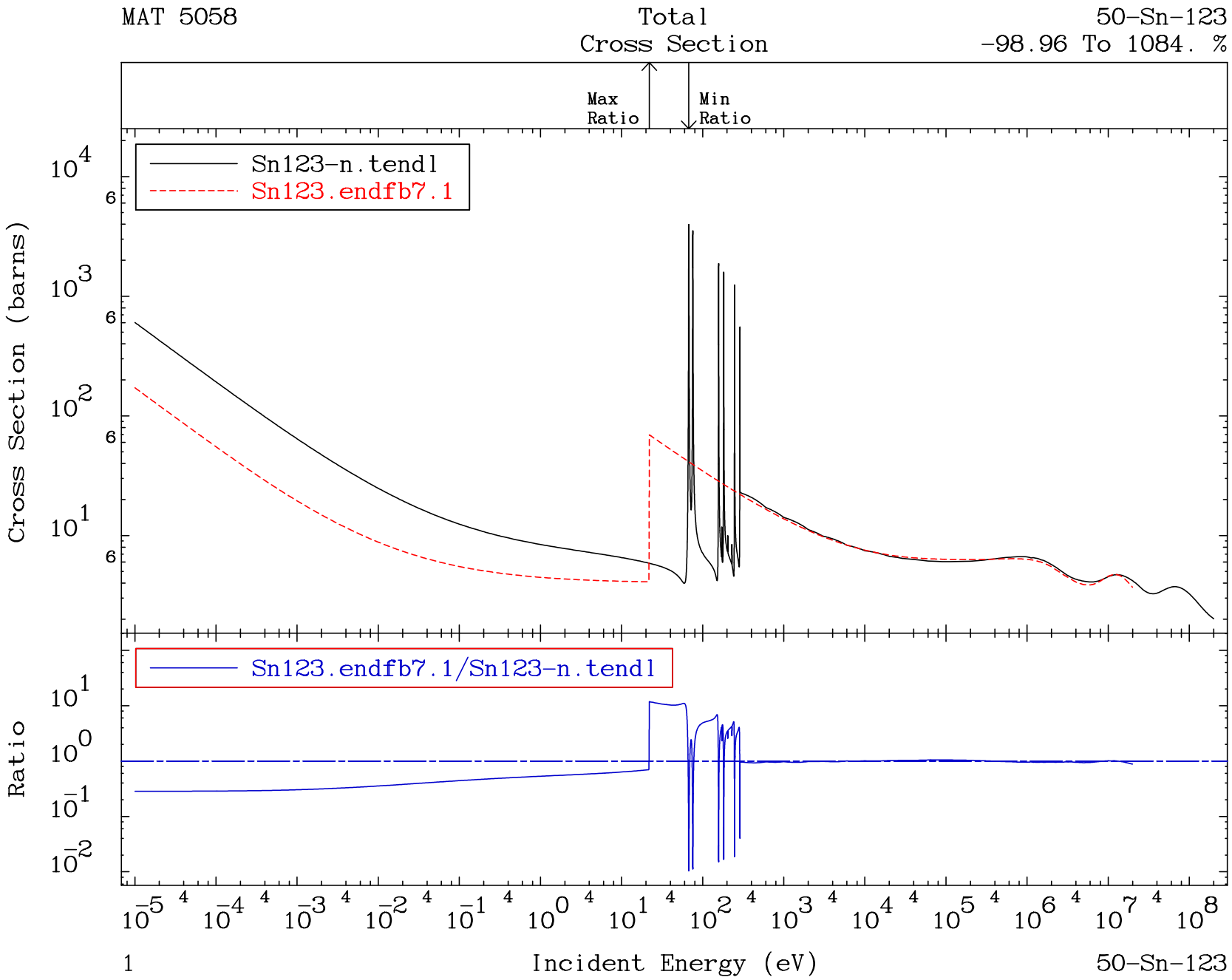
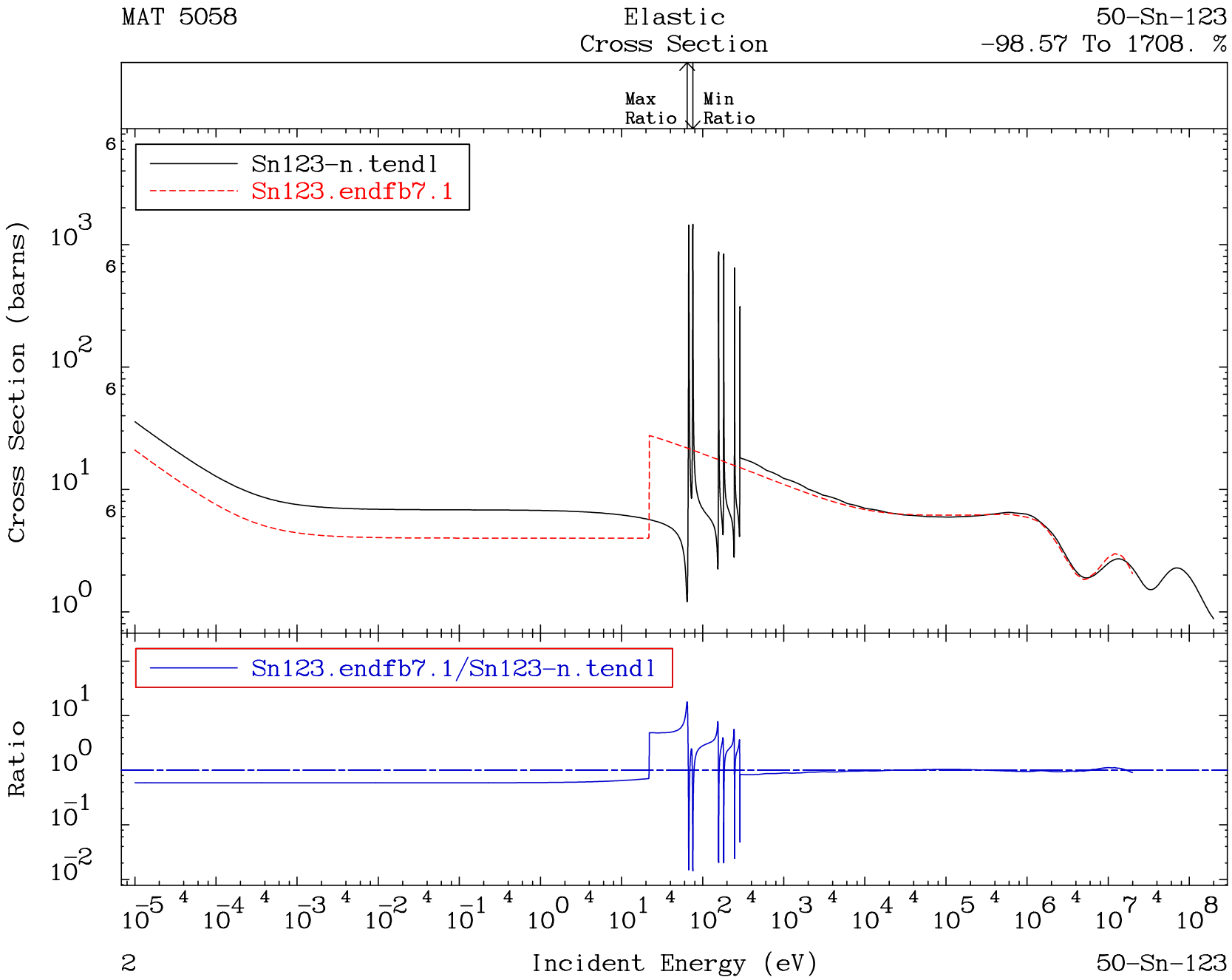
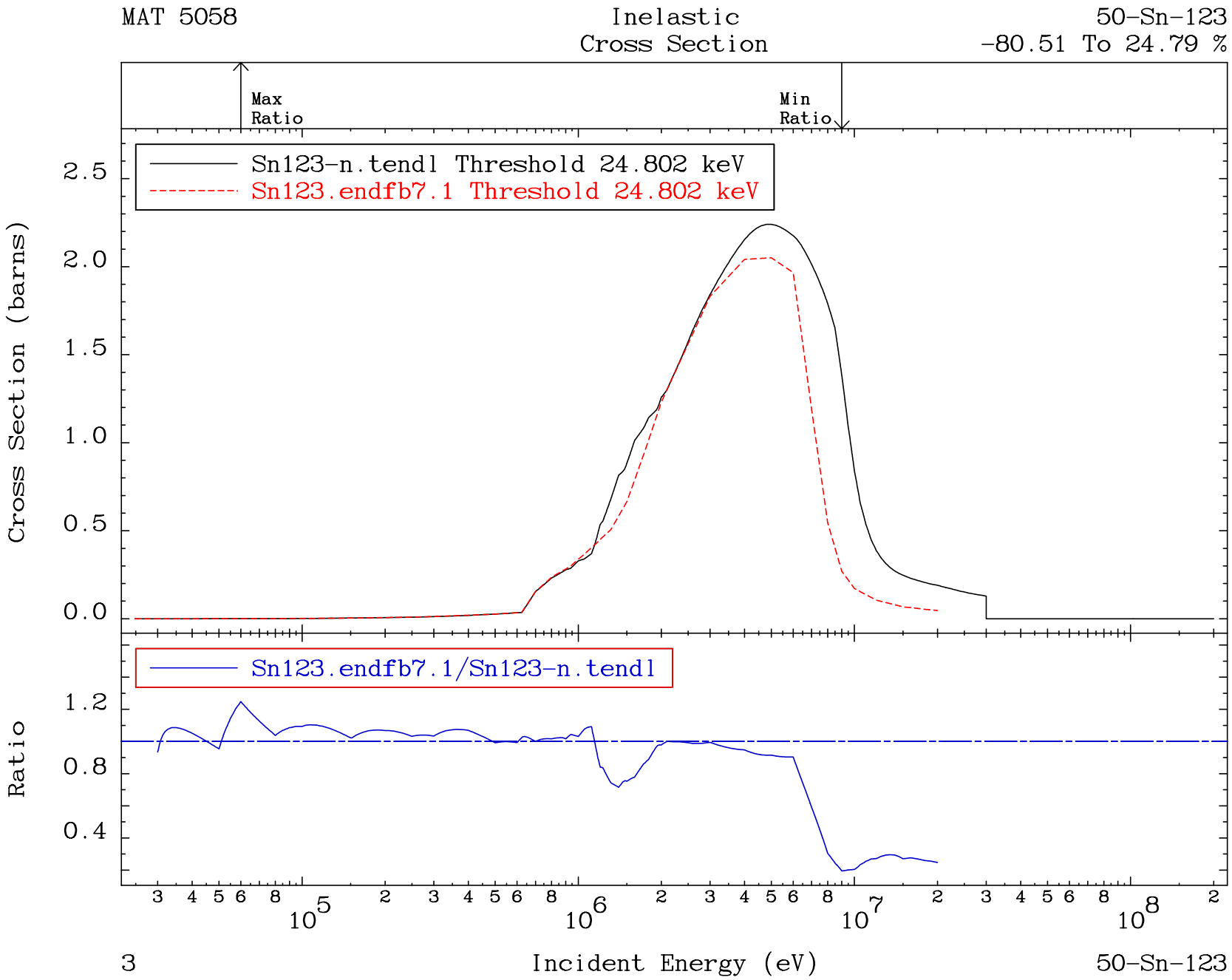
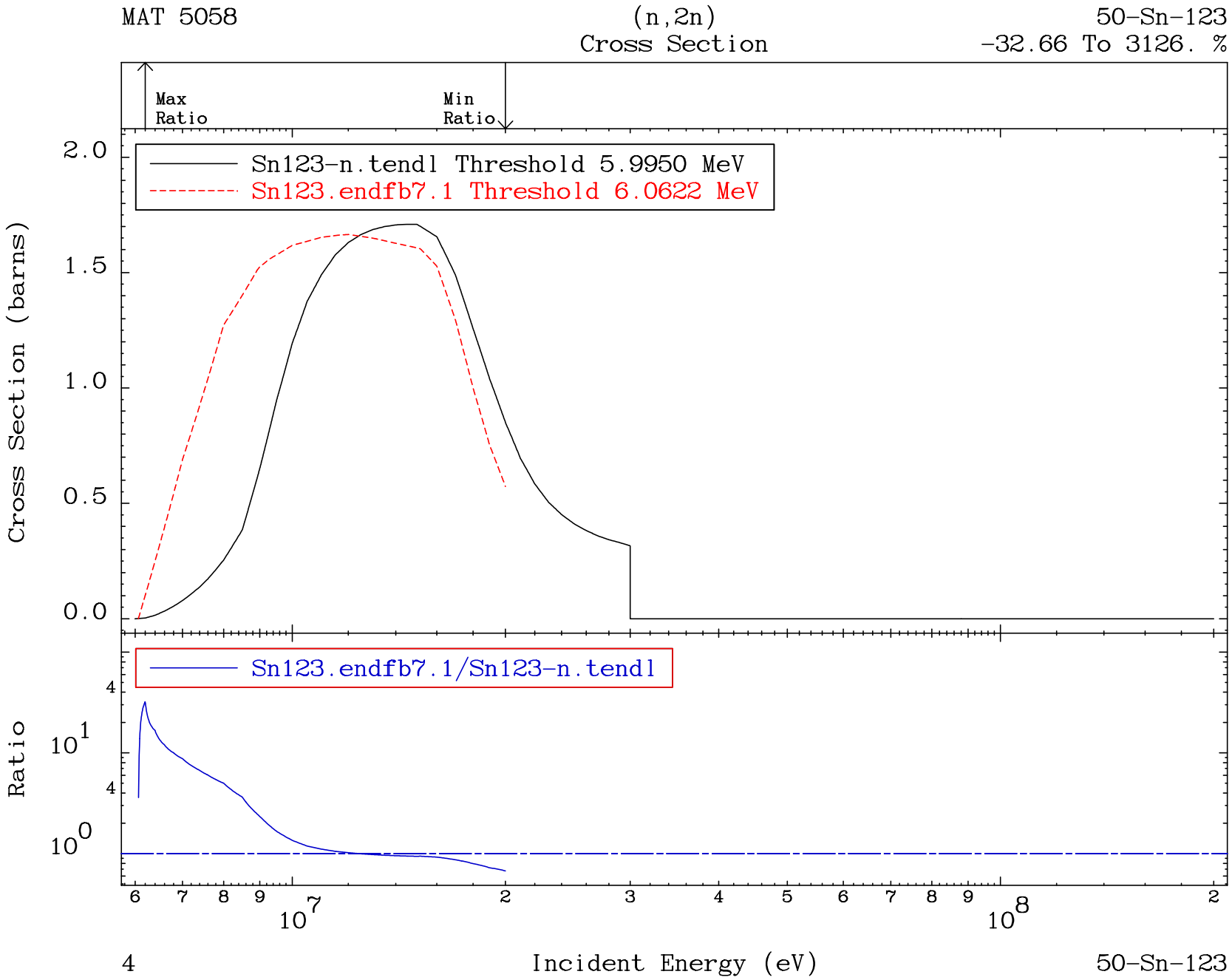
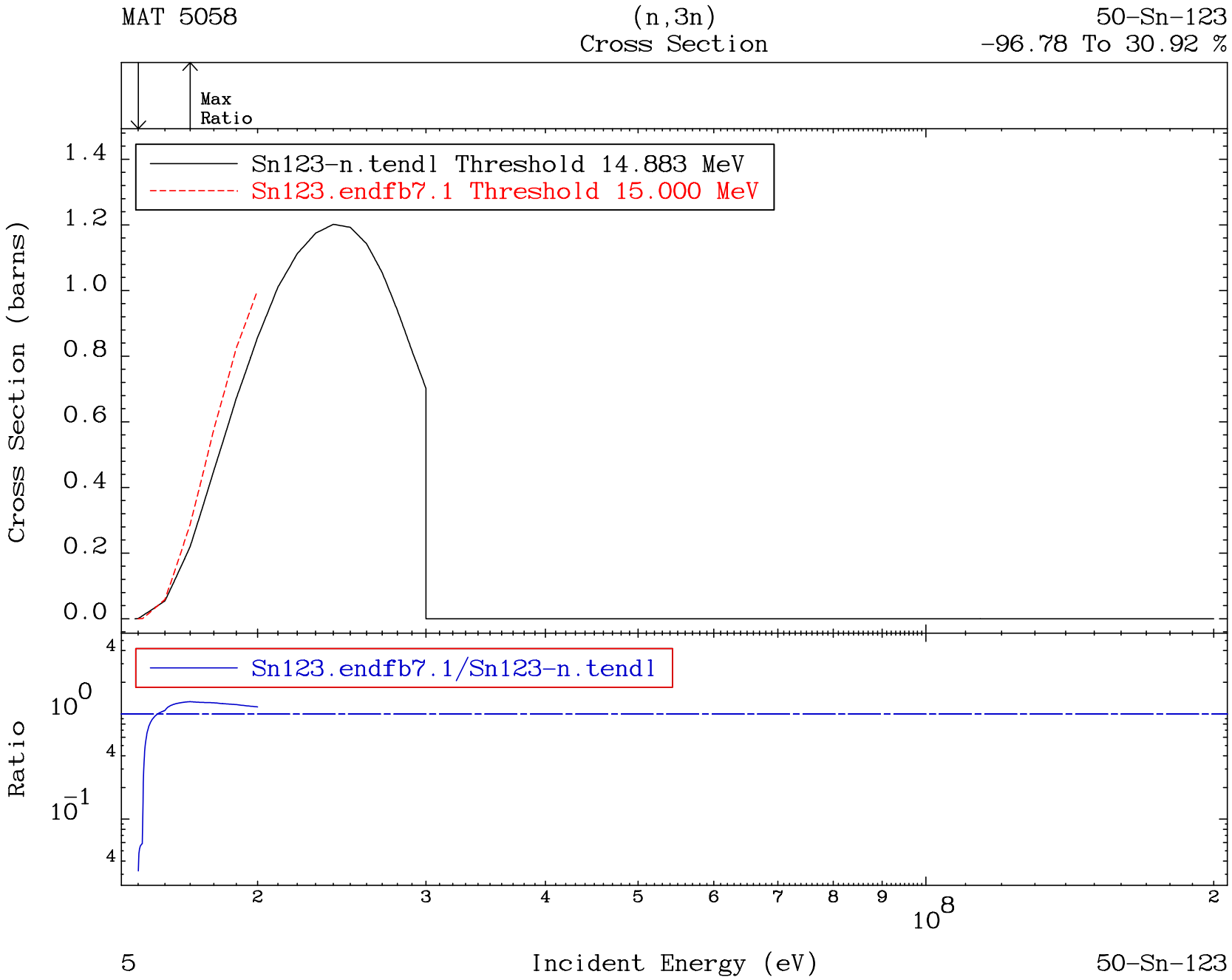
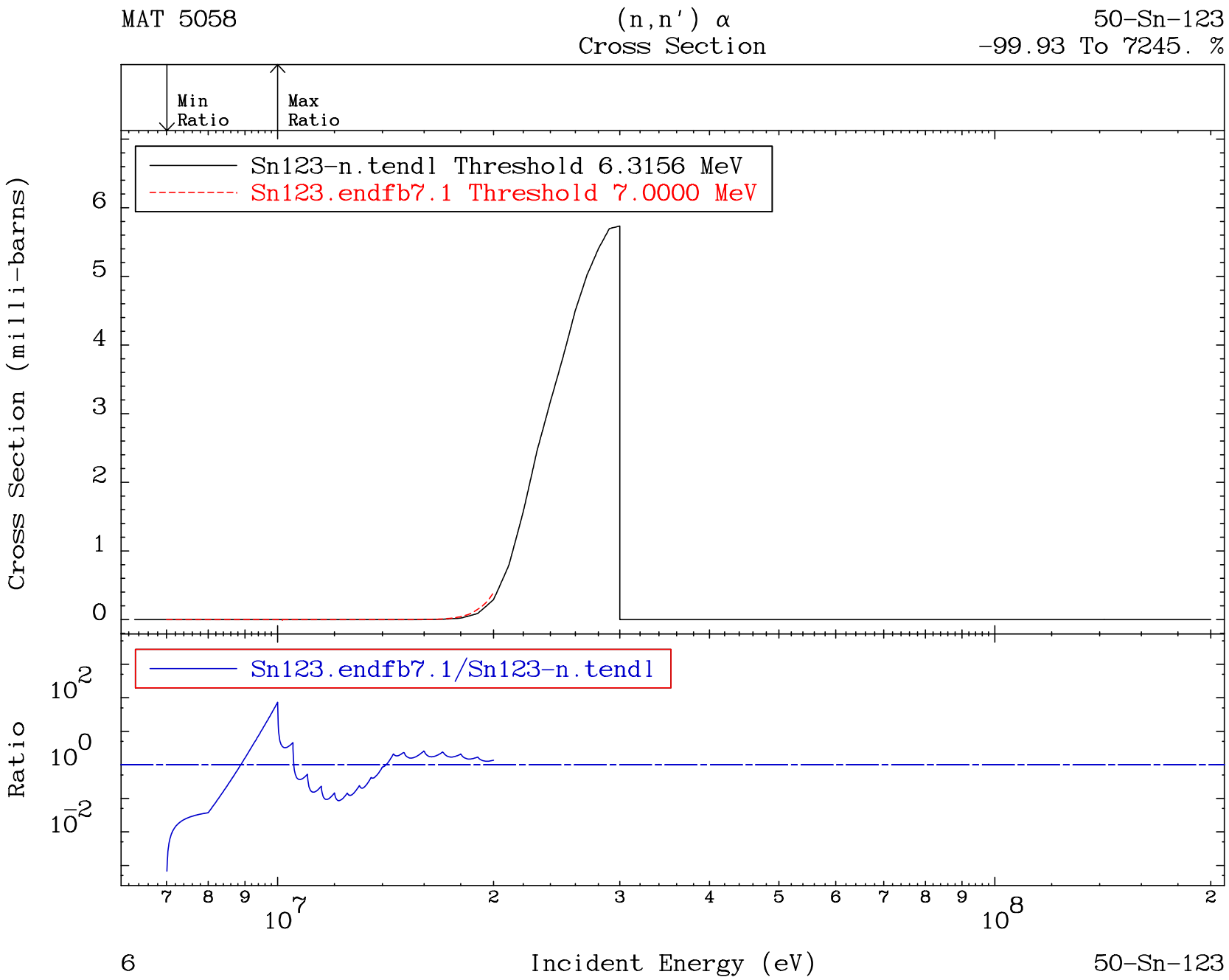

MAT 5058
Total
Cross Section
50-Sn-123
-98.96 To 1084. %
Max
Ratio
Min
Ratio
Sn123-n.tendl
Sn123.endfb7.1
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
1
50-Sn-123

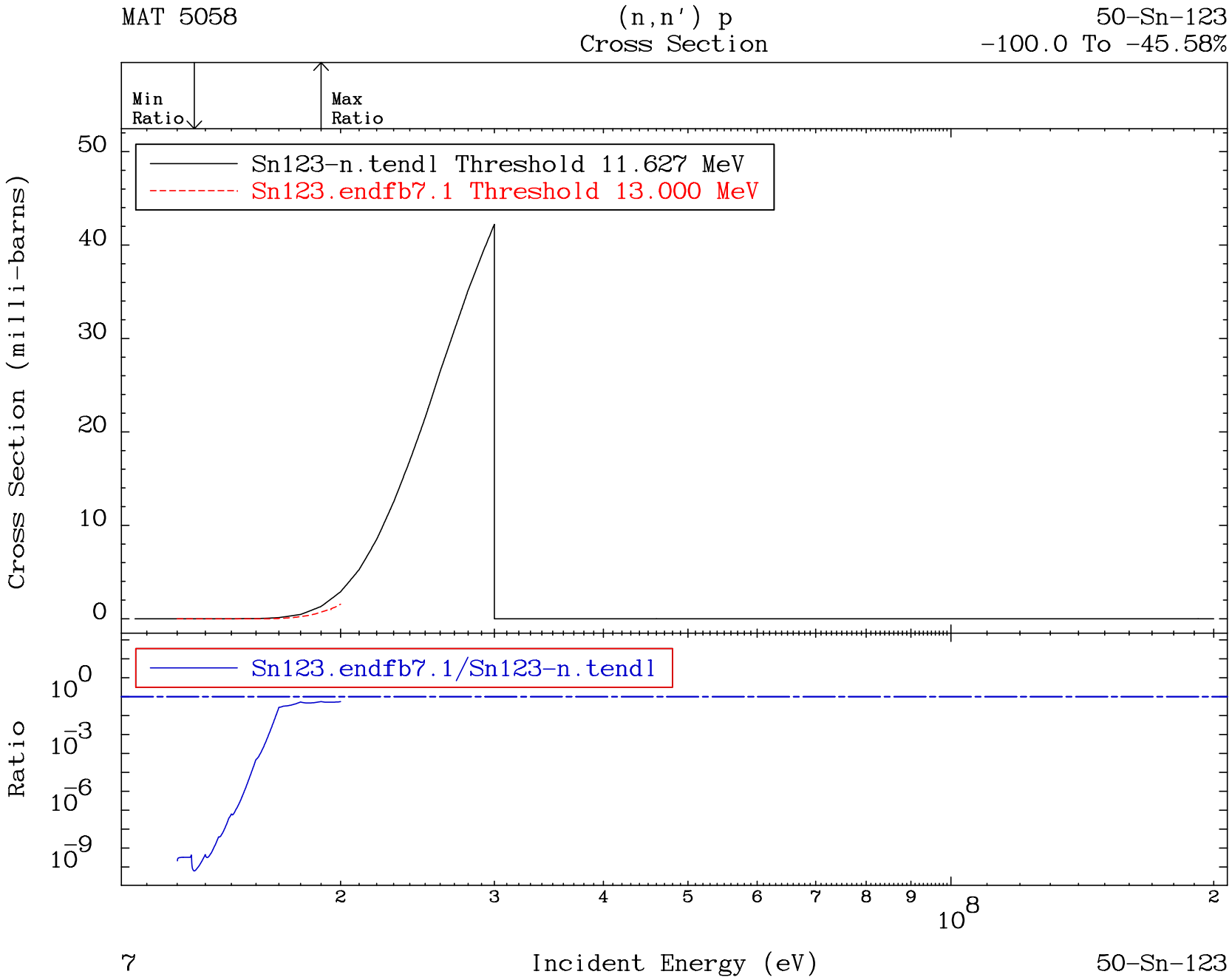

MAT 5058
Elastic
Cross Section
50-Sn-123
-98.57 To 1708. %
Max Ratio
Min Ratio
Sn123-n.tendl
Sn123.endfb7.1
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
2
50-Sn-123

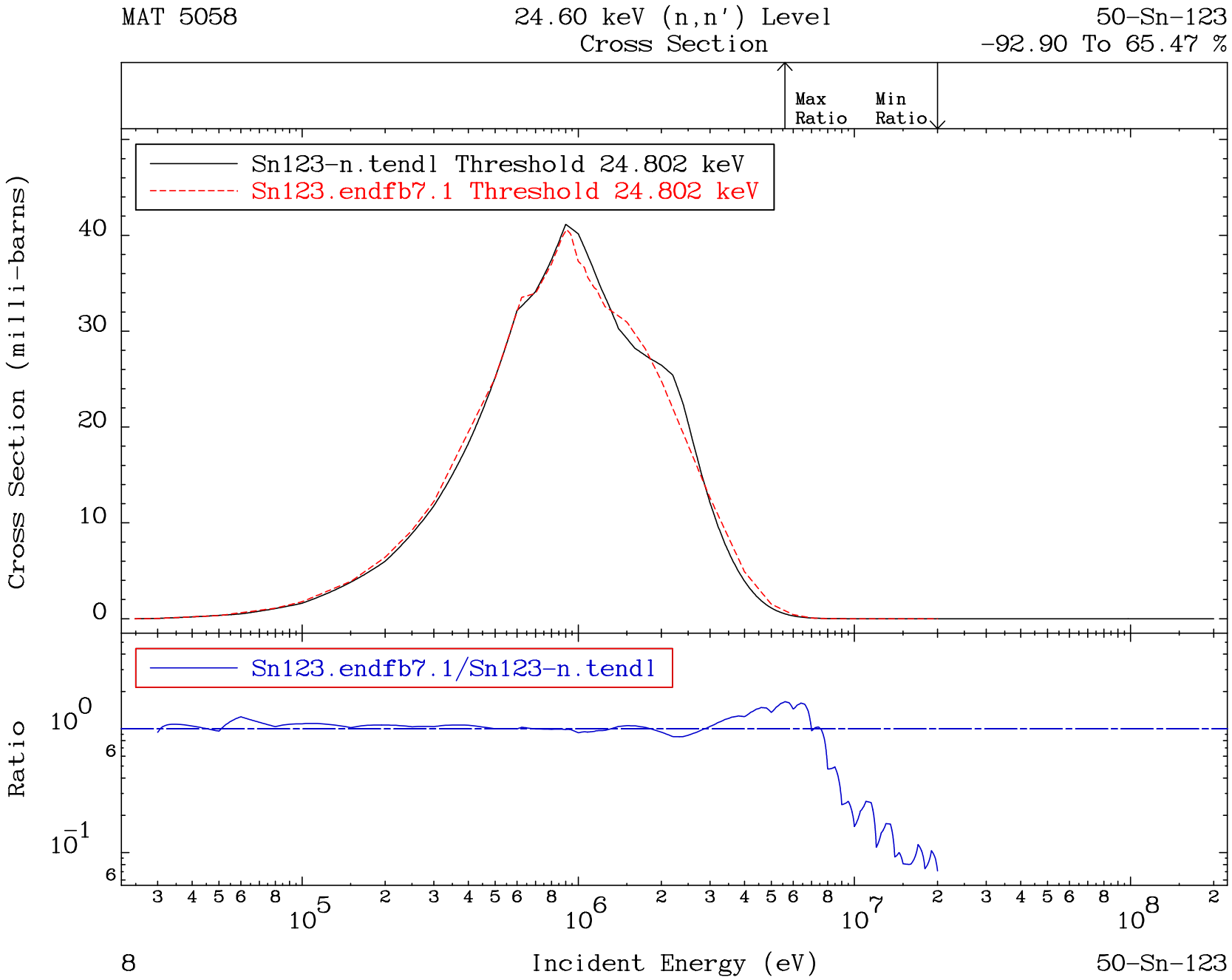

MAT 5058
Inelastic
Cross Section
50-Sn-123
-80.51 To 24.79 %
Max
Ratio
Min
Ratio
Sn123-n.tendl Threshold 24.802 keV
Sn123.endfb7.1 Threshold 24.802 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
1.2
0.8
0.4
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
50-Sn-123

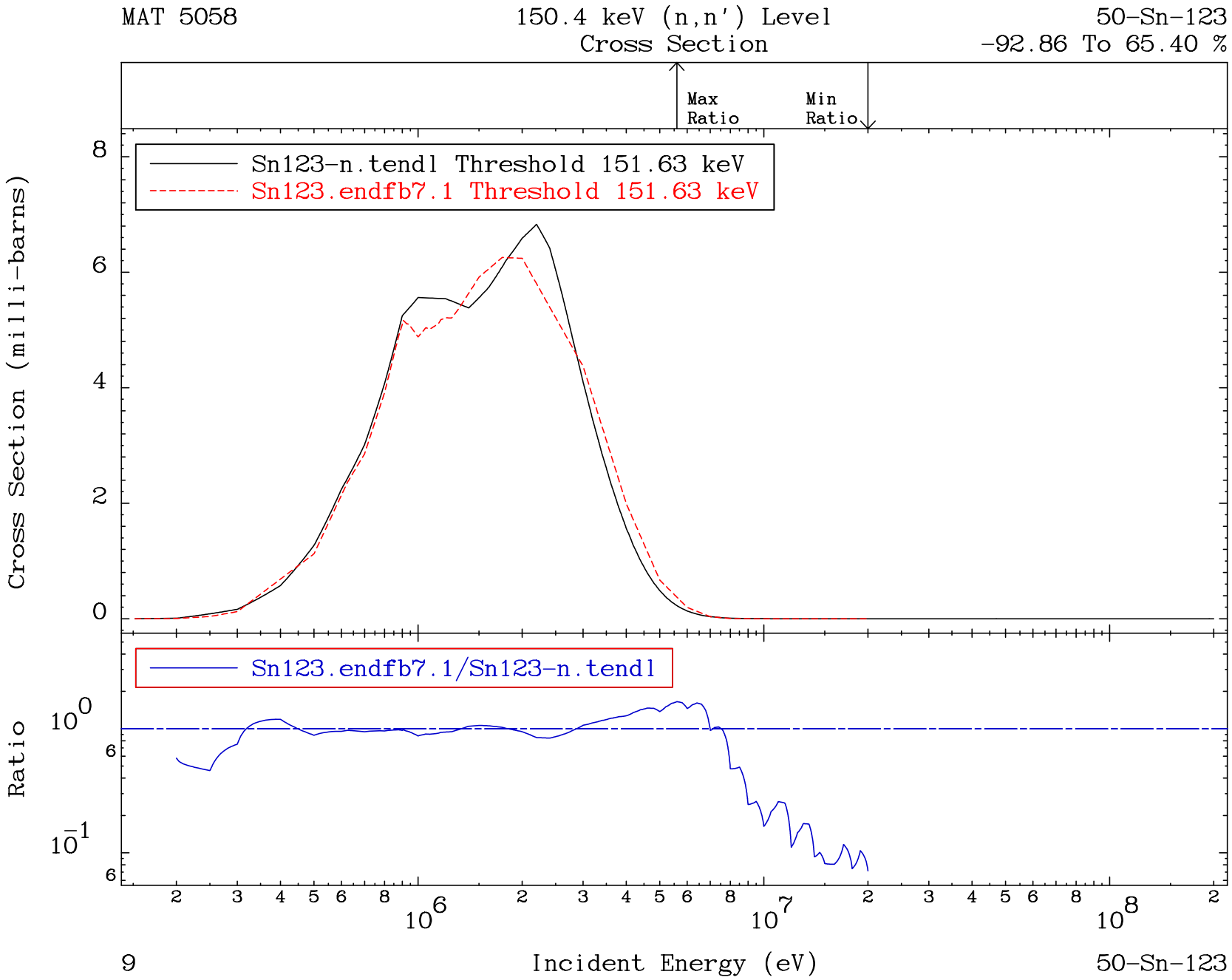

MAT 5058
(n,2n)
Cross Section
50-Sn-123
-32.66 To 3126. %
Max Ratio
Min Ratio
Sn123-n.tendl Threshold 5.9950 MeV
Sn123.endfb7.1 Threshold 6.0622 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
4
10^1
4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
50-Sn-123

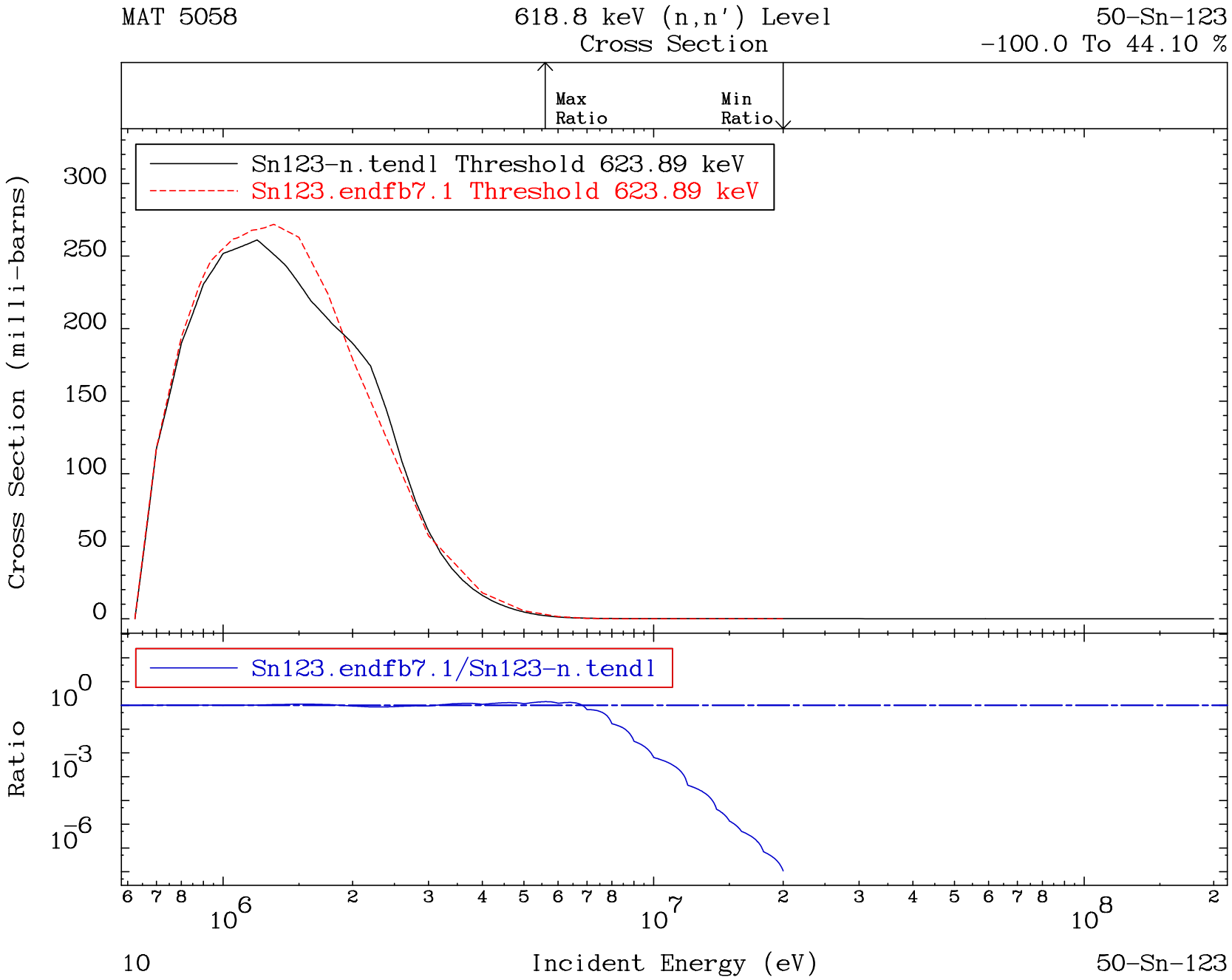

MAT 5058
(n,3n)
Cross Section
50-Sn-123
-96.78 To 30.92 %
Max
Ratio
Sn123-n.tendl Threshold 14.883 MeV
Sn123.endfb7.1 Threshold 15.000 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
50-Sn-123

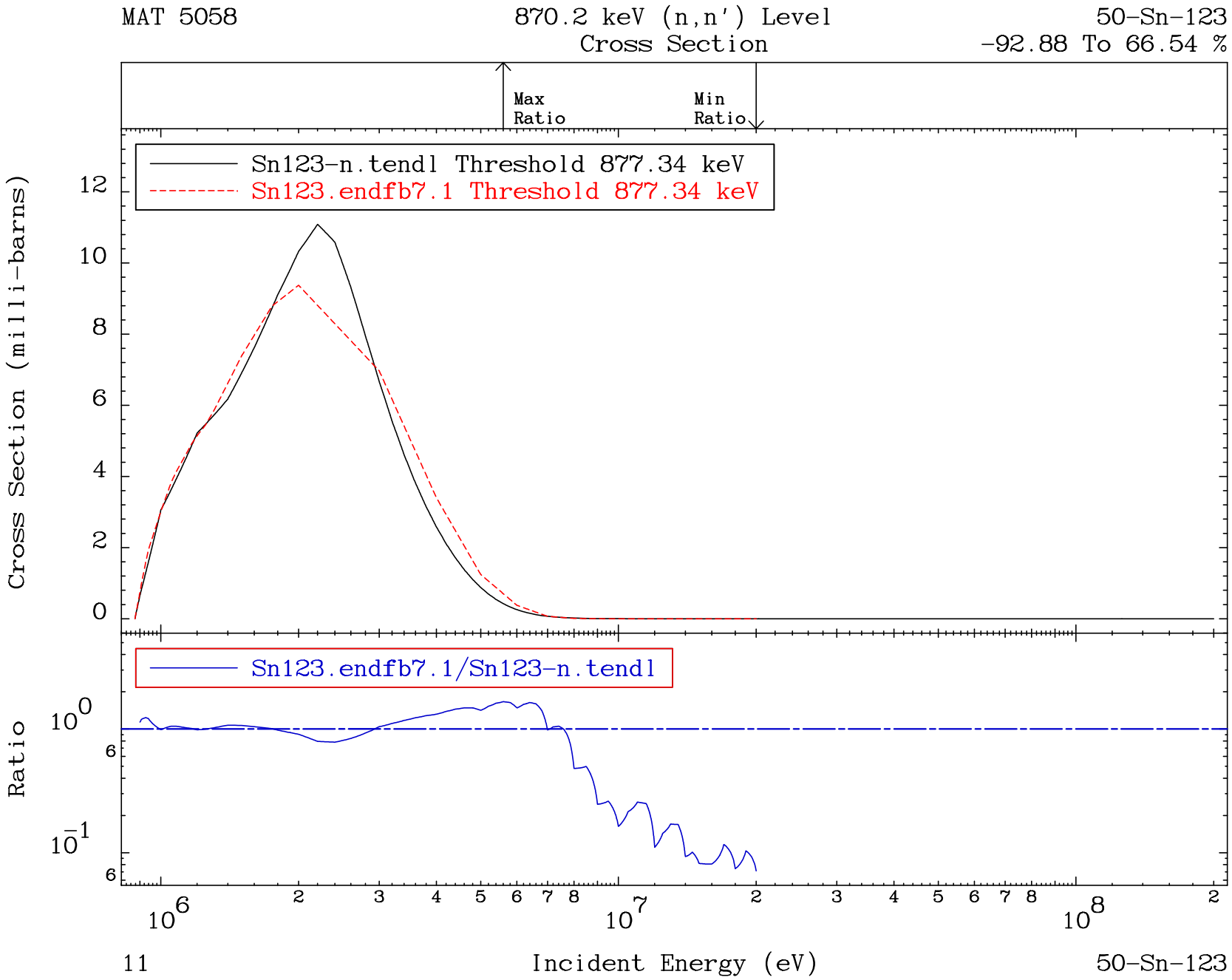

MAT 5058
(n,n') α
Cross Section
50-Sn-123
-99.93 To 7245. %
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 6.3156 MeV
Sn123.endfb7.1 Threshold 7.0000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^2
10^0
10^-2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
50-Sn-123

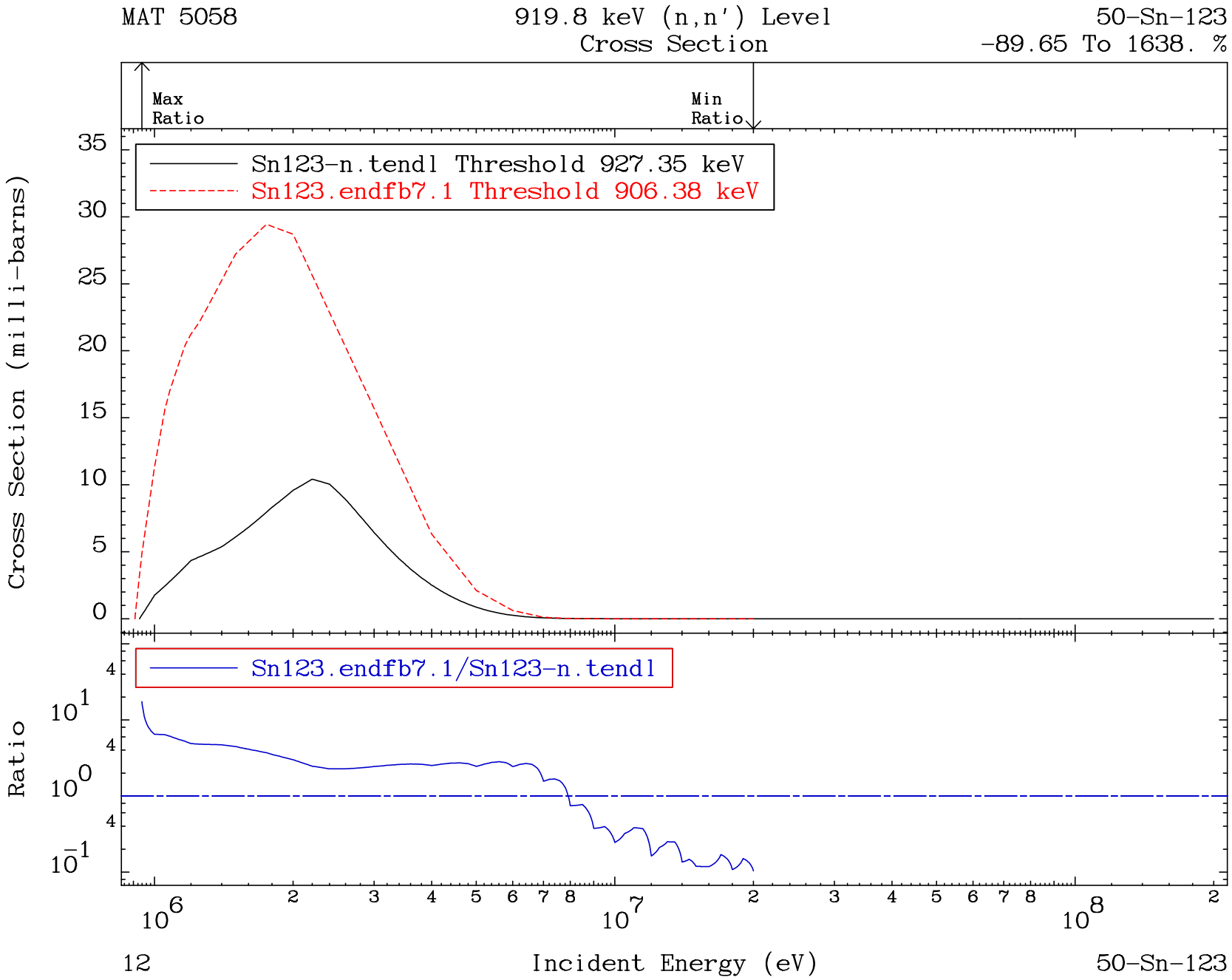

MAT 5058
(n,n') p
Cross Section
50-Sn-123
-100.0 To -45.58%
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 11.627 MeV
Sn123.endfb7.1 Threshold 13.000 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
50-Sn-123

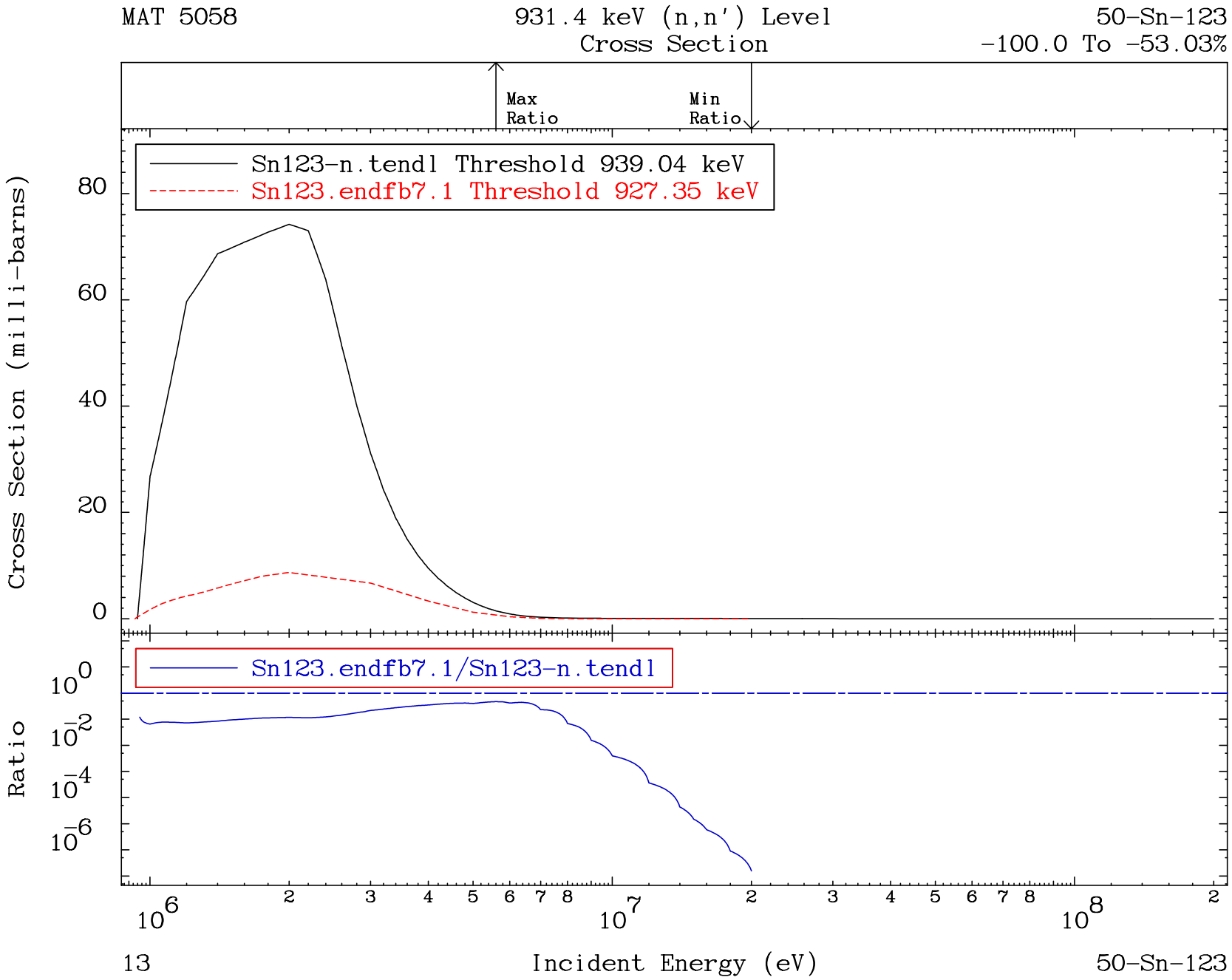

MAT 5058
24.60 keV (n,n') Level
Cross Section
50-Sn-123
-92.90 To 65.47 %
Max Ratio
Min Ratio
Sn123-n.tendl Threshold 24.802 keV
Sn123.endfb7.1 Threshold 24.802 keV
Cross Section (milli-barns)
40
30
20
10
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-1
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
50-Sn-123

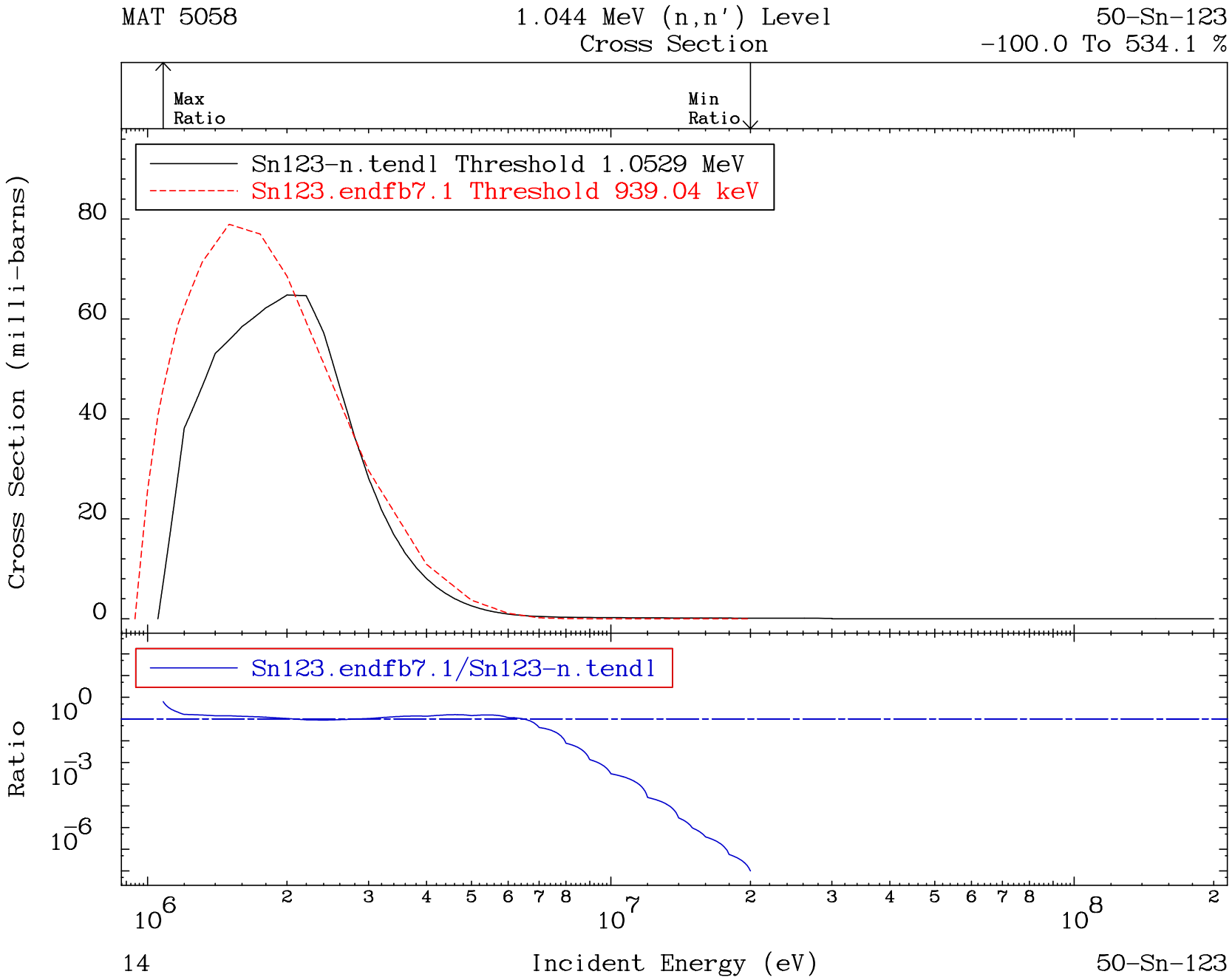

MAT 5058
150.4 keV (n,n') Level
Cross Section
50-Sn-123
-92.86 To 65.40 %
Max Ratio
Min Ratio
Sn123-n.tendl Threshold 151.63 keV
Sn123.endfb7.1 Threshold 151.63 keV
Cross Section (milli-barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
9
50-Sn-123

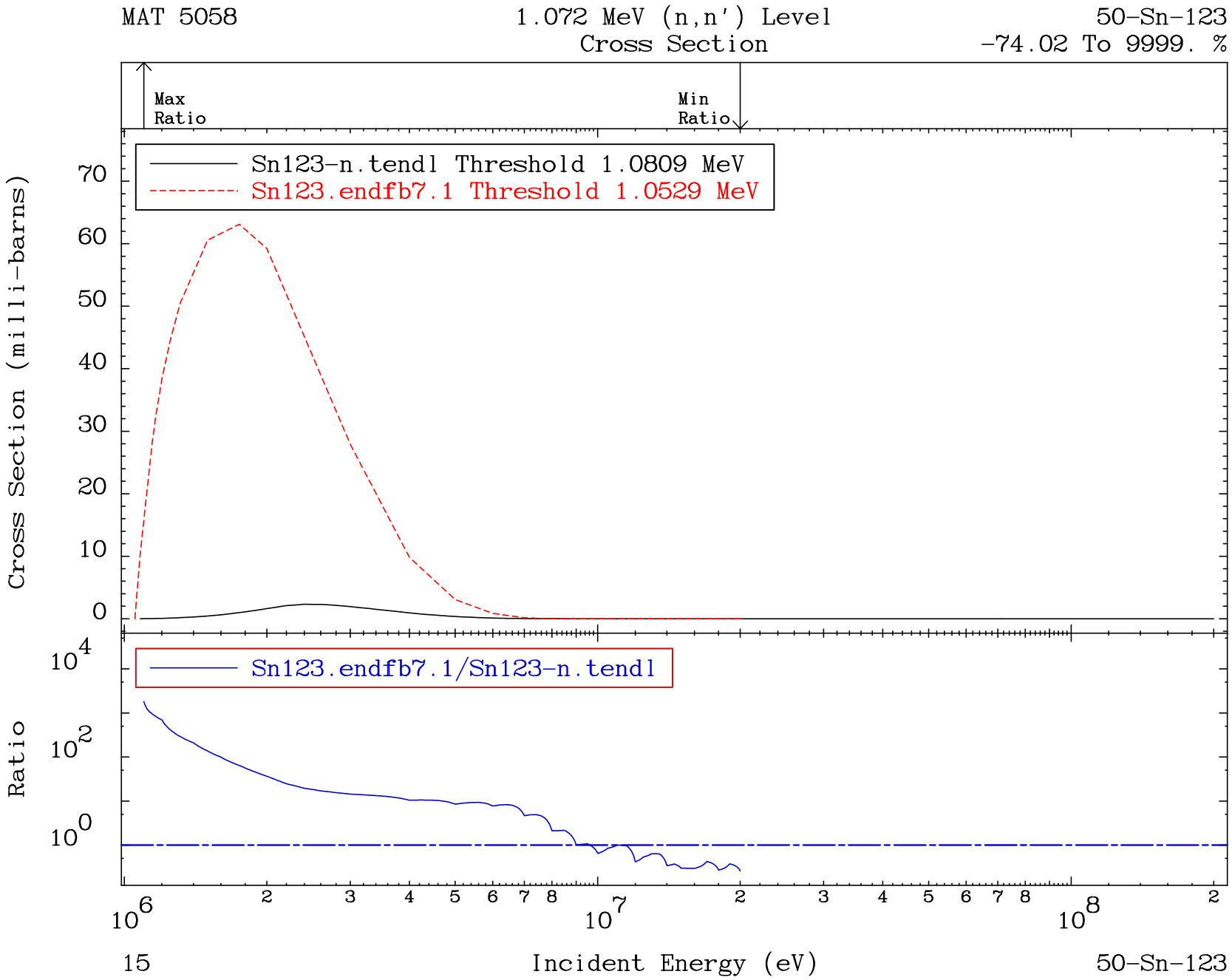

MAT 5058
618.8 keV (n,n') Level
Cross Section
50-Sn-123
-100.0 To 44.10 %
Max Ratio
Min Ratio
Sn123-n.tendl Threshold 623.89 keV
Sn123.endfb7.1 Threshold 623.89 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-3
10^-6
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
10
Incident Energy (eV)
50-Sn-123

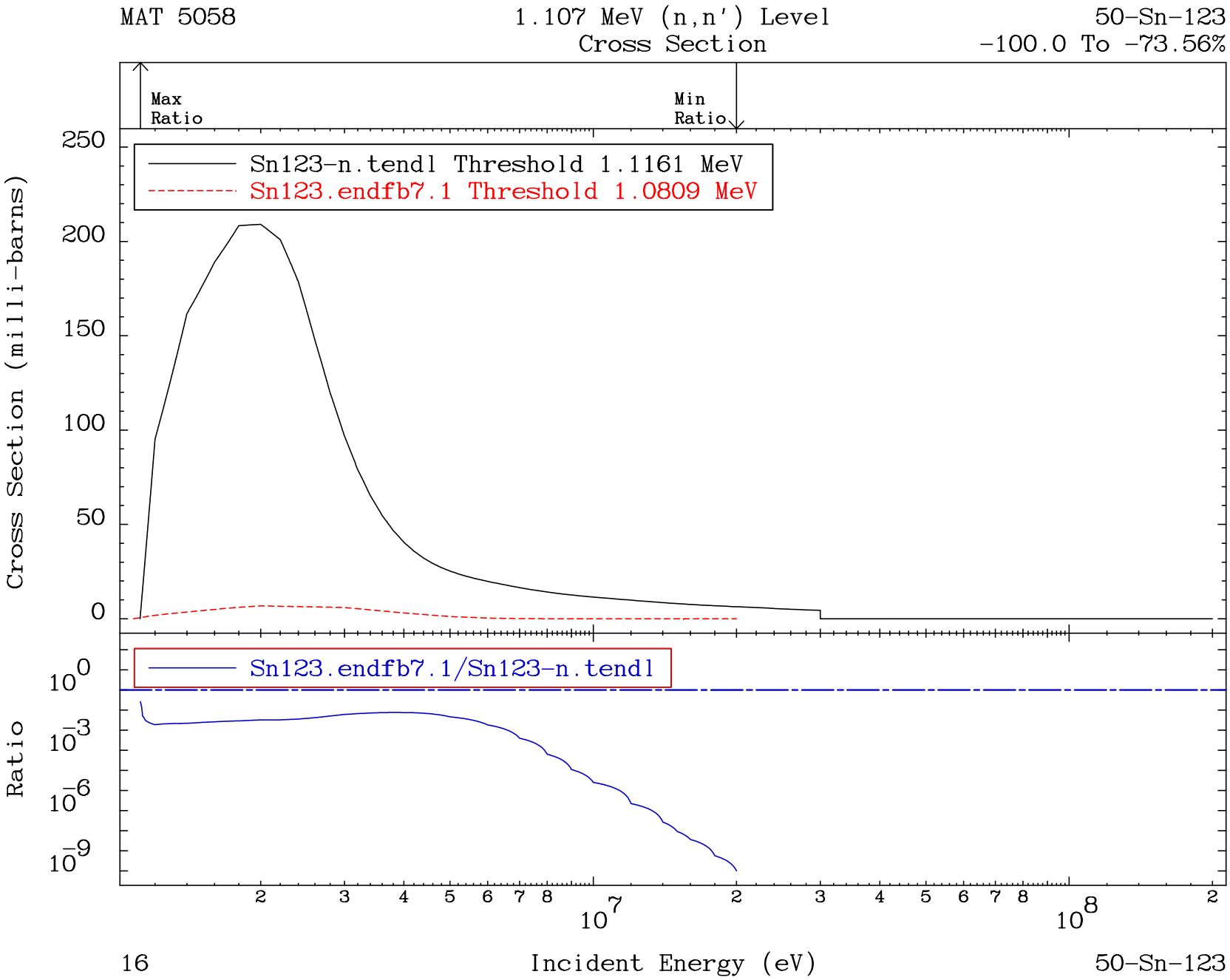

MAT 5058
870.2 keV (n,n') Level
Cross Section
50-Sn-123
-92.88 To 66.54 %
Max Ratio
Min Ratio
Sn123-n.tendl Threshold 877.34 keV
Sn123.endfb7.1 Threshold 877.34 keV
Cross Section (milli-barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
11
50-Sn-123

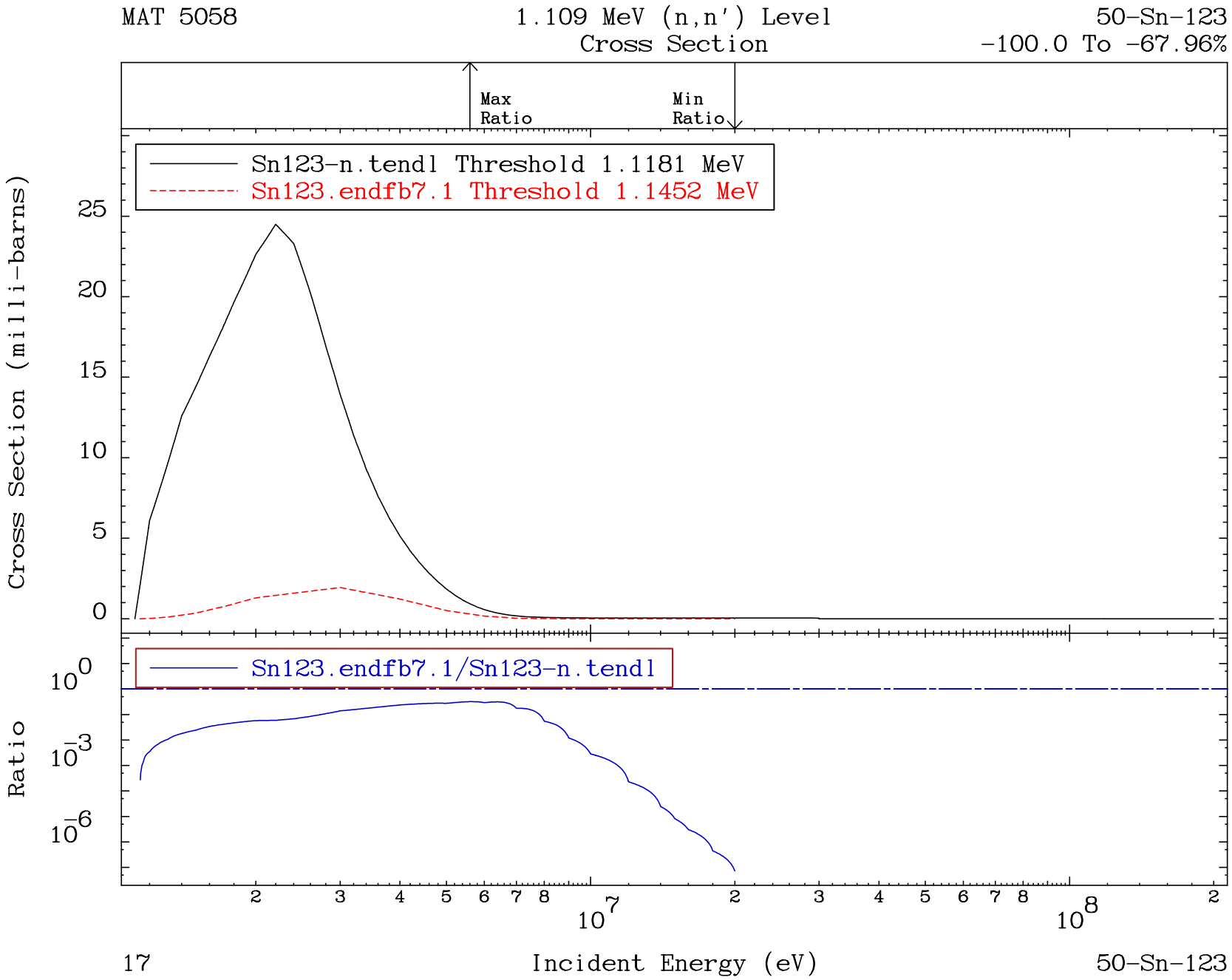

MAT 5058
919.8 keV (n,n') Level
Cross Section
50-Sn-123
-89.65 To 1638. %
Max Ratio
Min Ratio
Sn123-n.tendl Threshold 927.35 keV
Sn123.endfb7.1 Threshold 906.38 keV
Cross Section (milli-barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
12
50-Sn-123

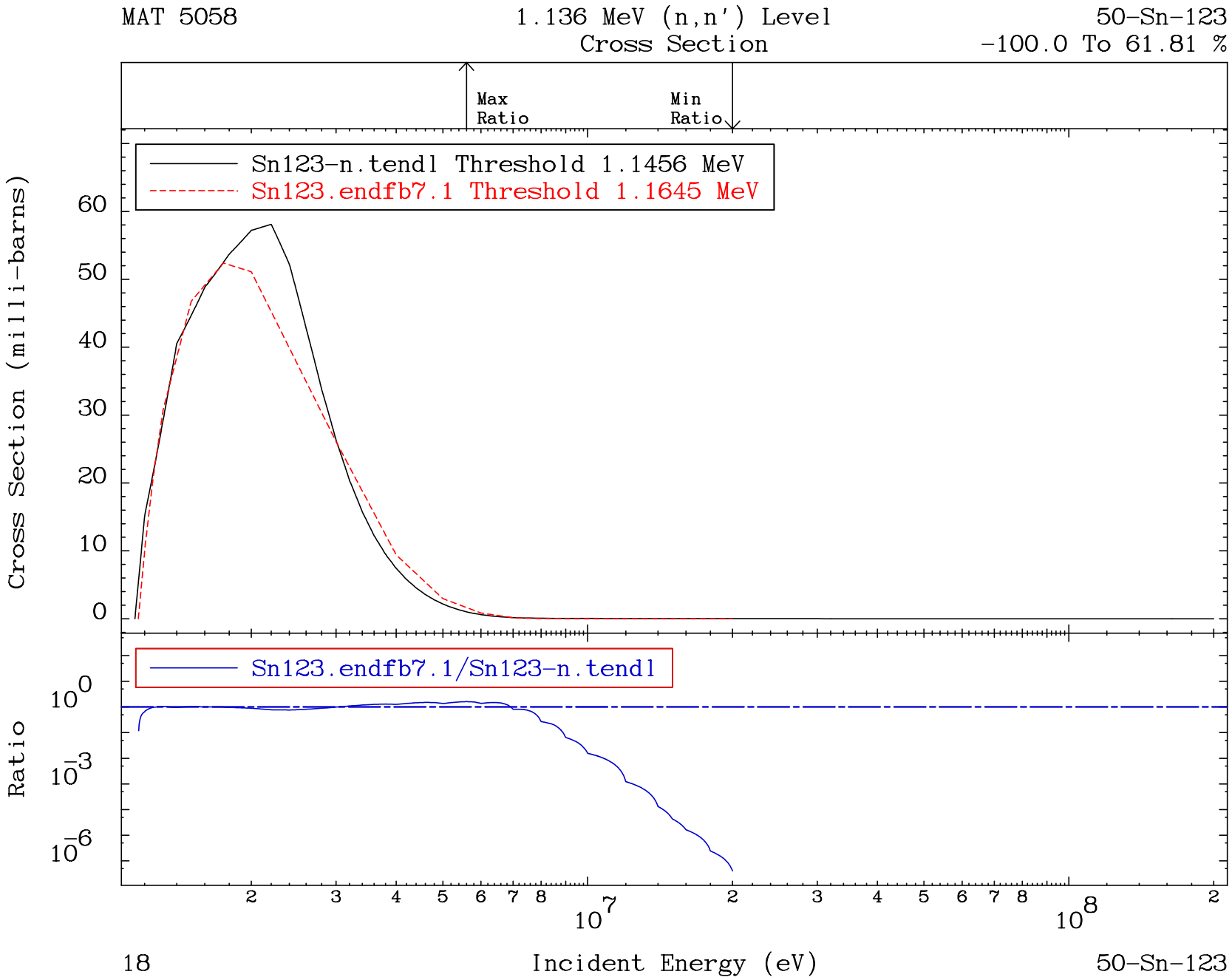

MAT 5058
931.4 keV (n,n') Level
Cross Section
50-Sn-123
-100.0 To -53.03%
Max Ratio
Min Ratio
Sn123-n.tendl Threshold 939.04 keV
Sn123.endfb7.1 Threshold 927.35 keV
Cross Section (milli-barns)
80
60
40
20
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-2
10^-4
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
50-Sn-123

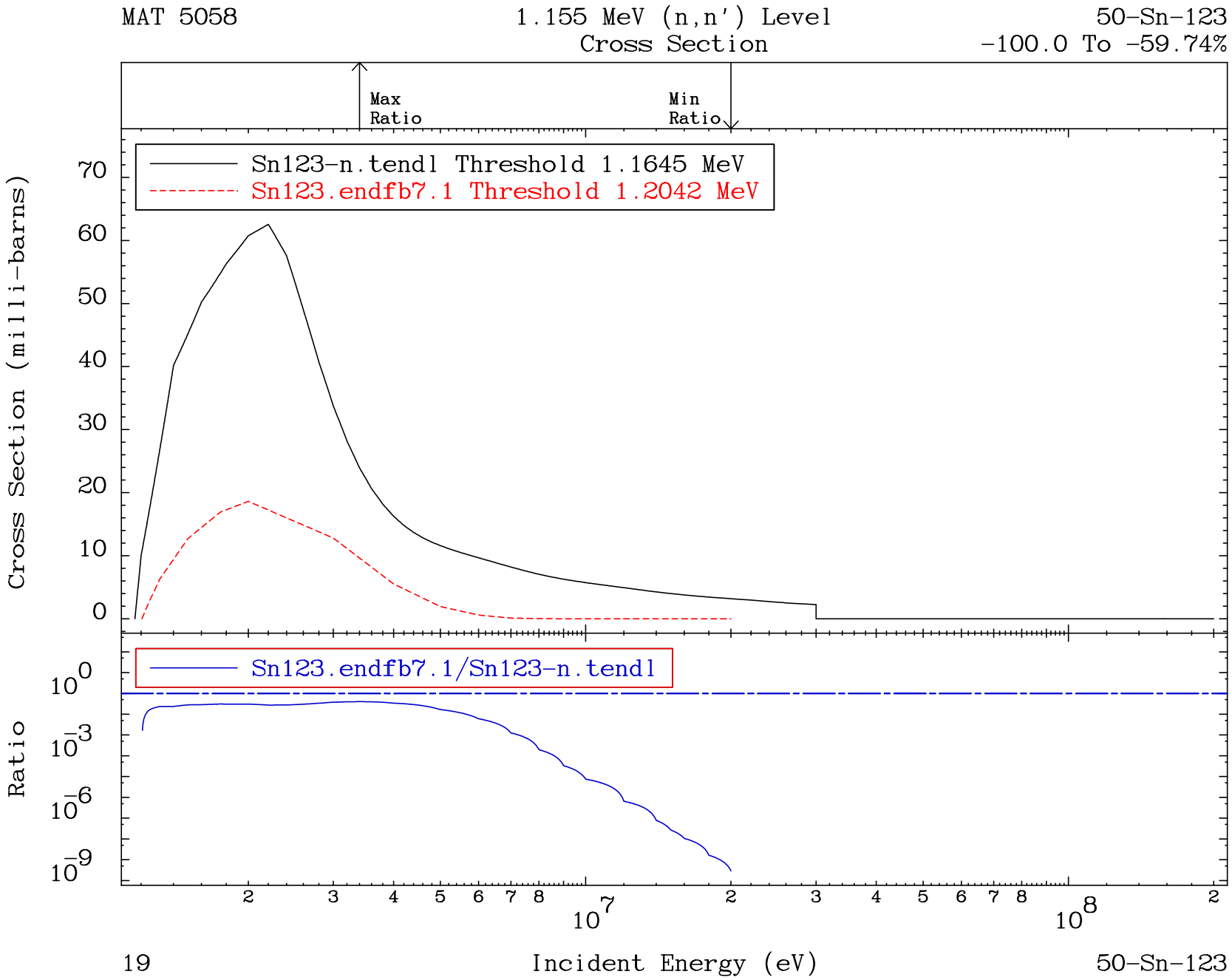

MAT 5058
1.044 MeV (n,n') Level
Cross Section
50-Sn-123
-100.0 To 534.1 %
Max
Ratio
Min
Ratio
Sn123-n.tendl Threshold 1.0529 MeV
Sn123.endfb7.1 Threshold 939.04 keV
Cross Section (milli-barns)
80
60
40
20
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-3
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
50-Sn-123

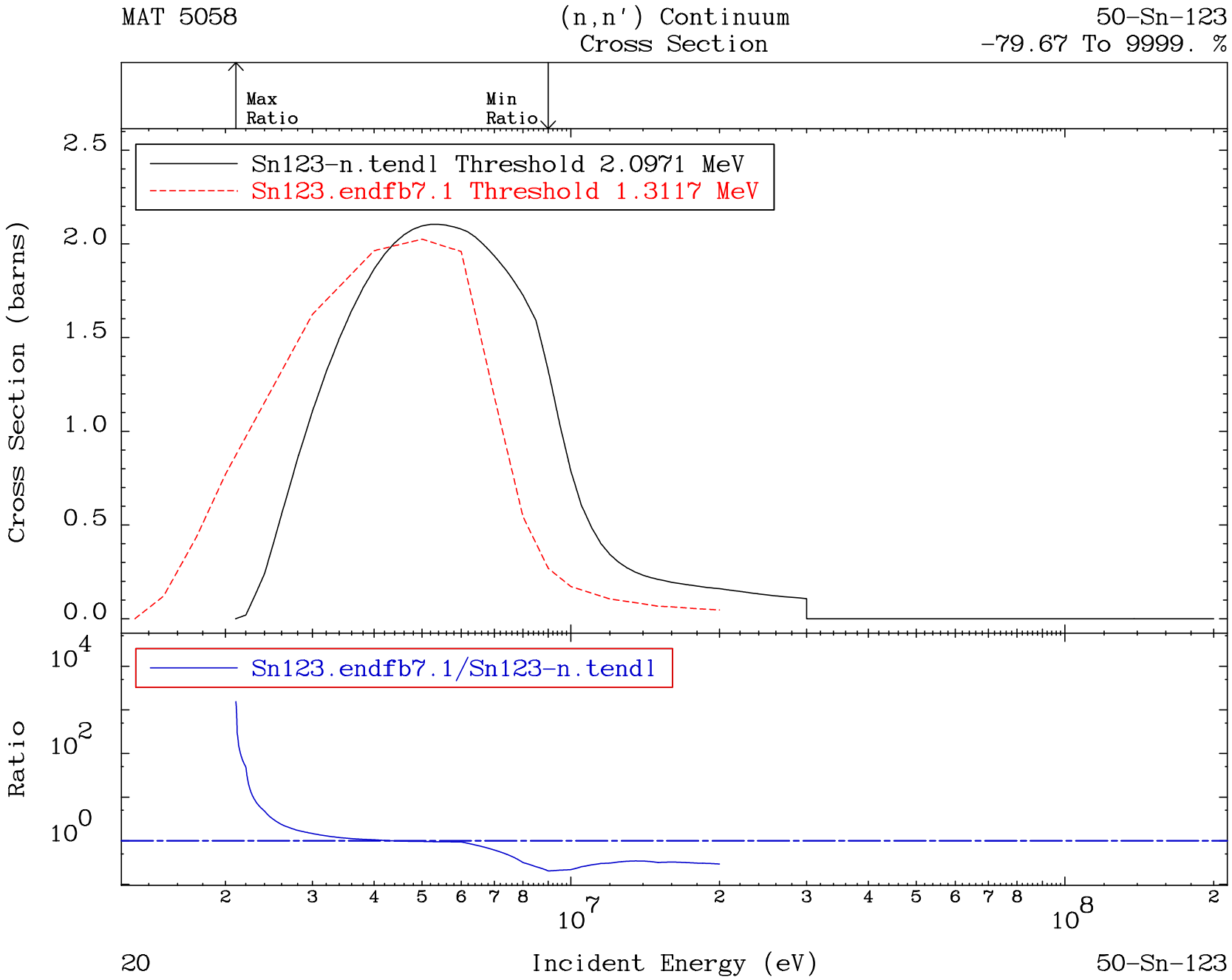

MAT 5058
1.072 MeV (n,n') Level
Cross Section
50-Sn-123
-74.02 To 9999. %
Max Ratio
Min Ratio
Sn123-n.tendl Threshold 1.0809 MeV
Sn123.endfb7.1 Threshold 1.0529 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^4
10^2
10^0
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
50-Sn-123

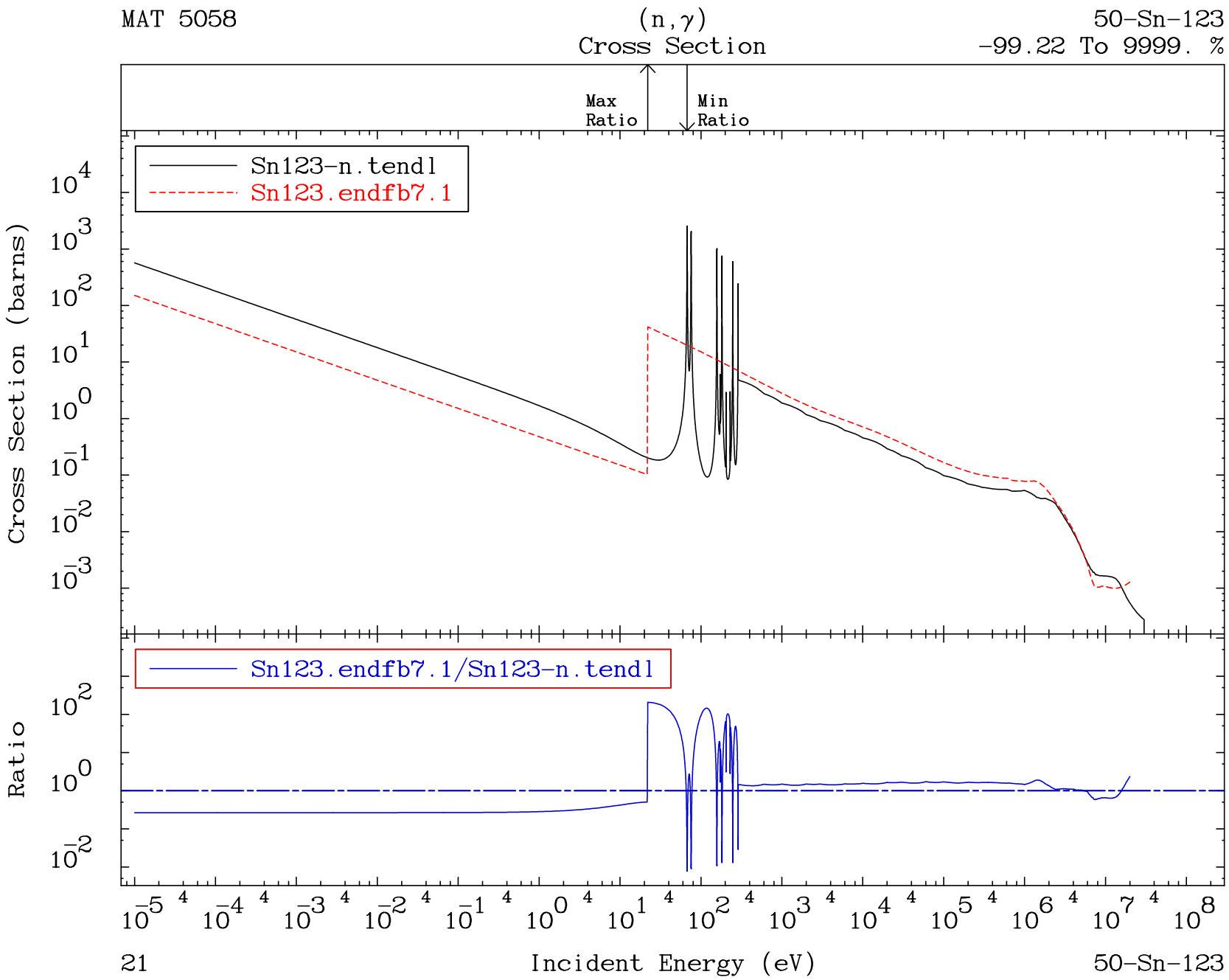

MAT 5058
1.107 MeV (n,n') Level
Cross Section
50-Sn-123
-100.0 To -73.56%
Max Ratio
Min Ratio
Sn123-n.tendl Threshold 1.1161 MeV
Sn123.endfb7.1 Threshold 1.0809 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
50-Sn-123

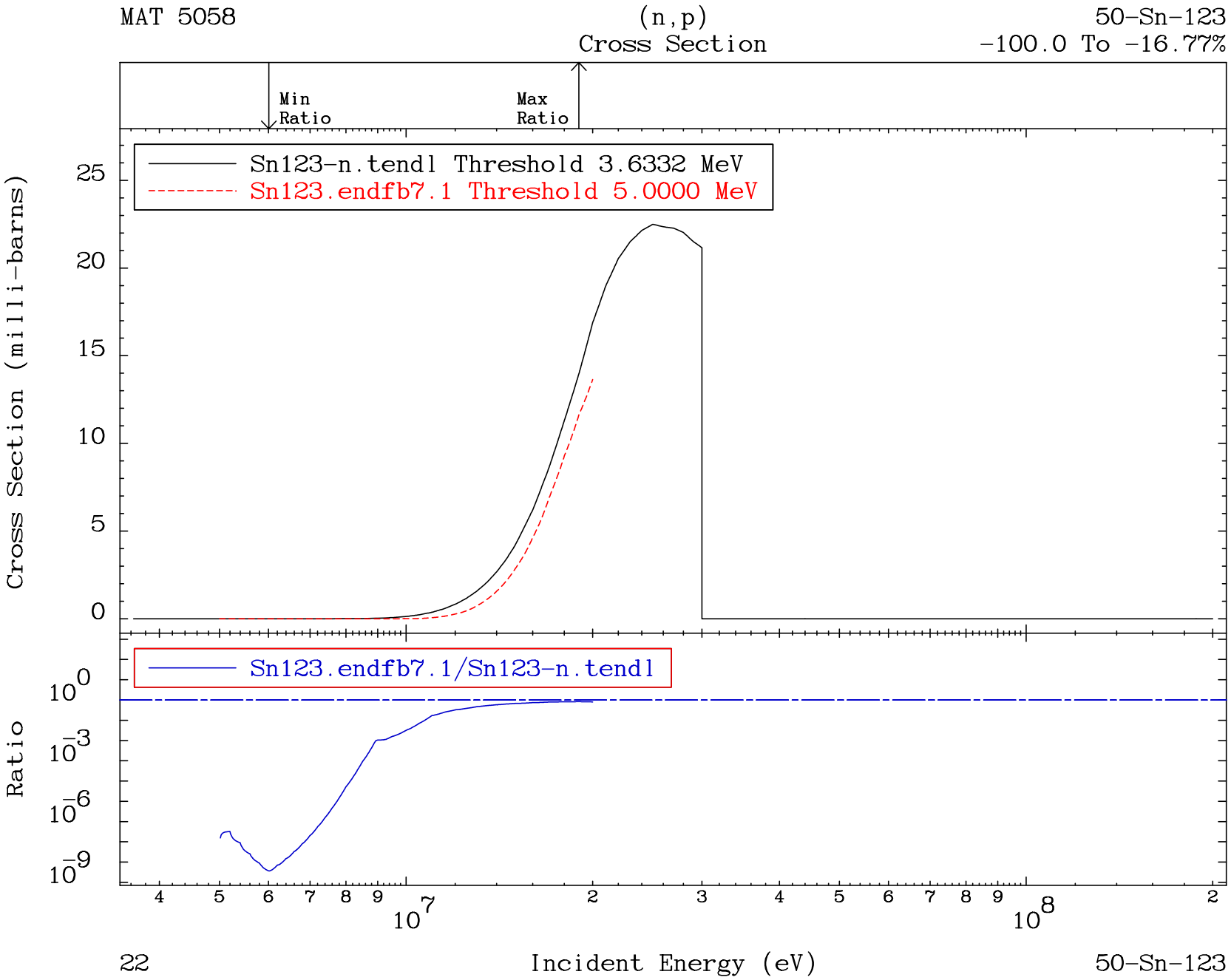

MAT 5058
1.109 MeV (n,n') Level
Cross Section
50-Sn-123
-100.0 To -67.96%
Max Ratio
Min Ratio
Sn123-n.tendl Threshold 1.1181 MeV
Sn123.endfb7.1 Threshold 1.1452 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
50-Sn-123

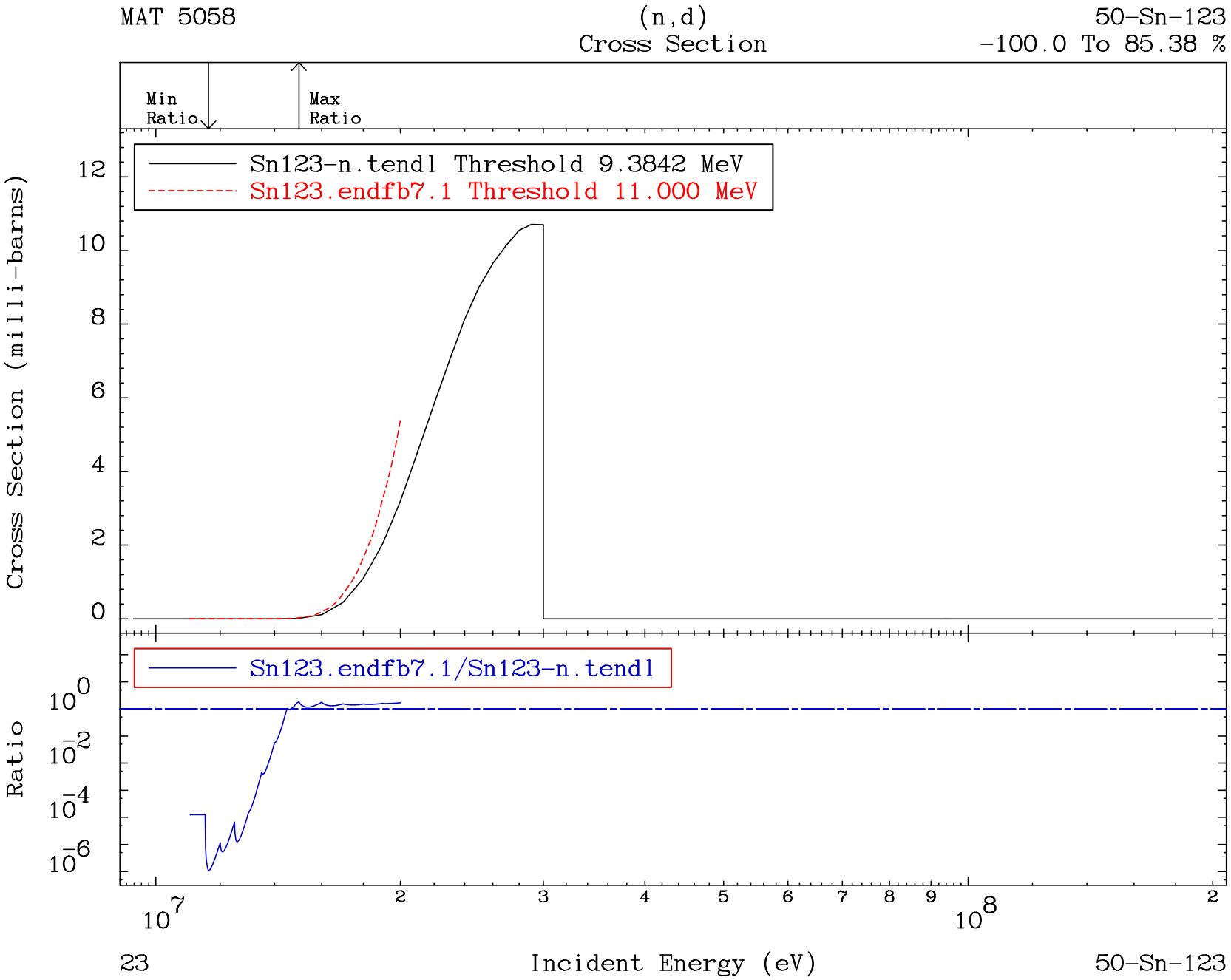

MAT 5058
1.136 MeV (n,n') Level
Cross Section
50-Sn-123
-100.0 To 61.81 %
Max Ratio
Min Ratio
Sn123-n.tendl Threshold 1.1456 MeV
Sn123.endfb7.1 Threshold 1.1645 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
50-Sn-123

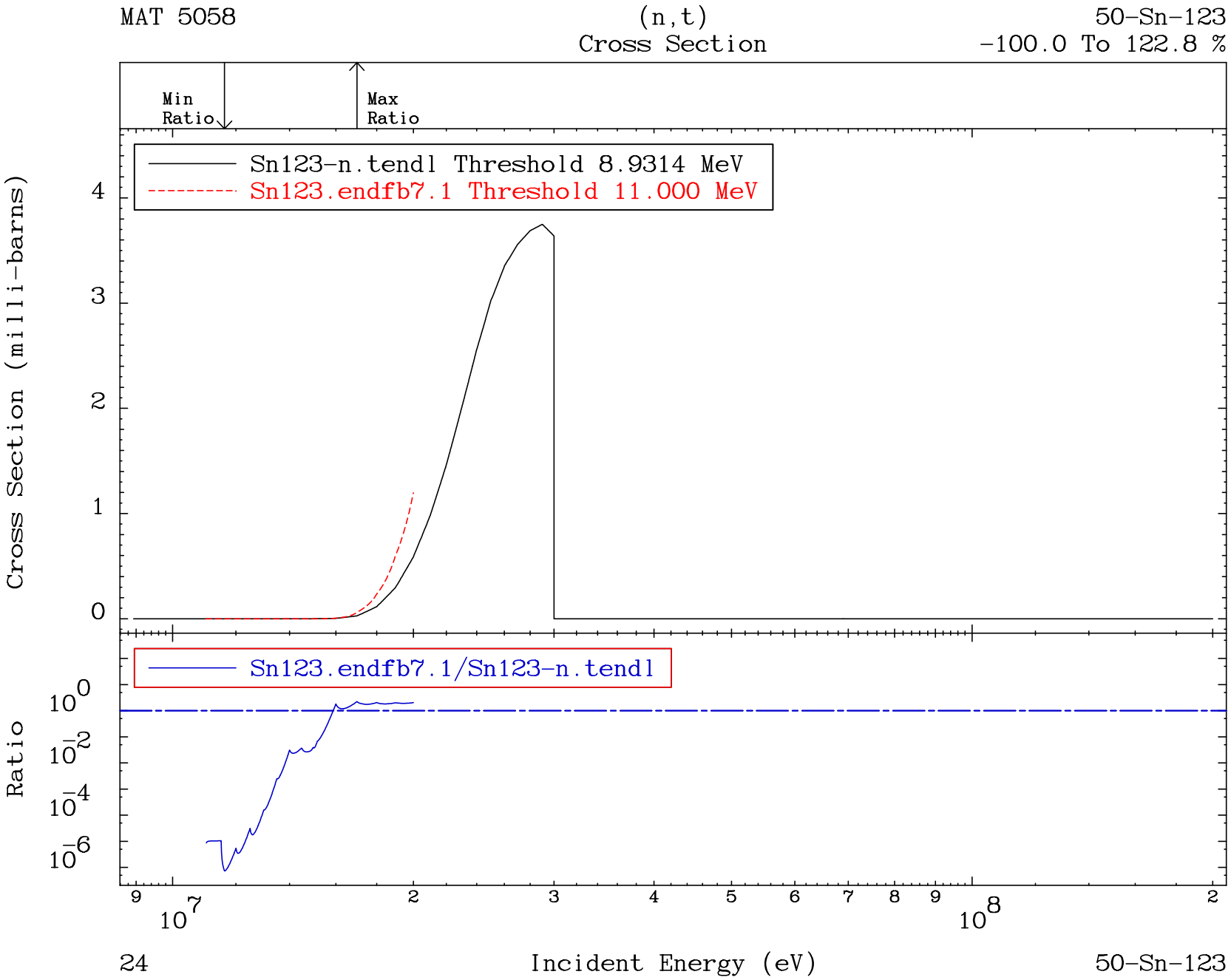

MAT 5058
1.155 MeV (n,n') Level
Cross Section
50-Sn-123
-100.0 To -59.74%
Max
Ratio
Min
Ratio
Sn123-n.tendl Threshold 1.1645 MeV
Sn123.endfb7.1 Threshold 1.2042 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
50-Sn-123

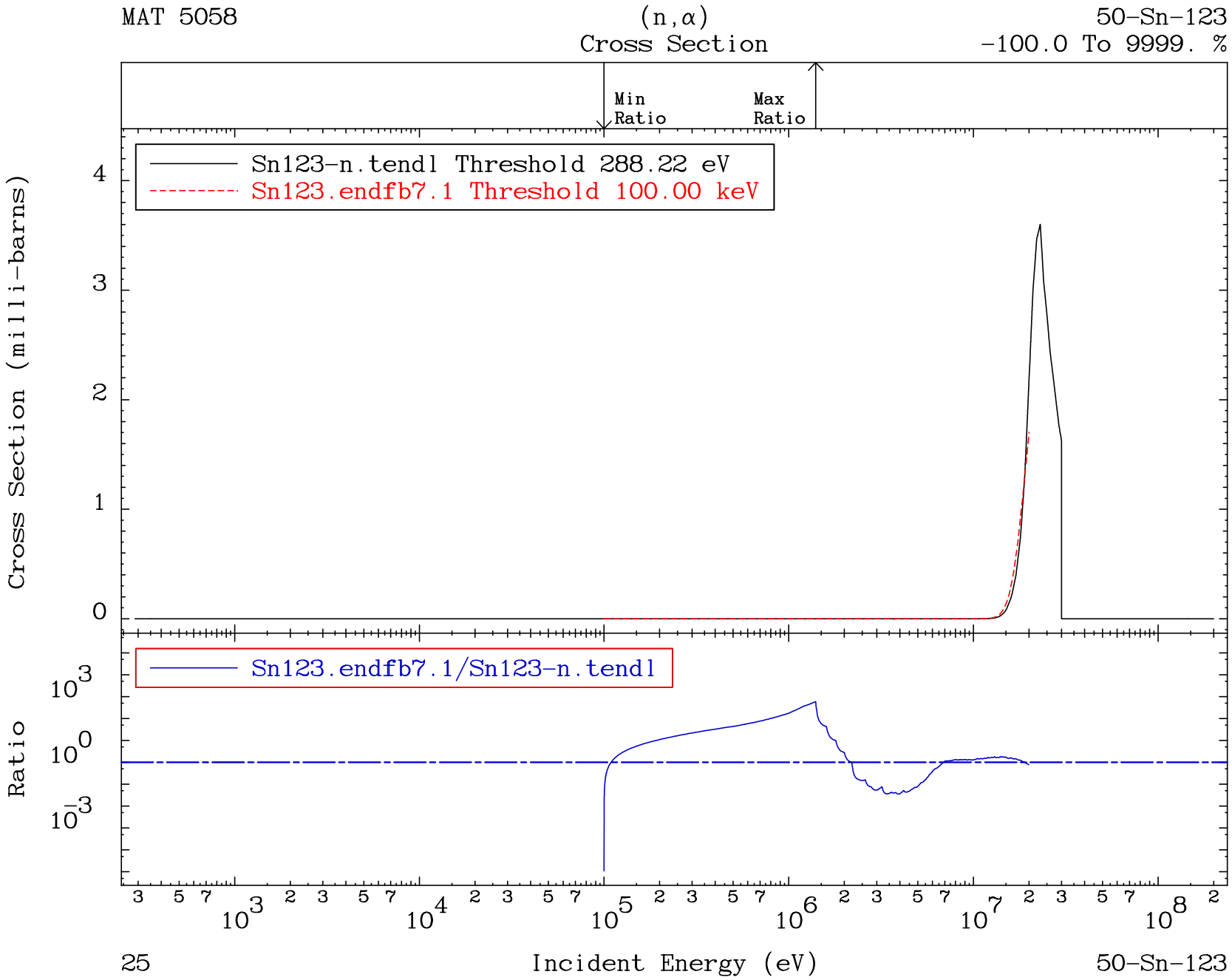

MAT 5058
(n,n') Continuum
Cross Section
50-Sn-123
-79.67 To 9999. %
Max Ratio
Min Ratio
Sn123-n.tendl Threshold 2.0971 MeV
Sn123.endfb7.1 Threshold 1.3117 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
50-Sn-123

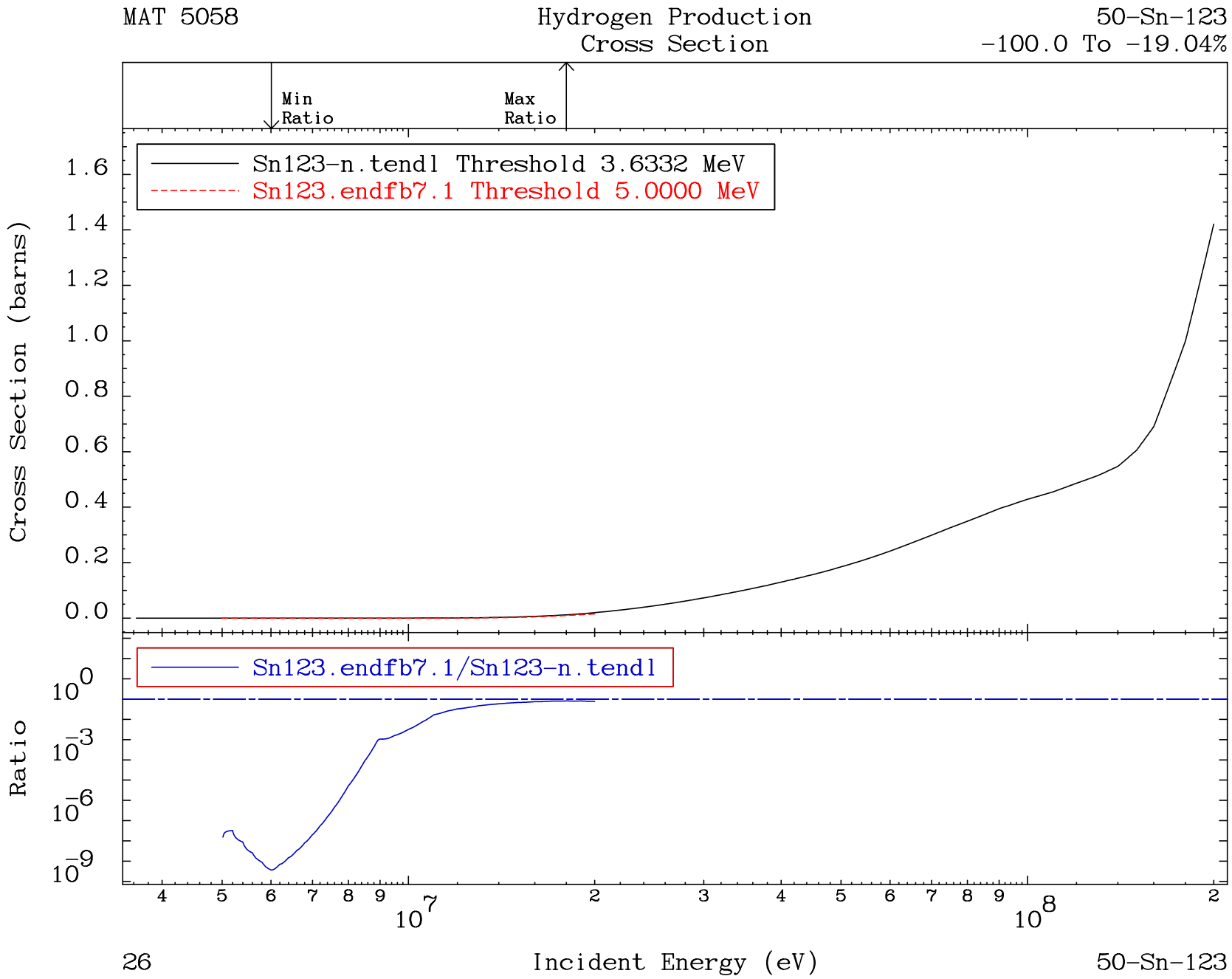

MAT 5058
(n,γ)
Cross Section
50-Sn-123
-99.22 To 9999. %
Max Ratio
Min Ratio
Sn123-n.tendl
Sn123.endfb7.1
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
21
50-Sn-123

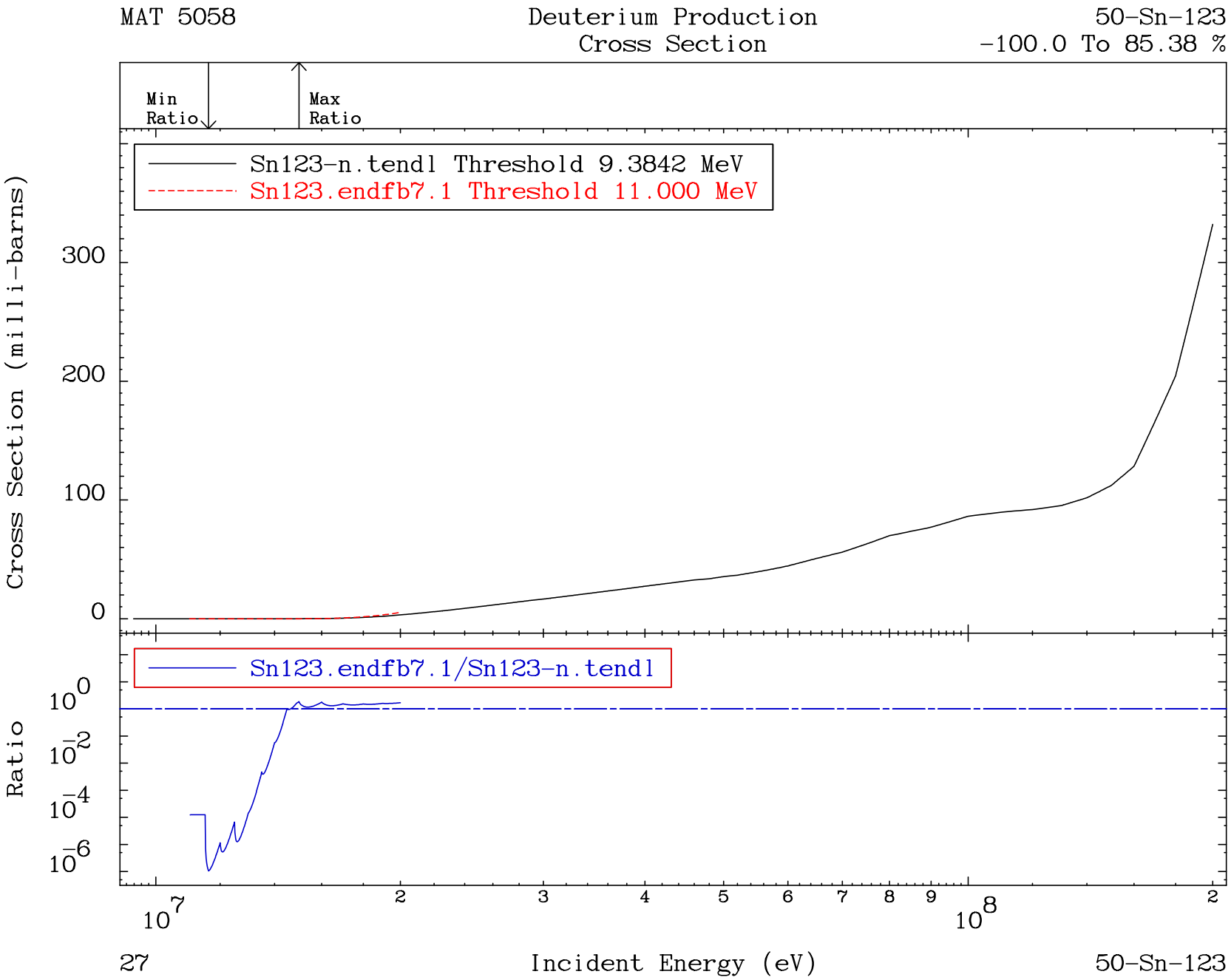

MAT 5058
(n,p)
Cross Section
50-Sn-123
-100.0 To -16.77%
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 3.6332 MeV
Sn123.endfb7.1 Threshold 5.0000 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
50-Sn-123

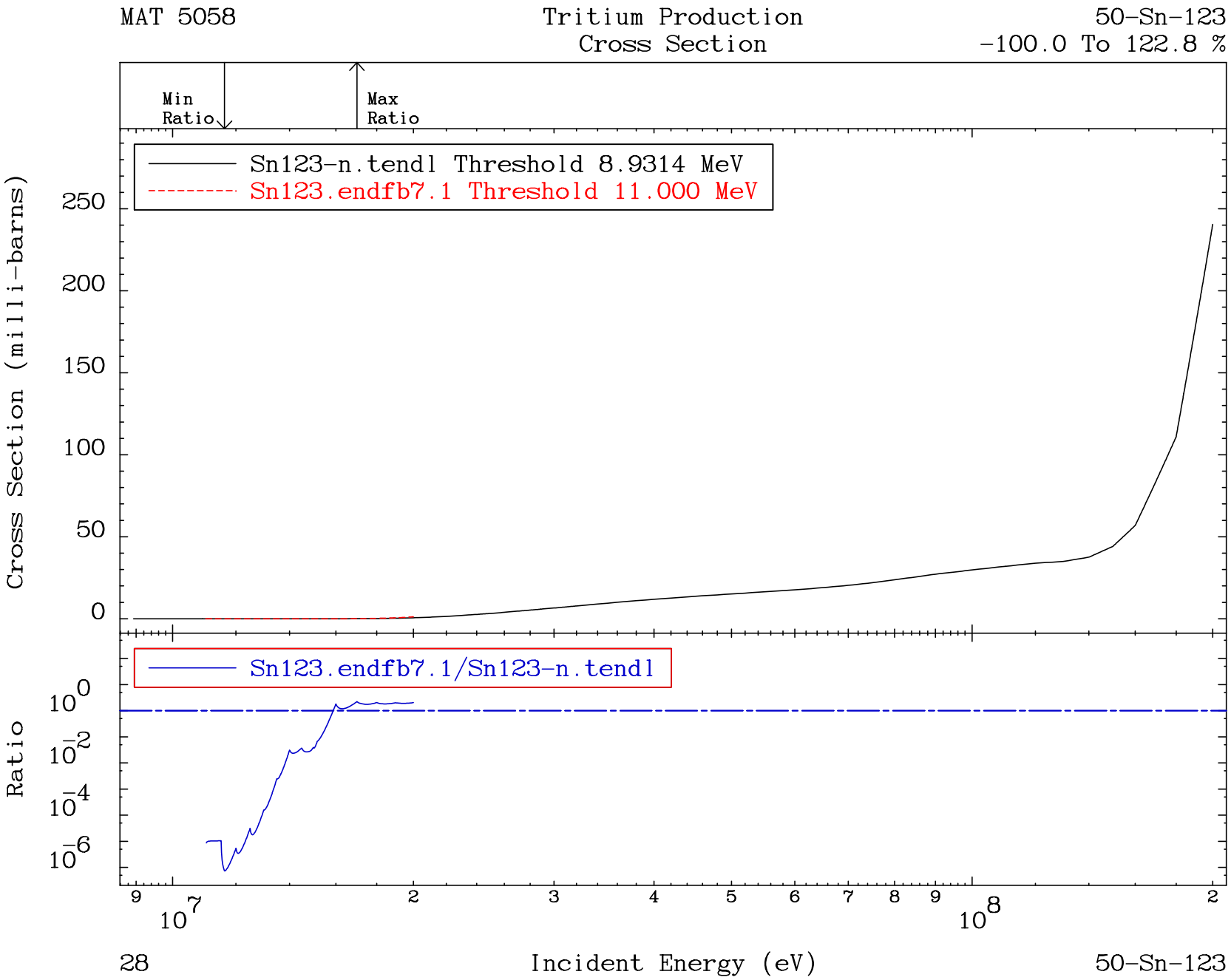

MAT 5058
(n,d)
Cross Section
50-Sn-123
-100.0 To 85.38 %
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 9.3842 MeV
Sn123.endfb7.1 Threshold 11.000 MeV
Cross Section (milli-barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
23
50-Sn-123

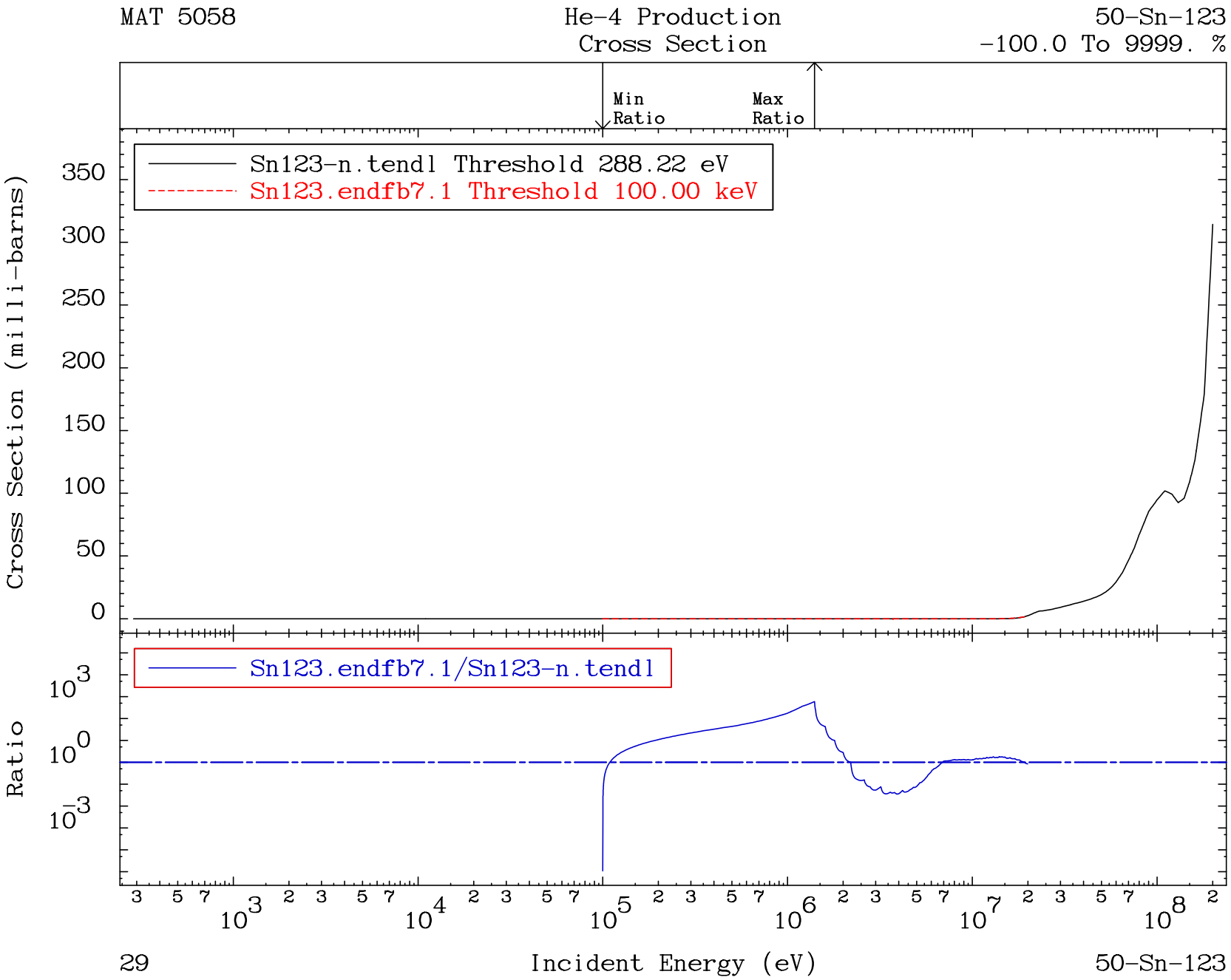

MAT 5058
(n,t)
Cross Section
50-Sn-123
-100.0 To 122.8 %
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 8.9314 MeV
Sn123.endfb7.1 Threshold 11.000 MeV
Cross Section (milli-barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
24
50-Sn-123

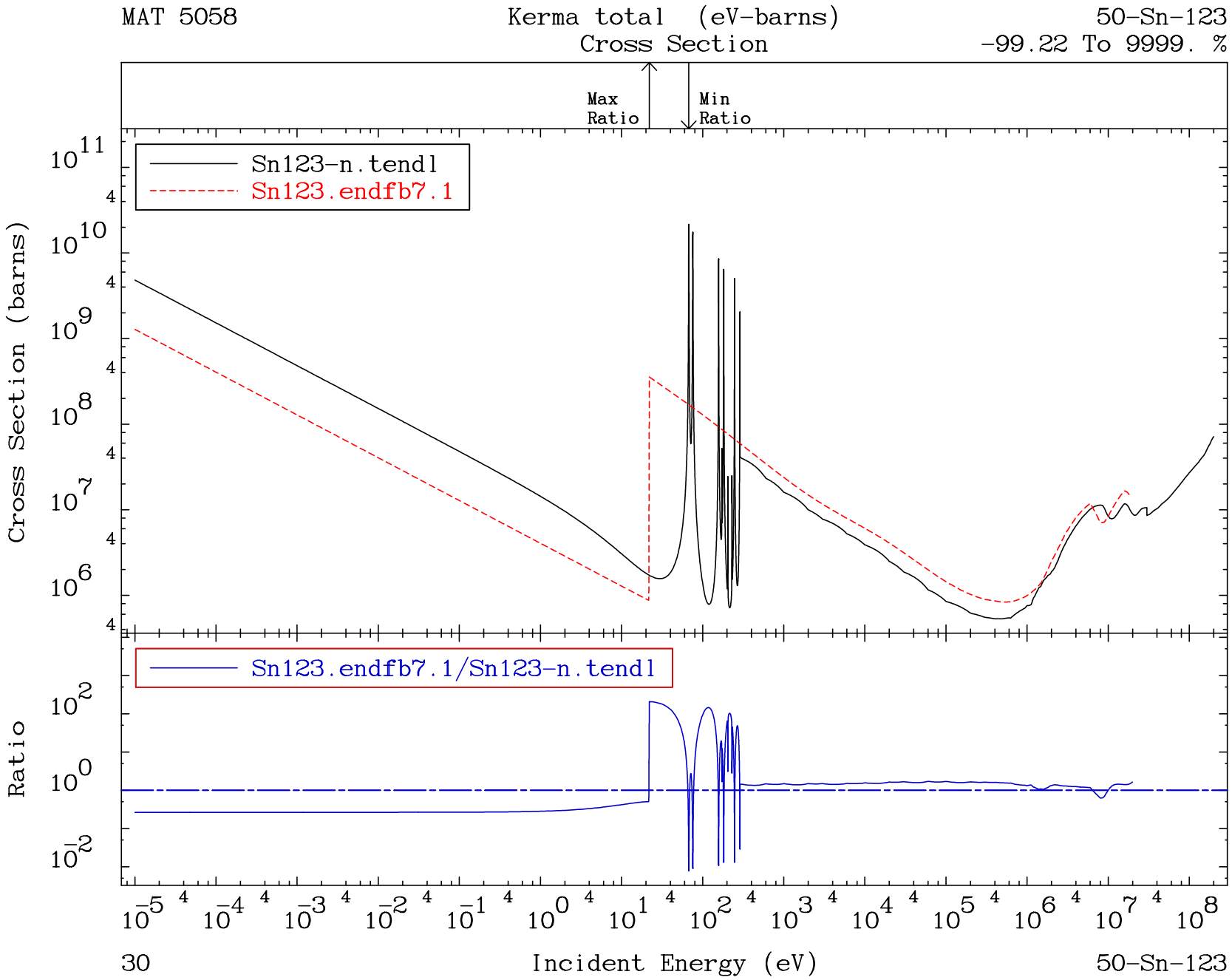

MAT 5058
(n,α)
Cross Section
50-Sn-123
-100.0 To 9999. %
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 288.22 eV
Sn123.endfb7.1 Threshold 100.00 keV
Cross Section (milli-barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
25
50-Sn-123

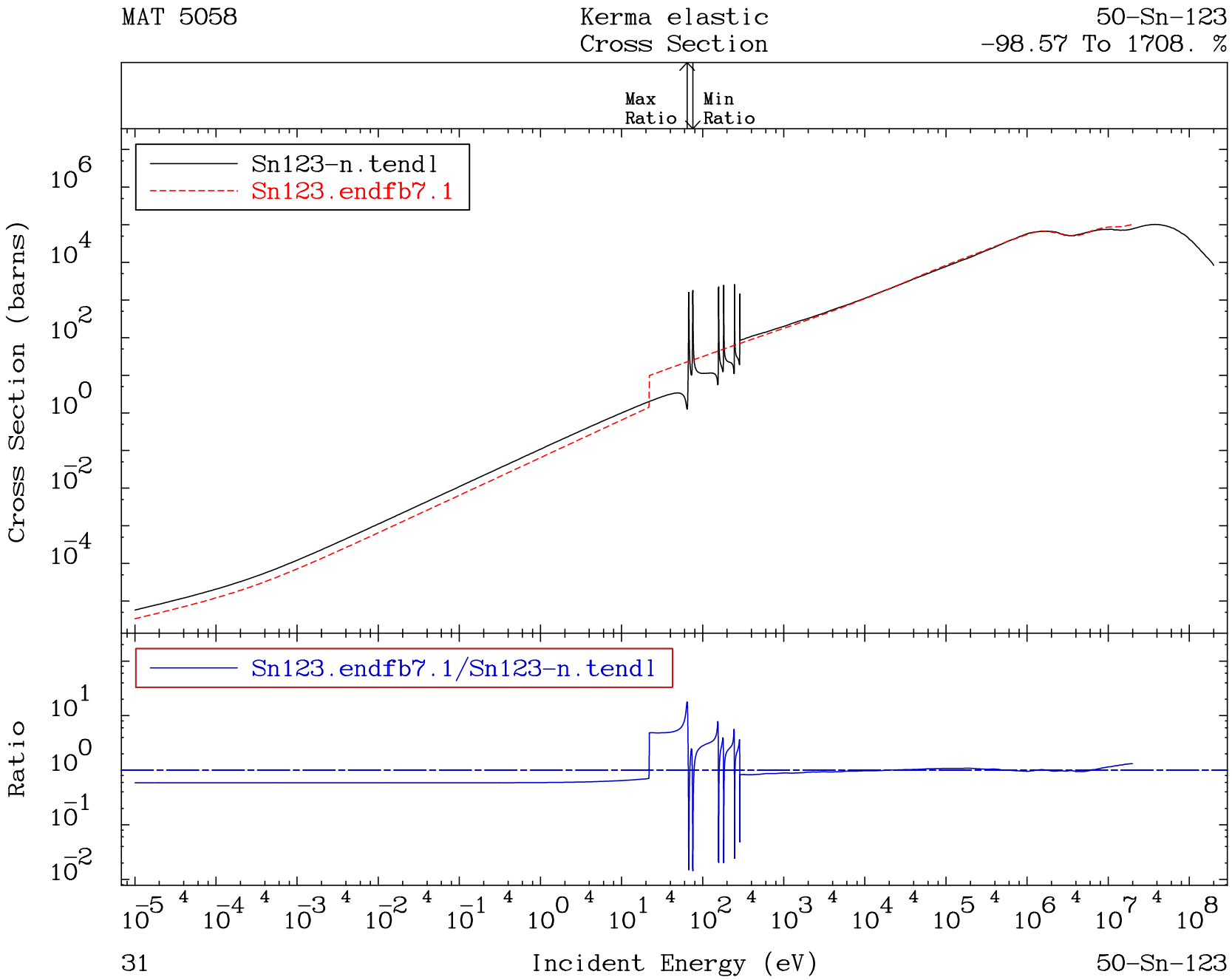

MAT 5058
Hydrogen Production
Cross Section
50-Sn-123
-100.0 To -19.04%
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 3.6332 MeV
Sn123.endfb7.1 Threshold 5.0000 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
50-Sn-123

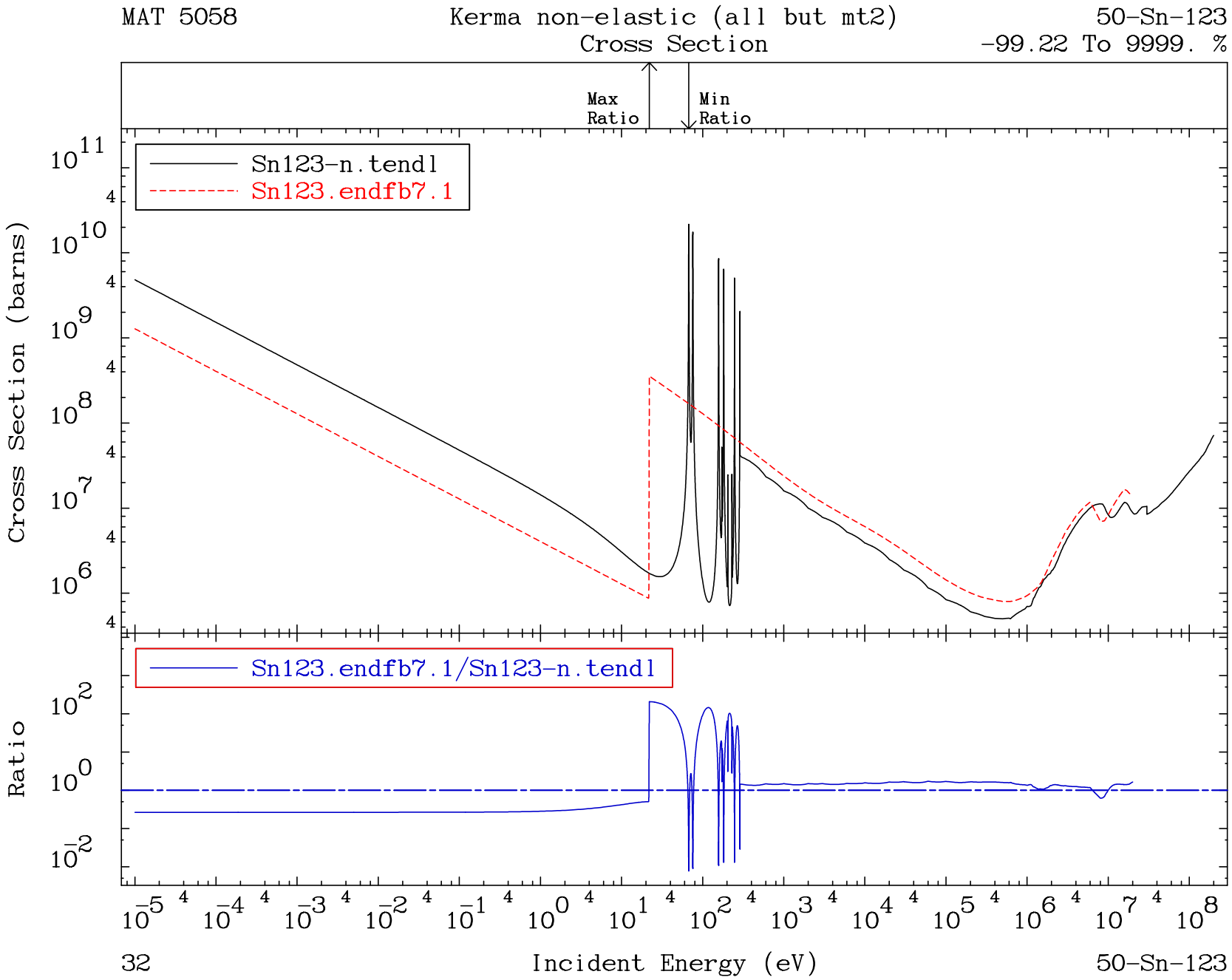

MAT 5058
Deuterium Production
Cross Section
50-Sn-123
-100.0 To 85.38 %
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 9.3842 MeV
Sn123.endfb7.1 Threshold 11.000 MeV
Cross Section (milli-barns)
300
200
100
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-2
10^-4
10^-6
10^7
2
3
4
5
6
7
8
9
10^8
2
27
Incident Energy (eV)
50-Sn-123

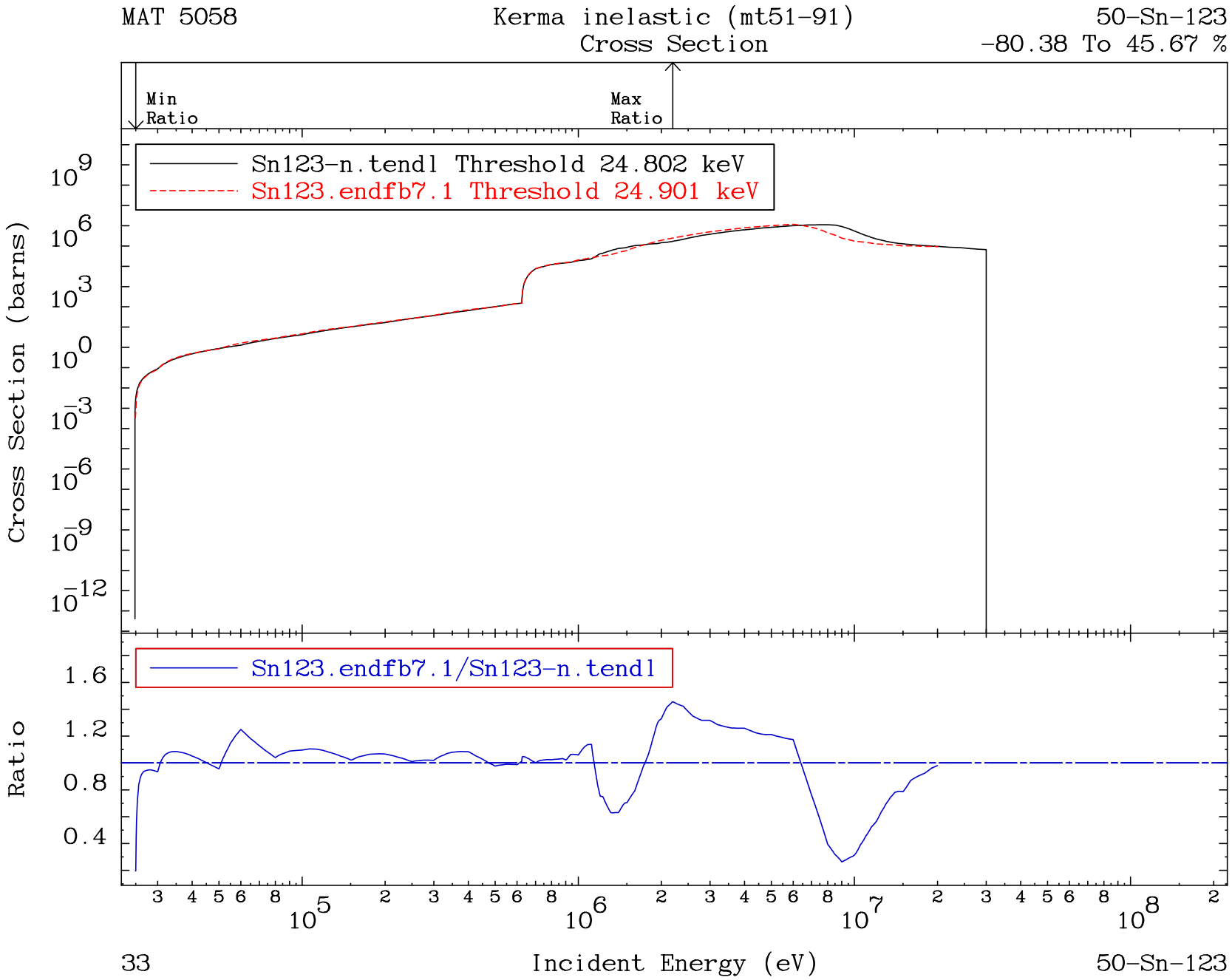

MAT 5058
Tritium Production
Cross Section
50-Sn-123
-100.0 To 122.8 %
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 8.9314 MeV
Sn123.endfb7.1 Threshold 11.000 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^0
10^-2
10^-4
10^-6
9
10^7
2
3
4
5
6
7
8
9
10^8
2
28
Incident Energy (eV)
50-Sn-123

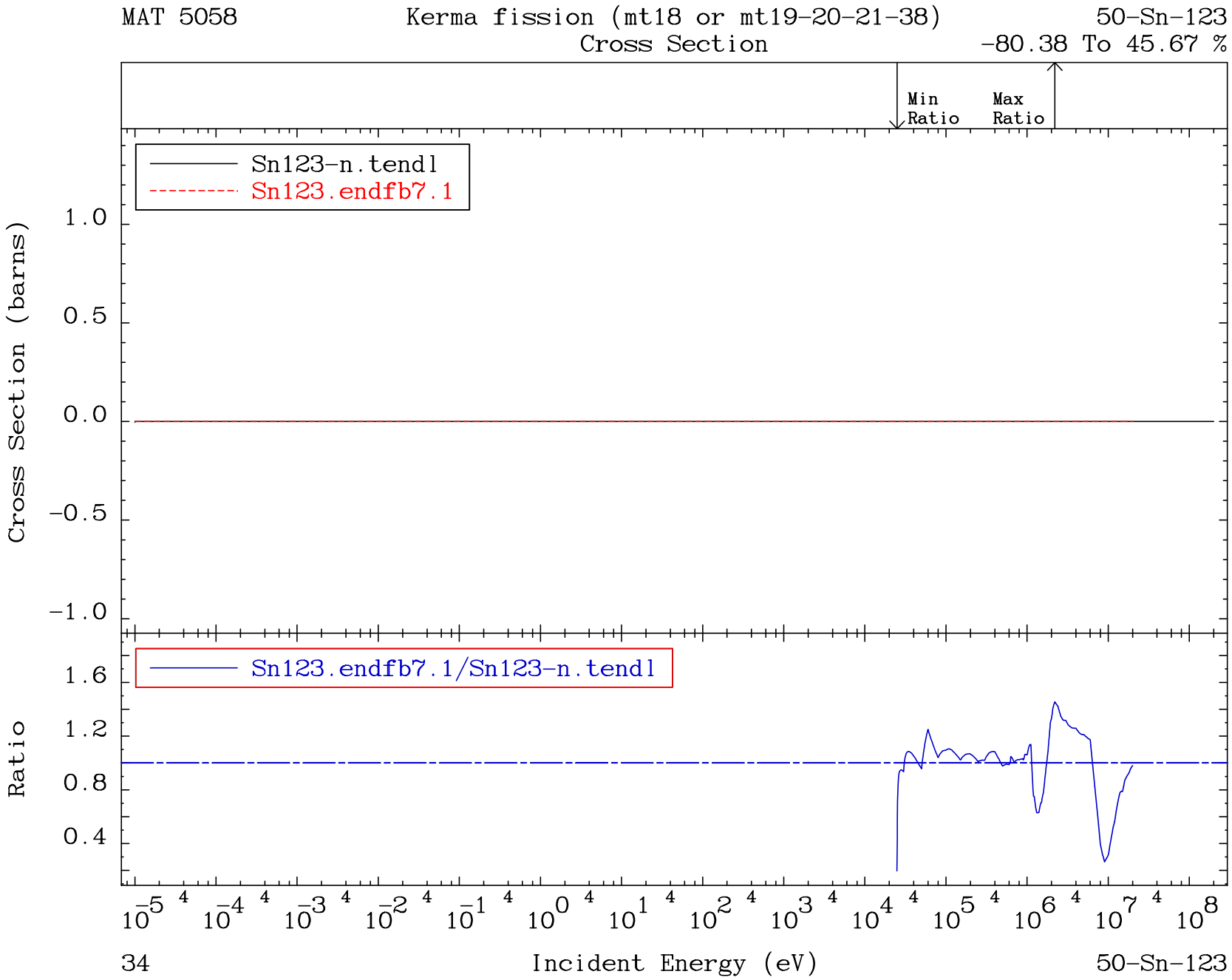

MAT 5058
He-4 Production
Cross Section
50-Sn-123
-100.0 To 9999. %
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 288.22 eV
Sn123.endfb7.1 Threshold 100.00 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^3
10^0
10^-3
3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
29
Incident Energy (eV)
50-Sn-123

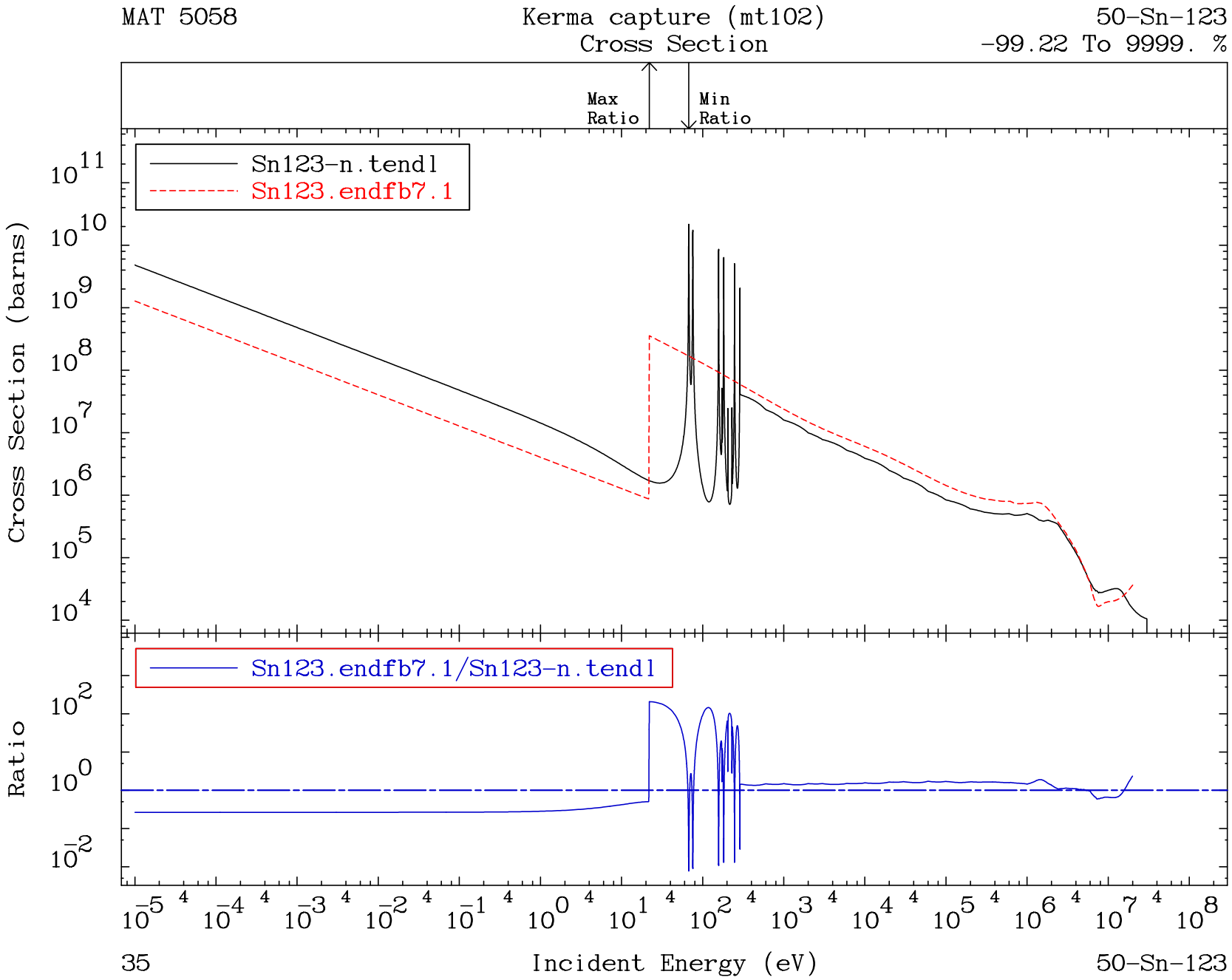

MAT 5058
Kerma total (eV-barns)
Cross Section
50-Sn-123
-99.22 To 9999. %
Max Ratio
Min Ratio
Sn123-n.tendl
Sn123.endfb7.1
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
30
50-Sn-123

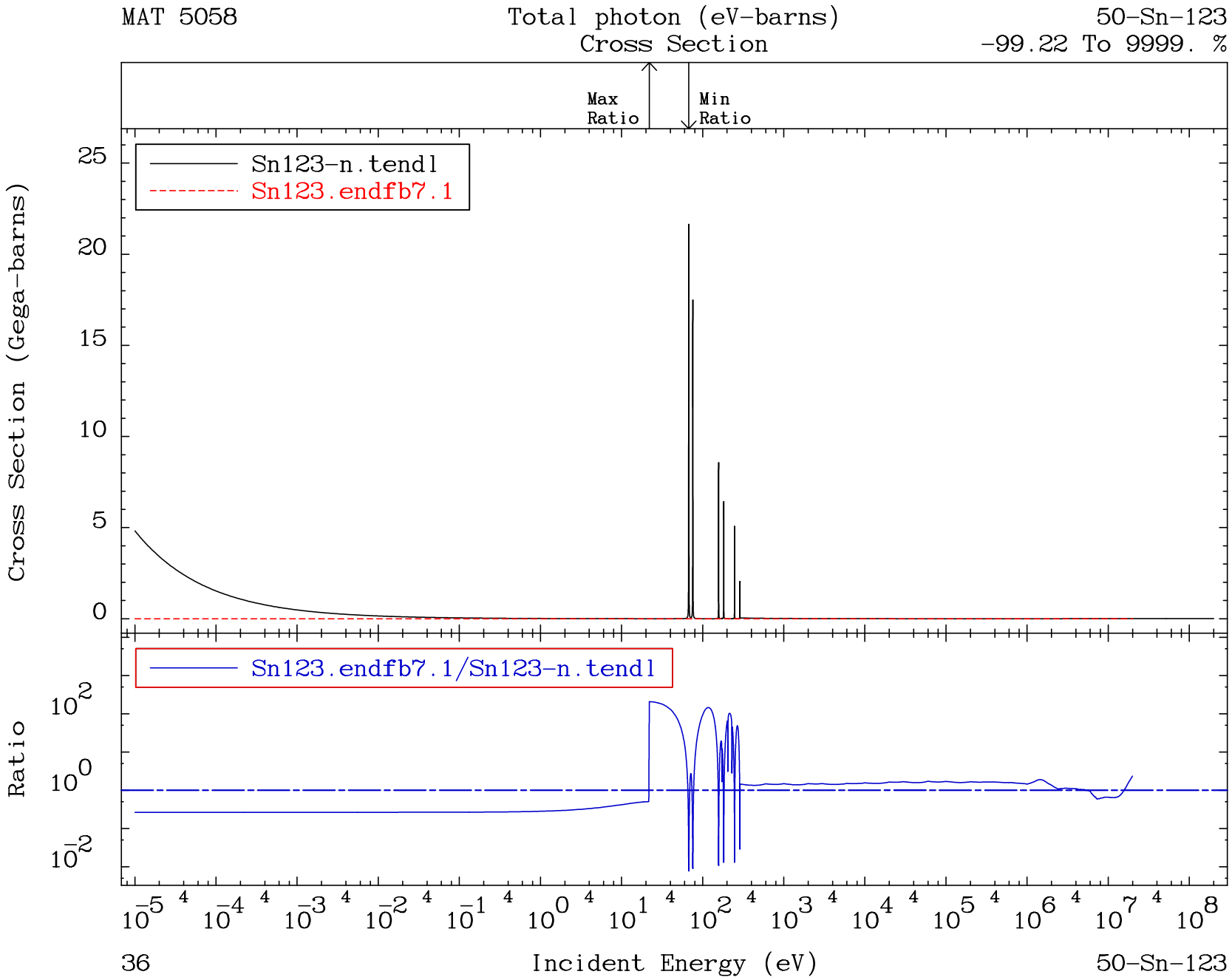

MAT 5058
Kerma elastic
Cross Section
50-Sn-123
-98.57 To 1708. %
Max Ratio
Min Ratio
Sn123-n.tendl
Sn123.endfb7.1
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
31
50-Sn-123

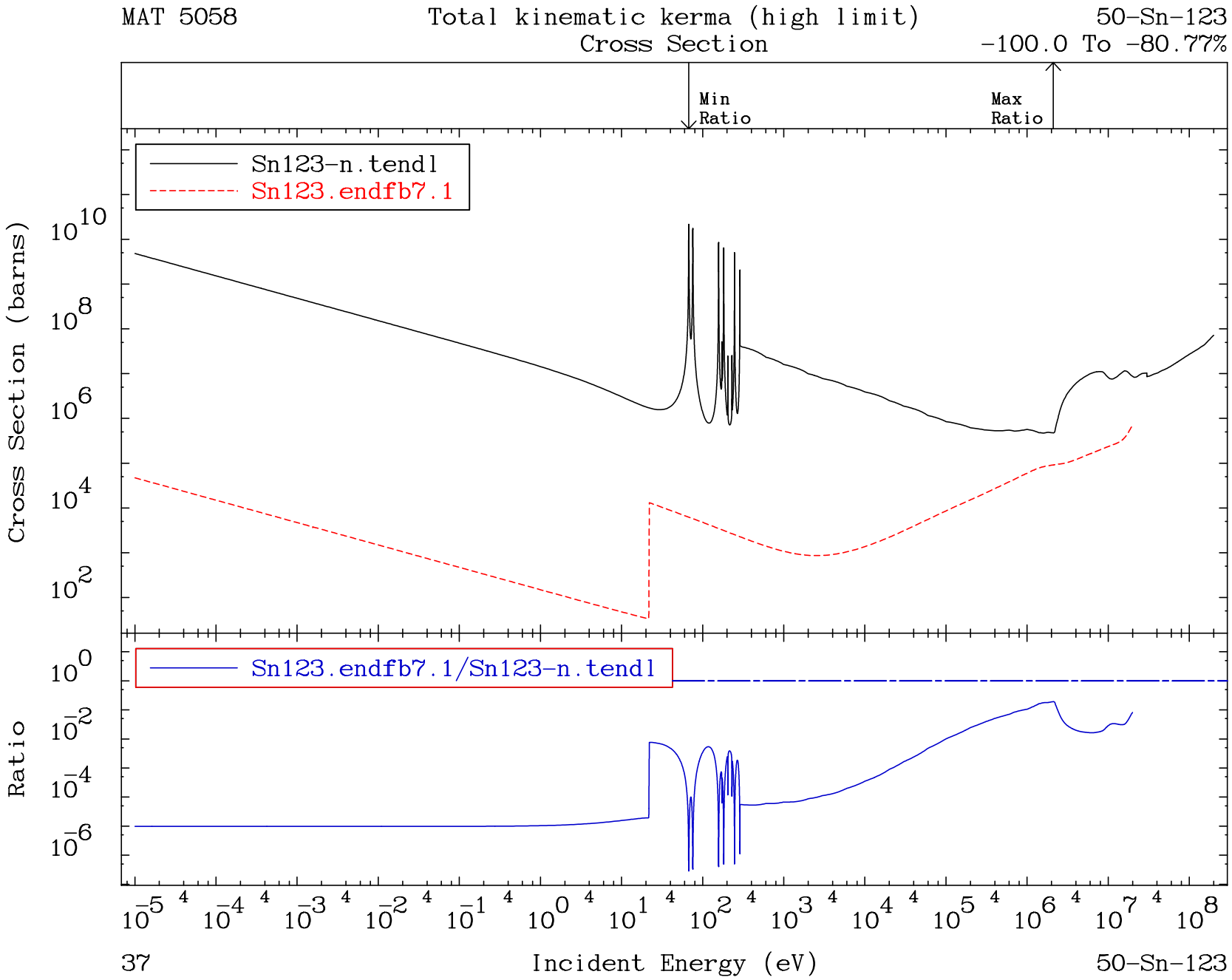

MAT 5058
Kerma non-elastic (all but mt2)
Cross Section
50-Sn-123
-99.22 To 9999. %
Max Ratio
Min Ratio
Sn123-n.tendl
Sn123.endfb7.1
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
32
50-Sn-123

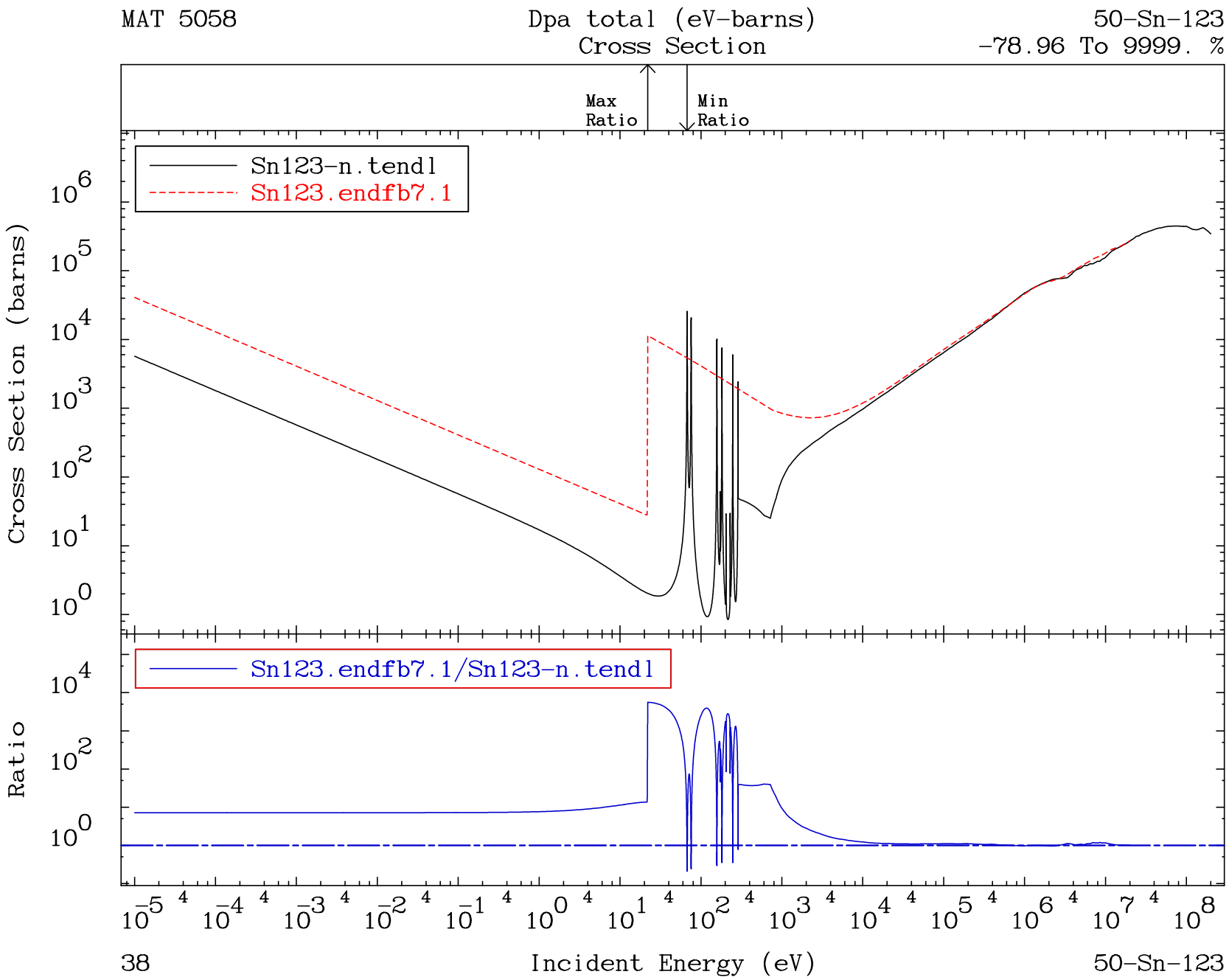

MAT 5058
Kerma inelastic (mt51-91)
Cross Section
50-Sn-123
-80.38 To 45.67 %
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 24.802 keV
Sn123.endfb7.1 Threshold 24.901 keV
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
33
50-Sn-123

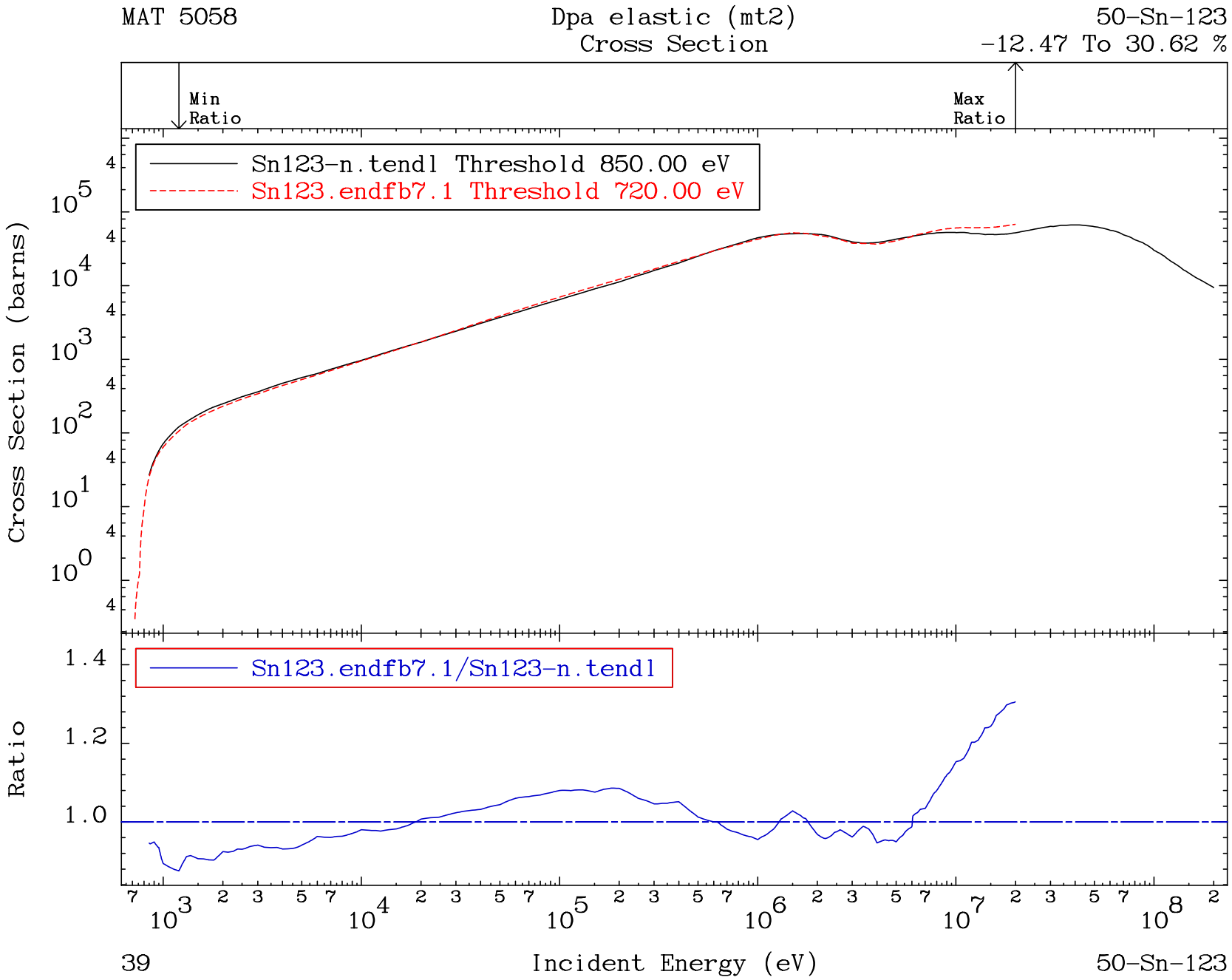

MAT 5058
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
50-Sn-123
-80.38 To 45.67 %
Min Ratio
Max Ratio
Sn123-n.tendl
Sn123.endfb7.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
1.6
1.2
0.8
0.4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
34
Incident Energy (eV)
50-Sn-123

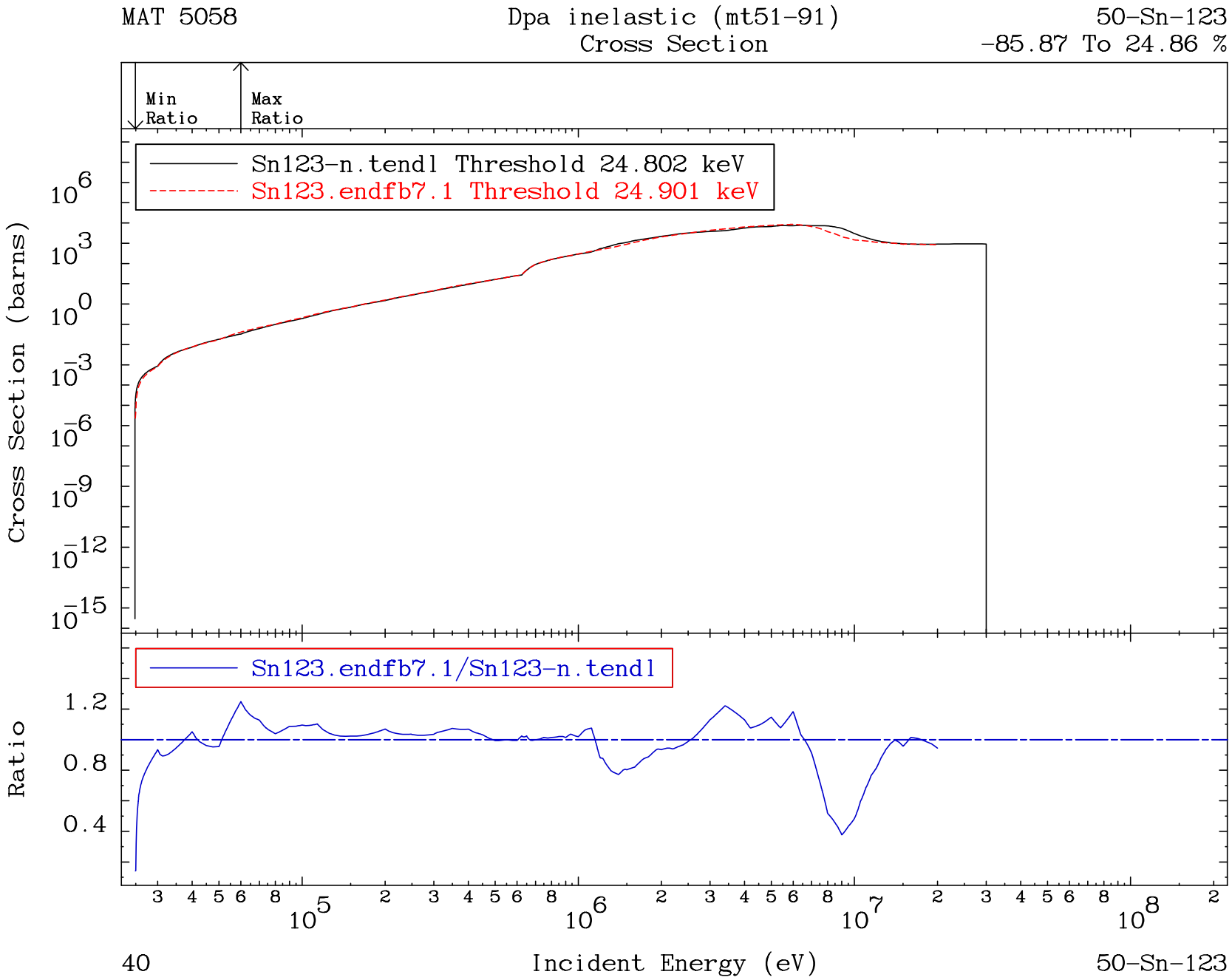

MAT 5058
Kerma capture (mt102)
Cross Section
50-Sn-123
-99.22 To 9999. %
Max Ratio
Min Ratio
Sn123-n.tendl
Sn123.endfb7.1
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
35
50-Sn-123

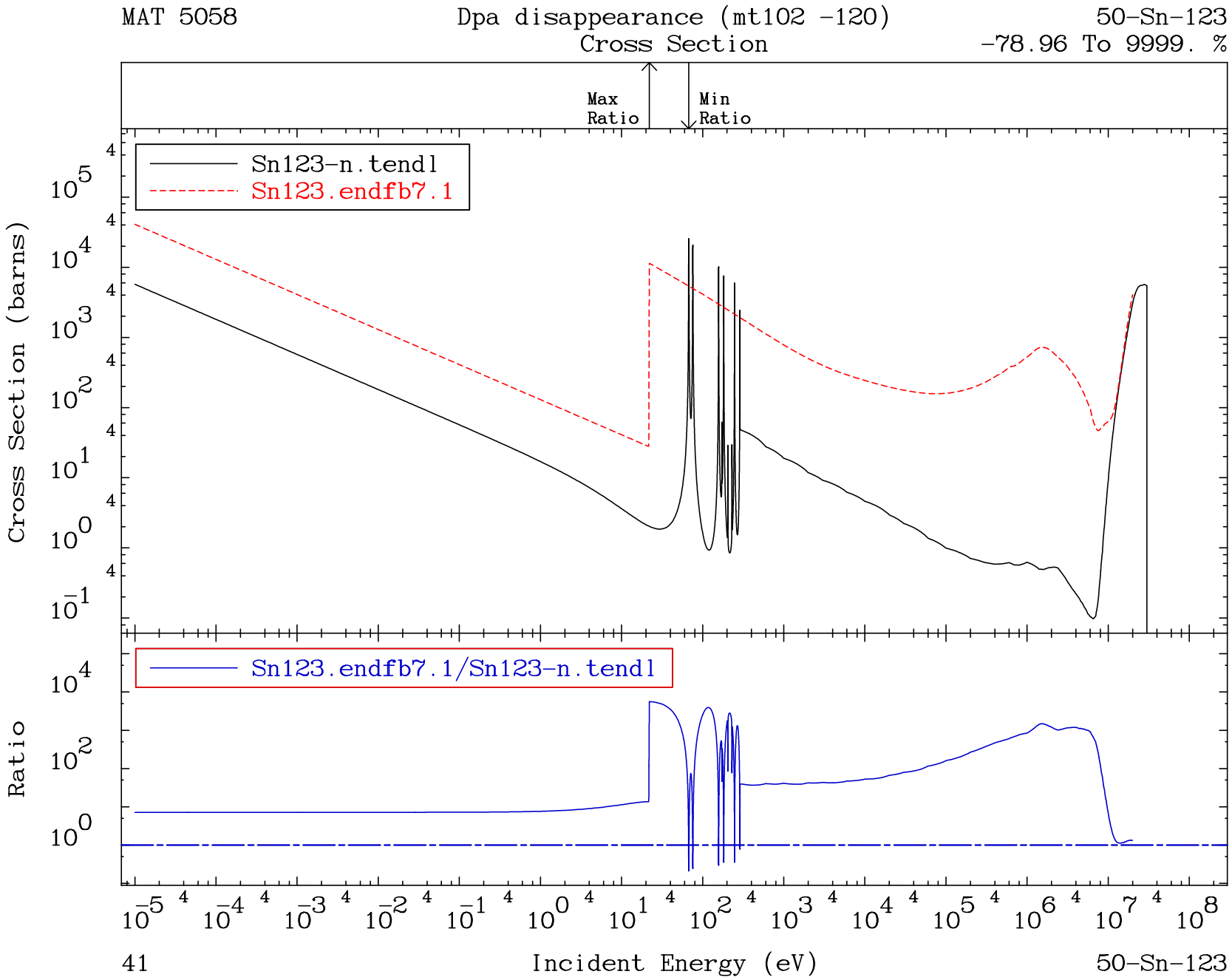

MAT 5058
Total photon (eV-barns)
Cross Section
50-Sn-123
-99.22 To 9999. %
Max Ratio
Min Ratio
Sn123-n.tendl
Sn123.endfb7.1
Cross Section (Giga-barns)
25
20
15
10
5
0
Sn123.endfb7.1/Sn123-n.tendl
Ratio
10^2
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
36
Incident Energy (eV)
50-Sn-123


MAT 5058
Total kinematic kerma (high limit)
Cross Section
50-Sn-123
-100.0 To -80.77%
Min Ratio
Max Ratio
Sn123-n.tendl
Sn123.endfb7.1
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
37
50-Sn-123


MAT 5058
Dpa total (eV-barns)
Cross Section
50-Sn-123
-78.96 To 9999. %
Max Ratio
Min Ratio
Sn123-n.tendl
Sn123.endfb7.1
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
38
Incident Energy (eV)
50-Sn-123


MAT 5058
Dpa elastic (mt2)
Cross Section
50-Sn-123
-12.47 To 30.62 %
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 850.00 eV
Sn123.endfb7.1 Threshold 720.00 eV
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
39
50-Sn-123


MAT 5058
Dpa inelastic (mt51-91)
Cross Section
50-Sn-123
-85.87 To 24.86 %
Min Ratio
Max Ratio
Sn123-n.tendl Threshold 24.802 keV
Sn123.endfb7.1 Threshold 24.901 keV
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
40
50-Sn-123


MAT 5058
Dpa disappearance (mt102 -120)
Cross Section
50-Sn-123
-78.96 To 9999. %
Max Ratio
Min Ratio
Sn123-n.tendl
Sn123.endfb7.1
Cross Section (barns)
Sn123.endfb7.1/Sn123-n.tendl
Ratio
Incident Energy (eV)
41
50-Sn-123