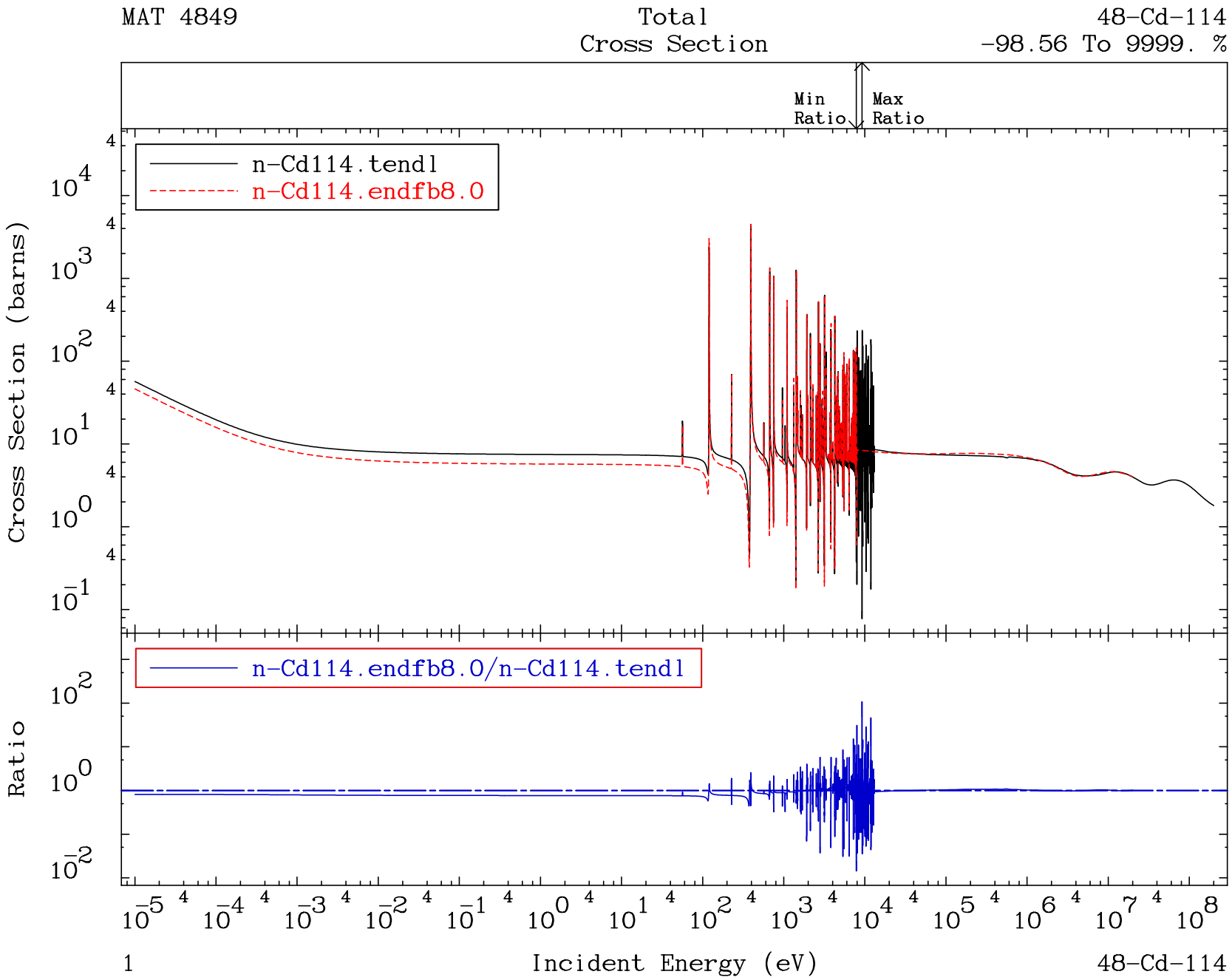
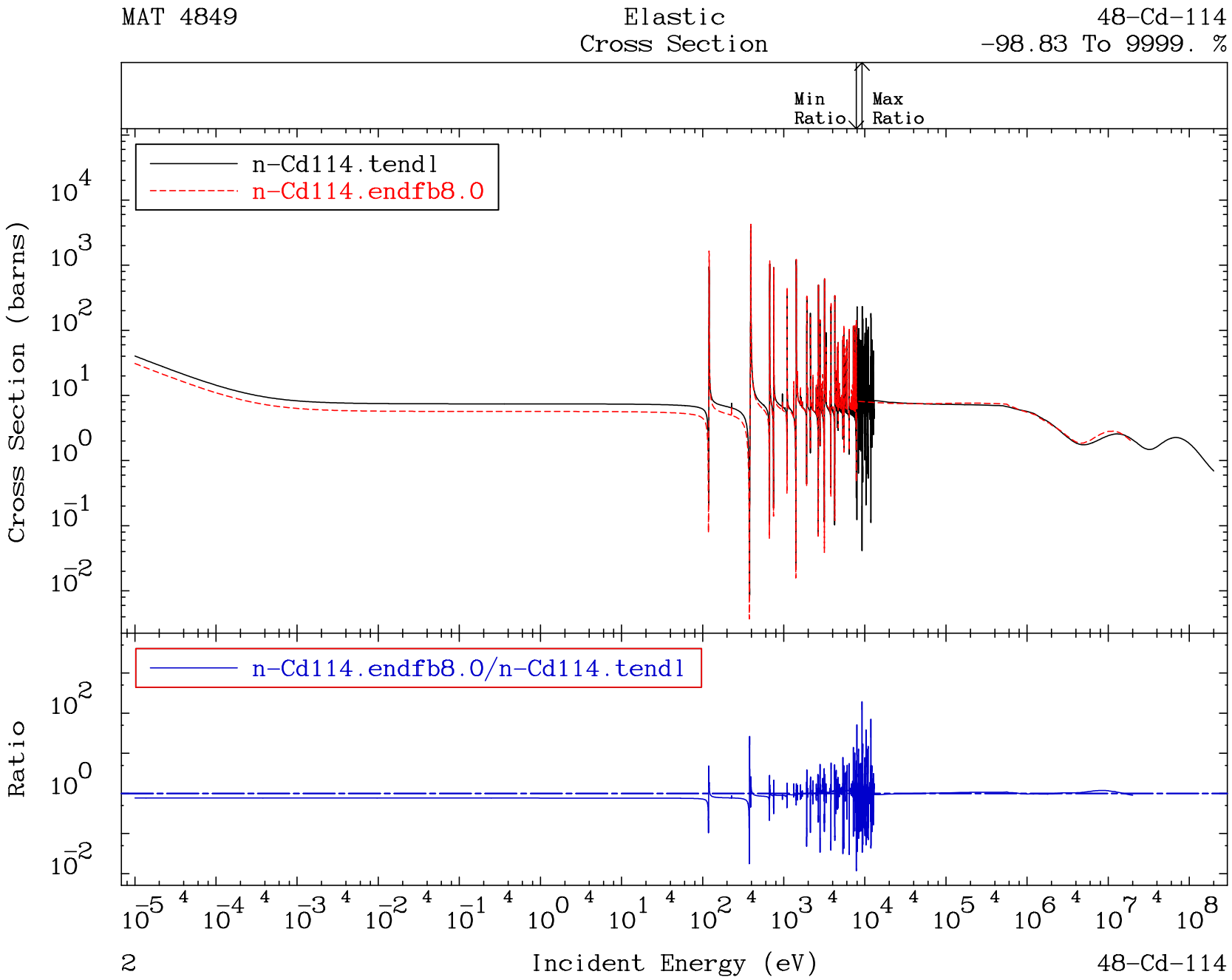
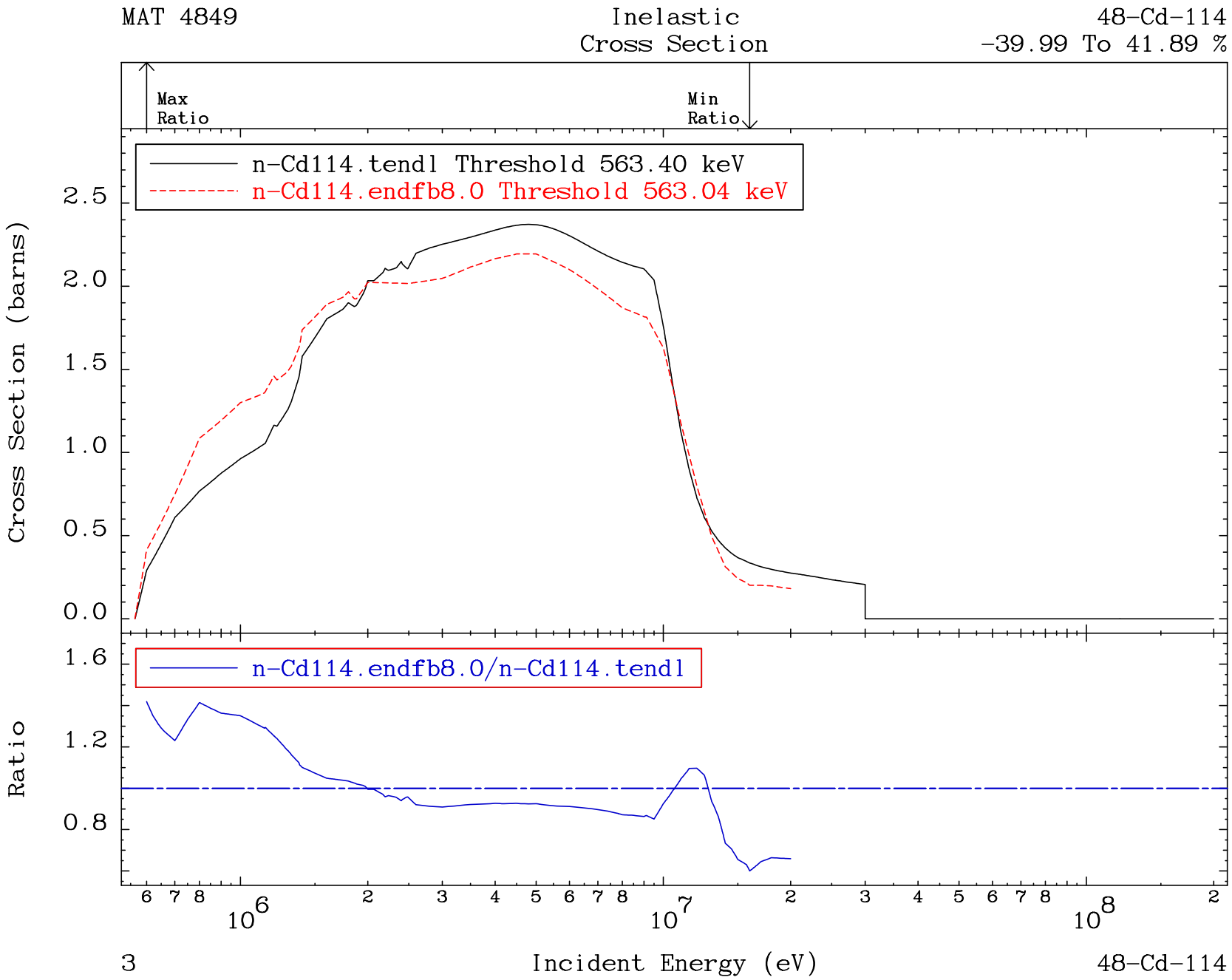
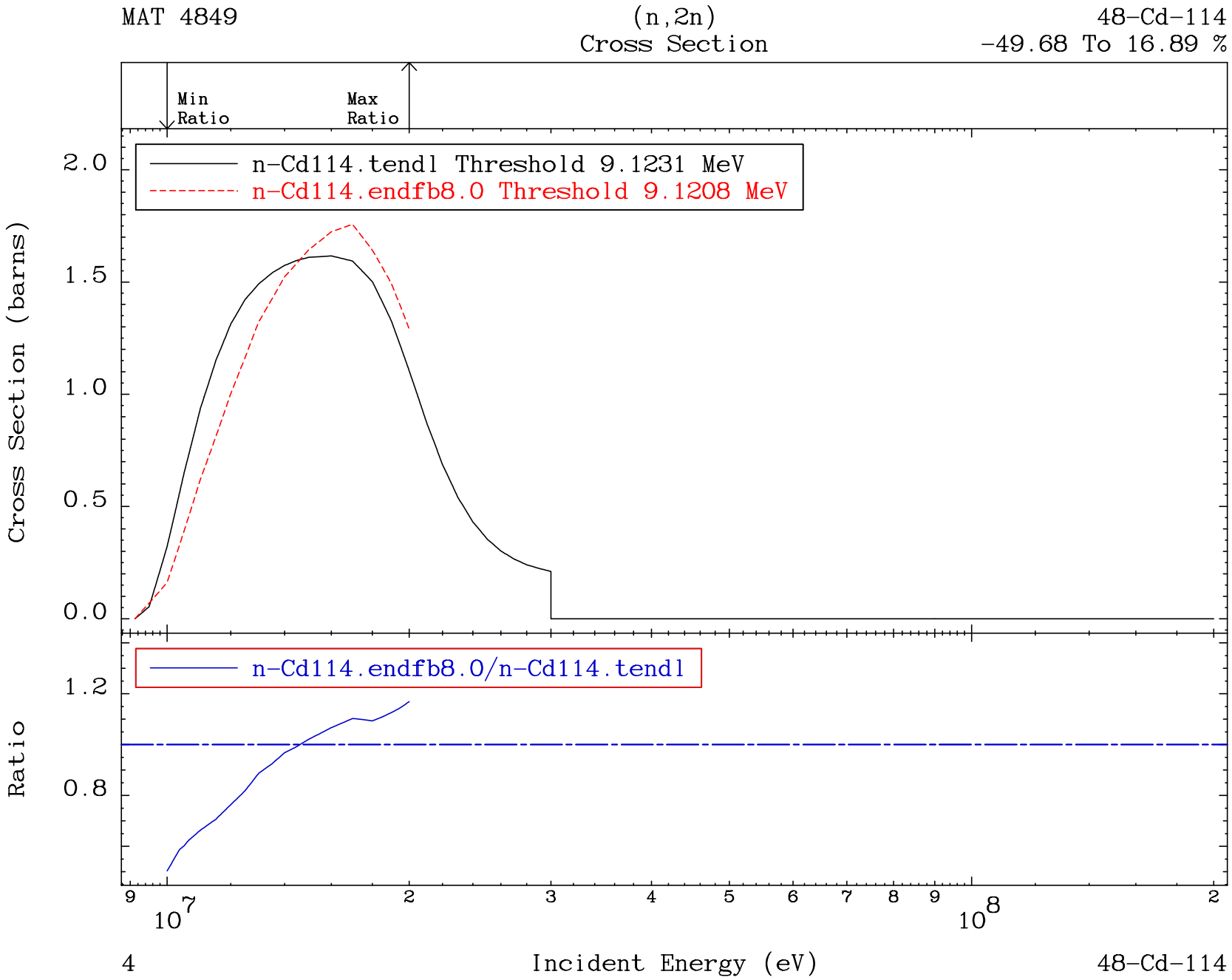
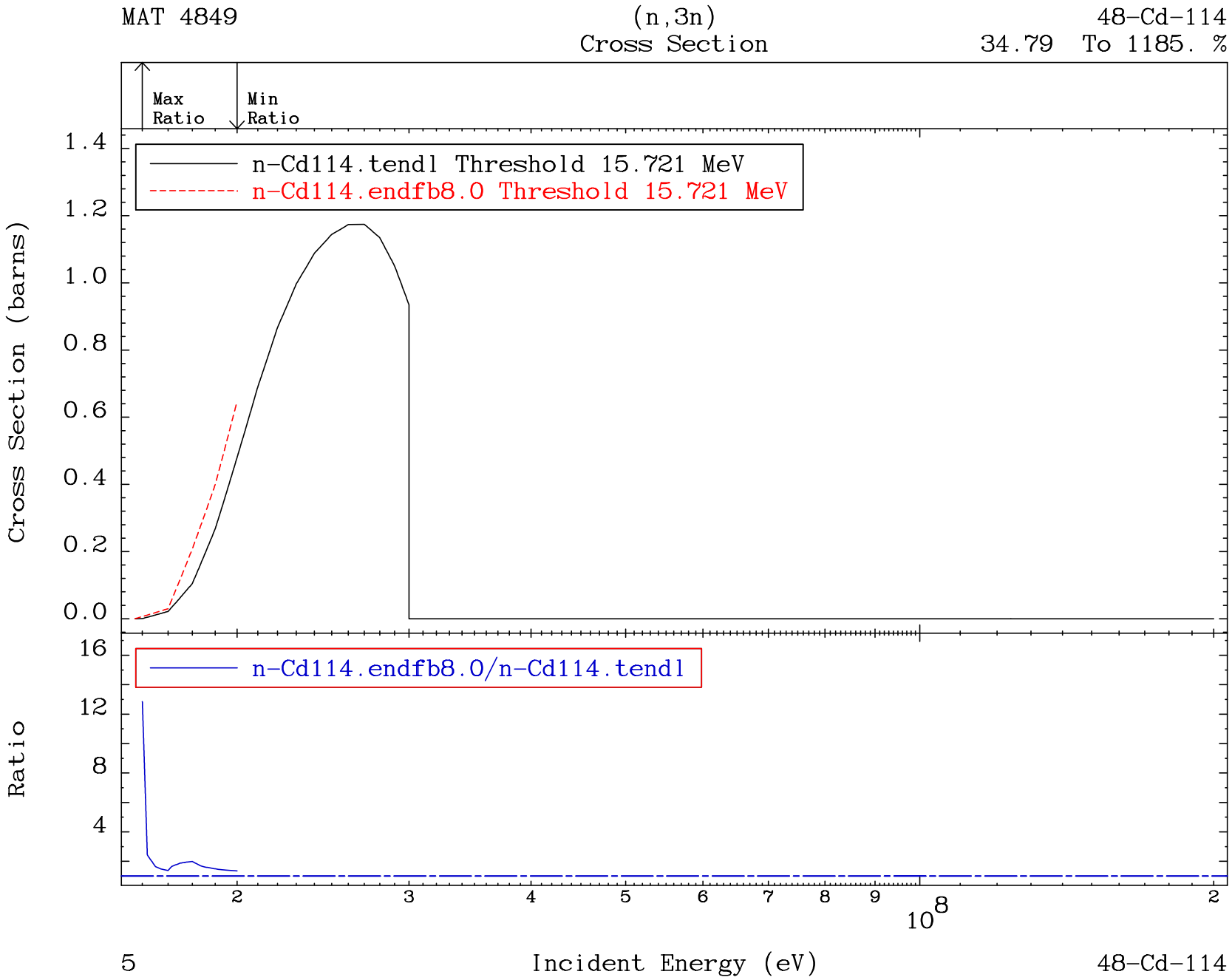
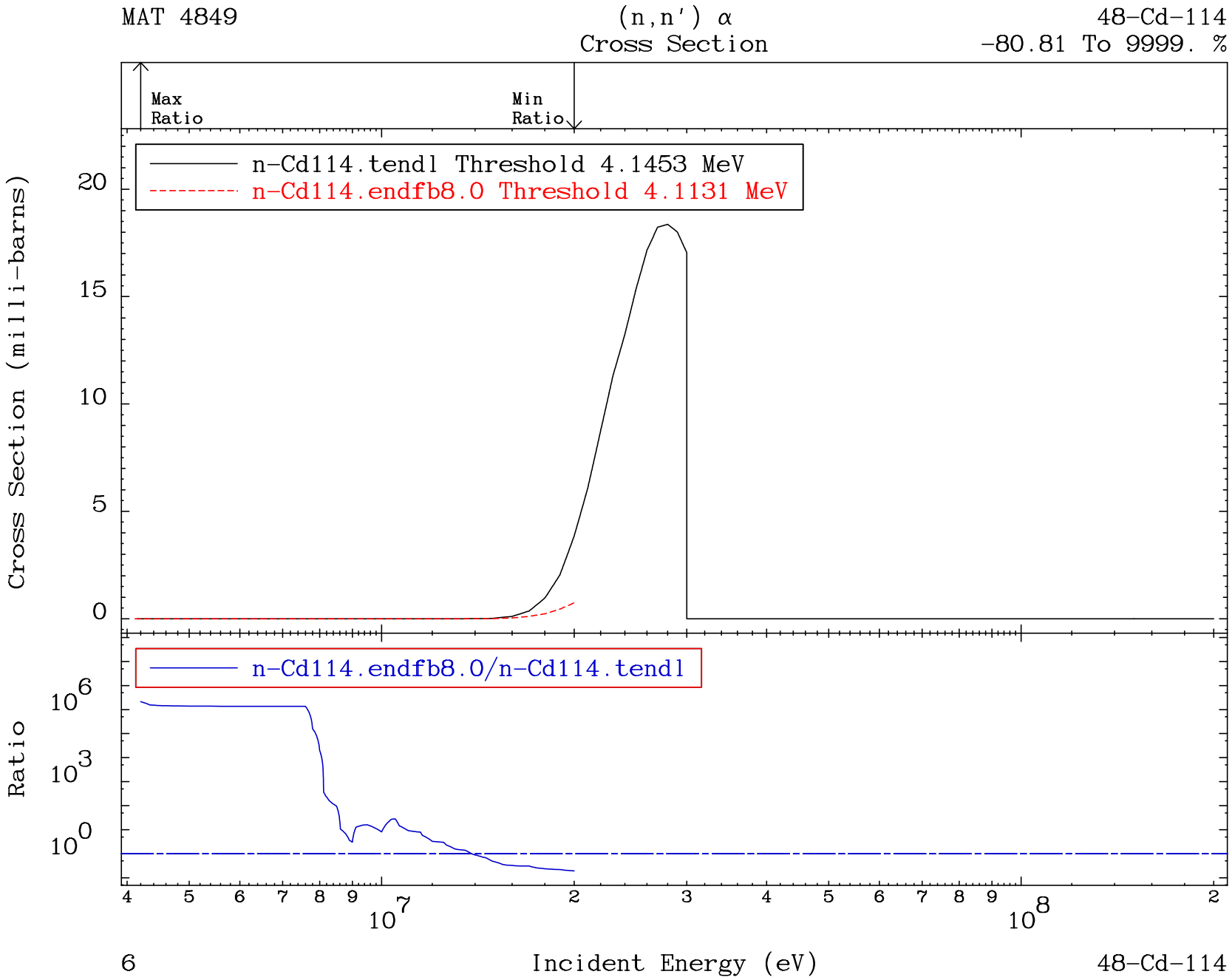

MAT 4849
Total
Cross Section
48-Cd-114
-98.56 To 9999. %
Min
Ratio
Max
Ratio
n-Cd114.tendl
n-Cd114.endfb8.0
Cross Section (barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
Incident Energy (eV)
1
48-Cd-114

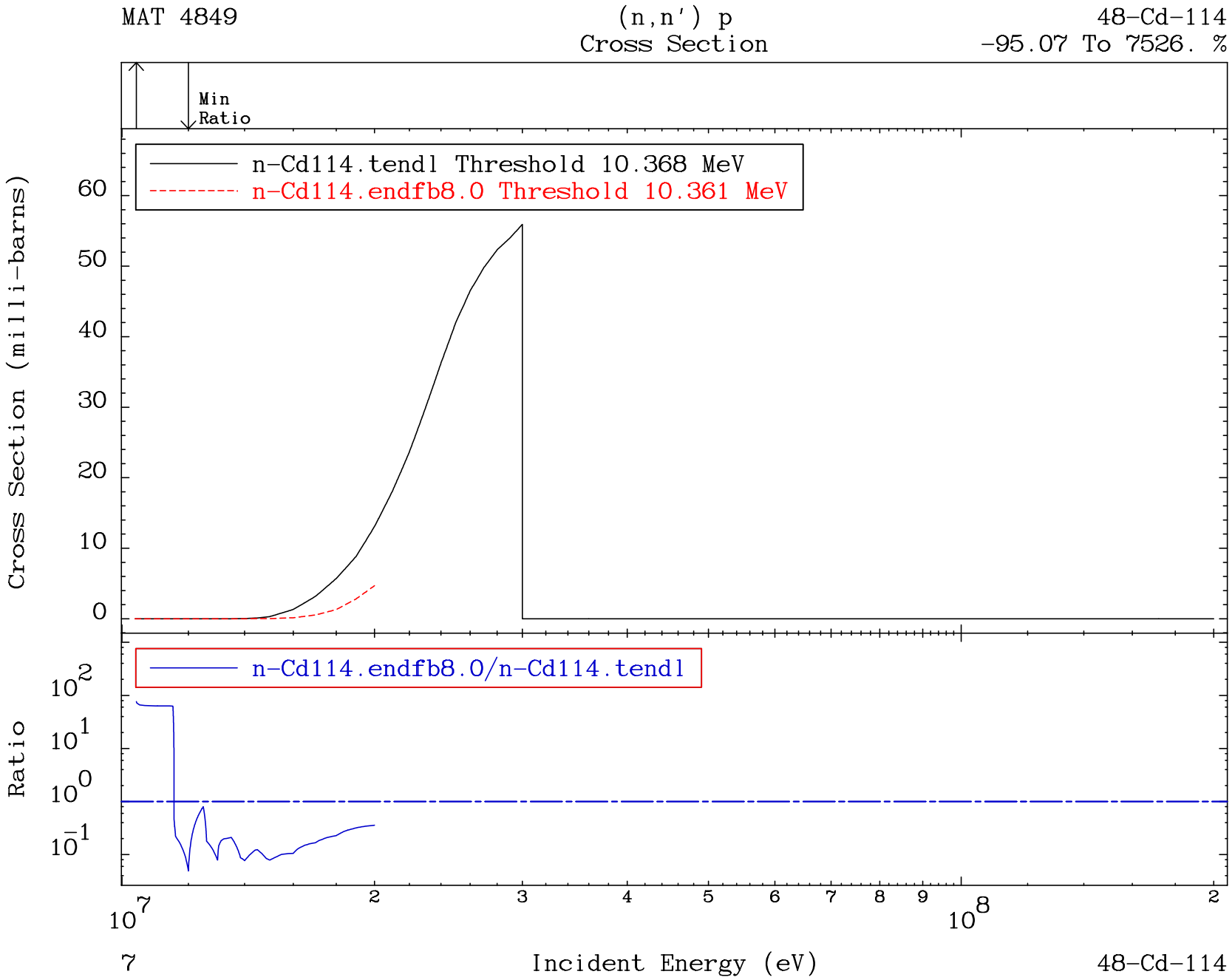

MAT 4849
Elastic
Cross Section
48-Cd-114
-98.83 To 9999. %
Min Ratio
Max Ratio
n-Cd114.tendl
n-Cd114.endfb8.0
Cross Section (barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
Incident Energy (eV)
2
48-Cd-114

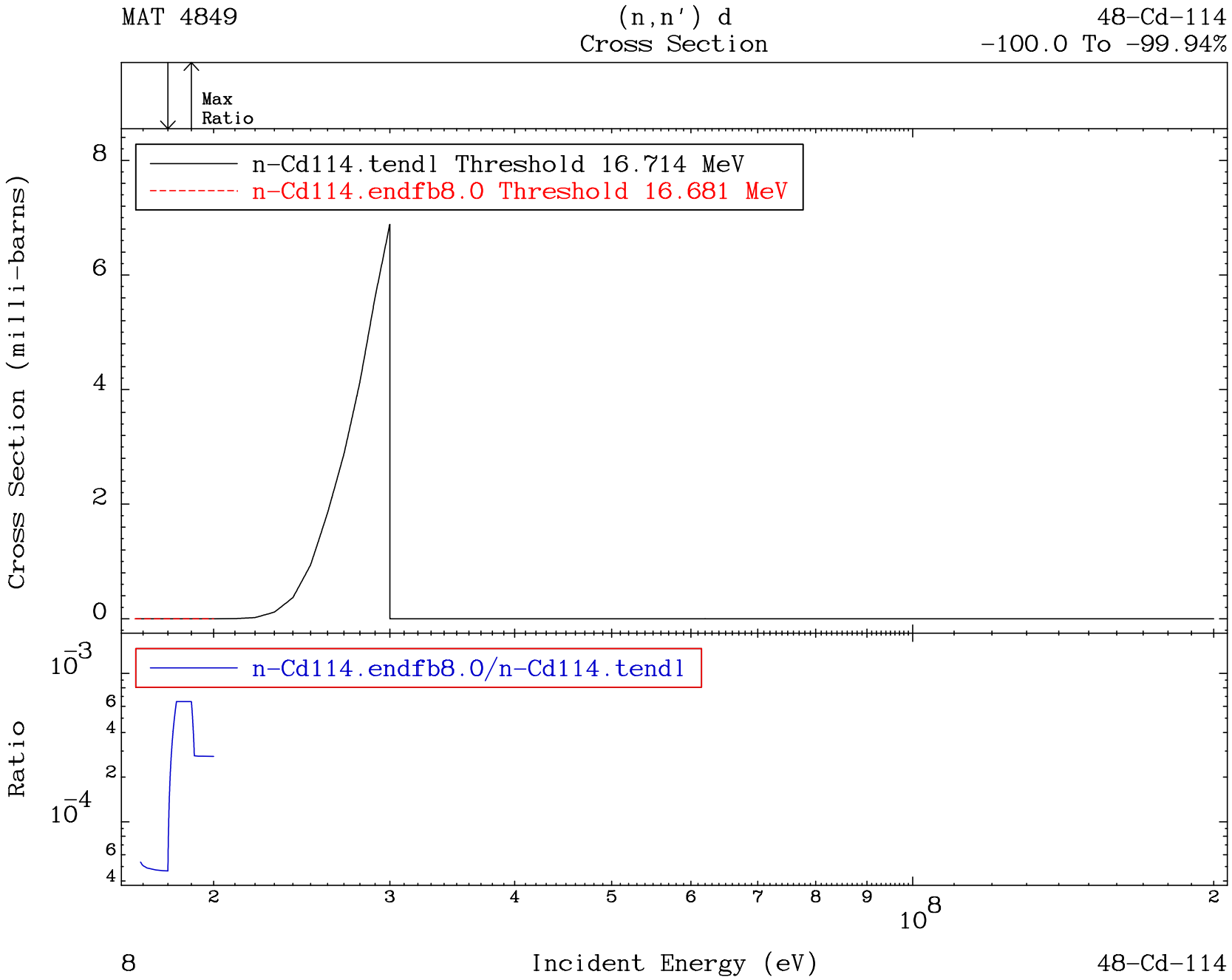

MAT 4849
Inelastic
Cross Section
48-Cd-114
-39.99 To 41.89 %
Max
Ratio
Min
Ratio
n-Cd114.tendl Threshold 563.40 keV
n-Cd114.endfb8.0 Threshold 563.04 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
1.6
1.2
0.8
6 7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
48-Cd-114

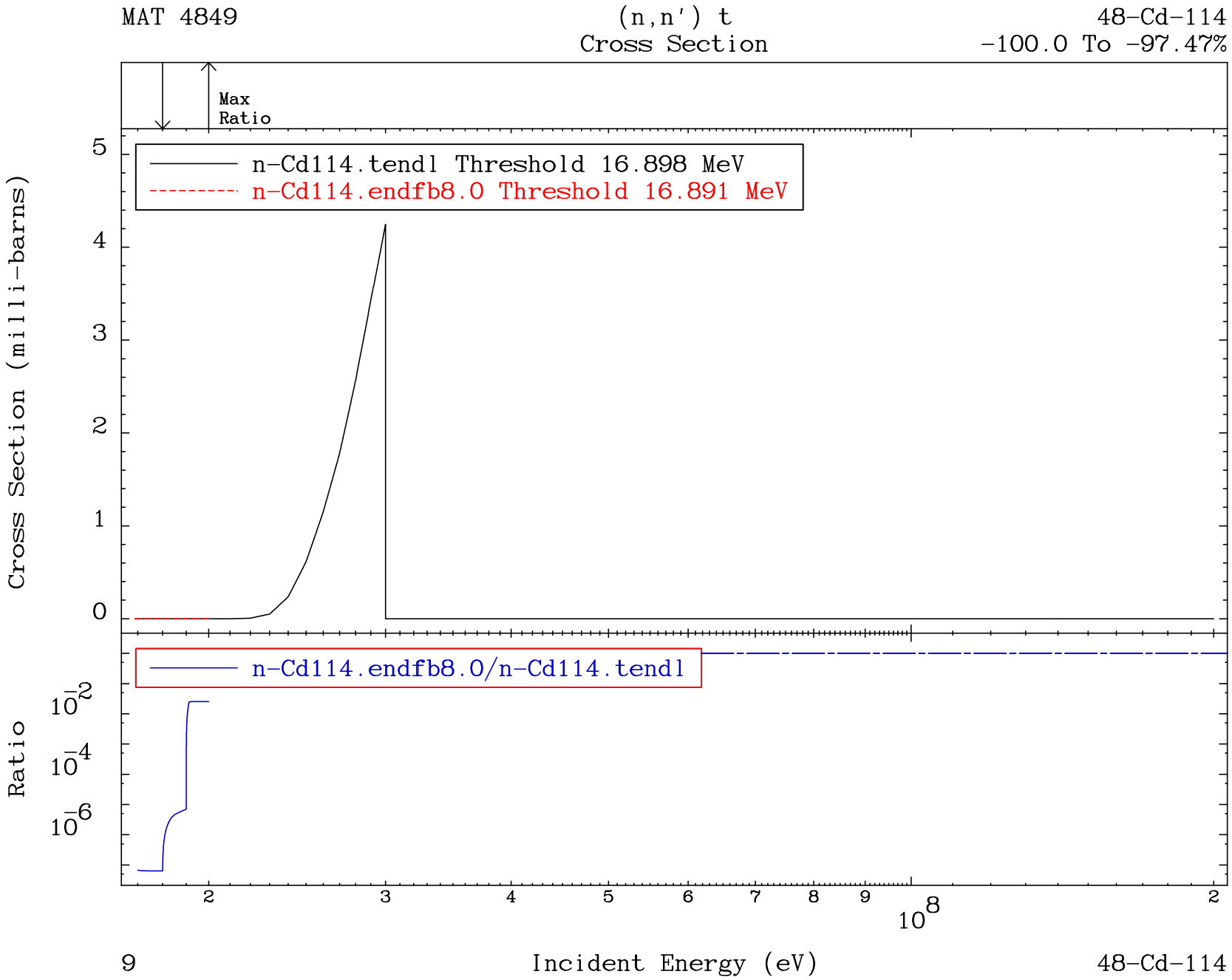

MAT 4849
(n,2n)
Cross Section
48-Cd-114
-49.68 To 16.89 %
Min Ratio
Max Ratio
n-Cd114.tendl Threshold 9.1231 MeV
n-Cd114.endfb8.0 Threshold 9.1208 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
1.2
0.8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
48-Cd-114

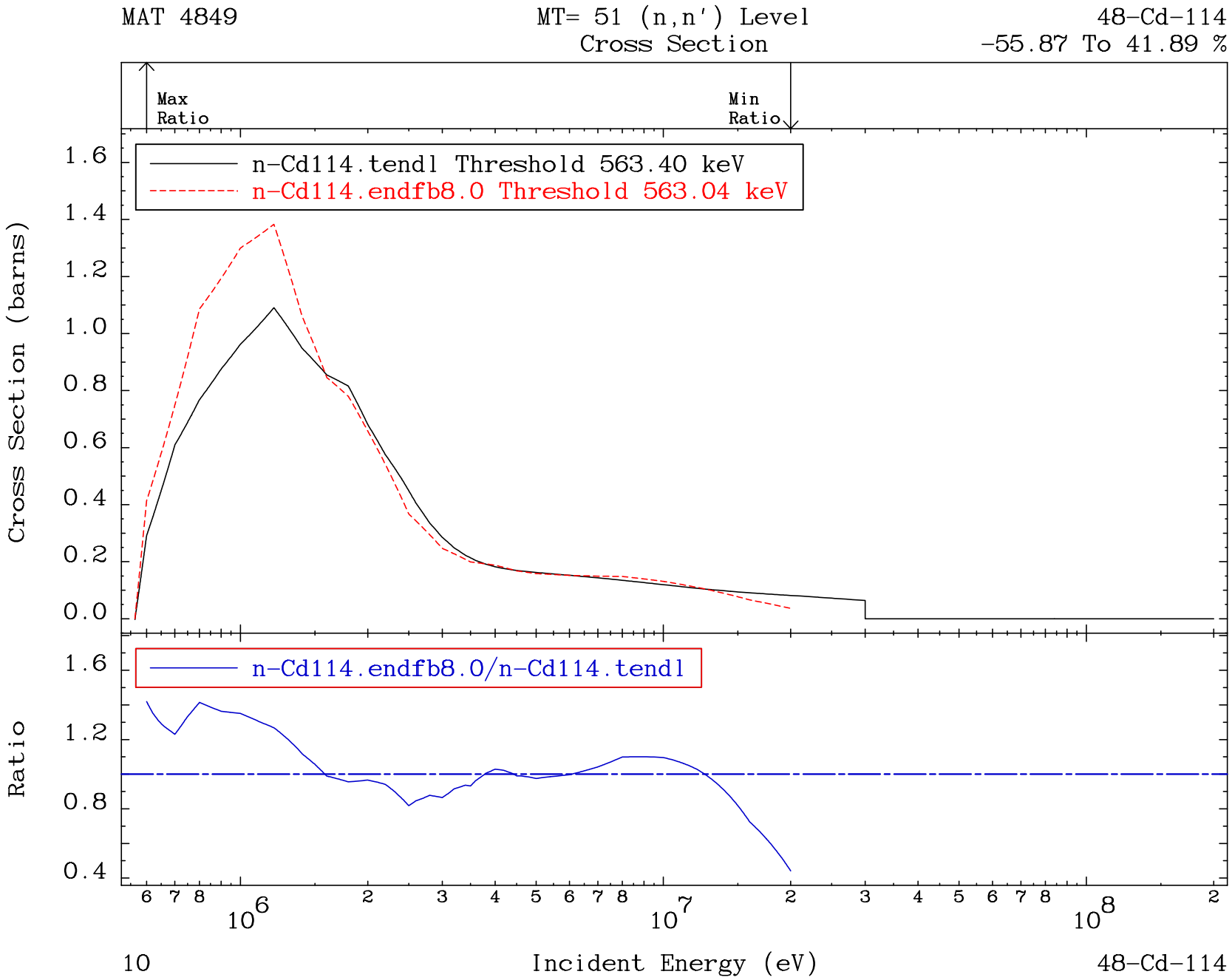

MAT 4849
(n,3n)
Cross Section
48-Cd-114
34.79 To 1185. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 15.721 MeV
n-Cd114.endfb8.0 Threshold 15.721 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
16
12
8
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
48-Cd-114

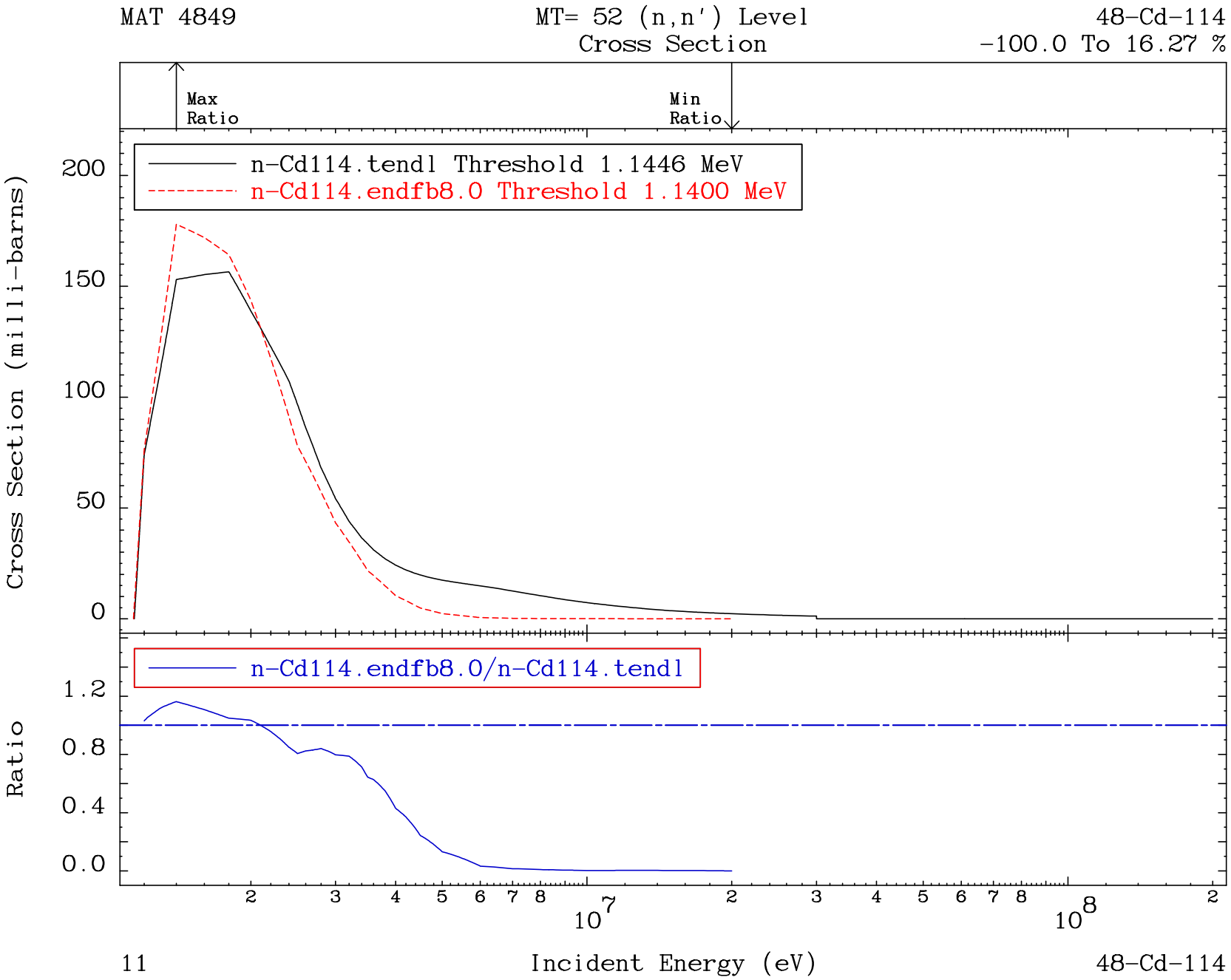

MAT 4849
(n,n') α
Cross Section
48-Cd-114
-80.81 To 9999. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 4.1453 MeV
n-Cd114.endfb8.0 Threshold 4.1131 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^6
10^3
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
48-Cd-114

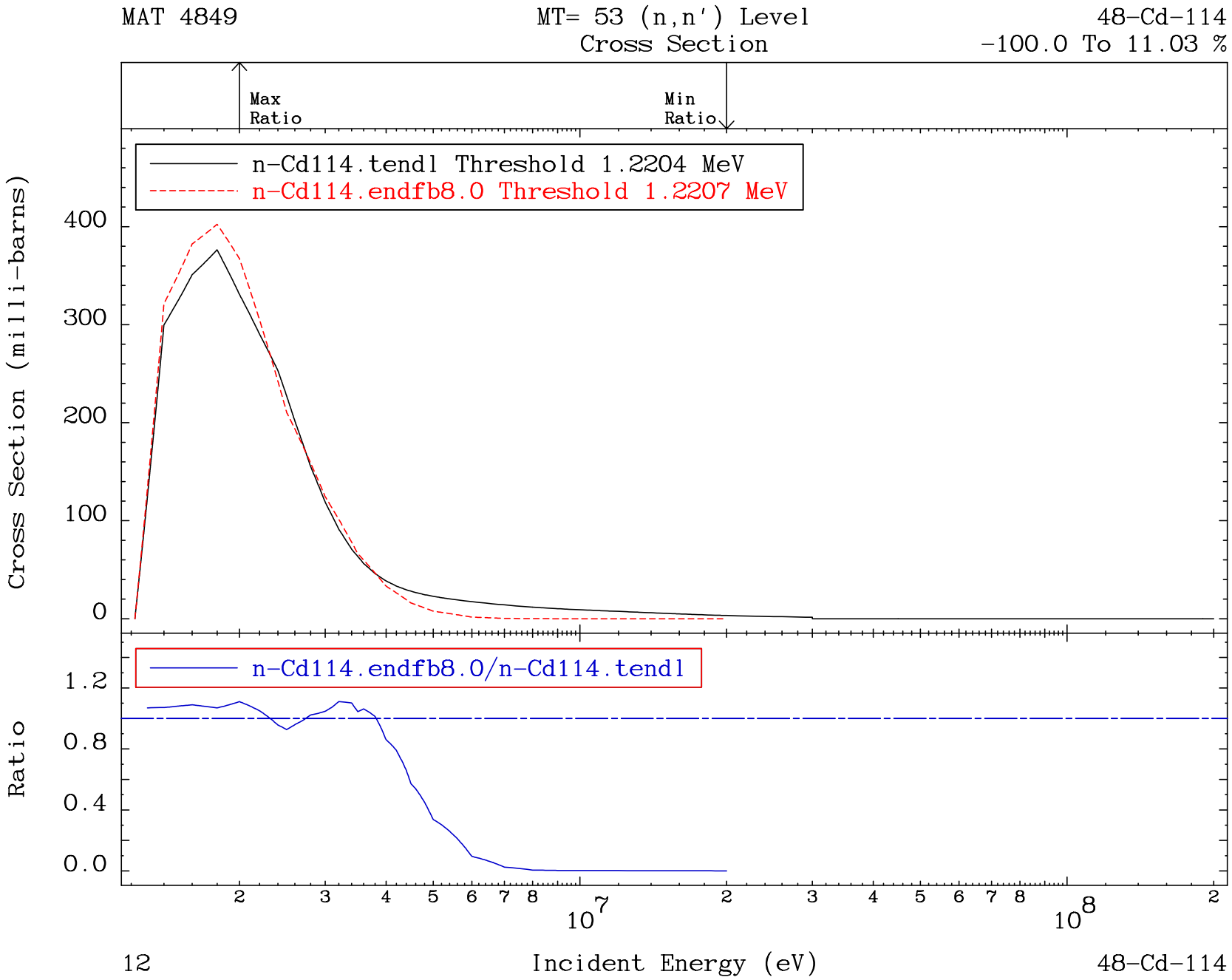

MAT 4849
(n,n') p
Cross Section
48-Cd-114
-95.07 To 7526. %
Min
Ratio
n-Cd114.tendl Threshold 10.368 MeV
n-Cd114.endfb8.0 Threshold 10.361 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^2
10^1
10^0
10^-1
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
48-Cd-114

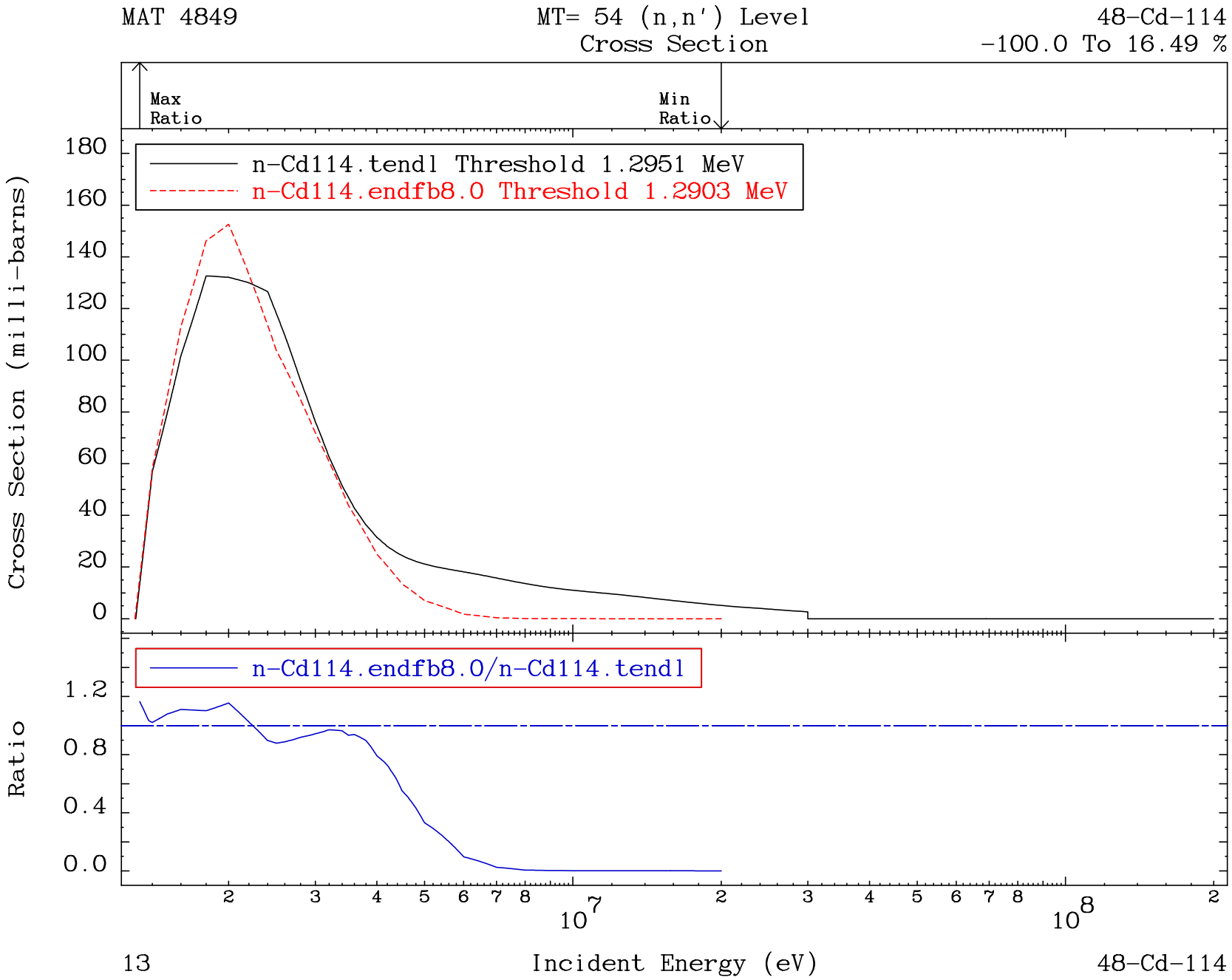

MAT 4849
(n,n') d
Cross Section
48-Cd-114
-100.0 To -99.94%
Max
Ratio
n-Cd114.tendl Threshold 16.714 MeV
n-Cd114.endfb8.0 Threshold 16.681 MeV
Cross Section (milli-barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
Incident Energy (eV)
8
48-Cd-114

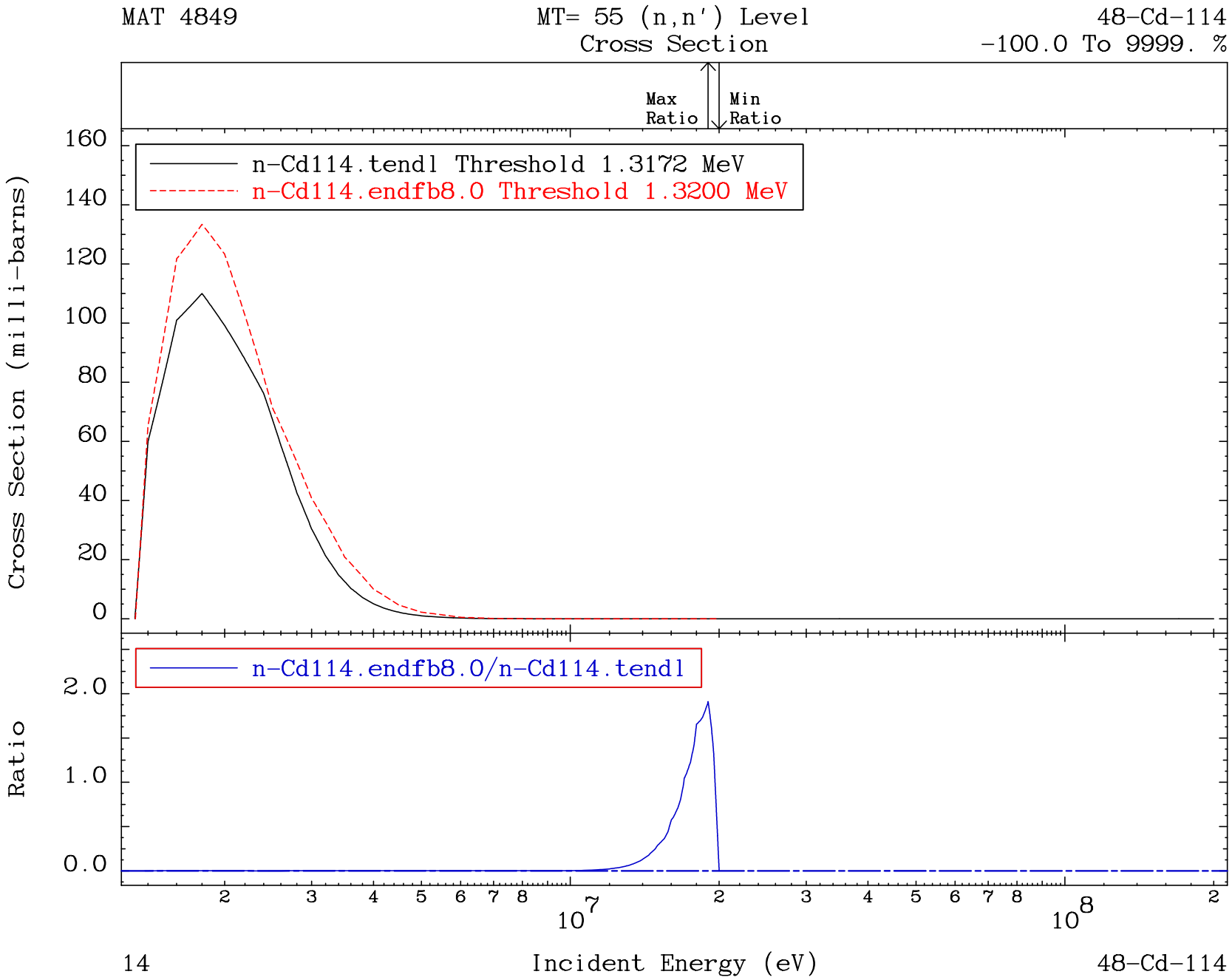

MAT 4849
(n,n') t
Cross Section
48-Cd-114
-100.0 To -97.47%
Max
Ratio
n-Cd114.tendl Threshold 16.898 MeV
n-Cd114.endfb8.0 Threshold 16.891 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10-2
10-4
10-6
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
48-Cd-114

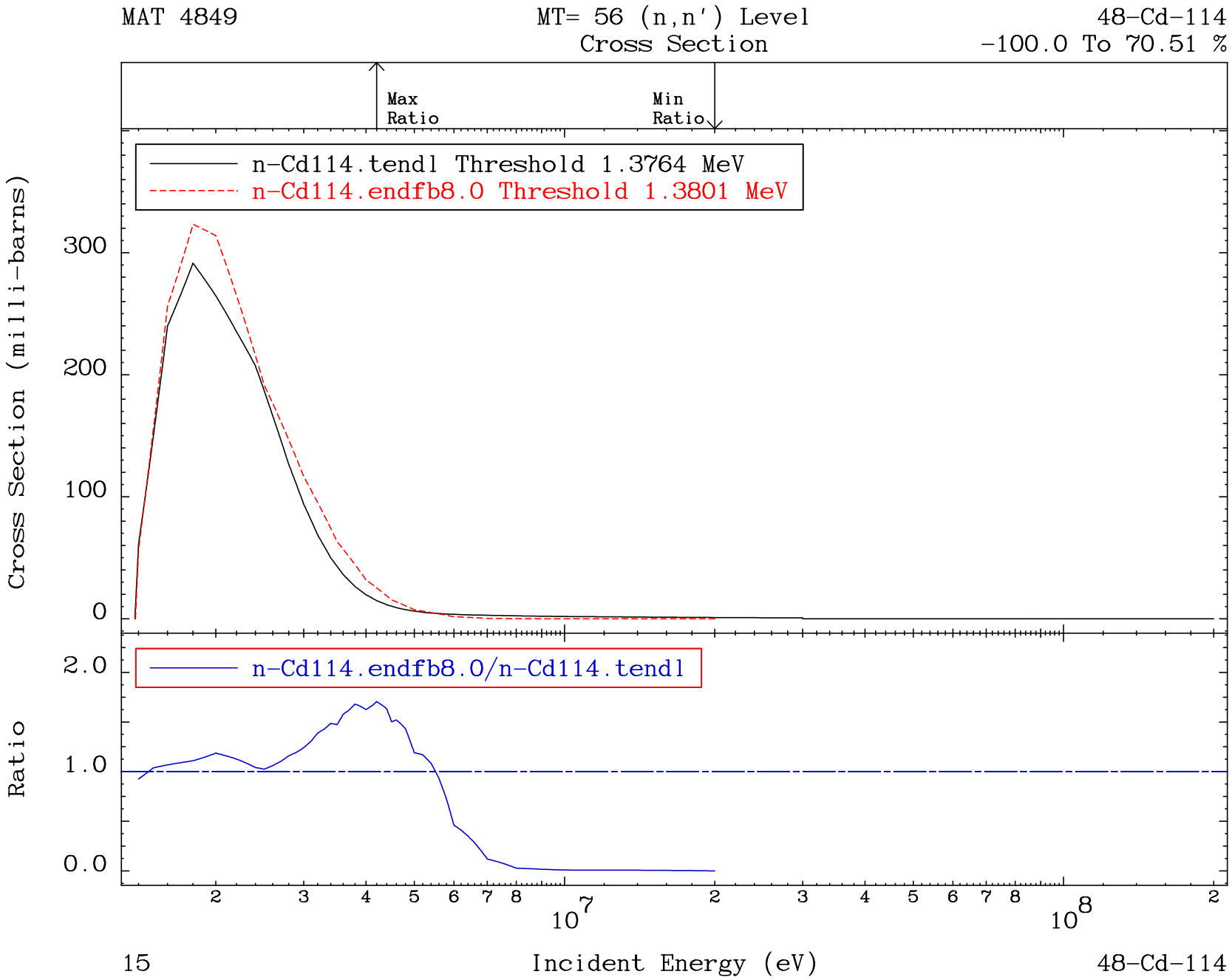

MAT 4849
MT= 51 (n,n') Level
Cross Section
48-Cd-114
-55.87 To 41.89 %
Max
Ratio
Min
Ratio
n-Cd114.tendl Threshold 563.40 keV
n-Cd114.endfb8.0 Threshold 563.04 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
1.6
1.2
0.8
0.4
6 7 8
10^6
2
3
4
5
6 7 8
10^7
2
3
4
5
6 7 8
10^8
2
10
Incident Energy (eV)
48-Cd-114

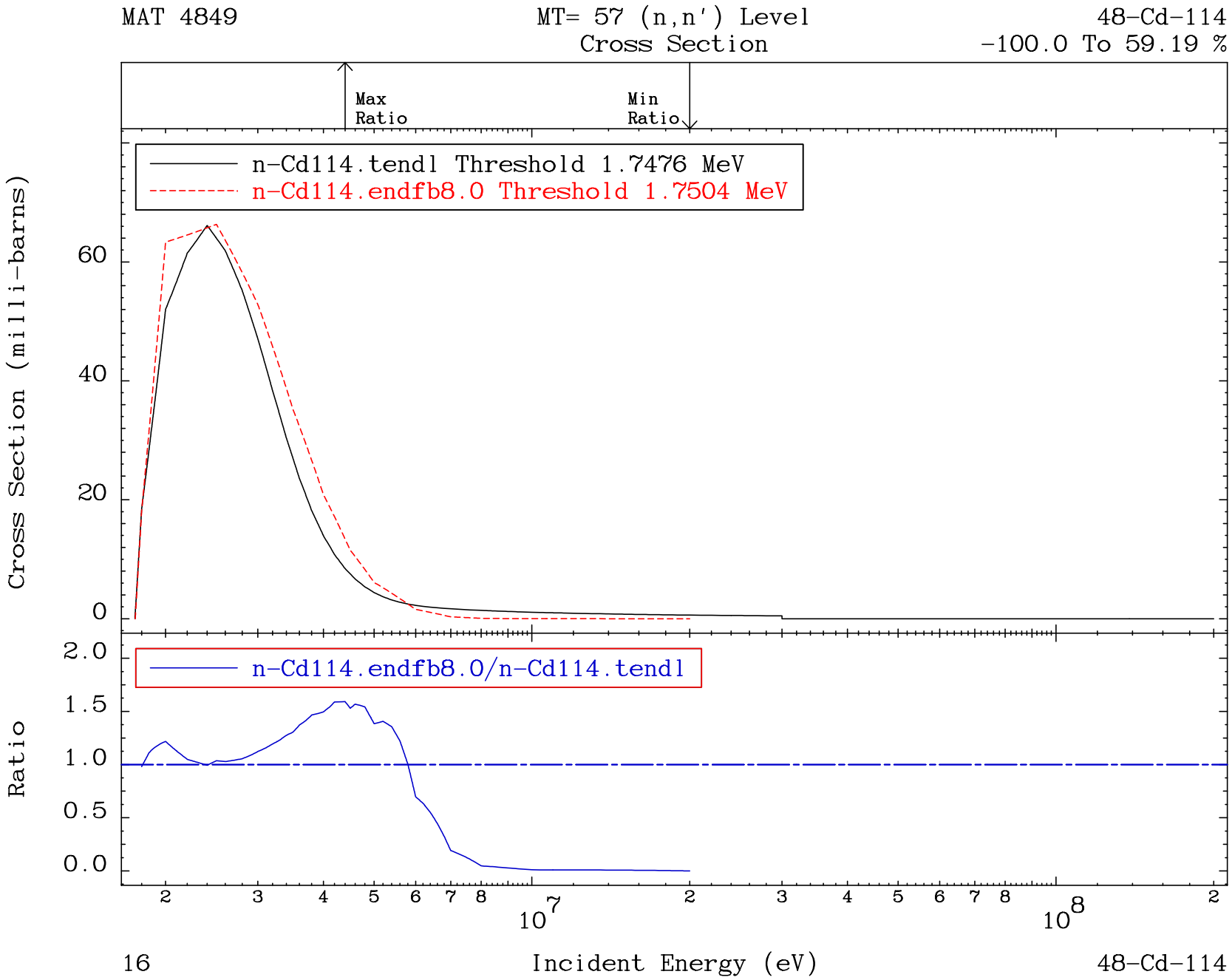

MAT 4849
MT= 52 (n,n') Level
Cross Section
48-Cd-114
-100.0 To 16.27 %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 1.1446 MeV
n-Cd114.endfb8.0 Threshold 1.1400 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
1.2
0.8
0.4
0.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
48-Cd-114

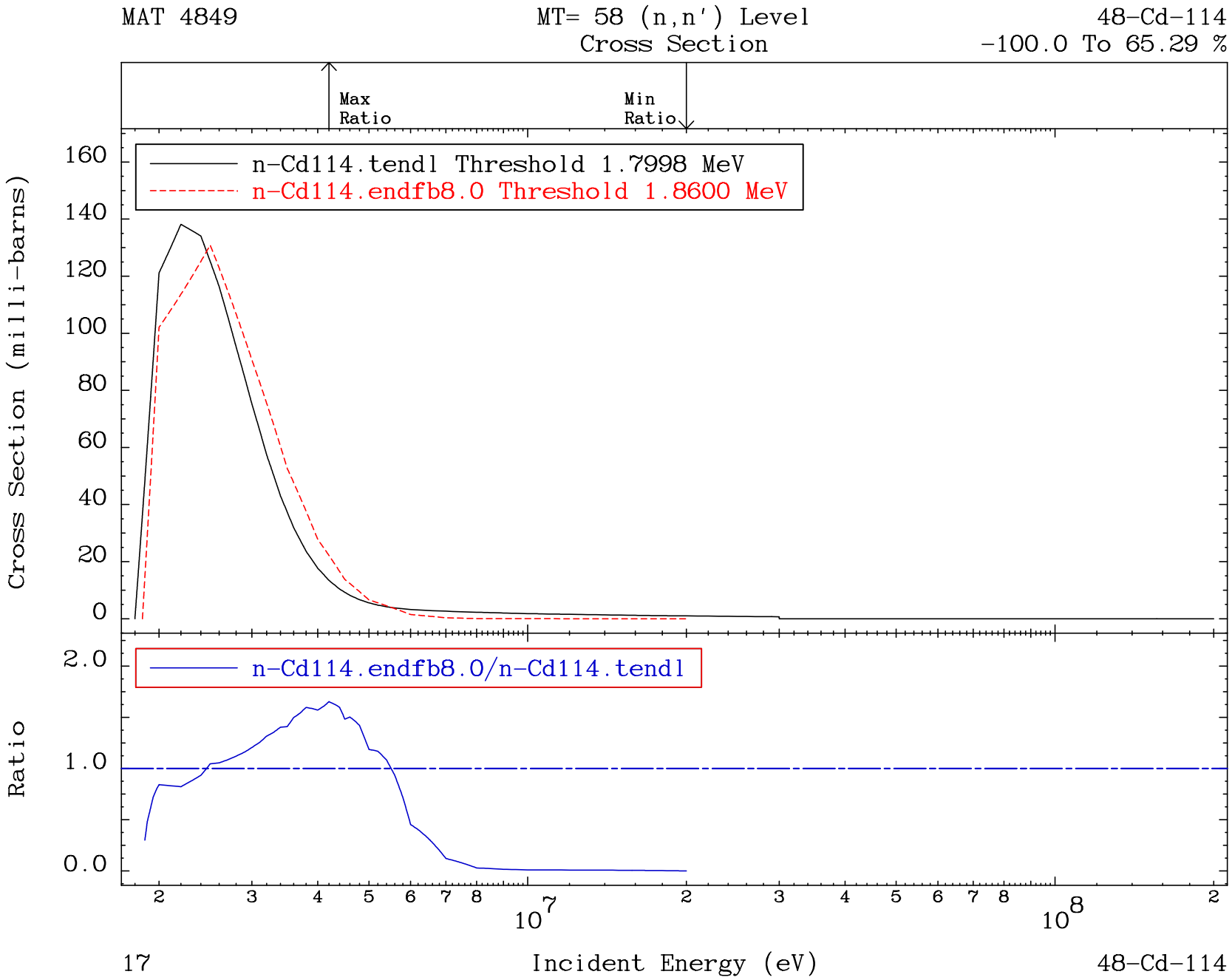

MAT 4849
MT= 53 (n,n') Level
Cross Section
48-Cd-114
-100.0 To 11.03 %
Max
Ratio
Min
Ratio
n-Cd114.tendl Threshold 1.2204 MeV
n-Cd114.endfb8.0 Threshold 1.2207 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
48-Cd-114

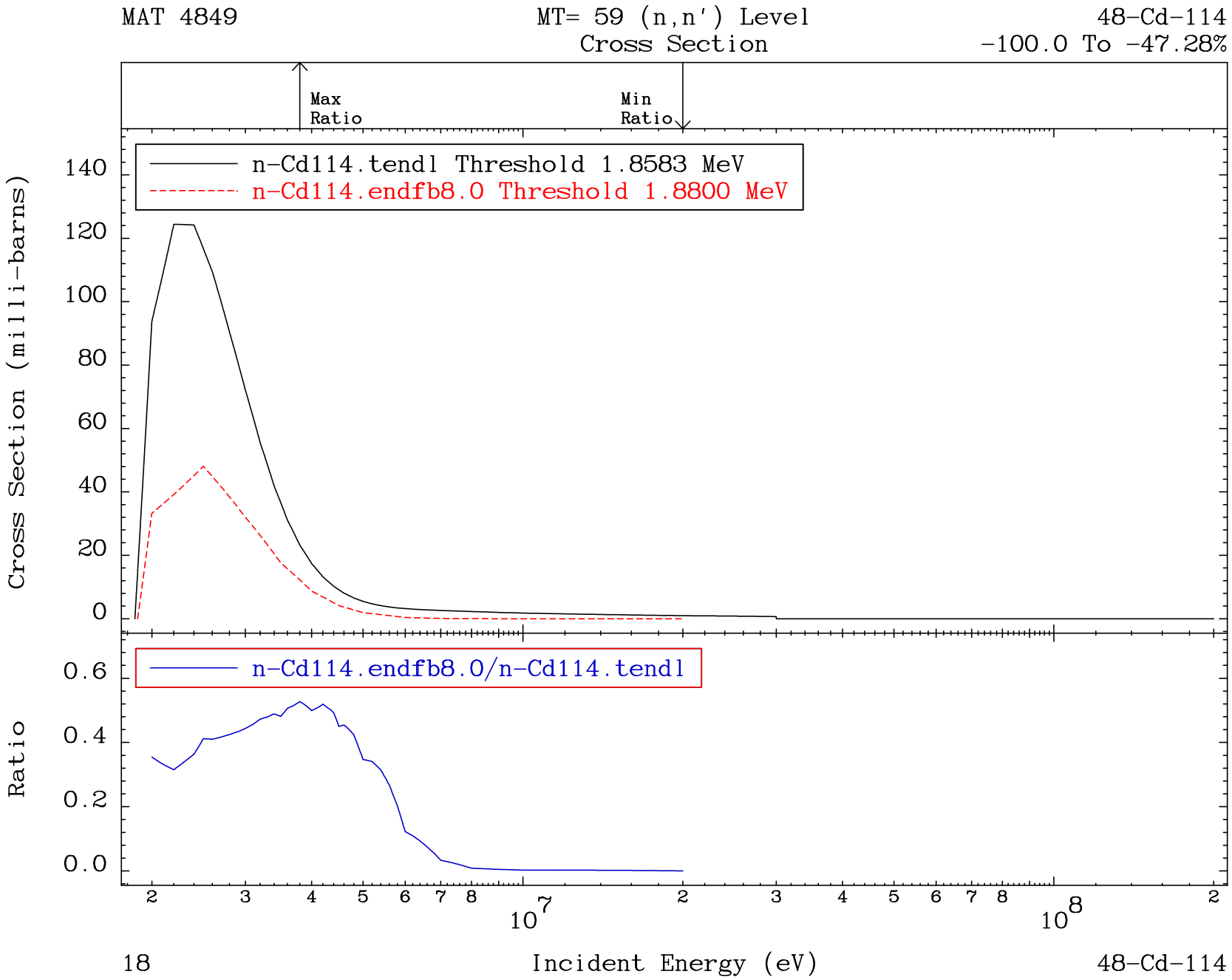

MAT 4849
MT= 54 (n,n') Level
Cross Section
48-Cd-114
-100.0 To 16.49 %
Max
Ratio
Min
Ratio
n-Cd114.tendl Threshold 1.2951 MeV
n-Cd114.endfb8.0 Threshold 1.2903 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
48-Cd-114

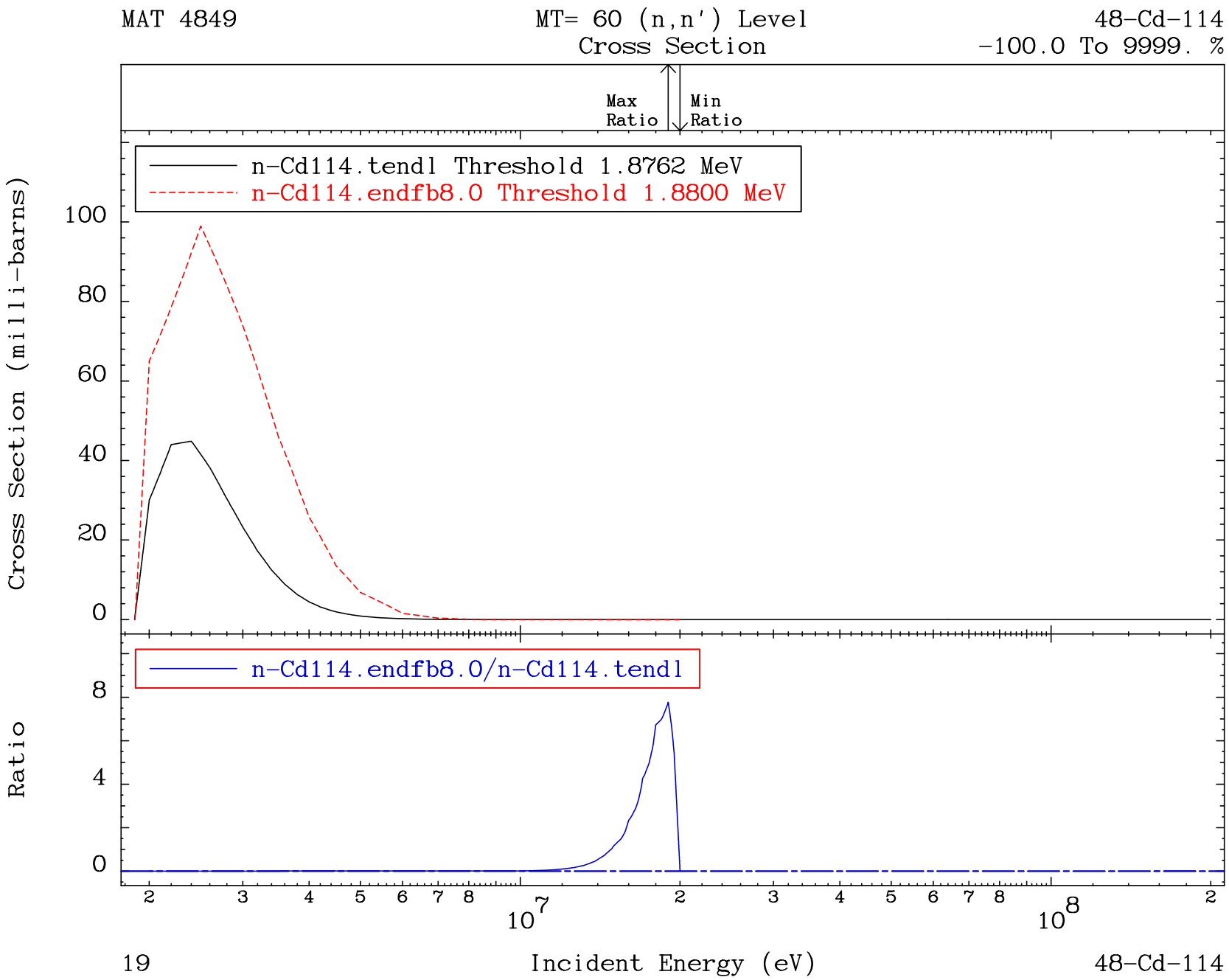

MAT 4849
MT= 55 (n,n') Level
Cross Section
48-Cd-114
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 1.3172 MeV
n-Cd114.endfb8.0 Threshold 1.3200 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
48-Cd-114

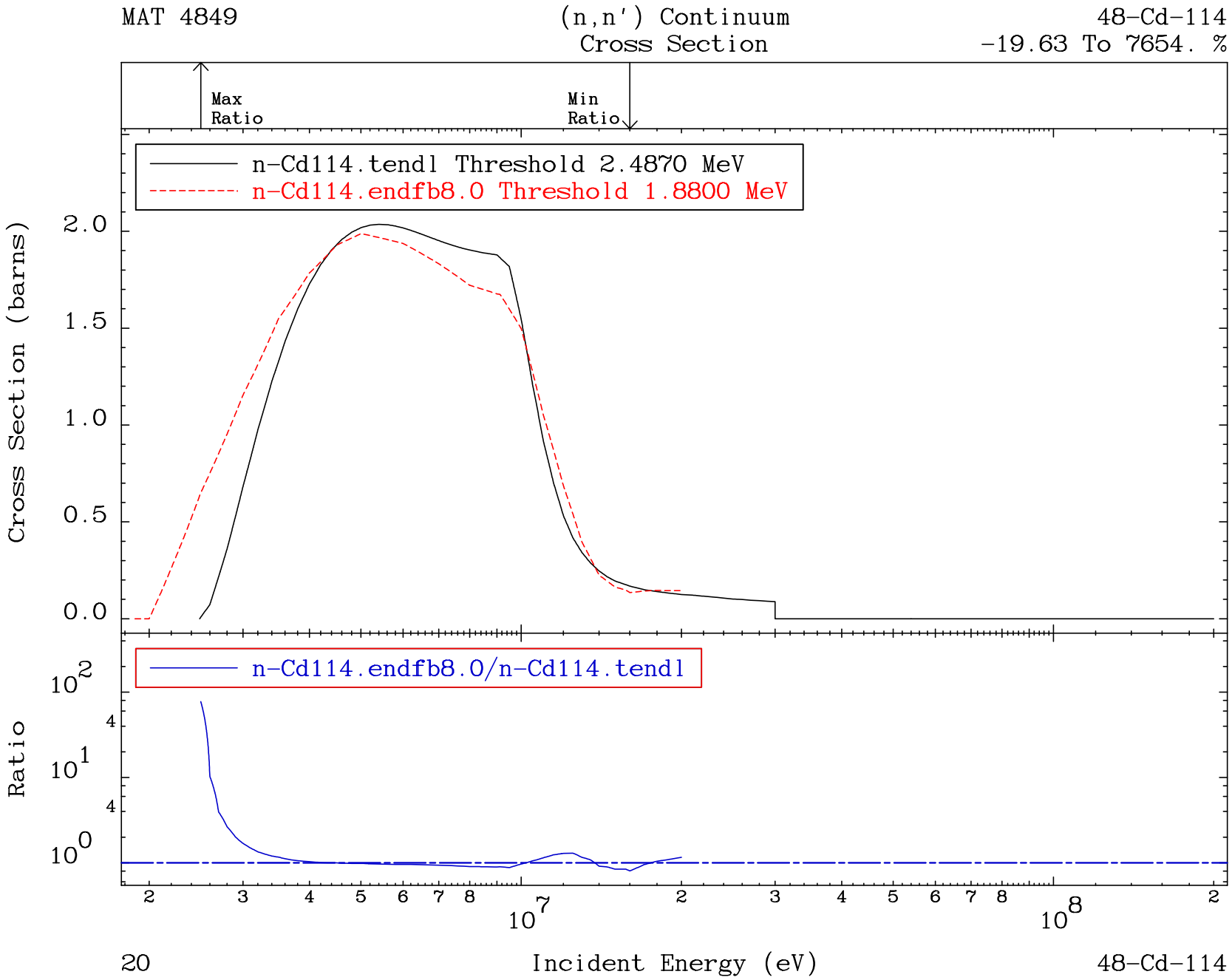

MAT 4849
MT= 56 (n,n') Level
Cross Section
48-Cd-114
-100.0 To 70.51 %
Max
Ratio
Min
Ratio
n-Cd114.tendl Threshold 1.3764 MeV
n-Cd114.endfb8.0 Threshold 1.3801 MeV
Cross Section (milli-barns)
300
200
100
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
2.0
1.0
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
48-Cd-114

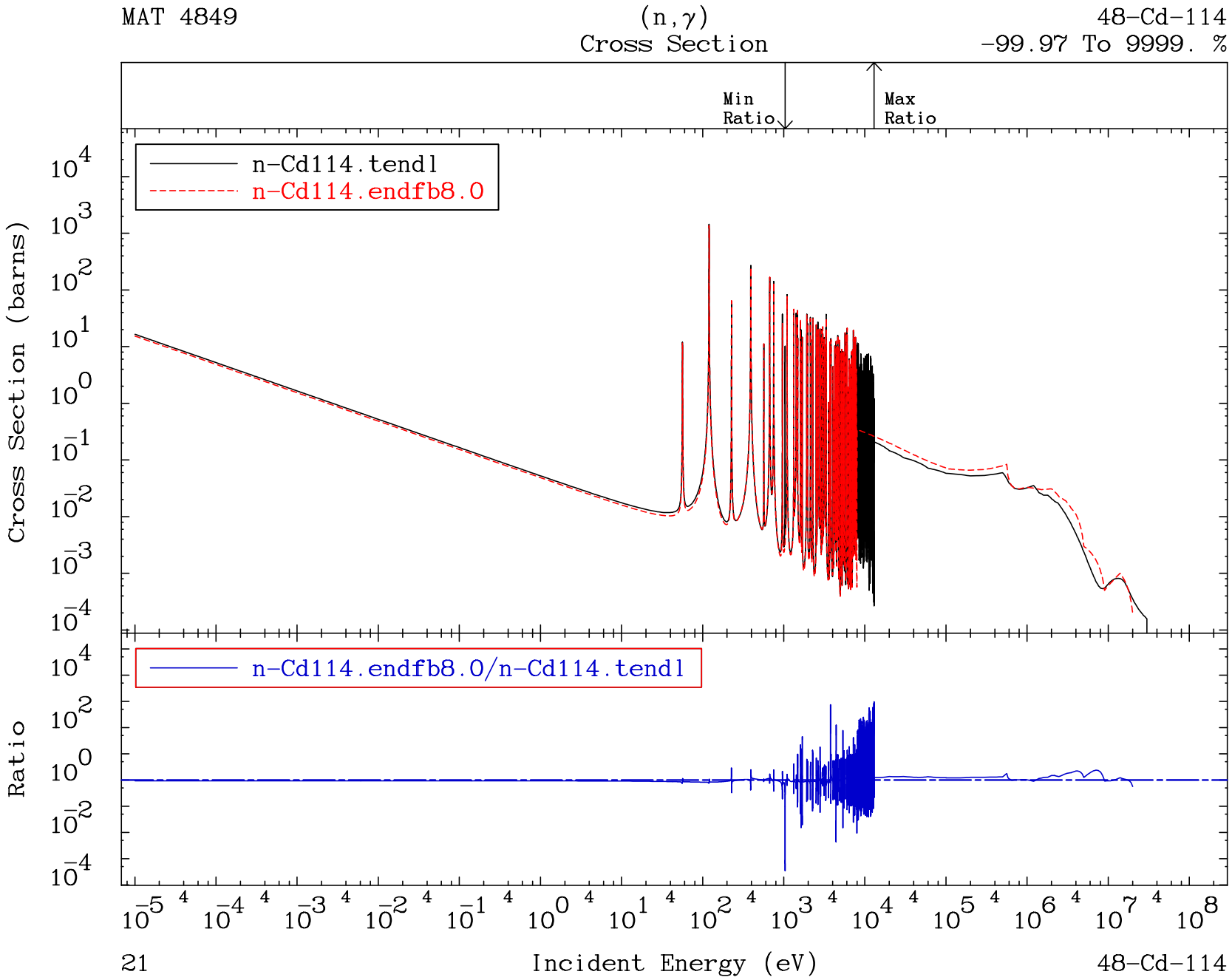

MAT 4849
MT= 57 (n,n') Level
Cross Section
48-Cd-114
-100.0 To 59.19 %
Max
Ratio
Min
Ratio
n-Cd114.tendl Threshold 1.7476 MeV
n-Cd114.endfb8.0 Threshold 1.7504 MeV
Cross Section (milli-barns)
60
40
20
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
2.0
1.5
1.0
0.5
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
48-Cd-114

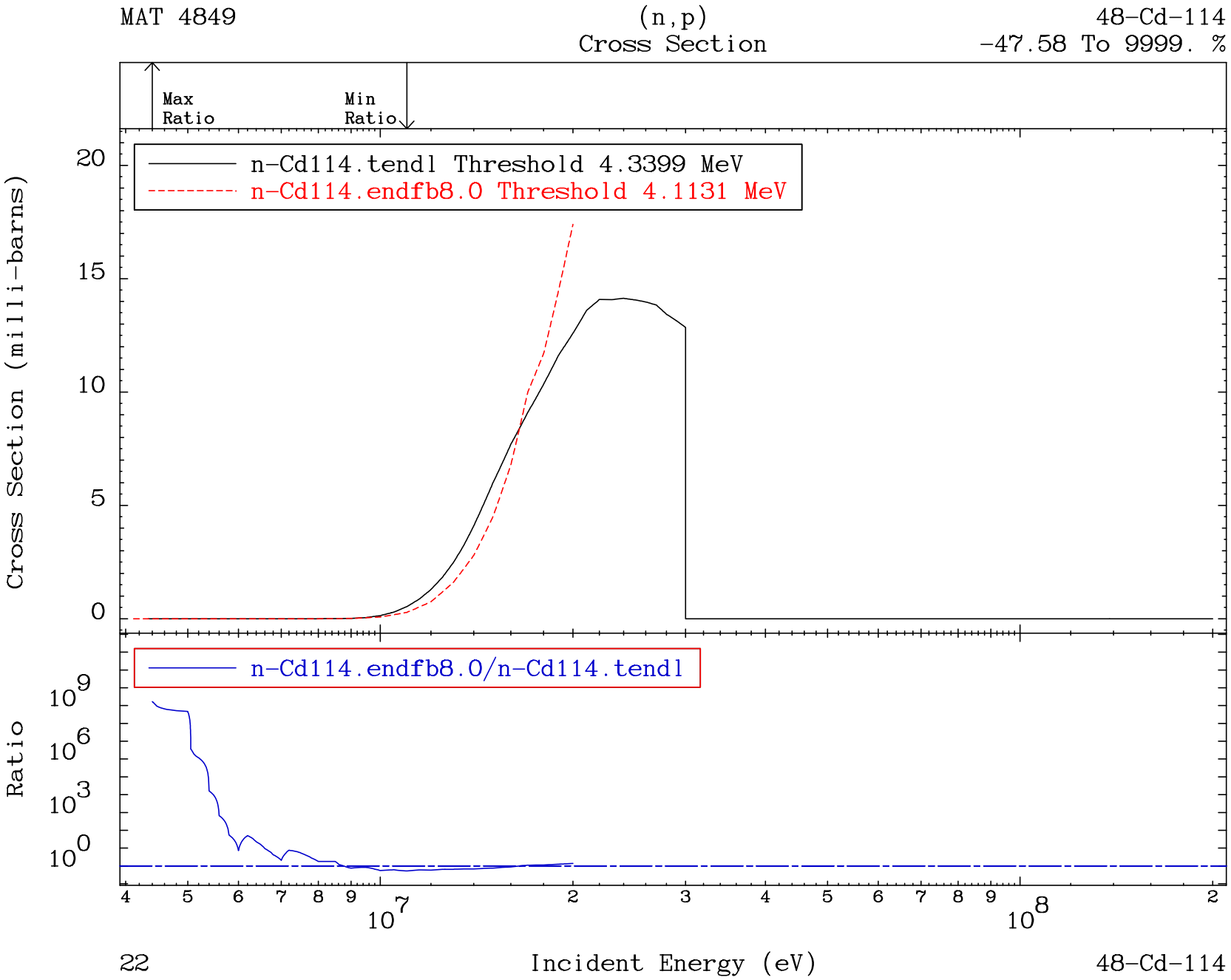

MAT 4849
MT= 58 (n,n') Level
Cross Section
48-Cd-114
-100.0 To 65.29 %
Max
Ratio
Min
Ratio
n-Cd114.tendl Threshold 1.7998 MeV
n-Cd114.endfb8.0 Threshold 1.8600 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
2.0
1.0
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
48-Cd-114

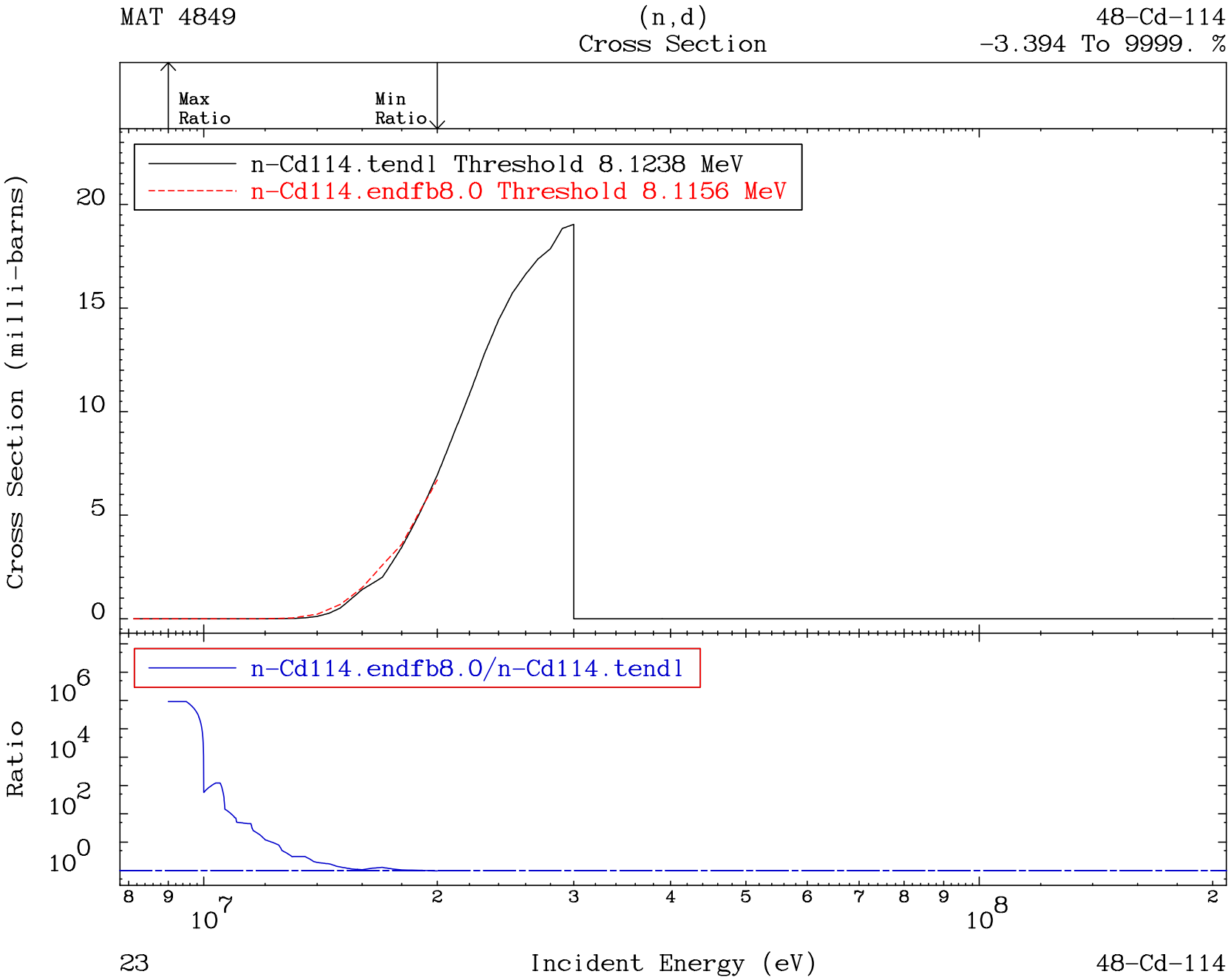

MAT 4849
MT= 59 (n,n') Level
Cross Section
48-Cd-114
-100.0 To -47.28%
Max
Ratio
Min
Ratio
n-Cd114.tendl Threshold 1.8583 MeV
n-Cd114.endfb8.0 Threshold 1.8800 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
0.6
0.4
0.2
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
48-Cd-114

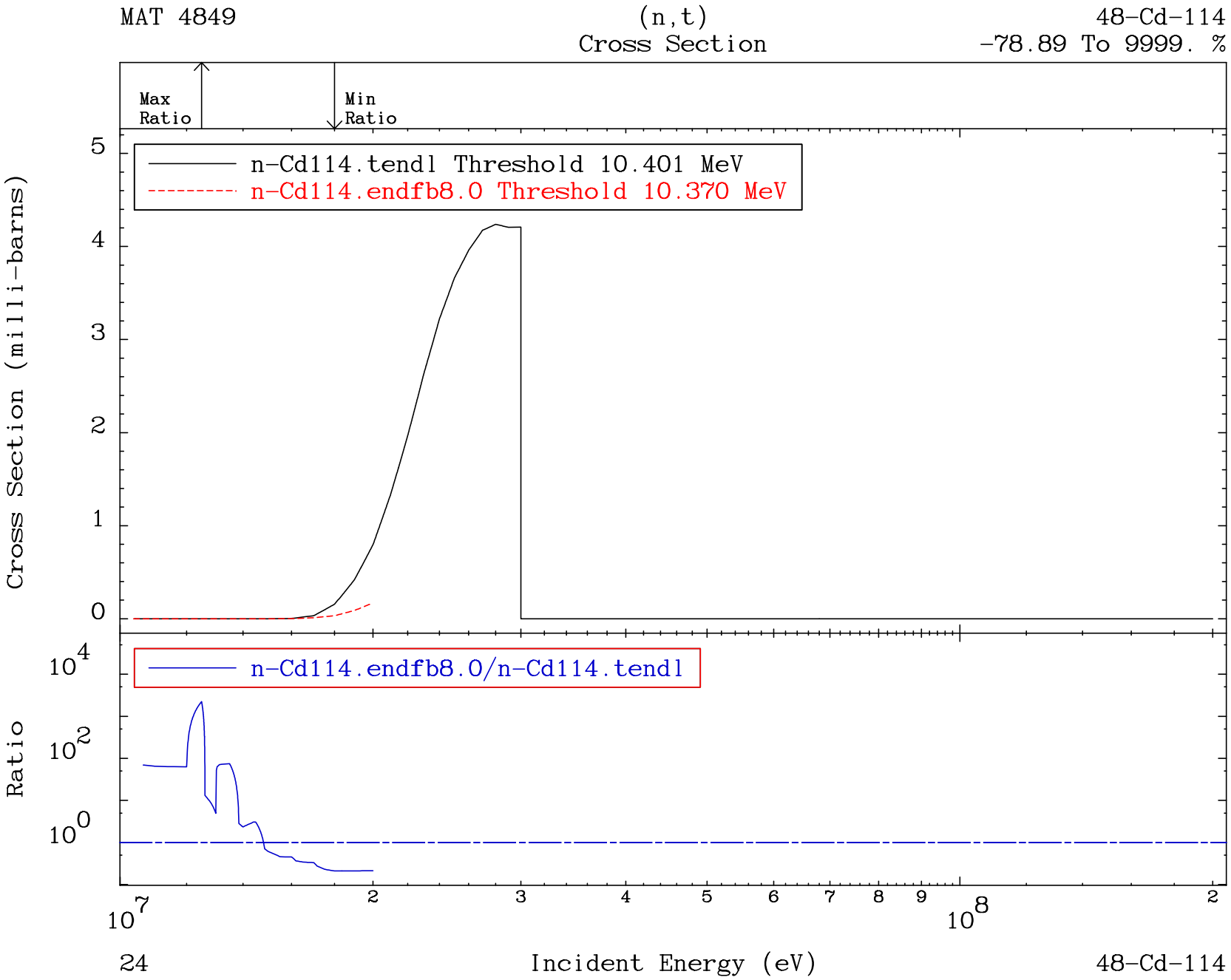

MAT 4849
MT= 60 (n,n') Level
Cross Section
48-Cd-114
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 1.8762 MeV
n-Cd114.endfb8.0 Threshold 1.8800 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
8
4
0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
19
Incident Energy (eV)
48-Cd-114

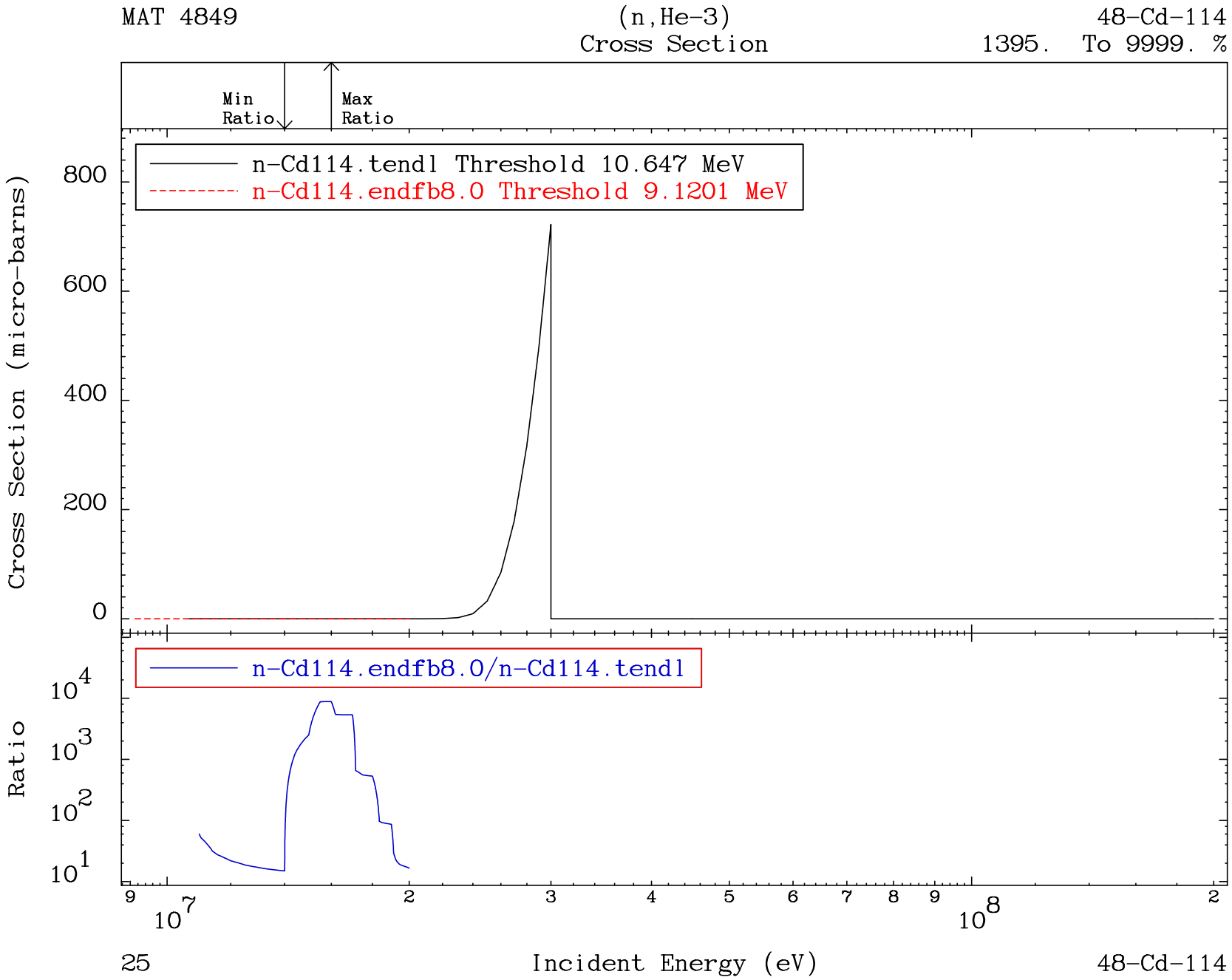

MAT 4849
(n,n') Continuum
Cross Section
48-Cd-114
-19.63 To 7654. %
Max
Ratio
Min
Ratio
n-Cd114.tendl Threshold 2.4870 MeV
n-Cd114.endfb8.0 Threshold 1.8800 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
48-Cd-114

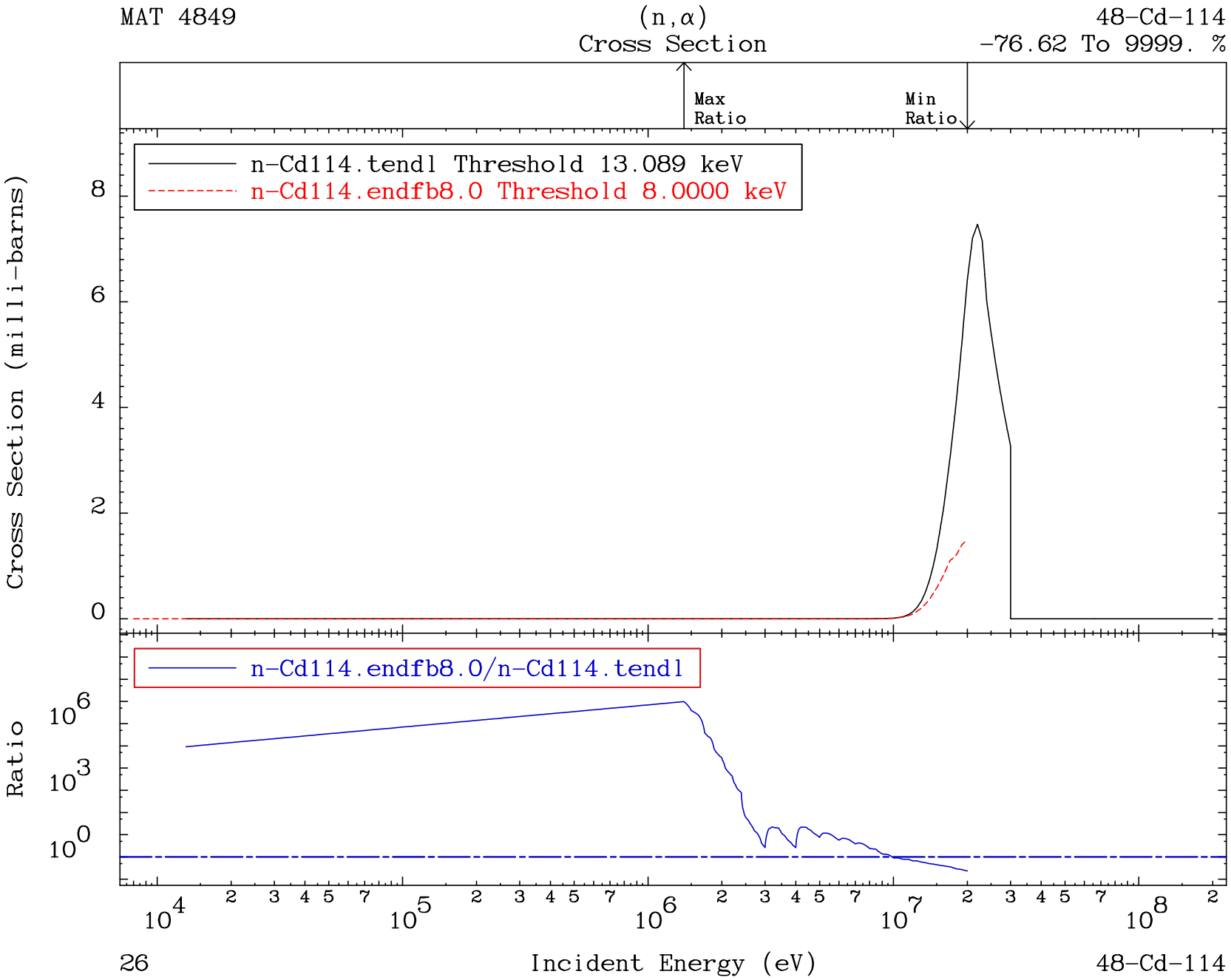

MAT 4849
(n,γ)
Cross Section
48-Cd-114
-99.97 To 9999. %
Min Ratio
Max Ratio
n-Cd114.tendl
n-Cd114.endfb8.0
Cross Section (barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
Incident Energy (eV)
21
48-Cd-114

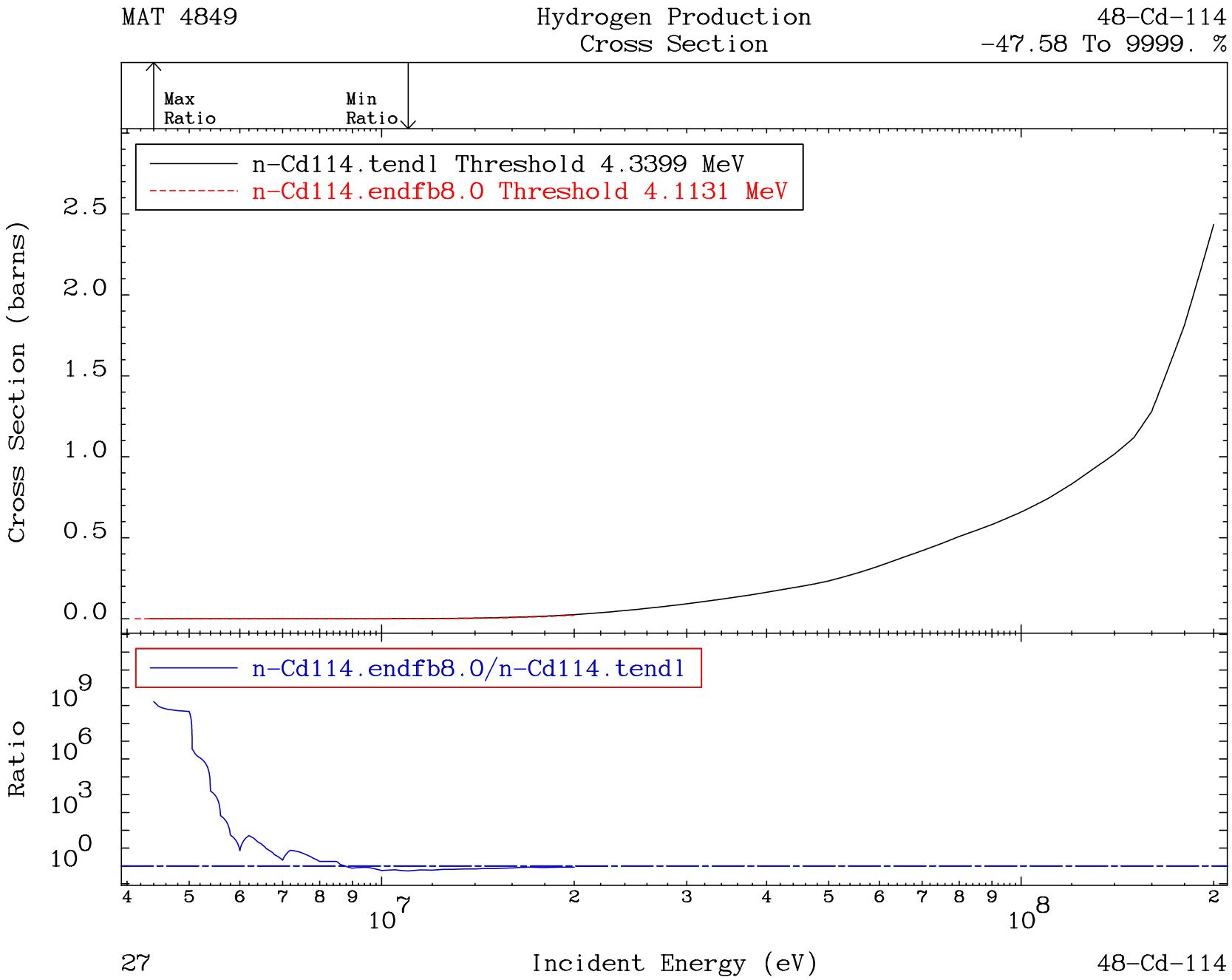

MAT 4849
(n,p)
Cross Section
48-Cd-114
-47.58 To 9999. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 4.3399 MeV
n-Cd114.endfb8.0 Threshold 4.1131 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^9
10^6
10^3
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
48-Cd-114

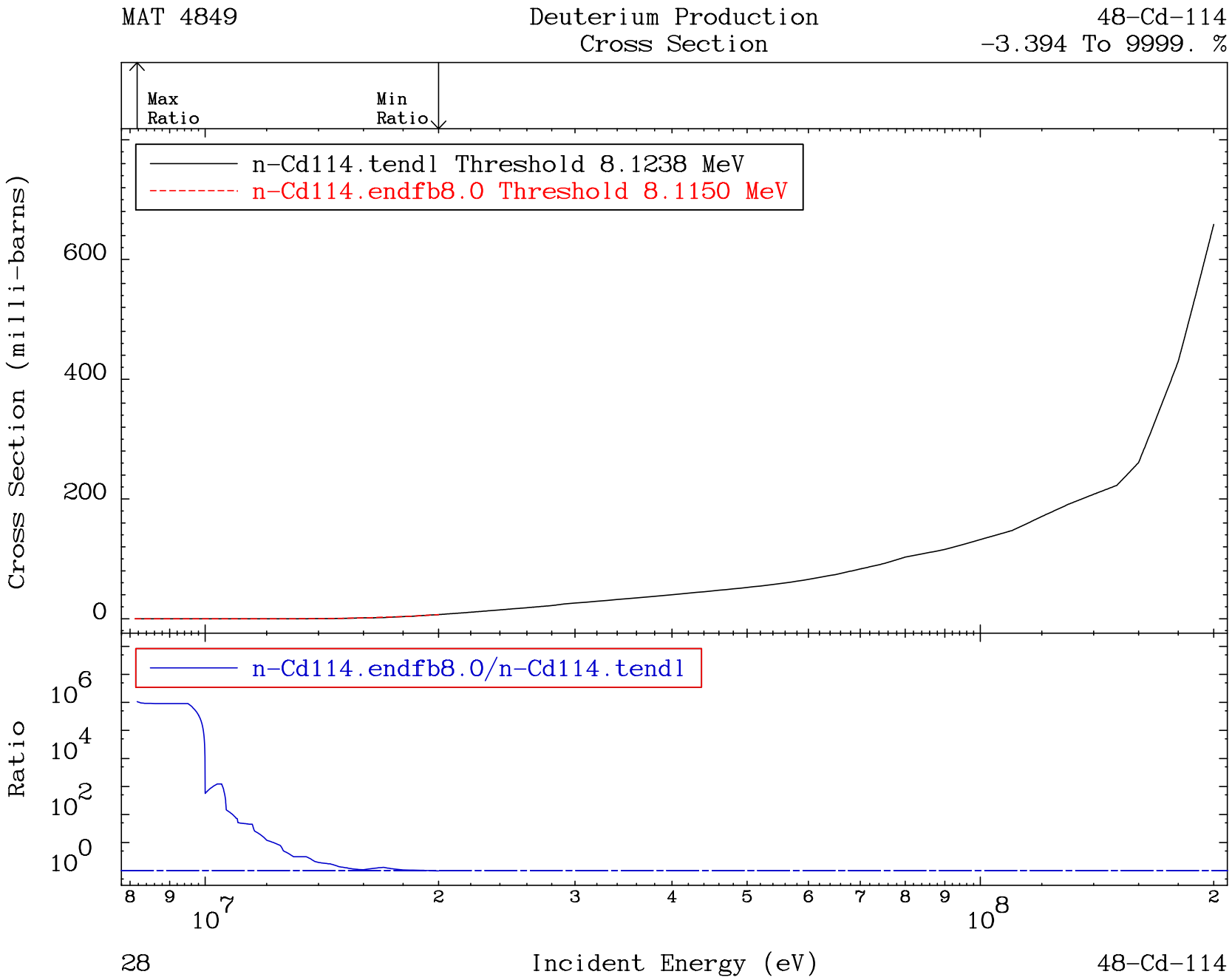

MAT 4849
(n,d)
Cross Section
48-Cd-114
-3.394 To 9999. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 8.1238 MeV
n-Cd114.endfb8.0 Threshold 8.1156 MeV
Cross Section (milli-barns)
0
5
10
15
20
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^0
10^2
10^4
10^6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
48-Cd-114

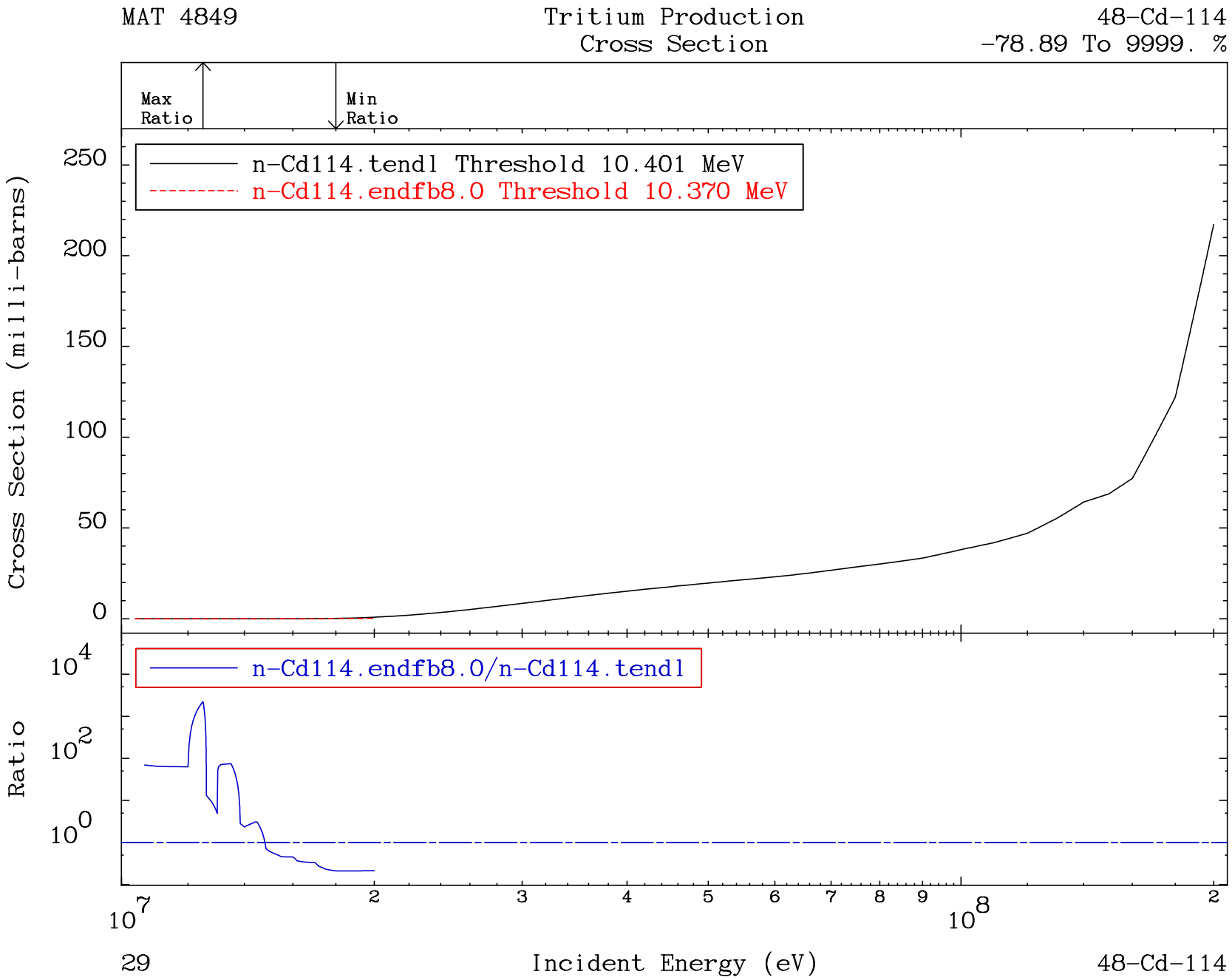

MAT 4849
(n,t)
Cross Section
48-Cd-114
-78.89 To 9999. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 10.401 MeV
n-Cd114.endfb8.0 Threshold 10.370 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^4
10^2
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
24
Incident Energy (eV)
48-Cd-114

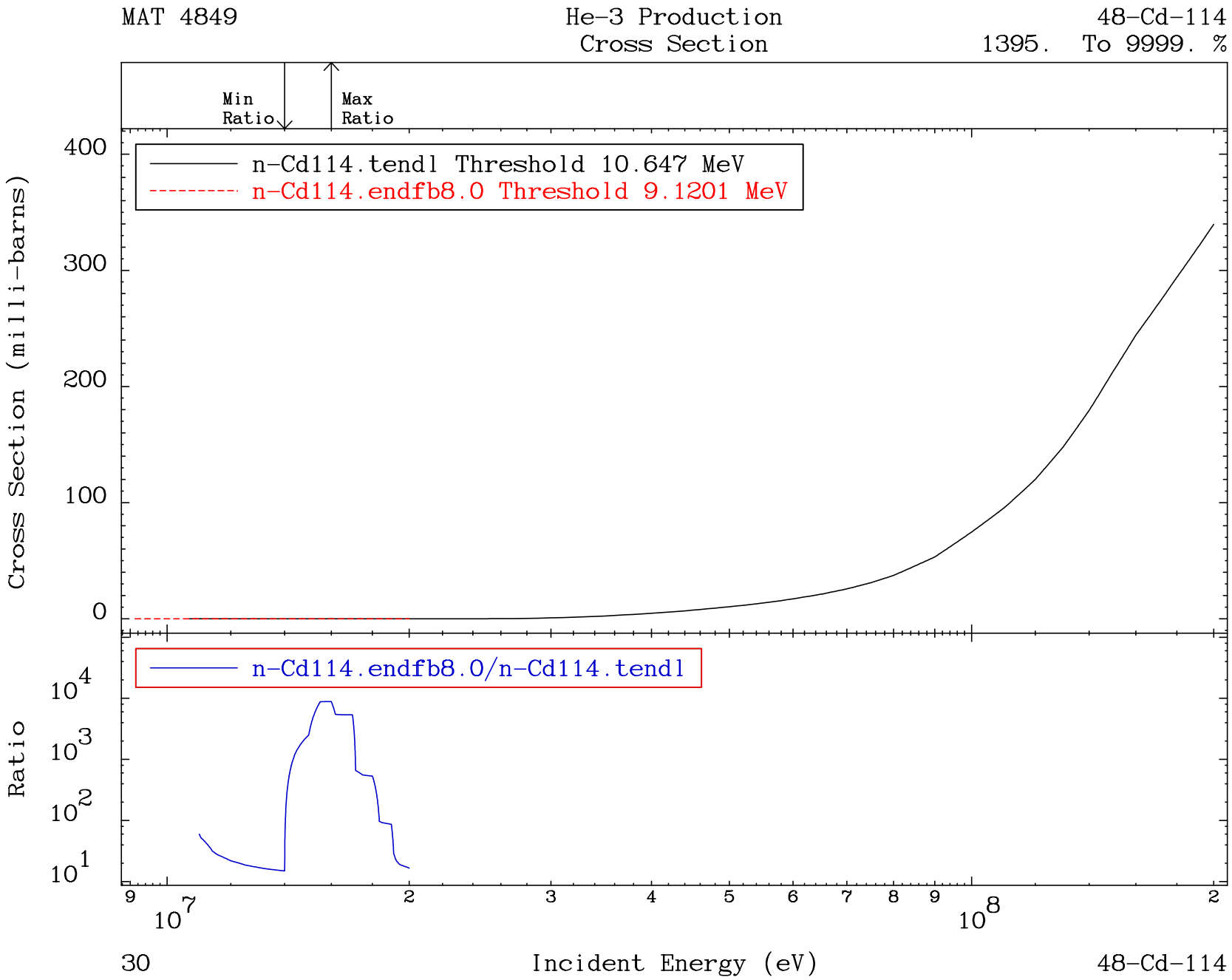

MAT 4849
(n,He-3)
Cross Section
48-Cd-114
1395. To 9999. %
Min Ratio
Max Ratio
n-Cd114.tendl Threshold 10.647 MeV
n-Cd114.endfb8.0 Threshold 9.1201 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^4
10^3
10^2
10^1
9
10^7
2
3
4
5
6
7
8
9
10^8
2
25
Incident Energy (eV)
48-Cd-114

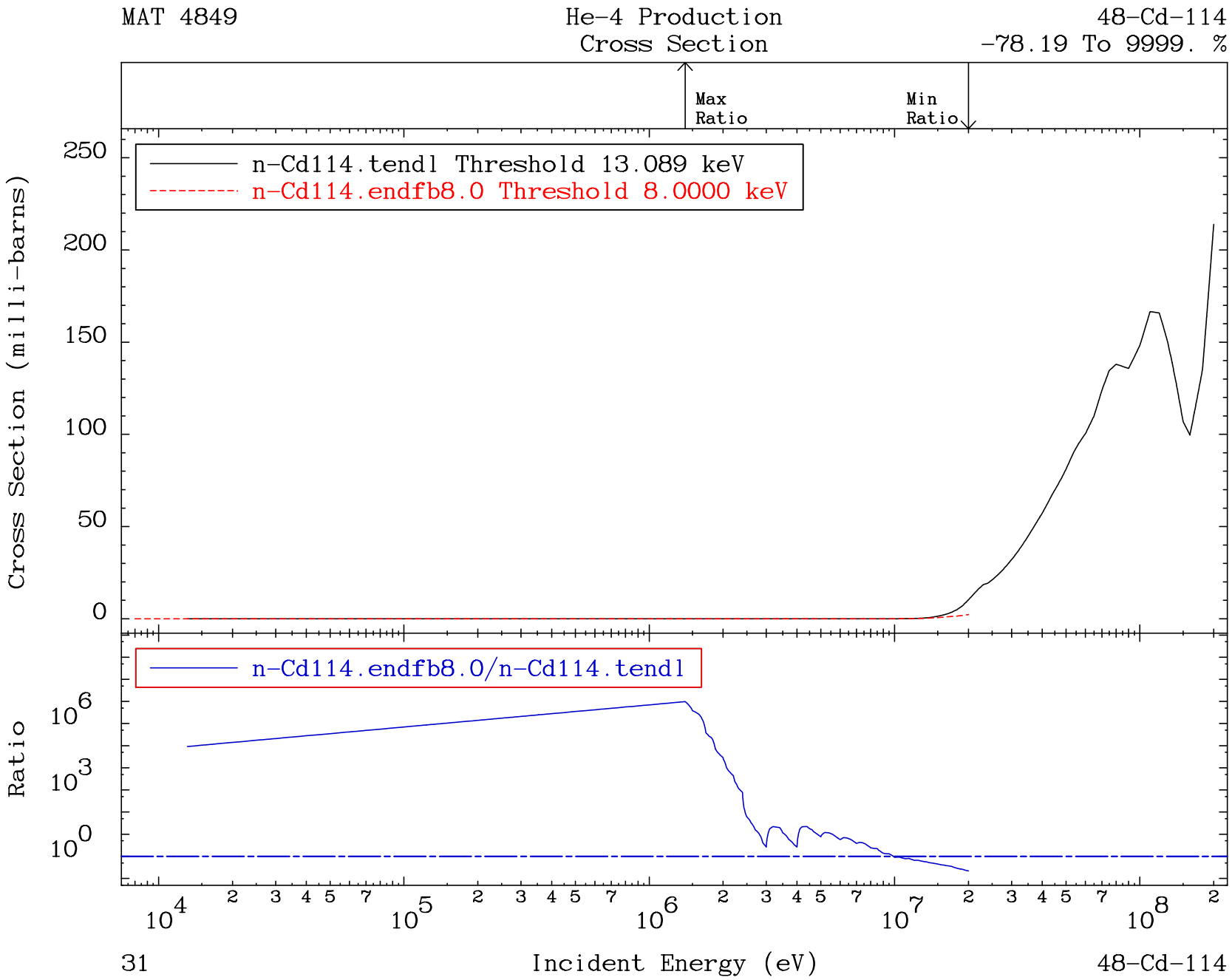

MAT 4849
(n,α)
Cross Section
48-Cd-114
-76.62 To 9999. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 13.089 keV
n-Cd114.endfb8.0 Threshold 8.0000 keV
Cross Section (milli-barns)
0
2
4
6
8
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^0
10^3
10^6
10^4
10^5
10^6
10^7
10^8
Incident Energy (eV)
26
48-Cd-114

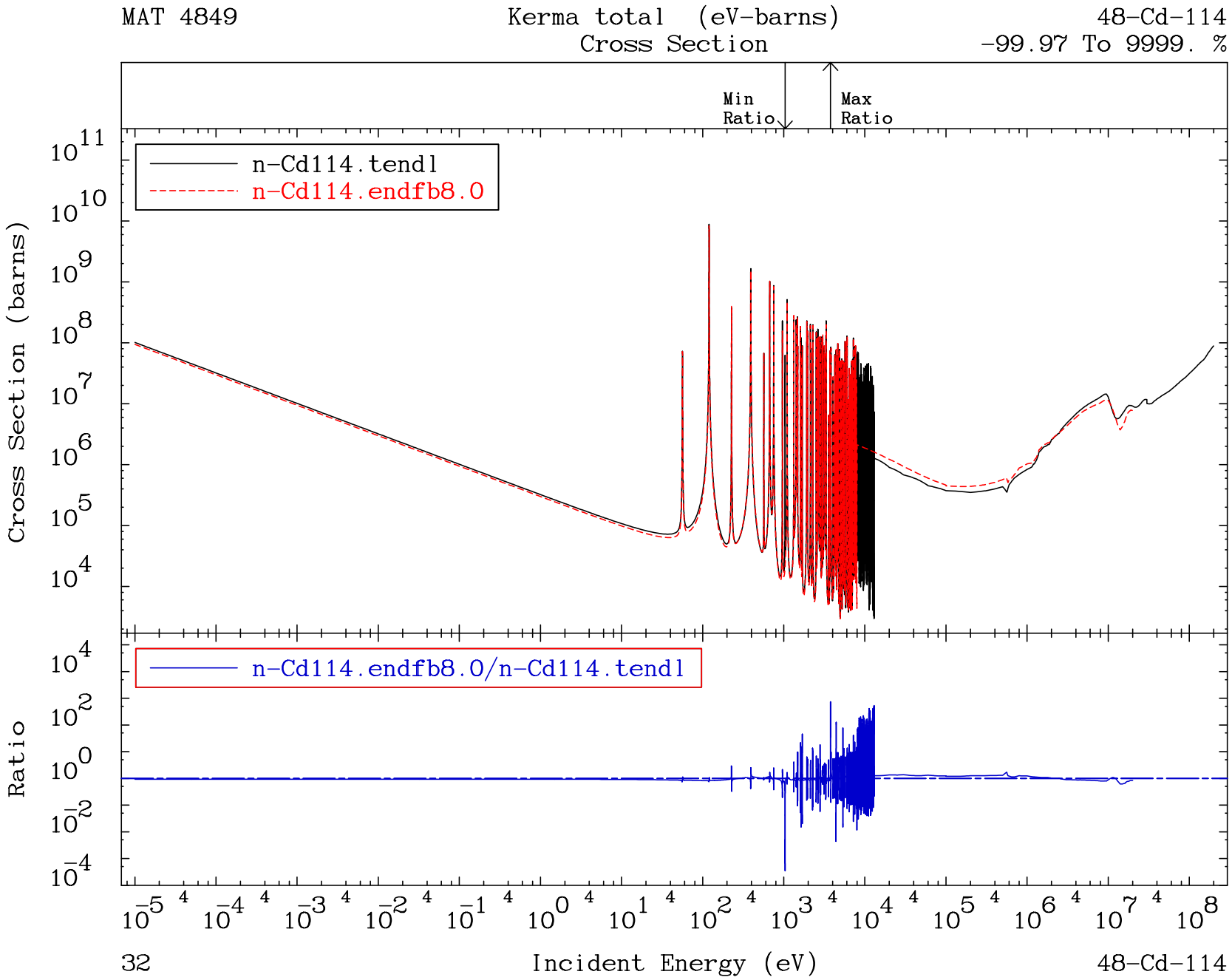

MAT 4849
Hydrogen Production
Cross Section
48-Cd-114
-47.58 To 9999. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 4.3399 MeV
n-Cd114.endfb8.0 Threshold 4.1131 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^9
10^6
10^3
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
48-Cd-114

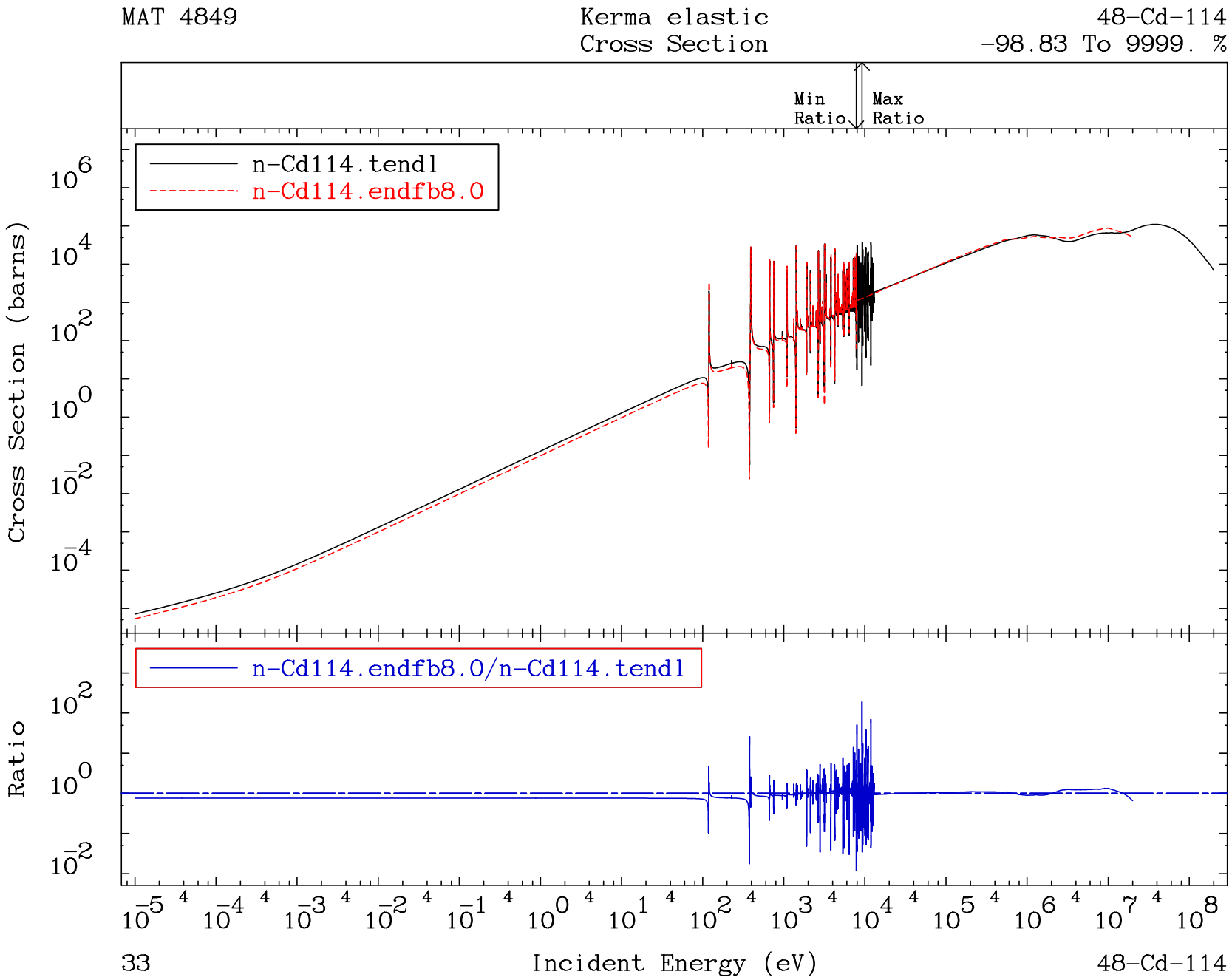

MAT 4849
Deuterium Production
Cross Section
48-Cd-114
-3.394 To 9999. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 8.1238 MeV
n-Cd114.endfb8.0 Threshold 8.1150 MeV
Cross Section (milli-barns)
600
400
200
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^6
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
48-Cd-114

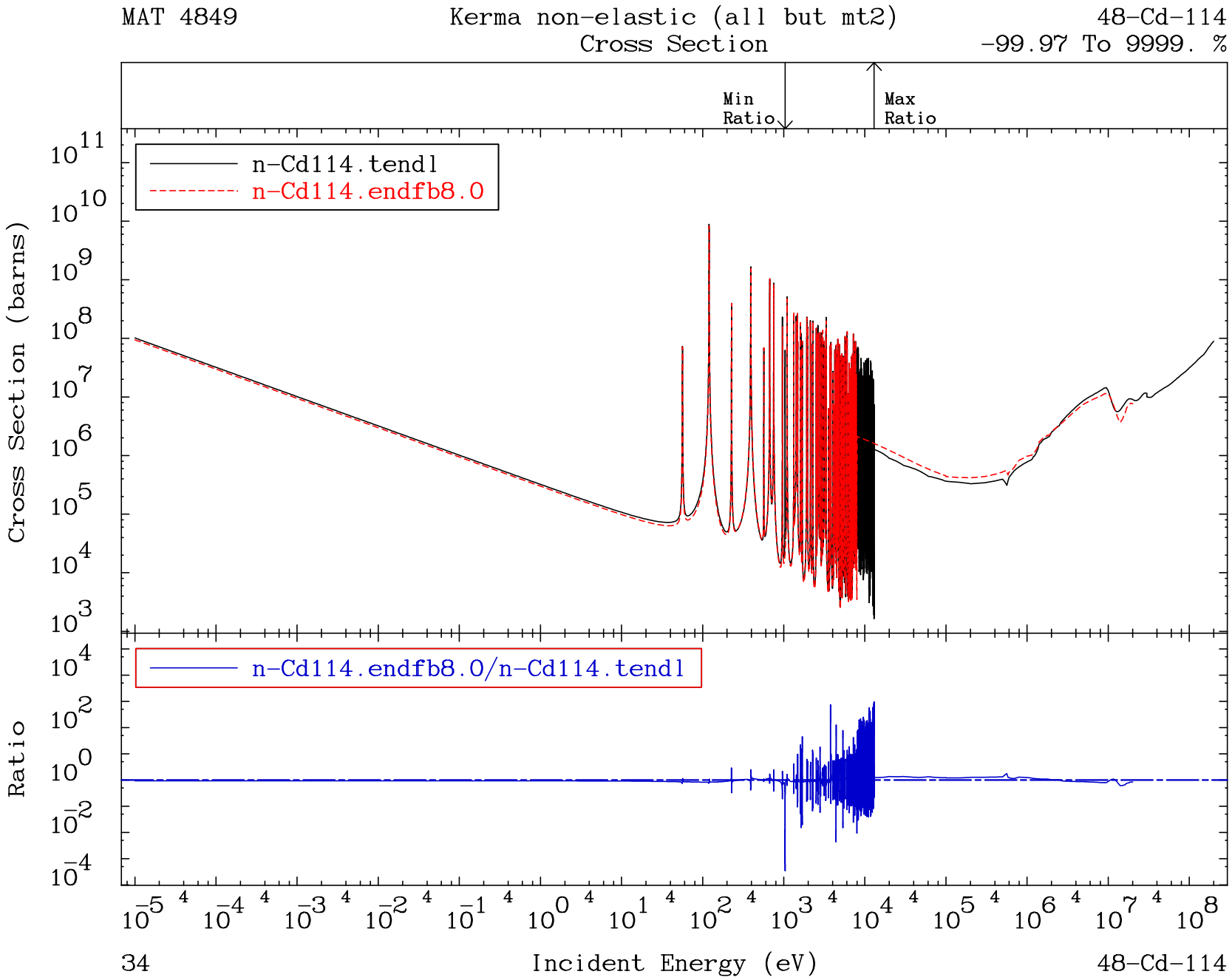

MAT 4849
Tritium Production
Cross Section
48-Cd-114
-78.89 To 9999. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 10.401 MeV
n-Cd114.endfb8.0 Threshold 10.370 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^4
10^2
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
48-Cd-114

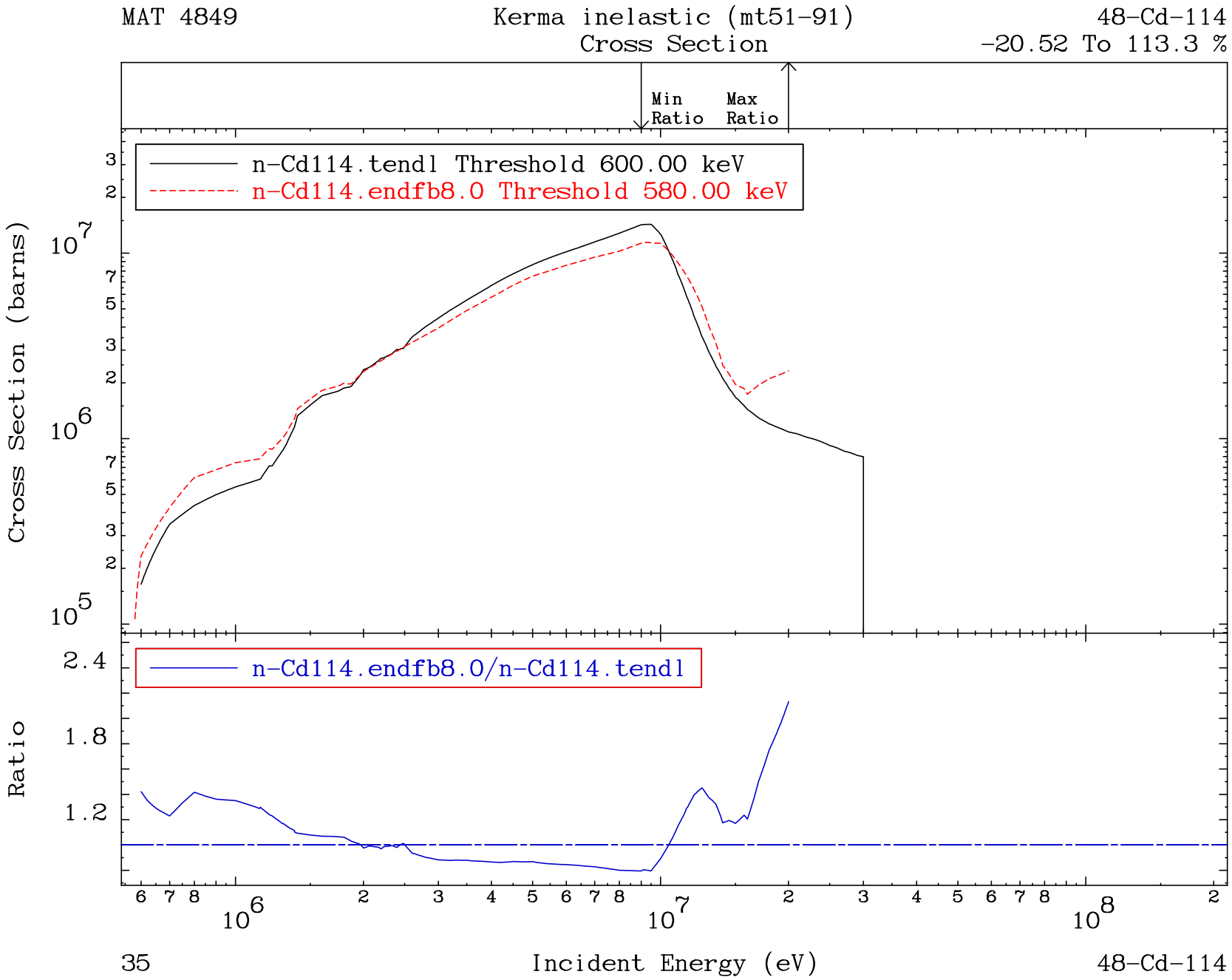

MAT 4849
He-3 Production
Cross Section
48-Cd-114
1395. To 9999. %
Min Ratio
Max Ratio
n-Cd114.tendl Threshold 10.647 MeV
n-Cd114.endfb8.0 Threshold 9.1201 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^4
10^3
10^2
10^1
9
10^7
2
3
4
5
6
7
8
9
10^8
2
30
Incident Energy (eV)
48-Cd-114

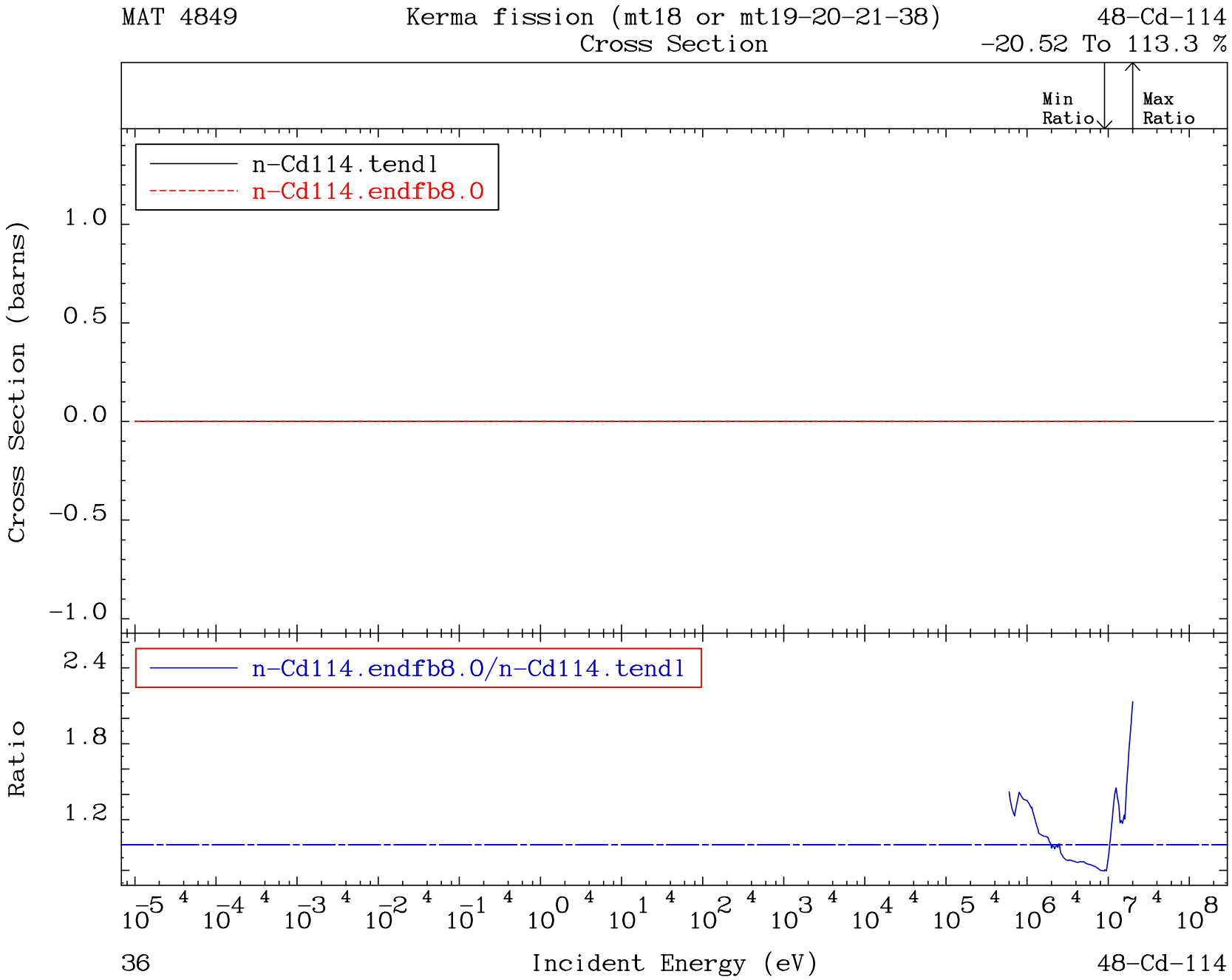

MAT 4849
He-4 Production
Cross Section
48-Cd-114
-78.19 To 9999. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 13.089 keV
n-Cd114.endfb8.0 Threshold 8.0000 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^6
10^3
10^0
10^4
10^5
10^6
10^7
10^8
31
Incident Energy (eV)
48-Cd-114

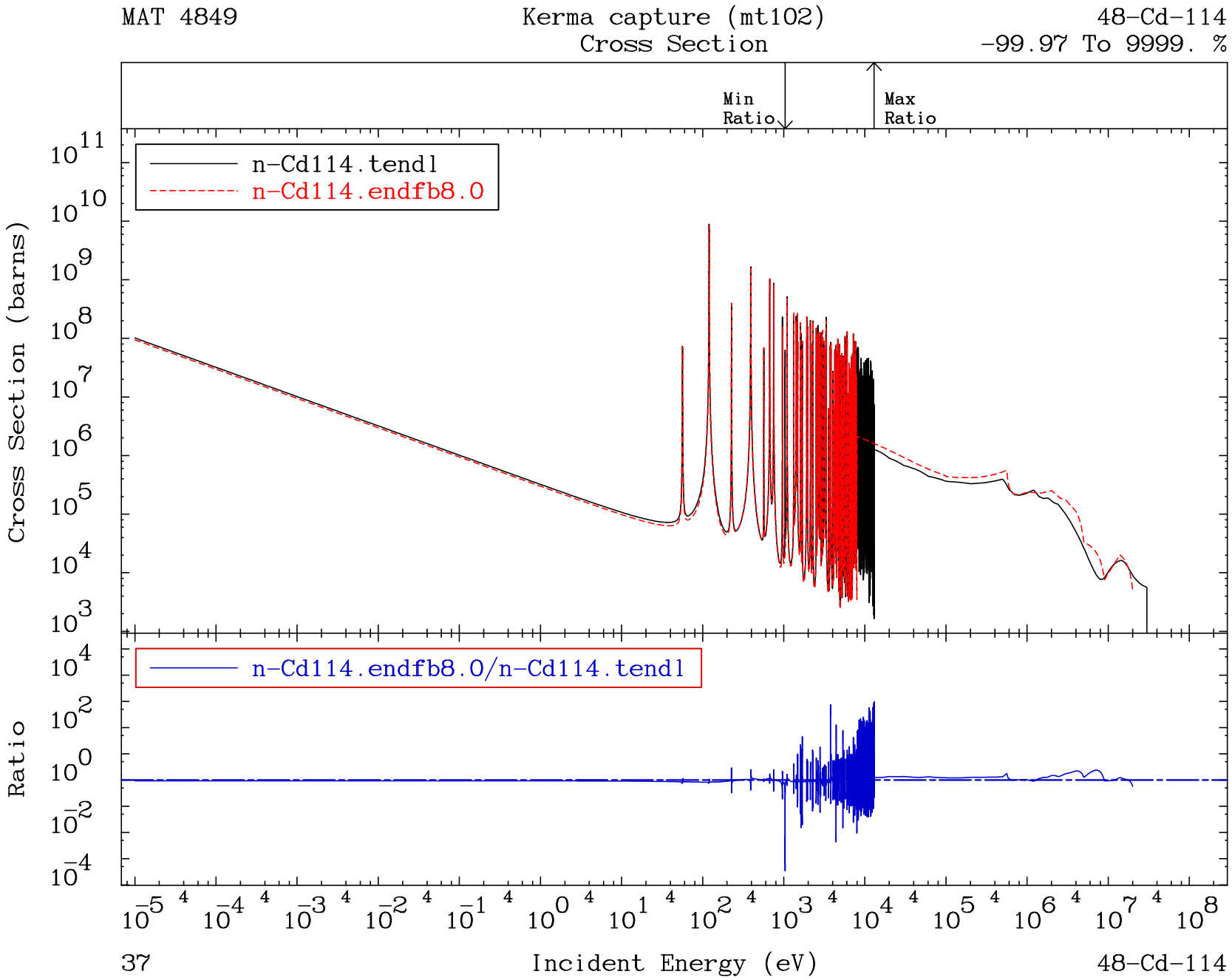

MAT 4849
Kerma total (eV-barns)
Cross Section
48-Cd-114
-99.97 To 9999. %
Min Ratio
Max Ratio
n-Cd114.tendl
n-Cd114.endfb8.0
Cross Section (barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
32
Incident Energy (eV)
48-Cd-114

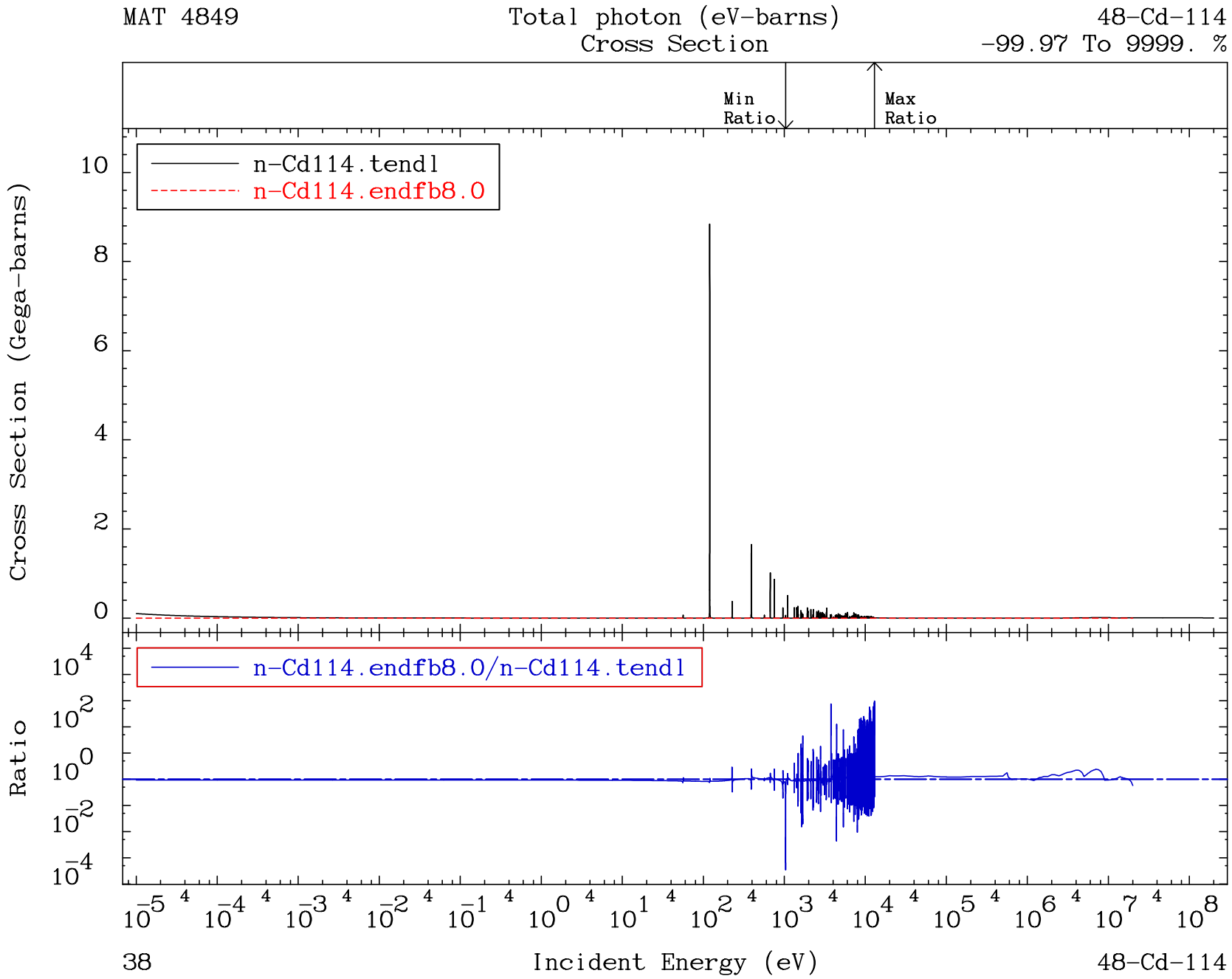

MAT 4849
Kerma elastic
Cross Section
48-Cd-114
-98.83 To 9999. %
Min Ratio
Max Ratio
n-Cd114.tendl
n-Cd114.endfb8.0
Cross Section (barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
Incident Energy (eV)
33
48-Cd-114

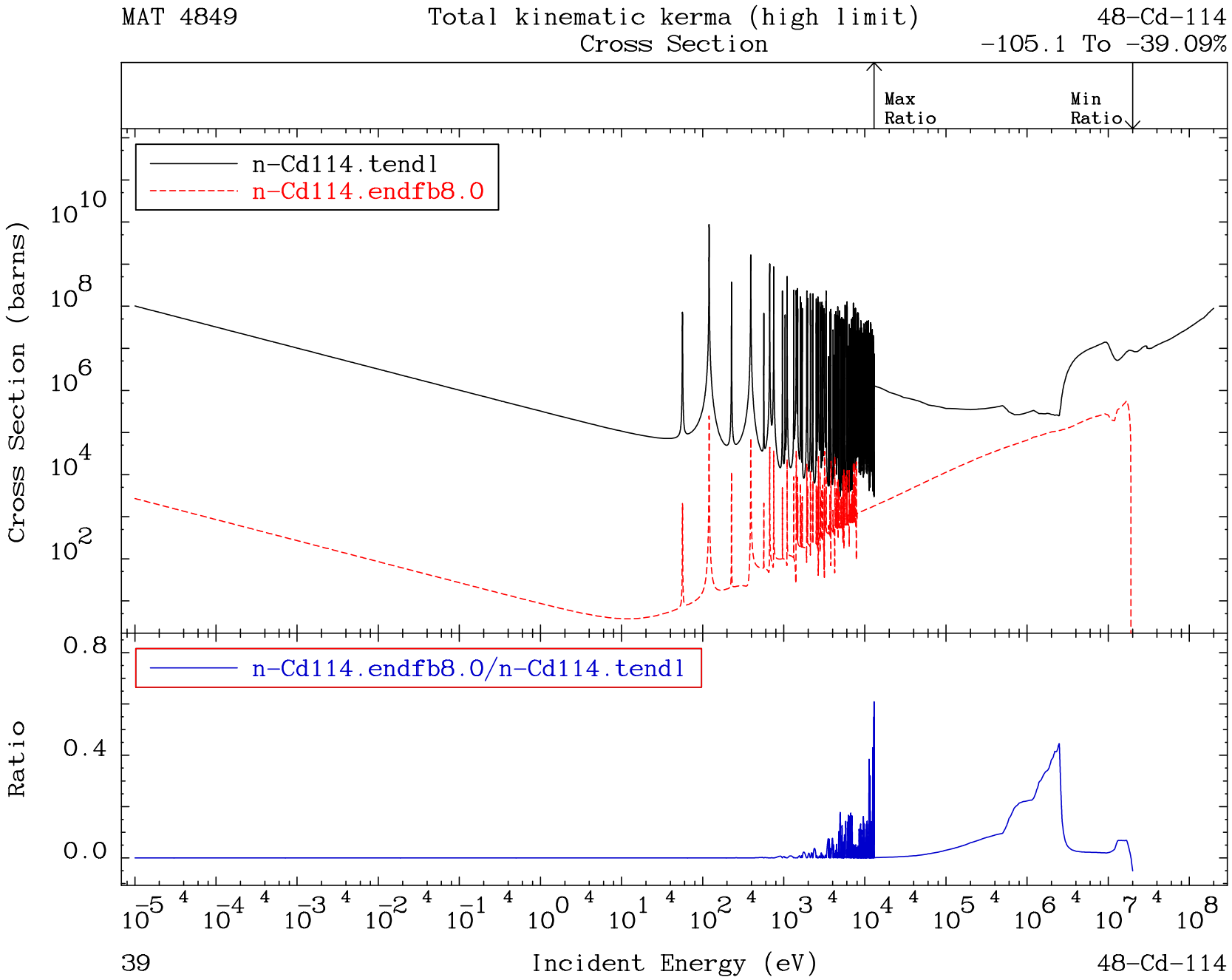

MAT 4849
Kerma non-elastic (all but mt2)
Cross Section
48-Cd-114
-99.97 To 9999. %
Min Ratio
Max Ratio
n-Cd114.tendl
n-Cd114.endfb8.0
Cross Section (barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
34
Incident Energy (eV)
48-Cd-114

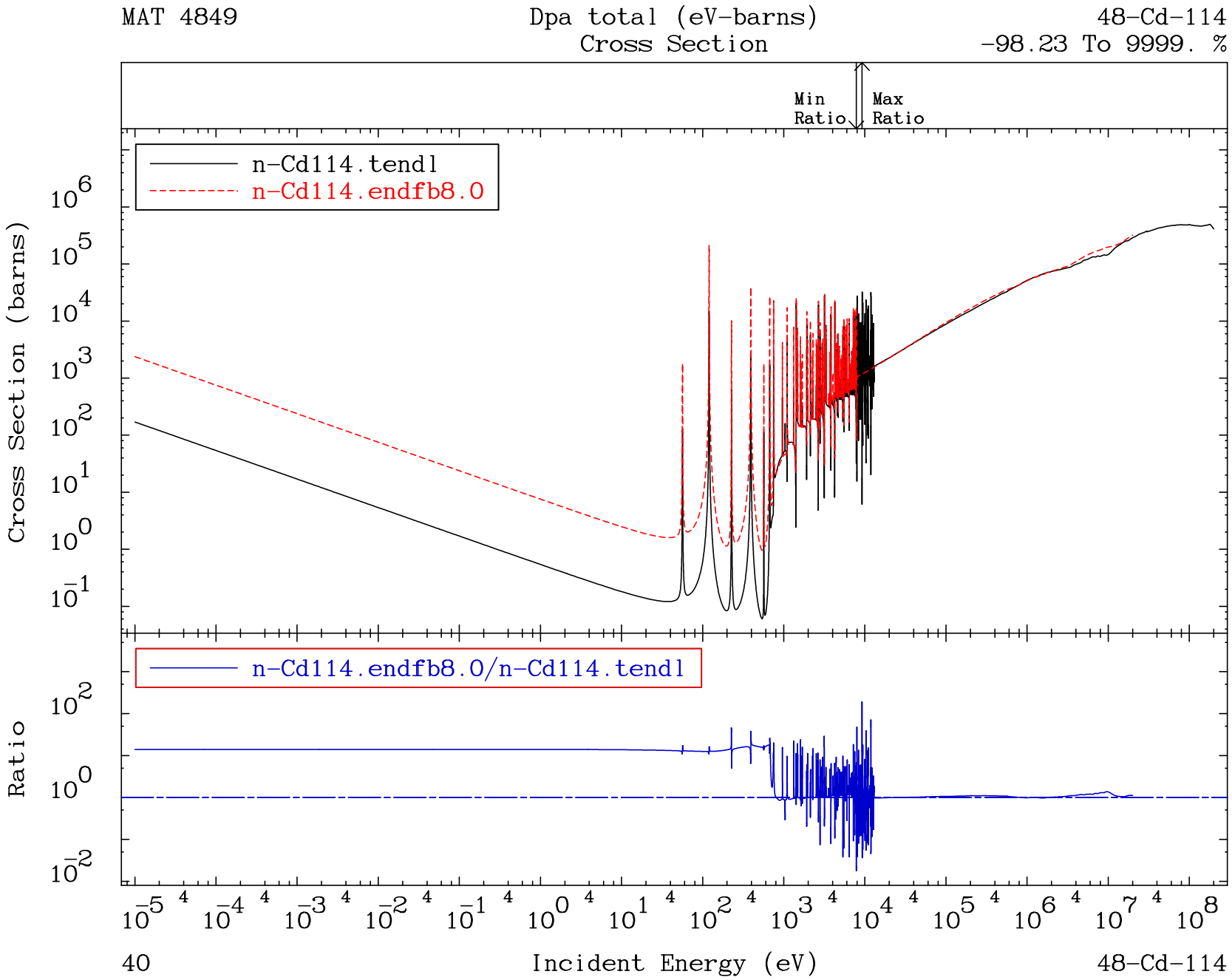

MAT 4849
Kerma inelastic (mt51-91)
Cross Section
48-Cd-114
-20.52 To 113.3 %
Min Ratio
Max Ratio
n-Cd114.tendl Threshold 600.00 keV
n-Cd114.endfb8.0 Threshold 580.00 keV
Cross Section (barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
Incident Energy (eV)
35
48-Cd-114

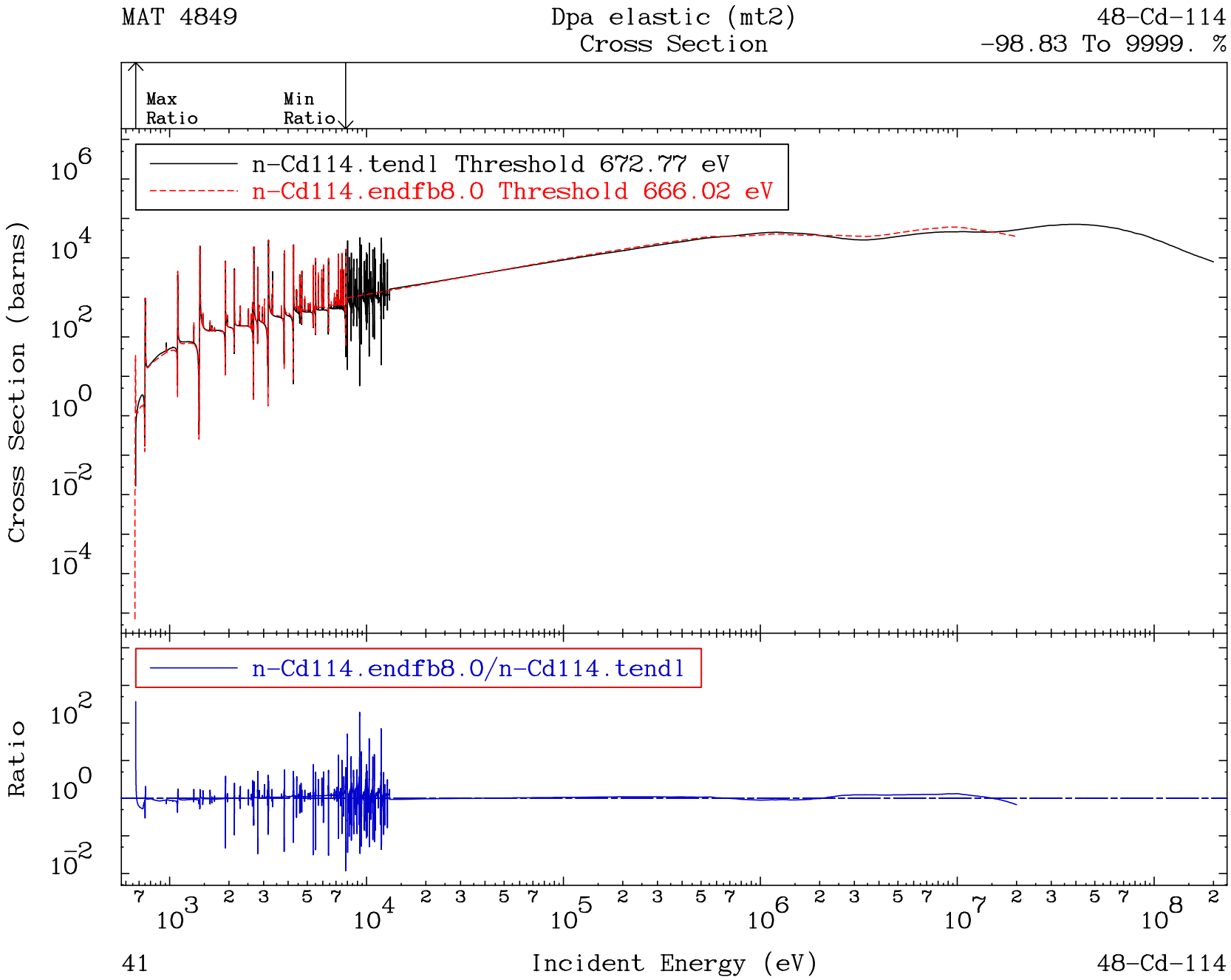

MAT 4849
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
48-Cd-114
-20.52 To 113.3 %
Min Ratio
Max Ratio
n-Cd114.tendl
n-Cd114.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
2.4
1.8
1.2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
36
Incident Energy (eV)
48-Cd-114

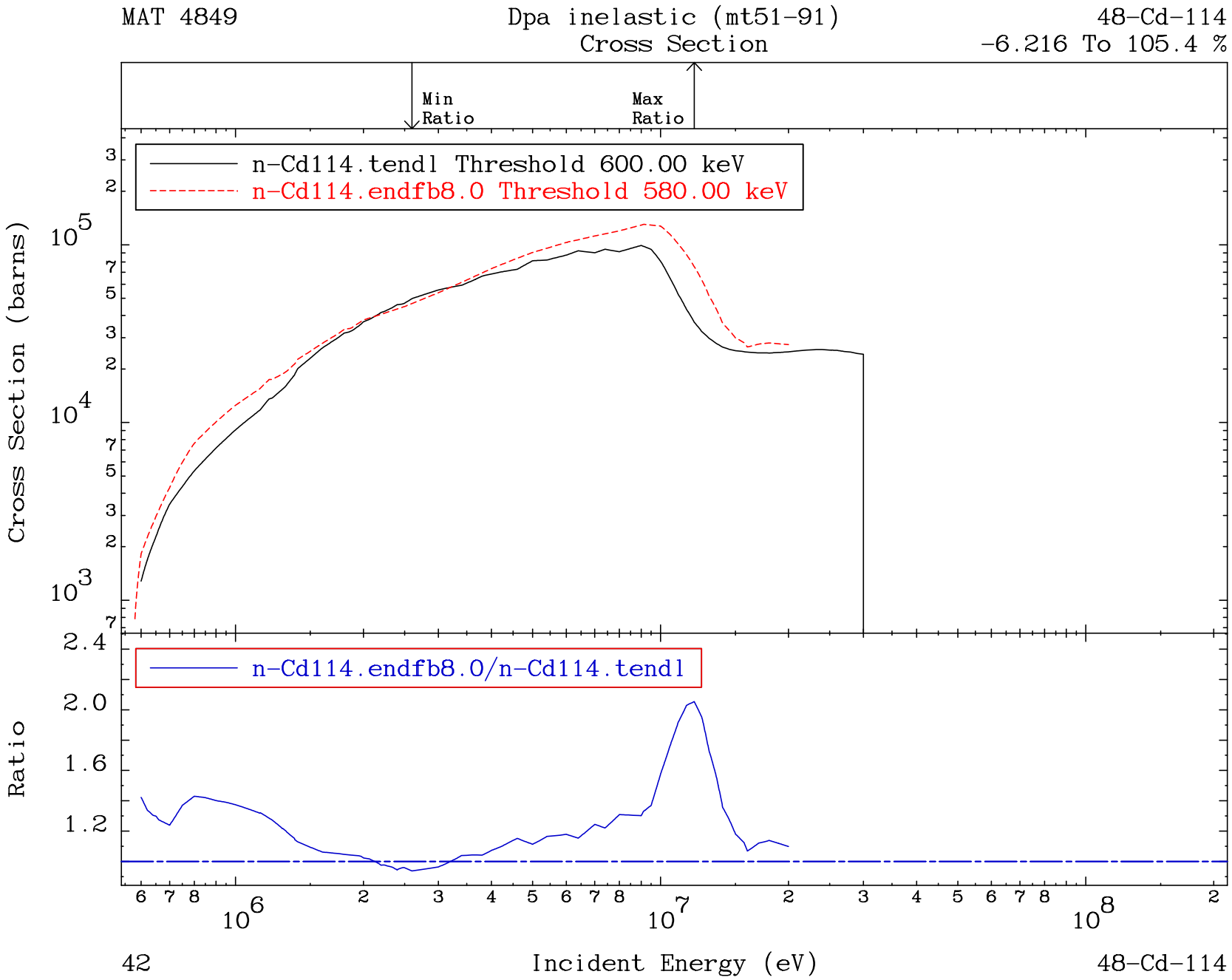

MAT 4849
Kerma capture (mt102)
Cross Section
48-Cd-114
-99.97 To 9999. %
Min Ratio
Max Ratio
n-Cd114.tendl
n-Cd114.endfb8.0
Cross Section (barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
37
Incident Energy (eV)
48-Cd-114

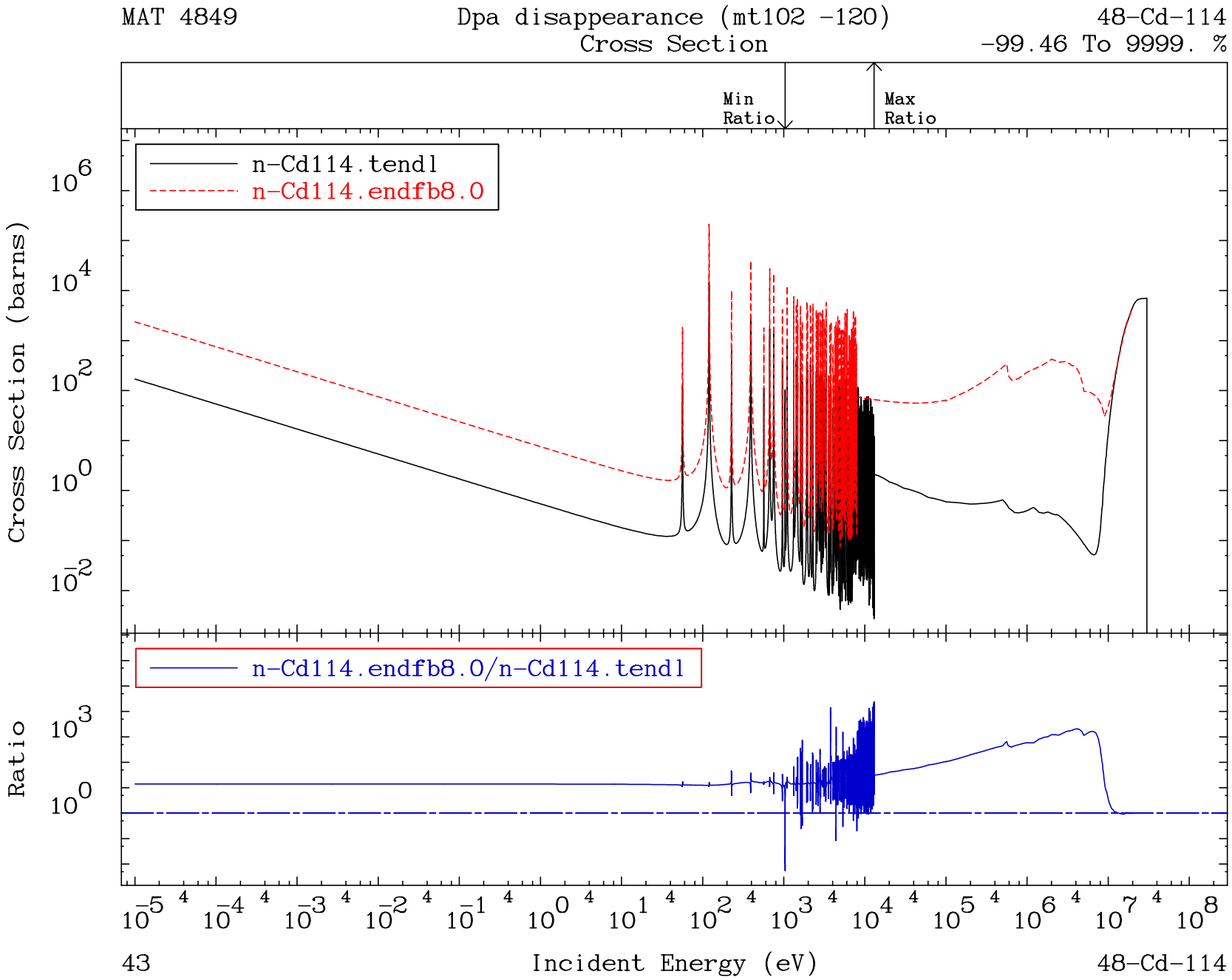

MAT 4849
Total photon (eV-barns)
Cross Section
48-Cd-114
-99.97 To 9999. %
Min Ratio
Max Ratio
n-Cd114.tendl
n-Cd114.endfb8.0
Cross Section (Giga-barns)
0
2
4
6
8
10
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
10^{4}
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
38
Incident Energy (eV)
48-Cd-114


MAT 4849
Total kinematic kerma (high limit)
Cross Section
48-Cd-114
-105.1 To -39.09%
Max Ratio
Min Ratio
n-Cd114.tendl
n-Cd114.endfb8.0
Cross Section (barns)
10^10
10^8
10^6
10^4
10^2
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
0.8
0.4
0.0
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
39
Incident Energy (eV)
48-Cd-114


MAT 4849
Dpa total (eV-barns)
Cross Section
48-Cd-114
-98.23 To 9999. %
Min Ratio
Max Ratio
n-Cd114.tendl
n-Cd114.endfb8.0
Cross Section (barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
Incident Energy (eV)
40
48-Cd-114


MAT 4849
Dpa elastic (mt2)
Cross Section
48-Cd-114
-98.83 To 9999. %
Max Ratio
Min Ratio
n-Cd114.tendl Threshold 672.77 eV
n-Cd114.endfb8.0 Threshold 666.02 eV
Cross Section (barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
Incident Energy (eV)
41
48-Cd-114


MAT 4849
Dpa inelastic (mt51-91)
Cross Section
48-Cd-114
-6.216 To 105.4 %
Min Ratio
Max Ratio
n-Cd114.tendl Threshold 600.00 keV
n-Cd114.endfb8.0 Threshold 580.00 keV
Cross Section (barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
Incident Energy (eV)
42
48-Cd-114


MAT 4849
Dpa disappearance (mt102 -120)
Cross Section
48-Cd-114
-99.46 To 9999. %
Min Ratio
Max Ratio
n-Cd114.tendl
n-Cd114.endfb8.0
Cross Section (barns)
n-Cd114.endfb8.0/n-Cd114.tendl
Ratio
Incident Energy (eV)
43
48-Cd-114