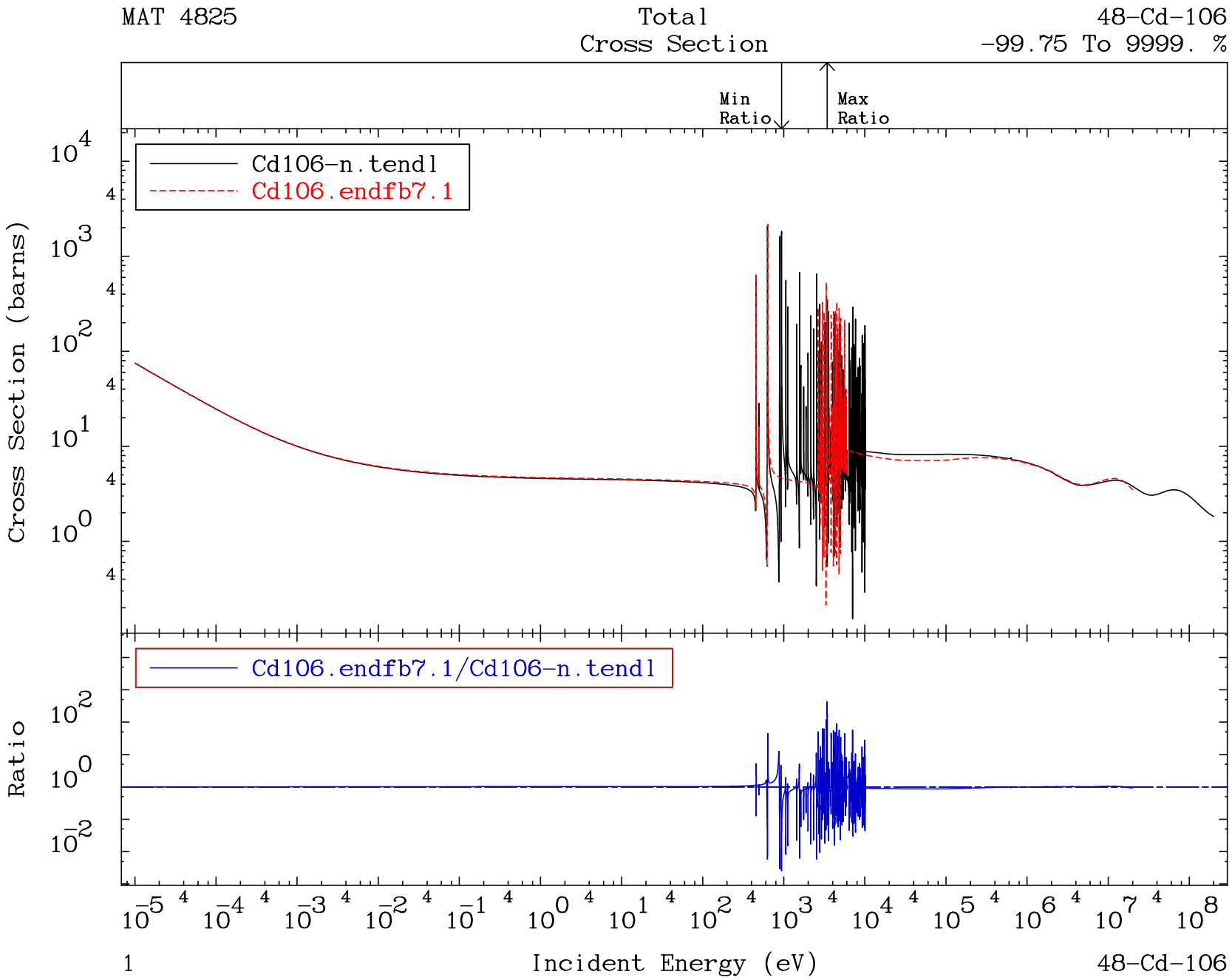
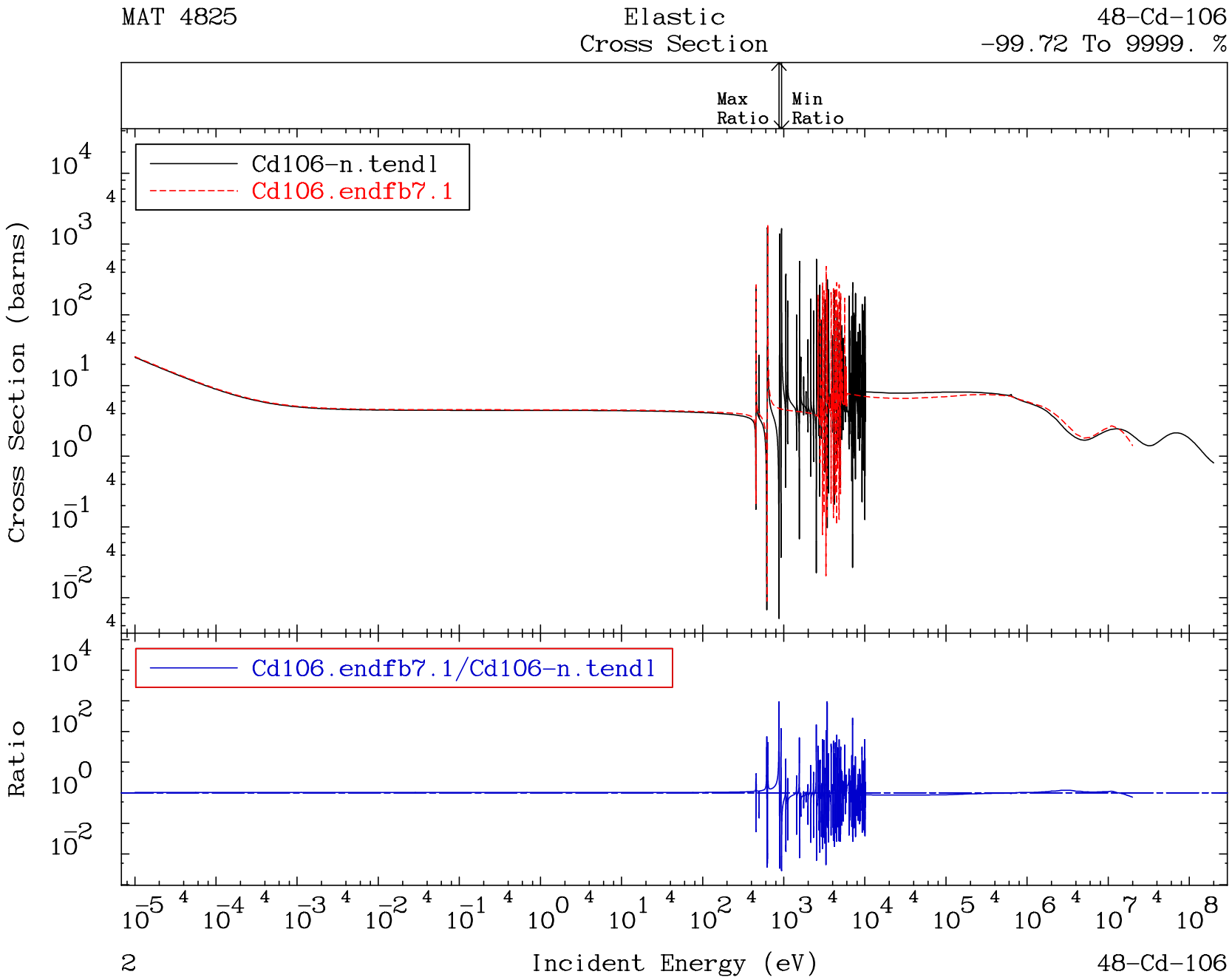
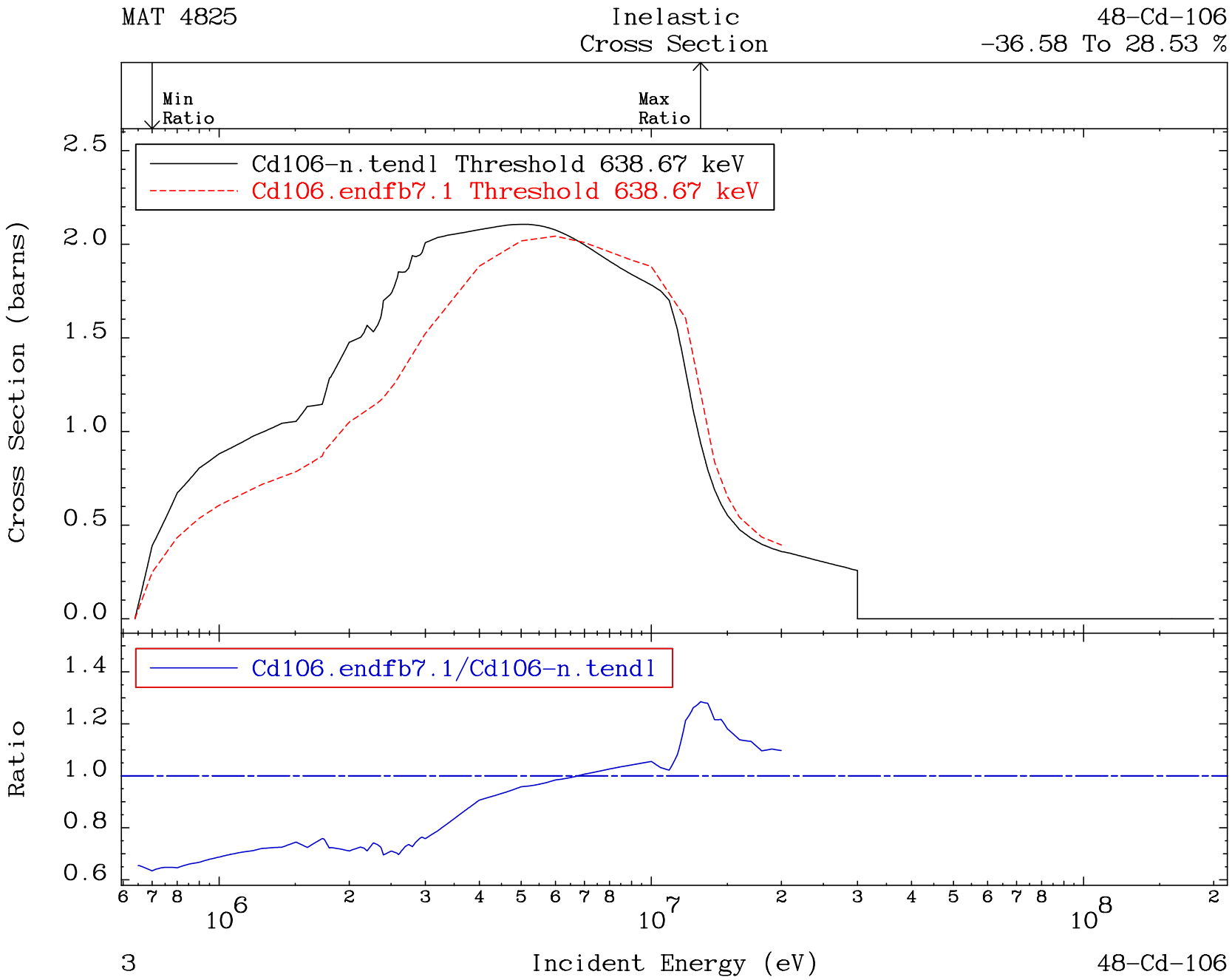
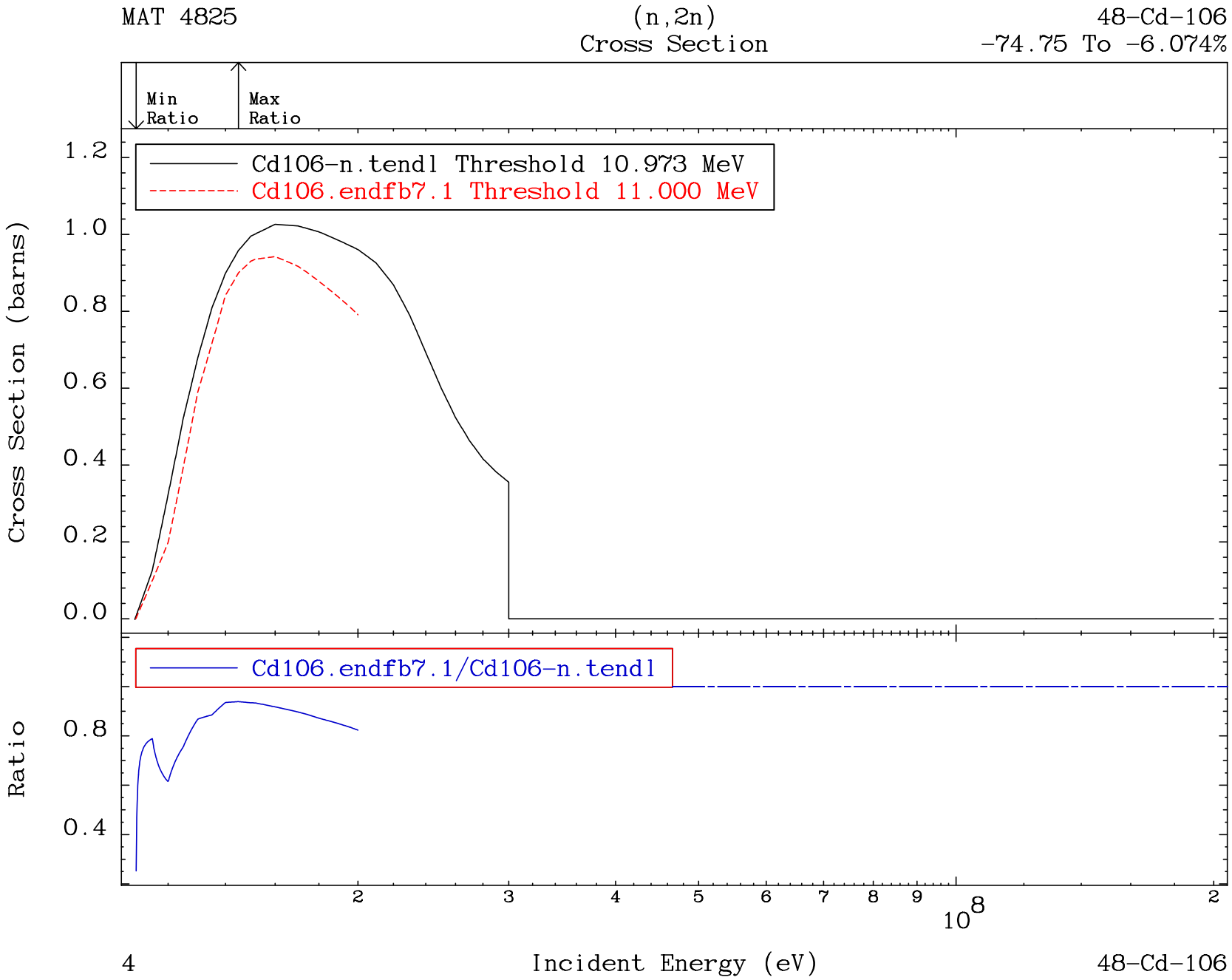
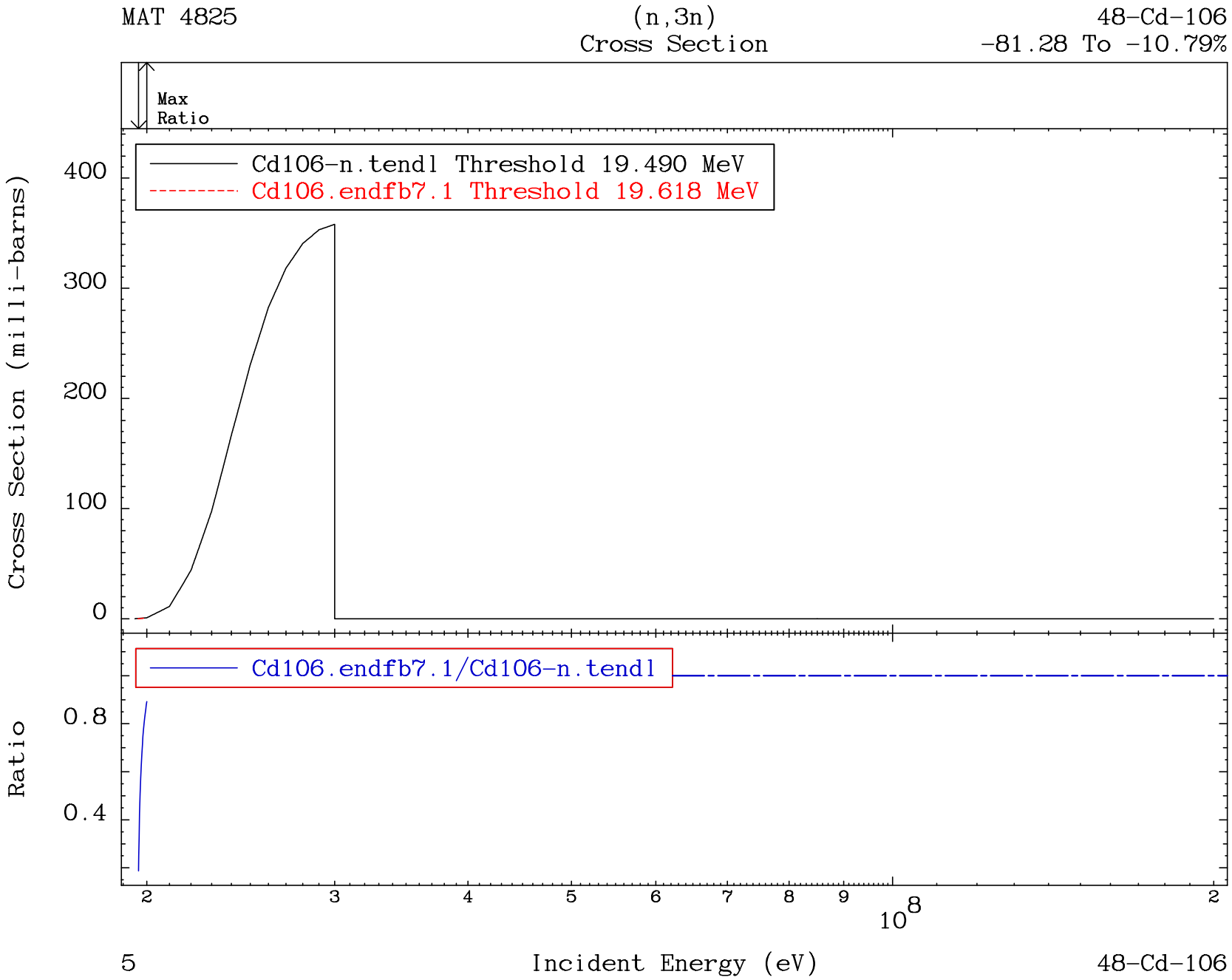
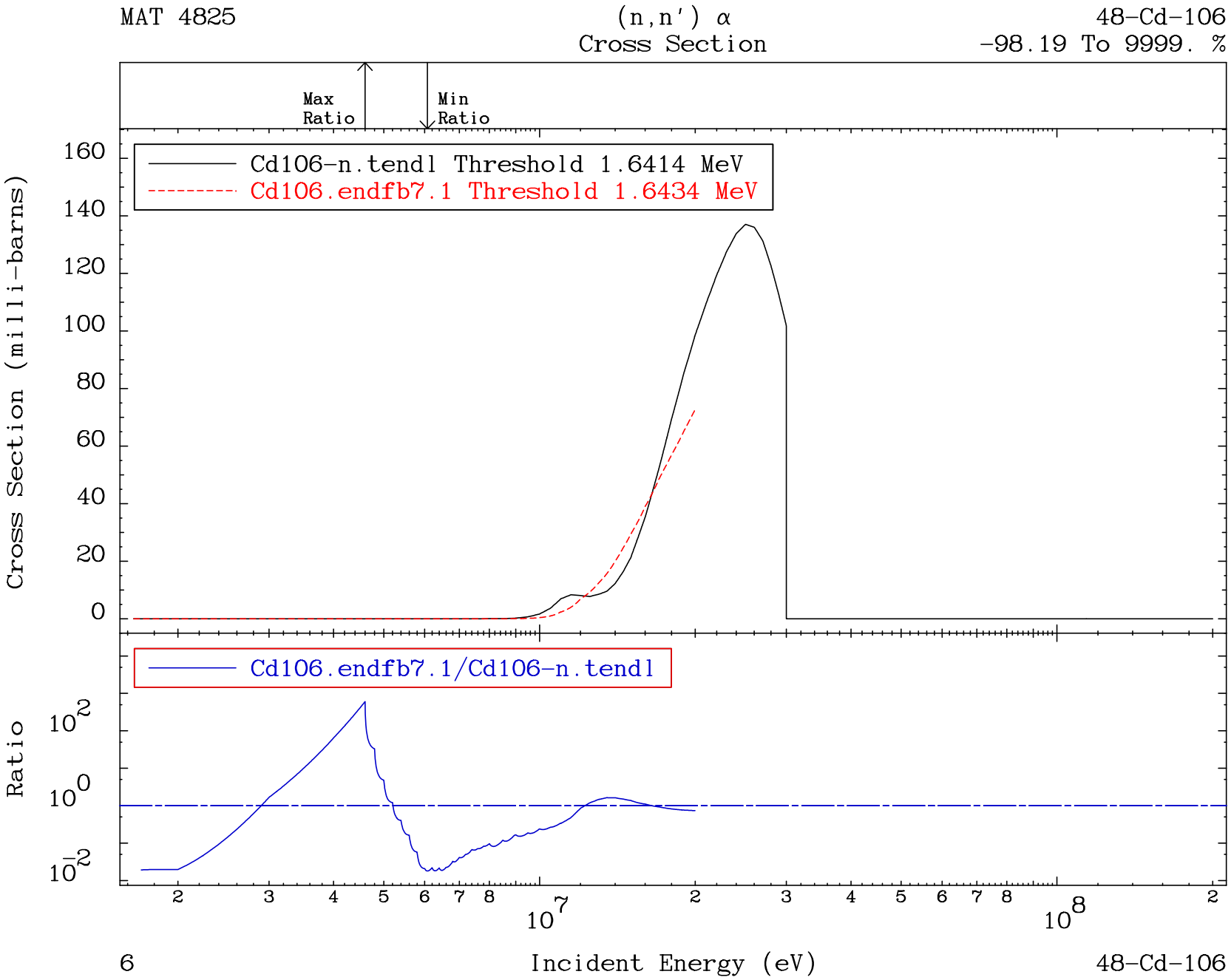

MAT 4825
Total
Cross Section
48-Cd-106
-99.75 To 9999. %
Min Ratio
Max Ratio
Cd106-n.tendl
Cd106.endfb7.1
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
Incident Energy (eV)
1
48-Cd-106

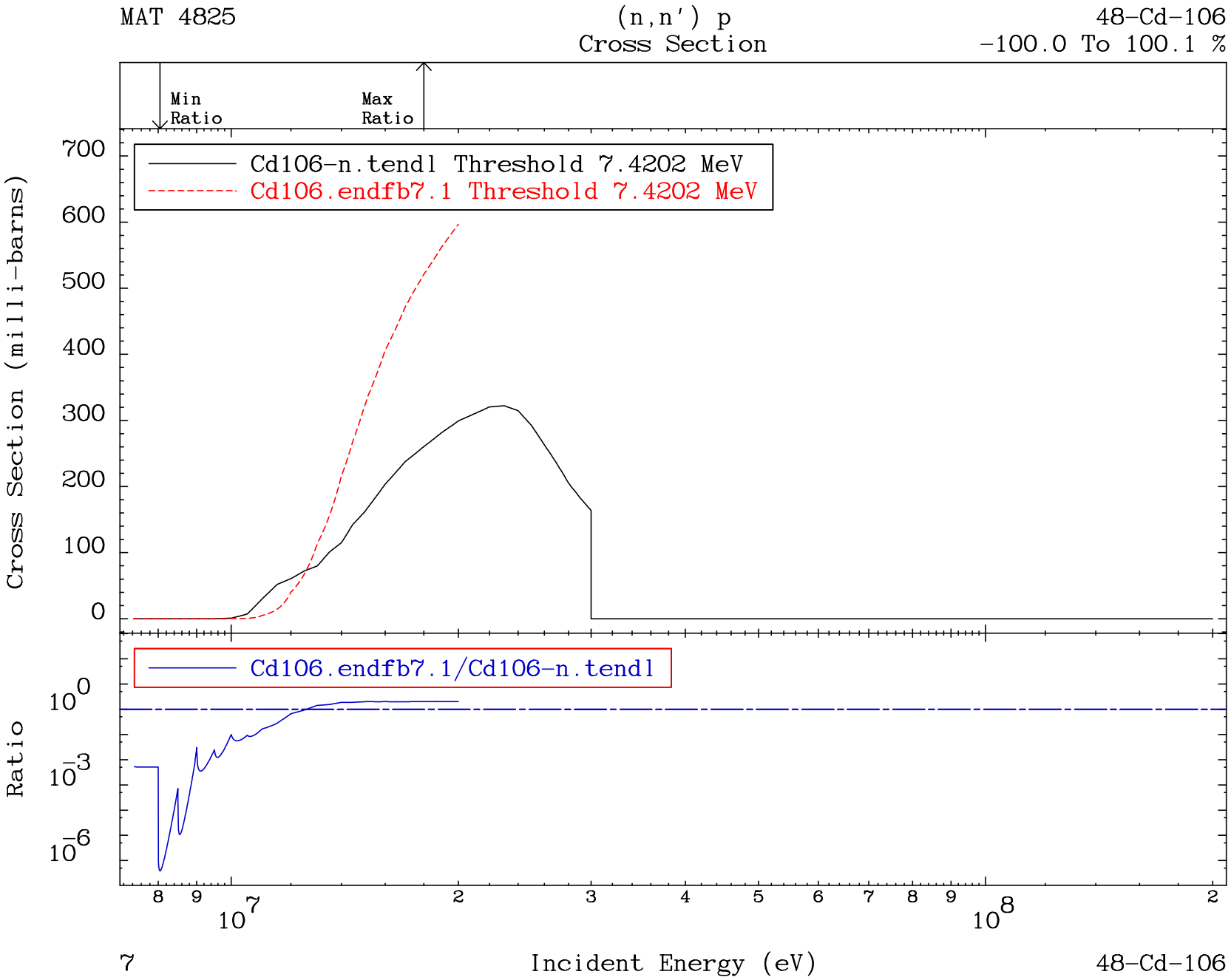

MAT 4825
Elastic
Cross Section
48-Cd-106
-99.72 To 9999. %
Max Ratio
Min Ratio
Cd106-n.tendl
Cd106.endfb7.1
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
Incident Energy (eV)
2
48-Cd-106

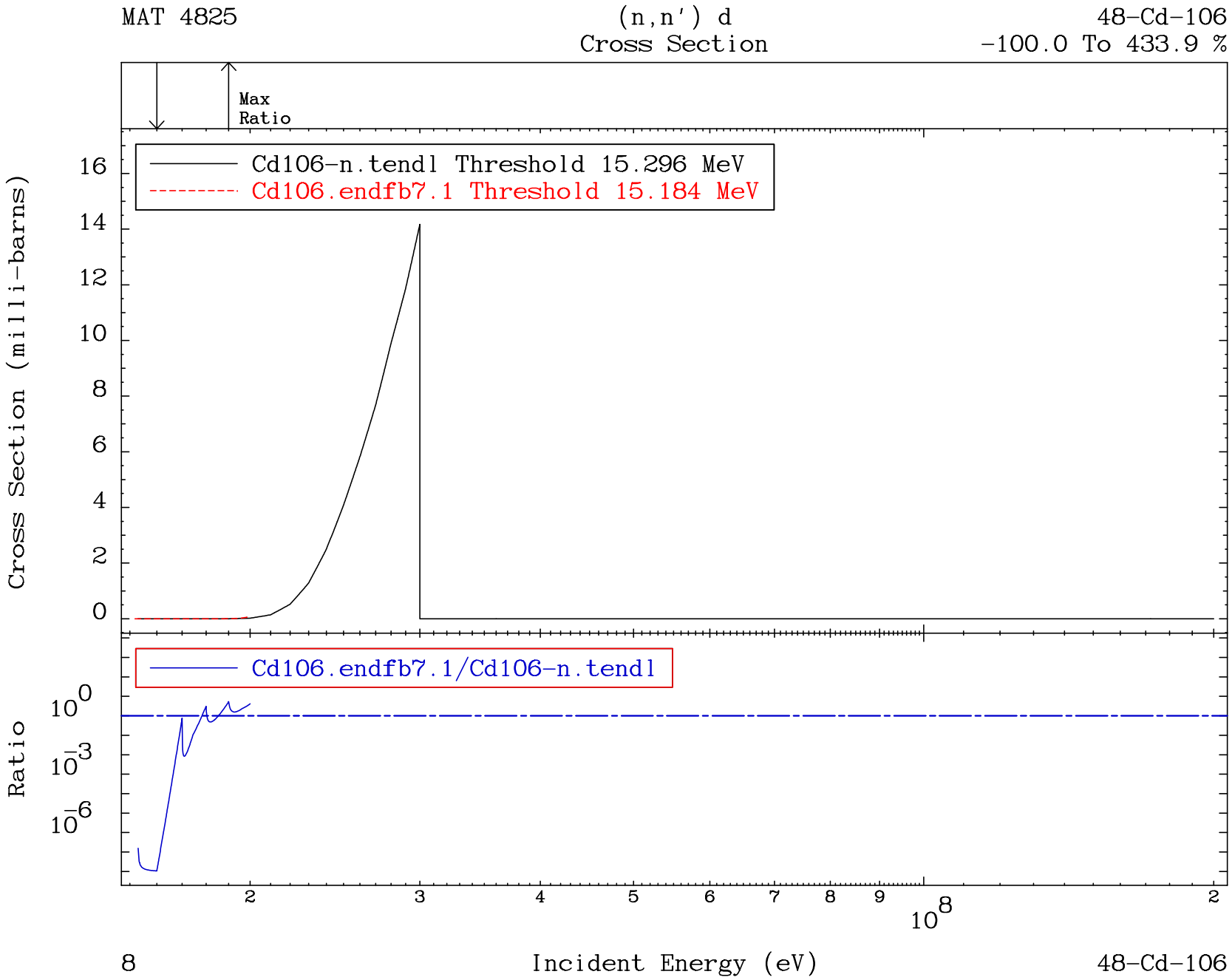

MAT 4825
Inelastic
Cross Section
48-Cd-106
-36.58 To 28.53 %
Min
Ratio
Max
Ratio
Cd106-n.tendl Threshold 638.67 keV
Cd106.endfb7.1 Threshold 638.67 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
1.4
1.2
1.0
0.8
0.6
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
48-Cd-106

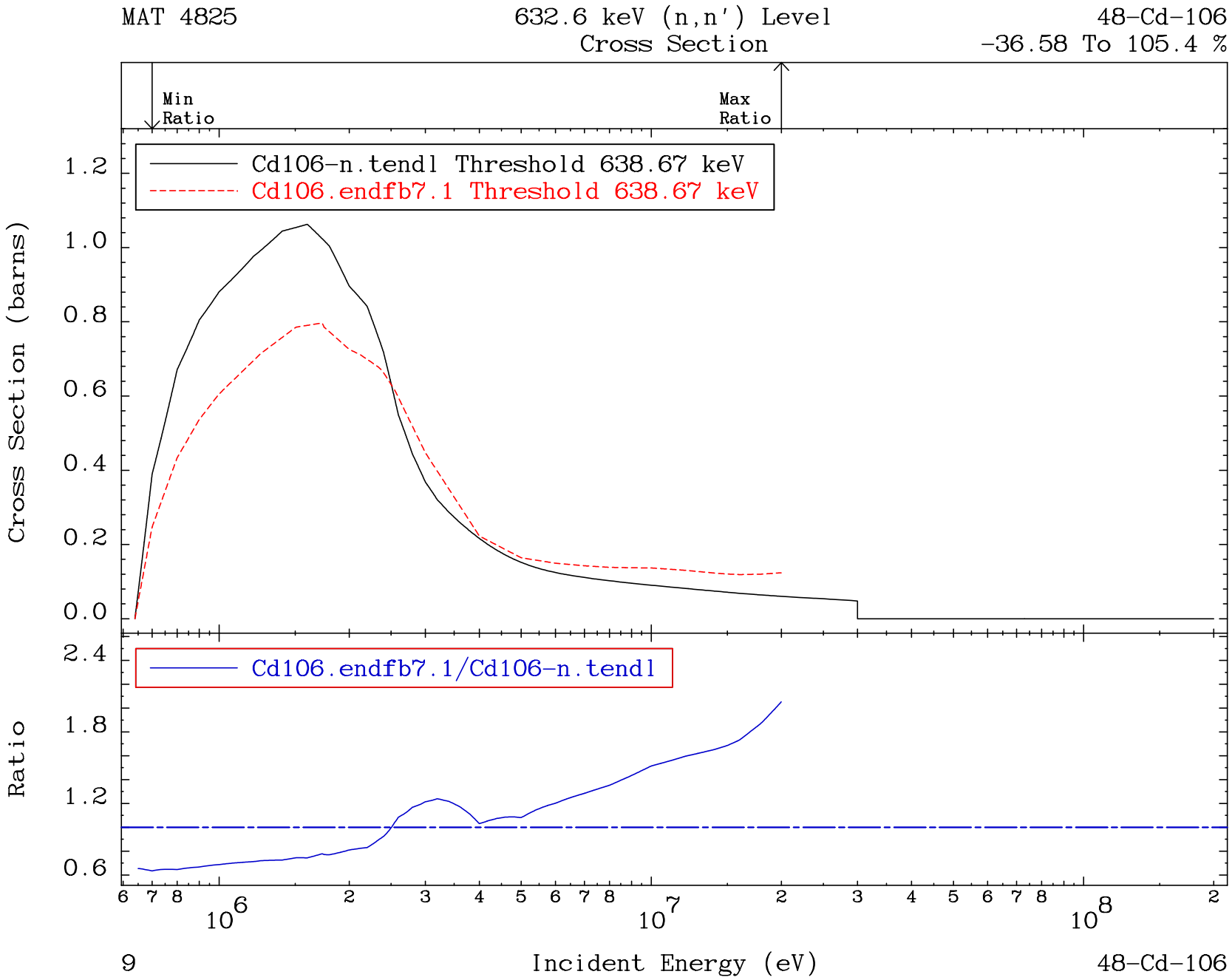

MAT 4825
(n,2n)
Cross Section
48-Cd-106
-74.75 To -6.074%
Min Ratio
Max Ratio
Cd106-n.tendl Threshold 10.973 MeV
Cd106.endfb7.1 Threshold 11.000 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
48-Cd-106

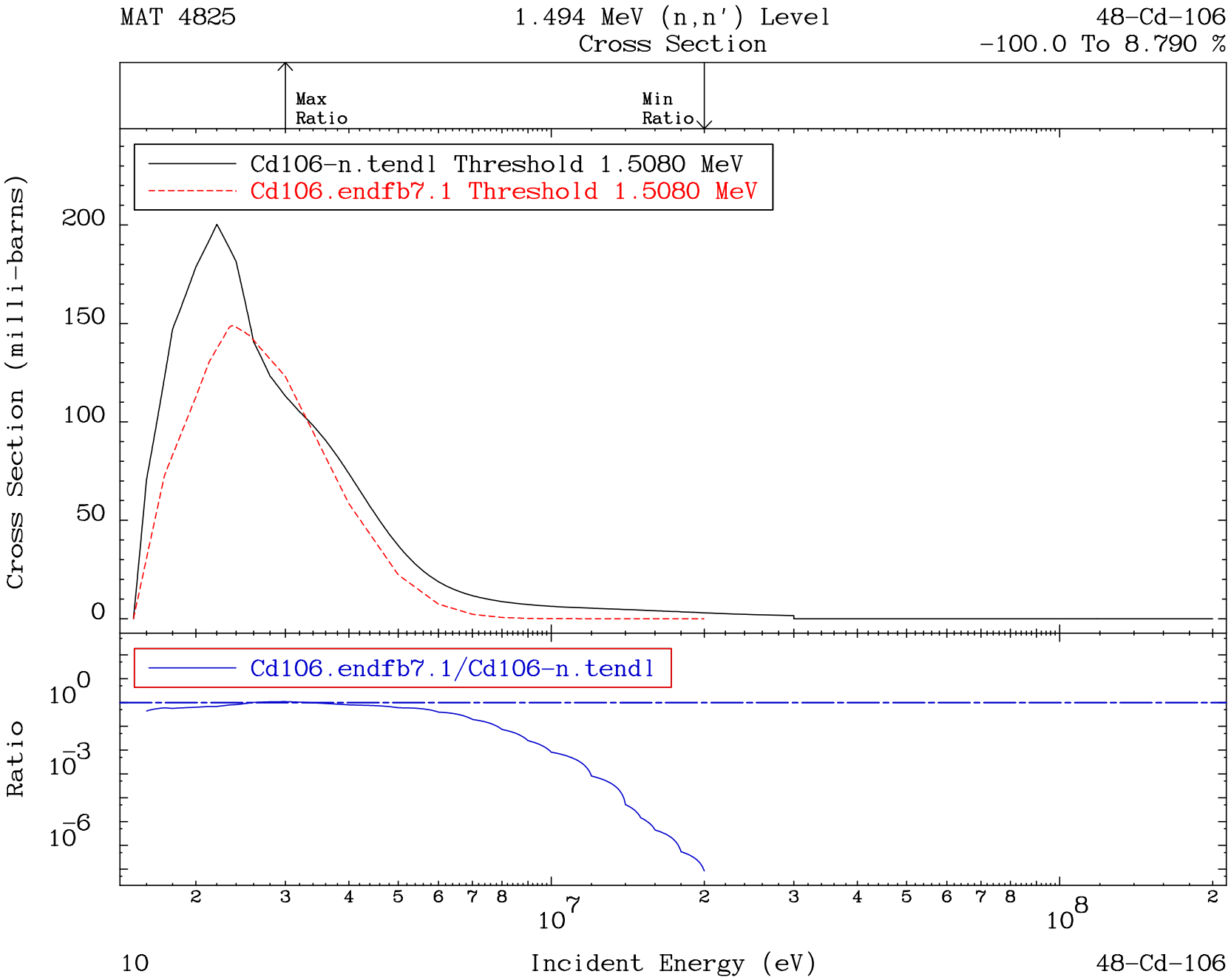

MAT 4825
(n,3n)
Cross Section
48-Cd-106
-81.28 To -10.79%
Max
Ratio
Cd106-n.tendl Threshold 19.490 MeV
Cd106.endfb7.1 Threshold 19.618 MeV
Cross Section (milli-barns)
400
300
200
100
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
48-Cd-106

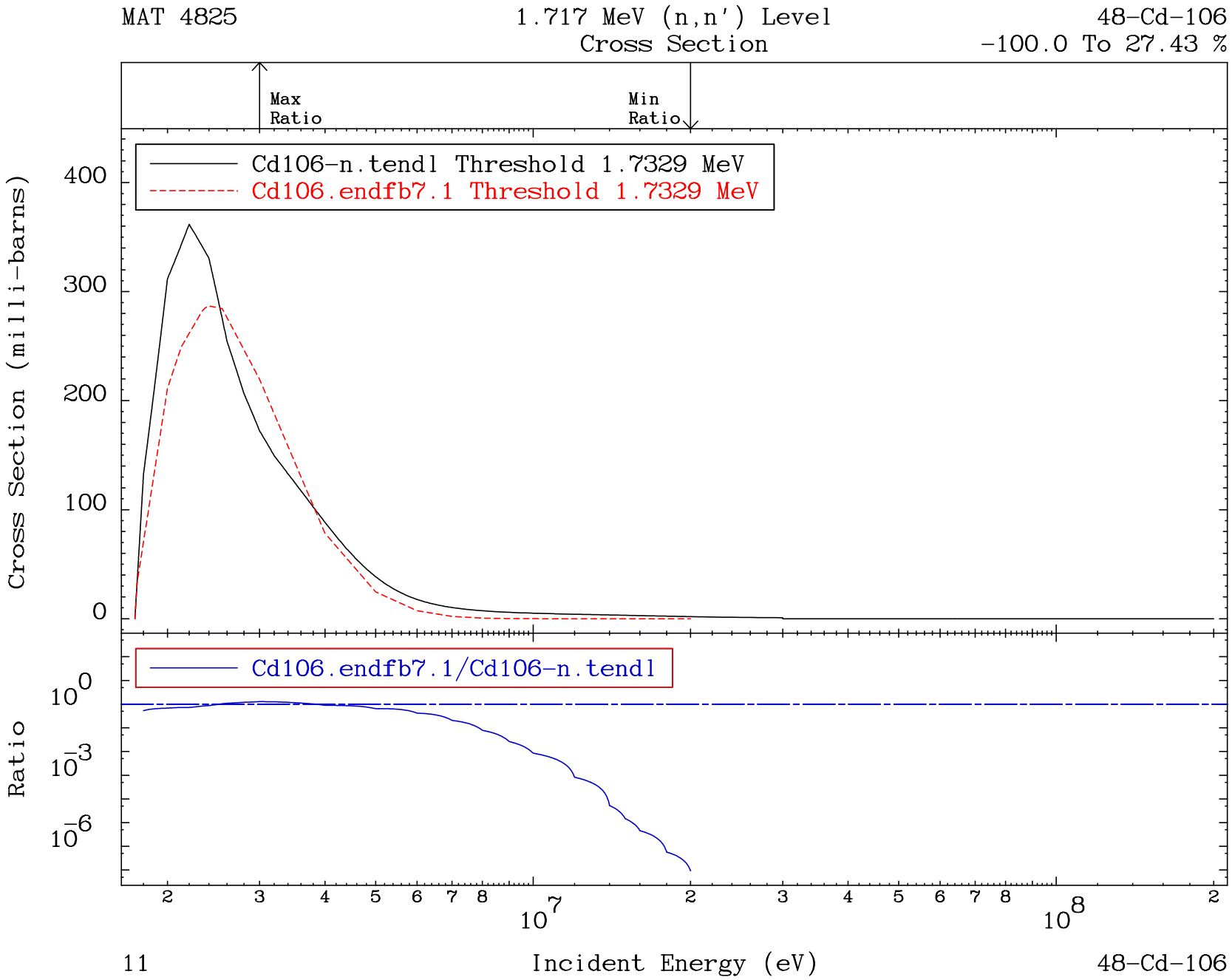

MAT 4825
(n,n') α
Cross Section
48-Cd-106
-98.19 To 9999. %
Max Ratio
Min Ratio
Cd106-n.tendl Threshold 1.6414 MeV
Cd106.endfb7.1 Threshold 1.6434 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^2
10^0
10^-2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
6
Incident Energy (eV)
48-Cd-106

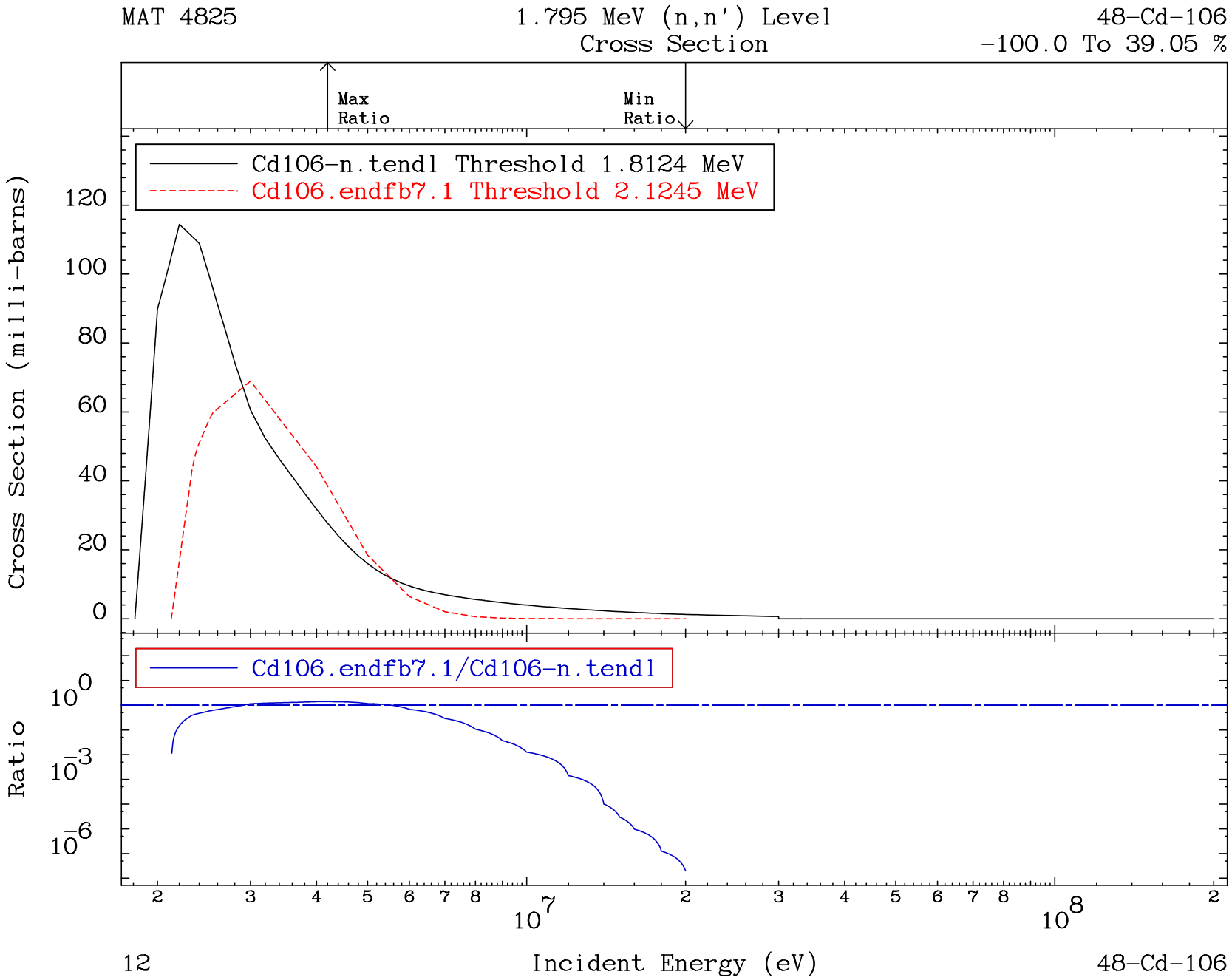

MAT 4825
(n,n') p
Cross Section
48-Cd-106
-100.0 To 100.1 %
Min Ratio
Max Ratio
Cd106-n.tendl Threshold 7.4202 MeV
Cd106.endfb7.1 Threshold 7.4202 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^0
10^-3
10^-6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
48-Cd-106

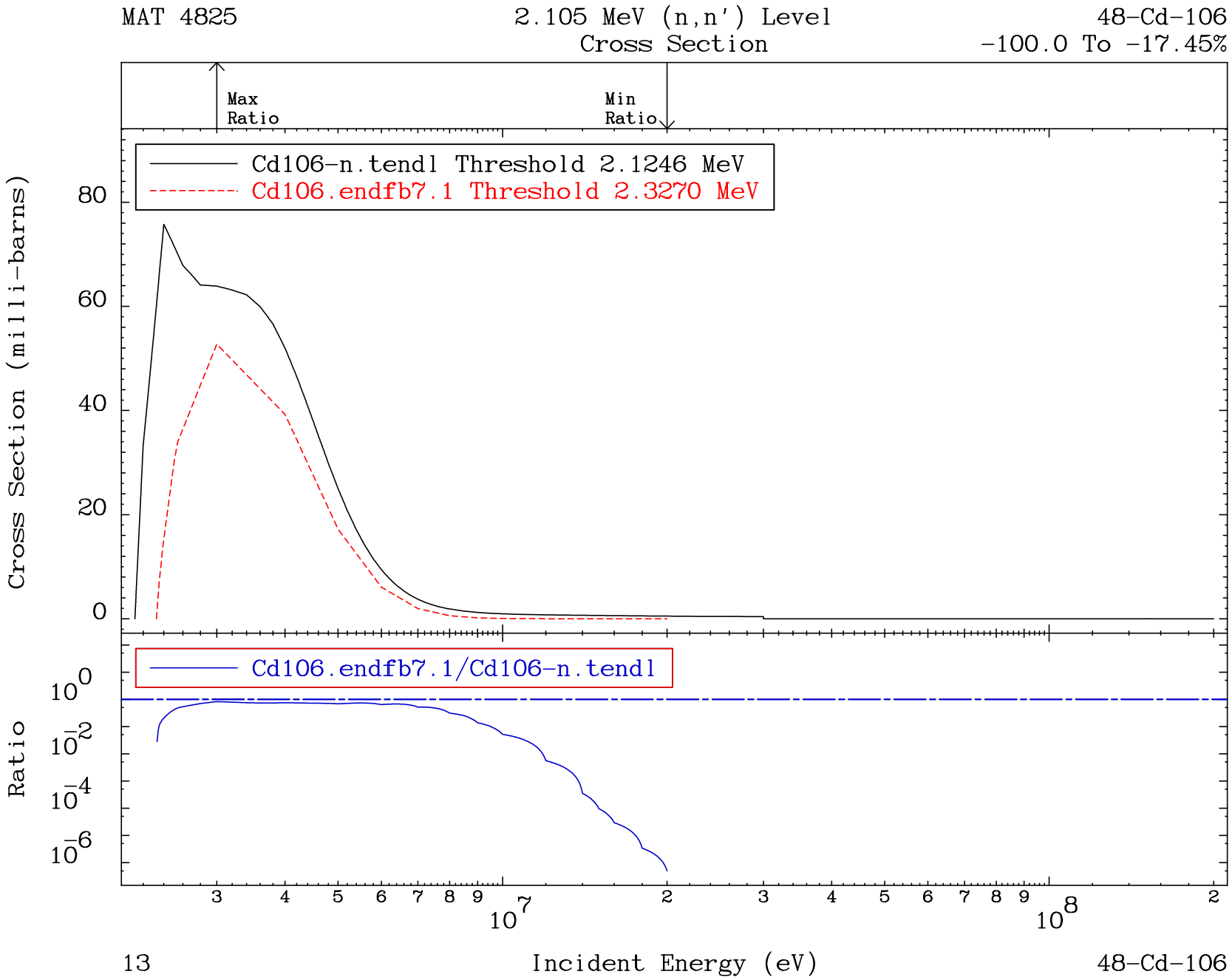

MAT 4825
(n,n') d
Cross Section
48-Cd-106
-100.0 To 433.9 %
Max
Ratio
Cd106-n.tendl Threshold 15.296 MeV
Cd106.endfb7.1 Threshold 15.184 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
48-Cd-106

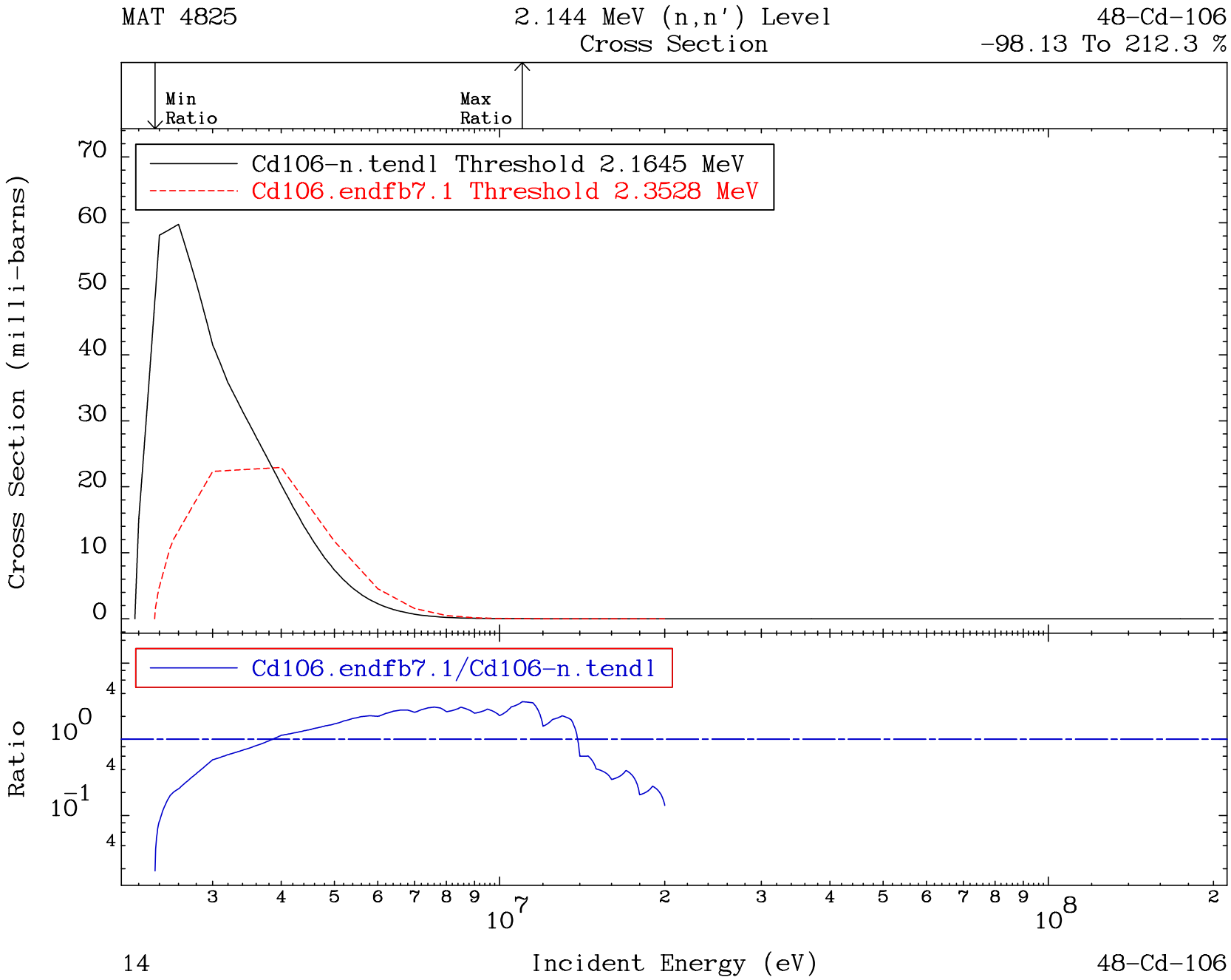

MAT 4825
632.6 keV (n,n') Level
Cross Section
48-Cd-106
-36.58 To 105.4 %
Min
Ratio
Max
Ratio
Cd106-n.tendl Threshold 638.67 keV
Cd106.endfb7.1 Threshold 638.67 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
2.4
1.8
1.2
0.6
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
48-Cd-106

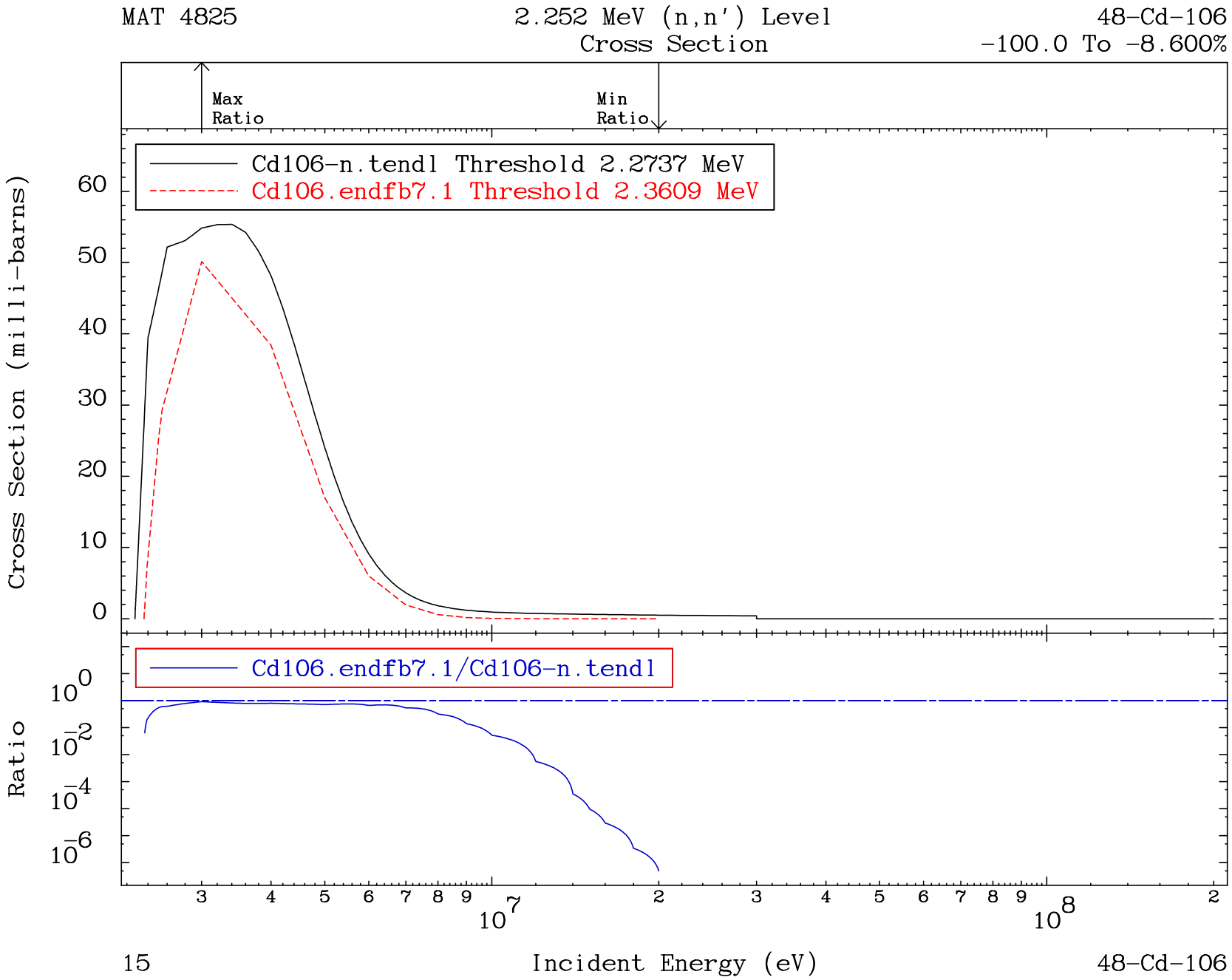

MAT 4825
1.494 MeV (n,n') Level
Cross Section
48-Cd-106
-100.0 To 8.790 %
Max
Ratio
Min
Ratio
Cd106-n.tendl Threshold 1.5080 MeV
Cd106.endfb7.1 Threshold 1.5080 MeV
Cross Section (milli-barns)
200
150
100
50
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
48-Cd-106

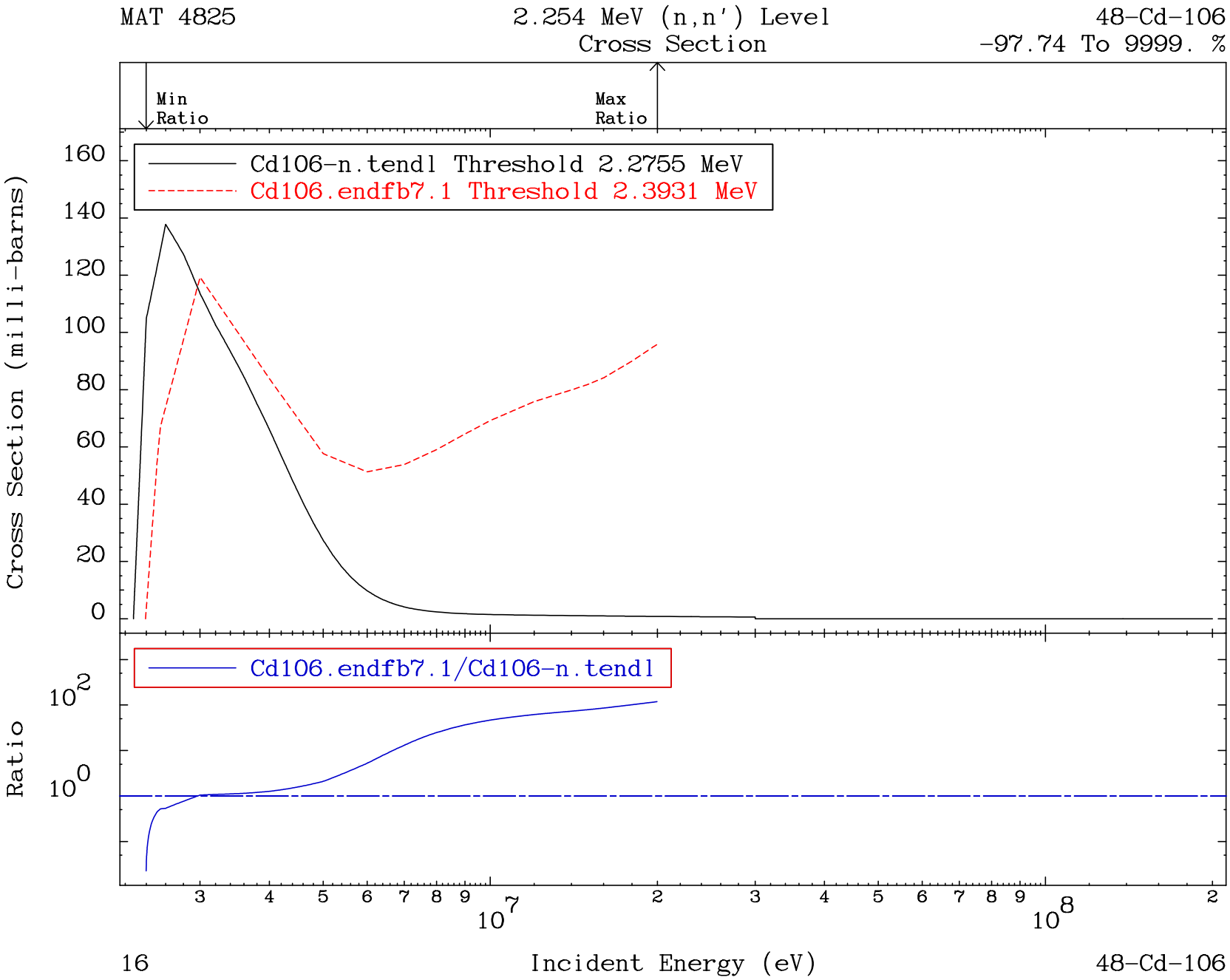

MAT 4825
1.717 MeV (n,n') Level
Cross Section
48-Cd-106
-100.0 To 27.43 %
Max
Ratio
Min
Ratio
Cd106-n.tendl Threshold 1.7329 MeV
Cd106.endfb7.1 Threshold 1.7329 MeV
Cross Section (milli-barns)
400
300
200
100
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
11
Incident Energy (eV)
48-Cd-106

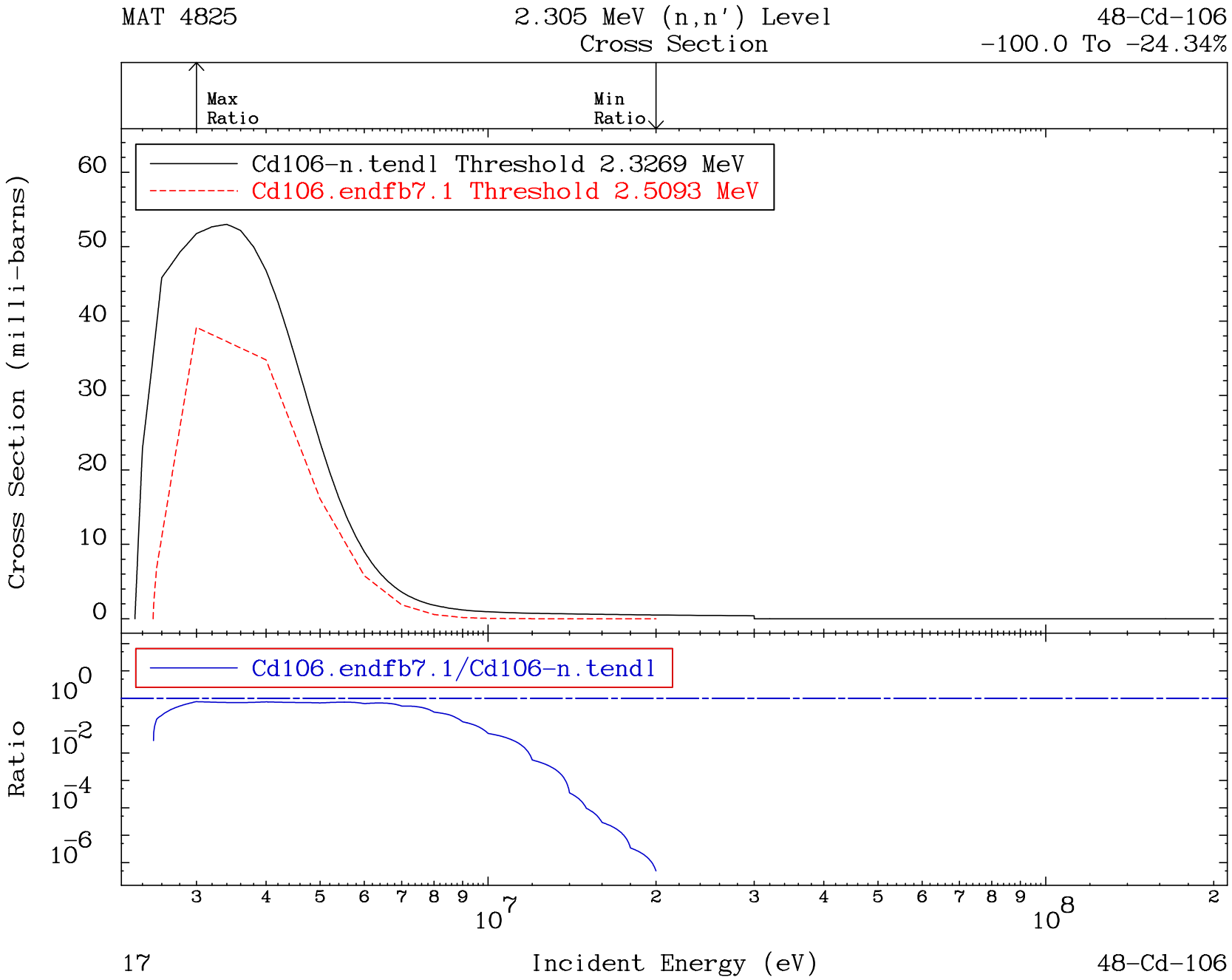

MAT 4825
1.795 MeV (n,n') Level
Cross Section
48-Cd-106
-100.0 To 39.05 %
Max
Ratio
Min
Ratio
Cd106-n.tendl Threshold 1.8124 MeV
Cd106.endfb7.1 Threshold 2.1245 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
48-Cd-106

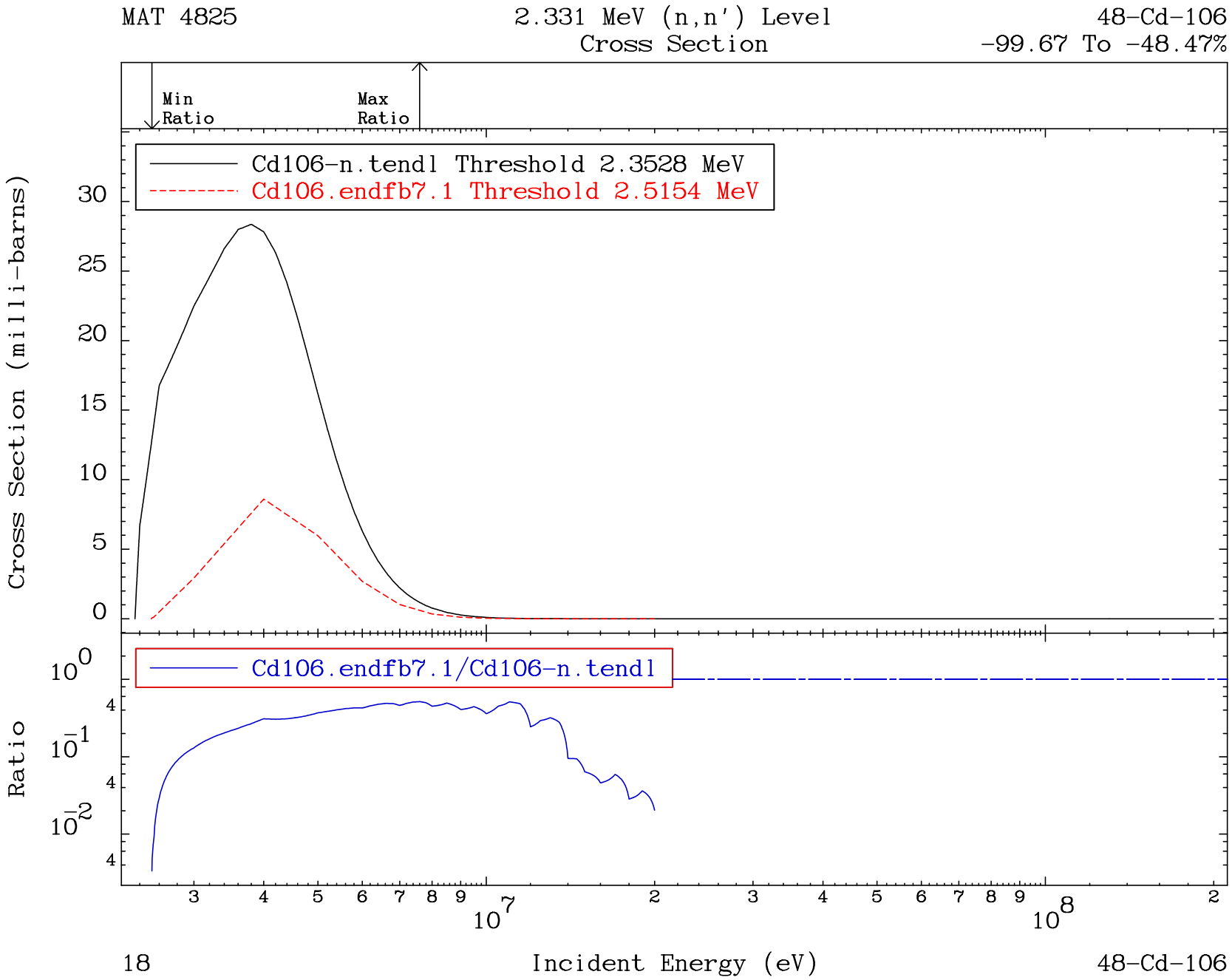

MAT 4825
2.105 MeV (n,n') Level
Cross Section
48-Cd-106
-100.0 To -17.45%
Max
Ratio
Min
Ratio
Cd106-n.tendl Threshold 2.1246 MeV
Cd106.endfb7.1 Threshold 2.3270 MeV
Cross Section (milli-barns)
80
60
40
20
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^0
10^-2
10^-4
10^-6
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
13
Incident Energy (eV)
48-Cd-106

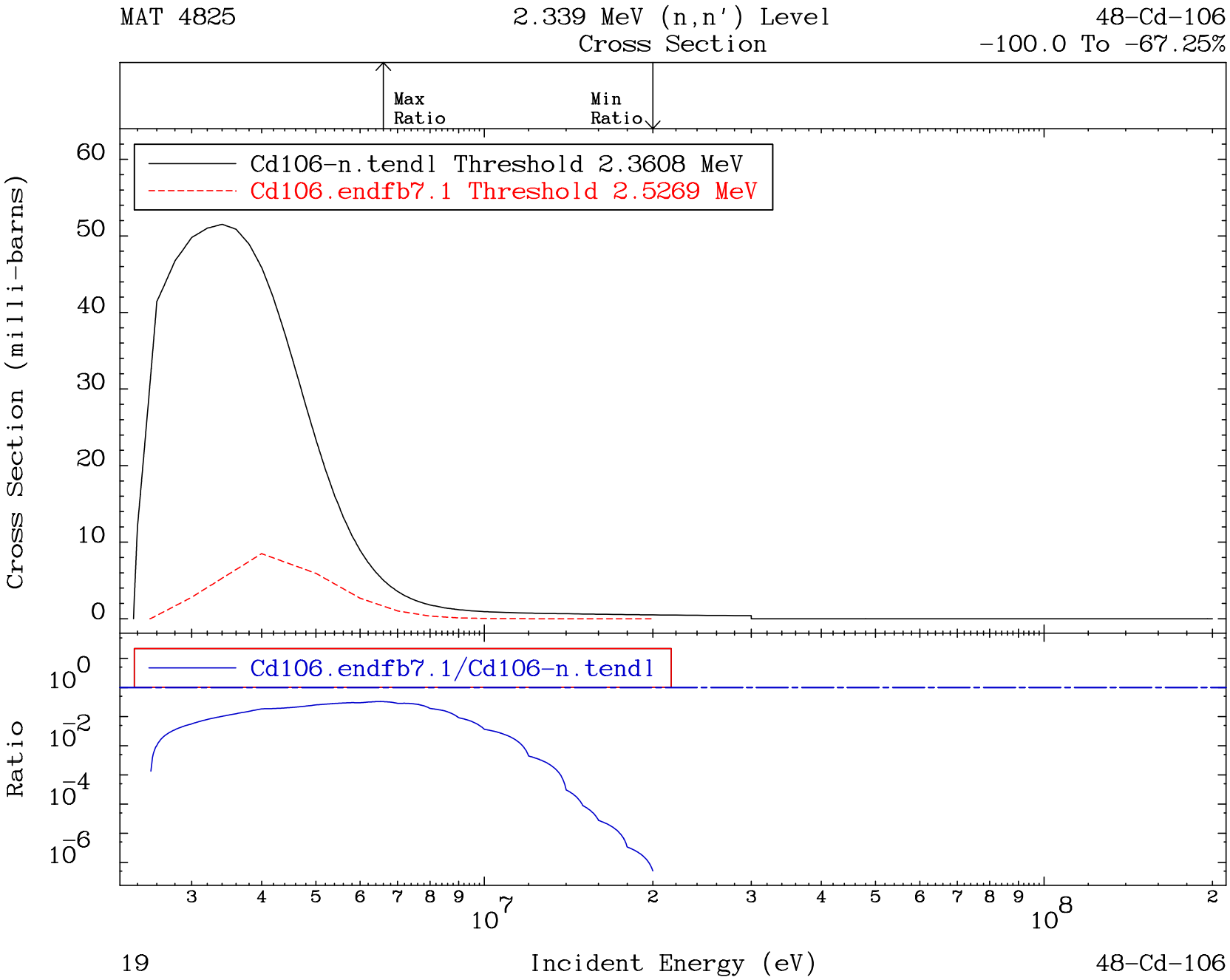

MAT 4825
2.144 MeV (n,n') Level
Cross Section
48-Cd-106
-98.13 To 212.3 %
Min Ratio
Max Ratio
Cd106-n.tendl Threshold 2.1645 MeV
Cd106.endfb7.1 Threshold 2.3528 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^{0}
10^{-1}
4
3 4 5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
14
Incident Energy (eV)
48-Cd-106

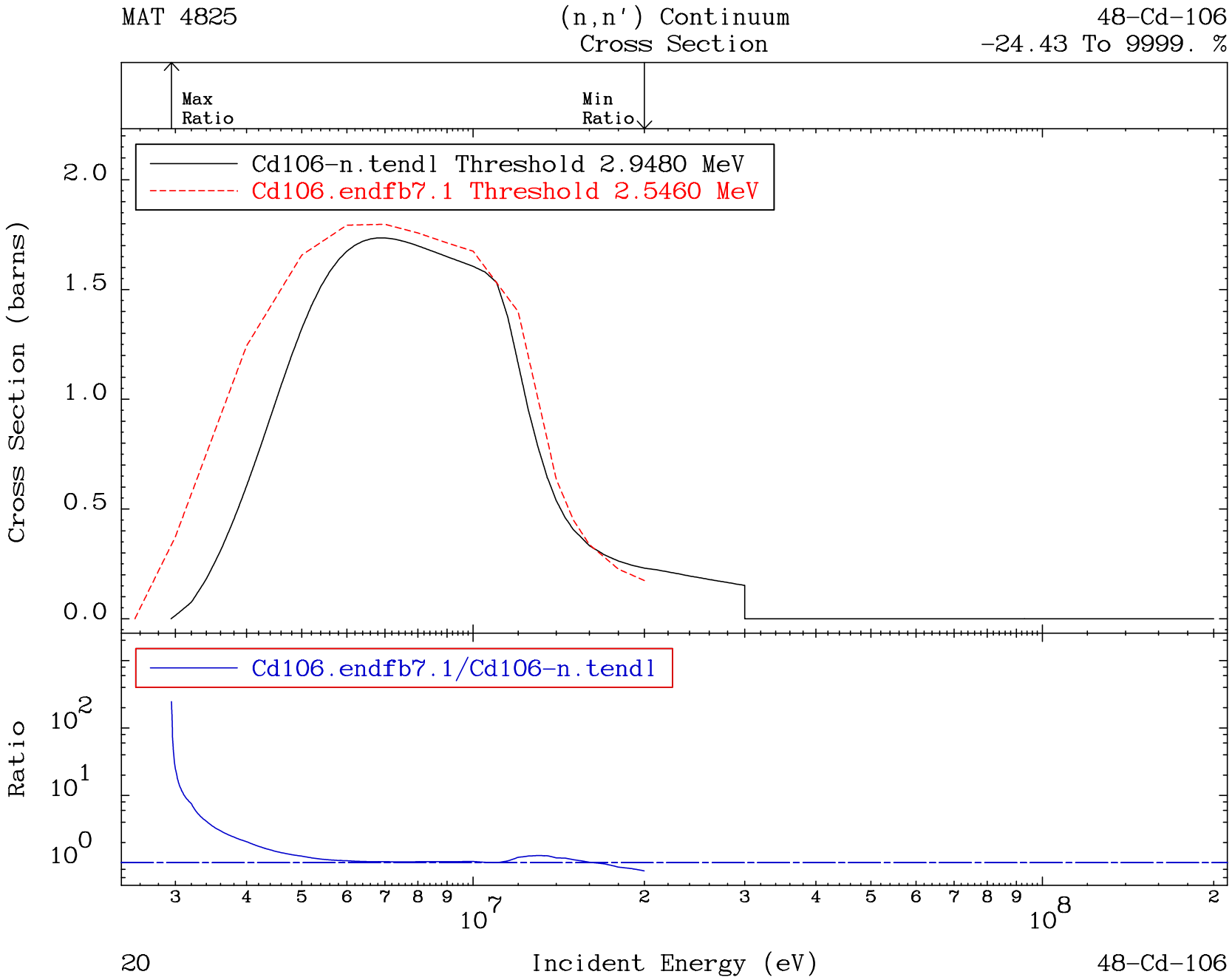

MAT 4825
2.252 MeV (n,n') Level
Cross Section
48-Cd-106
-100.0 To -8.600%
Max Ratio
Min Ratio
Cd106-n.tendl Threshold 2.2737 MeV
Cd106.endfb7.1 Threshold 2.3609 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^0
10^-2
10^-4
10^-6
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
15
Incident Energy (eV)
48-Cd-106

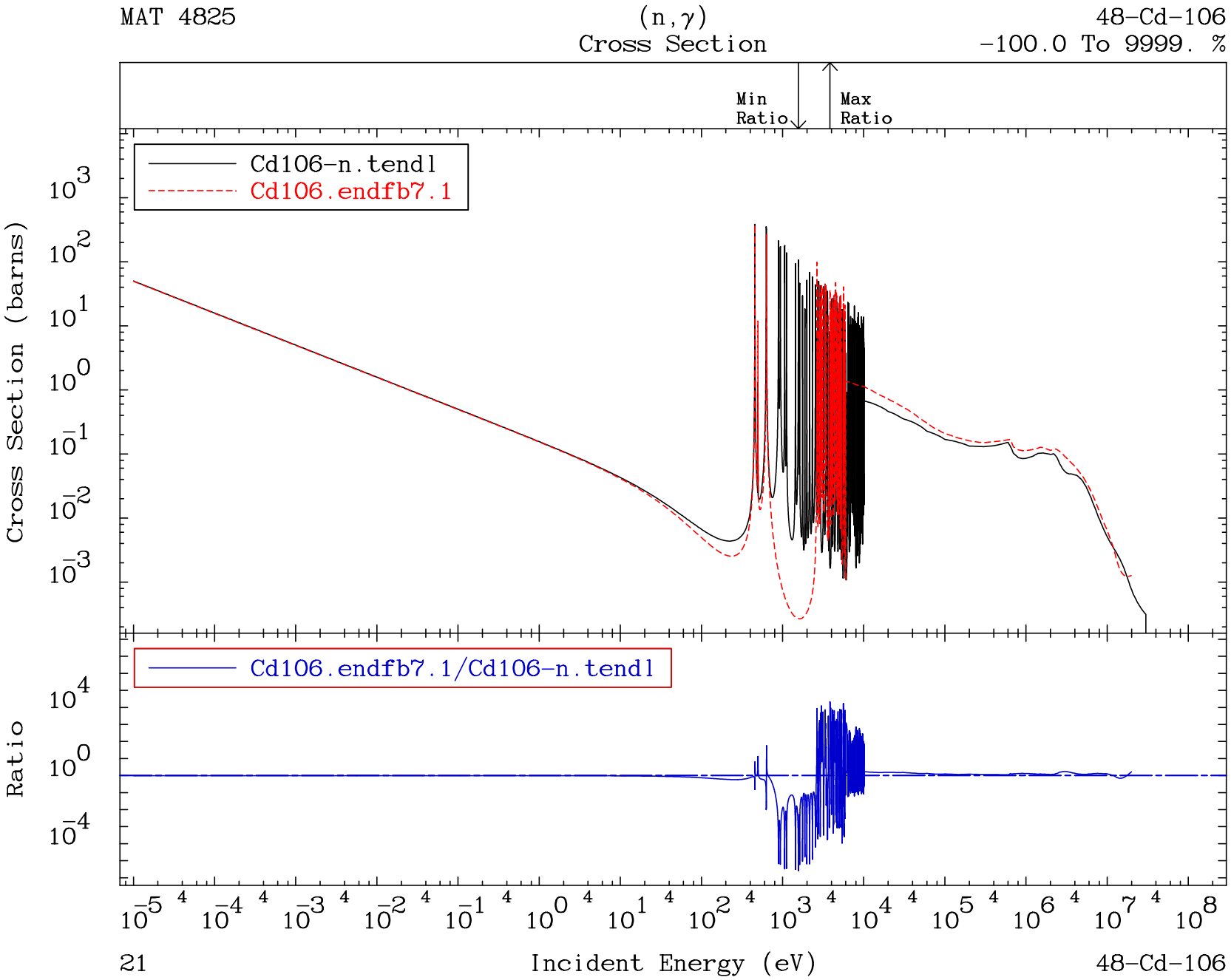

MAT 4825
2.254 MeV (n,n') Level
Cross Section
48-Cd-106
-97.74 To 9999. %
Min Ratio
Max Ratio
Cd106-n.tendl Threshold 2.2755 MeV
Cd106.endfb7.1 Threshold 2.3931 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
16
Incident Energy (eV)
48-Cd-106

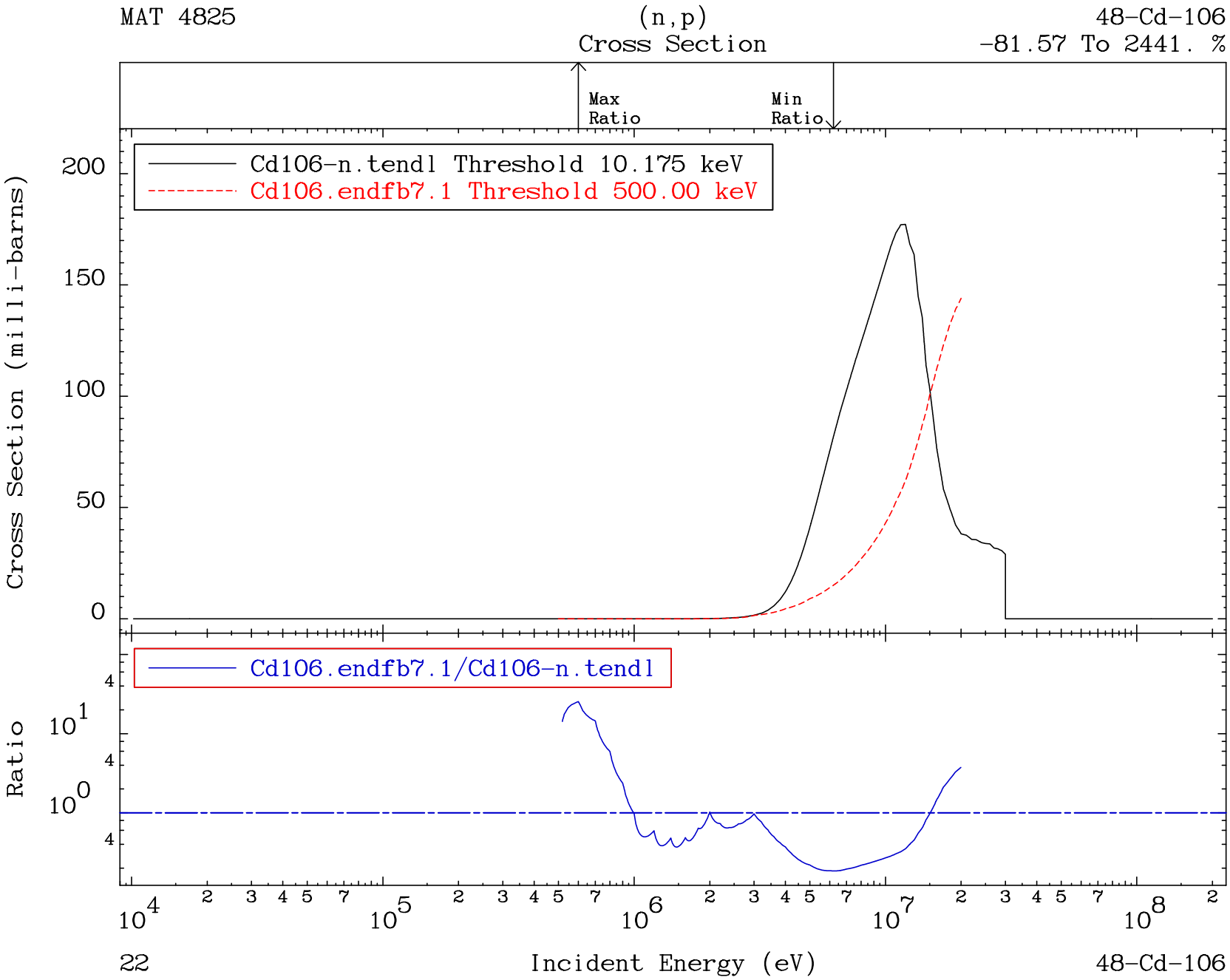

MAT 4825
2.305 MeV (n,n') Level
Cross Section
48-Cd-106
-100.0 To -24.34%
Max
Ratio
Min
Ratio
Cd106-n.tendl Threshold 2.3269 MeV
Cd106.endfb7.1 Threshold 2.5093 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^0
10^-2
10^-4
10^-6
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
17
Incident Energy (eV)
48-Cd-106

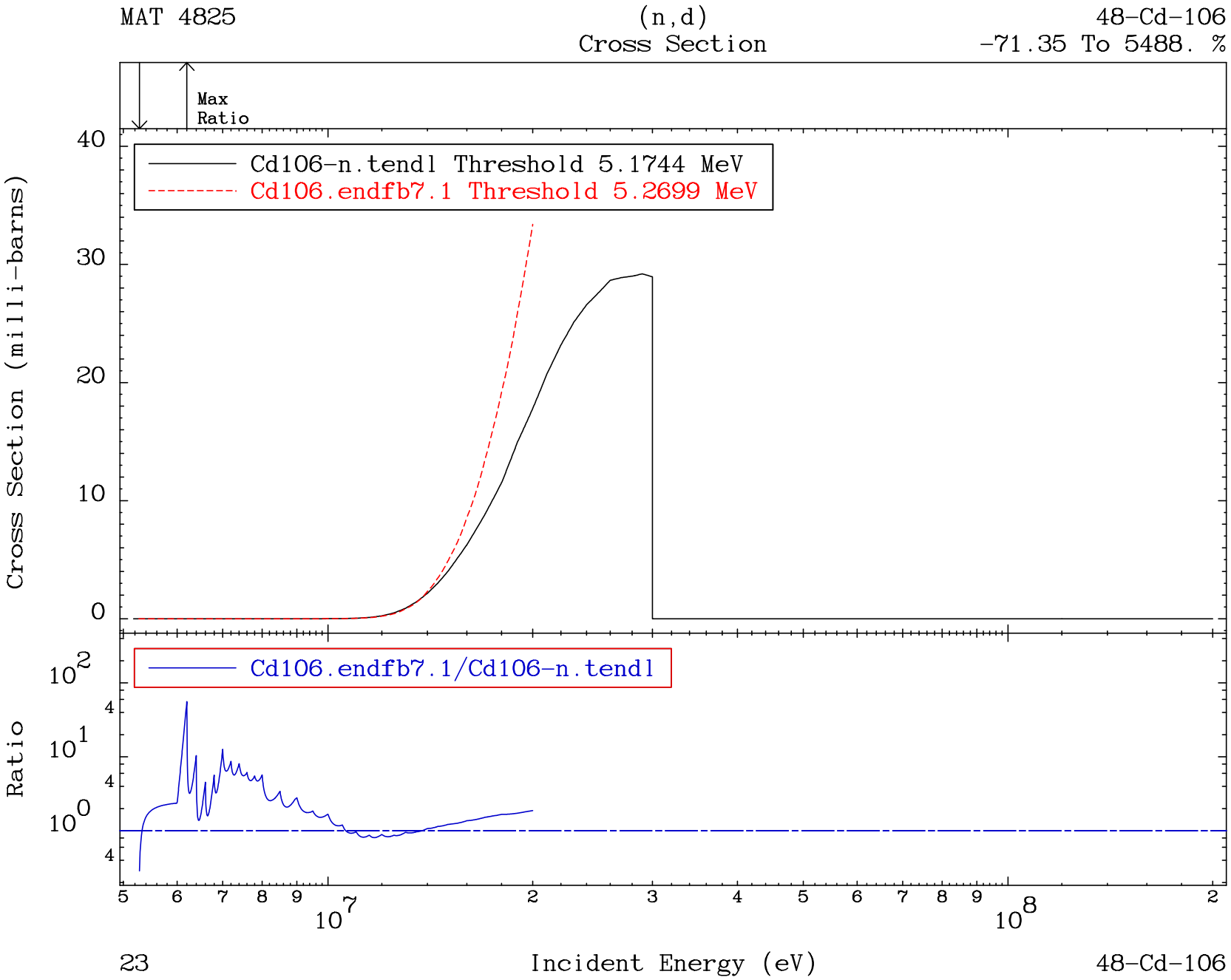

MAT 4825
2.331 MeV (n,n') Level
Cross Section
48-Cd-106
-99.67 To -48.47%
Min Ratio
Max Ratio
Cd106-n.tendl Threshold 2.3528 MeV
Cd106.endfb7.1 Threshold 2.5154 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
48-Cd-106

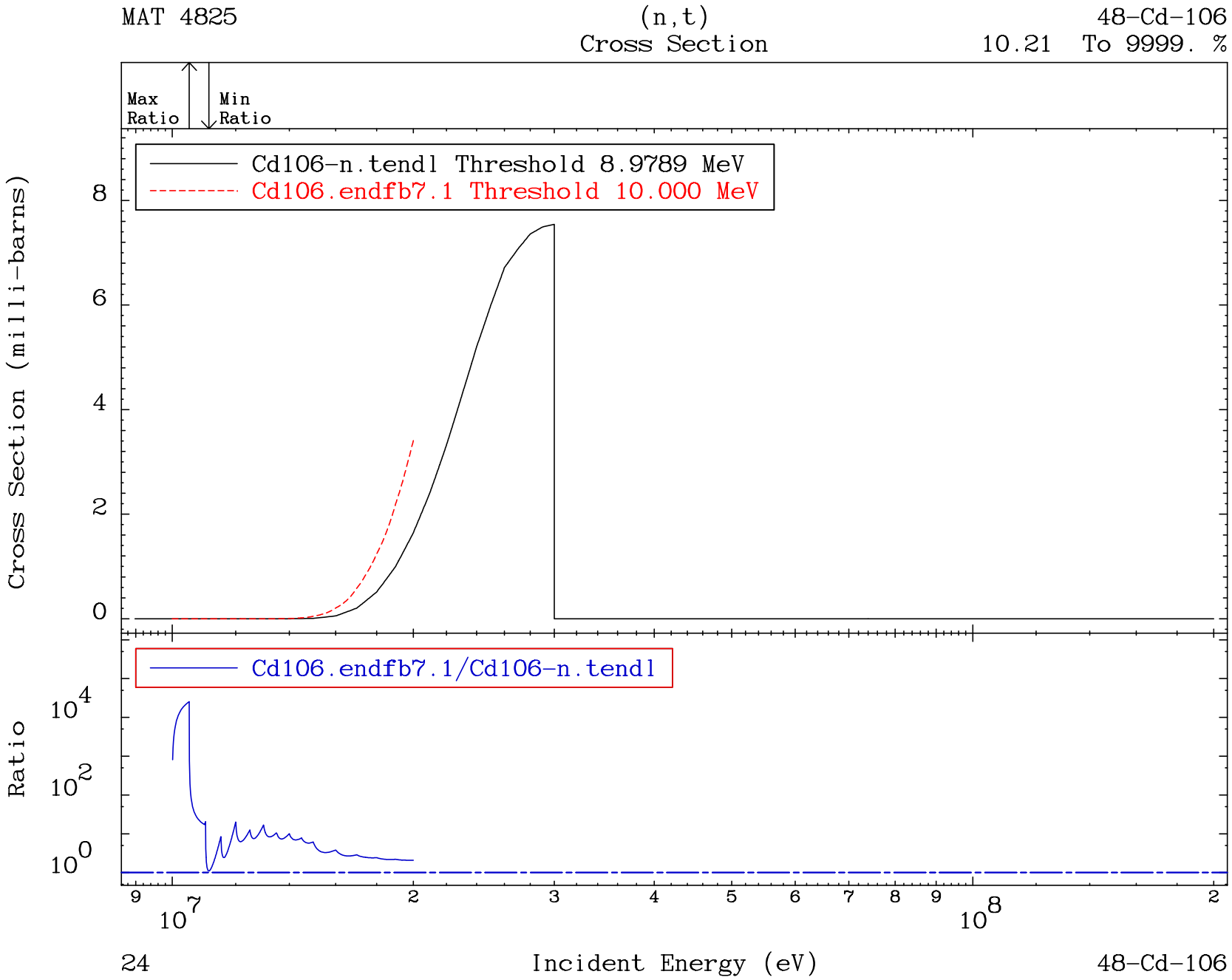

MAT 4825
2.339 MeV (n,n') Level
Cross Section
48-Cd-106
-100.0 To -67.25%
Max Ratio
Min Ratio
Cd106-n.tendl Threshold 2.3608 MeV
Cd106.endfb7.1 Threshold 2.5269 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^0
10^-2
10^-4
10^-6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
48-Cd-106

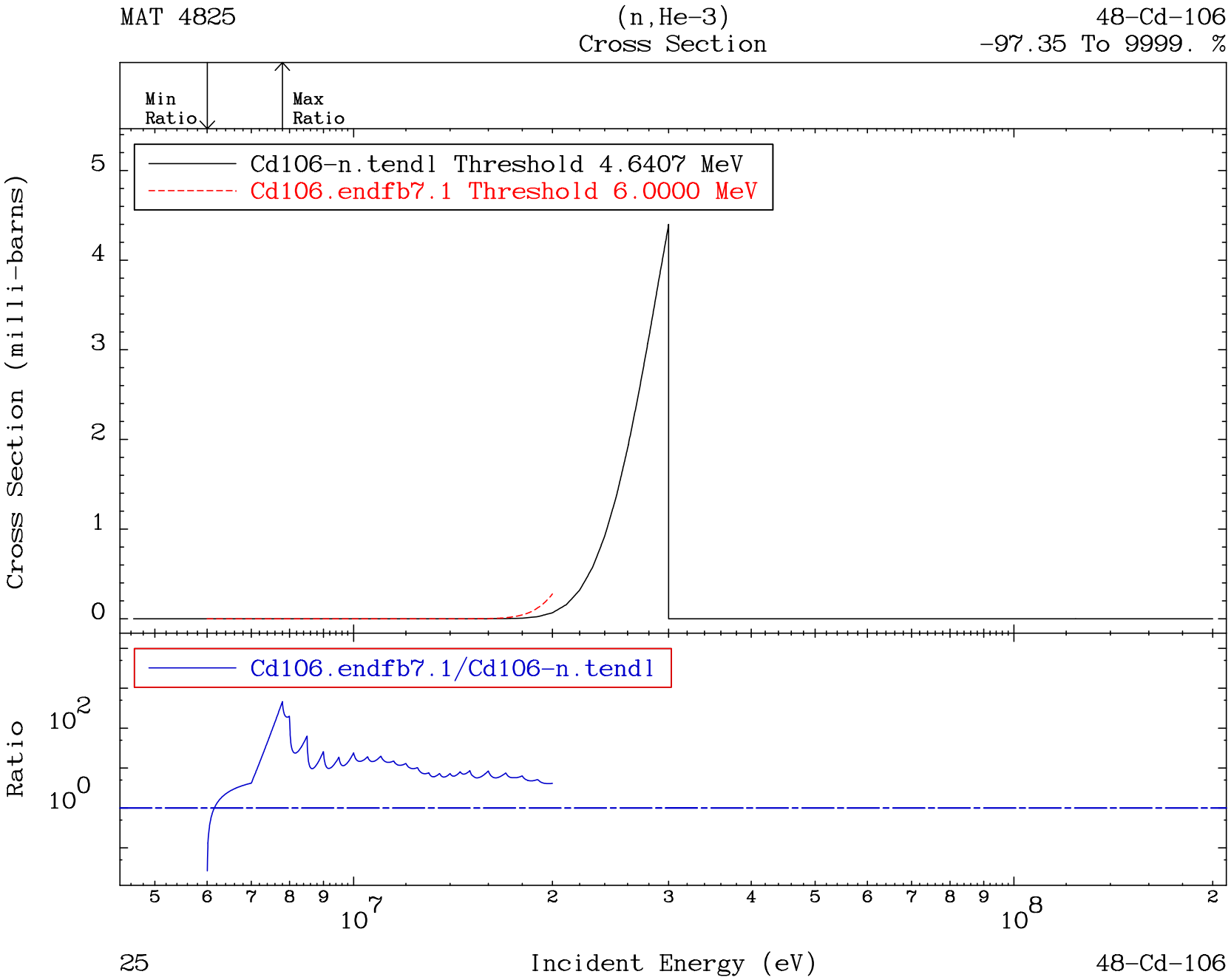

MAT 4825
(n,n') Continuum
Cross Section
48-Cd-106
-24.43 To 9999. %
Max Ratio
Min Ratio
Cd106-n.tendl Threshold 2.9480 MeV
Cd106.endfb7.1 Threshold 2.5460 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
48-Cd-106

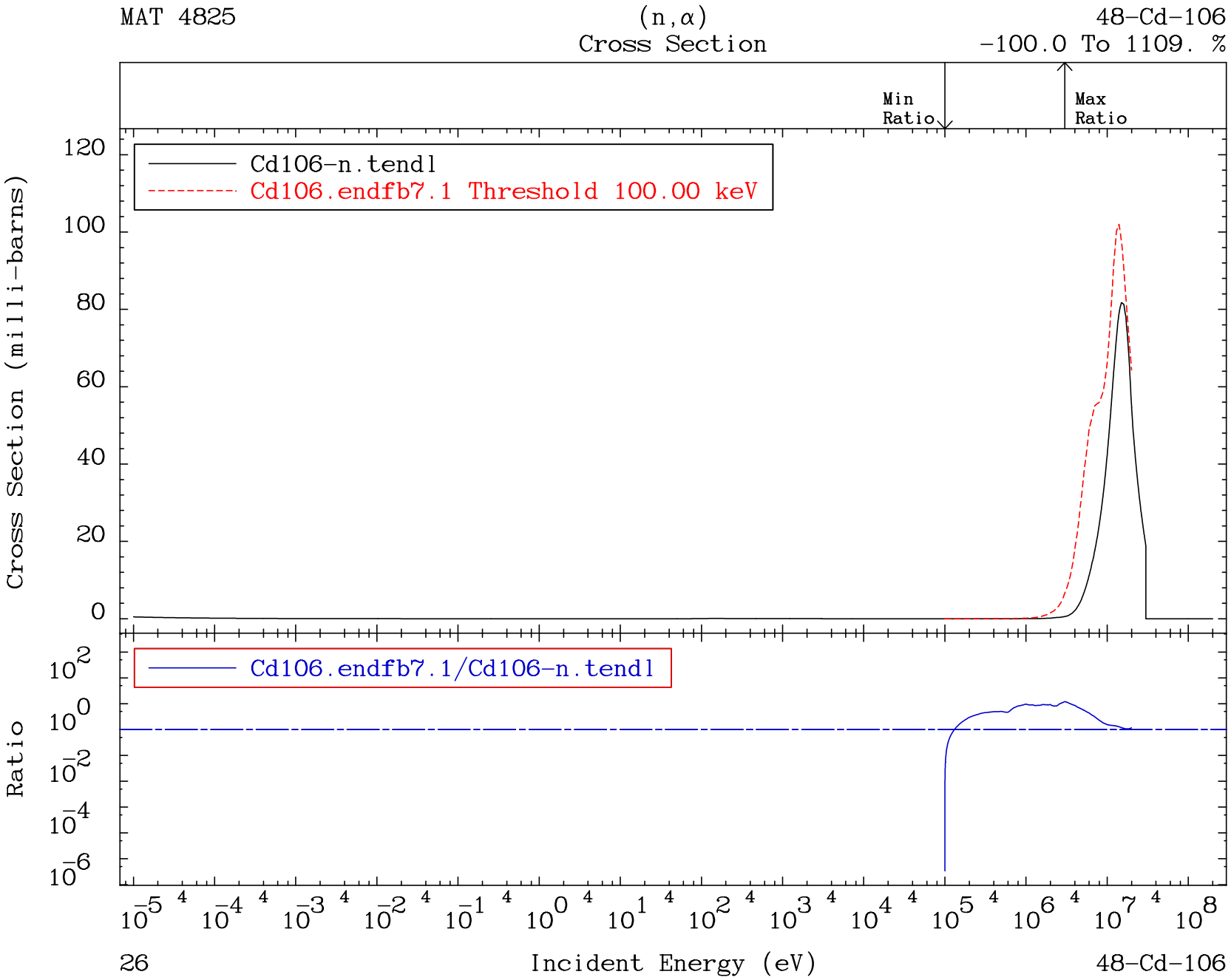

MAT 4825
(n,γ)
Cross Section
48-Cd-106
-100.0 To 9999. %
Min Ratio
Max Ratio
Cd106-n.tendl
Cd106.endfb7.1
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
21
Incident Energy (eV)
48-Cd-106

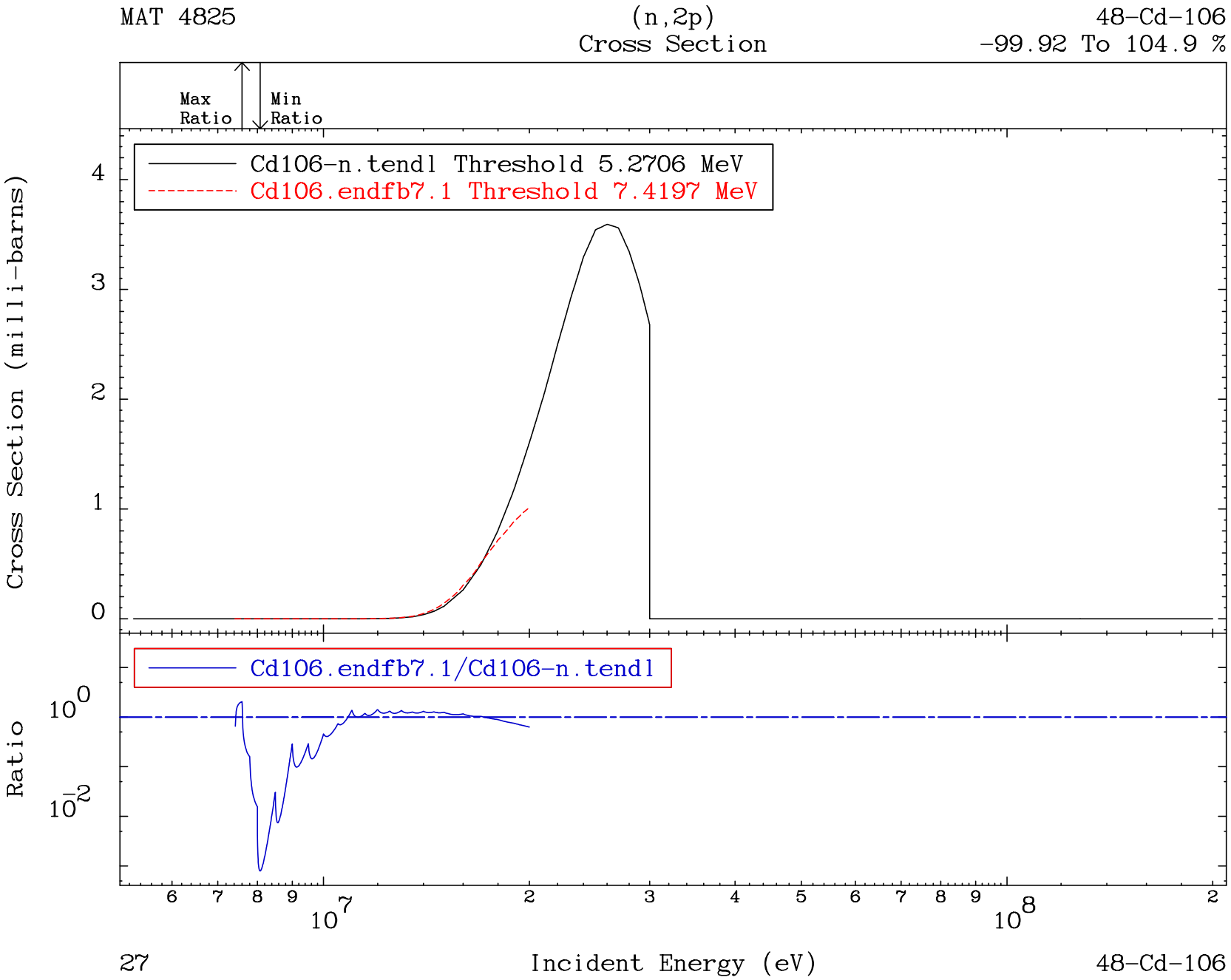

MAT 4825
(n,p)
Cross Section
48-Cd-106
-81.57 To 2441. %
Max Ratio
Min Ratio
Cd106-n.tendl Threshold 10.175 keV
Cd106.endfb7.1 Threshold 500.00 keV
Cross Section (milli-barns)
200
150
100
50
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^1
10^0
4
10^4
10^5
10^6
10^7
10^8
2 3 4 5 7
22
Incident Energy (eV)
48-Cd-106

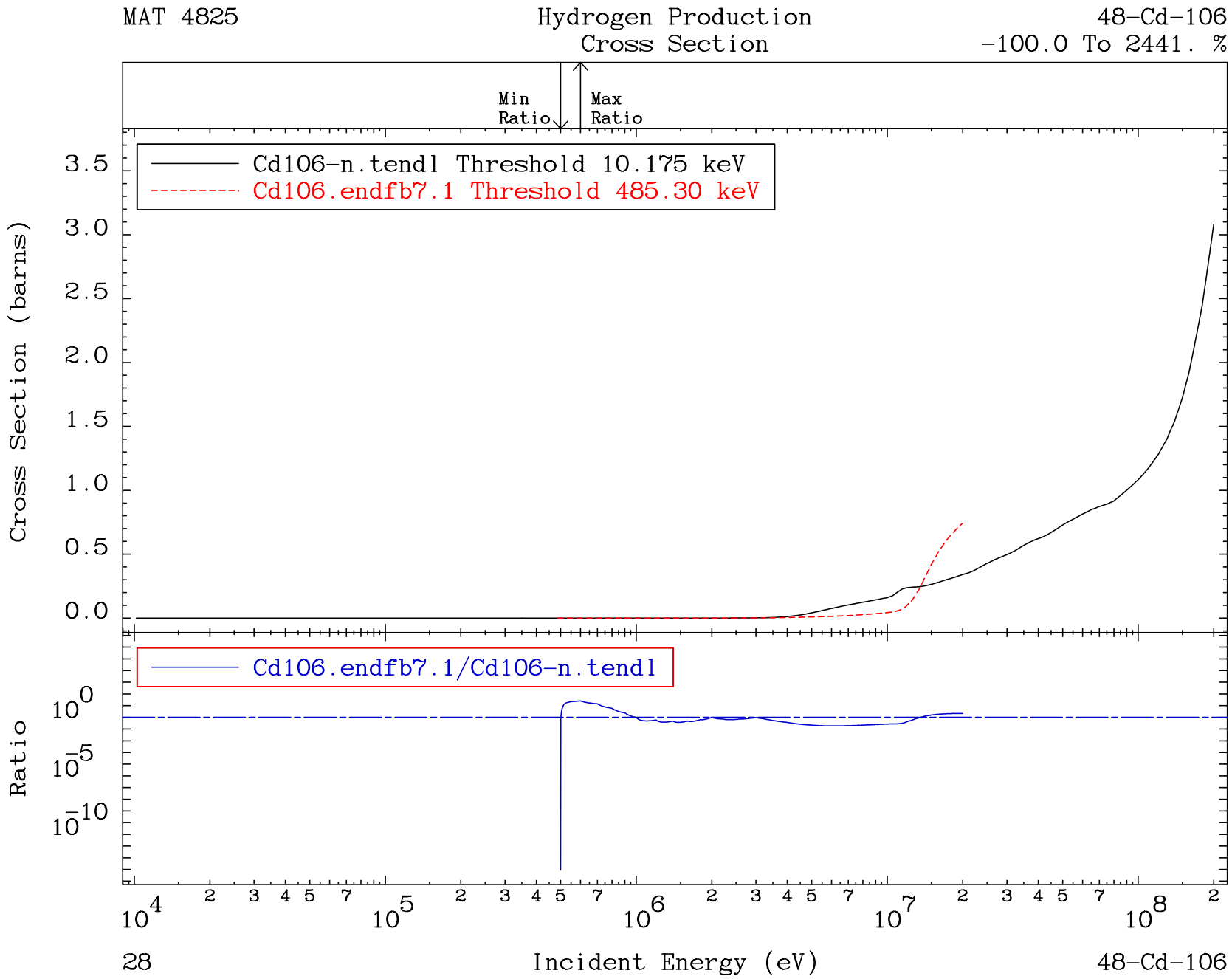

MAT 4825
(n,d)
Cross Section
48-Cd-106
-71.35 To 5488. %
Max
Ratio
Cd106-n.tendl Threshold 5.1744 MeV
Cd106.endfb7.1 Threshold 5.2699 MeV
Cross Section (milli-barns)
40
30
20
10
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^2
10^1
10^0
4
4
4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
48-Cd-106

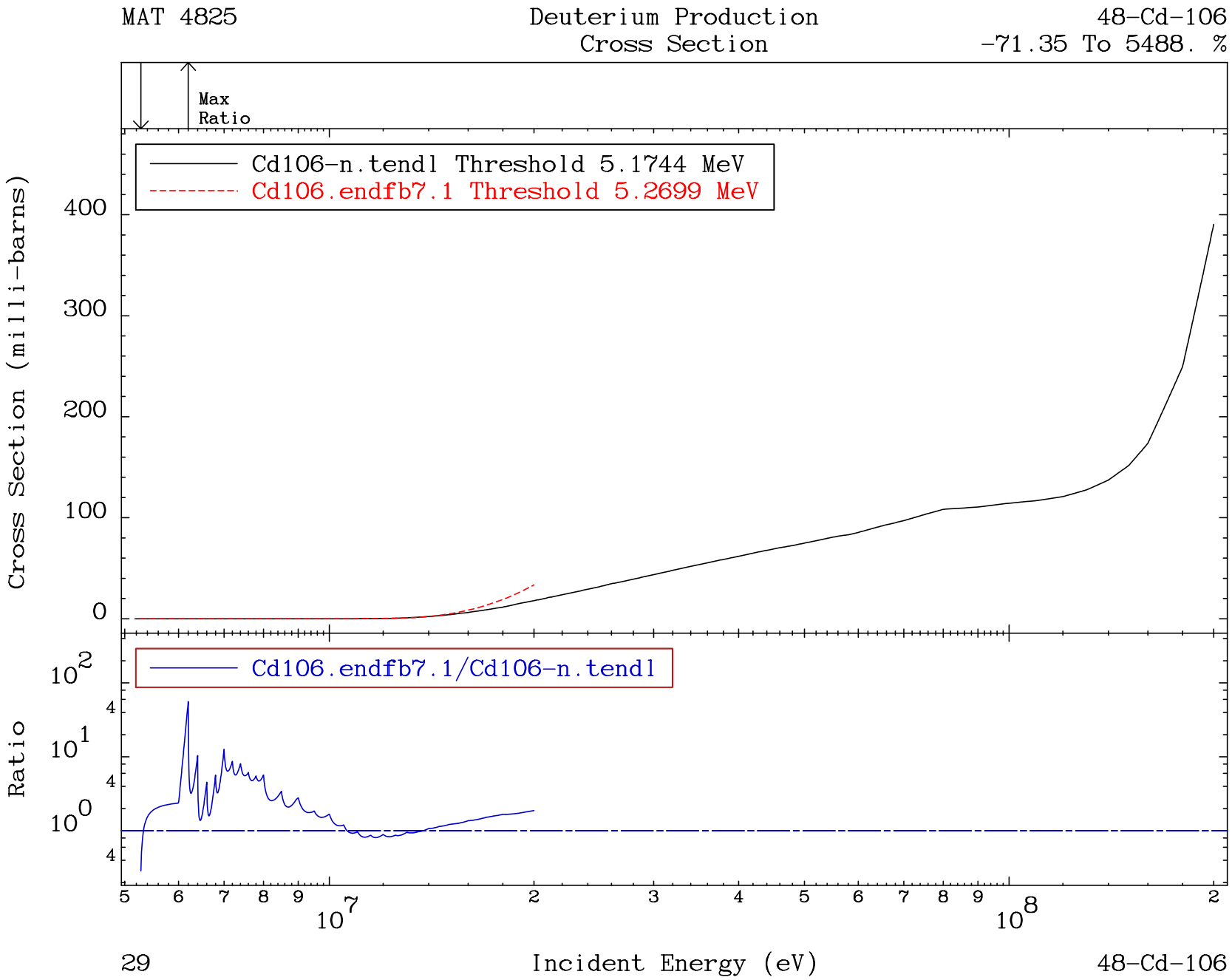

MAT 4825
(n,t)
Cross Section
48-Cd-106
10.21 To 9999. %
Max Ratio
Min Ratio
Cd106-n.tendl Threshold 8.9789 MeV
Cd106.endfb7.1 Threshold 10.000 MeV
Cross Section (milli-barns)
0
2
4
6
8
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^0
10^2
10^4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
24
Incident Energy (eV)
48-Cd-106

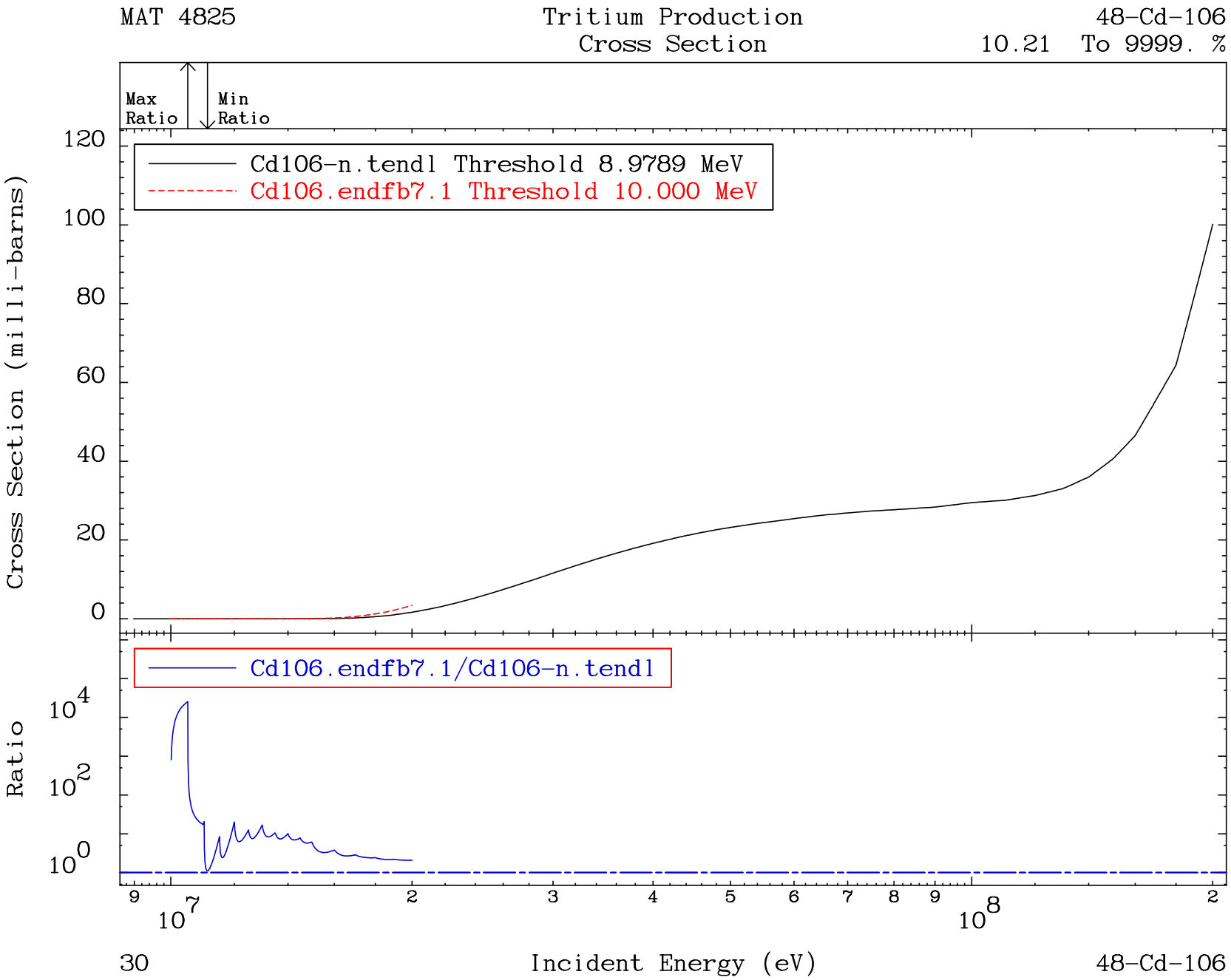

MAT 4825
(n,He-3)
Cross Section
48-Cd-106
-97.35 To 9999. %
Min Ratio
Max Ratio
Cd106-n.tendl Threshold 4.6407 MeV
Cd106.endfb7.1 Threshold 6.0000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^2
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
48-Cd-106

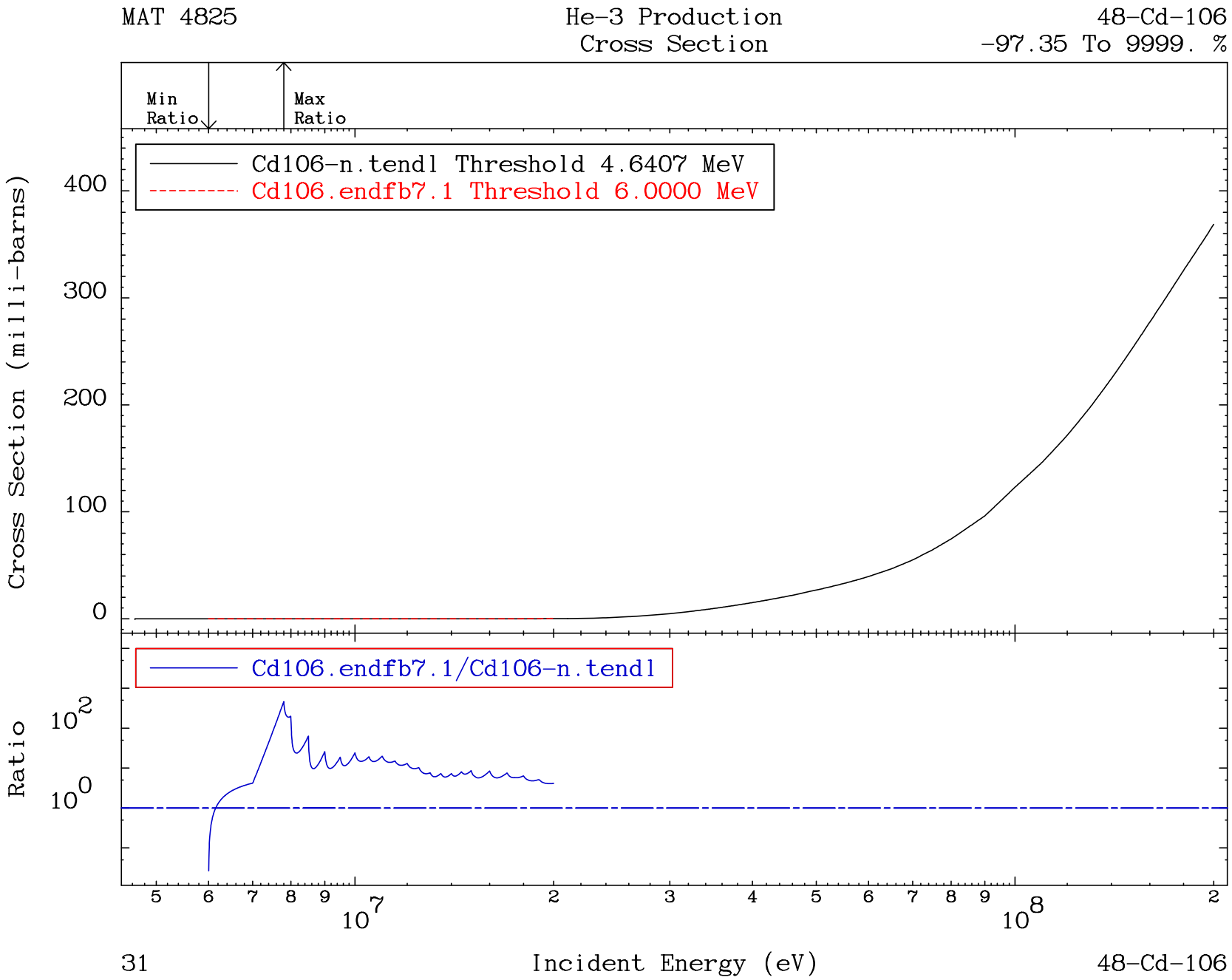

MAT 4825
(n,α)
Cross Section
48-Cd-106
-100.0 To 1109. %
Min Ratio
Max Ratio
Cd106-n.tendl
Cd106.endfb7.1 Threshold 100.00 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^2
10^0
10^-2
10^-4
10^-6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
26
Incident Energy (eV)
48-Cd-106

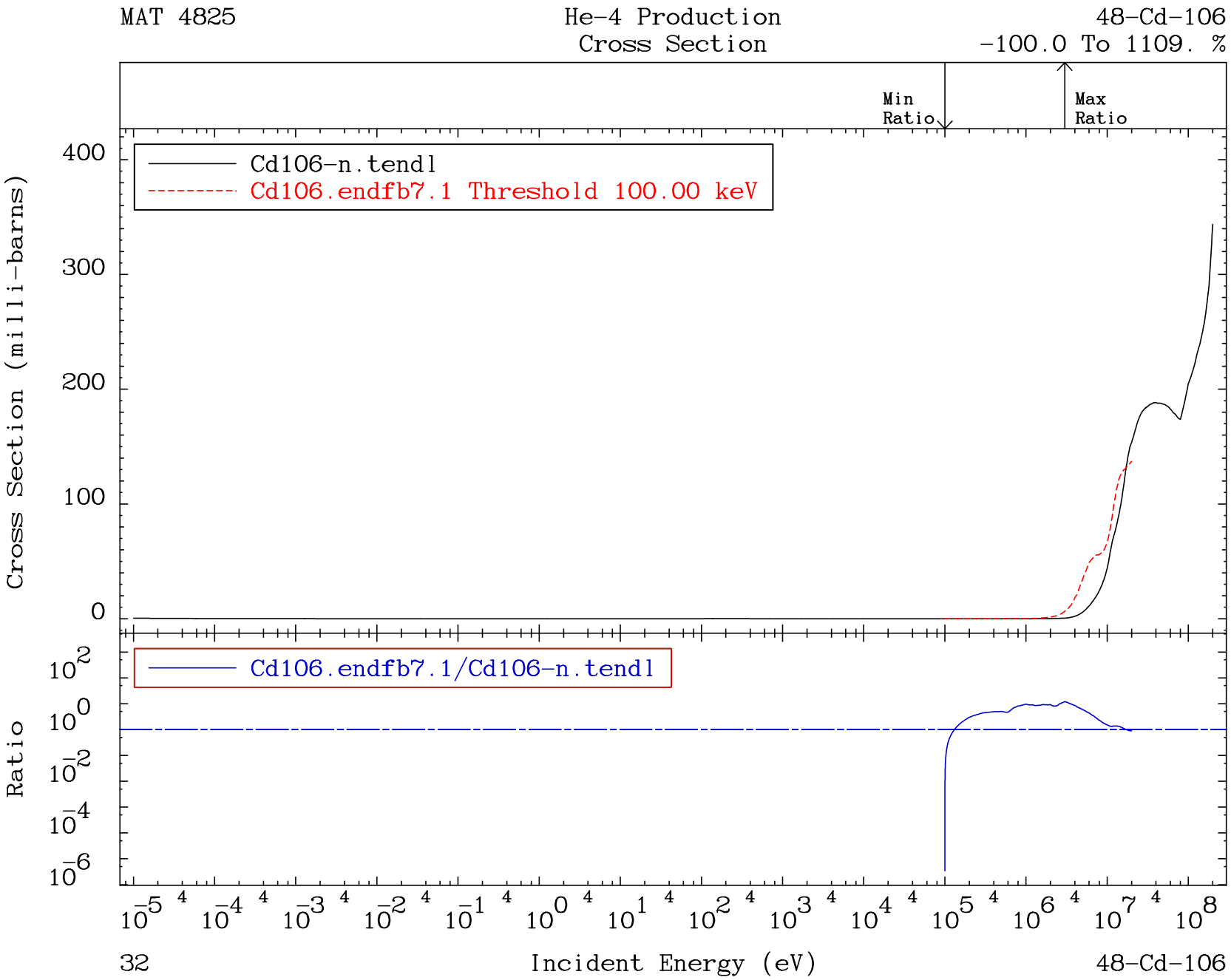

MAT 4825
(n,2p)
Cross Section
48-Cd-106
-99.92 To 104.9 %
Max Ratio
Min Ratio
Cd106-n.tendl Threshold 5.2706 MeV
Cd106.endfb7.1 Threshold 7.4197 MeV
Cross Section (milli-barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
Incident Energy (eV)
27
48-Cd-106

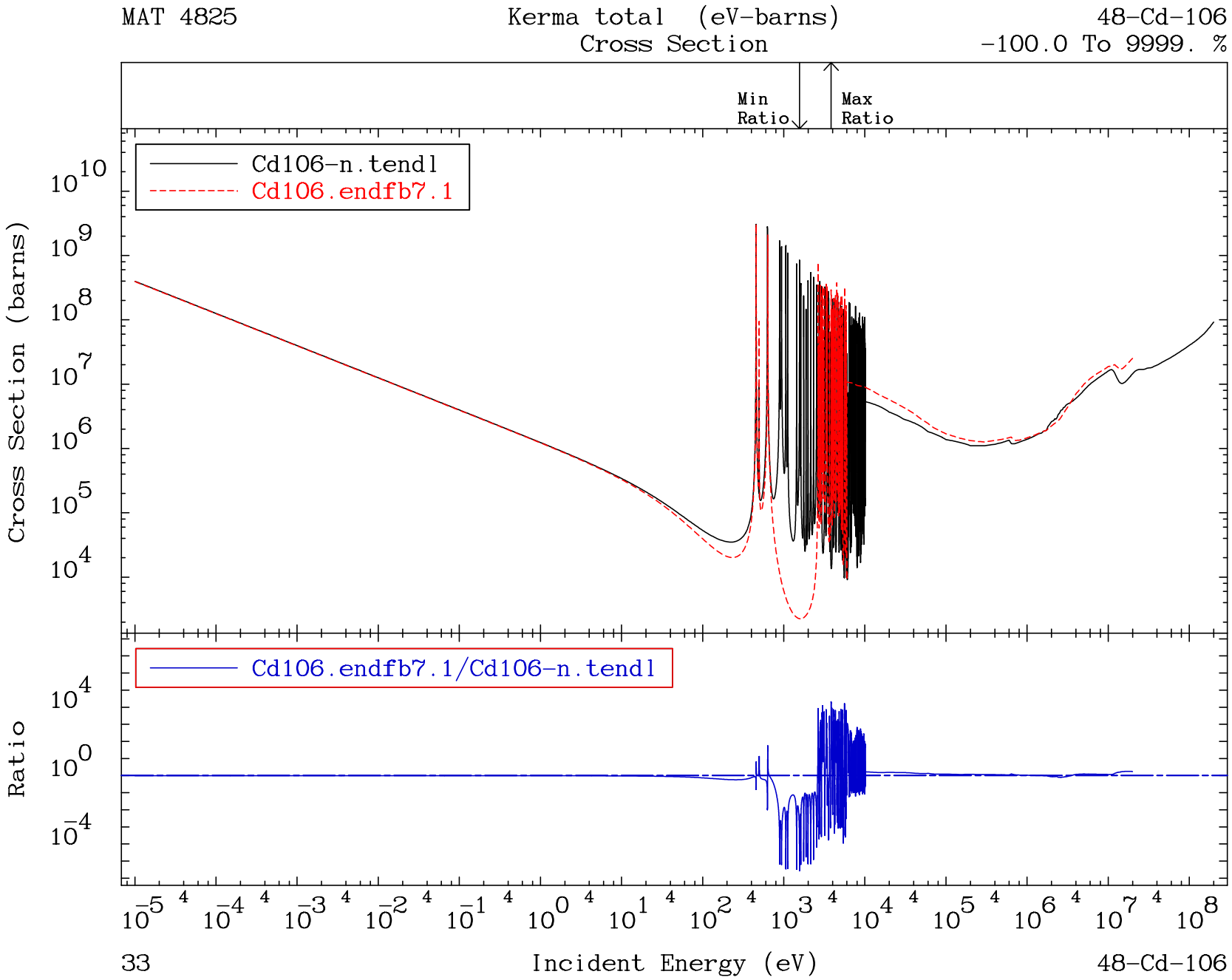

MAT 4825
Hydrogen Production
Cross Section
48-Cd-106
-100.0 To 2441. %
Min Ratio
Max Ratio
Cd106-n.tendl Threshold 10.175 keV
Cd106.endfb7.1 Threshold 485.30 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^0
10^-5
10^-10
10^4
10^5
10^6
10^7
10^8
28
Incident Energy (eV)
48-Cd-106

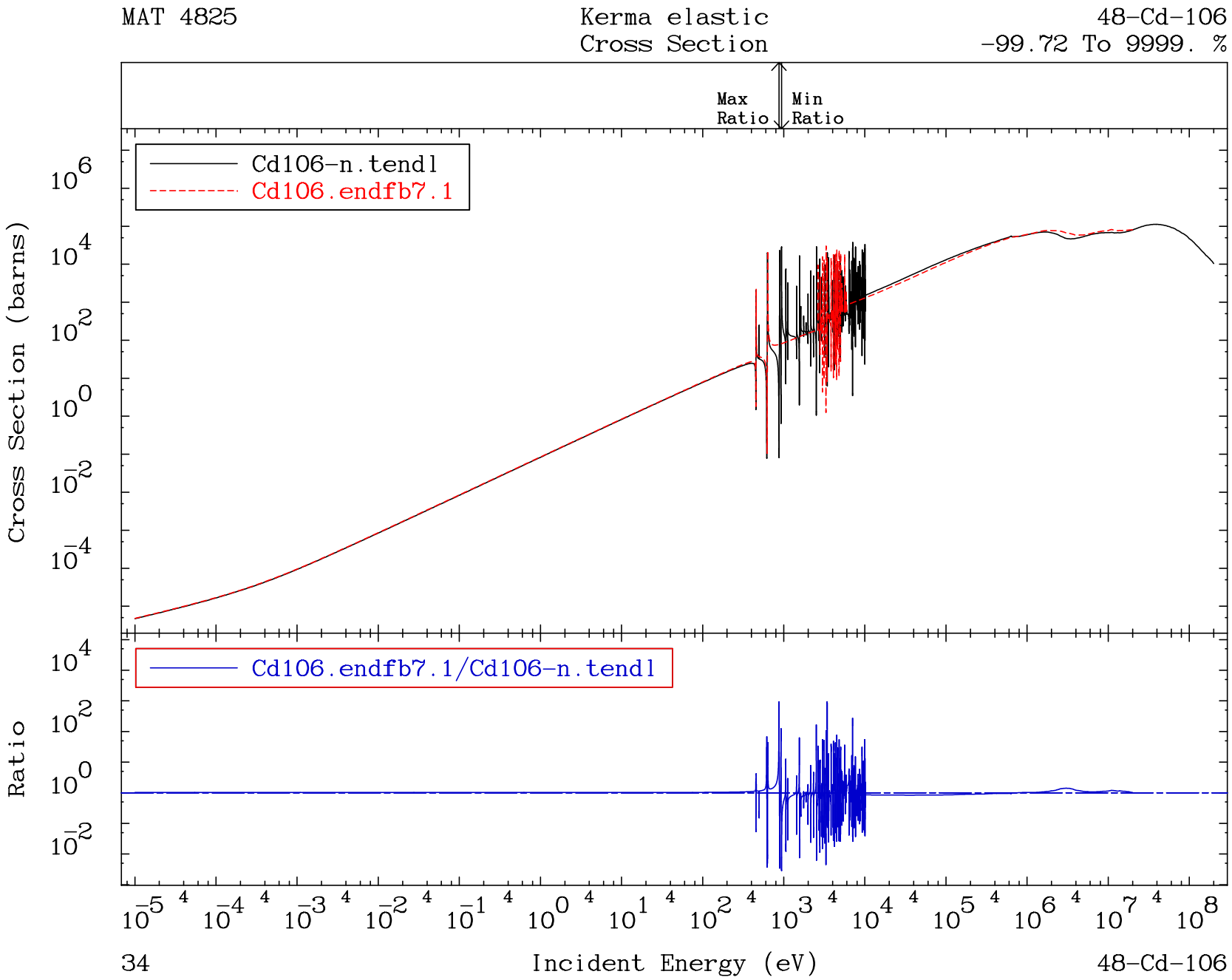

MAT 4825
Deuterium Production
Cross Section
48-Cd-106
-71.35 To 5488. %
Max
Ratio
Cd106-n.tendl Threshold 5.1744 MeV
Cd106.endfb7.1 Threshold 5.2699 MeV
Cross Section (milli-barns)
400
300
200
100
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
48-Cd-106

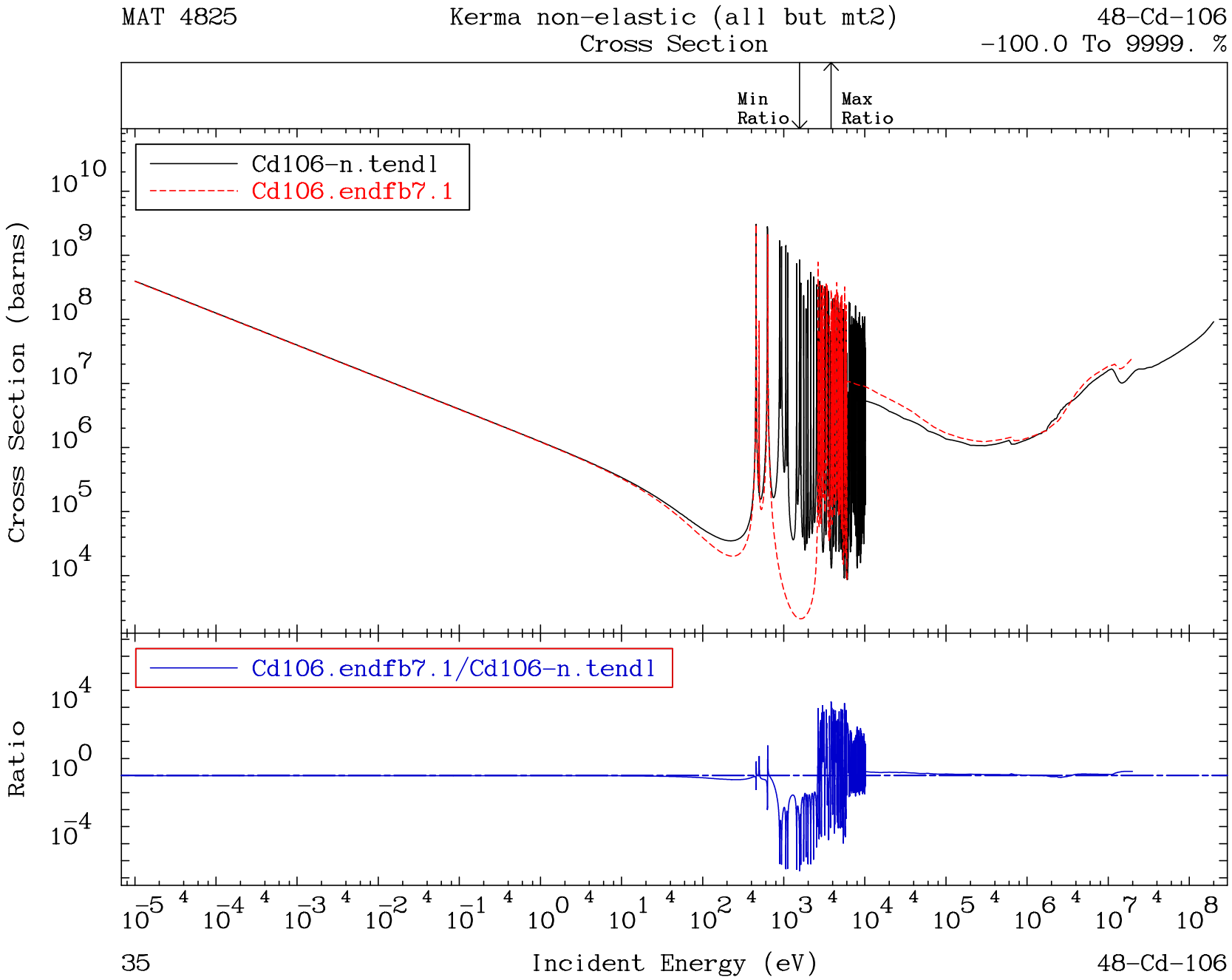

MAT 4825
Tritium Production
Cross Section
48-Cd-106
10.21 To 9999. %
Max Ratio
Min Ratio
Cd106-n.tendl Threshold 8.9789 MeV
Cd106.endfb7.1 Threshold 10.000 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^4
10^2
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
30
Incident Energy (eV)
48-Cd-106

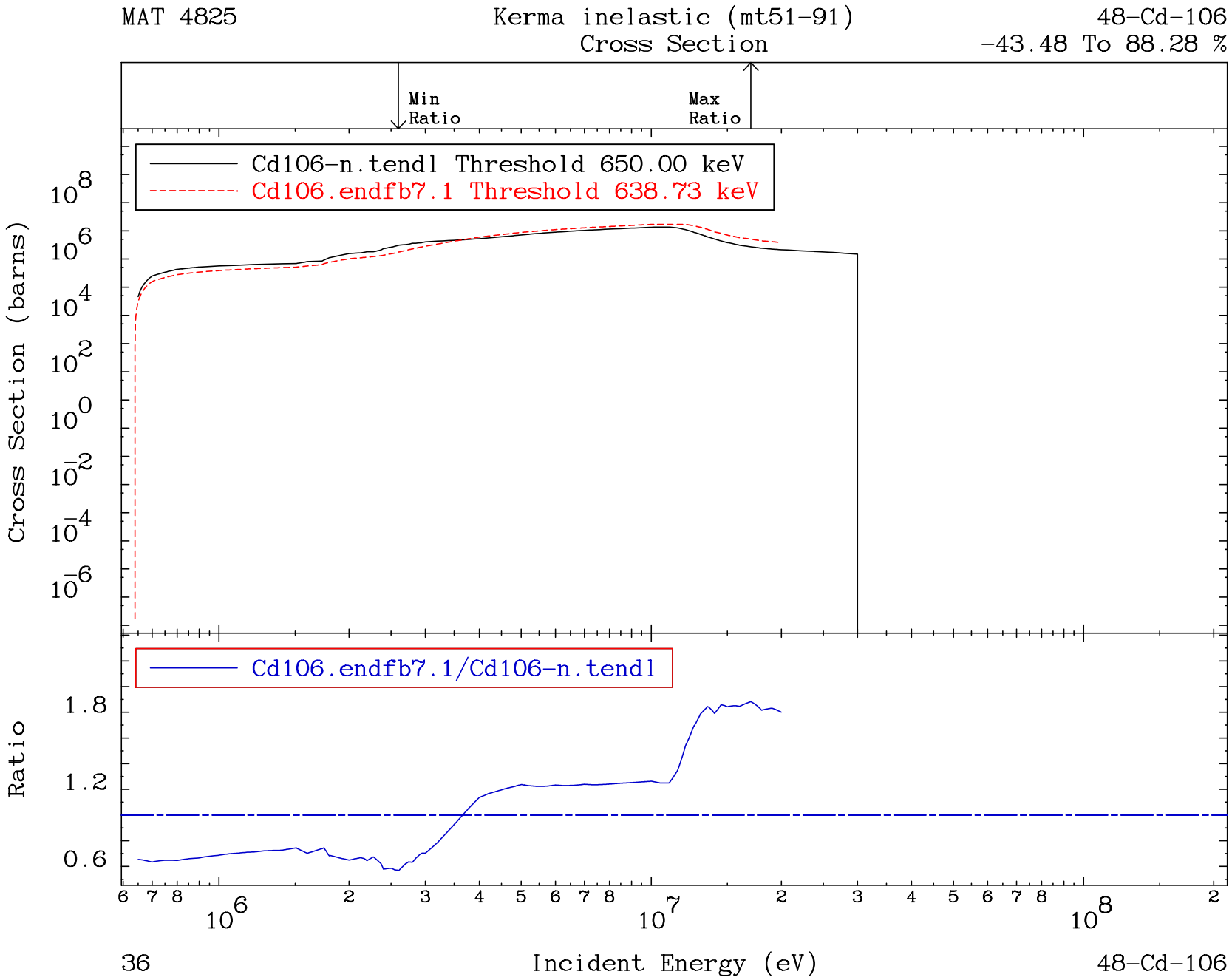

MAT 4825
He-3 Production
Cross Section
48-Cd-106
-97.35 To 9999. %
Min Ratio
Max Ratio
Cd106-n.tendl Threshold 4.6407 MeV
Cd106.endfb7.1 Threshold 6.0000 MeV
Cross Section (milli-barns)
400
300
200
100
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^2
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
48-Cd-106

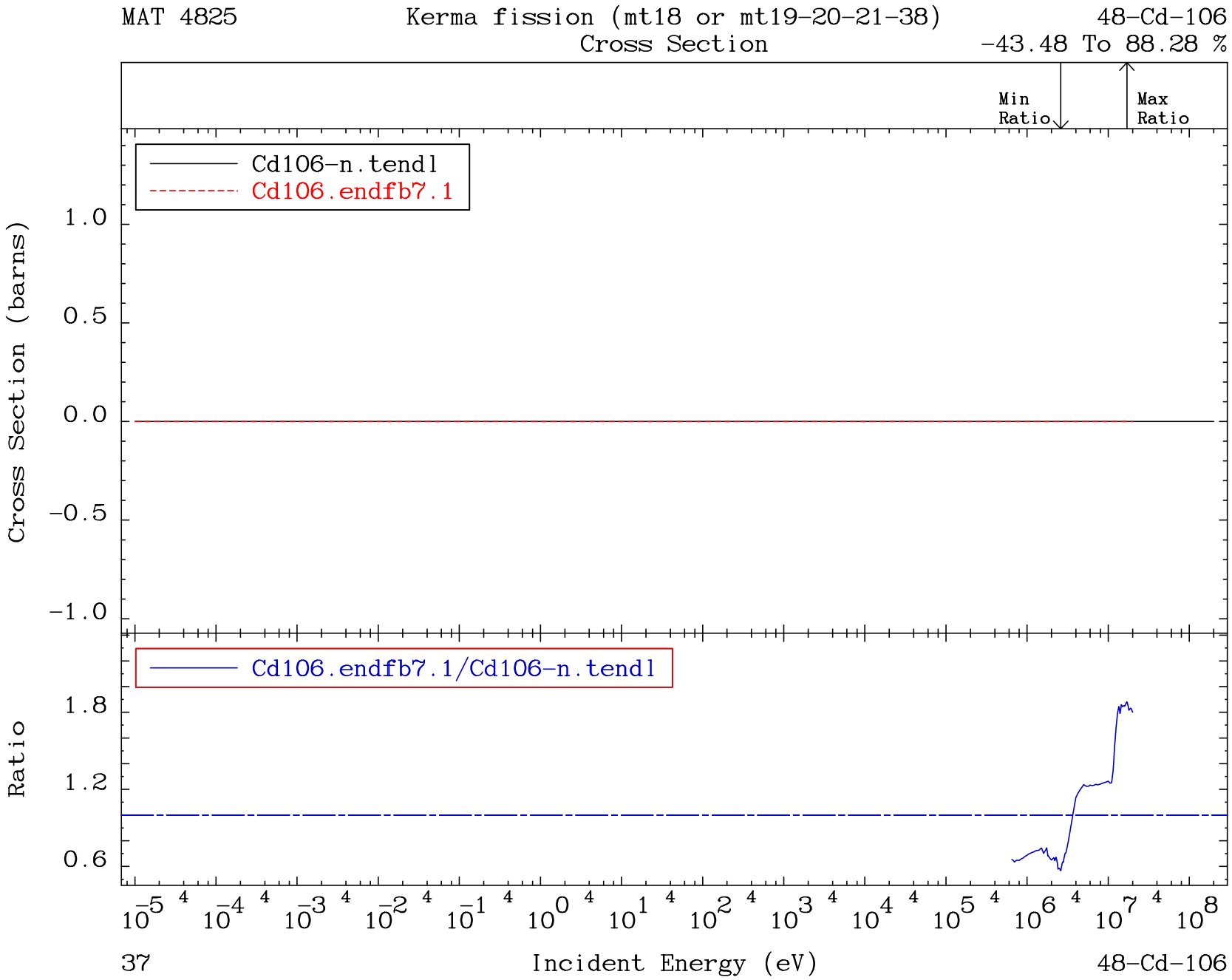

MAT 4825
He-4 Production
Cross Section
48-Cd-106
-100.0 To 1109. %
Min Ratio
Max Ratio
Cd106-n.tendl
Cd106.endfb7.1 Threshold 100.00 keV
Cross Section (milli-barns)
400
300
200
100
0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^2
10^0
10^-2
10^-4
10^-6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
32
Incident Energy (eV)
48-Cd-106

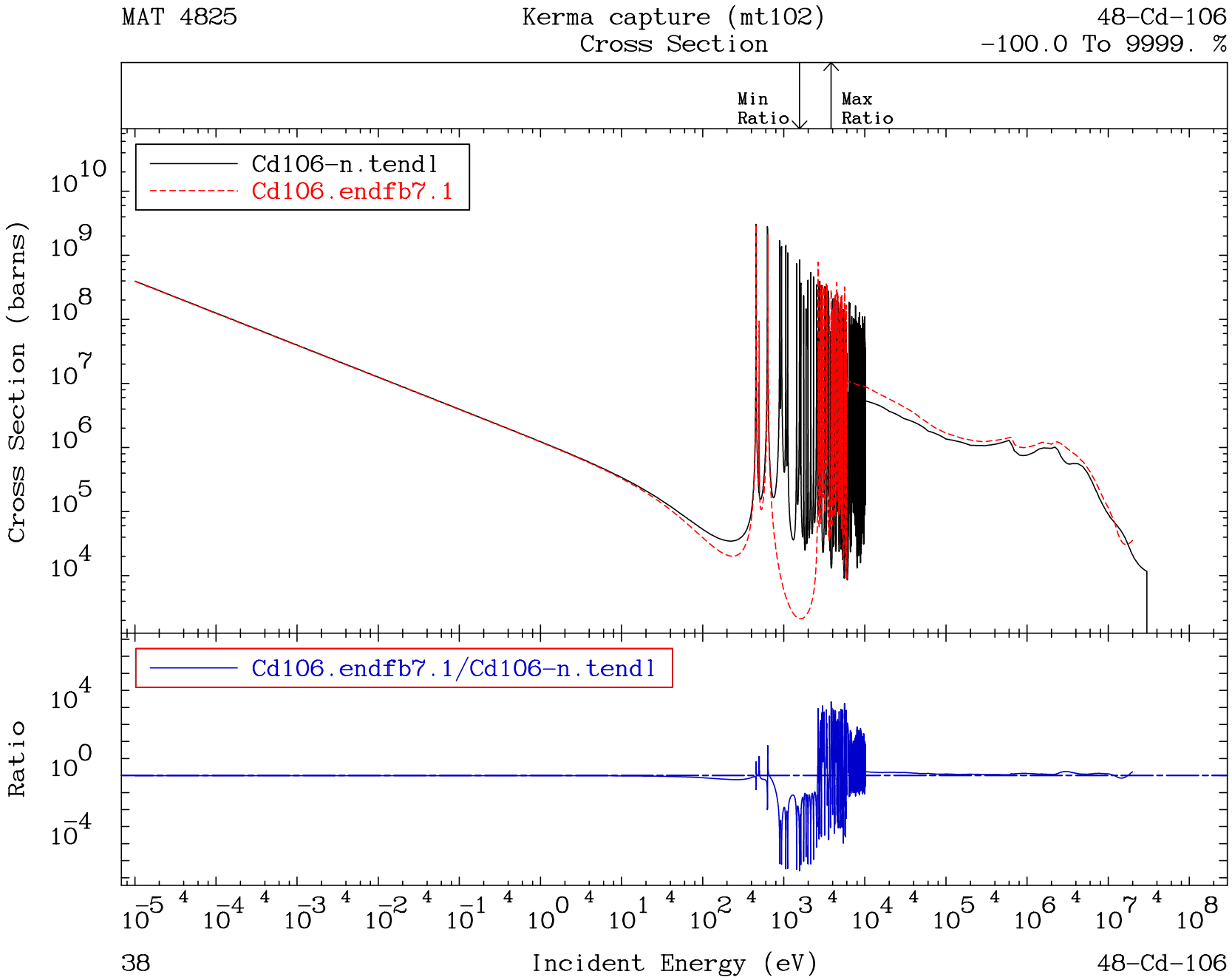

MAT 4825
Kerma total (eV-barns)
Cross Section
48-Cd-106
-100.0 To 9999. %
Min Ratio
Max Ratio
Cd106-n.tendl
Cd106.endfb7.1
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
Incident Energy (eV)
33
48-Cd-106

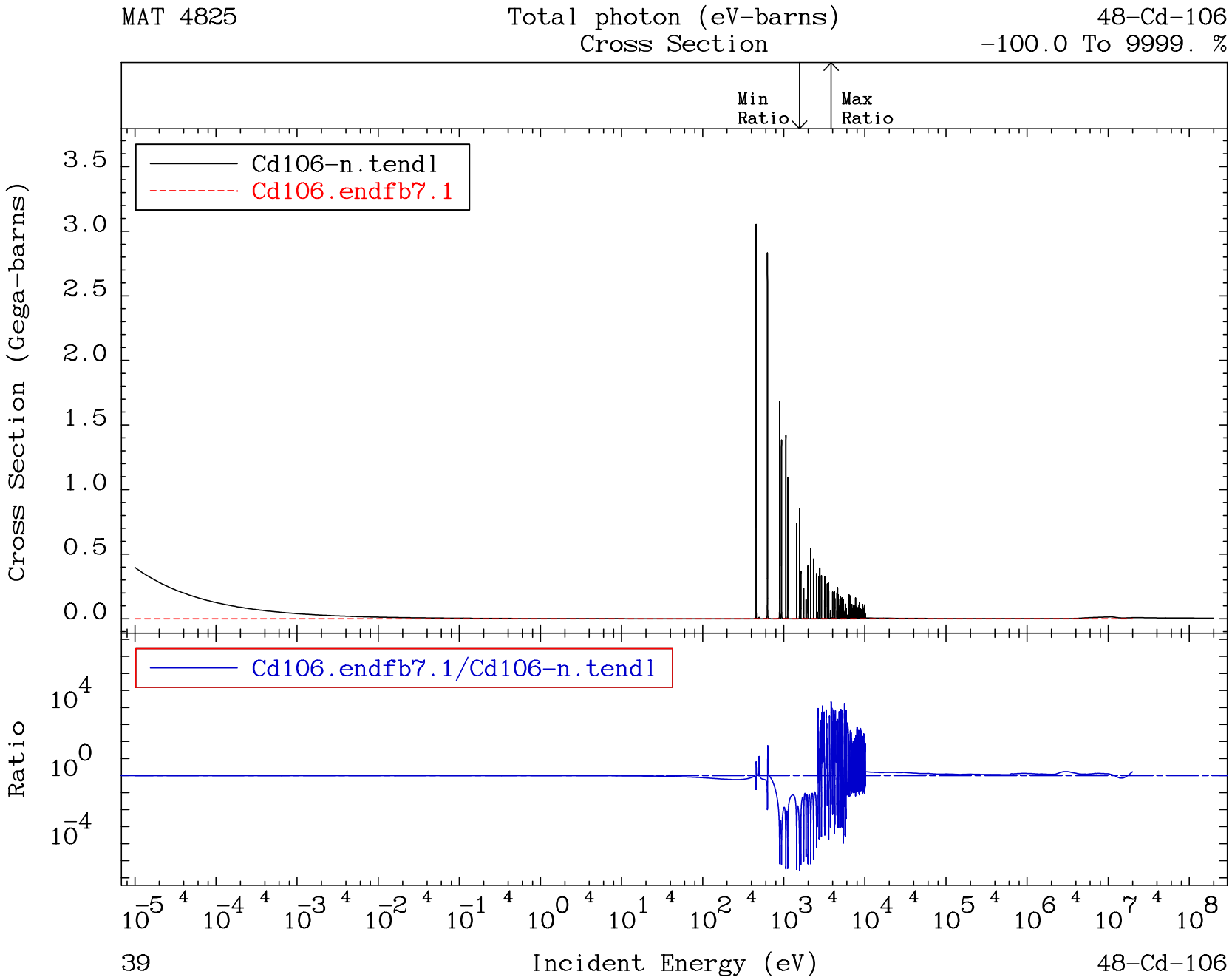

MAT 4825
Kerma elastic
Cross Section
48-Cd-106
-99.72 To 9999. %
Max Ratio
Min Ratio
Cd106-n.tendl
Cd106.endfb7.1
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
34
Incident Energy (eV)
48-Cd-106

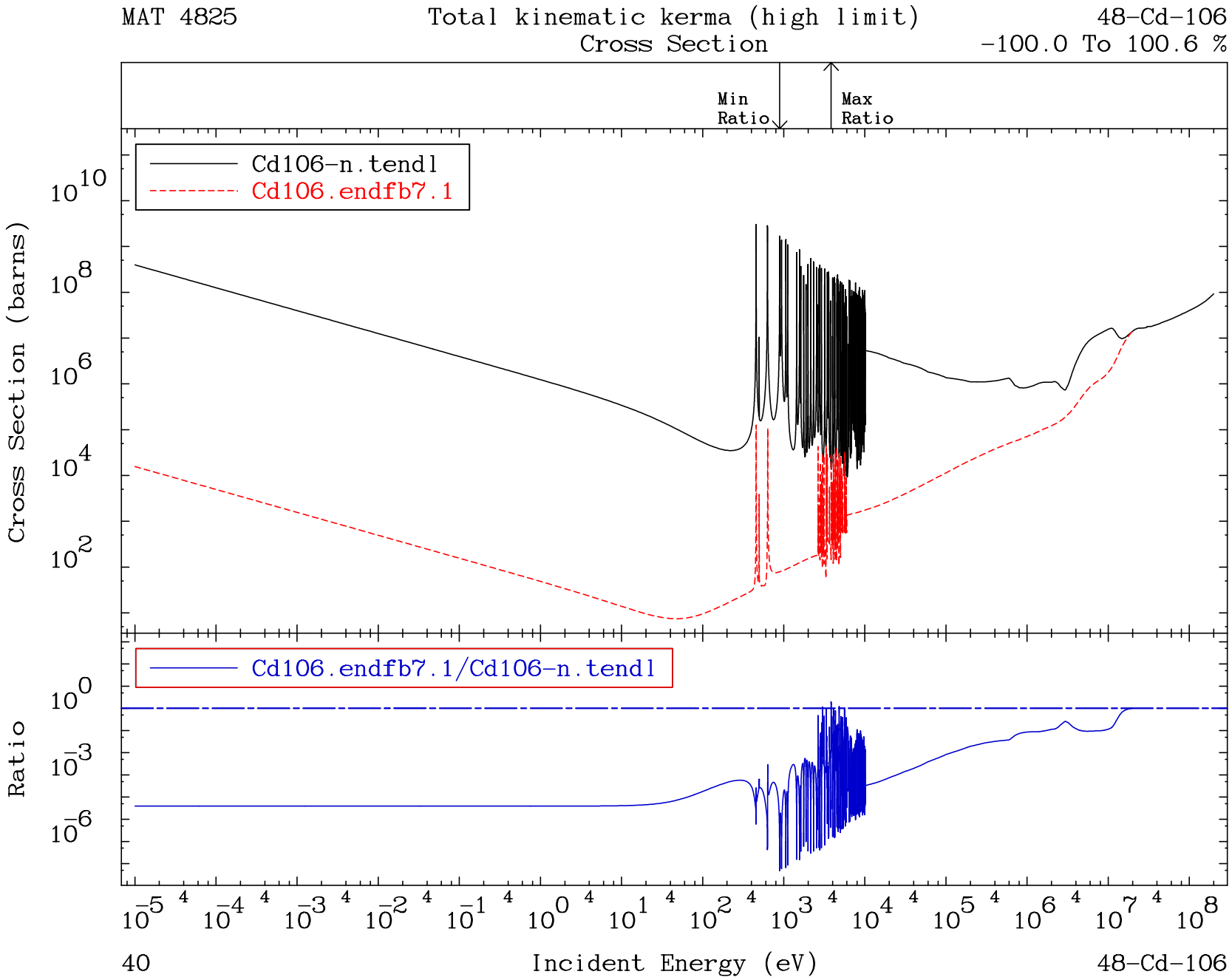

MAT 4825
Kerma non-elastic (all but mt2)
Cross Section
48-Cd-106
-100.0 To 9999. %
Min Ratio
Max Ratio
Cd106-n.tendl
Cd106.endfb7.1
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
Incident Energy (eV)
35
48-Cd-106

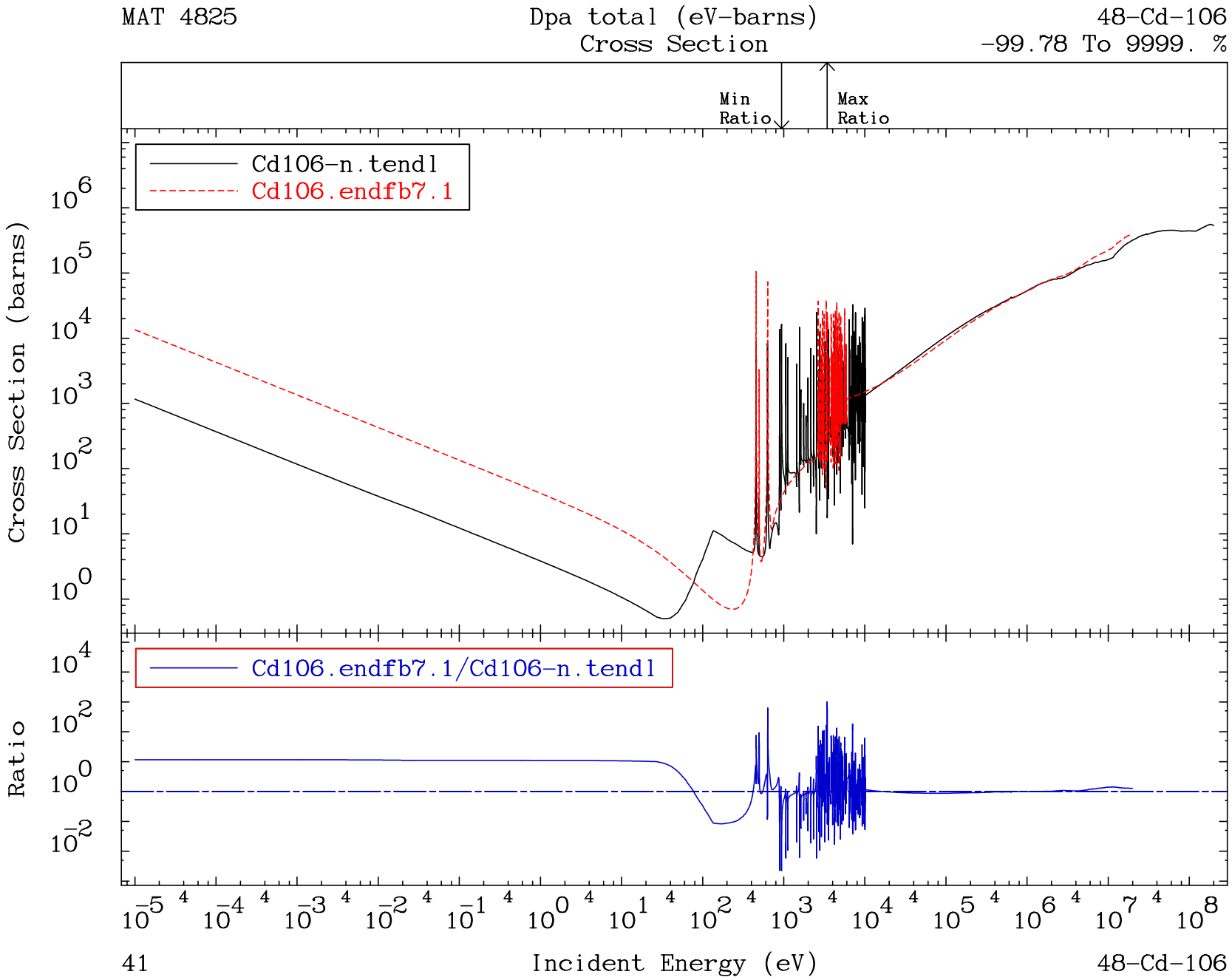

MAT 4825
Kerma inelastic (mt51-91)
Cross Section
48-Cd-106
-43.48 To 88.28 %
Min Ratio
Max Ratio
Cd106-n.tendl Threshold 650.00 keV
Cd106.endfb7.1 Threshold 638.73 keV
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
Incident Energy (eV)
36
48-Cd-106

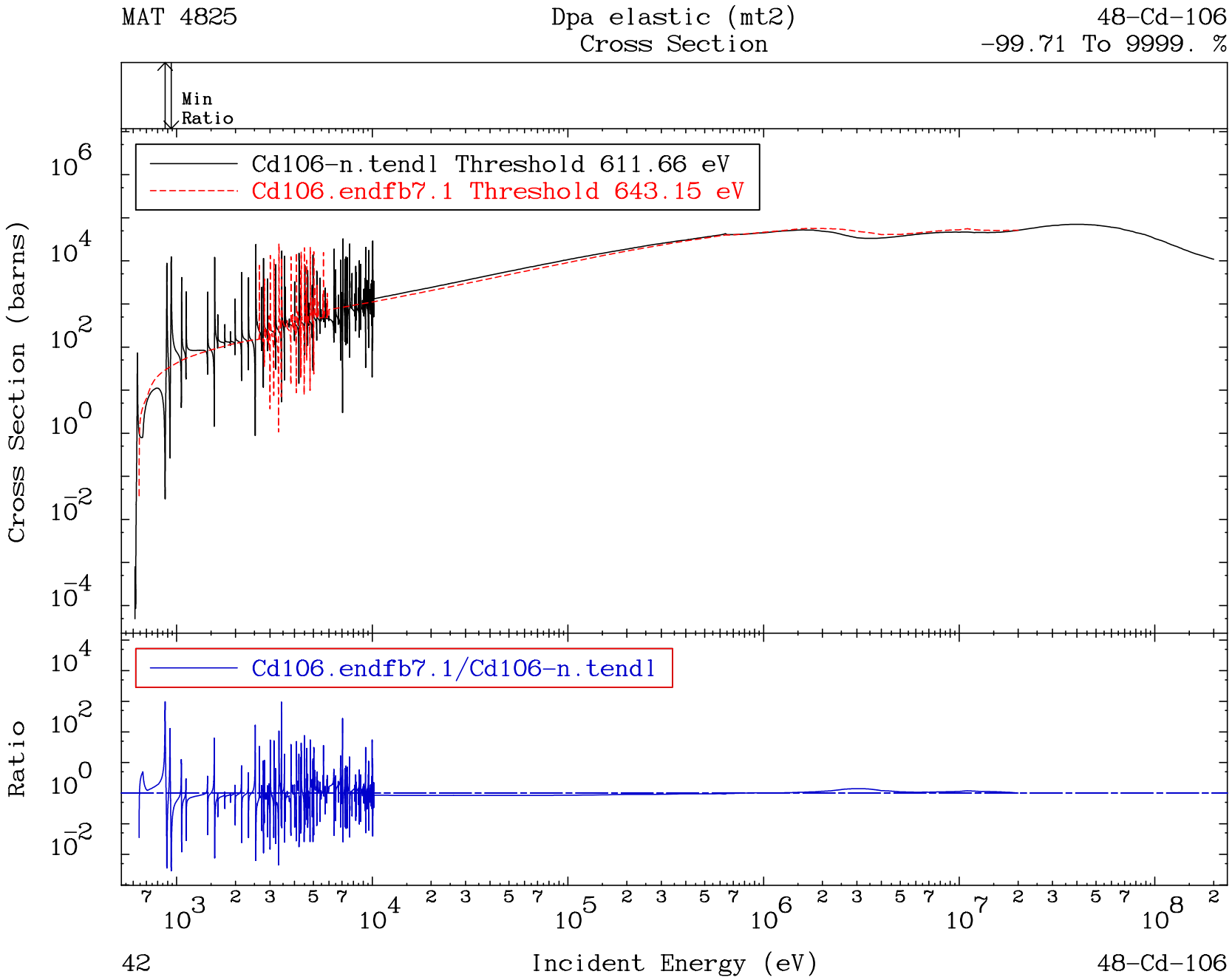

MAT 4825
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
48-Cd-106
-43.48 To 88.28 %
Min Ratio
Max Ratio
Cd106-n.tendl
Cd106.endfb7.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
1.8
1.2
0.6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
37
Incident Energy (eV)
48-Cd-106

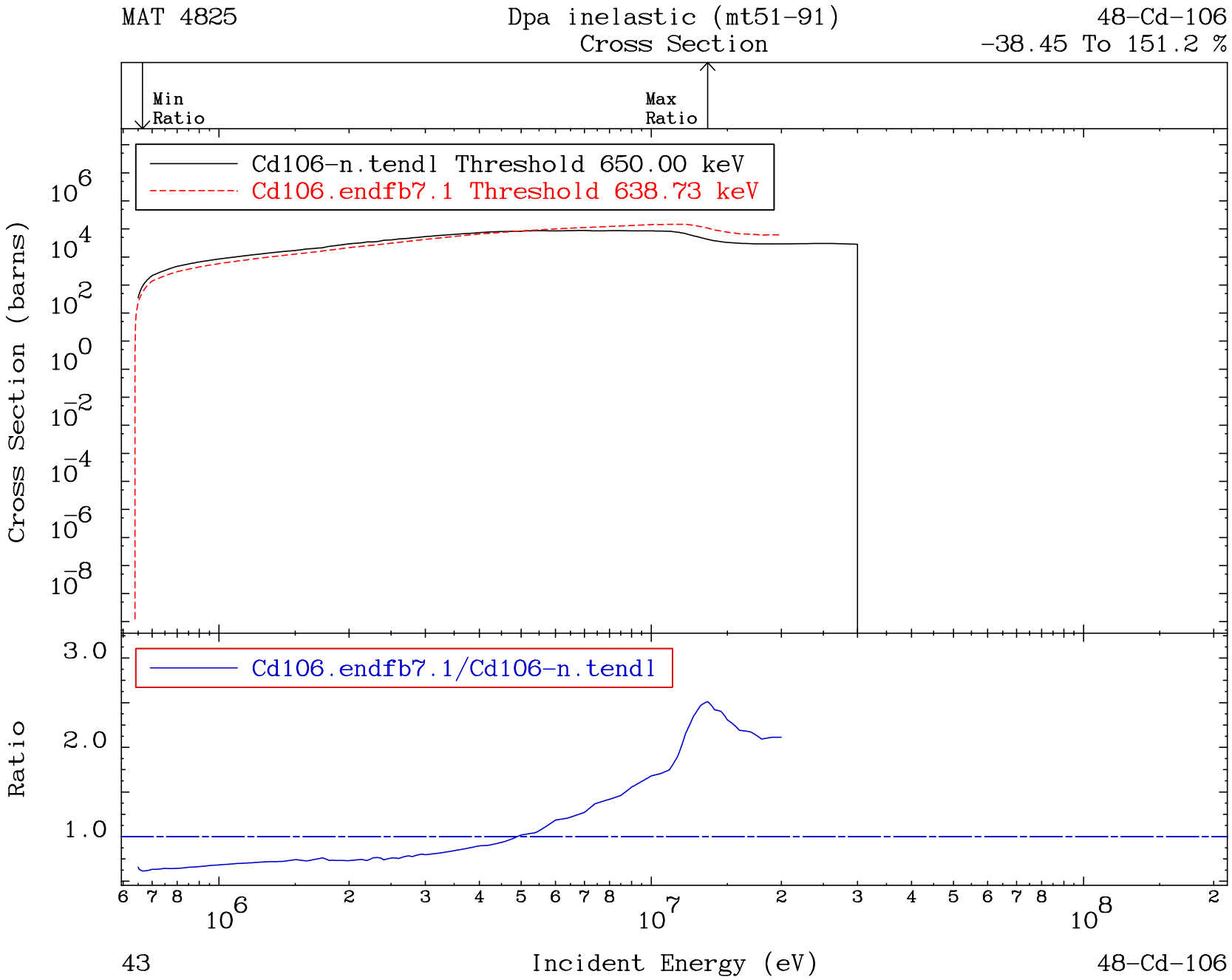

MAT 4825
Kerma capture (mt102)
Cross Section
48-Cd-106
-100.0 To 9999. %
Min Ratio
Max Ratio
Cd106-n.tendl
Cd106.endfb7.1
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
Incident Energy (eV)
38
48-Cd-106

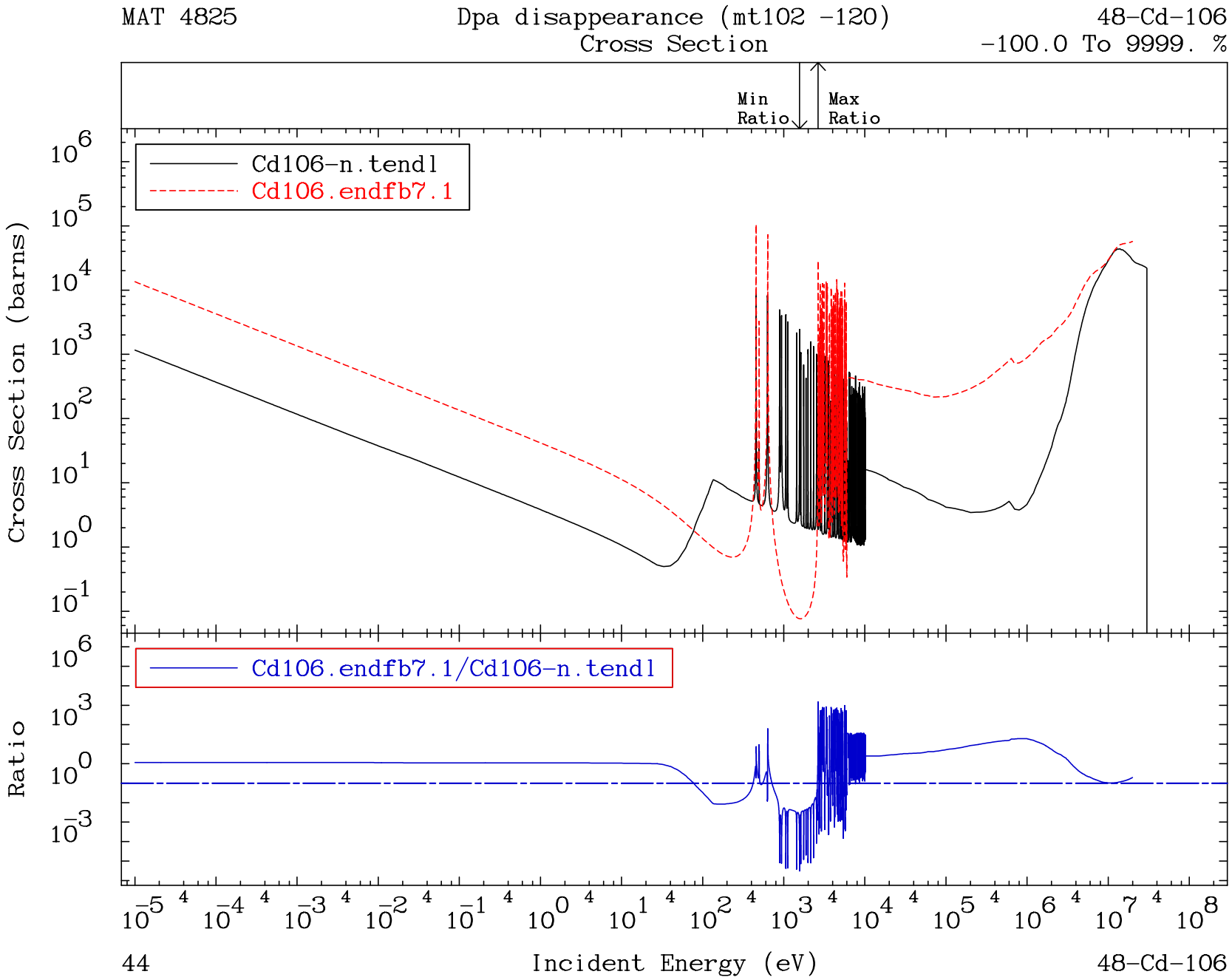

MAT 4825
Total photon (eV-barns)
Cross Section
48-Cd-106
-100.0 To 9999. %
Min Ratio
Max Ratio
Cd106-n.tendl
Cd106.endfb7.1
Cross Section (Giga-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Cd106.endfb7.1/Cd106-n.tendl
Ratio
10^4
10^0
10^-4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
39
Incident Energy (eV)
48-Cd-106


MAT 4825
Total kinematic kerma (high limit)
Cross Section
48-Cd-106
-100.0 To 100.6 %
Min Ratio
Max Ratio
Cd106-n.tendl
Cd106.endfb7.1
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
Incident Energy (eV)
40
48-Cd-106


MAT 4825
Dpa total (eV-barns)
Cross Section
48-Cd-106
-99.78 To 9999. %
Min Ratio
Max Ratio
Cd106-n.tendl
Cd106.endfb7.1
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
41
Incident Energy (eV)
48-Cd-106


MAT 4825
Dpa elastic (mt2)
Cross Section
48-Cd-106
-99.71 To 9999. %
Min
Ratio
Cd106-n.tendl Threshold 611.66 eV
Cd106.endfb7.1 Threshold 643.15 eV
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
Incident Energy (eV)
42
48-Cd-106


MAT 4825
Dpa inelastic (mt51-91)
Cross Section
48-Cd-106
-38.45 To 151.2 %
Min Ratio
Max Ratio
Cd106-n.tendl Threshold 650.00 keV
Cd106.endfb7.1 Threshold 638.73 keV
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
Incident Energy (eV)
43
48-Cd-106


MAT 4825
Dpa disappearance (mt102 -120)
Cross Section
48-Cd-106
-100.0 To 9999. %
Min Ratio
Max Ratio
Cd106-n.tendl
Cd106.endfb7.1
Cross Section (barns)
Cd106.endfb7.1/Cd106-n.tendl
Ratio
44
Incident Energy (eV)
48-Cd-106