Program Complot
(Version 2018-1)
by
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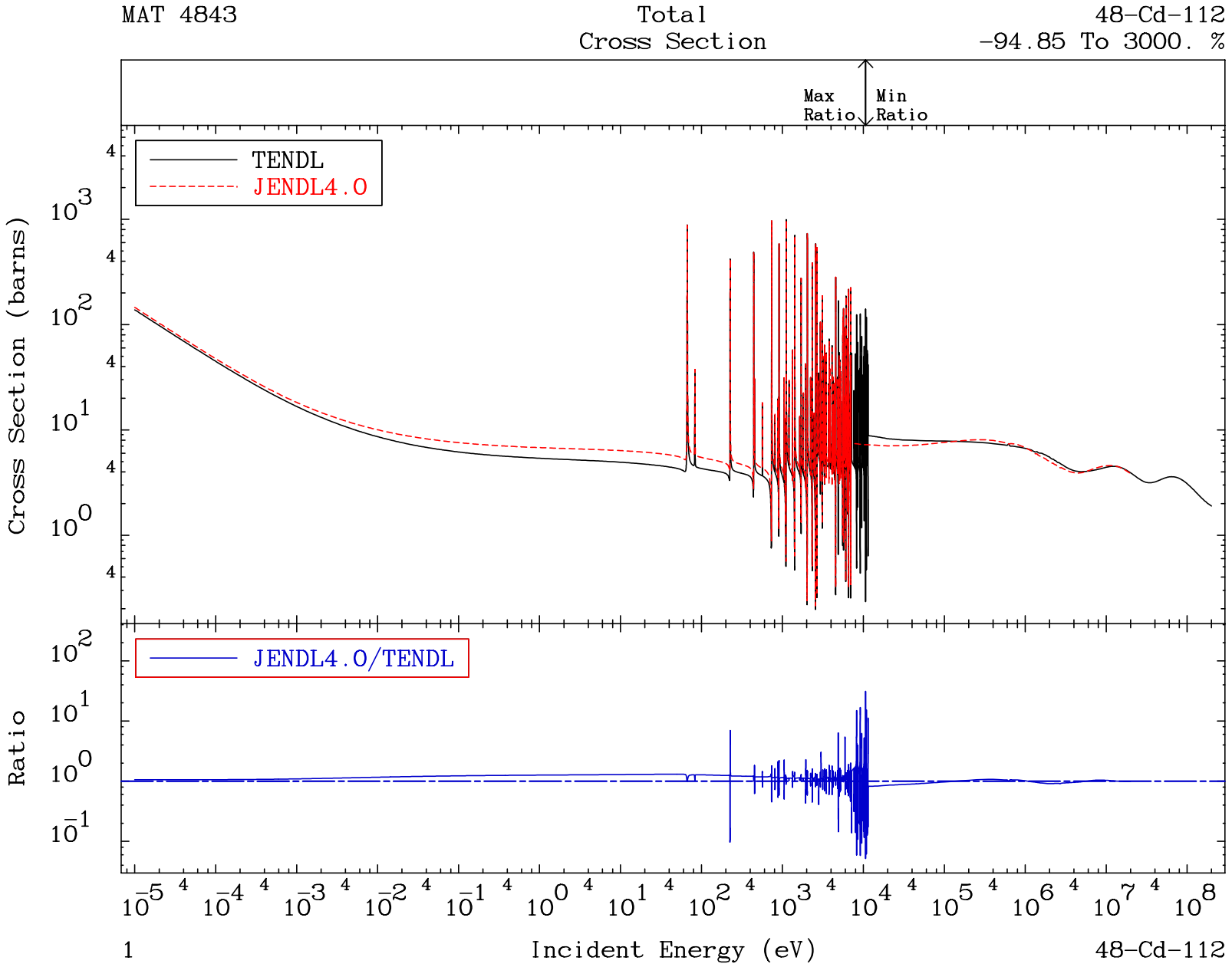
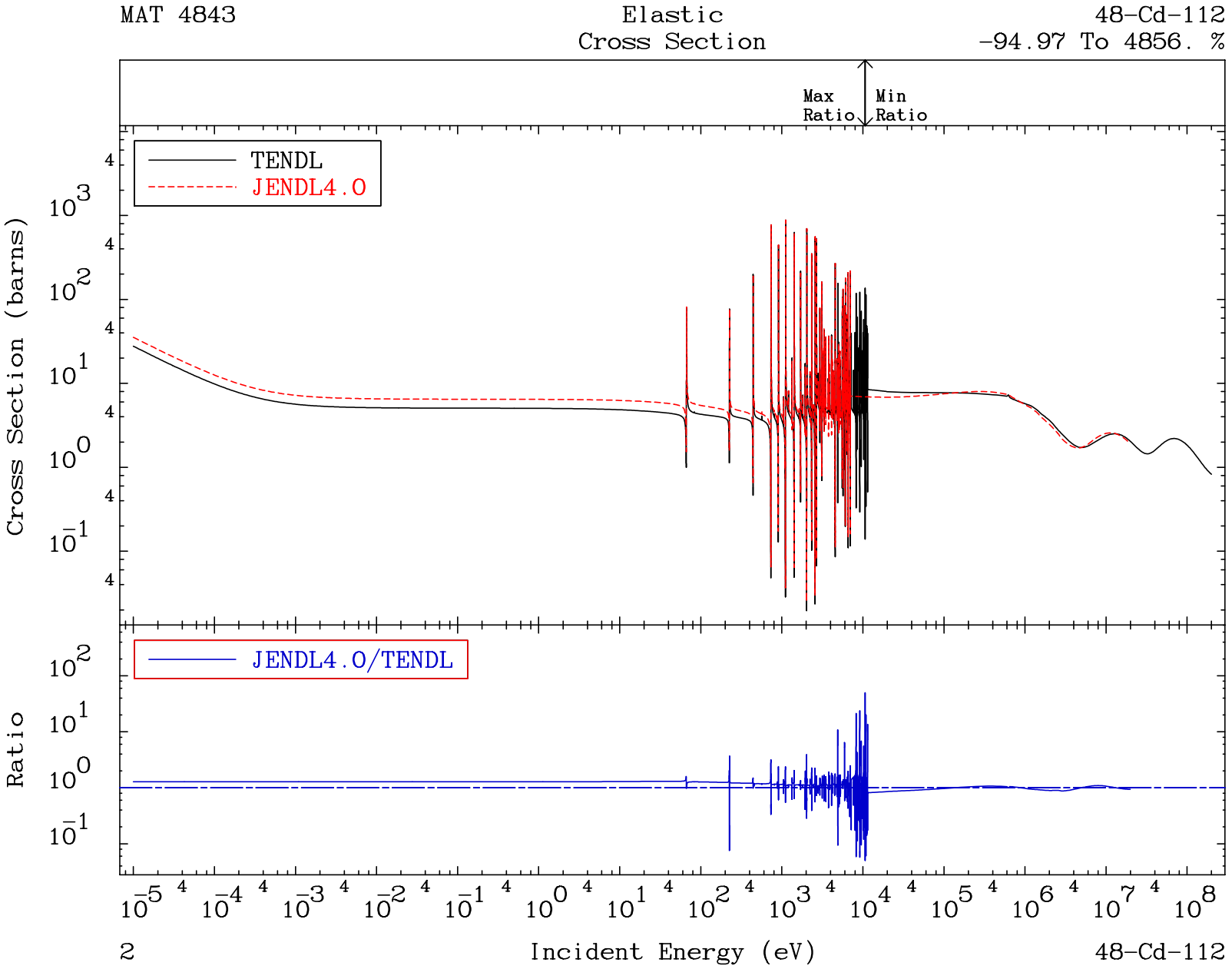
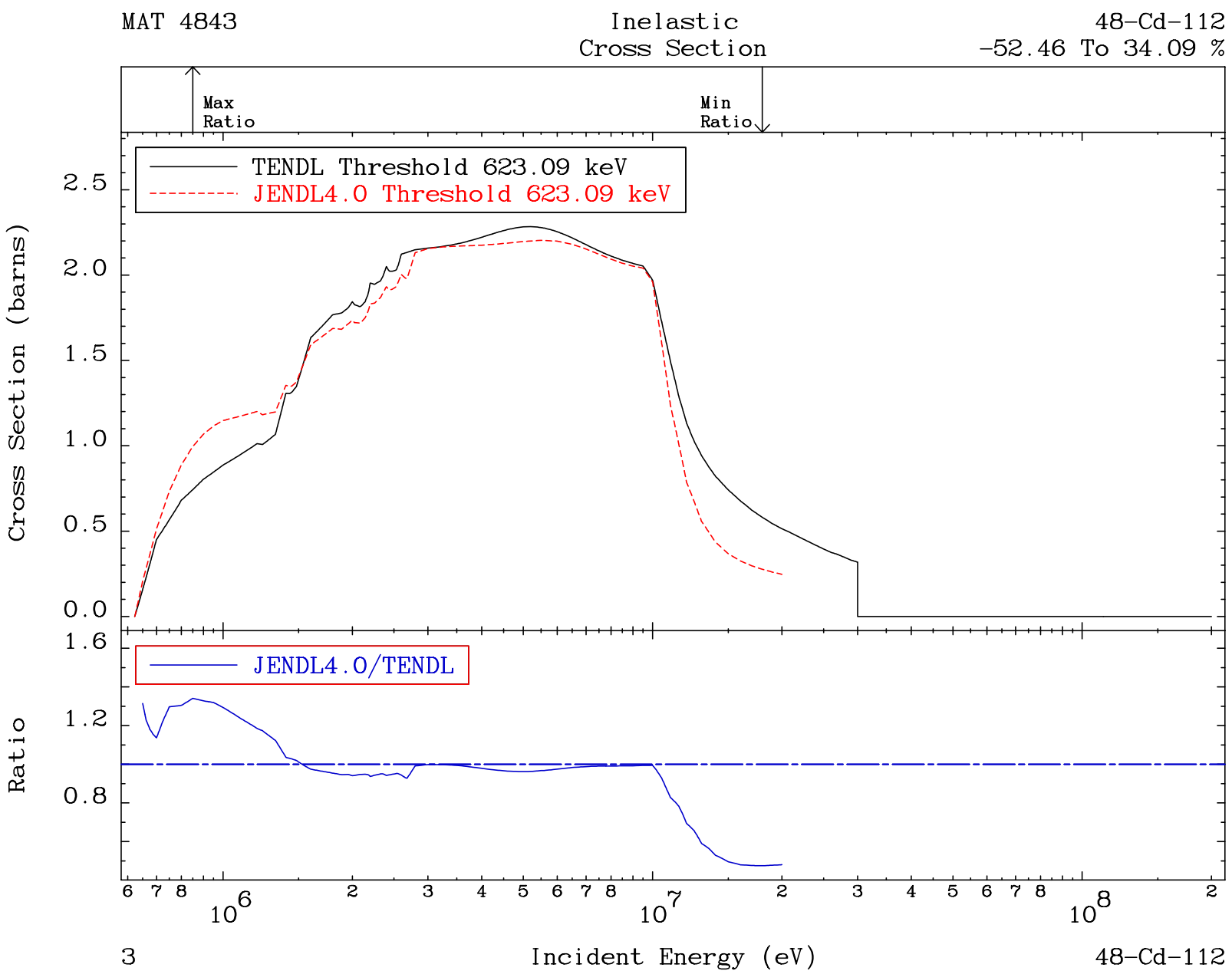
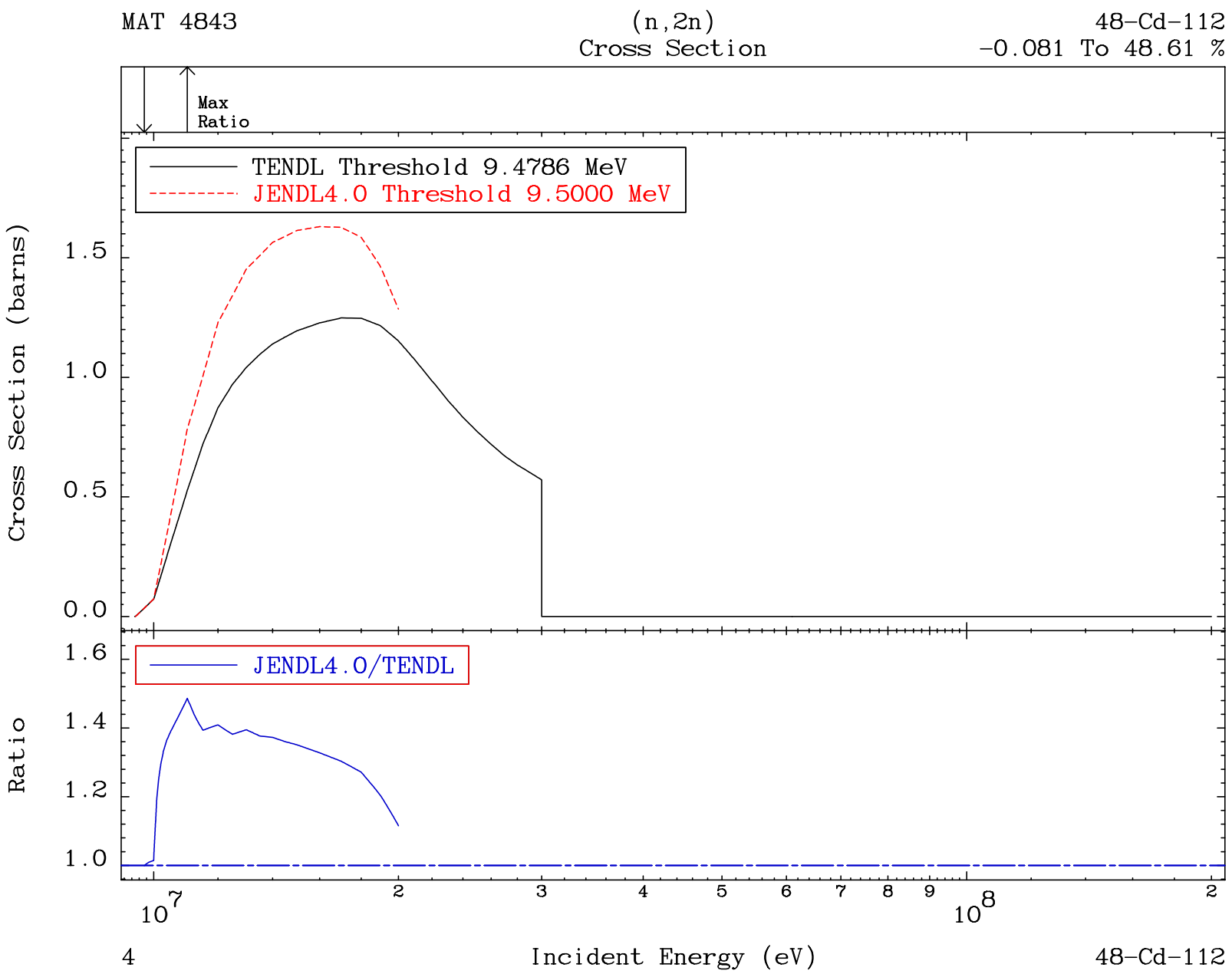
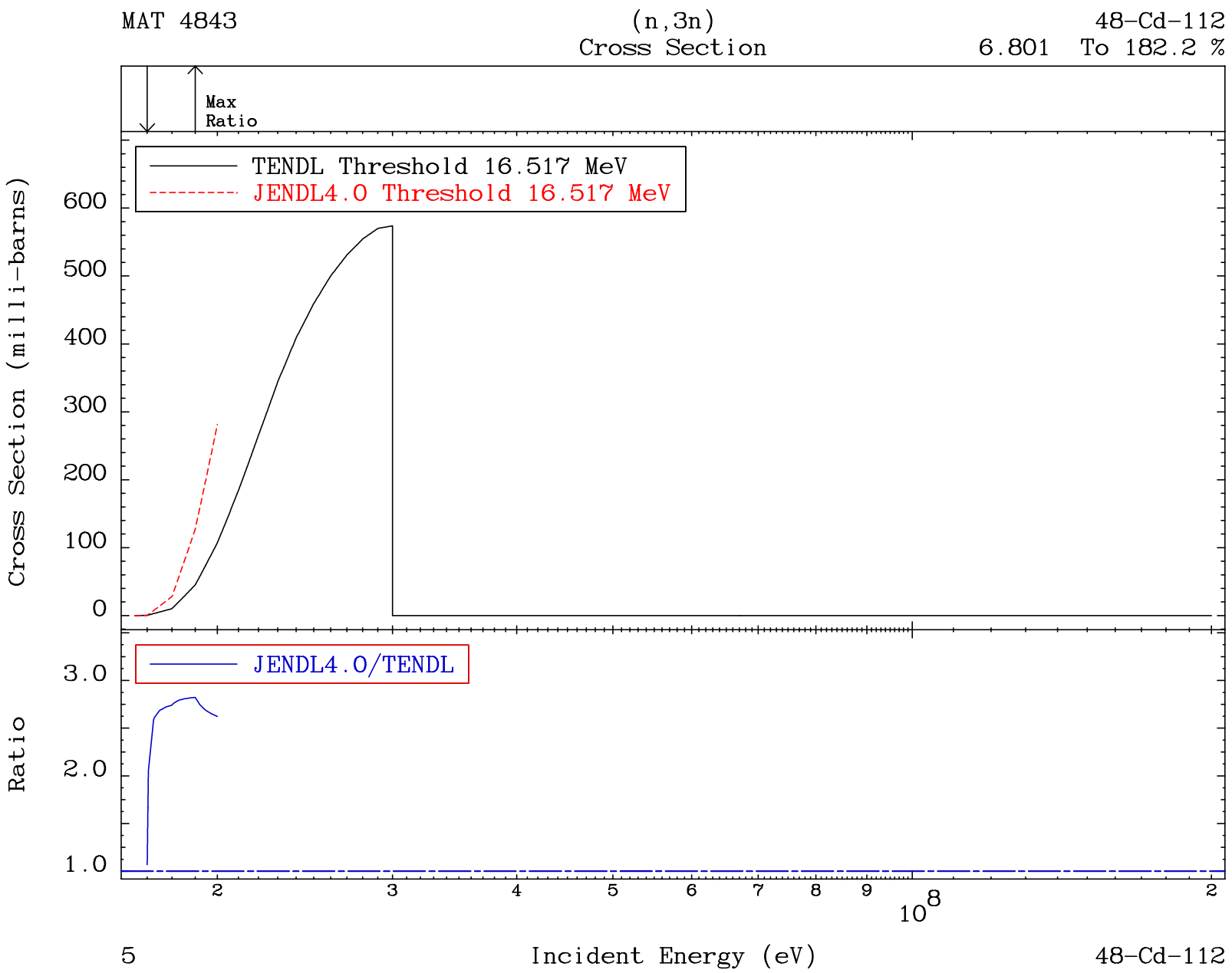
Press Mouse Button to Start

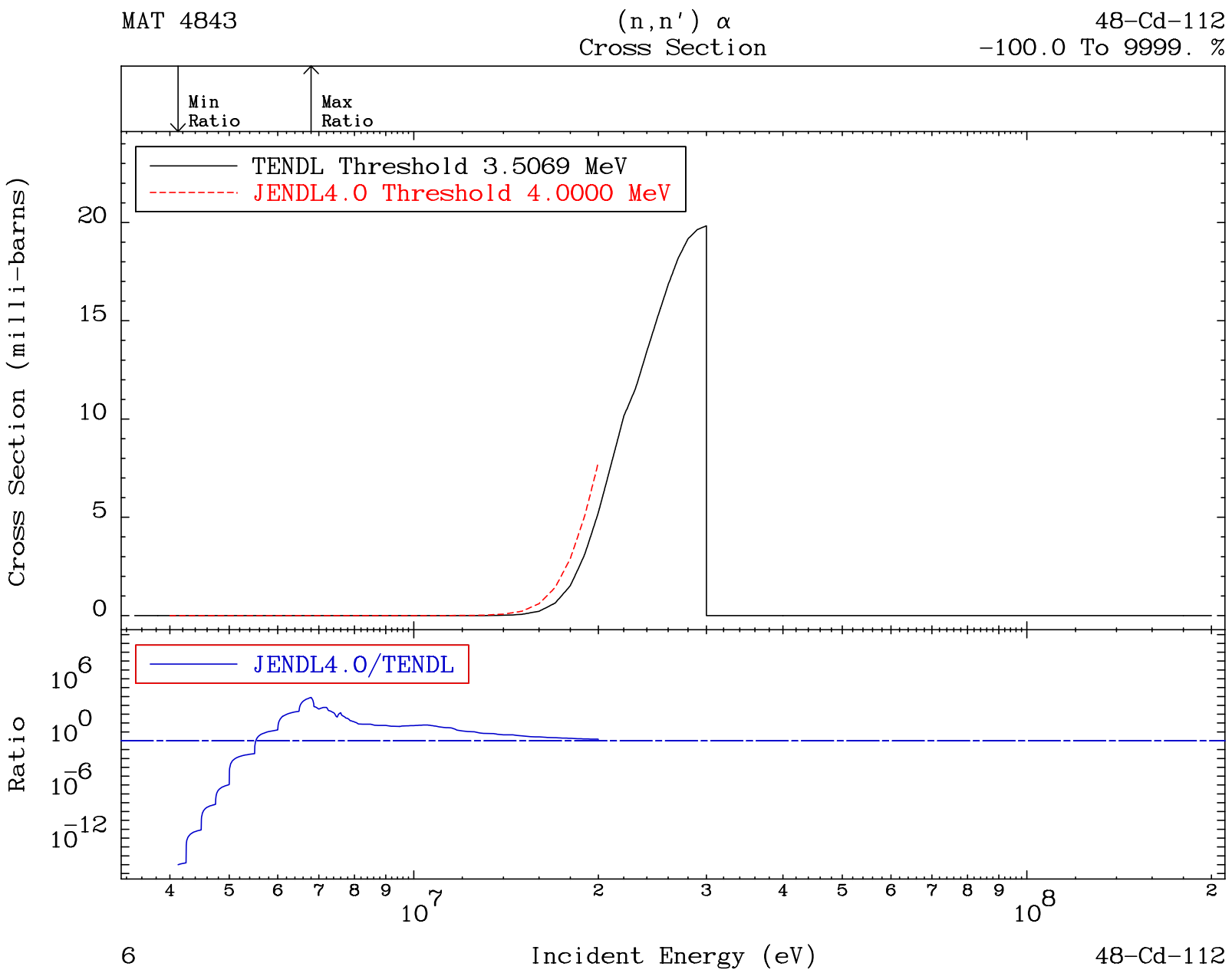

MAT 4843
Total
Cross Section
48-Cd-112
-94.85 To 3000. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
1
48-Cd-112

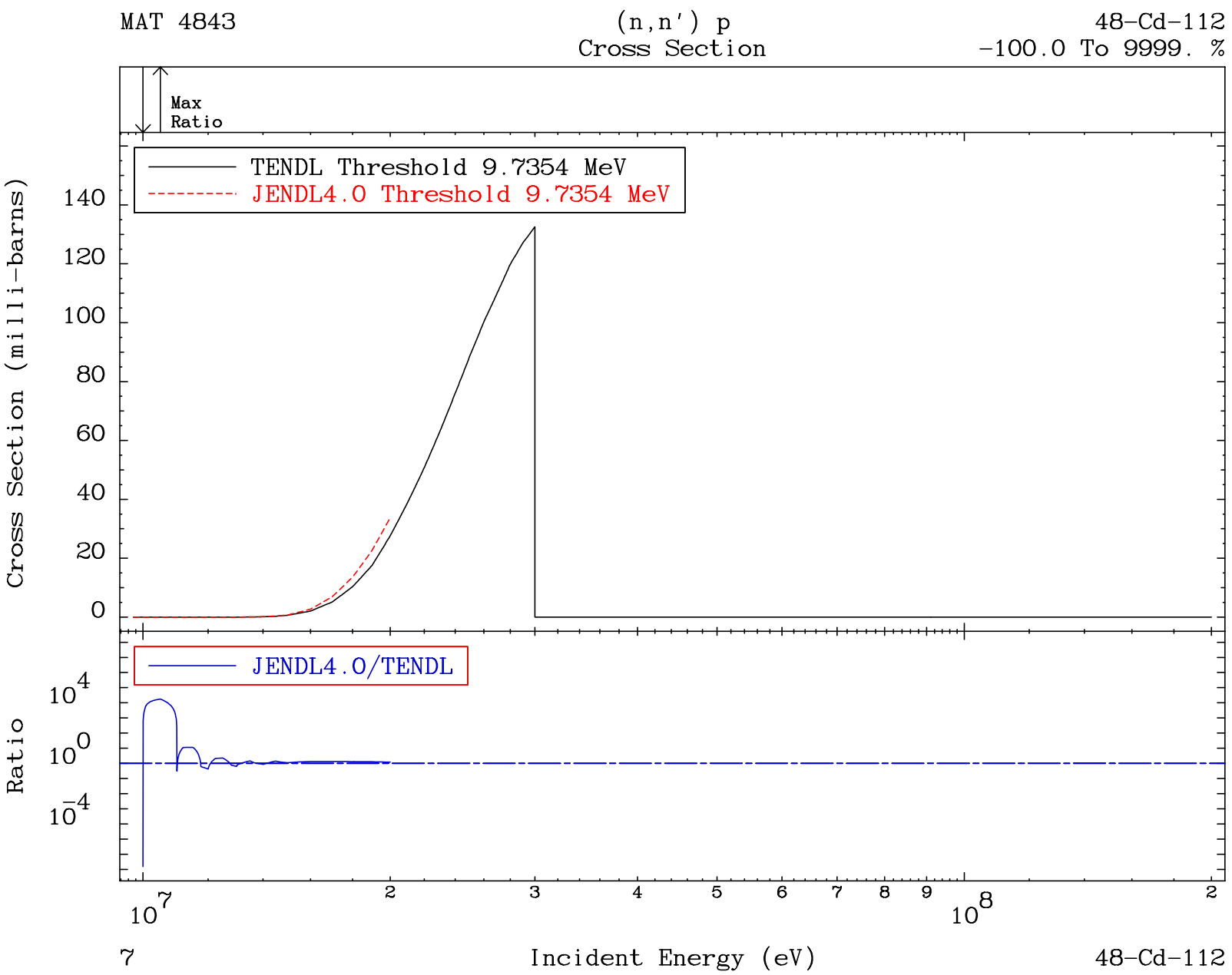

MAT 4843
Elastic
Cross Section
48-Cd-112
-94.97 To 4856. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
48-Cd-112

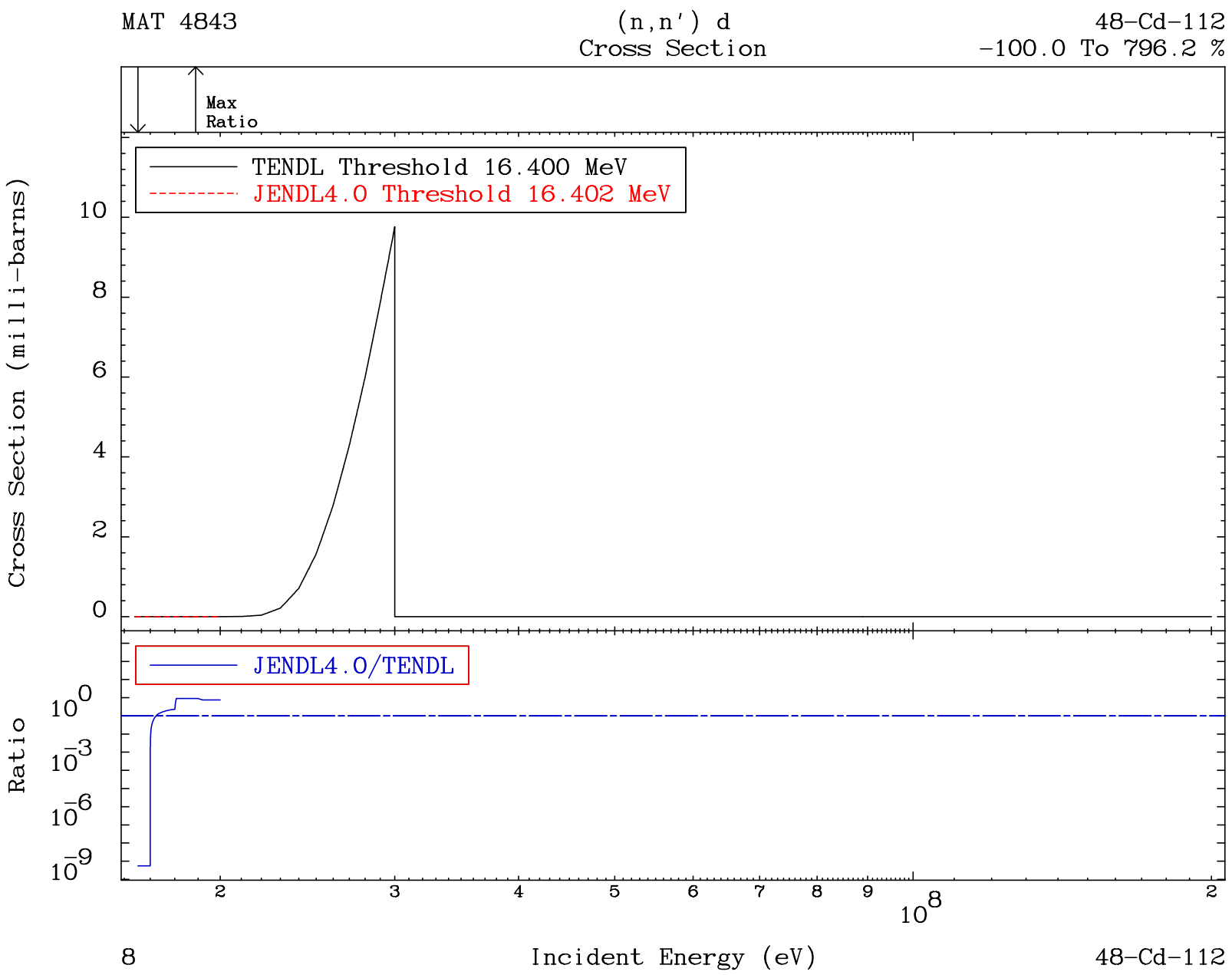

MAT 4843
Inelastic
Cross Section
48-Cd-112
-52.46 To 34.09 %
Max
Ratio
Min
Ratio
TENDL Threshold 623.09 keV
JENDL4.0 Threshold 623.09 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
6 7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
48-Cd-112

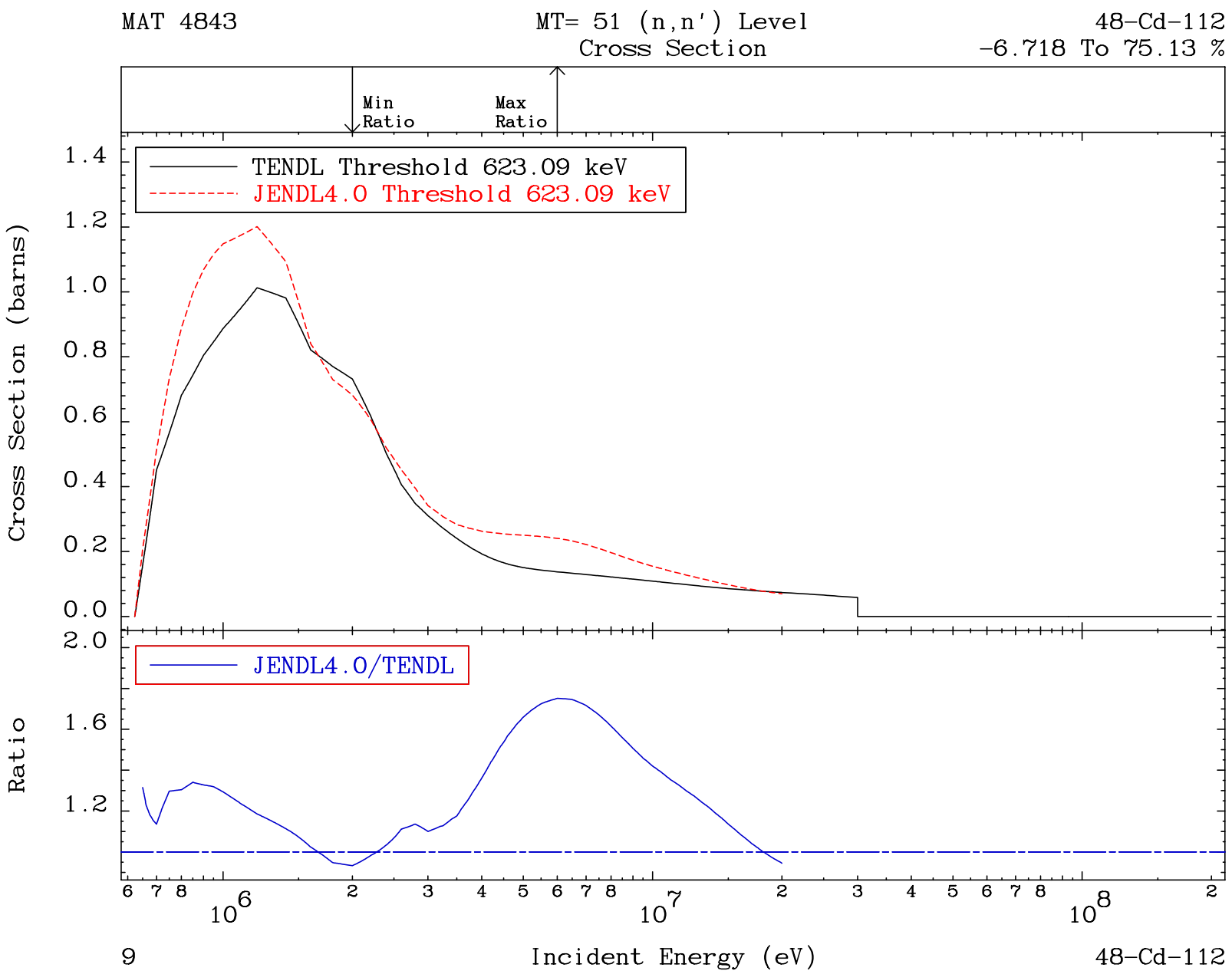

MAT 4843
(n,2n)
Cross Section
48-Cd-112
-0.081 To 48.61 %
Max
Ratio
TENDL Threshold 9.4786 MeV
JENDL4.0 Threshold 9.5000 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
1.6
1.4
1.2
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
48-Cd-112

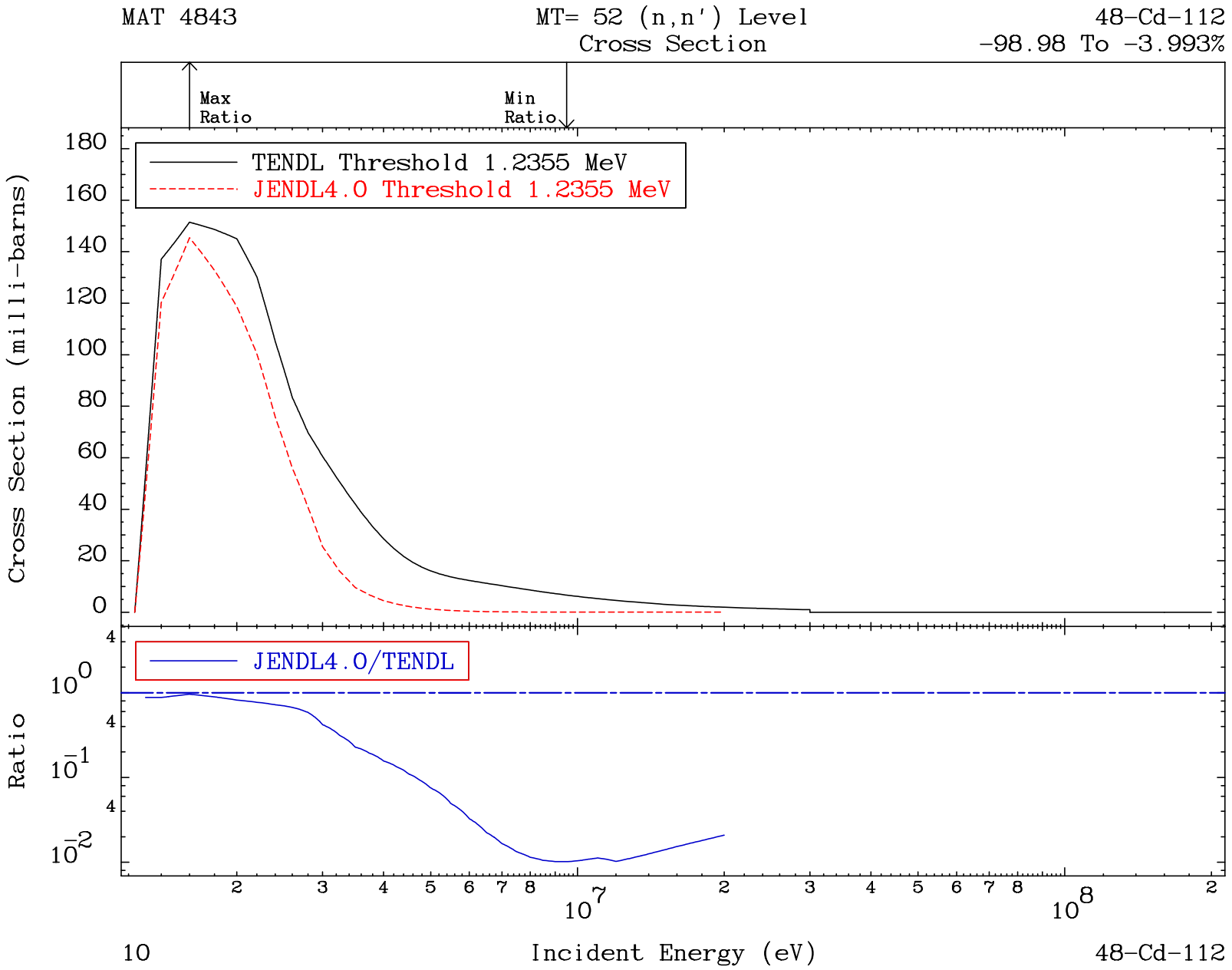

MAT 4843
(n,3n)
Cross Section
48-Cd-112
6.801 To 182.2 %
Max
Ratio
TENDL Threshold 16.517 MeV
JENDL4.0 Threshold 16.517 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
48-Cd-112

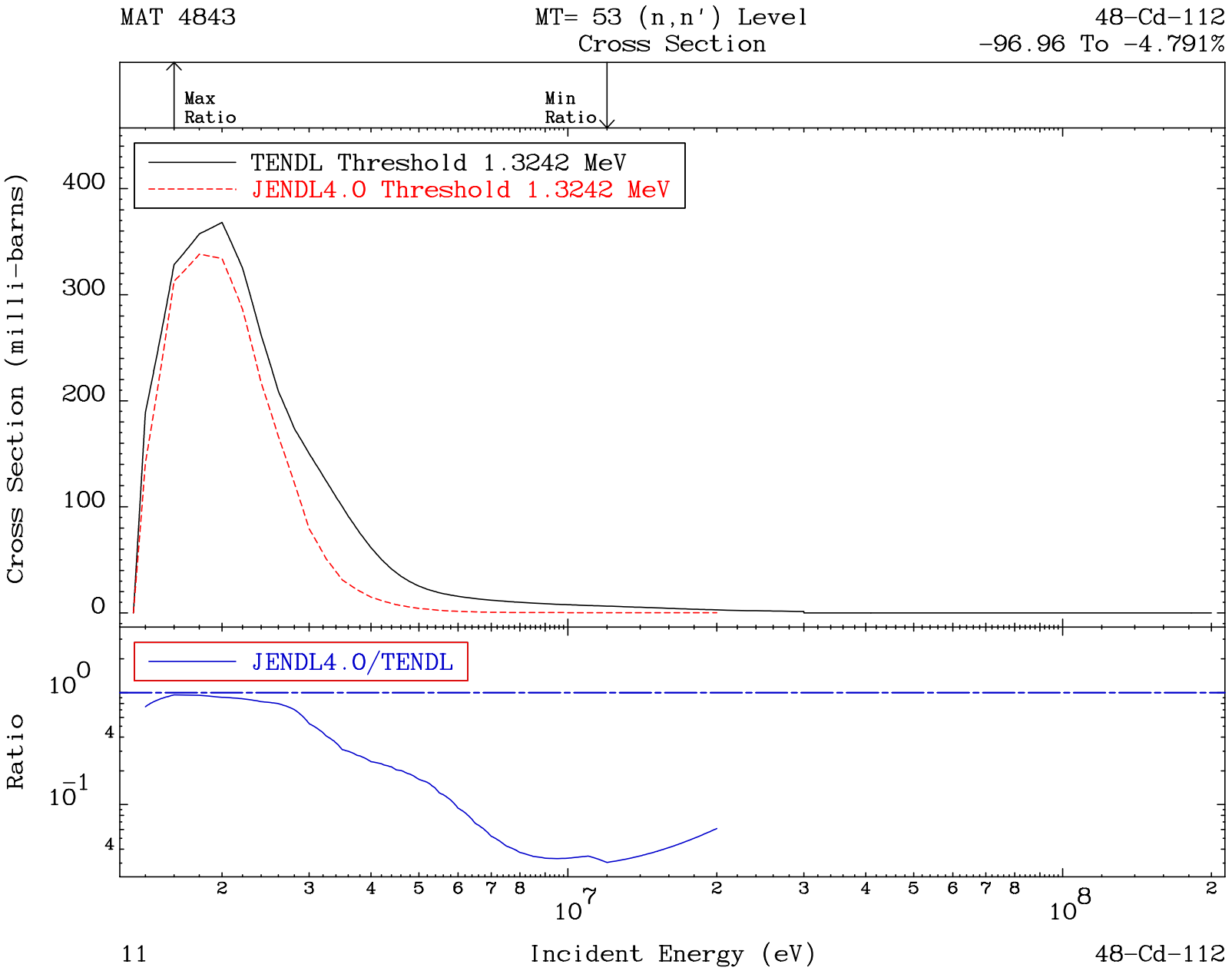

MAT 4843
(n,n') α
Cross Section
48-Cd-112
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.5069 MeV
JENDL4.0 Threshold 4.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^6
10^0
10^-6
10^-12
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
48-Cd-112

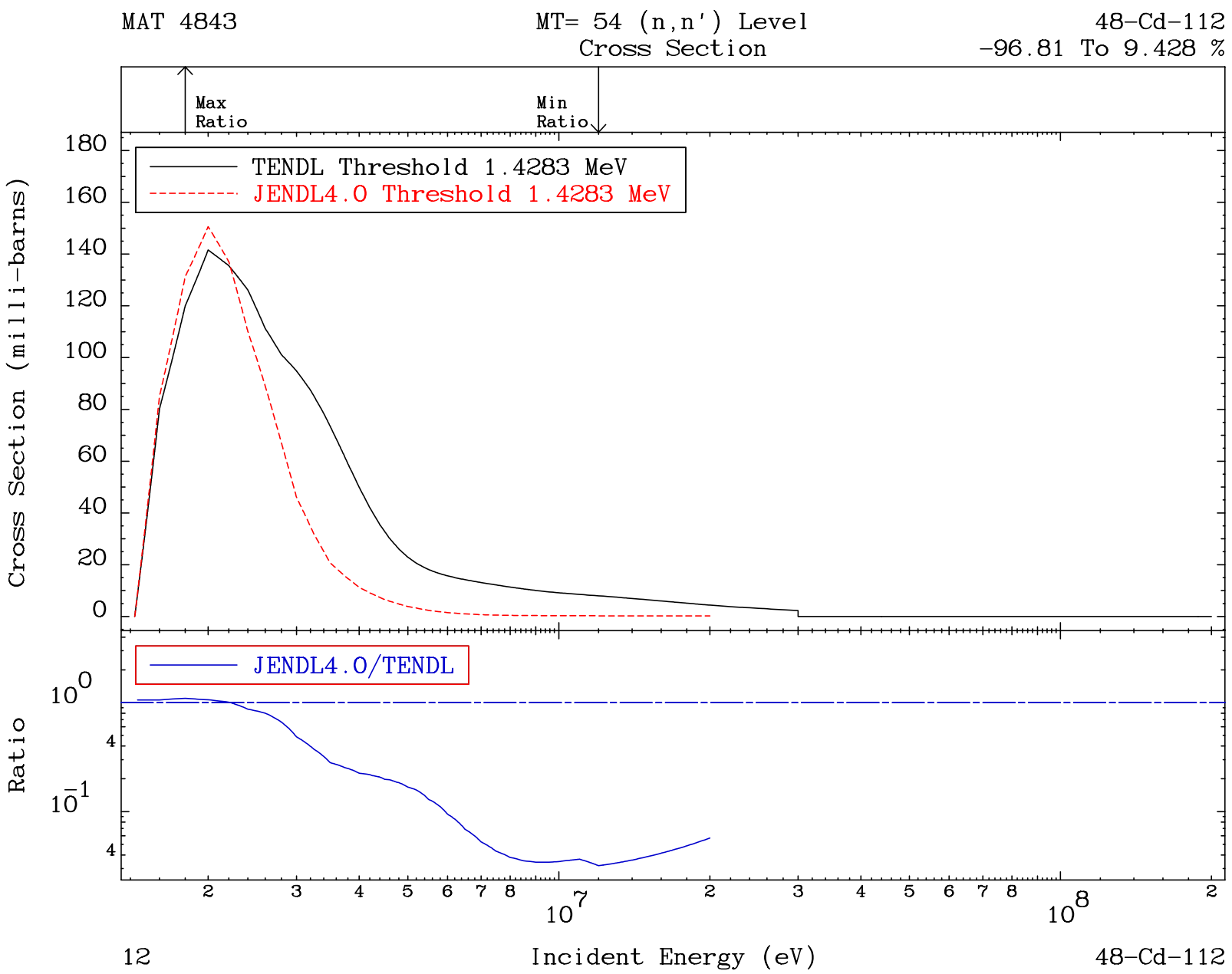

MAT 4843
(n,n') p
Cross Section
48-Cd-112
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 9.7354 MeV
JENDL4.0 Threshold 9.7354 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^4
10^0
10^-4
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
48-Cd-112

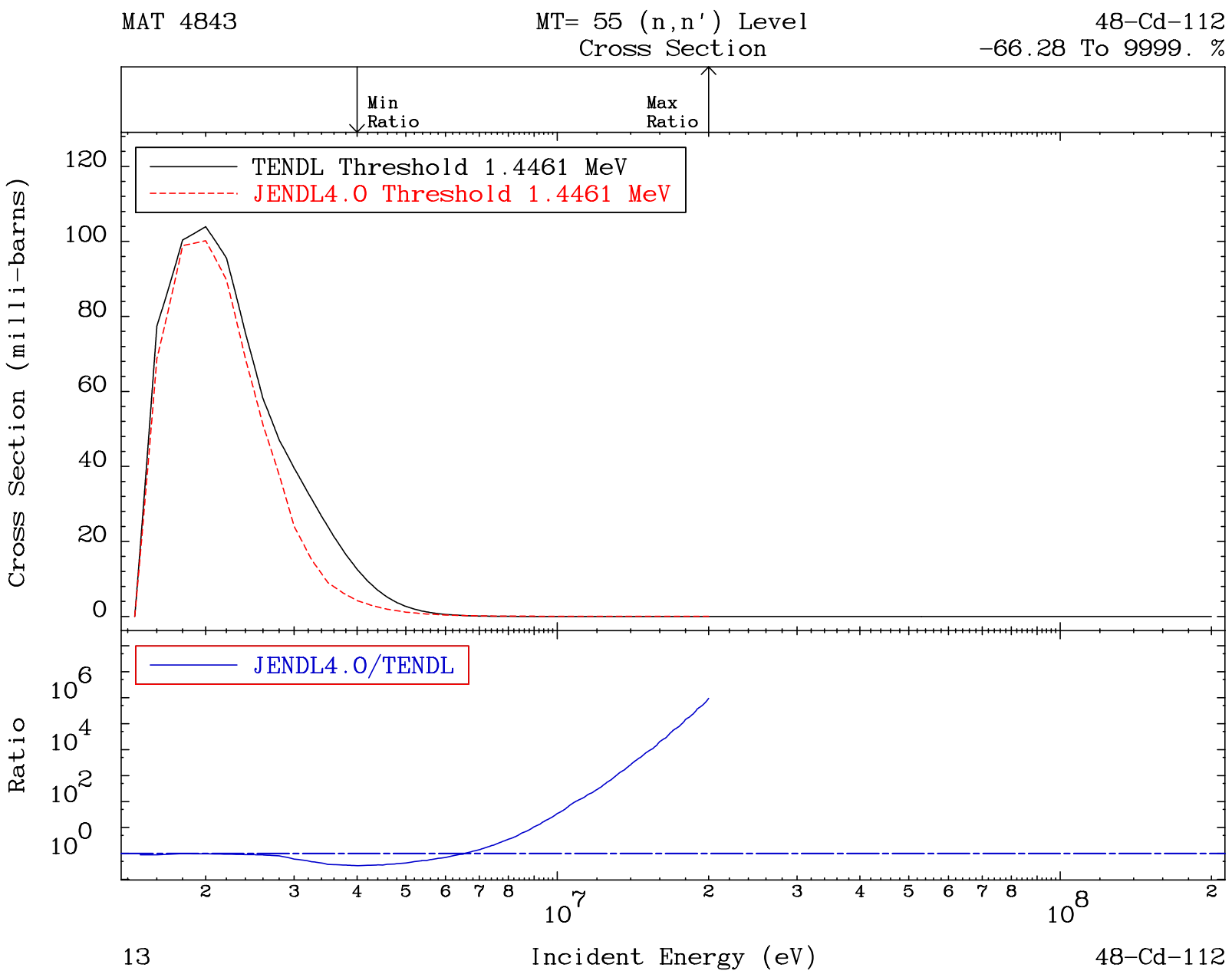

MAT 4843
(n,n') d
Cross Section
48-Cd-112
-100.0 To 796.2 %
Max
Ratio
TENDL Threshold 16.400 MeV
JENDL4.0 Threshold 16.402 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
8
48-Cd-112

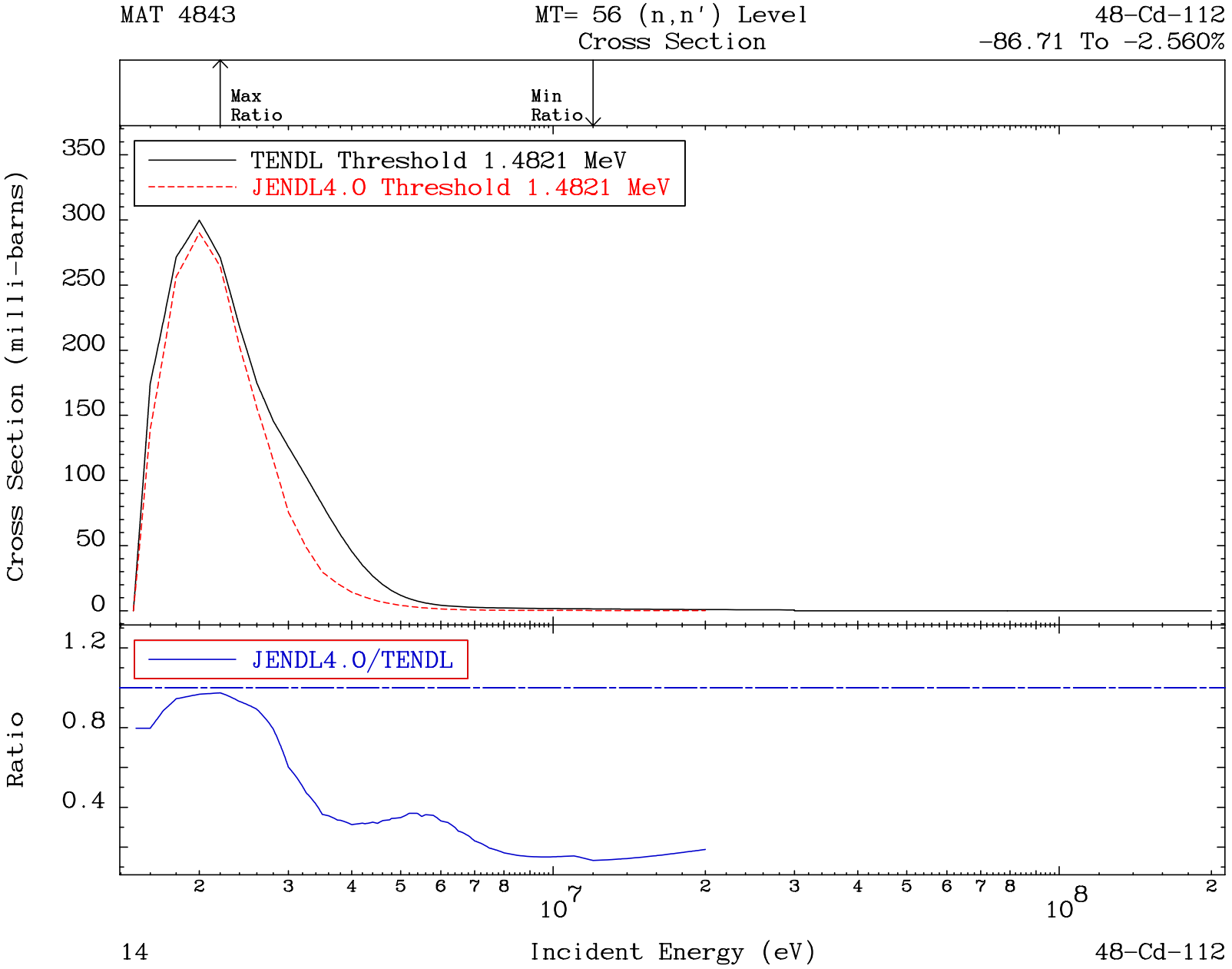

MAT 4843
MT= 51 (n,n') Level
Cross Section
48-Cd-112
-6.718 To 75.13 %
Min
Ratio
Max
Ratio
TENDL Threshold 623.09 keV
JENDL4.0 Threshold 623.09 keV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
2.0
1.6
1.2
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
48-Cd-112

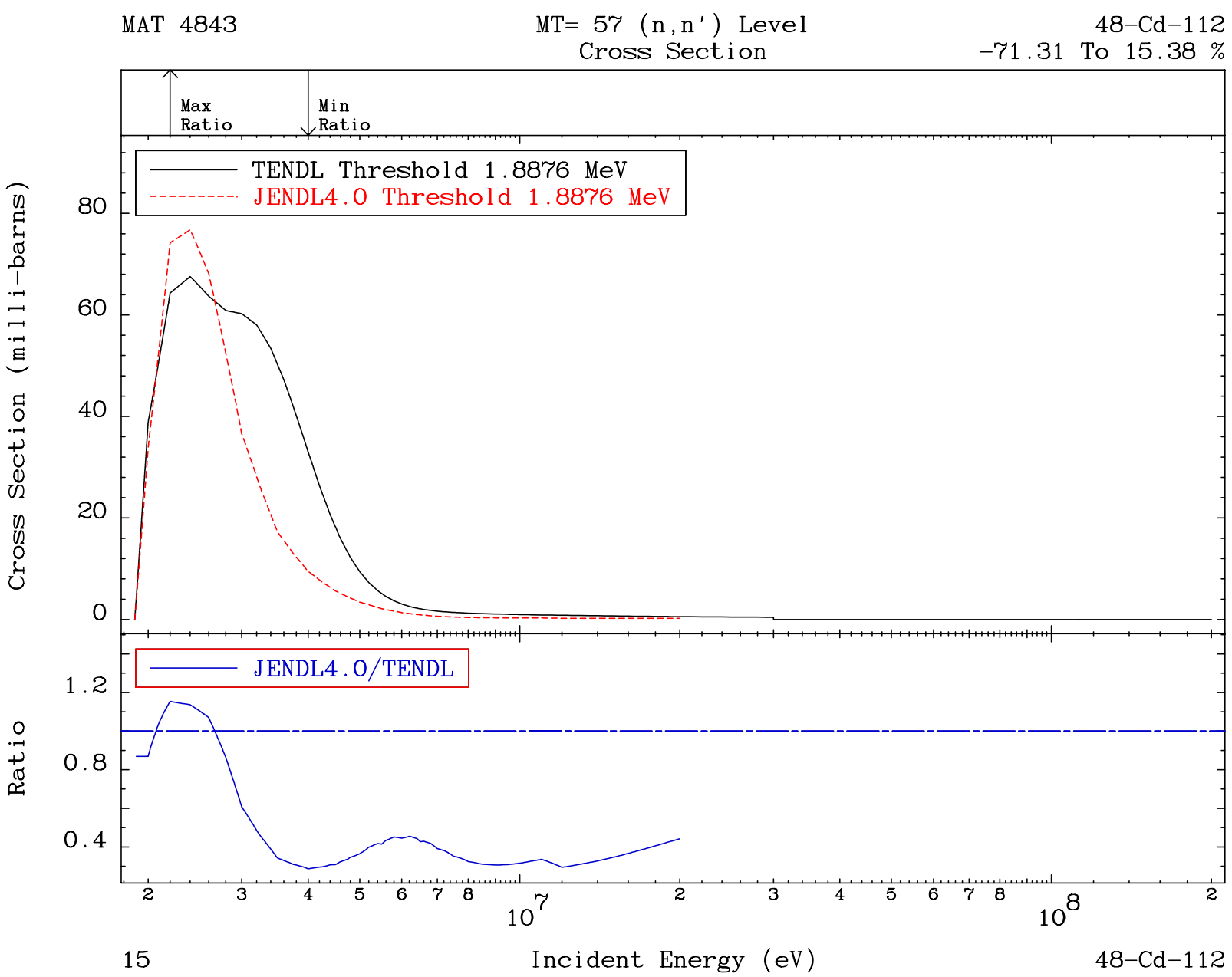

MAT 4843
MT= 52 (n,n') Level
Cross Section
48-Cd-112
-98.98 To -3.993%
Max Ratio
Min Ratio
TENDL Threshold 1.2355 MeV
JENDL4.0 Threshold 1.2355 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
10
48-Cd-112

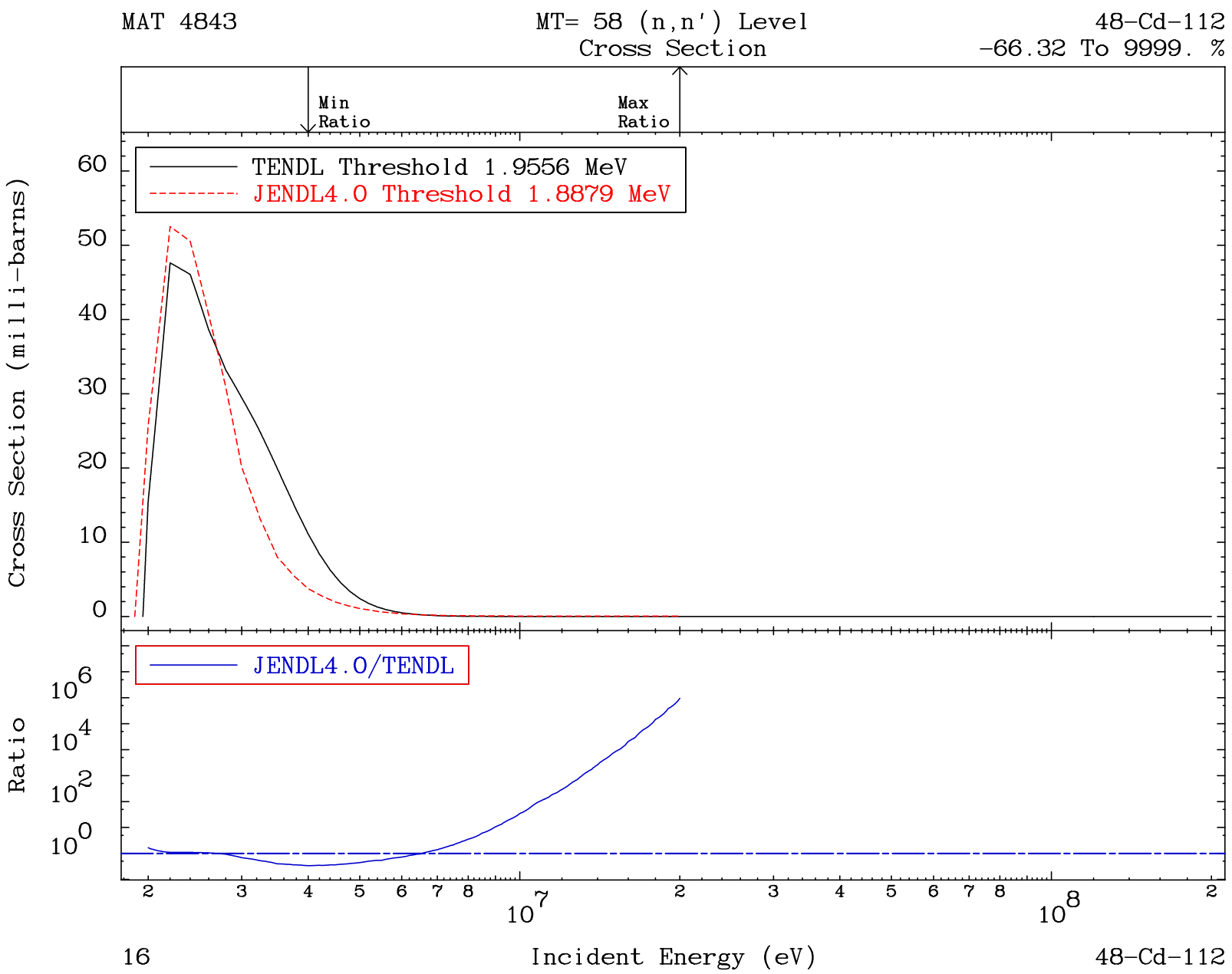

MAT 4843
MT= 53 (n,n') Level
Cross Section
48-Cd-112
-96.96 To -4.791%
Max Ratio
Min Ratio
TENDL Threshold 1.3242 MeV
JENDL4.0 Threshold 1.3242 MeV
Cross Section (milli-barns)
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^0
4
10^-1
4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
48-Cd-112

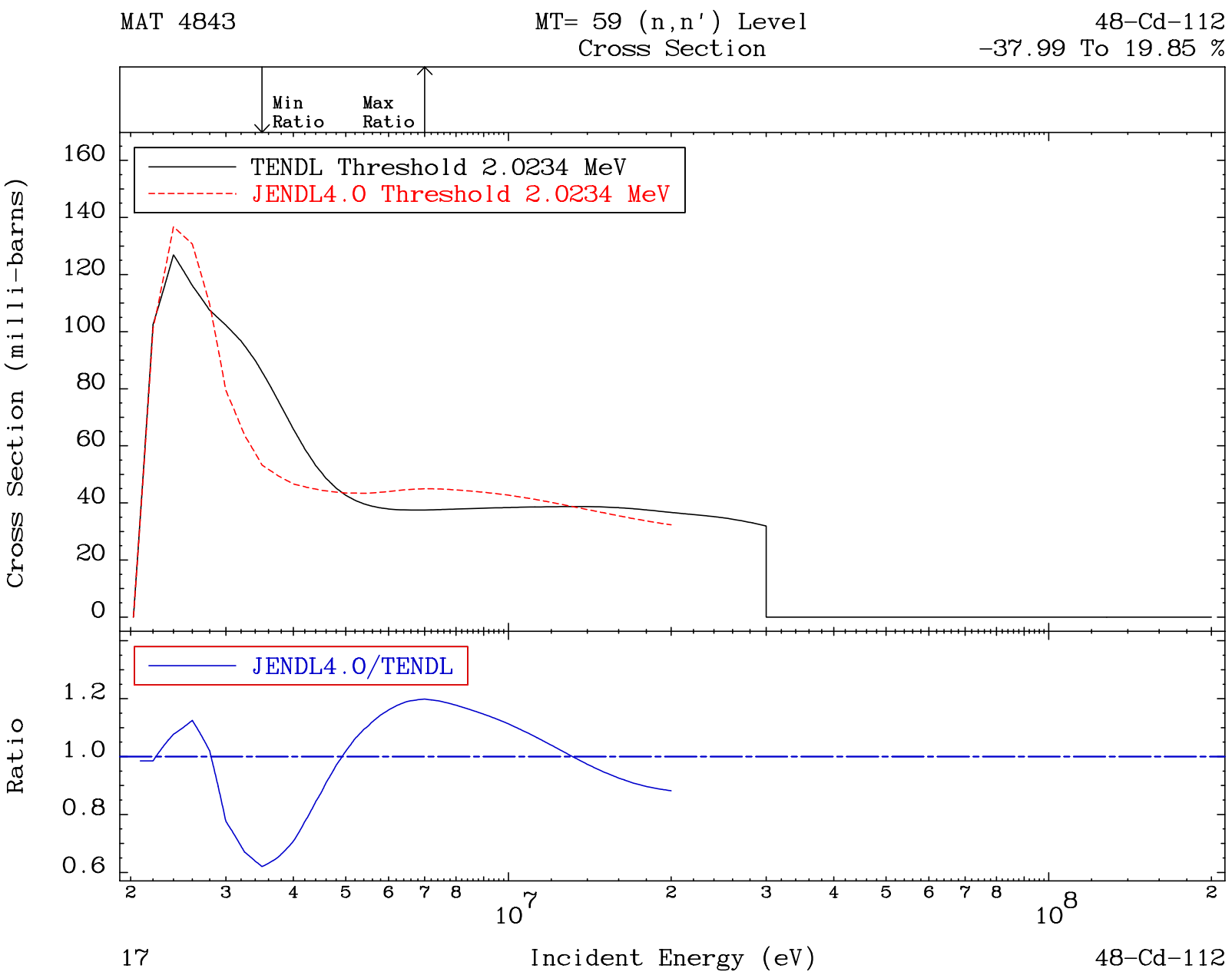

MAT 4843
MT= 54 (n,n') Level
Cross Section
48-Cd-112
-96.81 To 9.428 %
Max Ratio
Min Ratio
TENDL Threshold 1.4283 MeV
JENDL4.0 Threshold 1.4283 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
4
10^-1
4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
48-Cd-112

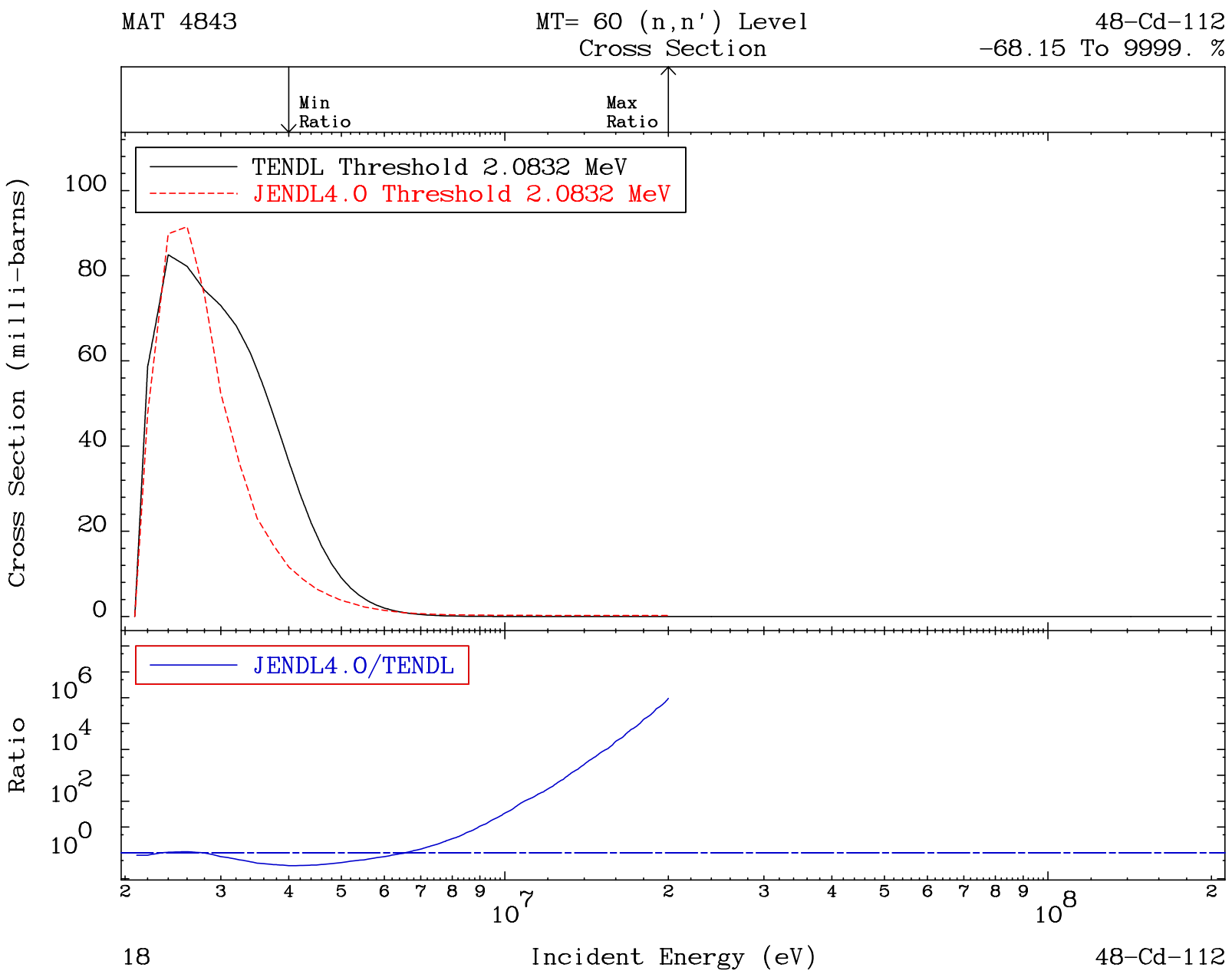

MAT 4843
MT= 55 (n,n') Level
Cross Section
48-Cd-112
-66.28 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.4461 MeV
JENDL4.0 Threshold 1.4461 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
48-Cd-112

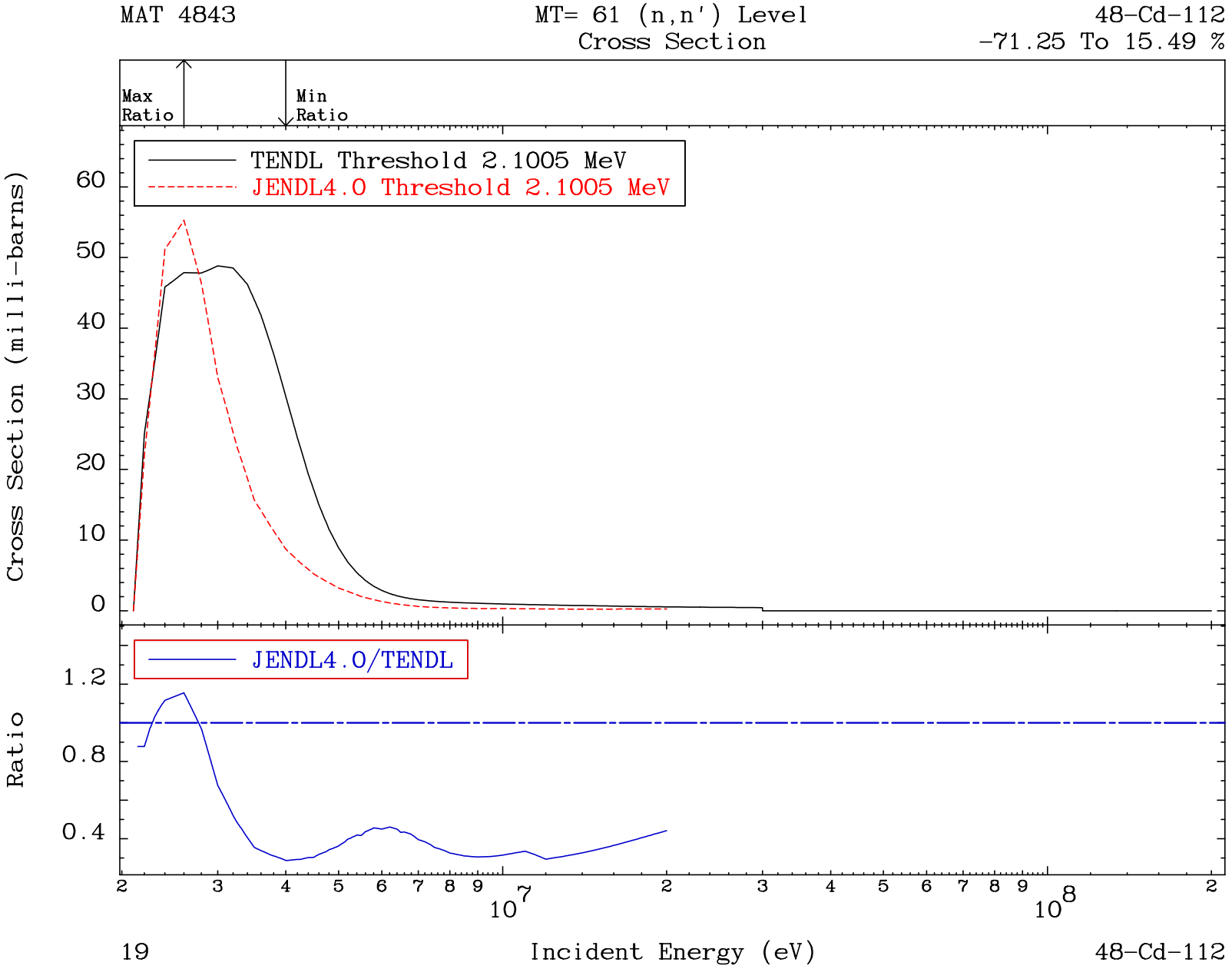

MAT 4843
MT= 56 (n,n') Level
Cross Section
48-Cd-112
-86.71 To -2.560%
Max
Ratio
Min
Ratio
TENDL Threshold 1.4821 MeV
JENDL4.0 Threshold 1.4821 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
48-Cd-112

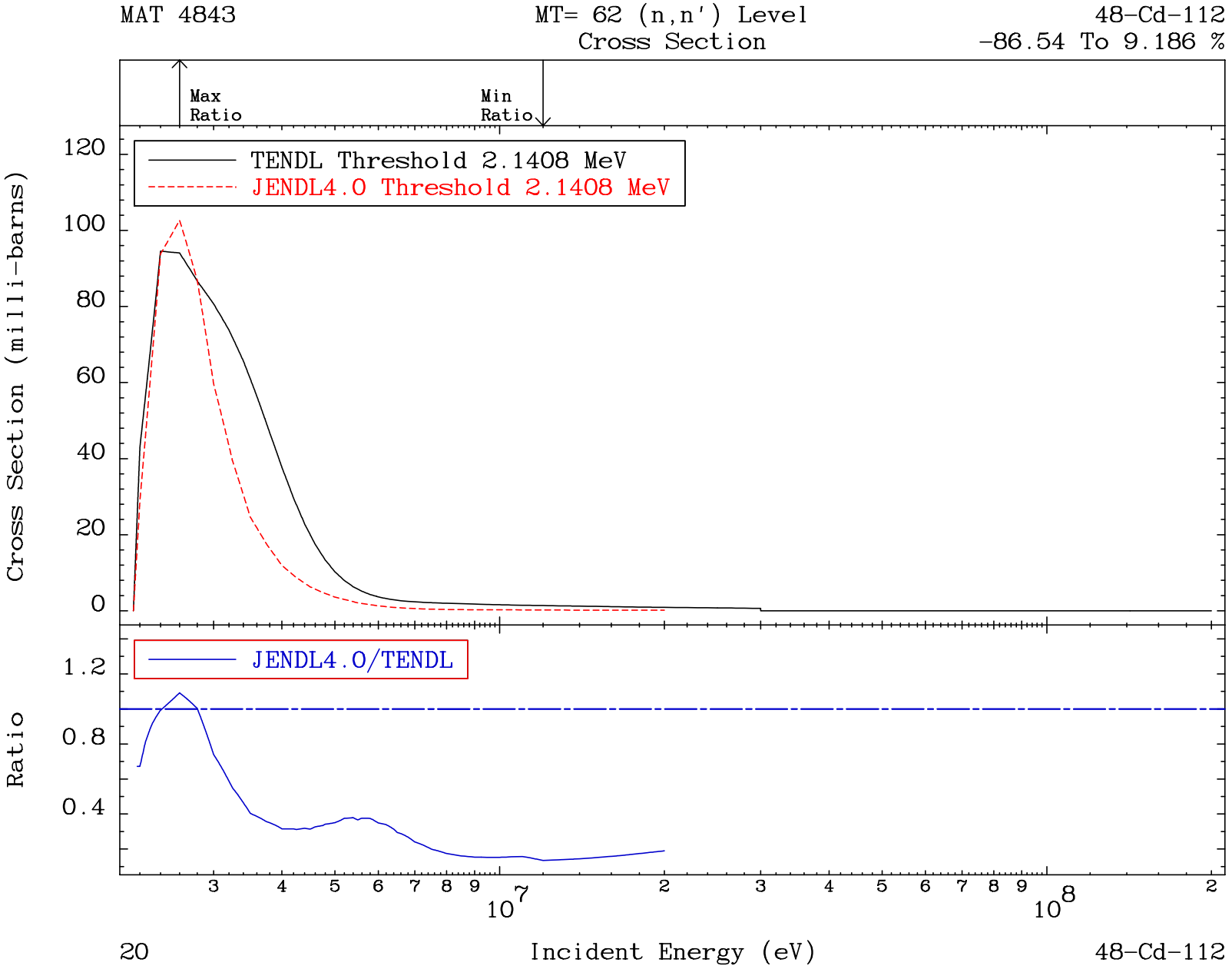

MAT 4843
MT= 57 (n,n') Level
Cross Section
48-Cd-112
-71.31 To 15.38 %
Max Ratio
Min Ratio
TENDL Threshold 1.8876 MeV
JENDL4.0 Threshold 1.8876 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
48-Cd-112

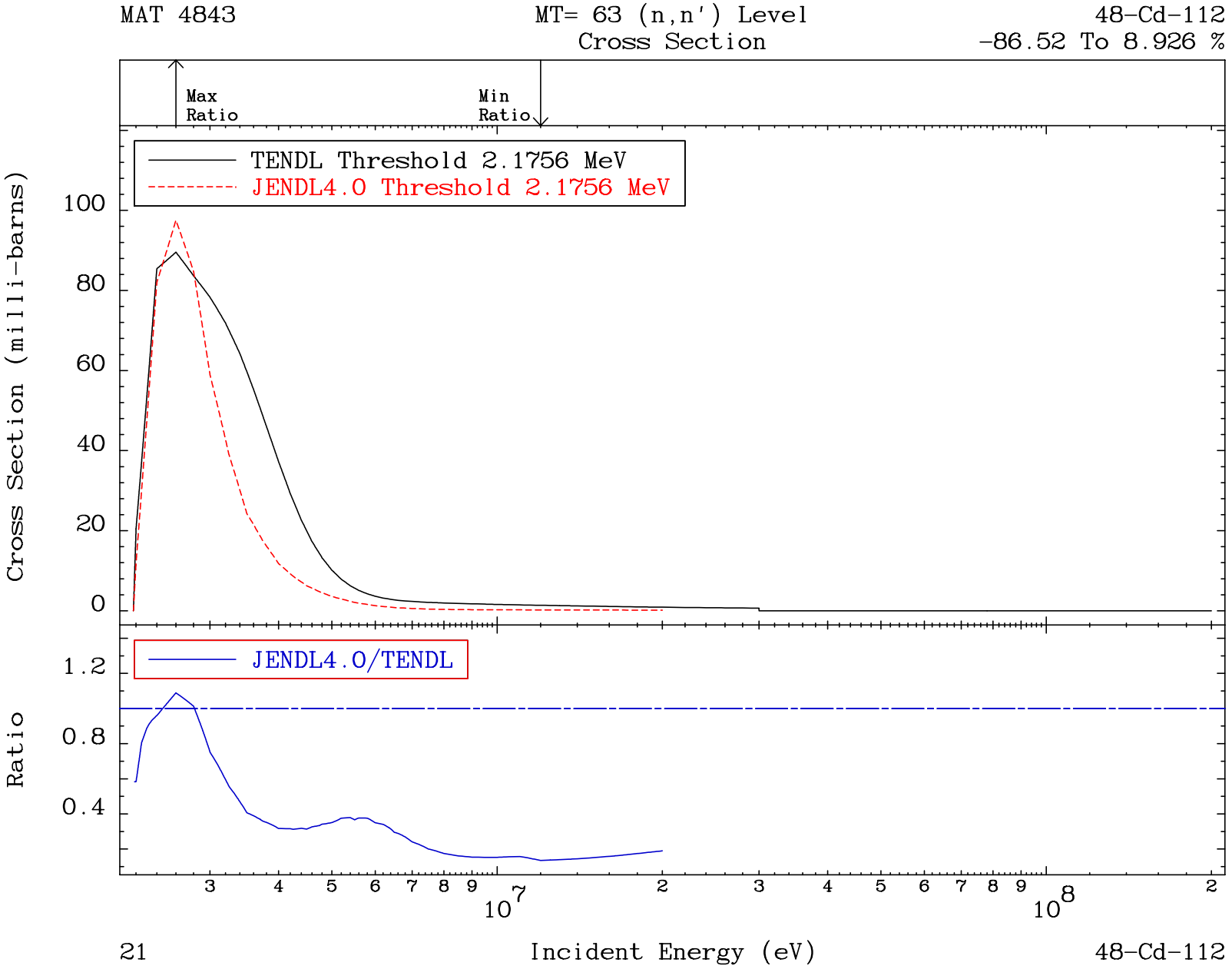

MAT 4843
MT= 58 (n,n') Level
Cross Section
48-Cd-112
-66.32 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.9556 MeV
JENDL4.0 Threshold 1.8879 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
48-Cd-112

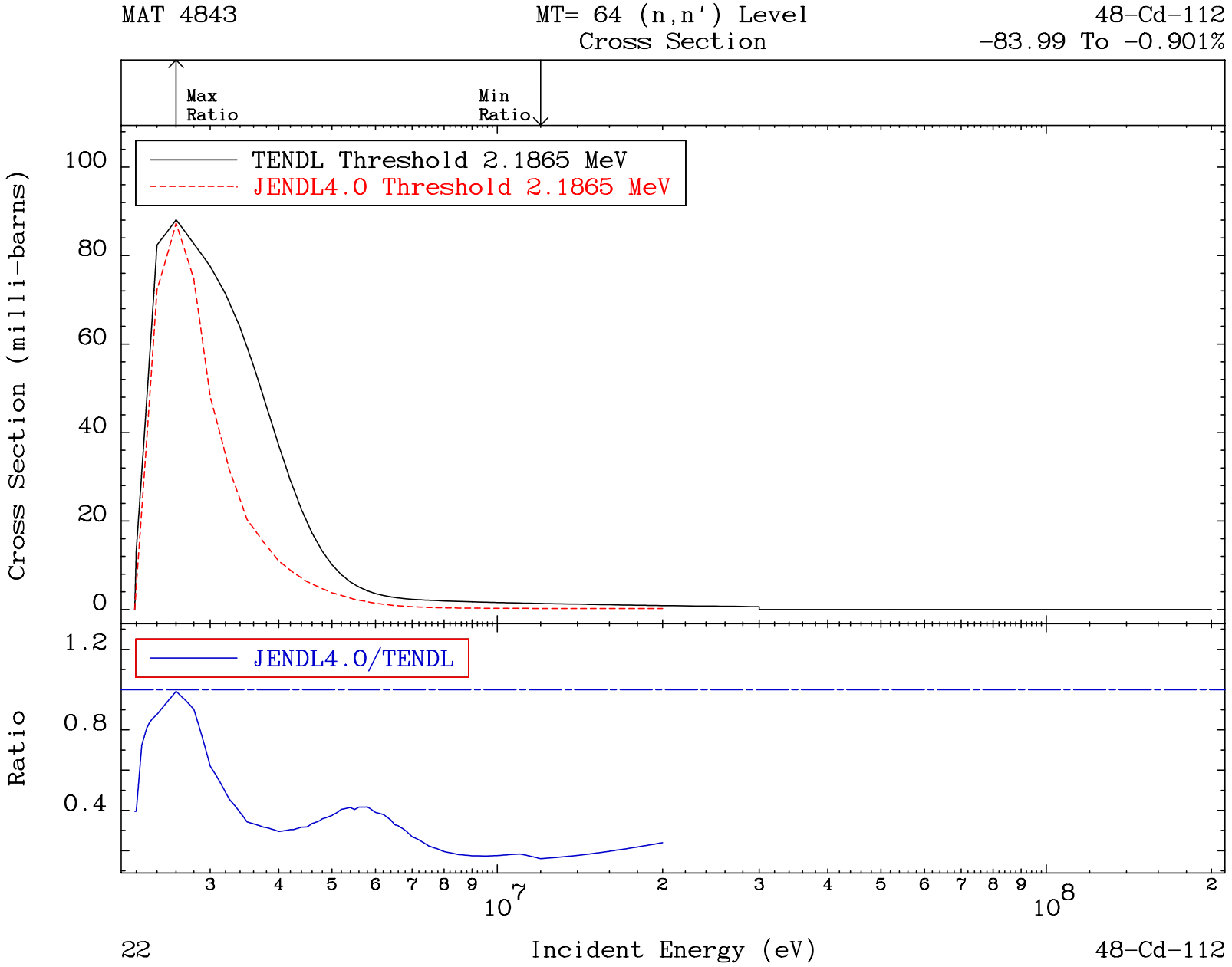

MAT 4843
MT= 59 (n,n') Level
Cross Section
48-Cd-112
-37.99 To 19.85 %
Min Ratio
Max Ratio
TENDL Threshold 2.0234 MeV
JENDL4.0 Threshold 2.0234 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.2
1.0
0.8
0.6
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
48-Cd-112

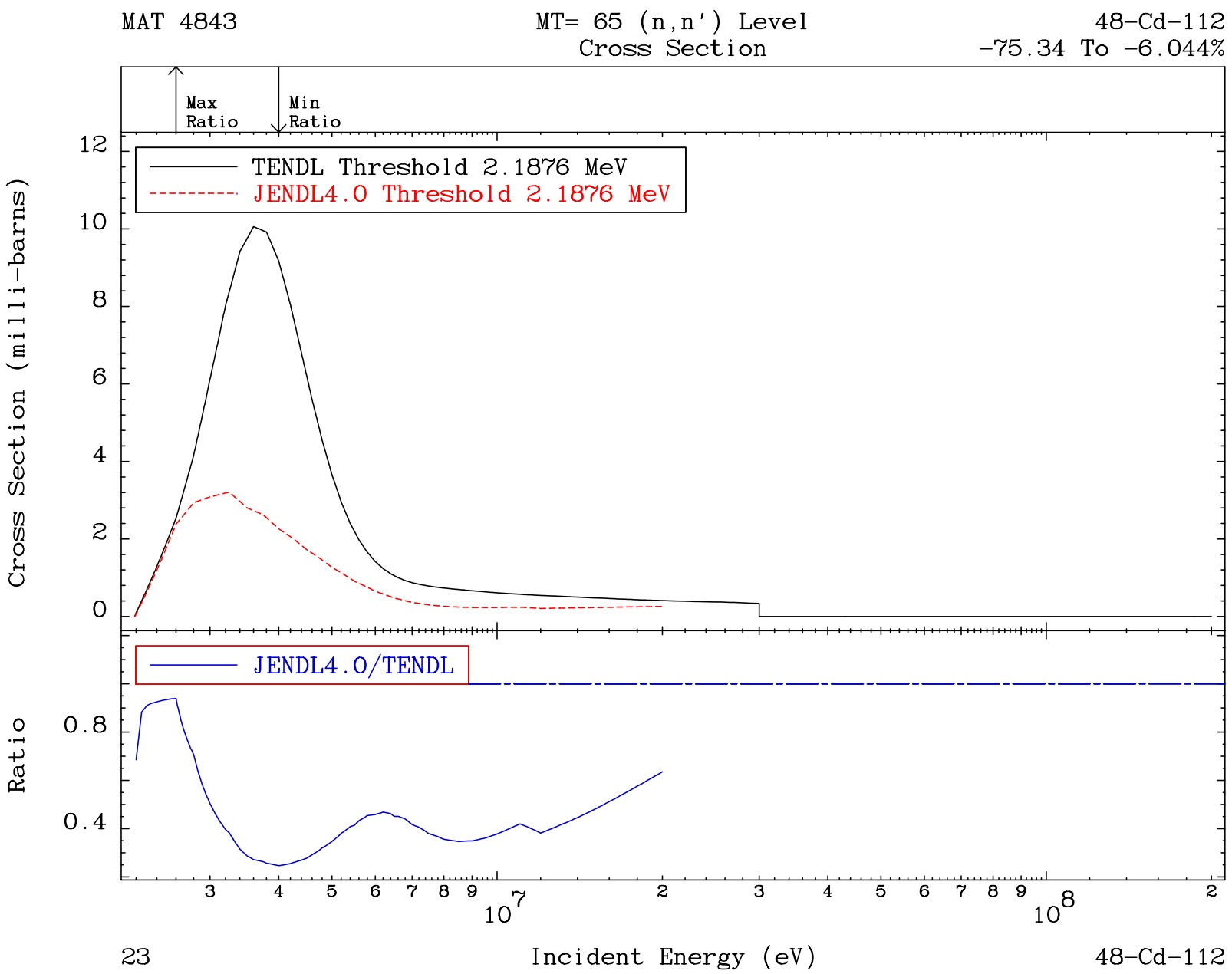

MAT 4843
MT= 60 (n,n') Level
Cross Section
48-Cd-112
-68.15 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.0832 MeV
JENDL4.0 Threshold 2.0832 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
48-Cd-112

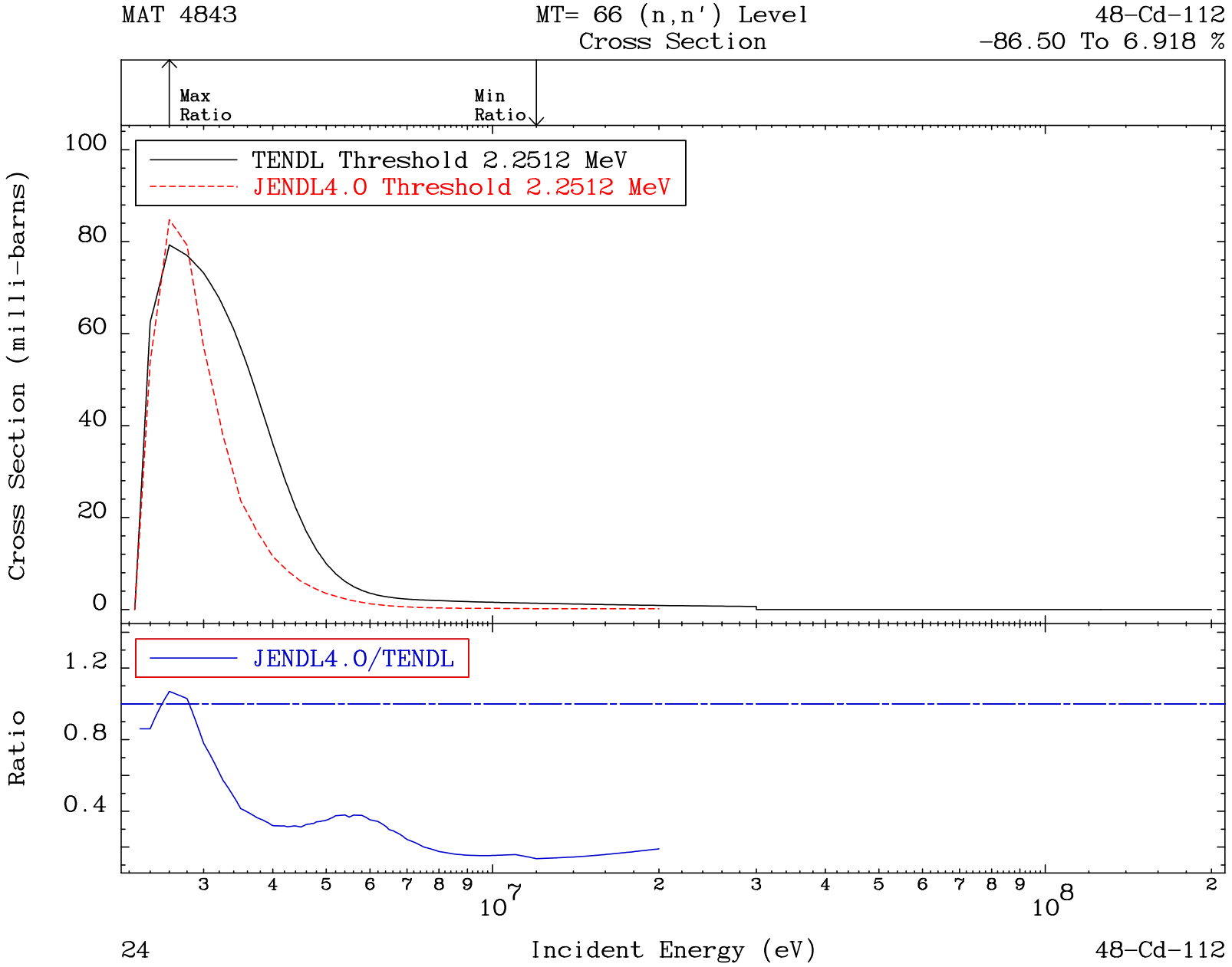

MAT 4843
MT= 61 (n,n') Level
Cross Section
48-Cd-112
-71.25 To 15.49 %
Max Ratio
Min Ratio
TENDL Threshold 2.1005 MeV
JENDL4.0 Threshold 2.1005 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
48-Cd-112

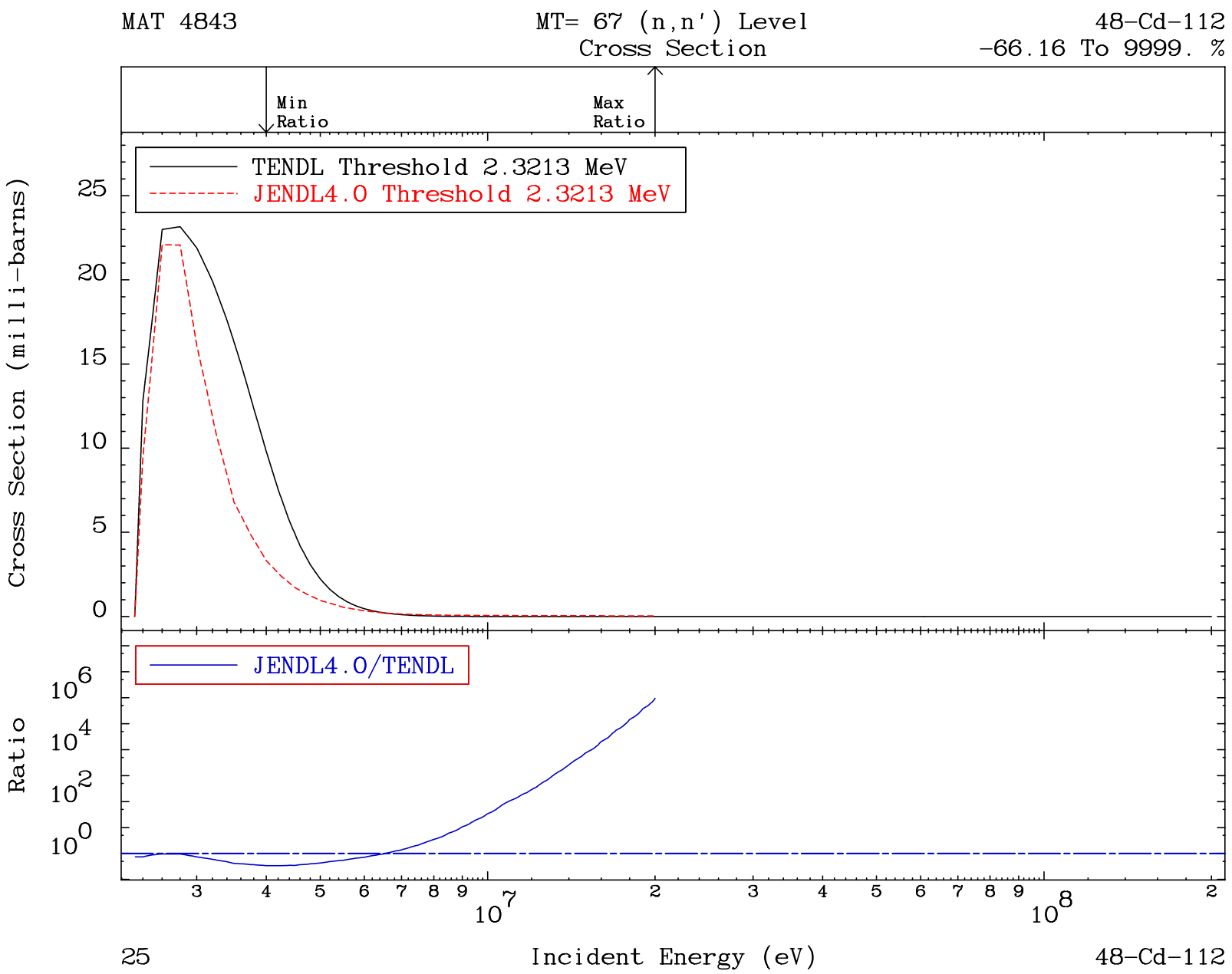

MAT 4843
MT= 62 (n,n') Level
Cross Section
48-Cd-112
-86.54 To 9.186 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.1408 MeV
JENDL4.0 Threshold 2.1408 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
20
Incident Energy (eV)
48-Cd-112

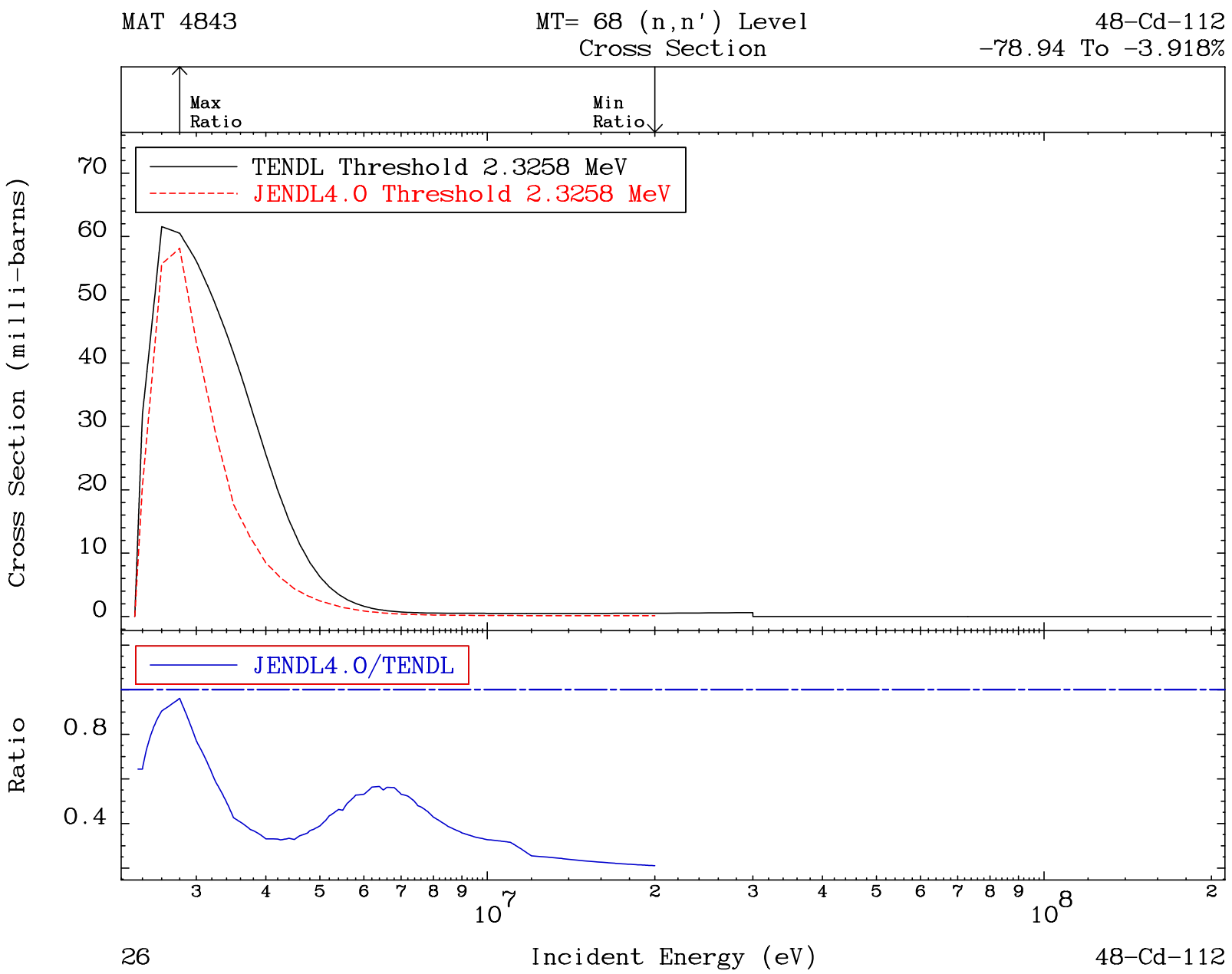

MAT 4843
MT= 63 (n,n') Level
Cross Section
48-Cd-112
-86.52 To 8.926 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.1756 MeV
JENDL4.0 Threshold 2.1756 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
21
Incident Energy (eV)
48-Cd-112

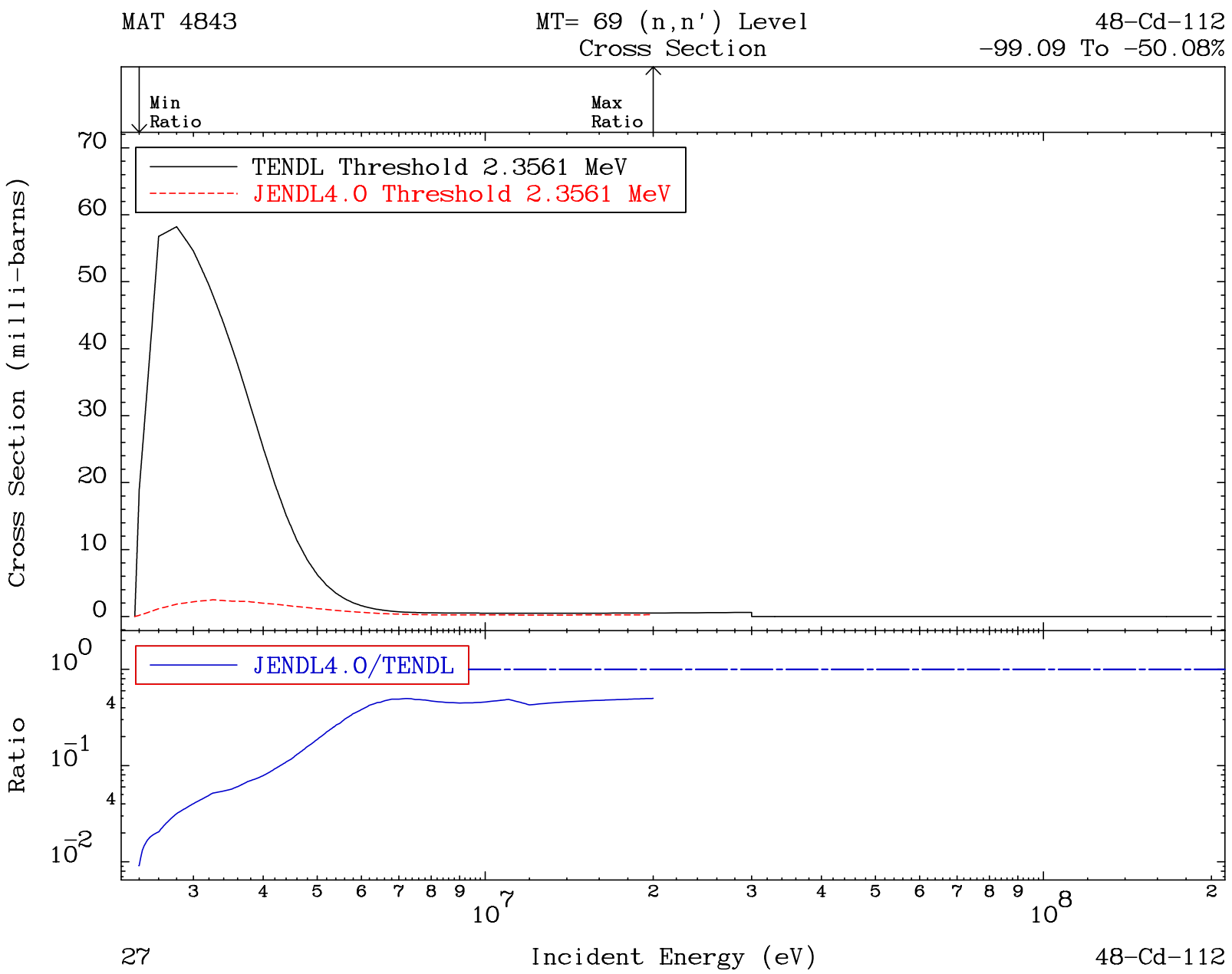

MAT 4843
MT= 64 (n,n') Level
Cross Section
48-Cd-112
-83.99 To -0.901%
Max Ratio
Min Ratio
TENDL Threshold 2.1865 MeV
JENDL4.0 Threshold 2.1865 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
48-Cd-112

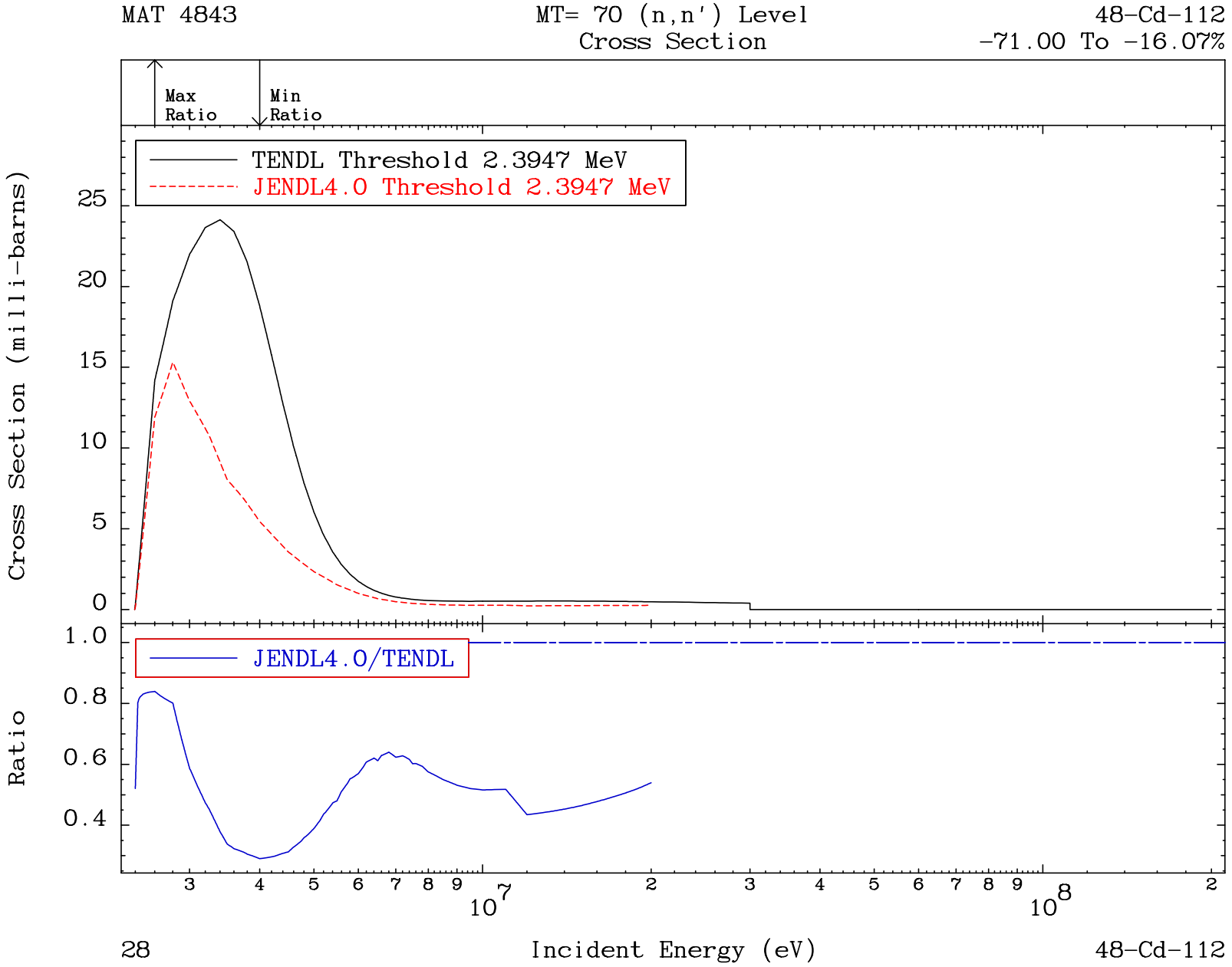

MAT 4843
MT= 65 (n,n') Level
Cross Section
48-Cd-112
-75.34 To -6.044%
Max Ratio
Min Ratio
TENDL Threshold 2.1876 MeV
JENDL4.0 Threshold 2.1876 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
23
48-Cd-112

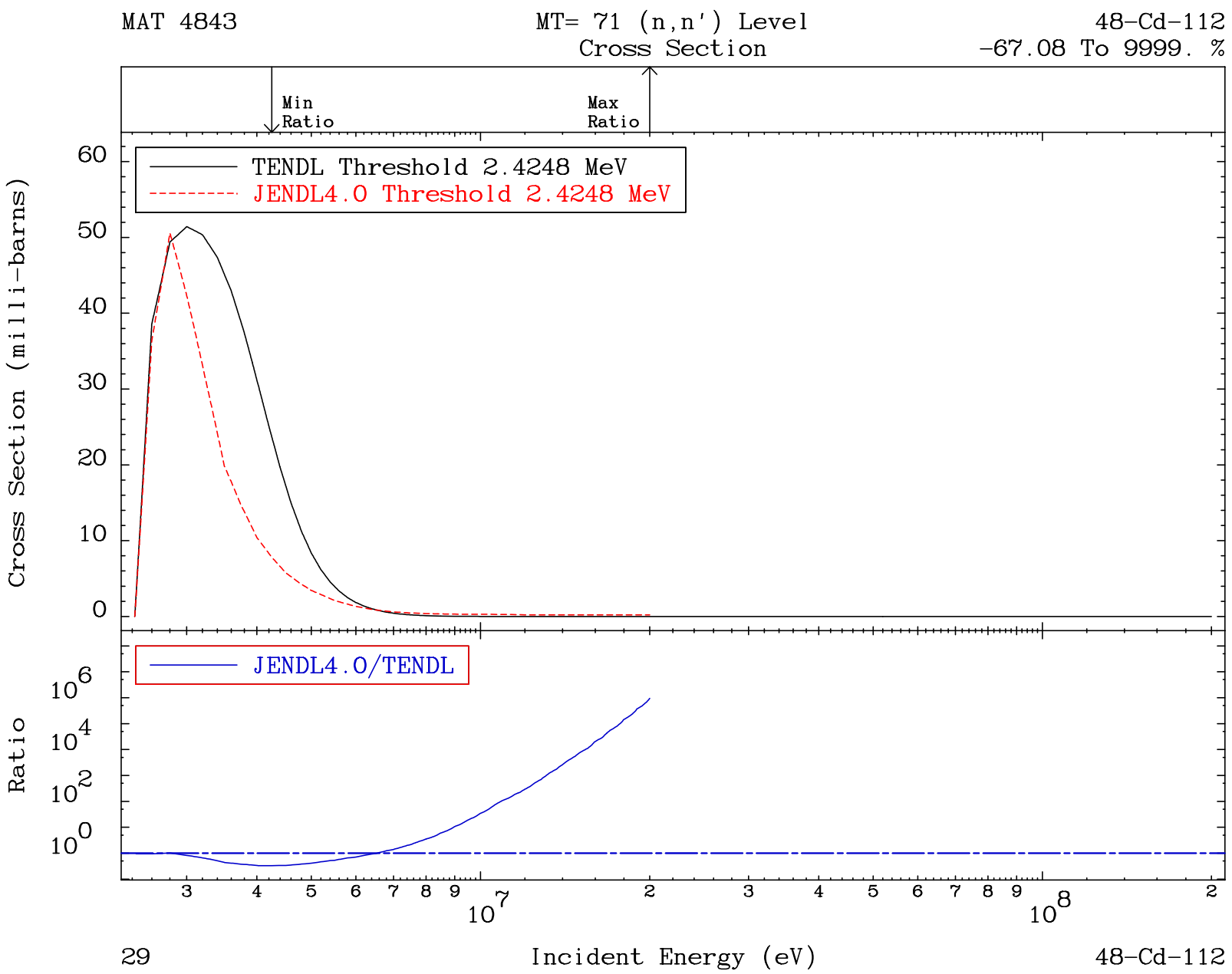

MAT 4843
MT= 66 (n,n') Level
Cross Section
48-Cd-112
-86.50 To 6.918 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.2512 MeV
JENDL4.0 Threshold 2.2512 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
24
Incident Energy (eV)
48-Cd-112

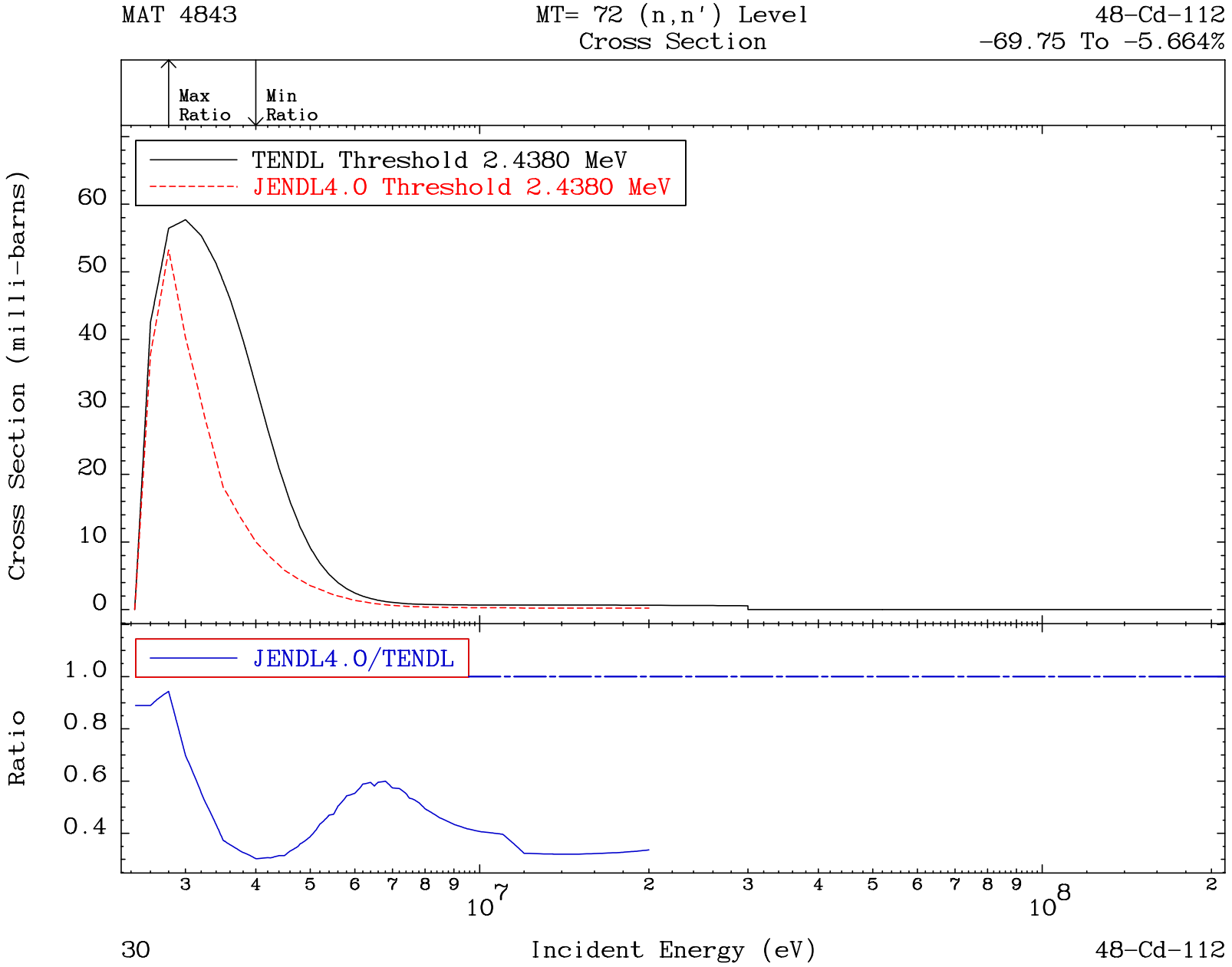

MAT 4843
MT= 67 (n,n') Level
Cross Section
48-Cd-112
-66.16 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.3213 MeV
JENDL4.0 Threshold 2.3213 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
25
Incident Energy (eV)
48-Cd-112

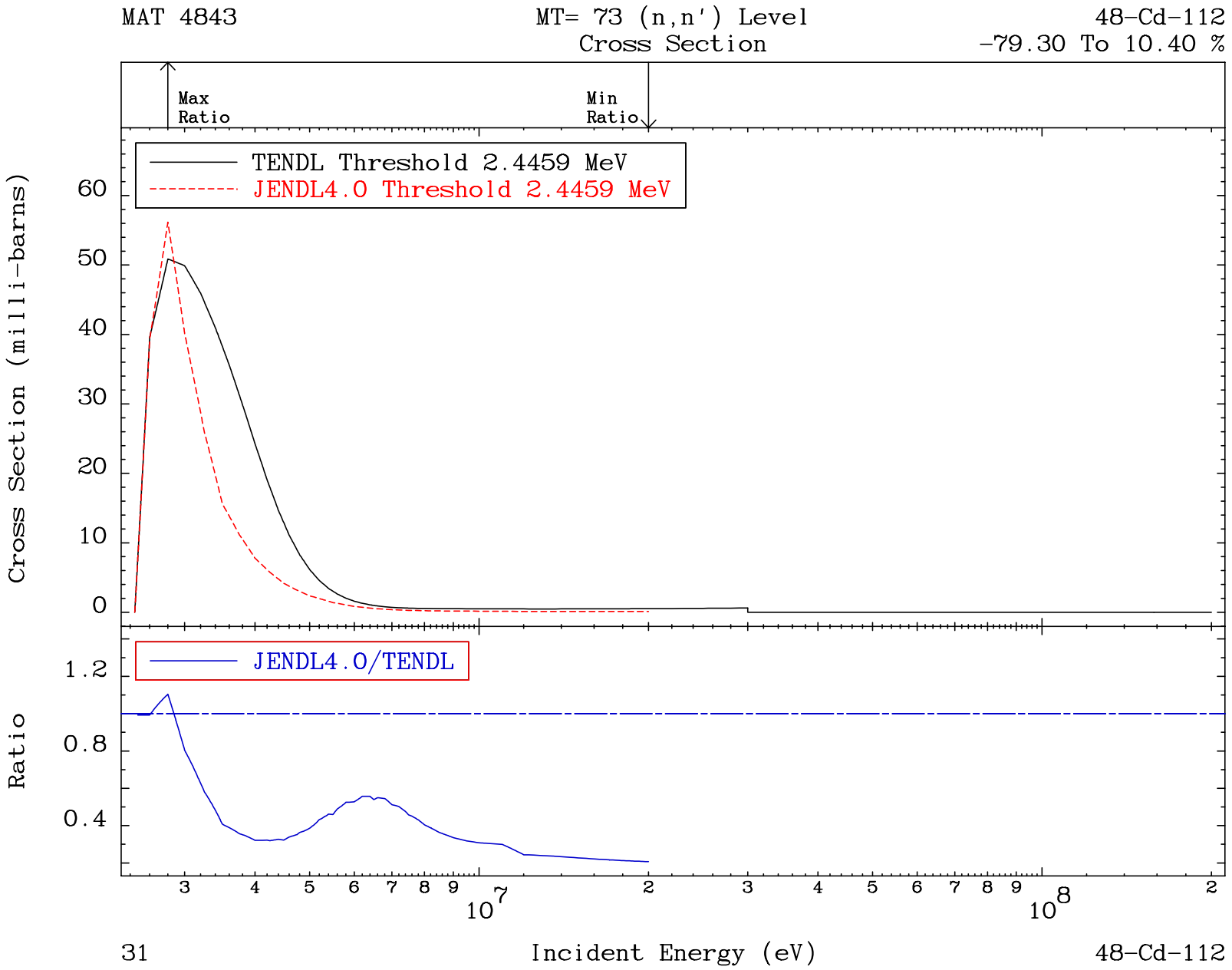

MAT 4843
MT= 68 (n,n') Level
Cross Section
48-Cd-112
-78.94 To -3.918%
Max
Ratio
Min
Ratio
TENDL Threshold 2.3258 MeV
JENDL4.0 Threshold 2.3258 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
0.8
0.4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
26
Incident Energy (eV)
48-Cd-112

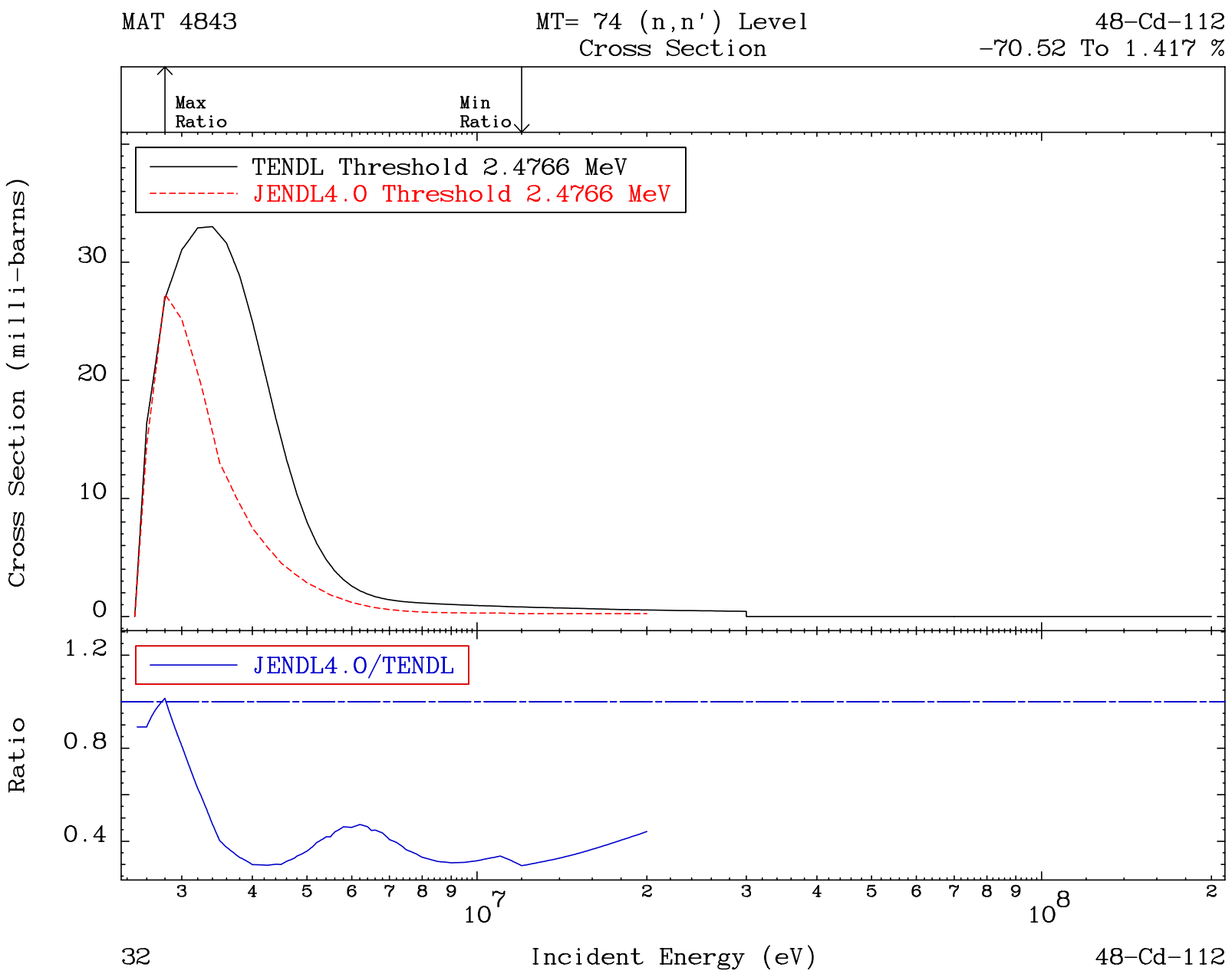

MAT 4843
MT= 69 (n,n') Level
Cross Section
48-Cd-112
-99.09 To -50.08%
Min
Ratio
Max
Ratio
TENDL Threshold 2.3561 MeV
JENDL4.0 Threshold 2.3561 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
27
Incident Energy (eV)
48-Cd-112

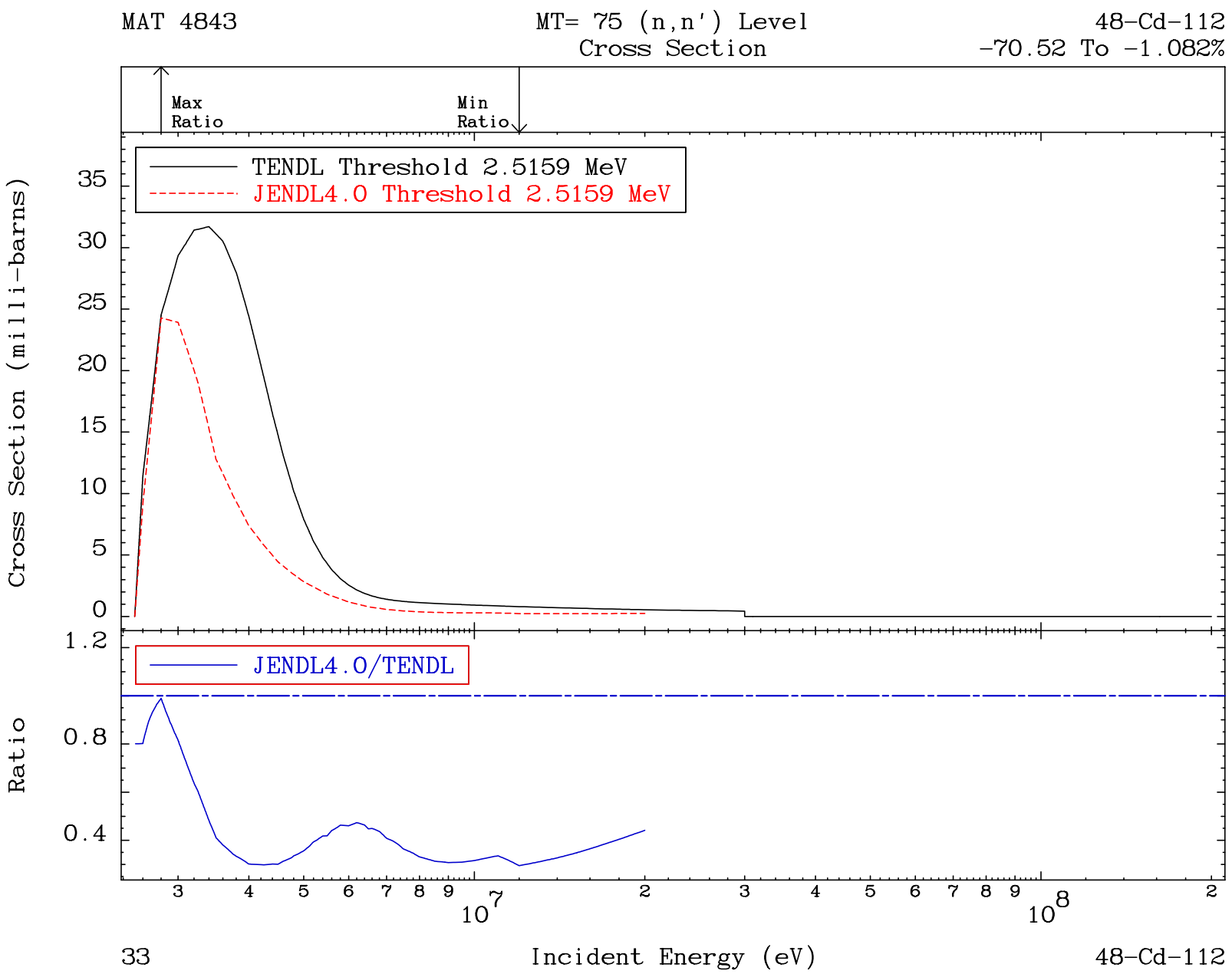

MAT 4843
MT= 70 (n,n') Level
Cross Section
48-Cd-112
-71.00 To -16.07%
Max Ratio
Min Ratio
TENDL Threshold 2.3947 MeV
JENDL4.0 Threshold 2.3947 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
1.0
0.8
0.6
0.4
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
28
Incident Energy (eV)
48-Cd-112

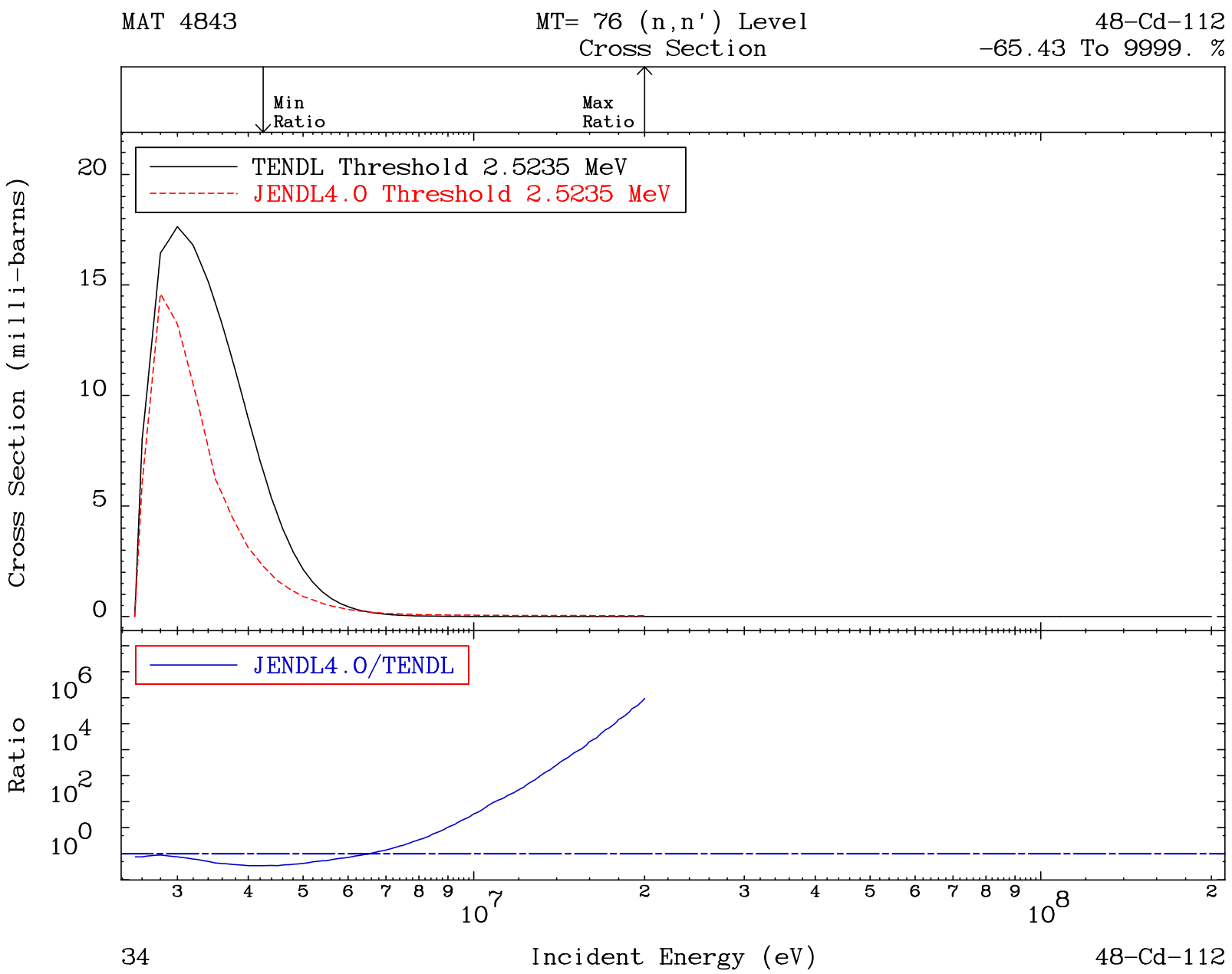

MAT 4843
MT= 71 (n,n') Level
Cross Section
48-Cd-112
-67.08 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.4248 MeV
JENDL4.0 Threshold 2.4248 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
29
Incident Energy (eV)
48-Cd-112

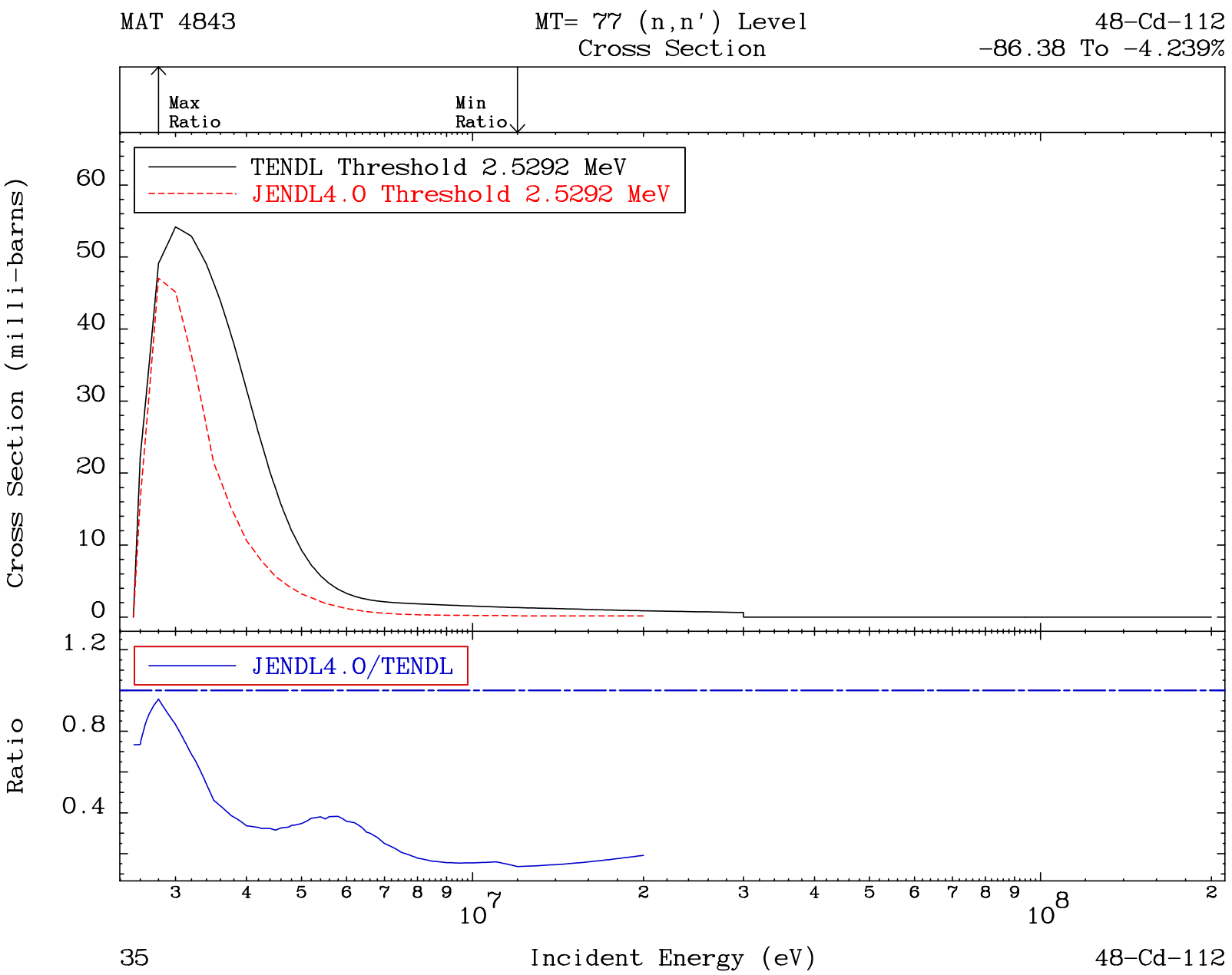

MAT 4843
MT= 72 (n,n') Level
Cross Section
48-Cd-112
-69.75 To -5.664%
Max Ratio
Min Ratio
TENDL Threshold 2.4380 MeV
JENDL4.0 Threshold 2.4380 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.0
0.8
0.6
0.4
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
30
Incident Energy (eV)
48-Cd-112

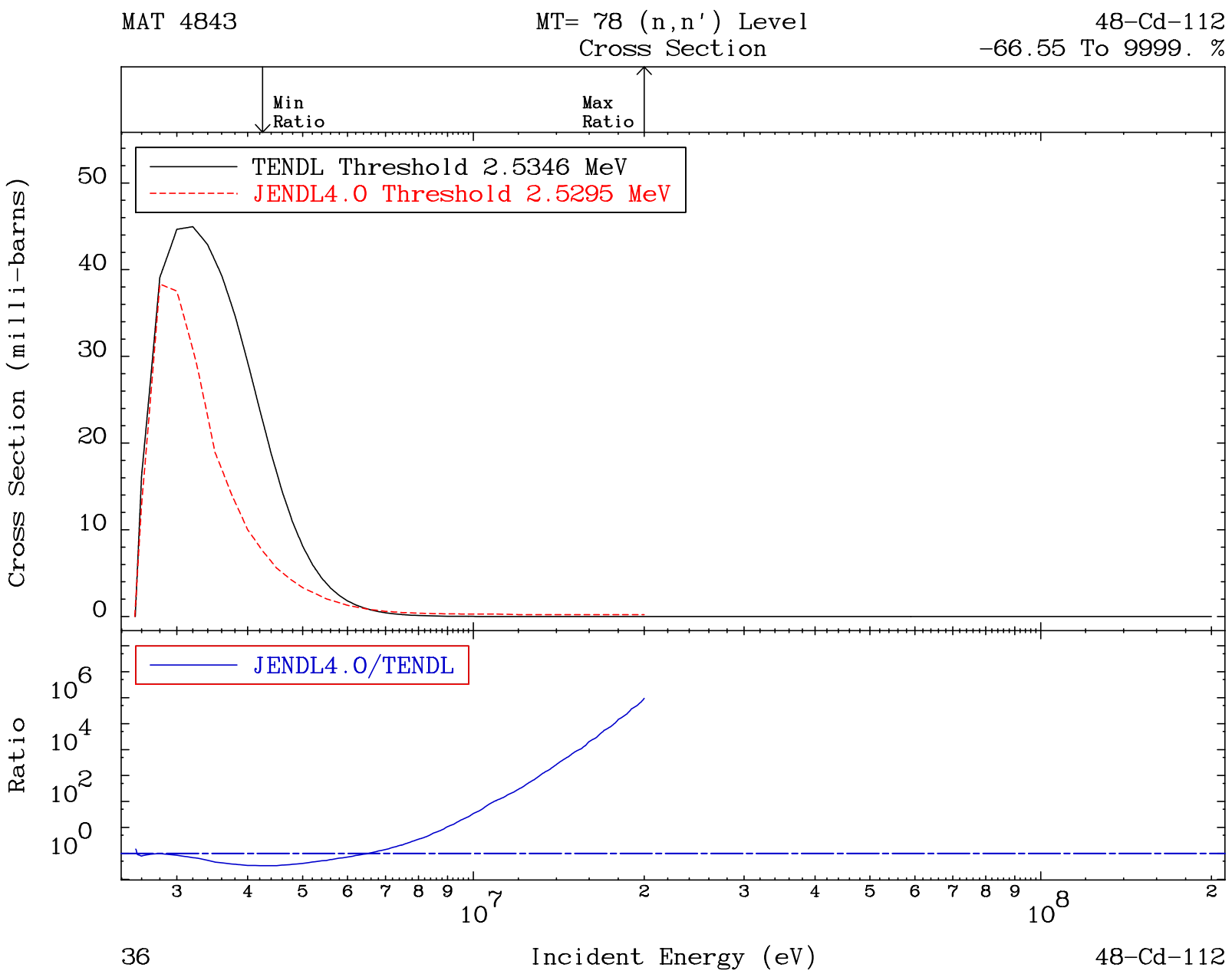

MAT 4843
MT= 73 (n,n') Level
Cross Section
48-Cd-112
-79.30 To 10.40 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.4459 MeV
JENDL4.0 Threshold 2.4459 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
31
Incident Energy (eV)
48-Cd-112

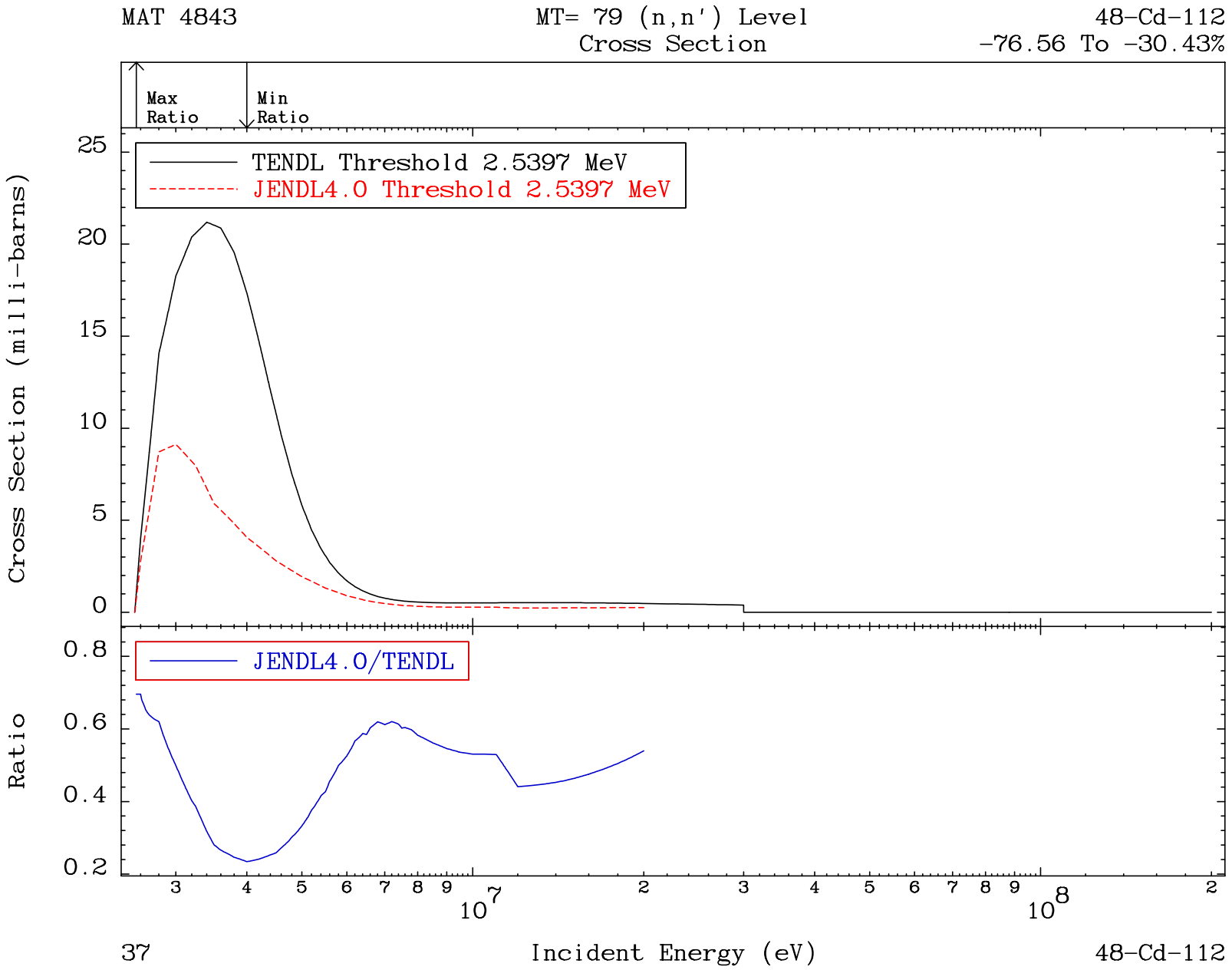

MAT 4843
MT= 74 (n,n') Level
Cross Section
48-Cd-112
-70.52 To 1.417 %
Max Ratio
Min Ratio
TENDL Threshold 2.4766 MeV
JENDL4.0 Threshold 2.4766 MeV
Cross Section (milli-barns)
30
20
10
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
48-Cd-112

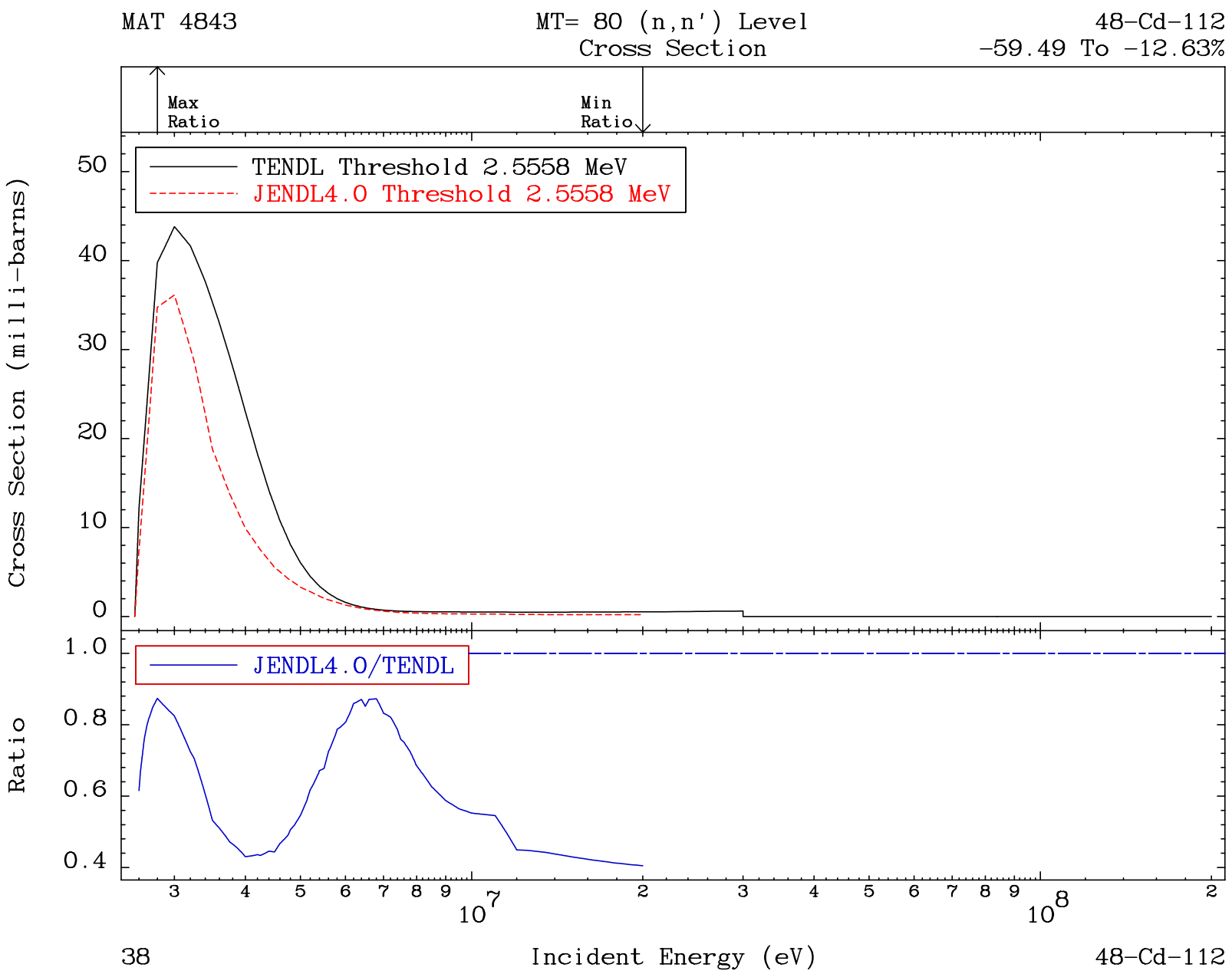

MAT 4843
MT= 75 (n,n') Level
Cross Section
48-Cd-112
-70.52 To -1.082%
Max Ratio
Min Ratio
TENDL Threshold 2.5159 MeV
JENDL4.0 Threshold 2.5159 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
48-Cd-112

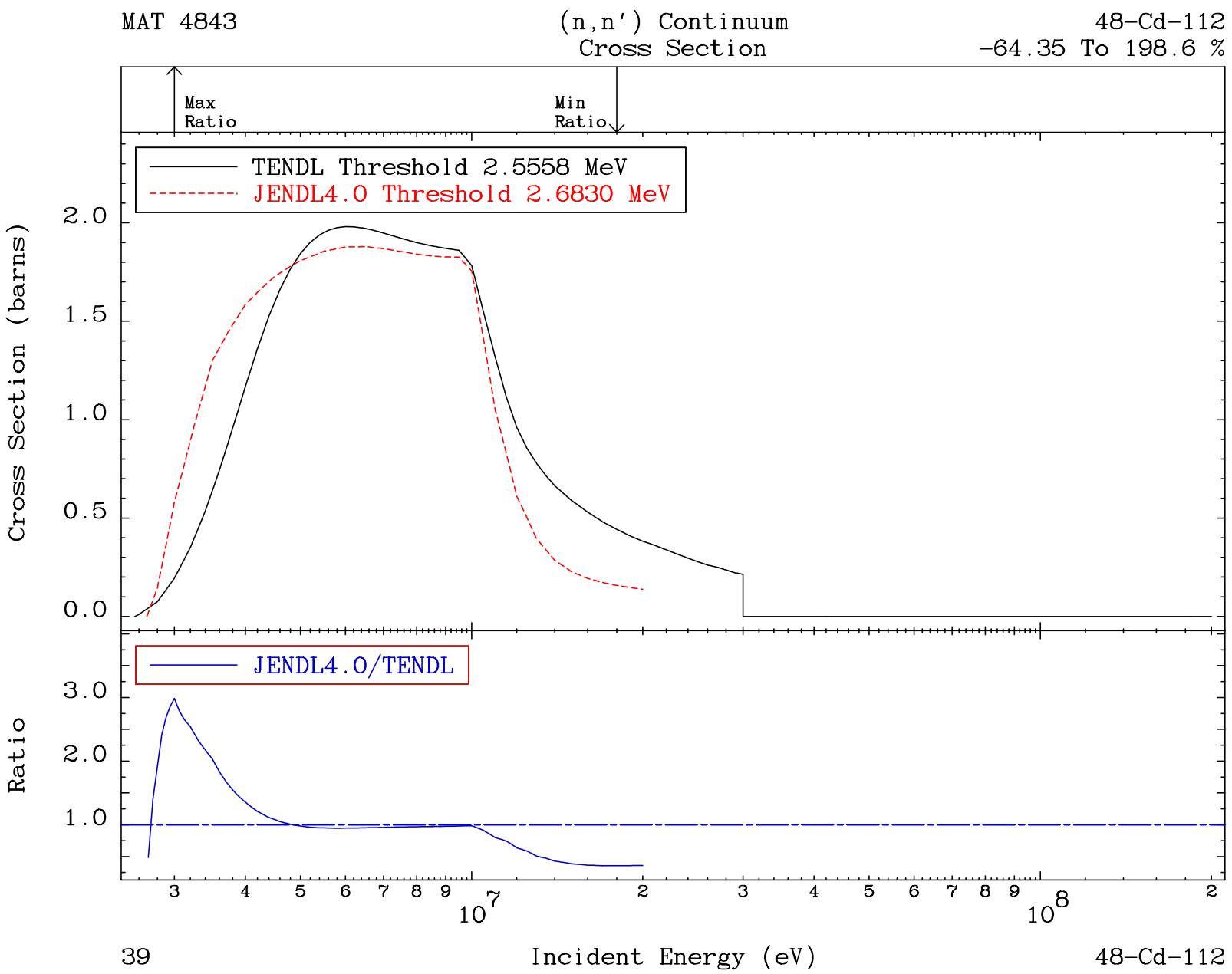

MAT 4843
MT= 76 (n,n') Level
Cross Section
48-Cd-112
-65.43 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5235 MeV
JENDL4.0 Threshold 2.5235 MeV
Cross Section (milli-barns)
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
34
Incident Energy (eV)
48-Cd-112

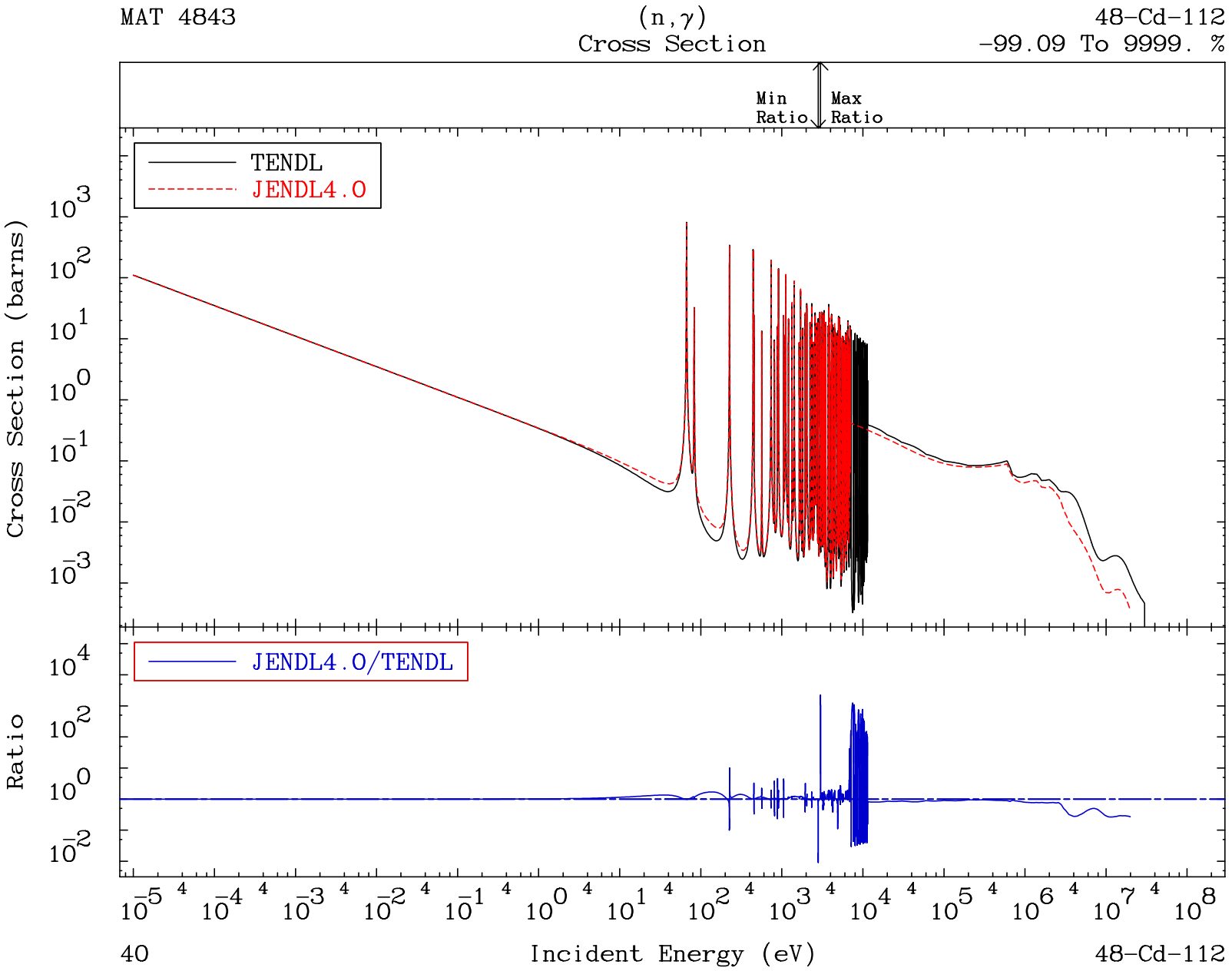

MAT 4843
MT= 77 (n,n') Level
Cross Section
48-Cd-112
-86.38 To -4.239%
Max Ratio
Min Ratio
TENDL Threshold 2.5292 MeV
JENDL4.0 Threshold 2.5292 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
1.2
0.8
0.4
Ratio
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
48-Cd-112

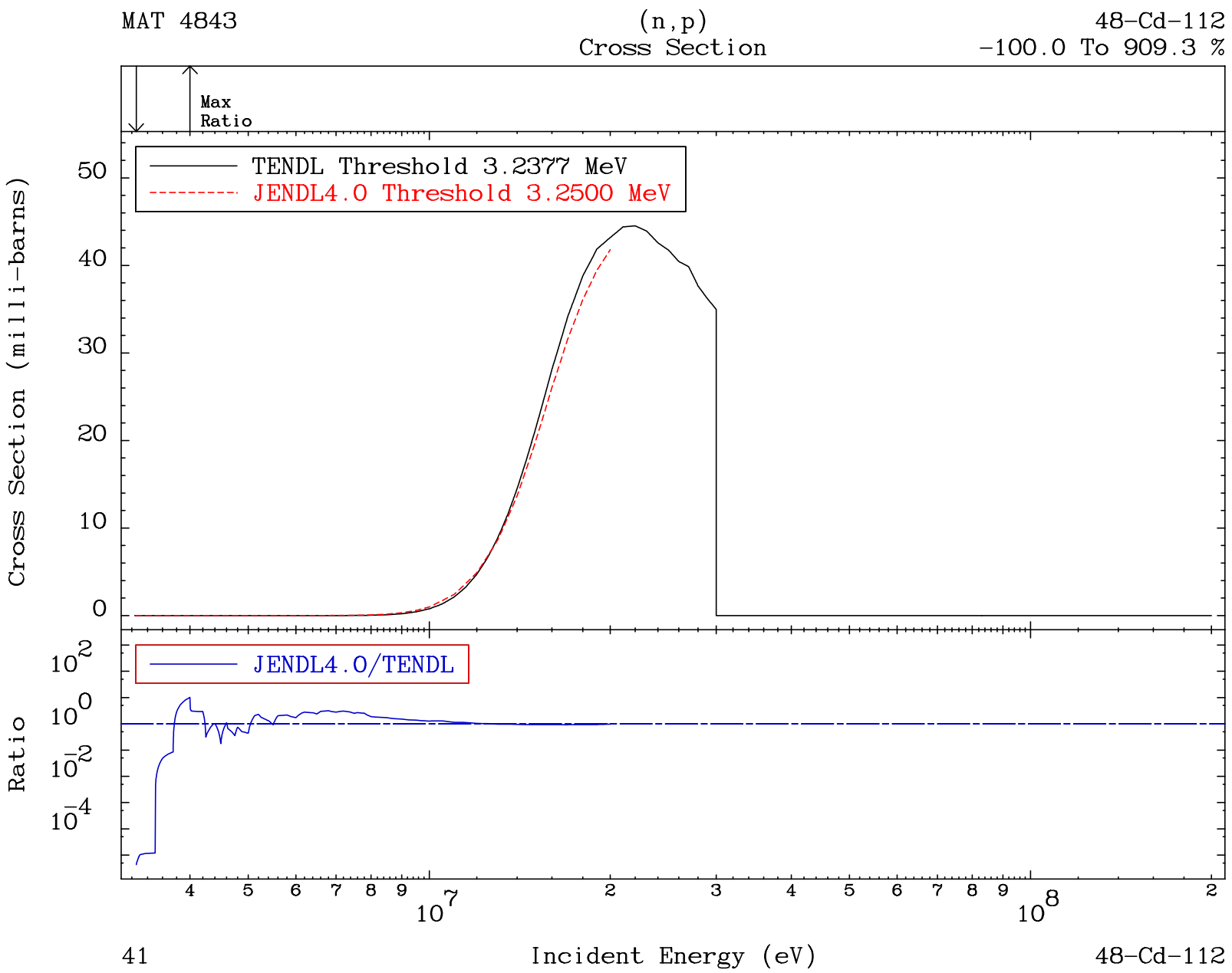

MAT 4843
MT= 78 (n,n') Level
Cross Section
48-Cd-112
-66.55 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5346 MeV
JENDL4.0 Threshold 2.5295 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
36
Incident Energy (eV)
48-Cd-112

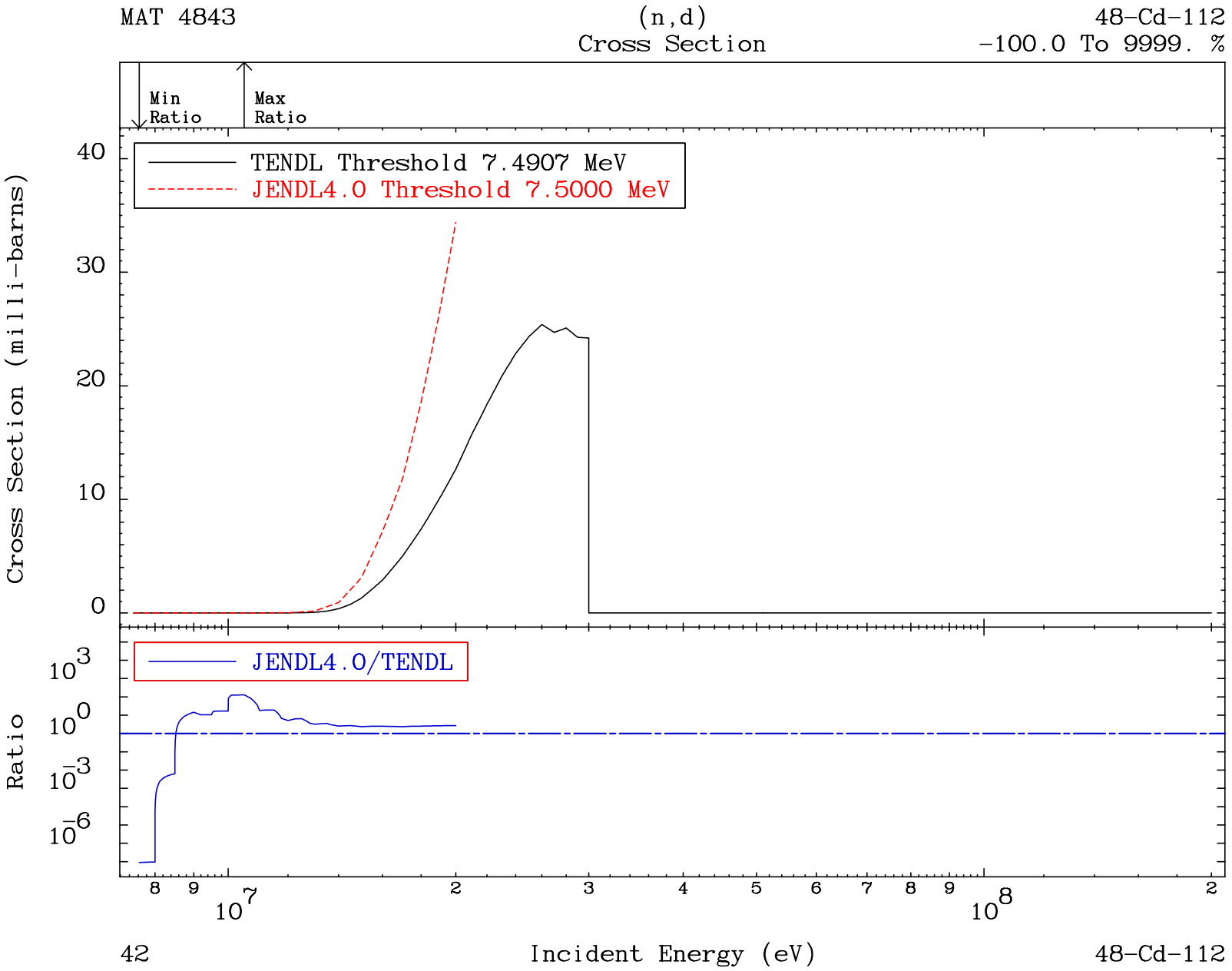

MAT 4843
MT= 79 (n,n') Level
Cross Section
48-Cd-112
-76.56 To -30.43%
Max Ratio
Min Ratio
TENDL Threshold 2.5397 MeV
JENDL4.0 Threshold 2.5397 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
0.8
0.6
0.4
0.2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
48-Cd-112

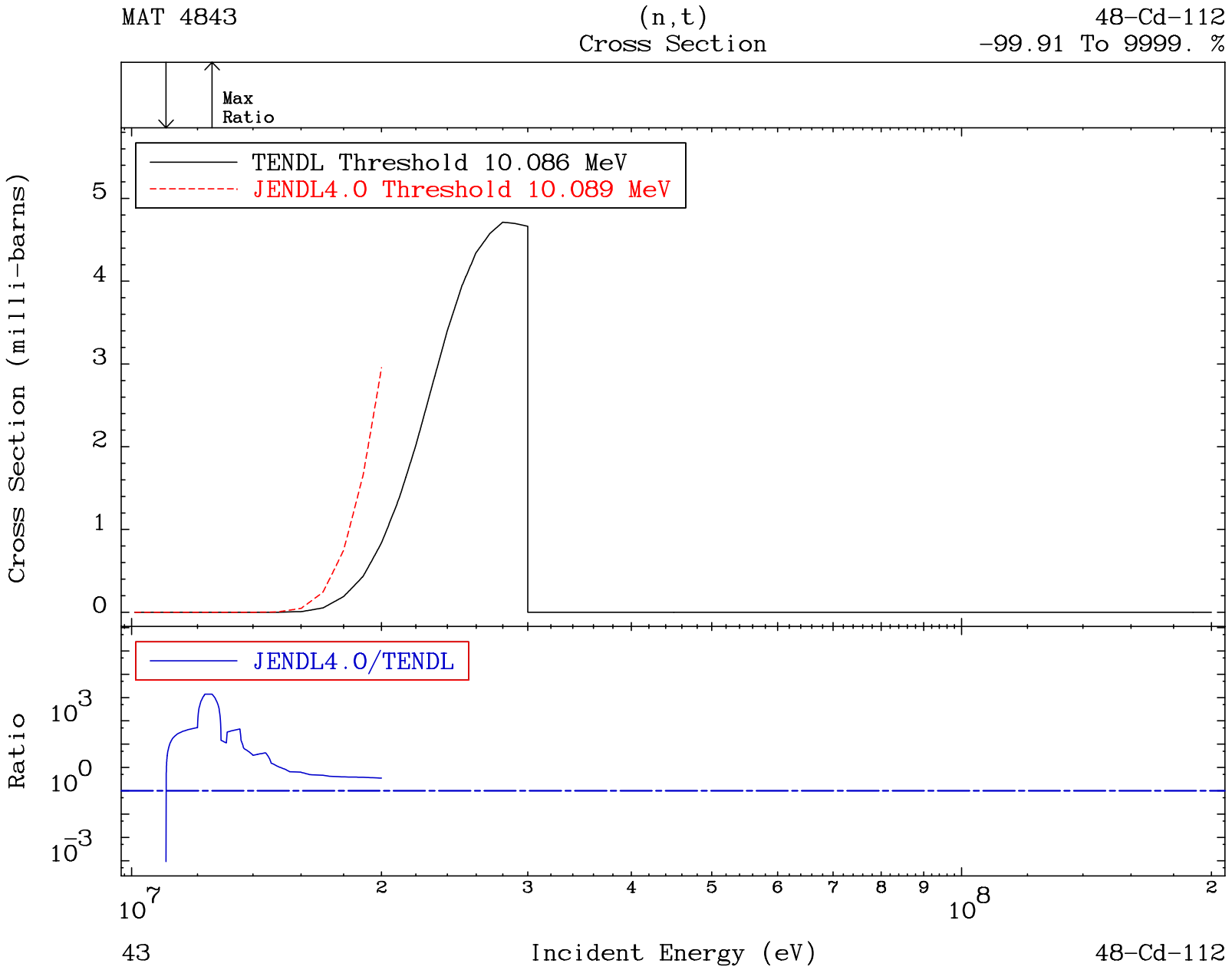

MAT 4843
MT= 80 (n,n') Level
Cross Section
48-Cd-112
-59.49 To -12.63%
Max
Ratio
Min
Ratio
TENDL Threshold 2.5558 MeV
JENDL4.0 Threshold 2.5558 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.0
0.8
0.6
0.4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
38
Incident Energy (eV)
48-Cd-112

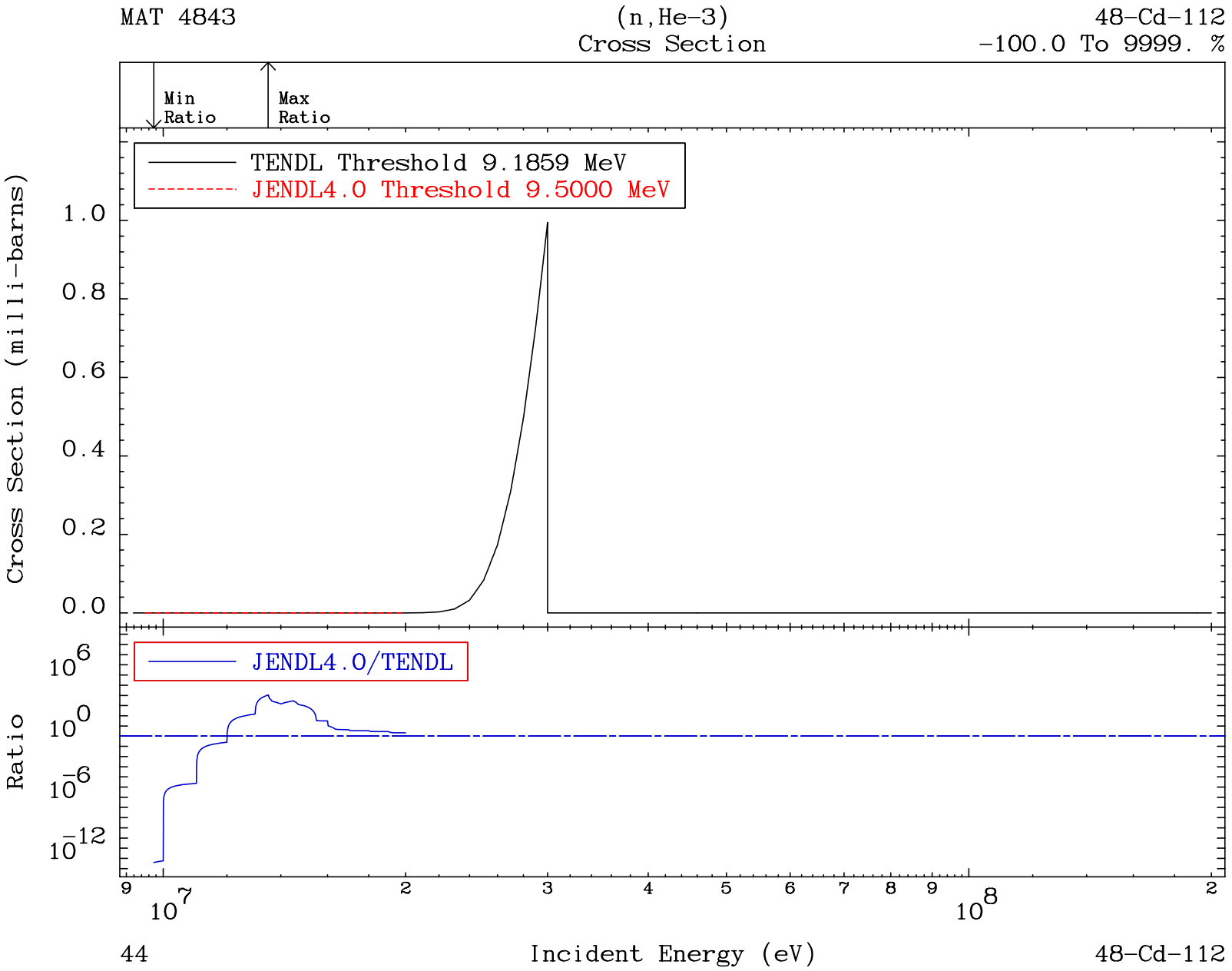

MAT 4843
(n,n') Continuum
Cross Section
48-Cd-112
-64.35 To 198.6 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.5558 MeV
JENDL4.0 Threshold 2.6830 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
39
Incident Energy (eV)
48-Cd-112

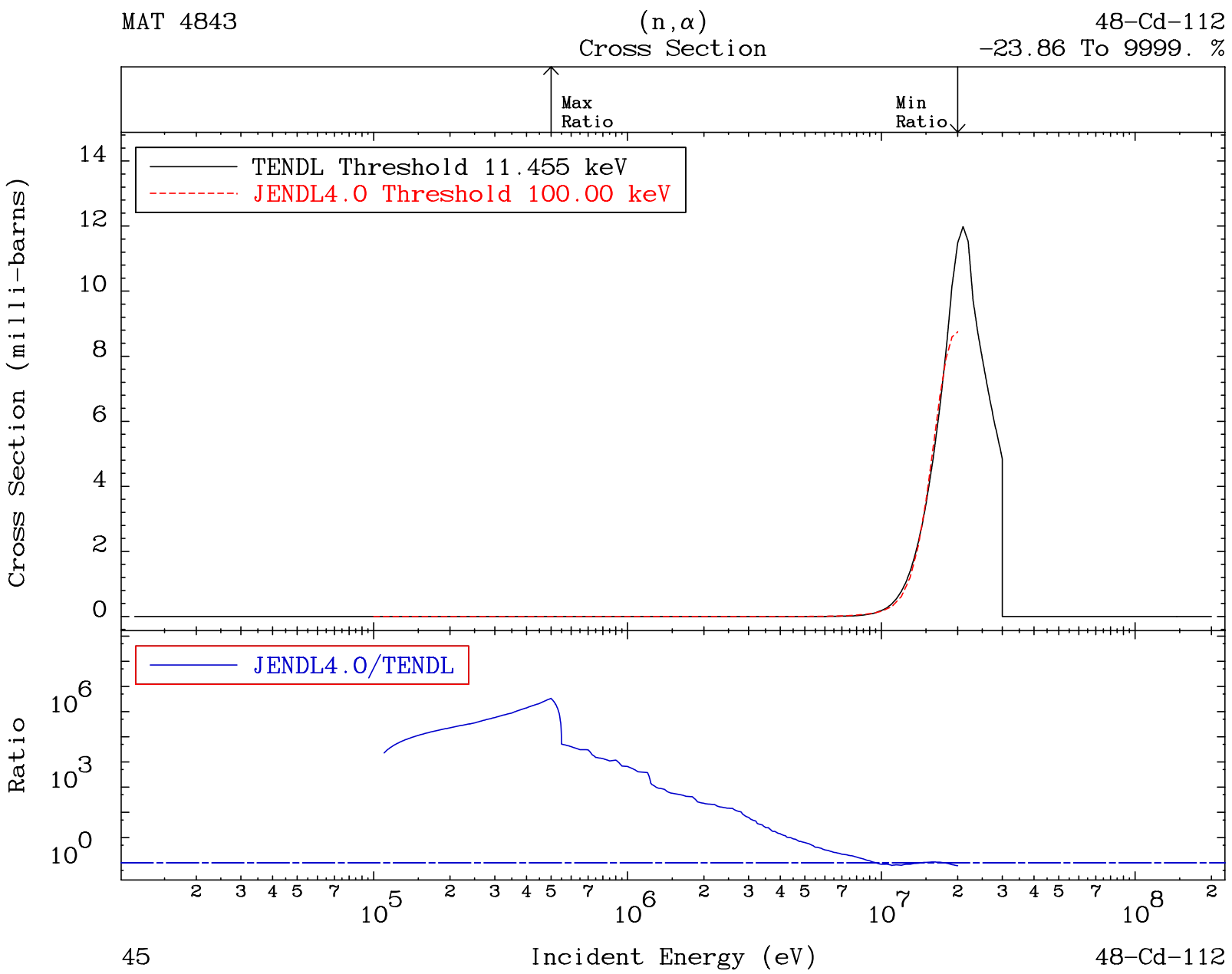

MAT 4843
(n,γ)
Cross Section
48-Cd-112
-99.09 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
40
48-Cd-112

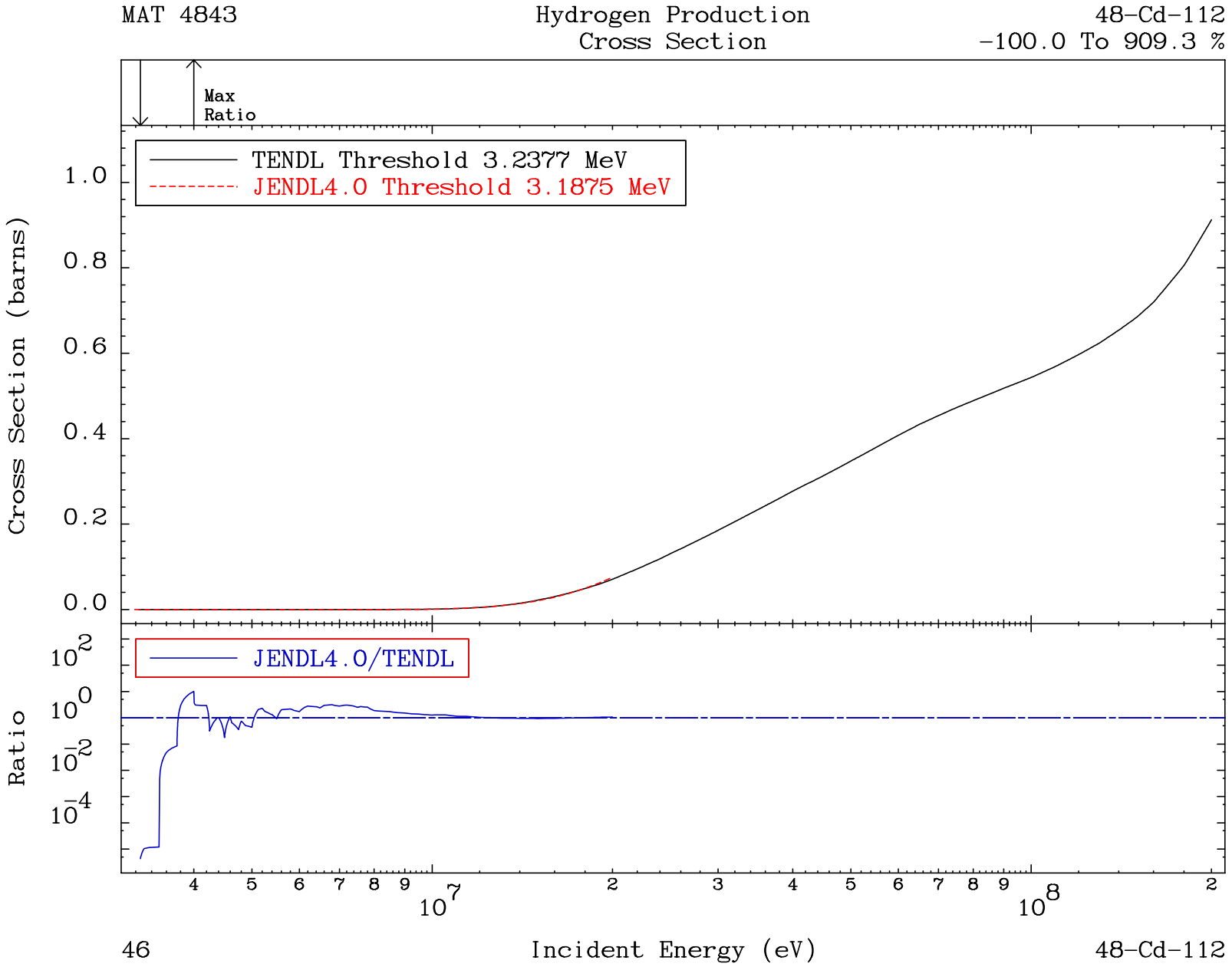

MAT 4843
(n,p)
Cross Section
48-Cd-112
-100.0 To 909.3 %
Max
Ratio
TENDL Threshold 3.2377 MeV
JENDL4.0 Threshold 3.2500 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^2
10^0
10^-2
10^-4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
48-Cd-112

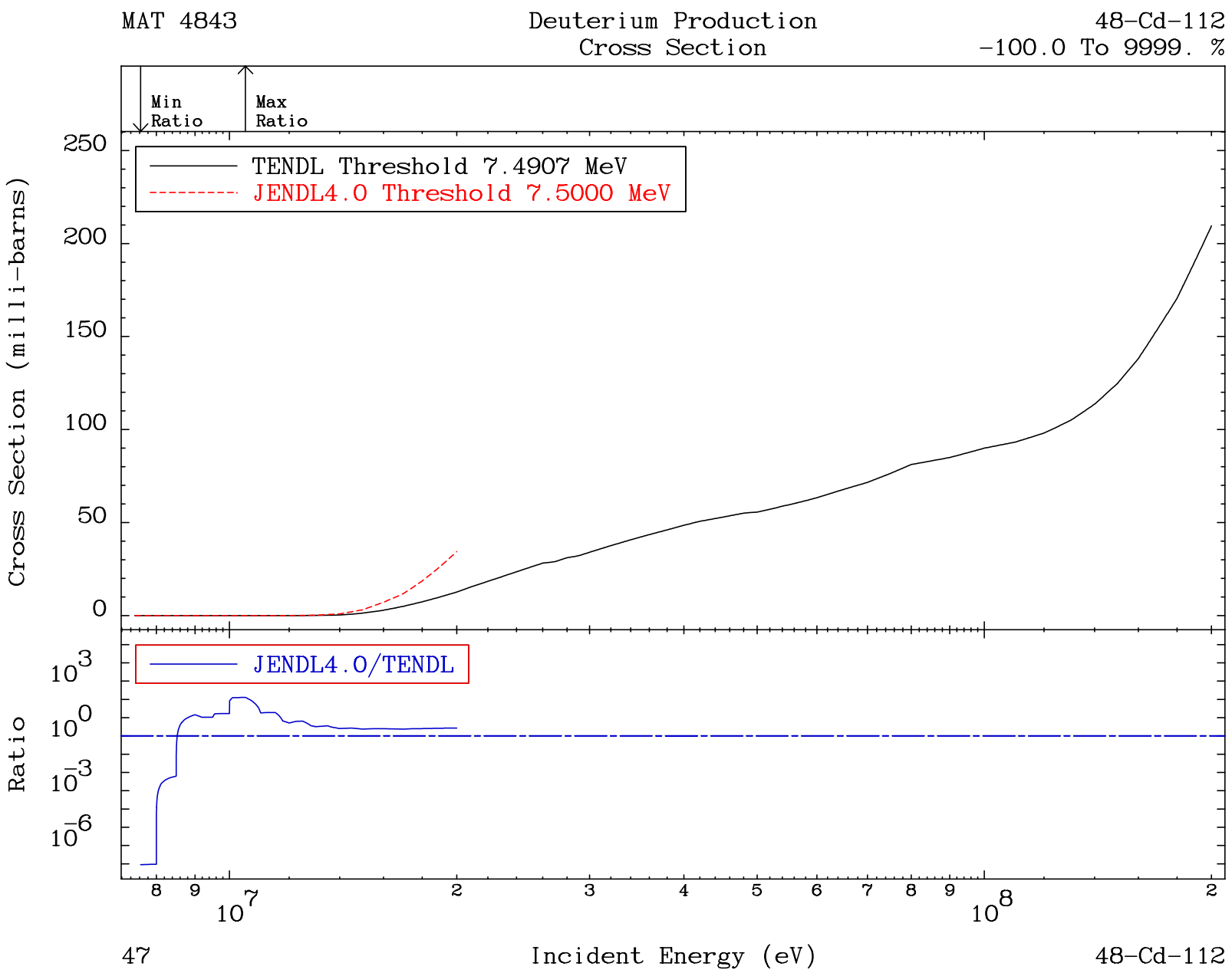

MAT 4843
(n,d)
Cross Section
48-Cd-112
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.4907 MeV
JENDL4.0 Threshold 7.5000 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^3
10^0
10^-3
10^-6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
48-Cd-112

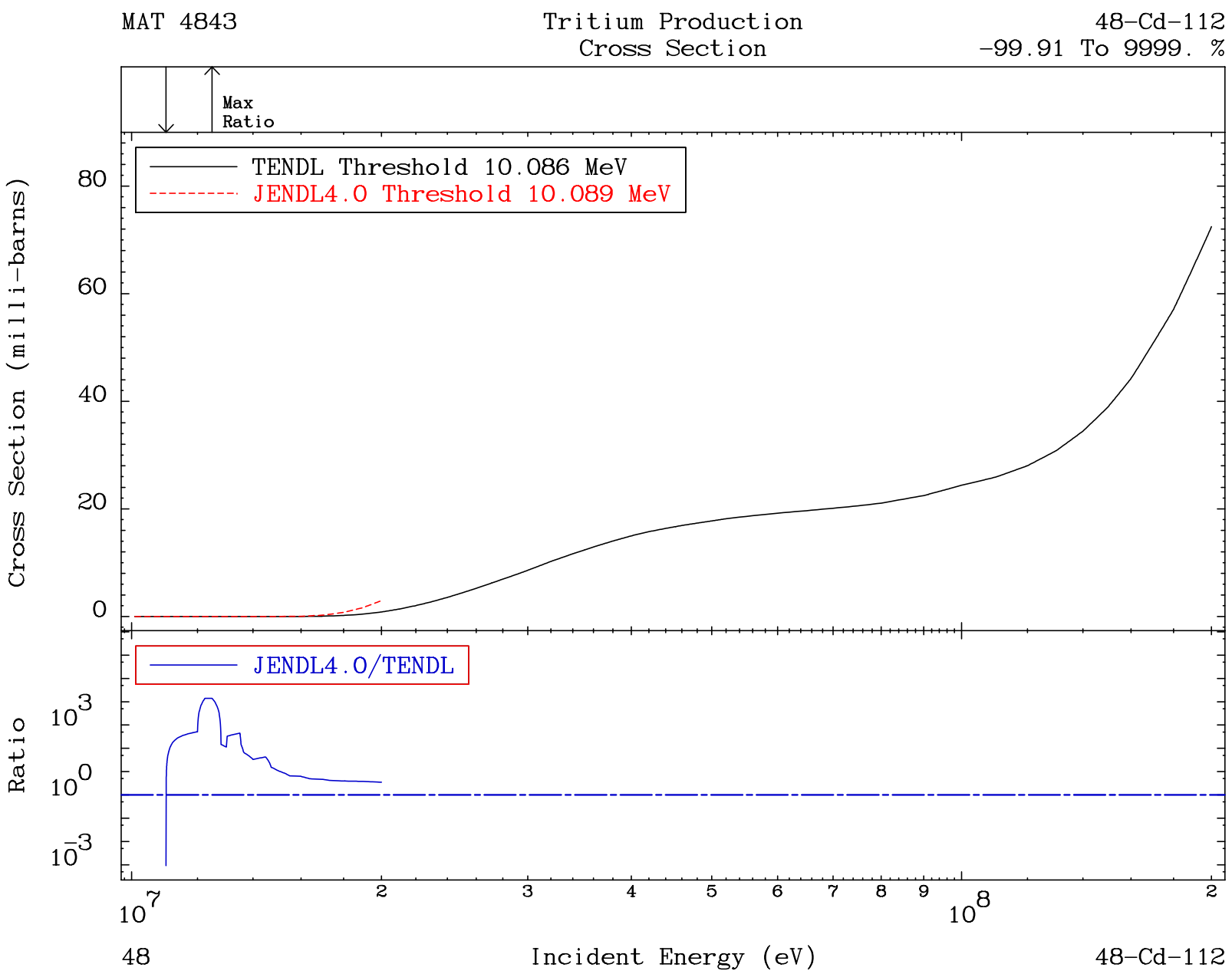

MAT 4843
(n,t)
Cross Section
48-Cd-112
-99.91 To 9999. %
Max
Ratio
TENDL Threshold 10.086 MeV
JENDL4.0 Threshold 10.089 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JENDL4.0/TENDL
Ratio
10^3
10^0
10^-3
10^7
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
48-Cd-112

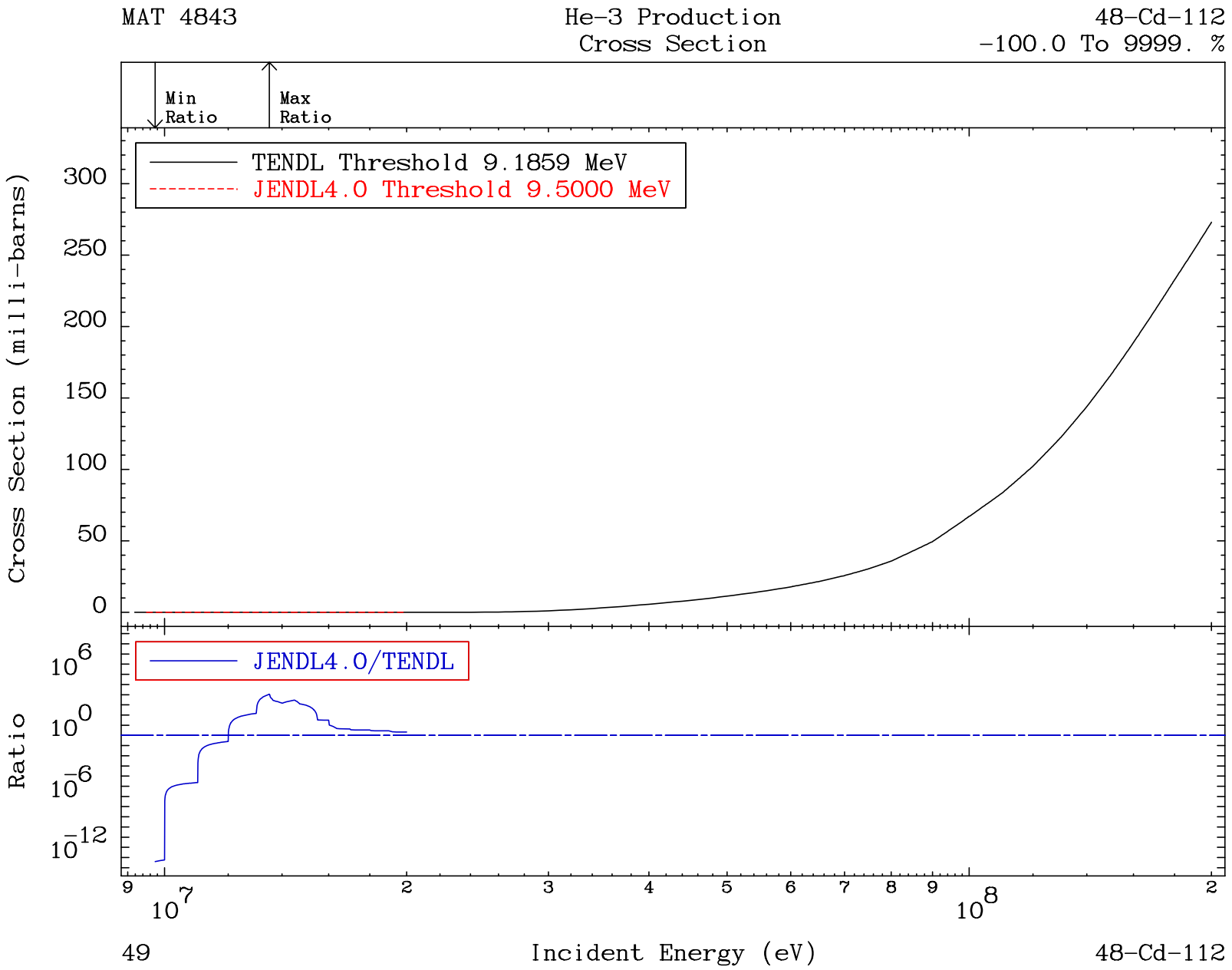

MAT 4843
(n,He-3)
Cross Section
48-Cd-112
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 9.1859 MeV
JENDL4.0 Threshold 9.5000 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^6
10^0
10^-6
10^-12
9
10^7
2
3
4
5
6
7
8
9
10^8
2
44
Incident Energy (eV)
48-Cd-112

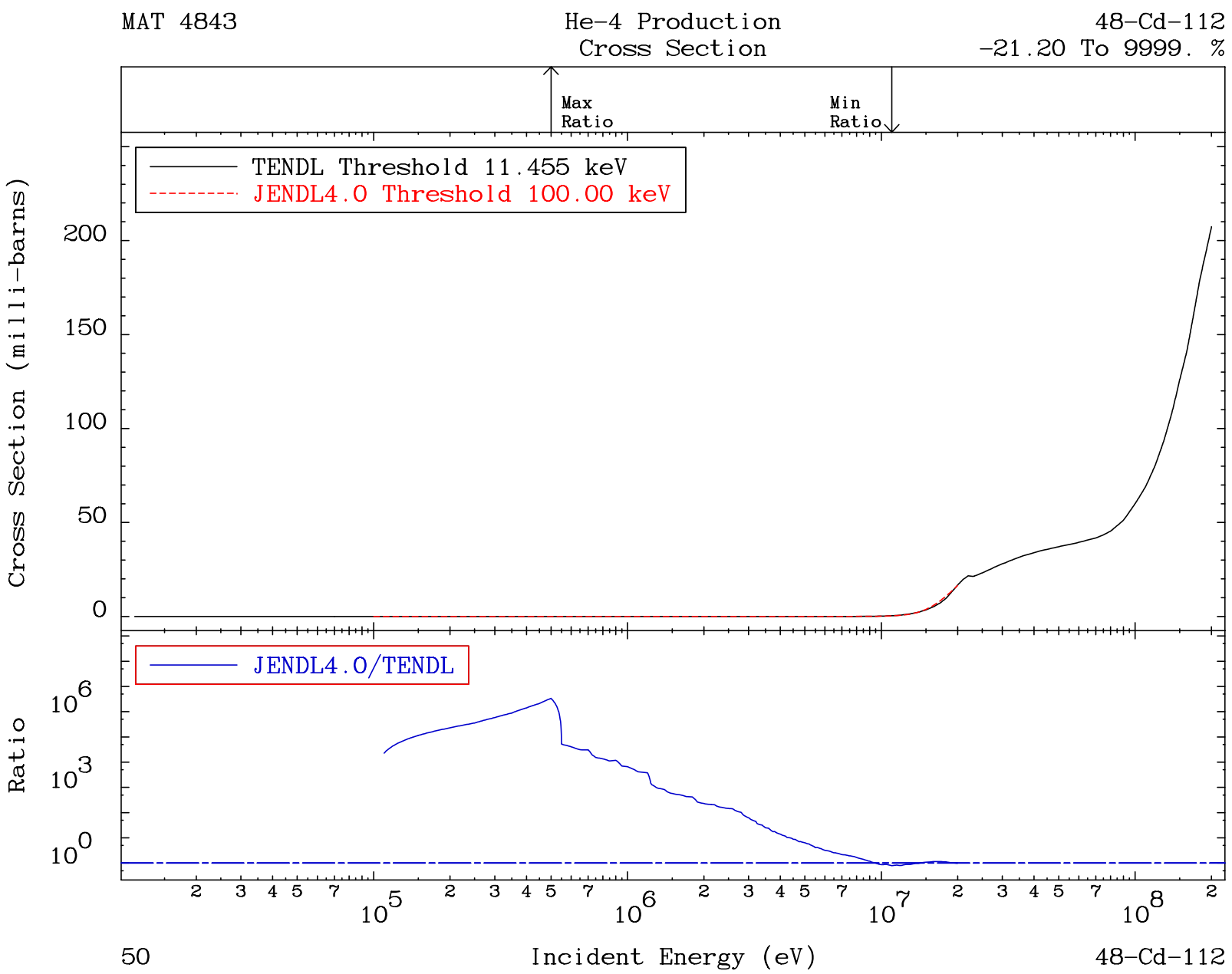

MAT 4843
(n,α)
Cross Section
48-Cd-112
-23.86 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.455 keV
JENDL4.0 Threshold 100.00 keV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
45
48-Cd-112

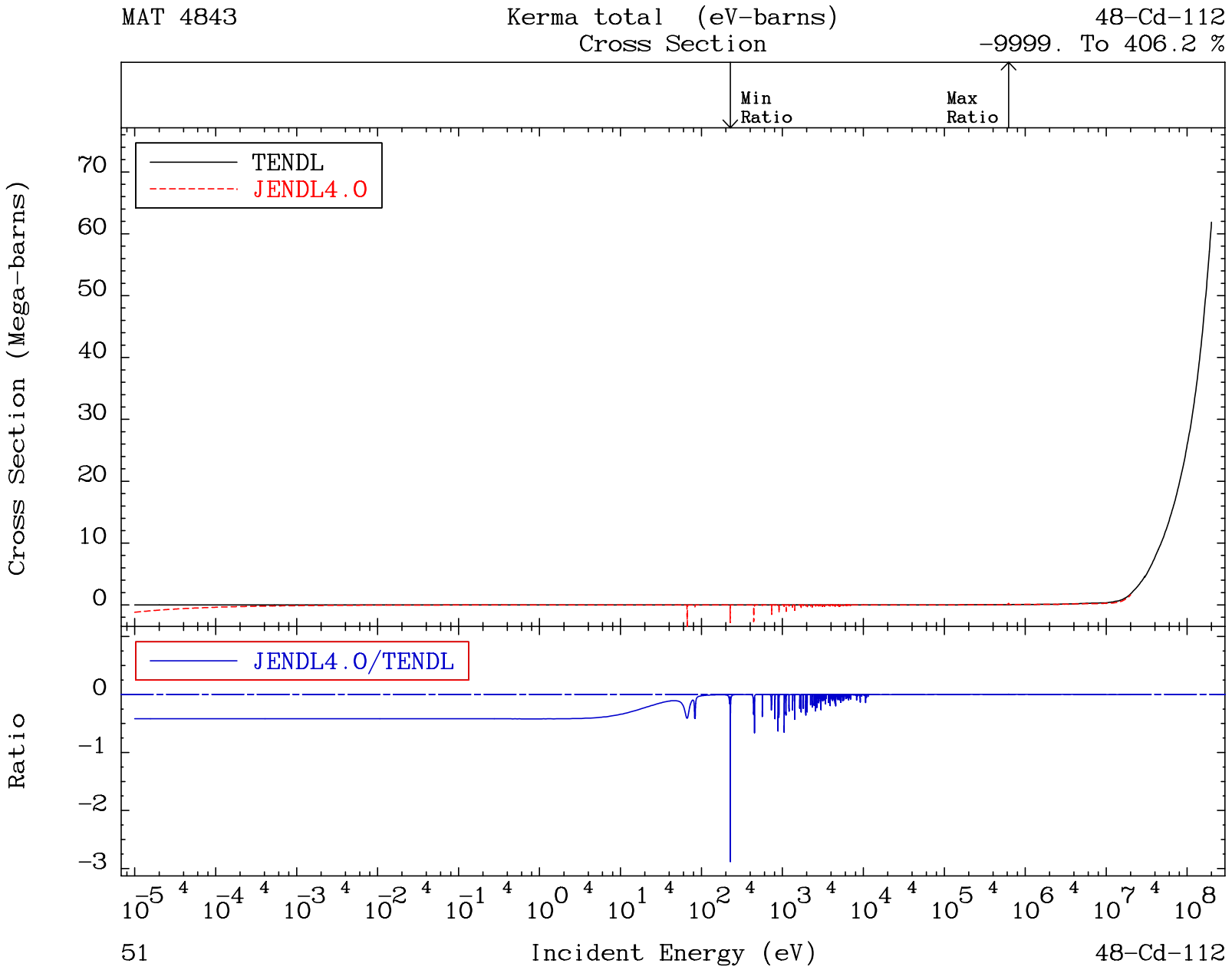

MAT 4843
Hydrogen Production
Cross Section
48-Cd-112
-100.0 To 909.3 %
Max
Ratio
TENDL Threshold 3.2377 MeV
JENDL4.0 Threshold 3.1875 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^2
10^0
10^-2
10^-4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
48-Cd-112

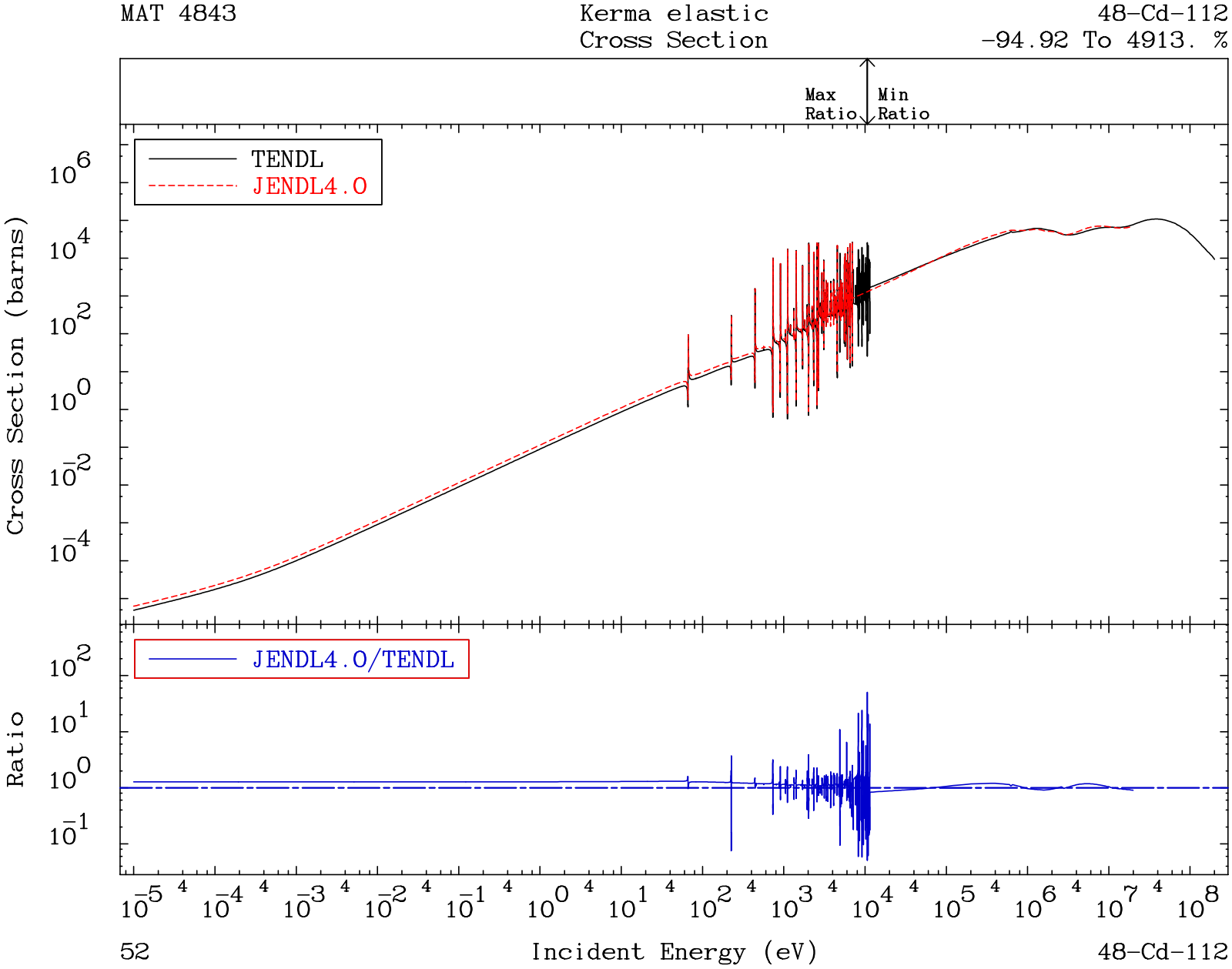

MAT 4843
Deuterium Production
Cross Section
48-Cd-112
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.4907 MeV
JENDL4.0 Threshold 7.5000 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^3
10^0
10^-3
10^-6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
48-Cd-112

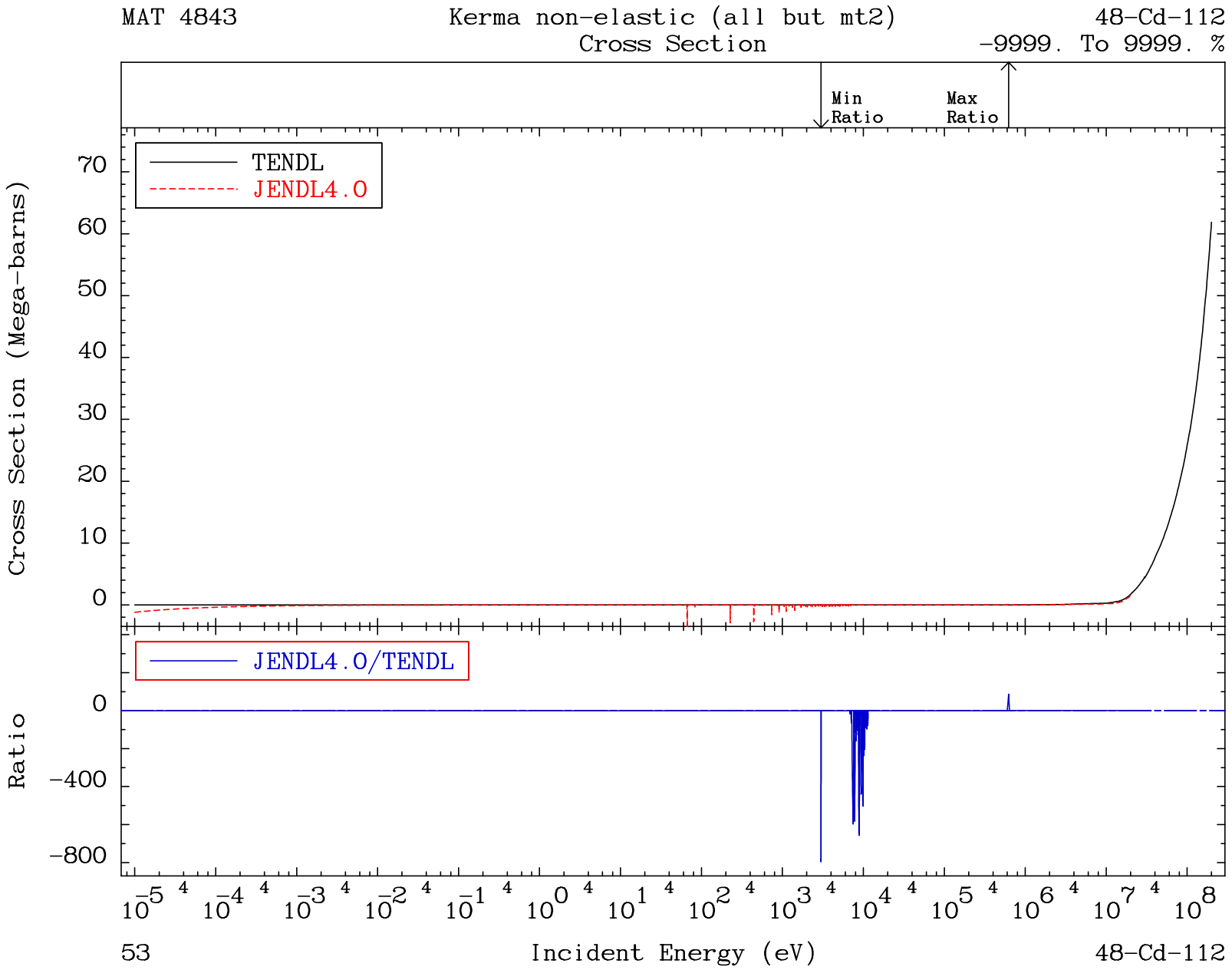

MAT 4843
Tritium Production
Cross Section
48-Cd-112
-99.91 To 9999. %
Max
Ratio
TENDL Threshold 10.086 MeV
JENDL4.0 Threshold 10.089 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^3
10^0
10^-3
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
48-Cd-112

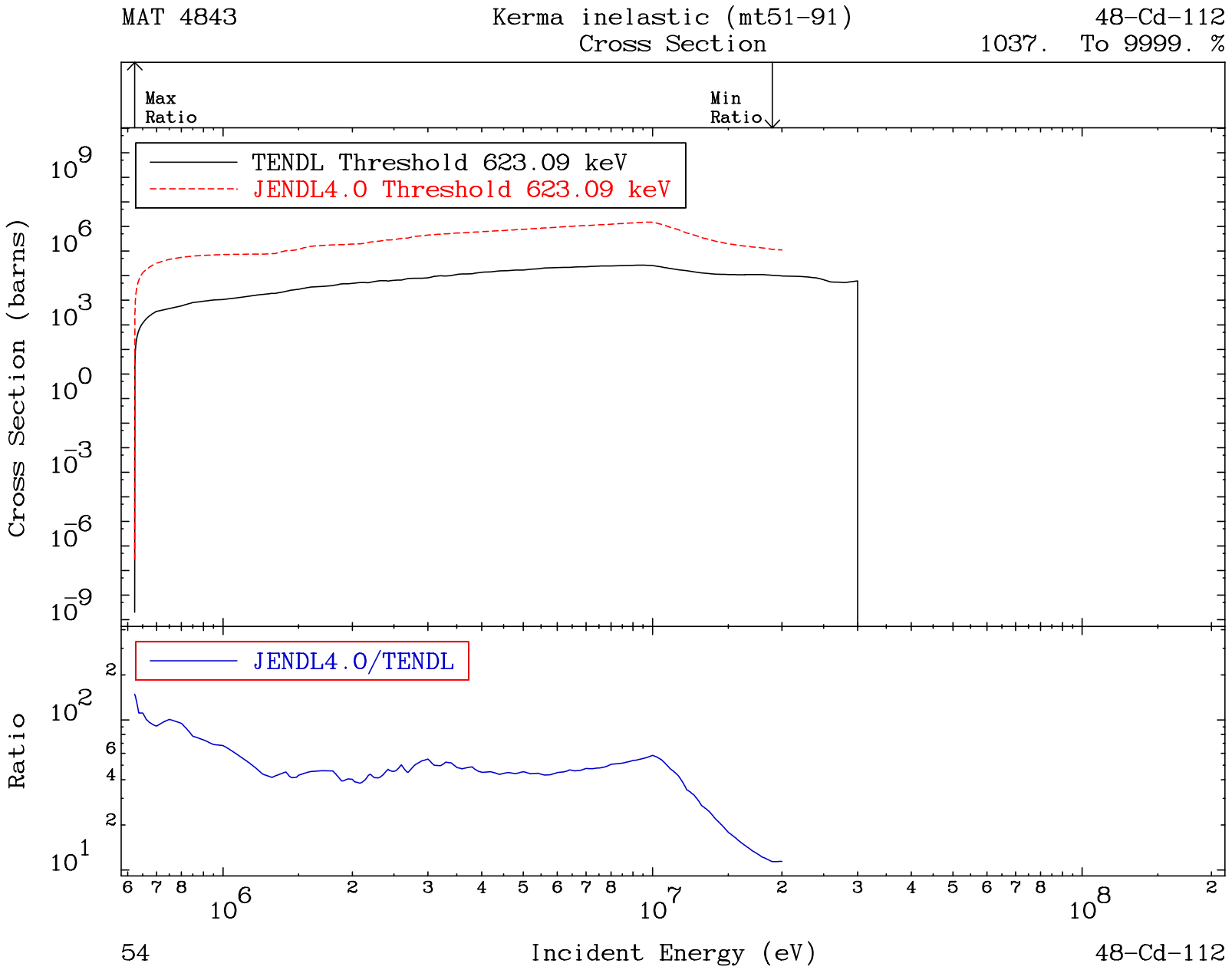

MAT 4843
He-3 Production
Cross Section
48-Cd-112
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 9.1859 MeV
JENDL4.0 Threshold 9.5000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^6
10^0
10^-6
10^-12
9
10^7
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
48-Cd-112

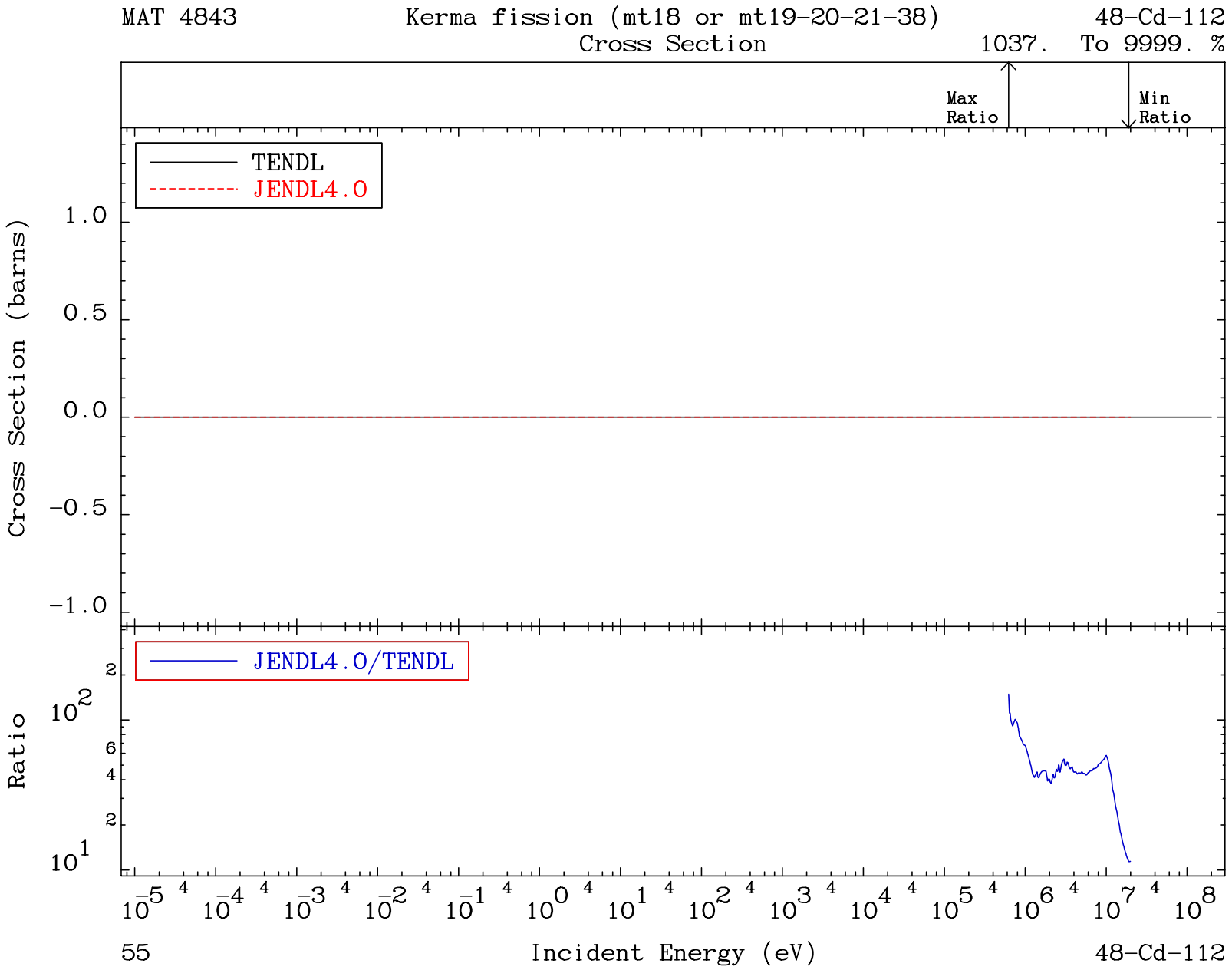

MAT 4843
He-4 Production
Cross Section
48-Cd-112
-21.20 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.455 keV
JENDL4.0 Threshold 100.00 keV
Cross Section (milli-barns)
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^6
10^3
10^0
2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
50
Incident Energy (eV)
48-Cd-112

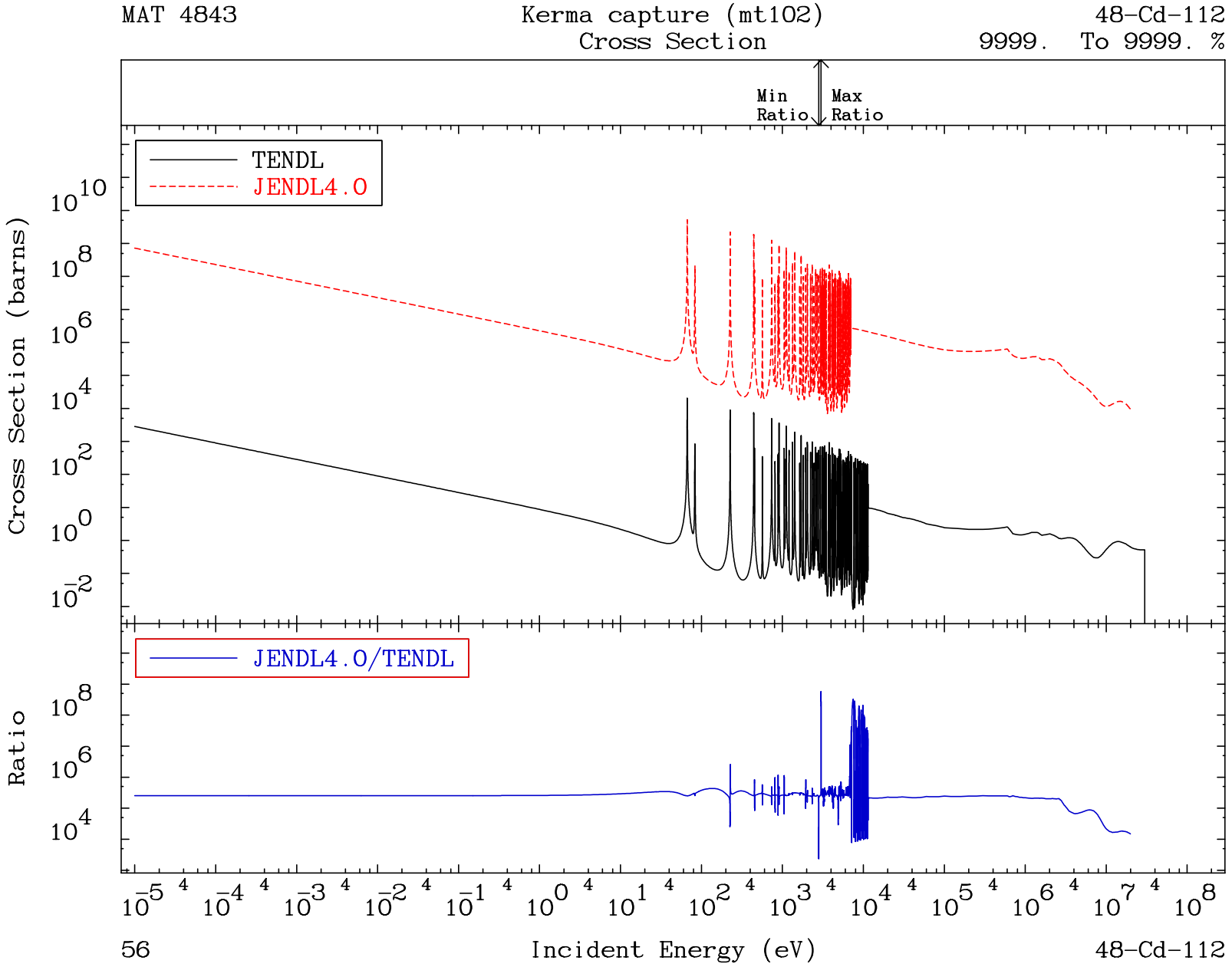

MAT 4843
Kerma total (eV-barns)
Cross Section
48-Cd-112
-9999. To 406.2 %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (Mega-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
0
-1
-2
-3
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
51
Incident Energy (eV)
48-Cd-112

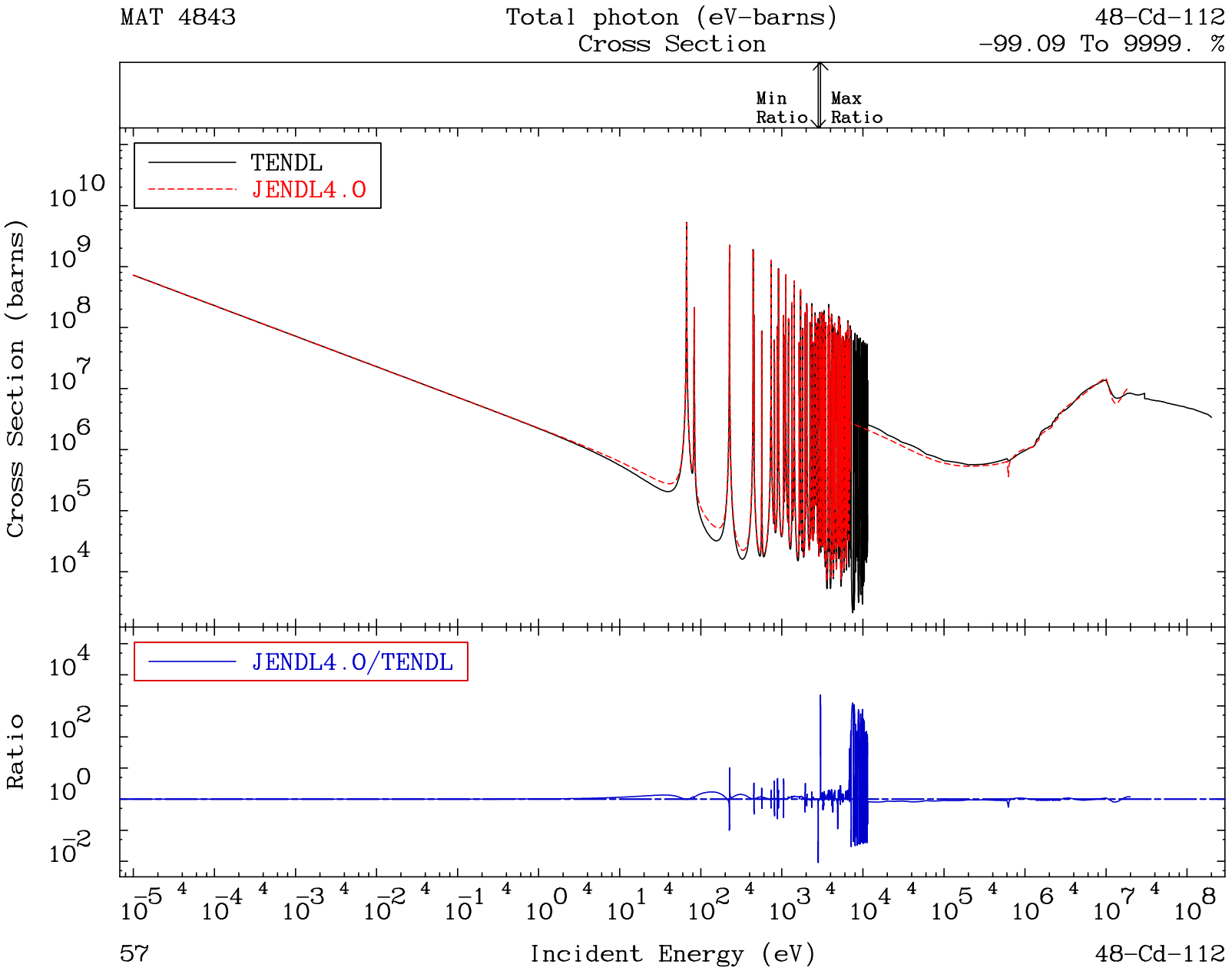

MAT 4843
Kerma elastic
Cross Section
48-Cd-112
-94.92 To 4913. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
52
48-Cd-112

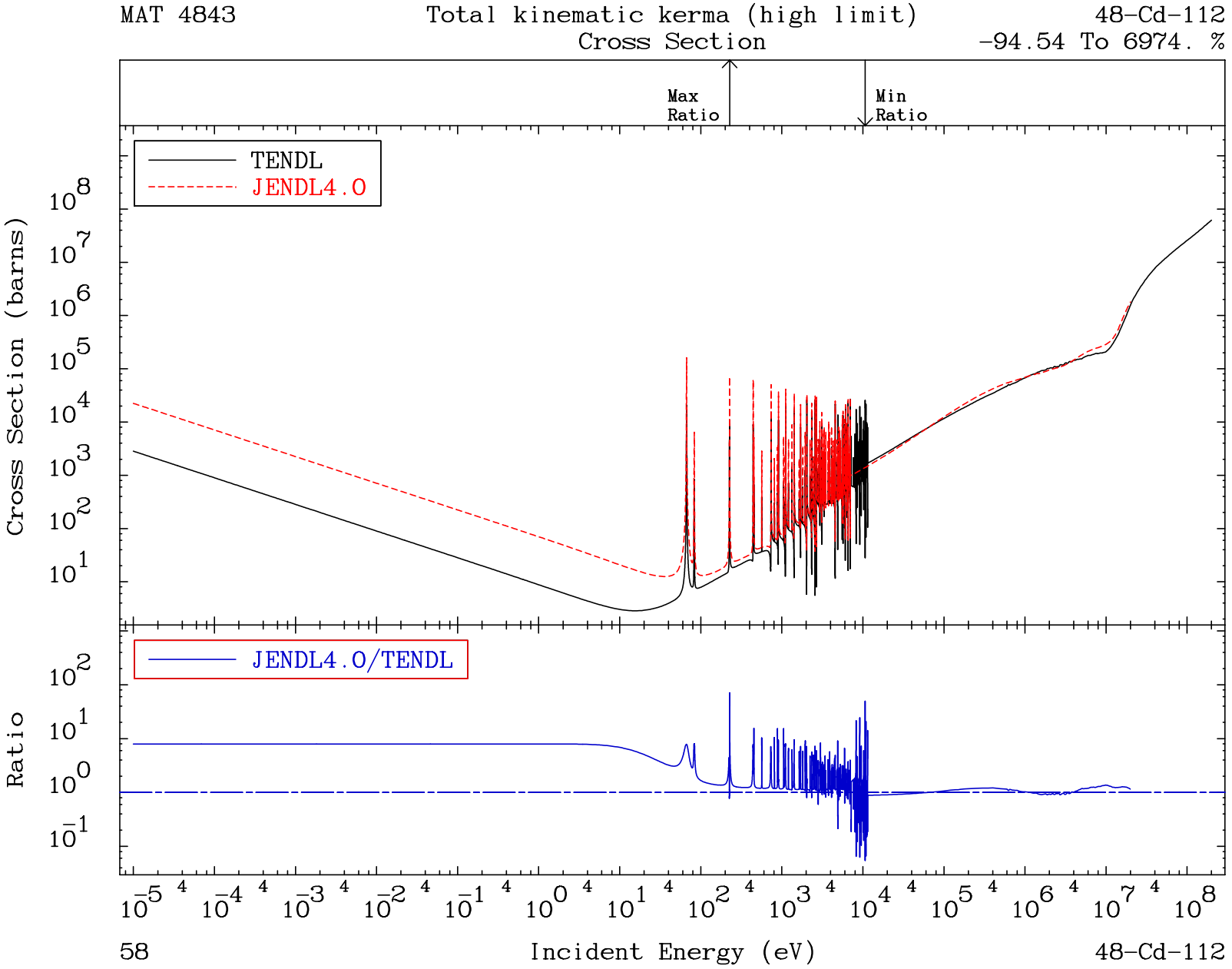

MAT 4843
Kerma non-elastic (all but mt2)
Cross Section
48-Cd-112
-9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (Mega-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
0
-400
-800
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
53
Incident Energy (eV)
48-Cd-112

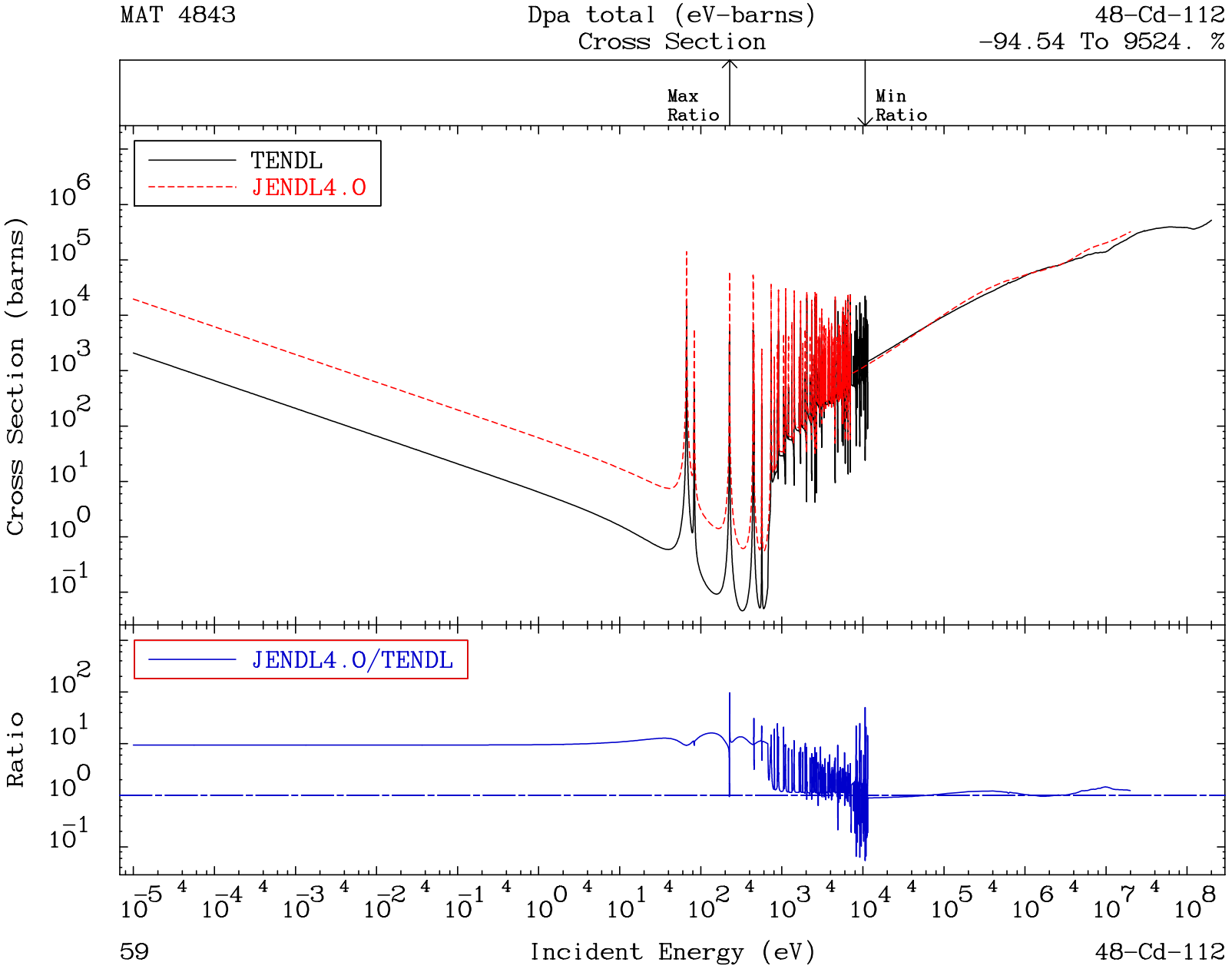

MAT 4843
Kerma inelastic (mt51-91)
Cross Section
48-Cd-112
1037. To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 623.09 keV
JENDL4.0 Threshold 623.09 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
54
48-Cd-112

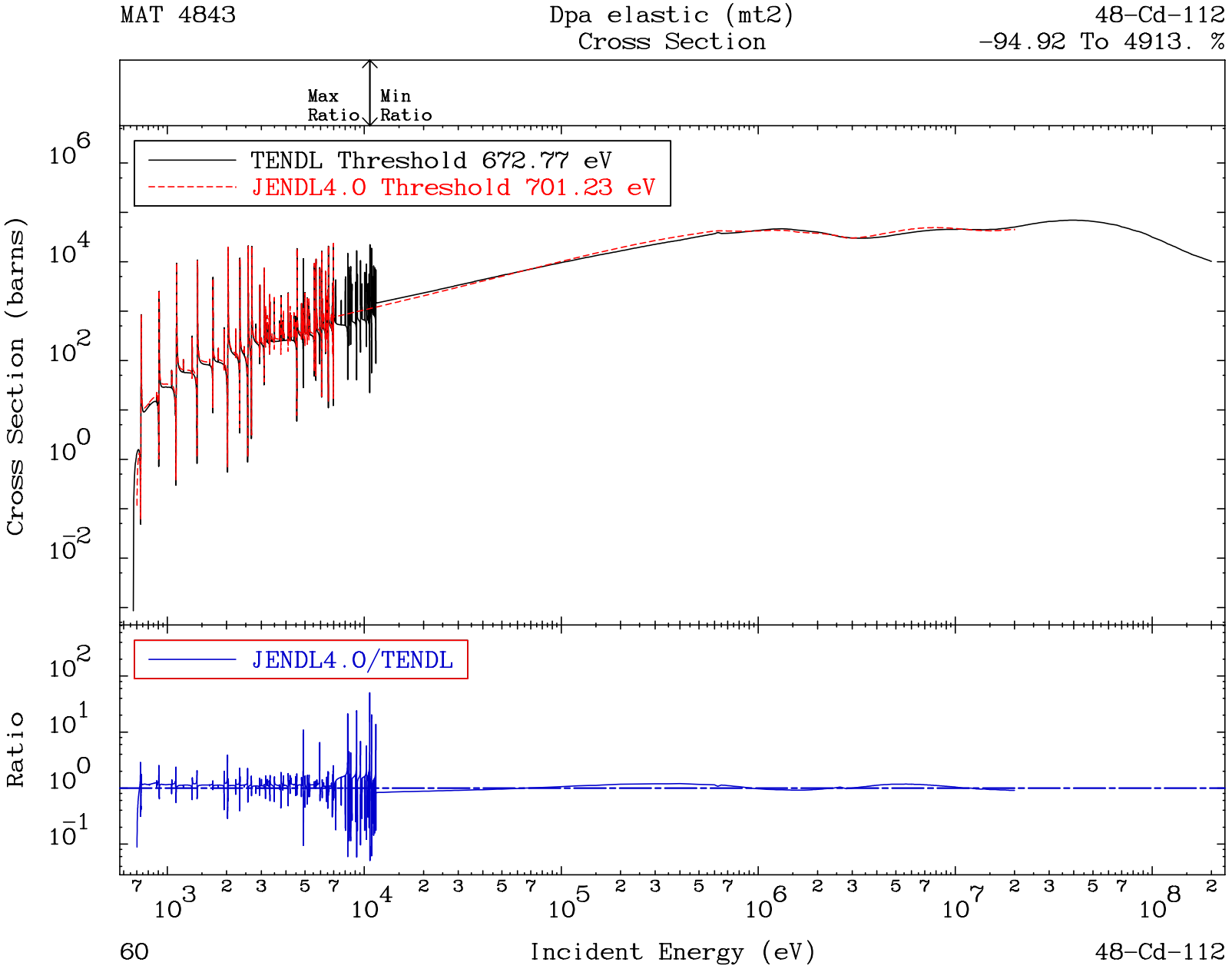

MAT 4843
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
48-Cd-112
1037. To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
55
Incident Energy (eV)
48-Cd-112

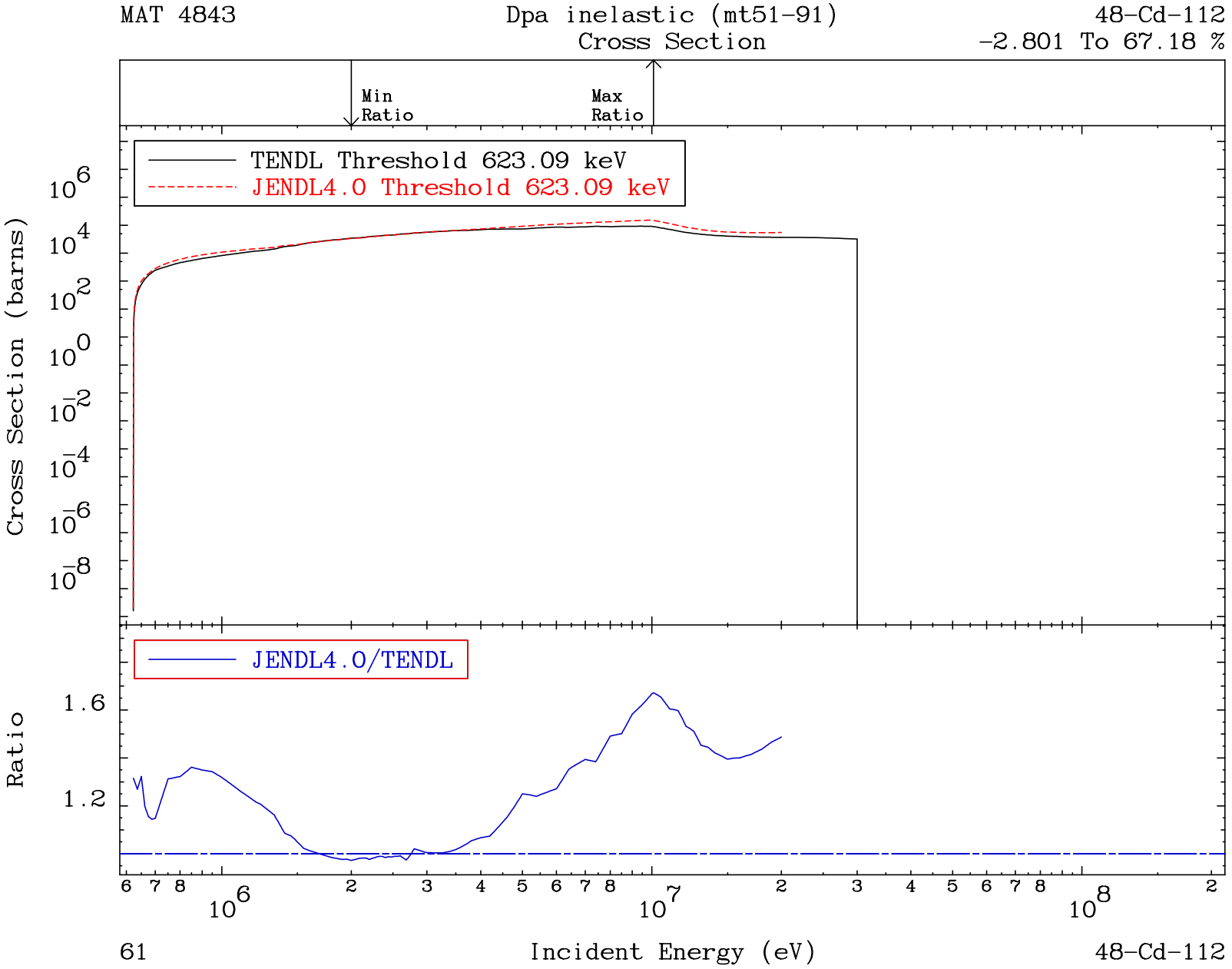

MAT 4843
Kerma capture (mt102)
Cross Section
48-Cd-112
9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
56
48-Cd-112

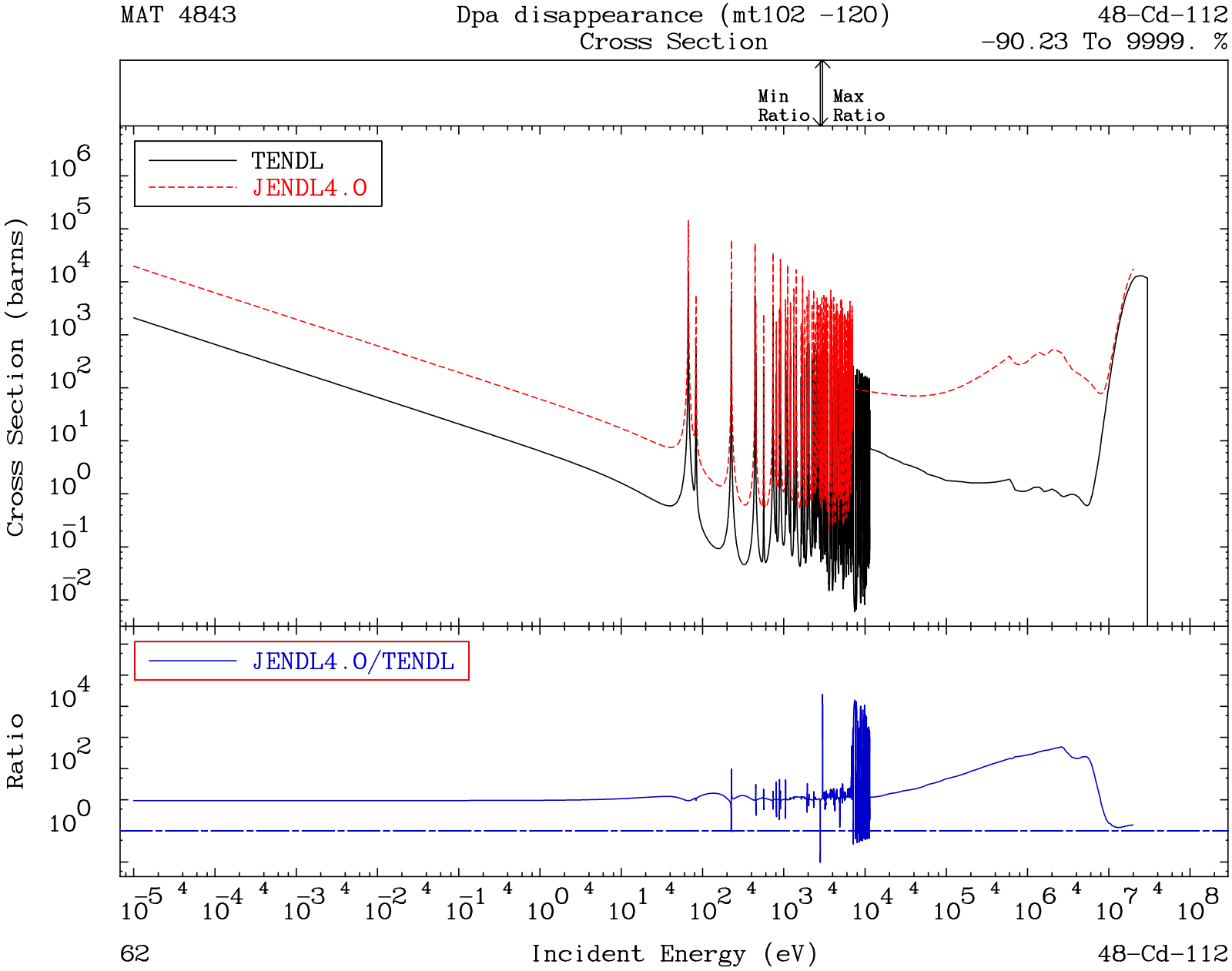

MAT 4843
Total photon (eV-barns)
Cross Section
48-Cd-112
-99.09 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
57
48-Cd-112


MAT 4843
Total kinematic kerma (high limit)
Cross Section
48-Cd-112
-94.54 To 6974. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
58
48-Cd-112


MAT 4843
Dpa total (eV-barns)
Cross Section
48-Cd-112
-94.54 To 9524. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
59
Incident Energy (eV)
48-Cd-112


MAT 4843
Dpa elastic (mt2)
Cross Section
48-Cd-112
-94.92 To 4913. %
Max Ratio
Min Ratio
TENDL Threshold 672.77 eV
JENDL4.0 Threshold 701.23 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
60
48-Cd-112


MAT 4843
Dpa inelastic (mt51-91)
Cross Section
48-Cd-112
-2.801 To 67.18 %
Min Ratio
Max Ratio
TENDL Threshold 623.09 keV
JENDL4.0 Threshold 623.09 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
61
48-Cd-112


MAT 4843
Dpa disappearance (mt102 -120)
Cross Section
48-Cd-112
-90.23 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
62
48-Cd-112