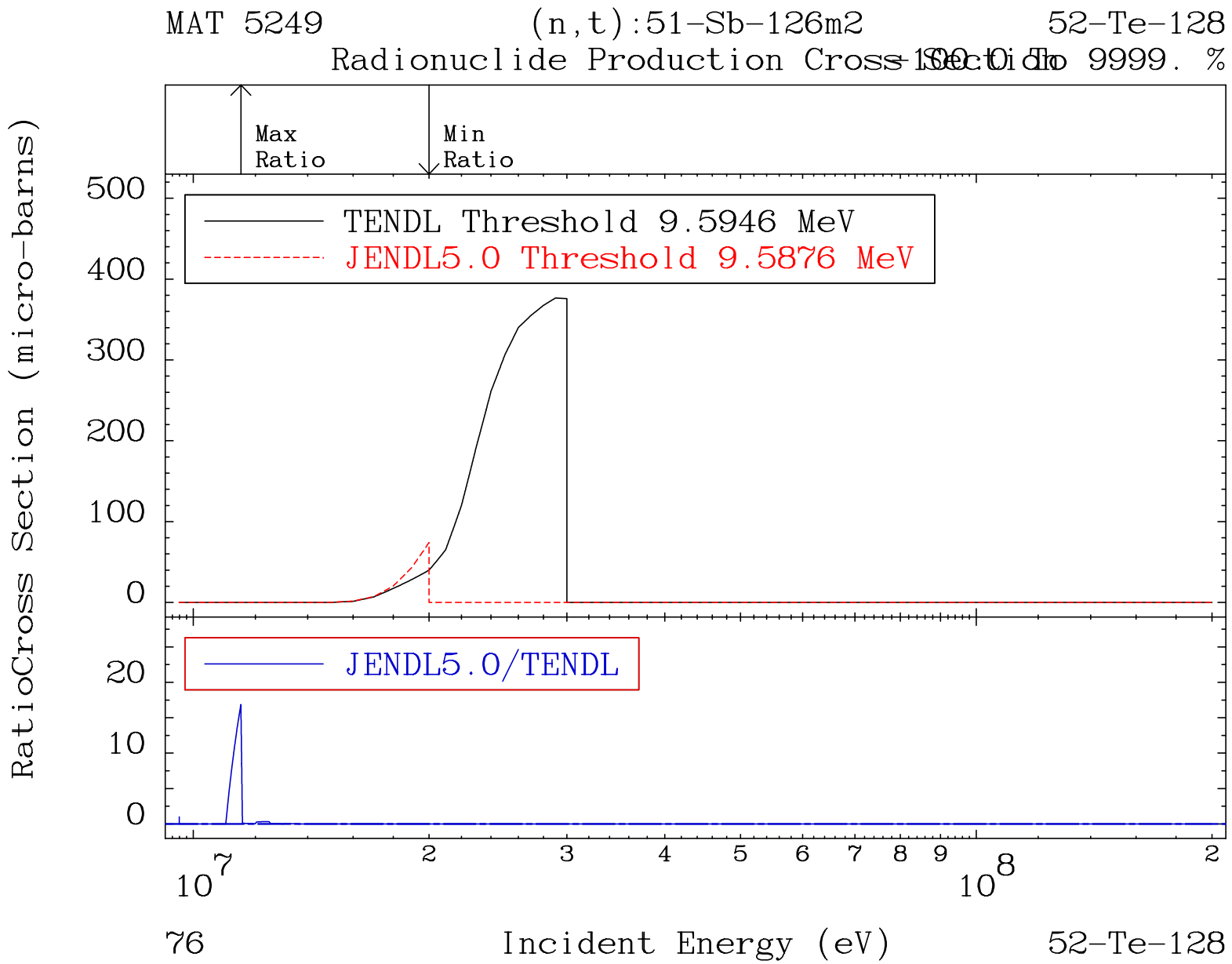

MAT 5249
(n,2n) p:51-Sb-126m2
52-Te-128
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 19.000 MeV
JENDL5.0 Threshold 18.136 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
52-Te-128


MAT 5249
(n,p):51-Sb-128g
52-Te-128
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 3.6098 MeV
JENDL5.0 Threshold 3.6296 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
72
52-Te-128


MAT 5249
(n,p):51-Sb-128m1
52-Te-128
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 3.7207 MeV
JENDL5.0 Threshold 3.6297 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
73
52-Te-128


MAT 5249
(n,t):51-Sb-126g
52-Te-128
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 9.5539 MeV
JENDL5.0 Threshold 9.5469 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
74
52-Te-128


MAT 5249
(n,t):51-Sb-126m1
52-Te-128
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 9.5717 MeV
JENDL5.0 Threshold 9.5647 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
75
52-Te-128


MAT 5249
(n,t):51-Sb-126m2
52-Te-128
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.5946 MeV
JENDL5.0 Threshold 9.5876 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
500
400
300
200
100
0
20
10
0
10^7
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
52-Te-128