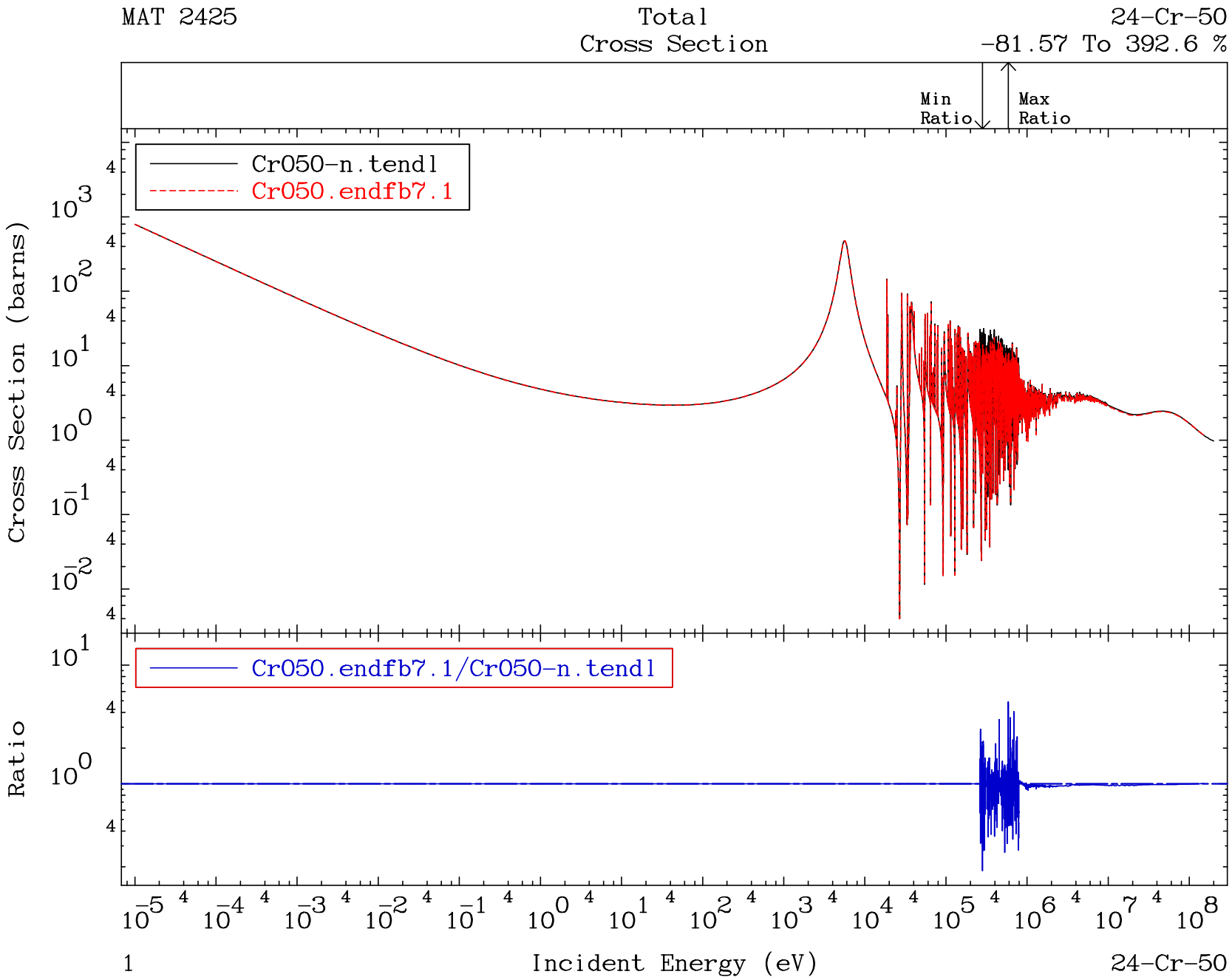
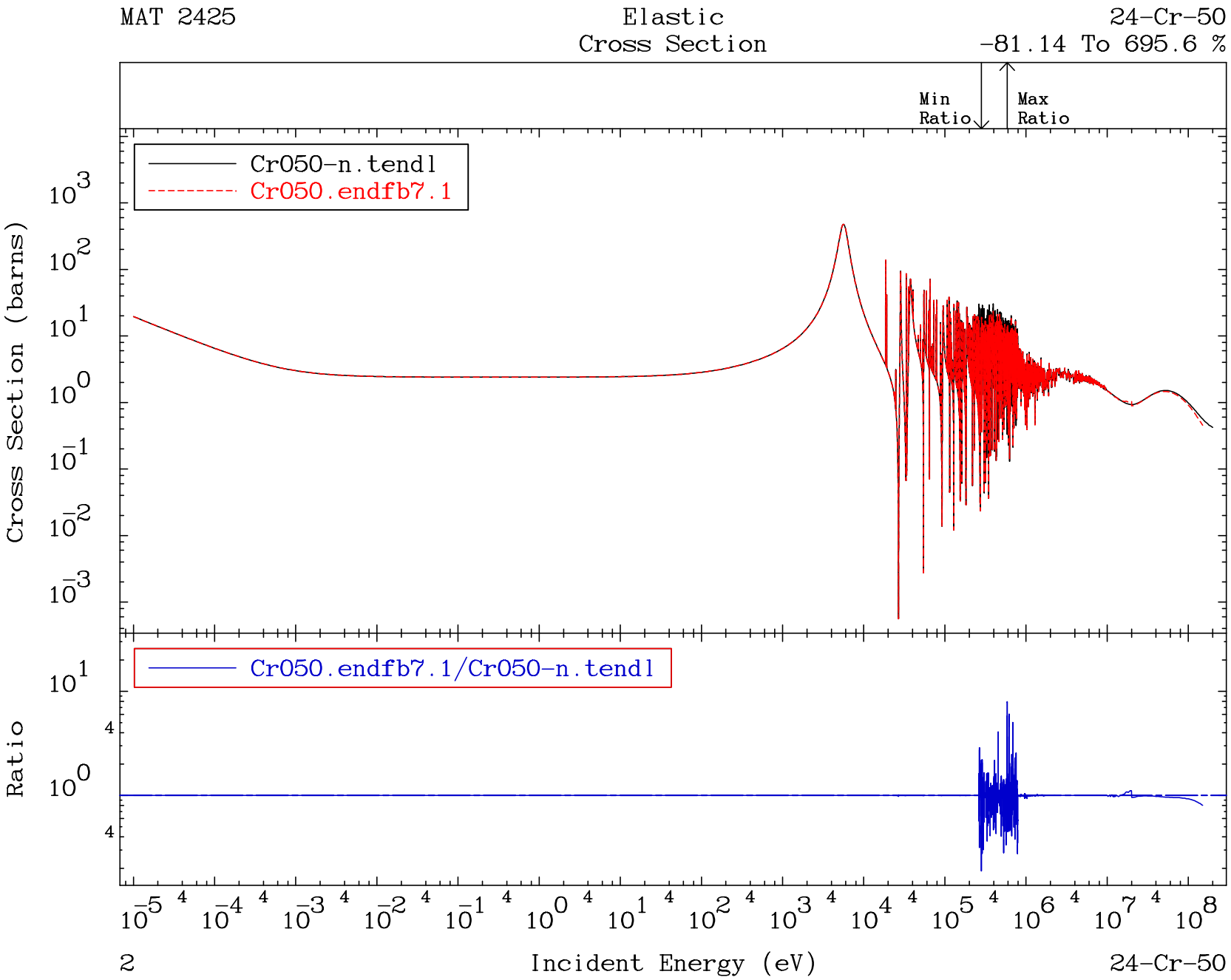
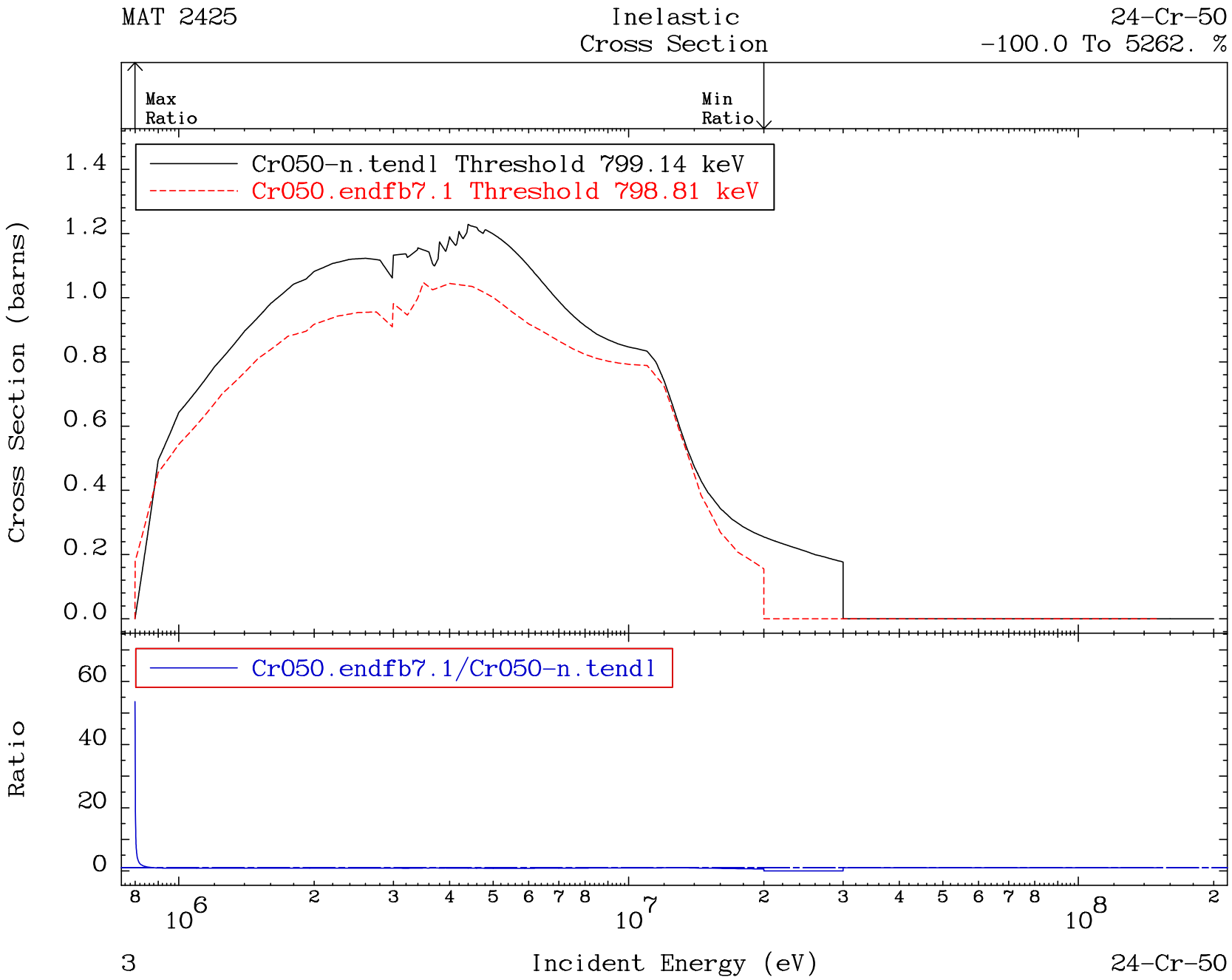
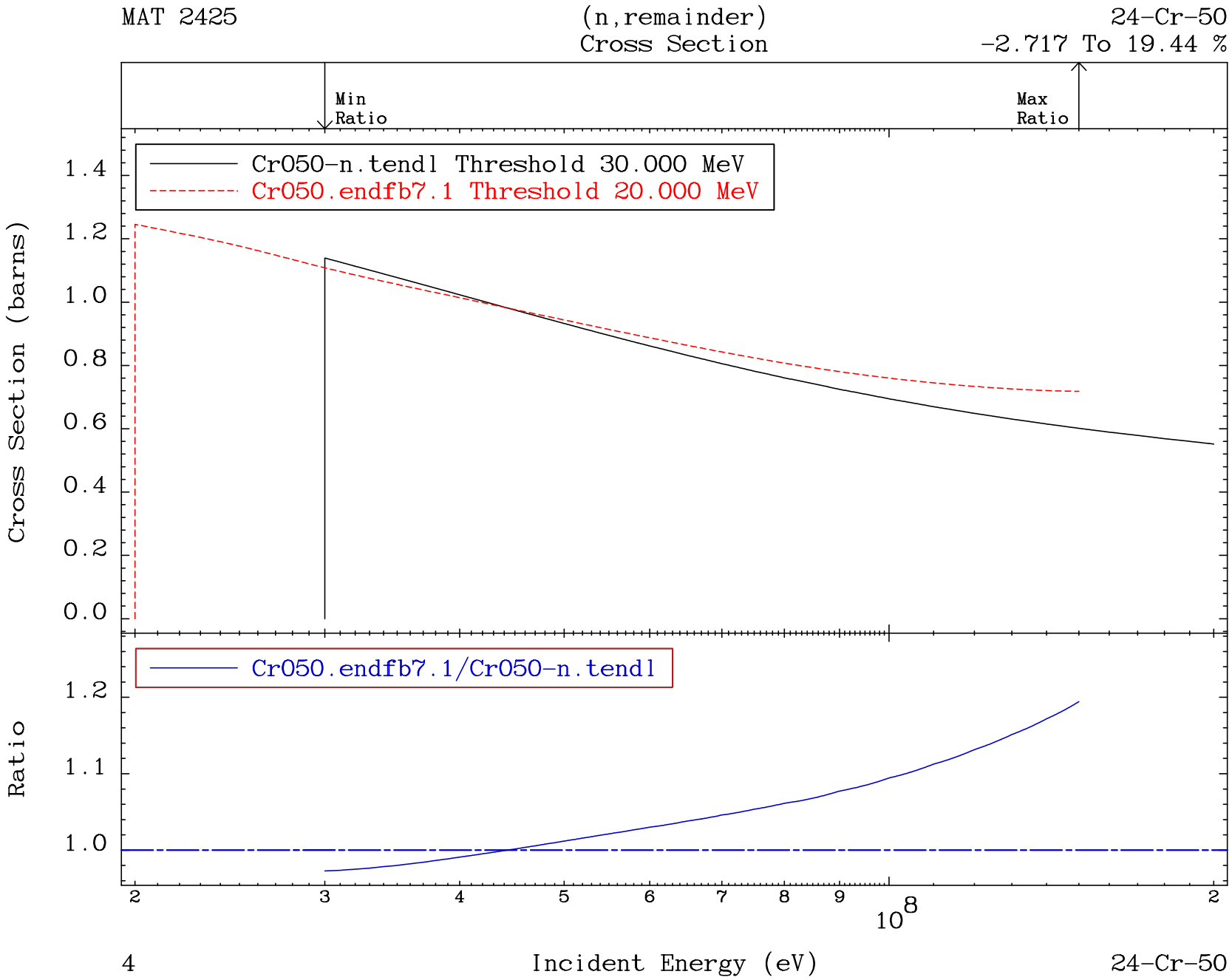
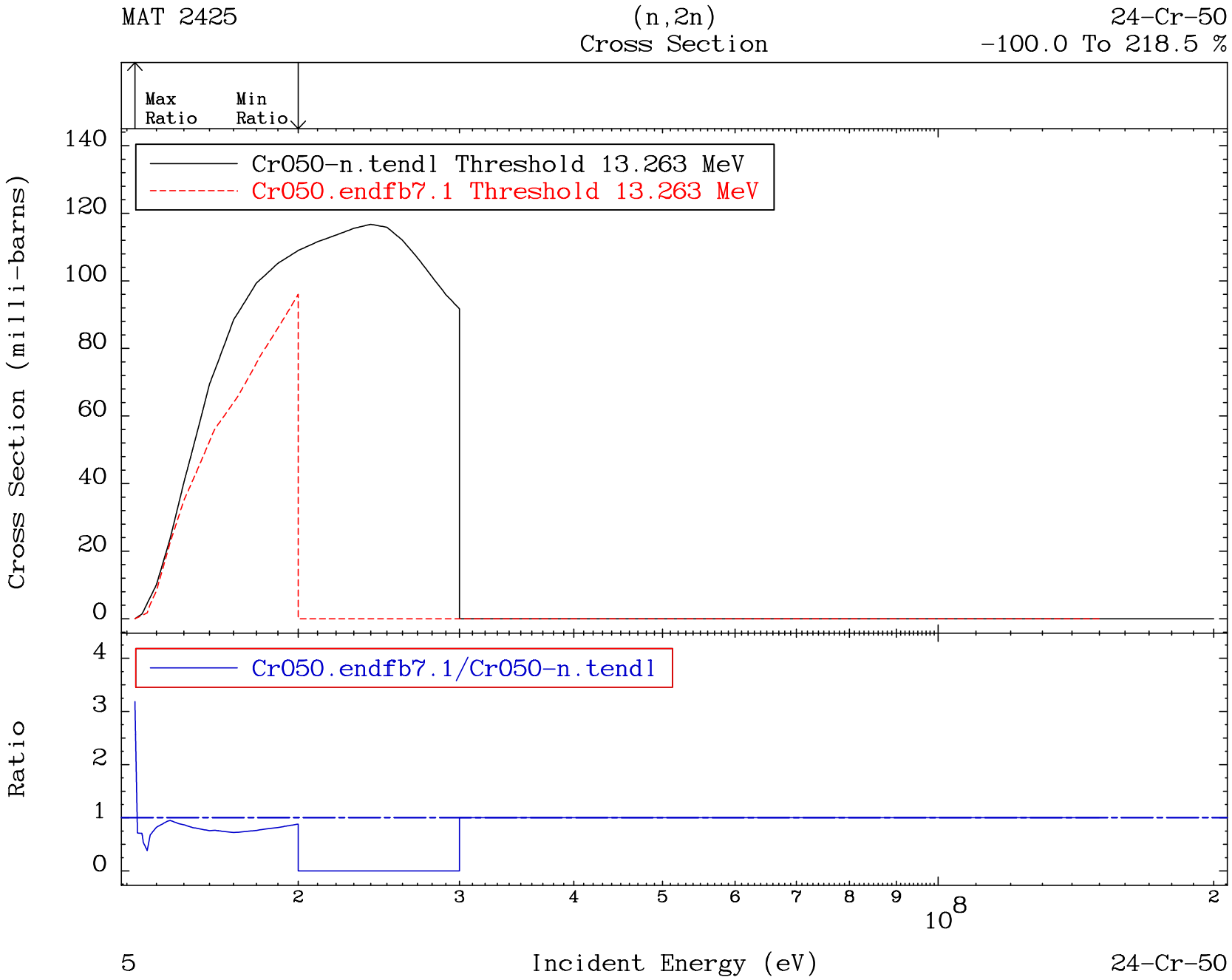
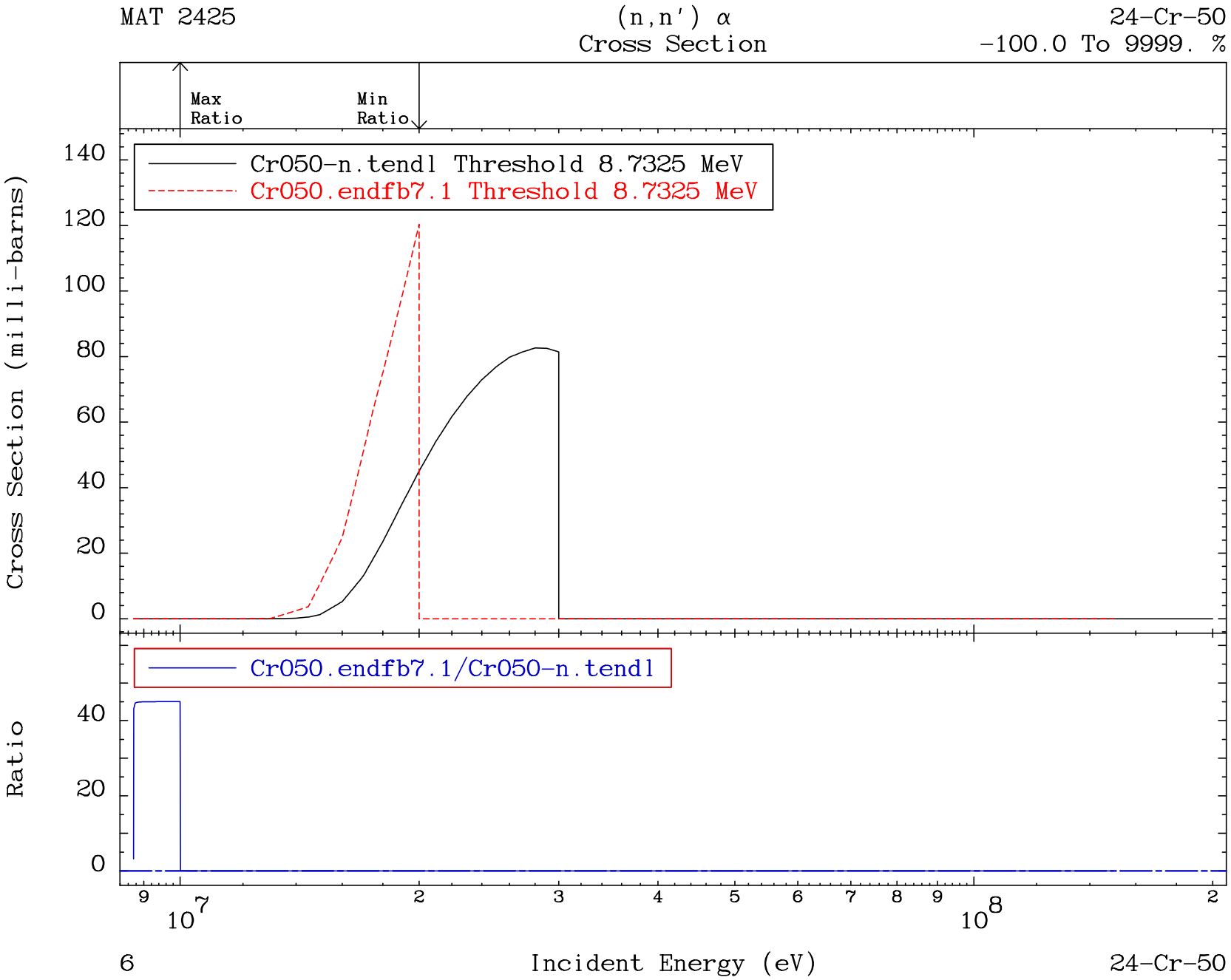

MAT 2425
Total
Cross Section
24-Cr-50
-81.57 To 392.6 %
Min Ratio
Max Ratio
Cr050-n.tendl
Cr050.endfb7.1
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
1
24-Cr-50

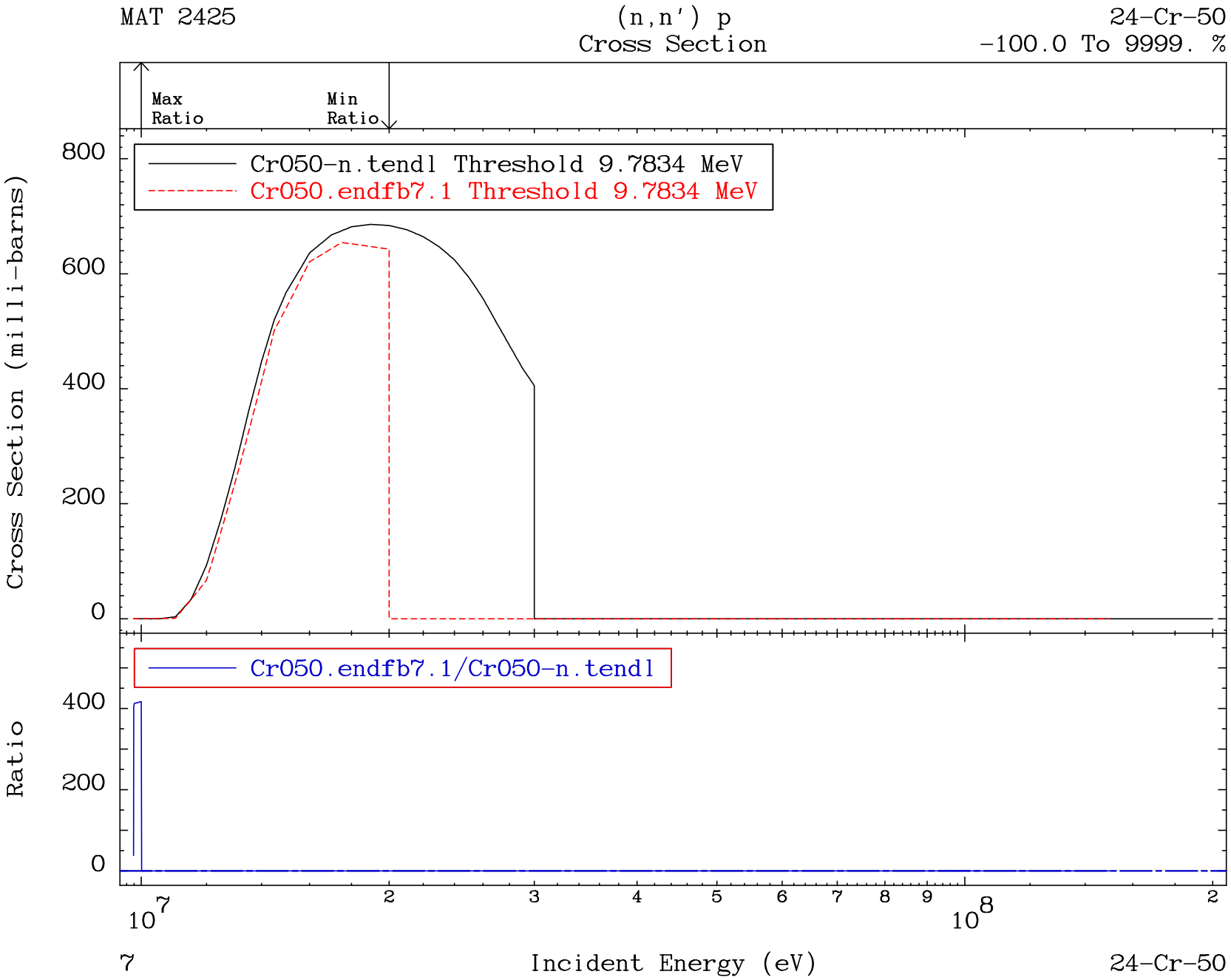

MAT 2425
Elastic
Cross Section
24-Cr-50
-81.14 To 695.6 %
Min Ratio
Max Ratio
Cr050-n.tendl
Cr050.endfb7.1
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
2
24-Cr-50

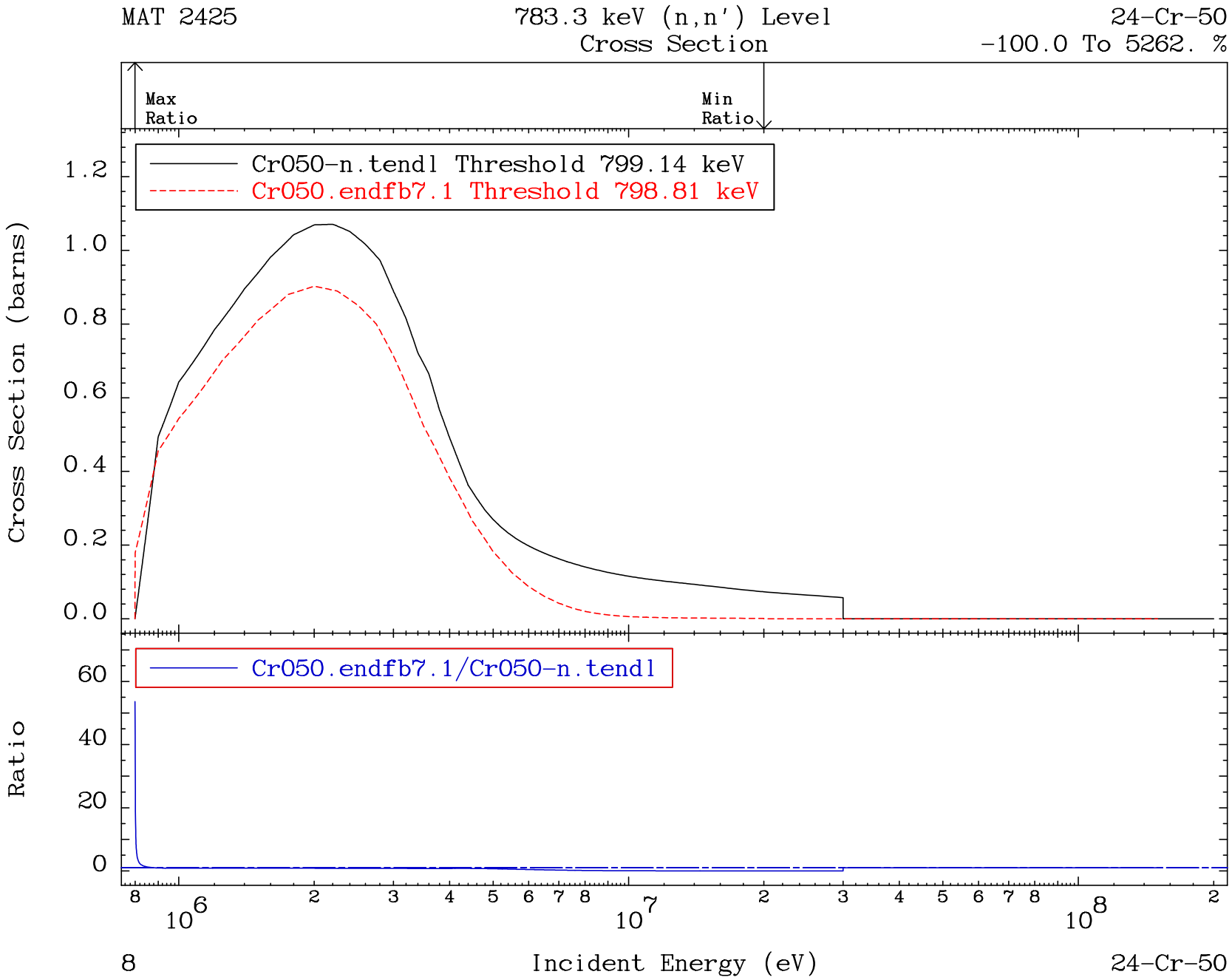

MAT 2425
Inelastic
Cross Section
24-Cr-50
-100.0 To 5262. %
Max
Ratio
Min
Ratio
Cr050-n.tendl Threshold 799.14 keV
Cr050.endfb7.1 Threshold 798.81 keV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
60
40
20
0
8
2
3
4
5
6
7
8
10^6
10^7
10^8
3
Incident Energy (eV)
24-Cr-50

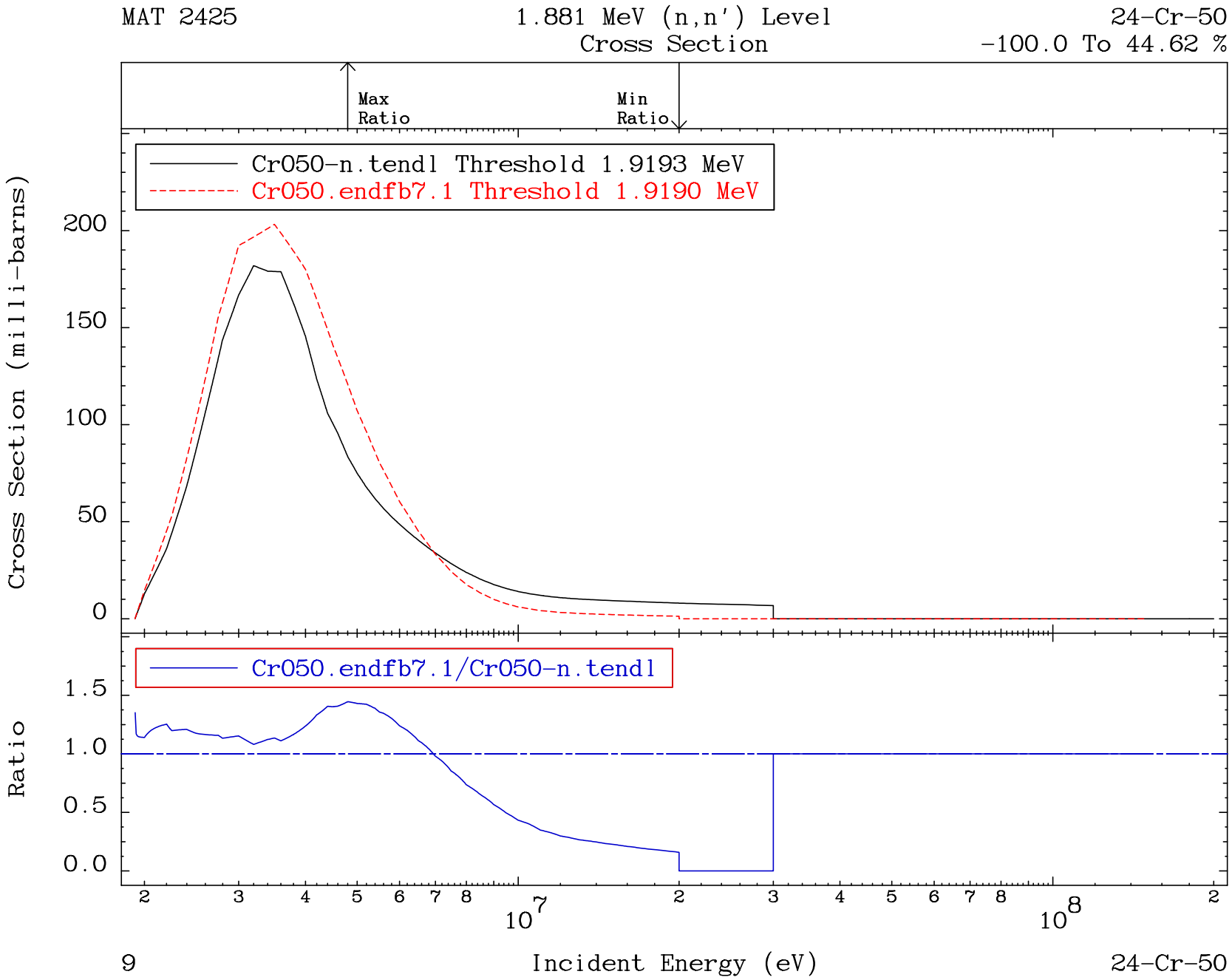

MAT 2425
(n,remainder)
Cross Section
24-Cr-50
-2.717 To 19.44 %
Min
Ratio
Max
Ratio
Cr050-n.tendl Threshold 30.000 MeV
Cr050.endfb7.1 Threshold 20.000 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
24-Cr-50

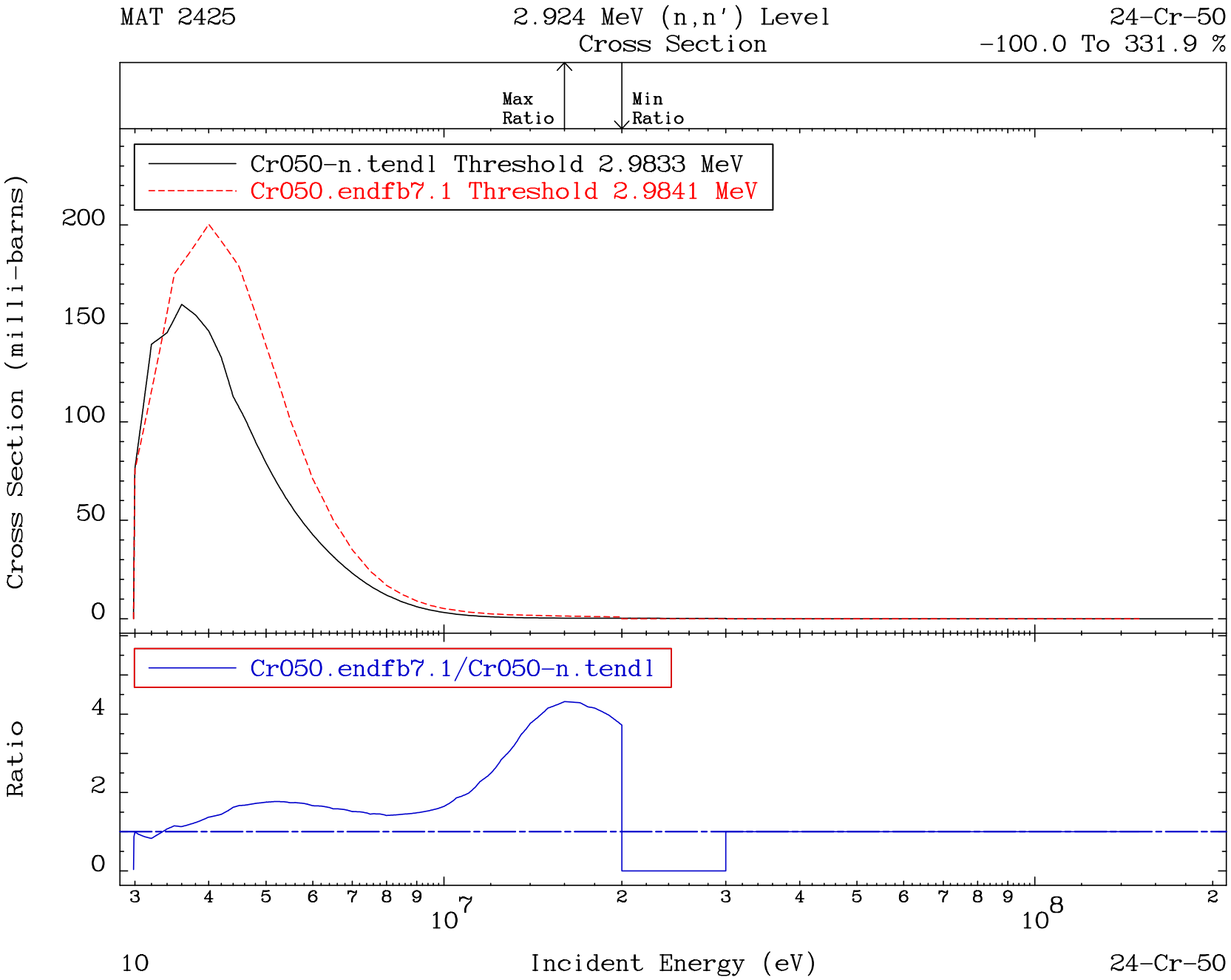

MAT 2425
(n,2n)
Cross Section
24-Cr-50
-100.0 To 218.5 %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 13.263 MeV
Cr050.endfb7.1 Threshold 13.263 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
4
3
2
1
0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
24-Cr-50

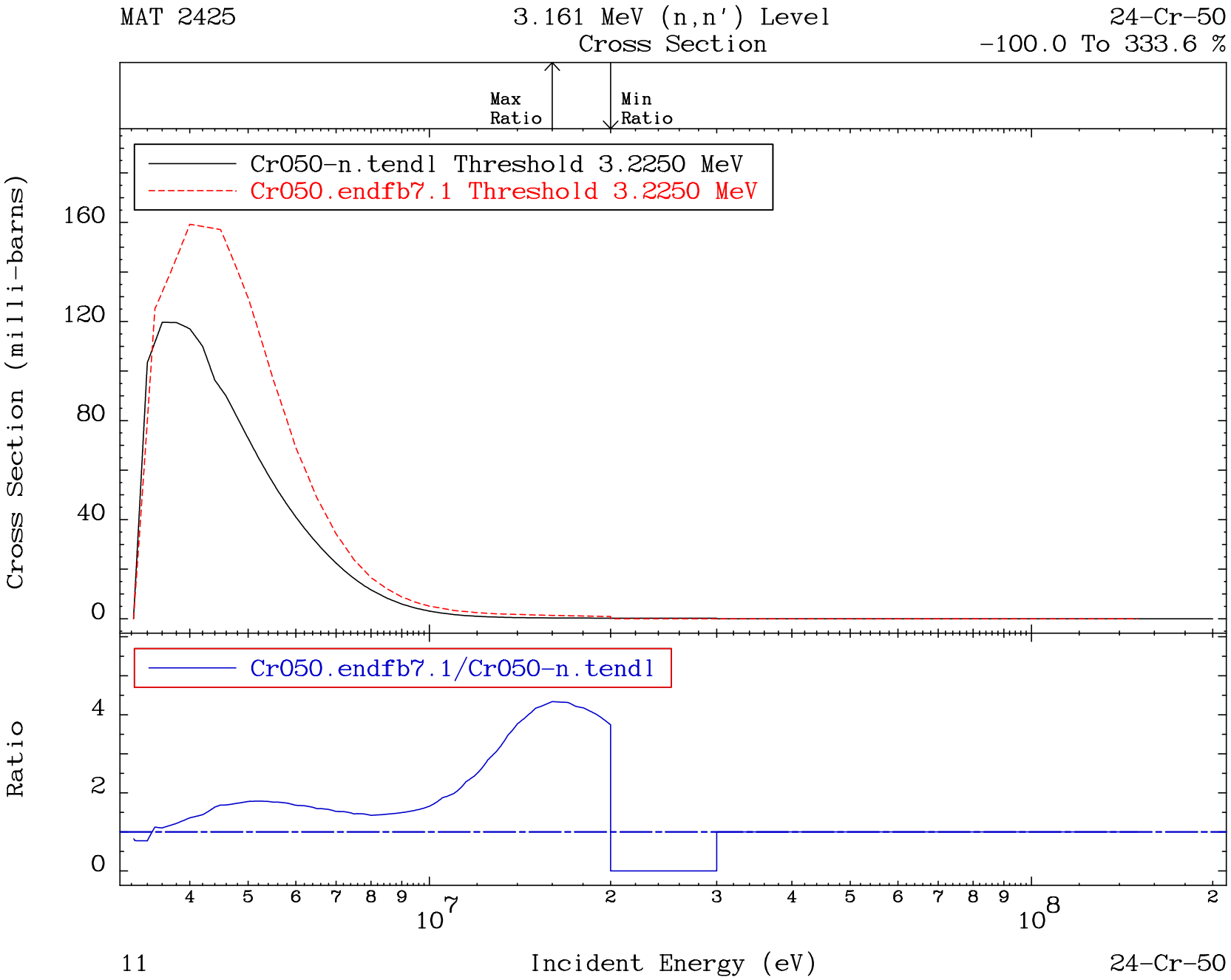

MAT 2425
(n,n') α
Cross Section
24-Cr-50
-100.0 To 9999. %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 8.7325 MeV
Cr050.endfb7.1 Threshold 8.7325 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
40
20
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
24-Cr-50

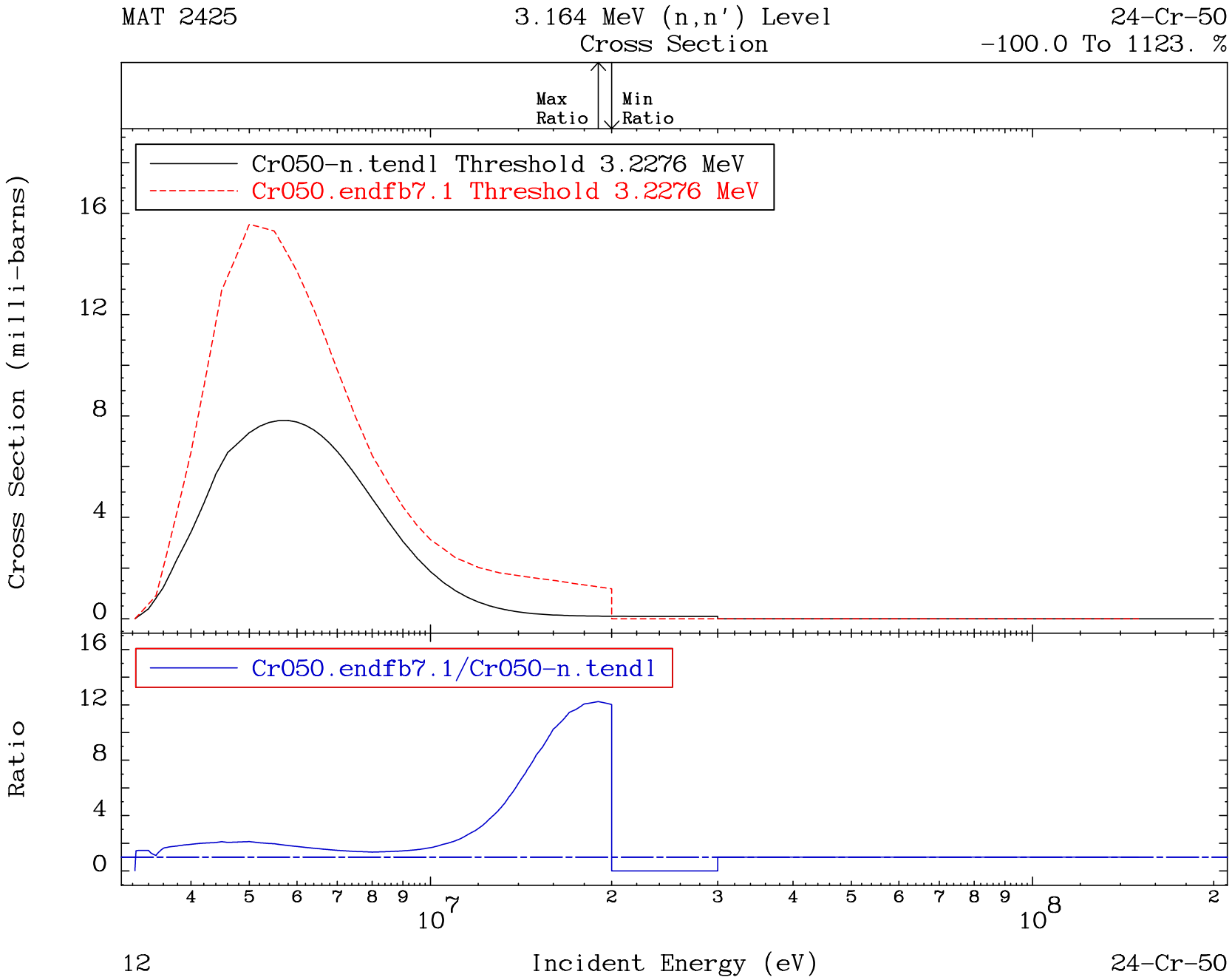

MAT 2425
(n,n') p
Cross Section
24-Cr-50
-100.0 To 9999. %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 9.7834 MeV
Cr050.endfb7.1 Threshold 9.7834 MeV
Cross Section (milli-barns)
800
600
400
200
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
400
200
0
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
24-Cr-50

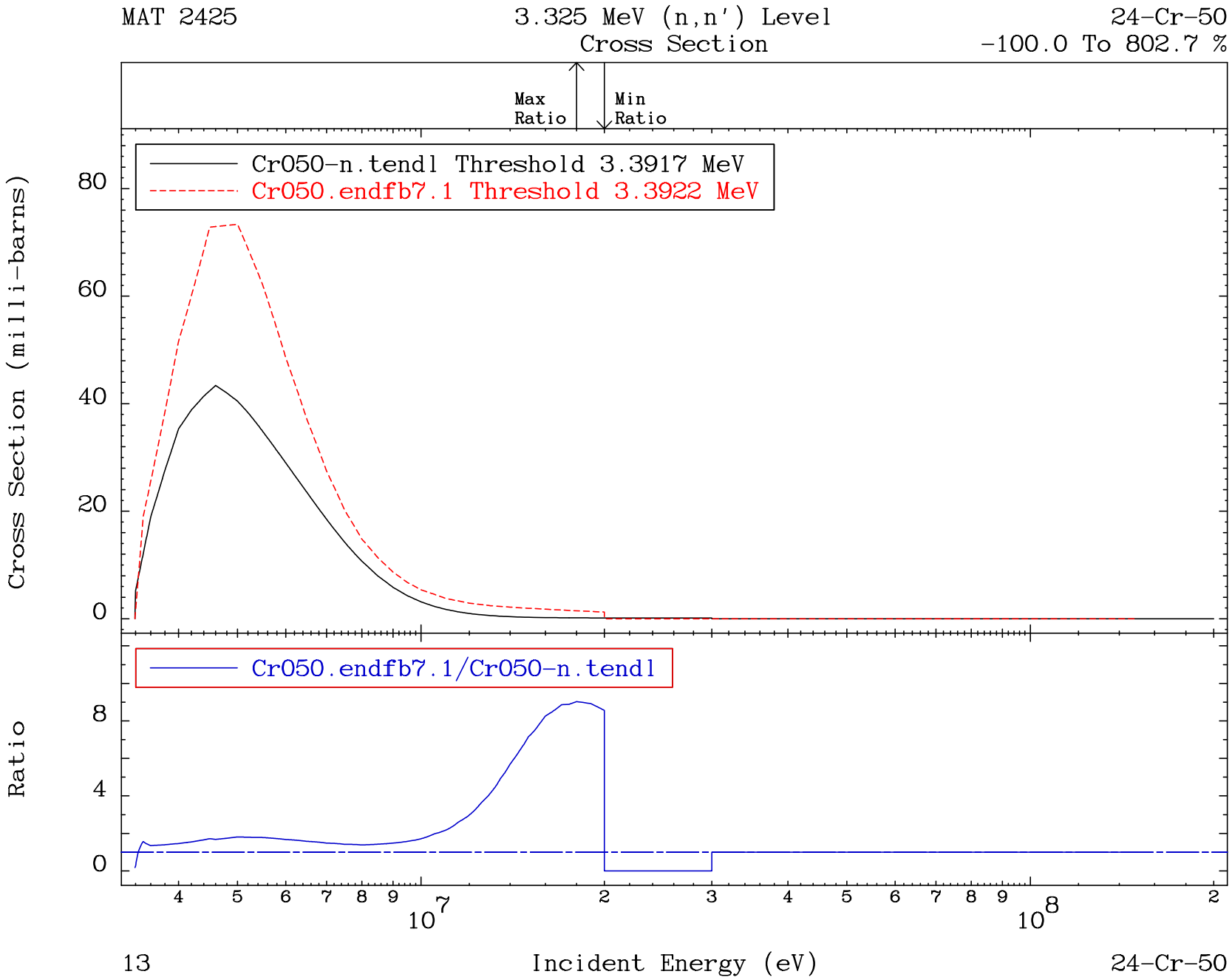

MAT 2425
783.3 keV (n,n') Level
Cross Section
24-Cr-50
-100.0 To 5262. %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 799.14 keV
Cr050.endfb7.1 Threshold 798.81 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
60
40
20
0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
8
Incident Energy (eV)
24-Cr-50

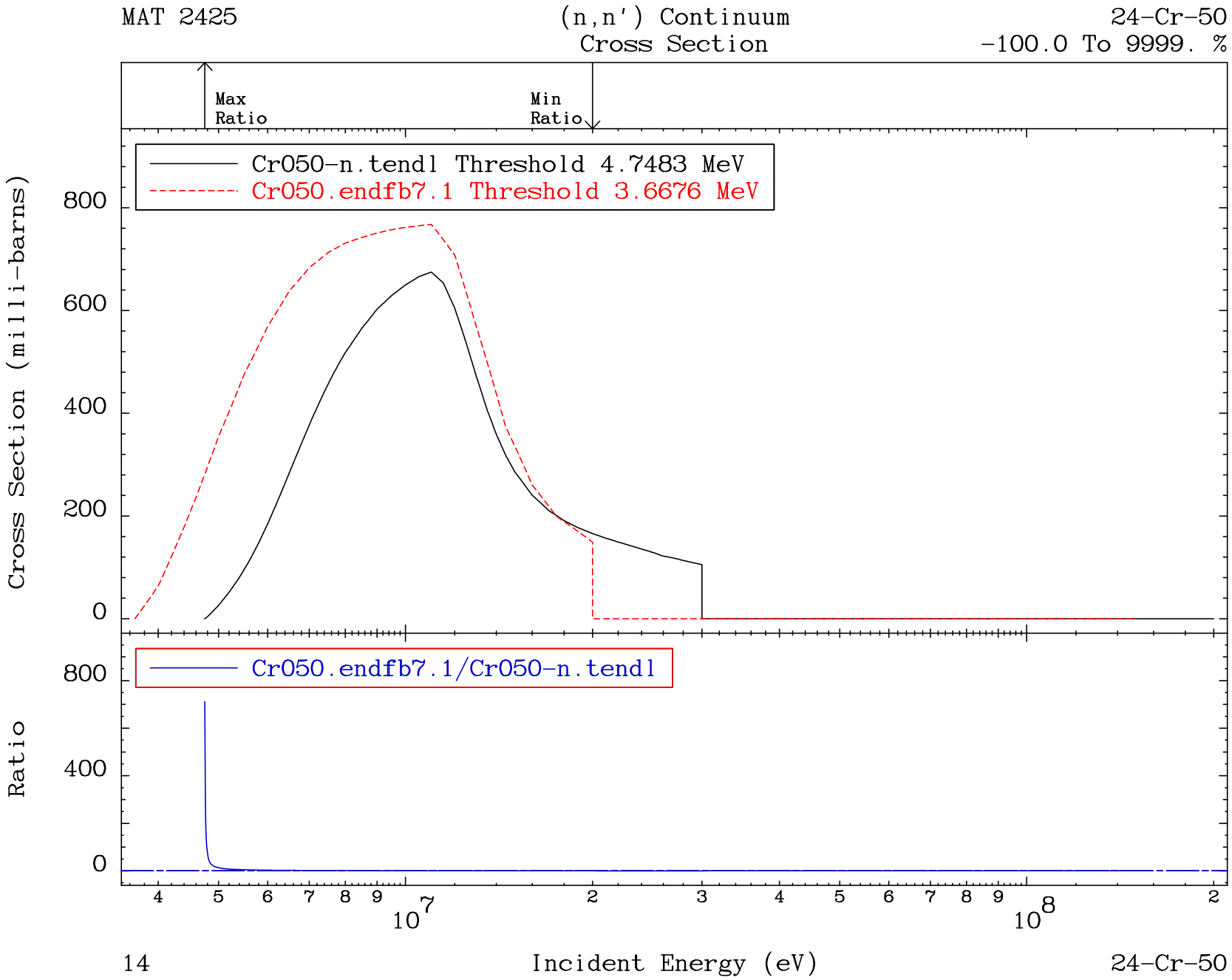

MAT 2425
1.881 MeV (n,n') Level
Cross Section
24-Cr-50
-100.0 To 44.62 %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 1.9193 MeV
Cr050.endfb7.1 Threshold 1.9190 MeV
Cross Section (milli-barns)
200
150
100
50
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
1.5
1.0
0.5
0.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
24-Cr-50

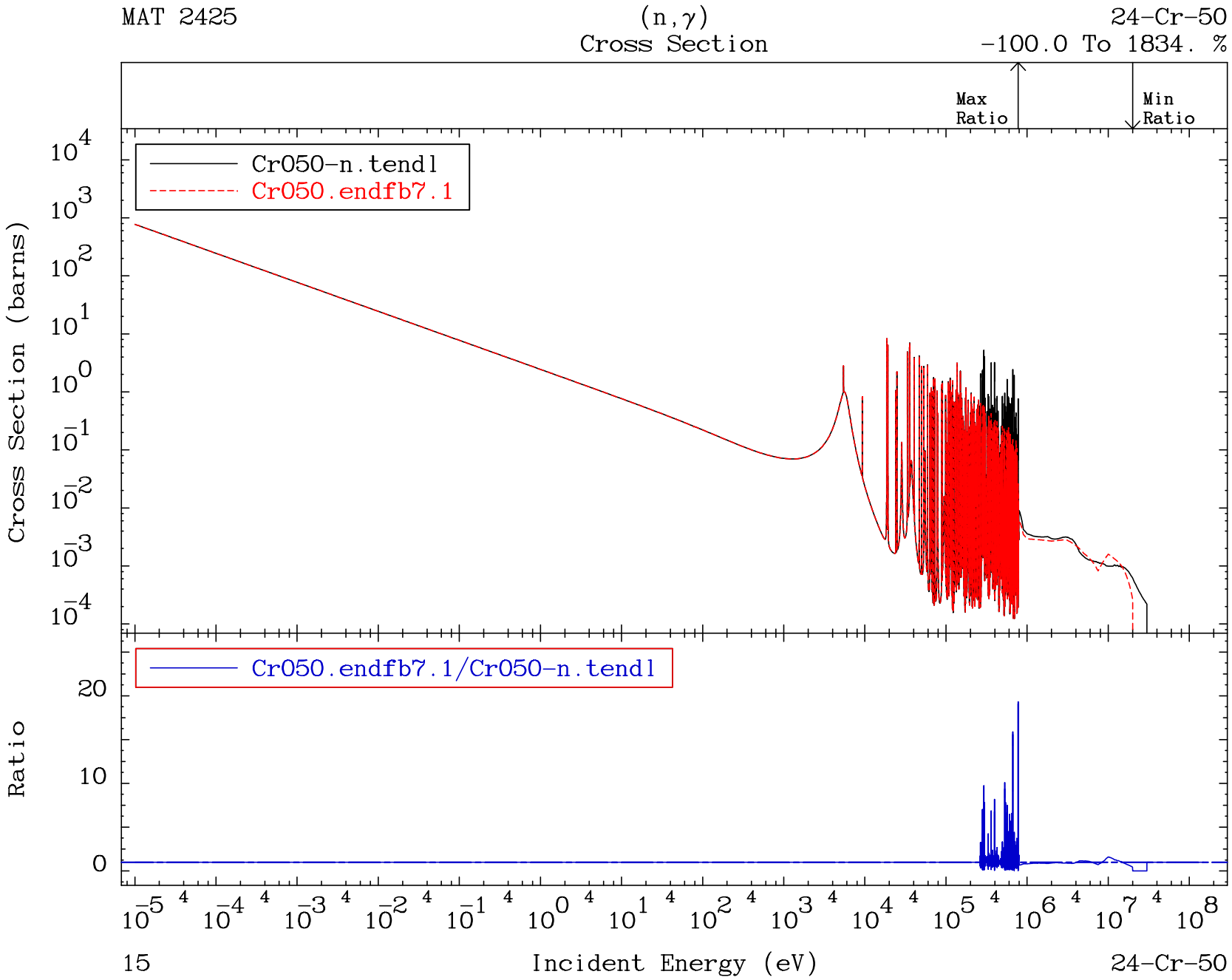

MAT 2425
2.924 MeV (n,n') Level
Cross Section
24-Cr-50
-100.0 To 331.9 %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 2.9833 MeV
Cr050.endfb7.1 Threshold 2.9841 MeV
Cross Section (milli-barns)
200
150
100
50
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
4
2
0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
24-Cr-50

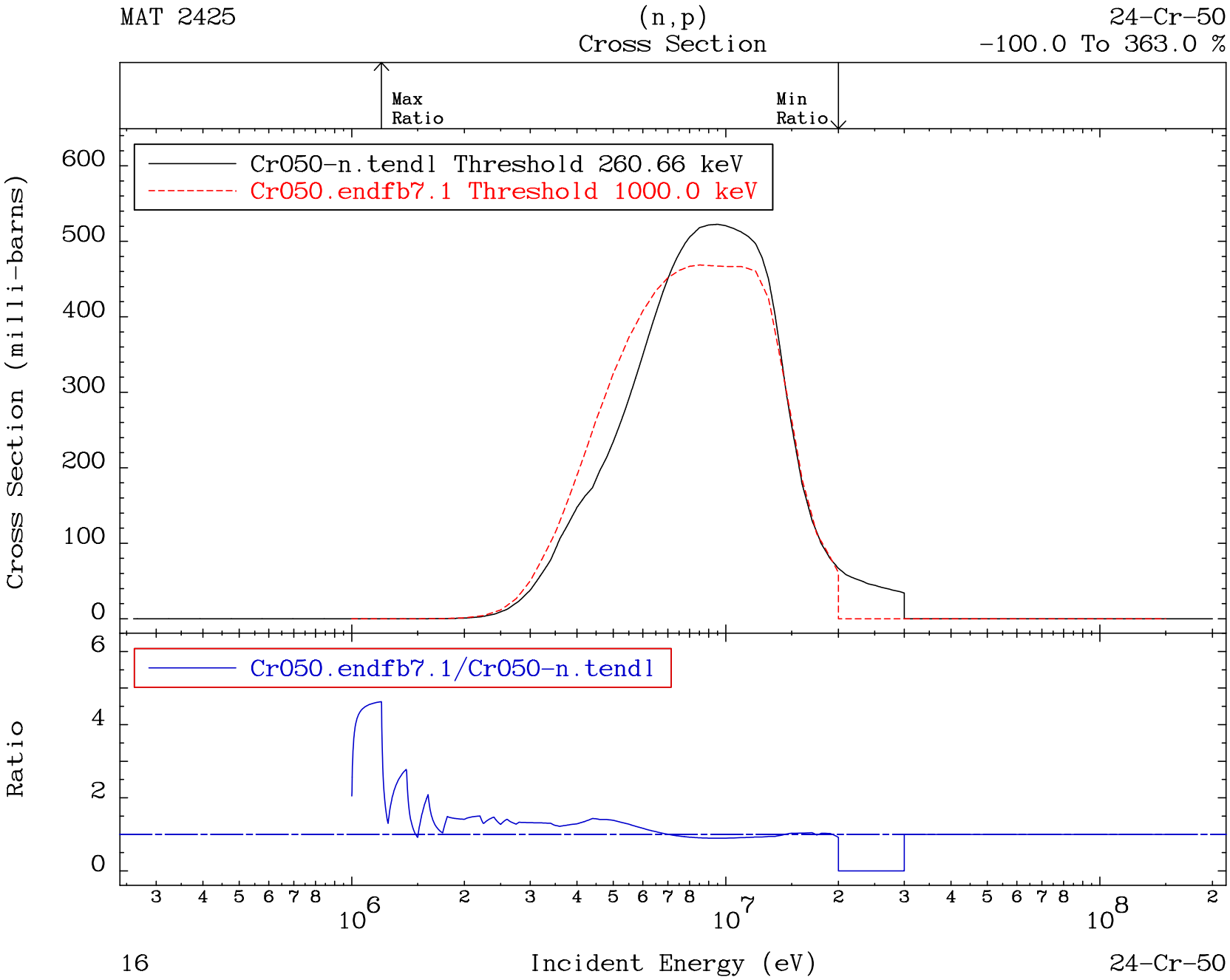

MAT 2425
3.161 MeV (n,n') Level
Cross Section
24-Cr-50
-100.0 To 333.6 %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 3.2250 MeV
Cr050.endfb7.1 Threshold 3.2250 MeV
Cross Section (milli-barns)
160
120
80
40
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
4
2
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
24-Cr-50

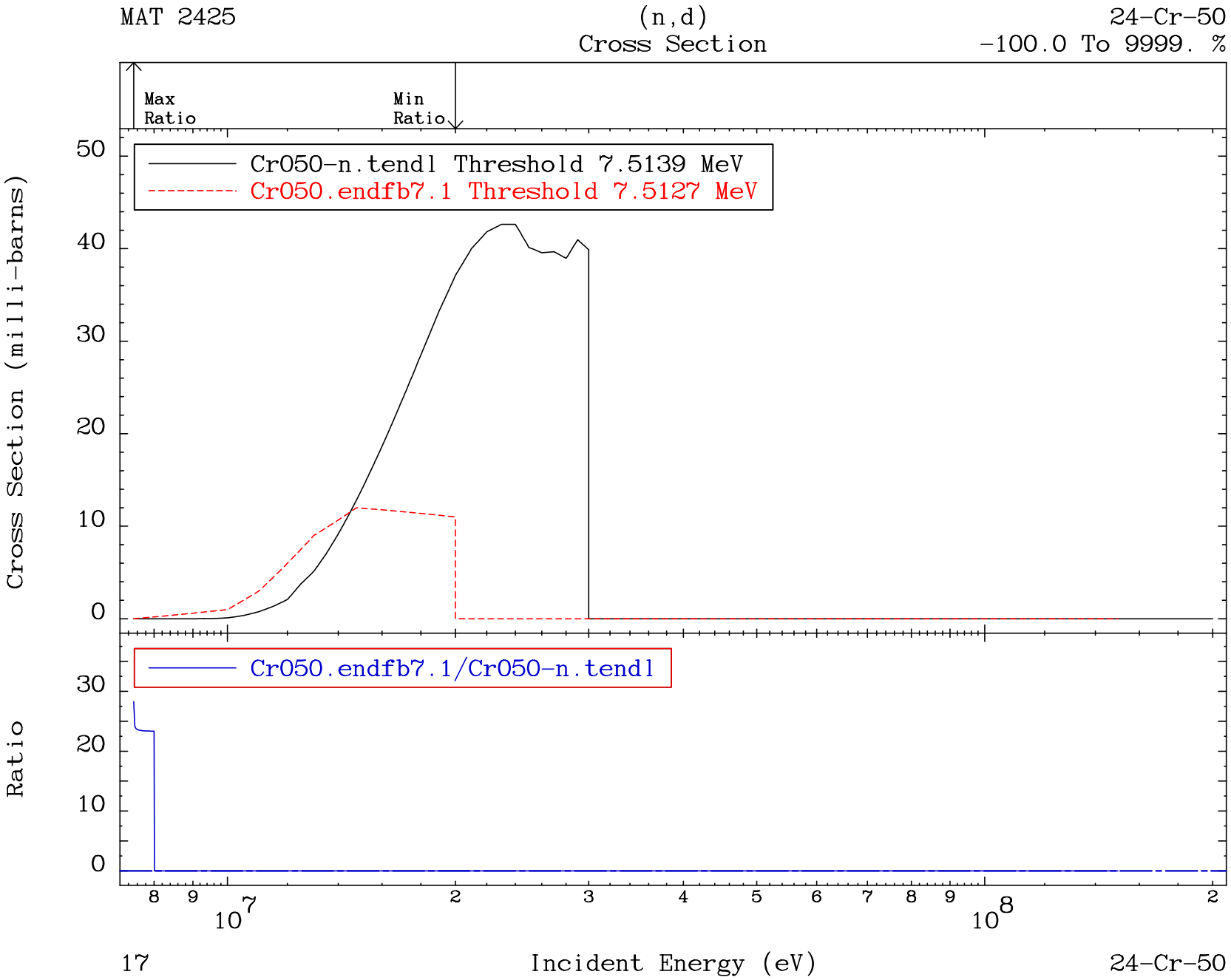

MAT 2425
3.164 MeV (n,n') Level
Cross Section
24-Cr-50
-100.0 To 1123. %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 3.2276 MeV
Cr050.endfb7.1 Threshold 3.2276 MeV
Cross Section (milli-barns)
16
12
8
4
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
16
12
8
4
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
24-Cr-50

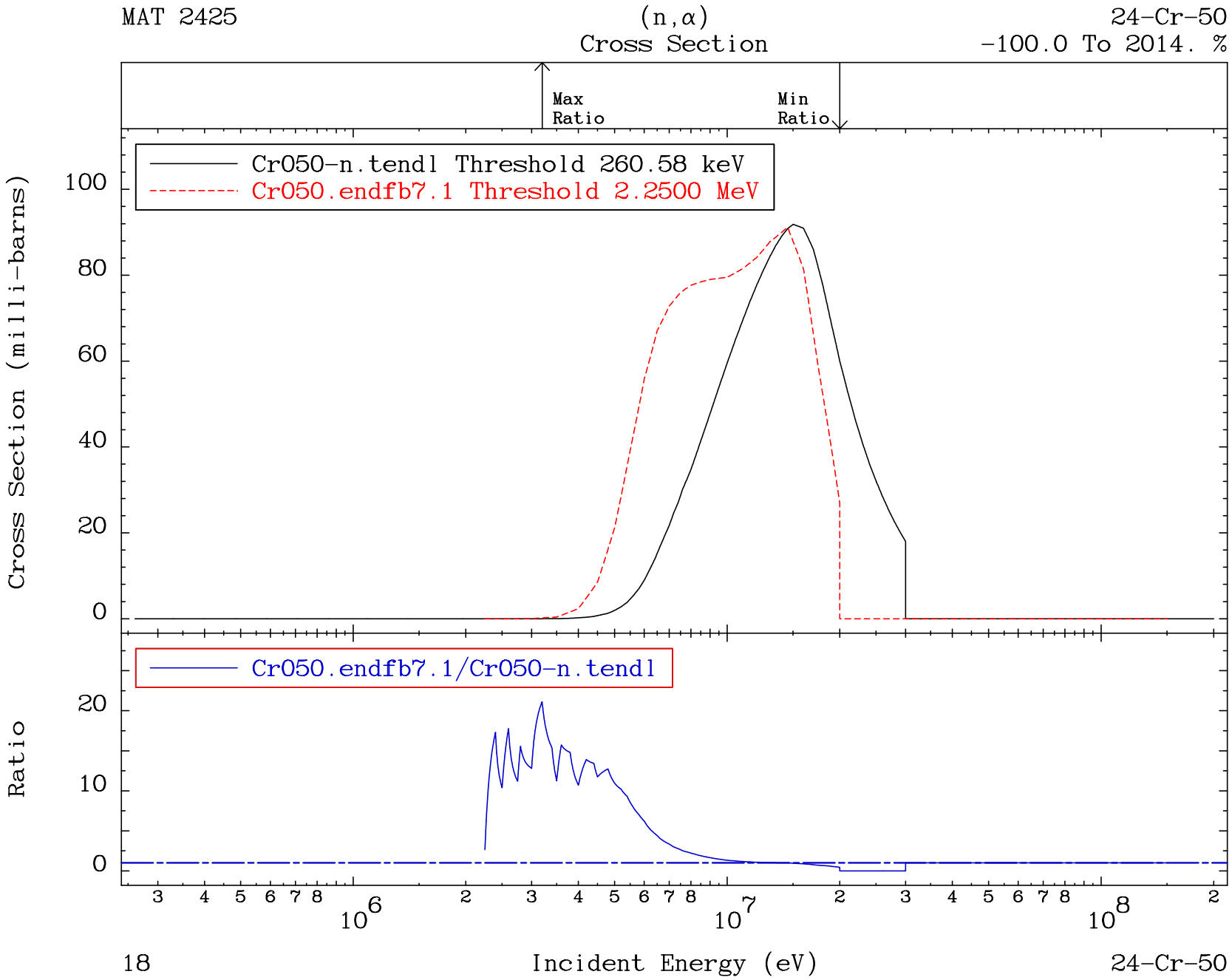

MAT 2425
3.325 MeV (n,n') Level
Cross Section
24-Cr-50
-100.0 To 802.7 %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 3.3917 MeV
Cr050.endfb7.1 Threshold 3.3922 MeV
Cross Section (milli-barns)
80
60
40
20
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
8
4
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
24-Cr-50

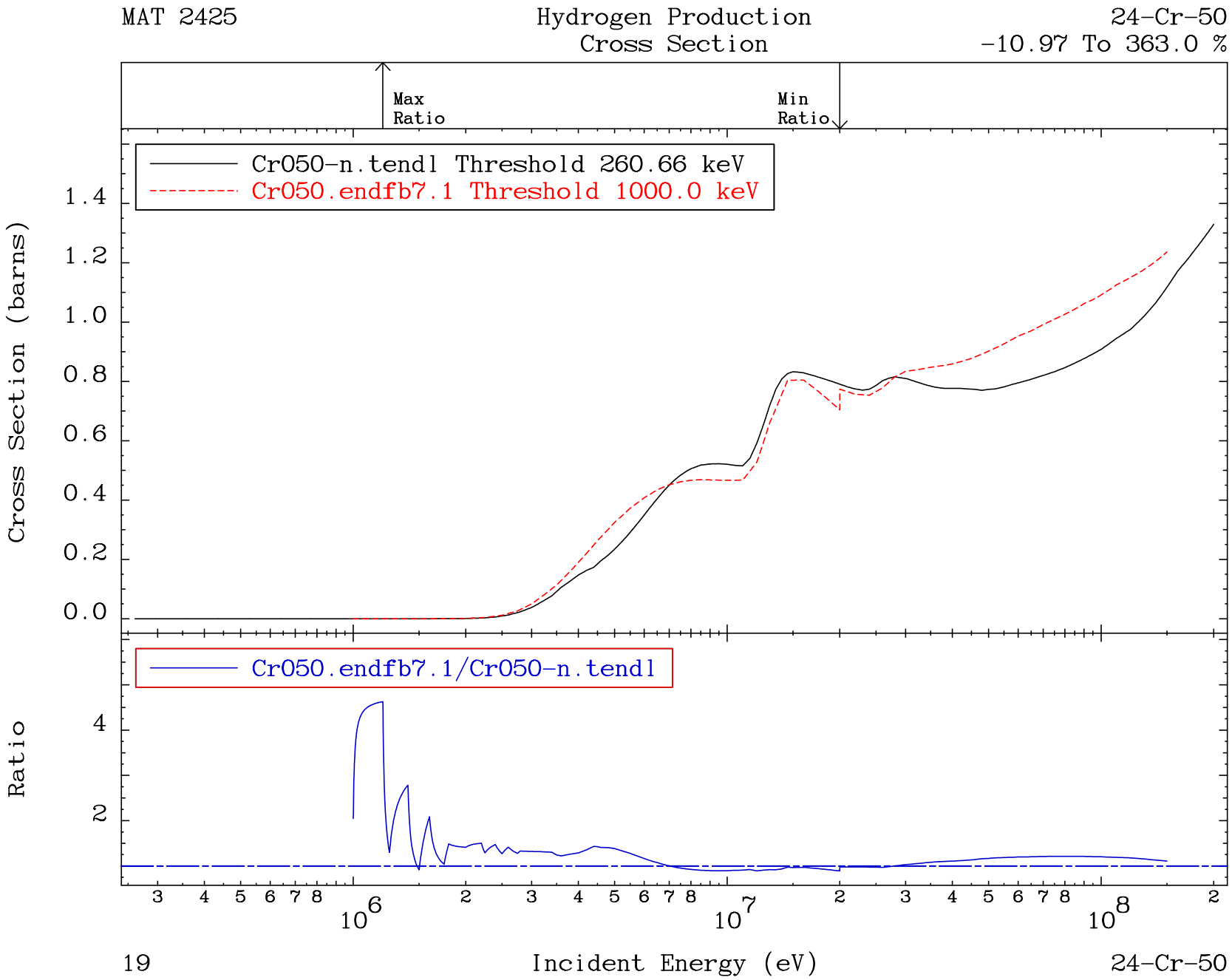

MAT 2425
(n,n') Continuum
Cross Section
24-Cr-50
-100.0 To 9999. %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 4.7483 MeV
Cr050.endfb7.1 Threshold 3.6676 MeV
Cross Section (milli-barns)
800
600
400
200
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
800
400
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
24-Cr-50

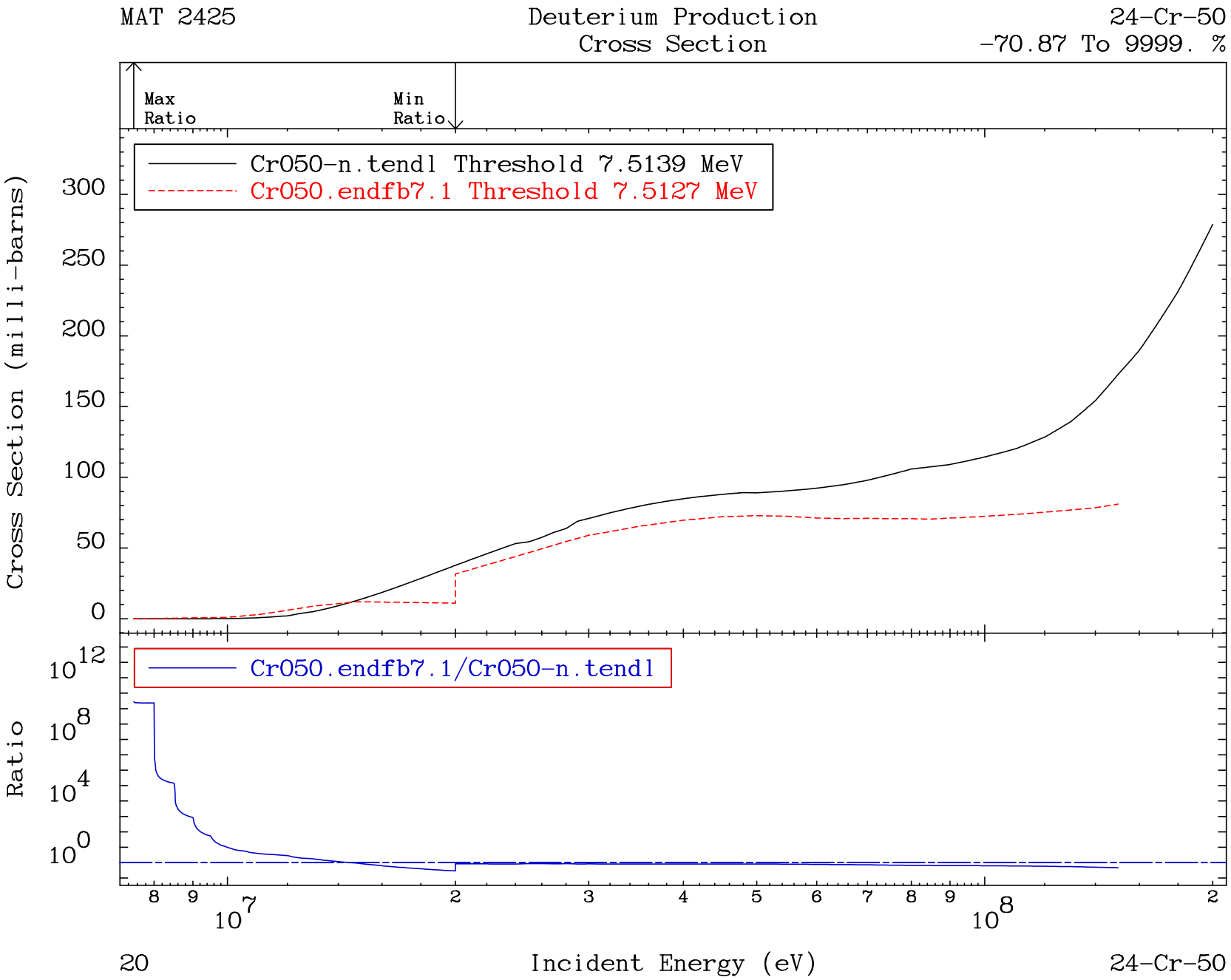

MAT 2425
(n,γ)
Cross Section
24-Cr-50
-100.0 To 1834. %
Max Ratio
Min Ratio
Cr050-n.tendl
Cr050.endfb7.1
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
15
24-Cr-50

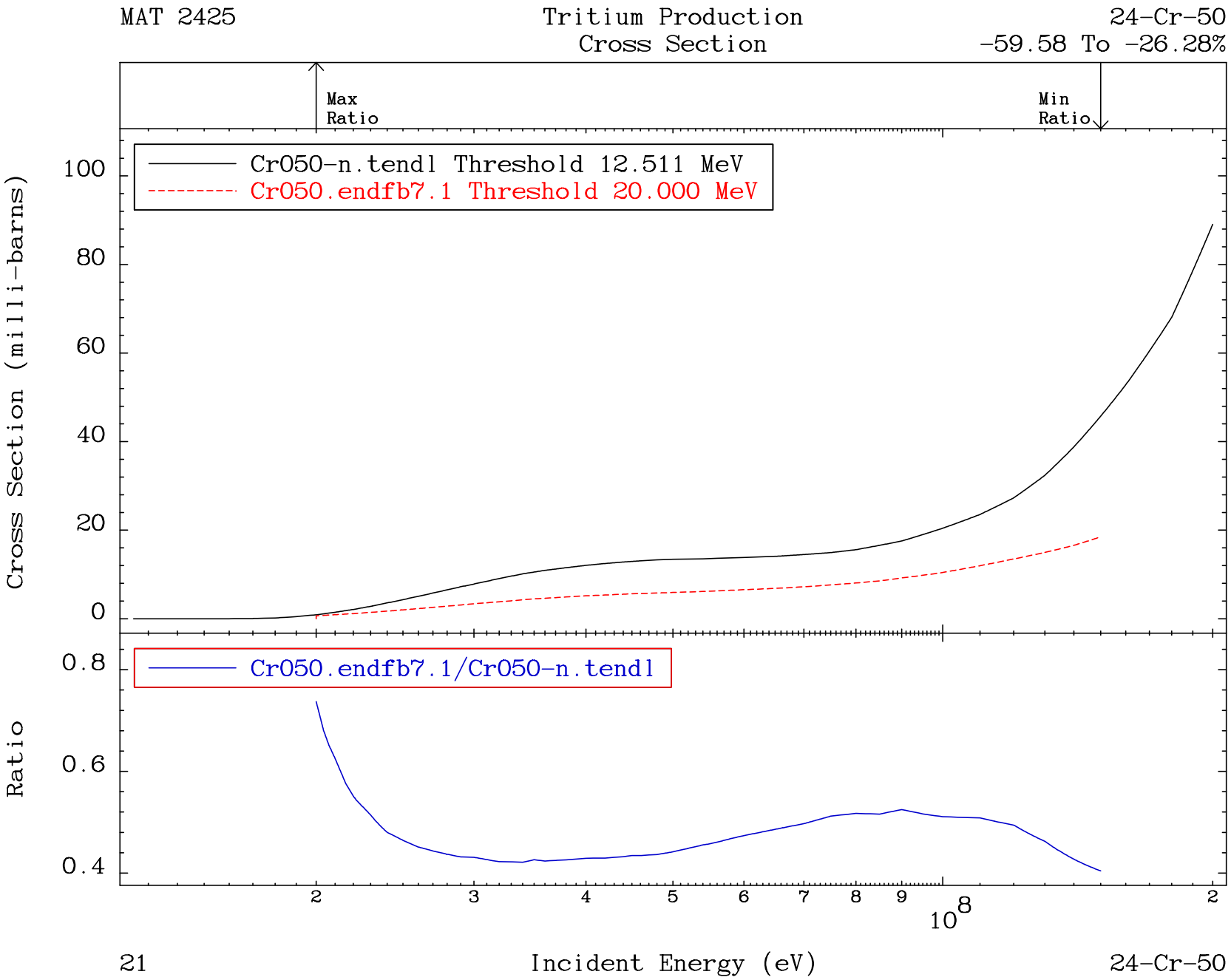

MAT 2425
(n,p)
Cross Section
24-Cr-50
-100.0 To 363.0 %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 260.66 keV
Cr050.endfb7.1 Threshold 1000.0 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
6
4
2
0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
24-Cr-50

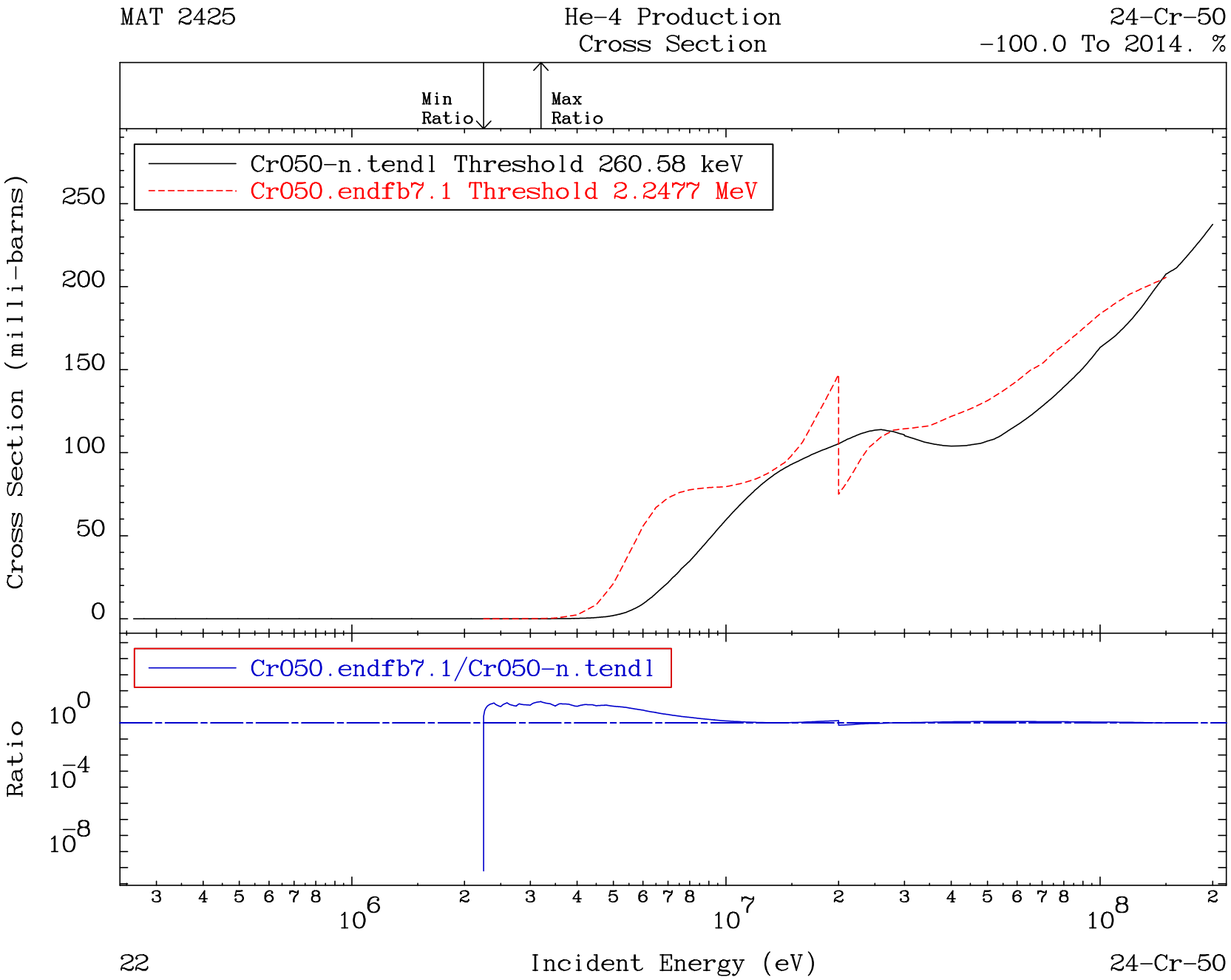

MAT 2425
(n,d)
Cross Section
24-Cr-50
-100.0 To 9999. %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 7.5139 MeV
Cr050.endfb7.1 Threshold 7.5127 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
30
20
10
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
24-Cr-50

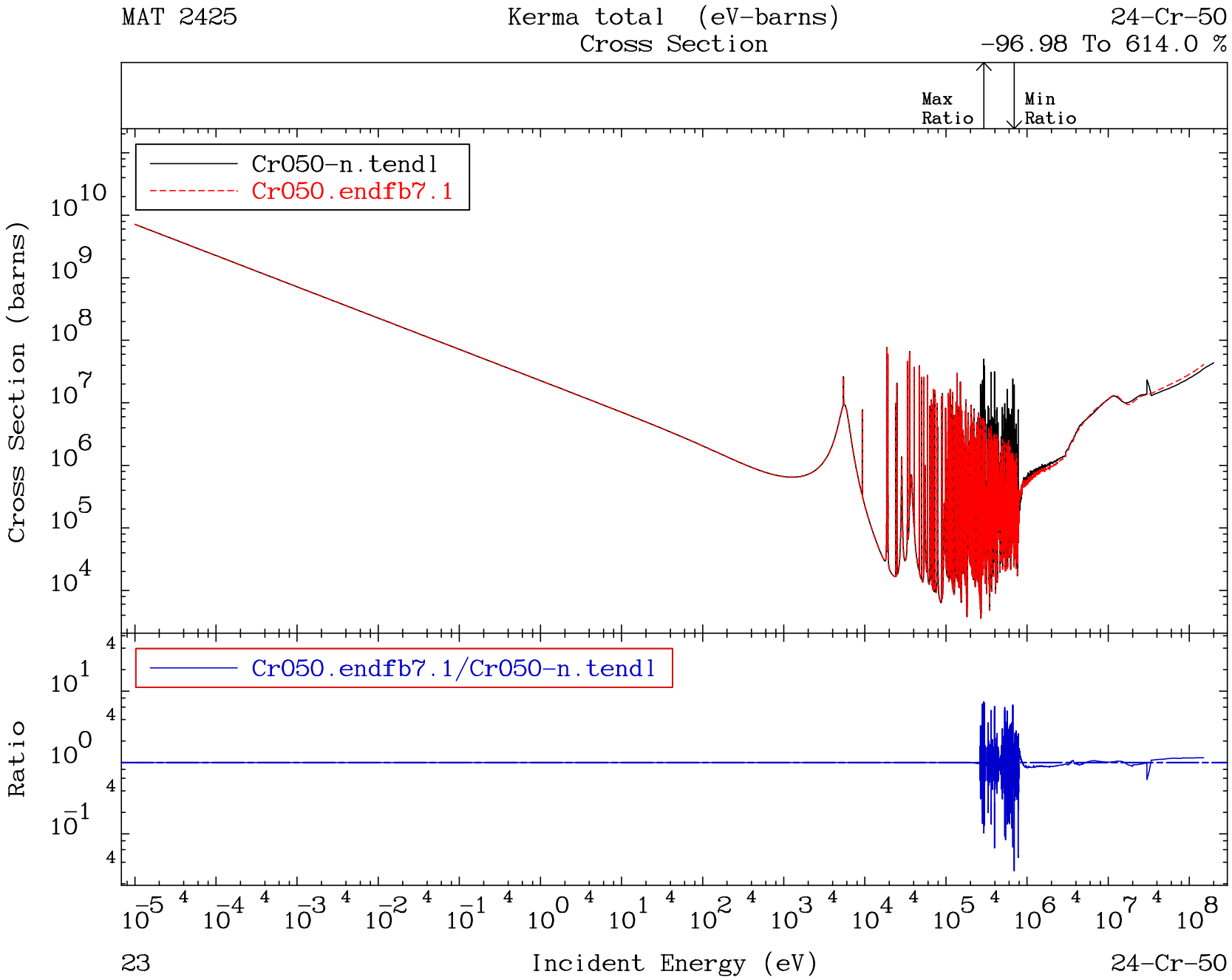

MAT 2425
(n,α)
Cross Section
24-Cr-50
-100.0 To 2014. %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 260.58 keV
Cr050.endfb7.1 Threshold 2.2500 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
20
10
0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
24-Cr-50

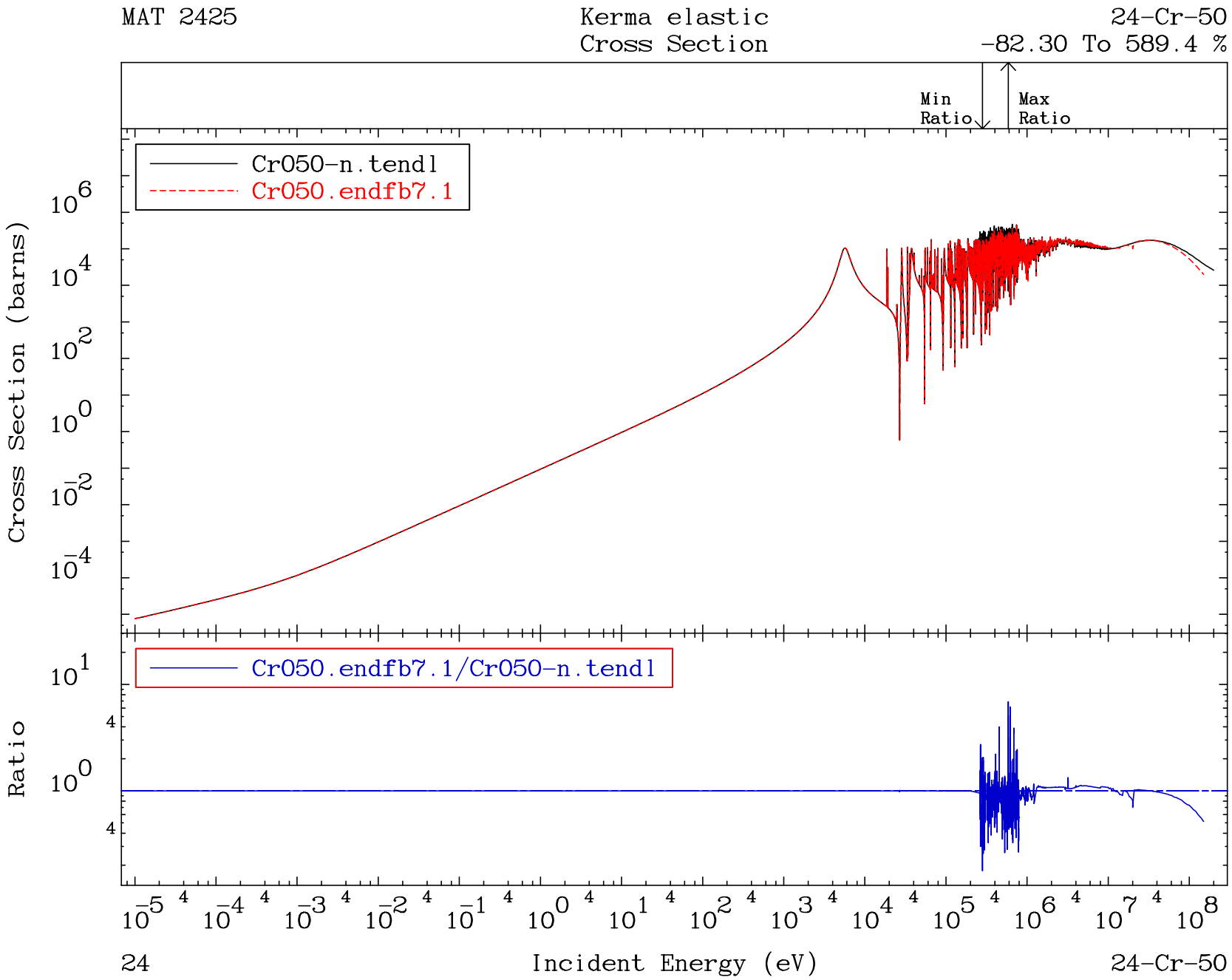

MAT 2425
Hydrogen Production
Cross Section
24-Cr-50
-10.97 To 363.0 %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 260.66 keV
Cr050.endfb7.1 Threshold 1000.0 keV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
4
2
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
24-Cr-50

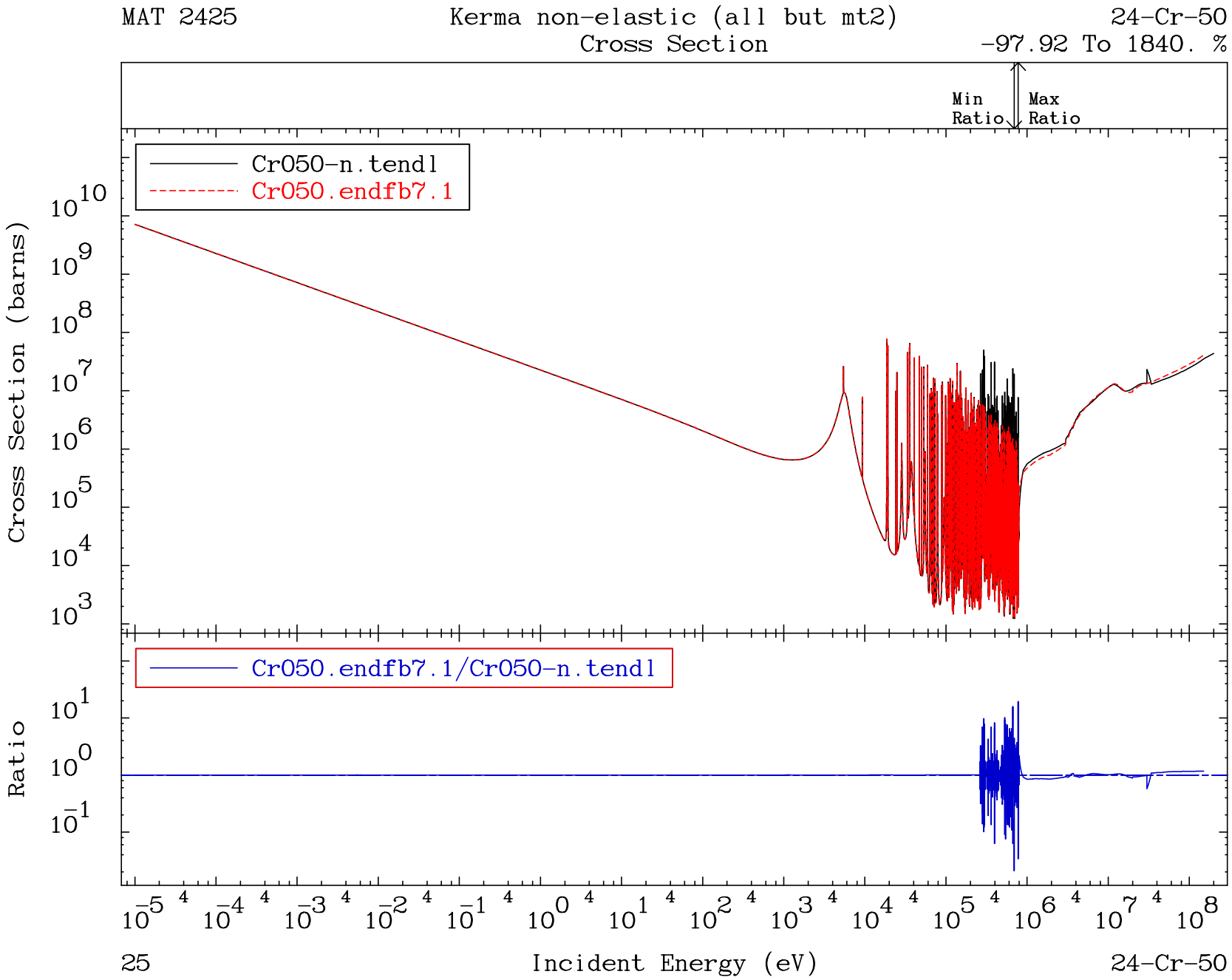

MAT 2425
Deuterium Production
Cross Section
24-Cr-50
-70.87 To 9999. %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 7.5139 MeV
Cr050.endfb7.1 Threshold 7.5127 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
10^12
10^8
10^4
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
24-Cr-50

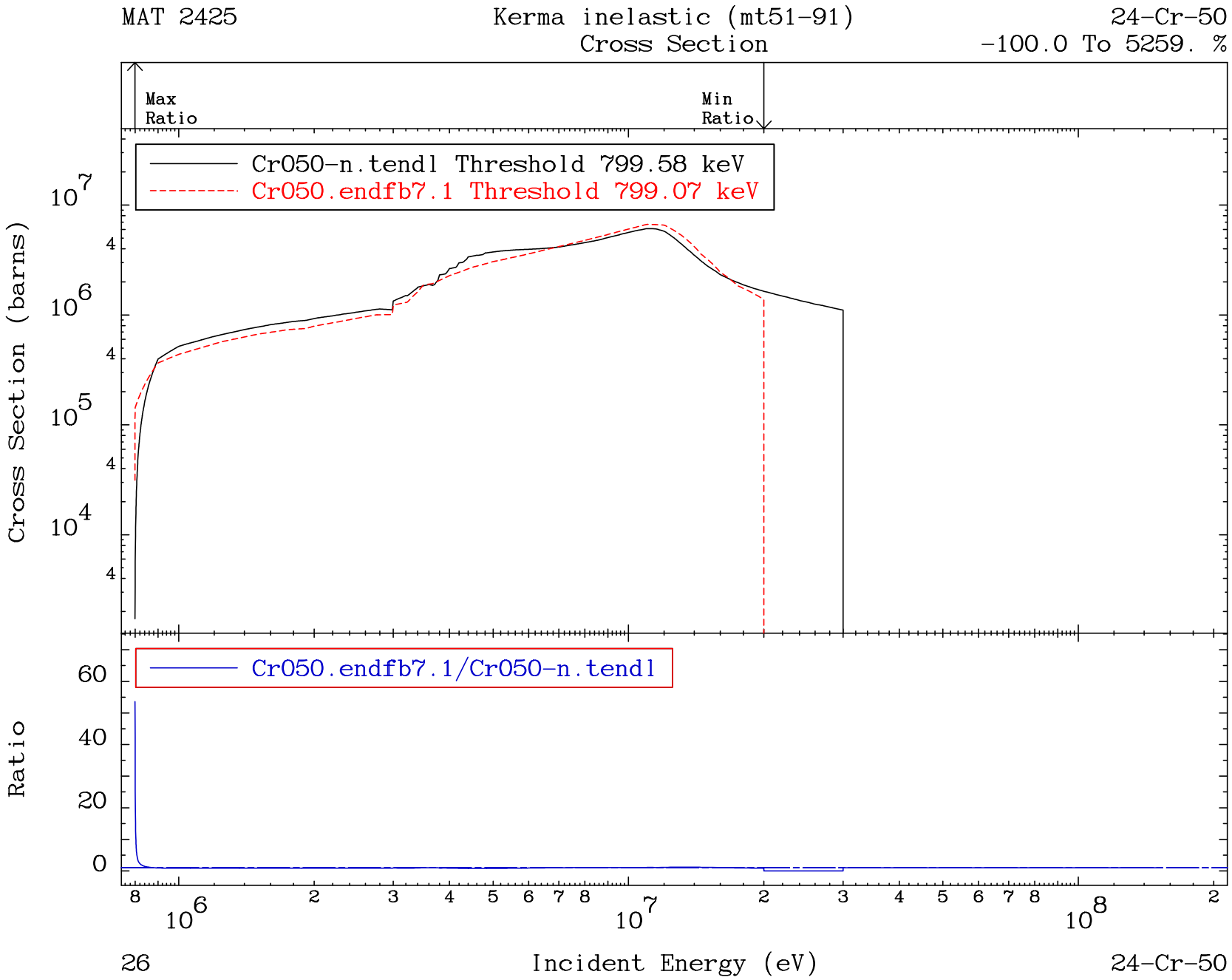

MAT 2425
Tritium Production
Cross Section
24-Cr-50
-59.58 To -26.28%
Max
Ratio
Min
Ratio
Cr050-n.tendl Threshold 12.511 MeV
Cr050.endfb7.1 Threshold 20.000 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
0.8
0.6
0.4
2
3
4
5
6
7
8
9
10^8
2
21
Incident Energy (eV)
24-Cr-50

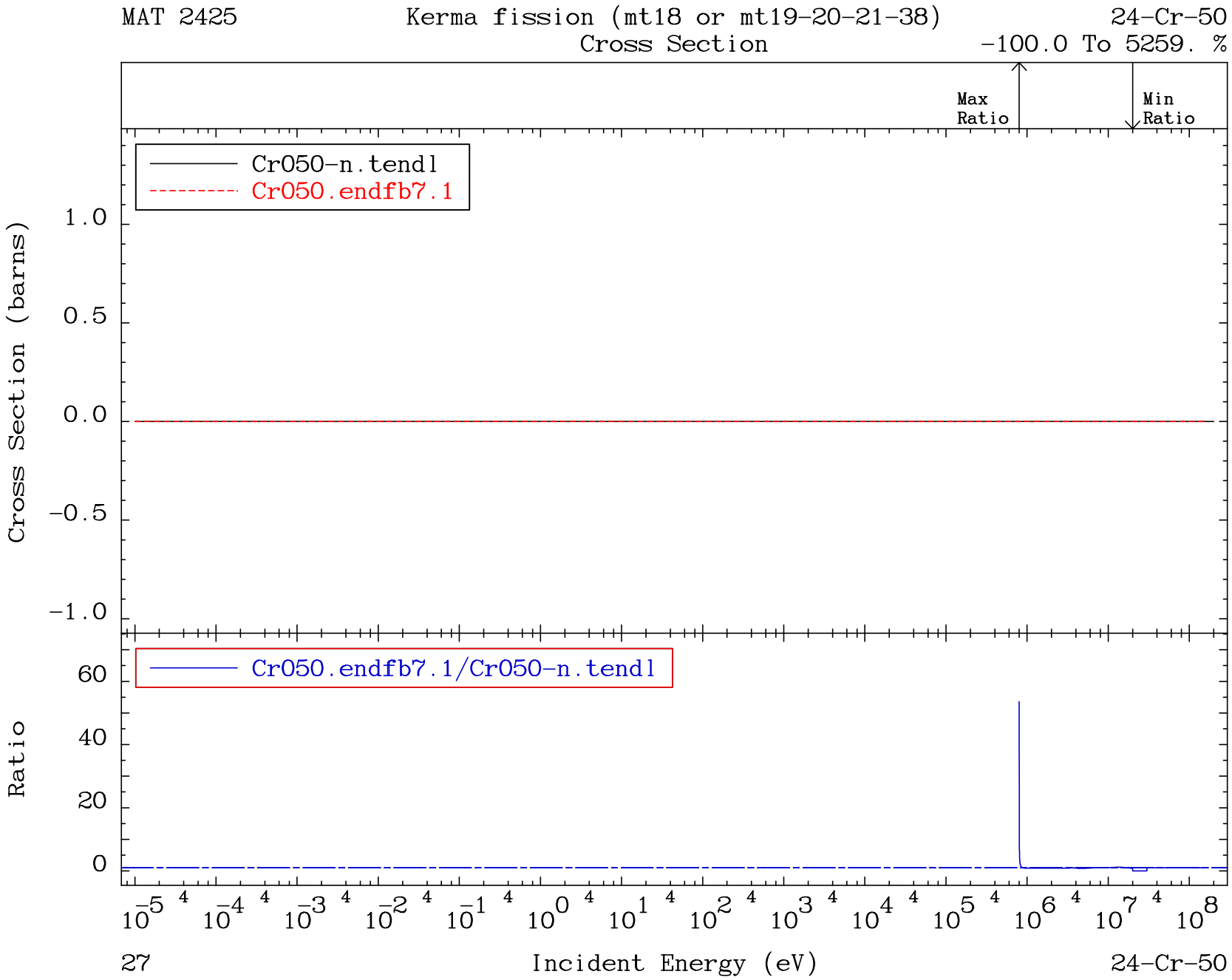

MAT 2425
He-4 Production
Cross Section
24-Cr-50
-100.0 To 2014. %
Min Ratio
Max Ratio
Cr050-n.tendl Threshold 260.58 keV
Cr050.endfb7.1 Threshold 2.2477 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
10^0
10^-4
10^-8
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
24-Cr-50

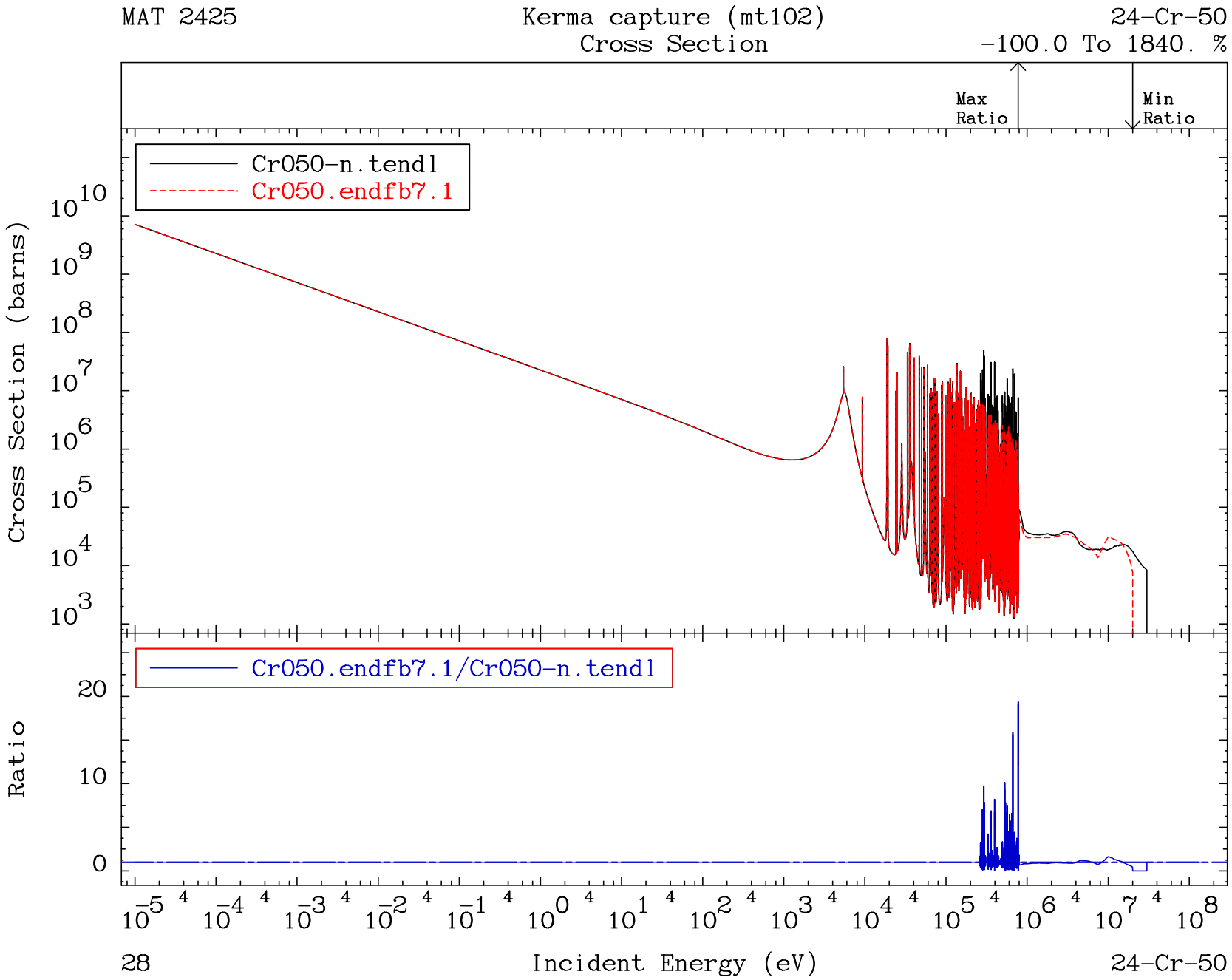

MAT 2425
Kerma total (eV-barns)
Cross Section
24-Cr-50
-96.98 To 614.0 %
Max Ratio
Min Ratio
Cr050-n.tendl
Cr050.endfb7.1
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
23
24-Cr-50

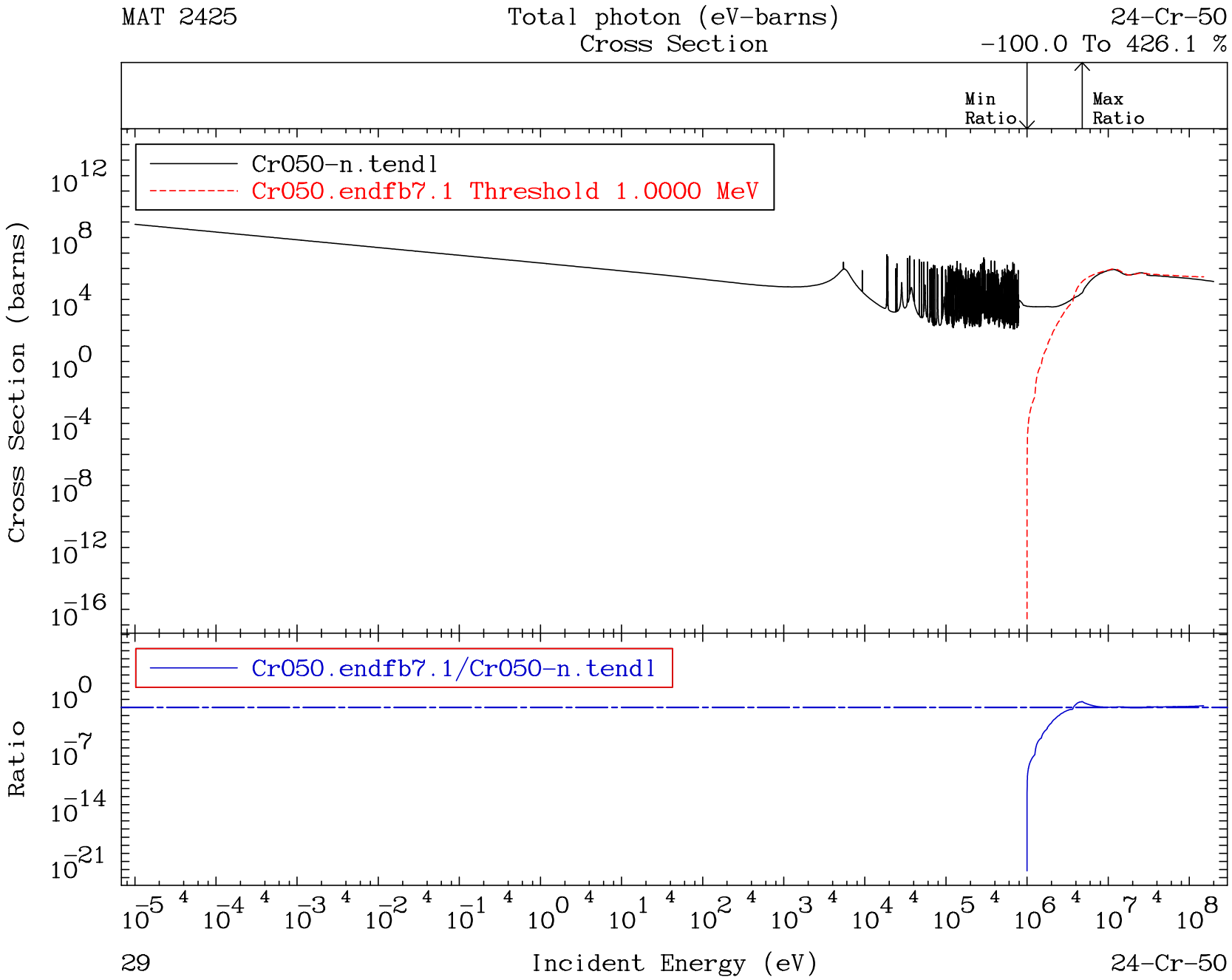

MAT 2425
Kerma elastic
Cross Section
24-Cr-50
-82.30 To 589.4 %
Min Ratio
Max Ratio
Cr050-n.tendl
Cr050.endfb7.1
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
24
24-Cr-50

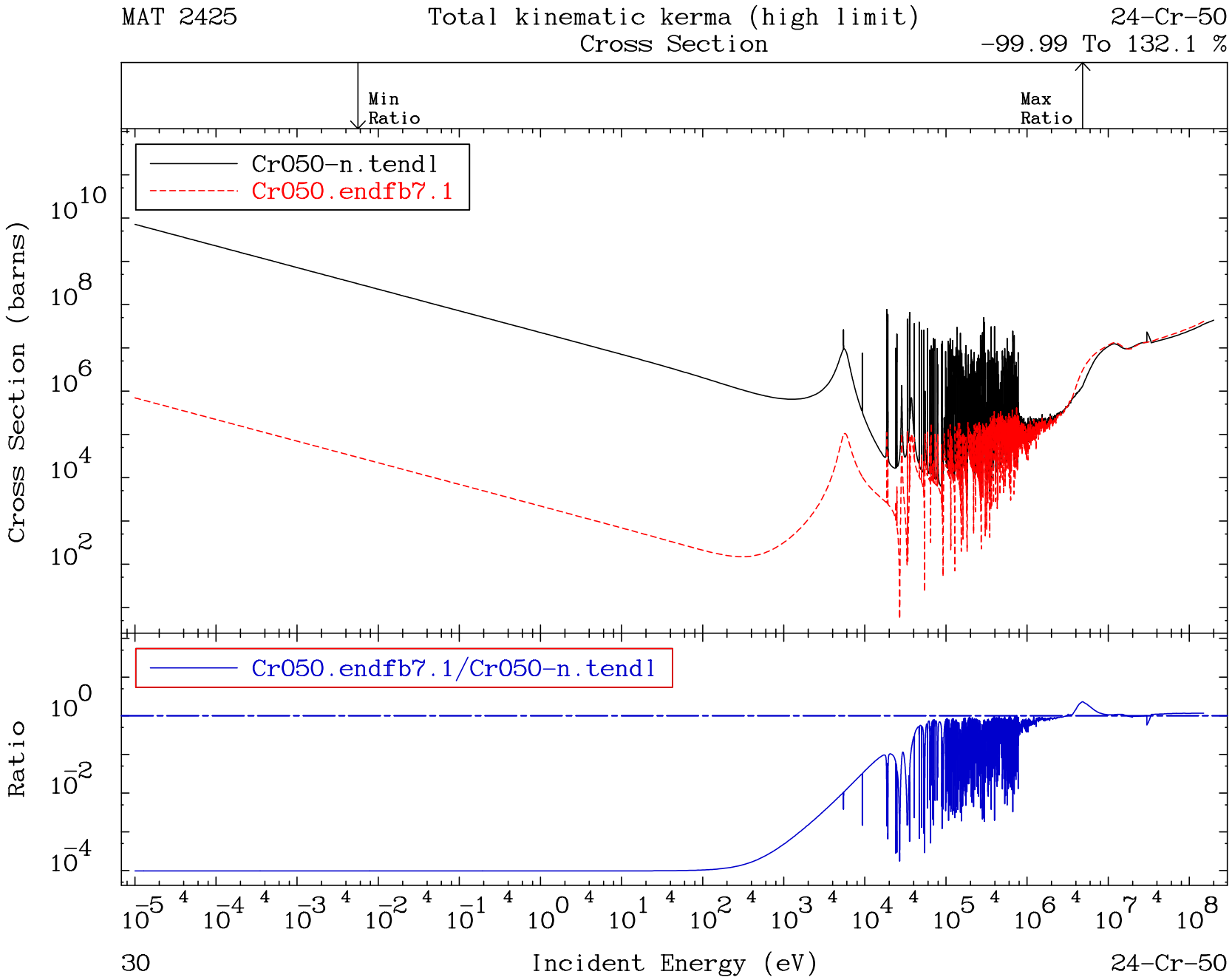

MAT 2425
Kerma non-elastic (all but mt2)
Cross Section
24-Cr-50
-97.92 To 1840. %
Min Ratio
Max Ratio
Cr050-n.tendl
Cr050.endfb7.1
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
25
24-Cr-50

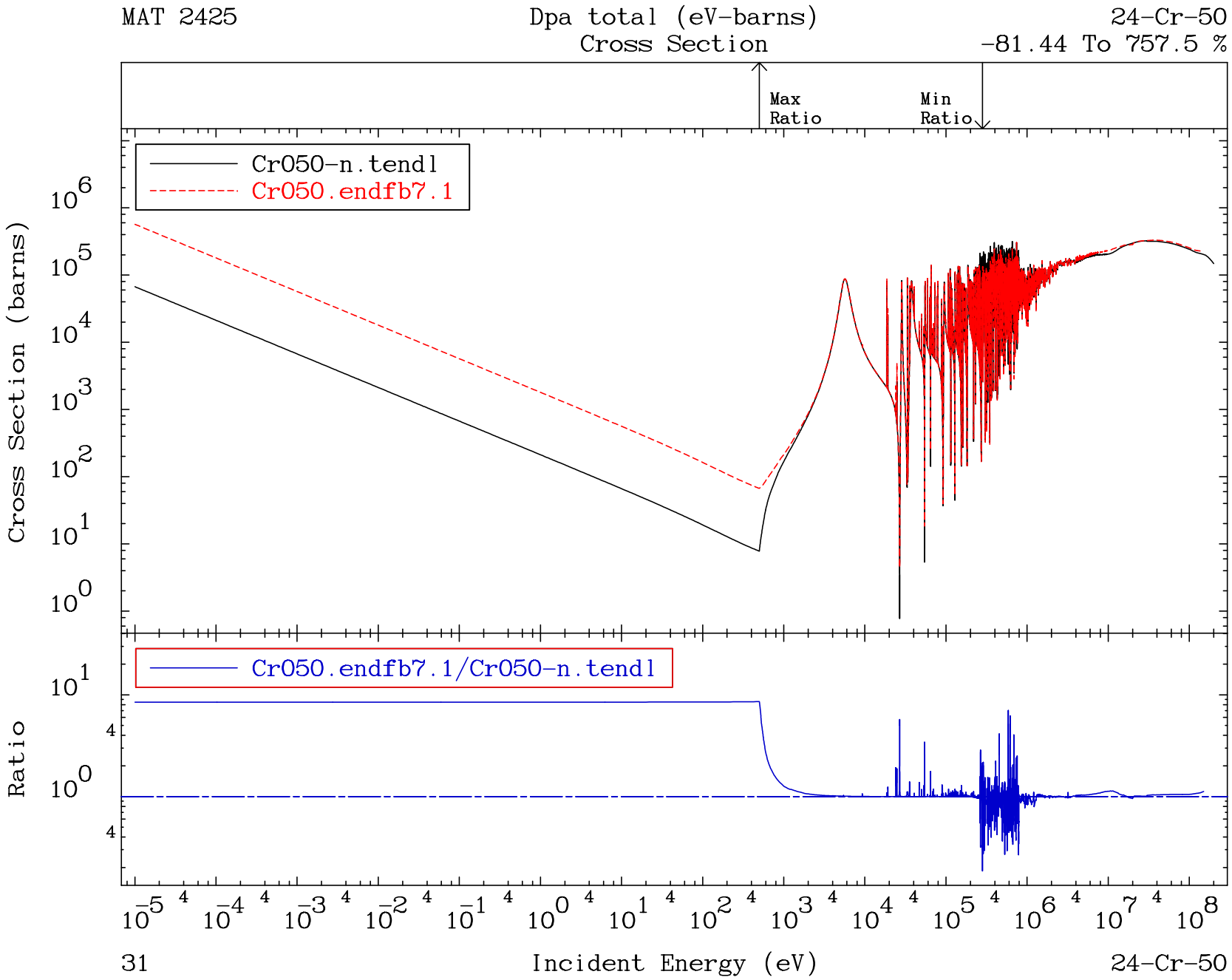

MAT 2425
Kerma inelastic (mt51-91)
Cross Section
24-Cr-50
-100.0 To 5259. %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 799.58 keV
Cr050.endfb7.1 Threshold 799.07 keV
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
26
24-Cr-50

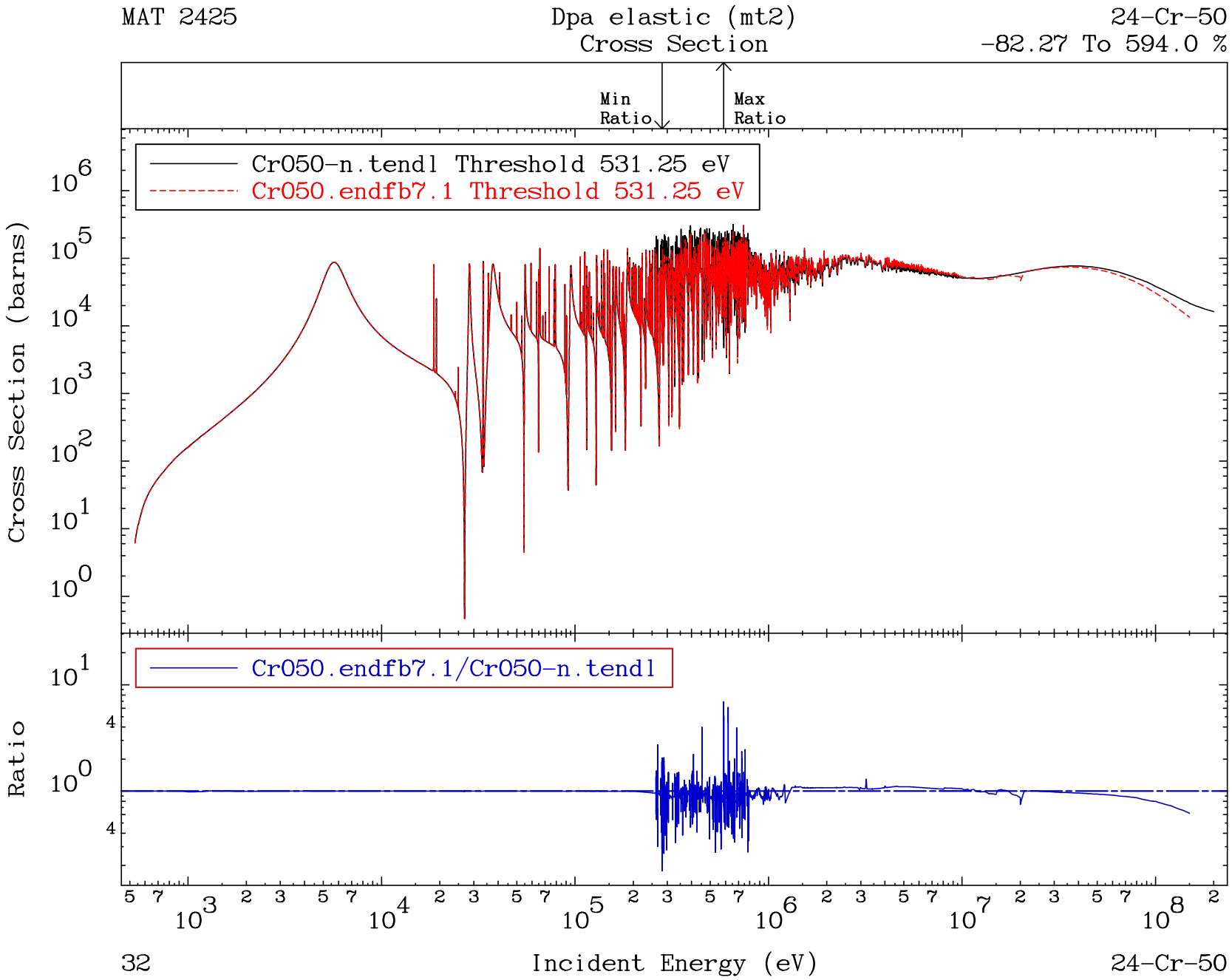

MAT 2425
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
24-Cr-50
-100.0 To 5259. %
Max Ratio
Min Ratio
Cr050-n.tendl
Cr050.endfb7.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Cr050.endfb7.1/Cr050-n.tendl
Ratio
60
40
20
0
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
27
Incident Energy (eV)
24-Cr-50

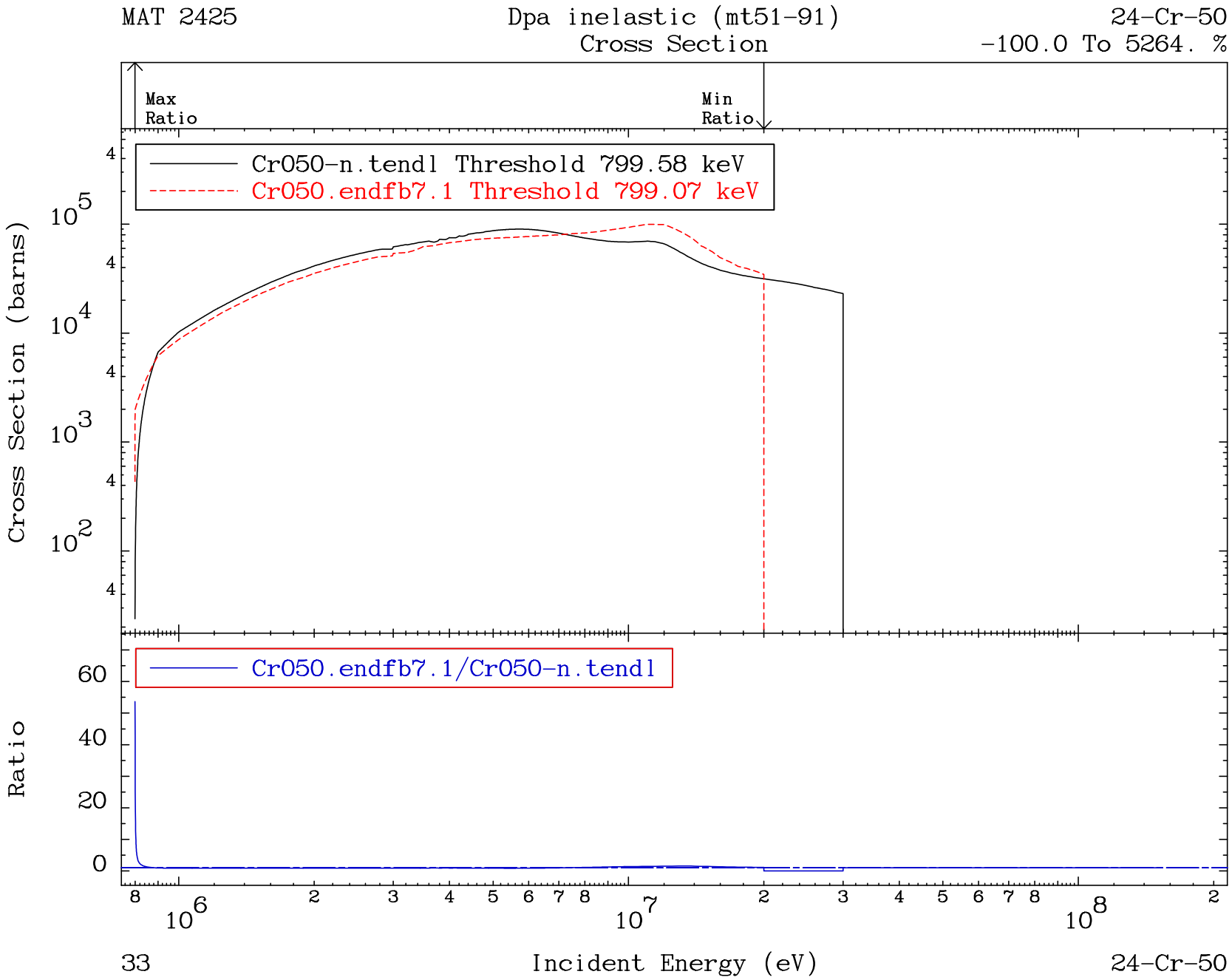

MAT 2425
Kerma capture (mt102)
Cross Section
24-Cr-50
-100.0 To 1840. %
Max Ratio
Min Ratio
Cr050-n.tendl
Cr050.endfb7.1
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
28
24-Cr-50

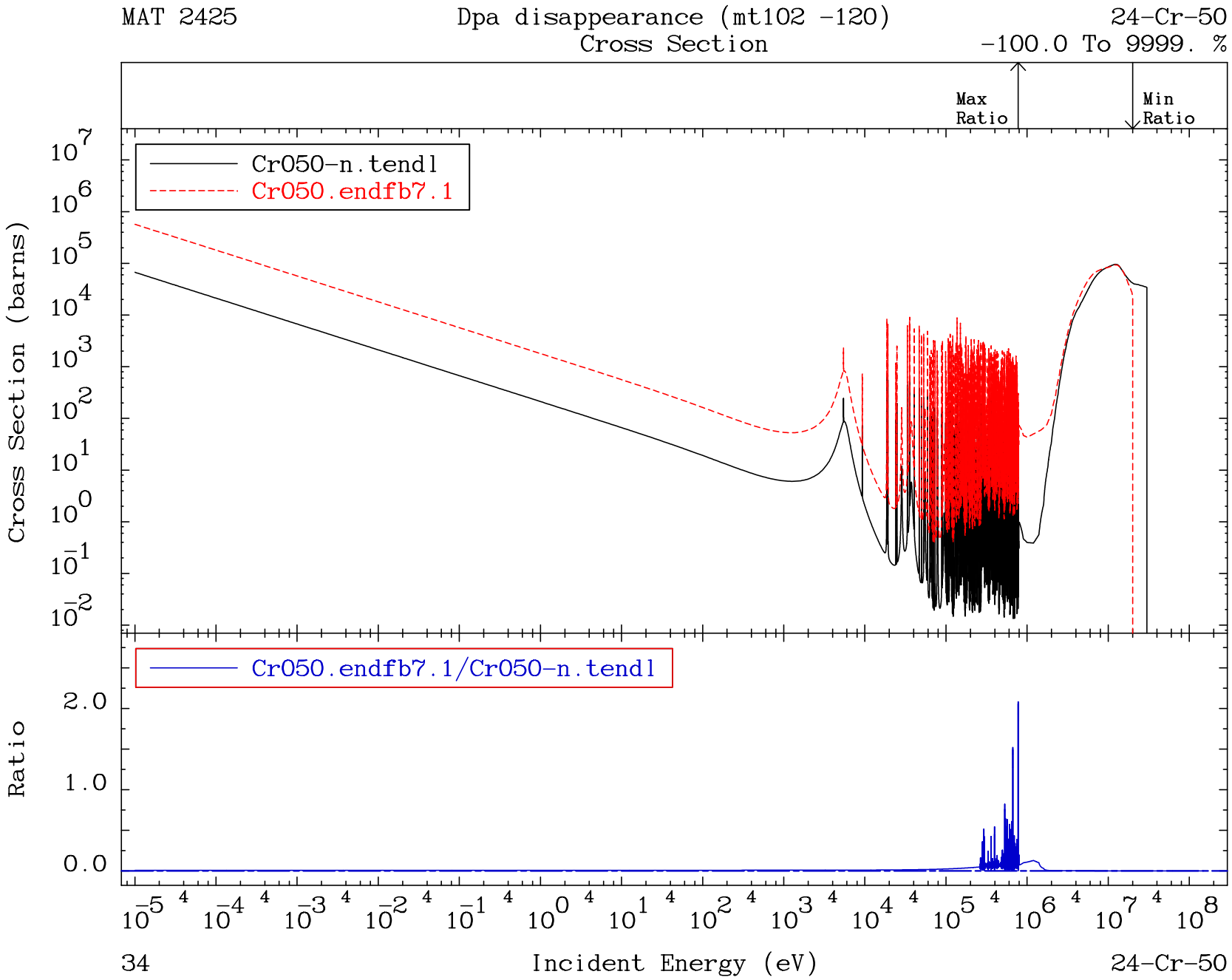

MAT 2425
Total photon (eV-barns)
Cross Section
24-Cr-50
-100.0 To 426.1 %
Min Ratio
Max Ratio
Cr050-n.tendl
Cr050.endfb7.1 Threshold 1.0000 MeV
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
29
24-Cr-50


MAT 2425
Total kinematic kerma (high limit)
Cross Section
24-Cr-50
-99.99 To 132.1 %
Min Ratio
Max Ratio
Cr050-n.tendl
Cr050.endfb7.1
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
30
24-Cr-50


MAT 2425
Dpa total (eV-barns)
Cross Section
24-Cr-50
-81.44 To 757.5 %
Max Ratio
Min Ratio
Cr050-n.tendl
Cr050.endfb7.1
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
31
24-Cr-50


MAT 2425
Dpa elastic (mt2)
Cross Section
24-Cr-50
-82.27 To 594.0 %
Min Ratio
Max Ratio
Cr050-n.tendl Threshold 531.25 eV
Cr050.endfb7.1 Threshold 531.25 eV
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
32
24-Cr-50


MAT 2425
Dpa inelastic (mt51-91)
Cross Section
24-Cr-50
-100.0 To 5264. %
Max Ratio
Min Ratio
Cr050-n.tendl Threshold 799.58 keV
Cr050.endfb7.1 Threshold 799.07 keV
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
33
24-Cr-50


MAT 2425
Dpa disappearance (mt102 -120)
Cross Section
24-Cr-50
-100.0 To 9999. %
Max Ratio
Min Ratio
Cr050-n.tendl
Cr050.endfb7.1
Cross Section (barns)
Cr050.endfb7.1/Cr050-n.tendl
Ratio
Incident Energy (eV)
34
24-Cr-50