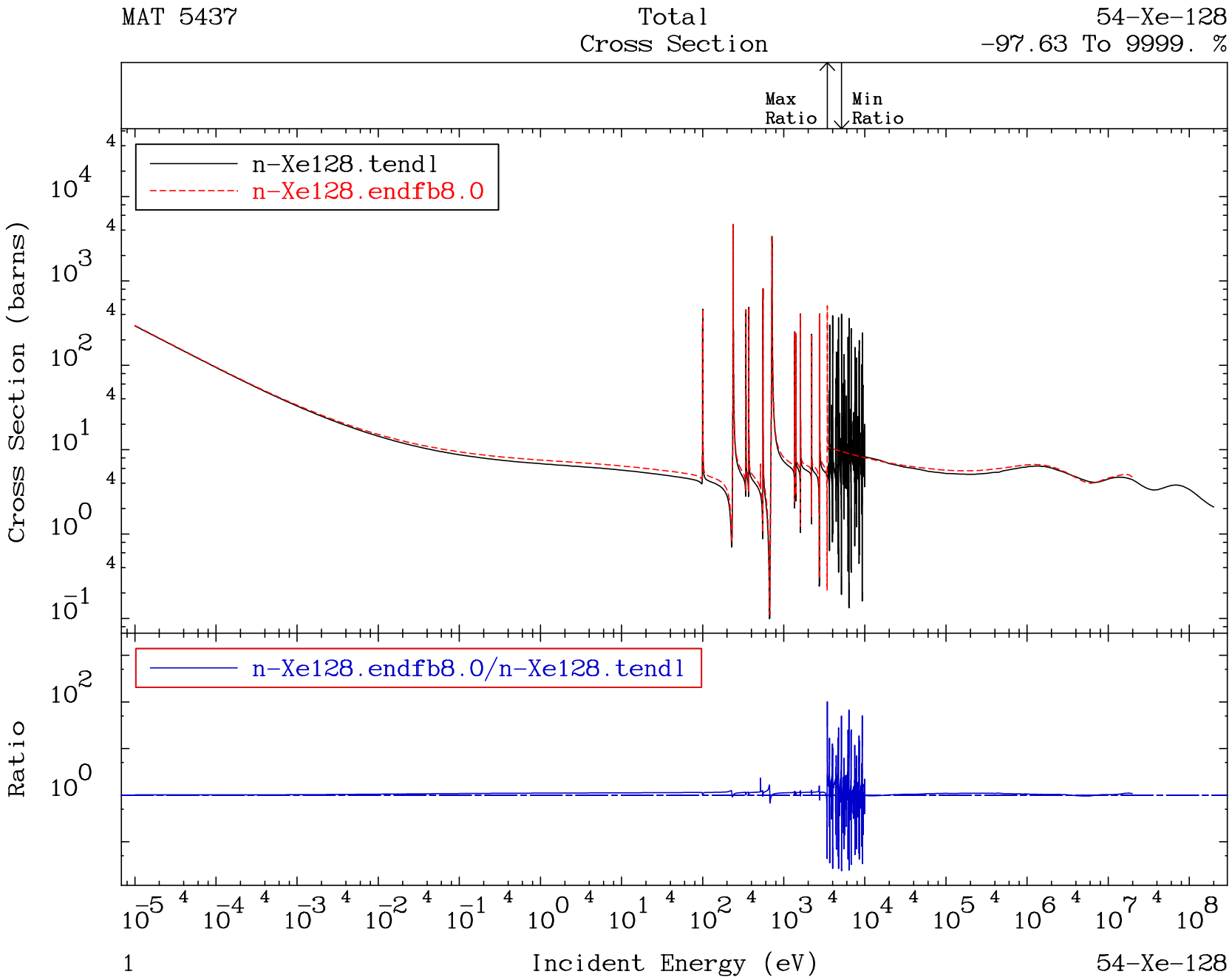
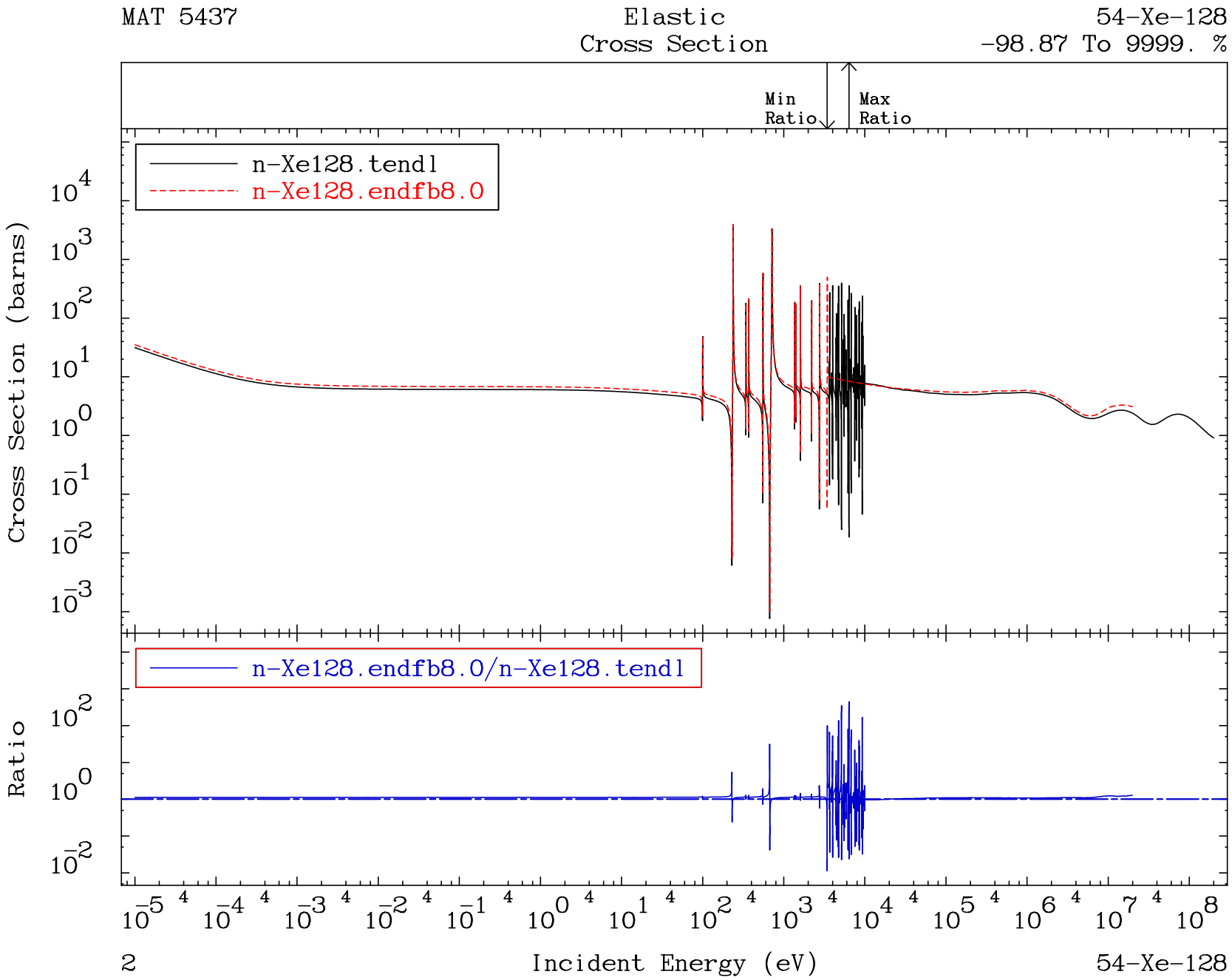
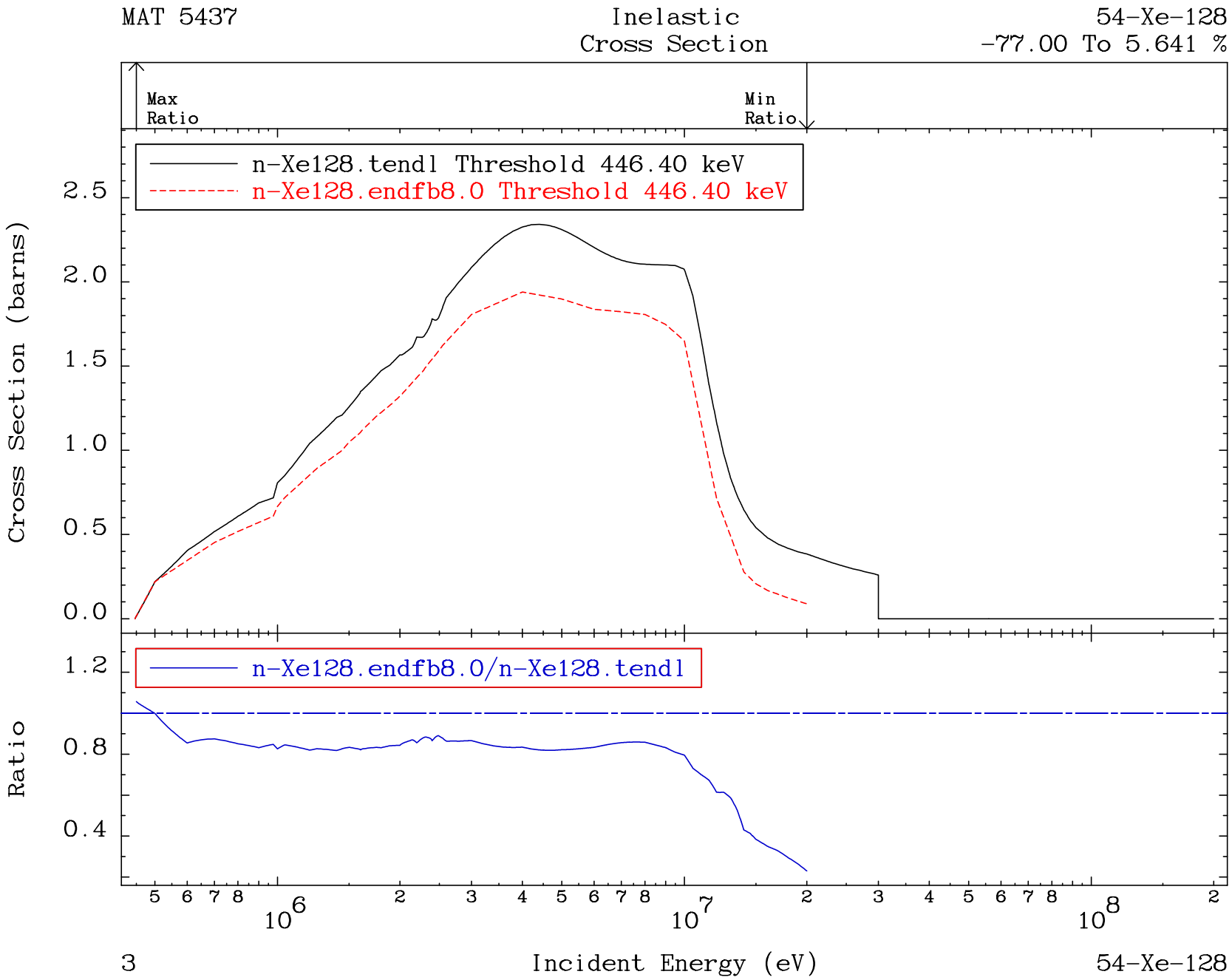
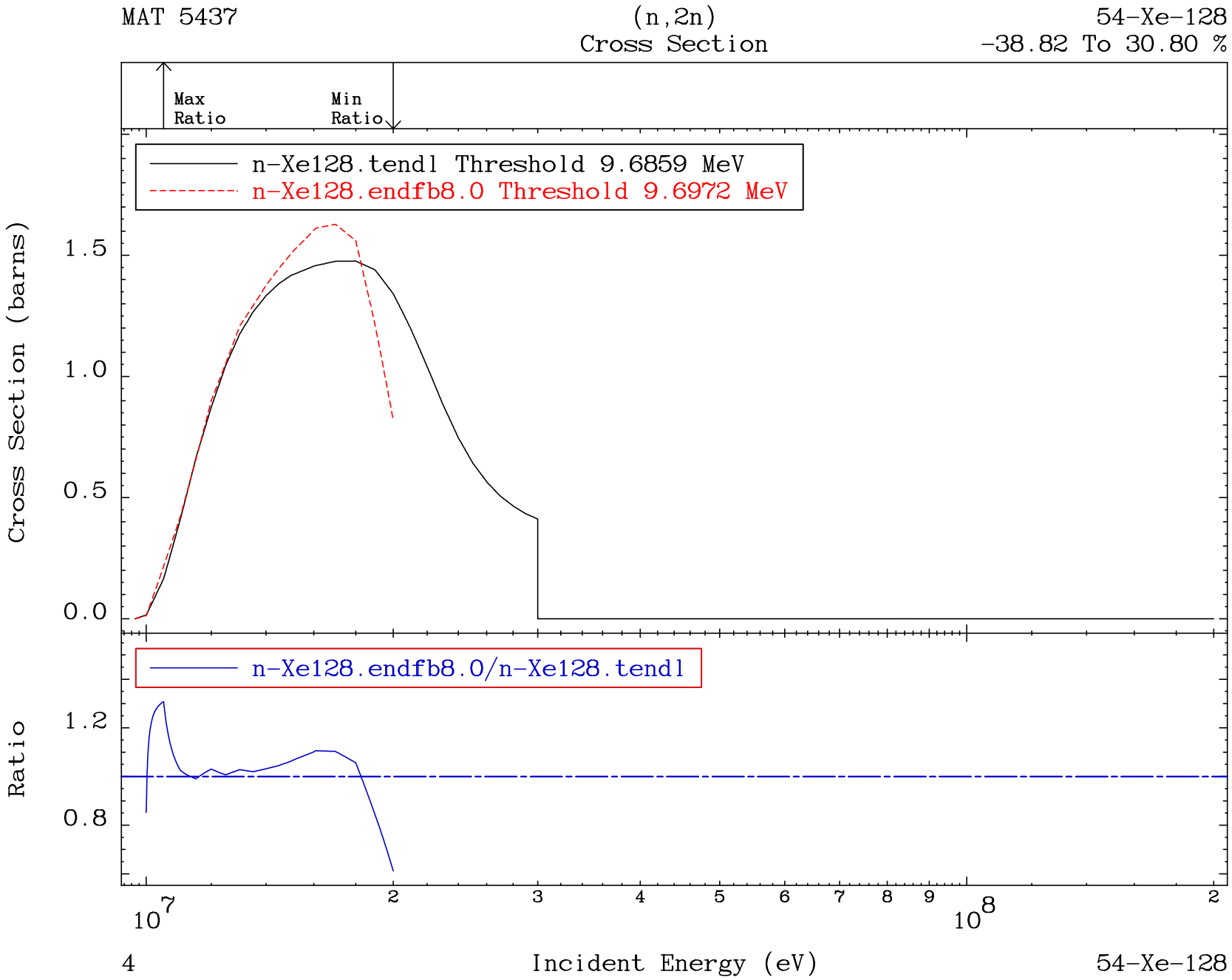
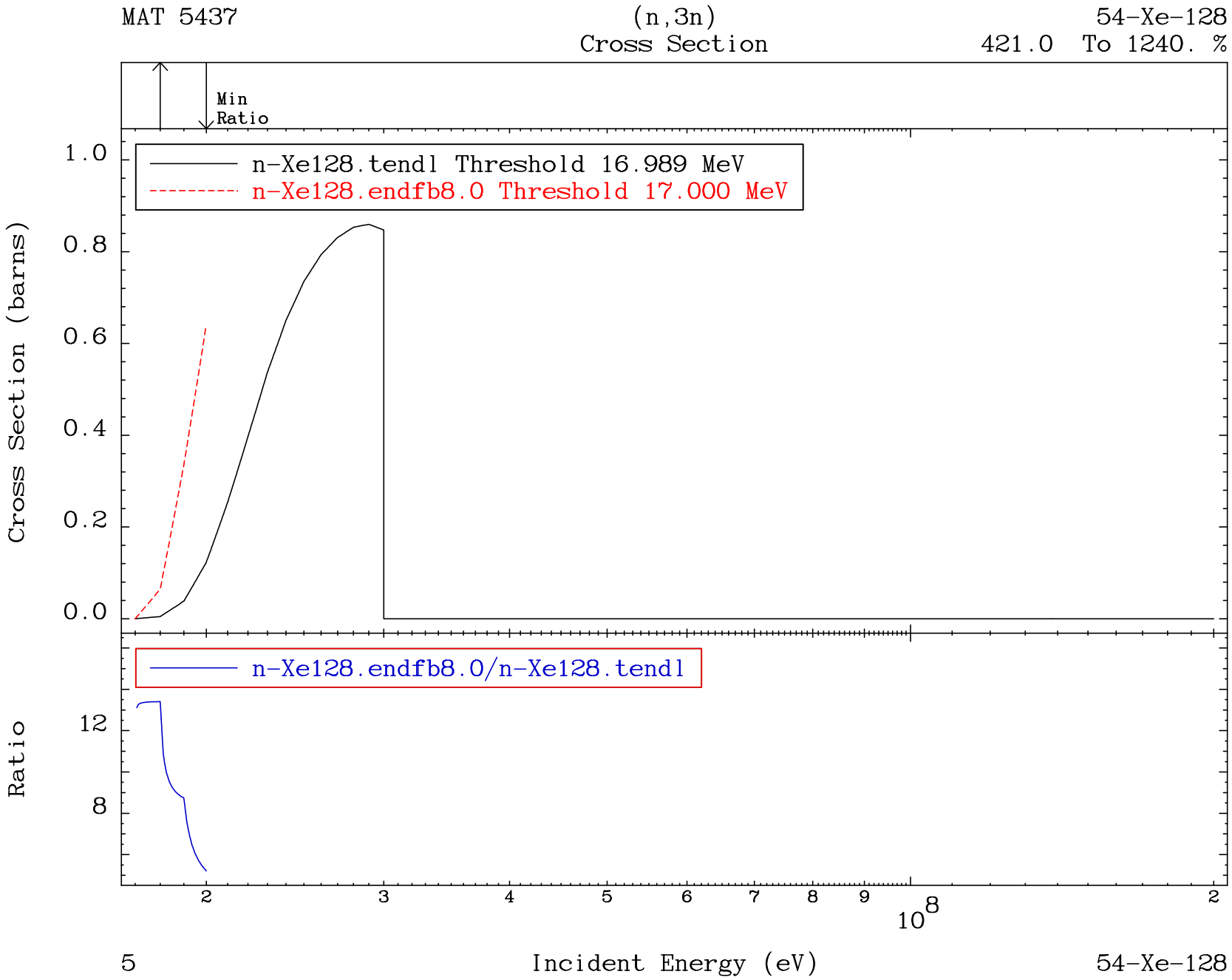
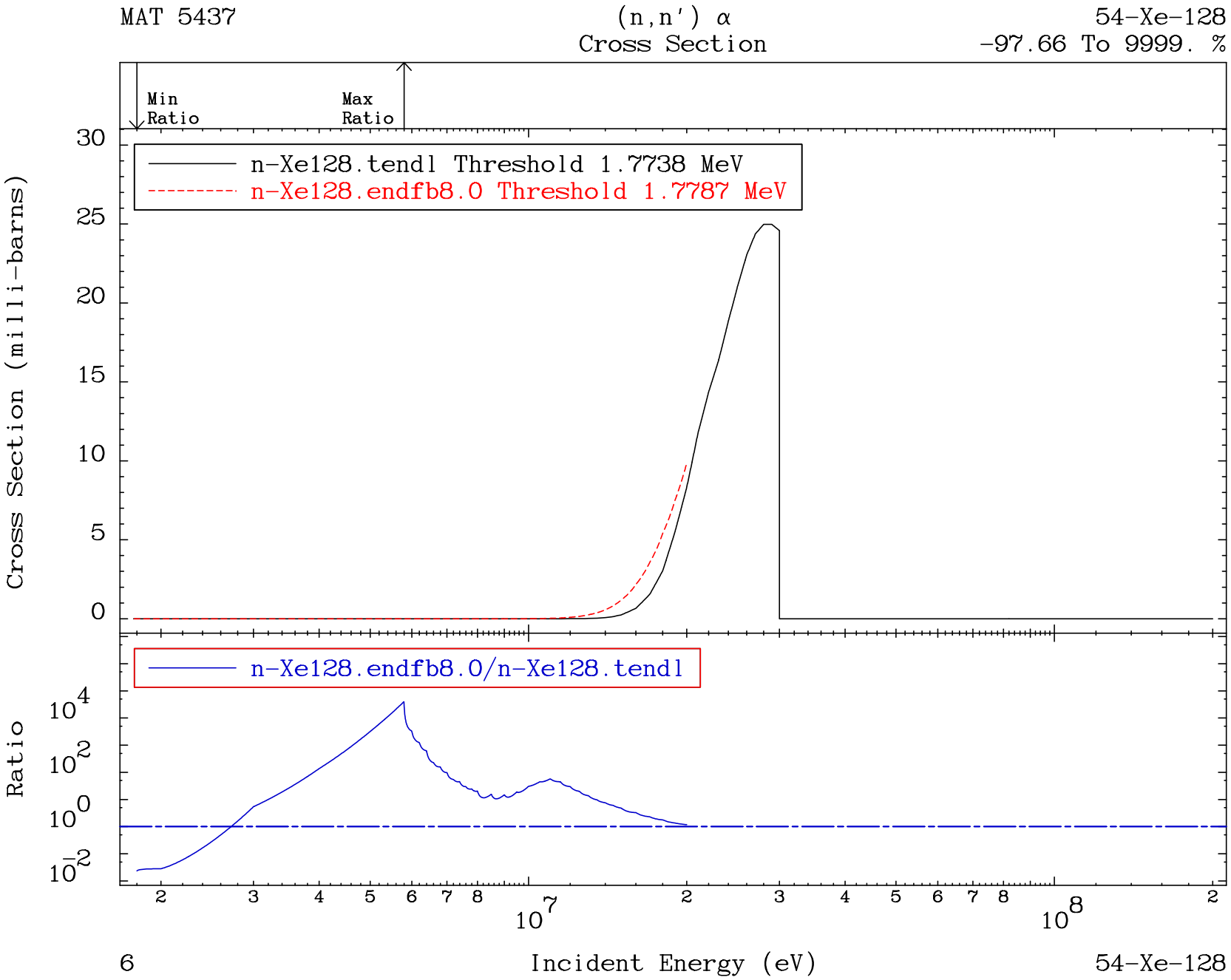

MAT 5437
Total
Cross Section
54-Xe-128
-97.63 To 9999. %
Max
Ratio
Min
Ratio
n-Xe128.tendl
n-Xe128.endfb8.0
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
Incident Energy (eV)
1
54-Xe-128

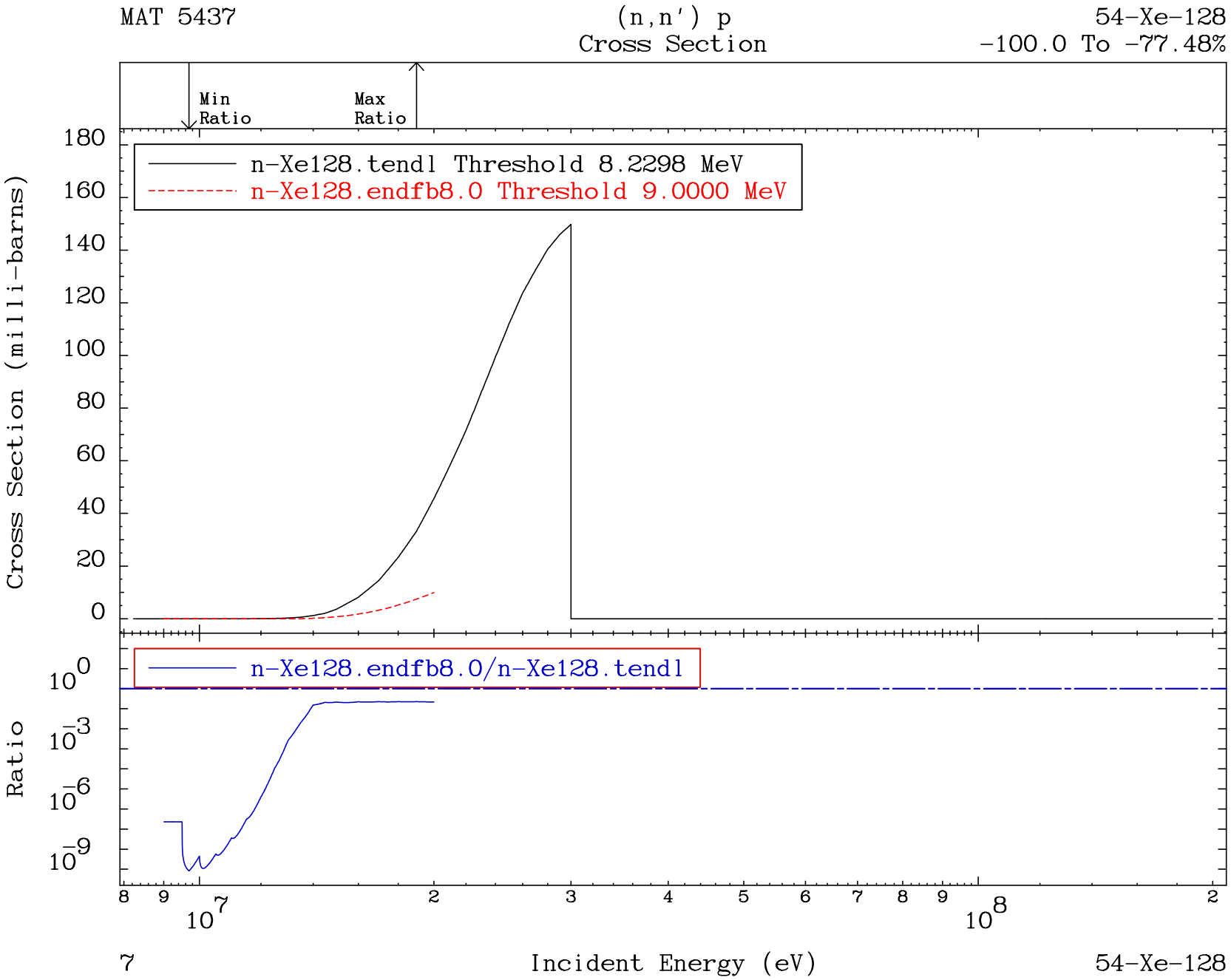

MAT 5437
Elastic
Cross Section
54-Xe-128
-98.87 To 9999. %
Min Ratio
Max Ratio
n-Xe128.tendl
n-Xe128.endfb8.0
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
Incident Energy (eV)
2
54-Xe-128

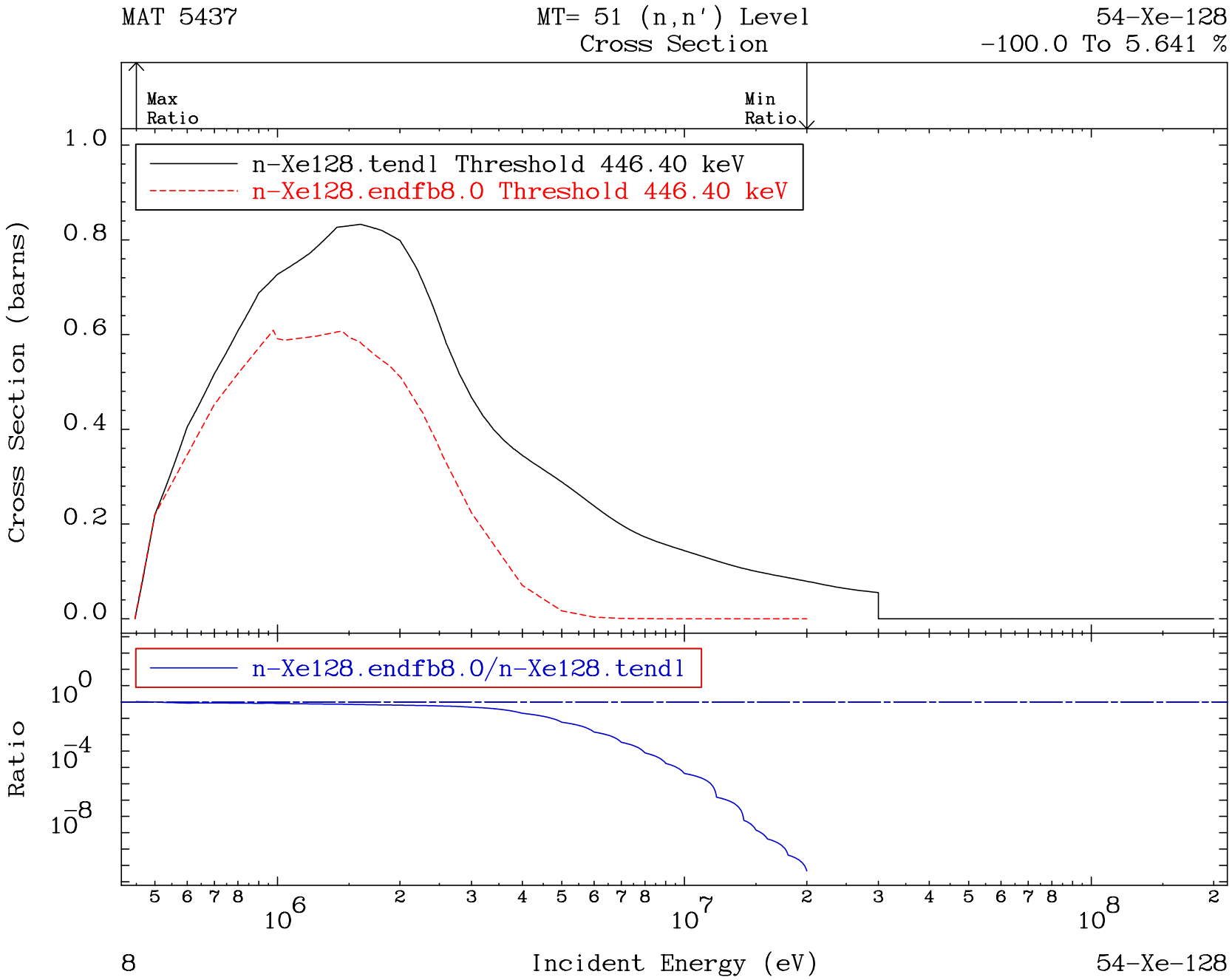

MAT 5437
Inelastic
Cross Section
54-Xe-128
-77.00 To 5.641 %
Max
Ratio
Min
Ratio
n-Xe128.tendl Threshold 446.40 keV
n-Xe128.endfb8.0 Threshold 446.40 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
1.2
0.8
0.4
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
54-Xe-128

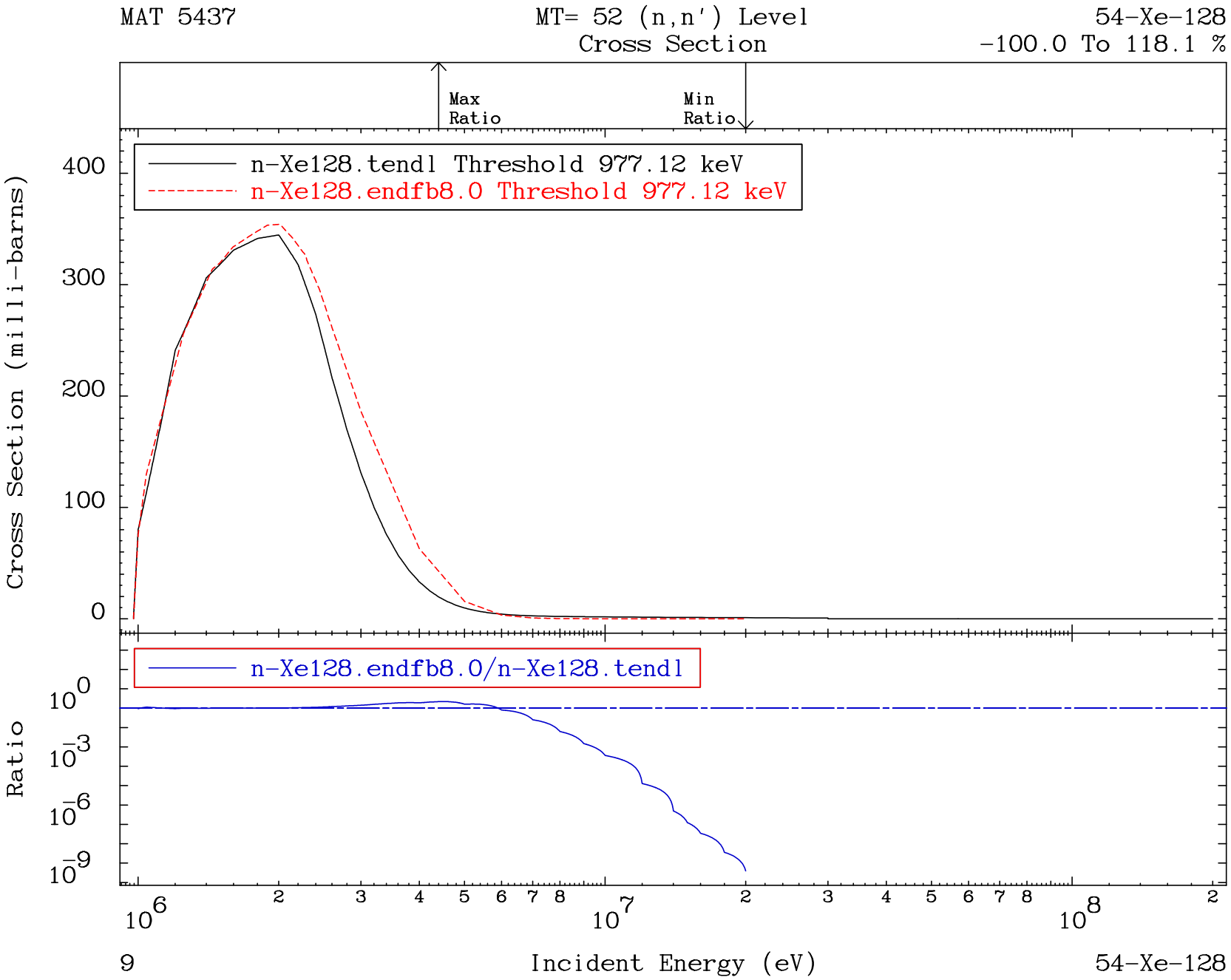

MAT 5437
(n,2n)
Cross Section
54-Xe-128
-38.82 To 30.80 %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 9.6859 MeV
n-Xe128.endfb8.0 Threshold 9.6972 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
1.2
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
54-Xe-128

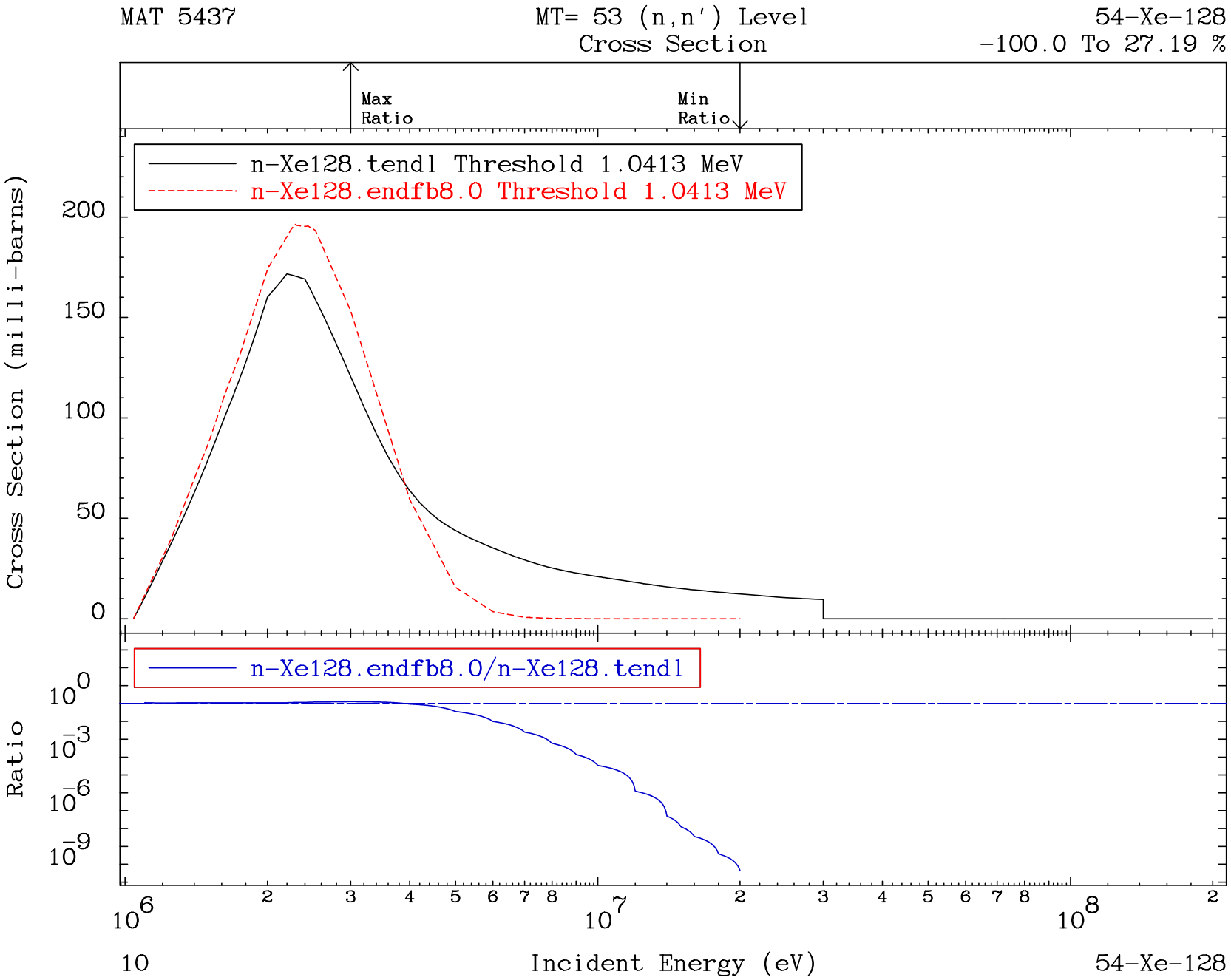

MAT 5437
(n,3n)
Cross Section
54-Xe-128
421.0 To 1240. %
Min
Ratio
n-Xe128.tendl Threshold 16.989 MeV
n-Xe128.endfb8.0 Threshold 17.000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
12
8
2
3
4
5
6
7
8
9
2
10^8
5
Incident Energy (eV)
54-Xe-128

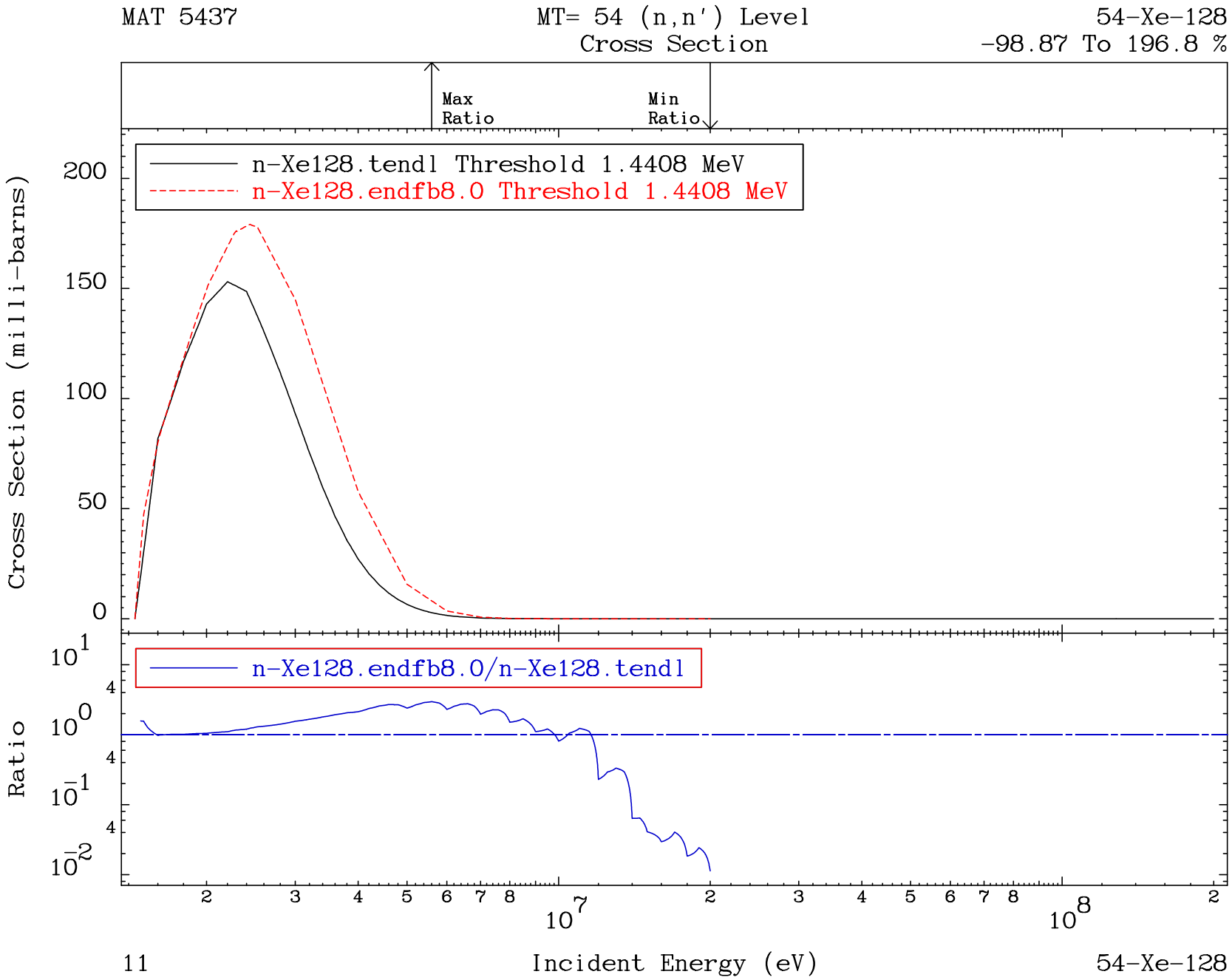

MAT 5437
(n,n') α
Cross Section
54-Xe-128
-97.66 To 9999. %
Min Ratio
Max Ratio
n-Xe128.tendl Threshold 1.7738 MeV
n-Xe128.endfb8.0 Threshold 1.7787 MeV
Cross Section (milli-barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
Incident Energy (eV)
6
54-Xe-128

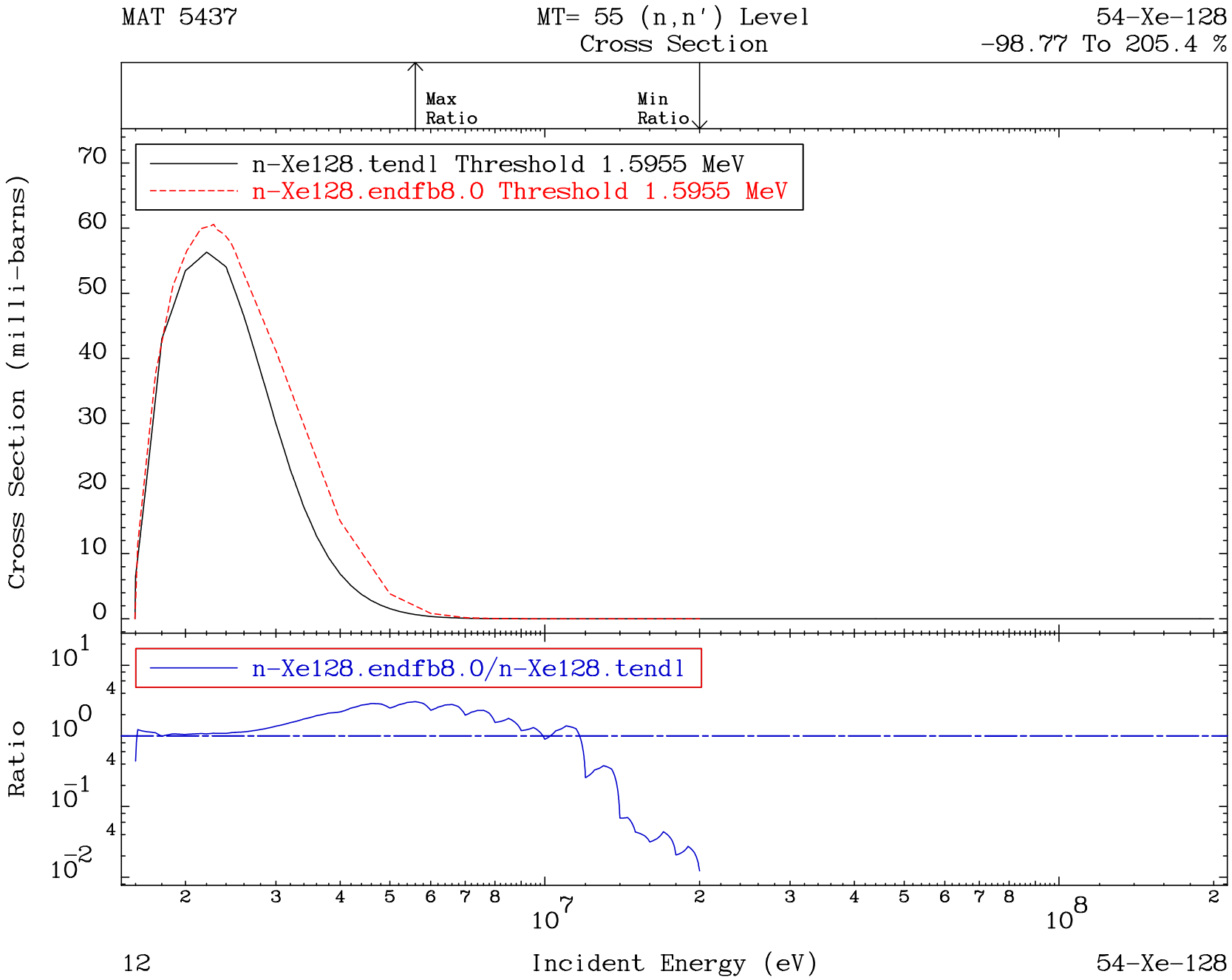

MAT 5437
(n,n') p
Cross Section
54-Xe-128
-100.0 To -77.48%
Min Ratio
Max Ratio
n-Xe128.tendl Threshold 8.2298 MeV
n-Xe128.endfb8.0 Threshold 9.0000 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
10^-9
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
54-Xe-128

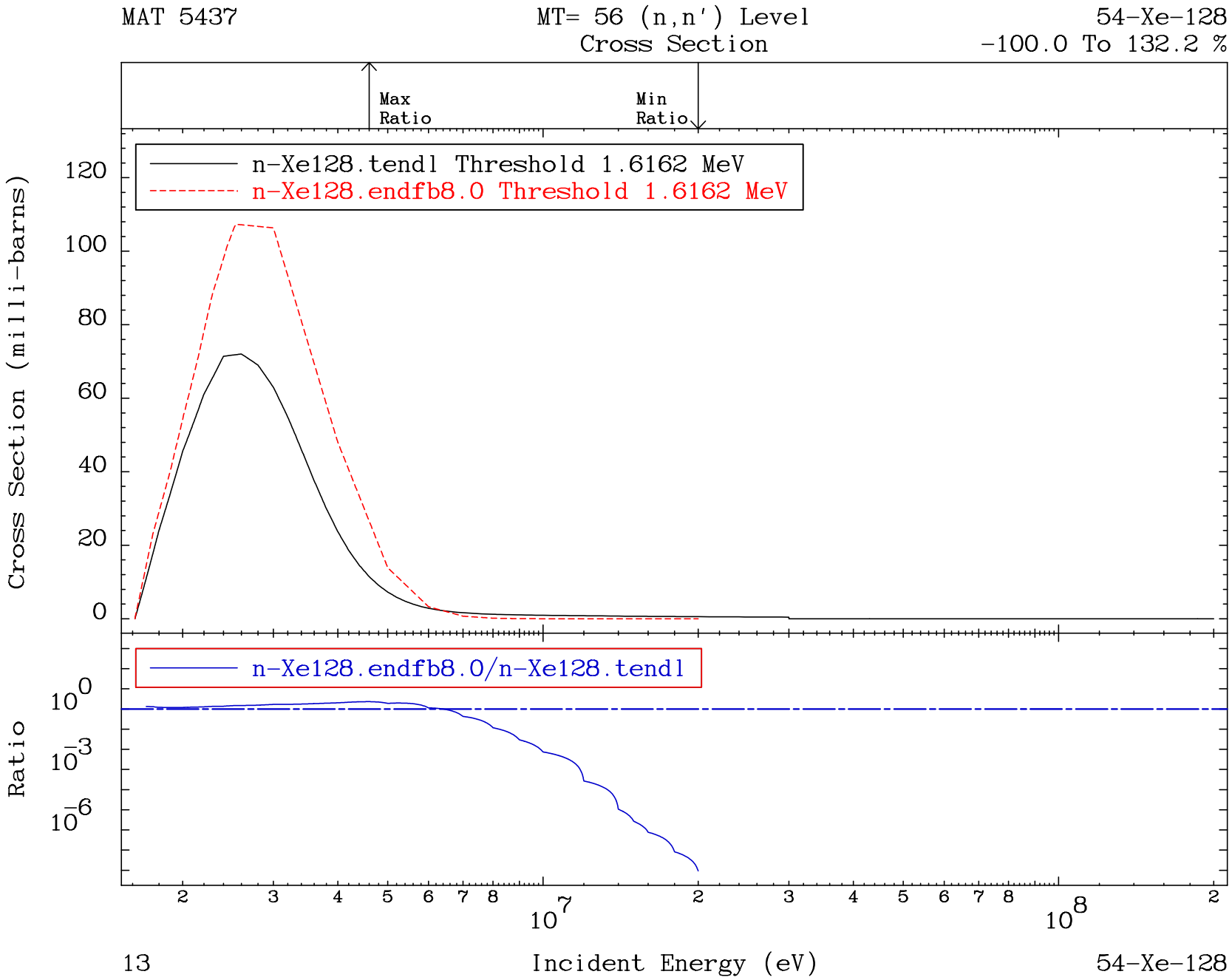

MAT 5437
MT= 51 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 5.641 %
Max
Ratio
Min
Ratio
n-Xe128.tendl Threshold 446.40 keV
n-Xe128.endfb8.0 Threshold 446.40 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-4
10^-8
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
54-Xe-128

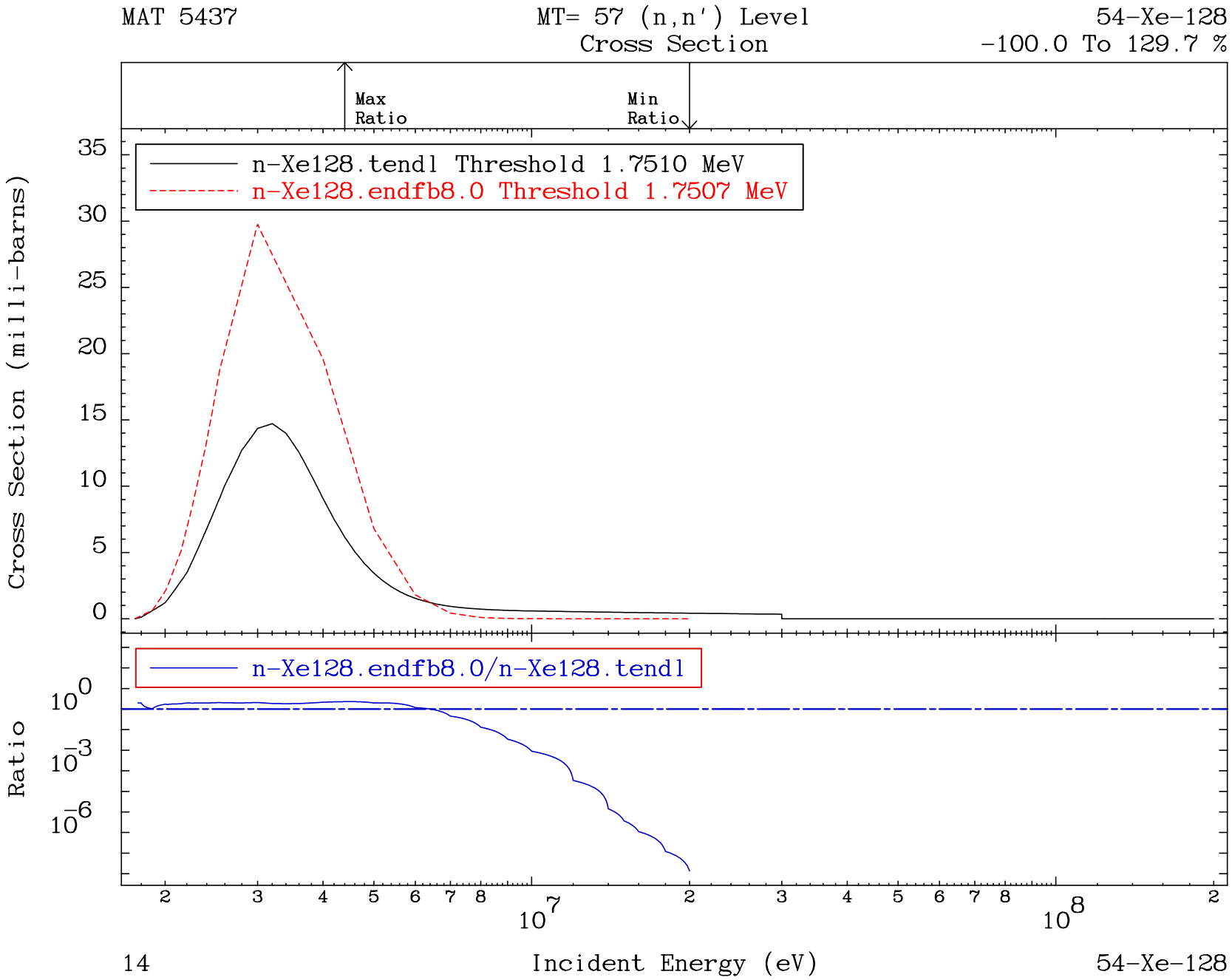

MAT 5437
MT= 52 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 118.1 %
Max
Ratio
Min
Ratio
n-Xe128.tendl Threshold 977.12 keV
n-Xe128.endfb8.0 Threshold 977.12 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
10^-9
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
9
Incident Energy (eV)
54-Xe-128

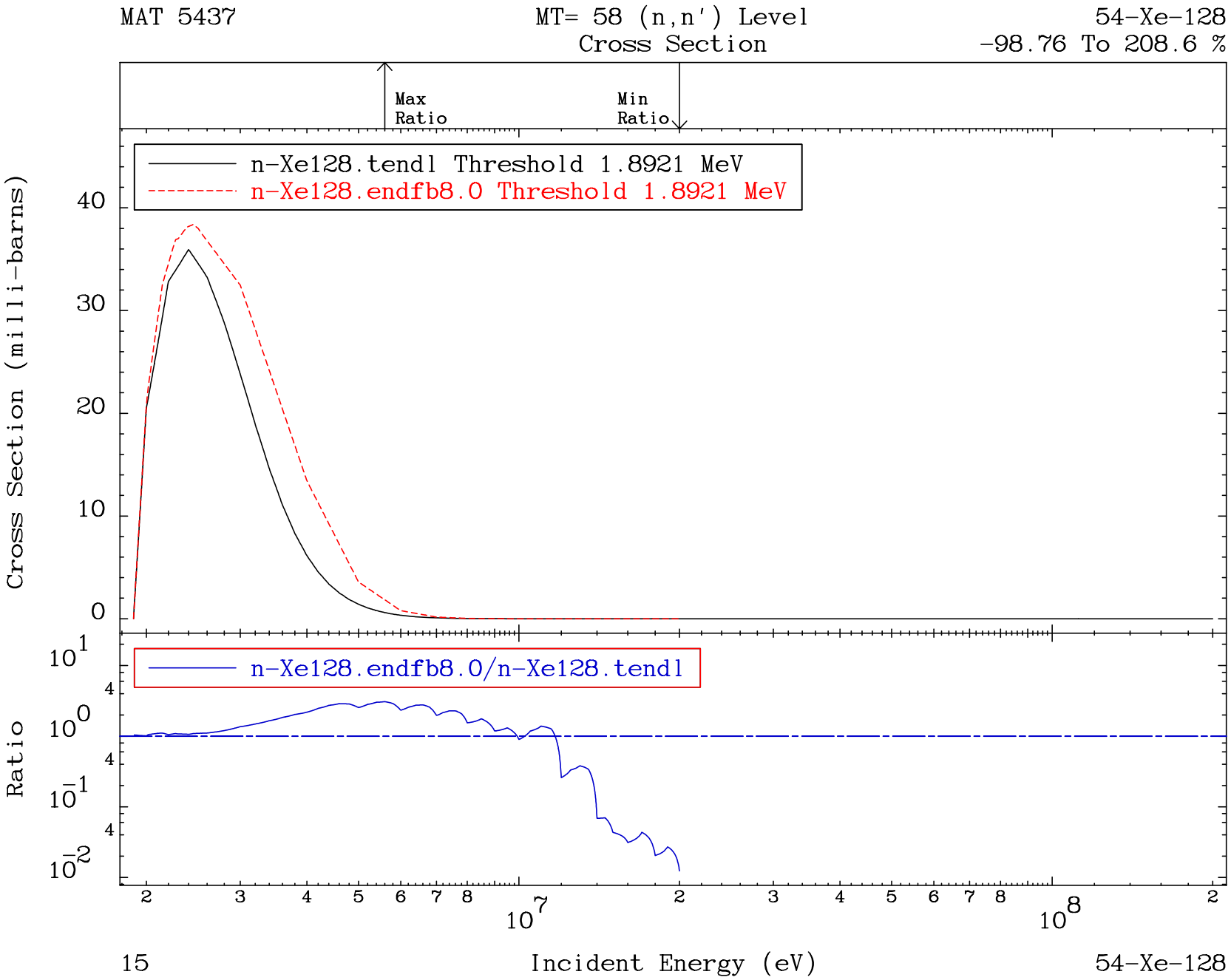

MAT 5437
MT= 53 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 27.19 %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 1.0413 MeV
n-Xe128.endfb8.0 Threshold 1.0413 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
10^-9
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
54-Xe-128

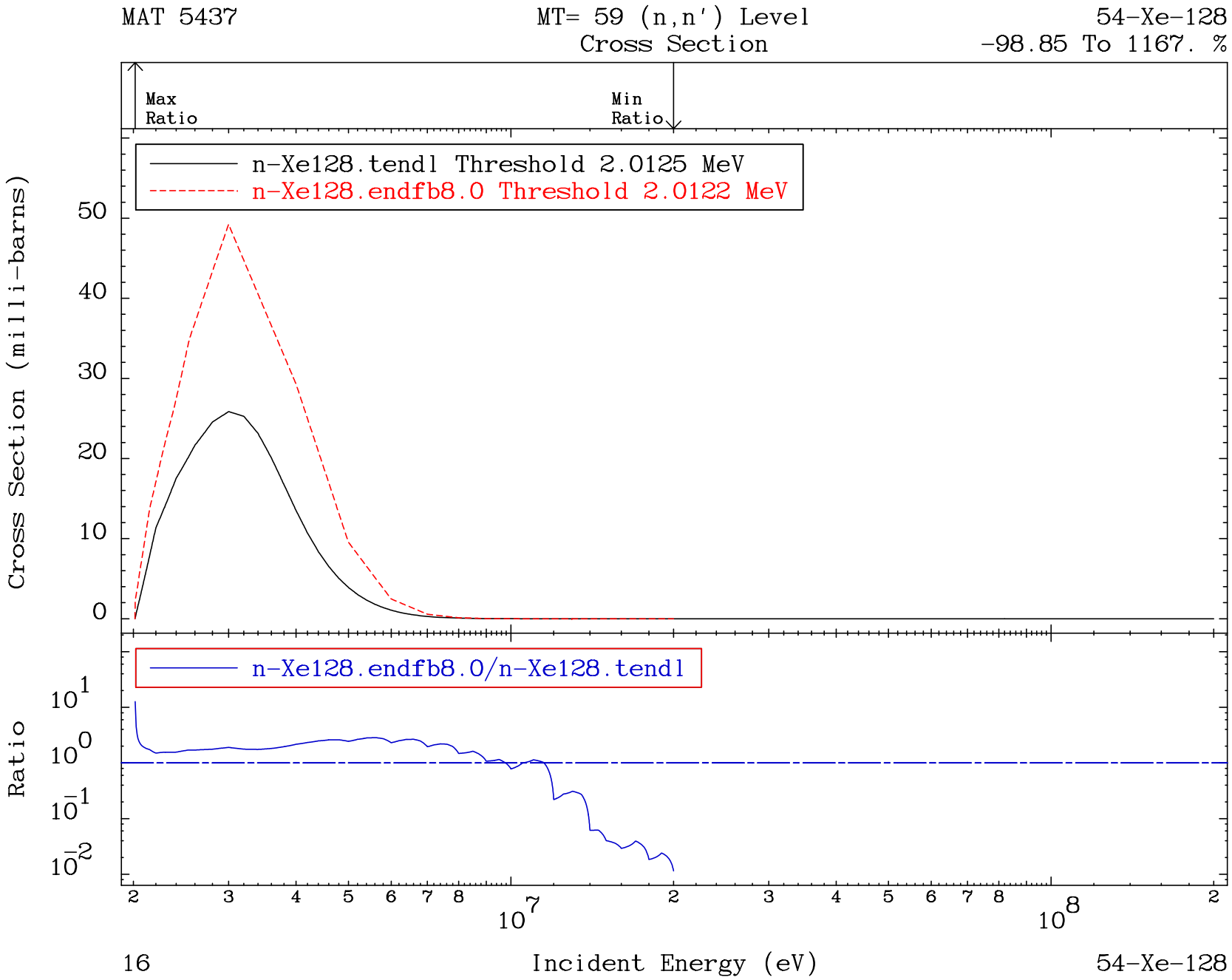

MAT 5437
MT= 54 (n,n') Level
Cross Section
54-Xe-128
-98.87 To 196.8 %
Max
Ratio
Min
Ratio
n-Xe128.tendl Threshold 1.4408 MeV
n-Xe128.endfb8.0 Threshold 1.4408 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^1
10^0
10^-1
10^-2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
54-Xe-128

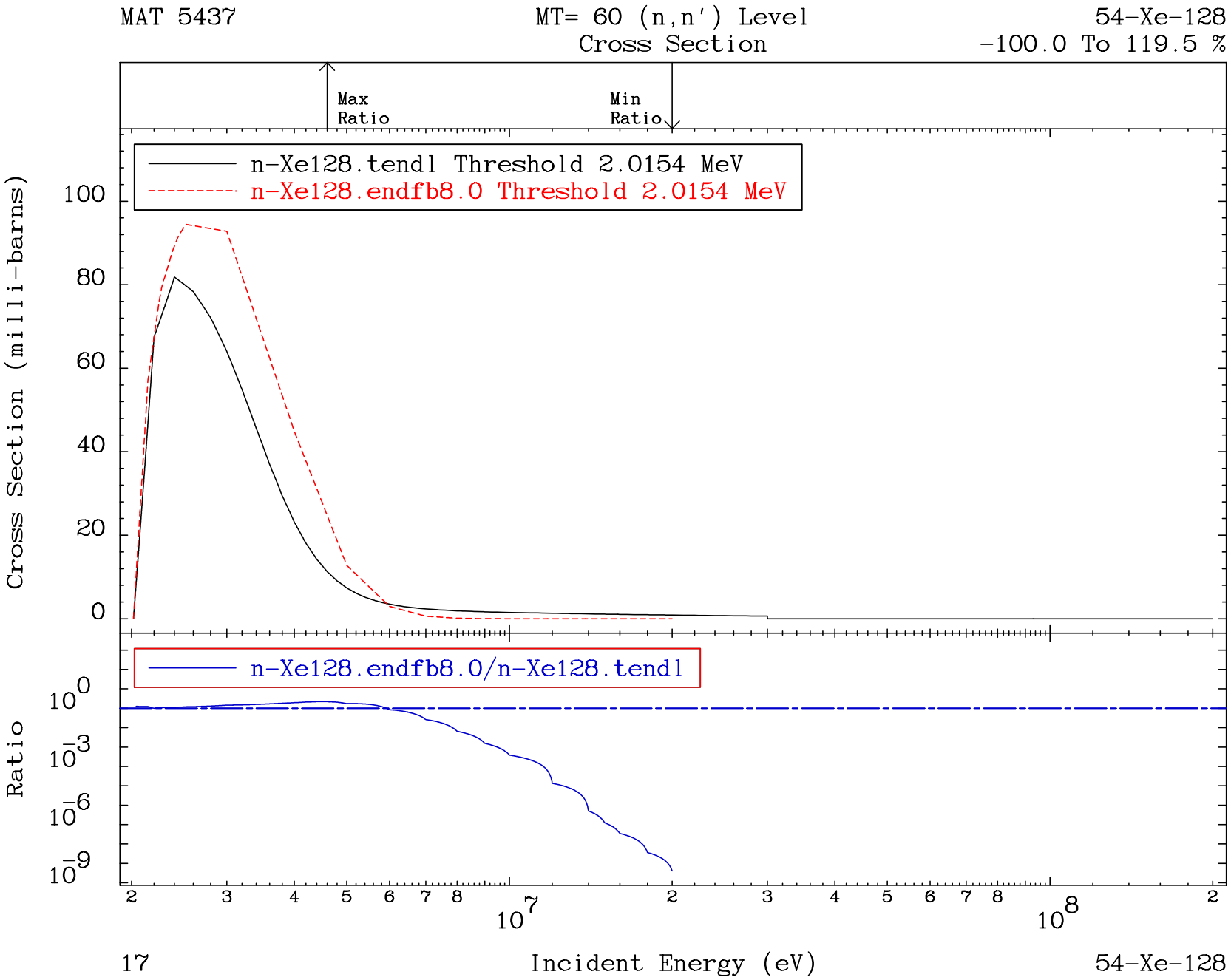

MAT 5437
MT= 55 (n,n') Level
Cross Section
54-Xe-128
-98.77 To 205.4 %
Max
Ratio
Min
Ratio
n-Xe128.tendl Threshold 1.5955 MeV
n-Xe128.endfb8.0 Threshold 1.5955 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^1
10^0
10^-1
10^-2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
54-Xe-128

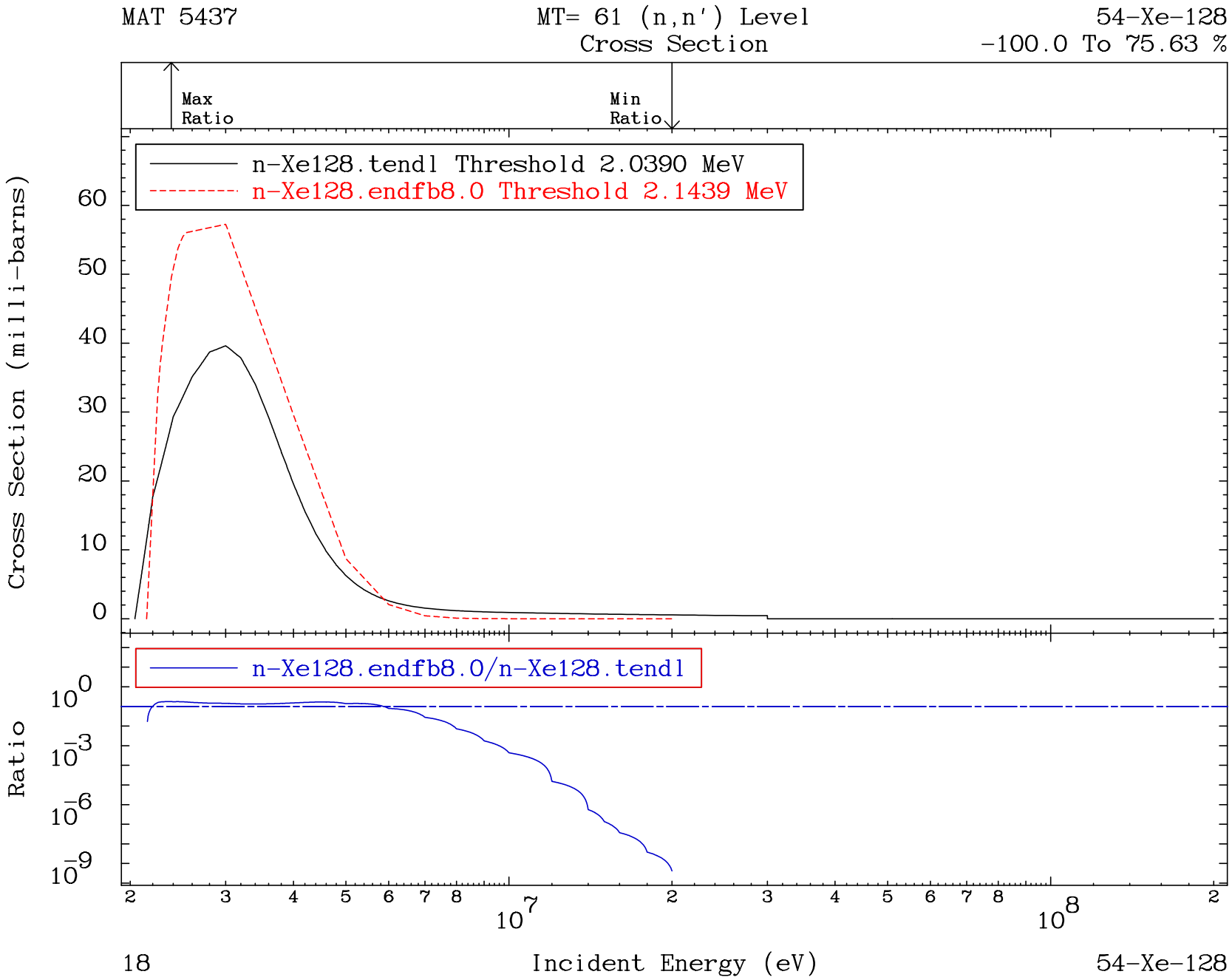

MAT 5437
MT= 56 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 132.2 %
Max
Ratio
Min
Ratio
n-Xe128.tendl Threshold 1.6162 MeV
n-Xe128.endfb8.0 Threshold 1.6162 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
54-Xe-128

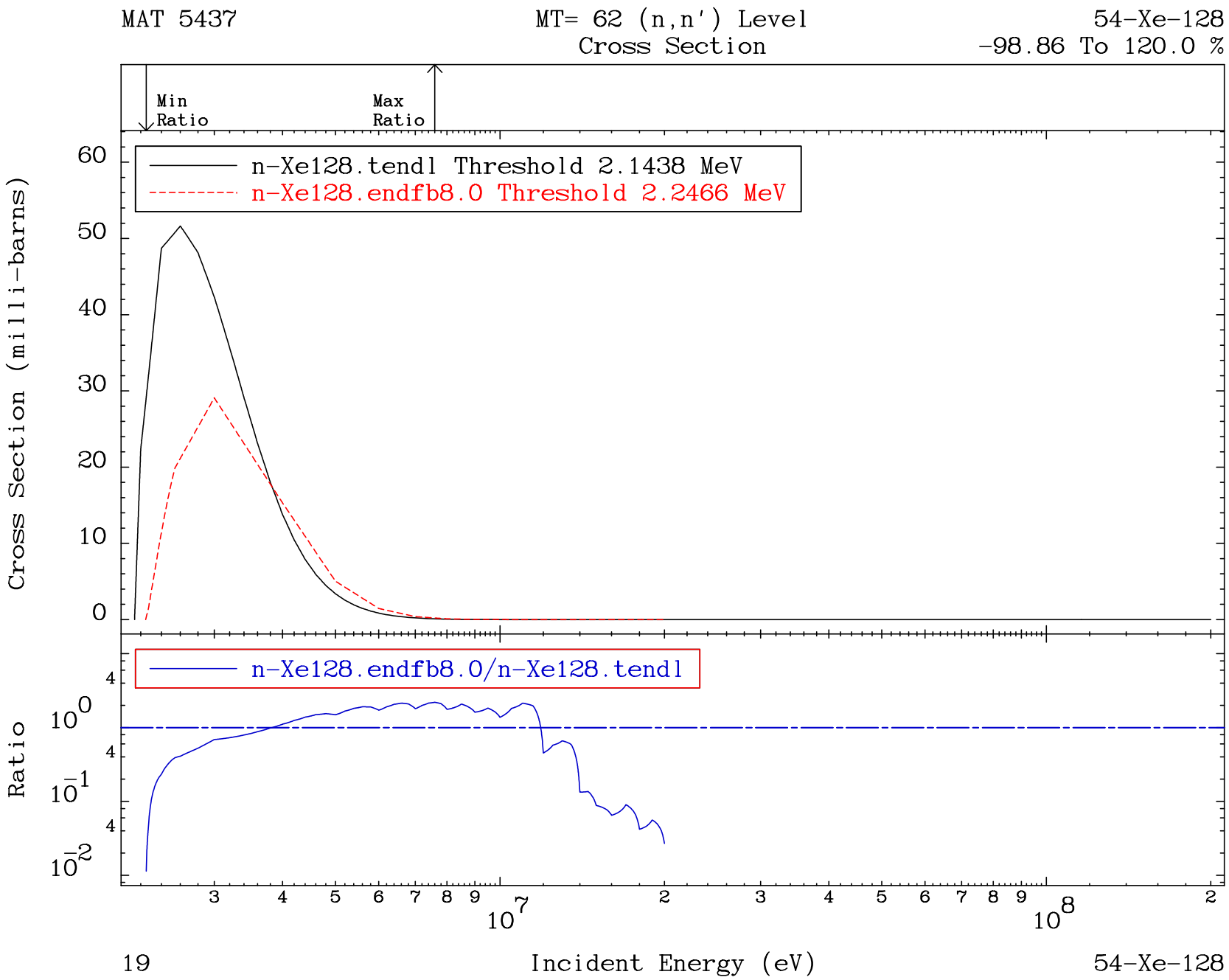

MAT 5437
MT= 57 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 129.7 %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 1.7510 MeV
n-Xe128.endfb8.0 Threshold 1.7507 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
54-Xe-128

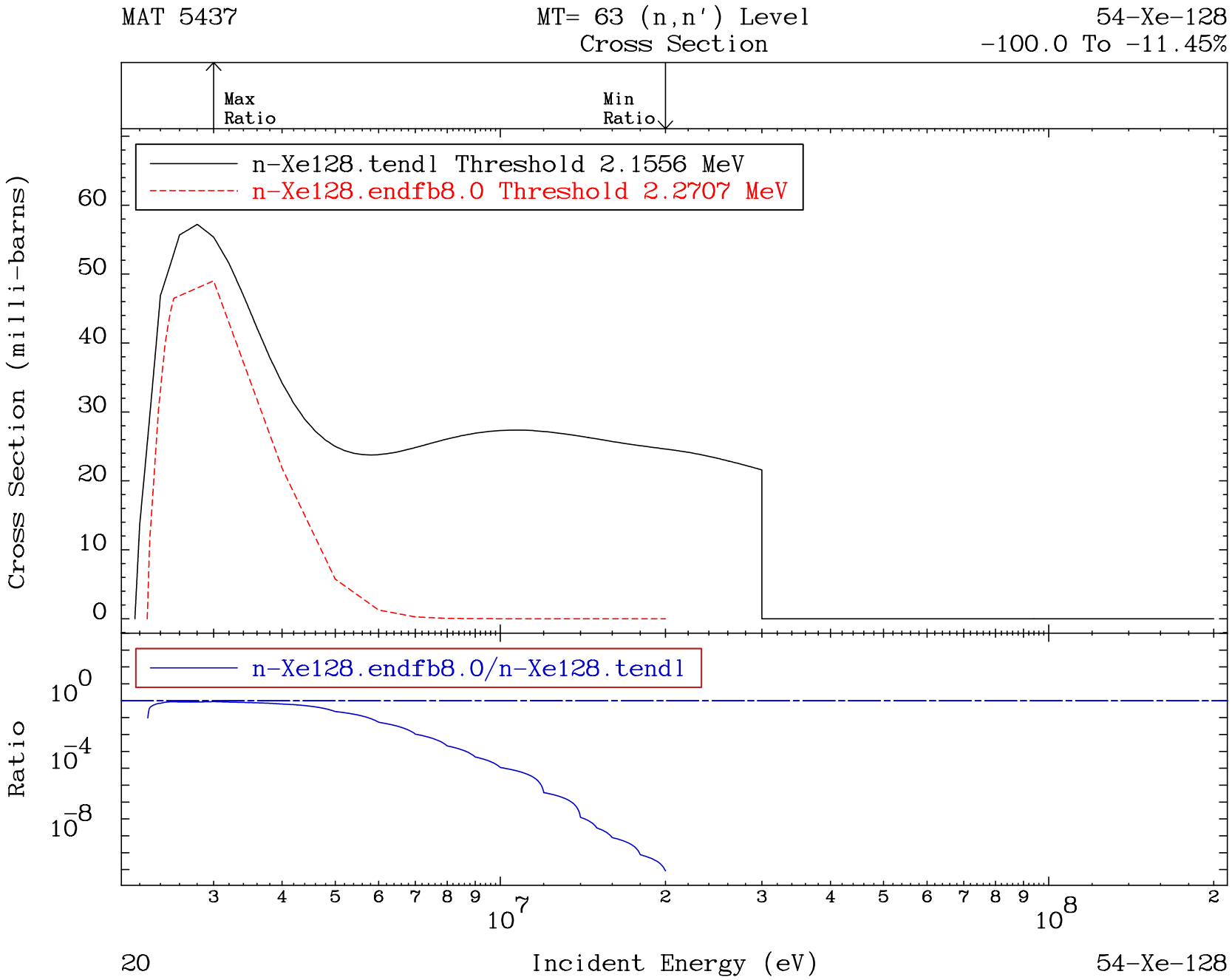

MAT 5437
MT= 58 (n,n') Level
Cross Section
54-Xe-128
-98.76 To 208.6 %
Max
Ratio
Min
Ratio
n-Xe128.tendl Threshold 1.8921 MeV
n-Xe128.endfb8.0 Threshold 1.8921 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^1
10^0
10^-1
10^-2
2
3
4
5
6
7
8
10^7
10^8
15
Incident Energy (eV)
54-Xe-128

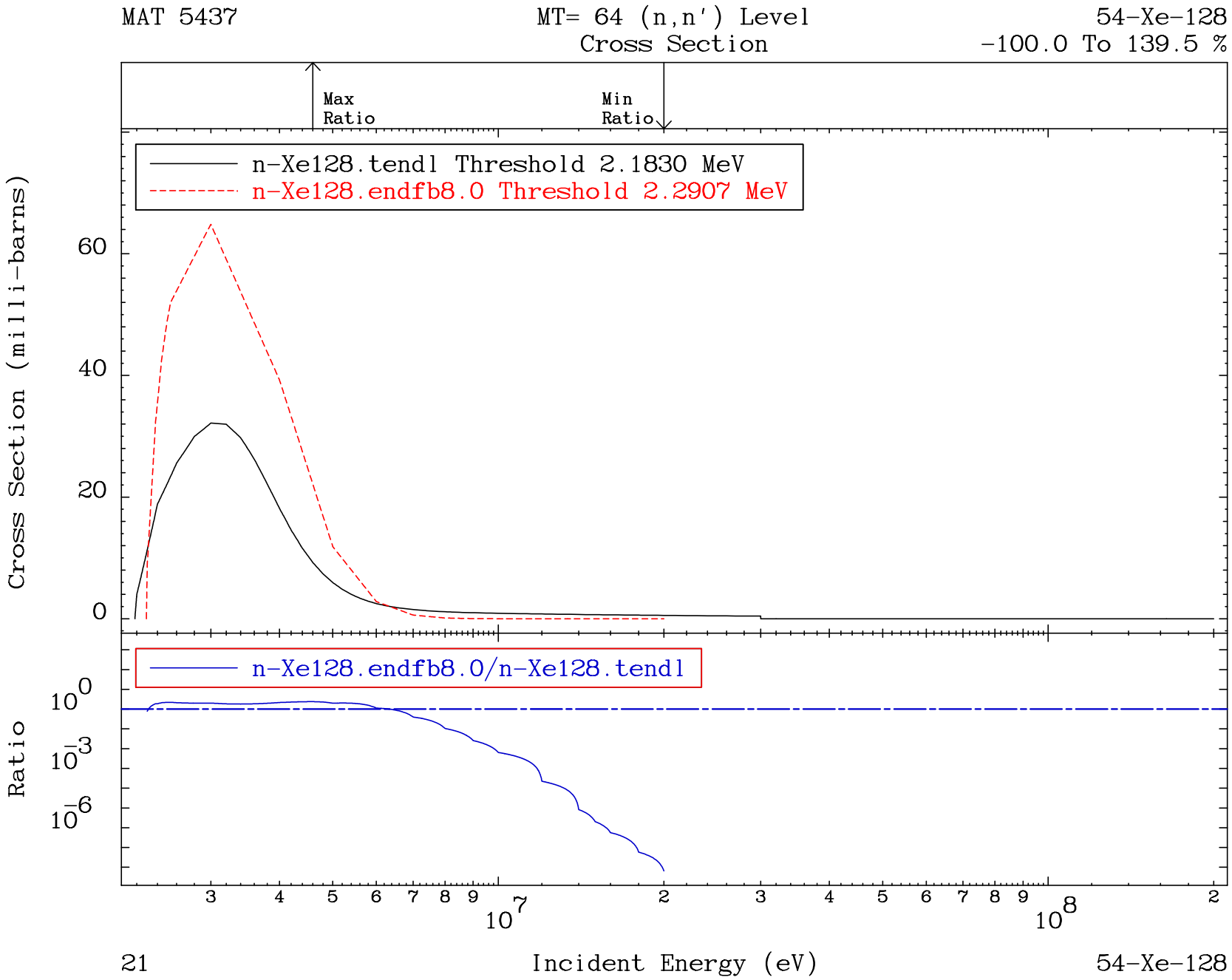

MAT 5437
MT= 59 (n,n') Level
Cross Section
54-Xe-128
-98.85 To 1167. %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 2.0125 MeV
n-Xe128.endfb8.0 Threshold 2.0122 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^1
10^0
10^-1
10^-2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
54-Xe-128

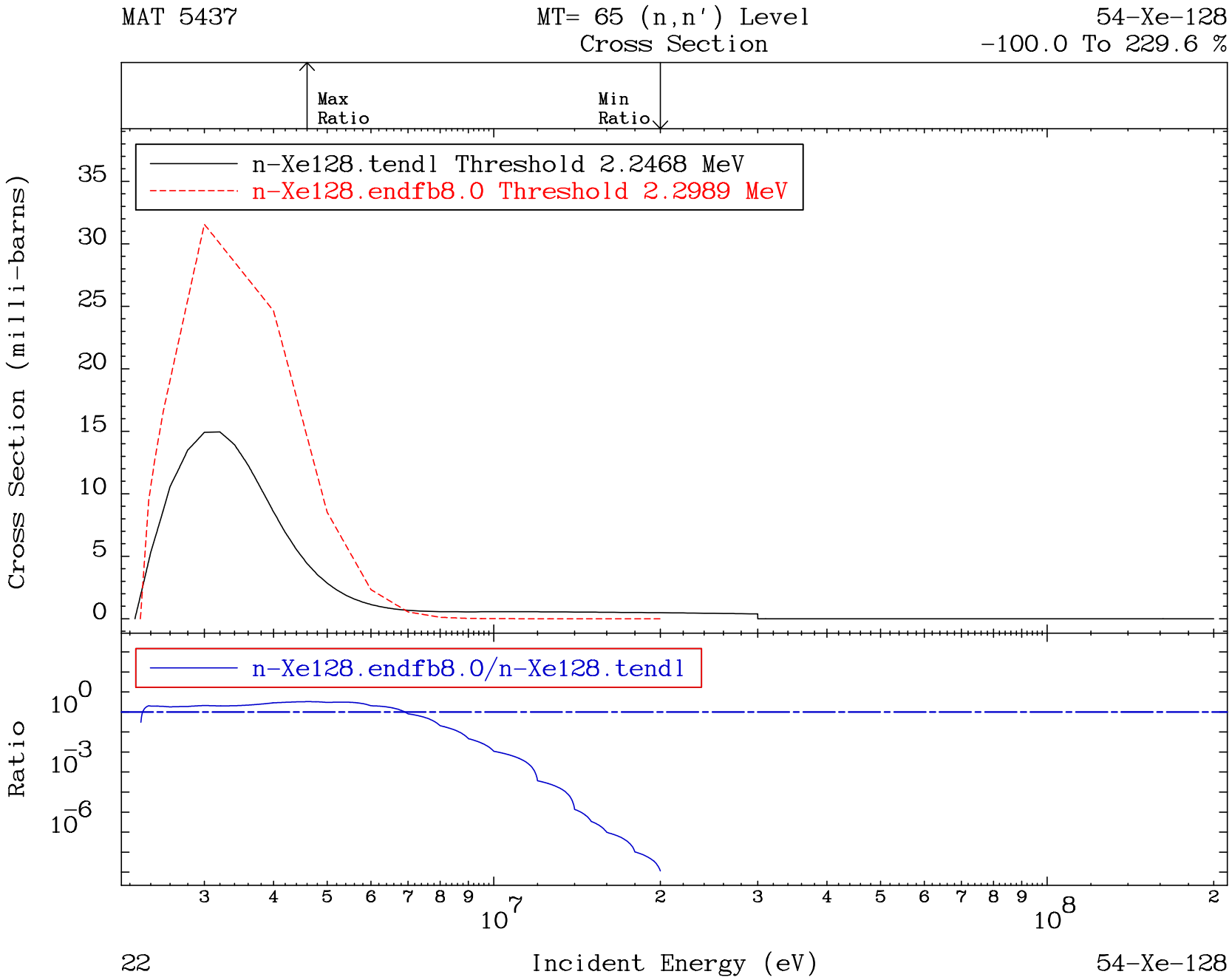

MAT 5437
MT= 60 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 119.5 %
Max
Ratio
Min
Ratio
n-Xe128.tendl Threshold 2.0154 MeV
n-Xe128.endfb8.0 Threshold 2.0154 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
54-Xe-128

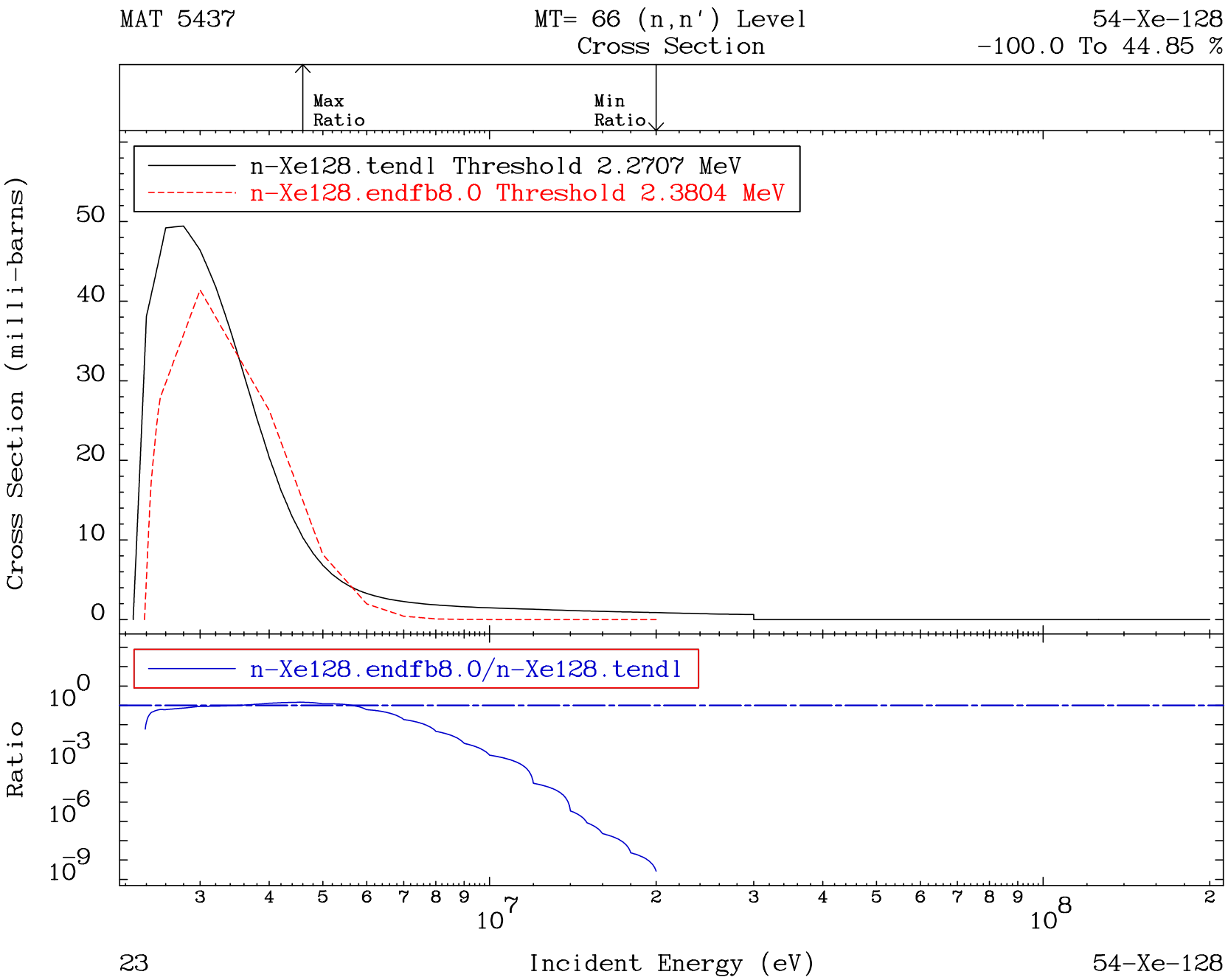

MAT 5437
MT= 61 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 75.63 %
Max
Ratio
Min
Ratio
n-Xe128.tendl Threshold 2.0390 MeV
n-Xe128.endfb8.0 Threshold 2.1439 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
54-Xe-128

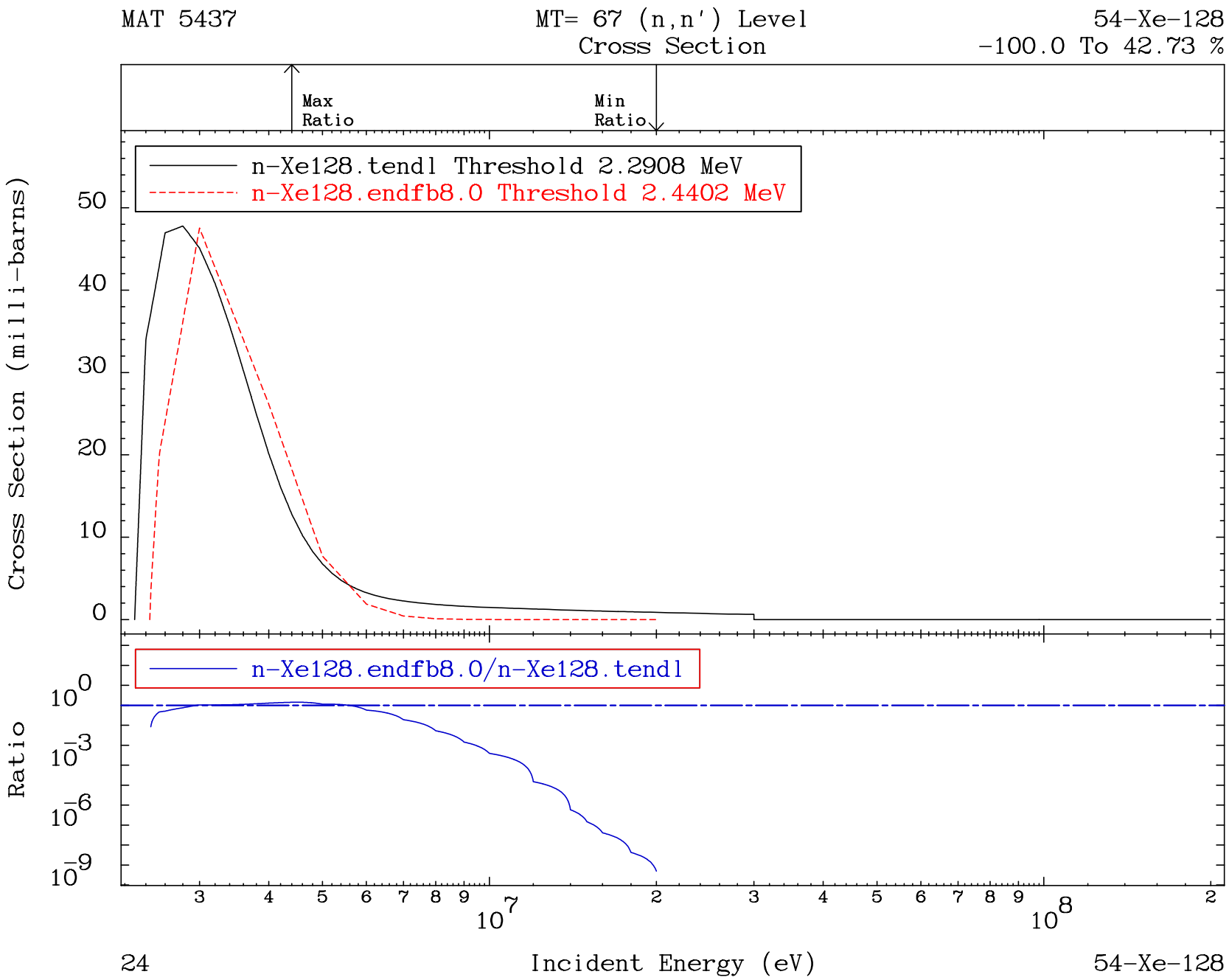

MAT 5437
MT= 62 (n,n') Level
Cross Section
54-Xe-128
-98.86 To 120.0 %
Min Ratio
Max Ratio
n-Xe128.tendl Threshold 2.1438 MeV
n-Xe128.endfb8.0 Threshold 2.2466 MeV
Cross Section (milli-barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
Incident Energy (eV)
19
54-Xe-128

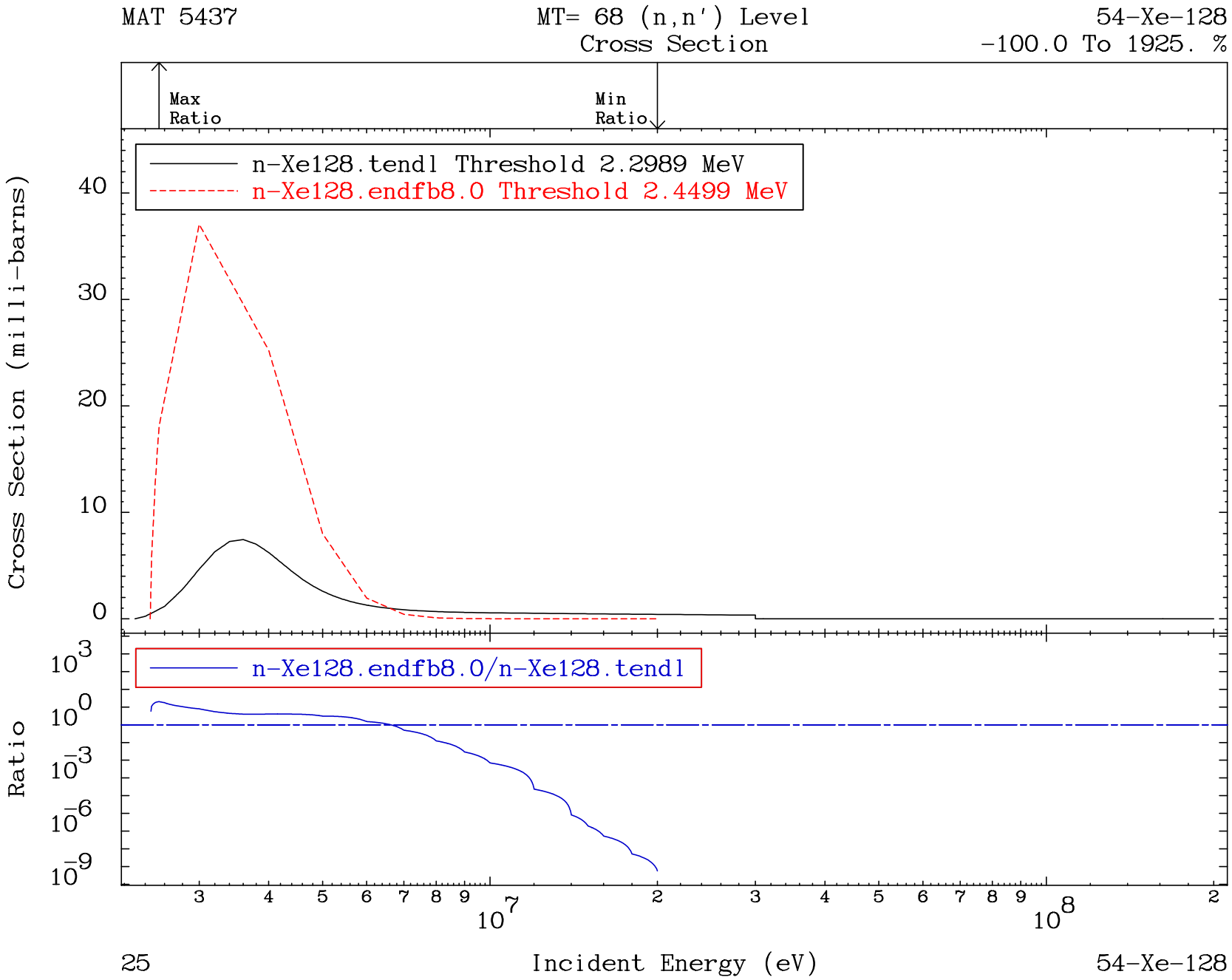

MAT 5437
MT= 63 (n,n') Level
Cross Section
54-Xe-128
-100.0 To -11.45%
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 2.1556 MeV
n-Xe128.endfb8.0 Threshold 2.2707 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-4
10^-8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
54-Xe-128

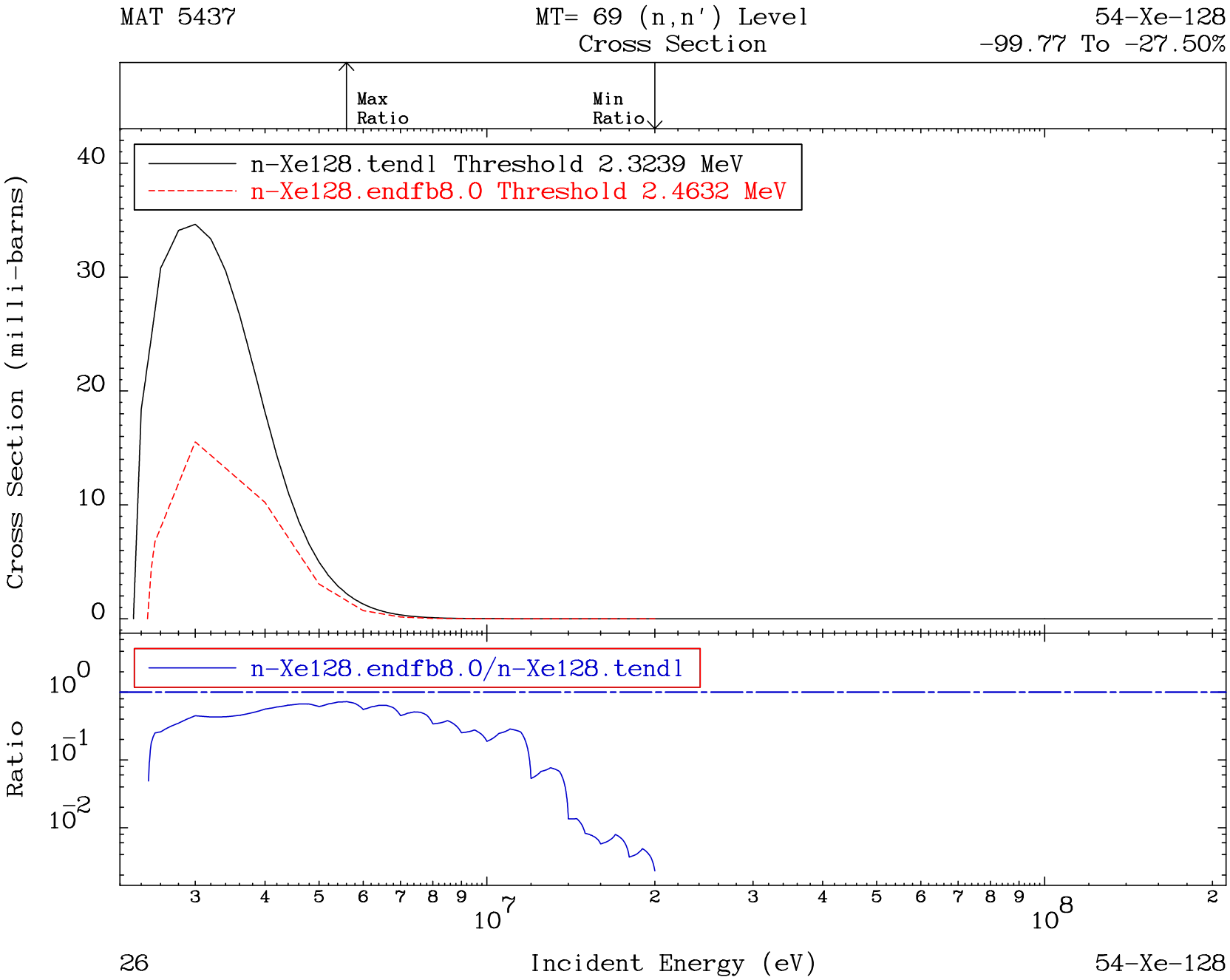

MAT 5437
MT= 64 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 139.5 %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 2.1830 MeV
n-Xe128.endfb8.0 Threshold 2.2907 MeV
Cross Section (milli-barns)
60
40
20
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
54-Xe-128

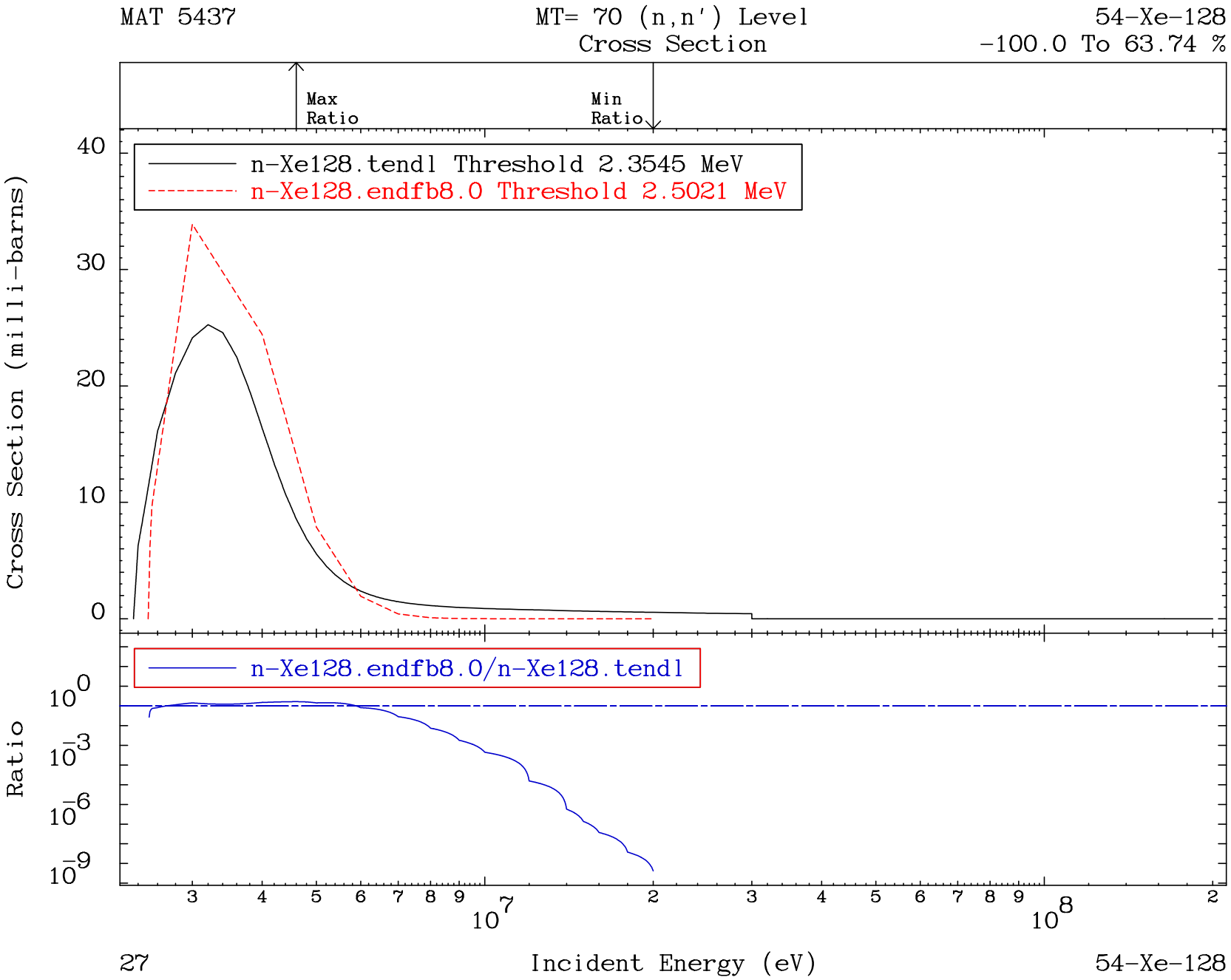

MAT 5437
MT= 65 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 229.6 %
Max
Ratio
Min
Ratio
n-Xe128.tendl Threshold 2.2468 MeV
n-Xe128.endfb8.0 Threshold 2.2989 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
54-Xe-128

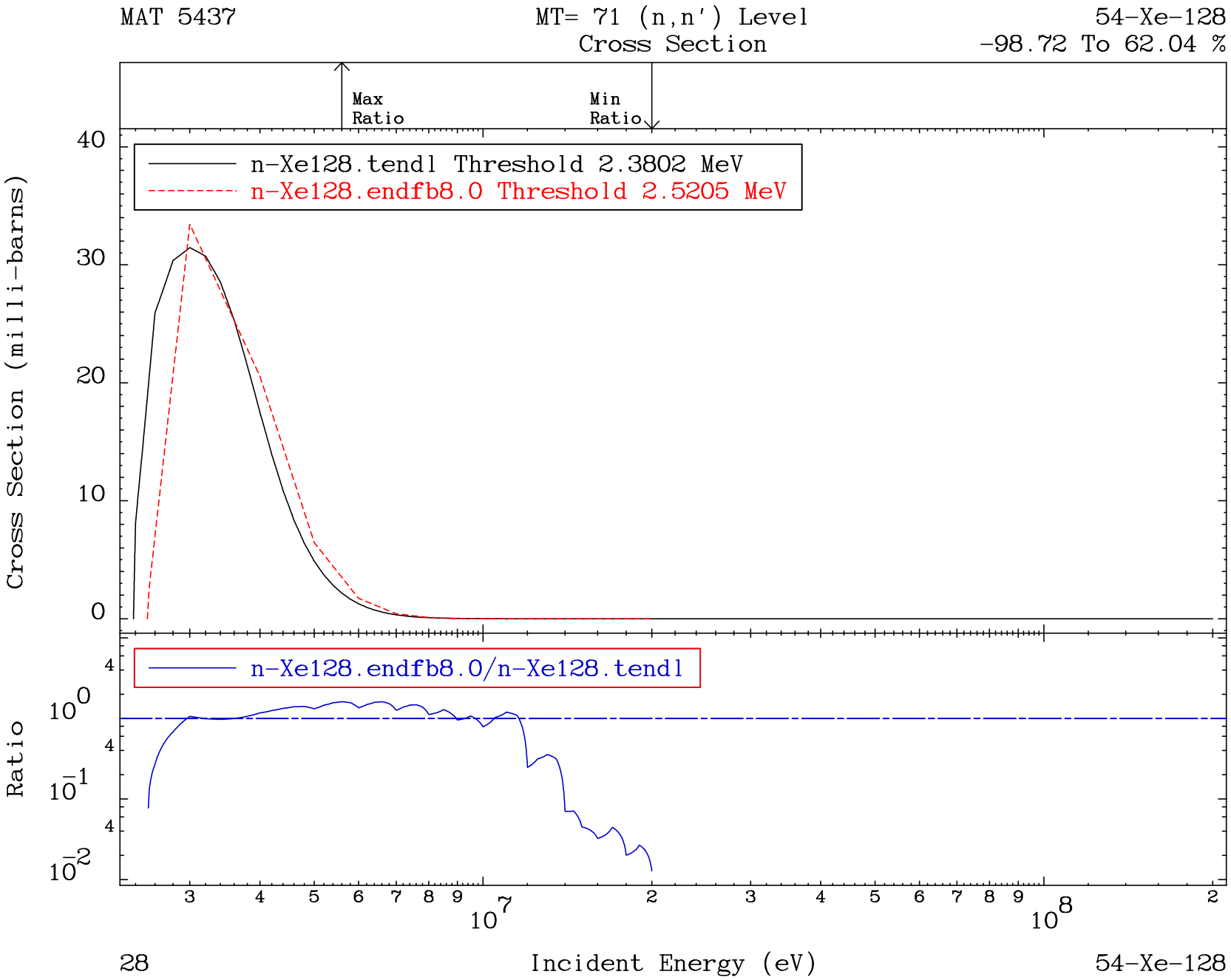

MAT 5437
MT= 66 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 44.85 %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 2.2707 MeV
n-Xe128.endfb8.0 Threshold 2.3804 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
10^-9
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
54-Xe-128

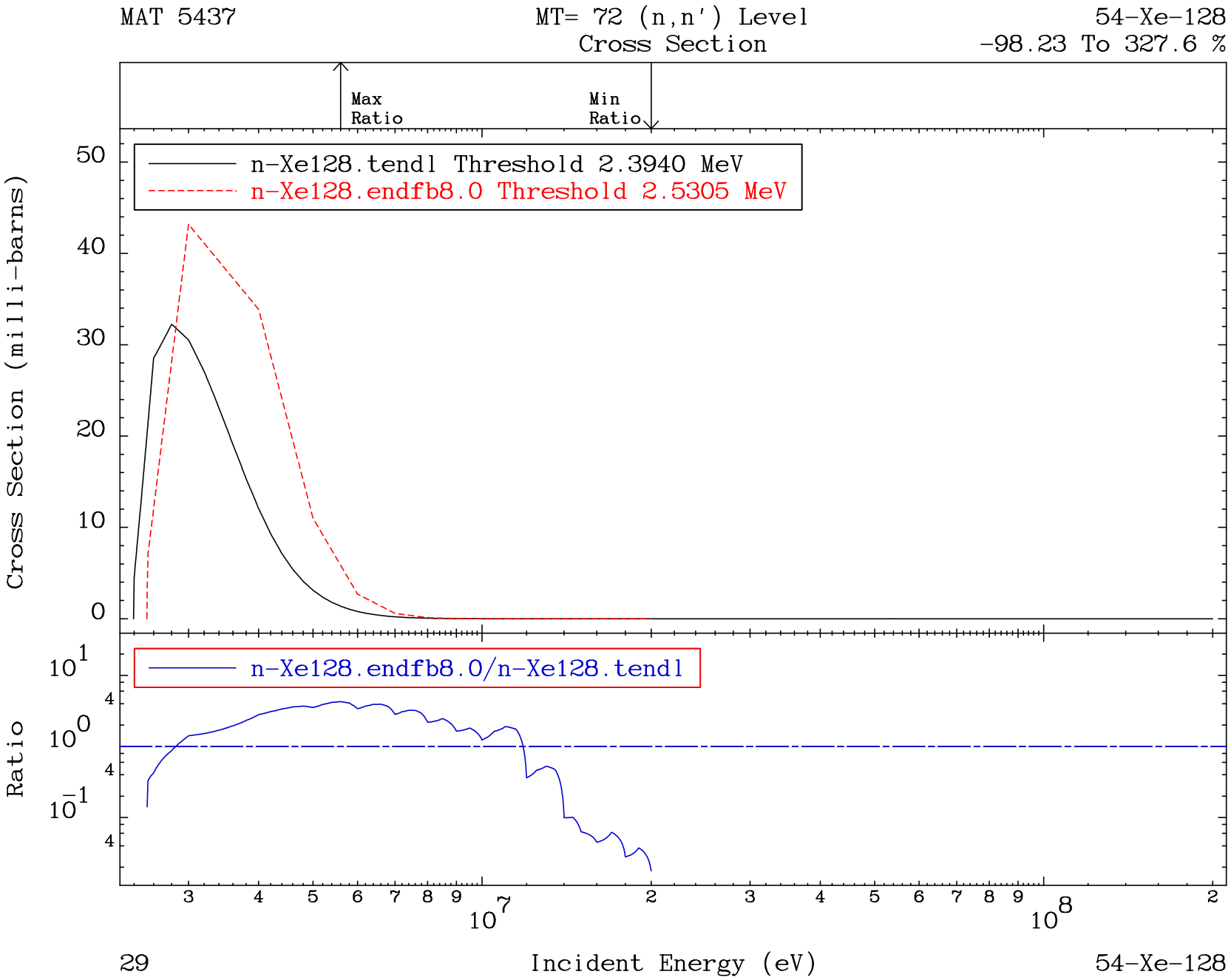

MAT 5437
MT= 67 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 42.73 %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 2.2908 MeV
n-Xe128.endfb8.0 Threshold 2.4402 MeV
Cross Section (milli-barns)
0
10
20
30
40
50
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
10^-9
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
54-Xe-128

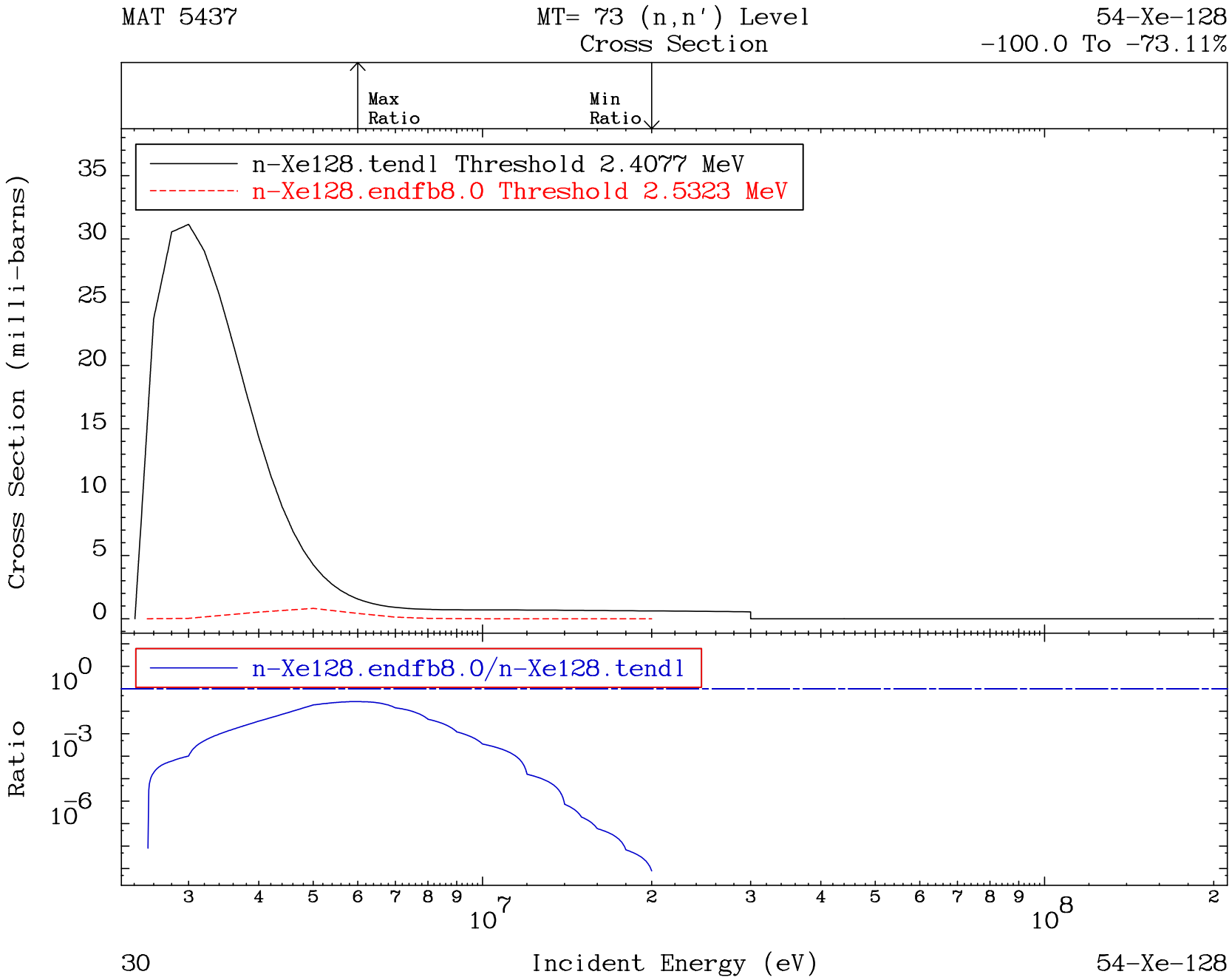

MAT 5437
MT= 68 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 1925. %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 2.2989 MeV
n-Xe128.endfb8.0 Threshold 2.4499 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^3
10^0
10^-3
10^-6
10^-9
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
54-Xe-128

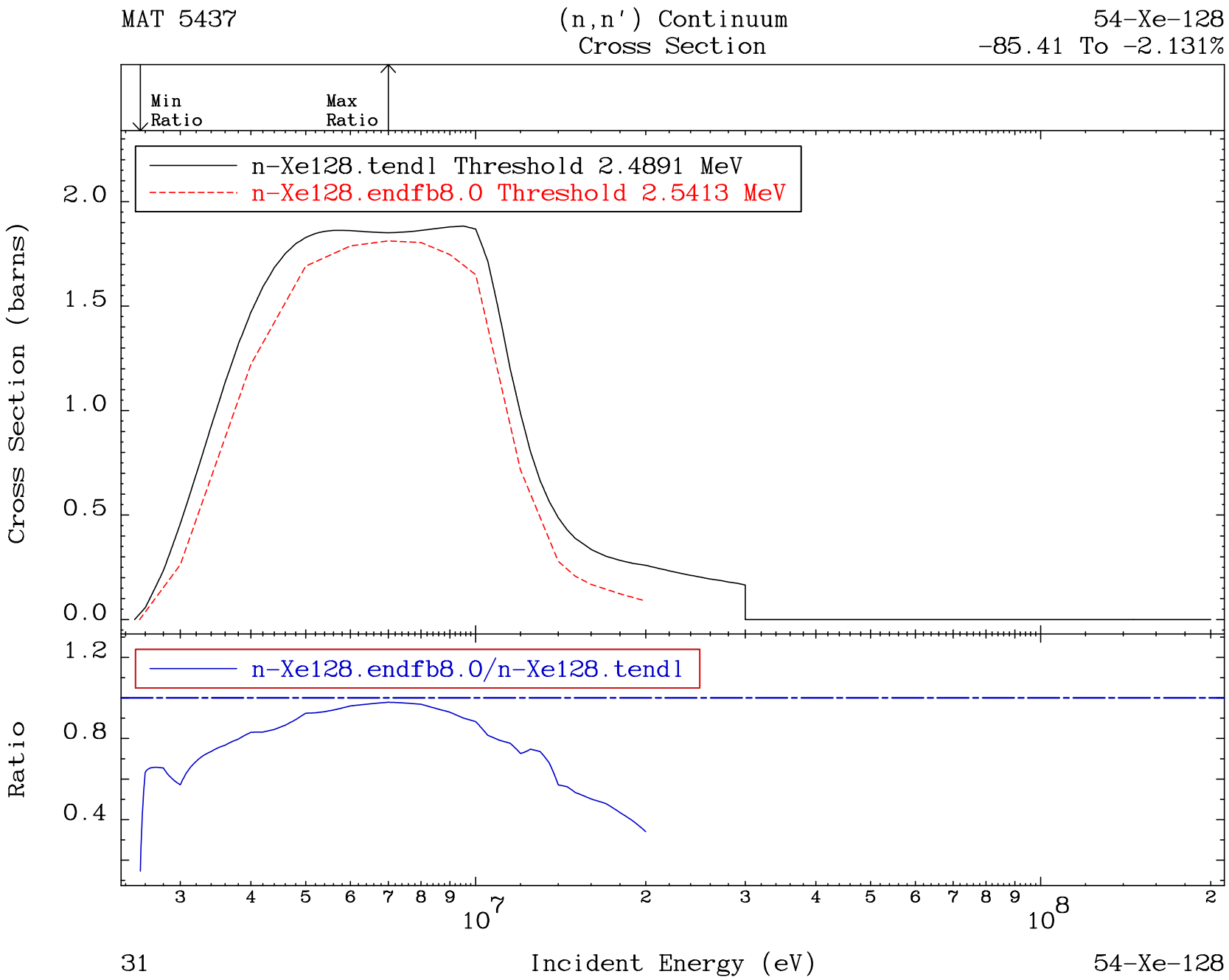

MAT 5437
MT= 69 (n,n') Level
Cross Section
54-Xe-128
-99.77 To -27.50%
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 2.3239 MeV
n-Xe128.endfb8.0 Threshold 2.4632 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
54-Xe-128

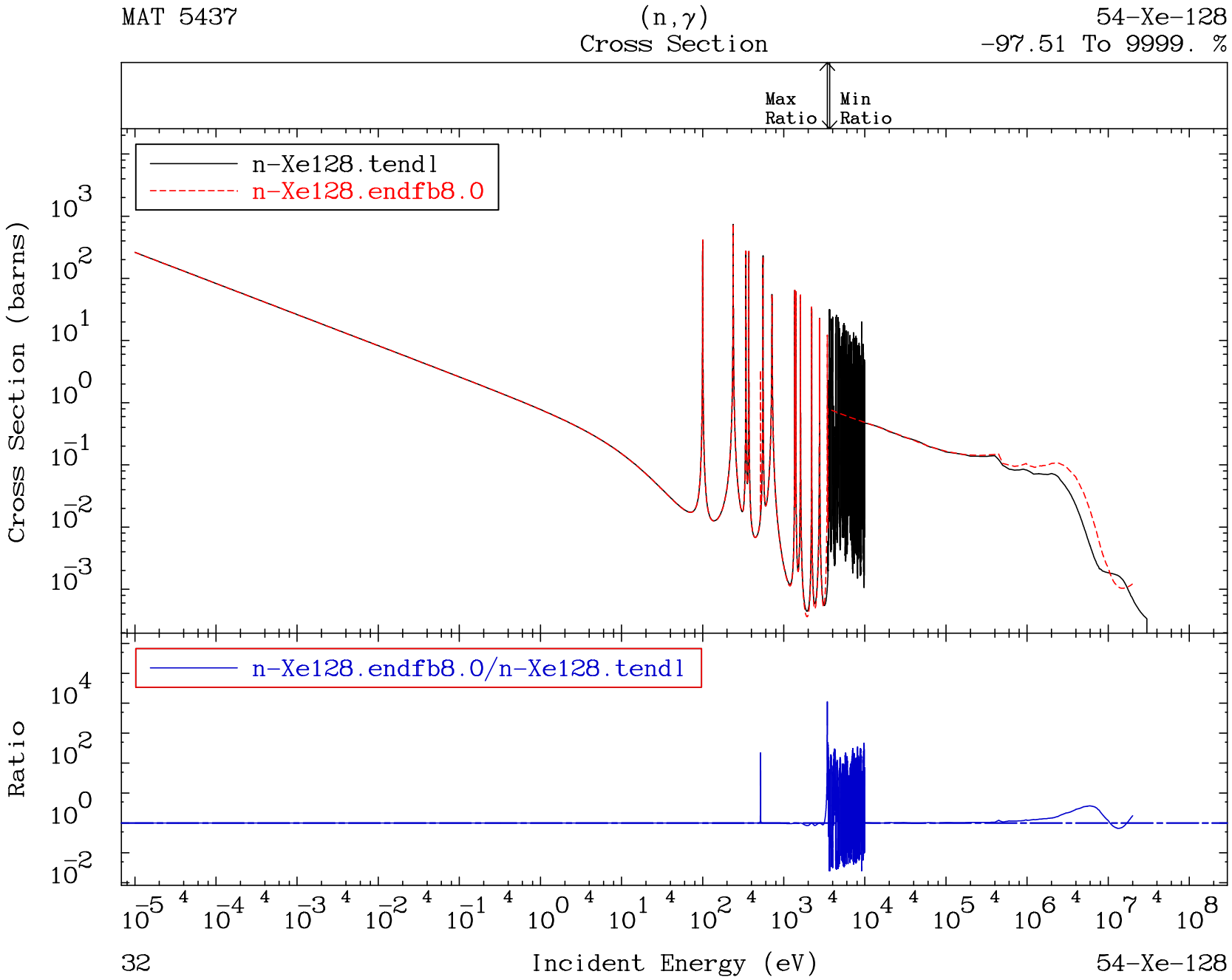

MAT 5437
MT= 70 (n,n') Level
Cross Section
54-Xe-128
-100.0 To 63.74 %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 2.3545 MeV
n-Xe128.endfb8.0 Threshold 2.5021 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
10^-9
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
54-Xe-128

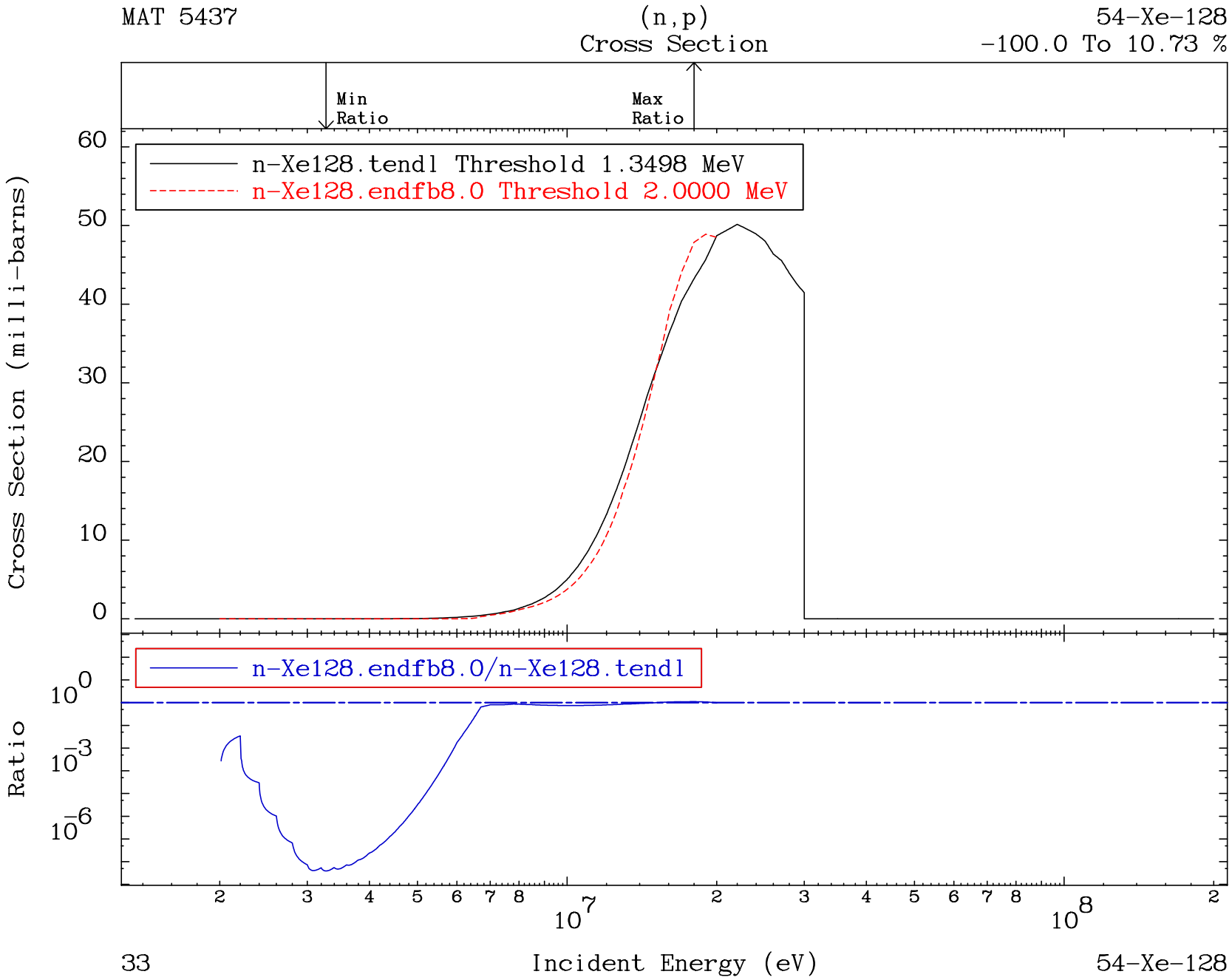

MAT 5437
MT= 71 (n,n') Level
Cross Section
54-Xe-128
-98.72 To 62.04 %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 2.3802 MeV
n-Xe128.endfb8.0 Threshold 2.5205 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
54-Xe-128

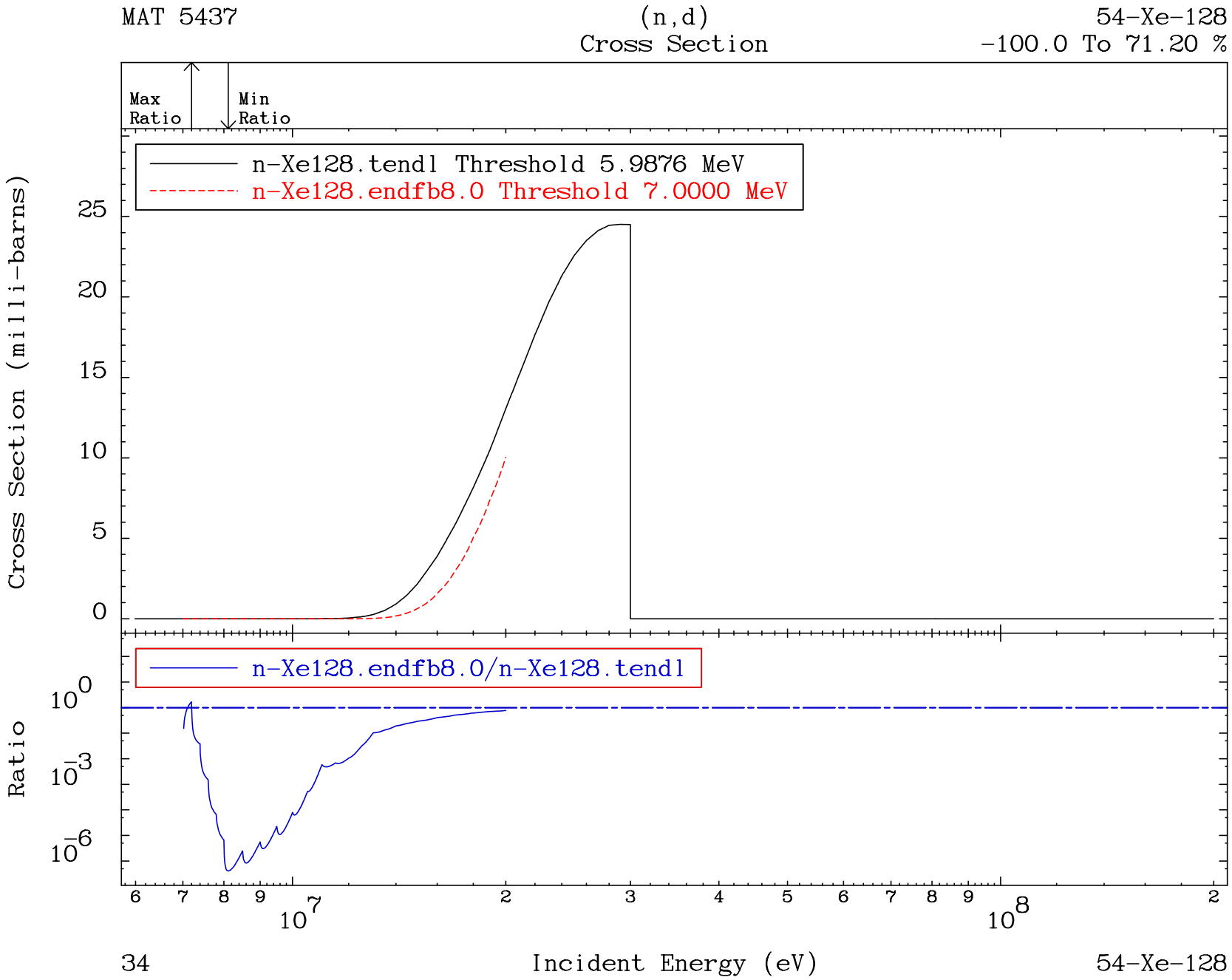

MAT 5437
MT= 72 (n,n') Level
Cross Section
54-Xe-128
-98.23 To 327.6 %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 2.3940 MeV
n-Xe128.endfb8.0 Threshold 2.5305 MeV
Cross Section (milli-barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
Incident Energy (eV)
29
54-Xe-128

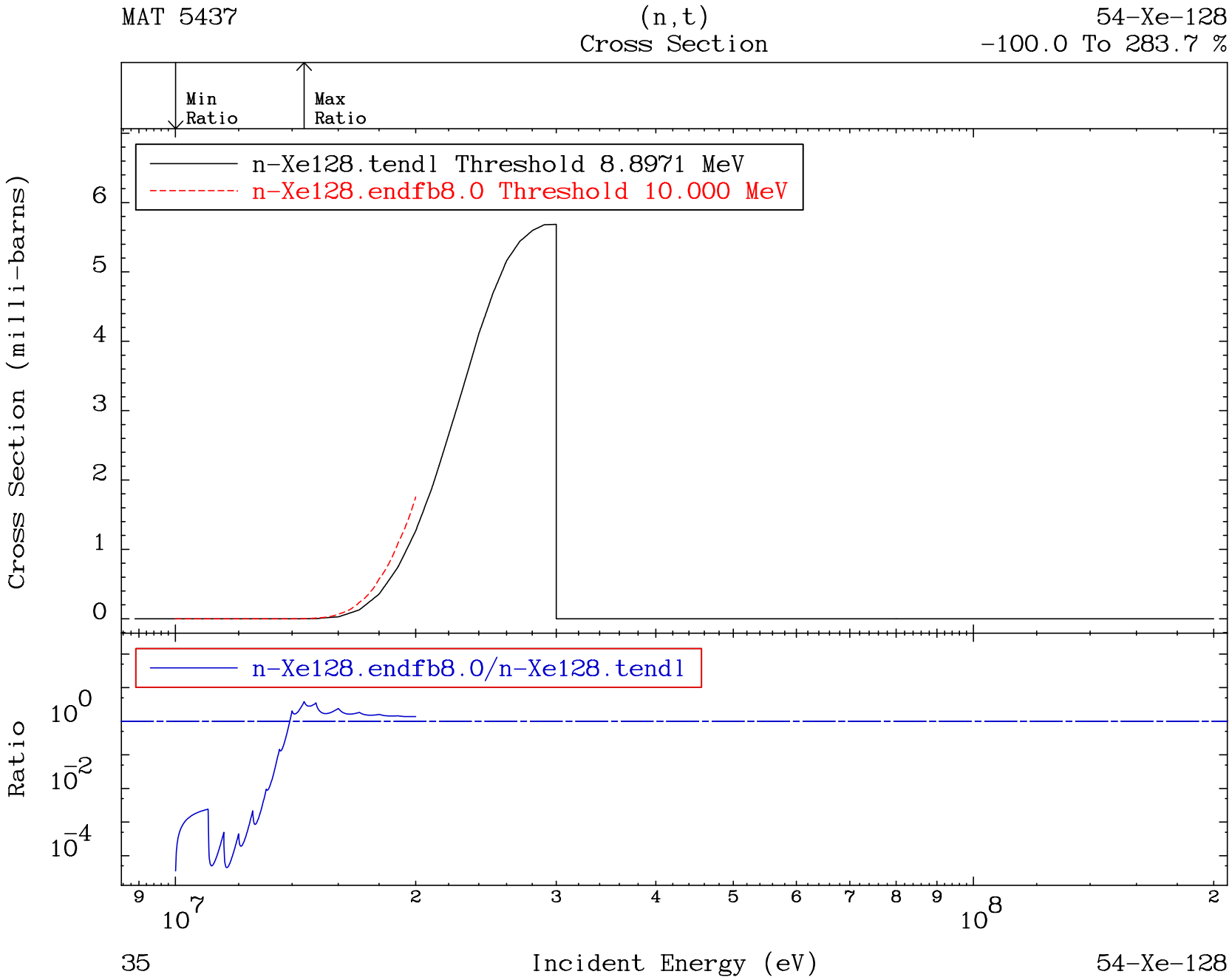

MAT 5437
MT= 73 (n,n') Level
Cross Section
54-Xe-128
-100.0 To -73.11%
Max
Ratio
Min
Ratio
n-Xe128.tendl Threshold 2.4077 MeV
n-Xe128.endfb8.0 Threshold 2.5323 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
30
Incident Energy (eV)
54-Xe-128

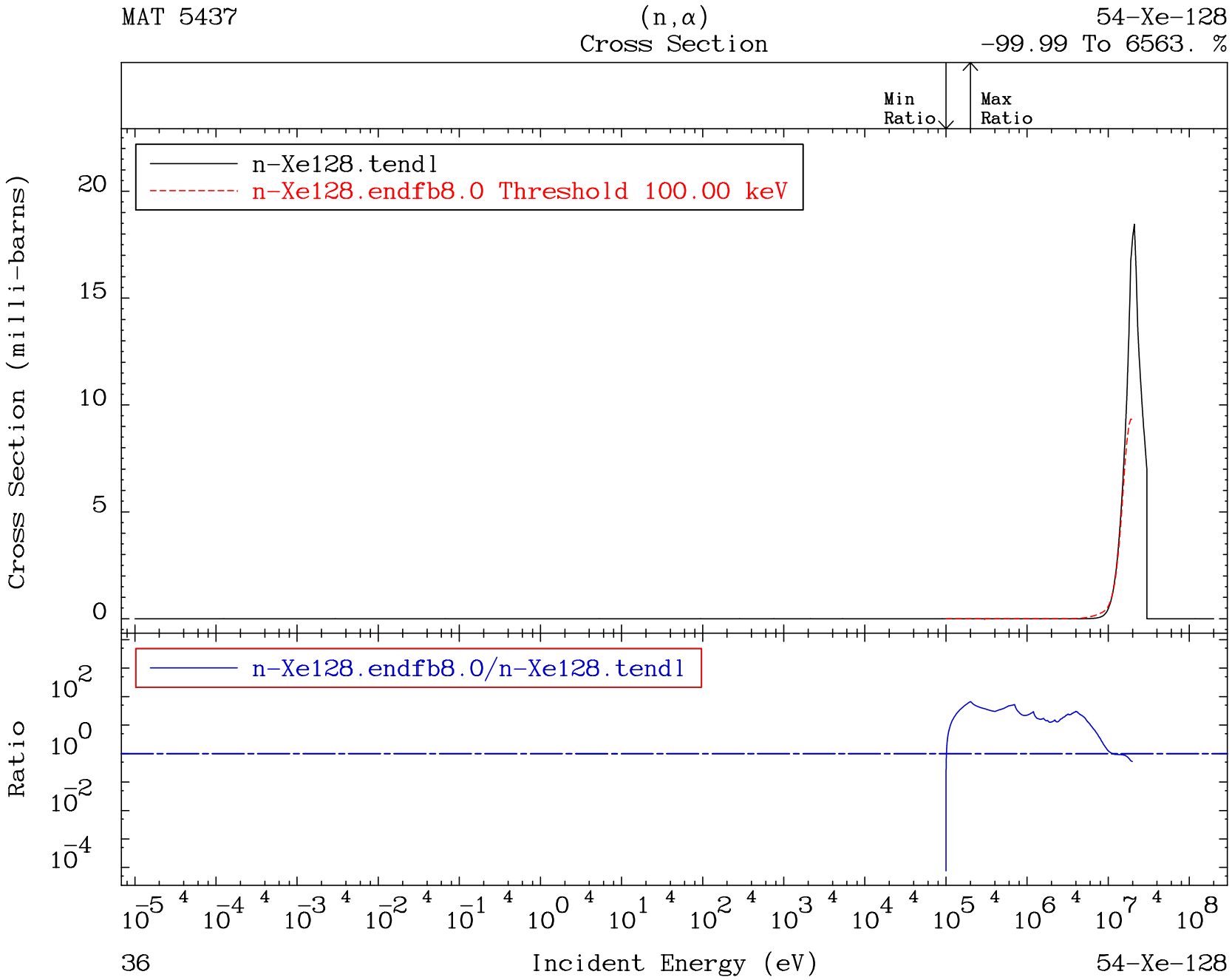

MAT 5437
(n,n') Continuum
Cross Section
54-Xe-128
-85.41 To -2.131%
Min Ratio
Max Ratio
n-Xe128.tendl Threshold 2.4891 MeV
n-Xe128.endfb8.0 Threshold 2.5413 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
54-Xe-128

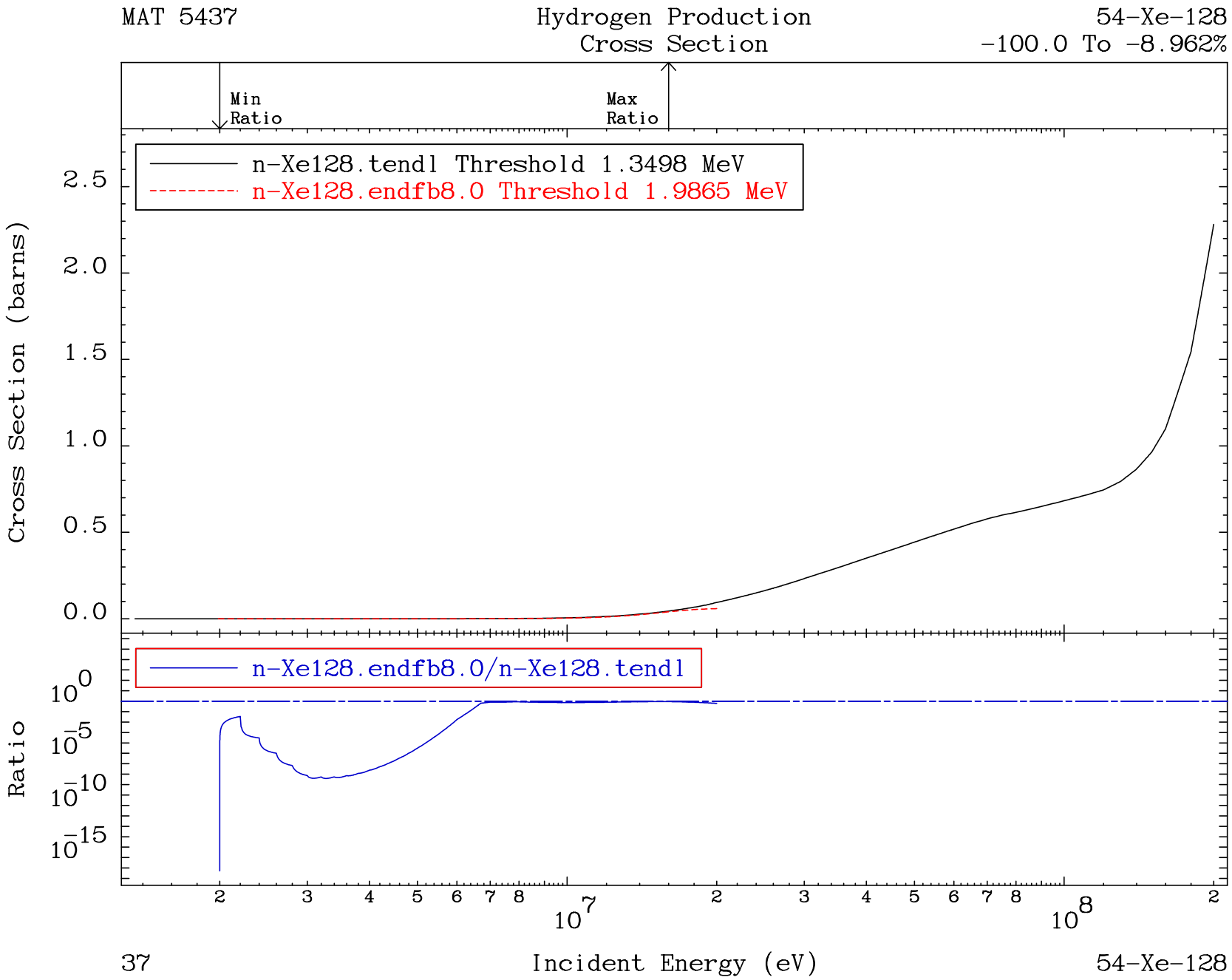

MAT 5437
(n,γ)
Cross Section
54-Xe-128
-97.51 To 9999. %
Max Ratio
Min Ratio
n-Xe128.tendl
n-Xe128.endfb8.0
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
32
Incident Energy (eV)
54-Xe-128

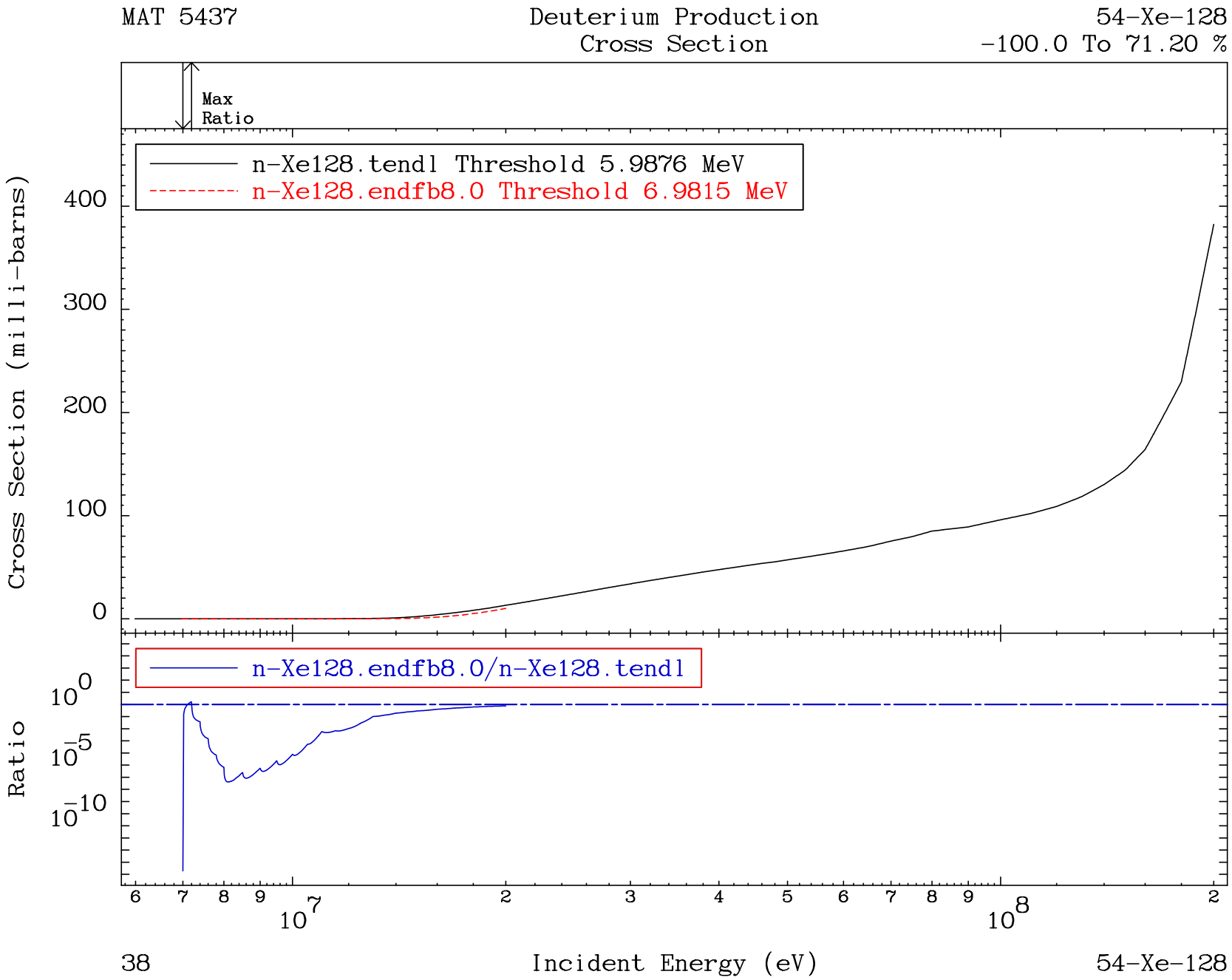

MAT 5437
(n,p)
Cross Section
54-Xe-128
-100.0 To 10.73 %
Min Ratio
Max Ratio
n-Xe128.tendl Threshold 1.3498 MeV
n-Xe128.endfb8.0 Threshold 2.0000 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
54-Xe-128

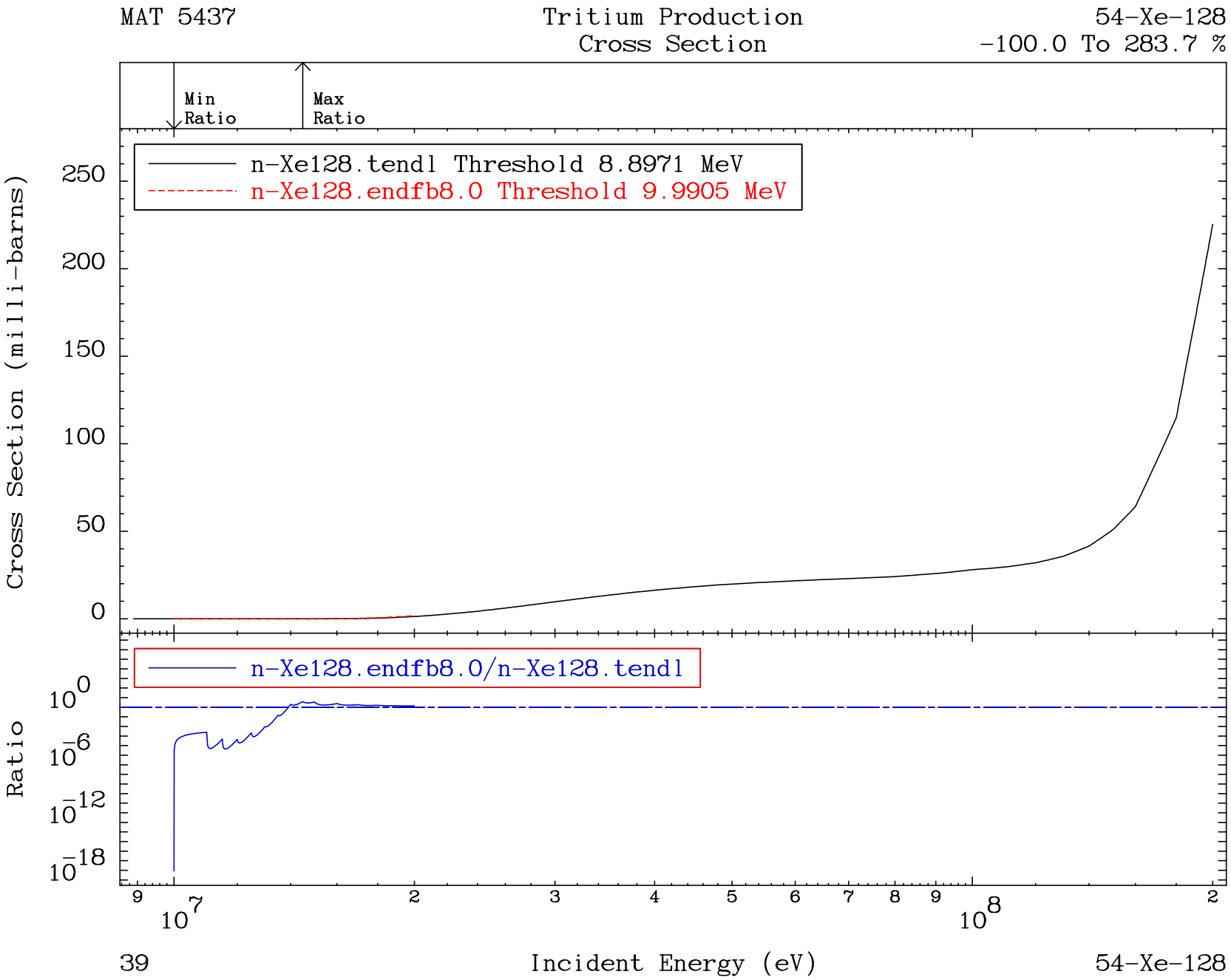

MAT 5437
(n,d)
Cross Section
54-Xe-128
-100.0 To 71.20 %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 5.9876 MeV
n-Xe128.endfb8.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
0
5
10
15
20
25
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-3
10^-6
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
54-Xe-128

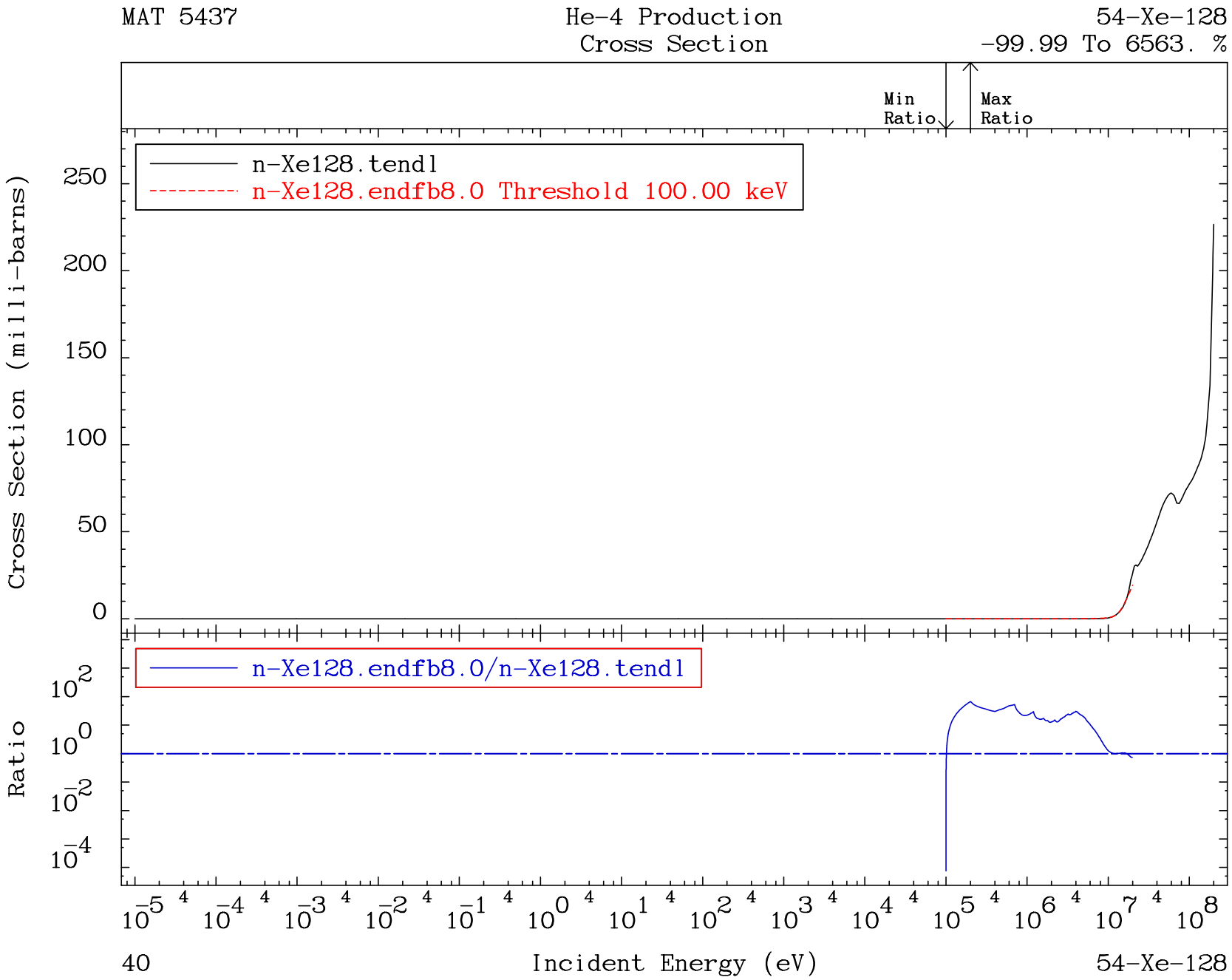

MAT 5437
(n,t)
Cross Section
54-Xe-128
-100.0 To 283.7 %
Min Ratio
Max Ratio
n-Xe128.tendl Threshold 8.8971 MeV
n-Xe128.endfb8.0 Threshold 10.000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-2
10^-4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
35
Incident Energy (eV)
54-Xe-128

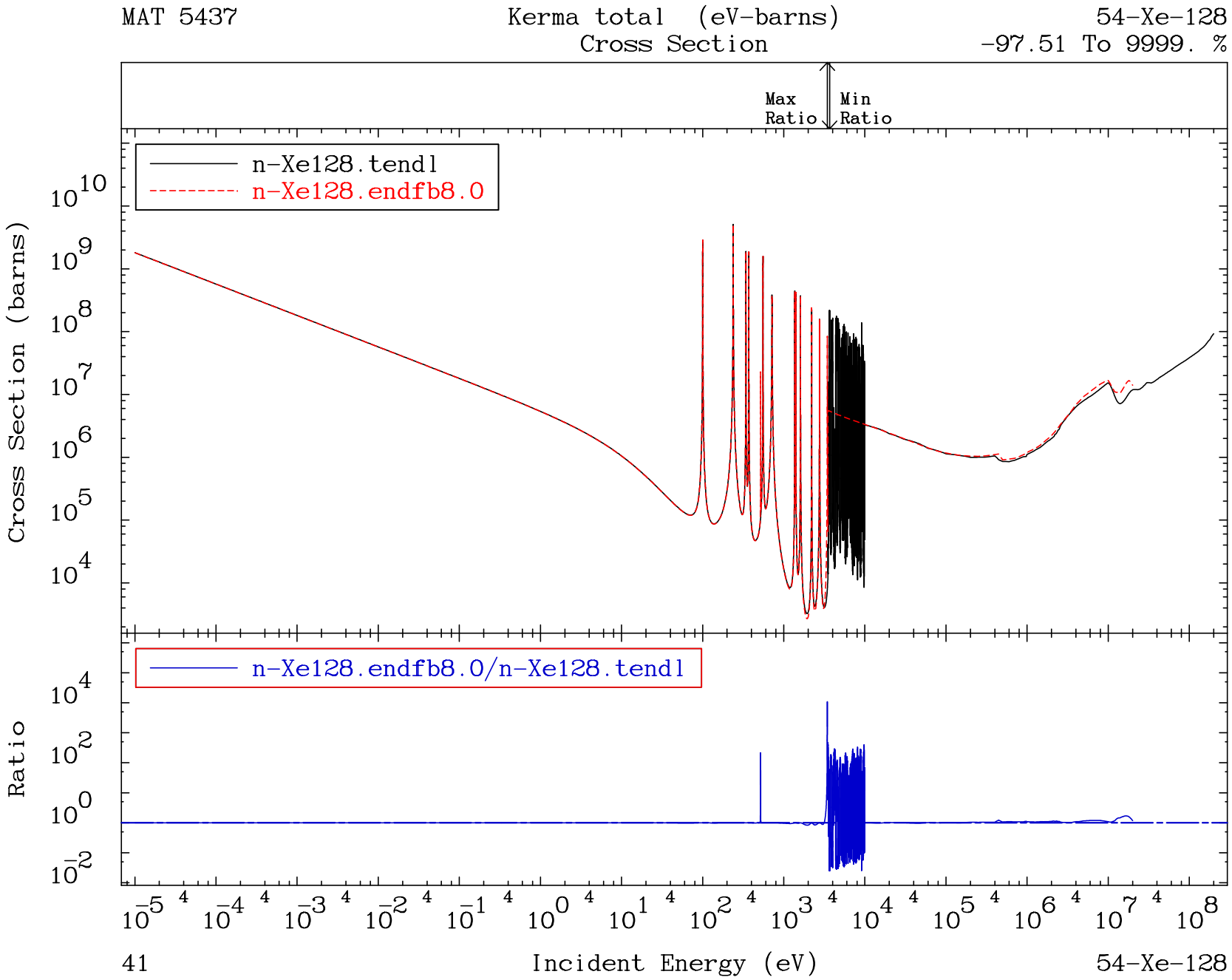

MAT 5437
(n,α)
Cross Section
54-Xe-128
-99.99 To 6563. %
Min Ratio
Max Ratio
n-Xe128.tendl
n-Xe128.endfb8.0 Threshold 100.00 keV
Cross Section (milli-barns)
20
15
10
5
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^2
10^0
10^-2
10^-4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
36
Incident Energy (eV)
54-Xe-128

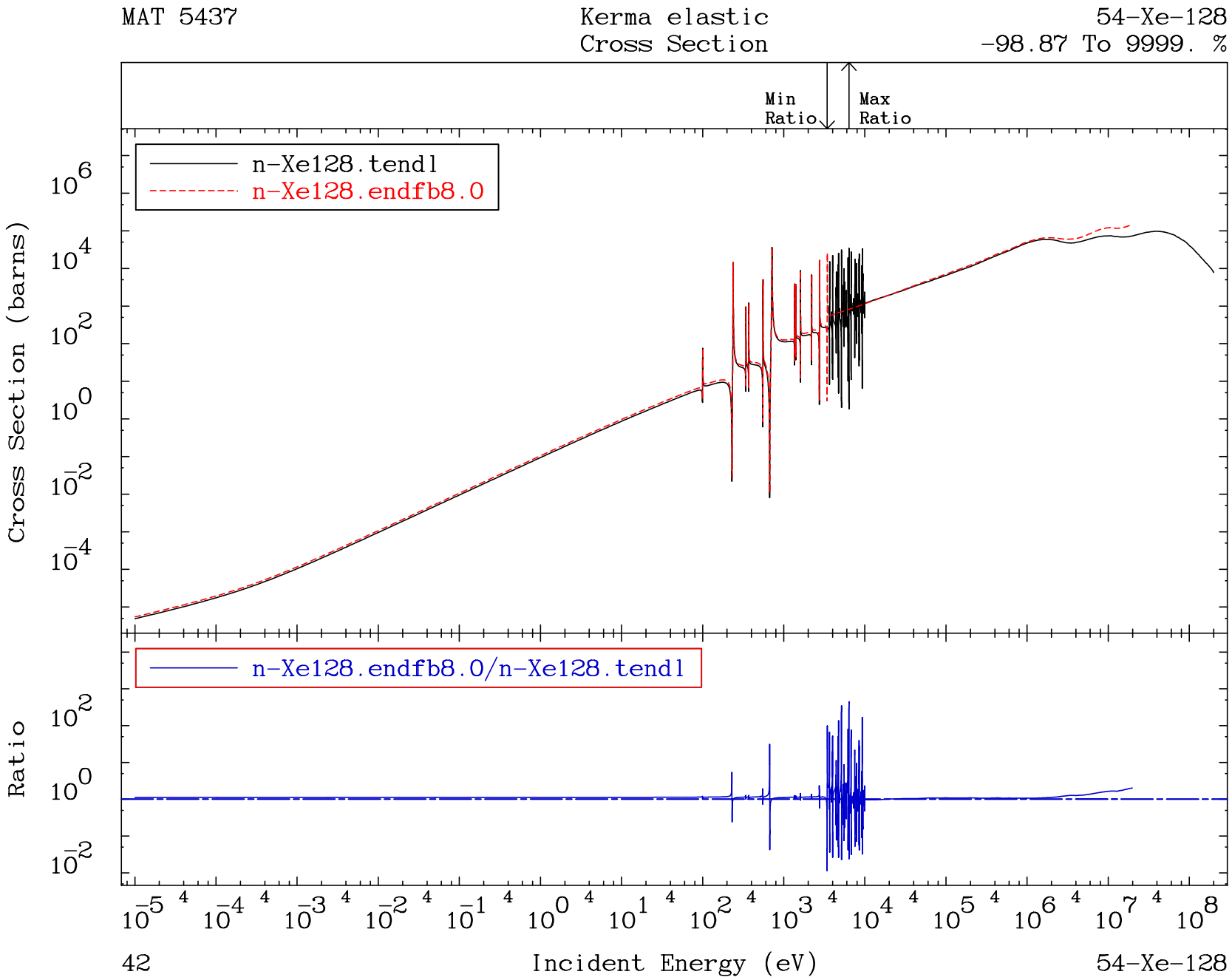

MAT 5437
Hydrogen Production
Cross Section
54-Xe-128
-100.0 To -8.962%
Min Ratio
Max Ratio
n-Xe128.tendl Threshold 1.3498 MeV
n-Xe128.endfb8.0 Threshold 1.9865 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-5
10^-10
10^-15
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
54-Xe-128

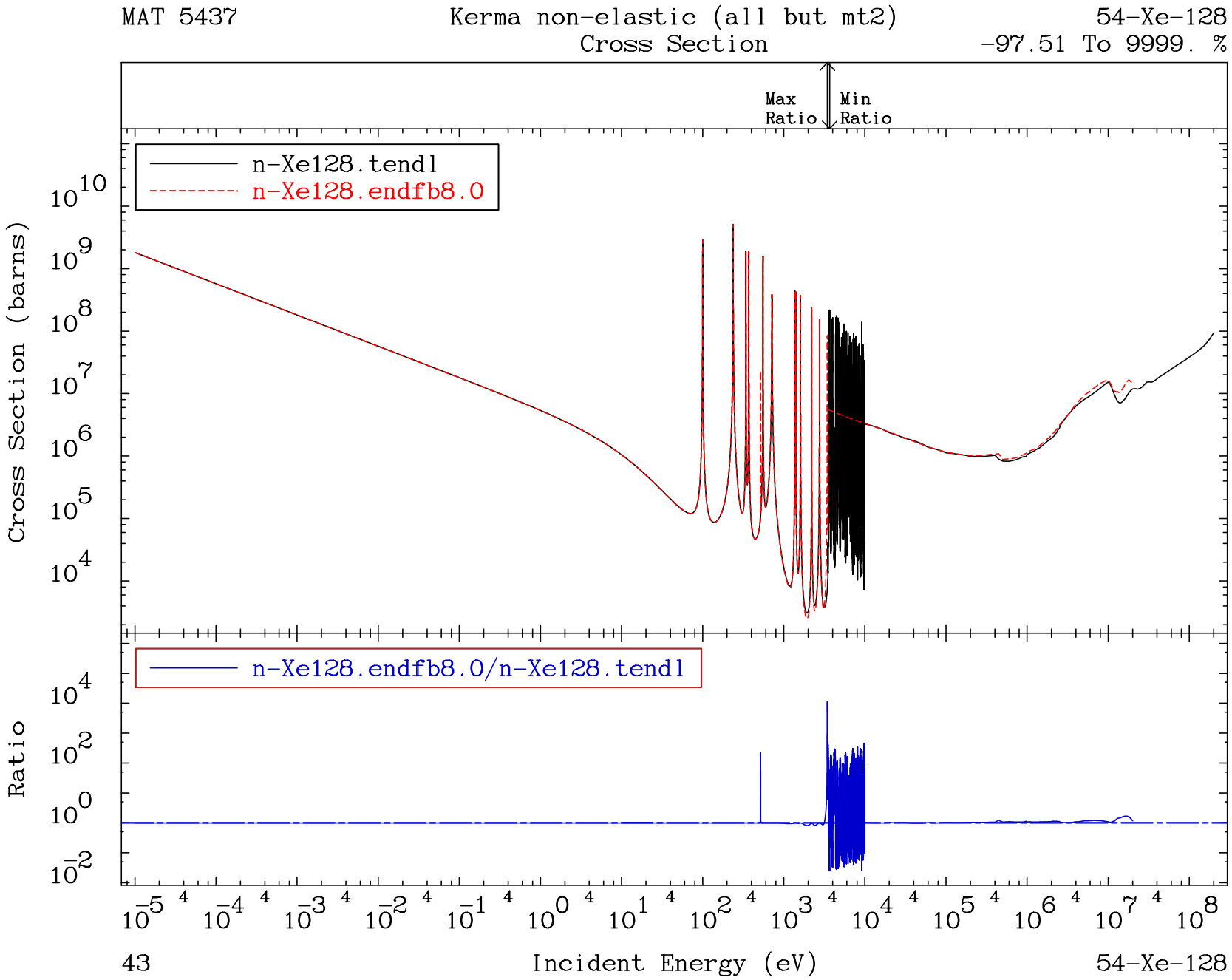

MAT 5437
Deuterium Production
Cross Section
54-Xe-128
-100.0 To 71.20 %
Max
Ratio
n-Xe128.tendl Threshold 5.9876 MeV
n-Xe128.endfb8.0 Threshold 6.9815 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-5
10^-10
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
54-Xe-128

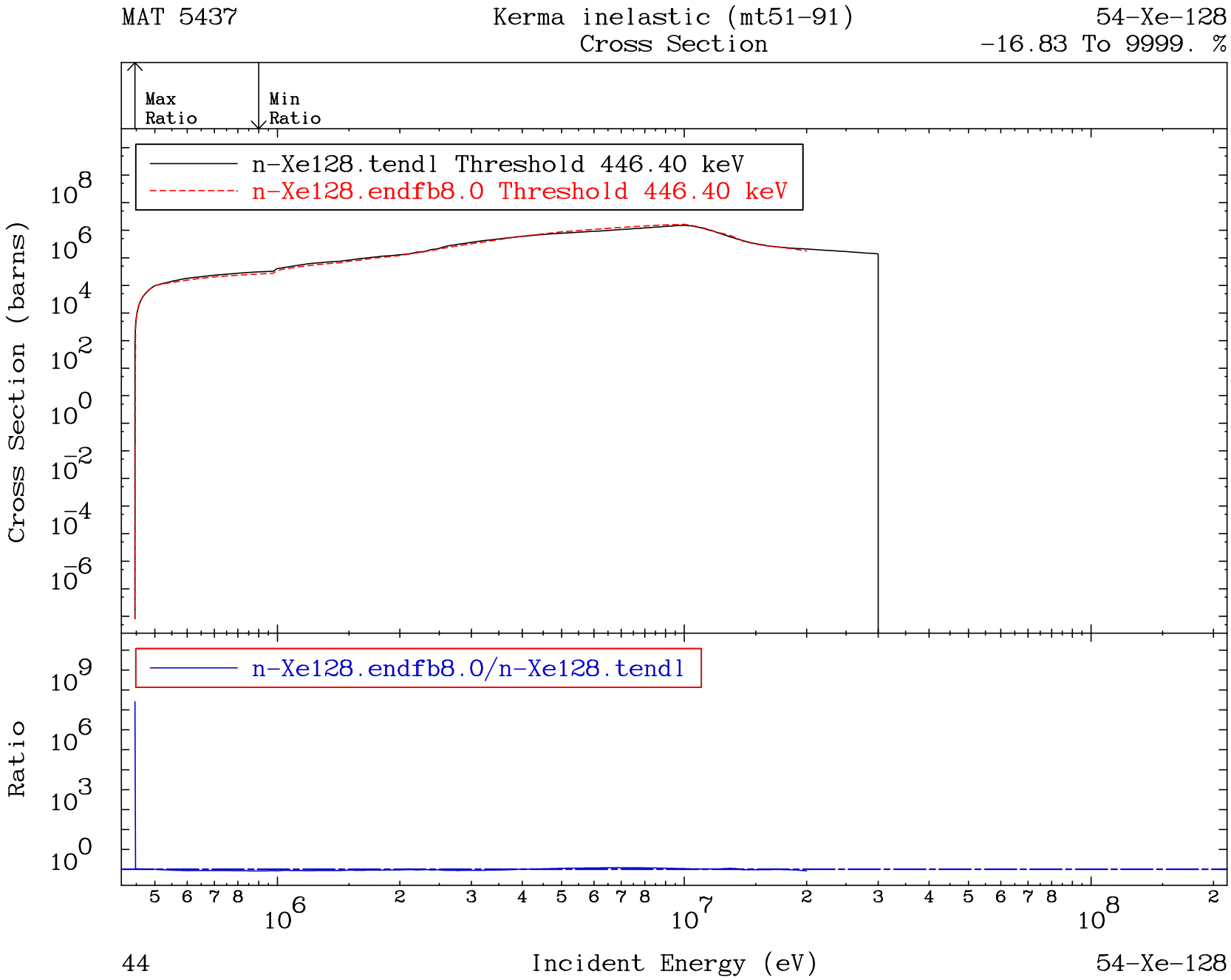

MAT 5437
Tritium Production
Cross Section
54-Xe-128
-100.0 To 283.7 %
Min Ratio
Max Ratio
n-Xe128.tendl Threshold 8.8971 MeV
n-Xe128.endfb8.0 Threshold 9.9905 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^0
10^-6
10^-12
10^-18
9
10^7
2
3
4
5
6
7
8
9
10^8
2
39
Incident Energy (eV)
54-Xe-128

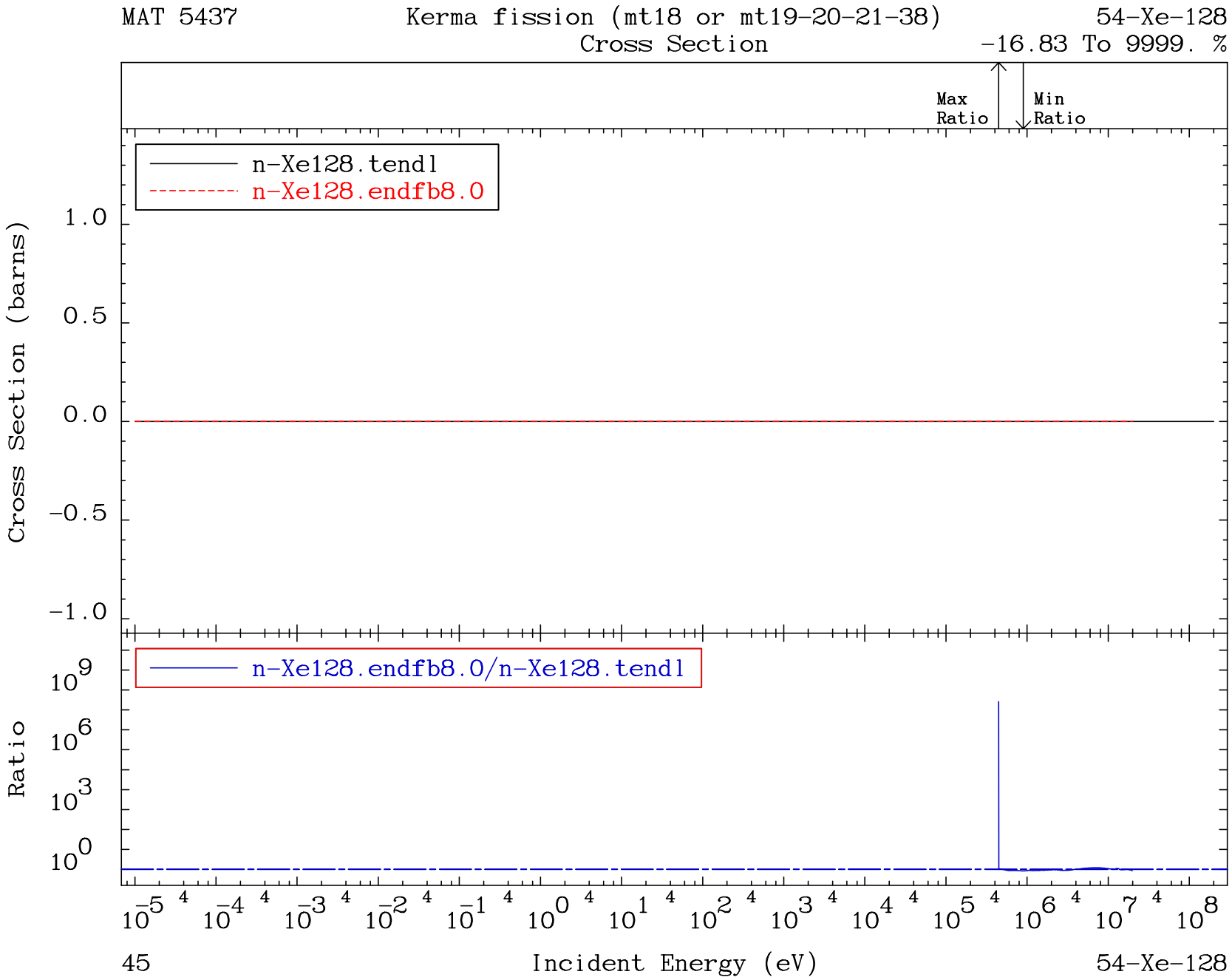

MAT 5437
He-4 Production
Cross Section
54-Xe-128
-99.99 To 6563. %
Min Ratio
Max Ratio
n-Xe128.tendl
n-Xe128.endfb8.0 Threshold 100.00 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^2
10^0
10^-2
10^-4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
40
Incident Energy (eV)
54-Xe-128

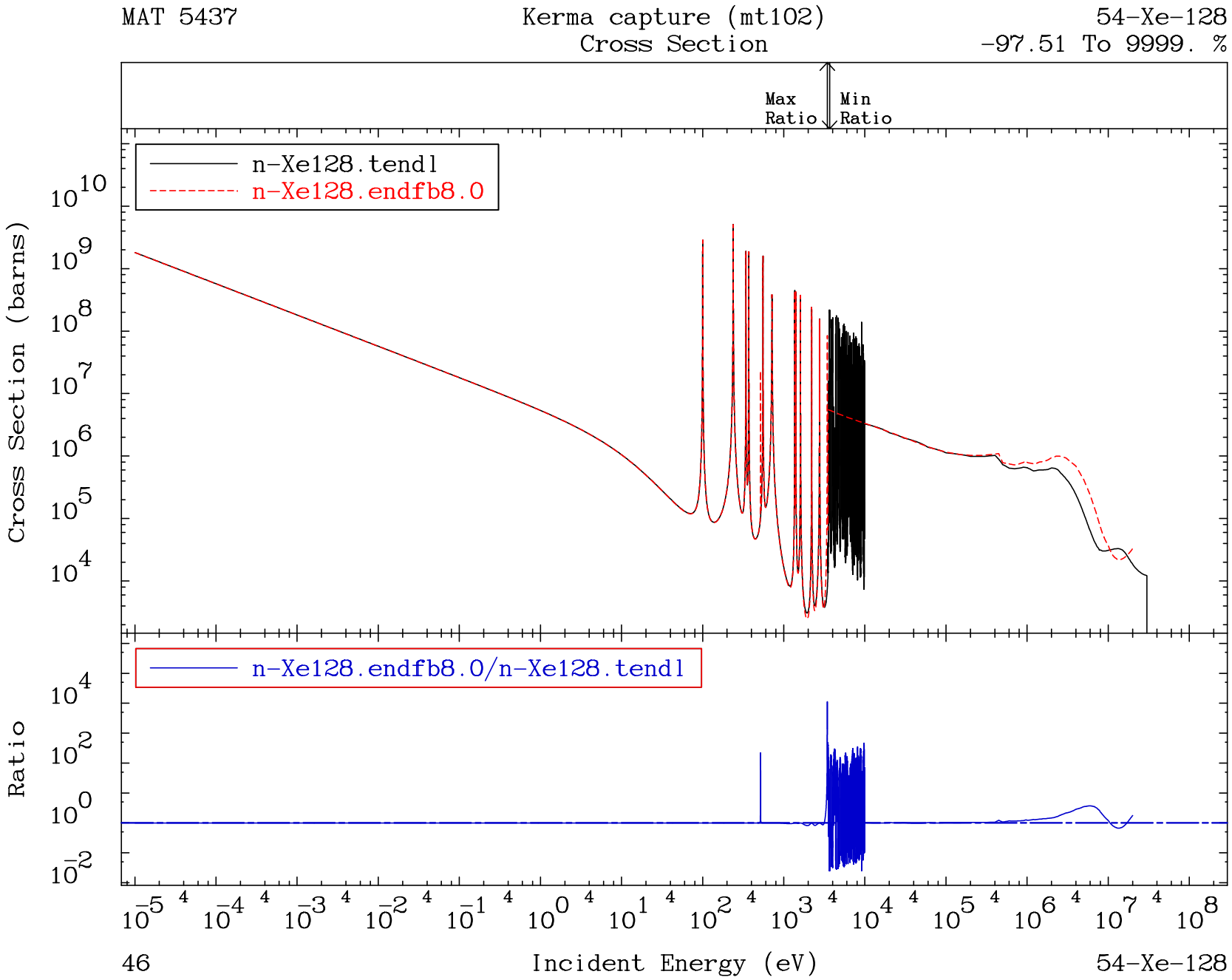

MAT 5437
Kerma total (eV-barns)
Cross Section
54-Xe-128
-97.51 To 9999. %
Max Ratio
Min Ratio
n-Xe128.tendl
n-Xe128.endfb8.0
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
41
Incident Energy (eV)
54-Xe-128

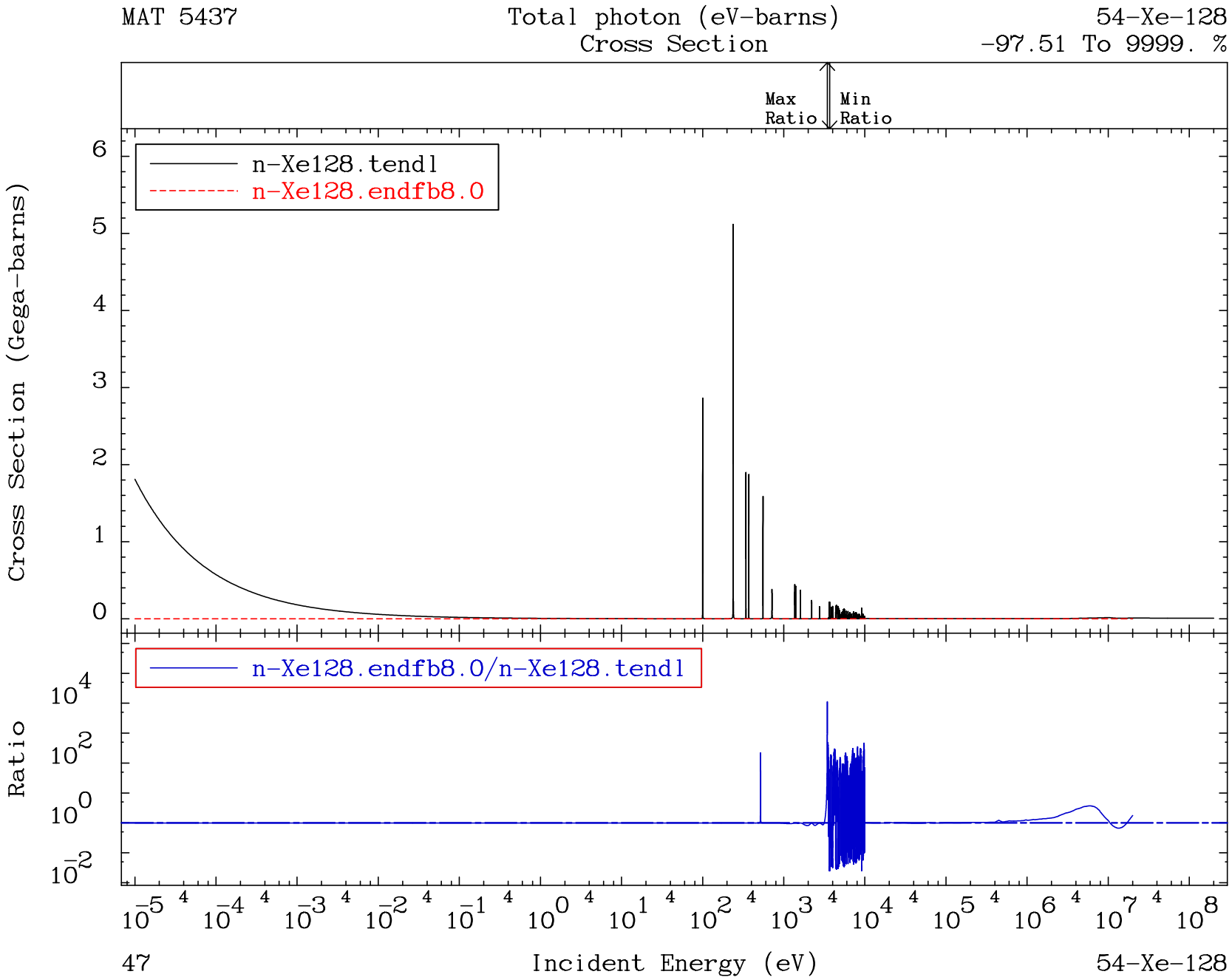

MAT 5437
Kerma elastic
Cross Section
54-Xe-128
-98.87 To 9999. %
Min Ratio
Max Ratio
n-Xe128.tendl
n-Xe128.endfb8.0
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
Incident Energy (eV)
42
54-Xe-128

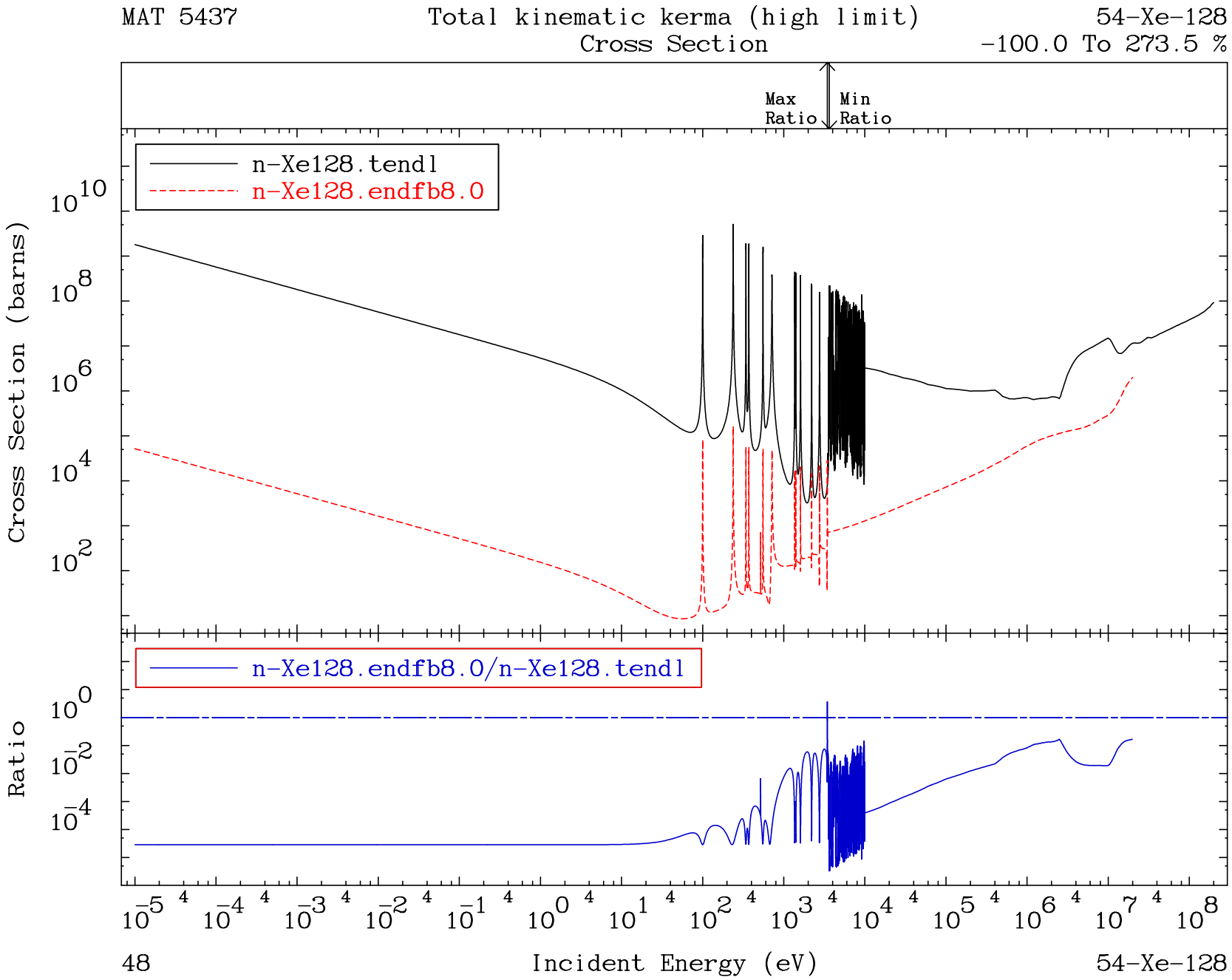

MAT 5437
Kerma non-elastic (all but mt2)
Cross Section
54-Xe-128
-97.51 To 9999. %
Max Ratio
Min Ratio
n-Xe128.tendl
n-Xe128.endfb8.0
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
Incident Energy (eV)
43
54-Xe-128

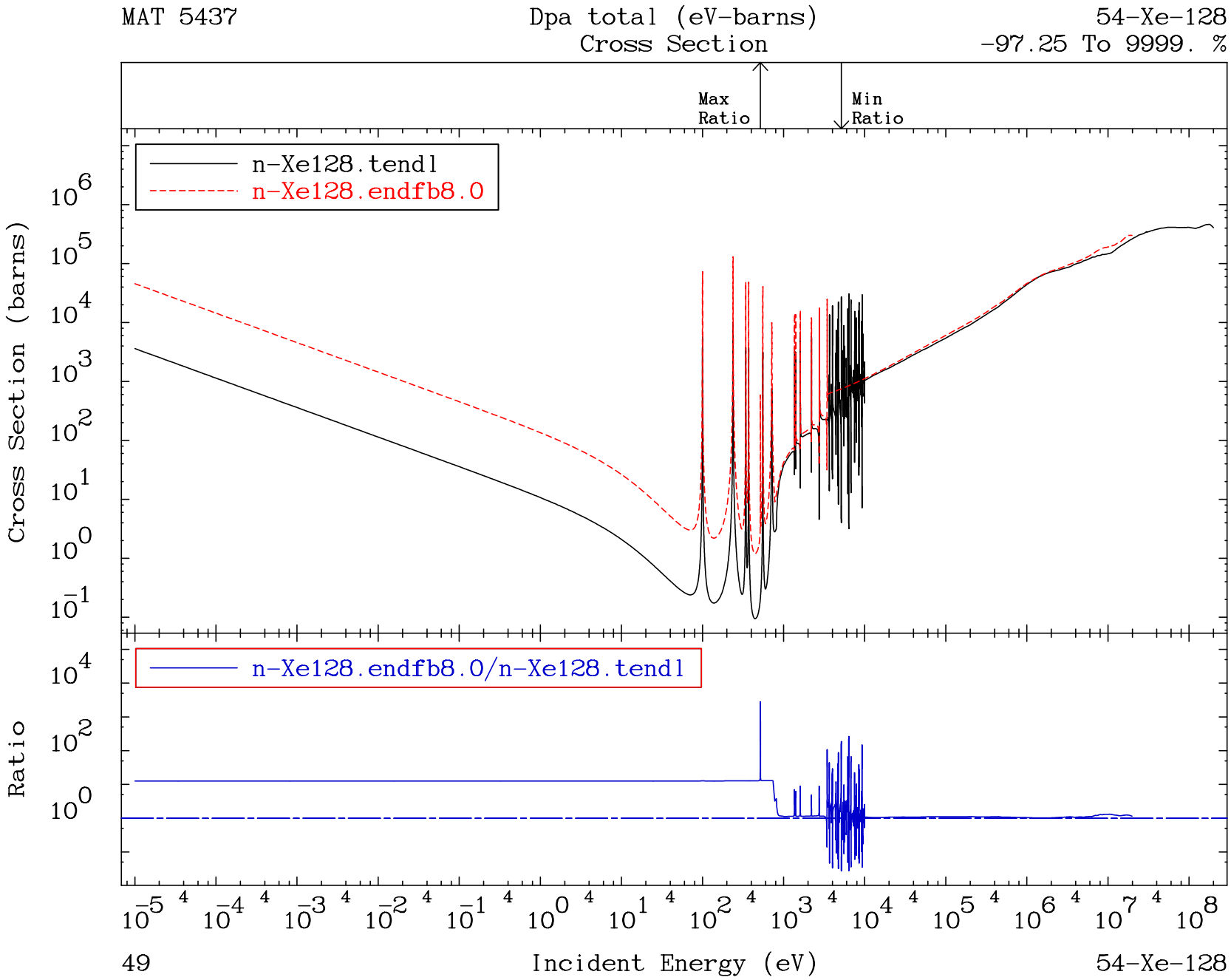

MAT 5437
Kerma inelastic (mt51-91)
Cross Section
54-Xe-128
-16.83 To 9999. %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 446.40 keV
n-Xe128.endfb8.0 Threshold 446.40 keV
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
Incident Energy (eV)
44
54-Xe-128

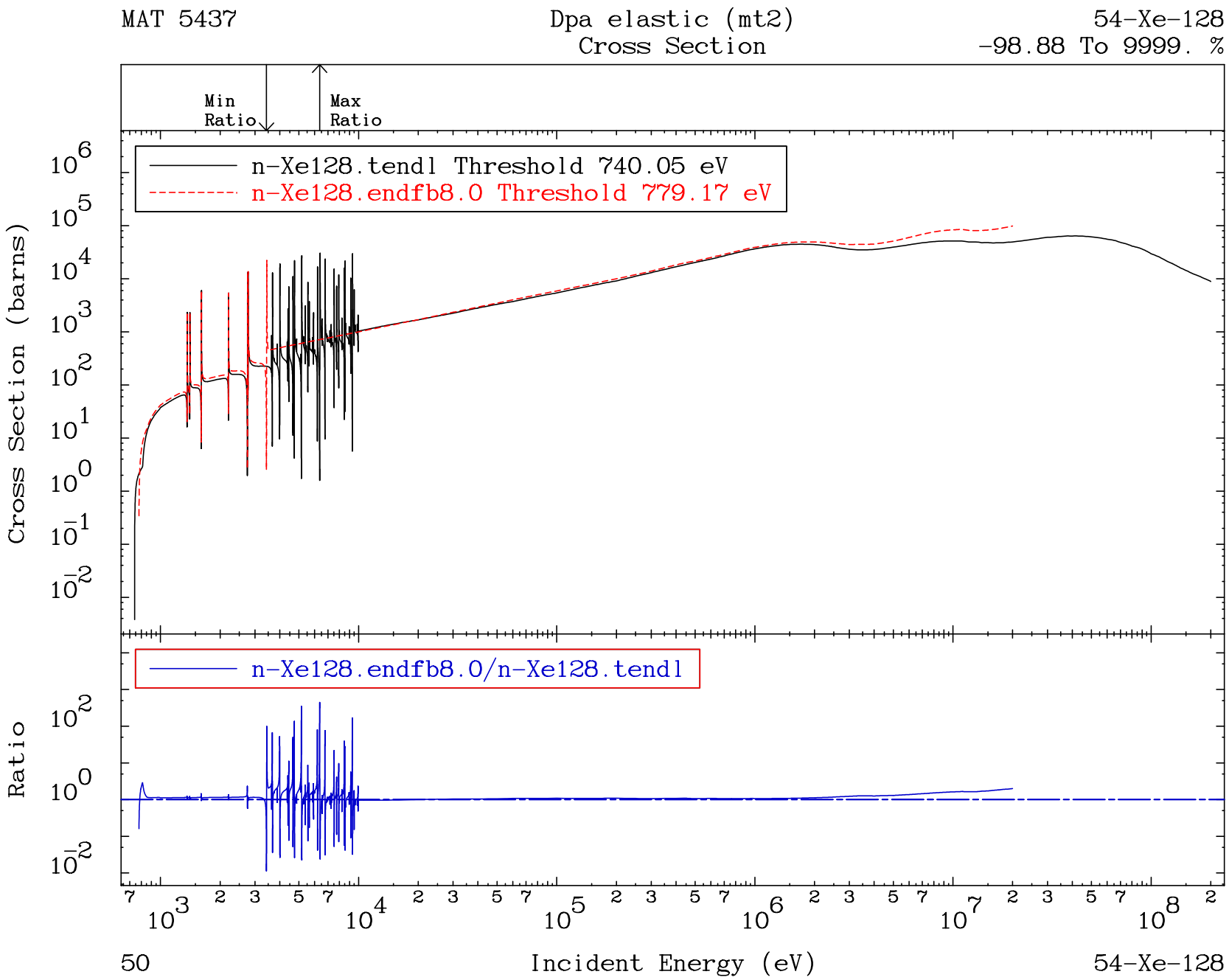

MAT 5437
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
54-Xe-128
-16.83 To 9999. %
Max Ratio
Min Ratio
n-Xe128.tendl
n-Xe128.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^9
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
45
Incident Energy (eV)
54-Xe-128

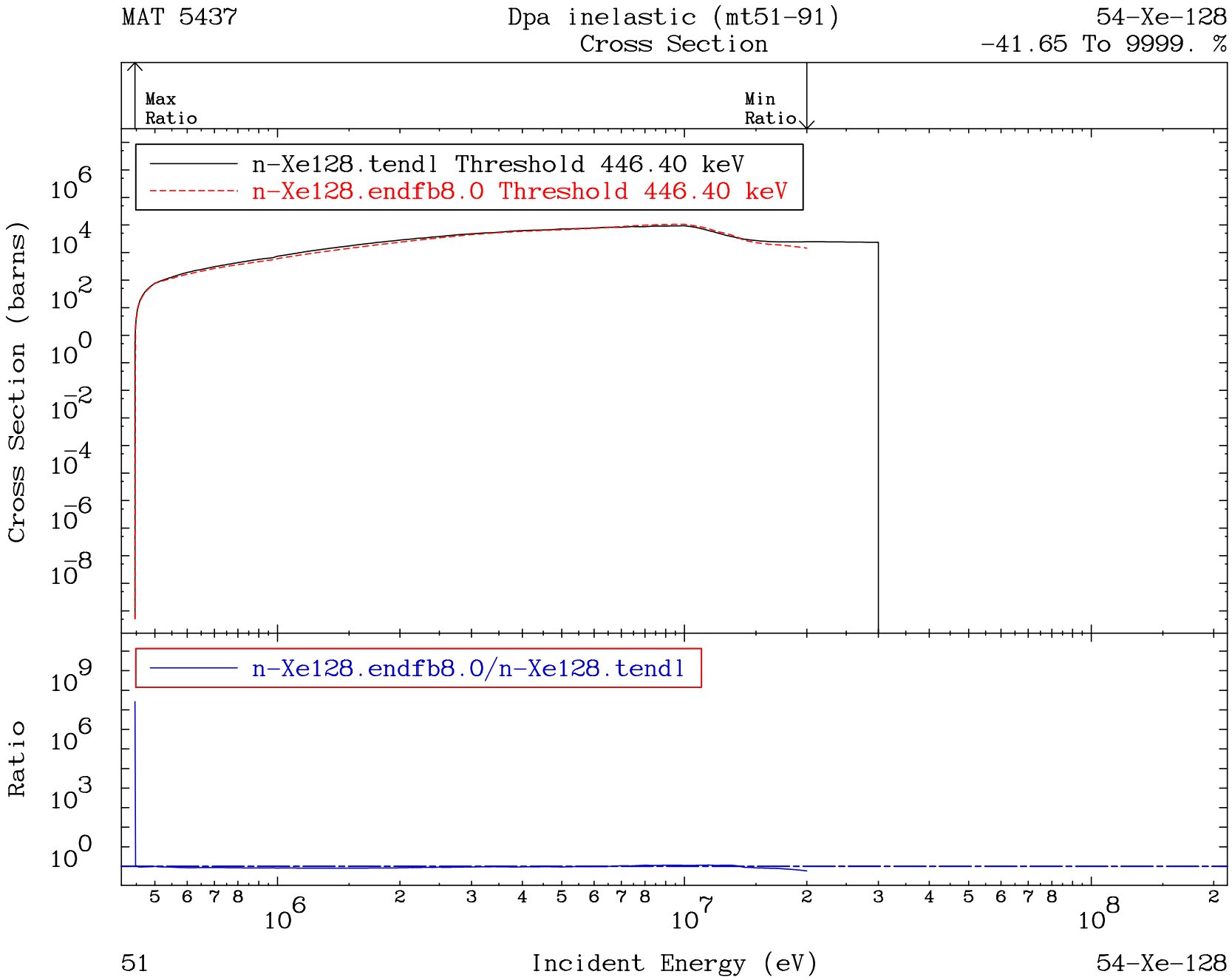

MAT 5437
Kerma capture (mt102)
Cross Section
54-Xe-128
-97.51 To 9999. %
Max Ratio
Min Ratio
n-Xe128.tendl
n-Xe128.endfb8.0
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
Incident Energy (eV)
46
54-Xe-128

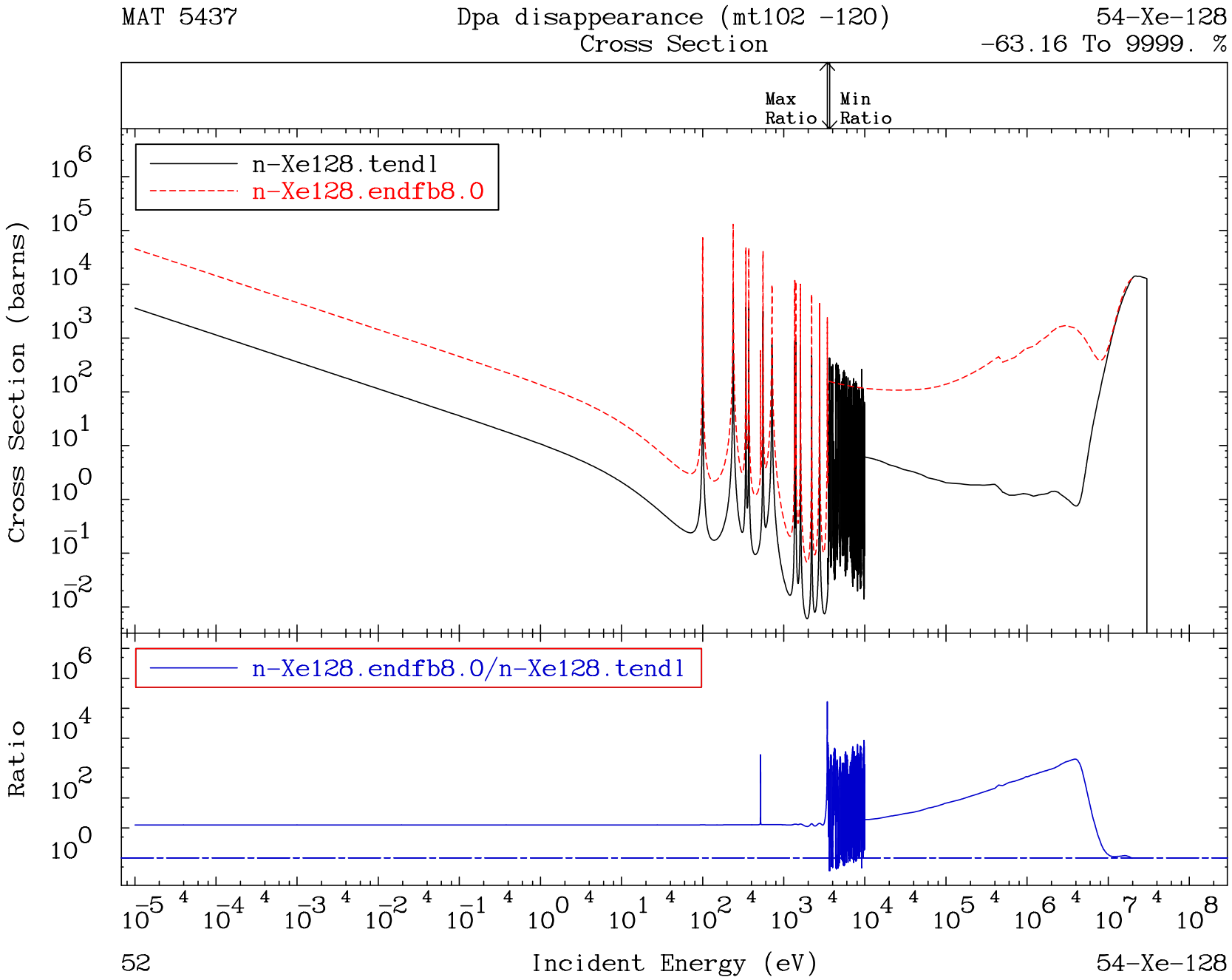

MAT 5437
Total photon (eV-barns)
Cross Section
54-Xe-128
-97.51 To 9999. %
Max Ratio
Min Ratio
n-Xe128.tendl
n-Xe128.endfb8.0
Cross Section (Giga-barns)
0
1
2
3
4
5
6
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
10^4
10^2
10^0
10^-2
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
47
Incident Energy (eV)
54-Xe-128


MAT 5437
Total kinematic kerma (high limit)
Cross Section
54-Xe-128
-100.0 To 273.5 %
Max Ratio
Min Ratio
n-Xe128.tendl
n-Xe128.endfb8.0
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
Incident Energy (eV)
48
54-Xe-128


MAT 5437
Dpa total (eV-barns)
Cross Section
54-Xe-128
-97.25 To 9999. %
Max Ratio
Min Ratio
n-Xe128.tendl
n-Xe128.endfb8.0
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
Incident Energy (eV)
49
54-Xe-128


MAT 5437
Dpa elastic (mt2)
Cross Section
54-Xe-128
-98.88 To 9999. %
Min Ratio
Max Ratio
n-Xe128.tendl Threshold 740.05 eV
n-Xe128.endfb8.0 Threshold 779.17 eV
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
Incident Energy (eV)
50
54-Xe-128


MAT 5437
Dpa inelastic (mt51-91)
Cross Section
54-Xe-128
-41.65 To 9999. %
Max Ratio
Min Ratio
n-Xe128.tendl Threshold 446.40 keV
n-Xe128.endfb8.0 Threshold 446.40 keV
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
51
Incident Energy (eV)
54-Xe-128


MAT 5437
Dpa disappearance (mt102 -120)
Cross Section
54-Xe-128
-63.16 To 9999. %
Max Ratio
Min Ratio
n-Xe128.tendl
n-Xe128.endfb8.0
Cross Section (barns)
n-Xe128.endfb8.0/n-Xe128.tendl
Ratio
52
Incident Energy (eV)
54-Xe-128