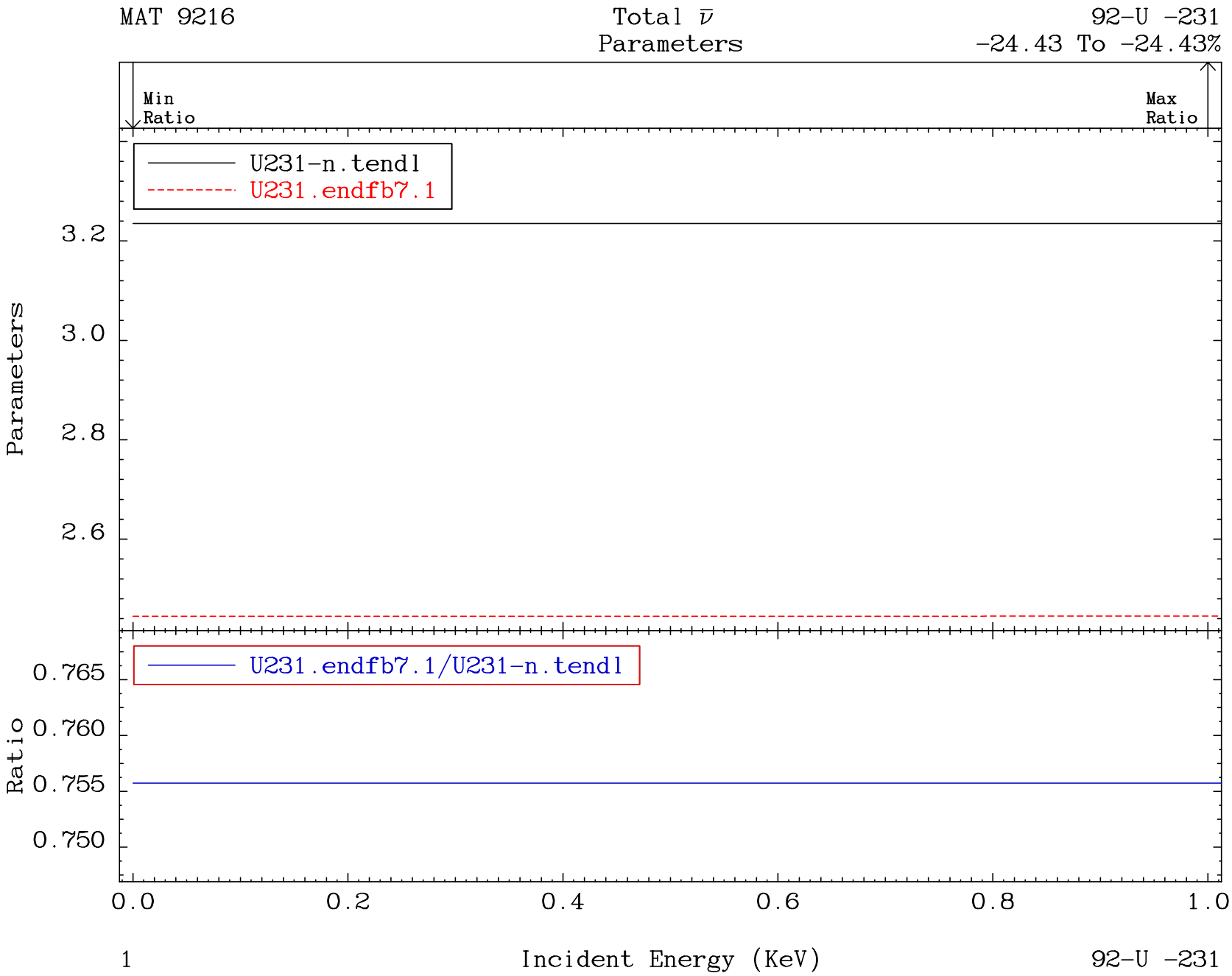
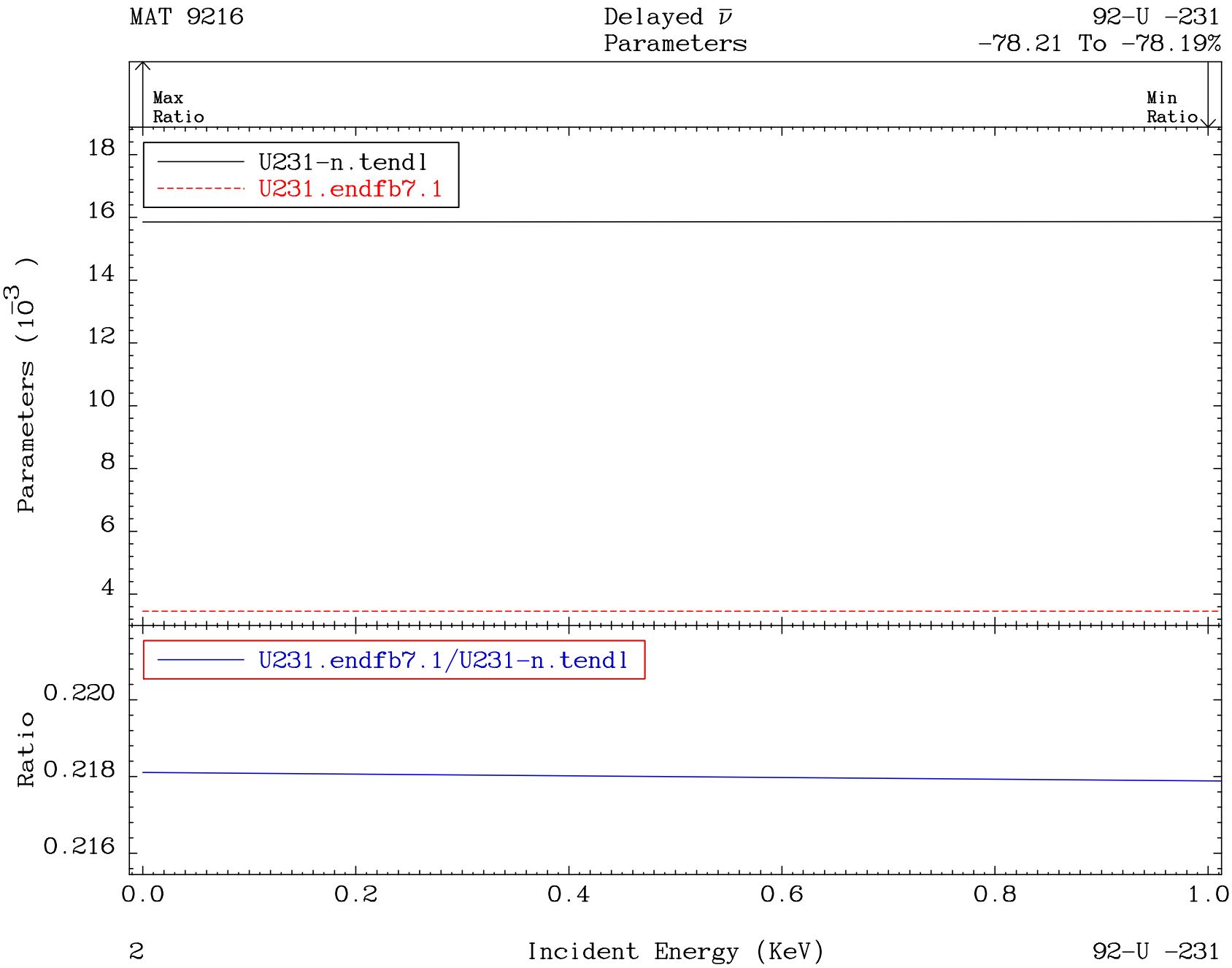
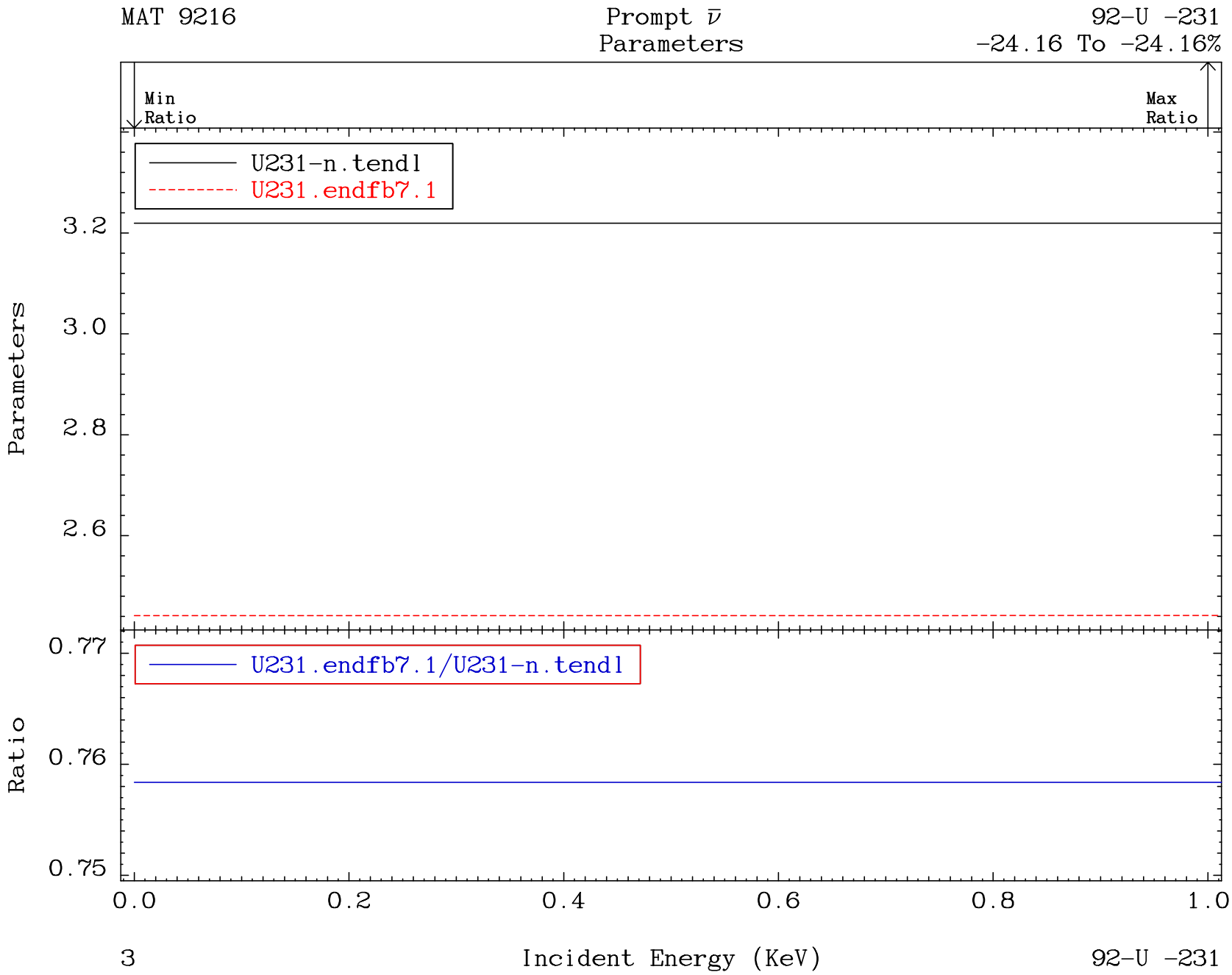
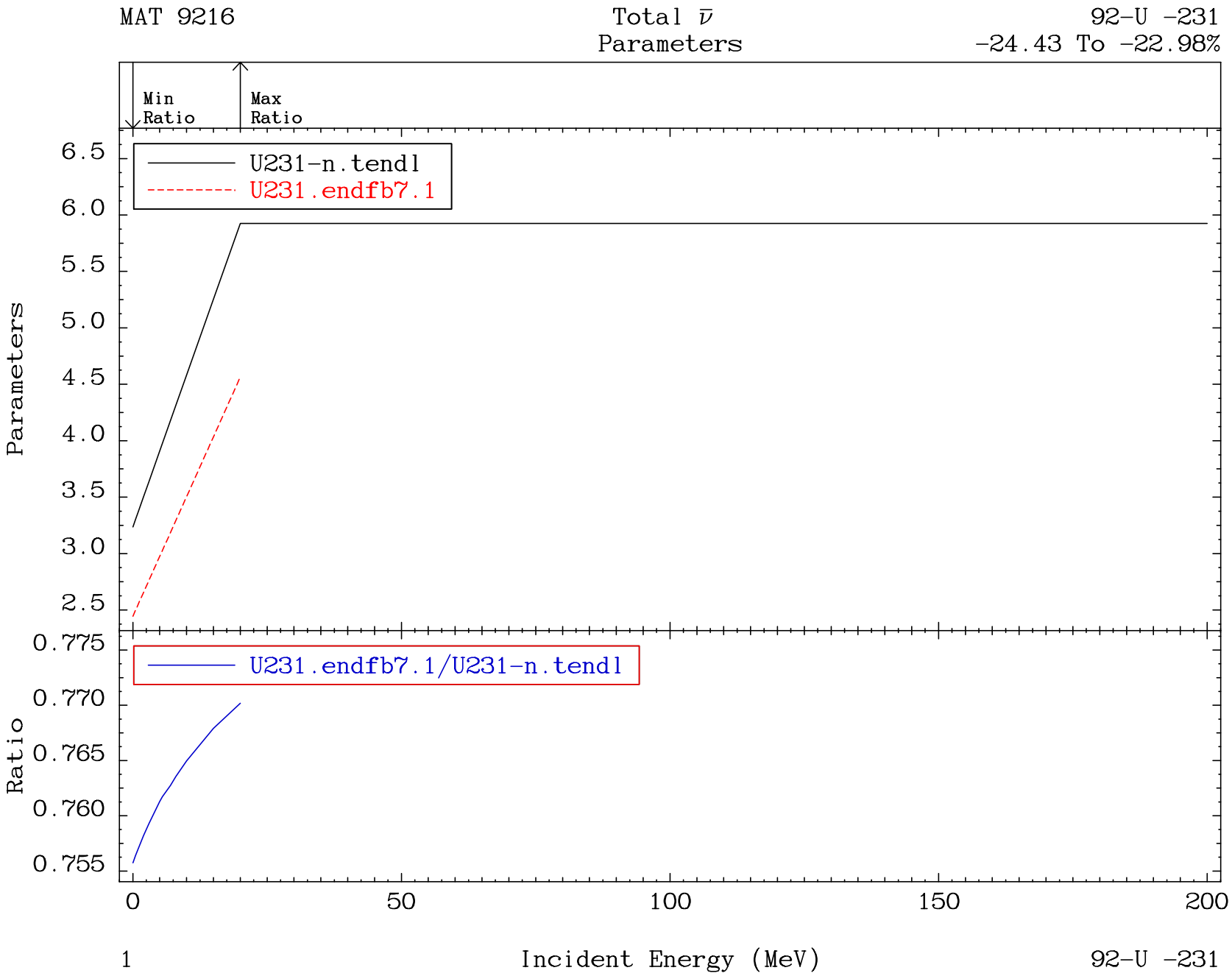
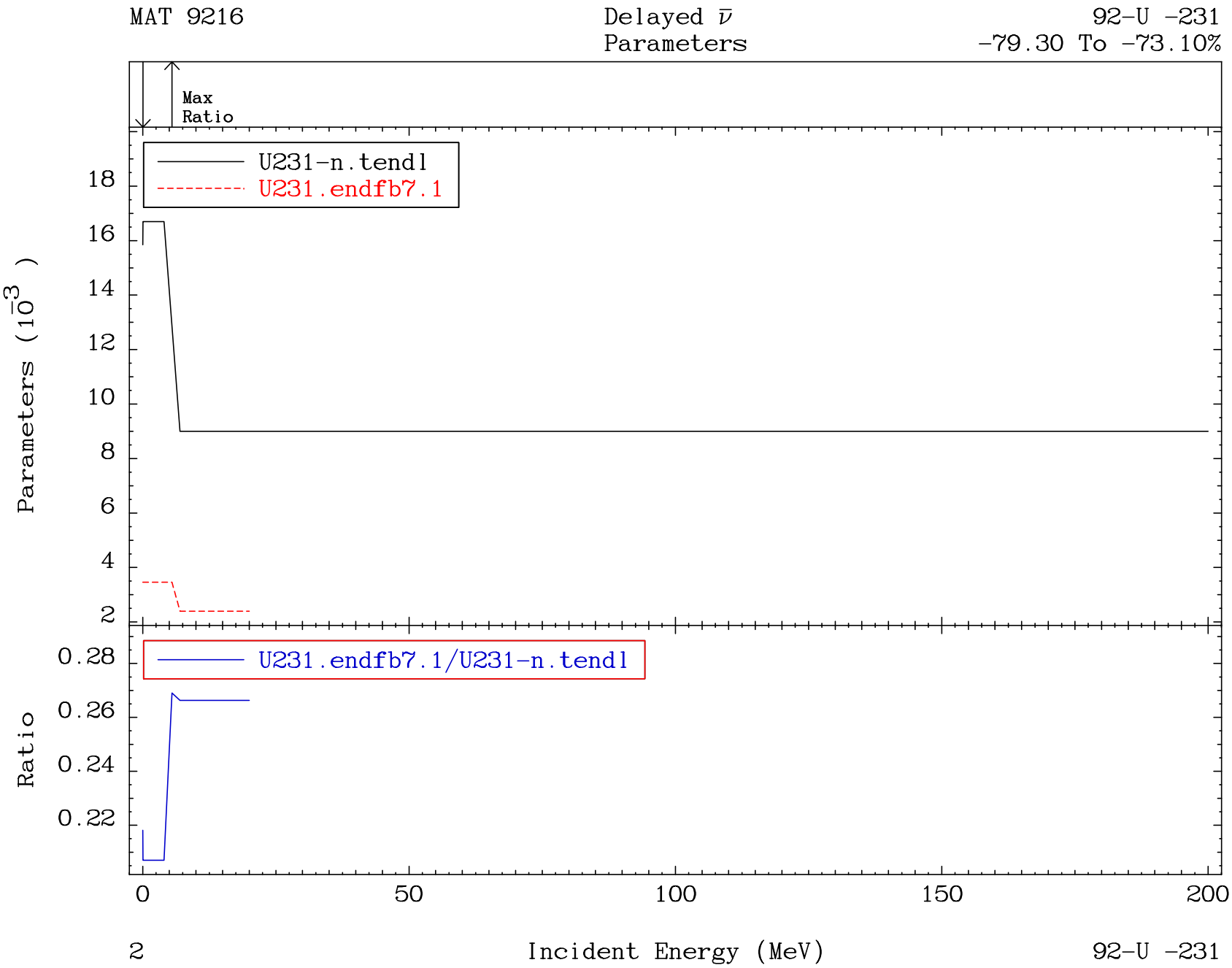
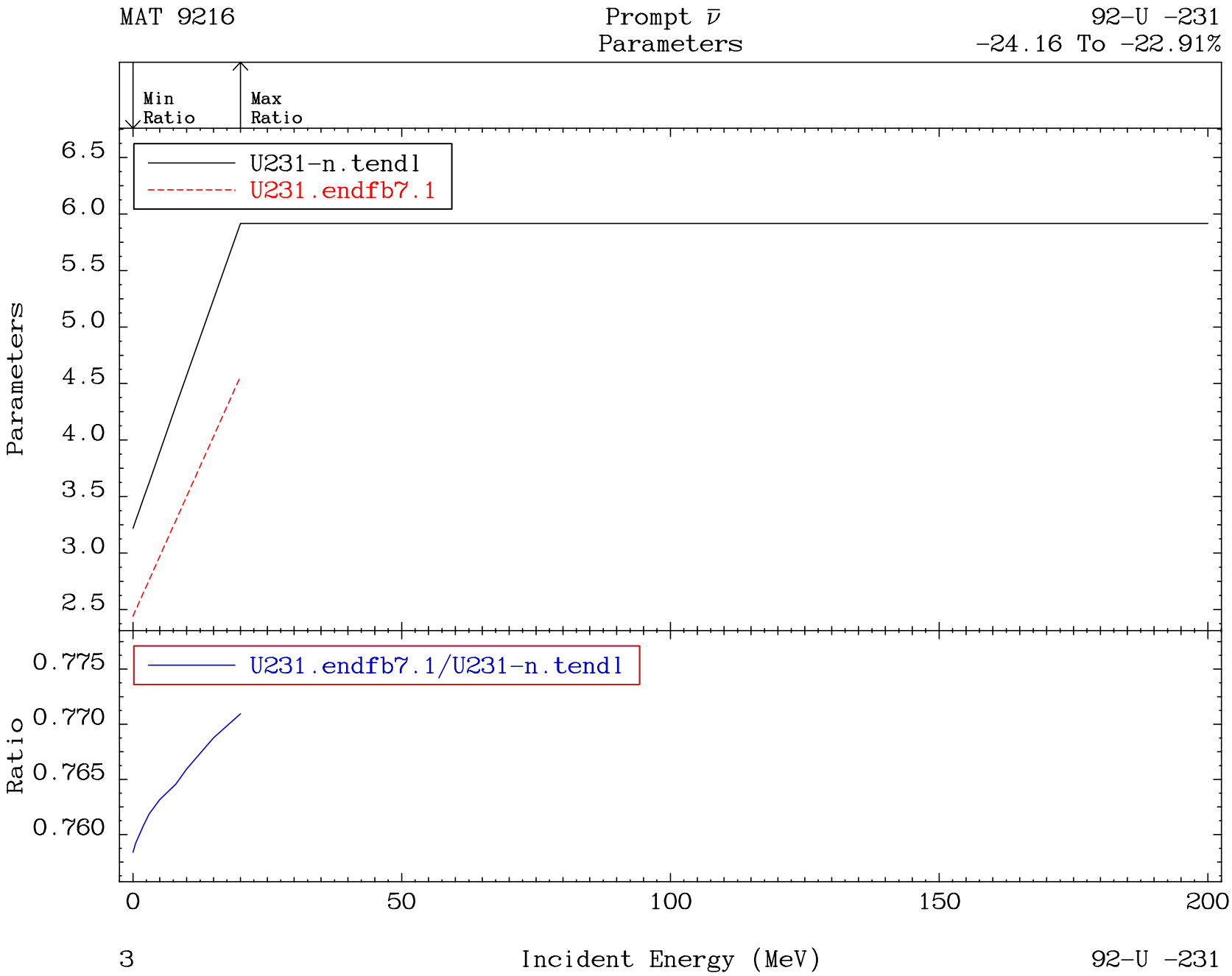

MAT 9216
Total $\bar{\nu}$
Parameters
92-U -231
-24.43 To -24.43%
Min
Ratio
Max
Ratio
U231-n.tendl
U231.endfb7.1
U231.endfb7.1/U231-n.tendl
Parameters
Ratio
3.2
3.0
2.8
2.6
0.765
0.760
0.755
0.750
0.0
0.2
0.4
0.6
0.8
1.0
1
Incident Energy (KeV)
92-U -231

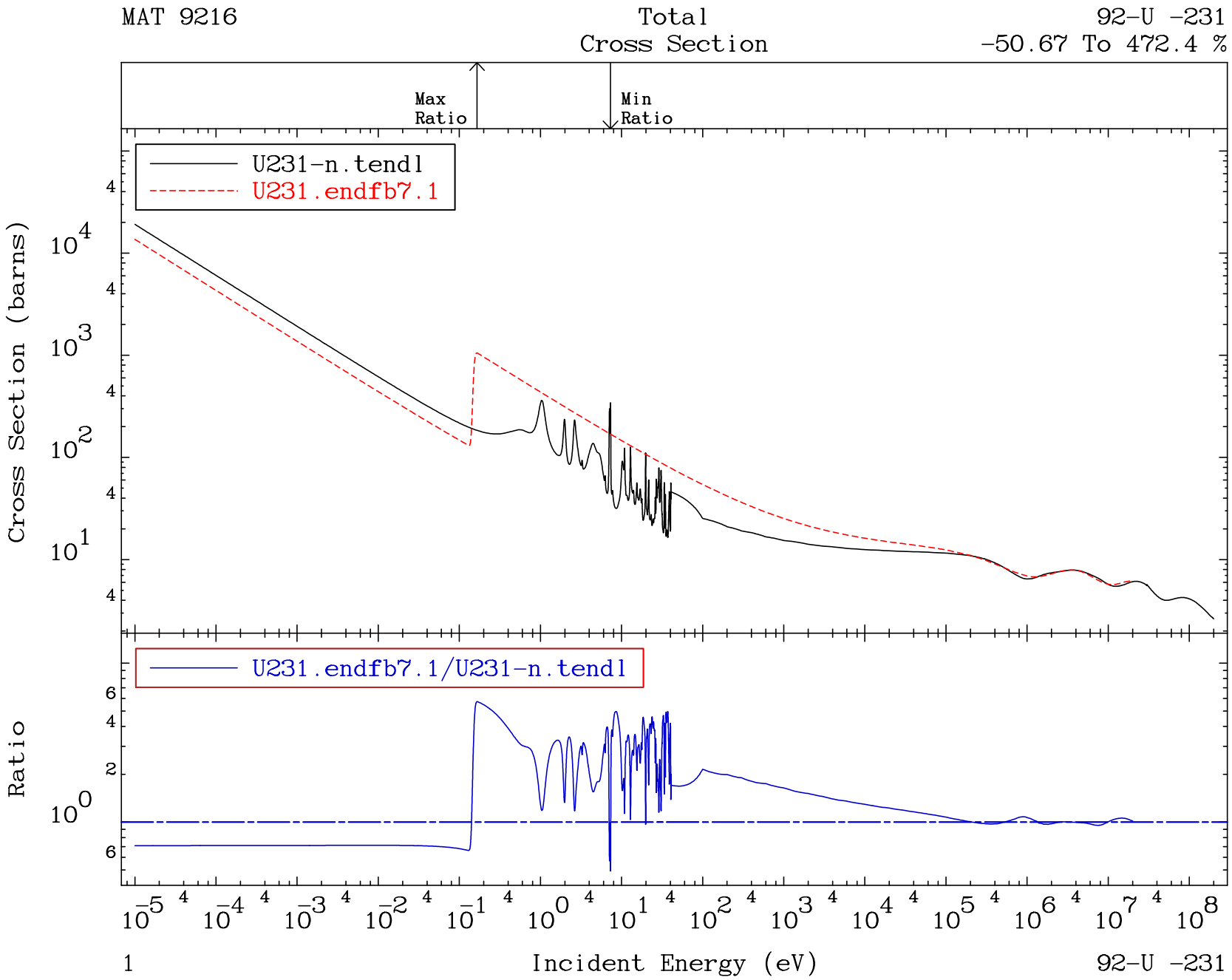

MAT 9216
Delayed $\bar{\nu}$
Parameters
92-U -231
-78.21 To -78.19%
Max
Ratio
Min
Ratio
U231-n.tendl
U231.endfb7.1
Parameters (10^{-3})
18
16
14
12
10
8
6
4
U231.endfb7.1/U231-n.tendl
Ratio
0.220
0.218
0.216
0.0
0.2
0.4
0.6
0.8
1.0
2
Incident Energy (KeV)
92-U -231

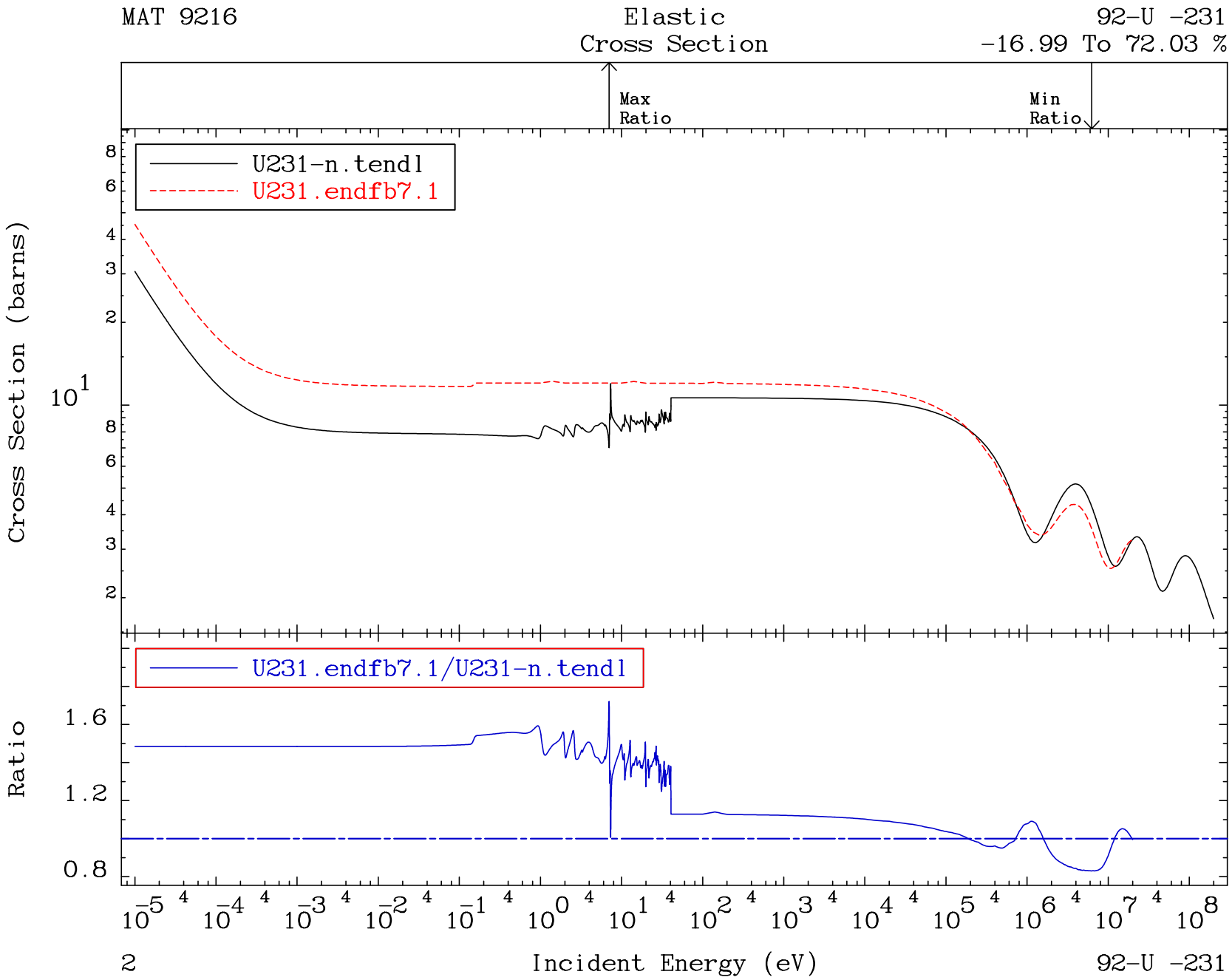

MAT 9216
Prompt $\bar{\nu}$
Parameters
92-U -231
-24.16 To -24.16%
Min
Ratio
Max
Ratio
U231-n.tendl
U231.endfb7.1
U231.endfb7.1/U231-n.tendl
Parameters
Ratio
3.2
3.0
2.8
2.6
0.77
0.76
0.75
0.0
0.2
0.4
0.6
0.8
1.0
3
Incident Energy (KeV)
92-U -231

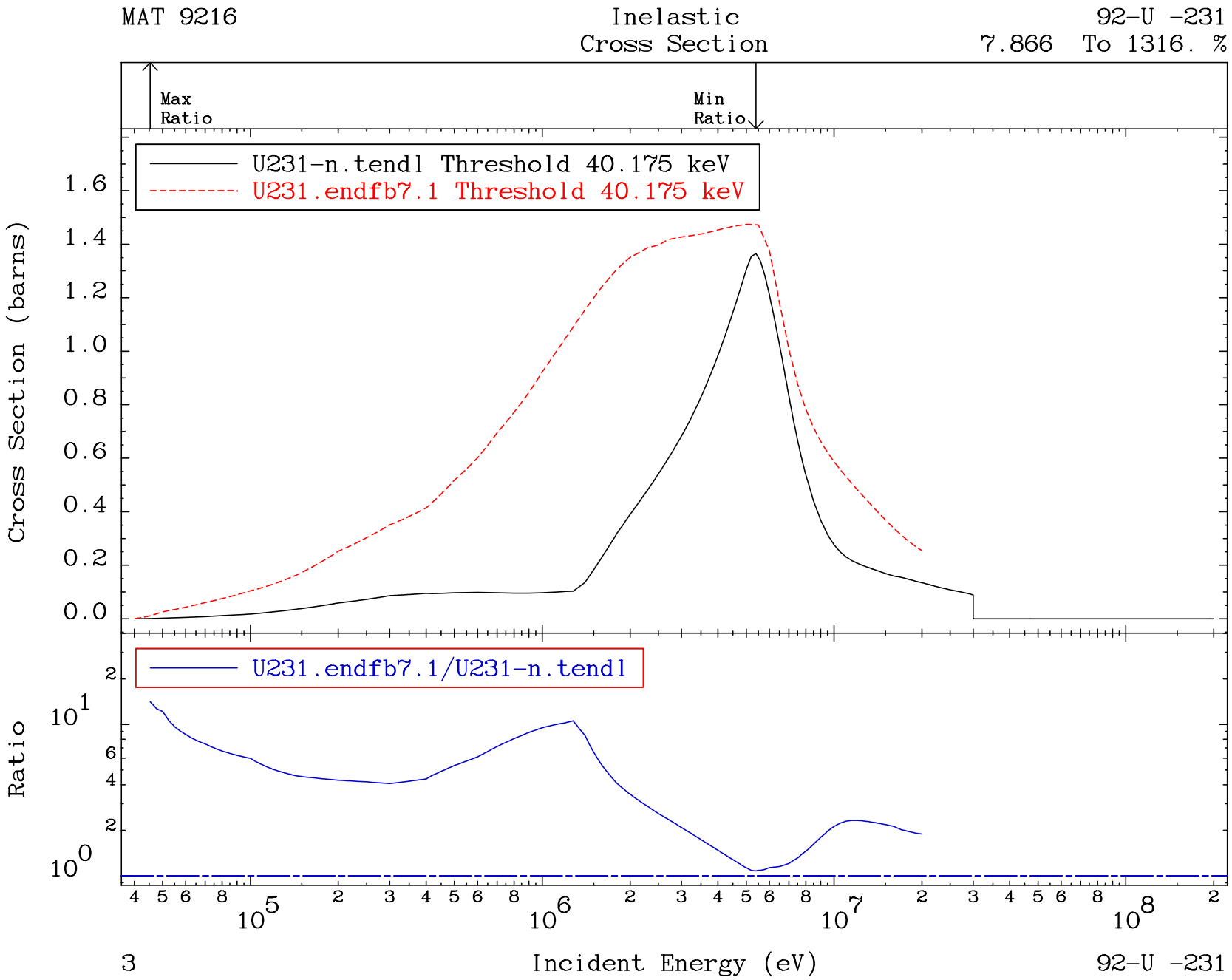

MAT 9216
Total $\bar{\nu}$
Parameters
92-U -231
-24.43 To -22.98%
Min Ratio
Max Ratio
U231-n.tendl
U231.endfb7.1
Parameters
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
U231.endfb7.1/U231-n.tendl
Ratio
0.775
0.770
0.765
0.760
0.755
0
50
100
150
200
1
Incident Energy (MeV)
92-U -231

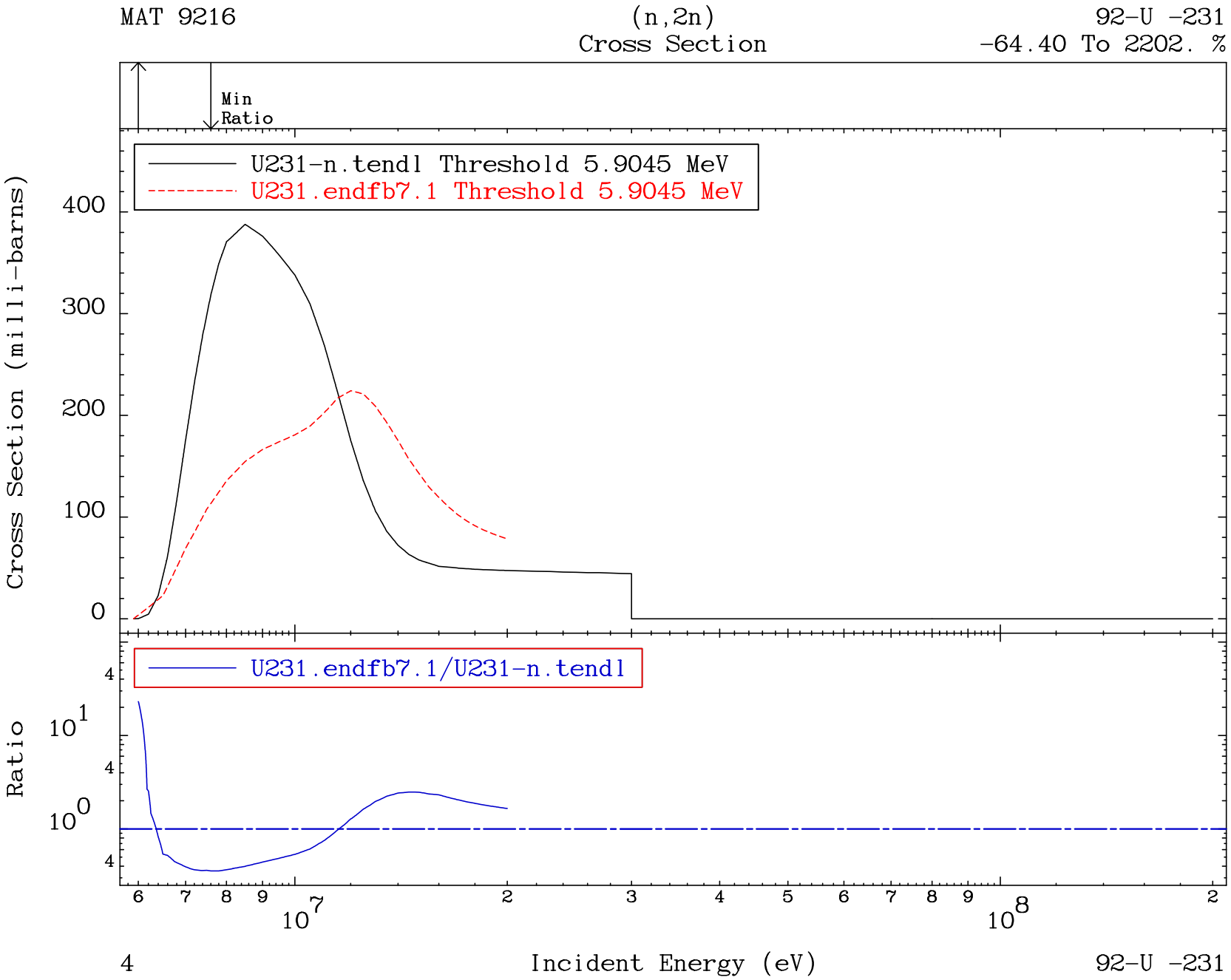

MAT 9216
Delayed $\bar{\nu}$
Parameters
92-U -231
-79.30 To -73.10%
Max
Ratio
U231-n.tendl
U231.endfb7.1
Parameters (10^{-3})
18
16
14
12
10
8
6
4
2
U231.endfb7.1/U231-n.tendl
Ratio
0.28
0.26
0.24
0.22
0
50
100
150
200
2
Incident Energy (MeV)
92-U -231

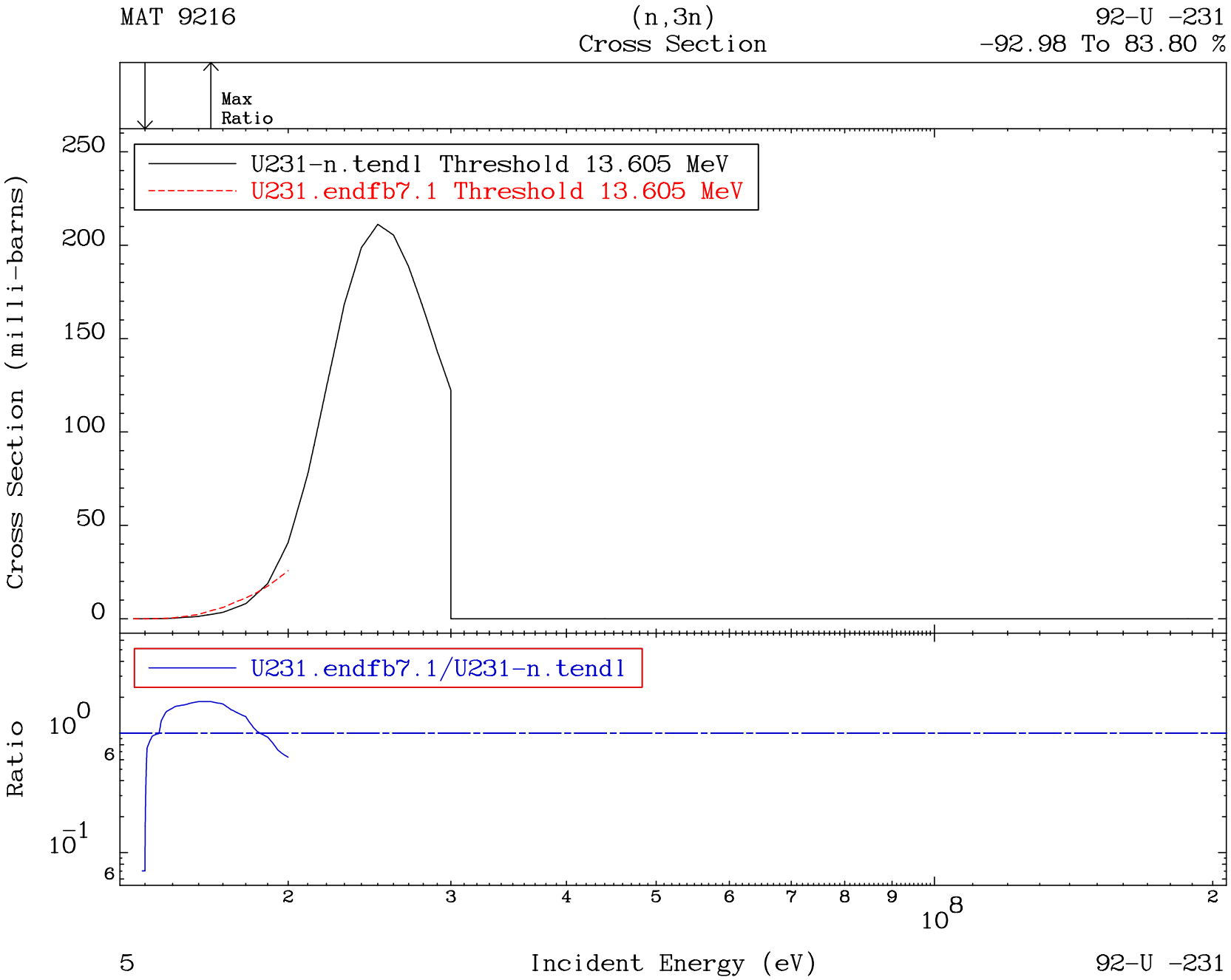

MAT 9216
Prompt $\bar{\nu}$
Parameters
92-U -231
-24.16 To -22.91%
Min
Ratio
Max
Ratio
U231-n.tendl
U231.endfb7.1
Parameters
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
U231.endfb7.1/U231-n.tendl
Ratio
0.775
0.770
0.765
0.760
0
50
100
150
200
3
Incident Energy (MeV)
92-U -231

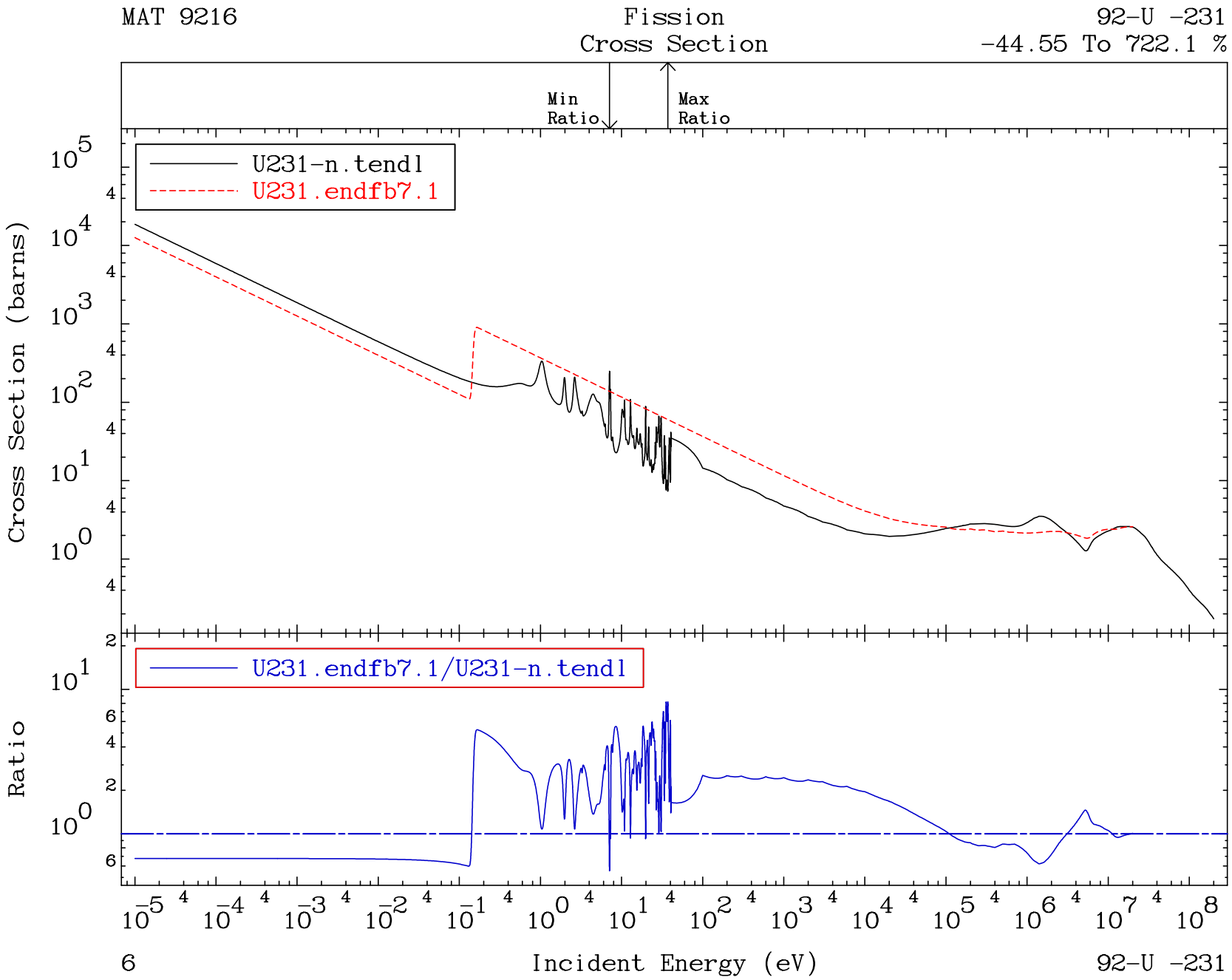

MAT 9216
Total
Cross Section
92-U -231
-50.67 To 472.4 %
Max
Ratio
Min
Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
92-U -231
1

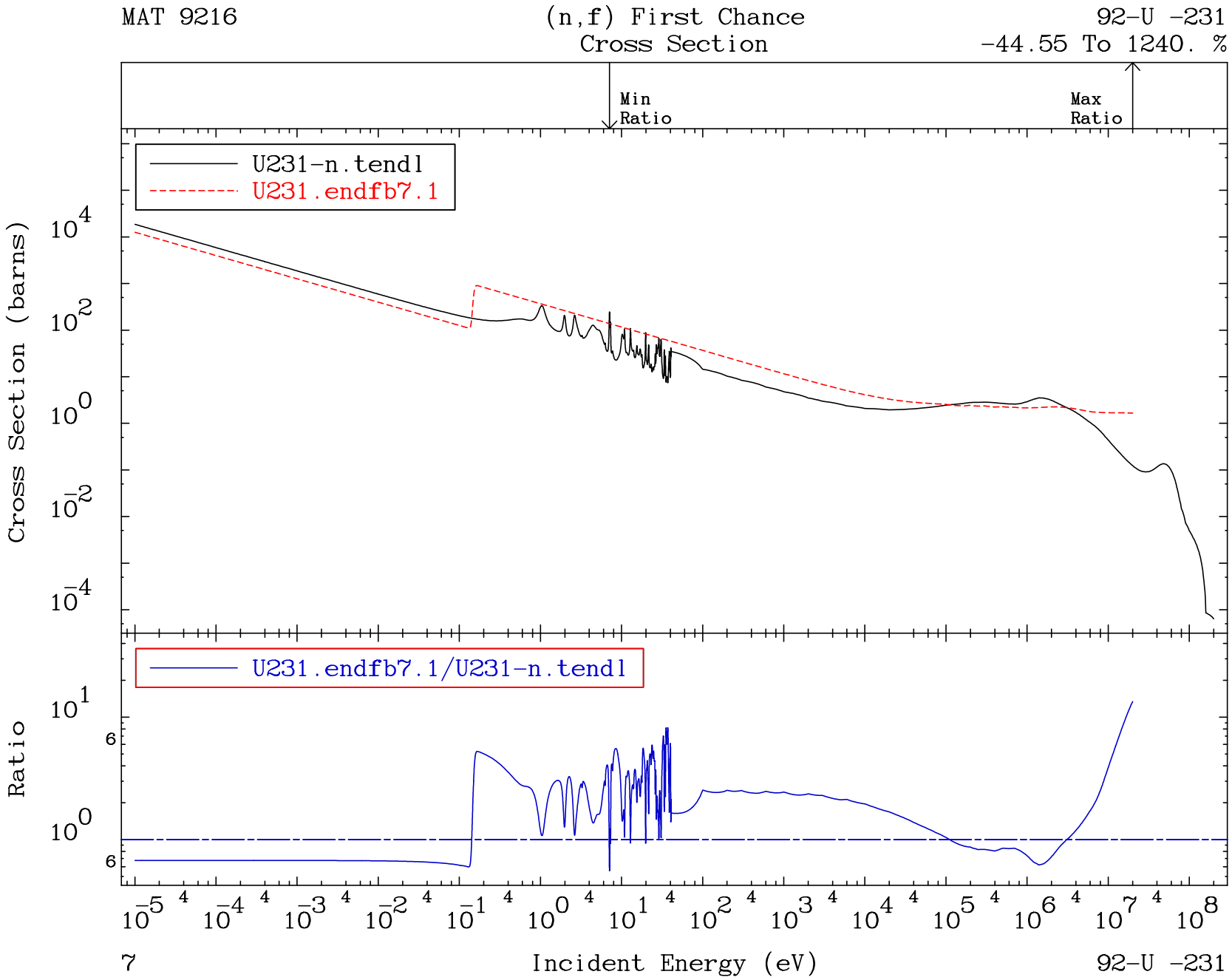

MAT 9216
Elastic
Cross Section
92-U -231
-16.99 To 72.03 %
Max
Ratio
Min
Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
92-U -231
2

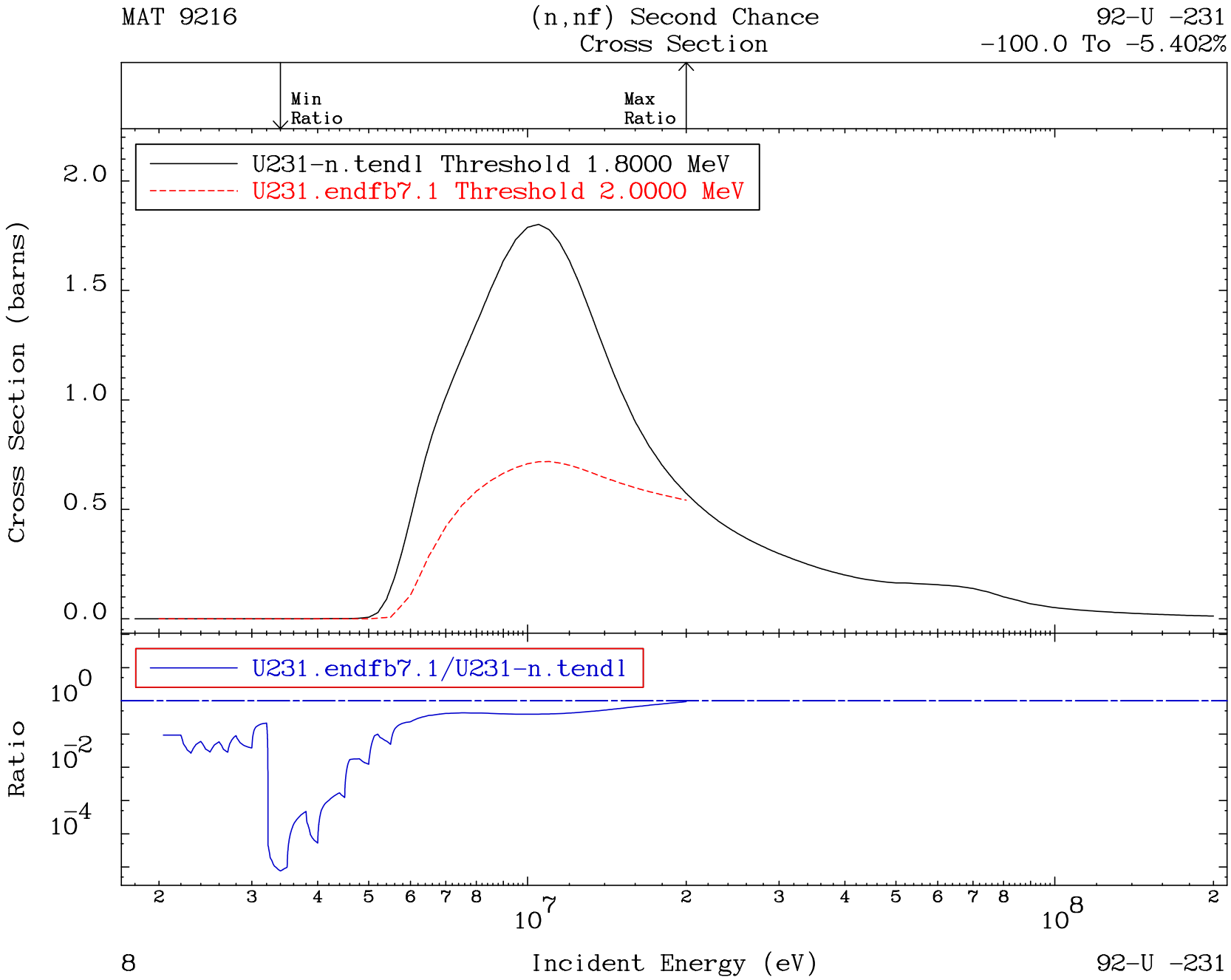

MAT 9216
Inelastic
Cross Section
92-U -231
7.866 To 1316. %
Max
Ratio
Min
Ratio
U231-n.tendl Threshold 40.175 keV
U231.endfb7.1 Threshold 40.175 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
U231.endfb7.1/U231-n.tendl
Ratio
2
10^1
6
4
2
10^0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
92-U -231

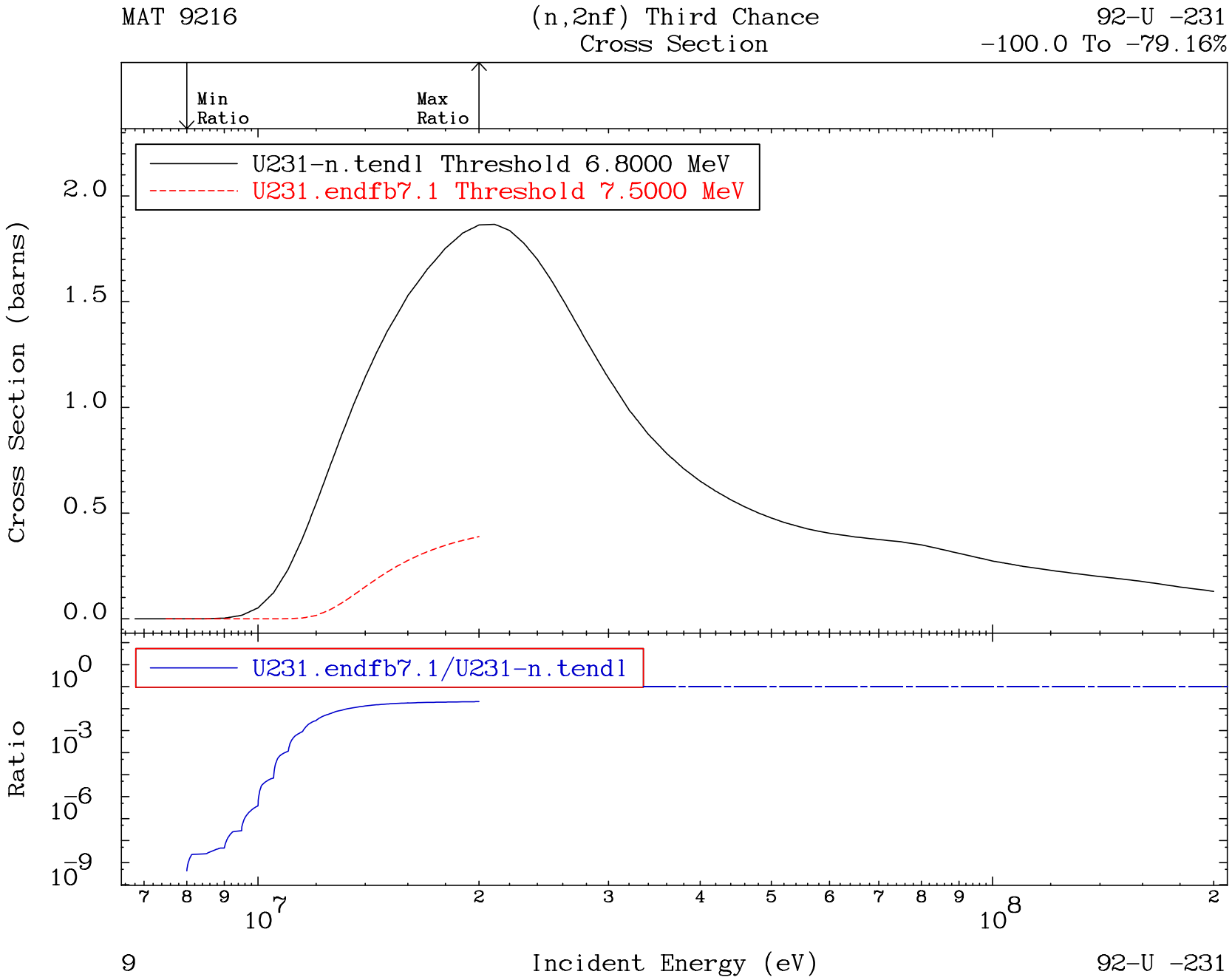

MAT 9216
(n,2n)
Cross Section
92-U -231
-64.40 To 2202. %
Min
Ratio
U231-n.tendl Threshold 5.9045 MeV
U231.endfb7.1 Threshold 5.9045 MeV
Cross Section (milli-barns)
400
300
200
100
0
U231.endfb7.1/U231-n.tendl
Ratio
10^1
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
4
92-U -231

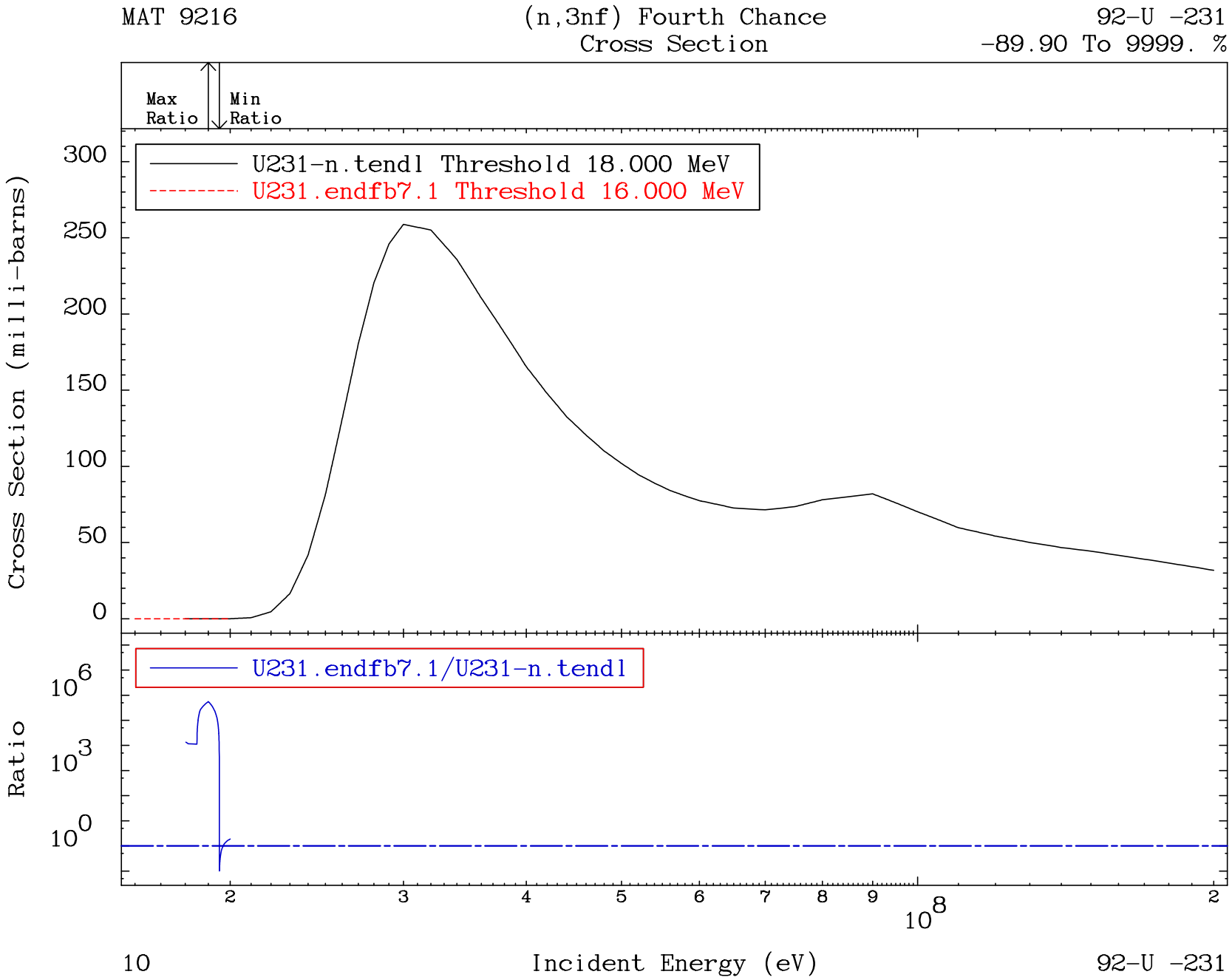

MAT 9216
(n,3n)
Cross Section
92-U -231
-92.98 To 83.80 %
Max
Ratio
U231-n.tendl Threshold 13.605 MeV
U231.endfb7.1 Threshold 13.605 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
U231.endfb7.1/U231-n.tendl
Ratio
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
92-U -231

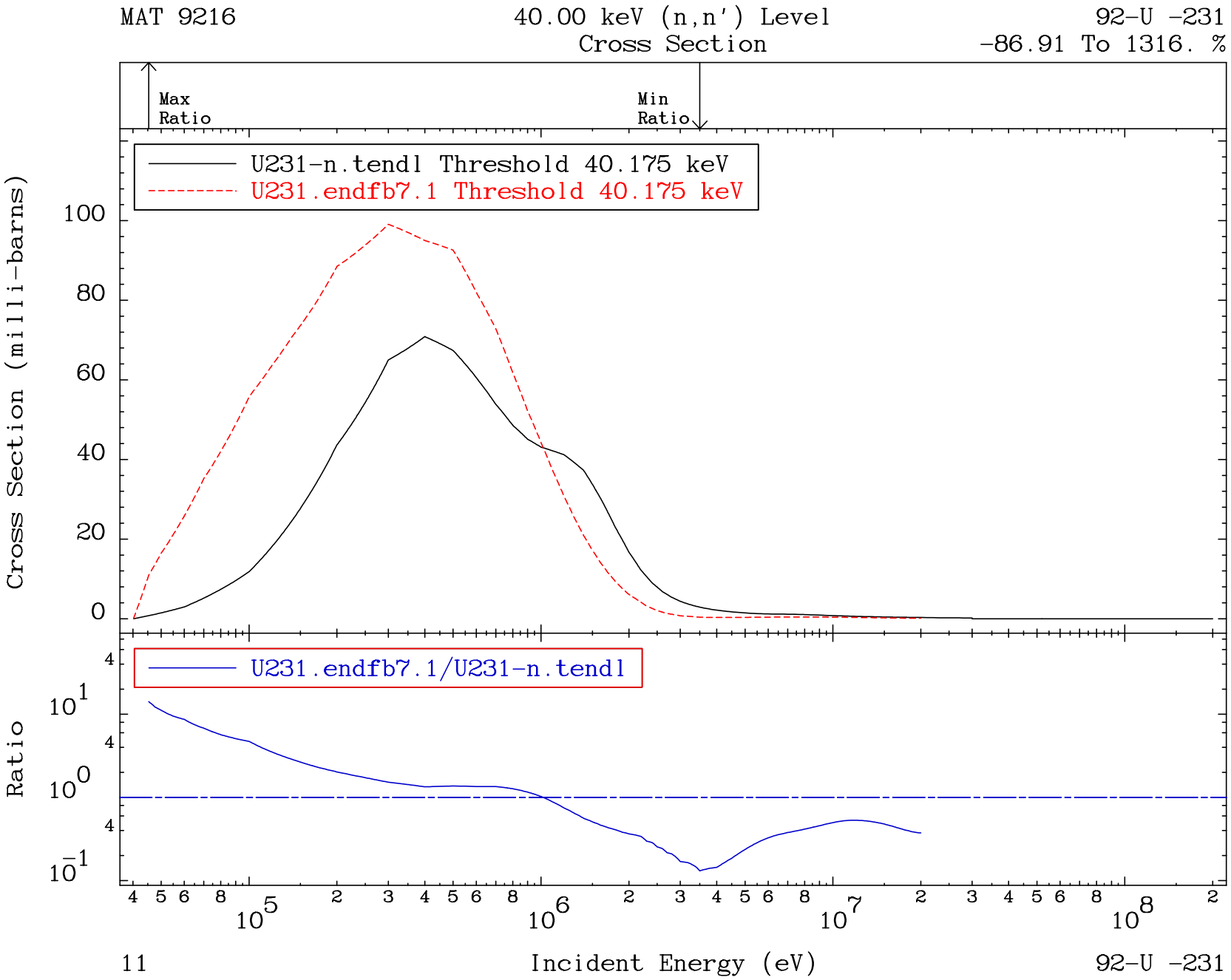

MAT 9216
Fission
Cross Section
92-U -231
-44.55 To 722.1 %
Min Ratio
Max Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
6
92-U -231

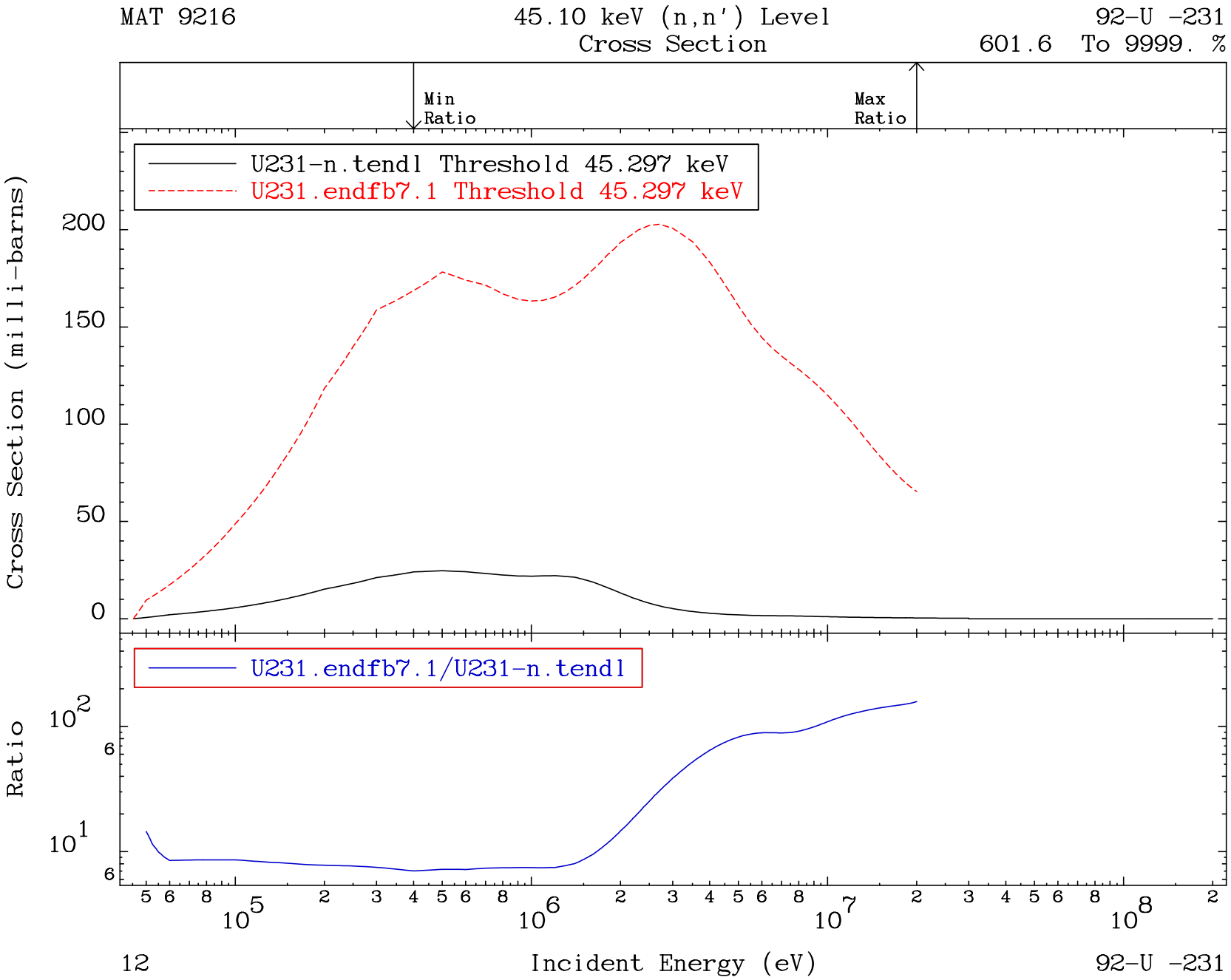

MAT 9216
(n,f) First Chance
Cross Section
92-U -231
-44.55 To 1240. %
Min
Ratio
Max
Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
92-U -231

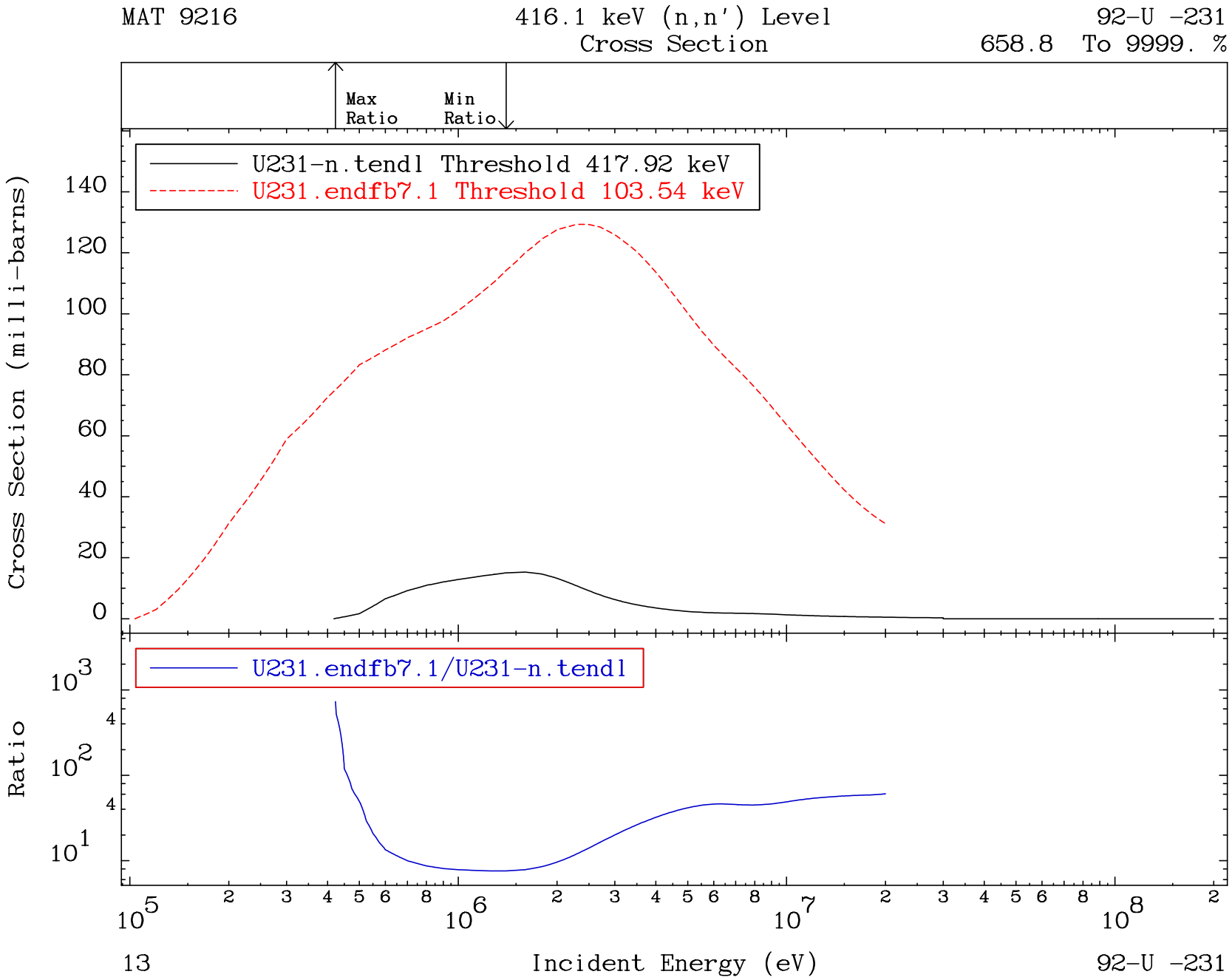

MAT 9216
(n,nf) Second Chance
Cross Section
92-U -231
-100.0 To -5.402%
Min
Ratio
Max
Ratio
U231-n.tendl Threshold 1.8000 MeV
U231.endfb7.1 Threshold 2.0000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
U231.endfb7.1/U231-n.tendl
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
8
Incident Energy (eV)
92-U -231

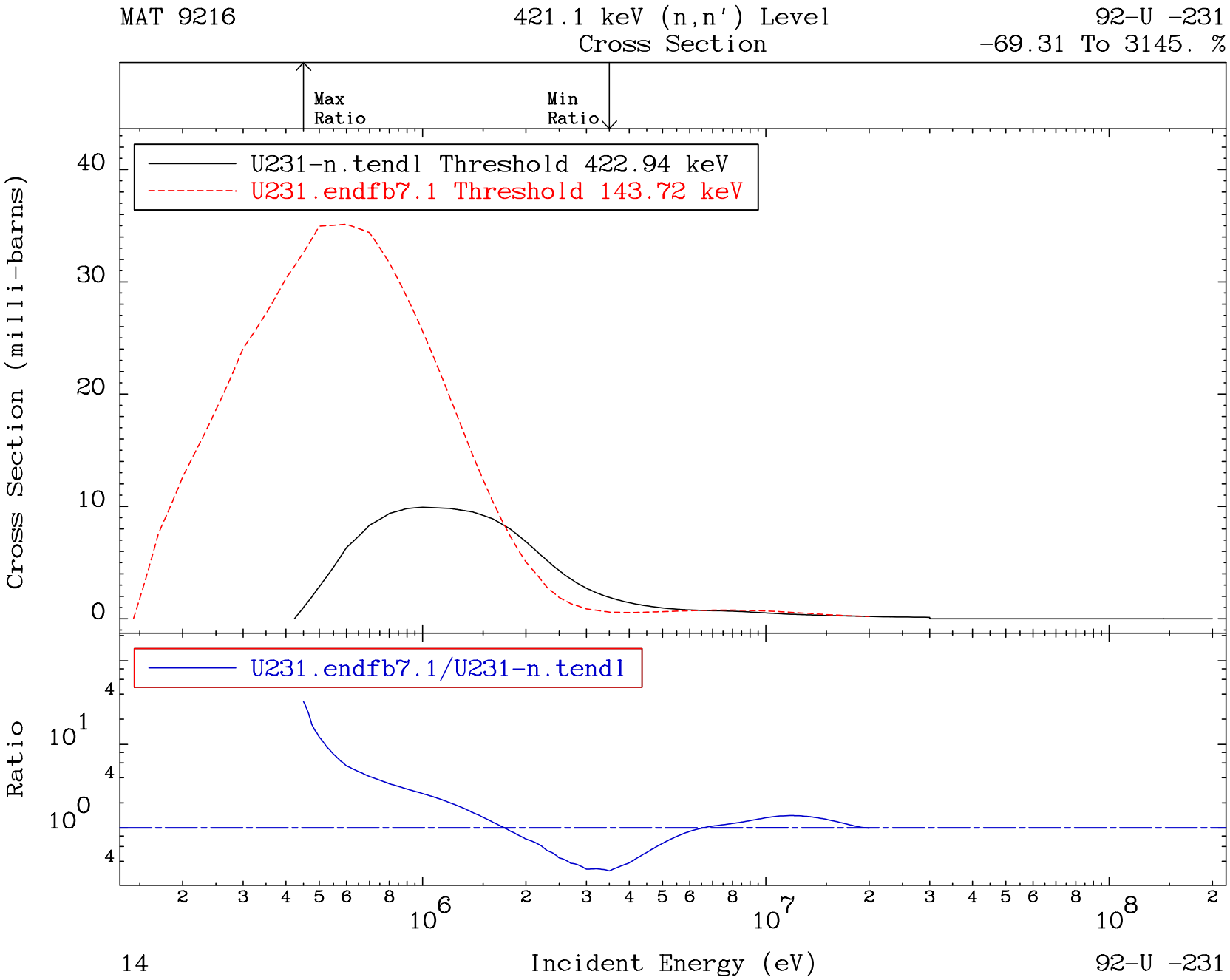

MAT 9216
(n,2nf) Third Chance
Cross Section
92-U -231
-100.0 To -79.16%
Min
Ratio
Max
Ratio
U231-n.tendl Threshold 6.8000 MeV
U231.endfb7.1 Threshold 7.5000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
U231.endfb7.1/U231-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
92-U -231

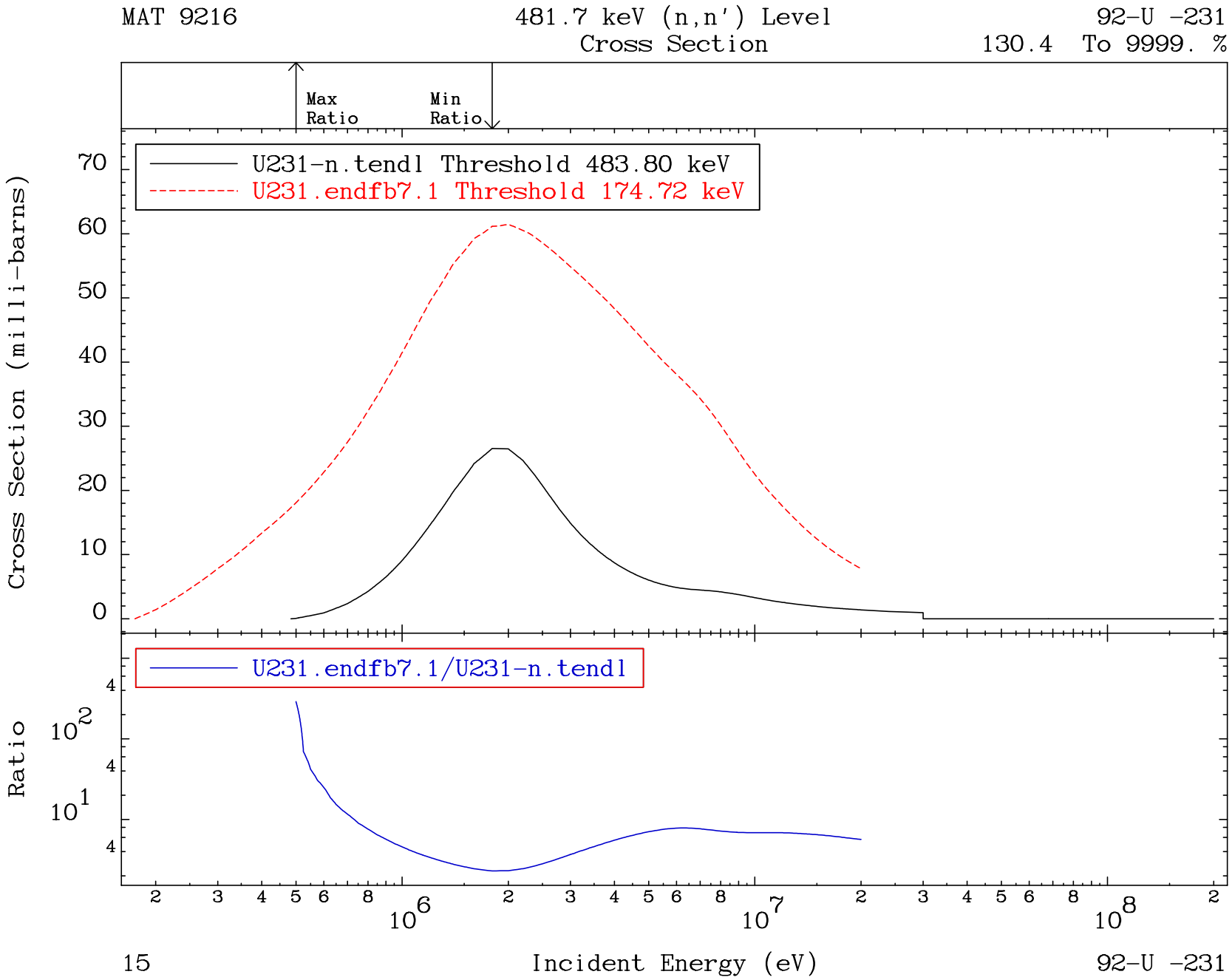

MAT 9216
(n,3nf) Fourth Chance
Cross Section
92-U -231
-89.90 To 9999. %
Max Ratio
Min Ratio
U231-n.tendl Threshold 18.000 MeV
U231.endfb7.1 Threshold 16.000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
U231.endfb7.1/U231-n.tendl
Ratio
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
92-U -231

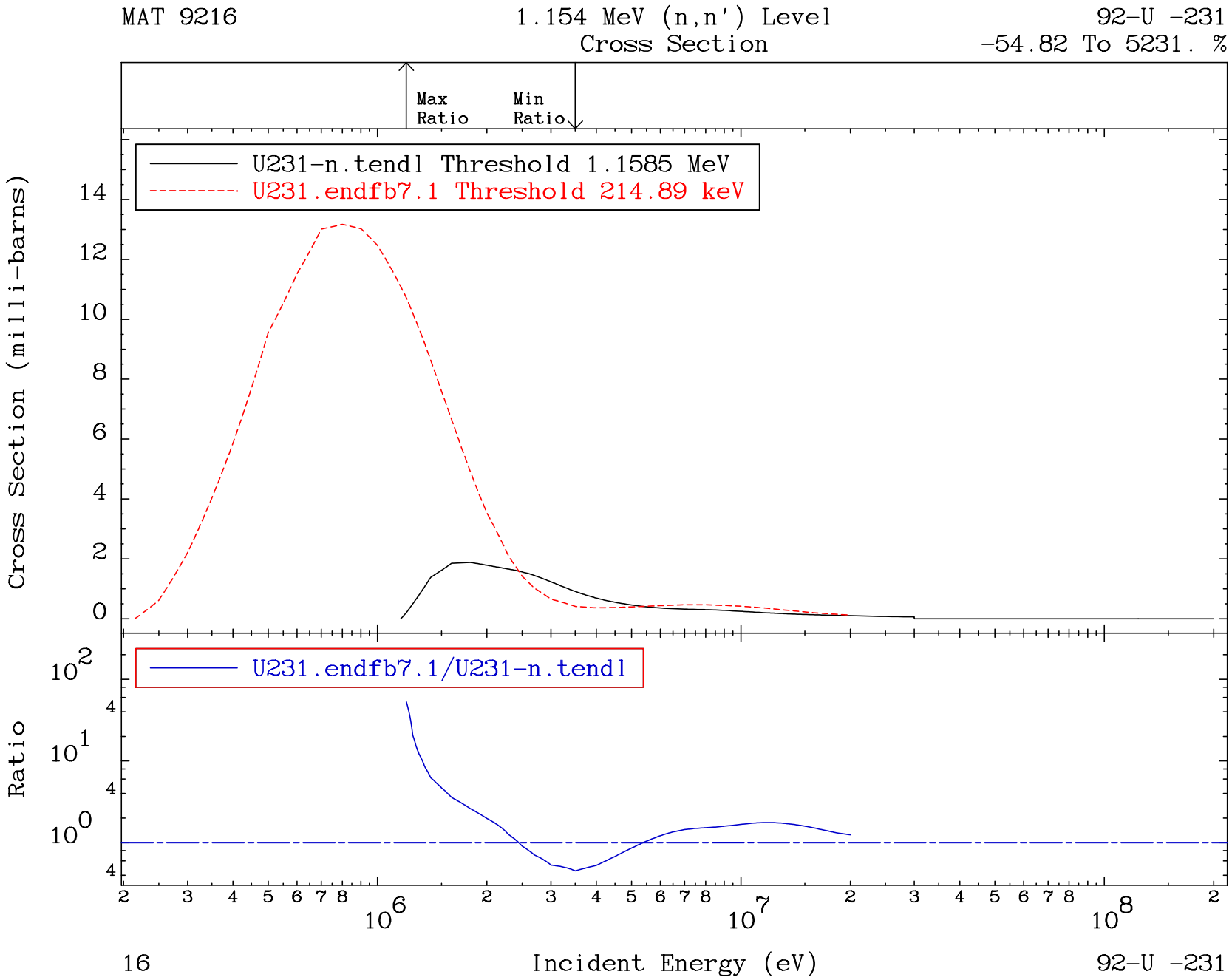

MAT 9216
40.00 keV (n,n') Level
Cross Section
92-U -231
-86.91 To 1316. %
Max Ratio
Min Ratio
U231-n.tendl Threshold 40.175 keV
U231.endfb7.1 Threshold 40.175 keV
Cross Section (milli-barns)
100
80
60
40
20
0
U231.endfb7.1/U231-n.tendl
Ratio
10^{1}
10^{0}
10^{-1}
4 5 6 8 10^{5} 2 3 4 5 6 8 10^{6} 2 3 4 5 6 8 10^{7} 2 3 4 5 6 8 10^{8} 2
11
Incident Energy (eV)
92-U -231

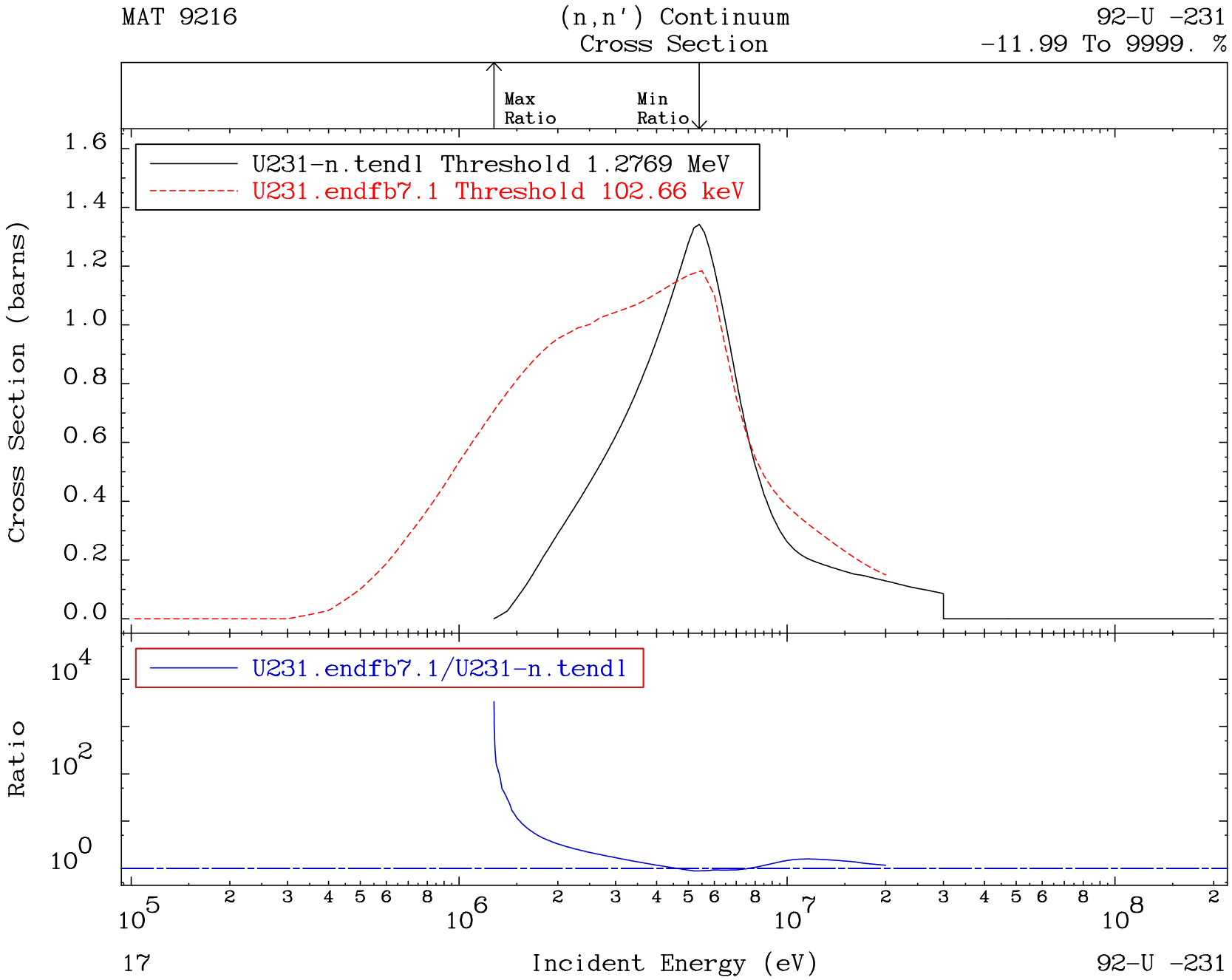

MAT 9216
45.10 keV (n,n') Level
Cross Section
92-U -231
601.6 To 9999. %
Min
Ratio
Max
Ratio
U231-n.tendl Threshold 45.297 keV
U231.endfb7.1 Threshold 45.297 keV
Cross Section (milli-barns)
200
150
100
50
0
U231.endfb7.1/U231-n.tendl
Ratio
10^2
6
10^1
6
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
92-U -231

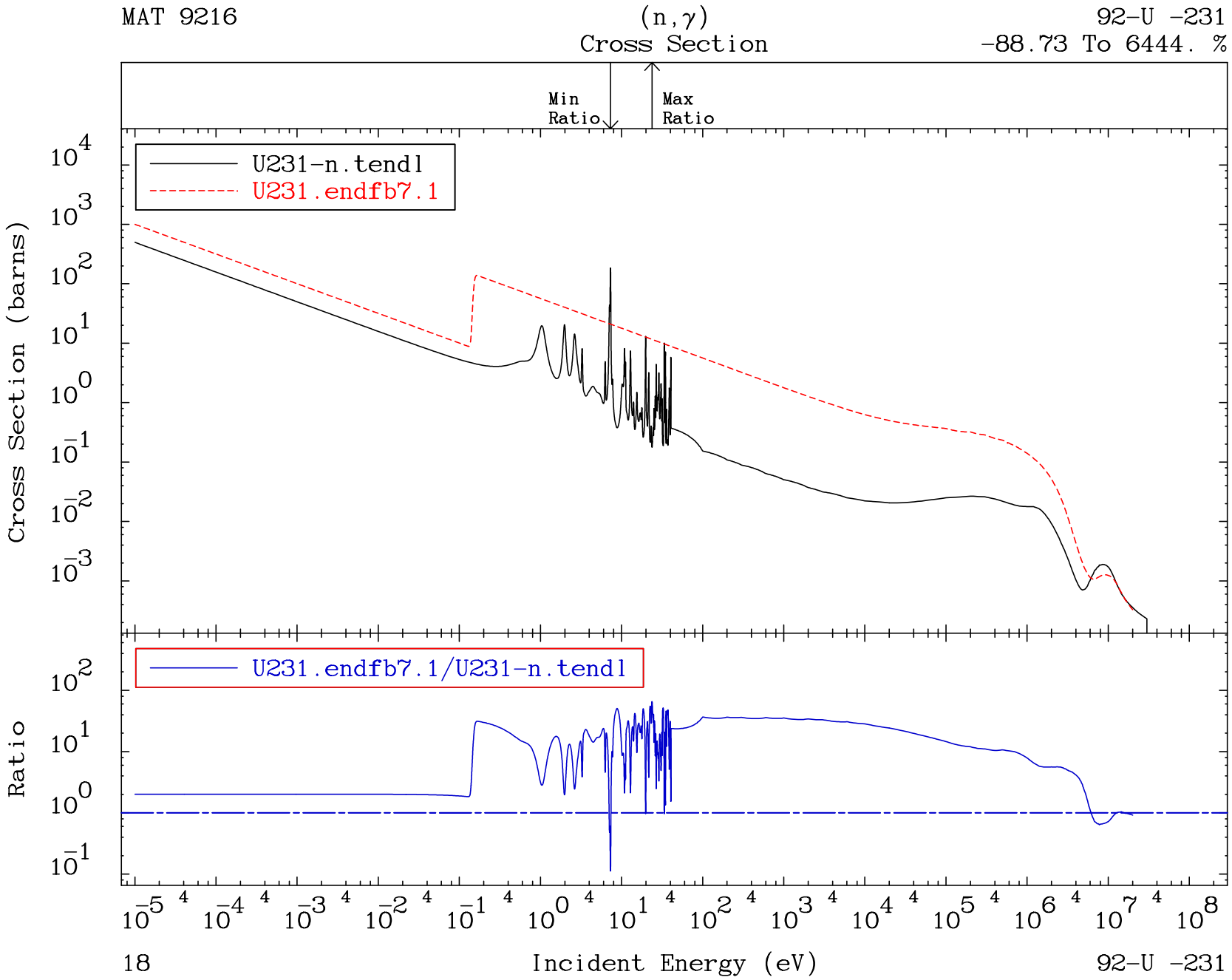

MAT 9216
416.1 keV (n,n') Level
Cross Section
92-U -231
658.8 To 9999. %
Max Ratio
Min Ratio
U231-n.tendl Threshold 417.92 keV
U231.endfb7.1 Threshold 103.54 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
U231.endfb7.1/U231-n.tendl
Ratio
10^3
10^2
10^1
10^5
10^6
10^7
10^8
Incident Energy (eV)
13
92-U -231

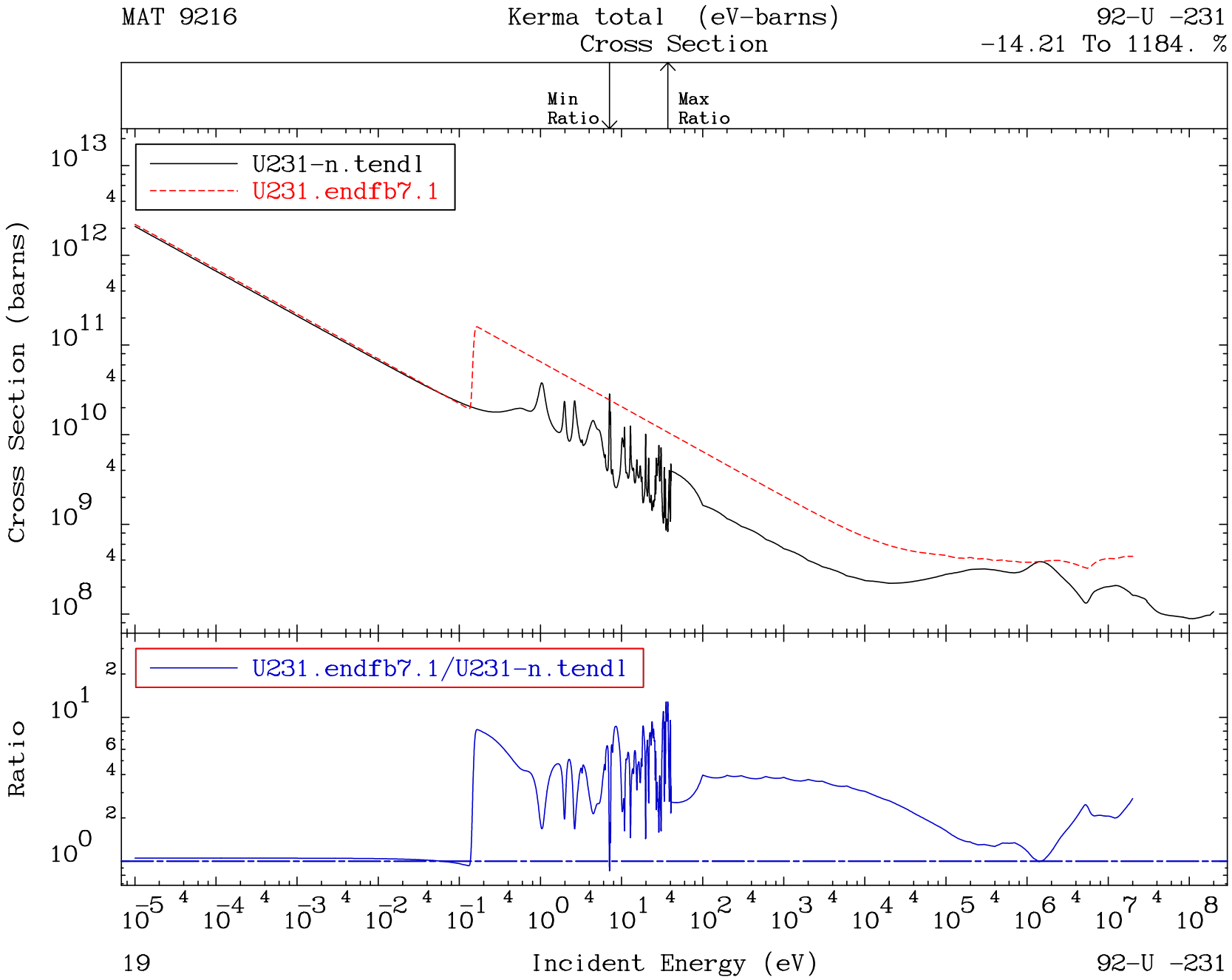

MAT 9216
421.1 keV (n,n') Level
Cross Section
92-U -231
-69.31 To 3145. %
Max
Ratio
Min
Ratio
U231-n.tendl Threshold 422.94 keV
U231.endfb7.1 Threshold 143.72 keV
Cross Section (milli-barns)
40
30
20
10
0
U231.endfb7.1/U231-n.tendl
Ratio
10^1
10^0
4
4
4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
92-U -231

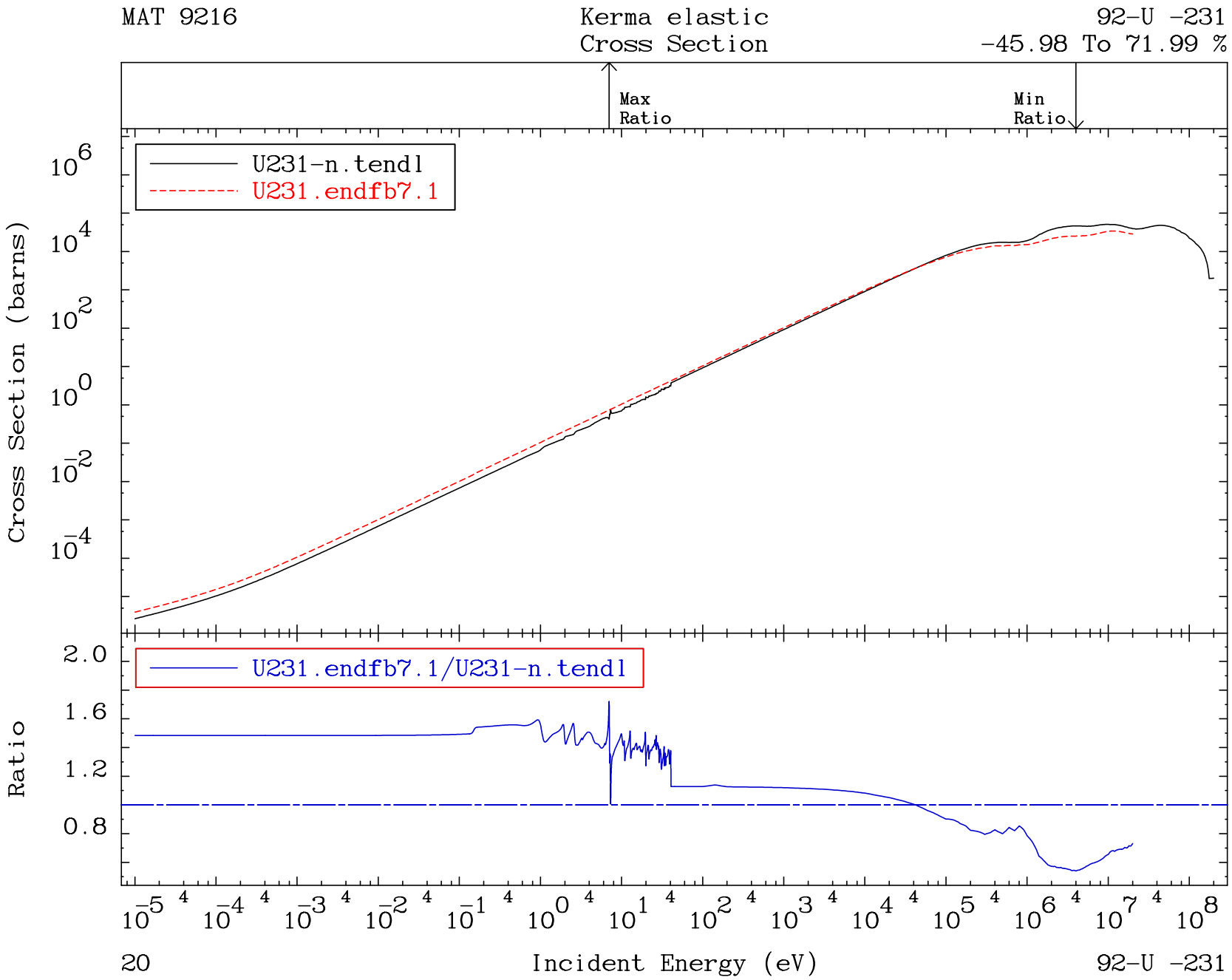

MAT 9216
481.7 keV (n,n') Level
Cross Section
92-U -231
130.4 To 9999. %
Max Ratio
Min Ratio
U231-n.tendl Threshold 483.80 keV
U231.endfb7.1 Threshold 174.72 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
U231.endfb7.1/U231-n.tendl
Ratio
10^2
10^1
4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
92-U -231

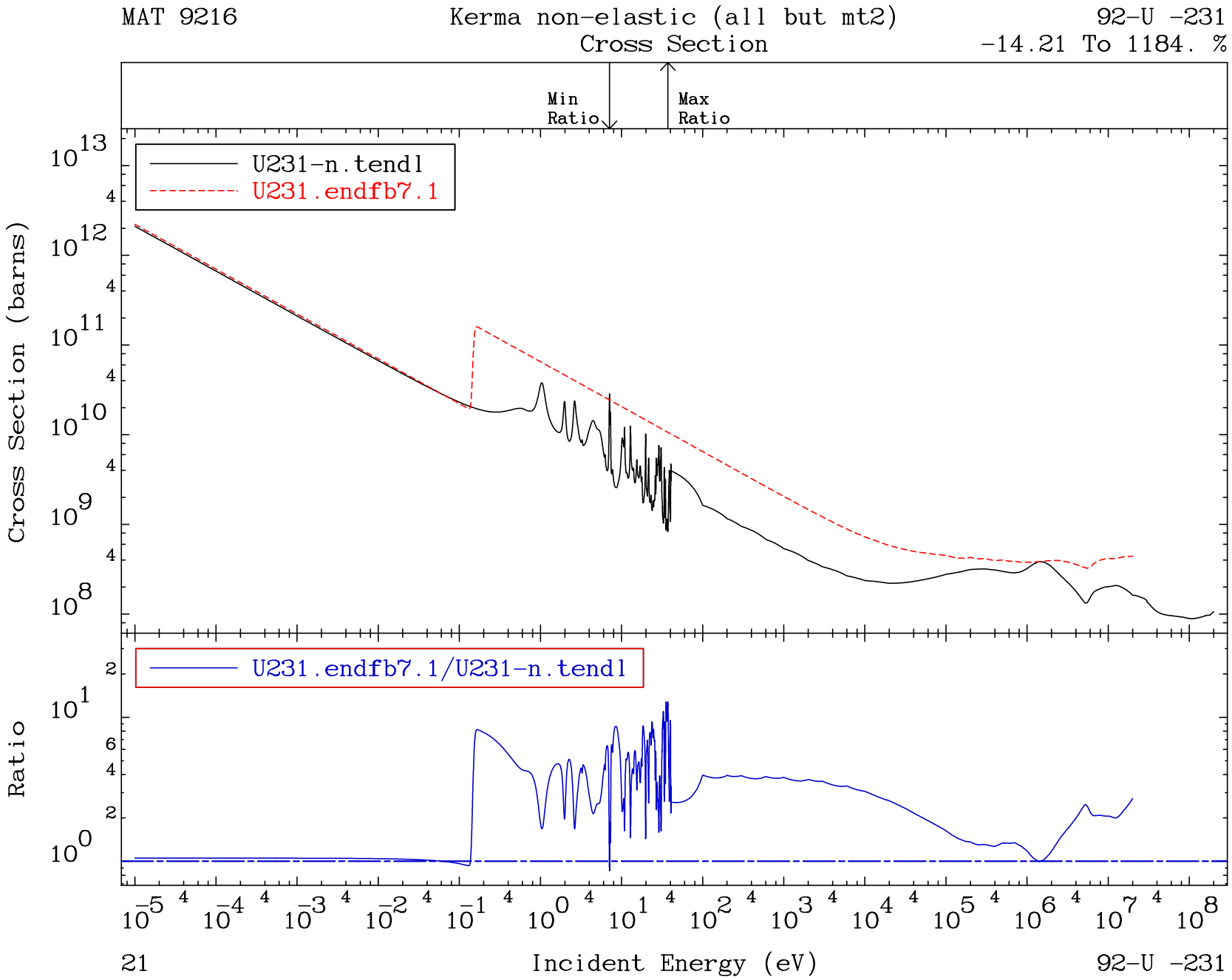

MAT 9216
1.154 MeV (n,n') Level
Cross Section
92-U -231
-54.82 To 5231. %
Max Ratio
Min Ratio
U231-n.tendl Threshold 1.1585 MeV
U231.endfb7.1 Threshold 214.89 keV
Cross Section (milli-barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
16
92-U -231

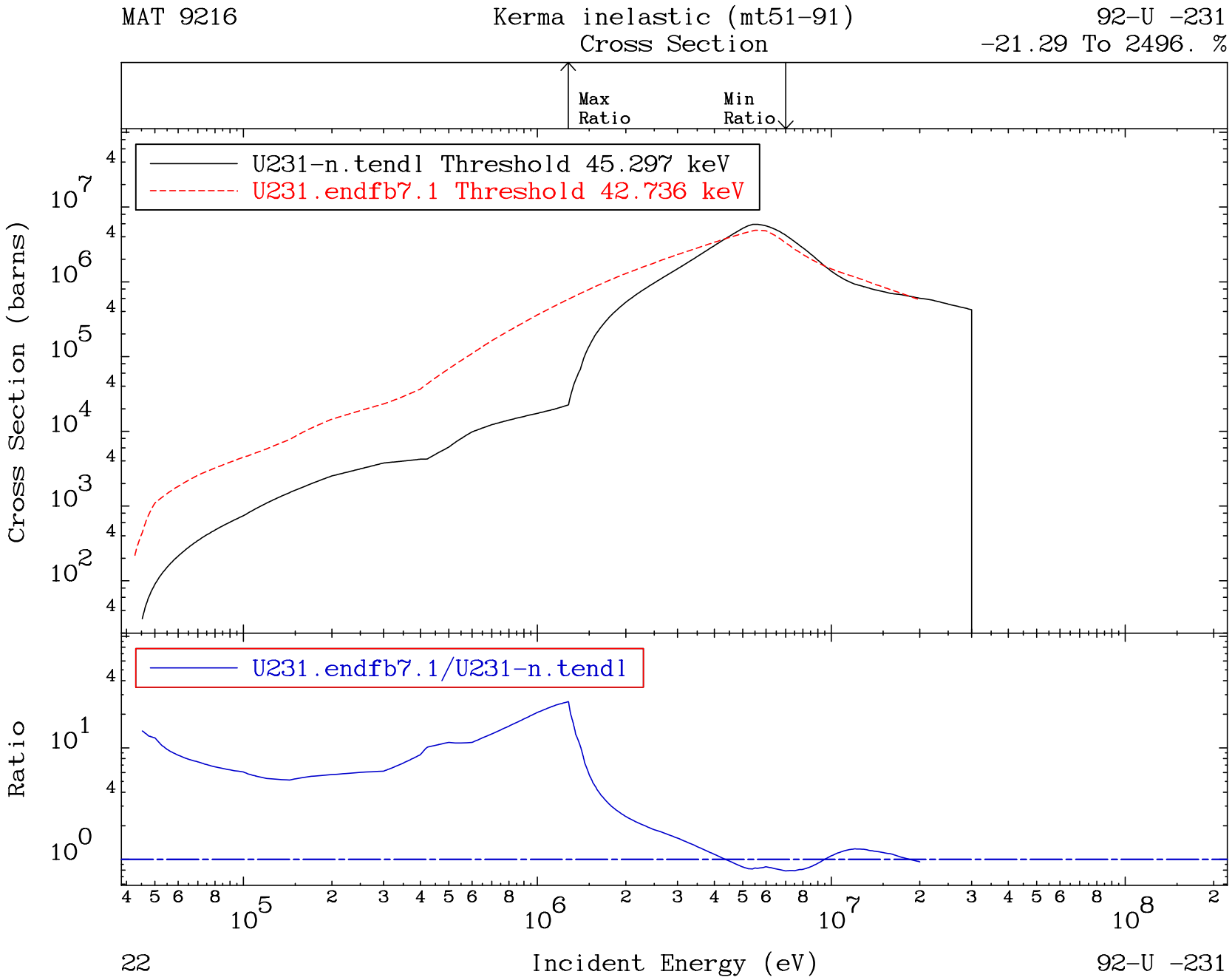

MAT 9216
(n,n') Continuum
Cross Section
92-U -231
-11.99 To 9999. %
Max
Ratio
Min
Ratio
U231-n.tendl Threshold 1.2769 MeV
U231.endfb7.1 Threshold 102.66 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
U231.endfb7.1/U231-n.tendl
Ratio
10^4
10^2
10^0
10^5
2 3 4 5 6 8
10^6
2 3 4 5 6 8
10^7
2 3 4 5 6 8
10^8
2
17
Incident Energy (eV)
92-U -231

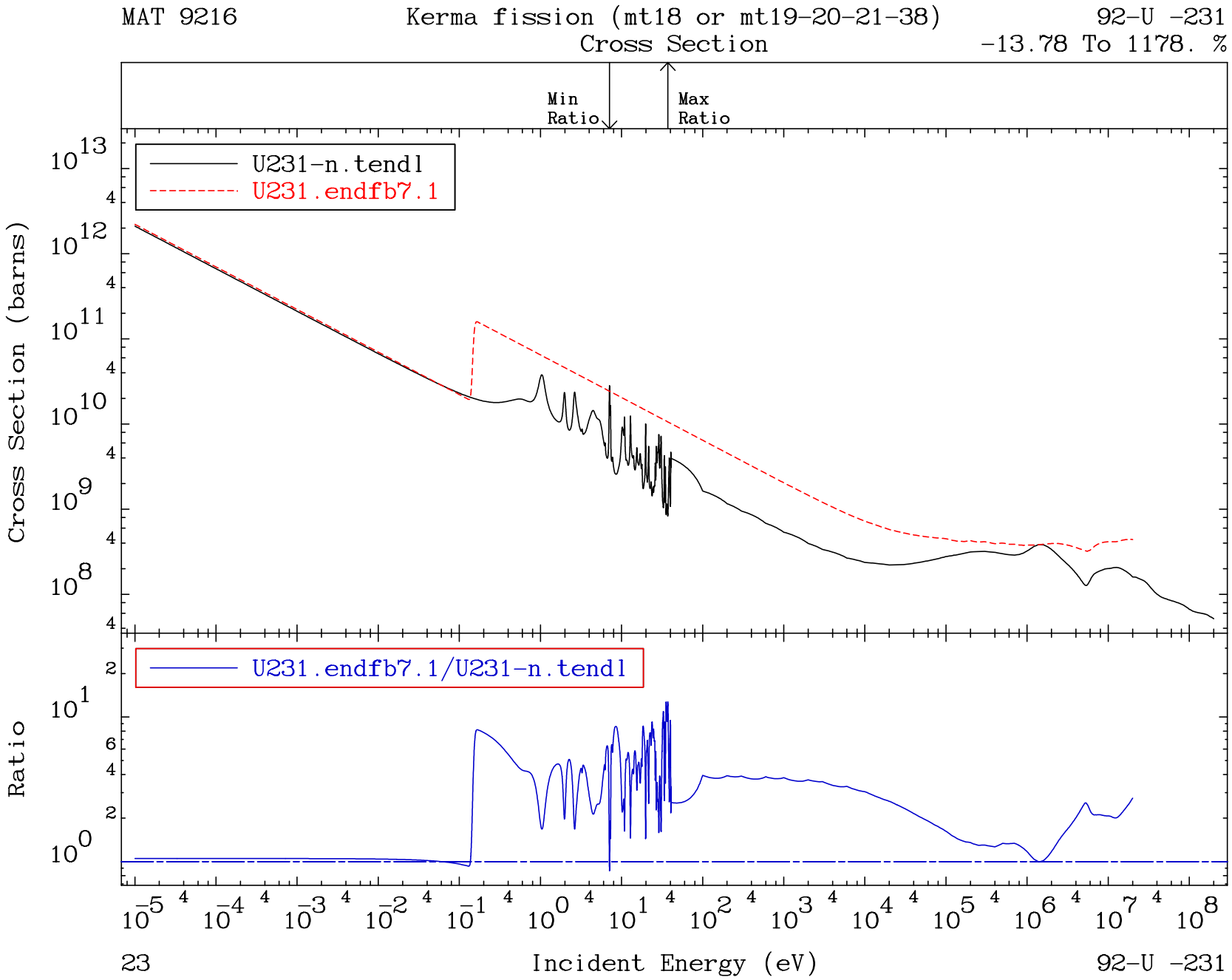

MAT 9216
(n,γ)
Cross Section
92-U -231
-88.73 To 6444. %
Min Ratio
Max Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
18
92-U -231

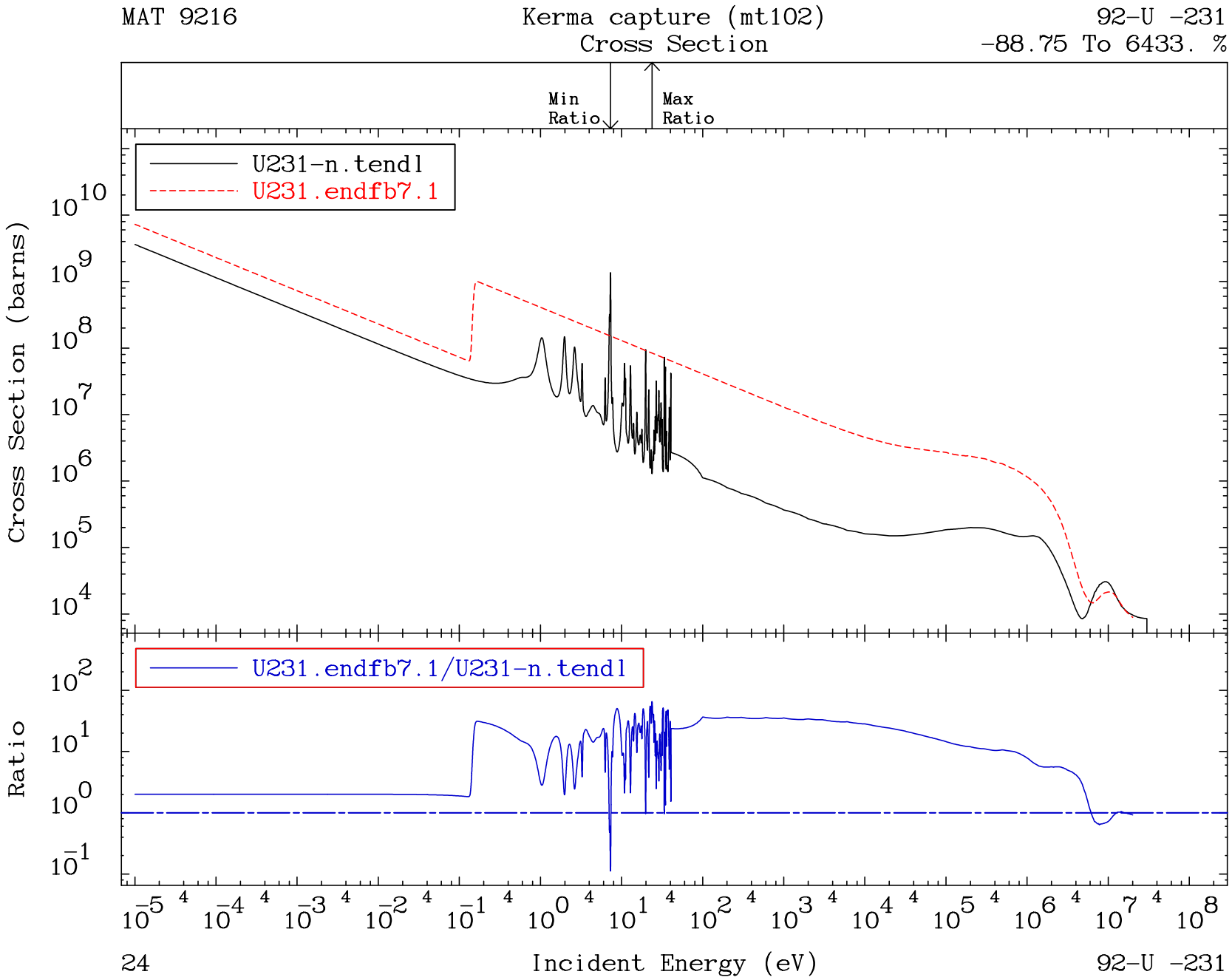

MAT 9216
Kerma total (eV-barns)
Cross Section
92-U -231
-14.21 To 1184. %
Min Ratio
Max Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
19
92-U -231

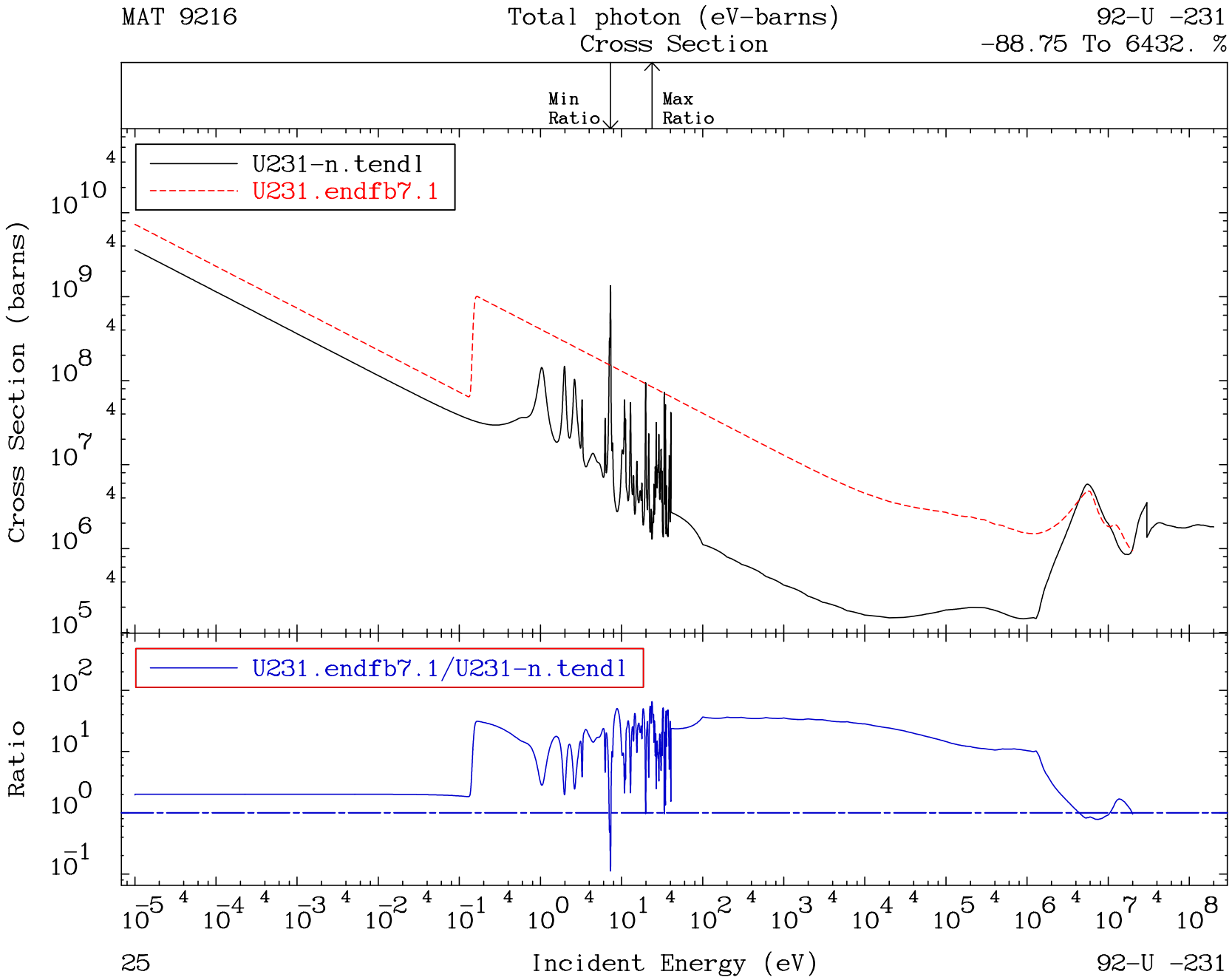

MAT 9216
Kerma elastic
Cross Section
92-U -231
-45.98 To 71.99 %
Max
Ratio
Min
Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
20
92-U -231

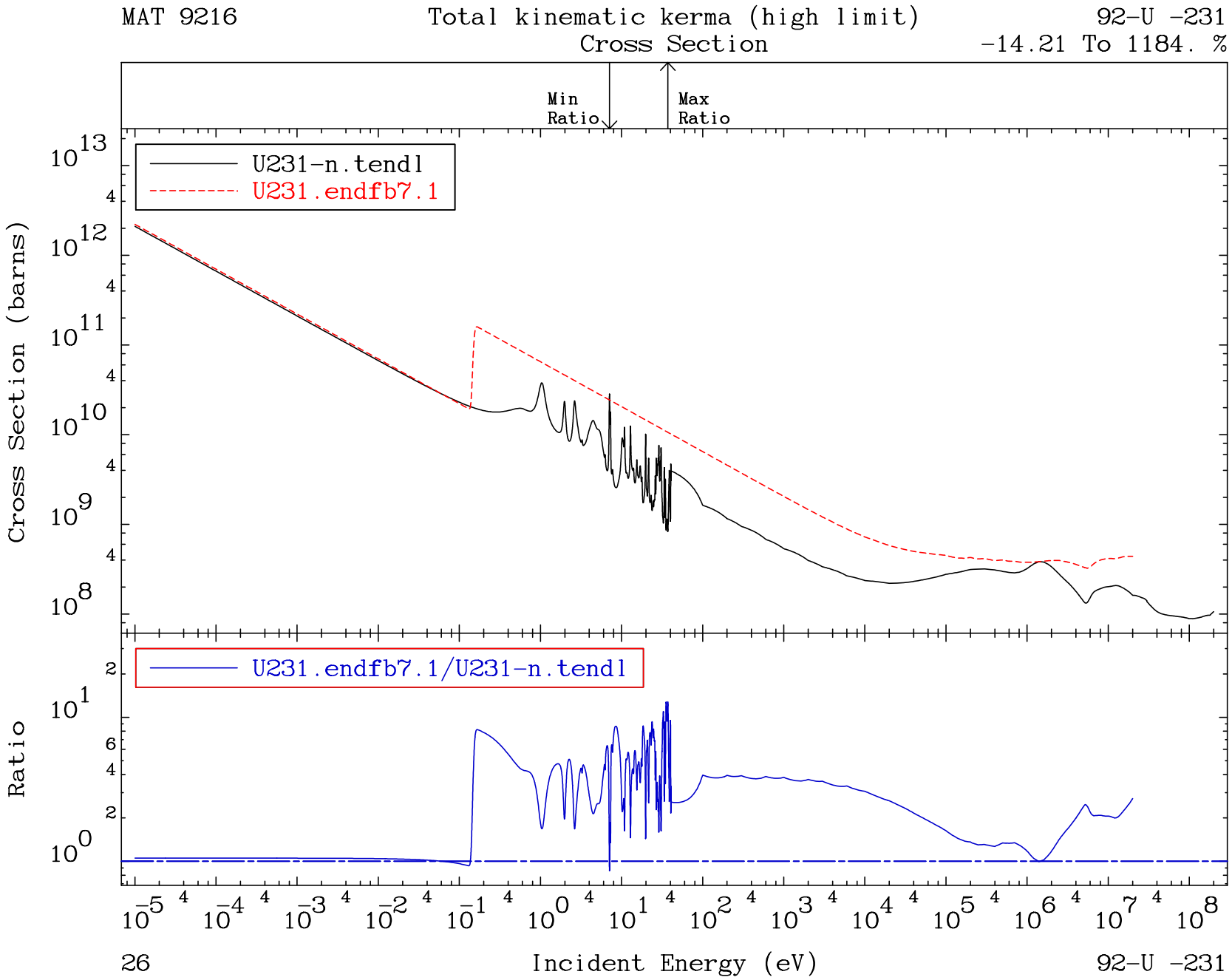

MAT 9216
Kerma non-elastic (all but mt2)
Cross Section
92-U -231
-14.21 To 1184. %
Min Ratio
Max Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
21
92-U -231

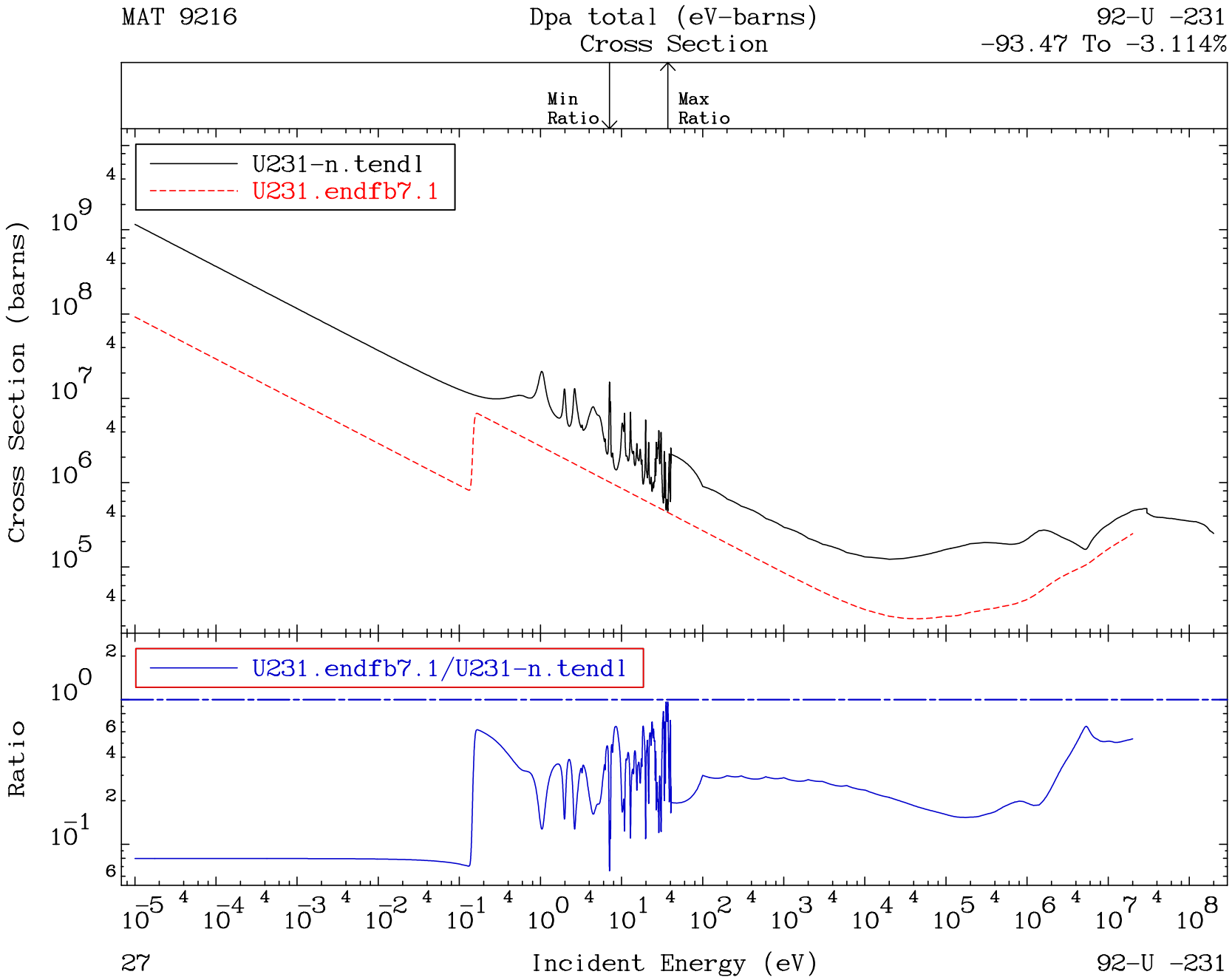

MAT 9216
Kerma inelastic (mt51-91)
Cross Section
92-U -231
-21.29 To 2496. %
Max Ratio
Min Ratio
U231-n.tendl Threshold 45.297 keV
U231.endfb7.1 Threshold 42.736 keV
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
22
92-U -231

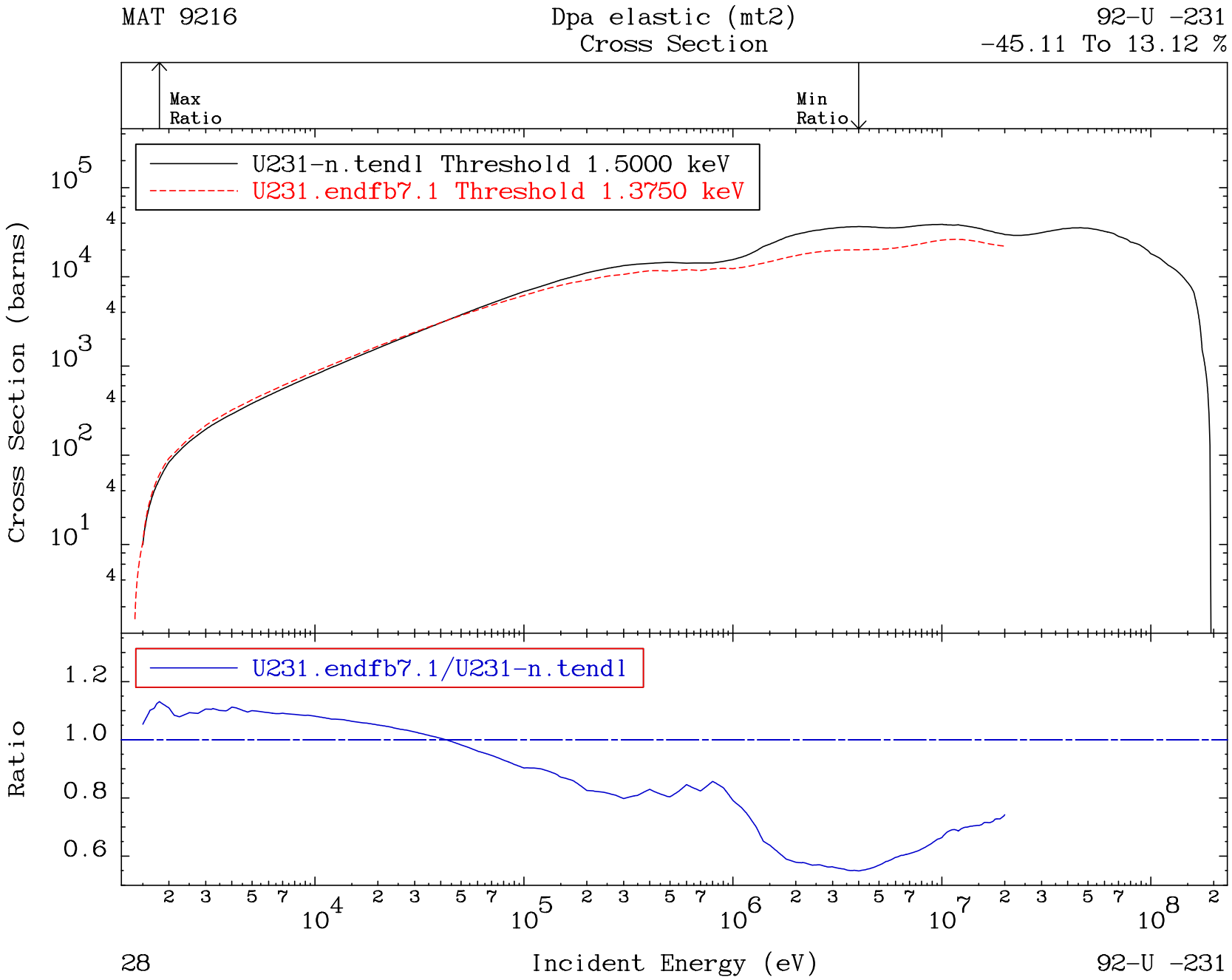

MAT 9216
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
92-U -231
-13.78 To 1178. %
Min Ratio
Max Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
23
92-U -231

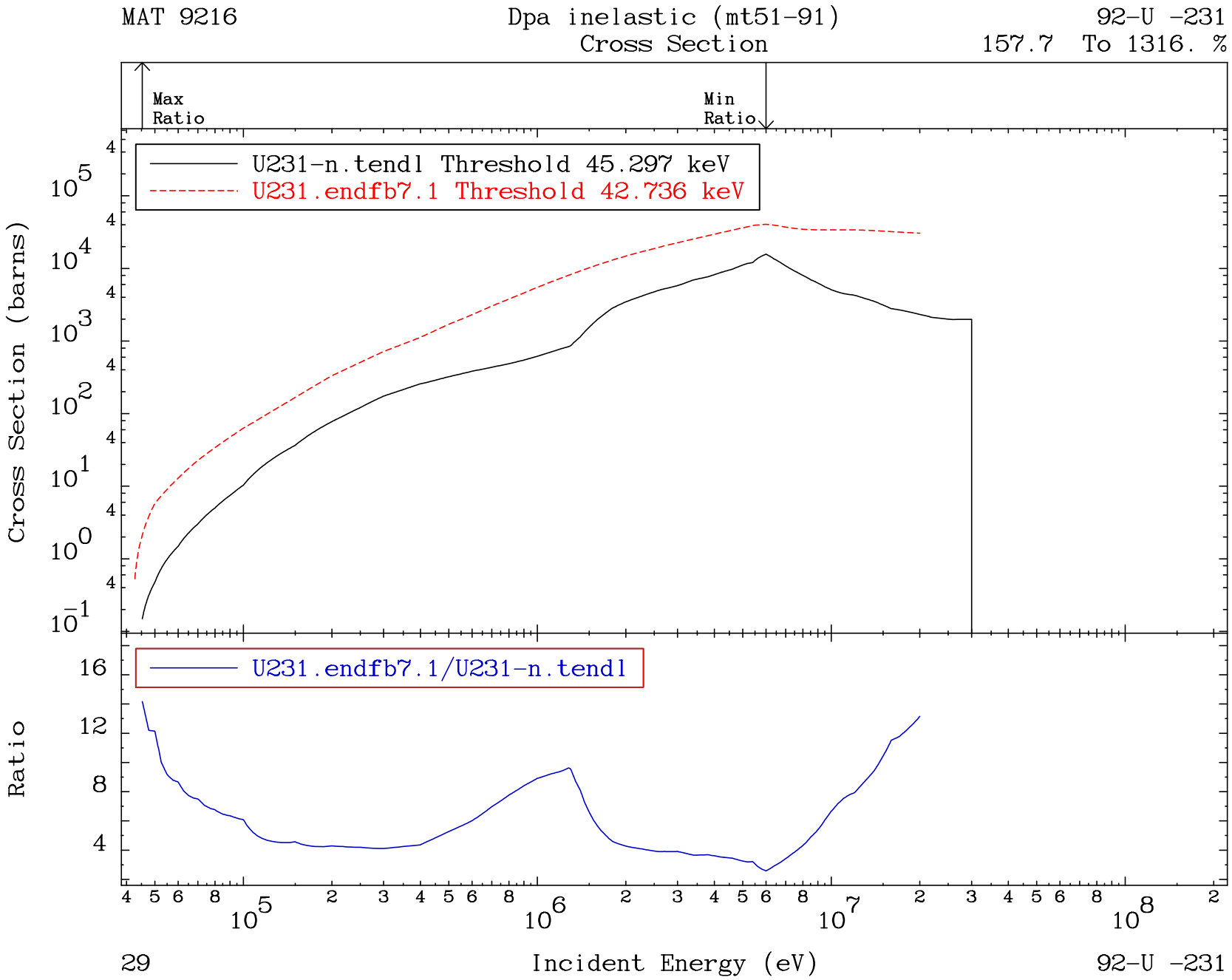

MAT 9216
Kerma capture (mt102)
Cross Section
92-U -231
-88.75 To 6433. %
Min Ratio
Max Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
24
92-U -231

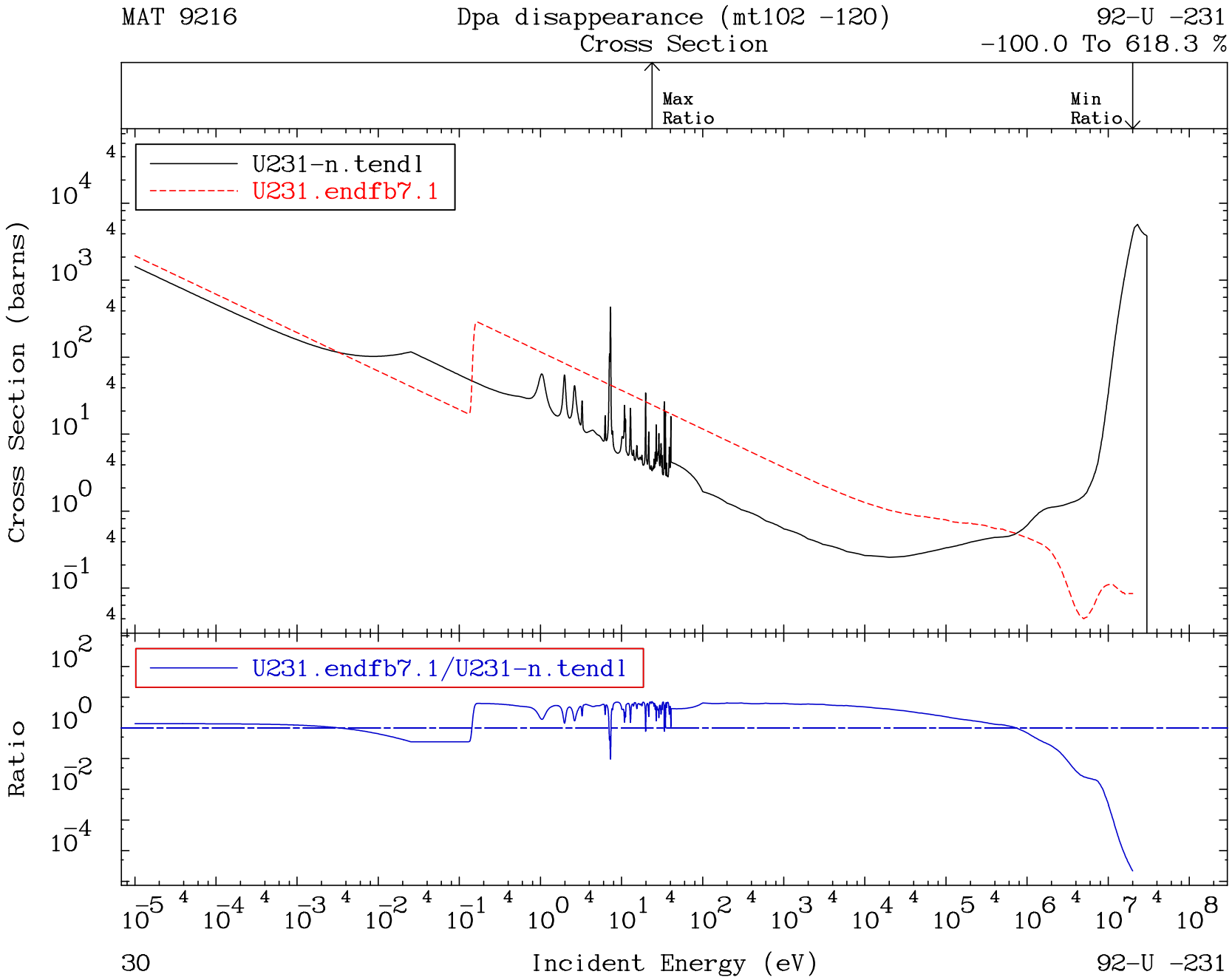

MAT 9216
Total photon (eV-barns)
Cross Section
92-U -231
-88.75 To 6432. %
Min Ratio
Max Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
25
92-U -231


MAT 9216
Total kinematic kerma (high limit)
Cross Section
92-U -231
-14.21 To 1184. %
Min Ratio
Max Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
26
92-U -231


MAT 9216
Dpa total (eV-barns)
Cross Section
92-U -231
-93.47 To -3.114%
Min Ratio
Max Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
27
92-U -231


MAT 9216
Dpa elastic (mt2)
Cross Section
92-U -231
-45.11 To 13.12 %
Max Ratio
Min Ratio
U231-n.tendl Threshold 1.5000 keV
U231.endfb7.1 Threshold 1.3750 keV
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
28
92-U -231


MAT 9216
Dpa inelastic (mt51-91)
Cross Section
92-U -231
157.7 To 1316. %
Max Ratio
Min Ratio
U231-n.tendl Threshold 45.297 keV
U231.endfb7.1 Threshold 42.736 keV
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
29
92-U -231


MAT 9216
Dpa disappearance (mt102 -120)
Cross Section
92-U -231
-100.0 To 618.3 %
Max Ratio
Min Ratio
U231-n.tendl
U231.endfb7.1
Cross Section (barns)
U231.endfb7.1/U231-n.tendl
Ratio
Incident Energy (eV)
30
92-U -231