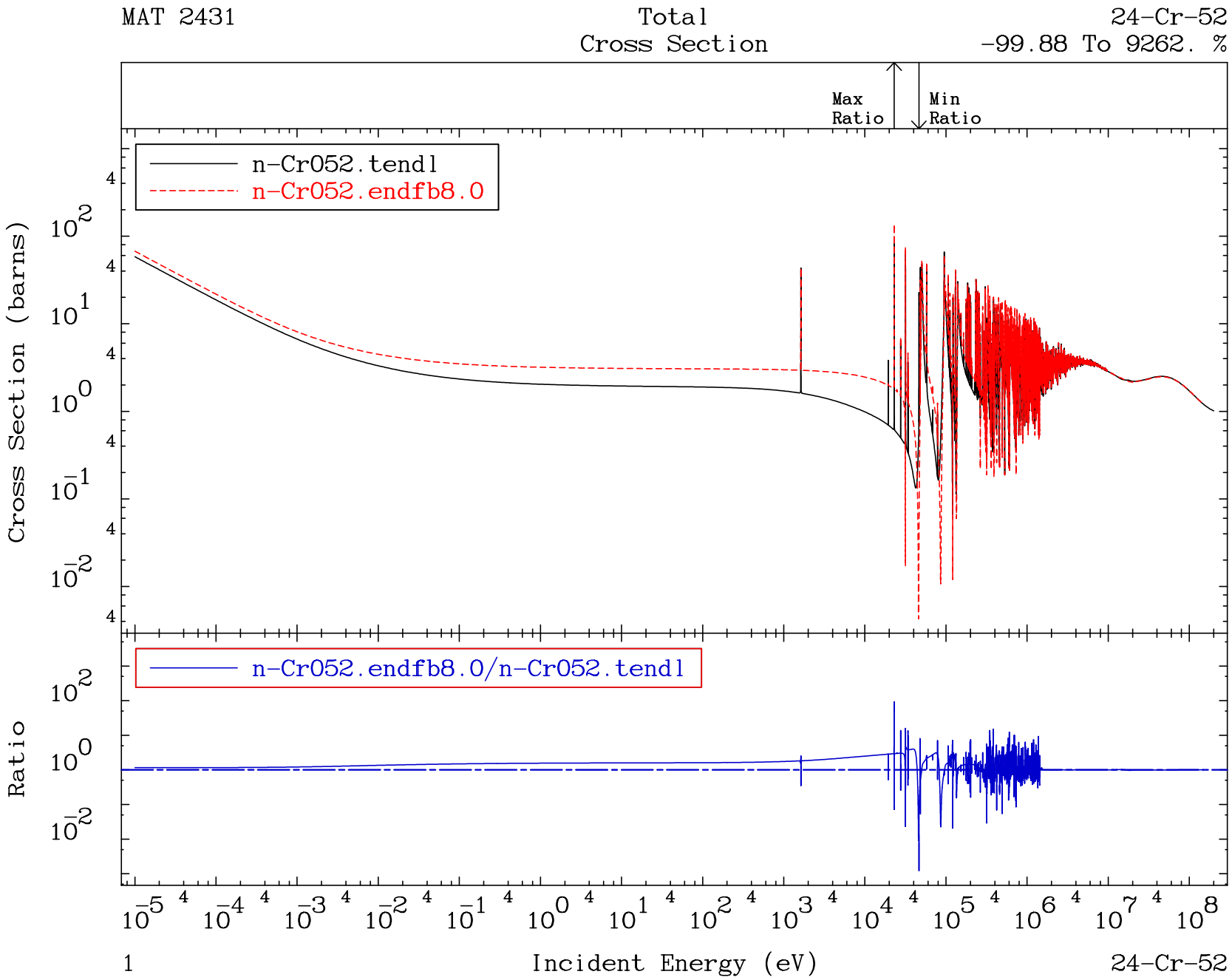
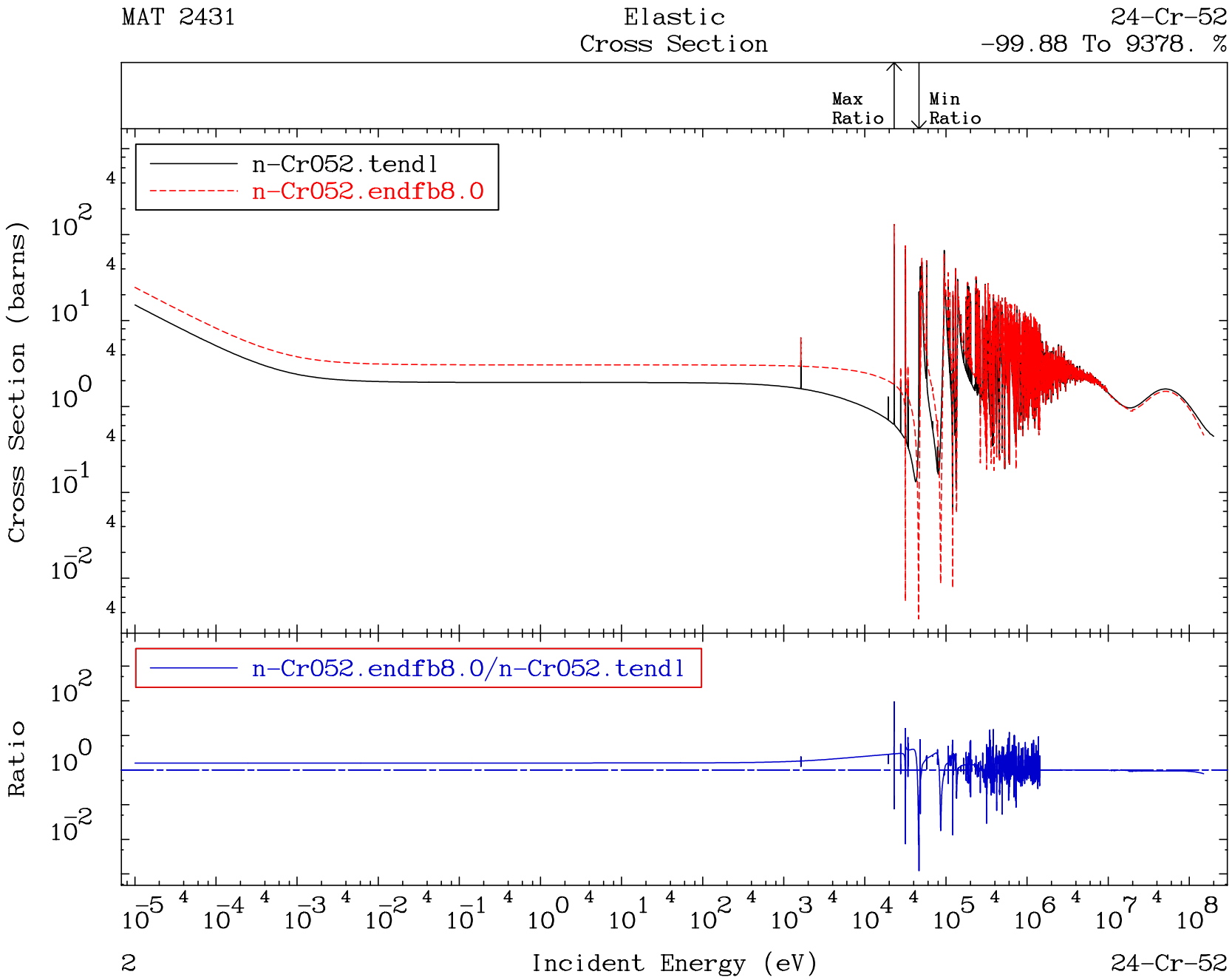
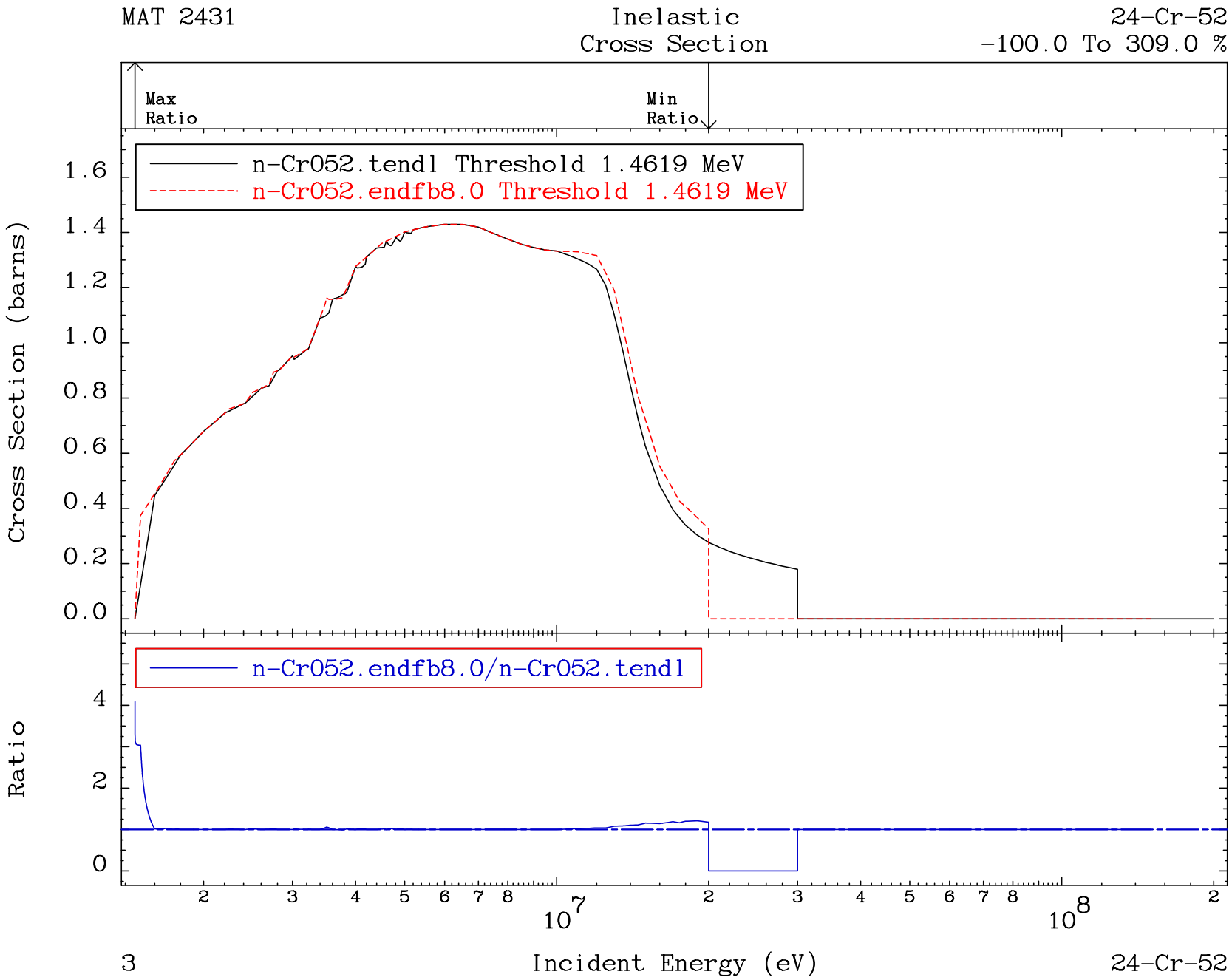
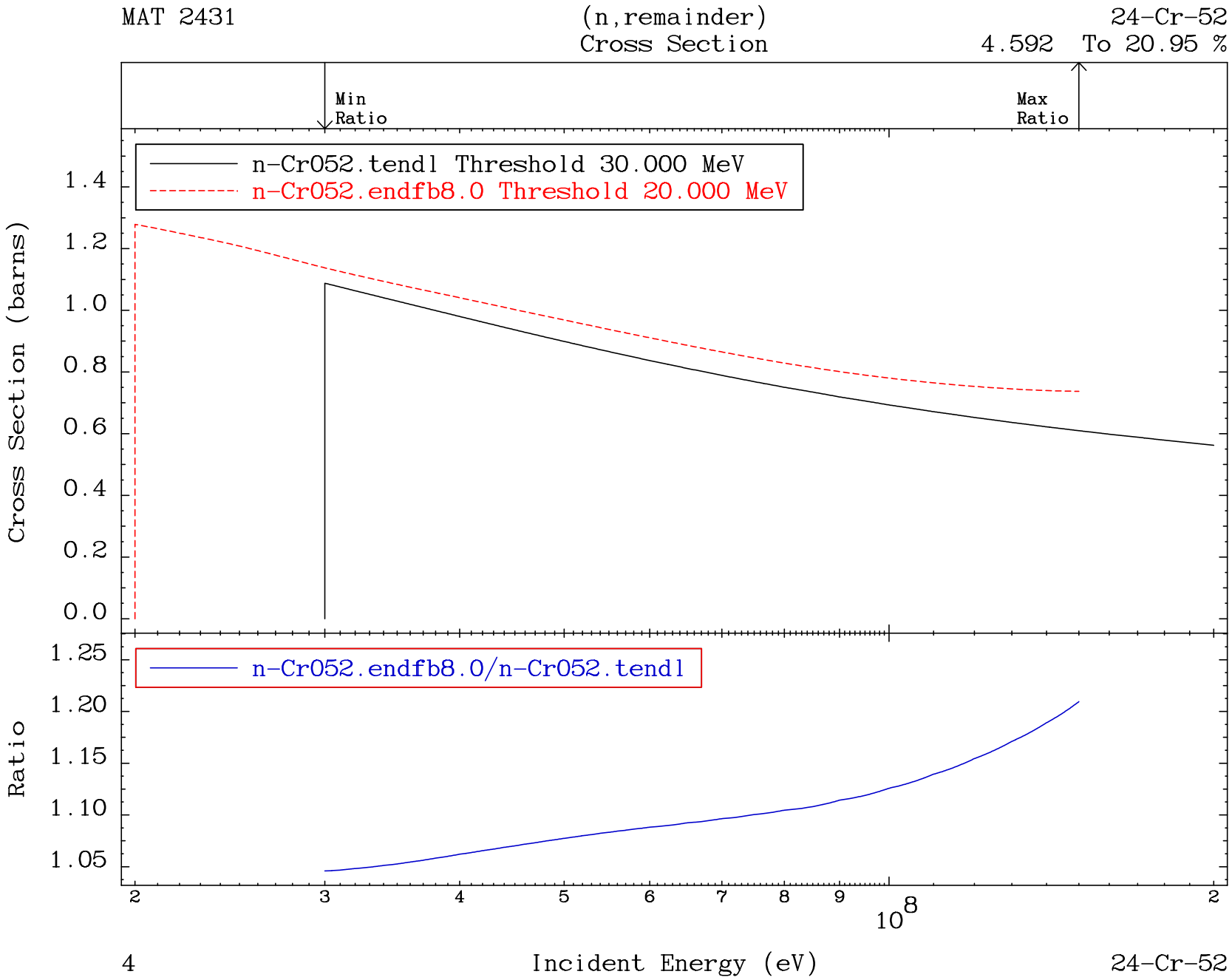
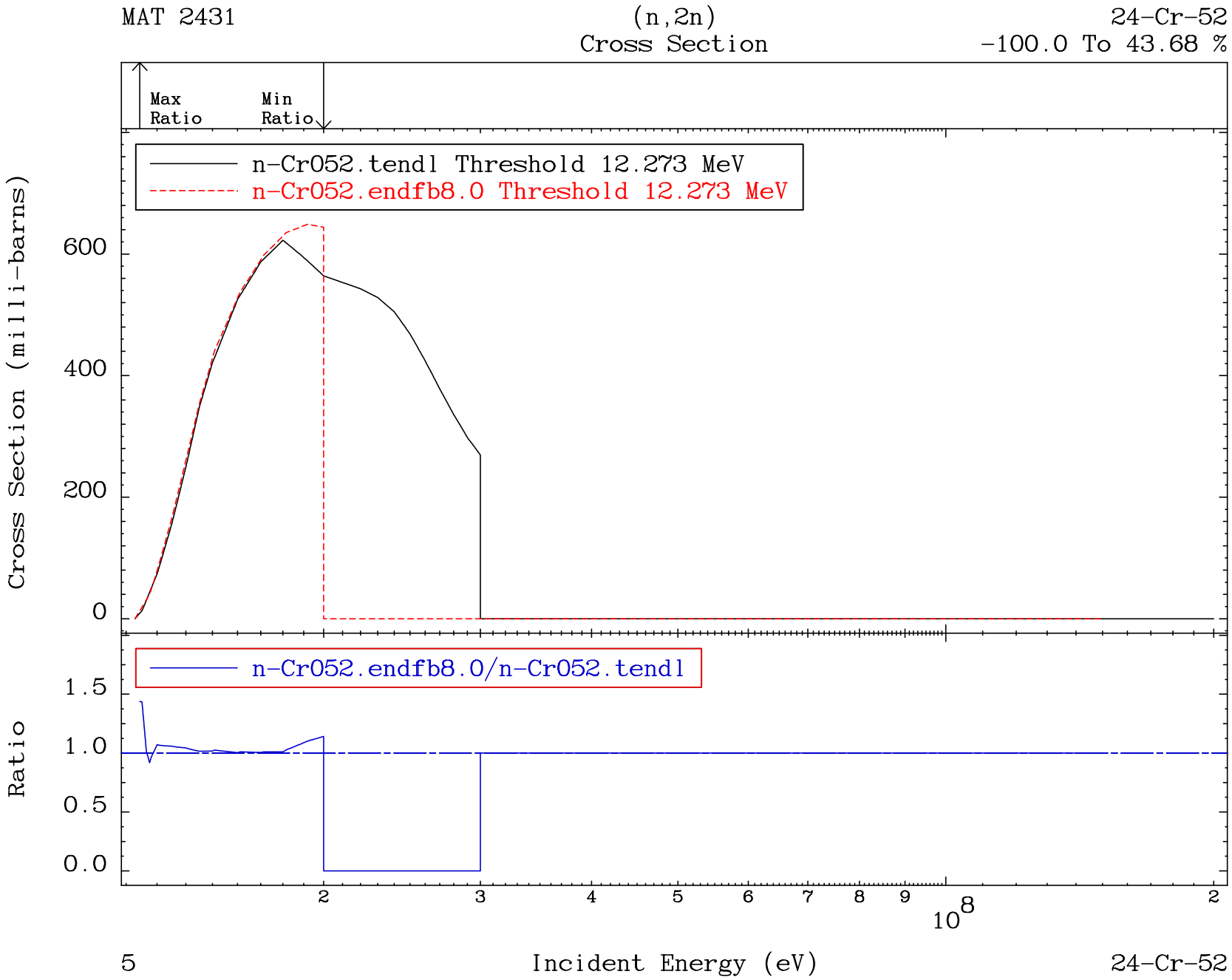
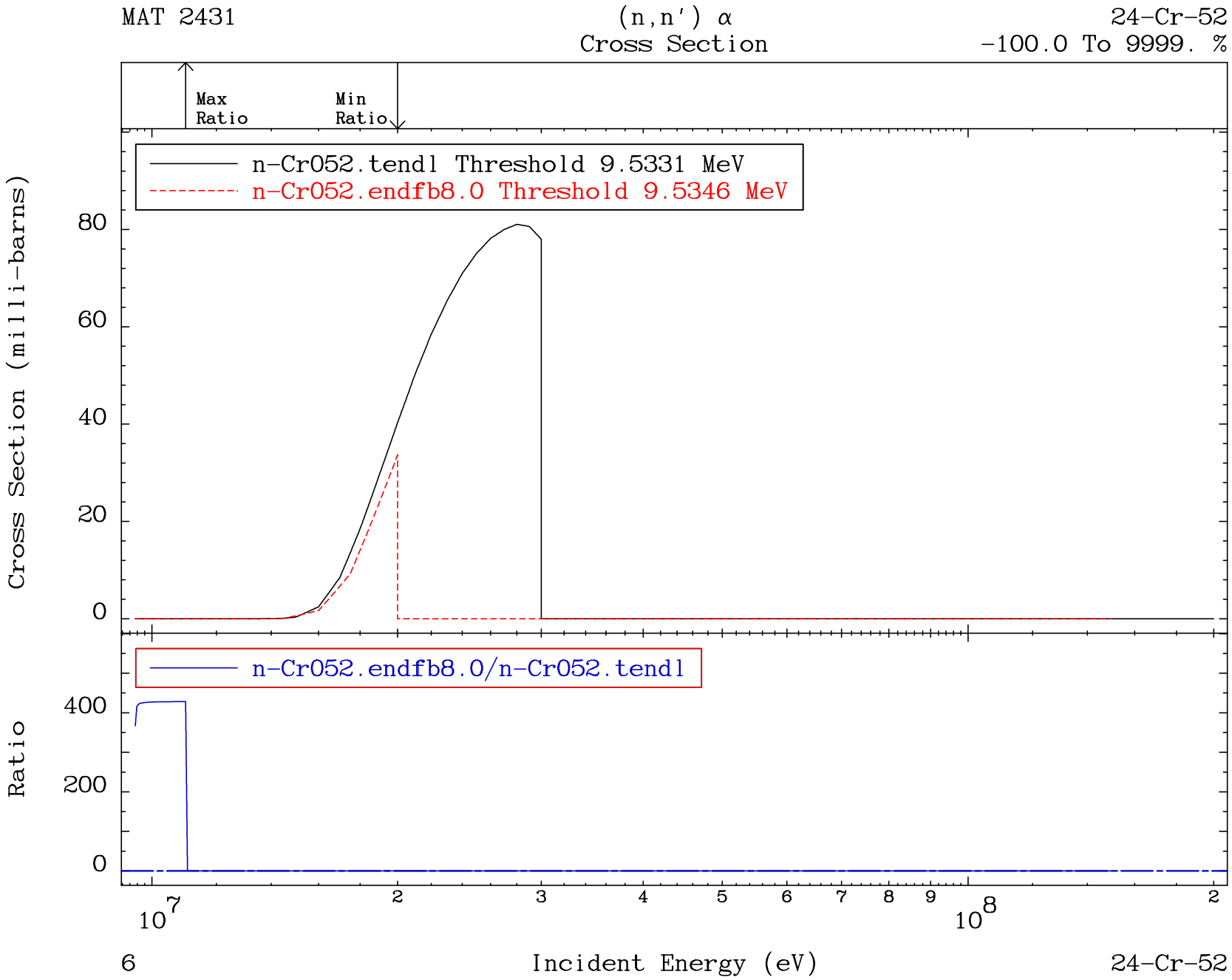

MAT 2431
Total
Cross Section
24-Cr-52
-99.88 To 9262. %
Max
Ratio
Min
Ratio
n-Cr052.tendl
n-Cr052.endfb8.0
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
1
24-Cr-52

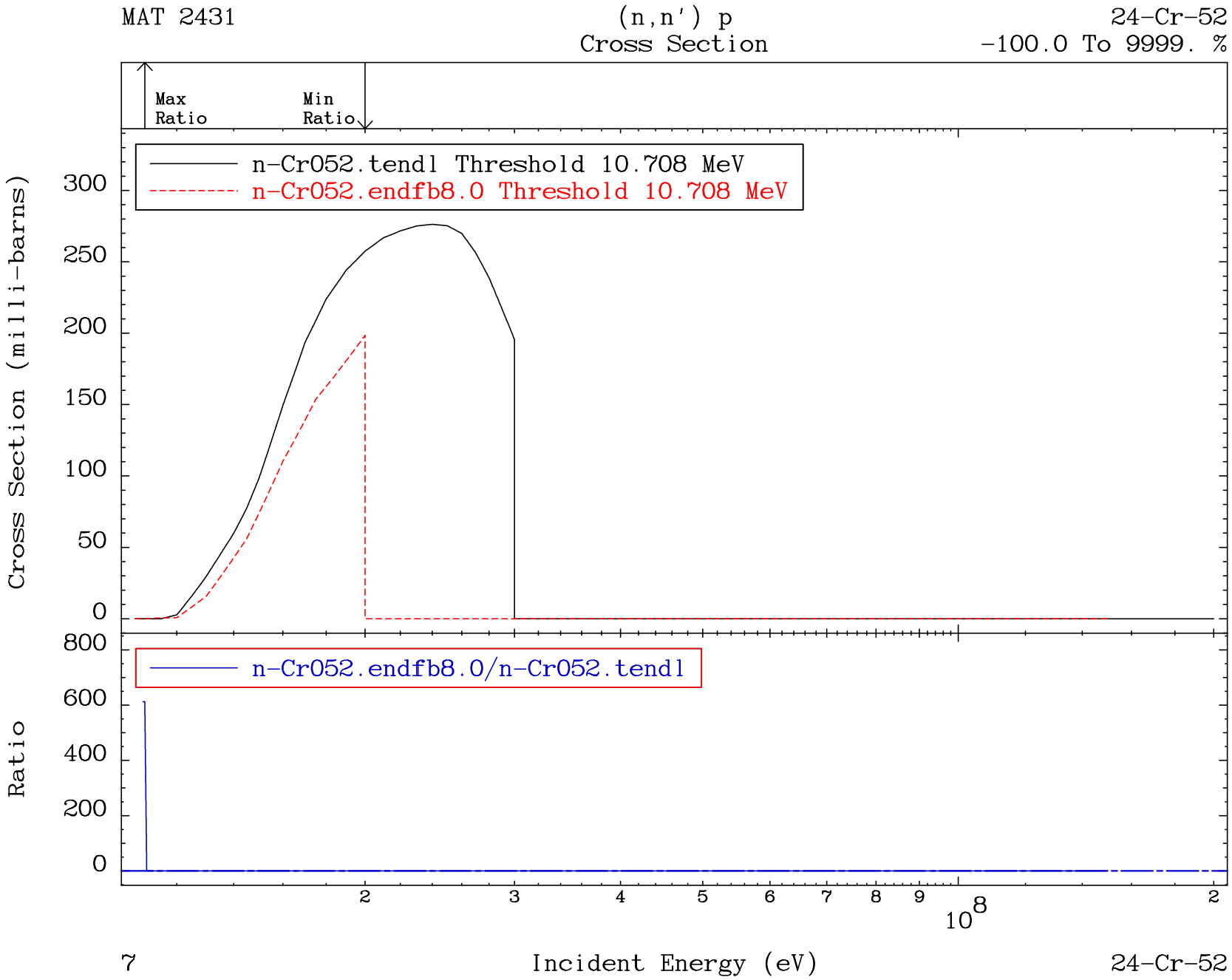

MAT 2431
Elastic
Cross Section
24-Cr-52
-99.88 To 9378. %
Max
Ratio
Min
Ratio
n-Cr052.tendl
n-Cr052.endfb8.0
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
24-Cr-52
2

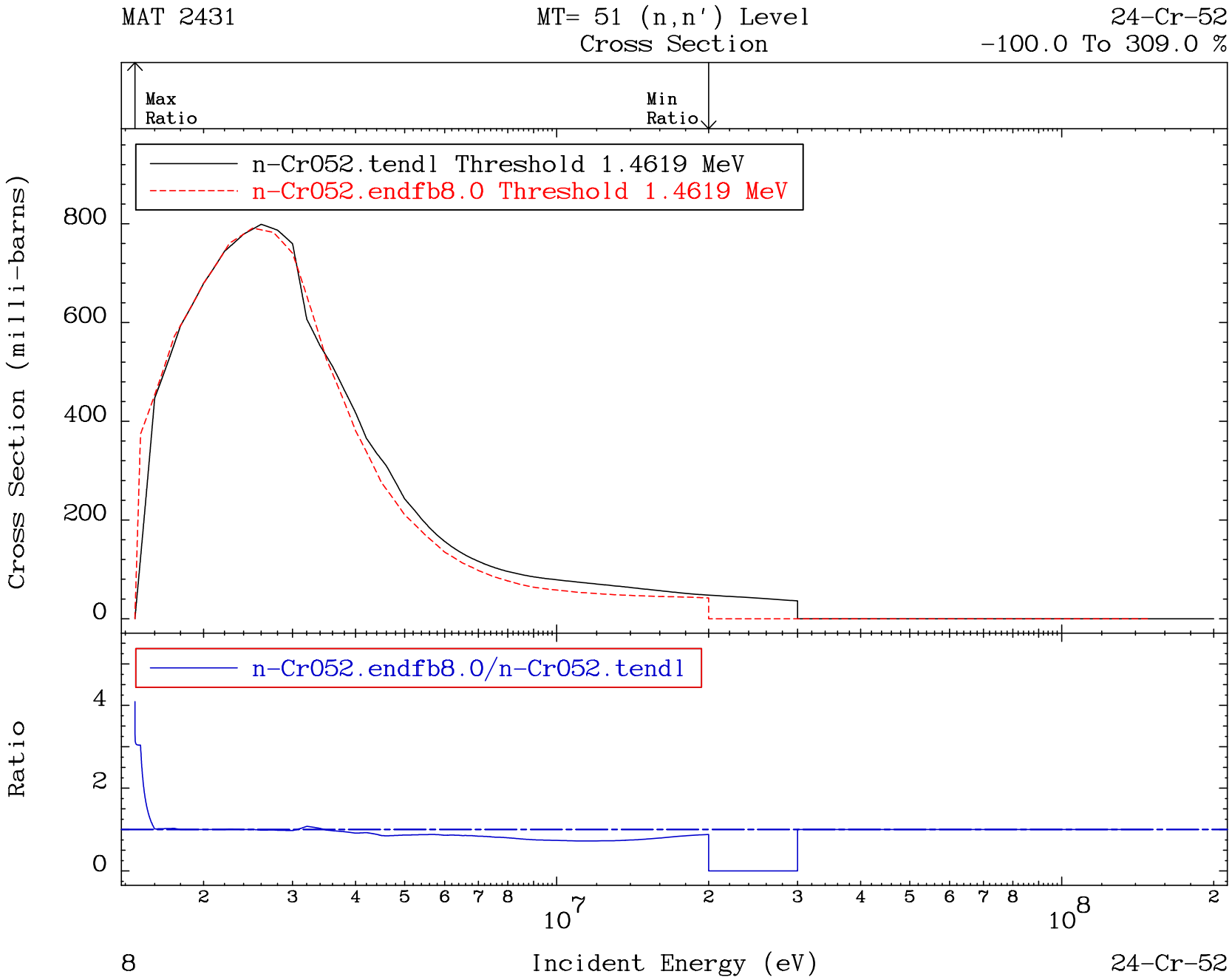

MAT 2431
Inelastic
Cross Section
24-Cr-52
-100.0 To 309.0 %
Max
Ratio
Min
Ratio
n-Cr052.tendl Threshold 1.4619 MeV
n-Cr052.endfb8.0 Threshold 1.4619 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
4
2
0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
24-Cr-52

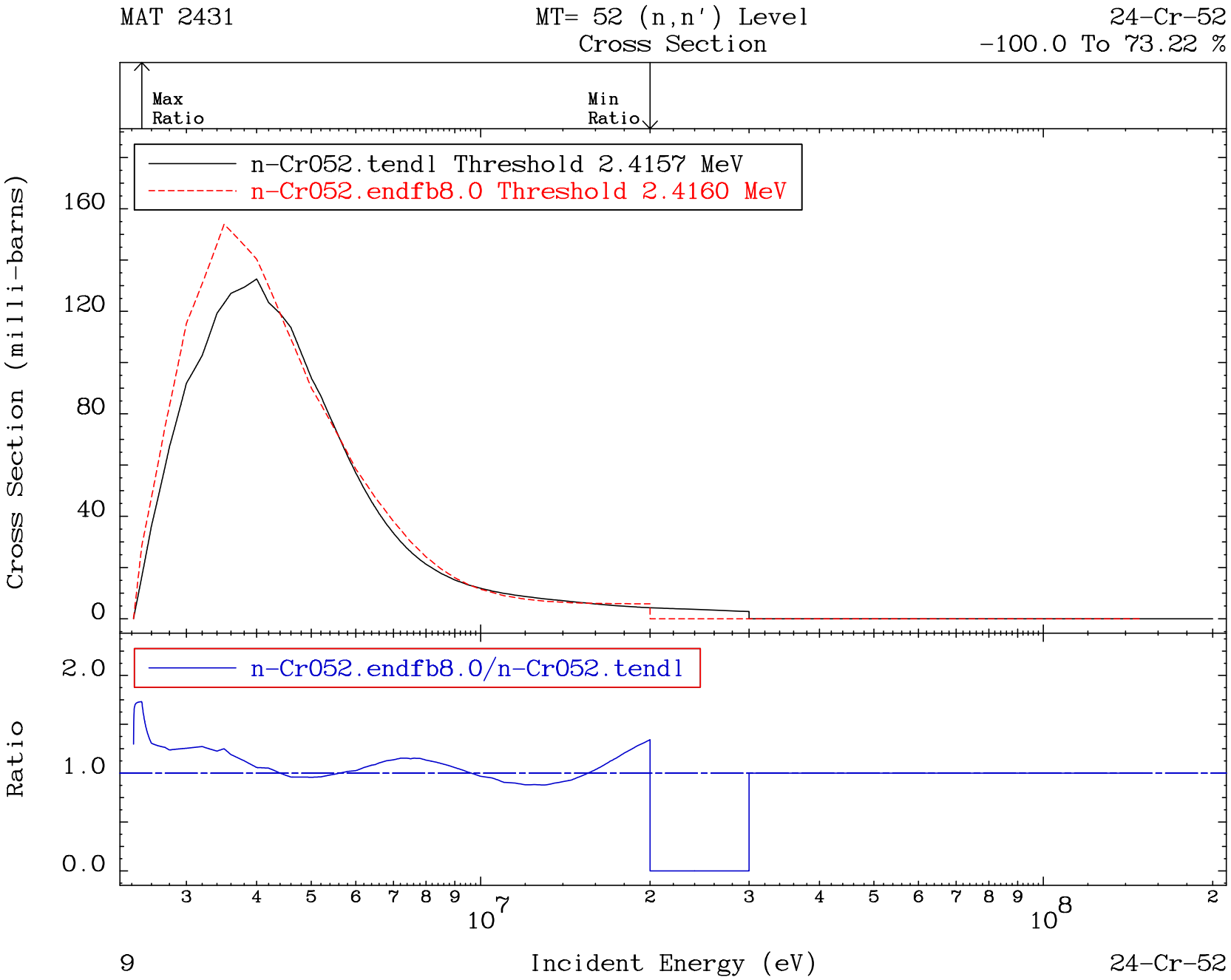

MAT 2431
(n,remainder)
Cross Section
24-Cr-52
4.592 To 20.95 %
Min Ratio
Max Ratio
n-Cr052.tendl Threshold 30.000 MeV
n-Cr052.endfb8.0 Threshold 20.000 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
1.25
1.20
1.15
1.10
1.05
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
24-Cr-52

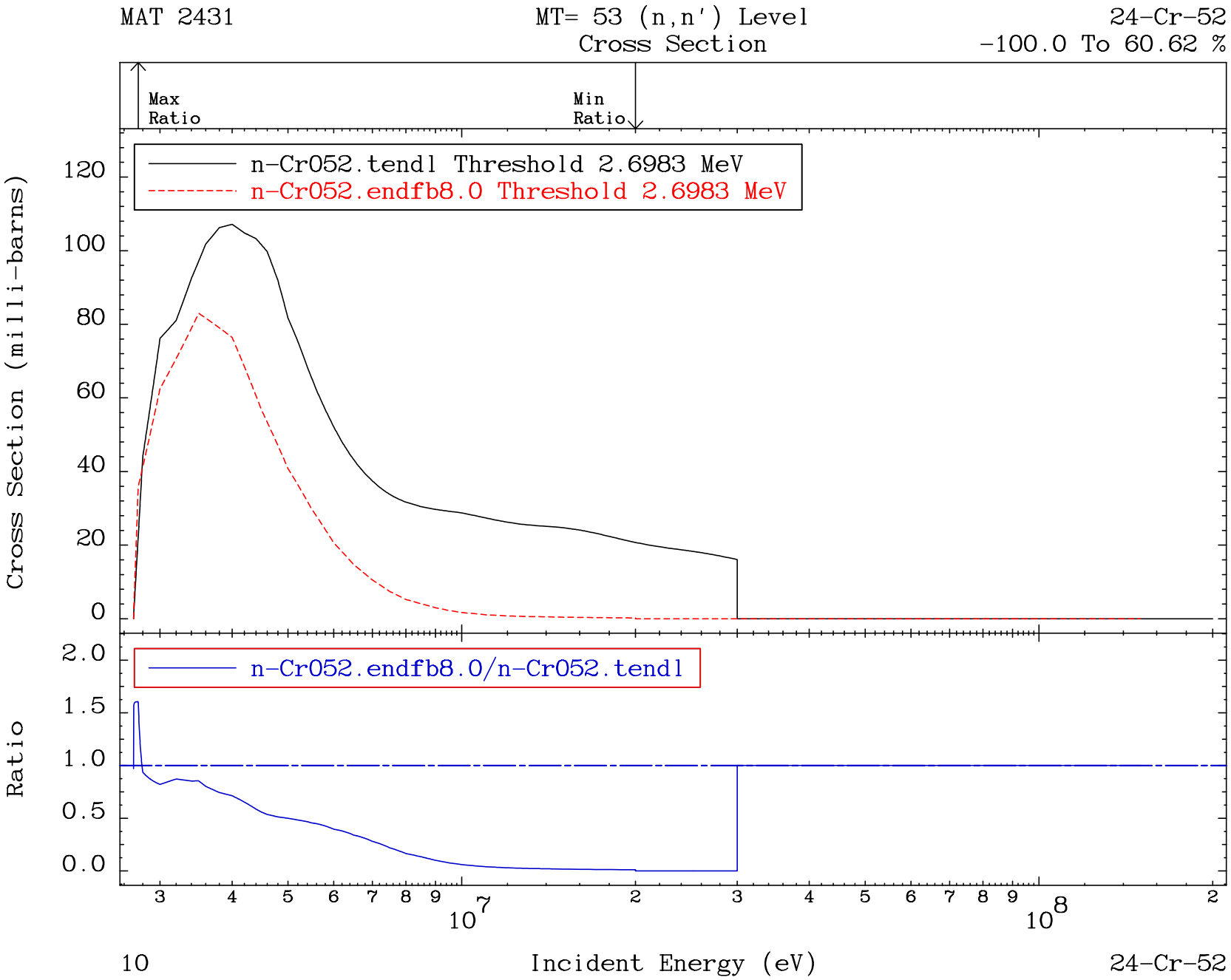

MAT 2431
(n,2n)
Cross Section
24-Cr-52
-100.0 To 43.68 %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 12.273 MeV
n-Cr052.endfb8.0 Threshold 12.273 MeV
Cross Section (milli-barns)
600
400
200
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
1.5
1.0
0.5
0.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
24-Cr-52

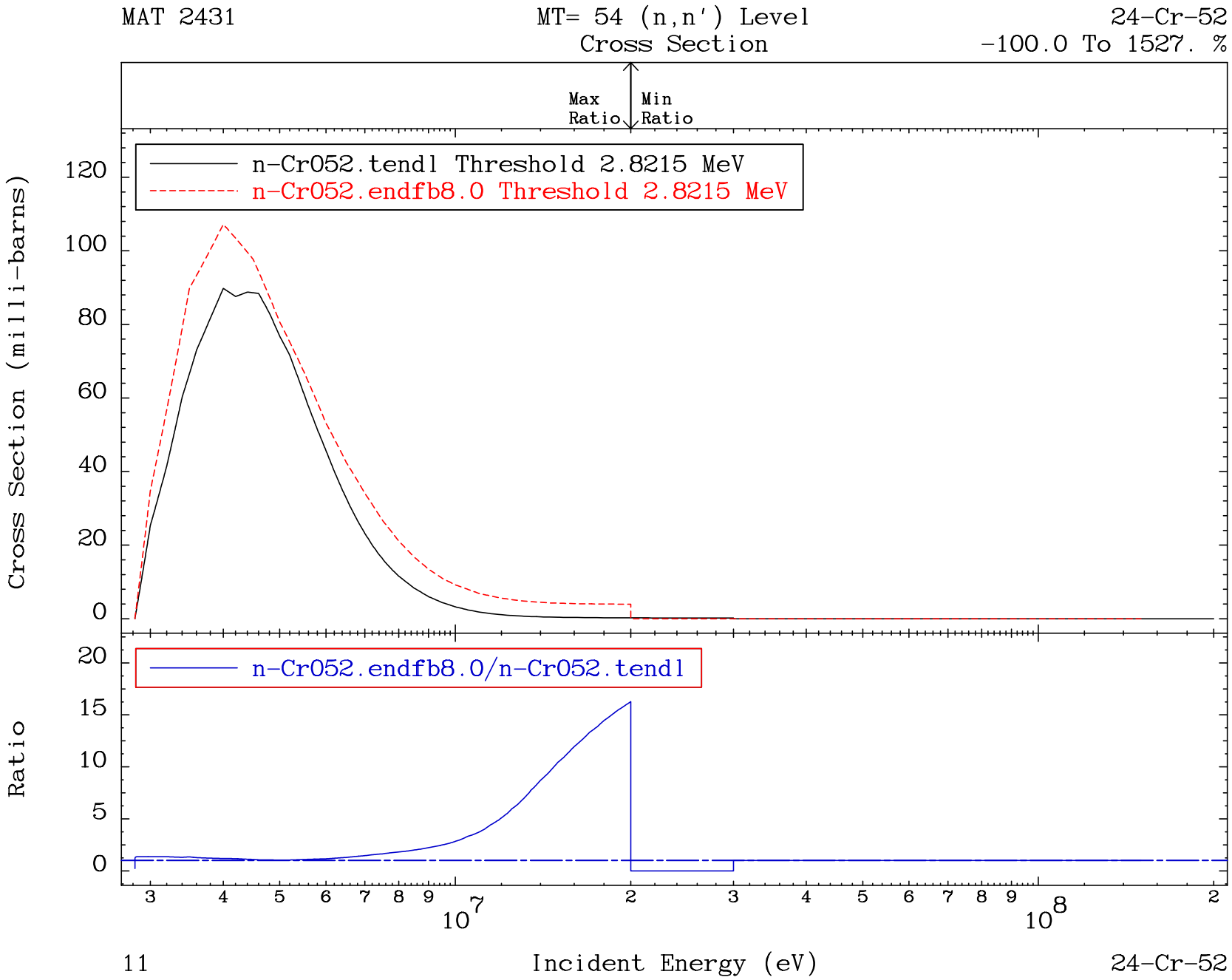

MAT 2431
(n,n') α
Cross Section
24-Cr-52
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 9.5331 MeV
n-Cr052.endfb8.0 Threshold 9.5346 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
400
200
0
10^7
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
24-Cr-52

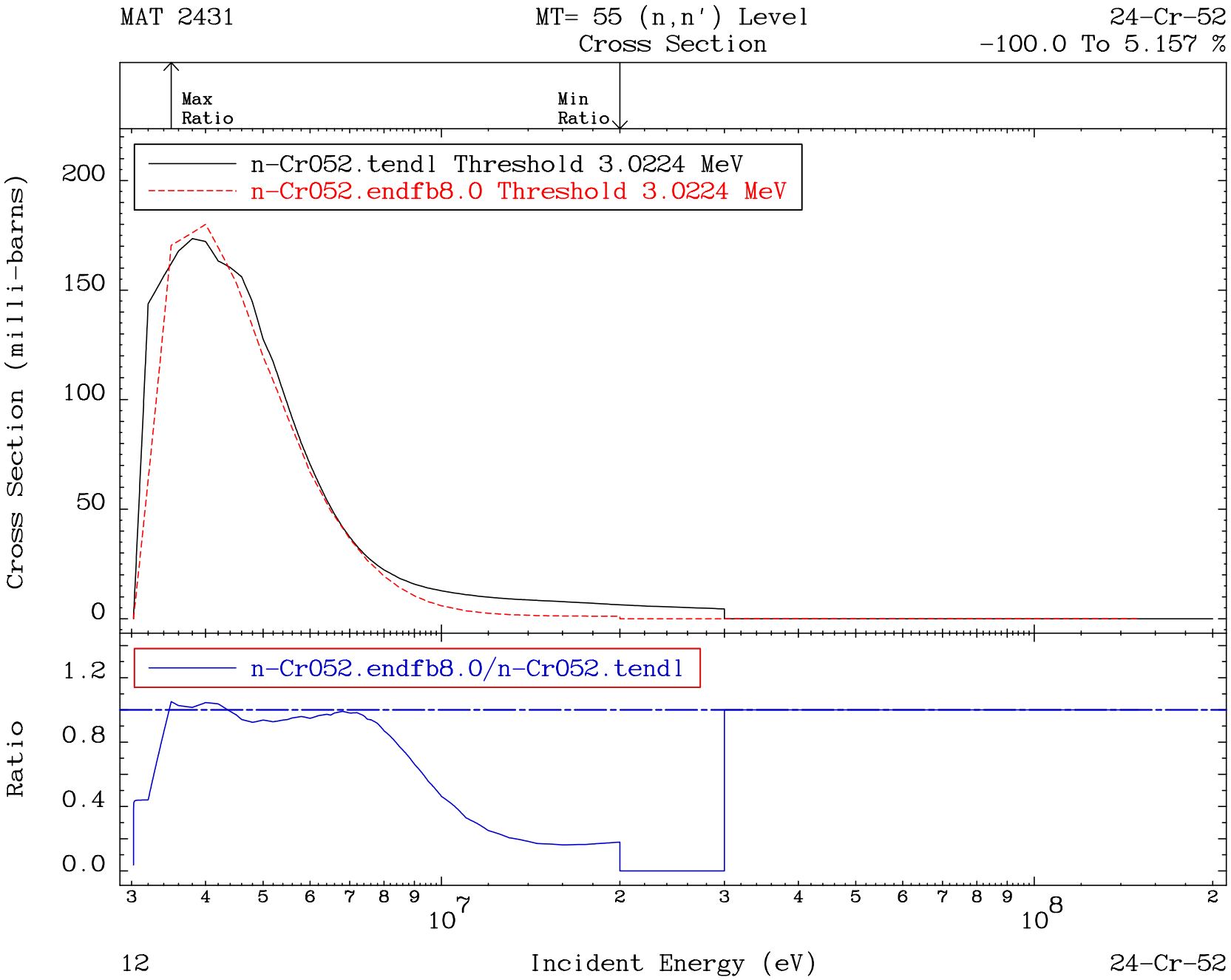

MAT 2431
(n,n') p
Cross Section
24-Cr-52
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 10.708 MeV
n-Cr052.endfb8.0 Threshold 10.708 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
800
600
400
200
0
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
24-Cr-52

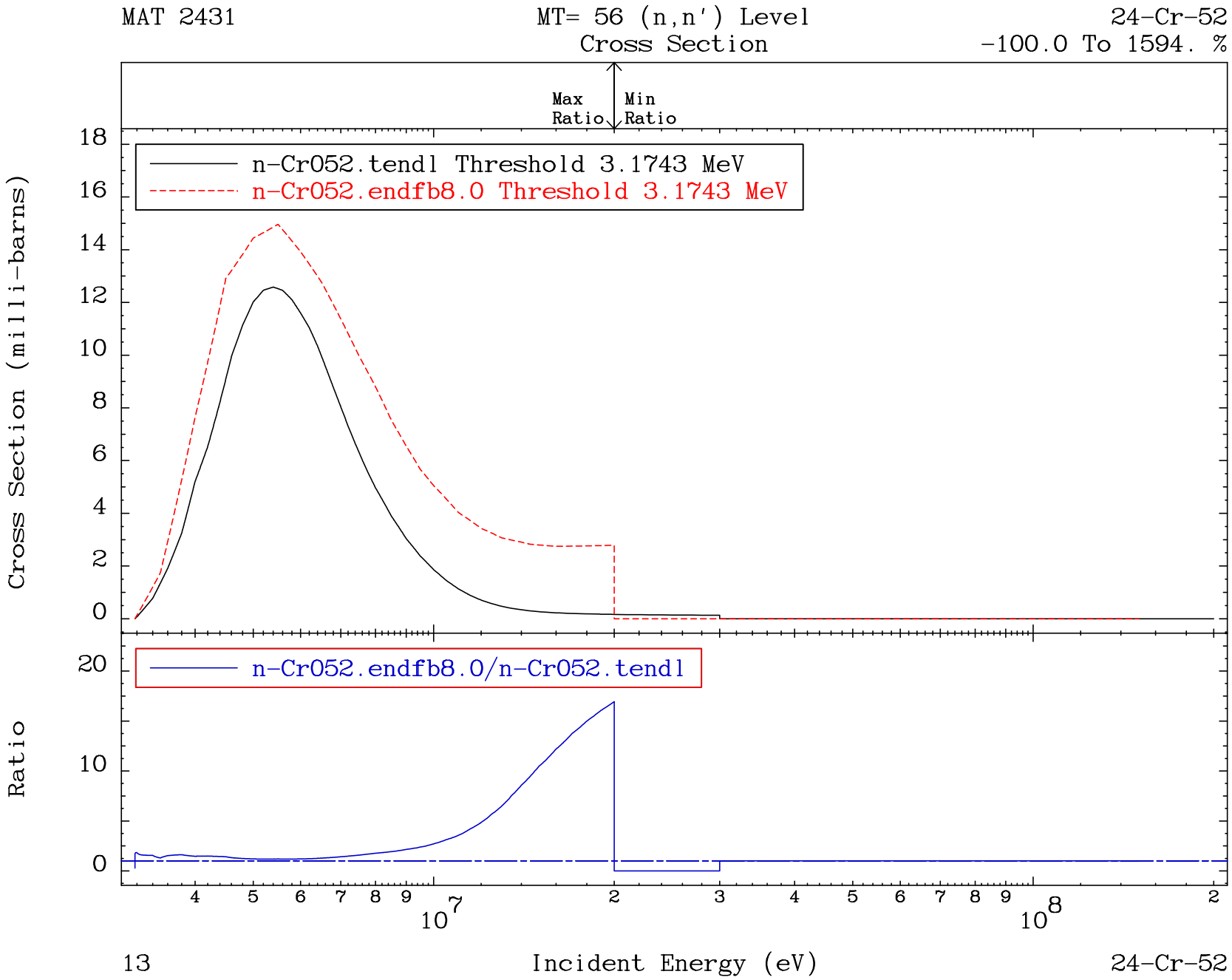

MAT 2431
MT= 51 (n,n') Level
Cross Section
24-Cr-52
-100.0 To 309.0 %
Max
Ratio
Min
Ratio
n-Cr052.tendl Threshold 1.4619 MeV
n-Cr052.endfb8.0 Threshold 1.4619 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
4
2
0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
8
Incident Energy (eV)
24-Cr-52

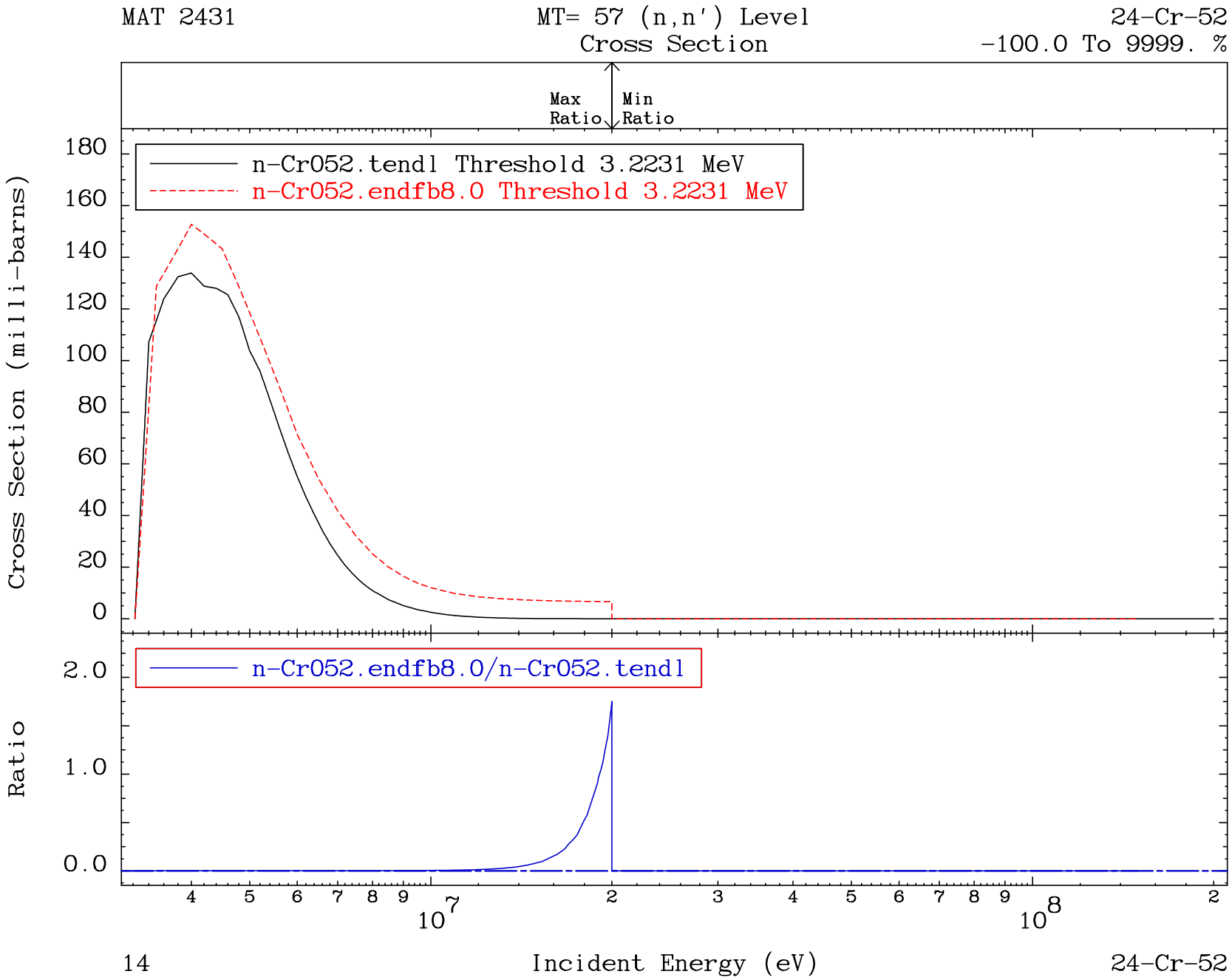

MAT 2431
MT= 52 (n,n') Level
Cross Section
24-Cr-52
-100.0 To 73.22 %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 2.4157 MeV
n-Cr052.endfb8.0 Threshold 2.4160 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
2.0
1.0
0.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
24-Cr-52

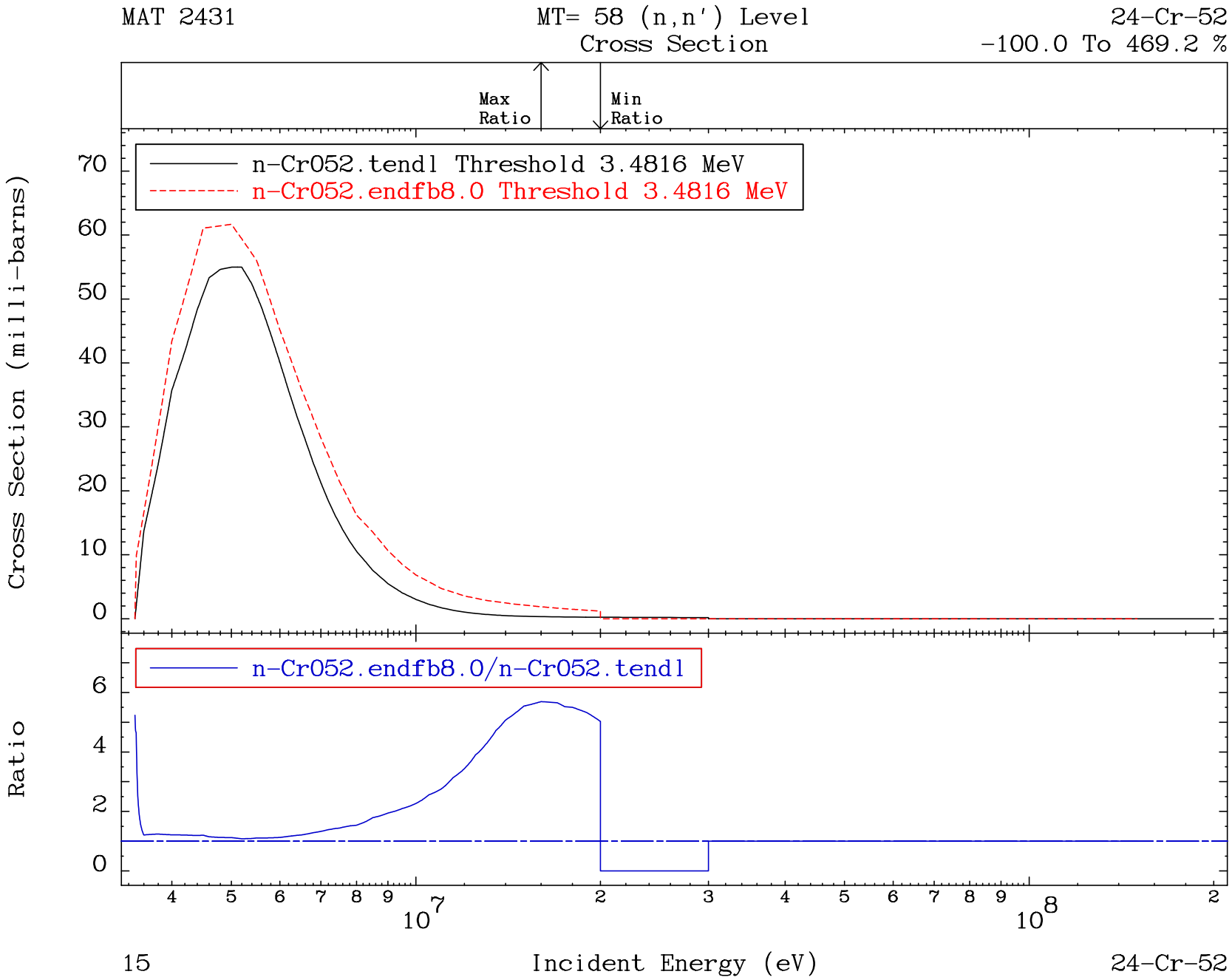

MAT 2431
MT= 53 (n,n') Level
Cross Section
24-Cr-52
-100.0 To 60.62 %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 2.6983 MeV
n-Cr052.endfb8.0 Threshold 2.6983 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
2.0
1.5
1.0
0.5
0.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
24-Cr-52

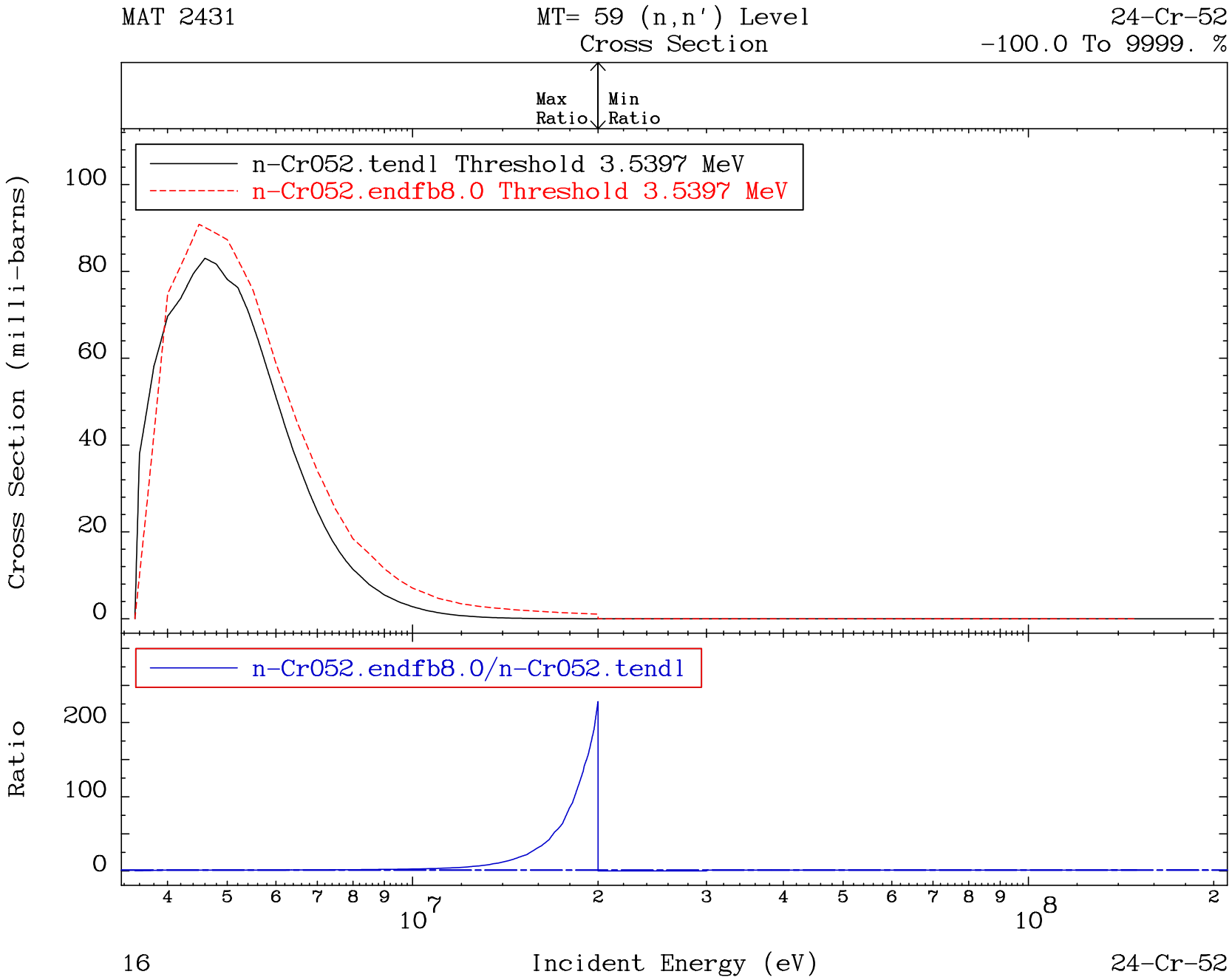

MAT 2431
MT= 54 (n,n') Level
Cross Section
24-Cr-52
-100.0 To 1527. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 2.8215 MeV
n-Cr052.endfb8.0 Threshold 2.8215 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
20
15
10
5
0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
24-Cr-52

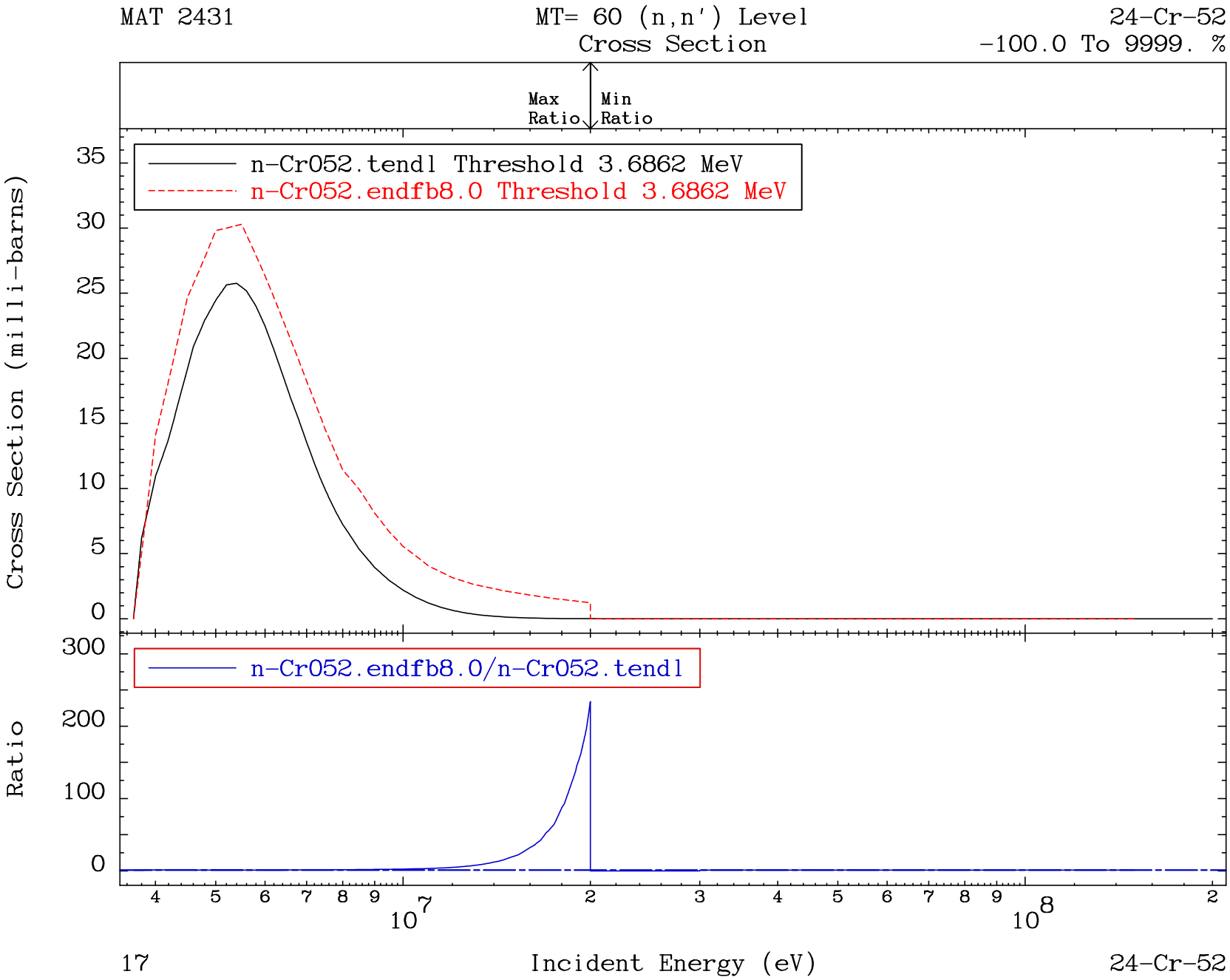

MAT 2431
MT= 55 (n,n') Level
Cross Section
24-Cr-52
-100.0 To 5.157 %
Max
Ratio
Min
Ratio
n-Cr052.tendl Threshold 3.0224 MeV
n-Cr052.endfb8.0 Threshold 3.0224 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
1.2
0.8
0.4
0.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
24-Cr-52

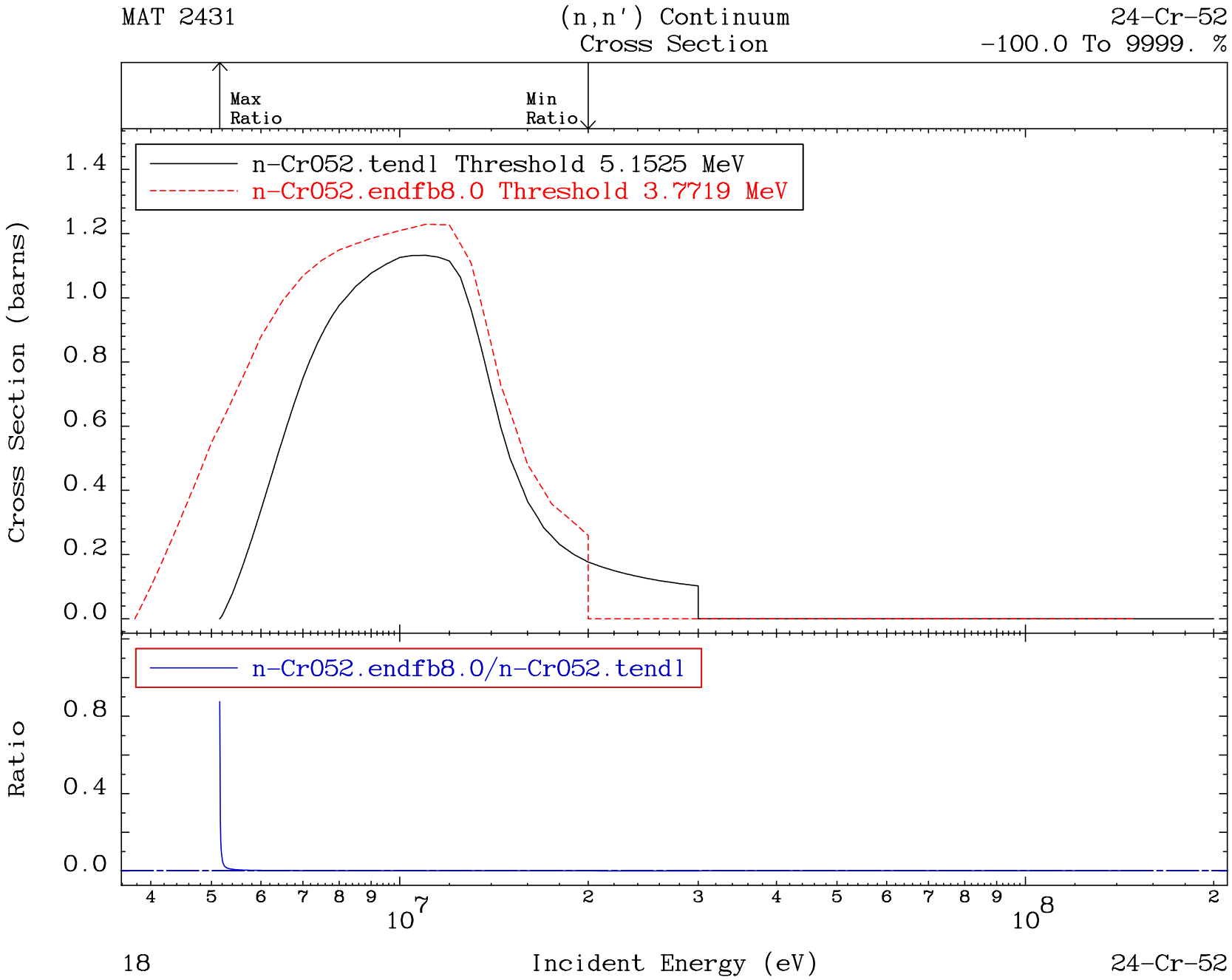

MAT 2431
MT= 56 (n,n') Level
Cross Section
24-Cr-52
-100.0 To 1594. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 3.1743 MeV
n-Cr052.endfb8.0 Threshold 3.1743 MeV
Cross Section (milli-barns)
18
16
14
12
10
8
6
4
2
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
20
10
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
24-Cr-52

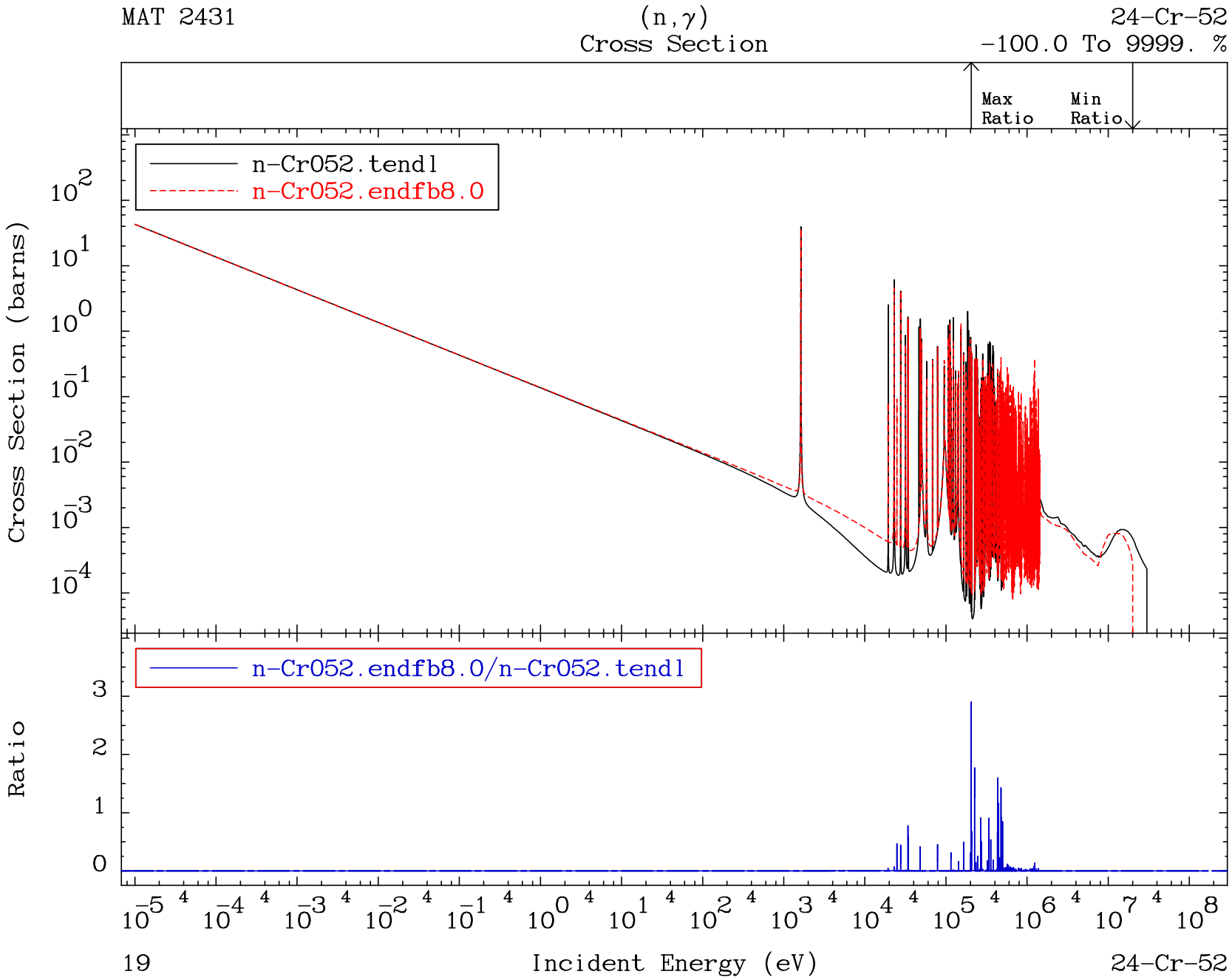

MAT 2431
MT= 57 (n,n') Level
Cross Section
24-Cr-52
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 3.2231 MeV
n-Cr052.endfb8.0 Threshold 3.2231 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
2.0
1.0
0.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
24-Cr-52

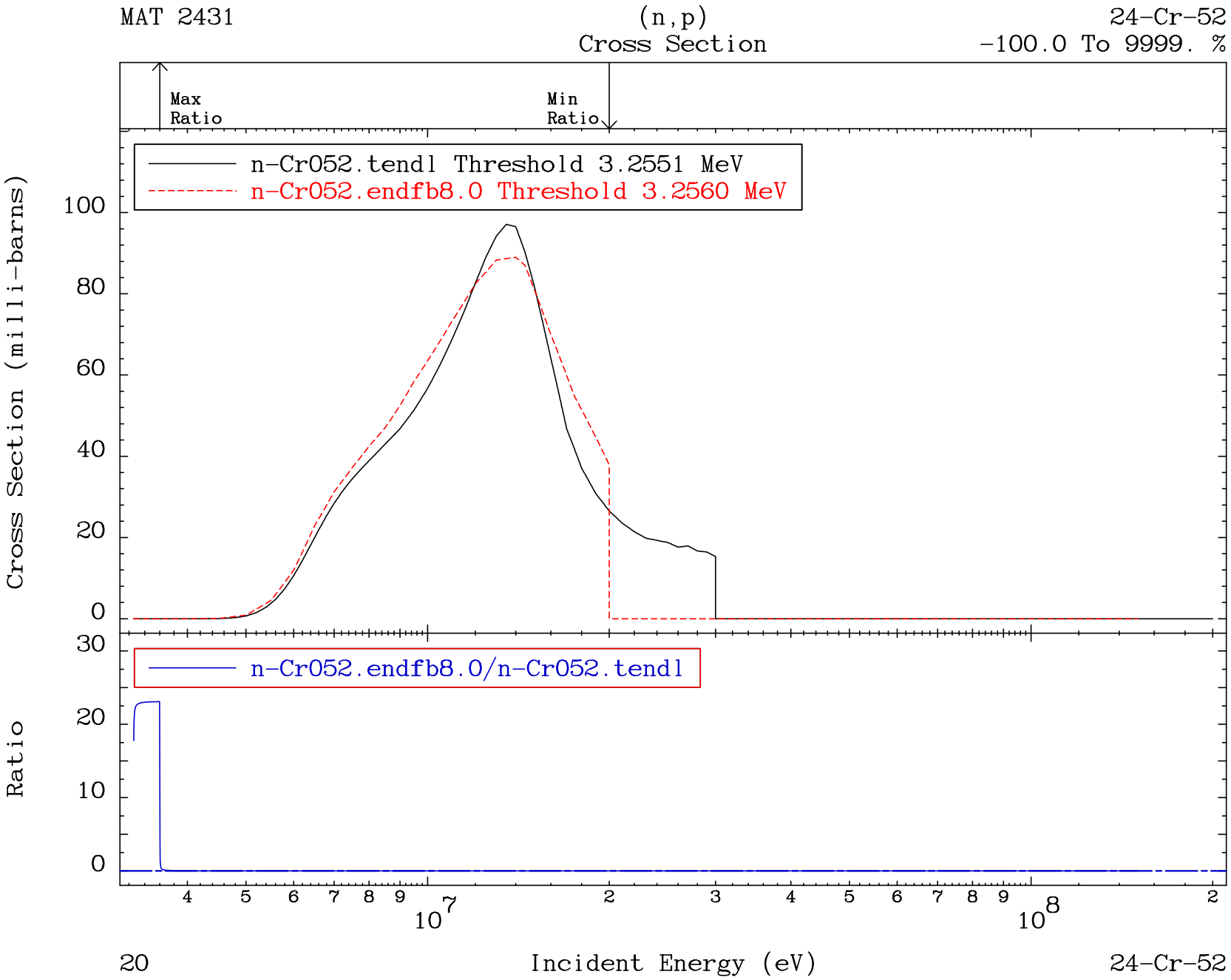

MAT 2431
MT= 58 (n,n') Level
Cross Section
24-Cr-52
-100.0 To 469.2 %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 3.4816 MeV
n-Cr052.endfb8.0 Threshold 3.4816 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
6
4
2
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
24-Cr-52

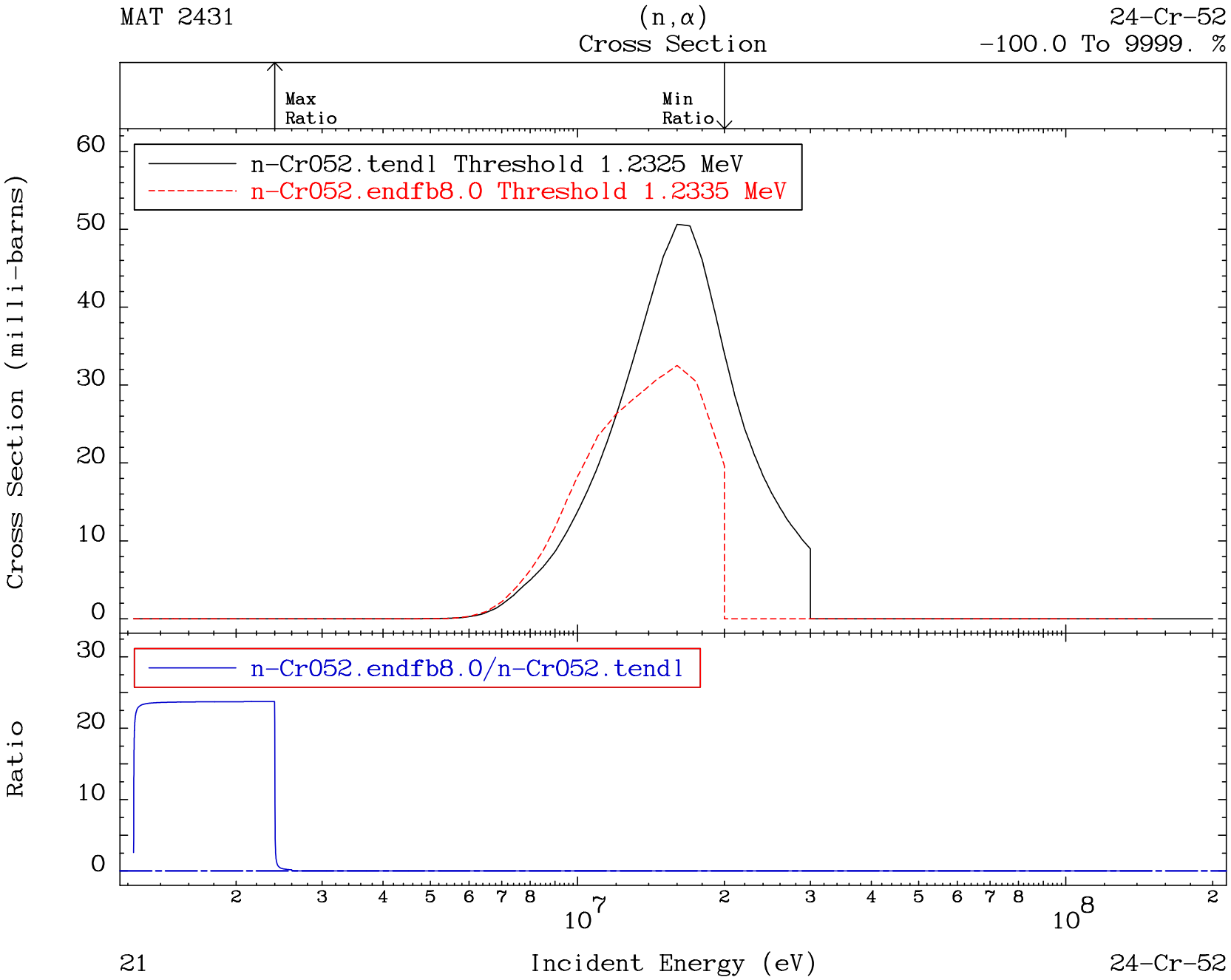

MAT 2431
MT= 59 (n,n') Level
Cross Section
24-Cr-52
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 3.5397 MeV
n-Cr052.endfb8.0 Threshold 3.5397 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
200
100
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
24-Cr-52

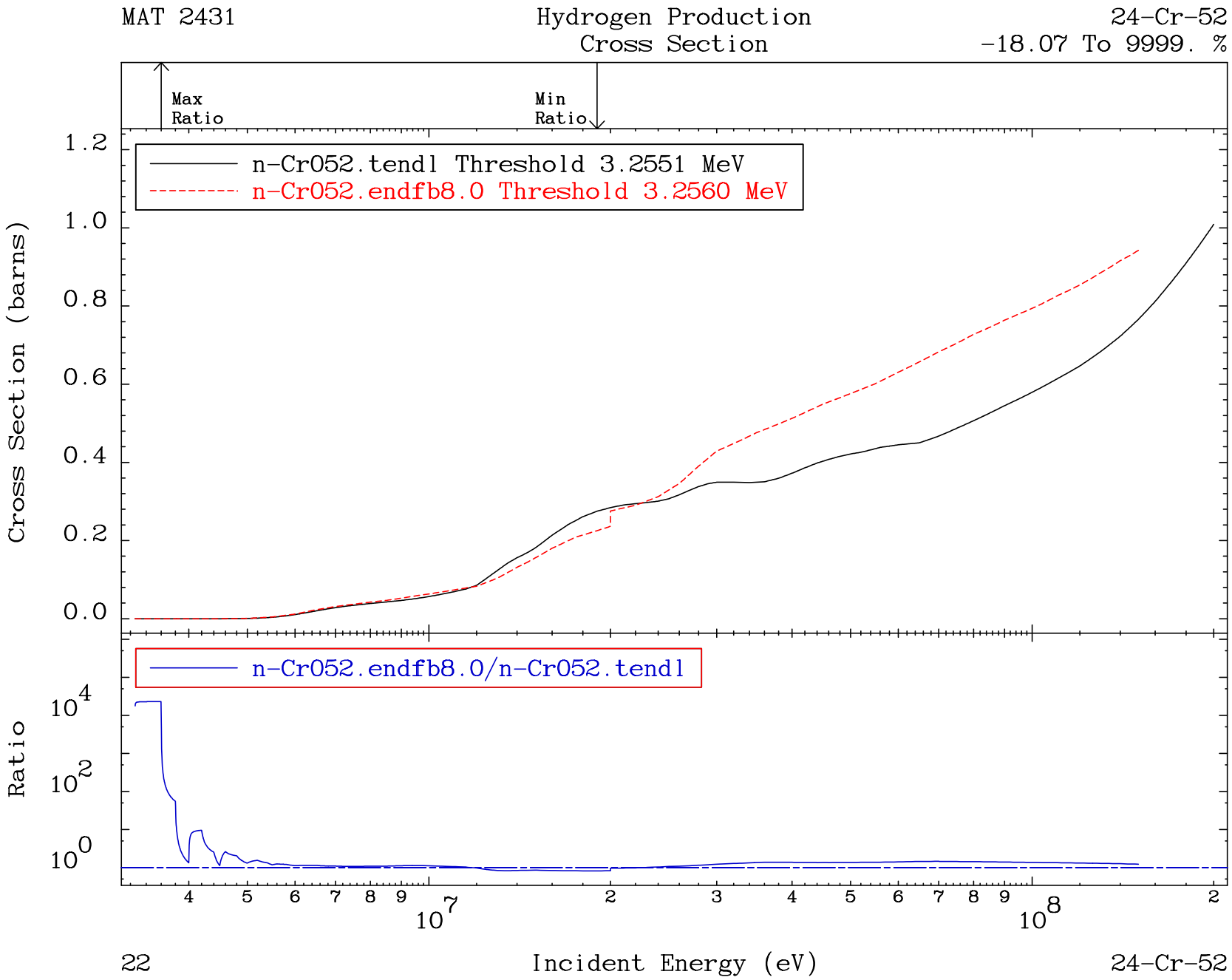

MAT 2431
MT= 60 (n,n') Level
Cross Section
24-Cr-52
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 3.6862 MeV
n-Cr052.endfb8.0 Threshold 3.6862 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
300
200
100
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
24-Cr-52

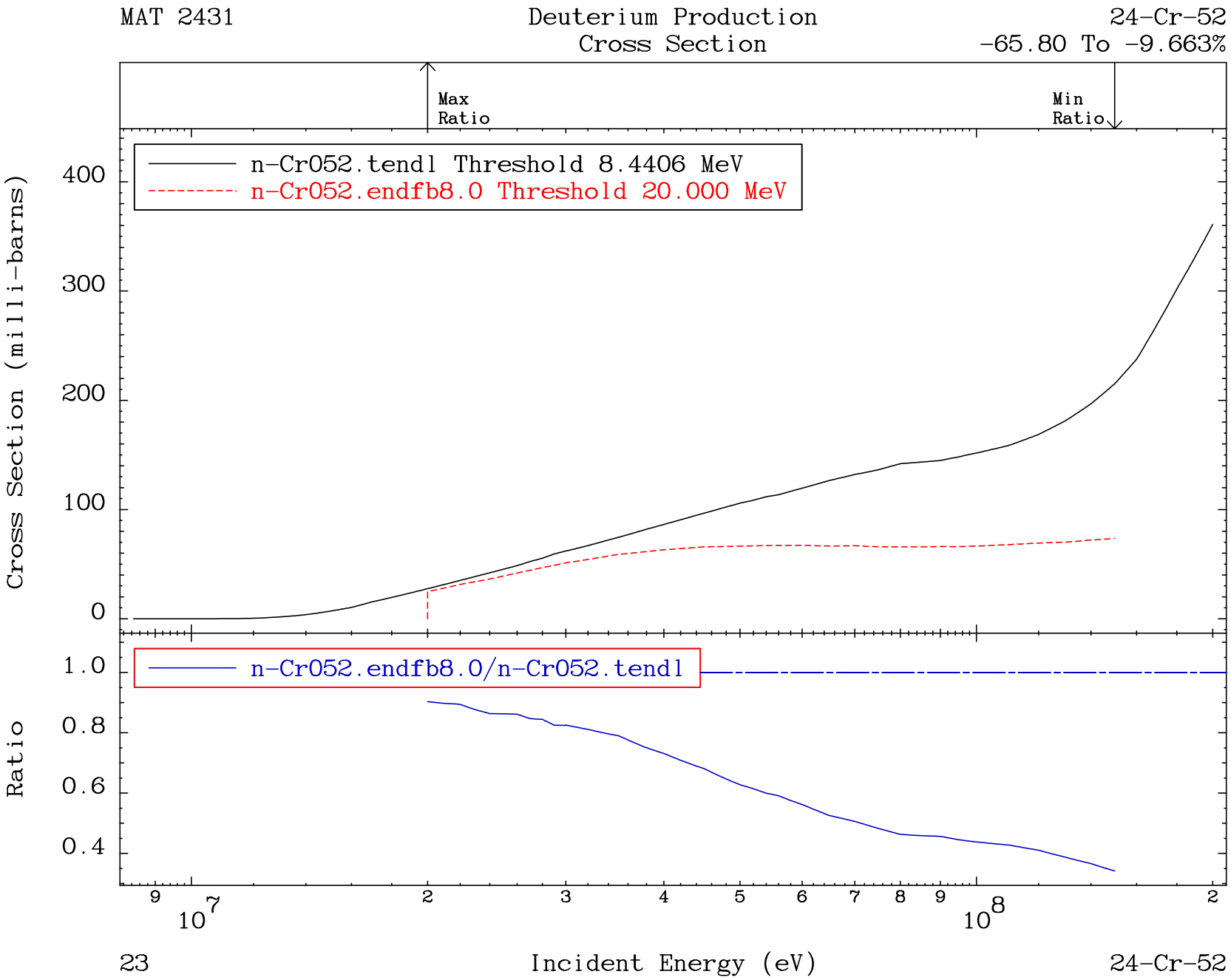

MAT 2431
(n,n') Continuum
Cross Section
24-Cr-52
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 5.1525 MeV
n-Cr052.endfb8.0 Threshold 3.7719 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
0.8
0.4
0.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
24-Cr-52

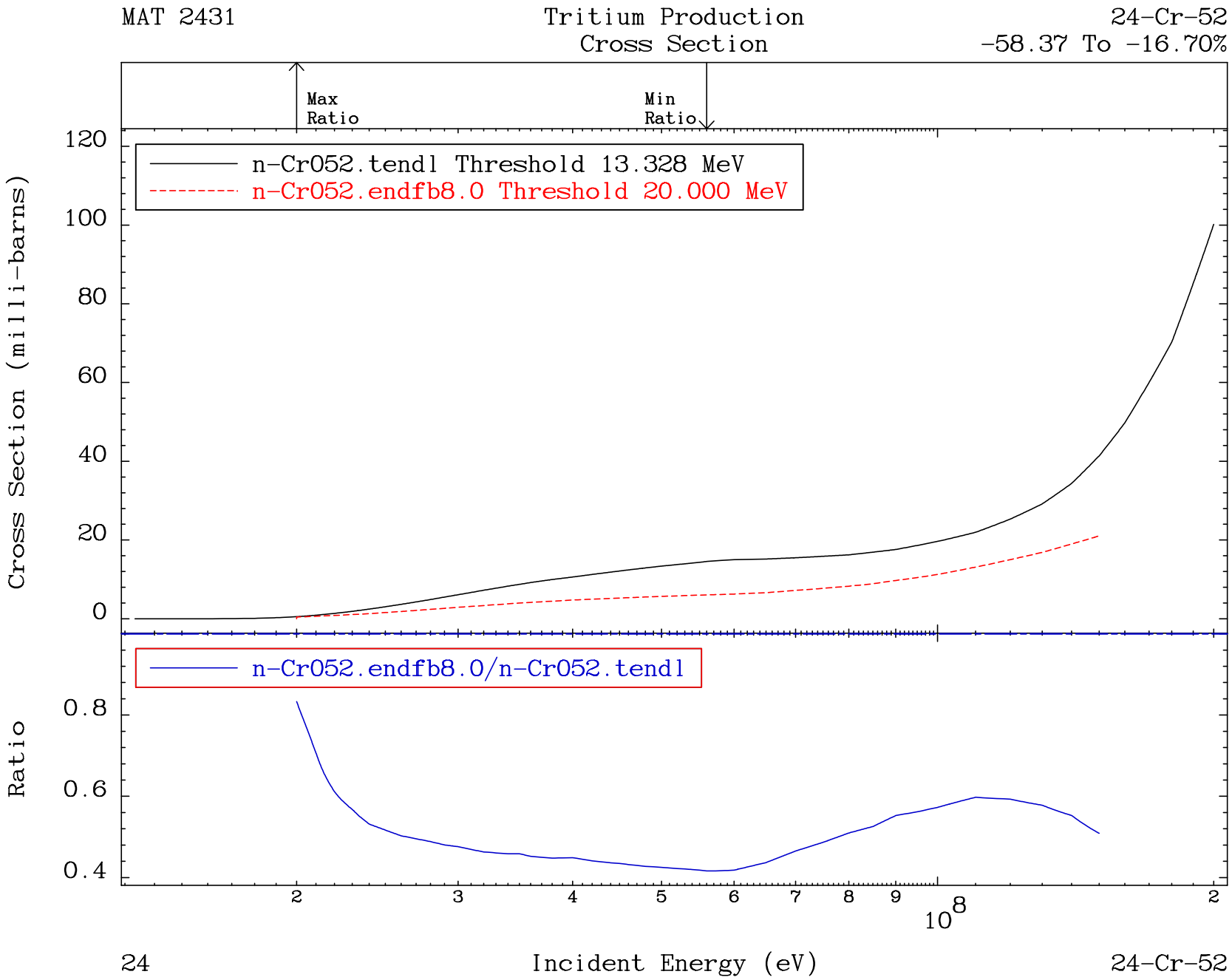

MAT 2431
(n,γ)
Cross Section
24-Cr-52
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl
n-Cr052.endfb8.0
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
19
24-Cr-52

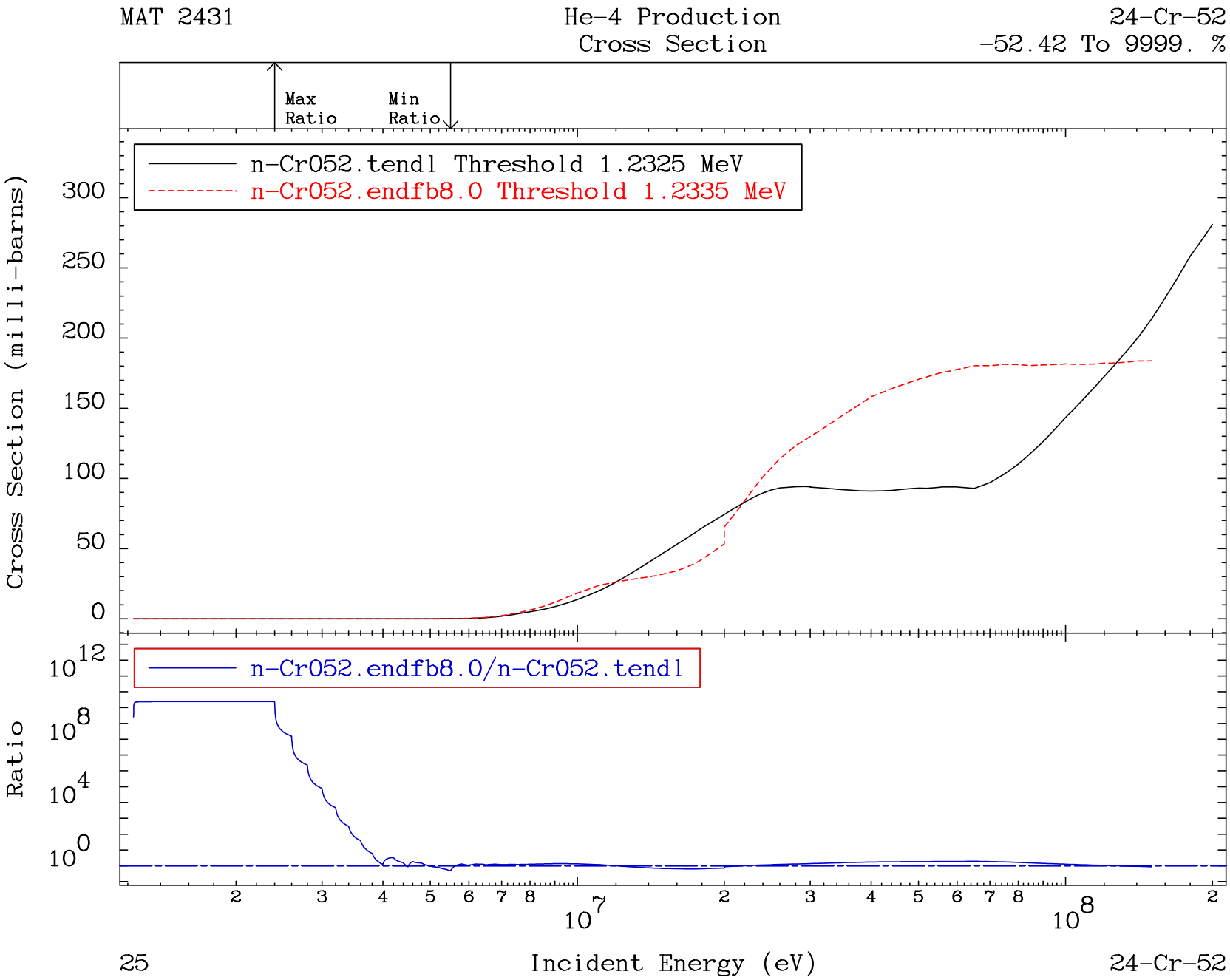

MAT 2431
(n,p)
Cross Section
24-Cr-52
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 3.2551 MeV
n-Cr052.endfb8.0 Threshold 3.2560 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
30
20
10
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
24-Cr-52

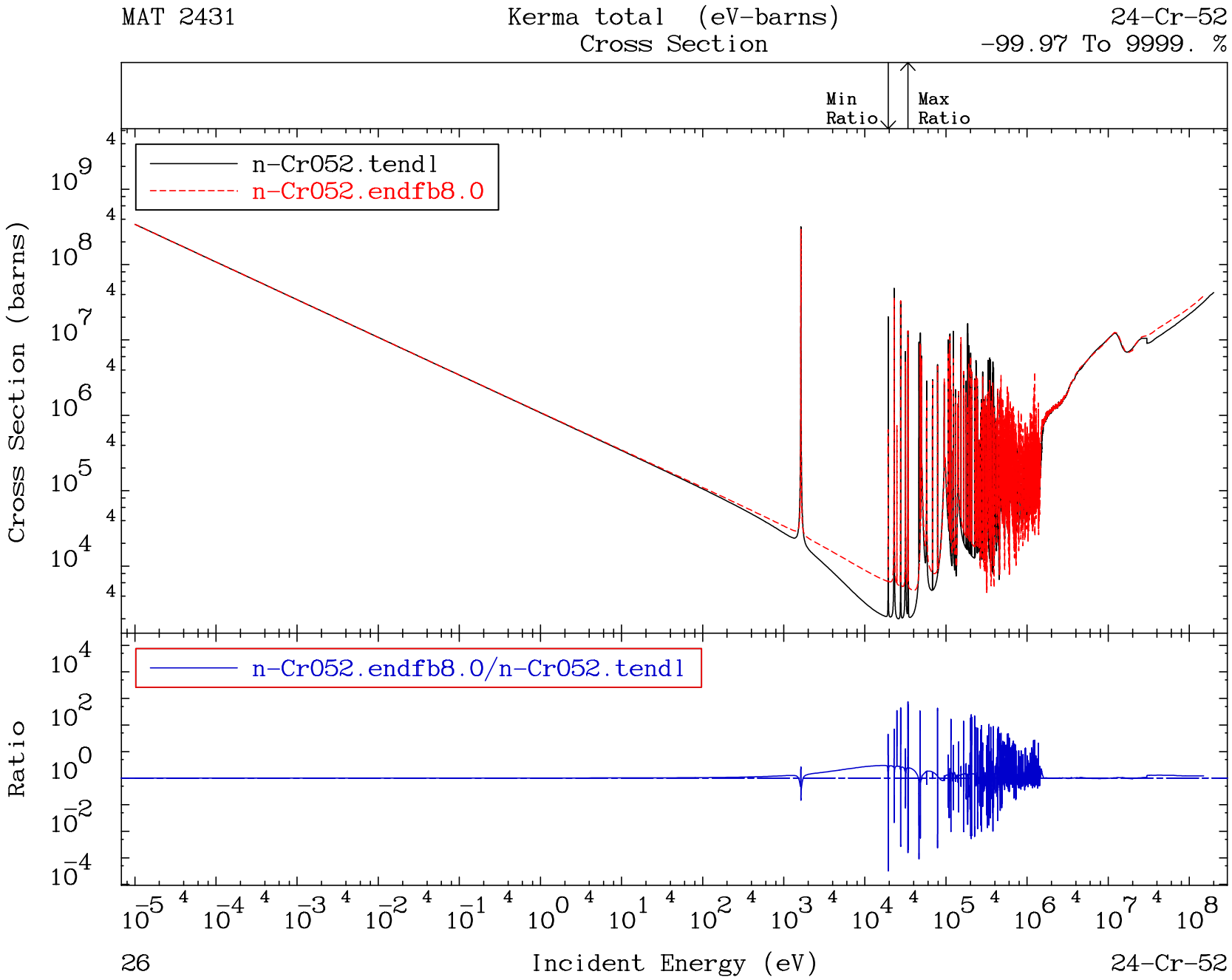

MAT 2431
(n,α)
Cross Section
24-Cr-52
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 1.2325 MeV
n-Cr052.endfb8.0 Threshold 1.2335 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
30
20
10
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
24-Cr-52

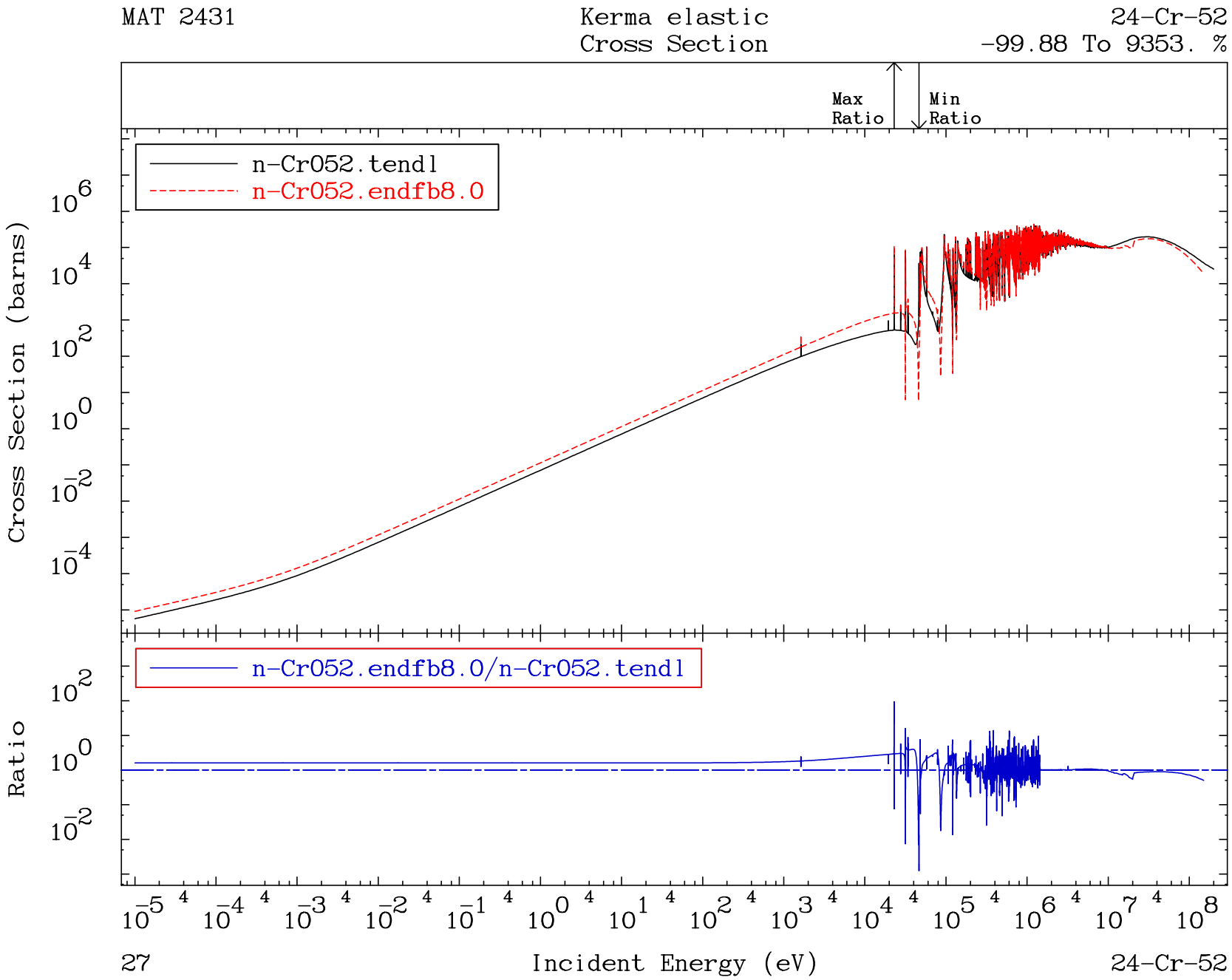

MAT 2431
Hydrogen Production
Cross Section
24-Cr-52
-18.07 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 3.2551 MeV
n-Cr052.endfb8.0 Threshold 3.2560 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
24-Cr-52

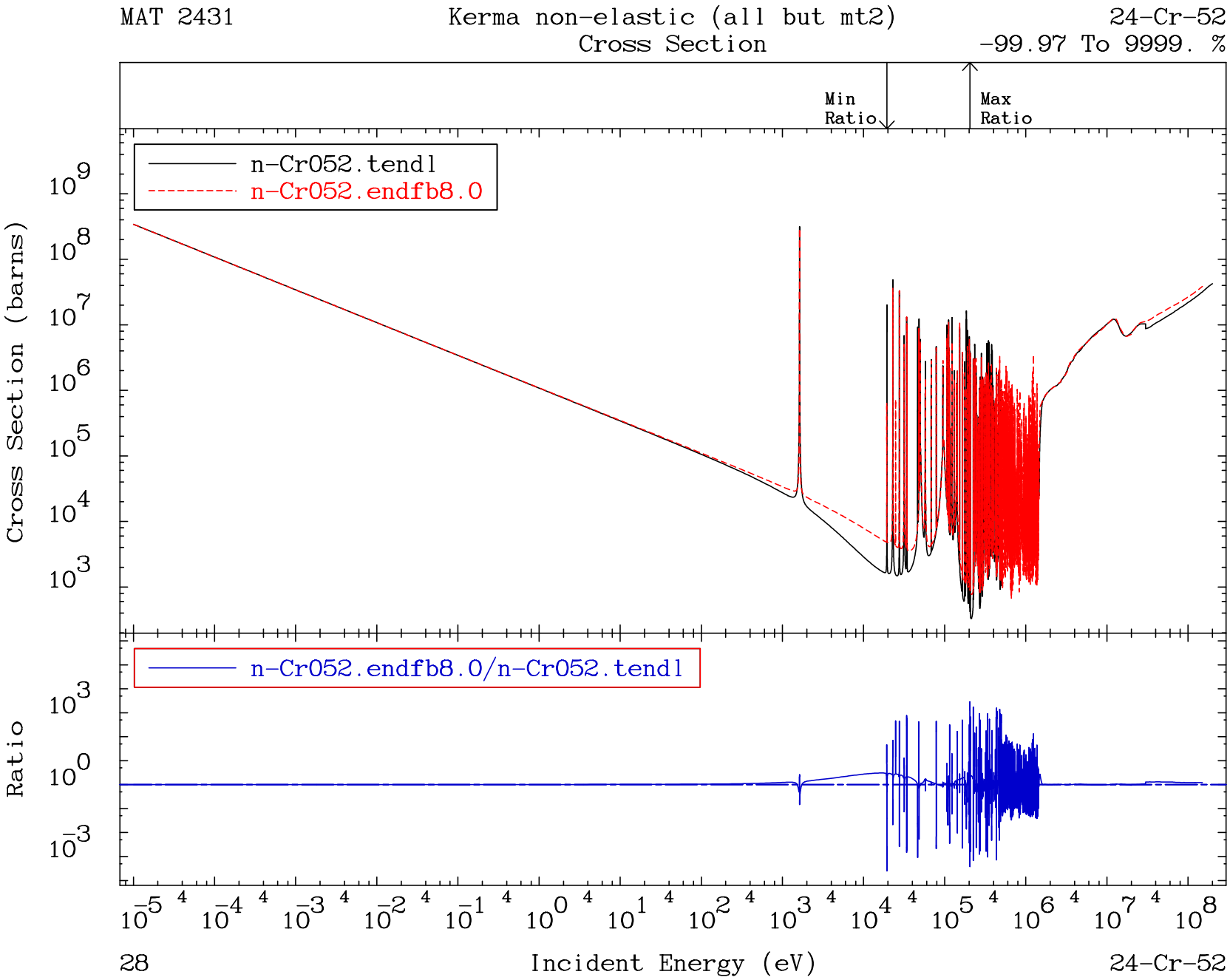

MAT 2431
Deuterium Production
Cross Section
24-Cr-52
-65.80 To -9.663%
Max
Ratio
Min
Ratio
n-Cr052.tendl Threshold 8.4406 MeV
n-Cr052.endfb8.0 Threshold 20.000 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
1.0
0.8
0.6
0.4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
23
Incident Energy (eV)
24-Cr-52

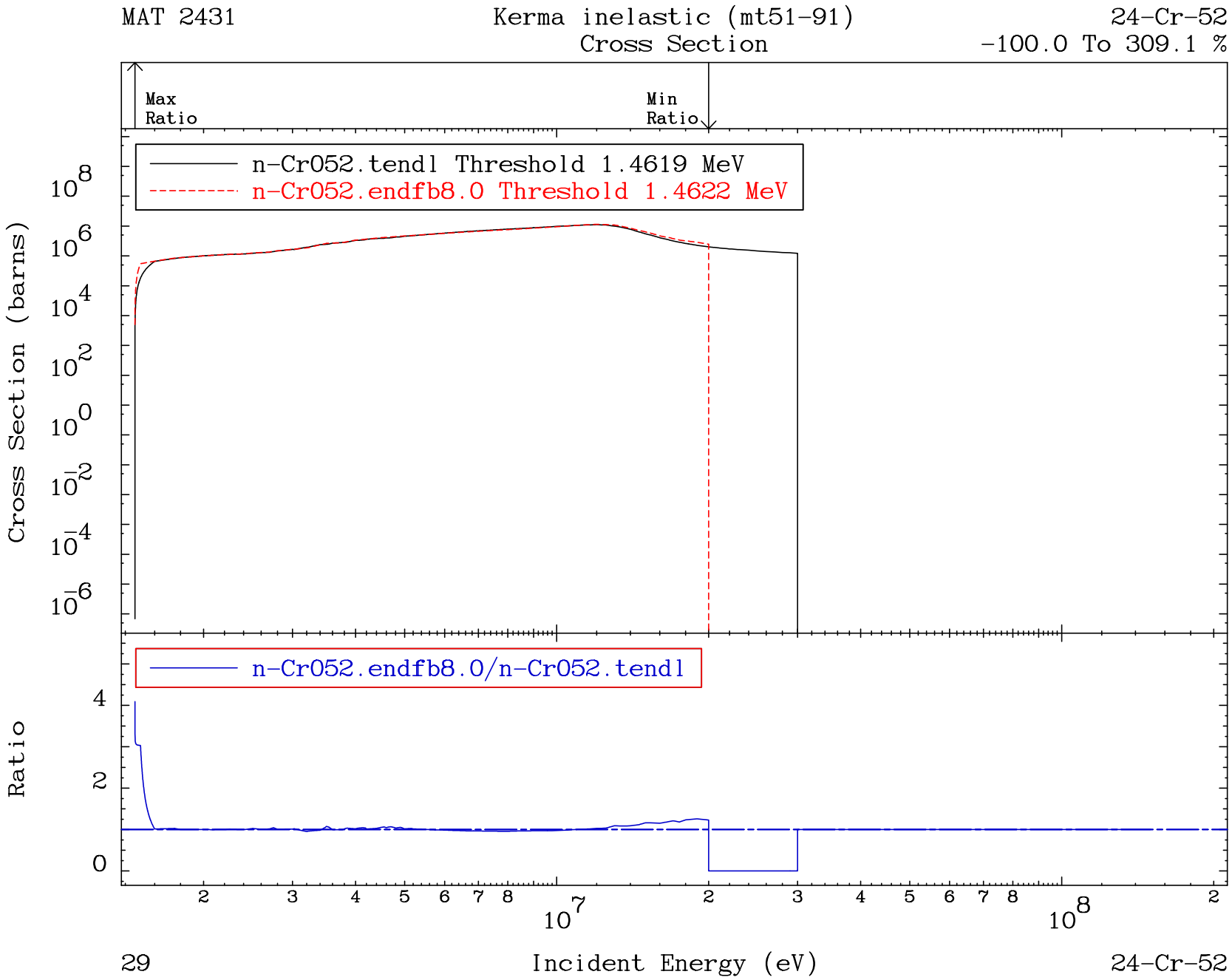

MAT 2431
Tritium Production
Cross Section
24-Cr-52
-58.37 To -16.70%
Max
Ratio
Min
Ratio
n-Cr052.tendl Threshold 13.328 MeV
n-Cr052.endfb8.0 Threshold 20.000 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
0.8
0.6
0.4
2
3
4
5
6
7
8
9
10^8
2
24
Incident Energy (eV)
24-Cr-52

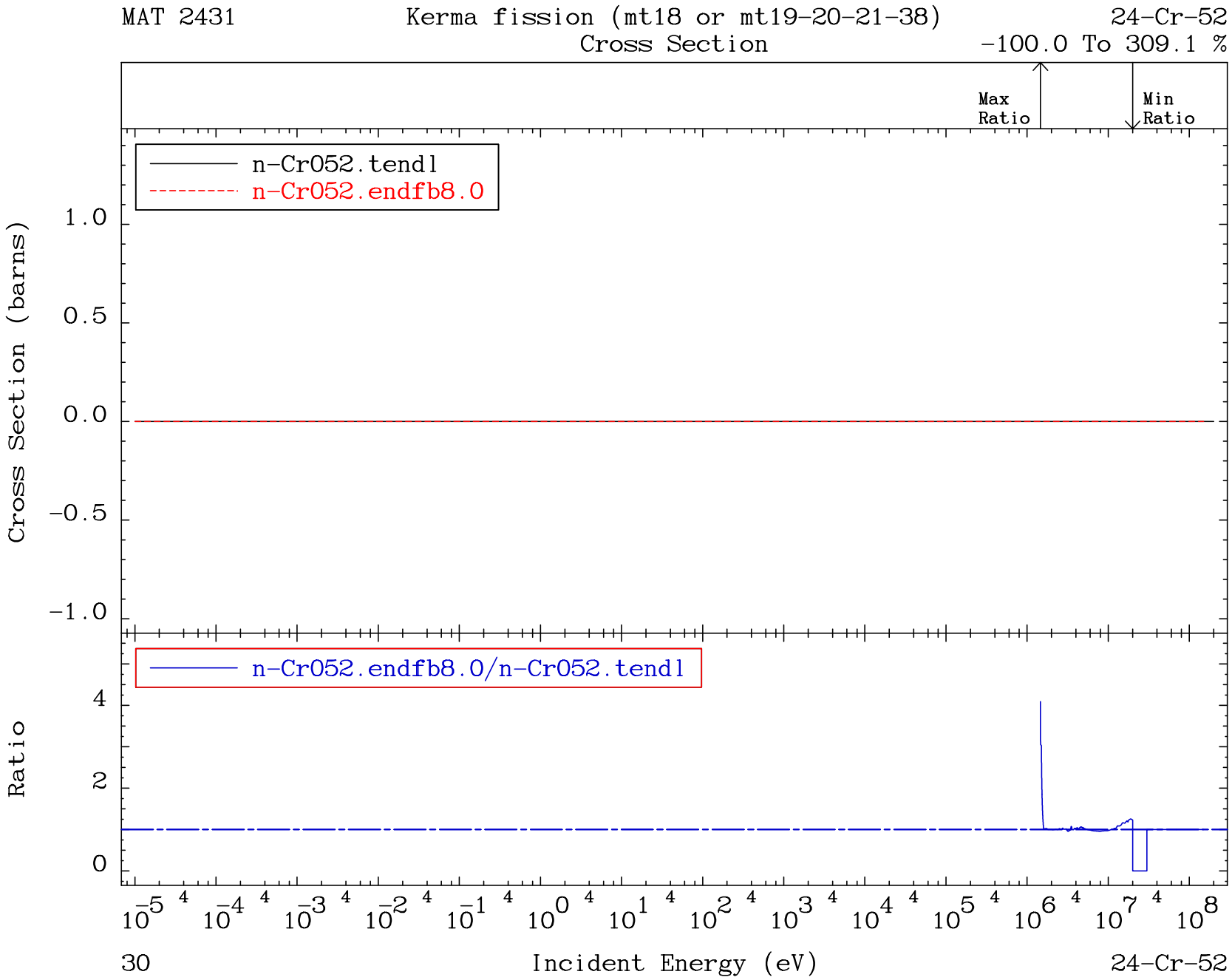

MAT 2431
He-4 Production
Cross Section
24-Cr-52
-52.42 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 1.2325 MeV
n-Cr052.endfb8.0 Threshold 1.2335 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
10^12
10^8
10^4
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
24-Cr-52

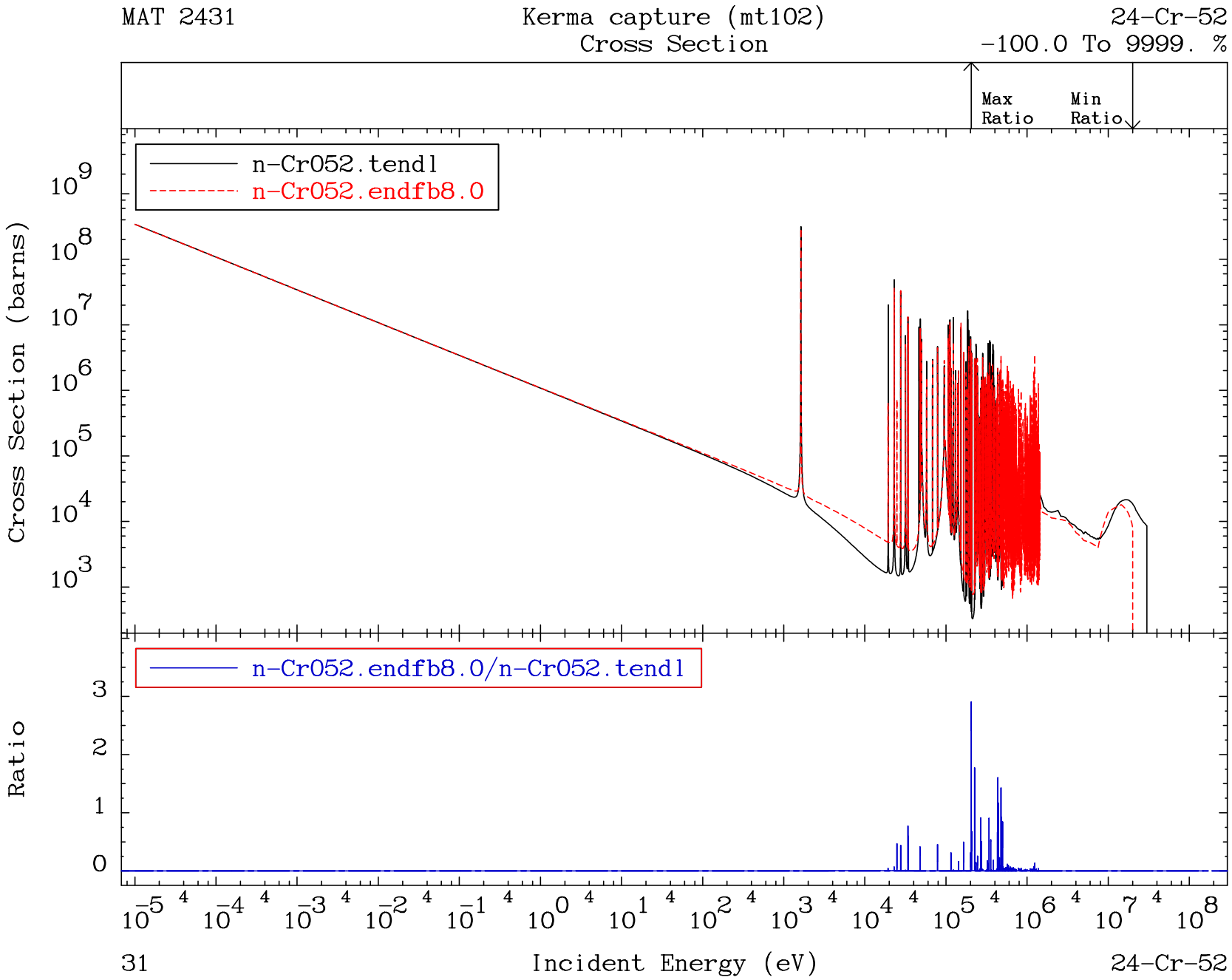

MAT 2431
Kerma total (eV-barns)
Cross Section
24-Cr-52
-99.97 To 9999. %
Min Ratio
Max Ratio
n-Cr052.tendl
n-Cr052.endfb8.0
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
26
24-Cr-52

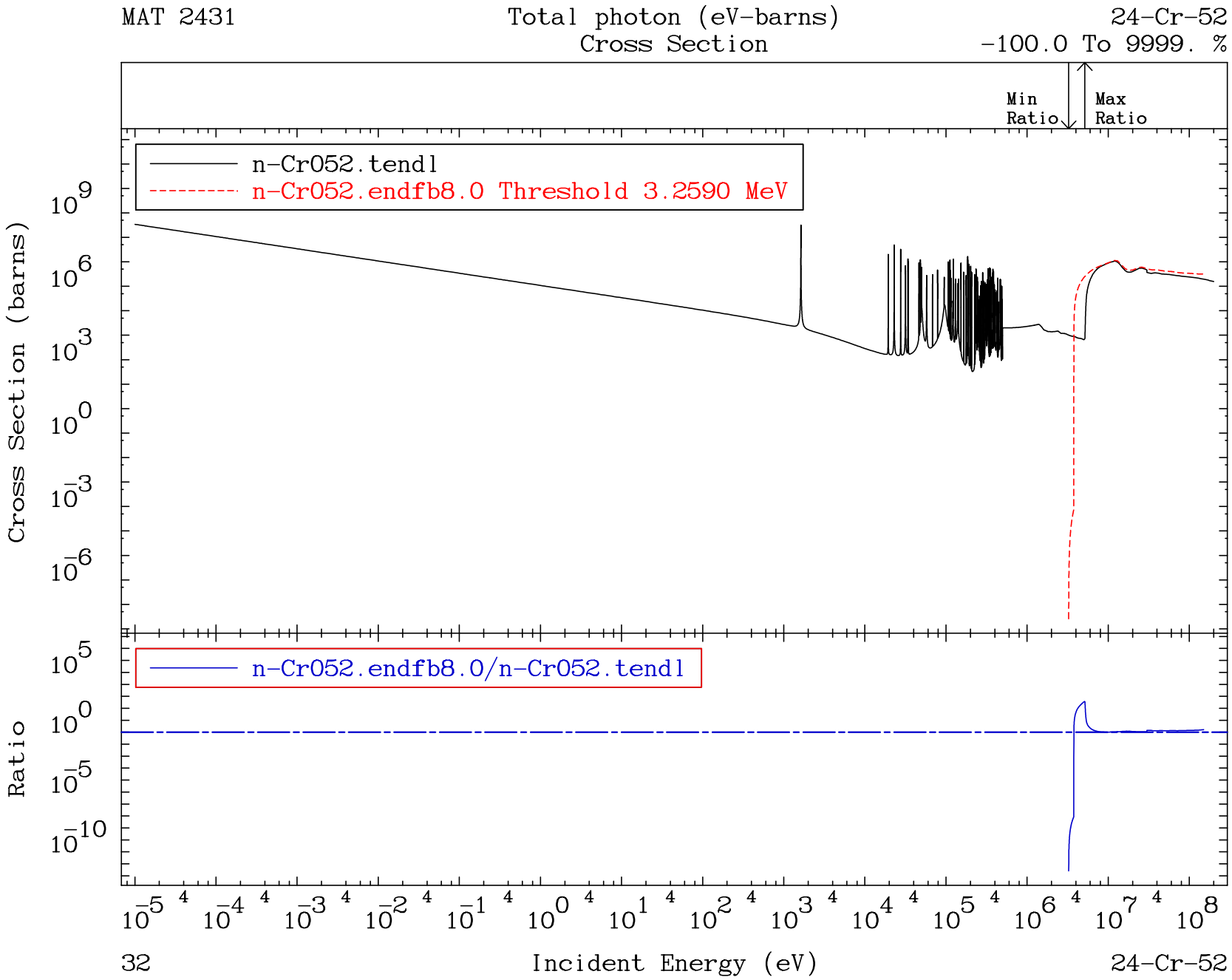

MAT 2431
Kerma elastic
Cross Section
24-Cr-52
-99.88 To 9353. %
Max Ratio
Min Ratio
n-Cr052.tendl
n-Cr052.endfb8.0
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
27
24-Cr-52

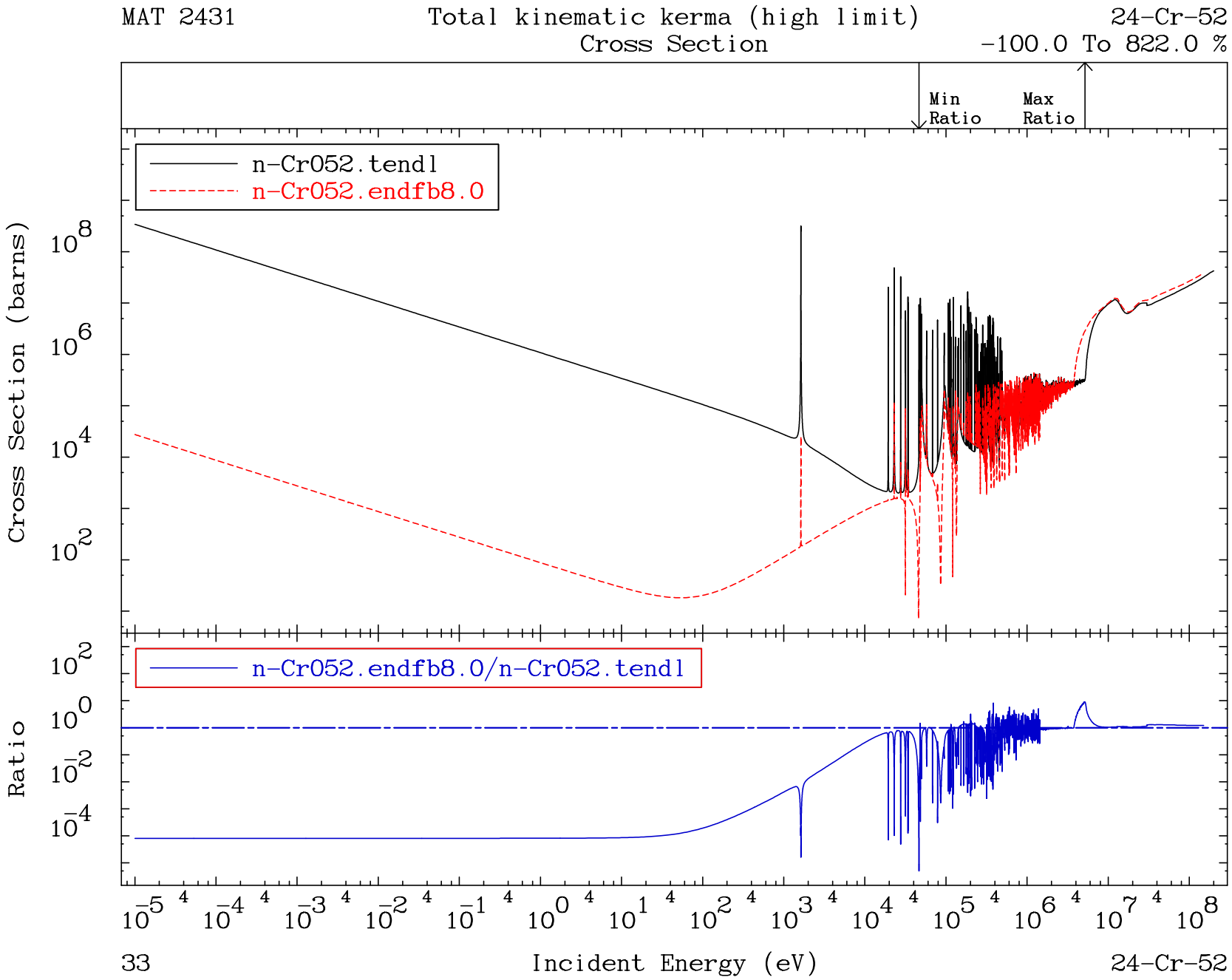

MAT 2431
Kerma non-elastic (all but mt2)
Cross Section
24-Cr-52
-99.97 To 9999. %
Min Ratio
Max Ratio
n-Cr052.tendl
n-Cr052.endfb8.0
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
28
24-Cr-52

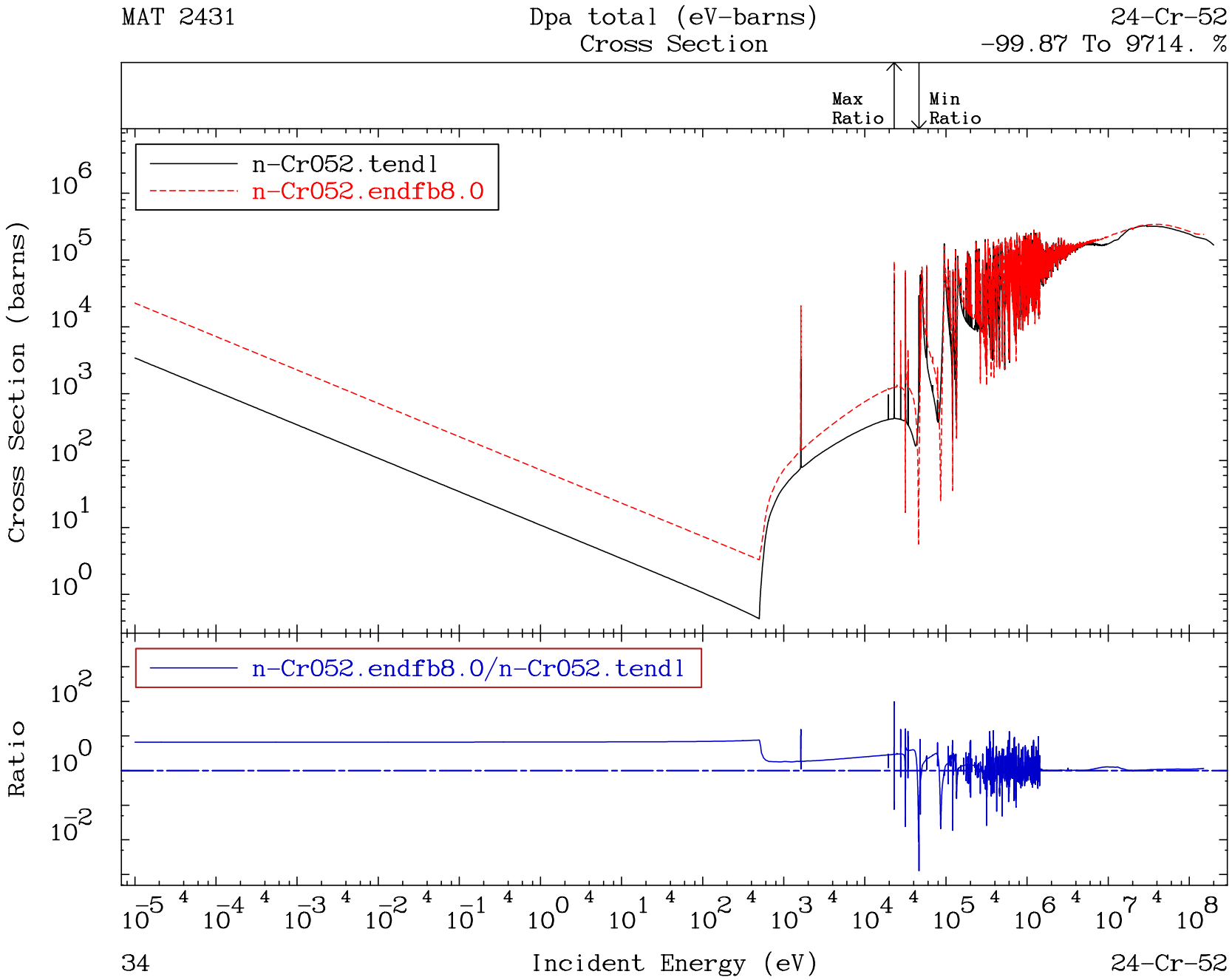

MAT 2431
Kerma inelastic (mt51-91)
Cross Section
24-Cr-52
-100.0 To 309.1 %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 1.4619 MeV
n-Cr052.endfb8.0 Threshold 1.4622 MeV
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
29
24-Cr-52

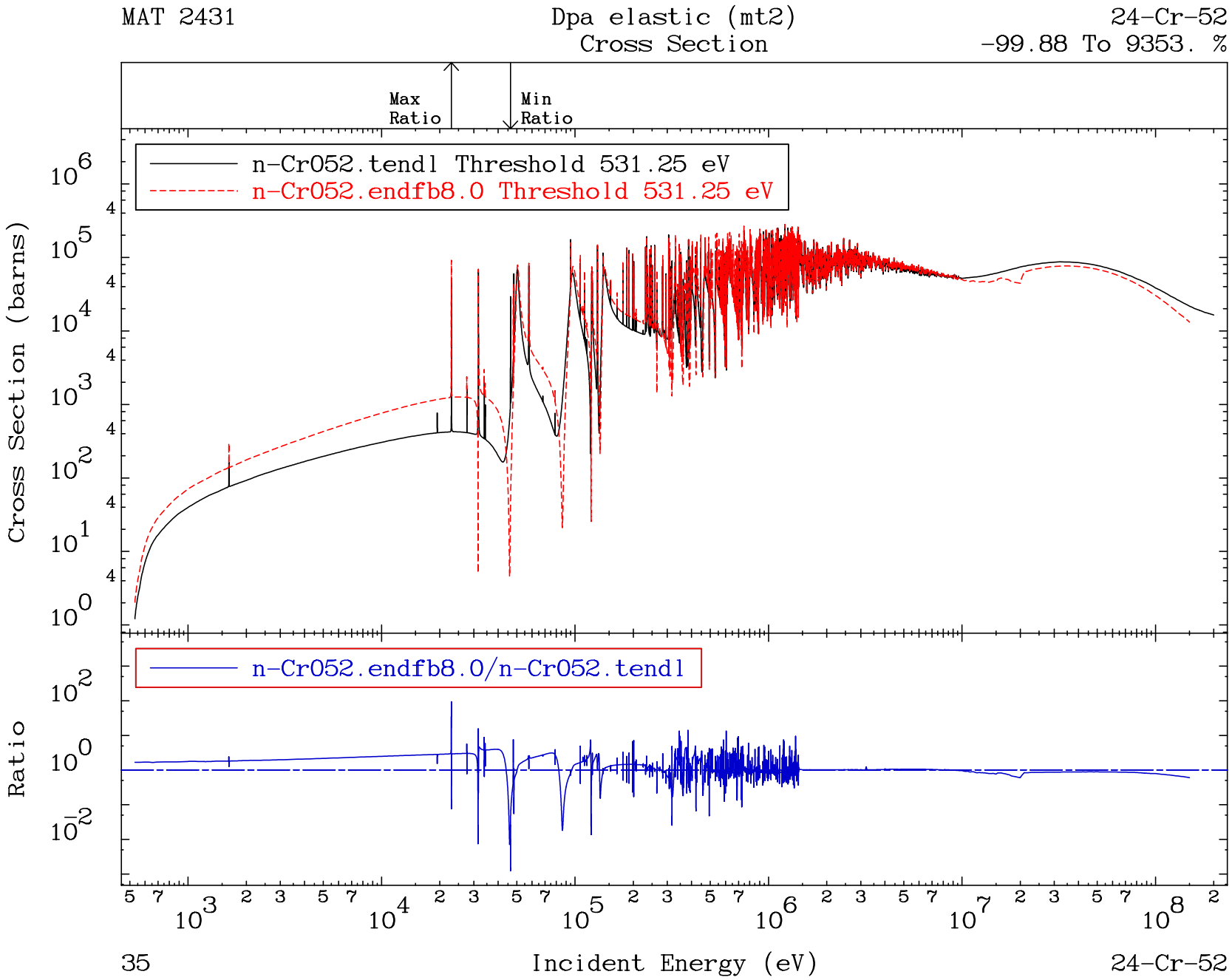

MAT 2431
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
24-Cr-52
-100.0 To 309.1 %
Max Ratio
Min Ratio
n-Cr052.tendl
n-Cr052.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
4
2
0
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
30
Incident Energy (eV)
24-Cr-52

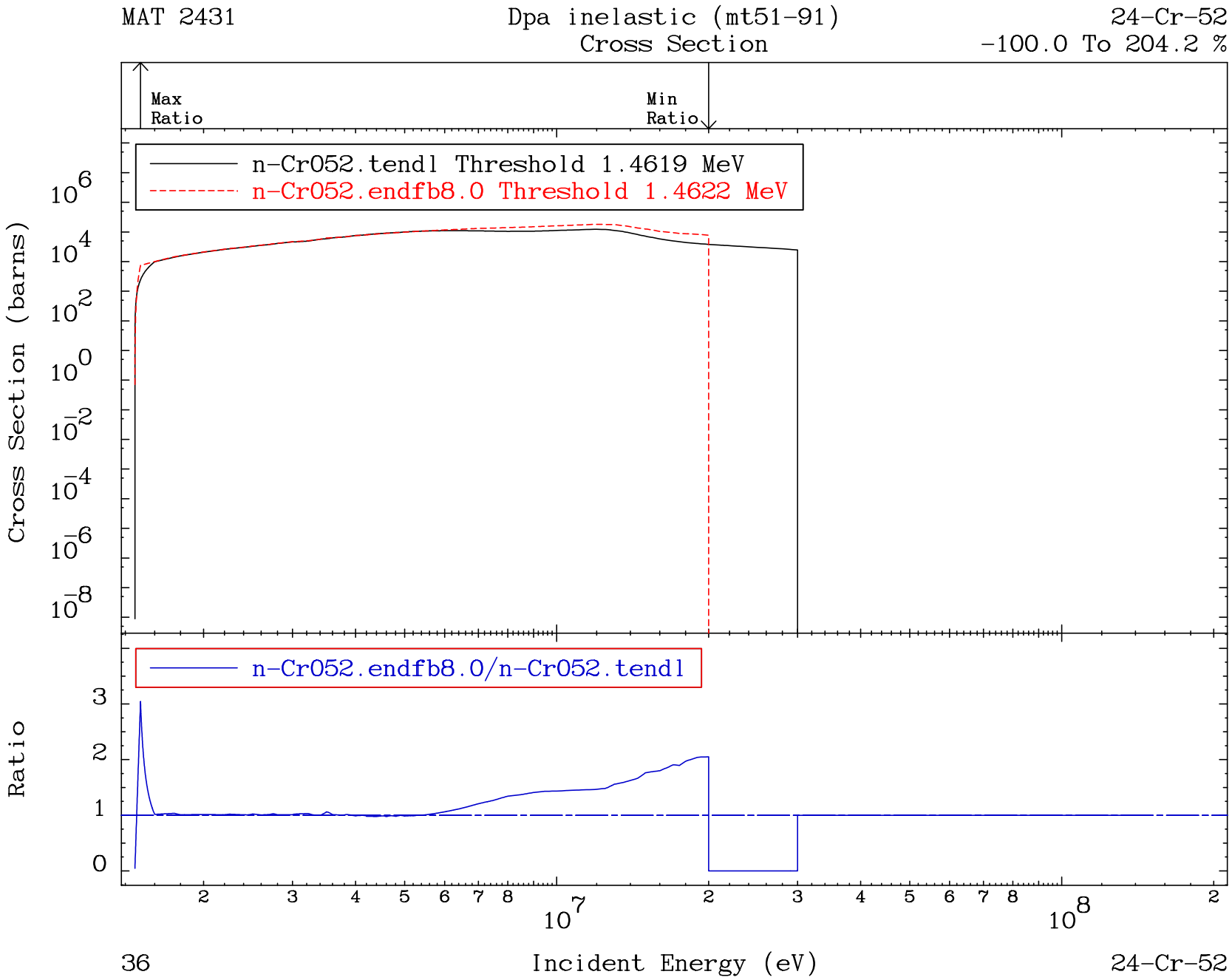

MAT 2431
Kerma capture (mt102)
Cross Section
24-Cr-52
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl
n-Cr052.endfb8.0
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
31
24-Cr-52

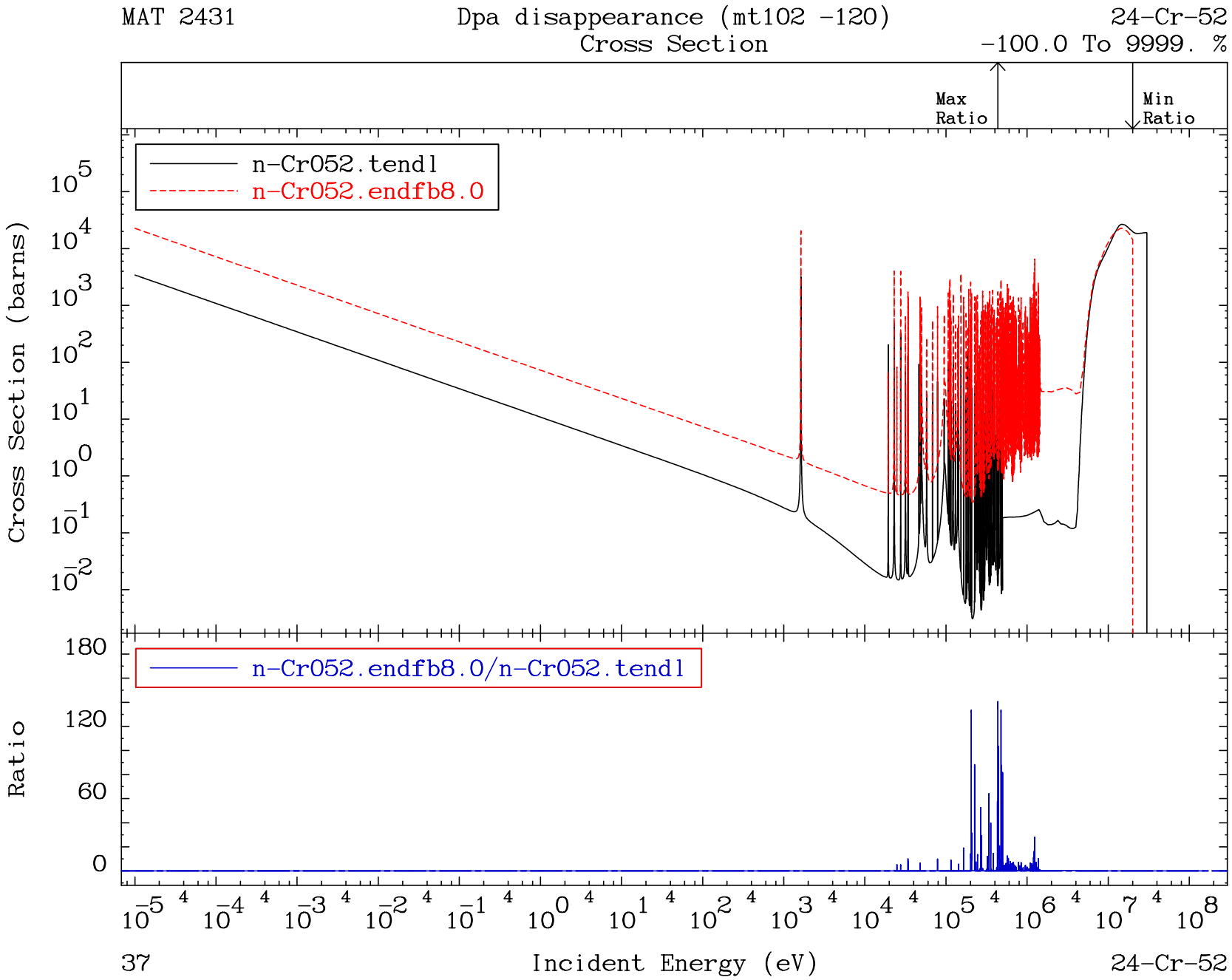

MAT 2431
Total photon (eV-barns)
Cross Section
24-Cr-52
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Cr052.tendl
n-Cr052.endfb8.0 Threshold 3.2590 MeV
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
32
24-Cr-52


MAT 2431
Total kinematic kerma (high limit)
Cross Section
24-Cr-52
-100.0 To 822.0 %
Min Ratio
Max Ratio
n-Cr052.tendl
n-Cr052.endfb8.0
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
33
24-Cr-52


MAT 2431
Dpa total (eV-barns)
Cross Section
24-Cr-52
-99.87 To 9714. %
Max Ratio
Min Ratio
n-Cr052.tendl
n-Cr052.endfb8.0
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
34
24-Cr-52


MAT 2431
Dpa elastic (mt2)
Cross Section
24-Cr-52
-99.88 To 9353. %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 531.25 eV
n-Cr052.endfb8.0 Threshold 531.25 eV
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
35
24-Cr-52


MAT 2431
Dpa inelastic (mt51-91)
Cross Section
24-Cr-52
-100.0 To 204.2 %
Max Ratio
Min Ratio
n-Cr052.tendl Threshold 1.4619 MeV
n-Cr052.endfb8.0 Threshold 1.4622 MeV
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
36
24-Cr-52


MAT 2431
Dpa disappearance (mt102 -120)
Cross Section
24-Cr-52
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cr052.tendl
n-Cr052.endfb8.0
Cross Section (barns)
n-Cr052.endfb8.0/n-Cr052.tendl
Ratio
Incident Energy (eV)
37
24-Cr-52