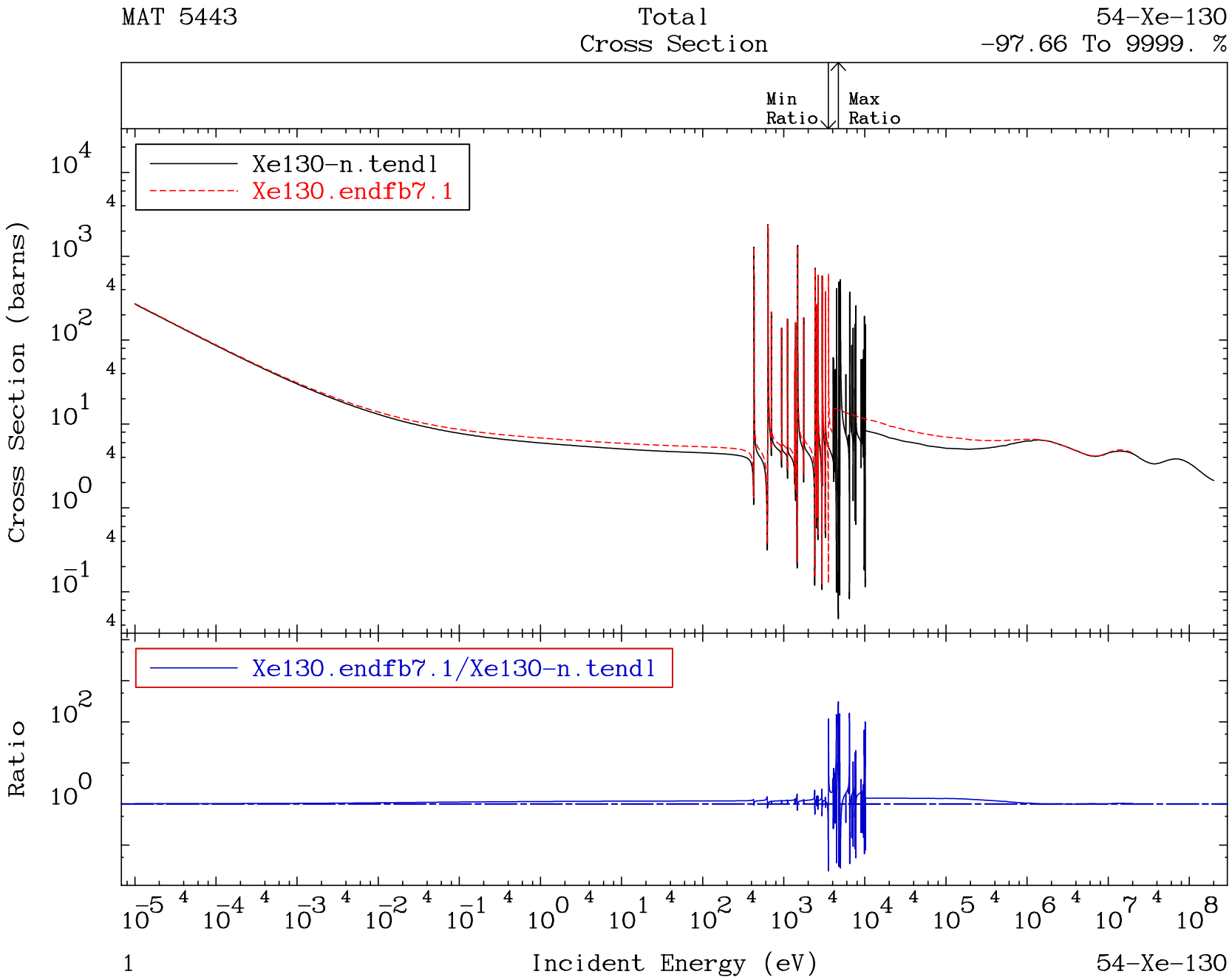
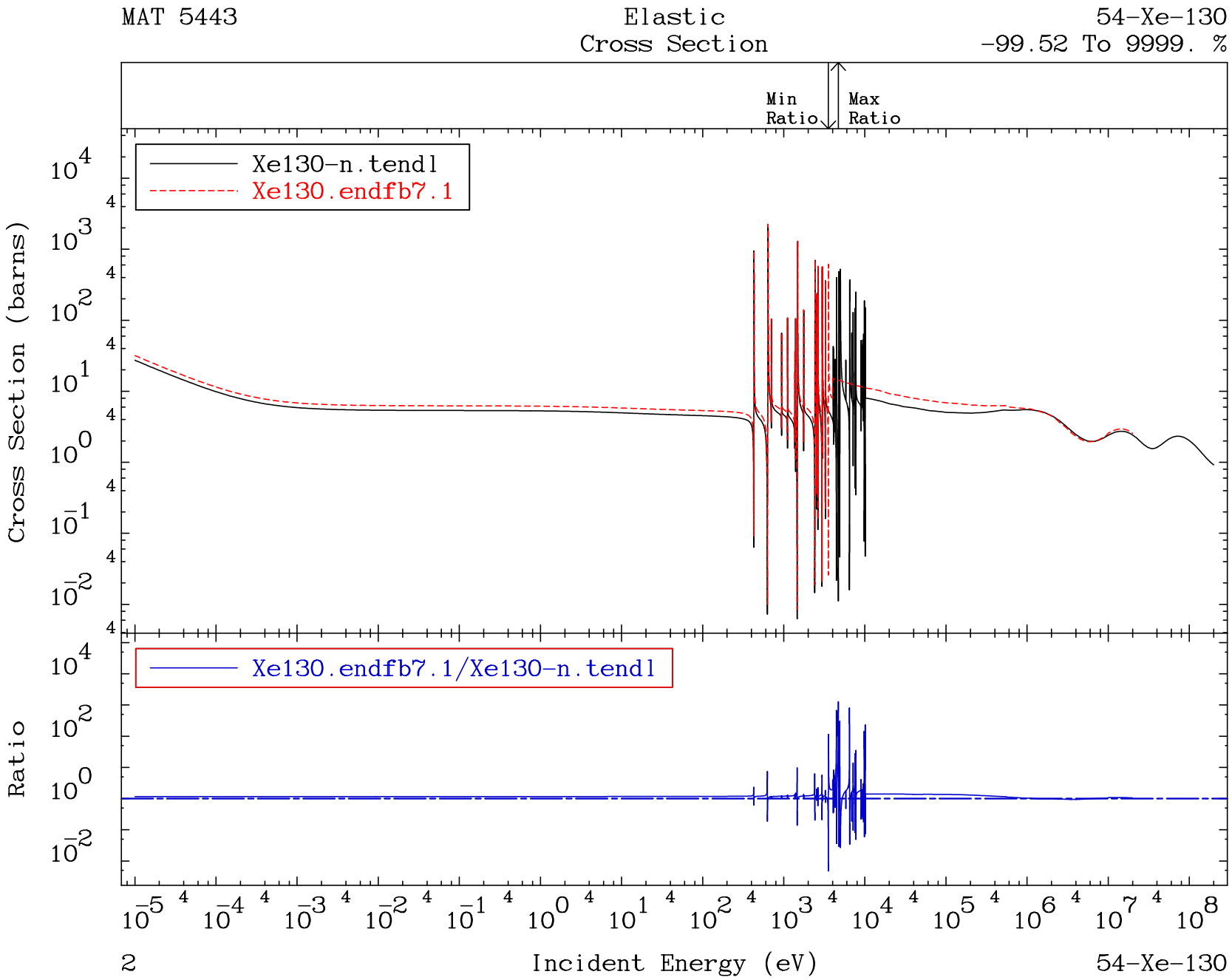
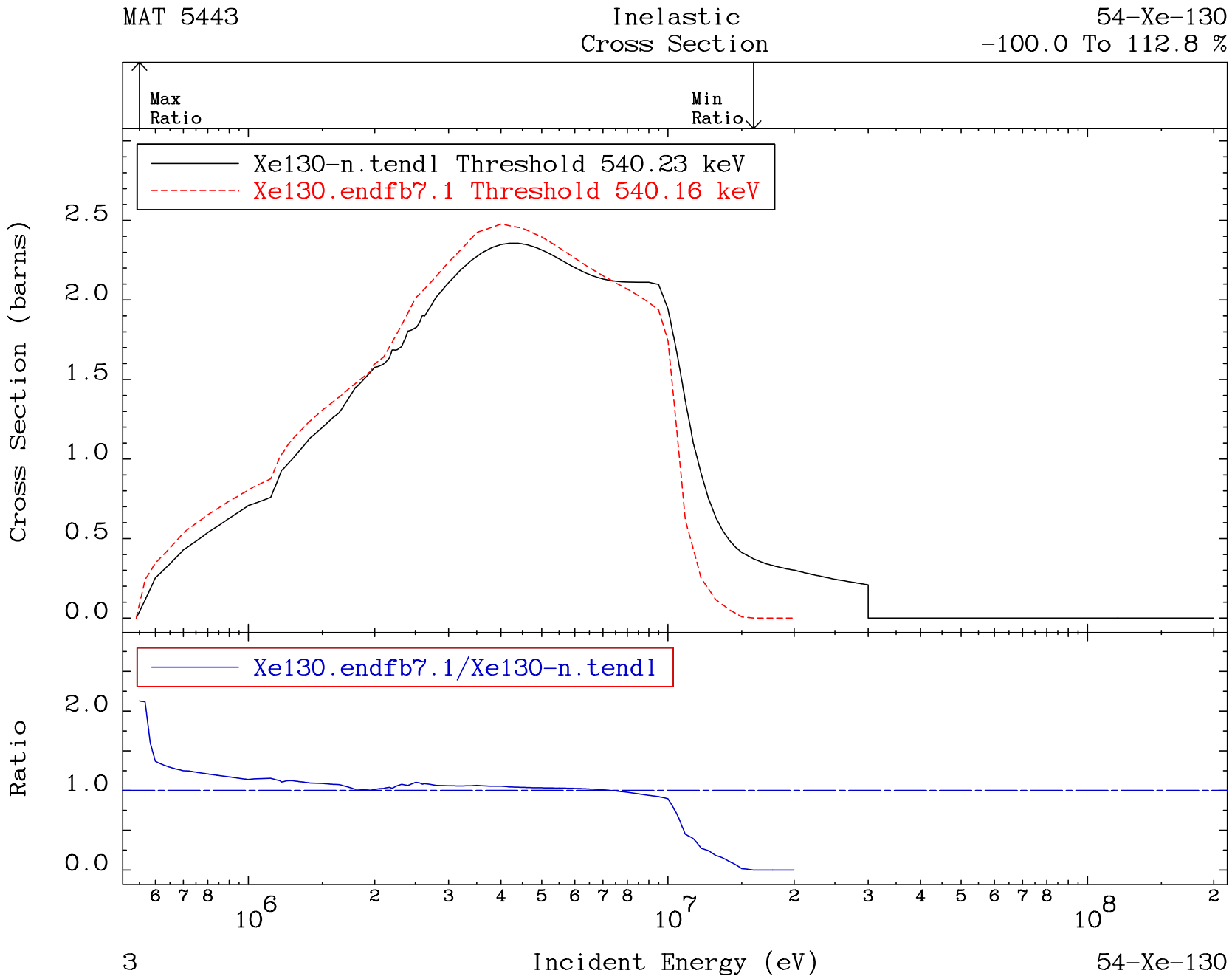
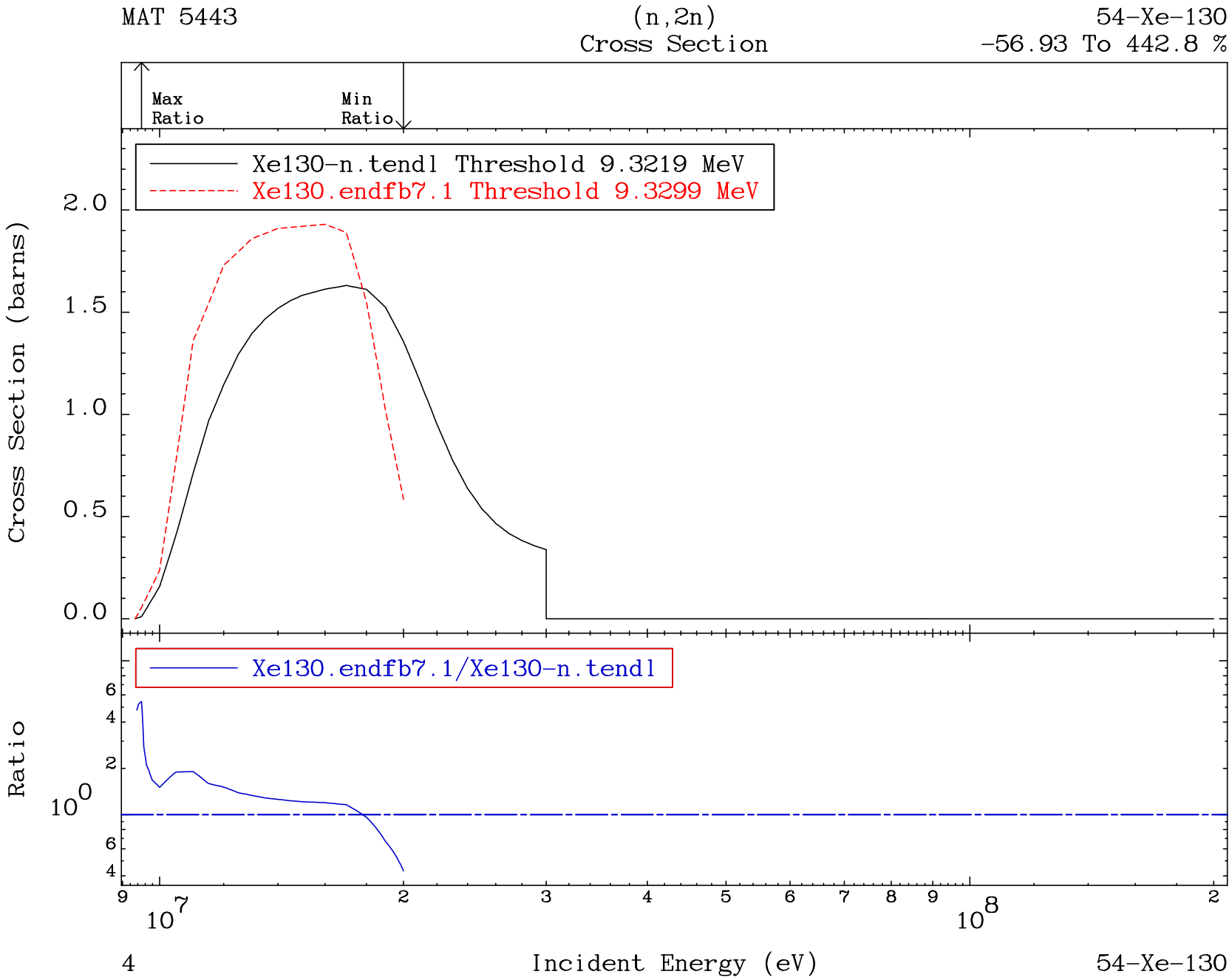
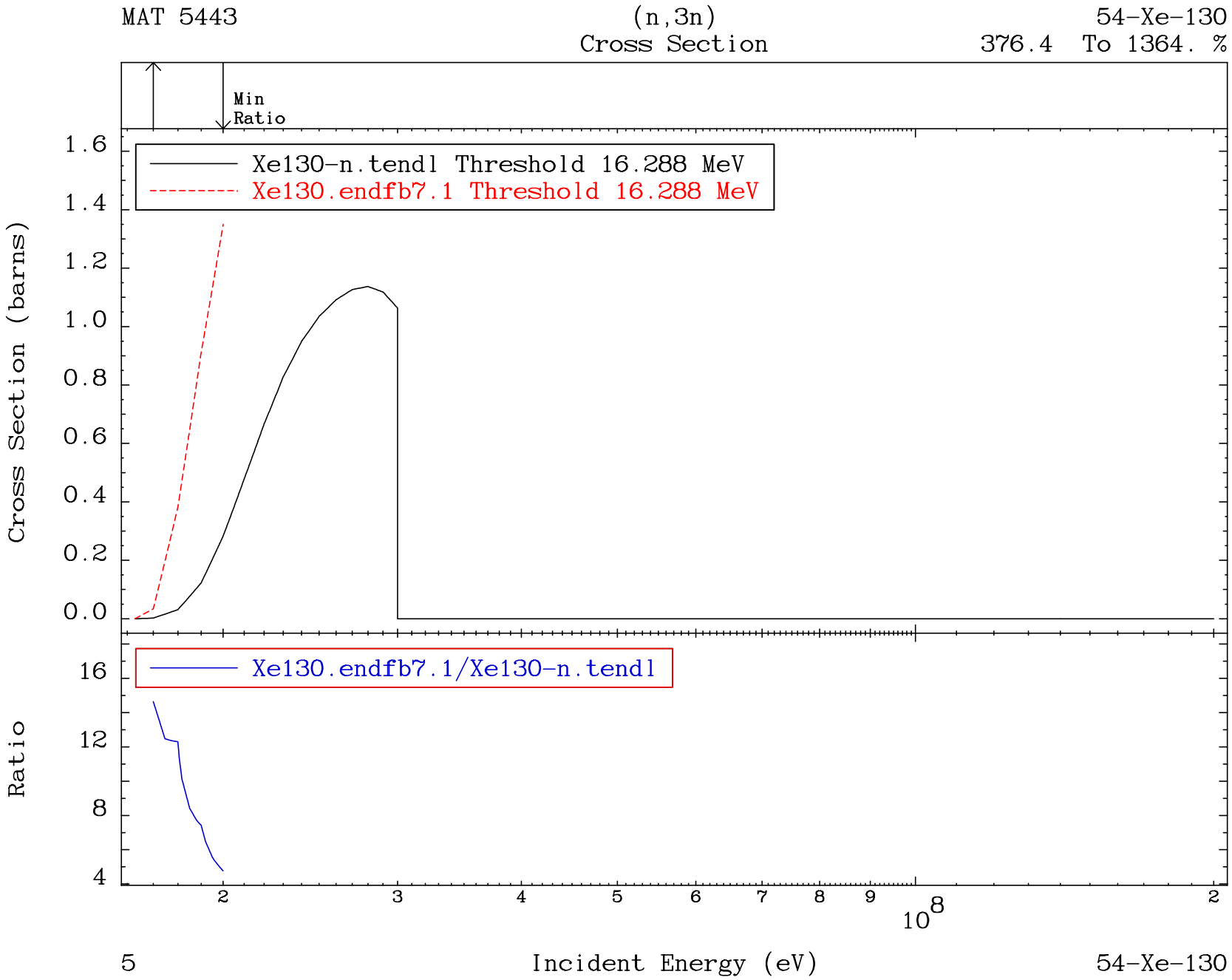
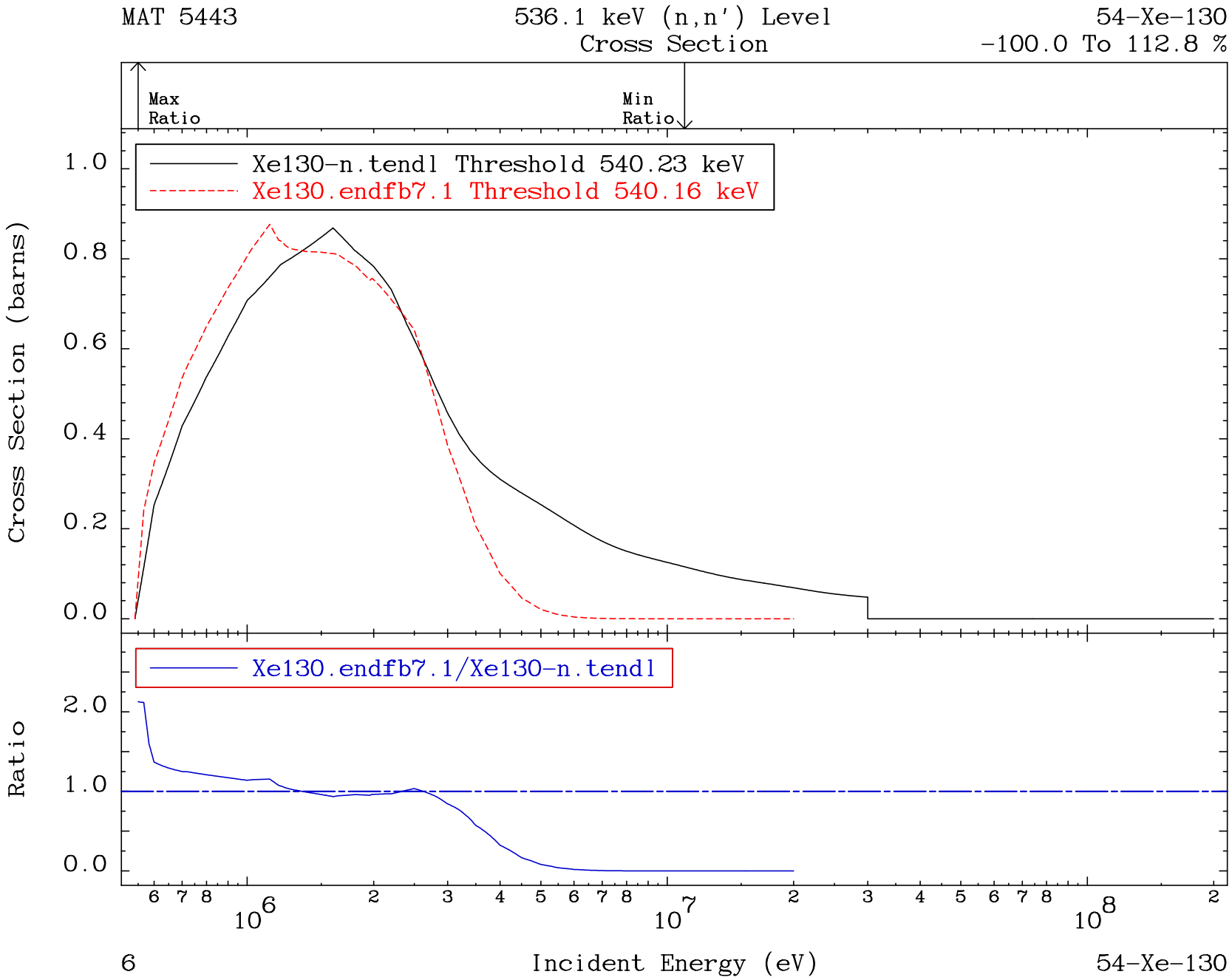

MAT 5443
Total
Cross Section
54-Xe-130
-97.66 To 9999. %
Min Ratio
Max Ratio
Xe130-n.tendl
Xe130.endfb7.1
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
1
54-Xe-130

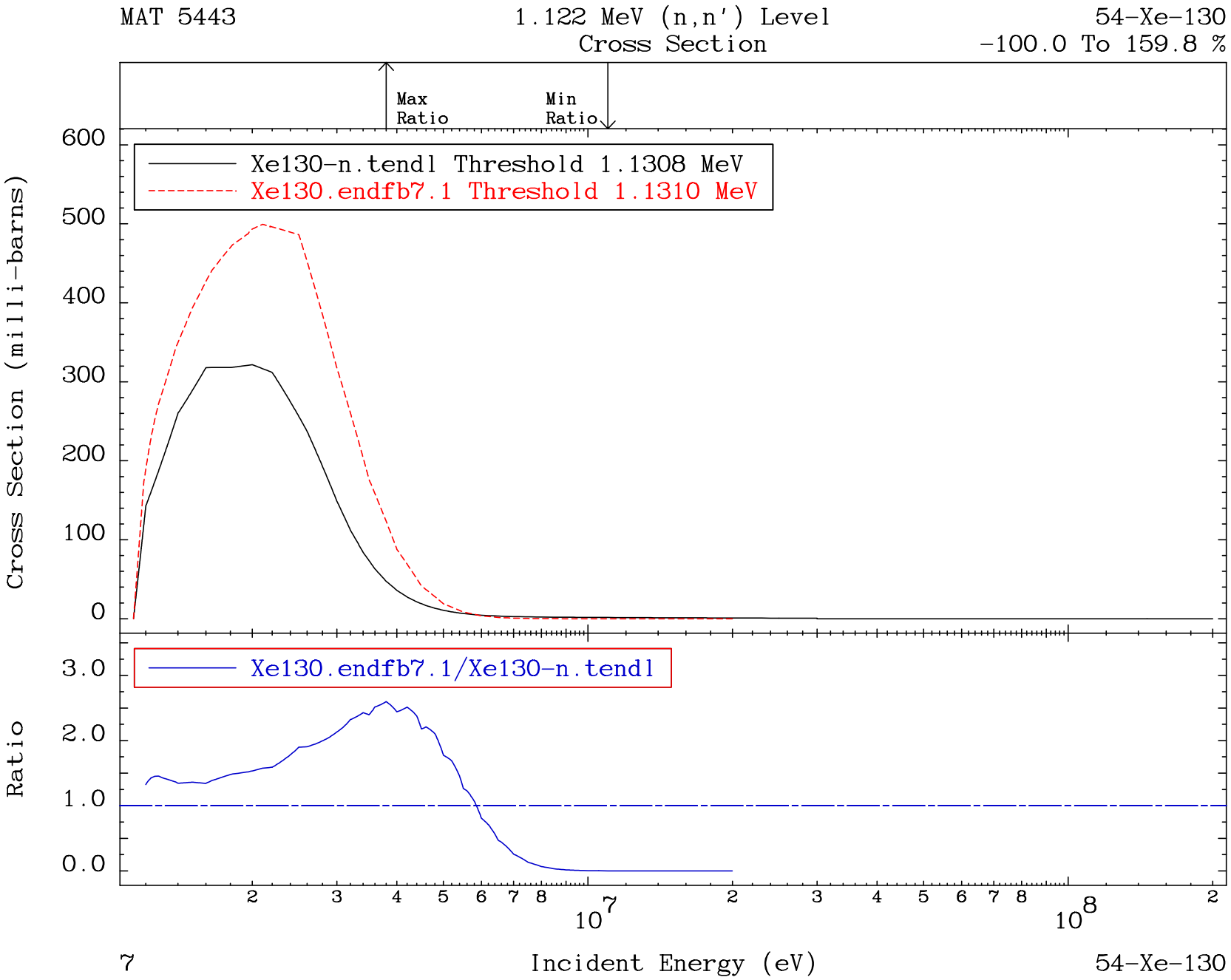

MAT 5443
Elastic
Cross Section
54-Xe-130
-99.52 To 9999. %
Min Ratio
Max Ratio
Xe130-n.tendl
Xe130.endfb7.1
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
2
54-Xe-130

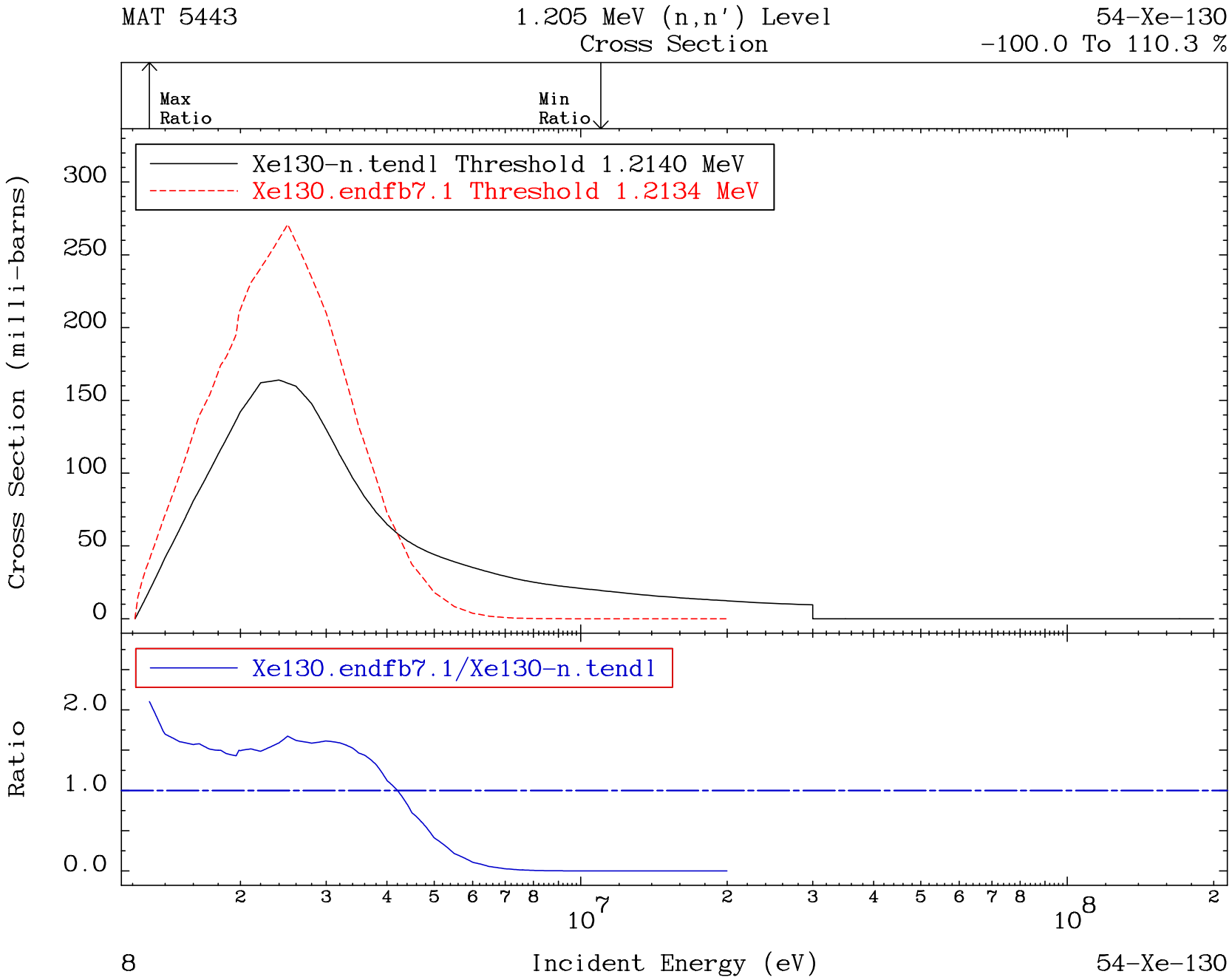

MAT 5443
Inelastic
Cross Section
54-Xe-130
-100.0 To 112.8 %
Max
Ratio
Min
Ratio
Xe130-n.tendl Threshold 540.23 keV
Xe130.endfb7.1 Threshold 540.16 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
2.0
1.0
0.0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
54-Xe-130

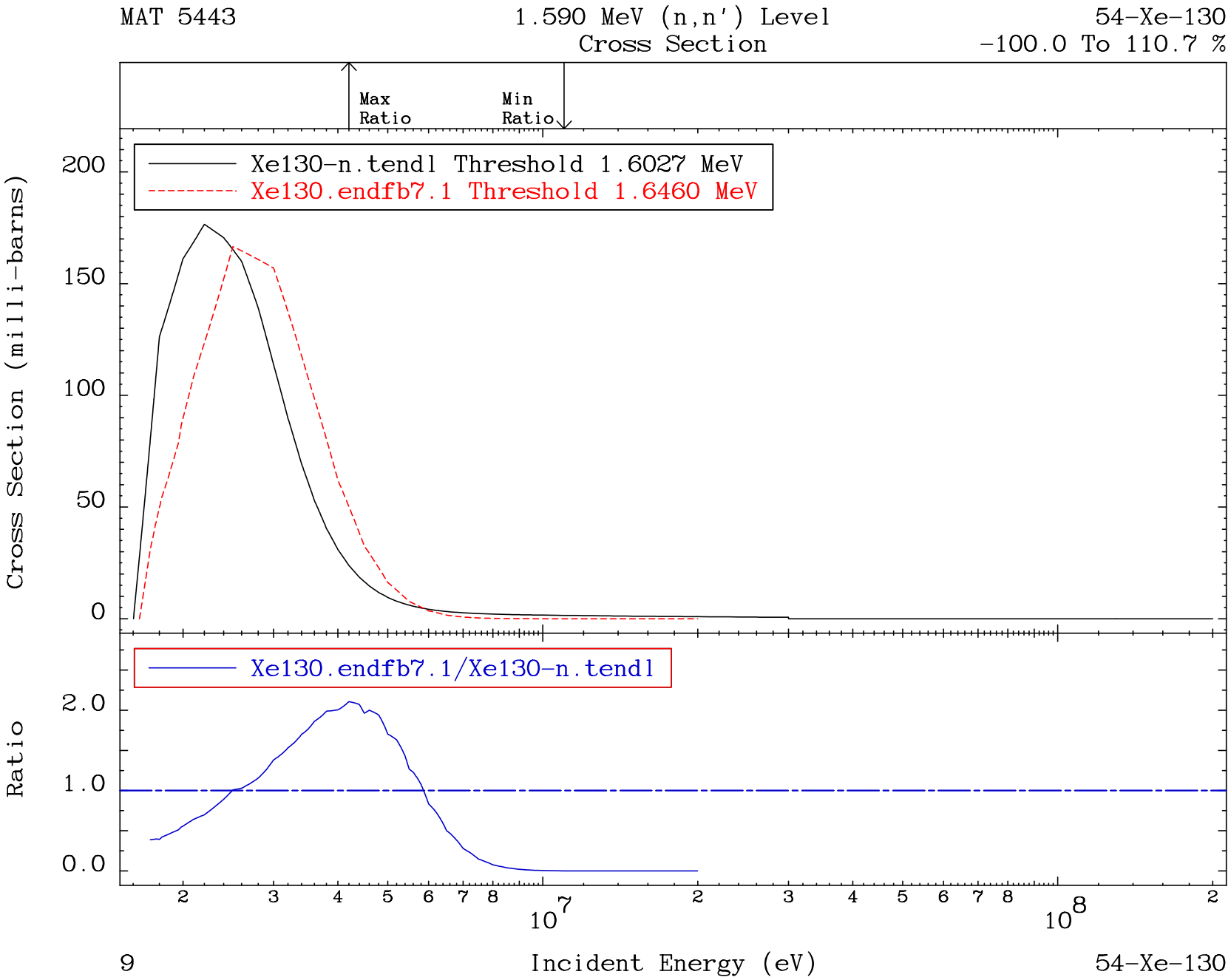

MAT 5443
(n,2n)
Cross Section
54-Xe-130
-56.93 To 442.8 %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 9.3219 MeV
Xe130.endfb7.1 Threshold 9.3299 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
6
4
2
10^0
6
4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
54-Xe-130

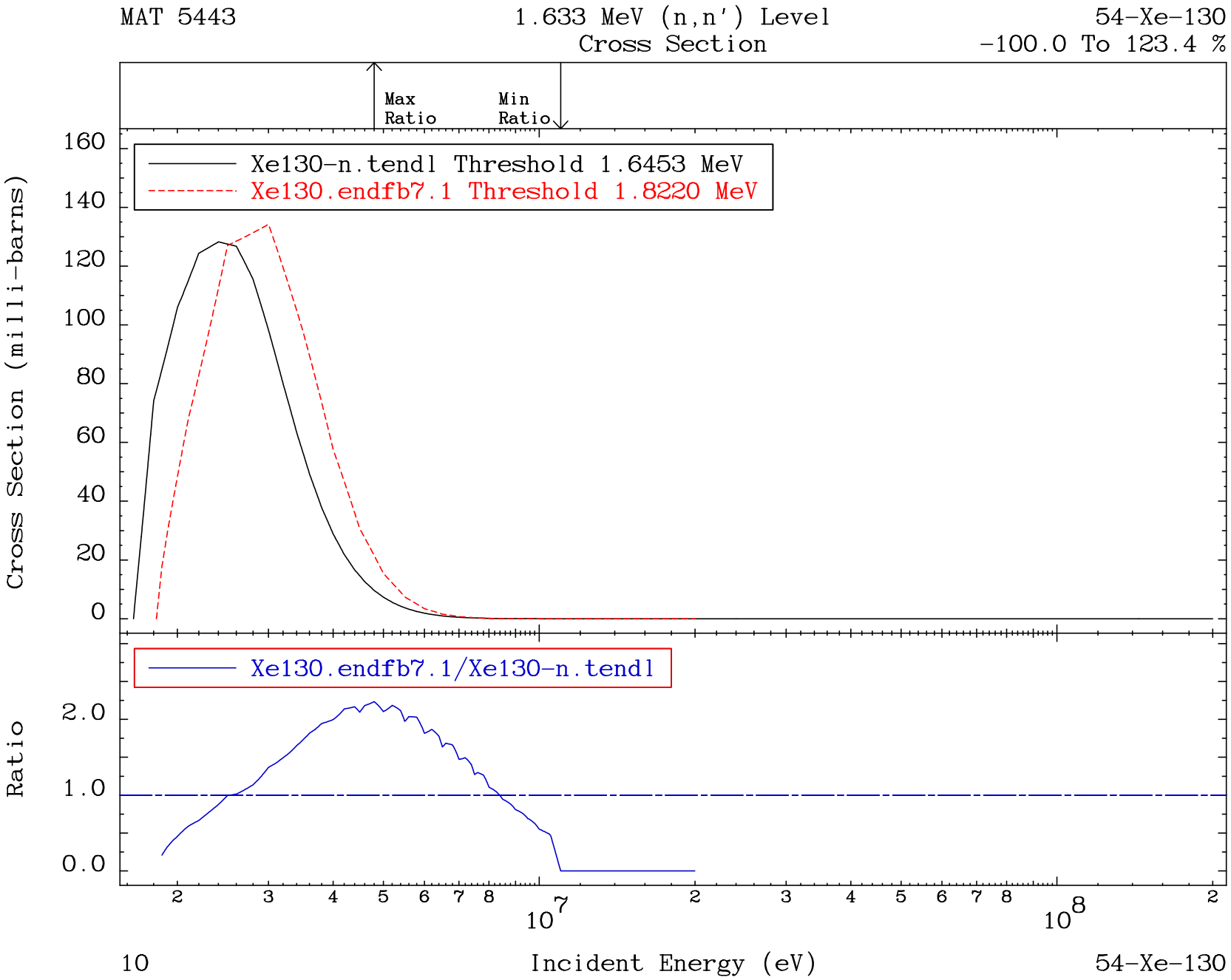

MAT 5443
(n,3n)
Cross Section
54-Xe-130
376.4 To 1364. %
Min
Ratio
Xe130-n.tendl Threshold 16.288 MeV
Xe130.endfb7.1 Threshold 16.288 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
16
12
8
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
54-Xe-130

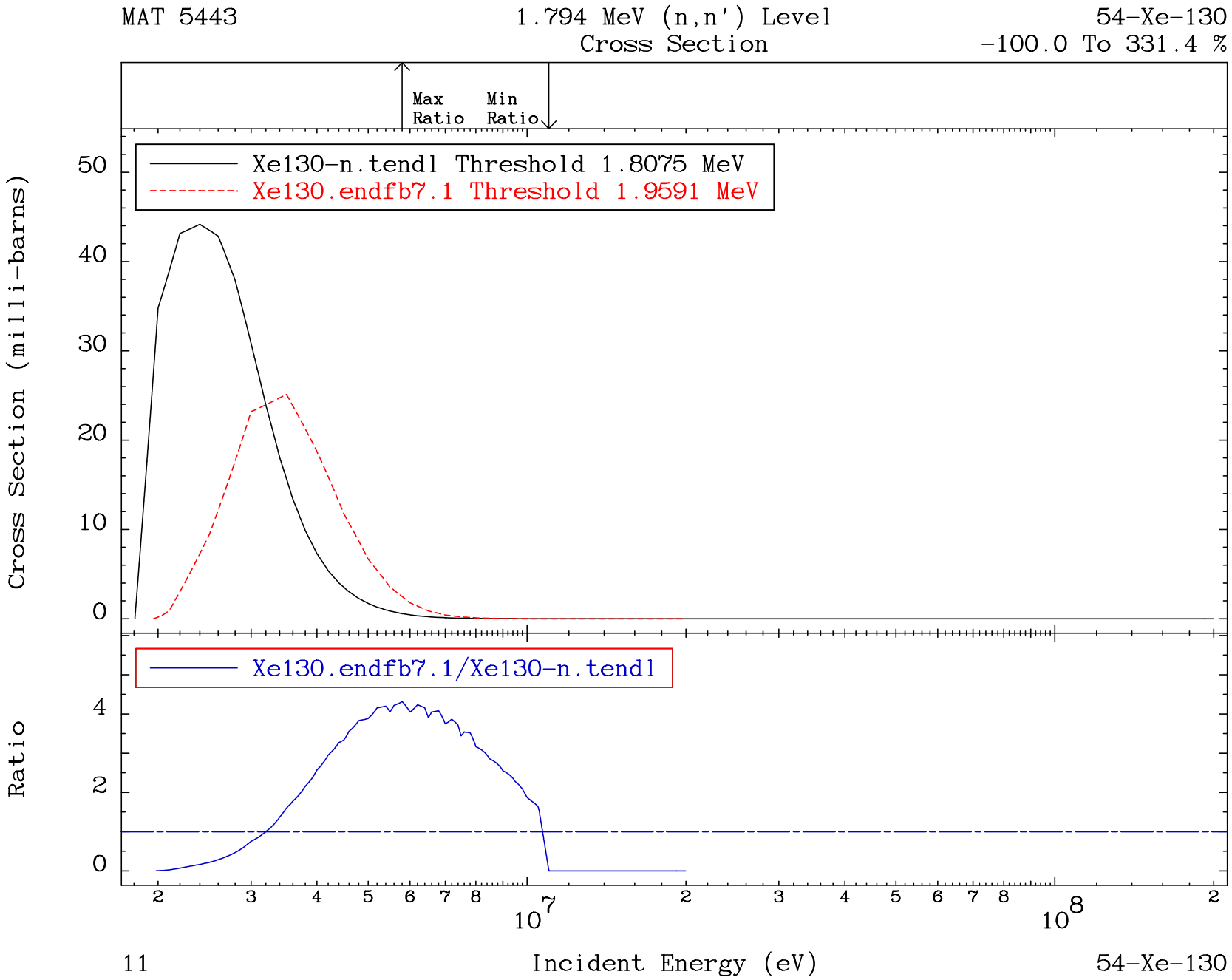

MAT 5443
536.1 keV (n,n') Level
Cross Section
54-Xe-130
-100.0 To 112.8 %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 540.23 keV
Xe130.endfb7.1 Threshold 540.16 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
2.0
1.0
0.0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
6
Incident Energy (eV)
54-Xe-130

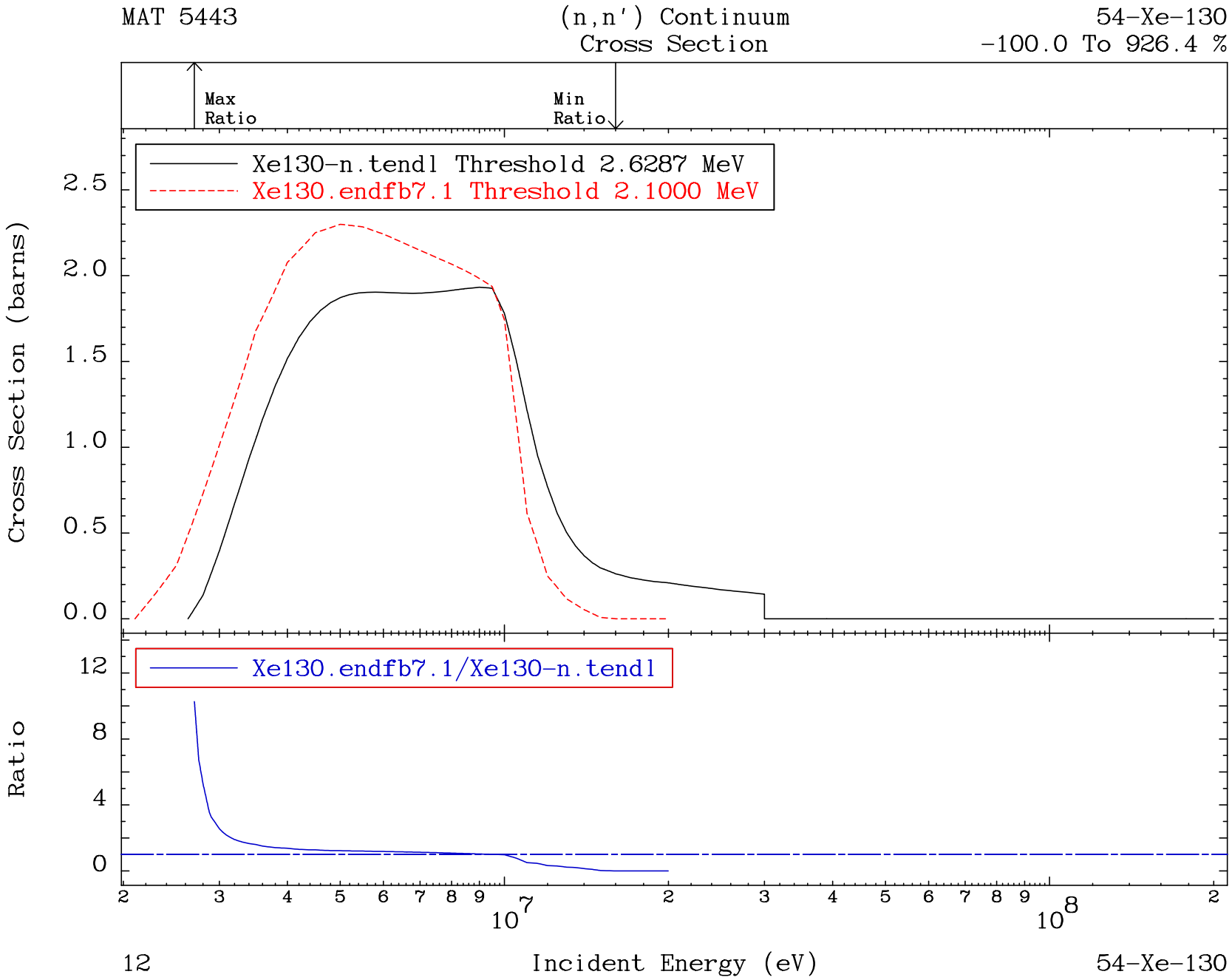

MAT 5443
1.122 MeV (n,n') Level
Cross Section
54-Xe-130
-100.0 To 159.8 %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 1.1308 MeV
Xe130.endfb7.1 Threshold 1.1310 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
3.0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
54-Xe-130

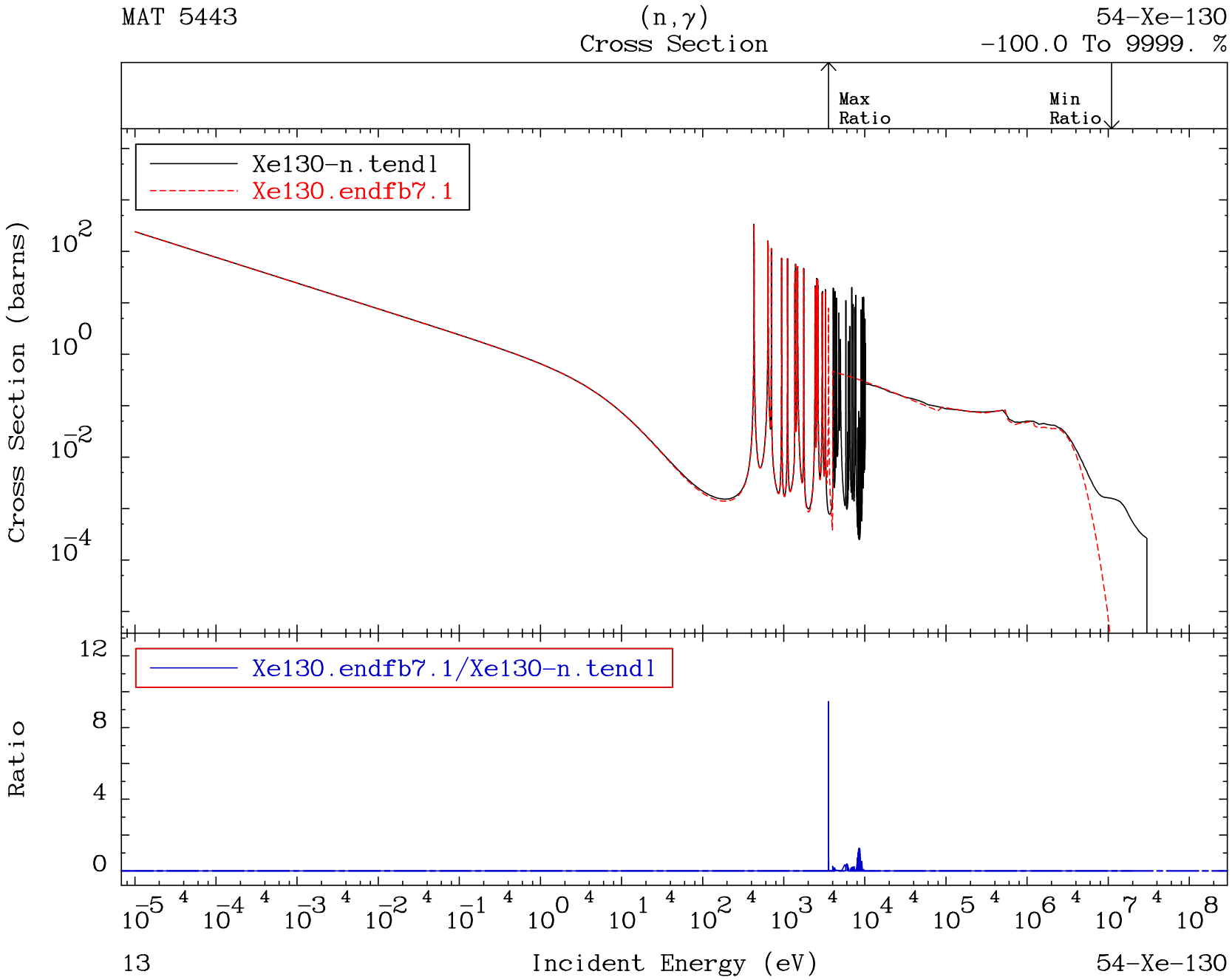

MAT 5443
1.205 MeV (n,n') Level
Cross Section
54-Xe-130
-100.0 To 110.3 %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 1.2140 MeV
Xe130.endfb7.1 Threshold 1.2134 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
54-Xe-130

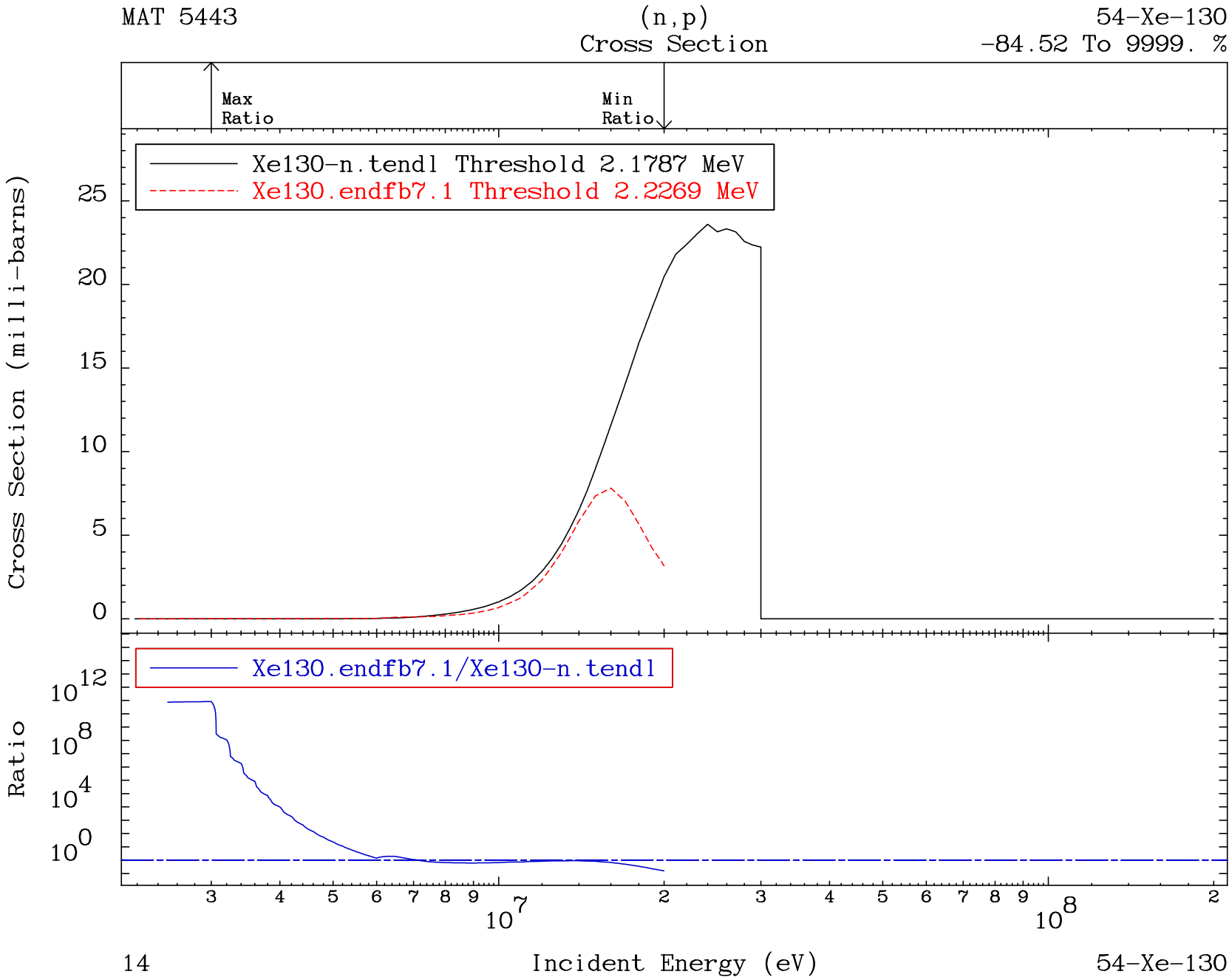

MAT 5443
1.590 MeV (n,n') Level
Cross Section
54-Xe-130
-100.0 To 110.7 %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 1.6027 MeV
Xe130.endfb7.1 Threshold 1.6460 MeV
Cross Section (milli-barns)
200
150
100
50
0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
2.0
1.0
0.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
54-Xe-130

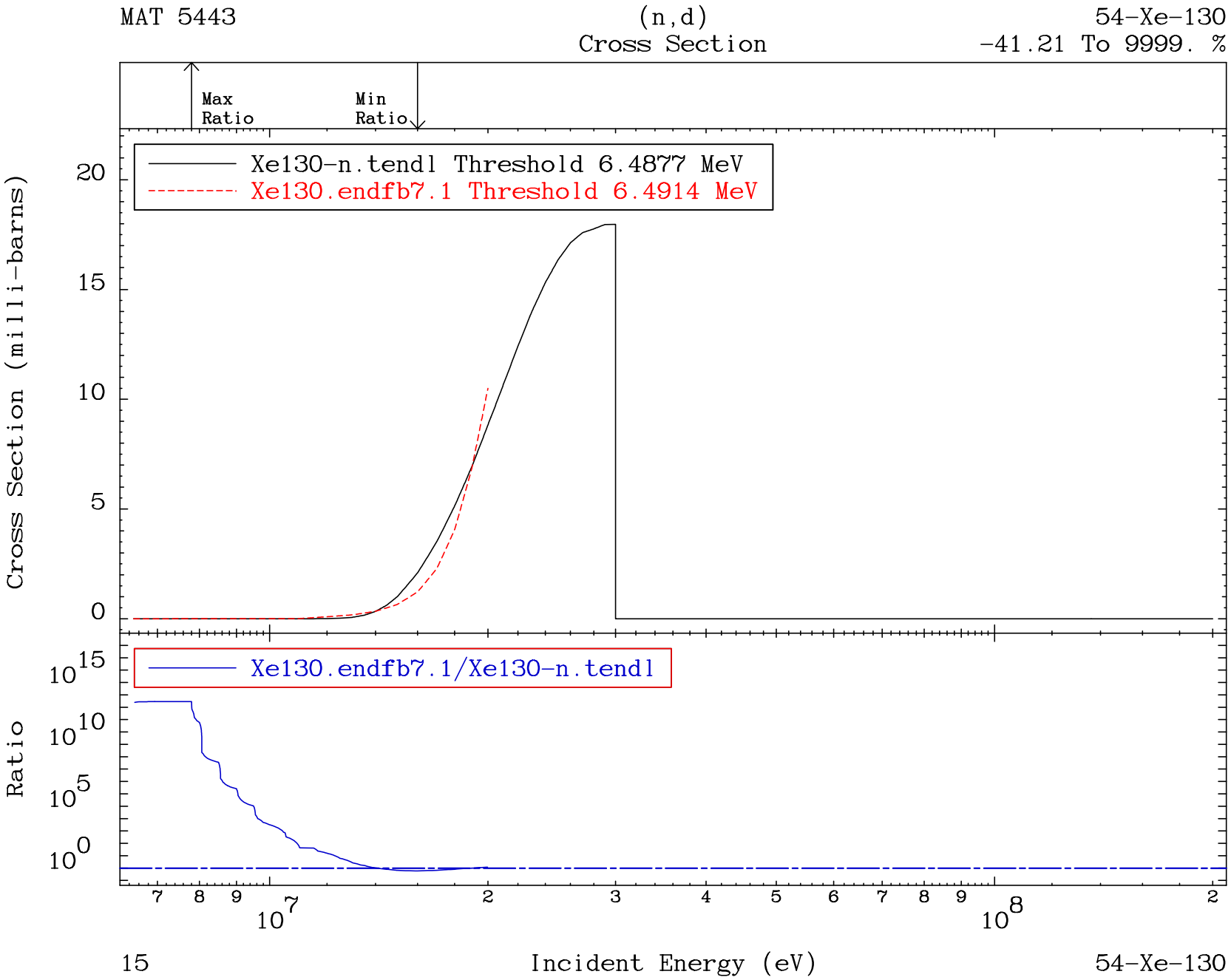

MAT 5443
1.633 MeV (n,n') Level
Cross Section
54-Xe-130
-100.0 To 123.4 %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 1.6453 MeV
Xe130.endfb7.1 Threshold 1.8220 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
2.0
1.0
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
54-Xe-130

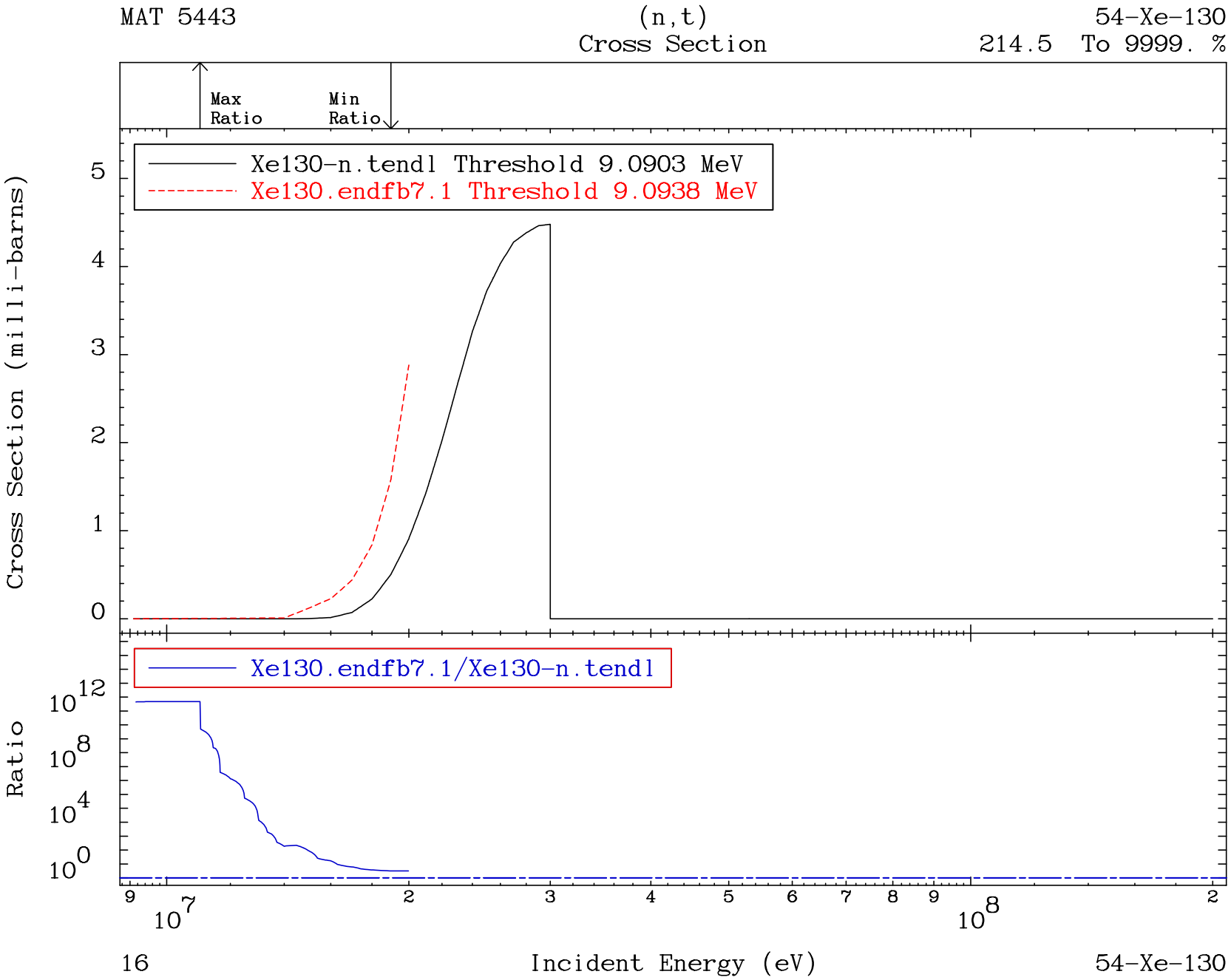

MAT 5443
1.794 MeV (n,n') Level
Cross Section
54-Xe-130
-100.0 To 331.4 %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 1.8075 MeV
Xe130.endfb7.1 Threshold 1.9591 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
4
2
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
54-Xe-130

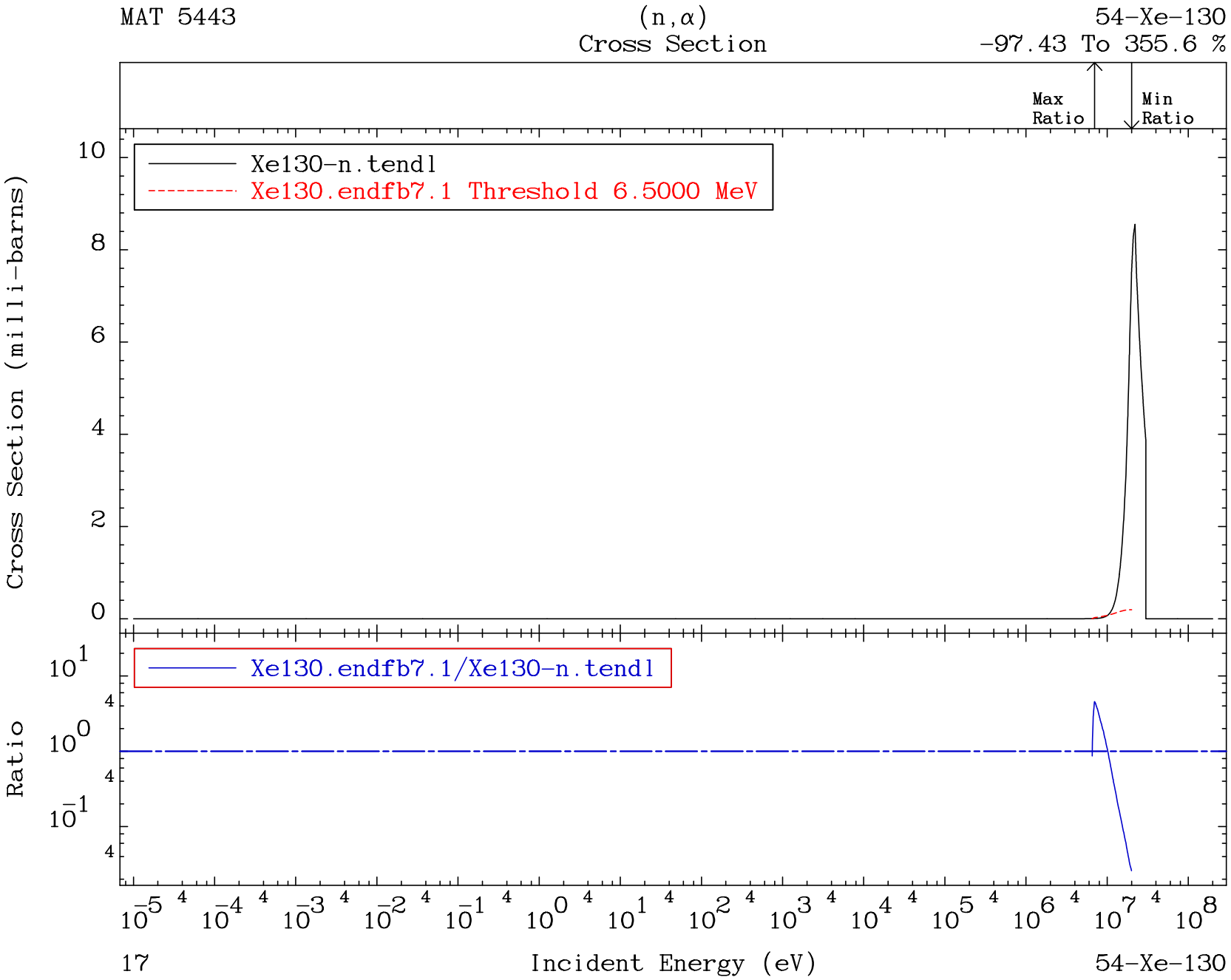

MAT 5443
(n,n') Continuum
Cross Section
54-Xe-130
-100.0 To 926.4 %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 2.6287 MeV
Xe130.endfb7.1 Threshold 2.1000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
12
8
4
0
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
54-Xe-130

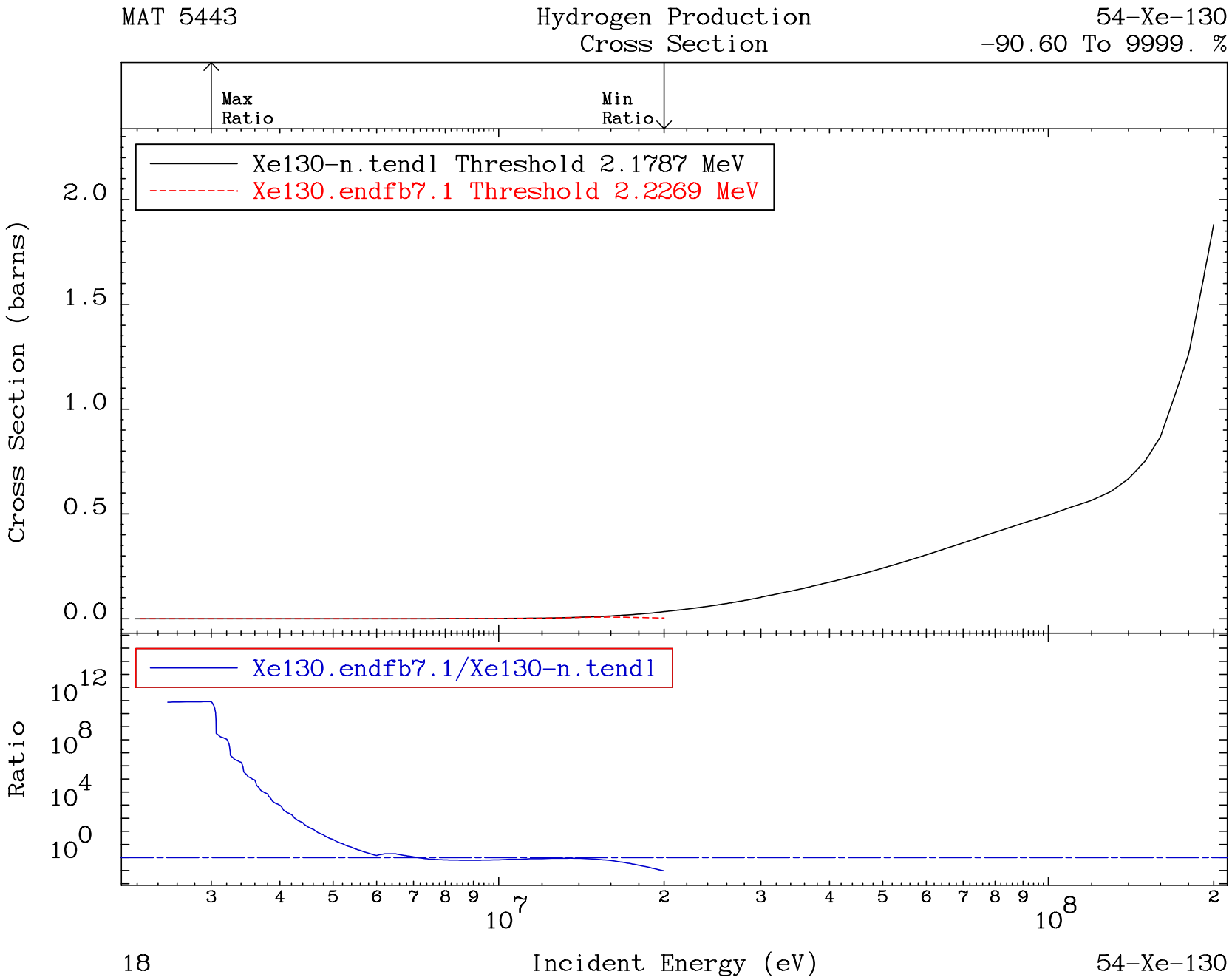

MAT 5443
(n,γ)
Cross Section
54-Xe-130
-100.0 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl
Xe130.endfb7.1
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
13
54-Xe-130

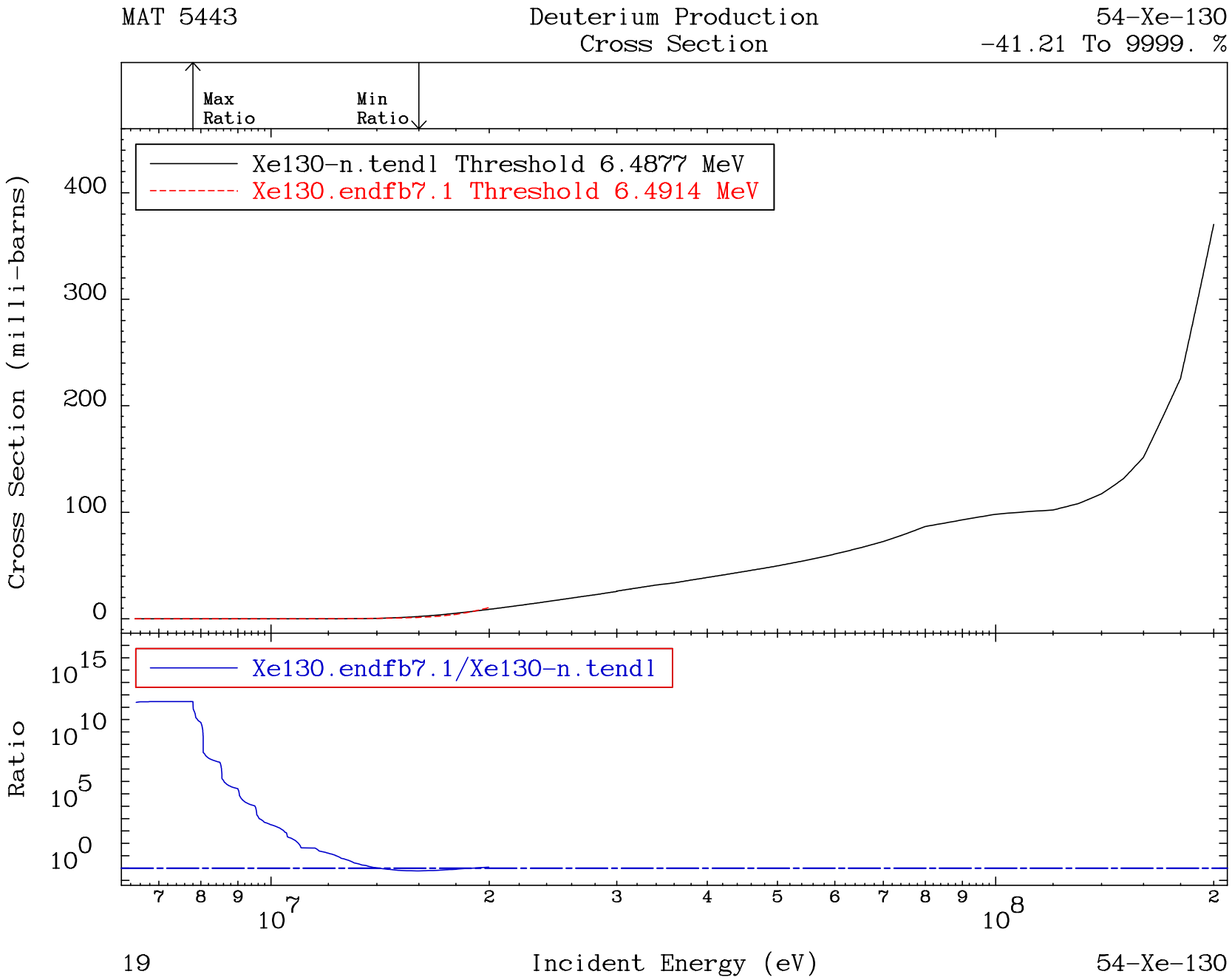

MAT 5443
(n,p)
Cross Section
54-Xe-130
-84.52 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 2.1787 MeV
Xe130.endfb7.1 Threshold 2.2269 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
10^12
10^8
10^4
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
54-Xe-130

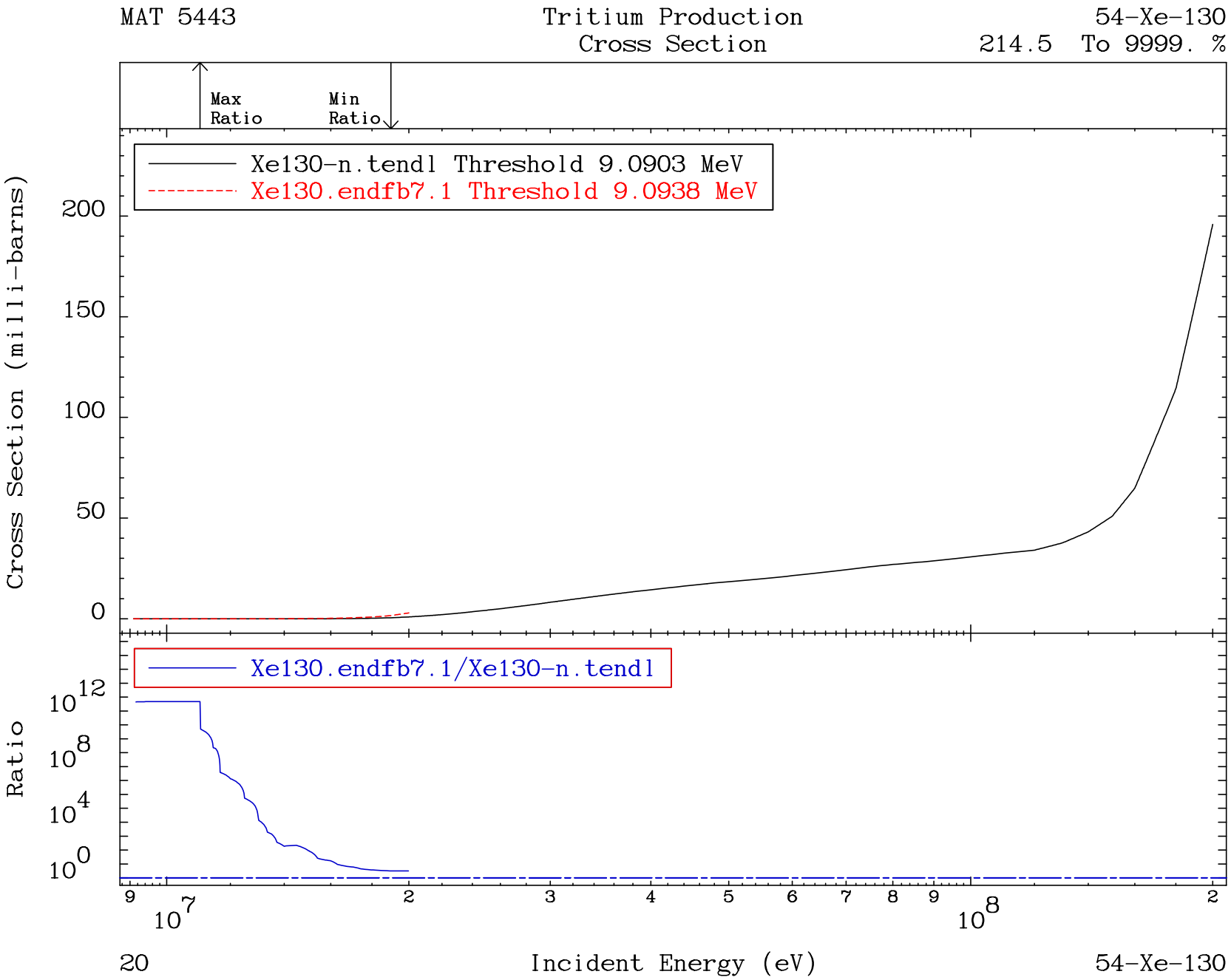

MAT 5443
(n,d)
Cross Section
54-Xe-130
-41.21 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 6.4877 MeV
Xe130.endfb7.1 Threshold 6.4914 MeV
Cross Section (milli-barns)
20
15
10
5
0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
10^15
10^10
10^5
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
54-Xe-130

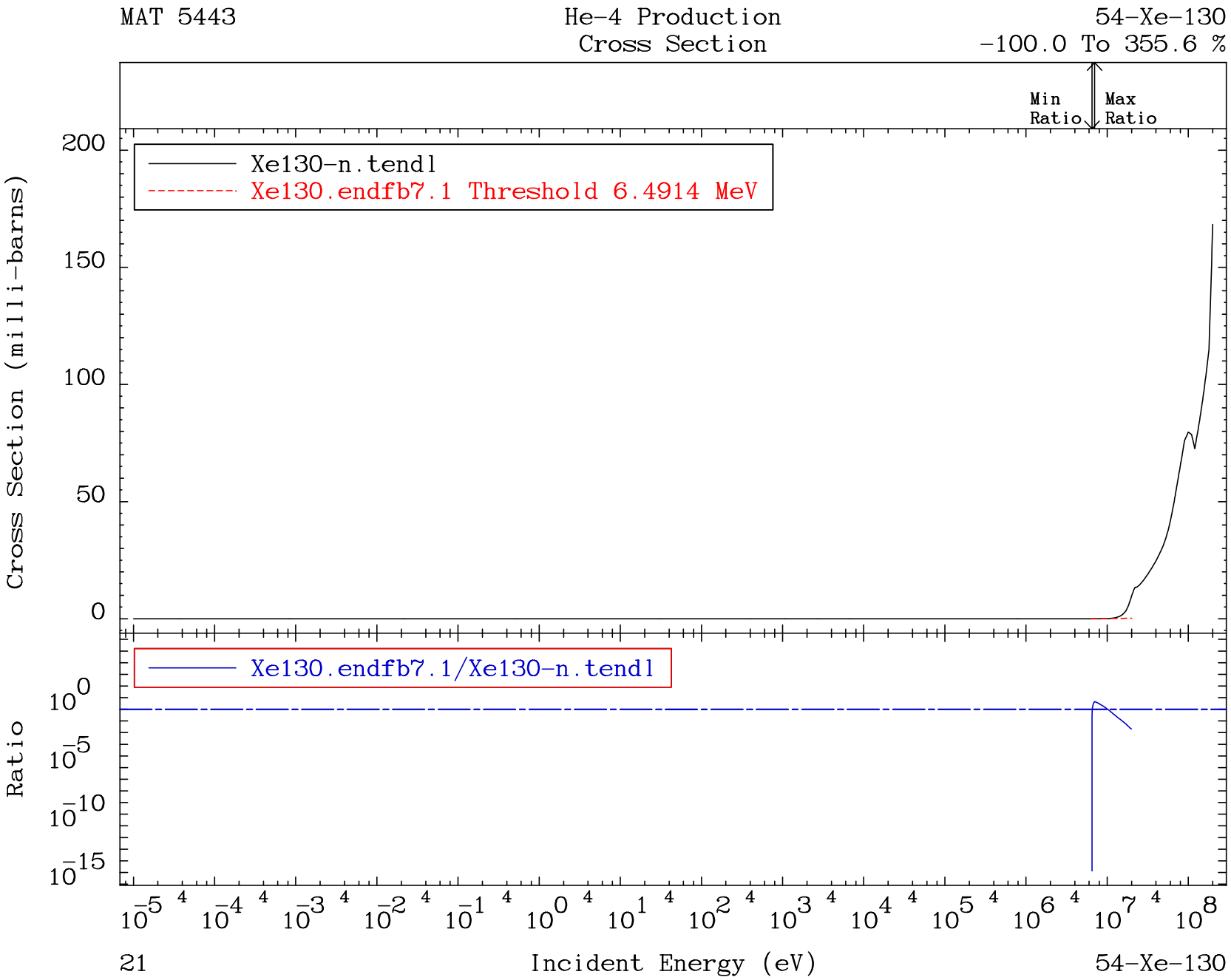

MAT 5443
(n,t)
Cross Section
54-Xe-130
214.5 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 9.0903 MeV
Xe130.endfb7.1 Threshold 9.0938 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
Xe130.endfb7.1/Xe130-n.tendl
Ratio
10^{12}
10^{8}
10^{4}
10^{0}
9
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
16
Incident Energy (eV)
54-Xe-130

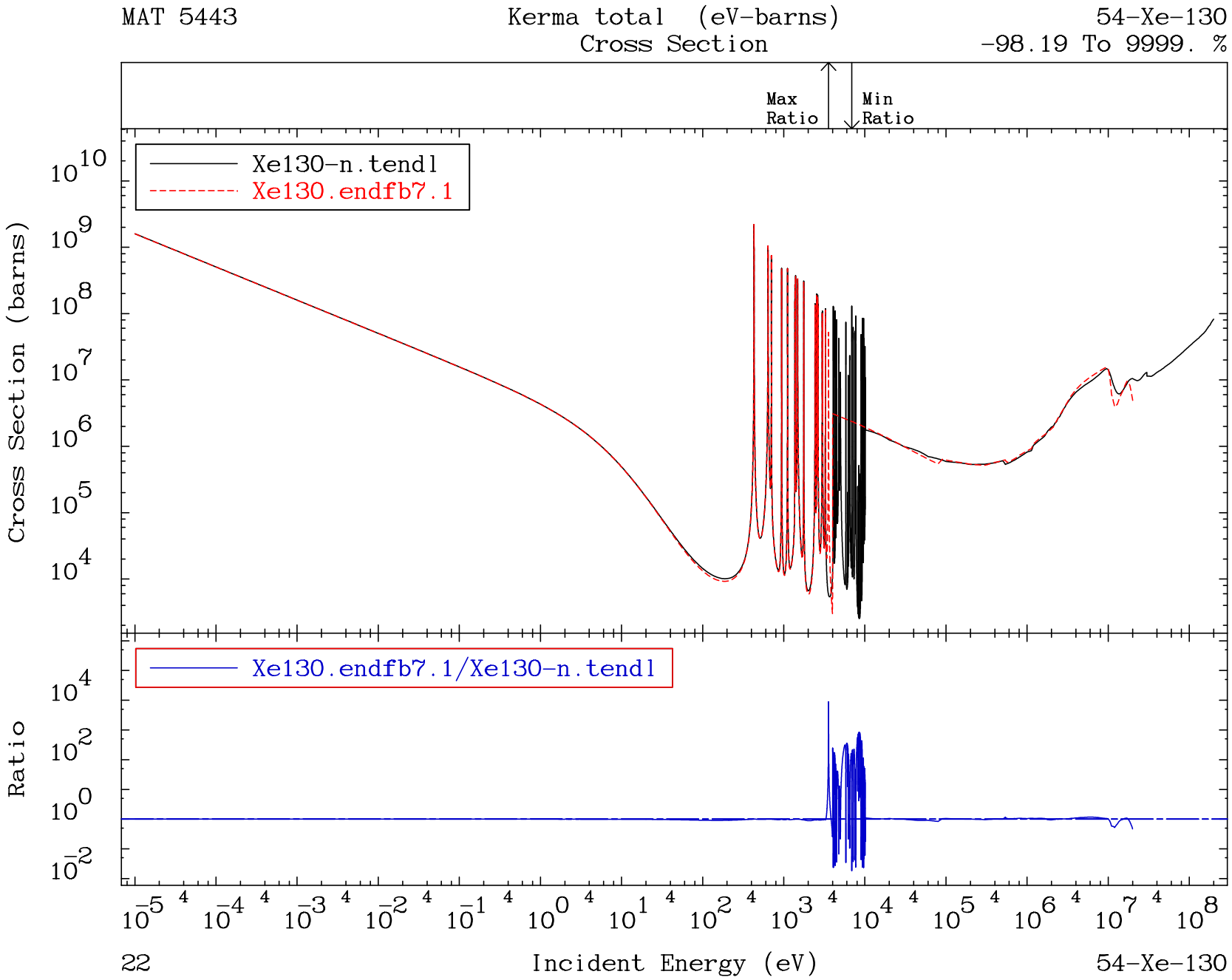

MAT 5443
(n,α)
Cross Section
54-Xe-130
-97.43 To 355.6 %
Max Ratio
Min Ratio
Xe130-n.tendl
Xe130.endfb7.1 Threshold 6.5000 MeV
Cross Section (milli-barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
17
54-Xe-130

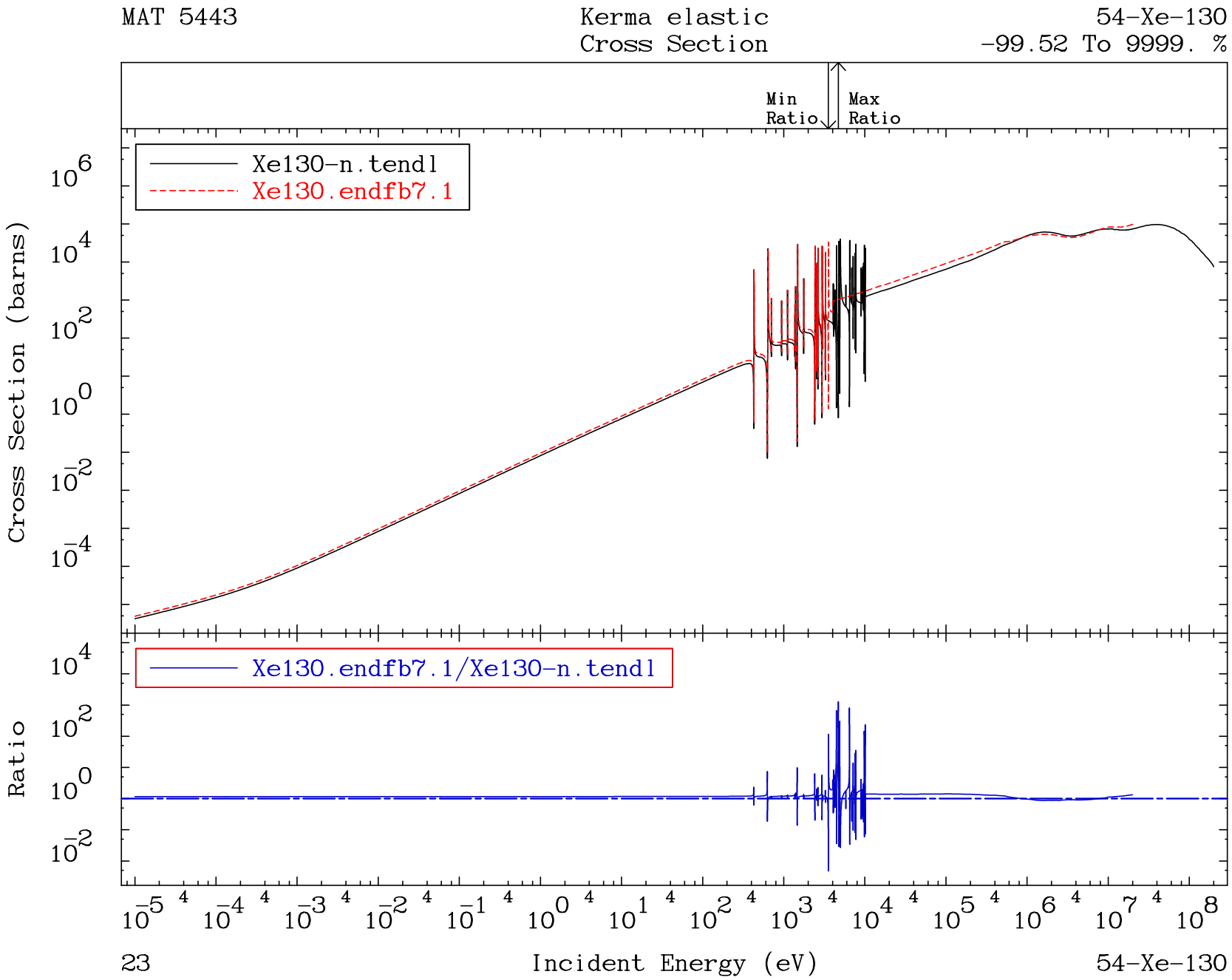

MAT 5443
Hydrogen Production
Cross Section
54-Xe-130
-90.60 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 2.1787 MeV
Xe130.endfb7.1 Threshold 2.2269 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
10^12
10^8
10^4
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
54-Xe-130

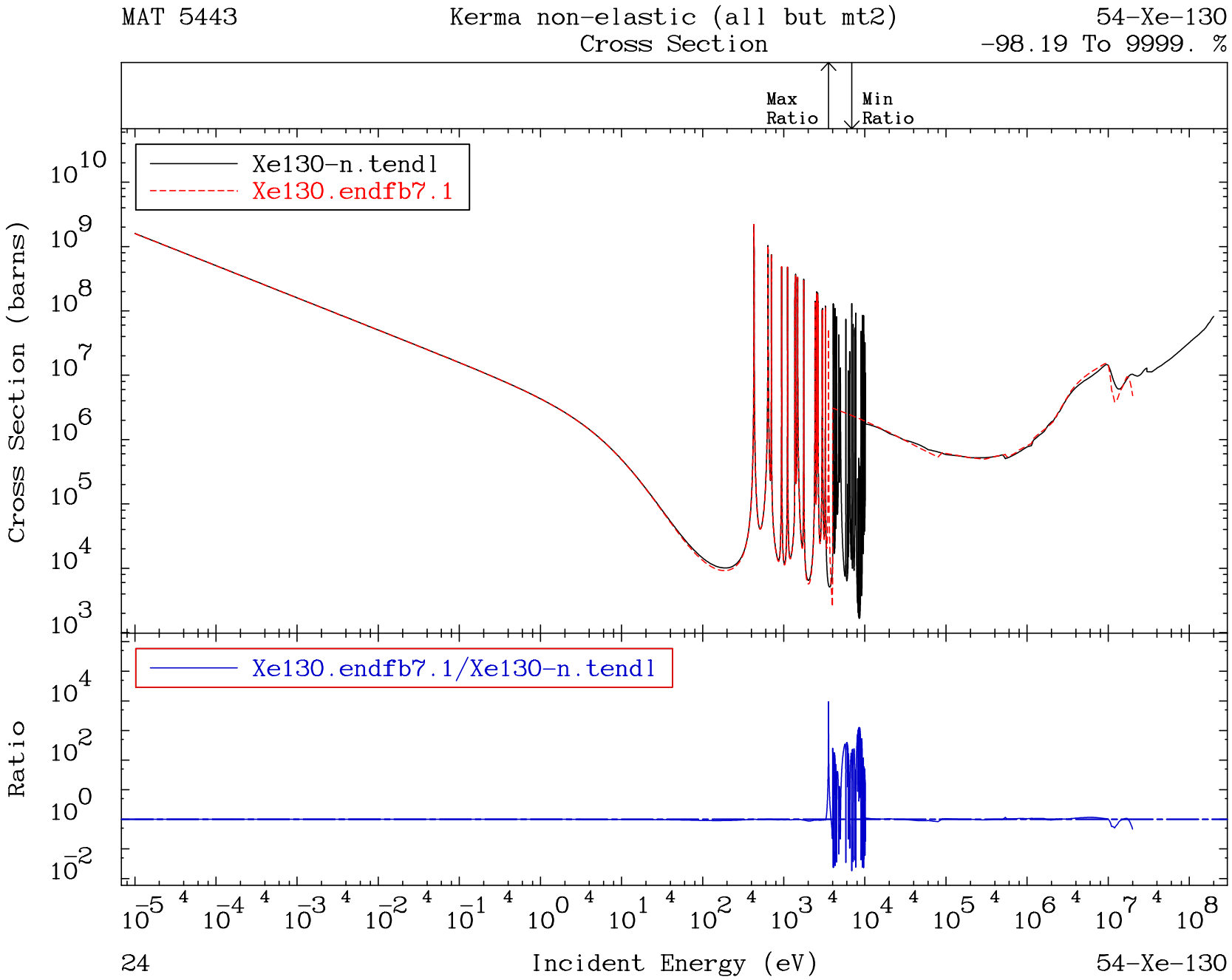

MAT 5443
Deuterium Production
Cross Section
54-Xe-130
-41.21 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 6.4877 MeV
Xe130.endfb7.1 Threshold 6.4914 MeV
Cross Section (milli-barns)
400
300
200
100
0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
10^15
10^10
10^5
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
54-Xe-130

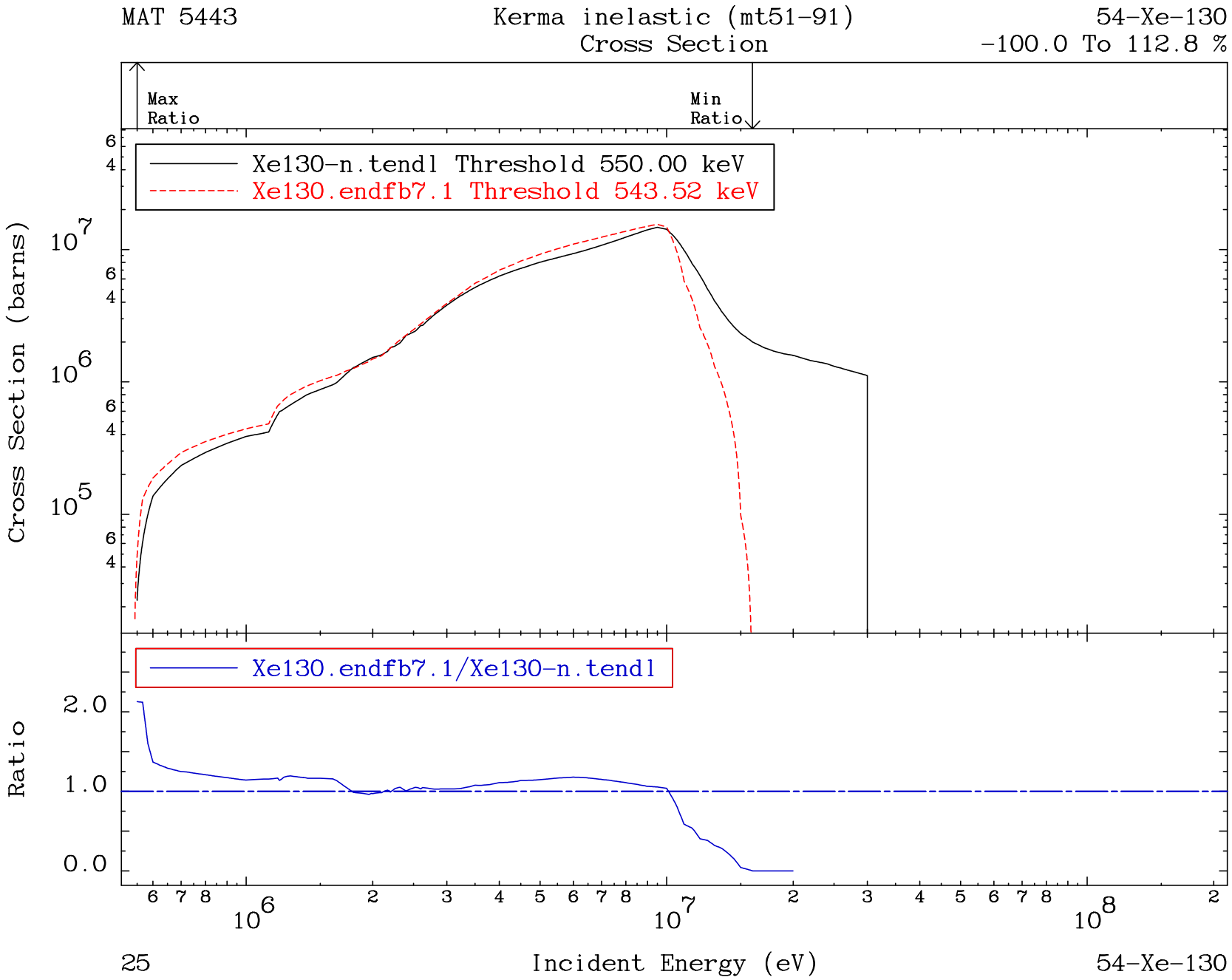

MAT 5443
Tritium Production
Cross Section
54-Xe-130
214.5 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 9.0903 MeV
Xe130.endfb7.1 Threshold 9.0938 MeV
Cross Section (milli-barns)
200
150
100
50
0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
10^{12}
10^{8}
10^{4}
10^{0}
9
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
20
Incident Energy (eV)
54-Xe-130

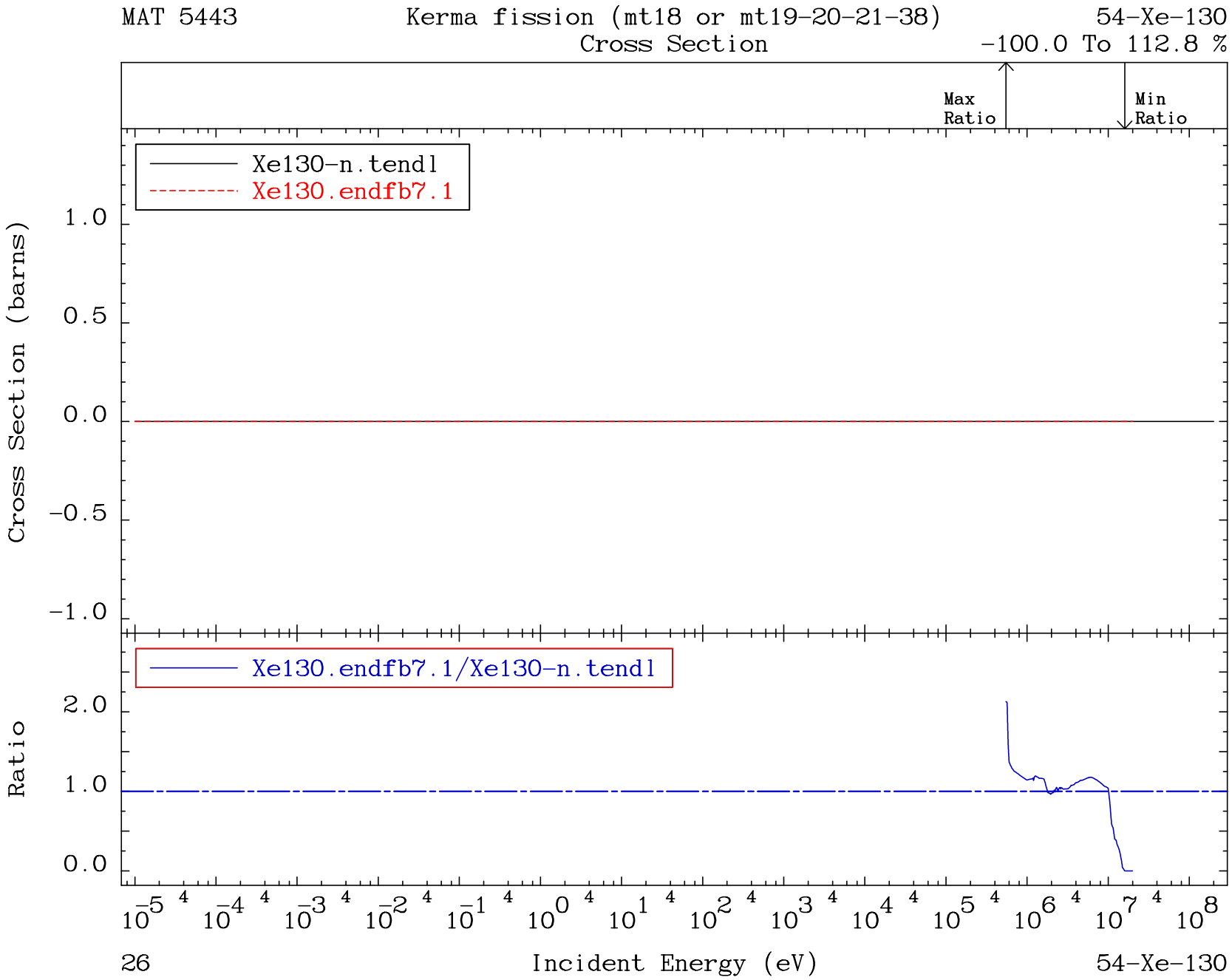

MAT 5443
He-4 Production
Cross Section
54-Xe-130
-100.0 To 355.6 %
Min Ratio
Max Ratio
Xe130-n.tendl
Xe130.endfb7.1 Threshold 6.4914 MeV
Cross Section (milli-barns)
200
150
100
50
0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
10^0
10^-5
10^-10
10^-15
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
21
Incident Energy (eV)
54-Xe-130

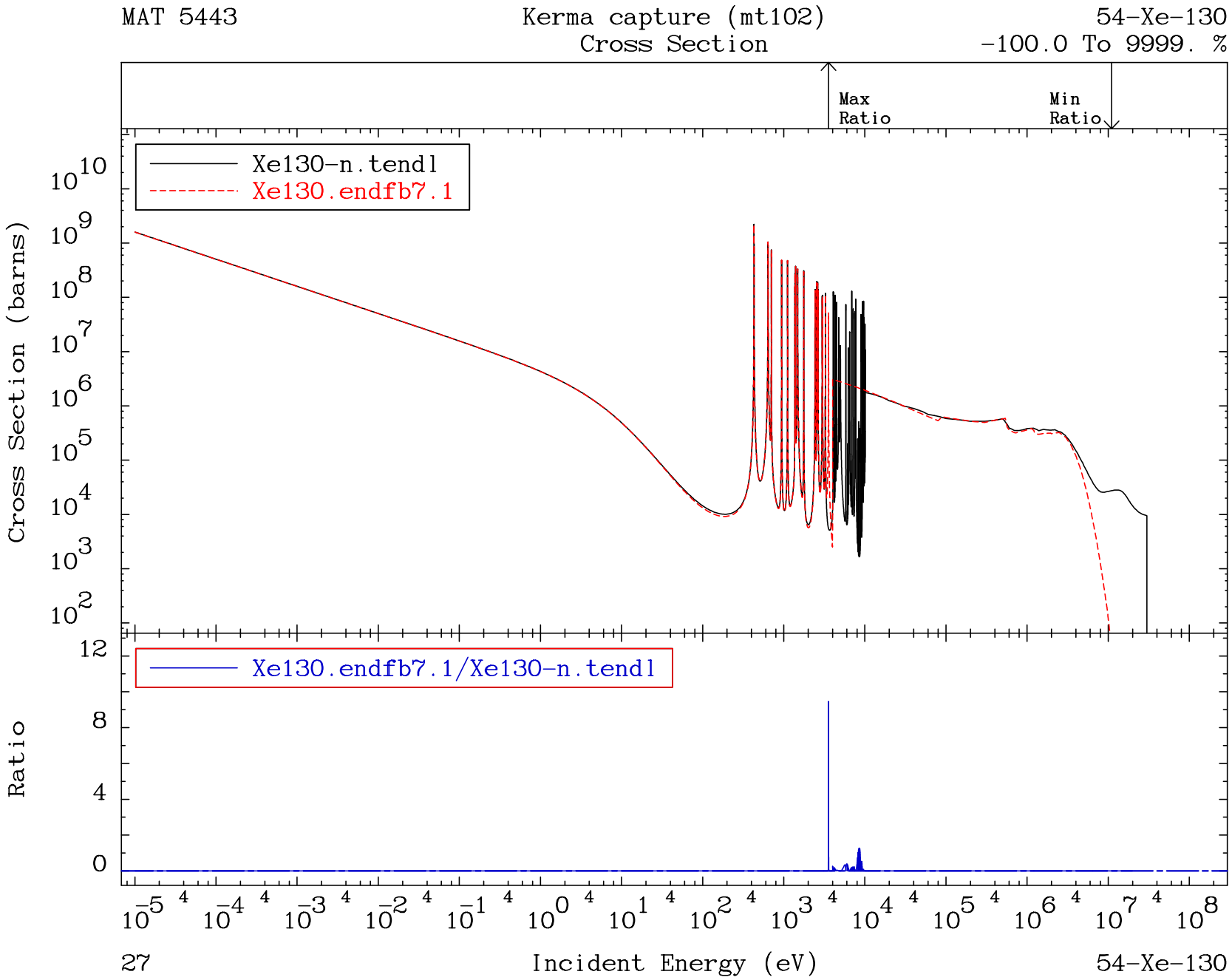

MAT 5443
Kerma total (eV-barns)
Cross Section
54-Xe-130
-98.19 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl
Xe130.endfb7.1
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
22
54-Xe-130

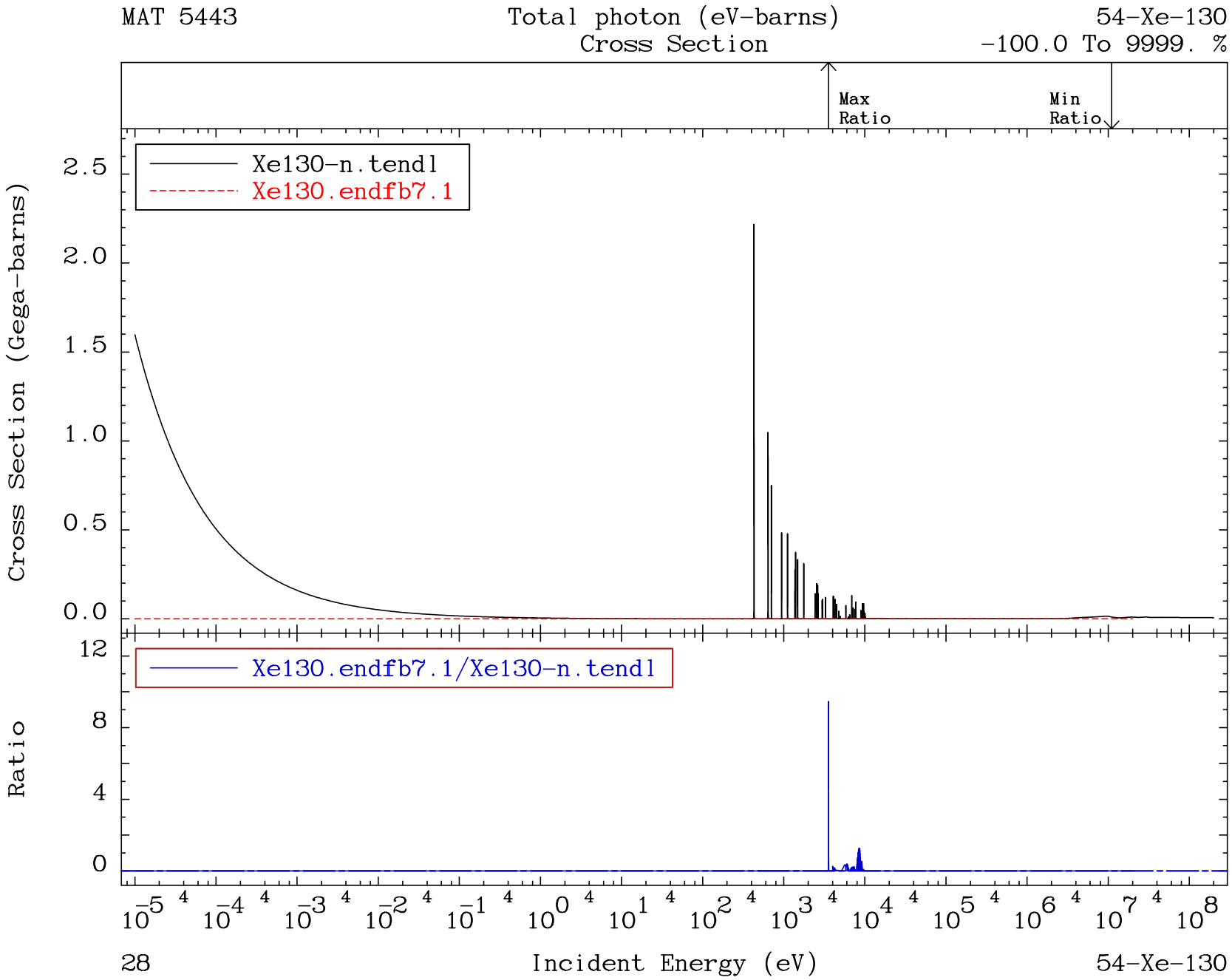

MAT 5443
Kerma elastic
Cross Section
54-Xe-130
-99.52 To 9999. %
Min Ratio
Max Ratio
Xe130-n.tendl
Xe130.endfb7.1
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
23
54-Xe-130

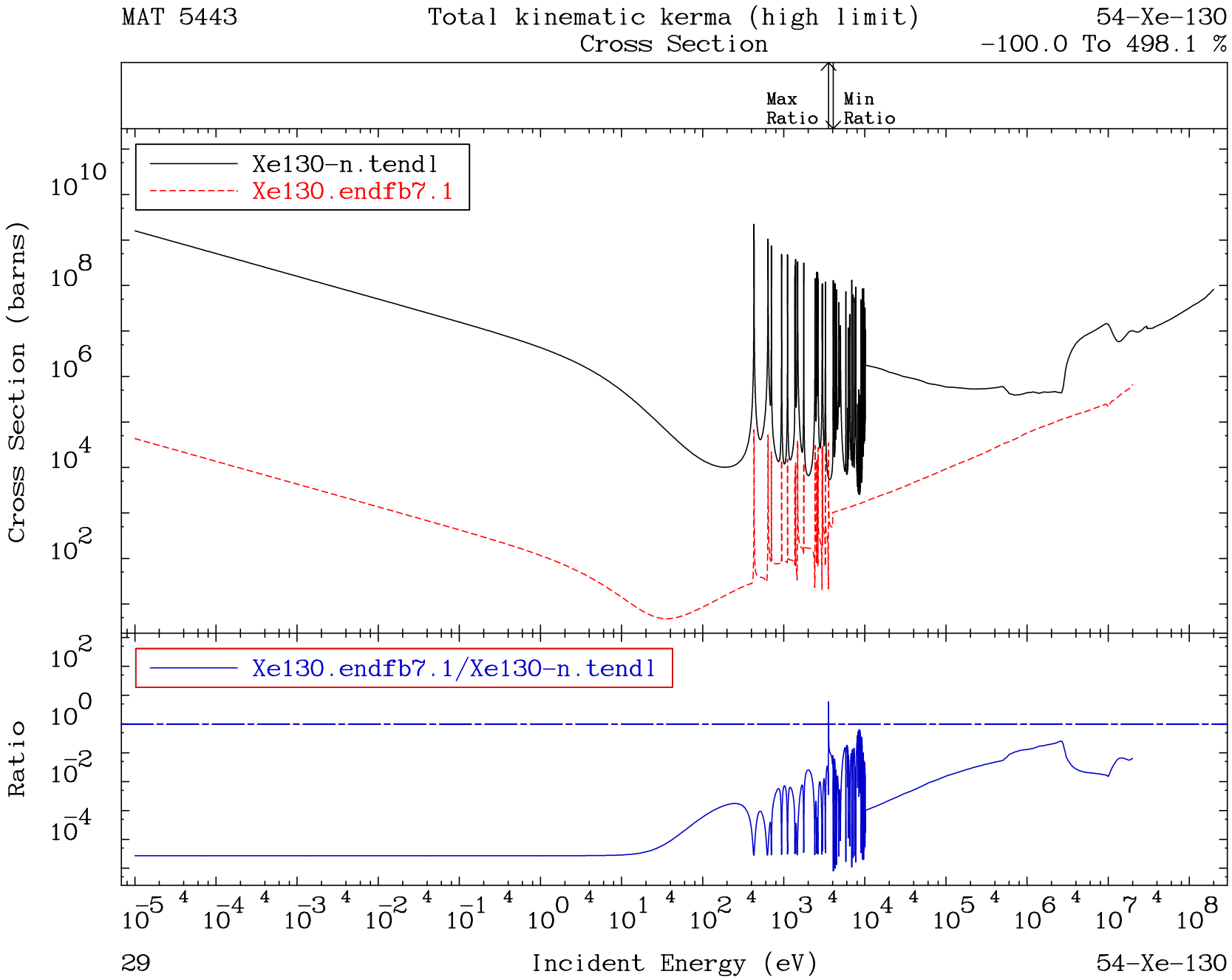

MAT 5443
Kerma non-elastic (all but mt2)
Cross Section
54-Xe-130
-98.19 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl
Xe130.endfb7.1
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
24
54-Xe-130

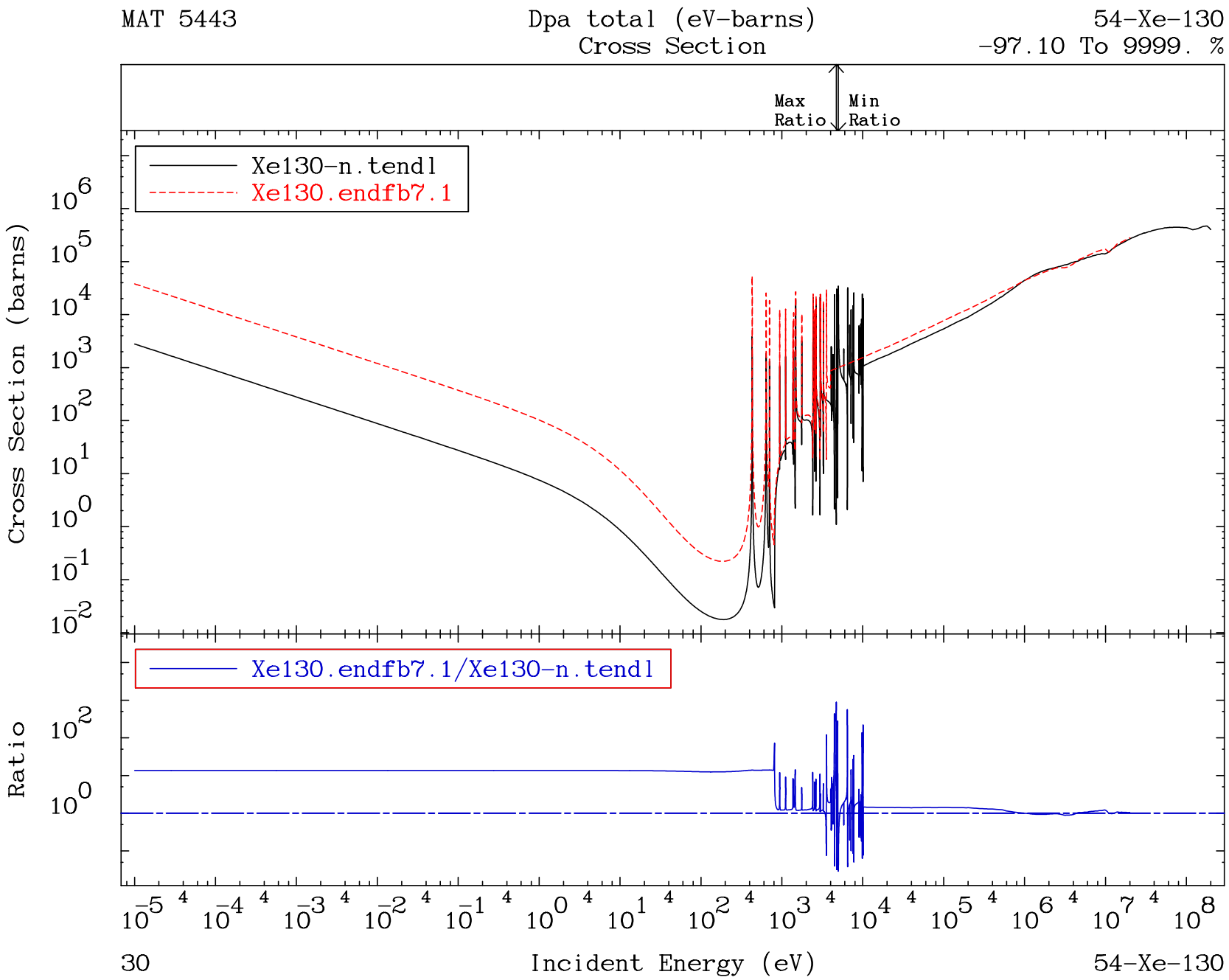

MAT 5443
Kerma inelastic (mt51-91)
Cross Section
54-Xe-130
-100.0 To 112.8 %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 550.00 keV
Xe130.endfb7.1 Threshold 543.52 keV
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
25
54-Xe-130

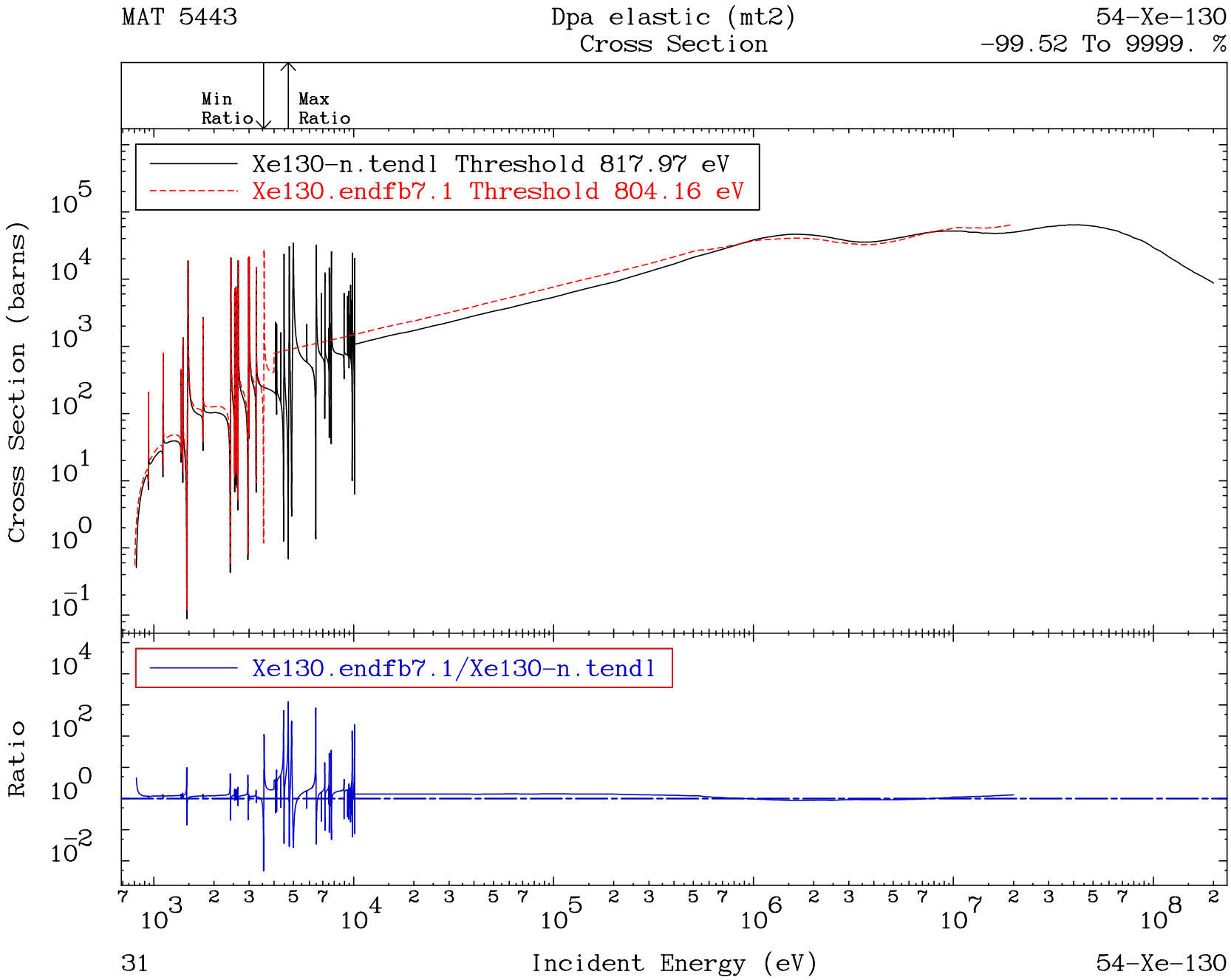

MAT 5443
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
54-Xe-130
-100.0 To 112.8 %
Max Ratio
Min Ratio
Xe130-n.tendl
Xe130.endfb7.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
26
Incident Energy (eV)
54-Xe-130

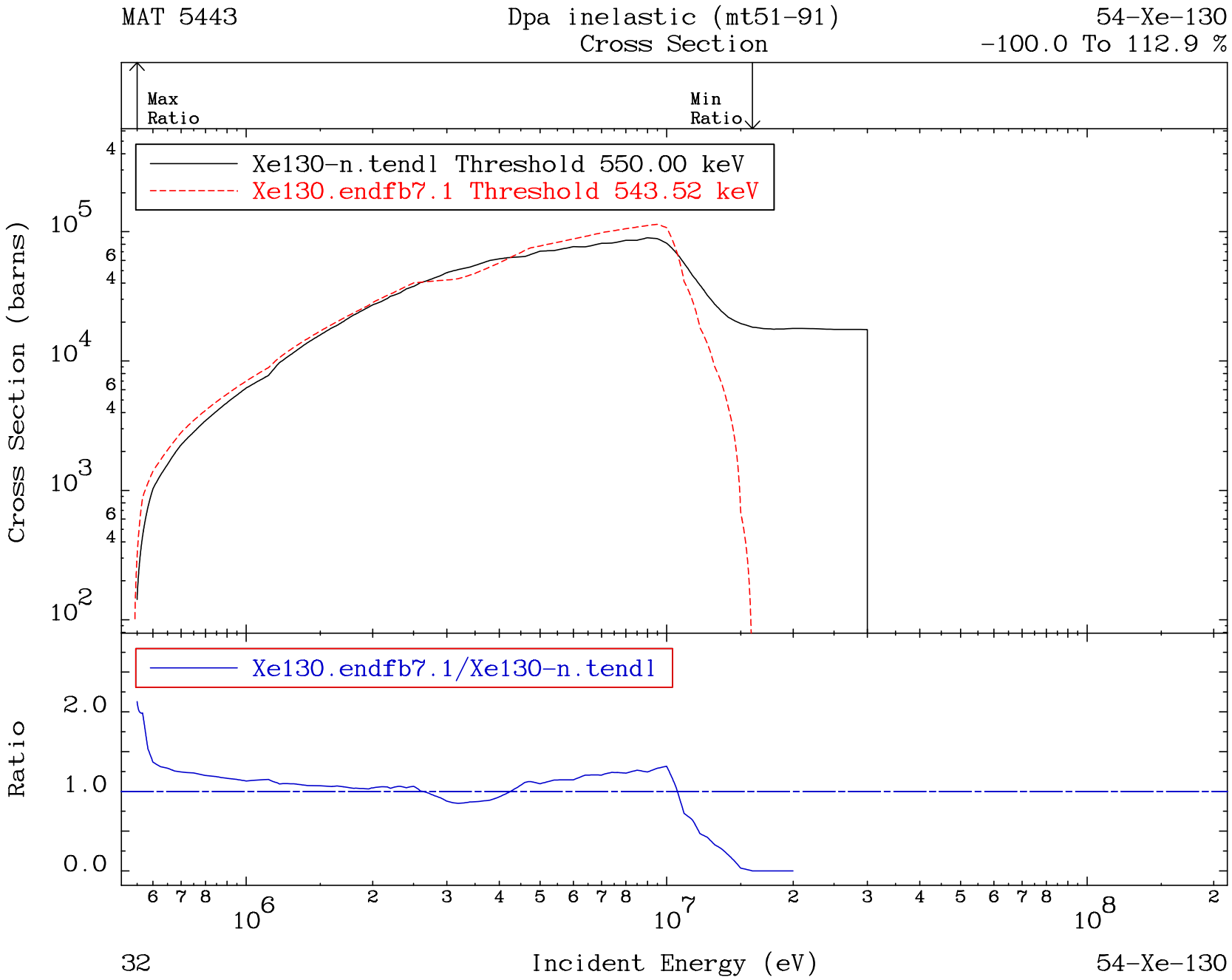

MAT 5443
Kerma capture (mt102)
Cross Section
54-Xe-130
-100.0 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl
Xe130.endfb7.1
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
27
54-Xe-130

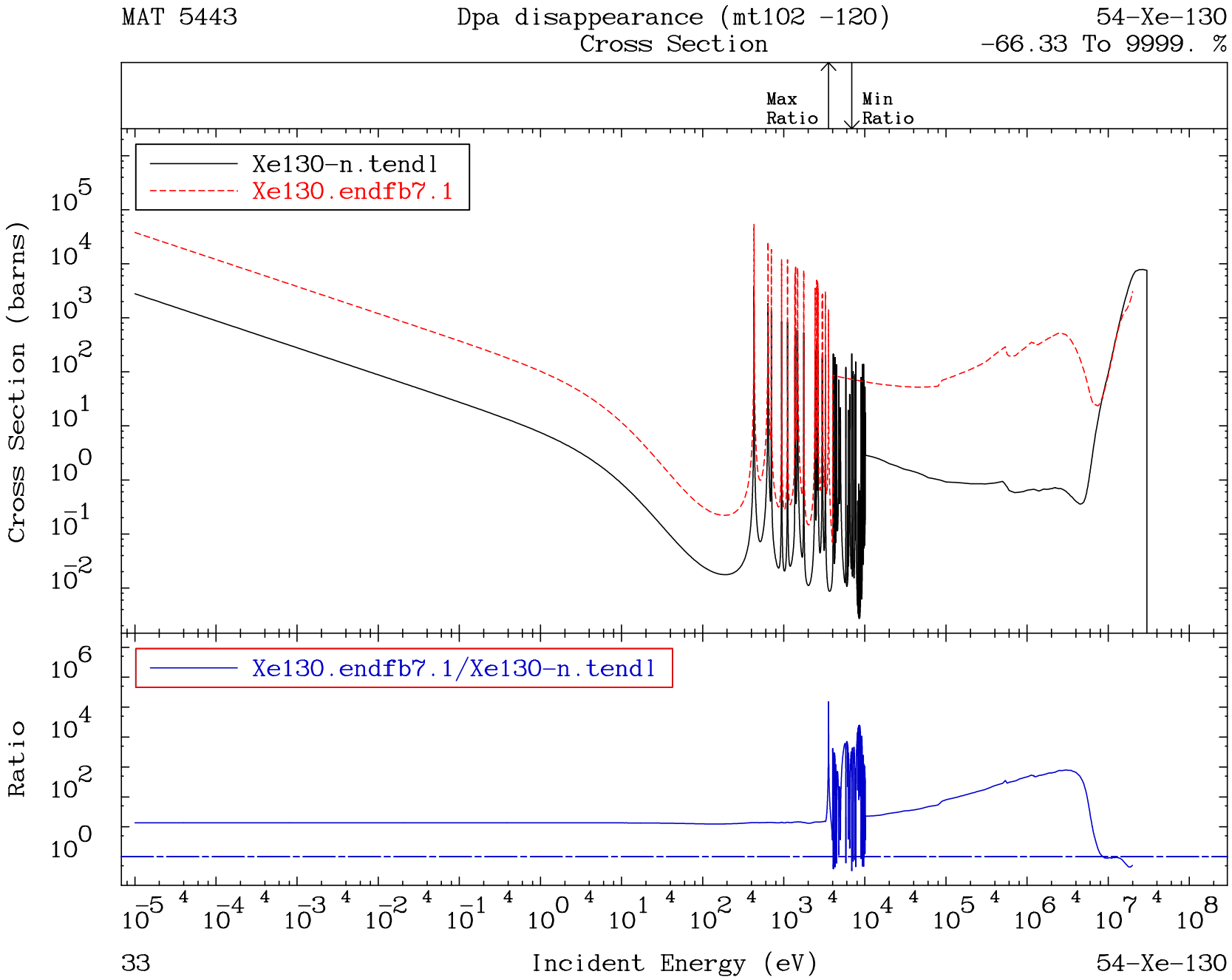

MAT 5443
Total photon (eV-barns)
Cross Section
54-Xe-130
-100.0 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl
Xe130.endfb7.1
Cross Section (Giga-barns)
2.5
2.0
1.5
1.0
0.5
0.0
Xe130.endfb7.1/Xe130-n.tendl
Ratio
12
8
4
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
28
Incident Energy (eV)
54-Xe-130


MAT 5443
Total kinematic kerma (high limit)
Cross Section
54-Xe-130
-100.0 To 498.1 %
Max Ratio
Min Ratio
Xe130-n.tendl
Xe130.endfb7.1
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
29
54-Xe-130


MAT 5443
Dpa total (eV-barns)
Cross Section
54-Xe-130
-97.10 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl
Xe130.endfb7.1
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
30
54-Xe-130


MAT 5443
Dpa elastic (mt2)
Cross Section
54-Xe-130
-99.52 To 9999. %
Min Ratio
Max Ratio
Xe130-n.tendl Threshold 817.97 eV
Xe130.endfb7.1 Threshold 804.16 eV
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
31
54-Xe-130


MAT 5443
Dpa inelastic (mt51-91)
Cross Section
54-Xe-130
-100.0 To 112.9 %
Max Ratio
Min Ratio
Xe130-n.tendl Threshold 550.00 keV
Xe130.endfb7.1 Threshold 543.52 keV
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
Incident Energy (eV)
32
54-Xe-130


MAT 5443
Dpa disappearance (mt102 -120)
Cross Section
54-Xe-130
-66.33 To 9999. %
Max Ratio
Min Ratio
Xe130-n.tendl
Xe130.endfb7.1
Cross Section (barns)
Xe130.endfb7.1/Xe130-n.tendl
Ratio
33
Incident Energy (eV)
54-Xe-130