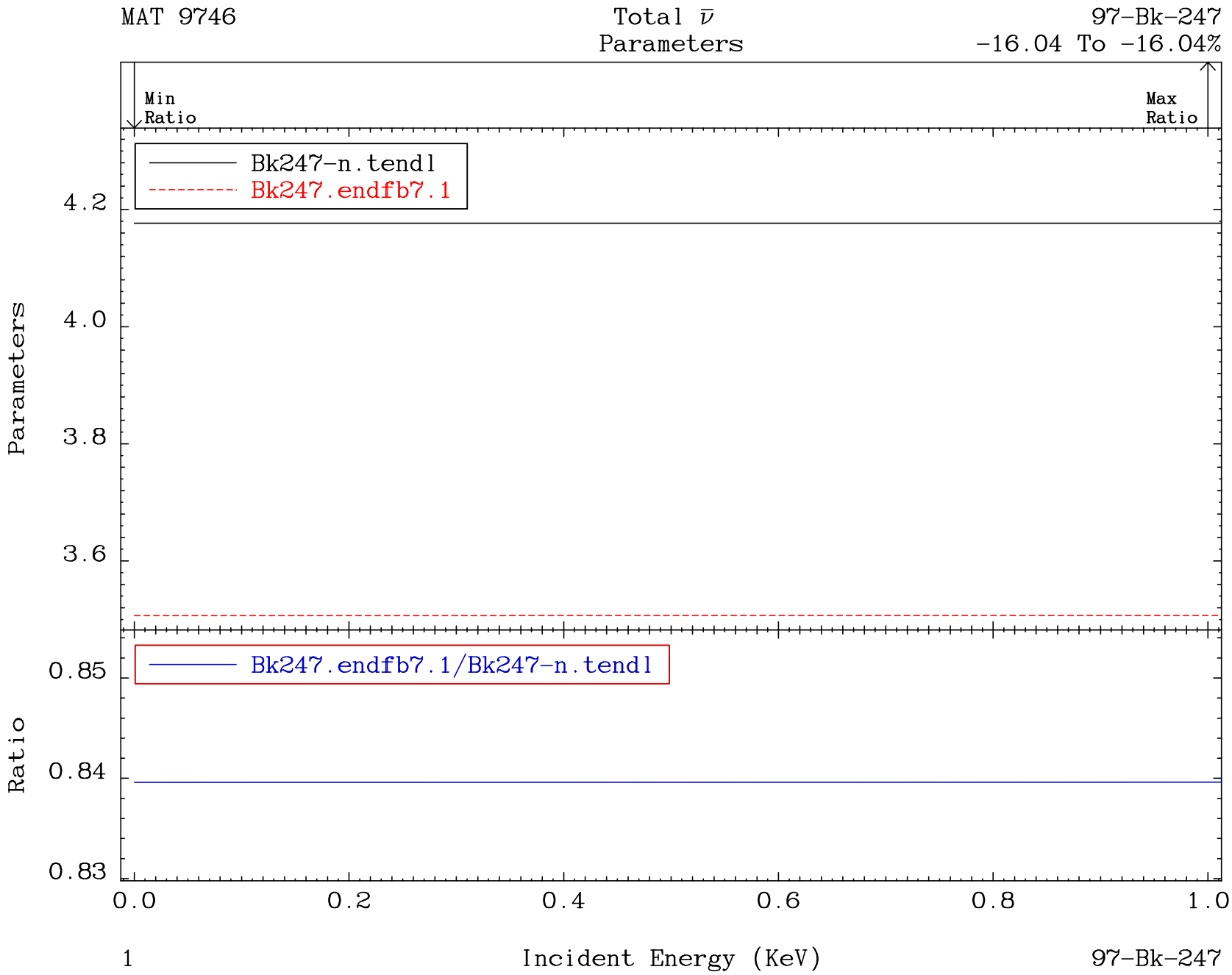
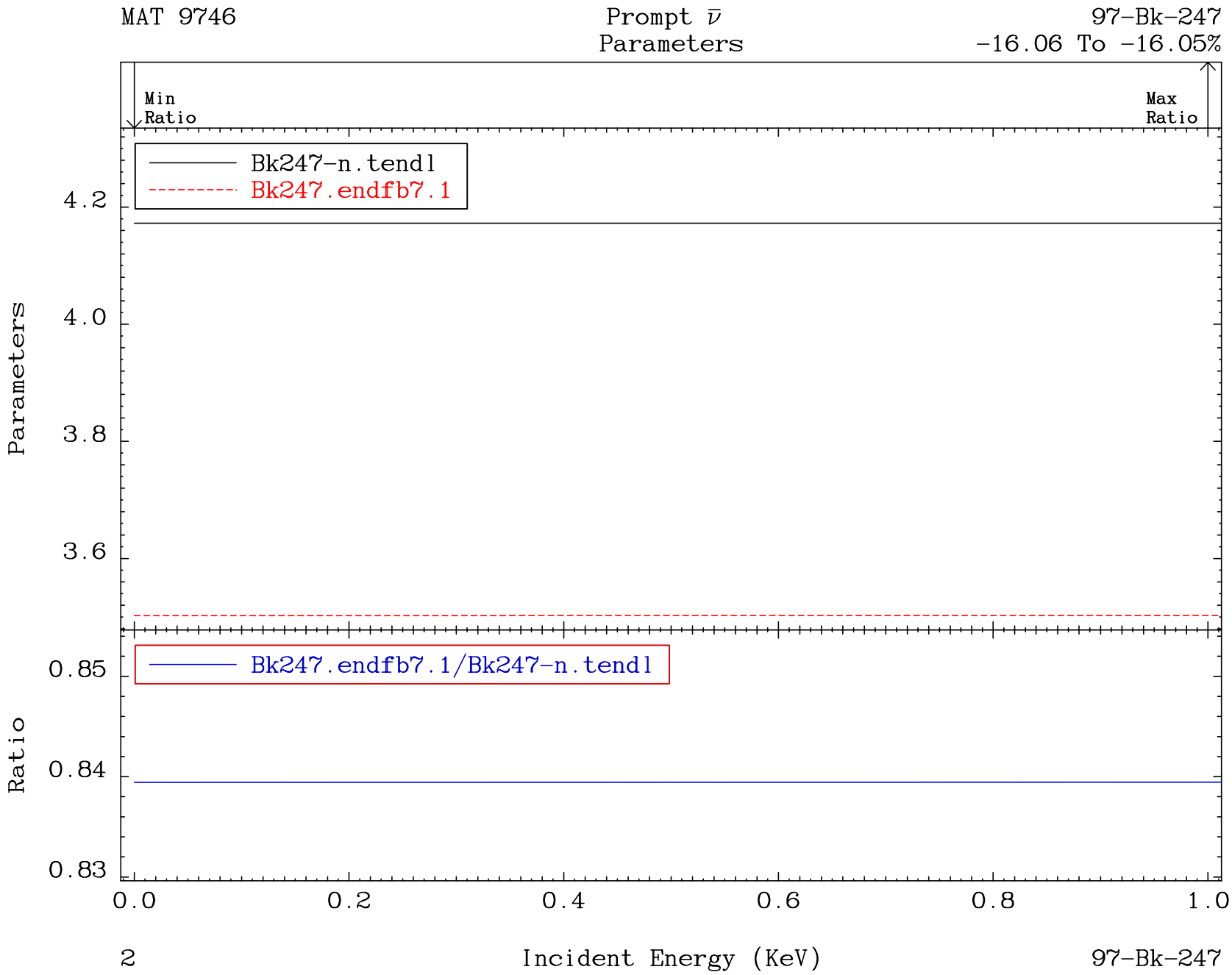
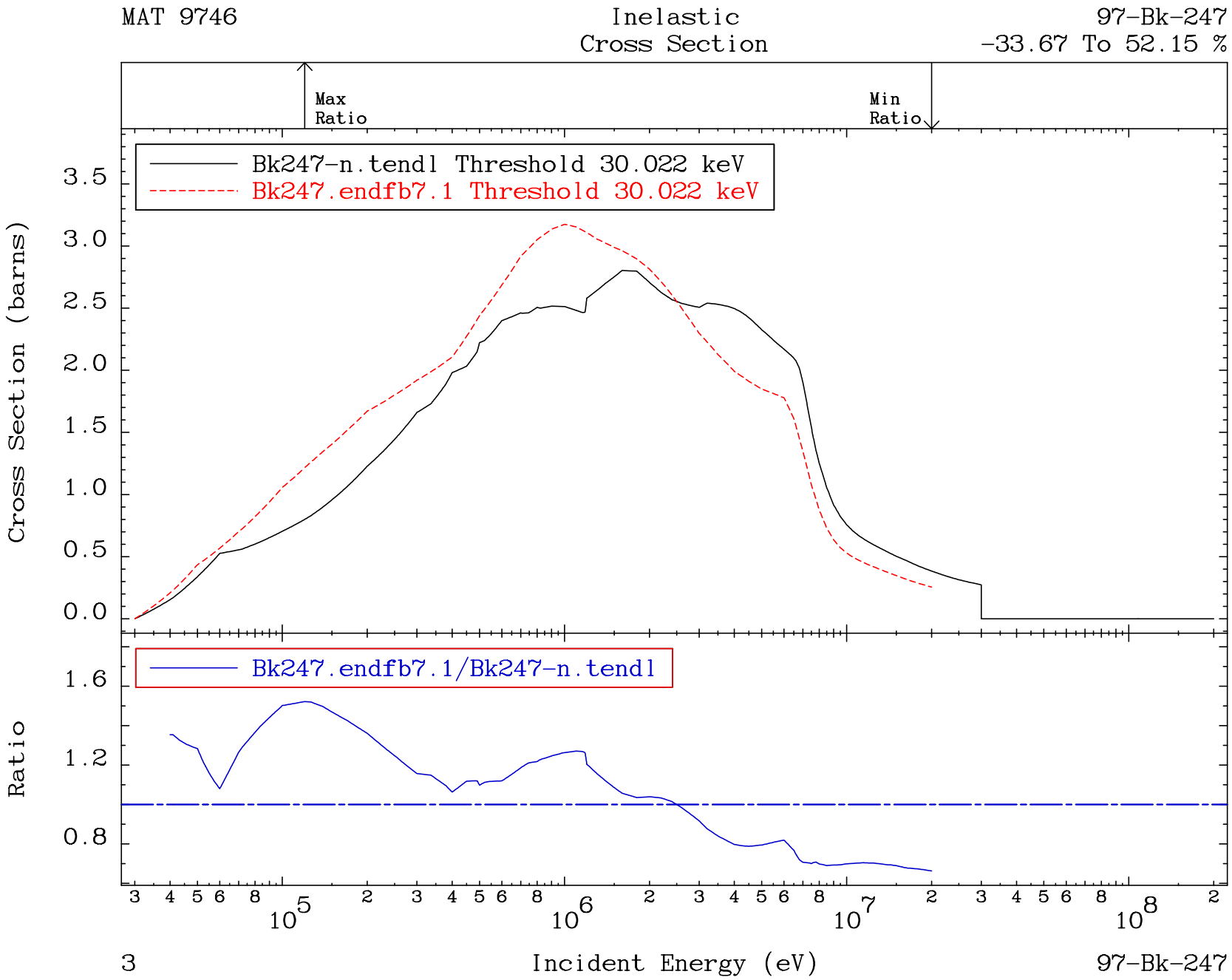
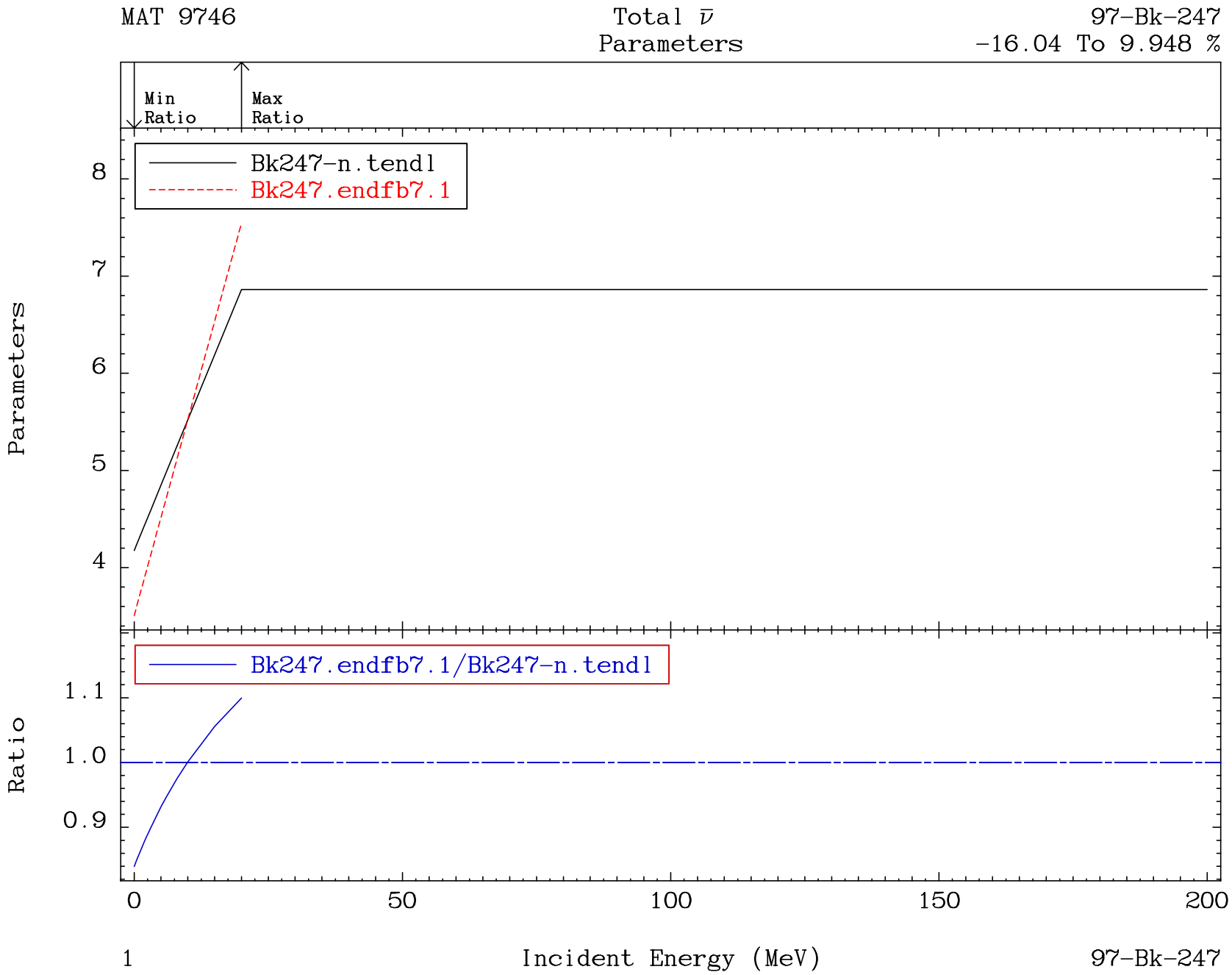
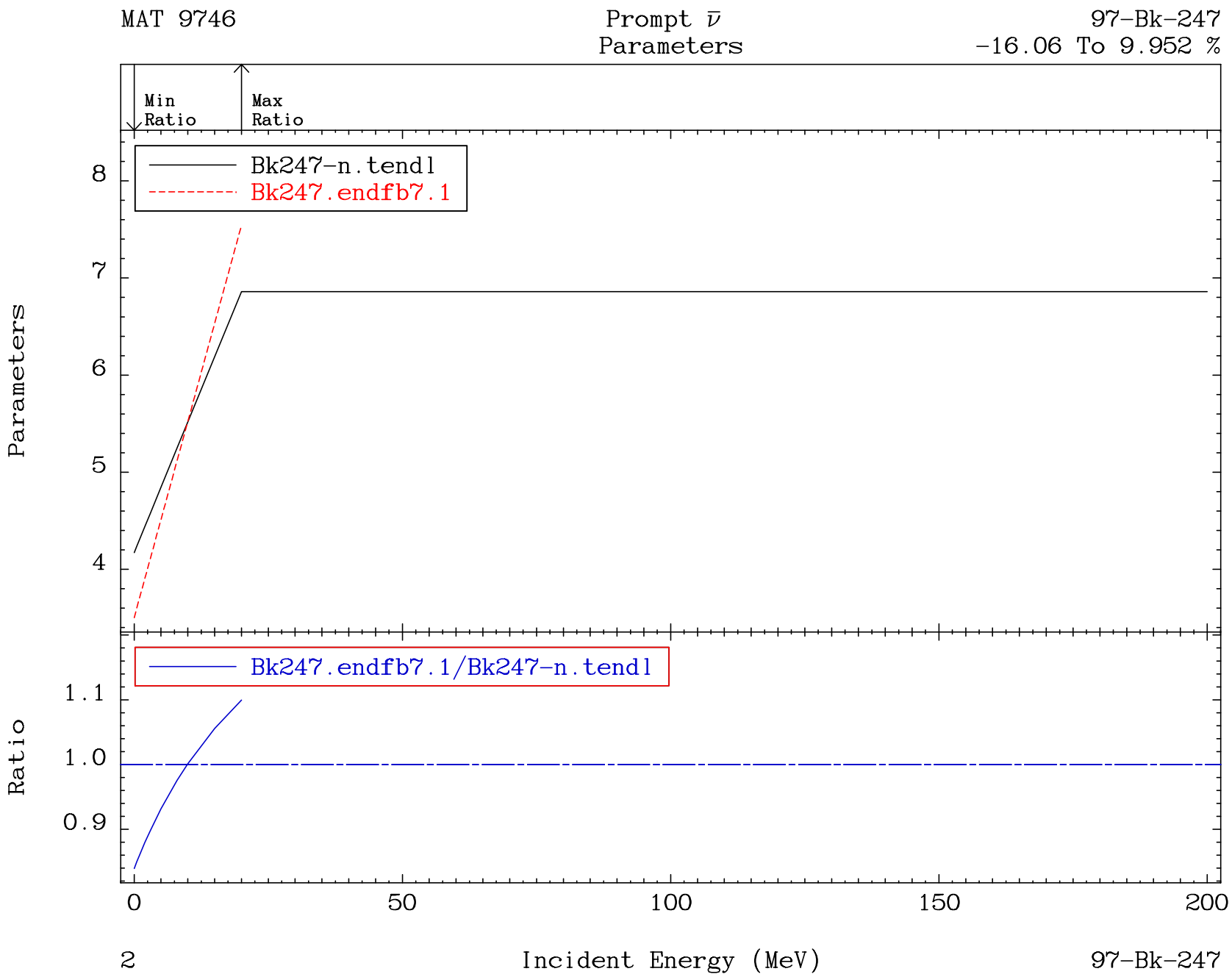
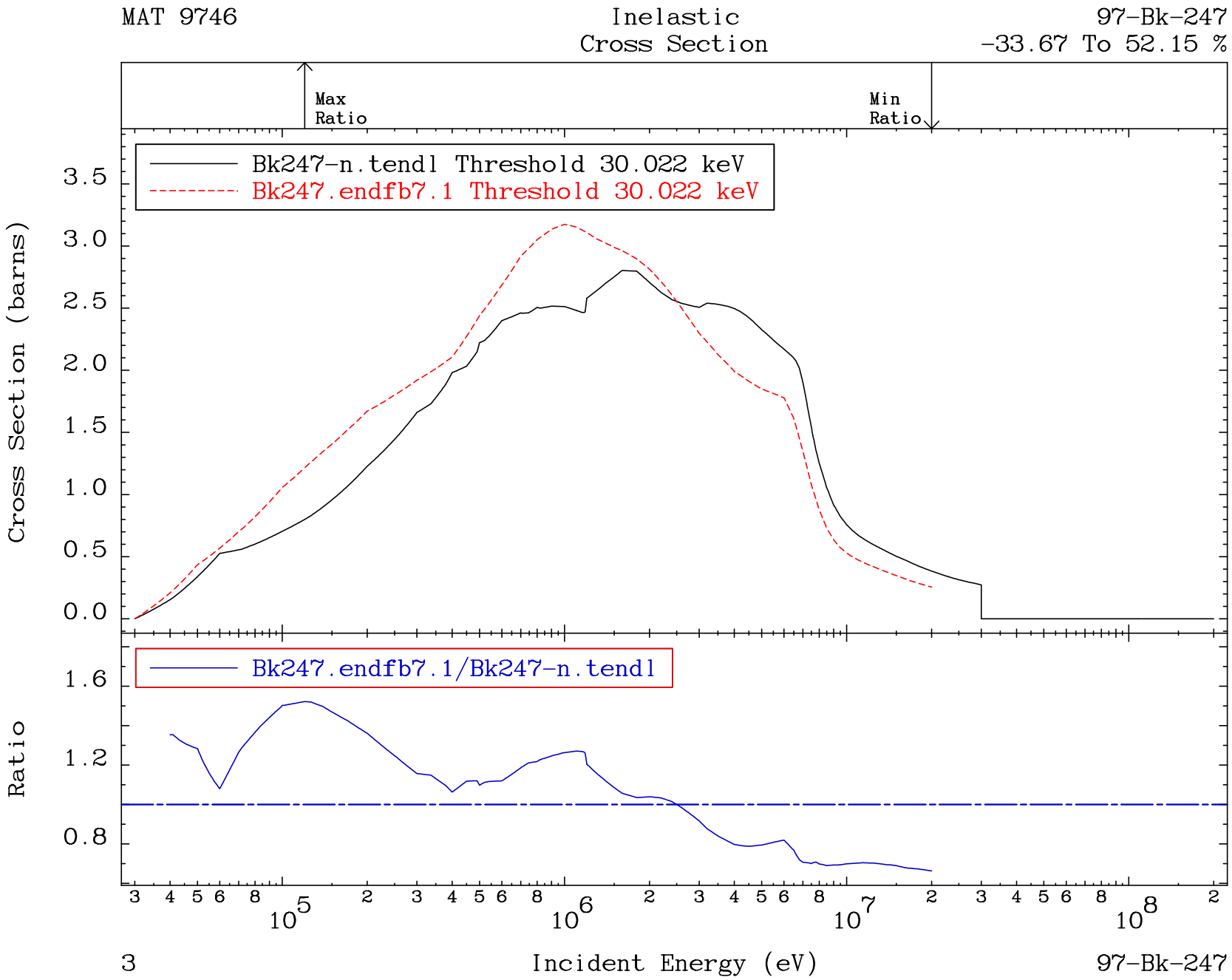

MAT 9746
Total $\bar{\nu}$
Parameters
97-Bk-247
-16.04 To -16.04%
Min
Ratio
Max
Ratio
Bk247-n.tendl
Bk247.endfb7.1
Bk247.endfb7.1/Bk247-n.tendl
Parameters
Ratio
4.2
4.0
3.8
3.6
0.85
0.84
0.83
0.0
0.2
0.4
0.6
0.8
1.0
1
Incident Energy (KeV)
97-Bk-247

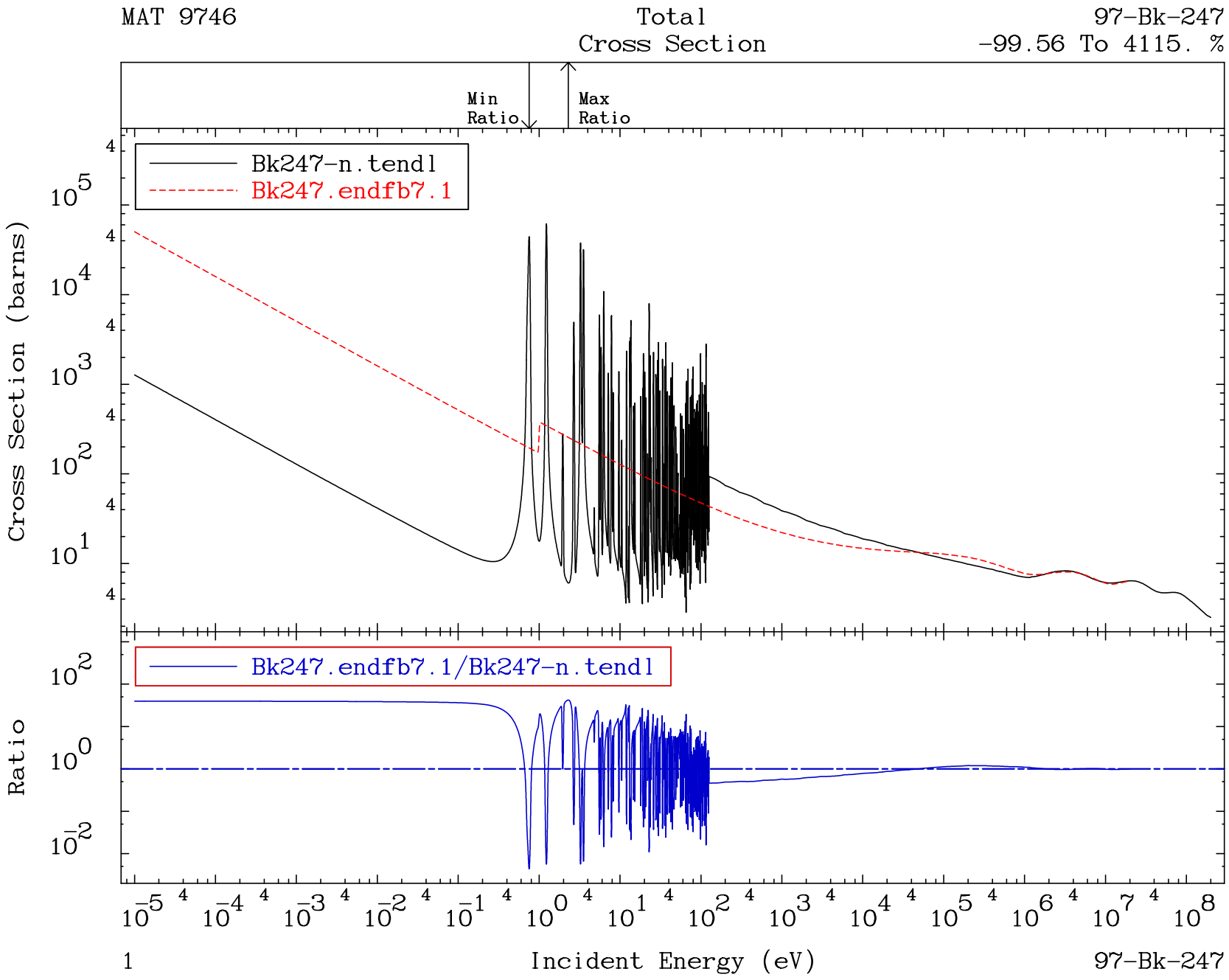

MAT 9746
Prompt $\bar{\nu}$
Parameters
97-Bk-247
-16.06 To -16.05%
Min
Ratio
Max
Ratio
Bk247-n.tendl
Bk247.endfb7.1
Bk247.endfb7.1/Bk247-n.tendl
Parameters
Ratio
4.2
4.0
3.8
3.6
0.85
0.84
0.83
0.0
0.2
0.4
0.6
0.8
1.0
2
Incident Energy (KeV)
97-Bk-247

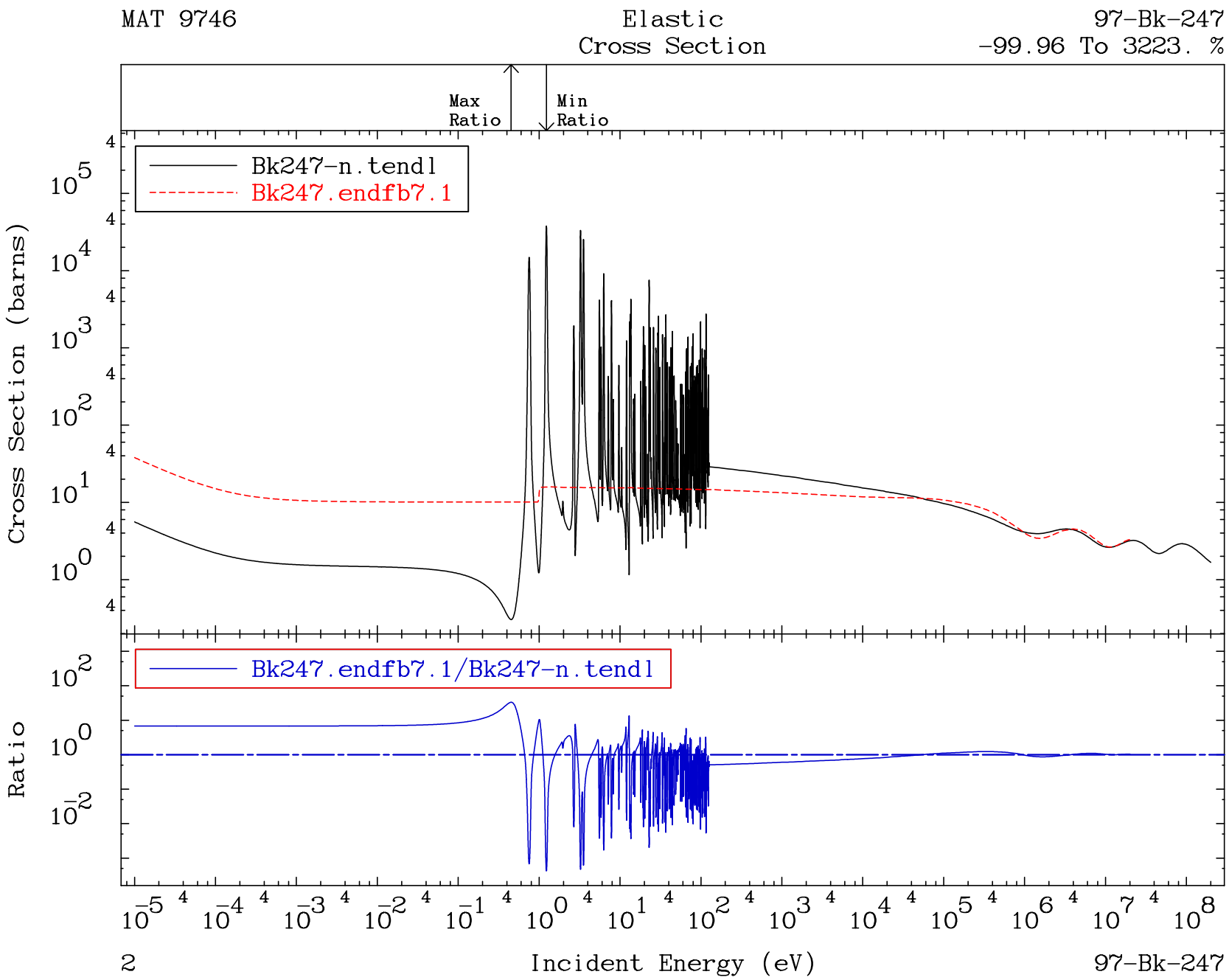

MAT 9746
Inelastic
Cross Section
97-Bk-247
-33.67 To 52.15 %
Max
Ratio
Min
Ratio
Bk247-n.tendl Threshold 30.022 keV
Bk247.endfb7.1 Threshold 30.022 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
1.6
1.2
0.8
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
97-Bk-247

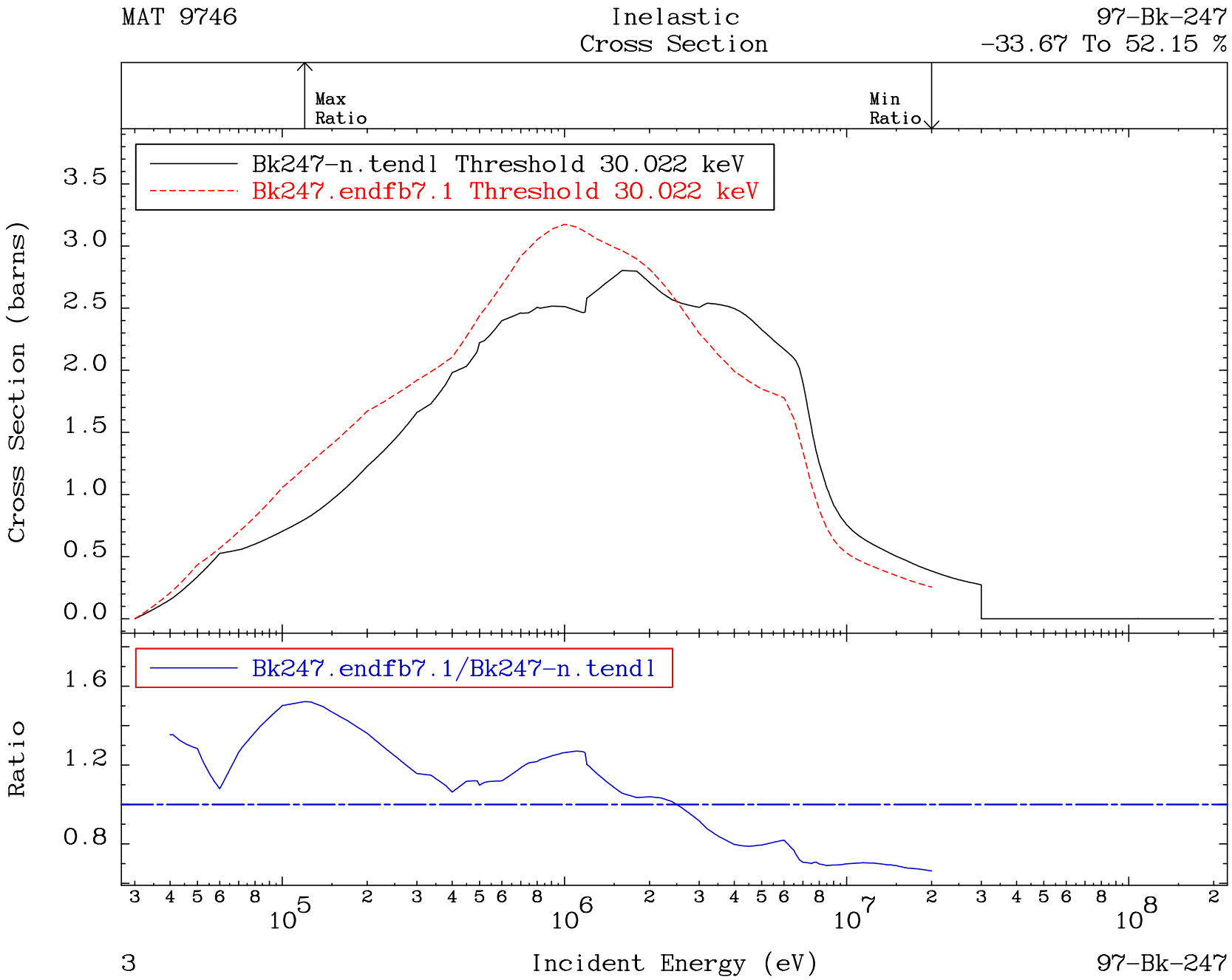

MAT 9746
Total $\bar{\nu}$
Parameters
97-Bk-247
-16.04 To 9.948 %
Min Ratio
Max Ratio
Bk247-n.tendl
Bk247.endfb7.1
Parameters
8
7
6
5
4
Bk247.endfb7.1/Bk247-n.tendl
Ratio
1.1
1.0
0.9
0
50
100
150
200
1
Incident Energy (MeV)
97-Bk-247

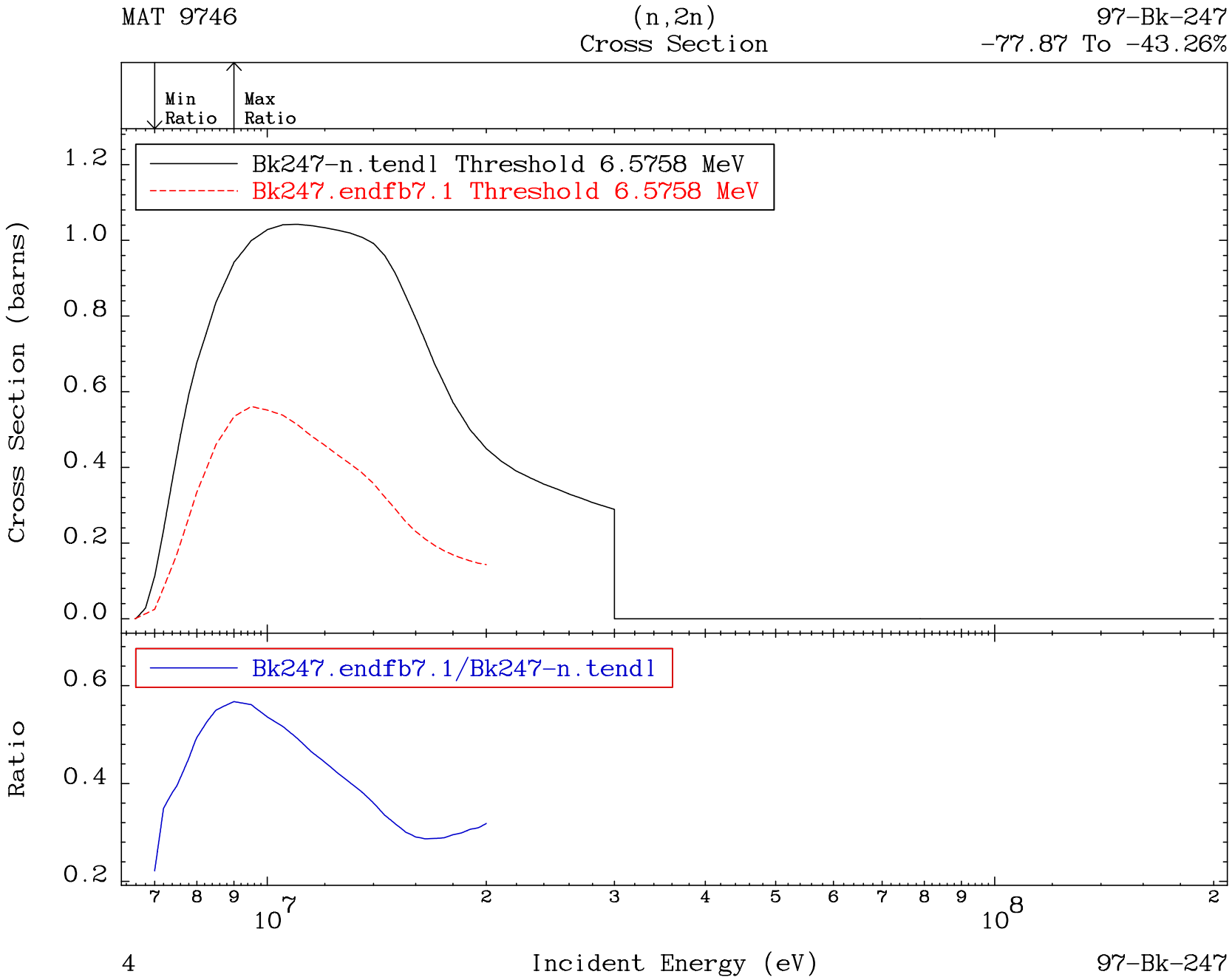

MAT 9746
Prompt $\bar{\nu}$
Parameters
97-Bk-247
-16.06 To 9.952 %
Min
Ratio
Max
Ratio
Bk247-n.tendl
Bk247.endfb7.1
Parameters
8
7
6
5
4
Bk247.endfb7.1/Bk247-n.tendl
Ratio
1.1
1.0
0.9
0
50
100
150
200
2
Incident Energy (MeV)
97-Bk-247

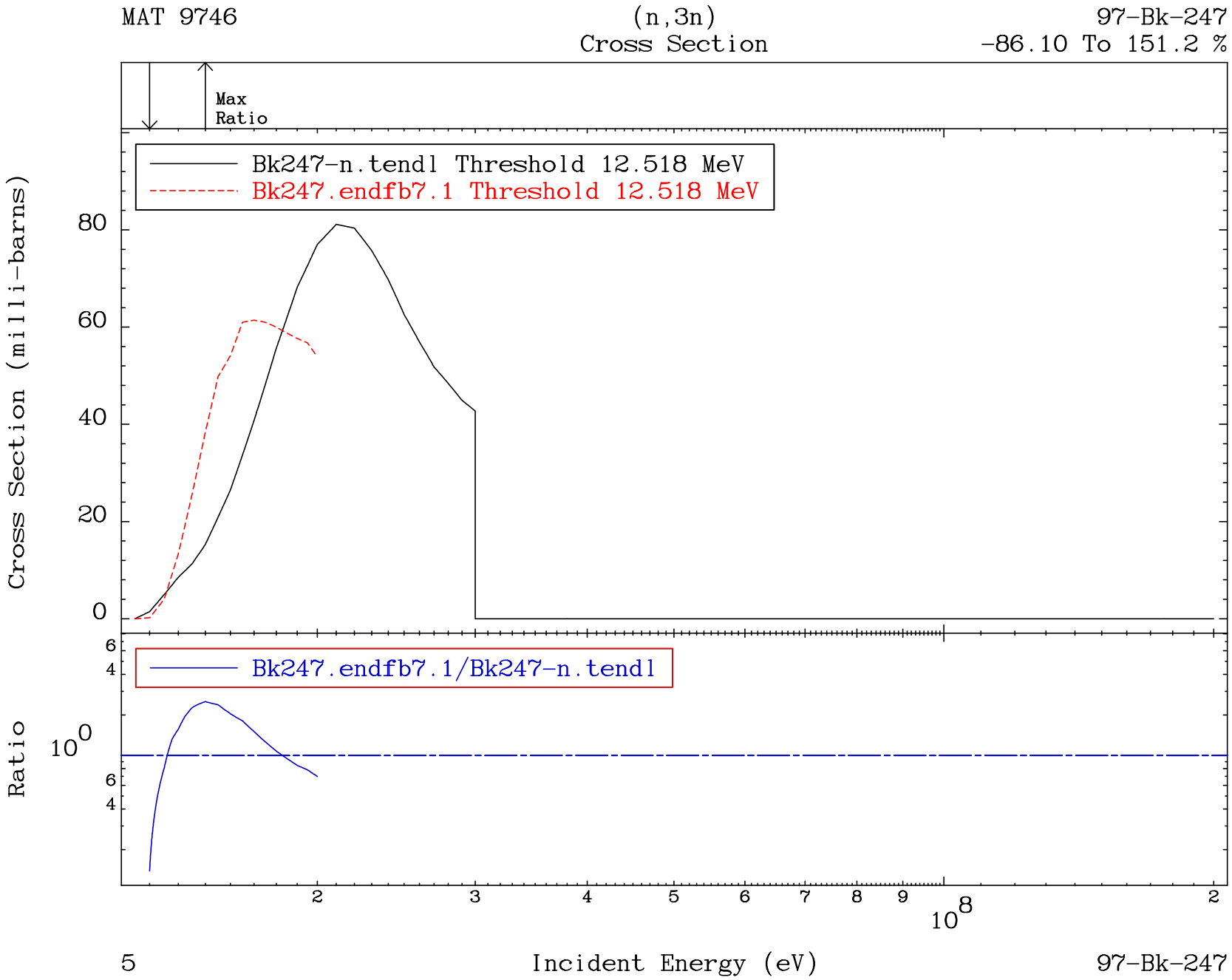

MAT 9746
Inelastic
Cross Section
97-Bk-247
-33.67 To 52.15 %
Max
Ratio
Min
Ratio
Bk247-n.tendl Threshold 30.022 keV
Bk247.endfb7.1 Threshold 30.022 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
1.6
1.2
0.8
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
97-Bk-247

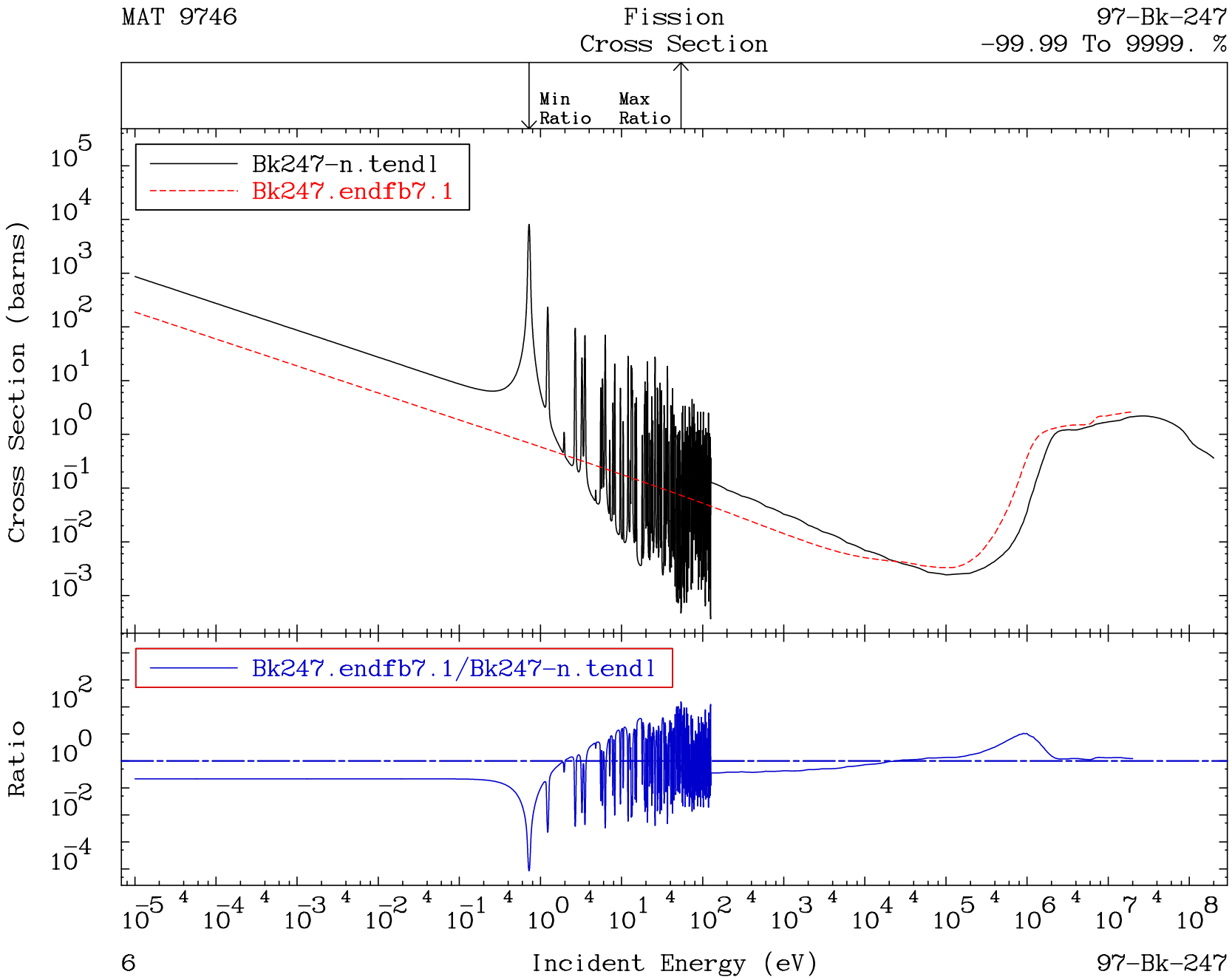

MAT 9746
Total
Cross Section
97-Bk-247
-99.56 To 4115. %
Min
Ratio
Max
Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
1
97-Bk-247

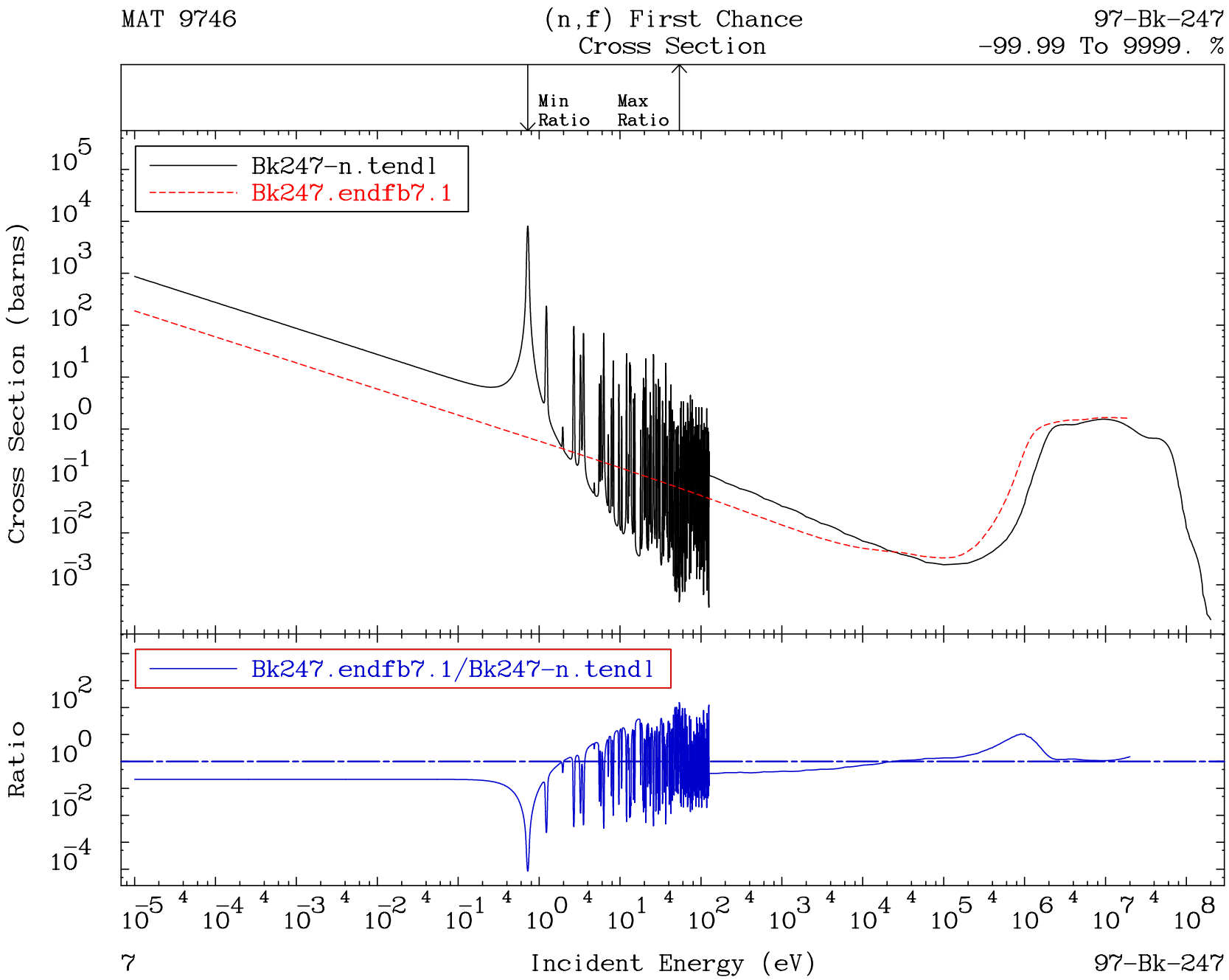

MAT 9746
Elastic
Cross Section
97-Bk-247
-99.96 To 3223. %
Max
Ratio
Min
Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
2
97-Bk-247

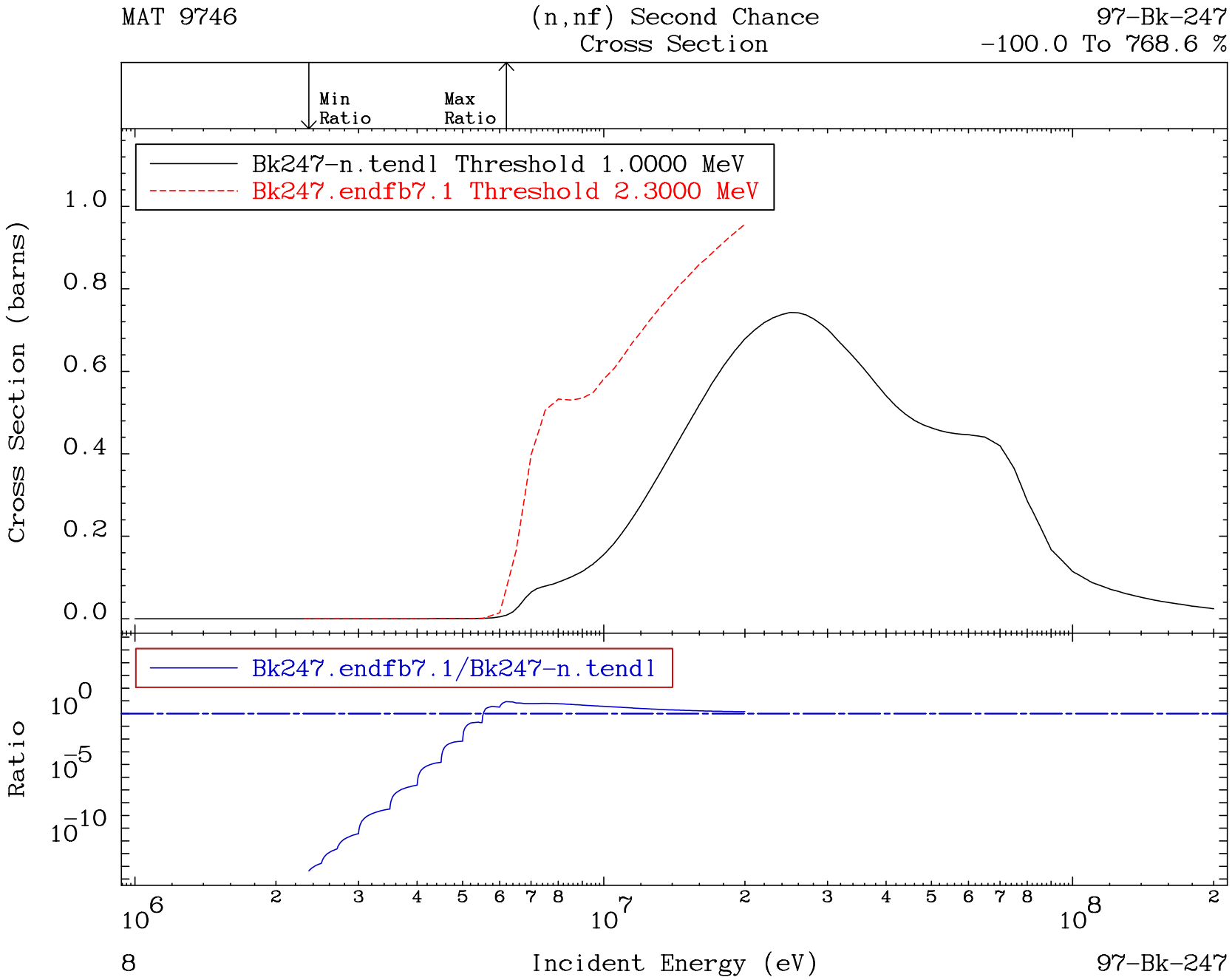

MAT 9746
Inelastic
Cross Section
97-Bk-247
-33.67 To 52.15 %
Max
Ratio
Min
Ratio
Bk247-n.tendl Threshold 30.022 keV
Bk247.endfb7.1 Threshold 30.022 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
1.6
1.2
0.8
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
97-Bk-247

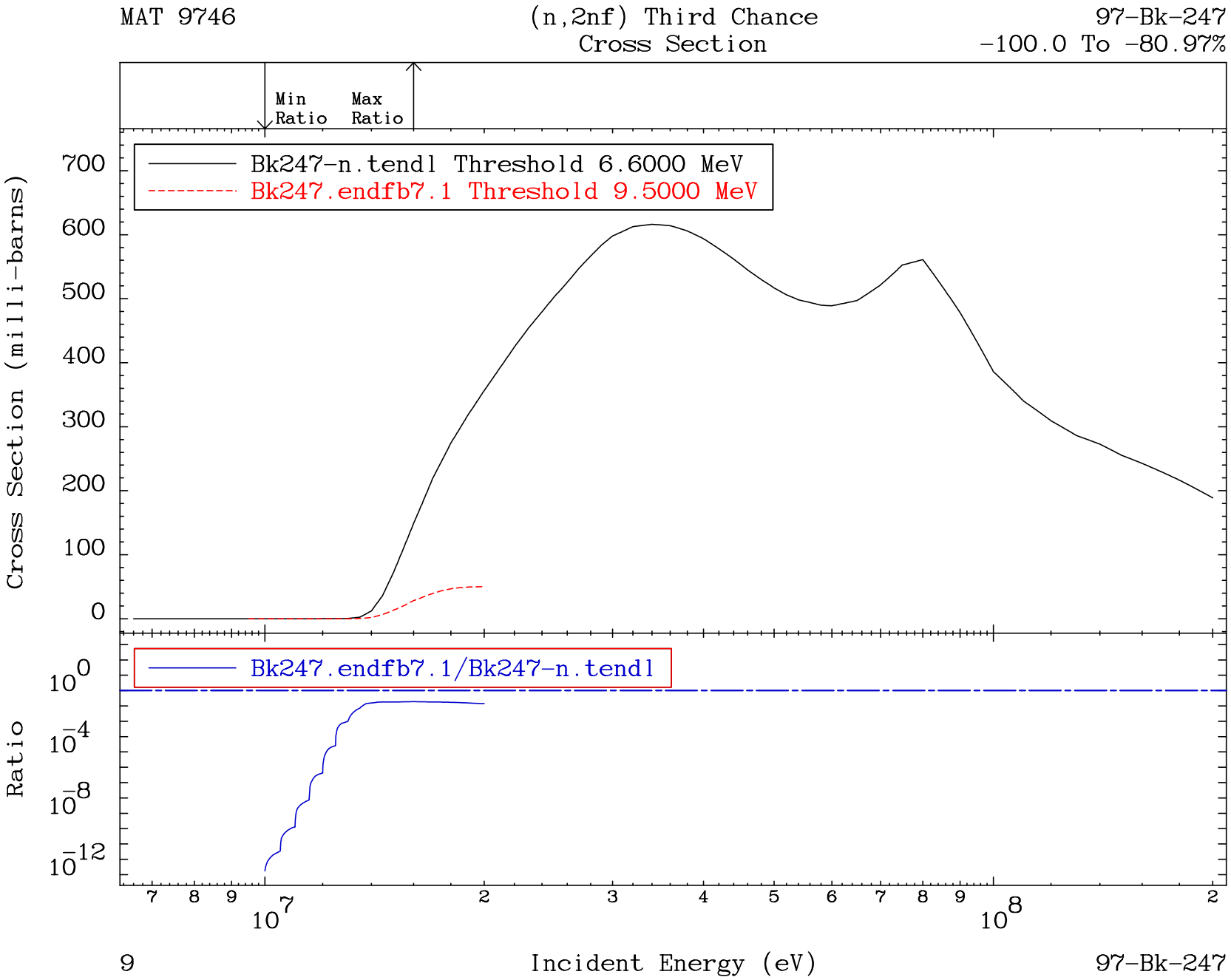

MAT 9746
(n,2n)
Cross Section
97-Bk-247
-77.87 To -43.26%
Min Ratio
Max Ratio
Bk247-n.tendl Threshold 6.5758 MeV
Bk247.endfb7.1 Threshold 6.5758 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
0.6
0.4
0.2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
97-Bk-247

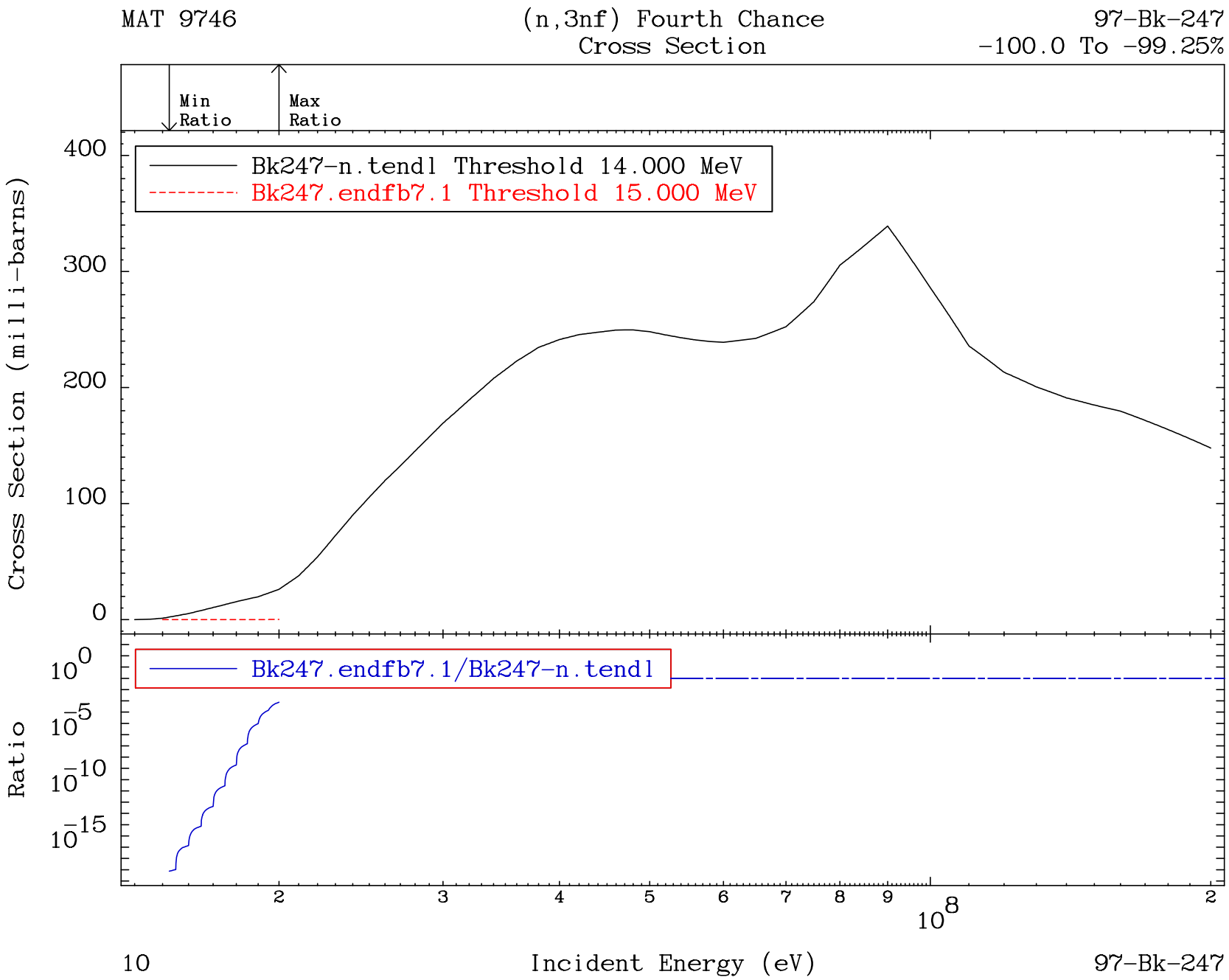

MAT 9746
(n,3n)
Cross Section
97-Bk-247
-86.10 To 151.2 %
Max
Ratio
Bk247-n.tendl Threshold 12.518 MeV
Bk247.endfb7.1 Threshold 12.518 MeV
Cross Section (milli-barns)
80
60
40
20
0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
6
4
10^0
6
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
97-Bk-247

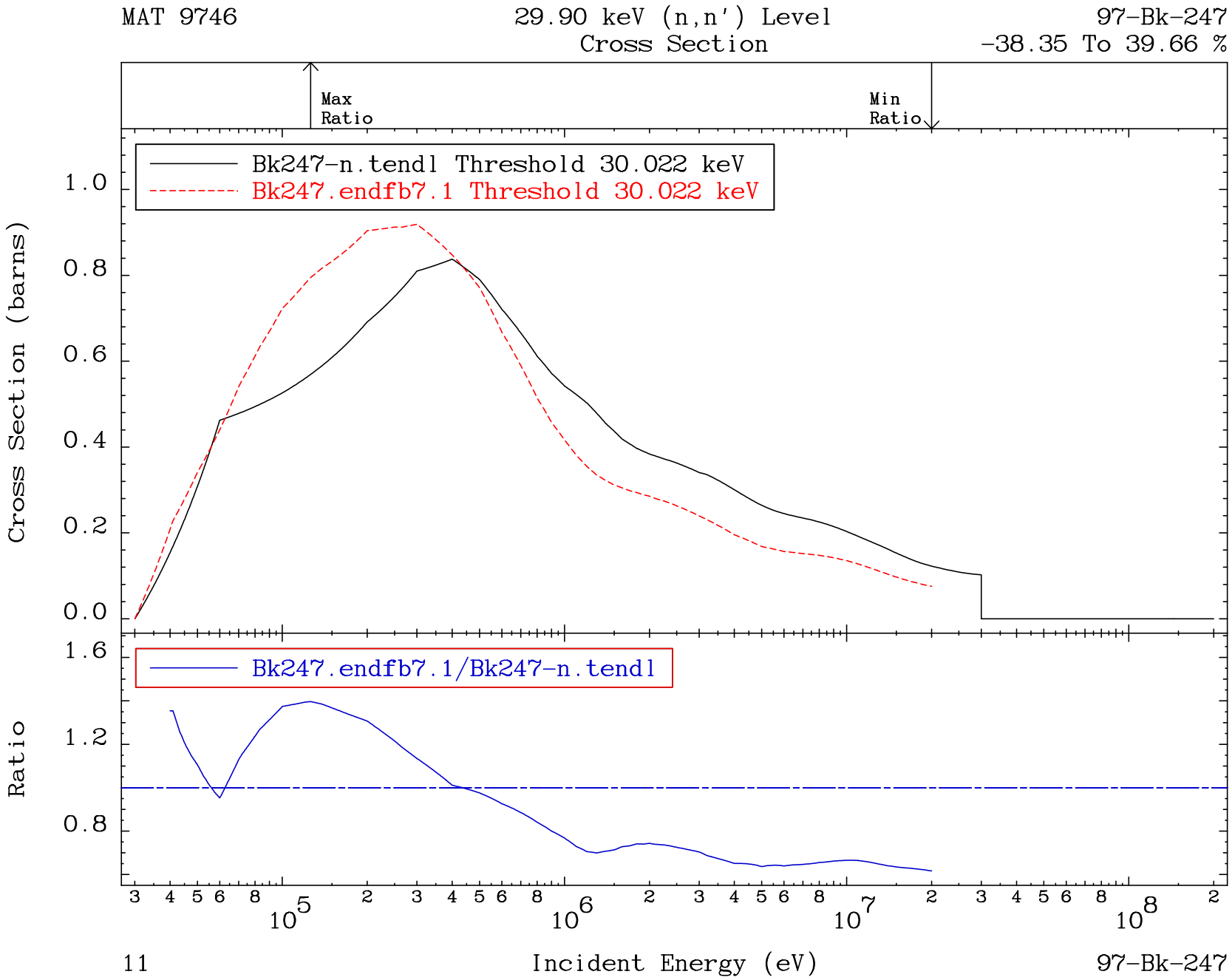

MAT 9746
Fission
Cross Section
97-Bk-247
-99.99 To 9999. %
Min Ratio
Max Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
6
97-Bk-247

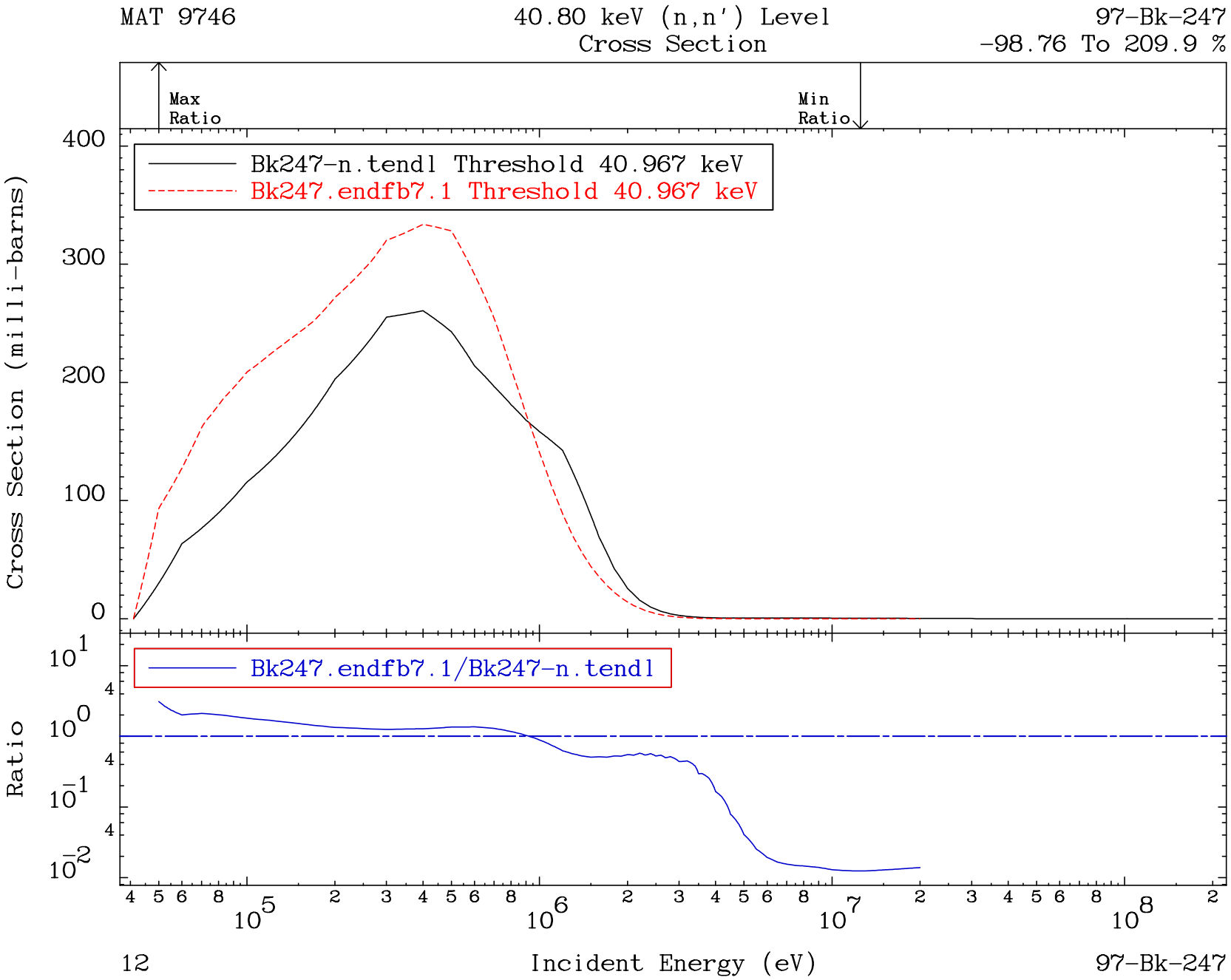

MAT 9746
(n,f) First Chance
Cross Section
97-Bk-247
-99.99 To 9999. %
Min
Ratio
Max
Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
7
97-Bk-247

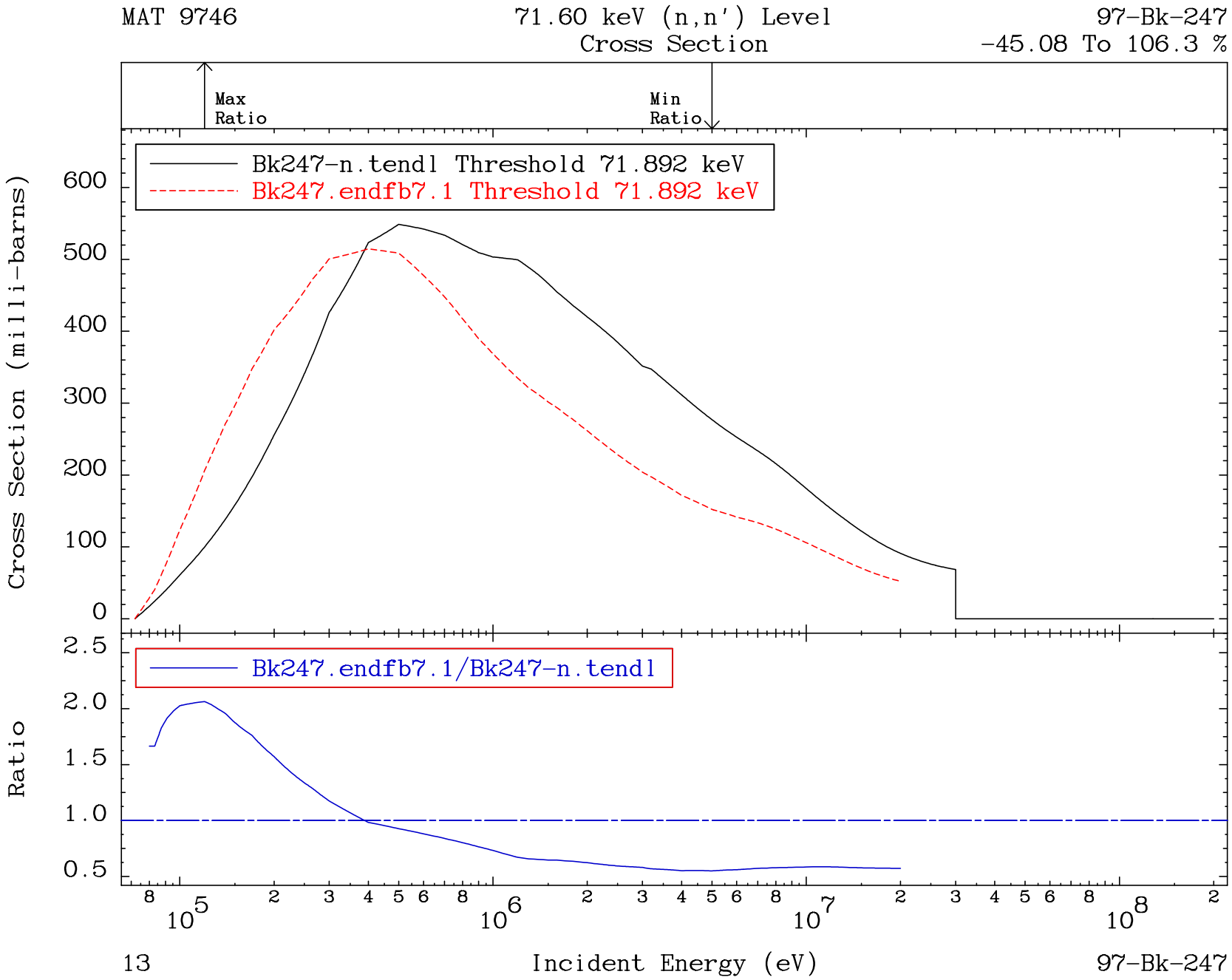

MAT 9746
(n,nf) Second Chance
Cross Section
97-Bk-247
-100.0 To 768.6 %
Min
Ratio
Max
Ratio
Bk247-n.tendl Threshold 1.0000 MeV
Bk247.endfb7.1 Threshold 2.3000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
10^0
10^-5
10^-10
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
8
Incident Energy (eV)
97-Bk-247

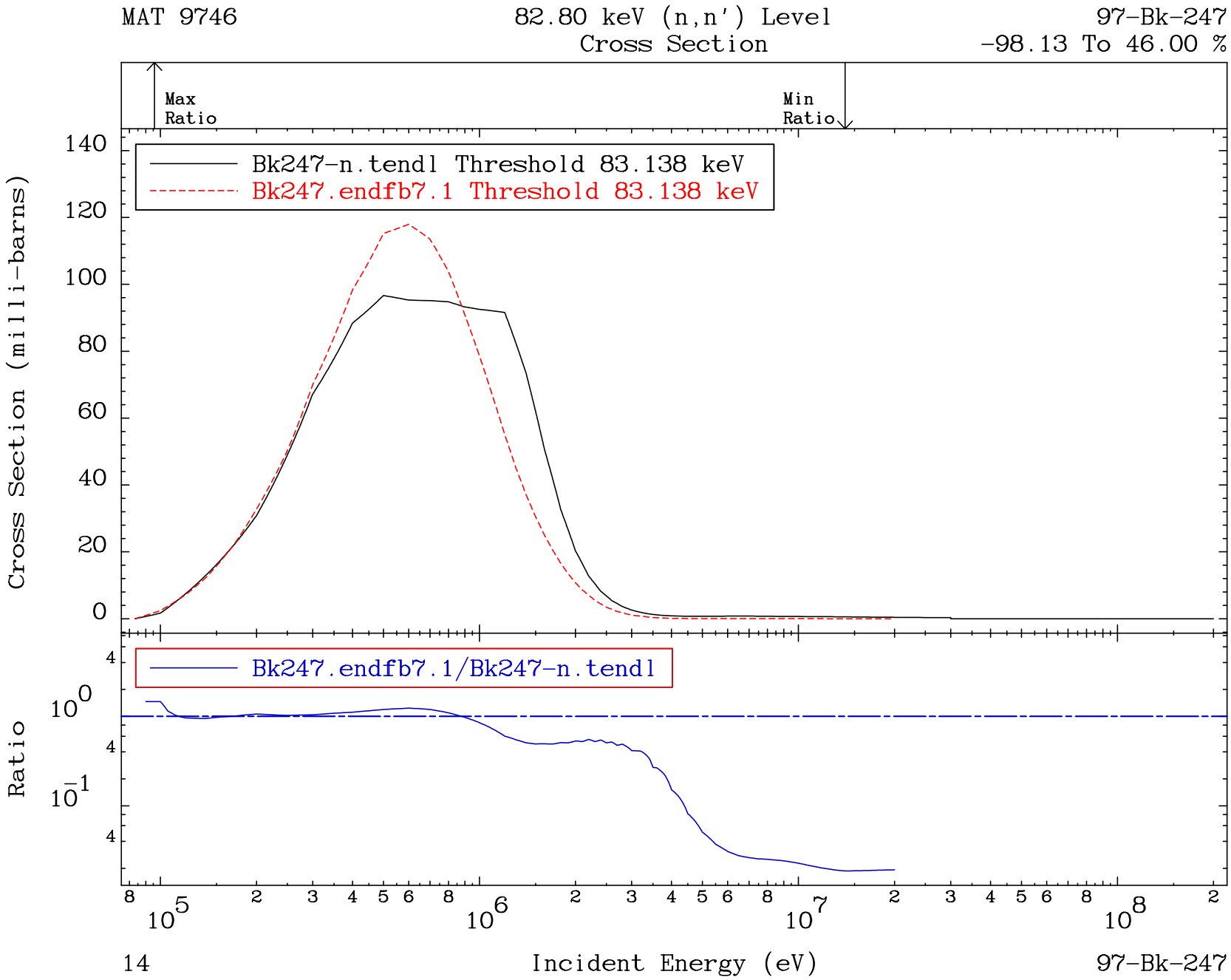

MAT 9746
(n,2nf) Third Chance
Cross Section
97-Bk-247
-100.0 To -80.97%
Min Ratio
Max Ratio
Bk247-n.tendl Threshold 6.6000 MeV
Bk247.endfb7.1 Threshold 9.5000 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
10^0
10^-4
10^-8
10^-12
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
97-Bk-247

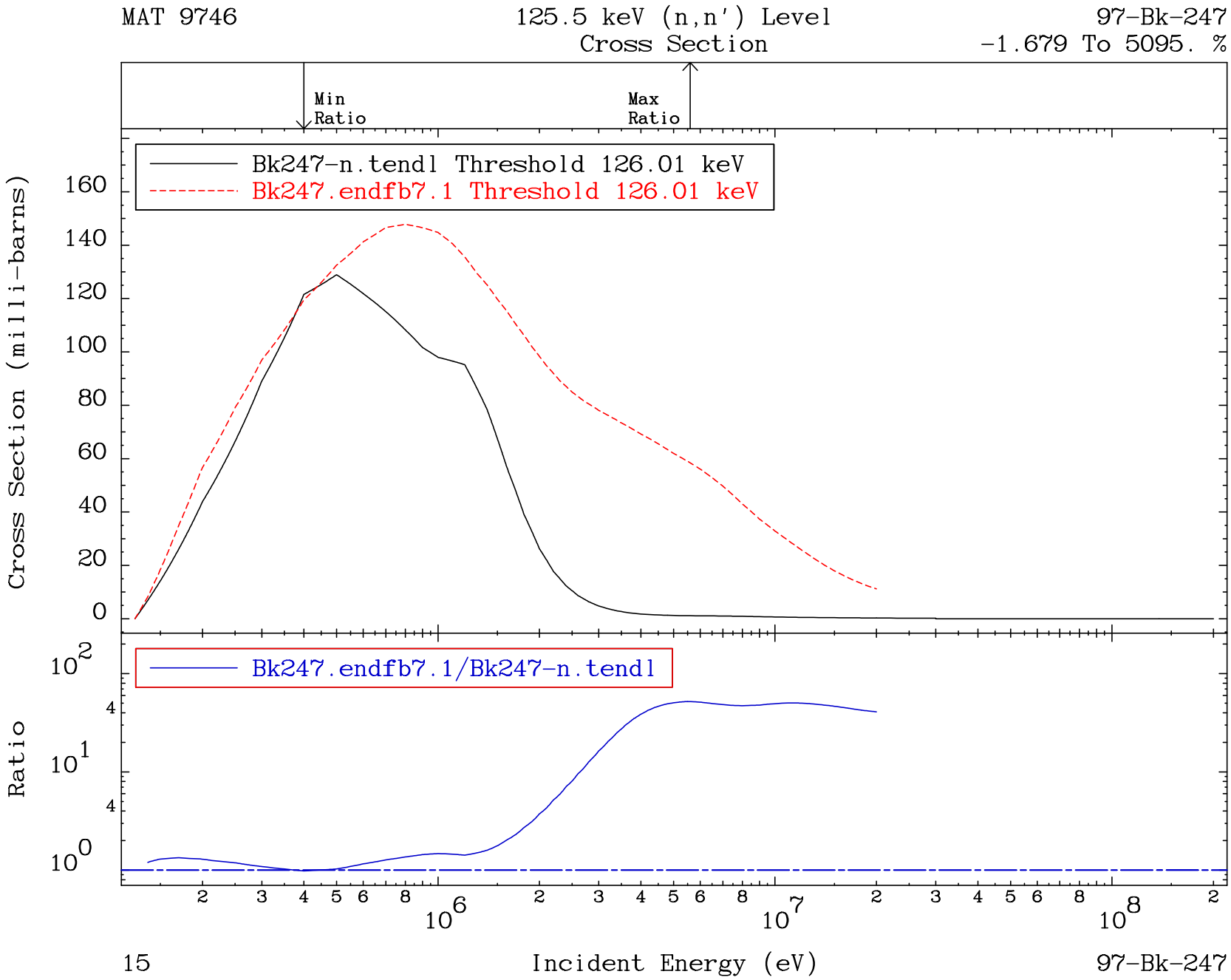

MAT 9746
(n,3nf) Fourth Chance
Cross Section
97-Bk-247
-100.0 To -99.25%
Min
Ratio
Max
Ratio
Bk247-n.tendl Threshold 14.000 MeV
Bk247.endfb7.1 Threshold 15.000 MeV
Cross Section (milli-barns)
400
300
200
100
0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
10^0
10^-5
10^-10
10^-15
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
97-Bk-247

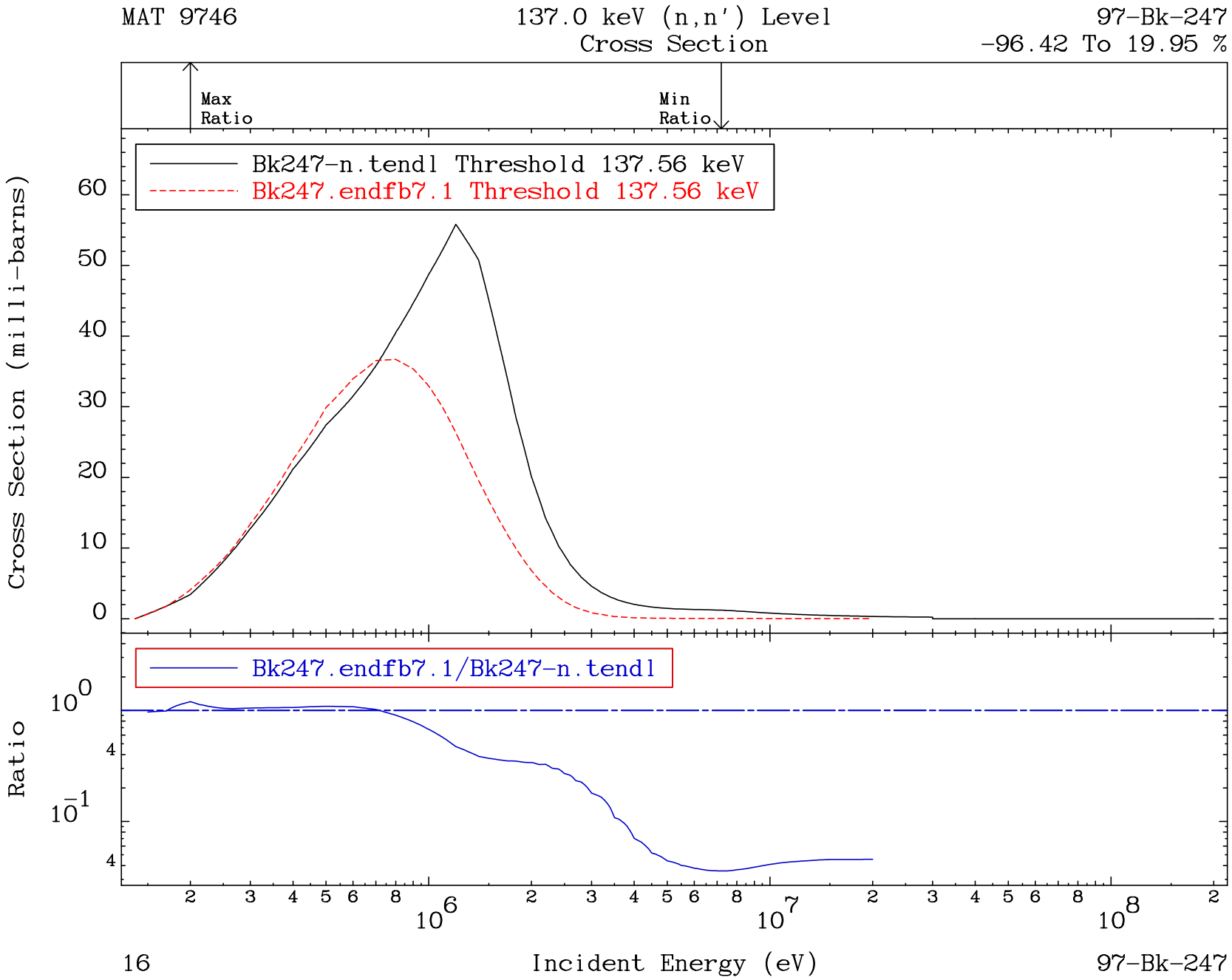

MAT 9746
29.90 keV (n,n') Level
Cross Section
97-Bk-247
-38.35 To 39.66 %
Max
Ratio
Min
Ratio
Bk247-n.tendl Threshold 30.022 keV
Bk247.endfb7.1 Threshold 30.022 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
1.6
1.2
0.8
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
97-Bk-247

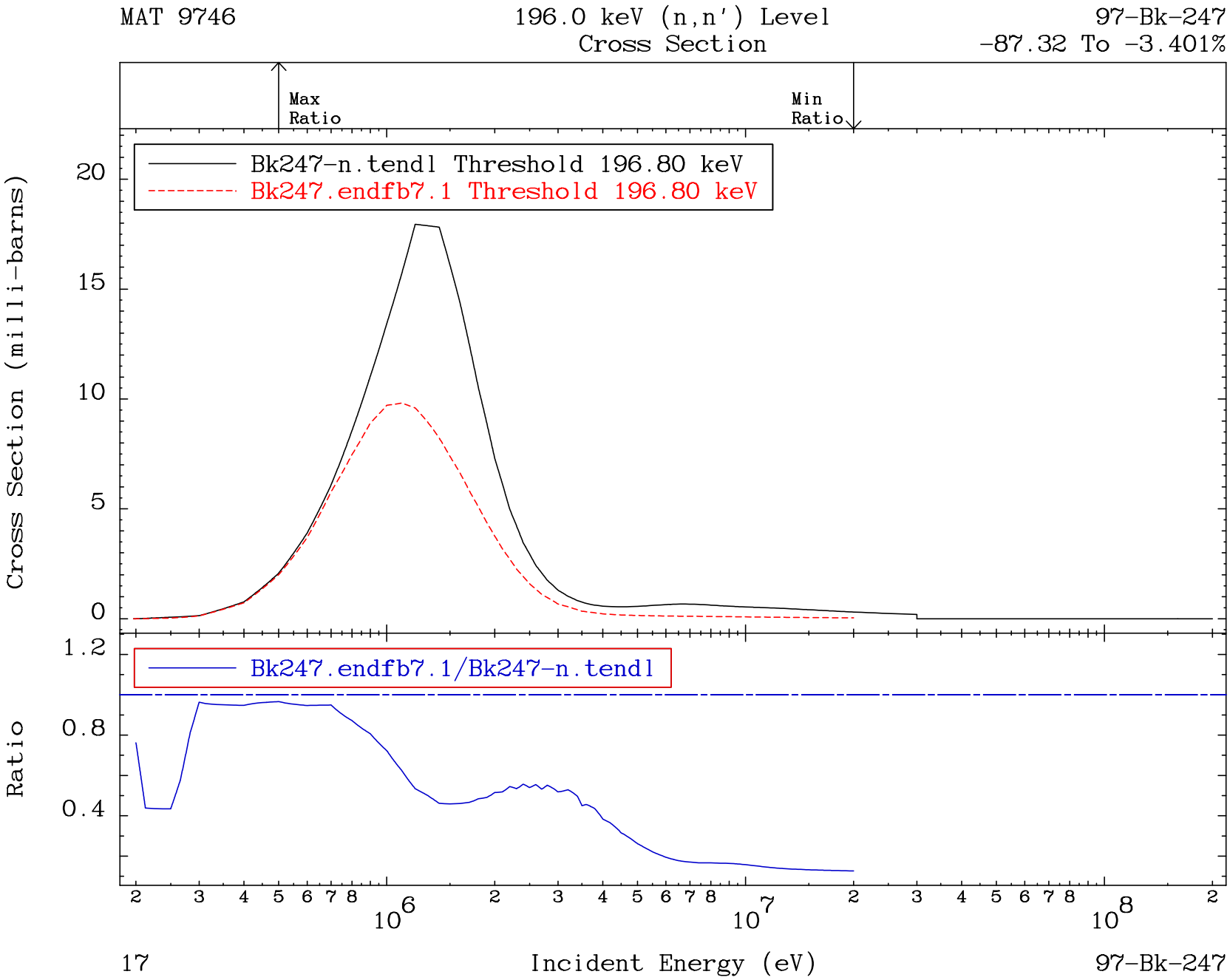

MAT 9746
40.80 keV (n,n') Level
Cross Section
97-Bk-247
-98.76 To 209.9 %
Max
Ratio
Min
Ratio
Bk247-n.tendl Threshold 40.967 keV
Bk247.endfb7.1 Threshold 40.967 keV
Cross Section (milli-barns)
400
300
200
100
0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
10^{1}
10^{0}
10^{-1}
10^{-2}
4 5 6 8 10^{5} 2 3 4 5 6 8 10^{6} 2 3 4 5 6 8 10^{7} 2 3 4 5 6 8 10^{8} 2
12
Incident Energy (eV)
97-Bk-247

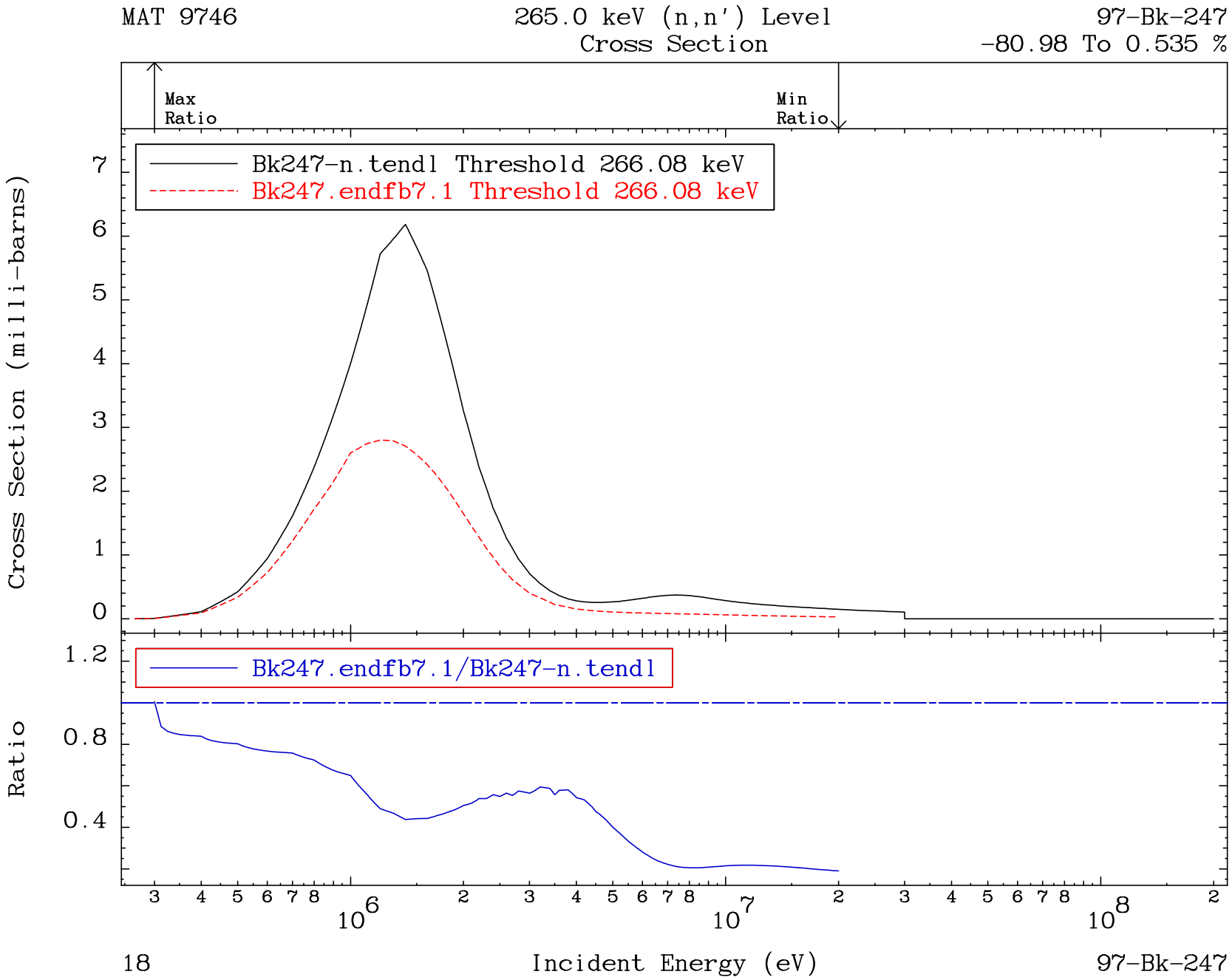

MAT 9746
71.60 keV (n,n') Level
Cross Section
97-Bk-247
-45.08 To 106.3 %
Max
Ratio
Min
Ratio
Bk247-n.tendl Threshold 71.892 keV
Bk247.endfb7.1 Threshold 71.892 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
2.5
2.0
1.5
1.0
0.5
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
13
Incident Energy (eV)
97-Bk-247

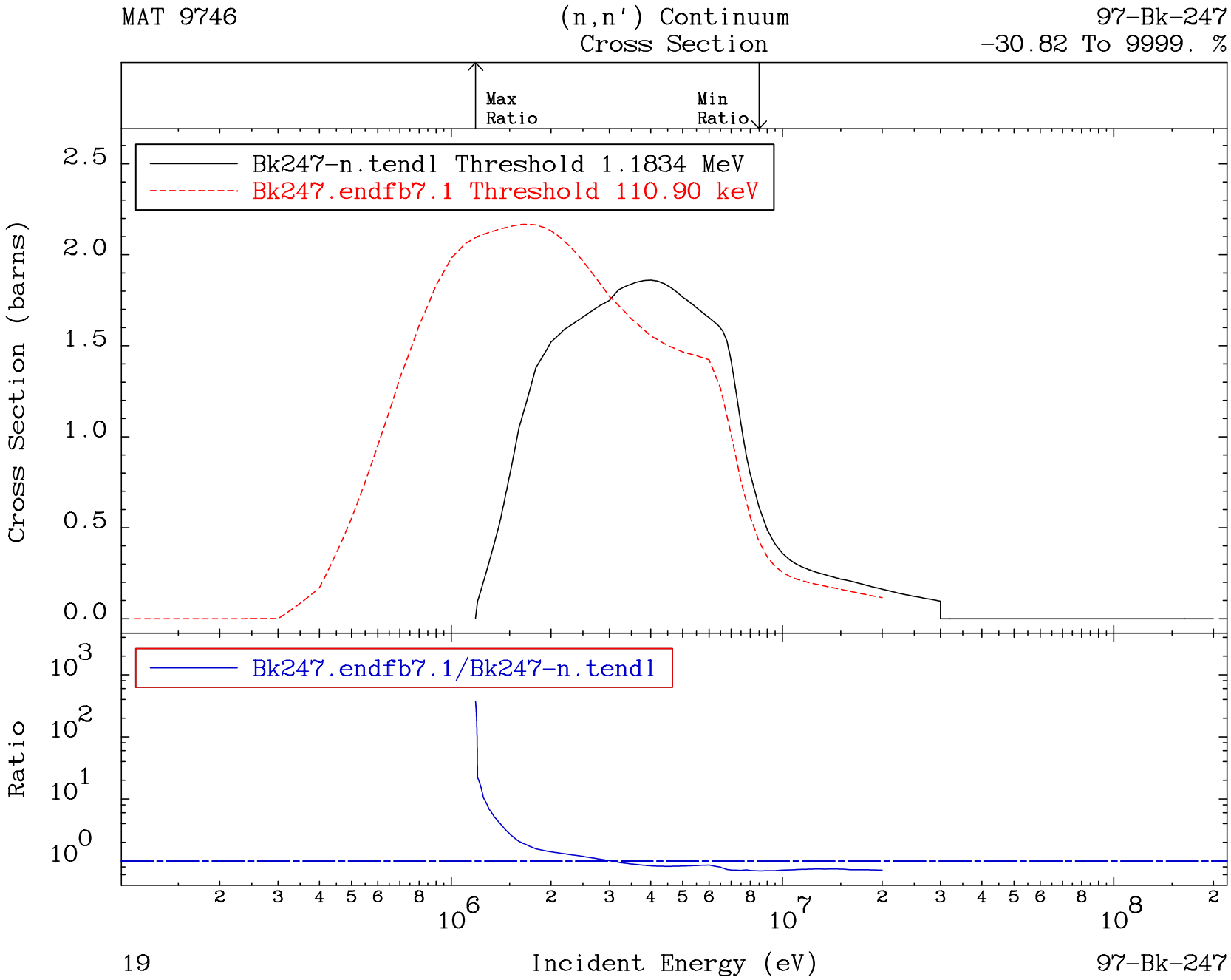

MAT 9746
82.80 keV (n,n') Level
Cross Section
97-Bk-247
-98.13 To 46.00 %
Max Ratio
Min Ratio
Bk247-n.tendl Threshold 83.138 keV
Bk247.endfb7.1 Threshold 83.138 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
10^{0}
10^{-1}
4
10^{5}
10^{6}
10^{7}
10^{8}
Incident Energy (eV)
14
97-Bk-247

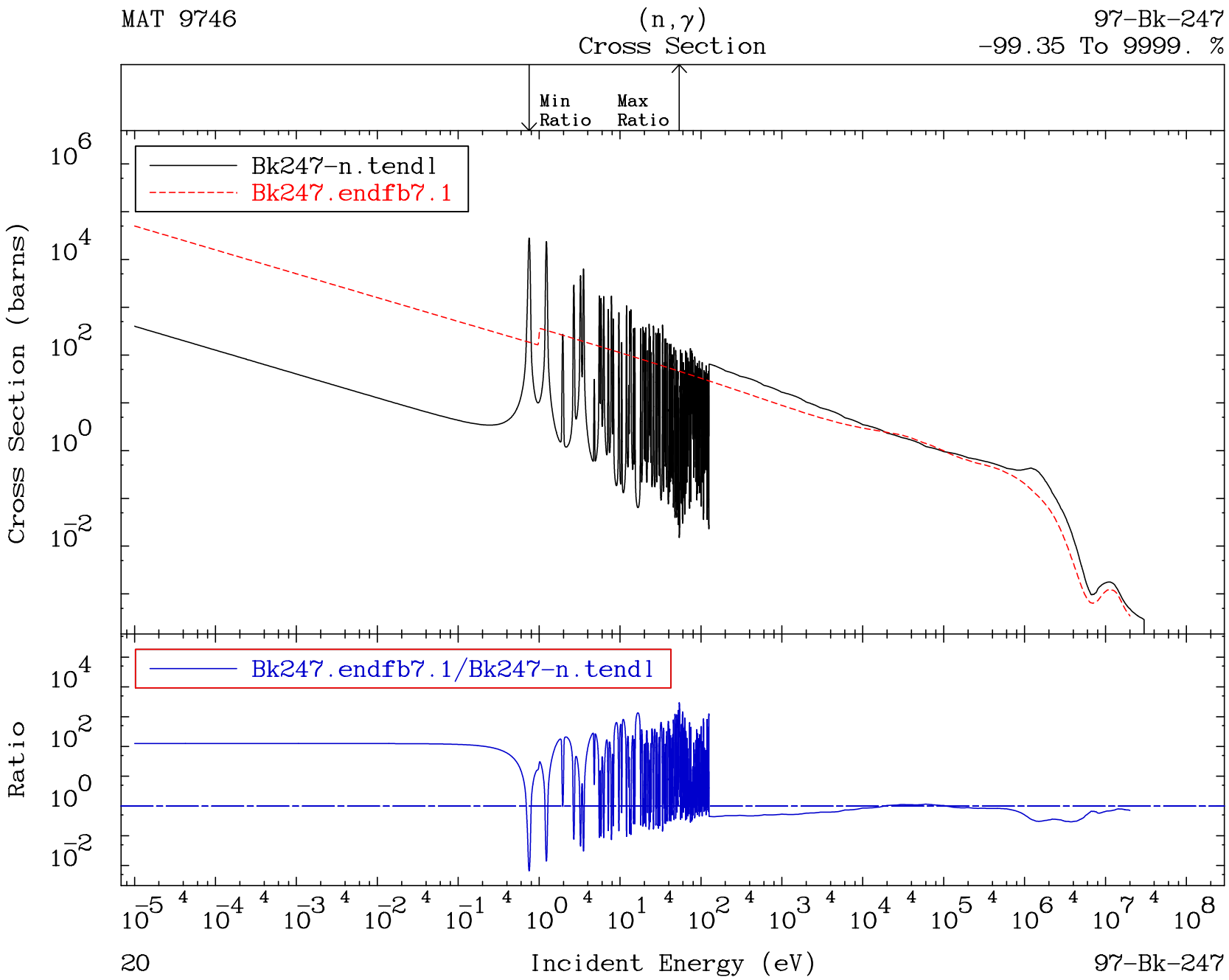

MAT 9746
125.5 keV (n,n') Level
Cross Section
97-Bk-247
-1.679 To 5095. %
Min Ratio
Max Ratio
Bk247-n.tendl Threshold 126.01 keV
Bk247.endfb7.1 Threshold 126.01 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
10^2
4
10^1
4
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
97-Bk-247

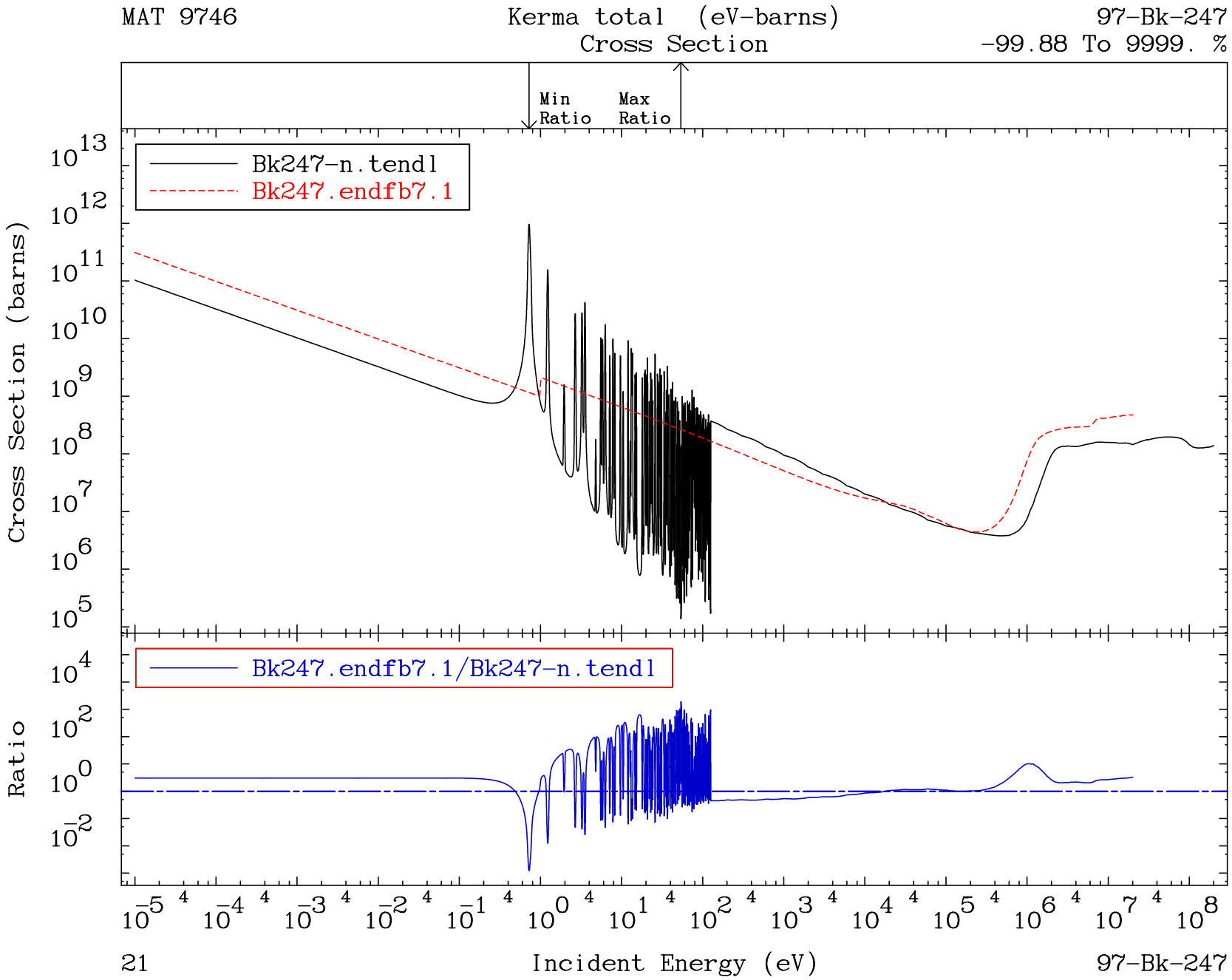

MAT 9746
137.0 keV (n,n') Level
Cross Section
97-Bk-247
-96.42 To 19.95 %
Max Ratio
Min Ratio
Bk247-n.tendl Threshold 137.56 keV
Bk247.endfb7.1 Threshold 137.56 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
10^0
4
10^-1
4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
97-Bk-247

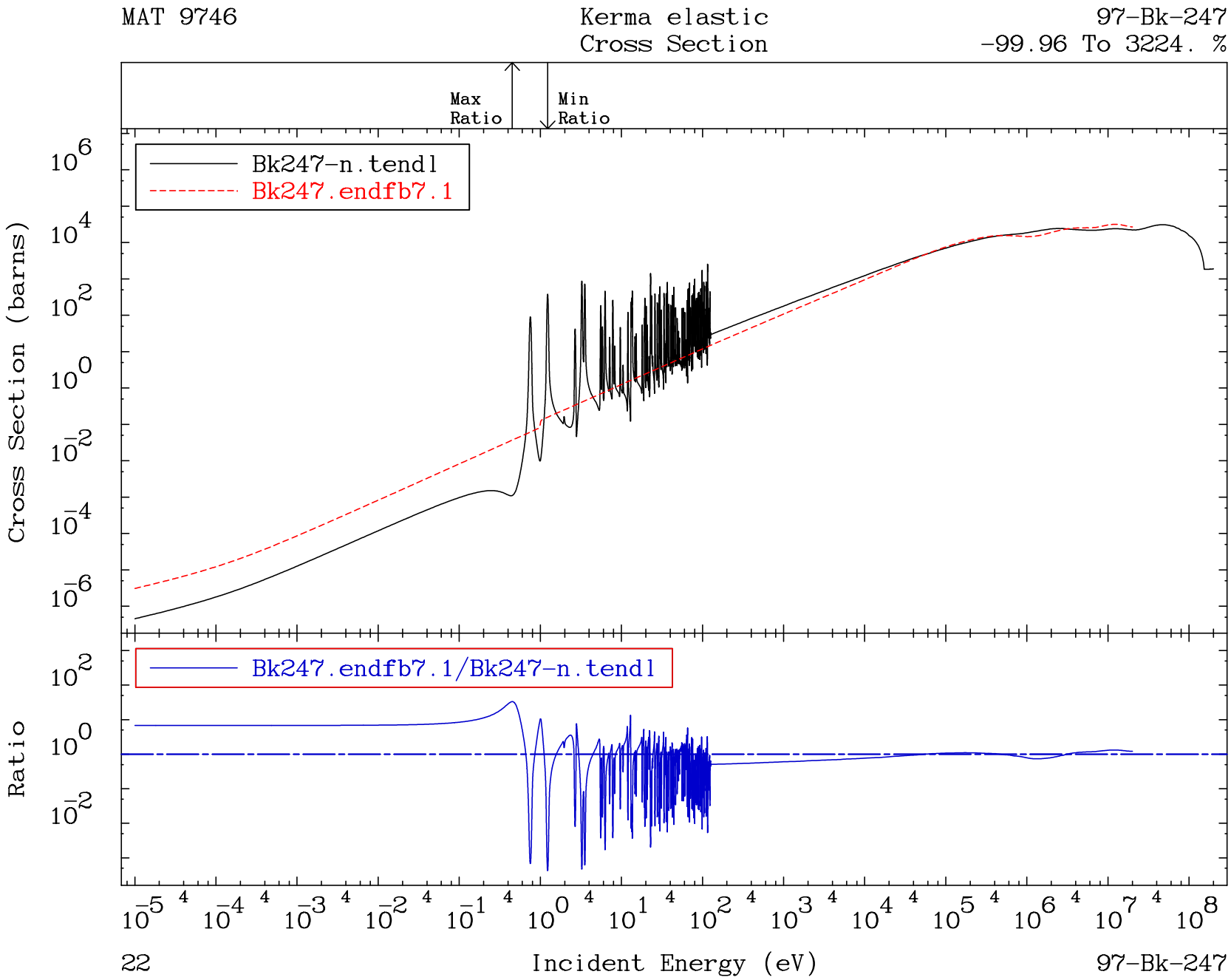

MAT 9746
196.0 keV (n,n') Level
Cross Section
97-Bk-247
-87.32 To -3.401%
Max
Ratio
Min
Ratio
Bk247-n.tendl Threshold 196.80 keV
Bk247.endfb7.1 Threshold 196.80 keV
Cross Section (milli-barns)
20
15
10
5
0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
97-Bk-247

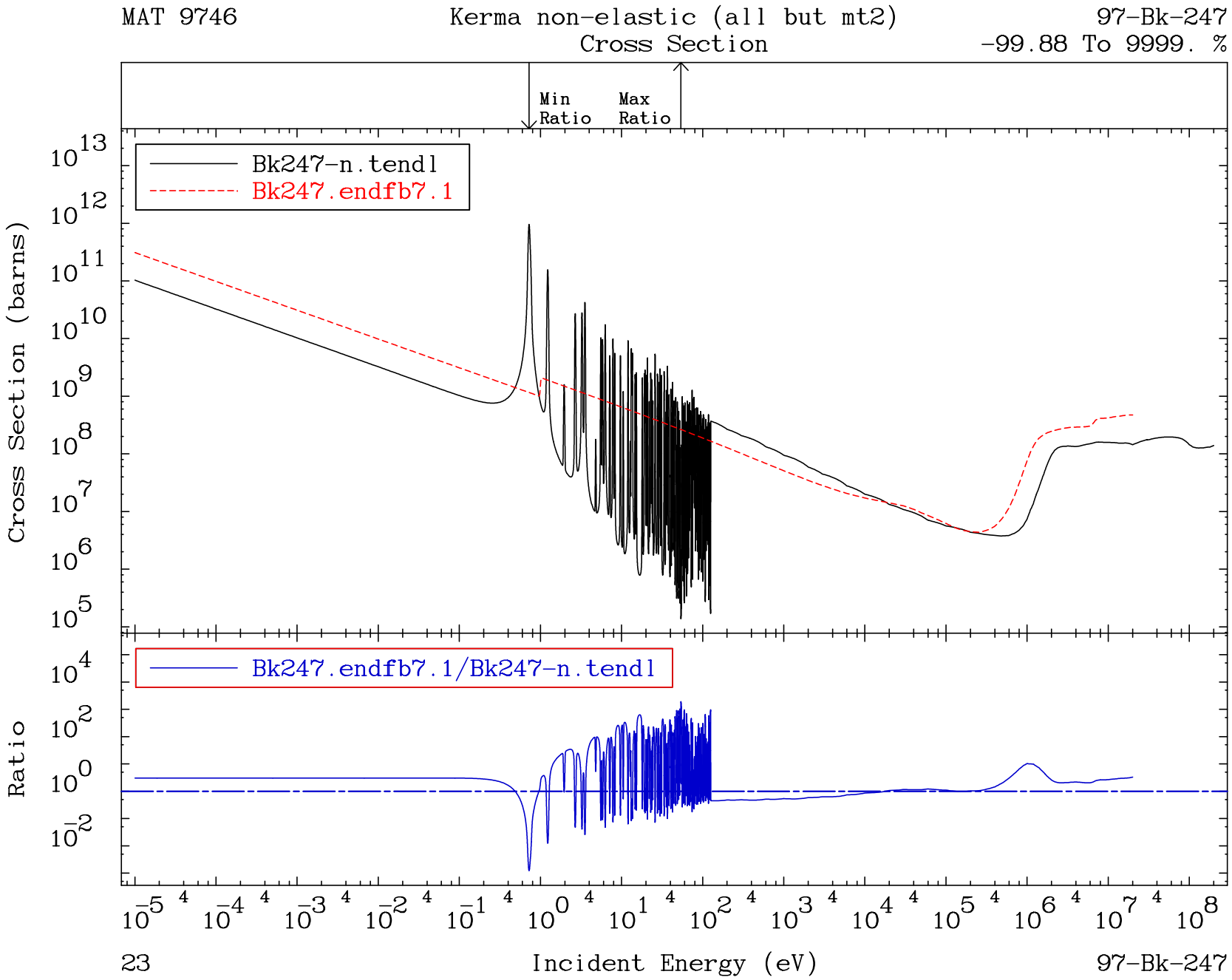

MAT 9746
265.0 keV (n,n') Level
Cross Section
97-Bk-247
-80.98 To 0.535 %
Max Ratio
Min Ratio
Bk247-n.tendl Threshold 266.08 keV
Bk247.endfb7.1 Threshold 266.08 keV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
Bk247.endfb7.1/Bk247-n.tendl
Ratio
0.4
0.8
1.2
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
97-Bk-247

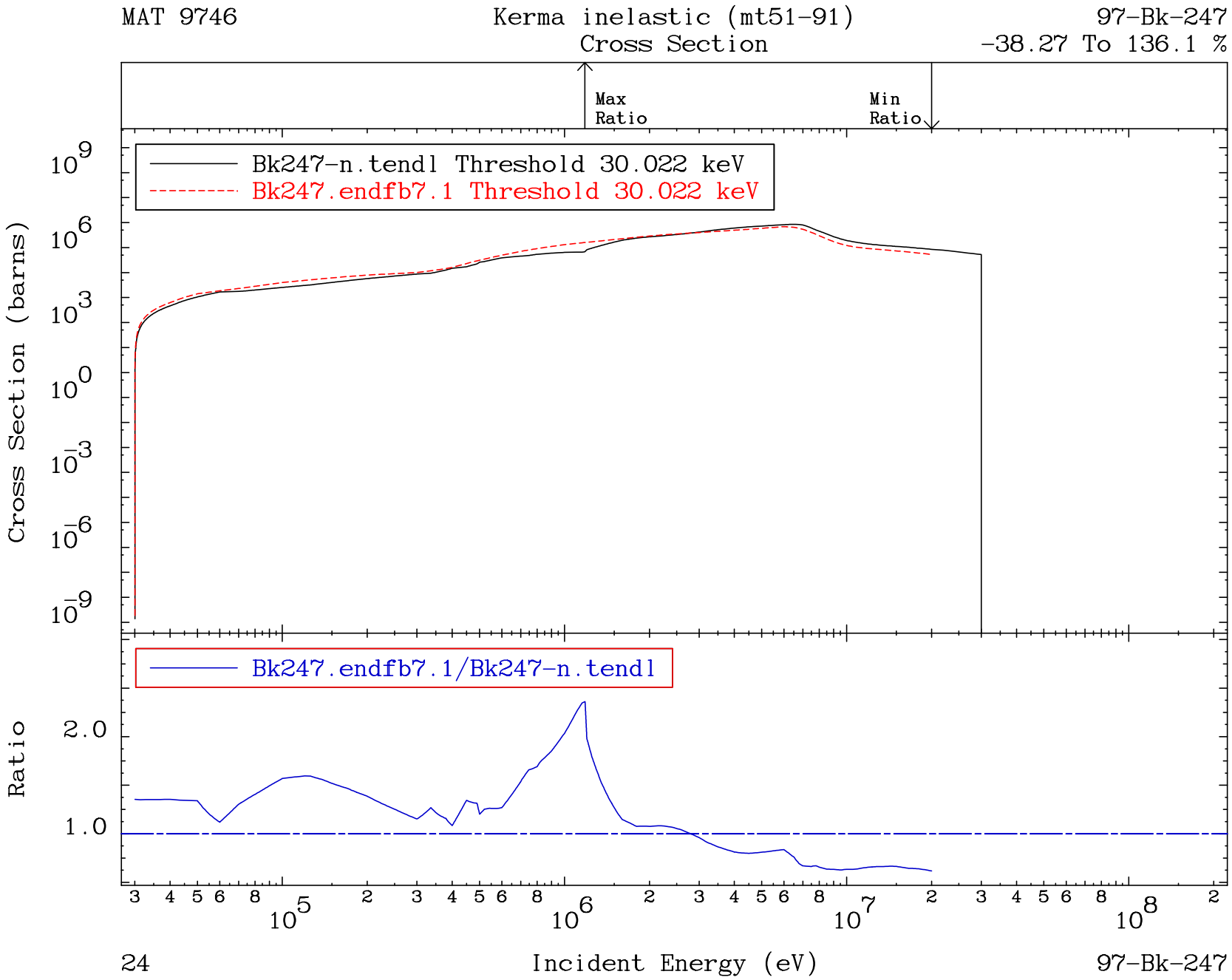

MAT 9746
(n,n') Continuum
Cross Section
97-Bk-247
-30.82 To 9999. %
Max
Ratio
Min
Ratio
Bk247-n.tendl Threshold 1.1834 MeV
Bk247.endfb7.1 Threshold 110.90 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Bk247.endfb7.1/Bk247-n.tendl
Ratio
10^3
10^2
10^1
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
97-Bk-247

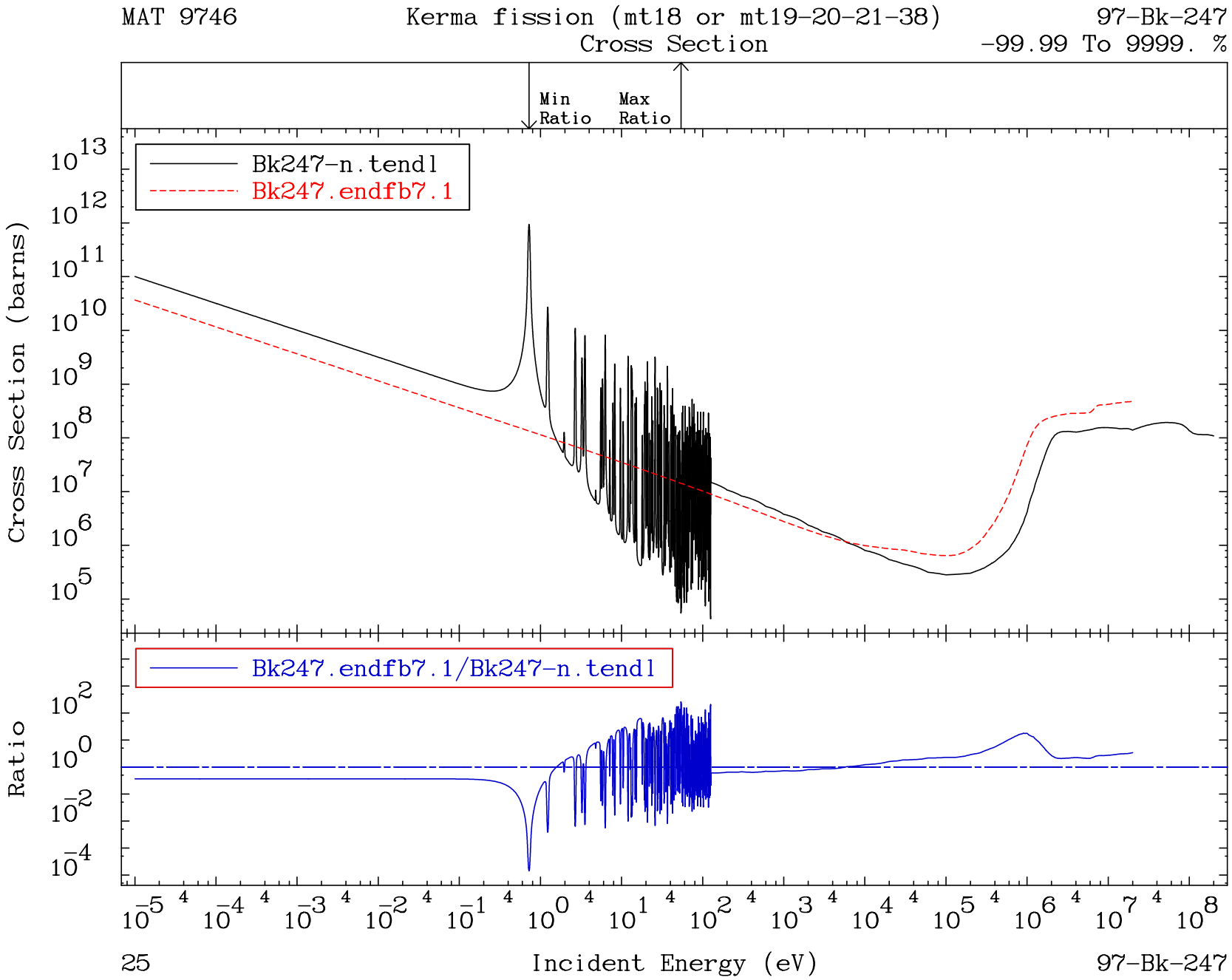

MAT 9746
(n,γ)
Cross Section
97-Bk-247
-99.35 To 9999. %
Min Ratio
Max Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
20
97-Bk-247

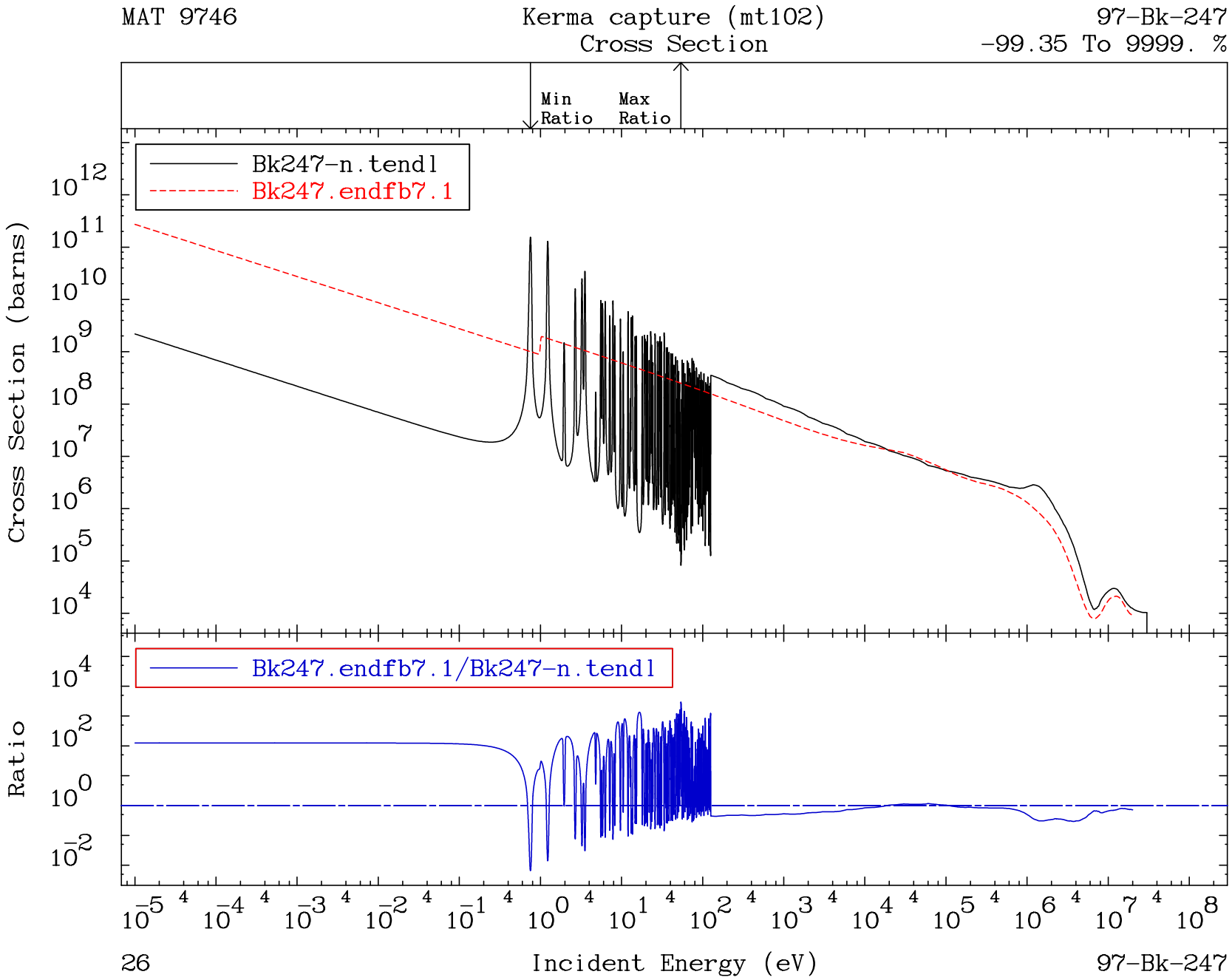

MAT 9746
Kerma total (eV-barns)
Cross Section
97-Bk-247
-99.88 To 9999. %
Min Ratio
Max Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
21
97-Bk-247

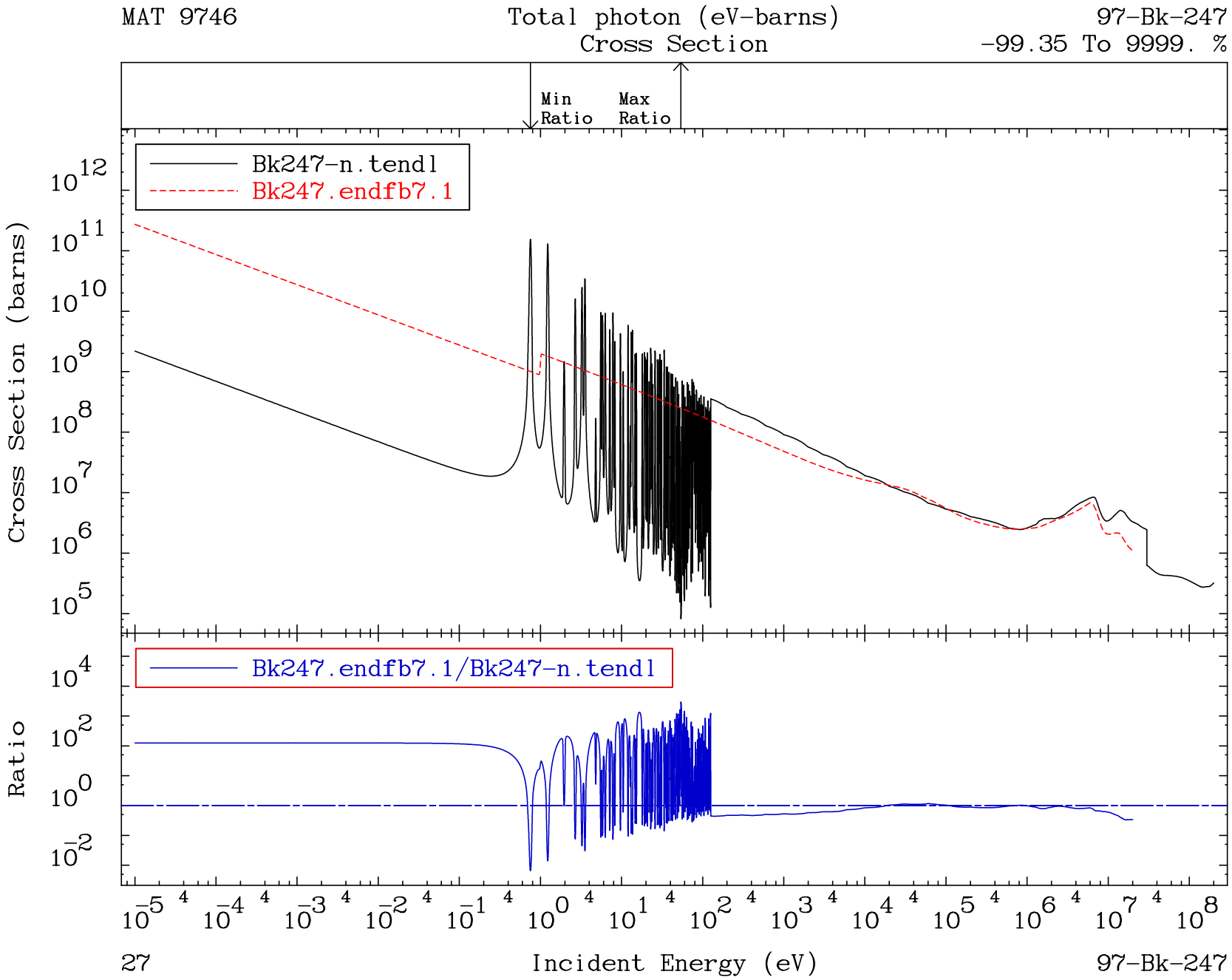

MAT 9746
Kerma elastic
Cross Section
97-Bk-247
-99.96 To 3224. %
Max Ratio
Min Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
22
97-Bk-247

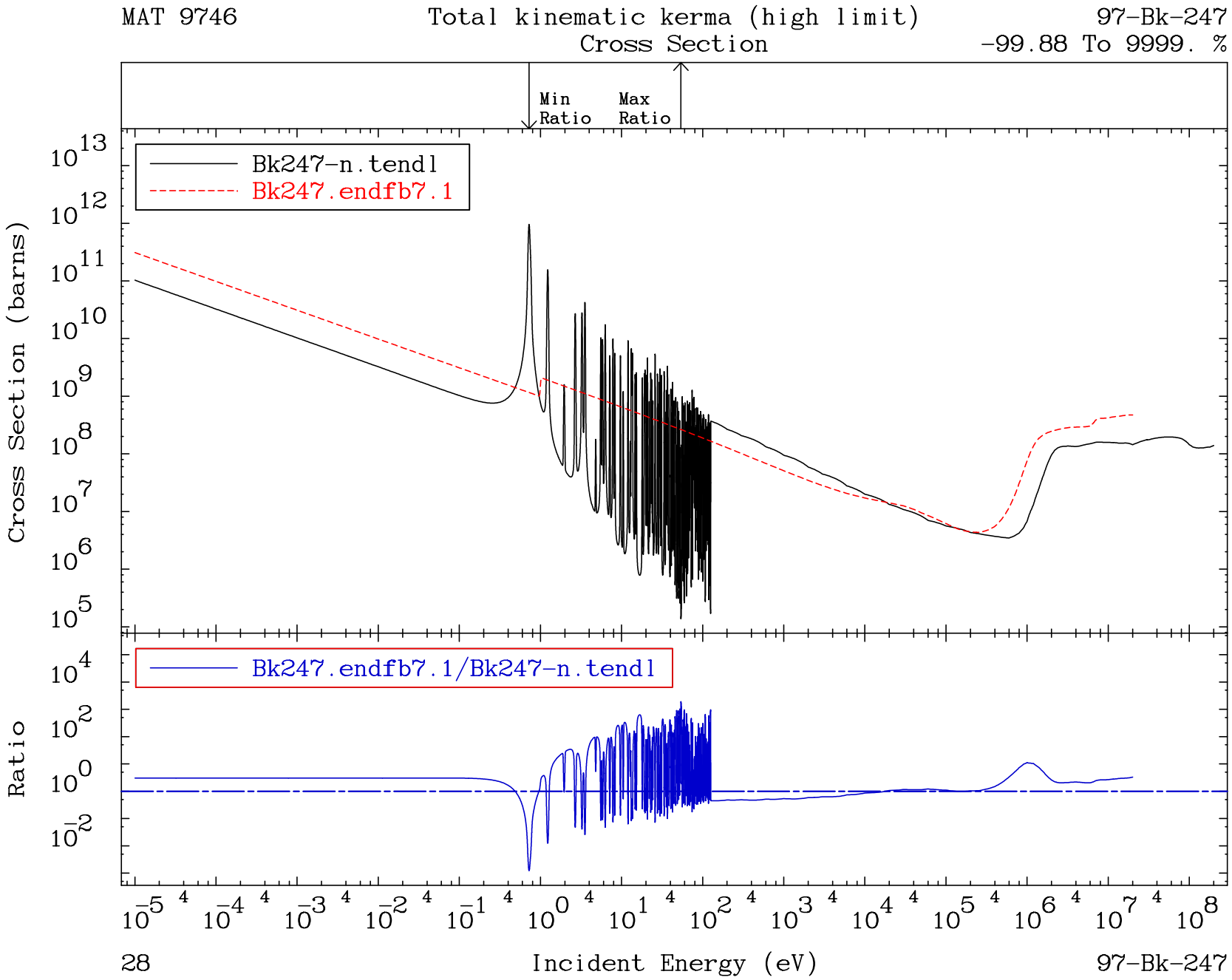

MAT 9746
Kerma non-elastic (all but mt2)
Cross Section
97-Bk-247
-99.88 To 9999. %
Min Ratio
Max Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
23
97-Bk-247

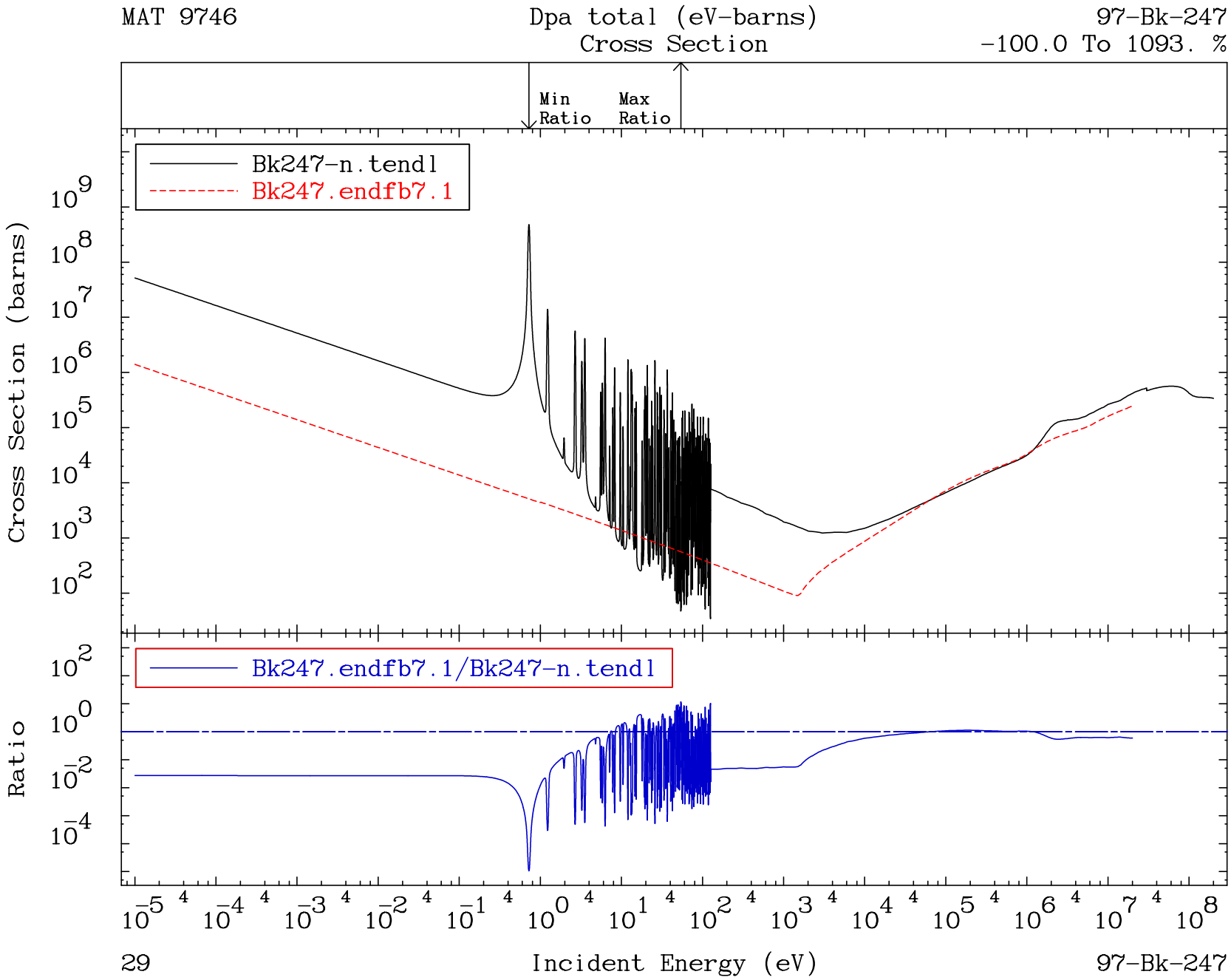

MAT 9746
Kerma inelastic (mt51-91)
Cross Section
97-Bk-247
-38.27 To 136.1 %
Max Ratio
Min Ratio
Bk247-n.tendl Threshold 30.022 keV
Bk247.endfb7.1 Threshold 30.022 keV
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
24
97-Bk-247

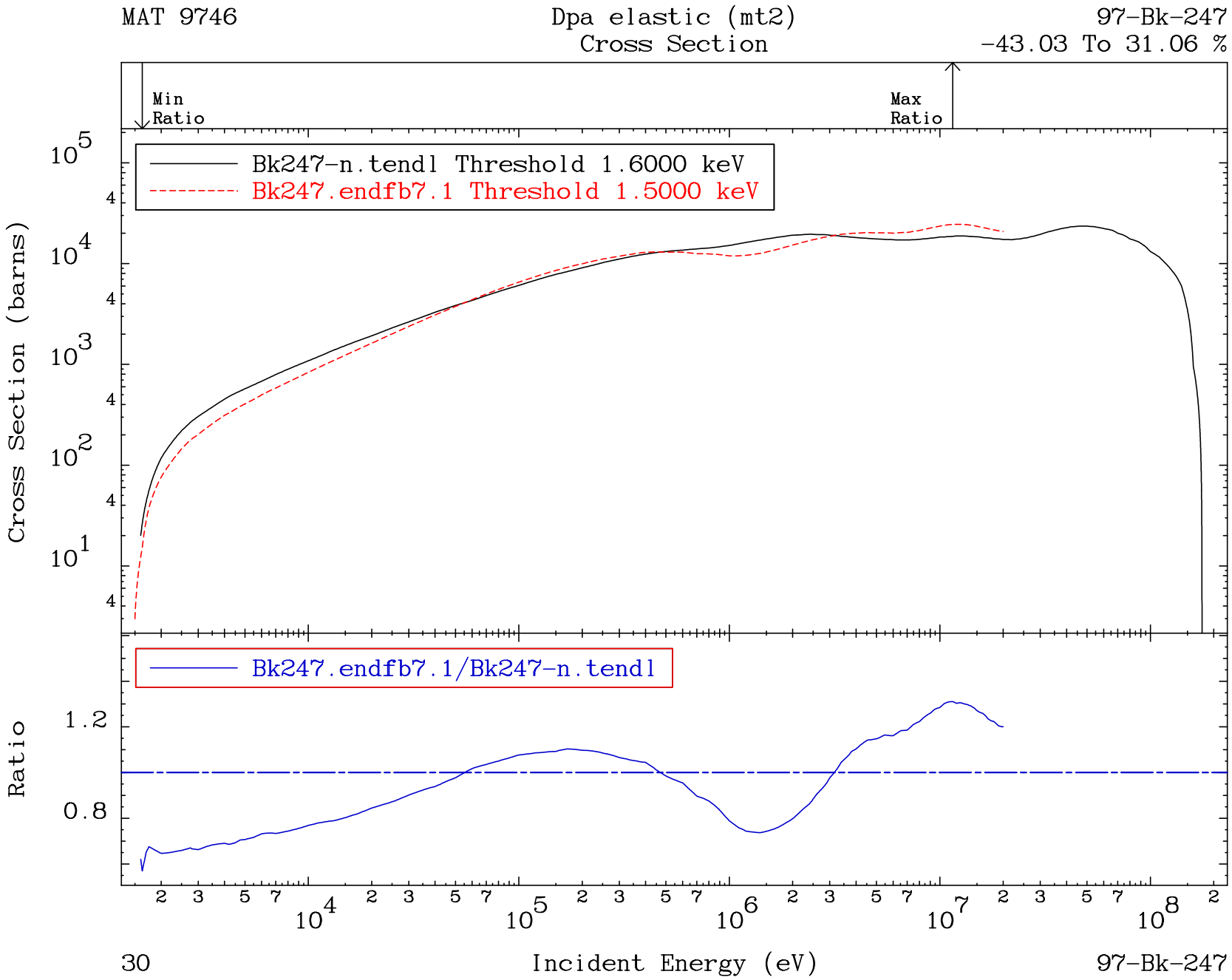

MAT 9746
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
97-Bk-247
-99.99 To 9999. %
Min Ratio
Max Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
25
97-Bk-247

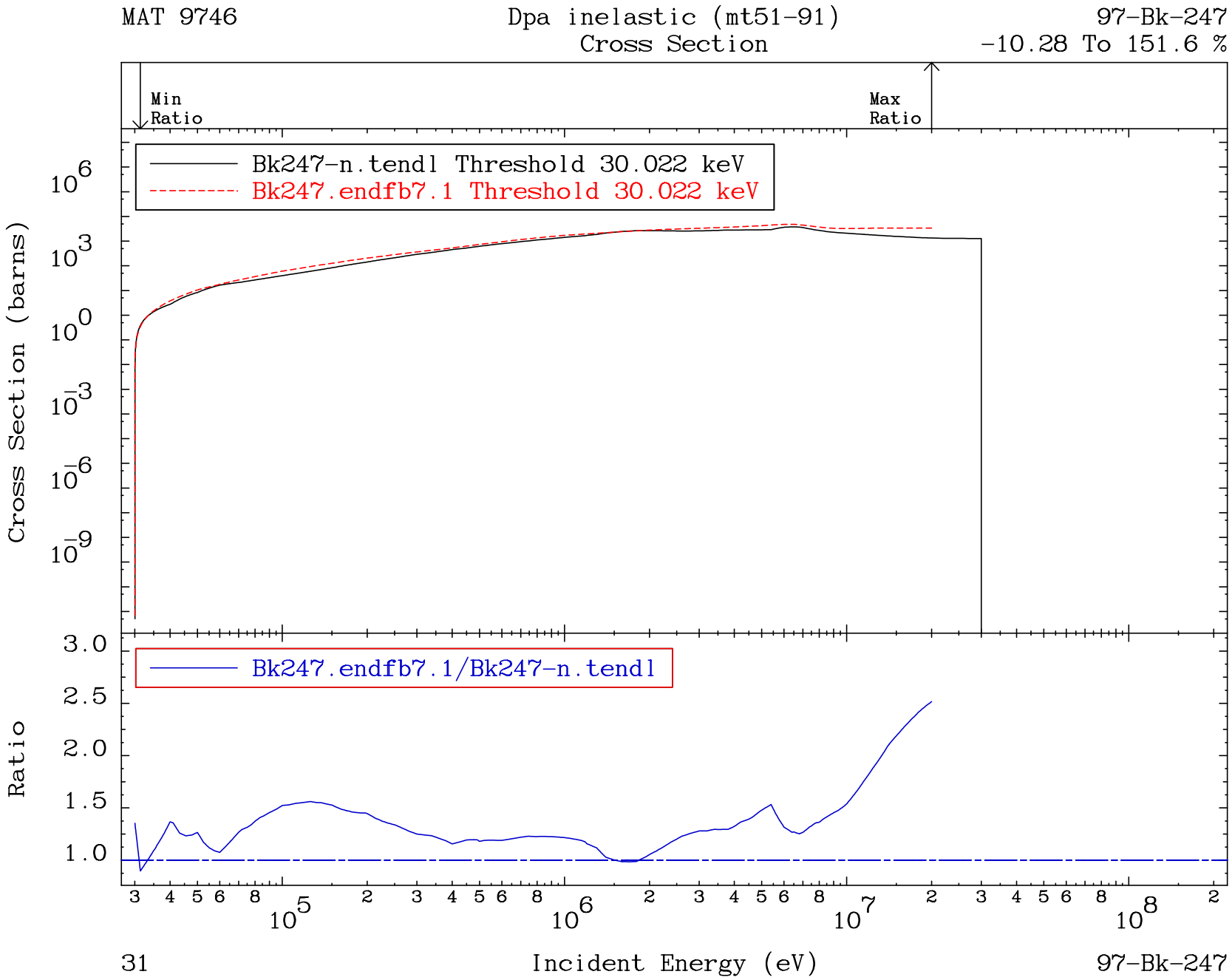

MAT 9746
Kerma capture (mt102)
Cross Section
97-Bk-247
-99.35 To 9999. %
Min Ratio
Max Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
26
97-Bk-247

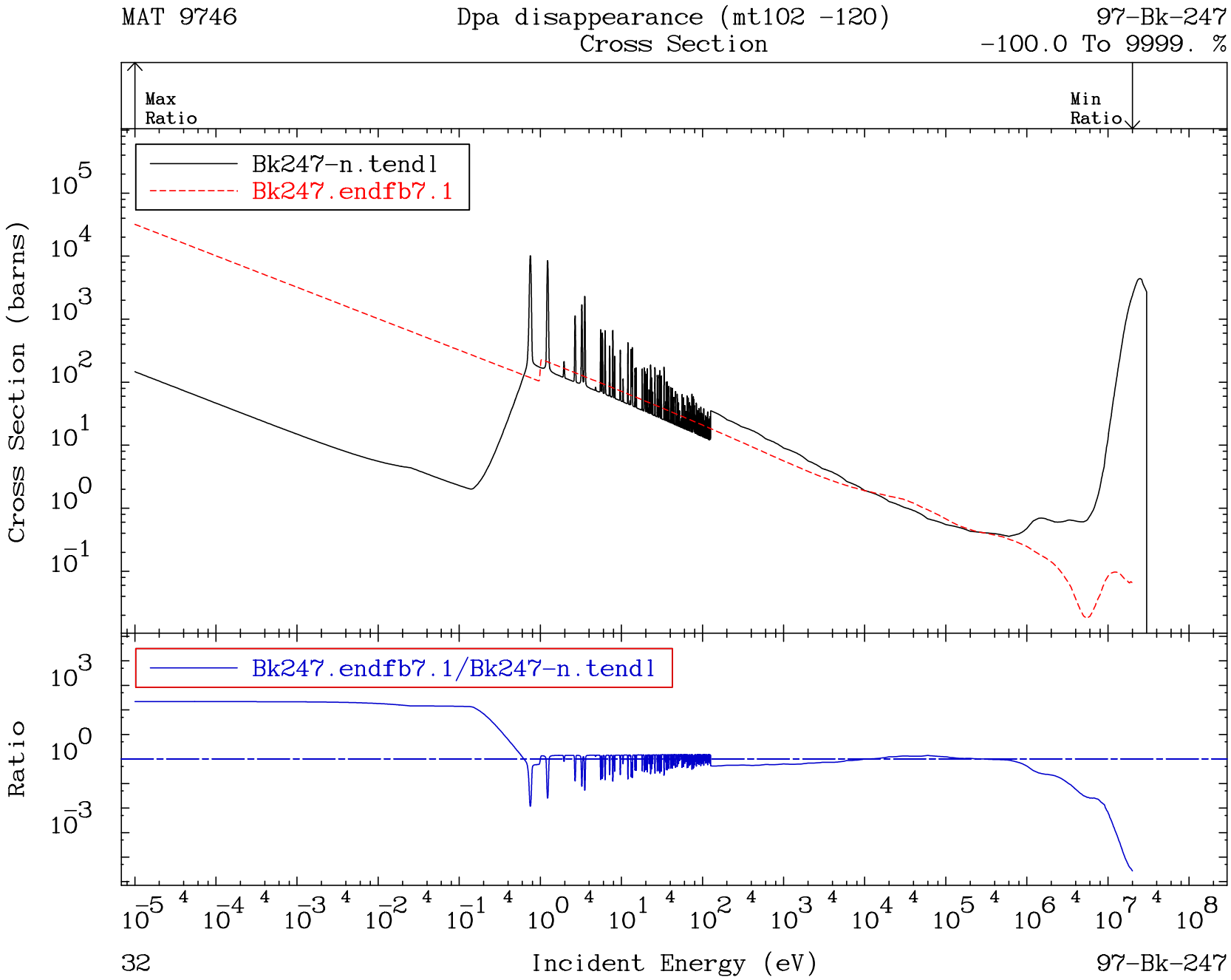

MAT 9746
Total photon (eV-barns)
Cross Section
97-Bk-247
-99.35 To 9999. %
Min Ratio
Max Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
27
97-Bk-247


MAT 9746
Total kinematic kerma (high limit)
Cross Section
97-Bk-247
-99.88 To 9999. %
Min Ratio
Max Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
28
Incident Energy (eV)
97-Bk-247


MAT 9746
Dpa total (eV-barns)
Cross Section
97-Bk-247
-100.0 To 1093. %
Min Ratio
Max Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
29
97-Bk-247


MAT 9746
Dpa elastic (mt2)
Cross Section
97-Bk-247
-43.03 To 31.06 %
Min Ratio
Max Ratio
Bk247-n.tendl Threshold 1.6000 keV
Bk247.endfb7.1 Threshold 1.5000 keV
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
30
97-Bk-247


MAT 9746
Dpa inelastic (mt51-91)
Cross Section
97-Bk-247
-10.28 To 151.6 %
Min Ratio
Max Ratio
Bk247-n.tendl Threshold 30.022 keV
Bk247.endfb7.1 Threshold 30.022 keV
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
31
97-Bk-247


MAT 9746
Dpa disappearance (mt102 -120)
Cross Section
97-Bk-247
-100.0 To 9999. %
Max Ratio
Min Ratio
Bk247-n.tendl
Bk247.endfb7.1
Cross Section (barns)
Bk247.endfb7.1/Bk247-n.tendl
Ratio
Incident Energy (eV)
32
97-Bk-247