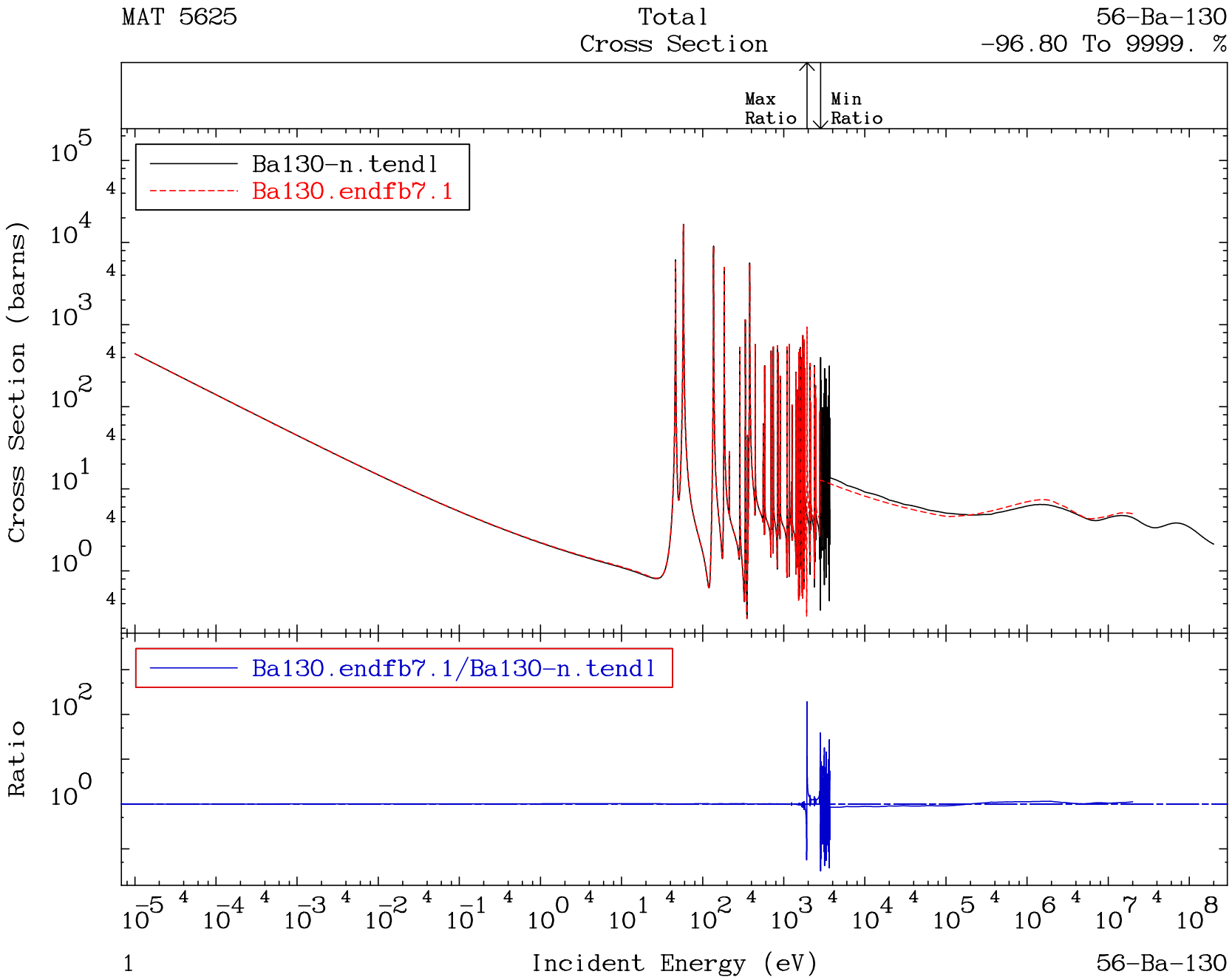
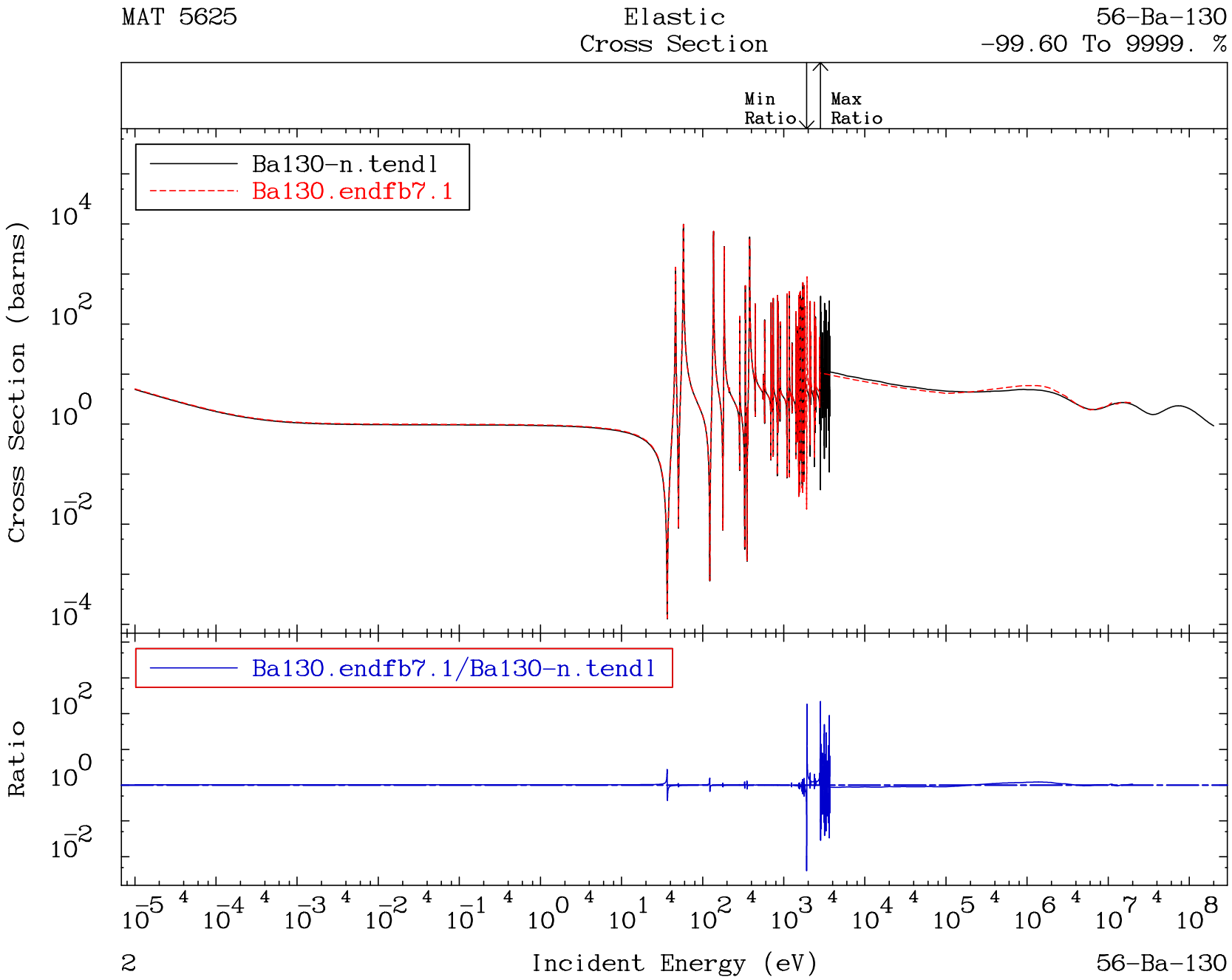
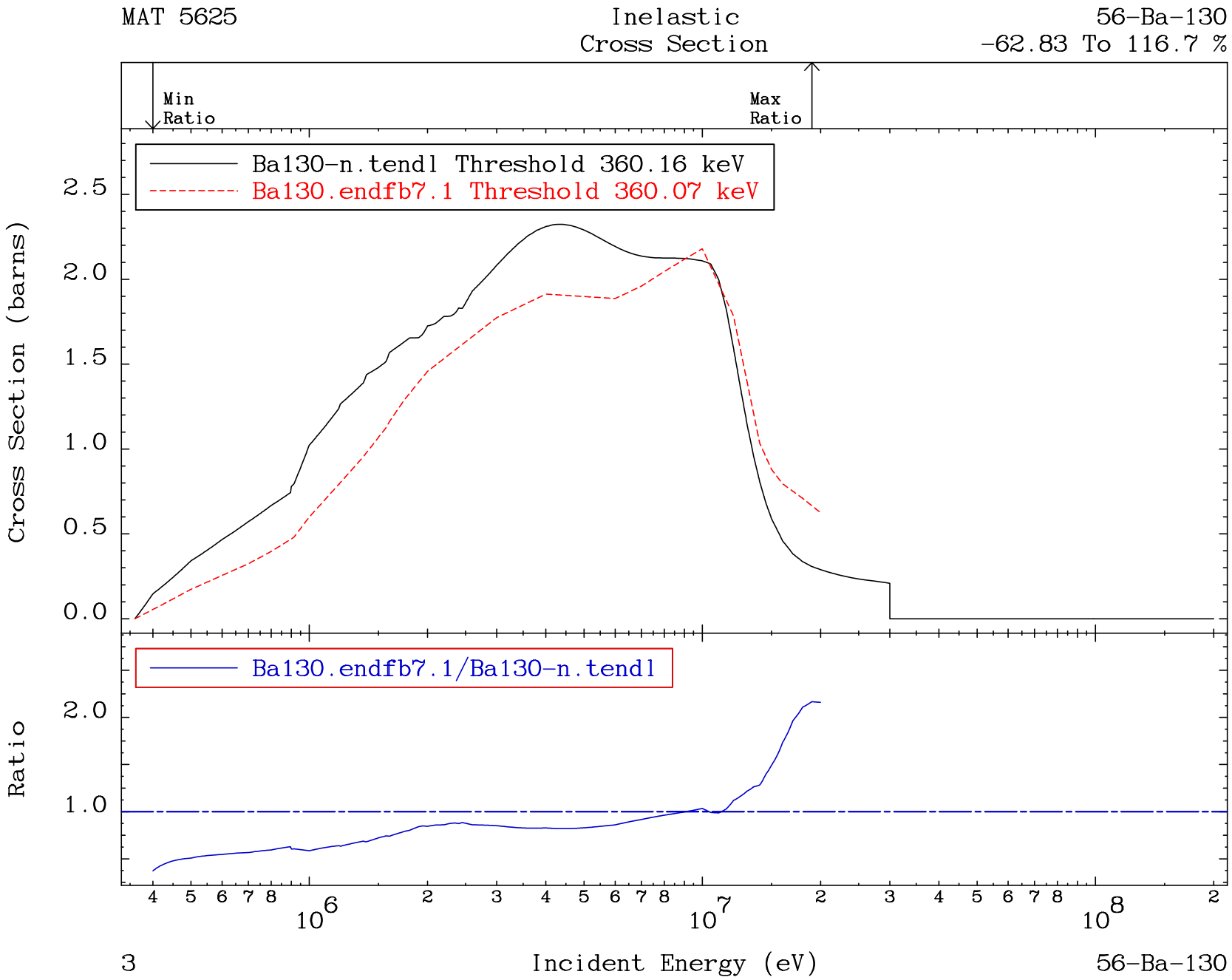
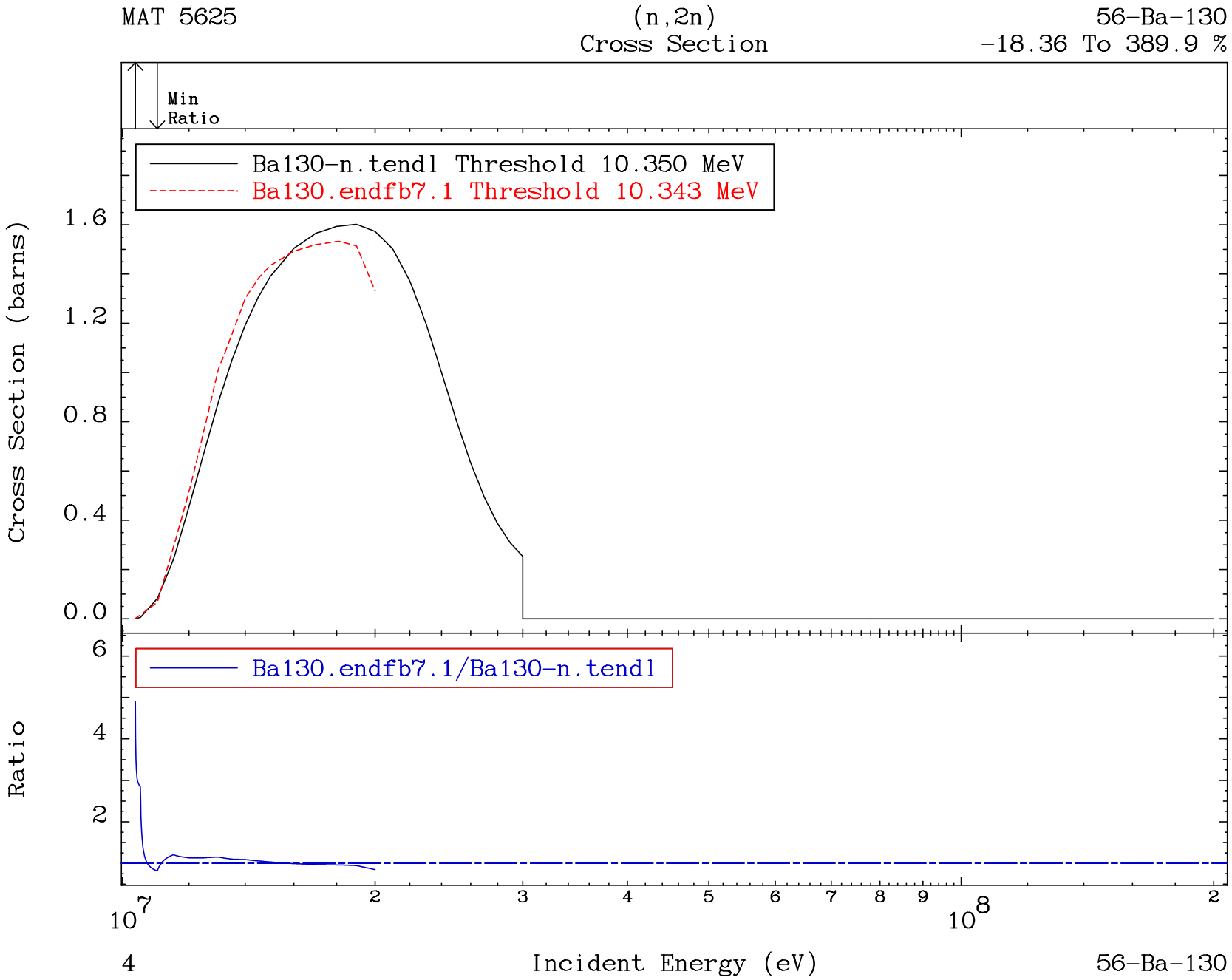
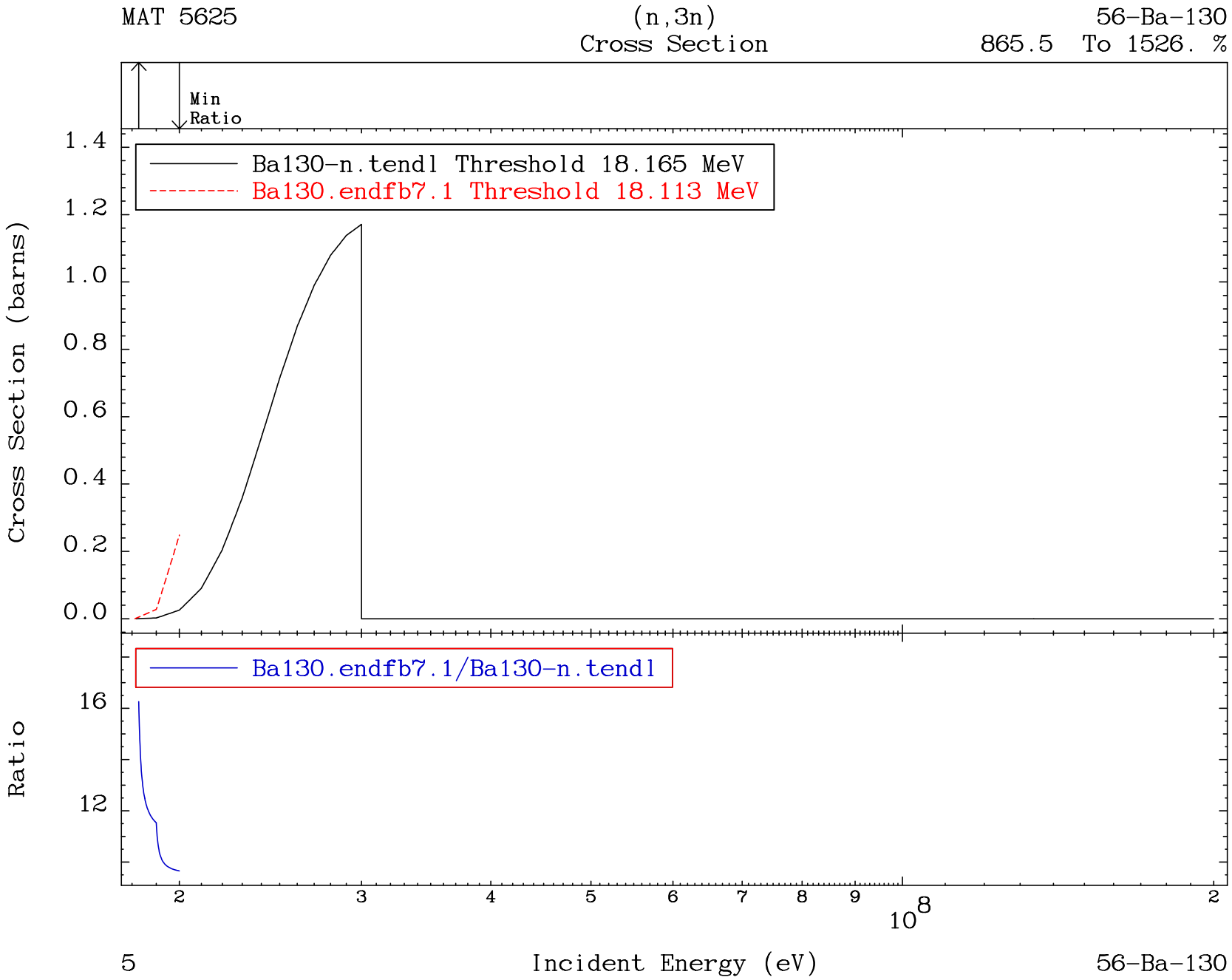
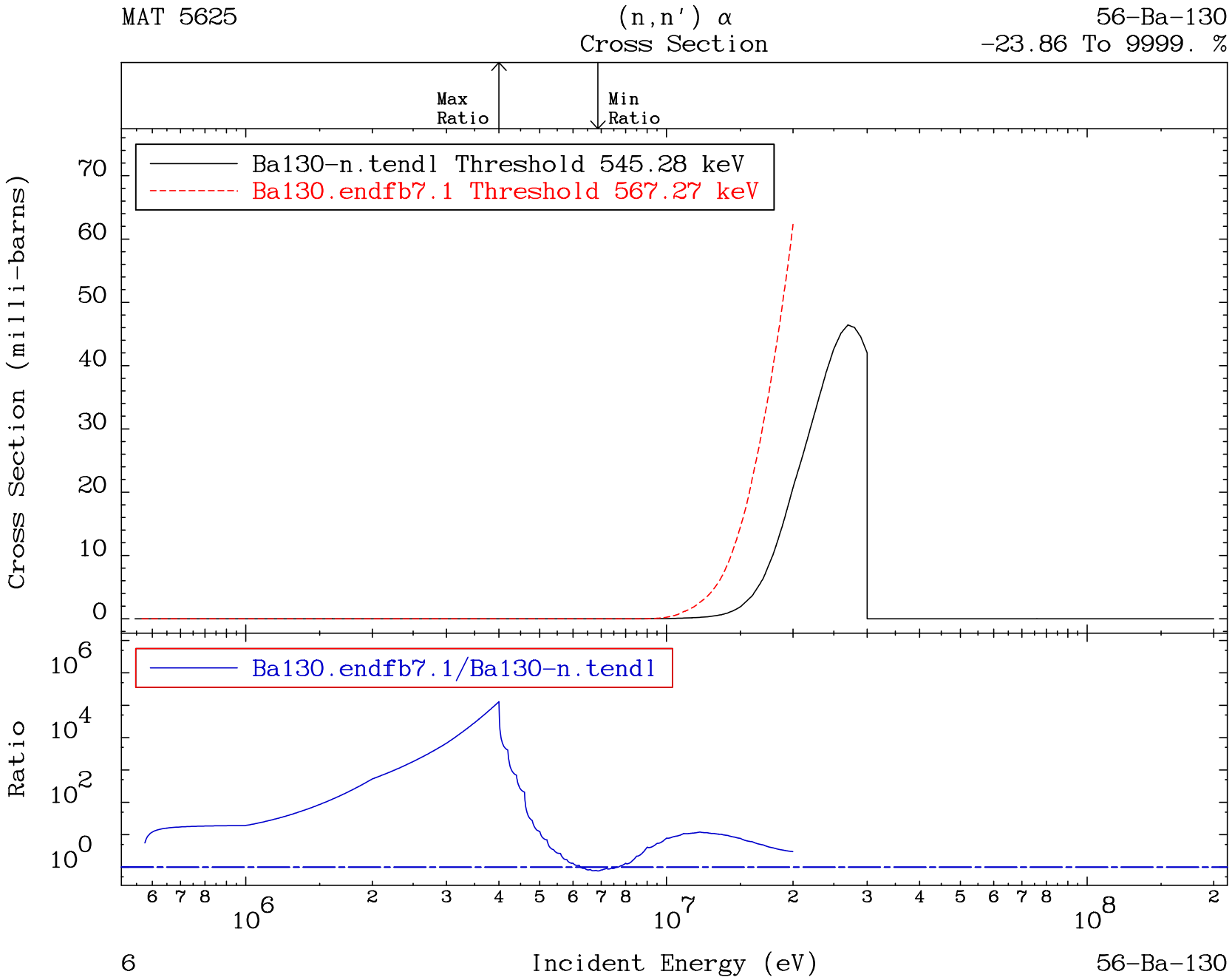

MAT 5625
Total
Cross Section
56-Ba-130
-96.80 To 9999. %
Max Ratio
Min Ratio
Ba130-n.tendl
Ba130.endfb7.1
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
56-Ba-130
1

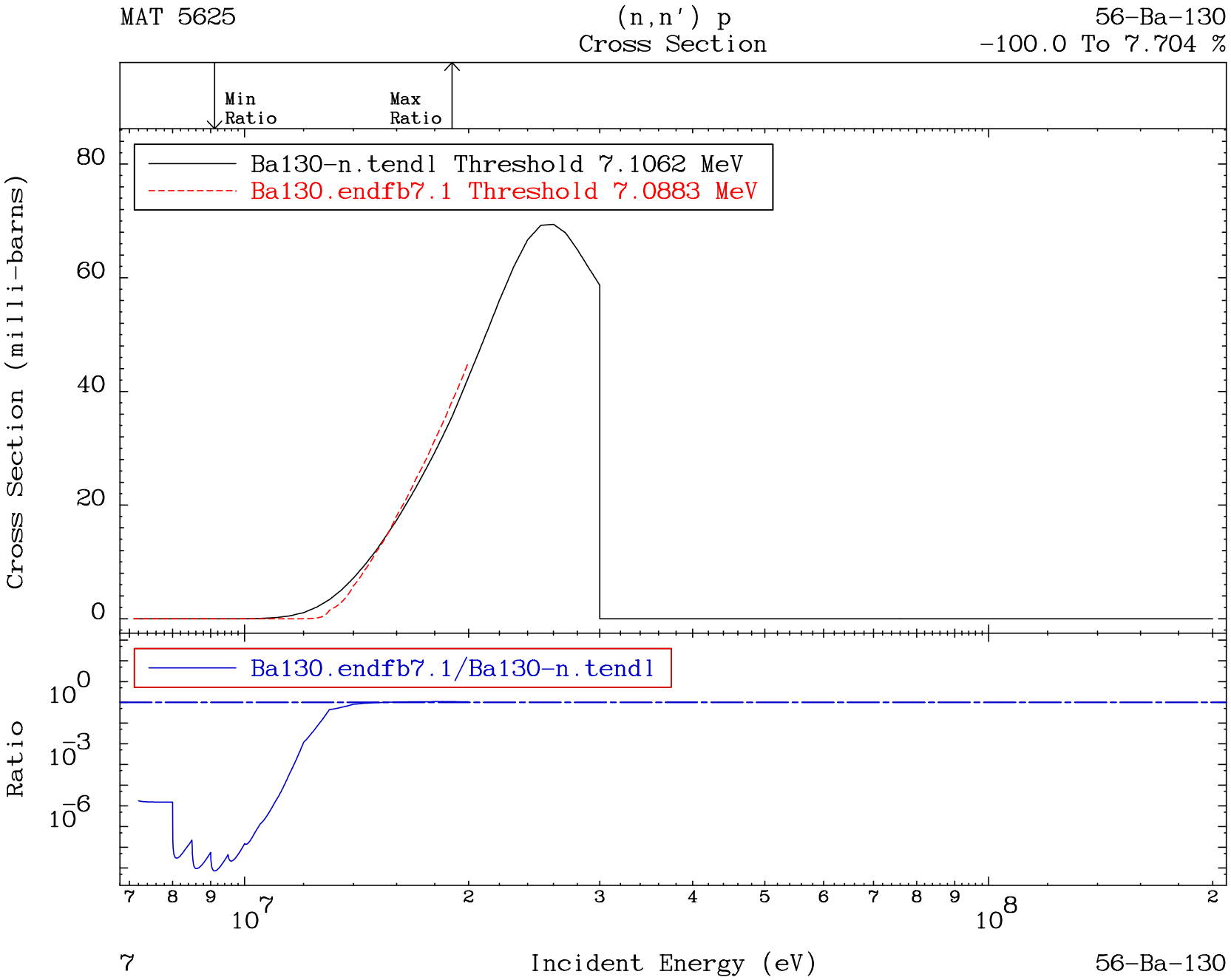

MAT 5625
Elastic
Cross Section
56-Ba-130
-99.60 To 9999. %
Min Ratio
Max Ratio
Ba130-n.tendl
Ba130.endfb7.1
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
2
56-Ba-130

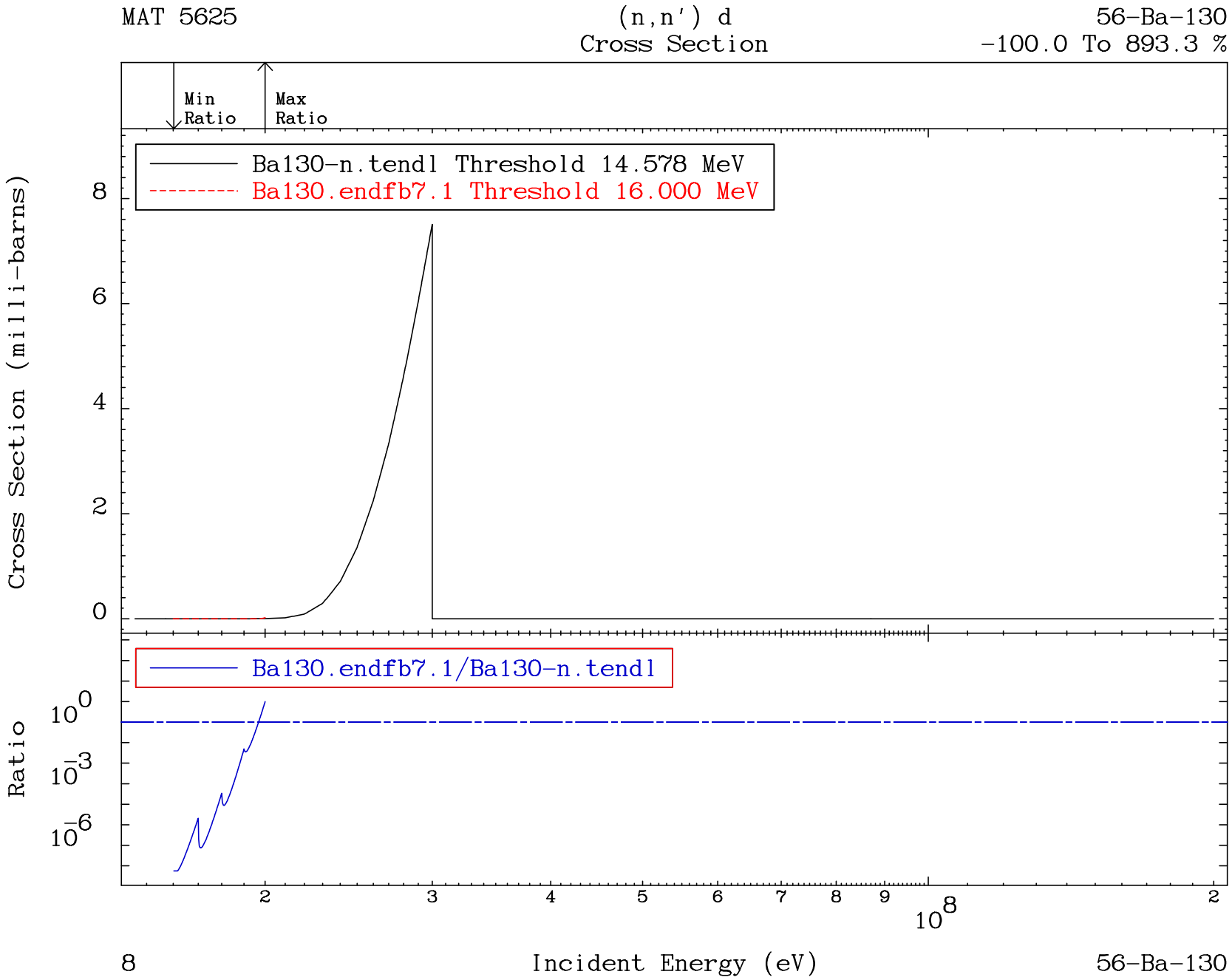

MAT 5625
Inelastic
Cross Section
56-Ba-130
-62.83 To 116.7 %
Min
Ratio
Max
Ratio
Ba130-n.tendl Threshold 360.16 keV
Ba130.endfb7.1 Threshold 360.07 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
2.0
1.0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
56-Ba-130

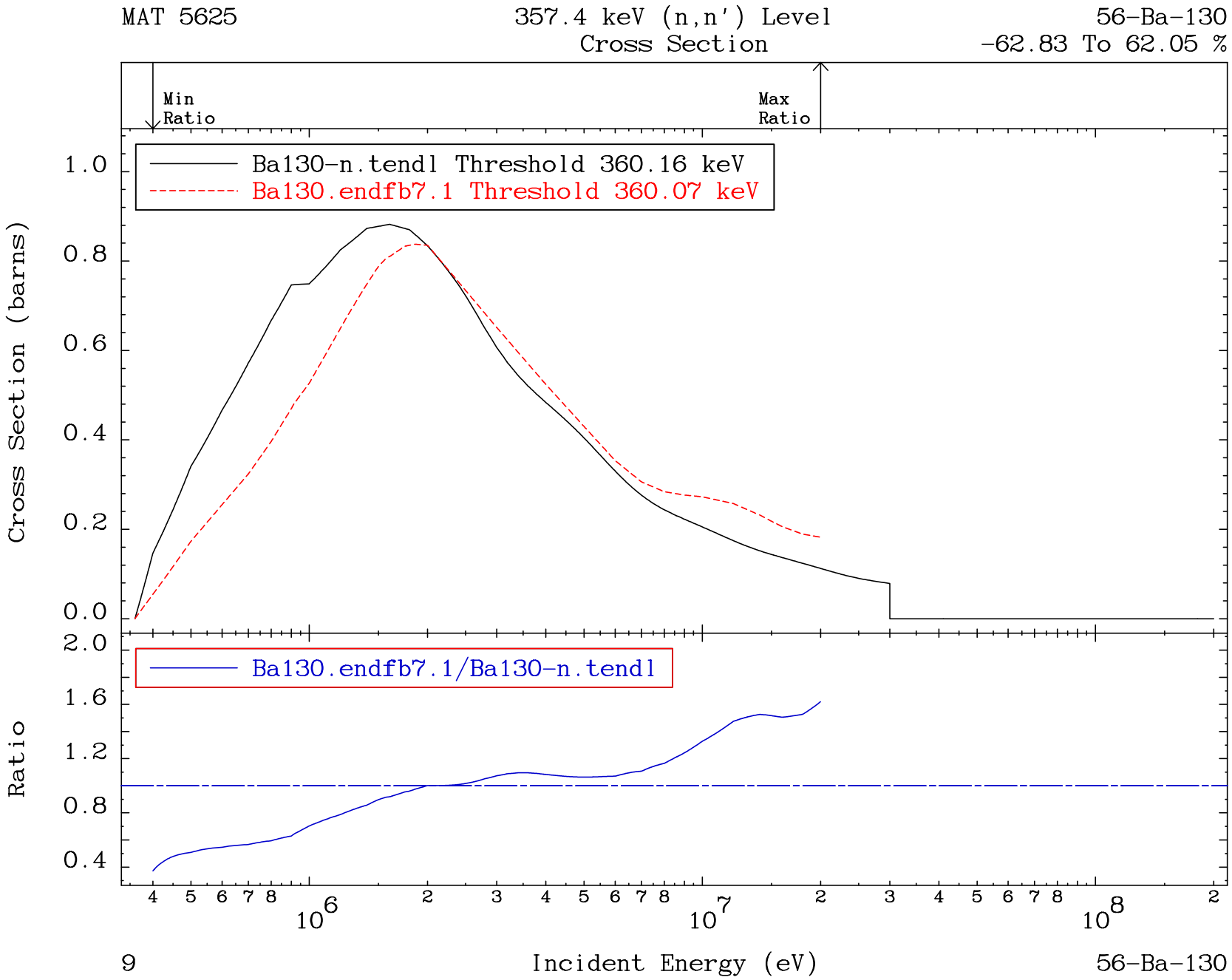

MAT 5625
(n,2n)
Cross Section
56-Ba-130
-18.36 To 389.9 %
Min
Ratio
Ba130-n.tendl Threshold 10.350 MeV
Ba130.endfb7.1 Threshold 10.343 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
6
4
2
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
56-Ba-130

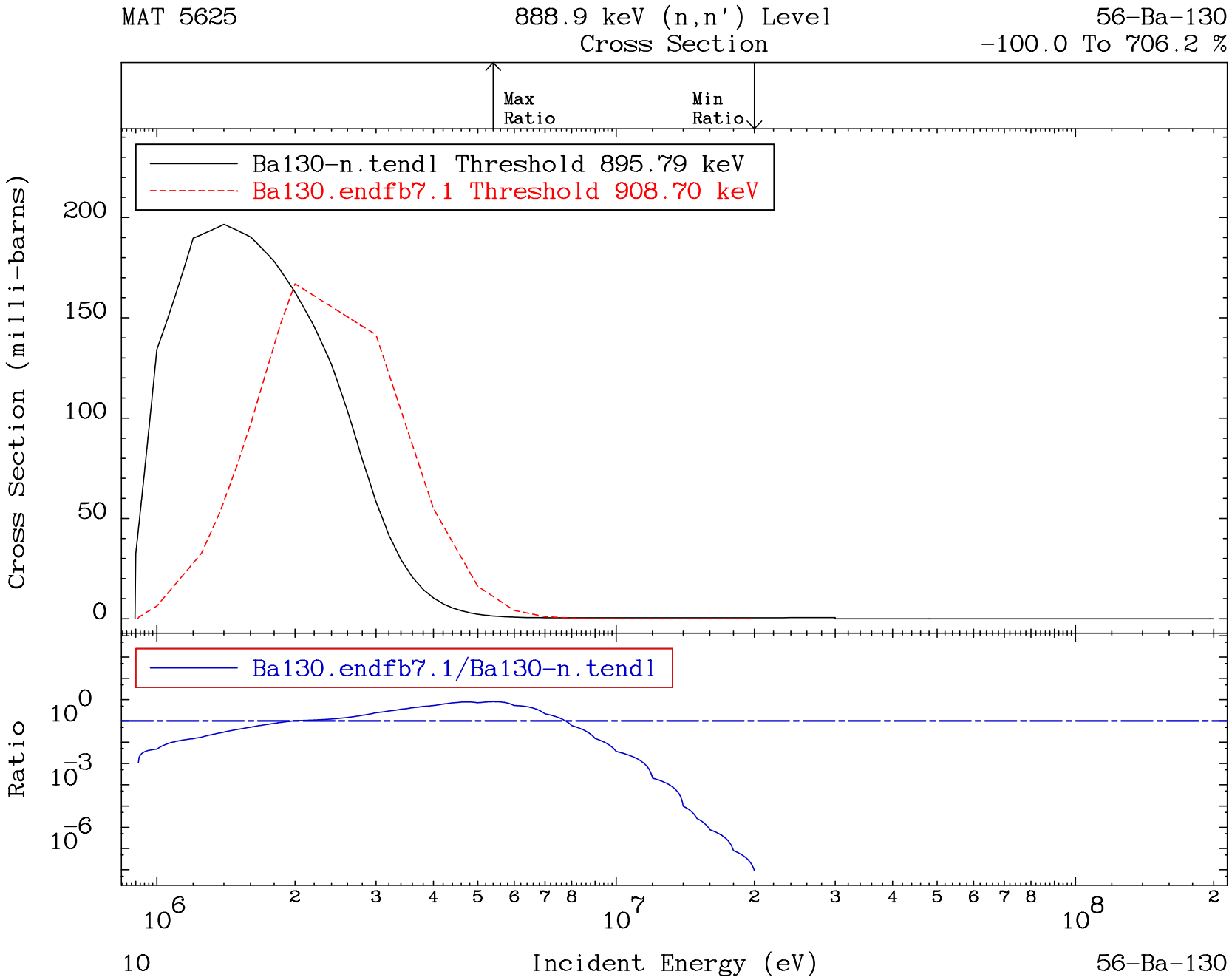

MAT 5625
(n,3n)
Cross Section
56-Ba-130
865.5 To 1526. %
Min
Ratio
Ba130-n.tendl Threshold 18.165 MeV
Ba130.endfb7.1 Threshold 18.113 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
16
12
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
56-Ba-130

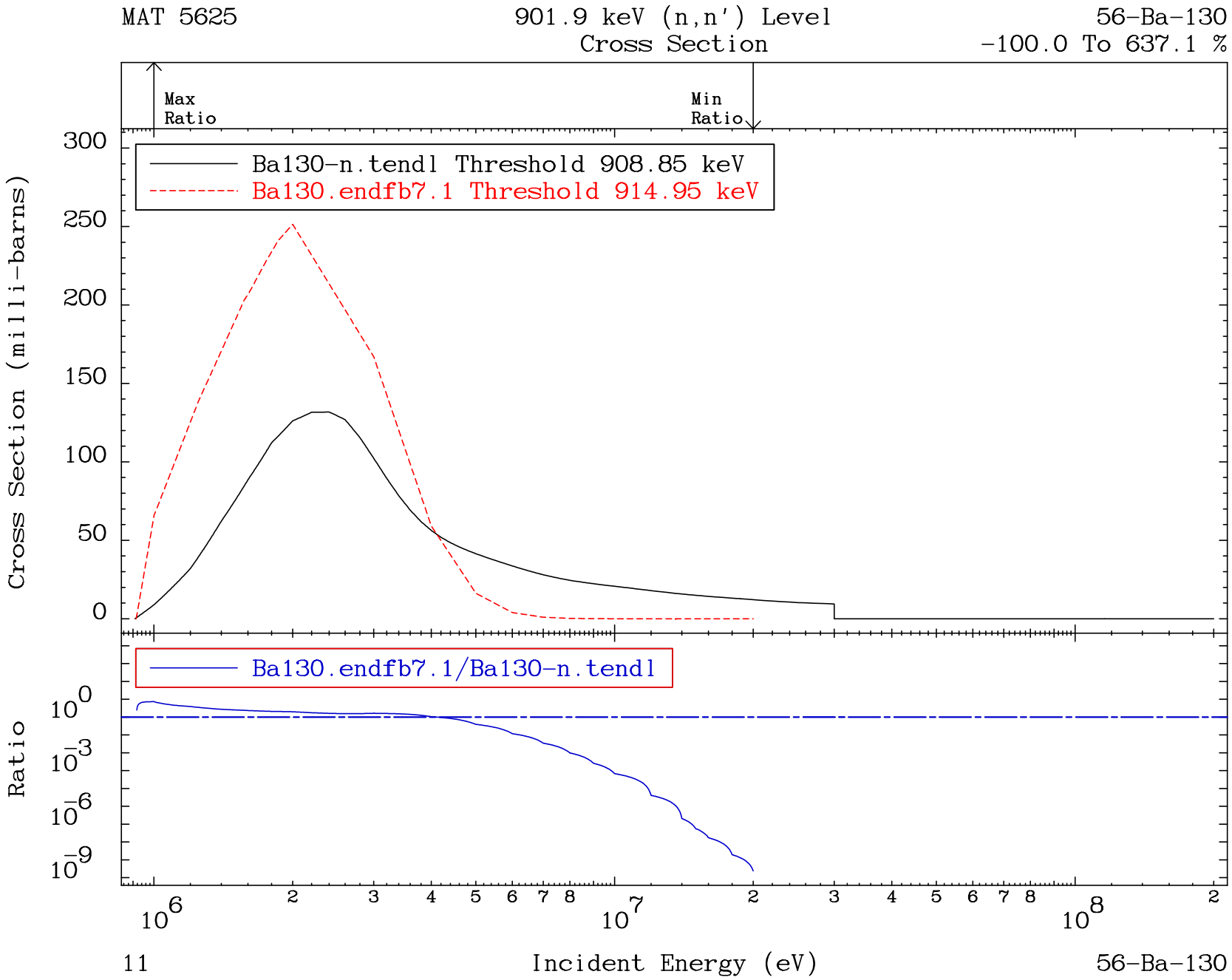

MAT 5625
(n,n') α
Cross Section
56-Ba-130
-23.86 To 9999. %
Max Ratio
Min Ratio
Ba130-n.tendl Threshold 545.28 keV
Ba130.endfb7.1 Threshold 567.27 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^6
10^4
10^2
10^0
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
6
Incident Energy (eV)
56-Ba-130

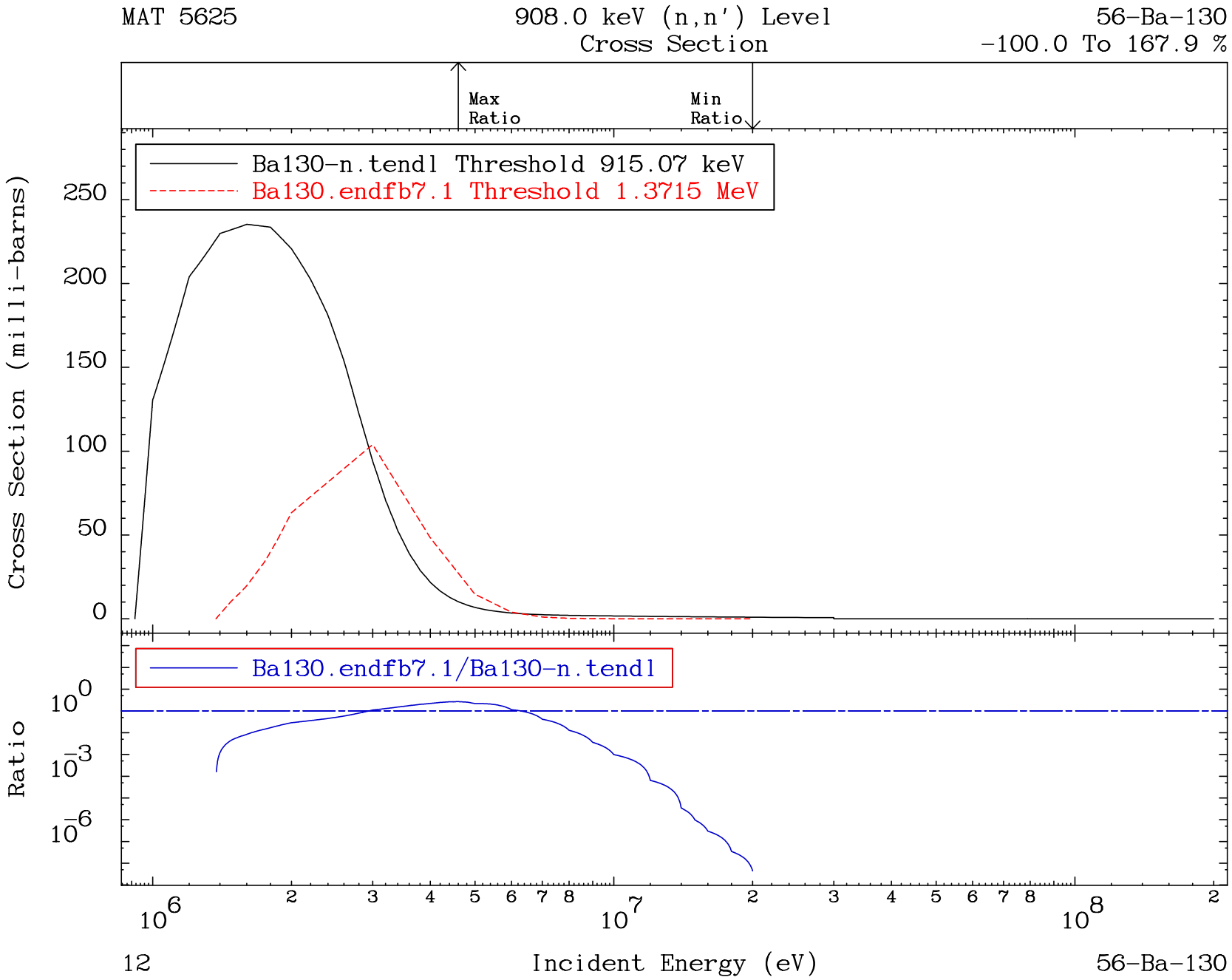

MAT 5625
(n,n') p
Cross Section
56-Ba-130
-100.0 To 7.704 %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 7.1062 MeV
Ba130.endfb7.1 Threshold 7.0883 MeV
Cross Section (milli-barns)
80
60
40
20
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^0
10^-3
10^-6
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
56-Ba-130

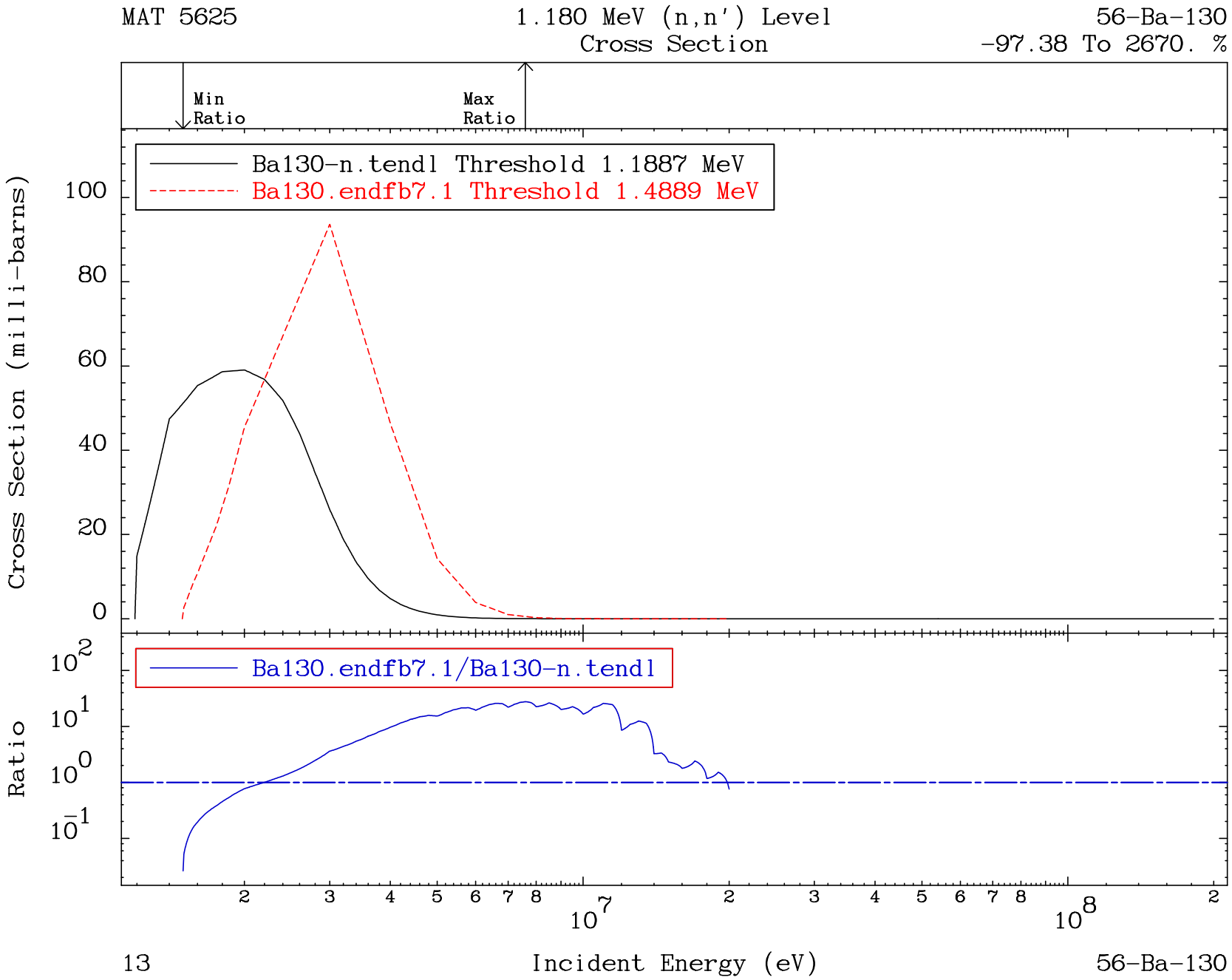

MAT 5625
(n,n') d
Cross Section
56-Ba-130
-100.0 To 893.3 %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 14.578 MeV
Ba130.endfb7.1 Threshold 16.000 MeV
Cross Section (milli-barns)
0
2
4
6
8
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
56-Ba-130

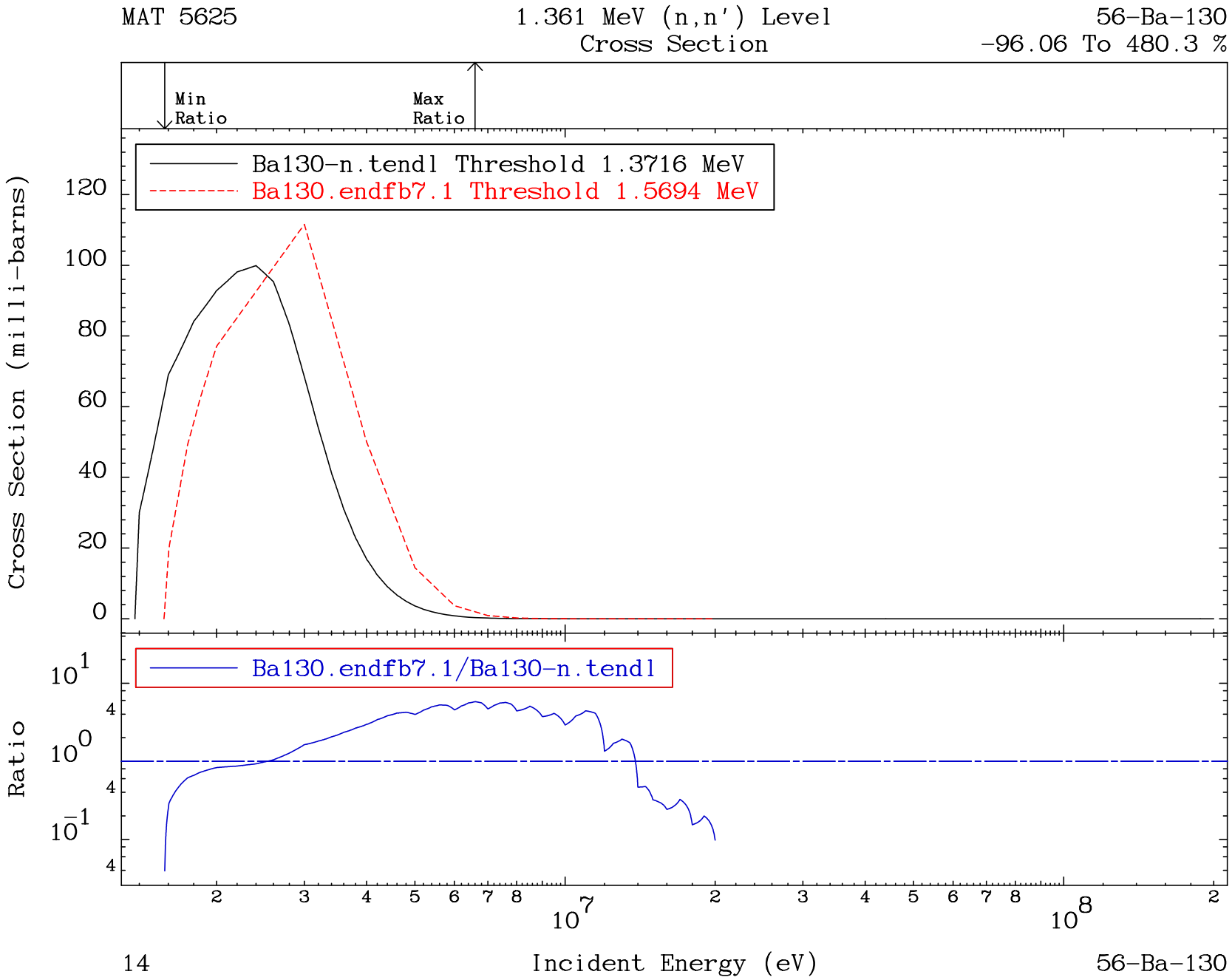

MAT 5625
357.4 keV (n,n') Level
Cross Section
56-Ba-130
-62.83 To 62.05 %
Min
Ratio
Max
Ratio
Ba130-n.tendl Threshold 360.16 keV
Ba130.endfb7.1 Threshold 360.07 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
2.0
1.6
1.2
0.8
0.4
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
56-Ba-130

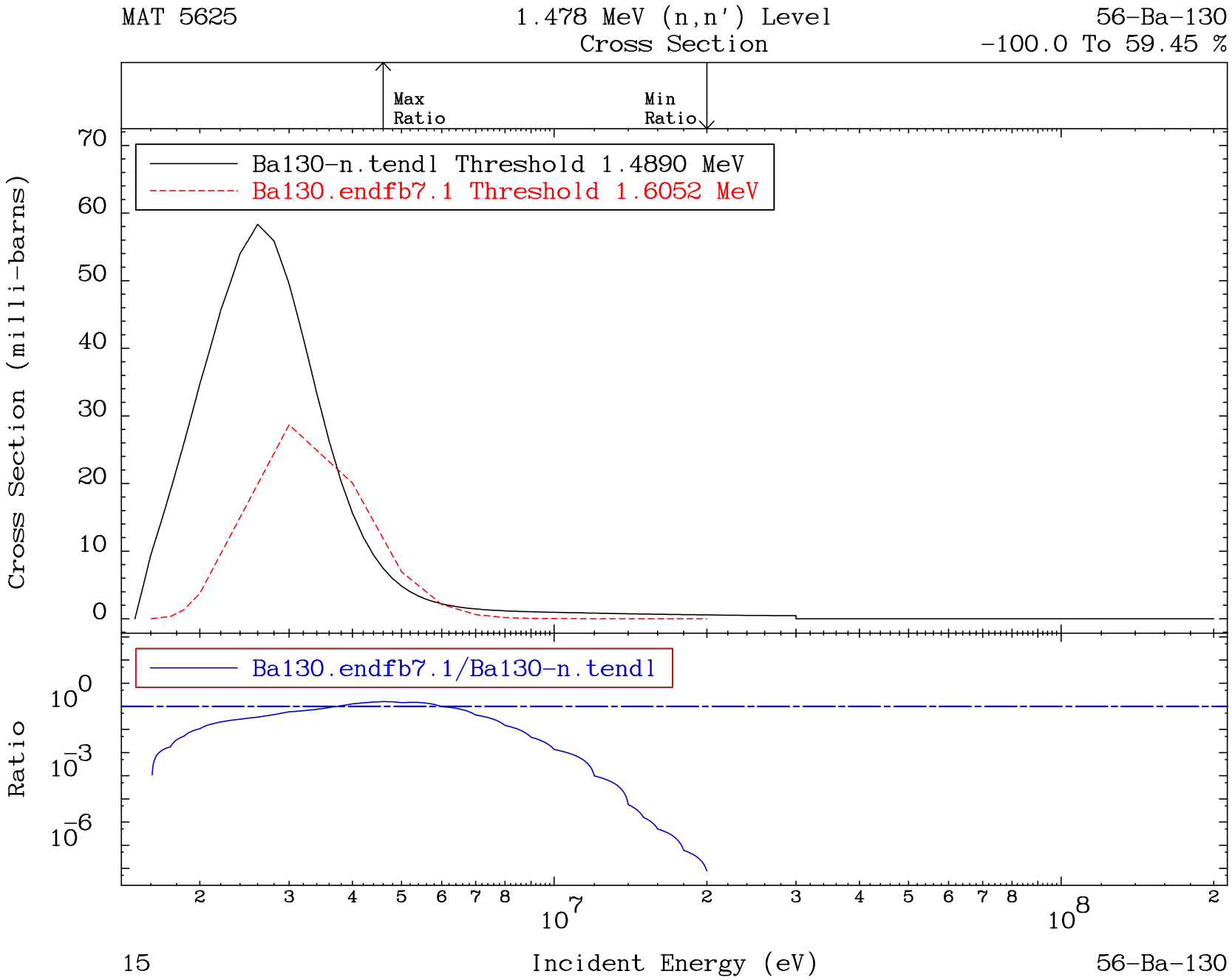

MAT 5625
888.9 keV (n,n') Level
Cross Section
56-Ba-130
-100.0 To 706.2 %
Max Ratio
Min Ratio
Ba130-n.tendl Threshold 895.79 keV
Ba130.endfb7.1 Threshold 908.70 keV
Cross Section (milli-barns)
200
150
100
50
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^0
10^-3
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
56-Ba-130

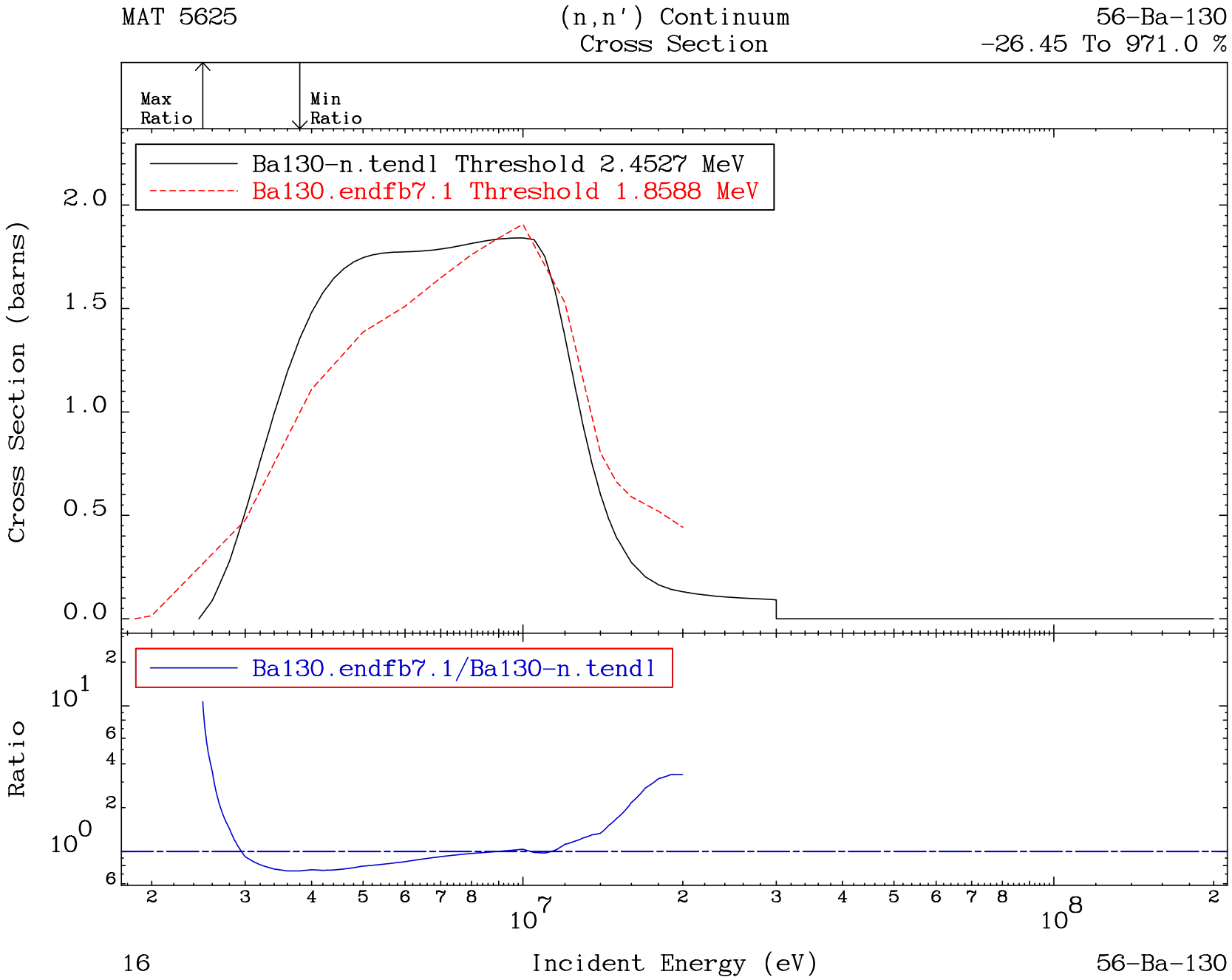

MAT 5625
901.9 keV (n,n') Level
Cross Section
56-Ba-130
-100.0 To 637.1 %
Max Ratio
Min Ratio
Ba130-n.tendl Threshold 908.85 keV
Ba130.endfb7.1 Threshold 914.95 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
56-Ba-130

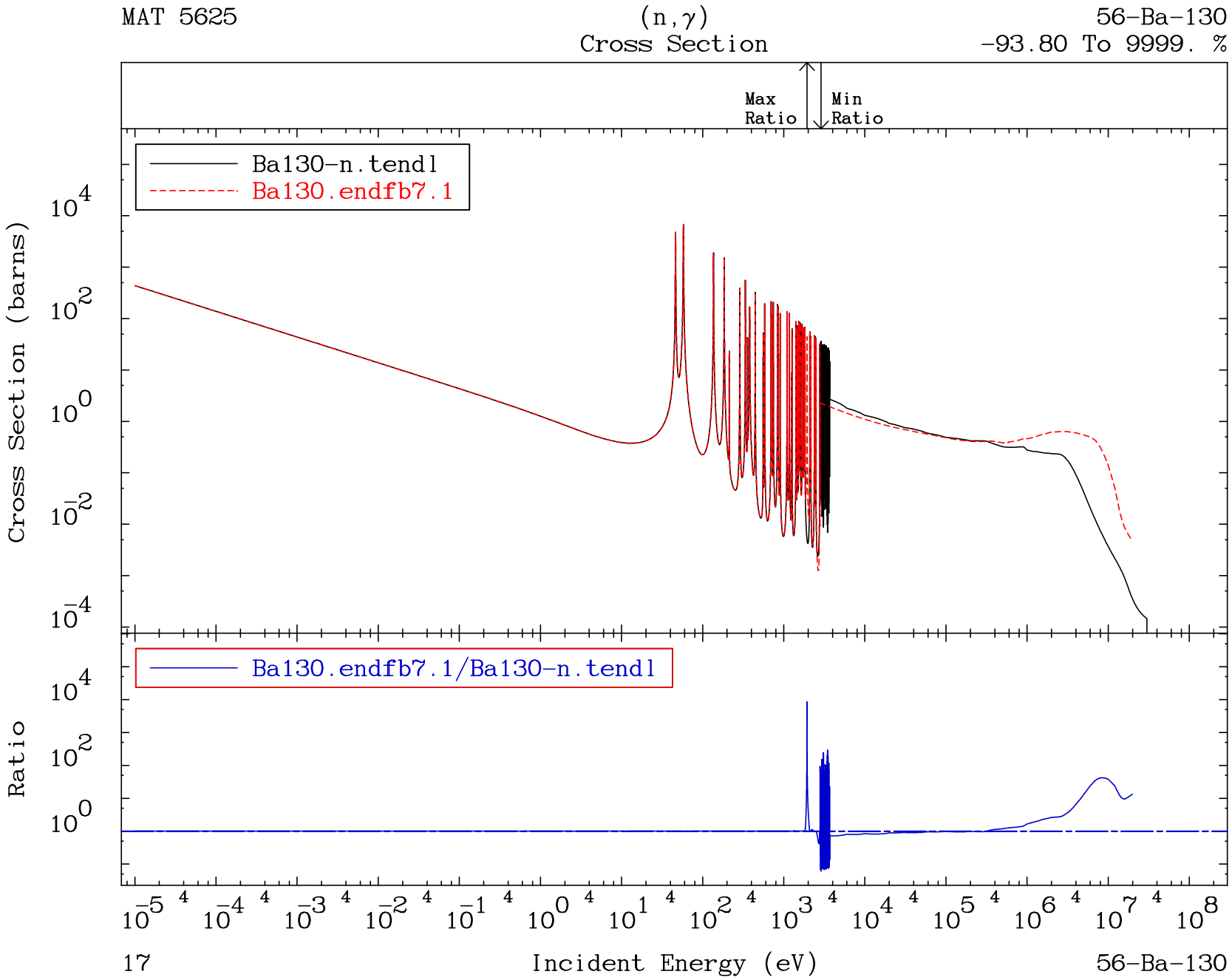

MAT 5625
908.0 keV (n,n') Level
Cross Section
56-Ba-130
-100.0 To 167.9 %
Max
Ratio
Min
Ratio
Ba130-n.tendl Threshold 915.07 keV
Ba130.endfb7.1 Threshold 1.3715 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^0
10^-3
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
56-Ba-130

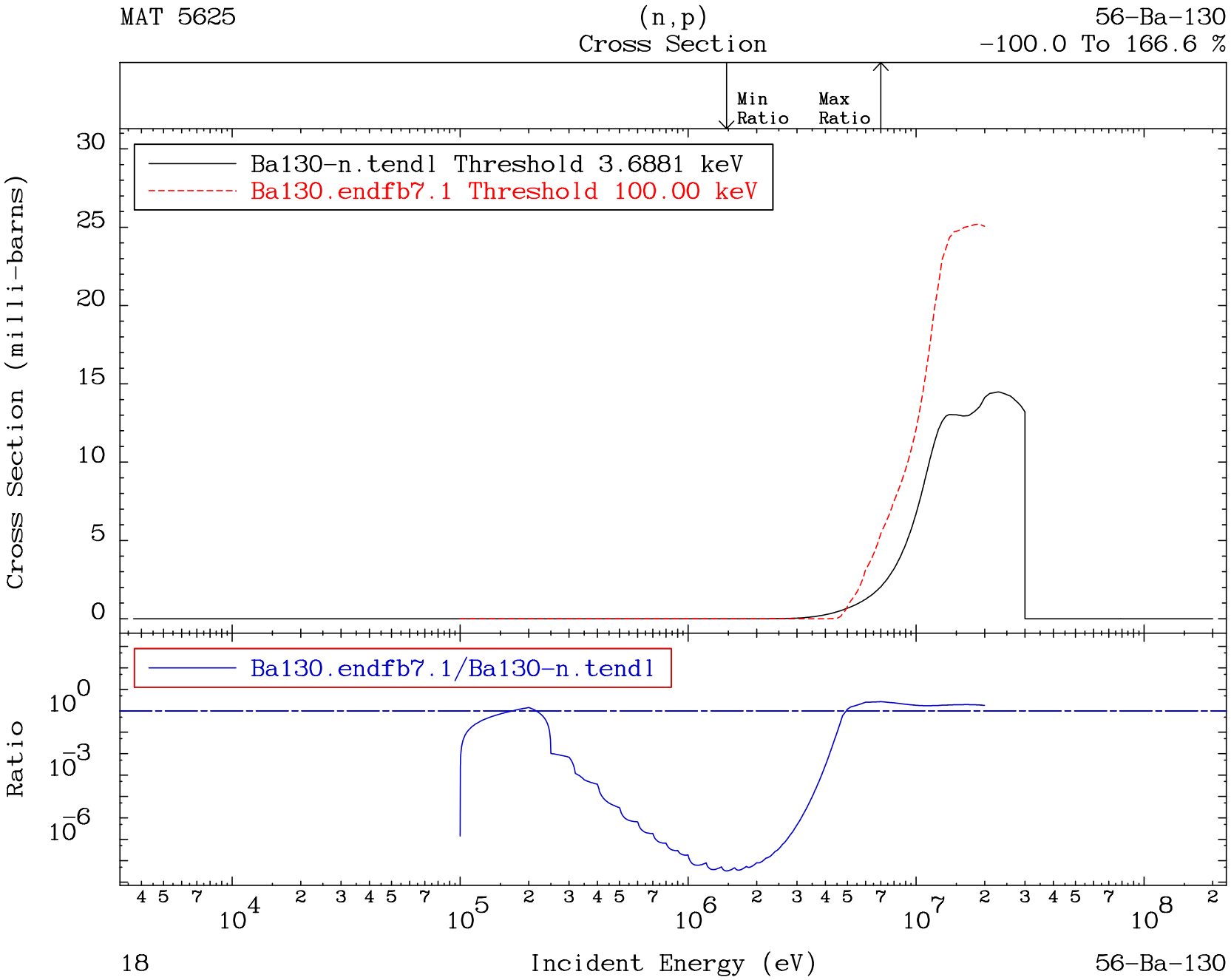

MAT 5625
1.180 MeV (n,n') Level
Cross Section
56-Ba-130
-97.38 To 2670. %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 1.1887 MeV
Ba130.endfb7.1 Threshold 1.4889 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^2
10^1
10^0
10^-1
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
56-Ba-130

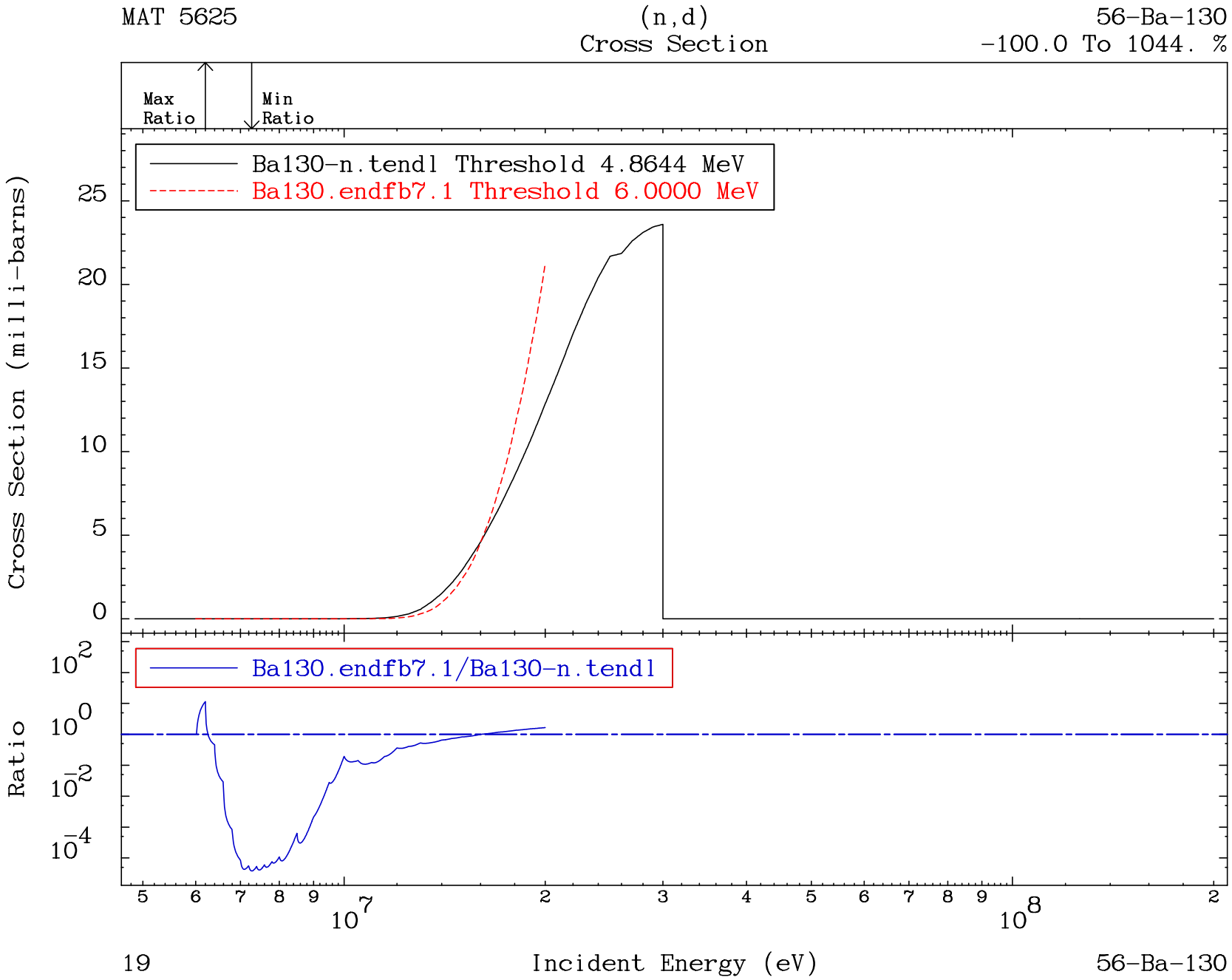

MAT 5625
1.361 MeV (n,n') Level
Cross Section
56-Ba-130
-96.06 To 480.3 %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 1.3716 MeV
Ba130.endfb7.1 Threshold 1.5694 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^1
10^0
10^-1
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
56-Ba-130

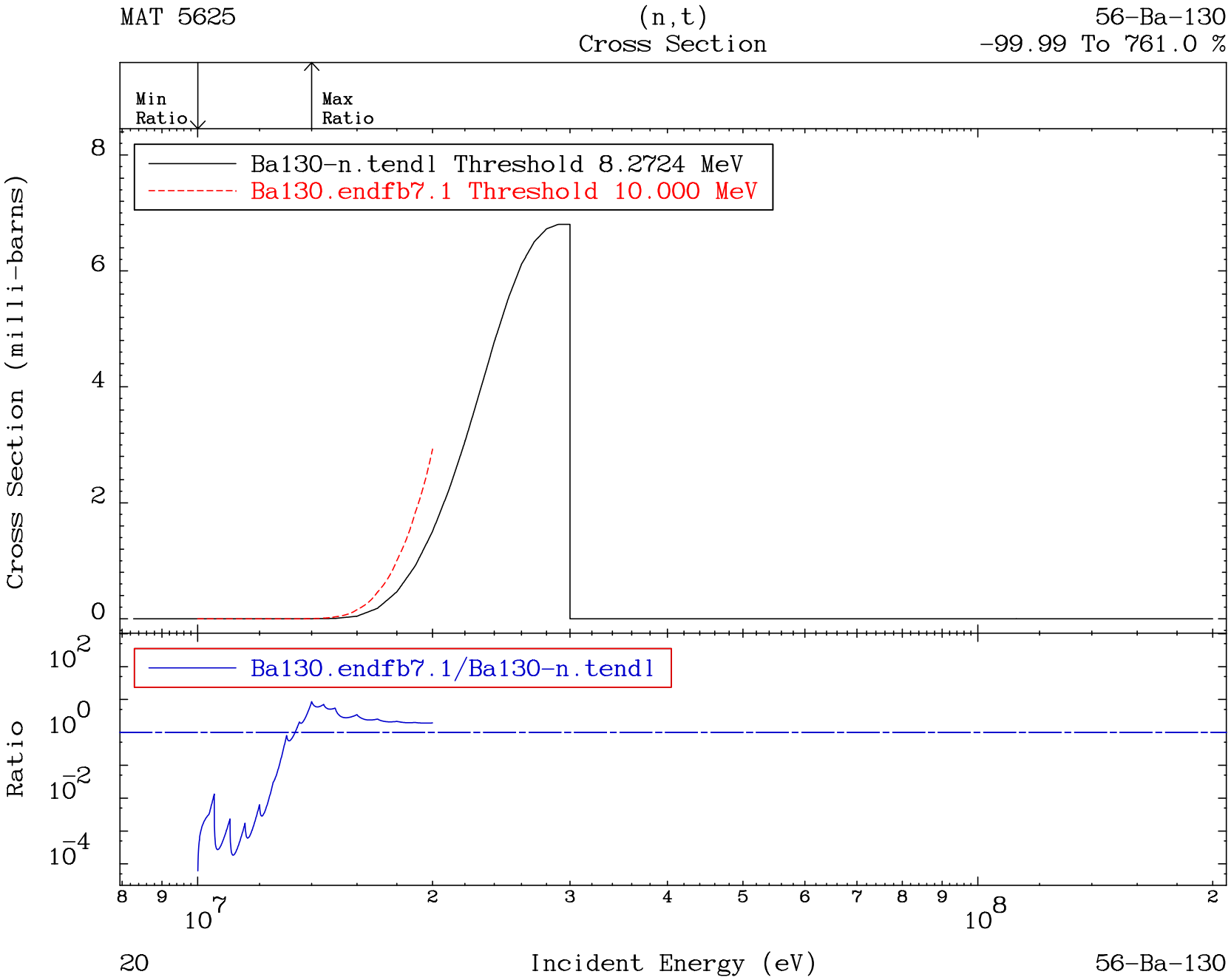

MAT 5625
1.478 MeV (n,n') Level
Cross Section
56-Ba-130
-100.0 To 59.45 %
Max Ratio
Min Ratio
Ba130-n.tendl Threshold 1.4890 MeV
Ba130.endfb7.1 Threshold 1.6052 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
56-Ba-130

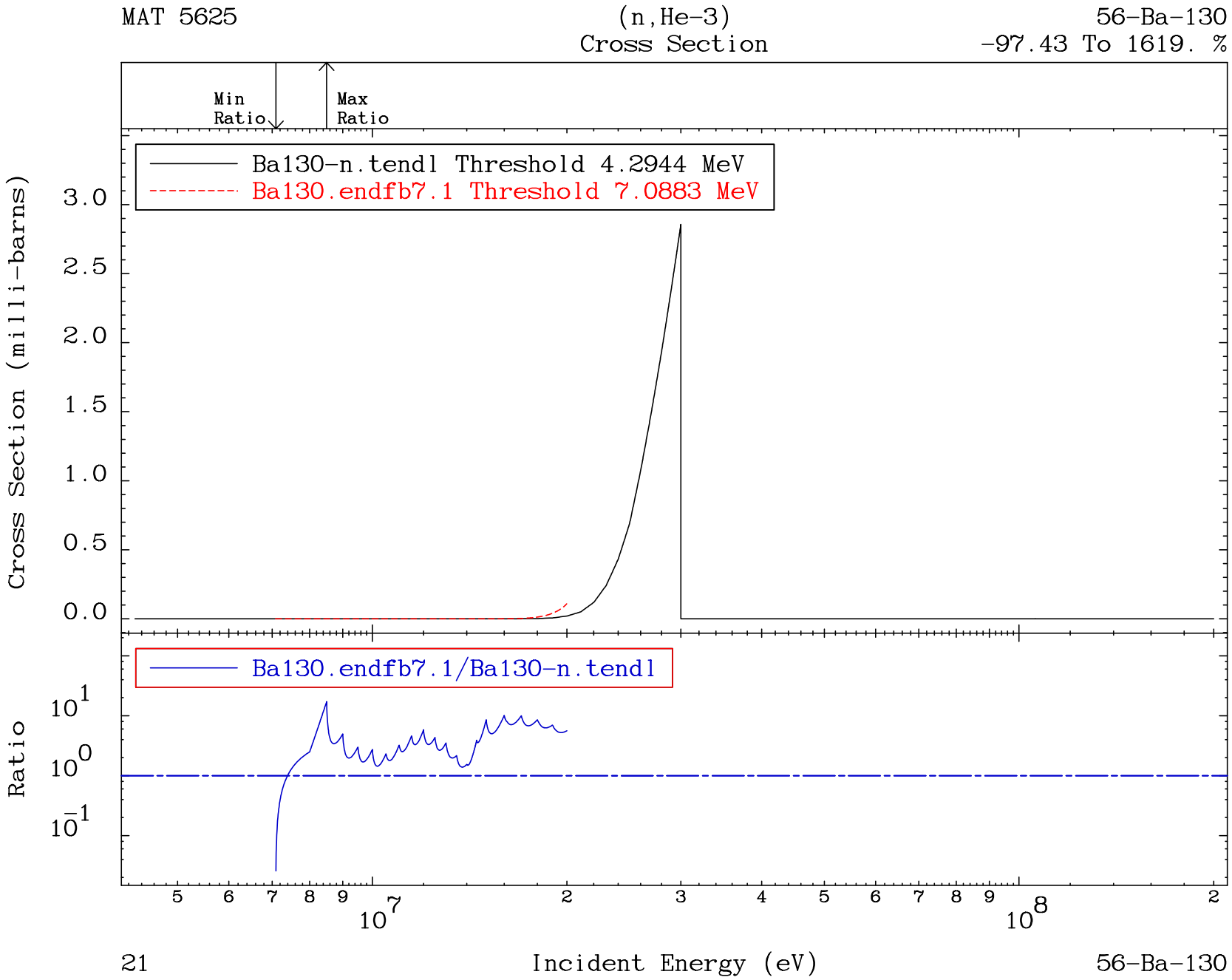

MAT 5625
(n,n') Continuum
Cross Section
56-Ba-130
-26.45 To 971.0 %
Max Ratio
Min Ratio
Ba130-n.tendl Threshold 2.4527 MeV
Ba130.endfb7.1 Threshold 1.8588 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^1
10^0
2
6
4
2
6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
56-Ba-130

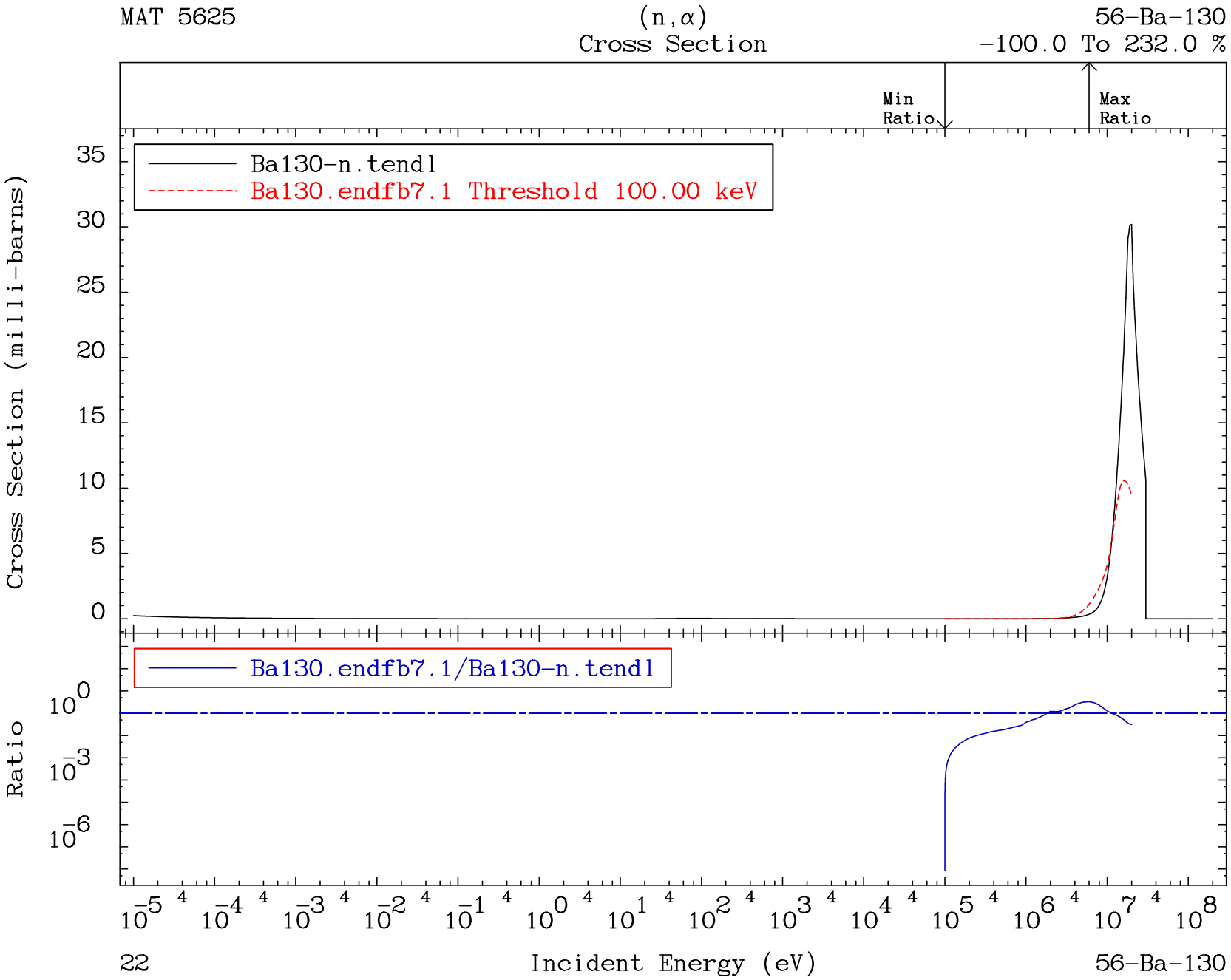

MAT 5625
(n,γ)
Cross Section
56-Ba-130
-93.80 To 9999. %
Max Ratio
Min Ratio
Ba130-n.tendl
Ba130.endfb7.1
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
17
56-Ba-130

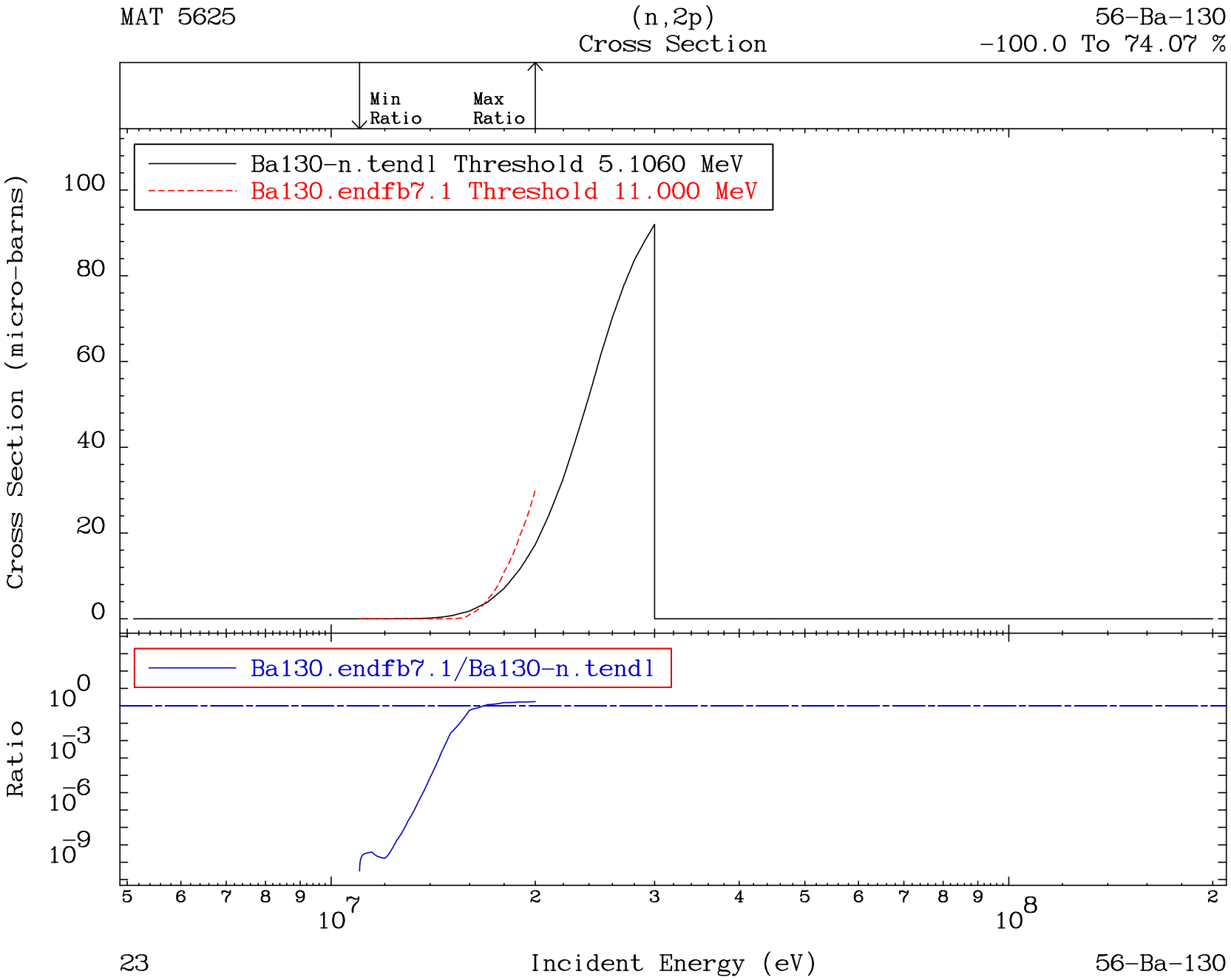

MAT 5625
(n,p)
Cross Section
56-Ba-130
-100.0 To 166.6 %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 3.6881 keV
Ba130.endfb7.1 Threshold 100.00 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^0
10^-3
10^-6
4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
18
Incident Energy (eV)
56-Ba-130

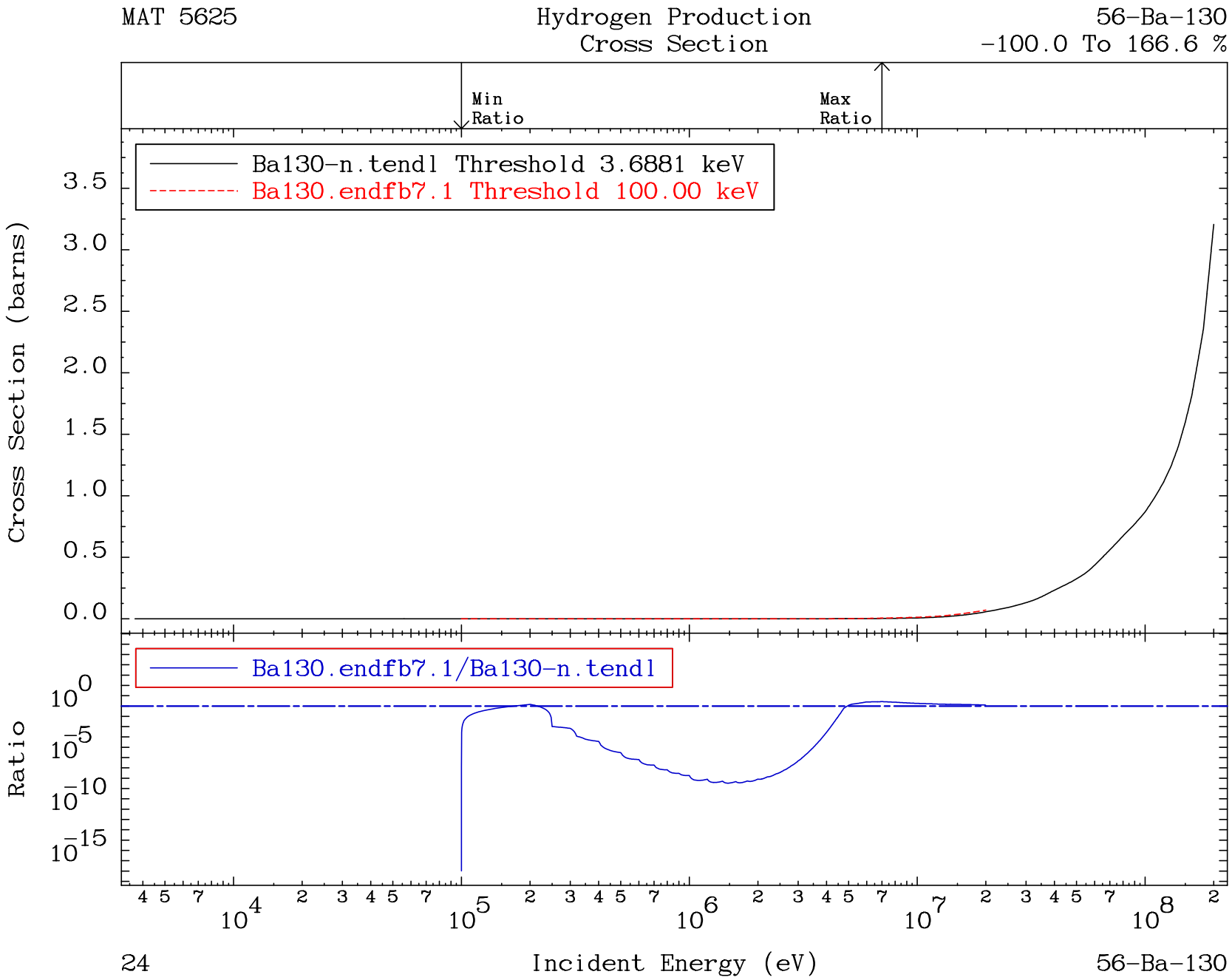

MAT 5625
(n,d)
Cross Section
56-Ba-130
-100.0 To 1044. %
Max Ratio
Min Ratio
Ba130-n.tendl Threshold 4.8644 MeV
Ba130.endfb7.1 Threshold 6.0000 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^2
10^0
10^-2
10^-4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
56-Ba-130

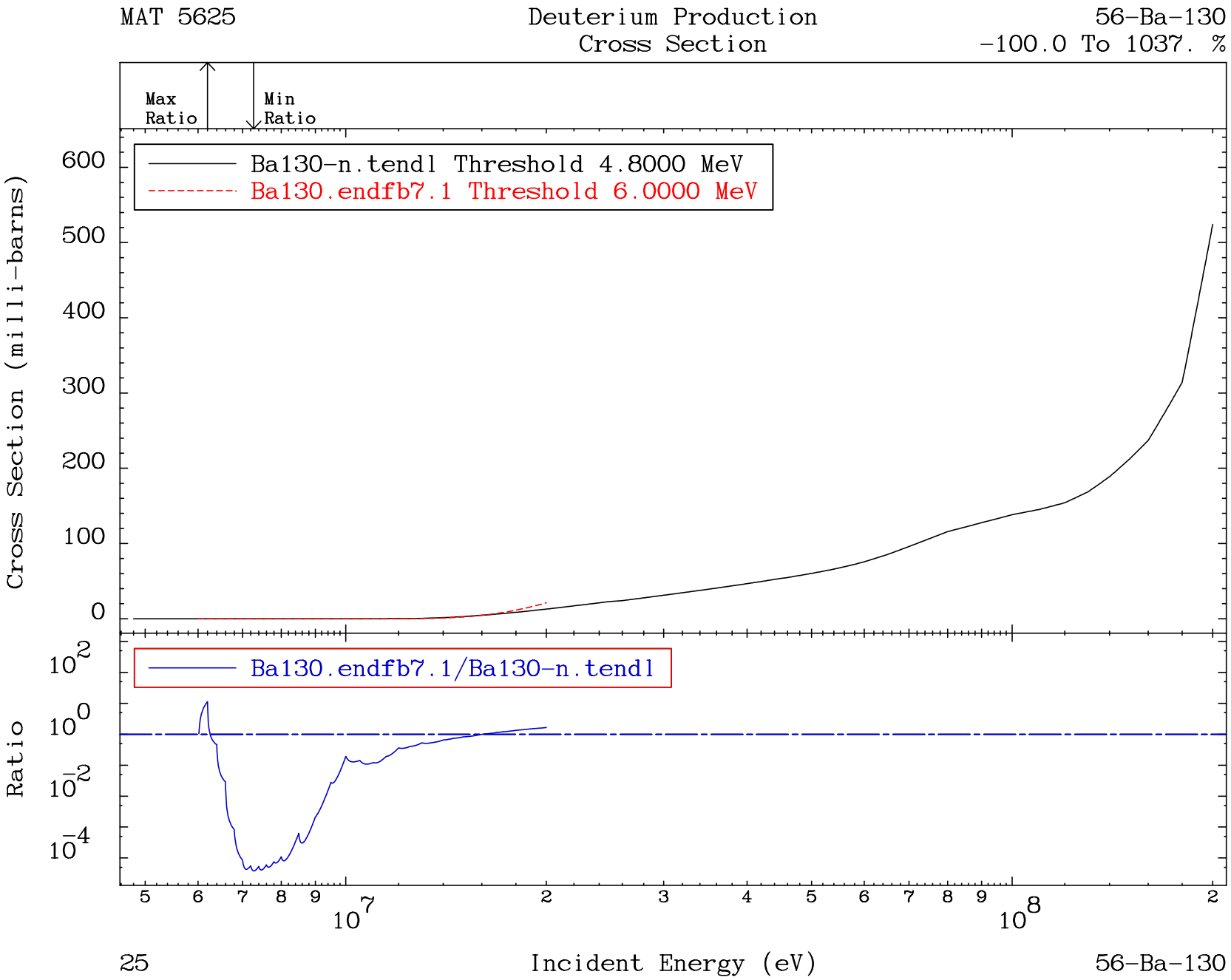

MAT 5625
(n,t)
Cross Section
56-Ba-130
-99.99 To 761.0 %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 8.2724 MeV
Ba130.endfb7.1 Threshold 10.000 MeV
Cross Section (milli-barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
20
56-Ba-130

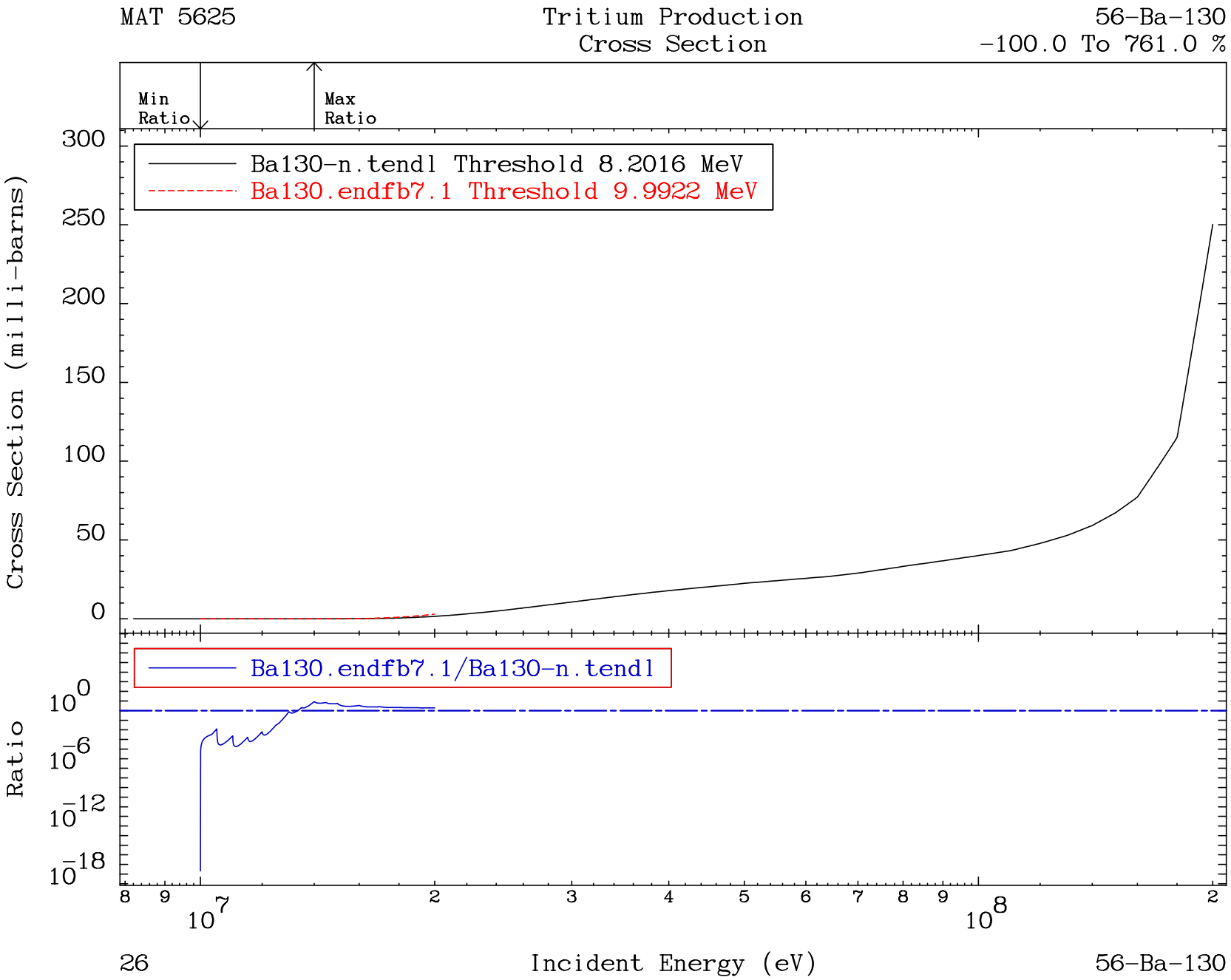

MAT 5625
(n,He-3)
Cross Section
56-Ba-130
-97.43 To 1619. %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 4.2944 MeV
Ba130.endfb7.1 Threshold 7.0883 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^1
10^0
10^-1
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
56-Ba-130

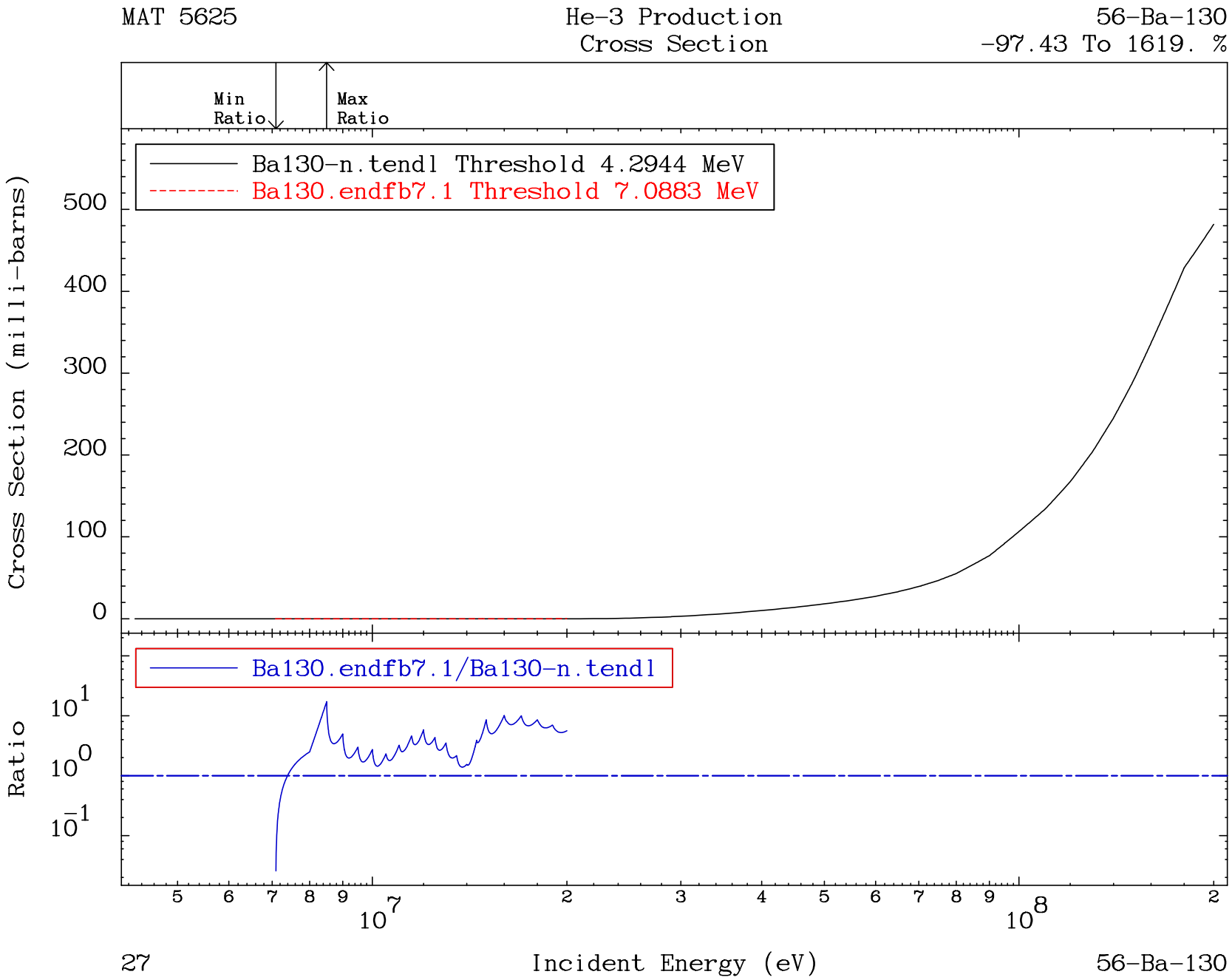

MAT 5625
(n,α)
Cross Section
56-Ba-130
-100.0 To 232.0 %
Min Ratio
Max Ratio
Ba130-n.tendl
Ba130.endfb7.1 Threshold 100.00 keV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^0
10^-3
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
22
Incident Energy (eV)
56-Ba-130

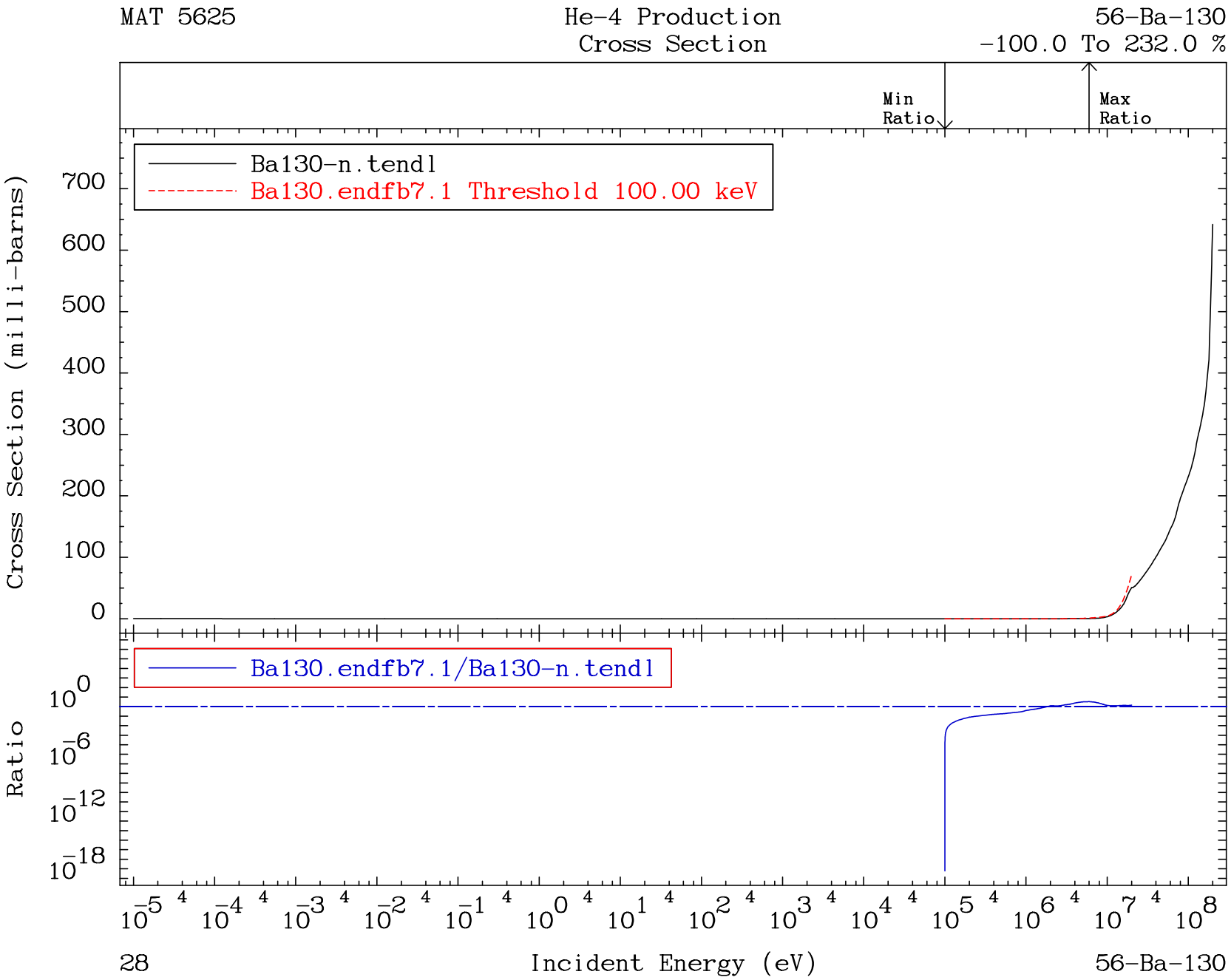

MAT 5625
(n,2p)
Cross Section
56-Ba-130
-100.0 To 74.07 %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 5.1060 MeV
Ba130.endfb7.1 Threshold 11.000 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
56-Ba-130

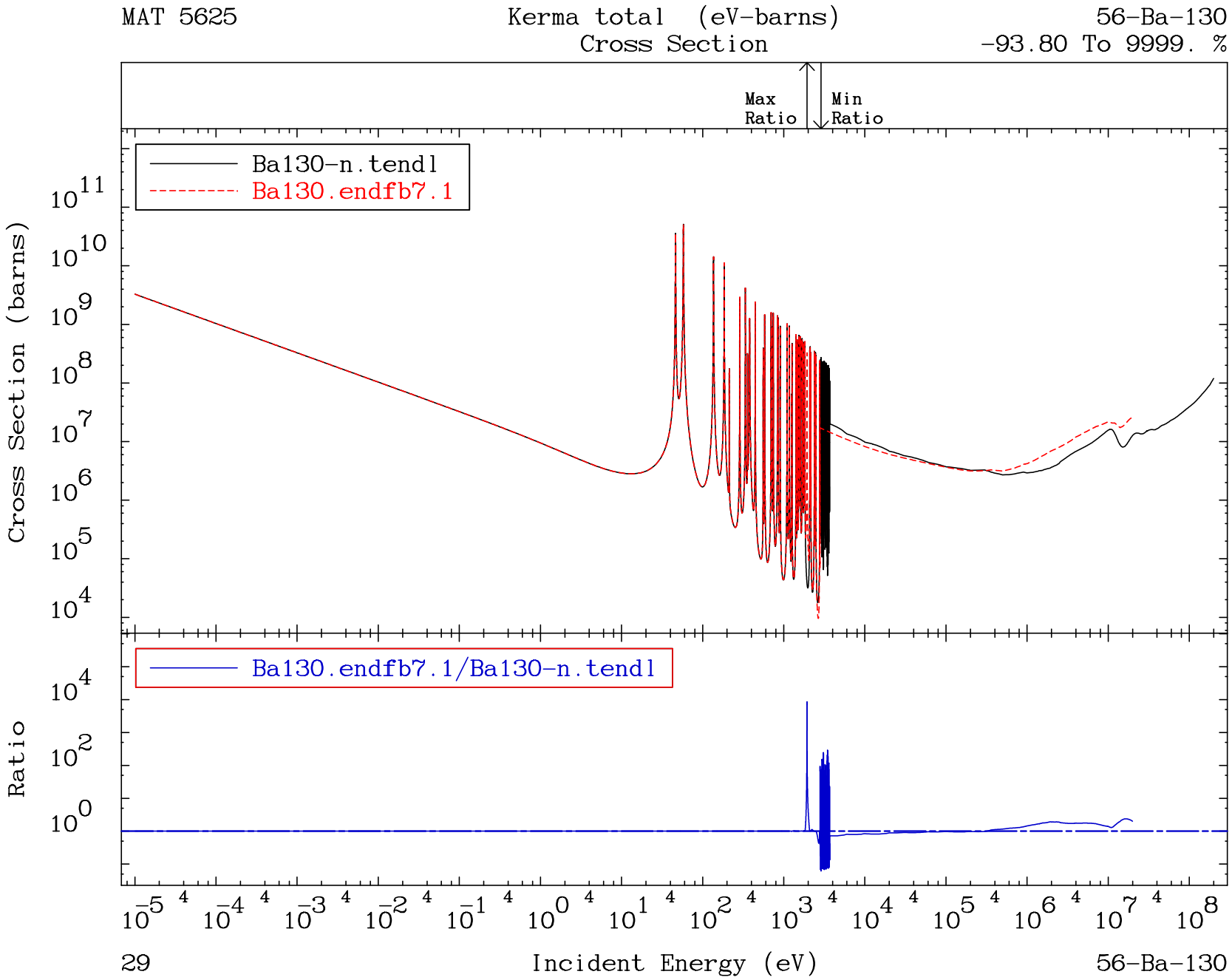

MAT 5625
Hydrogen Production
Cross Section
56-Ba-130
-100.0 To 166.6 %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 3.6881 keV
Ba130.endfb7.1 Threshold 100.00 keV
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
24
56-Ba-130

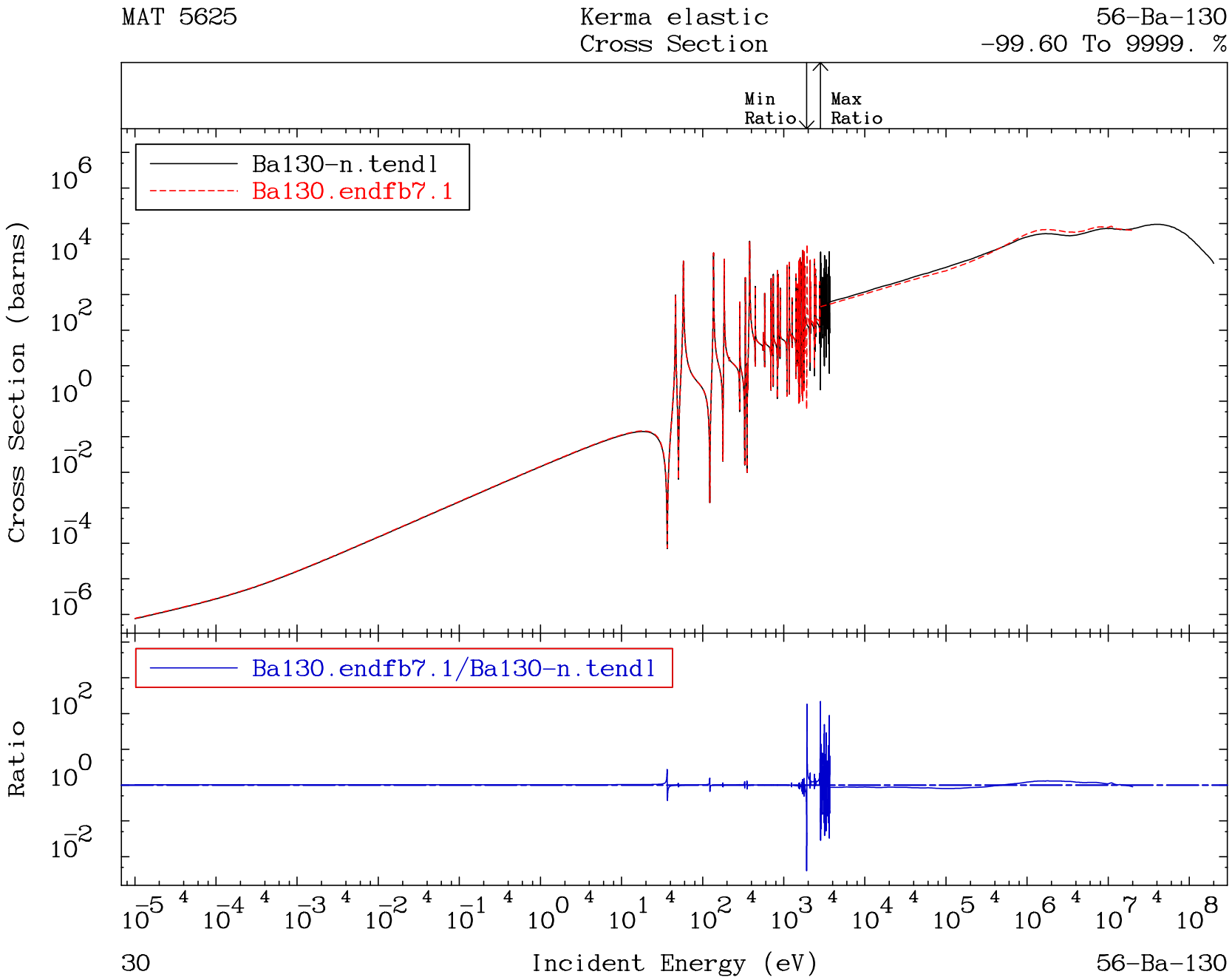

MAT 5625
Deuterium Production
Cross Section
56-Ba-130
-100.0 To 1037. %
Max Ratio
Min Ratio
Ba130-n.tendl Threshold 4.8000 MeV
Ba130.endfb7.1 Threshold 6.0000 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^2
10^0
10^-2
10^-4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
56-Ba-130

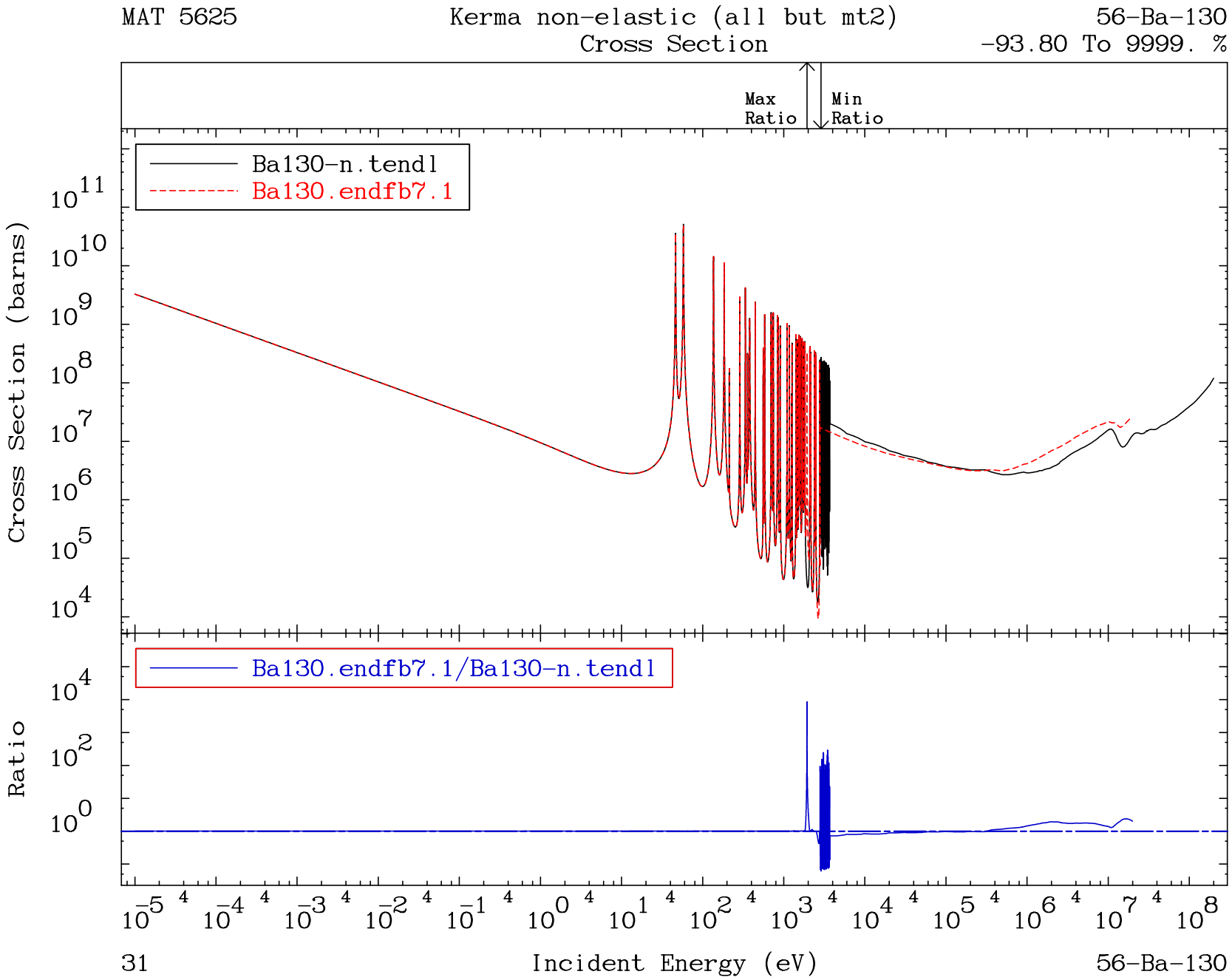

MAT 5625
Tritium Production
Cross Section
56-Ba-130
-100.0 To 761.0 %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 8.2016 MeV
Ba130.endfb7.1 Threshold 9.9922 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^0
10^-6
10^-12
10^-18
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
56-Ba-130

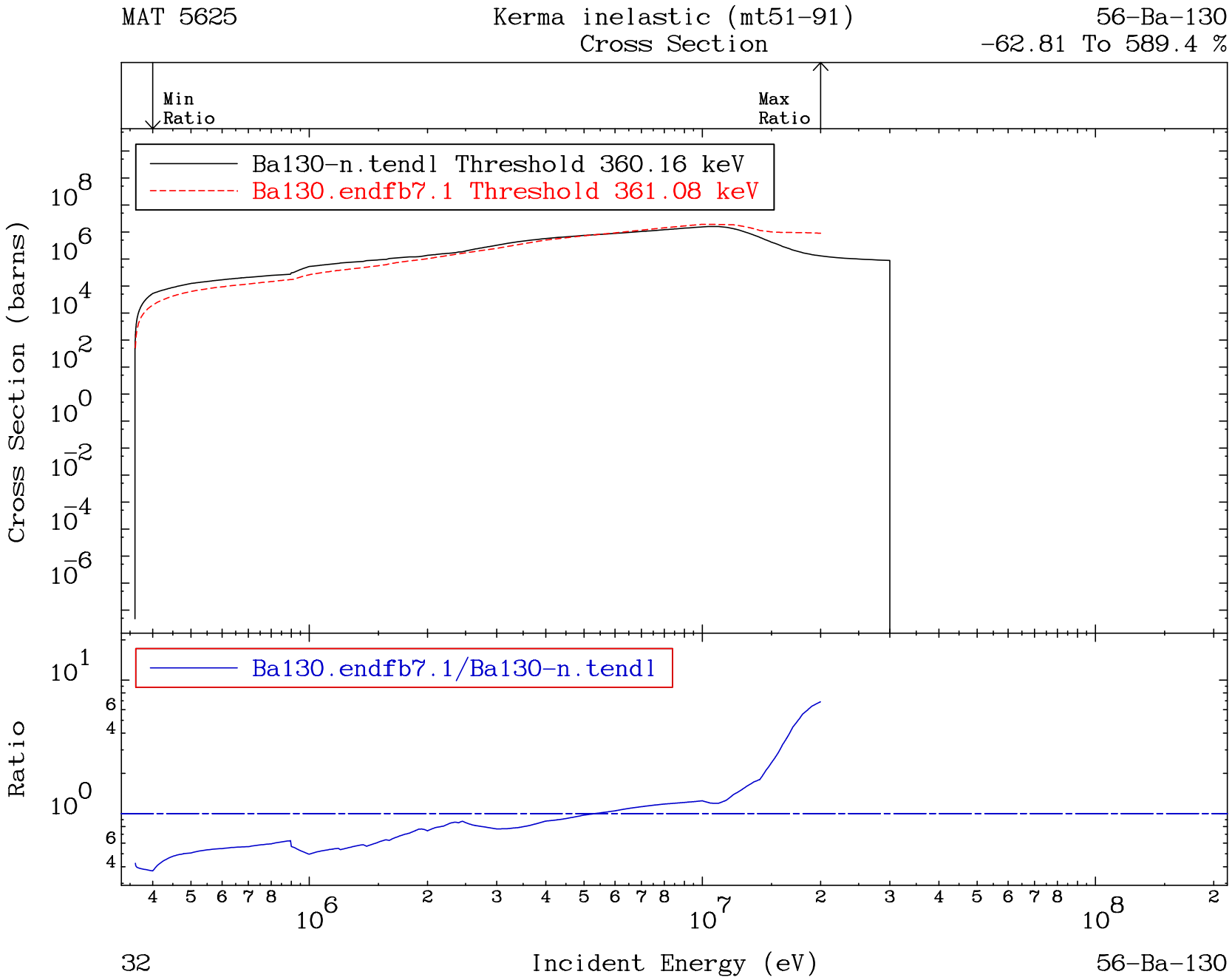

MAT 5625
He-3 Production
Cross Section
56-Ba-130
-97.43 To 1619. %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 4.2944 MeV
Ba130.endfb7.1 Threshold 7.0883 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^1
10^0
10^-1
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
56-Ba-130

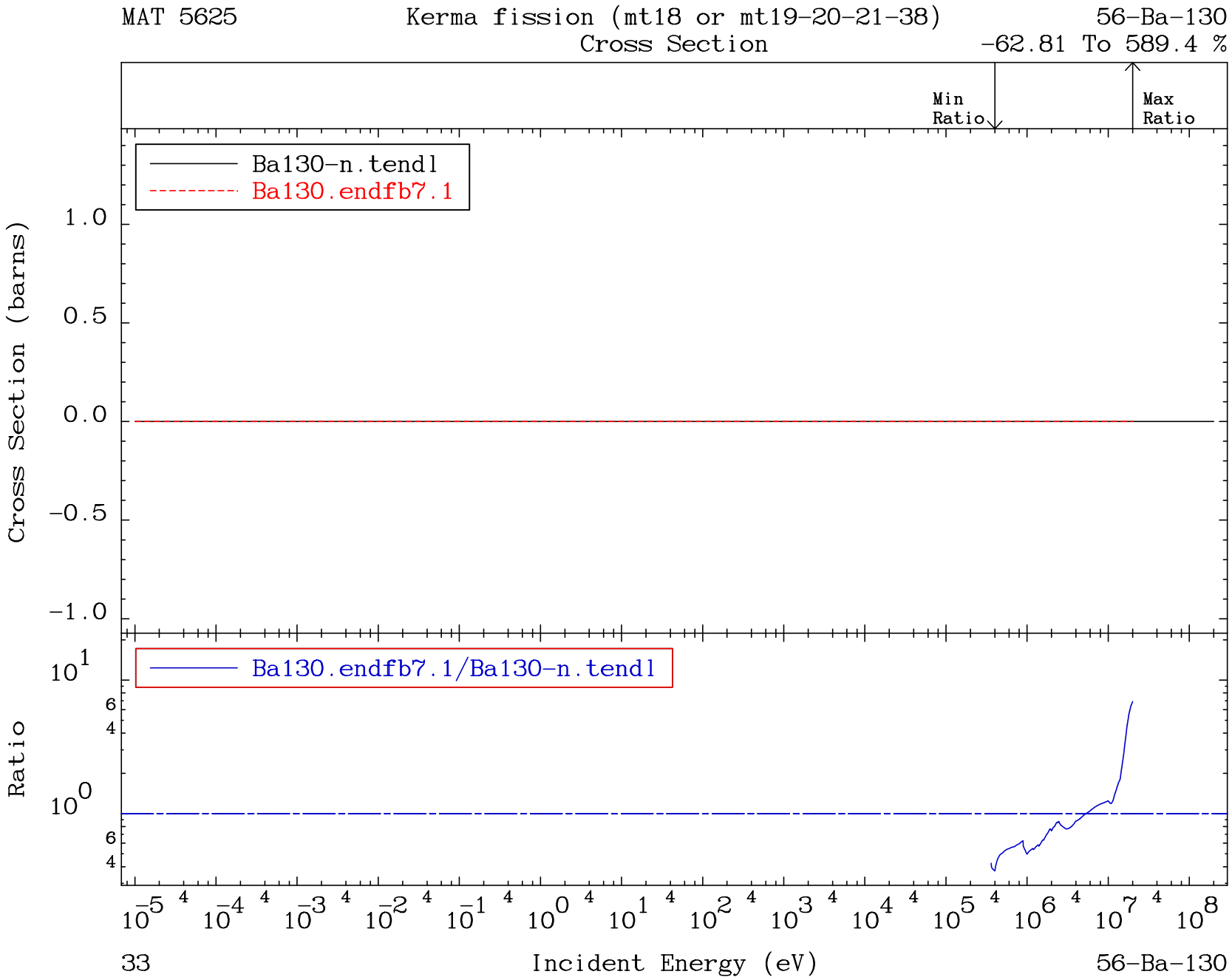

MAT 5625
He-4 Production
Cross Section
56-Ba-130
-100.0 To 232.0 %
Min Ratio
Max Ratio
Ba130-n.tendl
Ba130.endfb7.1 Threshold 100.00 keV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^0
10^-6
10^-12
10^-18
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
28
Incident Energy (eV)
56-Ba-130

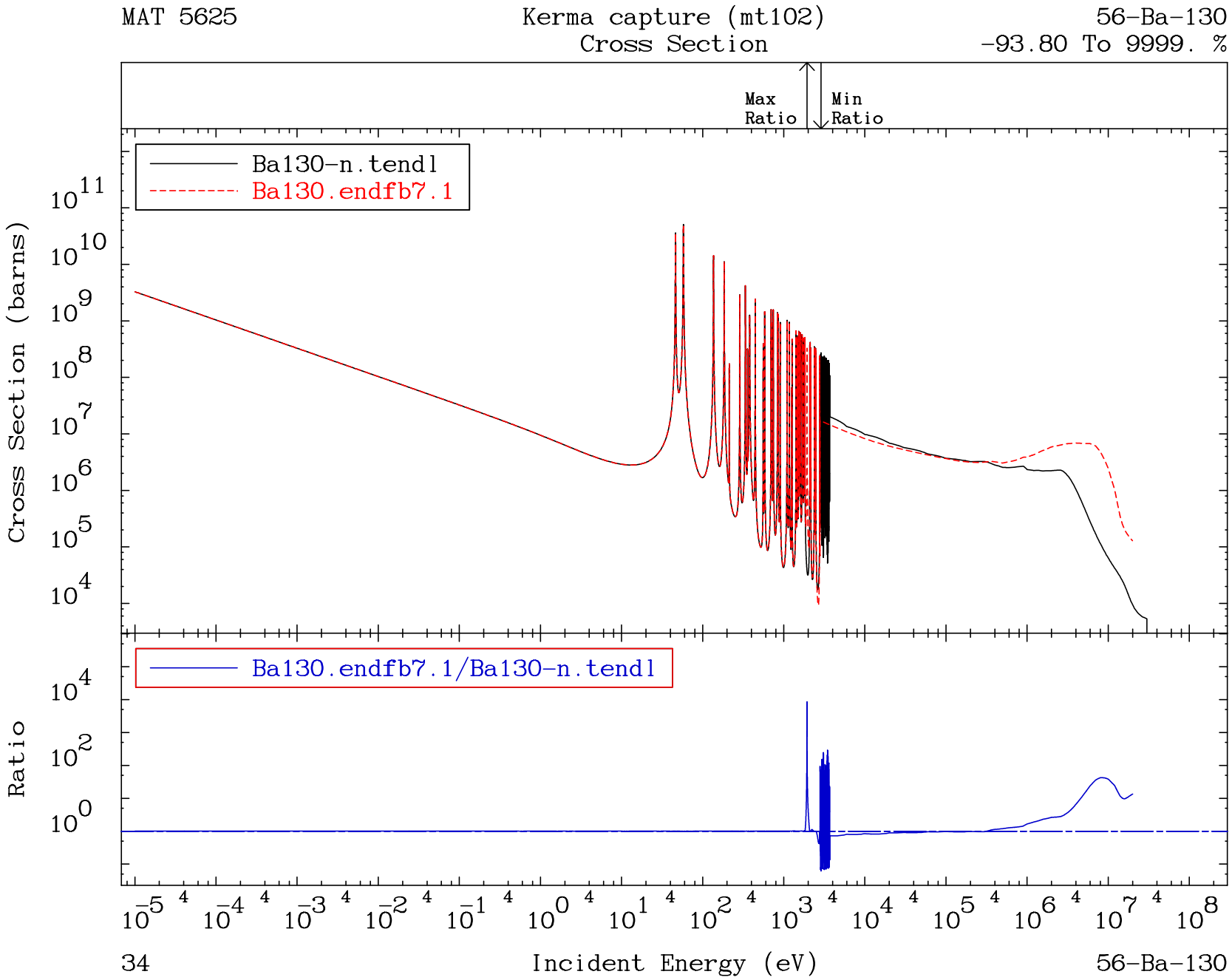

MAT 5625
Kerma total (eV-barns)
Cross Section
56-Ba-130
-93.80 To 9999. %
Max Ratio
Min Ratio
Ba130-n.tendl
Ba130.endfb7.1
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
29
56-Ba-130

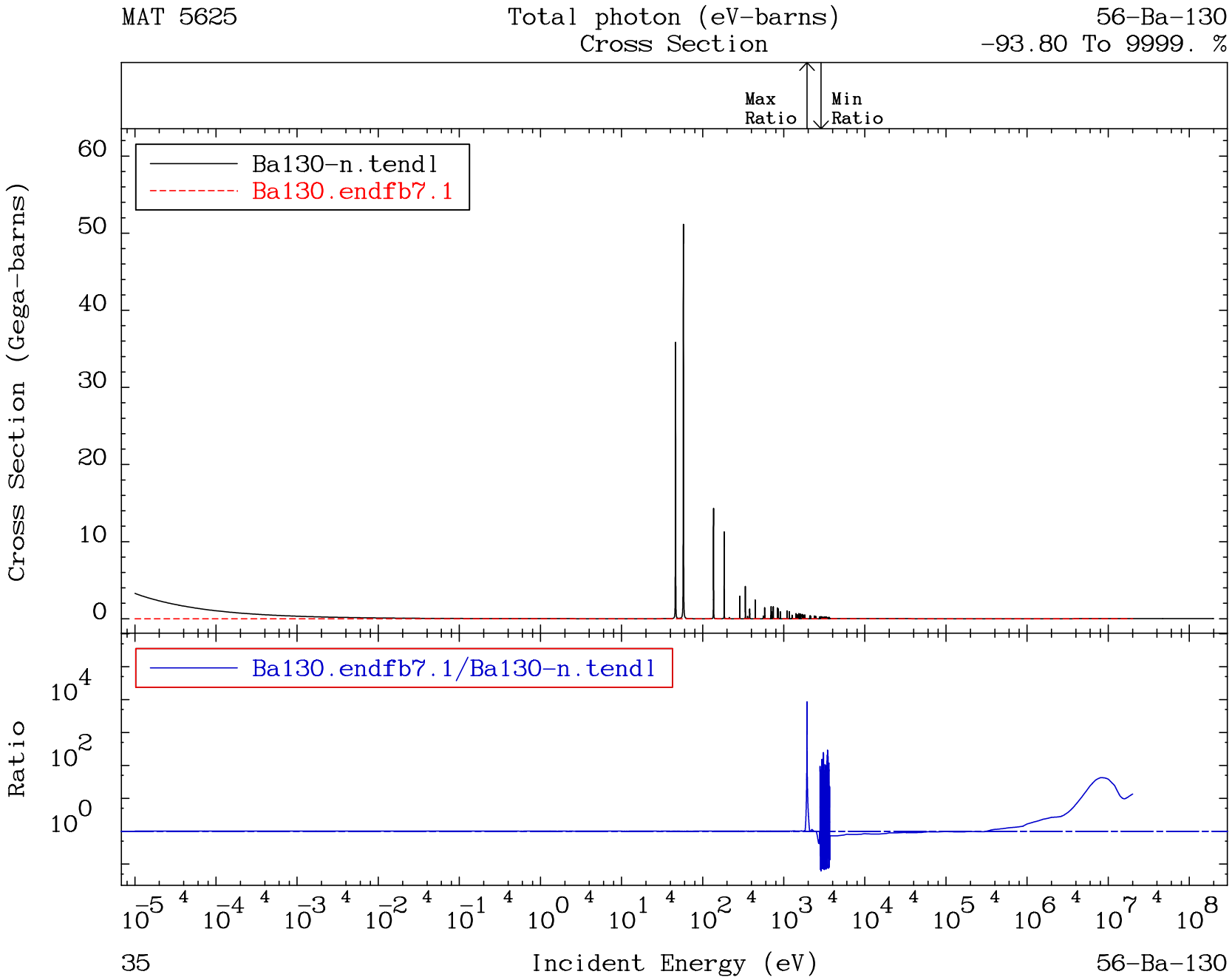

MAT 5625
Kerma elastic
Cross Section
56-Ba-130
-99.60 To 9999. %
Min Ratio
Max Ratio
Ba130-n.tendl
Ba130.endfb7.1
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
30
56-Ba-130

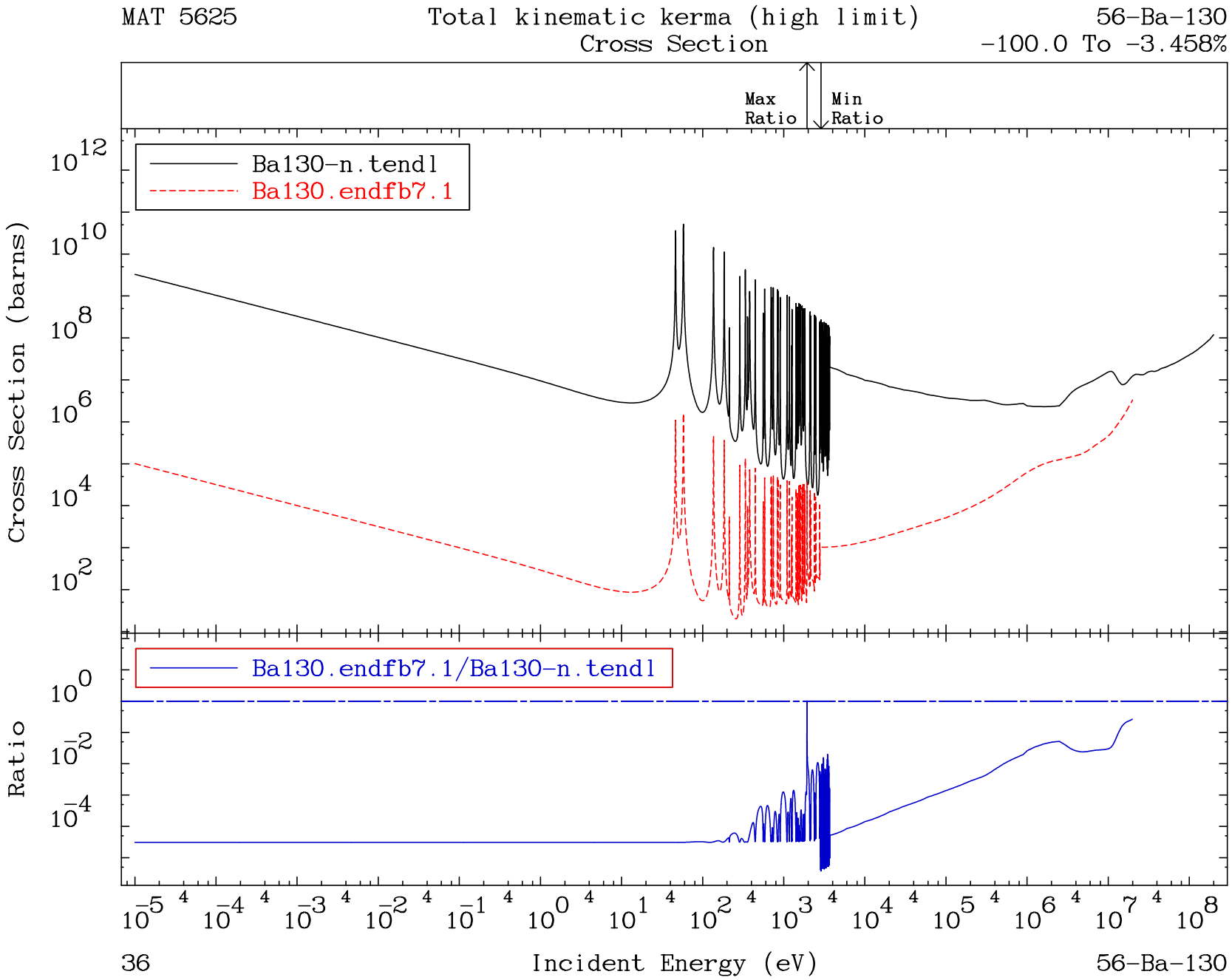

MAT 5625
Kerma non-elastic (all but mt2)
Cross Section
56-Ba-130
-93.80 To 9999. %
Max Ratio
Min Ratio
Ba130-n.tendl
Ba130.endfb7.1
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
31
56-Ba-130

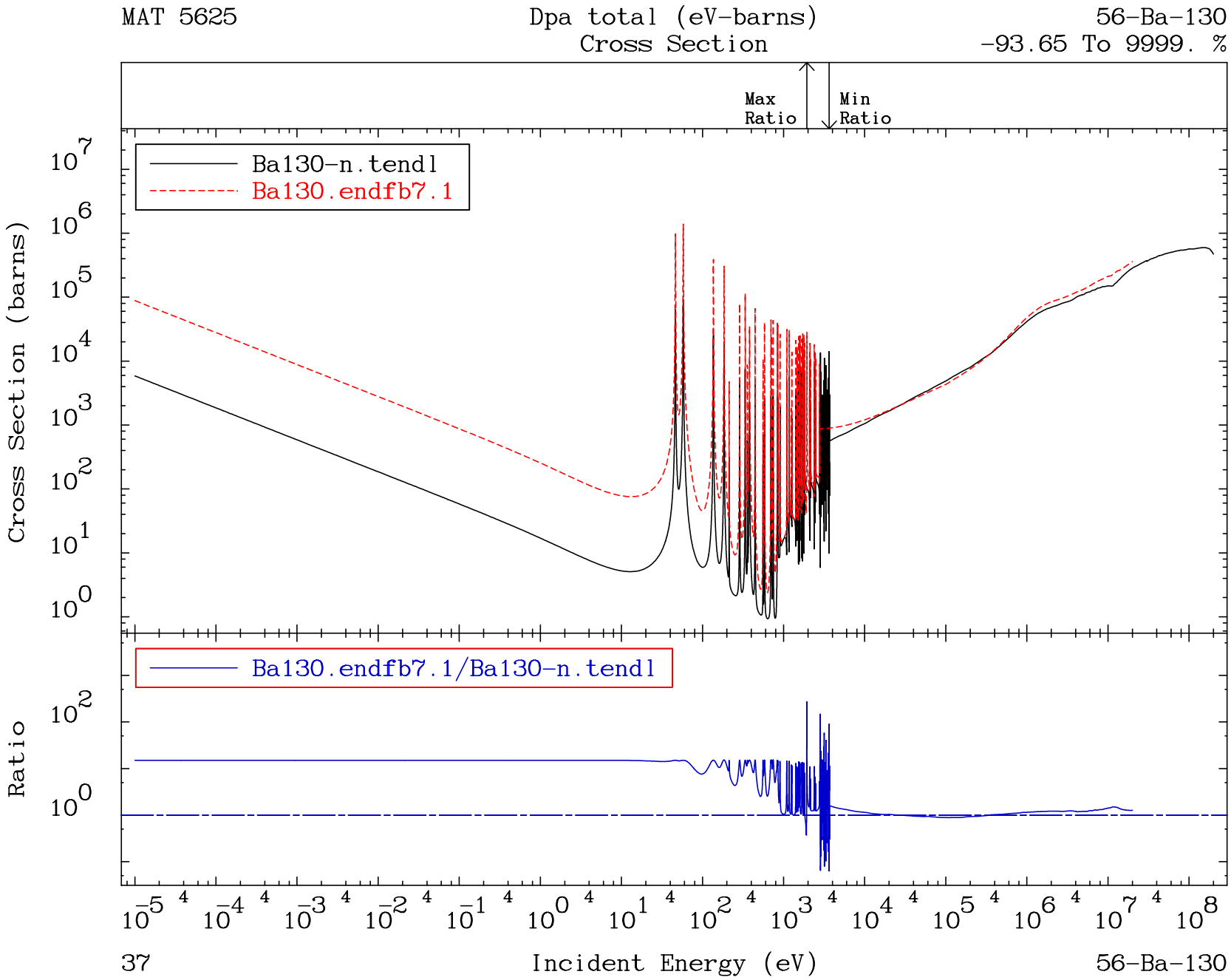

MAT 5625
Kerma inelastic (mt51-91)
Cross Section
56-Ba-130
-62.81 To 589.4 %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 360.16 keV
Ba130.endfb7.1 Threshold 361.08 keV
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
32
56-Ba-130

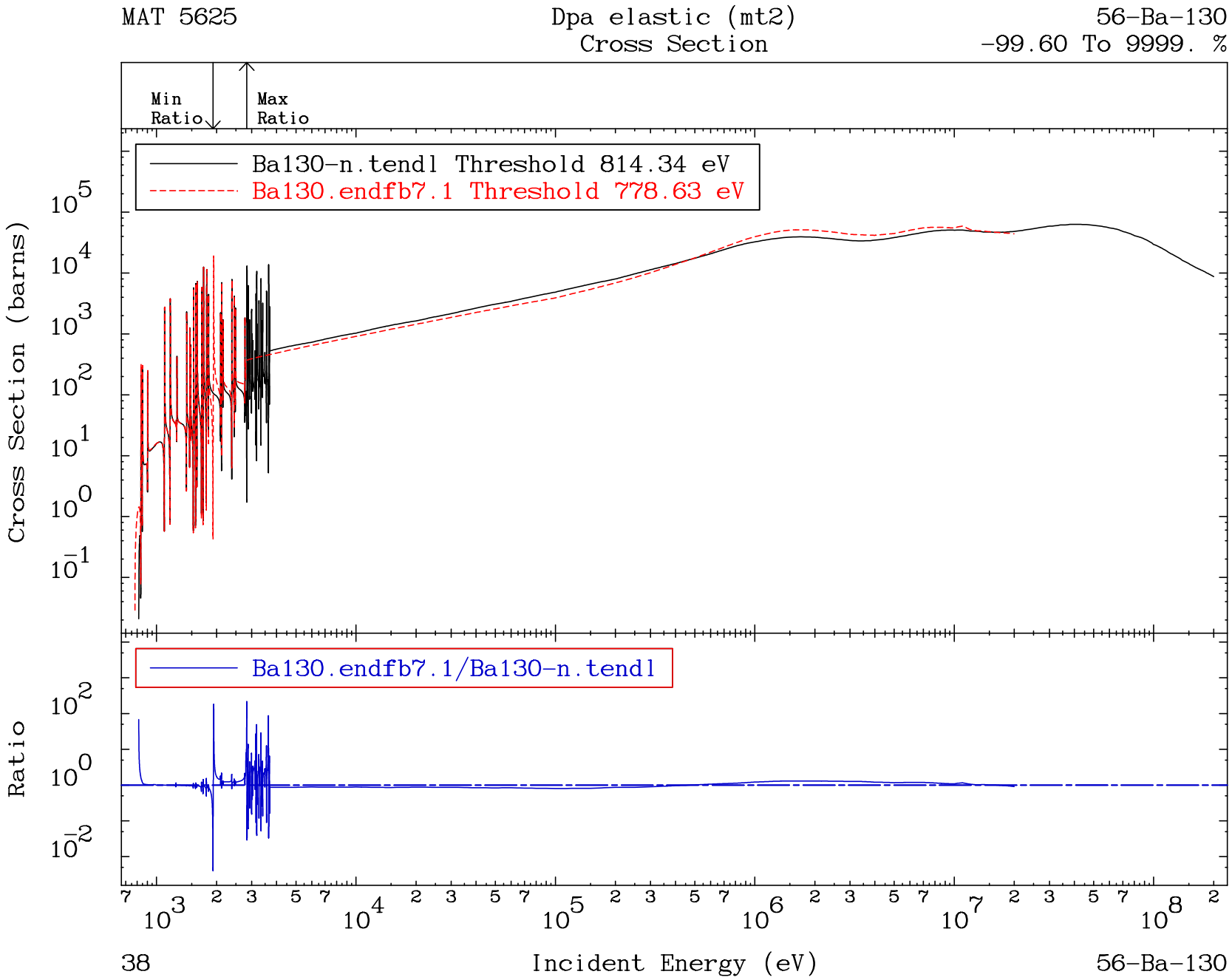

MAT 5625
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
56-Ba-130
-62.81 To 589.4 %
Min Ratio
Max Ratio
Ba130-n.tendl
Ba130.endfb7.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^1
10^0
6
4
6
4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
33
Incident Energy (eV)
56-Ba-130

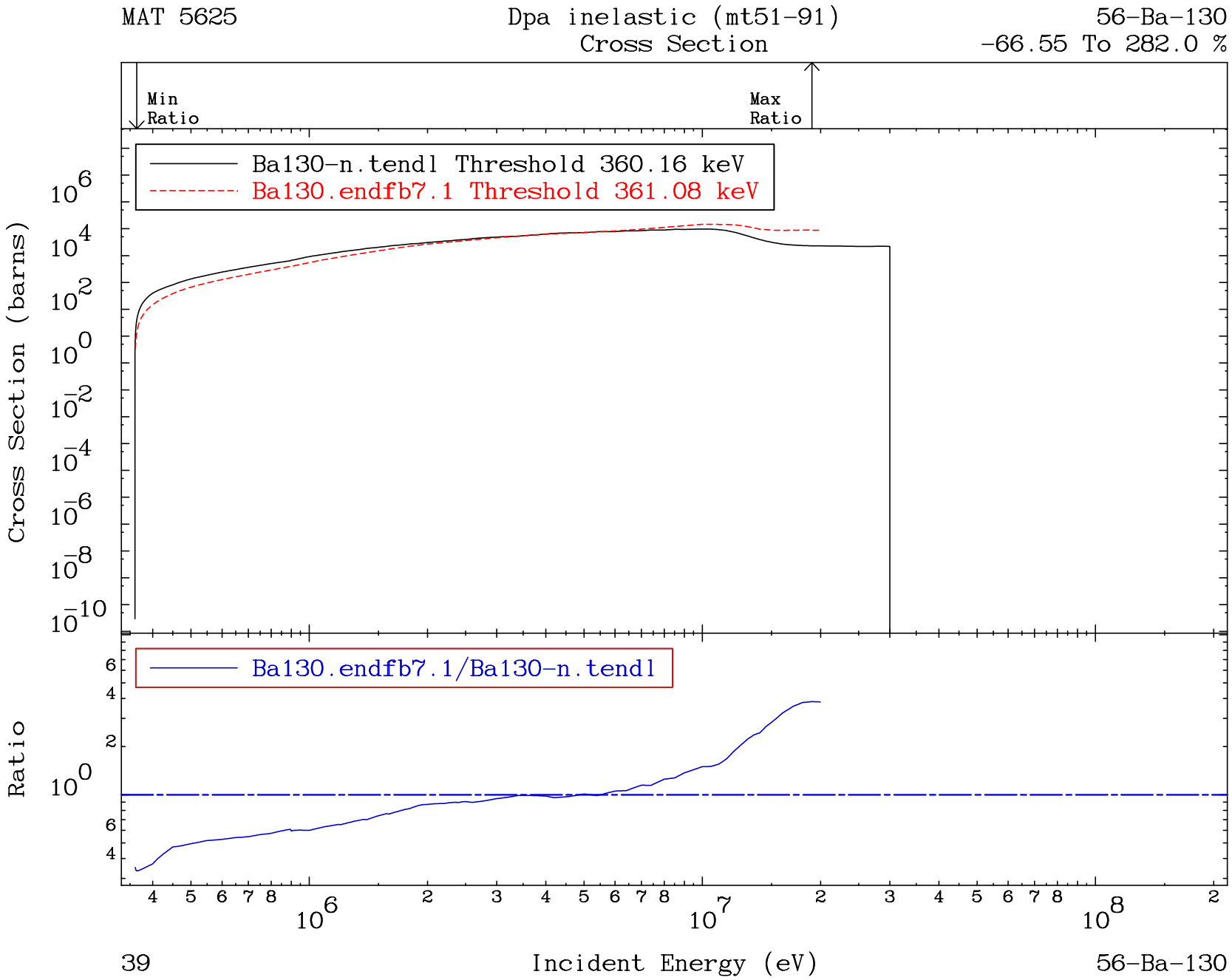

MAT 5625
Kerma capture (mt102)
Cross Section
56-Ba-130
-93.80 To 9999. %
Max Ratio
Min Ratio
Ba130-n.tendl
Ba130.endfb7.1
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
34
56-Ba-130

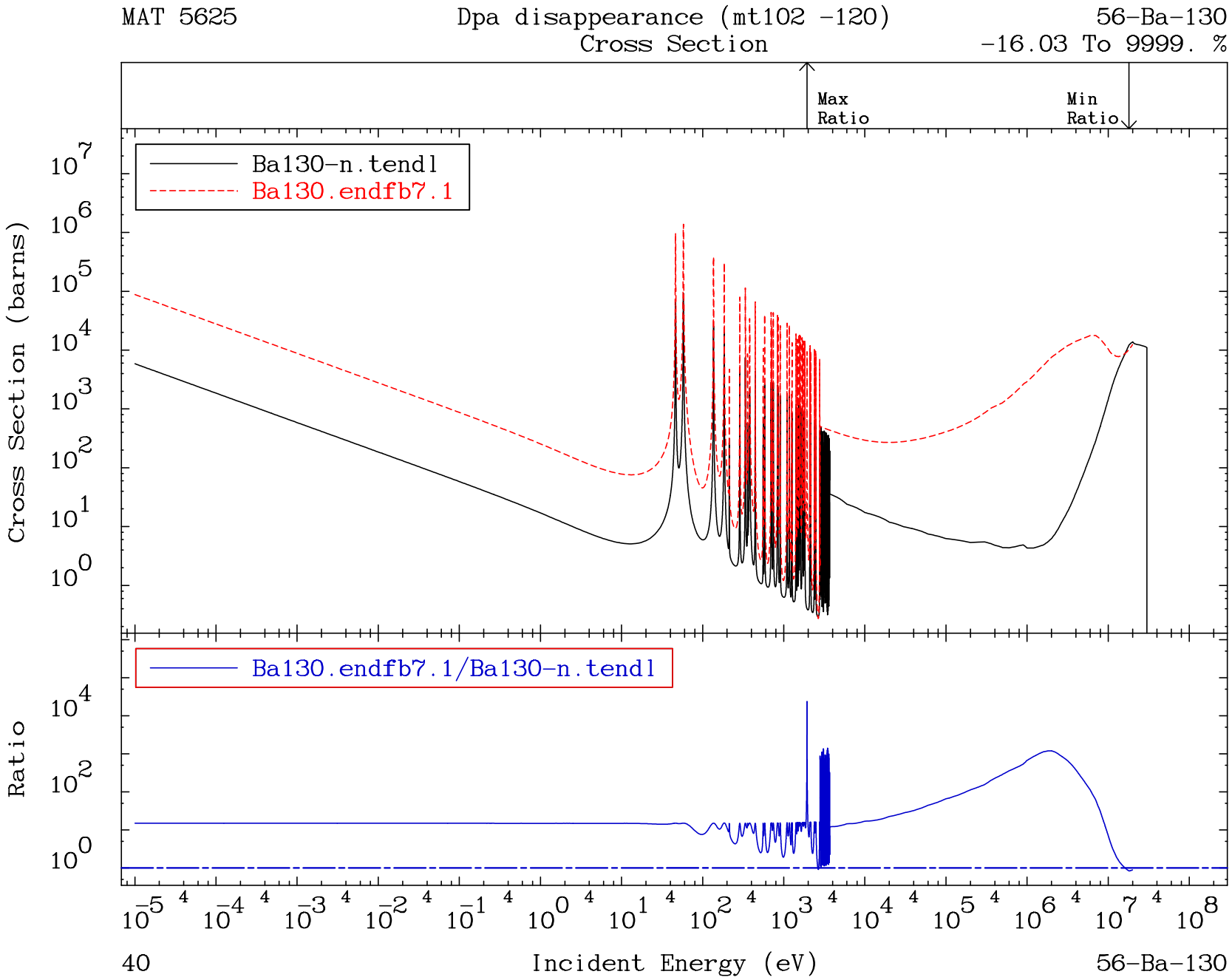

MAT 5625
Total photon (eV-barns)
Cross Section
56-Ba-130
-93.80 To 9999. %
Max Ratio
Min Ratio
Ba130-n.tendl
Ba130.endfb7.1
Cross Section (Giga-barns)
60
50
40
30
20
10
0
Ba130.endfb7.1/Ba130-n.tendl
Ratio
10^4
10^2
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
35
Incident Energy (eV)
56-Ba-130


MAT 5625
Total kinematic kerma (high limit)
Cross Section
56-Ba-130
-100.0 To -3.458%
Max Ratio
Min Ratio
Ba130-n.tendl
Ba130.endfb7.1
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
36
56-Ba-130


MAT 5625
Dpa total (eV-barns)
Cross Section
56-Ba-130
-93.65 To 9999. %
Max Ratio
Min Ratio
Ba130-n.tendl
Ba130.endfb7.1
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
37
56-Ba-130


MAT 5625
Dpa elastic (mt2)
Cross Section
56-Ba-130
-99.60 To 9999. %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 814.34 eV
Ba130.endfb7.1 Threshold 778.63 eV
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
38
56-Ba-130


MAT 5625
Dpa inelastic (mt51-91)
Cross Section
56-Ba-130
-66.55 To 282.0 %
Min Ratio
Max Ratio
Ba130-n.tendl Threshold 360.16 keV
Ba130.endfb7.1 Threshold 361.08 keV
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
39
56-Ba-130


MAT 5625
Dpa disappearance (mt102 -120)
Cross Section
56-Ba-130
-16.03 To 9999. %
Max Ratio
Min Ratio
Ba130-n.tendl
Ba130.endfb7.1
Cross Section (barns)
Ba130.endfb7.1/Ba130-n.tendl
Ratio
Incident Energy (eV)
40
56-Ba-130