Program Complot
(Version 2021-1)
by
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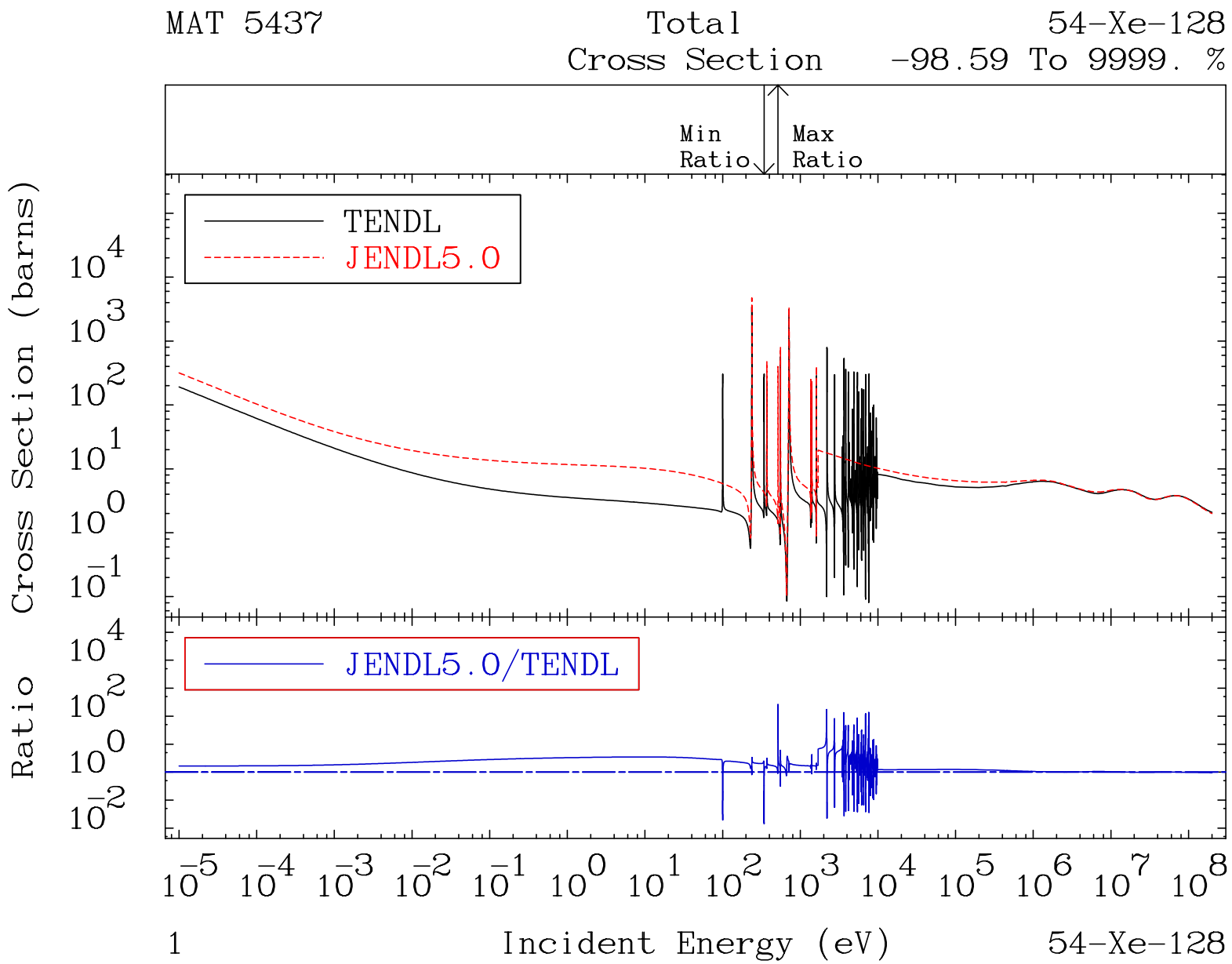
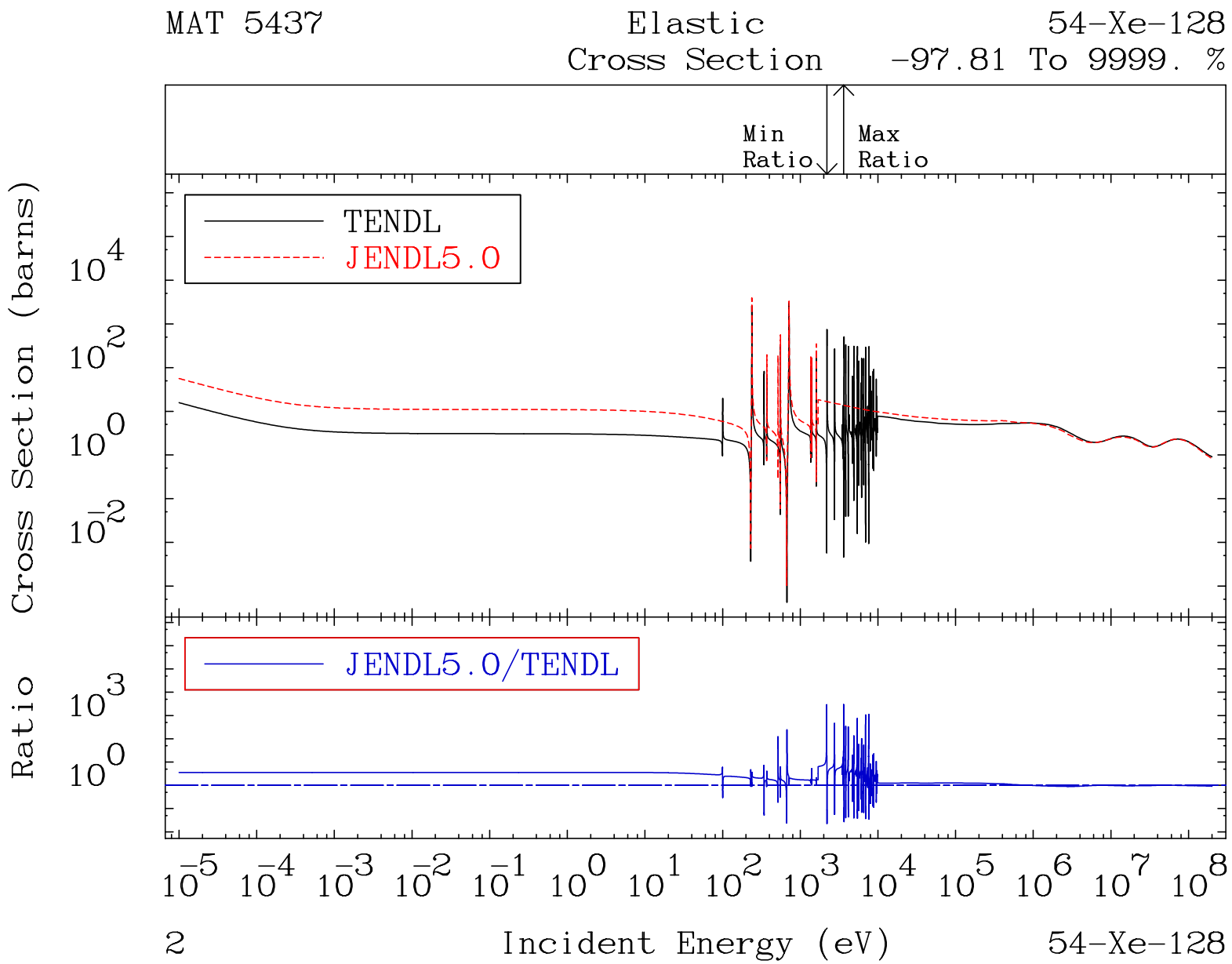
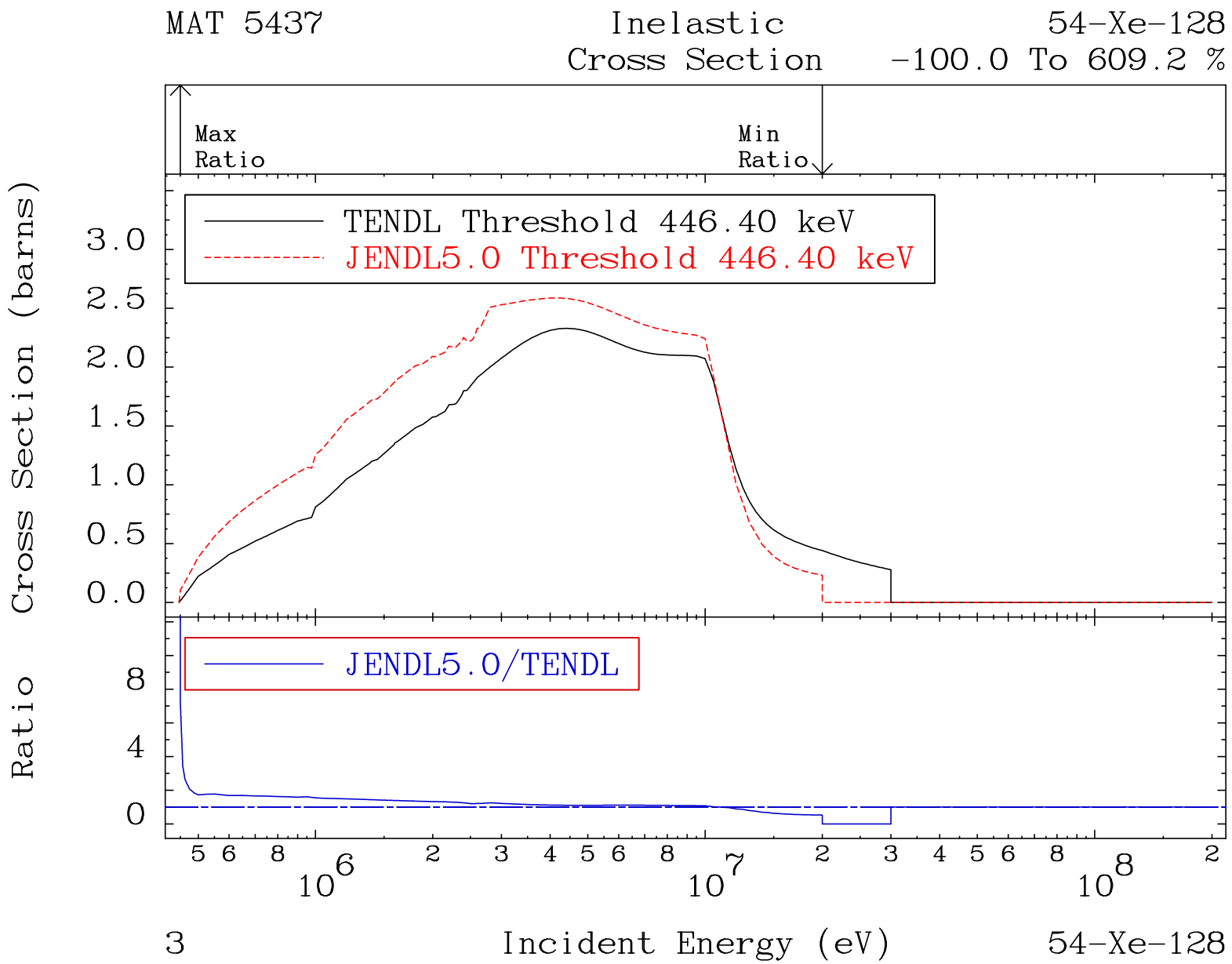
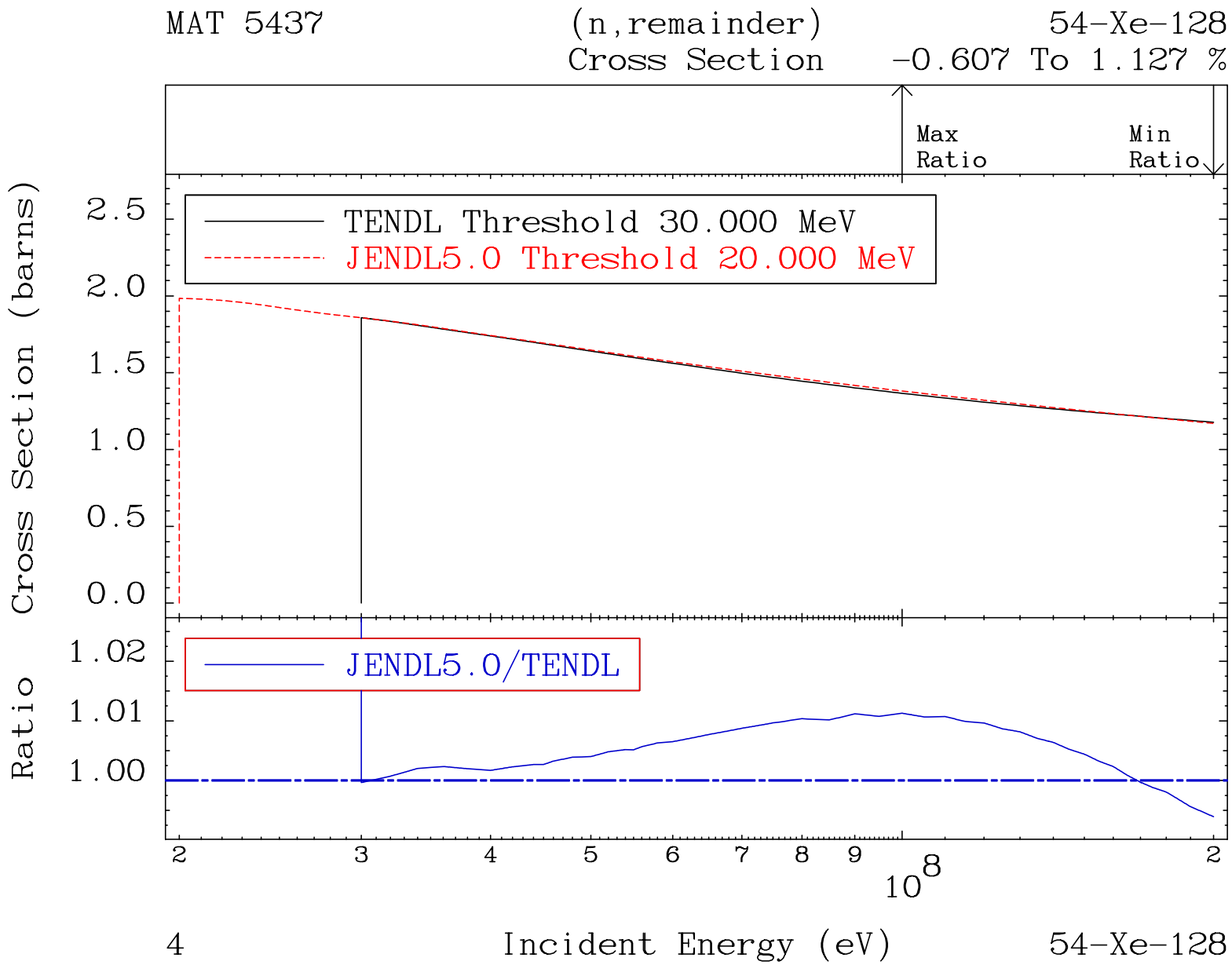
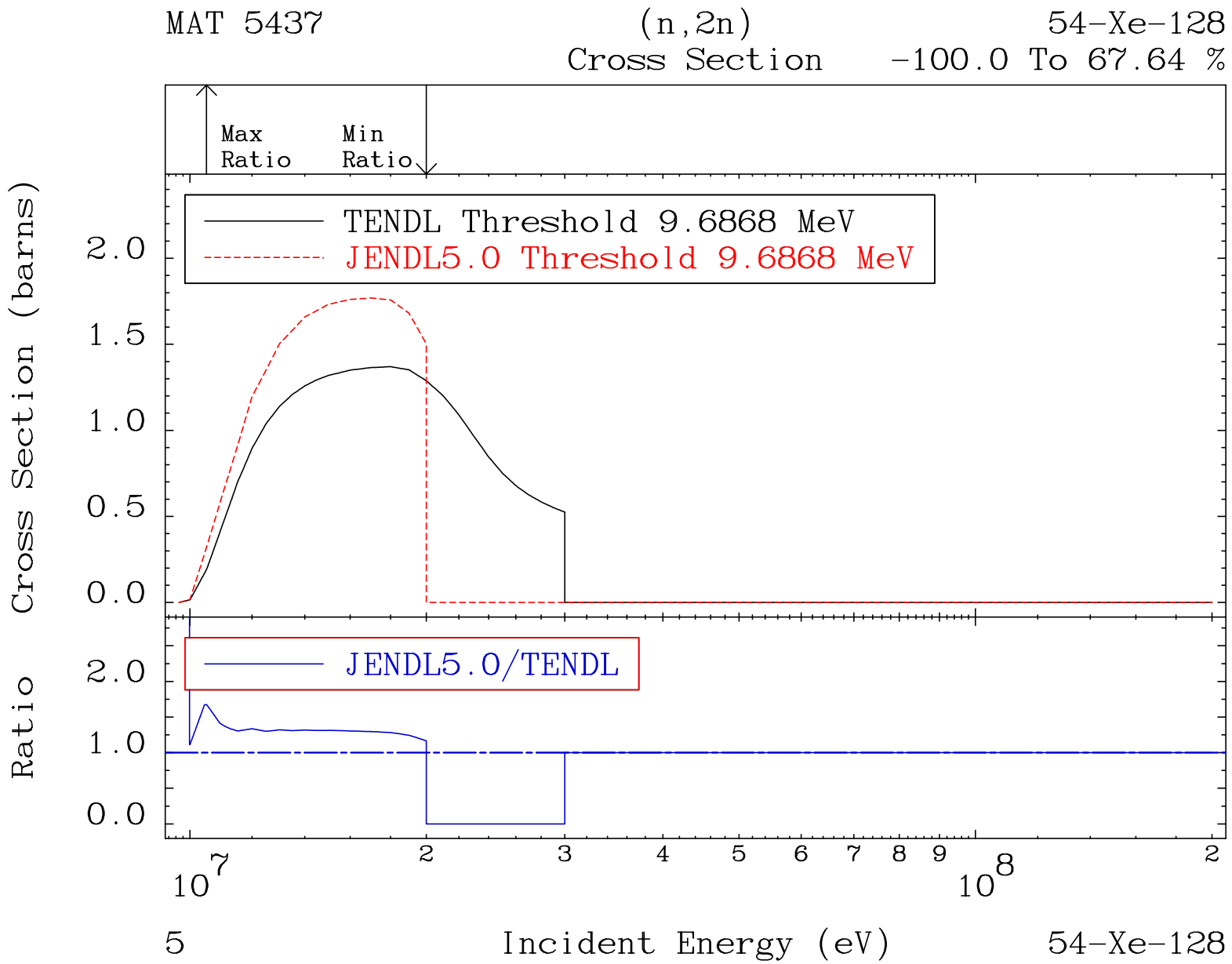
Press Mouse Button to Start

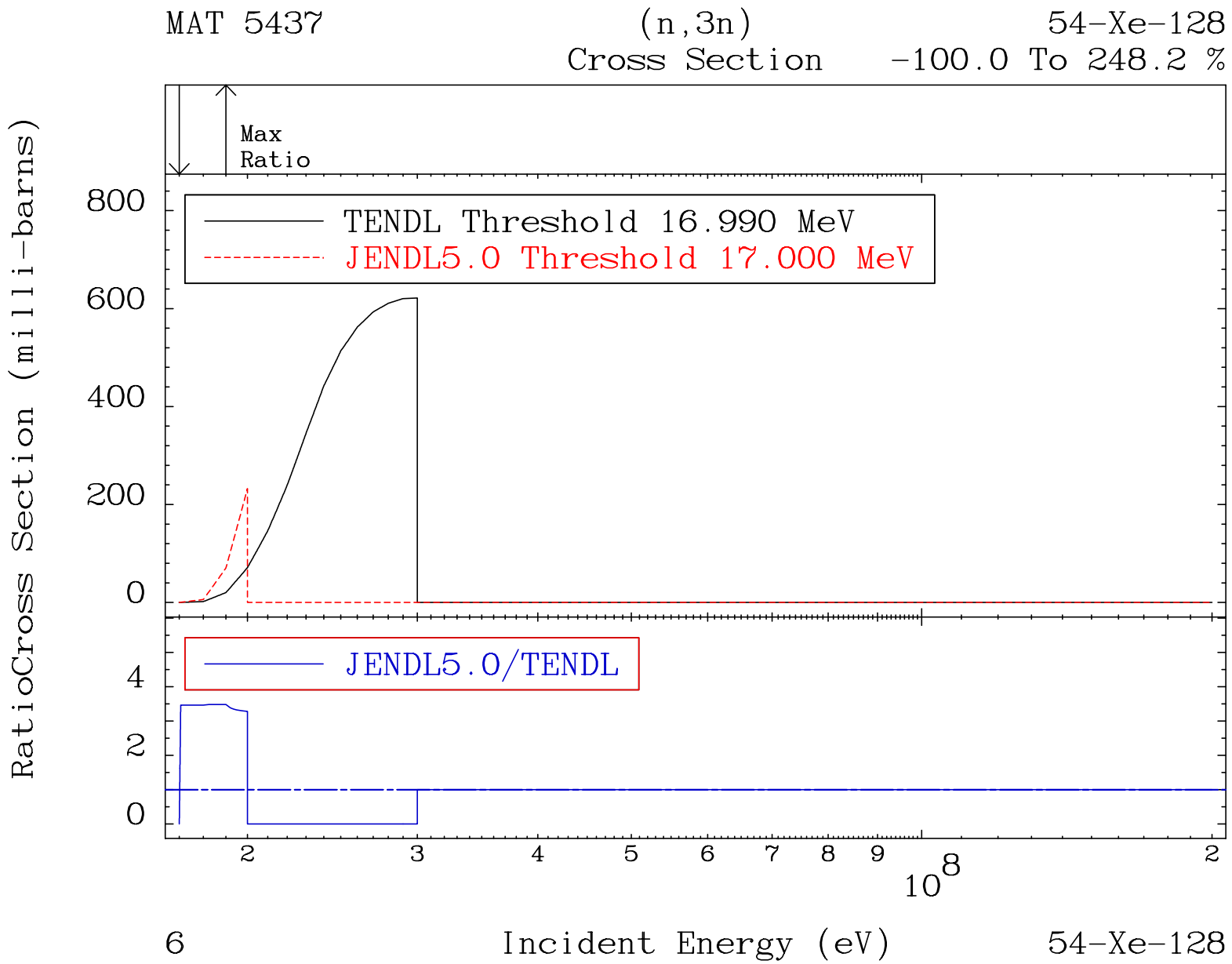

MAT 5437
Total
Cross Section
54-Xe-128
-98.59 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
54-Xe-128

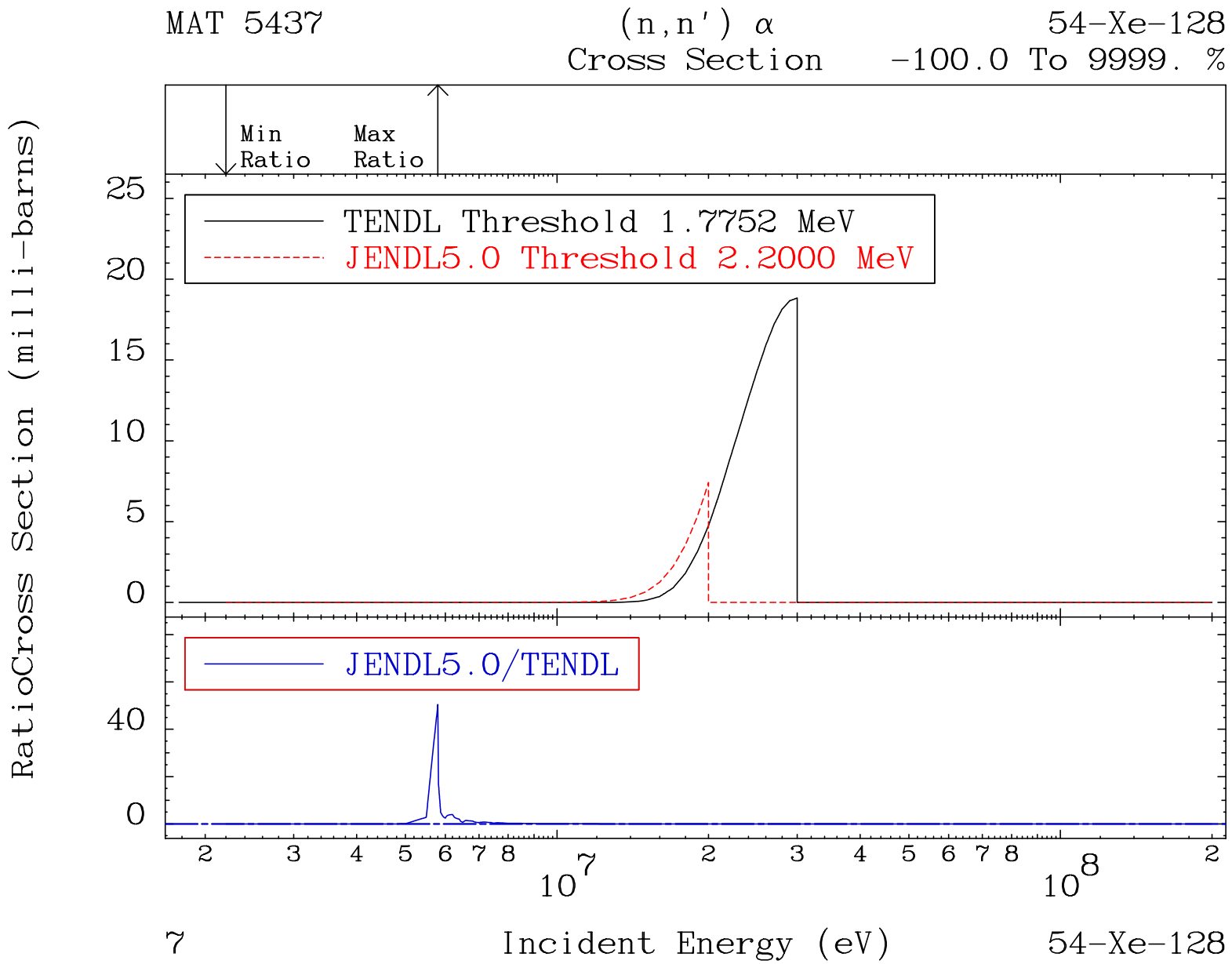

MAT 5437
Elastic
Cross Section
54-Xe-128
-97.81 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
54-Xe-128

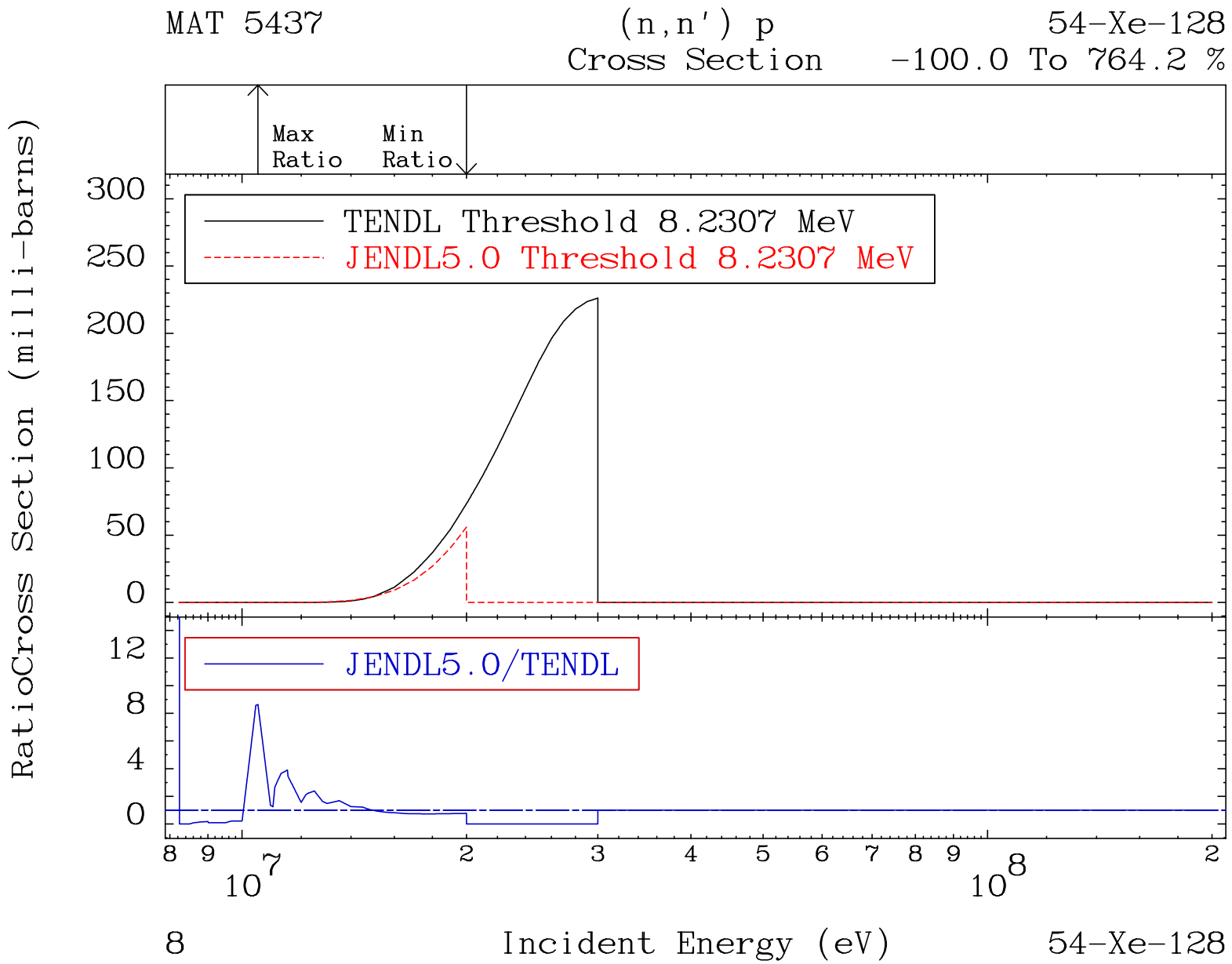

MAT 5437
Inelastic
Cross Section
54-Xe-128
-100.0 To 609.2 %
Max
Ratio
Min
Ratio
TENDL Threshold 446.40 keV
JENDL5.0 Threshold 446.40 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
8
4
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
54-Xe-128

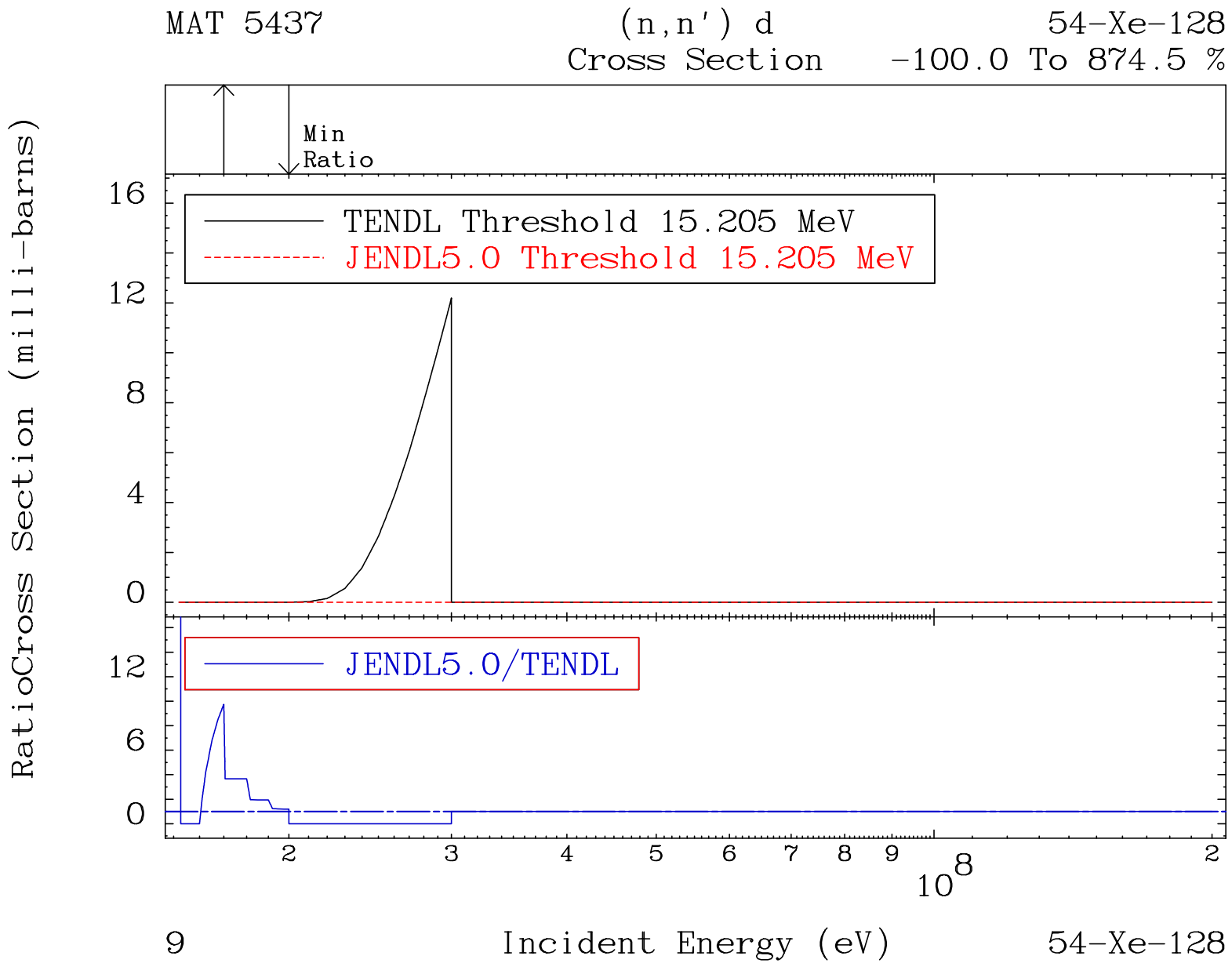

MAT 5437
(n,remainder)
Cross Section
54-Xe-128
-0.607 To 1.127 %
Max Ratio
Min Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
54-Xe-128

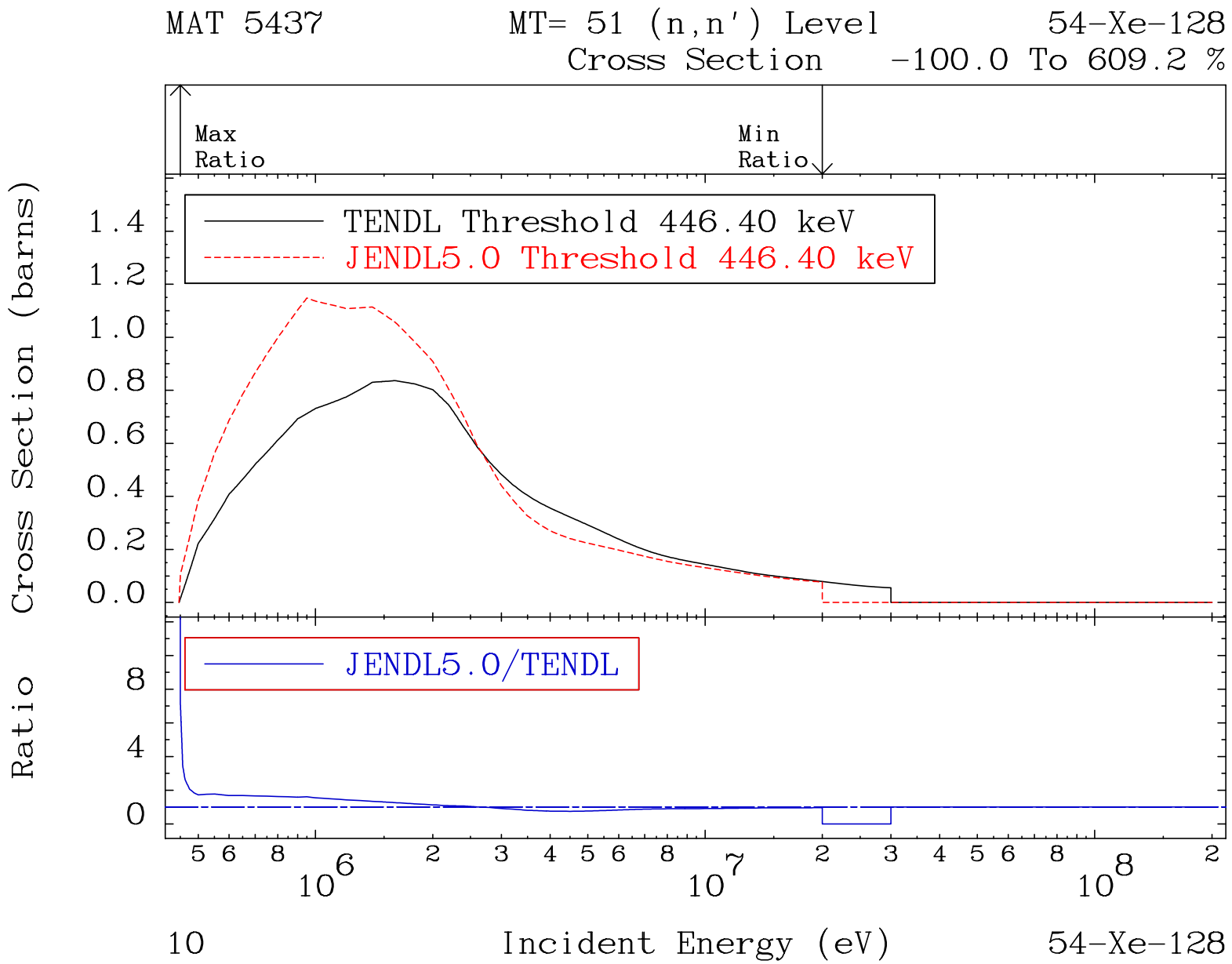

MAT 5437
(n,2n)
Cross Section
54-Xe-128
-100.0 To 67.64 %
Max Ratio
Min Ratio
TENDL Threshold 9.6868 MeV
JENDL5.0 Threshold 9.6868 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
54-Xe-128

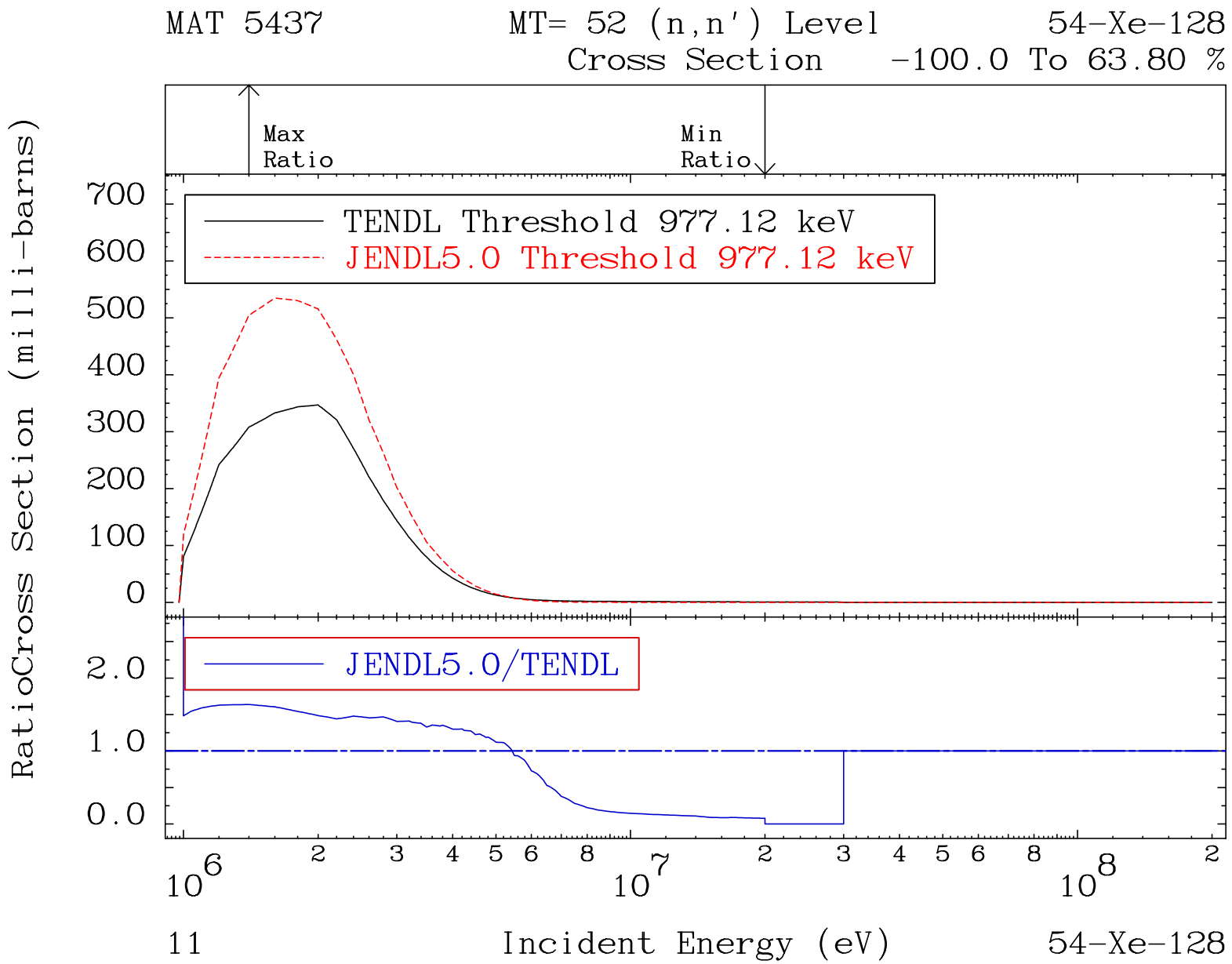

MAT 5437
(n,3n)
Cross Section
54-Xe-128
-100.0 To 248.2 %
Max
Ratio
TENDL Threshold 16.990 MeV
JENDL5.0 Threshold 17.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
54-Xe-128

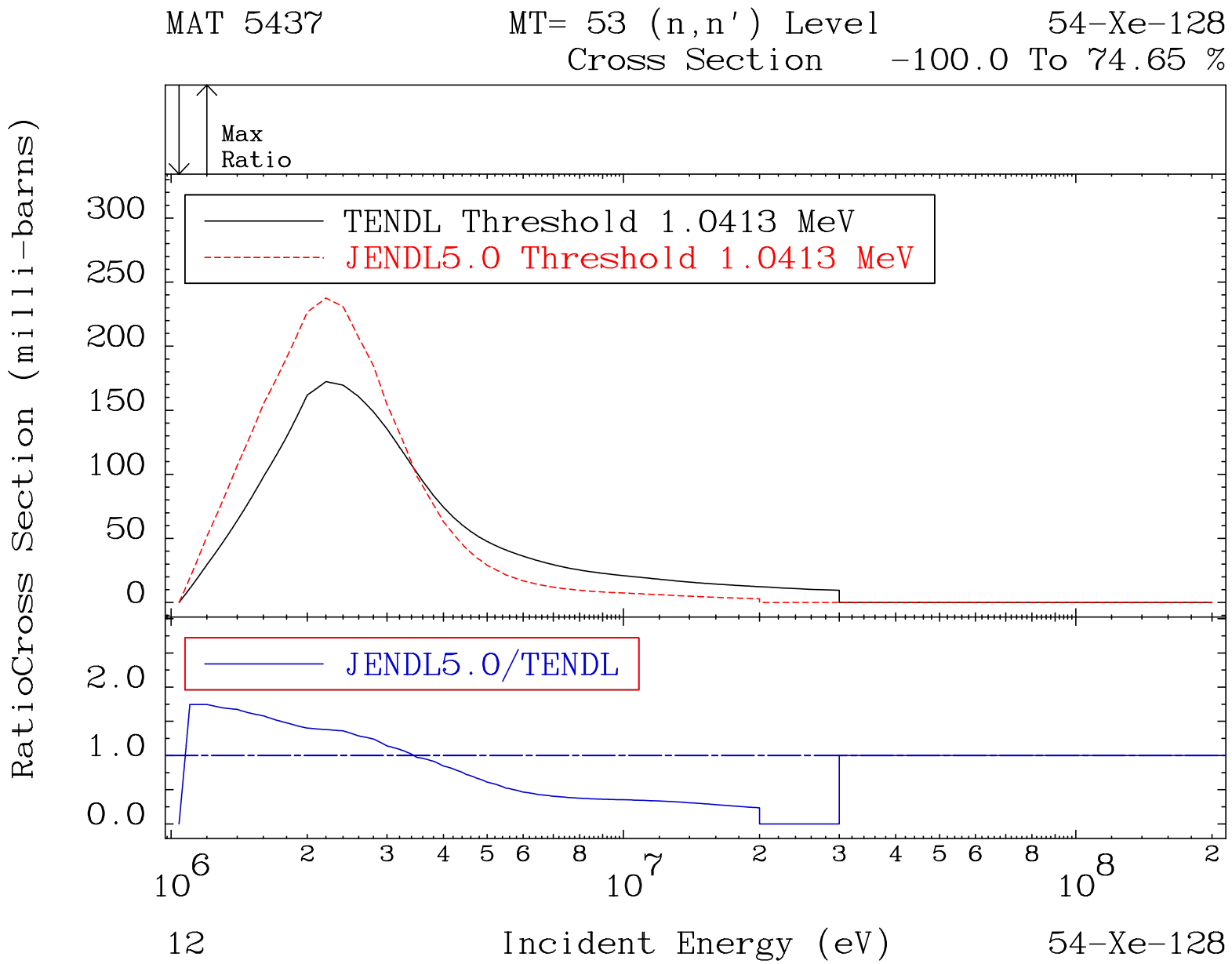

MAT 5437
(n,n') α
54-Xe-128
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7752 MeV
JENDL5.0 Threshold 2.2000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
40
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
54-Xe-128

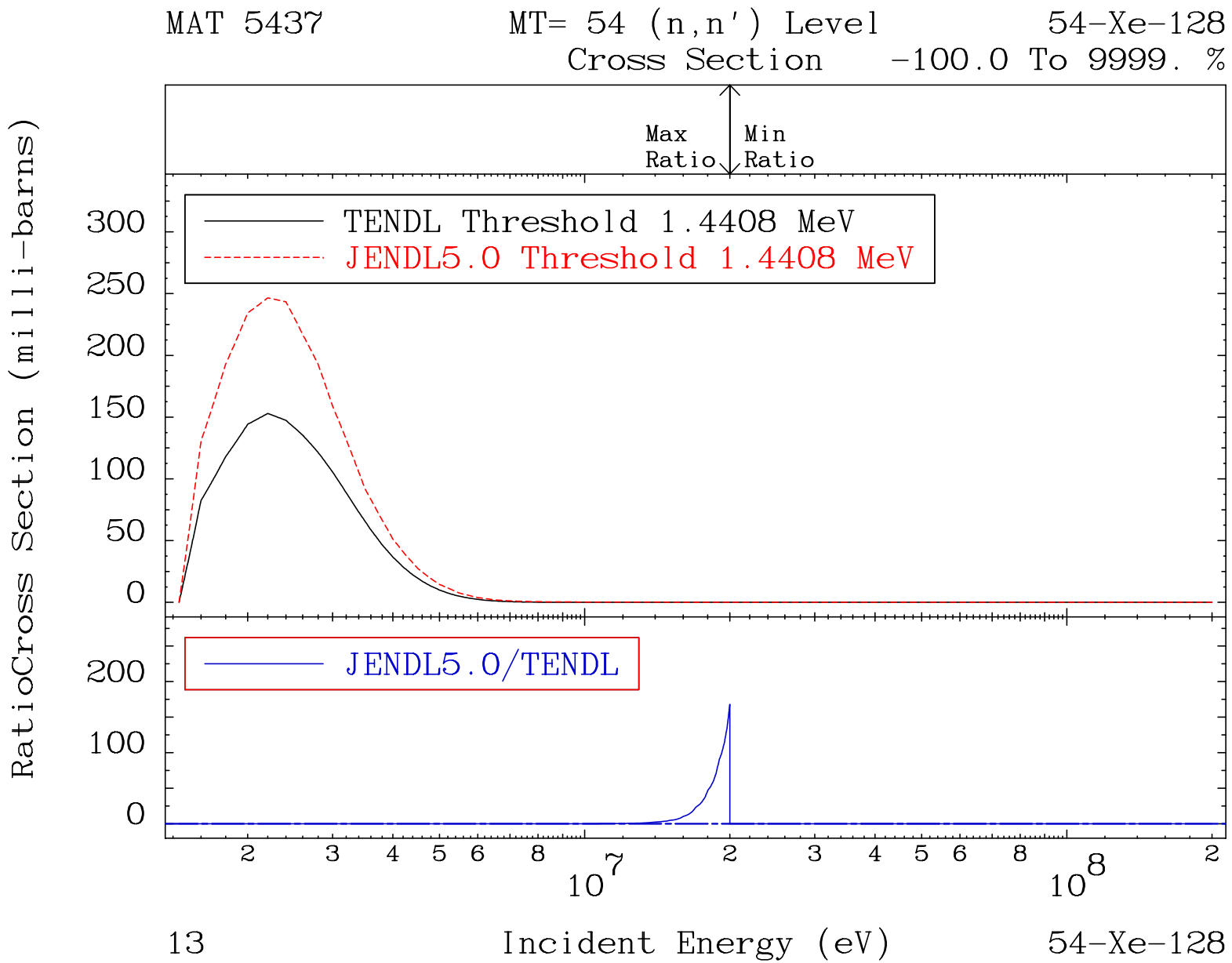

MAT 5437
(n,n') p
Cross Section
54-Xe-128
-100.0 To 764.2 %
Max Ratio
Min Ratio
TENDL Threshold 8.2307 MeV
JENDL5.0 Threshold 8.2307 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
12
8
4
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
54-Xe-128

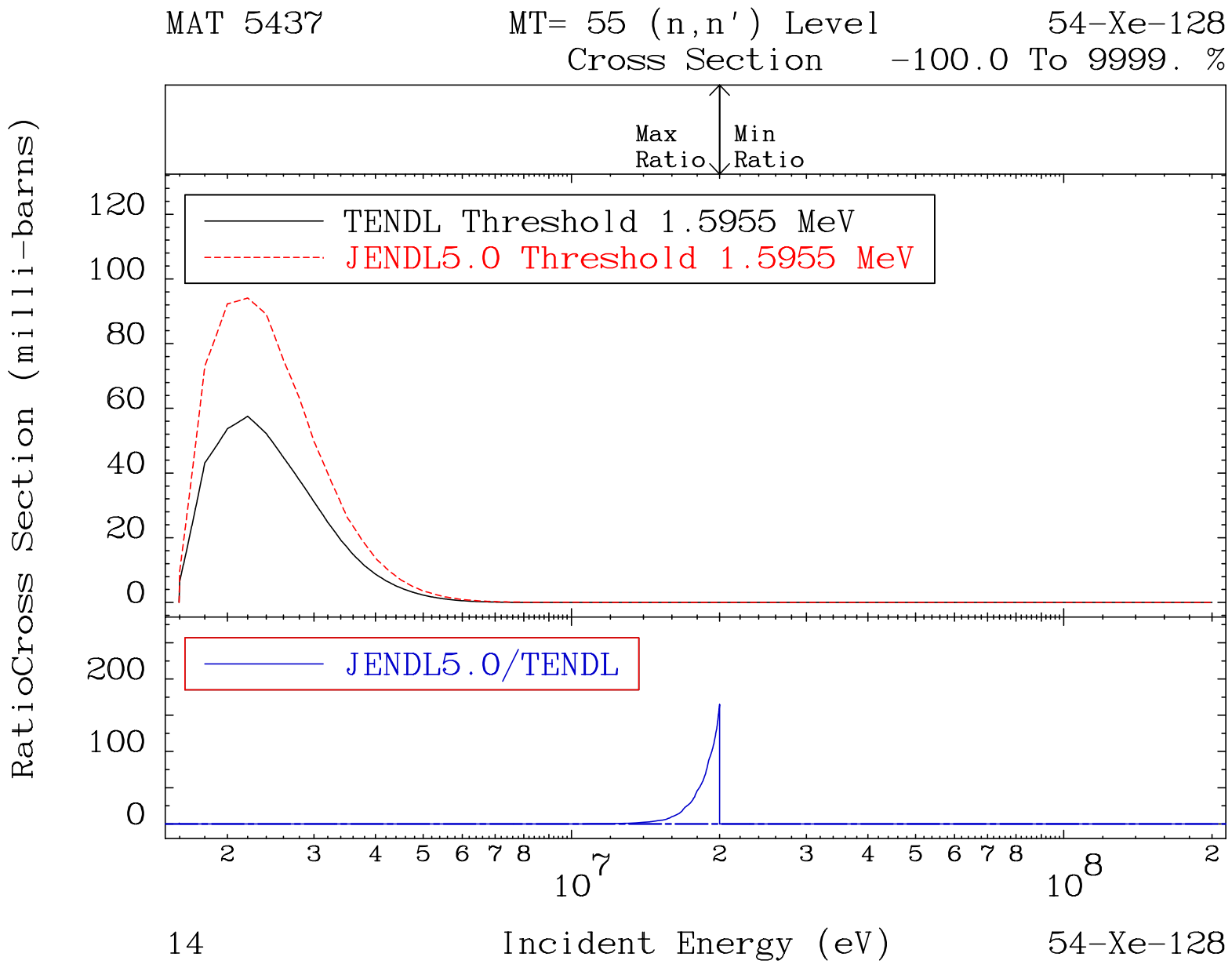

MAT 5437
(n,n') d
Cross Section
54-Xe-128
-100.0 To 874.5 %
Min
Ratio
TENDL Threshold 15.205 MeV
JENDL5.0 Threshold 15.205 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
12
6
0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
54-Xe-128

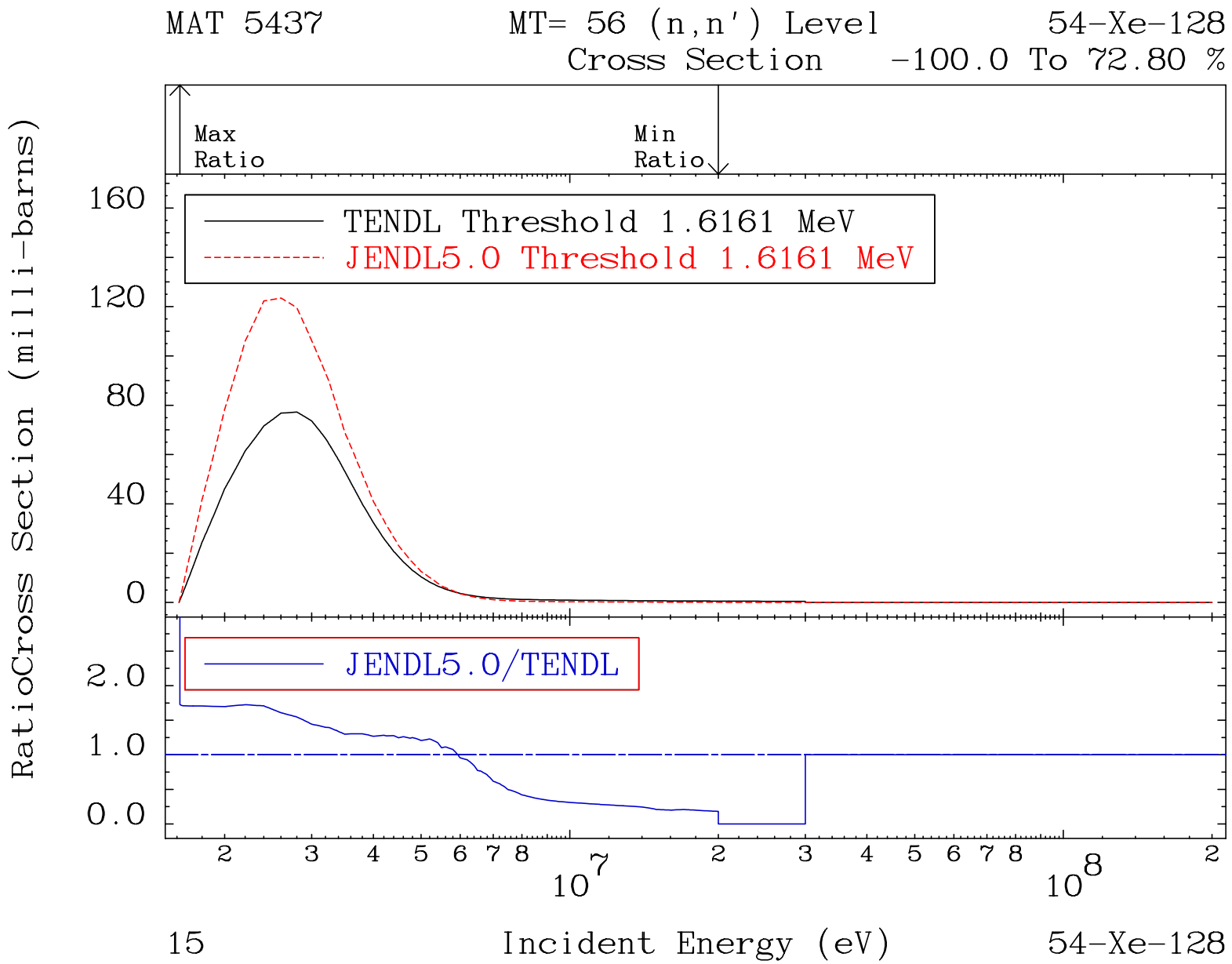

MAT 5437
MT= 51 (n,n') Level
54-Xe-128
Cross Section
-100.0 To 609.2 %
Max Ratio
Min Ratio
TENDL Threshold 446.40 keV
JENDL5.0 Threshold 446.40 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
8
4
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
54-Xe-128

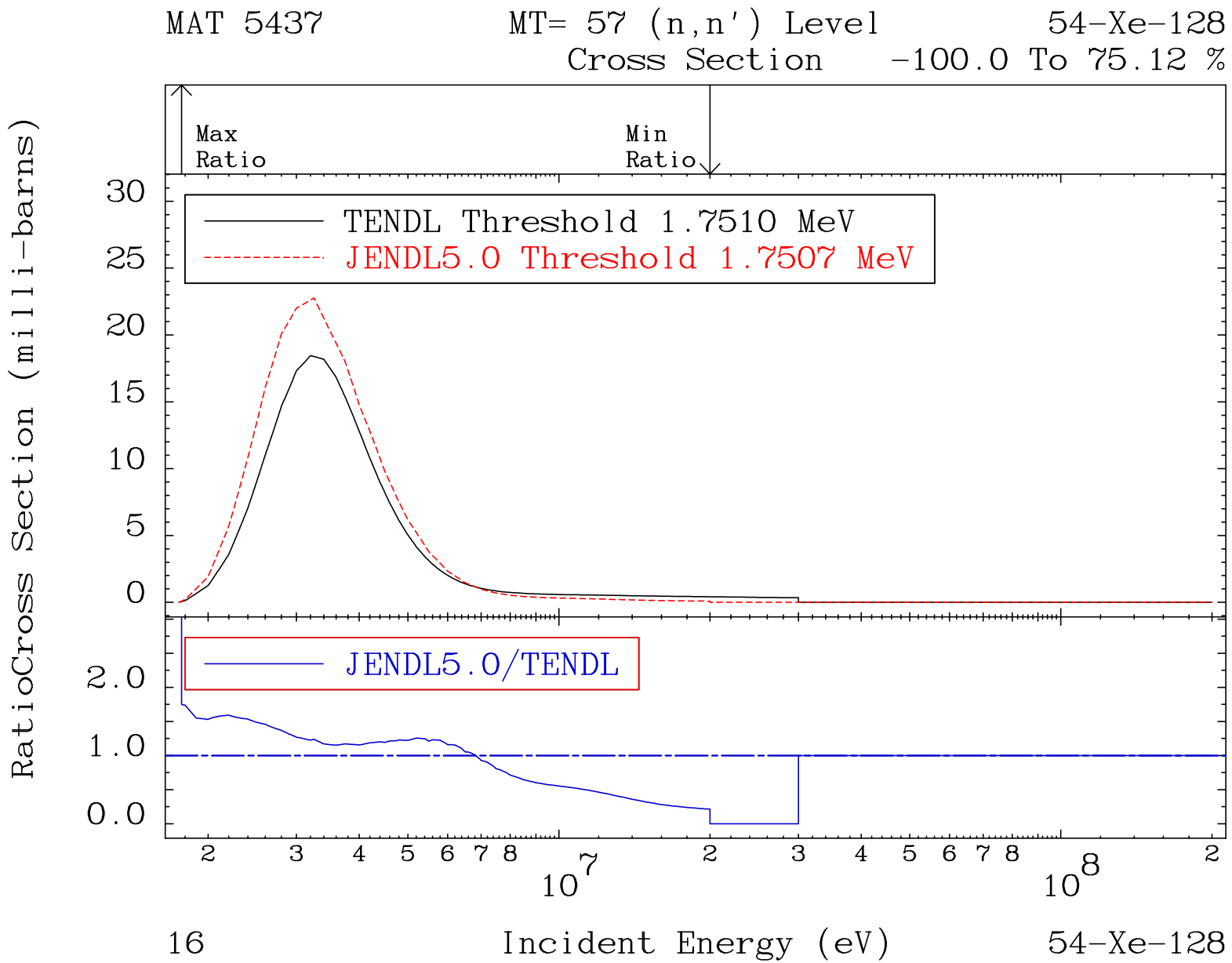

MAT 5437
MT= 52 (n,n') Level
54-Xe-128
Cross Section
-100.0 To 63.80 %
Max Ratio
Min Ratio
TENDL Threshold 977.12 keV
JENDL5.0 Threshold 977.12 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
2.0
1.0
0.0
10^6
10^7
10^8
Incident Energy (eV)
11
54-Xe-128

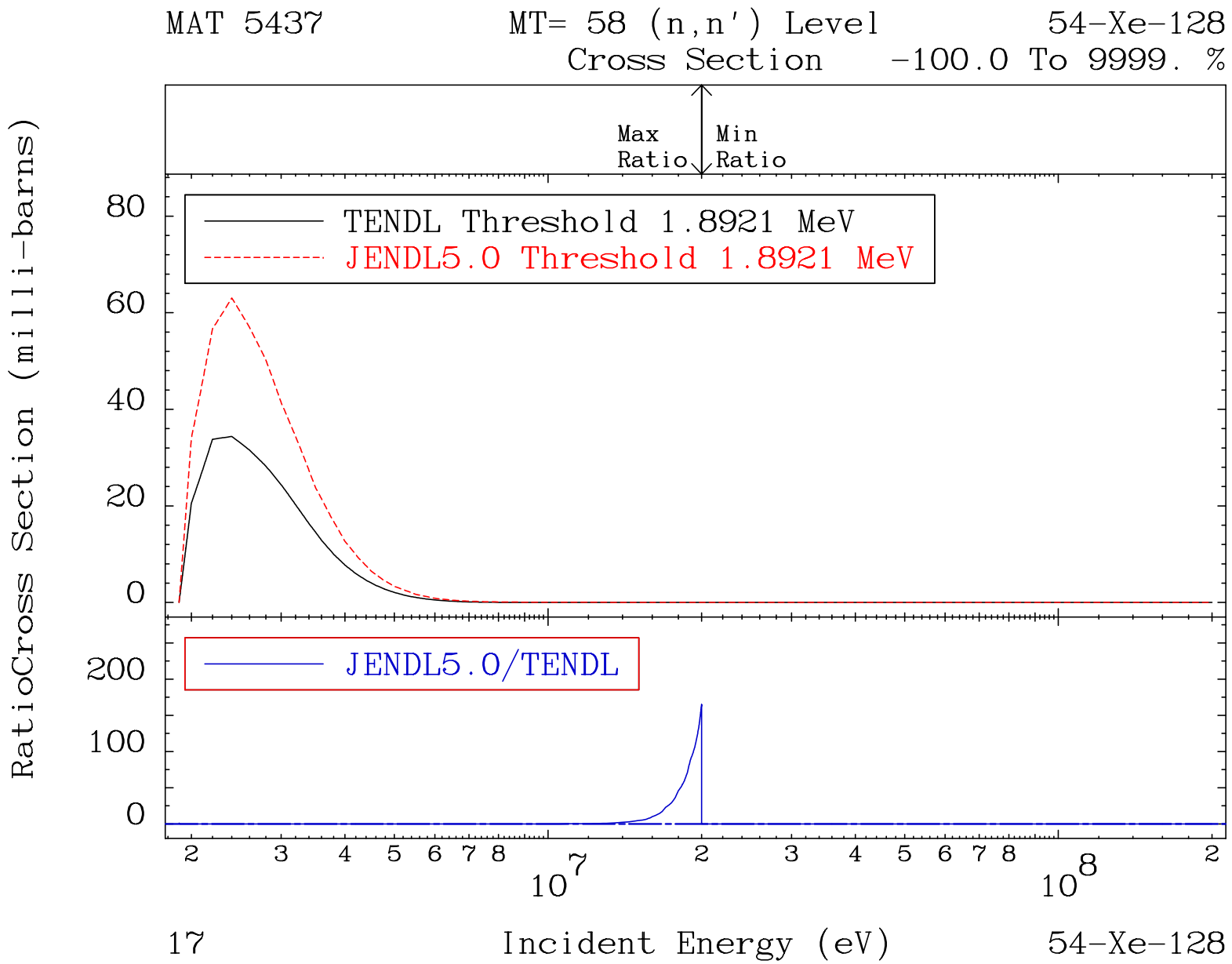

MAT 5437
MT= 53 (n,n') Level
54-Xe-128
Cross Section
-100.0 To 74.65 %
Max
Ratio
TENDL Threshold 1.0413 MeV
JENDL5.0 Threshold 1.0413 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2.0
1.0
0.0
10^6
10^7
10^8
Incident Energy (eV)
12
54-Xe-128

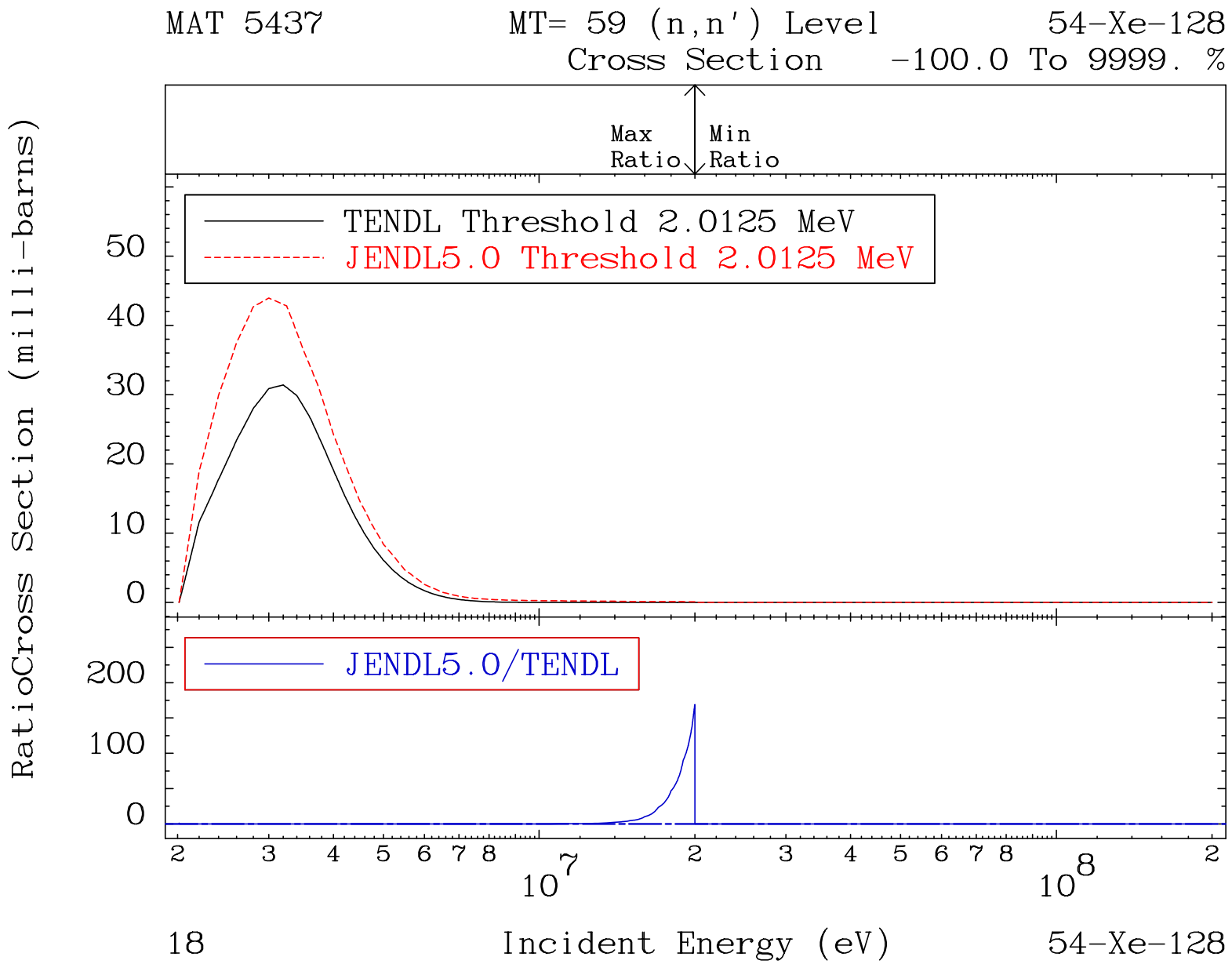

MAT 5437
MT= 54 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4408 MeV
JENDL5.0 Threshold 1.4408 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
200
100
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
54-Xe-128

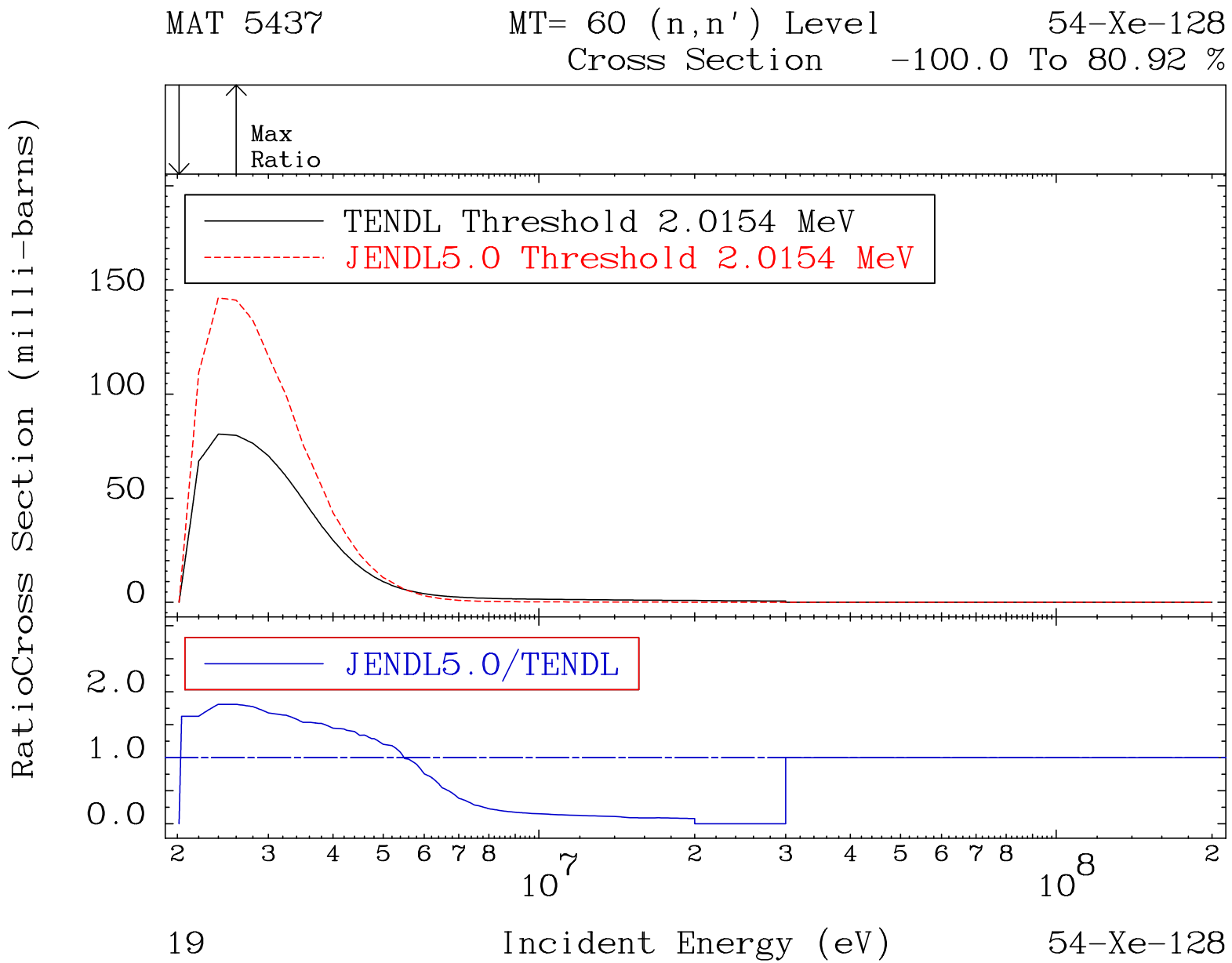

MAT 5437
MT= 55 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.5955 MeV
JENDL5.0 Threshold 1.5955 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
200
100
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
54-Xe-128

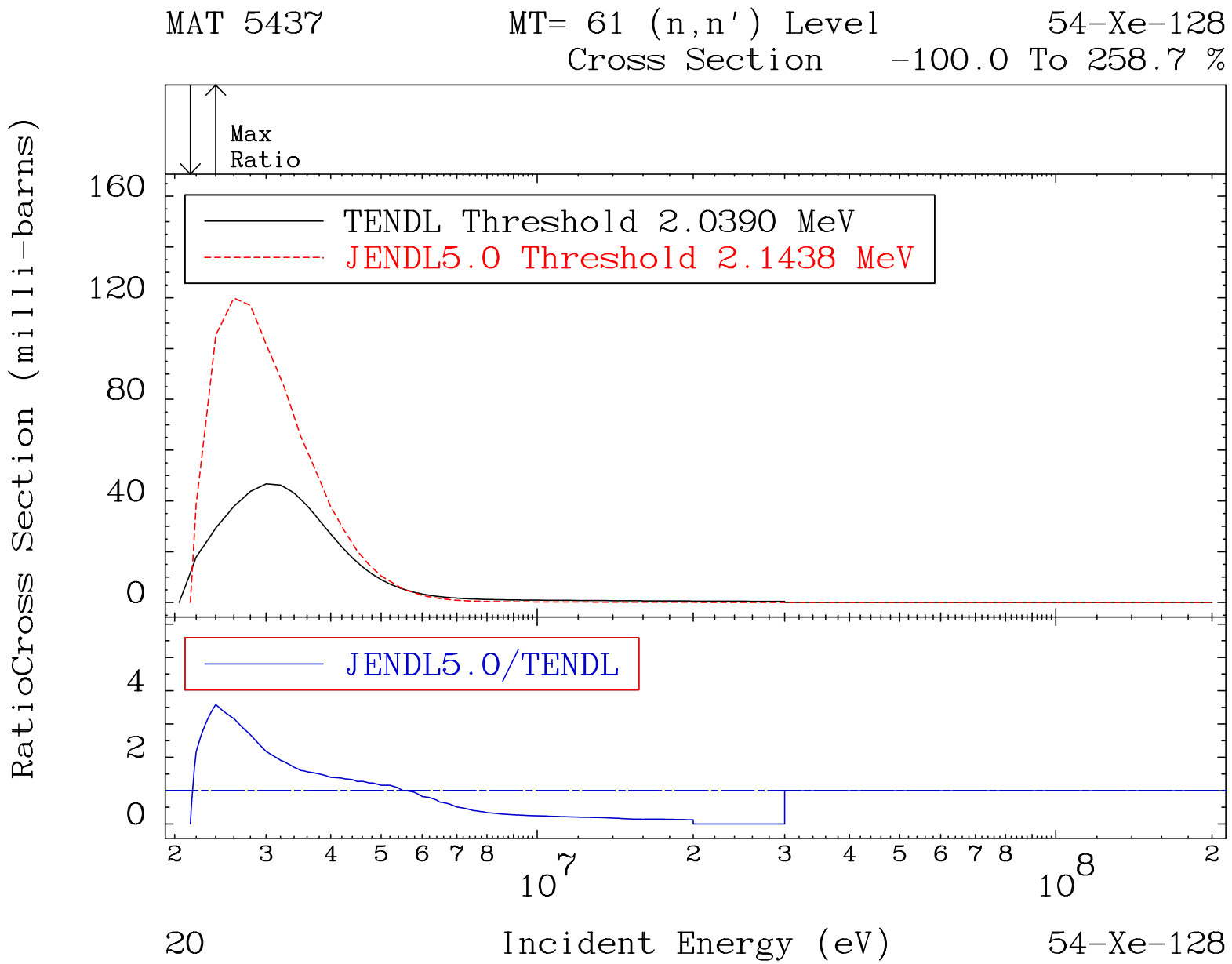

MAT 5437
MT= 56 (n,n') Level
54-Xe-128
Cross Section
-100.0 To 72.80 %
Max Ratio
Min Ratio
TENDL Threshold 1.6161 MeV
JENDL5.0 Threshold 1.6161 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
54-Xe-128

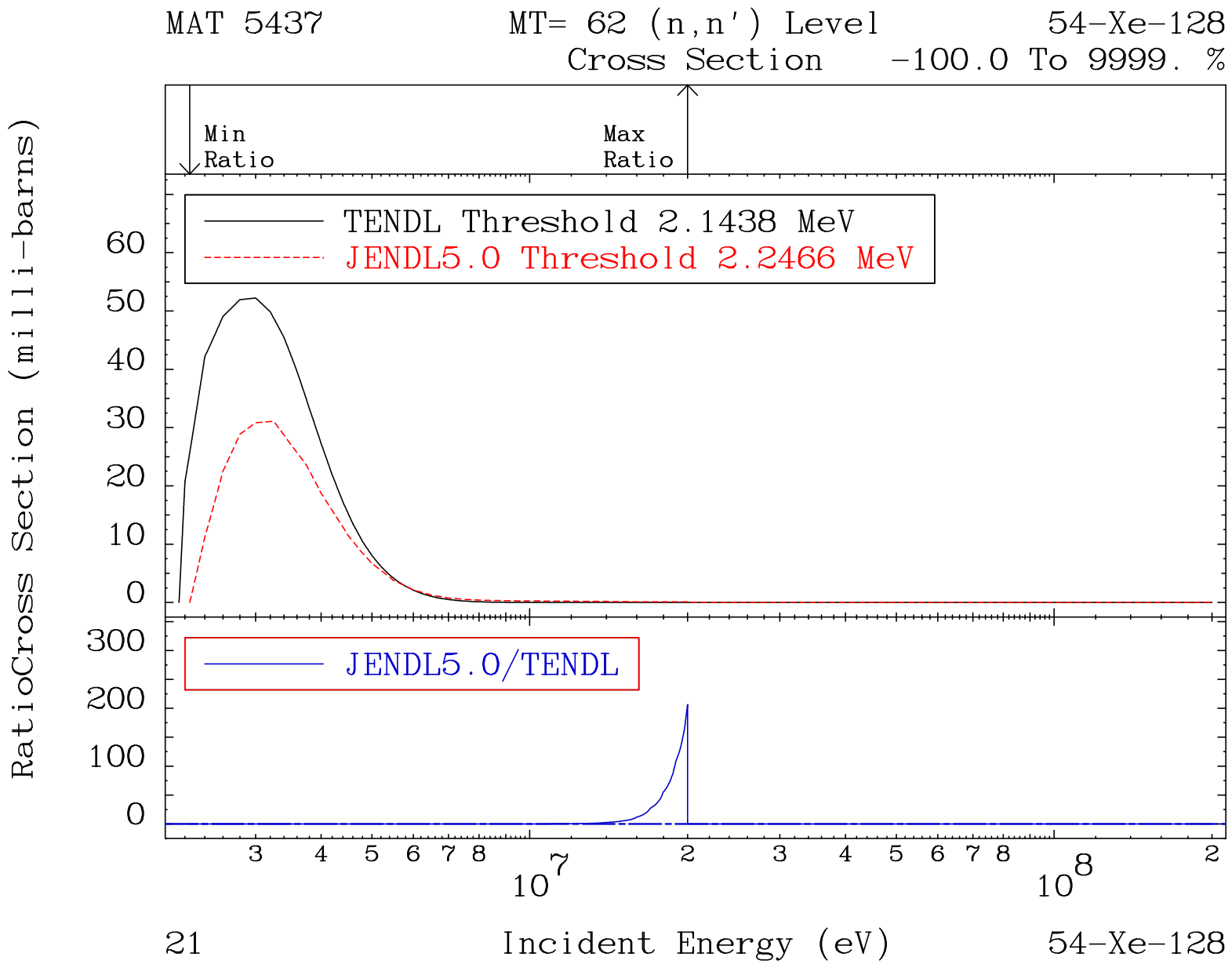

MAT 5437
MT= 57 (n,n') Level
54-Xe-128
Cross Section
-100.0 To 75.12 %
Max Ratio
Min Ratio
TENDL Threshold 1.7510 MeV
JENDL5.0 Threshold 1.7507 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
54-Xe-128

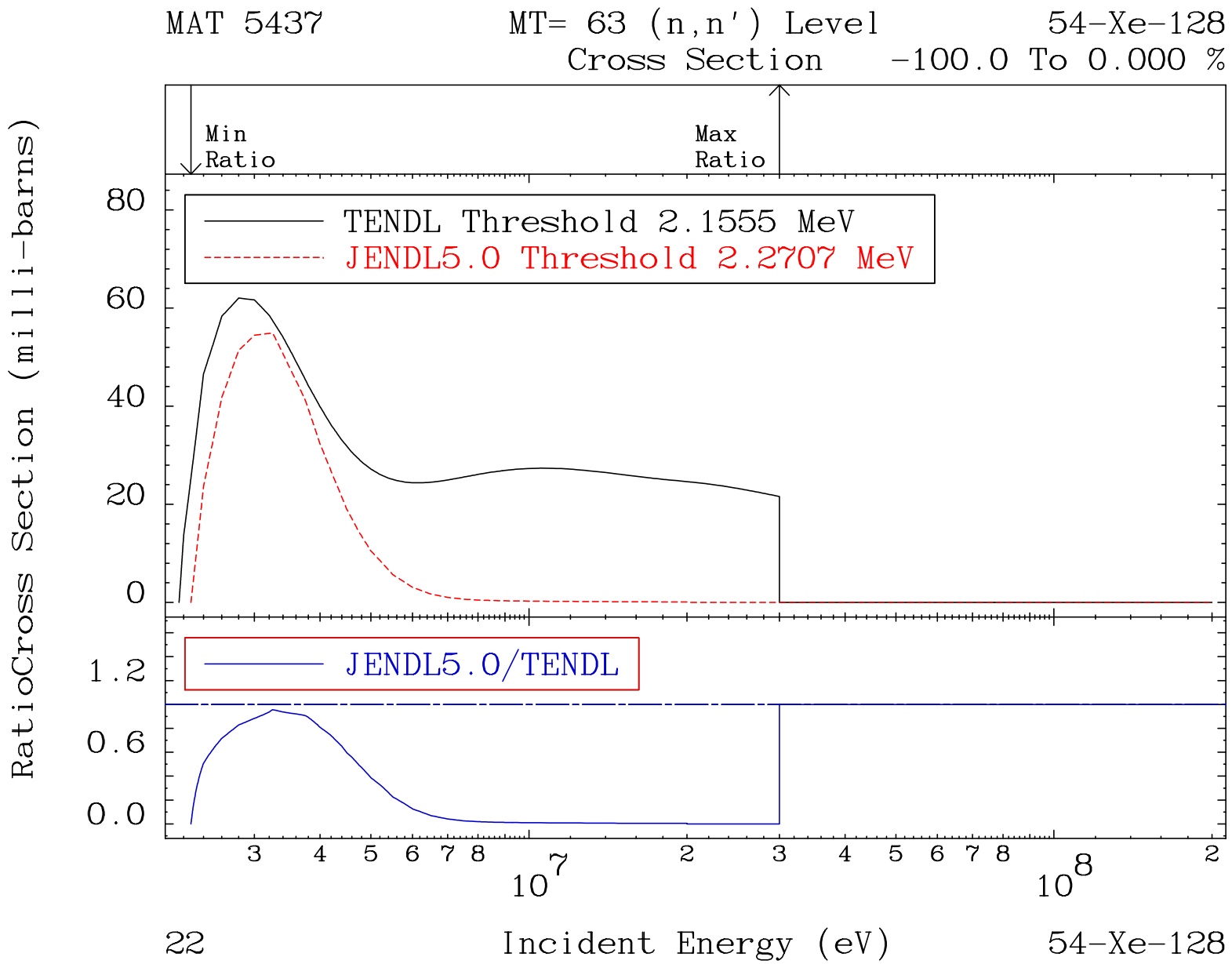

MAT 5437
MT= 58 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.8921 MeV
JENDL5.0 Threshold 1.8921 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
200
100
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
54-Xe-128

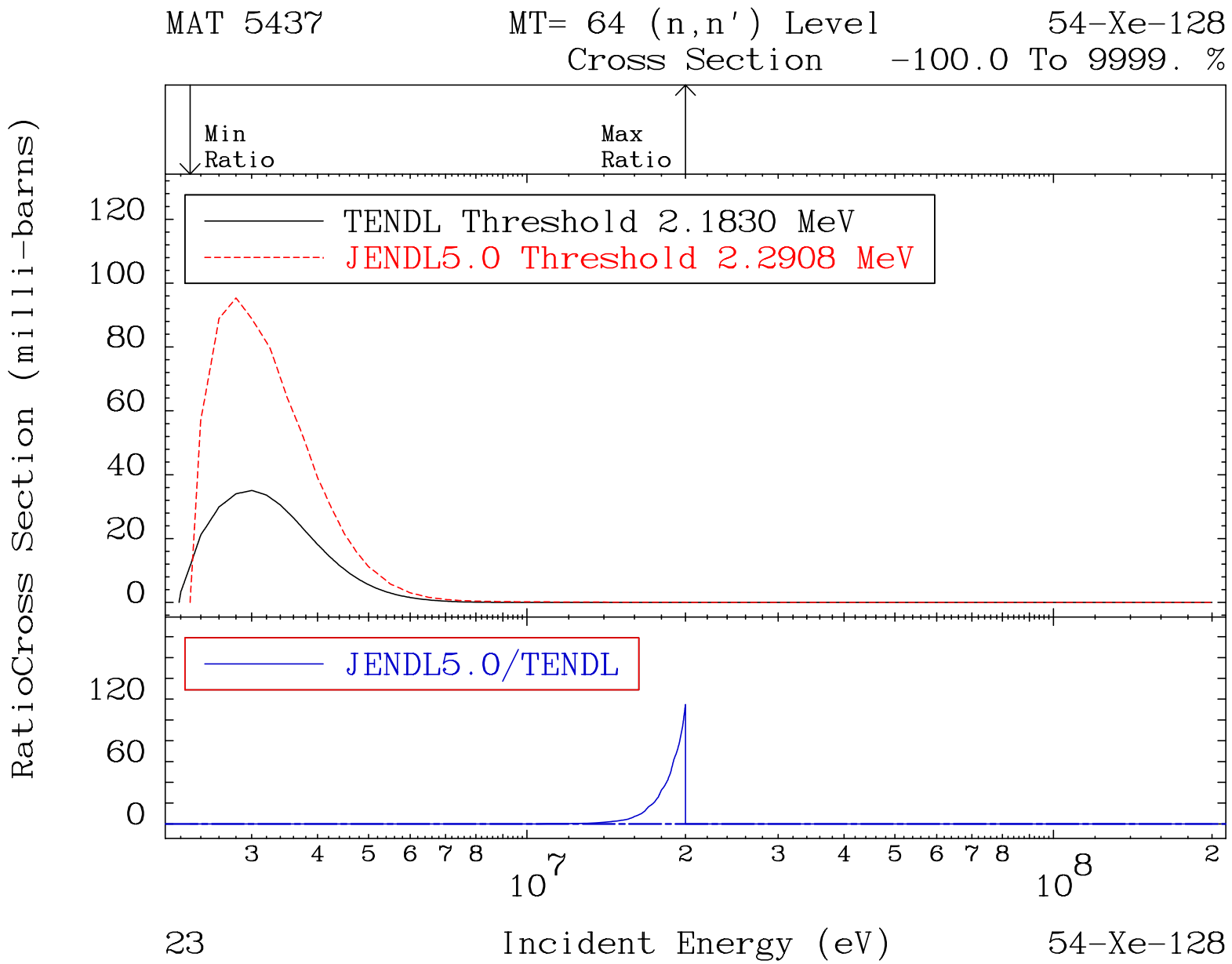

MAT 5437
MT= 59 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.0125 MeV
JENDL5.0 Threshold 2.0125 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
200
100
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
54-Xe-128

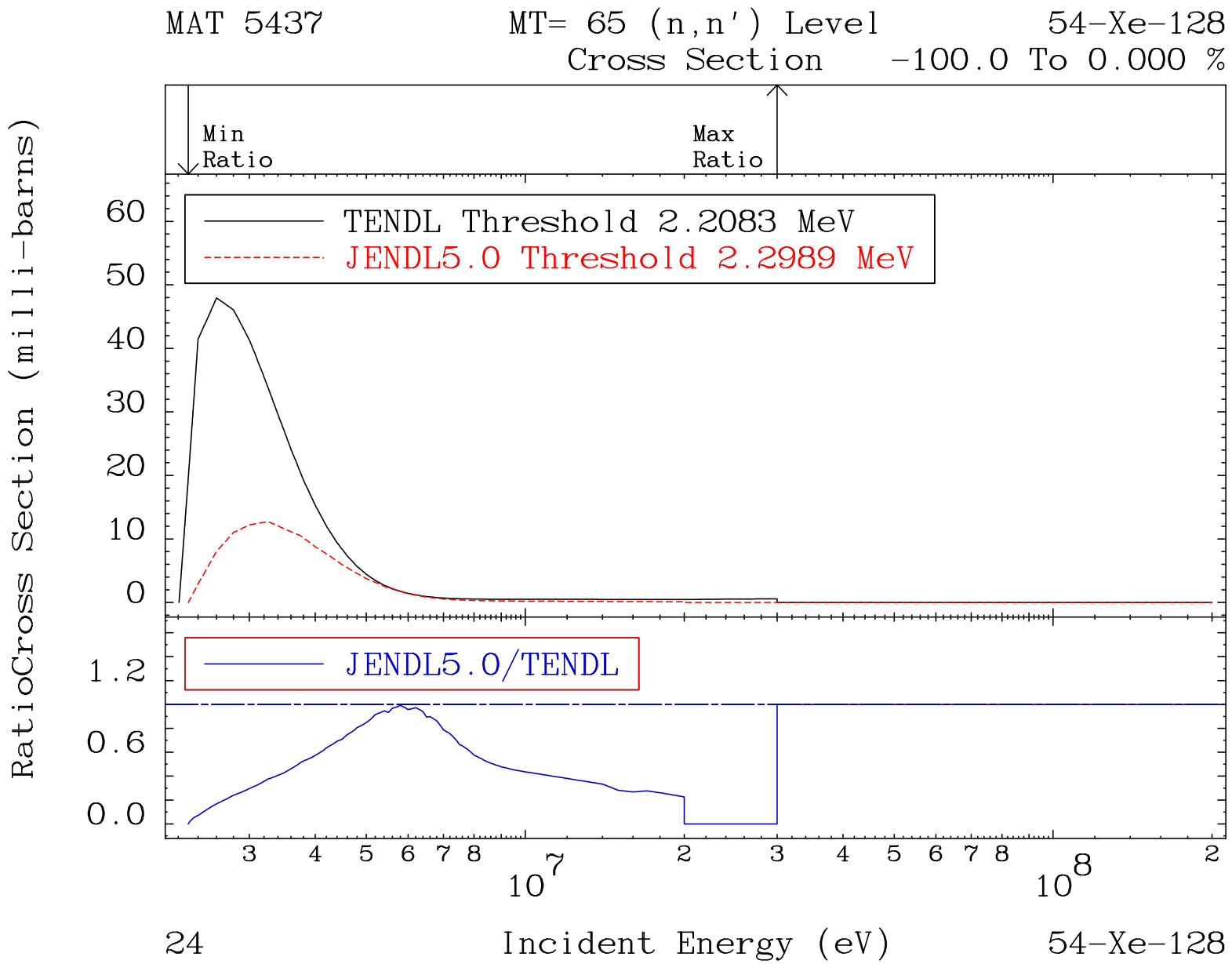

MAT 5437
MT= 60 (n,n') Level
54-Xe-128
Cross Section
-100.0 To 80.92 %
Max
Ratio
TENDL Threshold 2.0154 MeV
JENDL5.0 Threshold 2.0154 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
54-Xe-128

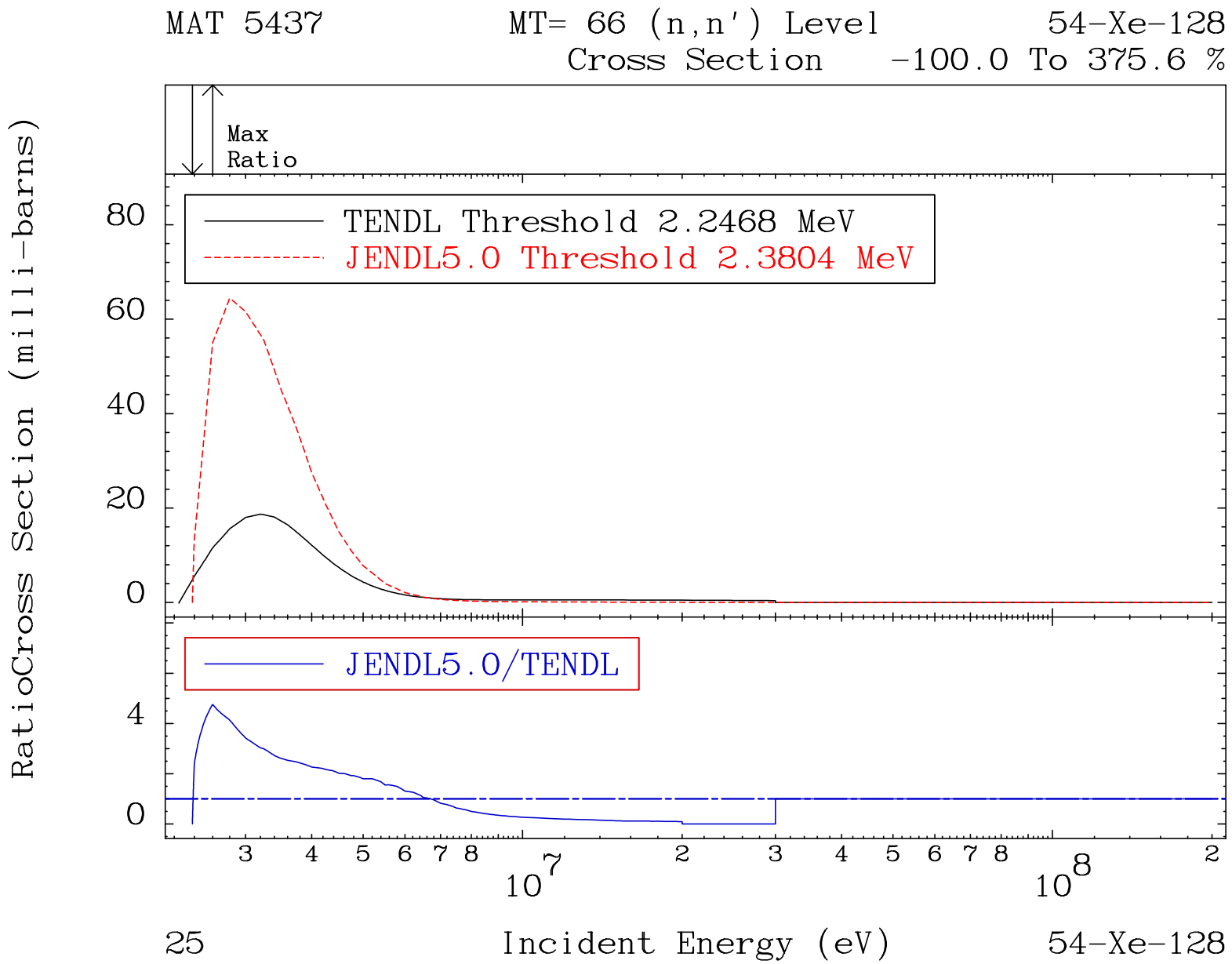

MAT 5437
MT= 61 (n,n') Level
54-Xe-128
Cross Section -100.0 To 258.7 %
Max
Ratio
160
120
80
40
0
TENDL Threshold 2.0390 MeV
JENDL5.0 Threshold 2.1438 MeV
4
2
0
JENDL5.0/TENDL
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
RatioCross Section (milli-barns)
20
Incident Energy (eV)
54-Xe-128

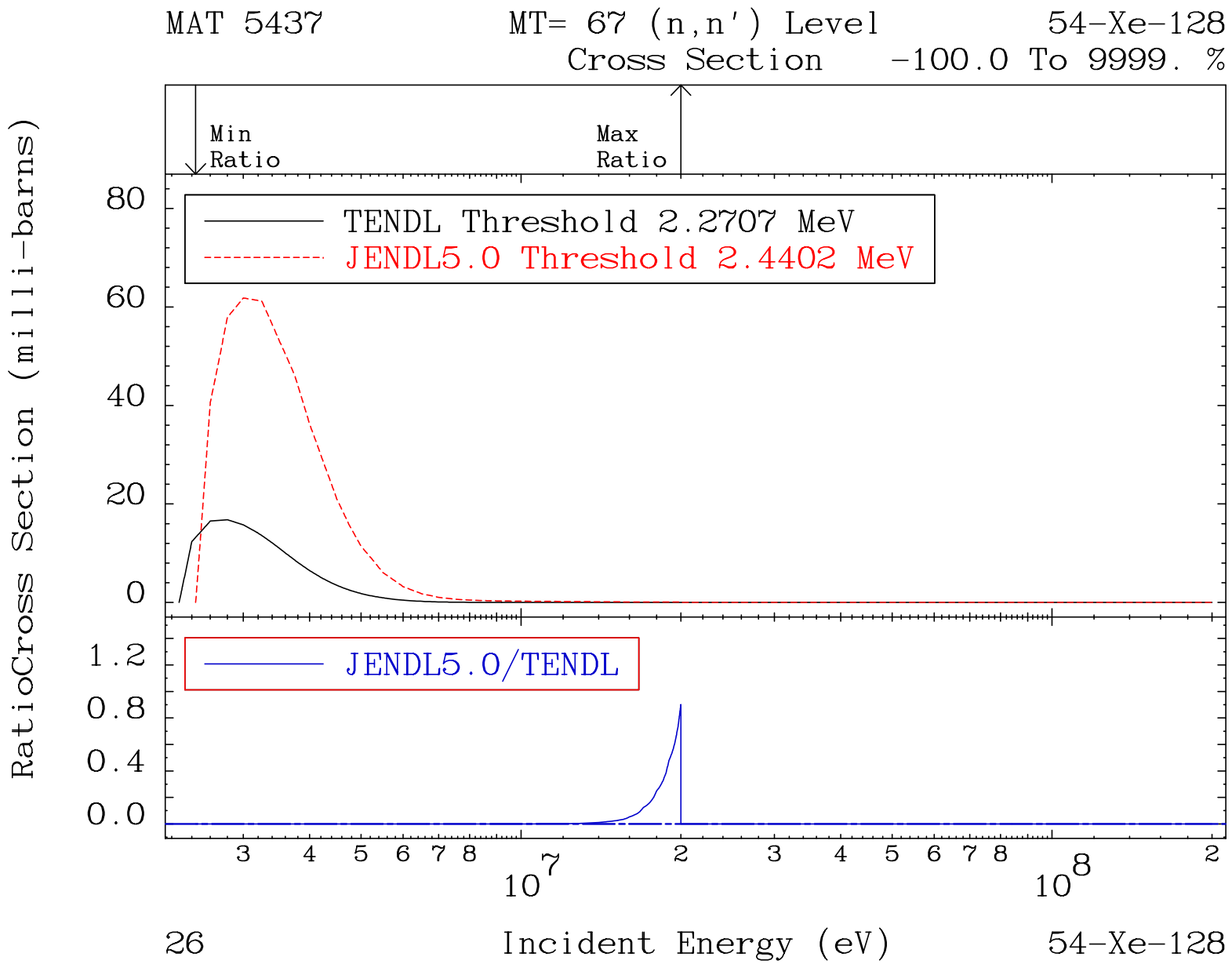

MAT 5437
MT= 62 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.1438 MeV
JENDL5.0 Threshold 2.2466 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
300
200
100
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
54-Xe-128

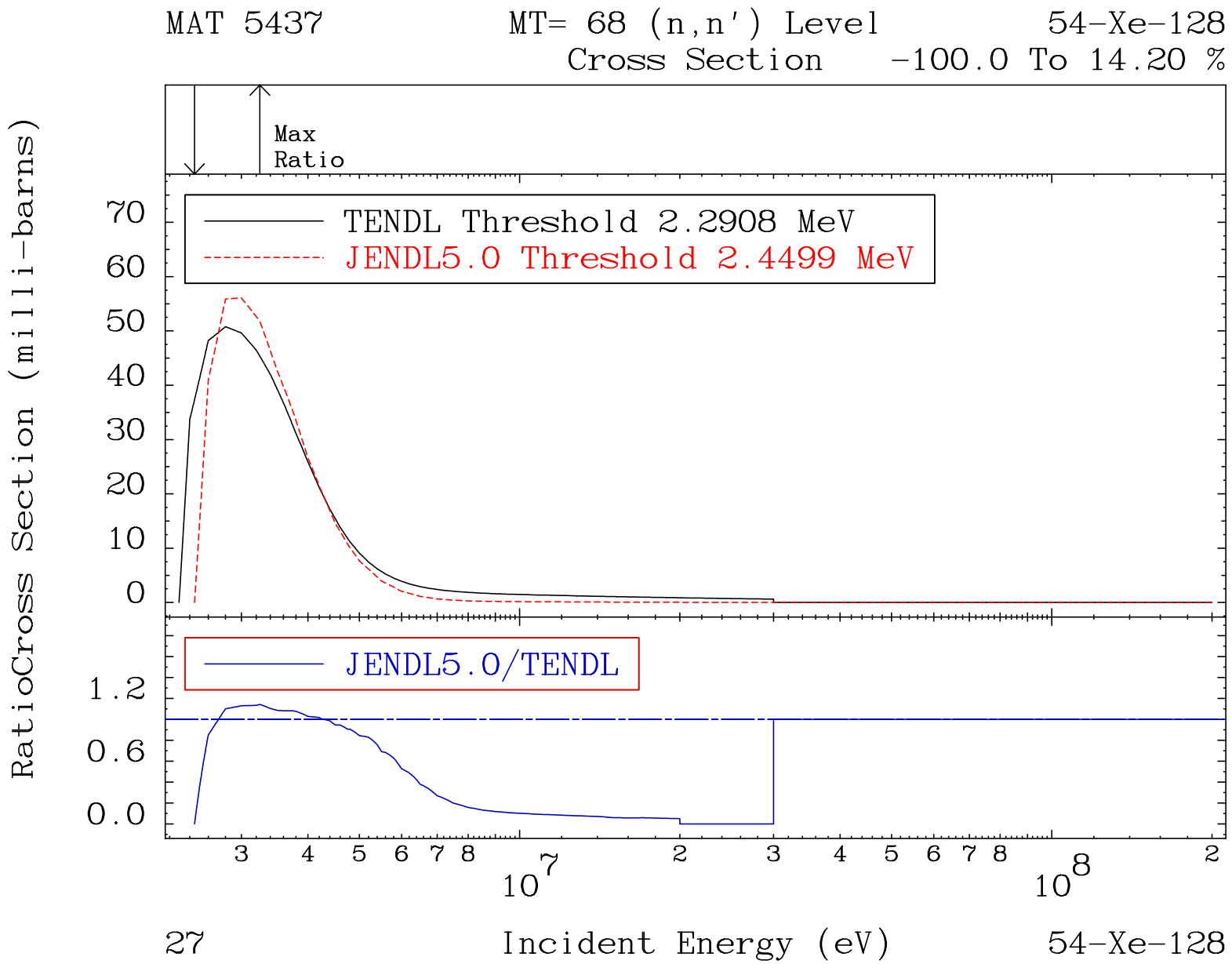

MAT 5437
MT= 63 (n,n') Level
54-Xe-128
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.1555 MeV
JENDL5.0 Threshold 2.2707 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
54-Xe-128

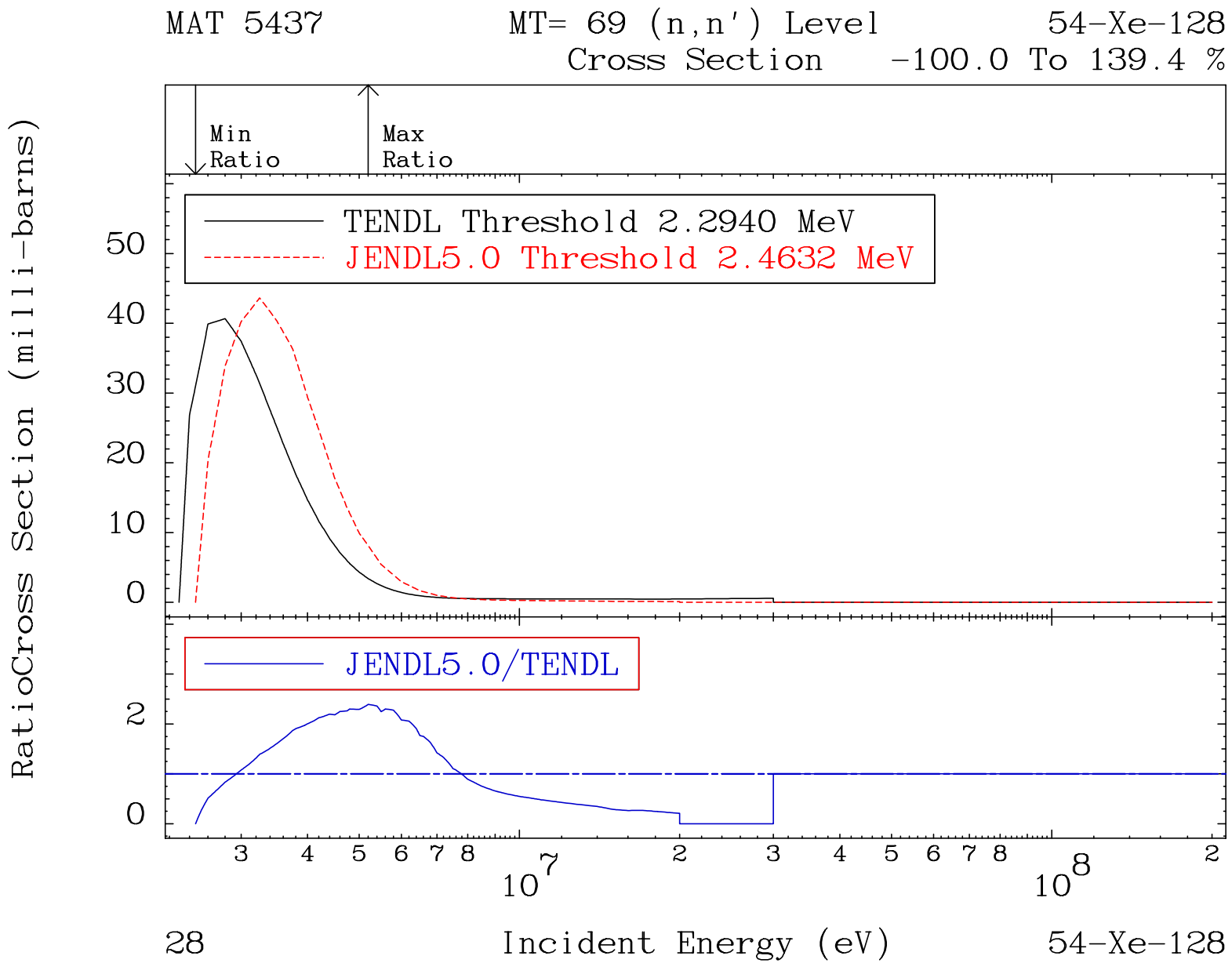

MAT 5437
MT= 64 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.1830 MeV
JENDL5.0 Threshold 2.2908 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
120
60
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
54-Xe-128

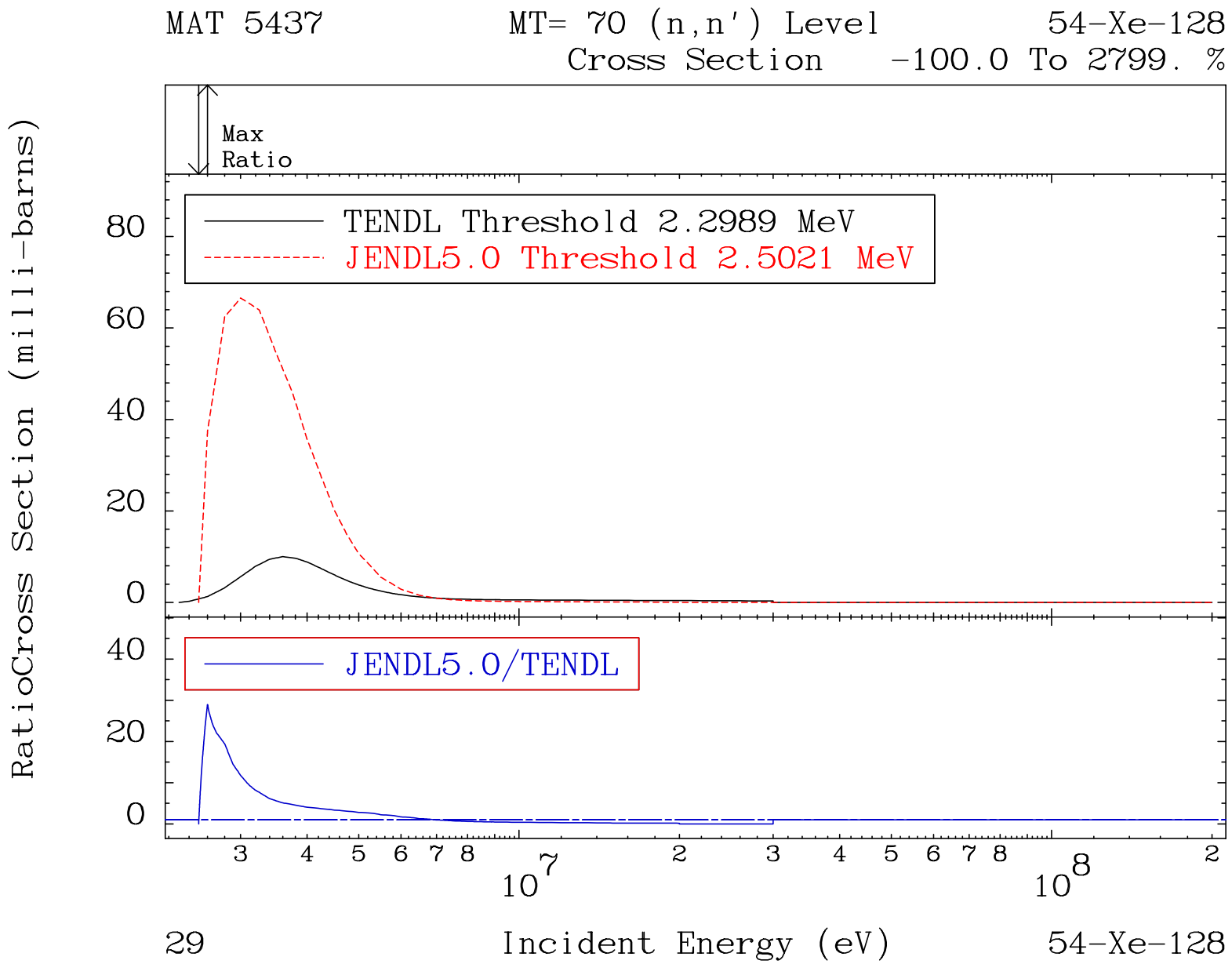

MAT 5437
MT= 65 (n,n') Level
54-Xe-128
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.2083 MeV
JENDL5.0 Threshold 2.2989 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
54-Xe-128

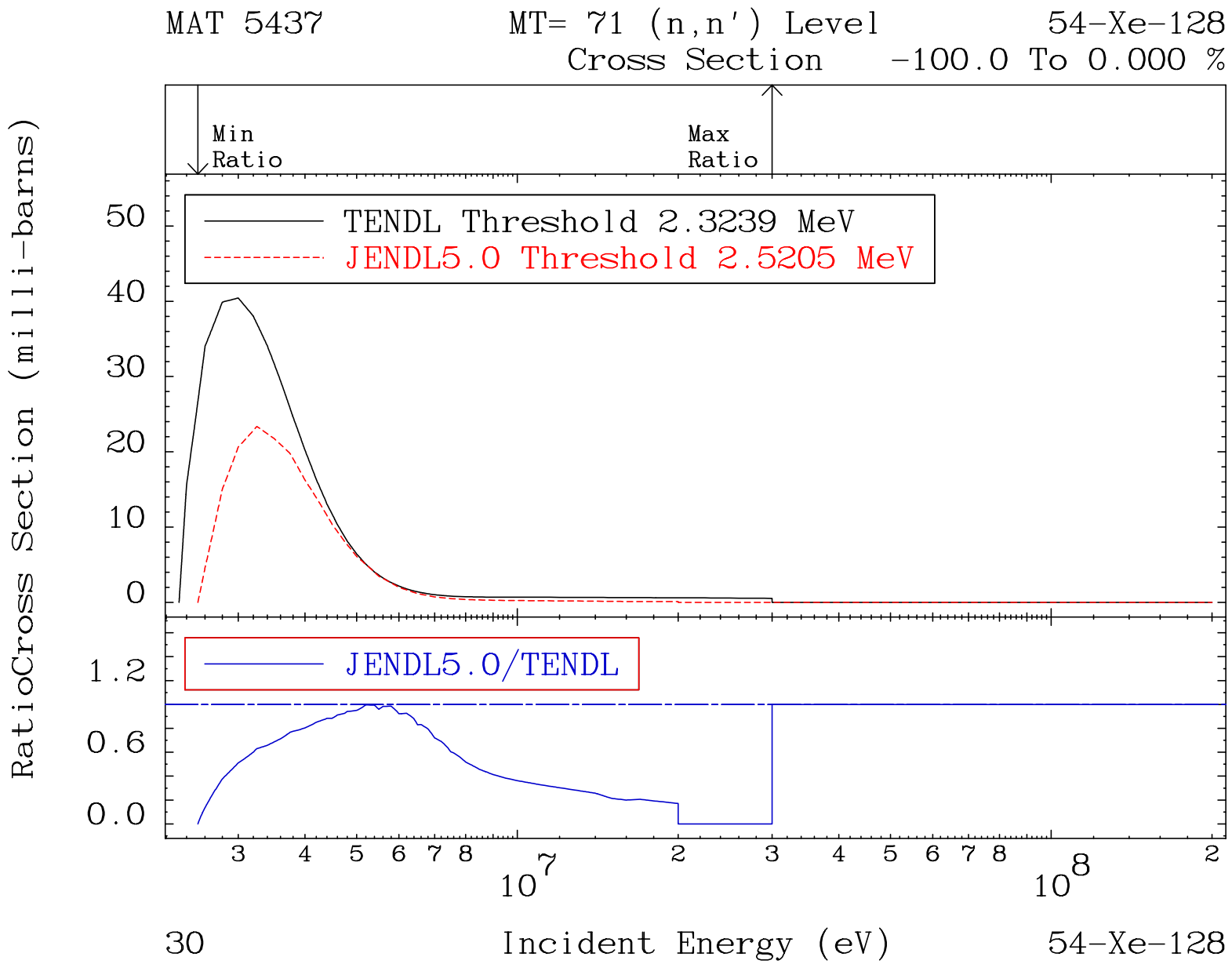

MAT 5437
MT= 66 (n,n') Level
54-Xe-128
Cross Section
-100.0 To 375.6 %
Max
Ratio
TENDL Threshold 2.2468 MeV
JENDL5.0 Threshold 2.3804 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
54-Xe-128

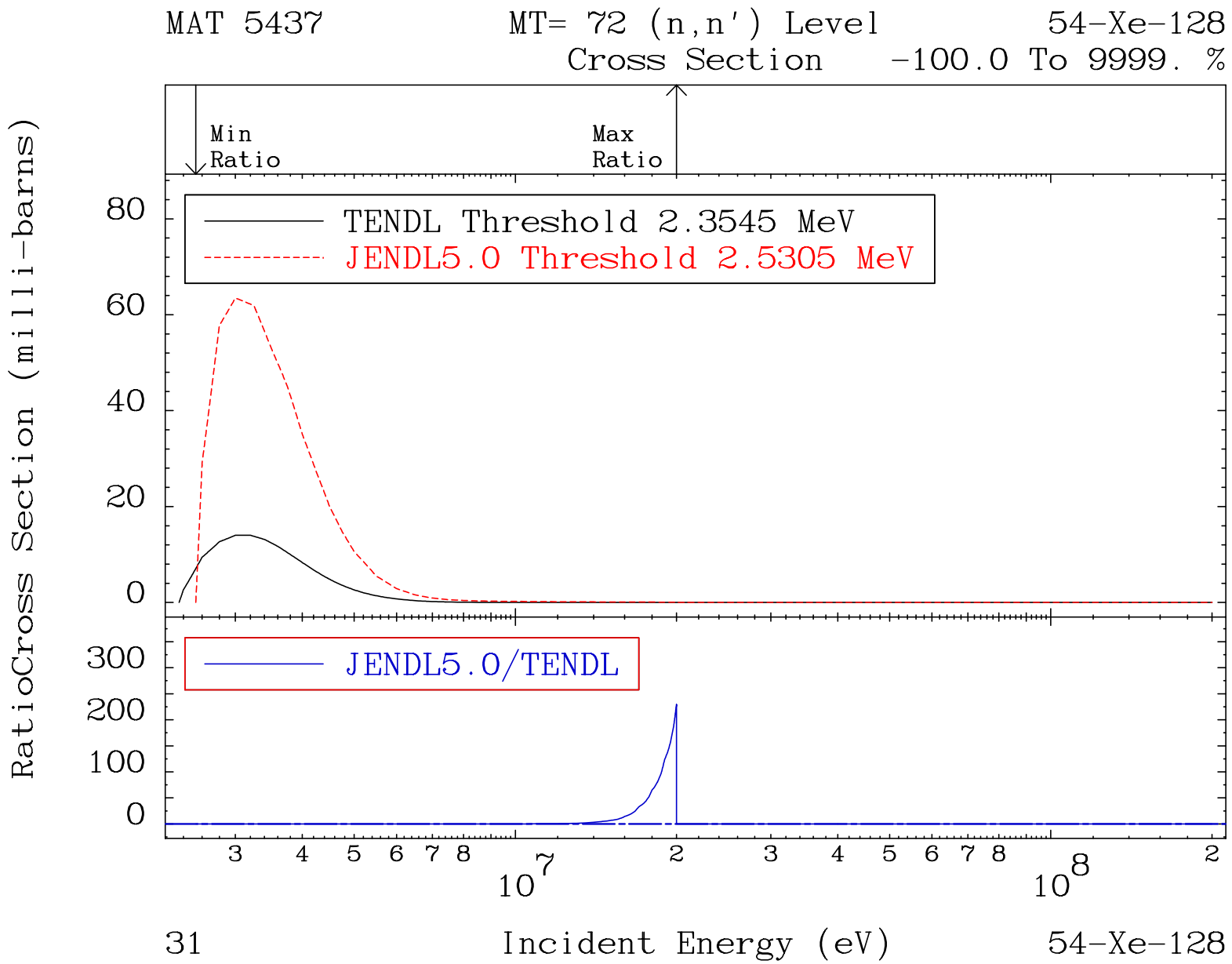

MAT 5437
MT= 67 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.2707 MeV
JENDL5.0 Threshold 2.4402 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.8
0.4
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
54-Xe-128

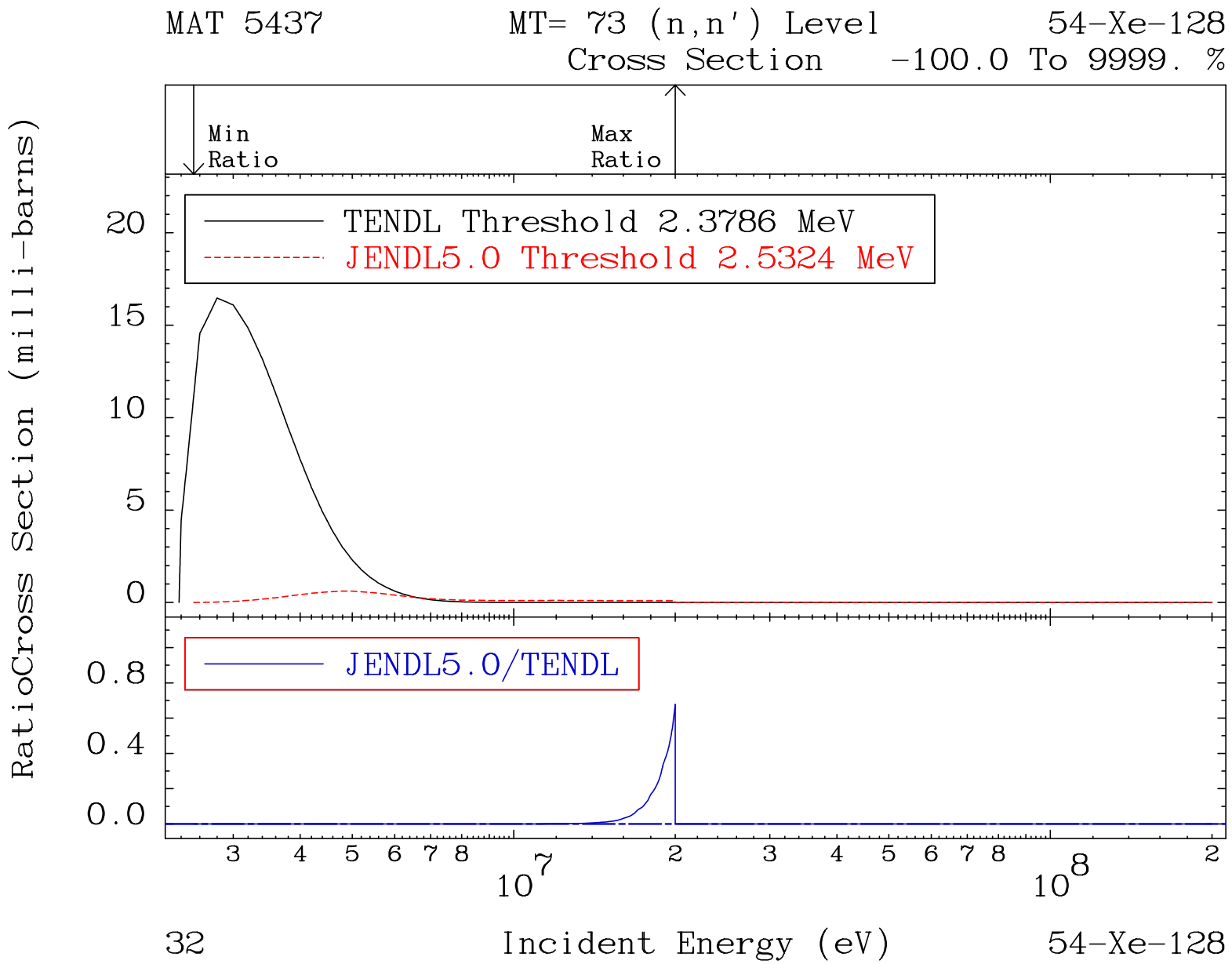

MAT 5437
MT= 68 (n,n') Level
54-Xe-128
Cross Section -100.0 To 14.20 %
Max
Ratio
TENDL Threshold 2.2908 MeV
JENDL5.0 Threshold 2.4499 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
54-Xe-128

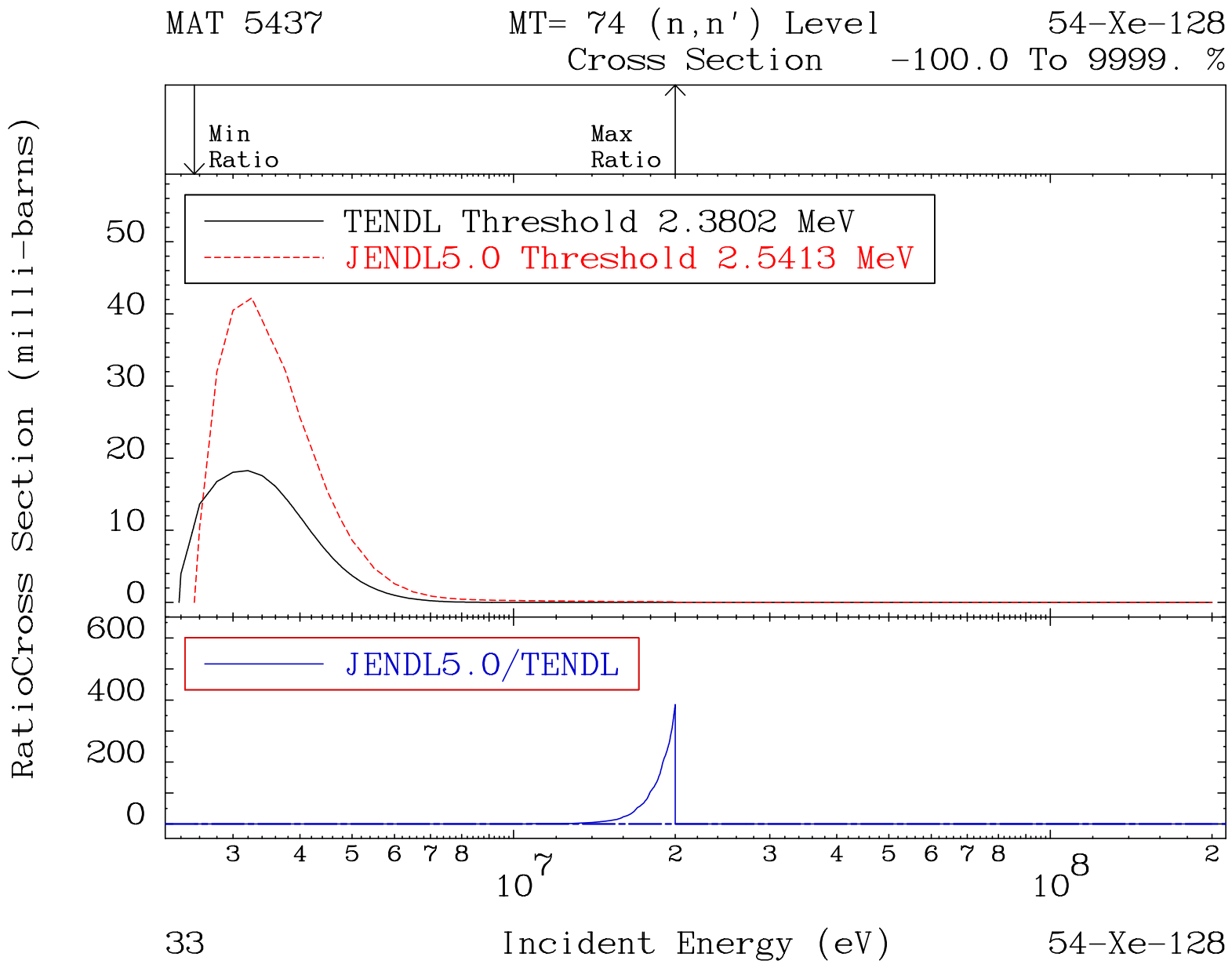

MAT 5437
MT= 69 (n,n') Level
54-Xe-128
Cross Section
-100.0 To 139.4 %
Min Ratio
Max Ratio
TENDL Threshold 2.2940 MeV
JENDL5.0 Threshold 2.4632 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
54-Xe-128

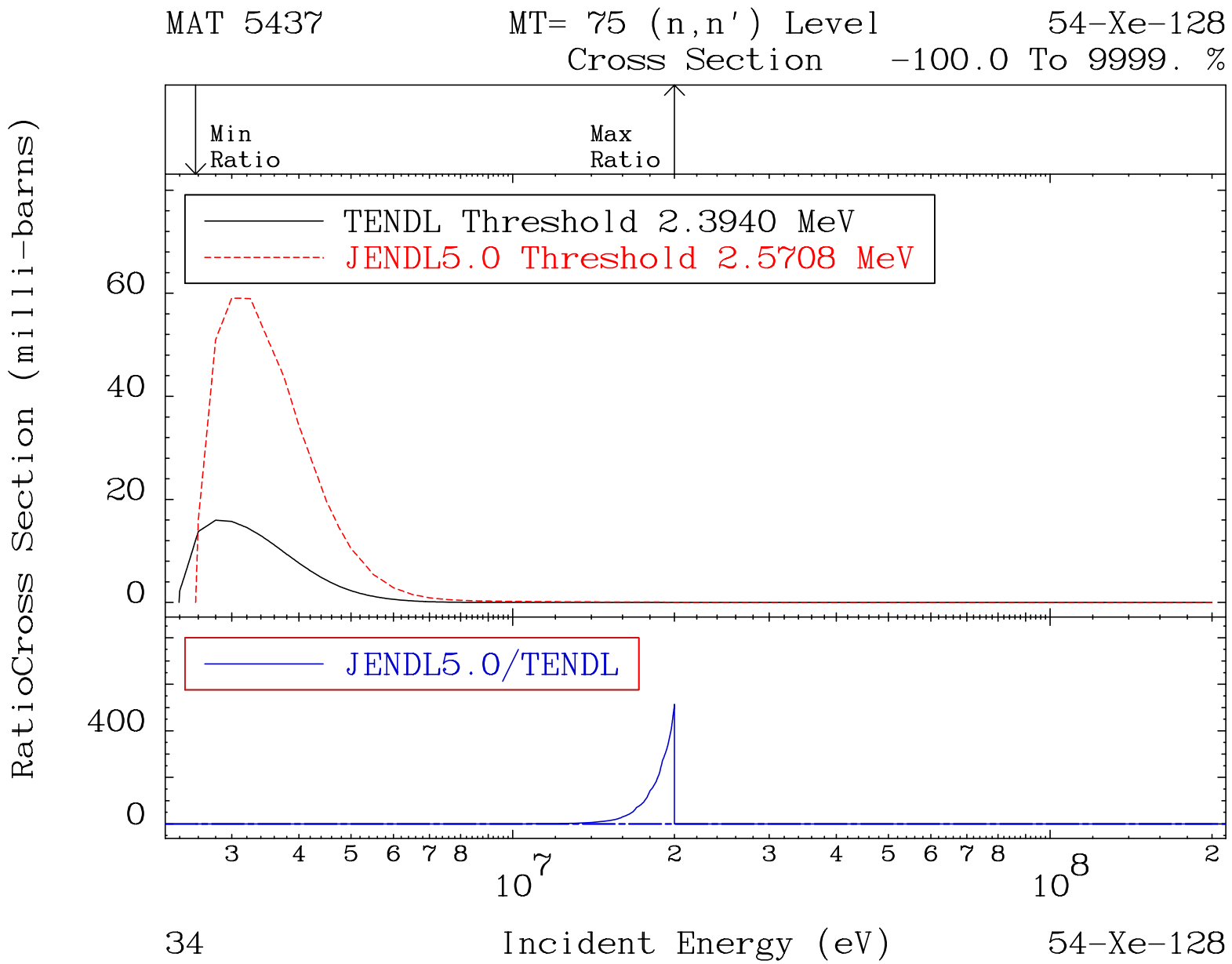

MAT 5437
MT= 70 (n,n') Level
54-Xe-128
Cross Section -100.0 To 2799. %
Max
Ratio
TENDL Threshold 2.2989 MeV
JENDL5.0 Threshold 2.5021 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
40
20
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
54-Xe-128

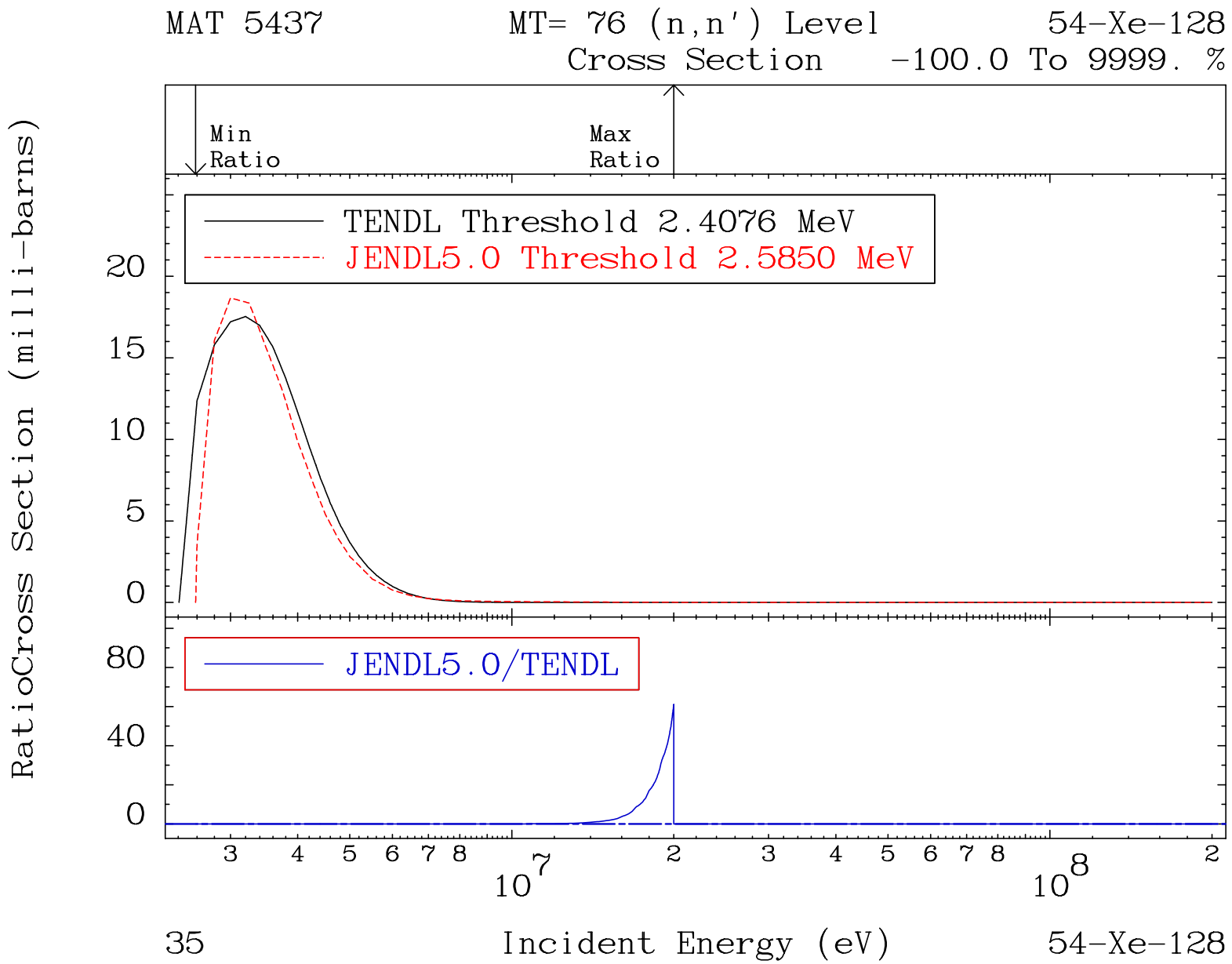

MAT 5437
MT= 71 (n,n') Level
54-Xe-128
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.3239 MeV
JENDL5.0 Threshold 2.5205 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
54-Xe-128

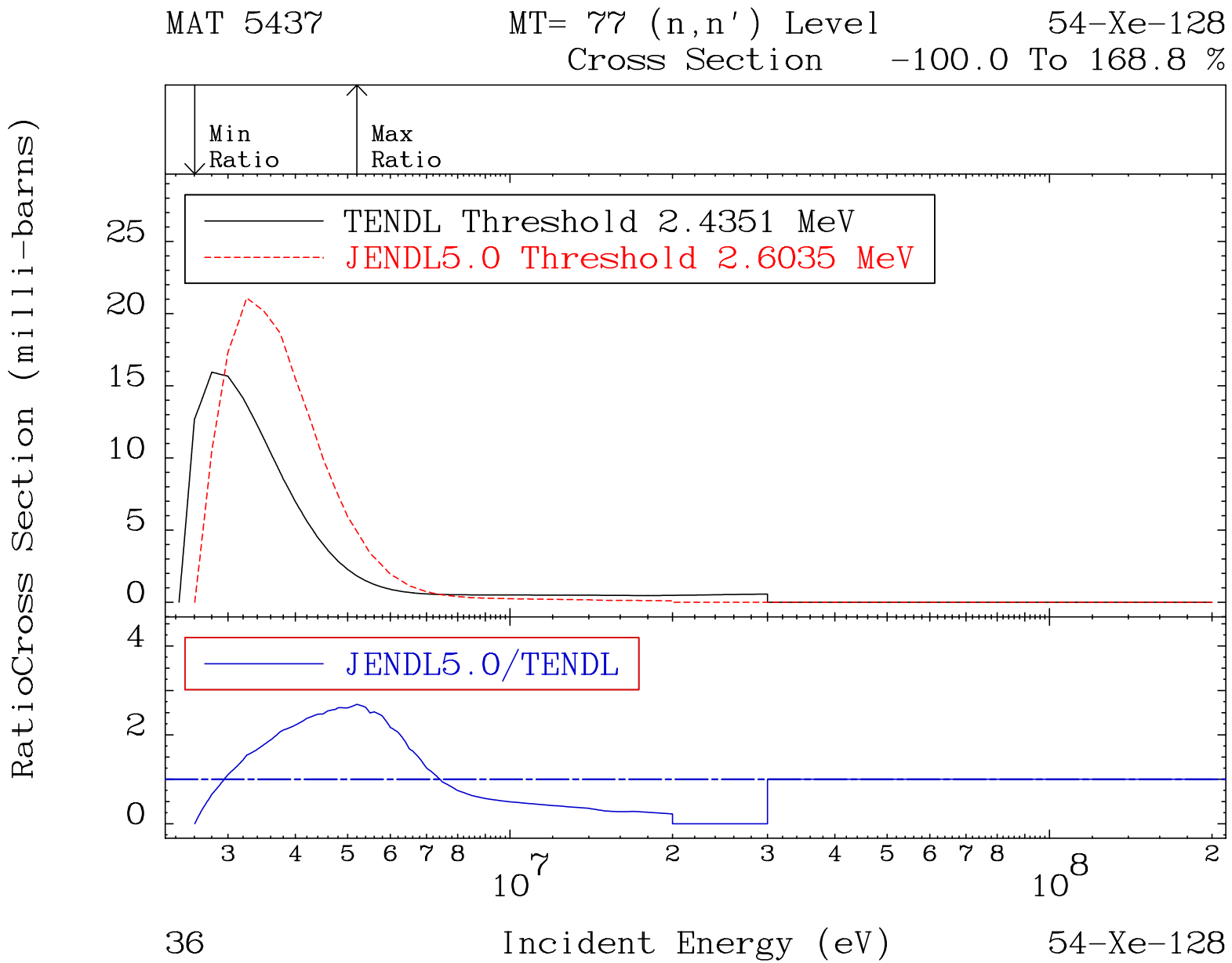

MAT 5437
MT= 72 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.3545 MeV
JENDL5.0 Threshold 2.5305 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
300
200
100
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
54-Xe-128

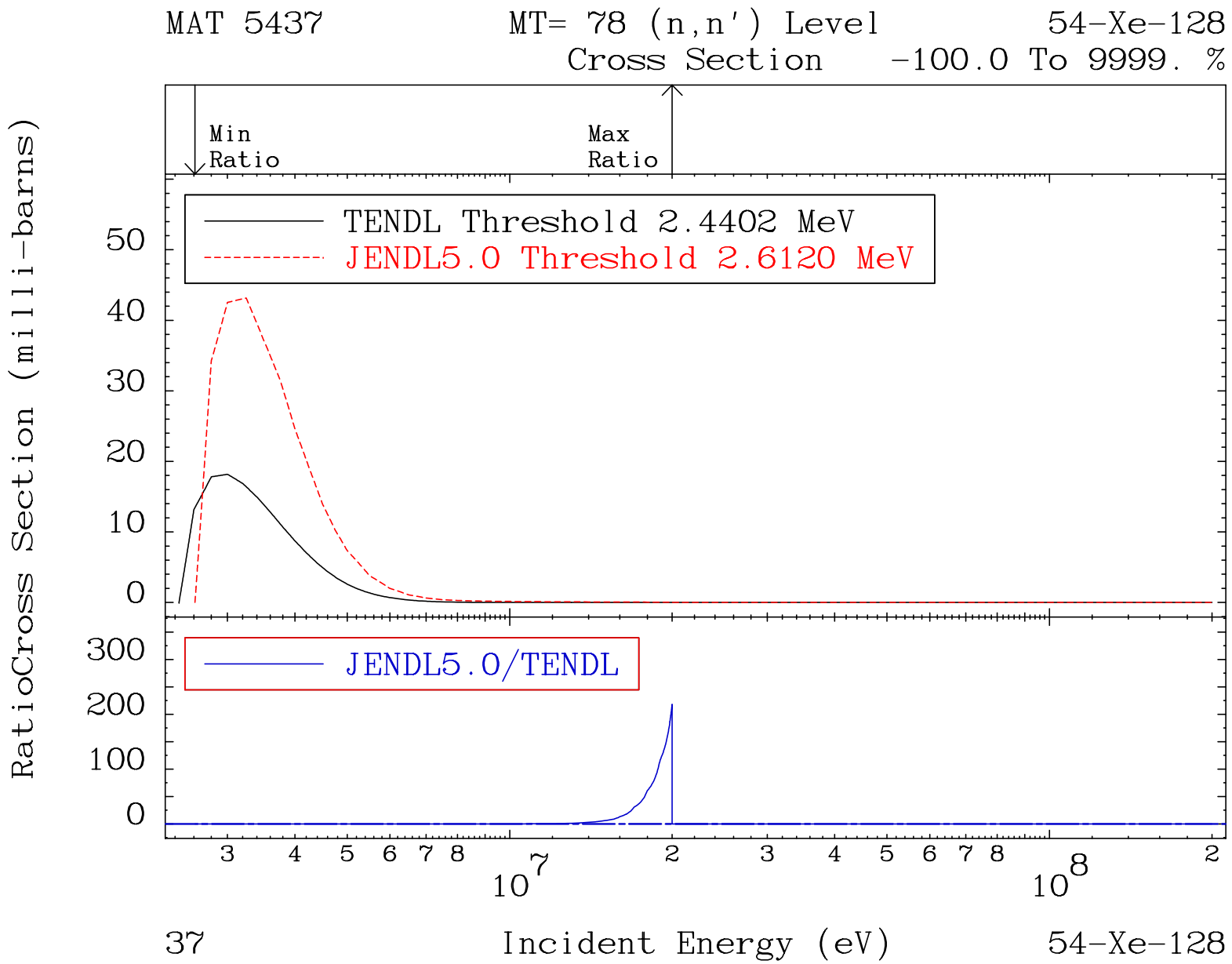

MAT 5437
MT= 73 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.3786 MeV
JENDL5.0 Threshold 2.5324 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
0.8
0.4
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
54-Xe-128

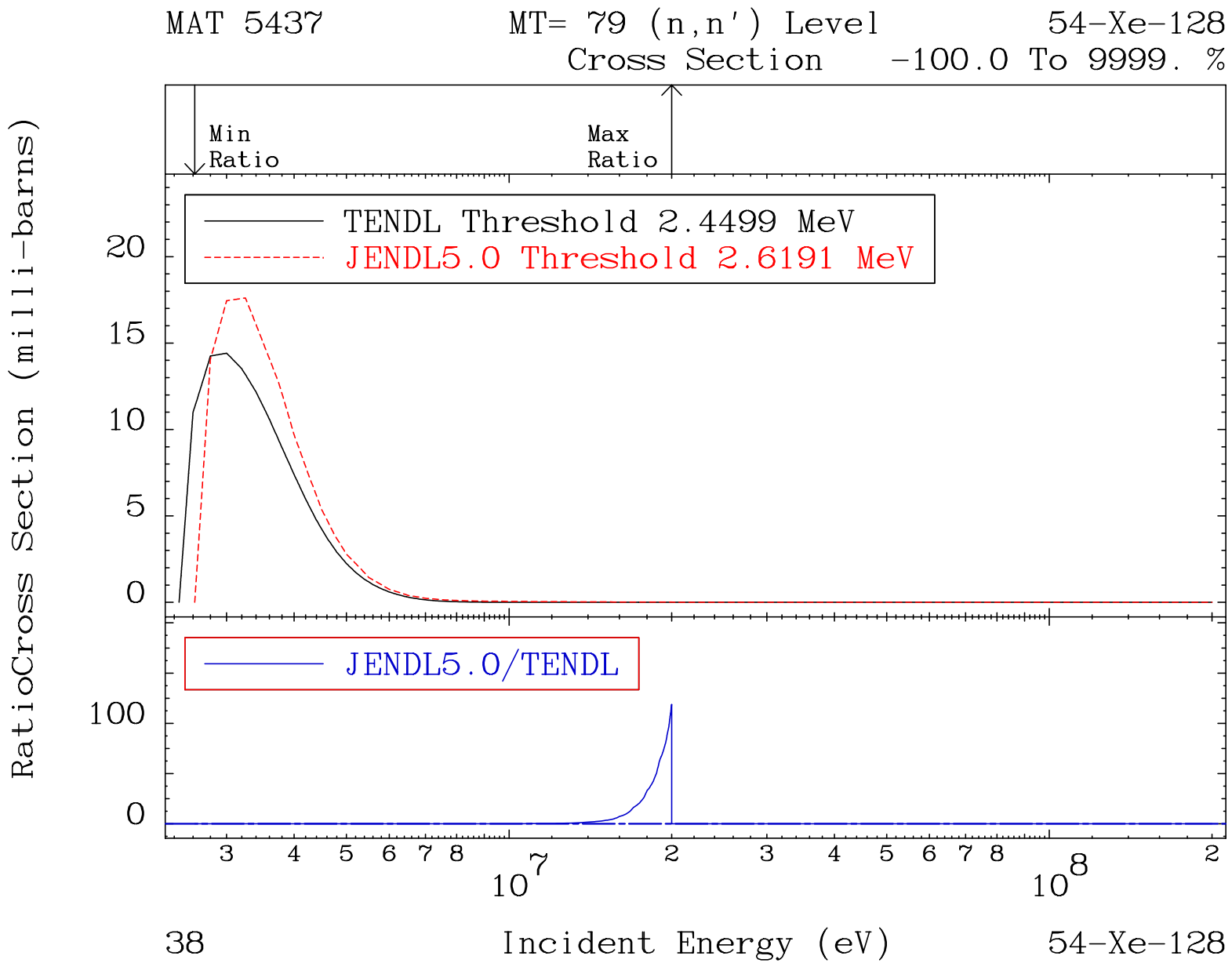

MAT 5437
MT= 74 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.3802 MeV
JENDL5.0 Threshold 2.5413 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
600
400
200
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
54-Xe-128

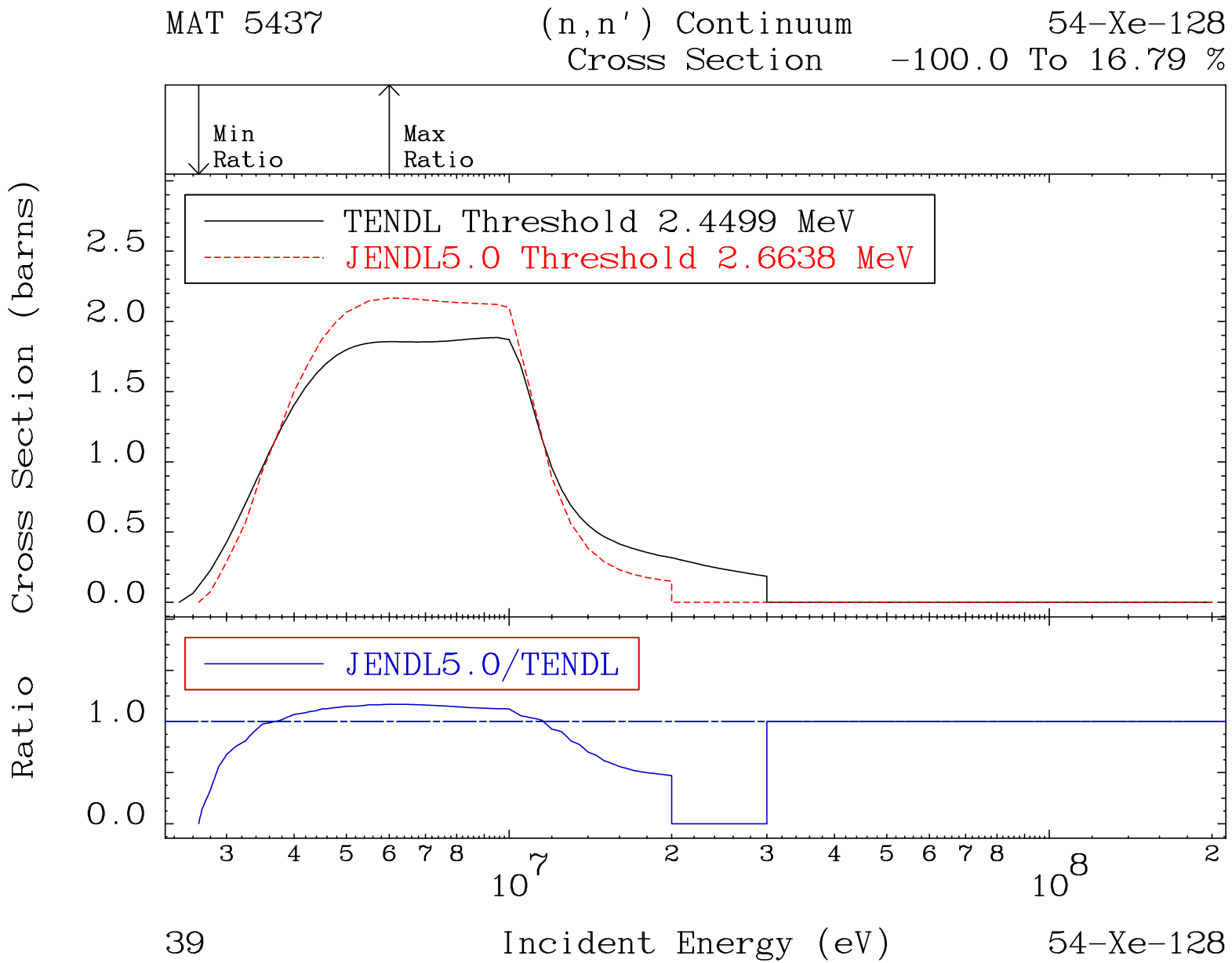

MAT 5437
MT= 75 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.3940 MeV
JENDL5.0 Threshold 2.5708 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
400
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
54-Xe-128

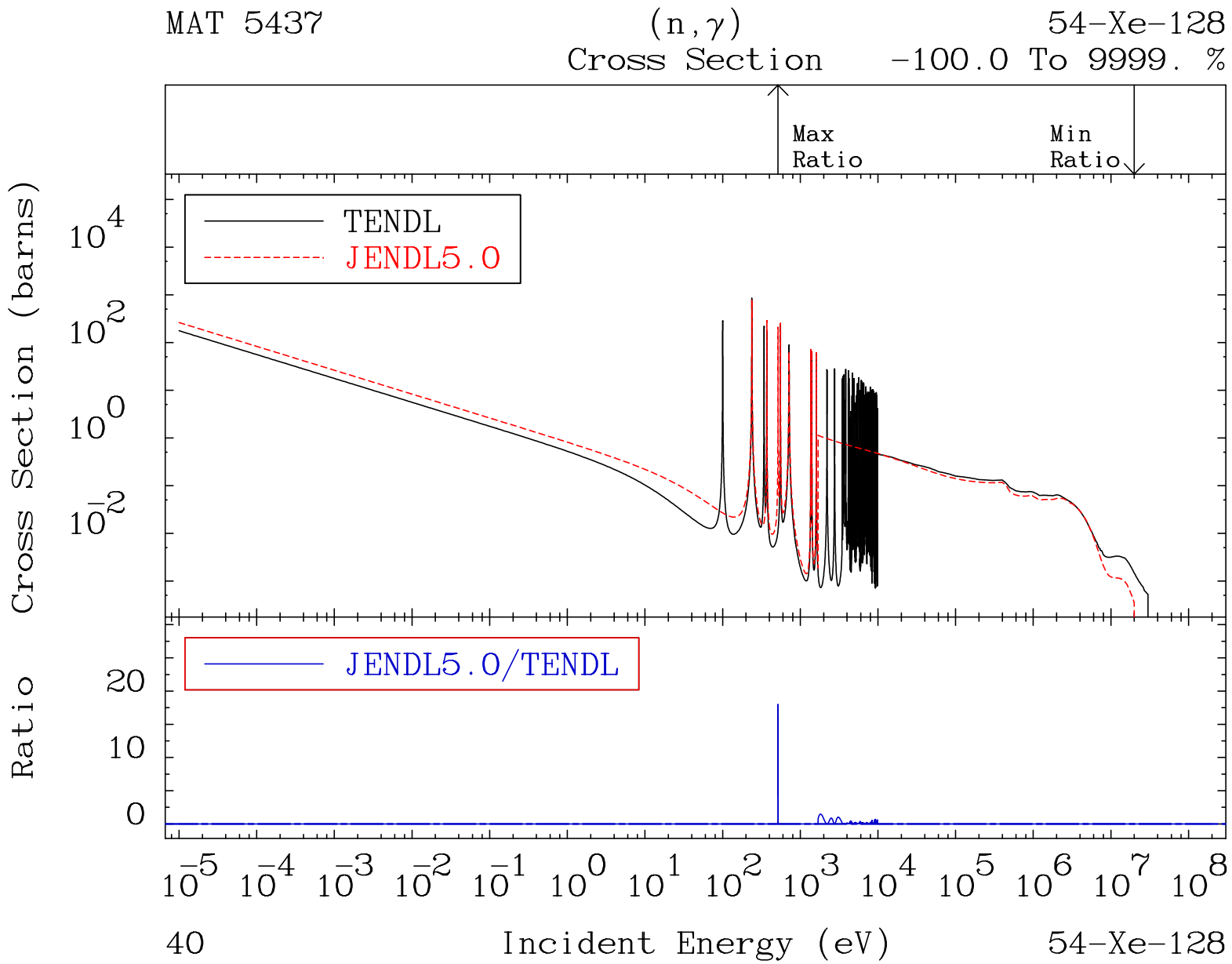

MAT 5437
MT= 76 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.4076 MeV
JENDL5.0 Threshold 2.5850 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
80
40
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
54-Xe-128

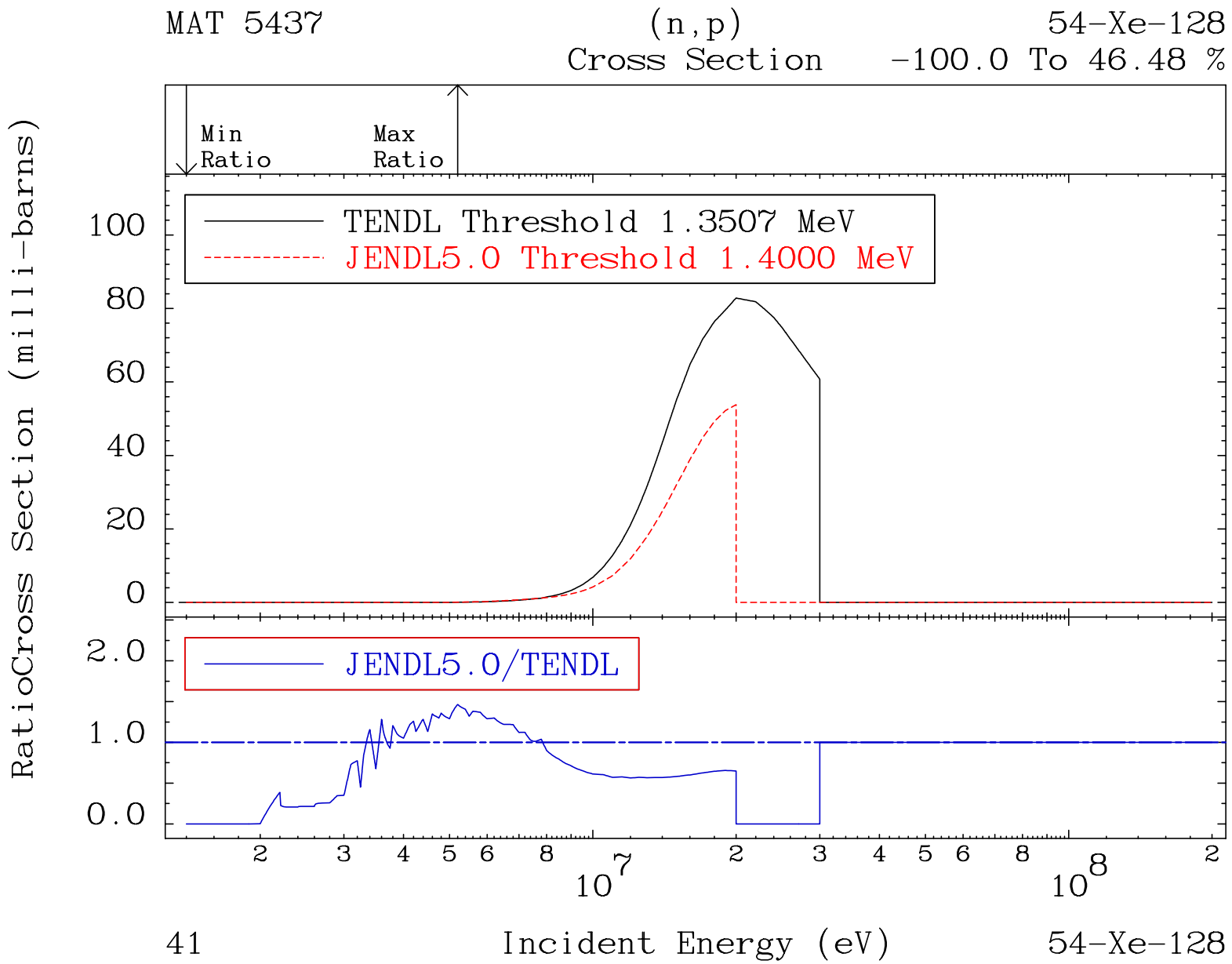

MAT 5437
MT= 77 (n,n') Level
54-Xe-128
Cross Section -100.0 To 168.8 %
Min Ratio
Max Ratio
TENDL Threshold 2.4351 MeV
JENDL5.0 Threshold 2.6035 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
54-Xe-128

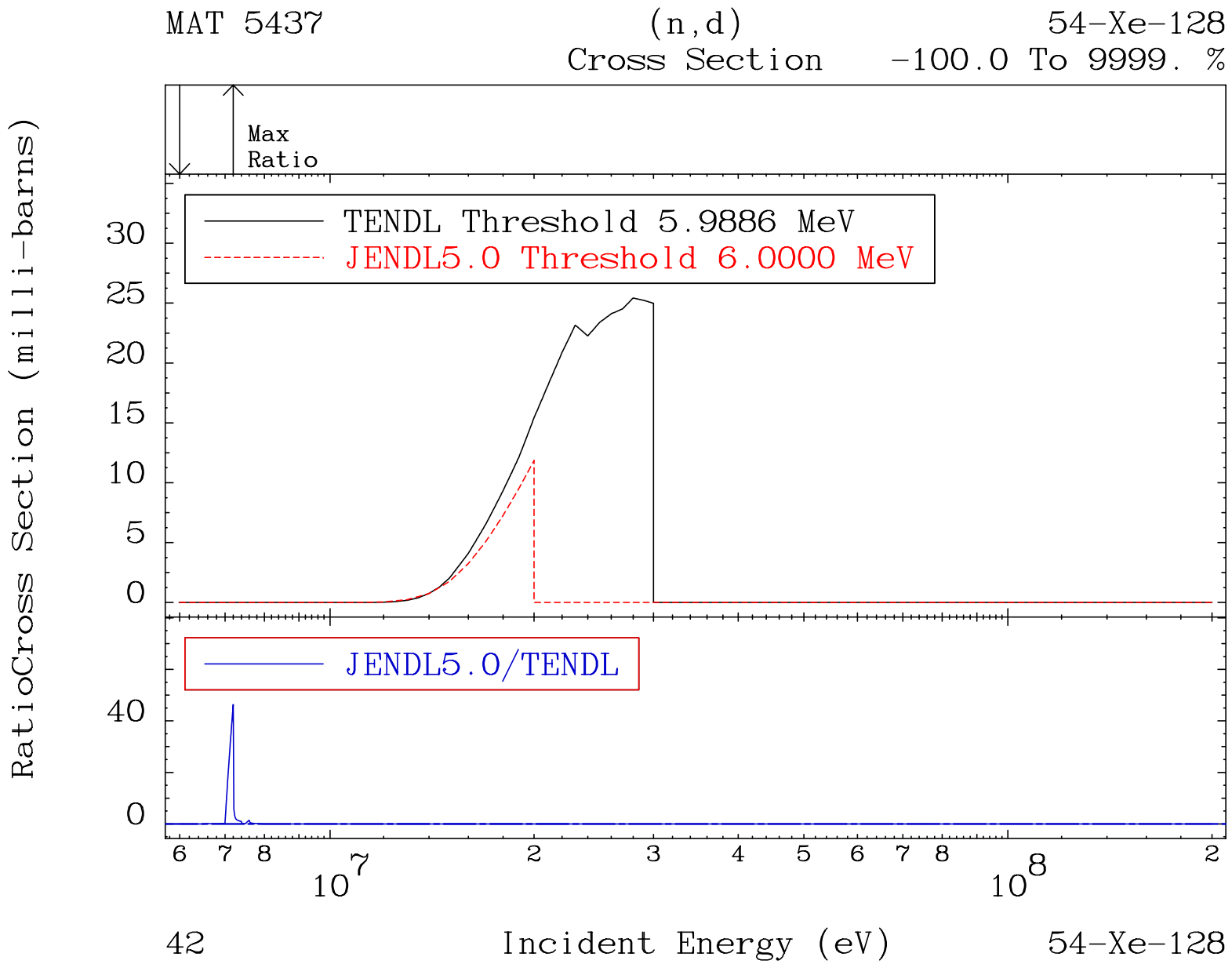

MAT 5437
MT= 78 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.4402 MeV
JENDL5.0 Threshold 2.6120 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
300
200
100
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
54-Xe-128

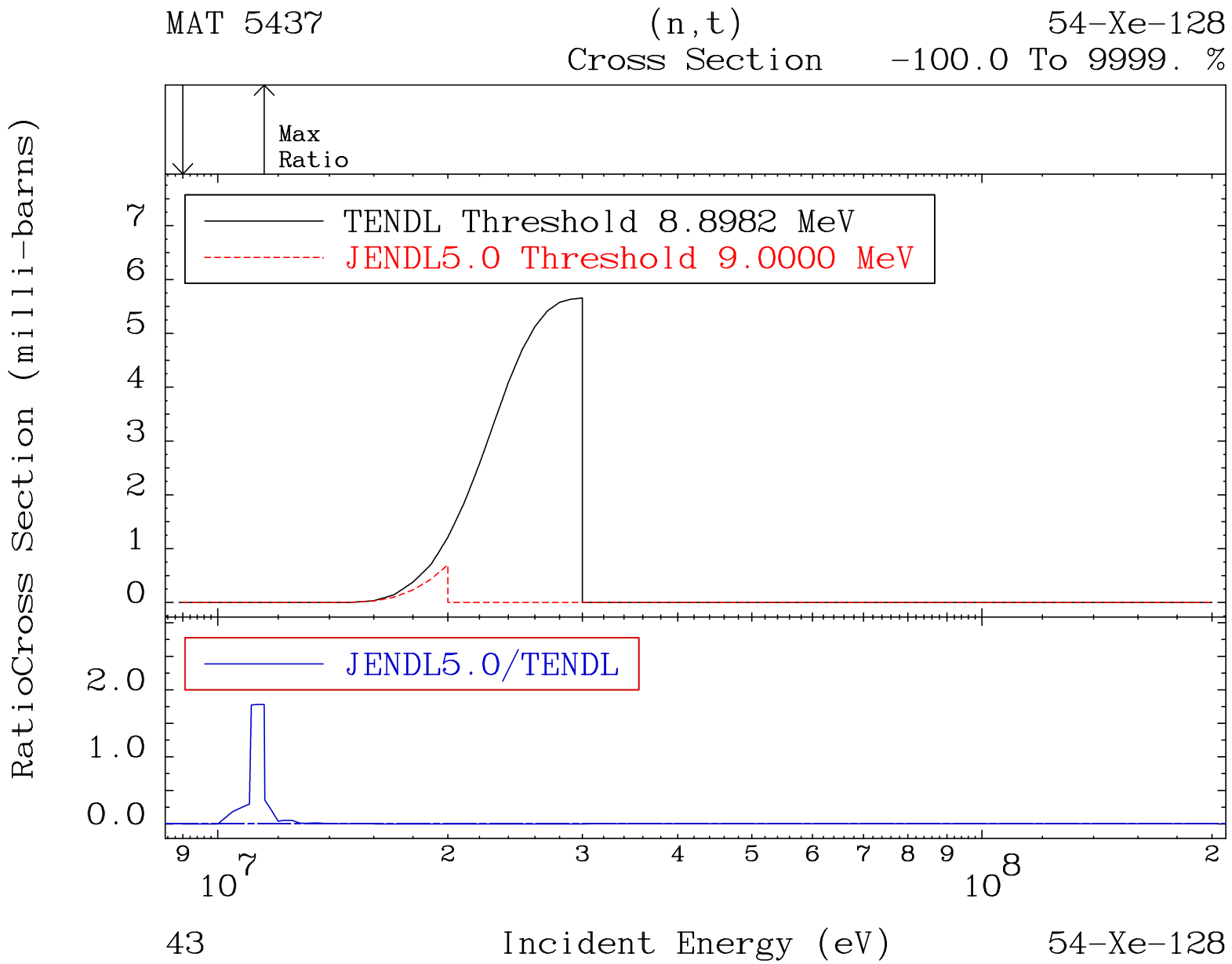

MAT 5437
MT= 79 (n,n') Level
54-Xe-128
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.4499 MeV
JENDL5.0 Threshold 2.6191 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
100
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
54-Xe-128

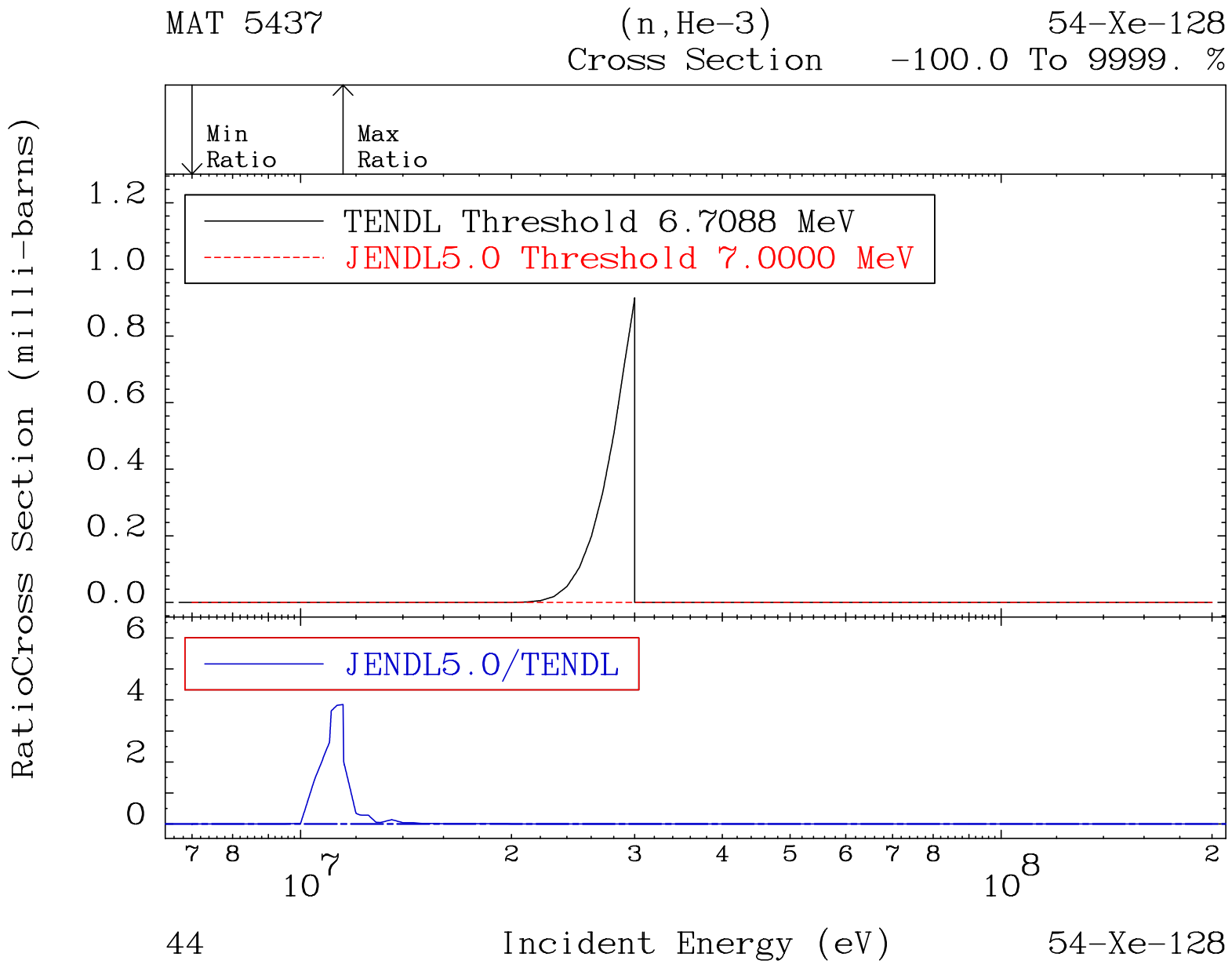

MAT 5437
(n,n') Continuum
Cross Section
54-Xe-128
-100.0 To 16.79 %
Min Ratio
Max Ratio
TENDL Threshold 2.4499 MeV
JENDL5.0 Threshold 2.6638 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
54-Xe-128

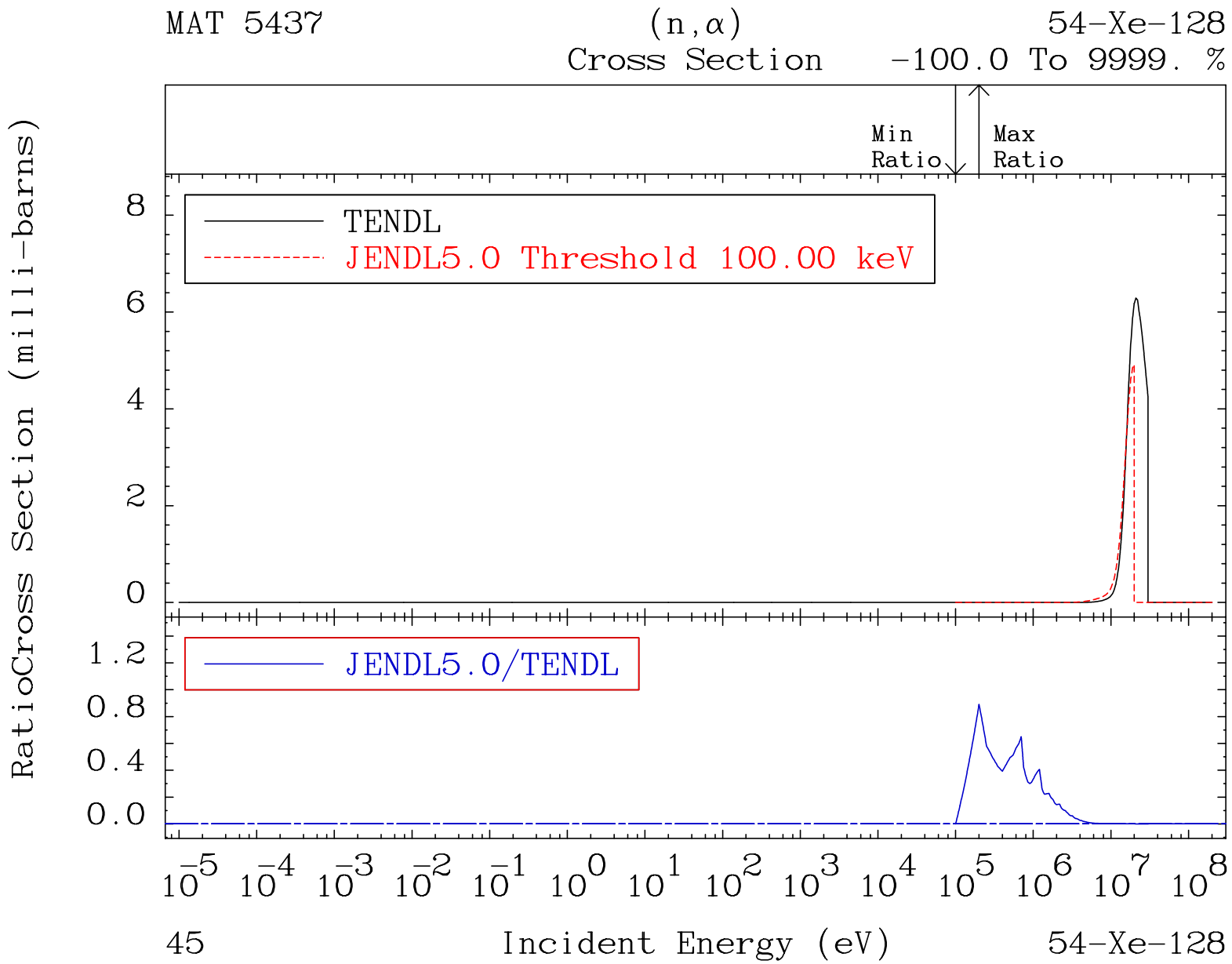

MAT 5437
(n,γ)
Cross Section
54-Xe-128
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^4
10^2
10^0
10^-2
JENDL5.0/TENDL
Ratio
20
10
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
40
54-Xe-128

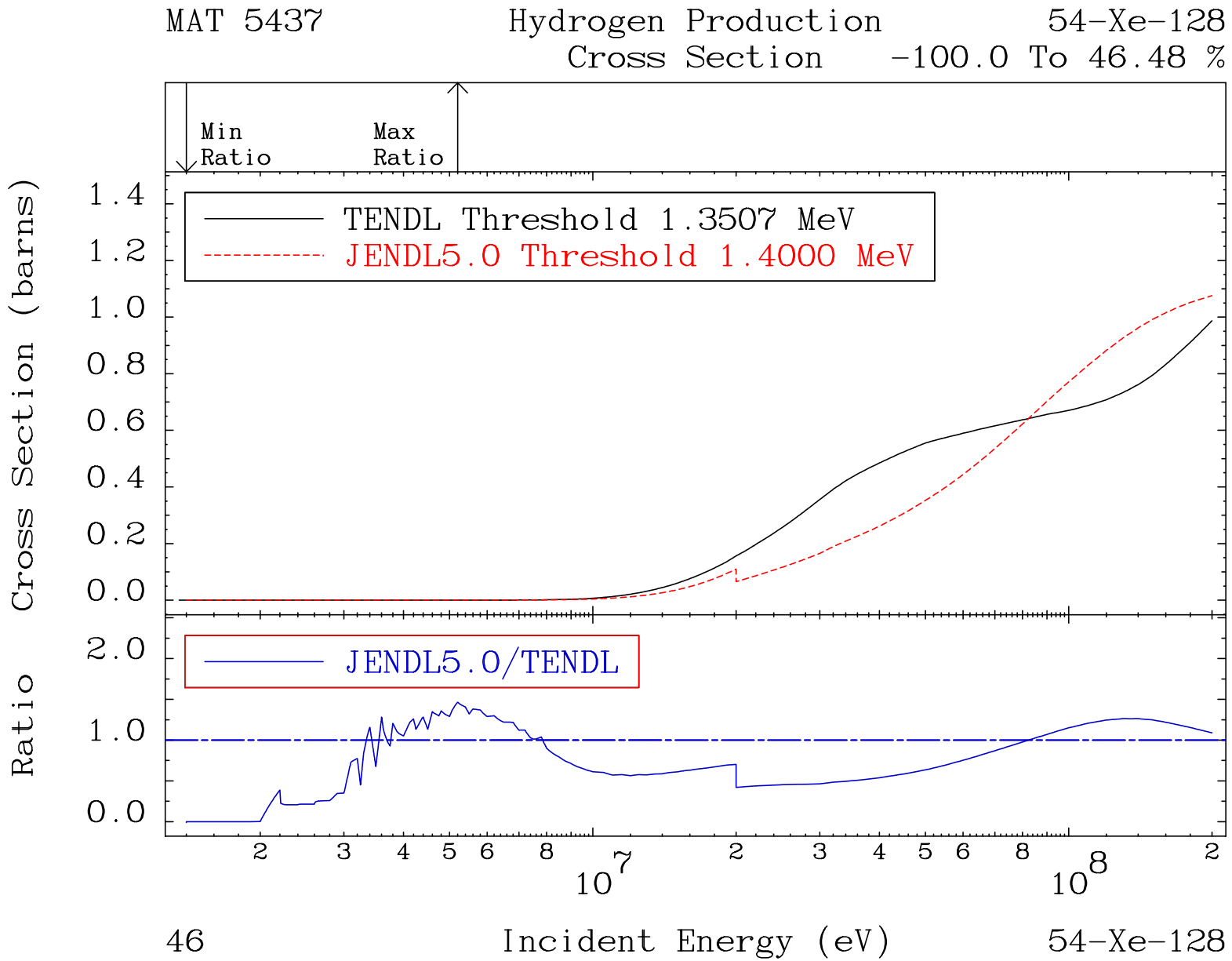

MAT 5437
(n,p)
54-Xe-128
Cross Section
-100.0 To 46.48 %
Min Ratio
Max Ratio
TENDL Threshold 1.3507 MeV
JENDL5.0 Threshold 1.4000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
41
Incident Energy (eV)
54-Xe-128

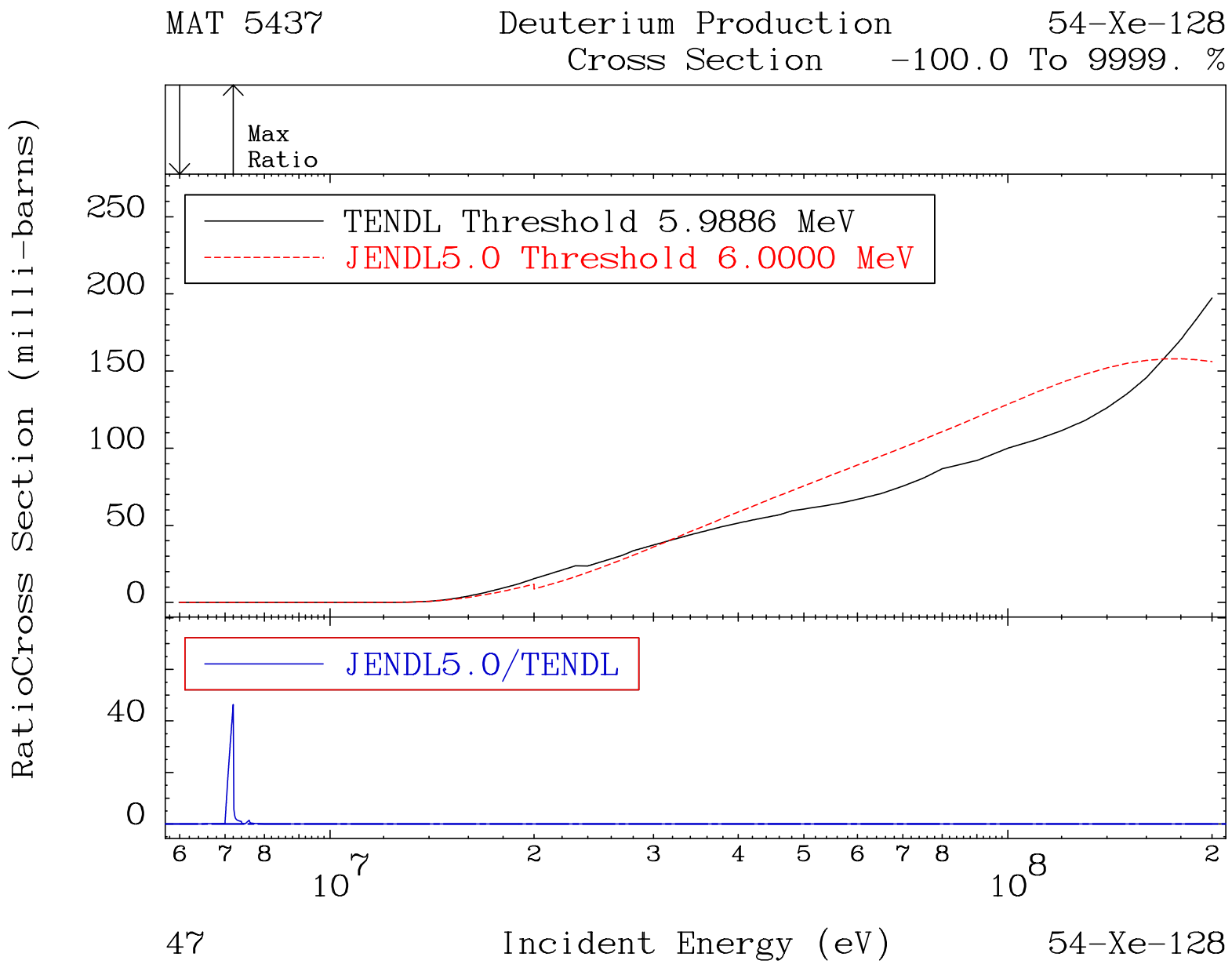

MAT 5437
(n,d)
54-Xe-128
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.9886 MeV
JENDL5.0 Threshold 6.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
40
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
42
Incident Energy (eV)
54-Xe-128

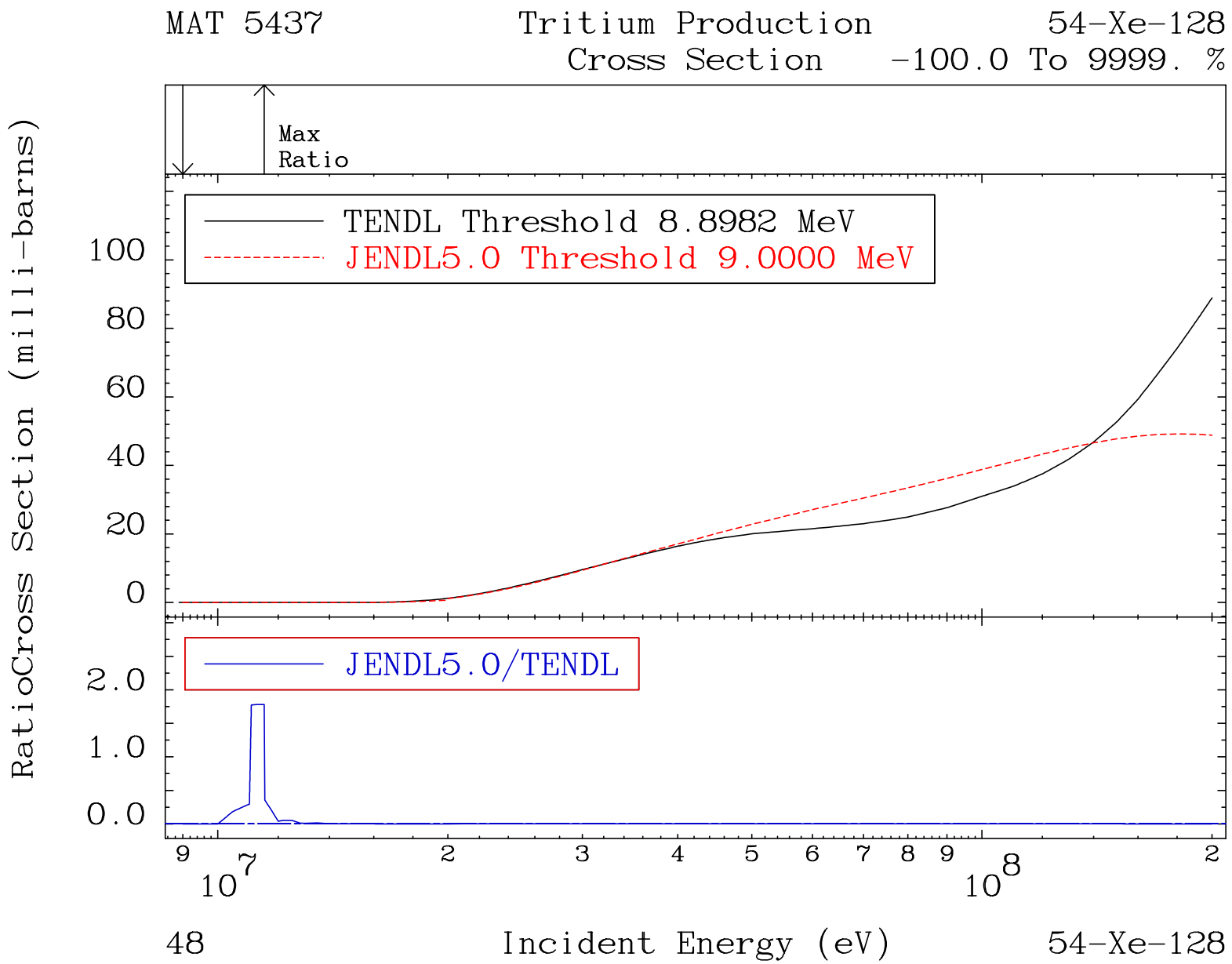

MAT 5437
(n,t)
54-Xe-128
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 8.8982 MeV
JENDL5.0 Threshold 9.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
6
7
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
54-Xe-128

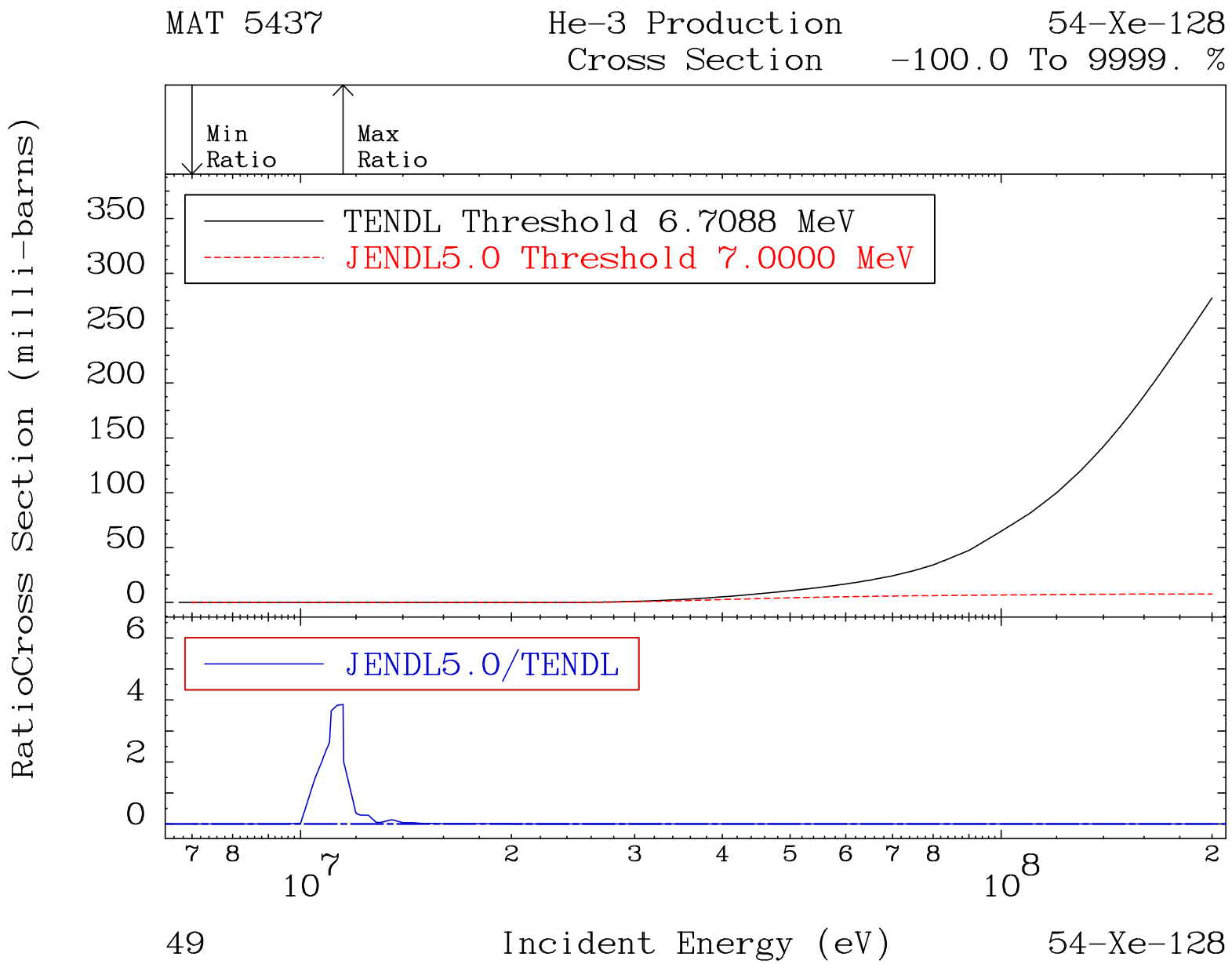

MAT 5437
(n,He-3)
54-Xe-128
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.7088 MeV
JENDL5.0 Threshold 7.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
6
4
2
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
54-Xe-128

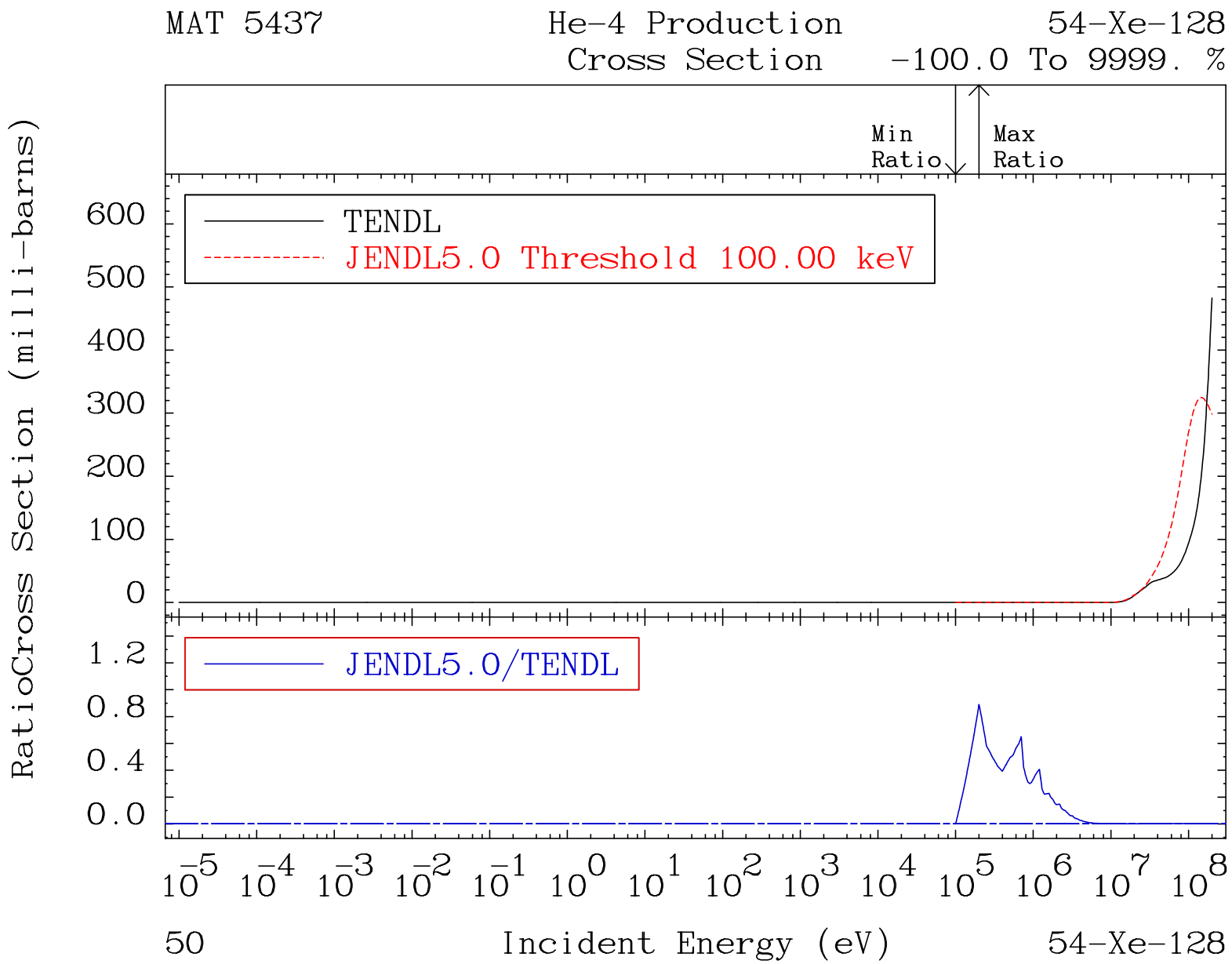

MAT 5437
(n,α)
54-Xe-128
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 100.00 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
1.2
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
45
Incident Energy (eV)
54-Xe-128

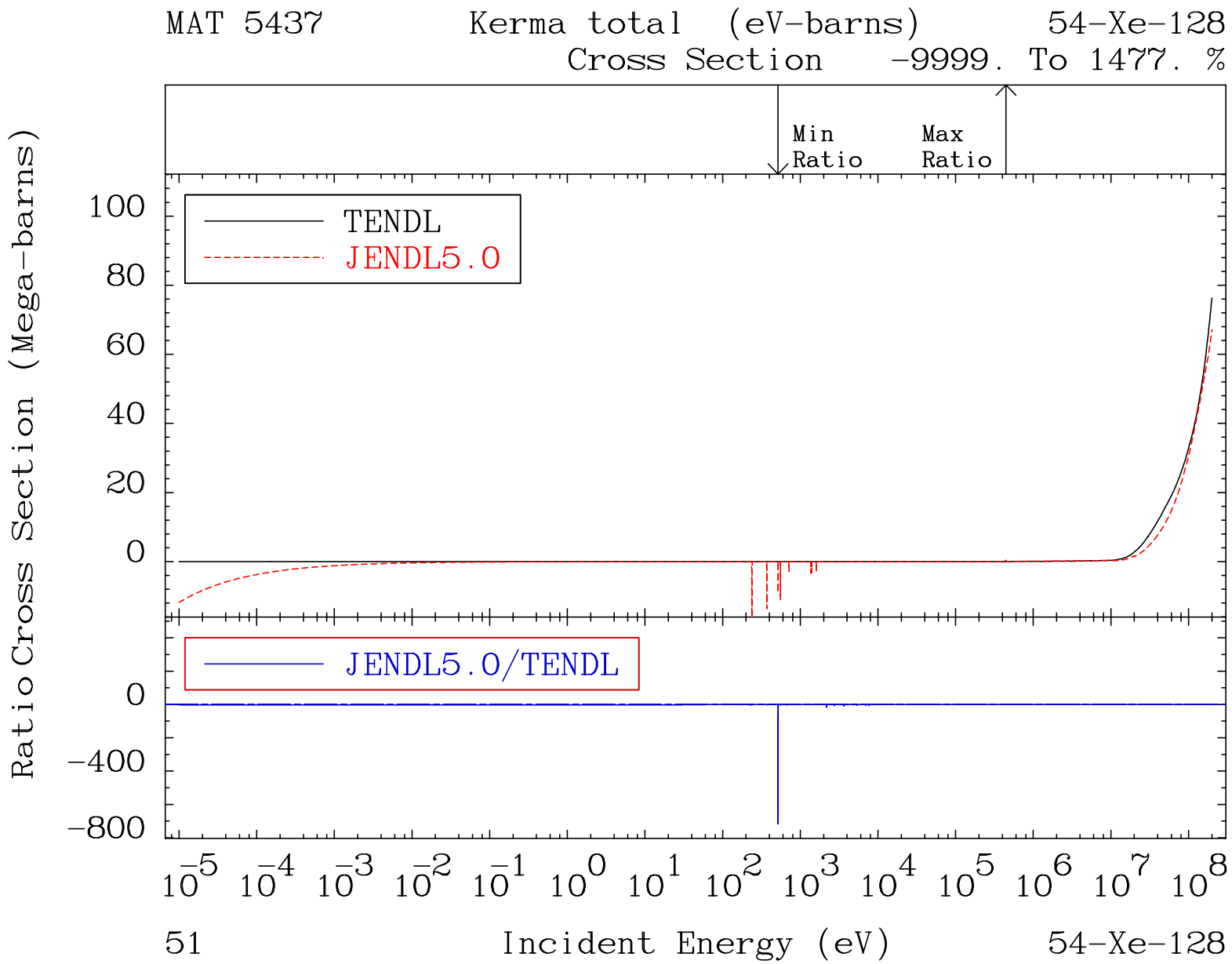

MAT 5437
Hydrogen Production
54-Xe-128
Cross Section
-100.0 To 46.48 %
Min Ratio
Max Ratio
TENDL Threshold 1.3507 MeV
JENDL5.0 Threshold 1.4000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
46
Incident Energy (eV)
54-Xe-128

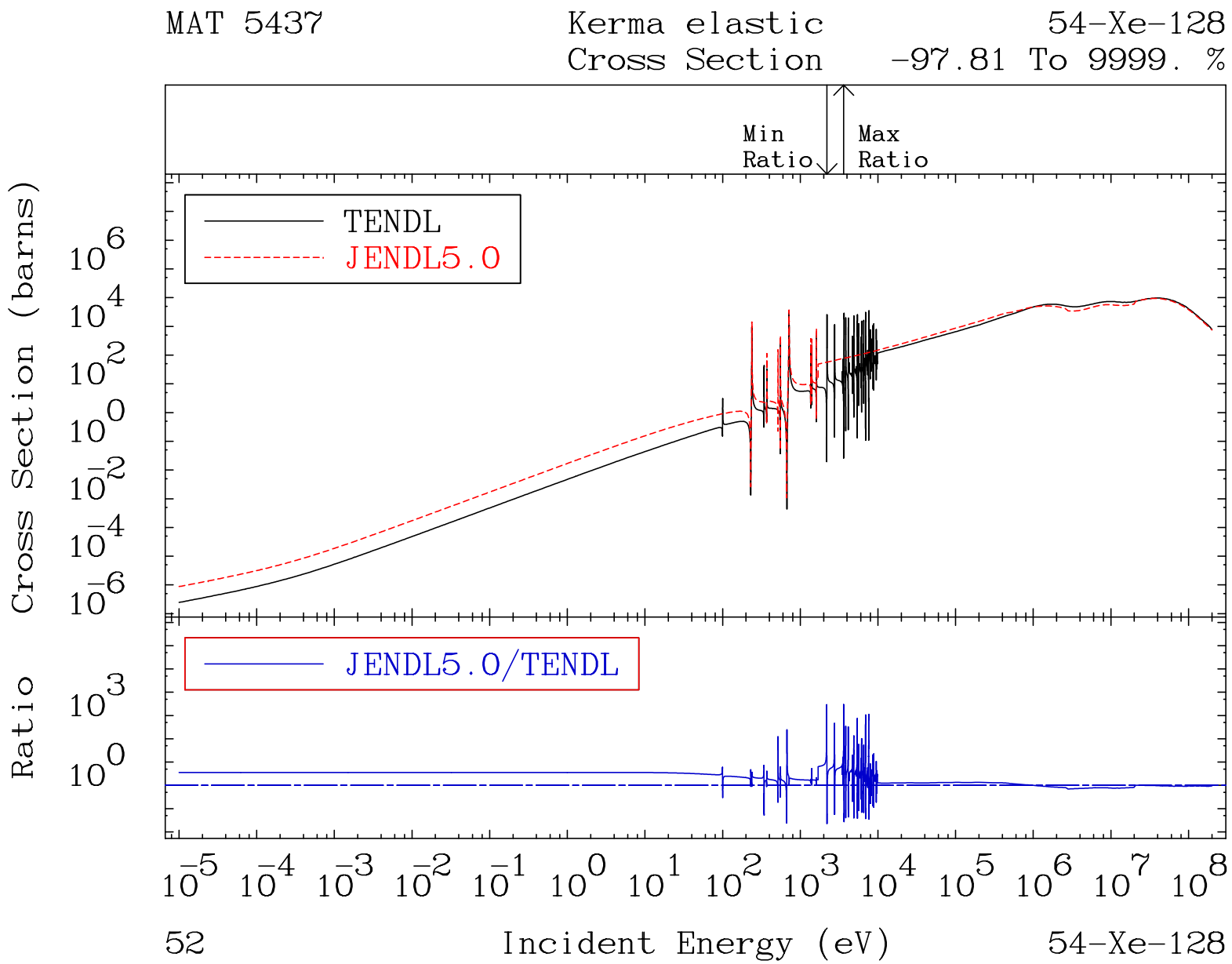

MAT 5437
Deuterium Production
54-Xe-128
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.9886 MeV
JENDL5.0 Threshold 6.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
40
0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
47
Incident Energy (eV)
54-Xe-128

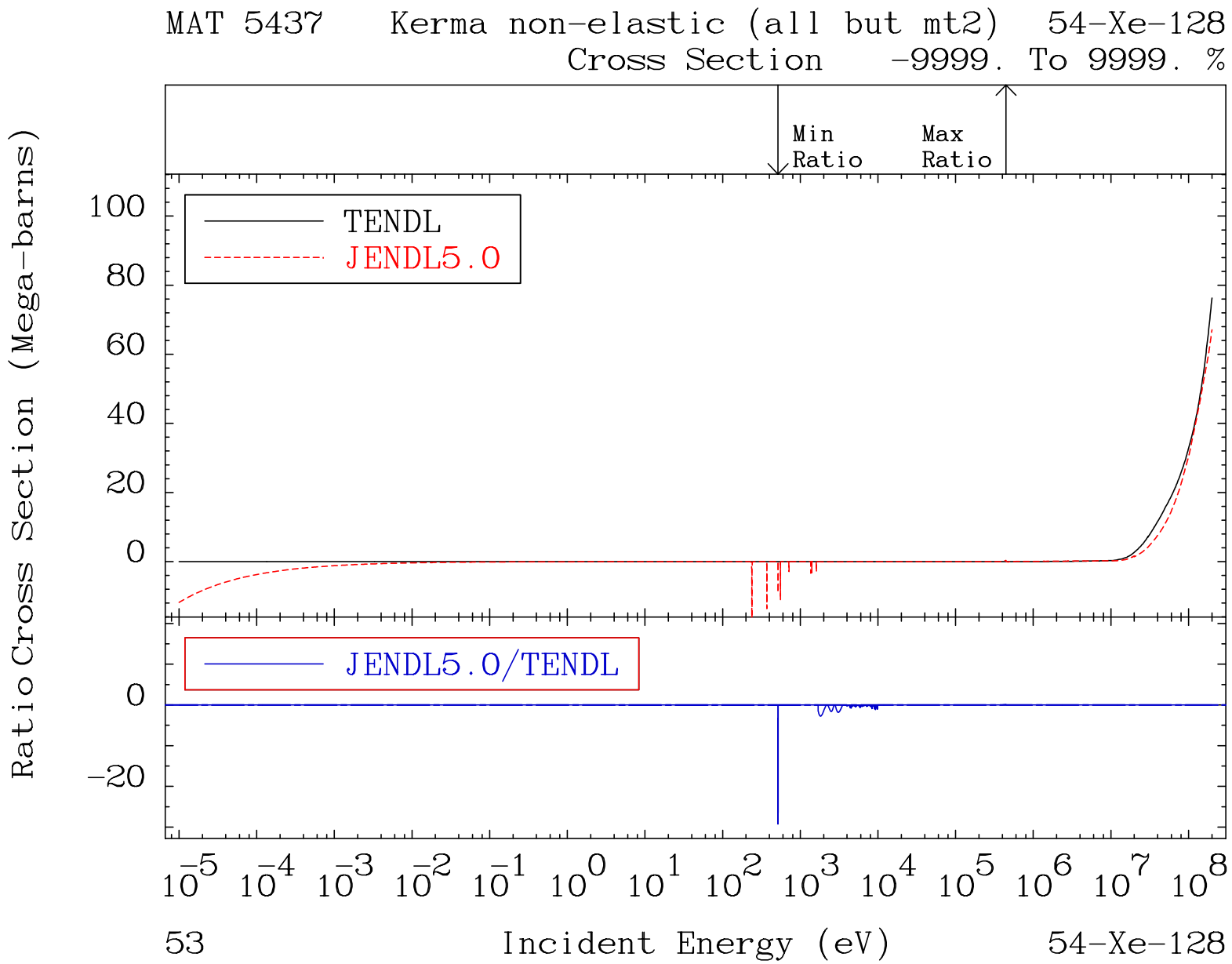

MAT 5437
Tritium Production
54-Xe-128
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 8.8982 MeV
JENDL5.0 Threshold 9.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
54-Xe-128

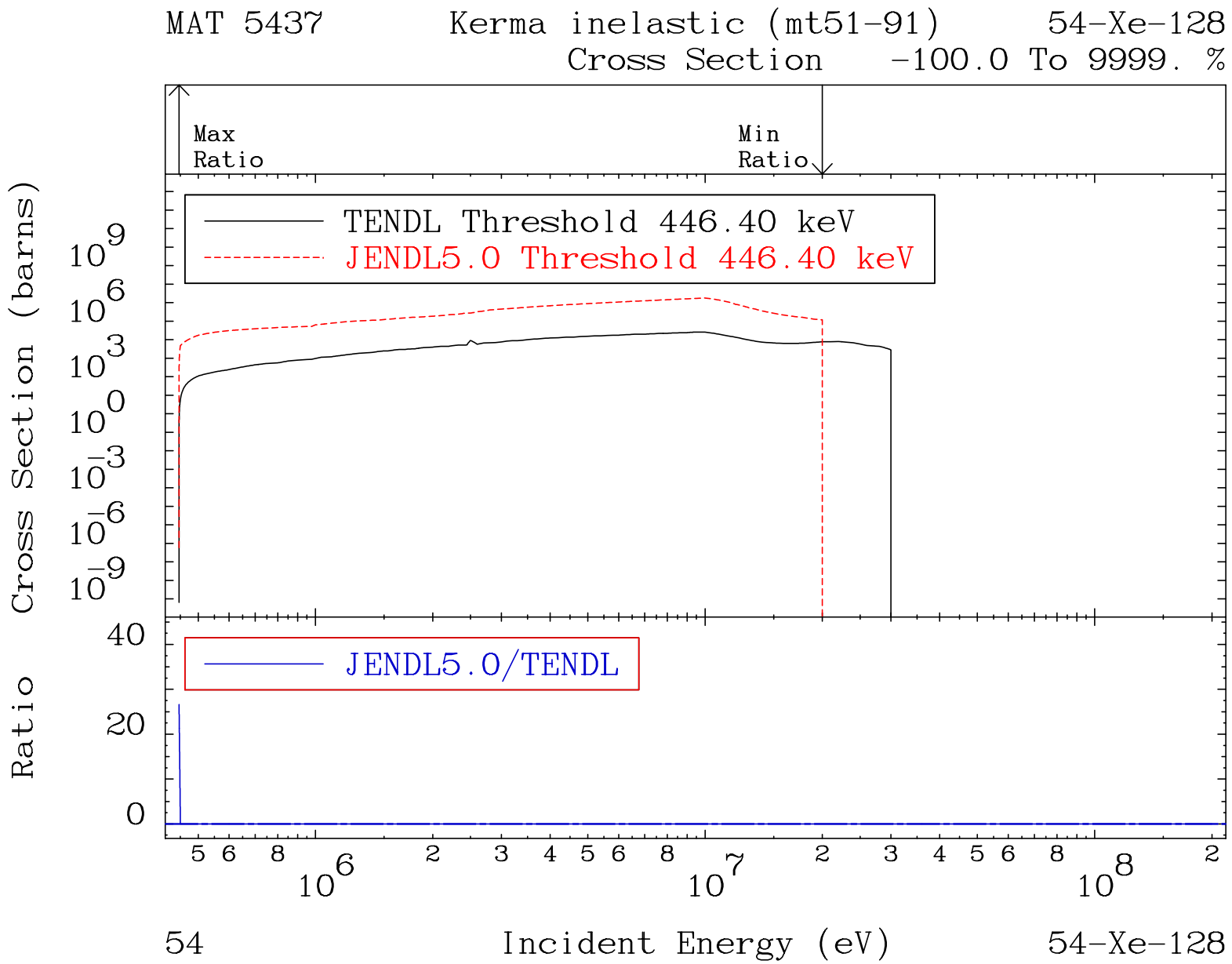

MAT 5437
He-3 Production
Cross Section
54-Xe-128
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.7088 MeV
JENDL5.0 Threshold 7.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
6
4
2
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
49
Incident Energy (eV)
54-Xe-128

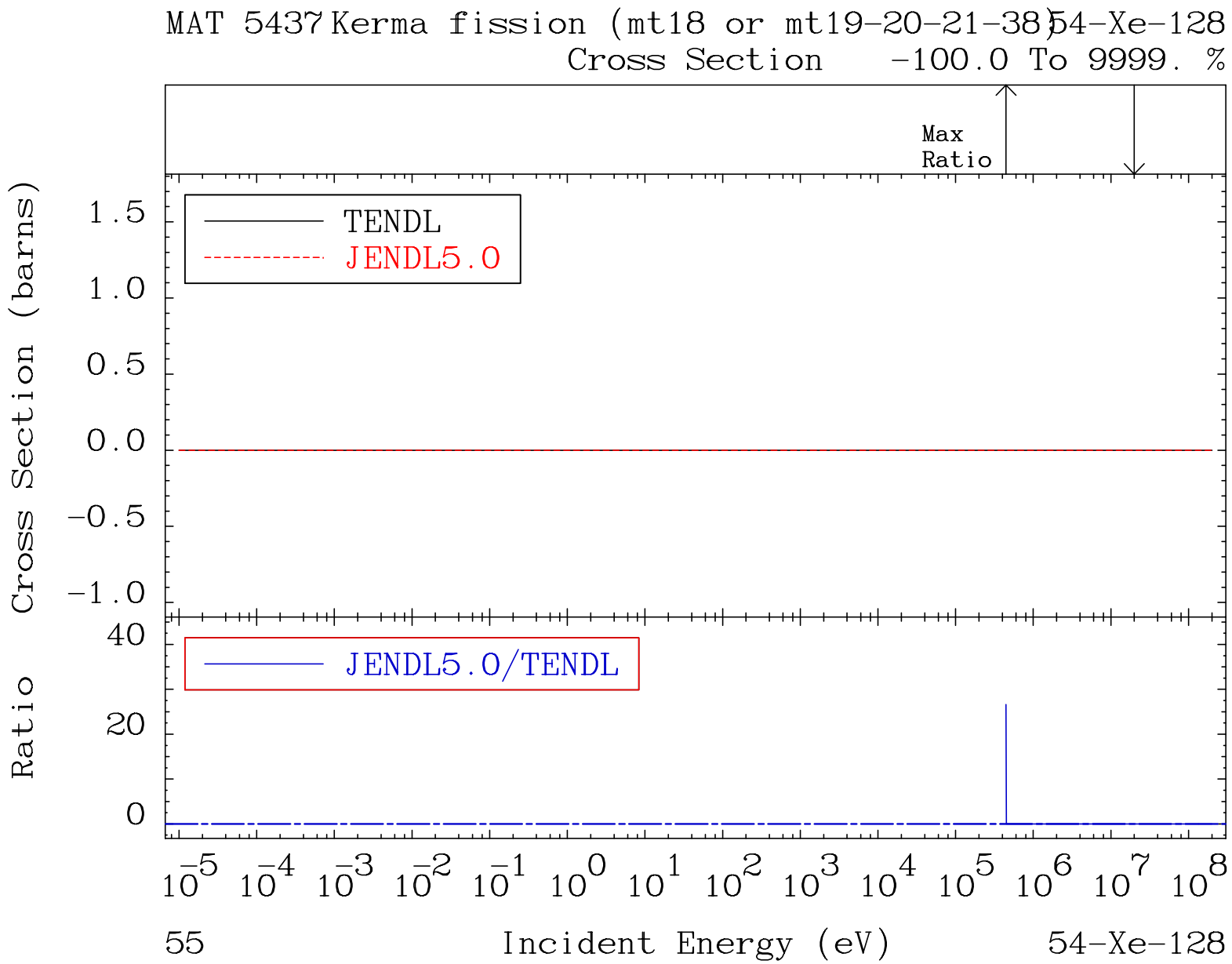

MAT 5437
He-4 Production
Cross Section
54-Xe-128
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 100.00 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
1.2
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
50
Incident Energy (eV)
54-Xe-128

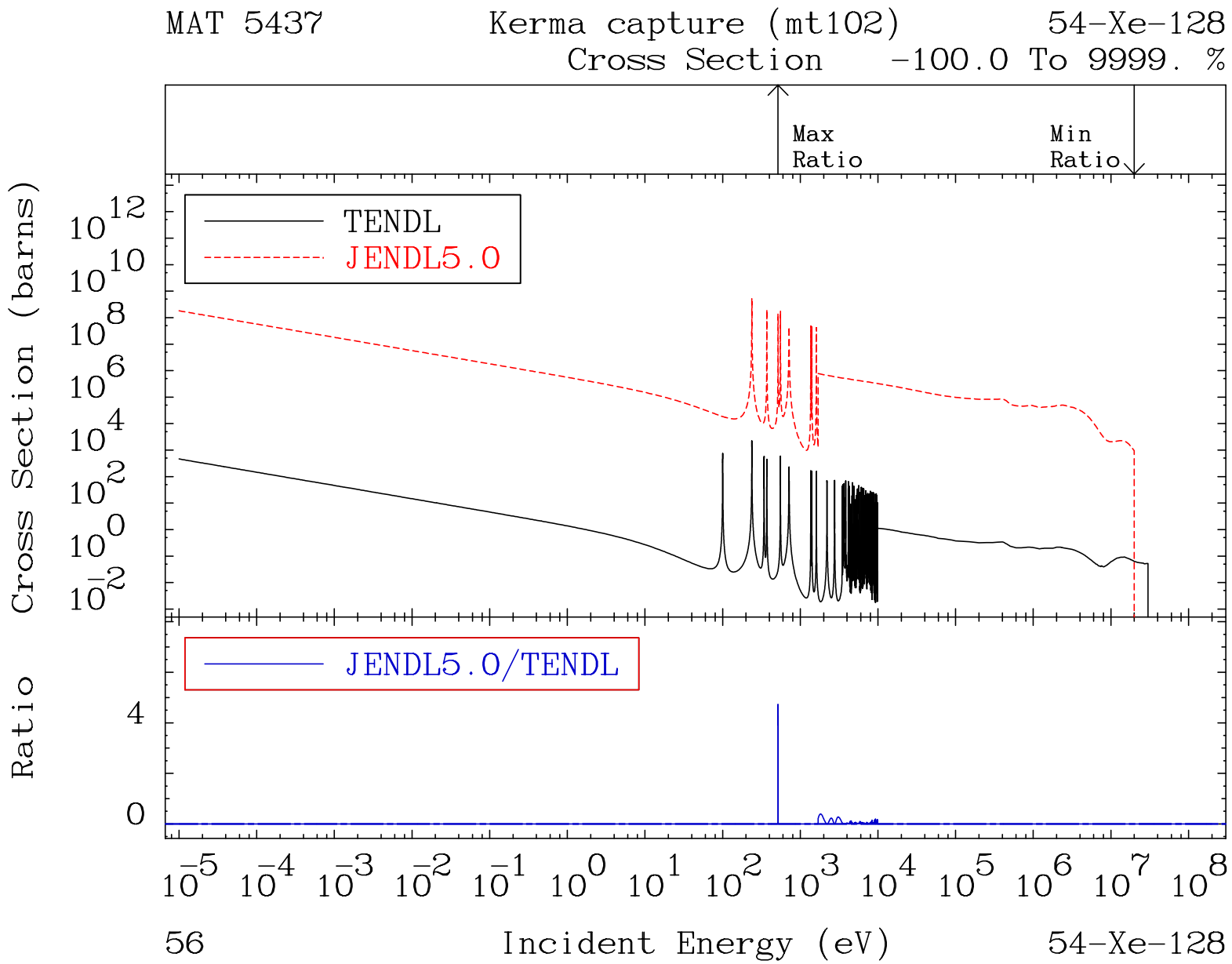

MAT 5437
Kerma total (eV-barns)
54-Xe-128
Cross Section -9999. To 1477. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Mega-barns)
100
80
60
40
20
0
0
-400
-800
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
51
Incident Energy (eV)
54-Xe-128

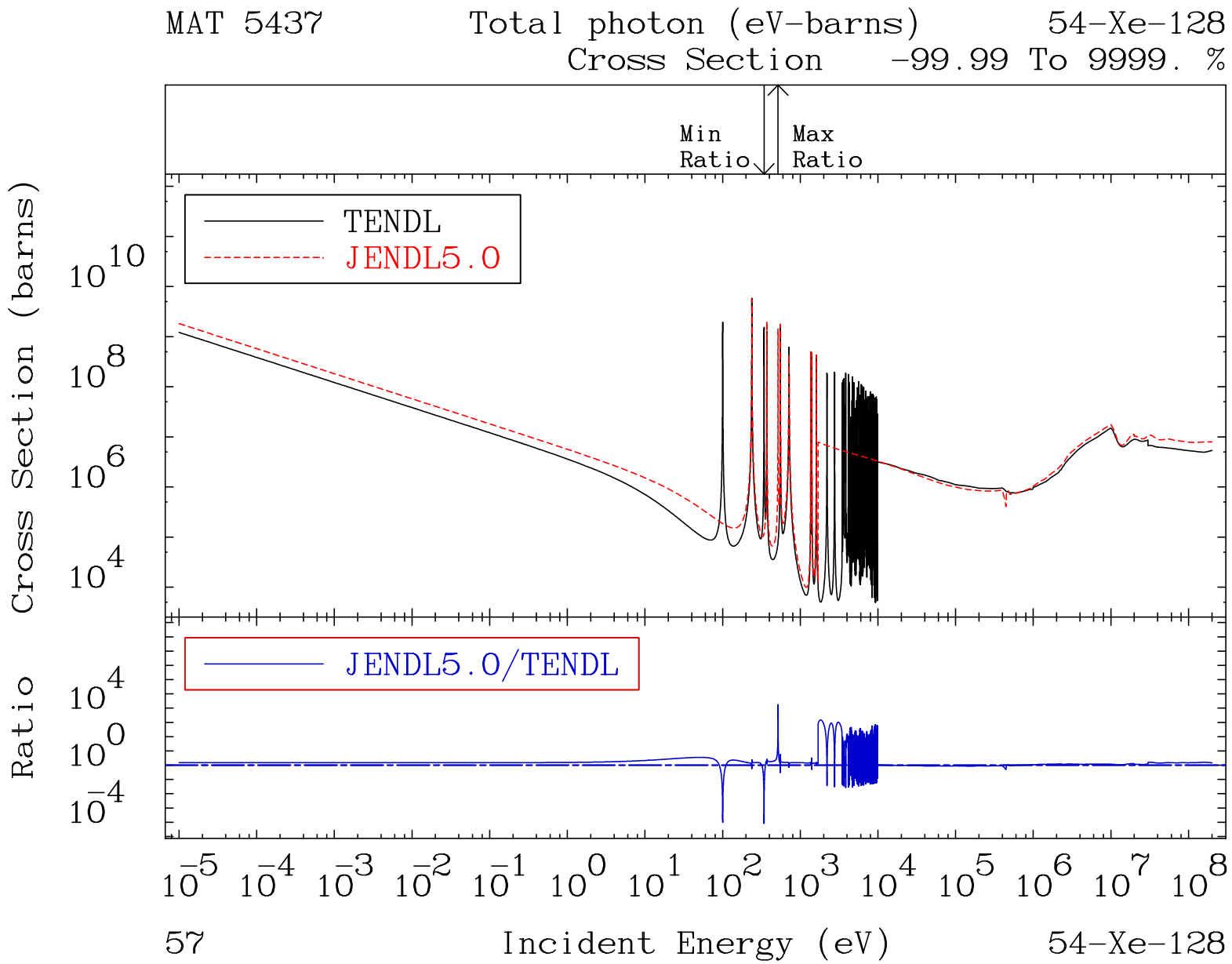

MAT 5437
Kerma elastic
Cross Section
54-Xe-128
-97.81 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
54-Xe-128

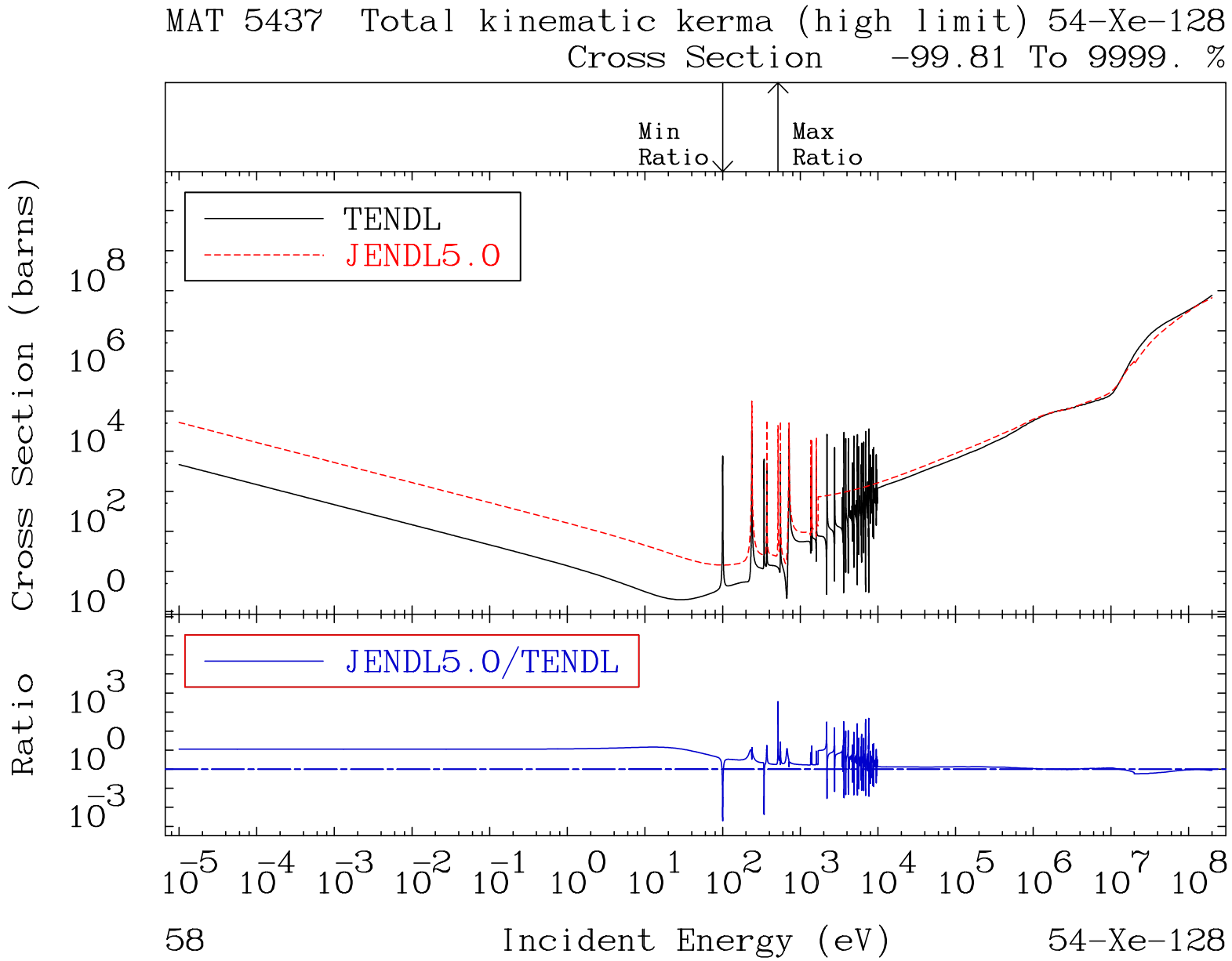

MAT 5437 Kerma non-elastic (all but mt2) 54-Xe-128
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Mega-barns)
100
80
60
40
20
0
0
-20
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
53
Incident Energy (eV)
54-Xe-128

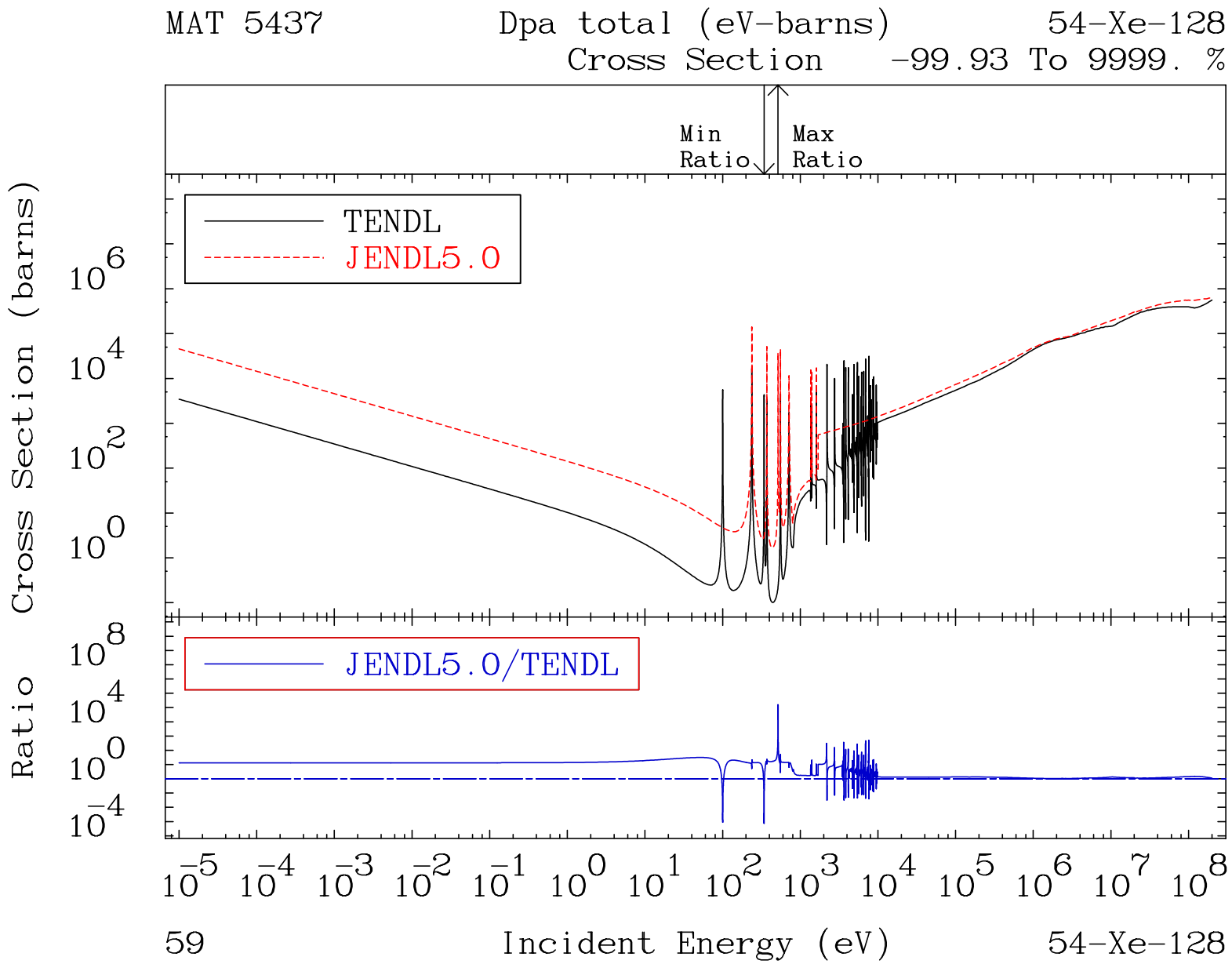

MAT 5437
Kerma inelastic (mt51-91)
54-Xe-128
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 446.40 keV
JENDL5.0 Threshold 446.40 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
54
54-Xe-128

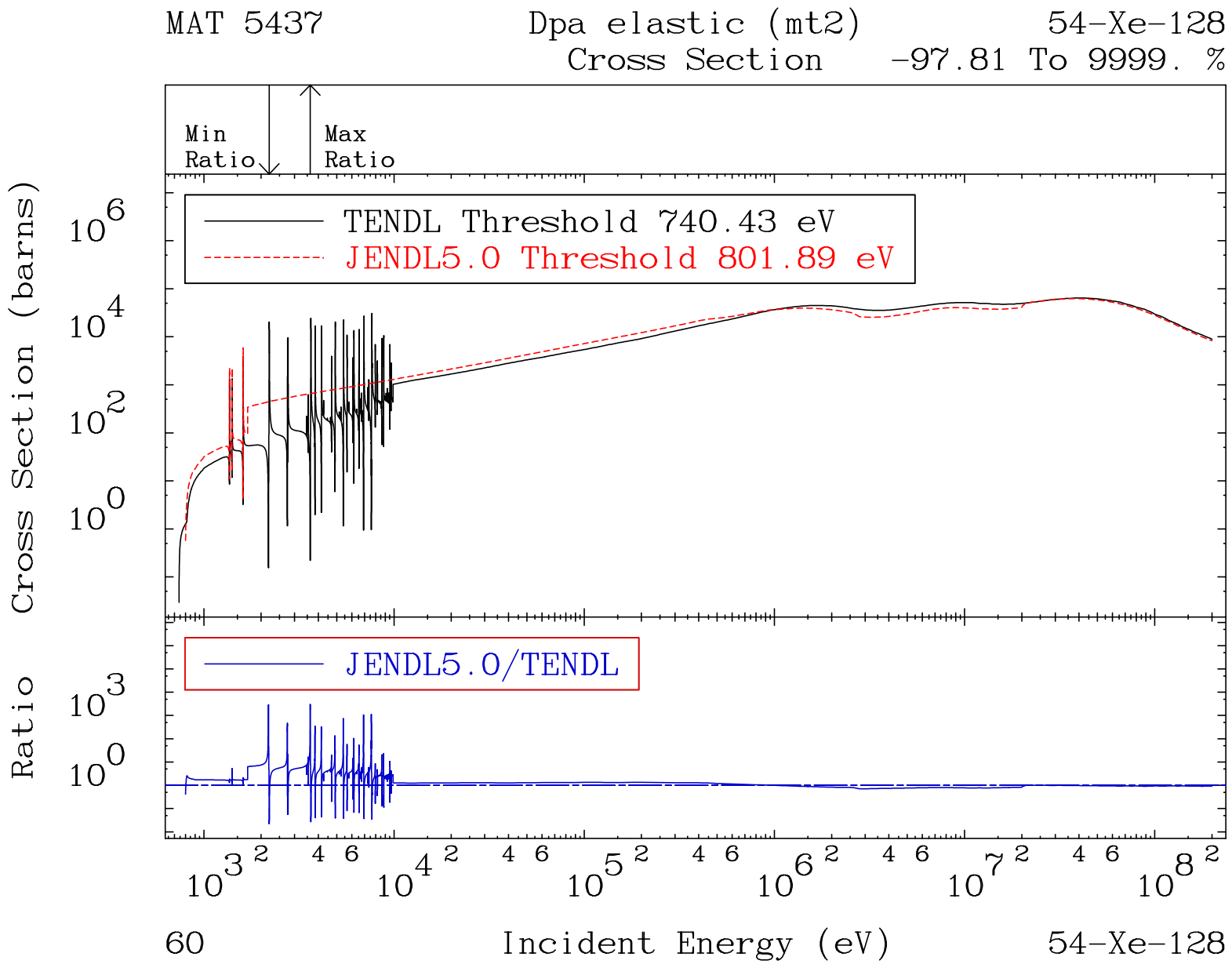

MAT 5437 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-128
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
40
20
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
55
Incident Energy (eV)
54-Xe-128

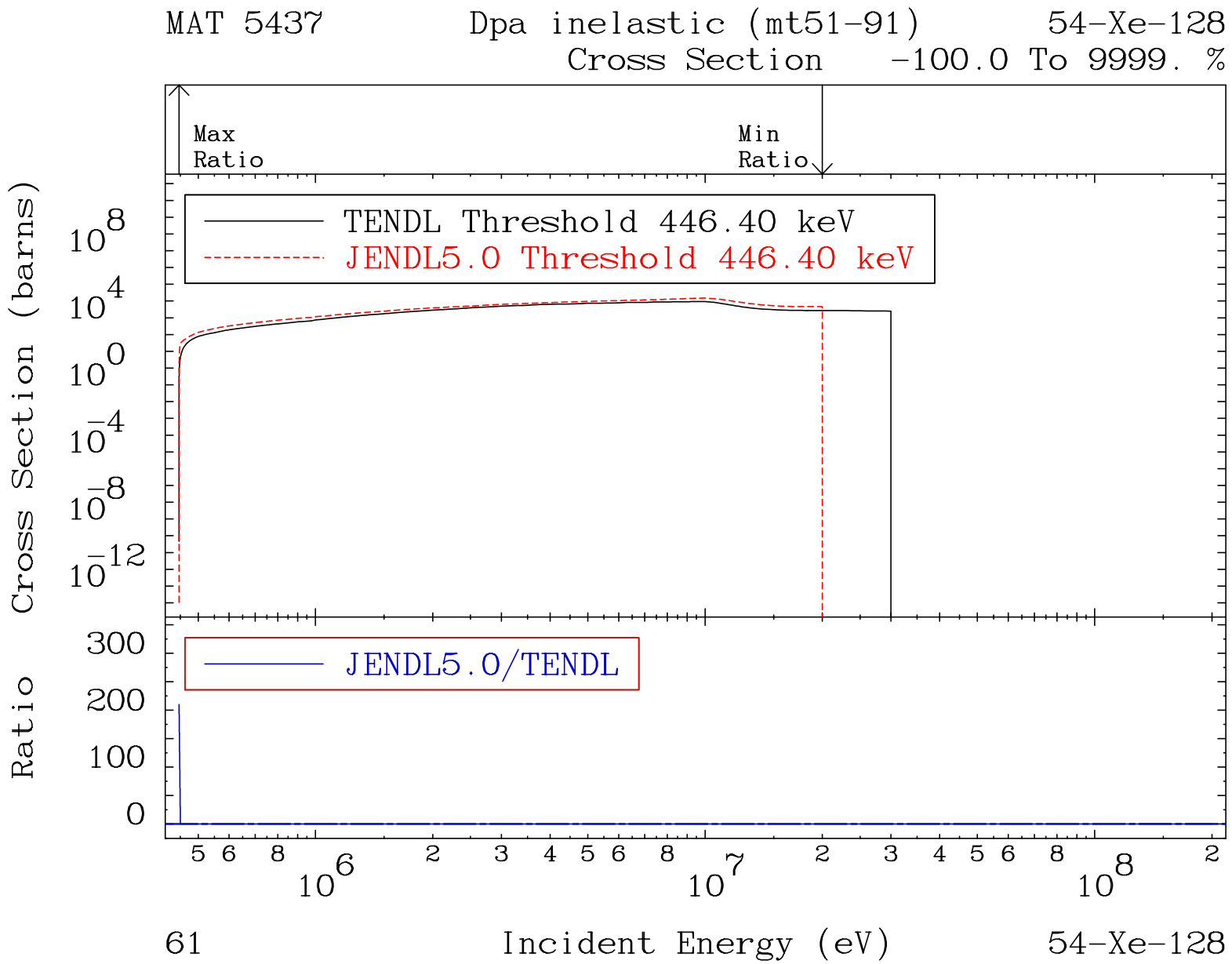

MAT 5437
Kerma capture (mt102)
54-Xe-128
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
54-Xe-128

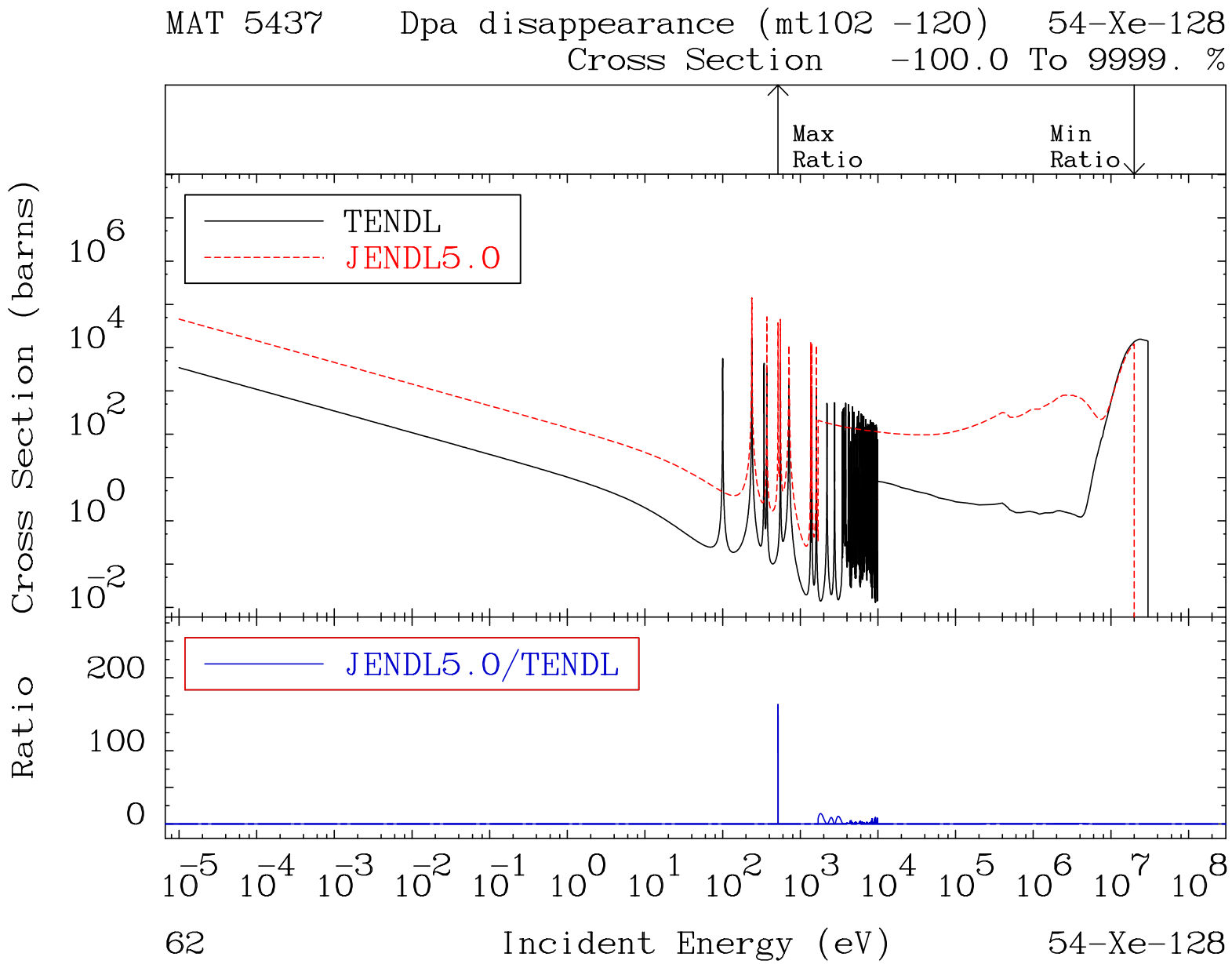

MAT 5437
Total photon (eV-barns)
54-Xe-128
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
54-Xe-128

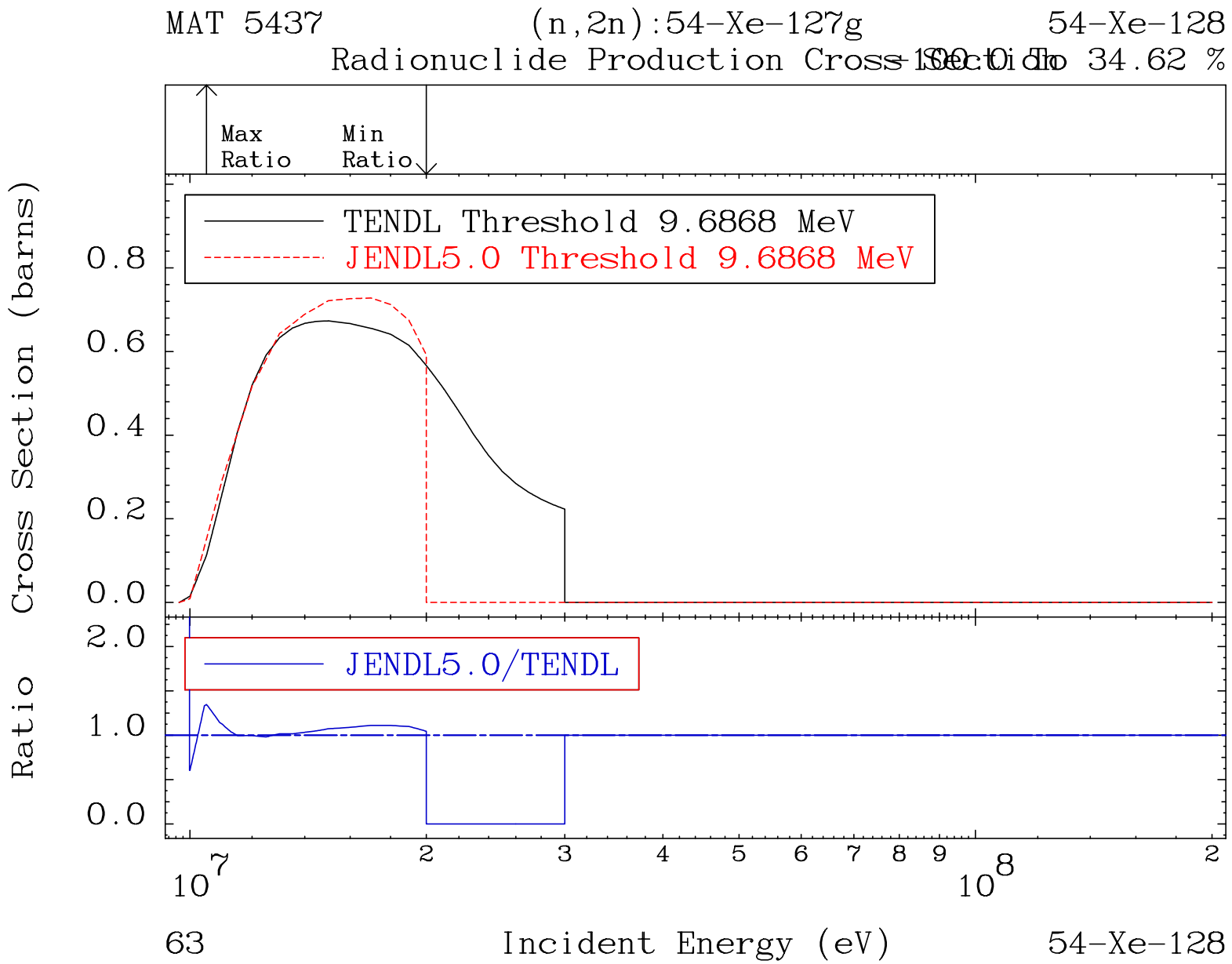

MAT 5437 Total kinematic kerma (high limit) 54-Xe-128
Cross Section -99.81 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
54-Xe-128

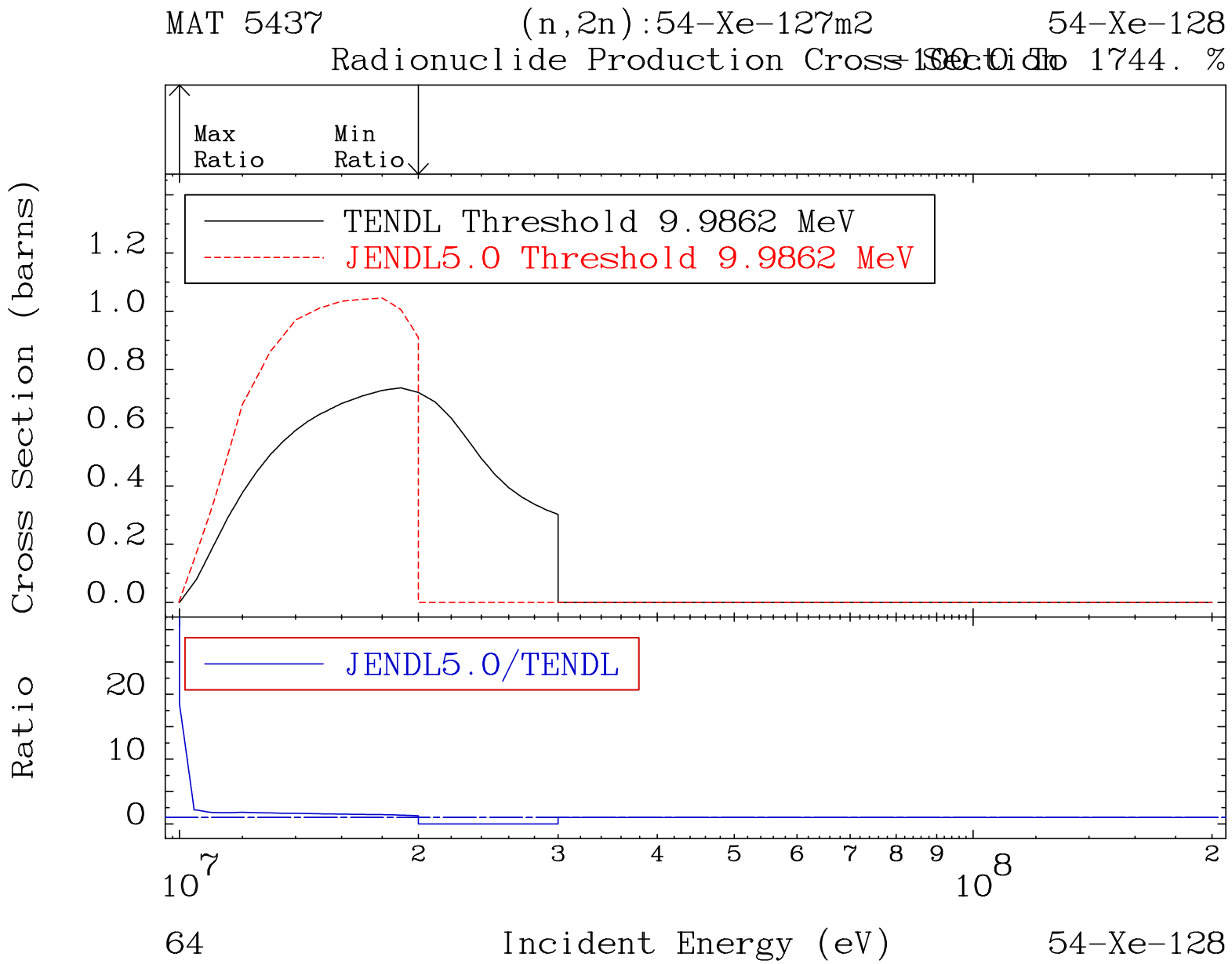

MAT 5437
Dpa total (eV-barns)
54-Xe-128
Cross Section -99.93 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
54-Xe-128


MAT 5437
Dpa elastic (mt2)
Cross Section
54-Xe-128
-97.81 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 740.43 eV
JENDL5.0 Threshold 801.89 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
54-Xe-128


MAT 5437
Dpa inelastic (mt51-91)
54-Xe-128
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 446.40 keV
JENDL5.0 Threshold 446.40 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
54-Xe-128


MAT 5437 Dpa disappearance (mt102 -120) 54-Xe-128
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
62
54-Xe-128


MAT 5437
(n,2n):54-Xe-127g
54-Xe-128
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 9.6868 MeV
JENDL5.0 Threshold 9.6868 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
54-Xe-128


MAT 5437
(n,2n):54-Xe-127m2
54-Xe-128
Radionuclide Production Cross Section To 1744. %
Max Ratio
Min Ratio
TENDL Threshold 9.9862 MeV
JENDL5.0 Threshold 9.9862 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
20
10
0
10^7
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
54-Xe-128