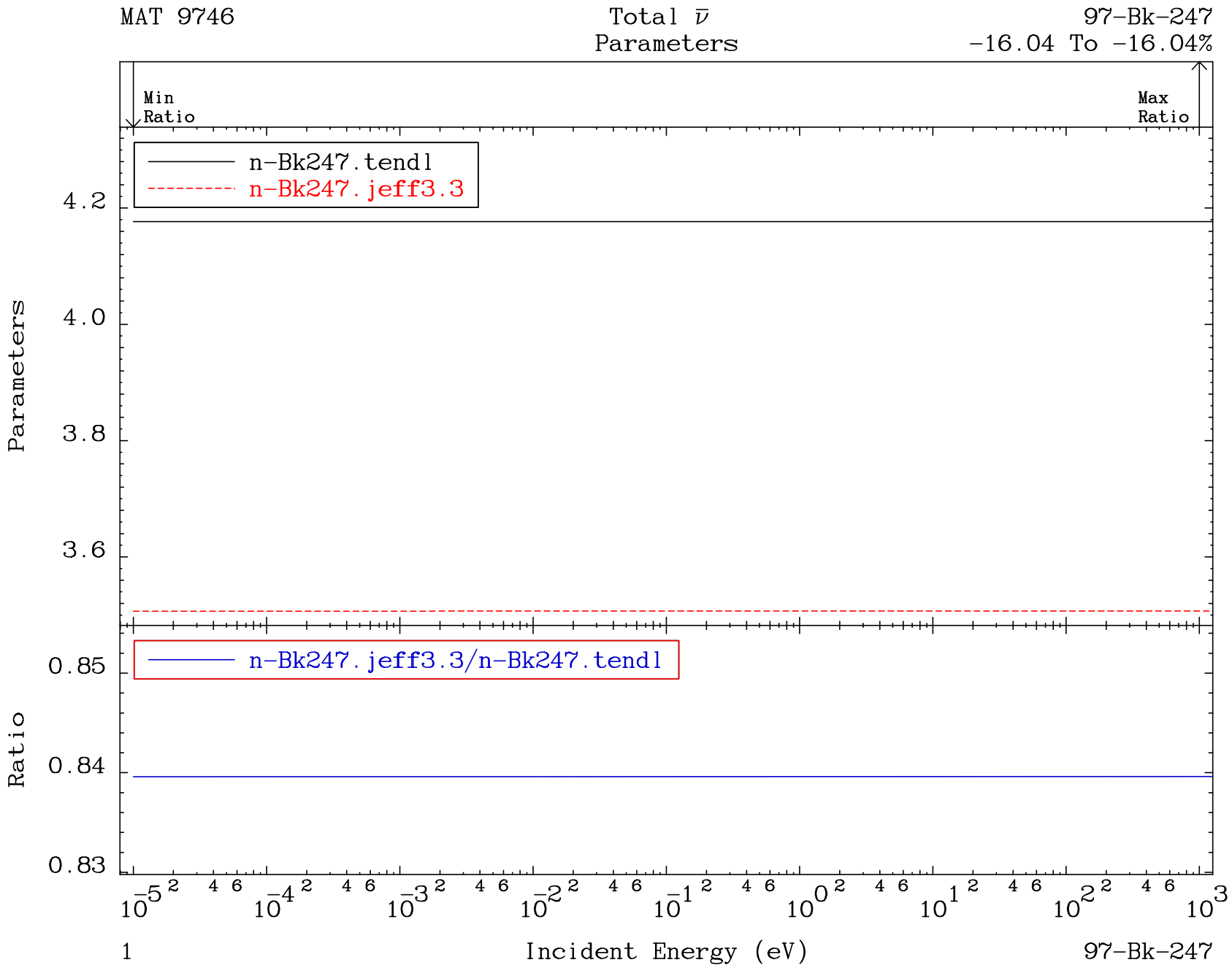
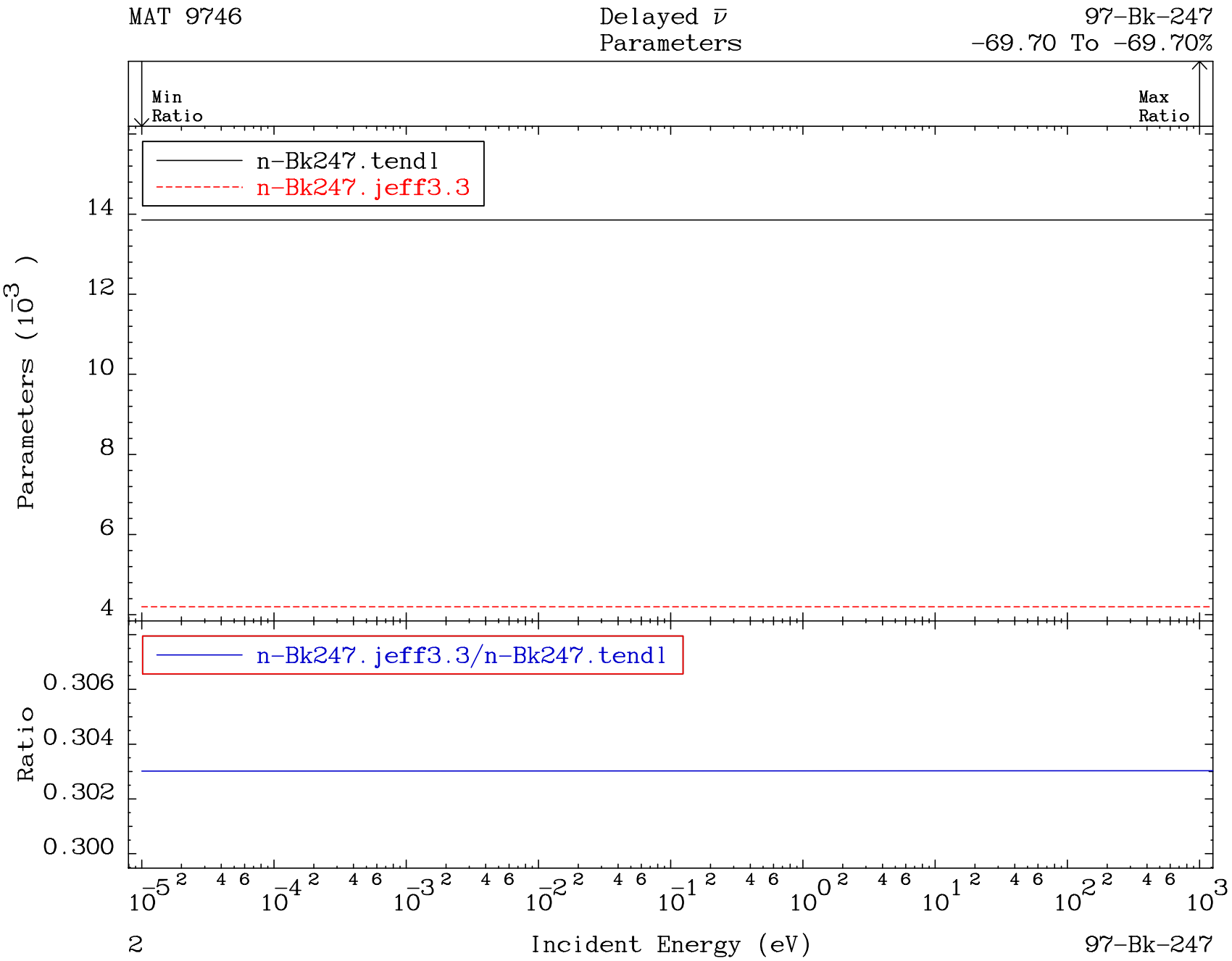
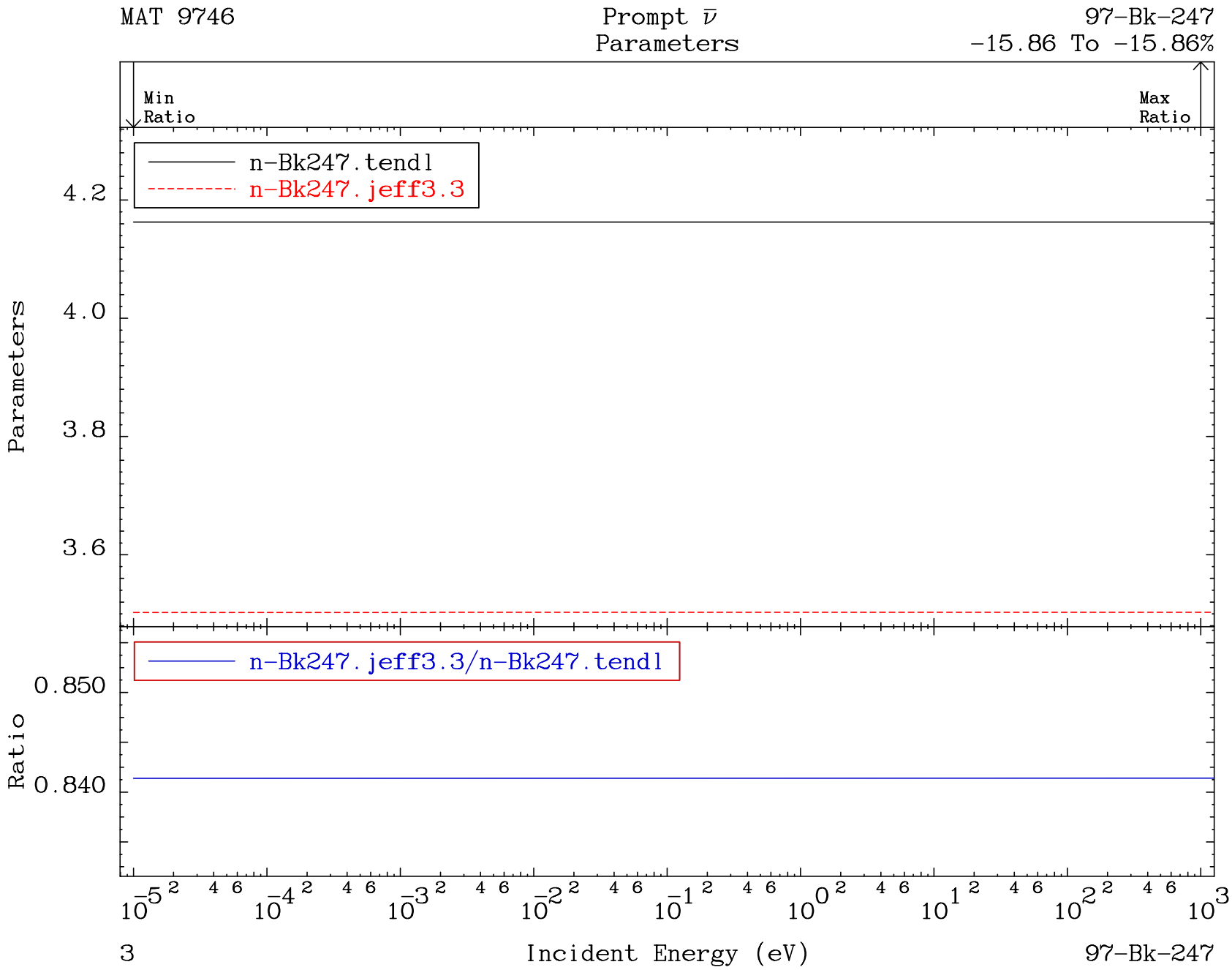
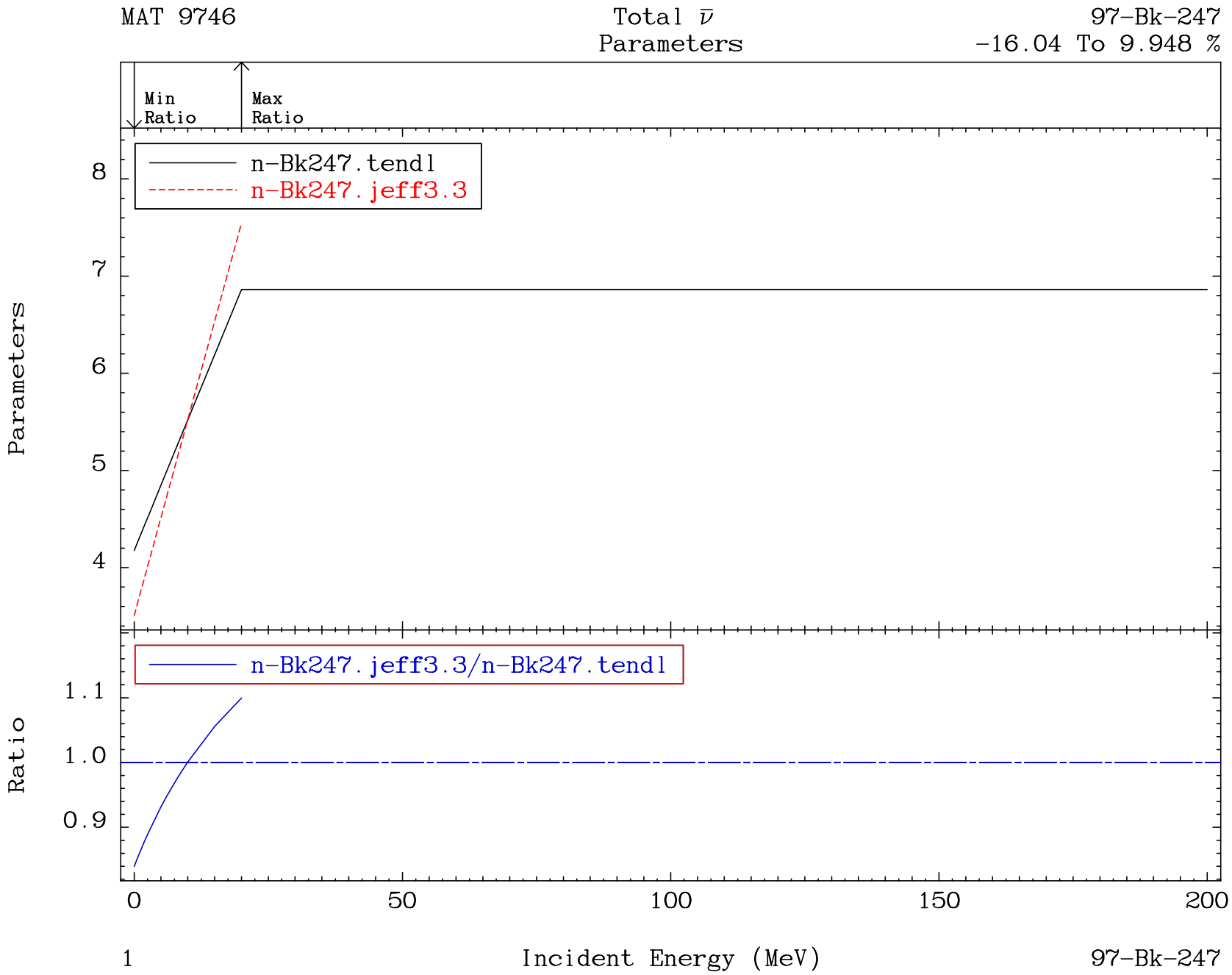
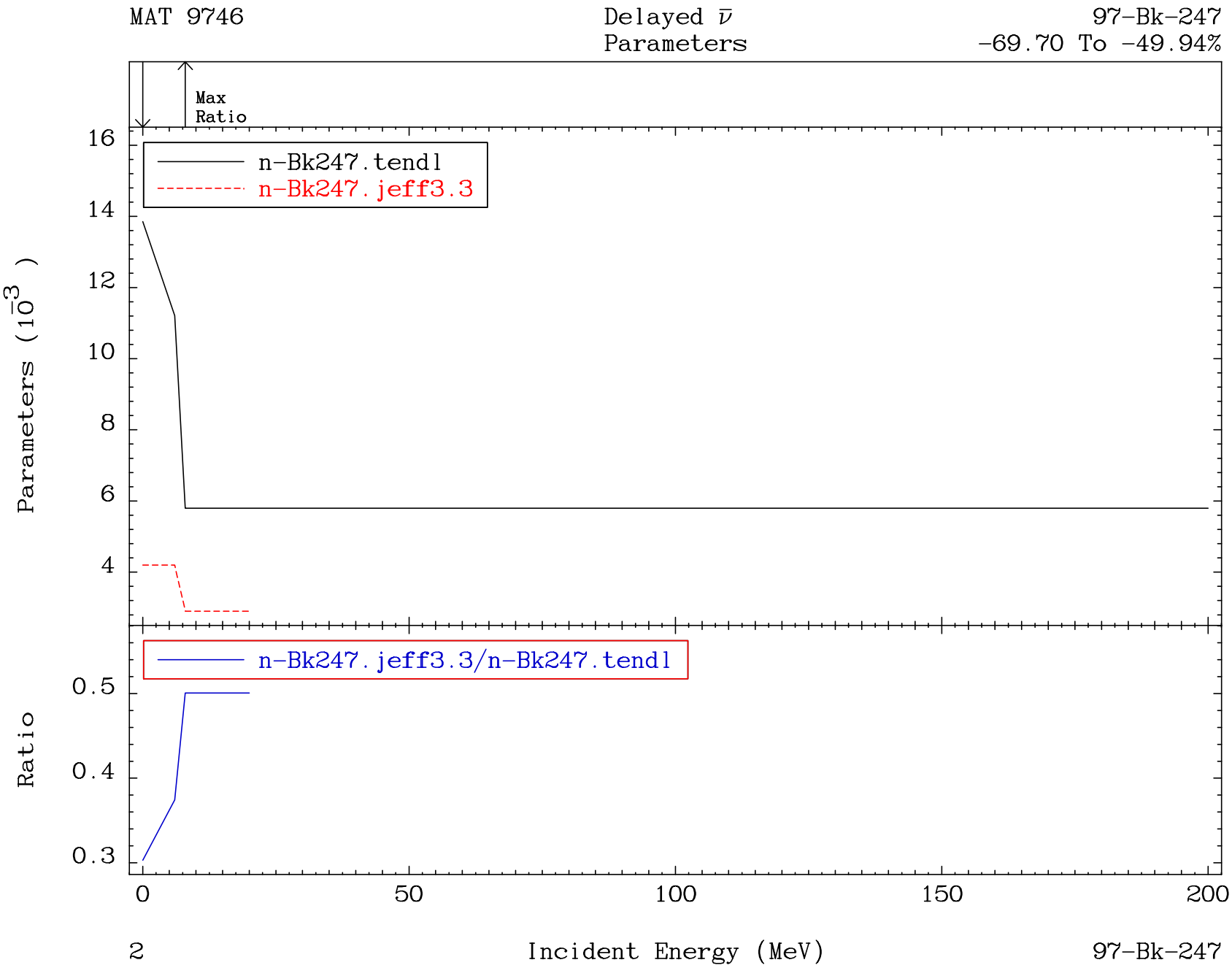
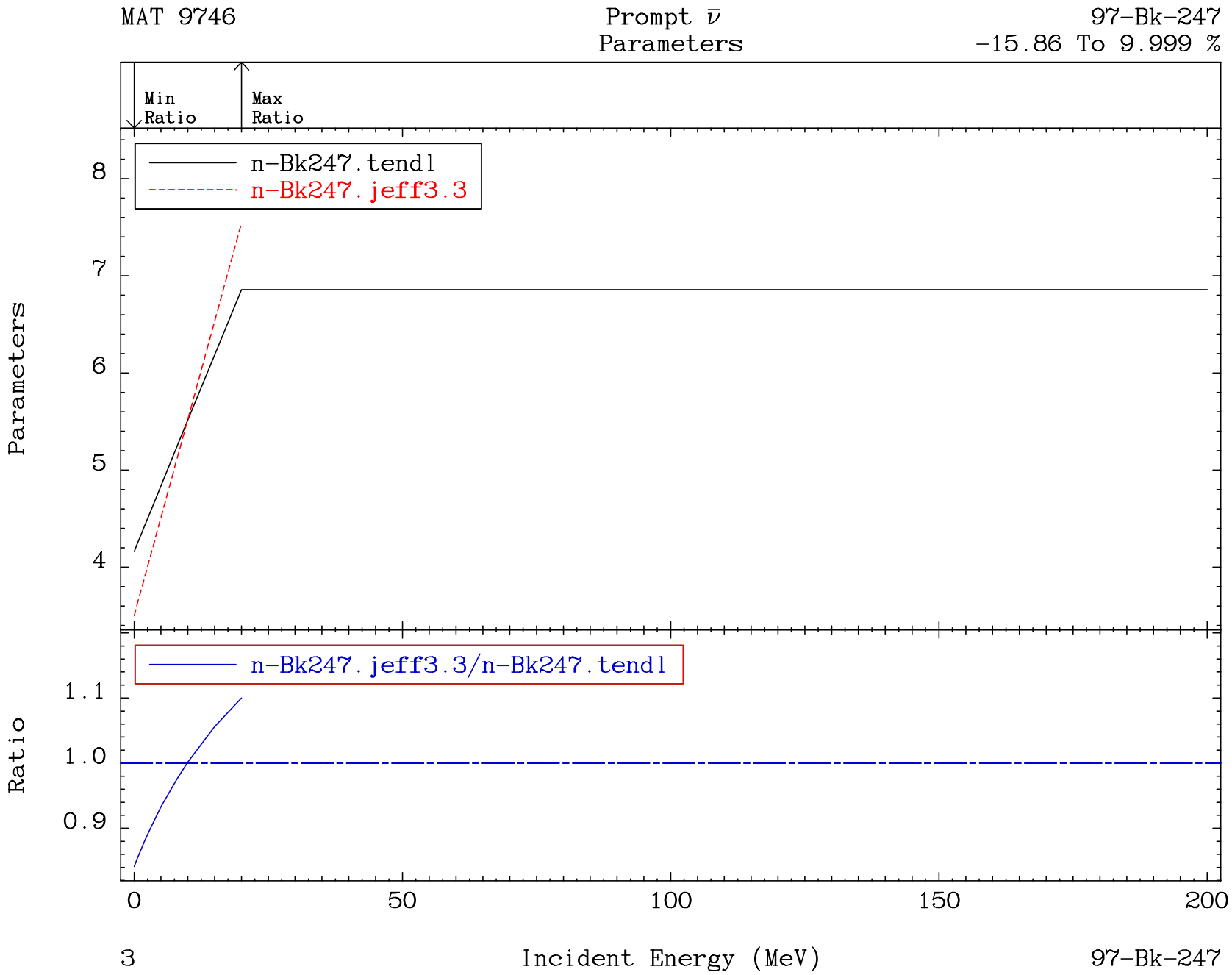

MAT 9746
Total $\bar{\nu}$
Parameters
97-Bk-247
-16.04 To -16.04%
Min Ratio
Max Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
n-Bk247.jeff3.3/n-Bk247.tendl
Parameters
Ratio
4.2
4.0
3.8
3.6
0.85
0.84
0.83
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3}
1
Incident Energy (eV)
97-Bk-247

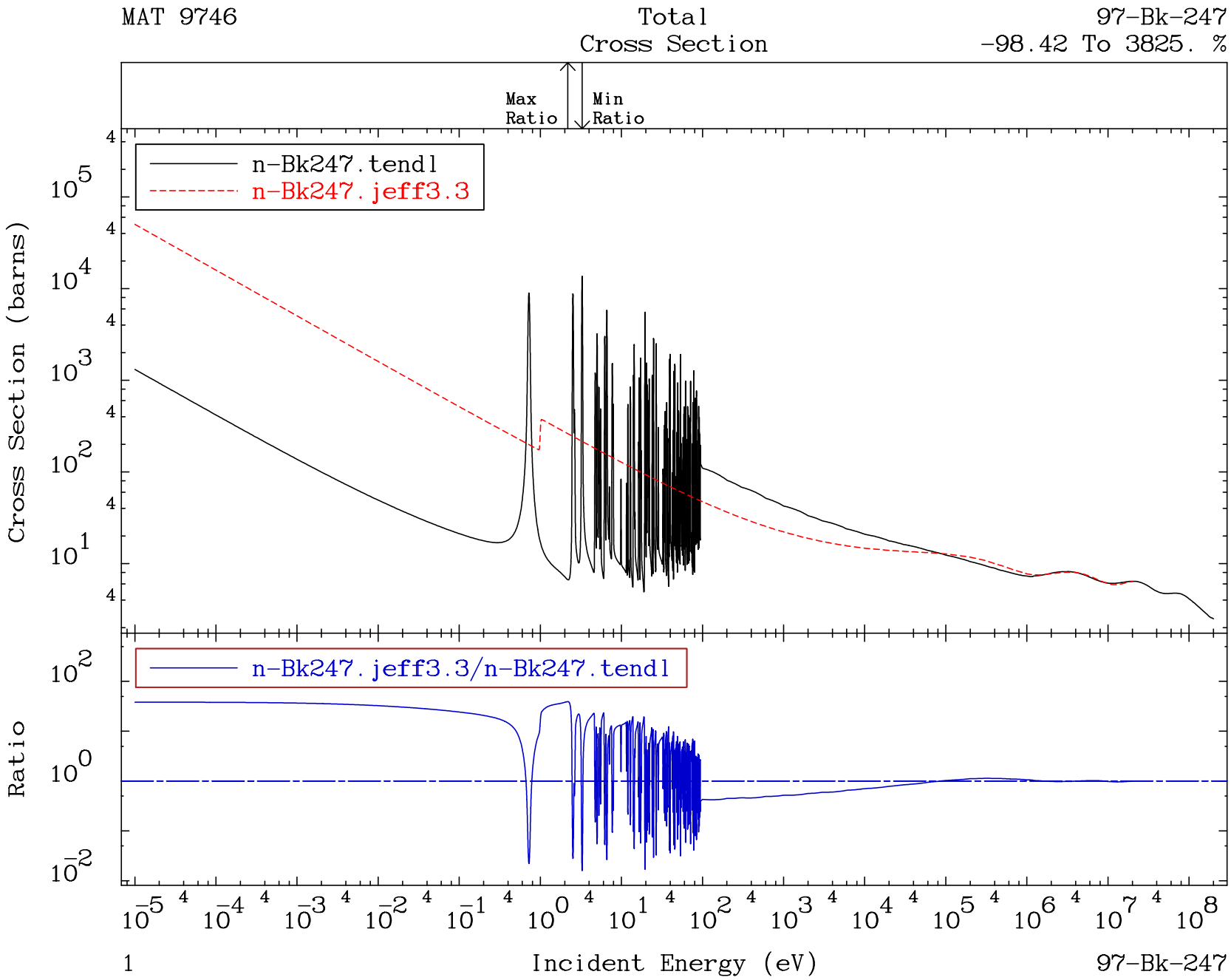

MAT 9746
Delayed $\bar{\nu}$
Parameters
97-Bk-247
-69.70 To -69.70%
Min
Ratio
Max
Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Parameters (10^{-3})
14
12
10
8
6
4
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
0.306
0.304
0.302
0.300
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3}
2
Incident Energy (eV)
97-Bk-247

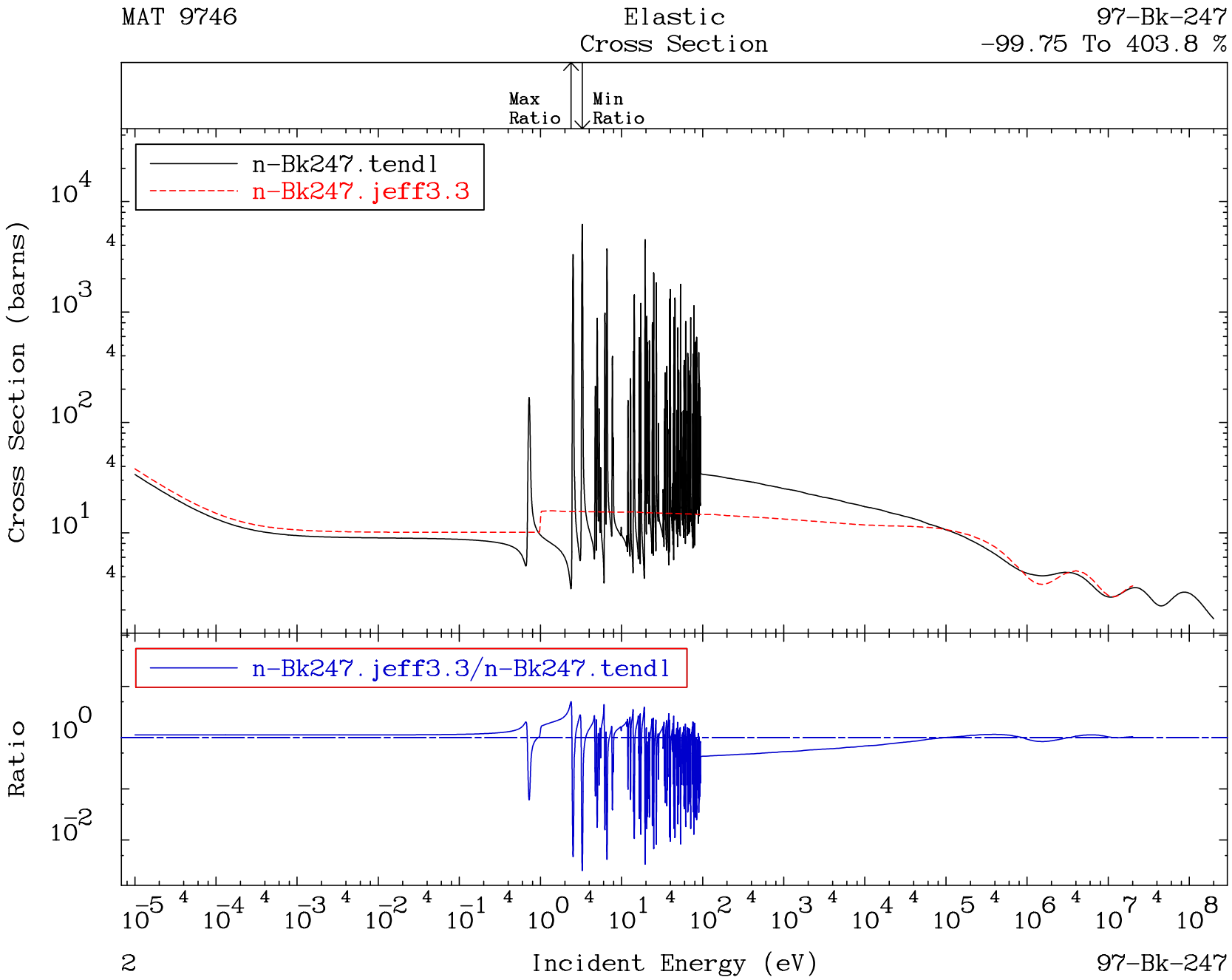

MAT 9746
Prompt $\bar{\nu}$
Parameters
97-Bk-247
-15.86 To -15.86%
Min
Ratio
Max
Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
n-Bk247.jeff3.3/n-Bk247.tendl
Parameters
Ratio
4.2
4.0
3.8
3.6
0.850
0.840
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3}
Incident Energy (eV)
3
97-Bk-247

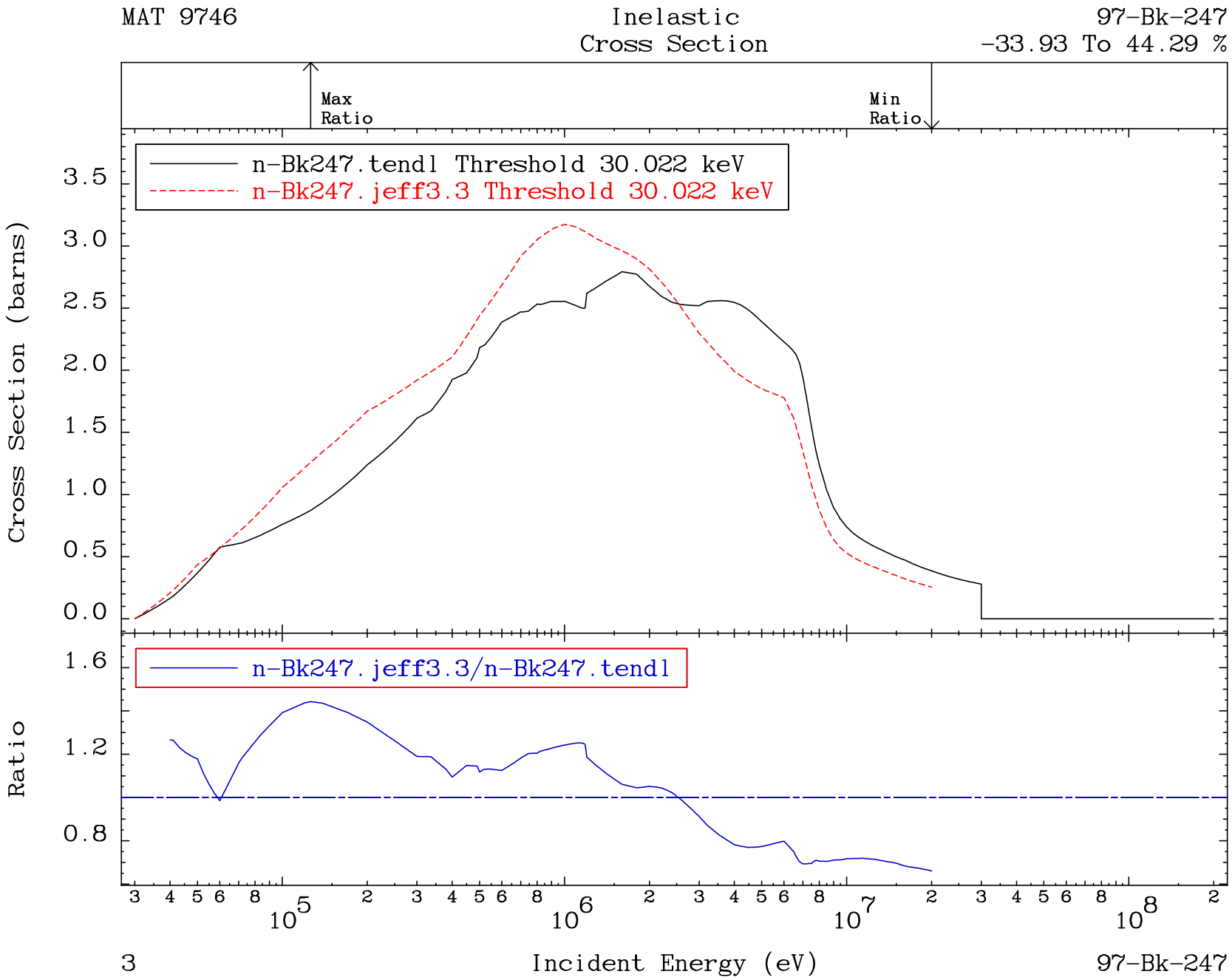

MAT 9746
Total $\bar{\nu}$
Parameters
97-Bk-247
-16.04 To 9.948 %
Min Ratio
Max Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
n-Bk247.jeff3.3/n-Bk247.tendl
Parameters
Ratio
8
7
6
5
4
1.1
1.0
0.9
0
50
100
150
200
Incident Energy (MeV)
1
97-Bk-247

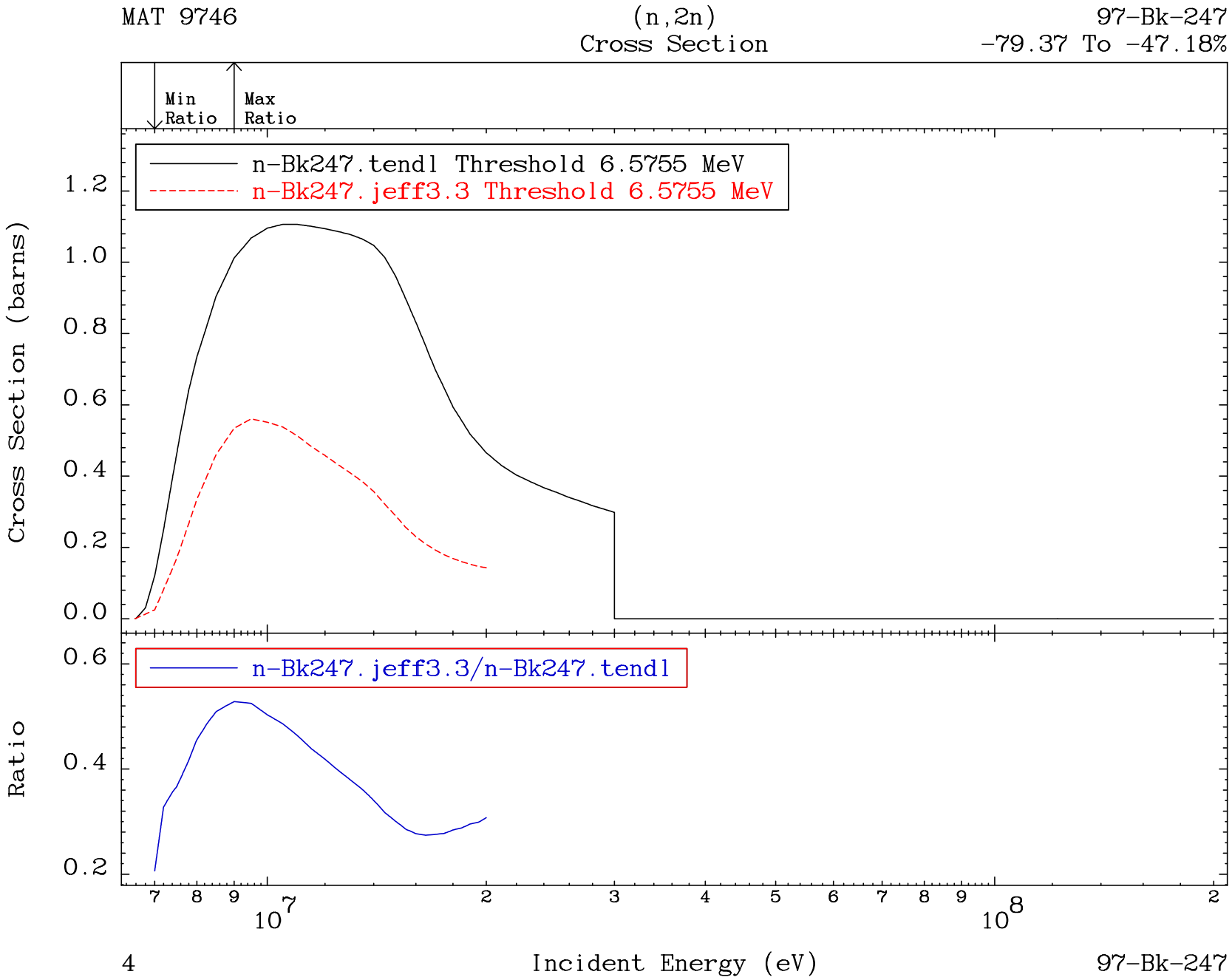

MAT 9746
Delayed $\bar{\nu}$
Parameters
97-Bk-247
-69.70 To -49.94%
Max
Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
n-Bk247.jeff3.3/n-Bk247.tendl
Parameters (10^{-3})
Ratio
Incident Energy (MeV)
16
14
12
10
8
6
4
0.5
0.4
0.3
0
50
100
150
200
2
97-Bk-247

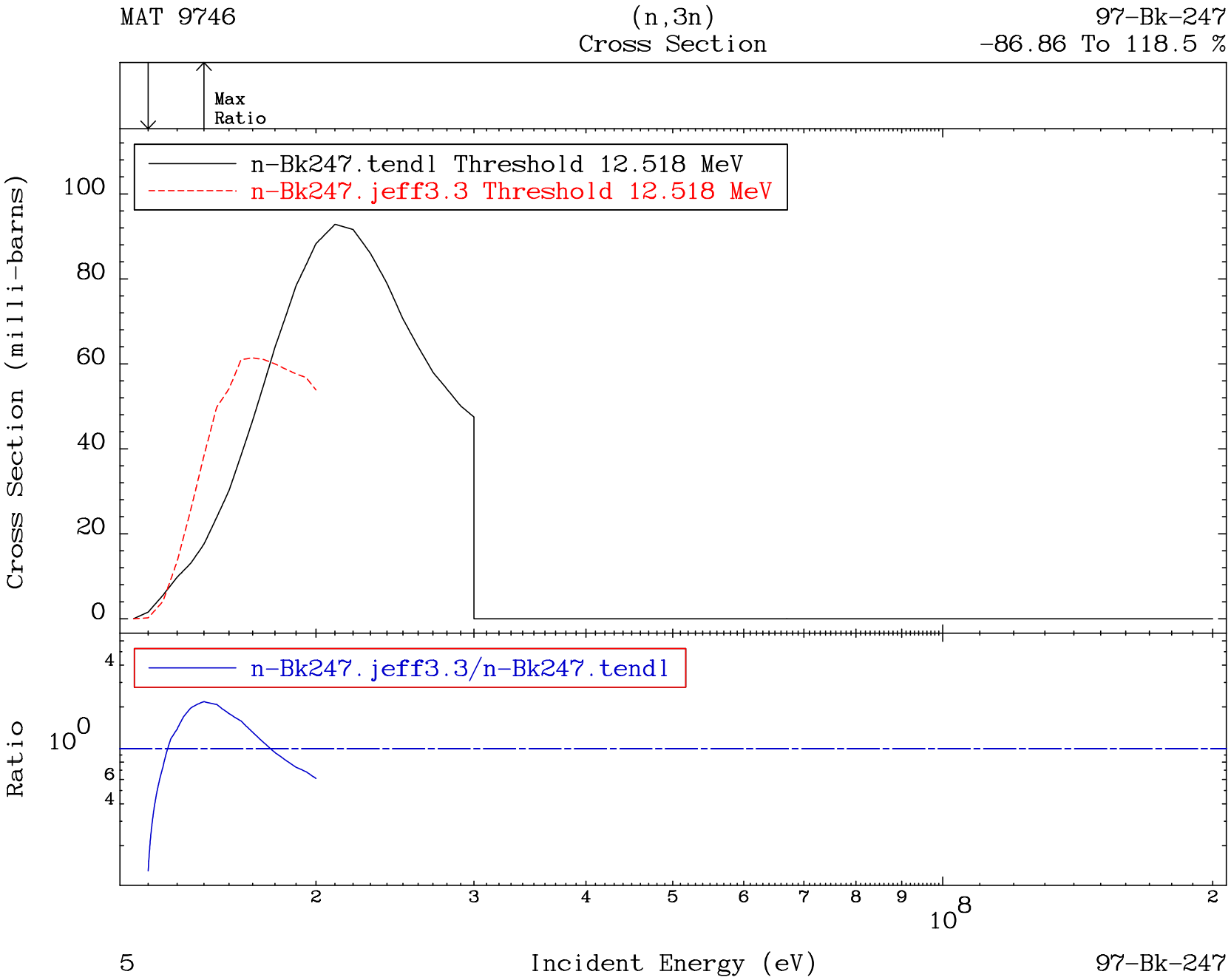

MAT 9746
Prompt $\bar{\nu}$
Parameters
97-Bk-247
-15.86 To 9.999 %
Min Ratio
Max Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
n-Bk247.jeff3.3/n-Bk247.tendl
Parameters
Ratio
8
7
6
5
4
1.1
1.0
0.9
0
50
100
150
200
3
Incident Energy (MeV)
97-Bk-247

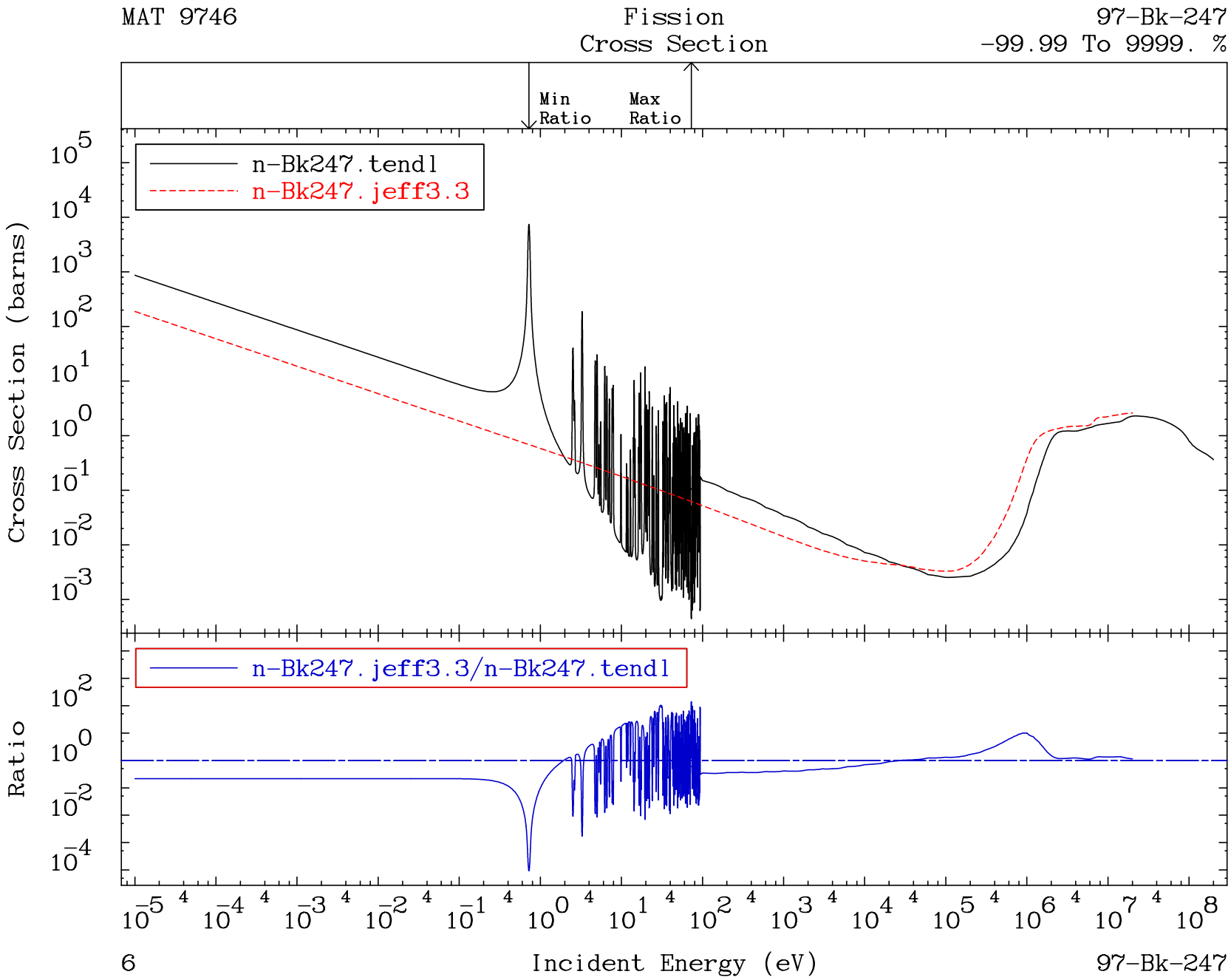

MAT 9746
Total
Cross Section
97-Bk-247
-98.42 To 3825. %
Max
Ratio
Min
Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
1
97-Bk-247

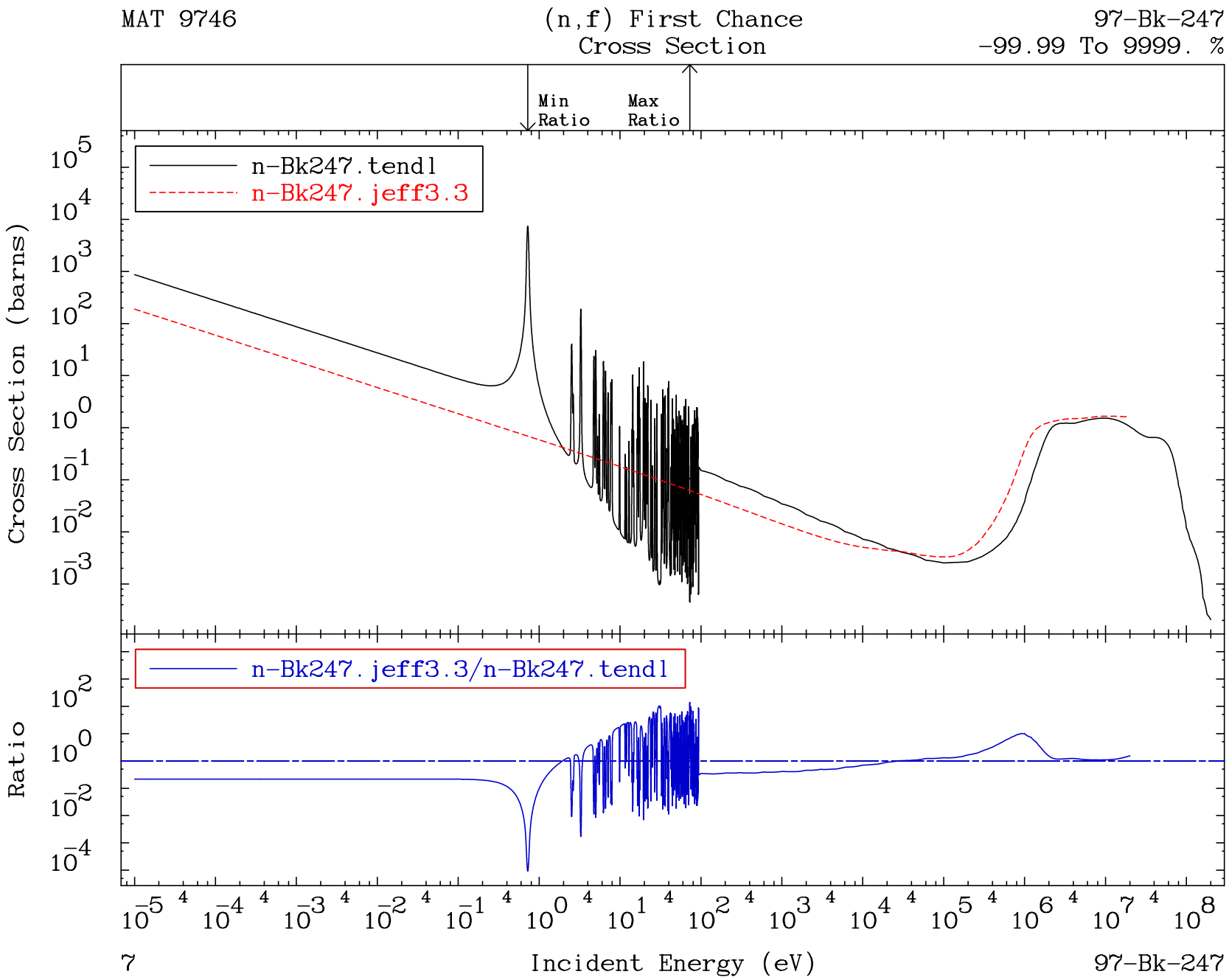

MAT 9746
Elastic
Cross Section
97-Bk-247
-99.75 To 403.8 %
Max
Ratio
Min
Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
2
97-Bk-247

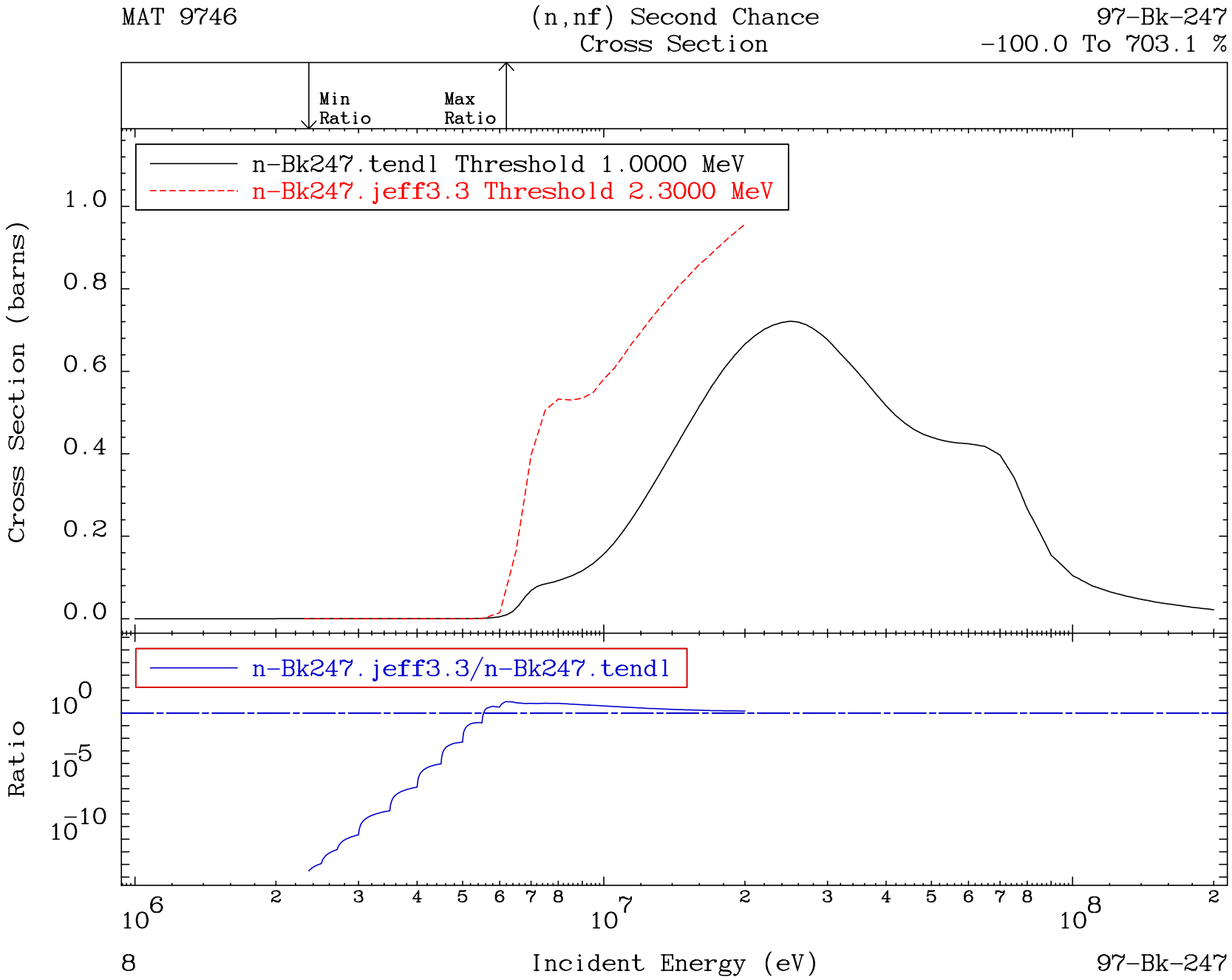

MAT 9746
Inelastic
Cross Section
97-Bk-247
-33.93 To 44.29 %
Max
Ratio
Min
Ratio
n-Bk247.tendl Threshold 30.022 keV
n-Bk247.jeff3.3 Threshold 30.022 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
1.6
1.2
0.8
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
97-Bk-247

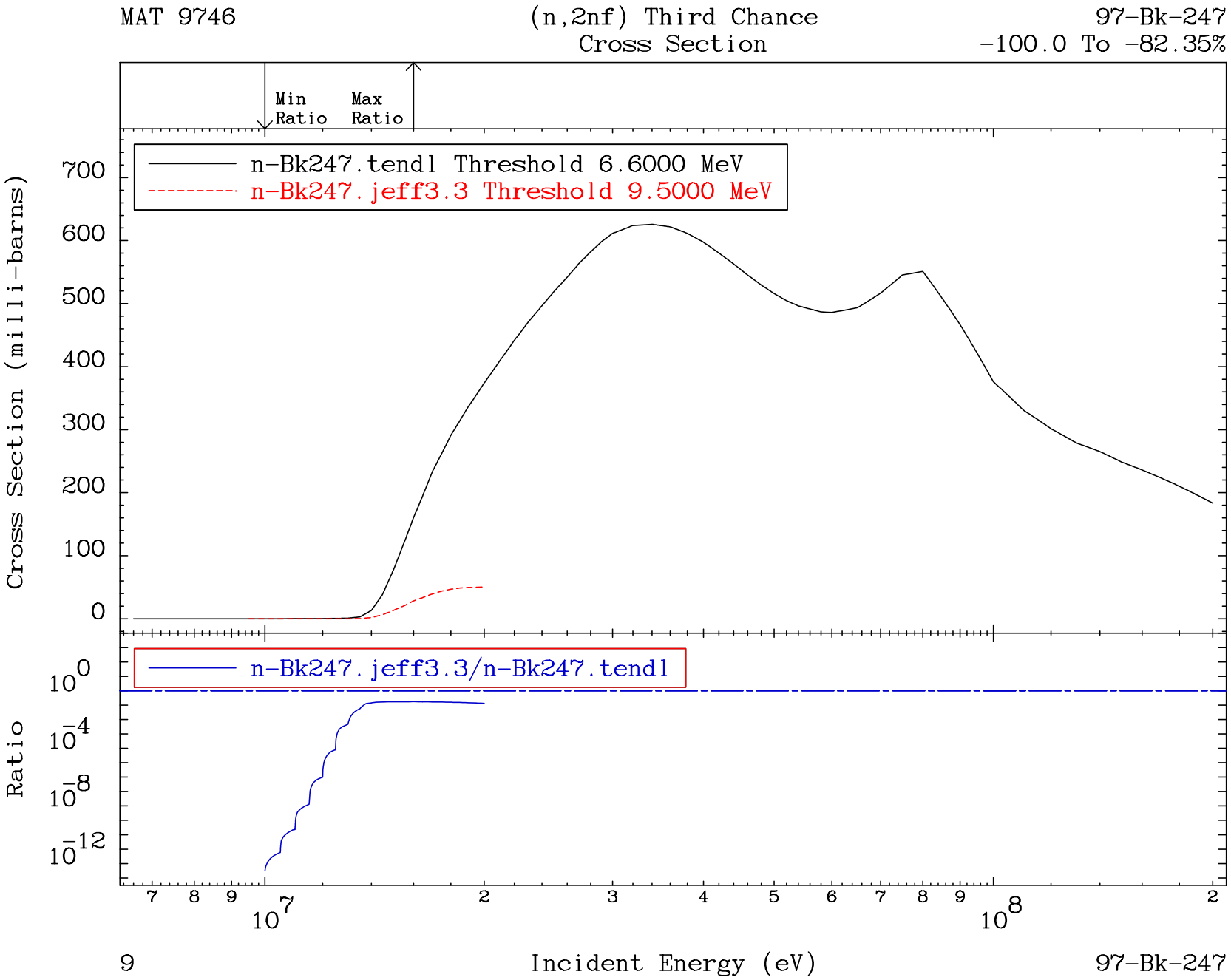

MAT 9746
(n,2n)
Cross Section
97-Bk-247
-79.37 To -47.18%
Min Ratio
Max Ratio
n-Bk247.tendl Threshold 6.5755 MeV
n-Bk247.jeff3.3 Threshold 6.5755 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
0.6
0.4
0.2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
97-Bk-247

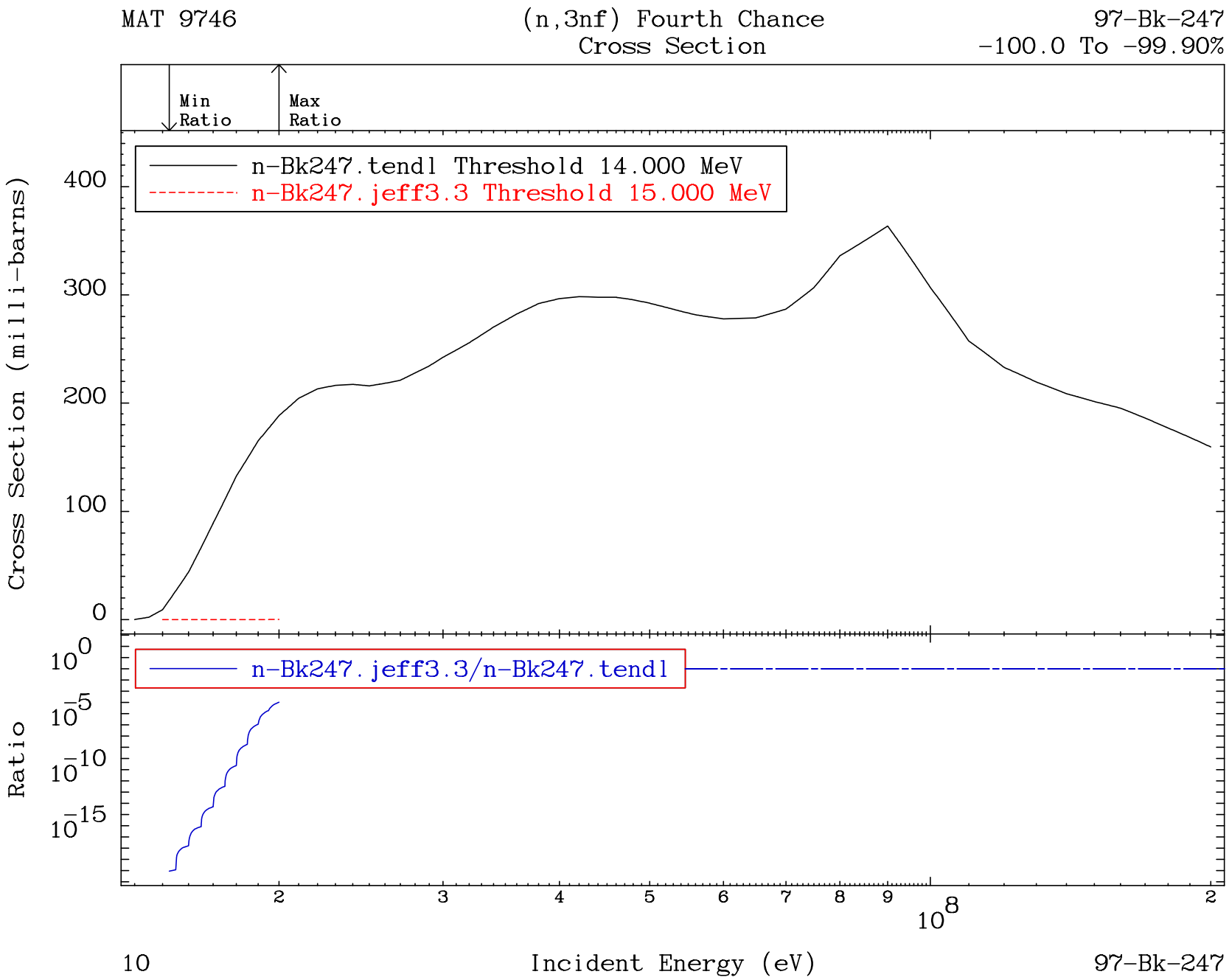

MAT 9746
(n,3n)
Cross Section
97-Bk-247
-86.86 To 118.5 %
Max
Ratio
n-Bk247.tendl Threshold 12.518 MeV
n-Bk247.jeff3.3 Threshold 12.518 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
4
10^0
6
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
97-Bk-247

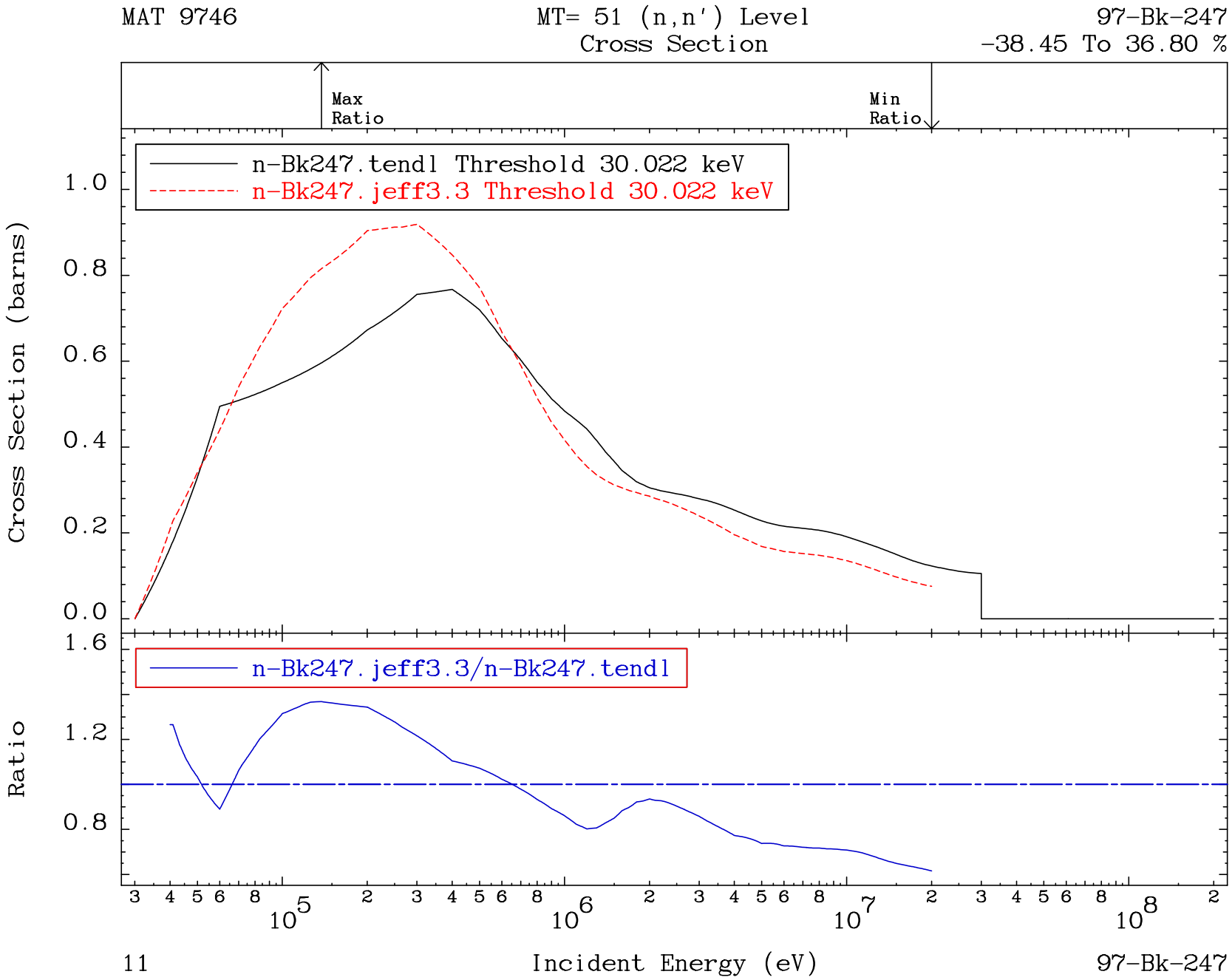

MAT 9746
Fission
Cross Section
97-Bk-247
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
6
97-Bk-247

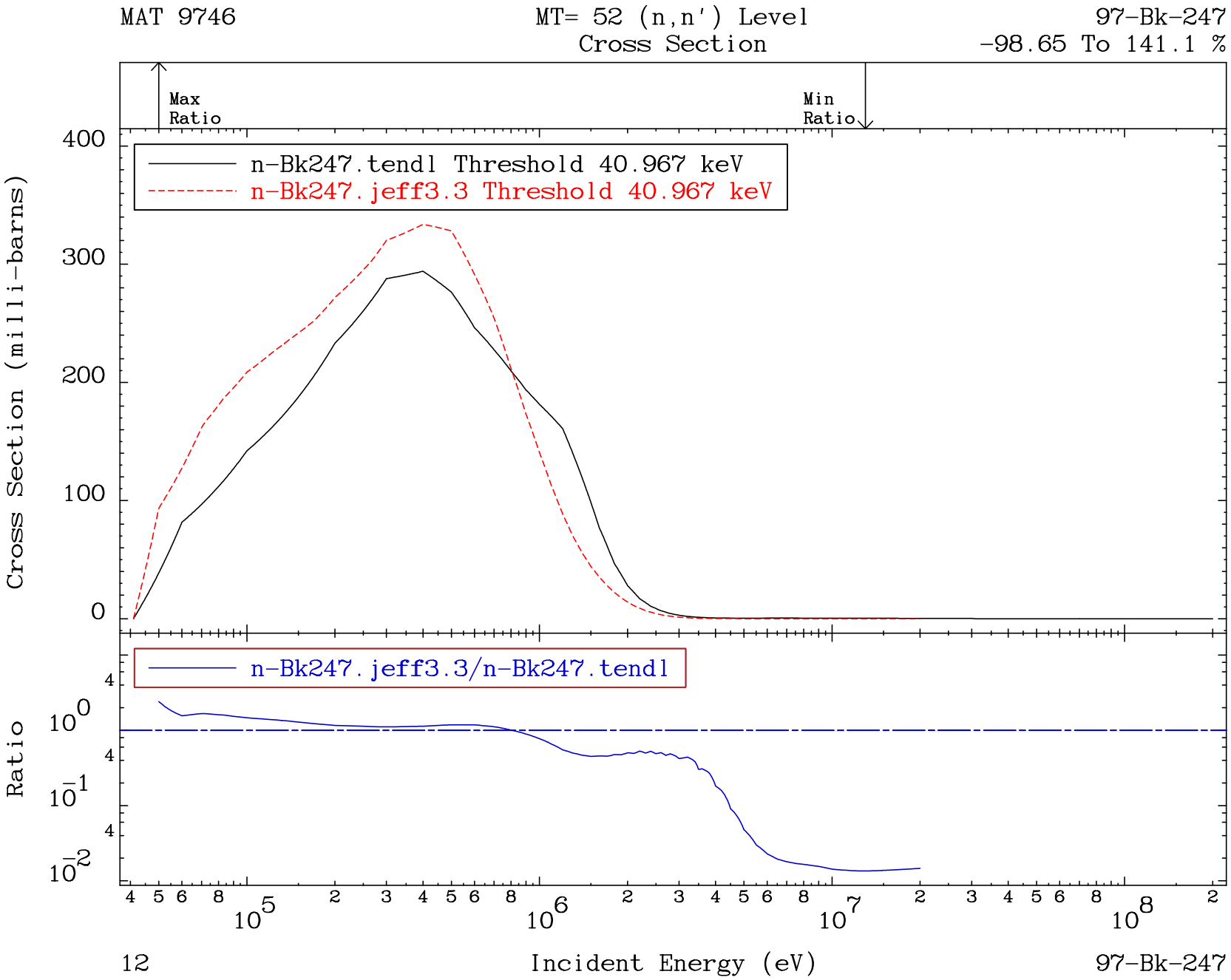

MAT 9746
(n,f) First Chance
Cross Section
97-Bk-247
-99.99 To 9999. %
Min
Ratio
Max
Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
7
97-Bk-247

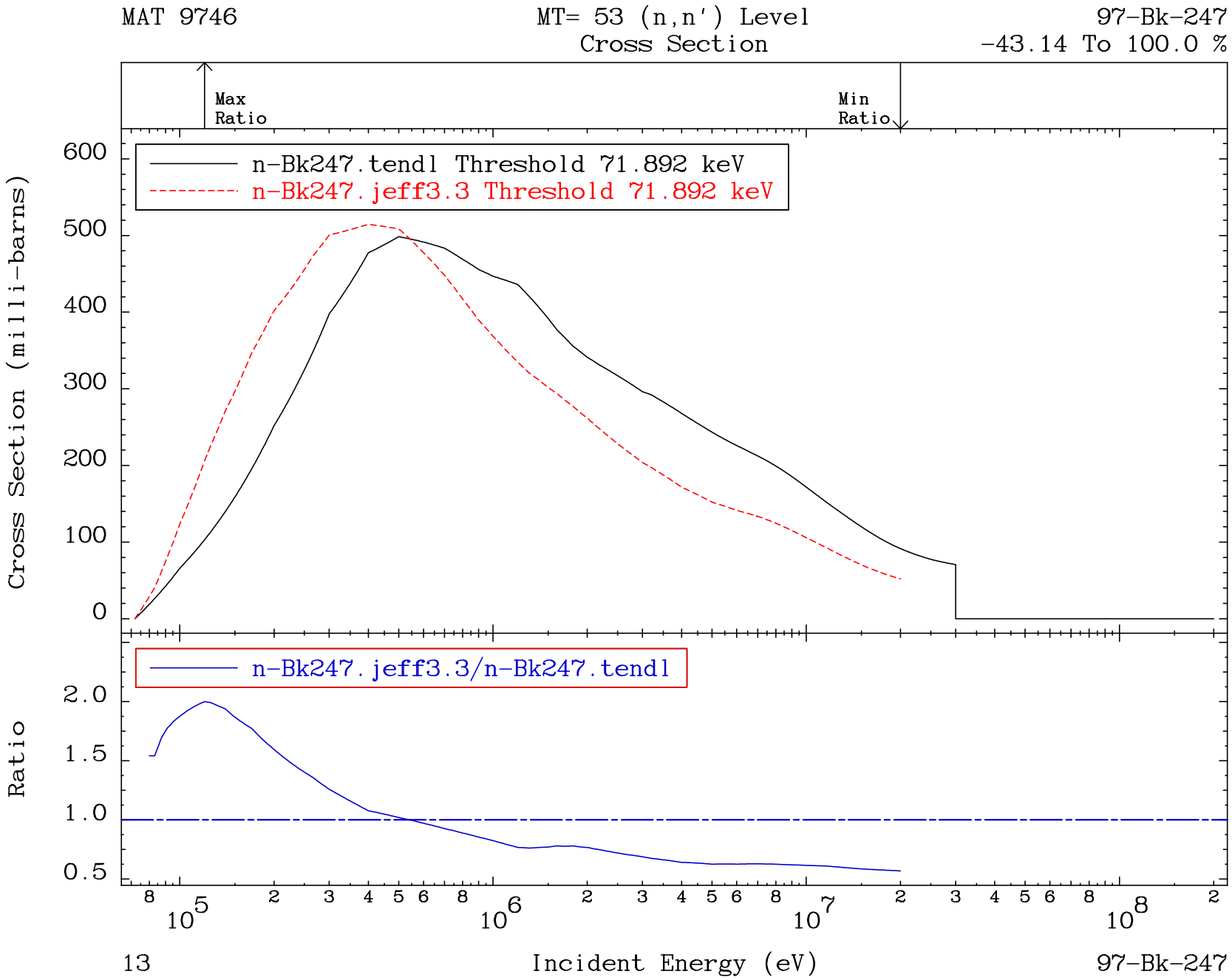

MAT 9746
(n,nf) Second Chance
Cross Section
97-Bk-247
-100.0 To 703.1 %
Min
Ratio
Max
Ratio
n-Bk247.tendl Threshold 1.0000 MeV
n-Bk247.jeff3.3 Threshold 2.3000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
10^0
10^-5
10^-10
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
8
Incident Energy (eV)
97-Bk-247

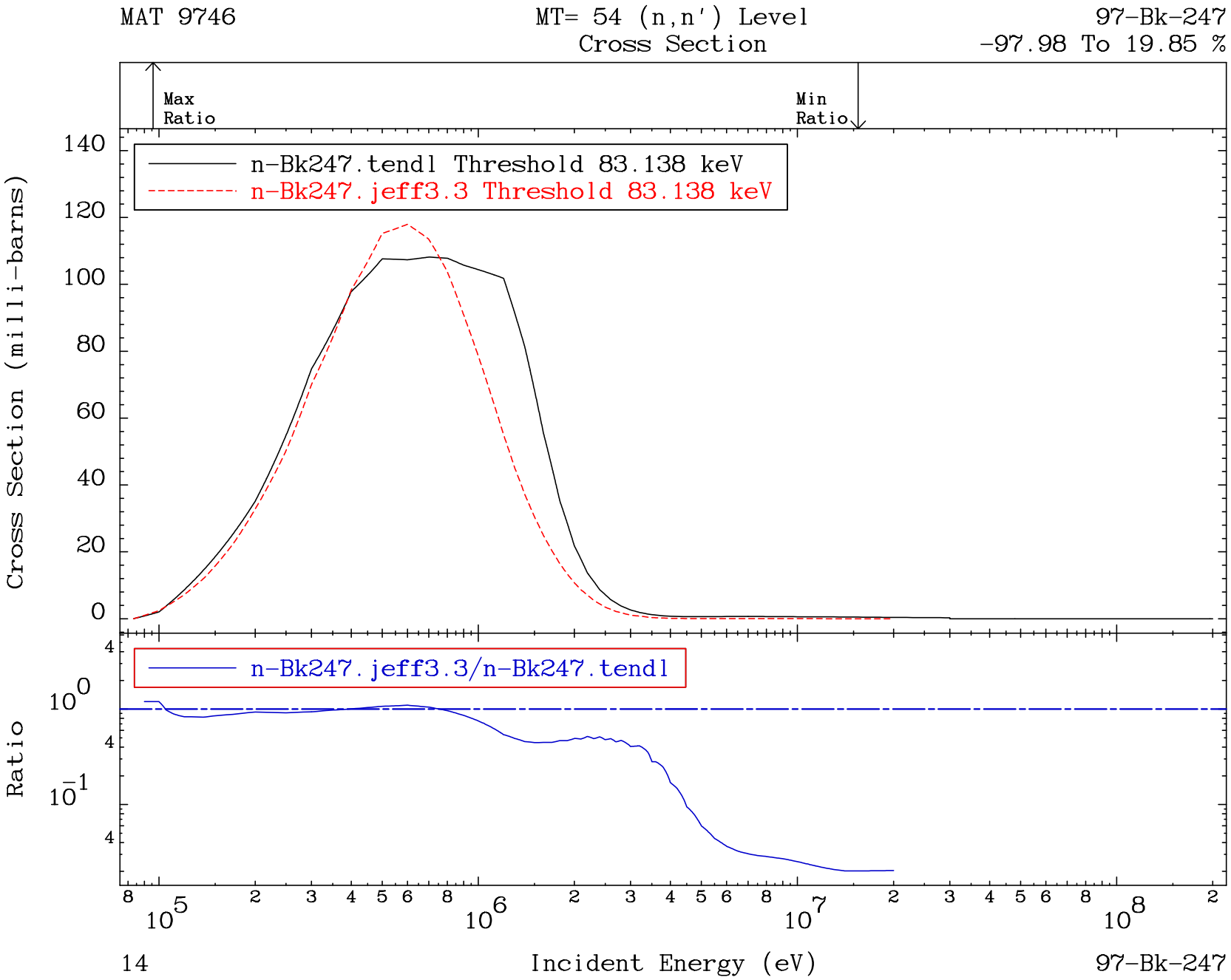

MAT 9746
(n,2nf) Third Chance
Cross Section
97-Bk-247
-100.0 To -82.35%
Min Ratio
Max Ratio
n-Bk247.tendl Threshold 6.6000 MeV
n-Bk247.jeff3.3 Threshold 9.5000 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
10^0
10^-4
10^-8
10^-12
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
97-Bk-247

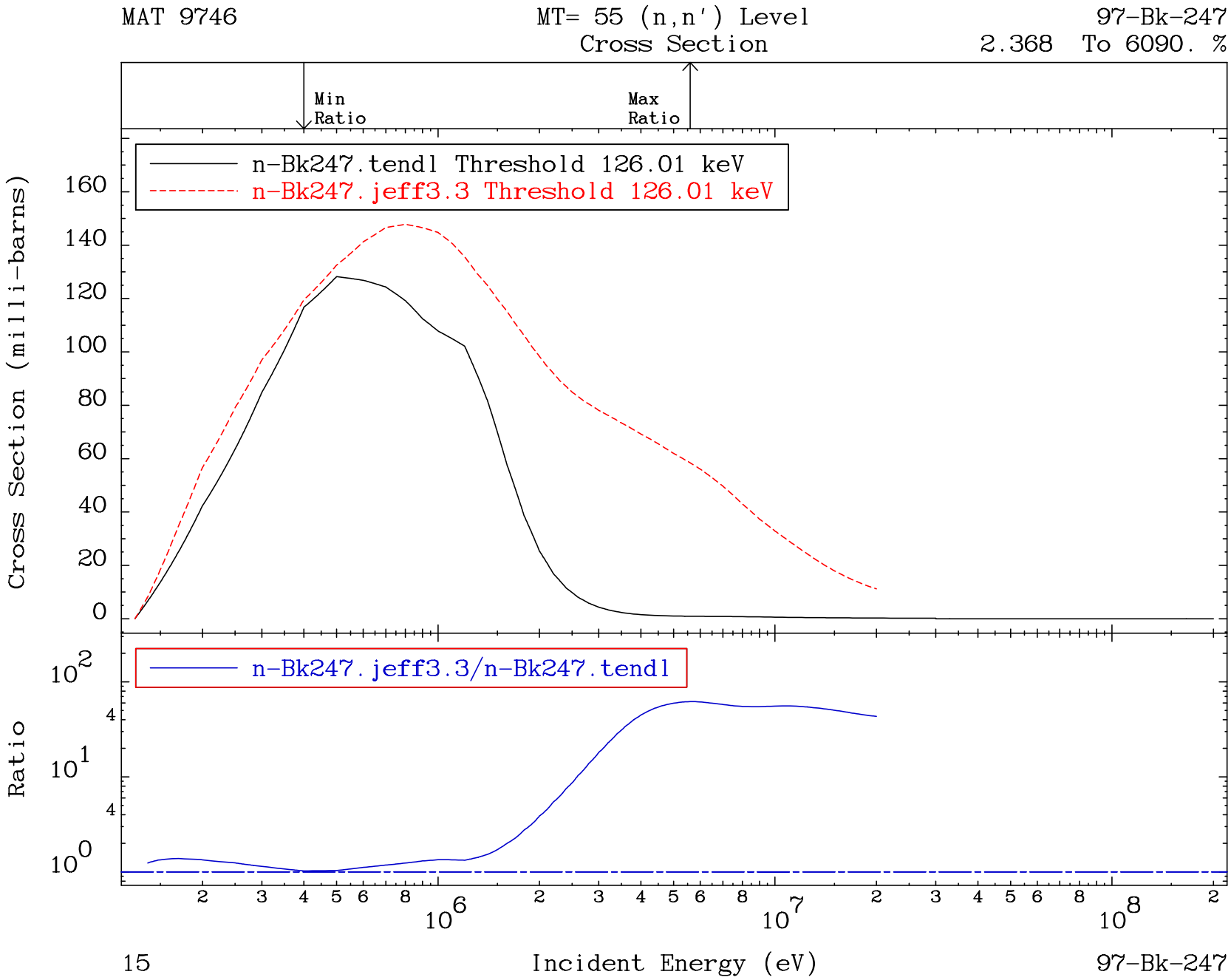

MAT 9746
(n,3nf) Fourth Chance
Cross Section
97-Bk-247
-100.0 To -99.90%
Min
Ratio
Max
Ratio
n-Bk247.tendl Threshold 14.000 MeV
n-Bk247.jeff3.3 Threshold 15.000 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
10^0
10^-5
10^-10
10^-15
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
97-Bk-247

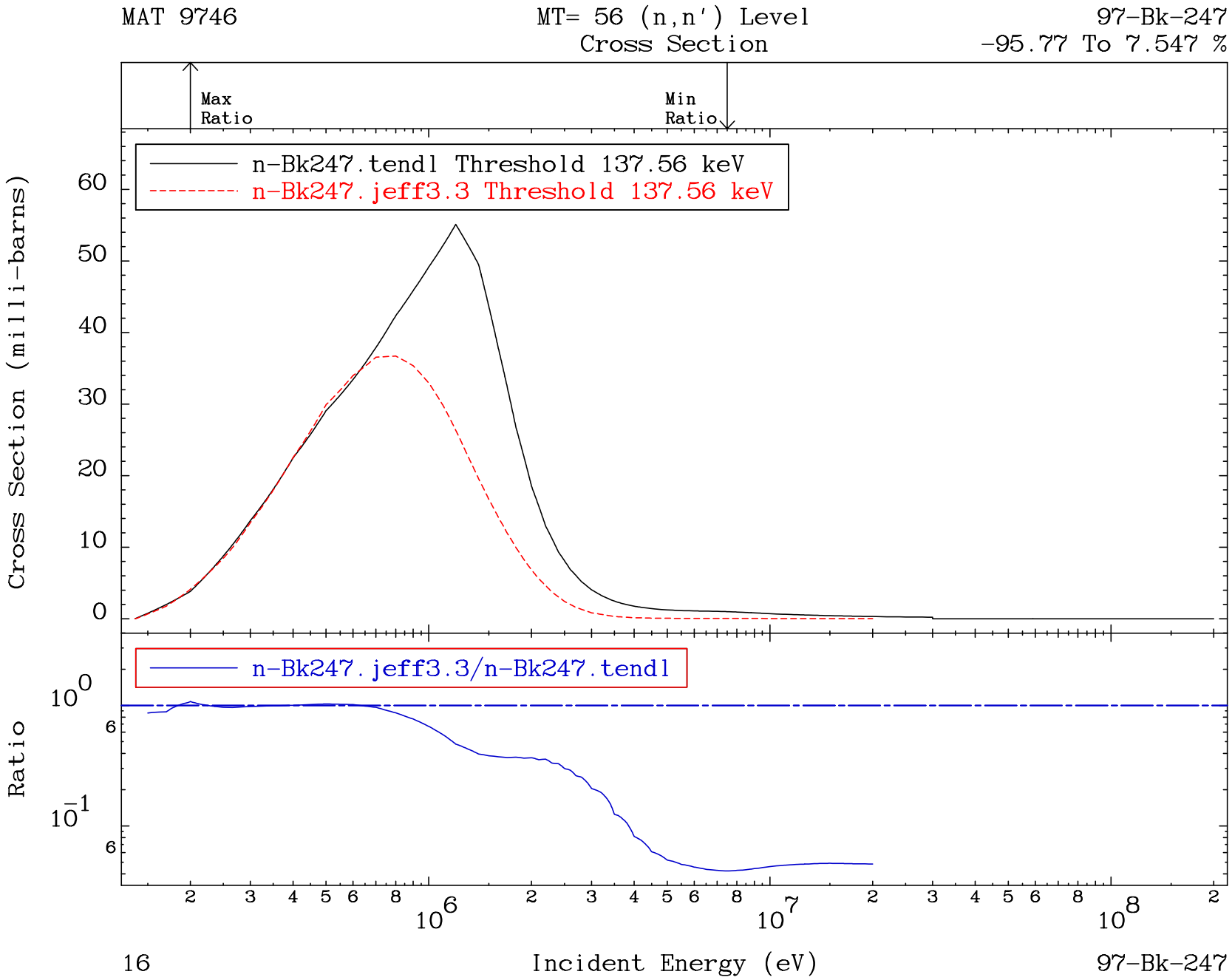

MAT 9746
MT= 51 (n,n') Level
Cross Section
97-Bk-247
-38.45 To 36.80 %
Max
Ratio
Min
Ratio
n-Bk247.tendl Threshold 30.022 keV
n-Bk247.jeff3.3 Threshold 30.022 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
1.6
1.2
0.8
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
97-Bk-247

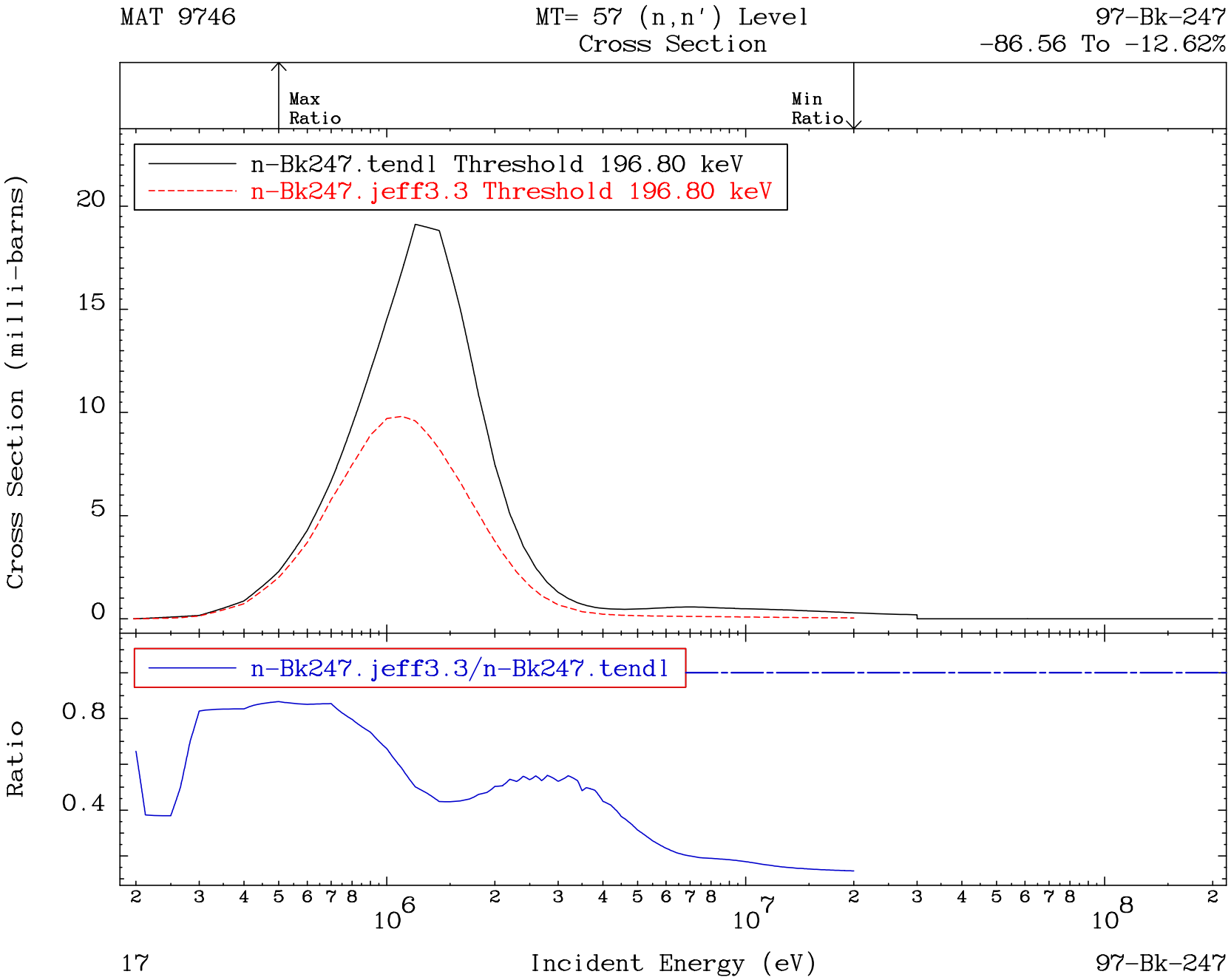

MAT 9746
MT= 52 (n,n') Level
Cross Section
97-Bk-247
-98.65 To 141.1 %
Max
Ratio
Min
Ratio
n-Bk247.tendl Threshold 40.967 keV
n-Bk247.jeff3.3 Threshold 40.967 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
10^{0}
10^{-1}
10^{-2}
10^{5}
10^{6}
10^{7}
10^{8}
12
Incident Energy (eV)
97-Bk-247

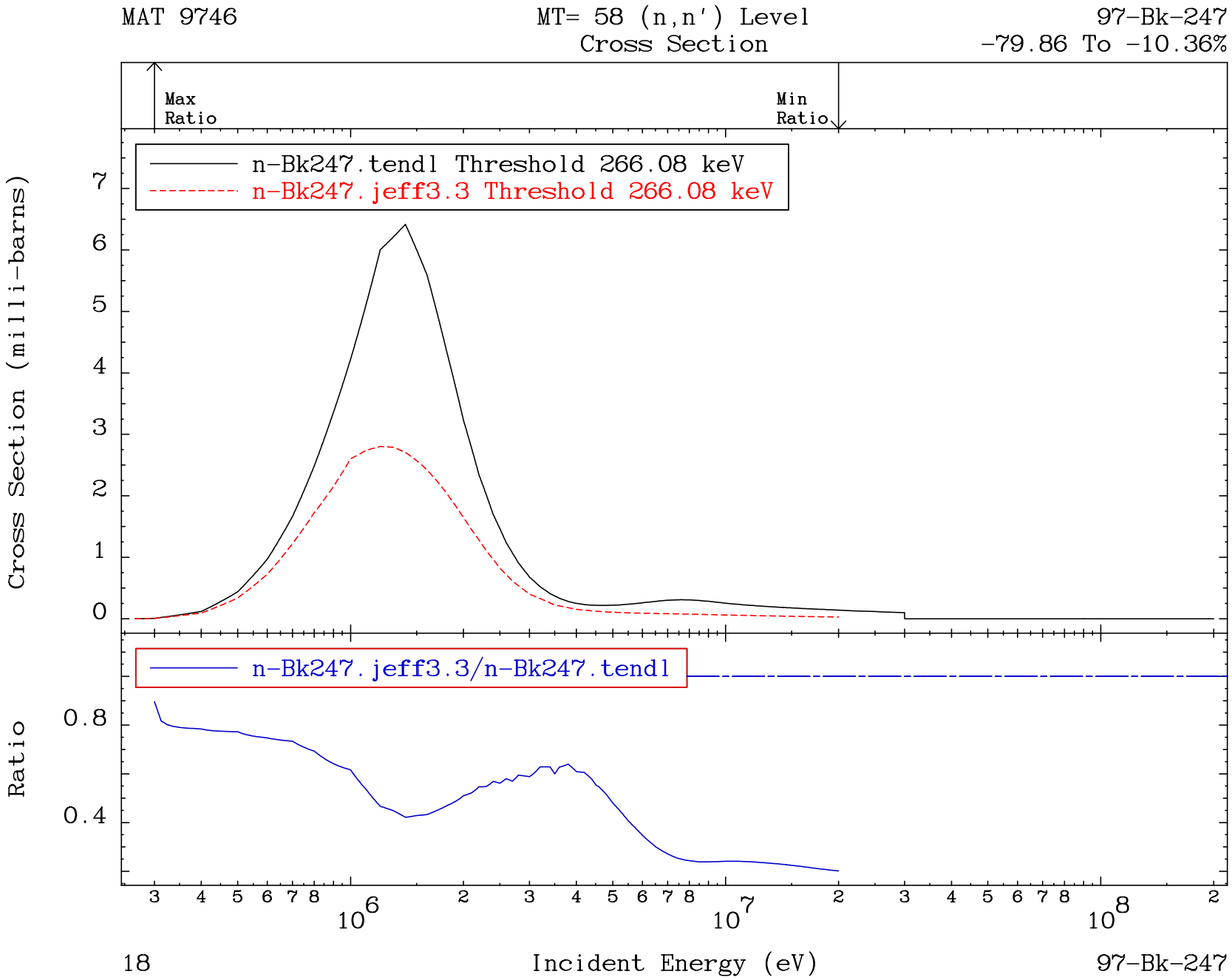

MAT 9746
MT= 53 (n,n') Level
Cross Section
97-Bk-247
-43.14 To 100.0 %
Max
Ratio
Min
Ratio
n-Bk247.tendl Threshold 71.892 keV
n-Bk247.jeff3.3 Threshold 71.892 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
2.0
1.5
1.0
0.5
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
13
Incident Energy (eV)
97-Bk-247

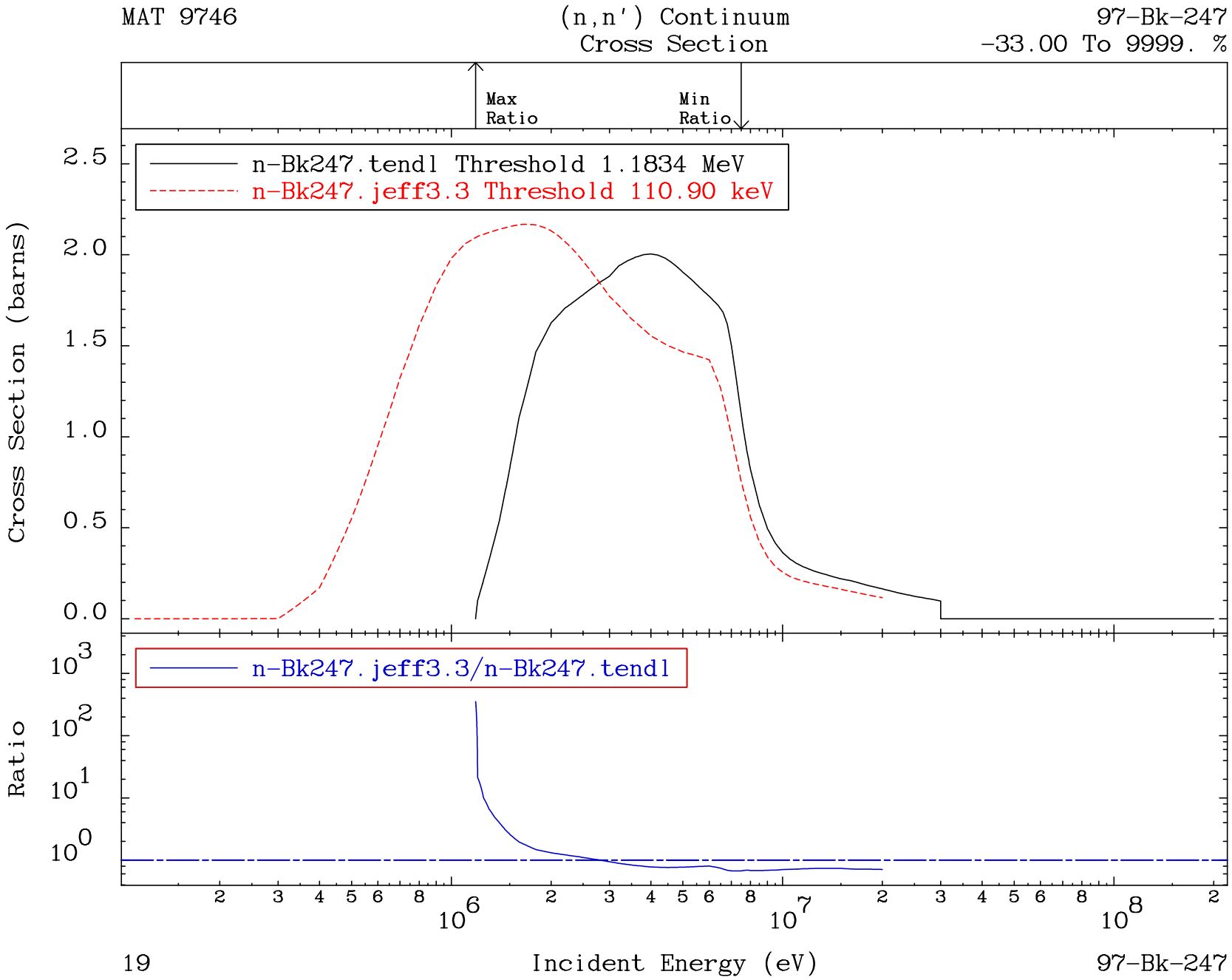

MAT 9746
MT= 54 (n,n') Level
Cross Section
97-Bk-247
-97.98 To 19.85 %
Max
Ratio
Min
Ratio
n-Bk247.tendl Threshold 83.138 keV
n-Bk247.jeff3.3 Threshold 83.138 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
10^{0}
10^{-1}
10^{5}
10^{6}
10^{7}
10^{8}
Incident Energy (eV)
14
97-Bk-247

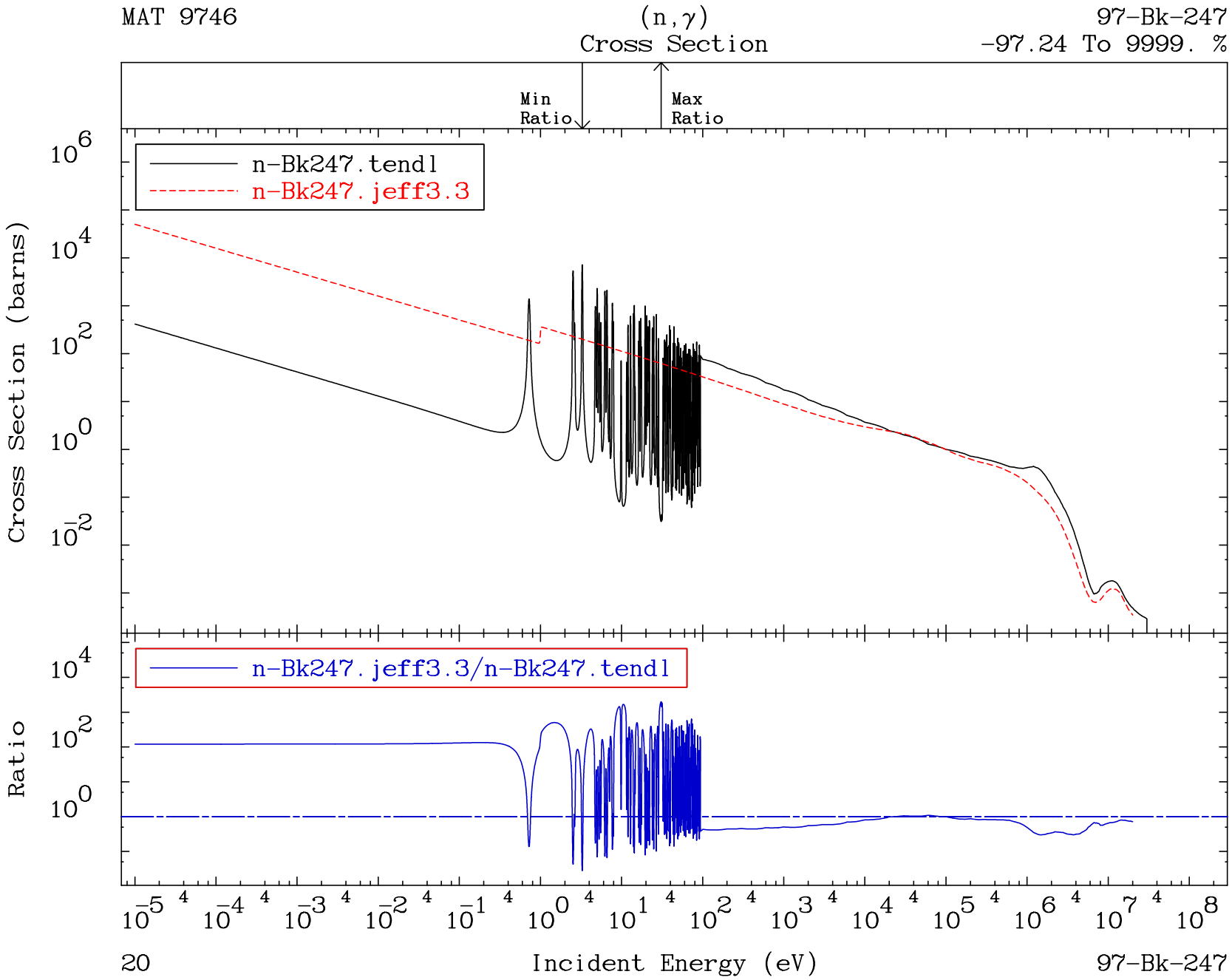

MAT 9746
MT= 55 (n,n') Level
Cross Section
97-Bk-247
2.368 To 6090. %
Min Ratio
Max Ratio
n-Bk247.tendl Threshold 126.01 keV
n-Bk247.jeff3.3 Threshold 126.01 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
10^2
10^1
10^0
4
4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
97-Bk-247

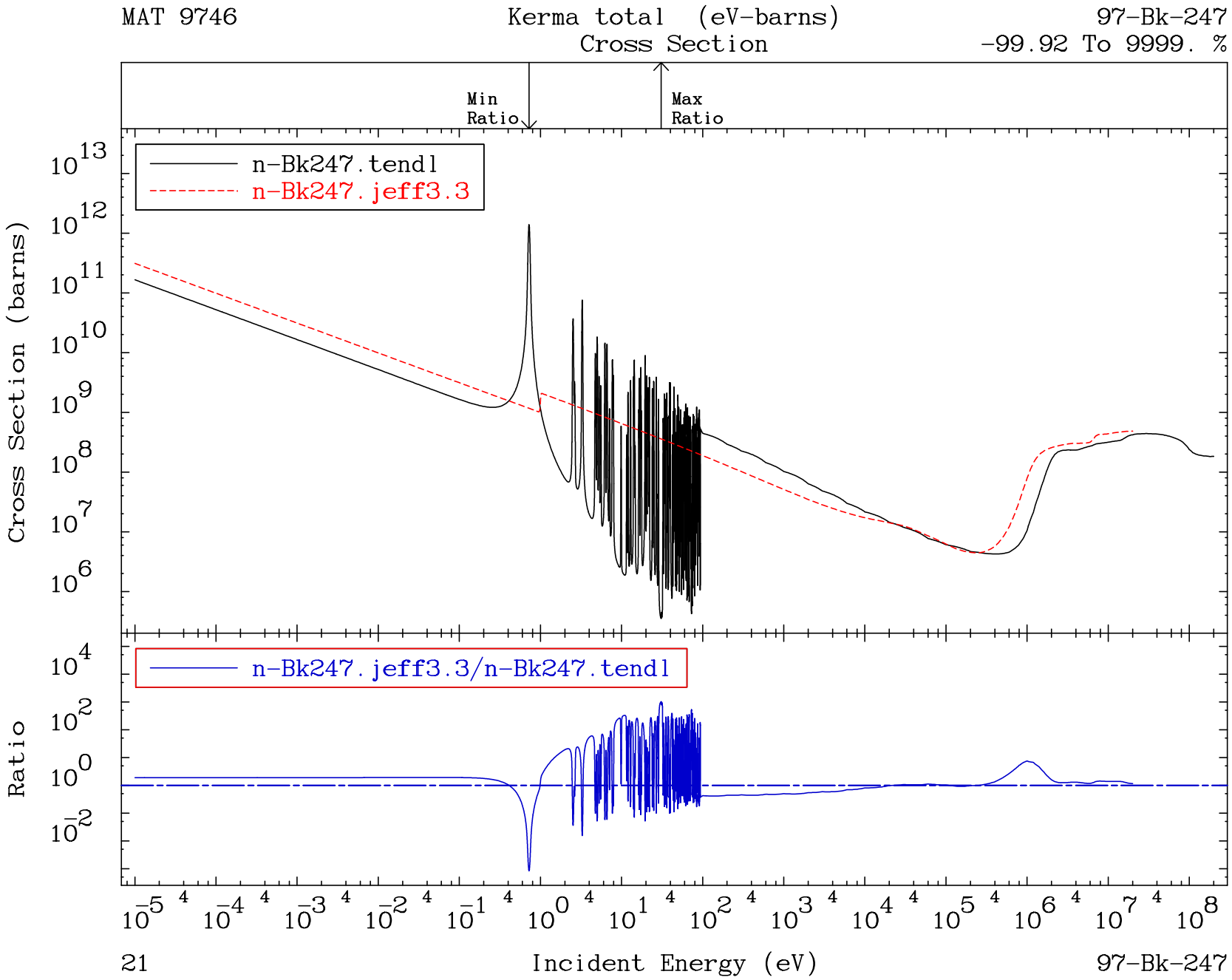

MAT 9746
MT= 56 (n,n') Level
Cross Section
97-Bk-247
-95.77 To 7.547 %
Max
Ratio
Min
Ratio
n-Bk247.tendl Threshold 137.56 keV
n-Bk247.jeff3.3 Threshold 137.56 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
10^0
6
10^-1
6
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
97-Bk-247

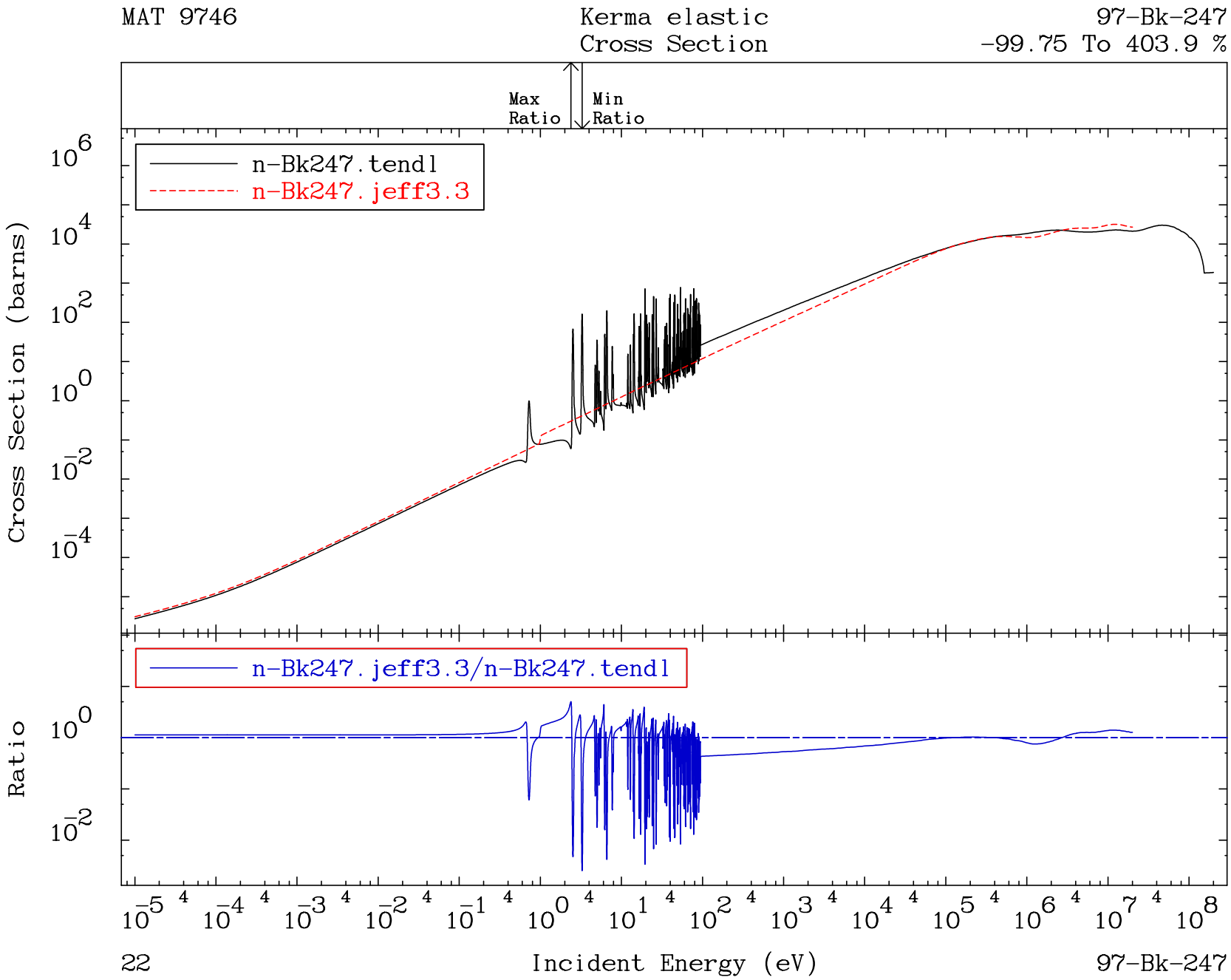

MAT 9746
MT= 57 (n,n') Level
Cross Section
97-Bk-247
-86.56 To -12.62%
Max
Ratio
Min
Ratio
n-Bk247.tendl Threshold 196.80 keV
n-Bk247.jeff3.3 Threshold 196.80 keV
Cross Section (milli-barns)
20
15
10
5
0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
0.8
0.4
2 3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
97-Bk-247

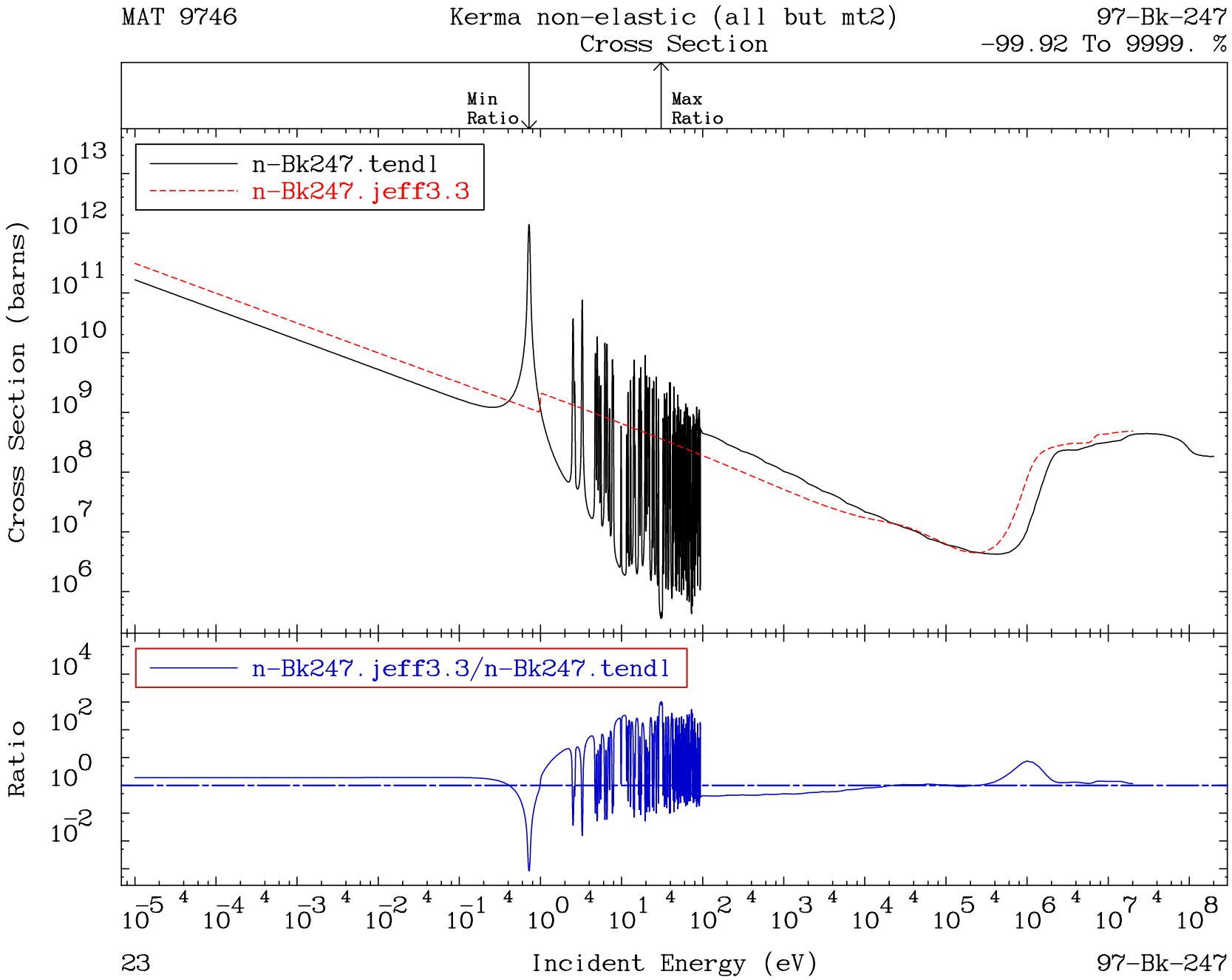

MAT 9746
MT= 58 (n,n') Level
Cross Section
97-Bk-247
-79.86 To -10.36%
Max Ratio
Min Ratio
n-Bk247.tendl Threshold 266.08 keV
n-Bk247.jeff3.3 Threshold 266.08 keV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
0.4
0.8
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
97-Bk-247

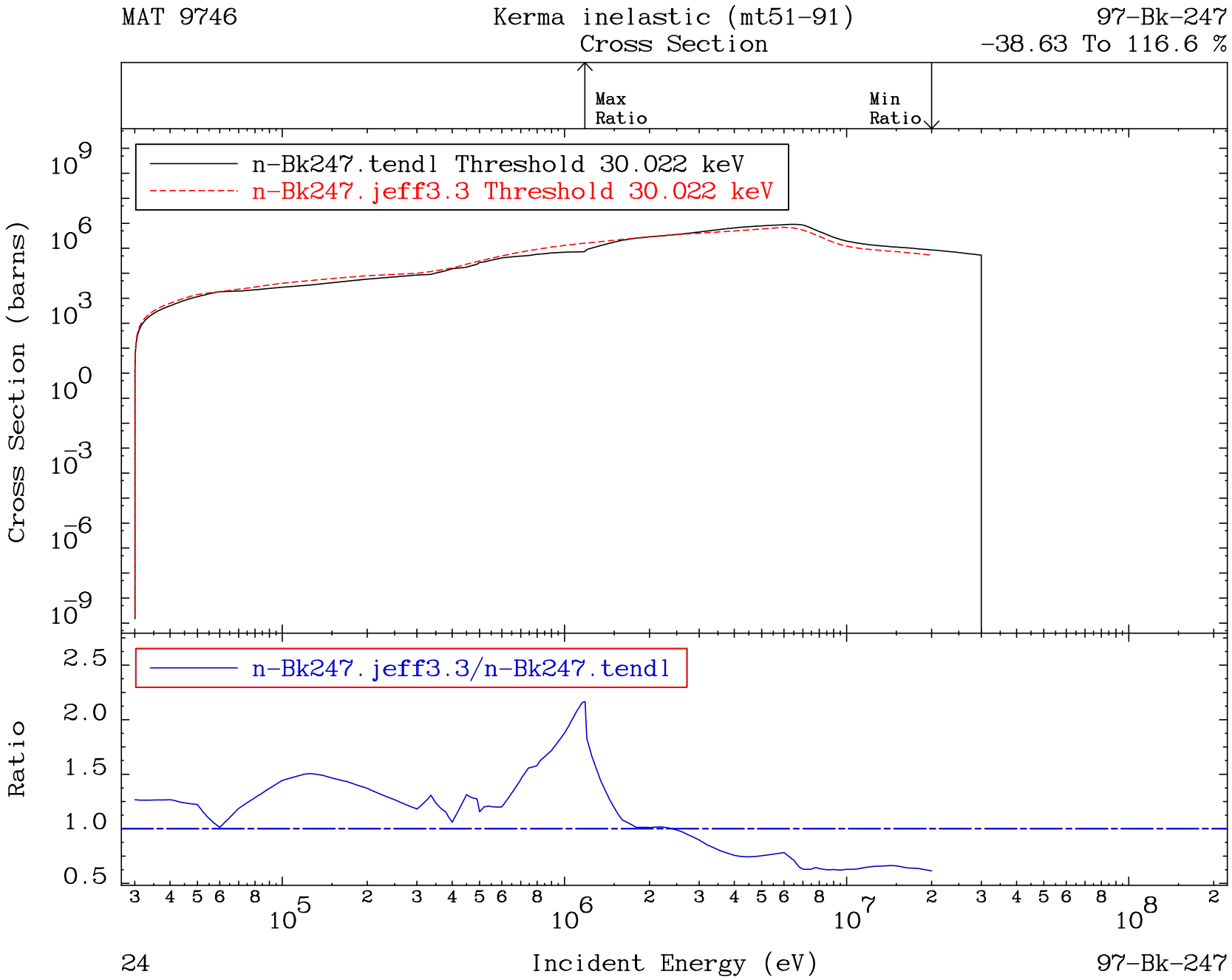

MAT 9746
(n,n') Continuum
Cross Section
97-Bk-247
-33.00 To 9999. %
Max
Ratio
Min
Ratio
n-Bk247.tendl Threshold 1.1834 MeV
n-Bk247.jeff3.3 Threshold 110.90 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
10^3
10^2
10^1
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
97-Bk-247

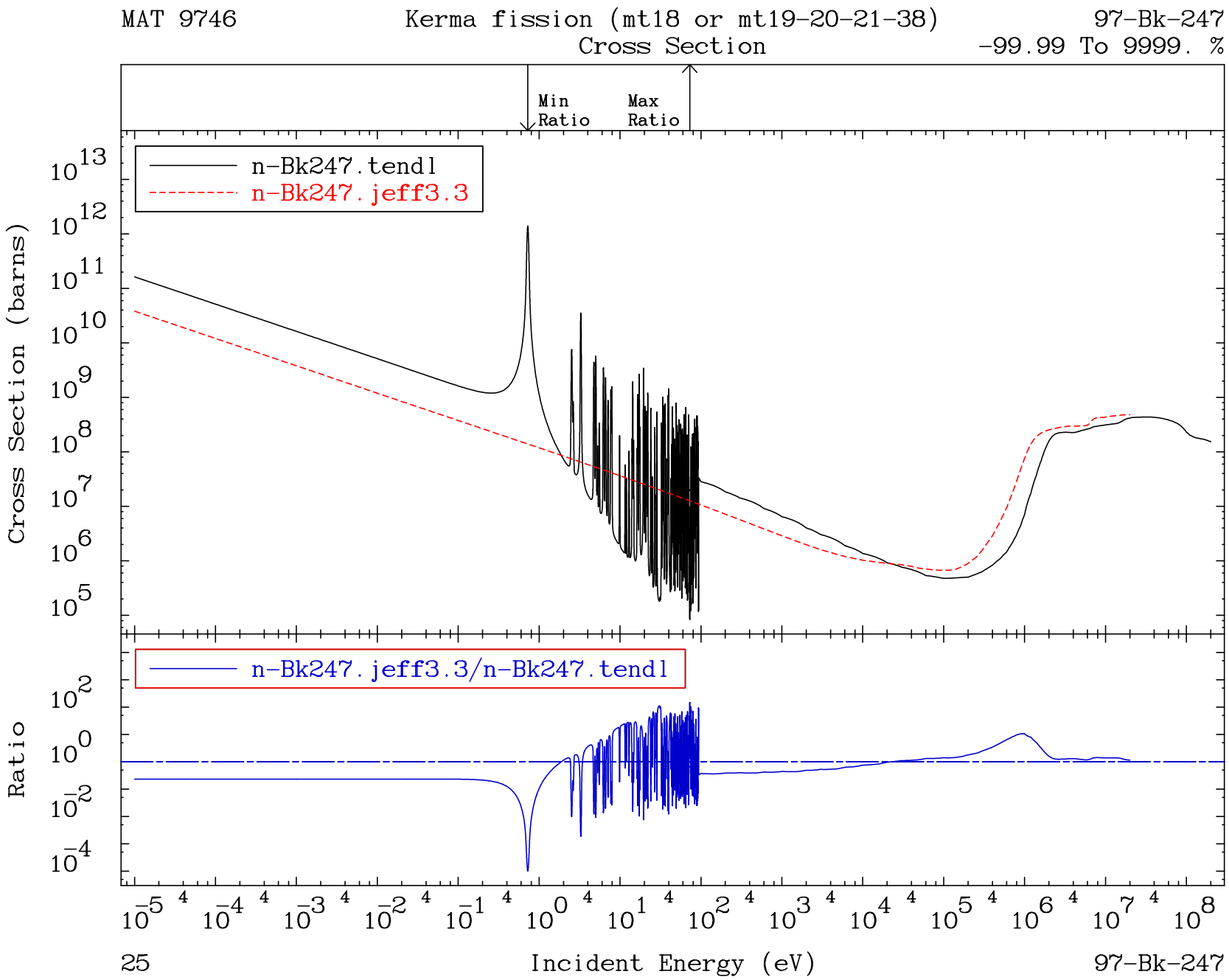

MAT 9746
(n,γ)
Cross Section
97-Bk-247
-97.24 To 9999. %
Min Ratio
Max Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
20
97-Bk-247

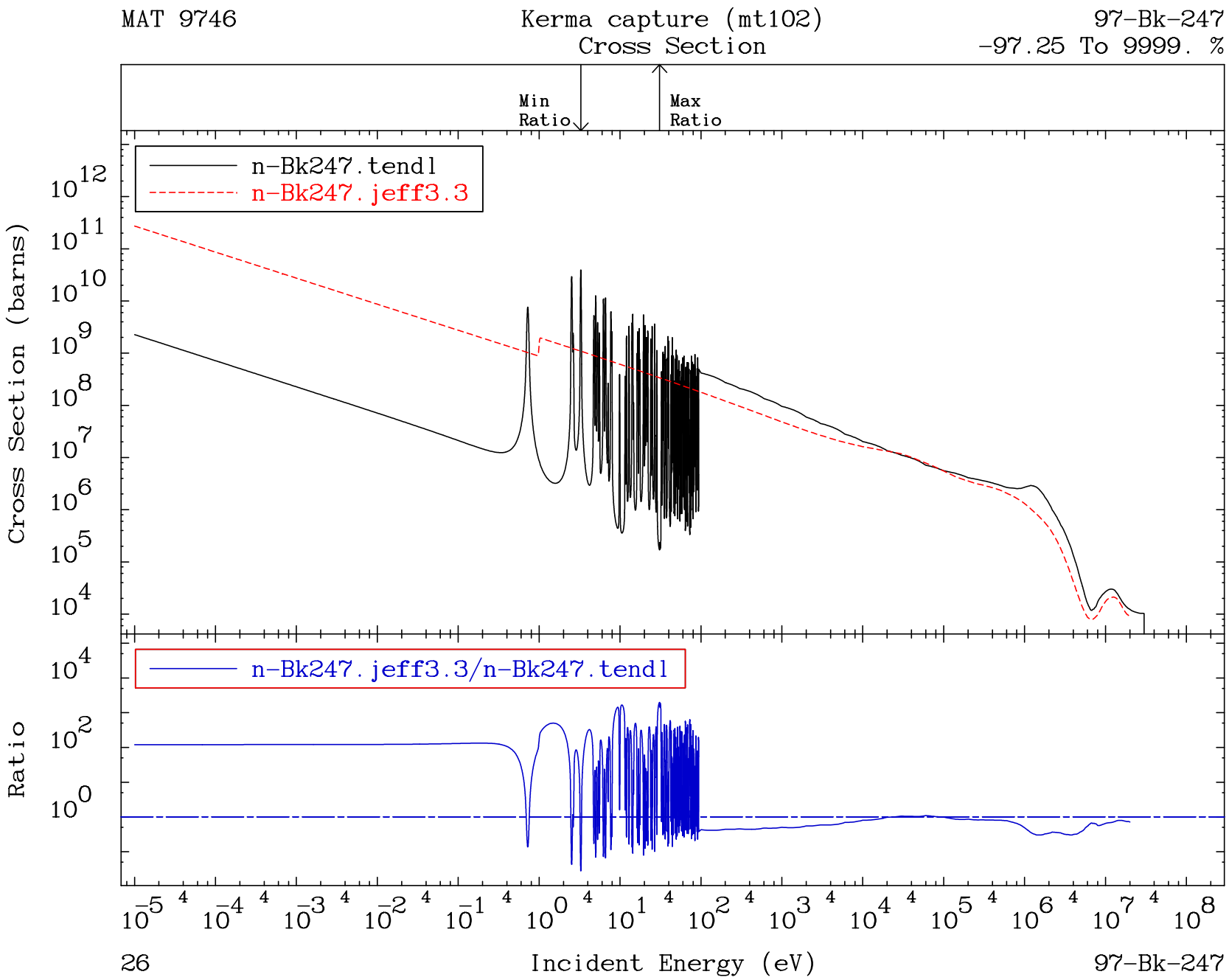

MAT 9746
Kerma total (eV-barns)
Cross Section
97-Bk-247
-99.92 To 9999. %
Min Ratio
Max Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
21
97-Bk-247

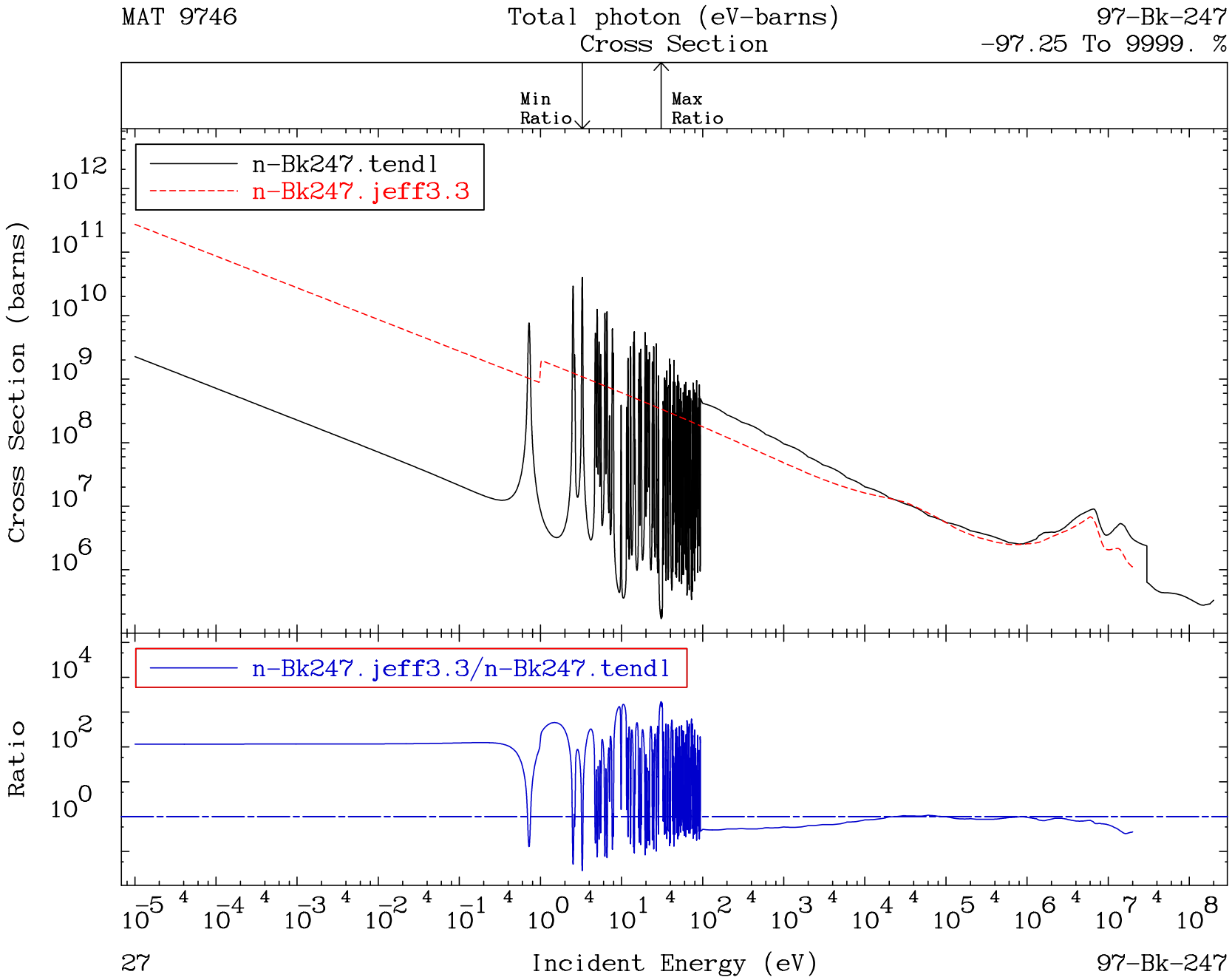

MAT 9746
Kerma elastic
Cross Section
97-Bk-247
-99.75 To 403.9 %
Max Ratio
Min Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
22
Incident Energy (eV)
97-Bk-247

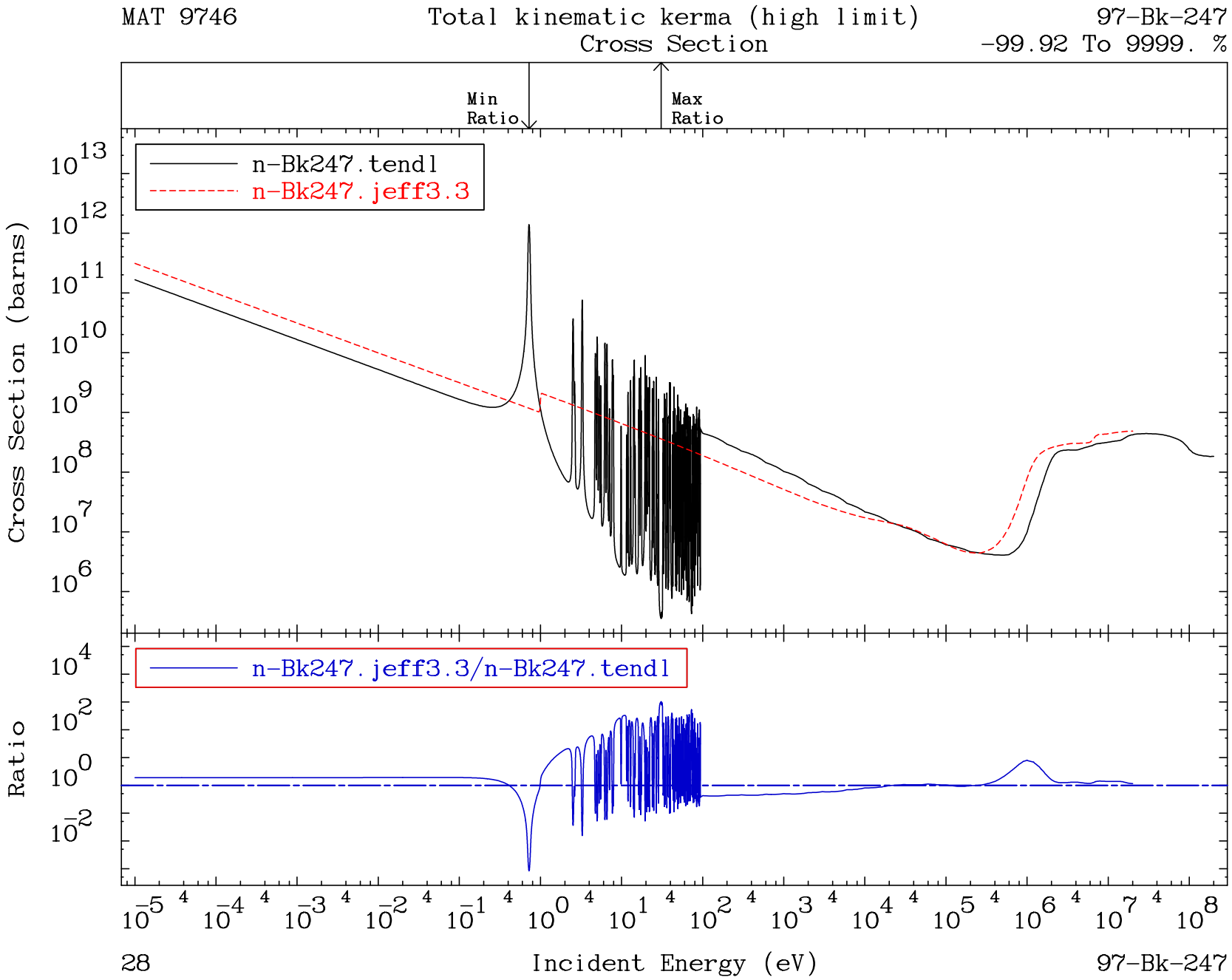

MAT 9746
Kerma non-elastic (all but mt2)
Cross Section
97-Bk-247
-99.92 To 9999. %
Min Ratio
Max Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
23
Incident Energy (eV)
97-Bk-247

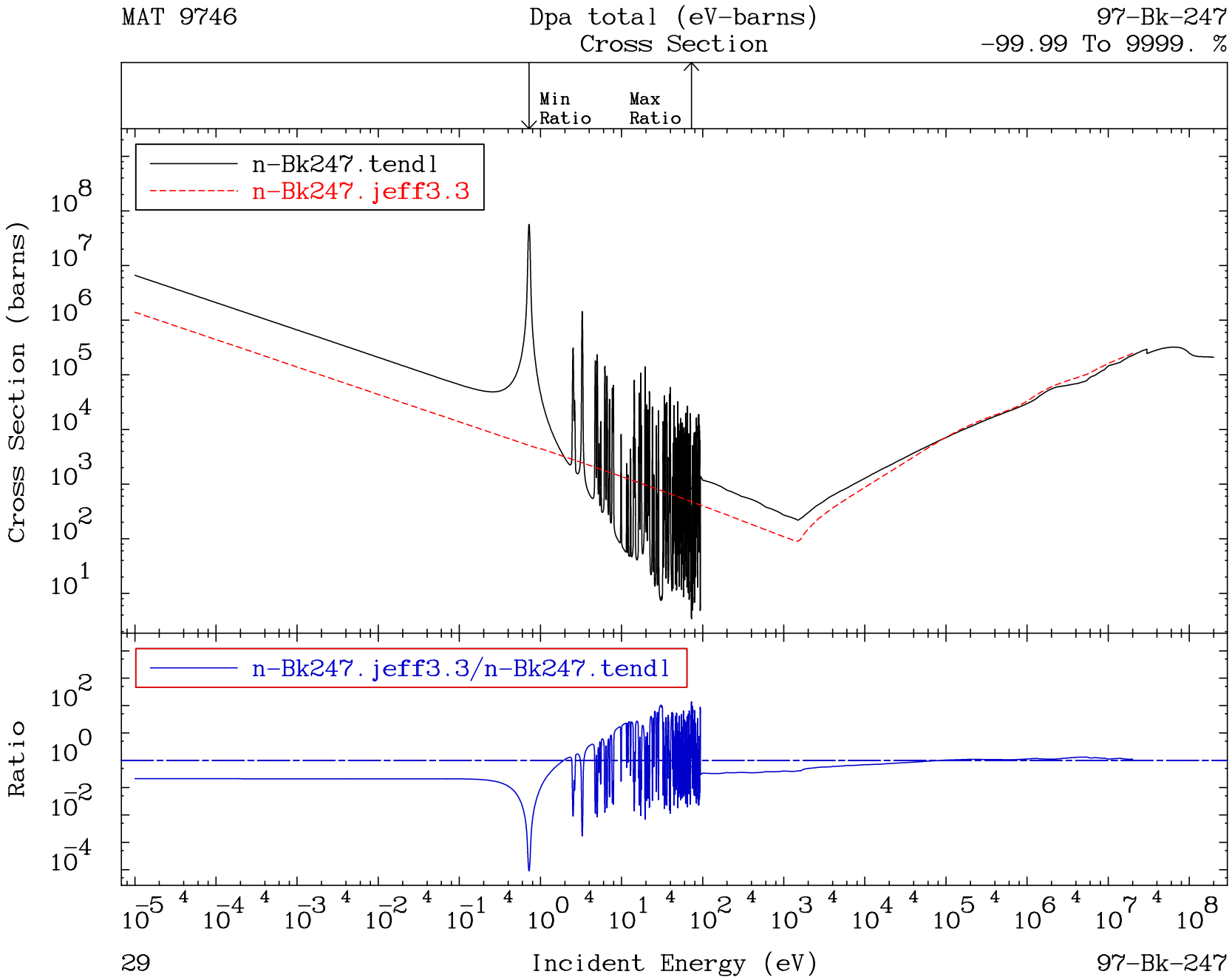

MAT 9746
Kerma inelastic (mt51-91)
Cross Section
97-Bk-247
-38.63 To 116.6 %
Max Ratio
Min Ratio
n-Bk247.tendl Threshold 30.022 keV
n-Bk247.jeff3.3 Threshold 30.022 keV
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
24
97-Bk-247

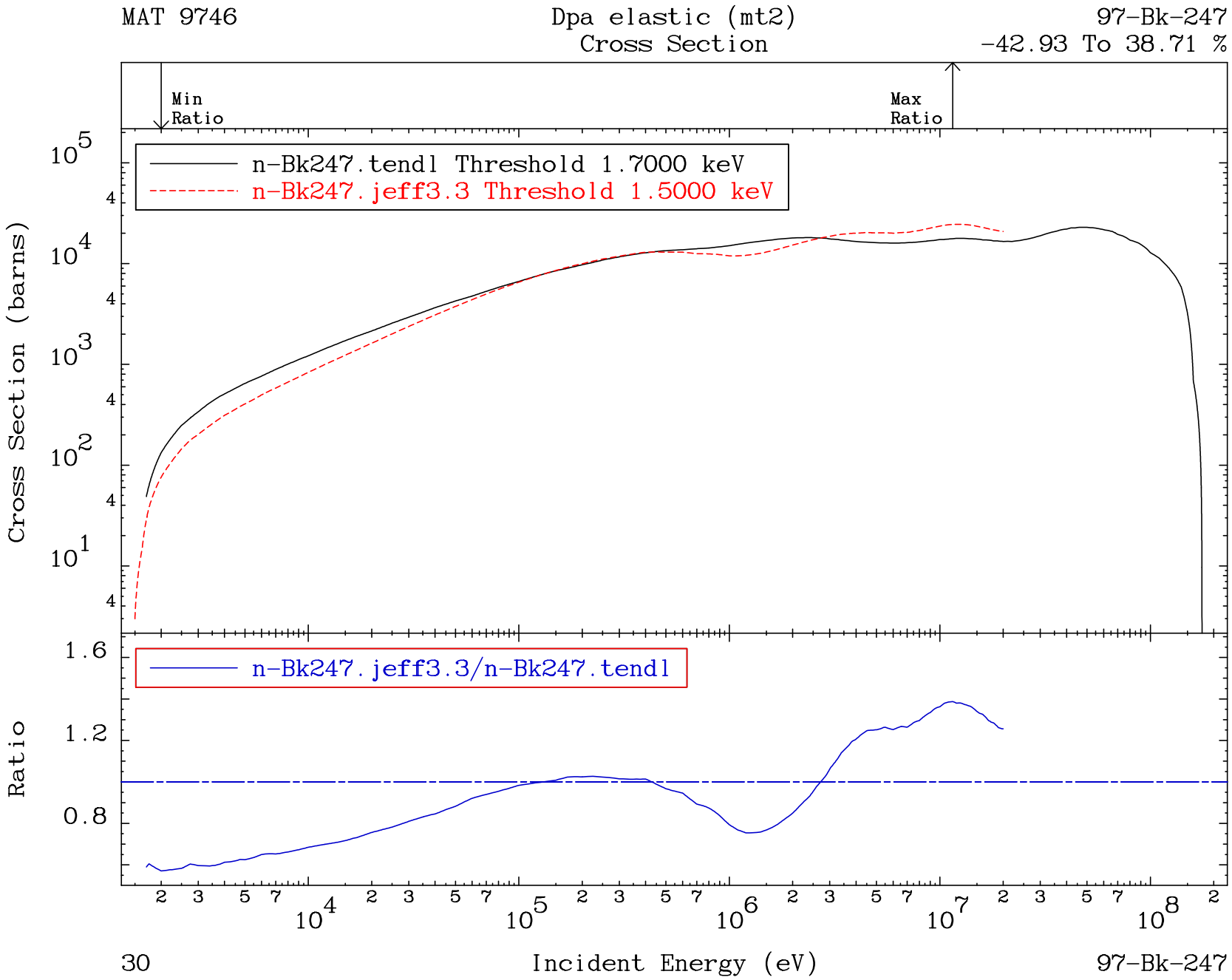

MAT 9746
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
97-Bk-247
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
25
97-Bk-247

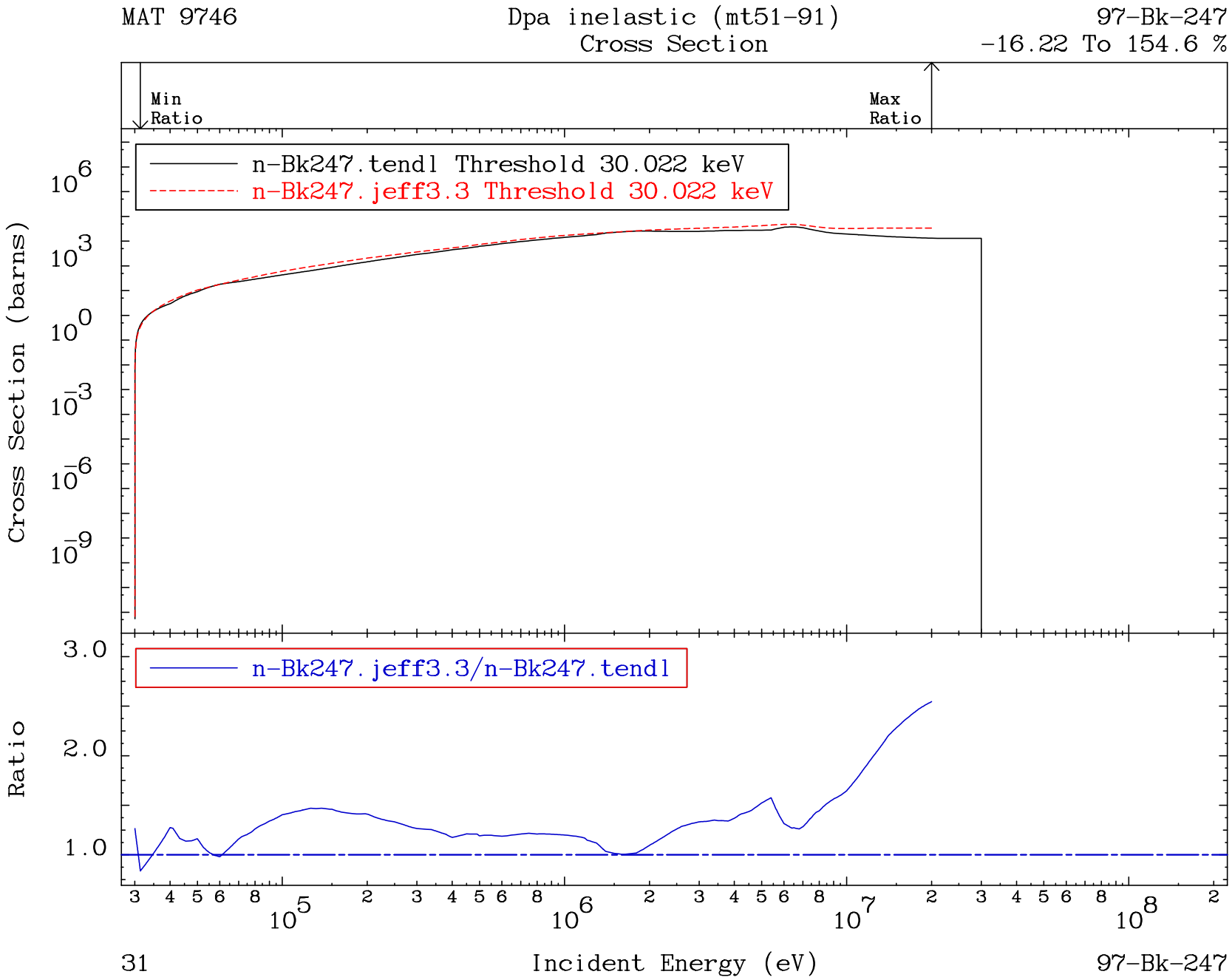

MAT 9746
Kerma capture (mt102)
Cross Section
97-Bk-247
-97.25 To 9999. %
Min Ratio
Max Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
26
97-Bk-247

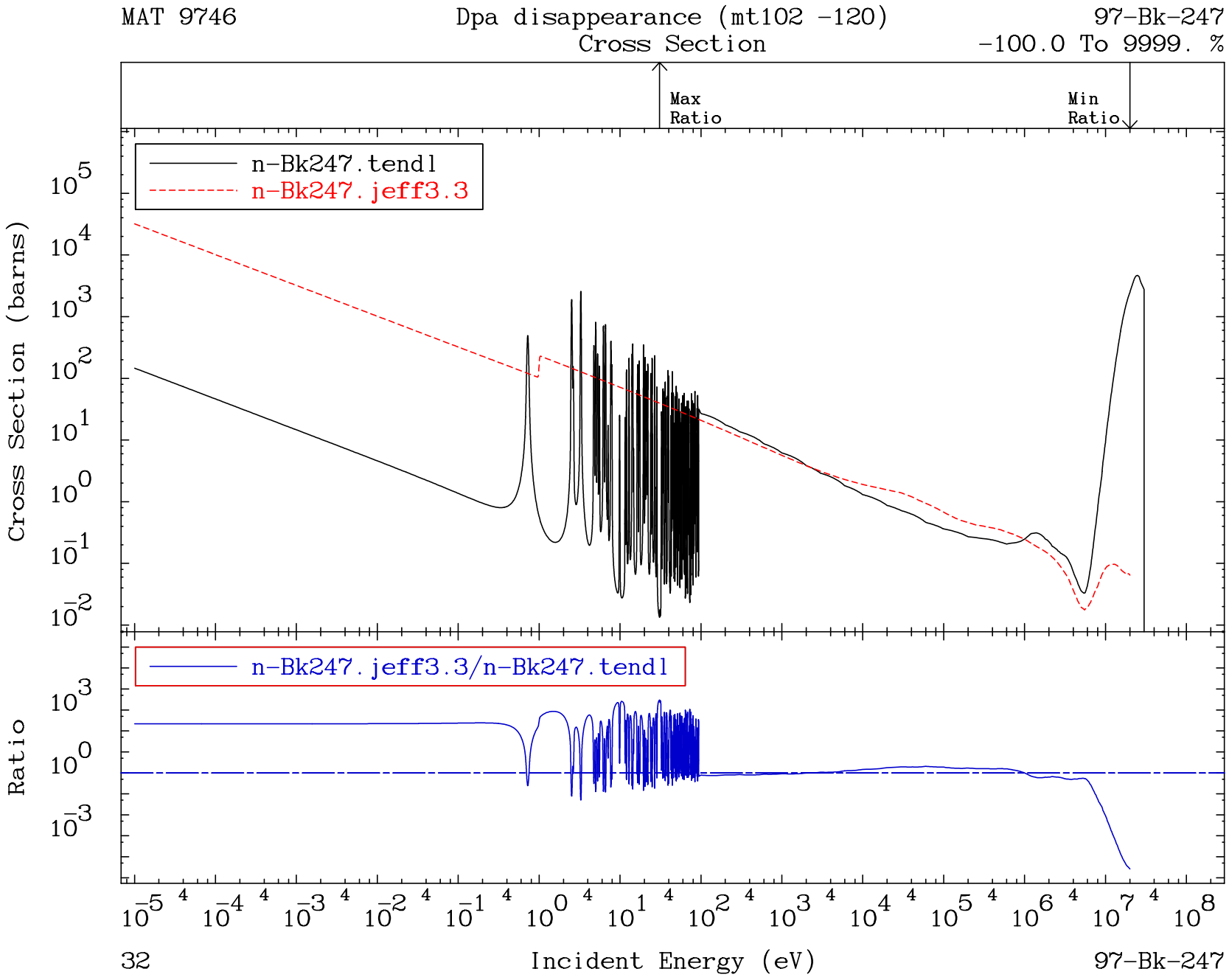

MAT 9746
Total photon (eV-barns)
Cross Section
97-Bk-247
-97.25 To 9999. %
Min Ratio
Max Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
27
97-Bk-247


MAT 9746
Total kinematic kerma (high limit)
Cross Section
97-Bk-247
-99.92 To 9999. %
Min Ratio
Max Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
28
97-Bk-247


MAT 9746
Dpa total (eV-barns)
Cross Section
97-Bk-247
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
29
97-Bk-247


MAT 9746
Dpa elastic (mt2)
Cross Section
97-Bk-247
-42.93 To 38.71 %
Min Ratio
Max Ratio
n-Bk247.tendl Threshold 1.7000 keV
n-Bk247.jeff3.3 Threshold 1.5000 keV
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
30
97-Bk-247


MAT 9746
Dpa inelastic (mt51-91)
Cross Section
97-Bk-247
-16.22 To 154.6 %
Min Ratio
Max Ratio
n-Bk247.tendl Threshold 30.022 keV
n-Bk247.jeff3.3 Threshold 30.022 keV
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.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
n-Bk247.tendl
n-Bk247.jeff3.3
Cross Section (barns)
n-Bk247.jeff3.3/n-Bk247.tendl
Ratio
Incident Energy (eV)
32
97-Bk-247