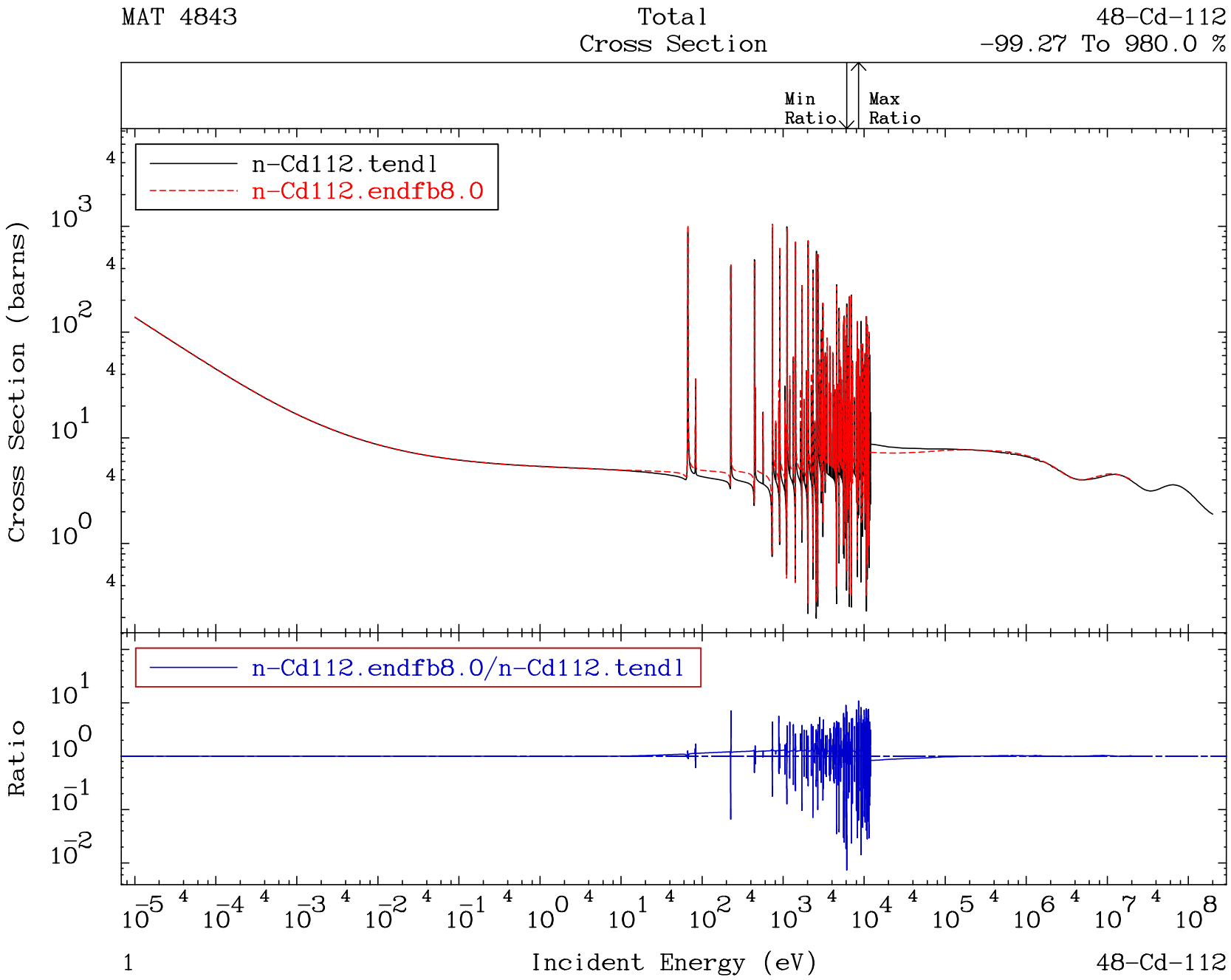
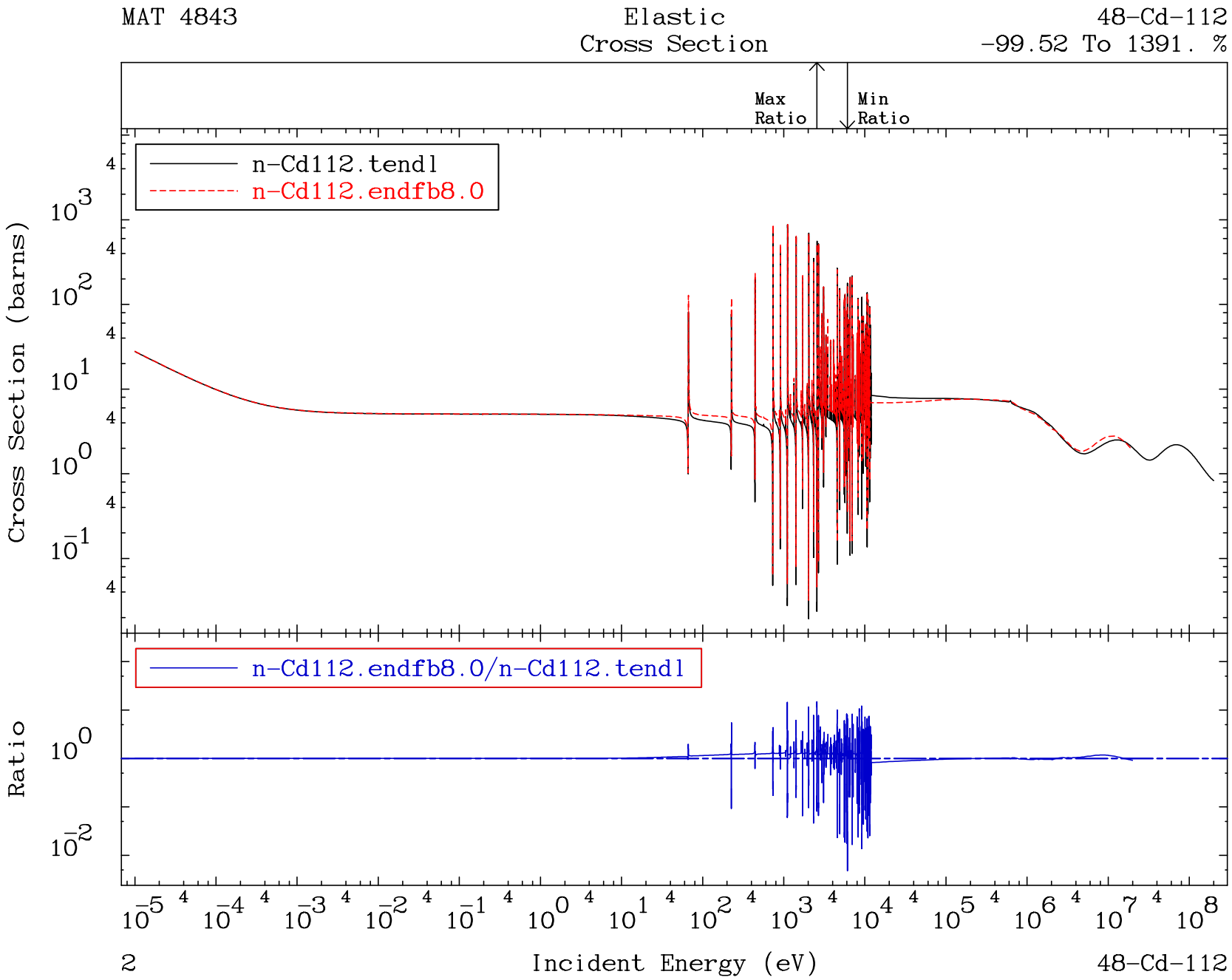
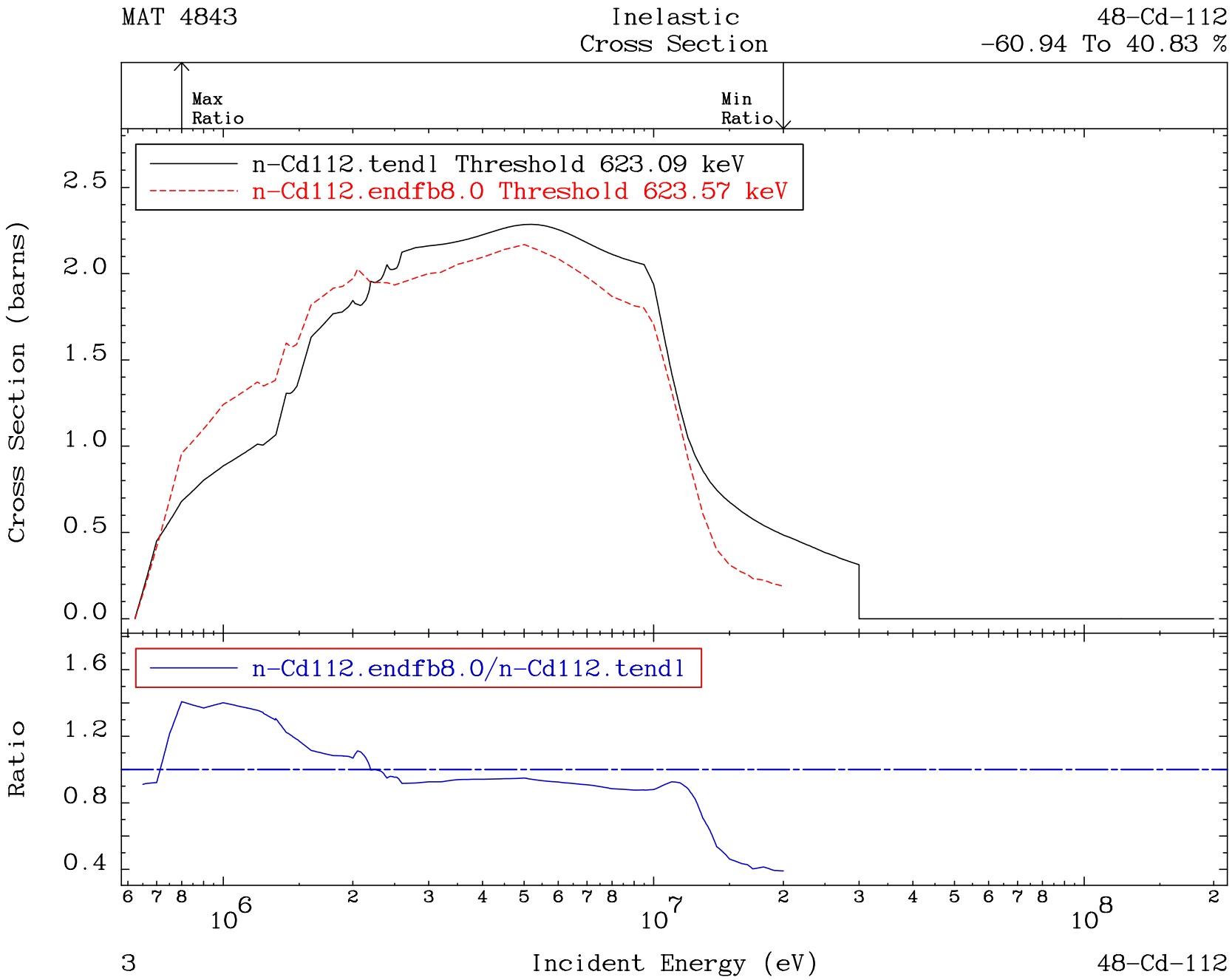
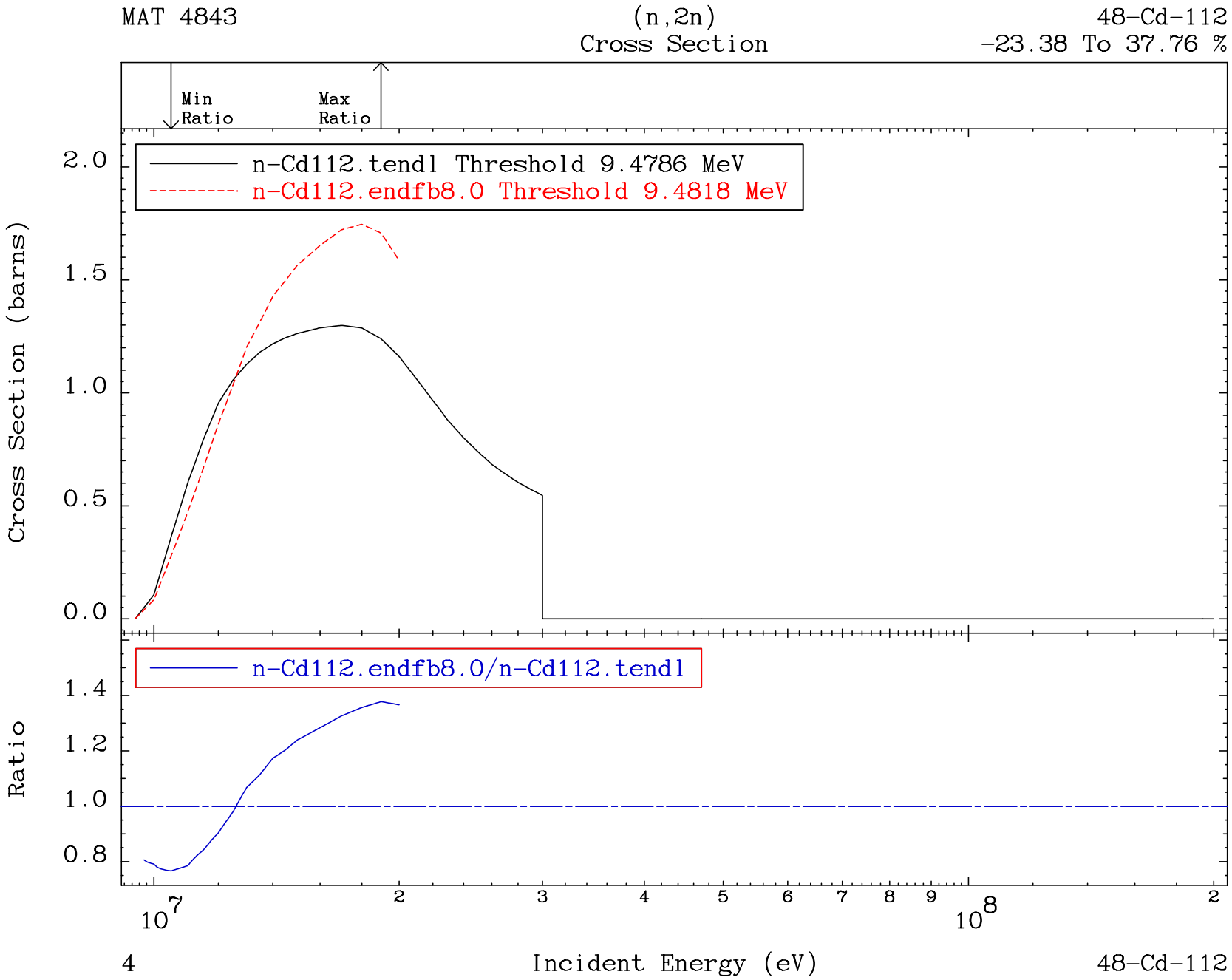
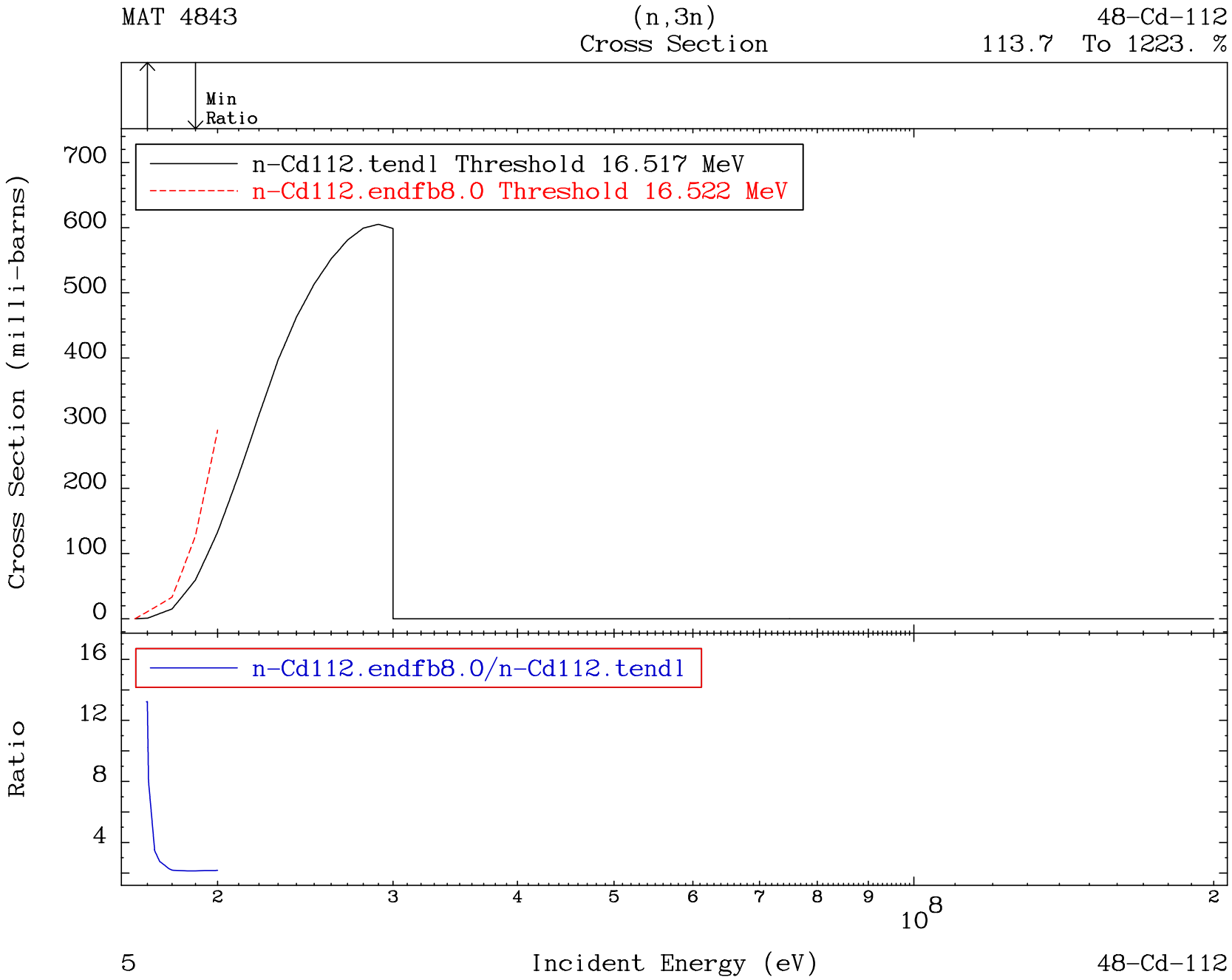
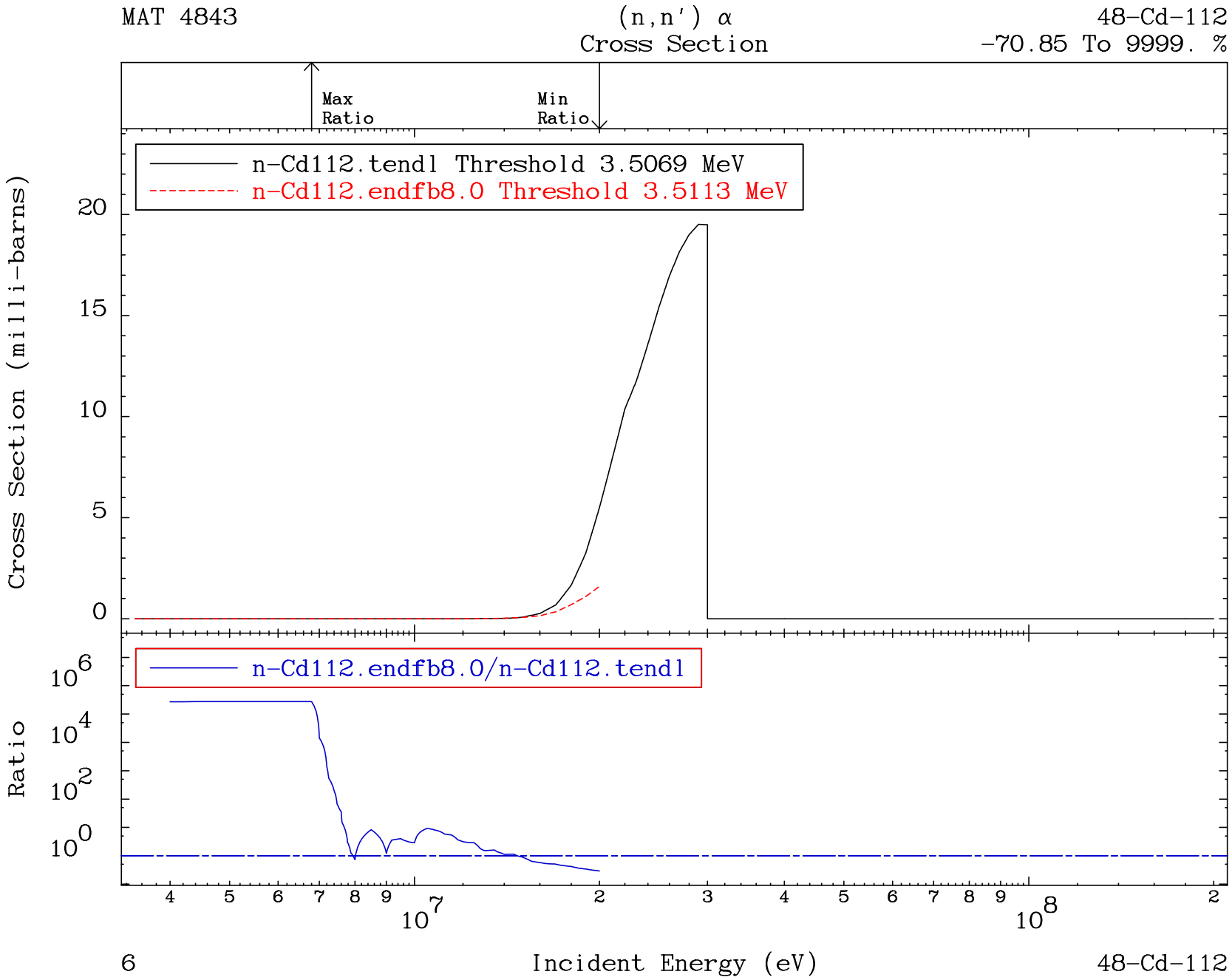

MAT 4843
Total
Cross Section
48-Cd-112
-99.27 To 980.0 %
Min Ratio
Max Ratio
n-Cd112.tendl
n-Cd112.endfb8.0
Cross Section (barns)
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
Incident Energy (eV)
1
48-Cd-112

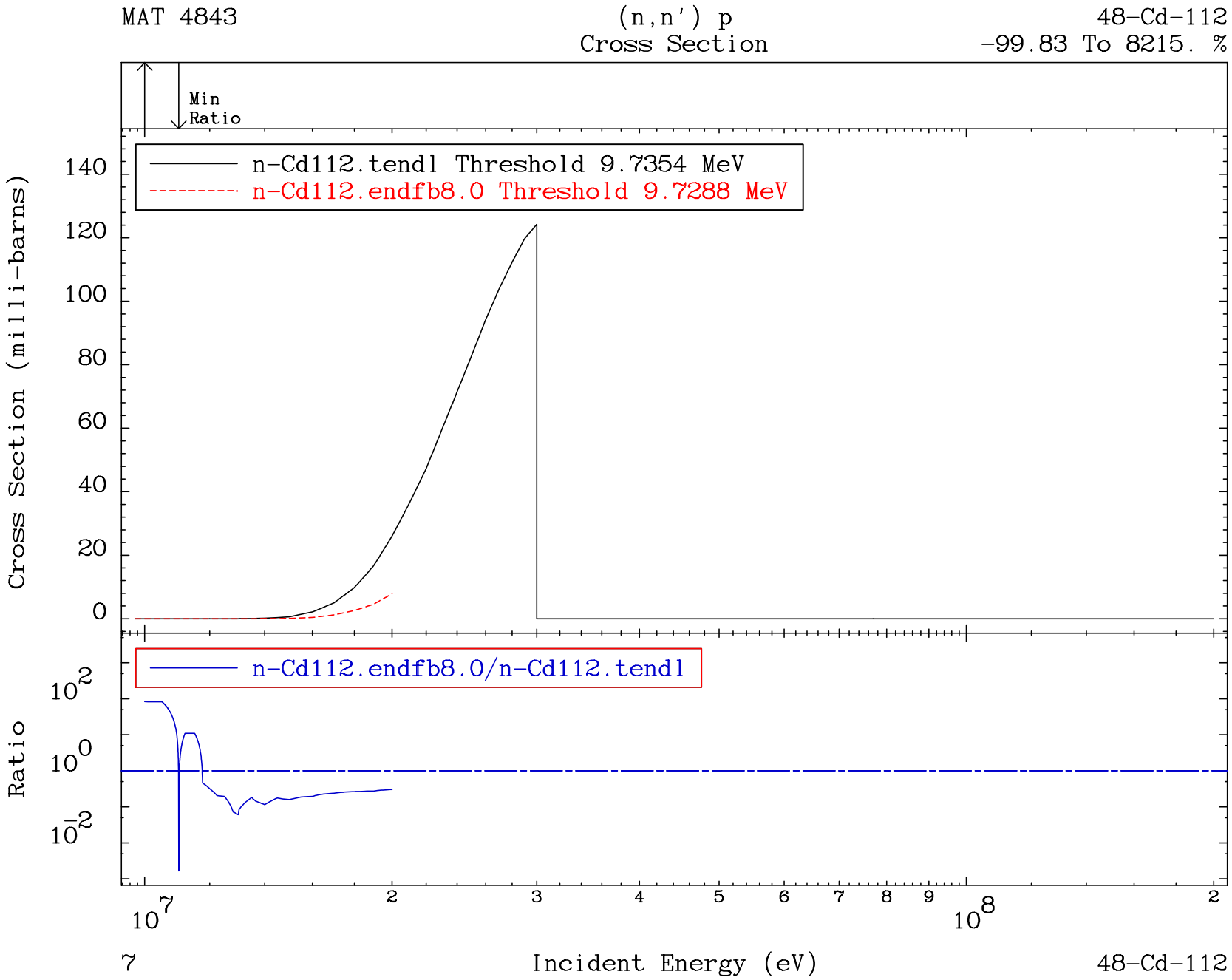

MAT 4843
Elastic
Cross Section
48-Cd-112
-99.52 To 1391. %
Max
Ratio
Min
Ratio
n-Cd112.tendl
n-Cd112.endfb8.0
Cross Section (barns)
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
Incident Energy (eV)
2
48-Cd-112

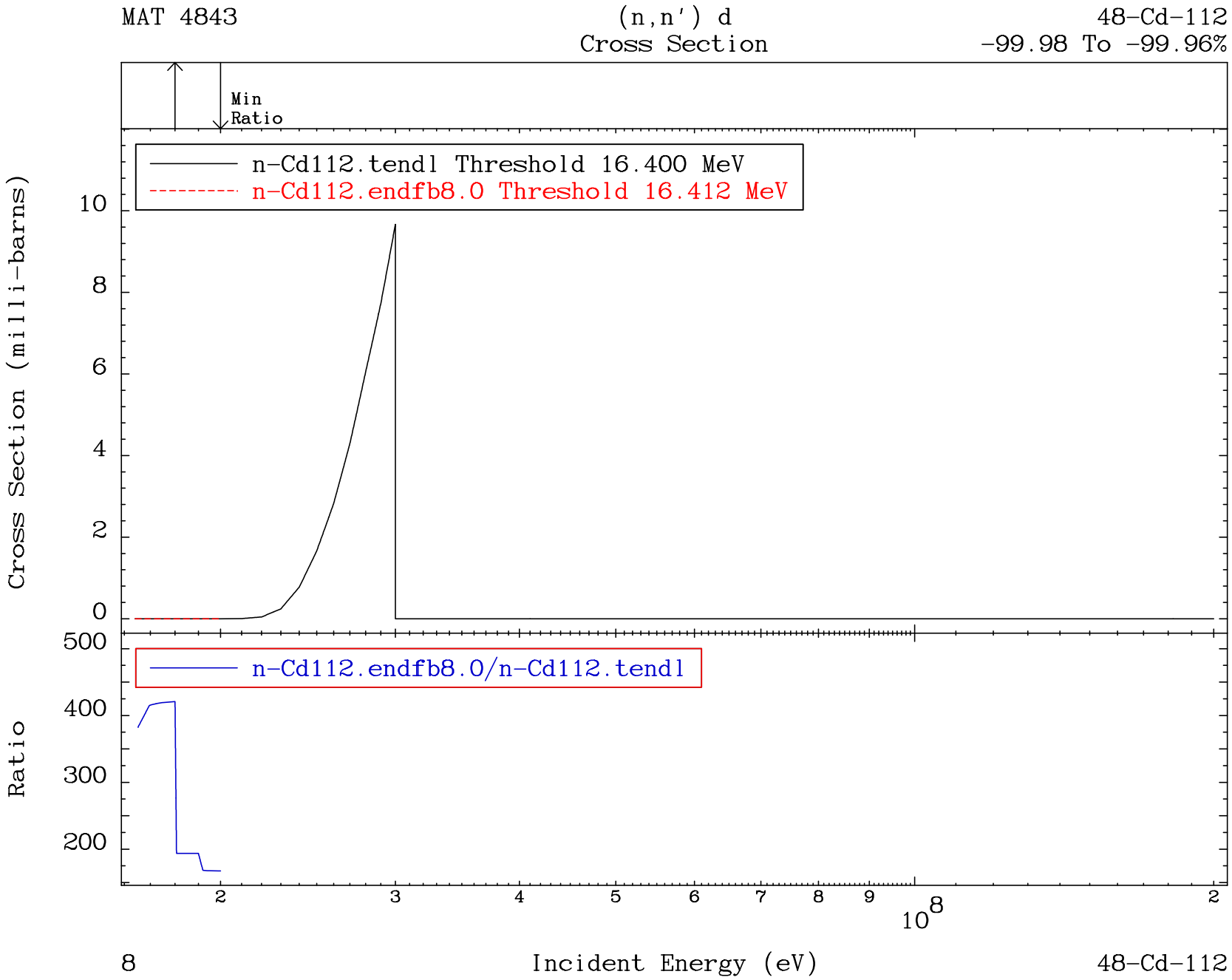

MAT 4843
Inelastic
Cross Section
48-Cd-112
-60.94 To 40.83 %
Max
Ratio
Min
Ratio
n-Cd112.tendl Threshold 623.09 keV
n-Cd112.endfb8.0 Threshold 623.57 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
1.6
1.2
0.8
0.4
6 7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
48-Cd-112

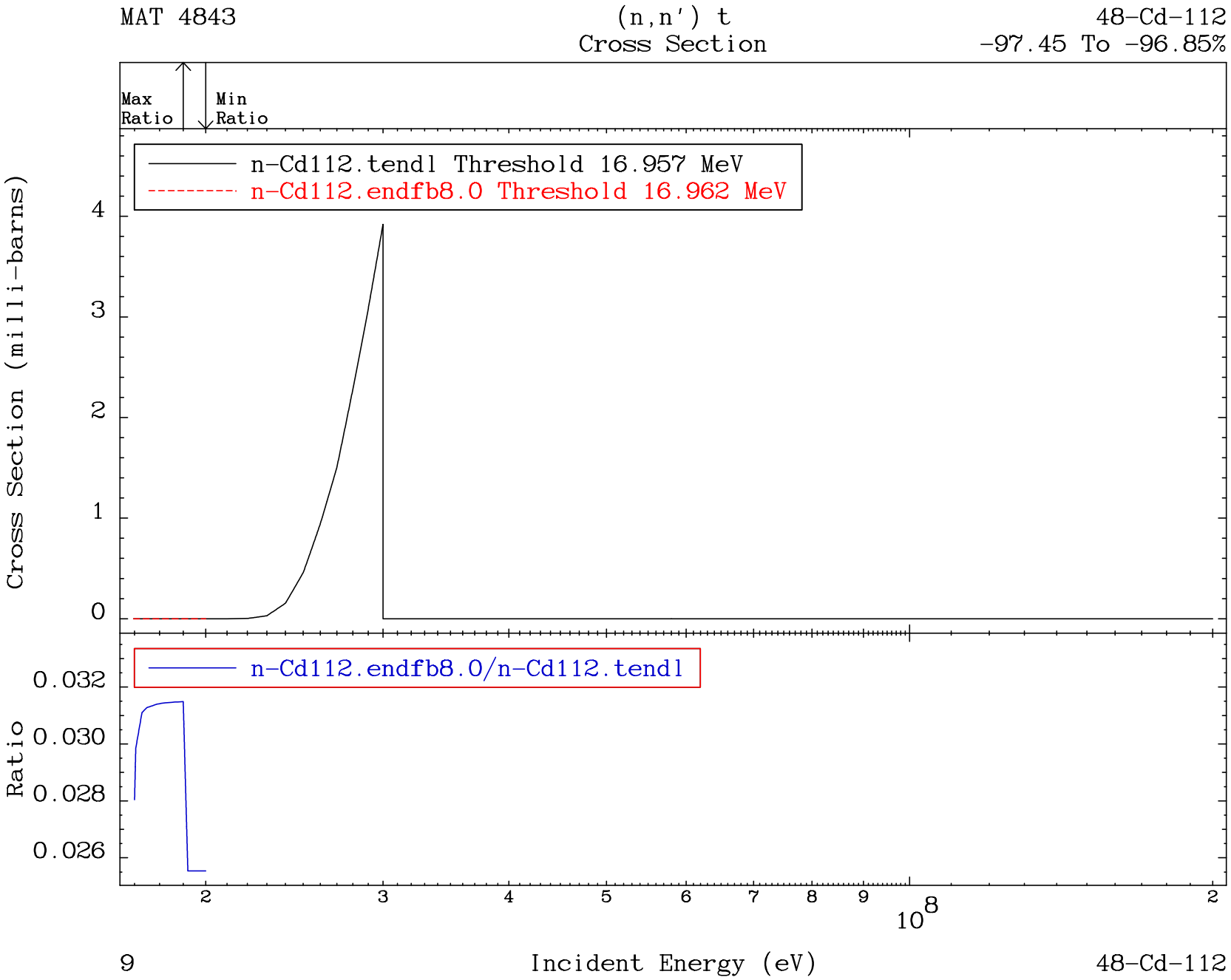

MAT 4843
(n,2n)
Cross Section
48-Cd-112
-23.38 To 37.76 %
Min Ratio
Max Ratio
n-Cd112.tendl Threshold 9.4786 MeV
n-Cd112.endfb8.0 Threshold 9.4818 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
1.4
1.2
1.0
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
48-Cd-112

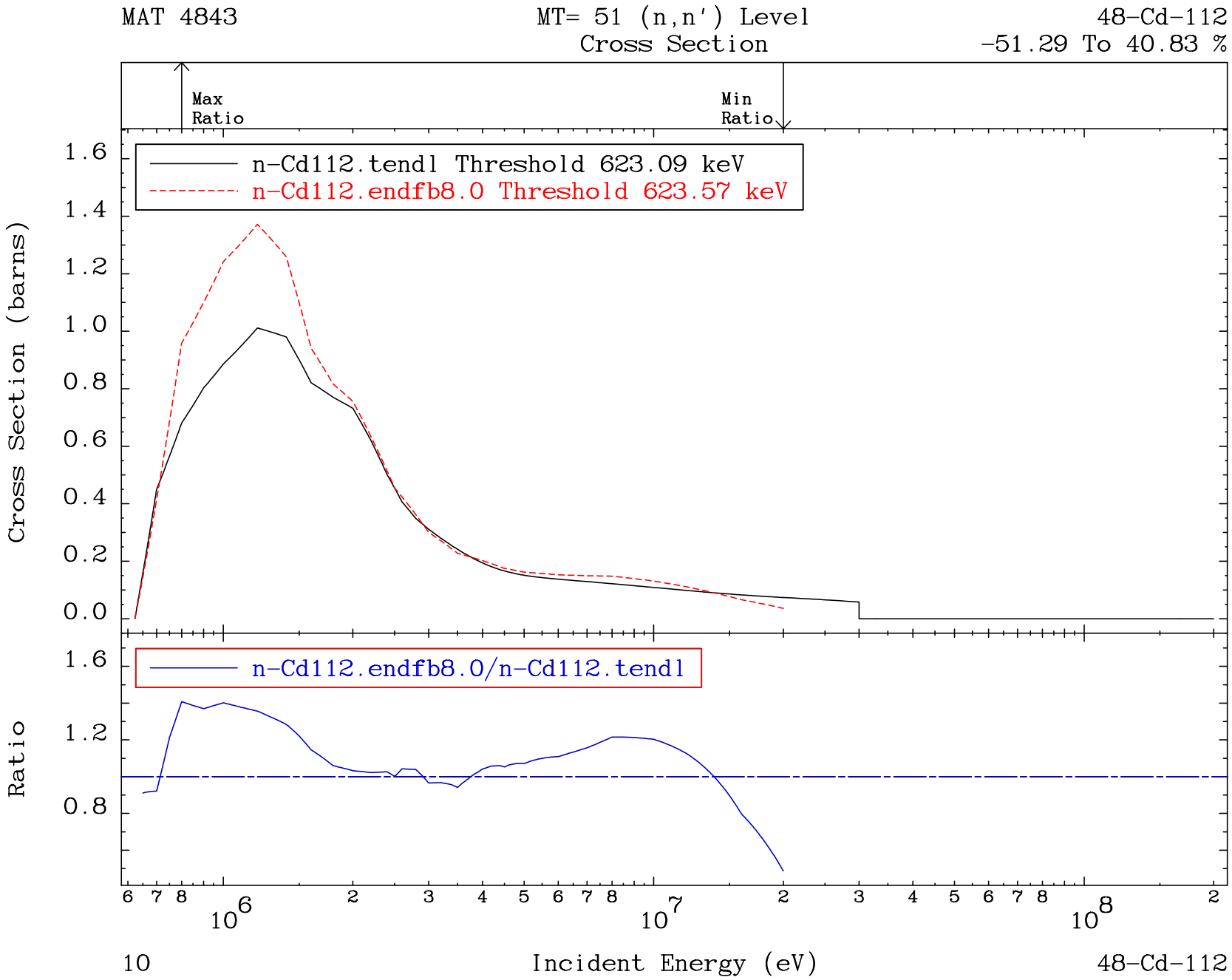

MAT 4843
(n,3n)
Cross Section
48-Cd-112
113.7 To 1223. %
Min
Ratio
n-Cd112.tendl Threshold 16.517 MeV
n-Cd112.endfb8.0 Threshold 16.522 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
16
12
8
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
48-Cd-112

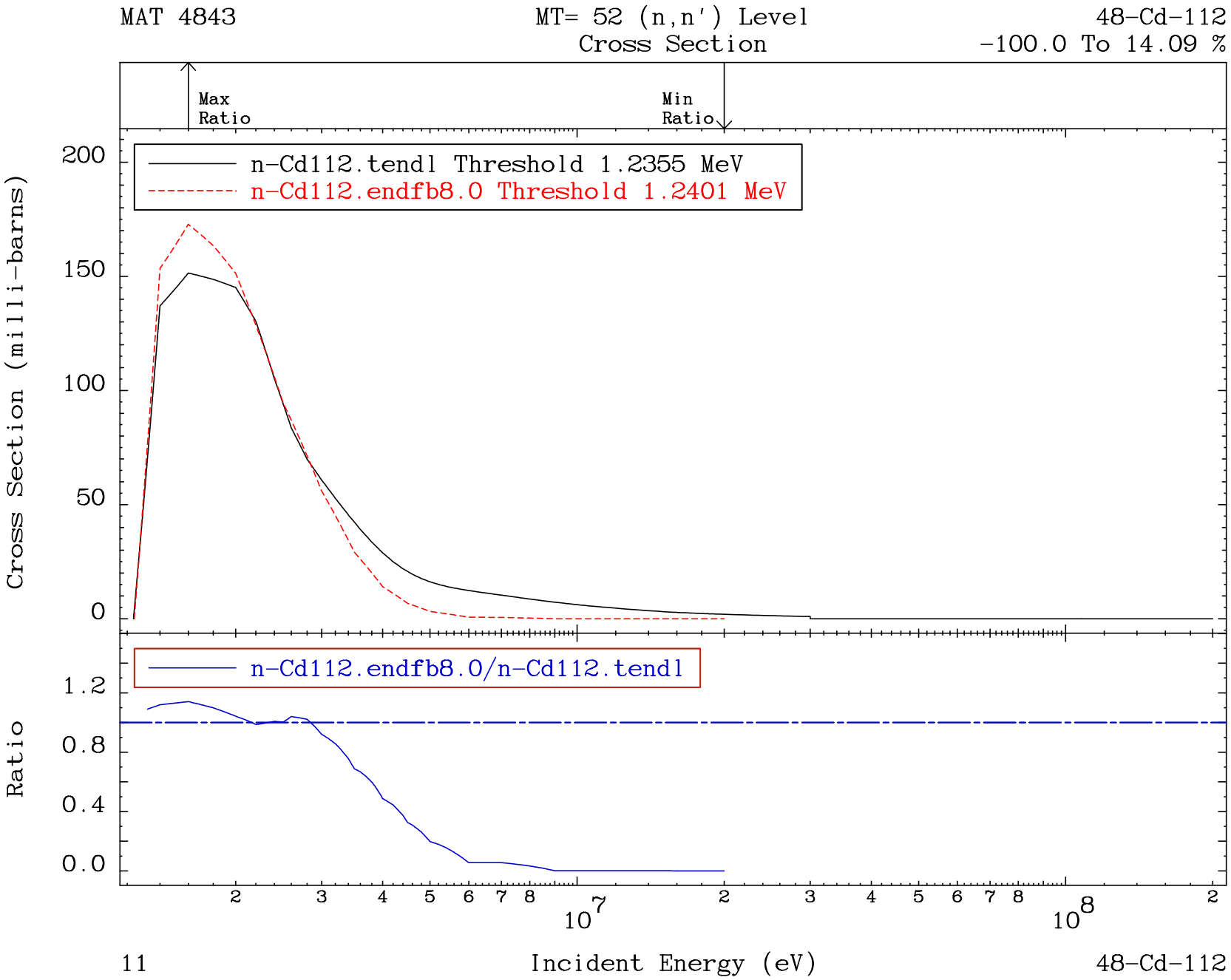

MAT 4843
(n,n') α
Cross Section
48-Cd-112
-70.85 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 3.5069 MeV
n-Cd112.endfb8.0 Threshold 3.5113 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
48-Cd-112

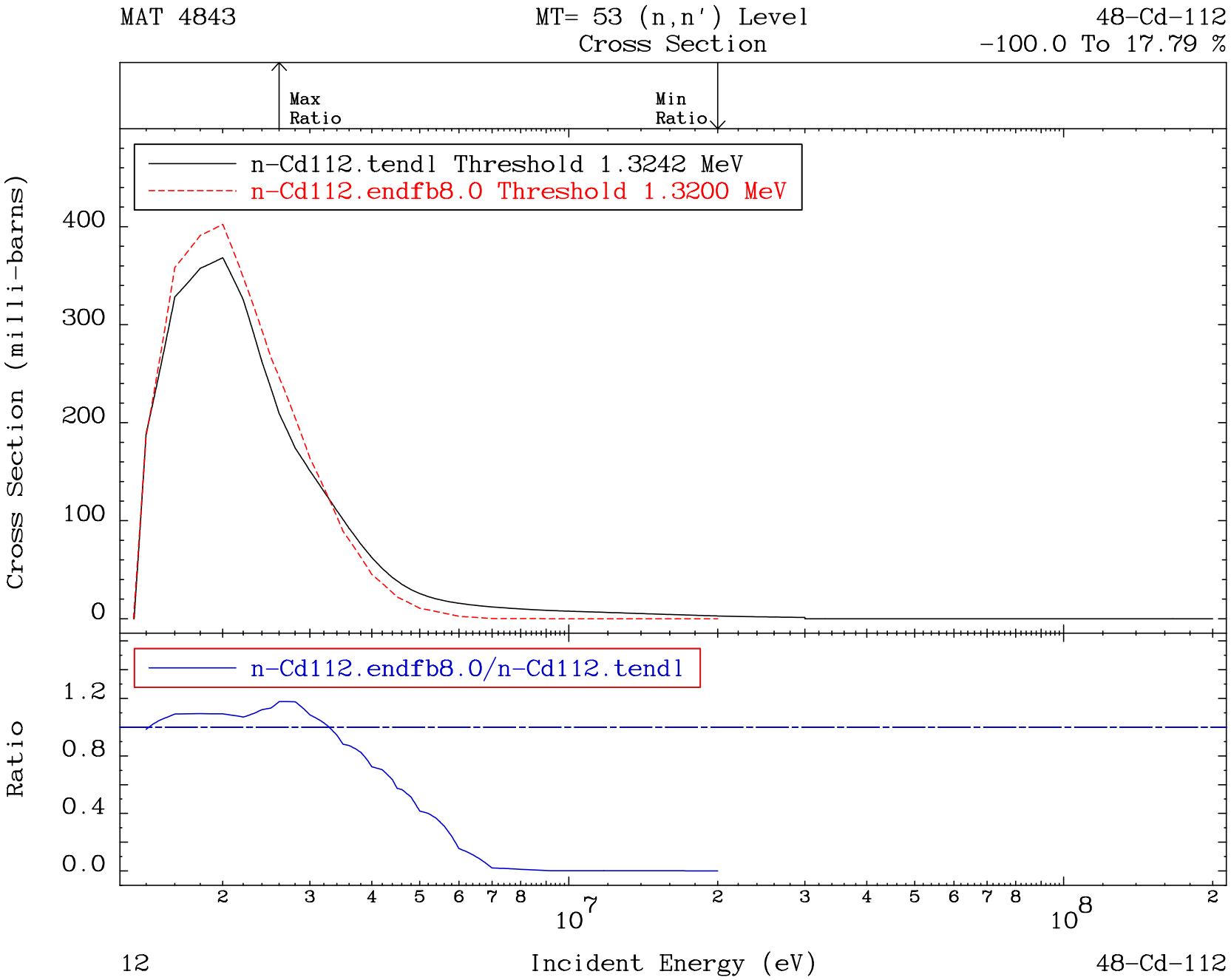

MAT 4843
(n,n') p
Cross Section
48-Cd-112
-99.83 To 8215. %
Min
Ratio
n-Cd112.tendl Threshold 9.7354 MeV
n-Cd112.endfb8.0 Threshold 9.7288 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^2
10^0
10^-2
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
48-Cd-112

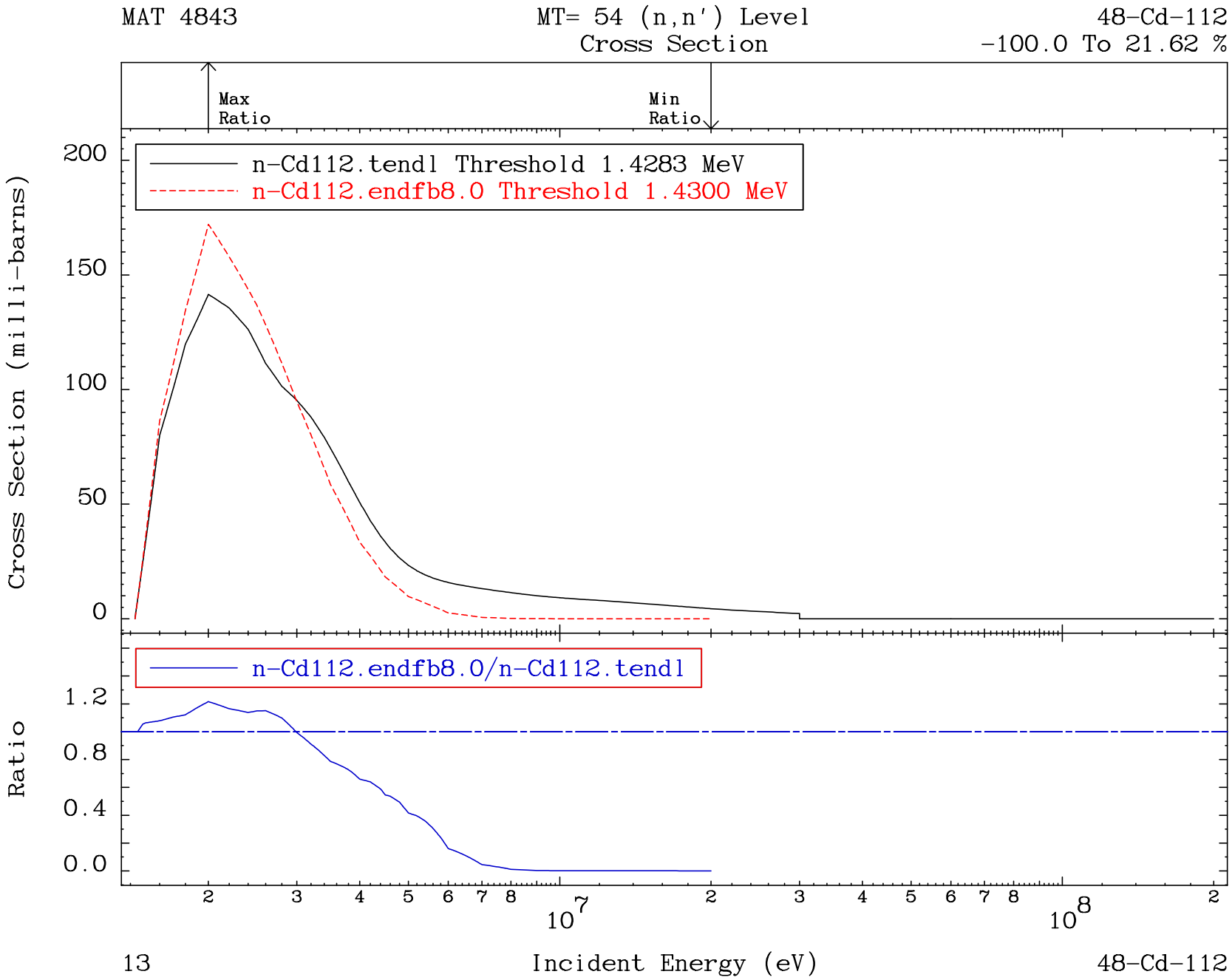

MAT 4843
(n,n') d
Cross Section
48-Cd-112
-99.98 To -99.96%
Min
Ratio
n-Cd112.tendl Threshold 16.400 MeV
n-Cd112.endfb8.0 Threshold 16.412 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
500
400
300
200
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
48-Cd-112

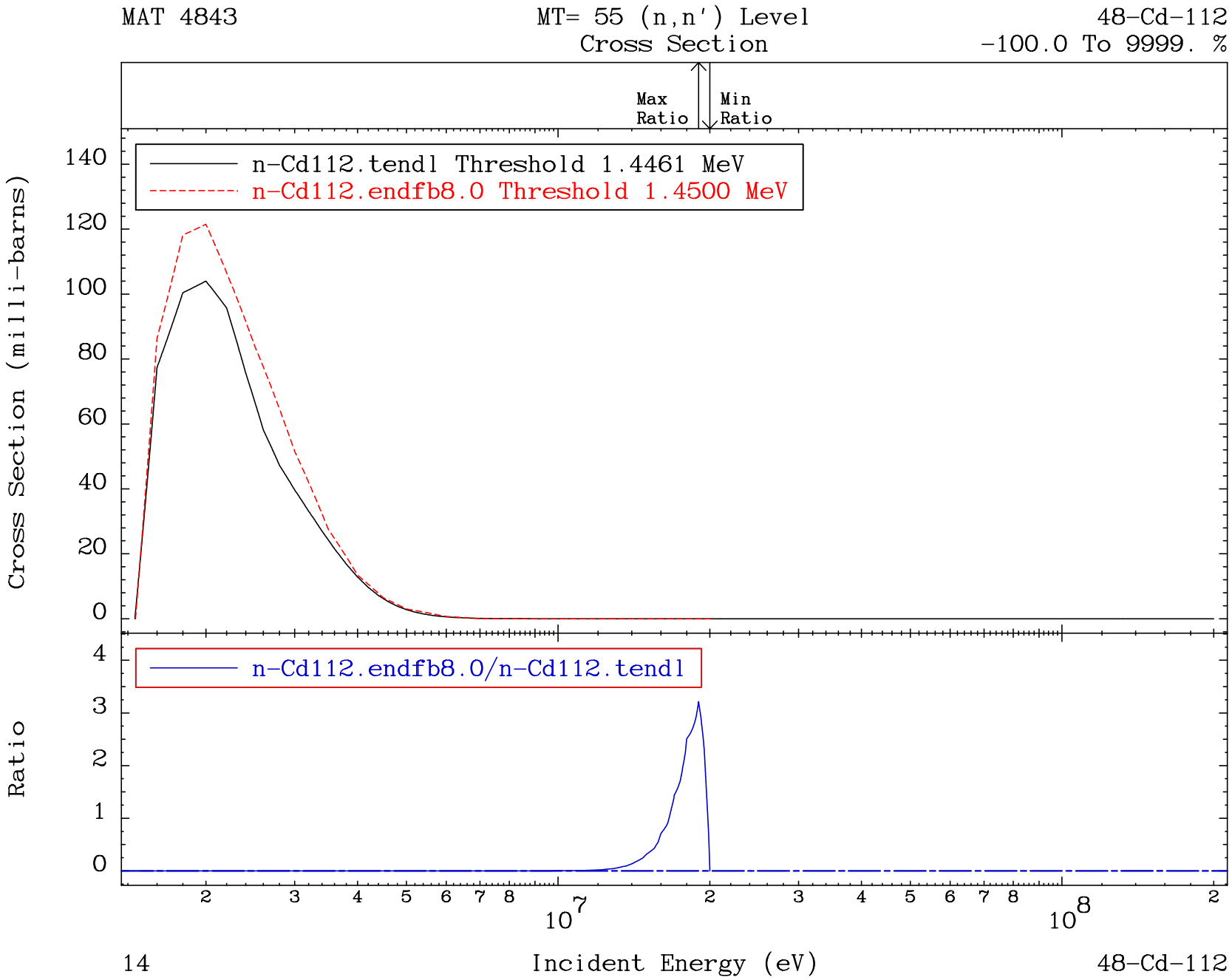

MAT 4843
(n,n') t
Cross Section
48-Cd-112
-97.45 To -96.85%
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 16.957 MeV
n-Cd112.endfb8.0 Threshold 16.962 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
0.026
0.028
0.030
0.032
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
48-Cd-112

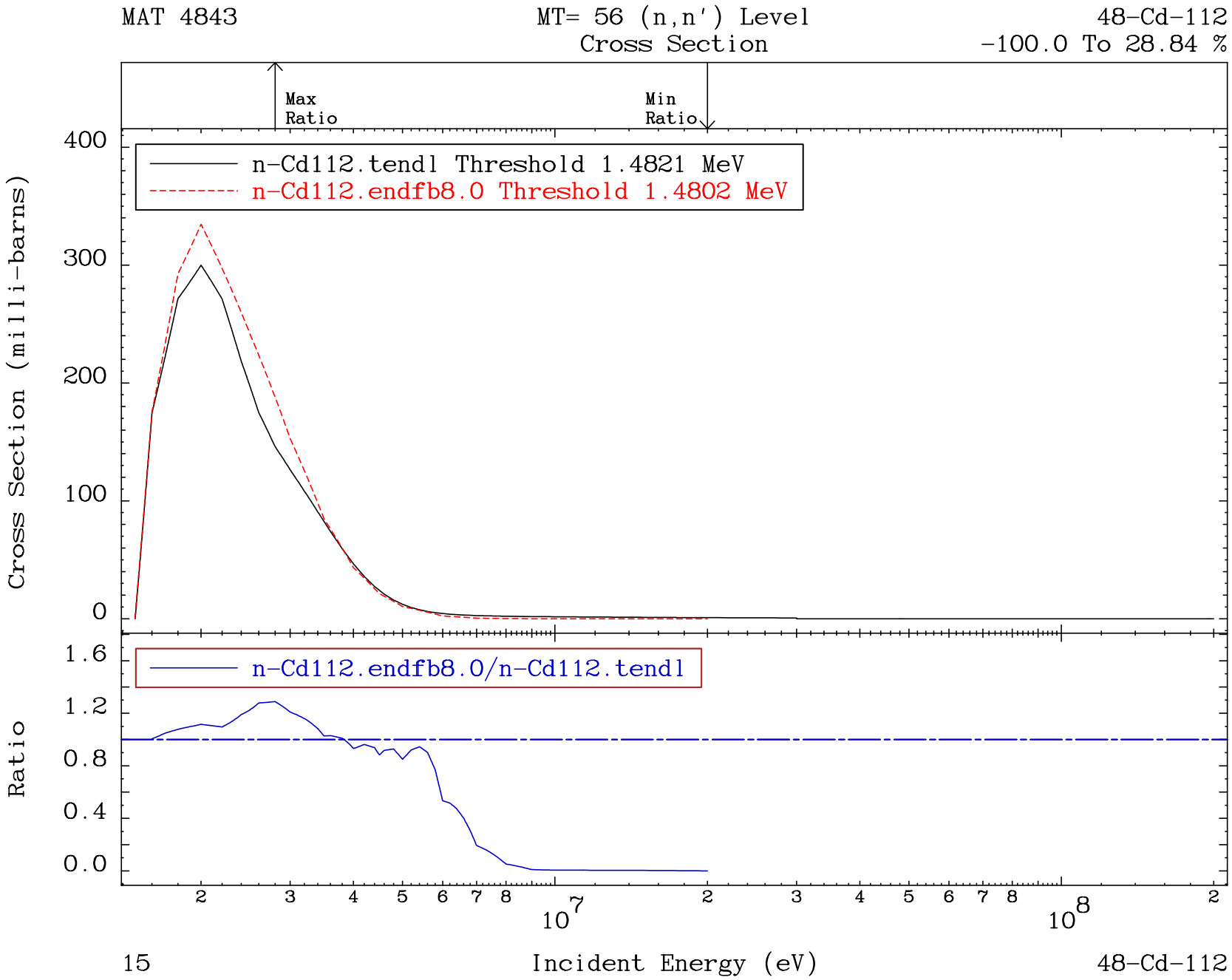

MAT 4843
MT= 51 (n,n') Level
Cross Section
48-Cd-112
-51.29 To 40.83 %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 623.09 keV
n-Cd112.endfb8.0 Threshold 623.57 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
1.6
1.2
0.8
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
48-Cd-112

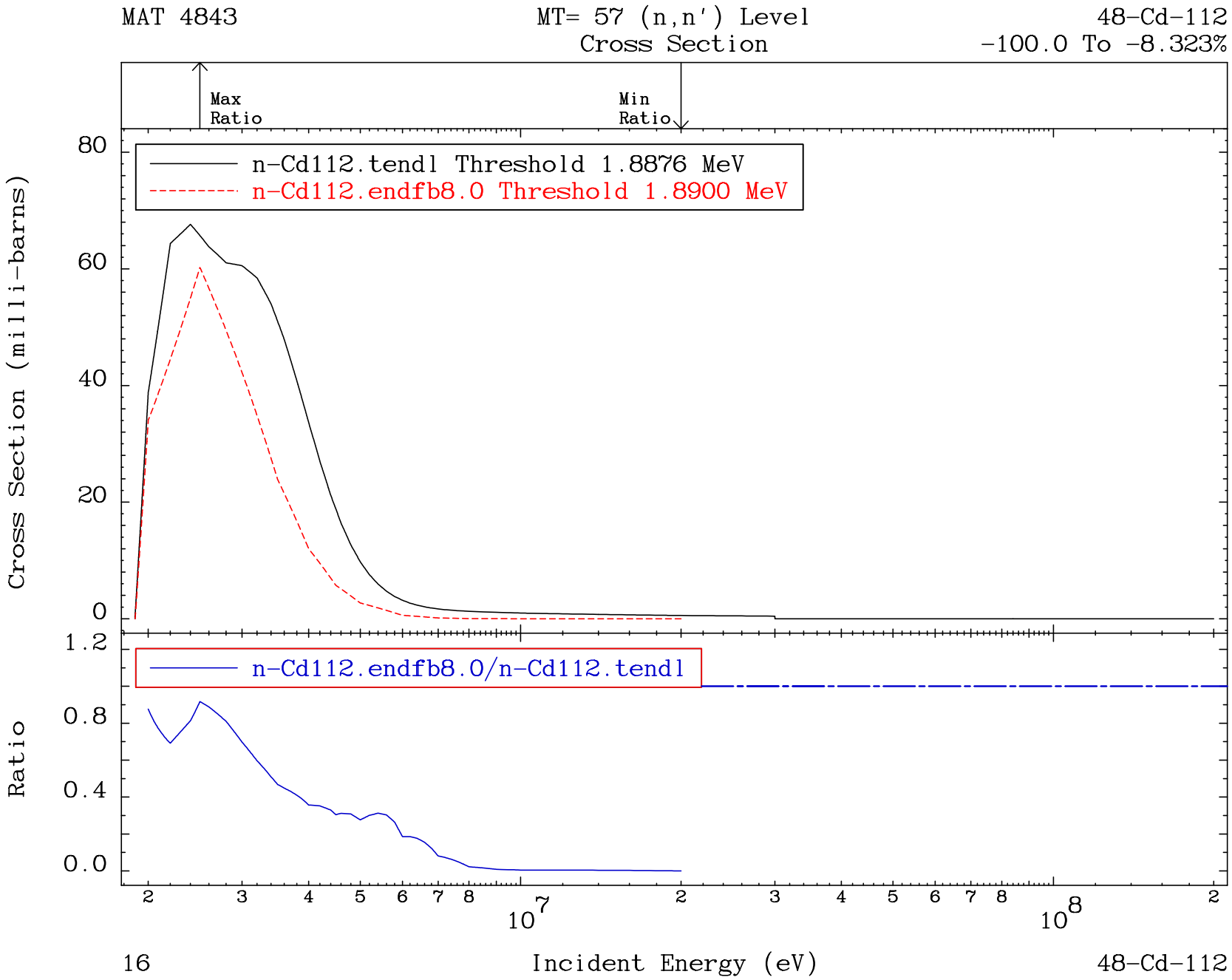

MAT 4843
MT= 52 (n,n') Level
Cross Section
48-Cd-112
-100.0 To 14.09 %
Max
Ratio
Min
Ratio
n-Cd112.tendl Threshold 1.2355 MeV
n-Cd112.endfb8.0 Threshold 1.2401 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
1.2
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
48-Cd-112

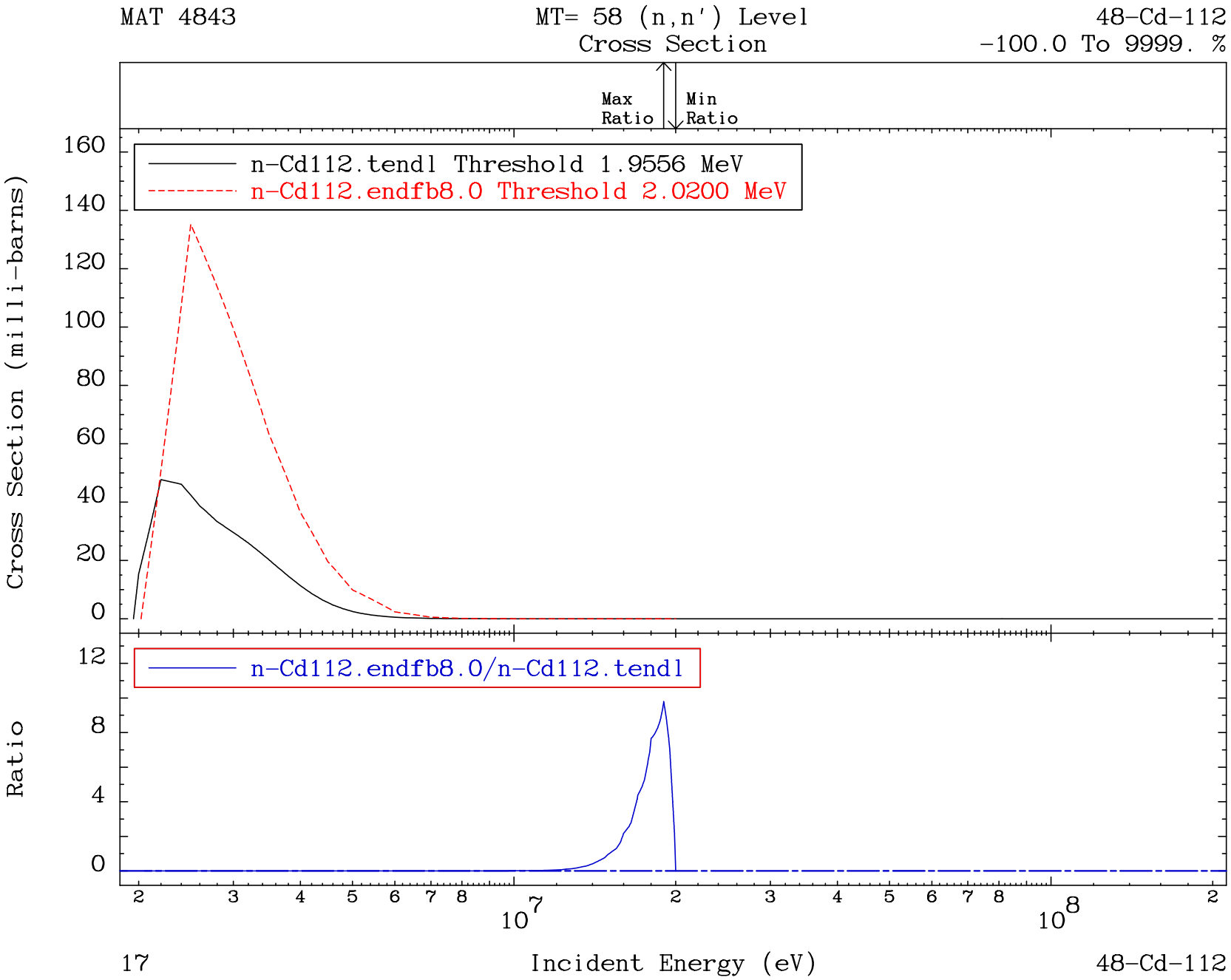

MAT 4843
MT= 53 (n,n') Level
Cross Section
48-Cd-112
-100.0 To 17.79 %
Max
Ratio
Min
Ratio
n-Cd112.tendl Threshold 1.3242 MeV
n-Cd112.endfb8.0 Threshold 1.3200 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
48-Cd-112

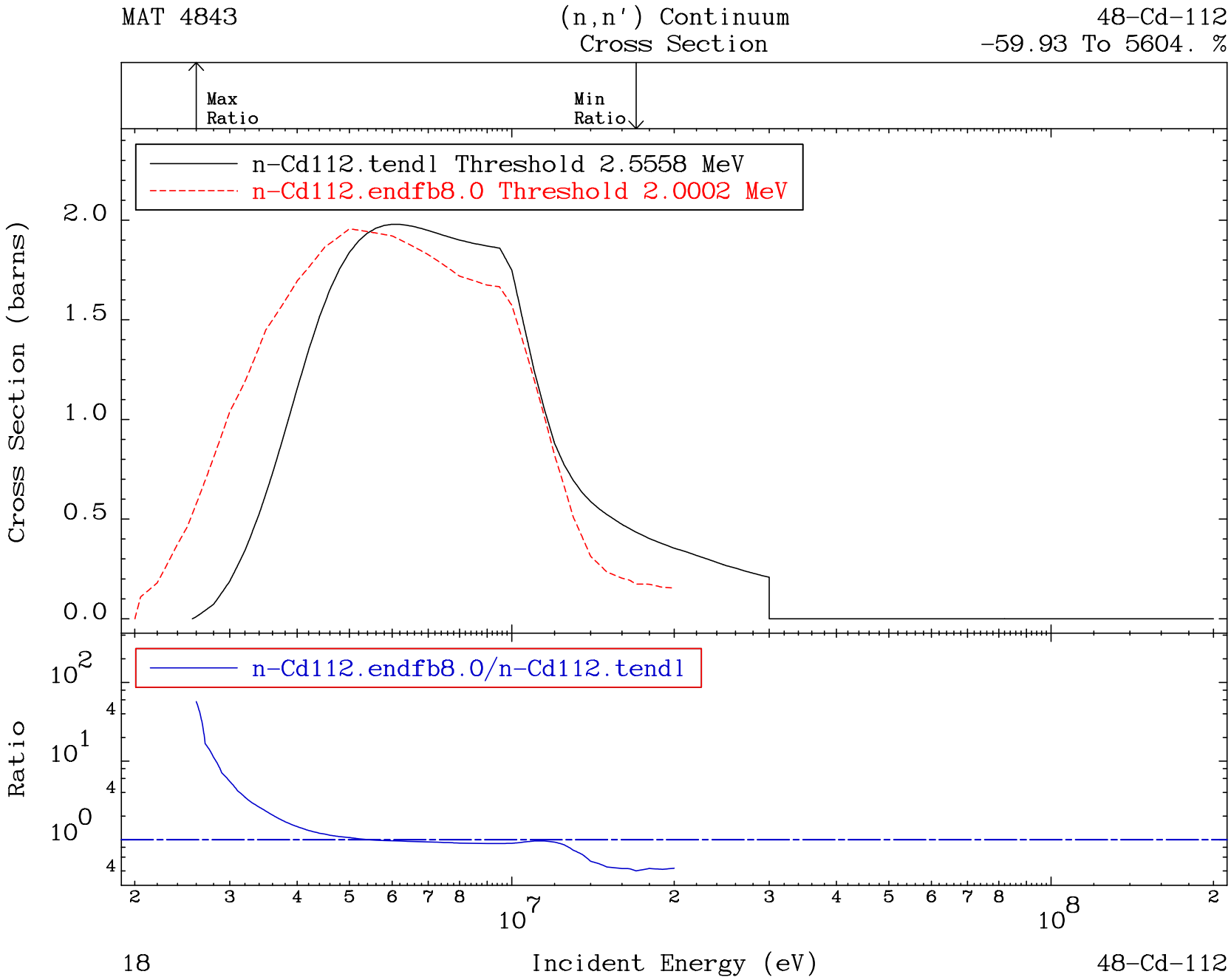

MAT 4843
MT= 54 (n,n') Level
Cross Section
48-Cd-112
-100.0 To 21.62 %
Max
Ratio
Min
Ratio
n-Cd112.tendl Threshold 1.4283 MeV
n-Cd112.endfb8.0 Threshold 1.4300 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
48-Cd-112

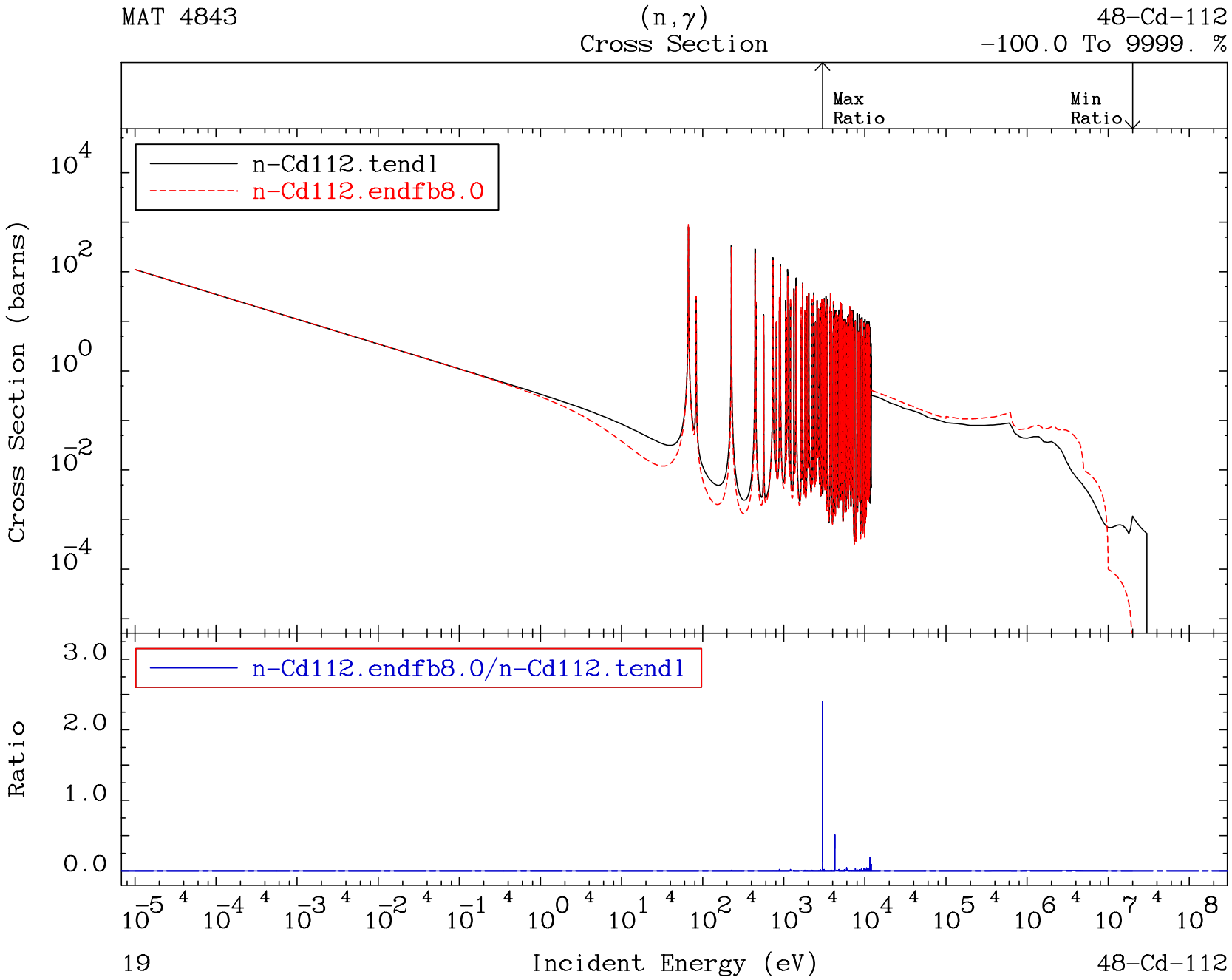

MAT 4843
MT= 55 (n,n') Level
Cross Section
48-Cd-112
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 1.4461 MeV
n-Cd112.endfb8.0 Threshold 1.4500 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
4
3
2
1
0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
48-Cd-112

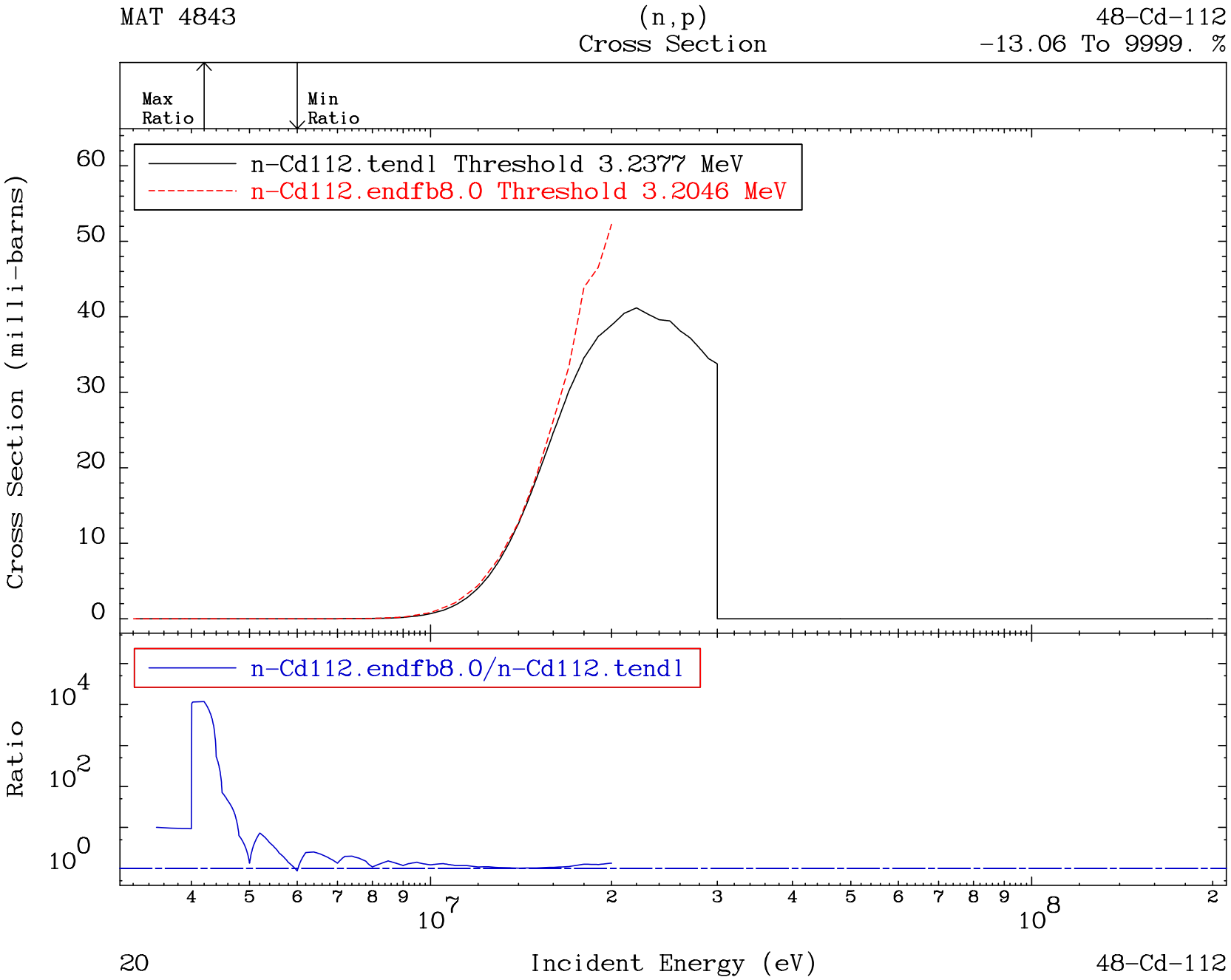

MAT 4843
MT= 56 (n,n') Level
Cross Section
48-Cd-112
-100.0 To 28.84 %
Max
Ratio
Min
Ratio
n-Cd112.tendl Threshold 1.4821 MeV
n-Cd112.endfb8.0 Threshold 1.4802 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
1.6
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
48-Cd-112

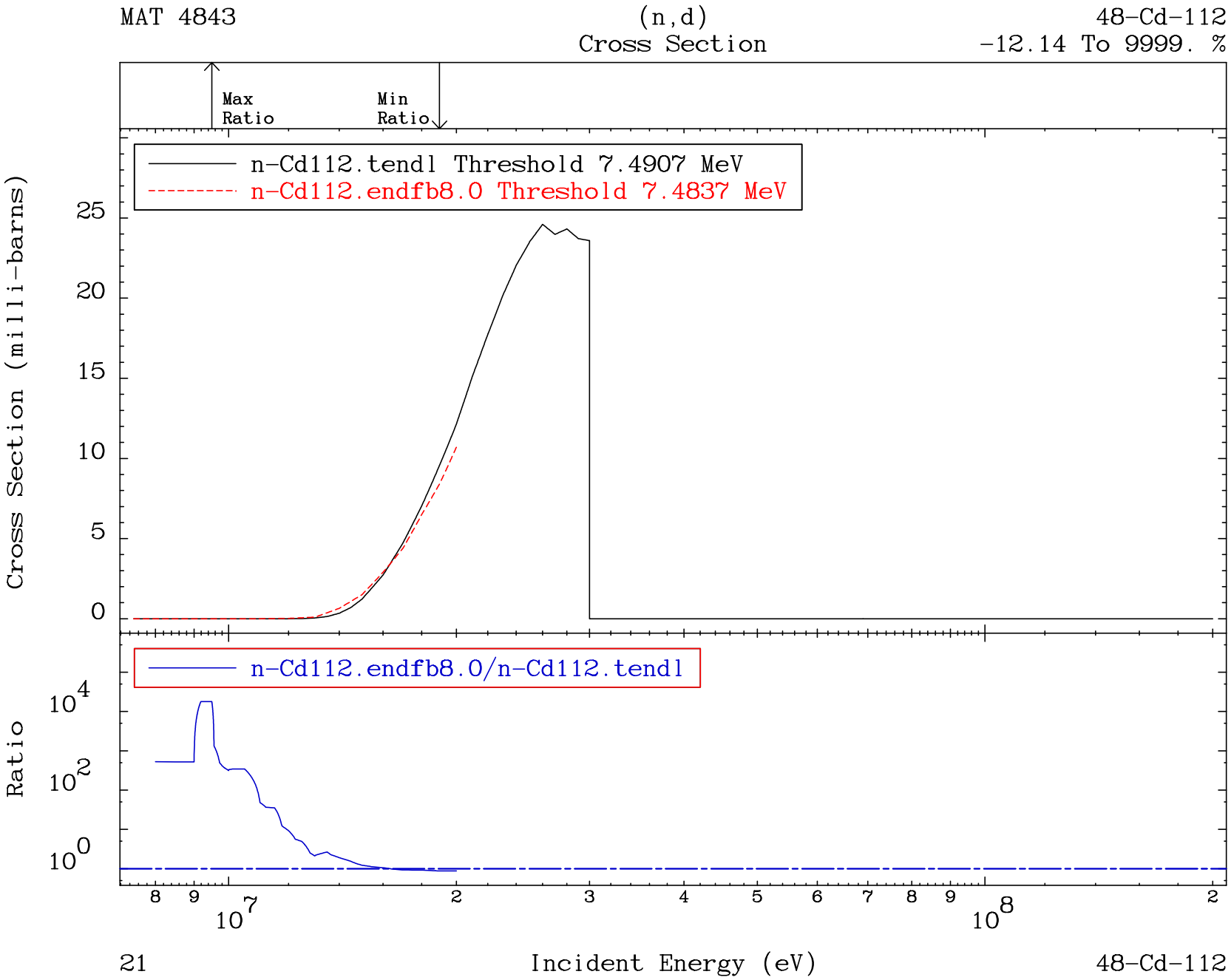

MAT 4843
MT= 57 (n,n') Level
Cross Section
48-Cd-112
-100.0 To -8.323%
Max
Ratio
Min
Ratio
n-Cd112.tendl Threshold 1.8876 MeV
n-Cd112.endfb8.0 Threshold 1.8900 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
10^8
16
Incident Energy (eV)
48-Cd-112

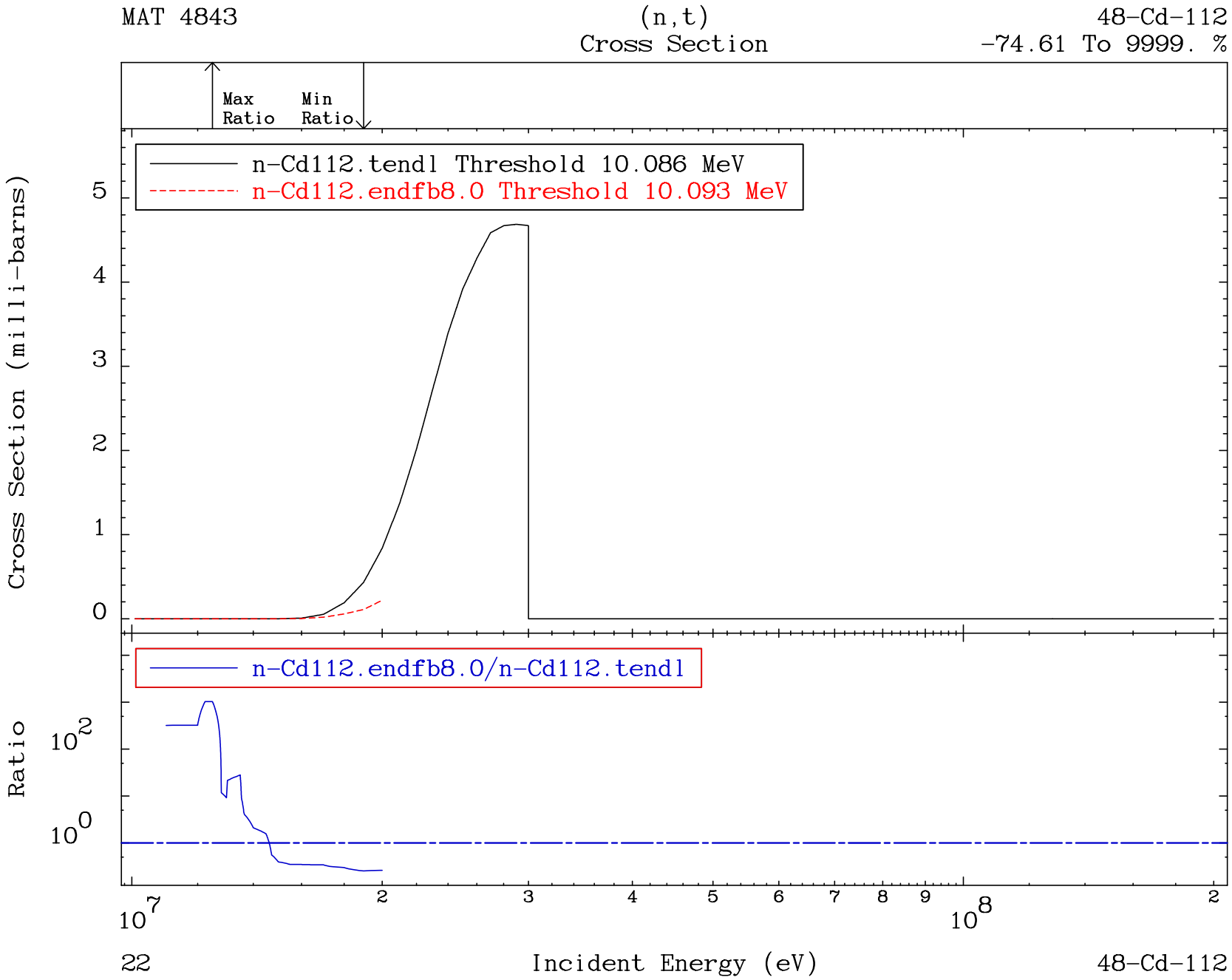

MAT 4843
MT= 58 (n,n') Level
Cross Section
48-Cd-112
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 1.9556 MeV
n-Cd112.endfb8.0 Threshold 2.0200 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
12
8
4
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
48-Cd-112

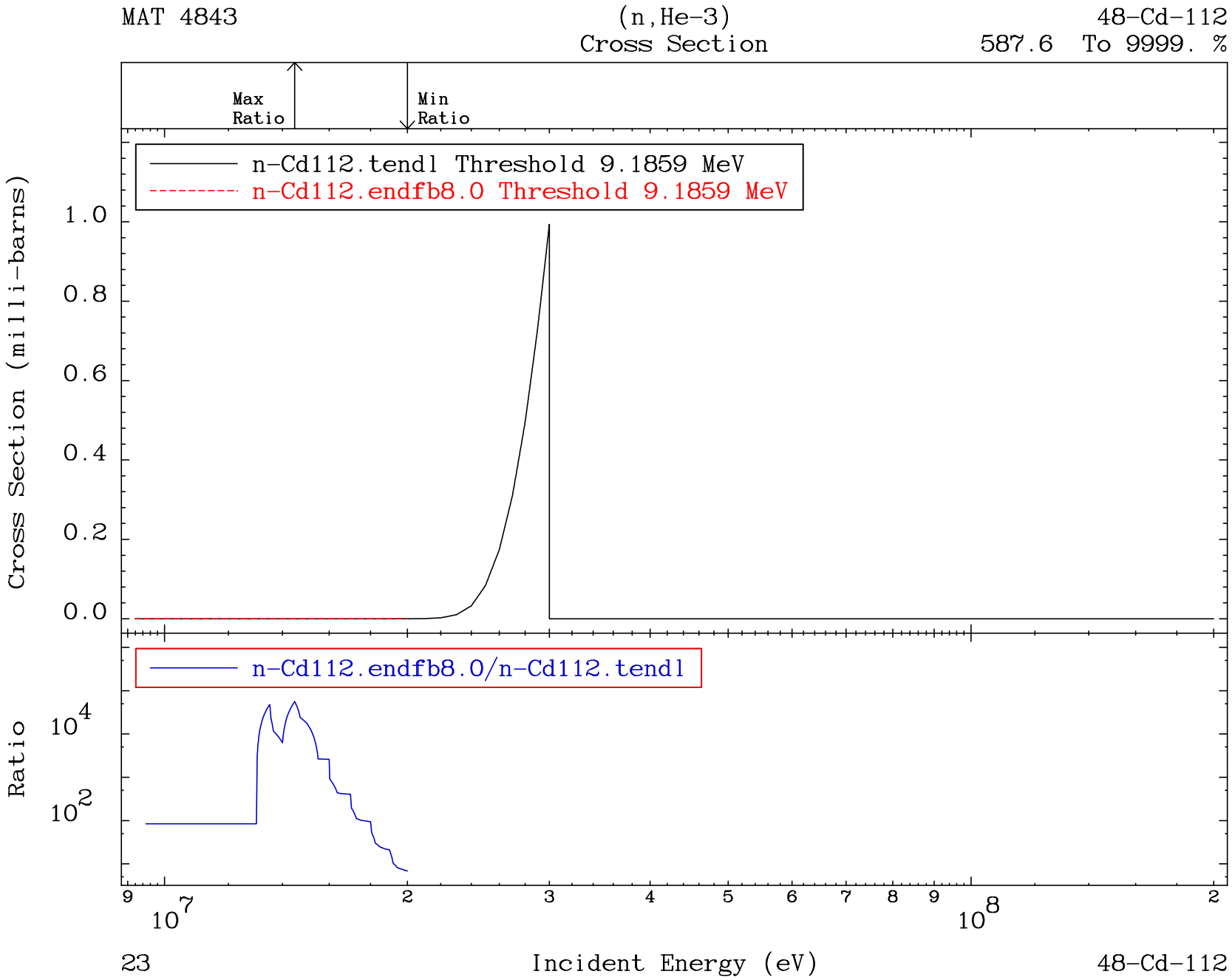

MAT 4843
(n,n') Continuum
Cross Section
48-Cd-112
-59.93 To 5604. %
Max
Ratio
Min
Ratio
n-Cd112.tendl Threshold 2.5558 MeV
n-Cd112.endfb8.0 Threshold 2.0002 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
10^7
10^8
18
Incident Energy (eV)
48-Cd-112

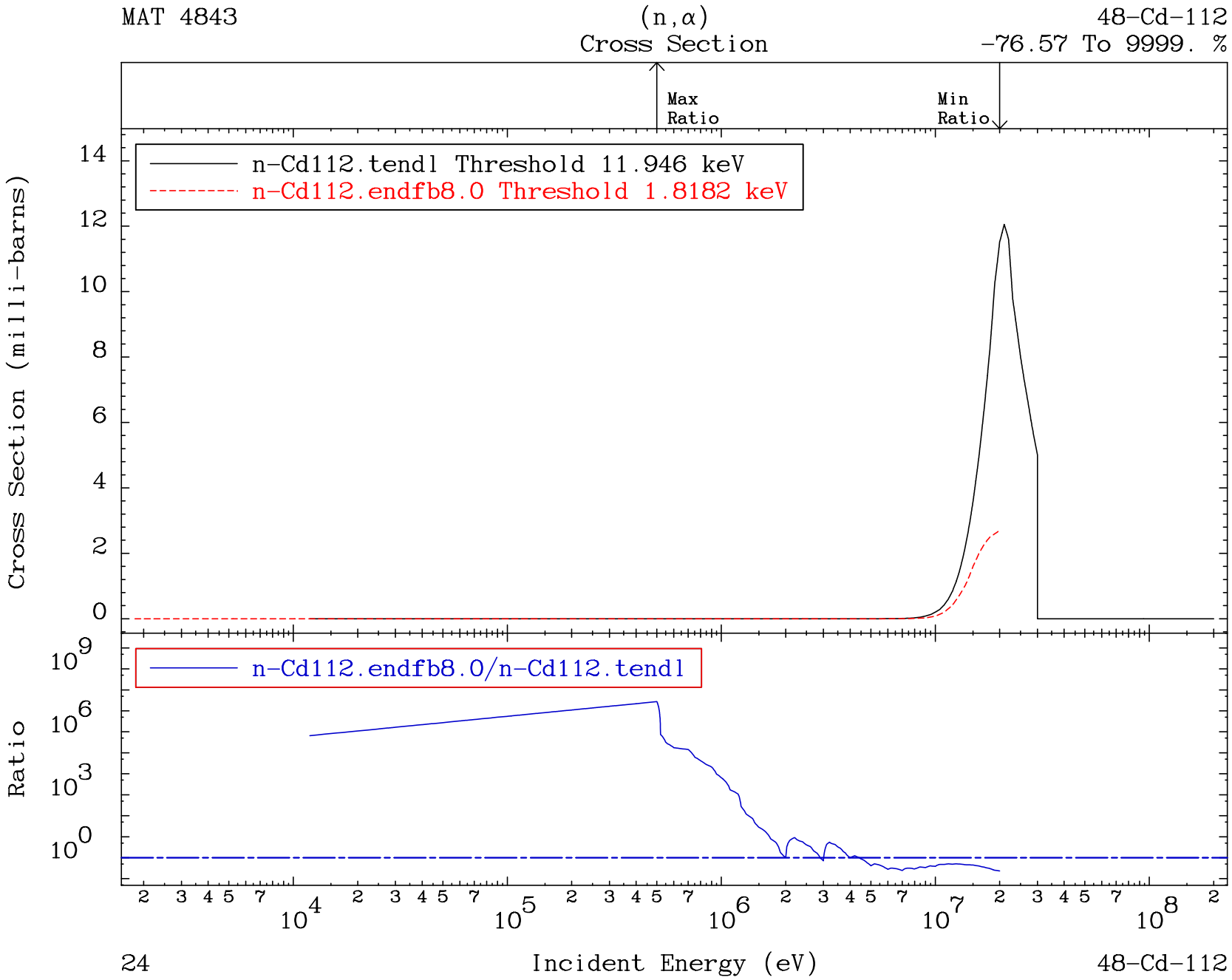

MAT 4843
(n,γ)
Cross Section
48-Cd-112
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl
n-Cd112.endfb8.0
Cross Section (barns)
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
Incident Energy (eV)
19
48-Cd-112

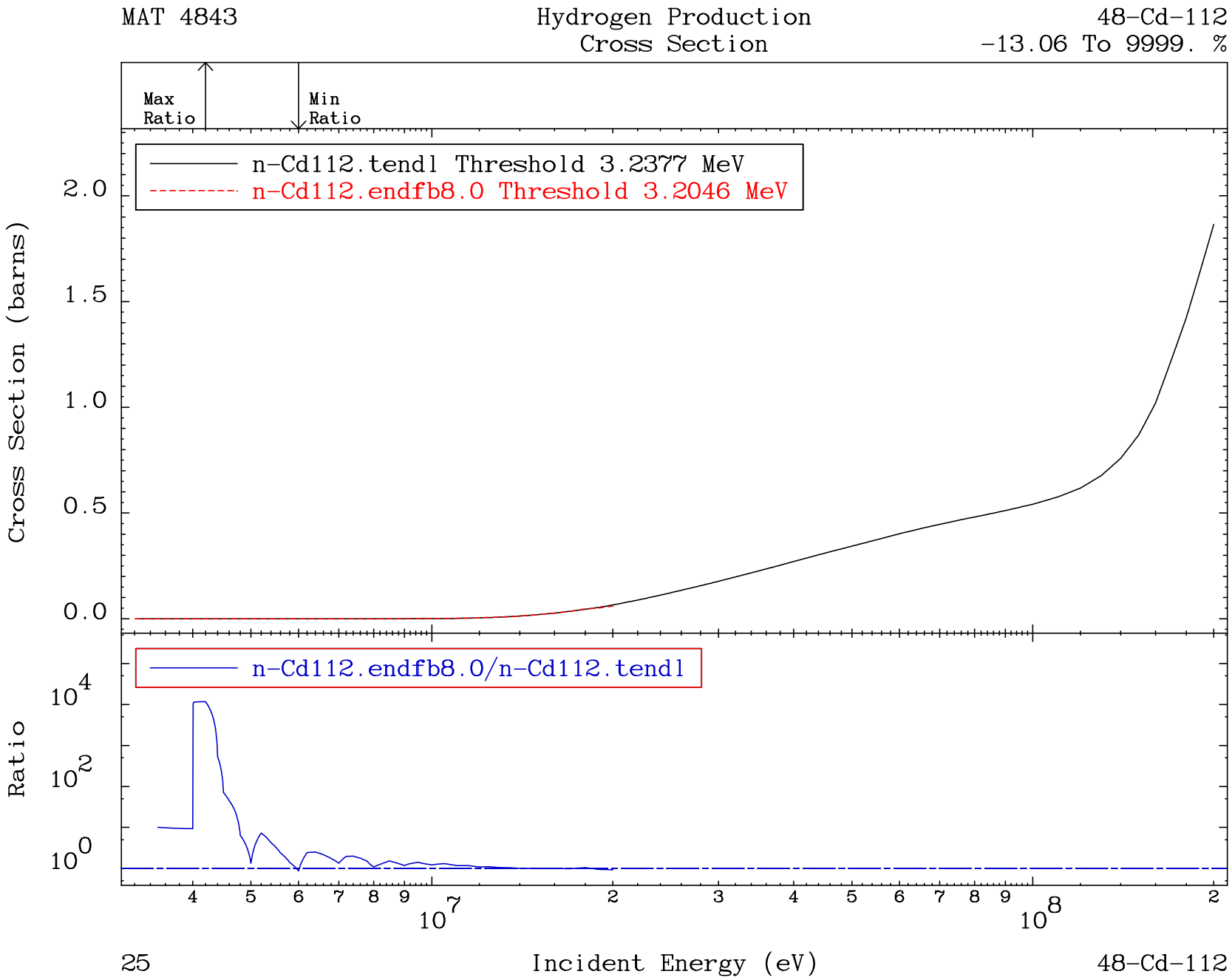

MAT 4843
(n,p)
Cross Section
48-Cd-112
-13.06 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 3.2377 MeV
n-Cd112.endfb8.0 Threshold 3.2046 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
48-Cd-112

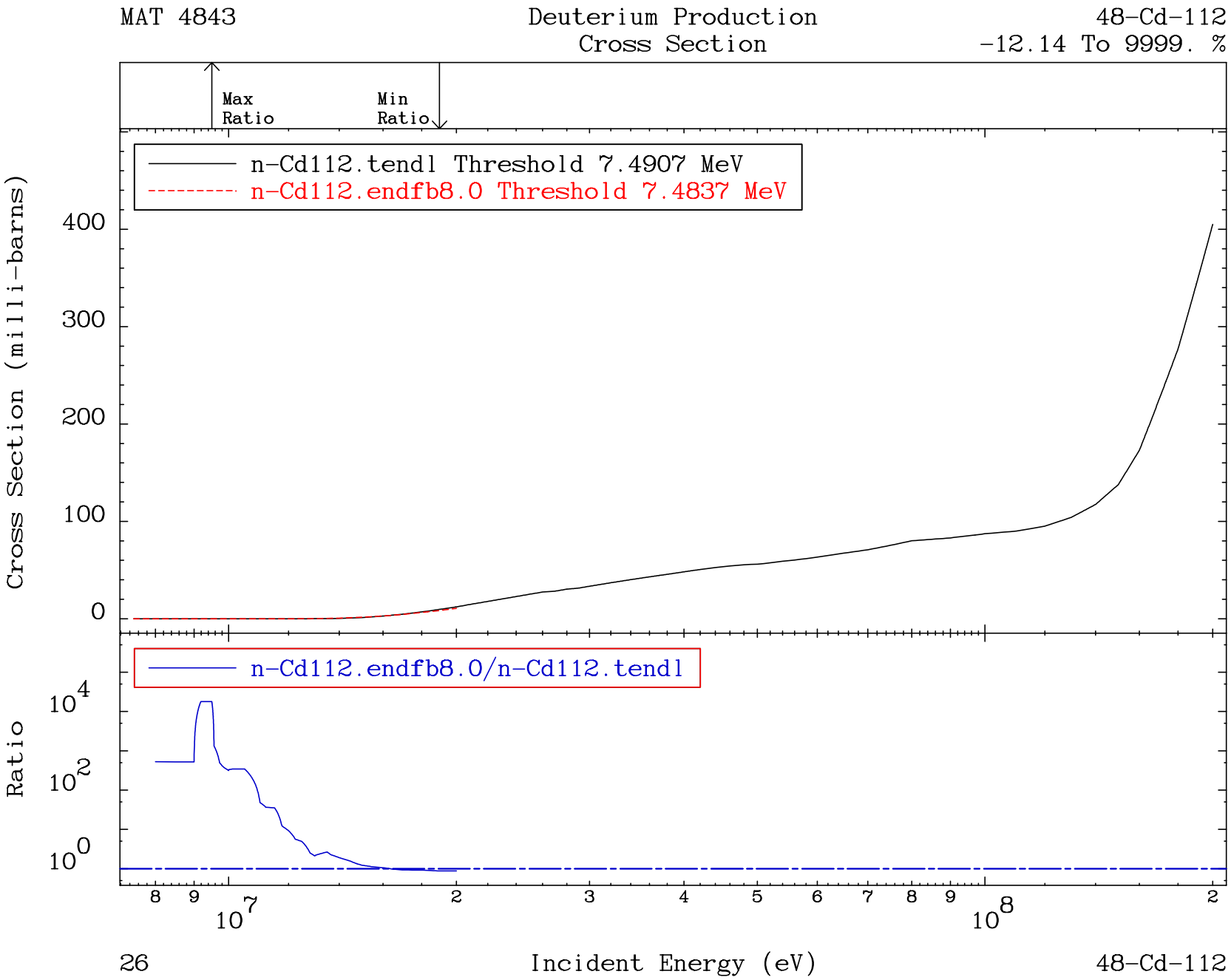

MAT 4843
(n,d)
Cross Section
48-Cd-112
-12.14 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 7.4907 MeV
n-Cd112.endfb8.0 Threshold 7.4837 MeV
Cross Section (milli-barns)
0
5
10
15
20
25
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^0
10^2
10^4
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
48-Cd-112

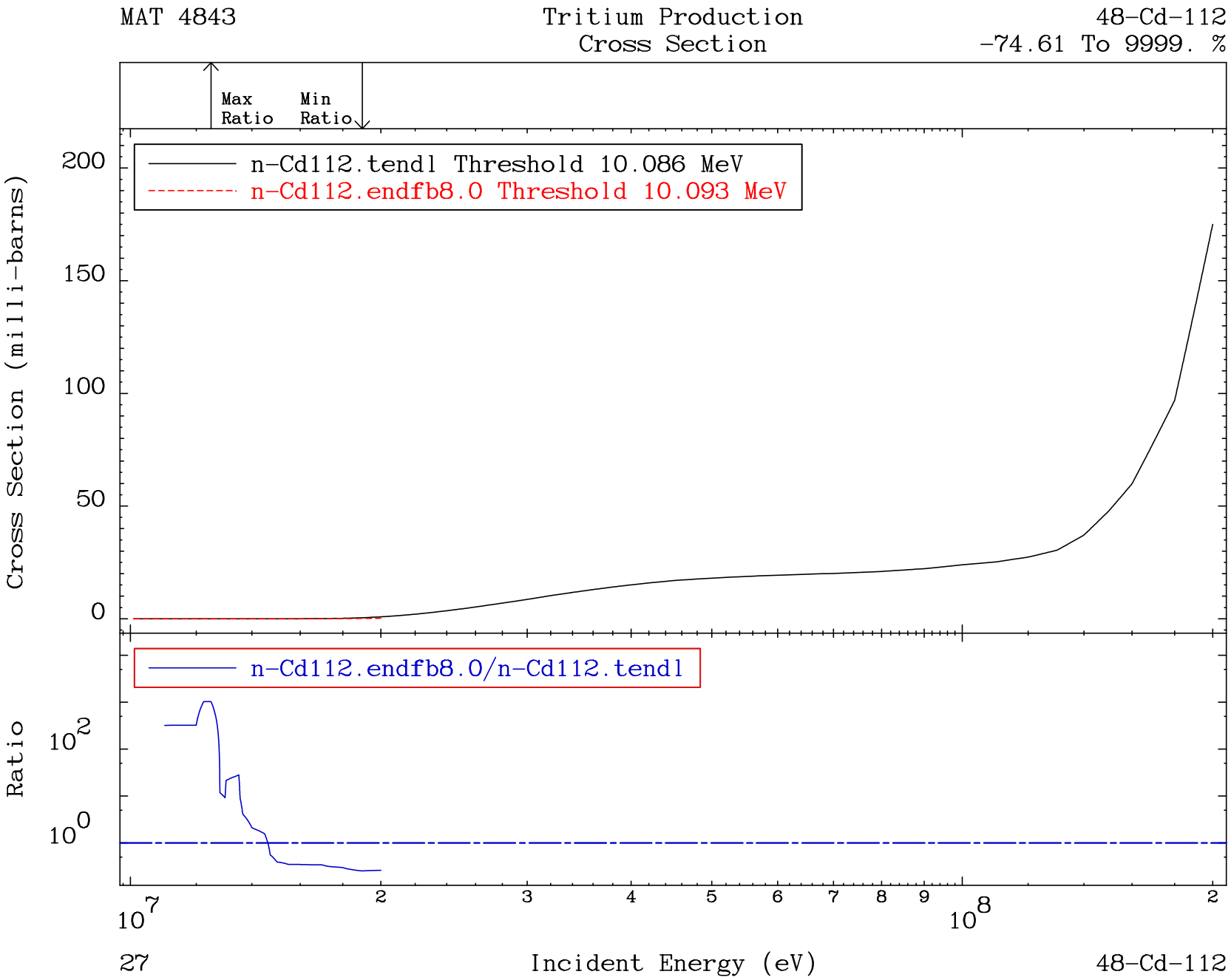

MAT 4843
(n,t)
Cross Section
48-Cd-112
-74.61 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 10.086 MeV
n-Cd112.endfb8.0 Threshold 10.093 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^2
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
22
Incident Energy (eV)
48-Cd-112

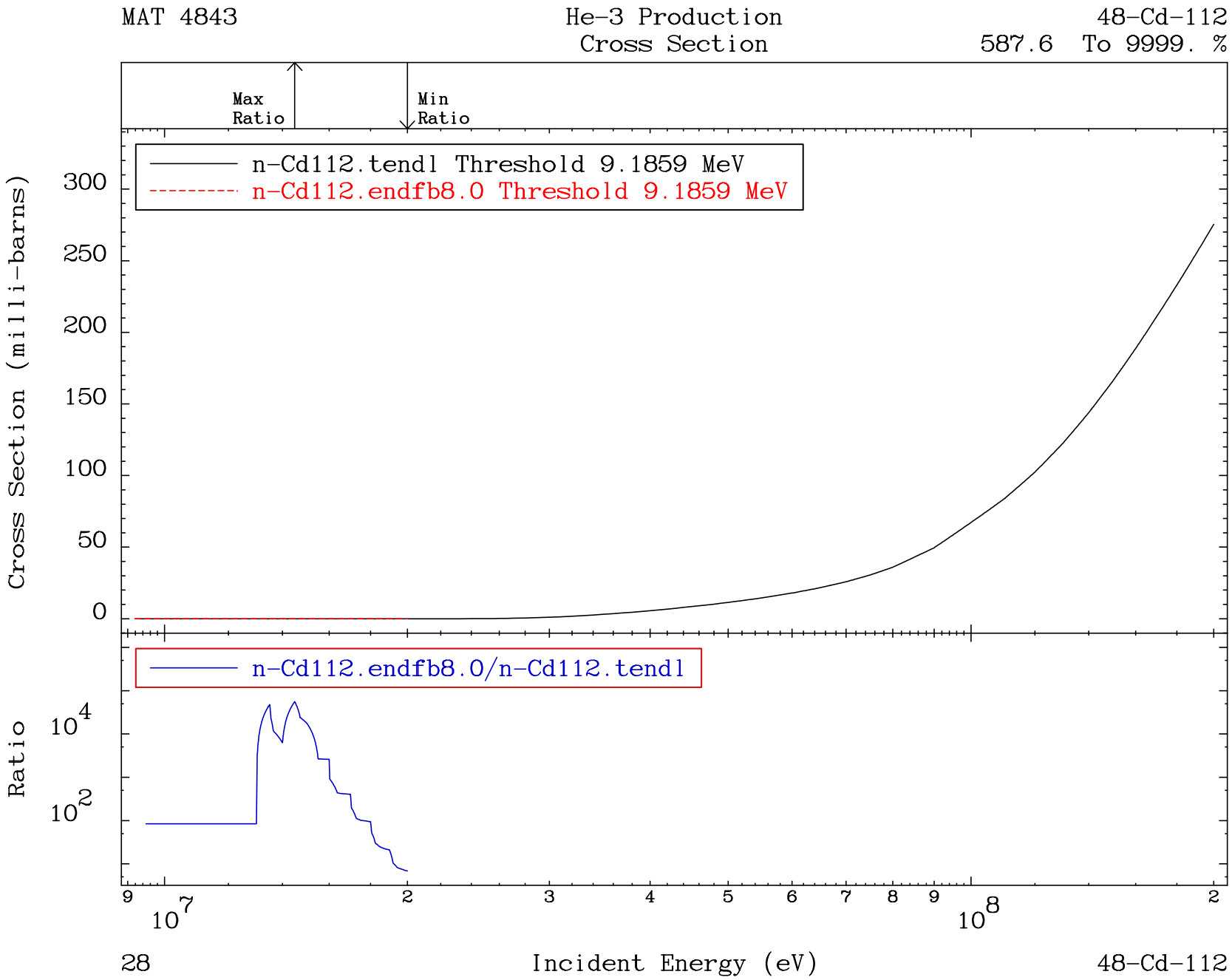

MAT 4843
(n,He-3)
Cross Section
48-Cd-112
587.6 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 9.1859 MeV
n-Cd112.endfb8.0 Threshold 9.1859 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^4
10^2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
23
Incident Energy (eV)
48-Cd-112

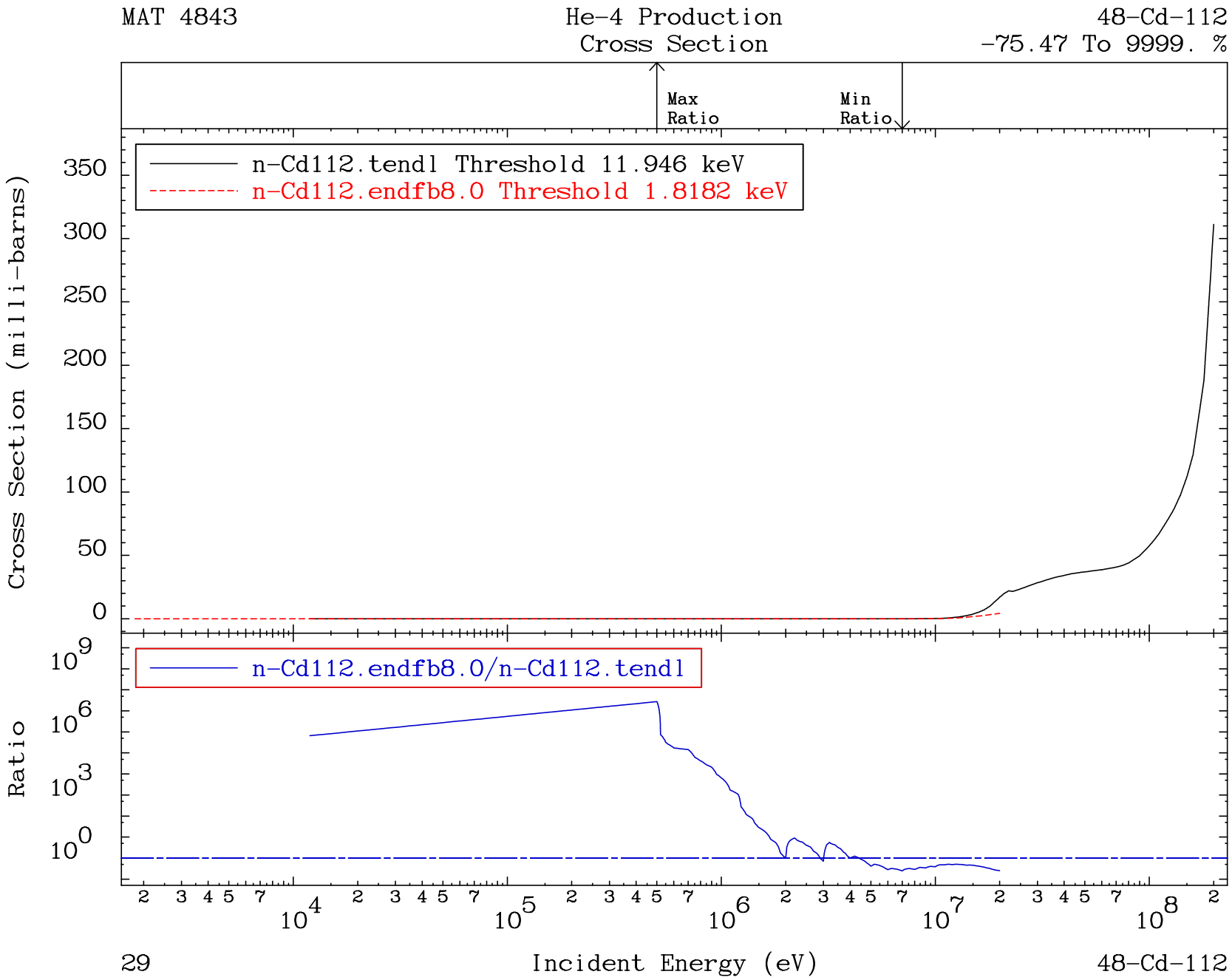

MAT 4843
(n,α)
Cross Section
48-Cd-112
-76.57 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 11.946 keV
n-Cd112.endfb8.0 Threshold 1.8182 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^0
10^3
10^6
10^9
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
24
Incident Energy (eV)
48-Cd-112

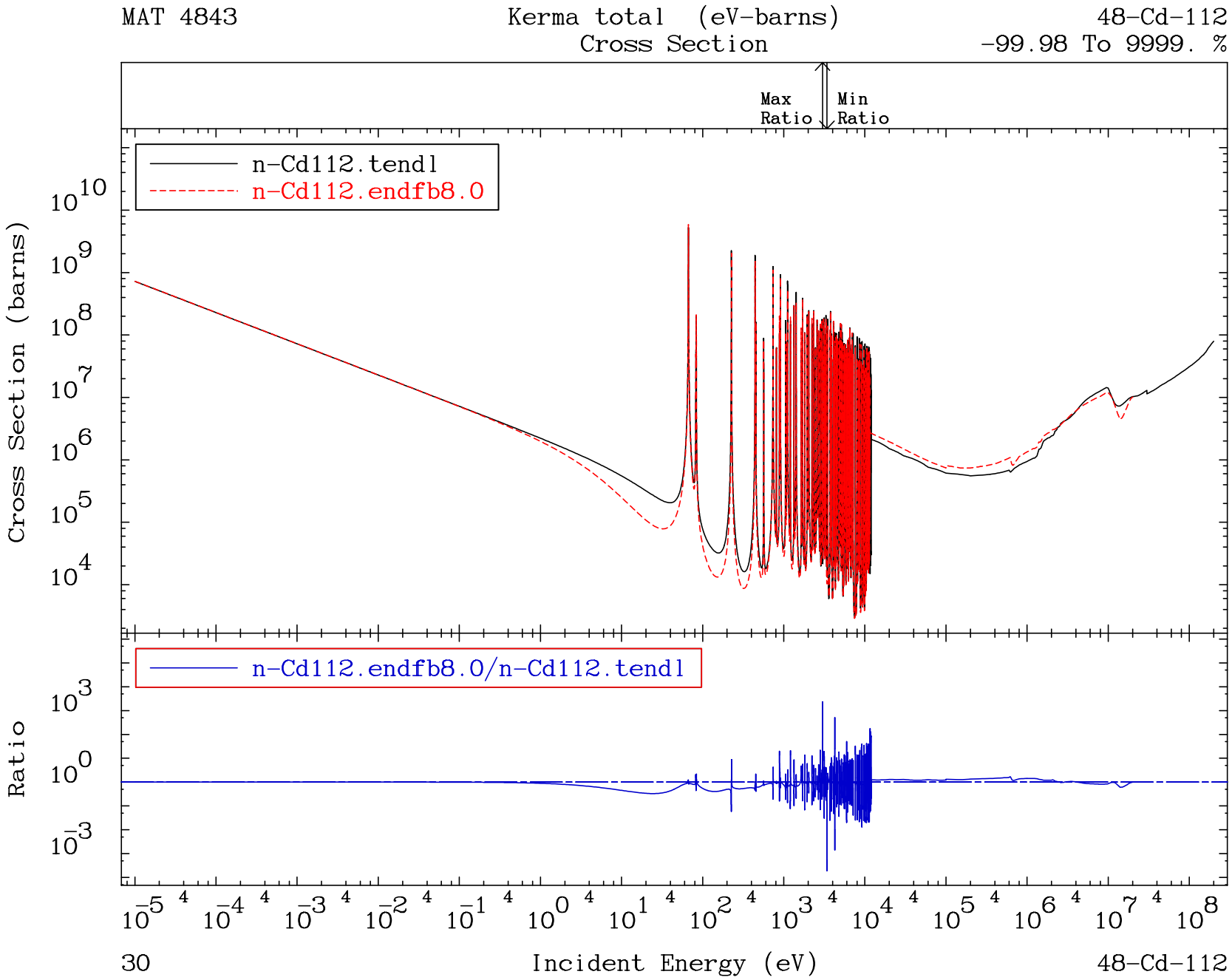

MAT 4843
Hydrogen Production
Cross Section
48-Cd-112
-13.06 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 3.2377 MeV
n-Cd112.endfb8.0 Threshold 3.2046 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
48-Cd-112

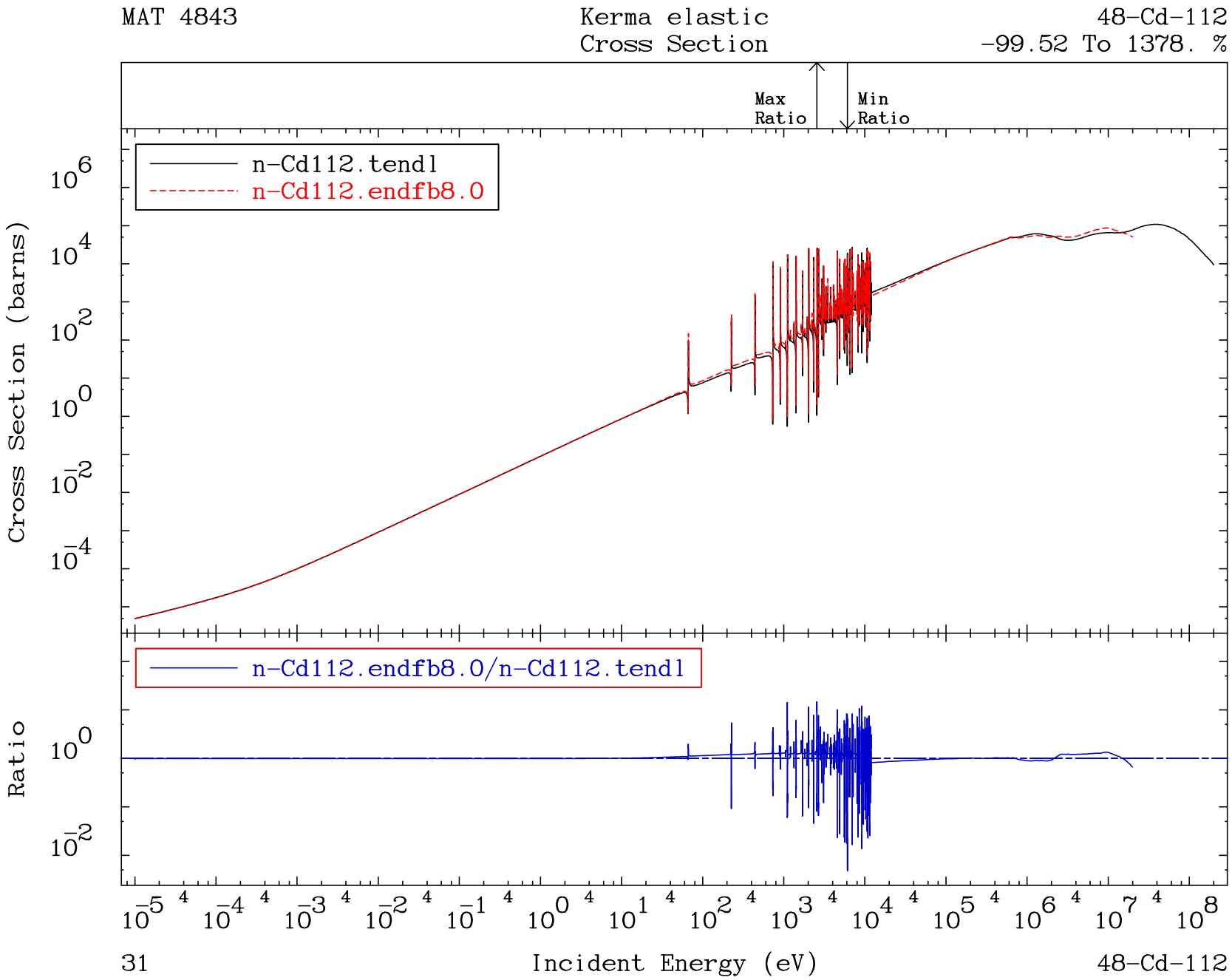

MAT 4843
Deuterium Production
Cross Section
48-Cd-112
-12.14 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 7.4907 MeV
n-Cd112.endfb8.0 Threshold 7.4837 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
48-Cd-112

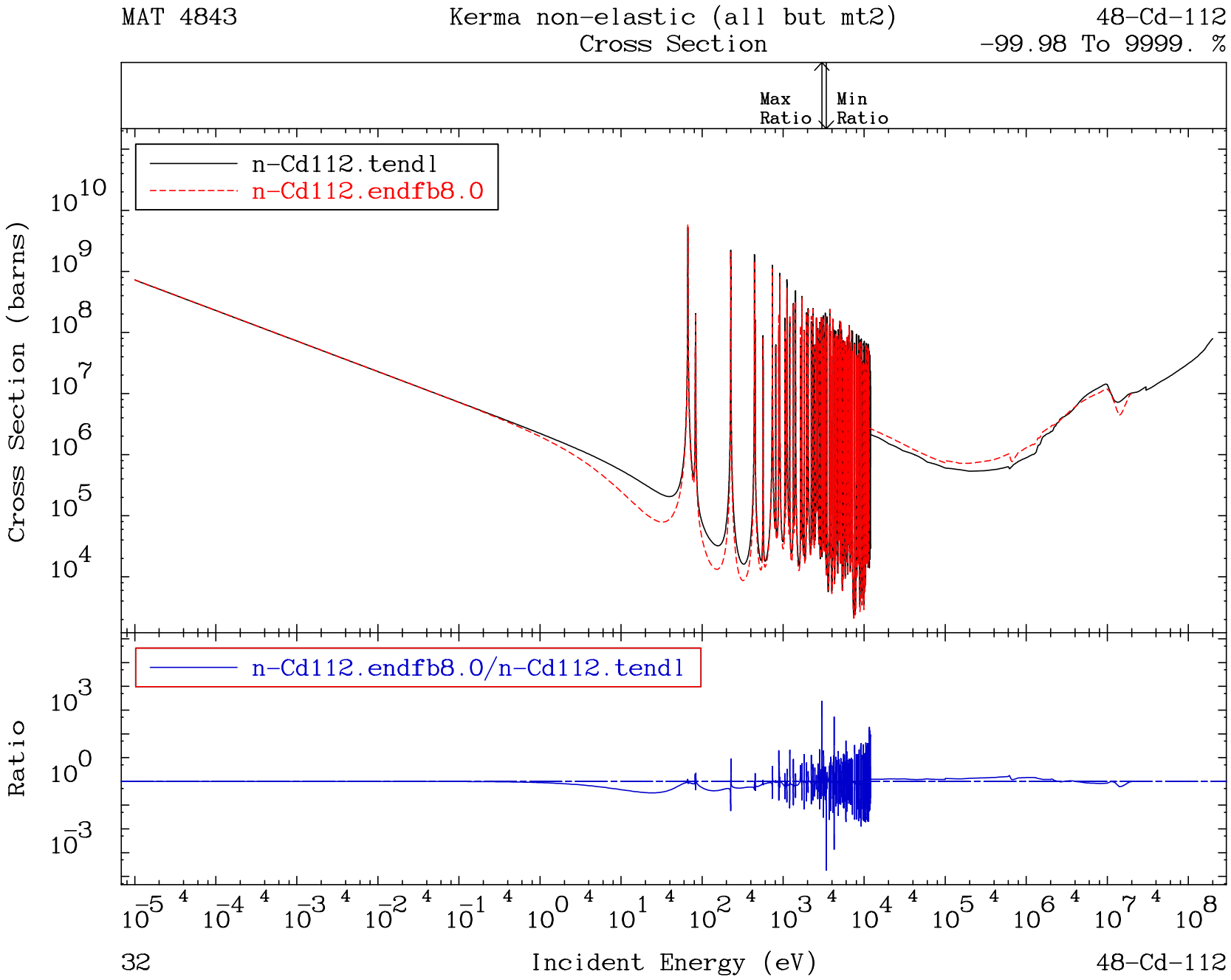

MAT 4843
Tritium Production
Cross Section
48-Cd-112
-74.61 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 10.086 MeV
n-Cd112.endfb8.0 Threshold 10.093 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^2
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
27
Incident Energy (eV)
48-Cd-112

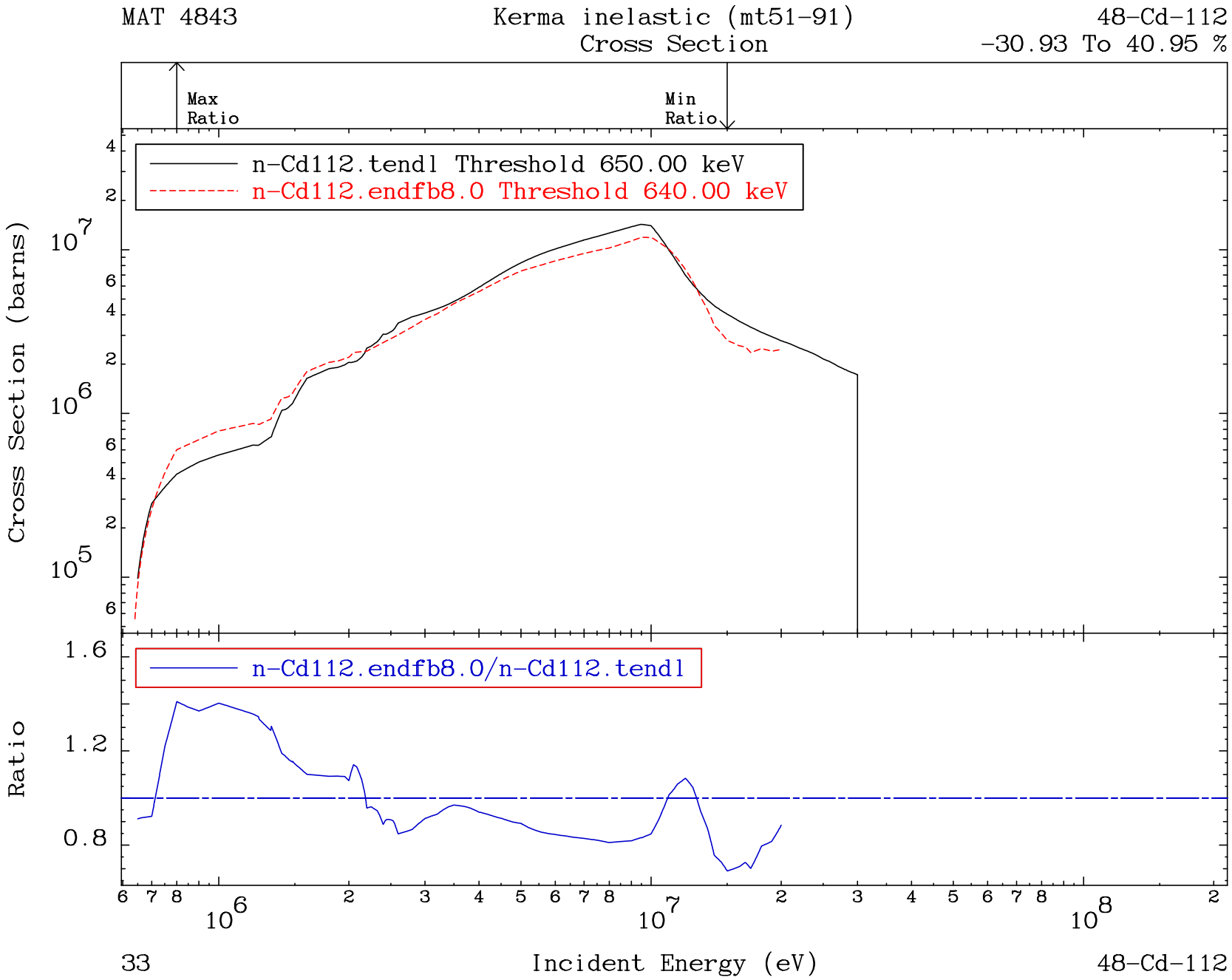

MAT 4843
He-3 Production
Cross Section
48-Cd-112
587.6 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 9.1859 MeV
n-Cd112.endfb8.0 Threshold 9.1859 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^4
10^2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
28
Incident Energy (eV)
48-Cd-112

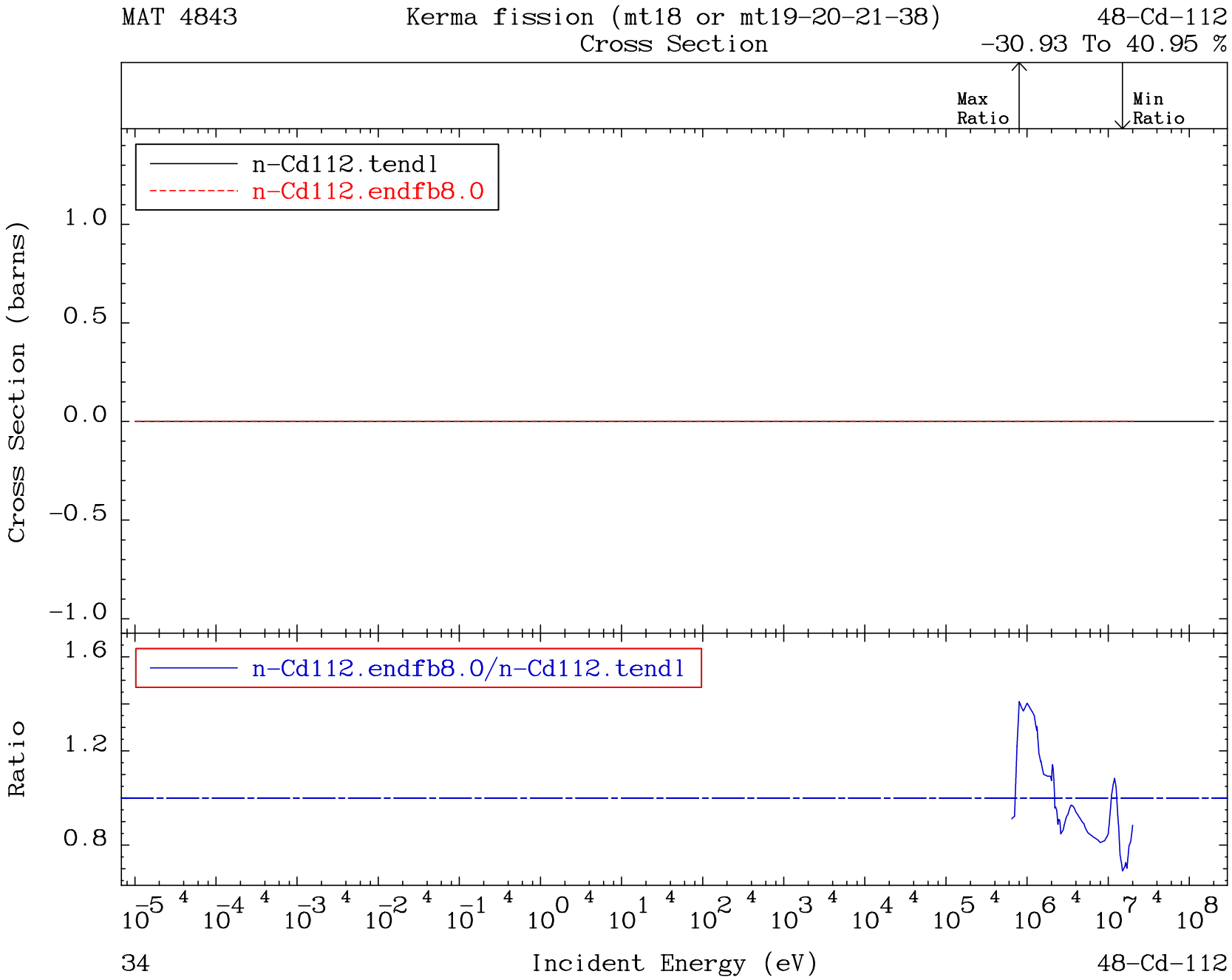

MAT 4843
He-4 Production
Cross Section
48-Cd-112
-75.47 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 11.946 keV
n-Cd112.endfb8.0 Threshold 1.8182 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
29
Incident Energy (eV)
48-Cd-112

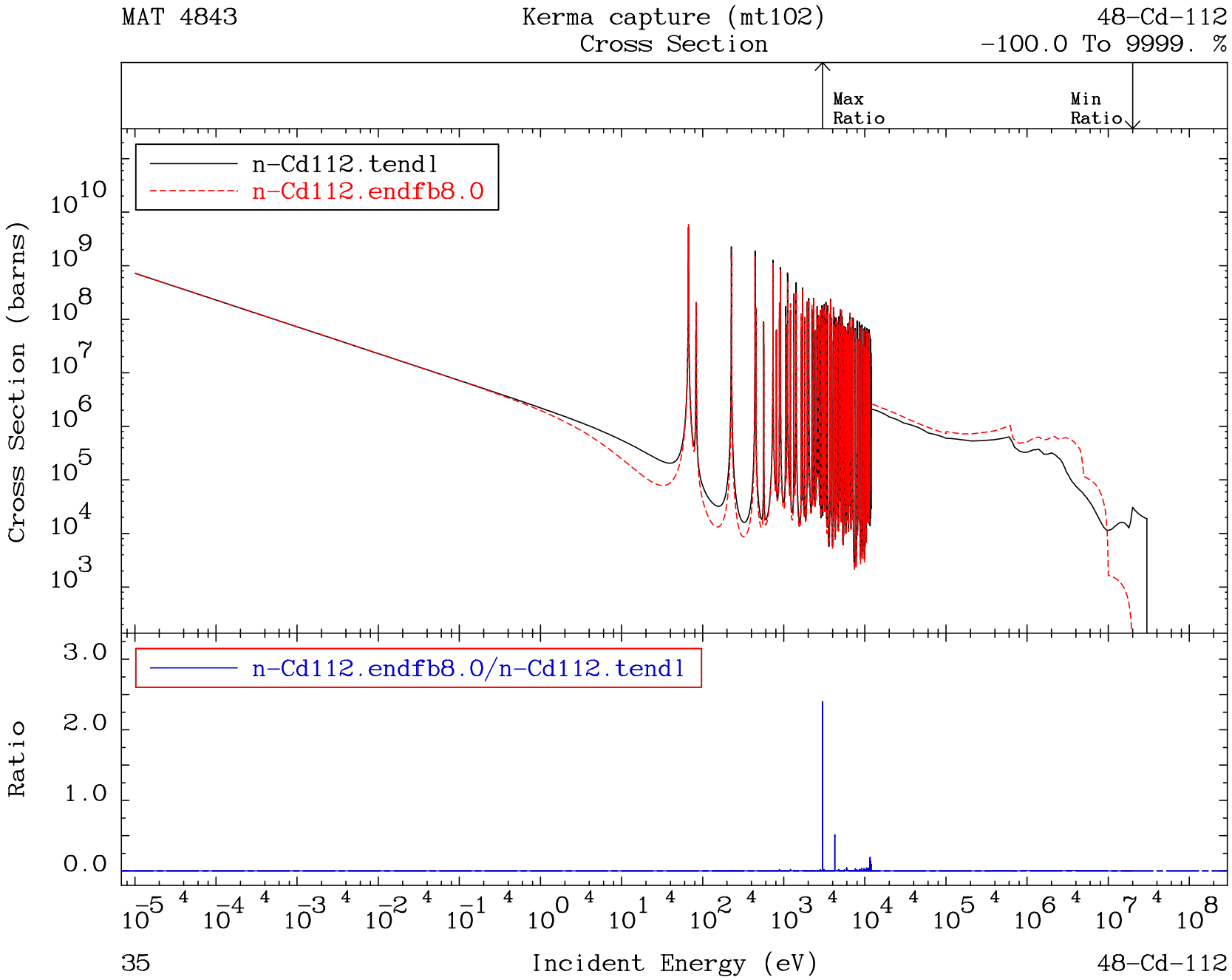

MAT 4843
Kerma total (eV-barns)
Cross Section
48-Cd-112
-99.98 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl
n-Cd112.endfb8.0
Cross Section (barns)
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
Incident Energy (eV)
30
48-Cd-112

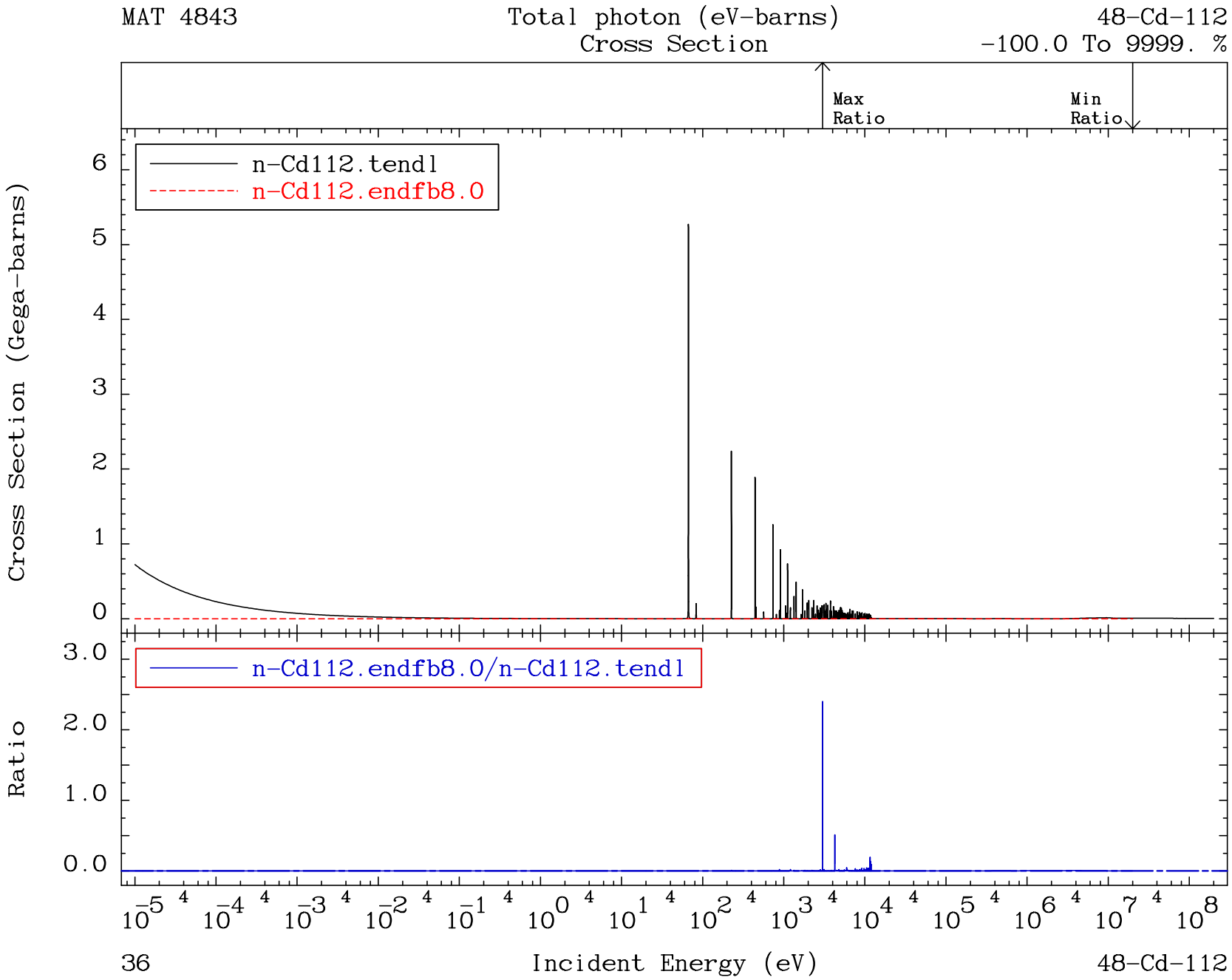

MAT 4843
Kerma elastic
Cross Section
48-Cd-112
-99.52 To 1378. %
Max
Ratio
Min
Ratio
n-Cd112.tendl
n-Cd112.endfb8.0
Cross Section (barns)
Ratio
n-Cd112.endfb8.0/n-Cd112.tendl
Incident Energy (eV)
31
48-Cd-112

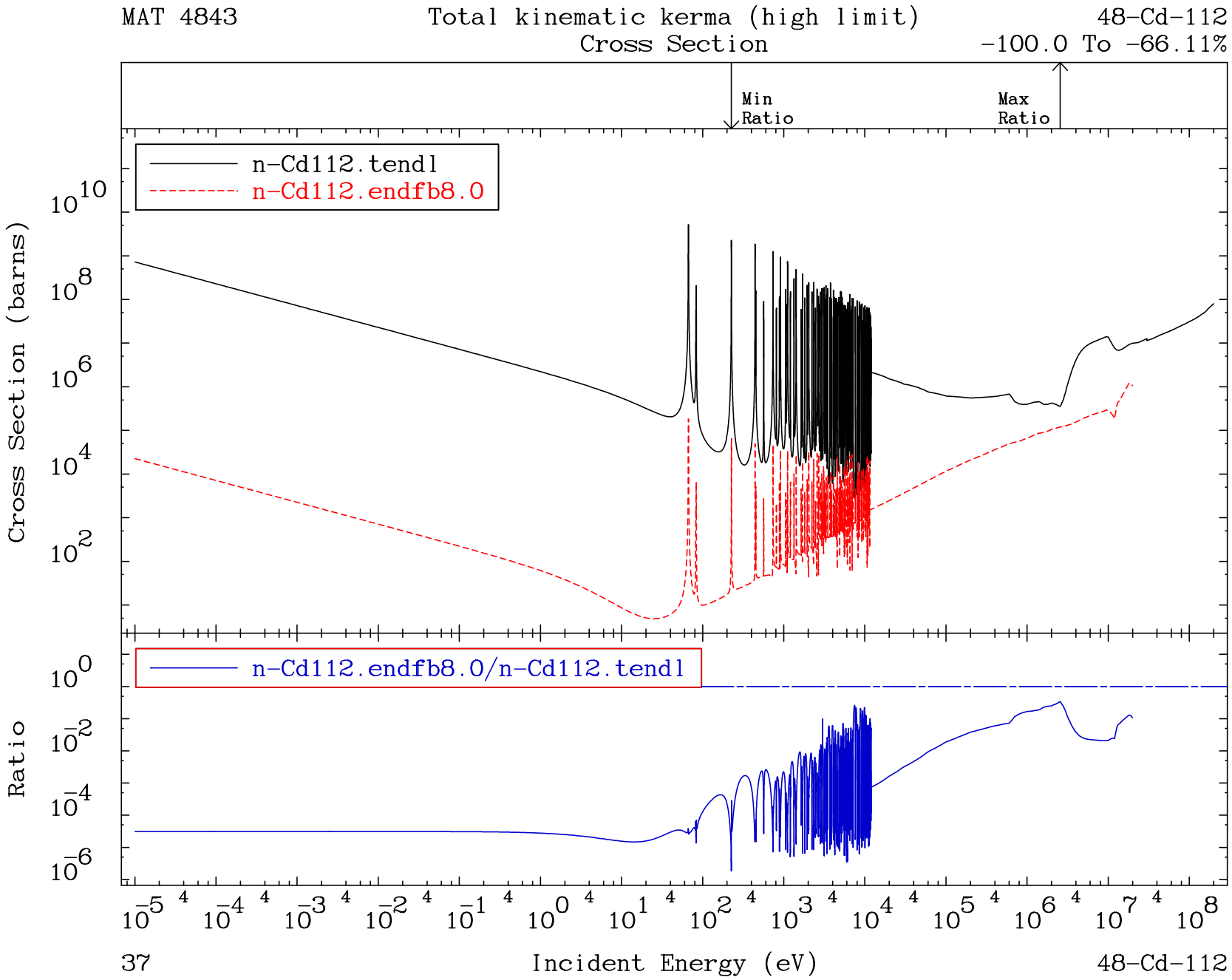

MAT 4843
Kerma non-elastic (all but mt2)
Cross Section
48-Cd-112
-99.98 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl
n-Cd112.endfb8.0
Cross Section (barns)
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
Incident Energy (eV)
32
48-Cd-112

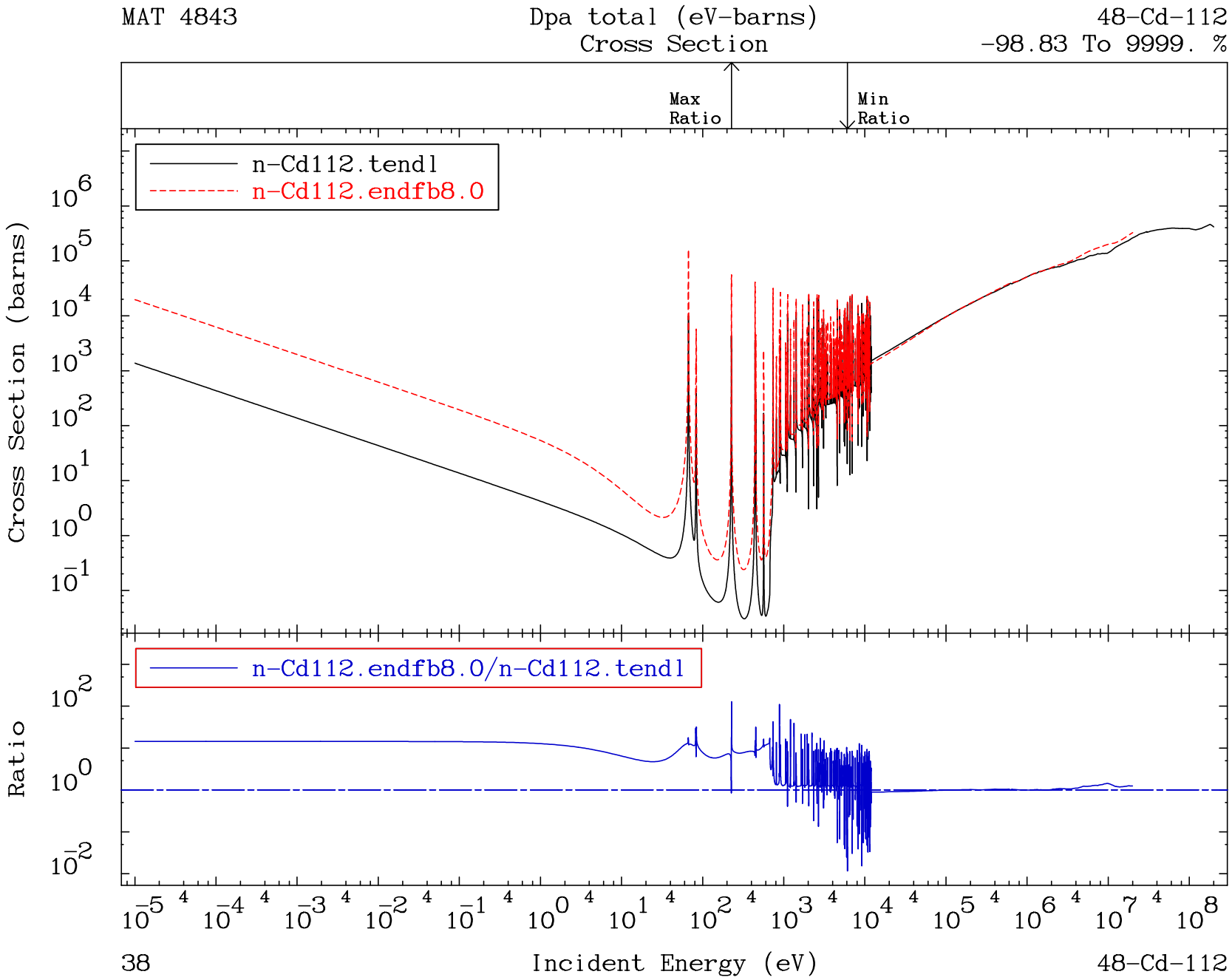

MAT 4843
Kerma inelastic (mt51-91)
Cross Section
48-Cd-112
-30.93 To 40.95 %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 650.00 keV
n-Cd112.endfb8.0 Threshold 640.00 keV
Cross Section (barns)
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
Incident Energy (eV)
33
48-Cd-112

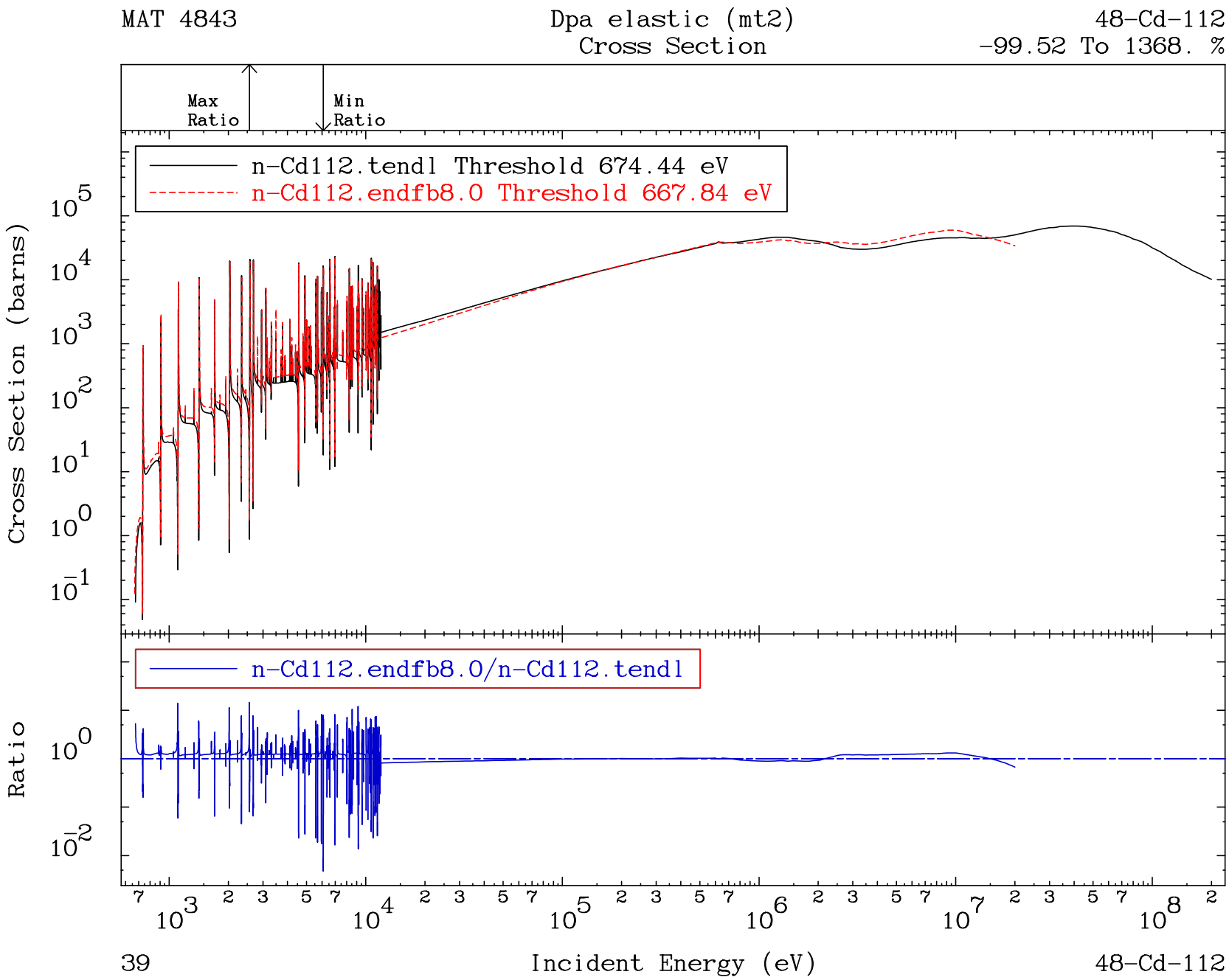

MAT 4843
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
48-Cd-112
-30.93 To 40.95 %
Max Ratio
Min Ratio
n-Cd112.tendl
n-Cd112.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
1.6
1.2
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
34
Incident Energy (eV)
48-Cd-112

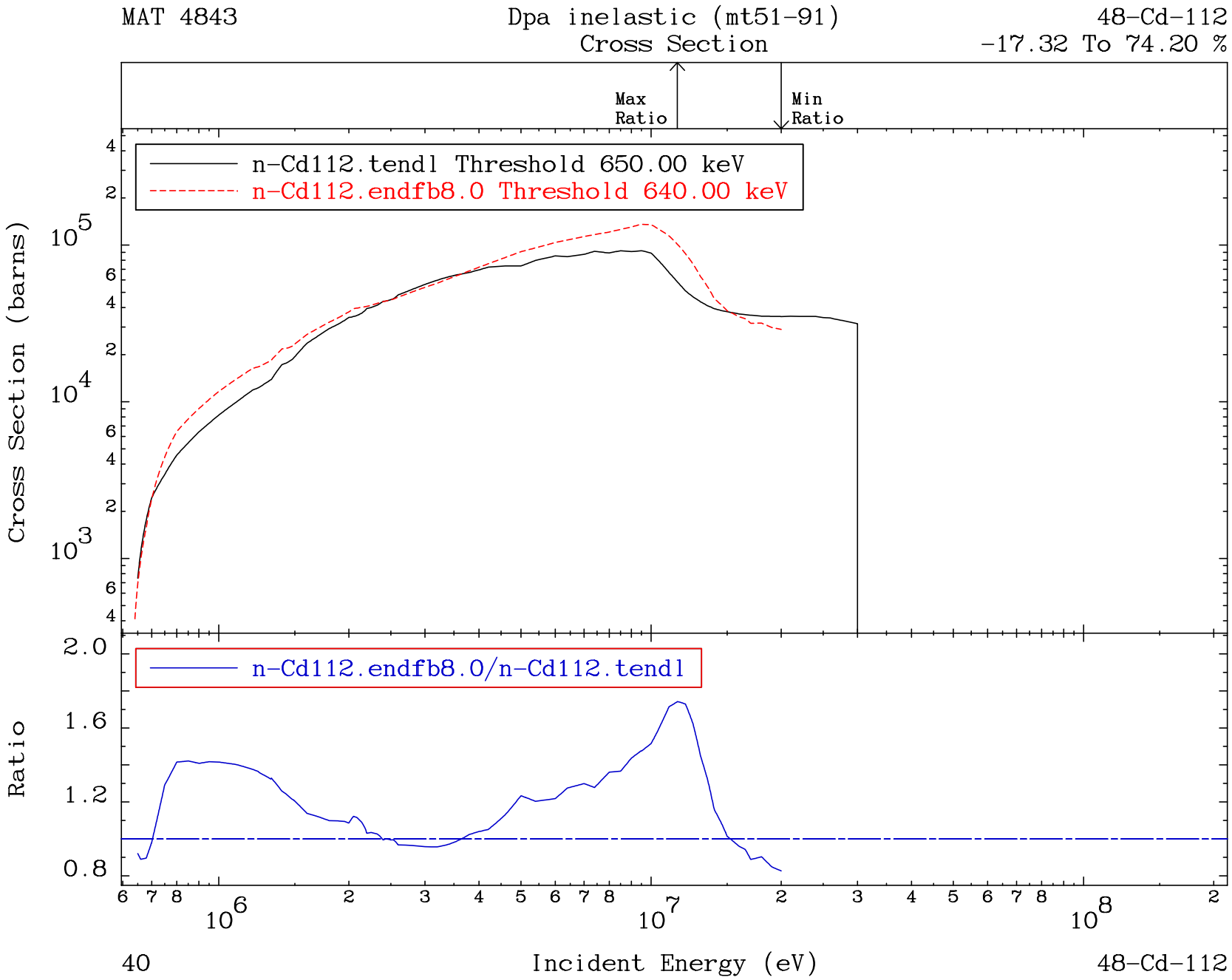

MAT 4843
Kerma capture (mt102)
Cross Section
48-Cd-112
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl
n-Cd112.endfb8.0
Cross Section (barns)
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
Incident Energy (eV)
35
48-Cd-112

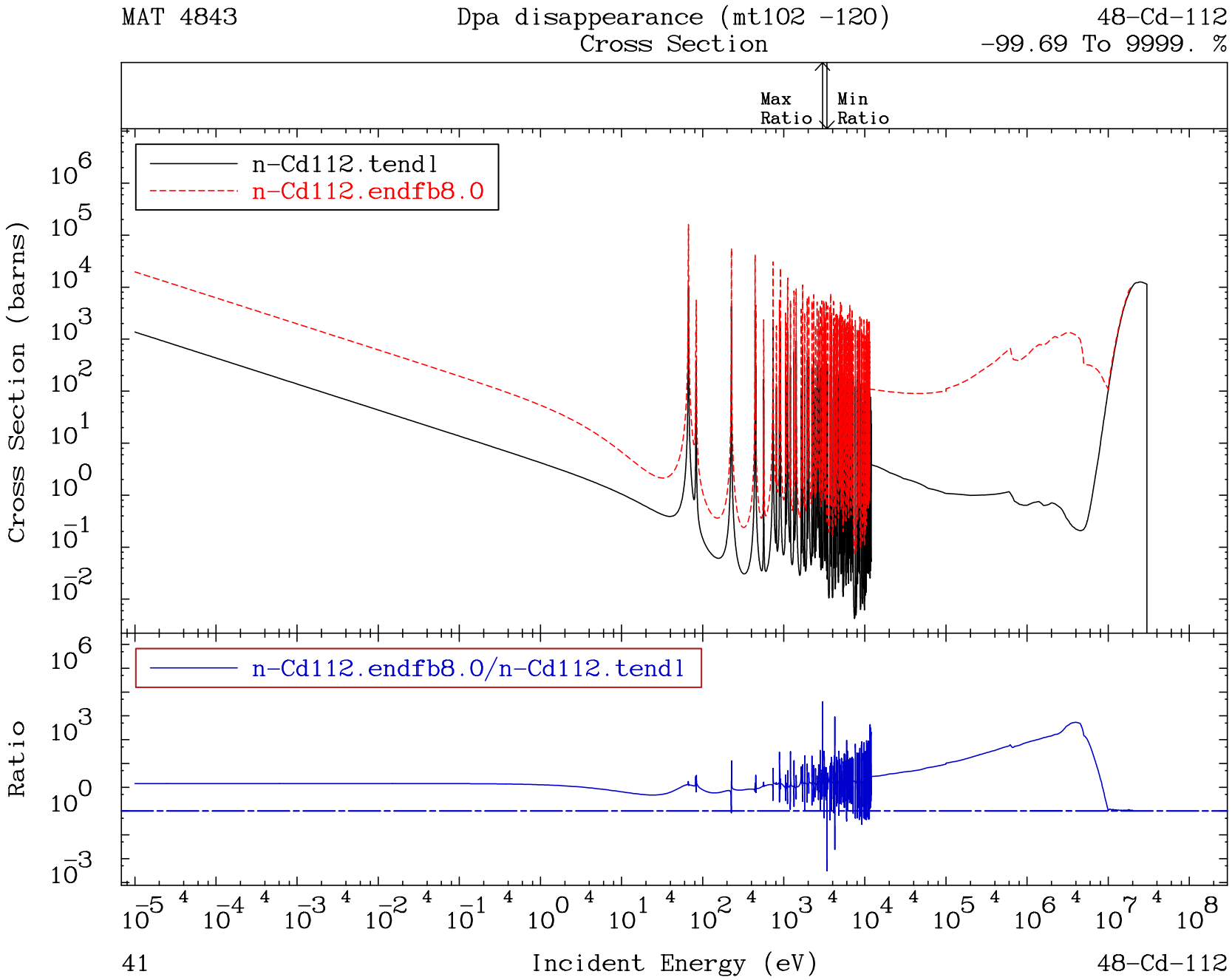

MAT 4843
Total photon (eV-barns)
Cross Section
48-Cd-112
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl
n-Cd112.endfb8.0
Cross Section (Giga-barns)
0
1
2
3
4
5
6
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
0.0
1.0
2.0
3.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
36
Incident Energy (eV)
48-Cd-112


MAT 4843
Total kinematic kerma (high limit)
Cross Section
48-Cd-112
-100.0 To -66.11%
Min Ratio
Max Ratio
n-Cd112.tendl
n-Cd112.endfb8.0
Cross Section (barns)
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
Incident Energy (eV)
37
48-Cd-112


MAT 4843
Dpa total (eV-barns)
Cross Section
48-Cd-112
-98.83 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl
n-Cd112.endfb8.0
Cross Section (barns)
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
38
Incident Energy (eV)
48-Cd-112


MAT 4843
Dpa elastic (mt2)
Cross Section
48-Cd-112
-99.52 To 1368. %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 674.44 eV
n-Cd112.endfb8.0 Threshold 667.84 eV
Cross Section (barns)
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
Incident Energy (eV)
39
48-Cd-112


MAT 4843
Dpa inelastic (mt51-91)
Cross Section
48-Cd-112
-17.32 To 74.20 %
Max Ratio
Min Ratio
n-Cd112.tendl Threshold 650.00 keV
n-Cd112.endfb8.0 Threshold 640.00 keV
Cross Section (barns)
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
Incident Energy (eV)
40
48-Cd-112


MAT 4843
Dpa disappearance (mt102 -120)
Cross Section
48-Cd-112
-99.69 To 9999. %
Max Ratio
Min Ratio
n-Cd112.tendl
n-Cd112.endfb8.0
Cross Section (barns)
n-Cd112.endfb8.0/n-Cd112.tendl
Ratio
41
Incident Energy (eV)
48-Cd-112