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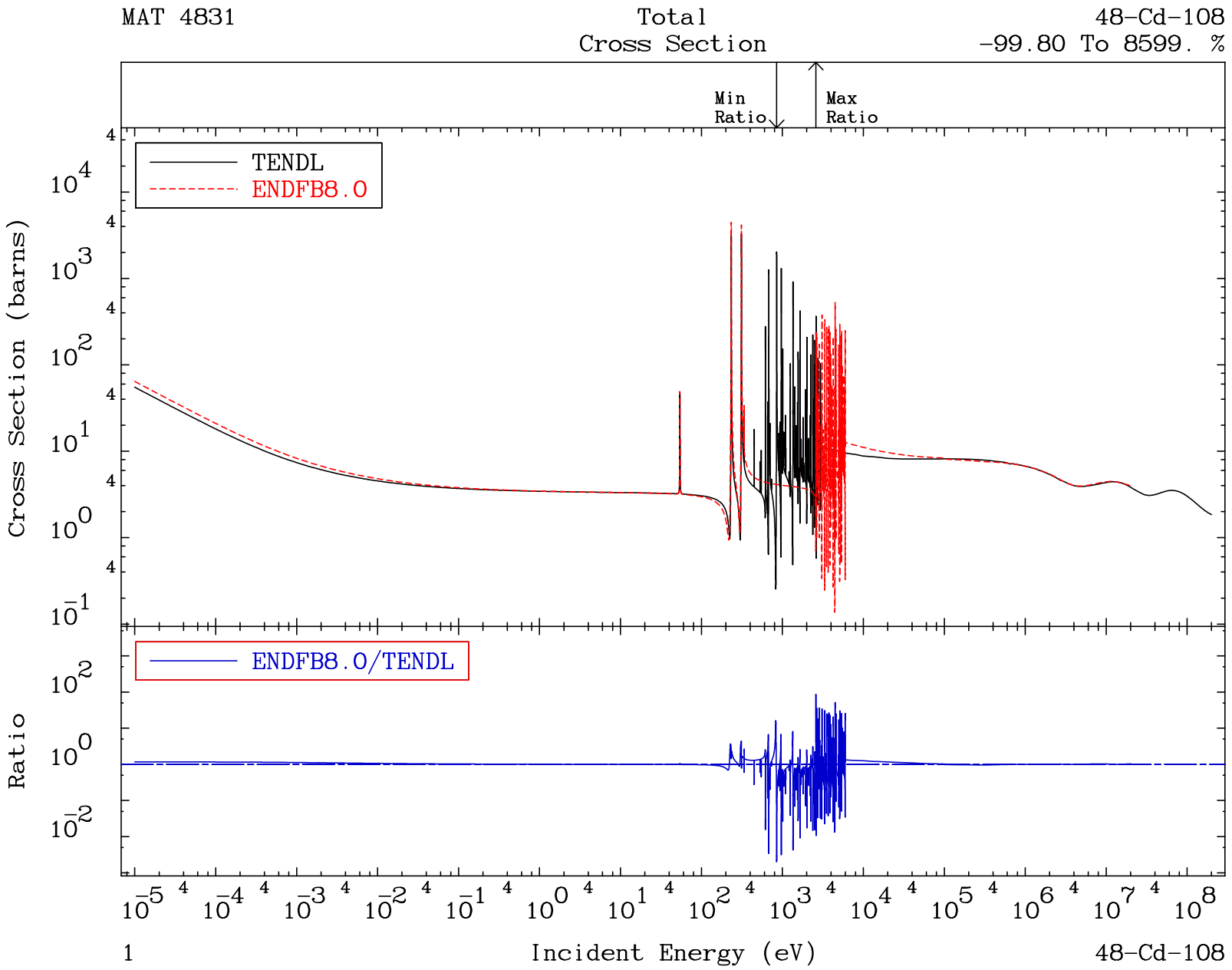
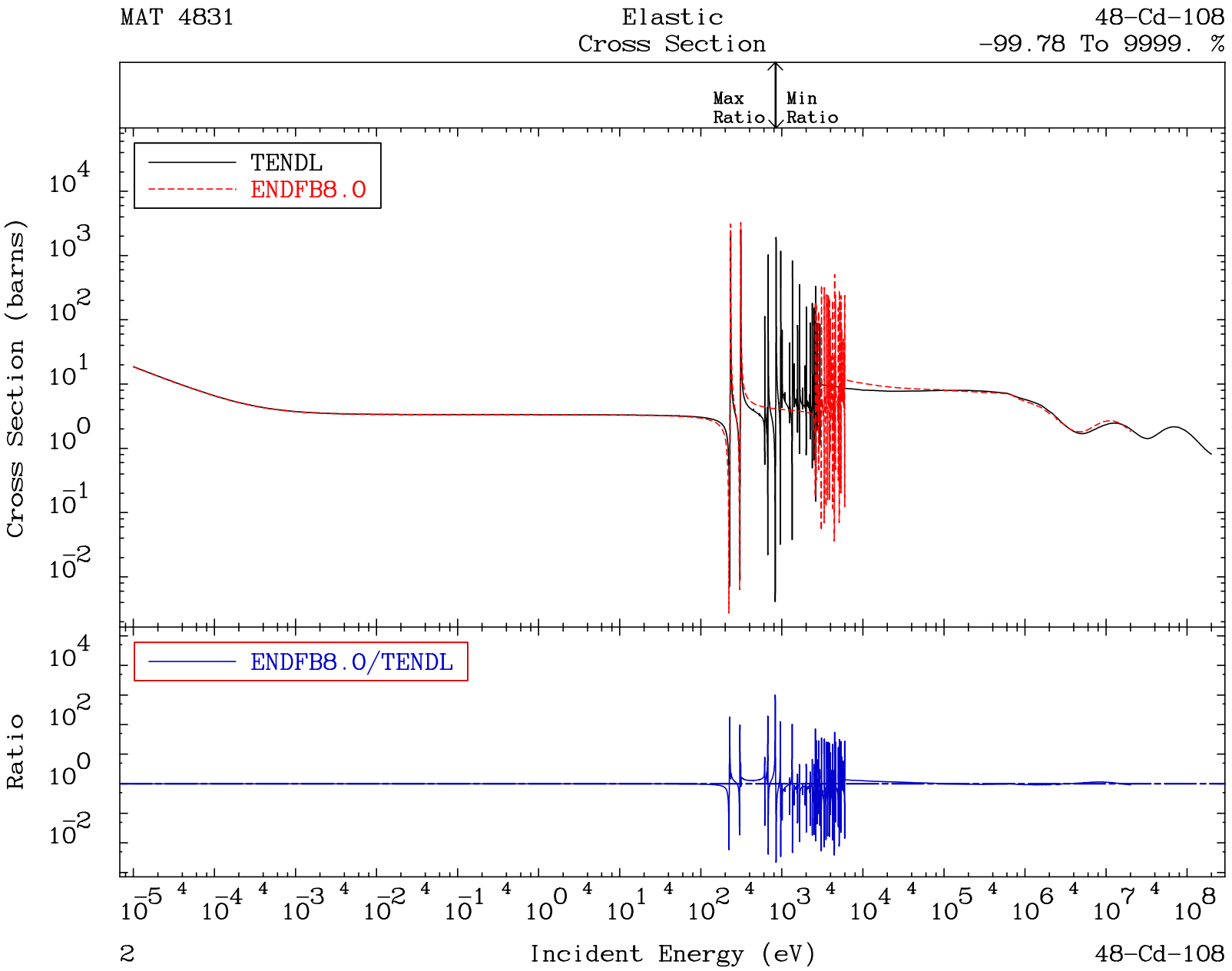
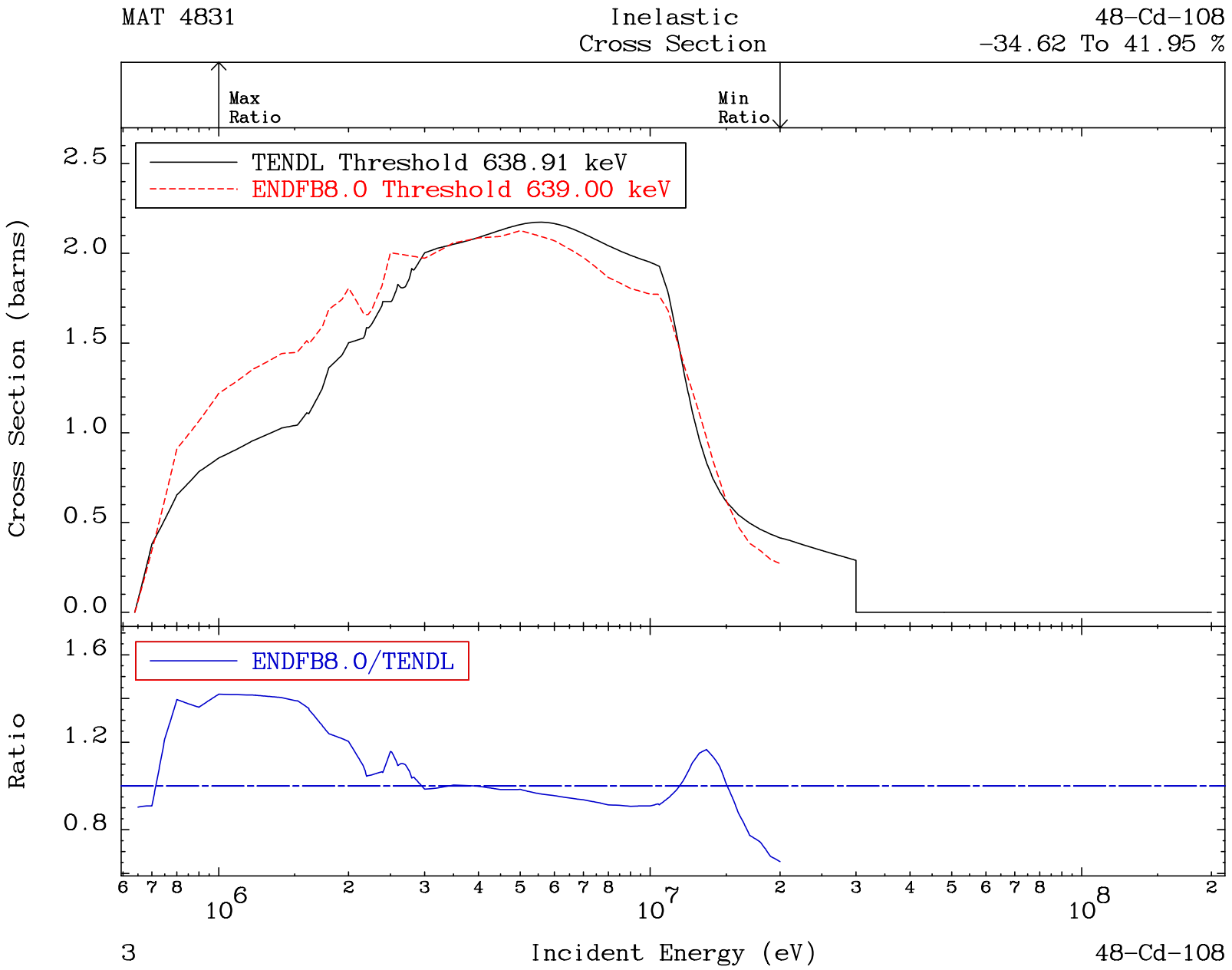
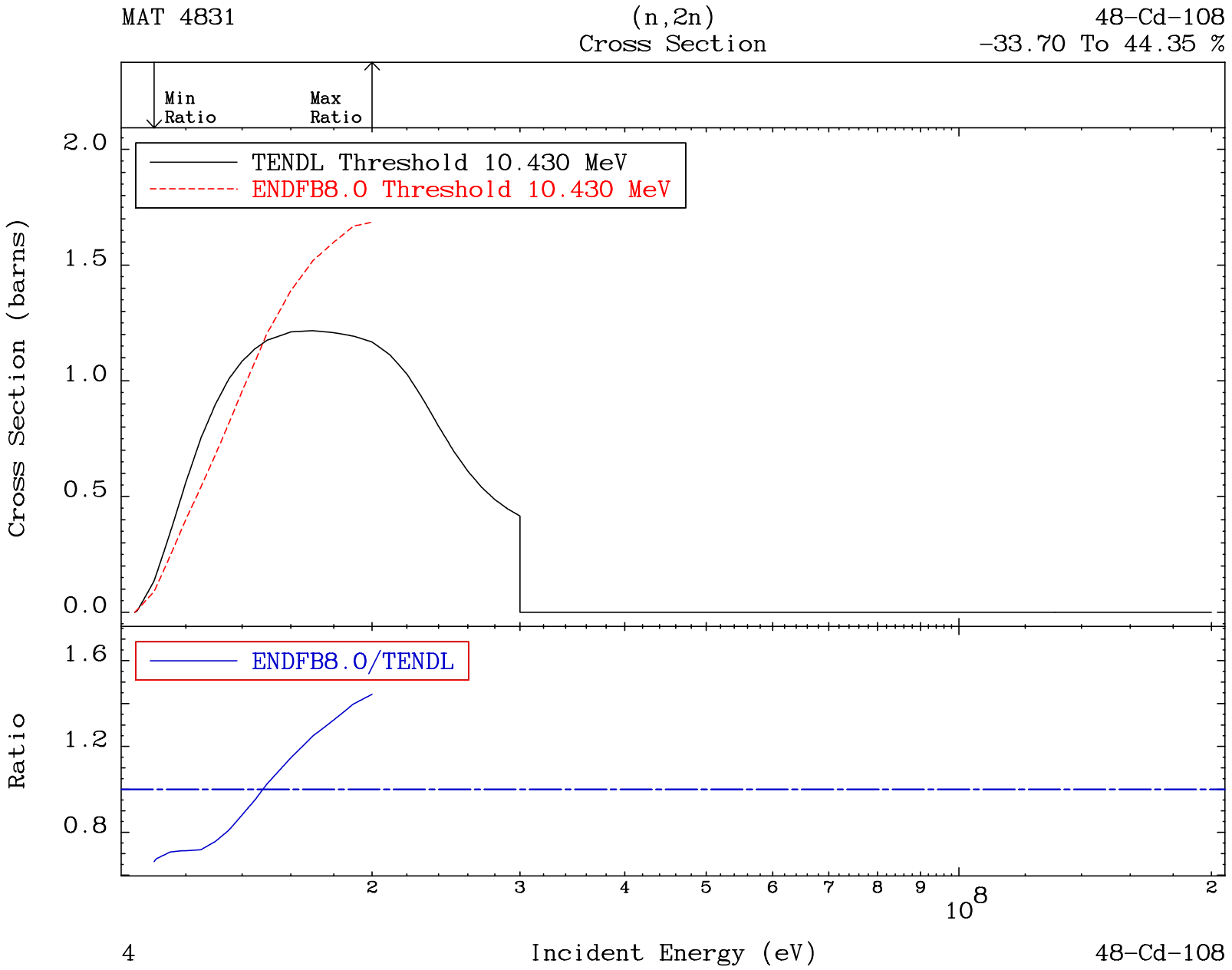
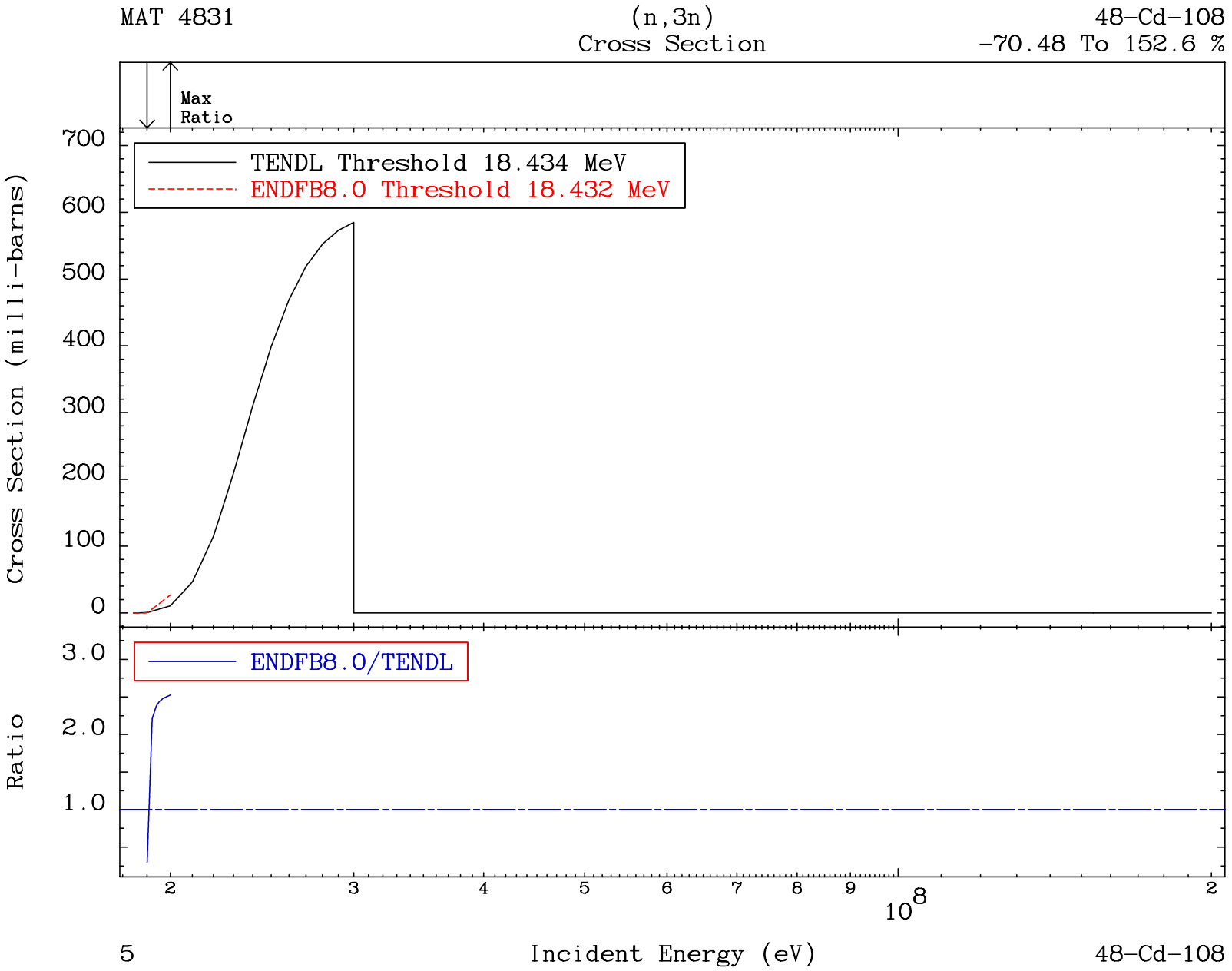
Press Mouse Button to Start

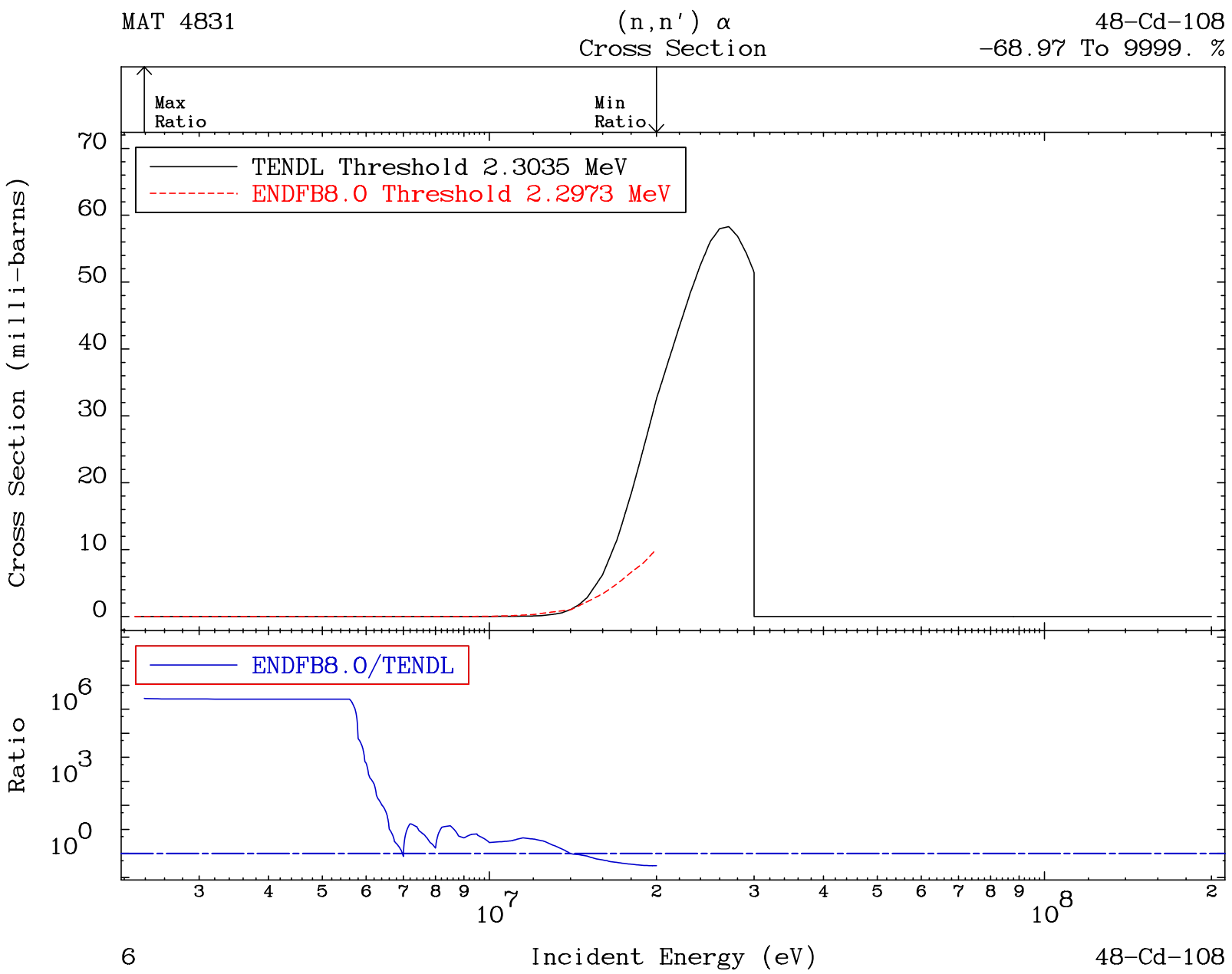

MAT 4831
Total
Cross Section
48-Cd-108
-99.80 To 8599. %
Min
Ratio
Max
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
1
48-Cd-108

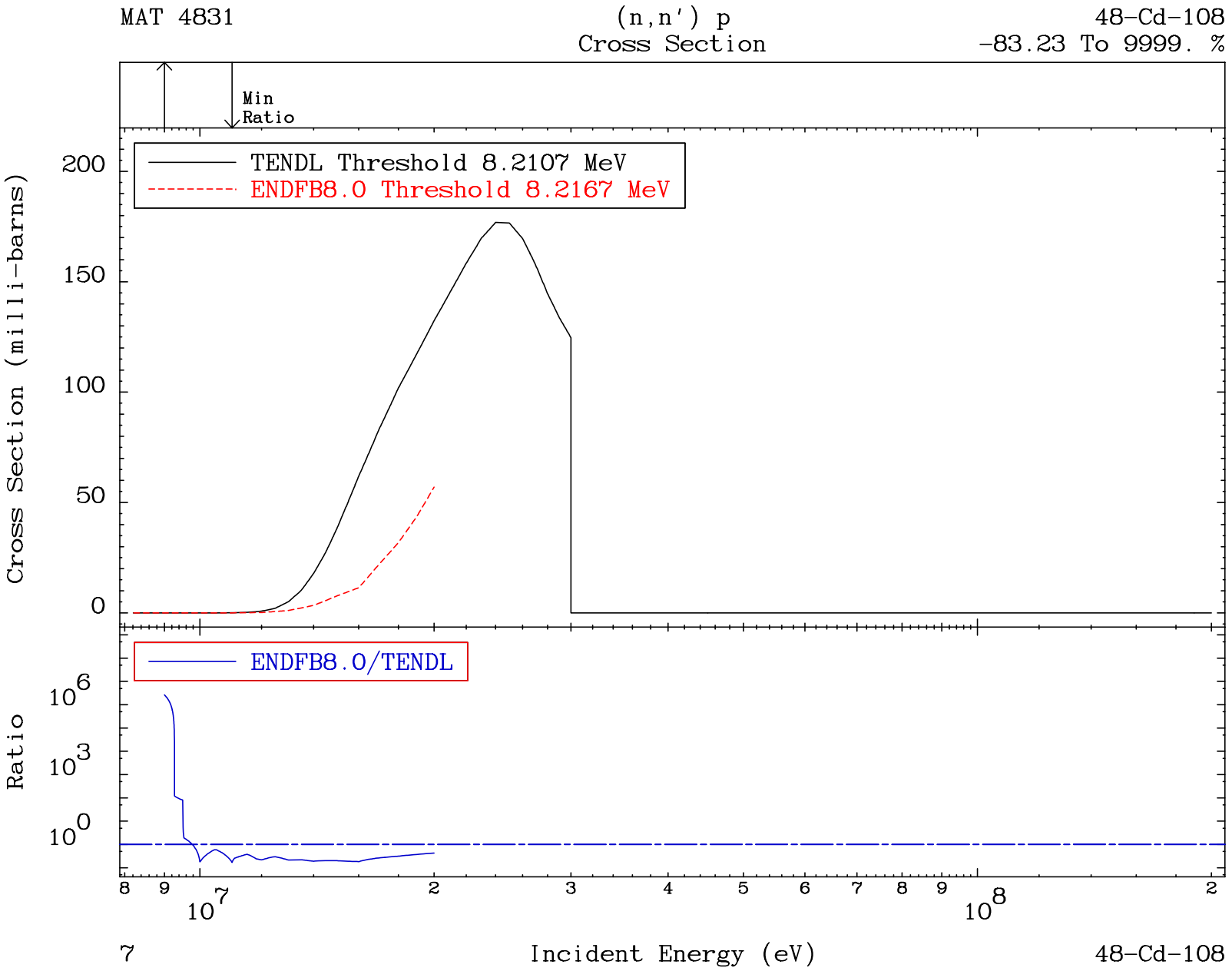

MAT 4831
Elastic
Cross Section
48-Cd-108
-99.78 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
2
48-Cd-108

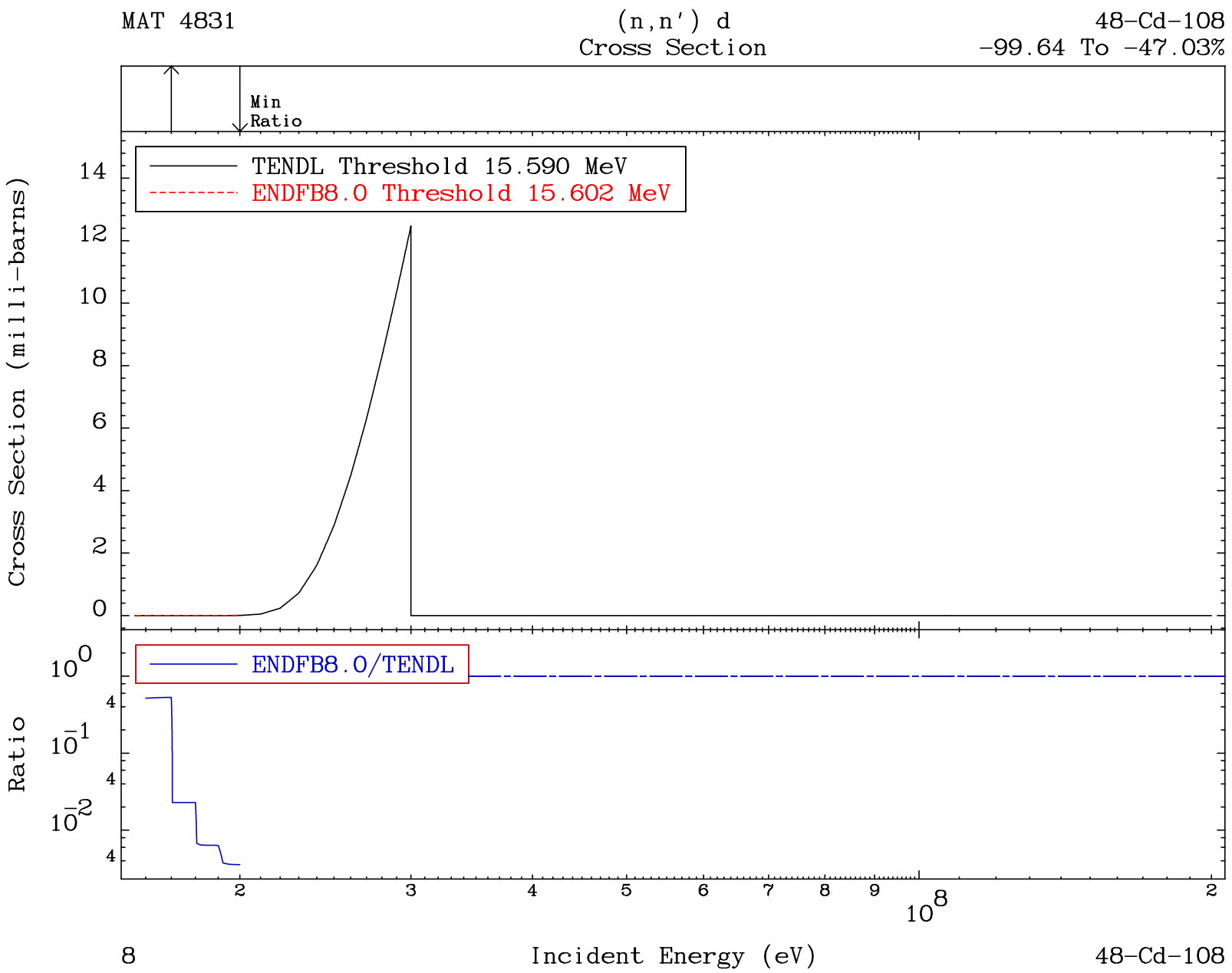

MAT 4831
Inelastic
Cross Section
48-Cd-108
-34.62 To 41.95 %
Max
Ratio
Min
Ratio
TENDL Threshold 638.91 keV
ENDFB8.0 Threshold 639.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
6 7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
48-Cd-108

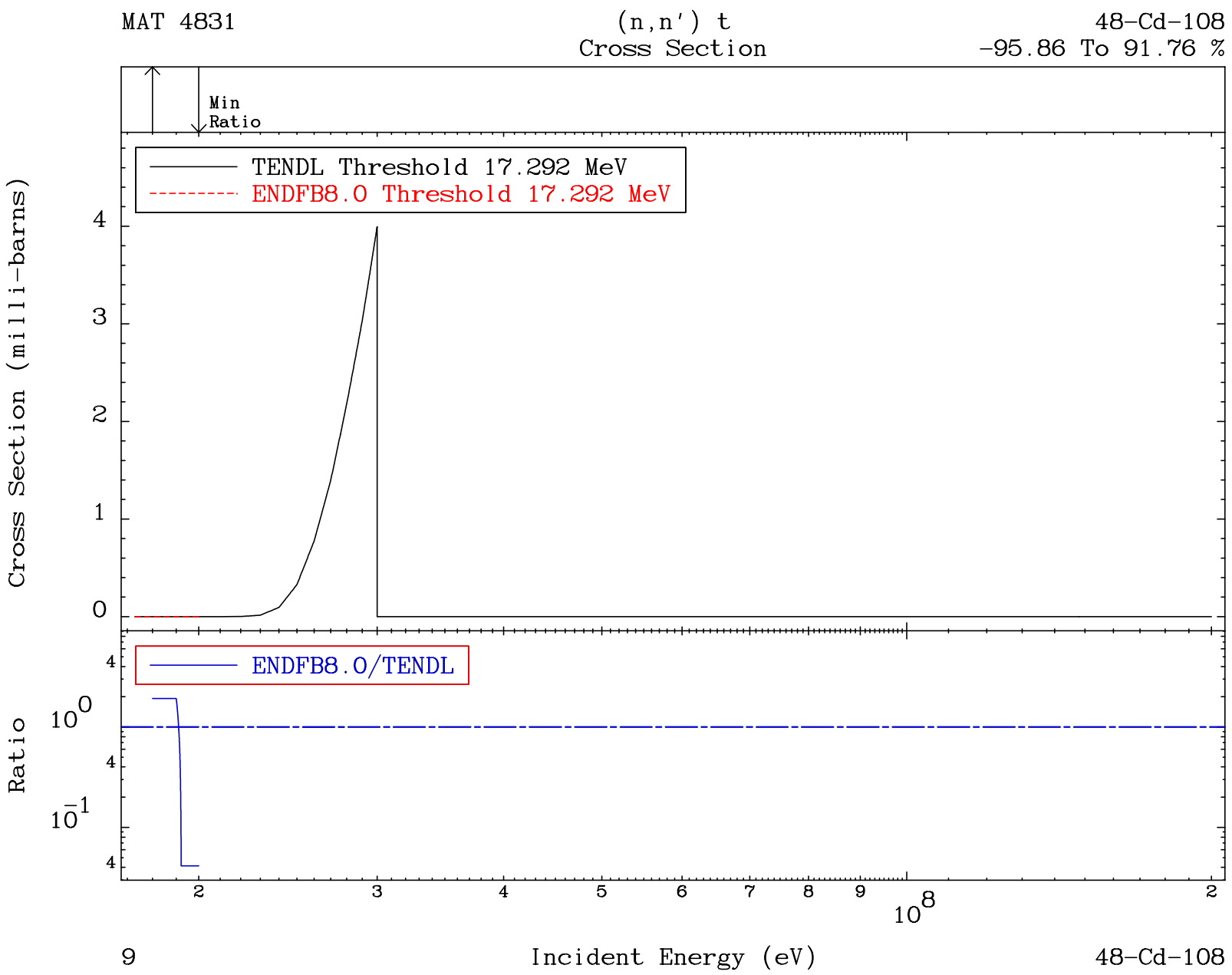

MAT 4831
(n,2n)
Cross Section
48-Cd-108
-33.70 To 44.35 %
Min Ratio
Max Ratio
TENDL Threshold 10.430 MeV
ENDFB8.0 Threshold 10.430 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
48-Cd-108

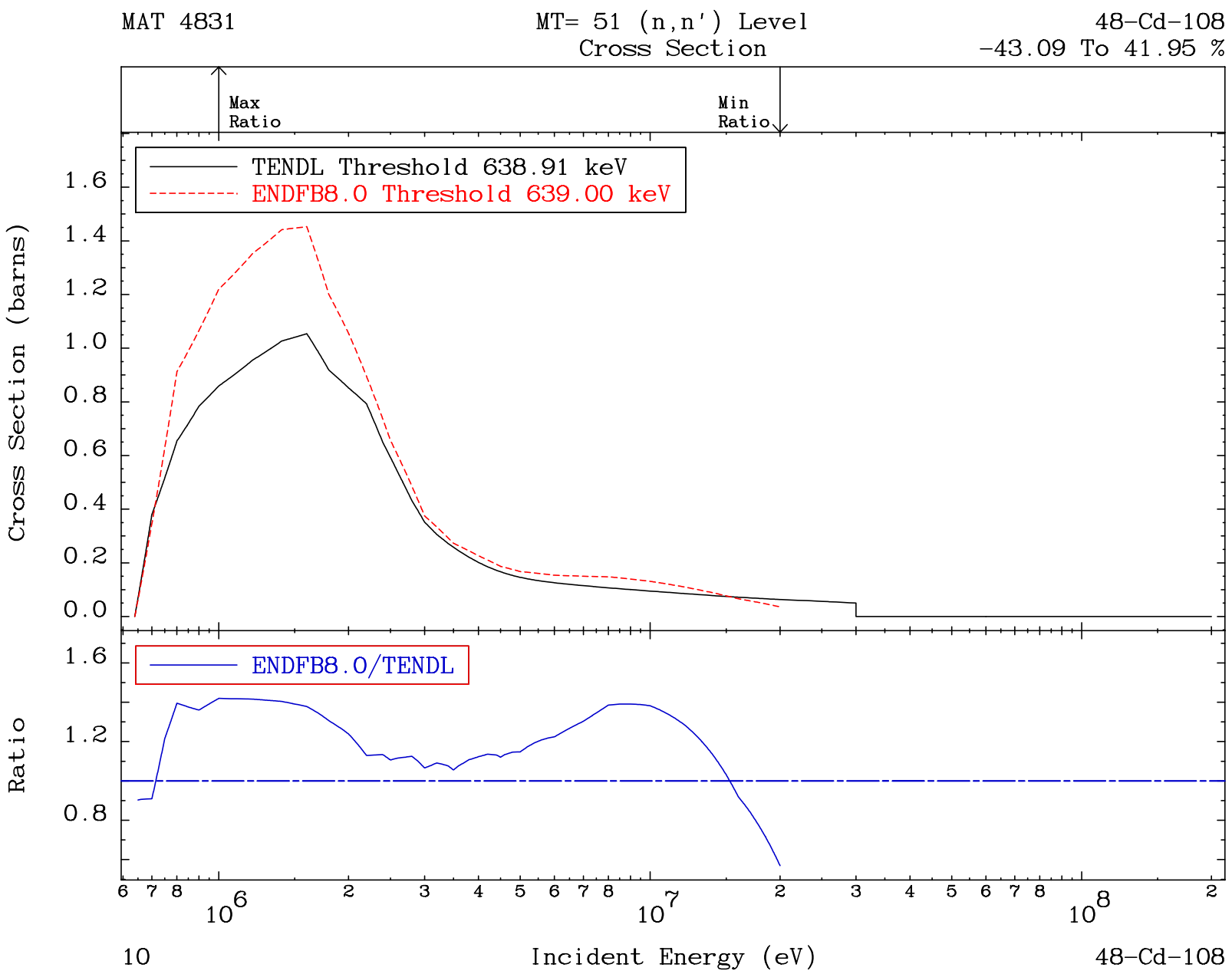

MAT 4831
(n,3n)
Cross Section
48-Cd-108
-70.48 To 152.6 %
Max
Ratio
TENDL Threshold 18.434 MeV
ENDFB8.0 Threshold 18.432 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
ENDFB8.0/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
48-Cd-108

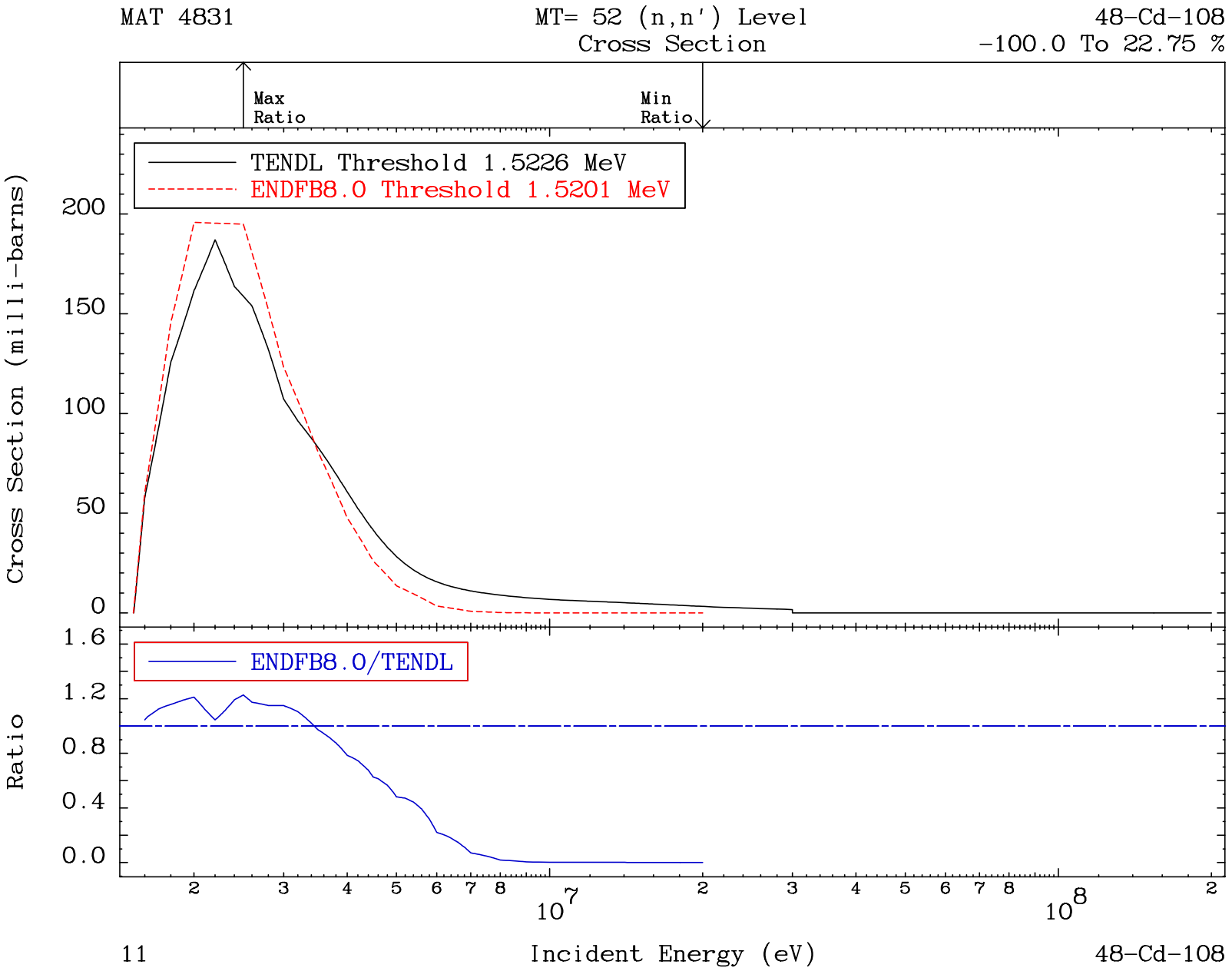

MAT 4831
(n,n') α
Cross Section
48-Cd-108
-68.97 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.3035 MeV
ENDFB8.0 Threshold 2.2973 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
10^6
10^3
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
48-Cd-108

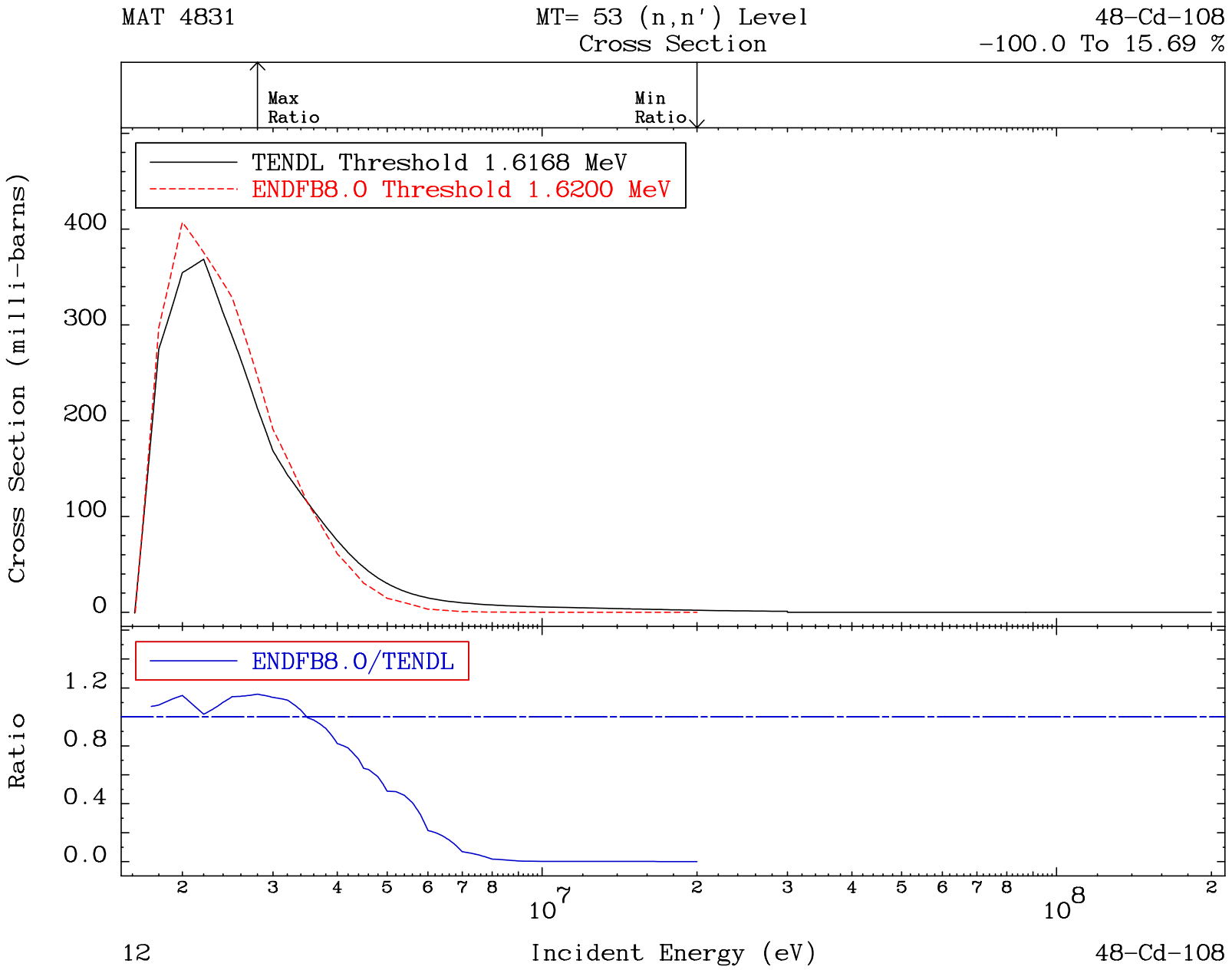

MAT 4831
(n,n') p
Cross Section
48-Cd-108
-83.23 To 9999. %
Min
Ratio
TENDL Threshold 8.2107 MeV
ENDFB8.0 Threshold 8.2167 MeV
Cross Section (milli-barns)
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
10^6
10^3
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
48-Cd-108

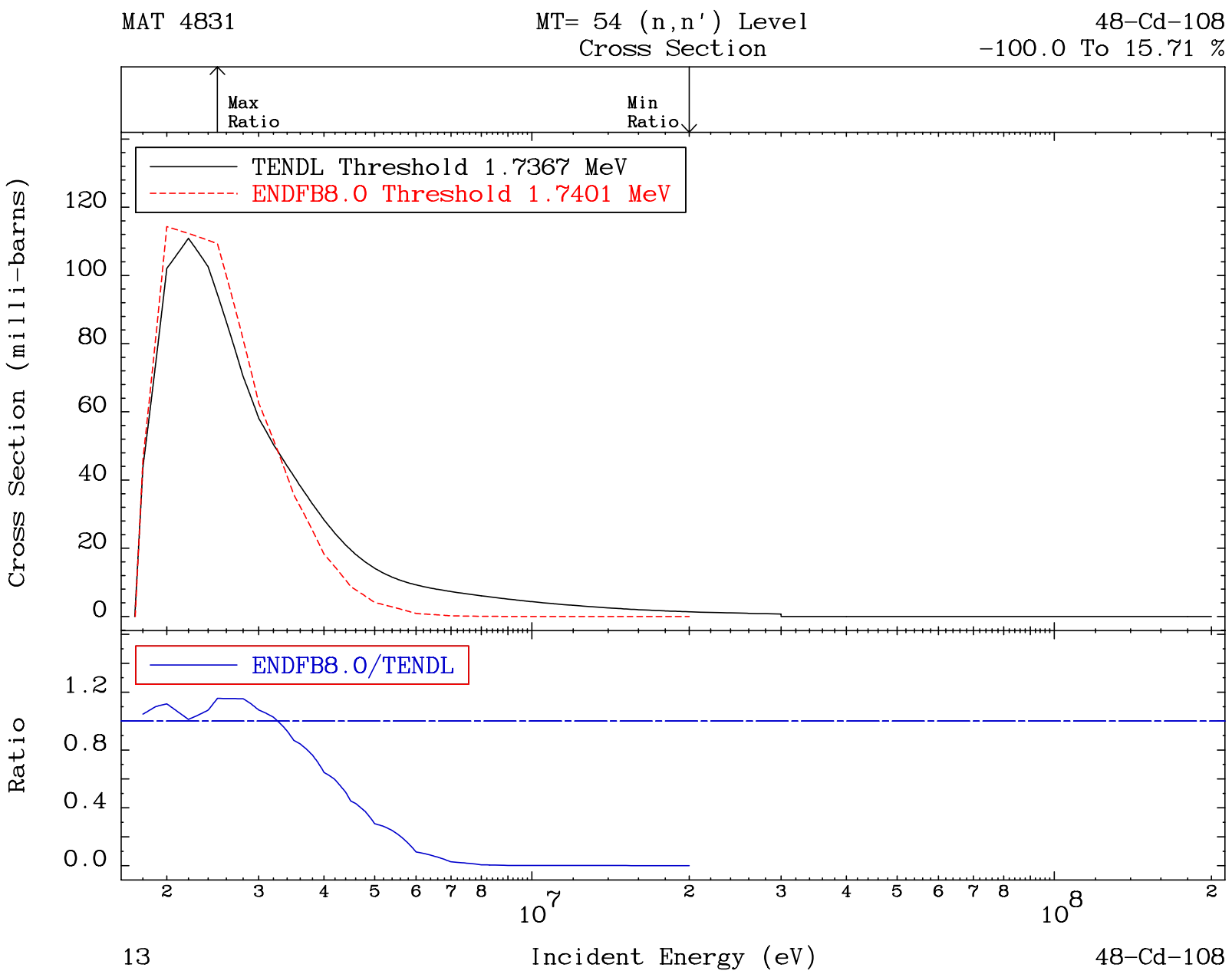

MAT 4831
(n,n') d
Cross Section
48-Cd-108
-99.64 To -47.03%
Min
Ratio
TENDL Threshold 15.590 MeV
ENDFB8.0 Threshold 15.602 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
ENDFB8.0/TENDL
Ratio
10^0
10^-1
10^-2
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
48-Cd-108

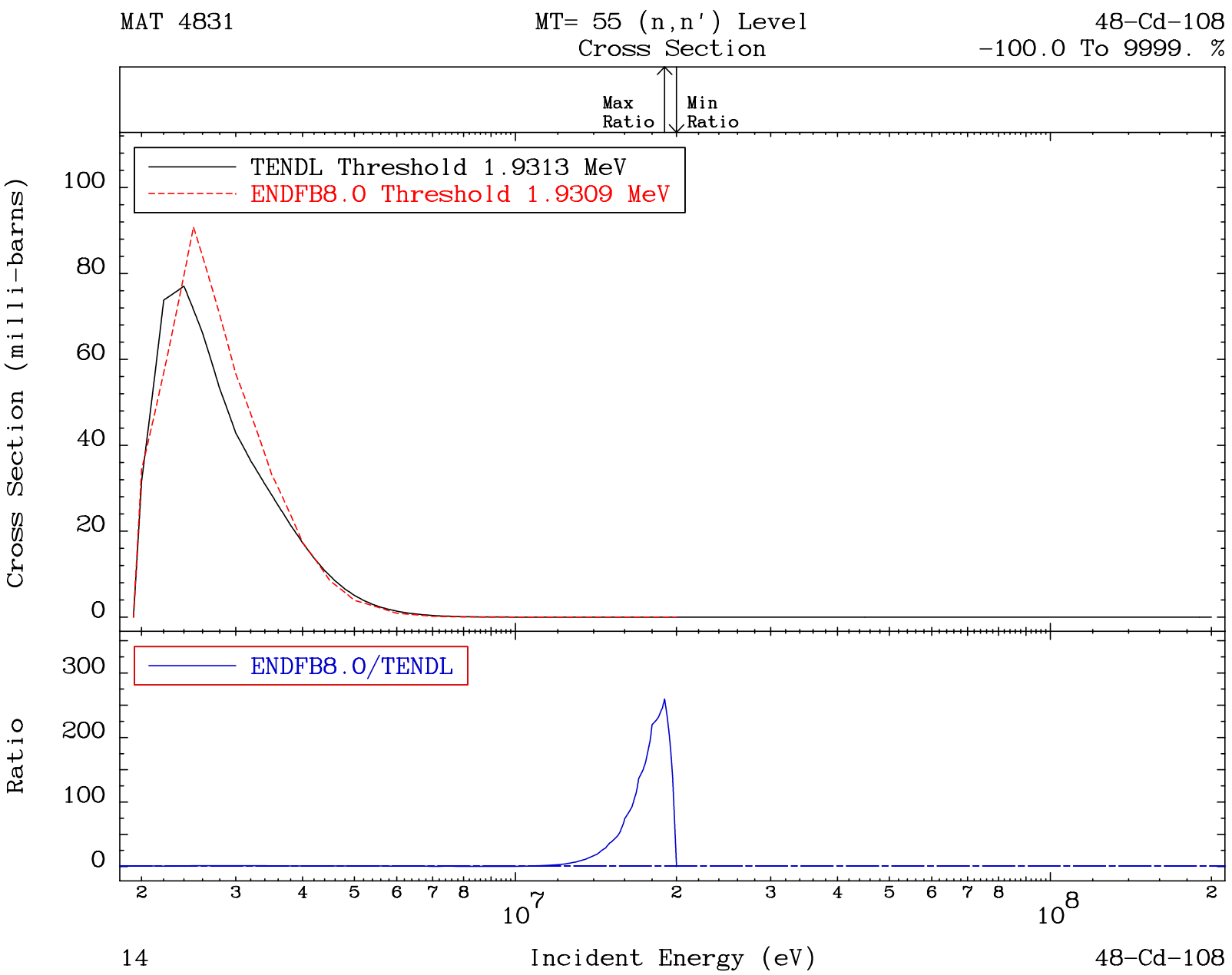

MAT 4831
(n,n') t
Cross Section
48-Cd-108
-95.86 To 91.76 %
Min
Ratio
TENDL Threshold 17.292 MeV
ENDFB8.0 Threshold 17.292 MeV
Cross Section (milli-barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
9
48-Cd-108

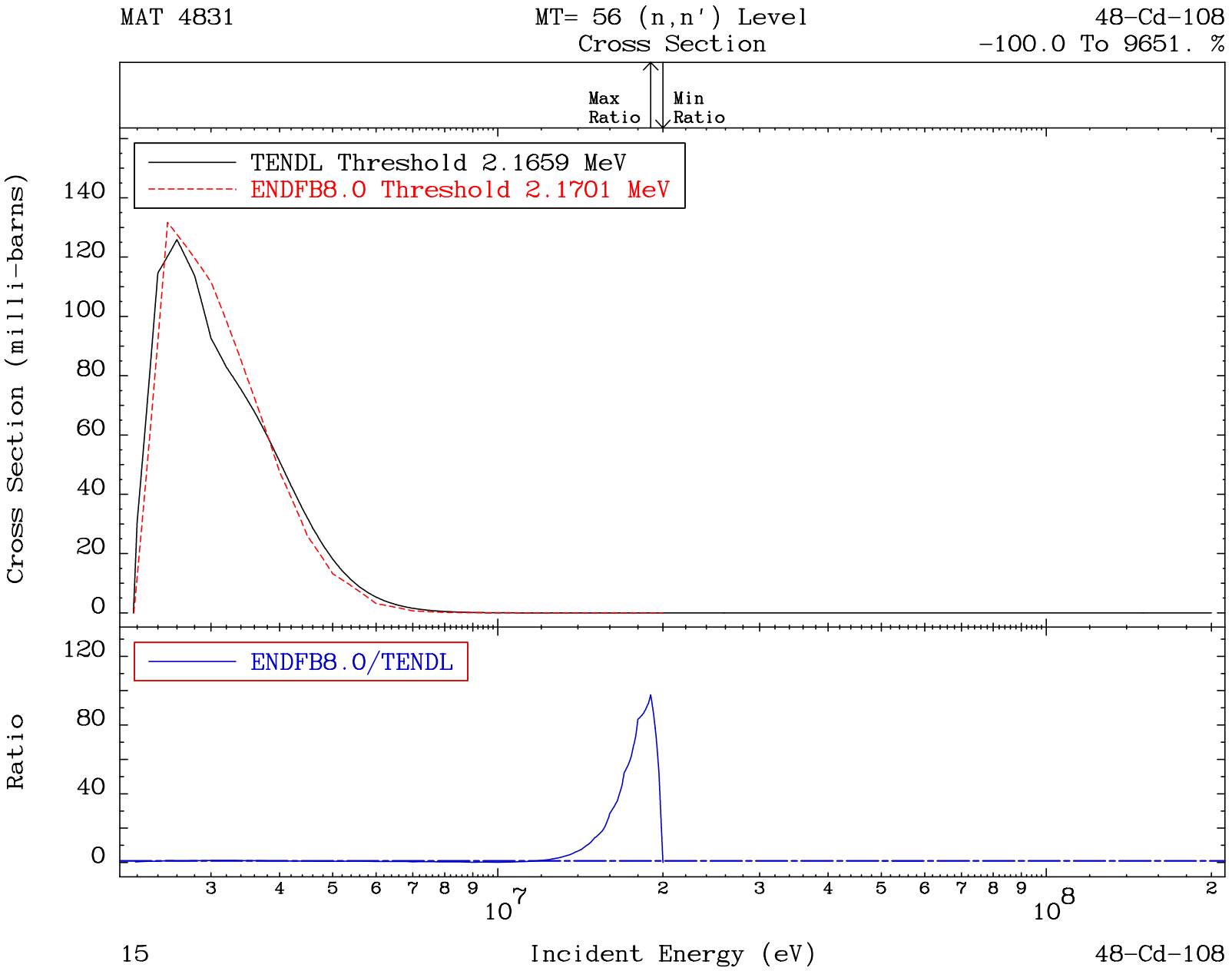

MAT 4831
MT= 51 (n,n') Level
Cross Section
48-Cd-108
-43.09 To 41.95 %
Max
Ratio
Min
Ratio
TENDL Threshold 638.91 keV
ENDFB8.0 Threshold 639.00 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
48-Cd-108

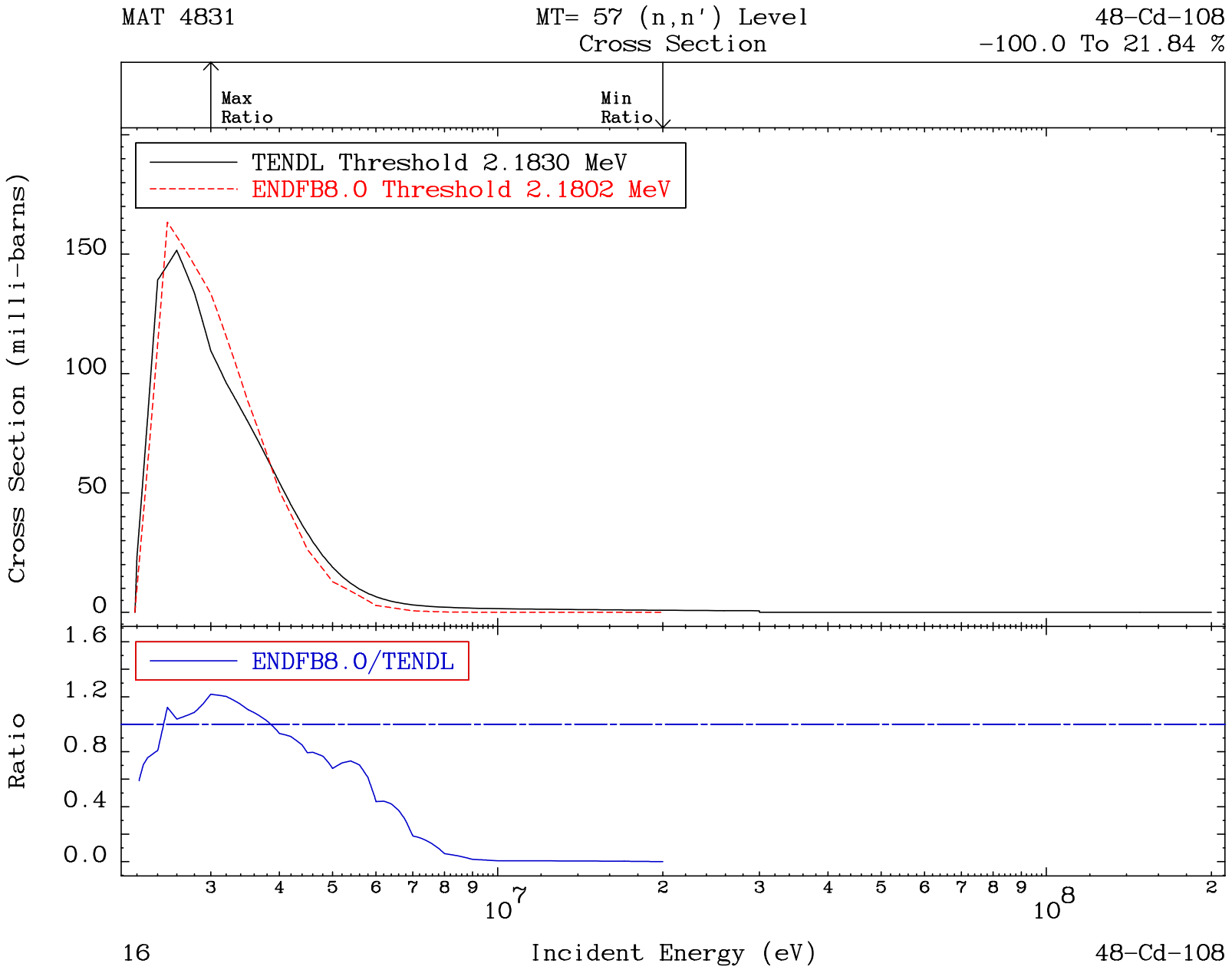

MAT 4831
MT= 52 (n,n') Level
Cross Section
48-Cd-108
-100.0 To 22.75 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.5226 MeV
ENDFB8.0 Threshold 1.5201 MeV
Cross Section (milli-barns)
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
11
Incident Energy (eV)
48-Cd-108

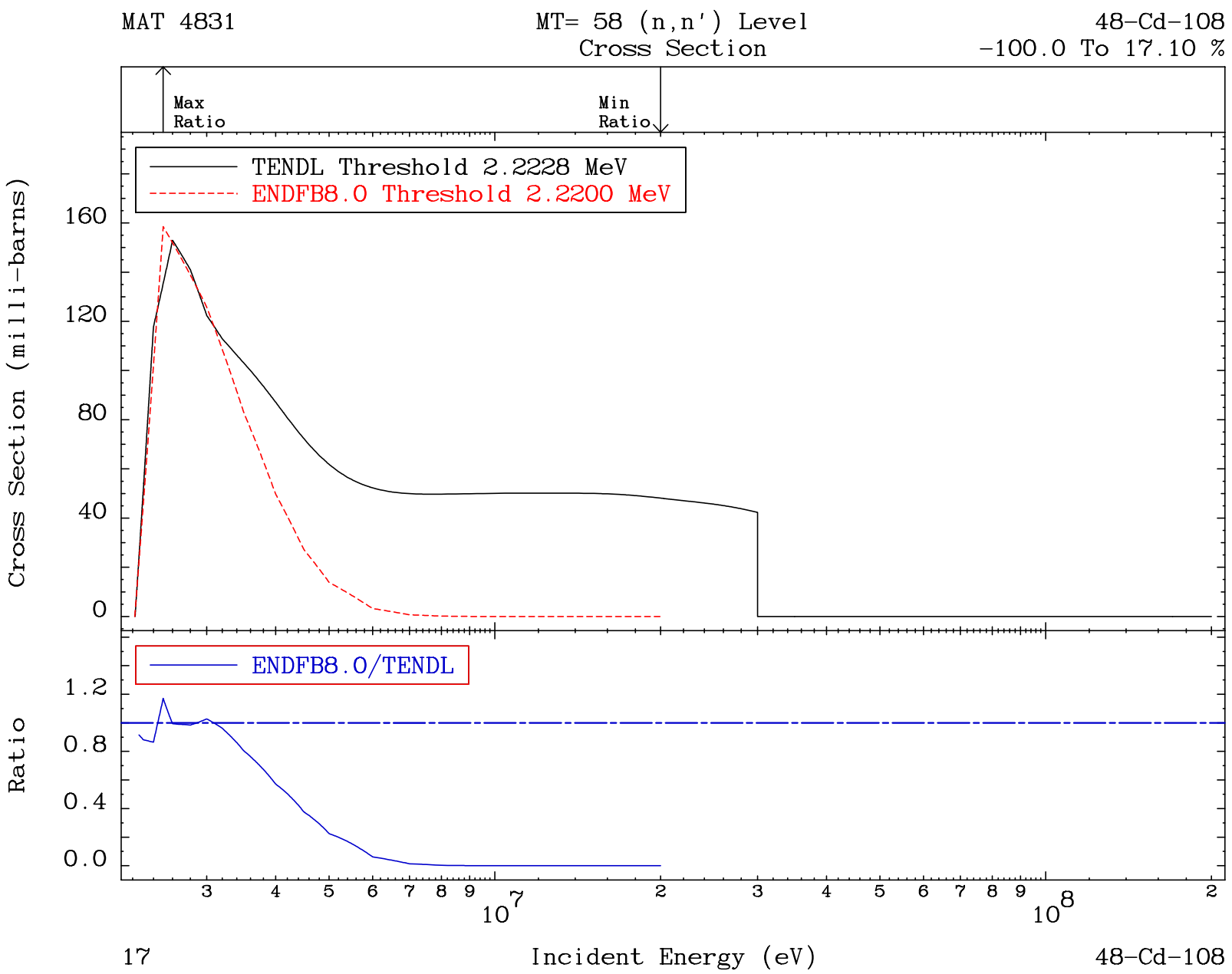

MAT 4831
MT= 53 (n,n') Level
Cross Section
48-Cd-108
-100.0 To 15.69 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.6168 MeV
ENDFB8.0 Threshold 1.6200 MeV
Cross Section (milli-barns)
400
300
200
100
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
48-Cd-108

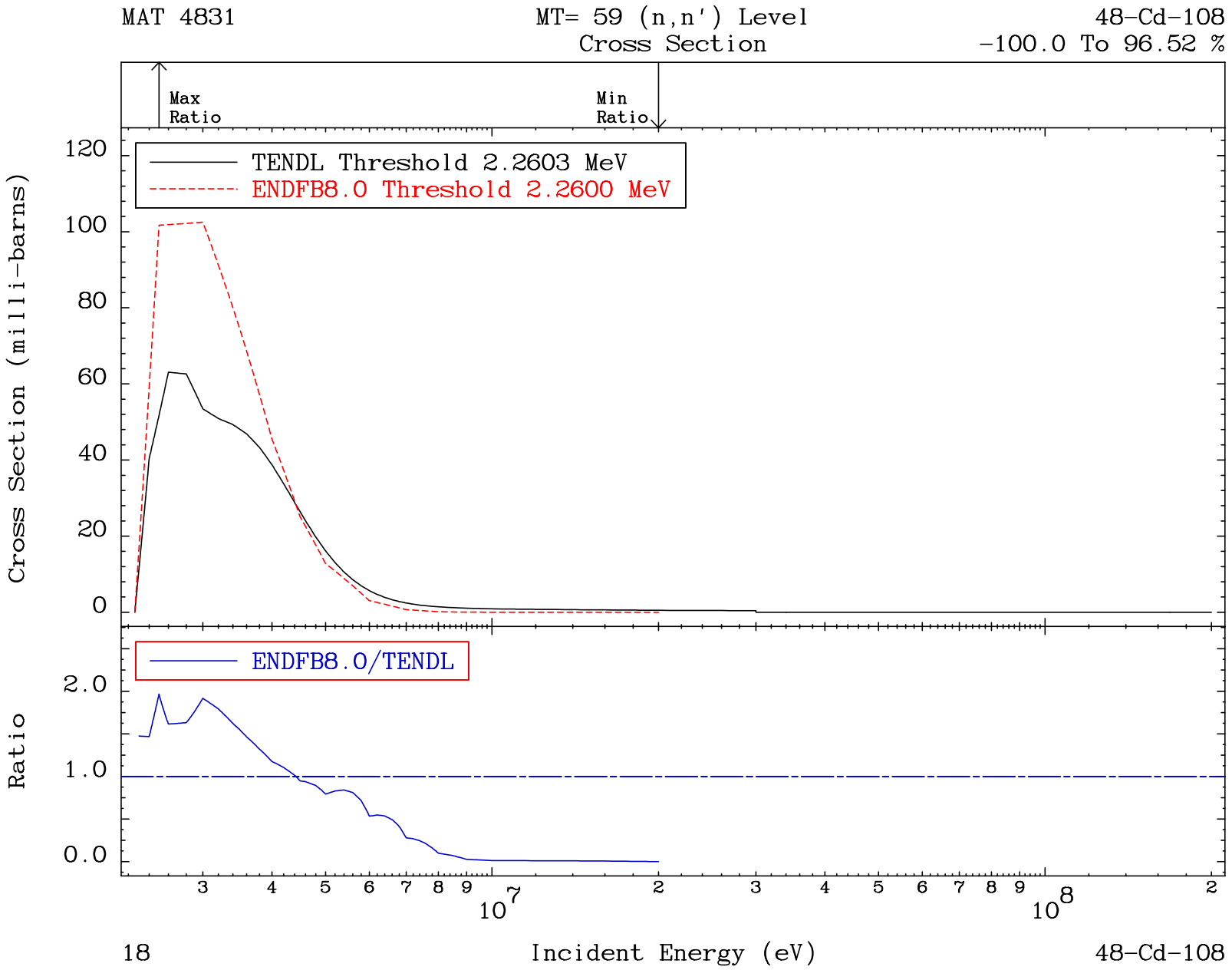

MAT 4831
MT= 54 (n,n') Level
Cross Section
48-Cd-108
-100.0 To 15.71 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.7367 MeV
ENDFB8.0 Threshold 1.7401 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
48-Cd-108

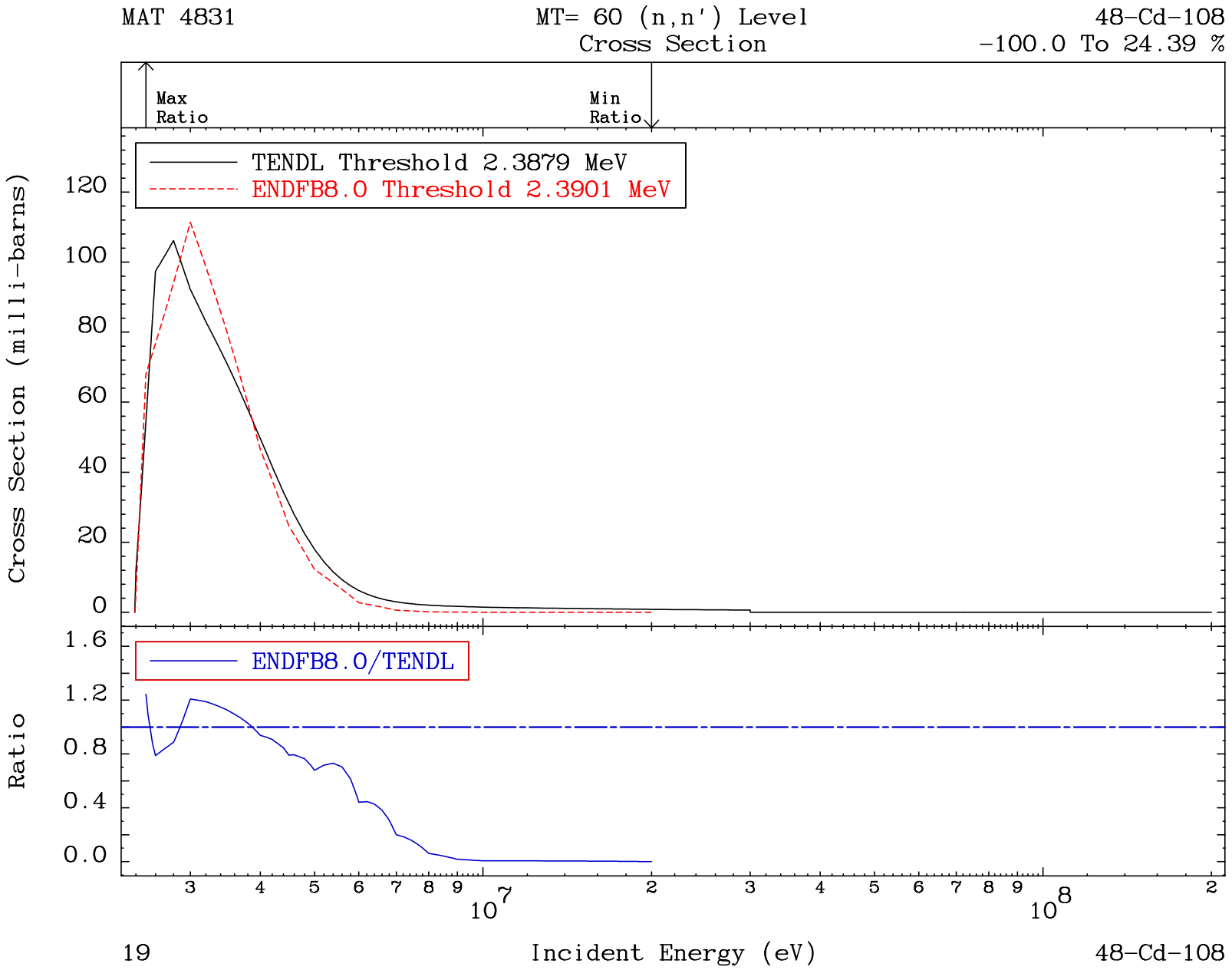

MAT 4831
MT= 55 (n,n') Level
Cross Section
48-Cd-108
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.9313 MeV
ENDFB8.0 Threshold 1.9309 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
300
200
100
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
48-Cd-108

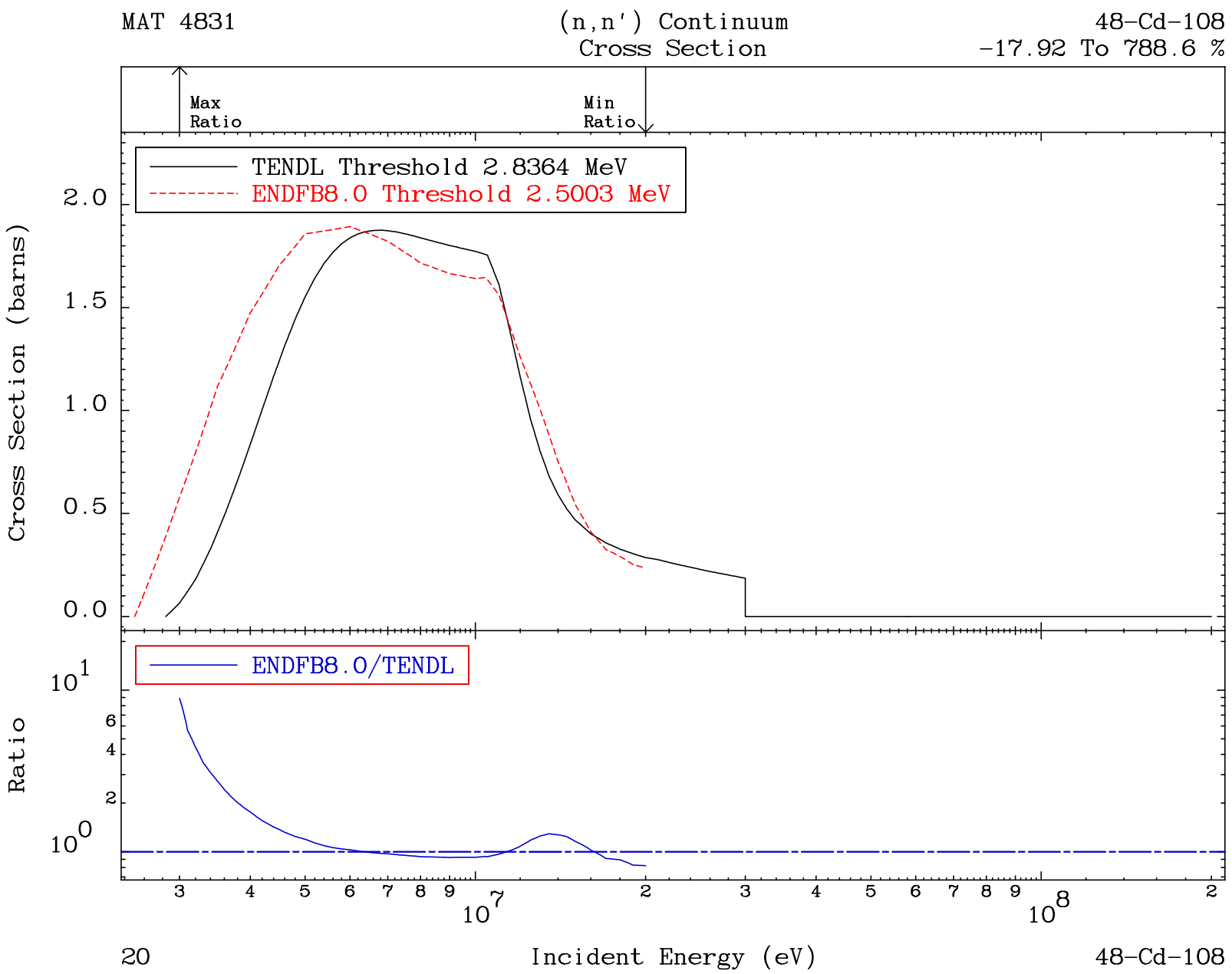

MAT 4831
MT= 56 (n,n') Level
Cross Section
48-Cd-108
-100.0 To 9651. %
Max Ratio
Min Ratio
TENDL Threshold 2.1659 MeV
ENDFB8.0 Threshold 2.1701 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
120
80
40
0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
48-Cd-108

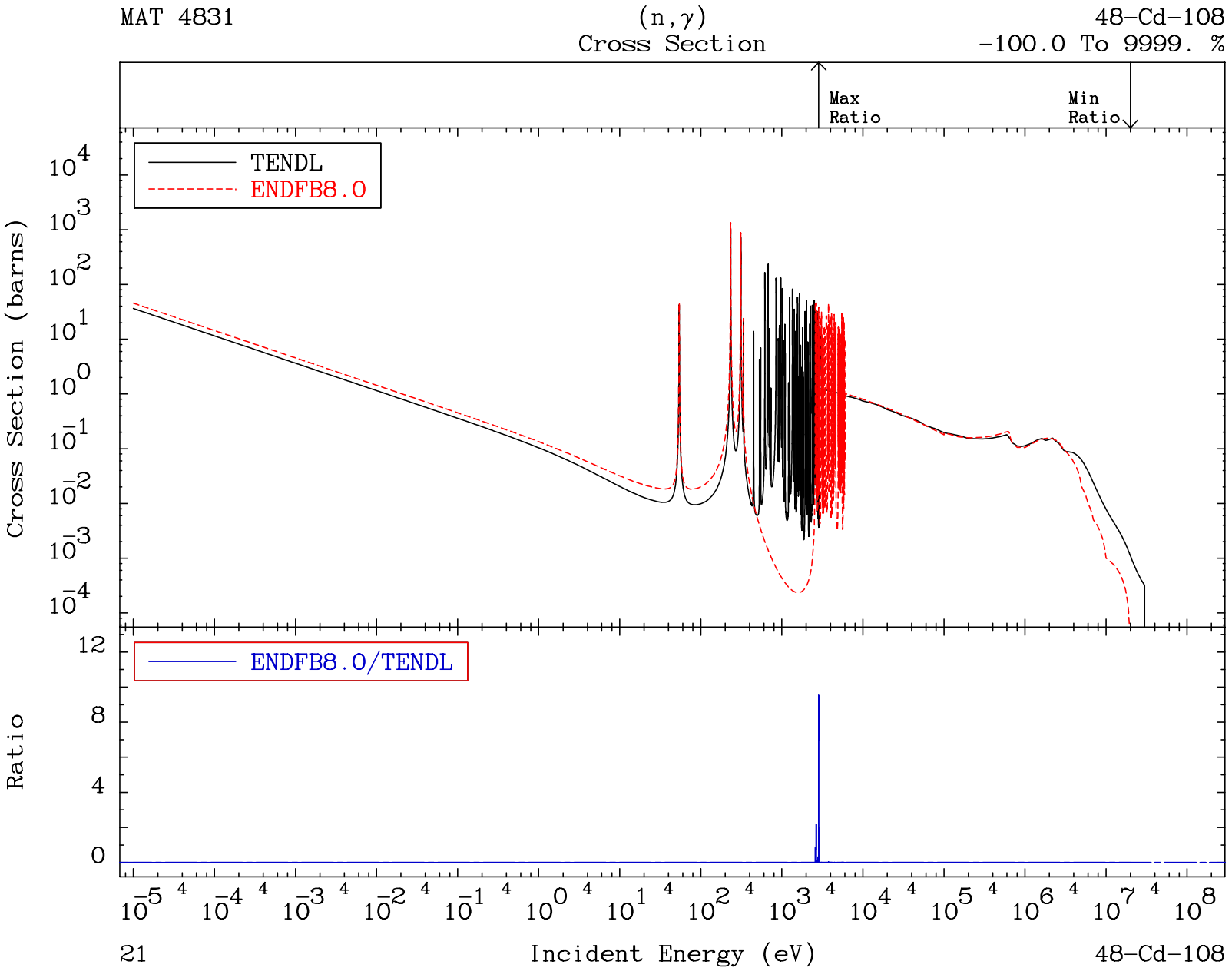

MAT 4831
MT= 57 (n,n') Level
Cross Section
48-Cd-108
-100.0 To 21.84 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.1830 MeV
ENDFB8.0 Threshold 2.1802 MeV
Cross Section (milli-barns)
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
0.0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
16
Incident Energy (eV)
48-Cd-108

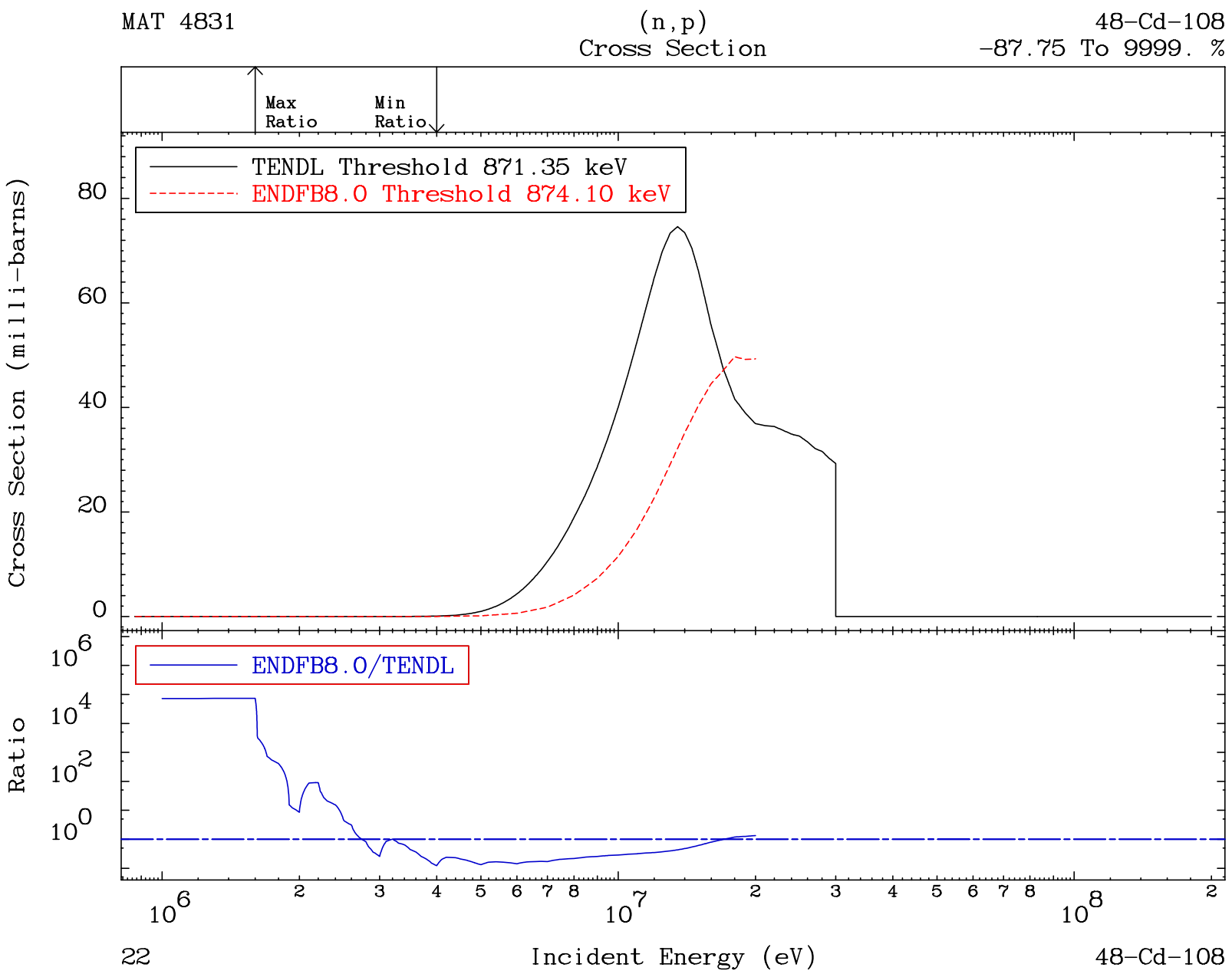

MAT 4831
MT= 58 (n,n') Level
Cross Section
48-Cd-108
-100.0 To 17.10 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.2228 MeV
ENDFB8.0 Threshold 2.2200 MeV
Cross Section (milli-barns)
160
120
80
40
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
0.0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
48-Cd-108

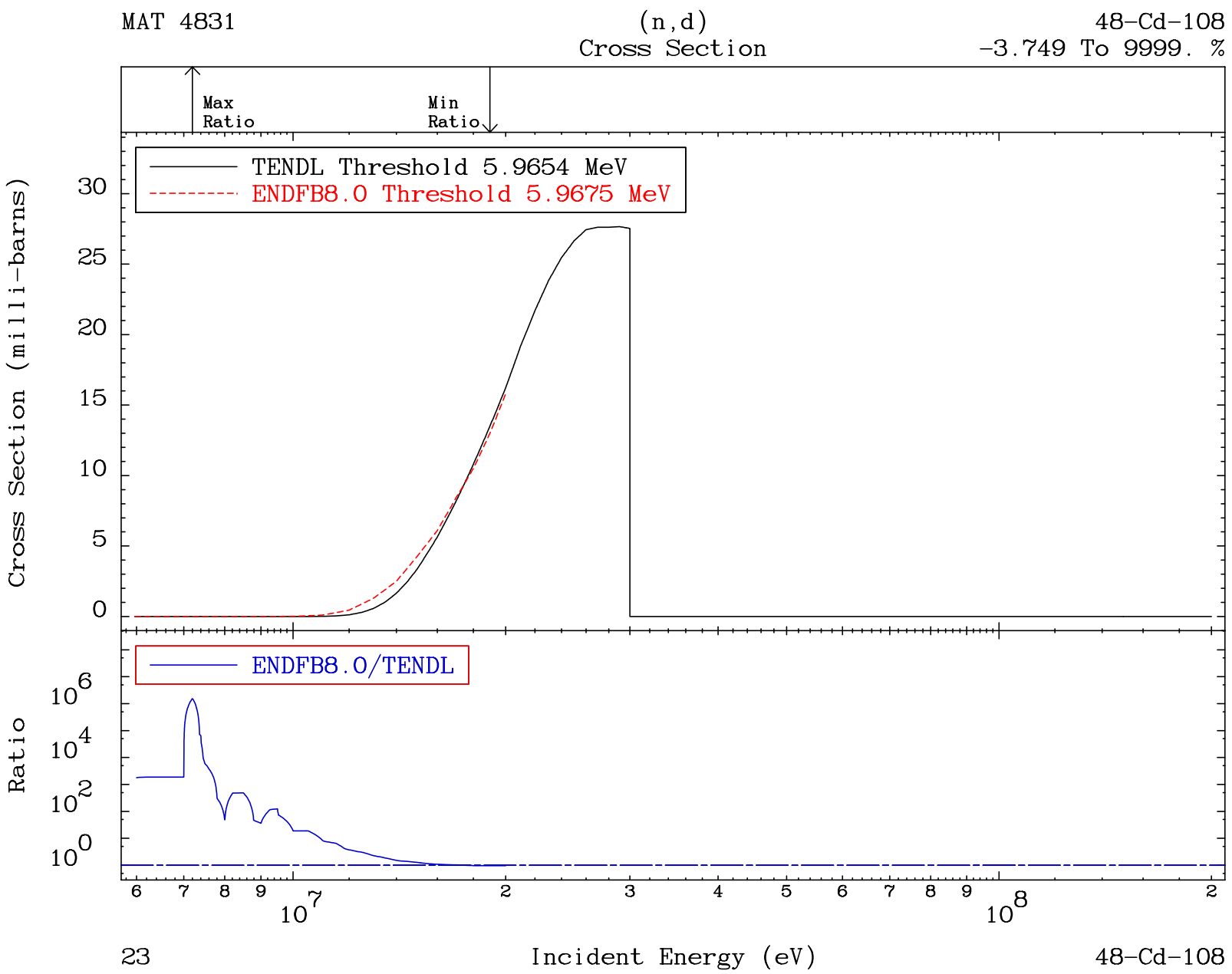

MAT 4831
MT= 59 (n,n') Level
Cross Section
48-Cd-108
-100.0 To 96.52 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.2603 MeV
ENDFB8.0 Threshold 2.2600 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
2.0
1.0
0.0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
48-Cd-108

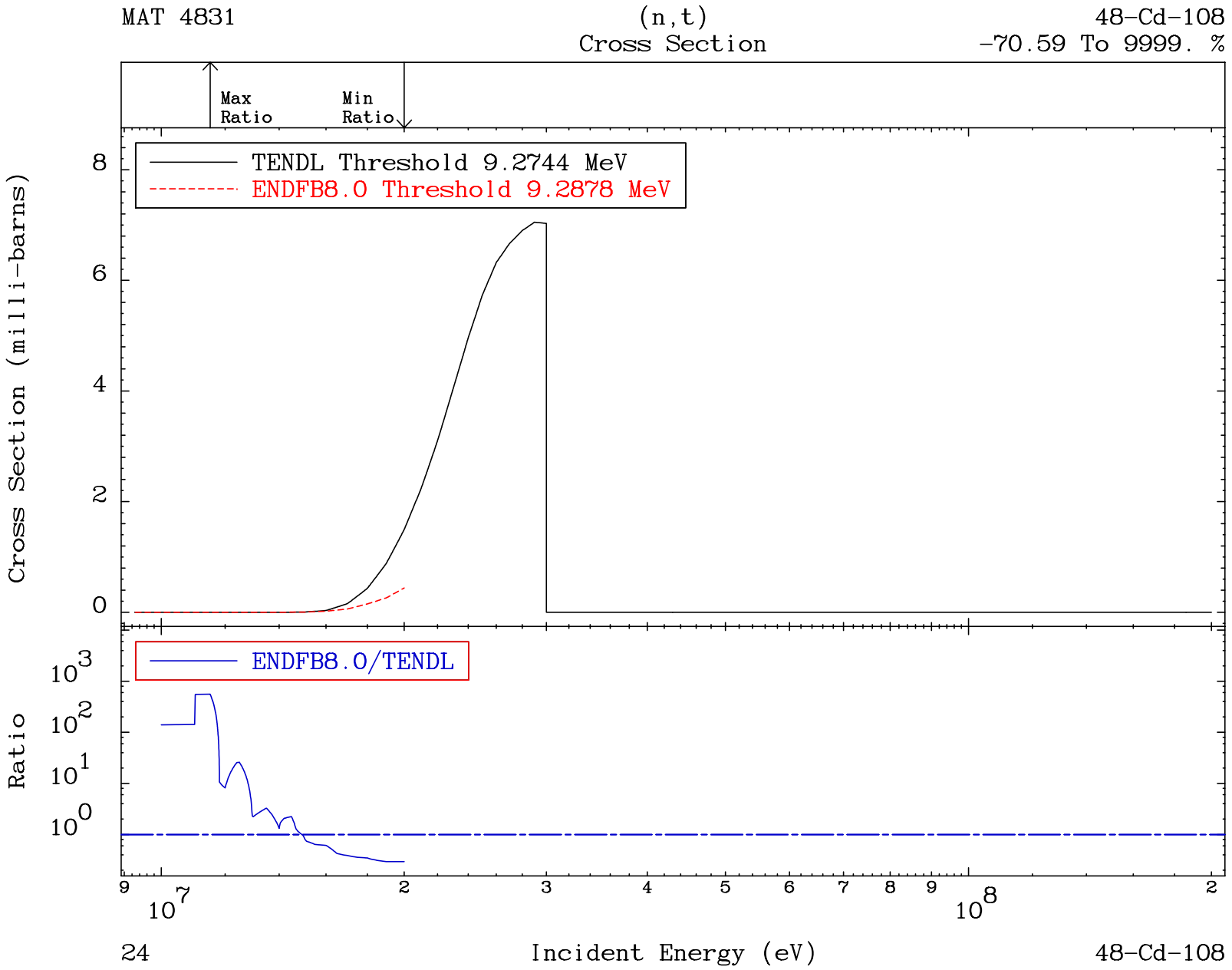

MAT 4831
MT= 60 (n,n') Level
Cross Section
48-Cd-108
-100.0 To 24.39 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.3879 MeV
ENDFB8.0 Threshold 2.3901 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
0.0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
48-Cd-108

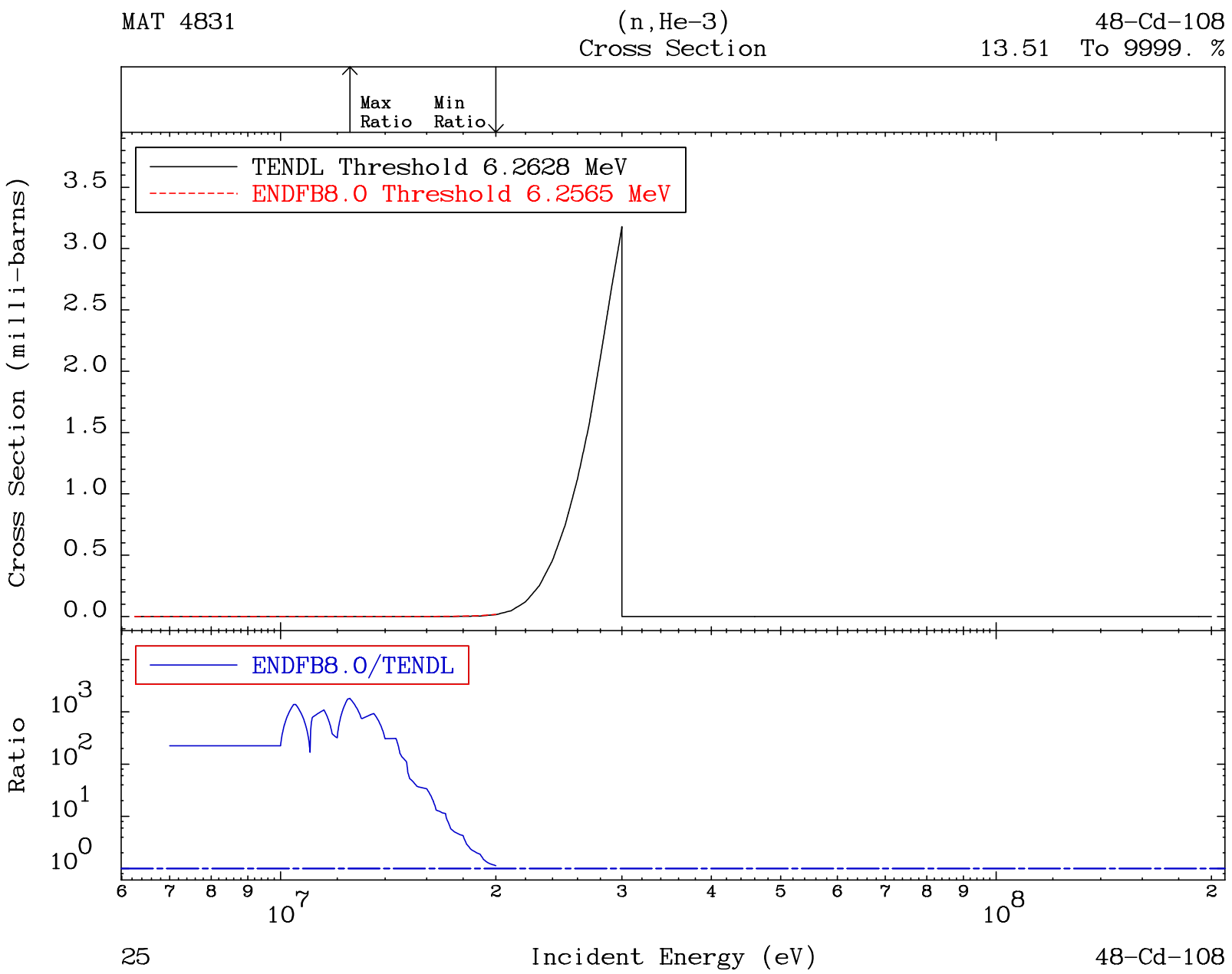

MAT 4831
(n,n') Continuum
Cross Section
48-Cd-108
-17.92 To 788.6 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.8364 MeV
ENDFB8.0 Threshold 2.5003 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
10^1
6
4
2
10^0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
20
Incident Energy (eV)
48-Cd-108

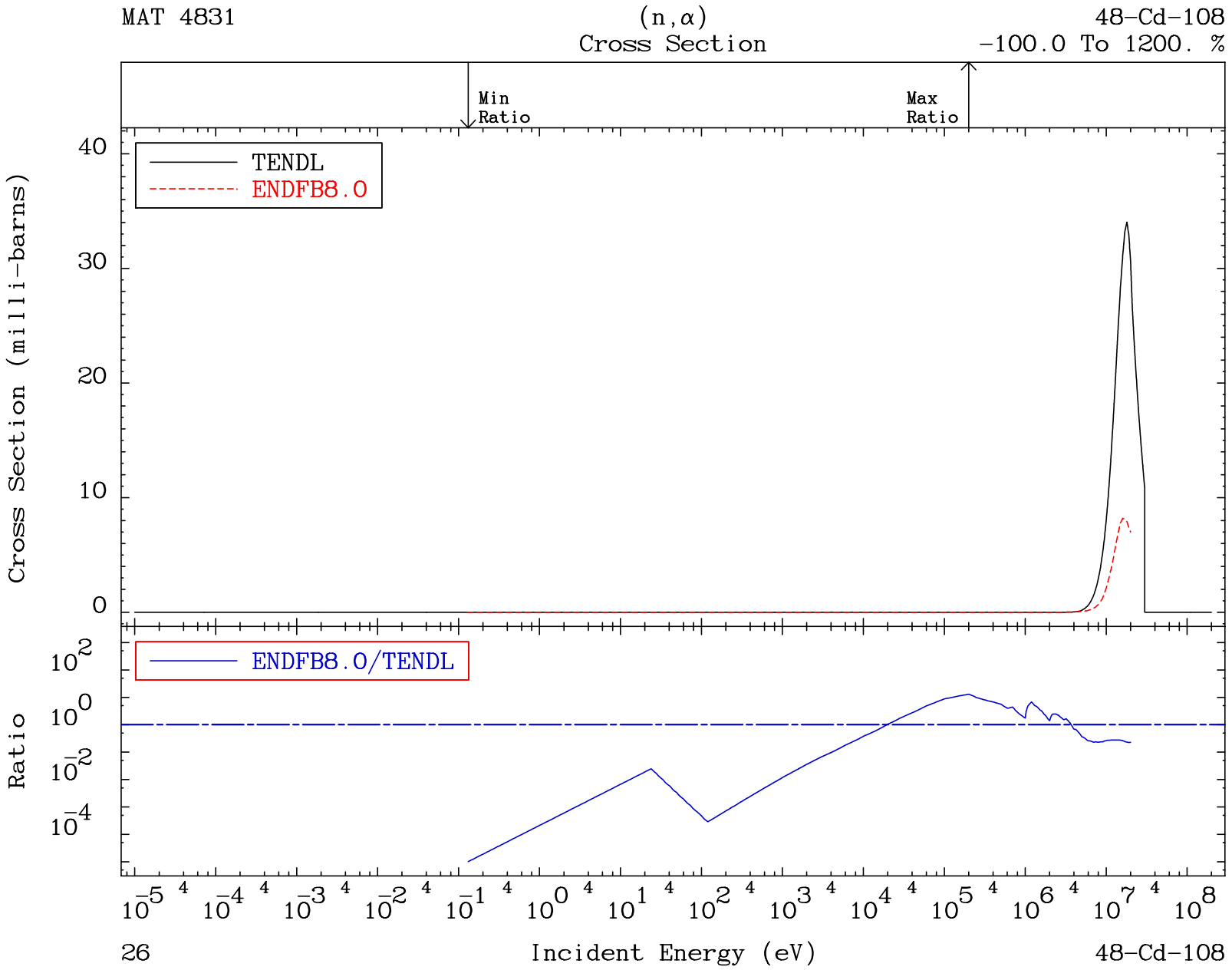

MAT 4831
(n,γ)
Cross Section
48-Cd-108
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
21
48-Cd-108

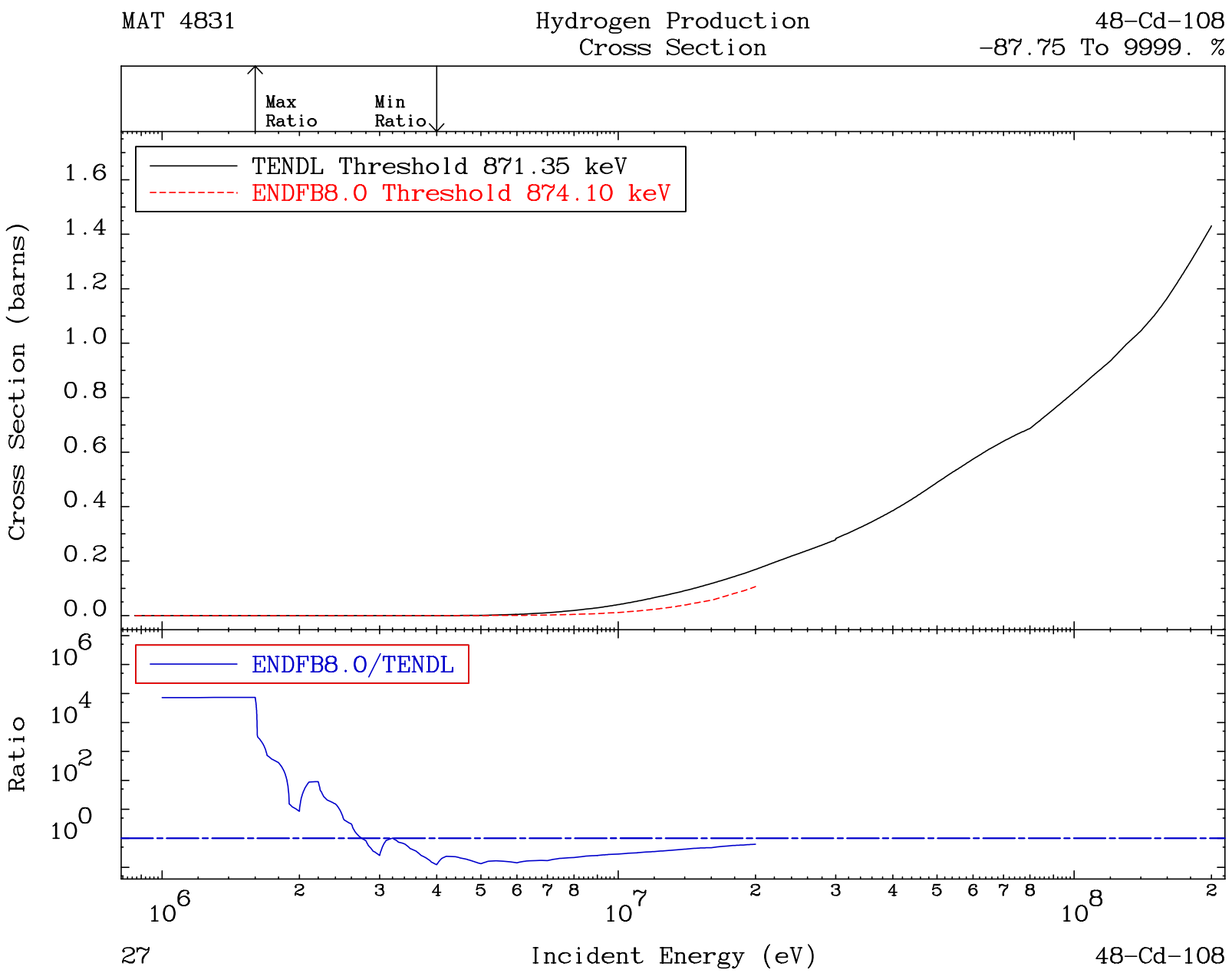

MAT 4831
(n,p)
Cross Section
48-Cd-108
-87.75 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 871.35 keV
ENDFB8.0 Threshold 874.10 keV
Cross Section (milli-barns)
0
20
40
60
80
ENDFB8.0/TENDL
Ratio
10^6
10^4
10^2
10^0
10^6
10^7
10^8
2 3 4 5 6 7 8
Incident Energy (eV)
22
48-Cd-108

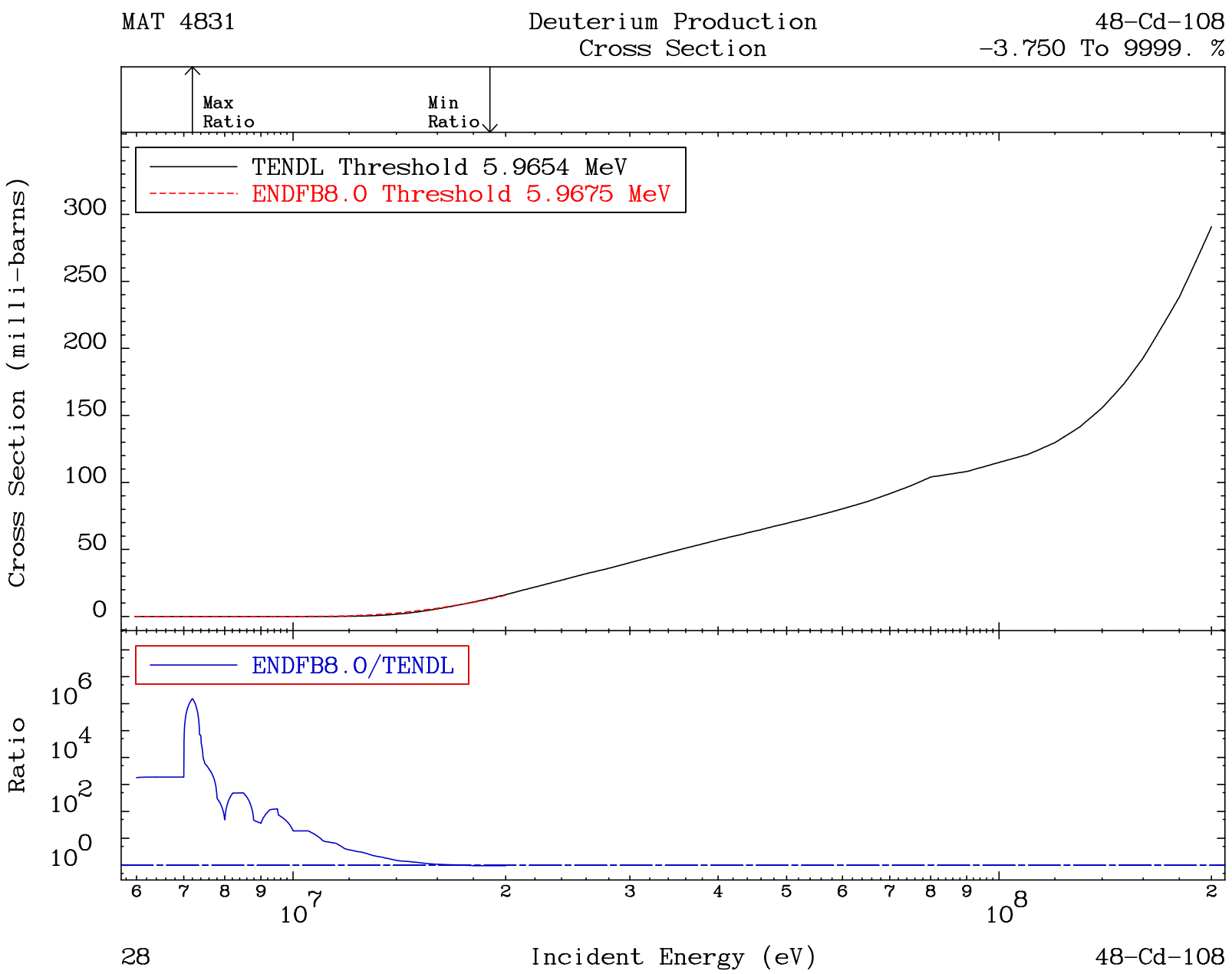

MAT 4831
(n,d)
Cross Section
48-Cd-108
-3.749 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.9654 MeV
ENDFB8.0 Threshold 5.9675 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
10^6
10^4
10^2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
48-Cd-108

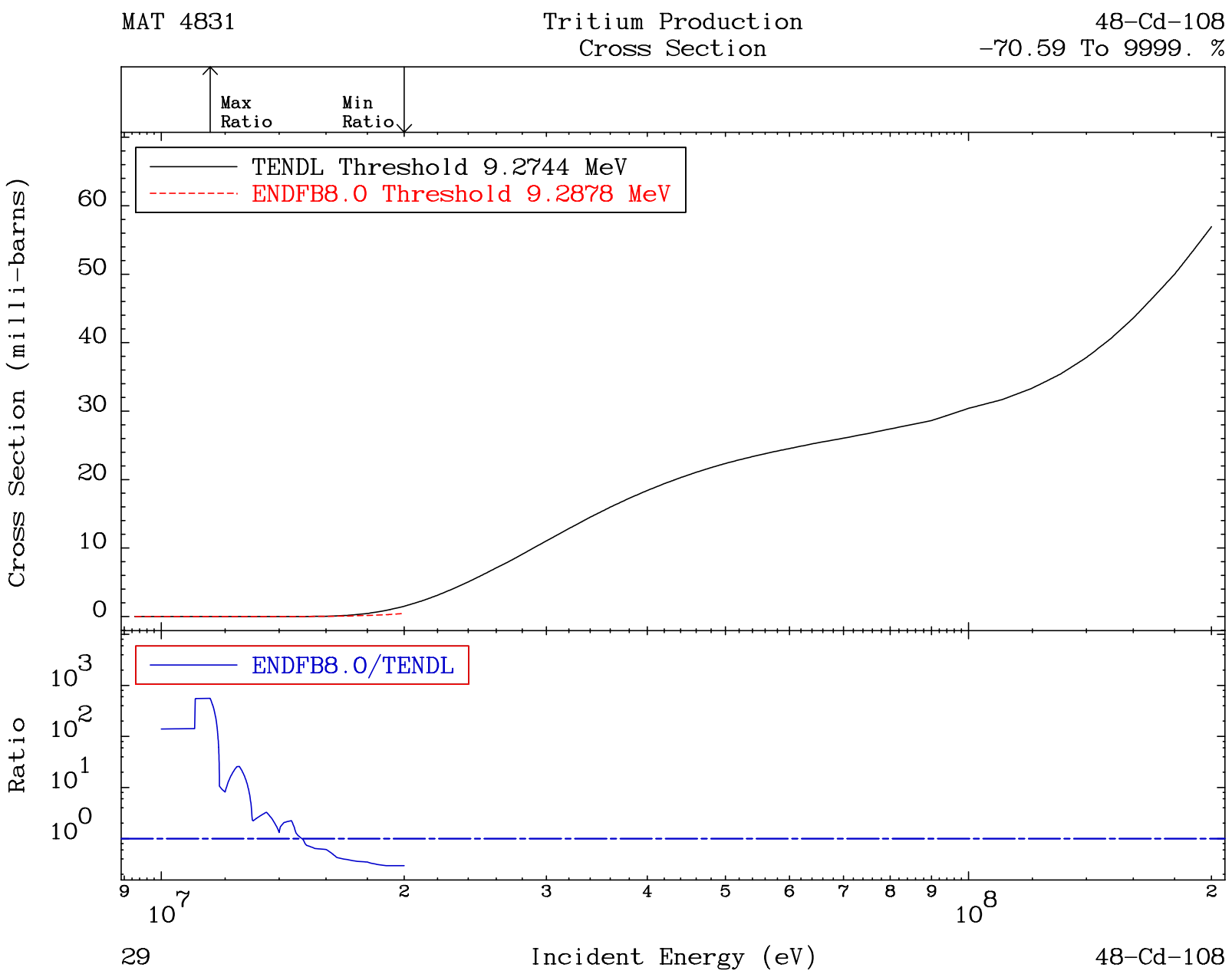

MAT 4831
(n,t)
Cross Section
48-Cd-108
-70.59 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.2744 MeV
ENDFB8.0 Threshold 9.2878 MeV
Cross Section (milli-barns)
0
2
4
6
8
ENDFB8.0/TENDL
Ratio
10^0
10^1
10^2
10^3
9
10^7
2
3
4
5
6
7
8
9
10^8
2
24
Incident Energy (eV)
48-Cd-108

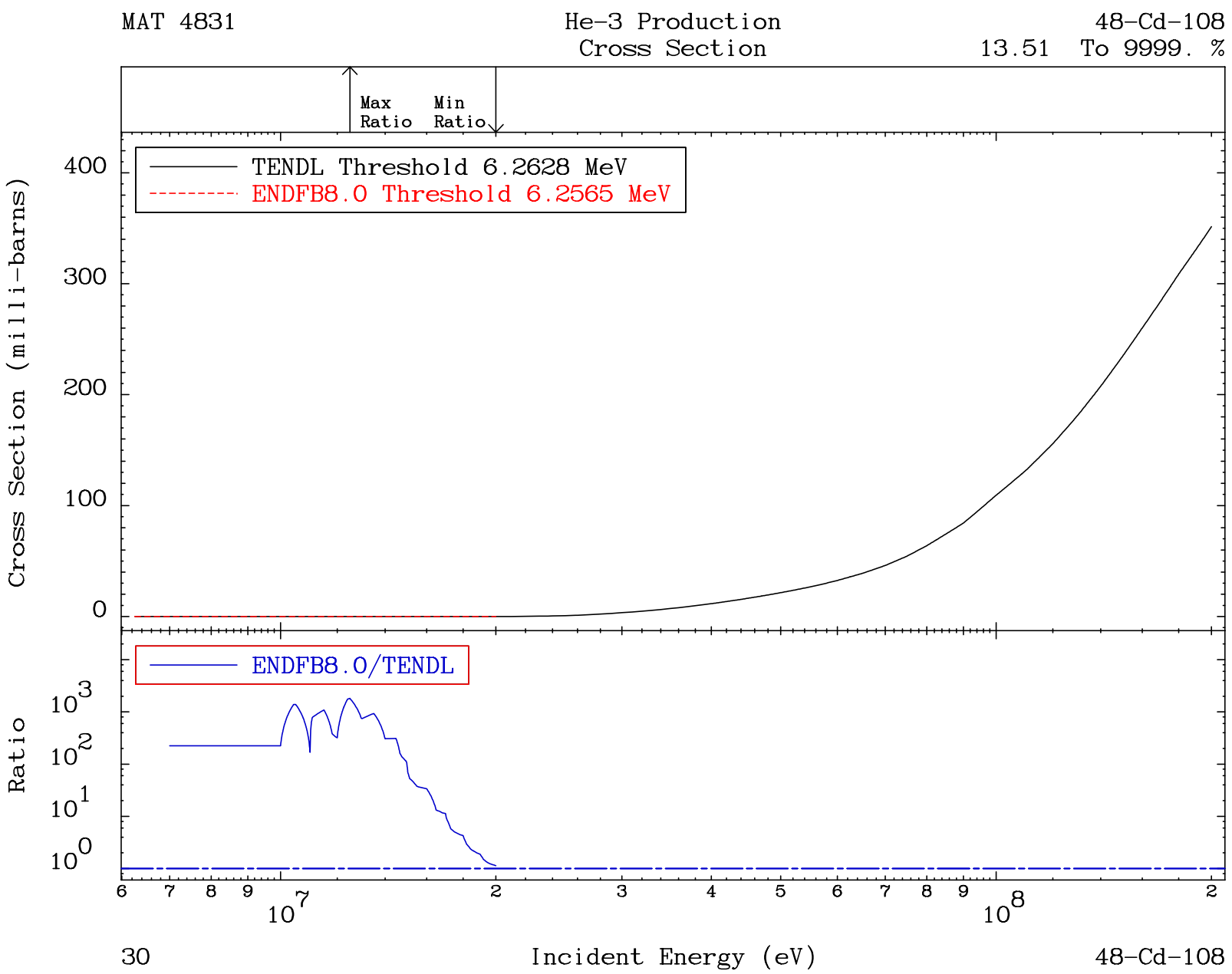

MAT 4831
(n,He-3)
Cross Section
48-Cd-108
13.51 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.2628 MeV
ENDFB8.0 Threshold 6.2565 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
10^3
10^2
10^1
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
48-Cd-108

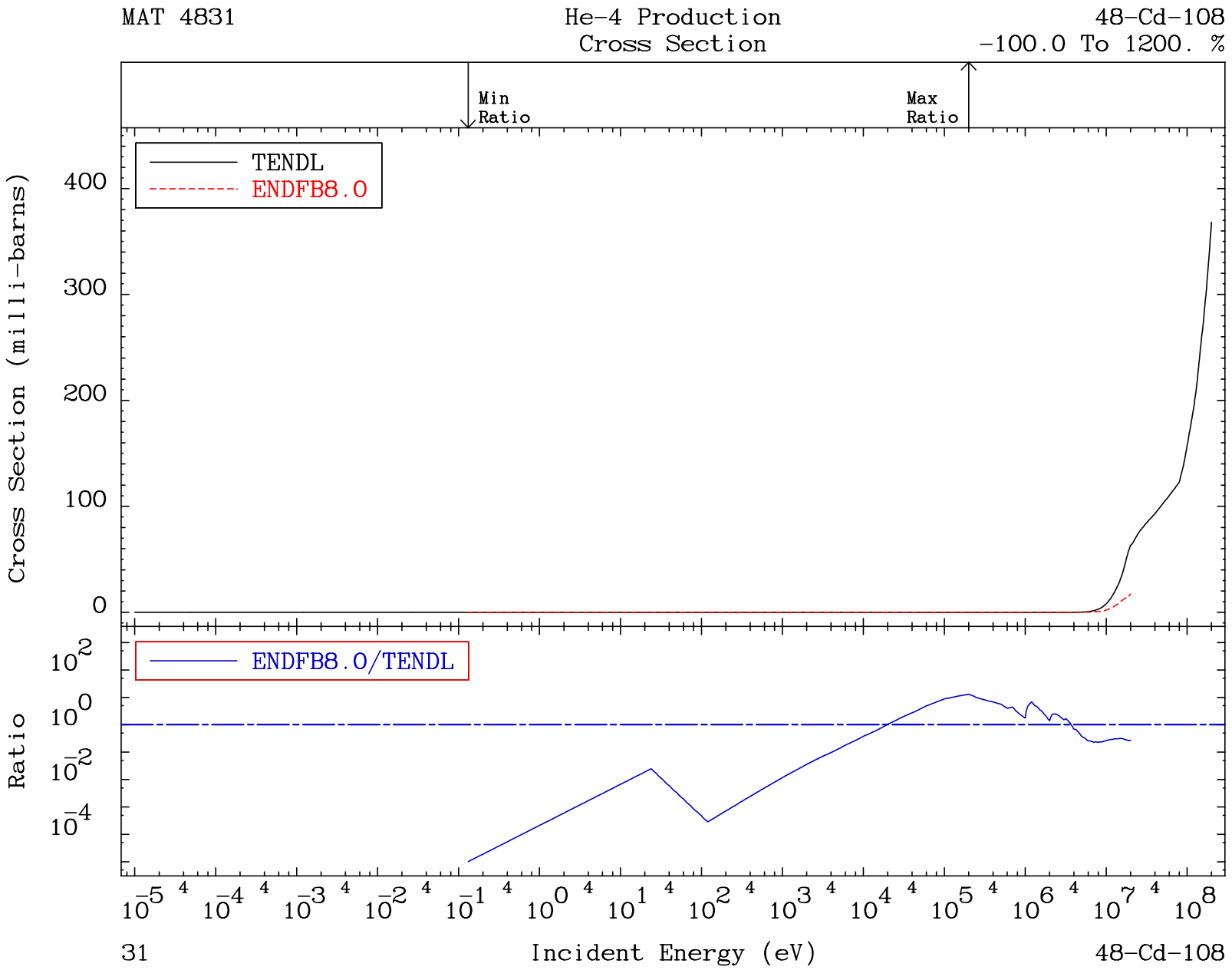

MAT 4831
(n,α)
Cross Section
48-Cd-108
-100.0 To 1200. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (milli-barns)
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
10^2
10^0
10^-2
10^-4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
26
Incident Energy (eV)
48-Cd-108

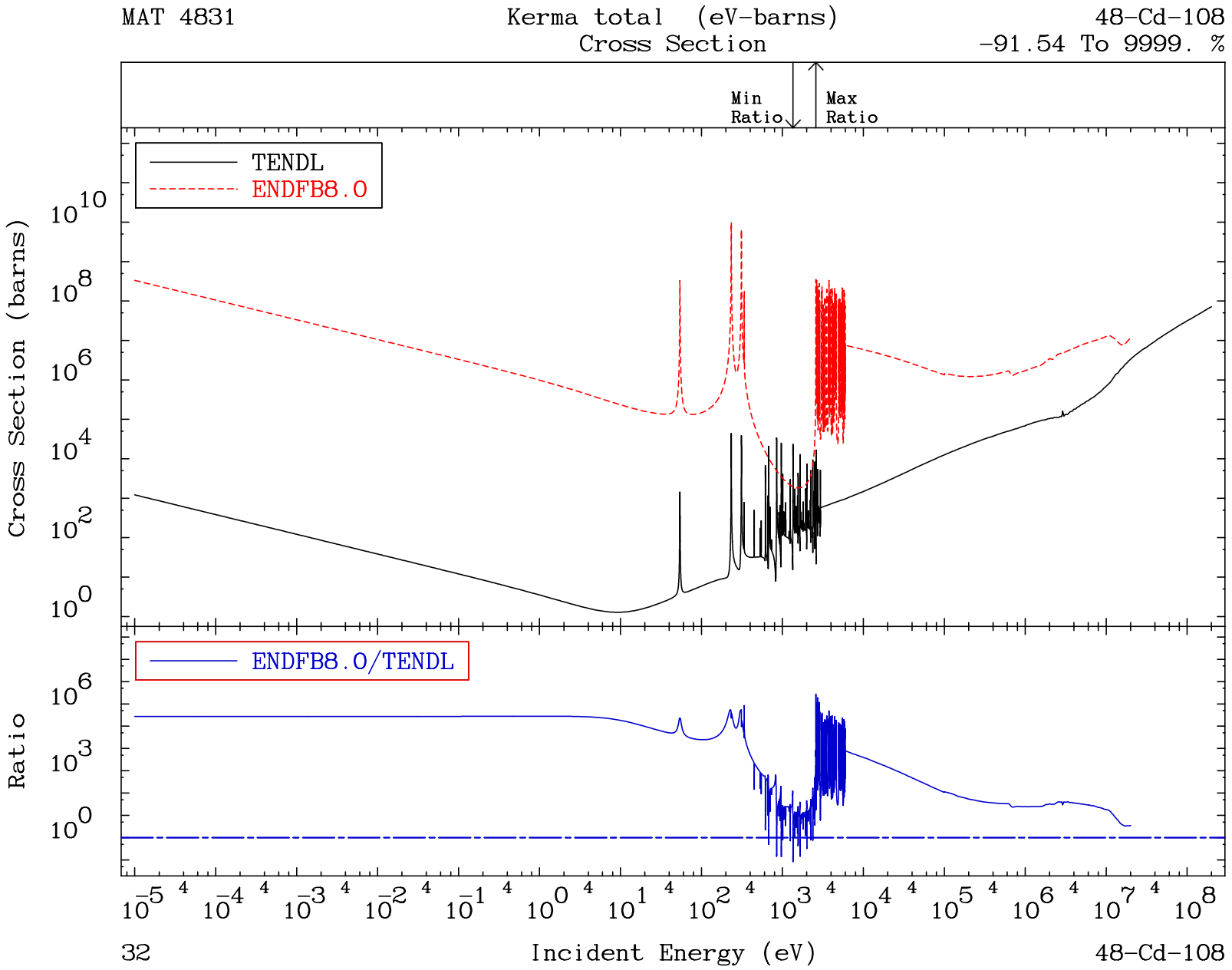

MAT 4831
Hydrogen Production
Cross Section
48-Cd-108
-87.75 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 871.35 keV
ENDFB8.0 Threshold 874.10 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
10^6
10^4
10^2
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
27
Incident Energy (eV)
48-Cd-108

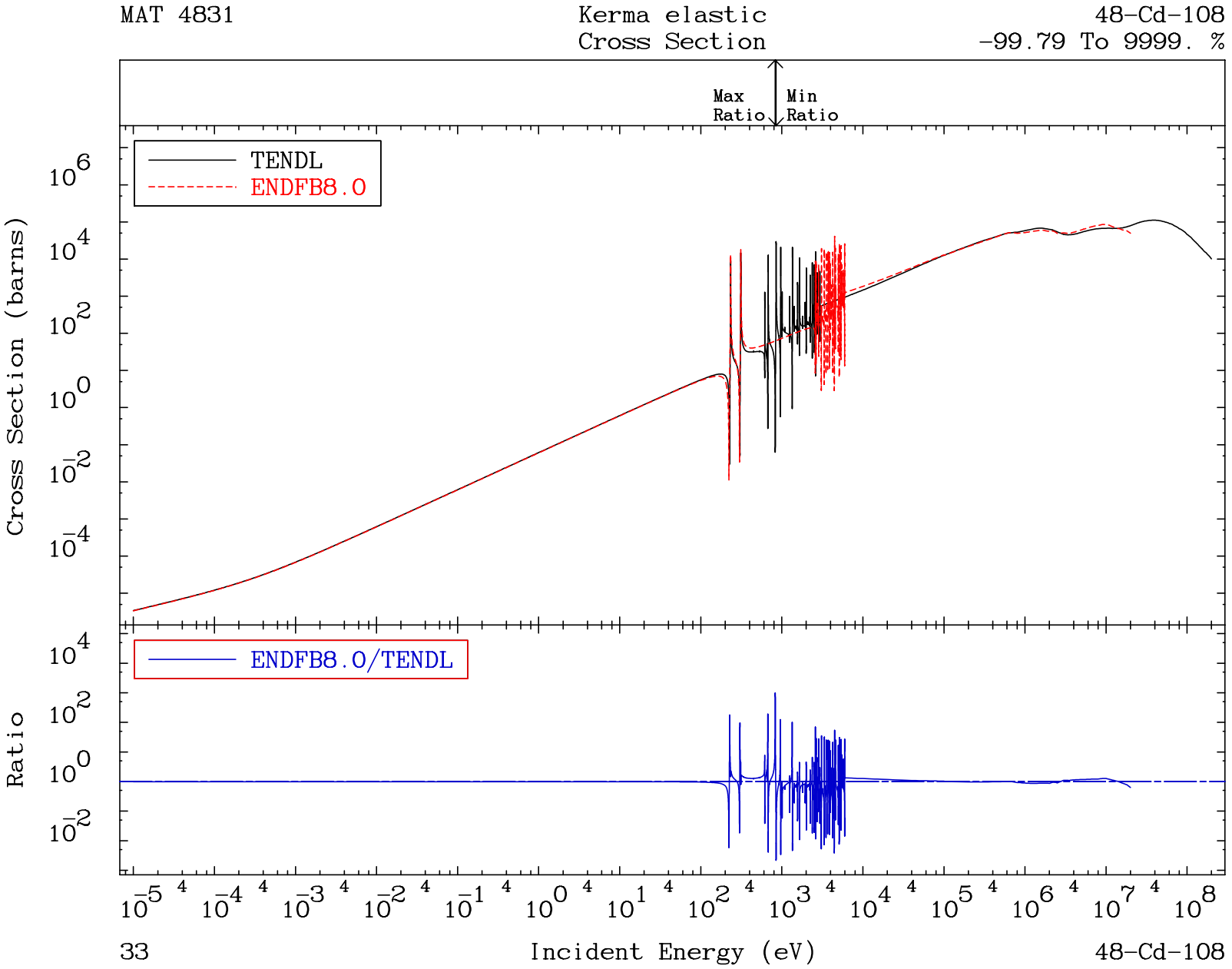

MAT 4831
Deuterium Production
Cross Section
48-Cd-108
-3.750 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.9654 MeV
ENDFB8.0 Threshold 5.9675 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
10^6
10^4
10^2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
48-Cd-108

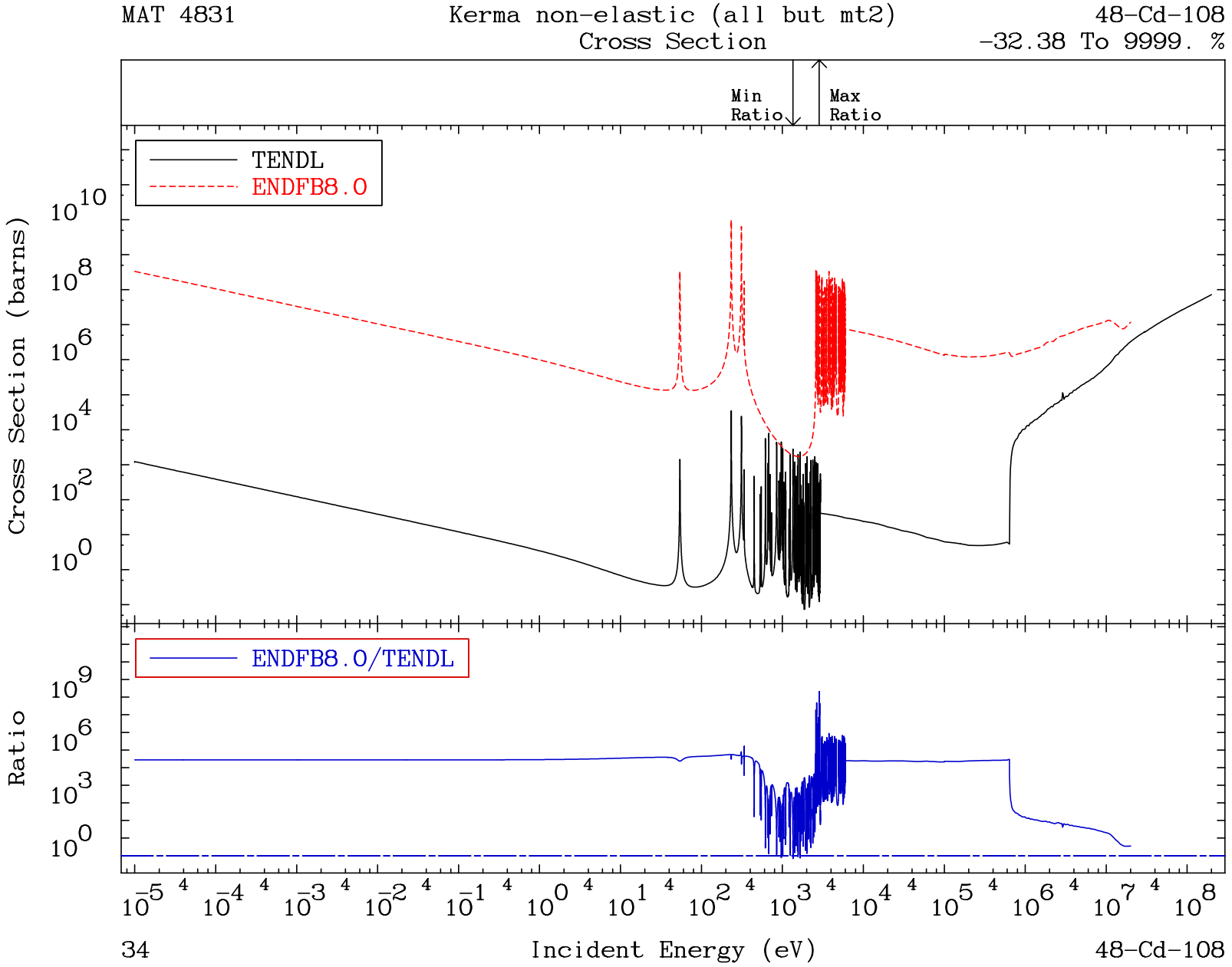

MAT 4831
Tritium Production
Cross Section
48-Cd-108
-70.59 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.2744 MeV
ENDFB8.0 Threshold 9.2878 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
10^3
10^2
10^1
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
48-Cd-108

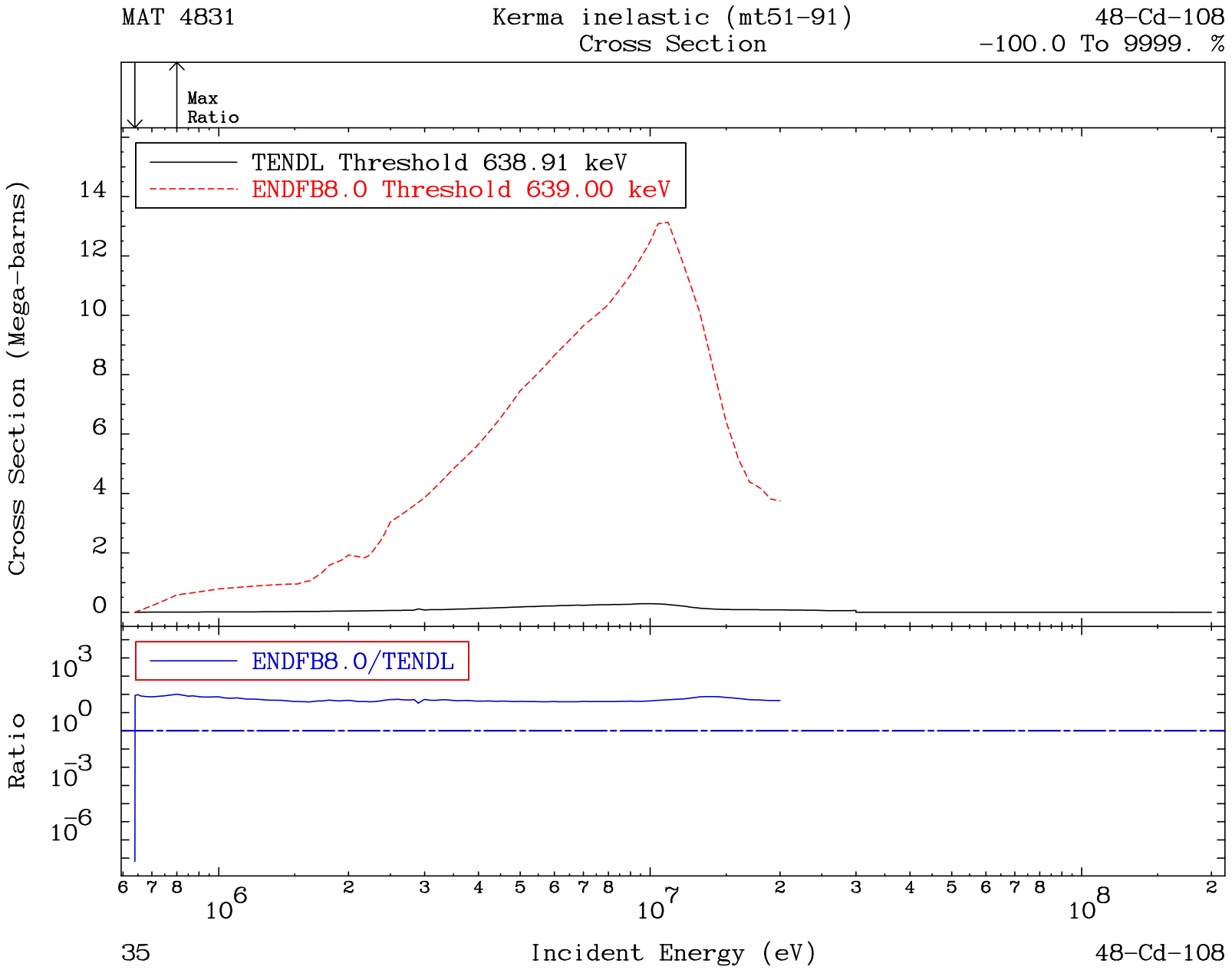

MAT 4831
He-3 Production
Cross Section
48-Cd-108
13.51 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.2628 MeV
ENDFB8.0 Threshold 6.2565 MeV
Cross Section (milli-barns)
400
300
200
100
0
ENDFB8.0/TENDL
Ratio
10^3
10^2
10^1
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
48-Cd-108

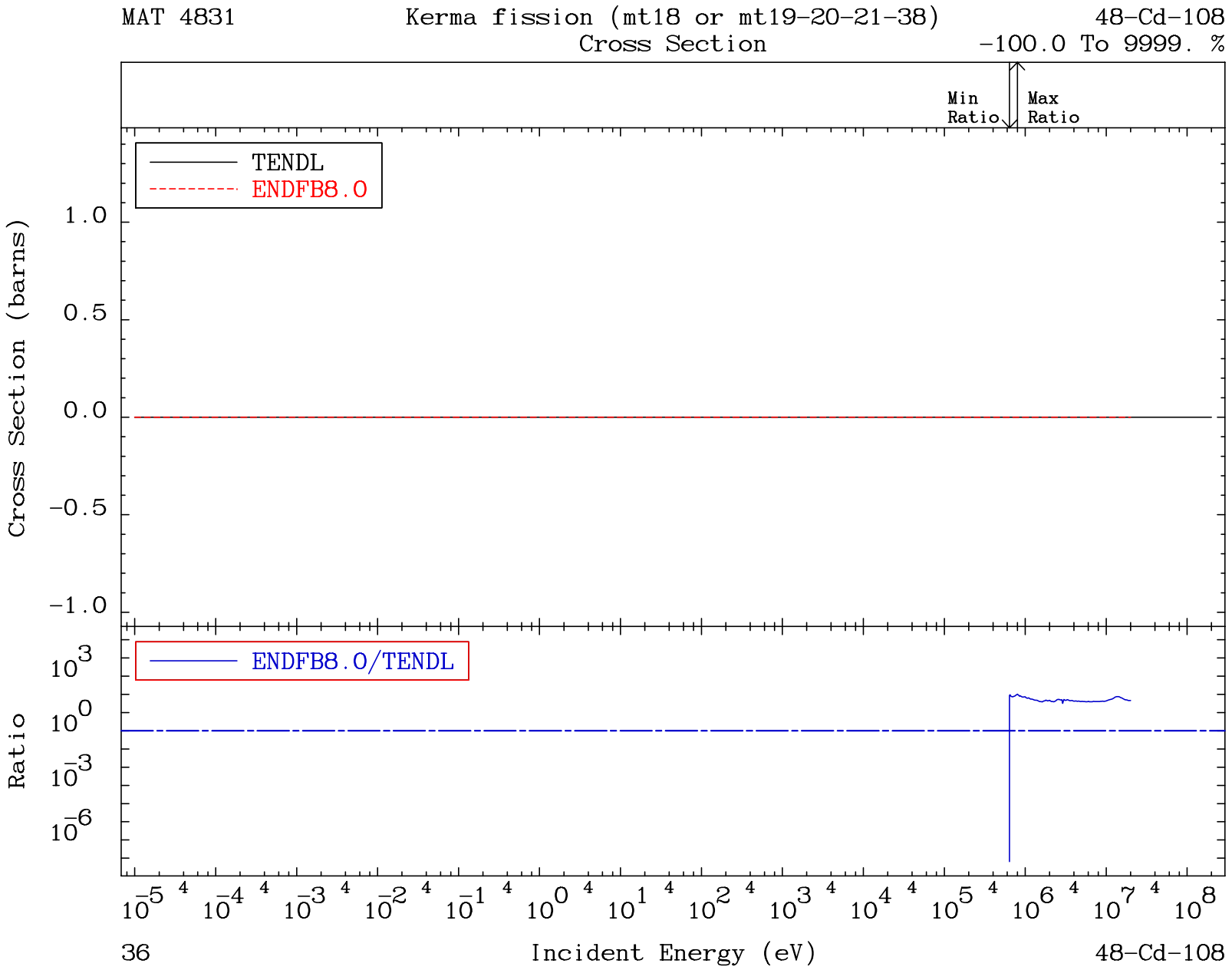

MAT 4831
He-4 Production
Cross Section
48-Cd-108
-100.0 To 1200. %
Min
Ratio
Max
Ratio
TENDL
ENDFB8.0
Cross Section (milli-barns)
400
300
200
100
0
ENDFB8.0/TENDL
Ratio
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
31
Incident Energy (eV)
48-Cd-108

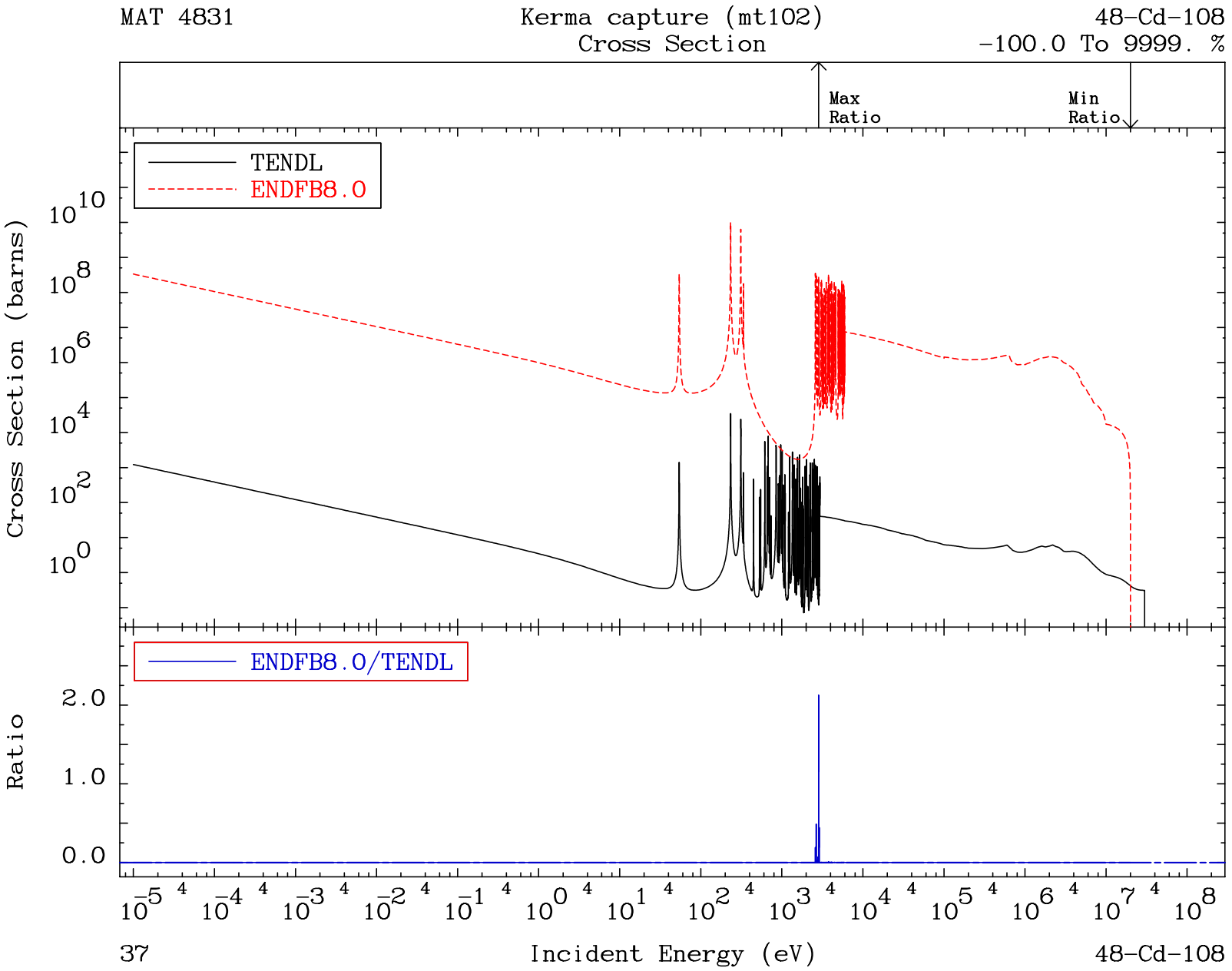

MAT 4831
Kerma total (eV-barns)
Cross Section
48-Cd-108
-91.54 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
32
48-Cd-108

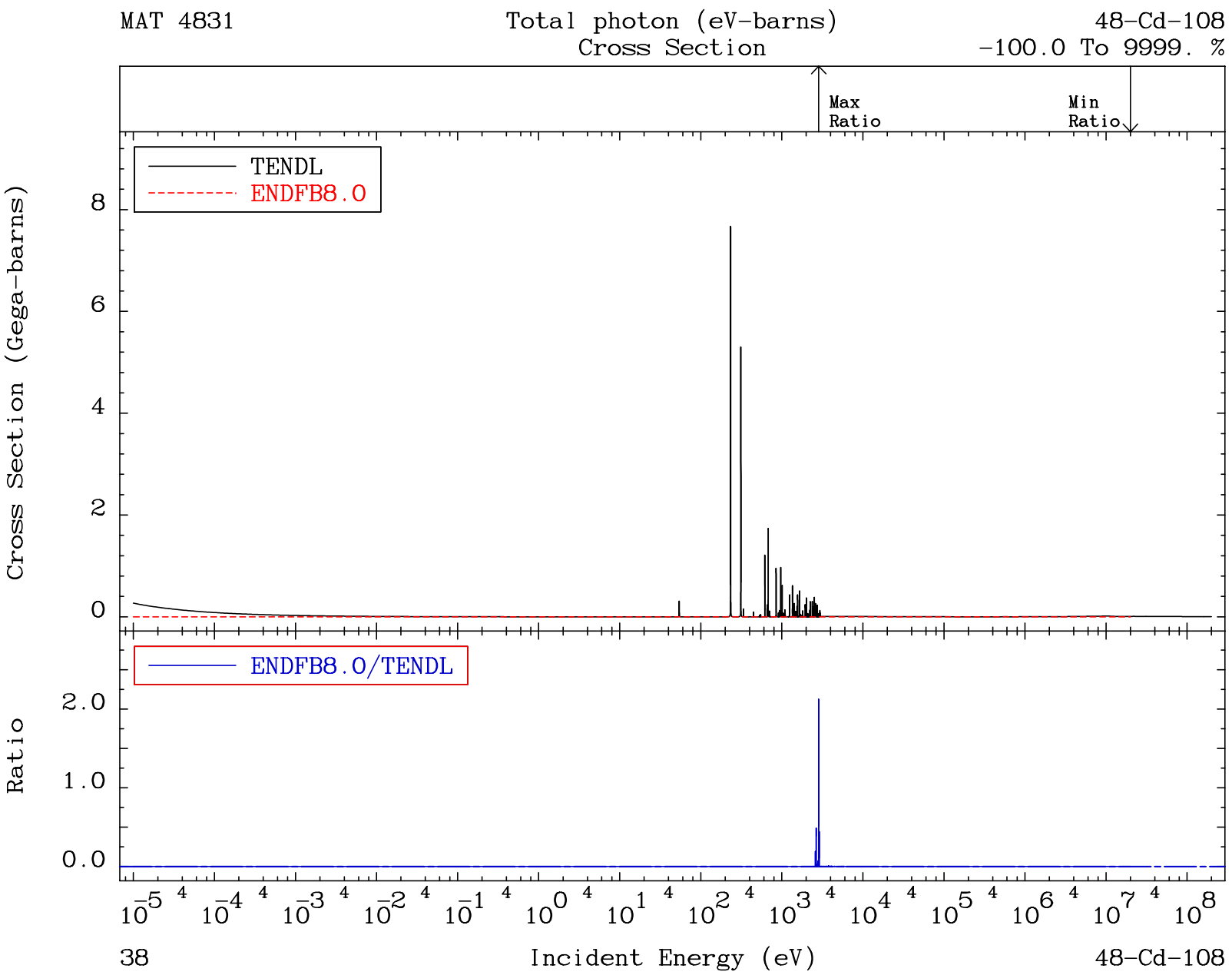

MAT 4831
Kerma elastic
Cross Section
48-Cd-108
-99.79 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
33
48-Cd-108

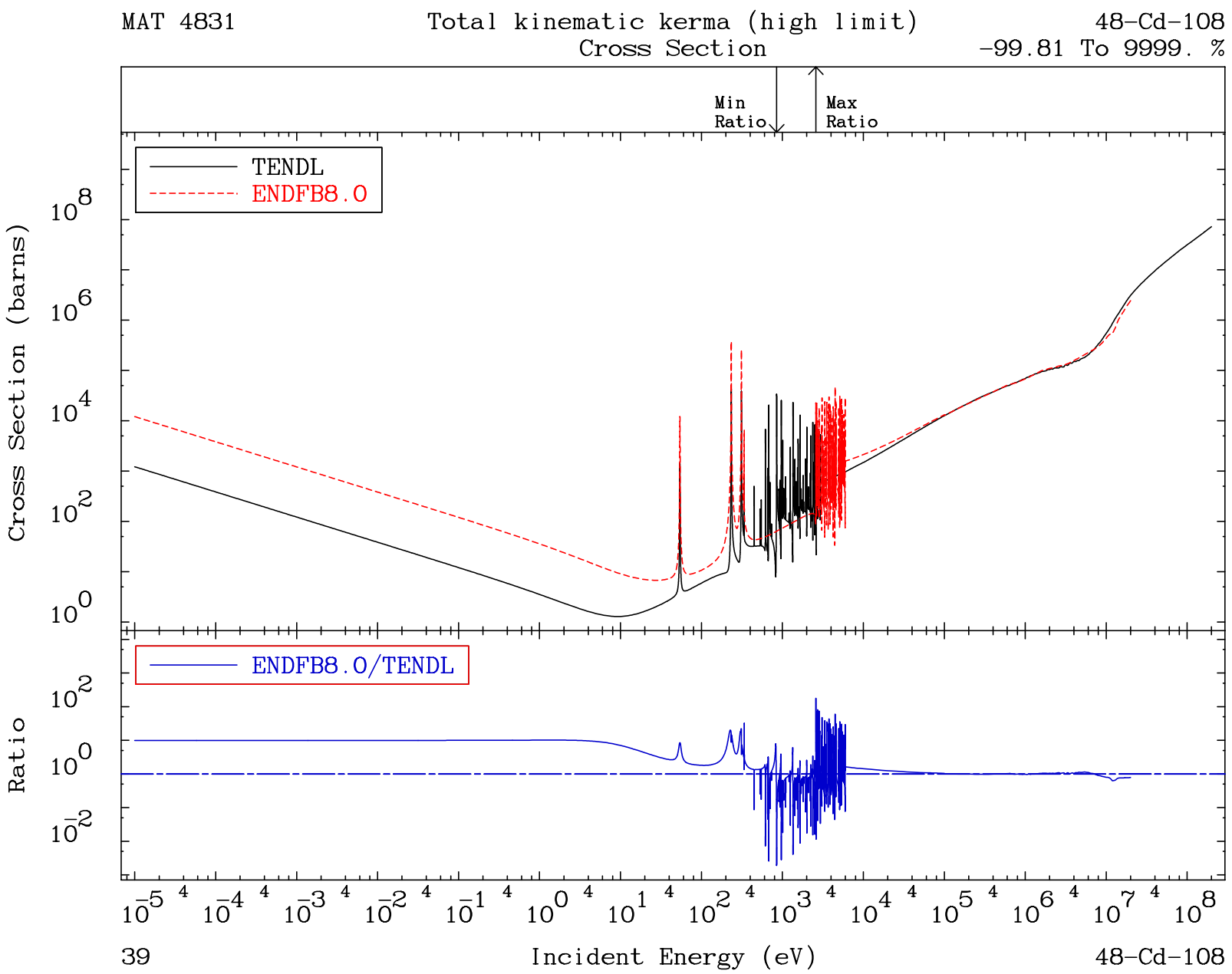

MAT 4831
Kerma non-elastic (all but mt2)
Cross Section
48-Cd-108
-32.38 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
34
48-Cd-108

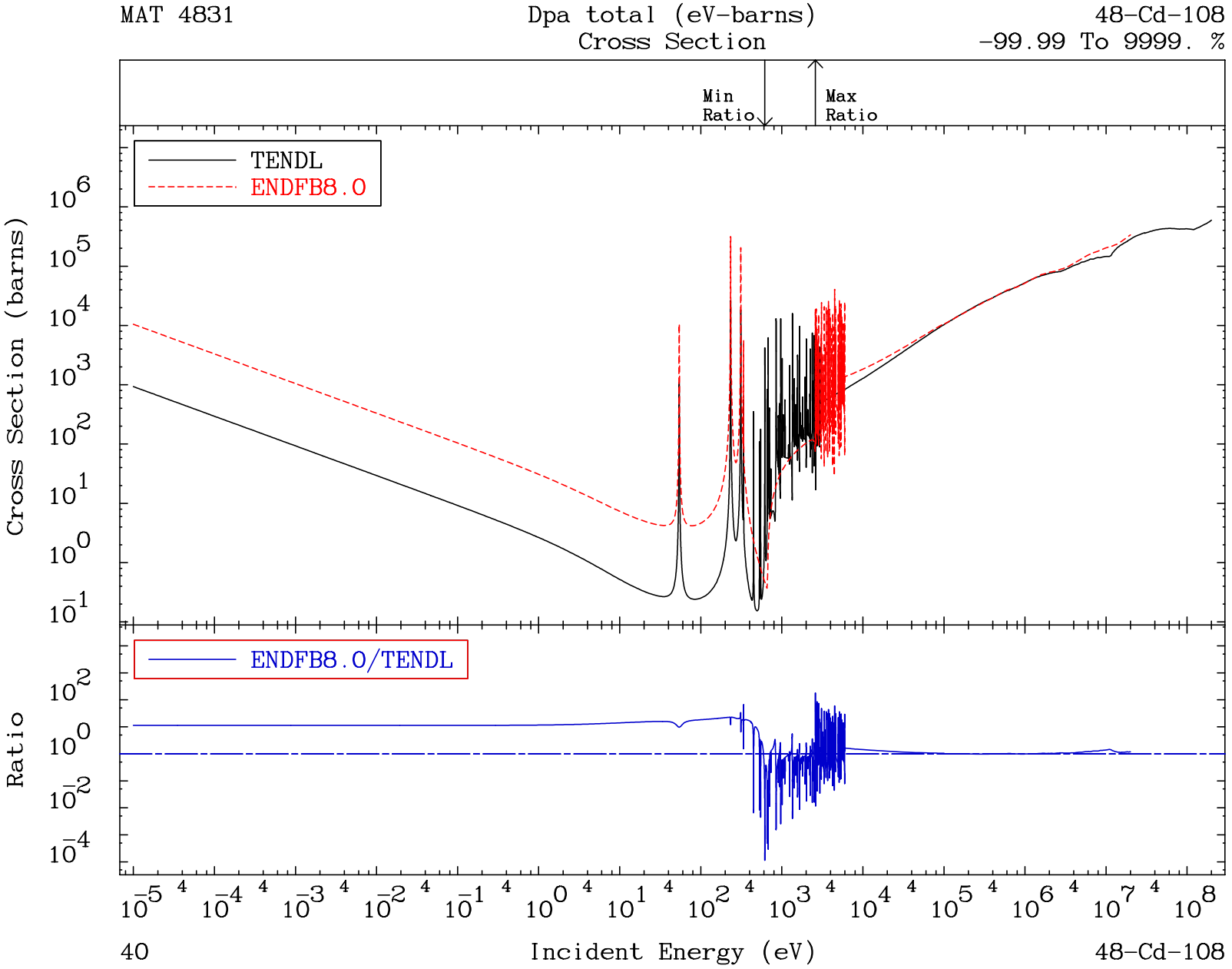

MAT 4831
Kerma inelastic (mt51-91)
Cross Section
48-Cd-108
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 638.91 keV
ENDFB8.0 Threshold 639.00 keV
Cross Section (Mega-barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
35
48-Cd-108

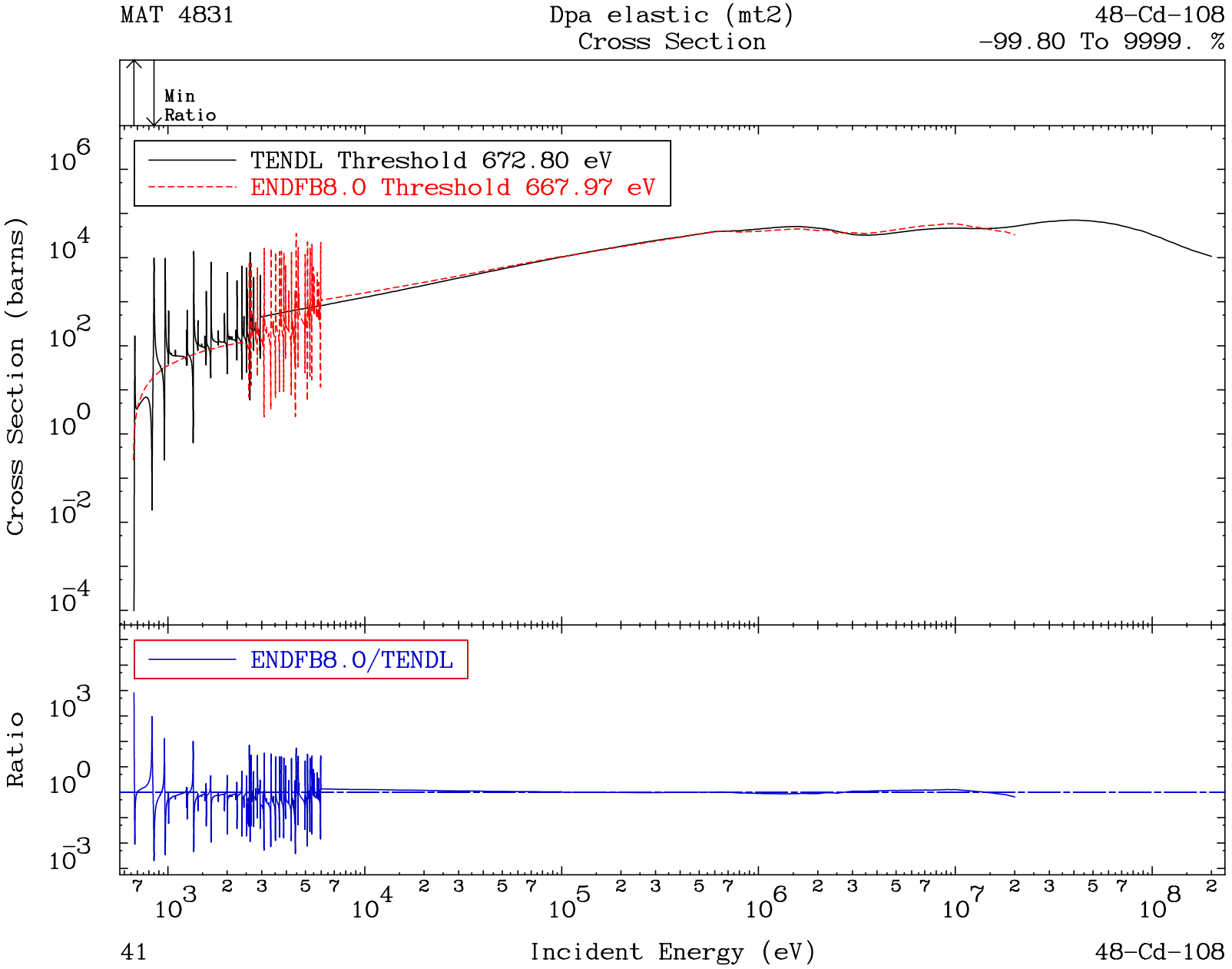

MAT 4831
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
48-Cd-108
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
ENDFB8.0/TENDL
Ratio
10^3
10^0
10^-3
10^-6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
36
Incident Energy (eV)
48-Cd-108

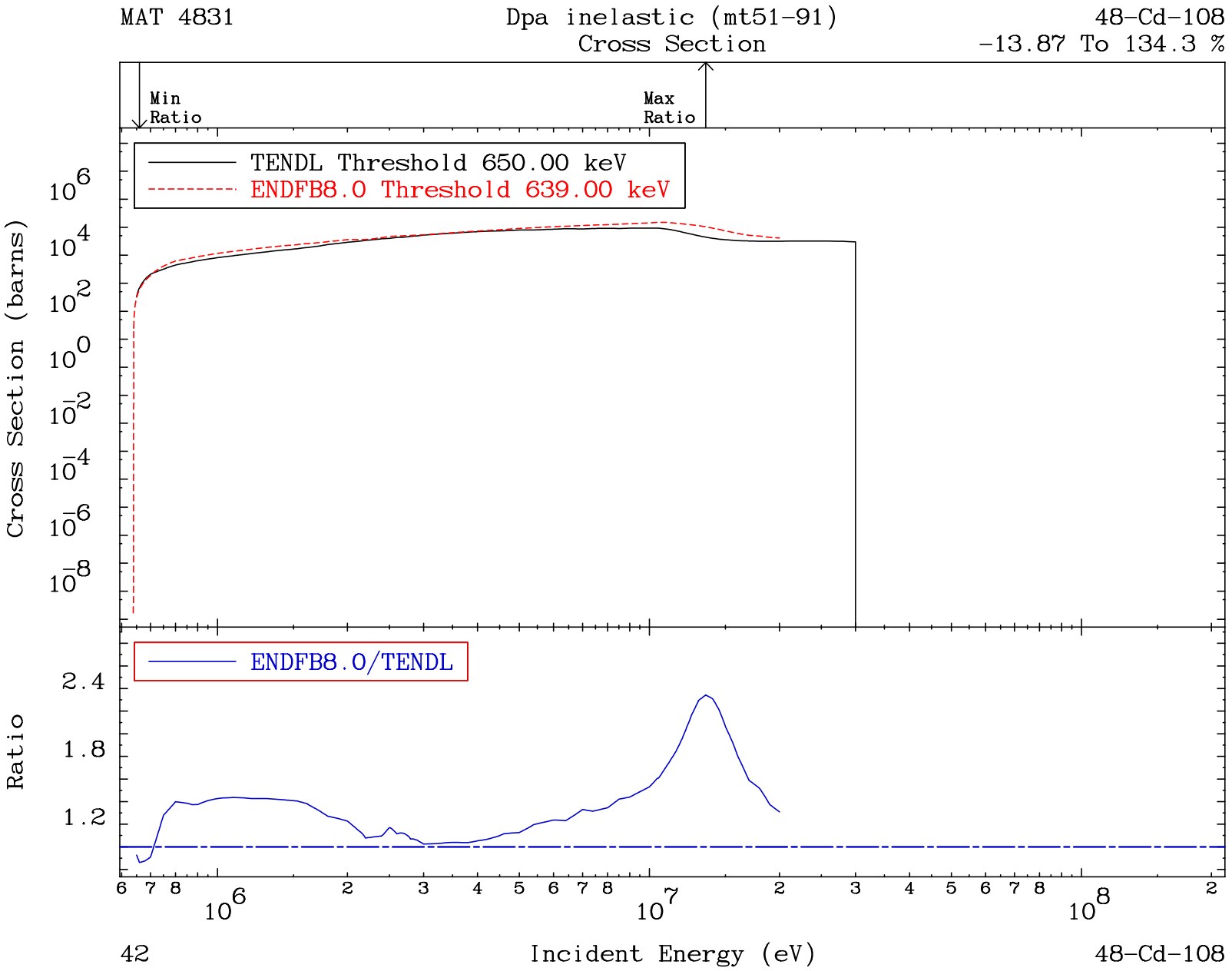

MAT 4831
Kerma capture (mt102)
Cross Section
48-Cd-108
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
37
48-Cd-108

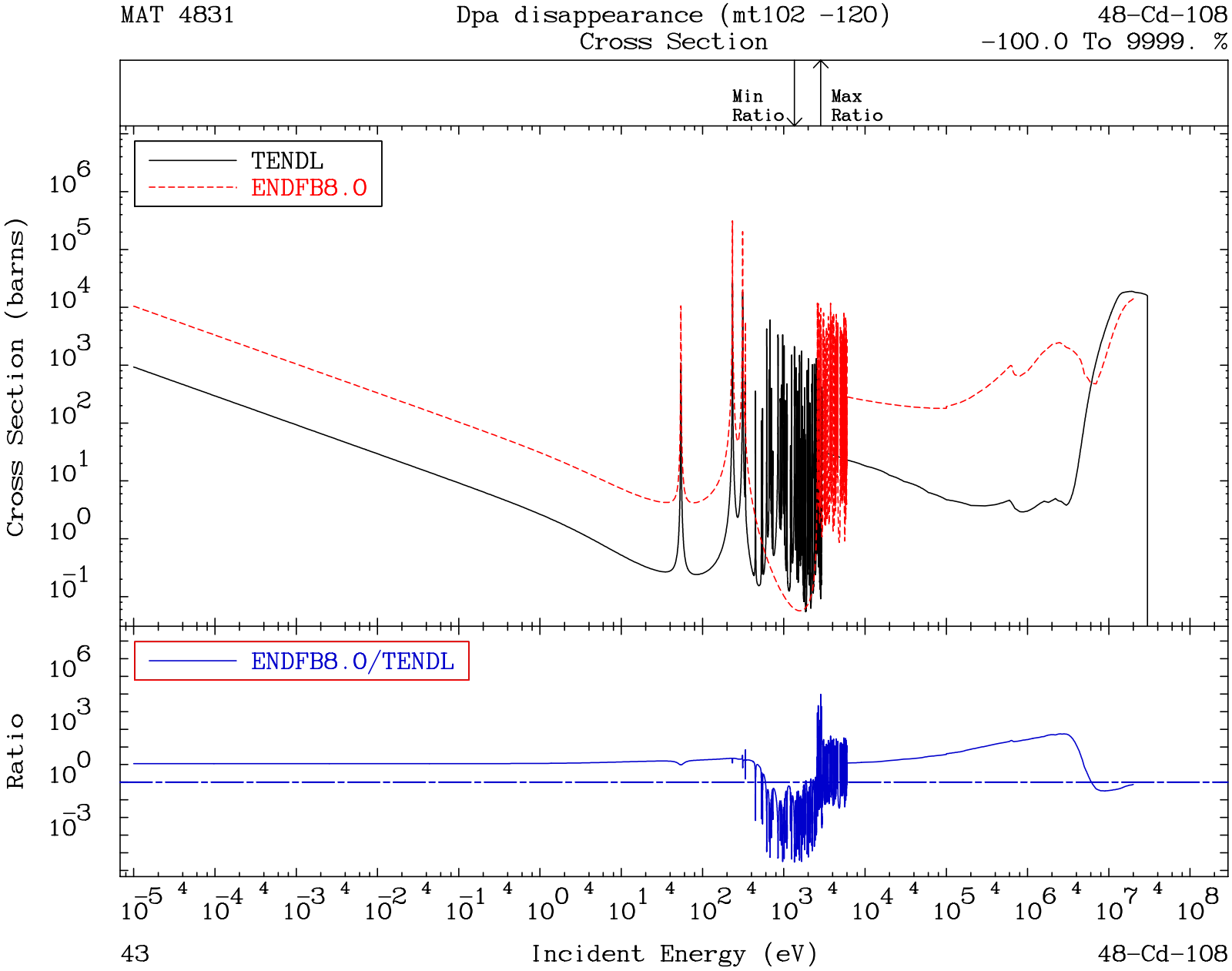

MAT 4831
Total photon (eV-barns)
Cross Section
48-Cd-108
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (Giga-barns)
0
2
4
6
8
ENDFB8.0/TENDL
Ratio
0.0
1.0
2.0
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
38
Incident Energy (eV)
48-Cd-108


MAT 4831
Total kinematic kerma (high limit)
Cross Section
48-Cd-108
-99.81 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
39
48-Cd-108


MAT 4831
Dpa total (eV-barns)
Cross Section
48-Cd-108
-99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
40
48-Cd-108


MAT 4831
Dpa elastic (mt2)
Cross Section
48-Cd-108
-99.80 To 9999. %
Min
Ratio
TENDL Threshold 672.80 eV
ENDFB8.0 Threshold 667.97 eV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
41
48-Cd-108


MAT 4831
Dpa inelastic (mt51-91)
Cross Section
48-Cd-108
-13.87 To 134.3 %
Min Ratio
Max Ratio
TENDL Threshold 650.00 keV
ENDFB8.0 Threshold 639.00 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
42
48-Cd-108


MAT 4831
Dpa disappearance (mt102 -120)
Cross Section
48-Cd-108
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
43
48-Cd-108