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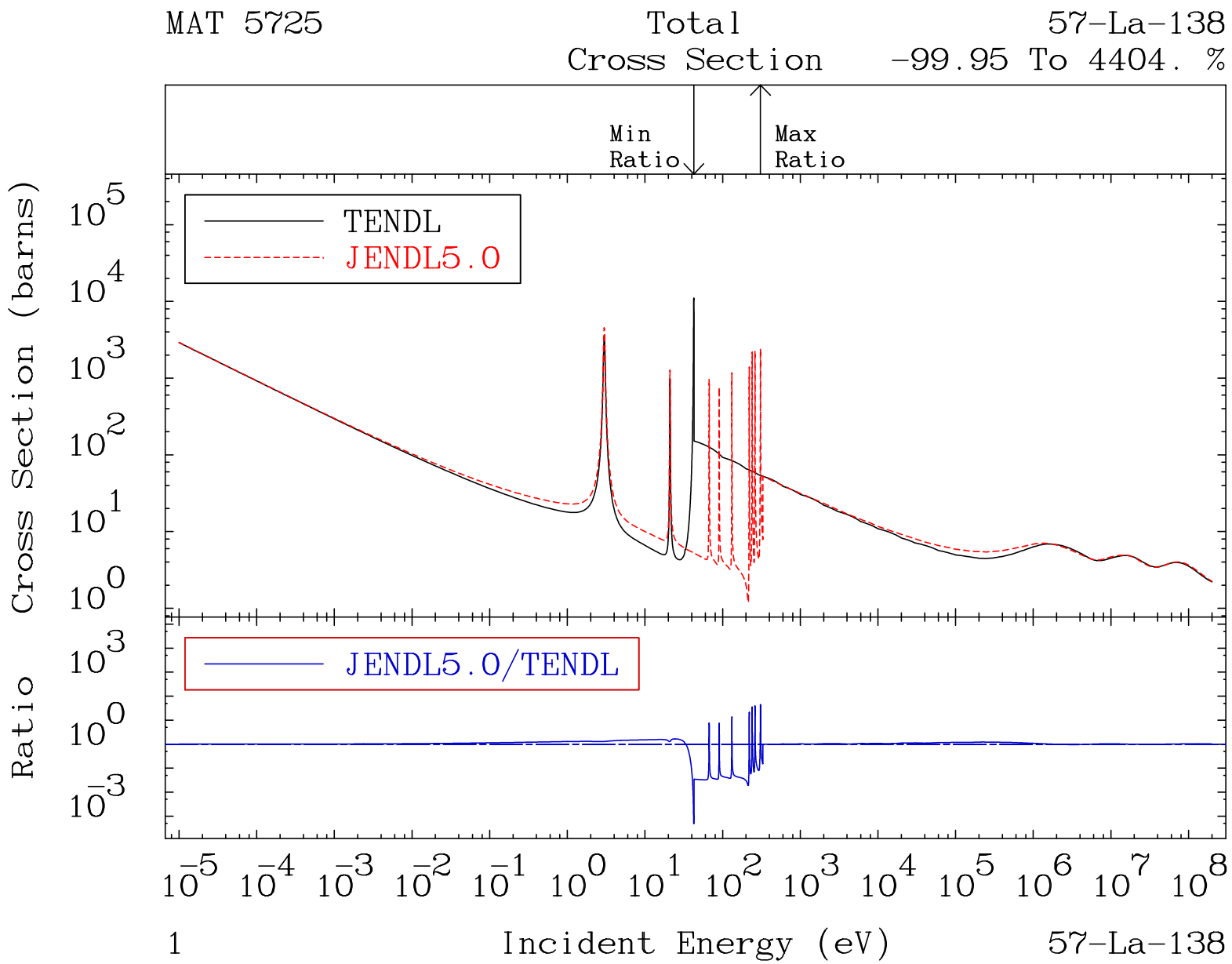
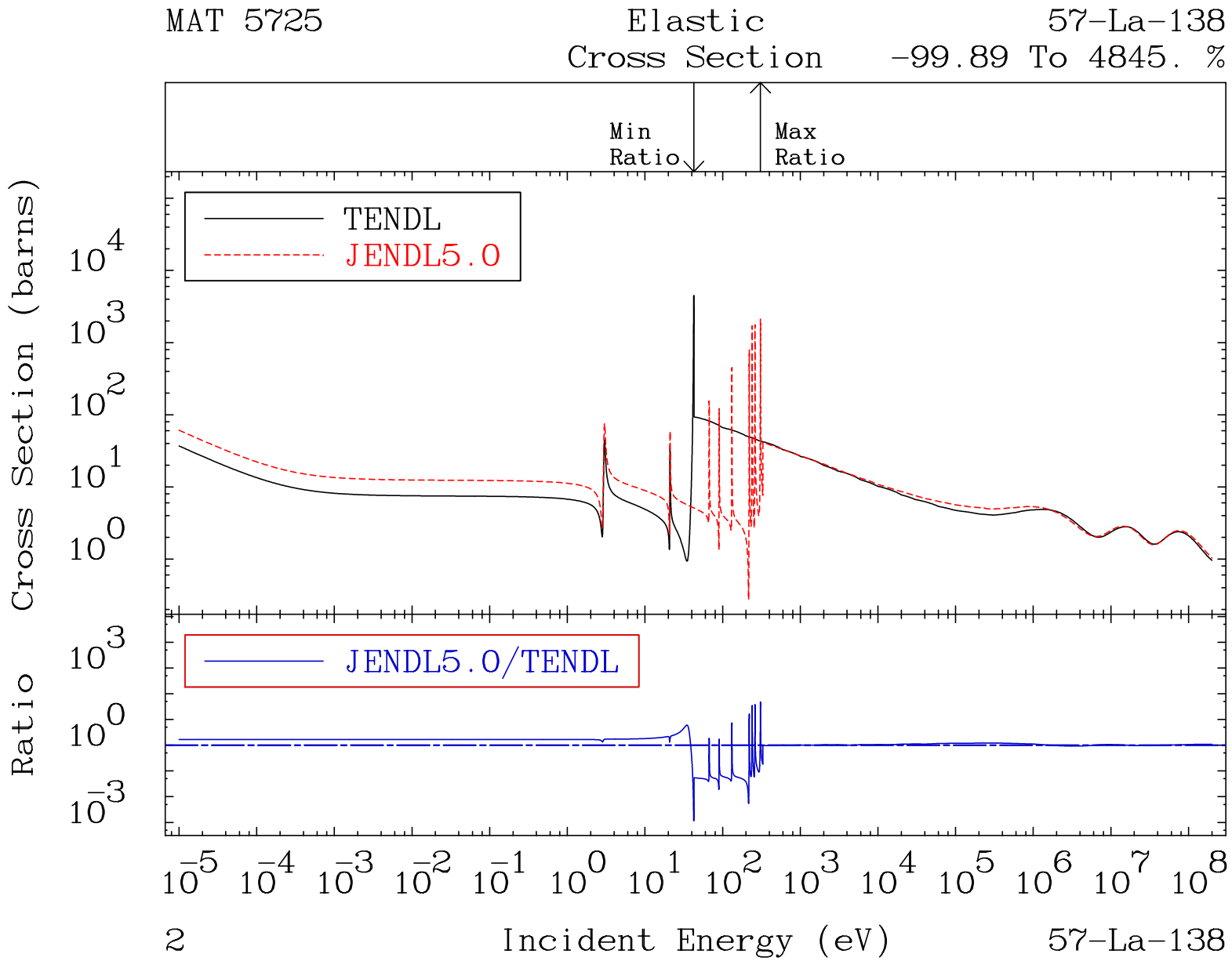
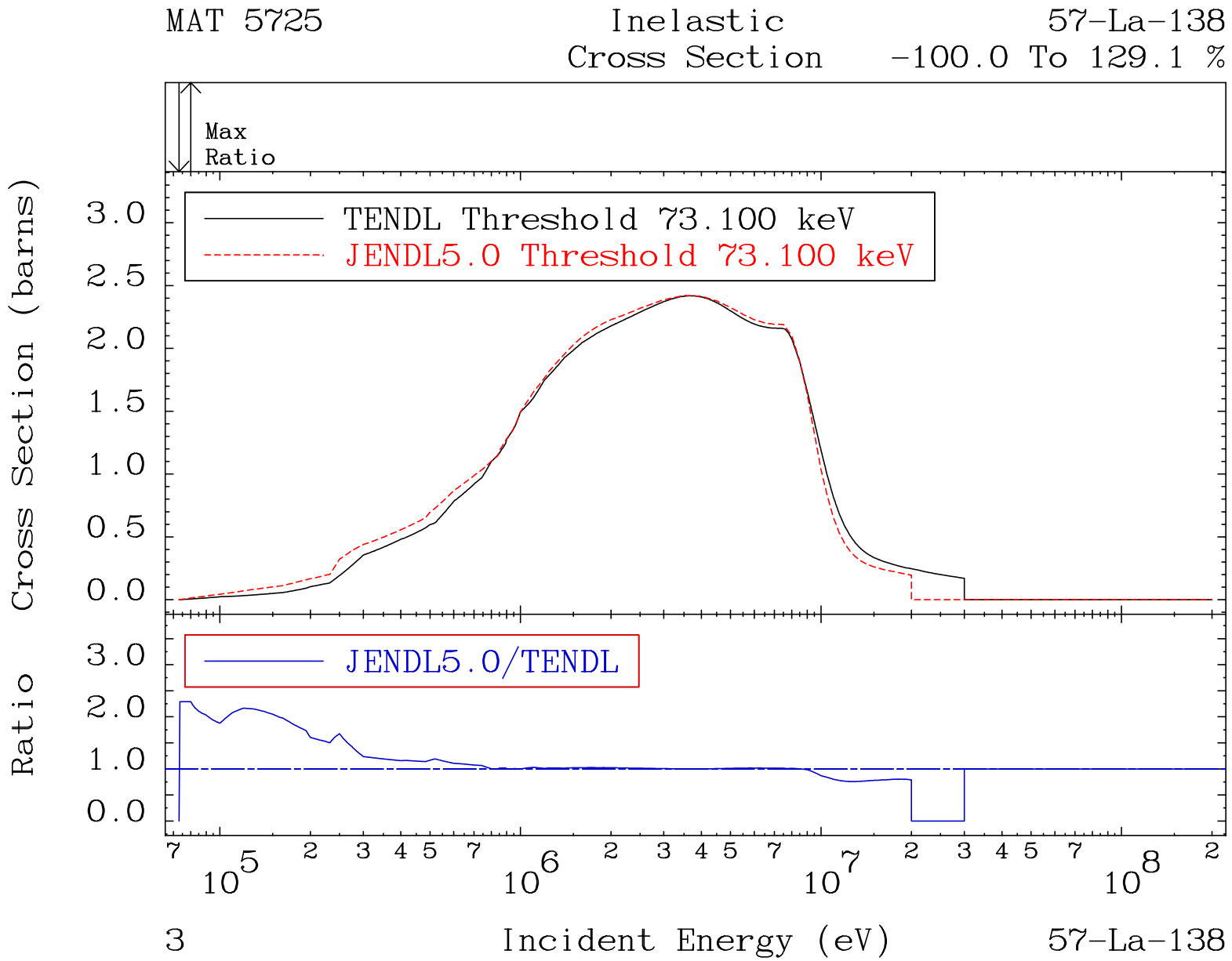
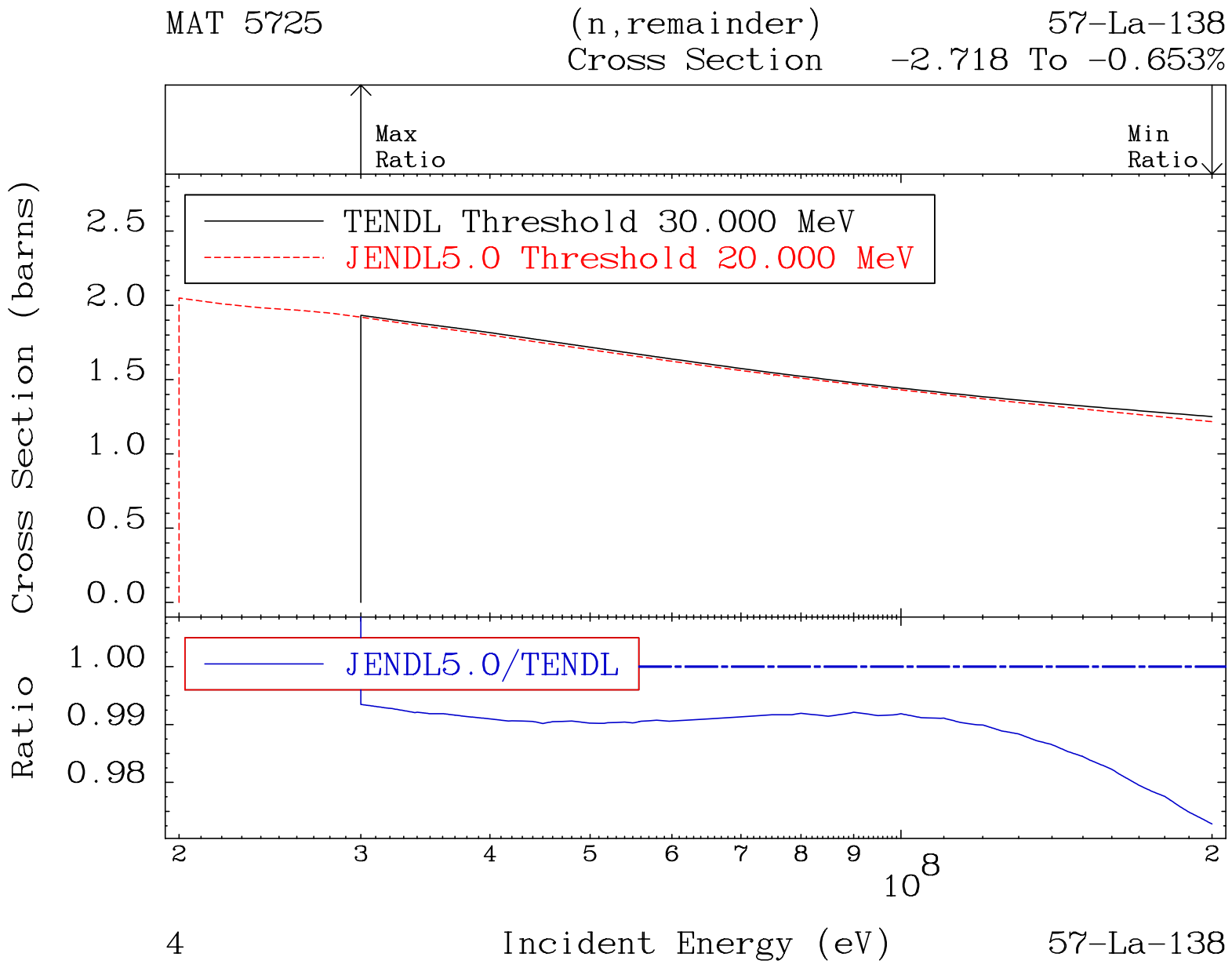
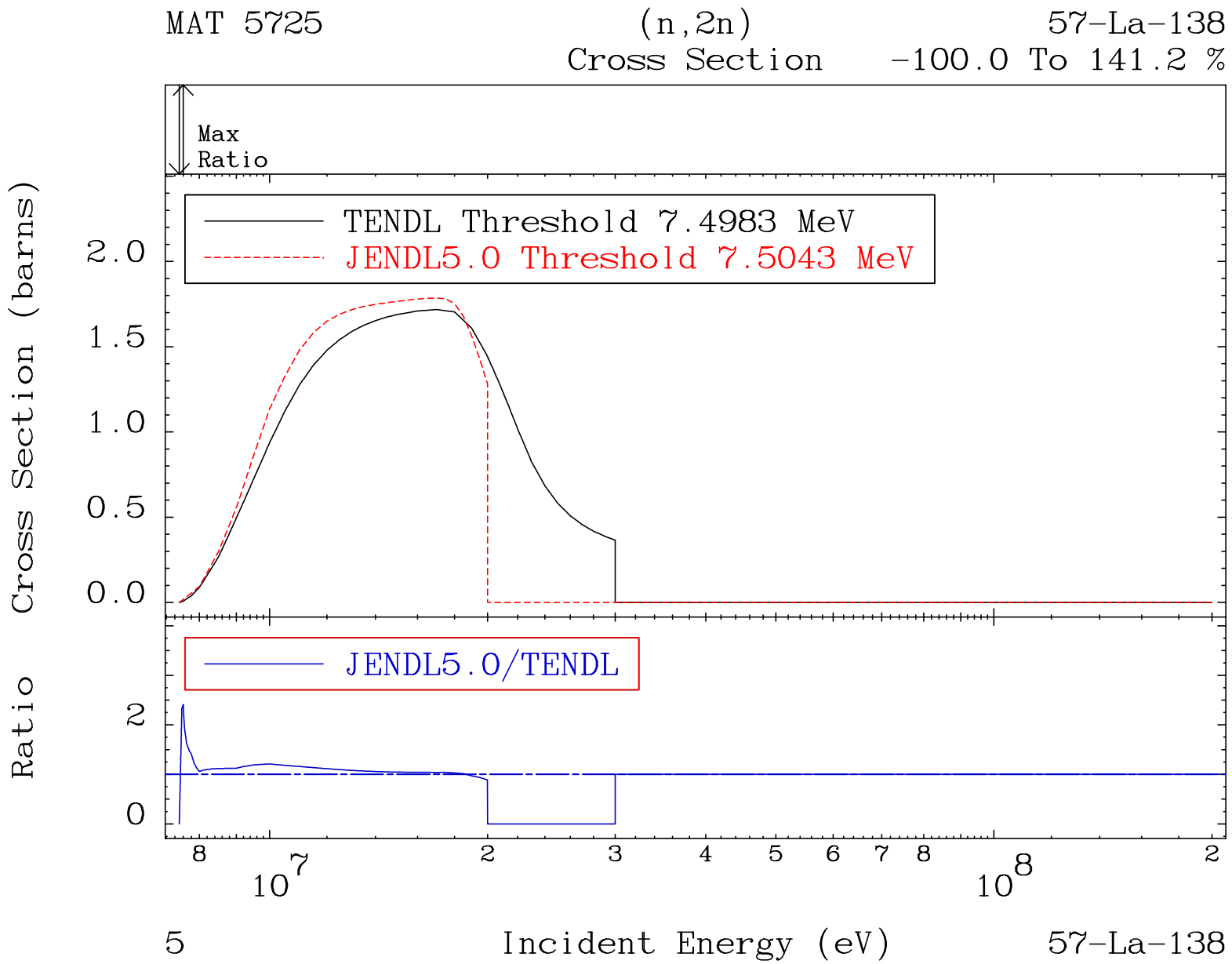
Press Mouse Button to Start

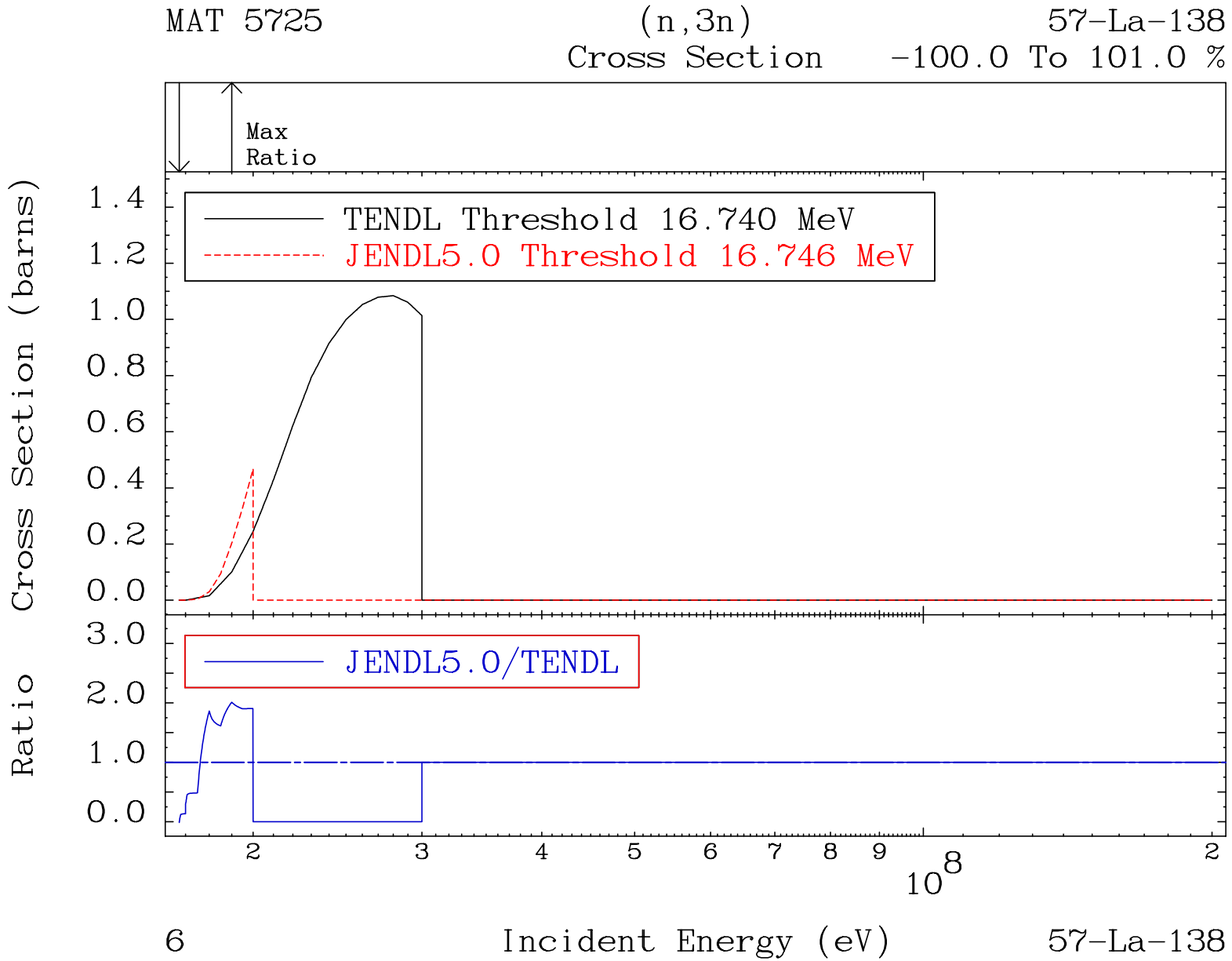

MAT 5725
Total
Cross Section
57-La-138
-99.95 To 4404. %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
57-La-138

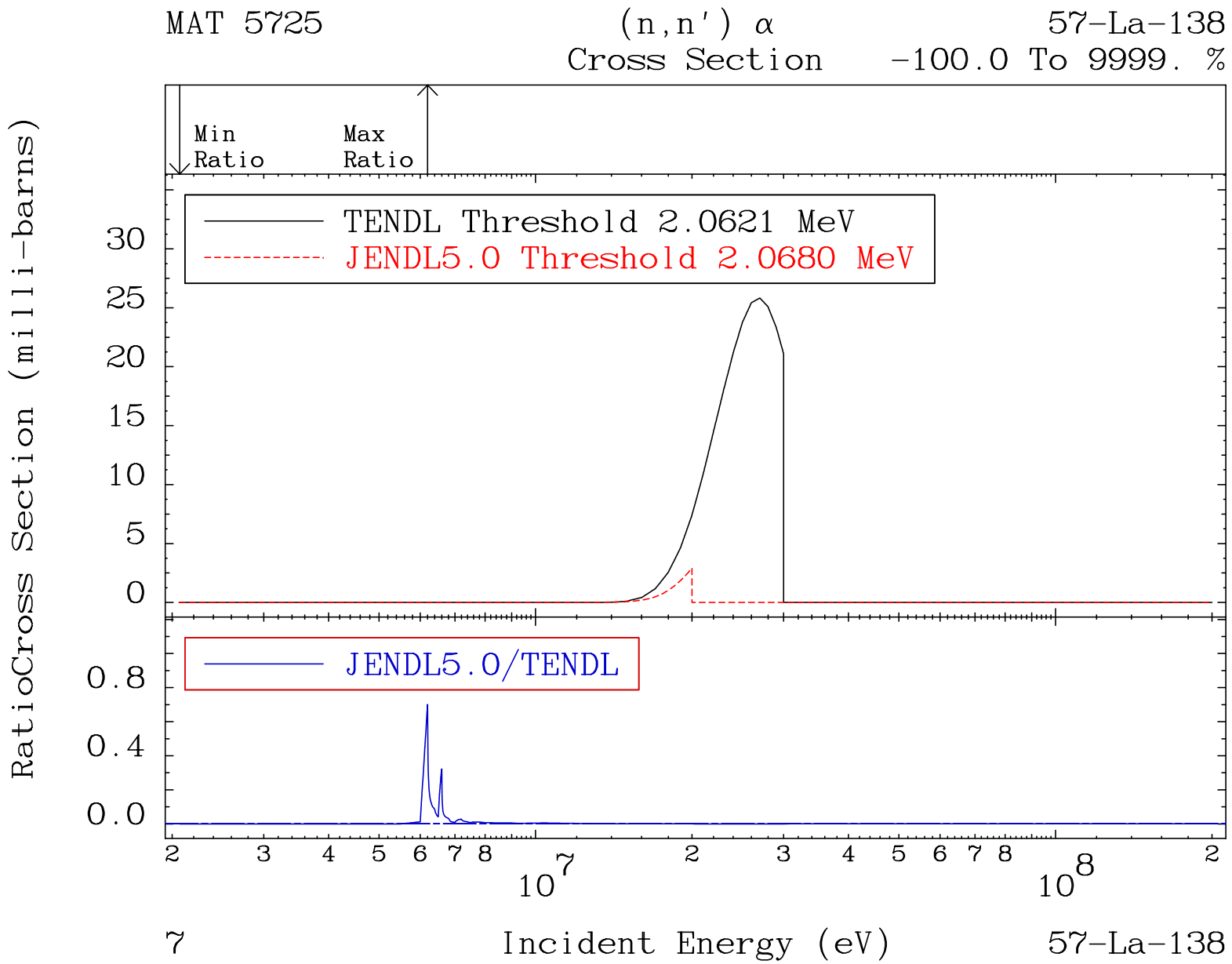

MAT 5725
Elastic
Cross Section
57-La-138
-99.89 To 4845. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
57-La-138

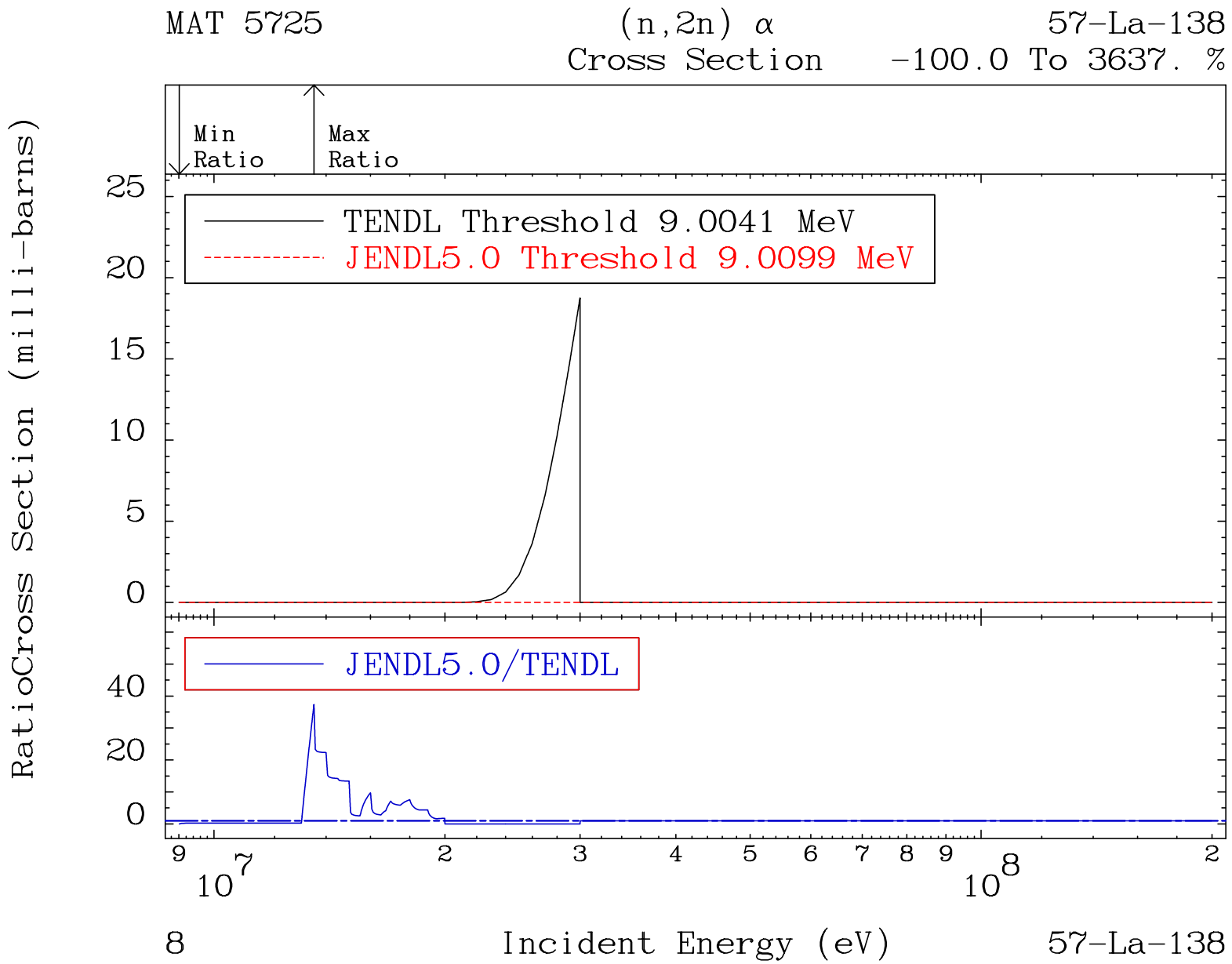

MAT 5725
Inelastic
Cross Section
57-La-138
-100.0 To 129.1 %
Max
Ratio
TENDL Threshold 73.100 keV
JENDL5.0 Threshold 73.100 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
7
2
3
4
5
7
10^5
10^6
10^7
10^8
Incident Energy (eV)
3
57-La-138

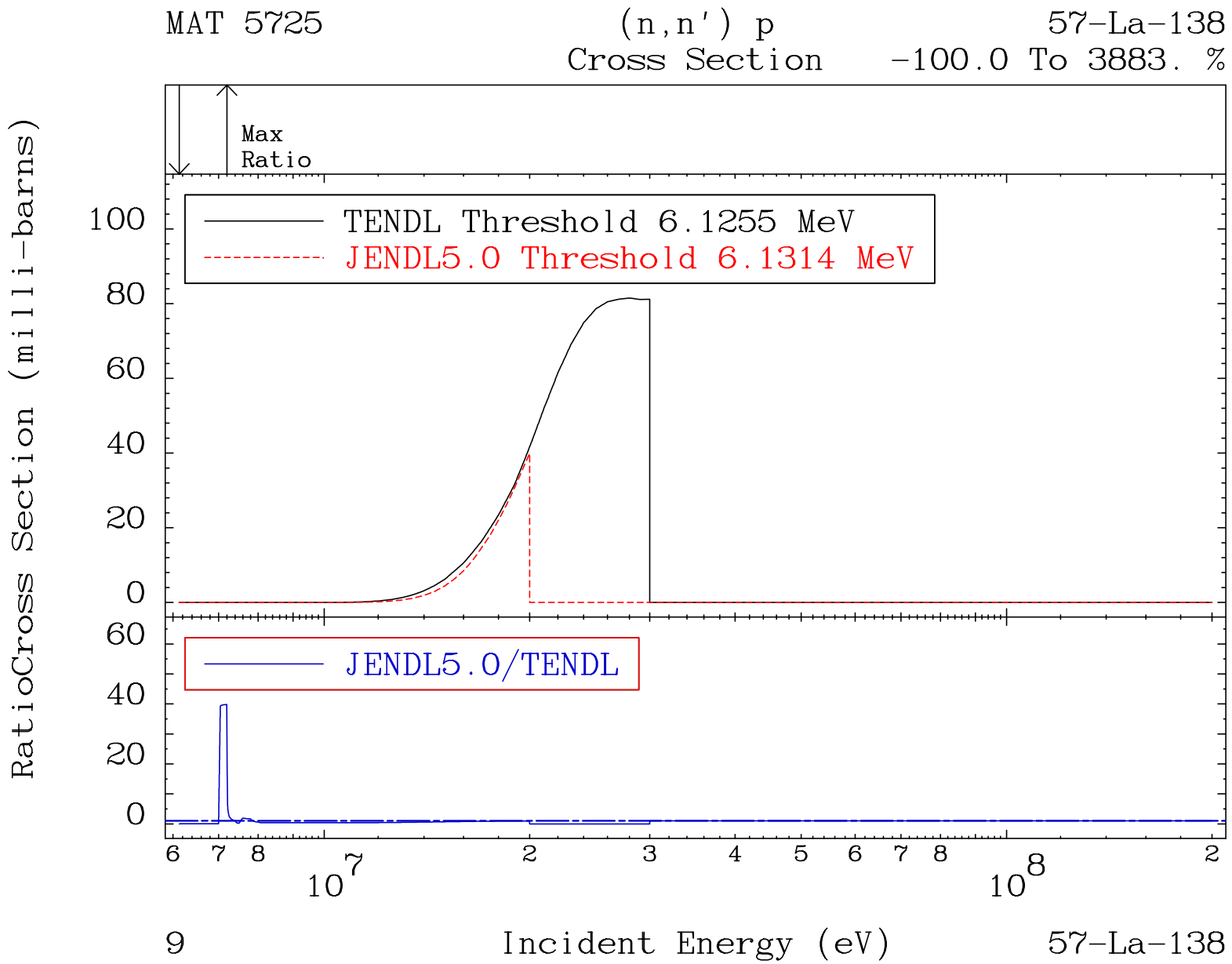

MAT 5725
(n,remainder)
Cross Section
57-La-138
-2.718 To -0.653%
Max
Ratio
Min
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
1.00
0.99
0.98
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
57-La-138

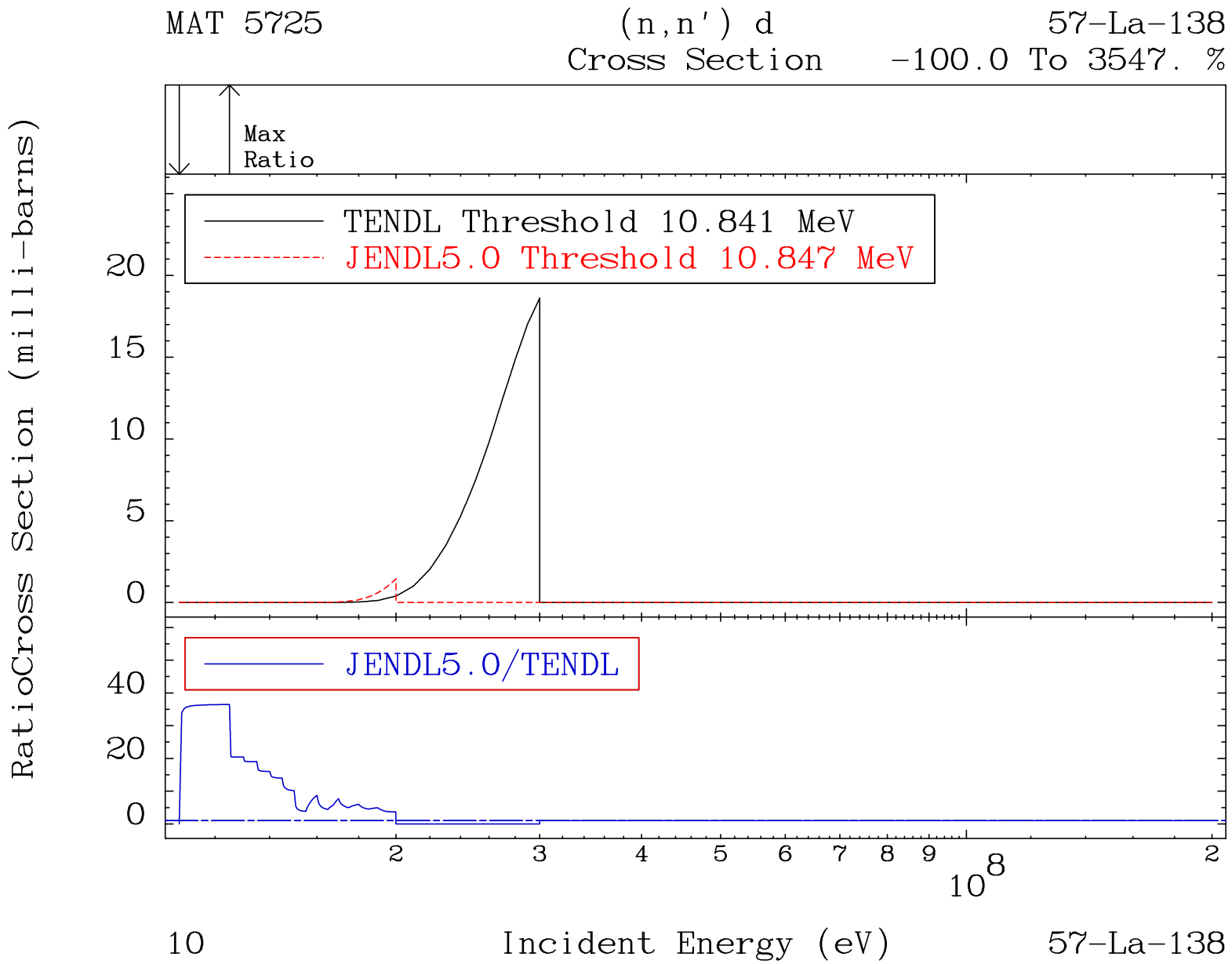

MAT 5725
(n,2n)
Cross Section
57-La-138
-100.0 To 141.2 %
Max
Ratio
TENDL Threshold 7.4983 MeV
JENDL5.0 Threshold 7.5043 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
2
0
8
10^7
2
3
4
5
6
7
8
10^8
2
5
Incident Energy (eV)
57-La-138

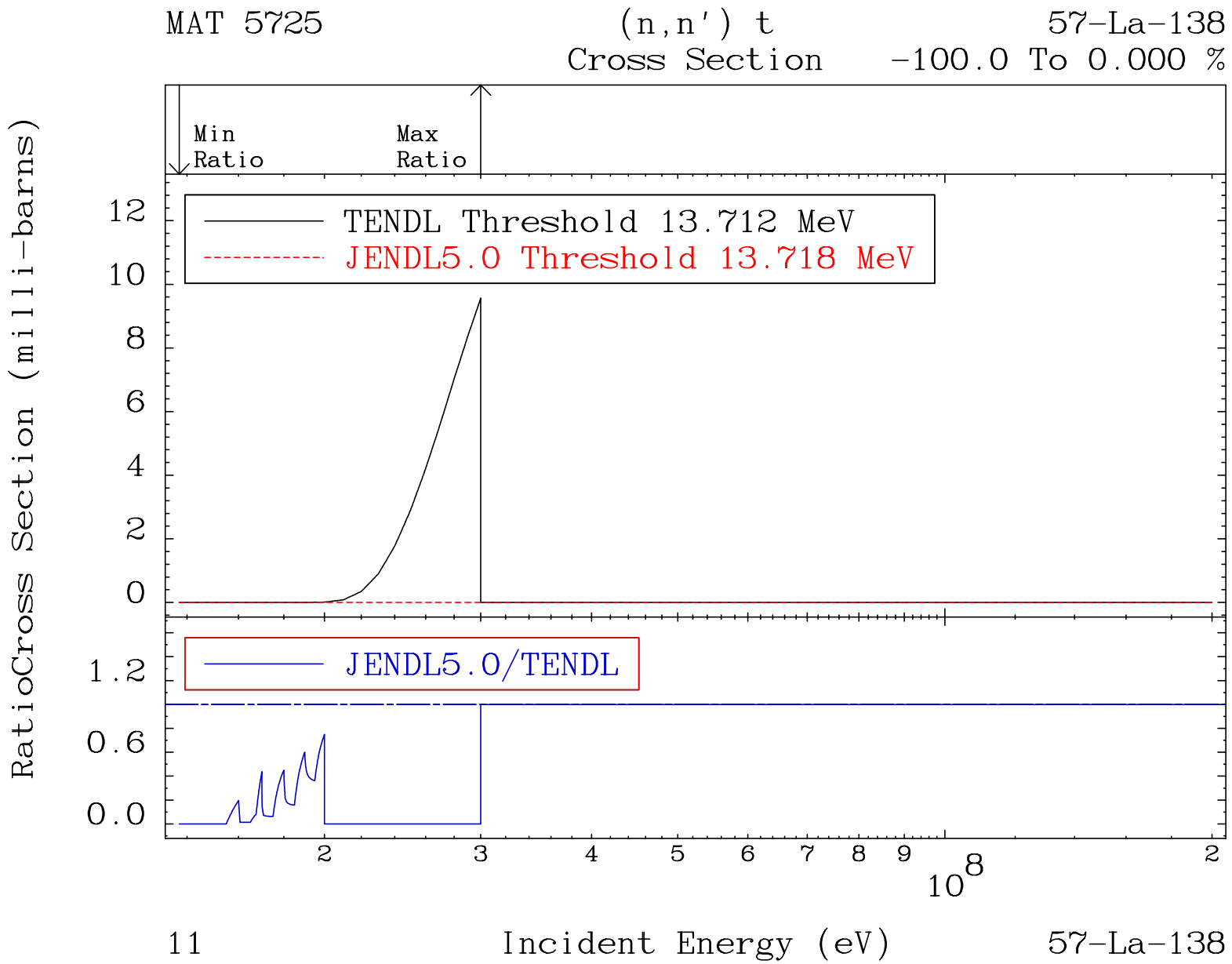

MAT 5725
(n,3n)
Cross Section
57-La-138
-100.0 To 101.0 %
Max
Ratio
TENDL Threshold 16.740 MeV
JENDL5.0 Threshold 16.746 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
57-La-138

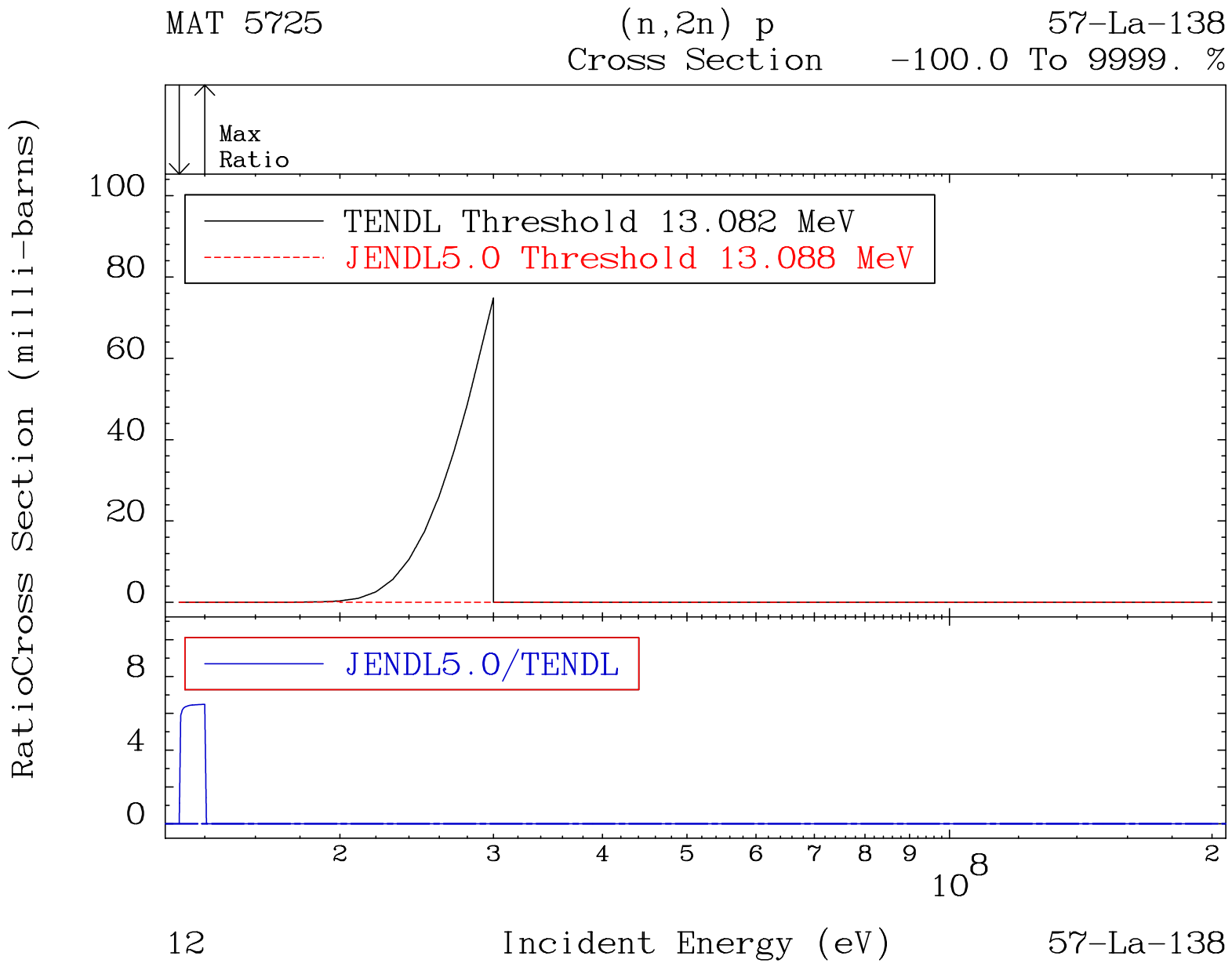

MAT 5725
(n,n') α
Cross Section
57-La-138
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.0621 MeV
JENDL5.0 Threshold 2.0680 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
57-La-138

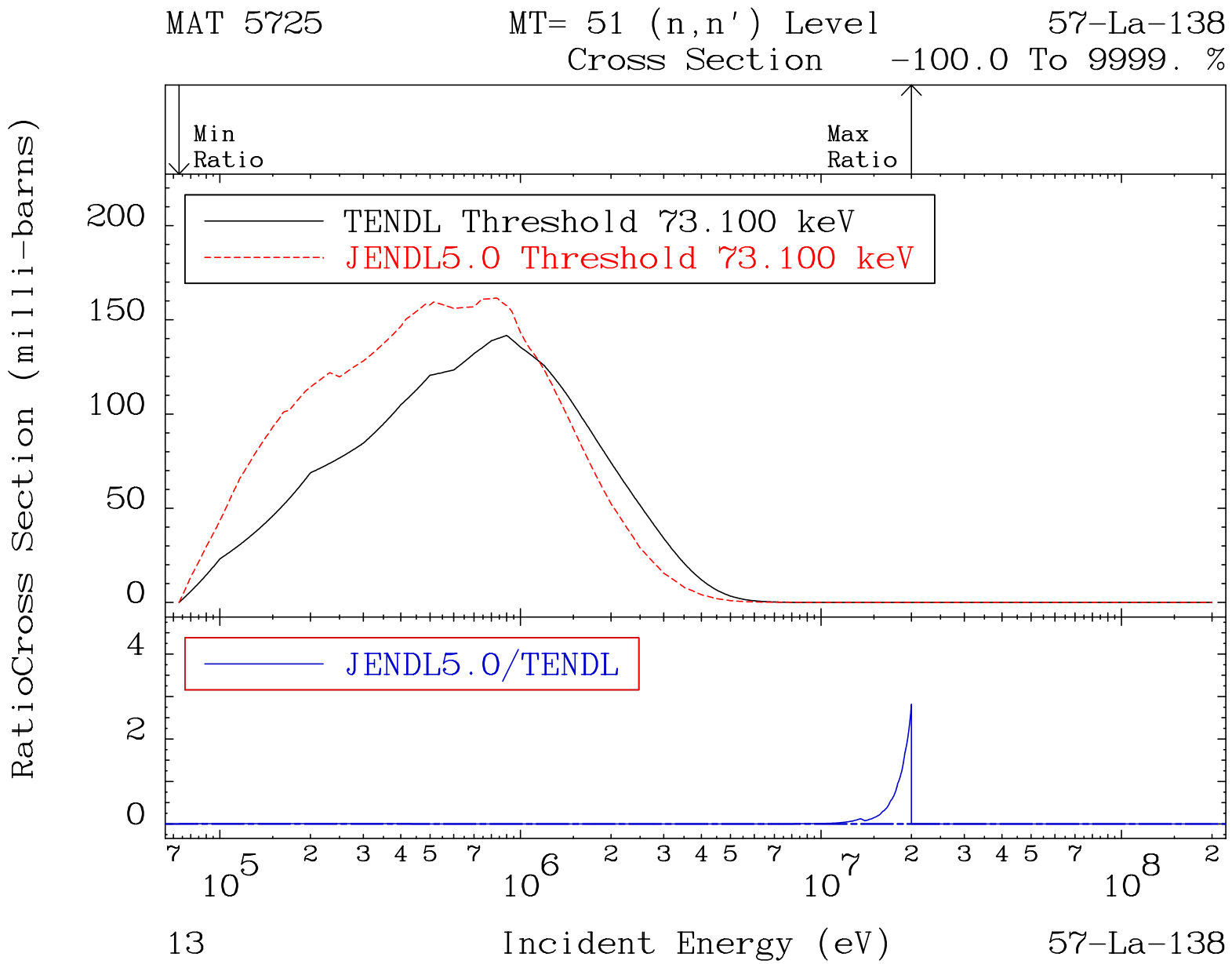

MAT 5725
(n,2n) α
57-La-138
Cross Section
-100.0 To 3637. %
Min Ratio
Max Ratio
TENDL Threshold 9.0041 MeV
JENDL5.0 Threshold 9.0099 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
57-La-138
8

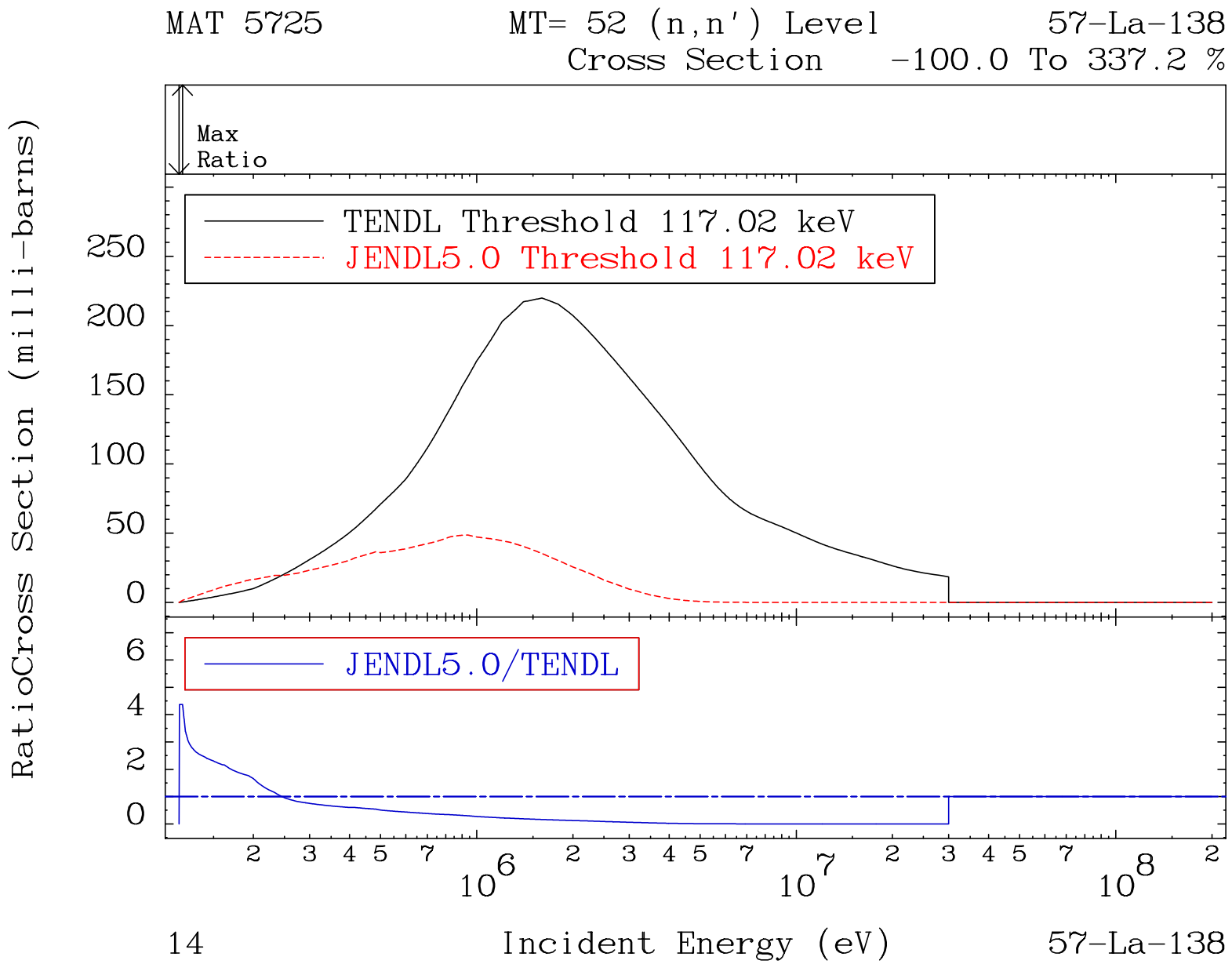

MAT 5725
(n,n') p
Cross Section
57-La-138
-100.0 To 3883. %
Max
Ratio
TENDL Threshold 6.1255 MeV
JENDL5.0 Threshold 6.1314 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
60
40
20
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
57-La-138

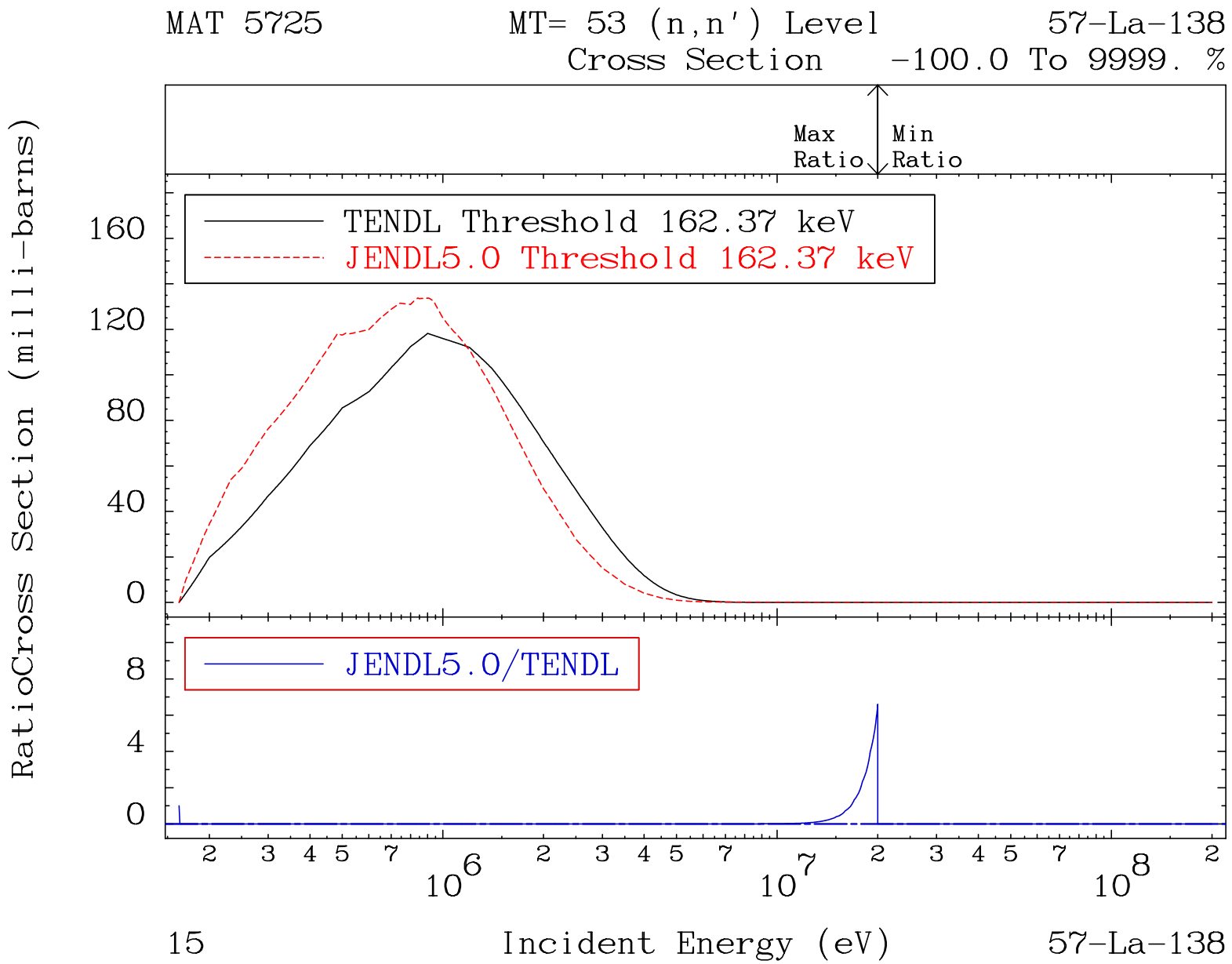

MAT 5725
(n,n') d
Cross Section
57-La-138
-100.0 To 3547. %
Max
Ratio
TENDL Threshold 10.841 MeV
JENDL5.0 Threshold 10.847 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
40
20
0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
57-La-138

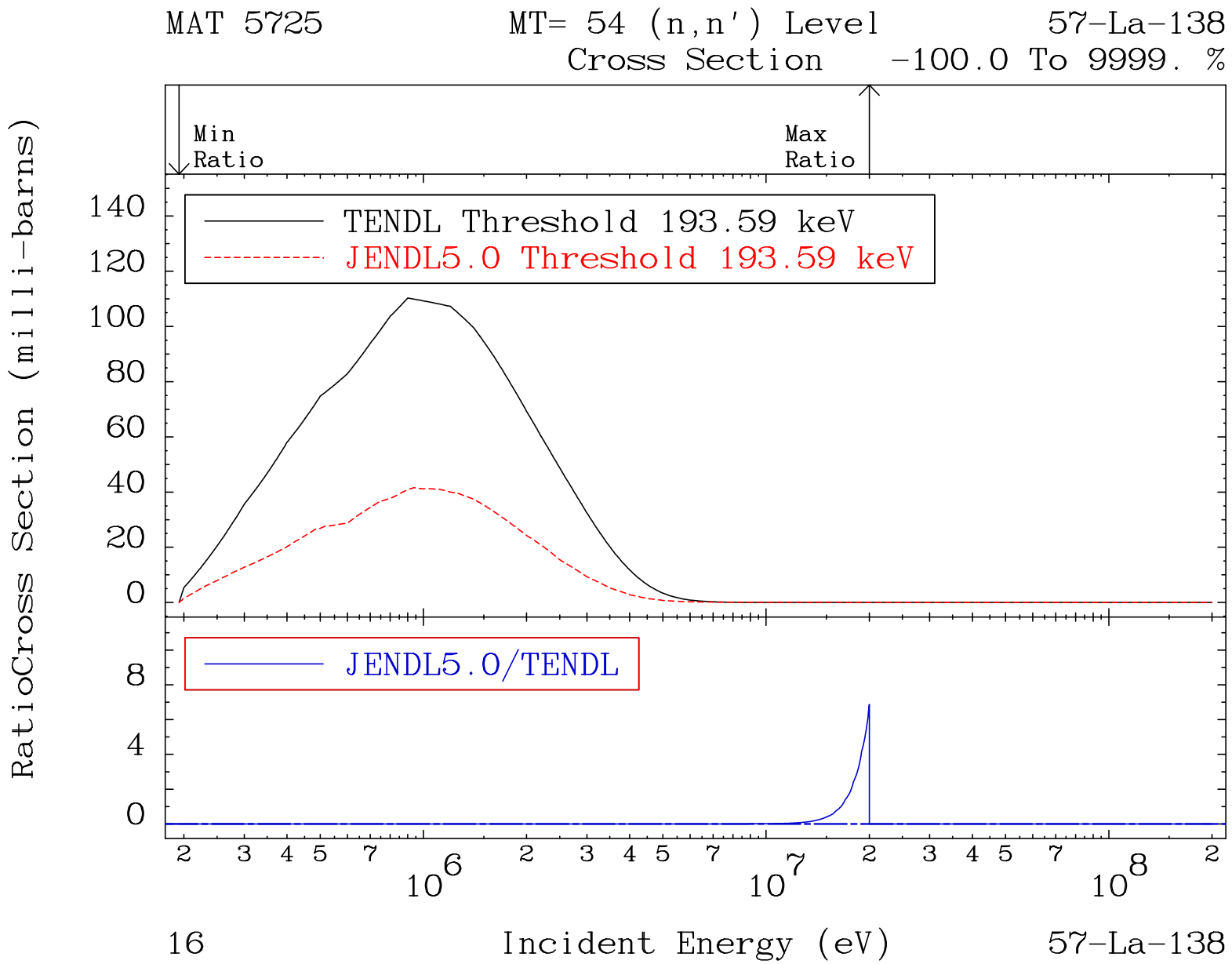

MAT 5725
(n,n') t
Cross Section
57-La-138
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 13.712 MeV
JENDL5.0 Threshold 13.718 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
57-La-138

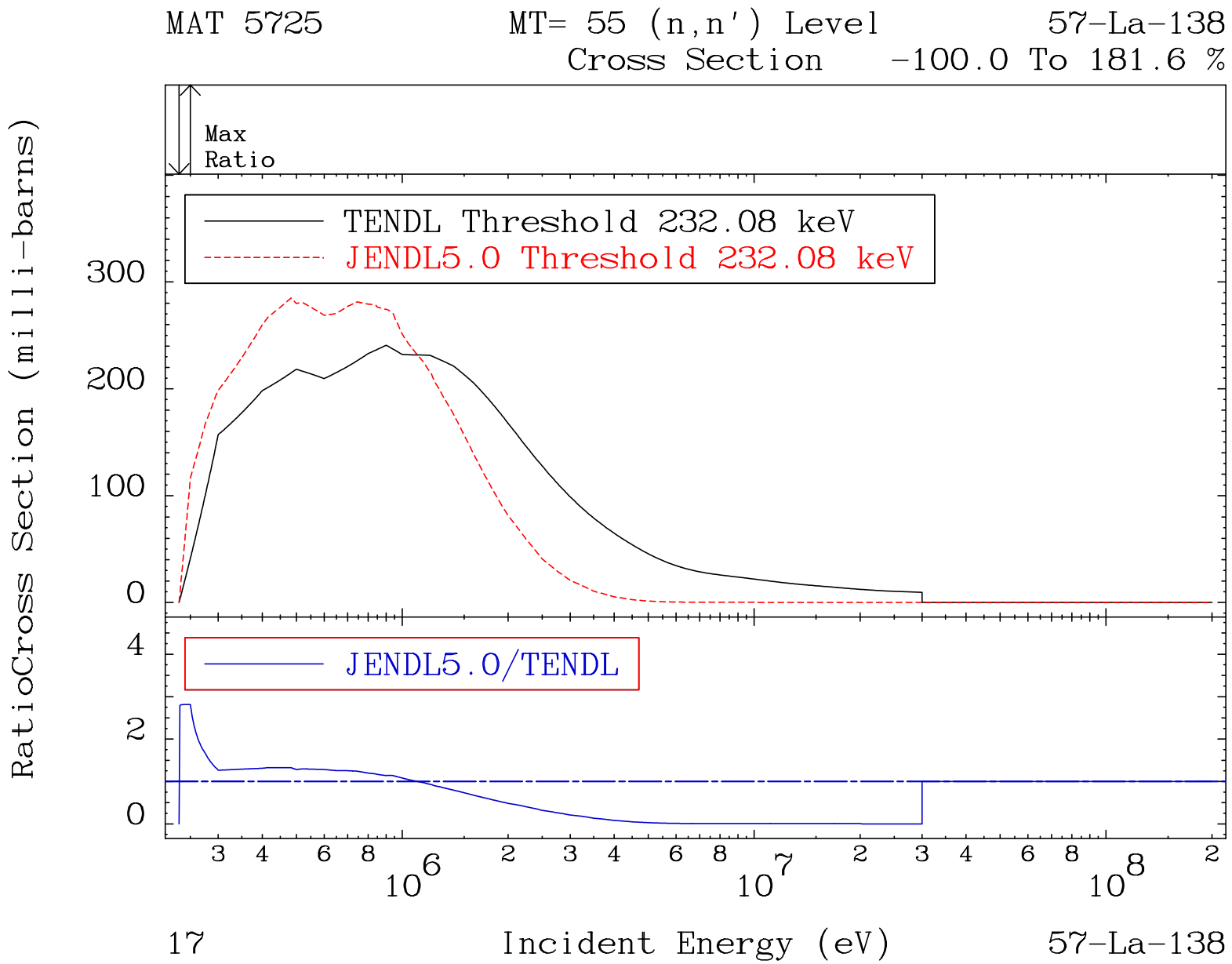

MAT 5725
(n,2n) p
Cross Section
57-La-138
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 13.082 MeV
JENDL5.0 Threshold 13.088 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
57-La-138

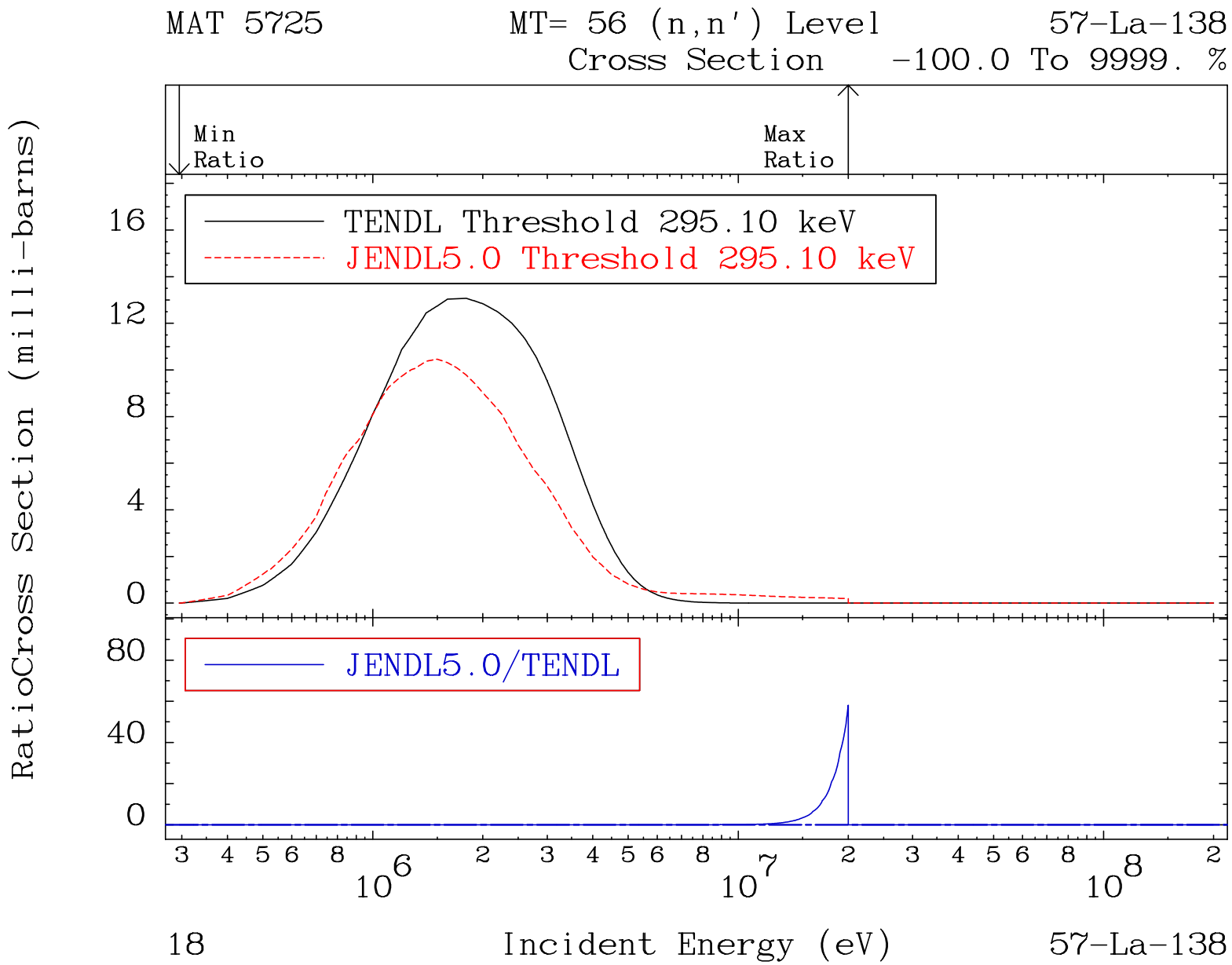

MAT 5725
MT= 51 (n,n') Level
57-La-138
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 73.100 keV
JENDL5.0 Threshold 73.100 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
2
0
7
2
3
4
5
7
10^5
10^6
10^7
10^8
13
Incident Energy (eV)
57-La-138

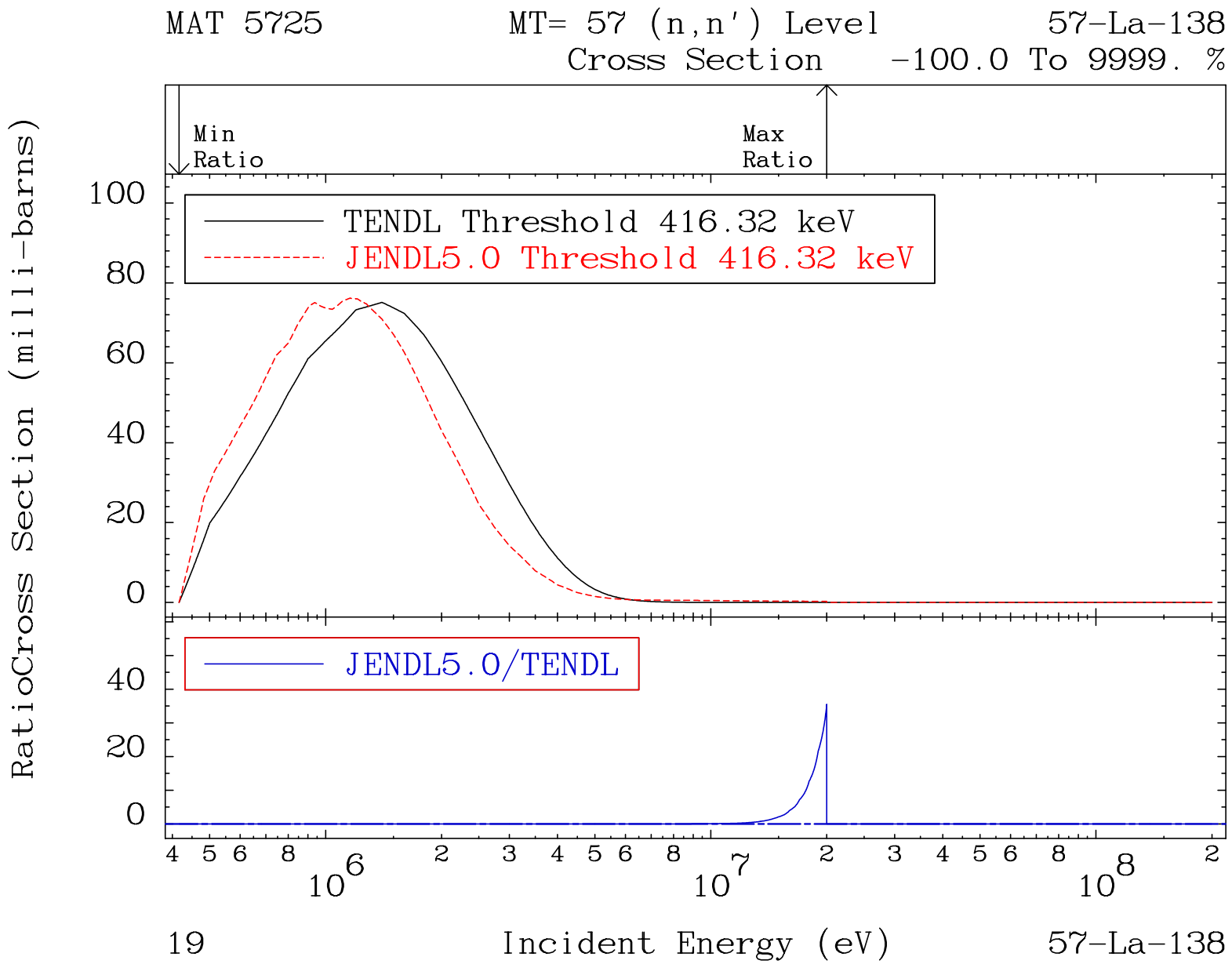

MAT 5725
MT= 52 (n,n') Level
57-La-138
Cross Section
-100.0 To 337.2 %
Max
Ratio
TENDL Threshold 117.02 keV
JENDL5.0 Threshold 117.02 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
6
4
2
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
14
Incident Energy (eV)
57-La-138

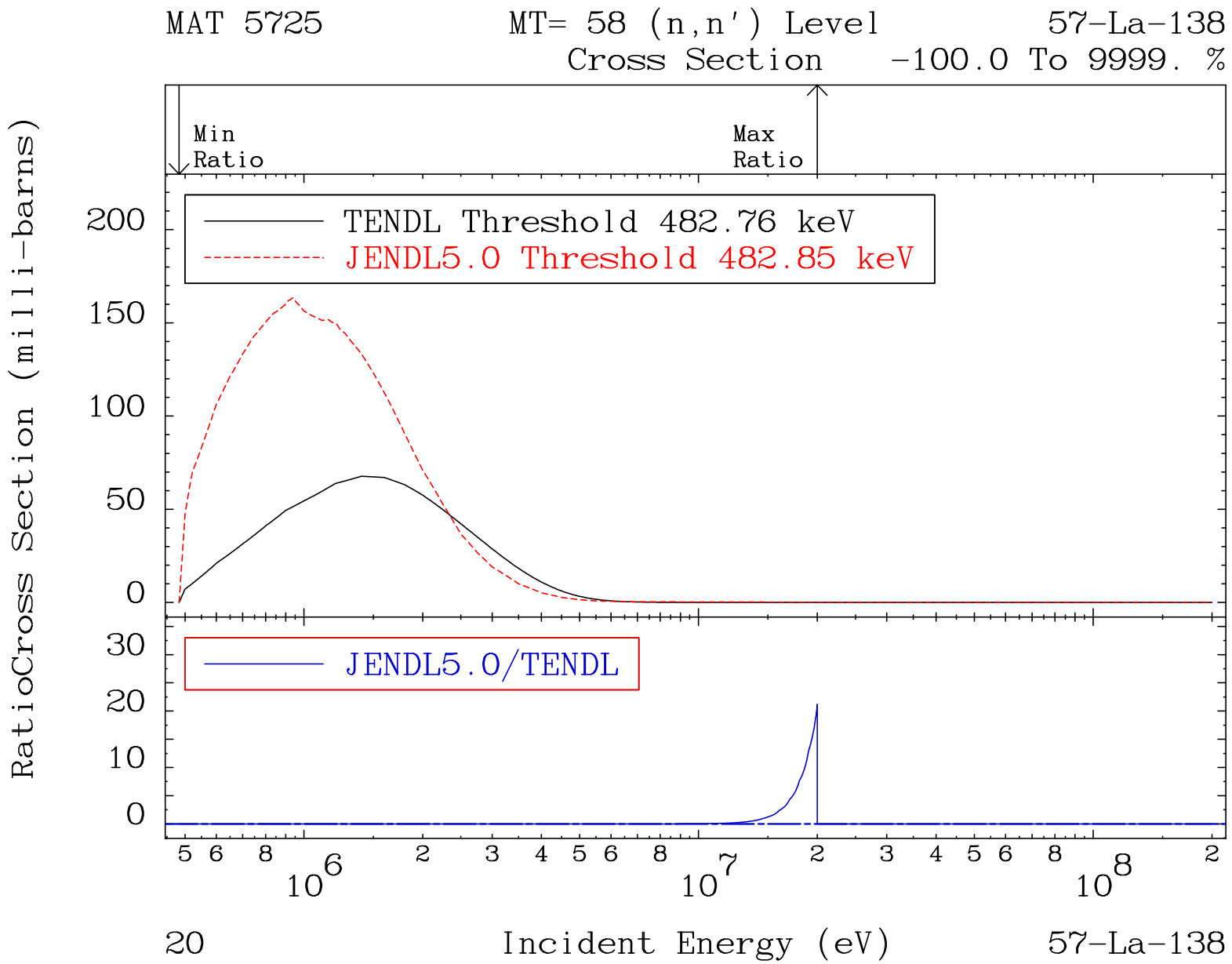

MAT 5725
MT= 53 (n,n') Level
57-La-138
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 162.37 keV
JENDL5.0 Threshold 162.37 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
8
4
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
15
Incident Energy (eV)
57-La-138

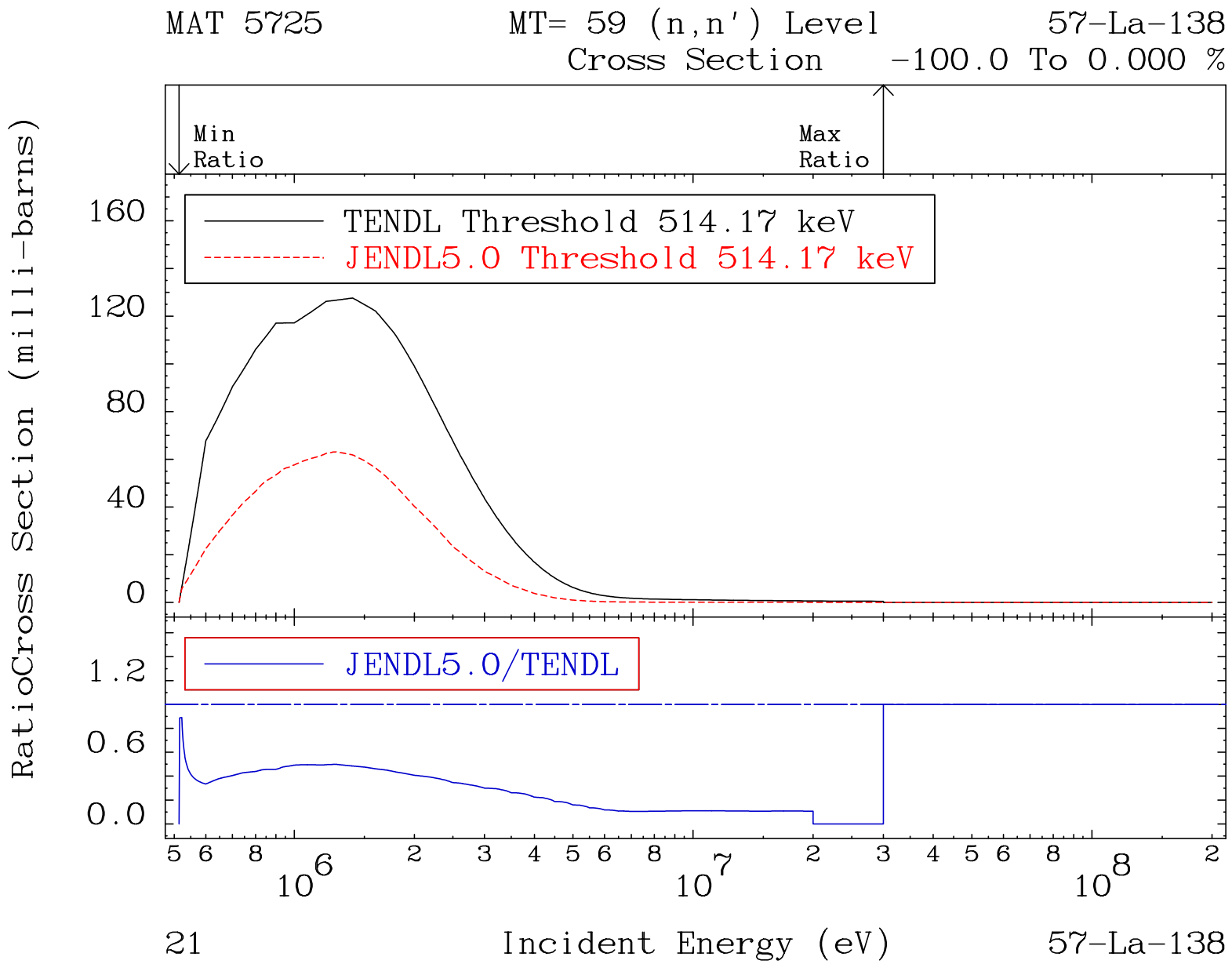

MAT 5725
MT= 54 (n,n') Level
57-La-138
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 193.59 keV
JENDL5.0 Threshold 193.59 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
8
4
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
16
Incident Energy (eV)
57-La-138

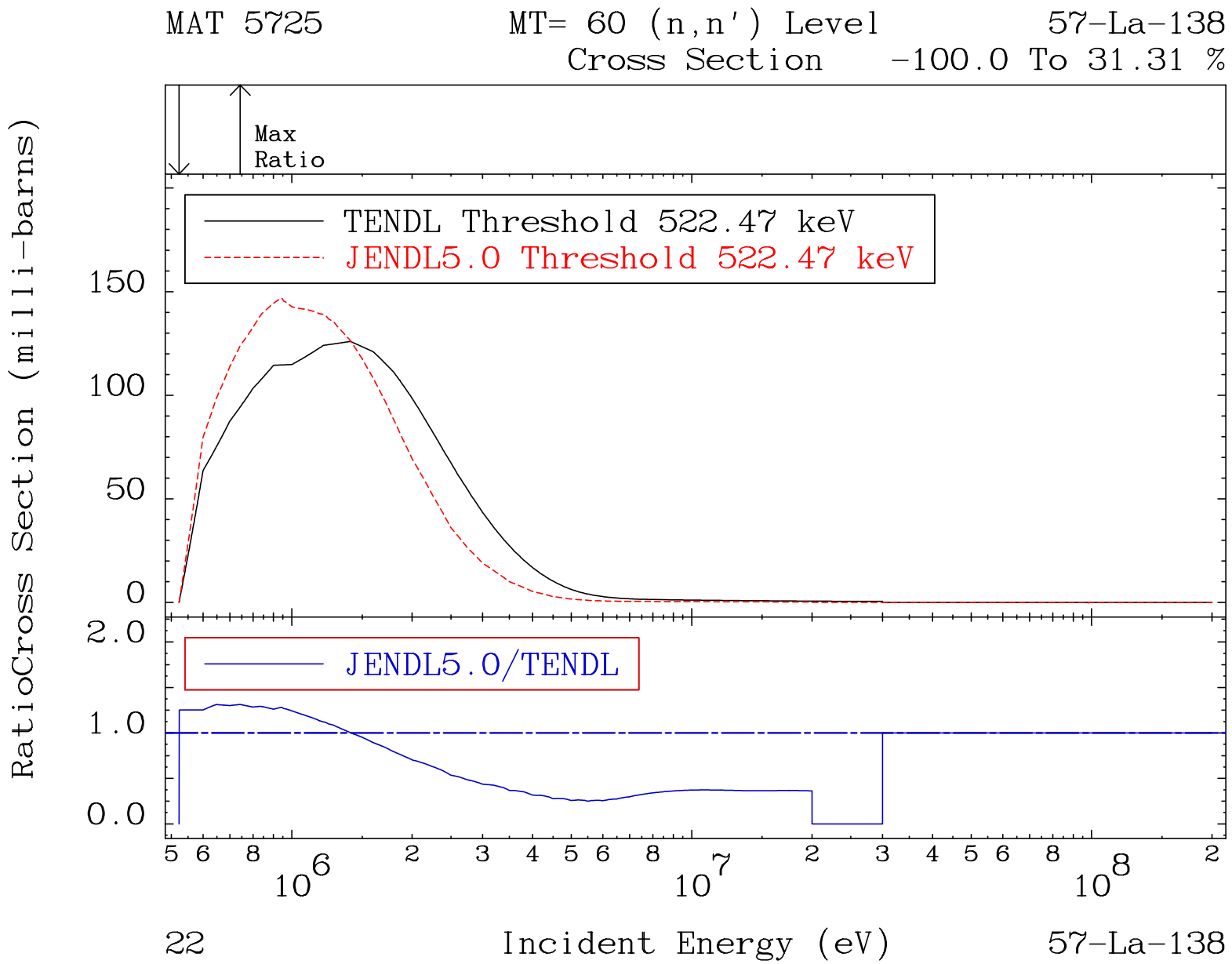

MAT 5725
MT= 55 (n,n') Level
57-La-138
Cross Section
-100.0 To 181.6 %
Max
Ratio
TENDL Threshold 232.08 keV
JENDL5.0 Threshold 232.08 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
4
2
0
3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
17
Incident Energy (eV)
57-La-138

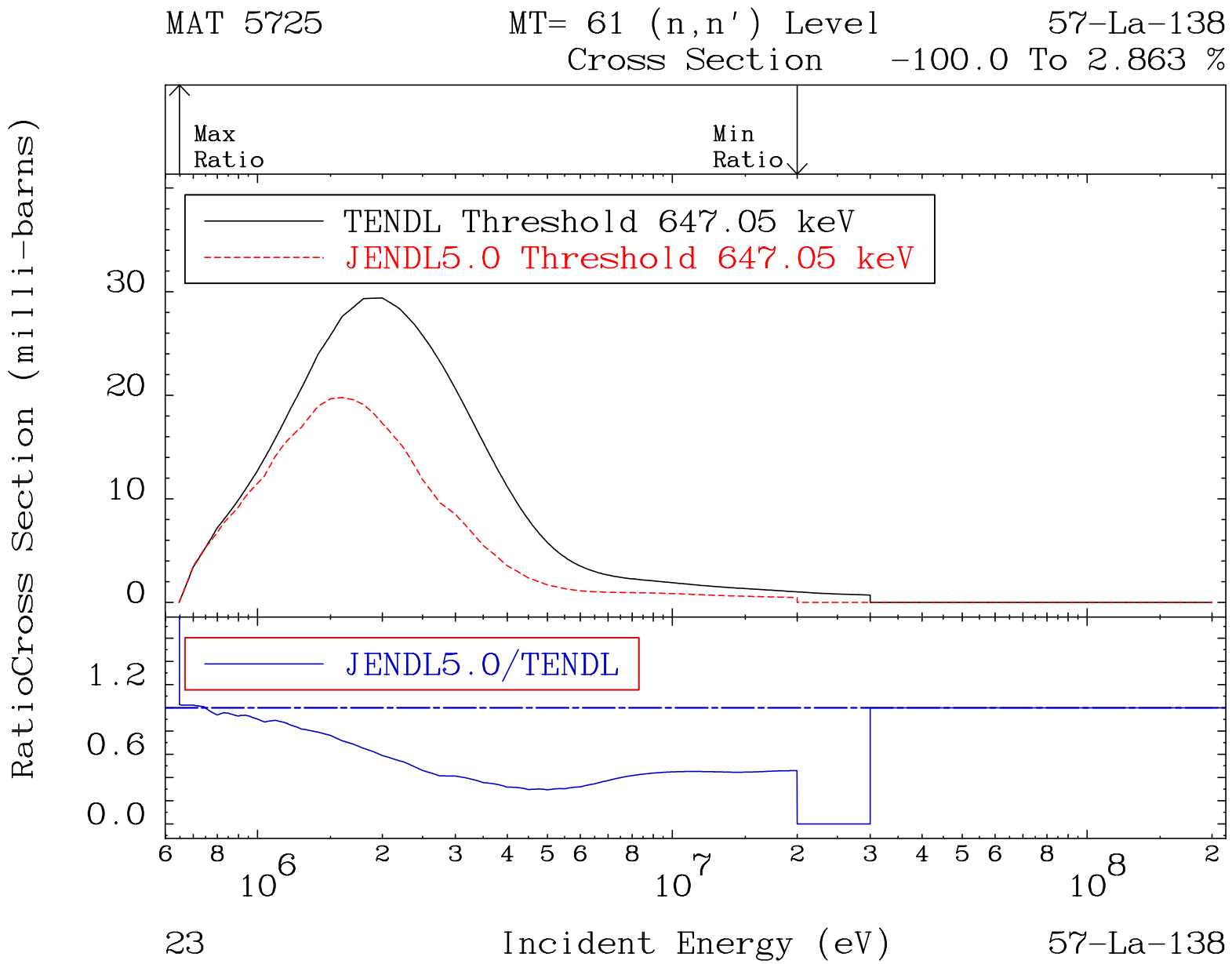

MAT 5725
MT= 56 (n,n') Level
57-La-138
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 295.10 keV
JENDL5.0 Threshold 295.10 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
80
40
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
18
Incident Energy (eV)
57-La-138

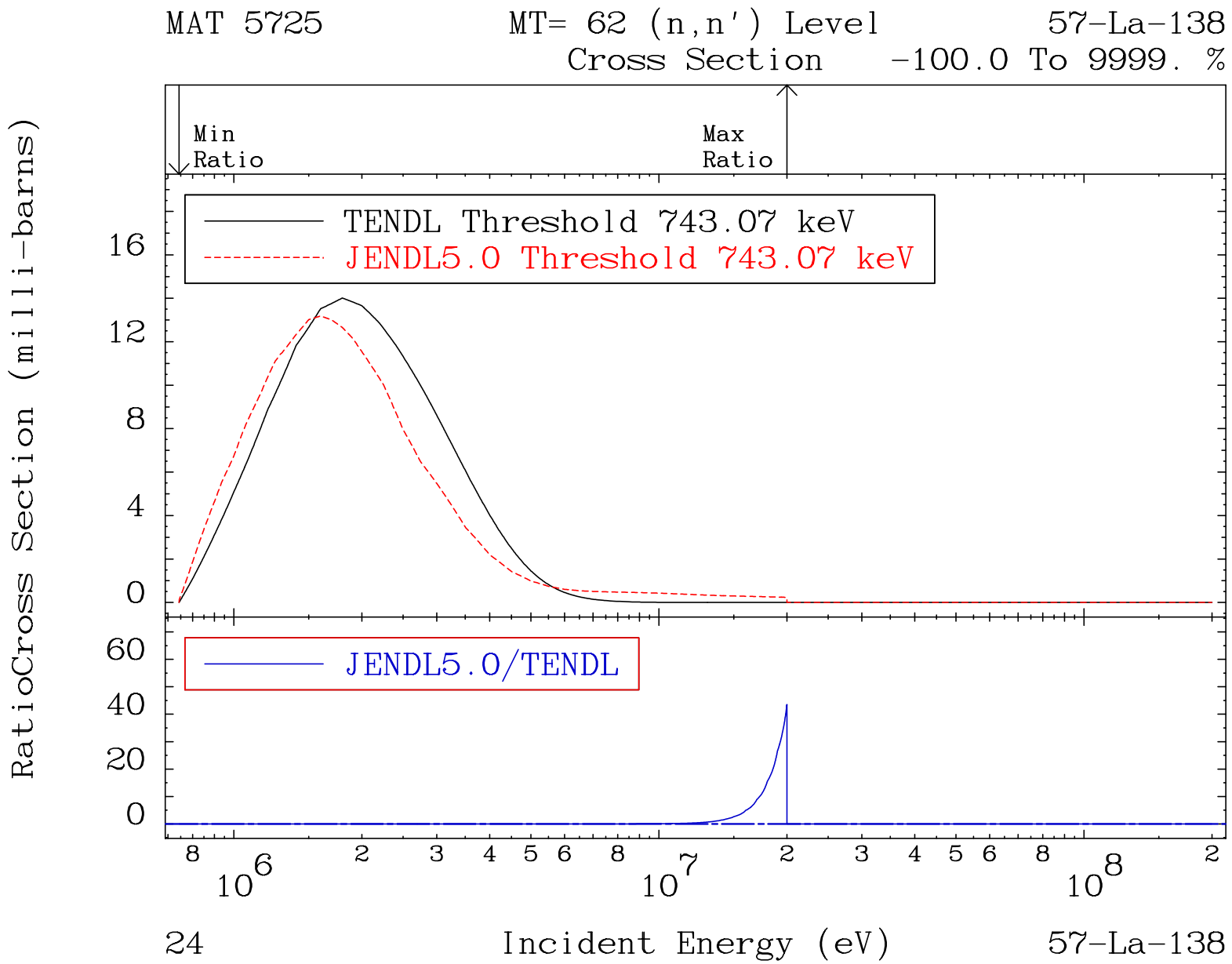

MAT 5725
MT= 57 (n,n') Level
57-La-138
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 416.32 keV
JENDL5.0 Threshold 416.32 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
19
57-La-138

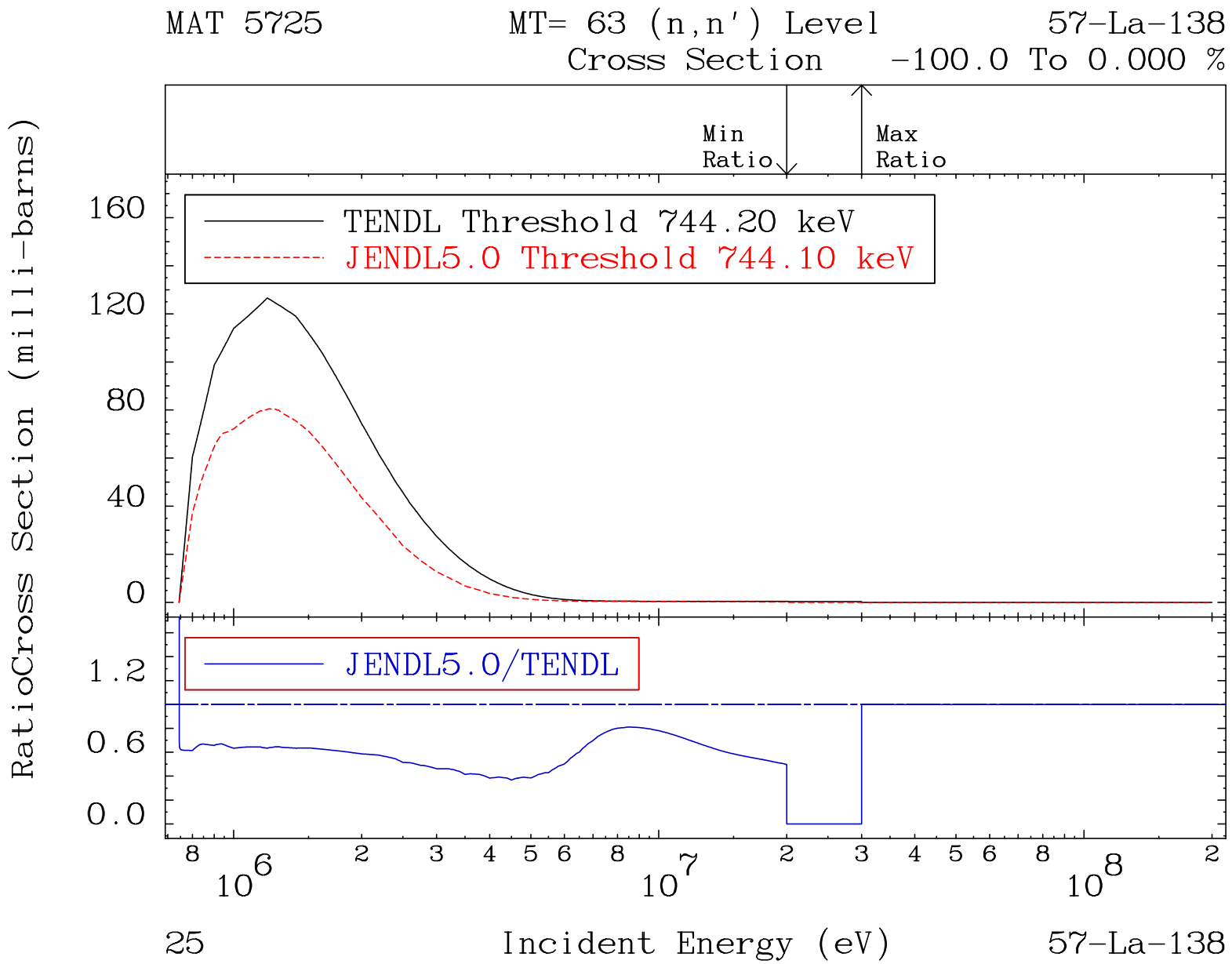

MAT 5725
MT= 58 (n,n') Level
57-La-138
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 482.76 keV
JENDL5.0 Threshold 482.85 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
30
20
10
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
57-La-138

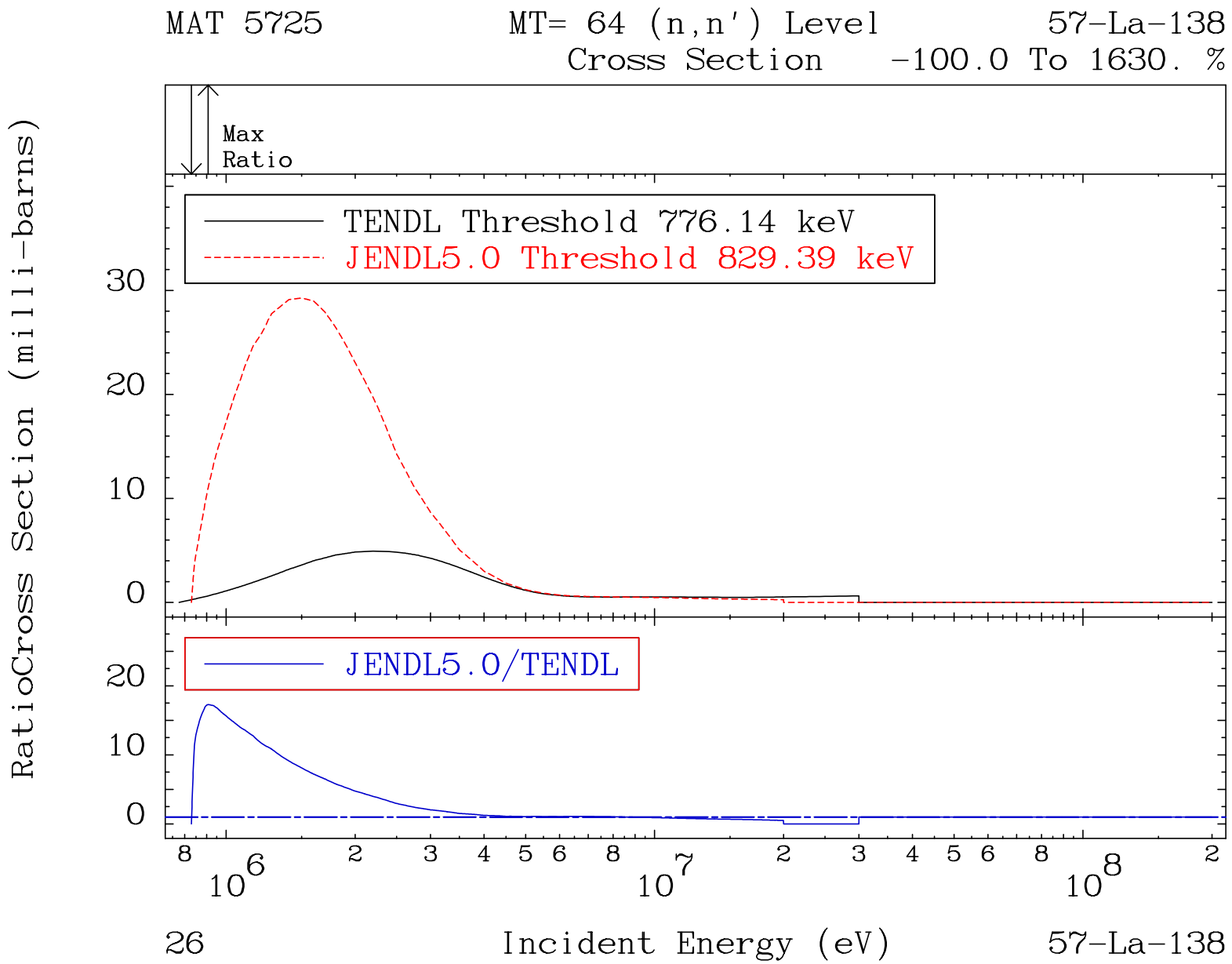

MAT 5725
MT= 59 (n,n') Level
57-La-138
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 514.17 keV
JENDL5.0 Threshold 514.17 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
57-La-138

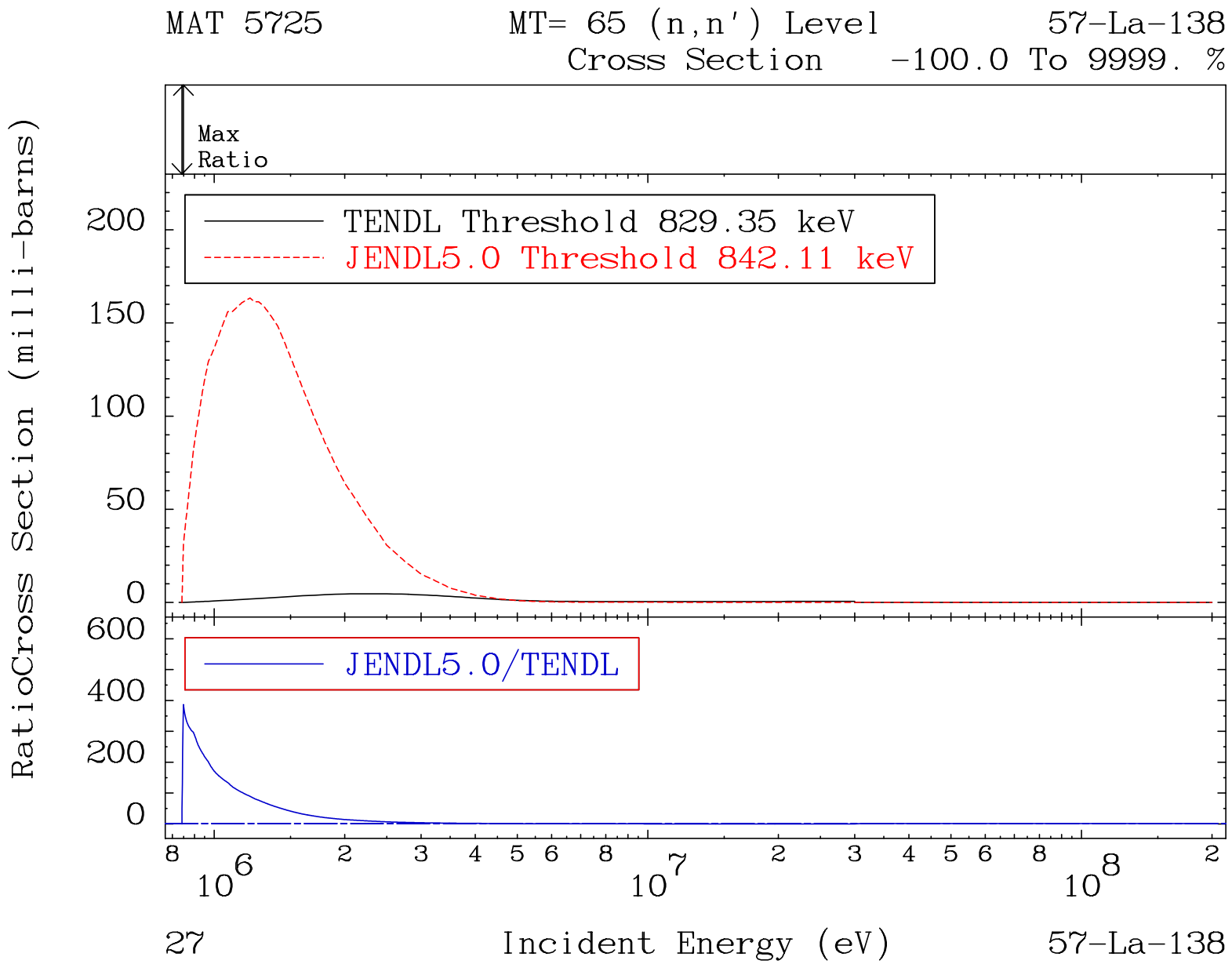

MAT 5725
MT= 60 (n,n') Level
57-La-138
Cross Section
-100.0 To 31.31 %
Max
Ratio
TENDL Threshold 522.47 keV
JENDL5.0 Threshold 522.47 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
2.0
1.0
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
22
Incident Energy (eV)
57-La-138

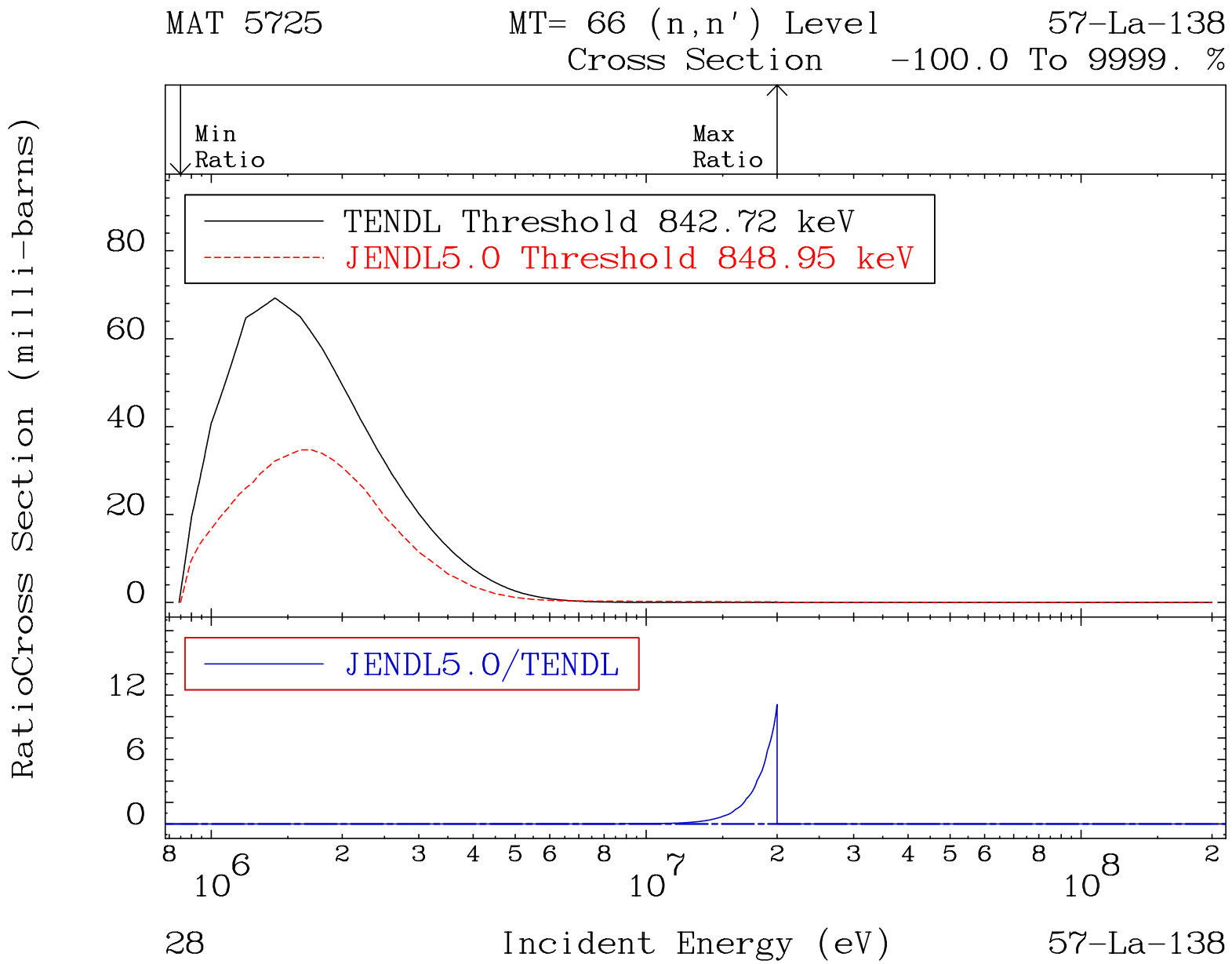

MAT 5725
MT= 61 (n,n') Level
57-La-138
Cross Section
-100.0 To 2.863 %
Max Ratio
Min Ratio
TENDL Threshold 647.05 keV
JENDL5.0 Threshold 647.05 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
1.2
0.6
0.0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
23
Incident Energy (eV)
57-La-138

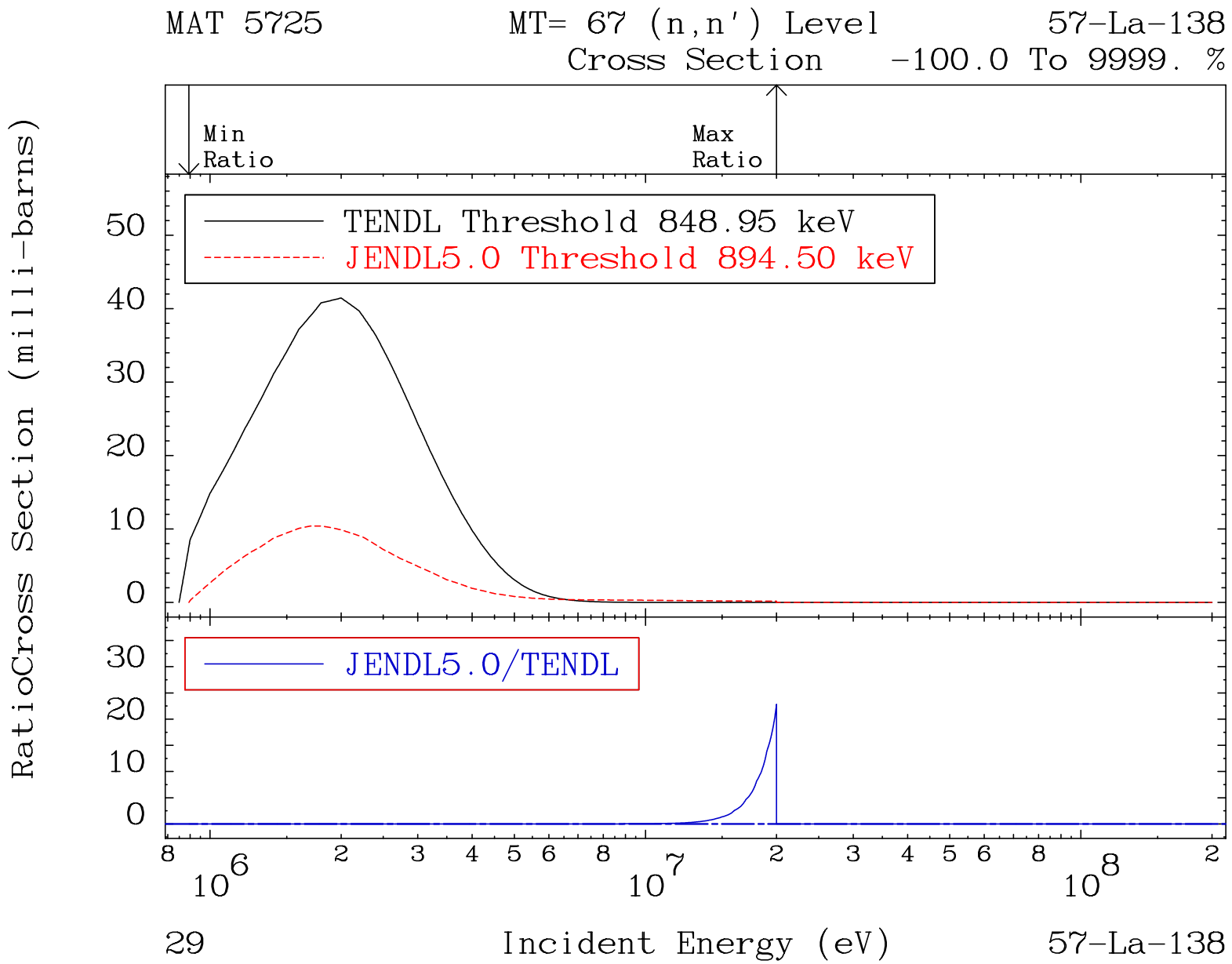

MAT 5725
MT= 62 (n,n') Level
57-La-138
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 743.07 keV
JENDL5.0 Threshold 743.07 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
60
40
20
0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
24
Incident Energy (eV)
57-La-138

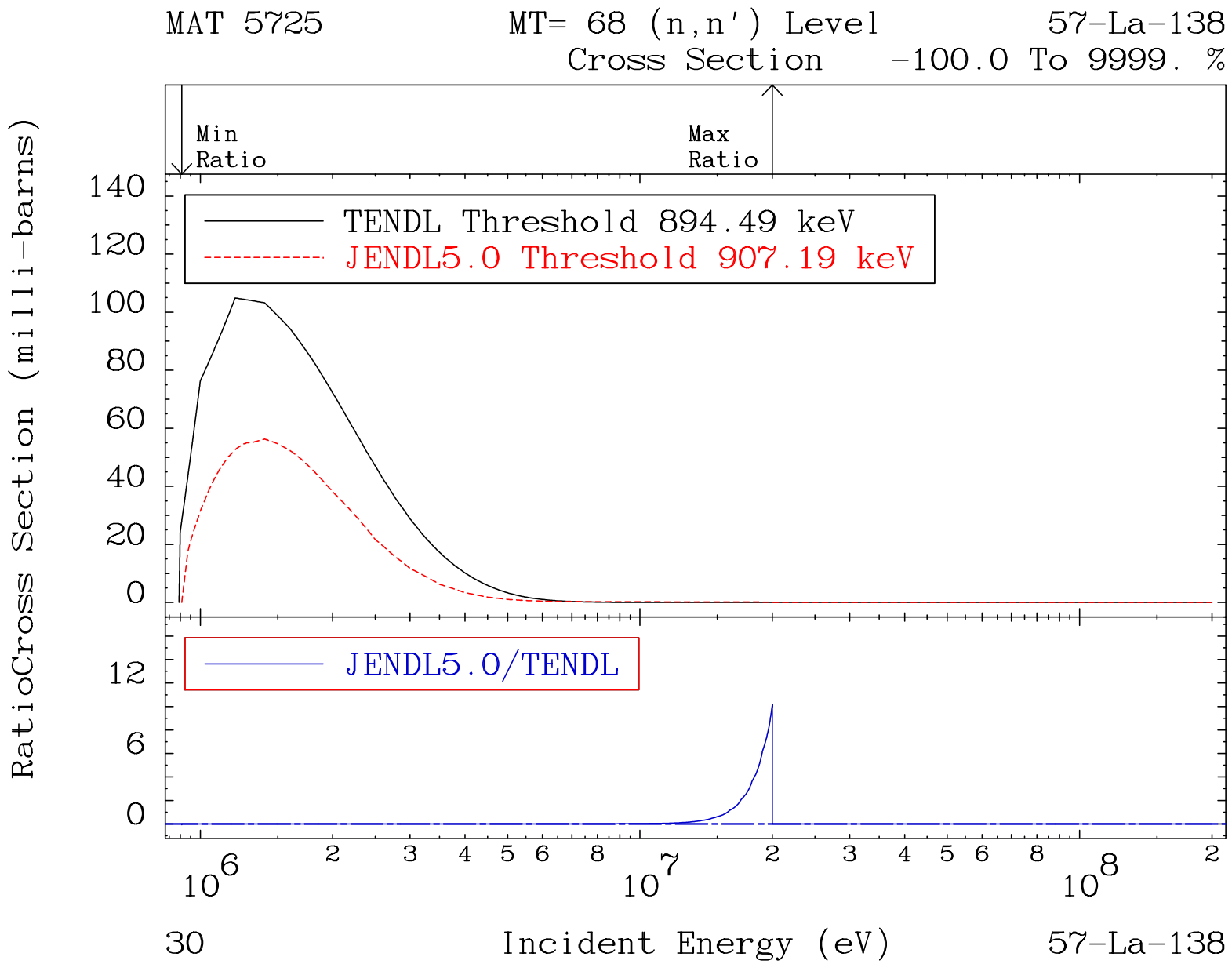

MAT 5725
MT= 63 (n,n') Level
57-La-138
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 744.20 keV
JENDL5.0 Threshold 744.10 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
25
Incident Energy (eV)
57-La-138

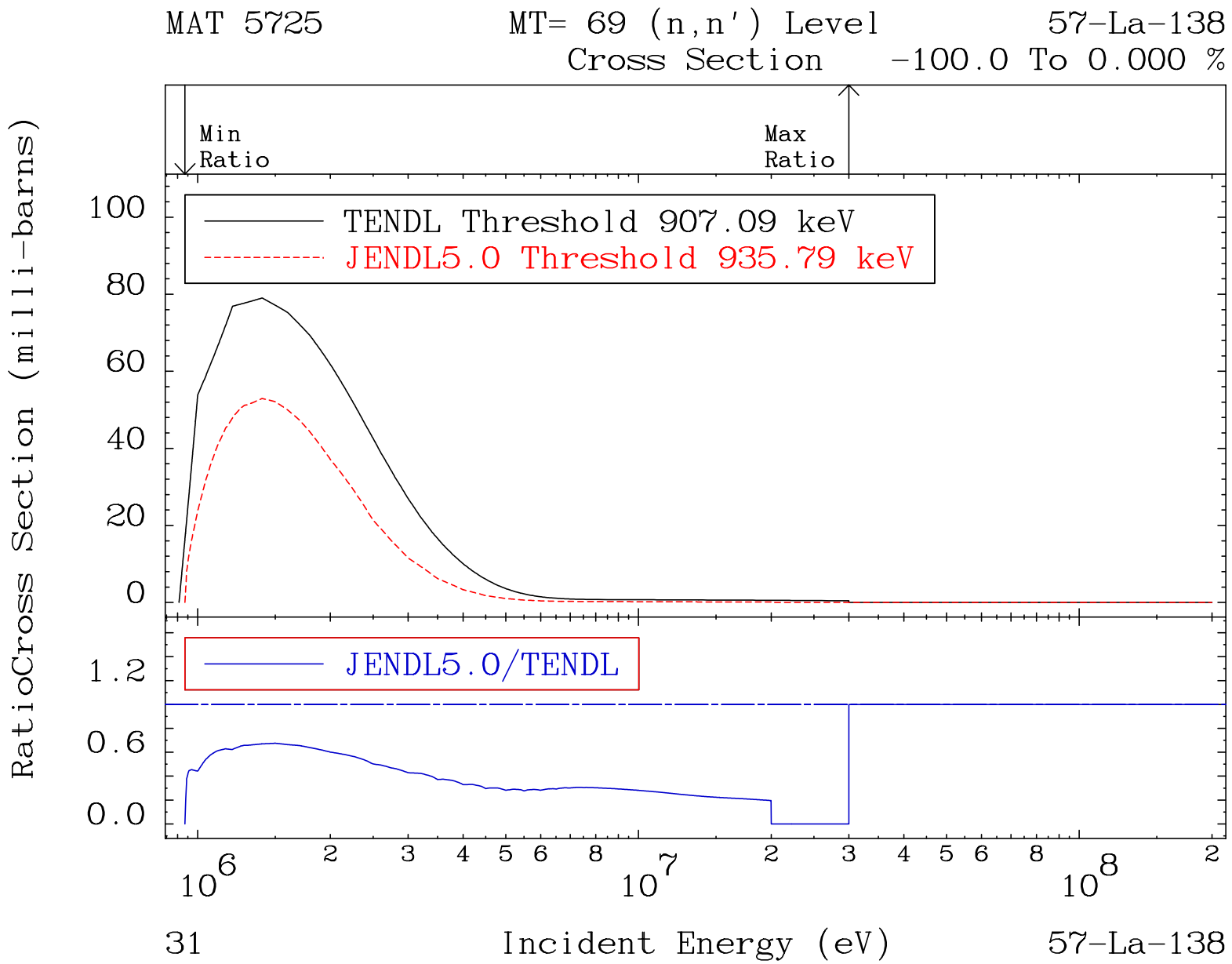

MAT 5725
MT= 64 (n,n') Level
57-La-138
Cross Section -100.0 To 1630. %
Max
Ratio
TENDL Threshold 776.14 keV
JENDL5.0 Threshold 829.39 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
20
10
0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
26
Incident Energy (eV)
57-La-138

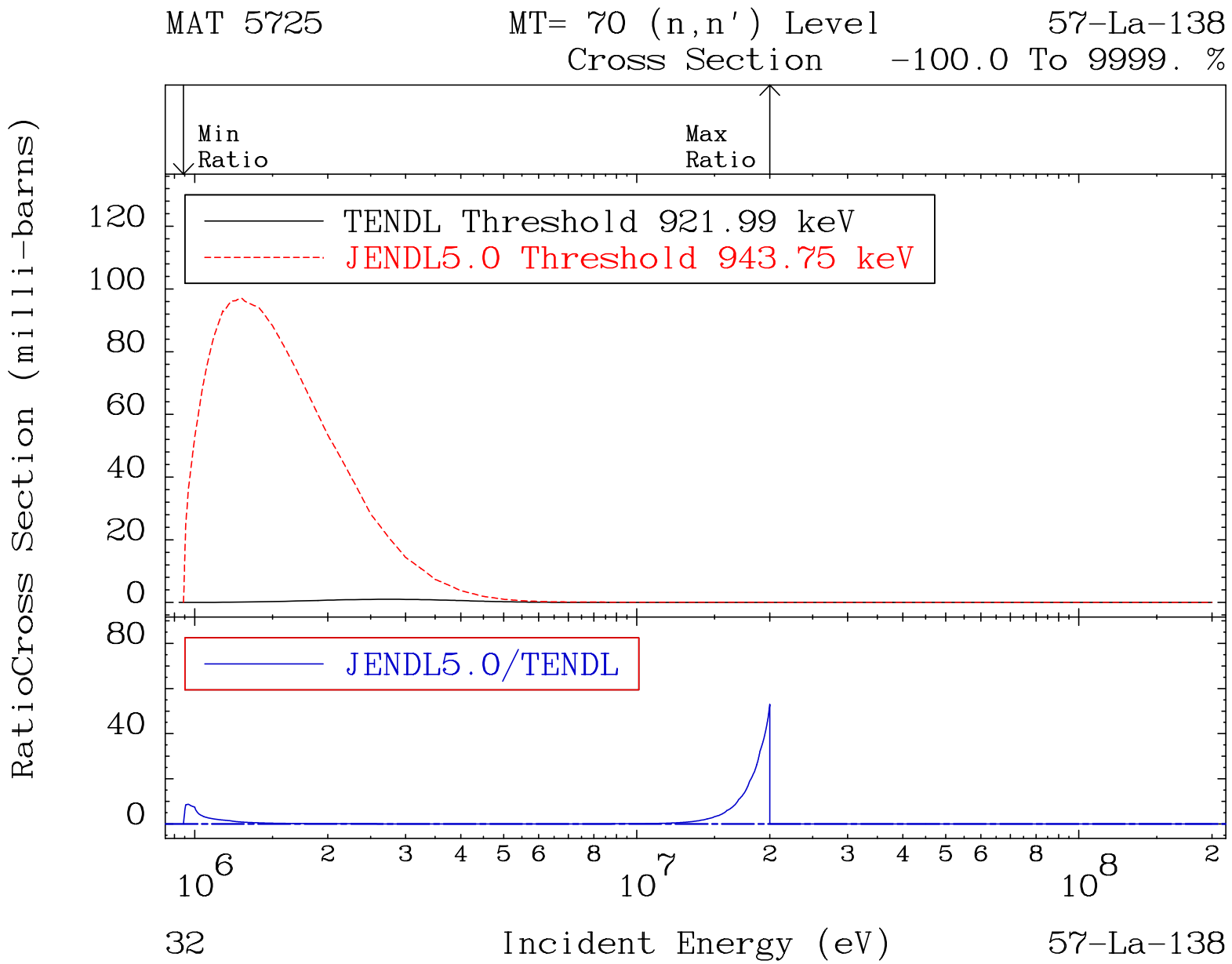

MAT 5725
MT= 65 (n,n') Level
57-La-138
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 829.35 keV
JENDL5.0 Threshold 842.11 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
600
400
200
0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
27
Incident Energy (eV)
57-La-138

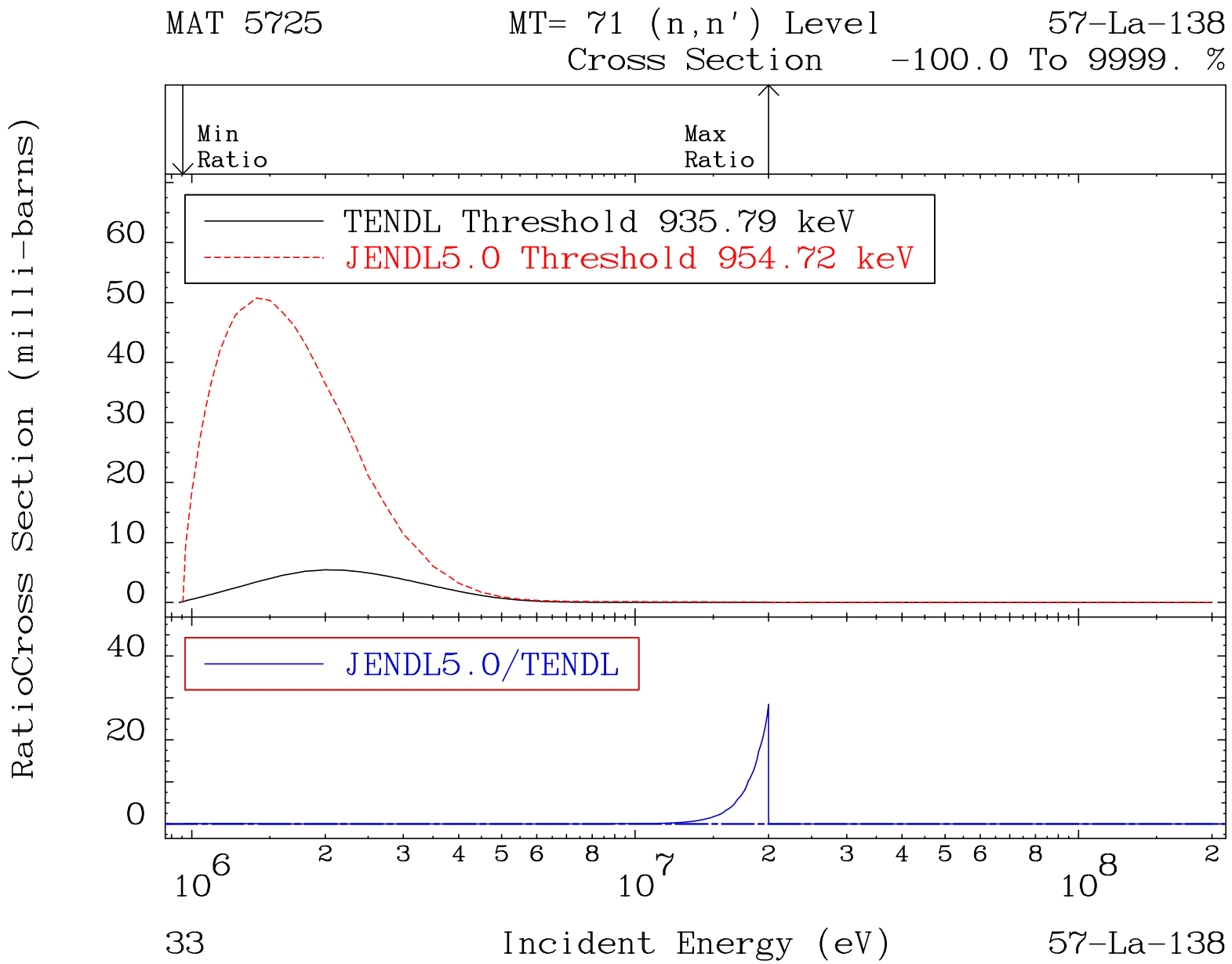

MAT 5725
MT= 66 (n,n') Level
57-La-138
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 842.72 keV
JENDL5.0 Threshold 848.95 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
12
6
0
8
2
3
4
5
6
8
10^6
10^7
10^8
28
Incident Energy (eV)
57-La-138

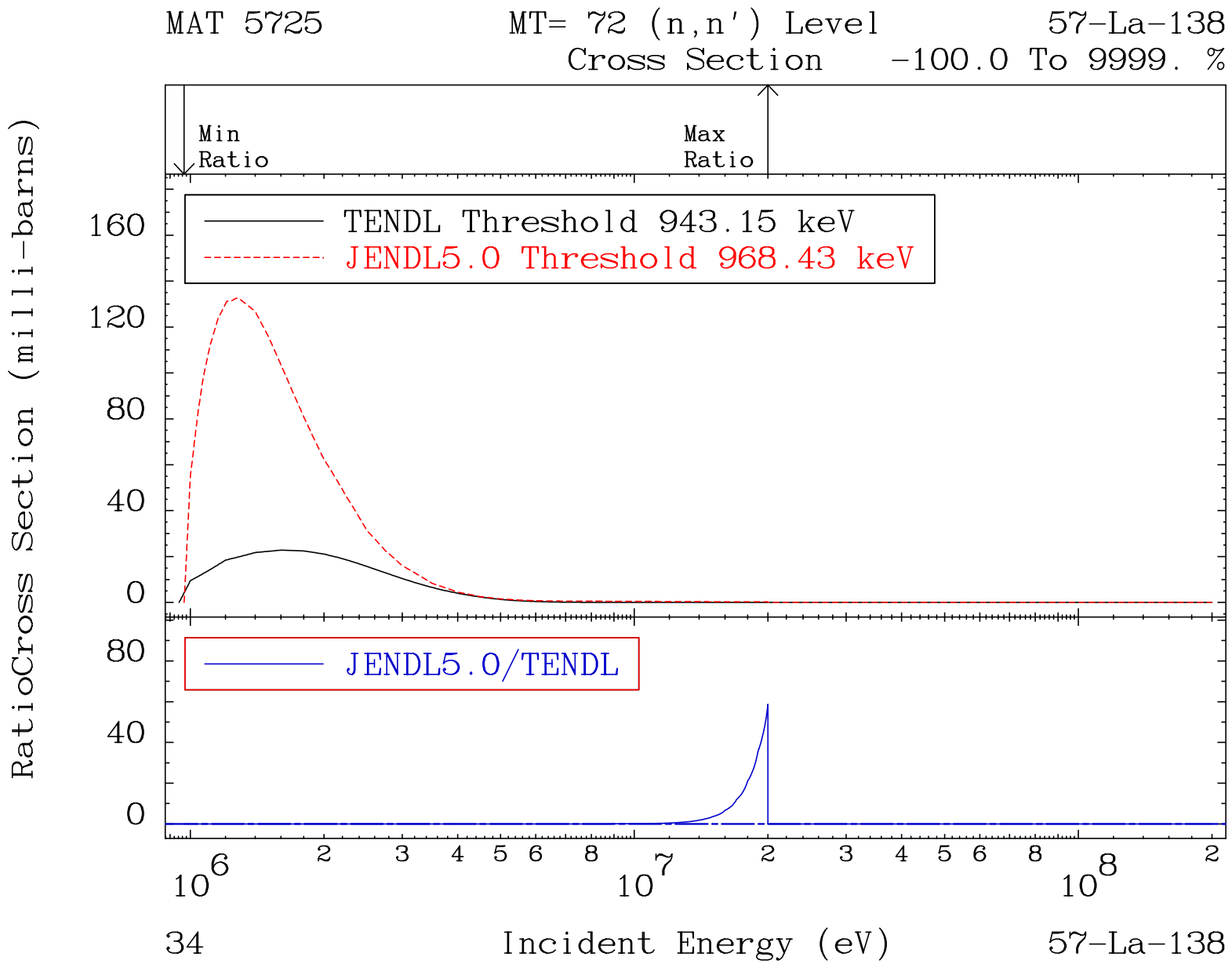

MAT 5725
MT= 67 (n,n') Level
57-La-138
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 848.95 keV
JENDL5.0 Threshold 894.50 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
30
20
10
0
8
2
3
4
5
6
8
10^6
10^7
10^8
29
Incident Energy (eV)
57-La-138

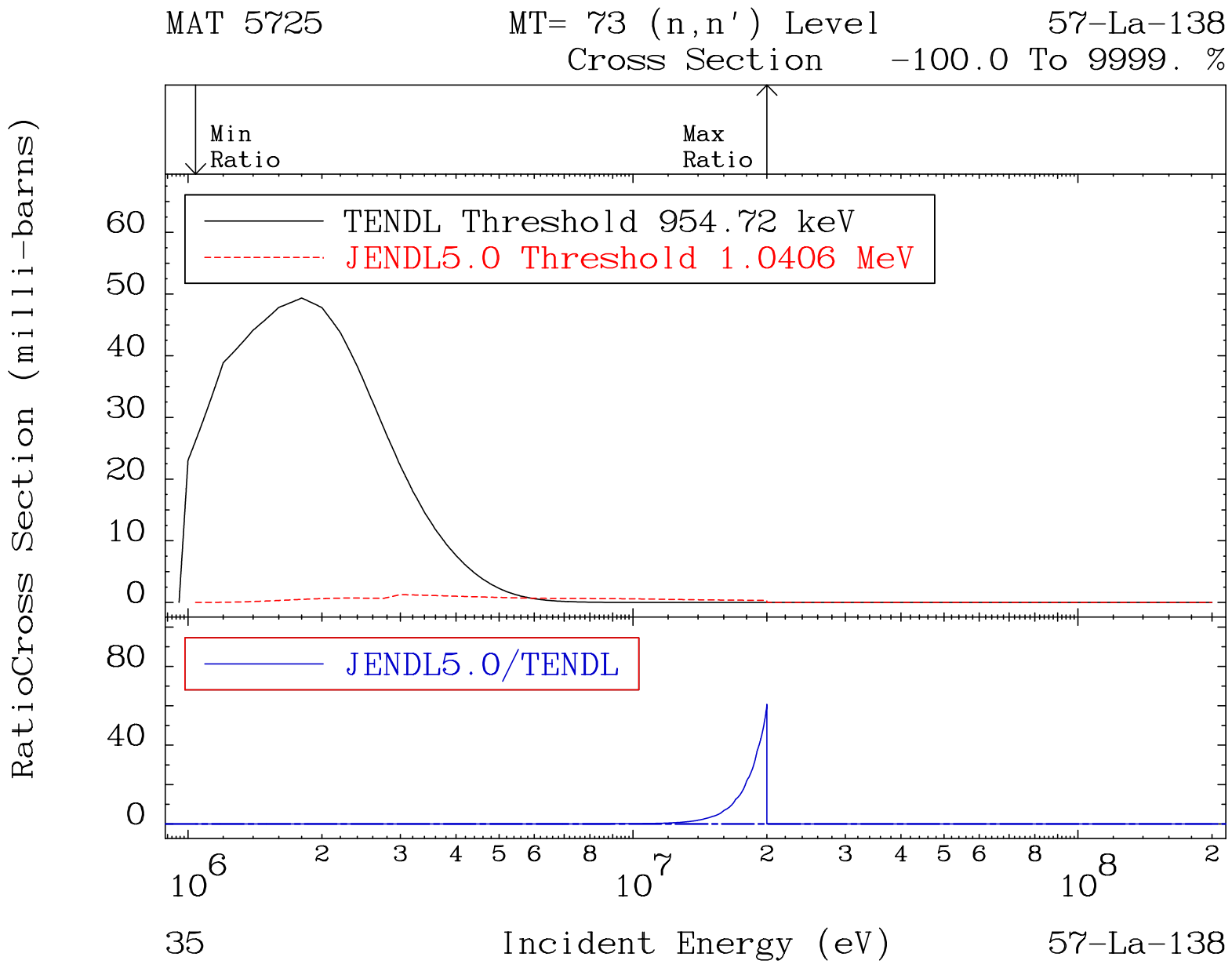

MAT 5725
MT= 68 (n,n') Level
57-La-138
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 894.49 keV
JENDL5.0 Threshold 907.19 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
12
6
0
10^6
10^7
10^8
Incident Energy (eV)
30
57-La-138

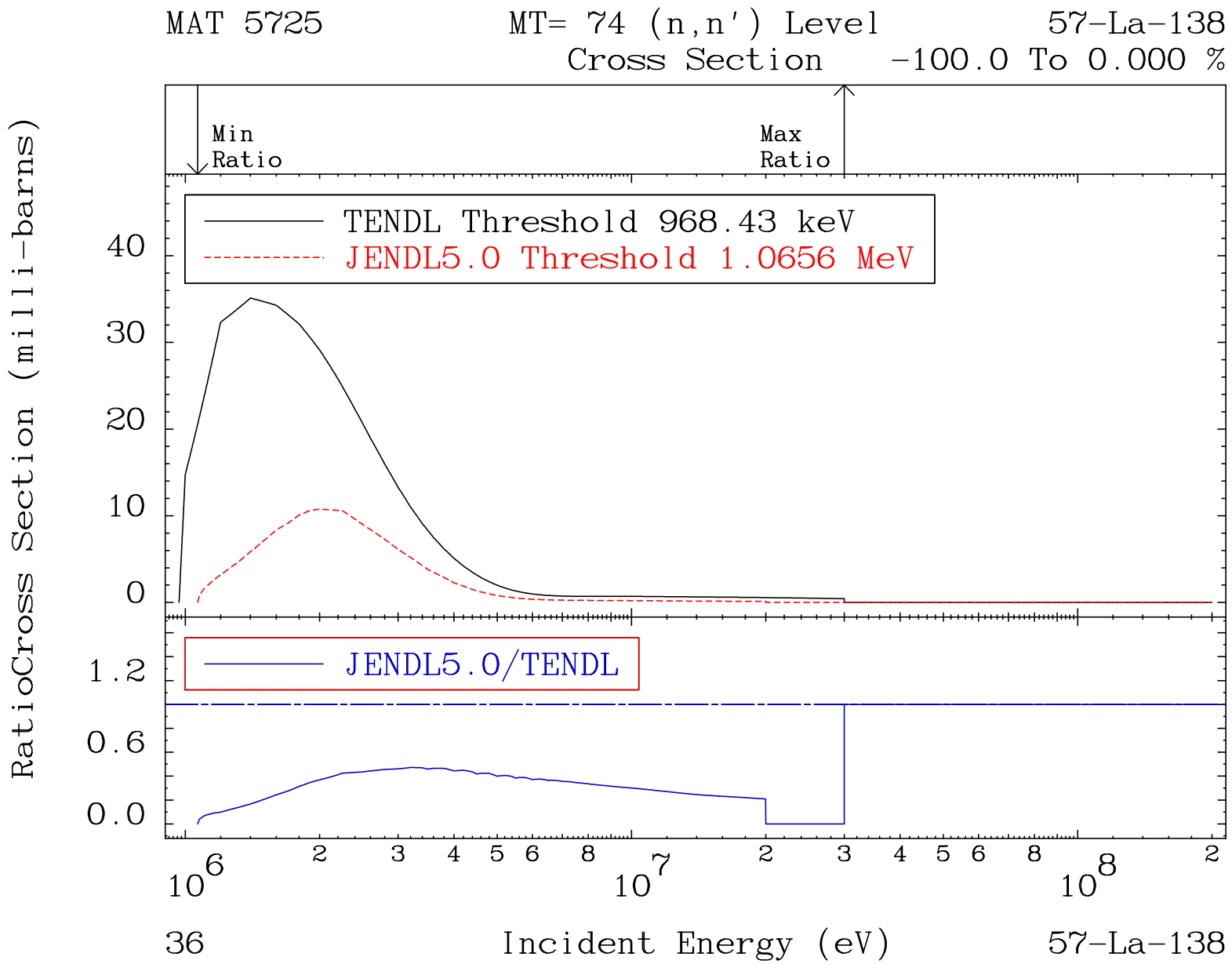

MAT 5725
MT= 69 (n,n') Level
57-La-138
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 907.09 keV
JENDL5.0 Threshold 935.79 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.6
0.0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
31
Incident Energy (eV)
57-La-138

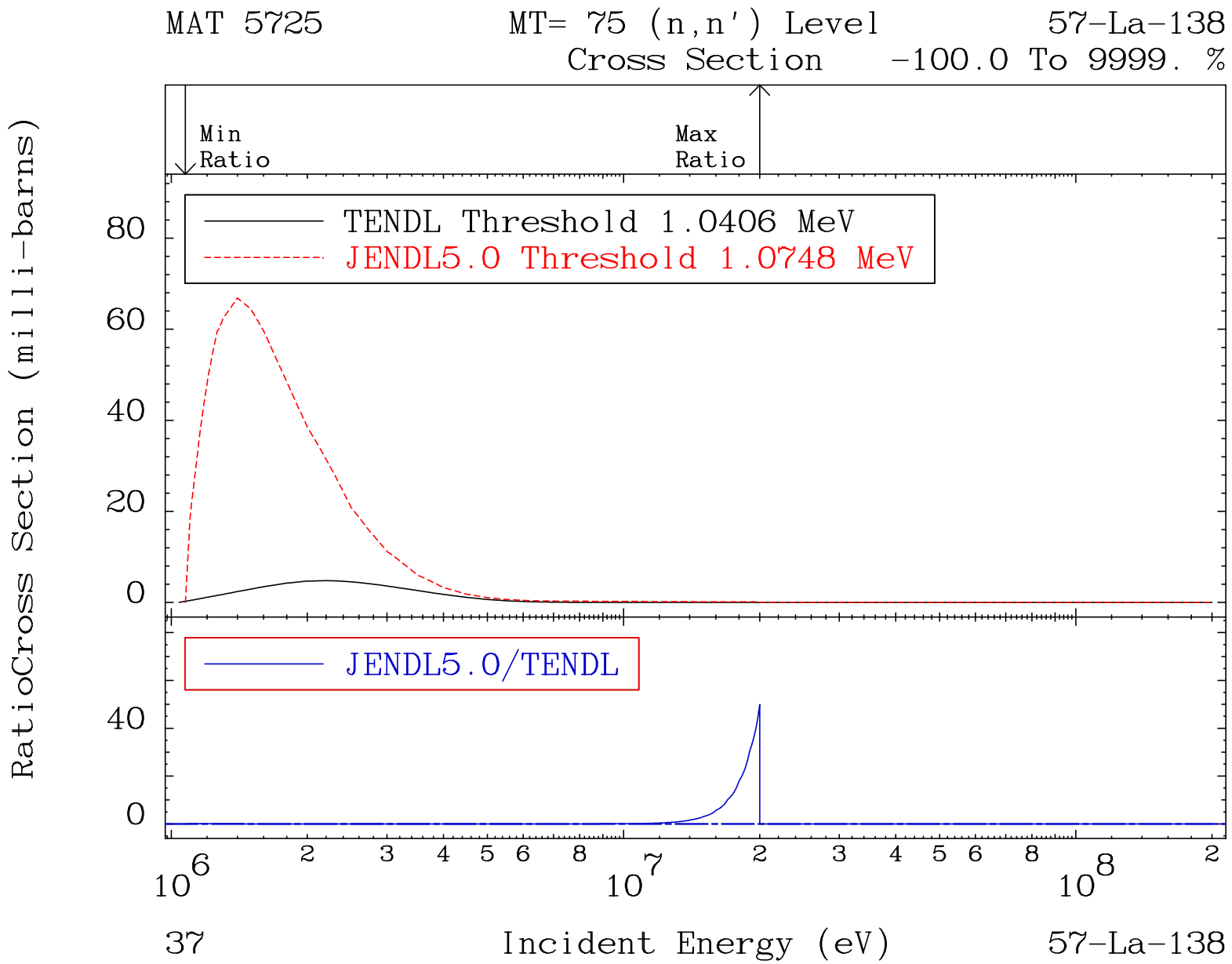

MAT 5725
MT= 70 (n,n') Level
57-La-138
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 921.99 keV
JENDL5.0 Threshold 943.75 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
80
40
0
2
3
4
5
6
8
10^6
10^7
10^8
32
Incident Energy (eV)
57-La-138

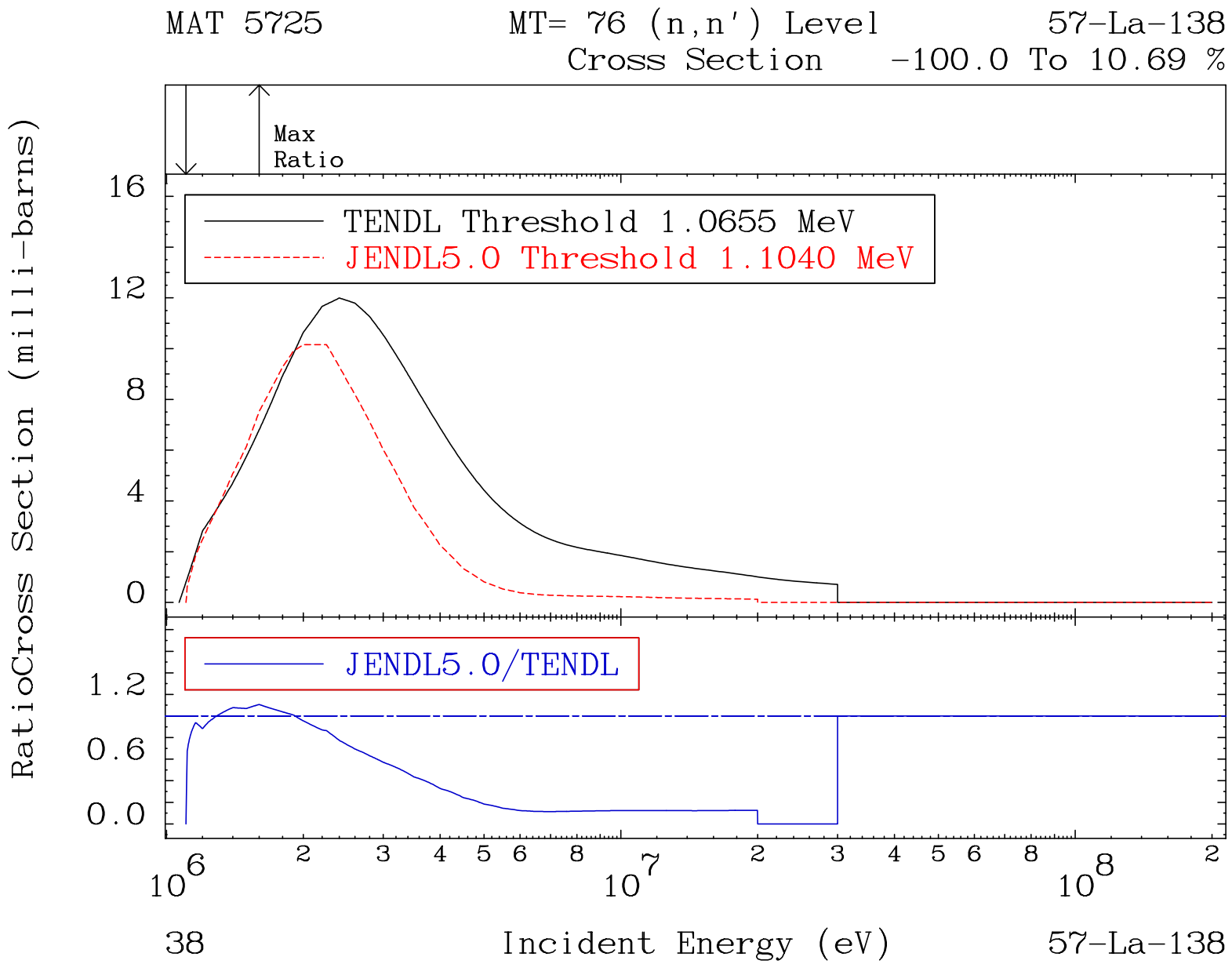

MAT 5725
MT= 71 (n,n') Level
57-La-138
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 935.79 keV
JENDL5.0 Threshold 954.72 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
40
20
0
10^6
10^7
10^8
2 3 4 5 6 8
33
Incident Energy (eV)
57-La-138

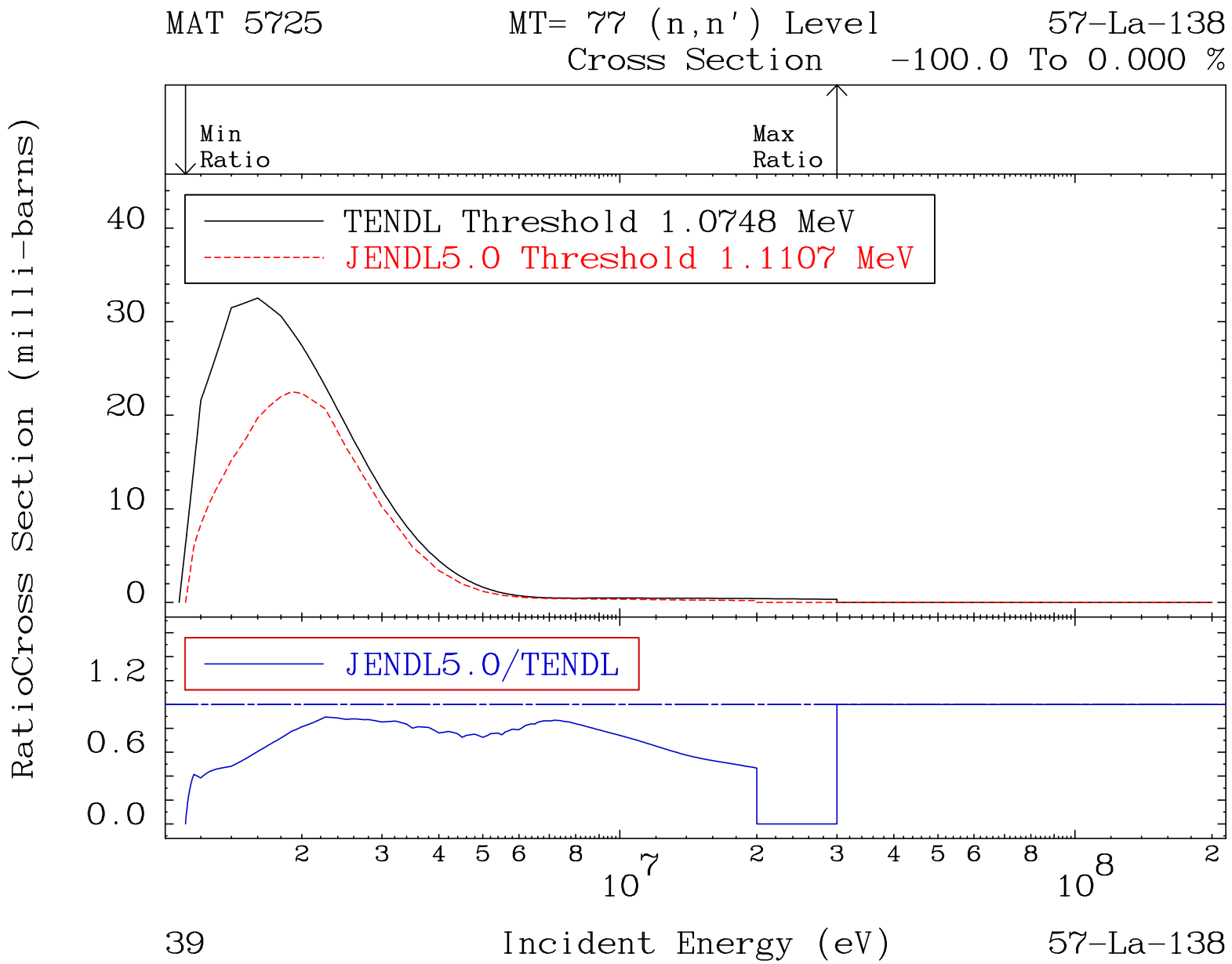

MAT 5725
MT= 72 (n,n') Level
57-La-138
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 943.15 keV
JENDL5.0 Threshold 968.43 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
80
40
0
10^6
10^7
10^8
2 3 4 5 6 8
34
Incident Energy (eV)
57-La-138

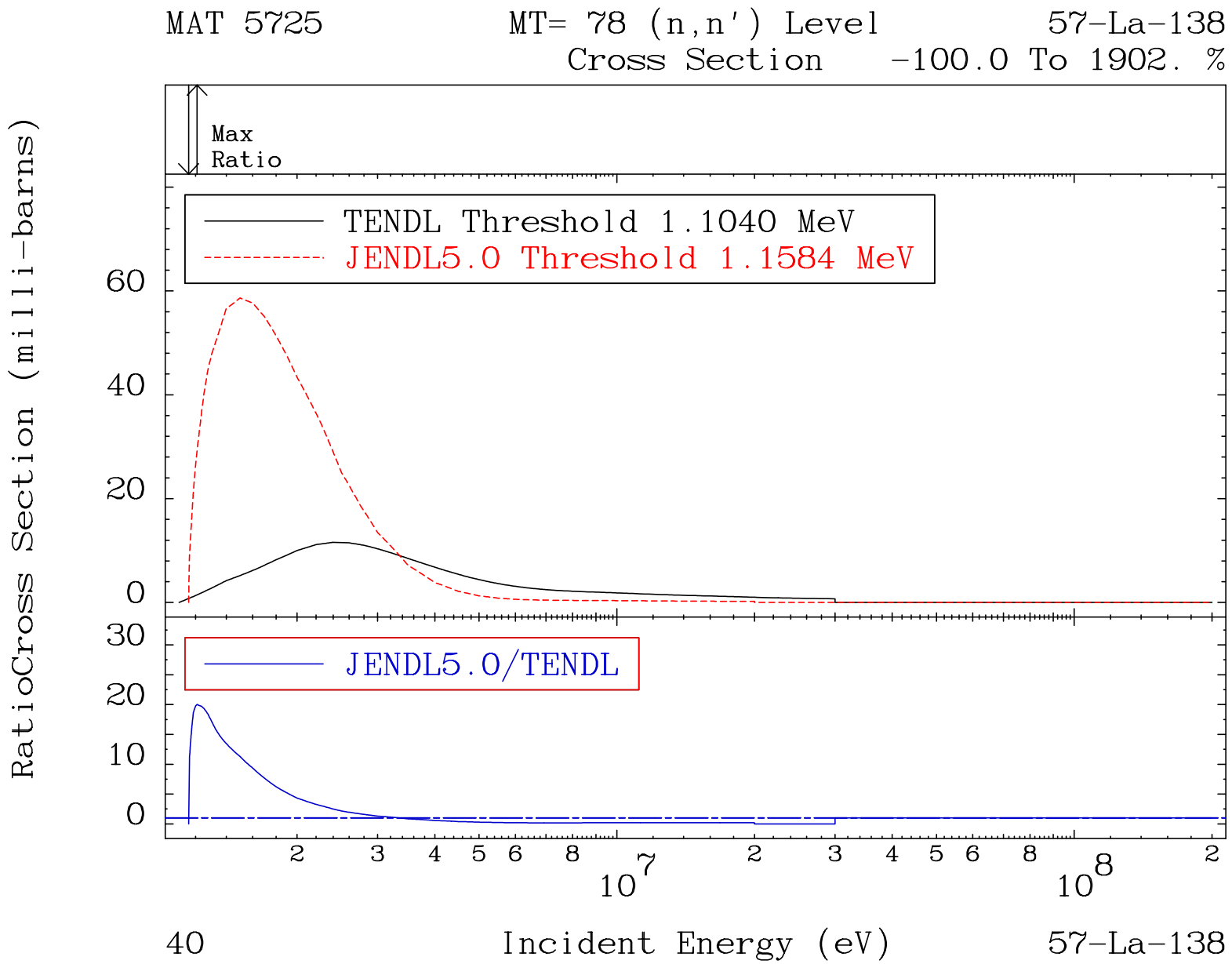

MAT 5725
MT= 73 (n,n') Level
57-La-138
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 954.72 keV
JENDL5.0 Threshold 1.0406 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
80
40
0
10^6
10^7
10^8
2 3 4 5 6 8 2 3 4 5 6 8 2
35
Incident Energy (eV)
57-La-138

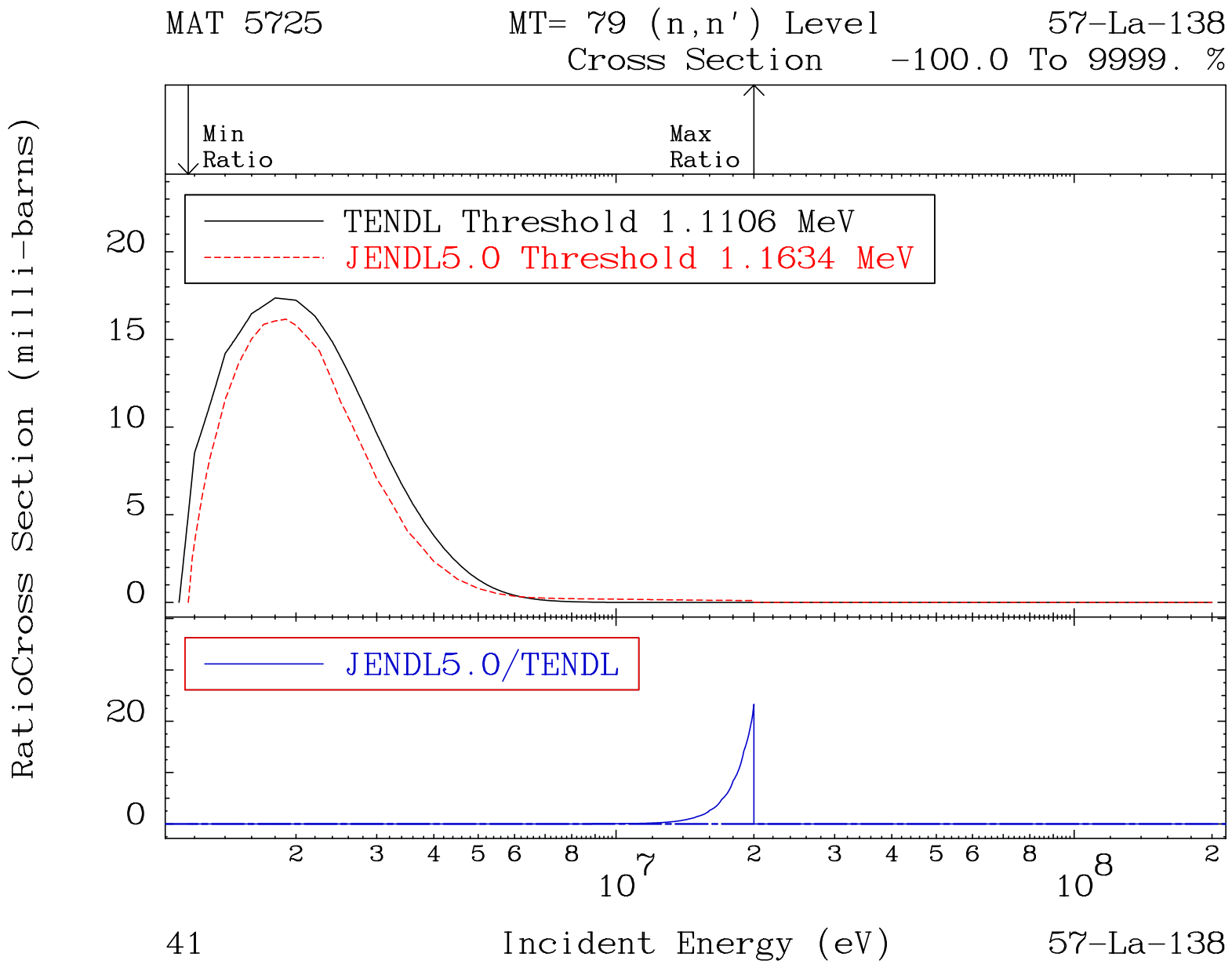

MAT 5725
MT= 74 (n,n') Level
57-La-138
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 968.43 keV
JENDL5.0 Threshold 1.0656 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
36
Incident Energy (eV)
57-La-138

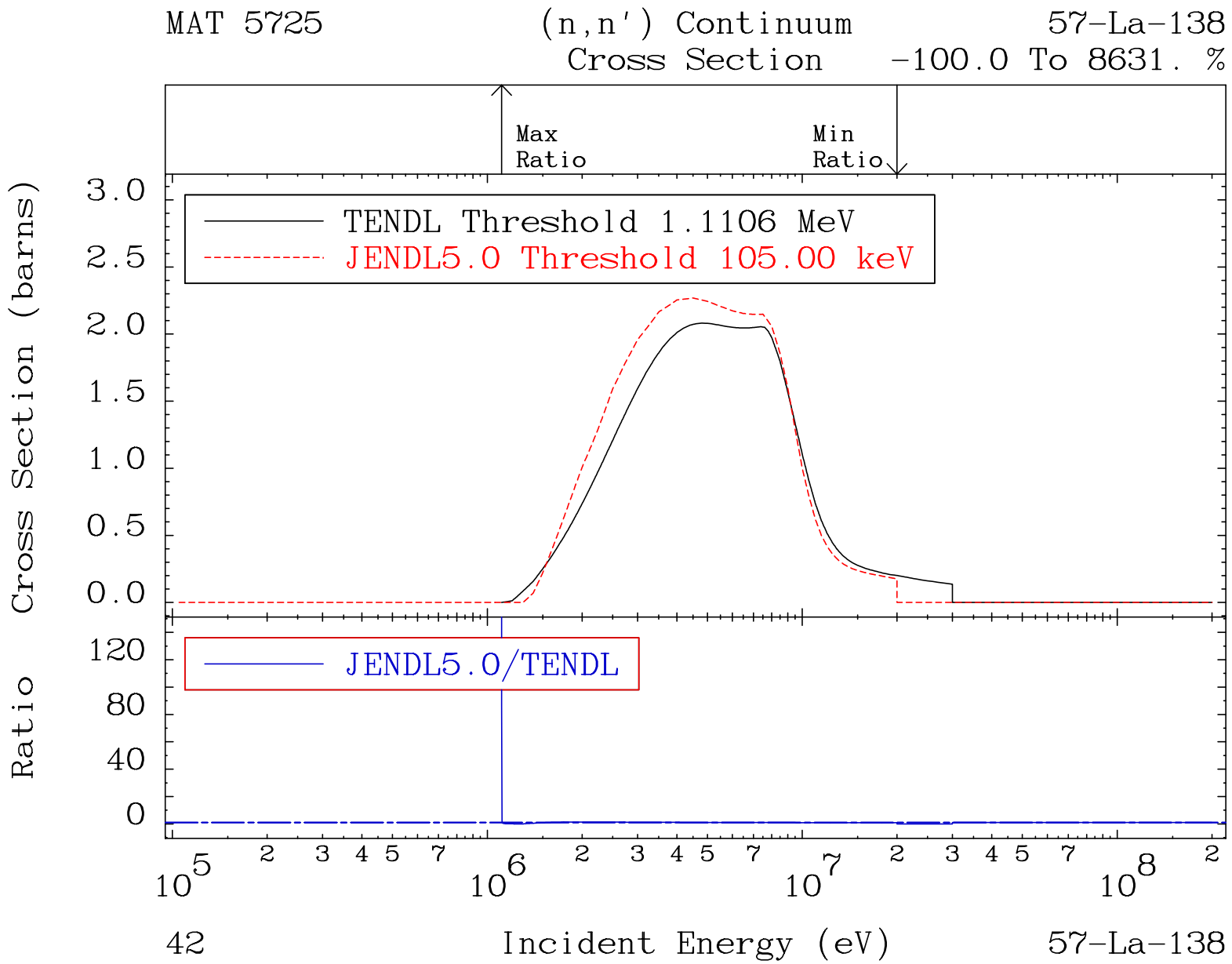

MAT 5725
MT= 75 (n,n') Level
57-La-138
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.0406 MeV
JENDL5.0 Threshold 1.0748 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
40
0
10^6
10^7
10^8
2 3 4 5 6 8
Incident Energy (eV)
37
57-La-138

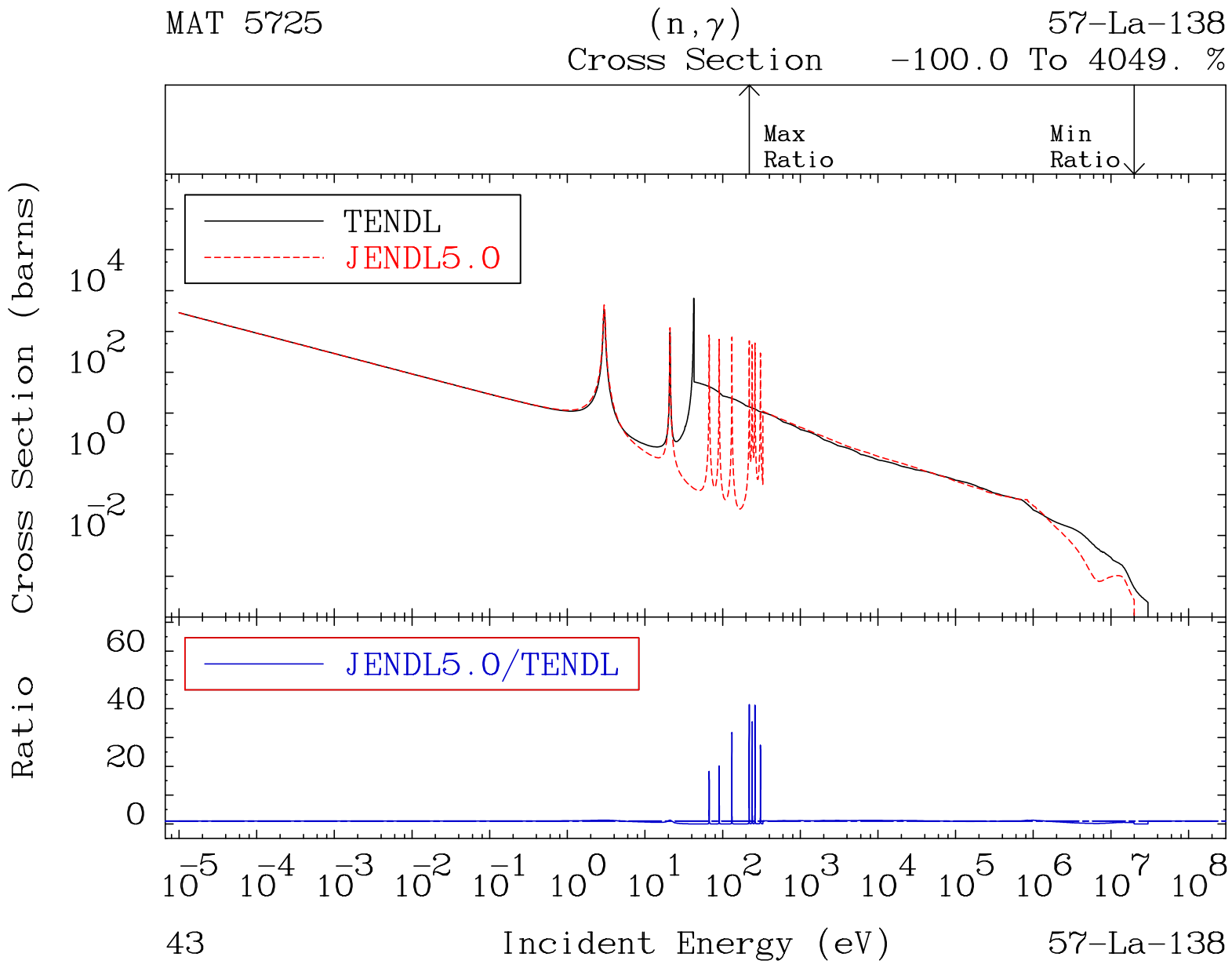

MAT 5725
MT= 76 (n,n') Level
57-La-138
Cross Section
-100.0 To 10.69 %
Max
Ratio
TENDL Threshold 1.0655 MeV
JENDL5.0 Threshold 1.1040 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.2
0.6
0.0
10^6
10^7
10^8
Incident Energy (eV)
38
57-La-138

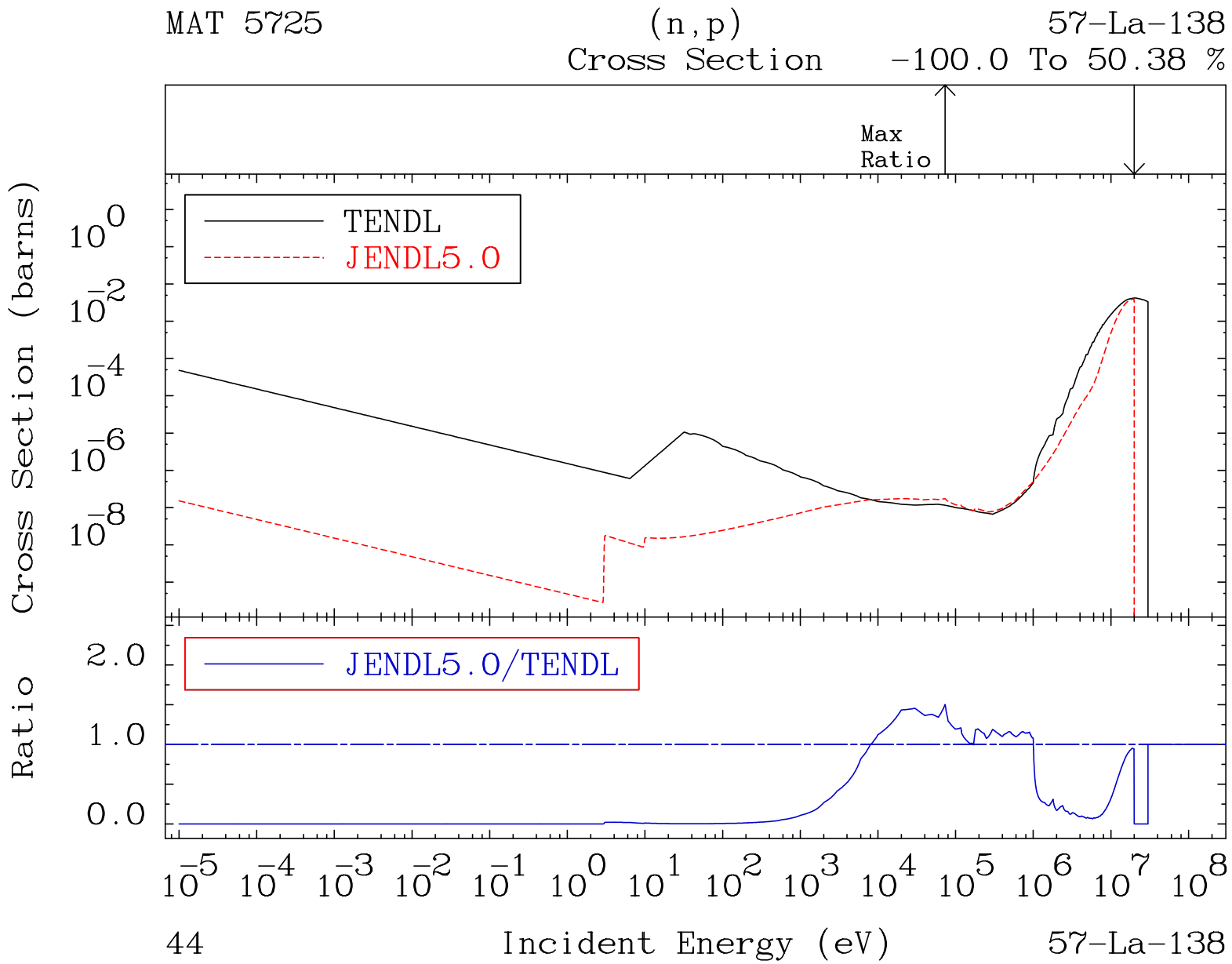

MAT 5725
MT= 77 (n,n') Level
57-La-138
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.0748 MeV
JENDL5.0 Threshold 1.1107 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
39
Incident Energy (eV)
57-La-138

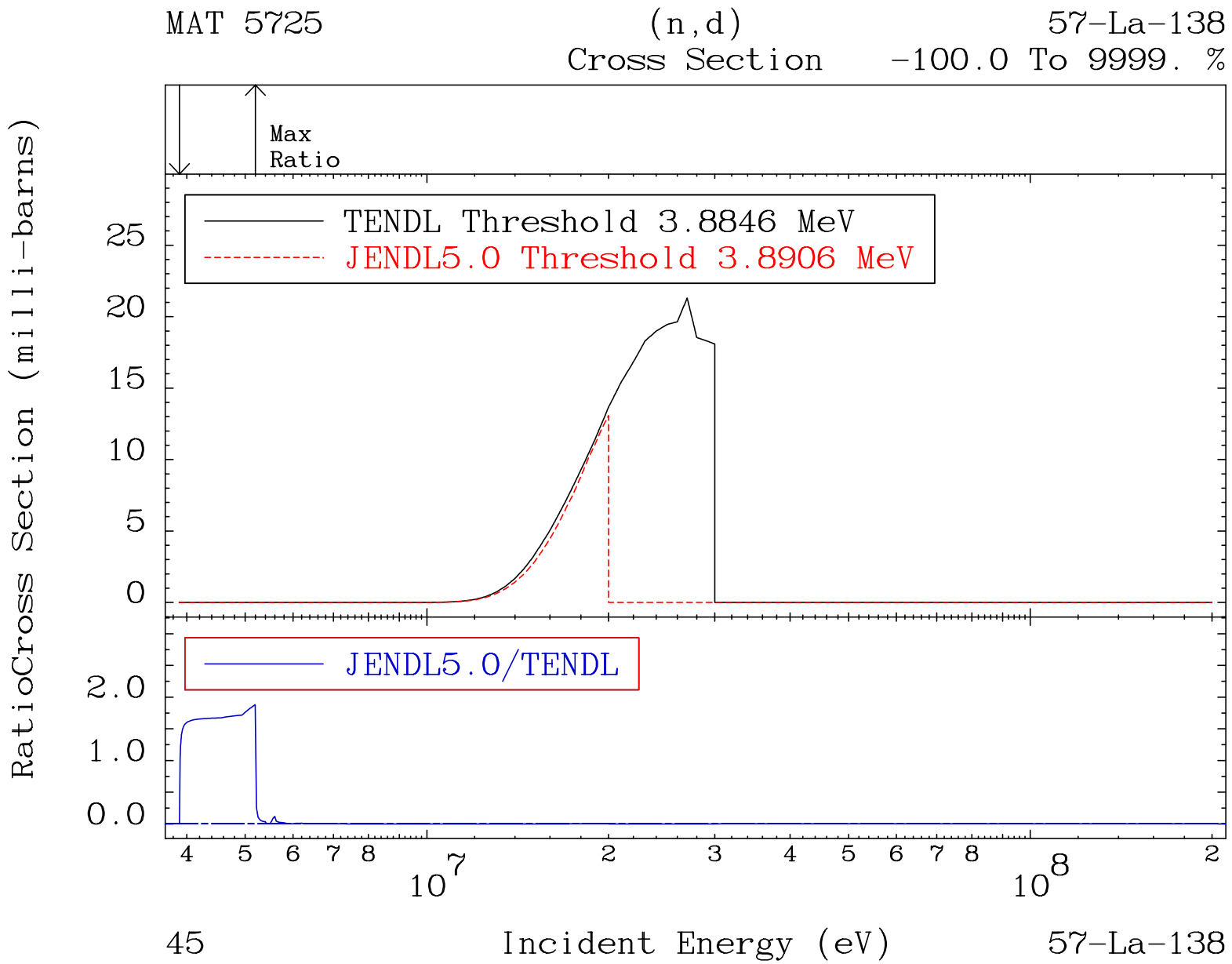

MAT 5725
MT= 78 (n,n') Level
57-La-138
Cross Section
-100.0 To 1902. %
Max
Ratio
TENDL Threshold 1.1040 MeV
JENDL5.0 Threshold 1.1584 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
30
20
10
0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
40
Incident Energy (eV)
57-La-138

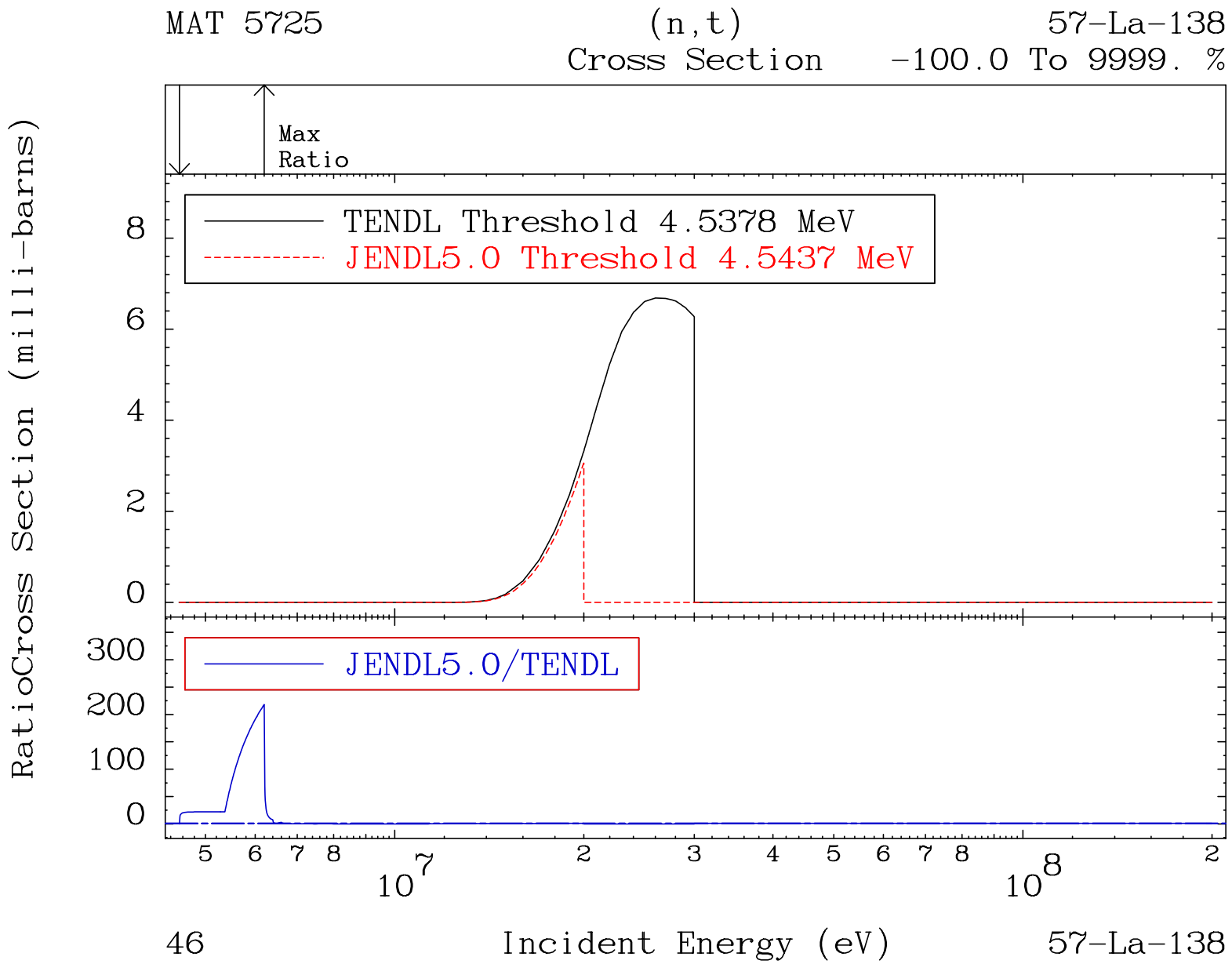

MAT 5725
MT= 79 (n,n') Level
57-La-138
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1106 MeV
JENDL5.0 Threshold 1.1634 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
20
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
41
Incident Energy (eV)
57-La-138

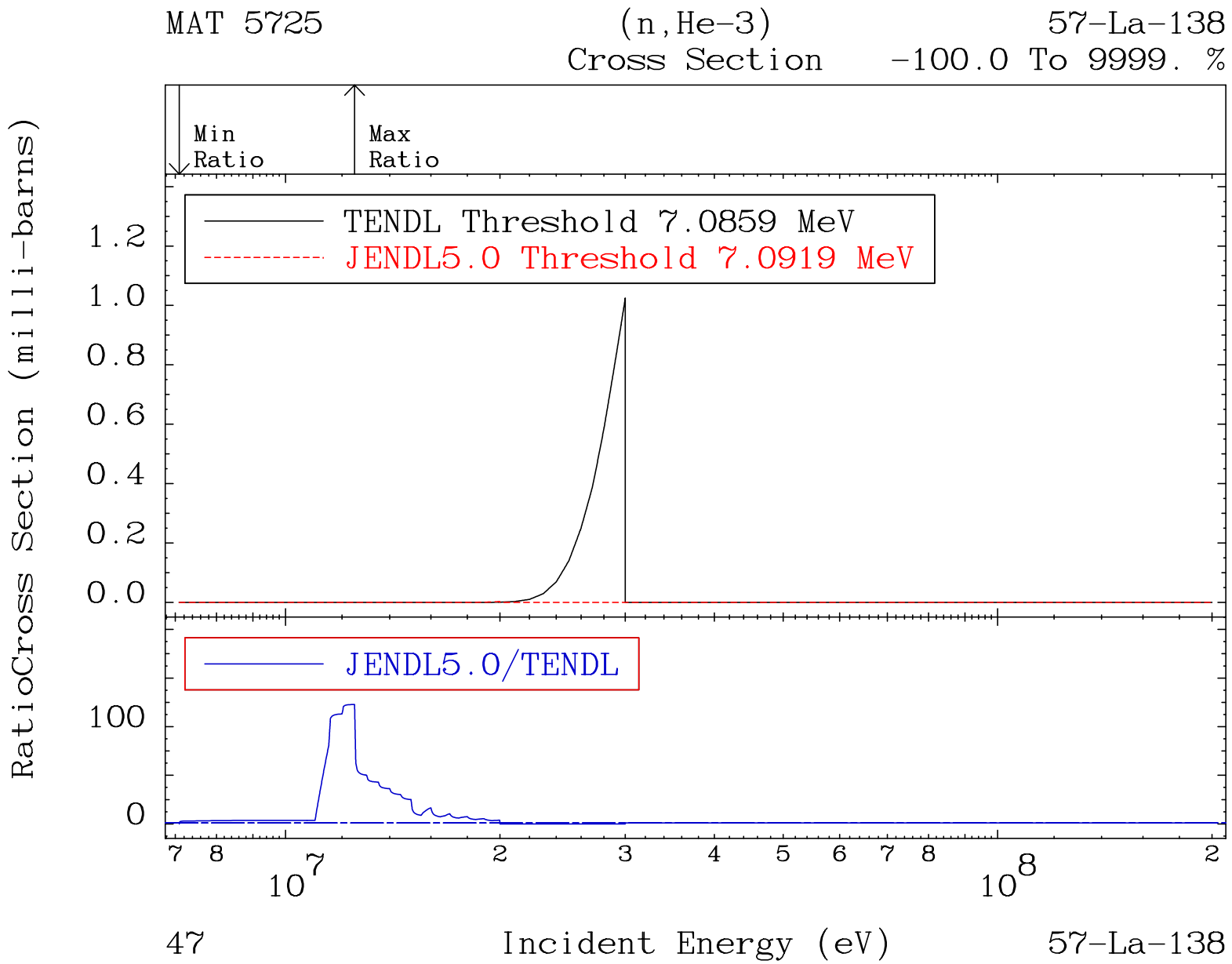

MAT 5725
(n,n') Continuum
Cross Section
57-La-138
-100.0 To 8631. %
Max
Ratio
Min
Ratio
TENDL Threshold 1.1106 MeV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
120
80
40
0
10^5
10^6
10^7
10^8
42
Incident Energy (eV)
57-La-138

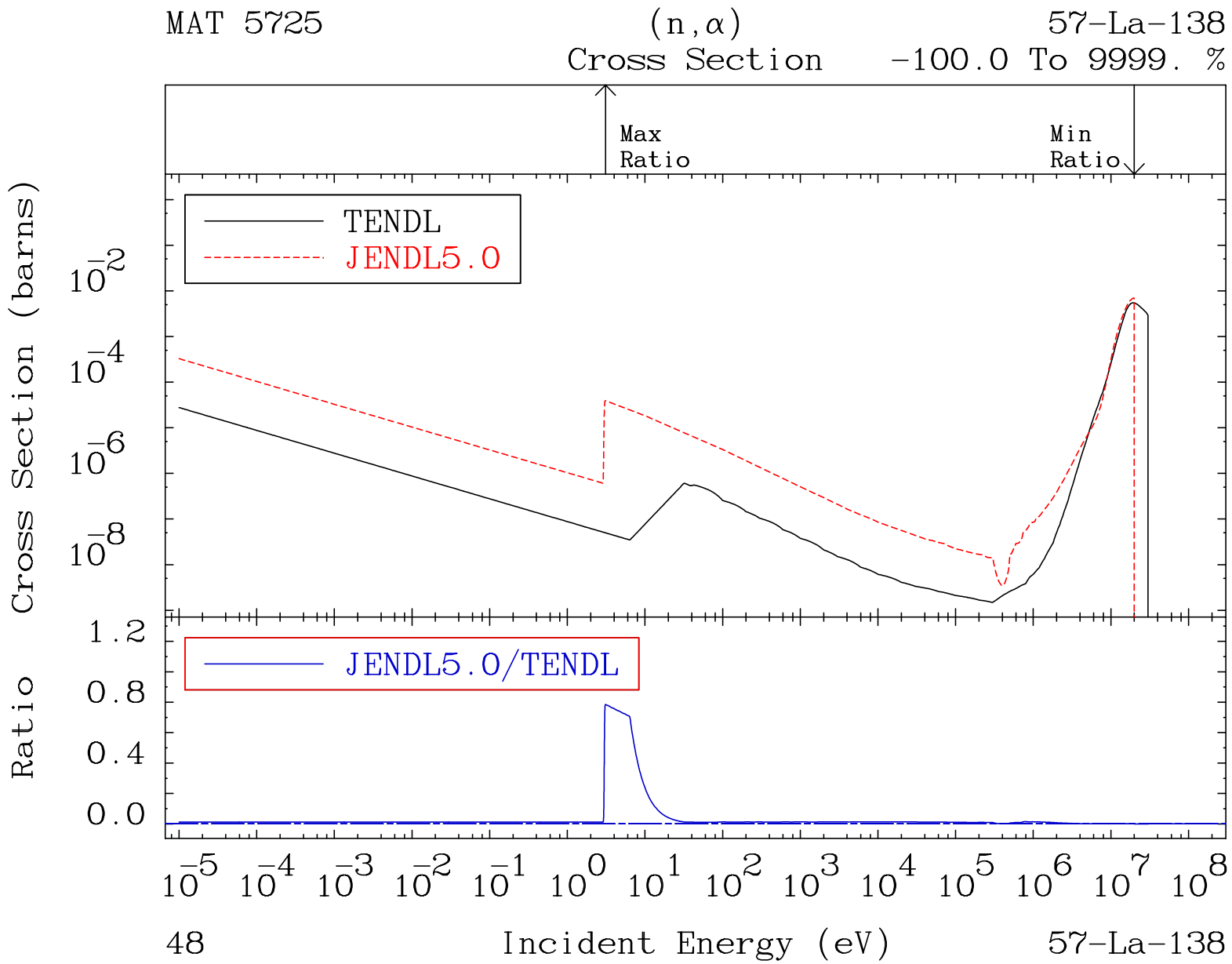

MAT 5725
(n,γ)
Cross Section
57-La-138
-100.0 To 4049. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^4
10^2
10^0
10^-2
JENDL5.0/TENDL
Ratio
60
40
20
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
43
Incident Energy (eV)
57-La-138

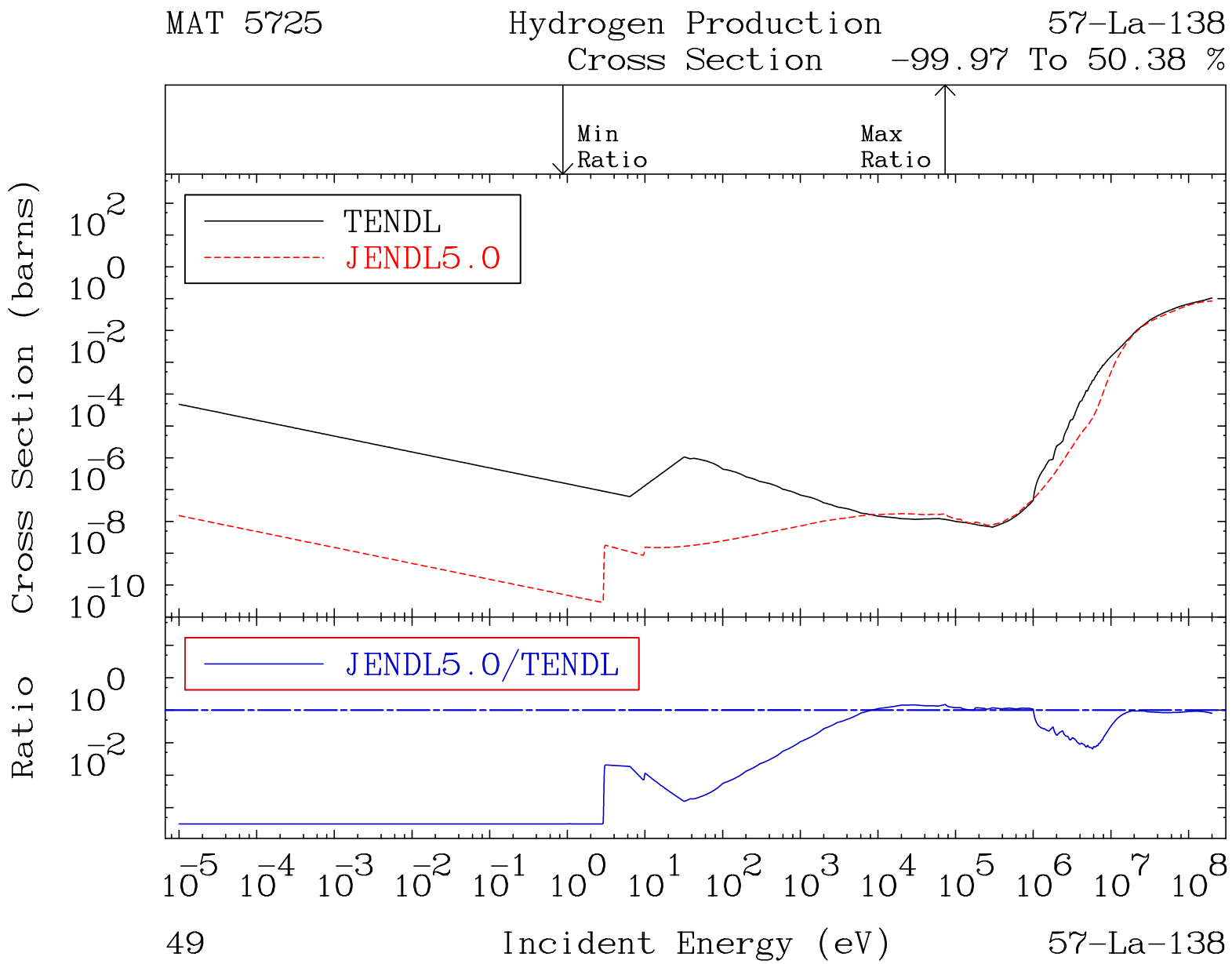

MAT 5725
(n,p)
Cross Section
57-La-138
-100.0 To 50.38 %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
44
57-La-138

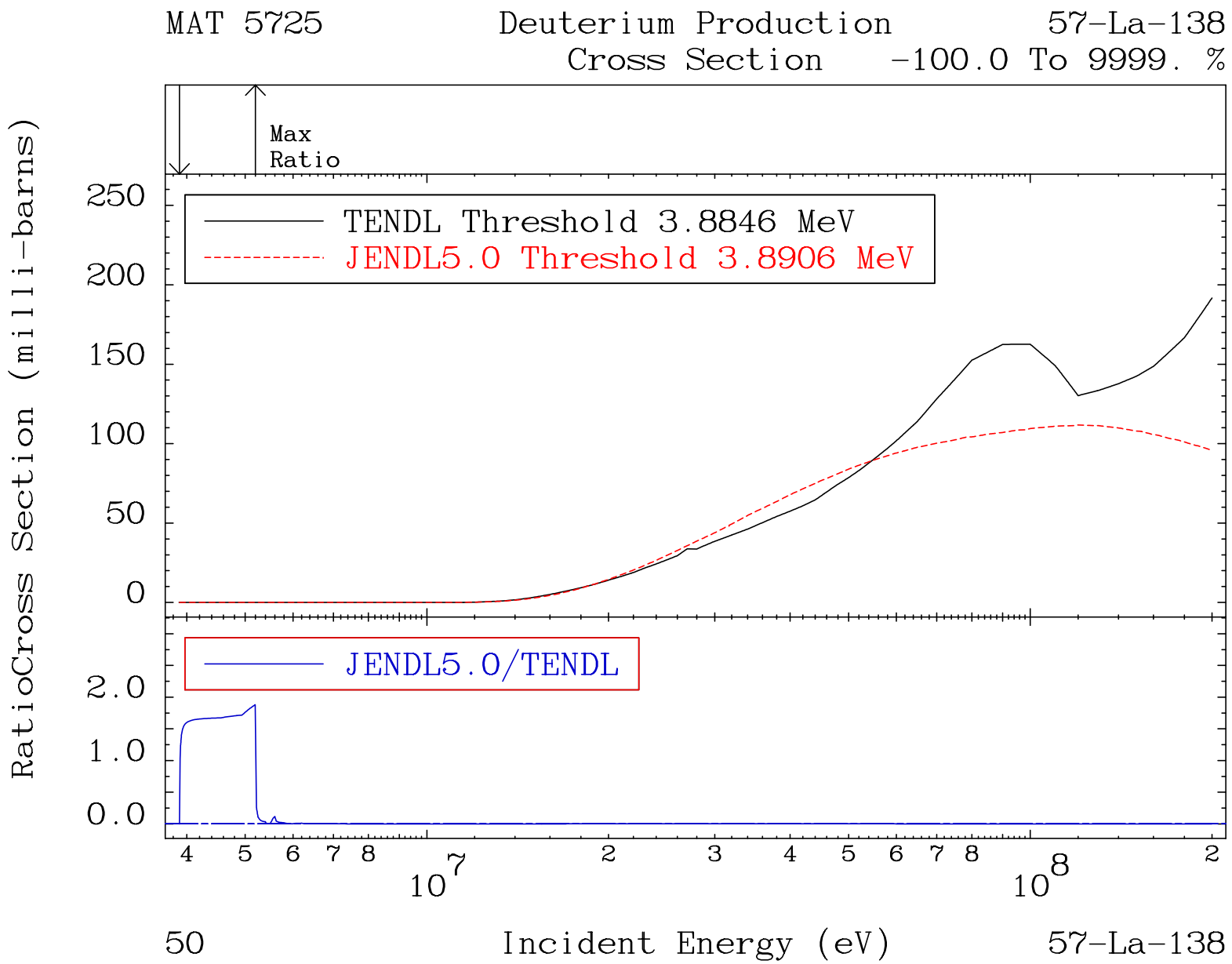

MAT 5725
(n,d)
57-La-138
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 3.8846 MeV
JENDL5.0 Threshold 3.8906 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
57-La-138

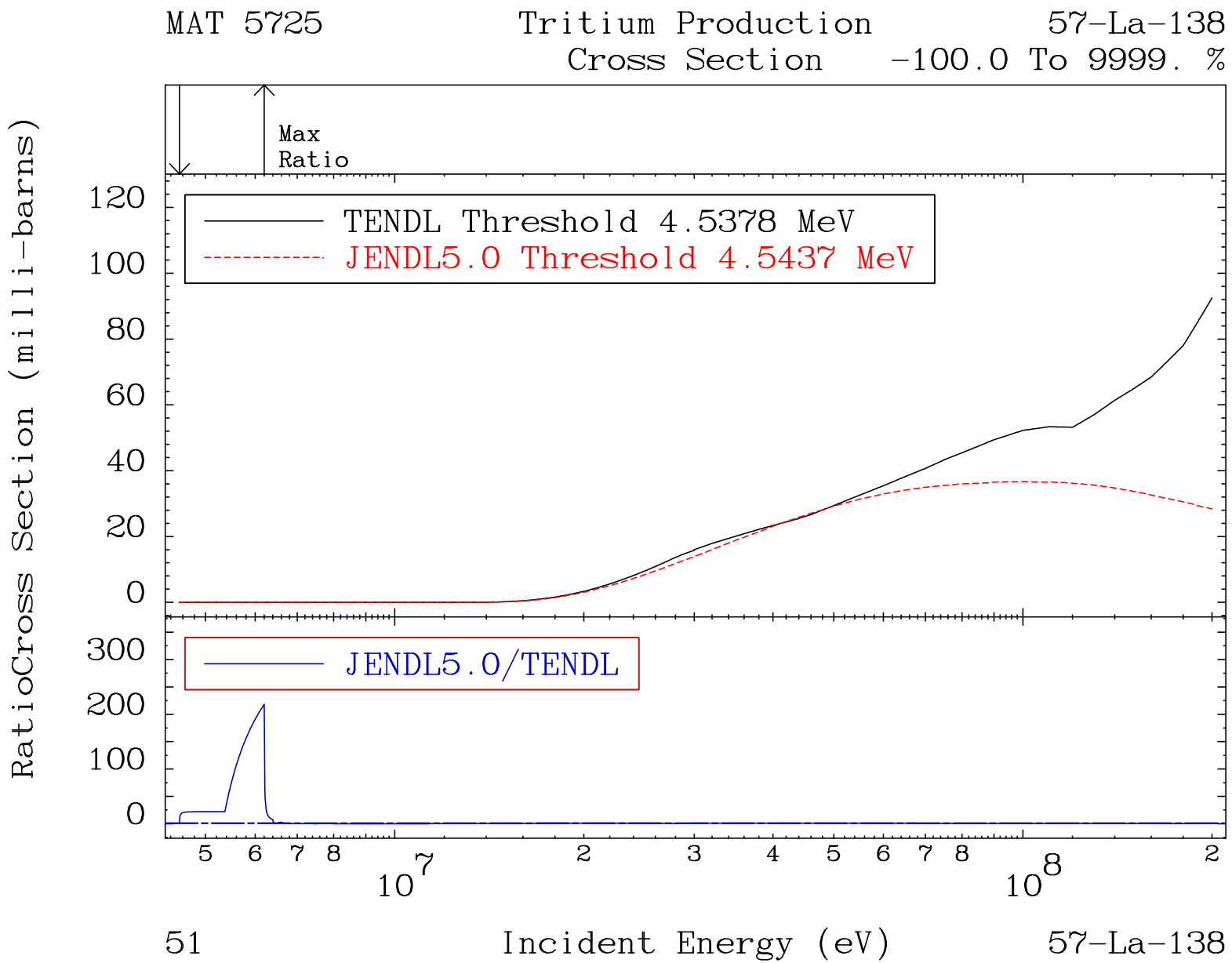

MAT 5725
(n,t)
Cross Section
57-La-138
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 4.5378 MeV
JENDL5.0 Threshold 4.5437 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
300
200
100
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
46
Incident Energy (eV)
57-La-138

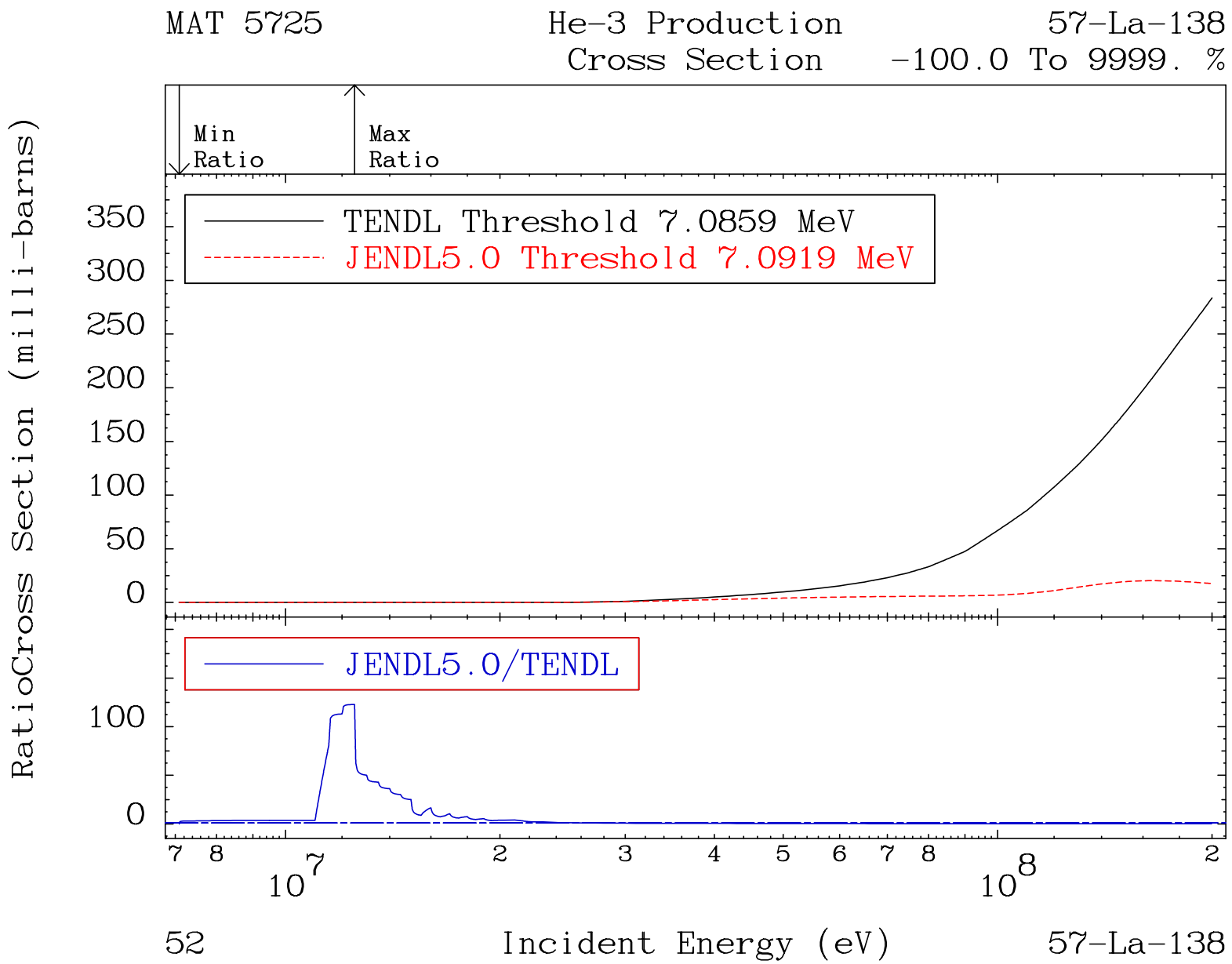

MAT 5725
(n,He-3)
Cross Section
57-La-138
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.0859 MeV
JENDL5.0 Threshold 7.0919 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
100
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
47
Incident Energy (eV)
57-La-138

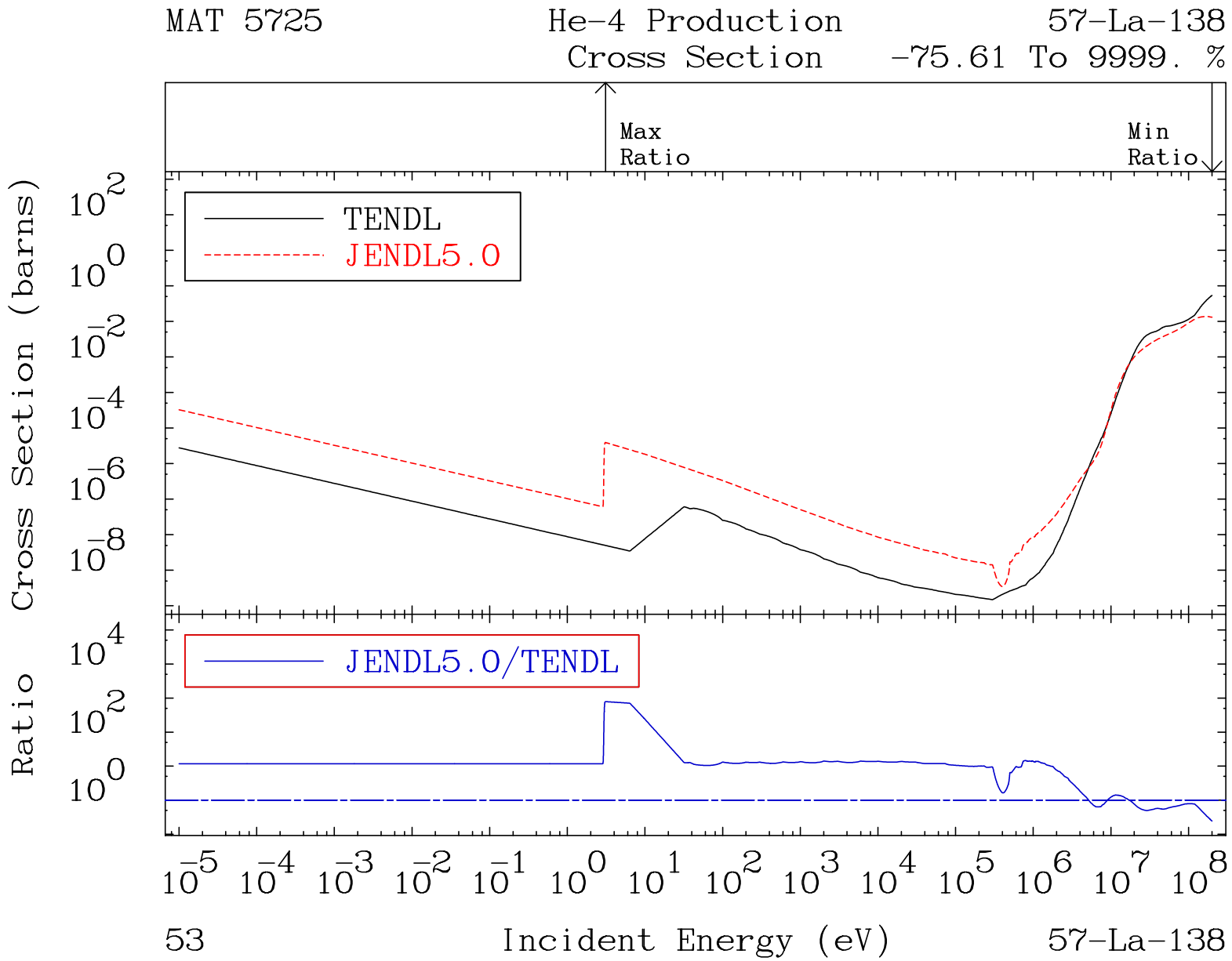

MAT 5725
(n,α)
Cross Section
57-La-138
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
57-La-138

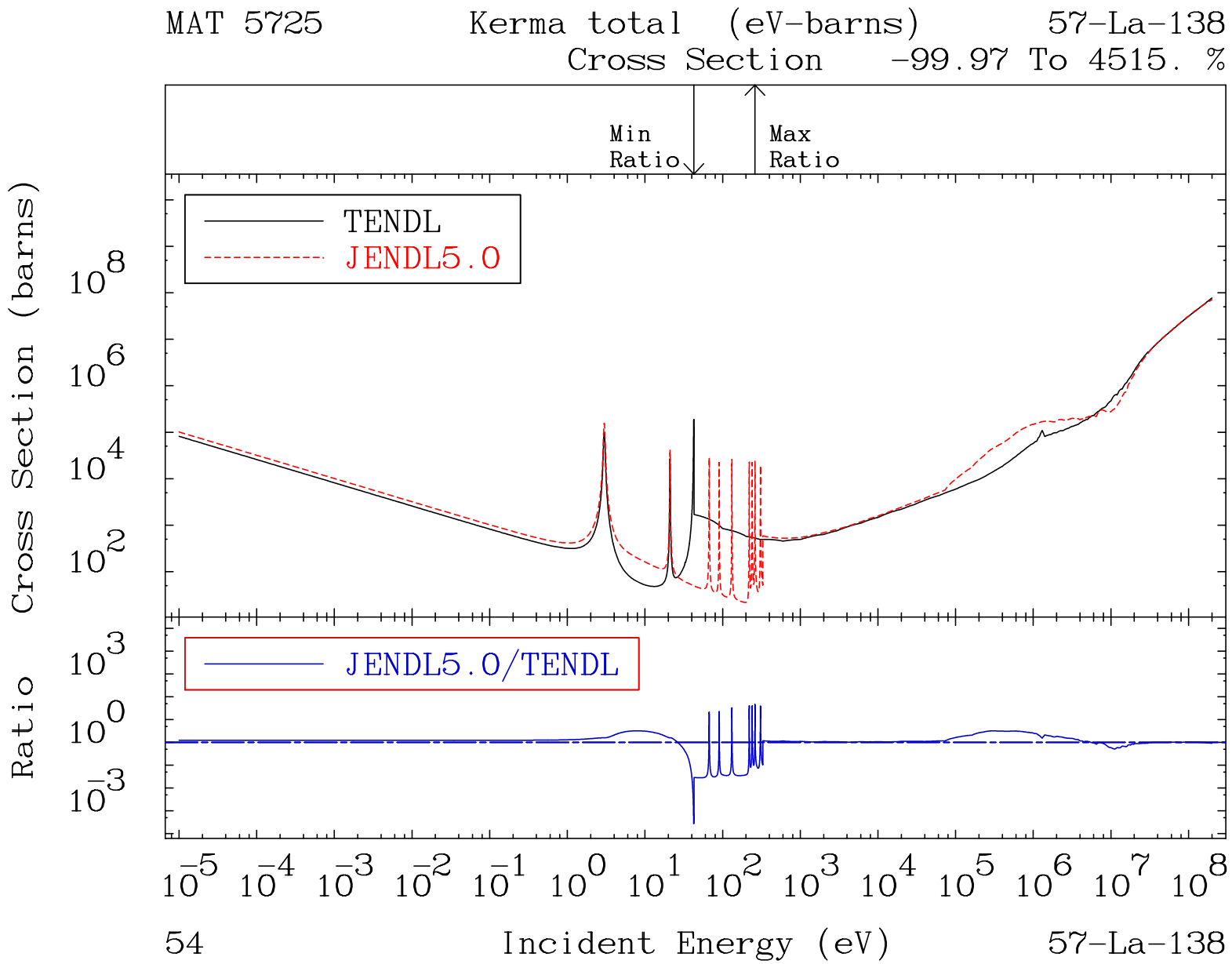

MAT 5725
Hydrogen Production
57-La-138
Cross Section
-99.97 To 50.38 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
49
57-La-138

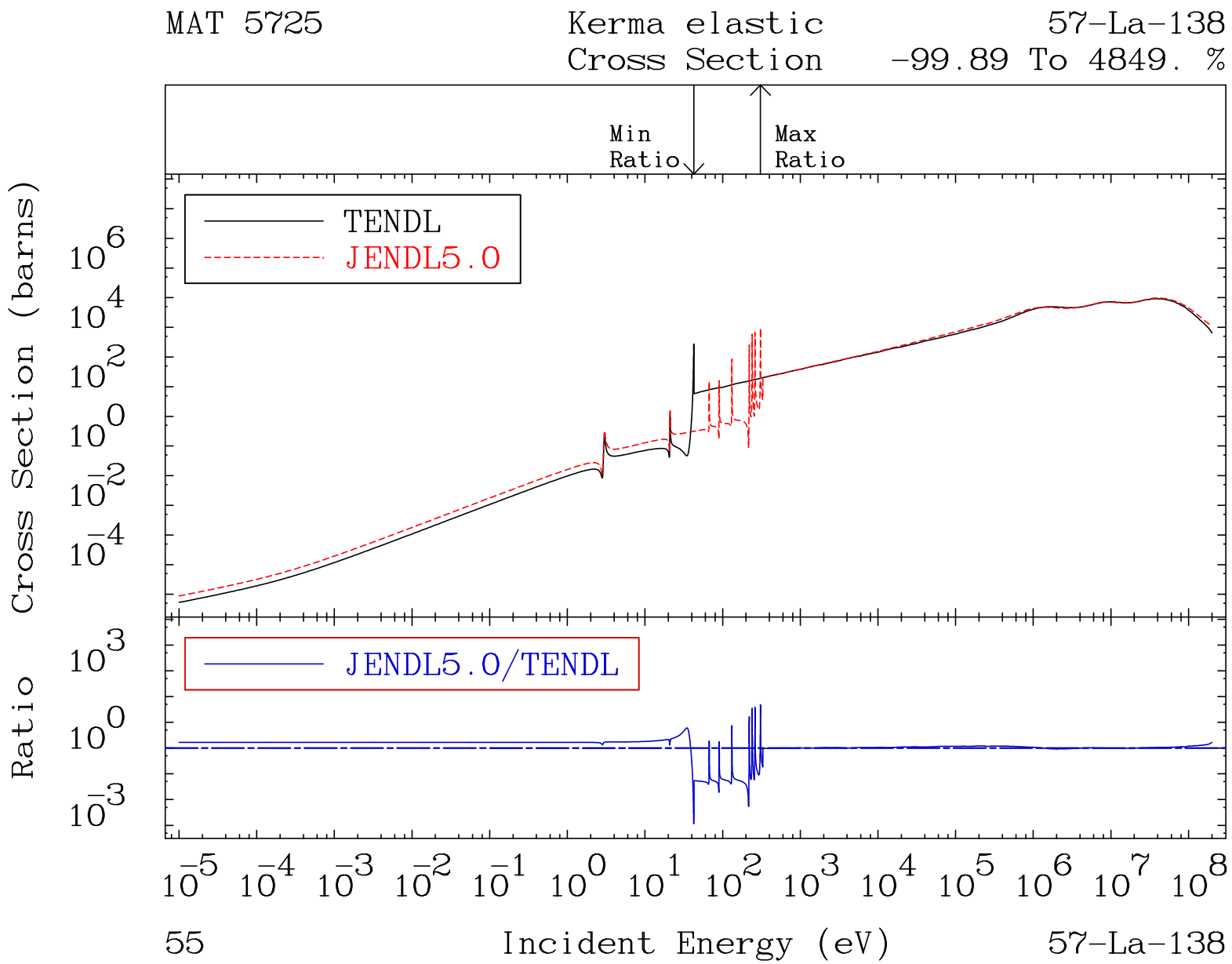

MAT 5725
Deuterium Production
57-La-138
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 3.8846 MeV
JENDL5.0 Threshold 3.8906 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
50
Incident Energy (eV)
57-La-138

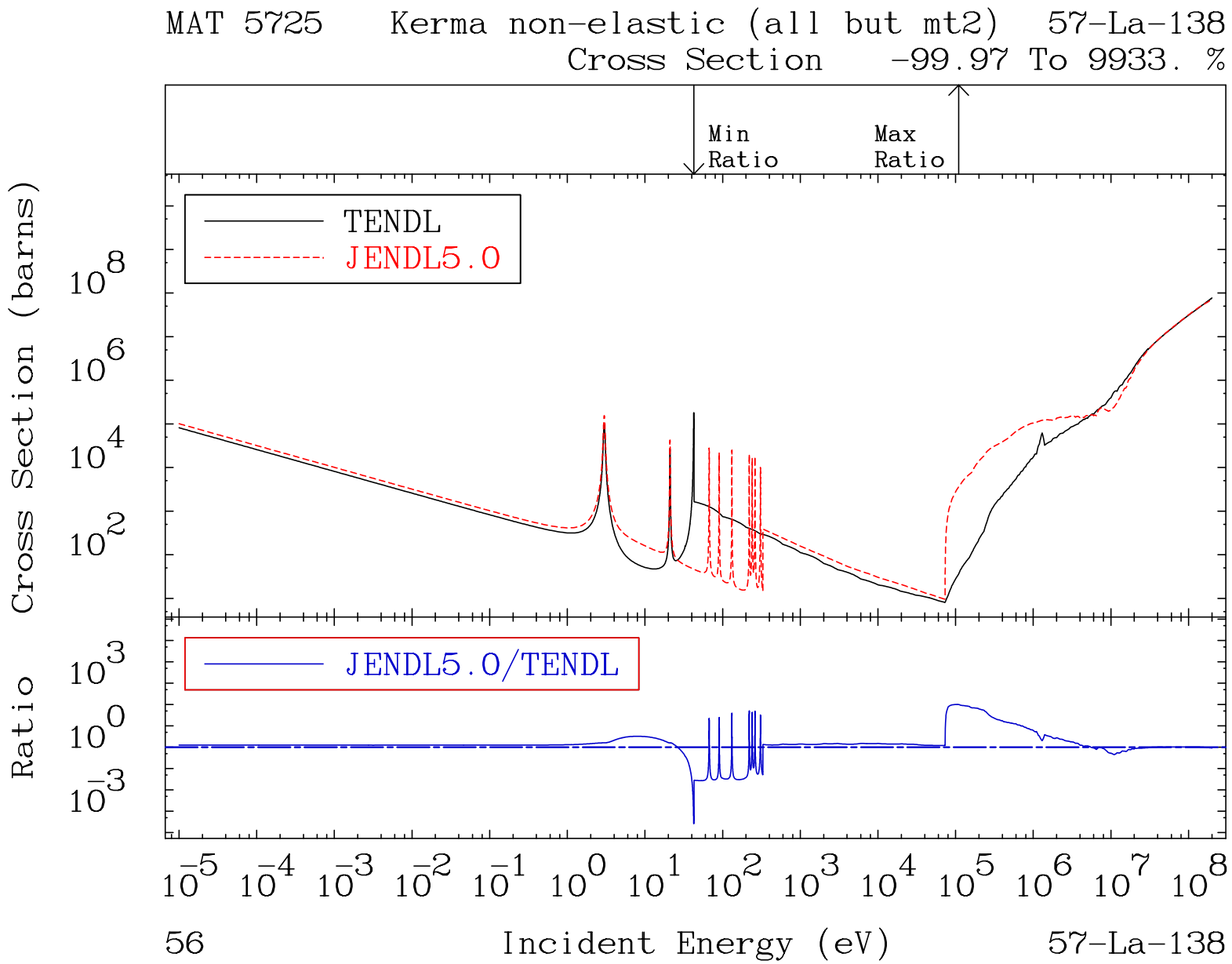

MAT 5725
Tritium Production
57-La-138
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 4.5378 MeV
JENDL5.0 Threshold 4.5437 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
300
200
100
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
51
Incident Energy (eV)
57-La-138

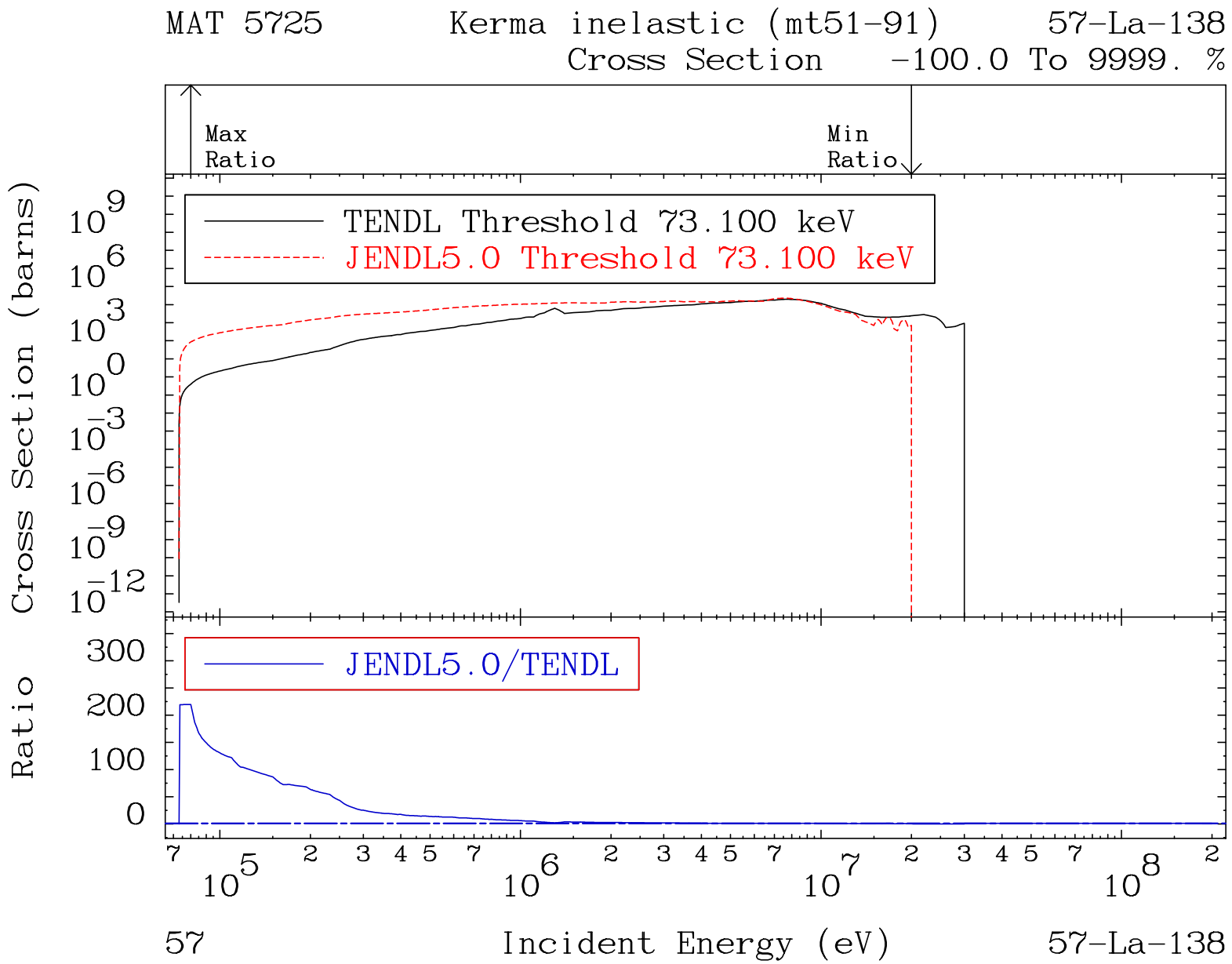

MAT 5725
He-3 Production
57-La-138
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.0859 MeV
JENDL5.0 Threshold 7.0919 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
100
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
52
Incident Energy (eV)
57-La-138

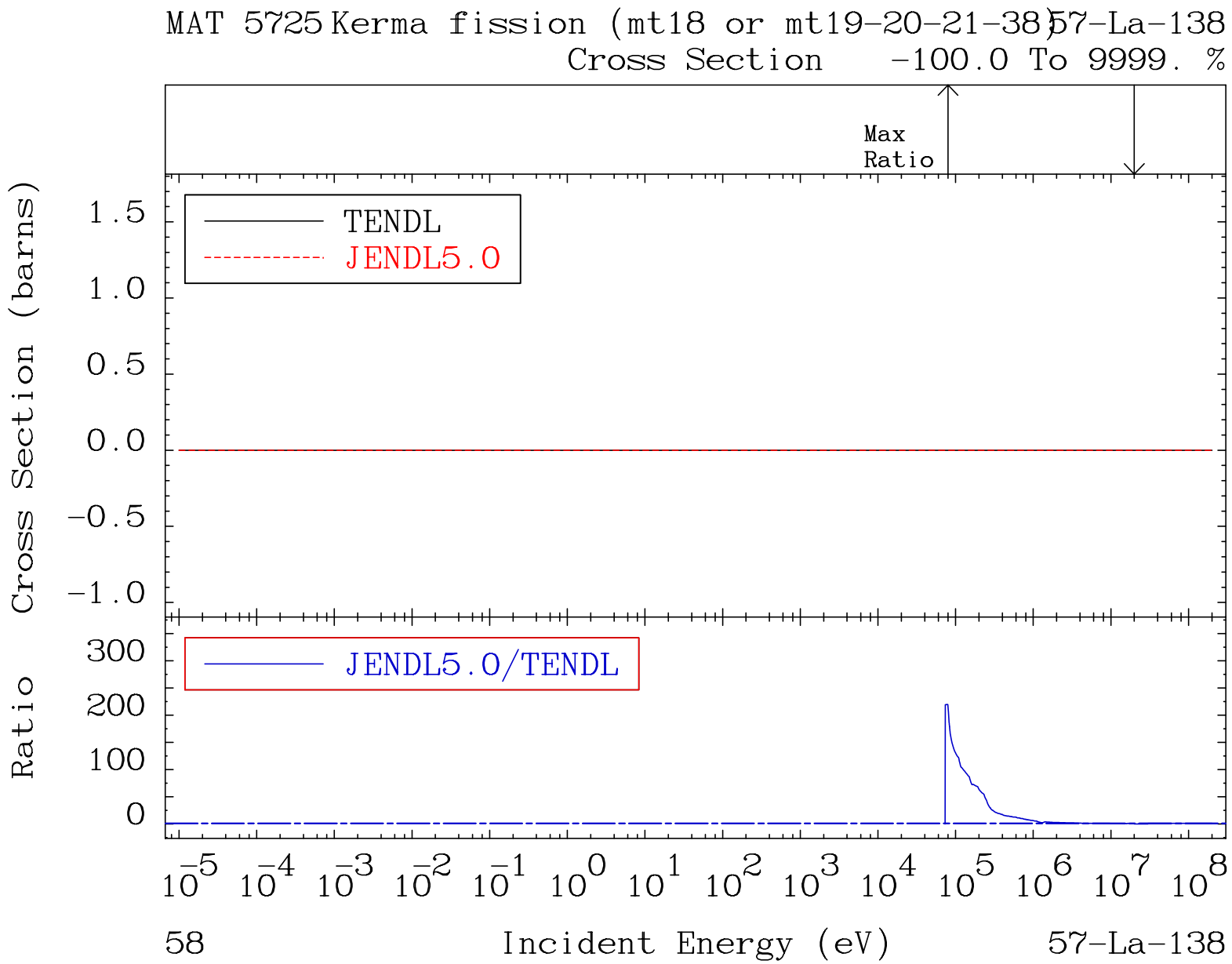

MAT 5725
He-4 Production
Cross Section
57-La-138
-75.61 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
57-La-138

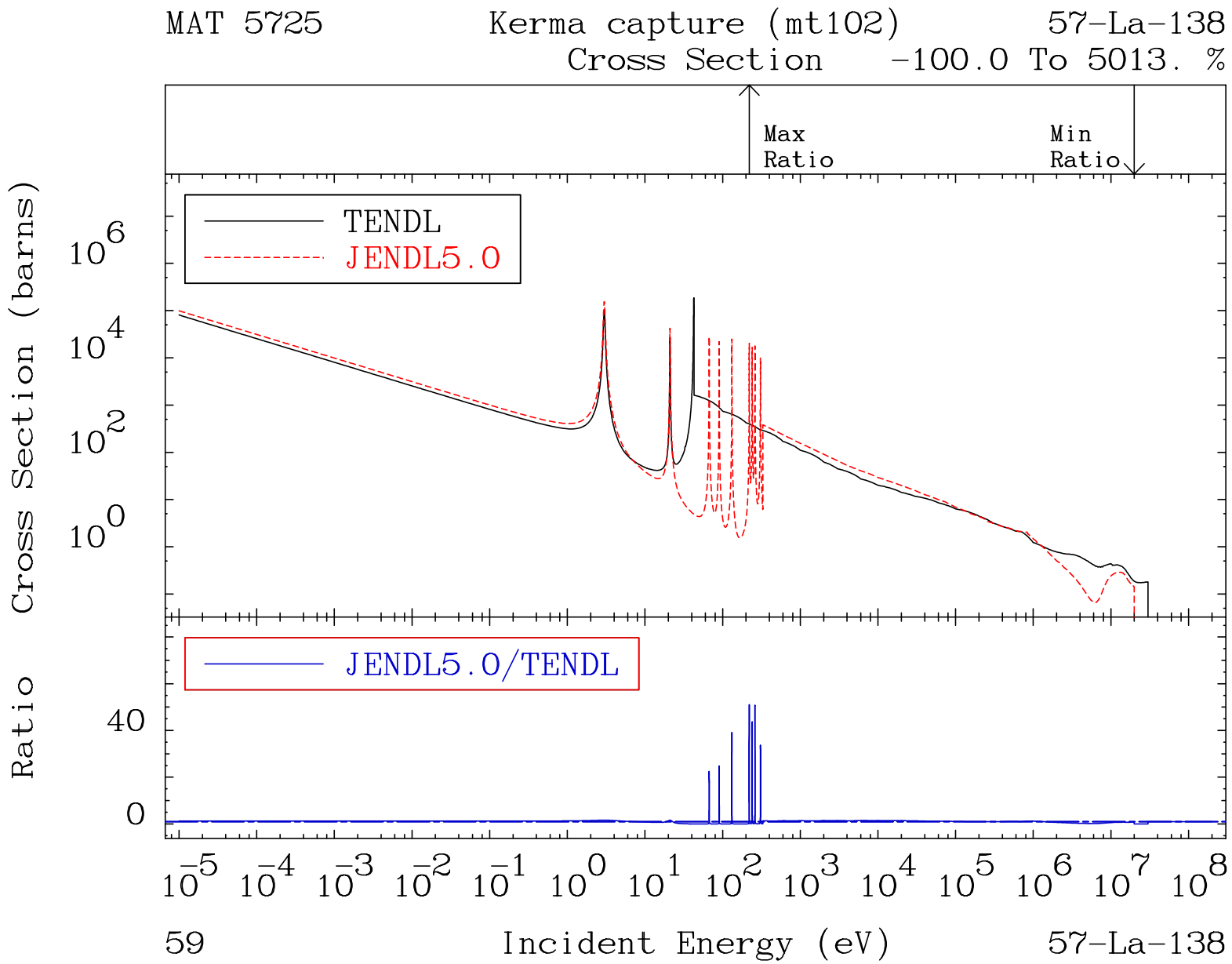

MAT 5725
Kerma total (eV-barns)
57-La-138
Cross Section -99.97 To 4515. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
57-La-138

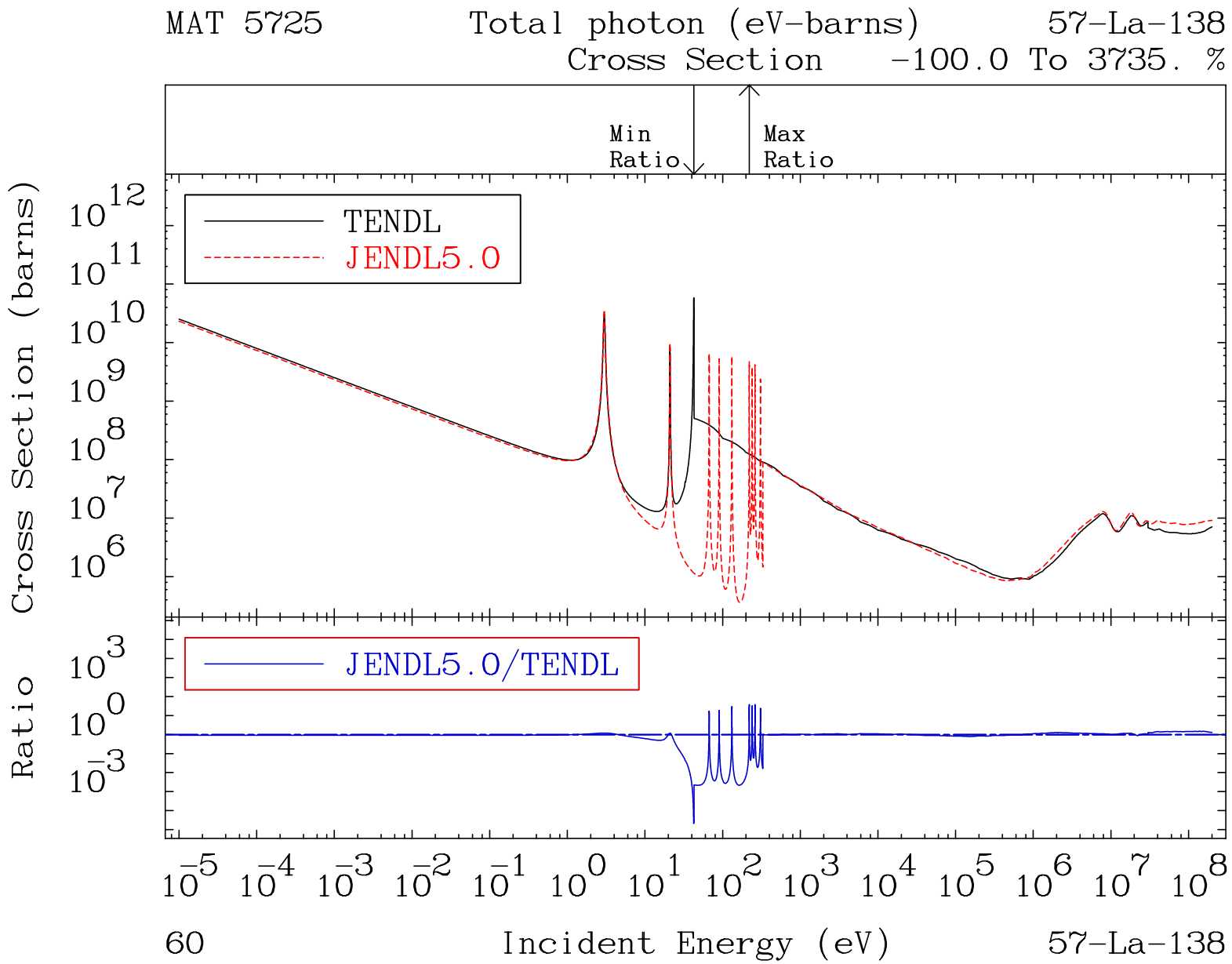

MAT 5725
Kerma elastic
Cross Section
57-La-138
-99.89 To 4849. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
57-La-138

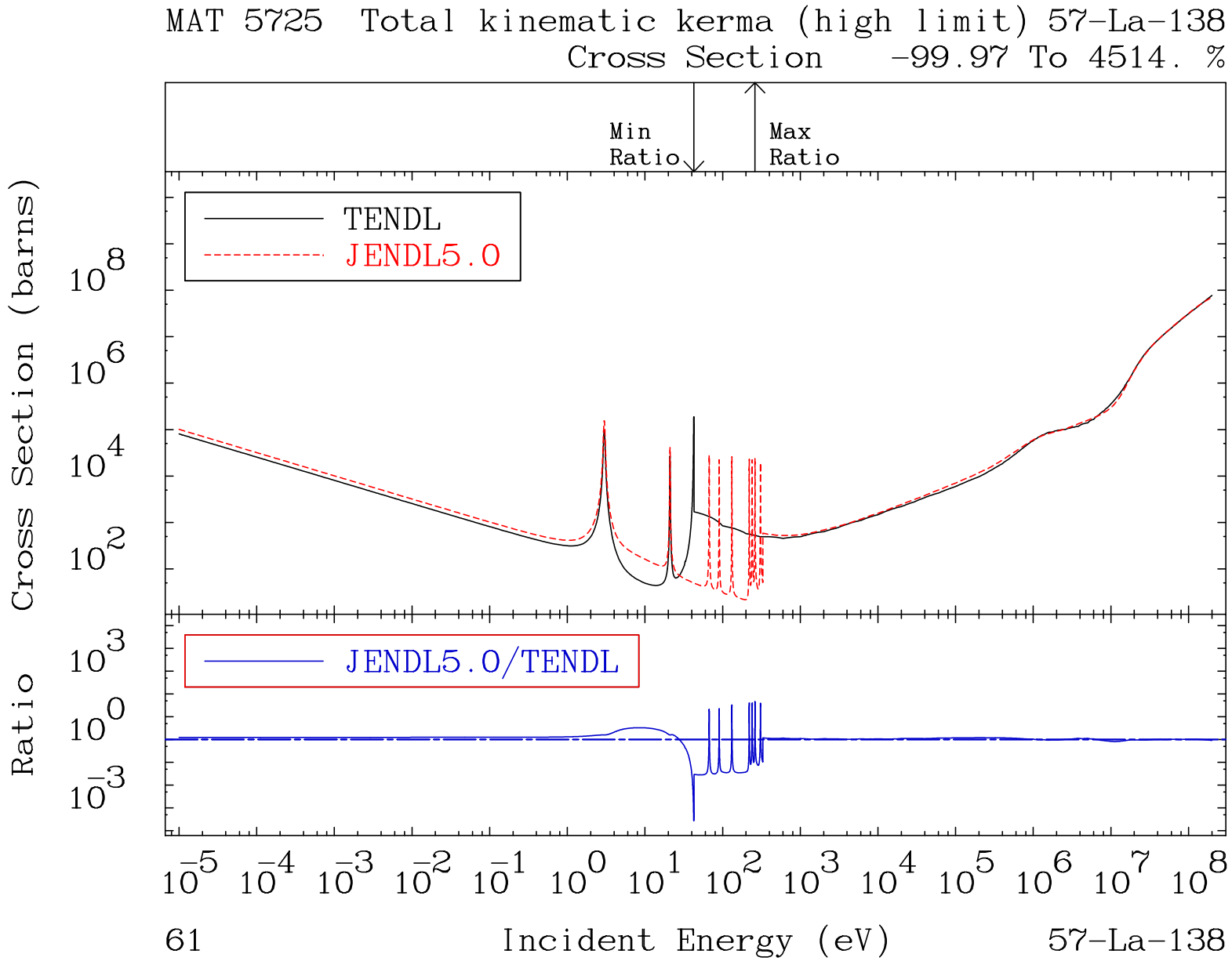

MAT 5725 Kerma non-elastic (all but mt2) 57-La-138
Cross Section -99.97 To 9933. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
57-La-138

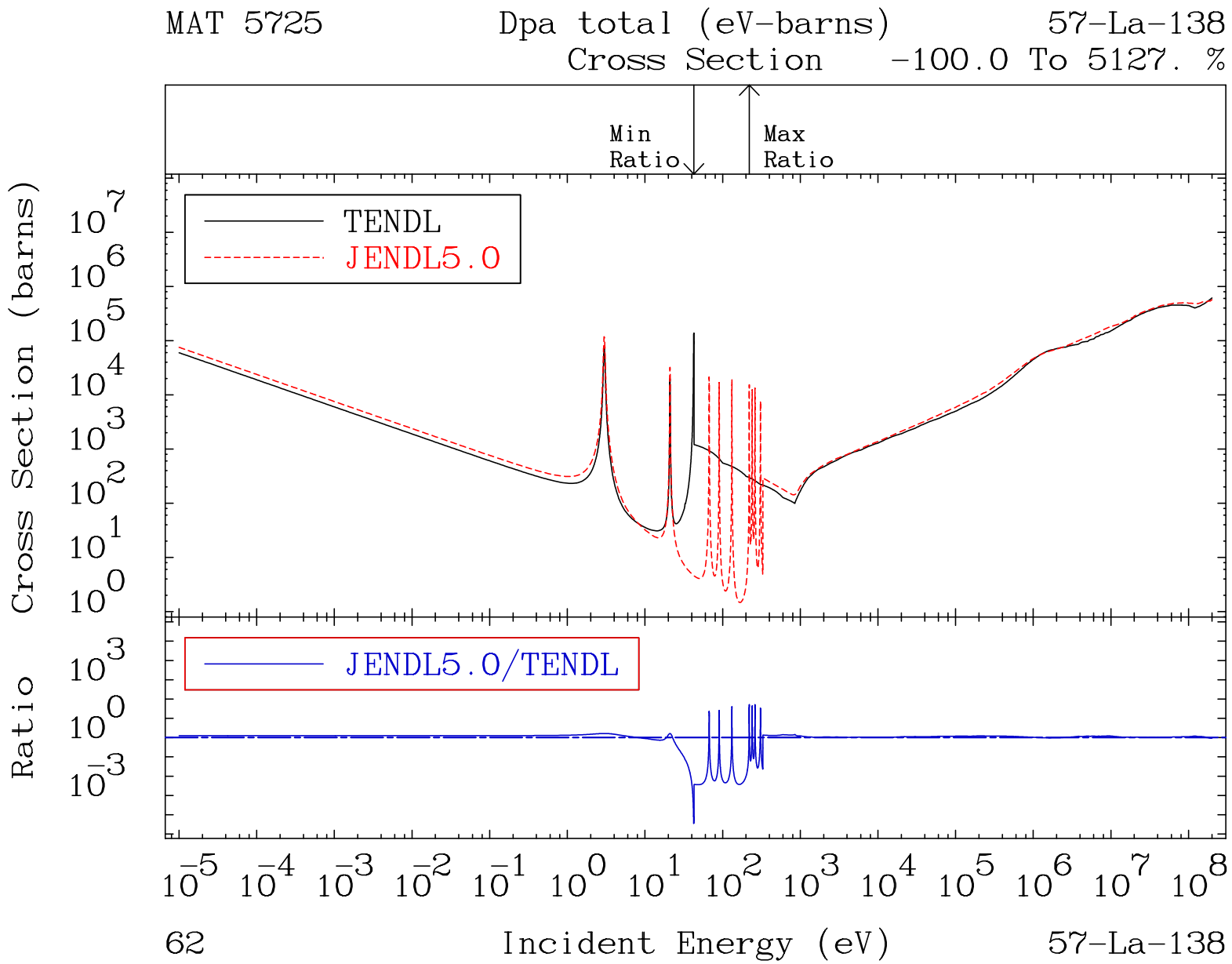

MAT 5725
Kerma inelastic (mt51-91)
57-La-138
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 73.100 keV
JENDL5.0 Threshold 73.100 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
57
57-La-138

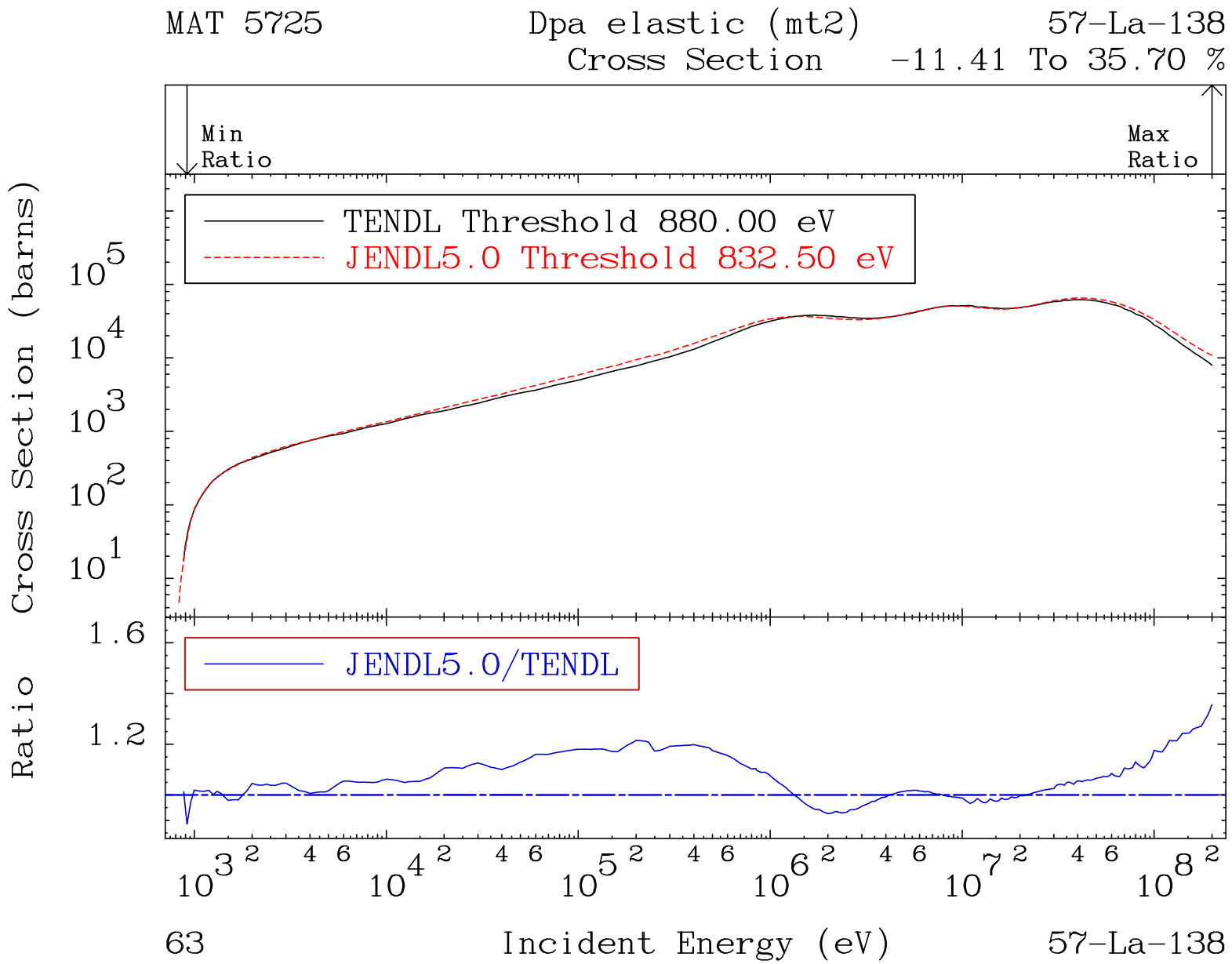

MAT 5725 Kerma fission (mt18 or mt19-20-21-38) 57-La-138
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
300
200
100
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
58
57-La-138

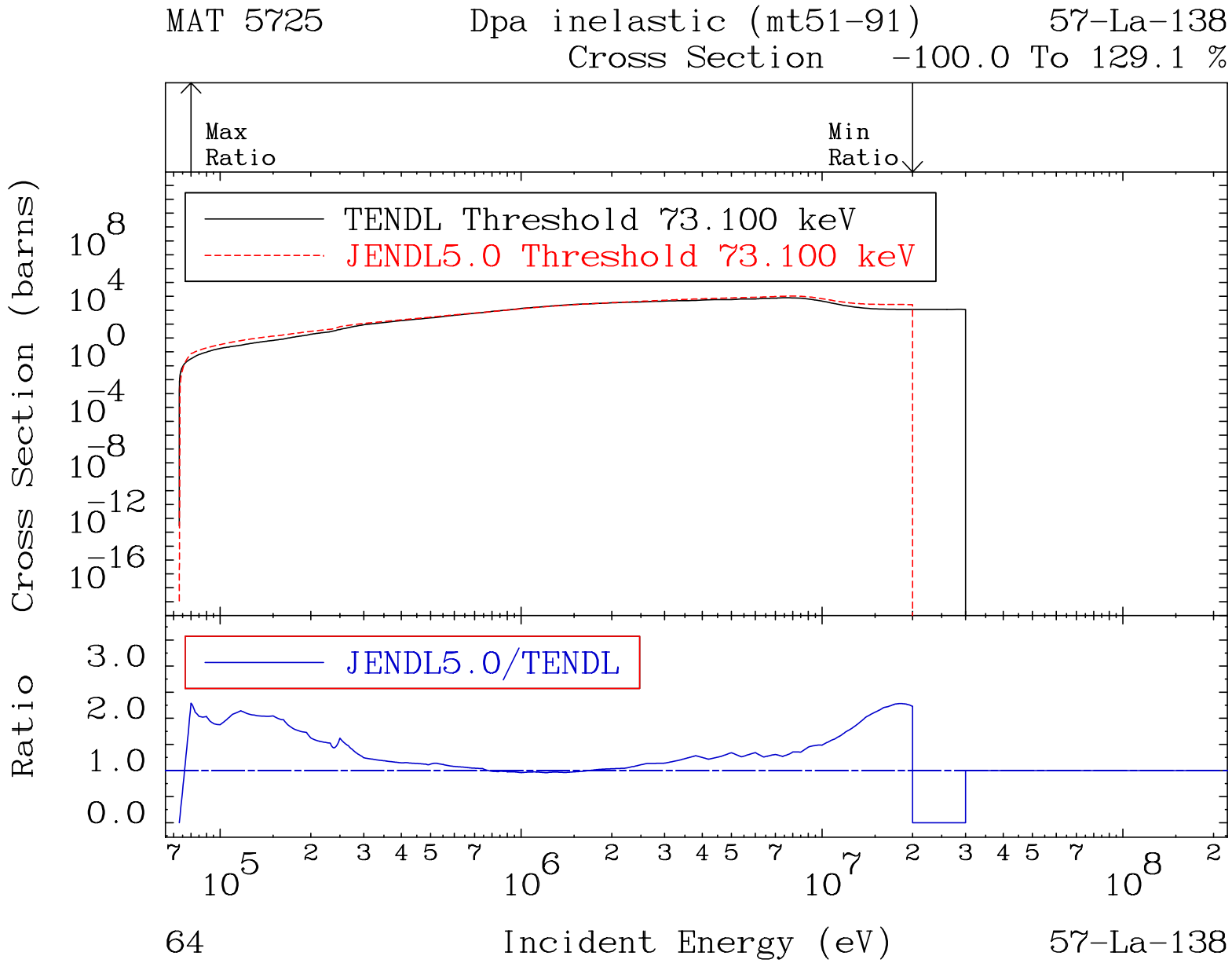

MAT 5725
Kerma capture (mt102)
57-La-138
Cross Section -100.0 To 5013. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^6
10^4
10^2
10^0
JENDL5.0/TENDL
Ratio
40
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
59
Incident Energy (eV)
57-La-138

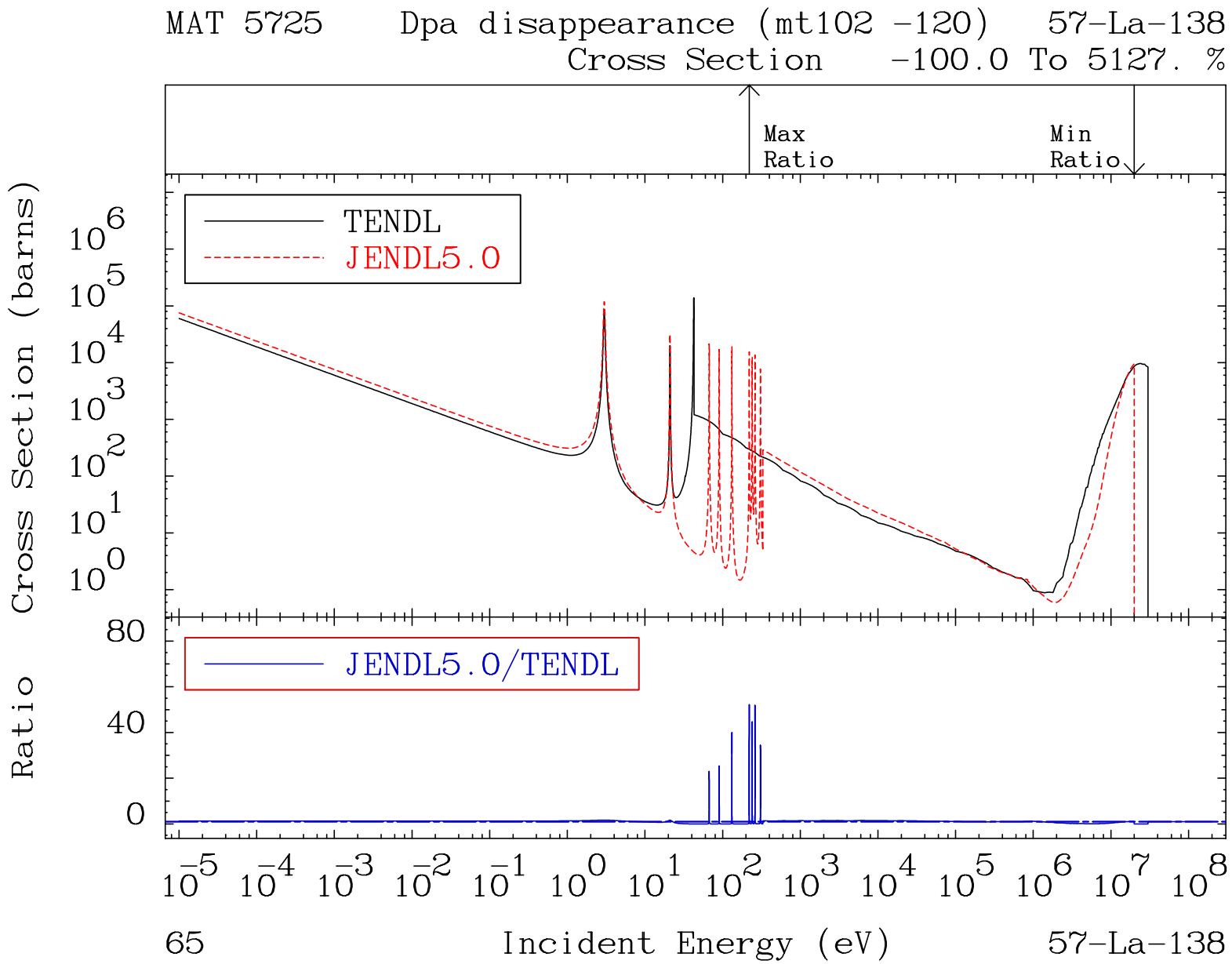

MAT 5725
Total photon (eV-barns)
57-La-138
Cross Section -100.0 To 3735. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
57-La-138

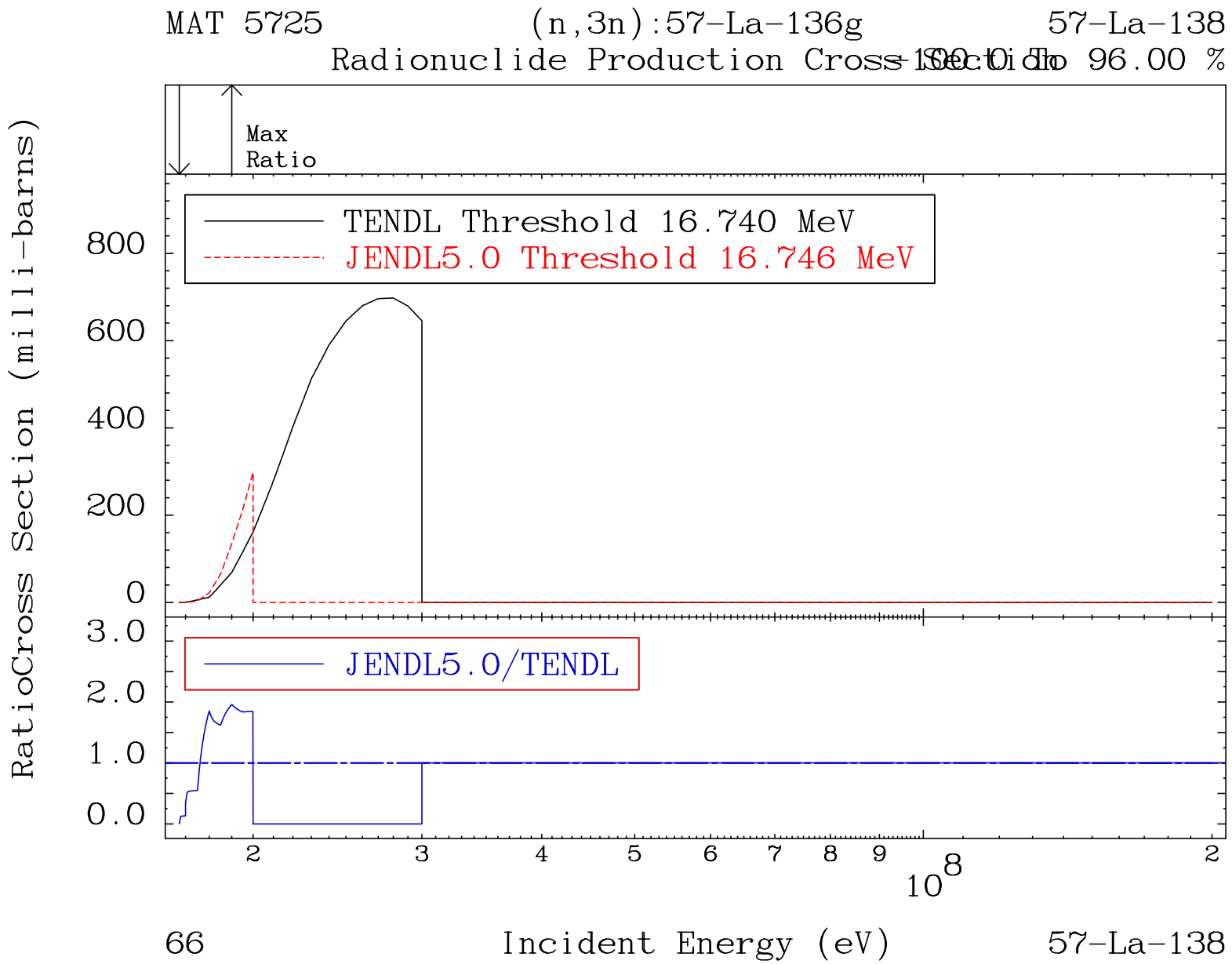

MAT 5725 Total kinematic kerma (high limit) 57-La-138
Cross Section -99.97 To 4514. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
57-La-138

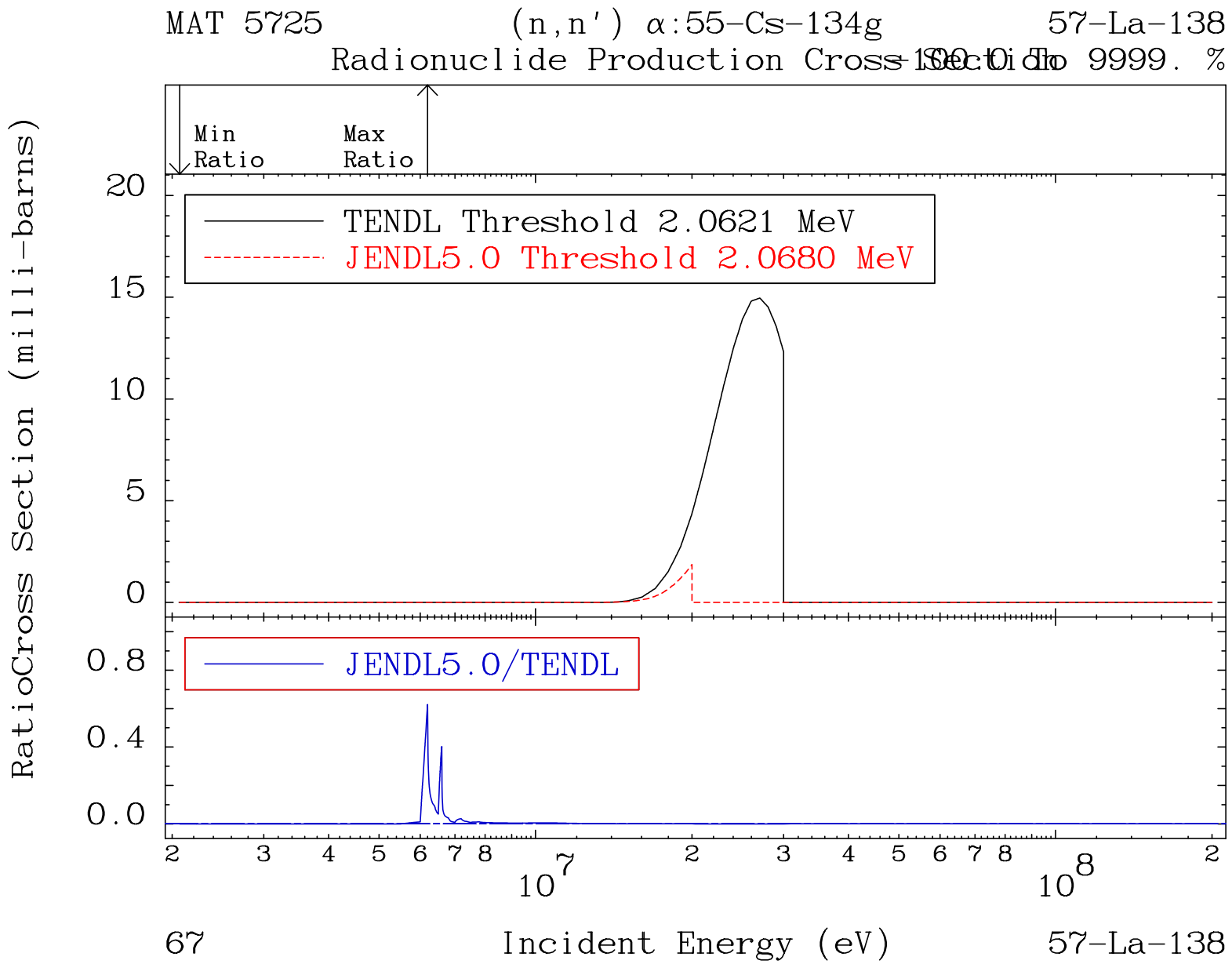

MAT 5725
Dpa total (eV-barns)
57-La-138
Cross Section -100.0 To 5127. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
57-La-138

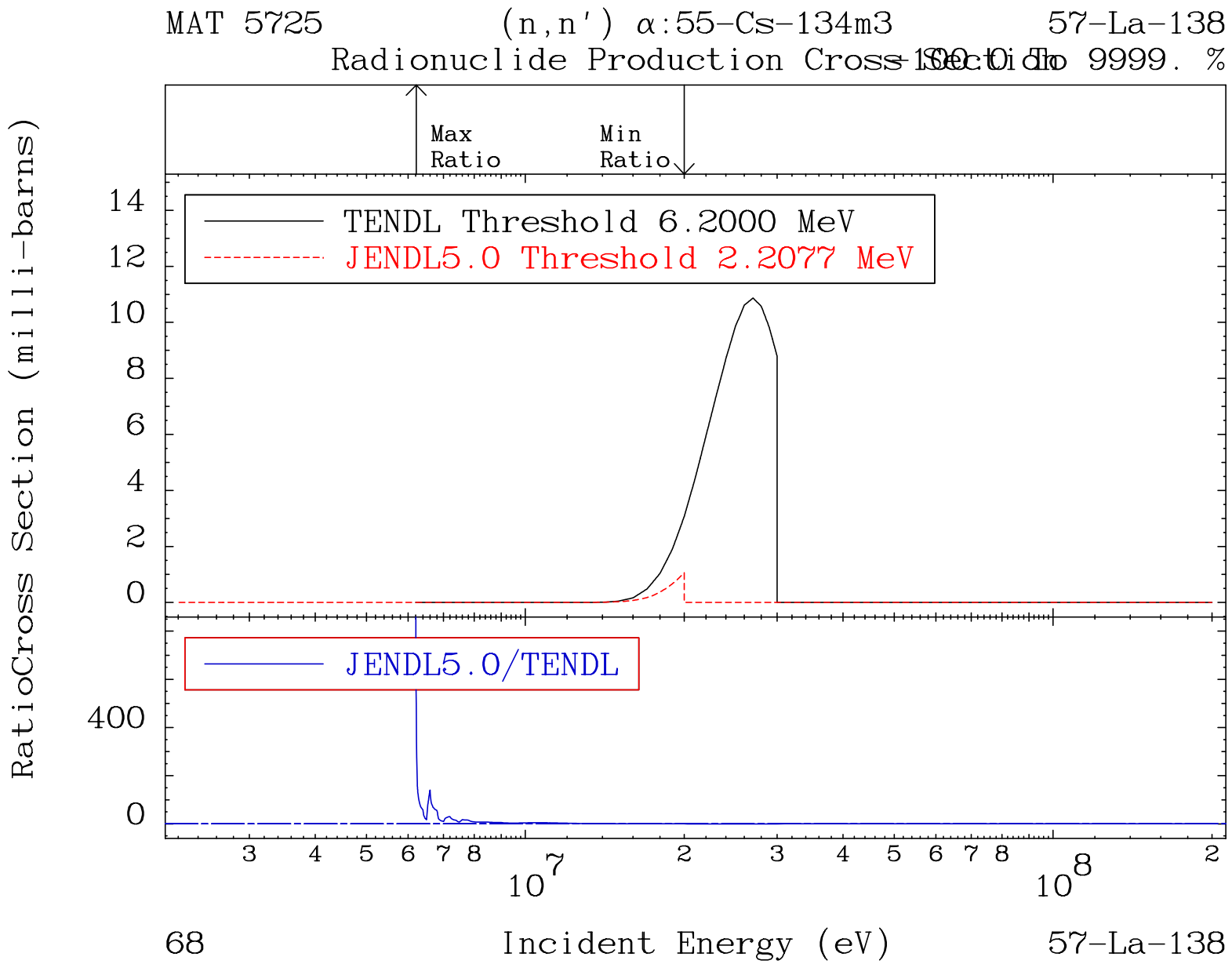

MAT 5725
Dpa elastic (mt2)
Cross Section
57-La-138
-11.41 To 35.70 %
Min
Ratio
Max
Ratio
TENDL Threshold 880.00 eV
JENDL5.0 Threshold 832.50 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
57-La-138

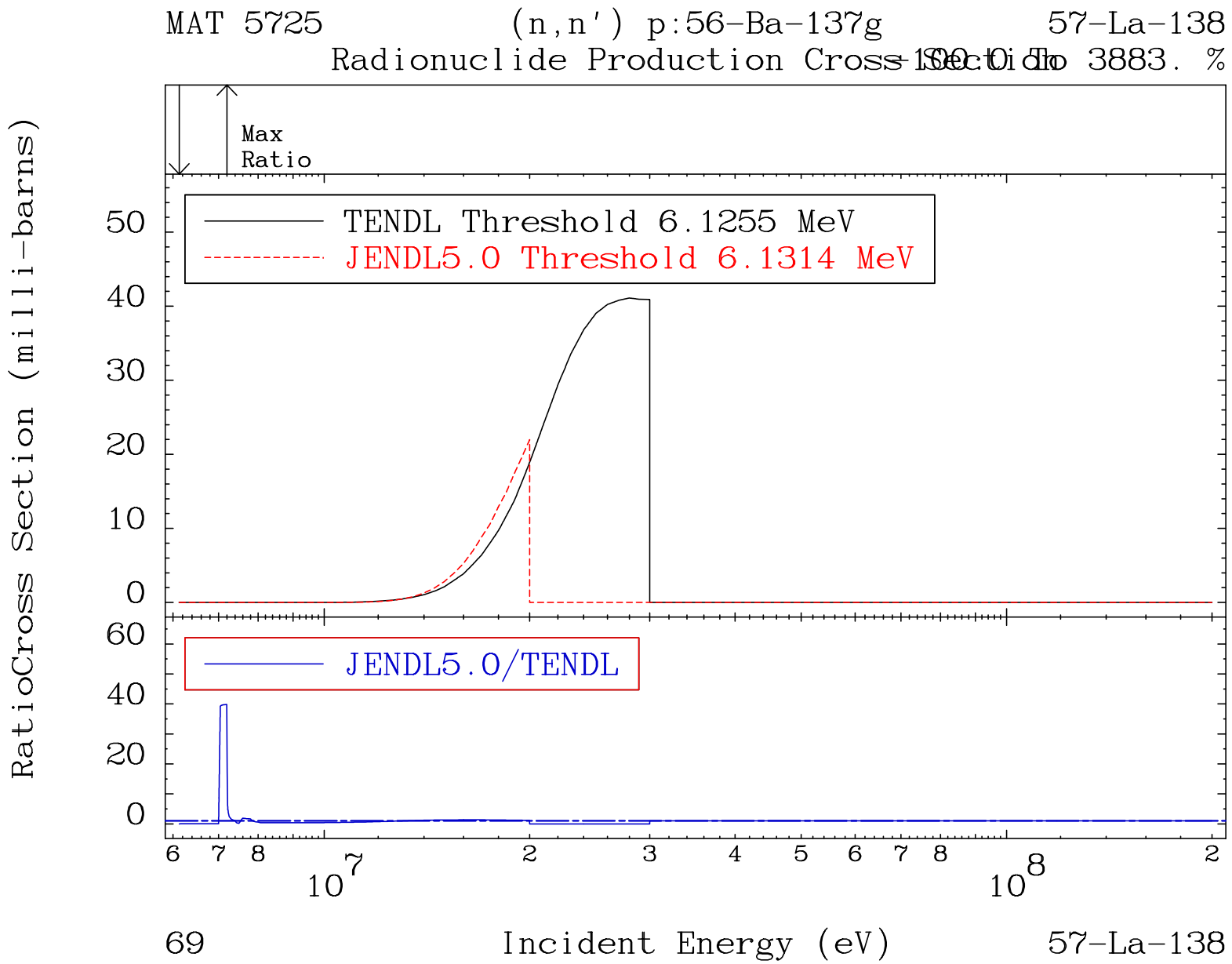

MAT 5725
Dpa inelastic (mt51-91)
57-La-138
Cross Section
-100.0 To 129.1 %
Max Ratio
Min Ratio
TENDL Threshold 73.100 keV
JENDL5.0 Threshold 73.100 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
64
57-La-138

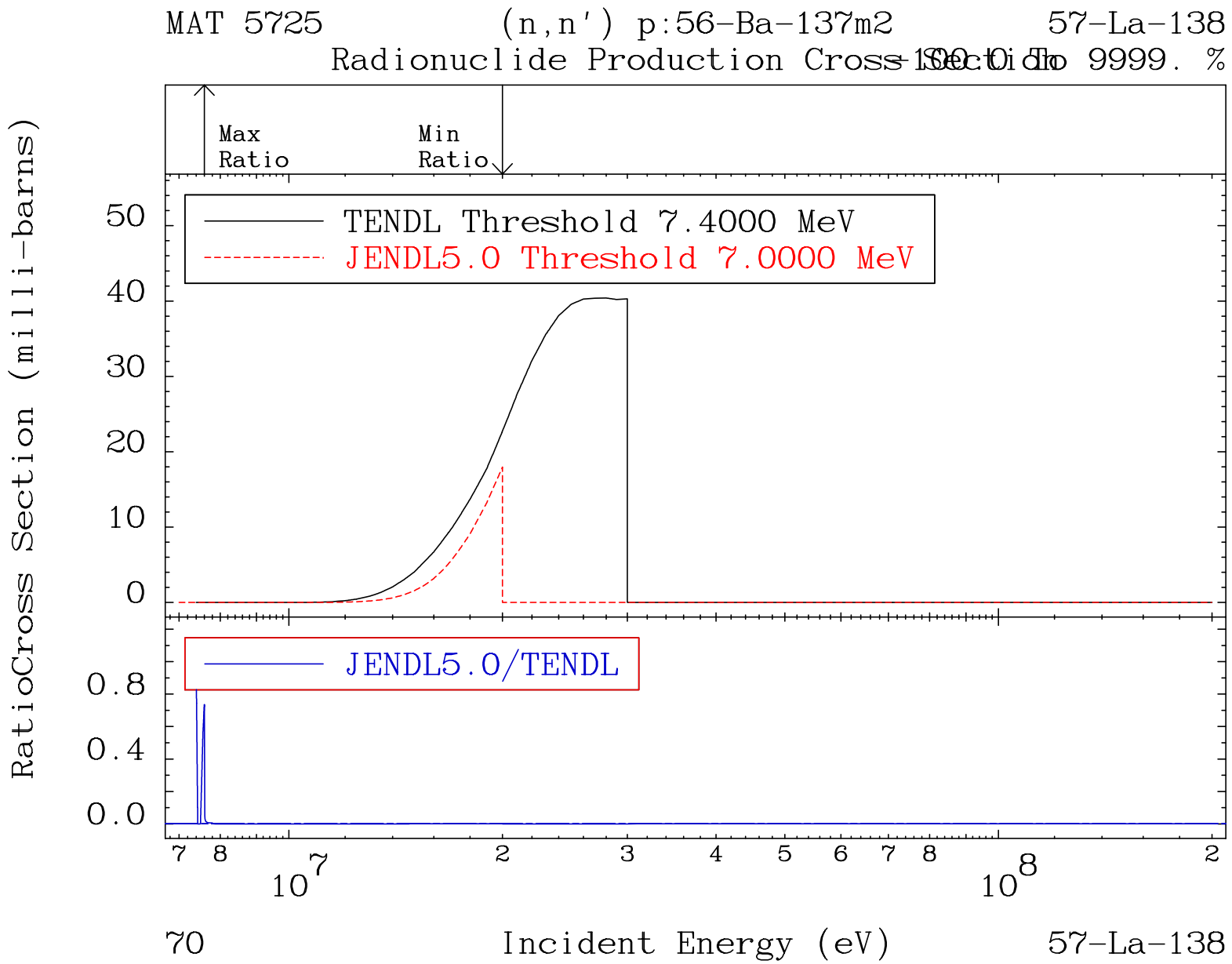

MAT 5725 Dpa disappearance (mt102 -120) 57-La-138
Cross Section -100.0 To 5127. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
57-La-138

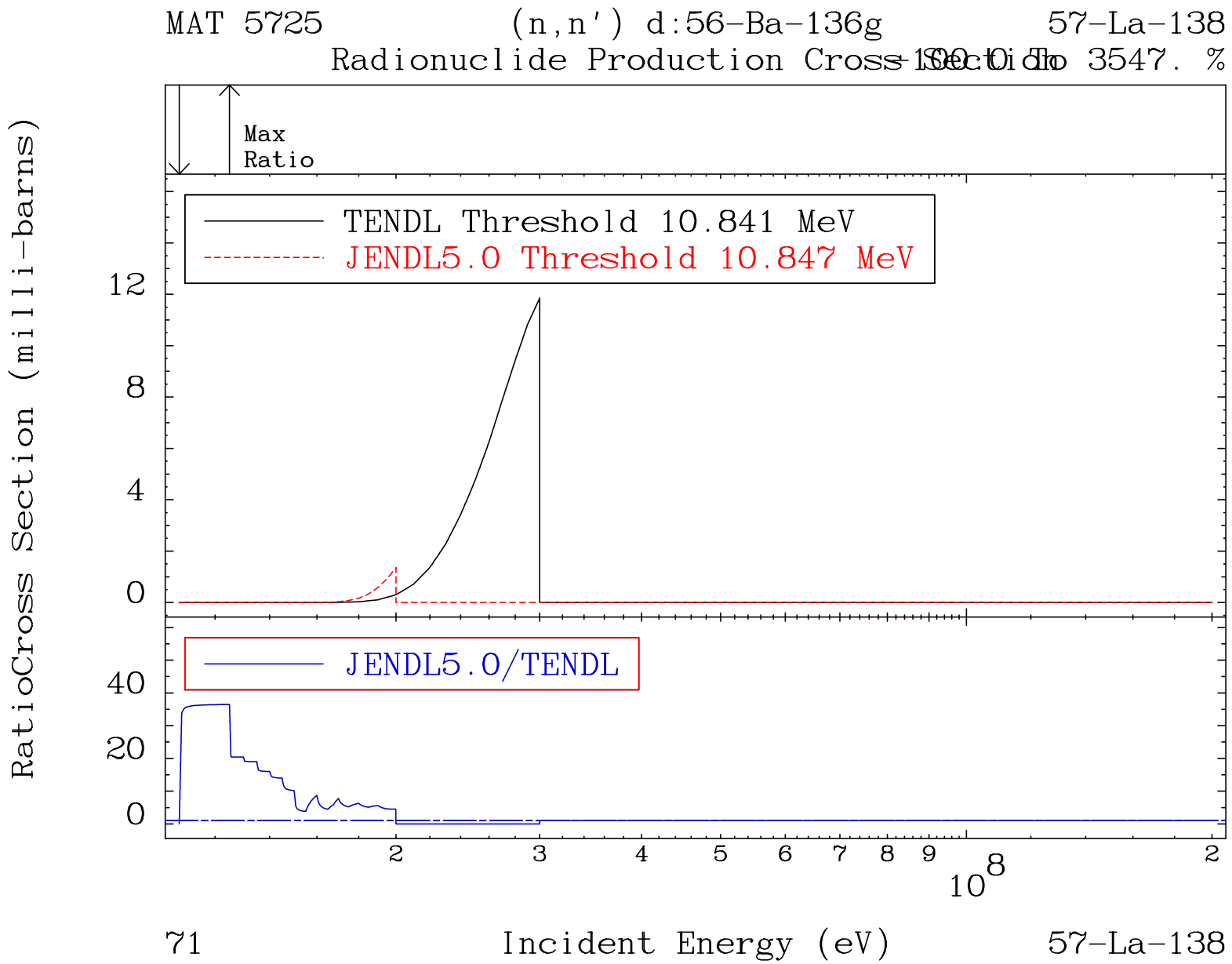

MAT 5725
(n,3n):57-La-136g
57-La-138
Radionuclide Production Cross Section To 96.00 %
Max
Ratio
TENDL Threshold 16.740 MeV
JENDL5.0 Threshold 16.746 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
66
Incident Energy (eV)
57-La-138

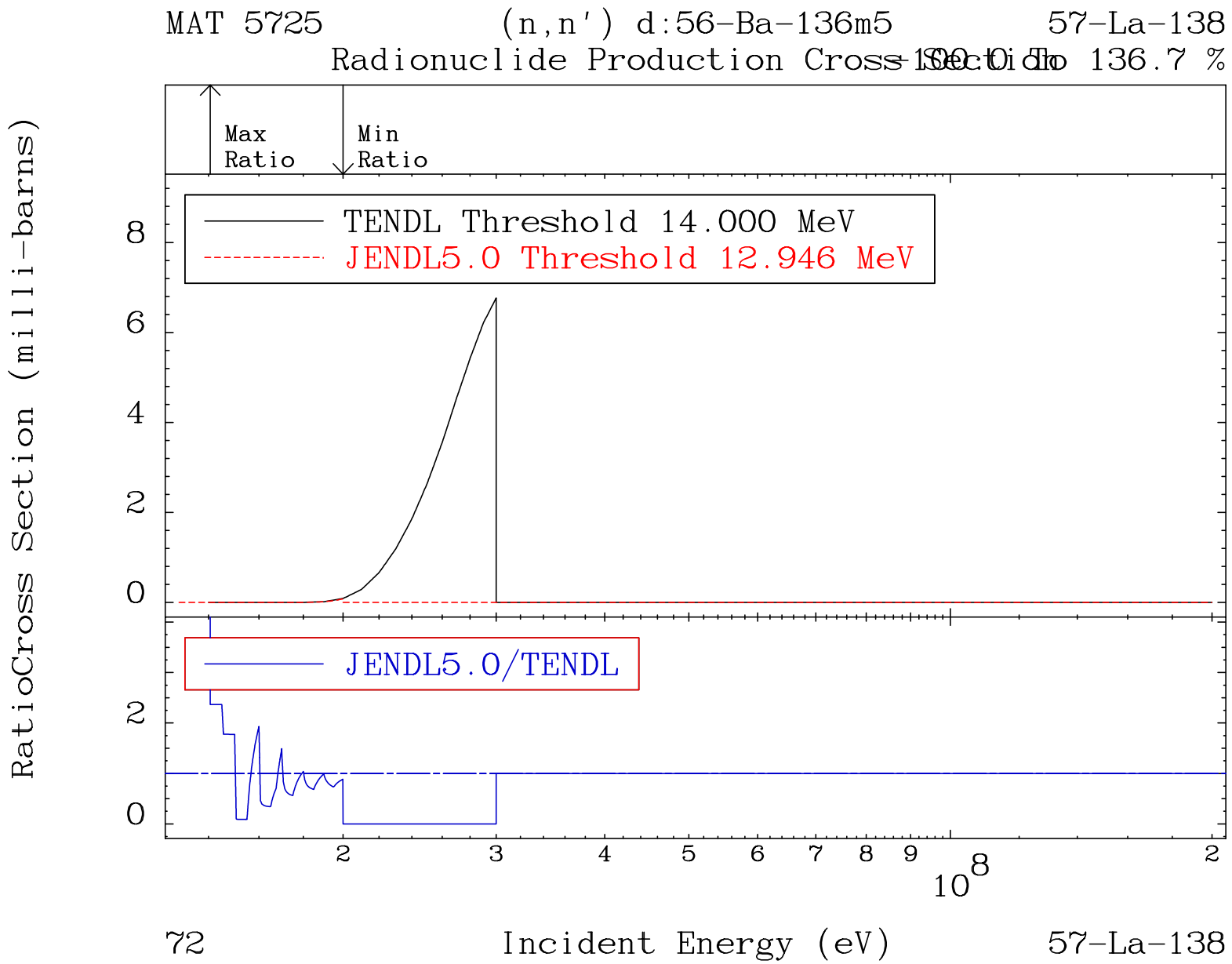

MAT 5725
(n,n') α:55-Cs-134g
57-La-138
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.0621 MeV
JENDL5.0 Threshold 2.0680 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
67
57-La-138

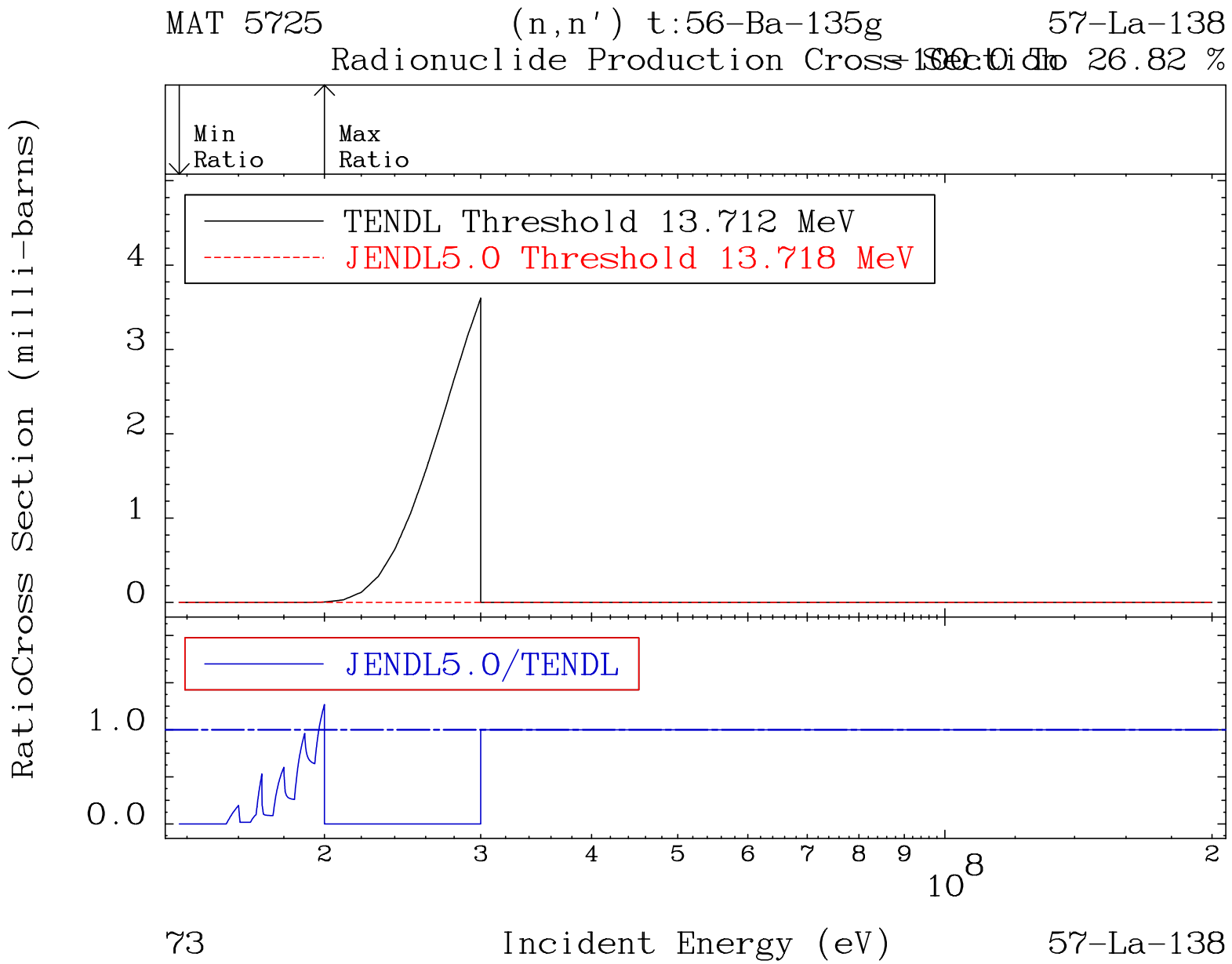

MAT 5725
(n,n') α:55-Cs-134m3
57-La-138
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 6.2000 MeV
JENDL5.0 Threshold 2.2077 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
68
57-La-138

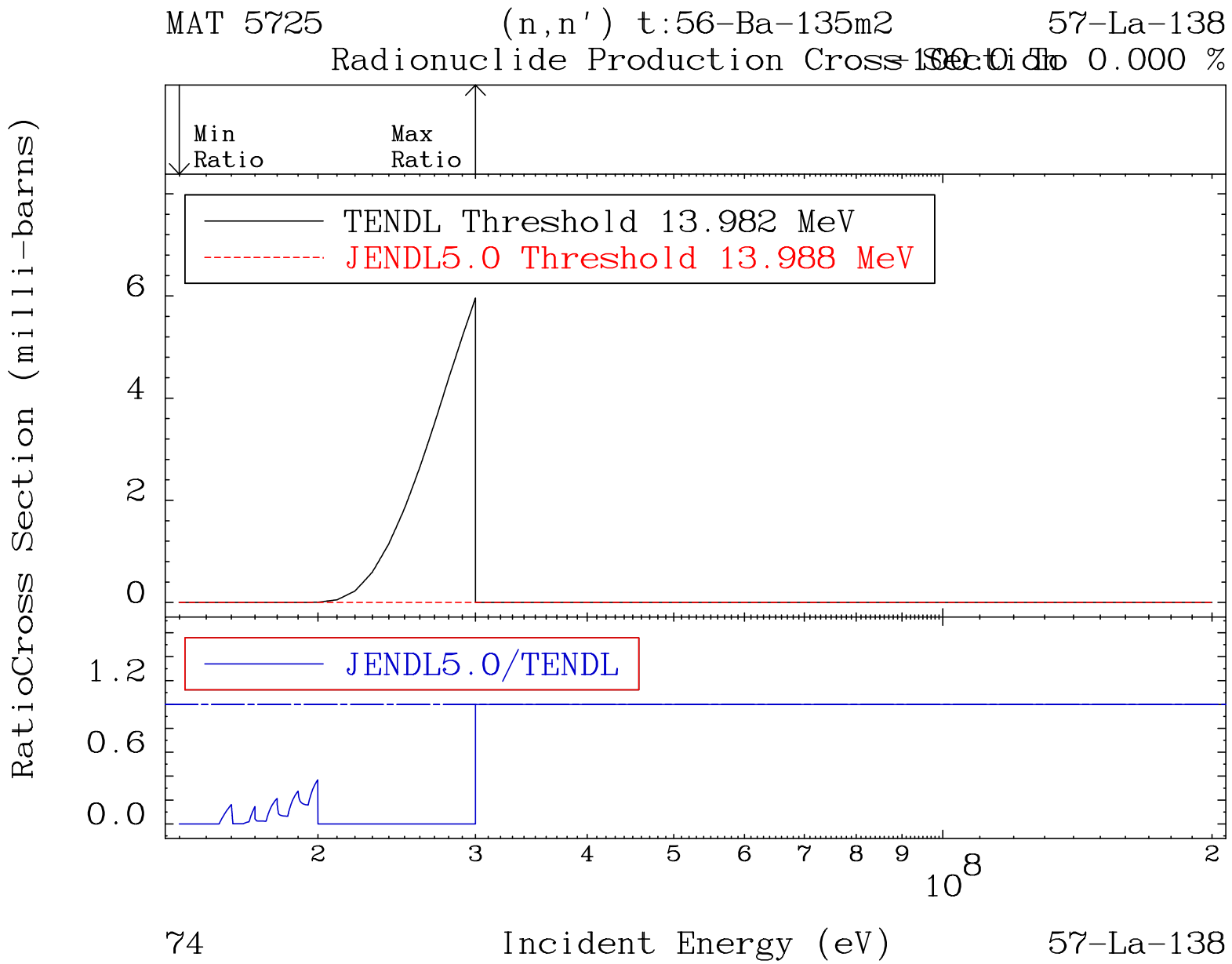

MAT 5725
(n,n') p:56-Ba-137g
57-La-138
Radionuclide Production Cross Section To 3883. %
Max
Ratio
TENDL Threshold 6.1255 MeV
JENDL5.0 Threshold 6.1314 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
60
40
20
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
69
Incident Energy (eV)
57-La-138

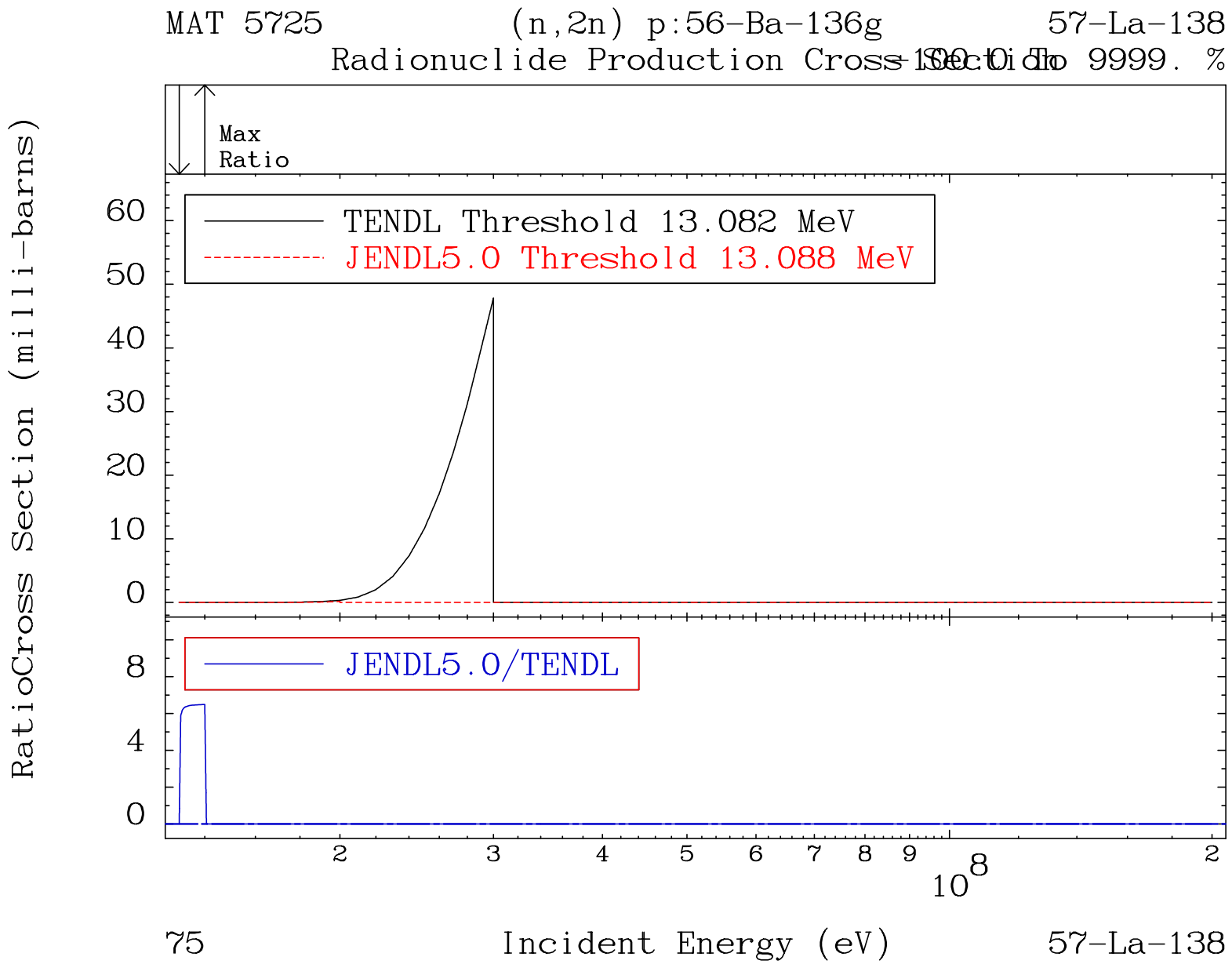

MAT 5725 (n,n') p:56-Ba-137m2 57-La-138
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.4000 MeV
JENDL5.0 Threshold 7.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
0.8
0.4
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
70 Incident Energy (eV) 57-La-138

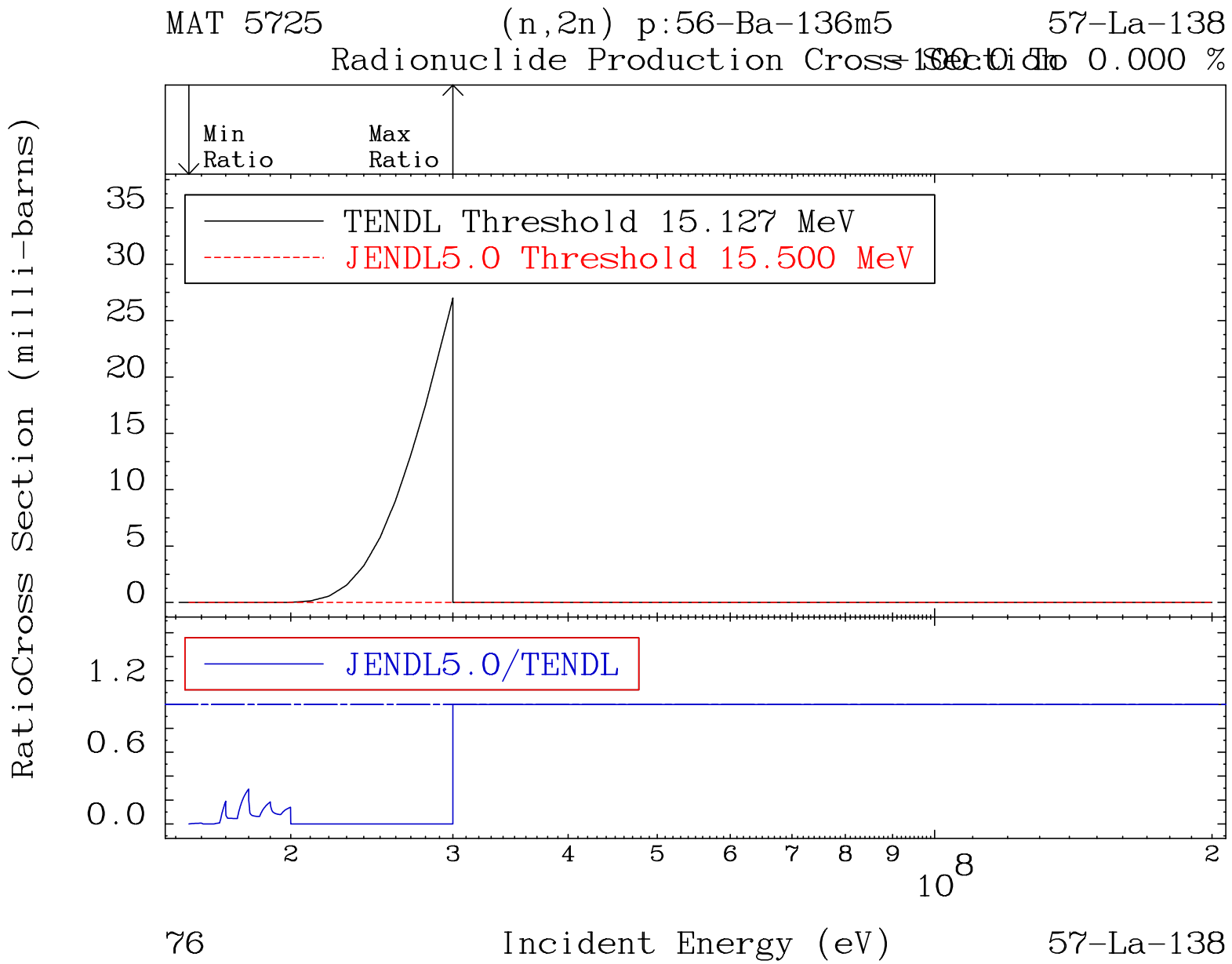

MAT 5725
(n,n') d:56-Ba-136g
57-La-138
Radionuclide Production Cross Section To 3547. %
Max
Ratio
TENDL Threshold 10.841 MeV
JENDL5.0 Threshold 10.847 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
12
8
4
0
40
20
0
2
3
4
5
6
7
8
9
2
10^8
71
Incident Energy (eV)
57-La-138

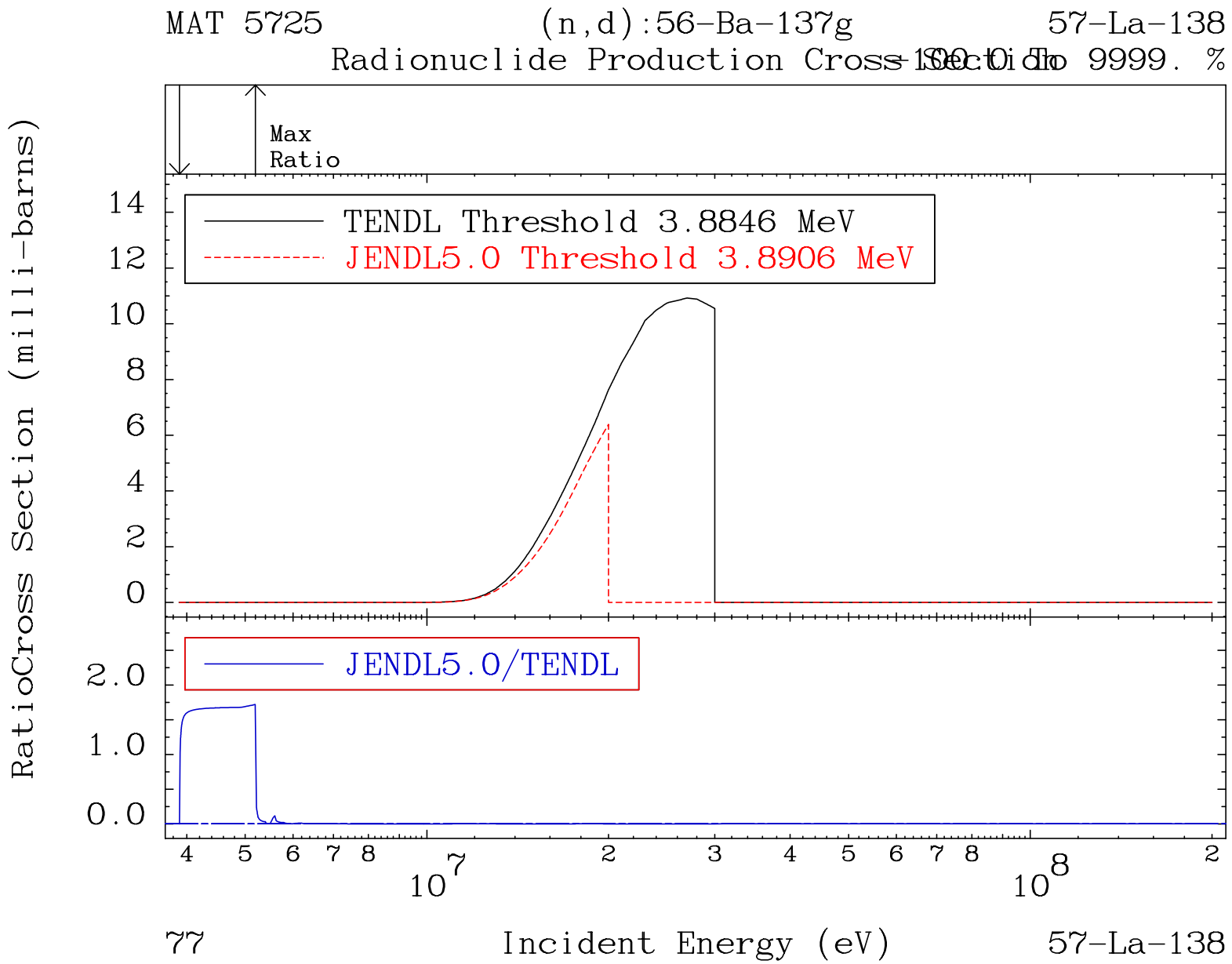

MAT 5725
(n,n') d:56-Ba-136m5
57-La-138
Radionuclide Production Cross Section To 136.7 %
Max Ratio
Min Ratio
TENDL Threshold 14.000 MeV
JENDL5.0 Threshold 12.946 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
0
2
2
3
4
5
6
7
8
9
2
10^8
72
Incident Energy (eV)
57-La-138

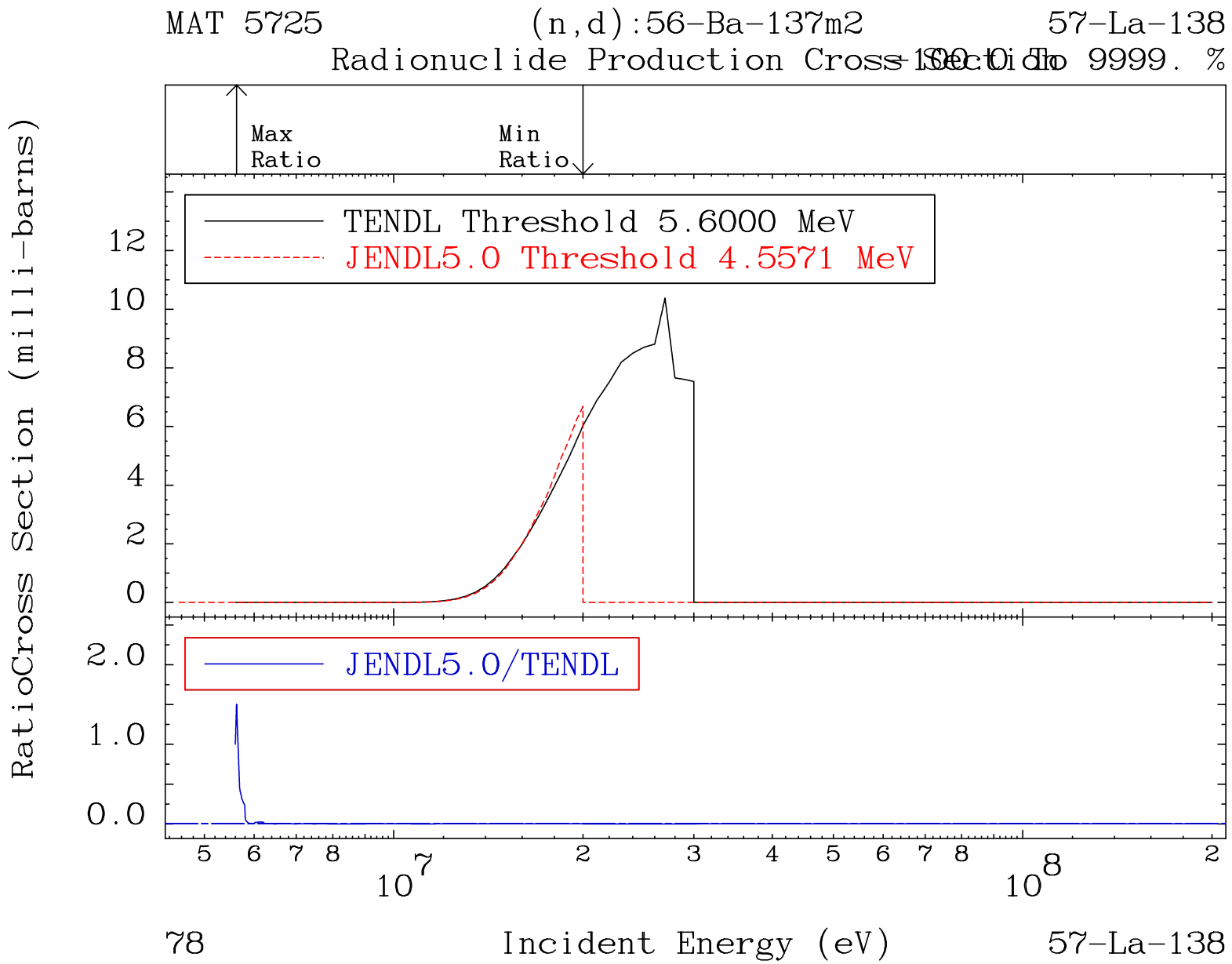

MAT 5725
(n,n') t:56-Ba-135g
57-La-138
Radionuclide Production Cross Section Up To 26.82 %
Min Ratio
Max Ratio
TENDL Threshold 13.712 MeV
JENDL5.0 Threshold 13.718 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
73
57-La-138

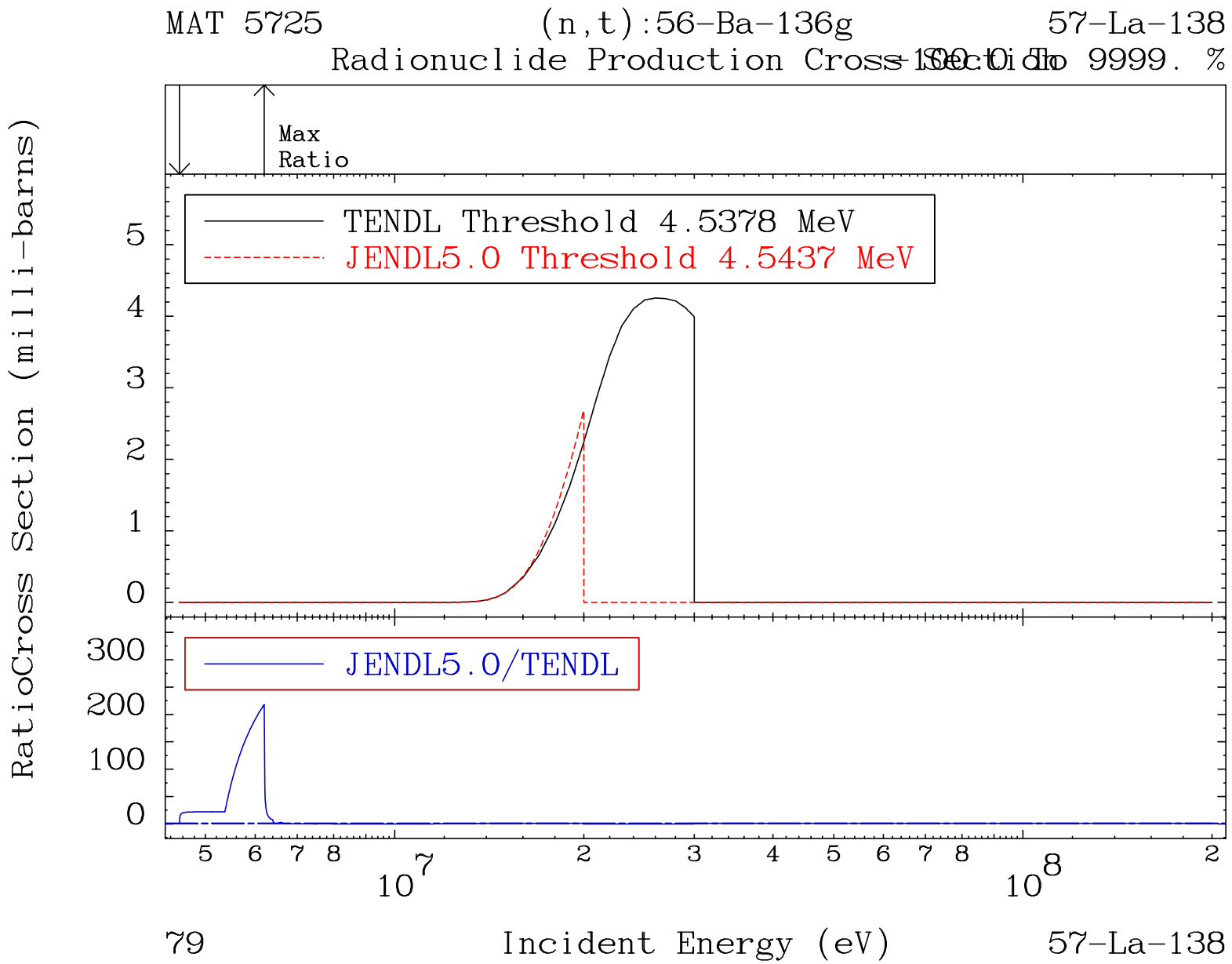

MAT 5725
(n,n') t:56-Ba-135m2
57-La-138
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 13.982 MeV
JENDL5.0 Threshold 13.988 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
74
57-La-138

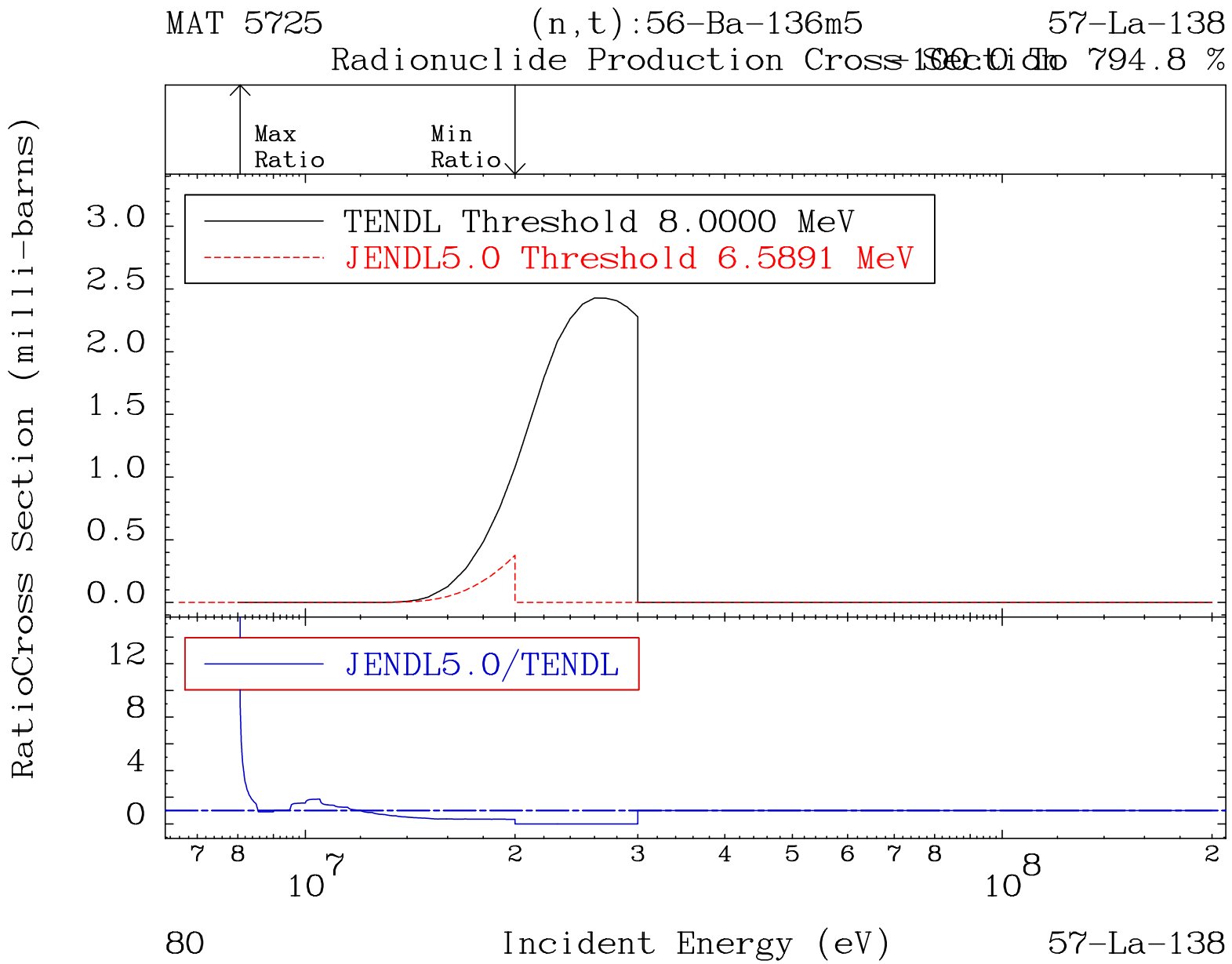

MAT 5725
(n,2n) p:56-Ba-136g
57-La-138
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 13.082 MeV
JENDL5.0 Threshold 13.088 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
75
57-La-138

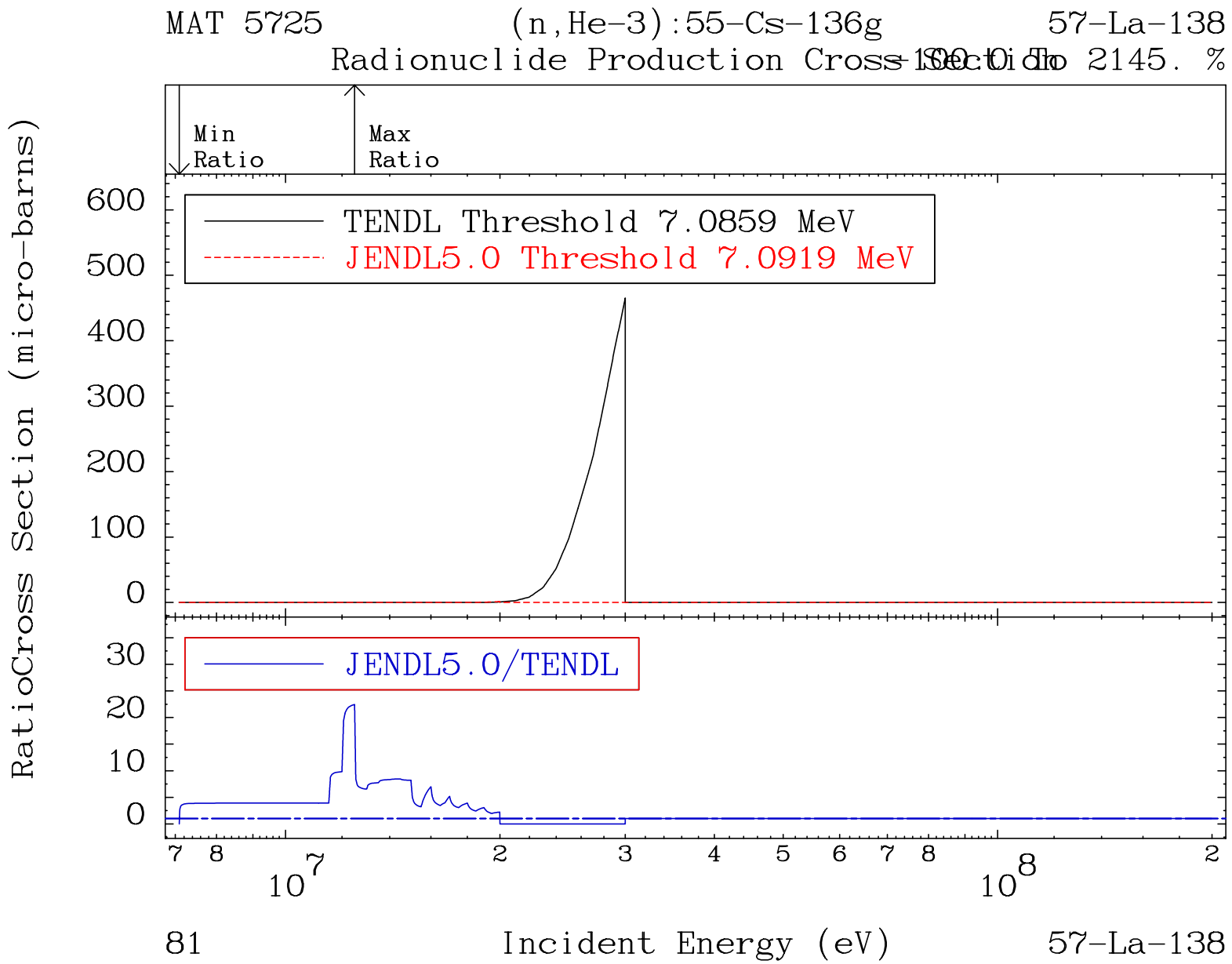

MAT 5725
(n,2n) p:56-Ba-136m5
57-La-138
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 15.127 MeV
JENDL5.0 Threshold 15.500 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
57-La-138

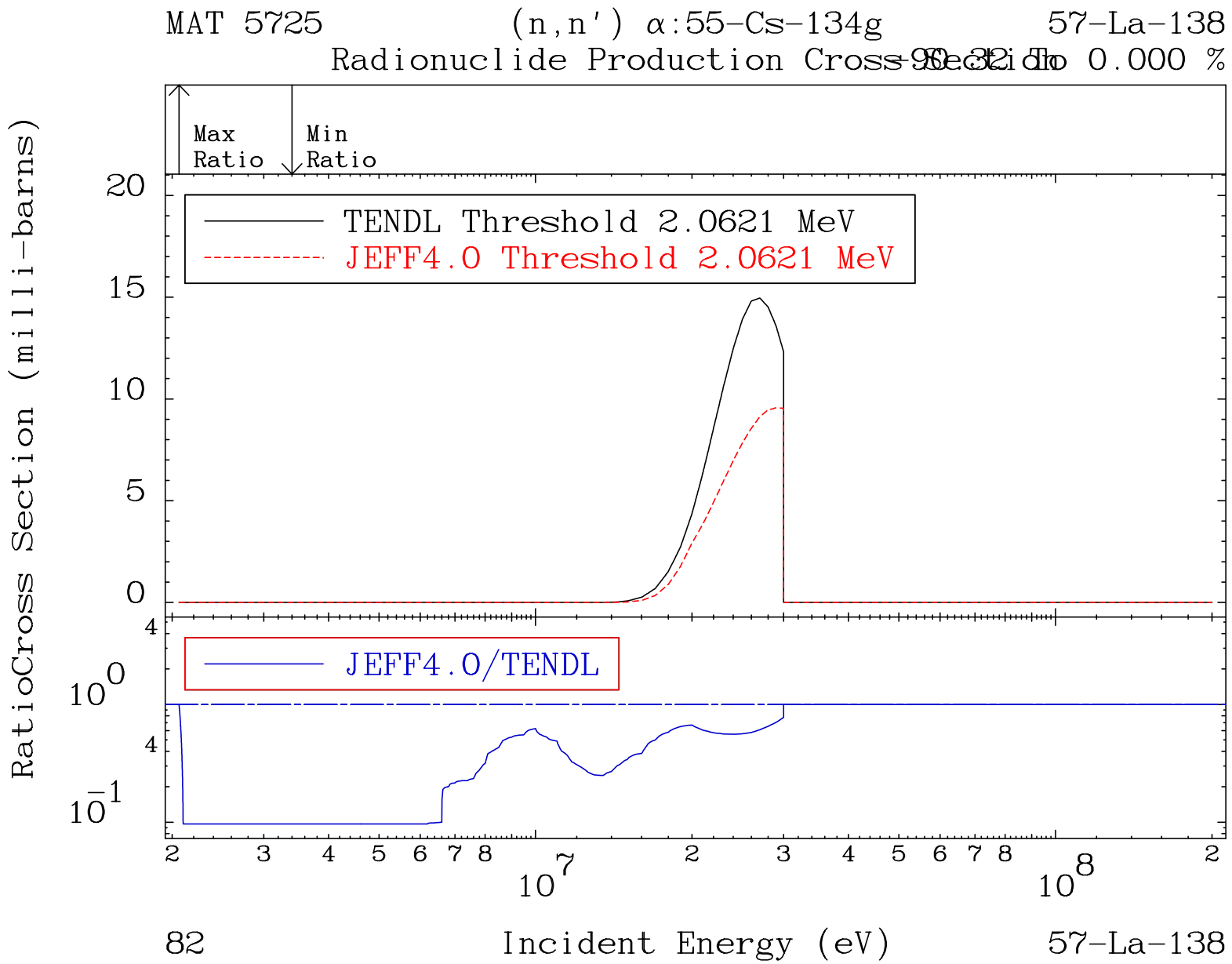

MAT 5725
(n,d):56-Ba-137g
57-La-138
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 3.8846 MeV
JENDL5.0 Threshold 3.8906 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
77
Incident Energy (eV)
57-La-138

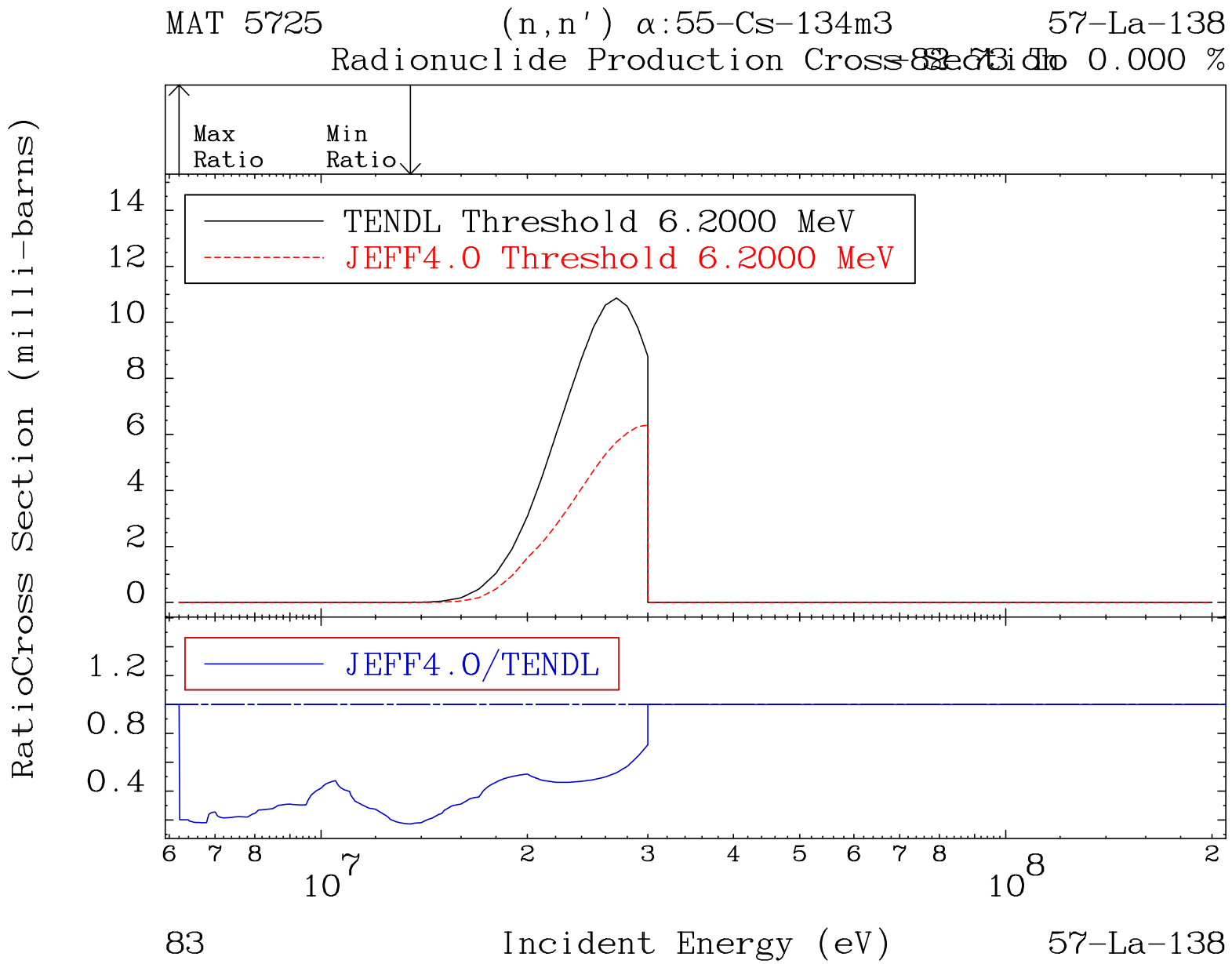

MAT 5725
(n,d):56-Ba-137m2
57-La-138
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.6000 MeV
JENDL5.0 Threshold 4.5571 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
2.0
1.0
0.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
78
Incident Energy (eV)
57-La-138

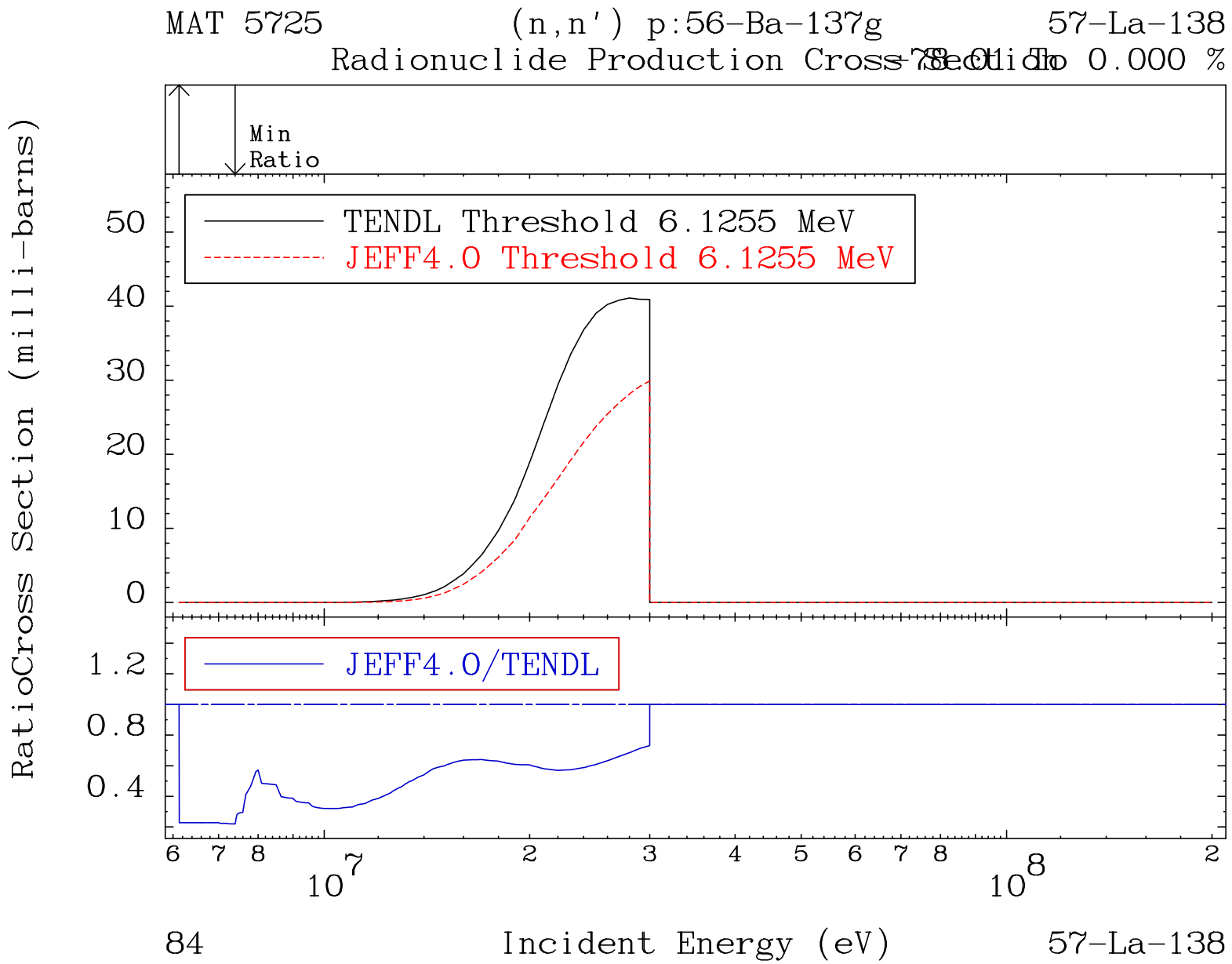

MAT 5725
(n,t):56-Ba-136g
57-La-138
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 4.5378 MeV
JENDL5.0 Threshold 4.5437 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
79
57-La-138

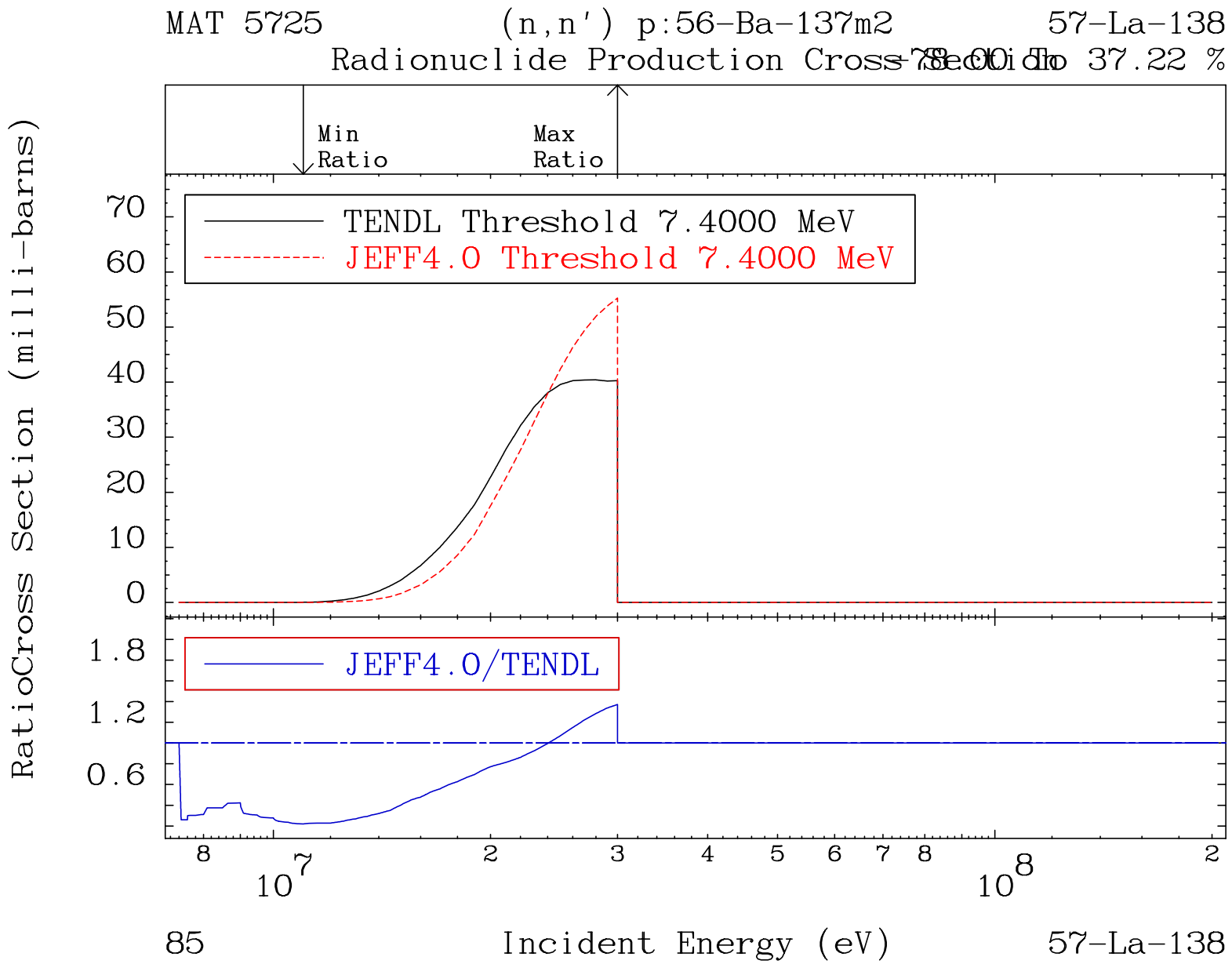

MAT 5725
(n,t):56-Ba-136m5
57-La-138
Radionuclide Production Cross Section To 794.8 %
Max Ratio
Min Ratio
TENDL Threshold 8.0000 MeV
JENDL5.0 Threshold 6.5891 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12
8
4
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
80
Incident Energy (eV)
57-La-138

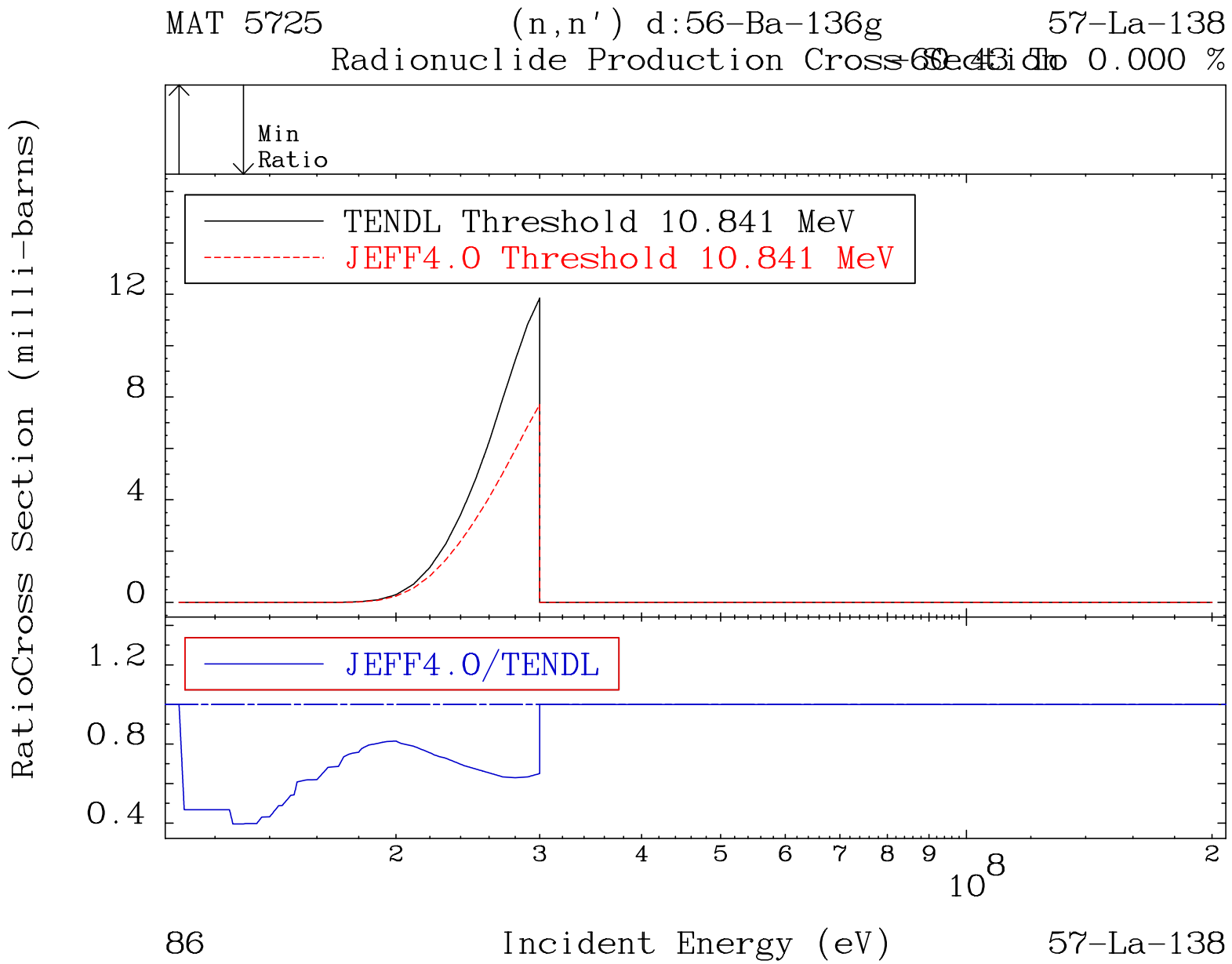

MAT 5725
(n,He-3):55-Cs-136g
57-La-138
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 7.0859 MeV
JENDL5.0 Threshold 7.0919 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
81
57-La-138

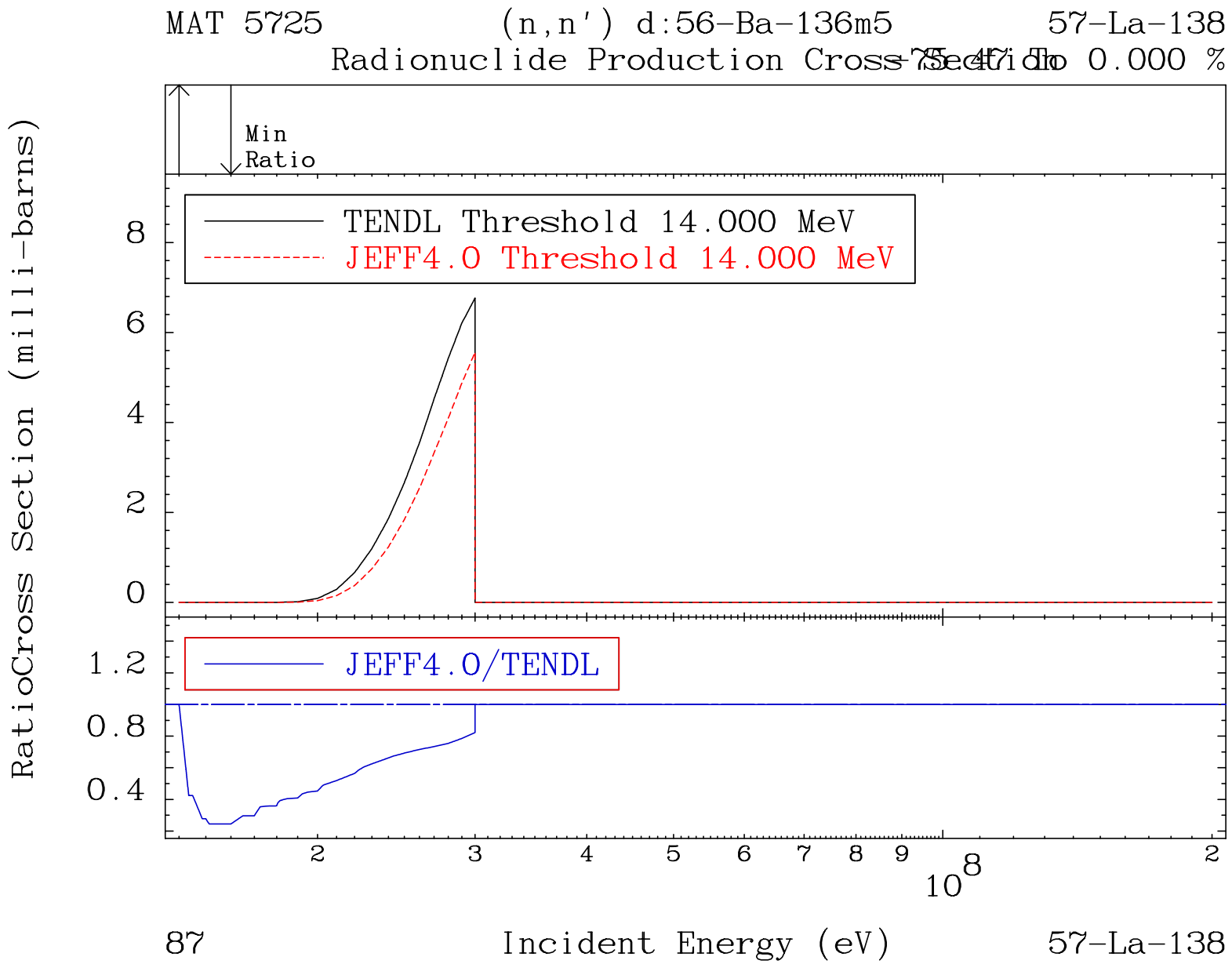

MAT 5725
(n,n') α:55-Cs-134g
57-La-138
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 2.0621 MeV
JEFF4.0 Threshold 2.0621 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
82
57-La-138

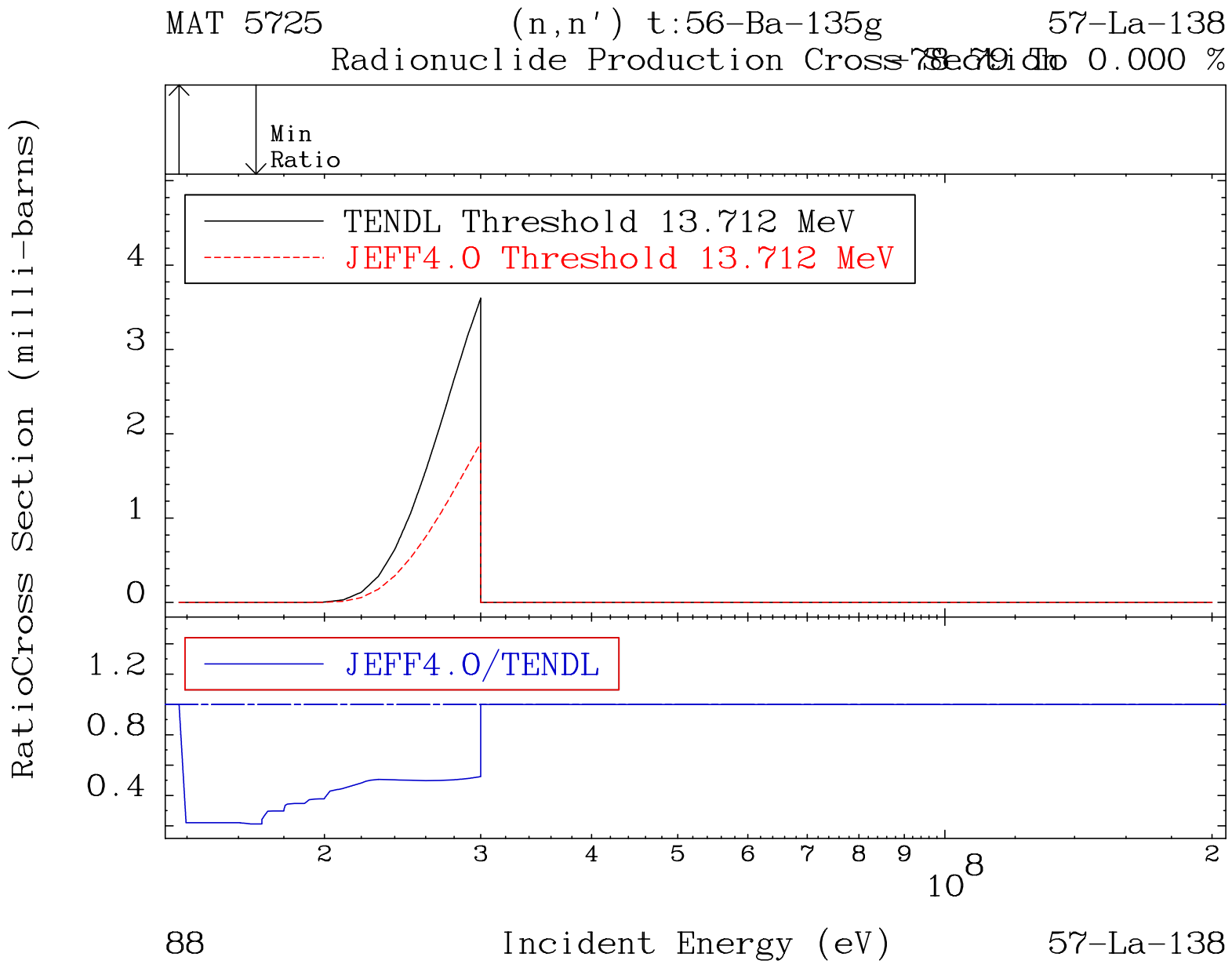

MAT 5725
(n,n') α:55-Cs-134m3
57-La-138
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 6.2000 MeV
JEFF4.0 Threshold 6.2000 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
1.2
0.8
0.4
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
83
Incident Energy (eV)
57-La-138

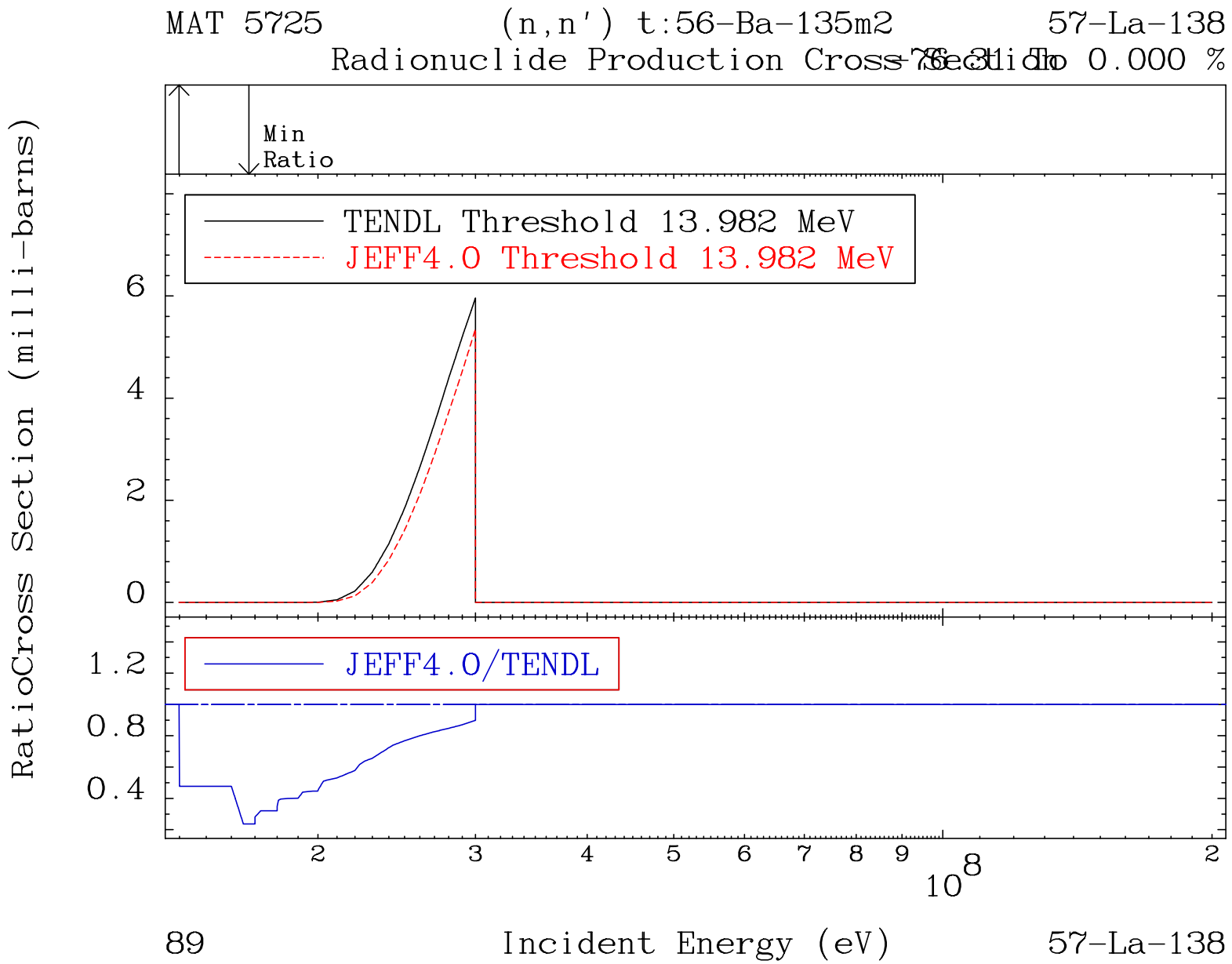

MAT 5725
(n,n') p:56-Ba-137g
57-La-138
Radionuclide Production Cross Section To 0.000 %
Min
Ratio
TENDL Threshold 6.1255 MeV
JEFF4.0 Threshold 6.1255 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.2
0.8
0.4
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
84
Incident Energy (eV)
57-La-138

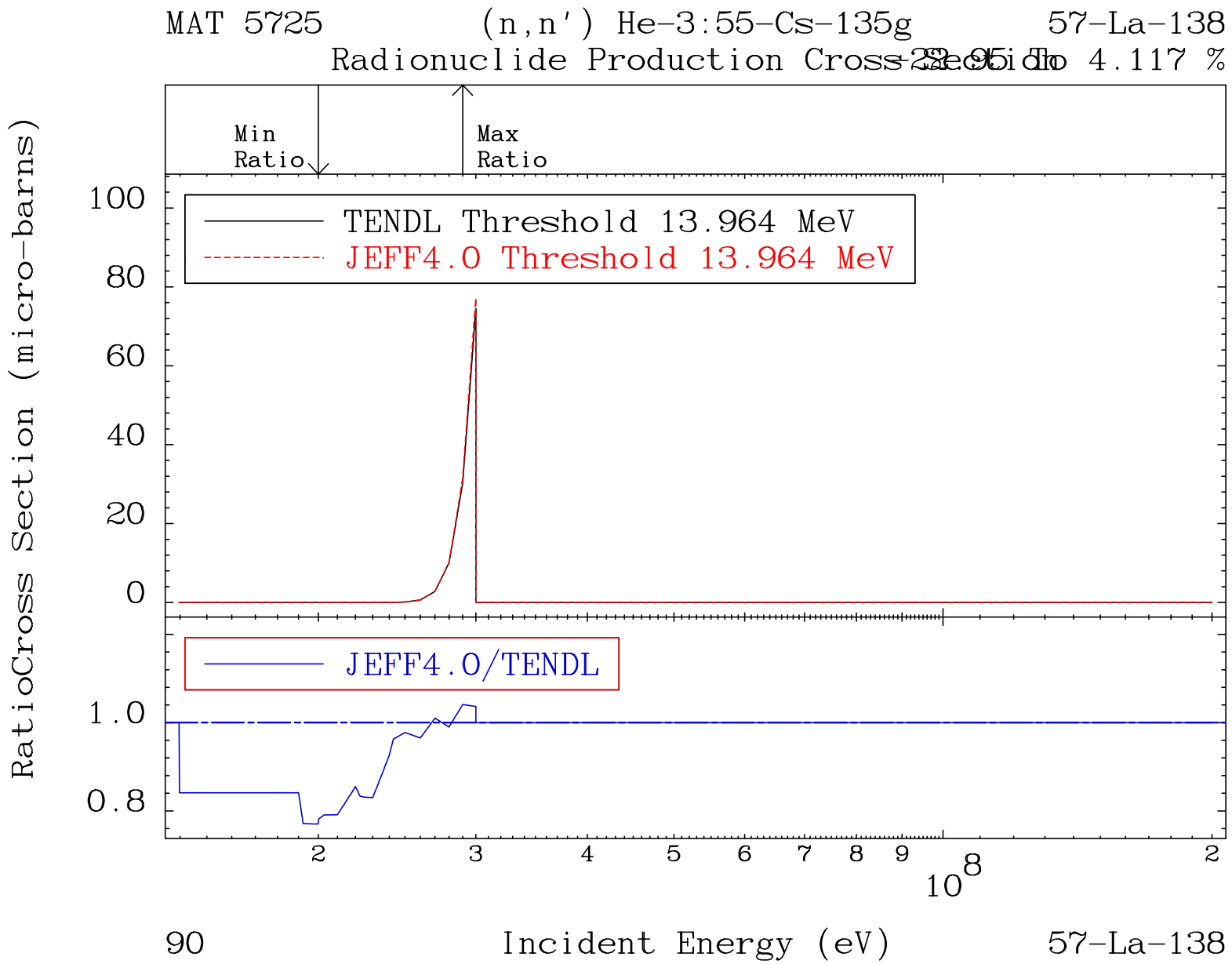

MAT 5725
(n,n') p:56-Ba-137m2
57-La-138
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 7.4000 MeV
JEFF4.0 Threshold 7.4000 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
85
57-La-138

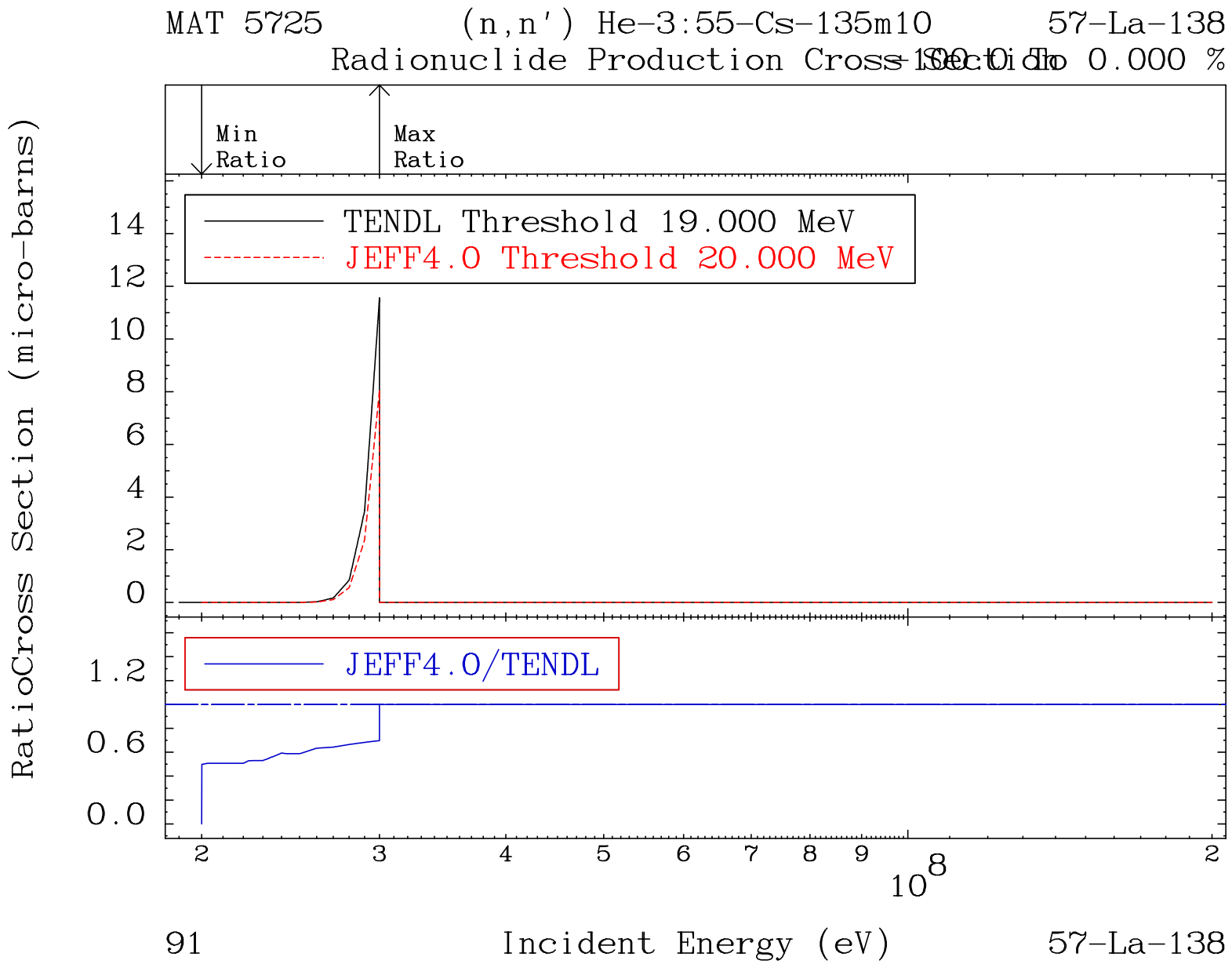

MAT 5725
(n,n') d:56-Ba-136g
57-La-138
Radionuclide Production Cross Section To 0.000 %
Min
Ratio
TENDL Threshold 10.841 MeV
JEFF4.0 Threshold 10.841 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
12
8
4
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
57-La-138

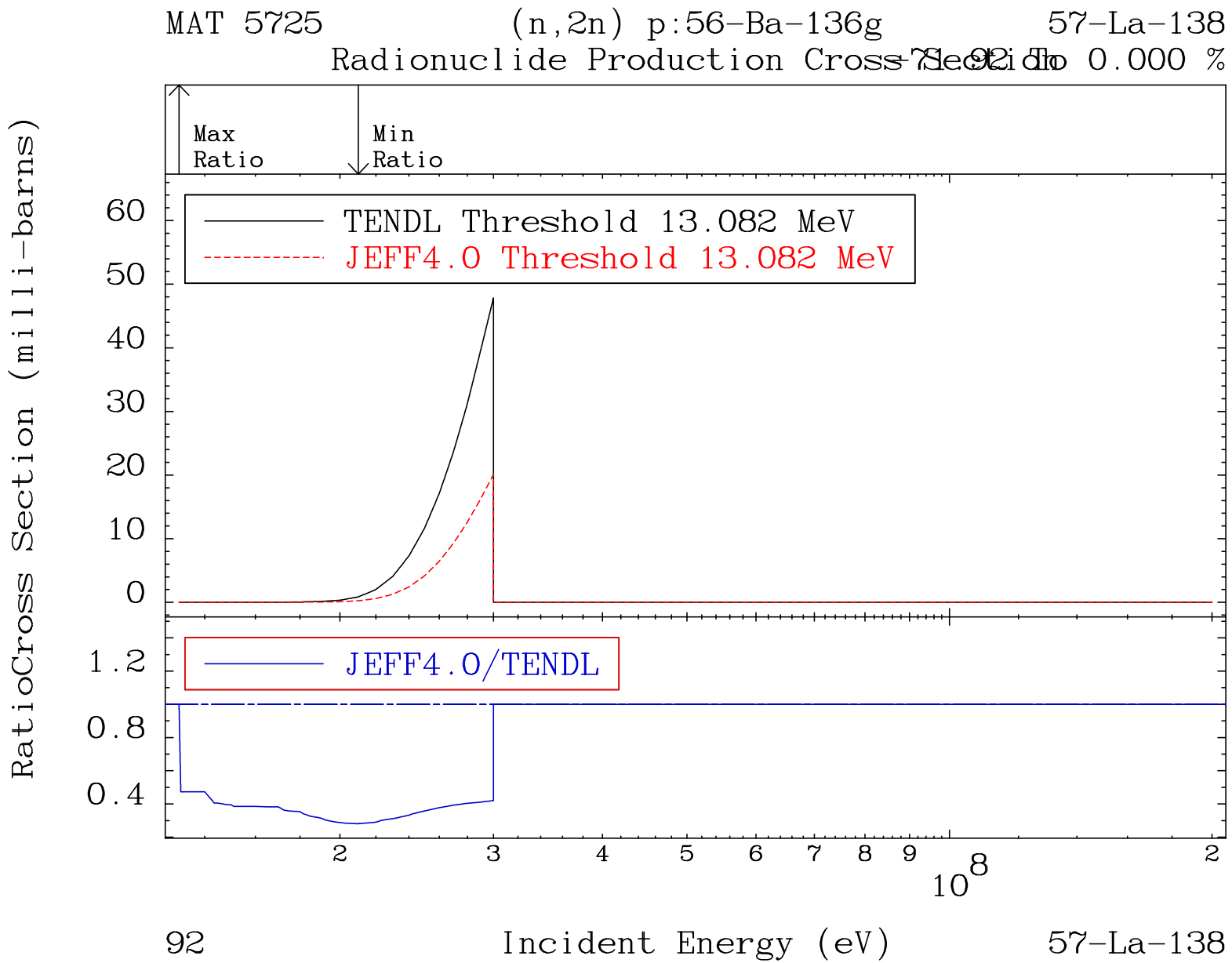

MAT 5725
(n,n') d:56-Ba-136m5
57-La-138
Radionuclide Production Cross Section To 0.000 %
Min
Ratio
TENDL Threshold 14.000 MeV
JEFF4.0 Threshold 14.000 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
57-La-138

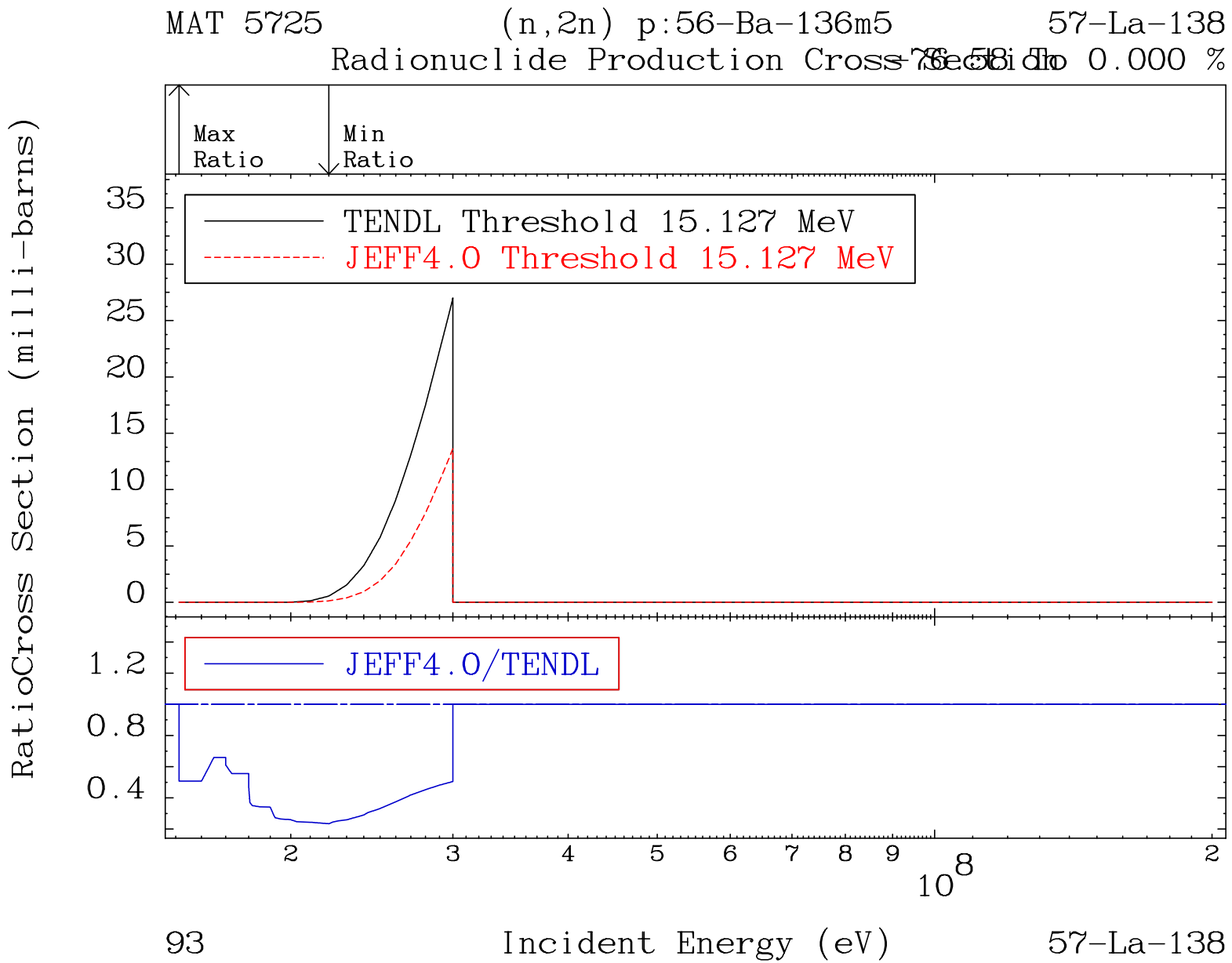

MAT 5725
(n,n') t:56-Ba-135g
57-La-138
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 13.712 MeV
JEFF4.0 Threshold 13.712 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
88
57-La-138

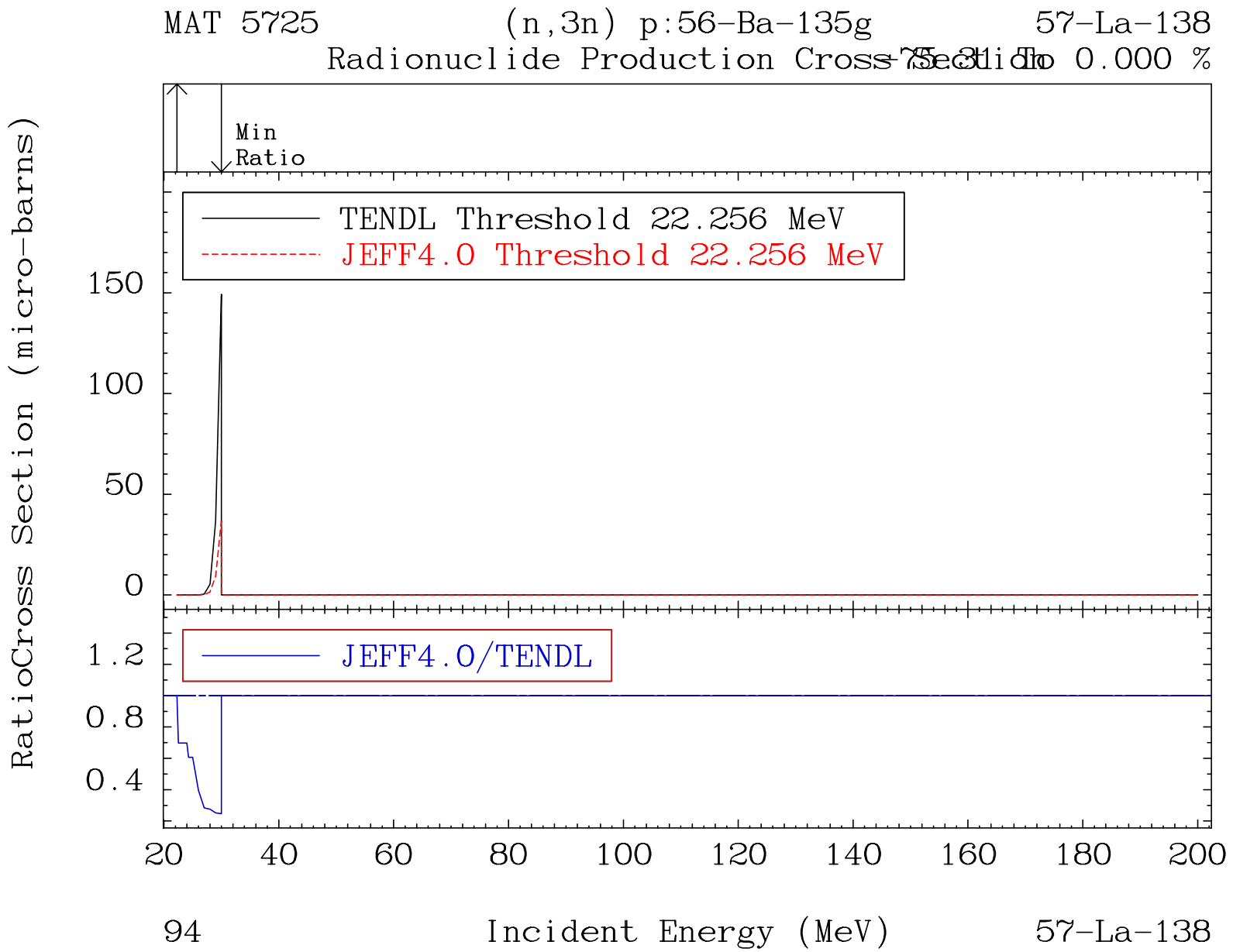

MAT 5725 (n,n') t:56-Ba-135m2 57-La-138
Radionuclide Production Cross Section To 0.000 %
Min
Ratio
TENDL Threshold 13.982 MeV
JEFF4.0 Threshold 13.982 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
6
4
2
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
57-La-138

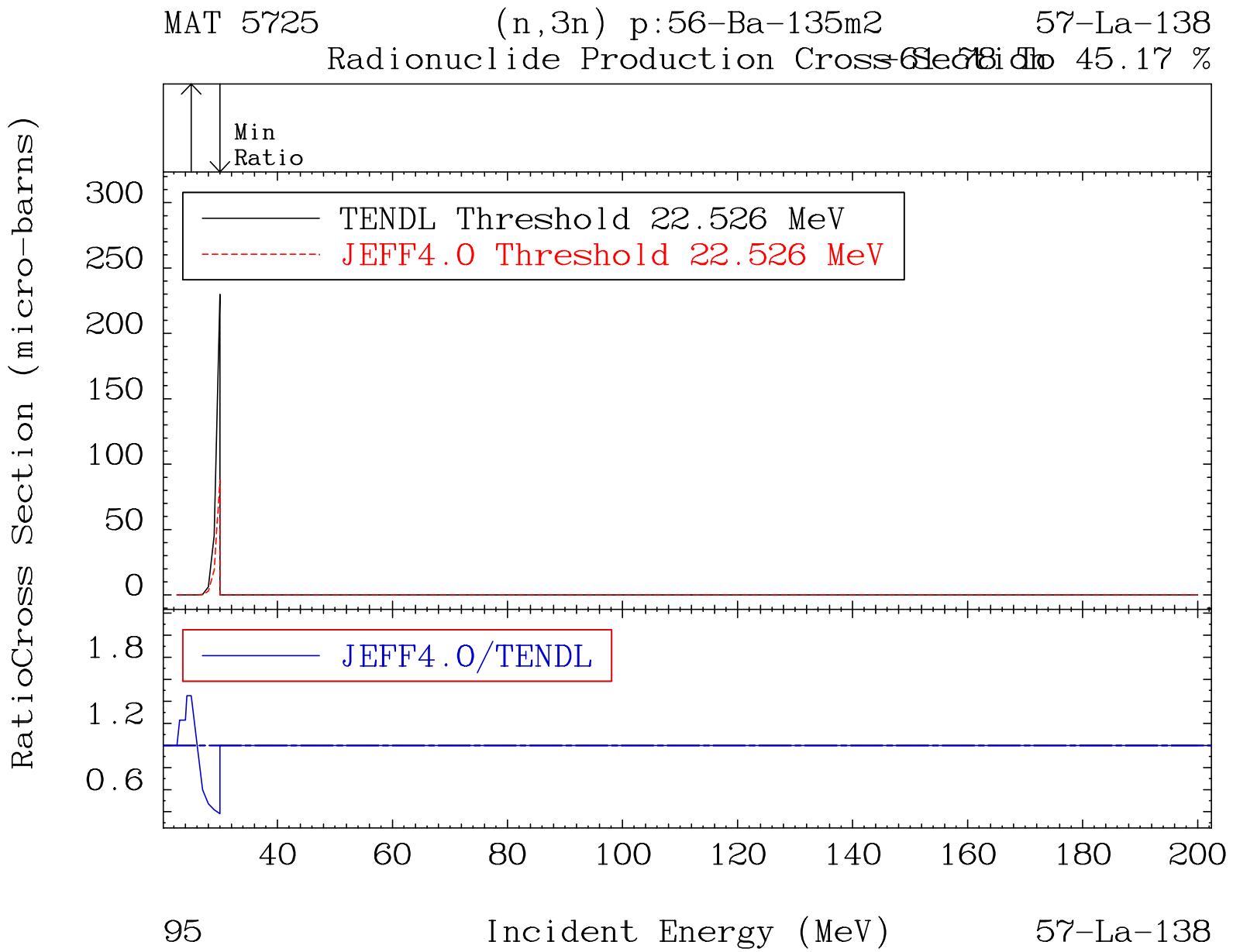

MAT 5725
(n,n') He-3:55-Cs-135g
57-La-138
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 13.964 MeV
JEFF4.0 Threshold 13.964 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
90
57-La-138

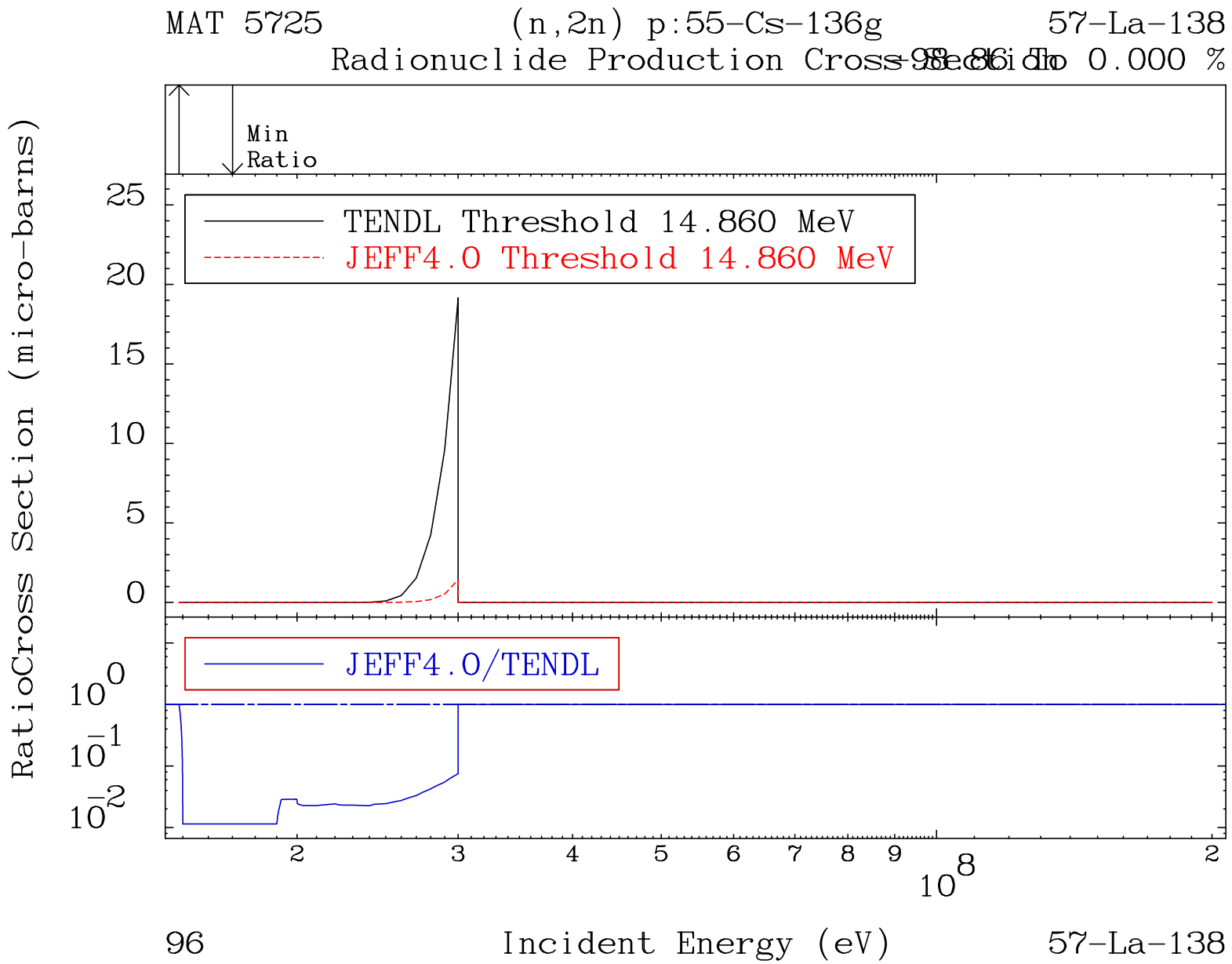

MAT 5725 (n,n') He-3:55-Cs-135m10 57-La-138
Radionuclide Production Cross Section Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 19.000 MeV
JEFF4.0 Threshold 20.000 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
14
12
10
8
6
4
2
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
91
Incident Energy (eV)
57-La-138

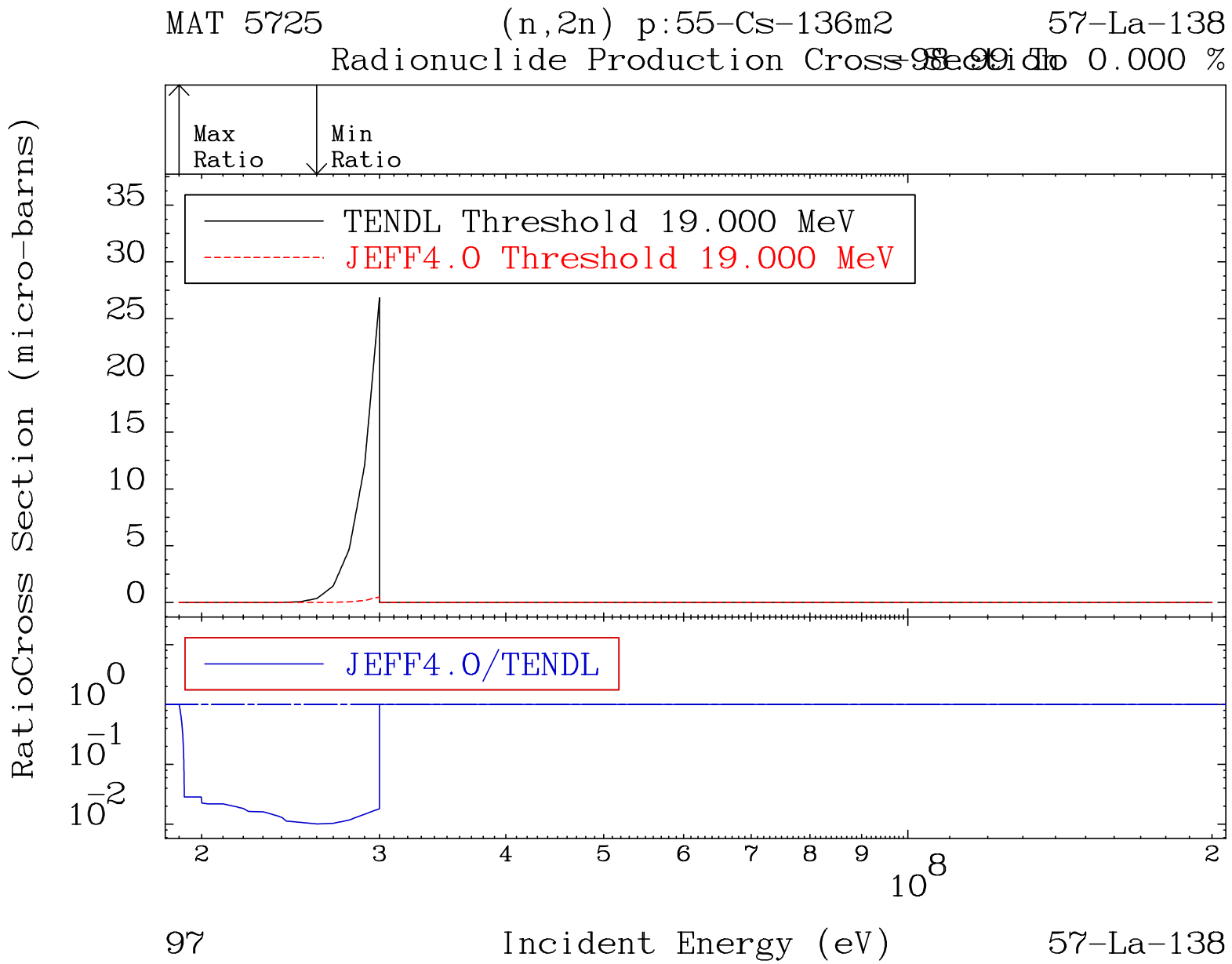

MAT 5725
(n,2n) p:56-Ba-136g
57-La-138
Radionuclide Production Cross Section
92
Max Ratio
Min Ratio
TENDL Threshold 13.082 MeV
JEFF4.0 Threshold 13.082 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
92
Incident Energy (eV)
57-La-138

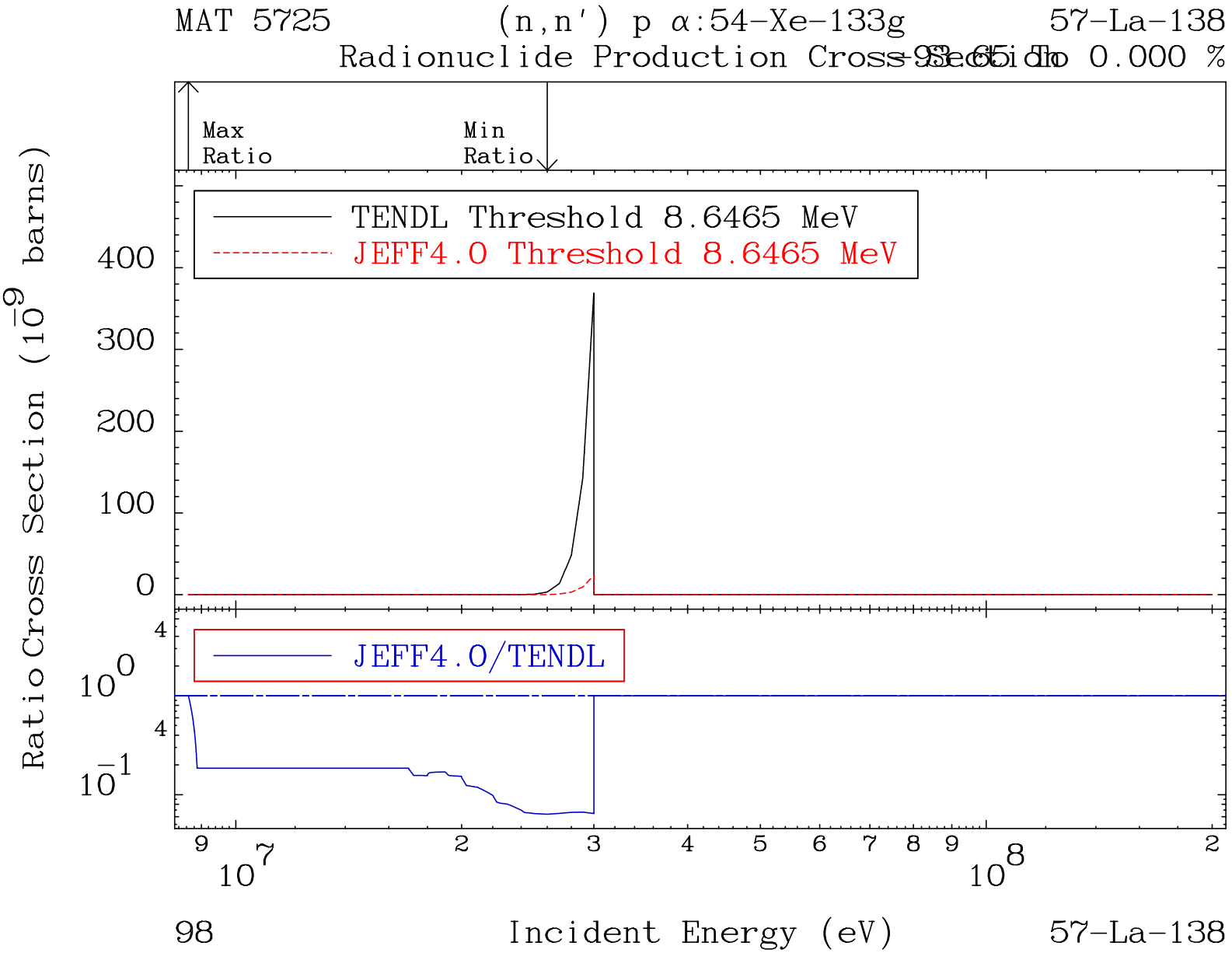

MAT 5725
(n,2n) p:56-Ba-136m5
57-La-138
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 15.127 MeV
JEFF4.0 Threshold 15.127 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
93
Incident Energy (eV)
57-La-138

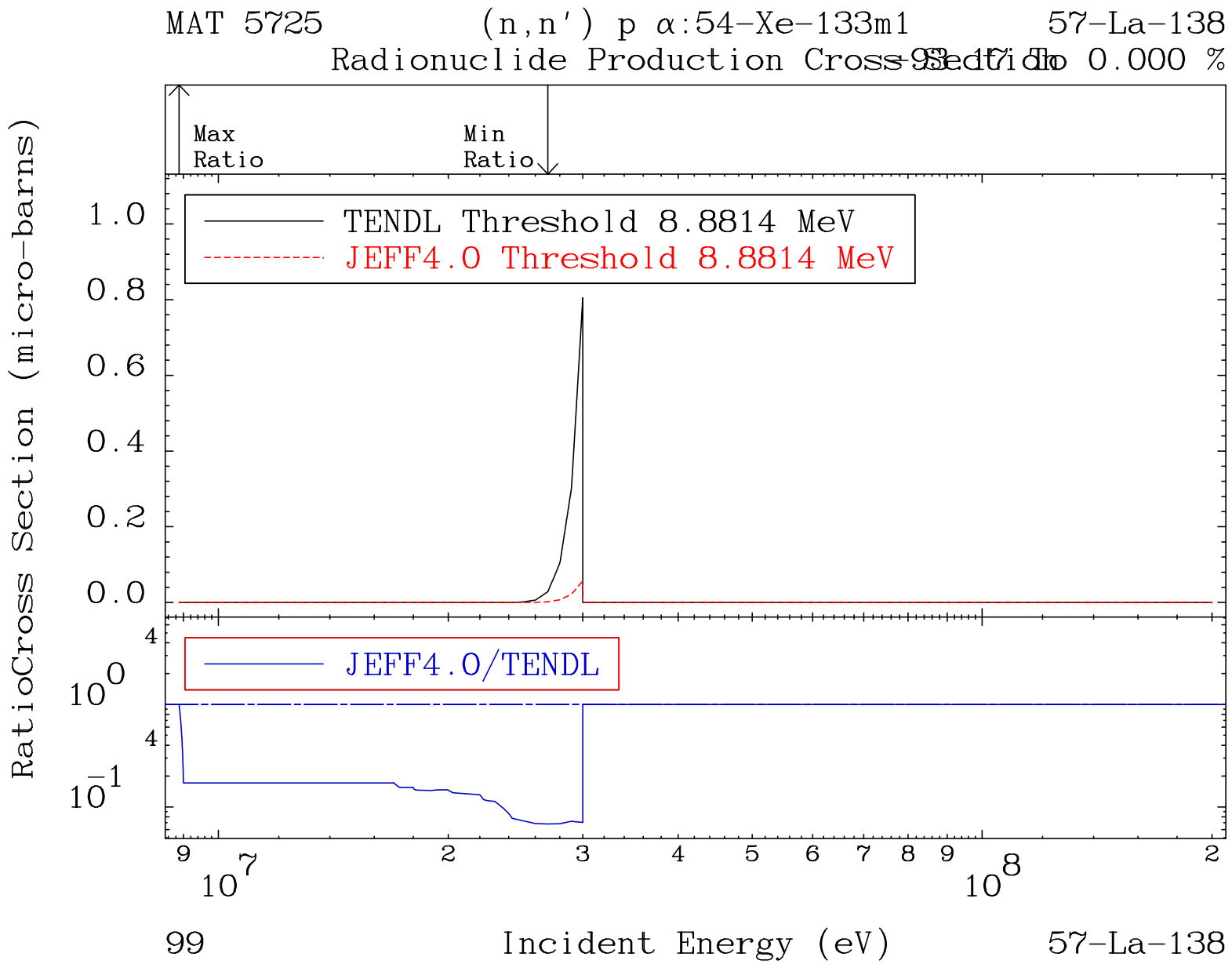

MAT 5725
(n,3n) p:56-Ba-135g
57-La-138
Radionuclide Production Cross Section
To 0.000 %
Min
Ratio
TENDL Threshold 22.256 MeV
JEFF4.0 Threshold 22.256 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
150
100
50
0
1.2
0.8
0.4
20
40
60
80
100
120
140
160
180
200
94
Incident Energy (MeV)
57-La-138

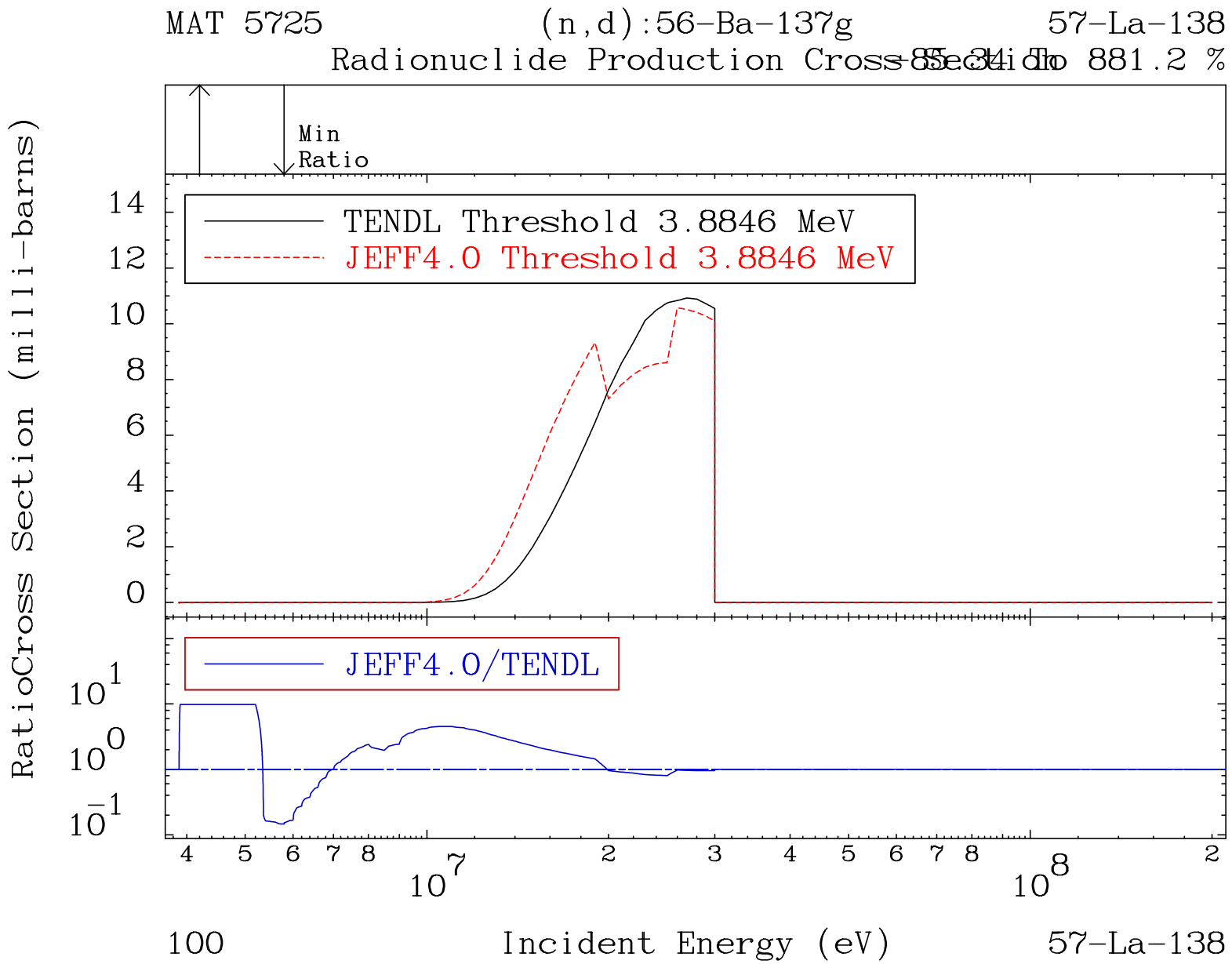

MAT 5725
(n,3n) p:56-Ba-135m2
57-La-138
Radionuclide Production Cross-Section
Min Ratio
TENDL Threshold 22.526 MeV
JEFF4.0 Threshold 22.526 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
300
250
200
150
100
50
0
1.8
1.2
0.6
40
60
80
100
120
140
160
180
200
95
Incident Energy (MeV)
57-La-138

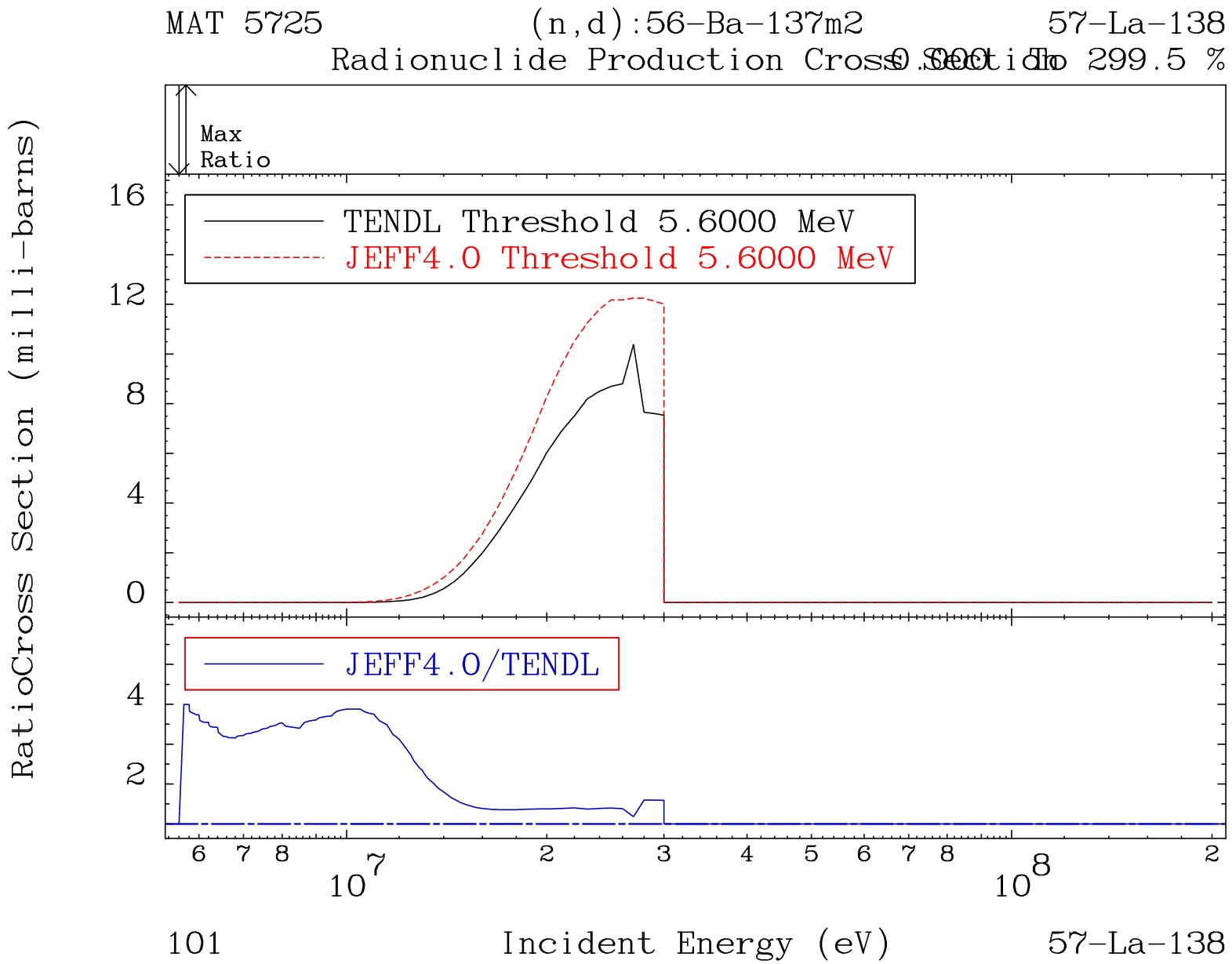

MAT 5725
(n,2n) p:55-Cs-136g
57-La-138
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 14.860 MeV
JEFF4.0 Threshold 14.860 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
96
57-La-138

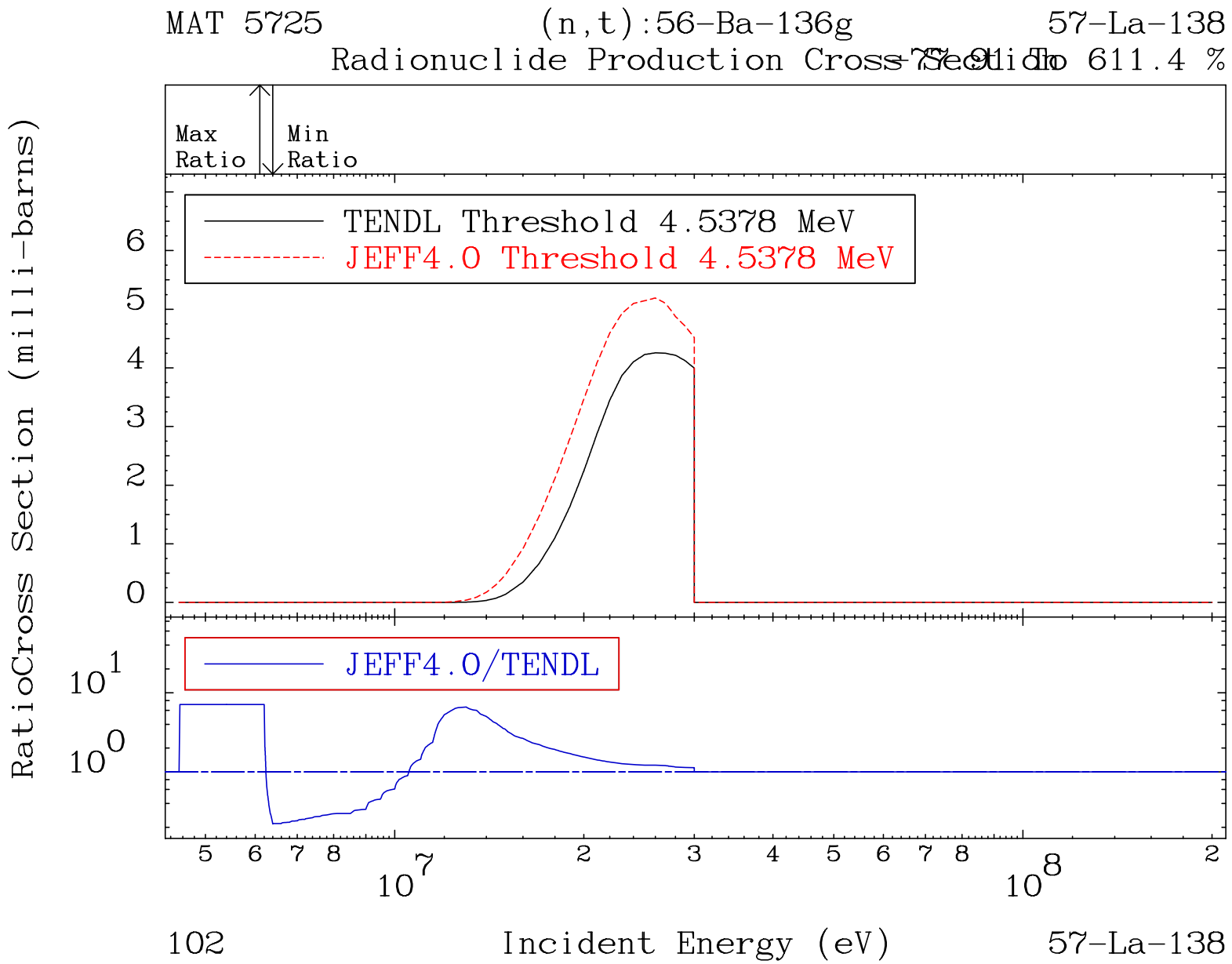

MAT 5725
(n,2n) p:55-Cs-136m2
57-La-138
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 19.000 MeV
JEFF4.0 Threshold 19.000 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
97

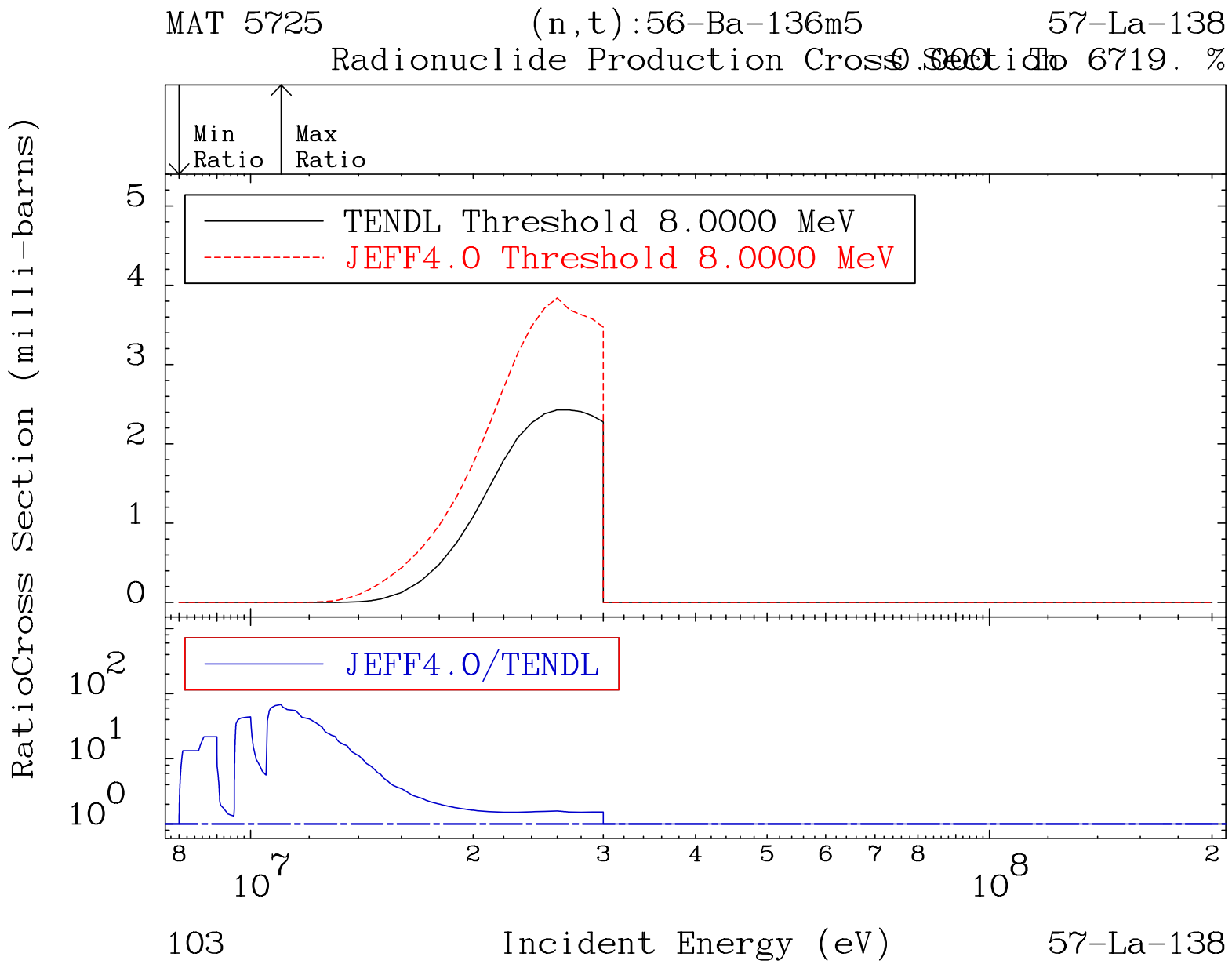

MAT 5725
(n,n') p α:54-Xe-133g
57-La-138
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 8.6465 MeV
JEFF4.0 Threshold 8.6465 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
400
300
200
100
0
4
10^{0}
4
10^{-1}
9
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
98
Incident Energy (eV)
57-La-138

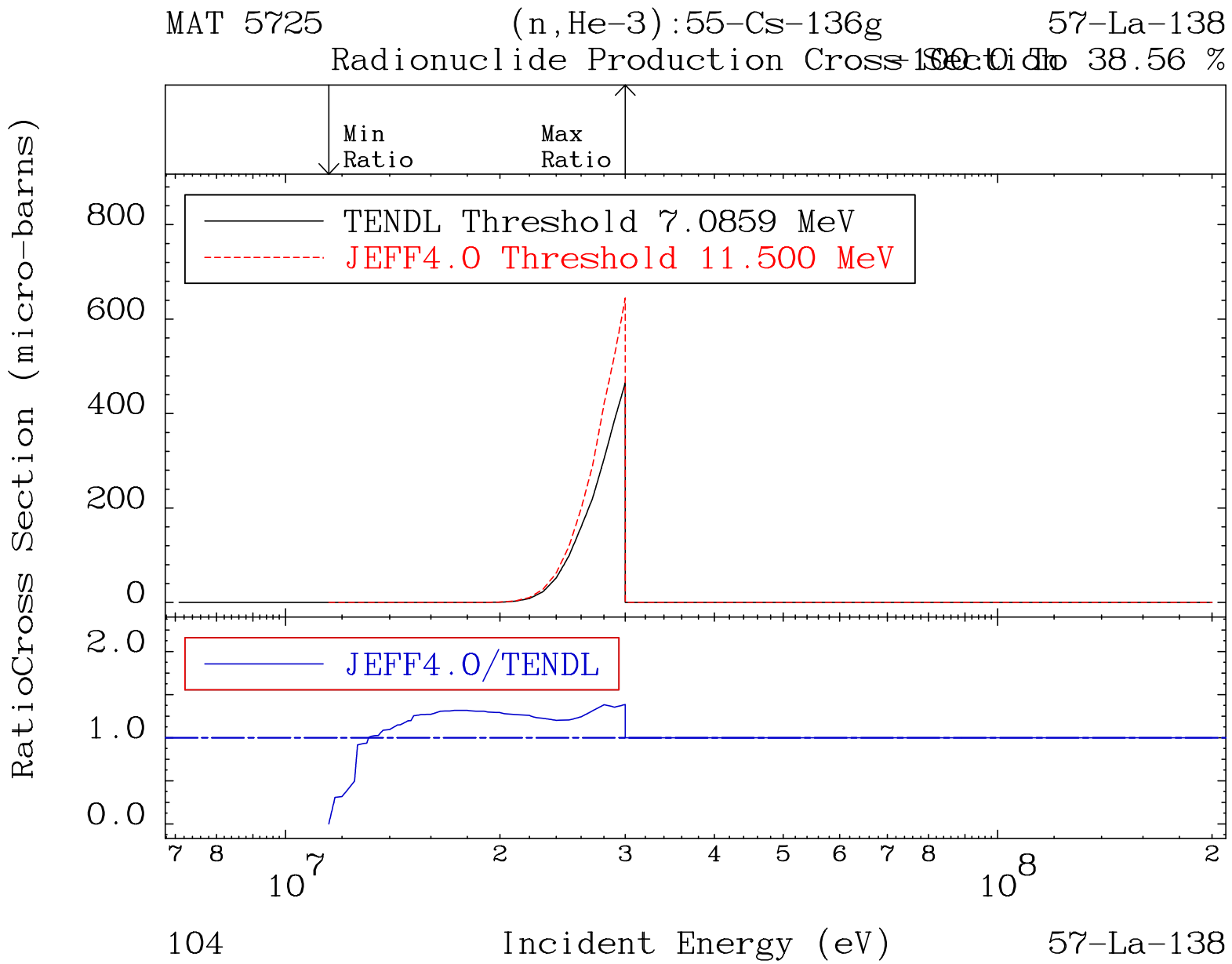

MAT 5725 (n,n') p α:54-Xe-133m1 57-La-138
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 8.8814 MeV
JEFF4.0 Threshold 8.8814 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
4
10^{0}
4
10^{-1}
9
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
99
Incident Energy (eV)
57-La-138

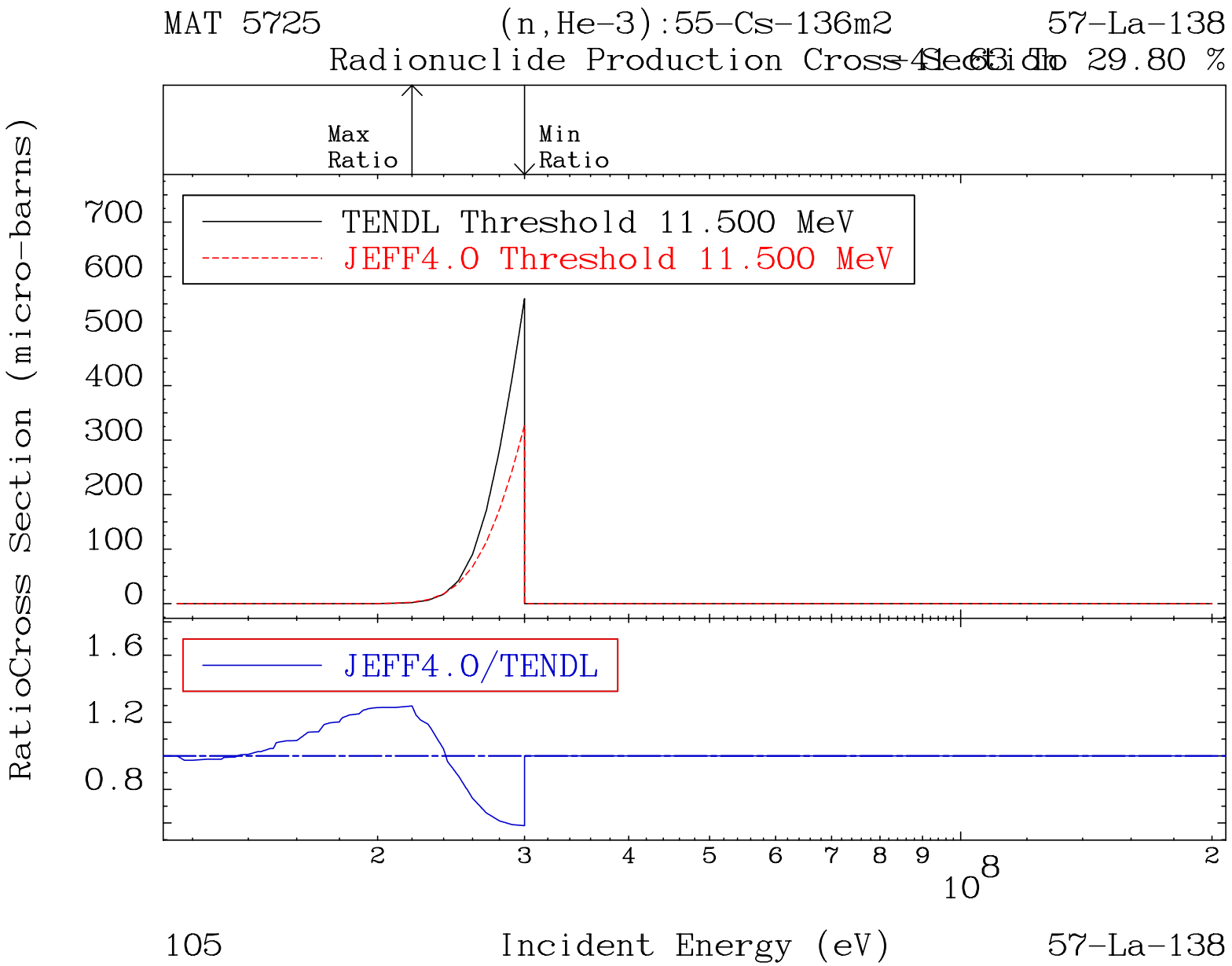

MAT 5725
(n,d):56-Ba-137g
57-La-138
Radionuclide Production Cross Section To 881.2 %
Min
Ratio
TENDL Threshold 3.8846 MeV
JEFF4.0 Threshold 3.8846 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
100
57-La-138

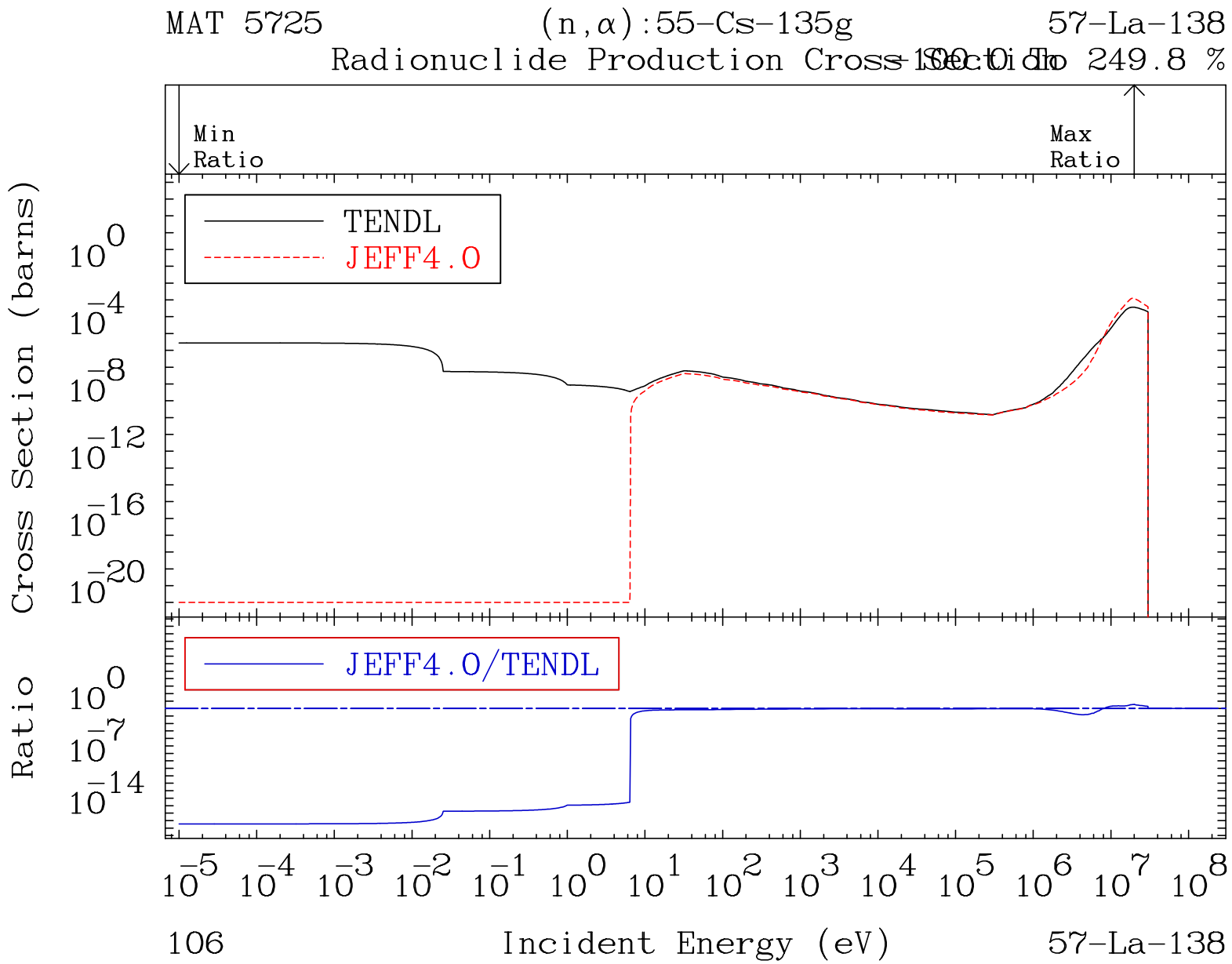

MAT 5725
(n,d):56-Ba-137m2
57-La-138
Radionuclide Production Cross Section
0.000 To 299.5 %
Max
Ratio
TENDL Threshold 5.6000 MeV
JEFF4.0 Threshold 5.6000 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
101
57-La-138

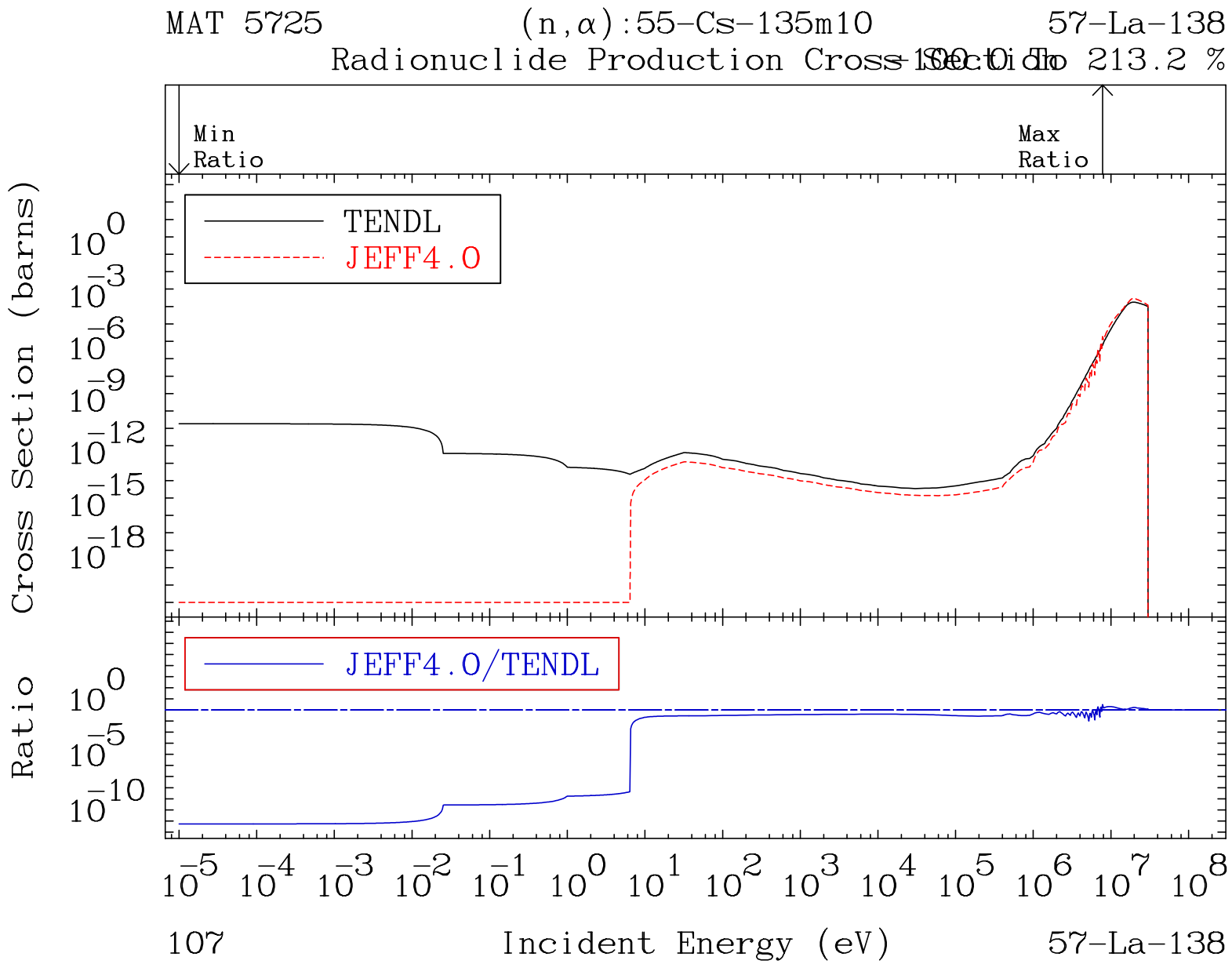

MAT 5725
(n,t):56-Ba-136g
57-La-138
Radionuclide Production Cross Section To 611.4 %
Max Ratio
Min Ratio
TENDL Threshold 4.5378 MeV
JEFF4.0 Threshold 4.5378 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
102
57-La-138

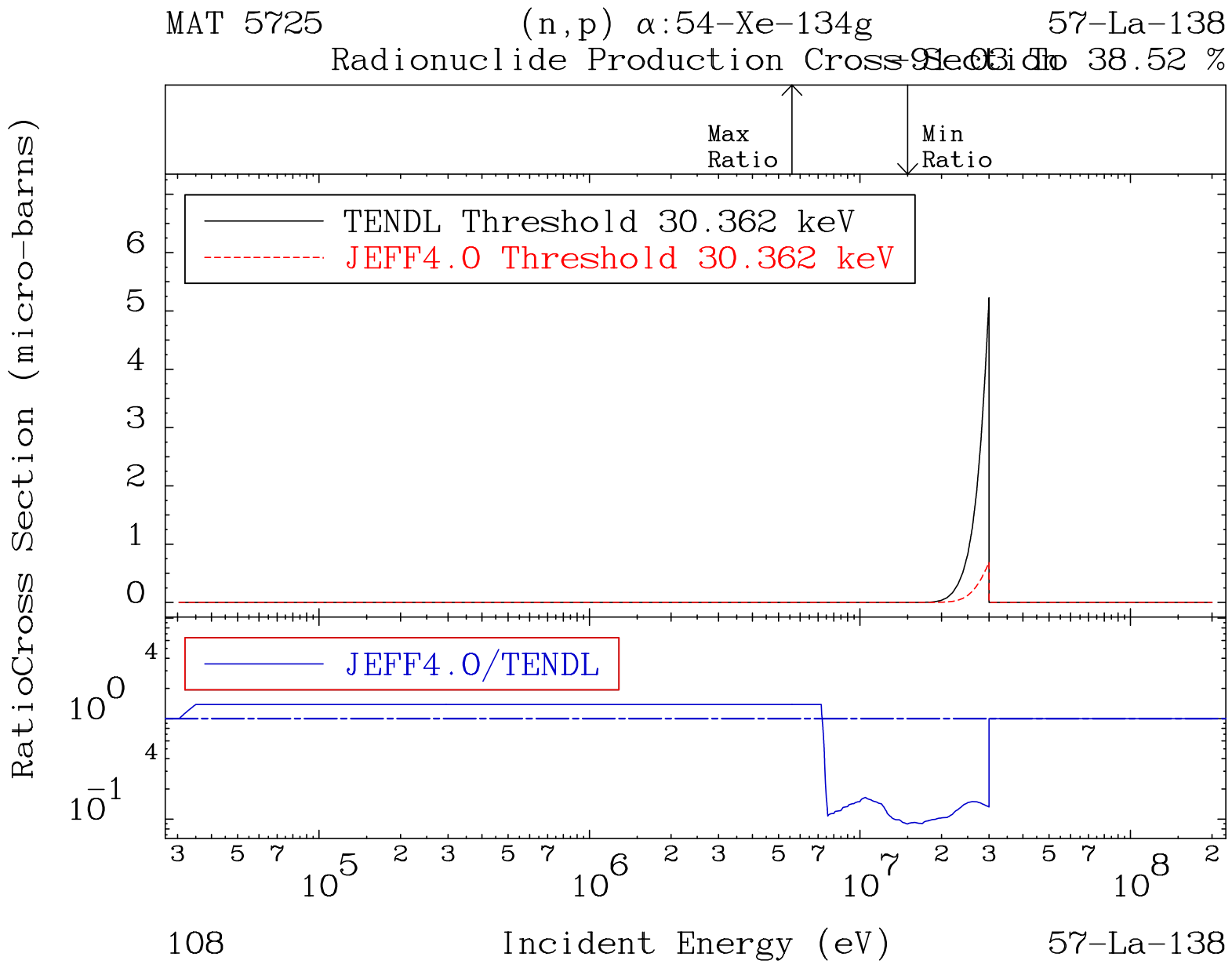

MAT 5725
(n,t):56-Ba-136m5
57-La-138
Radionuclide Production Cross Section
0.000 To 6719. %
Min Ratio
Max Ratio
TENDL Threshold 8.0000 MeV
JEFF4.0 Threshold 8.0000 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
103
57-La-138

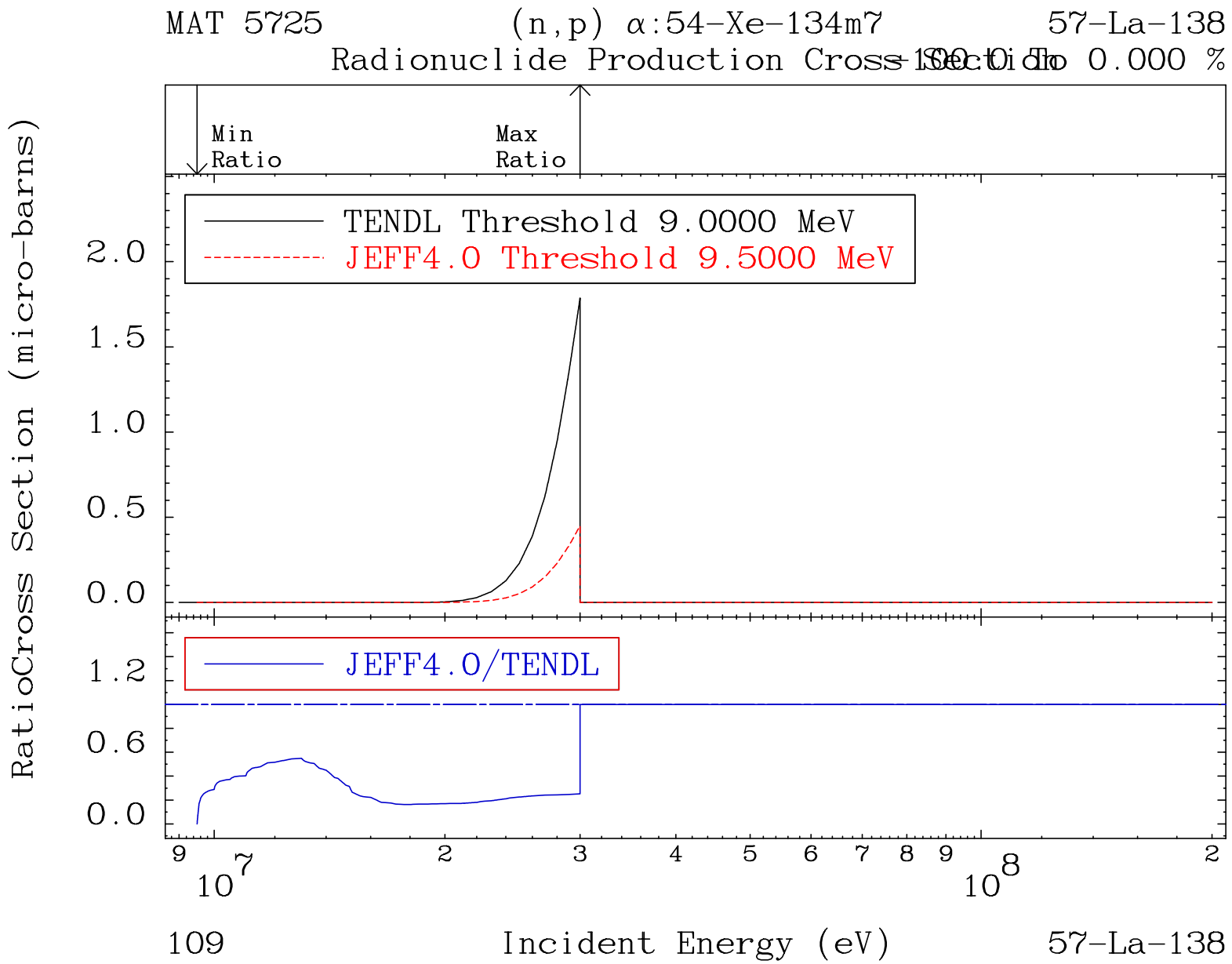

MAT 5725
(n,He-3):55-Cs-136g
57-La-138
Radionuclide Production Cross Section To 38.56 %
Min Ratio
Max Ratio
TENDL Threshold 7.0859 MeV
JEFF4.0 Threshold 11.500 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
104
Incident Energy (eV)
57-La-138

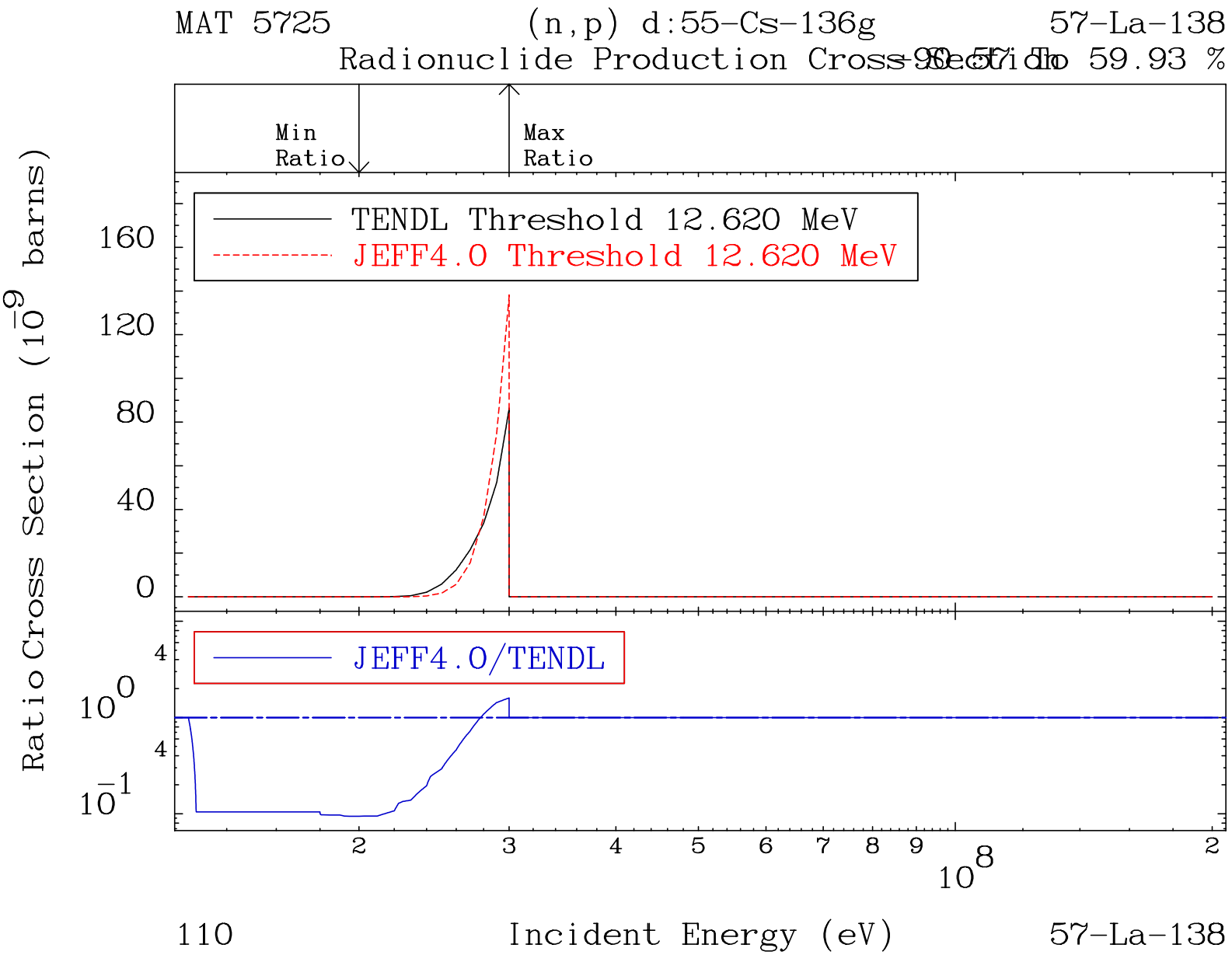

MAT 5725
(n,He-3):55-Cs-136m2
57-La-138
Radionuclide Production Cross-Section
Max Ratio
Min Ratio
TENDL Threshold 11.500 MeV
JEFF4.0 Threshold 11.500 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
105
57-La-138

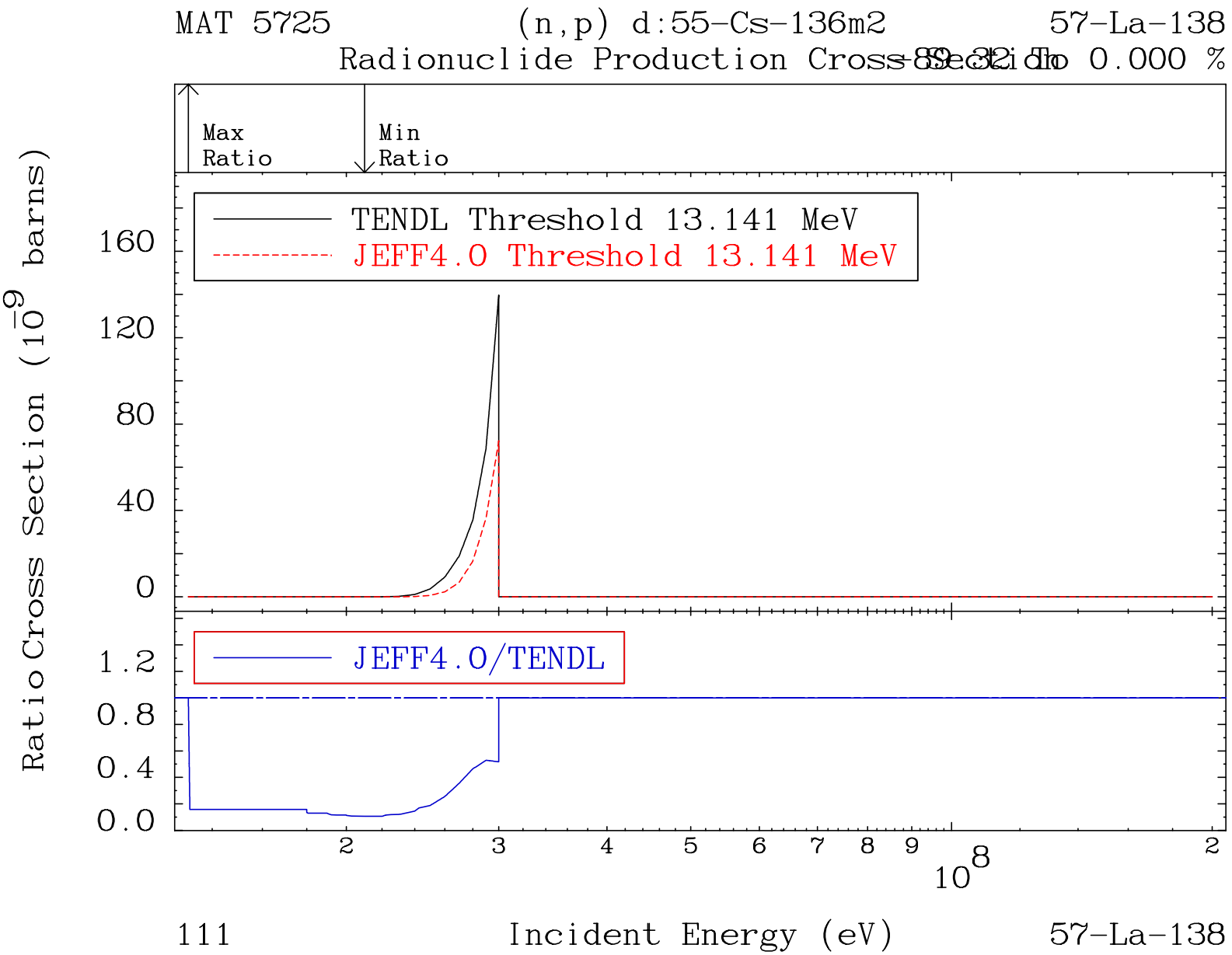

MAT 5725
(n,α):55-Cs-135g
57-La-138
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
106
57-La-138

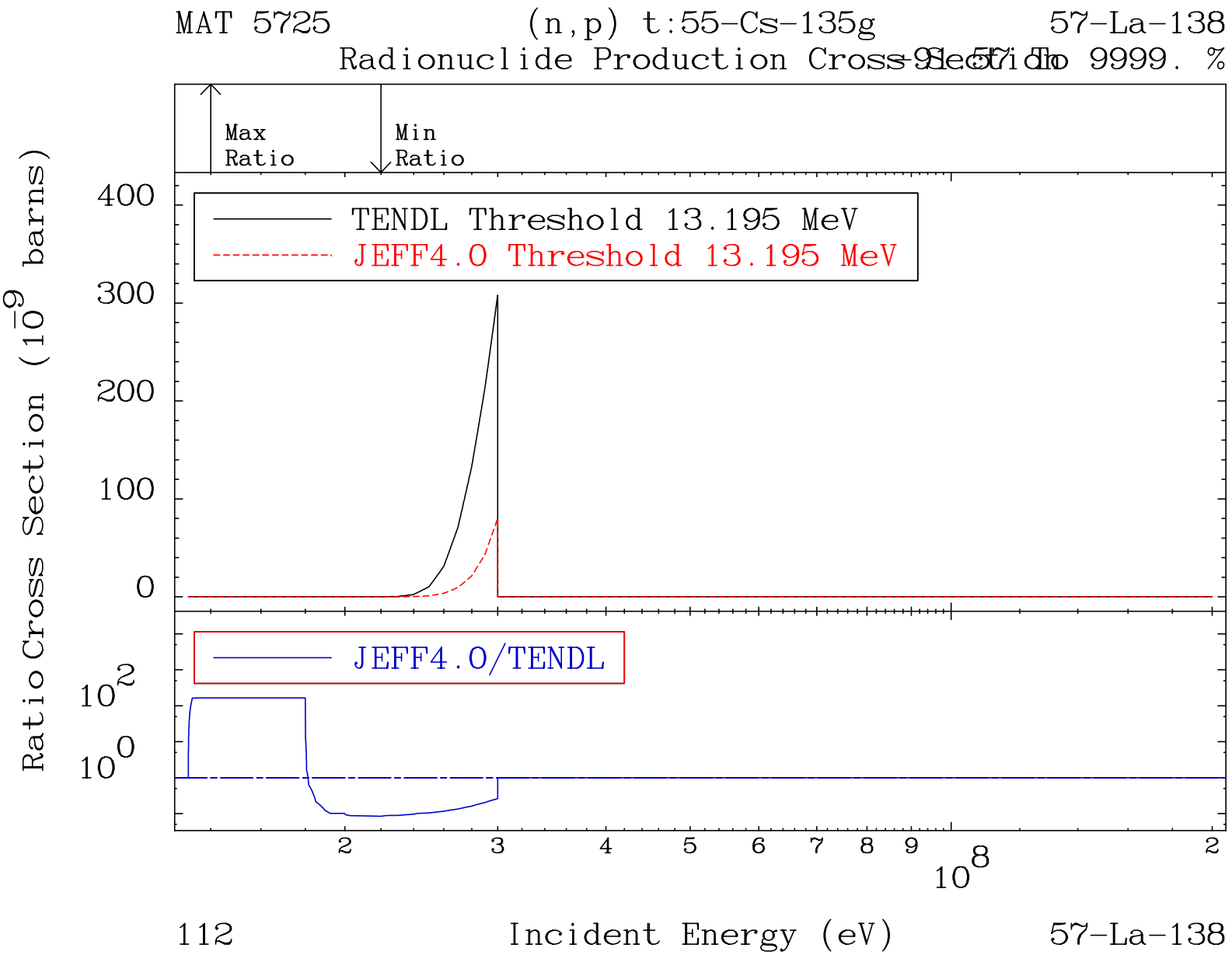

MAT 5725
(n,α):55-Cs-135m10
57-La-138
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
107
57-La-138

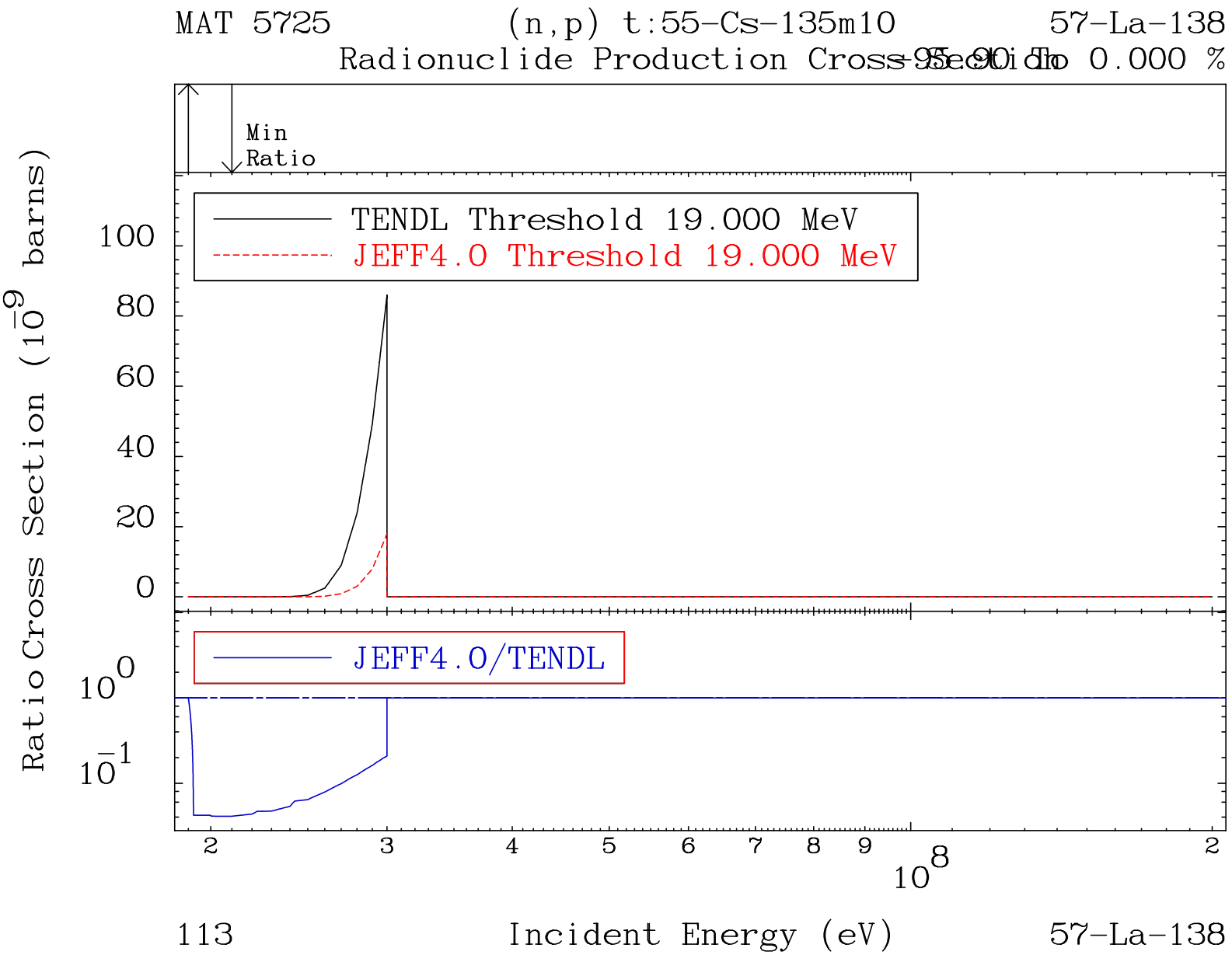

MAT 5725
(n,p) α:54-Xe-134g
57-La-138
Radionuclide Production Cross-Section To 38.52 %
Max Ratio
Min Ratio
TENDL Threshold 30.362 keV
JEFF4.0 Threshold 30.362 keV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
108
57-La-138

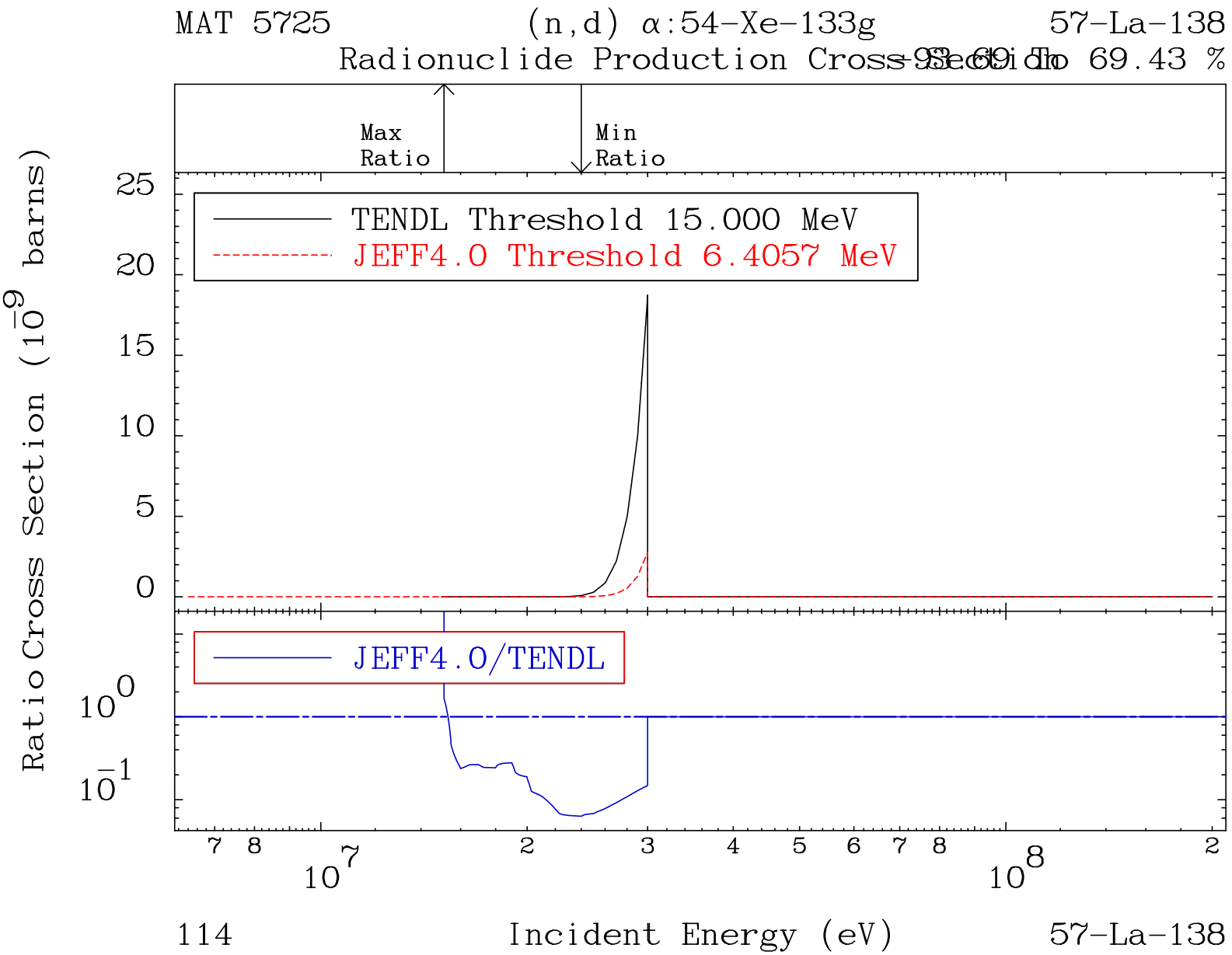

MAT 5725
(n,p) α:54-Xe-134m7
57-La-138
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 9.0000 MeV
JEFF4.0 Threshold 9.5000 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
109
57-La-138

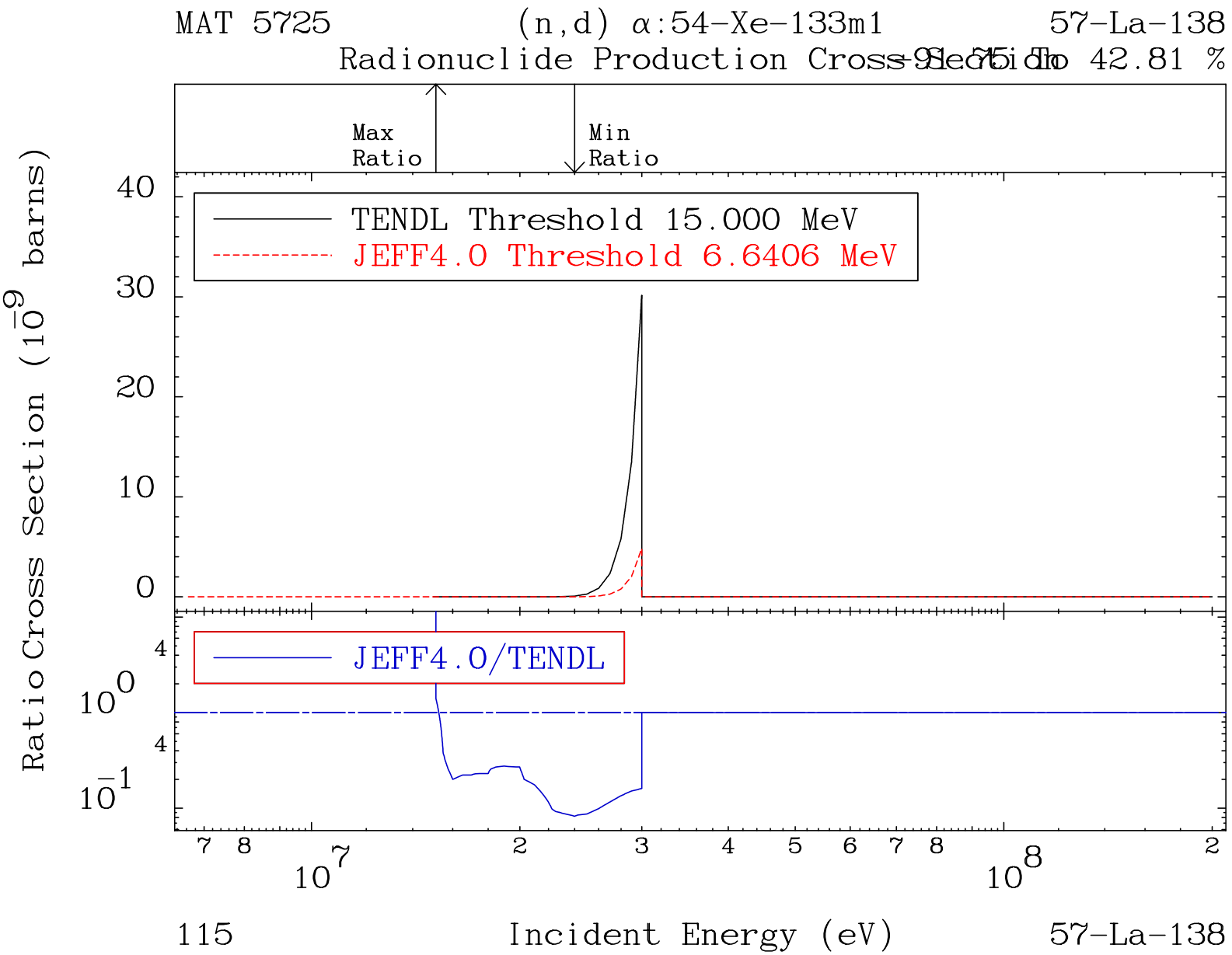

MAT 5725
(n,p) d:55-Cs-136g
57-La-138
Radionuclide Production Cross Section To 59.93 %
Min Ratio
Max Ratio
TENDL Threshold 12.620 MeV
JEFF4.0 Threshold 12.620 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
160
120
80
40
0
4
10^{0}
4
10^{-1}
2
3
4
5
6
7
8
9
10^{8}
2
110
Incident Energy (eV)
57-La-138


MAT 5725
(n,p) d:55-Cs-136m2
57-La-138
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 13.141 MeV
JEFF4.0 Threshold 13.141 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
160
120
80
40
0
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
111
Incident Energy (eV)
57-La-138


MAT 5725
(n,p) t:55-Cs-135g
57-La-138
Radionuclide Production Cross-Section
Max Ratio
Min Ratio
TENDL Threshold 13.195 MeV
JEFF4.0 Threshold 13.195 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
112
57-La-138


MAT 5725
(n,p) t:55-Cs-135m10
57-La-138
Radionuclide Production Cross Section To 0.000 %
Min
Ratio
TENDL Threshold 19.000 MeV
JEFF4.0 Threshold 19.000 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
100
80
60
40
20
0
10^{0}
10^{-1}
2
3
4
5
6
7
8
9
10^{8}
2
113
Incident Energy (eV)
57-La-138


MAT 5725
(n,d) α:54-Xe-133g
57-La-138
Radionuclide Production Cross-Section To 69.43 %
Max Ratio
Min Ratio
TENDL Threshold 15.000 MeV
JEFF4.0 Threshold 6.4057 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
25
20
15
10
5
0
10^{0}
10^{-1}
7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
114
Incident Energy (eV)
57-La-138


MAT 5725
(n,d) α:54-Xe-133m1
57-La-138
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 15.000 MeV
JEFF4.0 Threshold 6.6406 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
115
57-La-138