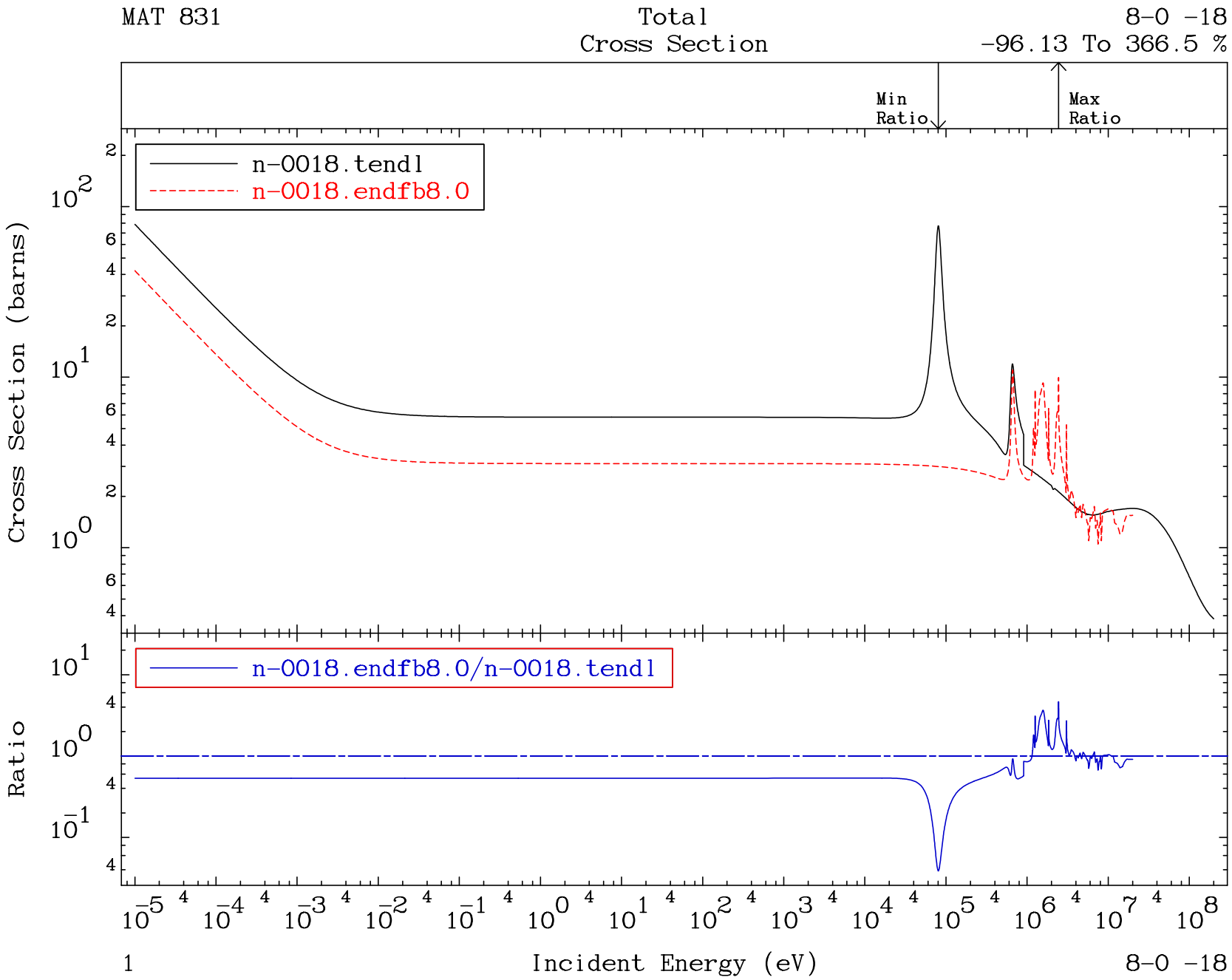
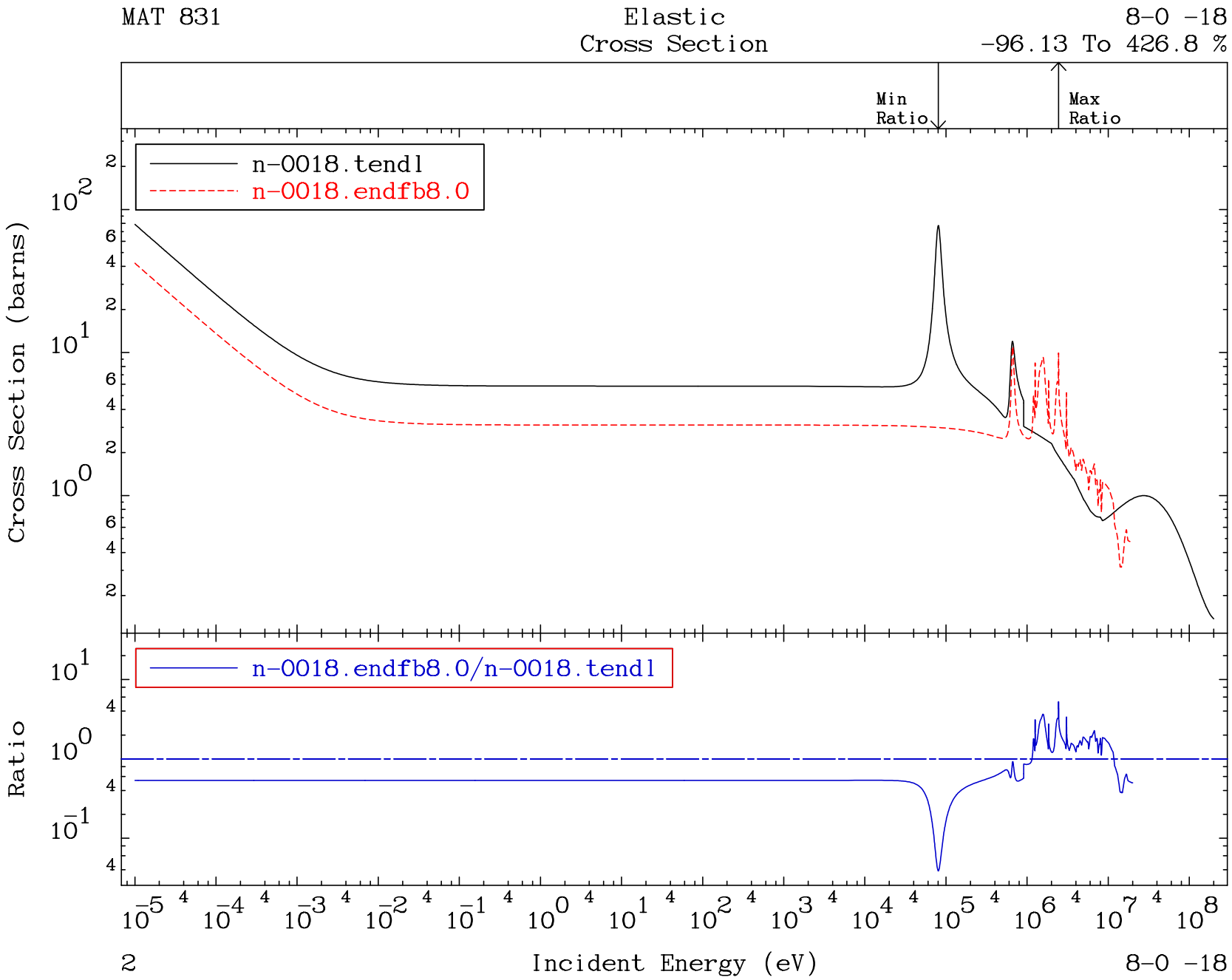
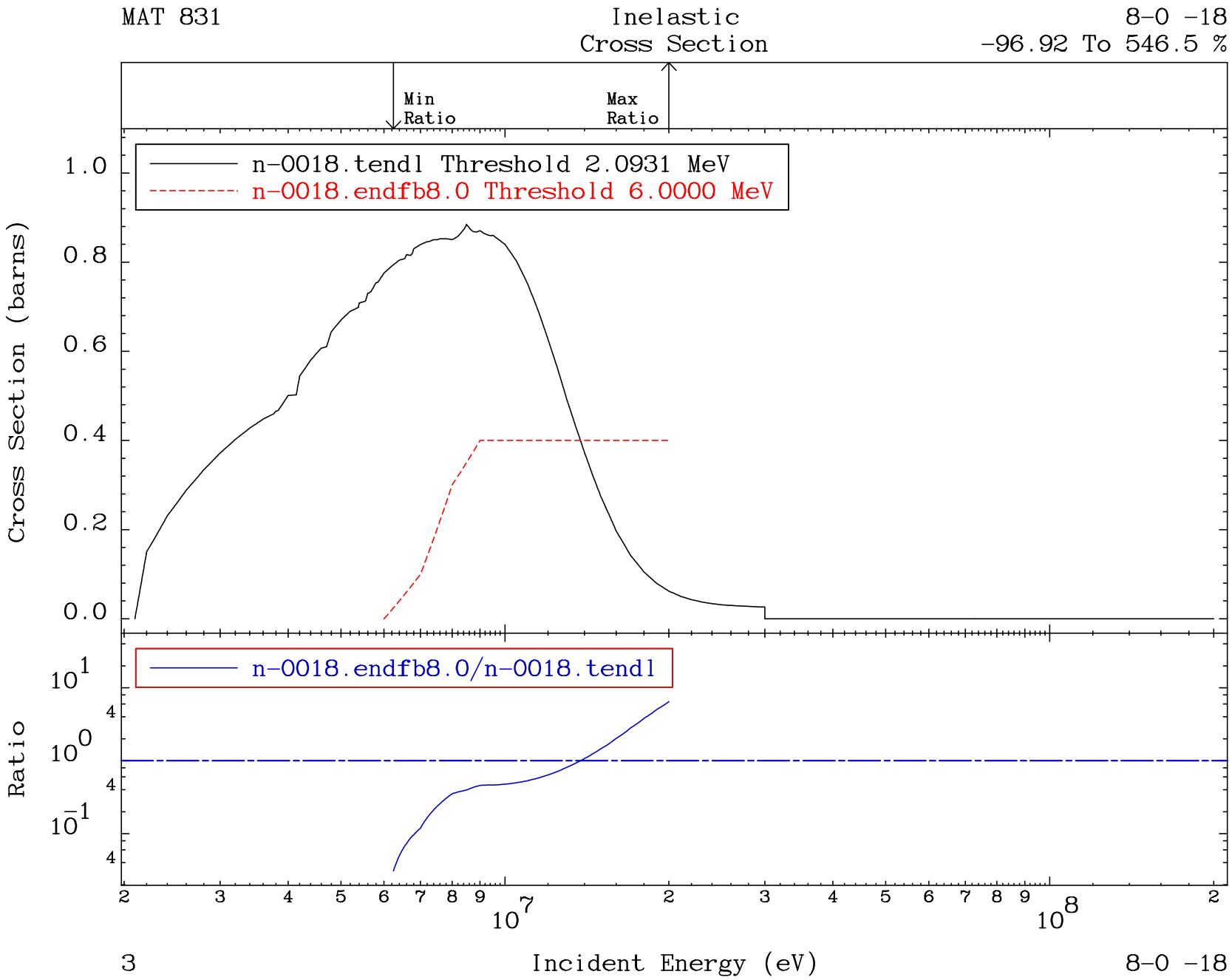
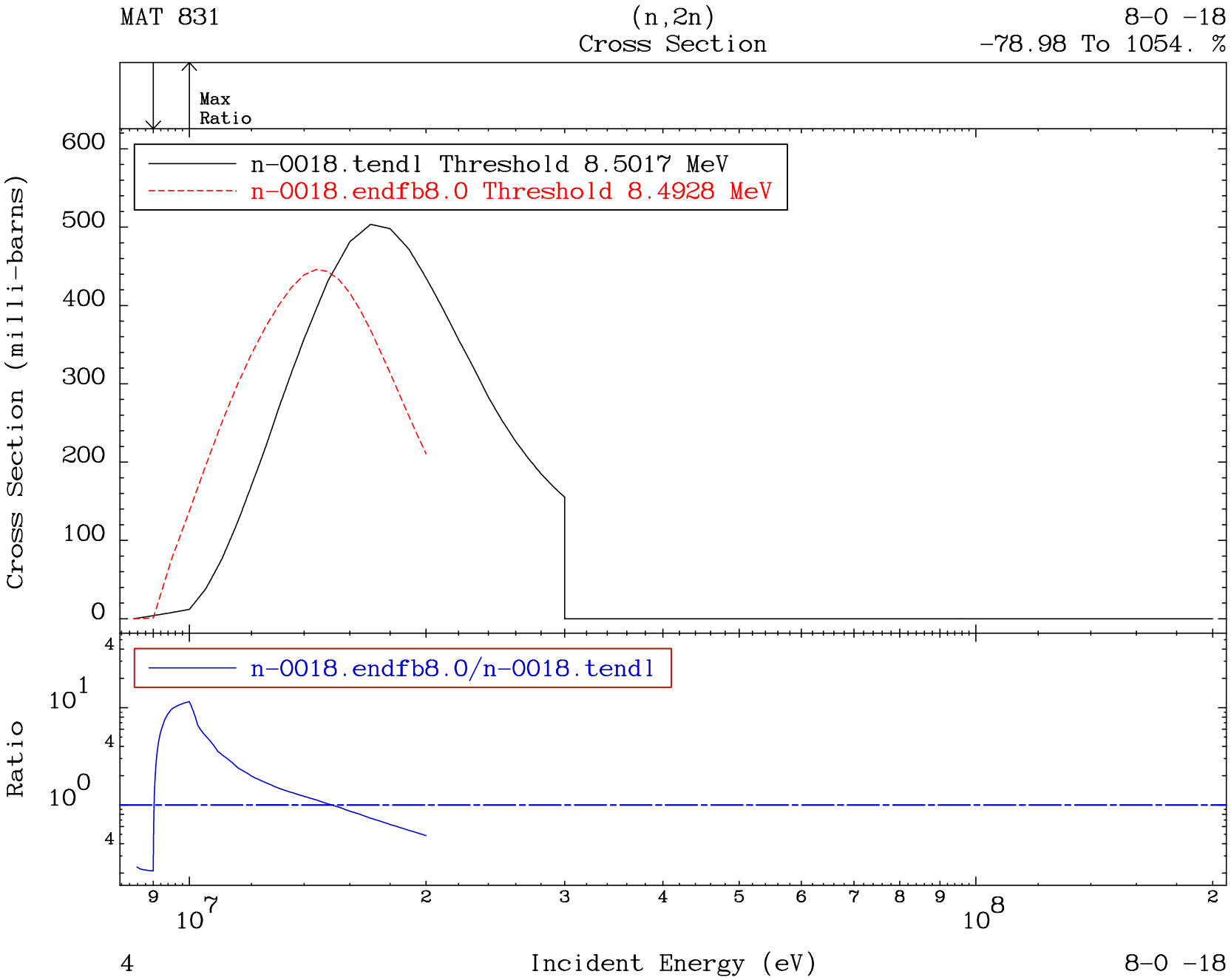
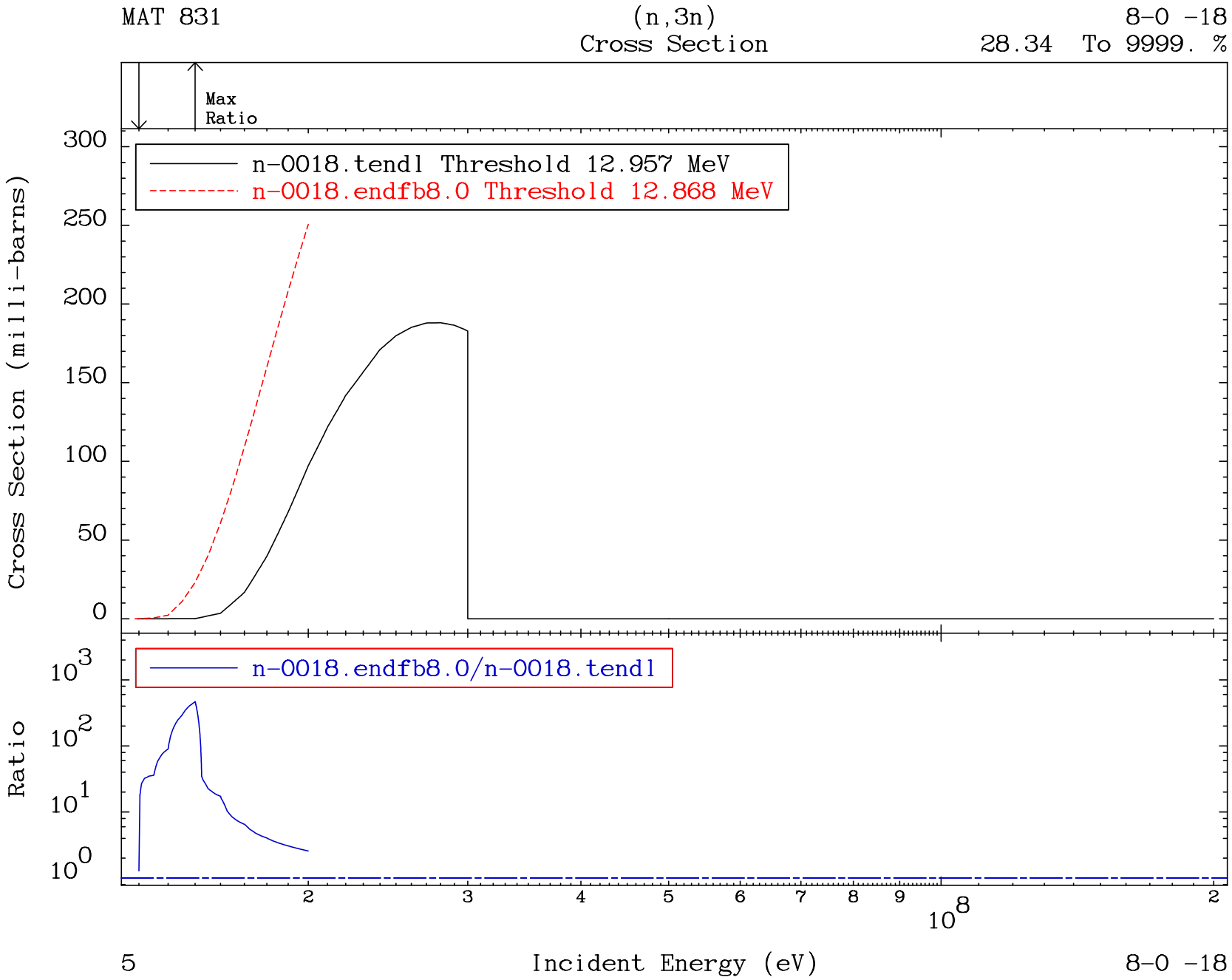
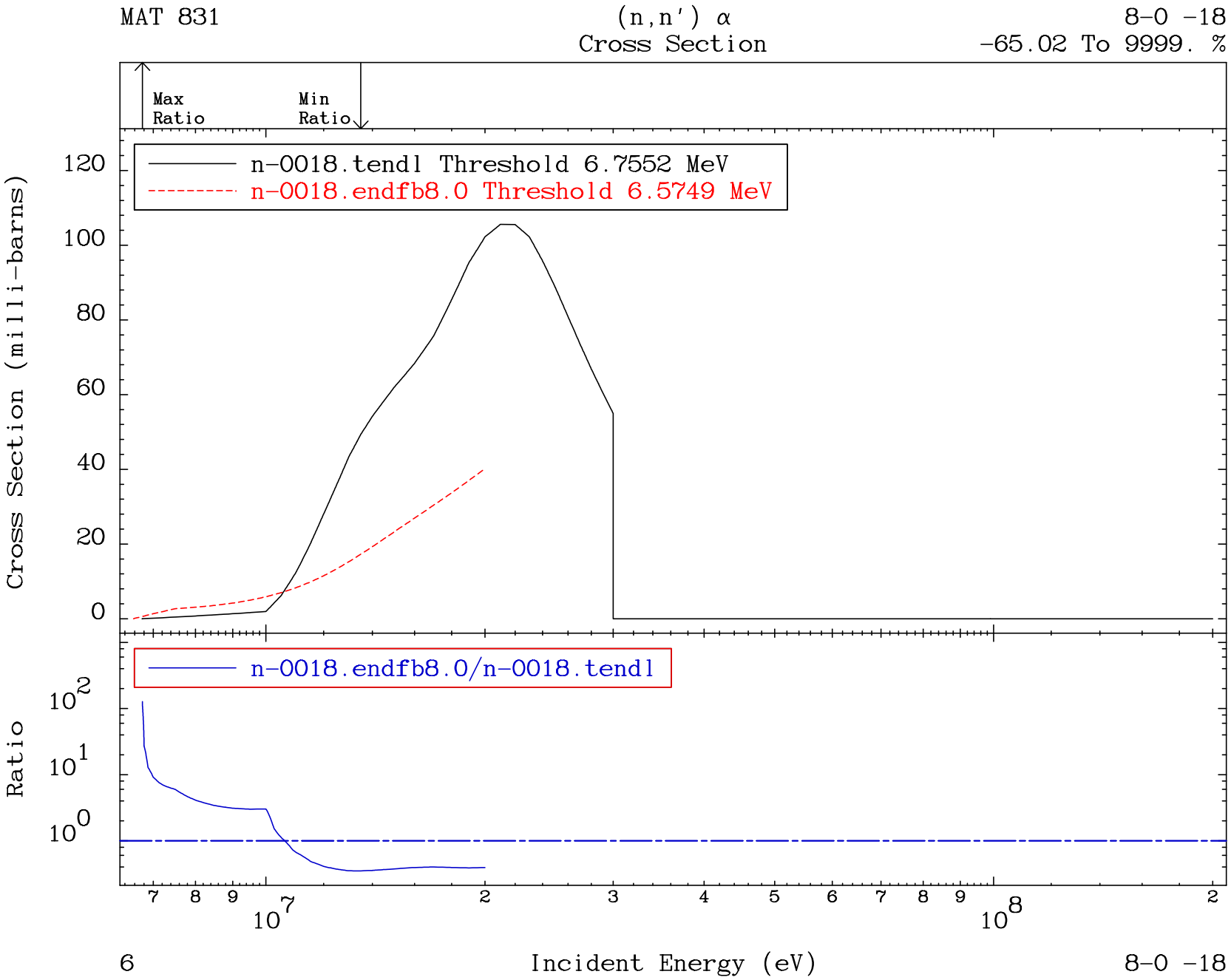

MAT 831
Total
Cross Section
8-0 -18
-96.13 To 366.5 %
Min Ratio
Max Ratio
n-0018.tendl
n-0018.endfb8.0
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
1
8-0 -18

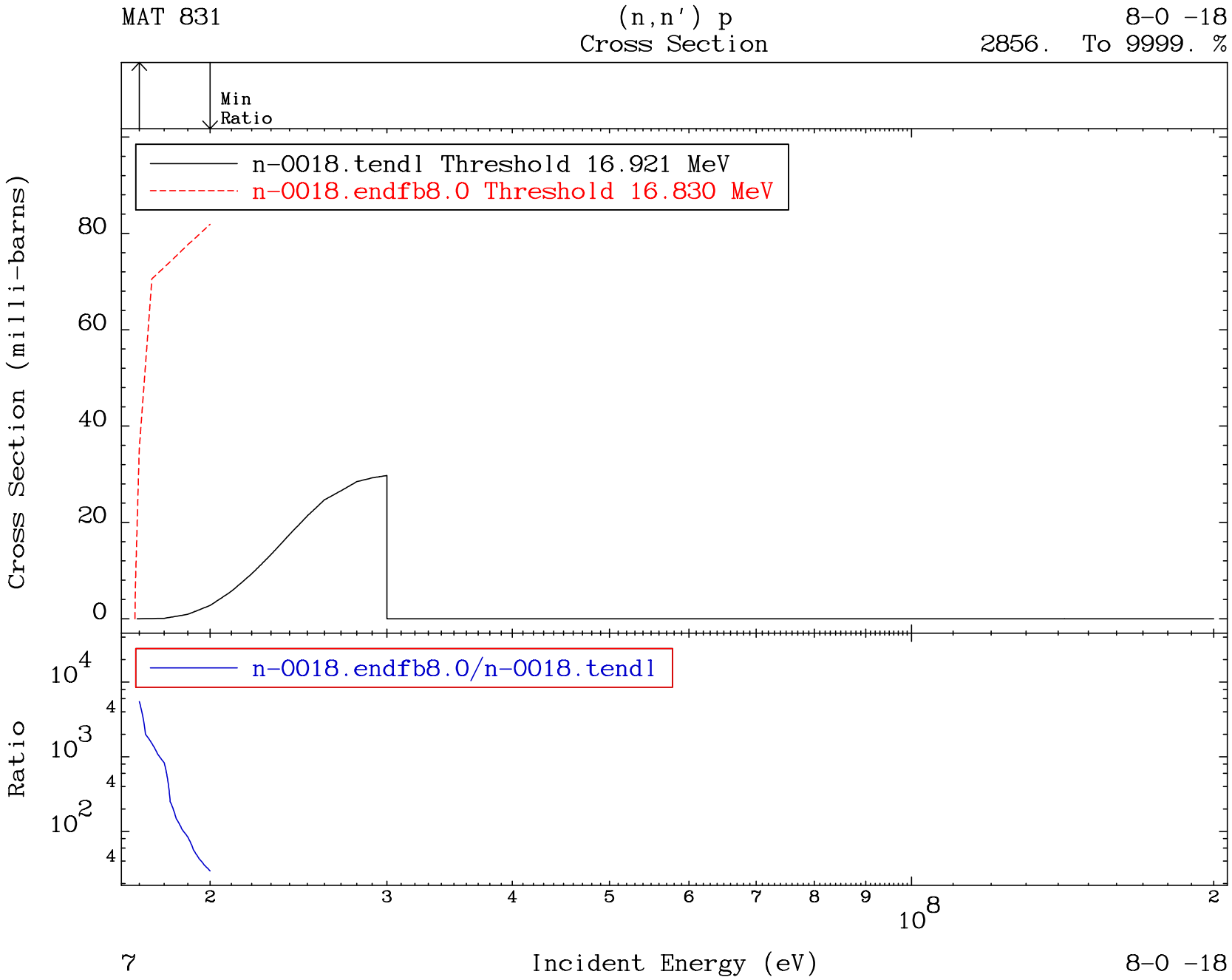

MAT 831
Elastic
Cross Section
8-0 -18
-96.13 To 426.8 %
Min
Ratio
Max
Ratio
n-0018.tendl
n-0018.endfb8.0
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
2
8-0 -18

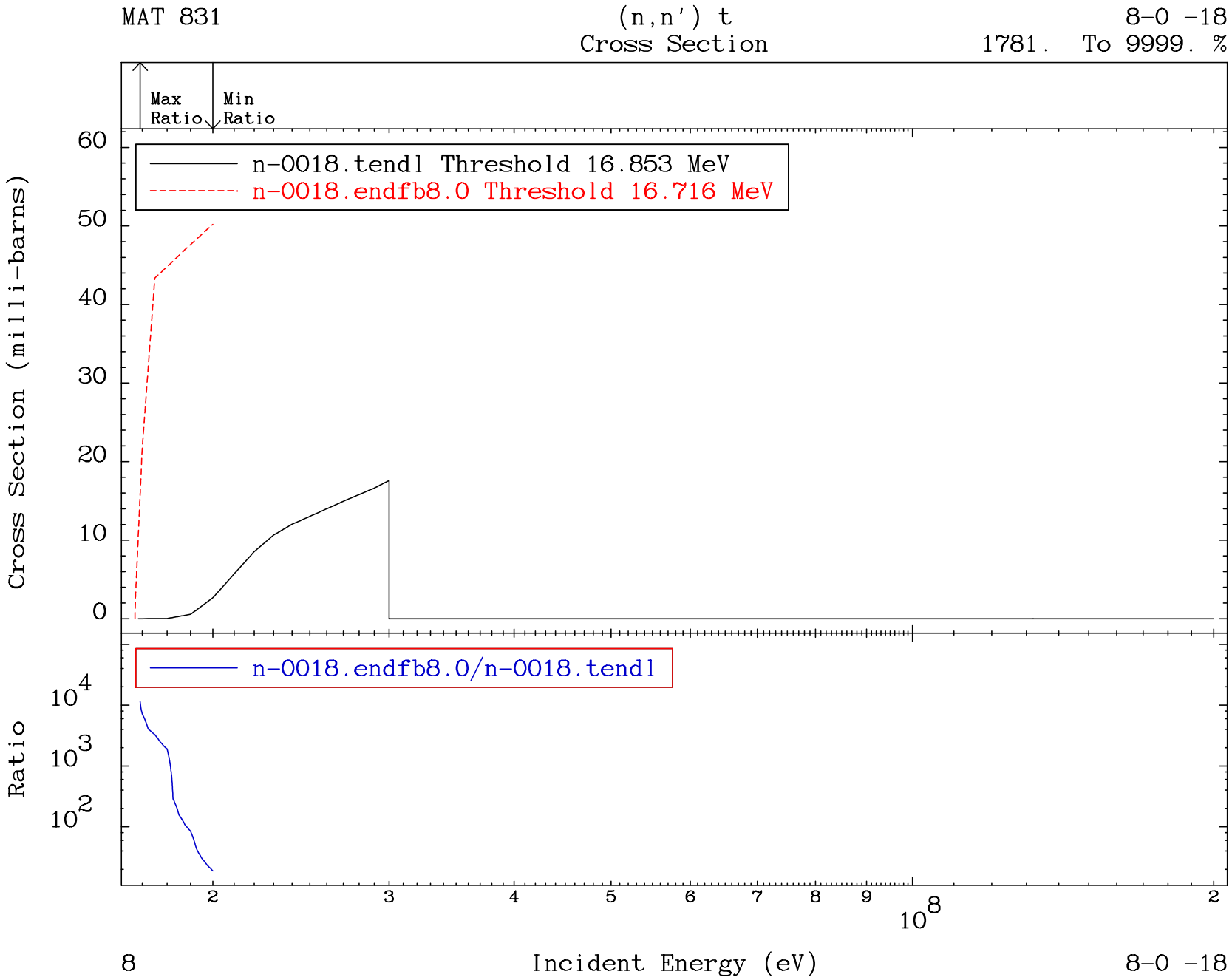

MAT 831
Inelastic
Cross Section
8-0 -18
-96.92 To 546.5 %
Min
Ratio
Max
Ratio
n-0018.tendl Threshold 2.0931 MeV
n-0018.endfb8.0 Threshold 6.0000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^1
10^0
10^-1
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
3
Incident Energy (eV)
8-0 -18

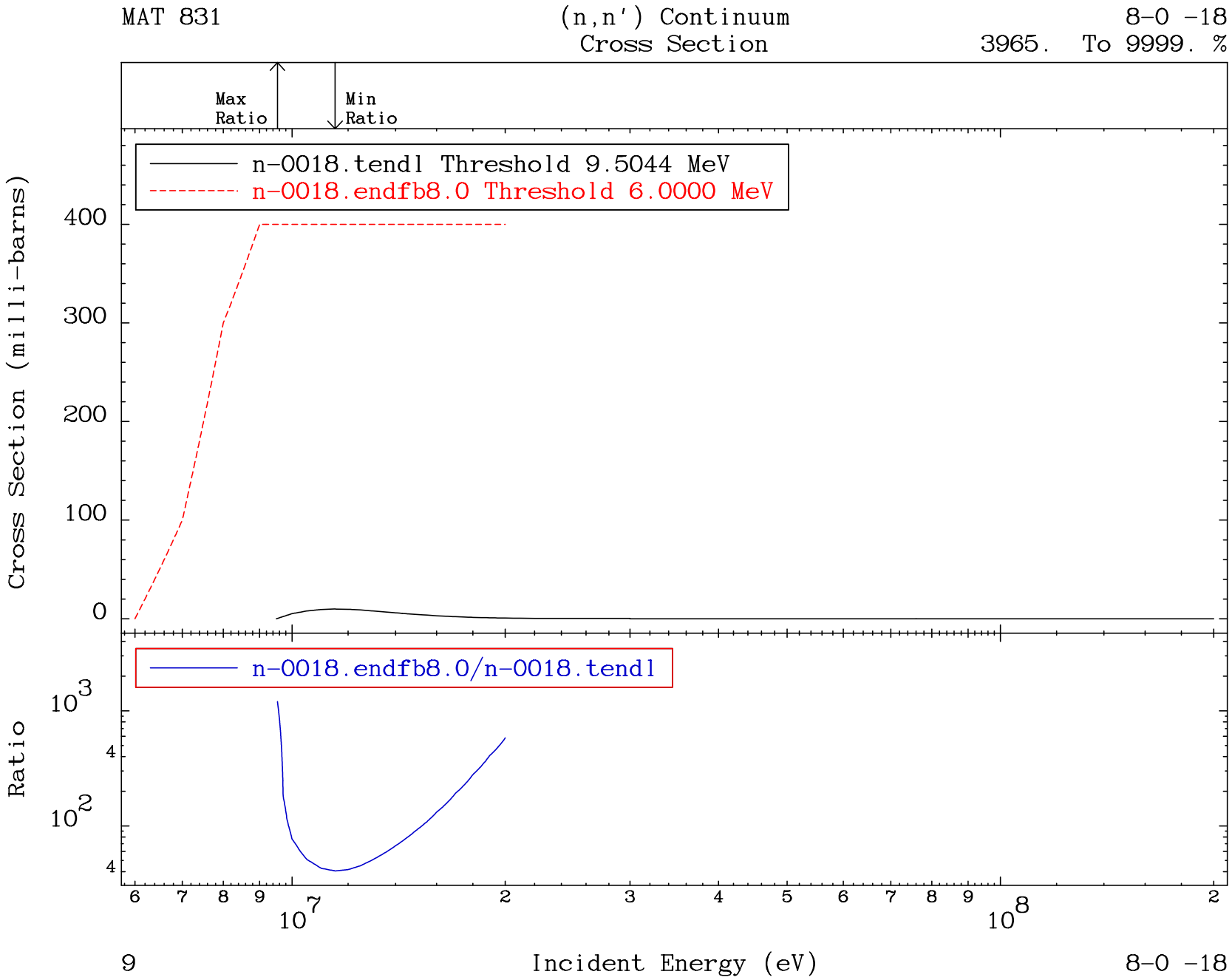

MAT 831
(n,2n)
Cross Section
8-0 -18
-78.98 To 1054. %
Max
Ratio
n-0018.tendl Threshold 8.5017 MeV
n-0018.endfb8.0 Threshold 8.4928 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^1
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
8-0 -18

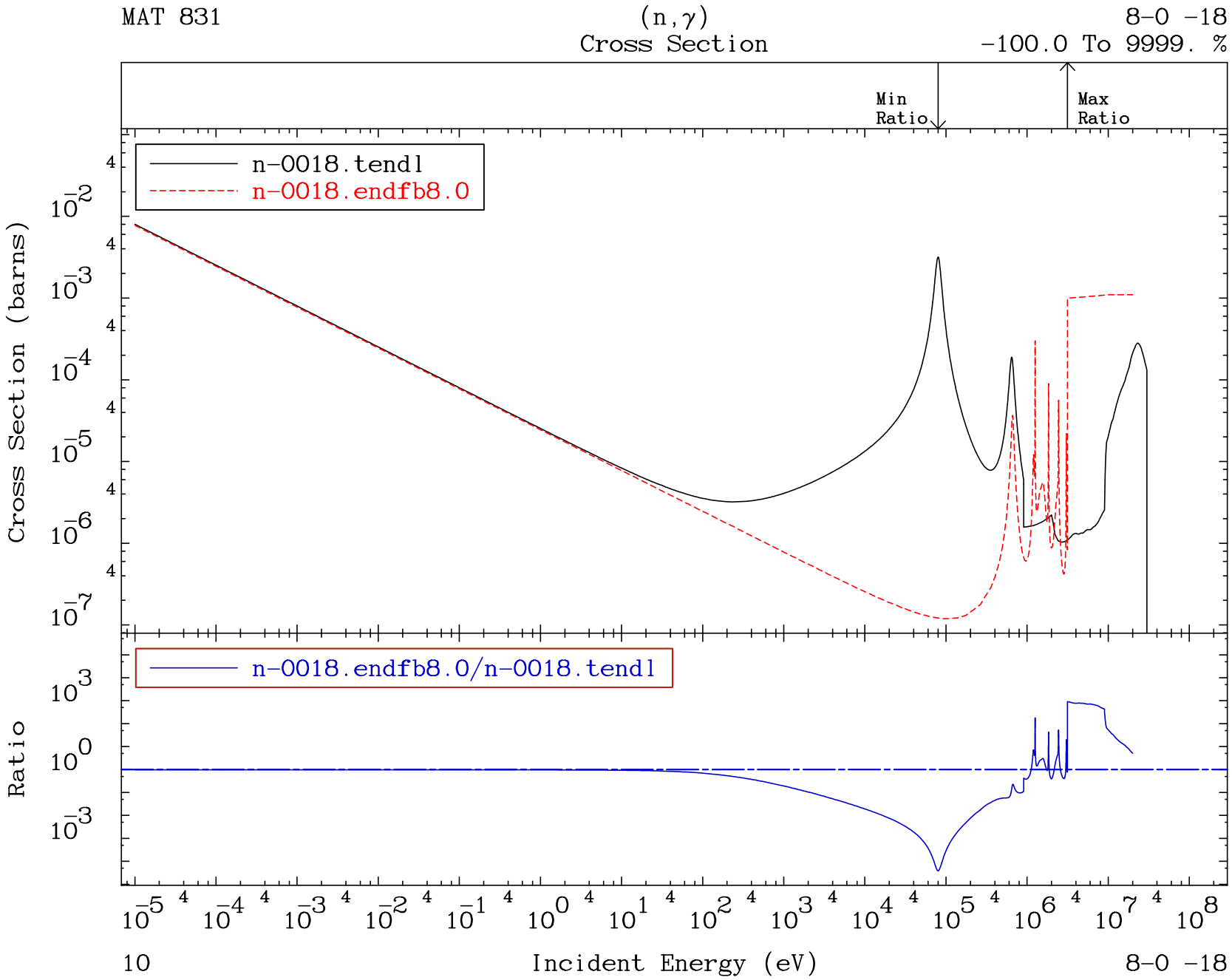

MAT 831
(n,3n)
Cross Section
8-0 -18
28.34 To 9999. %
Max
Ratio
n-0018.tendl Threshold 12.957 MeV
n-0018.endfb8.0 Threshold 12.868 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
8-0 -18

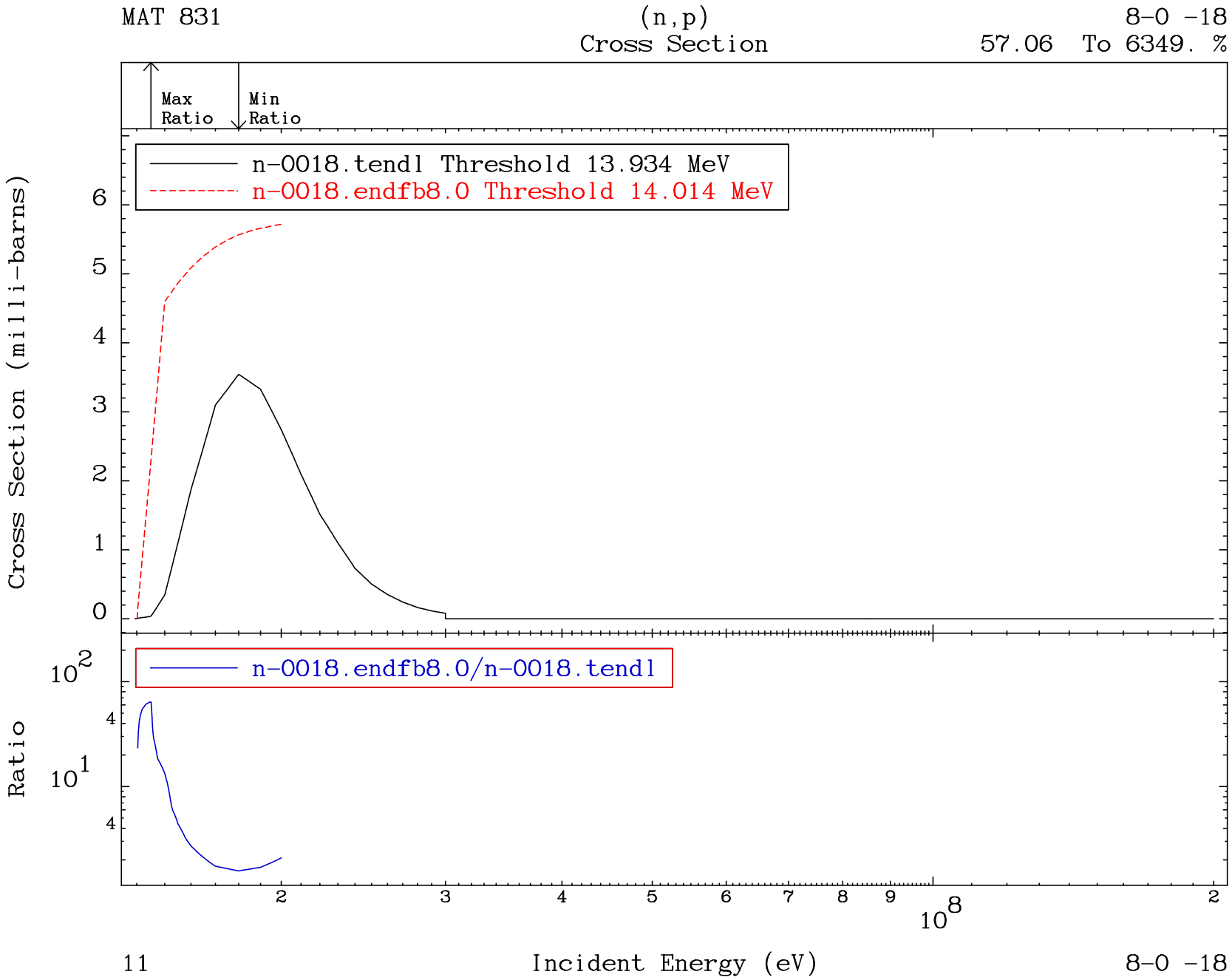

MAT 831
(n,n') α
Cross Section
8-0 -18
-65.02 To 9999. %
Max Ratio
Min Ratio
n-0018.tendl Threshold 6.7552 MeV
n-0018.endfb8.0 Threshold 6.5749 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^2
10^1
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
6
8-0 -18

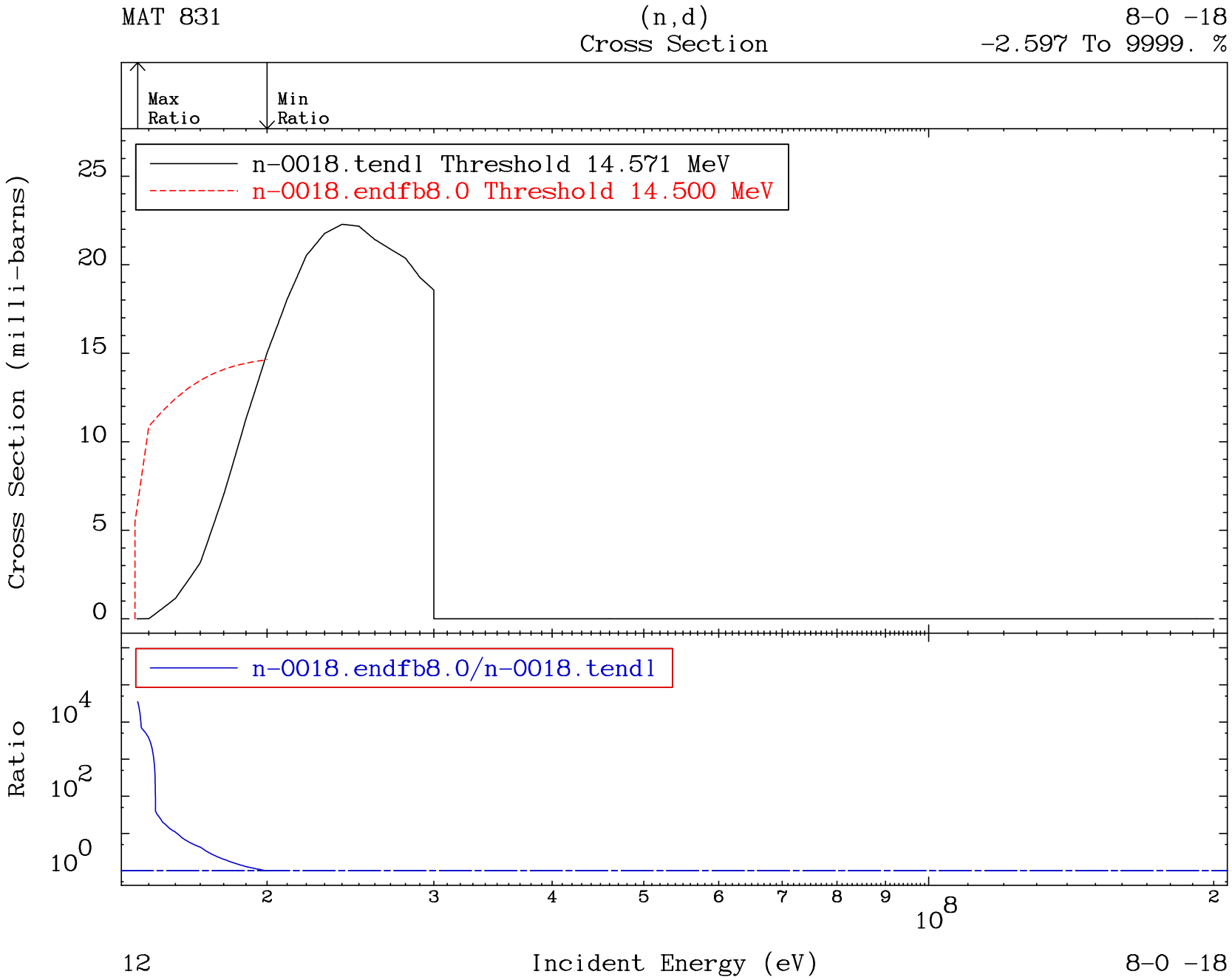

MAT 831
(n,n') p
Cross Section
8-0 -18
2856. To 9999. %
Min
Ratio
n-0018.tendl Threshold 16.921 MeV
n-0018.endfb8.0 Threshold 16.830 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^4
10^3
10^2
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
8-0 -18

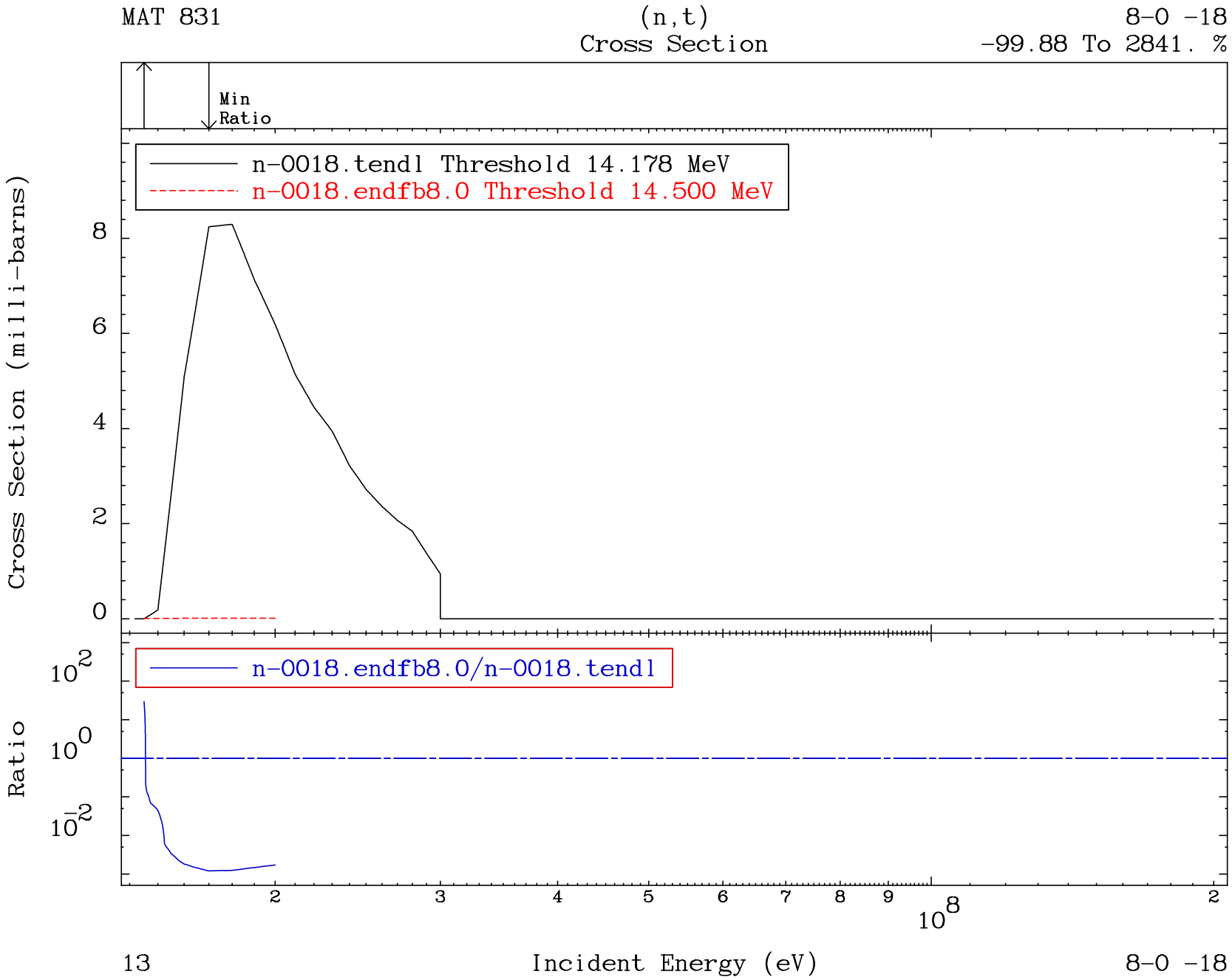

MAT 831
(n,n') t
Cross Section
8-0 -18
1781. To 9999. %
Max Ratio
Min Ratio
n-0018.tendl Threshold 16.853 MeV
n-0018.endfb8.0 Threshold 16.716 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^4
10^3
10^2
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
8-0 -18

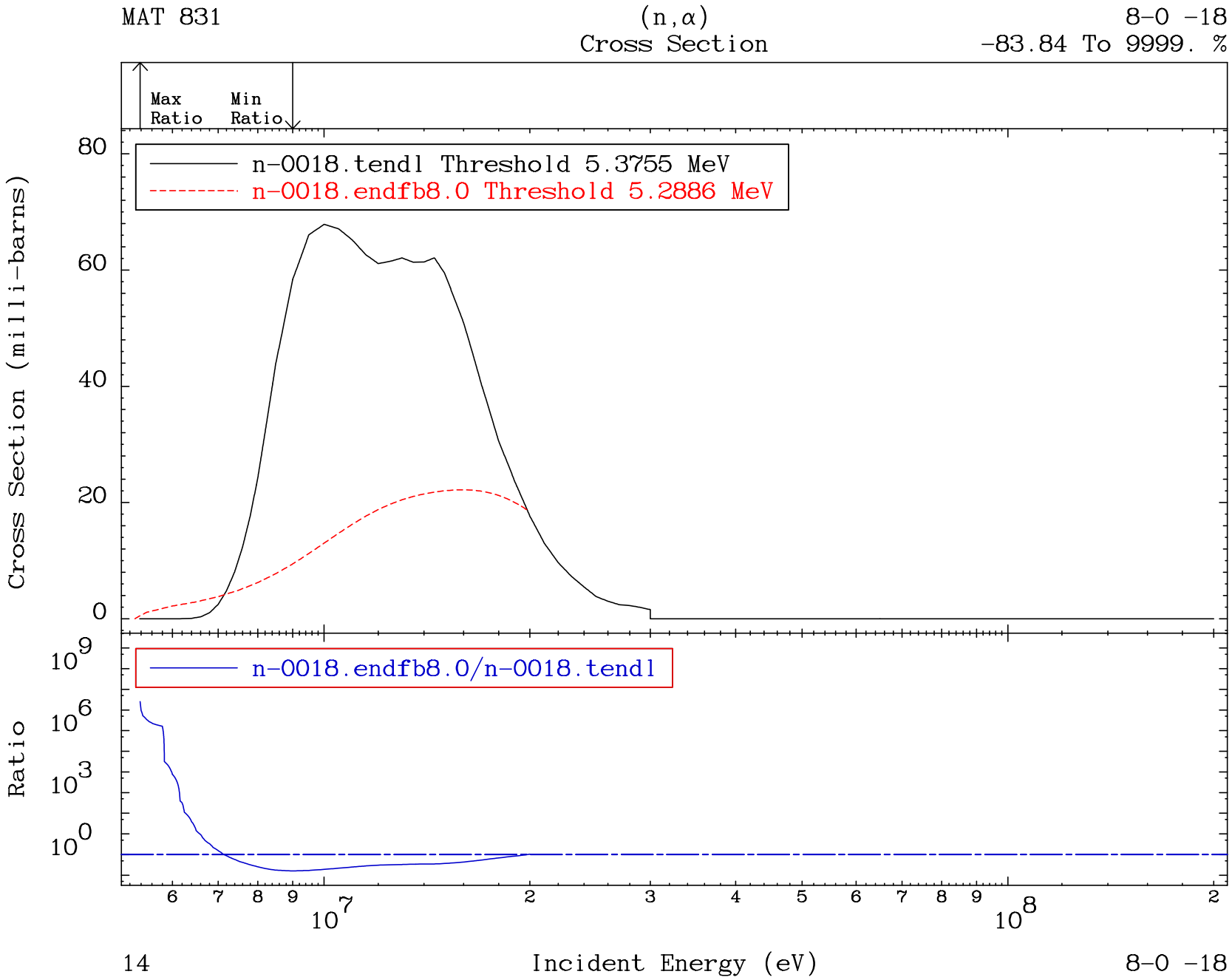

MAT 831
(n,n') Continuum
Cross Section
8-0 -18
3965. To 9999. %
Max Ratio
Min Ratio
n-0018.tendl Threshold 9.5044 MeV
n-0018.endfb8.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^3
4
10^2
4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
8-0 -18

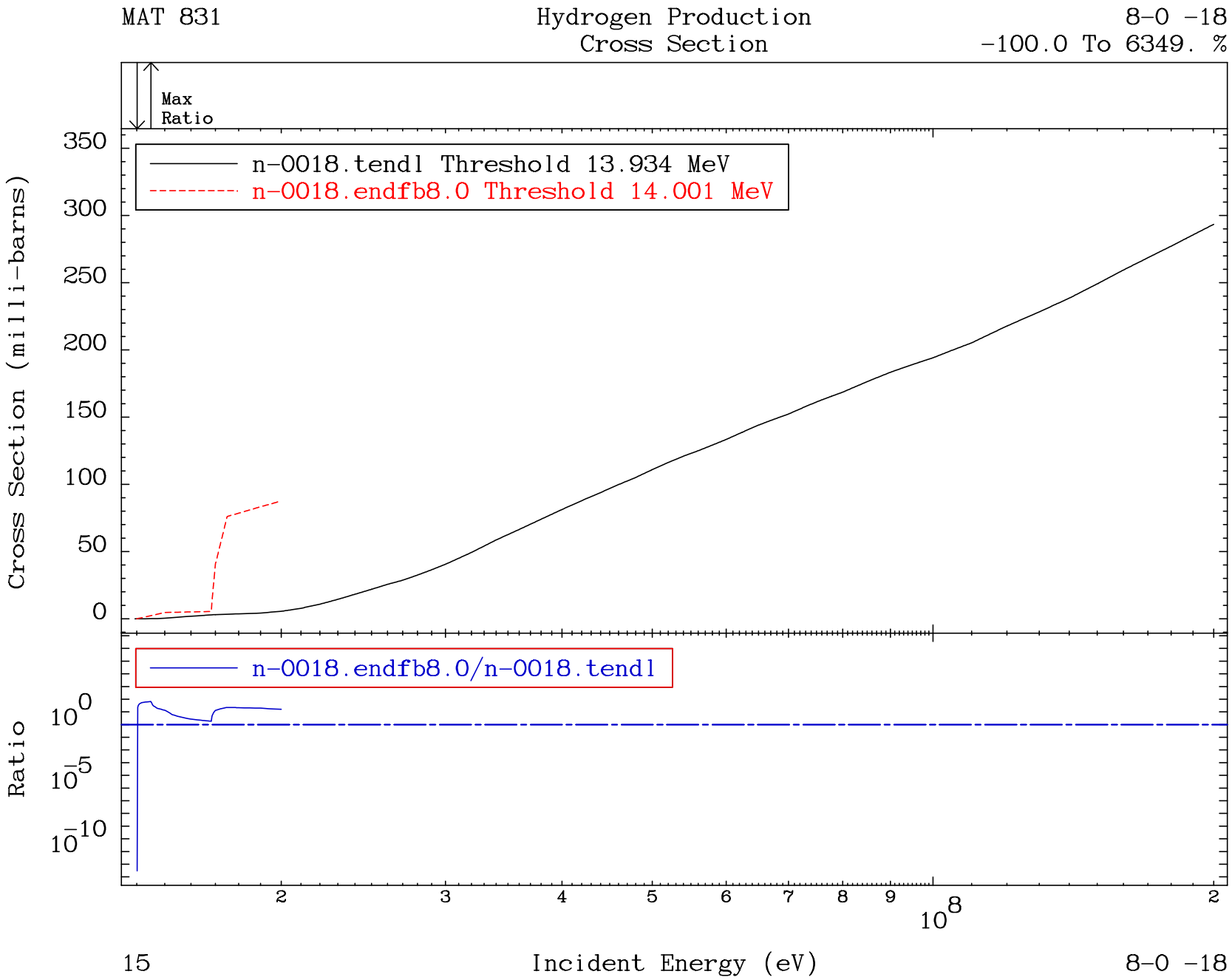

MAT 831
(n,γ)
Cross Section
8-0 -18
-100.0 To 9999. %
Min Ratio
Max Ratio
n-0018.tendl
n-0018.endfb8.0
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
8-0 -18

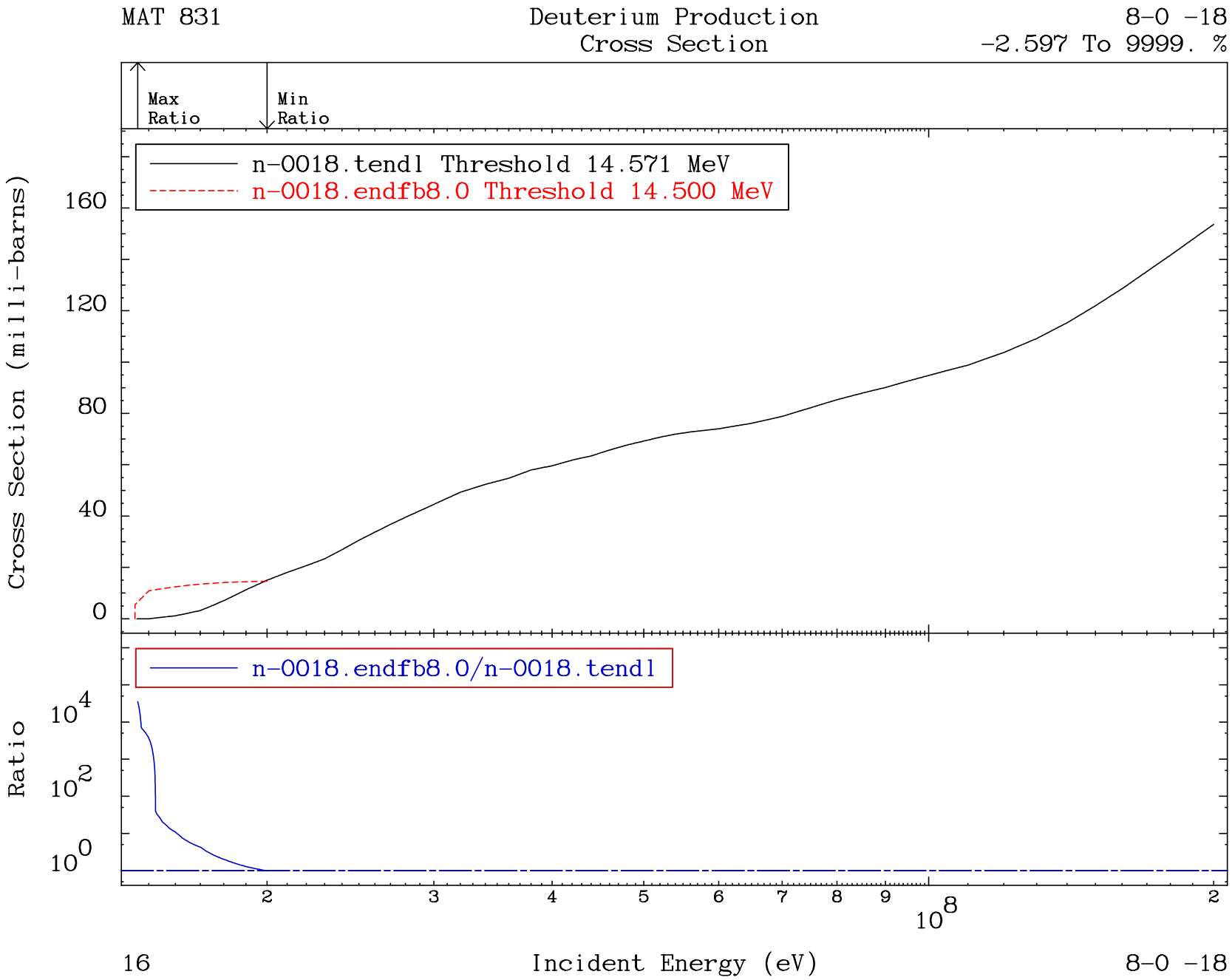

MAT 831
(n,p)
Cross Section
8-0 -18
57.06 To 6349. %
Max Ratio
Min Ratio
n-0018.tendl Threshold 13.934 MeV
n-0018.endfb8.0 Threshold 14.014 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-0018.endfb8.0/n-0018.tendl
Ratio
10^2
4
10^1
4
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
8-0 -18

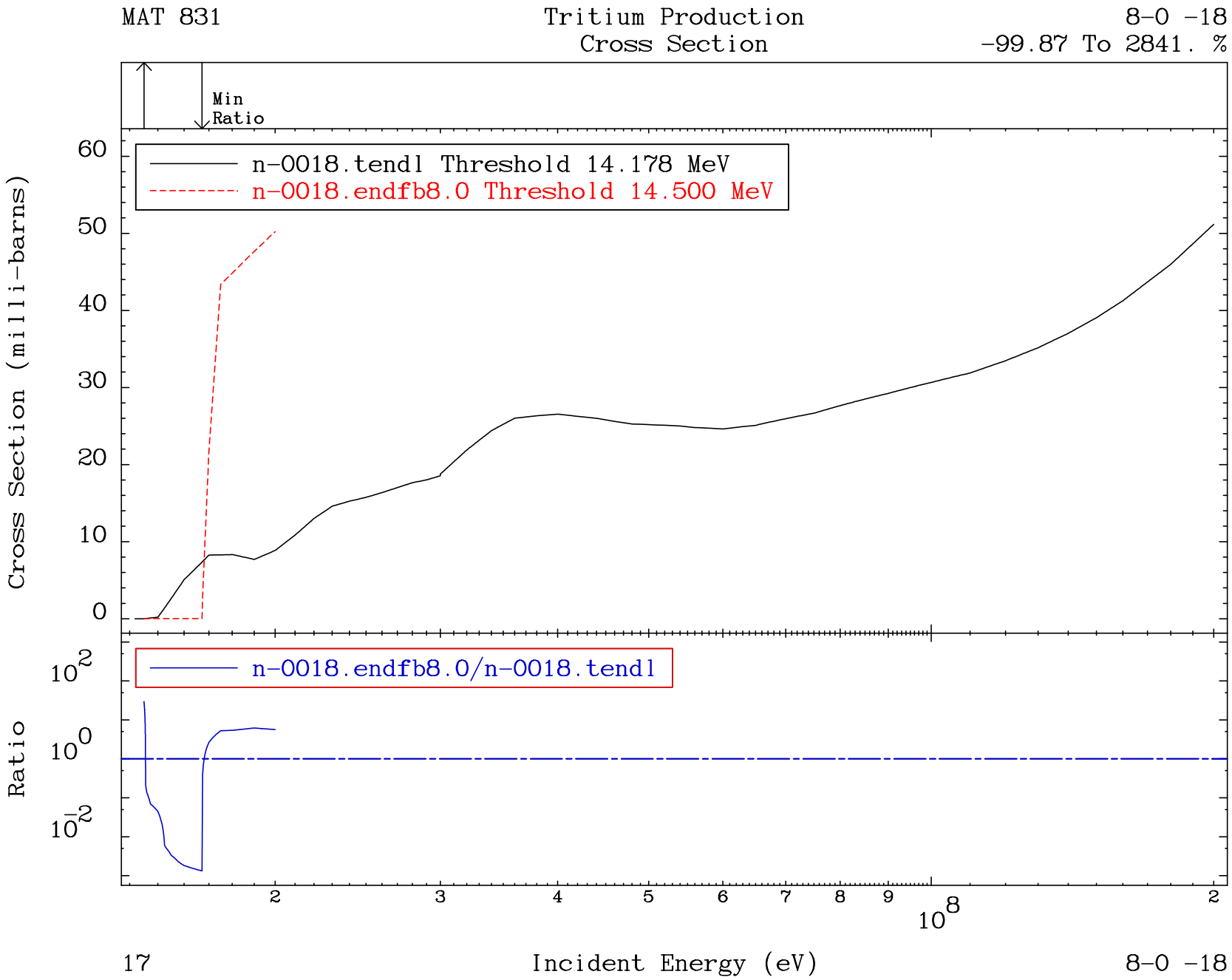

MAT 831
(n,d)
Cross Section
8-0 -18
-2.597 To 9999. %
Max Ratio
Min Ratio
n-0018.tendl Threshold 14.571 MeV
n-0018.endfb8.0 Threshold 14.500 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
8-0 -18

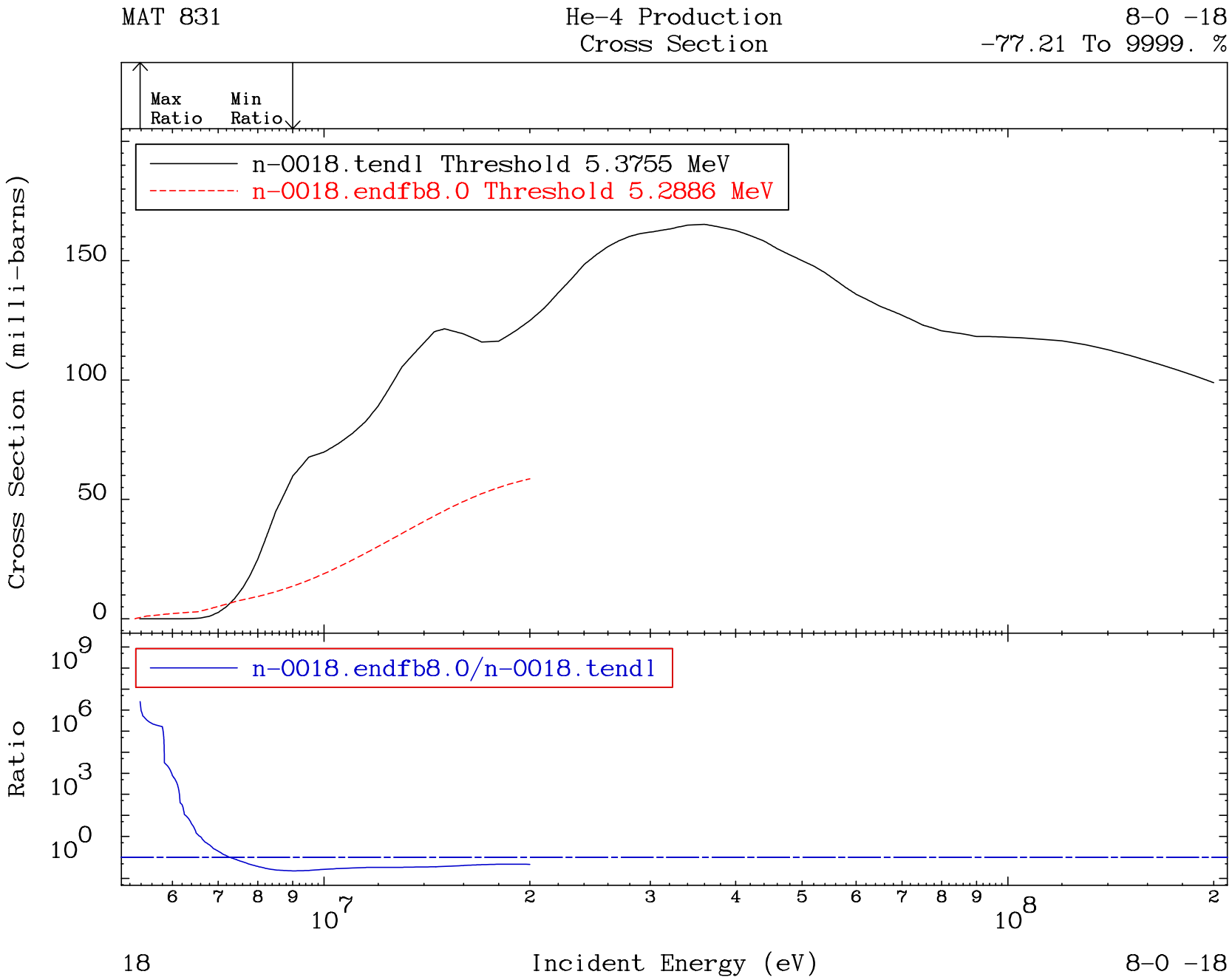

MAT 831
(n,t)
Cross Section
8-0 -18
-99.88 To 2841. %
Min
Ratio
n-0018.tendl Threshold 14.178 MeV
n-0018.endfb8.0 Threshold 14.500 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-0018.endfb8.0/n-0018.tendl
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
8-0 -18

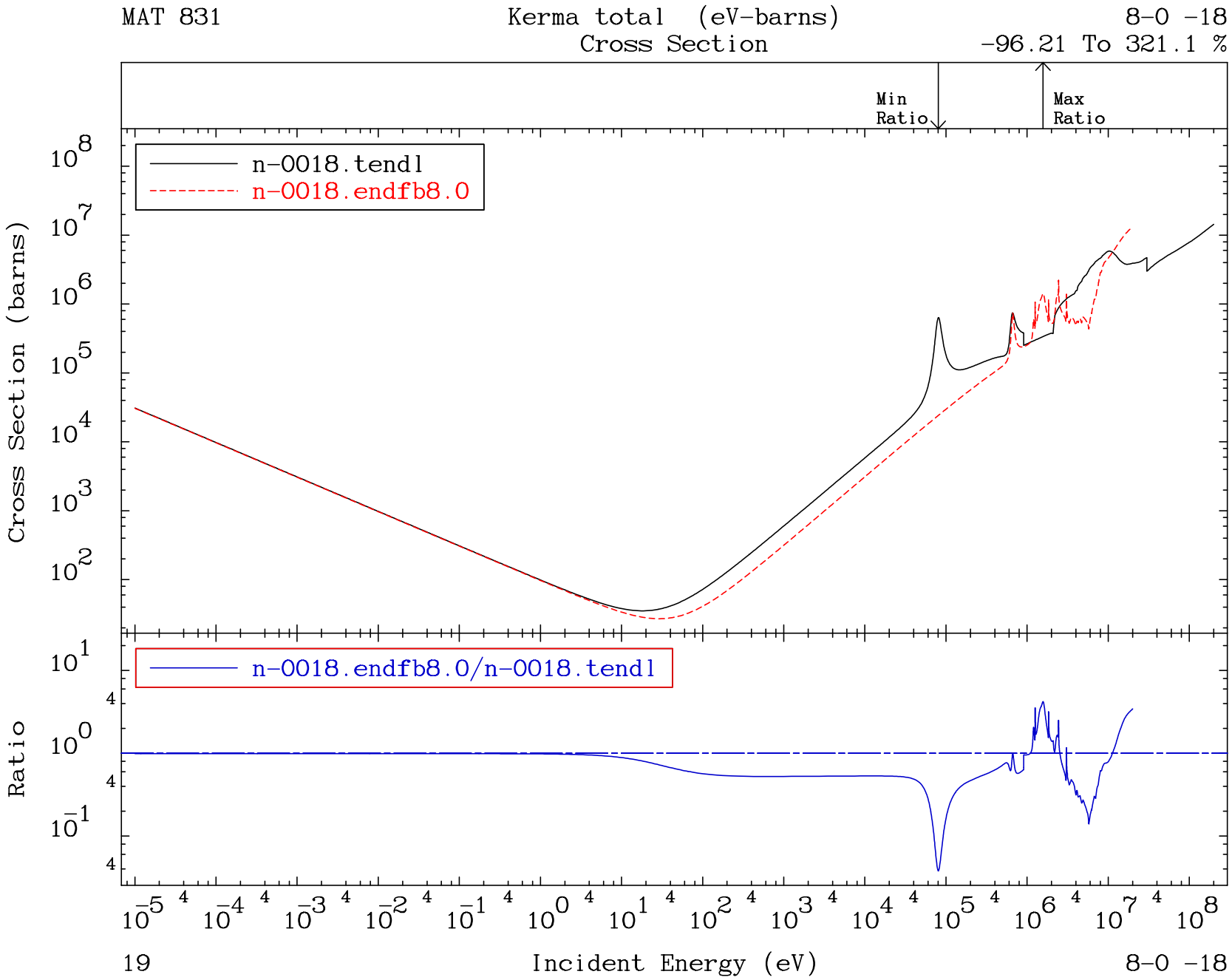

MAT 831
(n,α)
Cross Section
8-0 -18
-83.84 To 9999. %
Max Ratio
Min Ratio
n-0018.tendl Threshold 5.3755 MeV
n-0018.endfb8.0 Threshold 5.2886 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^9
10^6
10^3
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
8-0 -18

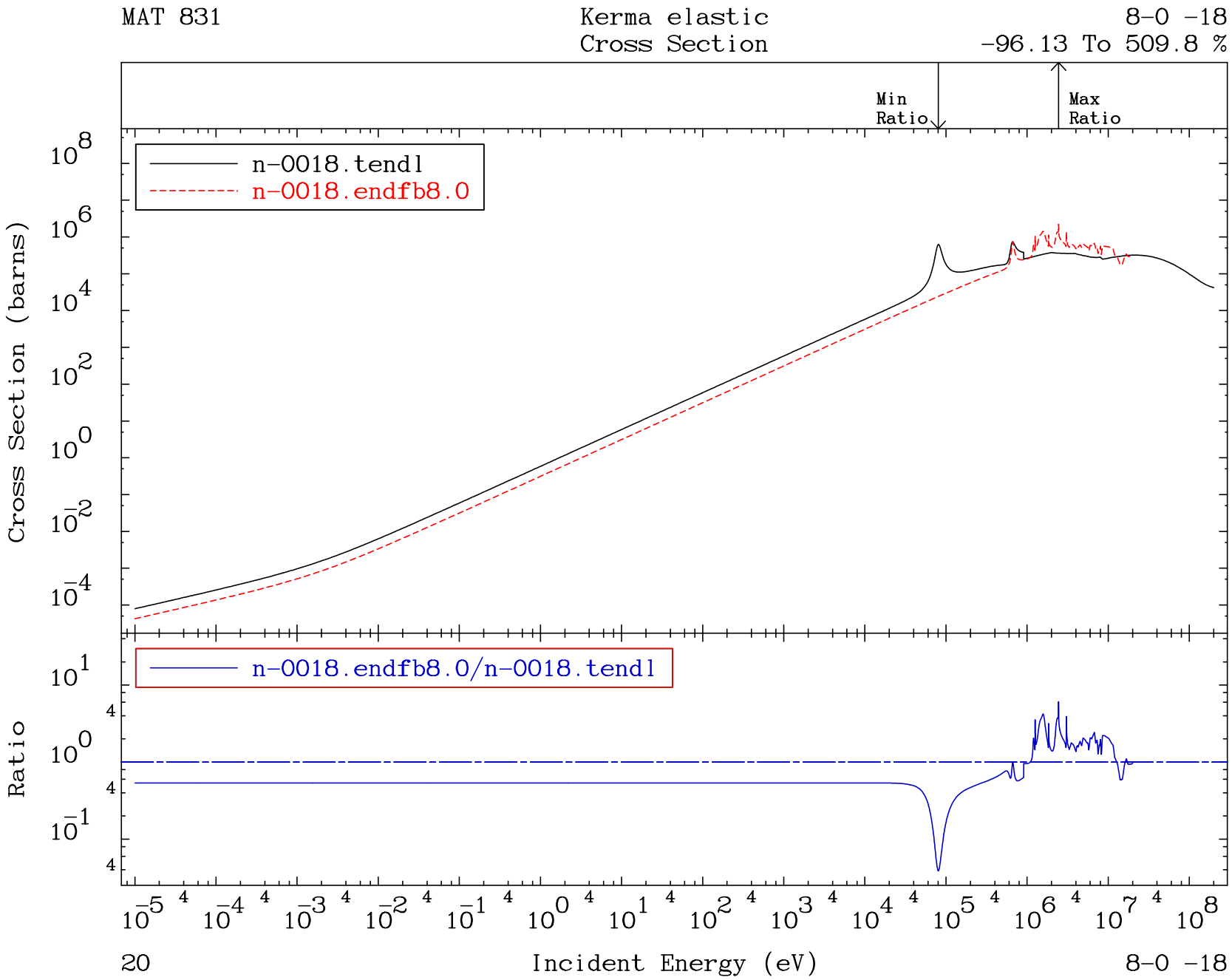

MAT 831
Hydrogen Production
Cross Section
8-0 -18
-100.0 To 6349. %
Max
Ratio
n-0018.tendl Threshold 13.934 MeV
n-0018.endfb8.0 Threshold 14.001 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^0
10^-5
10^-10
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
8-0 -18

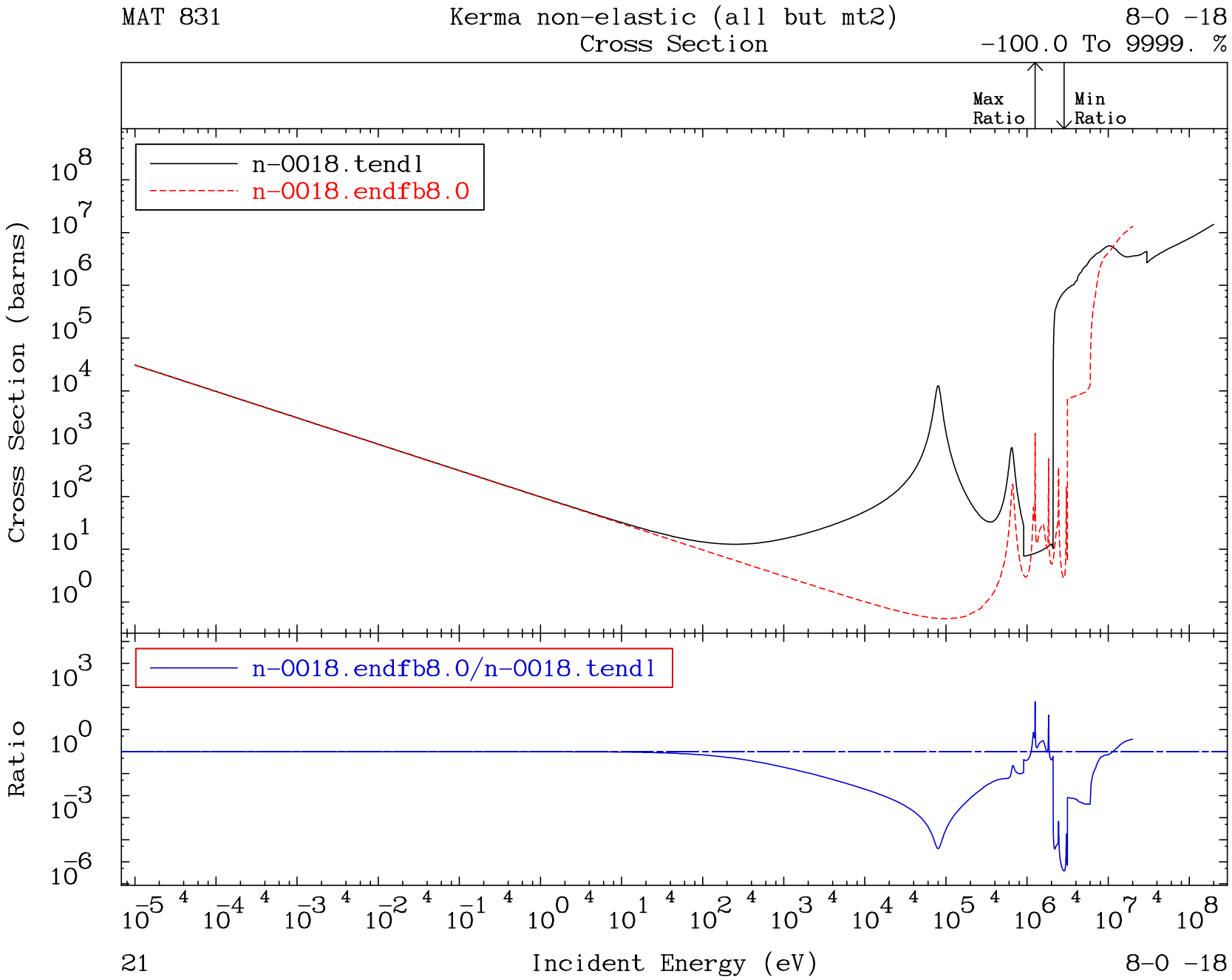

MAT 831
Deuterium Production
Cross Section
8-0 -18
-2.597 To 9999. %
Max Ratio
Min Ratio
n-0018.tendl Threshold 14.571 MeV
n-0018.endfb8.0 Threshold 14.500 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
8-0 -18

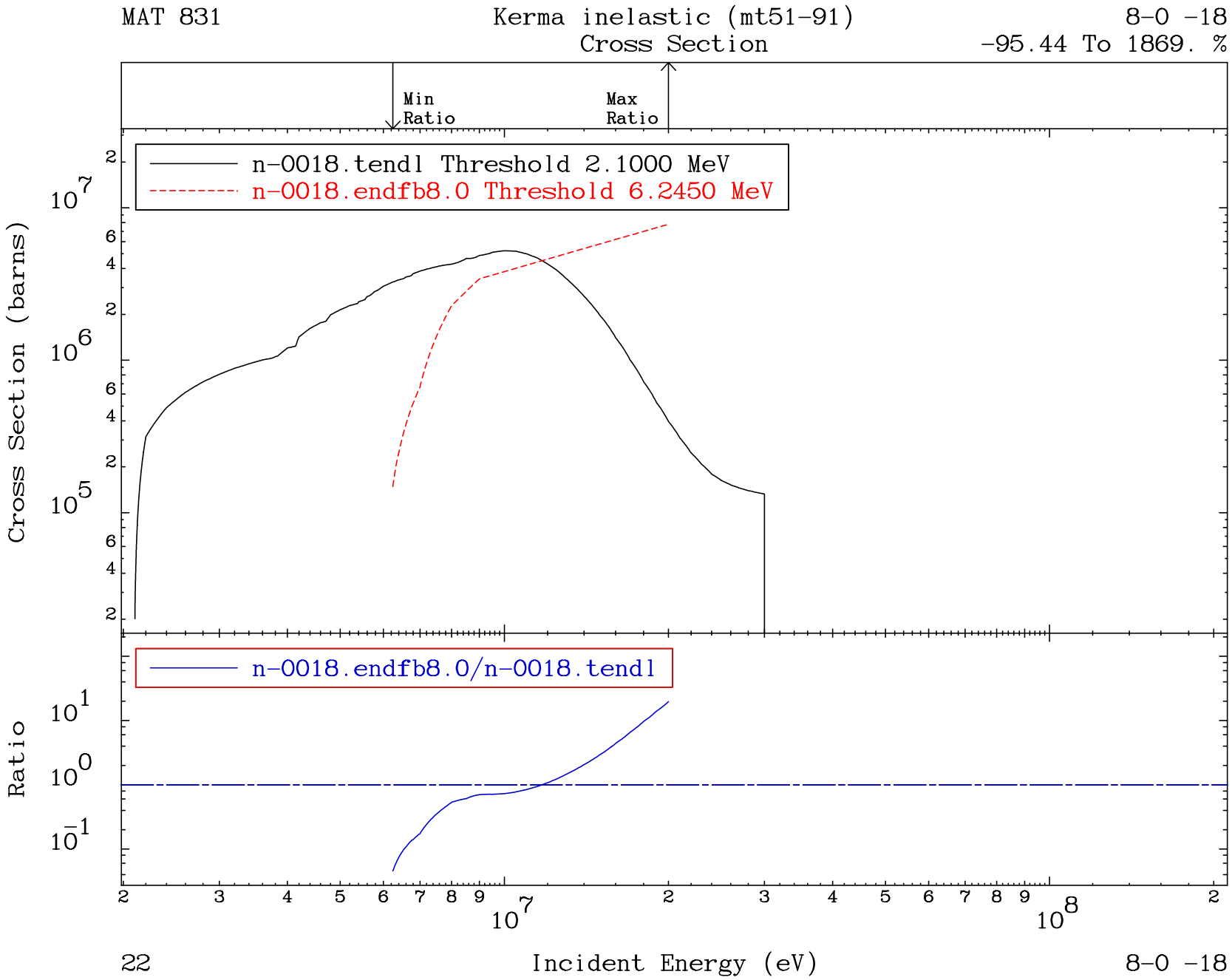

MAT 831
Tritium Production
Cross Section
8-0 -18
-99.87 To 2841. %
Min
Ratio
n-0018.tendl Threshold 14.178 MeV
n-0018.endfb8.0 Threshold 14.500 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
8-0 -18

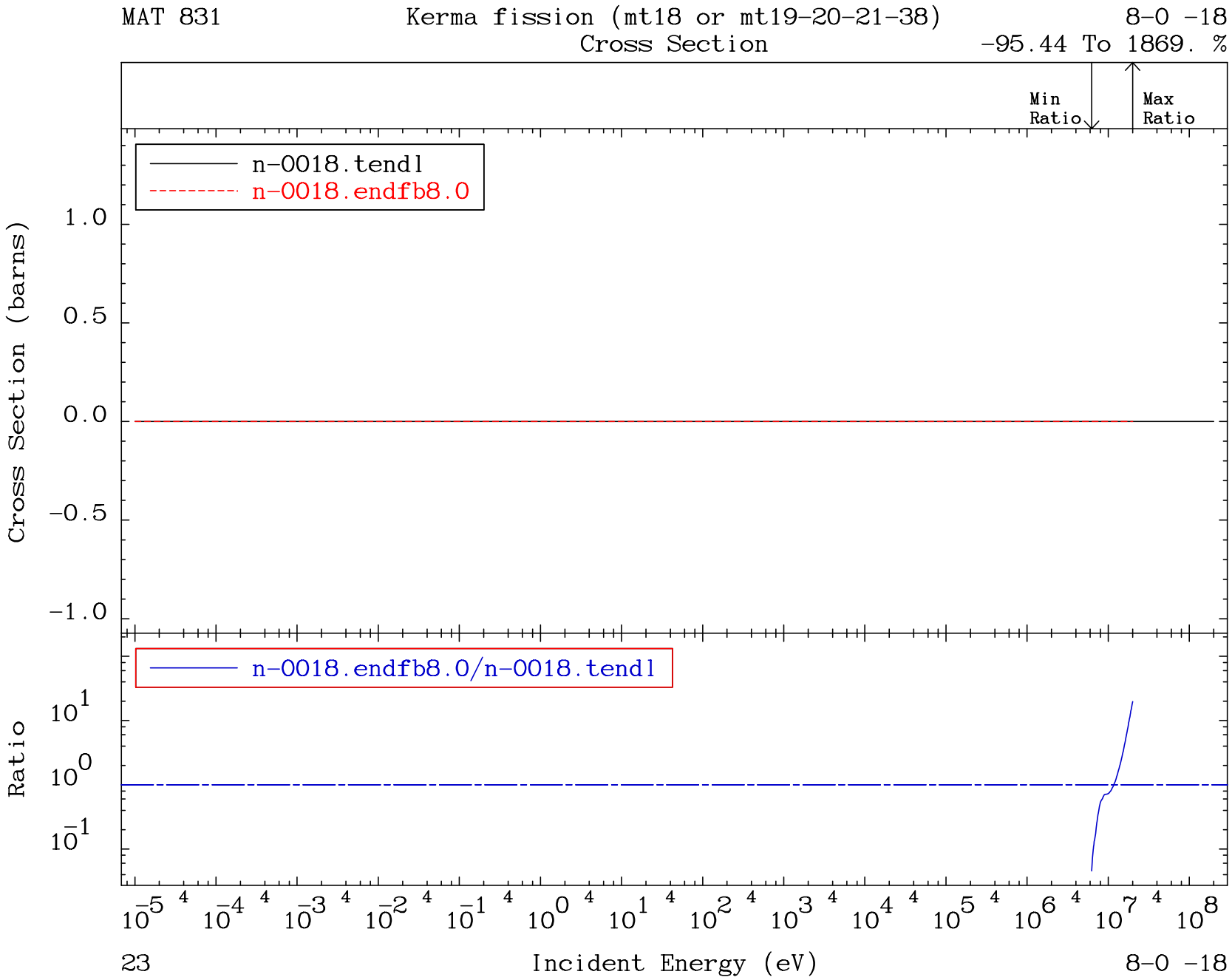

MAT 831
He-4 Production
Cross Section
8-0 -18
-77.21 To 9999. %
Max Ratio
Min Ratio
n-0018.tendl Threshold 5.3755 MeV
n-0018.endfb8.0 Threshold 5.2886 MeV
Cross Section (milli-barns)
150
100
50
0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^9
10^6
10^3
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
8-0 -18

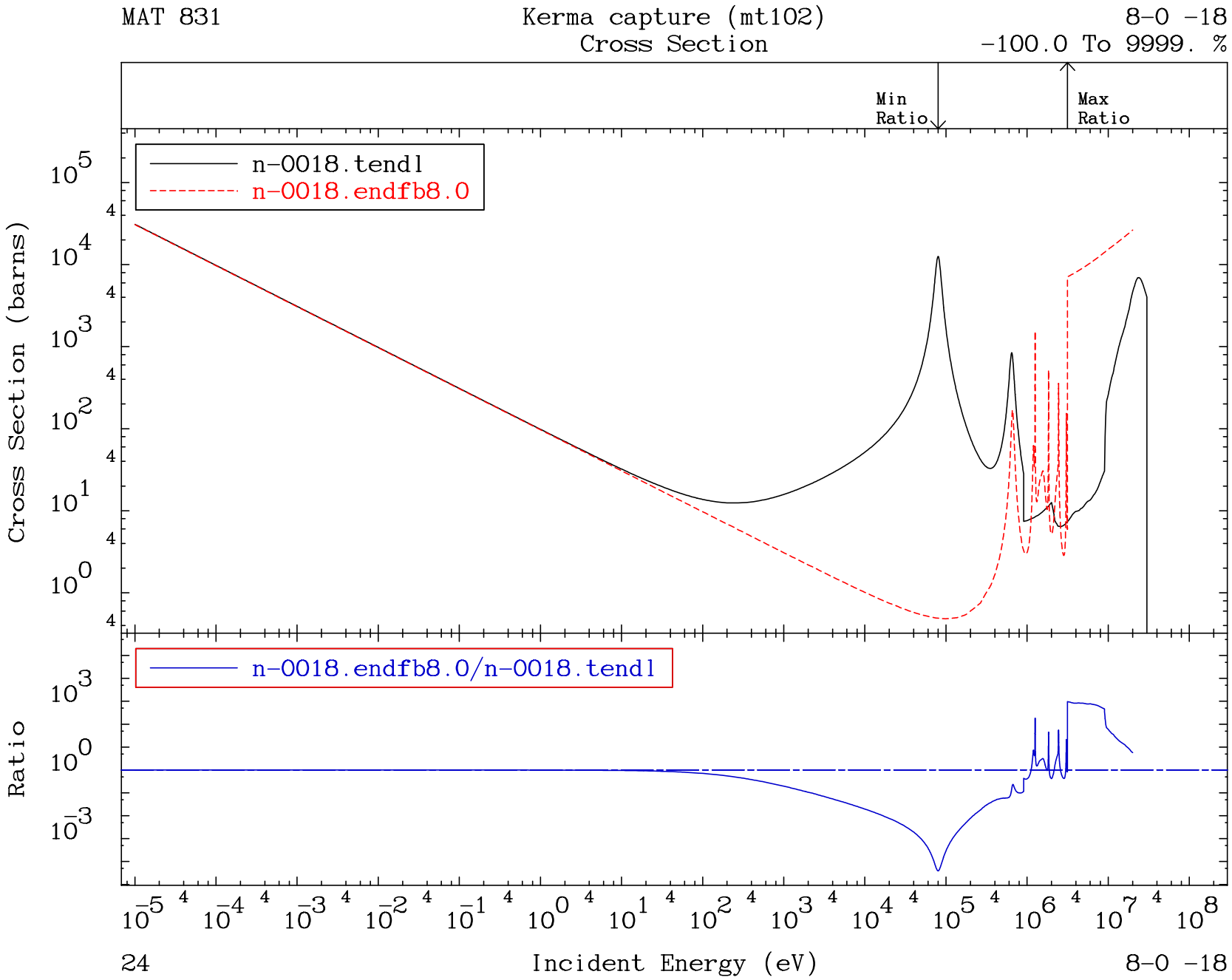

MAT 831
Kerma total (eV-barns)
Cross Section
8-0 -18
-96.21 To 321.1 %
Min Ratio
Max Ratio
n-0018.tendl
n-0018.endfb8.0
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
19
8-0 -18

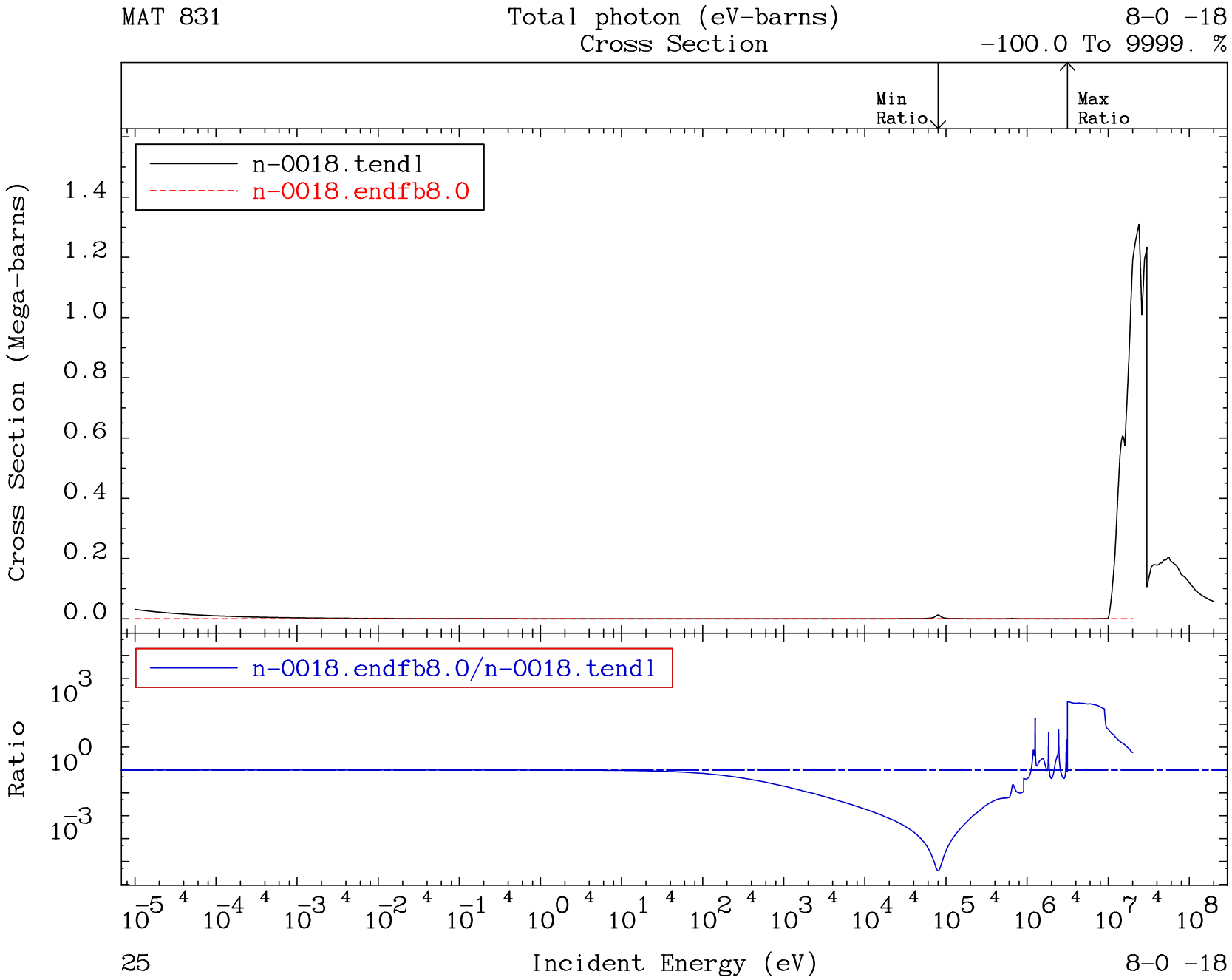

MAT 831
Kerma elastic
Cross Section
8-0 -18
-96.13 To 509.8 %
Min Ratio
Max Ratio
n-0018.tendl
n-0018.endfb8.0
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
20
8-0 -18

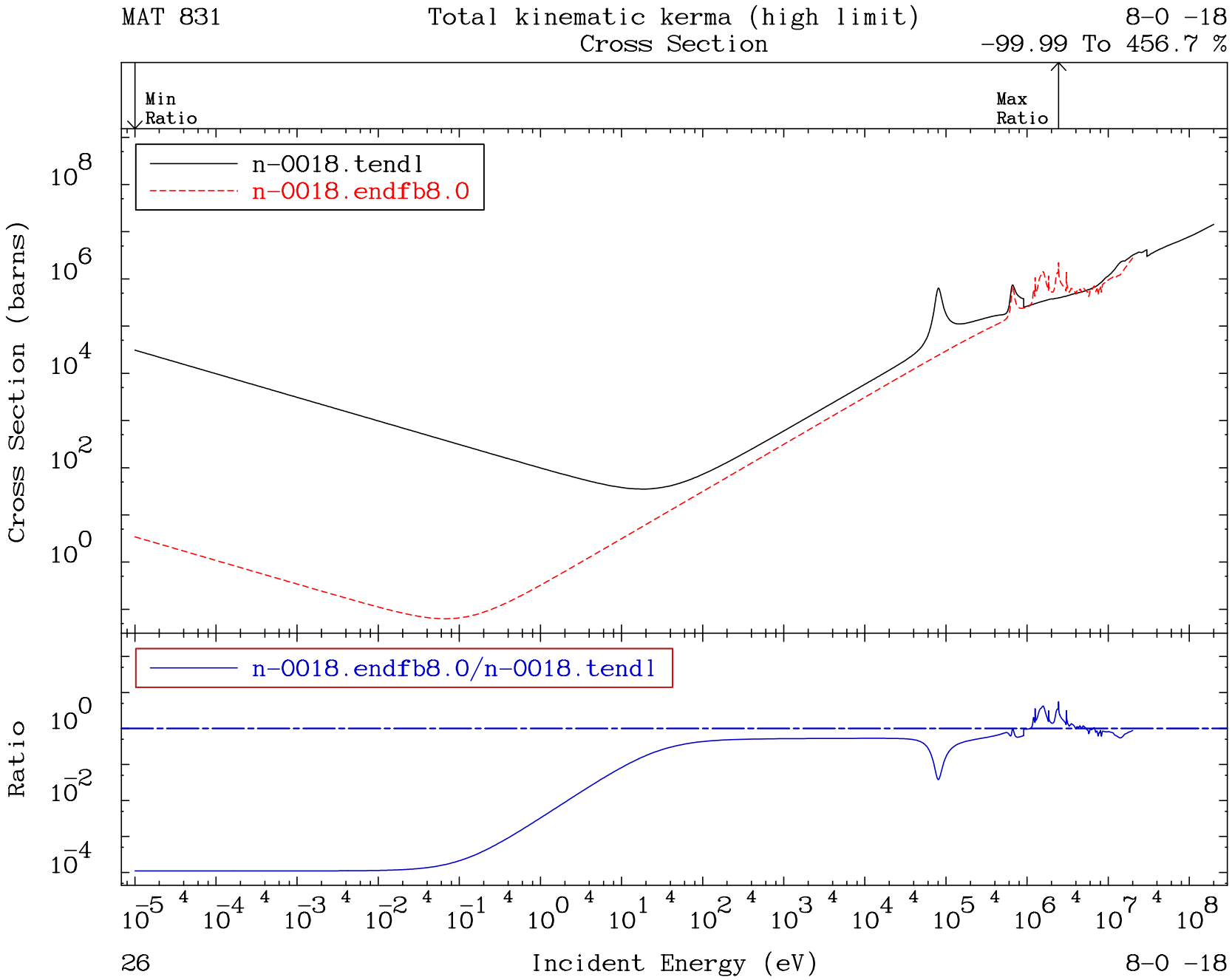

MAT 831
Kerma non-elastic (all but mt2)
Cross Section
8-0 -18
-100.0 To 9999. %
Max Ratio
Min Ratio
n-0018.tendl
n-0018.endfb8.0
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
21
8-0 -18

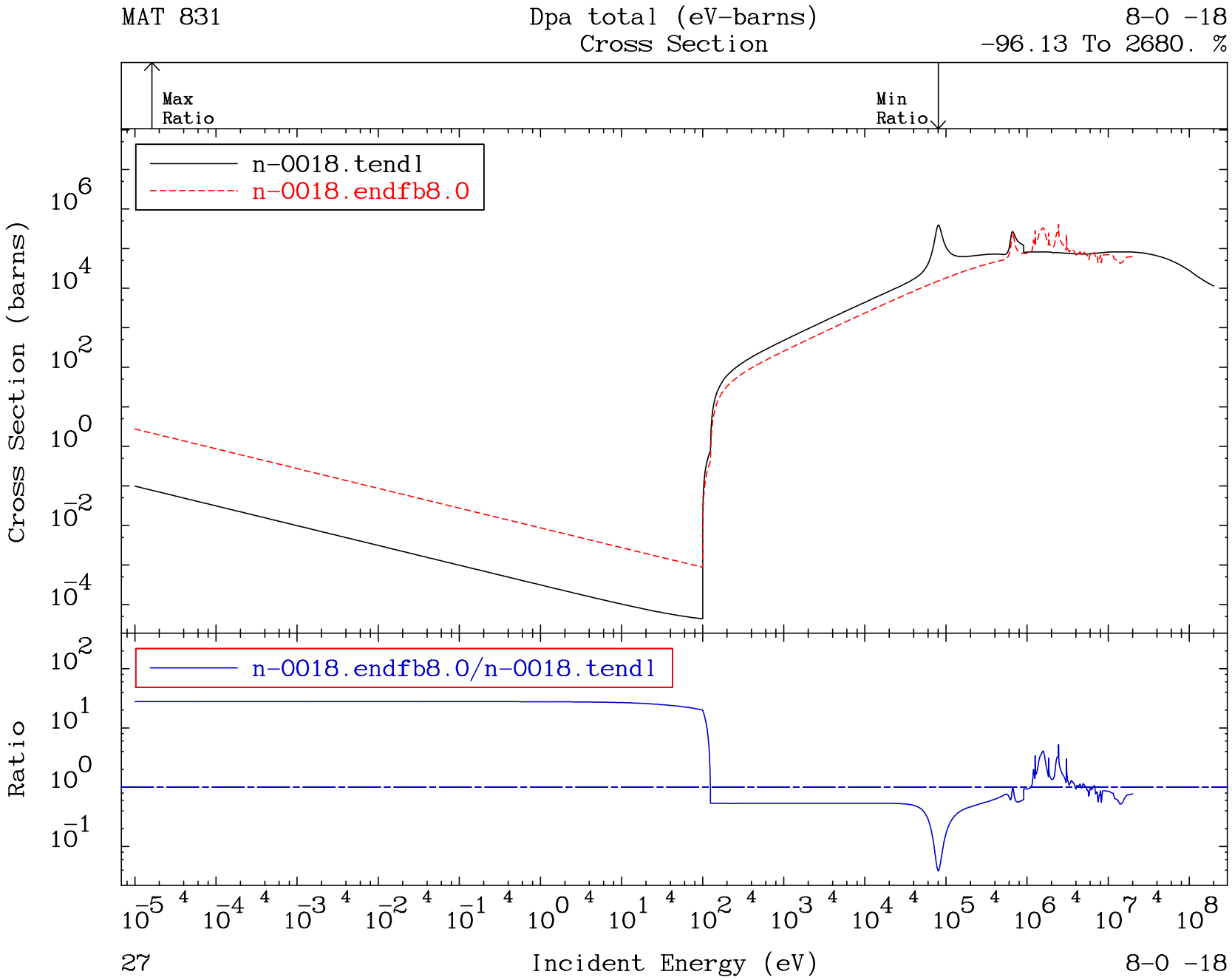

MAT 831
Kerma inelastic (mt51-91)
Cross Section
8-0 -18
-95.44 To 1869. %
Min Ratio
Max Ratio
n-0018.tendl Threshold 2.1000 MeV
n-0018.endfb8.0 Threshold 6.2450 MeV
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
22
8-0 -18

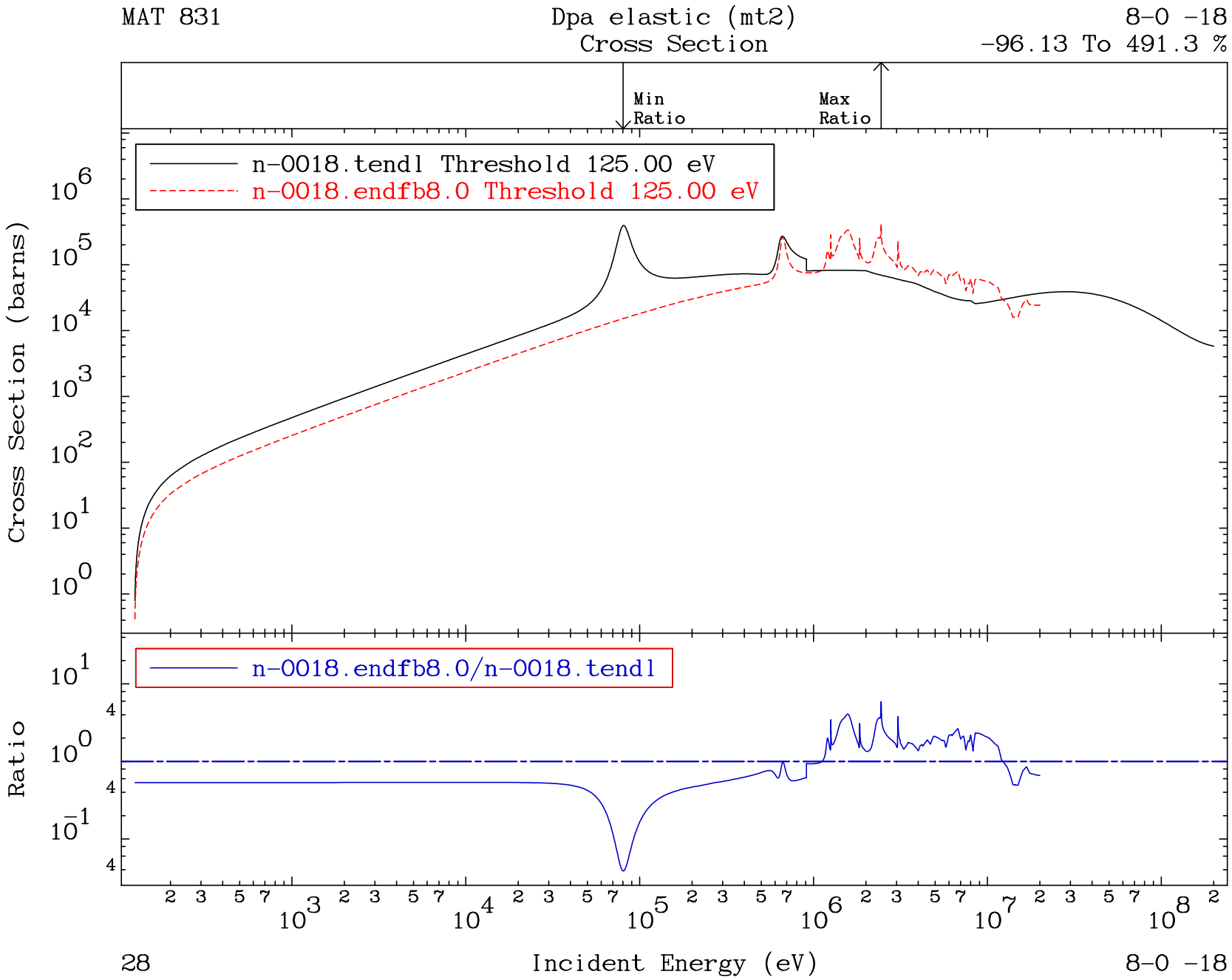

MAT 831
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
8-0 -18
-95.44 To 1869. %
Min Ratio
Max Ratio
n-0018.tendl
n-0018.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^1
10^0
10^-1
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
23
Incident Energy (eV)
8-0 -18

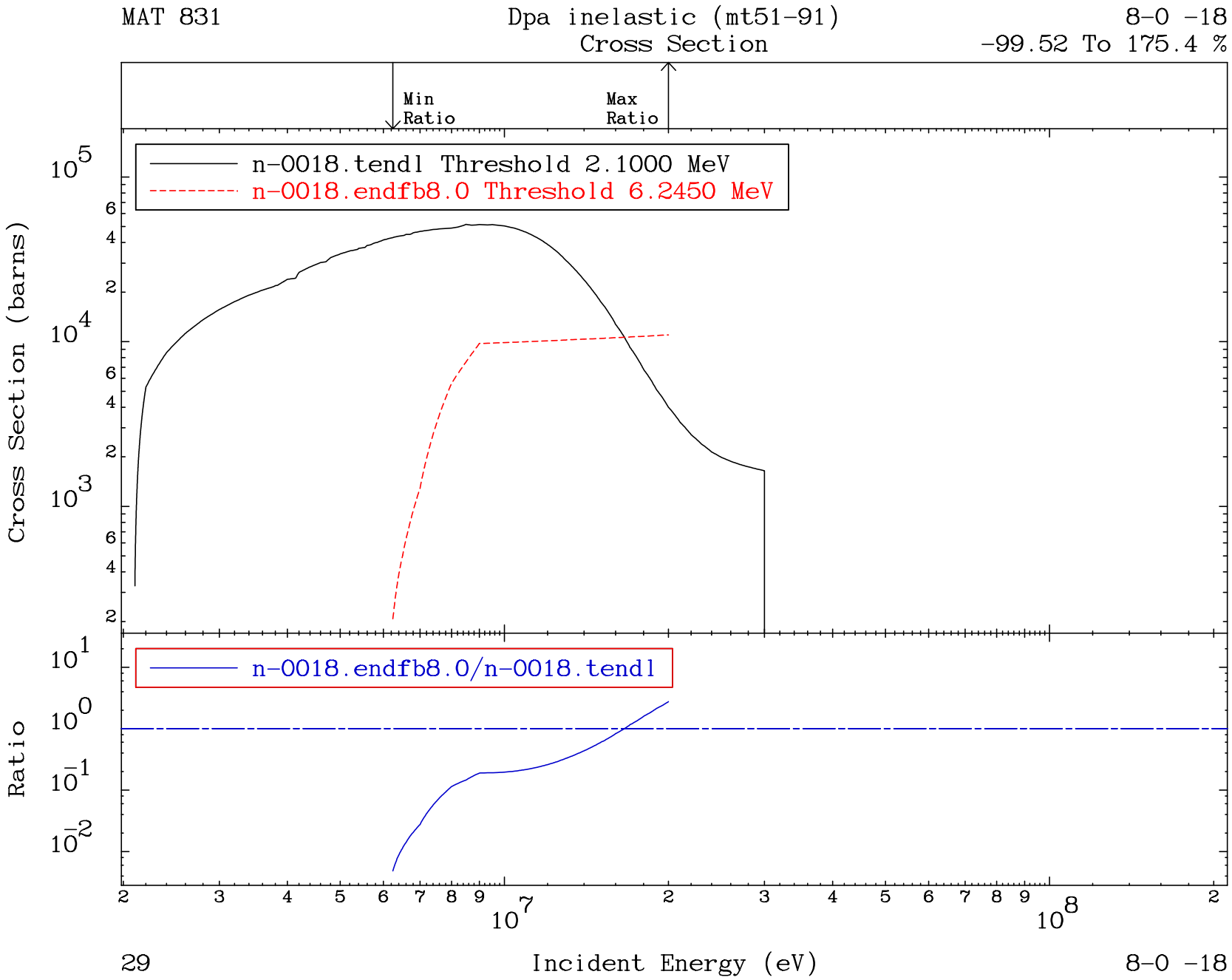

MAT 831
Kerma capture (mt102)
Cross Section
8-0 -18
-100.0 To 9999. %
Min Ratio
Max Ratio
n-0018.tendl
n-0018.endfb8.0
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
24
8-0 -18

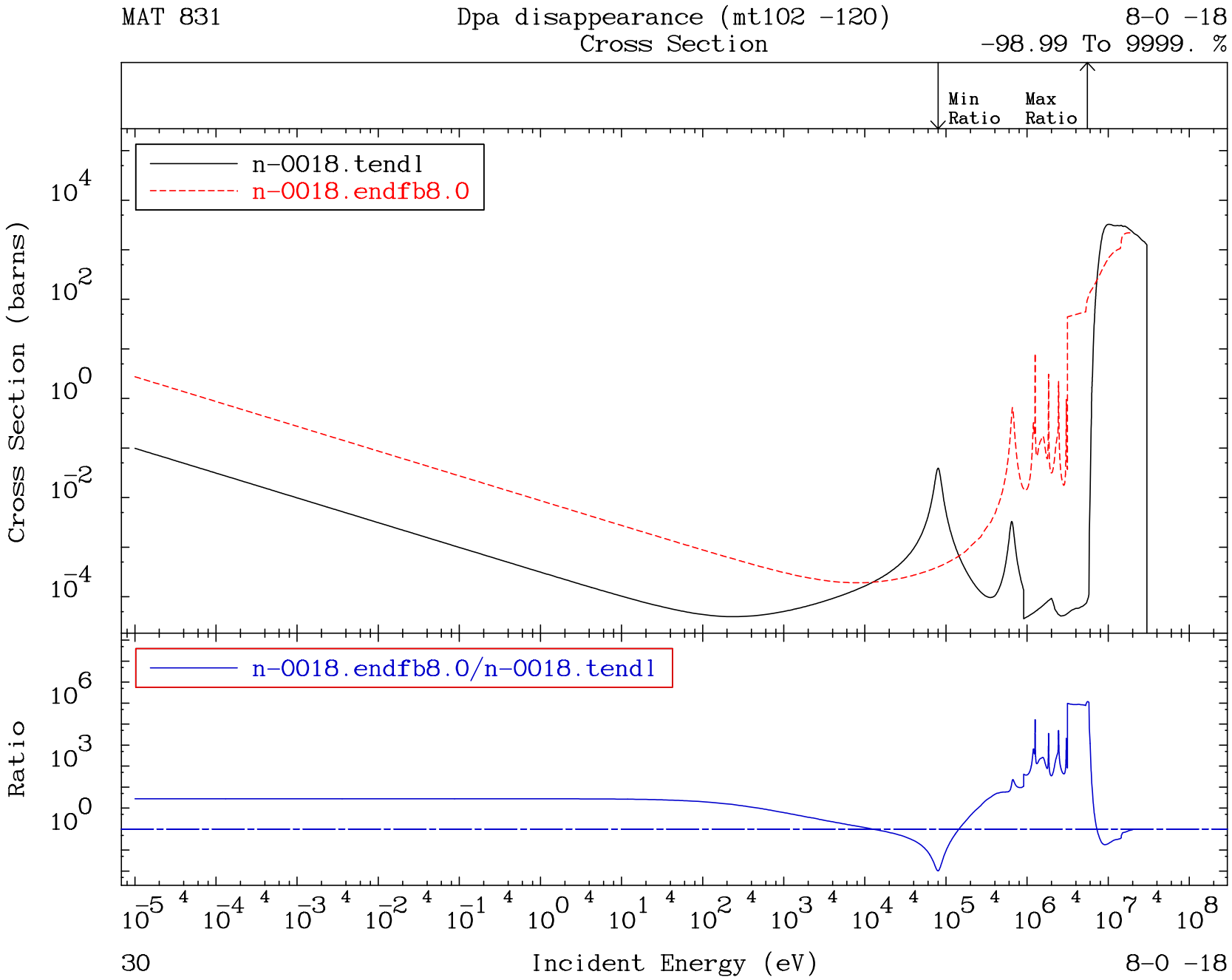

MAT 831
Total photon (eV-barns)
Cross Section
8-0 -18
-100.0 To 9999. %
Min Ratio
Max Ratio
n-0018.tendl
n-0018.endfb8.0
Cross Section (Mega-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-0018.endfb8.0/n-0018.tendl
Ratio
10^3
10^0
10^-3
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
25
Incident Energy (eV)
8-0 -18


MAT 831
Total kinematic kerma (high limit)
Cross Section
8-0 -18
-99.99 To 456.7 %
Min Ratio
Max Ratio
n-0018.tendl
n-0018.endfb8.0
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
26
8-0 -18


MAT 831
Dpa total (eV-barns)
Cross Section
8-0 -18
-96.13 To 2680. %
Max Ratio
Min Ratio
n-0018.tendl
n-0018.endfb8.0
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
27
8-0 -18


MAT 831
Dpa elastic (mt2)
Cross Section
8-0 -18
-96.13 To 491.3 %
Min Ratio
Max Ratio
n-0018.tendl Threshold 125.00 eV
n-0018.endfb8.0 Threshold 125.00 eV
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
28
8-0 -18


MAT 831
Dpa inelastic (mt51-91)
Cross Section
8-0 -18
-99.52 To 175.4 %
Min Ratio
Max Ratio
n-0018.tendl Threshold 2.1000 MeV
n-0018.endfb8.0 Threshold 6.2450 MeV
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
29
8-0 -18


MAT 831
Dpa disappearance (mt102 -120)
Cross Section
8-0 -18
-98.99 To 9999. %
Min Ratio
Max Ratio
n-0018.tendl
n-0018.endfb8.0
Cross Section (barns)
n-0018.endfb8.0/n-0018.tendl
Ratio
Incident Energy (eV)
30
8-0 -18