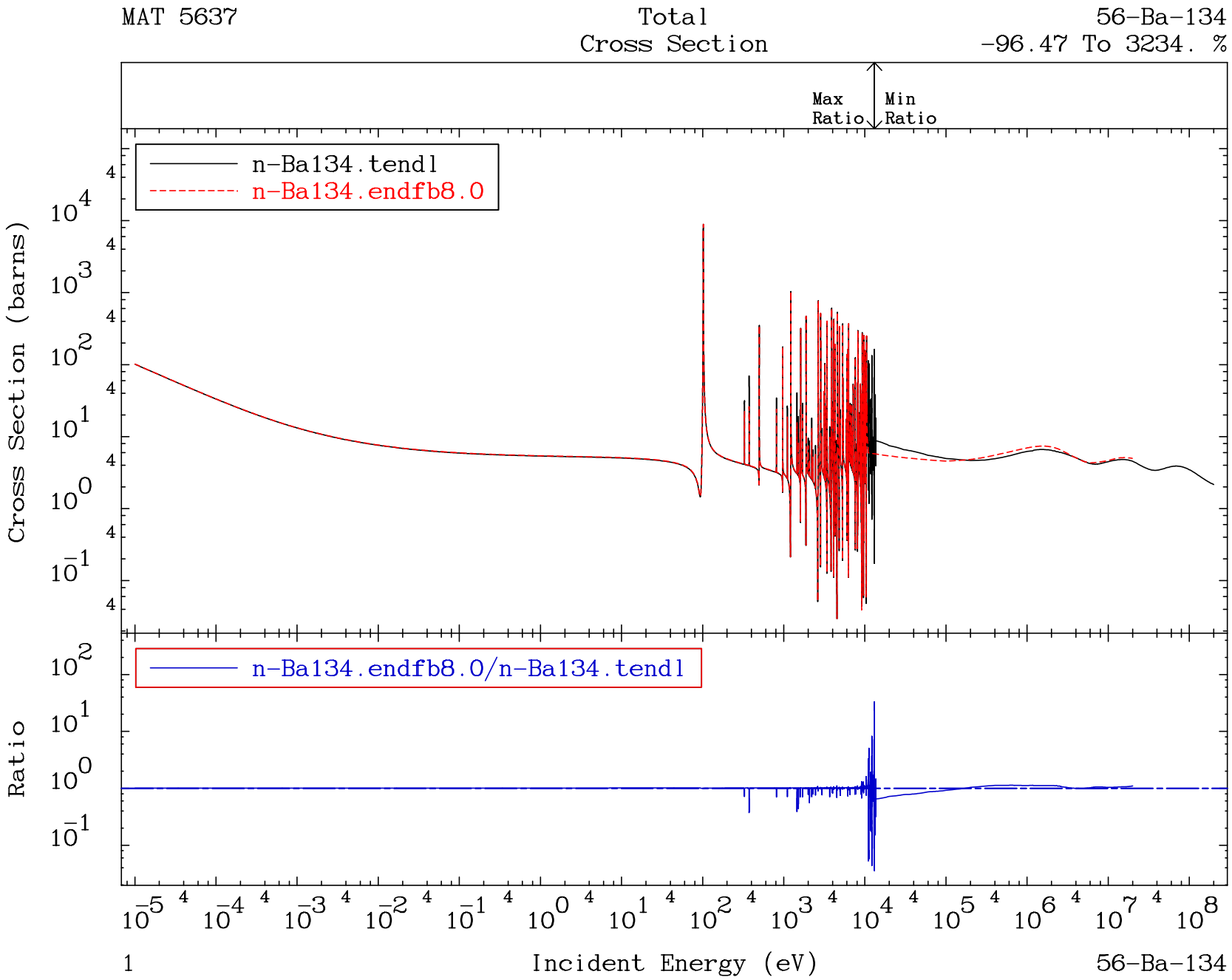
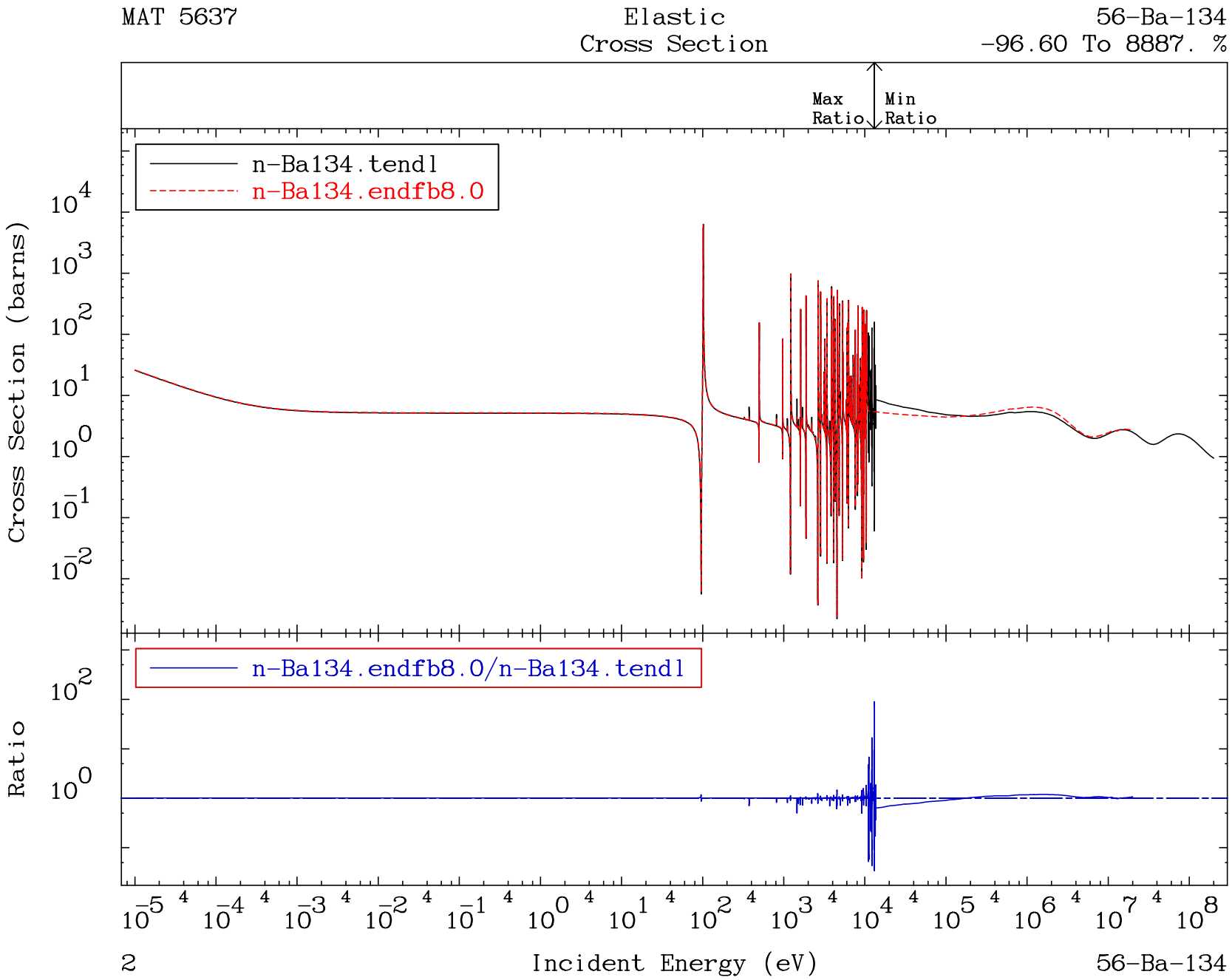
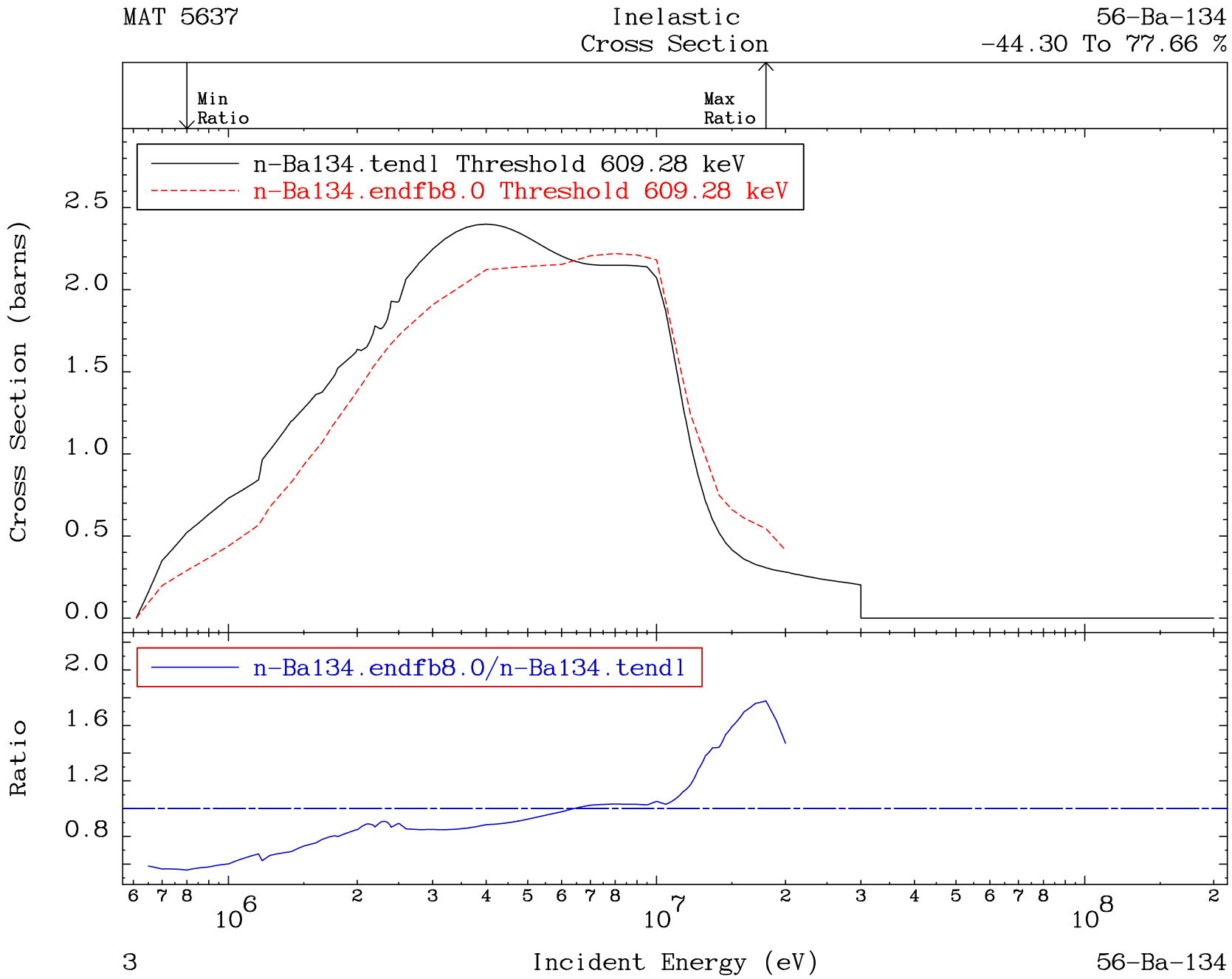
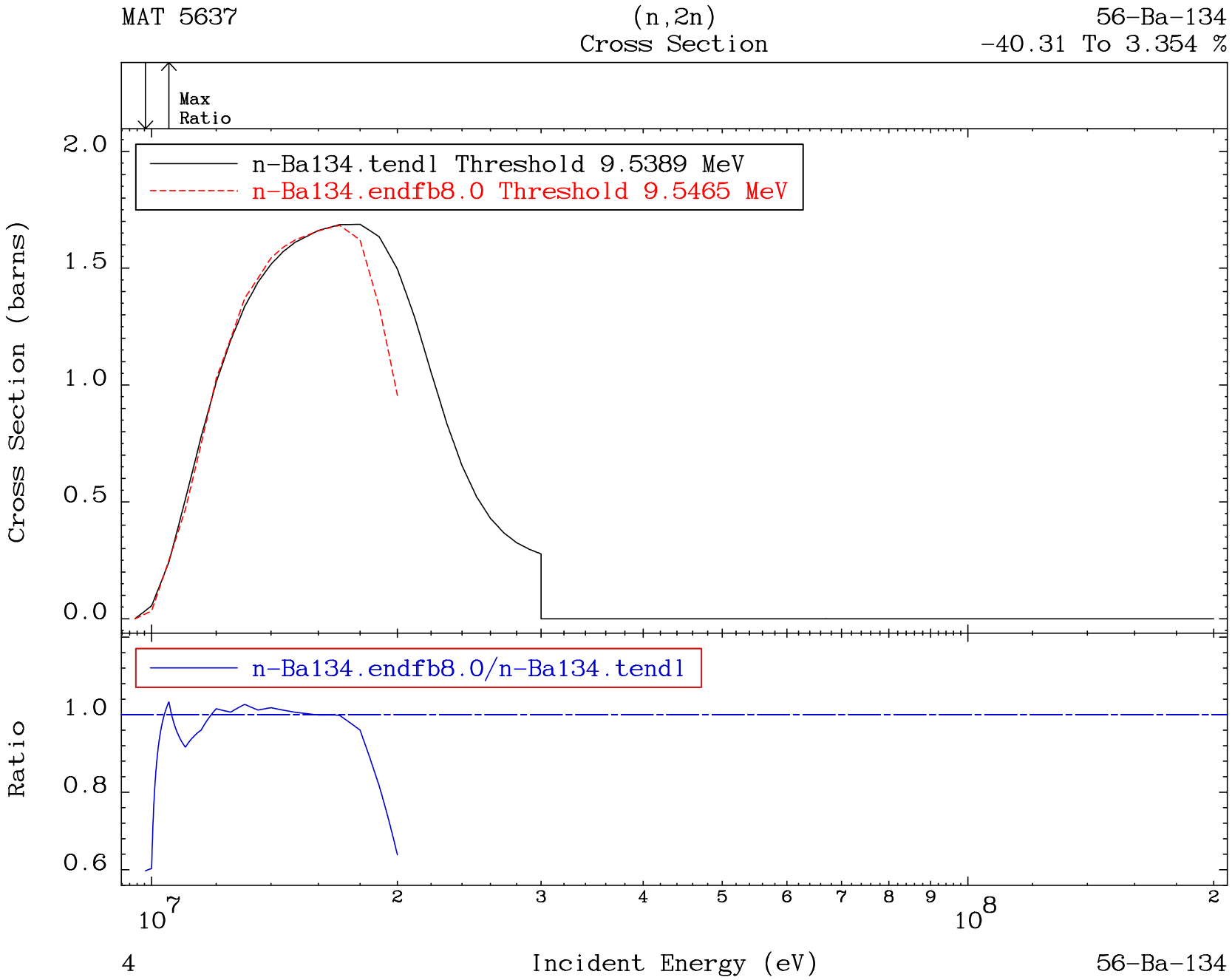
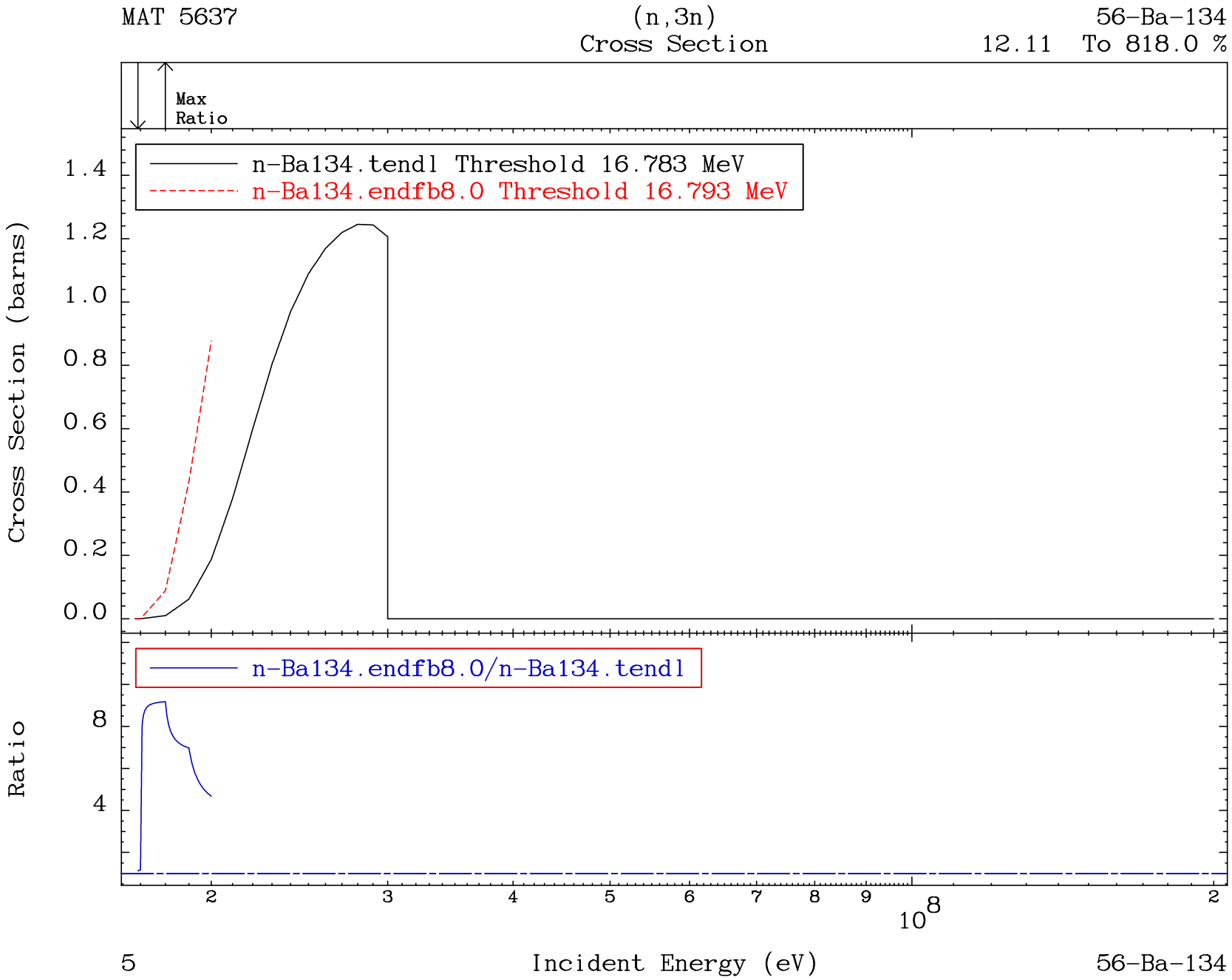
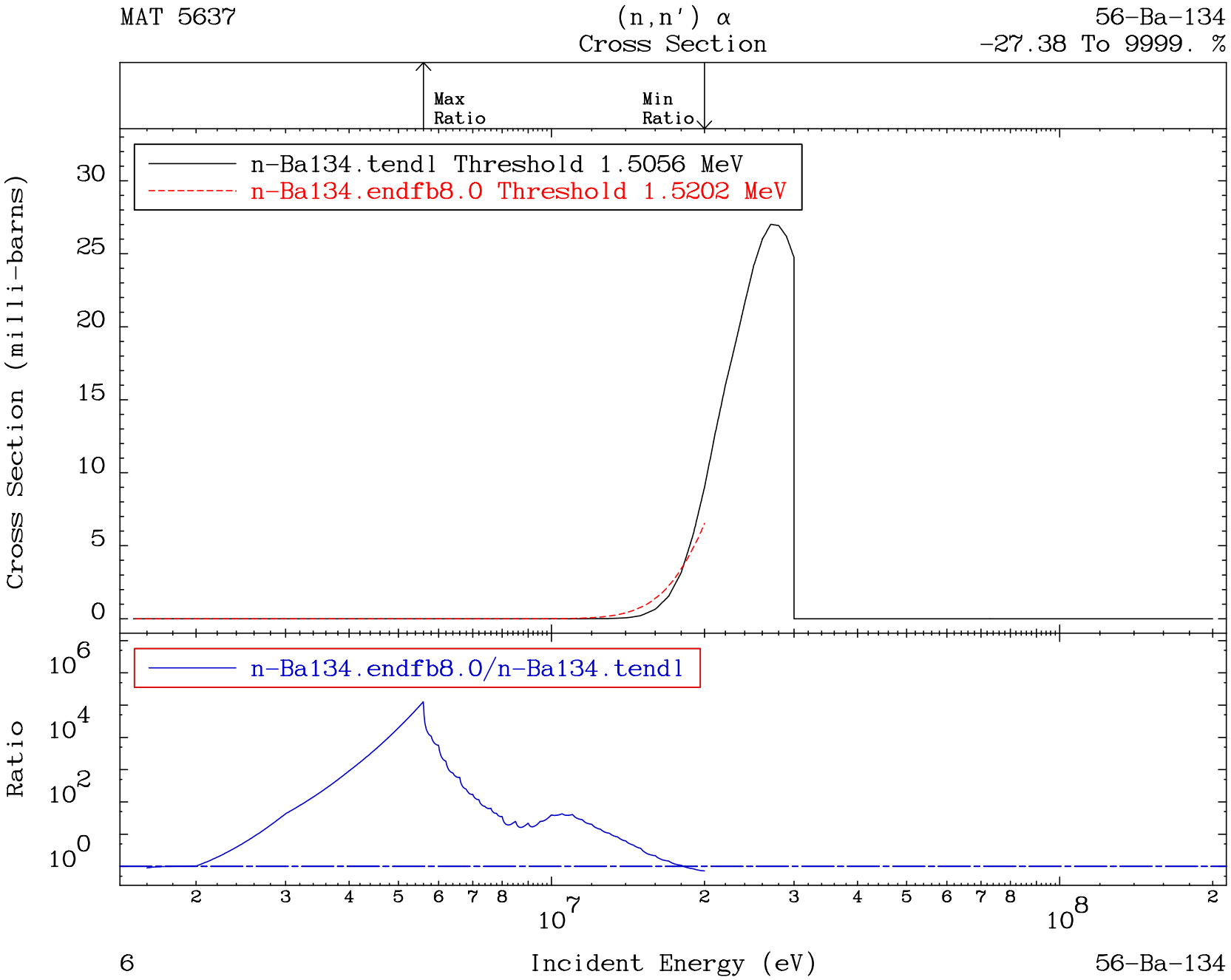

MAT 5637
Total
Cross Section
56-Ba-134
-96.47 To 3234. %
Max Ratio
Min Ratio
n-Ba134.tendl
n-Ba134.endfb8.0
Cross Section (barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
1
56-Ba-134

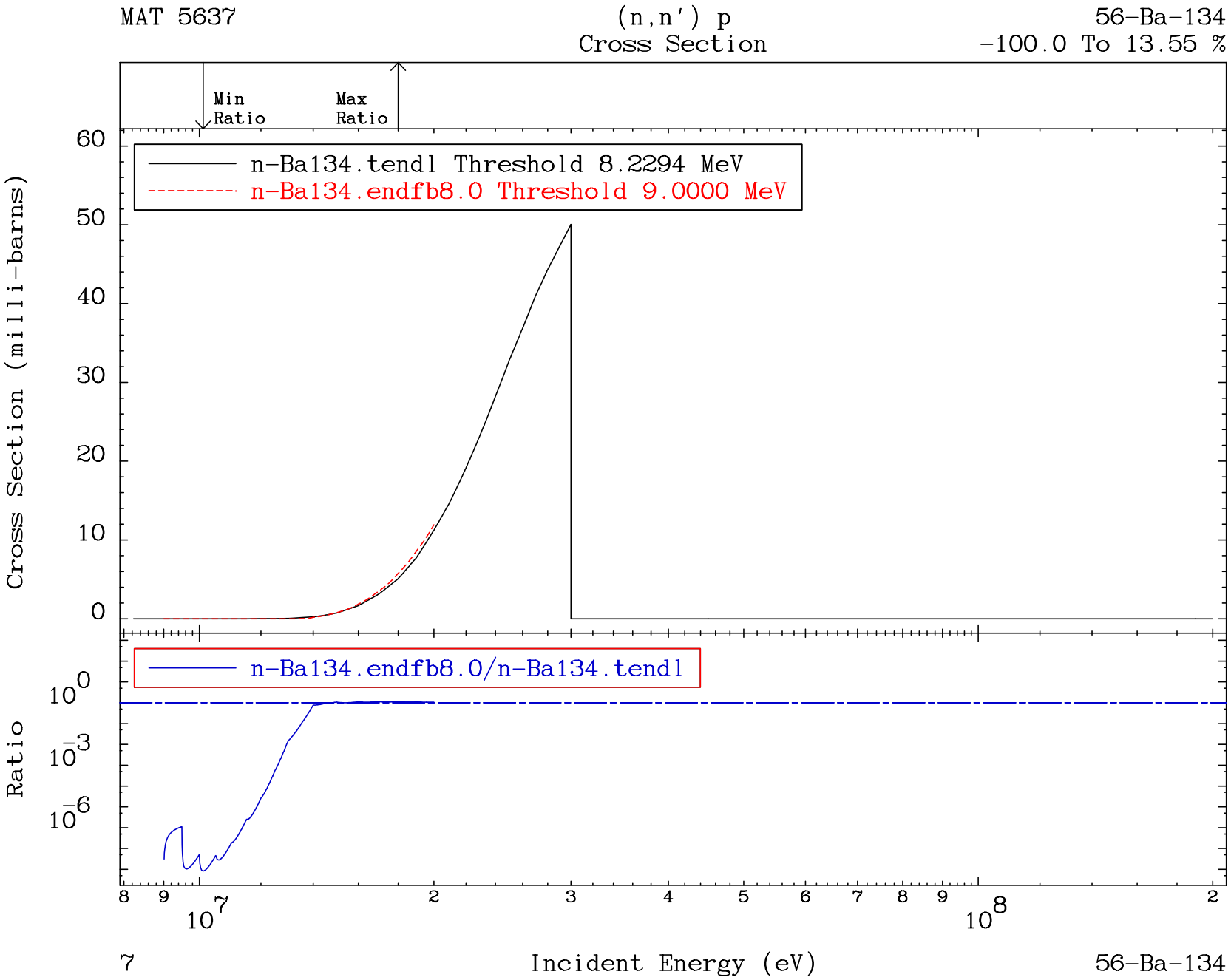

MAT 5637
Elastic
Cross Section
56-Ba-134
-96.60 To 8887. %
Max Ratio
Min Ratio
n-Ba134.tendl
n-Ba134.endfb8.0
Cross Section (barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
2
56-Ba-134

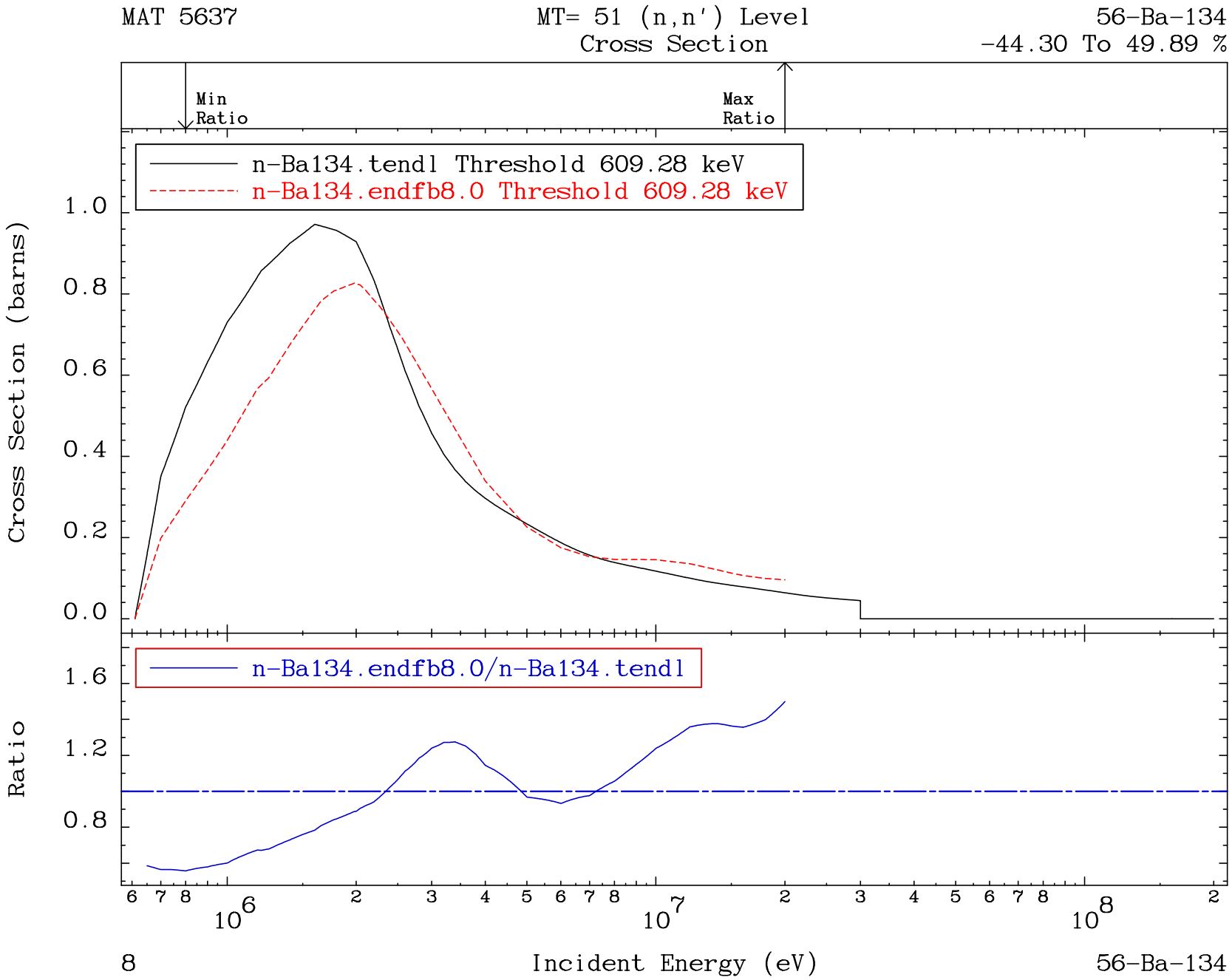

MAT 5637
Inelastic
Cross Section
56-Ba-134
-44.30 To 77.66 %
Min
Ratio
Max
Ratio
n-Ba134.tendl Threshold 609.28 keV
n-Ba134.endfb8.0 Threshold 609.28 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
2.0
1.6
1.2
0.8
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
56-Ba-134

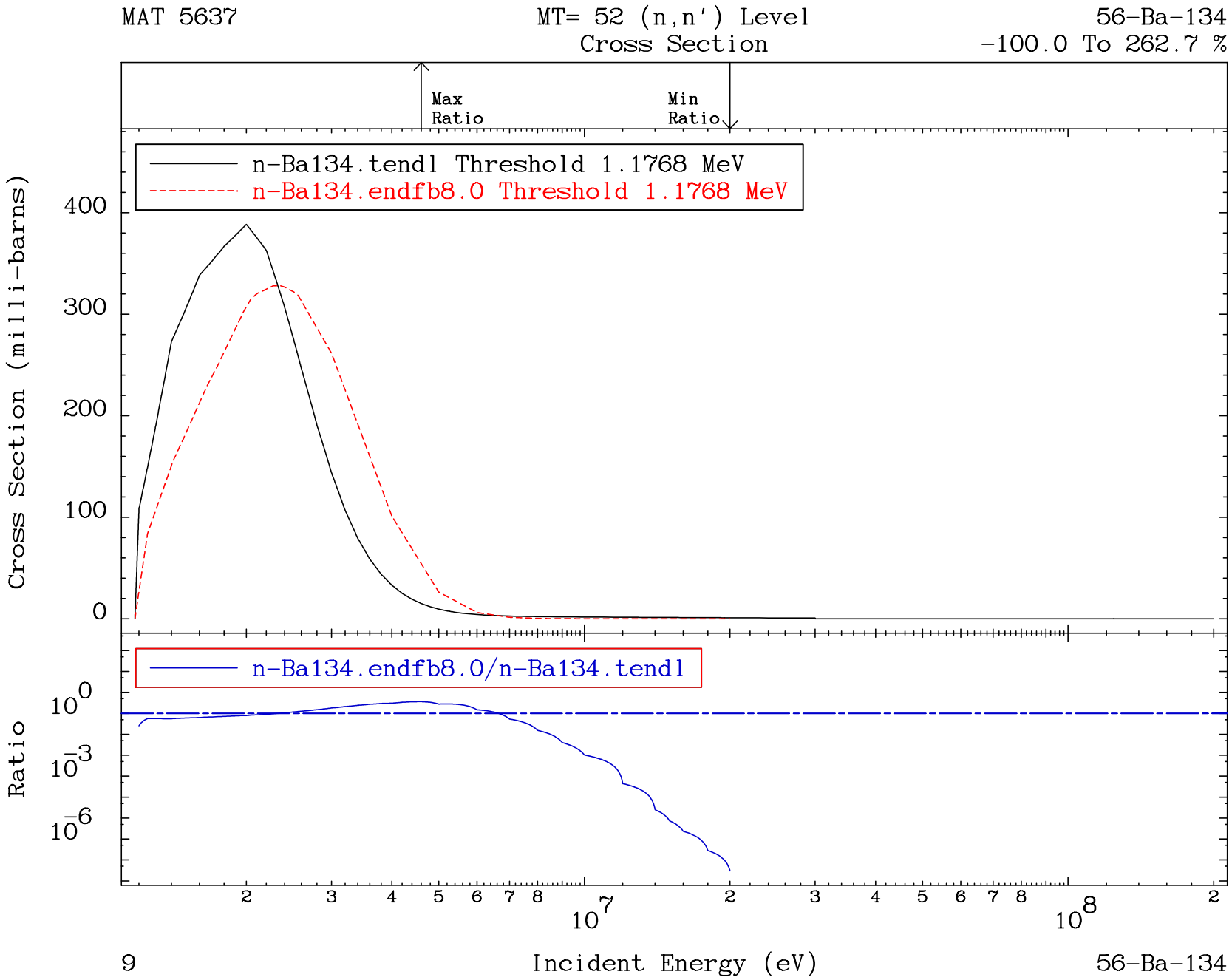

MAT 5637
(n,2n)
Cross Section
56-Ba-134
-40.31 To 3.354 %
Max
Ratio
n-Ba134.tendl Threshold 9.5389 MeV
n-Ba134.endfb8.0 Threshold 9.5465 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
1.0
0.8
0.6
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
56-Ba-134

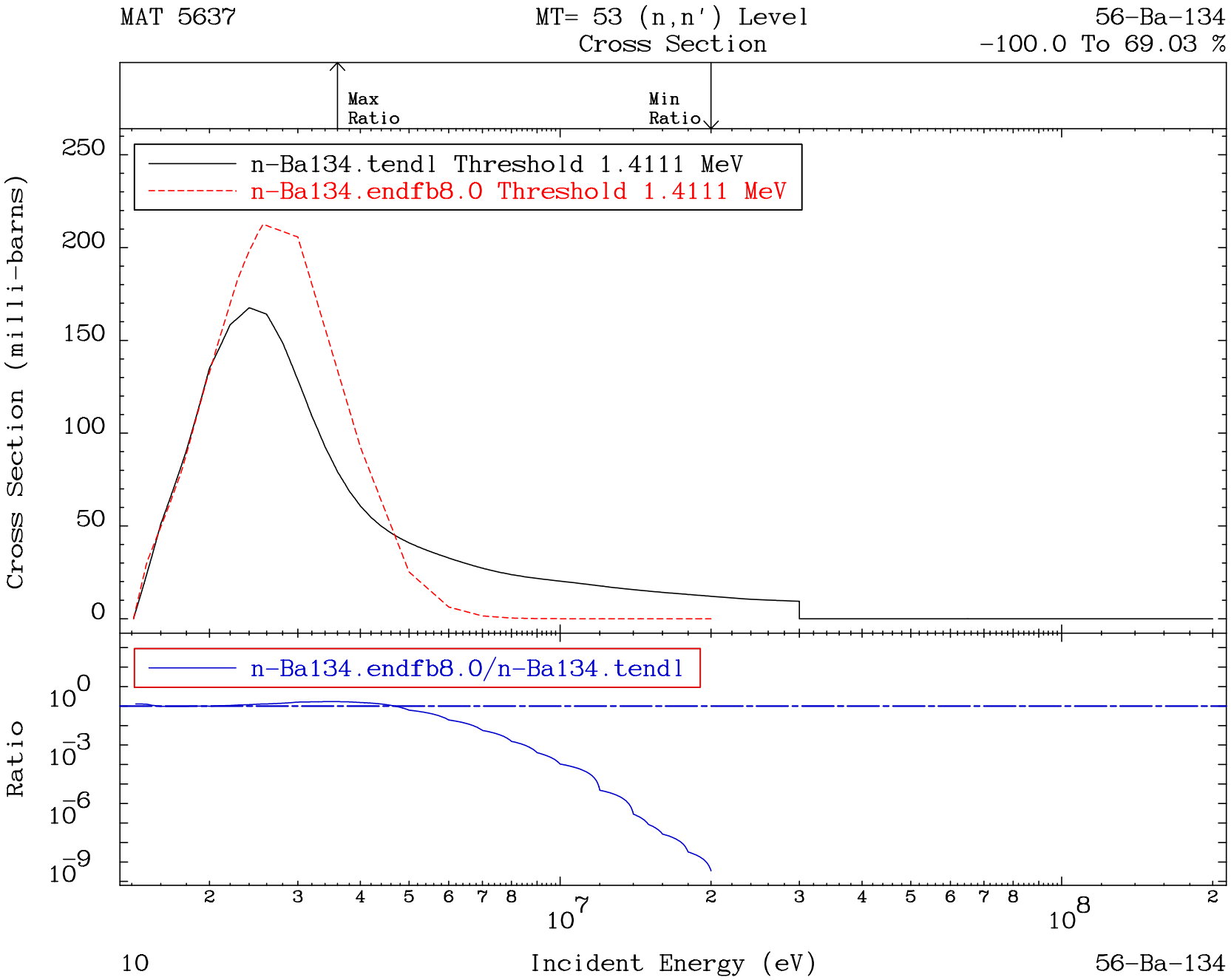

MAT 5637
(n,3n)
Cross Section
56-Ba-134
12.11 To 818.0 %
Max
Ratio
n-Ba134.tendl Threshold 16.783 MeV
n-Ba134.endfb8.0 Threshold 16.793 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
8
4
2
3
4
5
6
7
8
9
2
10^8
5
Incident Energy (eV)
56-Ba-134

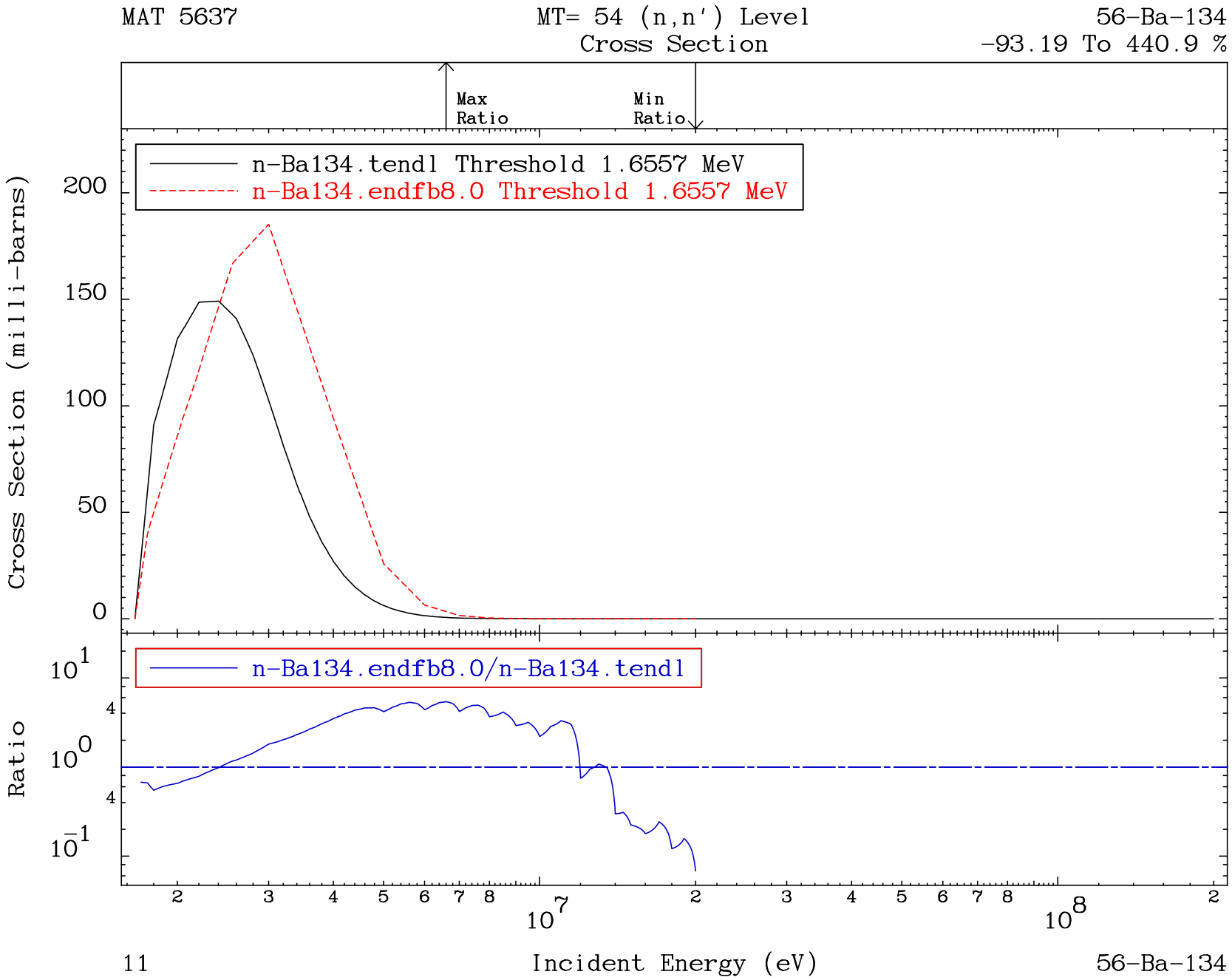

MAT 5637
(n,n') α
Cross Section
56-Ba-134
-27.38 To 9999. %
Max Ratio
Min Ratio
n-Ba134.tendl Threshold 1.5056 MeV
n-Ba134.endfb8.0 Threshold 1.5202 MeV
Cross Section (milli-barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
6
56-Ba-134

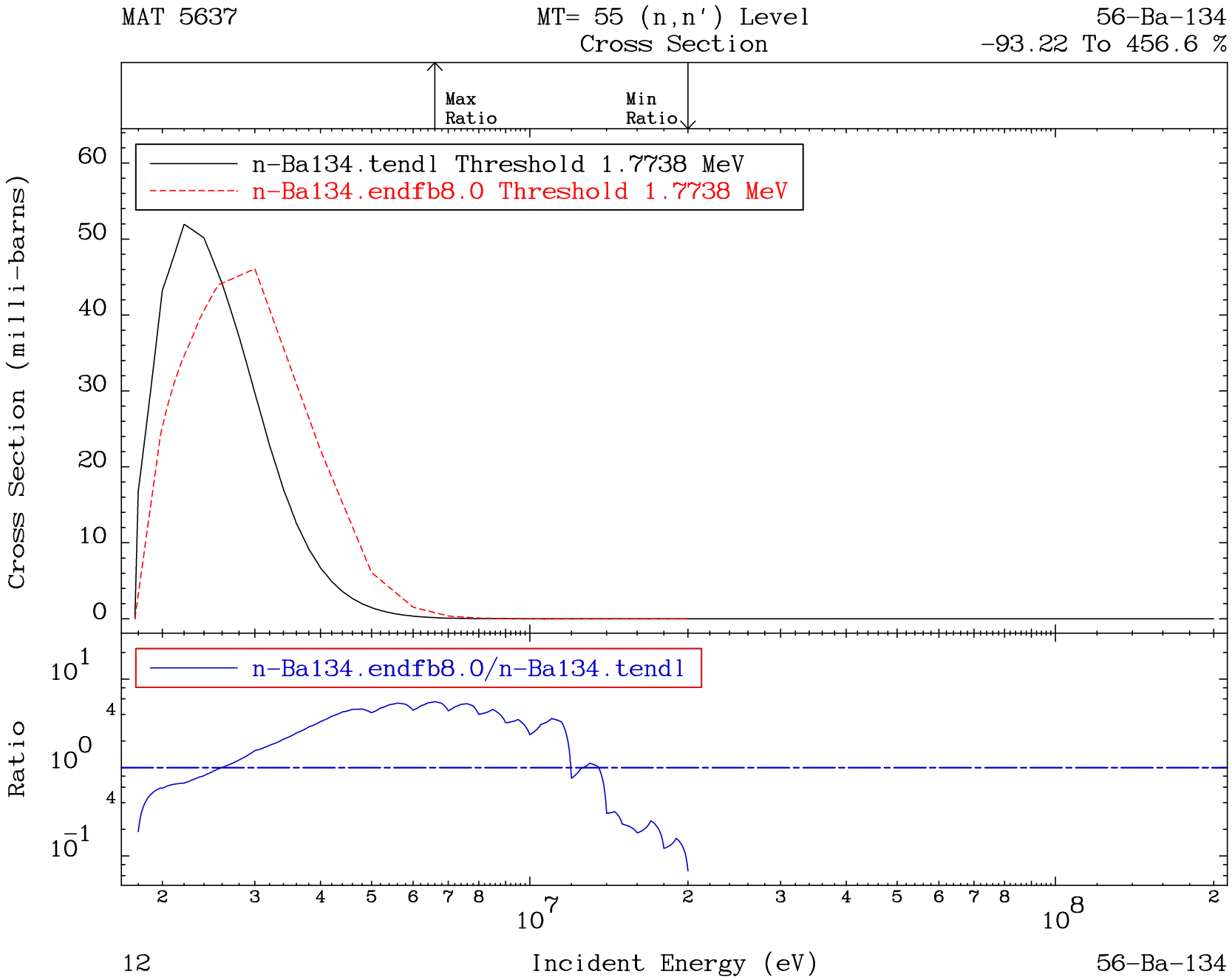

MAT 5637
(n,n') p
Cross Section
56-Ba-134
-100.0 To 13.55 %
Min Ratio
Max Ratio
n-Ba134.tendl Threshold 8.2294 MeV
n-Ba134.endfb8.0 Threshold 9.0000 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-3
10^-6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
56-Ba-134

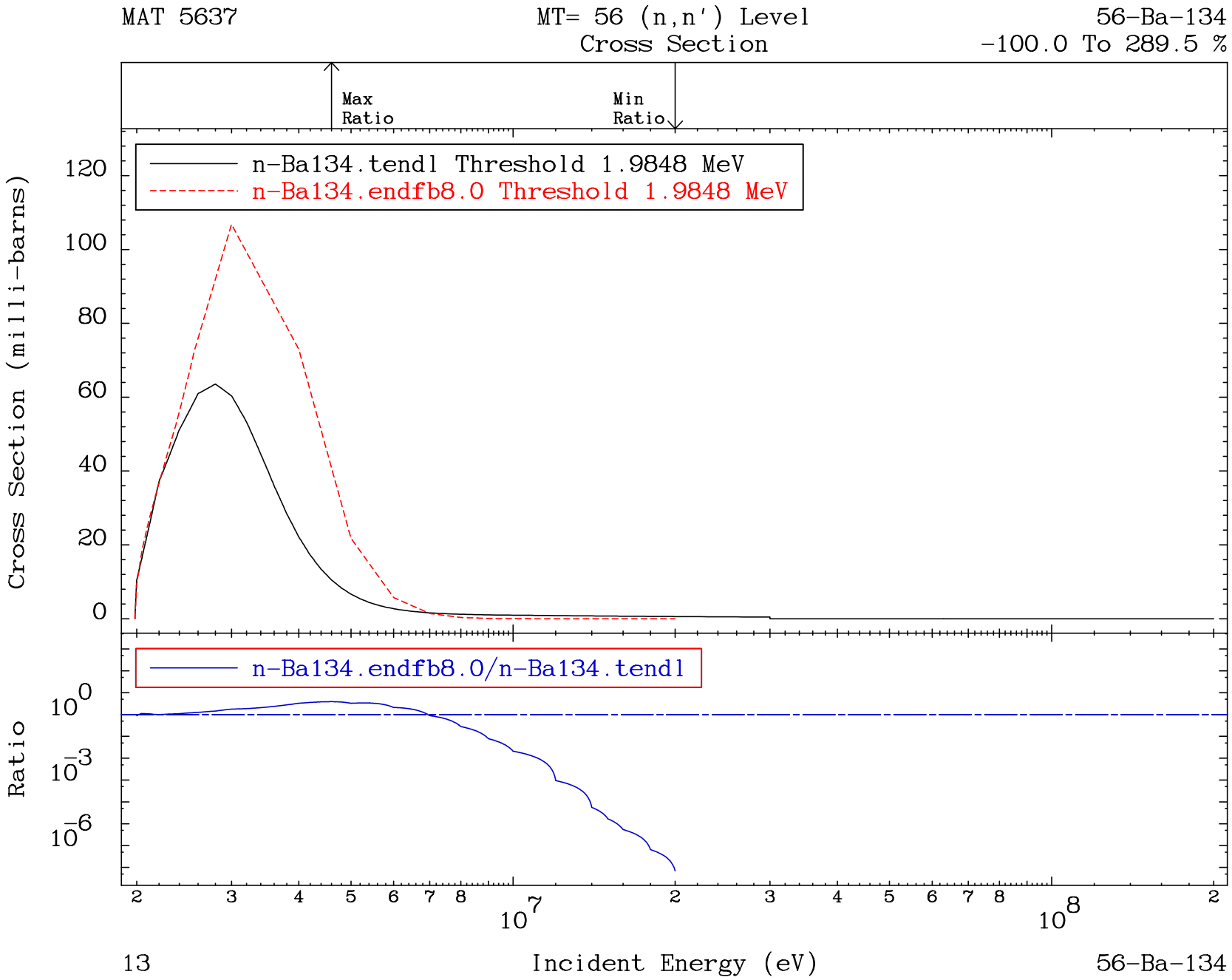

MAT 5637
MT= 51 (n,n') Level
Cross Section
56-Ba-134
-44.30 To 49.89 %
Min Ratio
Max Ratio
n-Ba134.tendl Threshold 609.28 keV
n-Ba134.endfb8.0 Threshold 609.28 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
1.6
1.2
0.8
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
56-Ba-134

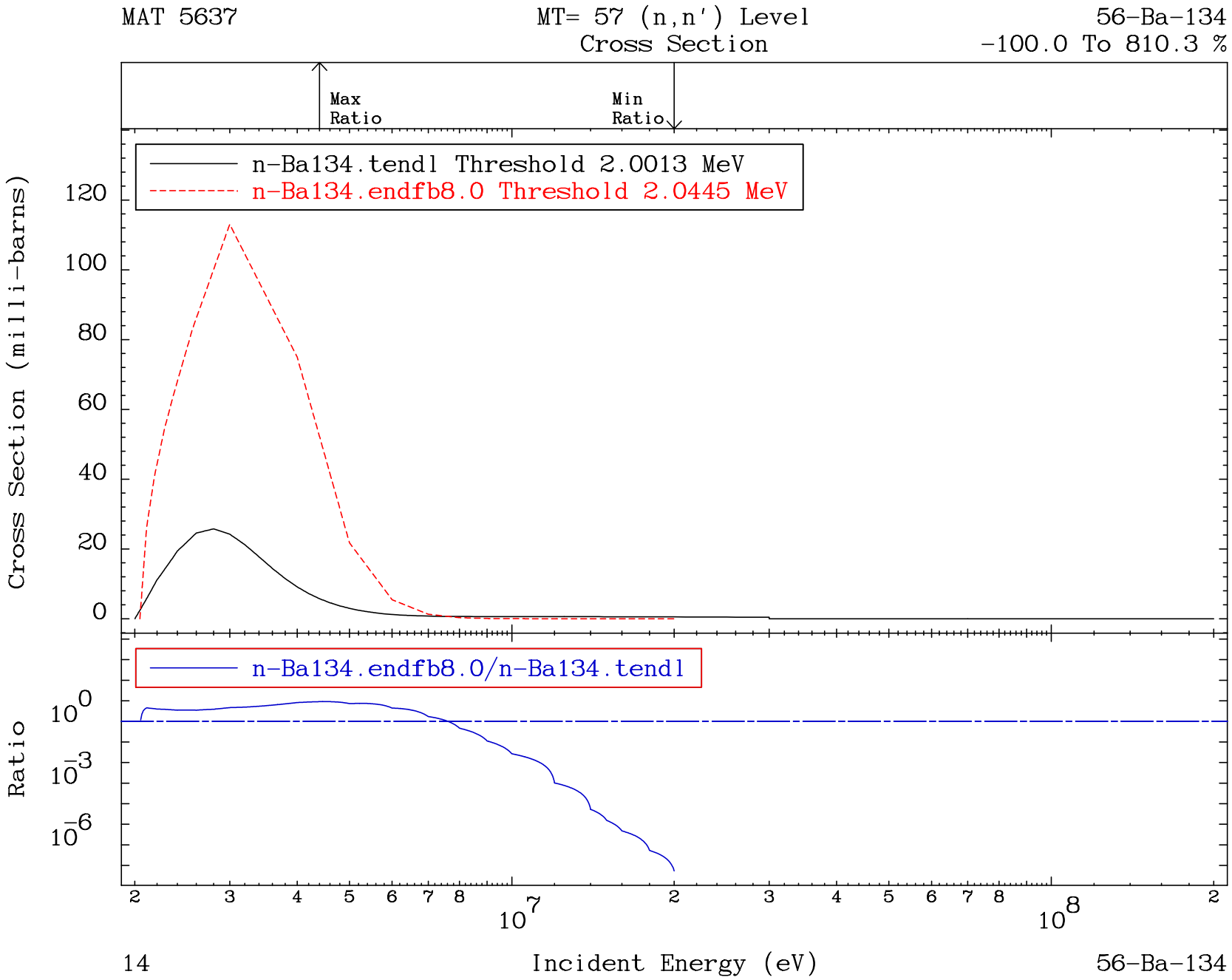

MAT 5637
MT= 52 (n,n') Level
Cross Section
56-Ba-134
-100.0 To 262.7 %
Max
Ratio
Min
Ratio
n-Ba134.tendl Threshold 1.1768 MeV
n-Ba134.endfb8.0 Threshold 1.1768 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
9
Incident Energy (eV)
56-Ba-134

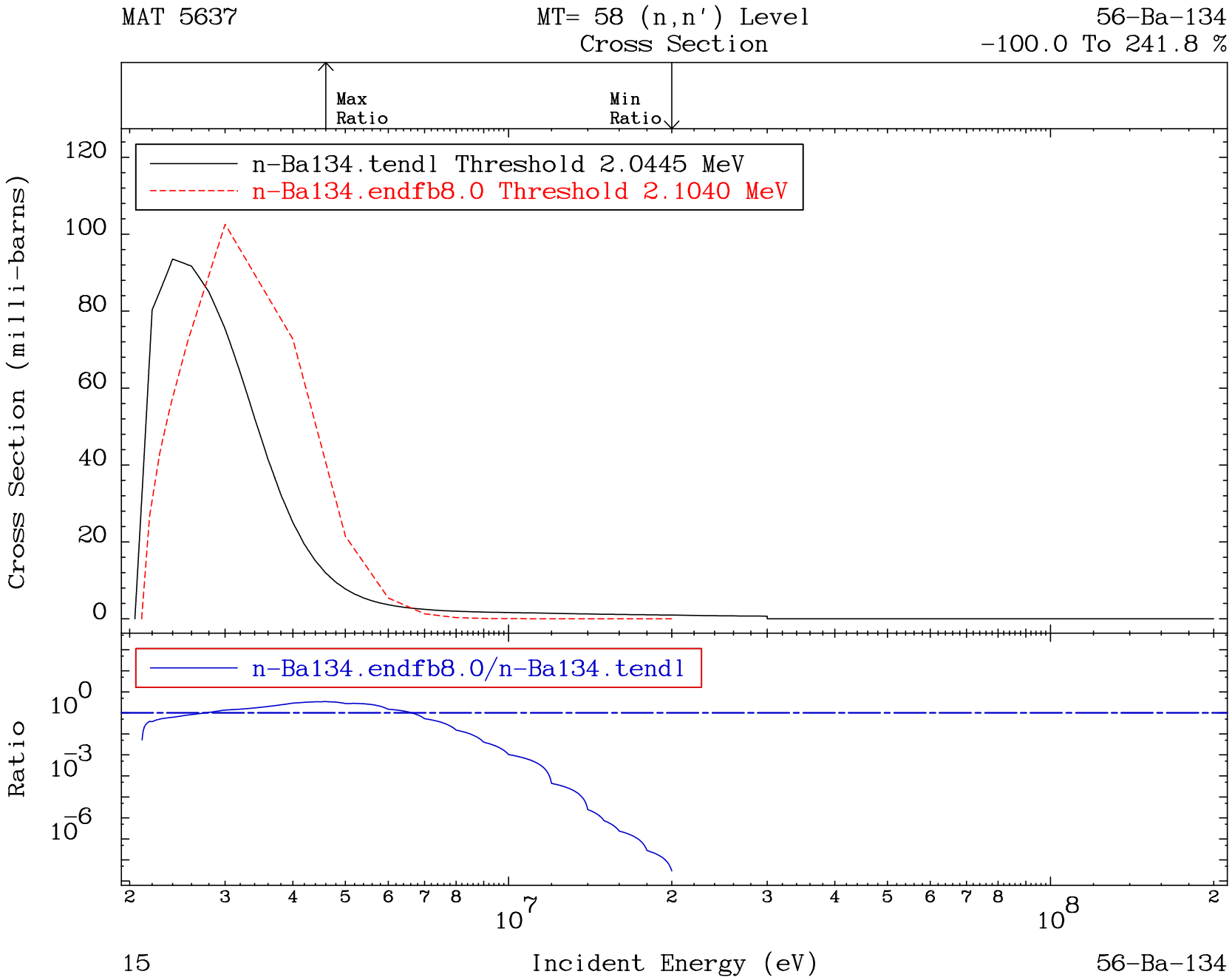

MAT 5637
MT= 53 (n,n') Level
Cross Section
56-Ba-134
-100.0 To 69.03 %
Max
Ratio
Min
Ratio
n-Ba134.tendl Threshold 1.4111 MeV
n-Ba134.endfb8.0 Threshold 1.4111 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
56-Ba-134

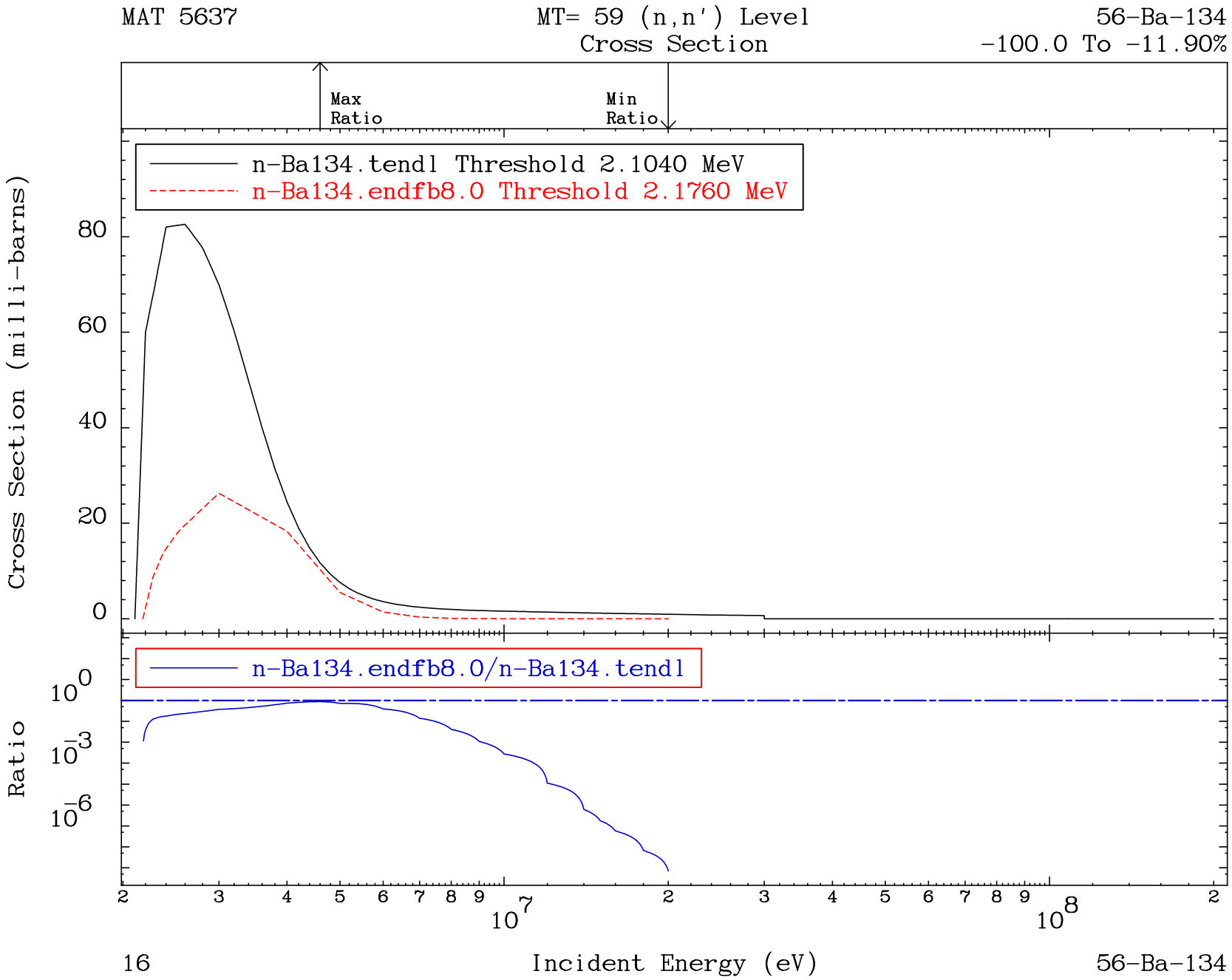

MAT 5637
MT= 54 (n,n') Level
Cross Section
56-Ba-134
-93.19 To 440.9 %
Max
Ratio
Min
Ratio
n-Ba134.tendl Threshold 1.6557 MeV
n-Ba134.endfb8.0 Threshold 1.6557 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^1
10^0
10^-1
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
56-Ba-134

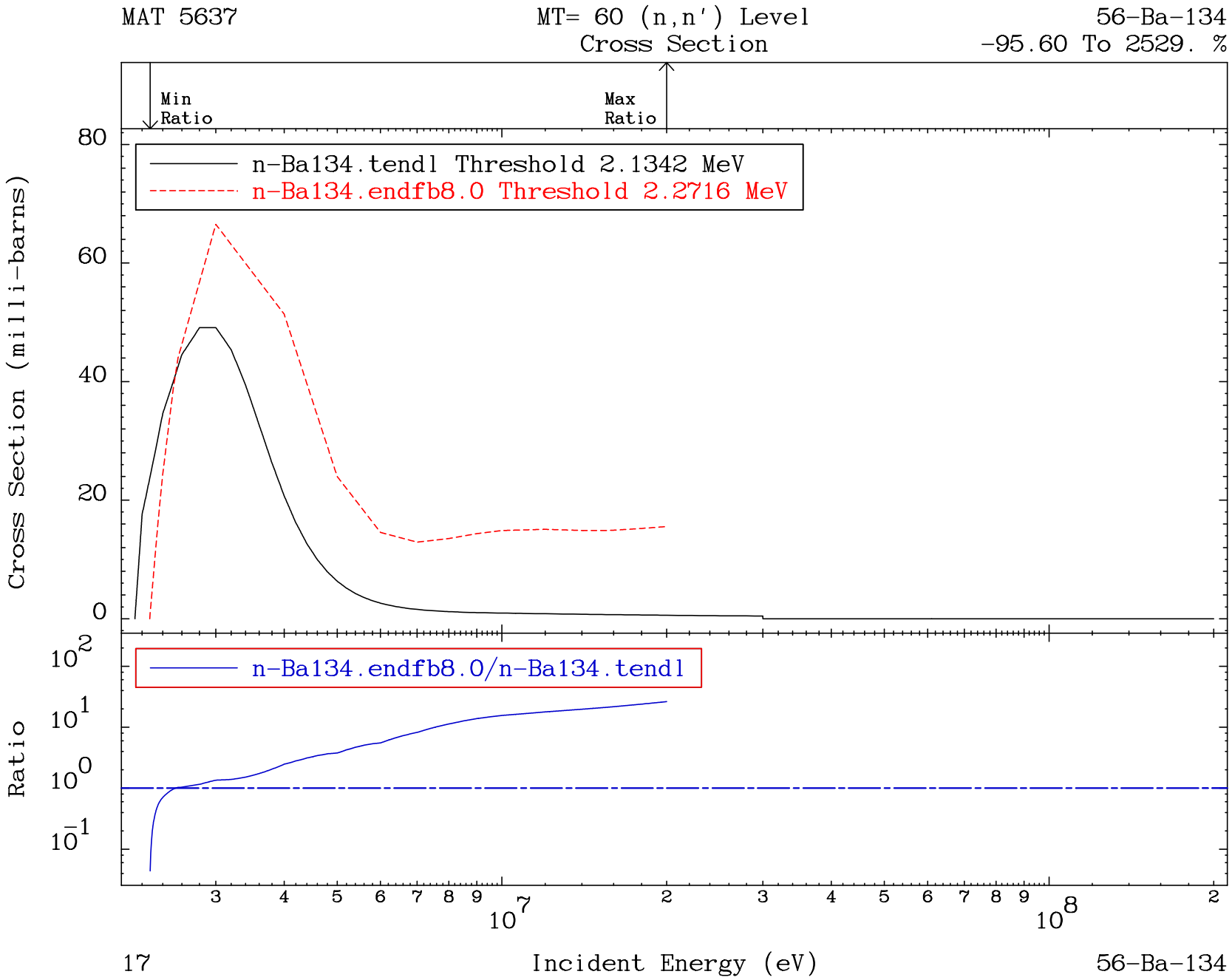

MAT 5637
MT= 55 (n,n') Level
Cross Section
56-Ba-134
-93.22 To 456.6 %
Max Ratio
Min Ratio
n-Ba134.tendl Threshold 1.7738 MeV
n-Ba134.endfb8.0 Threshold 1.7738 MeV
Cross Section (milli-barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
12
56-Ba-134

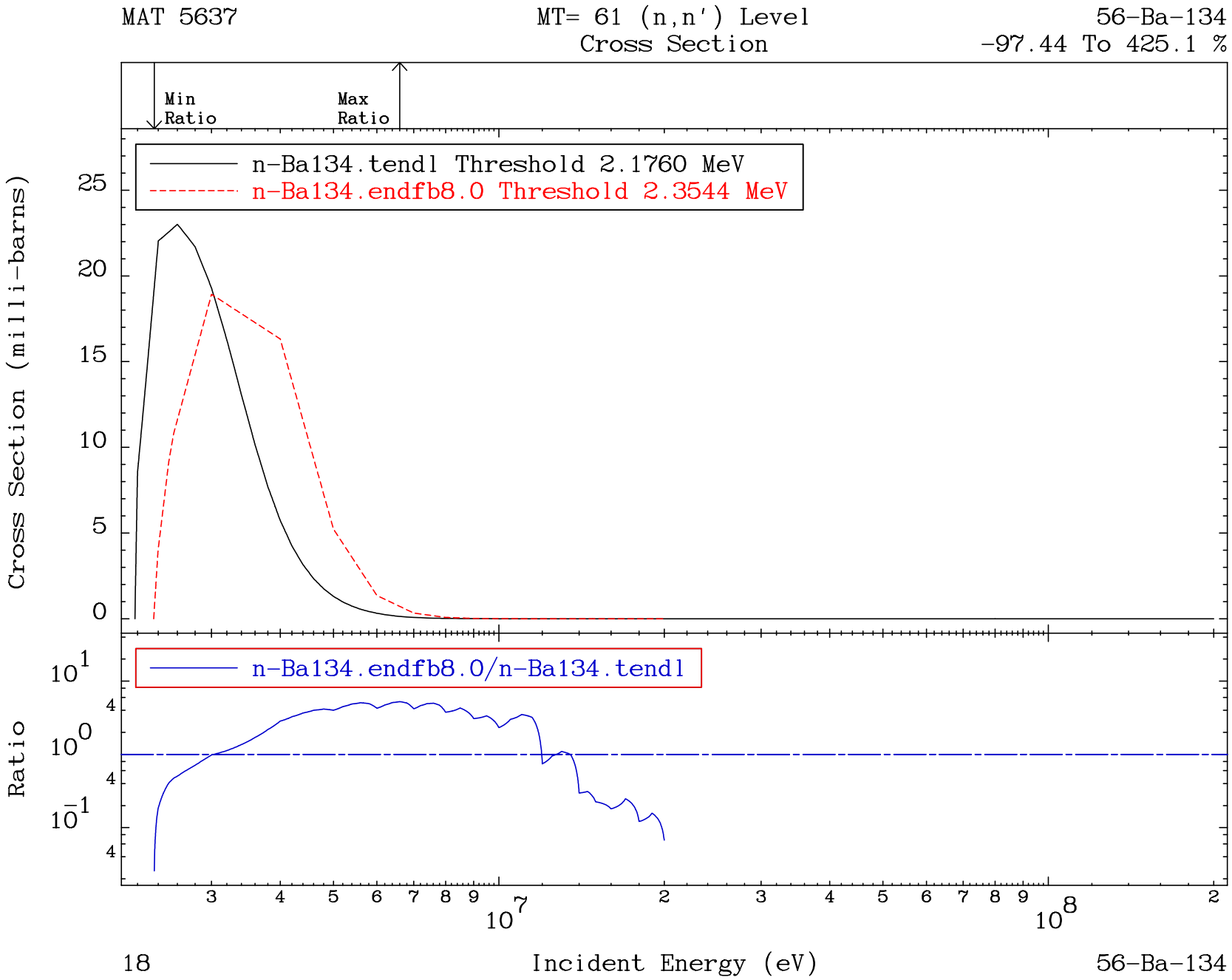

MAT 5637
MT= 56 (n,n') Level
Cross Section
56-Ba-134
-100.0 To 289.5 %
Max
Ratio
Min
Ratio
n-Ba134.tendl Threshold 1.9848 MeV
n-Ba134.endfb8.0 Threshold 1.9848 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
56-Ba-134

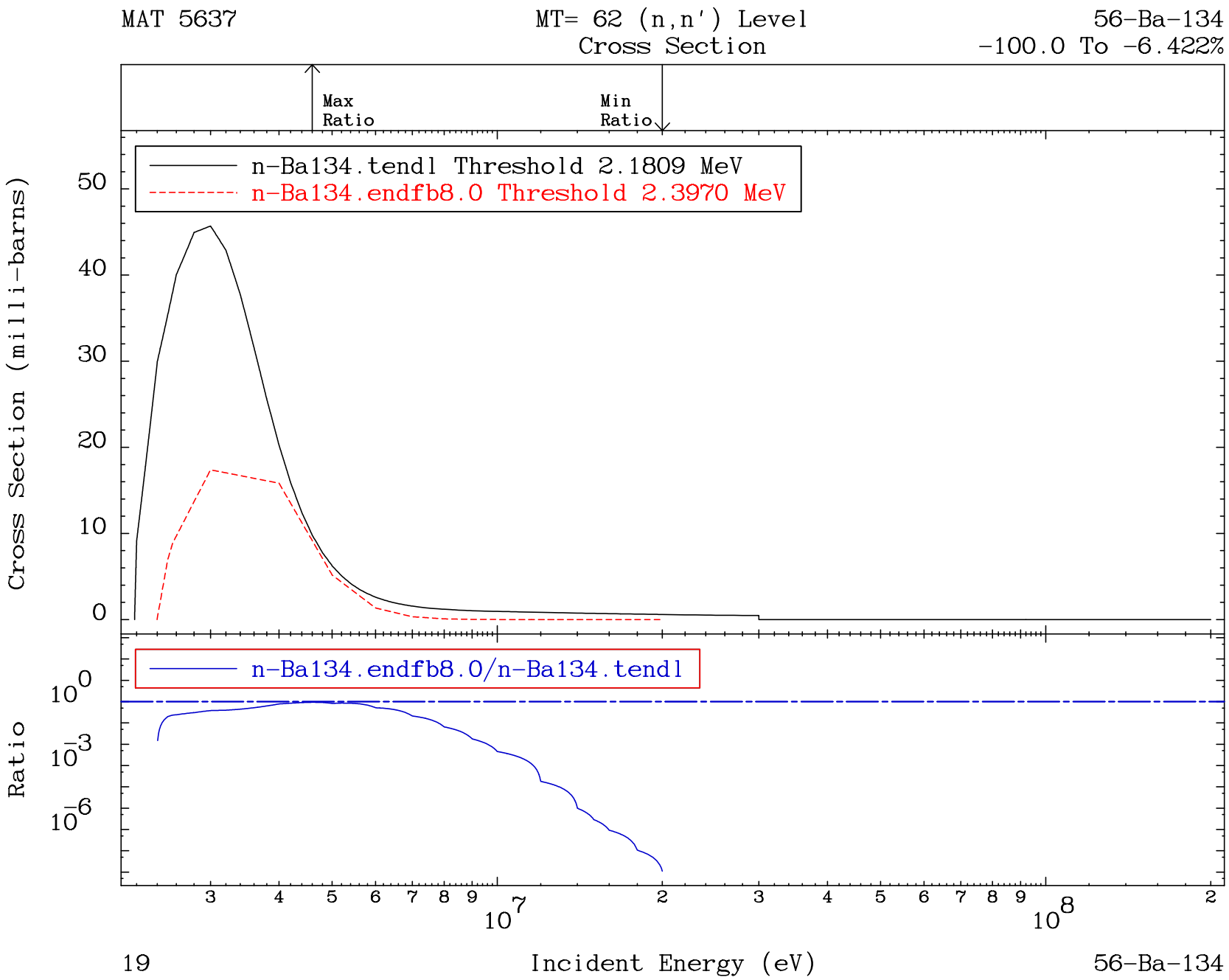

MAT 5637
MT= 57 (n,n') Level
Cross Section
56-Ba-134
-100.0 To 810.3 %
Max
Ratio
Min
Ratio
n-Ba134.tendl Threshold 2.0013 MeV
n-Ba134.endfb8.0 Threshold 2.0445 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
56-Ba-134

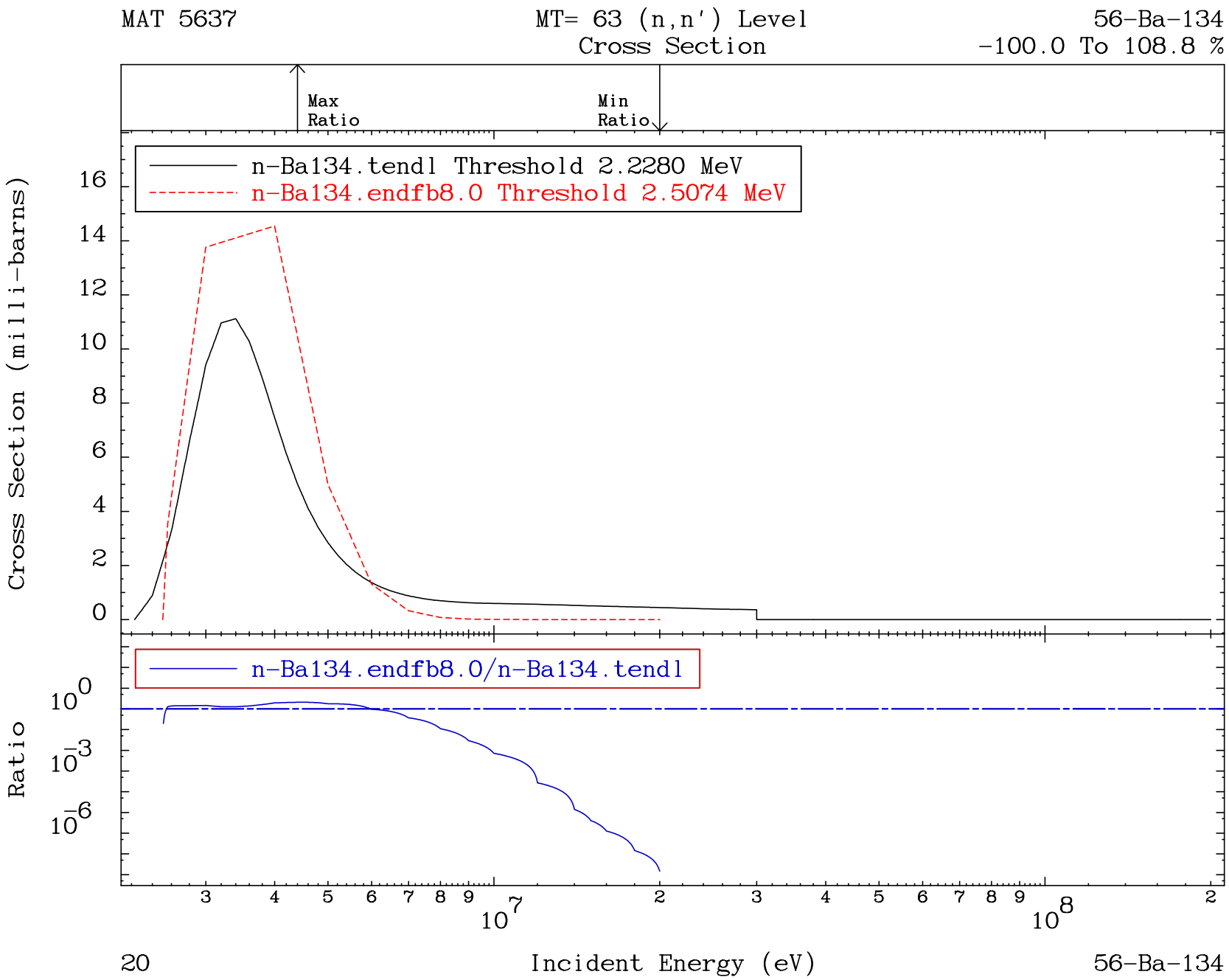

MAT 5637
MT= 58 (n,n') Level
Cross Section
56-Ba-134
-100.0 To 241.8 %
Max
Ratio
Min
Ratio
n-Ba134.tendl Threshold 2.0445 MeV
n-Ba134.endfb8.0 Threshold 2.1040 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
56-Ba-134

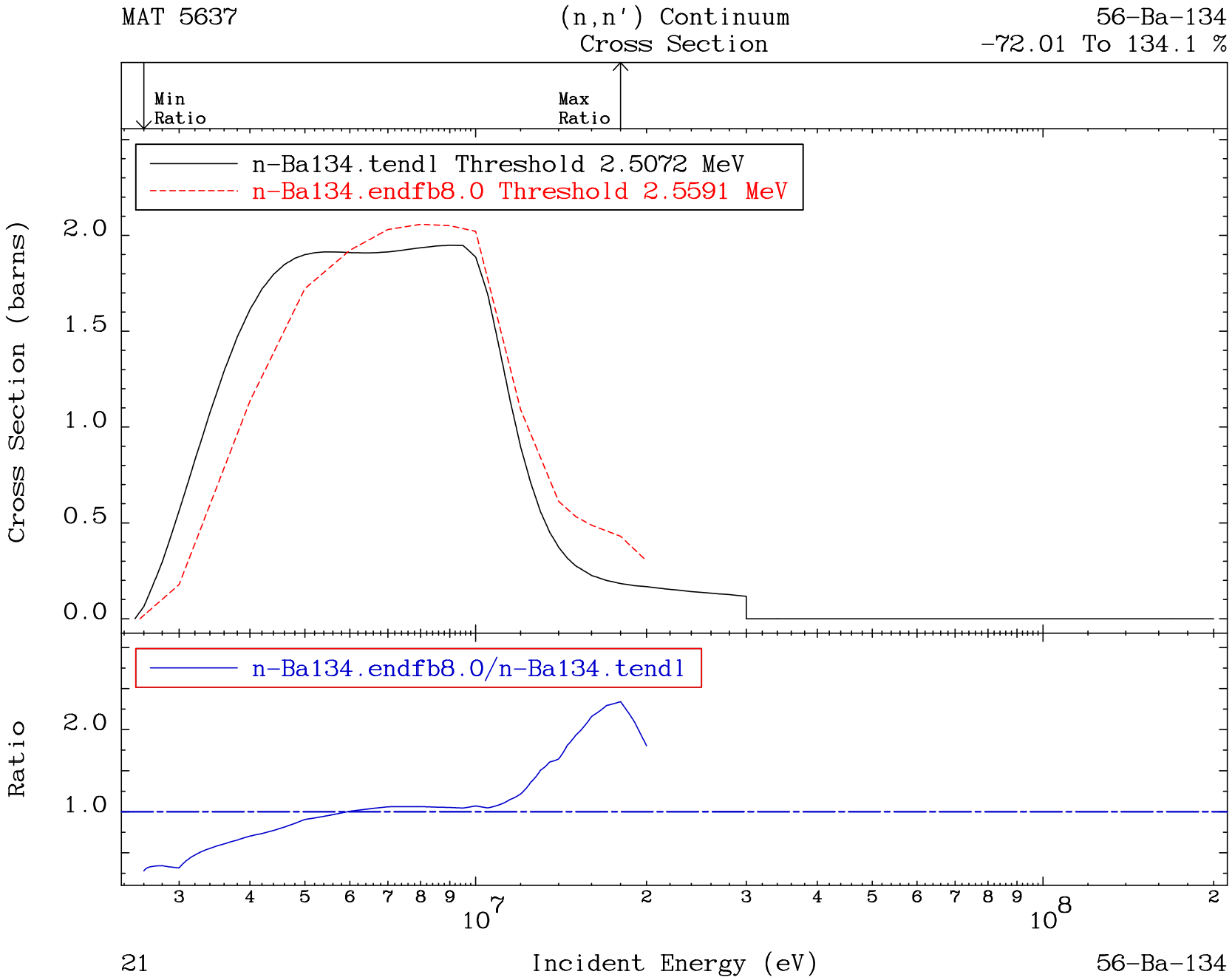

MAT 5637
MT= 59 (n,n') Level
Cross Section
56-Ba-134
-100.0 To -11.90%
Max
Ratio
Min
Ratio
n-Ba134.tendl Threshold 2.1040 MeV
n-Ba134.endfb8.0 Threshold 2.1760 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
56-Ba-134

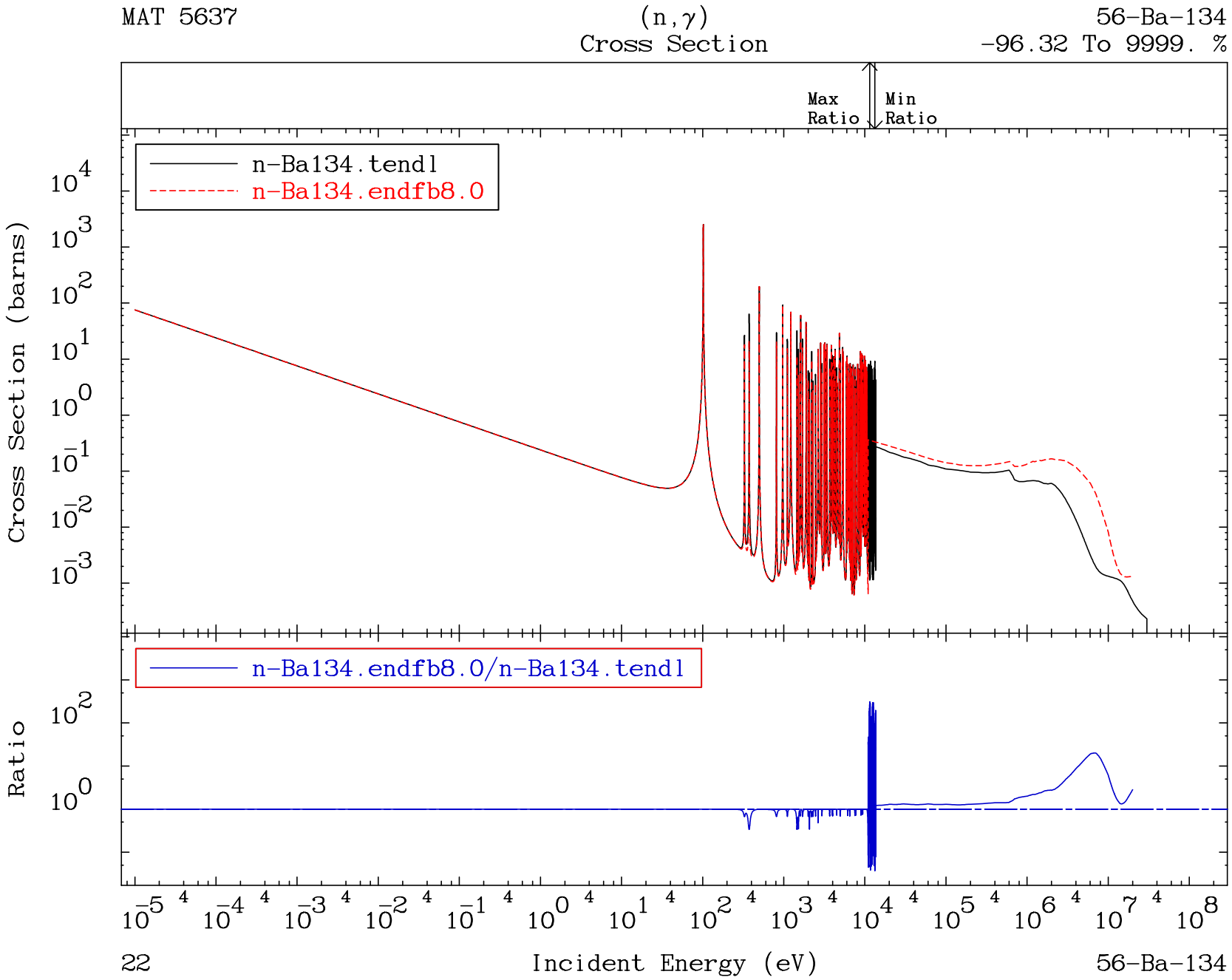

MAT 5637
MT= 60 (n,n') Level
Cross Section
56-Ba-134
-95.60 To 2529. %
Min Ratio
Max Ratio
n-Ba134.tendl Threshold 2.1342 MeV
n-Ba134.endfb8.0 Threshold 2.2716 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^2
10^1
10^0
10^-1
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
56-Ba-134

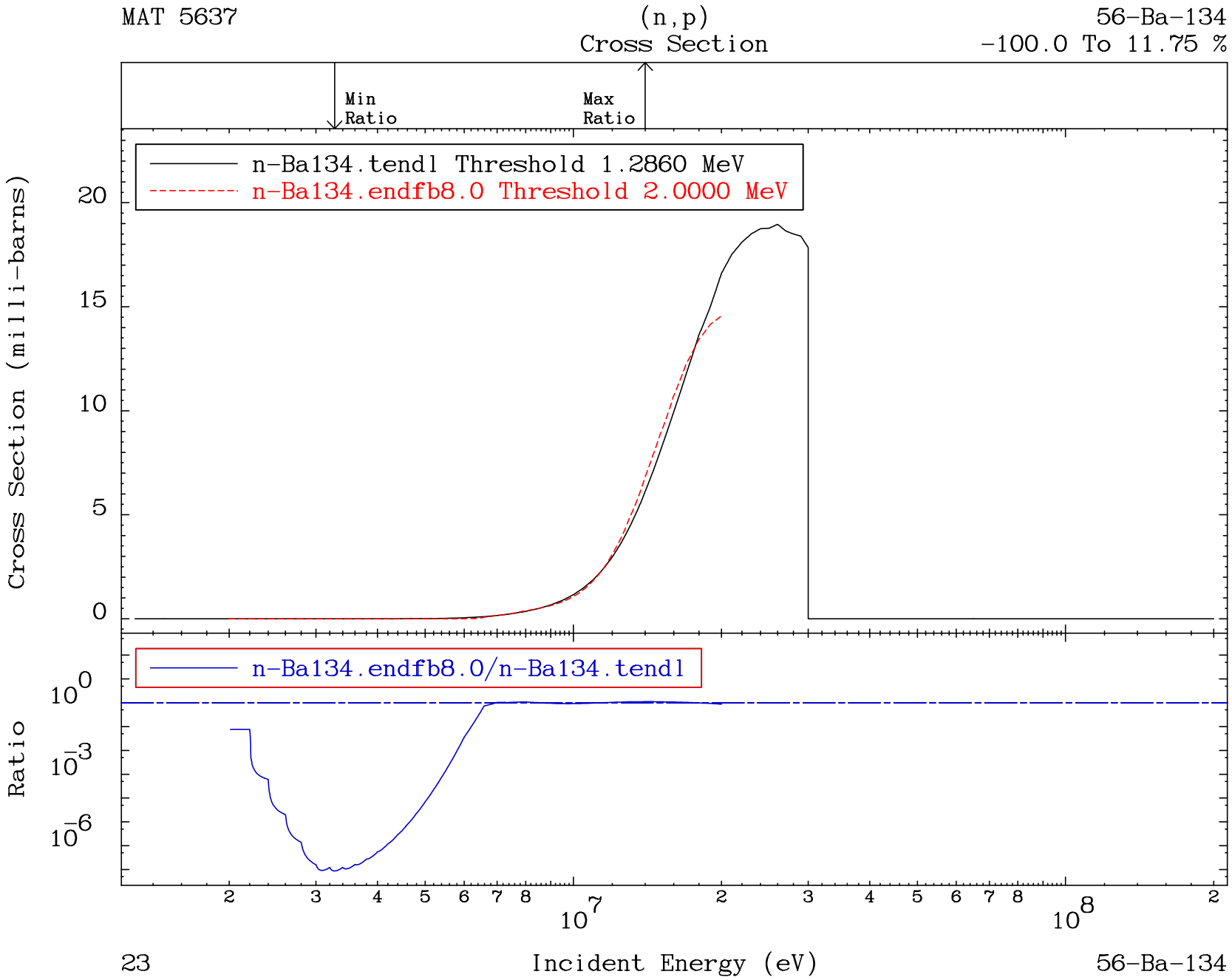

MAT 5637
MT= 61 (n,n') Level
Cross Section
56-Ba-134
-97.44 To 425.1 %
Min Ratio
Max Ratio
n-Ba134.tendl Threshold 2.1760 MeV
n-Ba134.endfb8.0 Threshold 2.3544 MeV
Cross Section (milli-barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
18
56-Ba-134

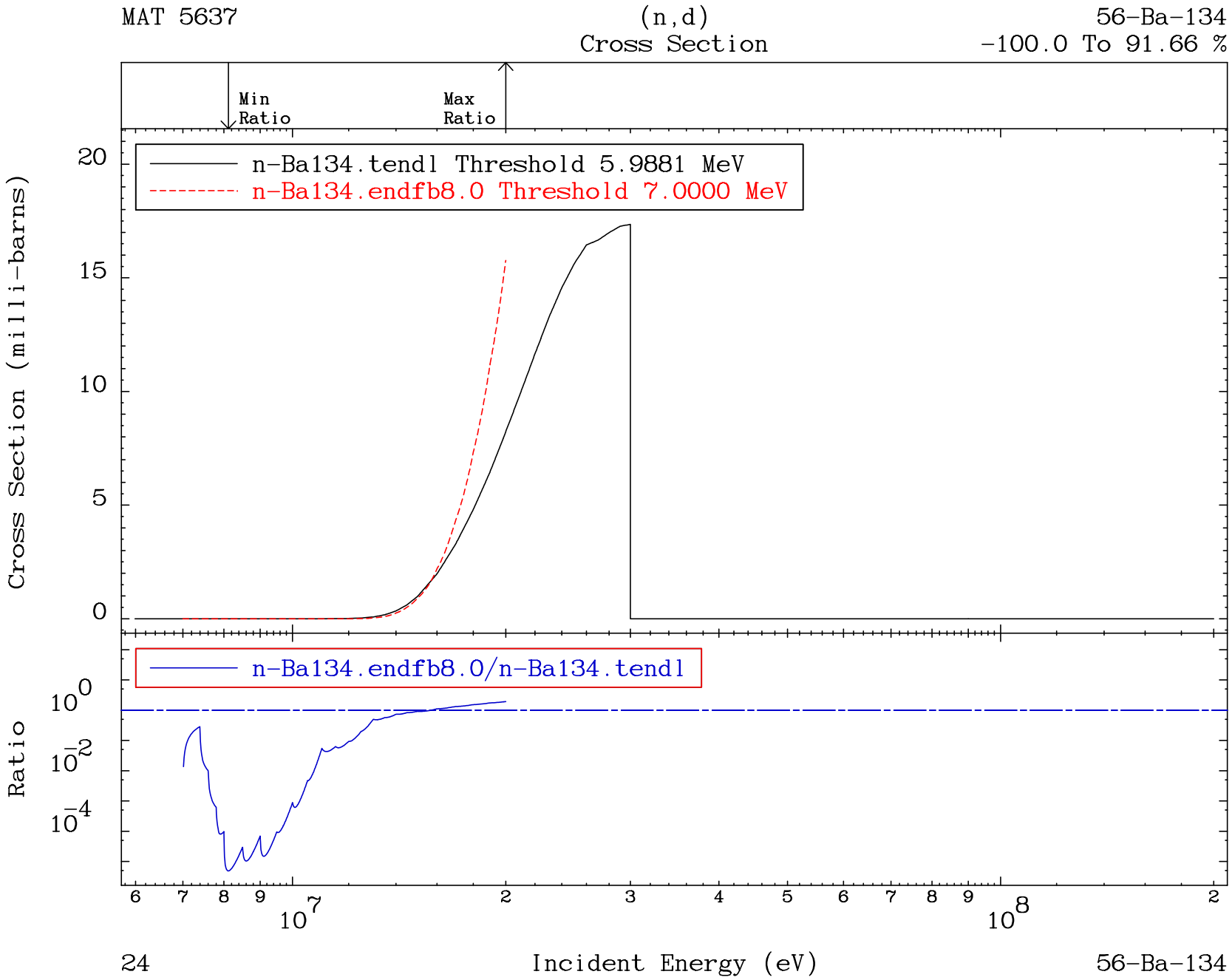

MAT 5637
MT= 62 (n,n') Level
Cross Section
56-Ba-134
-100.0 To -6.422%
Max Ratio
Min Ratio
n-Ba134.tendl Threshold 2.1809 MeV
n-Ba134.endfb8.0 Threshold 2.3970 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-3
10^-6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
56-Ba-134

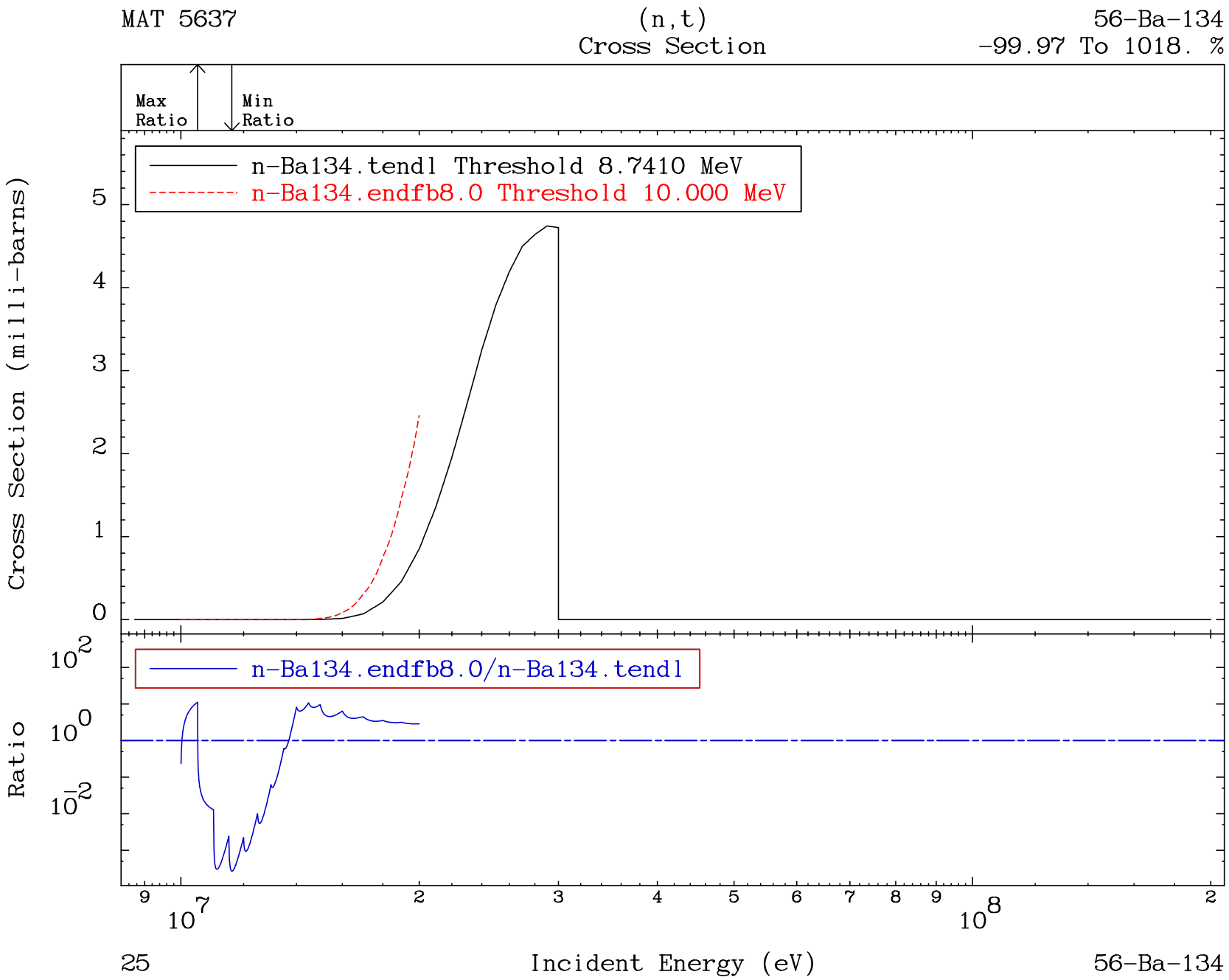

MAT 5637
MT= 63 (n,n') Level
Cross Section
56-Ba-134
-100.0 To 108.8 %
Max
Ratio
Min
Ratio
n-Ba134.tendl Threshold 2.2280 MeV
n-Ba134.endfb8.0 Threshold 2.5074 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-3
10^-6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
56-Ba-134

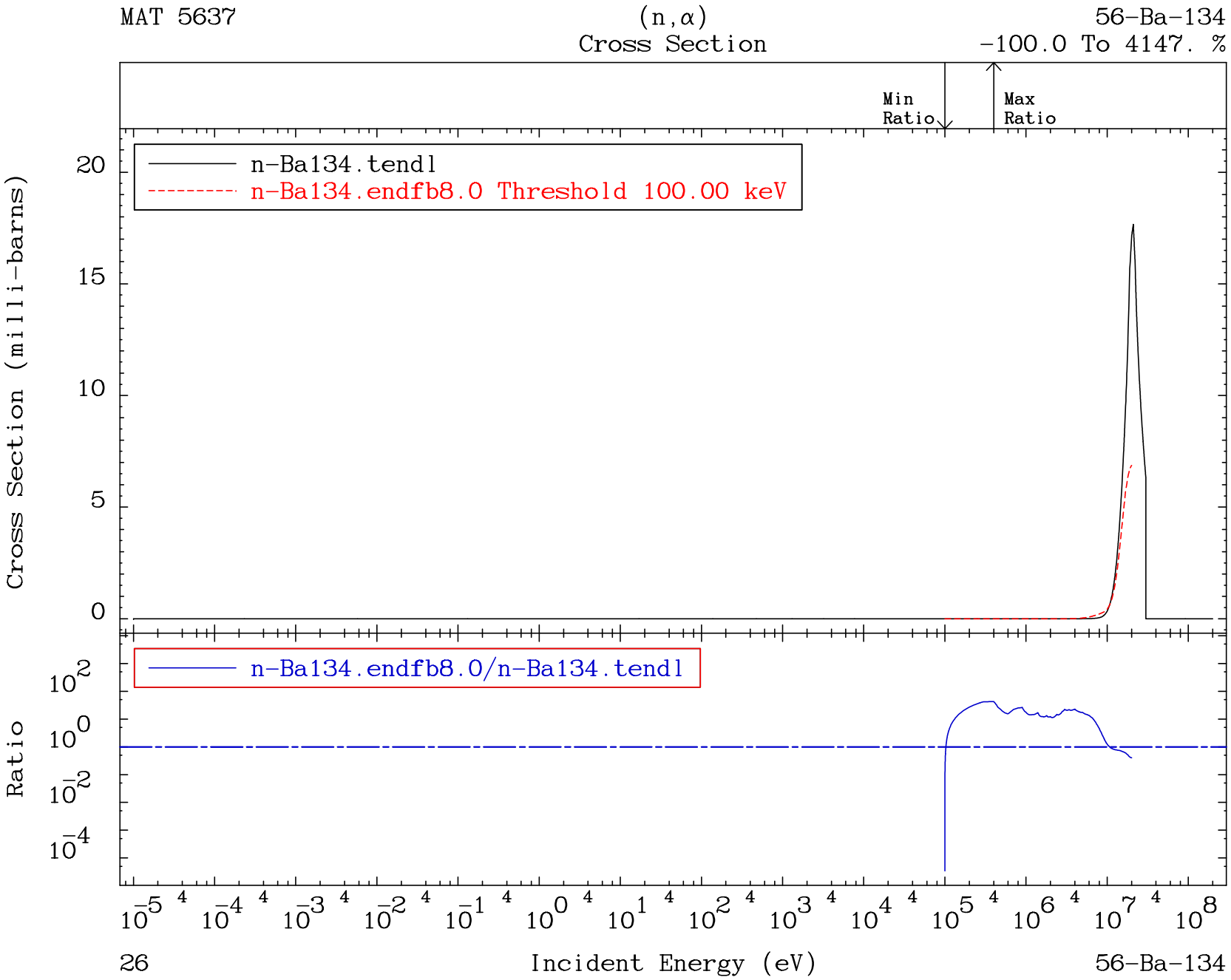

MAT 5637
(n,n') Continuum
Cross Section
56-Ba-134
-72.01 To 134.1 %
Min Ratio
Max Ratio
n-Ba134.tendl Threshold 2.5072 MeV
n-Ba134.endfb8.0 Threshold 2.5591 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
2.0
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
56-Ba-134

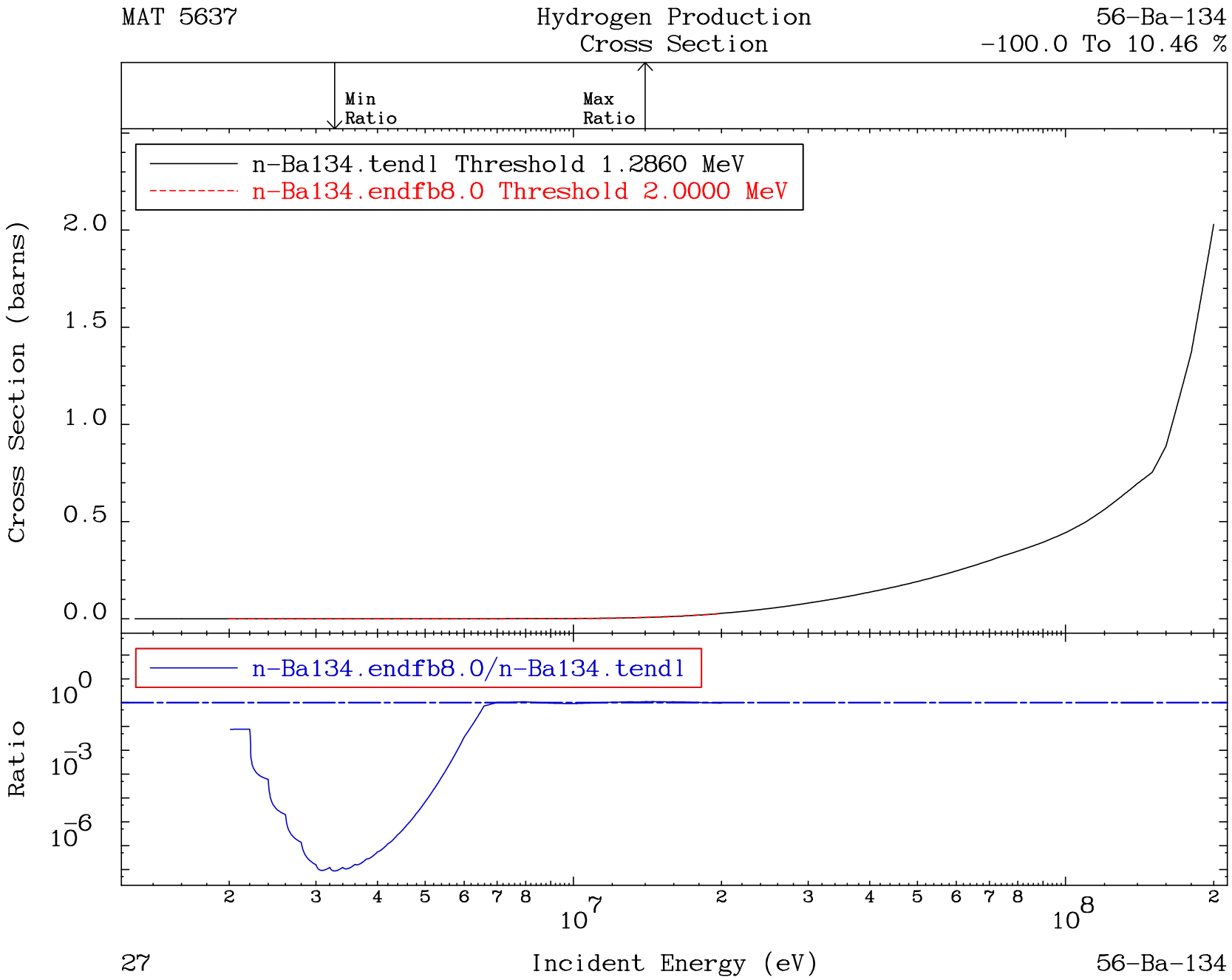

MAT 5637
(n,γ)
Cross Section
56-Ba-134
-96.32 To 9999. %
Max Ratio
Min Ratio
n-Ba134.tendl
n-Ba134.endfb8.0
Cross Section (barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
22
Incident Energy (eV)
56-Ba-134

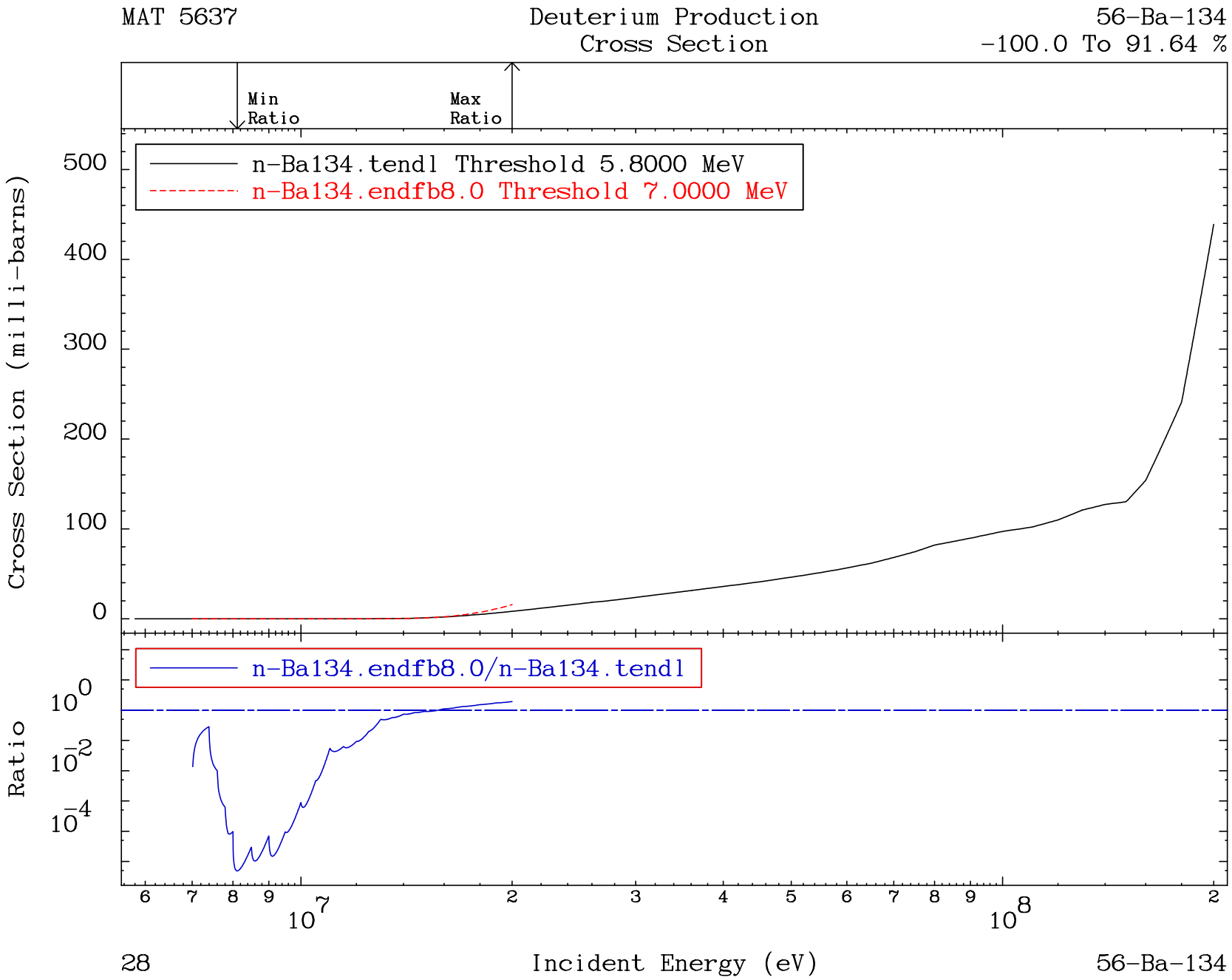

MAT 5637
(n,p)
Cross Section
56-Ba-134
-100.0 To 11.75 %
Min Ratio
Max Ratio
n-Ba134.tendl Threshold 1.2860 MeV
n-Ba134.endfb8.0 Threshold 2.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
56-Ba-134

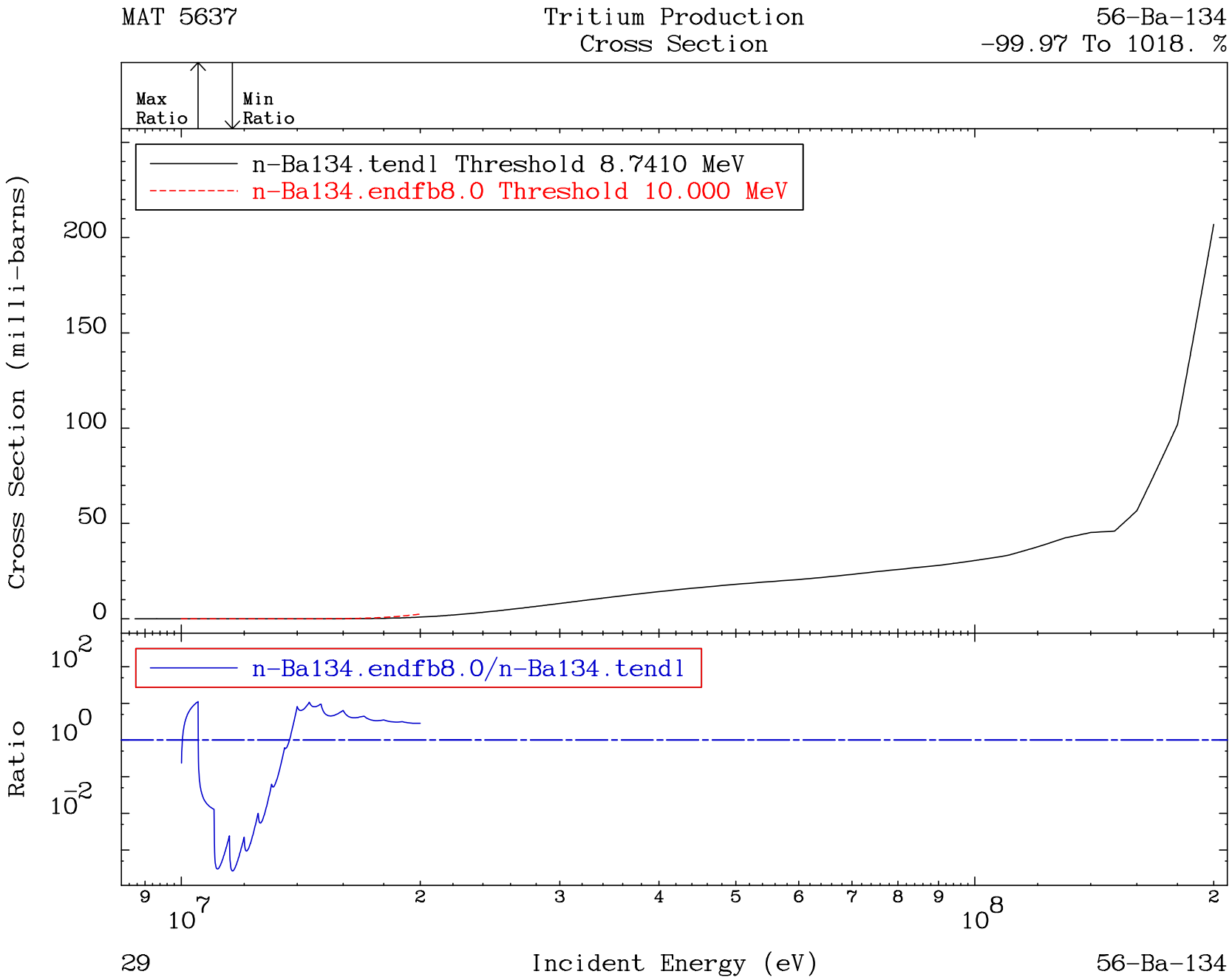

MAT 5637
(n,d)
Cross Section
56-Ba-134
-100.0 To 91.66 %
Min Ratio
Max Ratio
n-Ba134.tendl Threshold 5.9881 MeV
n-Ba134.endfb8.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-2
10^-4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
56-Ba-134

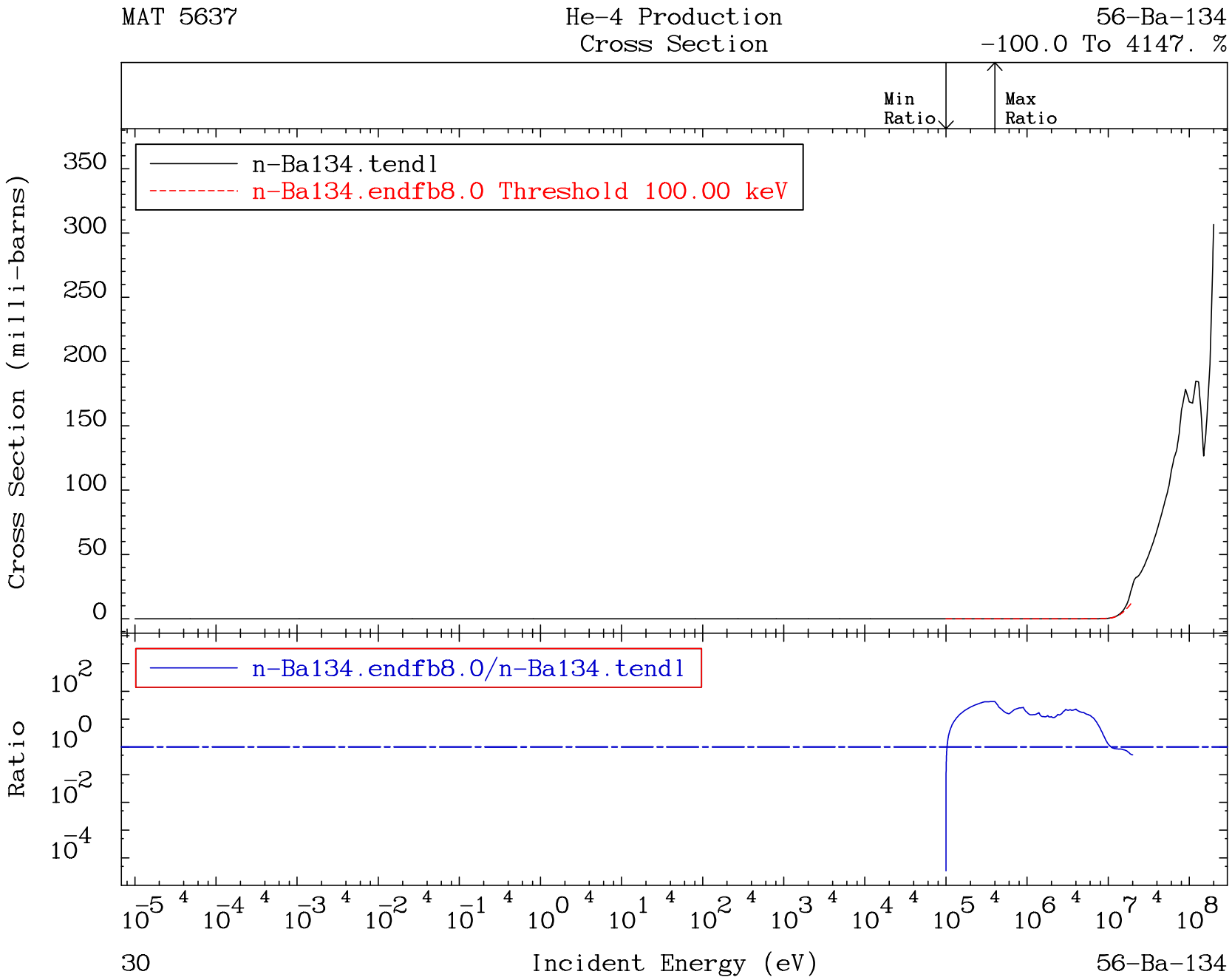

MAT 5637
(n,t)
Cross Section
56-Ba-134
-99.97 To 1018. %
Max Ratio
Min Ratio
n-Ba134.tendl Threshold 8.7410 MeV
n-Ba134.endfb8.0 Threshold 10.000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^2
10^0
10^-2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
25
Incident Energy (eV)
56-Ba-134

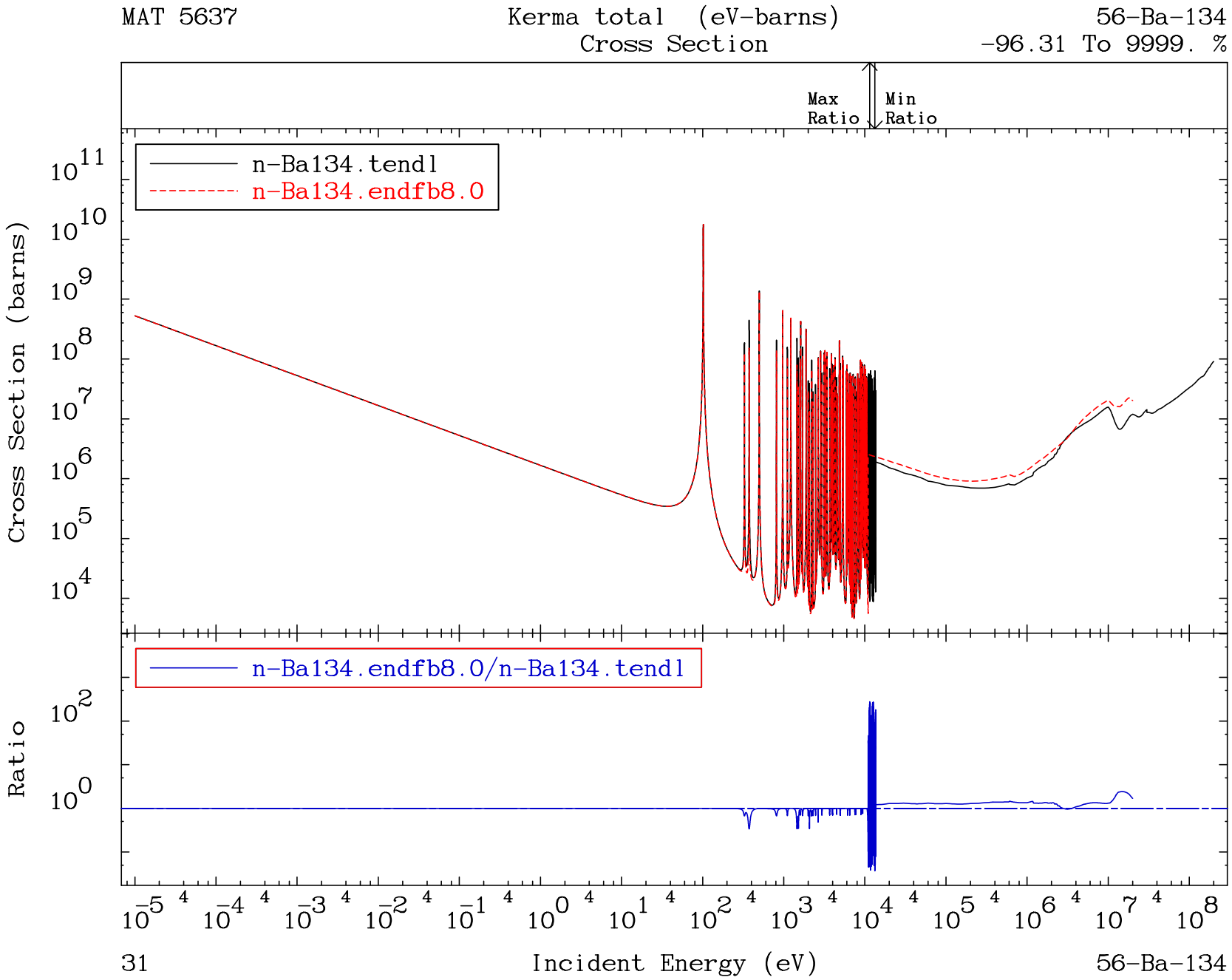

MAT 5637
(n,α)
Cross Section
56-Ba-134
-100.0 To 4147. %
Min Ratio
Max Ratio
n-Ba134.tendl
n-Ba134.endfb8.0 Threshold 100.00 keV
Cross Section (milli-barns)
20
15
10
5
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^2
10^0
10^-2
10^-4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
26
Incident Energy (eV)
56-Ba-134

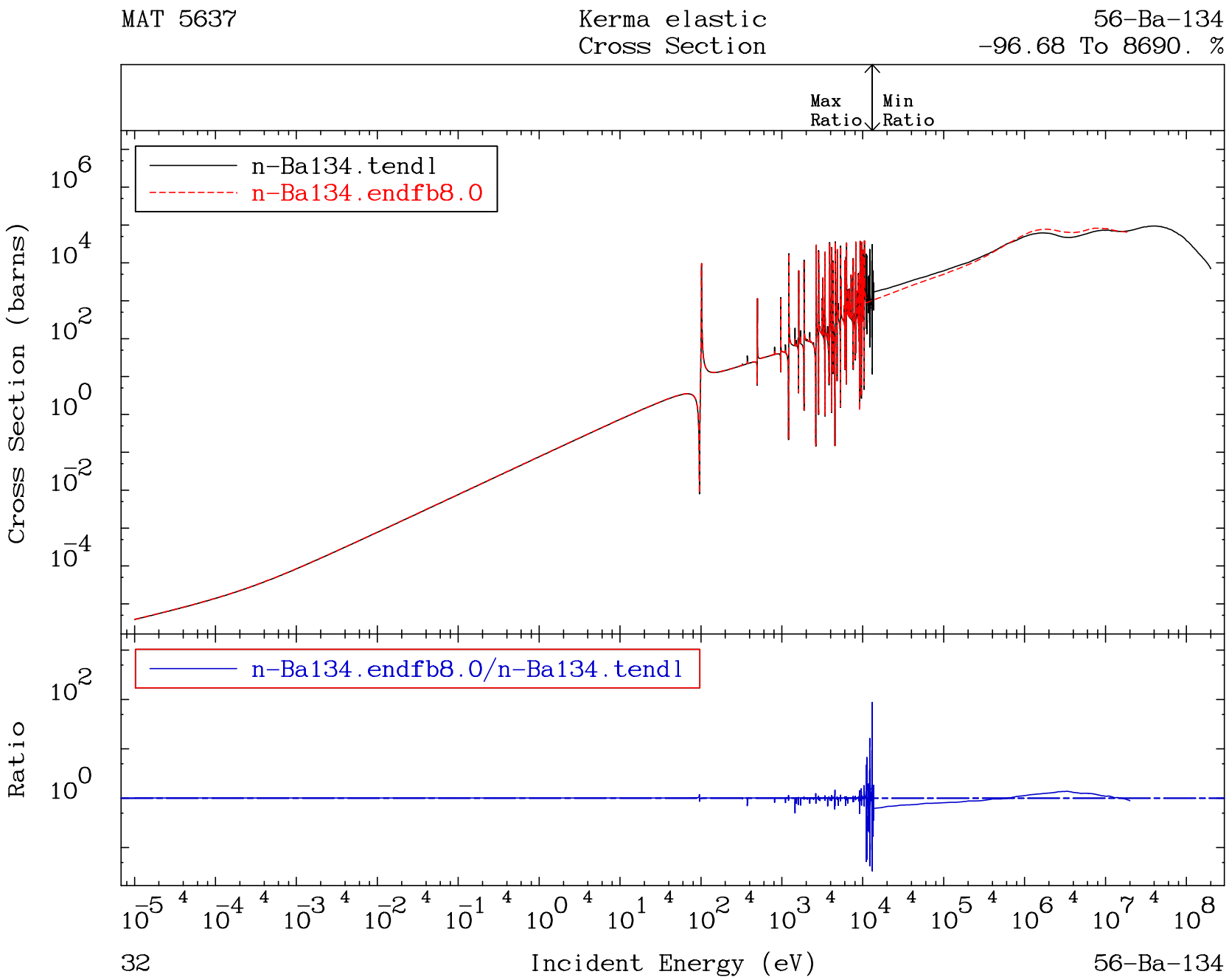

MAT 5637
Hydrogen Production
Cross Section
56-Ba-134
-100.0 To 10.46 %
Min Ratio
Max Ratio
n-Ba134.tendl Threshold 1.2860 MeV
n-Ba134.endfb8.0 Threshold 2.0000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
56-Ba-134

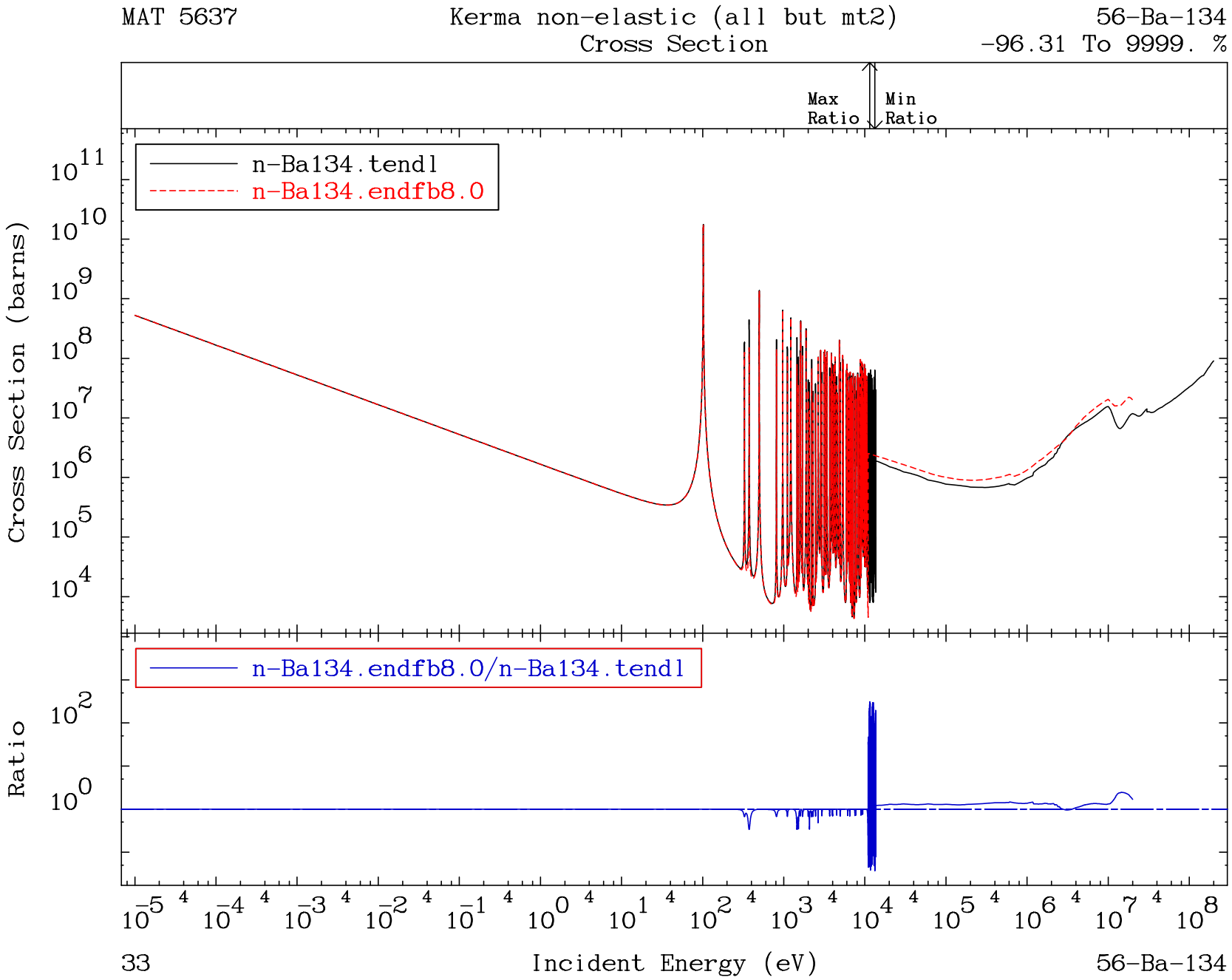

MAT 5637
Deuterium Production
Cross Section
56-Ba-134
-100.0 To 91.64 %
Min Ratio
Max Ratio
n-Ba134.tendl Threshold 5.8000 MeV
n-Ba134.endfb8.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-2
10^-4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
56-Ba-134

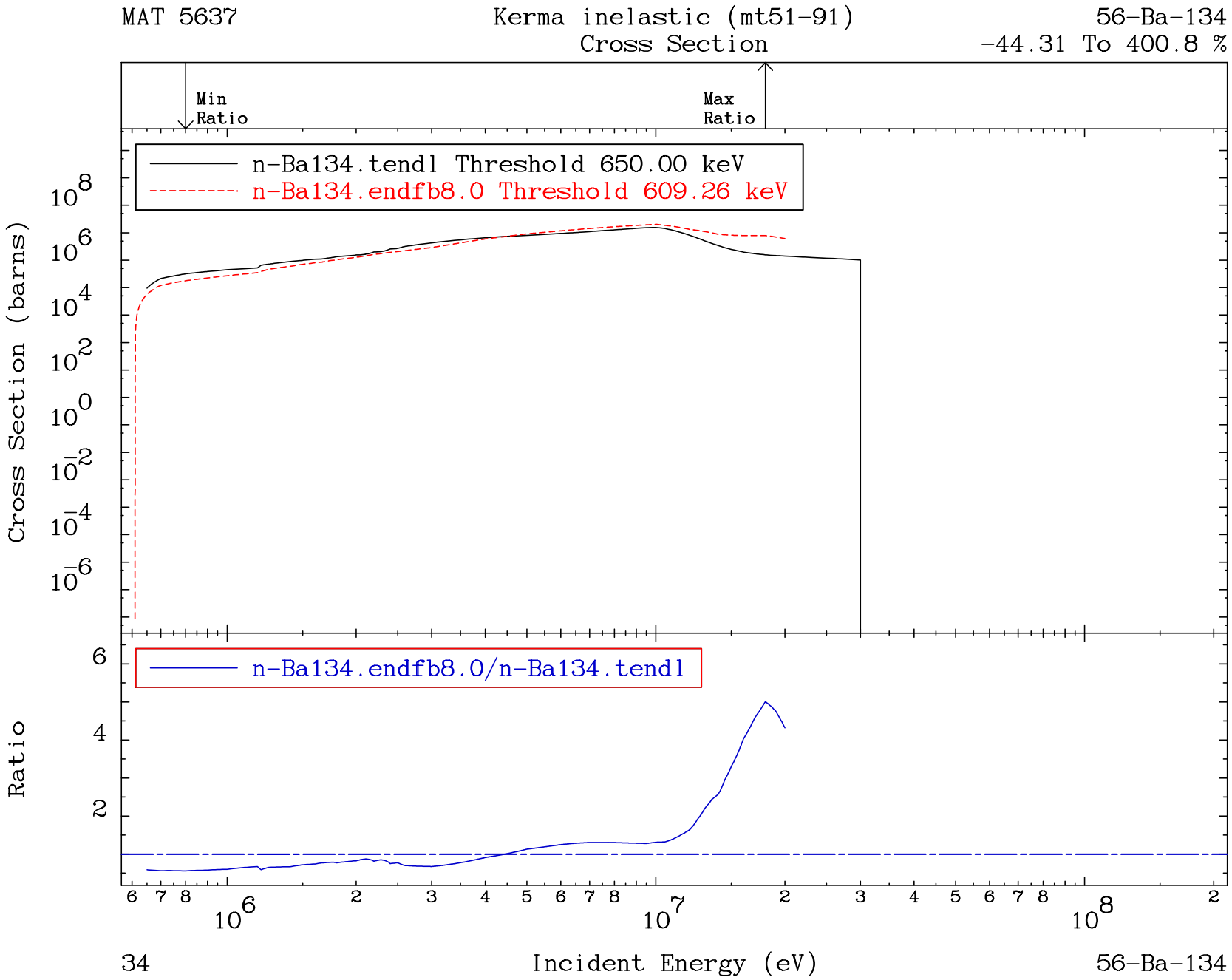

MAT 5637
Tritium Production
Cross Section
56-Ba-134
-99.97 To 1018. %
Max Ratio
Min Ratio
n-Ba134.tendl Threshold 8.7410 MeV
n-Ba134.endfb8.0 Threshold 10.000 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^2
10^0
10^-2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
56-Ba-134

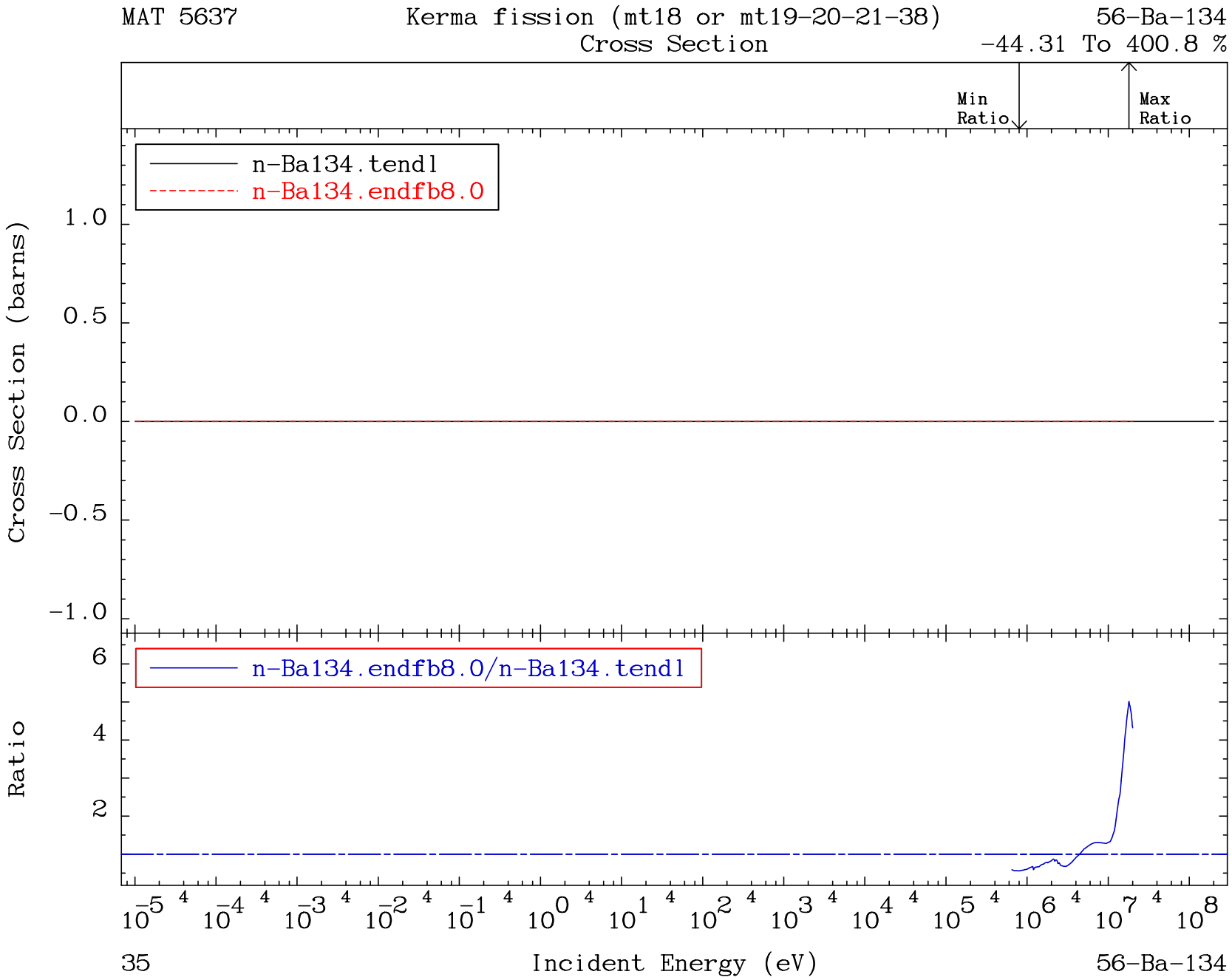

MAT 5637
He-4 Production
Cross Section
56-Ba-134
-100.0 To 4147. %
Min Ratio
Max Ratio
n-Ba134.tendl
n-Ba134.endfb8.0 Threshold 100.00 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^2
10^0
10^-2
10^-4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
30
Incident Energy (eV)
56-Ba-134

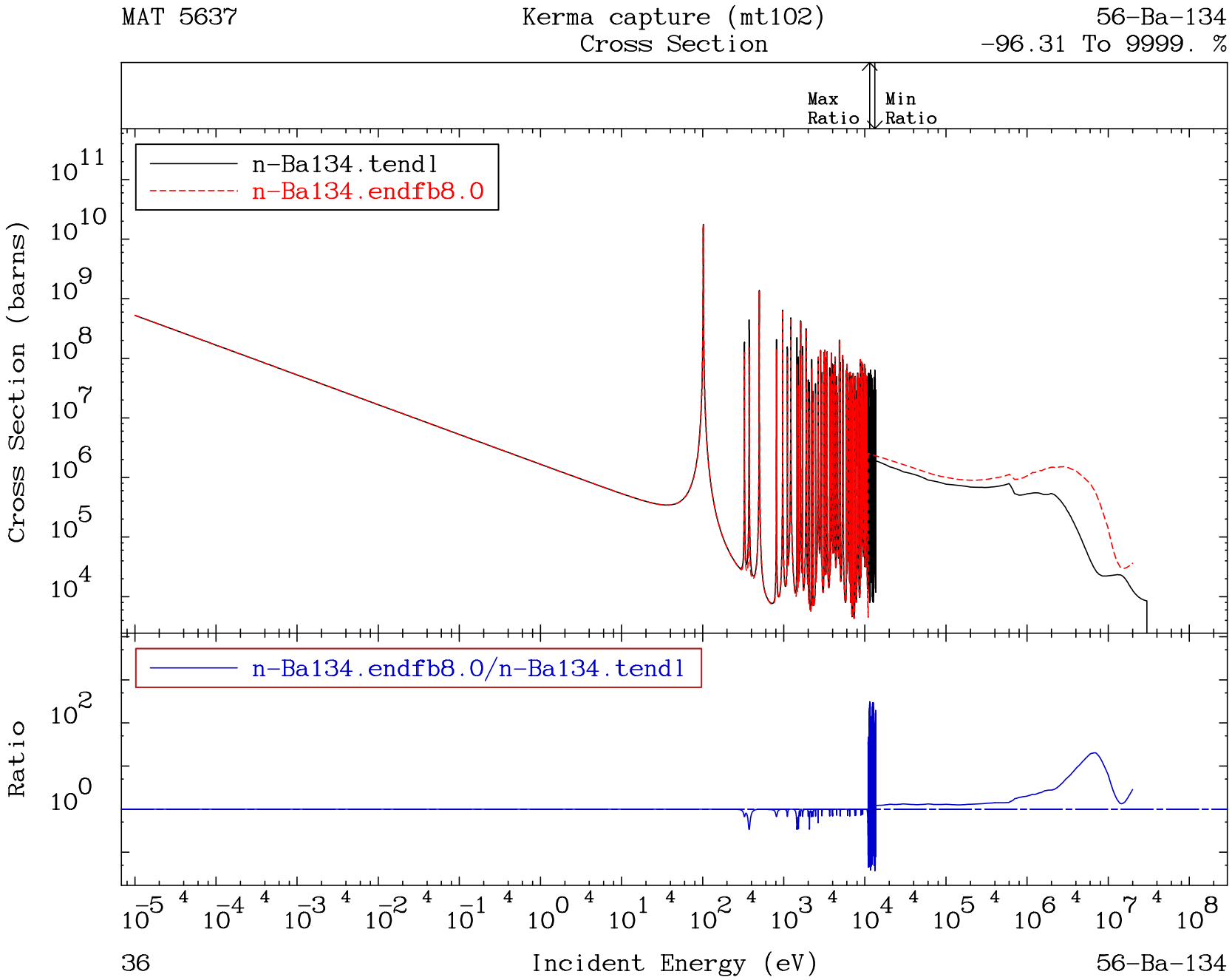

MAT 5637
Kerma total (eV-barns)
Cross Section
56-Ba-134
-96.31 To 9999. %
Max Ratio
Min Ratio
n-Ba134.tendl
n-Ba134.endfb8.0
Cross Section (barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
31
56-Ba-134

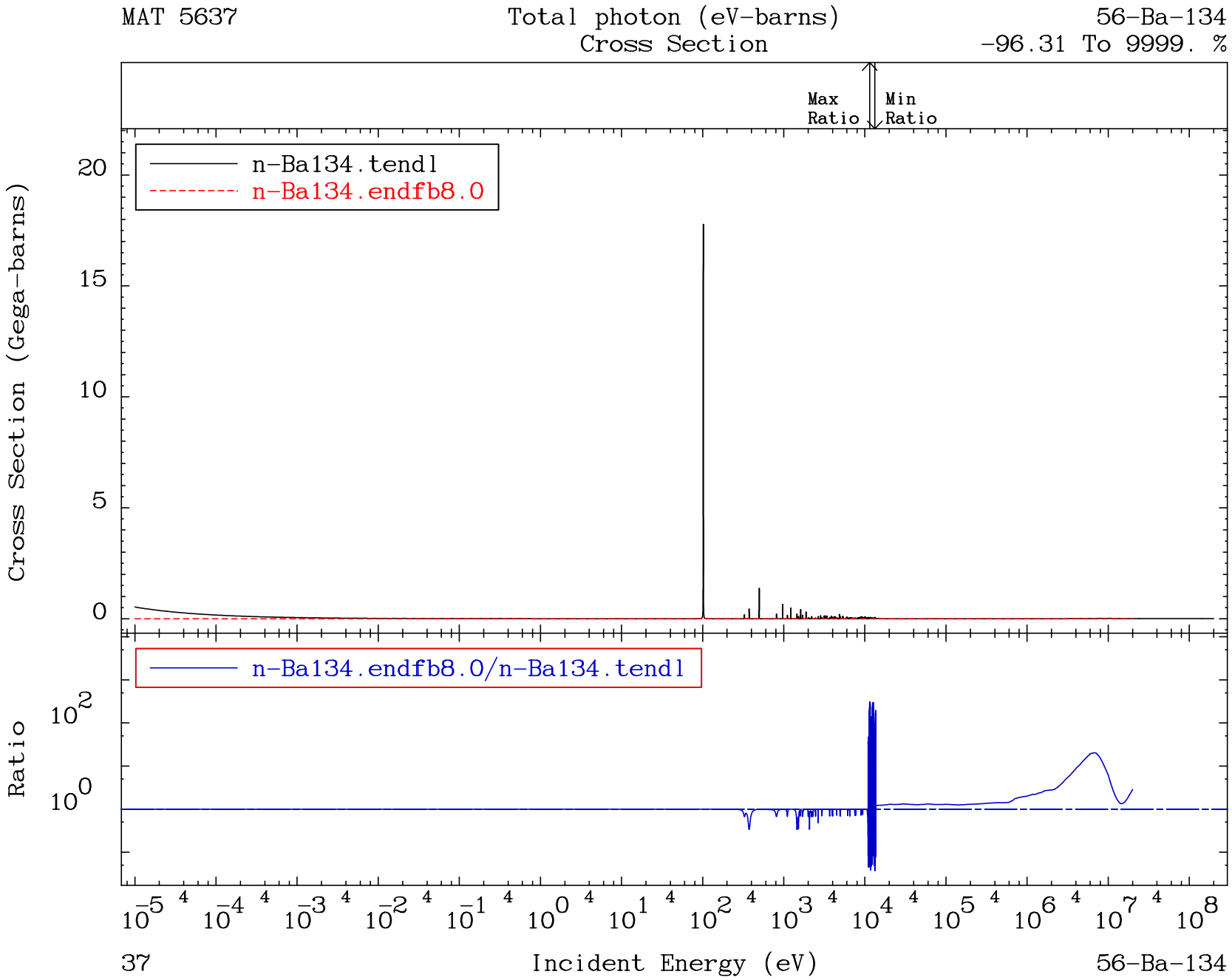

MAT 5637
Kerma elastic
Cross Section
56-Ba-134
-96.68 To 8690. %
Max Ratio
Min Ratio
n-Ba134.tendl
n-Ba134.endfb8.0
Cross Section (barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
32
56-Ba-134

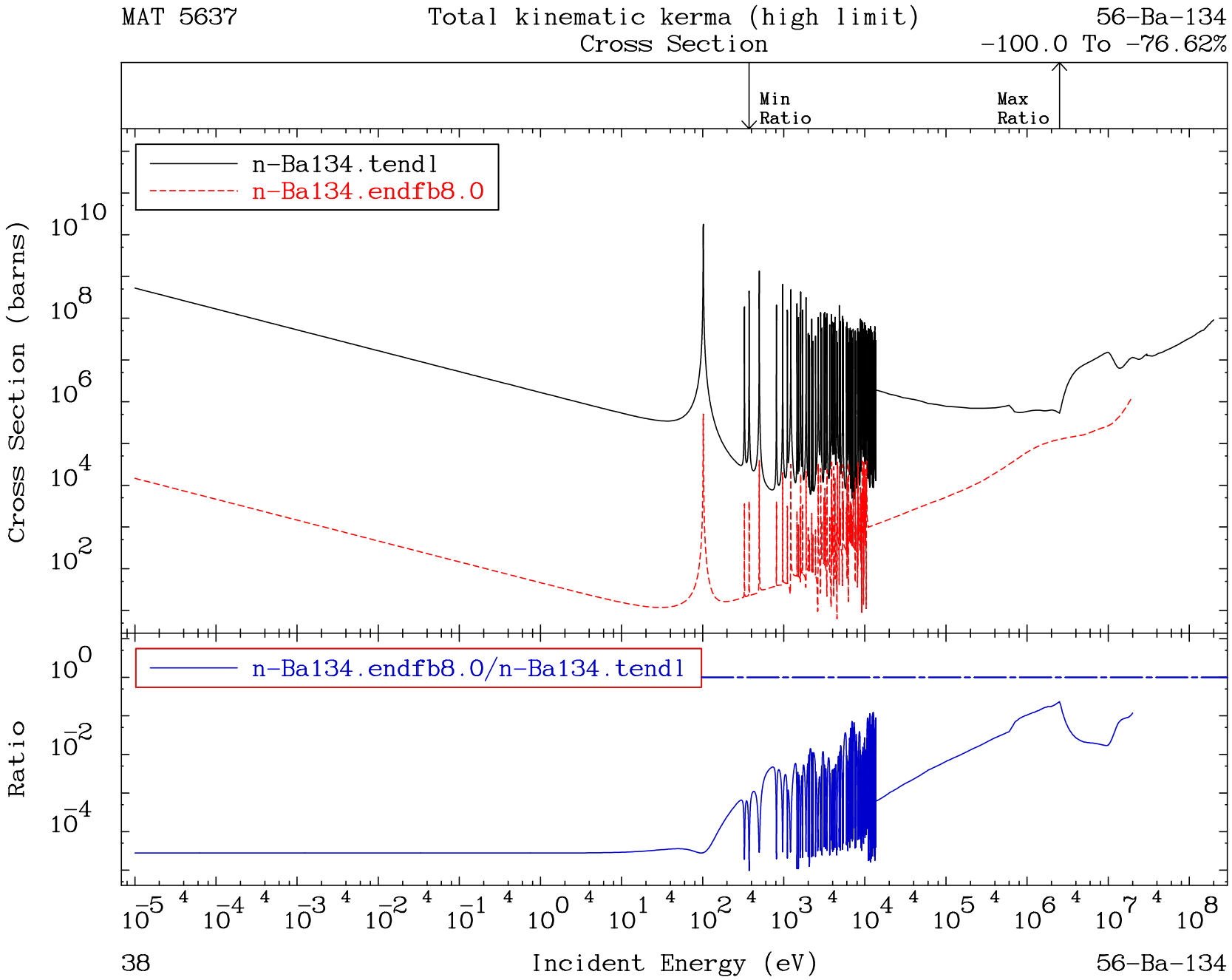

MAT 5637
Kerma non-elastic (all but mt2)
Cross Section
56-Ba-134
-96.31 To 9999. %
Max Ratio
Min Ratio
n-Ba134.tendl
n-Ba134.endfb8.0
Cross Section (barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
33
56-Ba-134

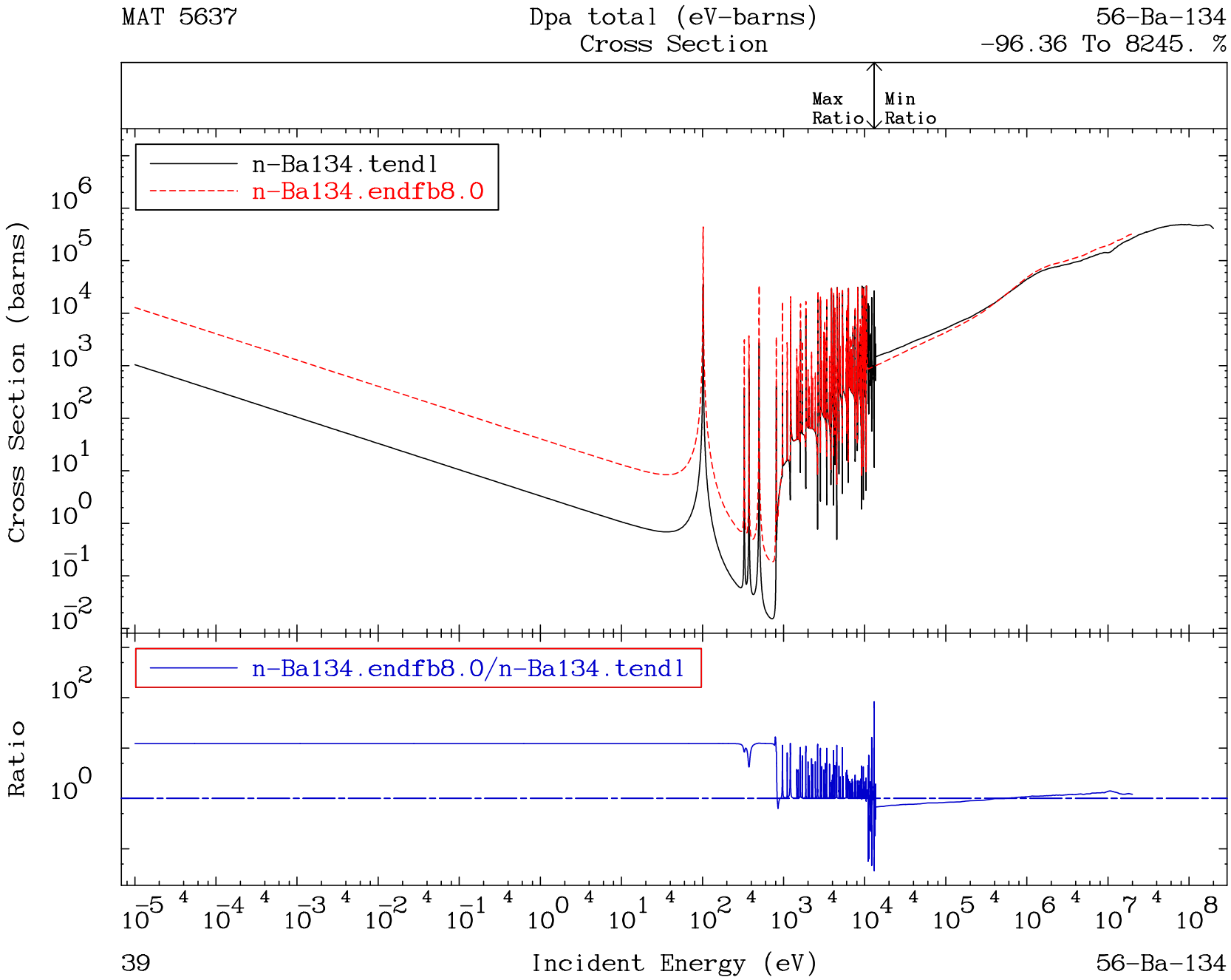

MAT 5637
Kerma inelastic (mt51-91)
Cross Section
56-Ba-134
-44.31 To 400.8 %
Min Ratio
Max Ratio
n-Ba134.tendl Threshold 650.00 keV
n-Ba134.endfb8.0 Threshold 609.26 keV
Cross Section (barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
34
56-Ba-134

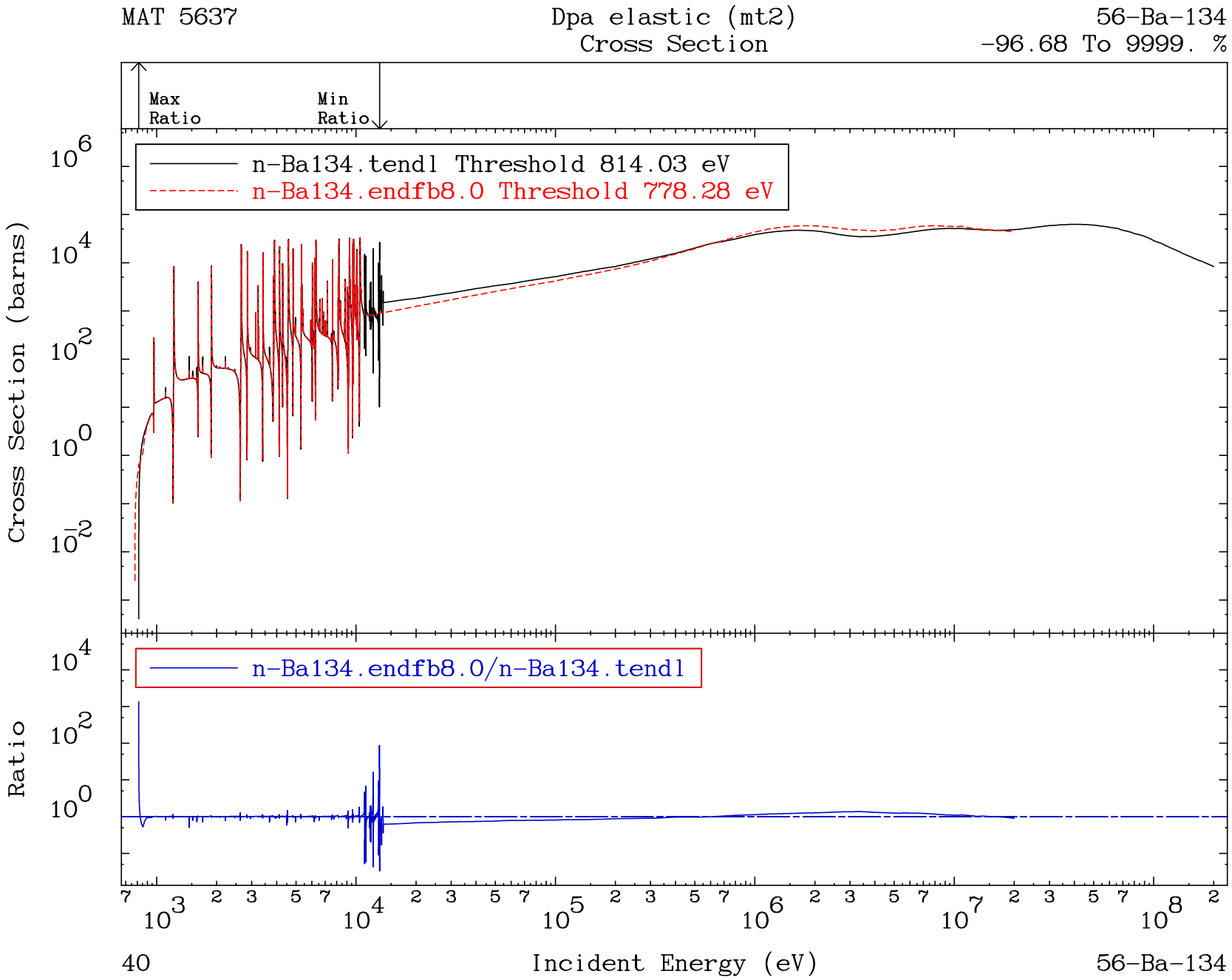

MAT 5637
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
56-Ba-134
-44.31 To 400.8 %
Min Ratio
Max Ratio
n-Ba134.tendl
n-Ba134.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
6
4
2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
35
Incident Energy (eV)
56-Ba-134

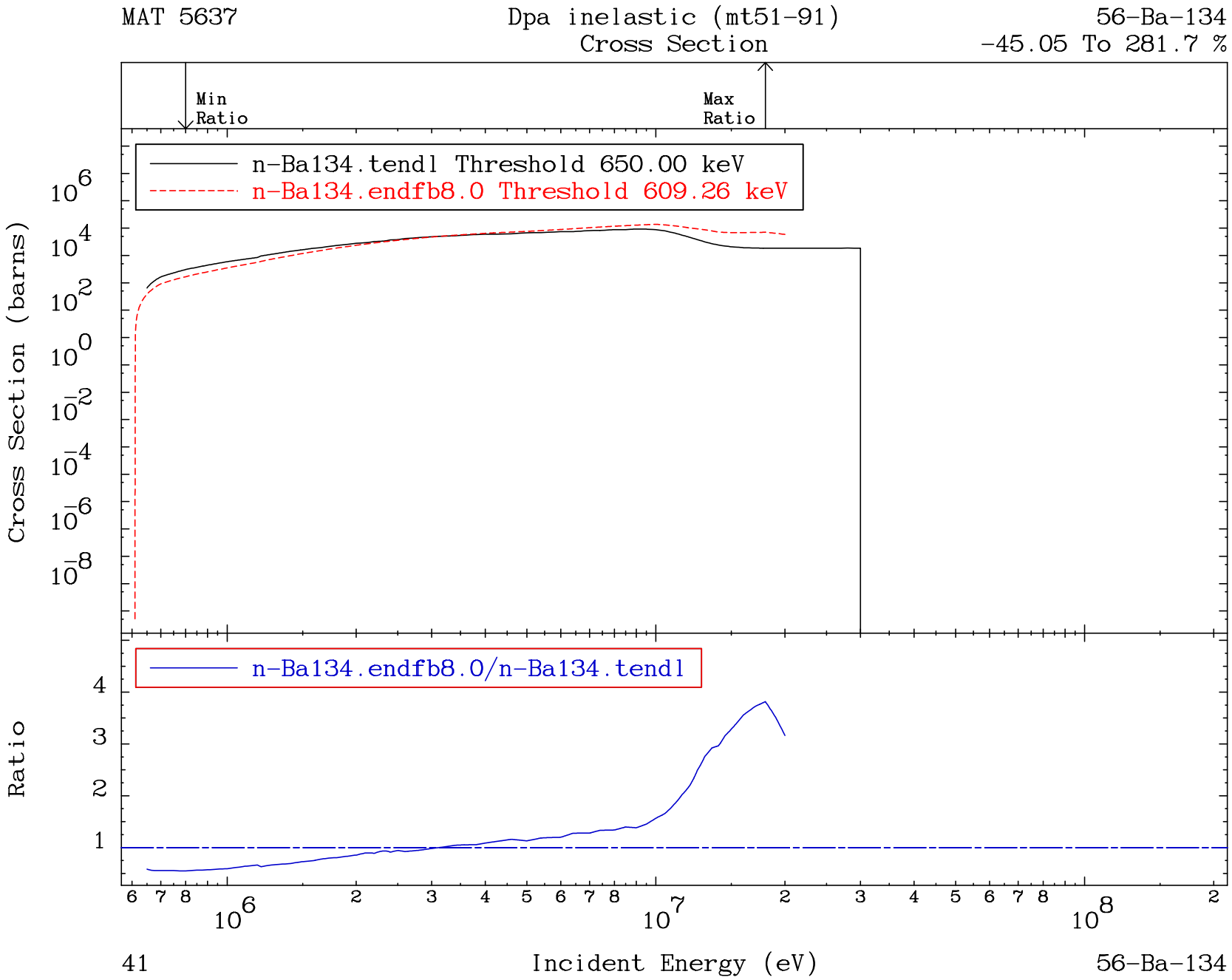

MAT 5637
Kerma capture (mt102)
Cross Section
56-Ba-134
-96.31 To 9999. %
Max Ratio
Min Ratio
n-Ba134.tendl
n-Ba134.endfb8.0
Cross Section (barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
36
56-Ba-134

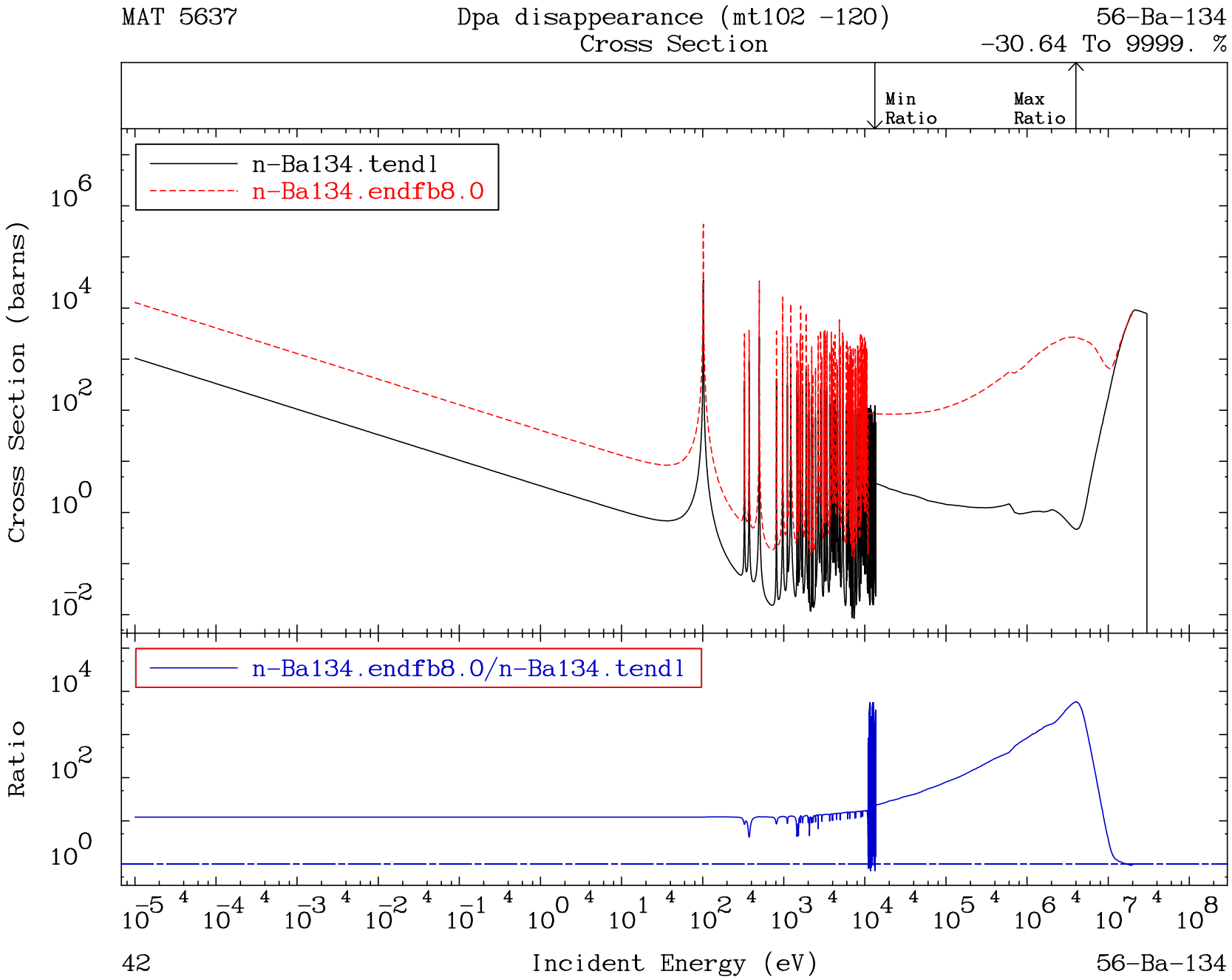

MAT 5637
Total photon (eV-barns)
Cross Section
56-Ba-134
-96.31 To 9999. %
Max Ratio
Min Ratio
n-Ba134.tendl
n-Ba134.endfb8.0
Cross Section (Gega-barns)
20
15
10
5
0
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^2
10^0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
37
Incident Energy (eV)
56-Ba-134


MAT 5637
Total kinematic kerma (high limit)
Cross Section
56-Ba-134
-100.0 To -76.62%
Min Ratio
Max Ratio
n-Ba134.tendl
n-Ba134.endfb8.0
Cross Section (barns)
10^10
10^8
10^6
10^4
10^2
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
10^0
10^-2
10^-4
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
38
Incident Energy (eV)
56-Ba-134


MAT 5637
Dpa total (eV-barns)
Cross Section
56-Ba-134
-96.36 To 8245. %
Max Ratio
Min Ratio
n-Ba134.tendl
n-Ba134.endfb8.0
Cross Section (barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
39
56-Ba-134


MAT 5637
Dpa elastic (mt2)
Cross Section
56-Ba-134
-96.68 To 9999. %
Max Ratio
Min Ratio
n-Ba134.tendl Threshold 814.03 eV
n-Ba134.endfb8.0 Threshold 778.28 eV
Cross Section (barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
40
56-Ba-134


MAT 5637
Dpa inelastic (mt51-91)
Cross Section
56-Ba-134
-45.05 To 281.7 %
Min Ratio
Max Ratio
n-Ba134.tendl Threshold 650.00 keV
n-Ba134.endfb8.0 Threshold 609.26 keV
Cross Section (barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
41
56-Ba-134


MAT 5637
Dpa disappearance (mt102 -120)
Cross Section
56-Ba-134
-30.64 To 9999. %
Min Ratio
Max Ratio
n-Ba134.tendl
n-Ba134.endfb8.0
Cross Section (barns)
n-Ba134.endfb8.0/n-Ba134.tendl
Ratio
Incident Energy (eV)
42
56-Ba-134