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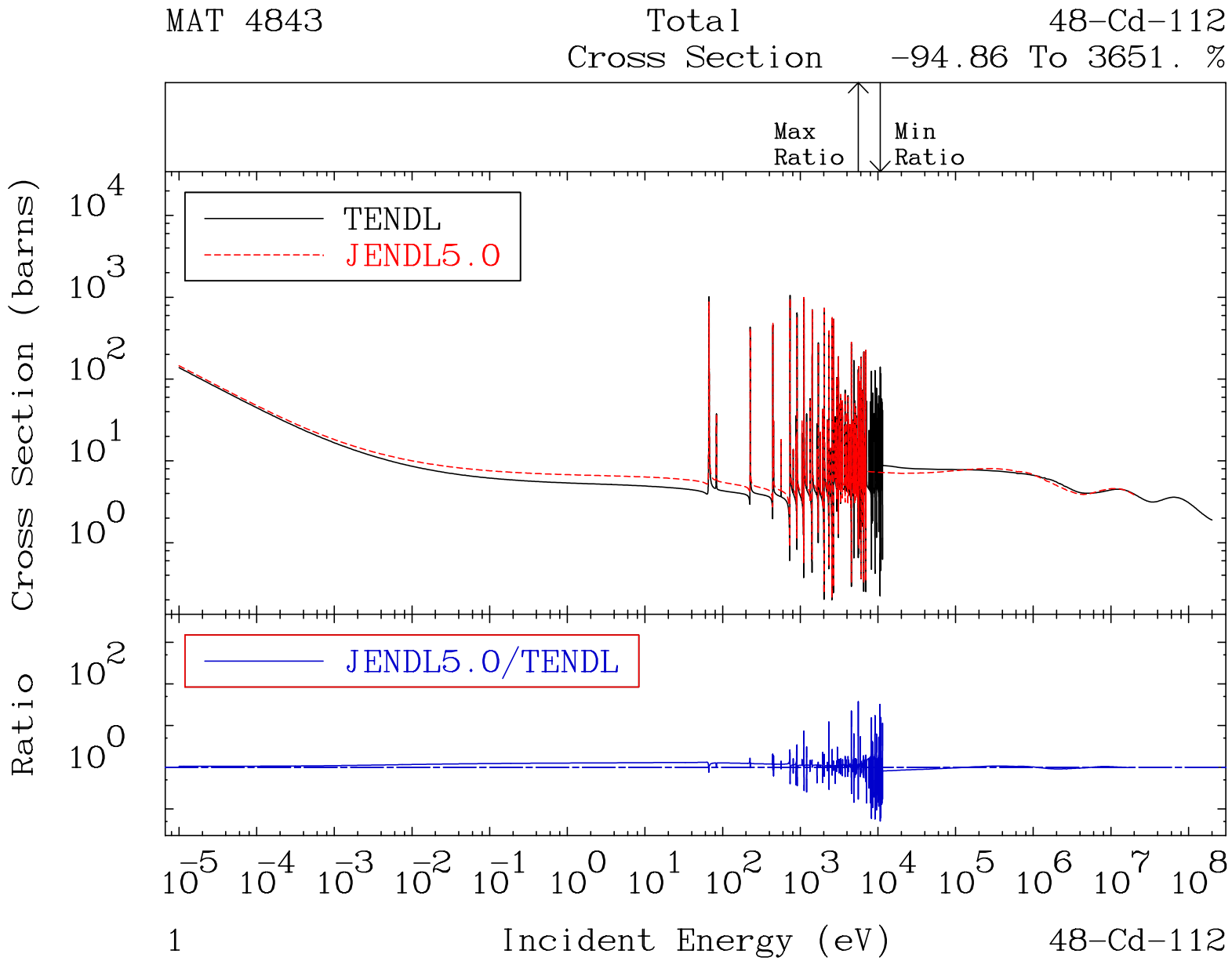
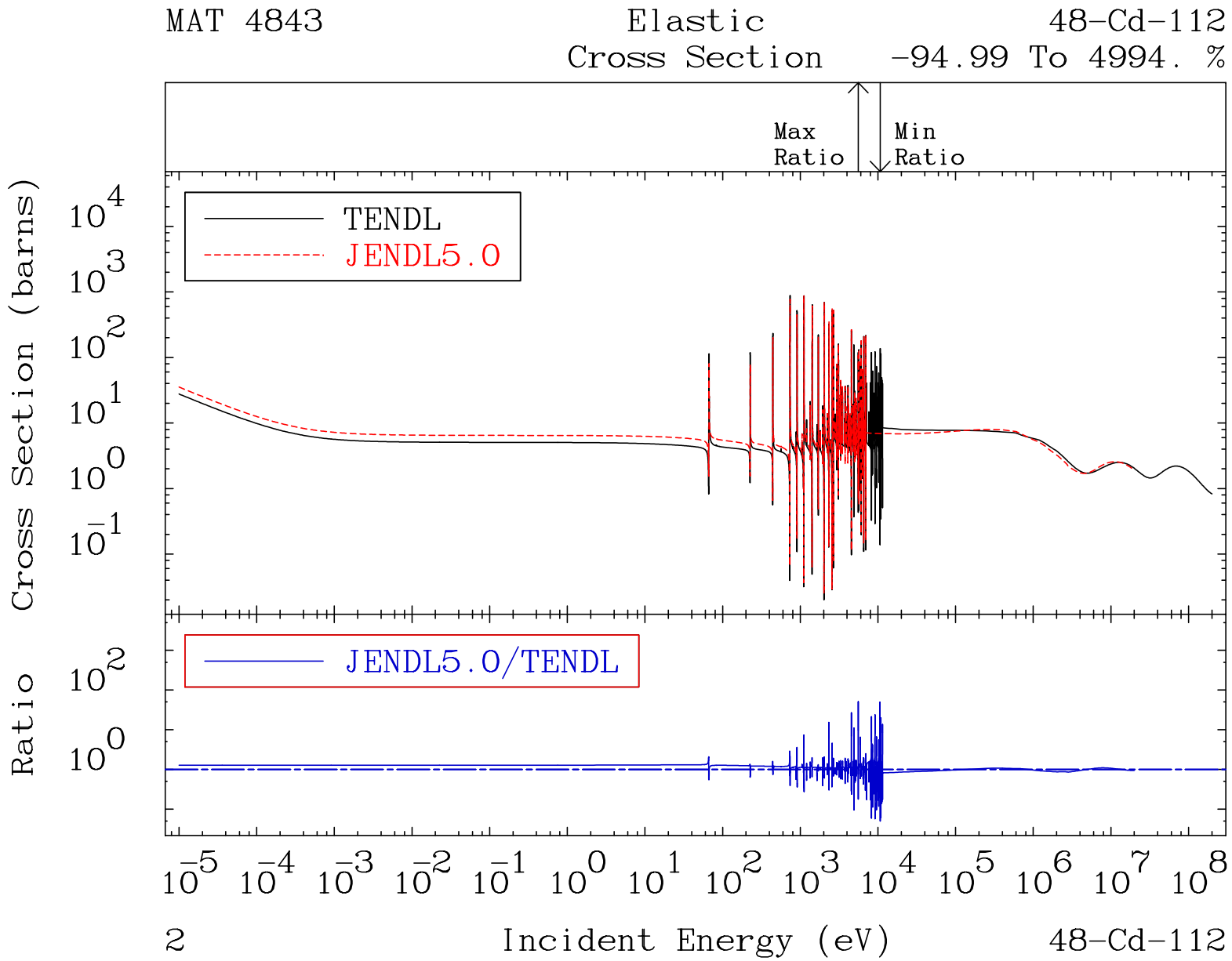
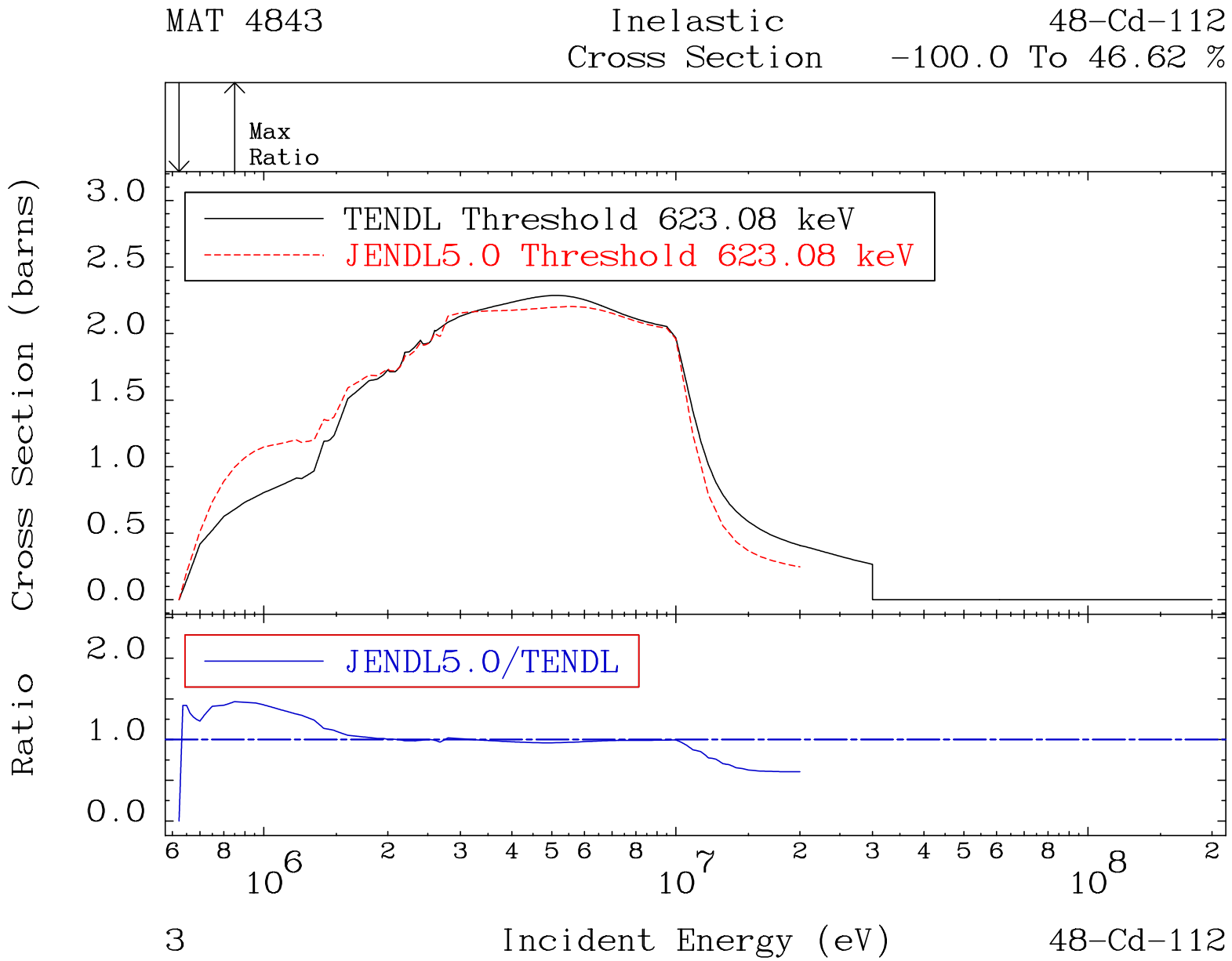
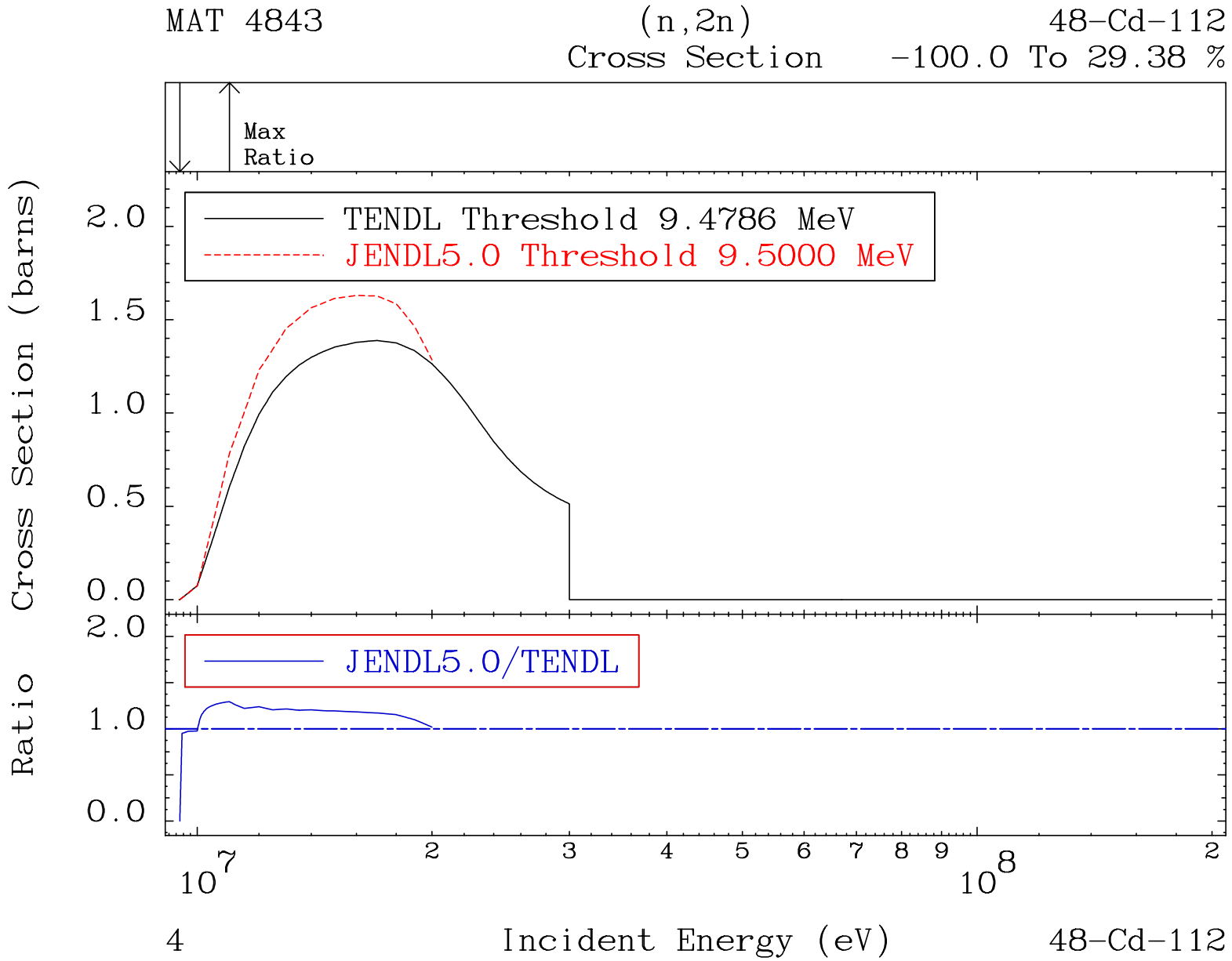
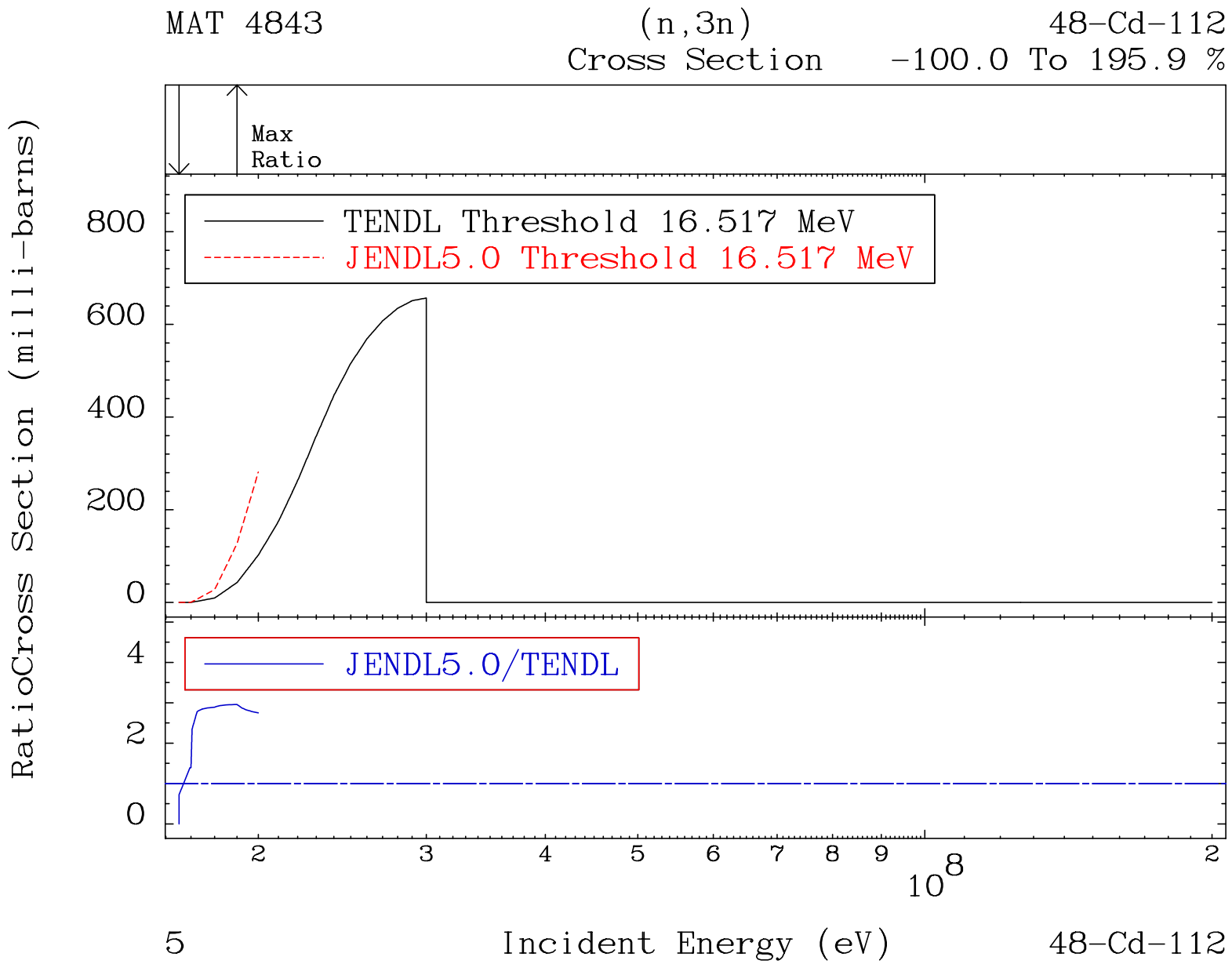
Press Mouse Button to Start

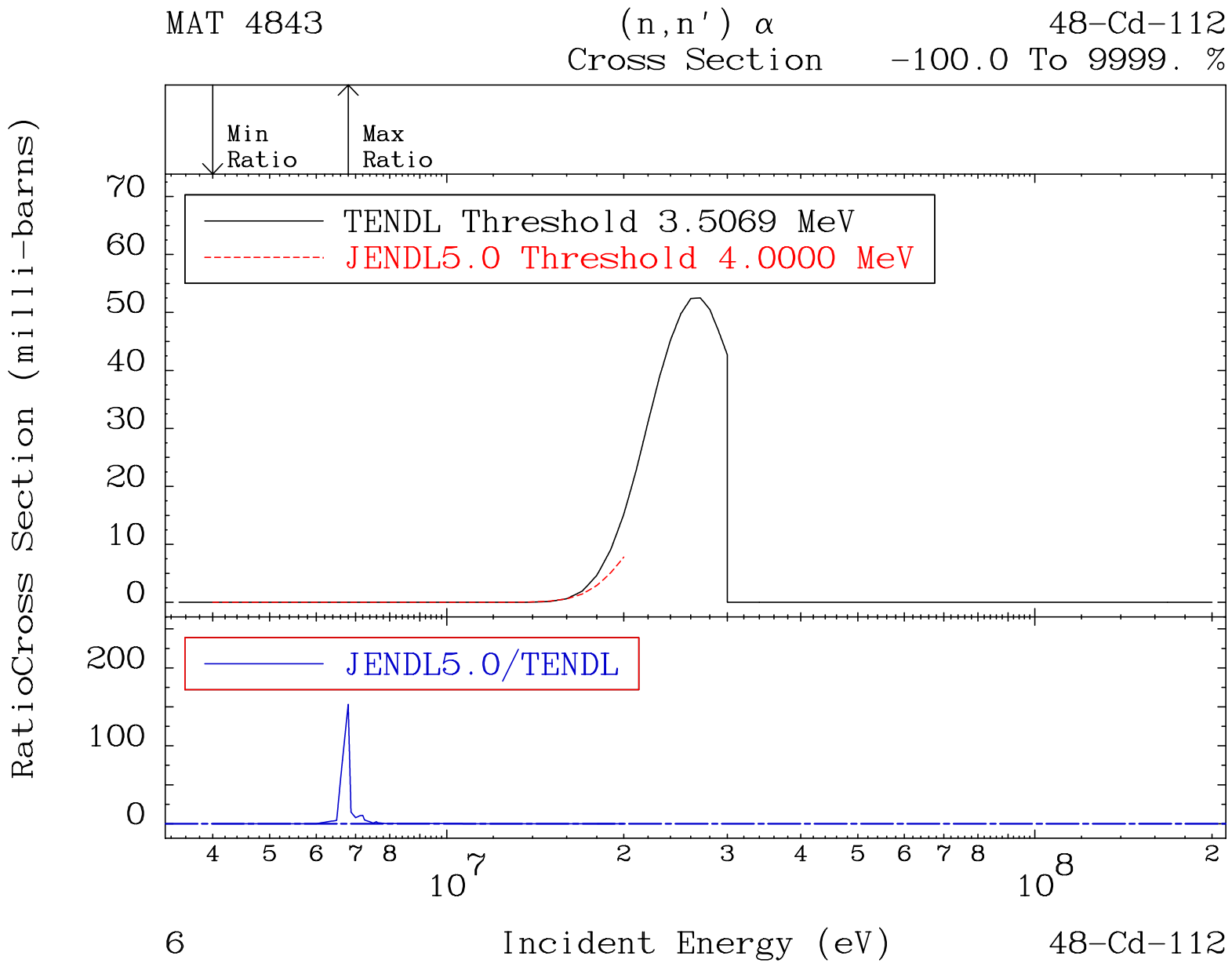

MAT 4843
Total
Cross Section
48-Cd-112
-94.86 To 3651. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
48-Cd-112
1

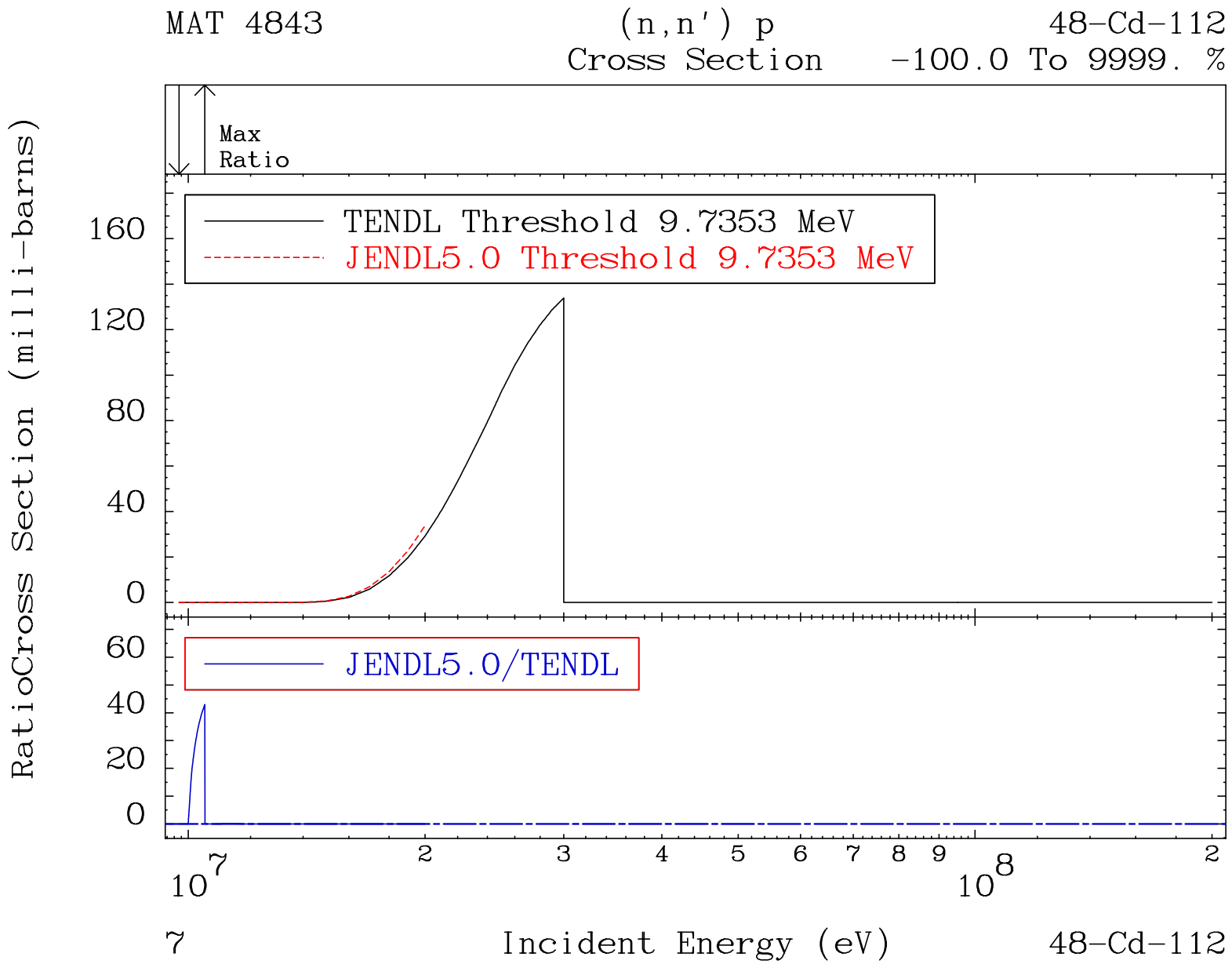

MAT 4843
Elastic
Cross Section
48-Cd-112
-94.99 To 4994. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
48-Cd-112

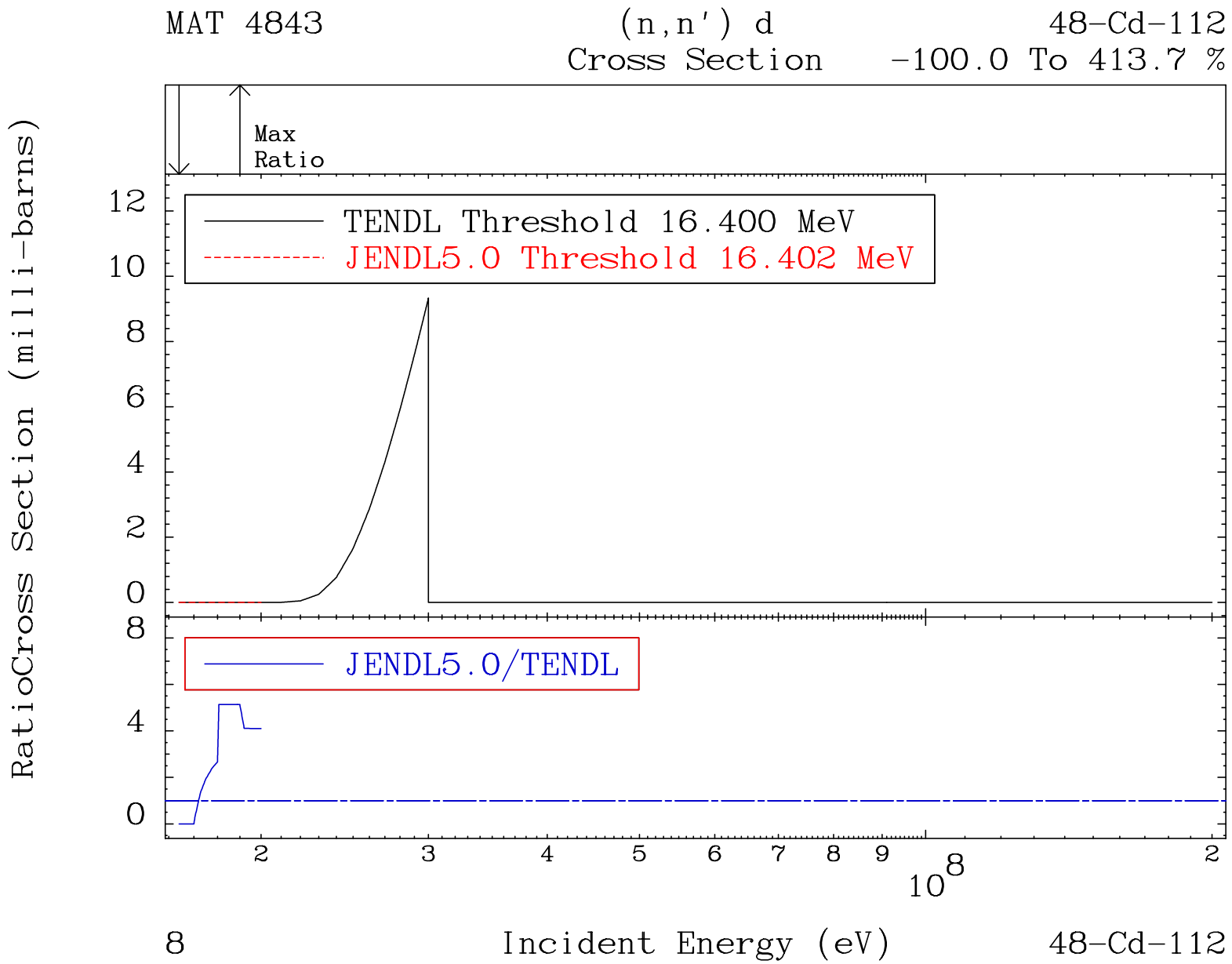

MAT 4843
Inelastic
Cross Section
48-Cd-112
-100.0 To 46.62 %
Max
Ratio
TENDL Threshold 623.08 keV
JENDL5.0 Threshold 623.08 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
48-Cd-112

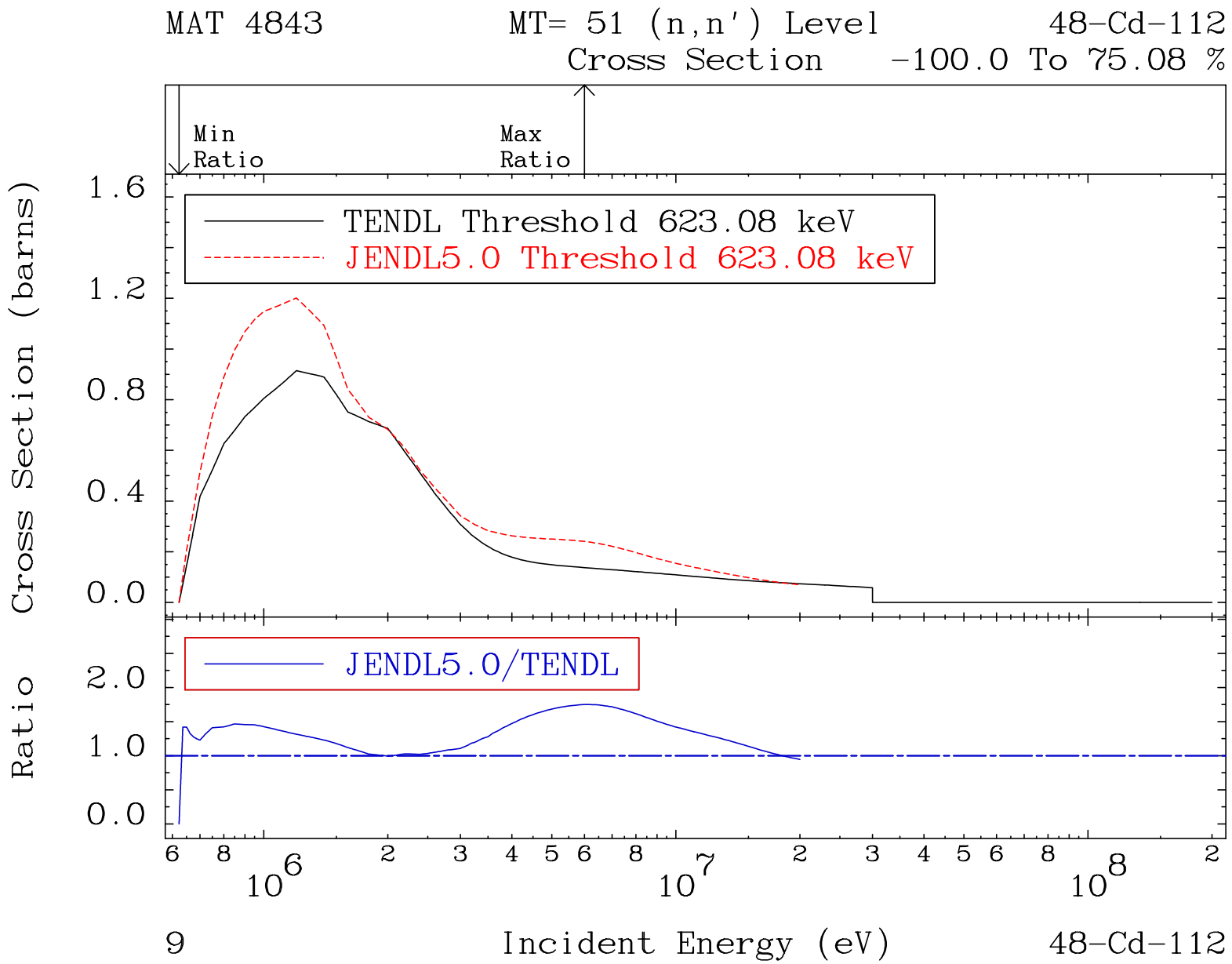

MAT 4843
(n,2n)
Cross Section
48-Cd-112
-100.0 To 29.38 %
Max
Ratio
TENDL Threshold 9.4786 MeV
JENDL5.0 Threshold 9.5000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
48-Cd-112

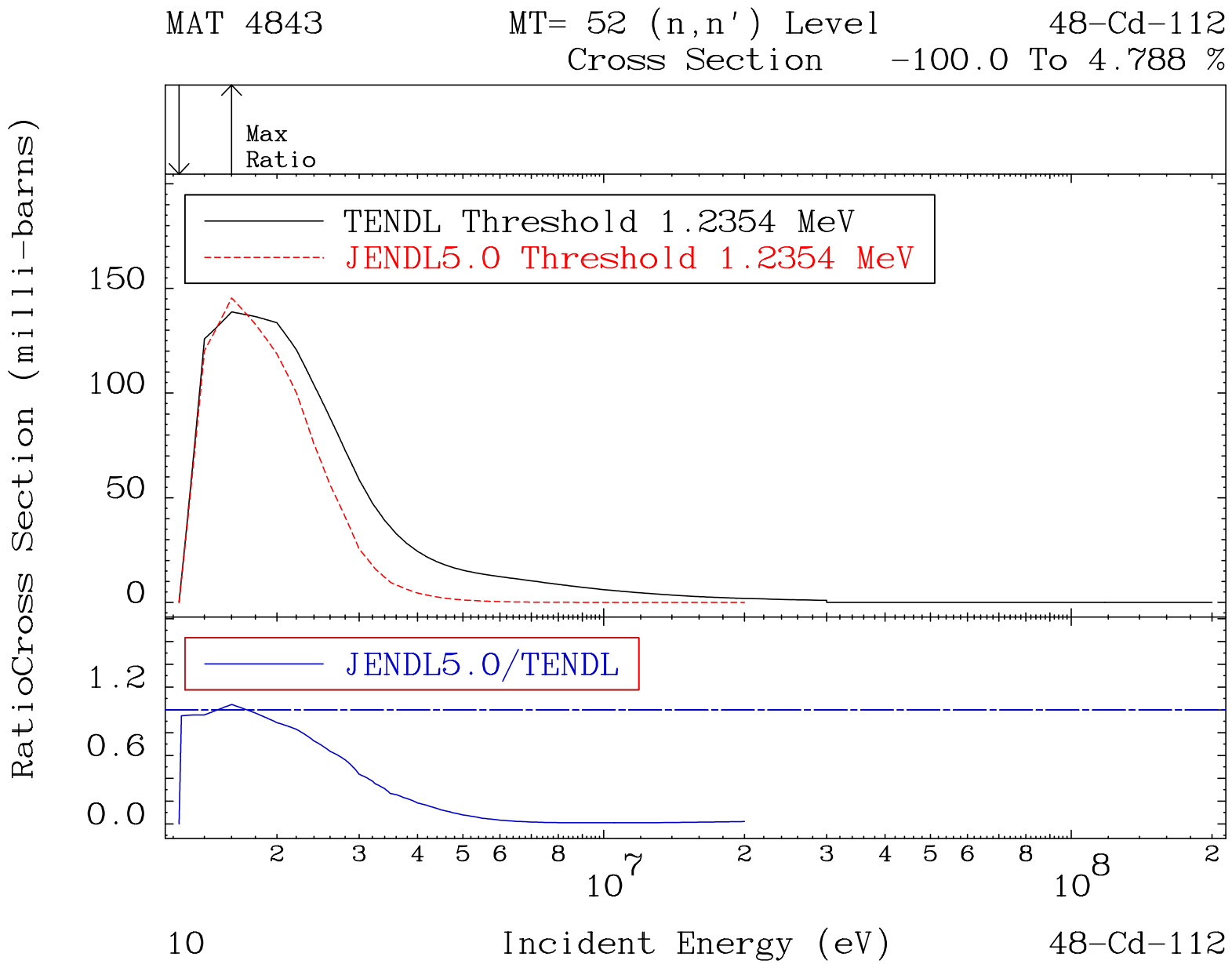

MAT 4843
(n,3n)
48-Cd-112
Cross Section
-100.0 To 195.9 %
Max
Ratio
TENDL Threshold 16.517 MeV
JENDL5.0 Threshold 16.517 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
48-Cd-112

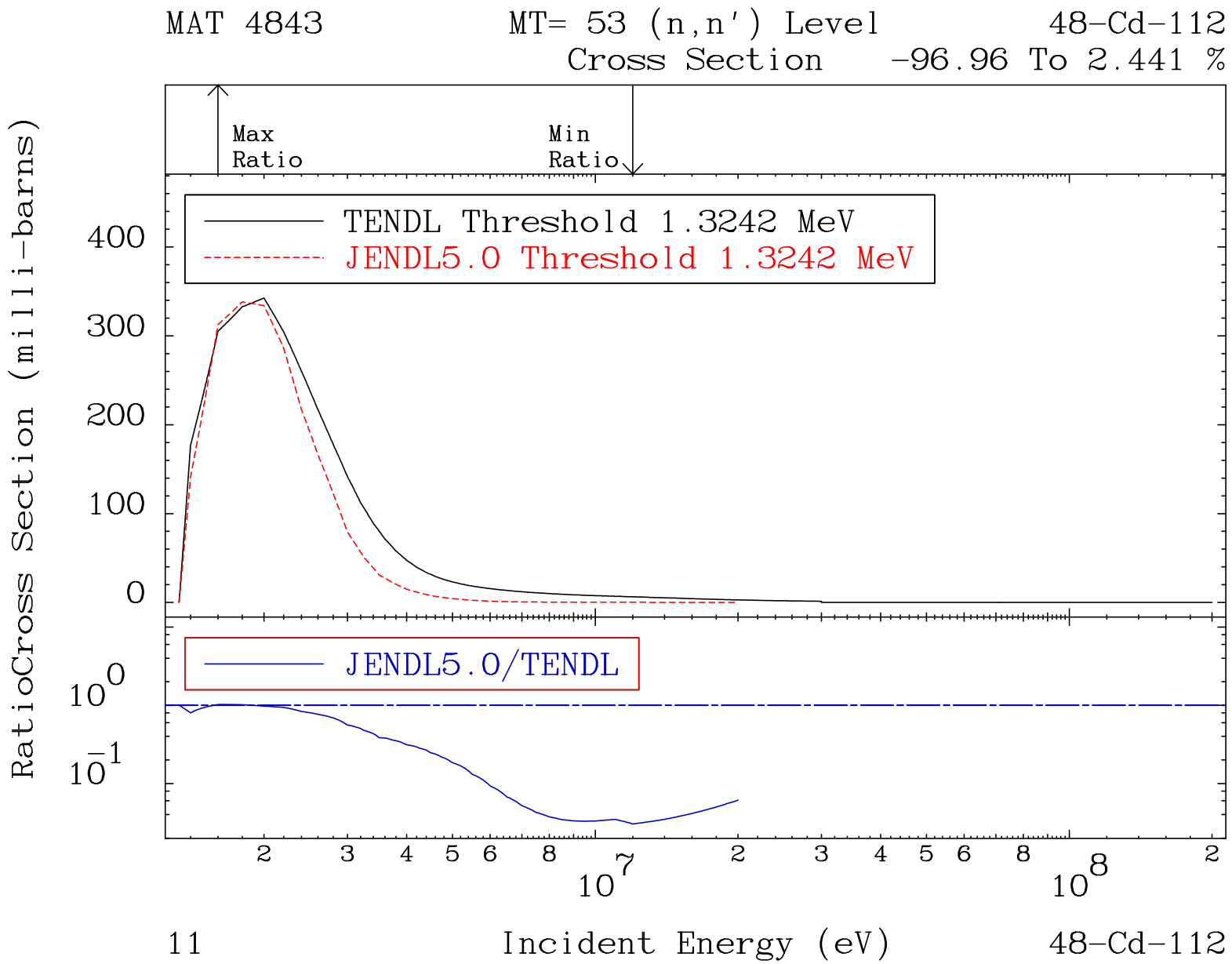

MAT 4843
(n,n') α
Cross Section
48-Cd-112
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.5069 MeV
JENDL5.0 Threshold 4.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
200
100
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
6
Incident Energy (eV)
48-Cd-112

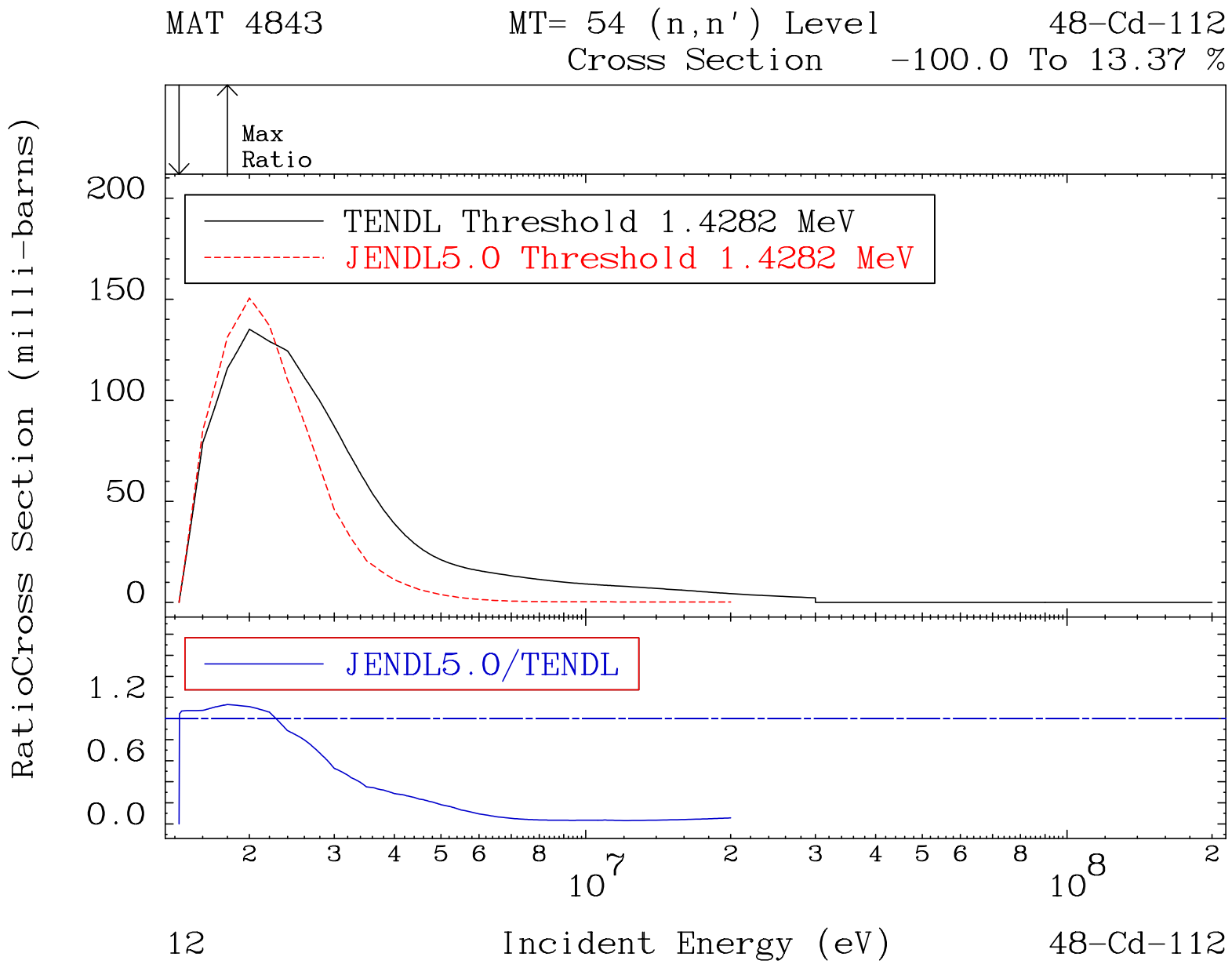

MAT 4843
(n,n') p
Cross Section
48-Cd-112
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 9.7353 MeV
JENDL5.0 Threshold 9.7353 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
60
40
20
0
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
48-Cd-112

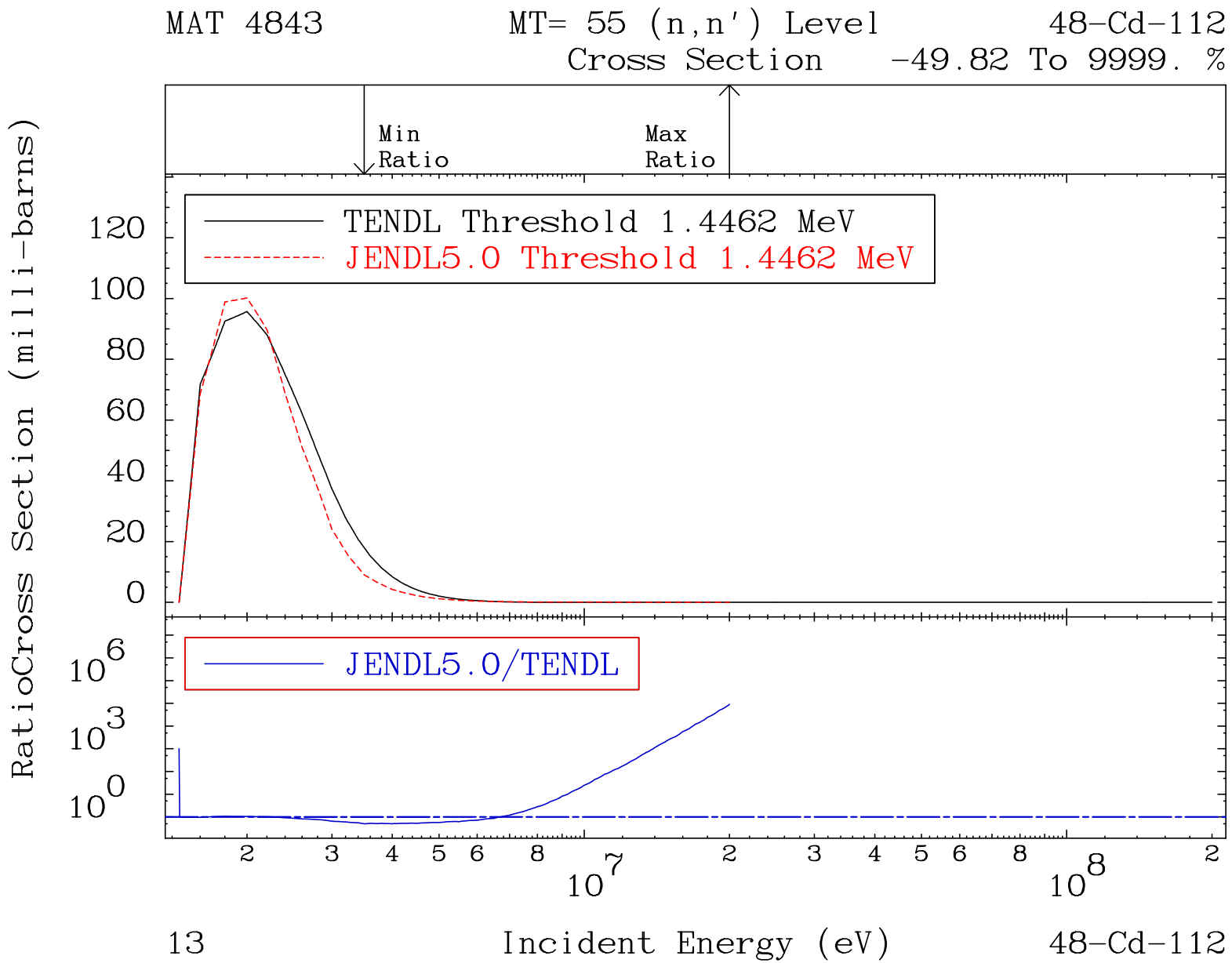

MAT 4843
(n,n') d
Cross Section
48-Cd-112
-100.0 To 413.7 %
Max
Ratio
TENDL Threshold 16.400 MeV
JENDL5.0 Threshold 16.402 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
48-Cd-112
8
12
10
8
6
4
2
0
8
4
0
2
3
4
5
6
7
8
9
2
10^8

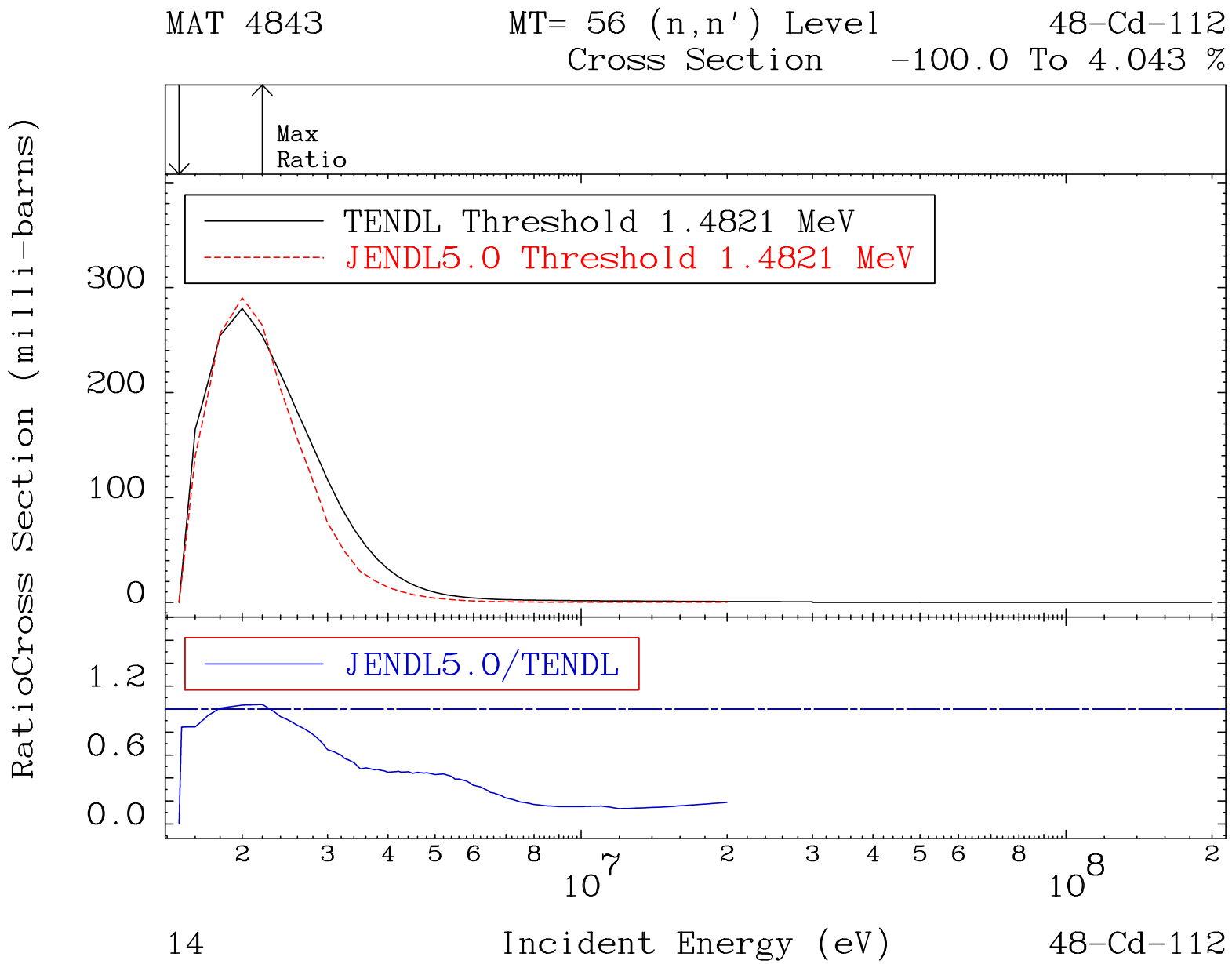

MAT 4843
MT= 51 (n,n') Level
48-Cd-112
Cross Section
-100.0 To 75.08 %
Min Ratio
Max Ratio
TENDL Threshold 623.08 keV
JENDL5.0 Threshold 623.08 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
9
48-Cd-112

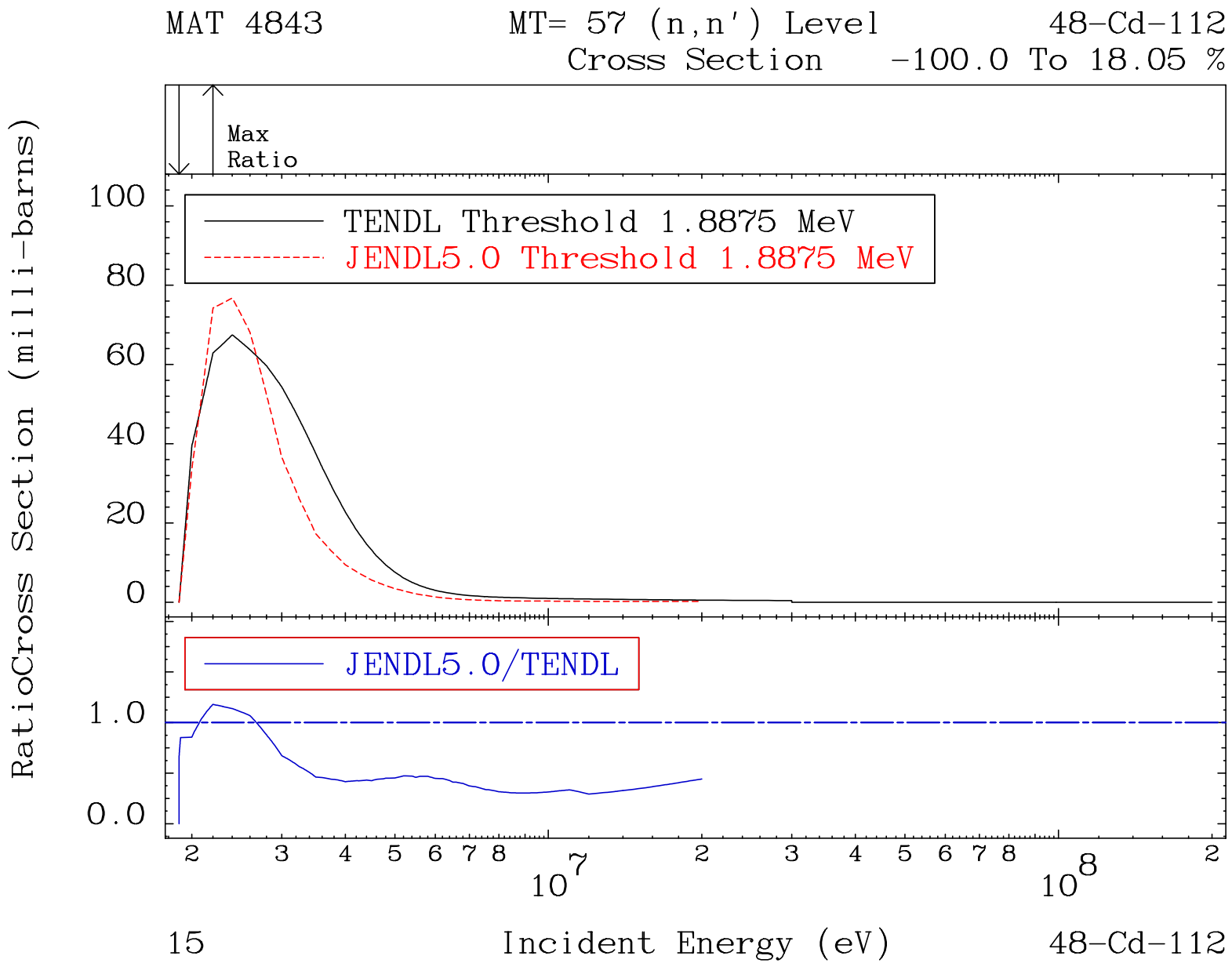

MAT 4843
MT= 52 (n,n') Level
48-Cd-112
Cross Section
-100.0 To 4.788 %
Max
Ratio
TENDL Threshold 1.2354 MeV
JENDL5.0 Threshold 1.2354 MeV
150
100
50
0
JENDL5.0/TENDL
1.2
0.6
0.0
RatioCross Section (milli-barns)
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
10
Incident Energy (eV)
48-Cd-112

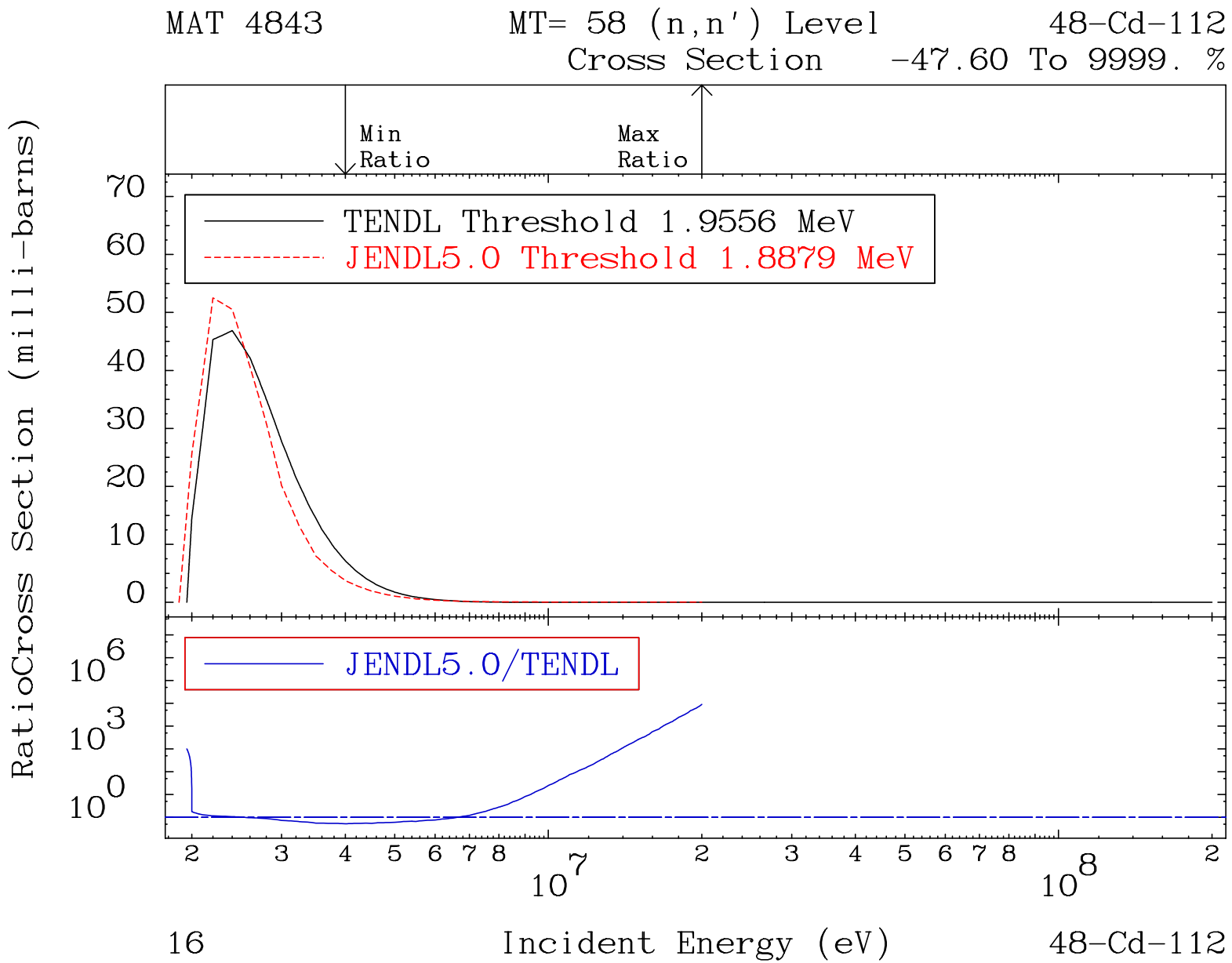

MAT 4843
MT= 53 (n,n') Level
48-Cd-112
Cross Section
-96.96 To 2.441 %
Max Ratio
Min Ratio
TENDL Threshold 1.3242 MeV
JENDL5.0 Threshold 1.3242 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
10^0
10^-1
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
48-Cd-112

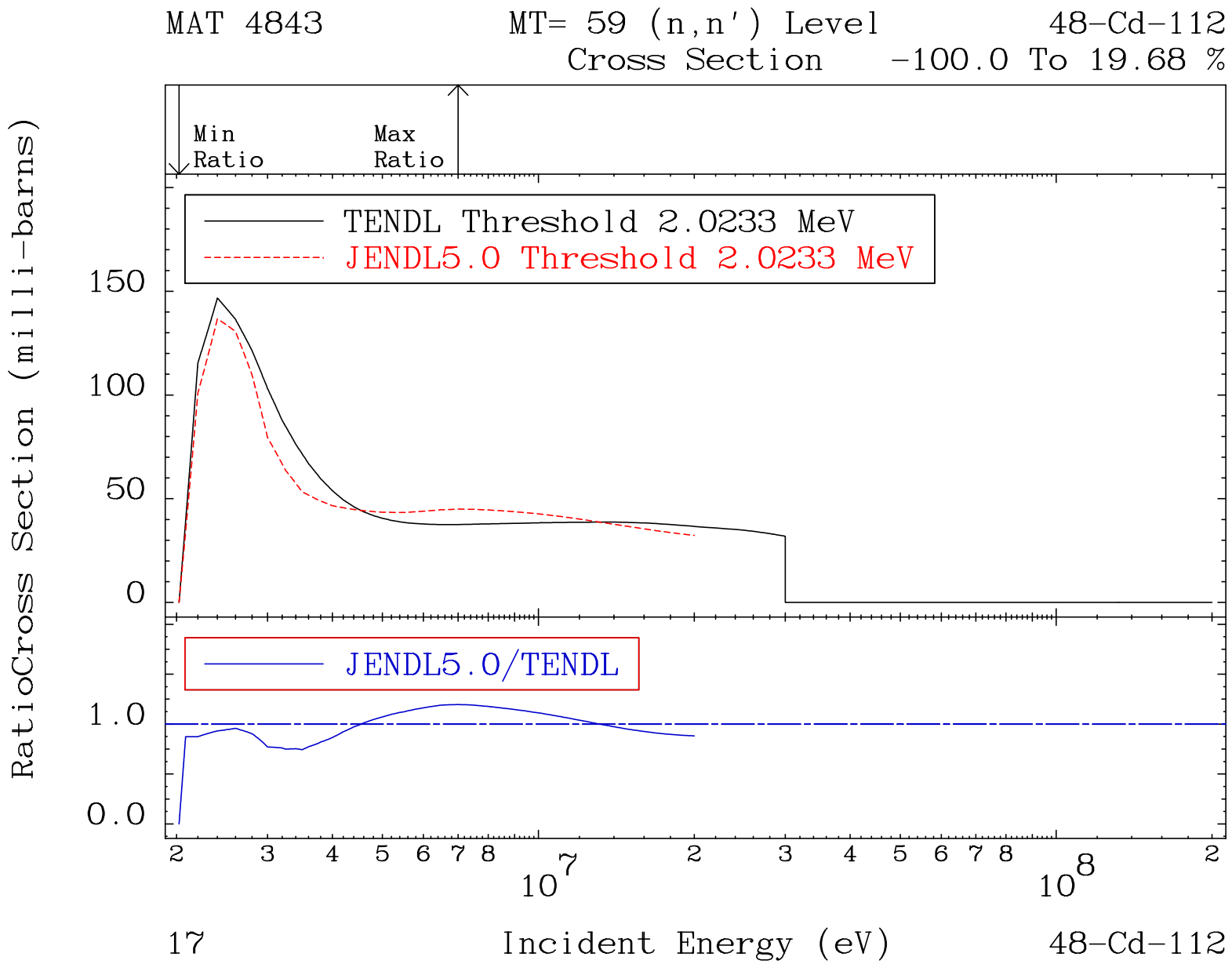

MAT 4843
MT= 54 (n,n') Level
48-Cd-112
Cross Section
-100.0 To 13.37 %
Max
Ratio
200
150
100
50
0
TENDL Threshold 1.4282 MeV
JENDL5.0 Threshold 1.4282 MeV
1.2
0.6
0.0
JENDL5.0/TENDL
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
RatioCross Section (milli-barns)
12
Incident Energy (eV)
48-Cd-112

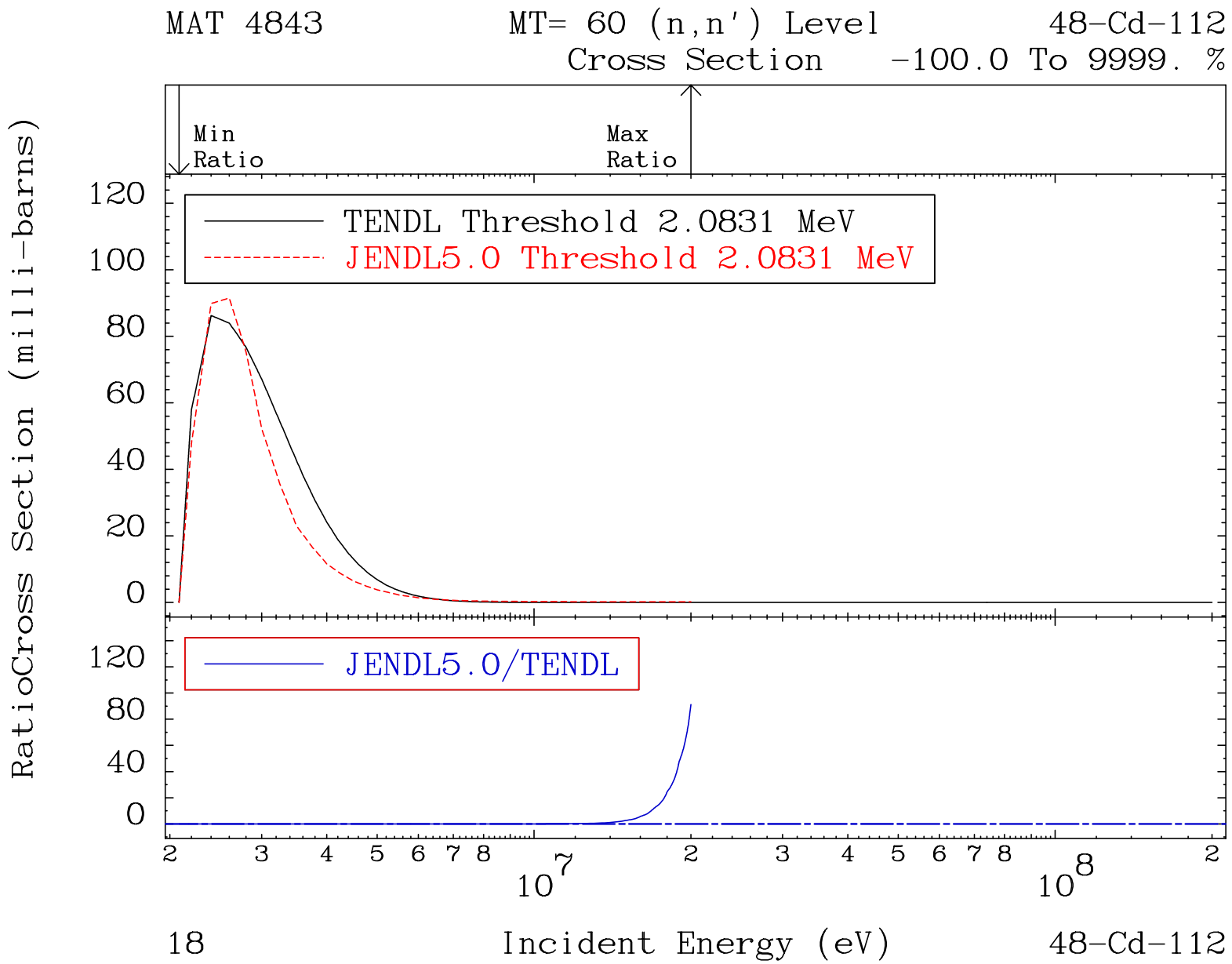

MAT 4843
MT= 55 (n,n') Level
48-Cd-112
Cross Section -49.82 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.4462 MeV
JENDL5.0 Threshold 1.4462 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^6
10^3
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
48-Cd-112

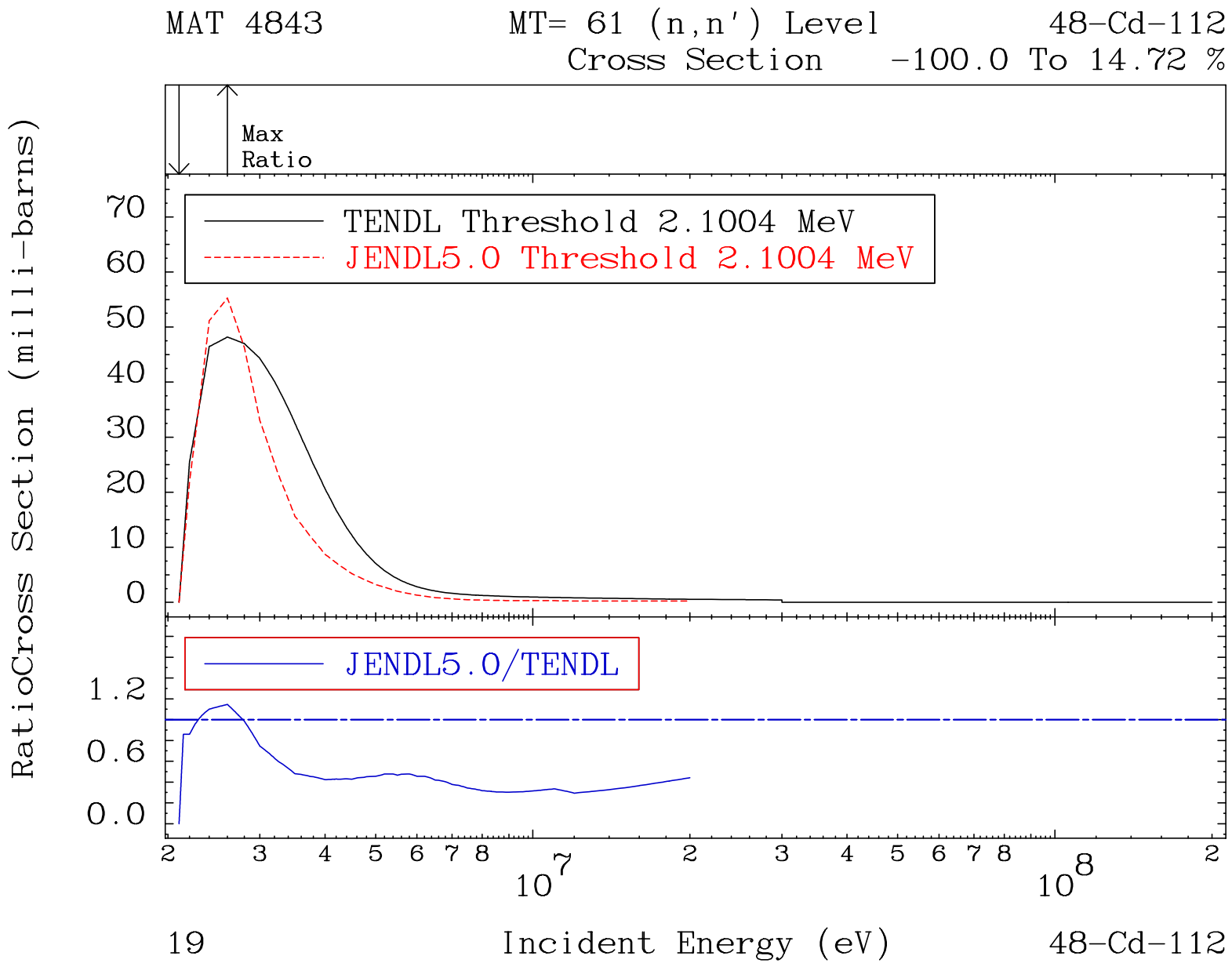

MAT 4843
MT= 56 (n,n') Level
48-Cd-112
Cross Section
-100.0 To 4.043 %
Max
Ratio
TENDL Threshold 1.4821 MeV
JENDL5.0 Threshold 1.4821 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
1.2
0.6
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
14
Incident Energy (eV)
48-Cd-112

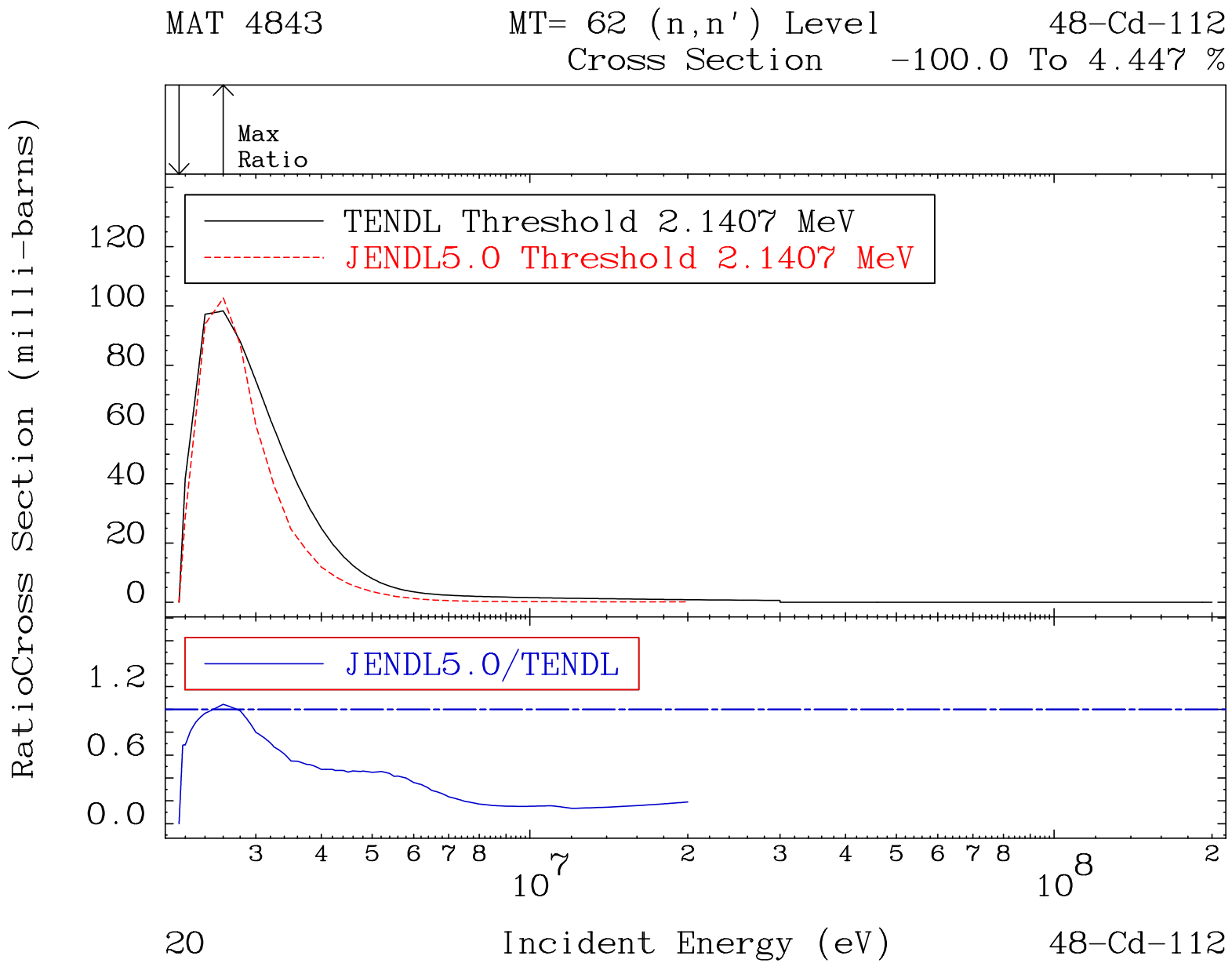

MAT 4843
MT= 57 (n,n') Level
48-Cd-112
Cross Section
-100.0 To 18.05 %
Max
Ratio
TENDL Threshold 1.8875 MeV
JENDL5.0 Threshold 1.8875 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
48-Cd-112

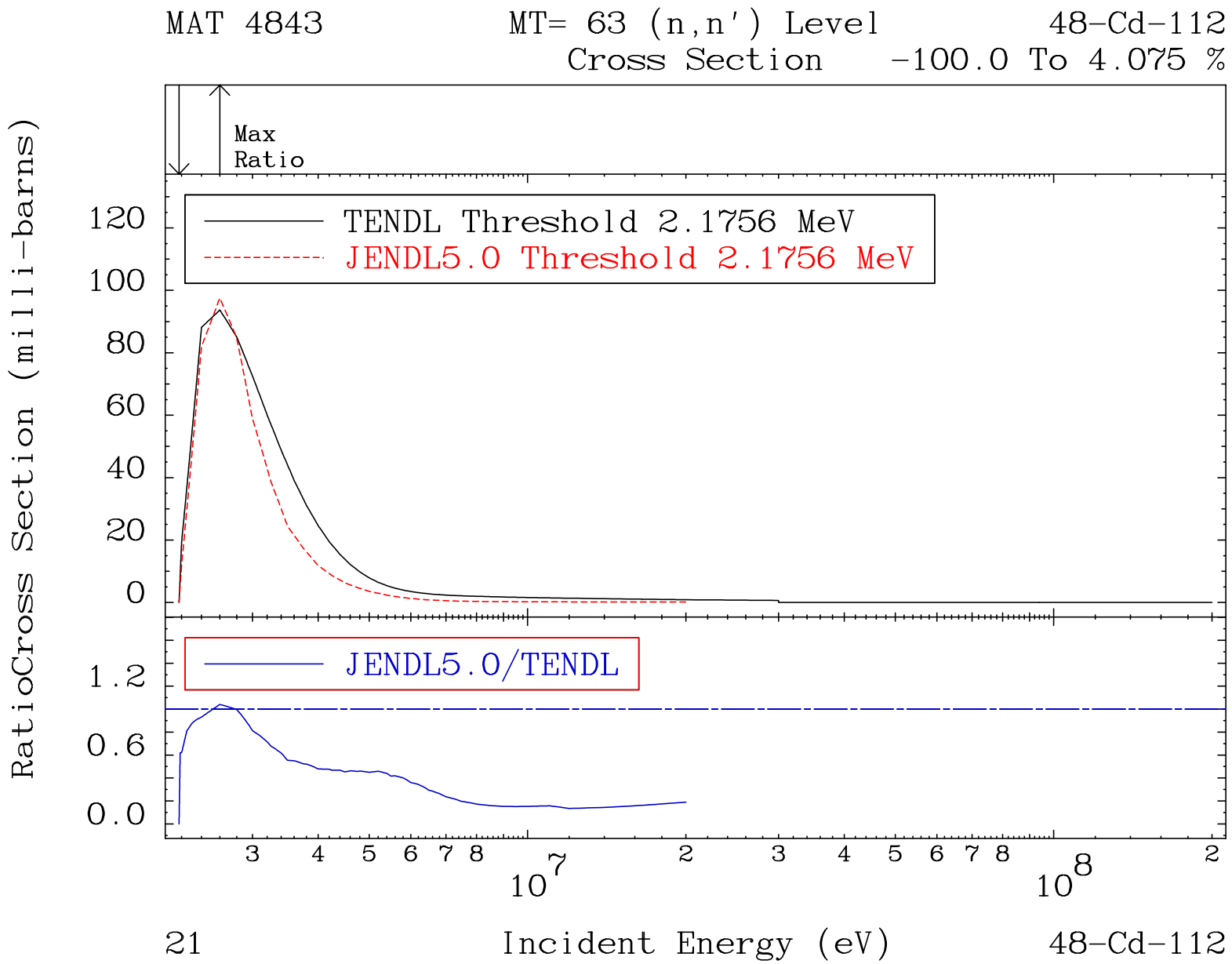

MAT 4843
MT= 58 (n,n') Level
48-Cd-112
Cross Section -47.60 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.9556 MeV
JENDL5.0 Threshold 1.8879 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
16
48-Cd-112

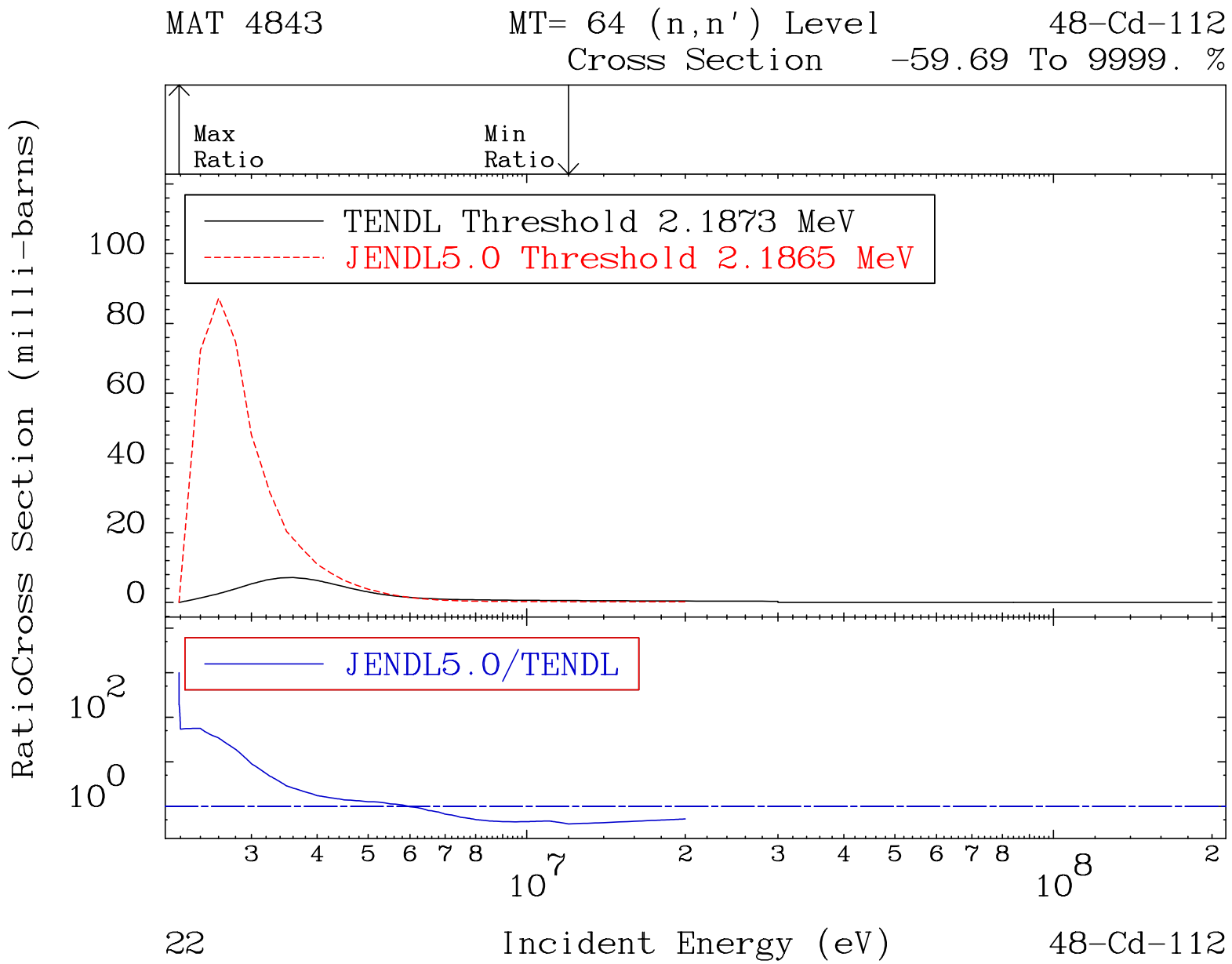

MAT 4843
MT= 59 (n,n') Level
48-Cd-112
Cross Section
-100.0 To 19.68 %
Min Ratio
Max Ratio
TENDL Threshold 2.0233 MeV
JENDL5.0 Threshold 2.0233 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
48-Cd-112

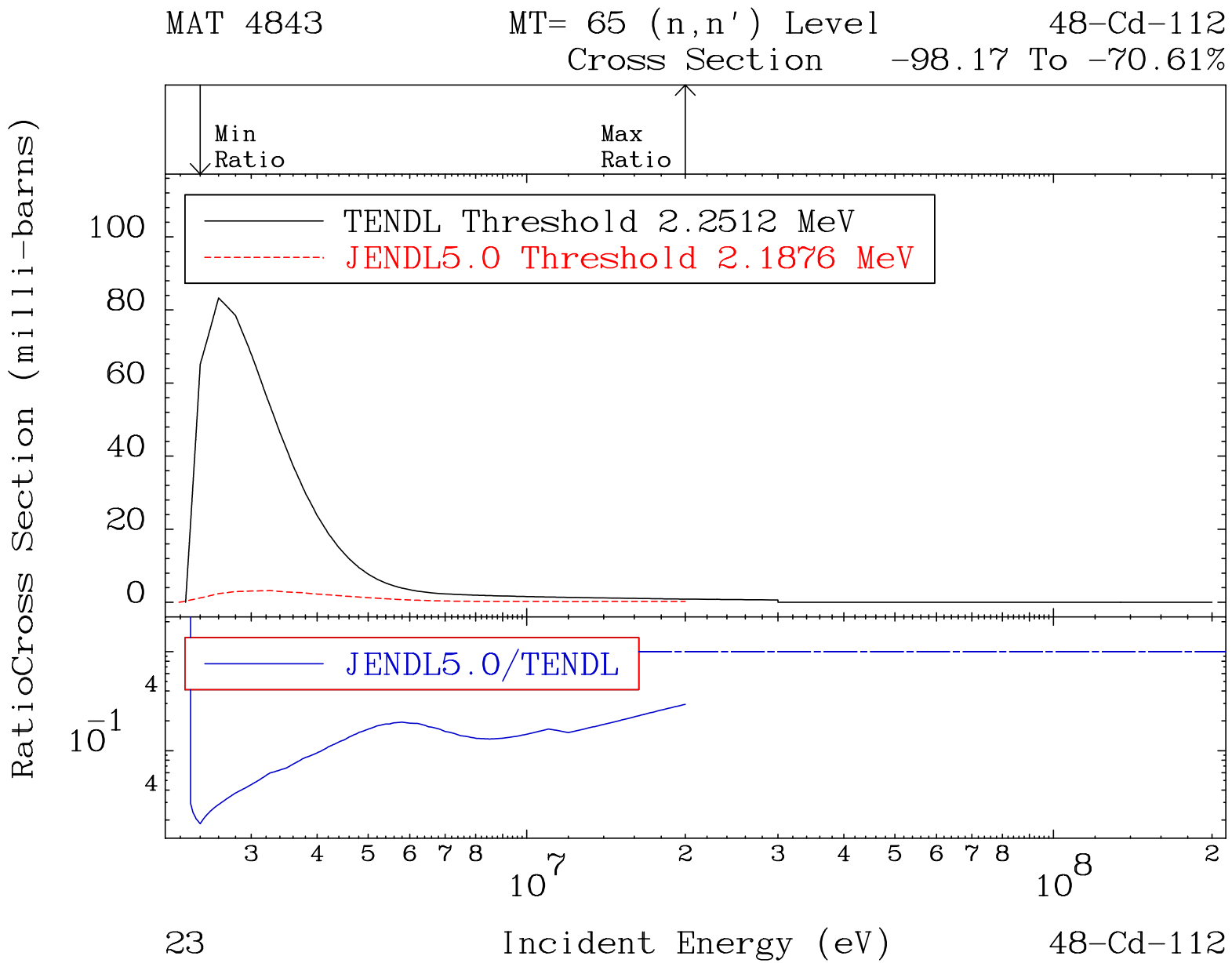

MAT 4843
MT= 60 (n,n') Level
48-Cd-112
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.0831 MeV
JENDL5.0 Threshold 2.0831 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
48-Cd-112

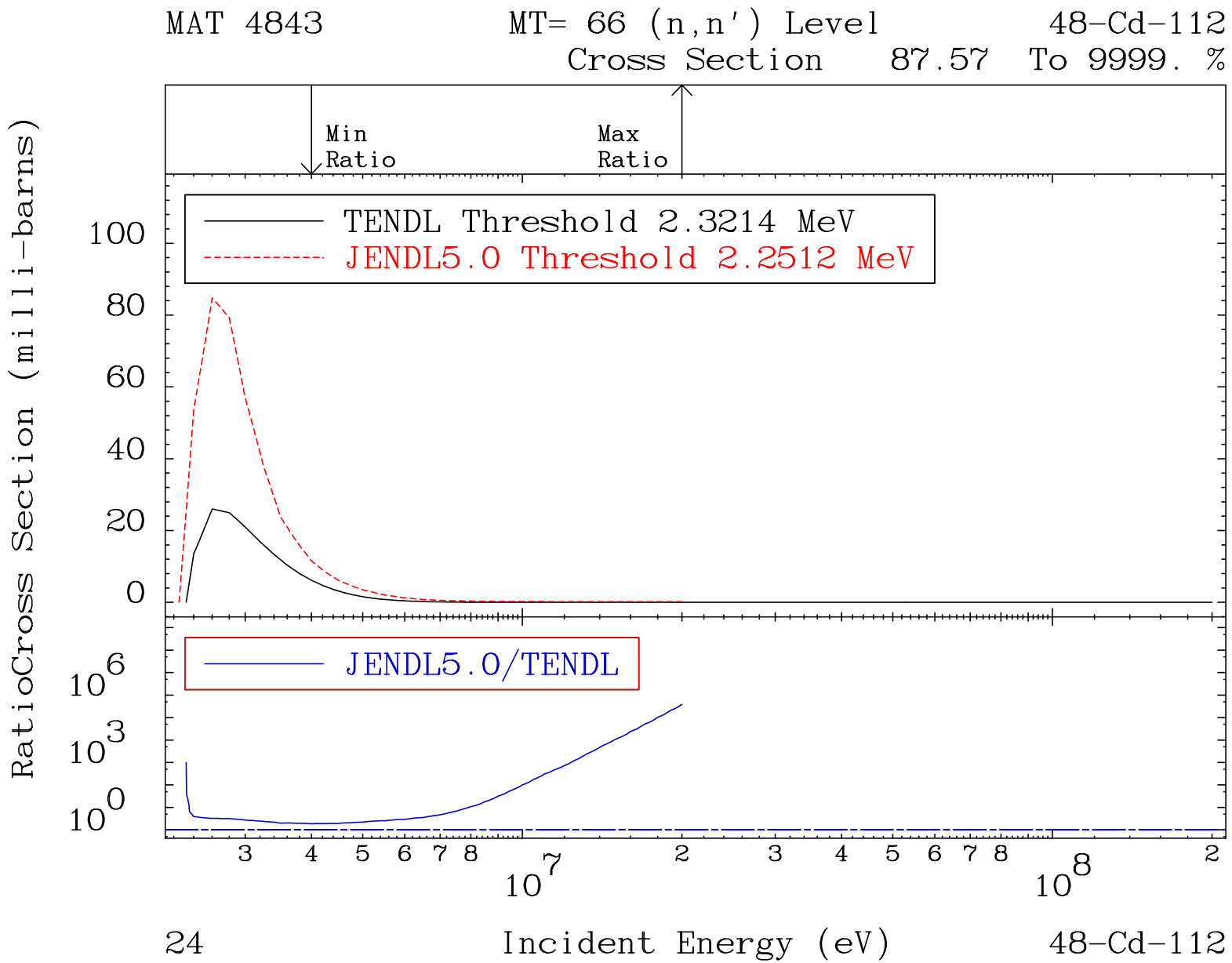

MAT 4843
MT= 61 (n,n') Level
48-Cd-112
Cross Section
-100.0 To 14.72 %
Max
Ratio
TENDL Threshold 2.1004 MeV
JENDL5.0 Threshold 2.1004 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
1.2
0.6
0.0
2
3
4
5
6
7
8
10^7
10^8
19
Incident Energy (eV)
48-Cd-112

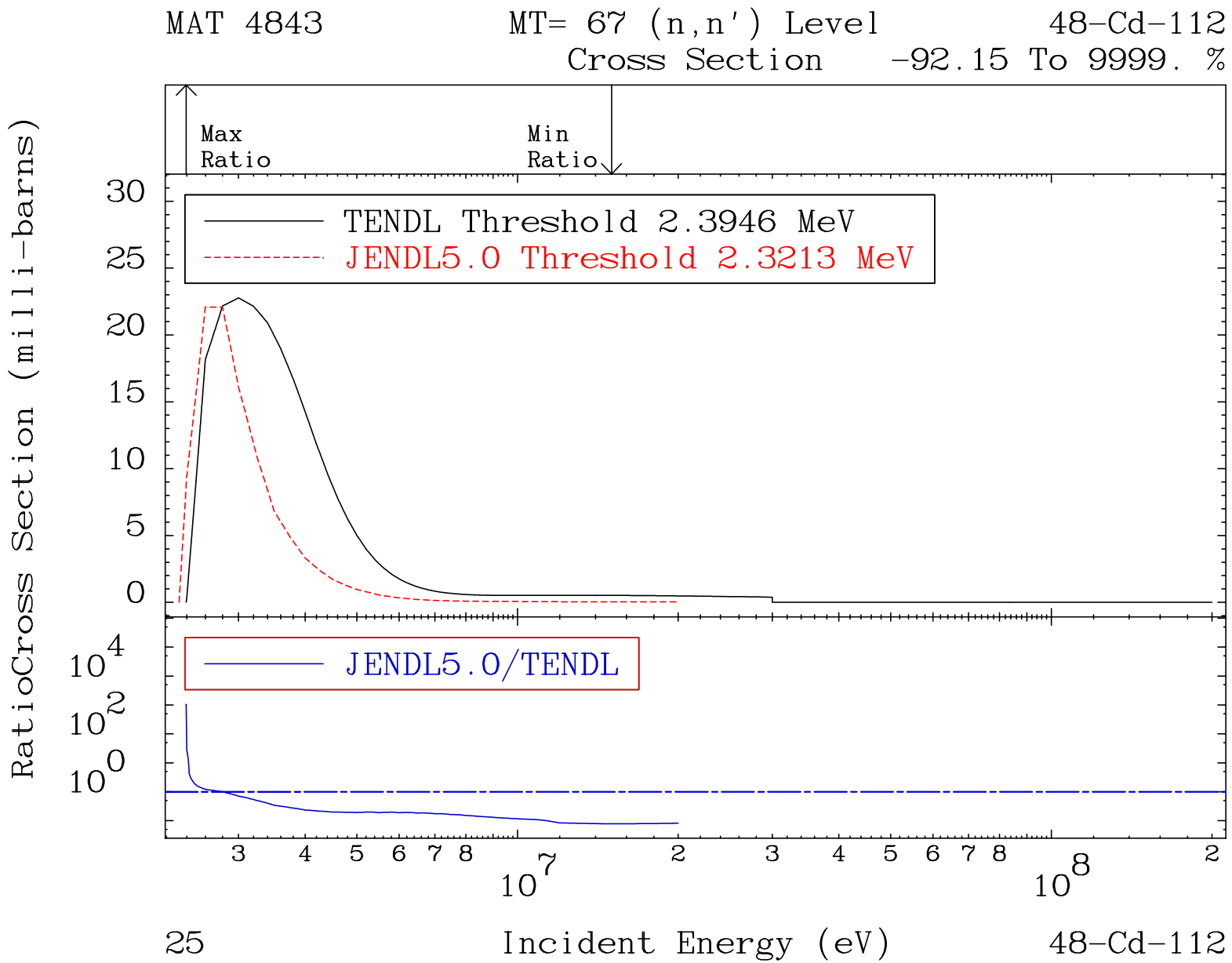

MAT 4843
MT= 62 (n,n') Level
48-Cd-112
Cross Section
-100.0 To 4.447 %
Max
Ratio
TENDL Threshold 2.1407 MeV
JENDL5.0 Threshold 2.1407 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
48-Cd-112

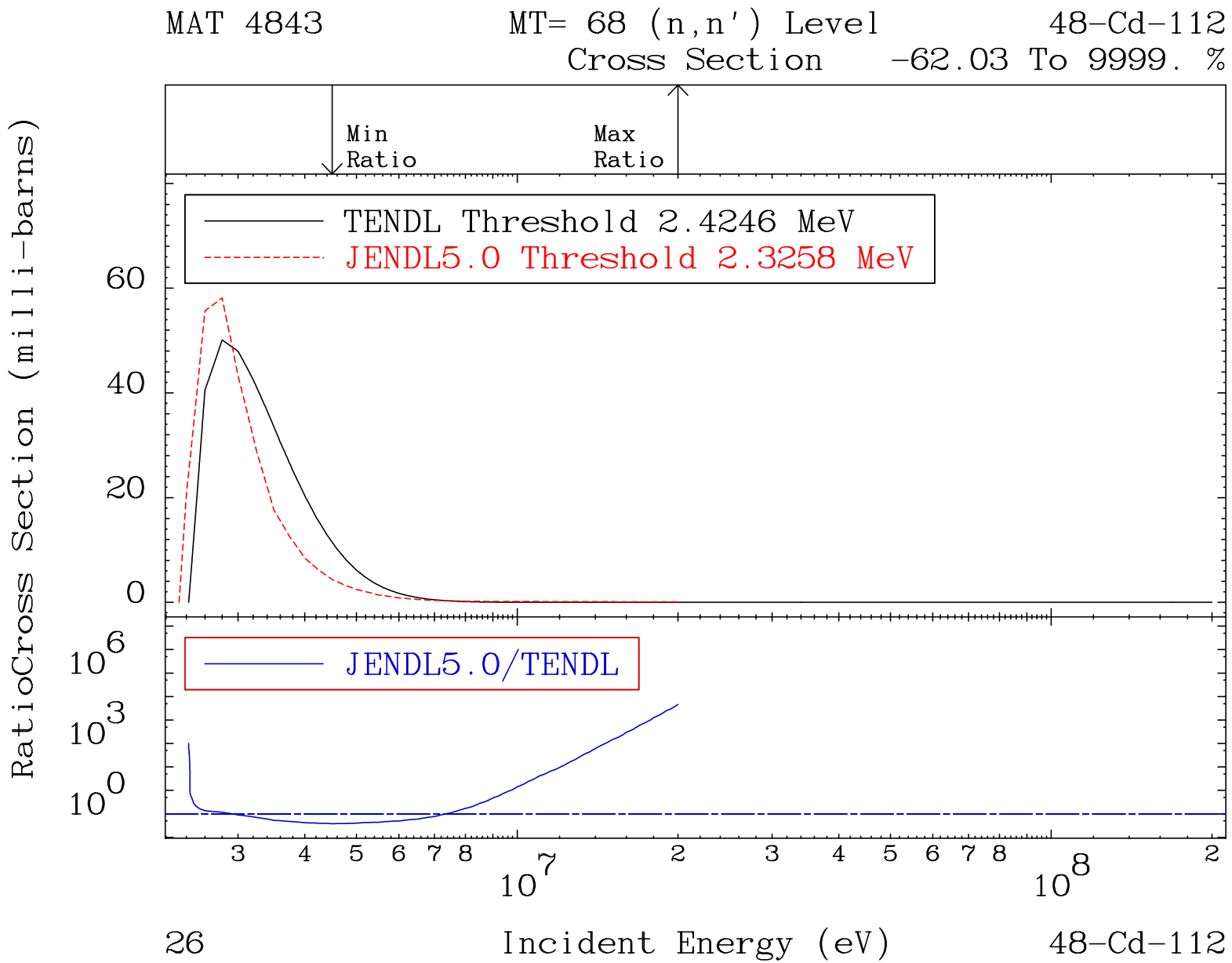

MAT 4843
MT= 63 (n,n') Level
48-Cd-112
Cross Section -100.0 To 4.075 %
Max
Ratio
TENDL Threshold 2.1756 MeV
JENDL5.0 Threshold 2.1756 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
48-Cd-112

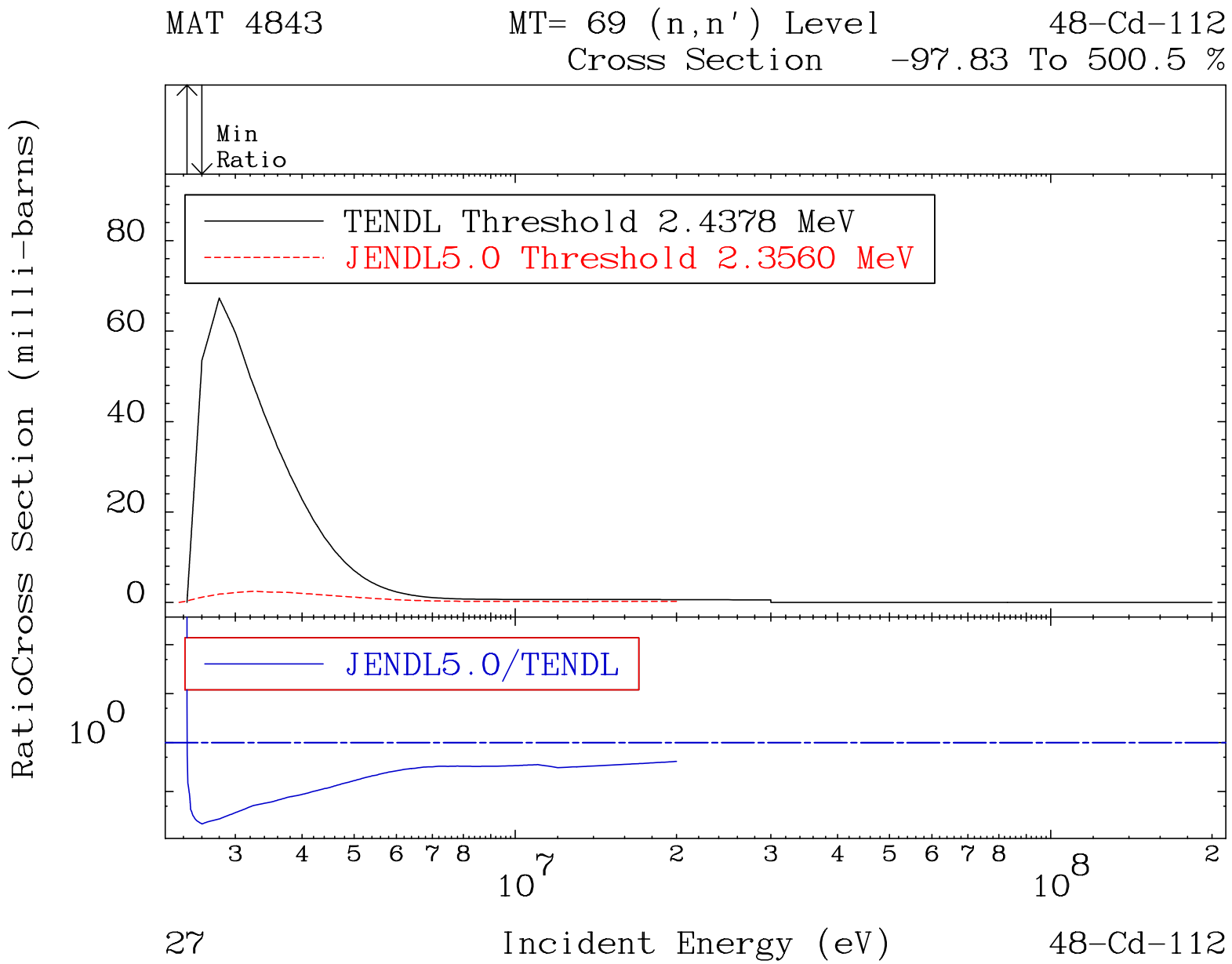

MAT 4843
MT= 64 (n,n') Level
48-Cd-112
Cross Section -59.69 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.1873 MeV
JENDL5.0 Threshold 2.1865 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
10^2
10^0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
48-Cd-112

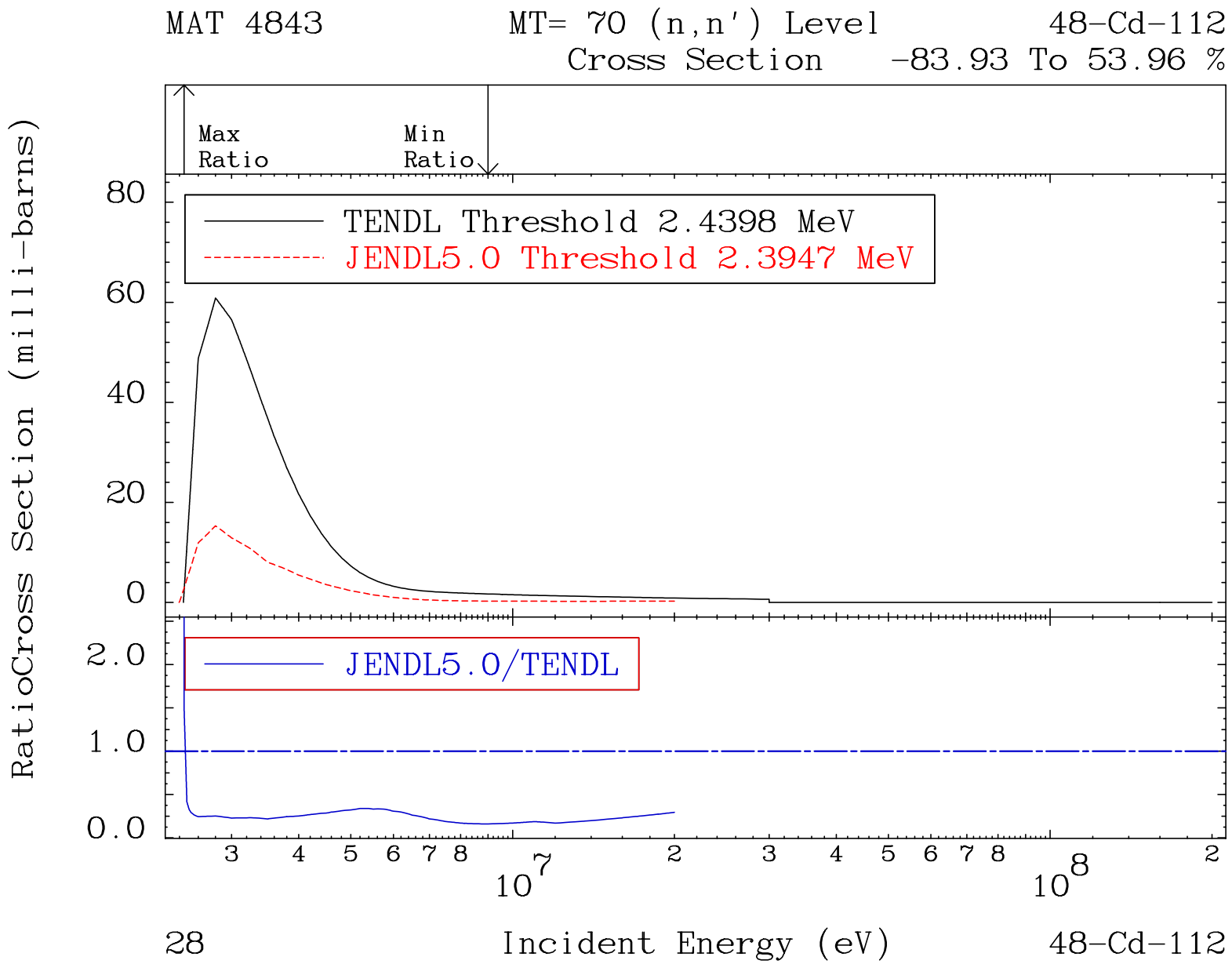

MAT 4843
MT= 65 (n,n') Level
48-Cd-112
Cross Section -98.17 To -70.61%
Min Ratio
Max Ratio
TENDL Threshold 2.2512 MeV
JENDL5.0 Threshold 2.1876 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
4
10^{-1}
4
3 4 5 6 7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
23
Incident Energy (eV)
48-Cd-112

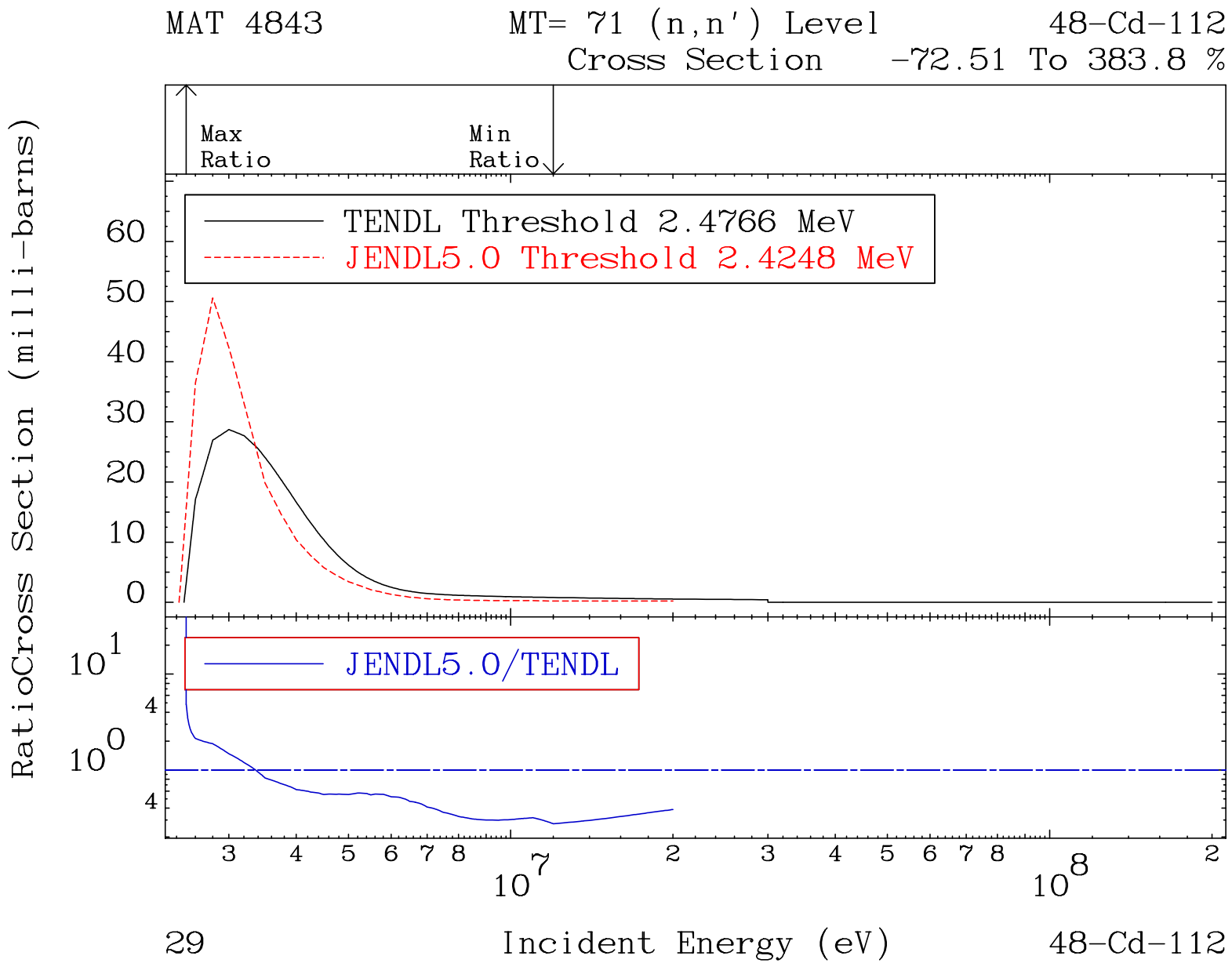

MAT 4843
MT= 66 (n,n') Level
48-Cd-112
Cross Section 87.57 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.3214 MeV
JENDL5.0 Threshold 2.2512 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
10^6
10^3
10^0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
48-Cd-112

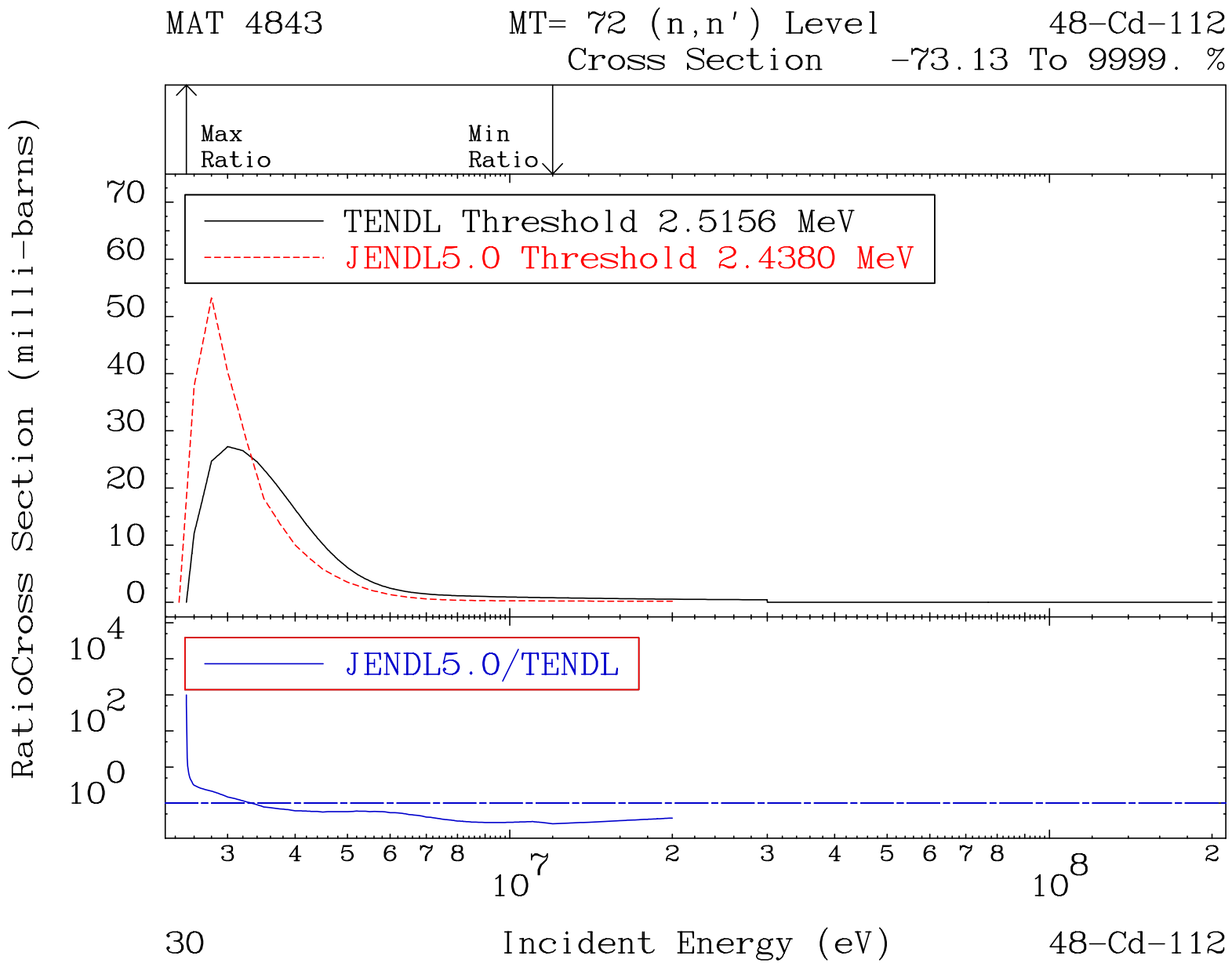

MAT 4843
MT= 67 (n,n') Level
48-Cd-112
Cross Section -92.15 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.3946 MeV
JENDL5.0 Threshold 2.3213 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
10^4
10^2
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
48-Cd-112

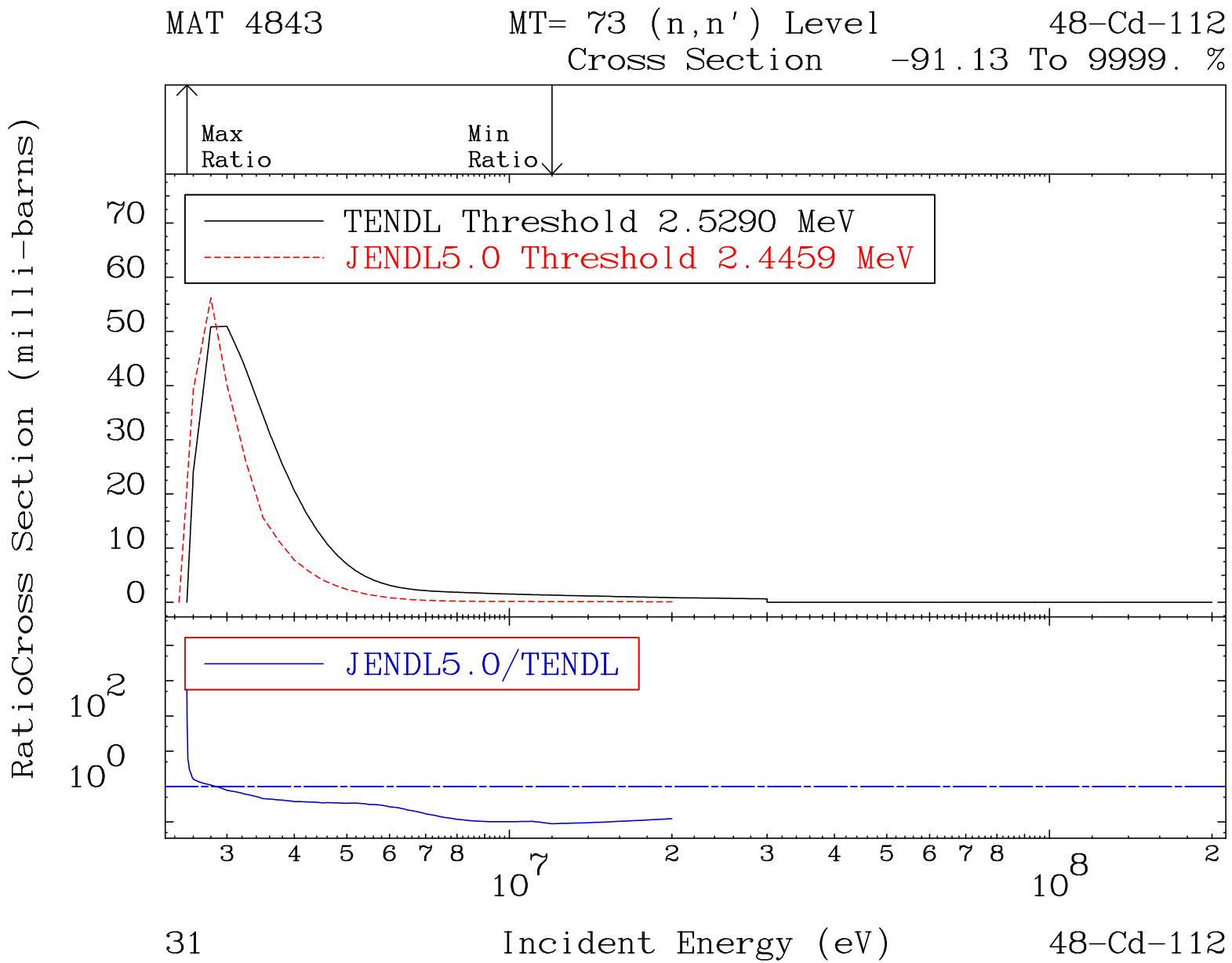

MAT 4843
MT= 68 (n,n') Level
48-Cd-112
Cross Section -62.03 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.4246 MeV
JENDL5.0 Threshold 2.3258 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
26
48-Cd-112

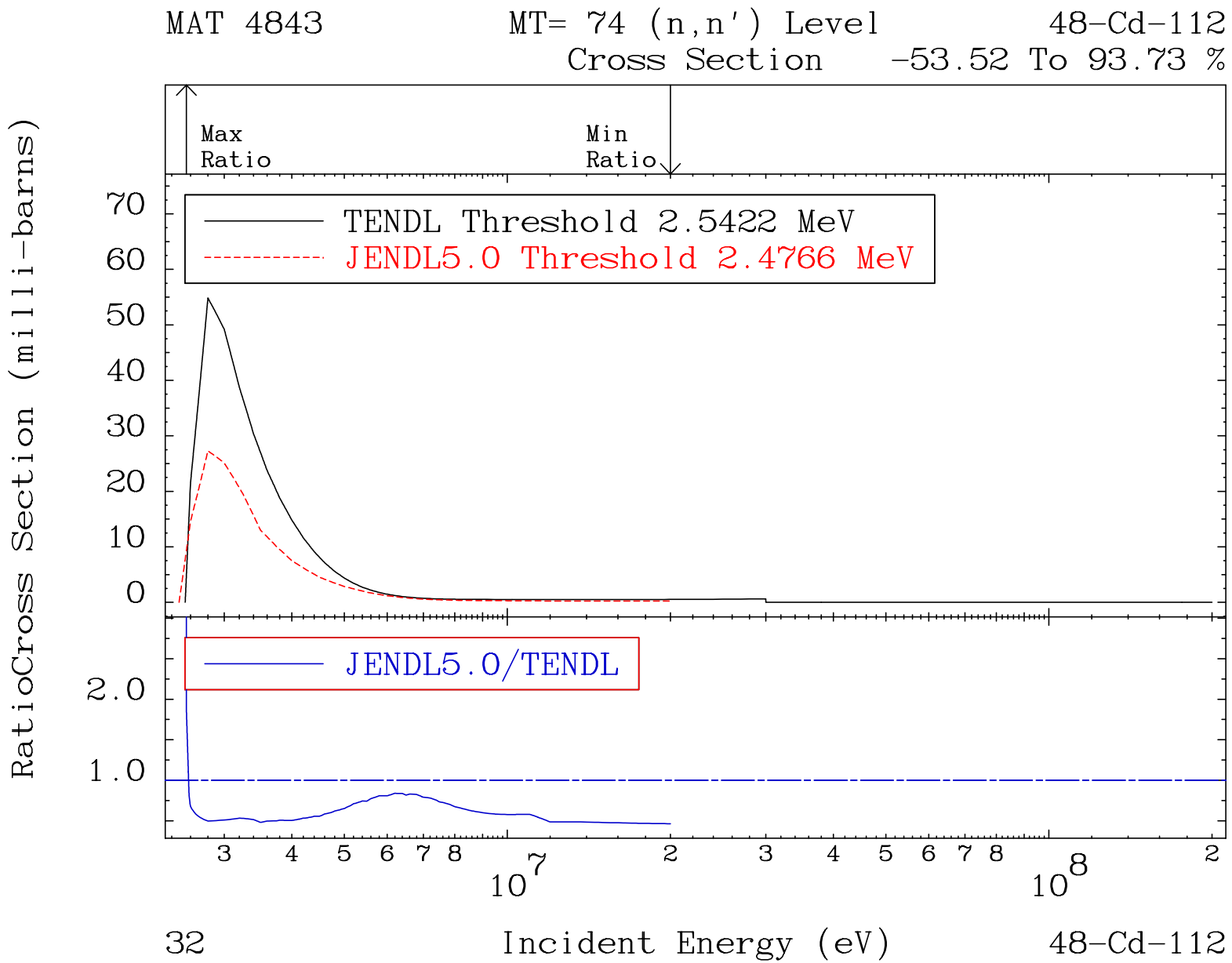

MAT 4843
MT= 69 (n,n') Level
48-Cd-112
Cross Section
-97.83 To 500.5 %
Min
Ratio
TENDL Threshold 2.4378 MeV
JENDL5.0 Threshold 2.3560 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
48-Cd-112

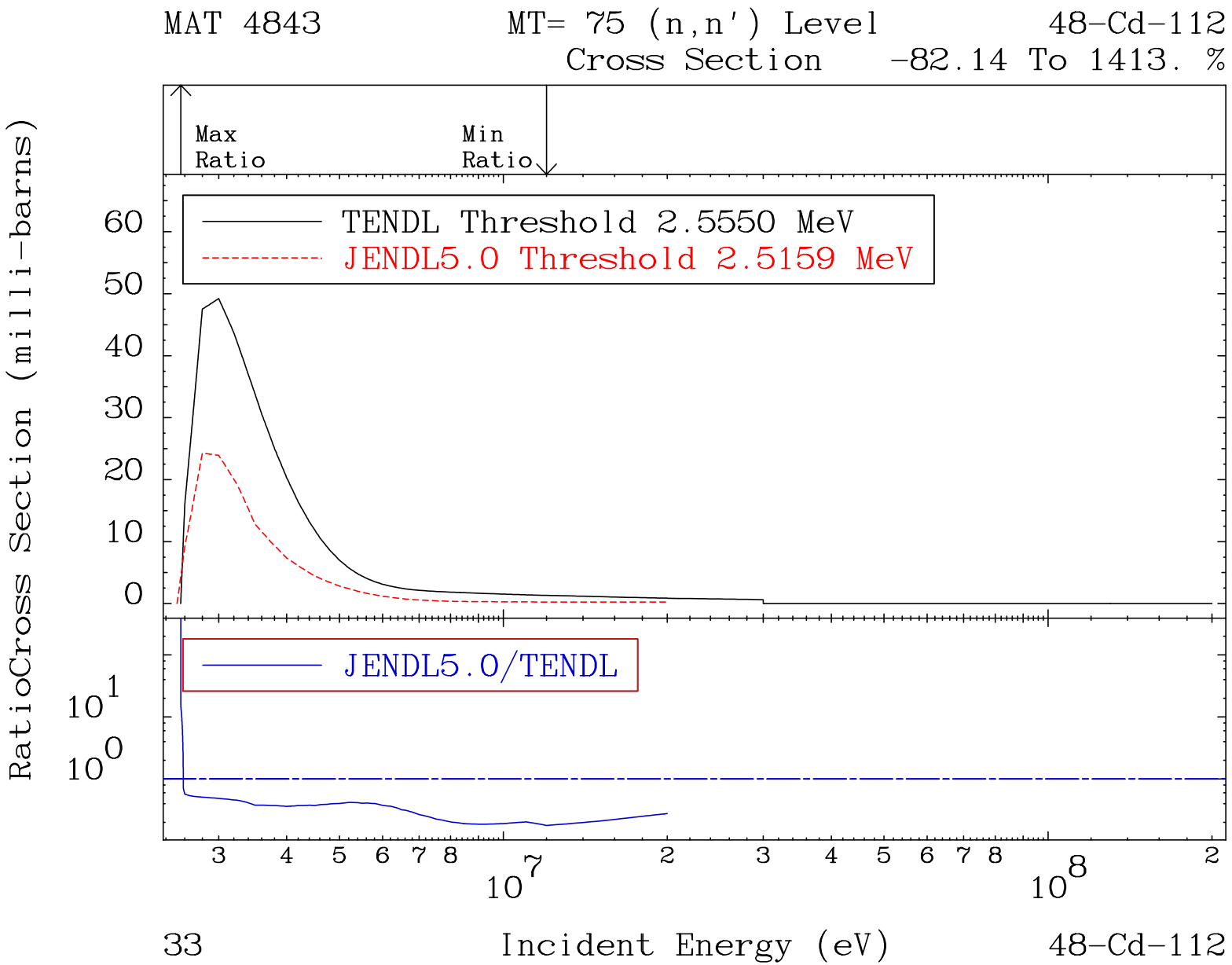

MAT 4843
MT= 70 (n,n') Level
48-Cd-112
Cross Section
-83.93 To 53.96 %
Max Ratio
Min Ratio
TENDL Threshold 2.4398 MeV
JENDL5.0 Threshold 2.3947 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
48-Cd-112

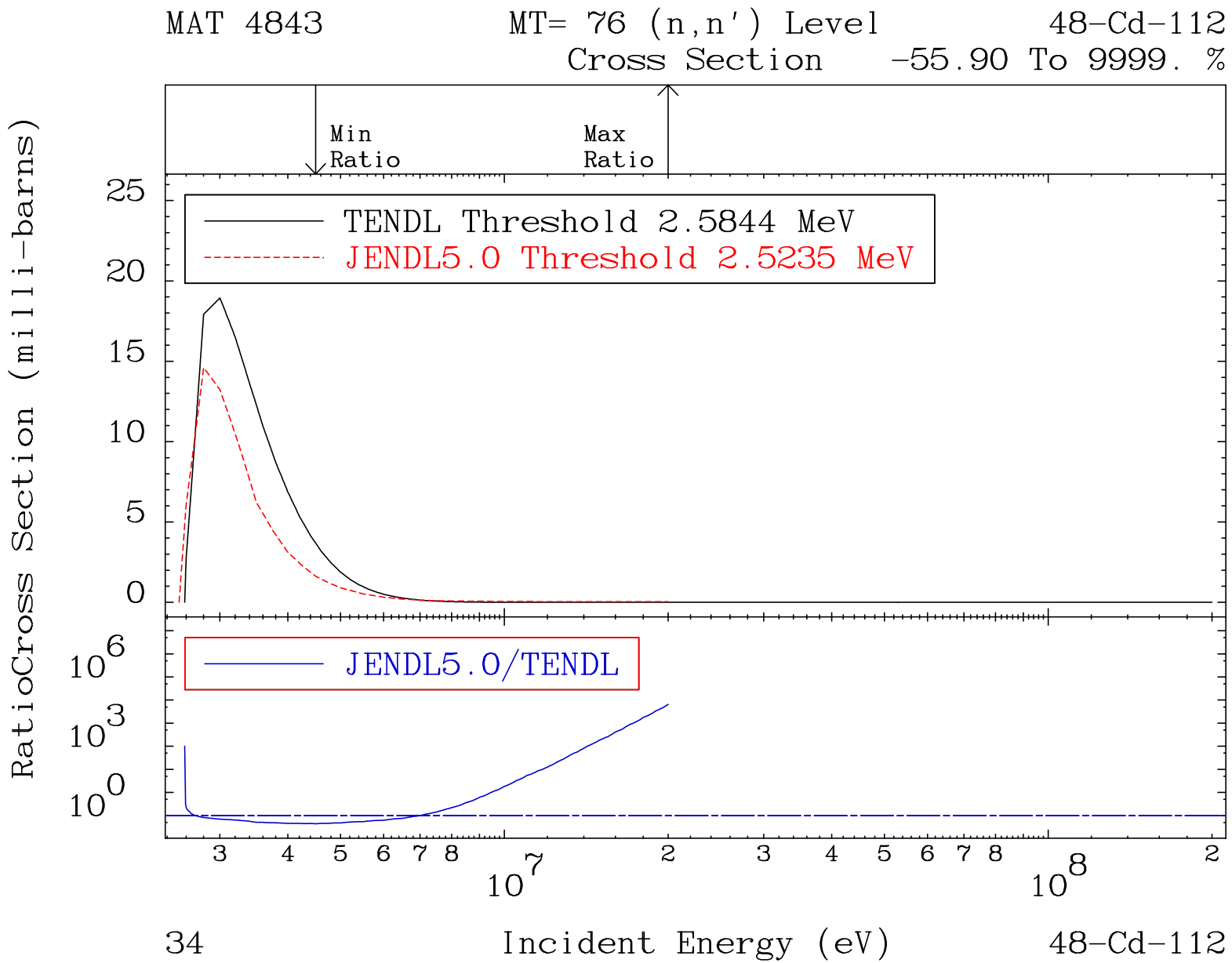

MAT 4843
MT= 71 (n,n') Level
48-Cd-112
Cross Section -72.51 To 383.8 %
Max Ratio
Min Ratio
TENDL Threshold 2.4766 MeV
JENDL5.0 Threshold 2.4248 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
29
48-Cd-112

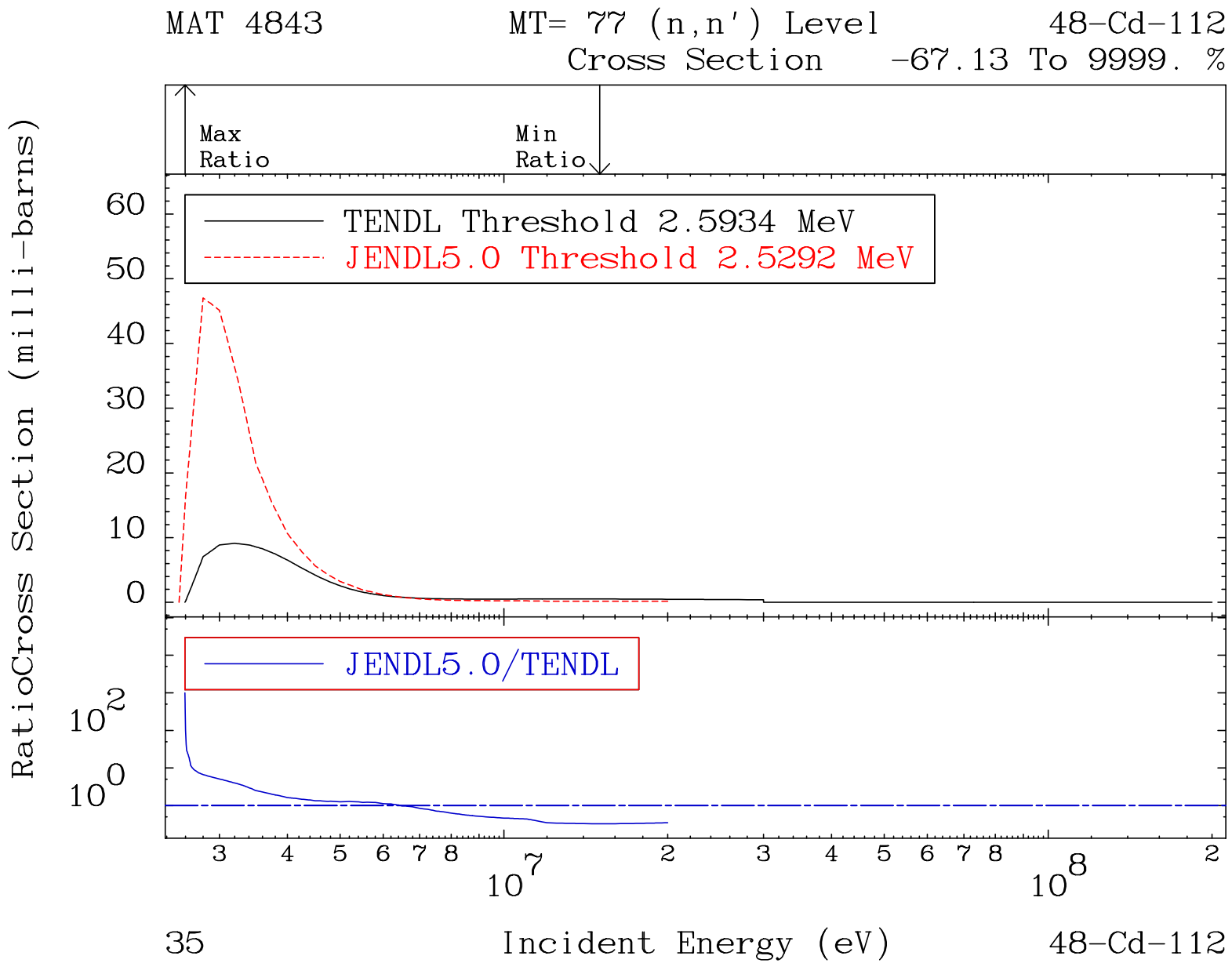

MAT 4843
MT= 72 (n,n') Level
48-Cd-112
Cross Section -73.13 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.5156 MeV
JENDL5.0 Threshold 2.4380 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
30
48-Cd-112

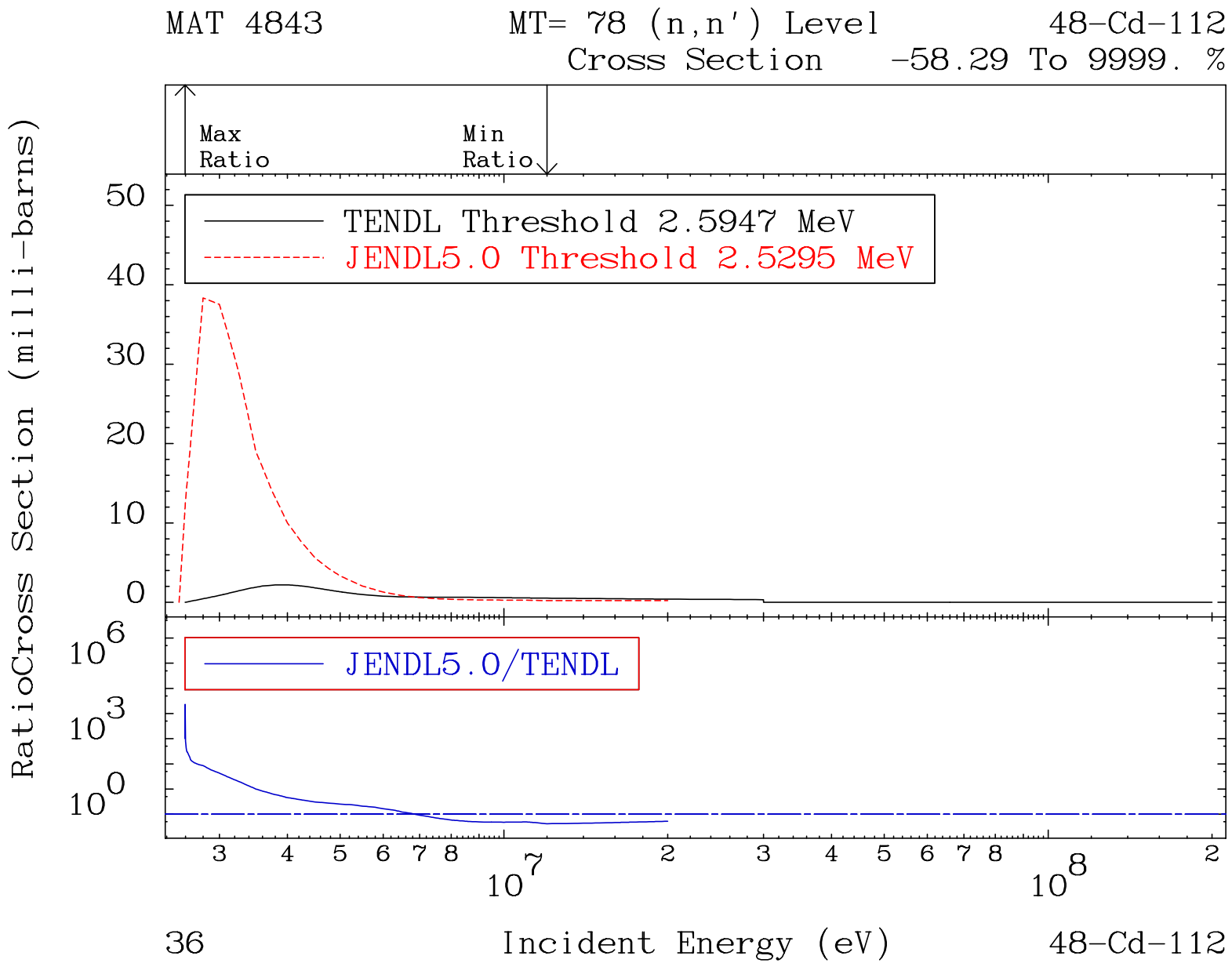

MAT 4843
MT= 73 (n,n') Level
48-Cd-112
Cross Section -91.13 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.5290 MeV
JENDL5.0 Threshold 2.4459 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
31
48-Cd-112

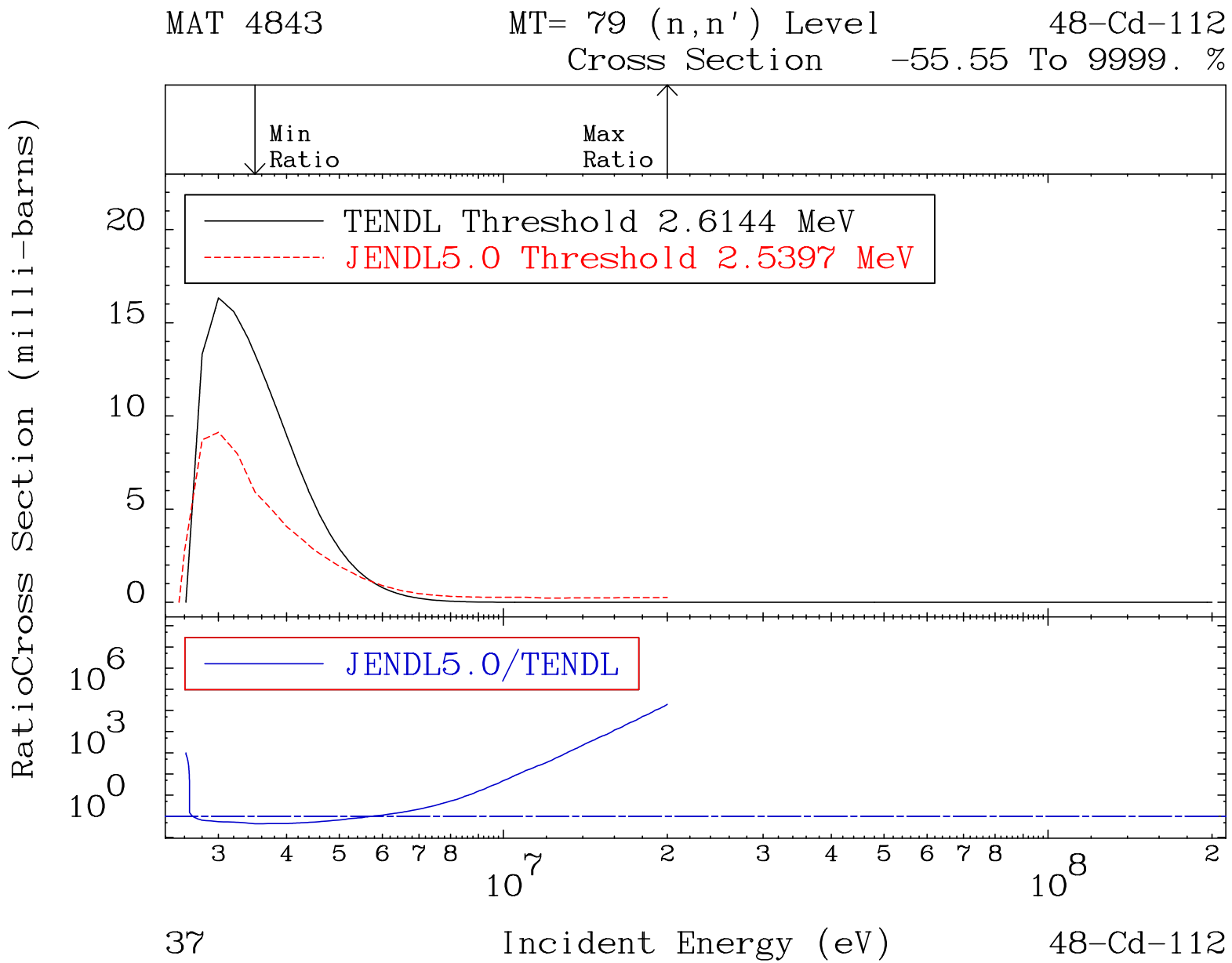

MAT 4843
MT= 74 (n,n') Level
48-Cd-112
Cross Section
-53.52 To 93.73 %
Max Ratio
Min Ratio
TENDL Threshold 2.5422 MeV
JENDL5.0 Threshold 2.4766 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
2.0
1.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
48-Cd-112

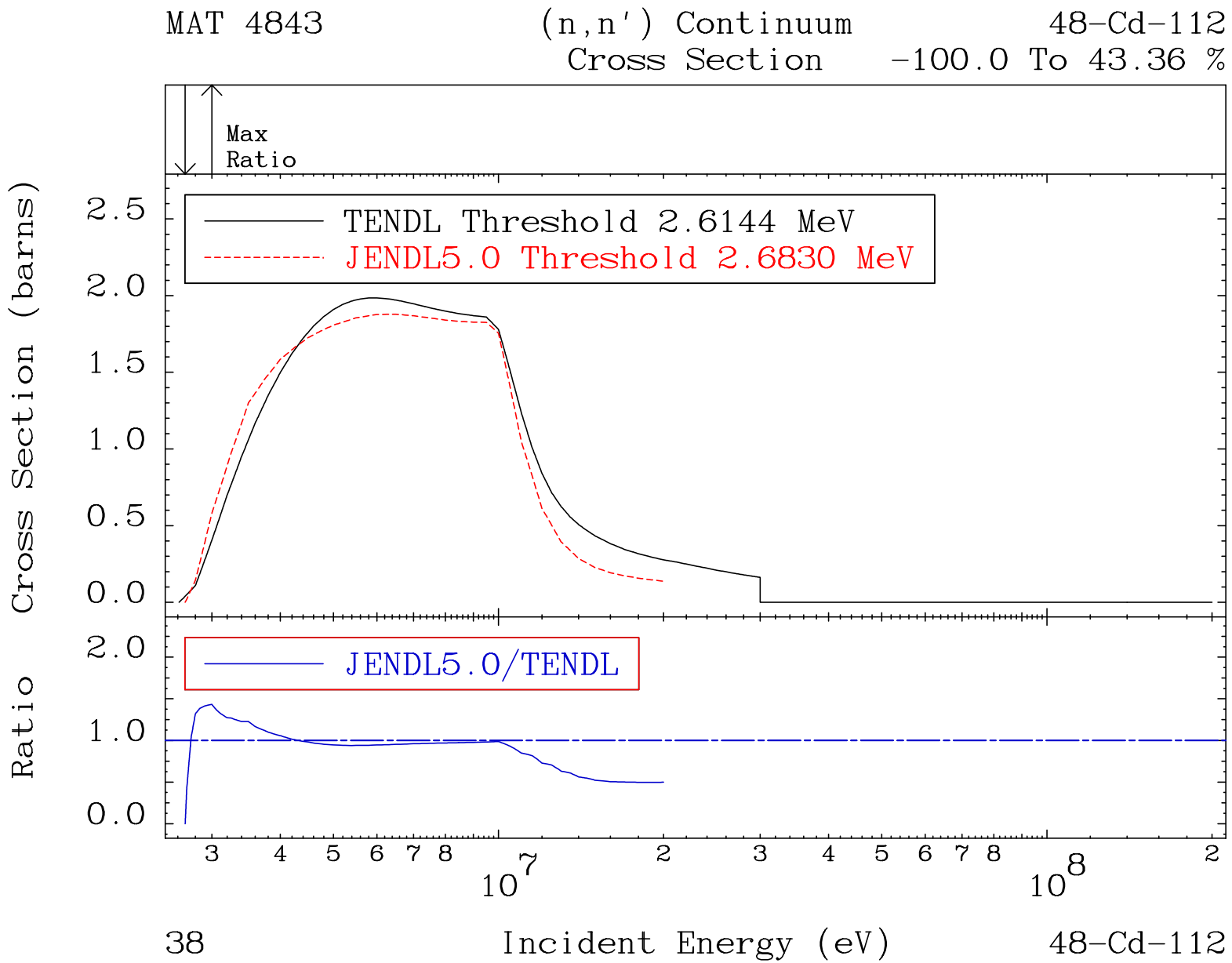

MAT 4843
MT= 75 (n,n') Level
48-Cd-112
Cross Section -82.14 To 1413. %
Max Ratio
Min Ratio
TENDL Threshold 2.5550 MeV
JENDL5.0 Threshold 2.5159 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
10^1
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
33
Incident Energy (eV)
48-Cd-112

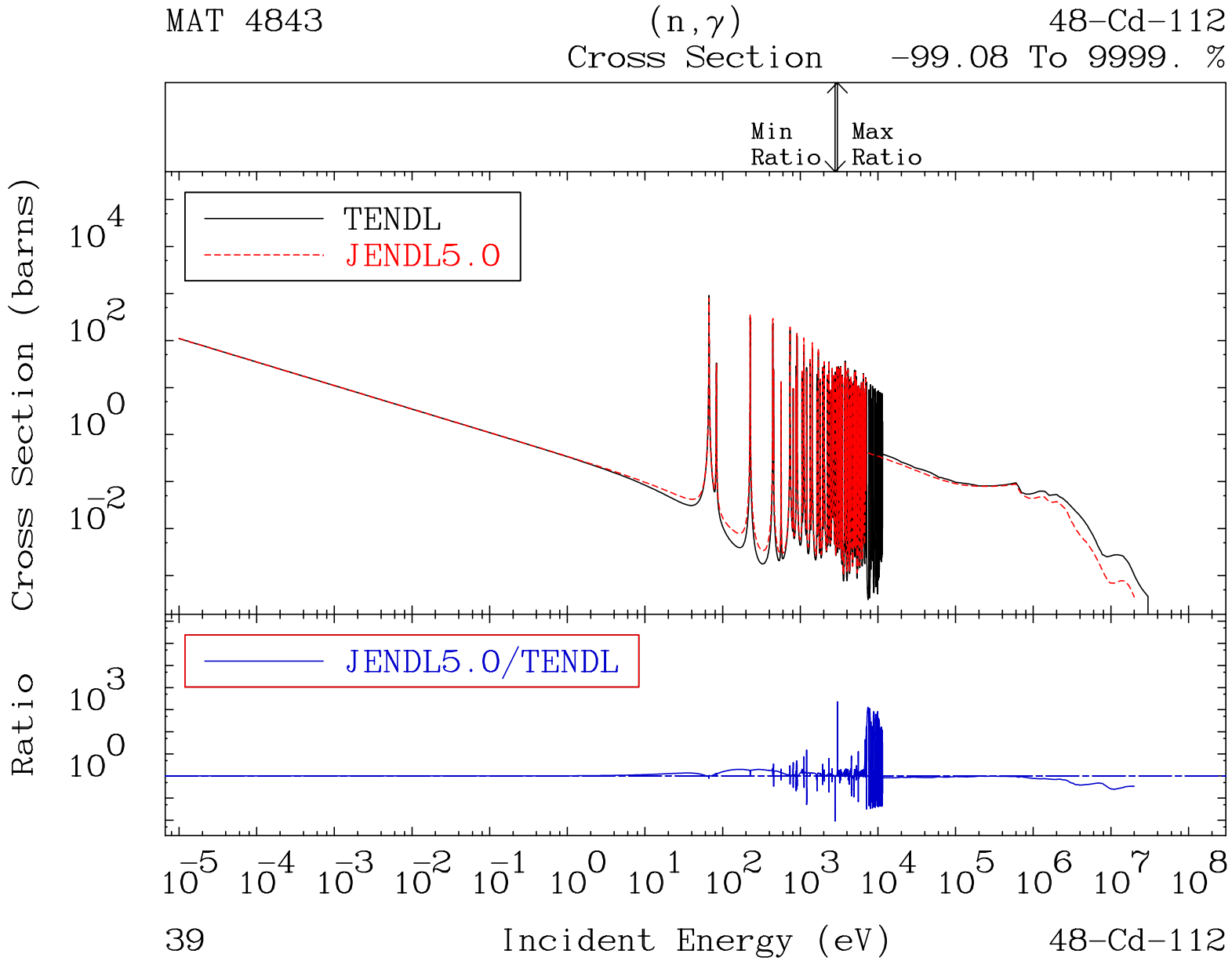

MAT 4843
MT= 76 (n,n') Level
48-Cd-112
Cross Section -55.90 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.5844 MeV
JENDL5.0 Threshold 2.5235 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
34
48-Cd-112

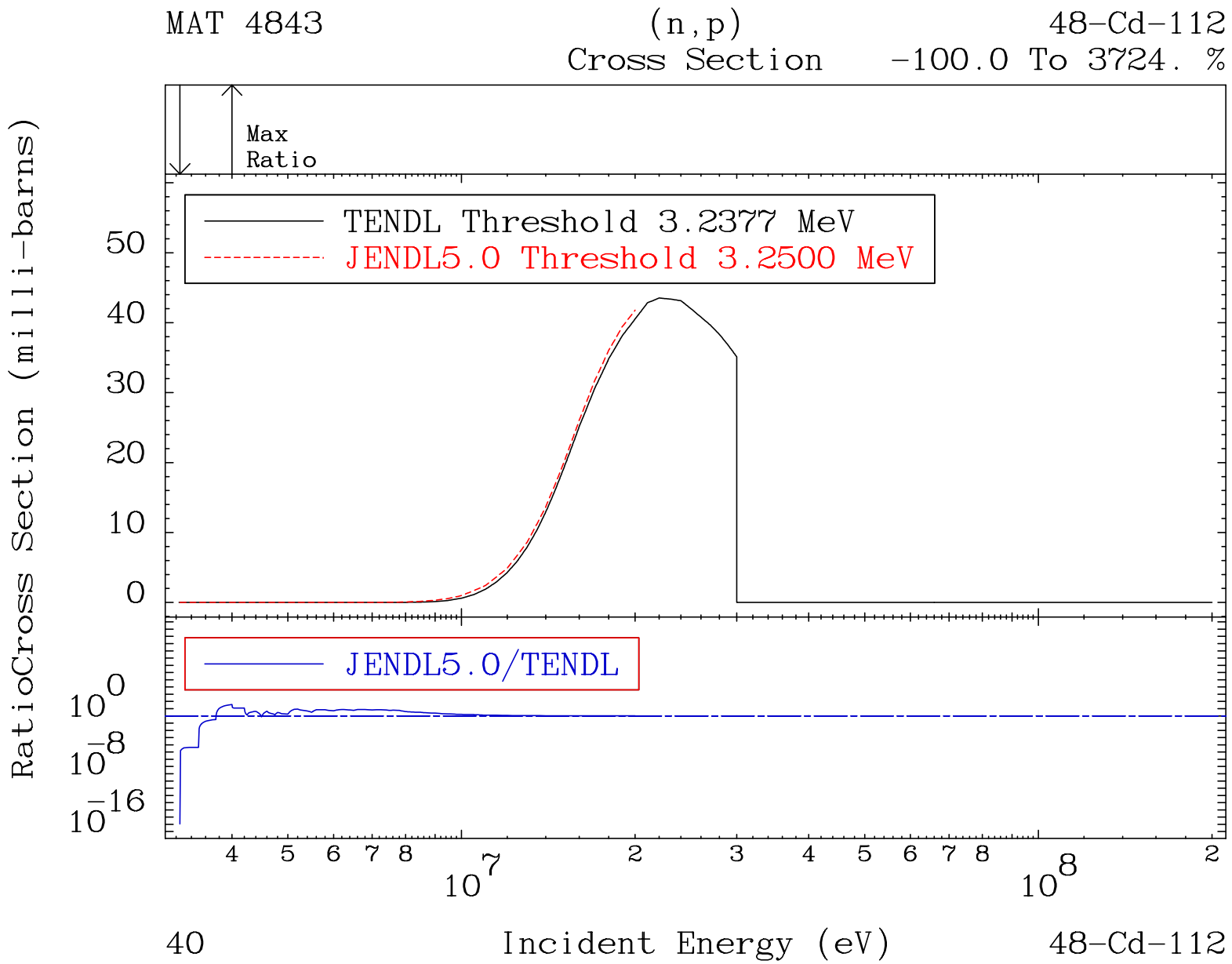

MAT 4843
MT= 77 (n,n') Level
48-Cd-112
Cross Section -67.13 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.5934 MeV
JENDL5.0 Threshold 2.5292 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
10^2
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
48-Cd-112

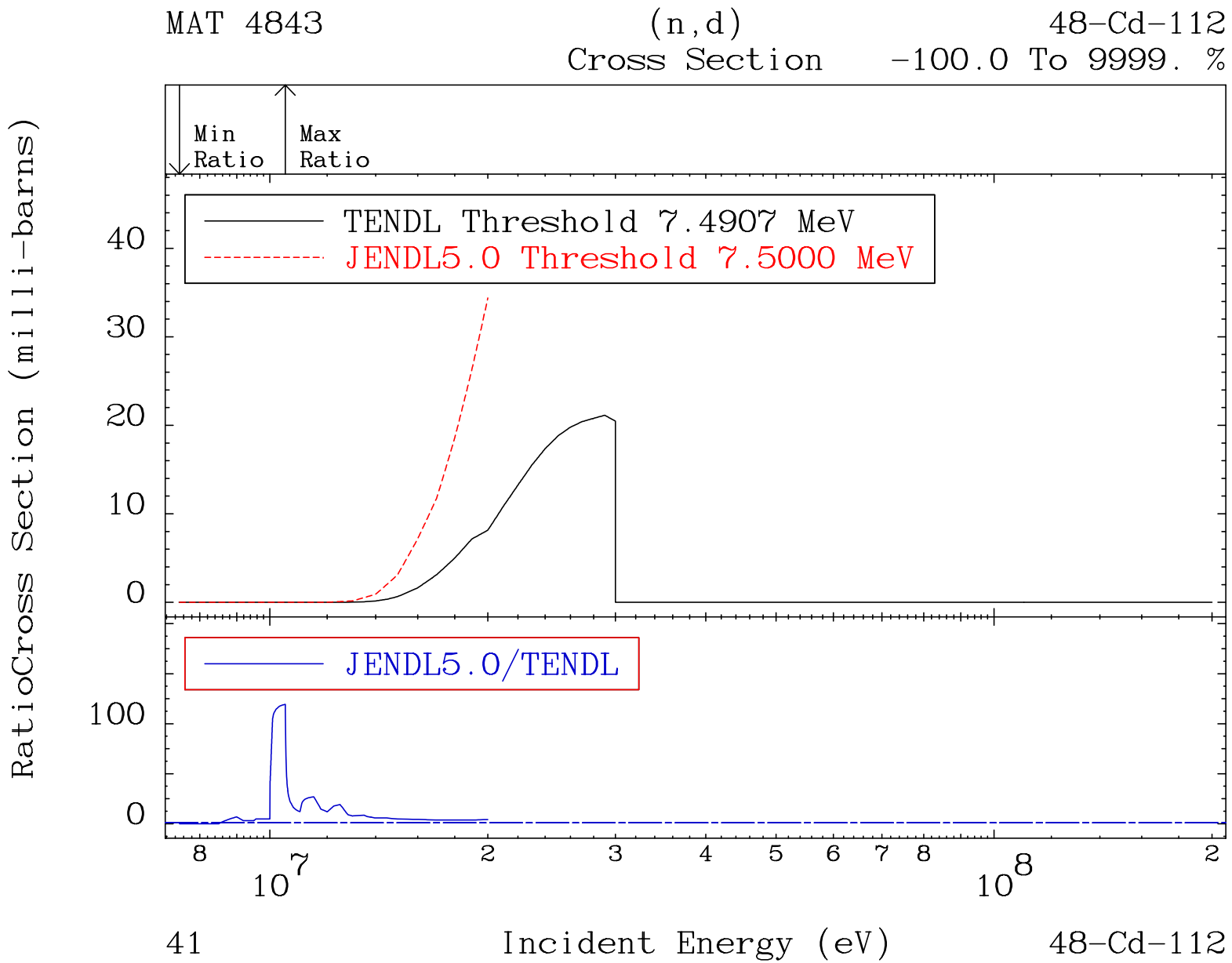

MAT 4843
MT= 78 (n,n') Level
48-Cd-112
Cross Section -58.29 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.5947 MeV
JENDL5.0 Threshold 2.5295 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
10^6
10^3
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
48-Cd-112

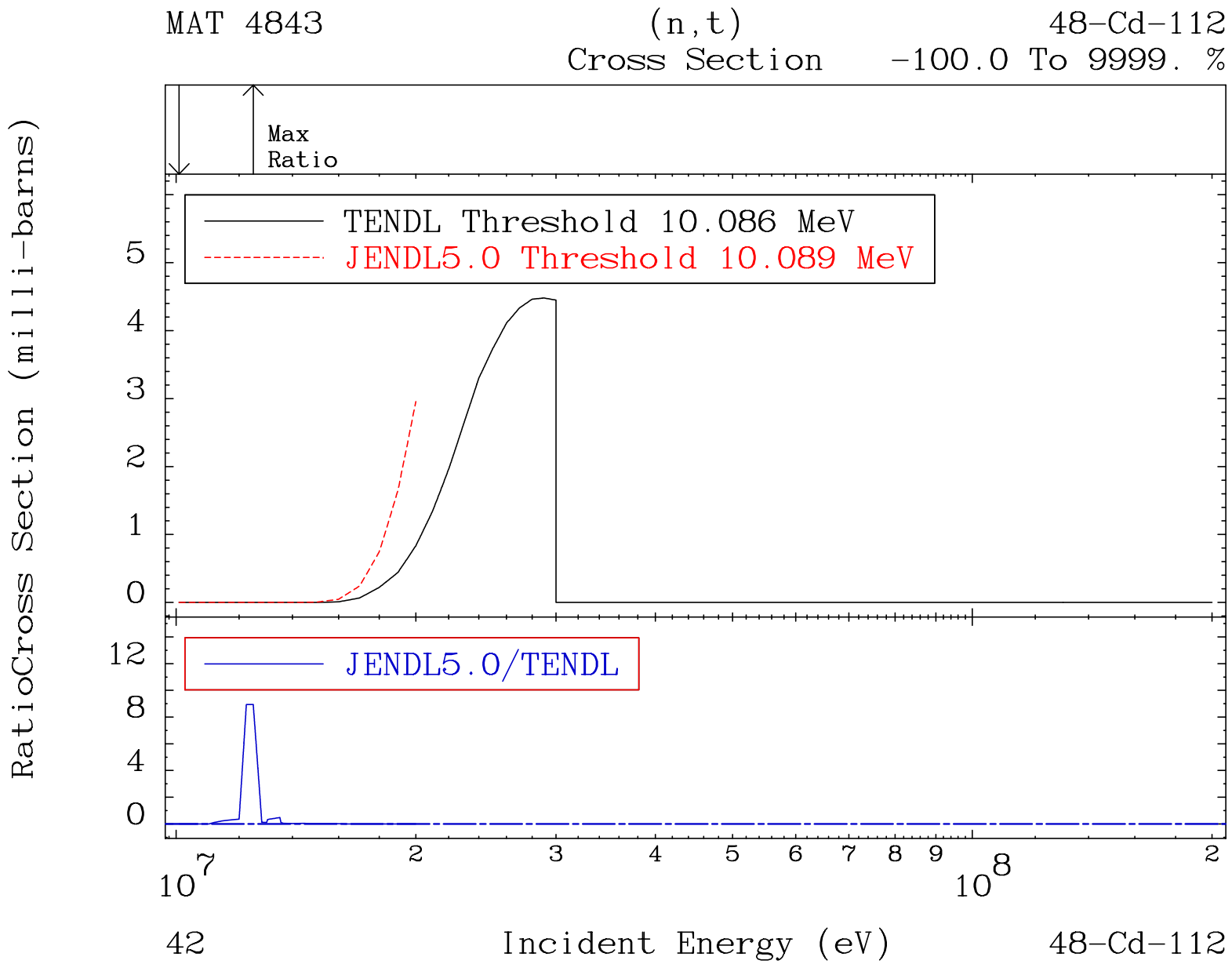

MAT 4843
MT= 79 (n,n') Level
48-Cd-112
Cross Section -55.55 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6144 MeV
JENDL5.0 Threshold 2.5397 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
37
48-Cd-112

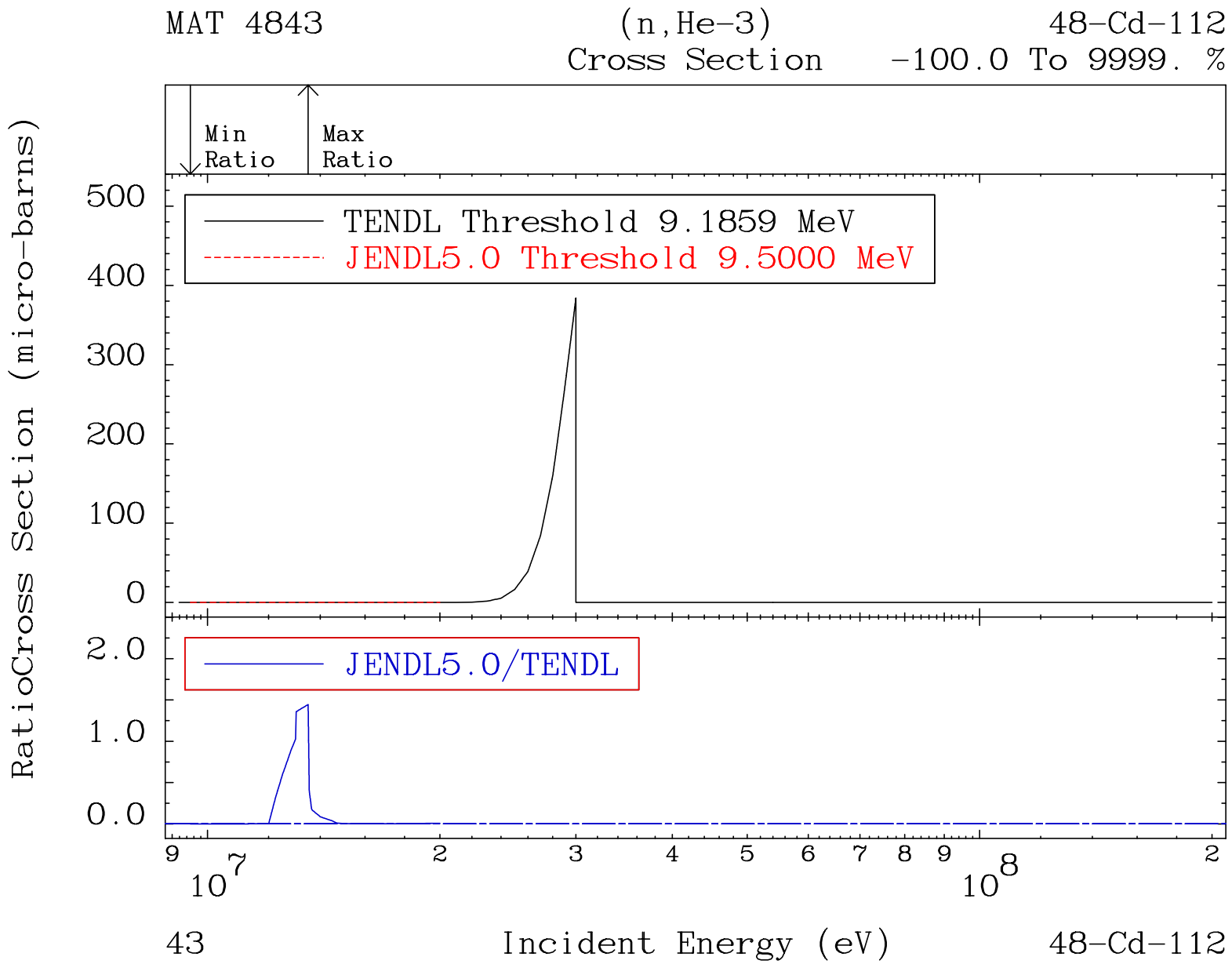

MAT 4843
(n,n') Continuum
Cross Section
48-Cd-112
-100.0 To 43.36 %
Max
Ratio
TENDL Threshold 2.6144 MeV
JENDL5.0 Threshold 2.6830 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
48-Cd-112

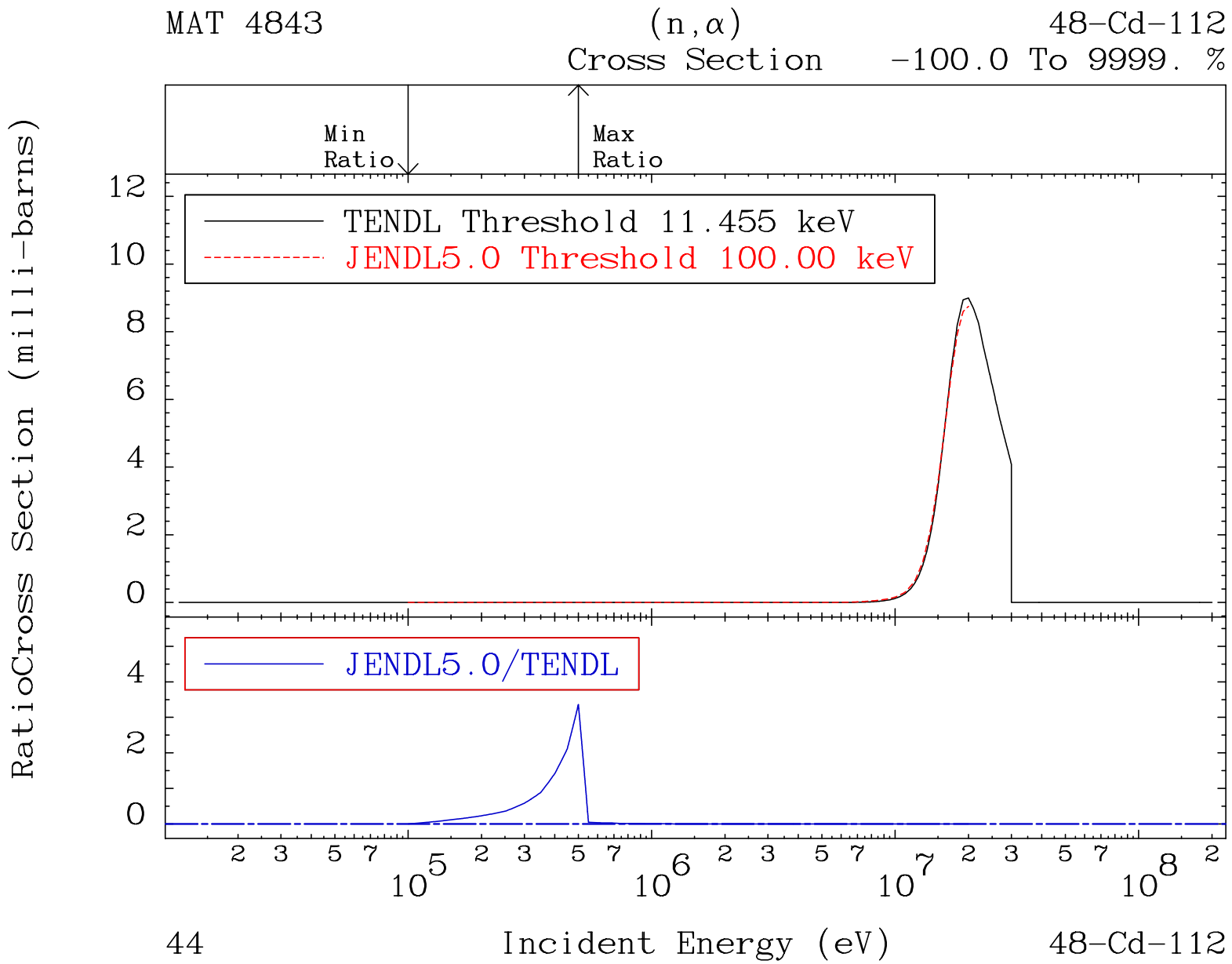

MAT 4843
(n,γ)
Cross Section
48-Cd-112
-99.08 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
39
48-Cd-112

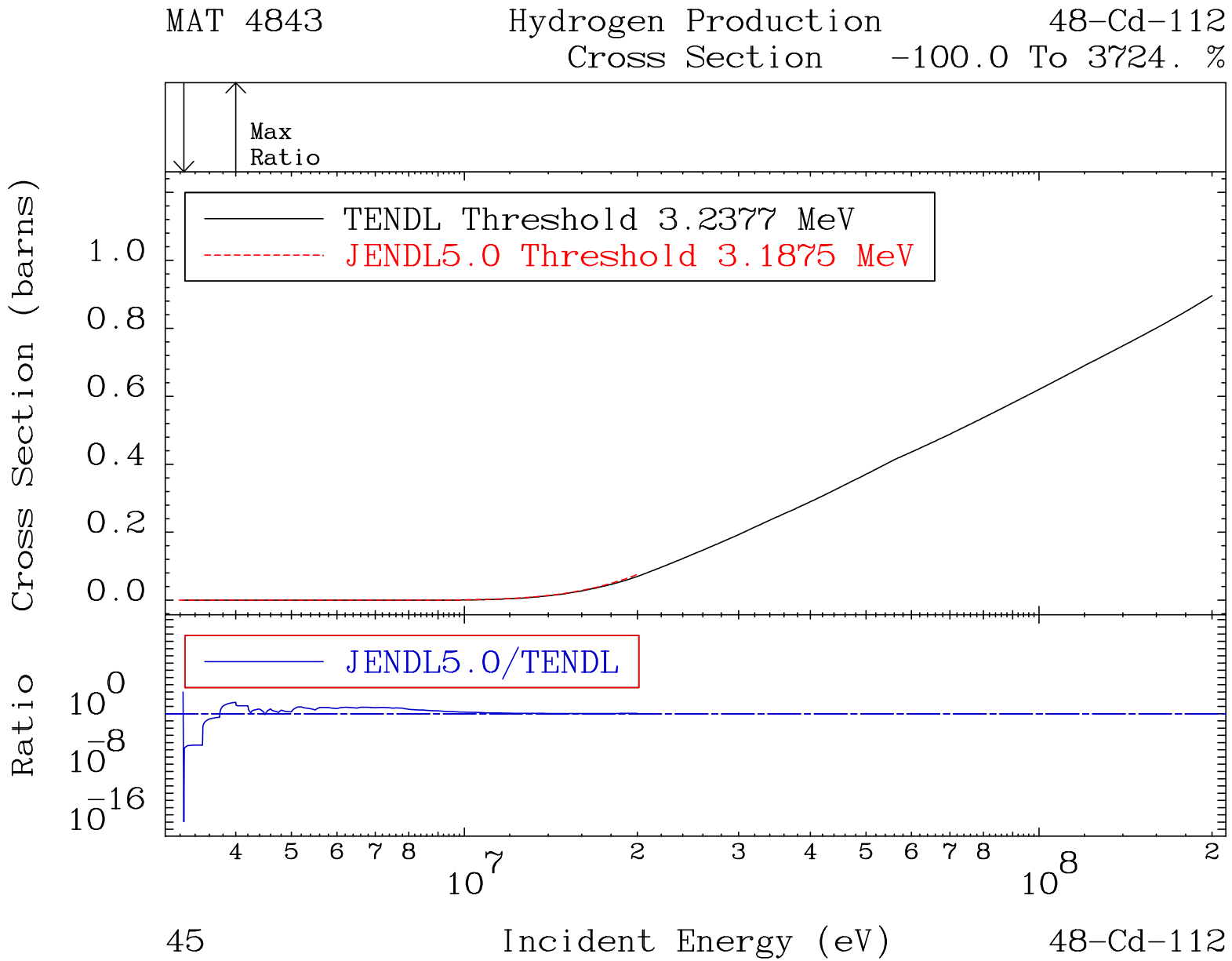

MAT 4843
(n,p)
48-Cd-112
Cross Section
-100.0 To 3724. %
Max
Ratio
TENDL Threshold 3.2377 MeV
JENDL5.0 Threshold 3.2500 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
10^{0}
10^{-8}
10^{-16}
4 5 6 7 8
10^{7}
2 3 4 5 6 7 8
10^{8}
2
40
Incident Energy (eV)
48-Cd-112

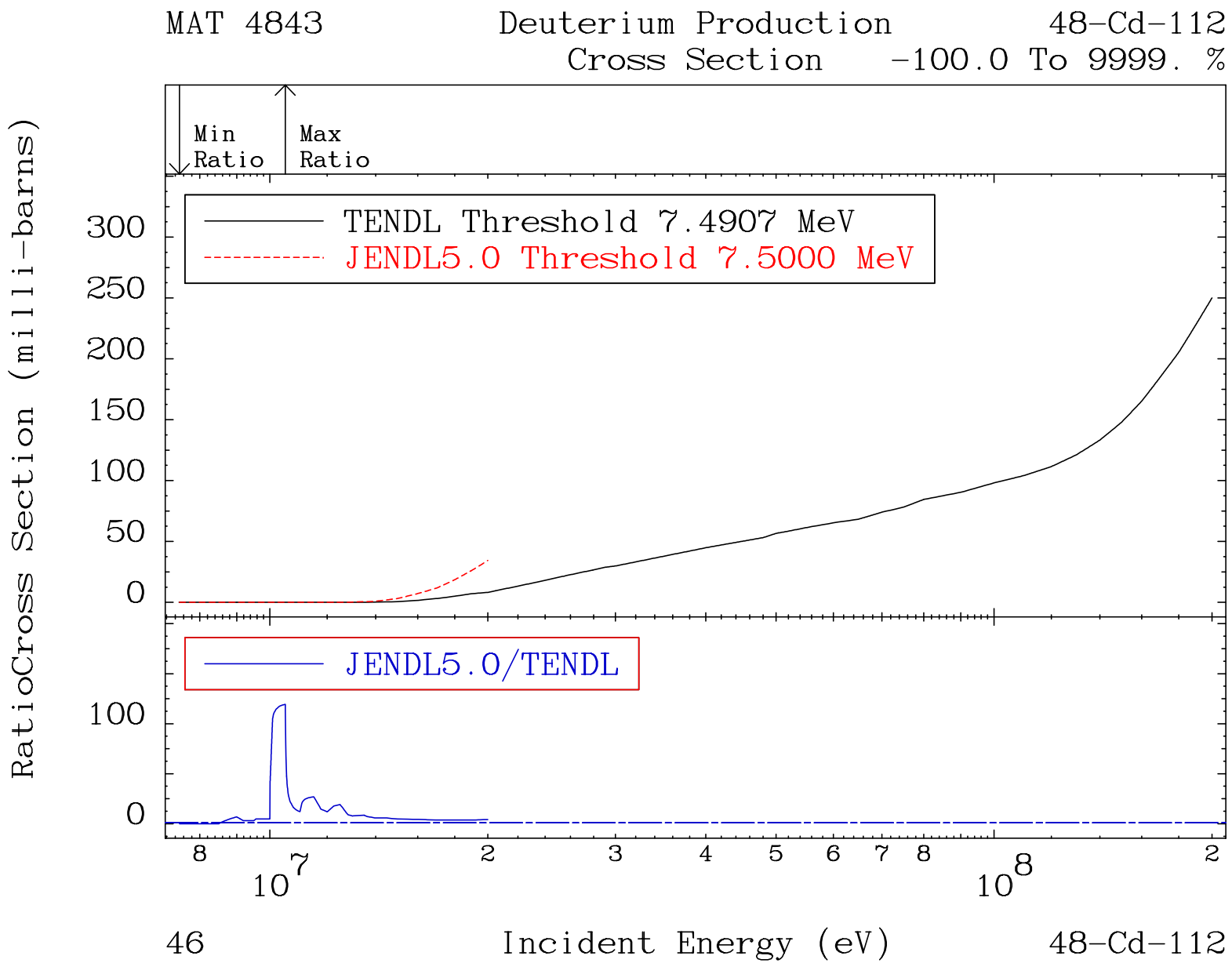

MAT 4843
(n,d)
48-Cd-112
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.4907 MeV
JENDL5.0 Threshold 7.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
100
0
8
10^7
2
3
4
5
6
7
8
10^8
2
41
Incident Energy (eV)
48-Cd-112

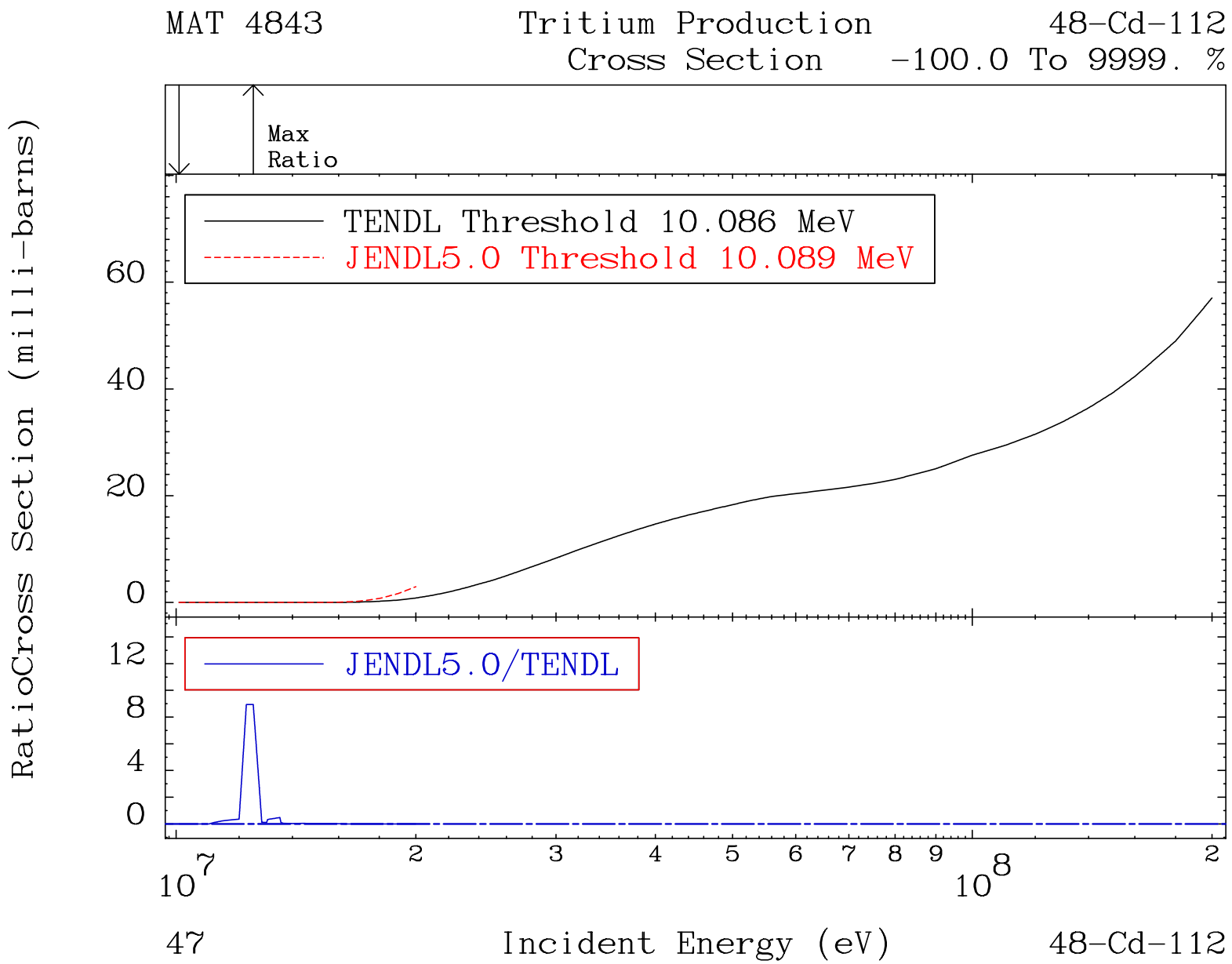

MAT 4843
(n,t)
Cross Section
48-Cd-112
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 10.086 MeV
JENDL5.0 Threshold 10.089 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
42
48-Cd-112

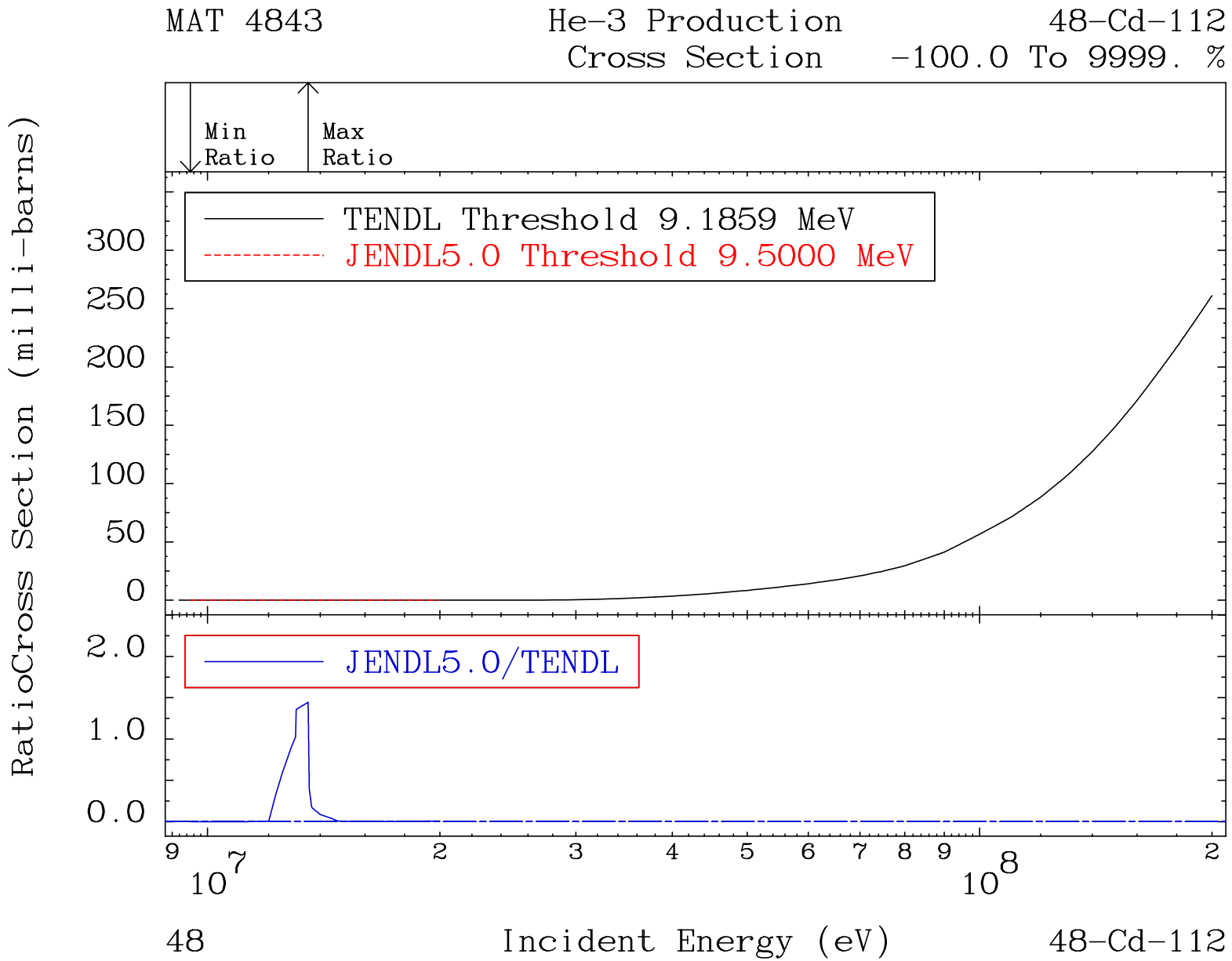

MAT 4843
(n,He-3)
48-Cd-112
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 9.1859 MeV
JENDL5.0 Threshold 9.5000 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
500
400
300
200
100
0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
48-Cd-112

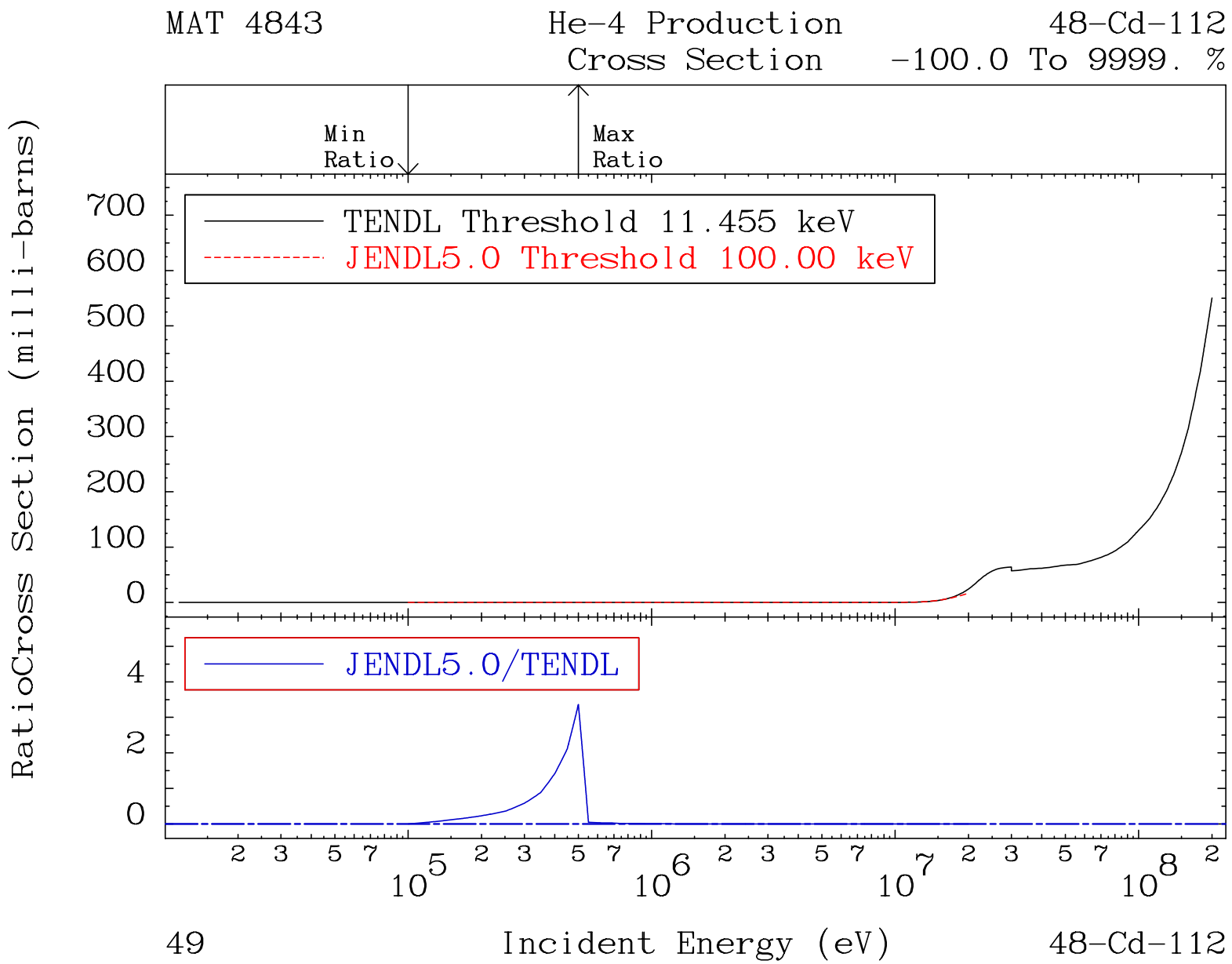

MAT 4843
(n,α)
48-Cd-112
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.455 keV
JENDL5.0 Threshold 100.00 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
44
48-Cd-112

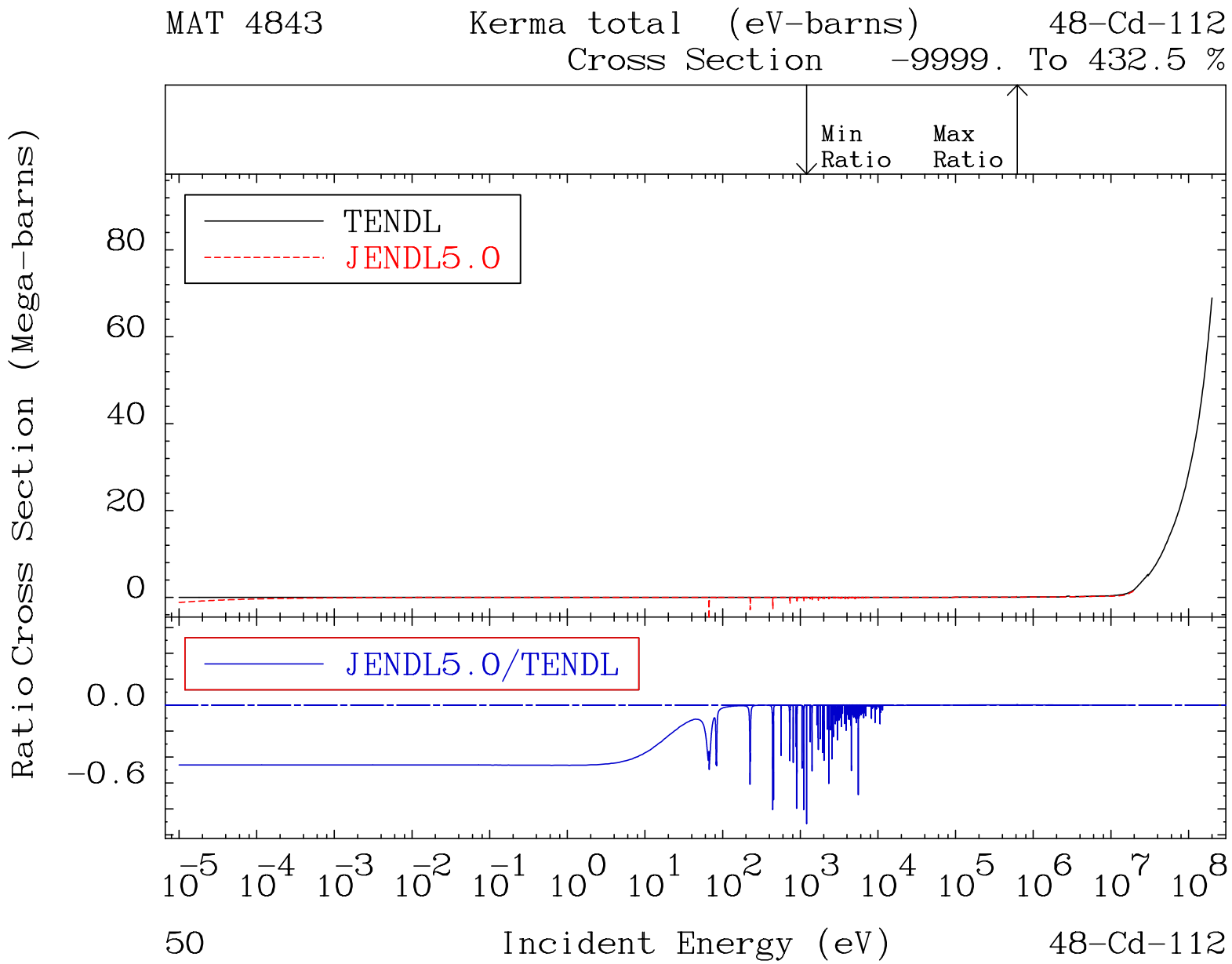

MAT 4843
Hydrogen Production
48-Cd-112
Cross Section
-100.0 To 3724. %
Max
Ratio
TENDL Threshold 3.2377 MeV
JENDL5.0 Threshold 3.1875 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
10^0
10^-8
10^-16
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
48-Cd-112

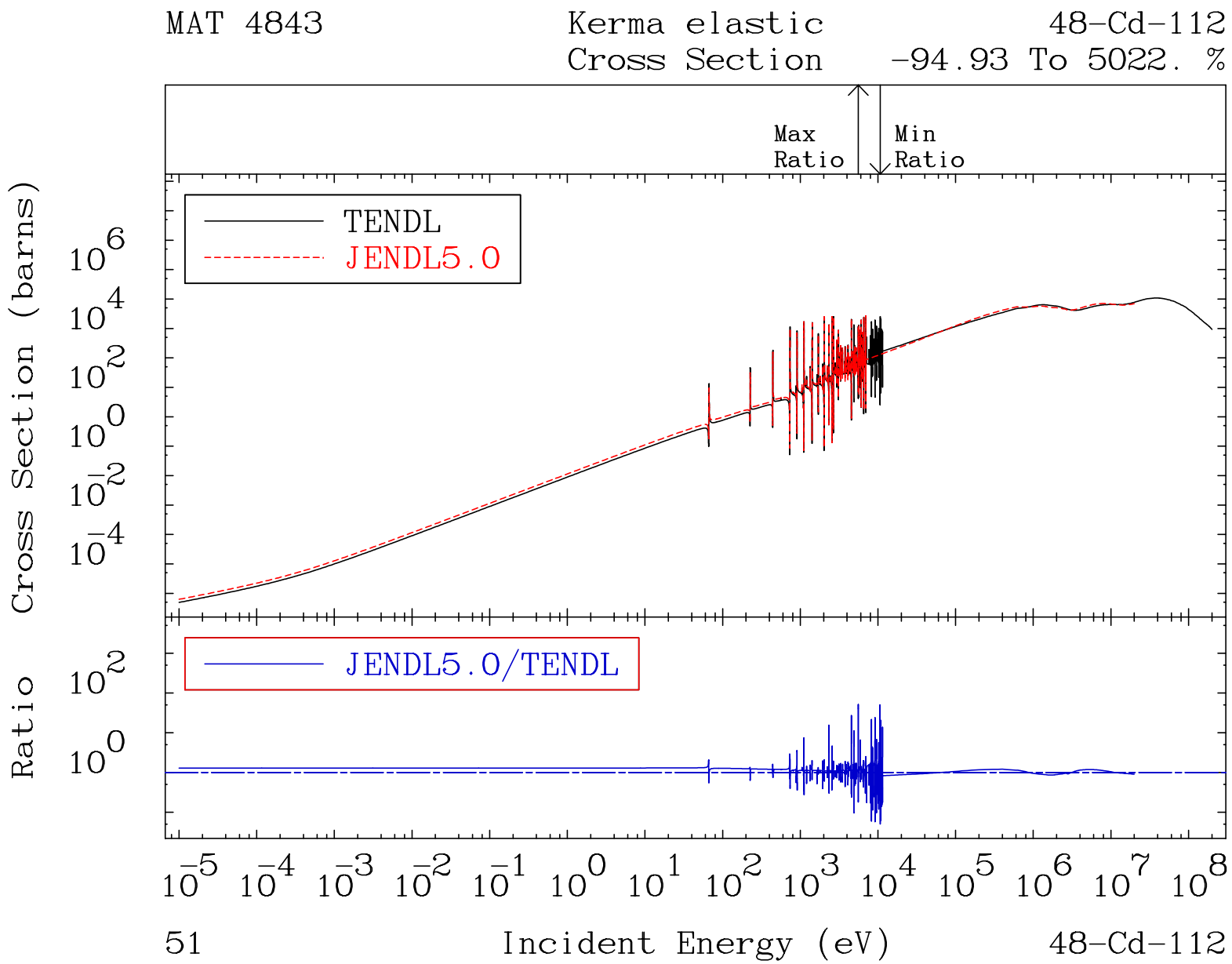

MAT 4843
Deuterium Production
48-Cd-112
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.4907 MeV
JENDL5.0 Threshold 7.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
100
0
8
10^7
2
3
4
5
6
7
8
10^8
2
46
Incident Energy (eV)
48-Cd-112

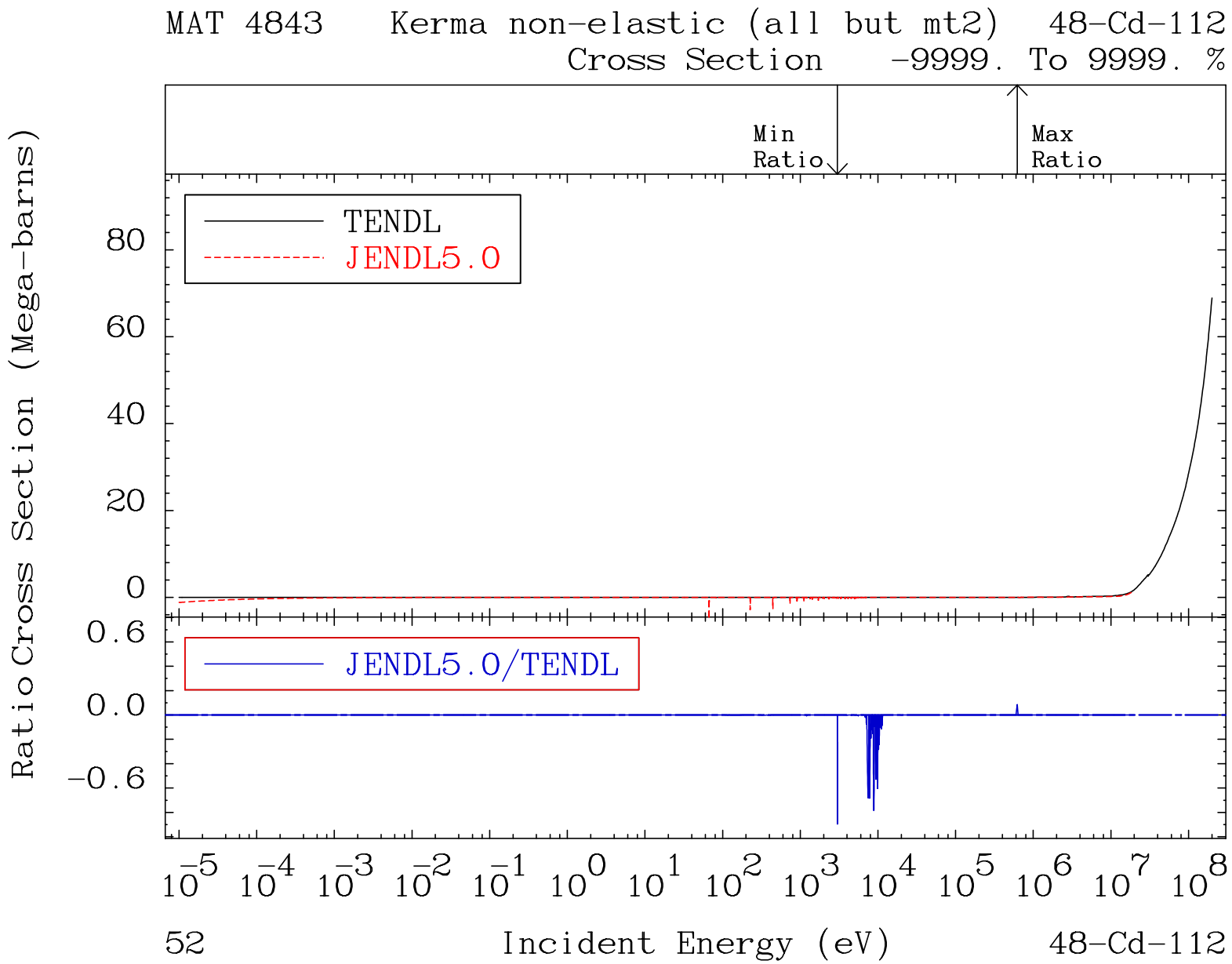

MAT 4843
Tritium Production
48-Cd-112
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 10.086 MeV
JENDL5.0 Threshold 10.089 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
12
8
4
0
10^7
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
48-Cd-112

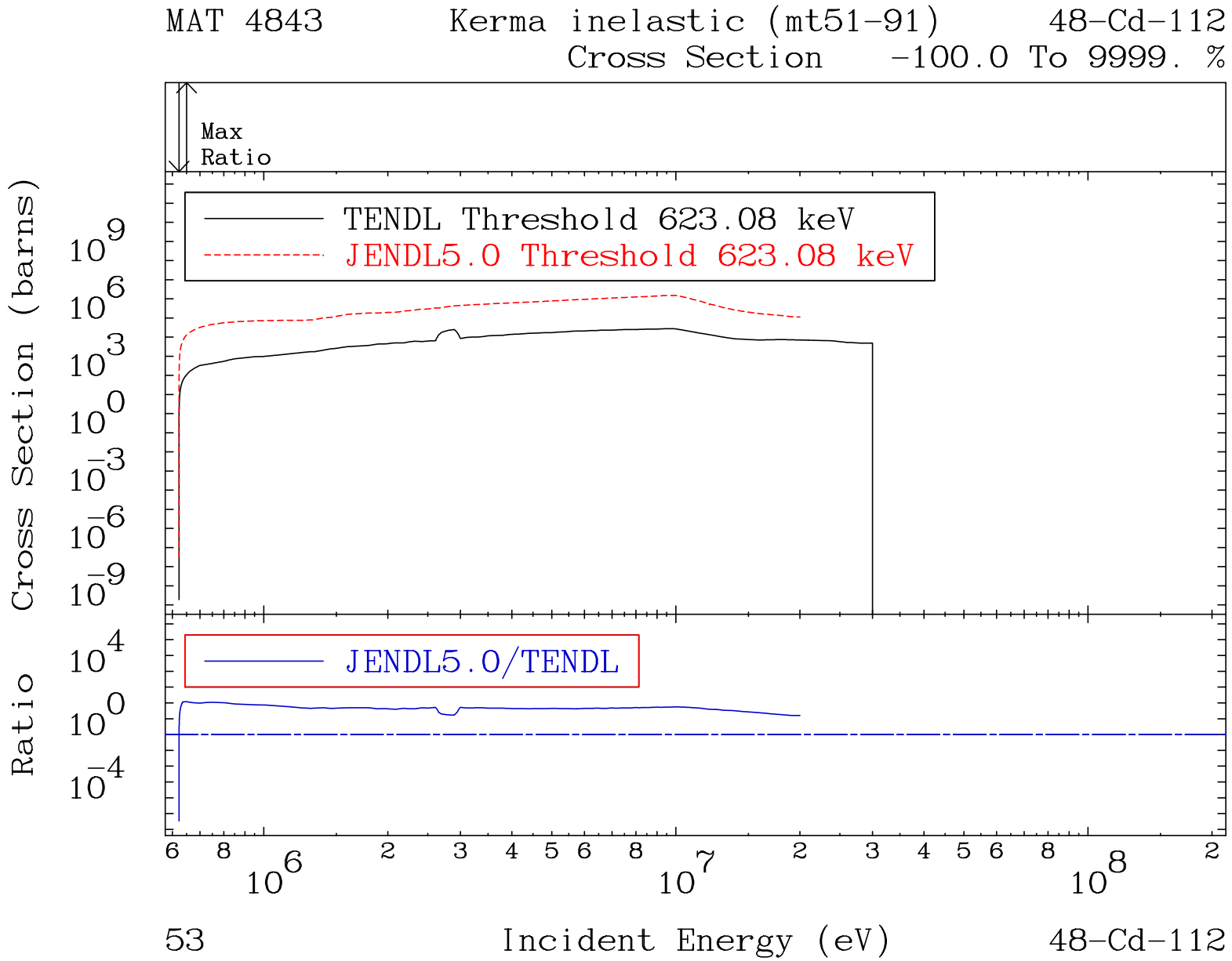

MAT 4843
He-3 Production
Cross Section
48-Cd-112
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 9.1859 MeV
JENDL5.0 Threshold 9.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
48-Cd-112

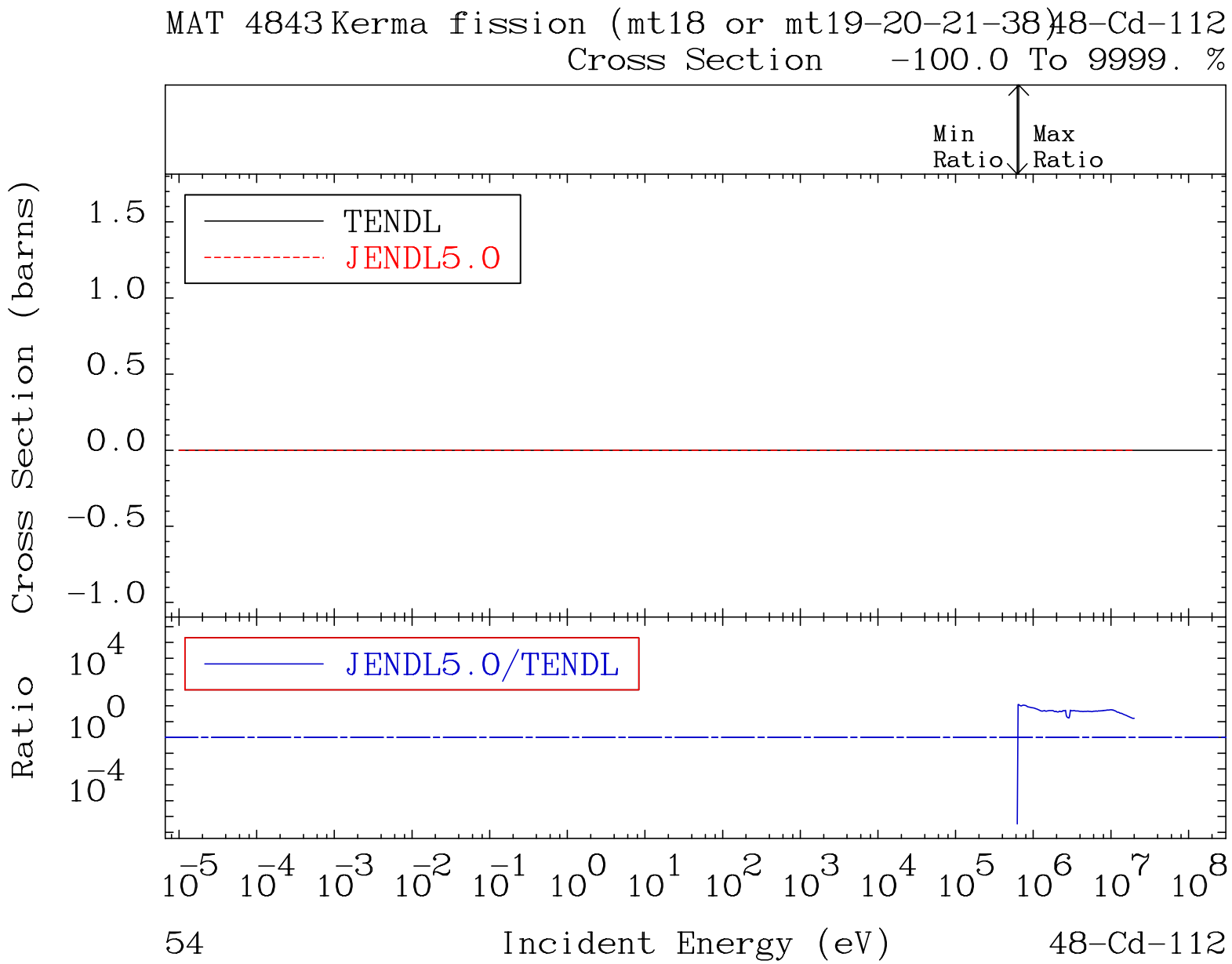

MAT 4843
He-4 Production
Cross Section
48-Cd-112
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.455 keV
JENDL5.0 Threshold 100.00 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
4
2
0
2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
49
Incident Energy (eV)
48-Cd-112

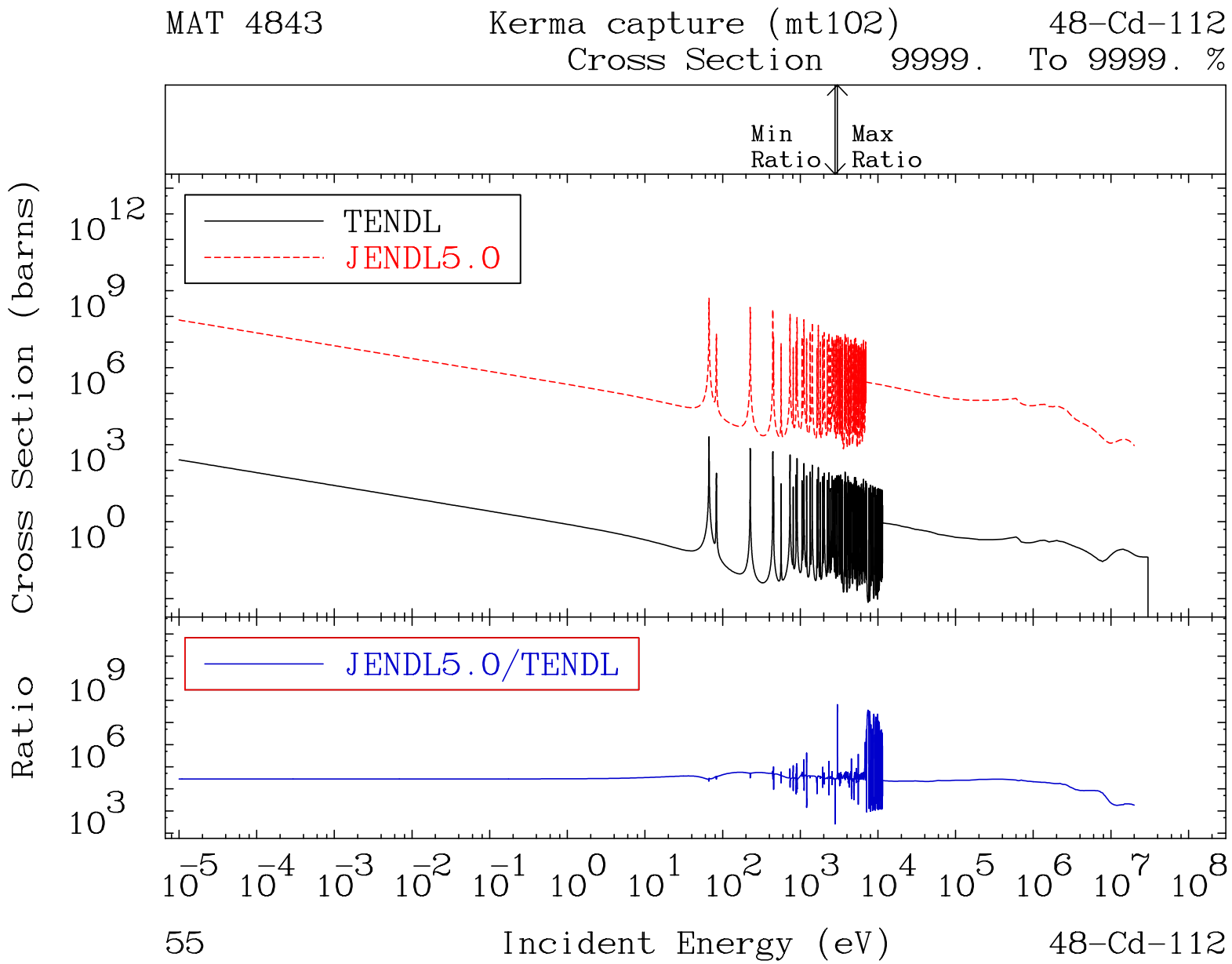

MAT 4843
Kerma total (eV-barns)
48-Cd-112
Cross Section -9999. To 432.5 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Mega-barns)
80
60
40
20
0
0.0
-0.6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
50
Incident Energy (eV)
48-Cd-112

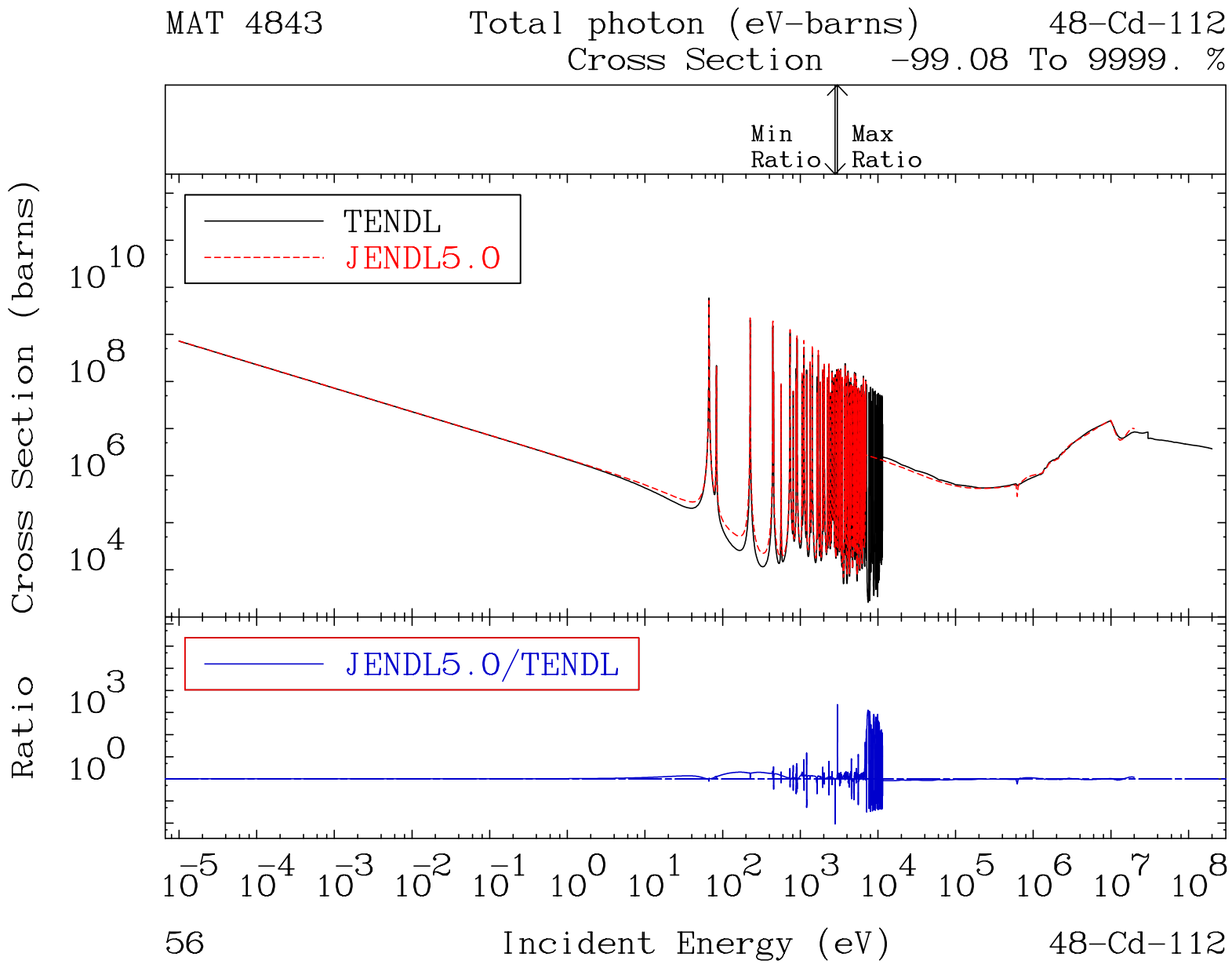

MAT 4843
Kerma elastic
Cross Section
48-Cd-112
-94.93 To 5022. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
51
48-Cd-112

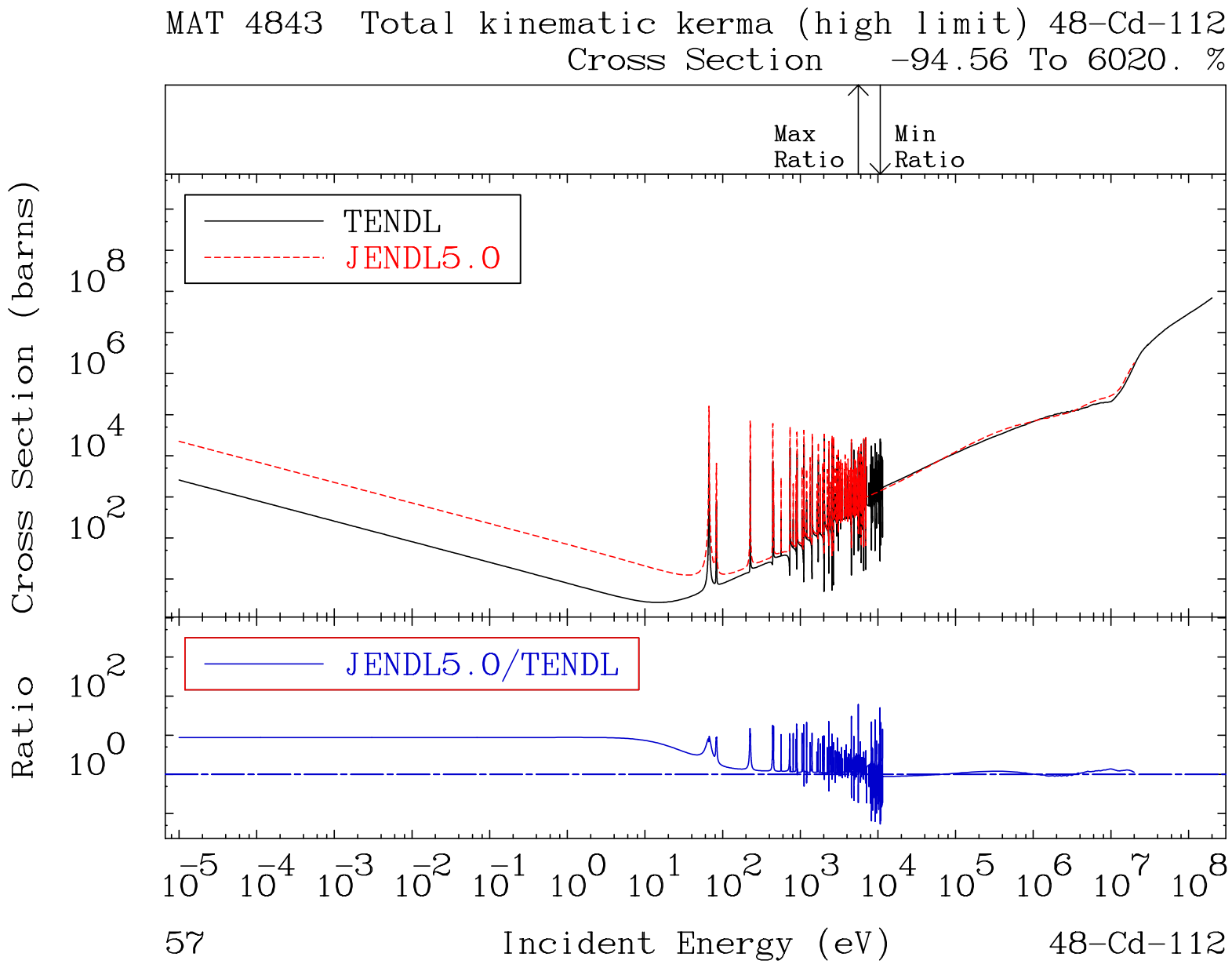

MAT 4843 Kerma non-elastic (all but mt2) 48-Cd-112
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Mega-barns)
80
60
40
20
0
0.6
0.0
-0.6
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
52
Incident Energy (eV)
48-Cd-112

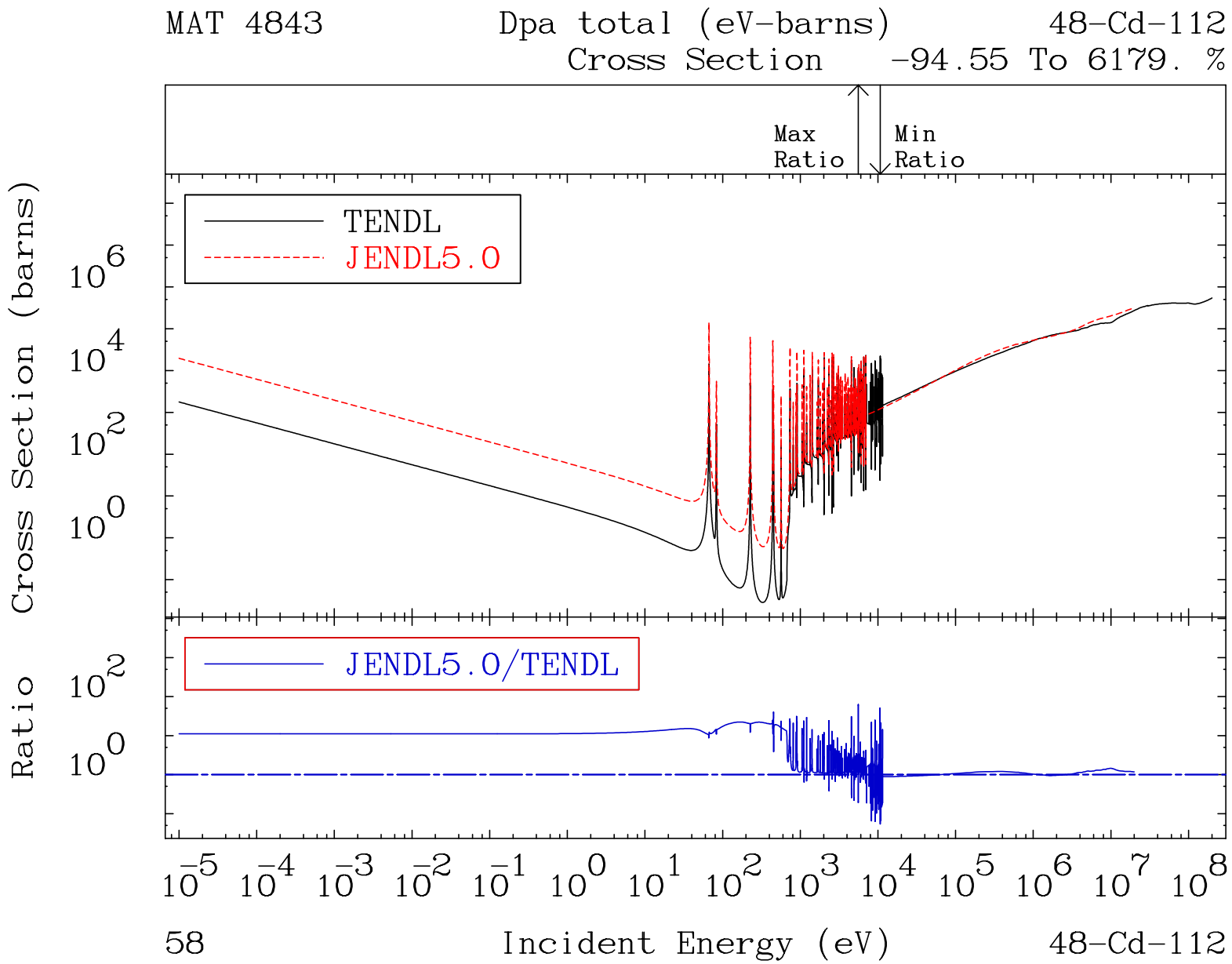

MAT 4843 Kerma inelastic (mt51-91) 48-Cd-112
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 623.08 keV
JENDL5.0 Threshold 623.08 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
48-Cd-112

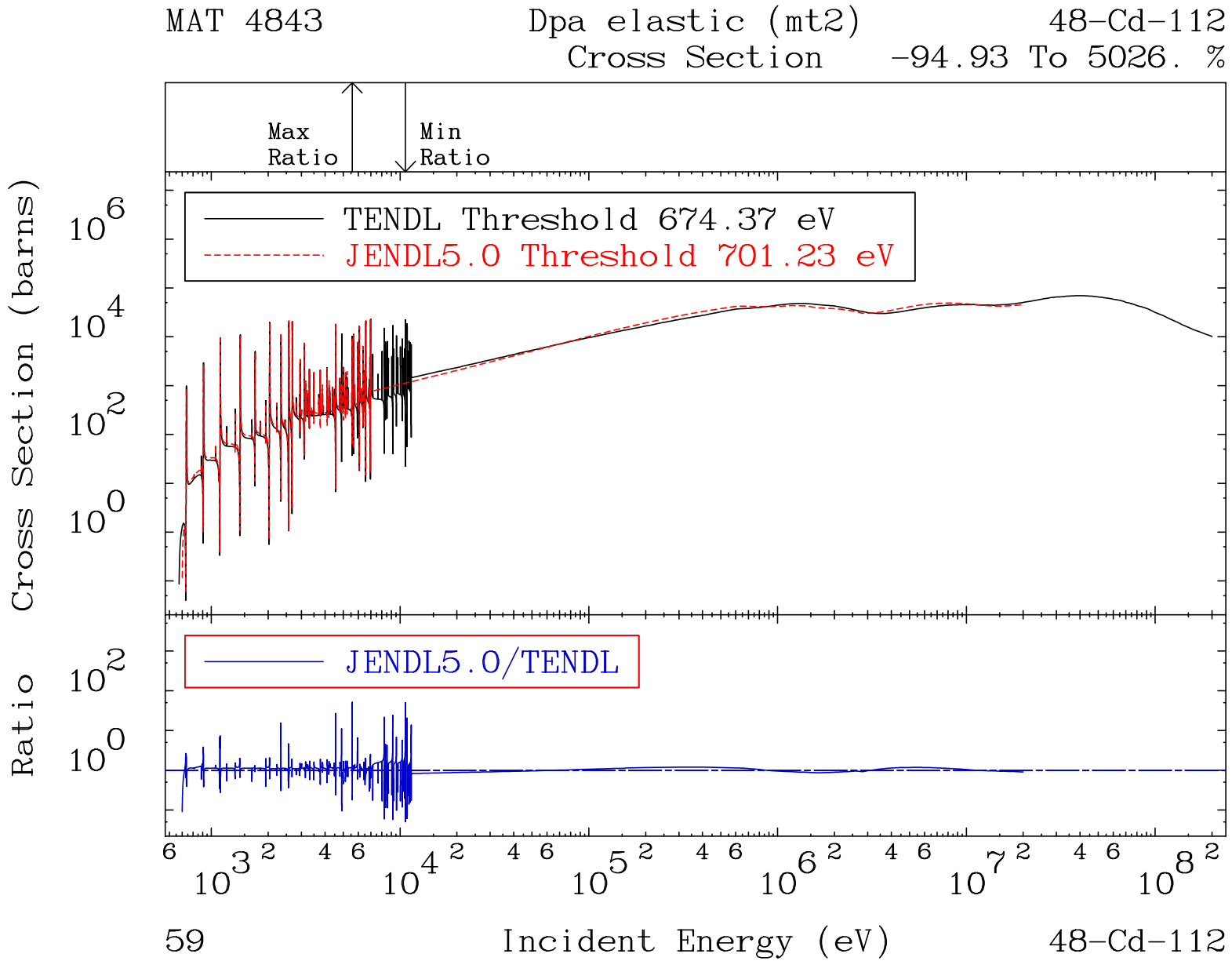

MAT 4843 Kerma fission (mt18 or mt19-20-21-38) 48-Cd-112
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{4}
10^{0}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
54
Incident Energy (eV)
48-Cd-112

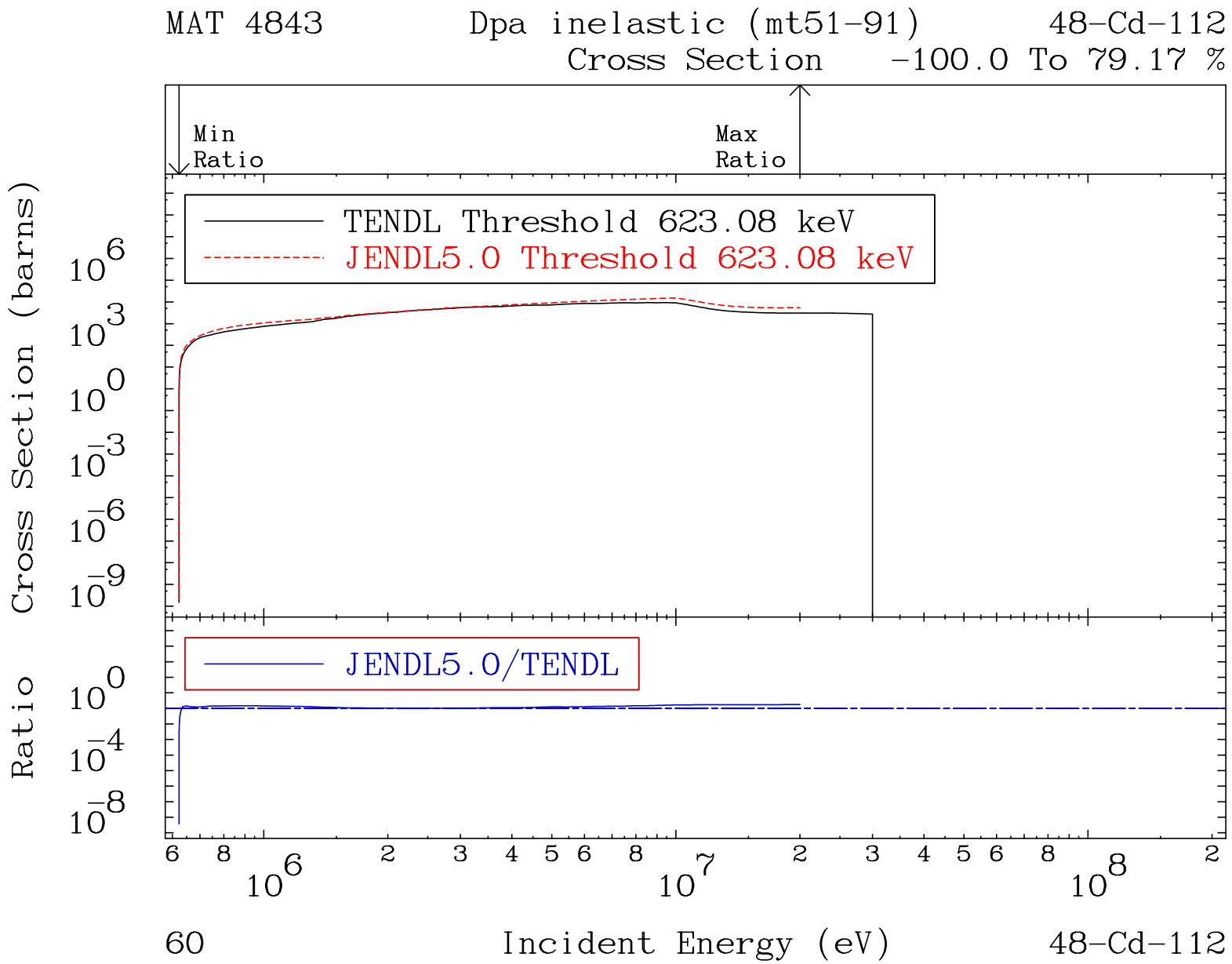

MAT 4843
Kerma capture (mt102)
48-Cd-112
Cross Section 9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
48-Cd-112

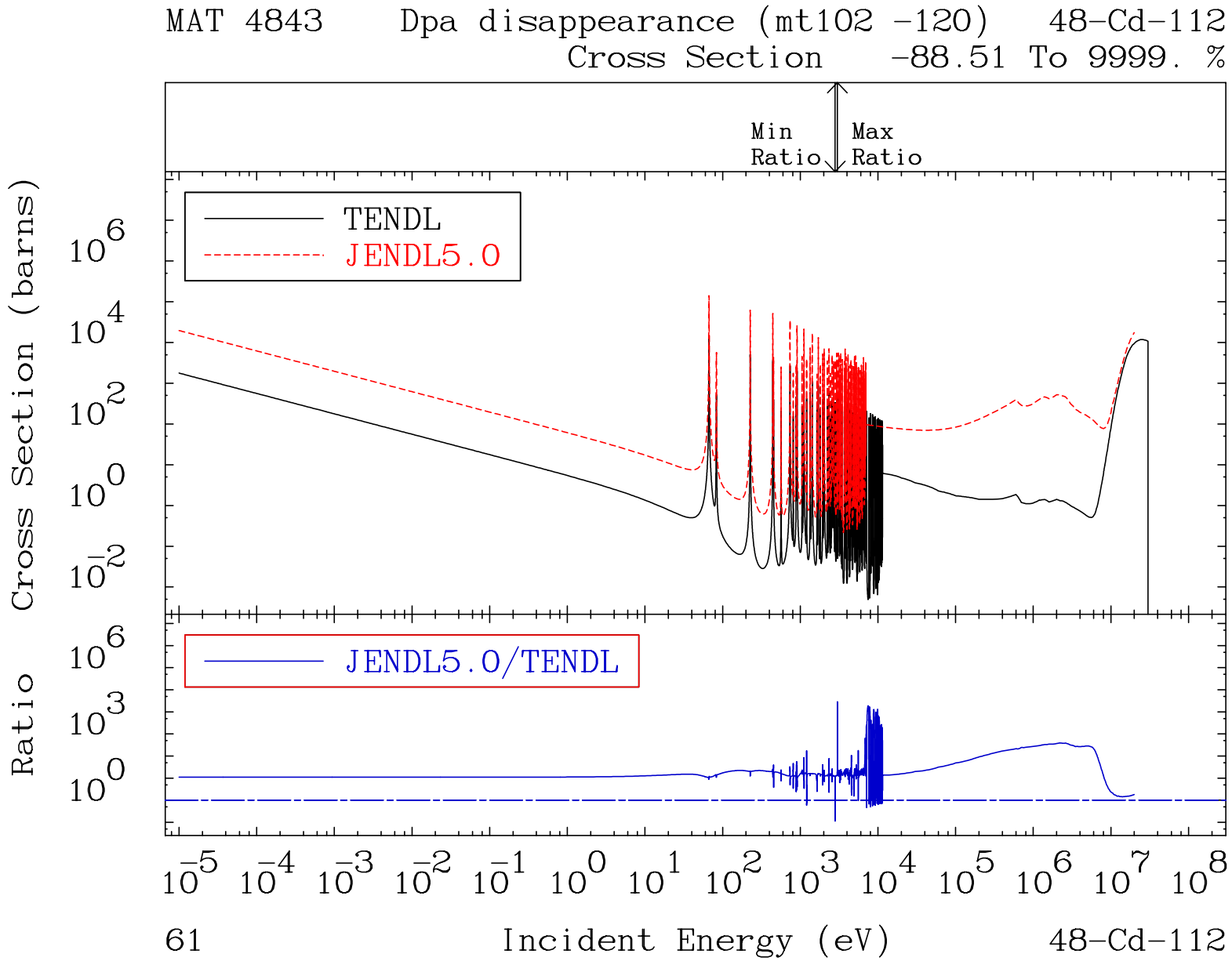

MAT 4843
Total photon (eV-barns)
48-Cd-112
Cross Section -99.08 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^10
10^8
10^6
10^4
JENDL5.0/TENDL
Ratio
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
56
Incident Energy (eV)
48-Cd-112

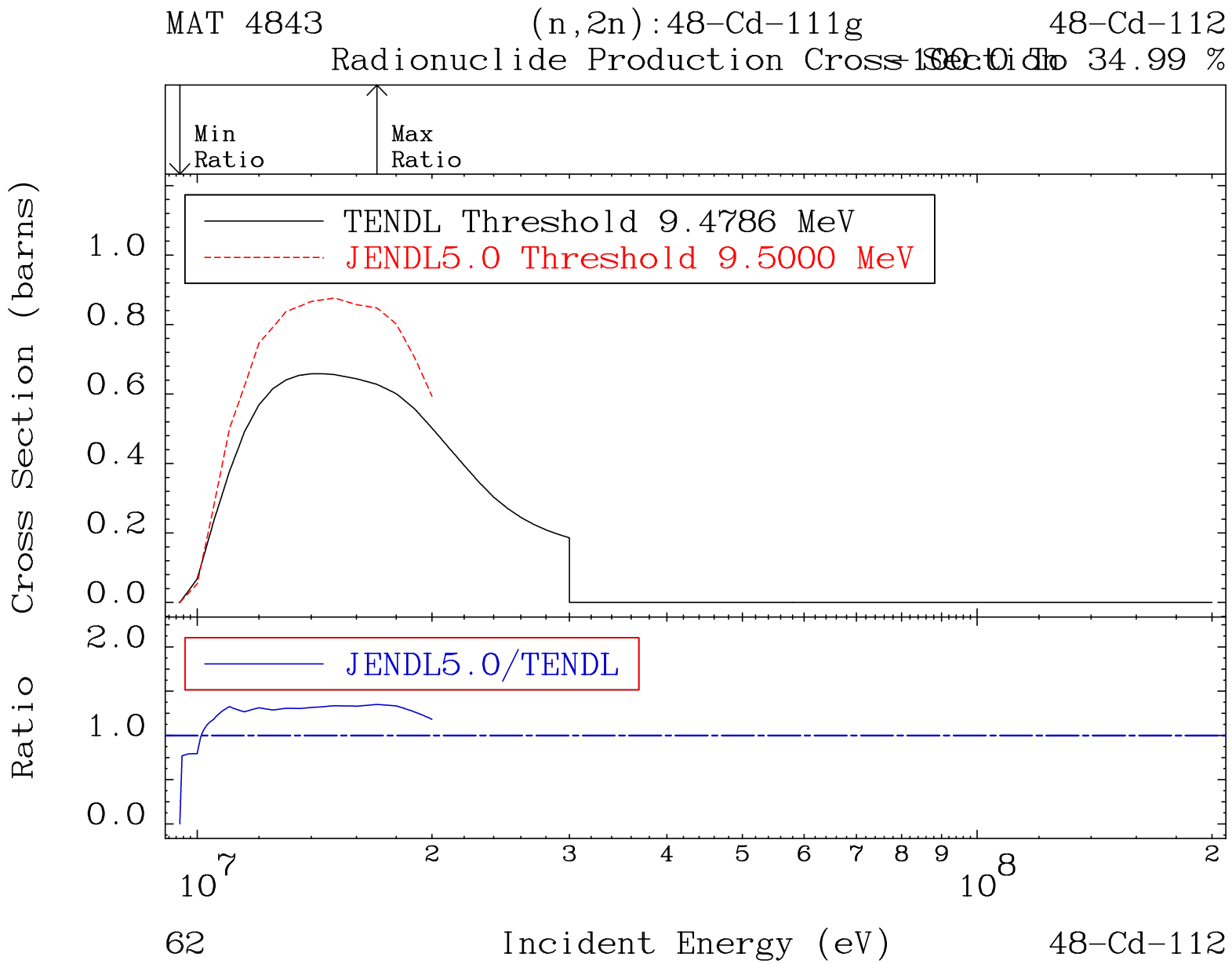

MAT 4843 Total kinematic kerma (high limit) 48-Cd-112
Cross Section -94.56 To 6020. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
57
48-Cd-112

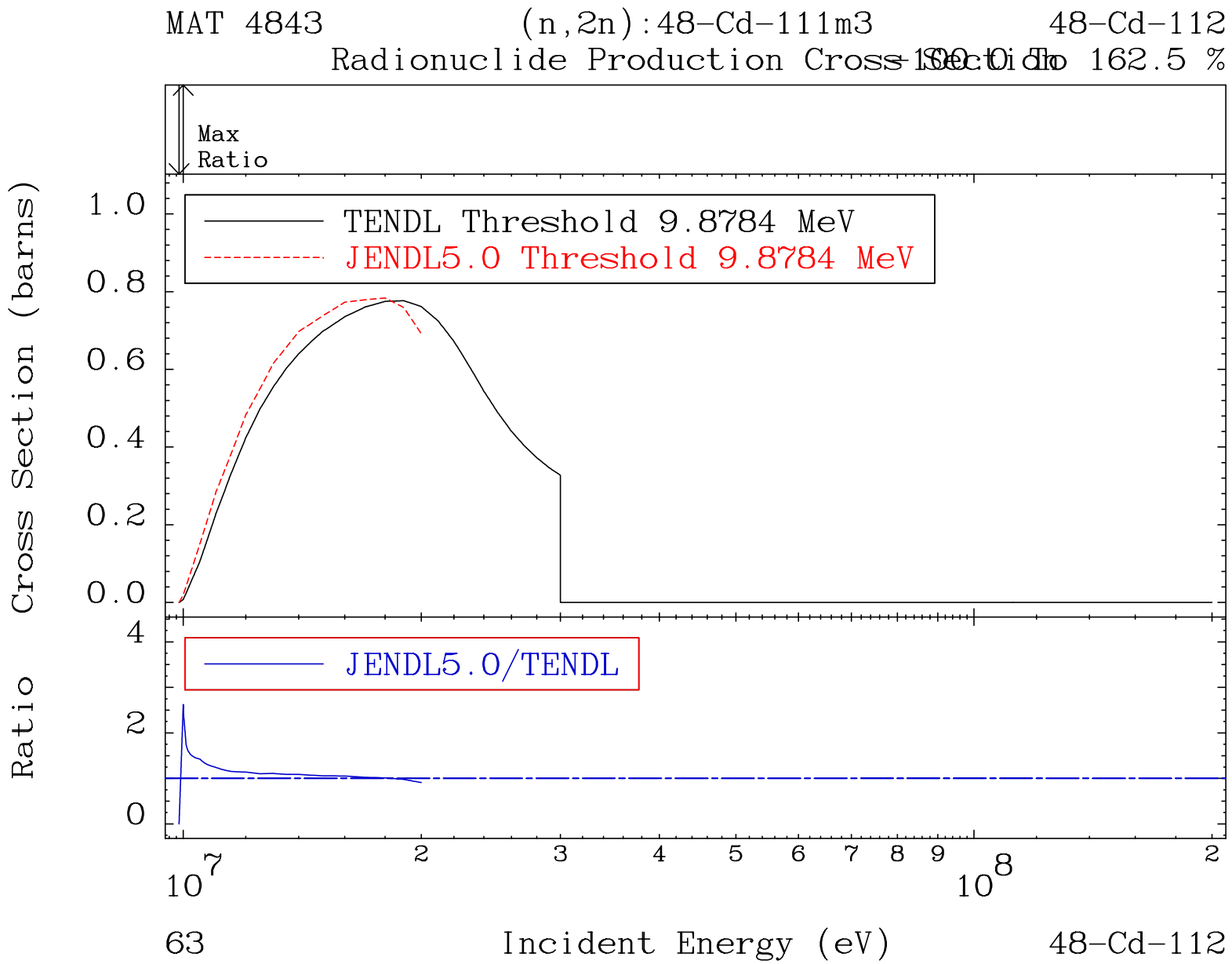

MAT 4843
Dpa total (eV-barns)
48-Cd-112
Cross Section
-94.55 To 6179. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
58
48-Cd-112

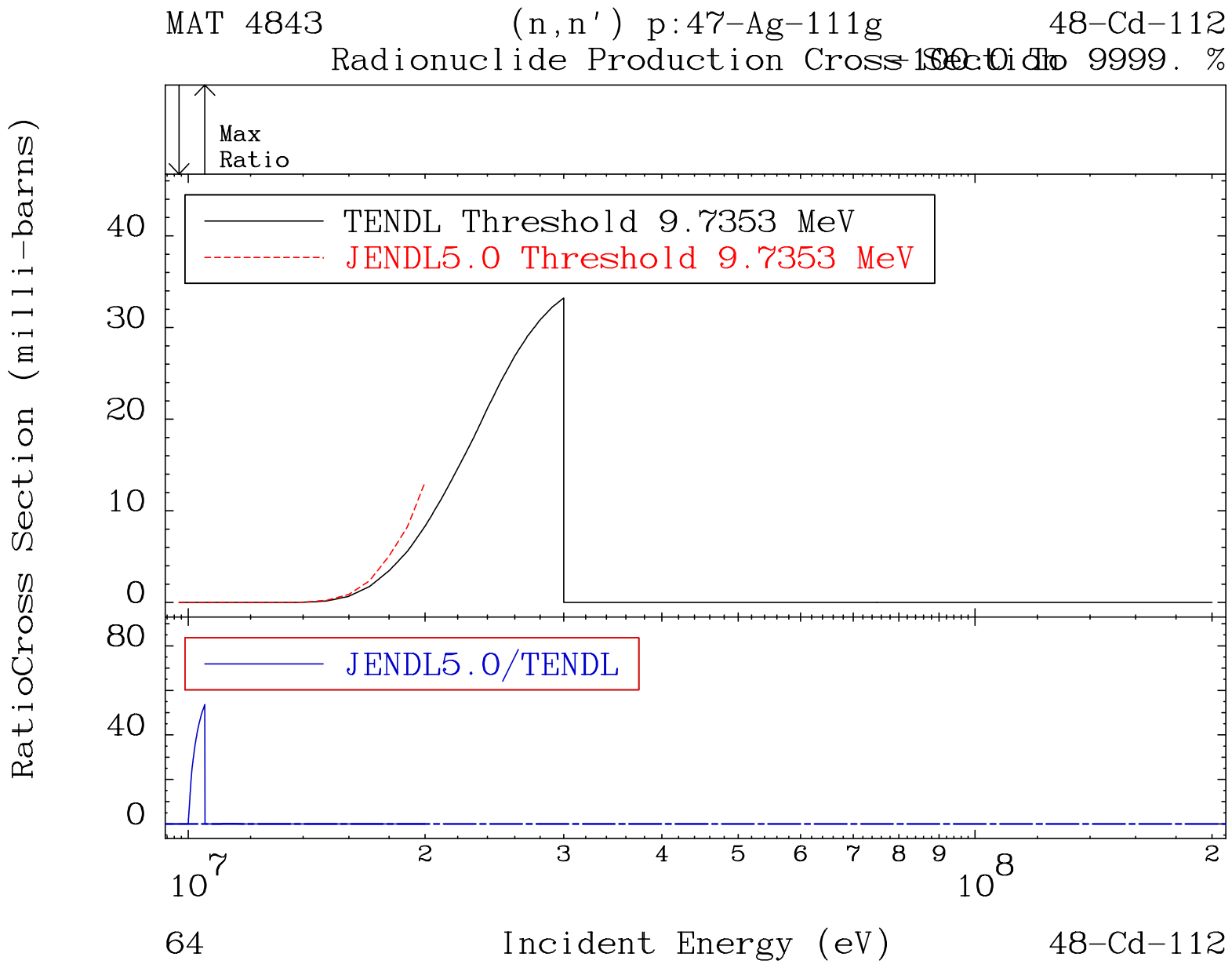

MAT 4843
Dpa elastic (mt2)
Cross Section
48-Cd-112
-94.93 To 5026. %
Max Ratio
Min Ratio
TENDL Threshold 674.37 eV
JENDL5.0 Threshold 701.23 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
48-Cd-112

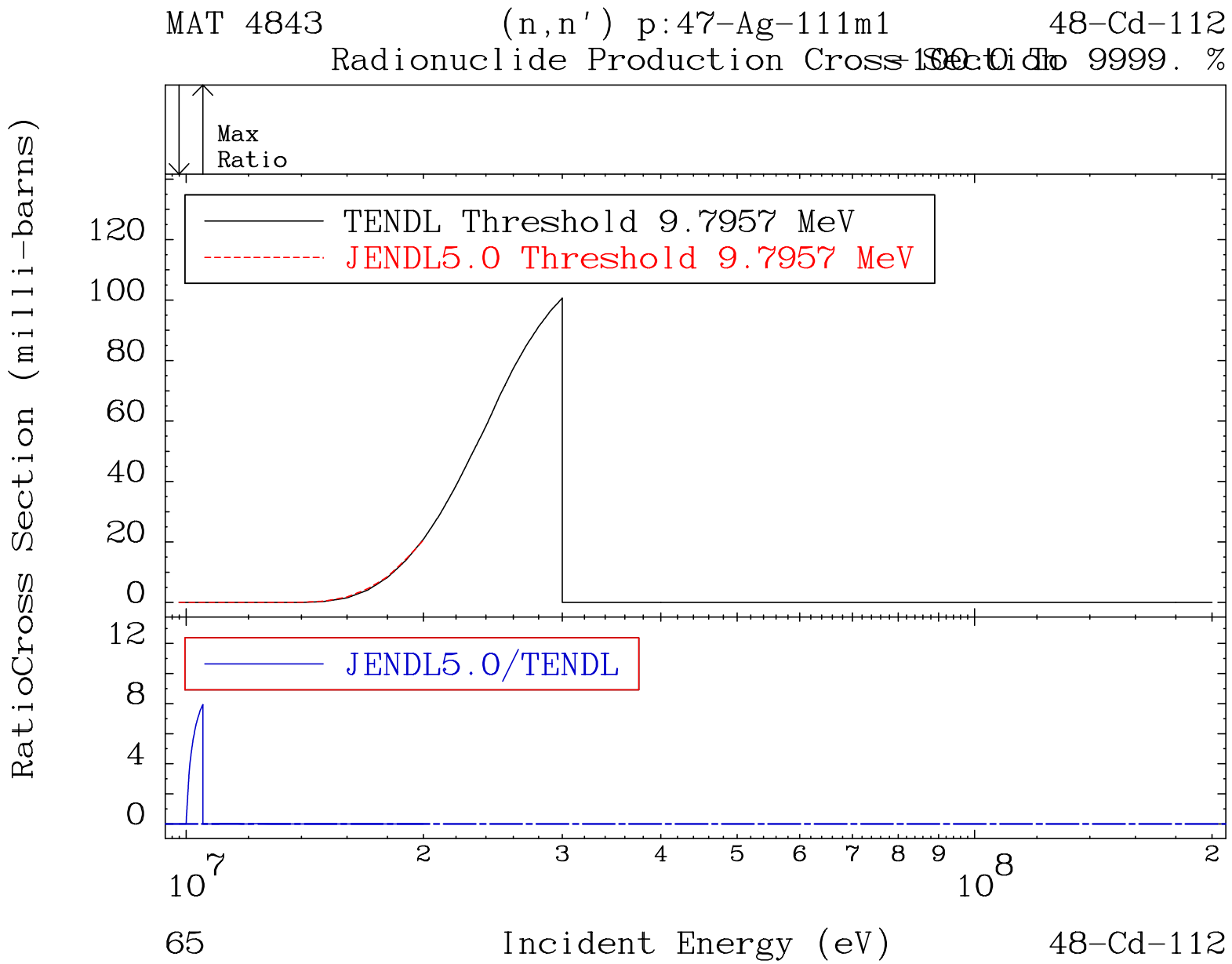

MAT 4843
Dpa inelastic (mt51-91)
48-Cd-112
Cross Section -100.0 To 79.17 %
Min Ratio
Max Ratio
TENDL Threshold 623.08 keV
JENDL5.0 Threshold 623.08 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
48-Cd-112

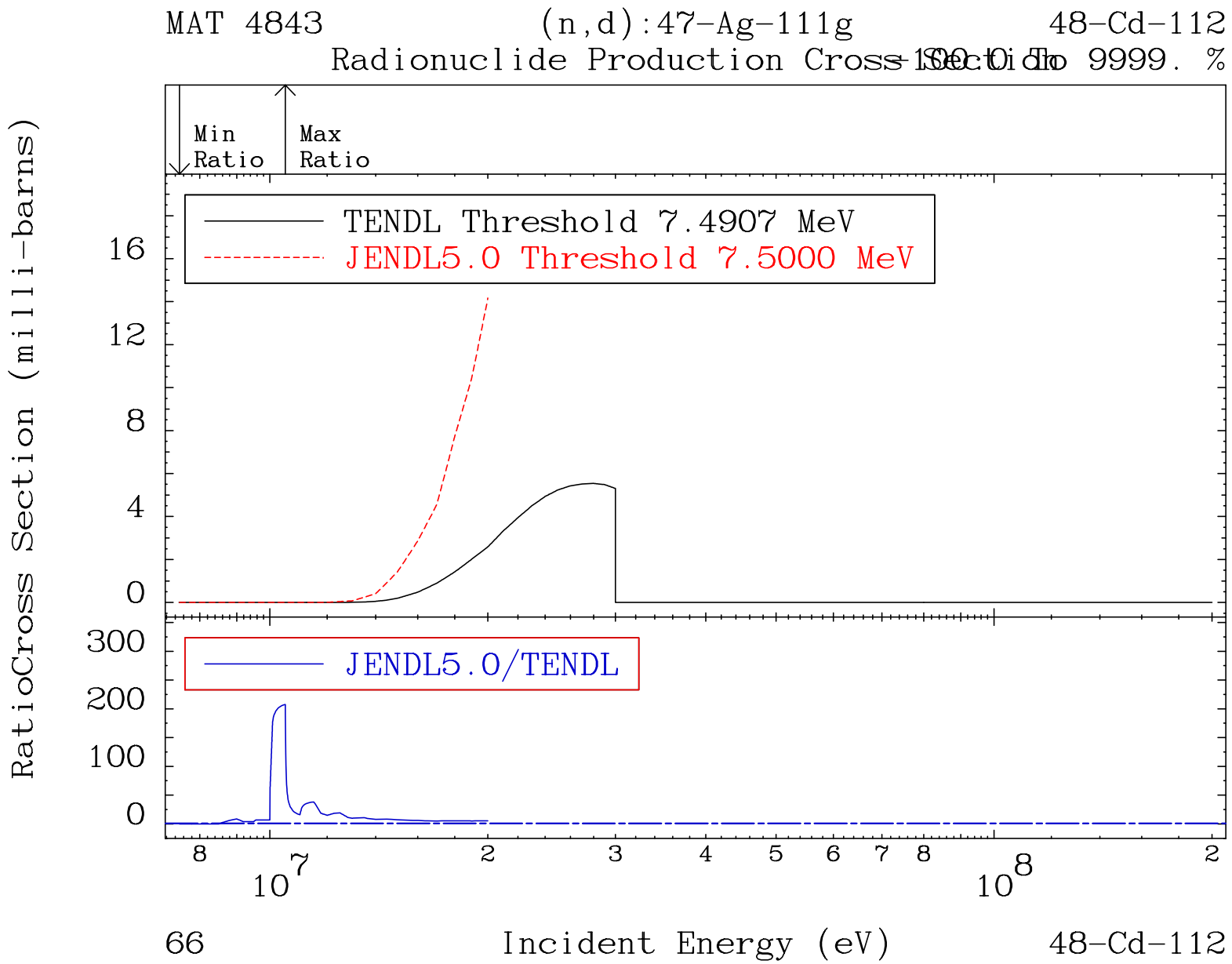

MAT 4843 Dpa disappearance (mt102 -120) 48-Cd-112
Cross Section -88.51 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
48-Cd-112

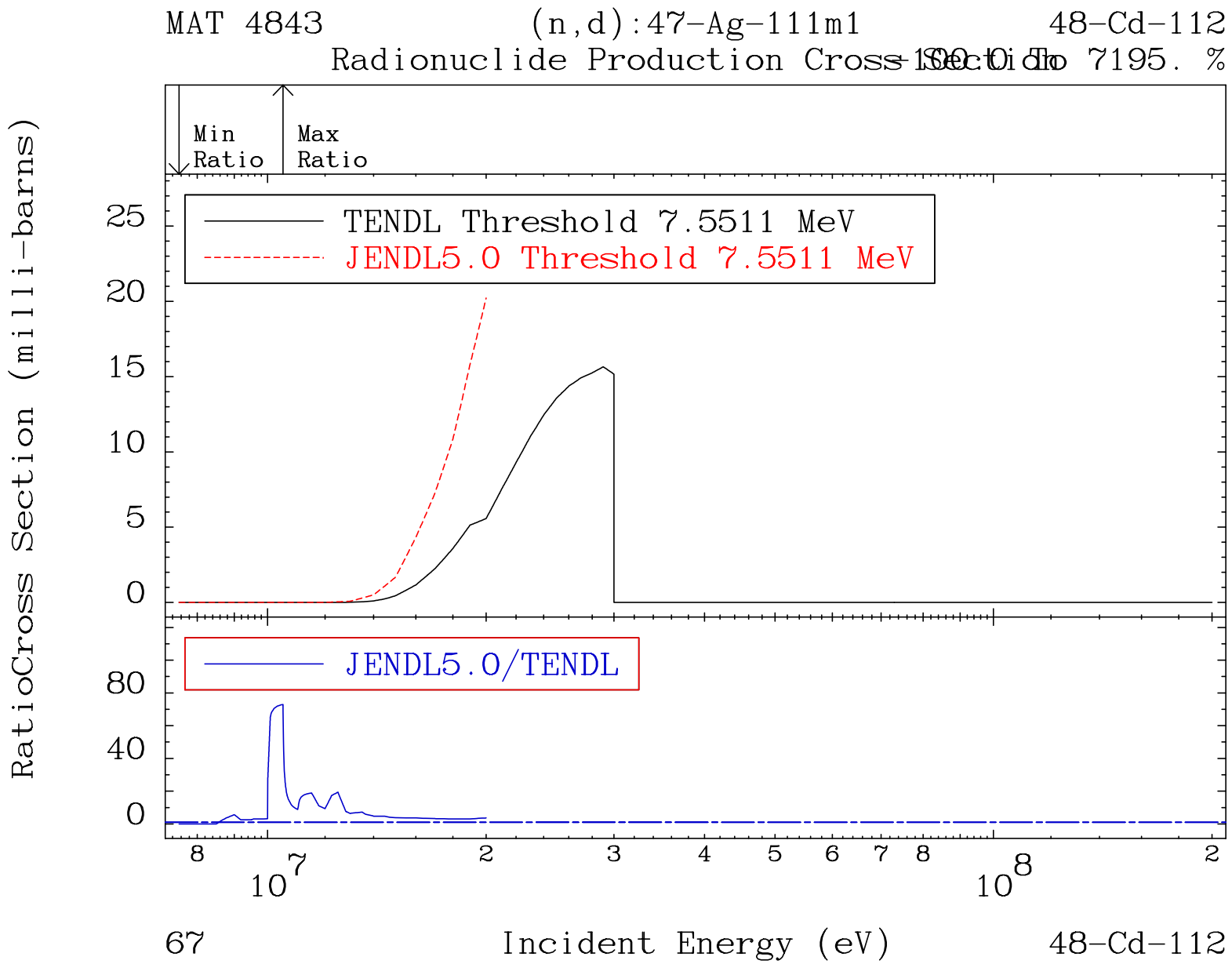

MAT 4843
(n,2n):48-Cd-111g
48-Cd-112
Radionuclide Production Cross Section To 34.99 %
Min Ratio
Max Ratio
TENDL Threshold 9.4786 MeV
JENDL5.0 Threshold 9.5000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
48-Cd-112


MAT 4843
(n,2n):48-Cd-111m3
48-Cd-112
Radionuclide Production Cross Section To 162.5 %
Max
Ratio
TENDL Threshold 9.8784 MeV
JENDL5.0 Threshold 9.8784 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
4
2
0
10^7
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
48-Cd-112


MAT 4843
(n,n') p:47-Ag-111g
48-Cd-112
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 9.7353 MeV
JENDL5.0 Threshold 9.7353 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
80
40
0
10^7
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
48-Cd-112


MAT 4843
(n,n') p:47-Ag-111m1
48-Cd-112
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 9.7957 MeV
JENDL5.0 Threshold 9.7957 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
12
8
4
0
10^7
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
48-Cd-112


MAT 4843
(n,d):47-Ag-111g
48-Cd-112
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.4907 MeV
JENDL5.0 Threshold 7.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
300
200
100
0
8
2
3
4
5
6
7
8
2
10^7
10^8
66
Incident Energy (eV)
48-Cd-112


MAT 4843
(n,d):47-Ag-111m1
48-Cd-112
Radionuclide Production Cross Section To 7195. %
Min Ratio
Max Ratio
TENDL Threshold 7.5511 MeV
JENDL5.0 Threshold 7.5511 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
80
40
0
8
2
3
4
5
6
7
8
2
10^7
10^8
67
Incident Energy (eV)
48-Cd-112