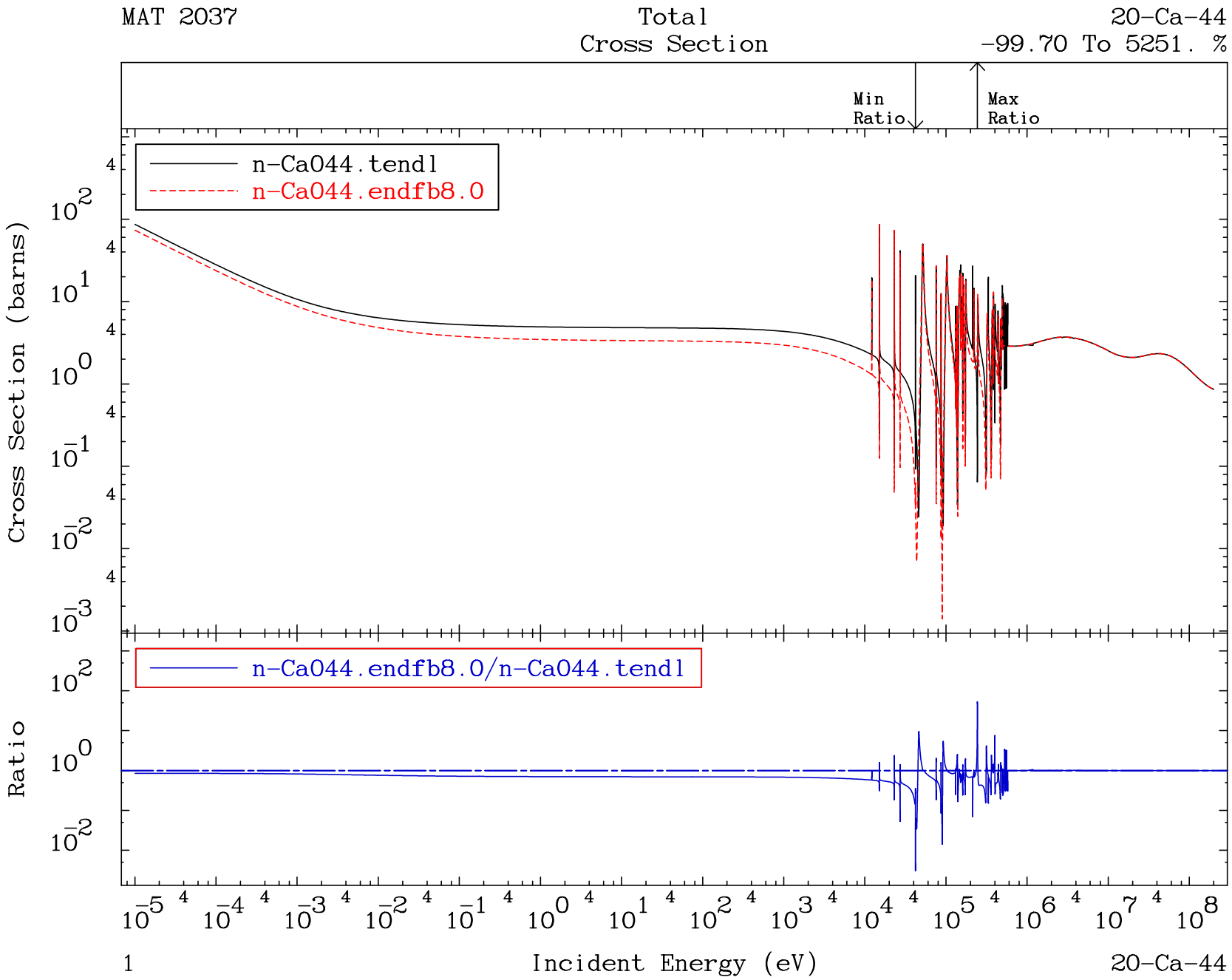
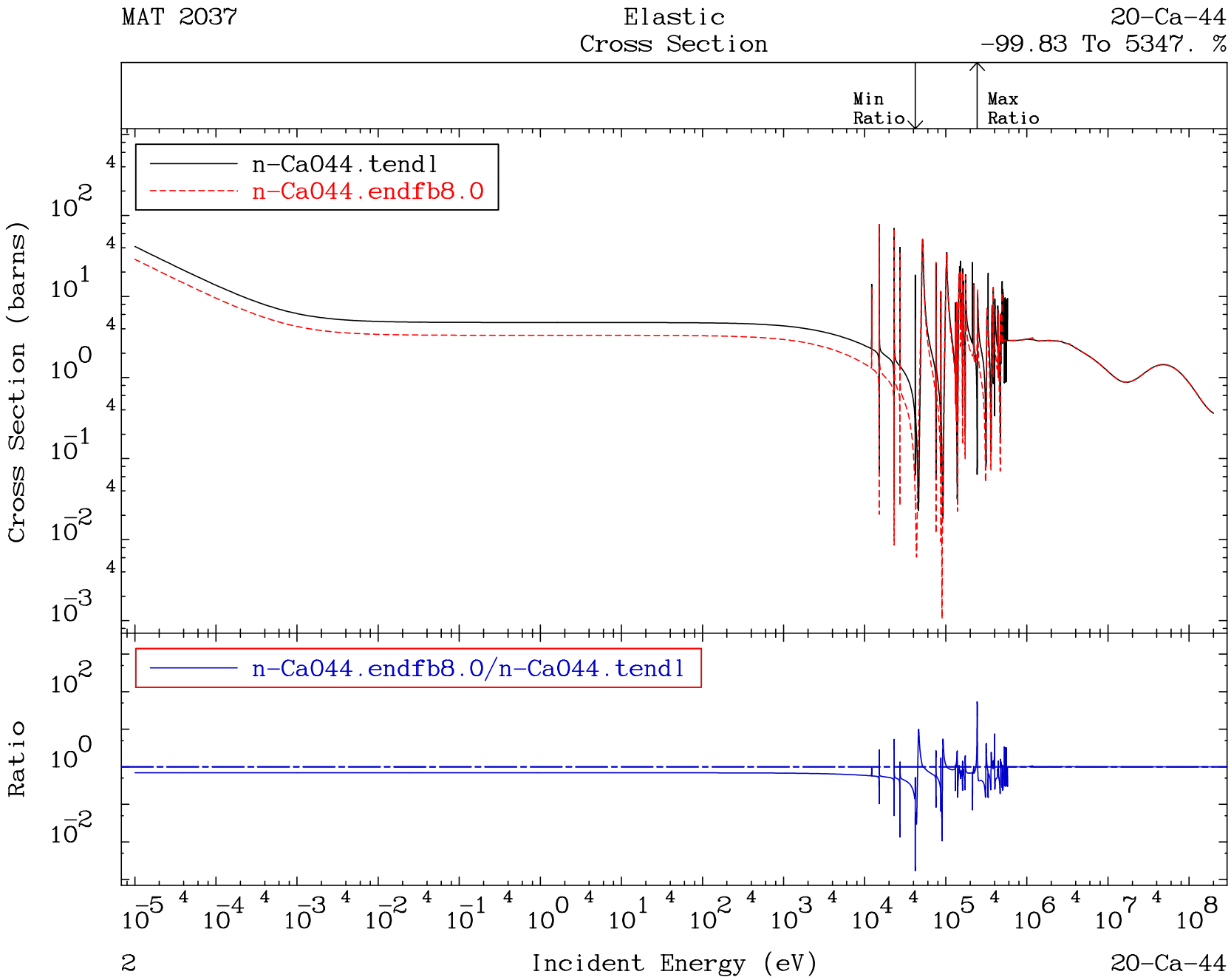
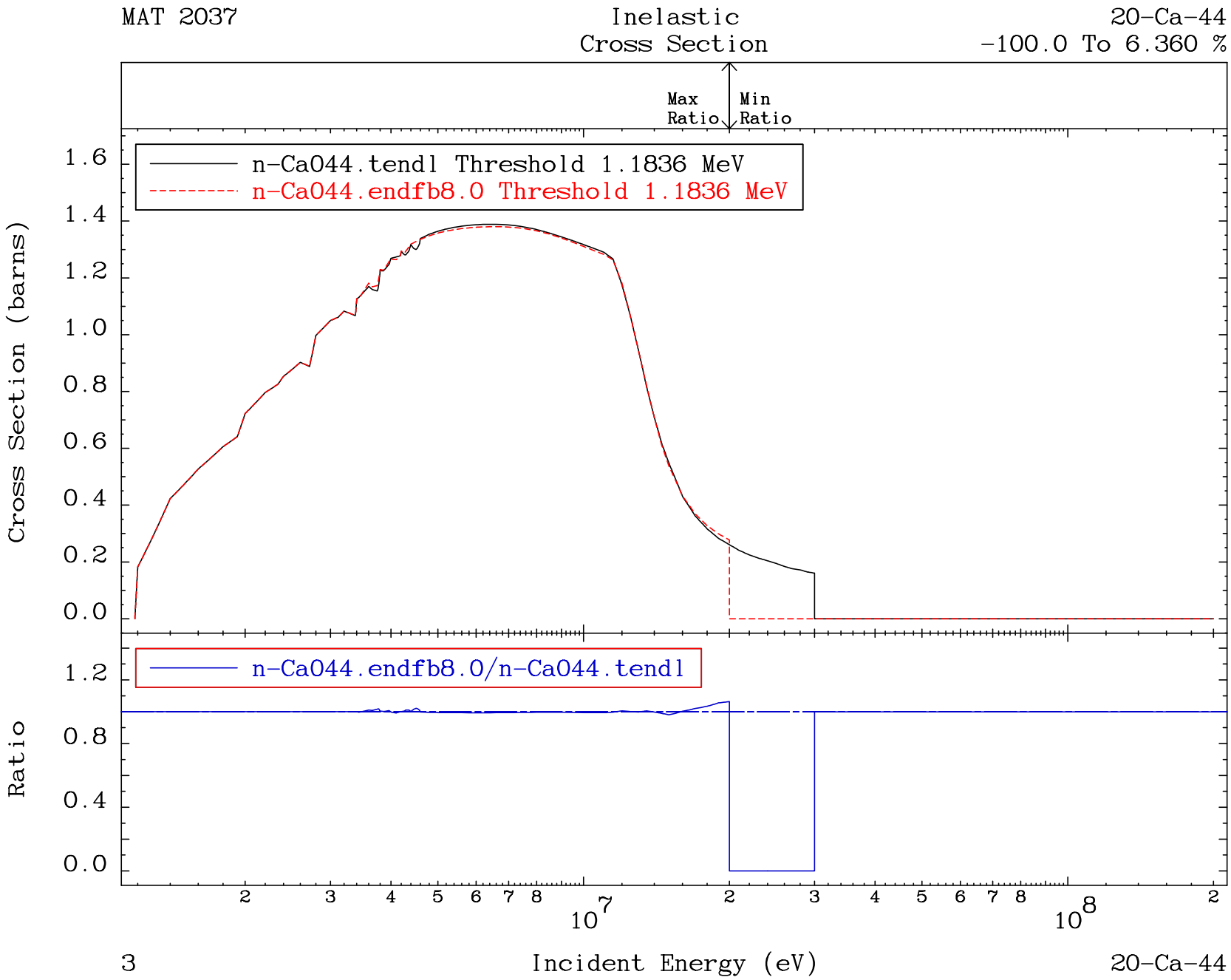
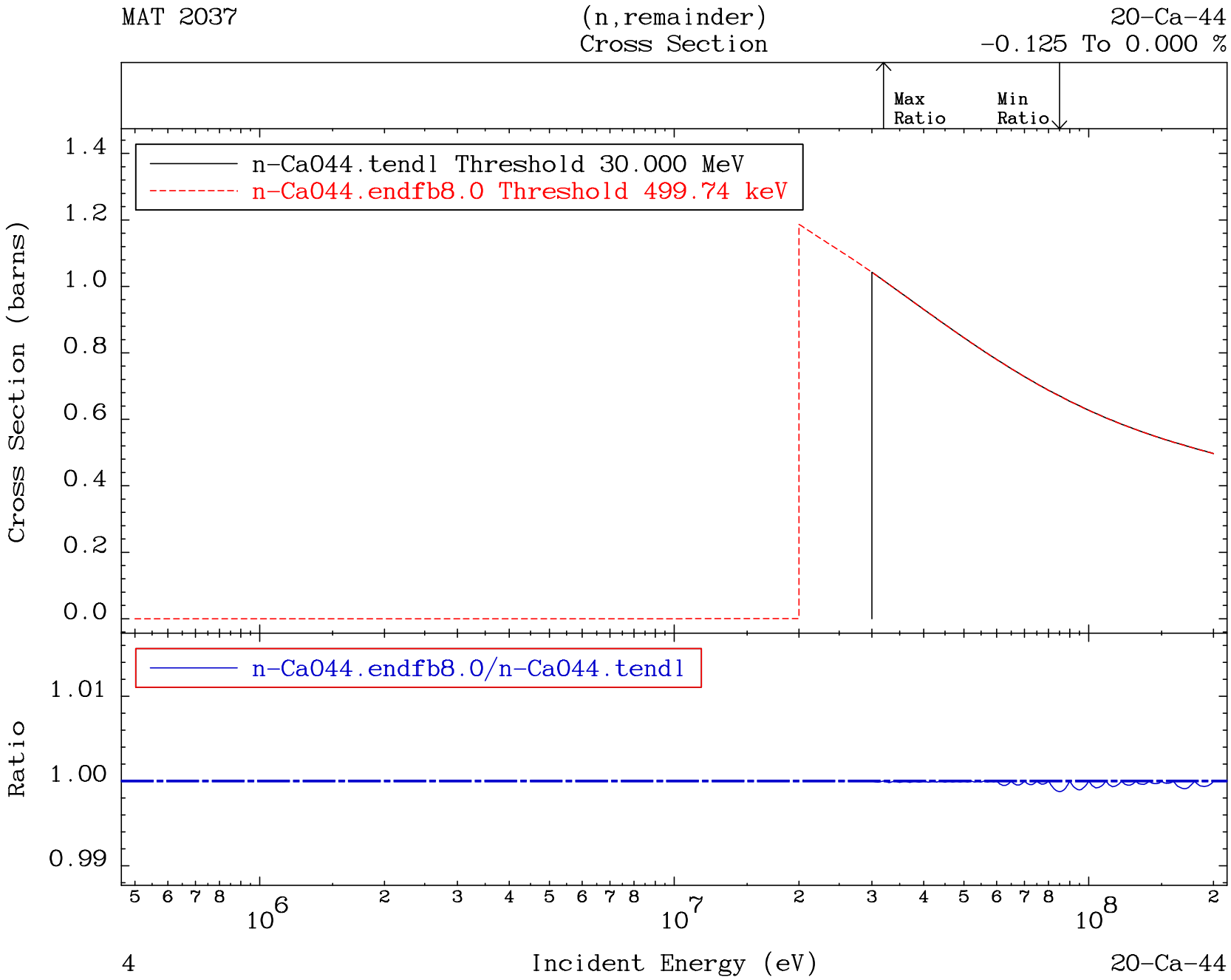
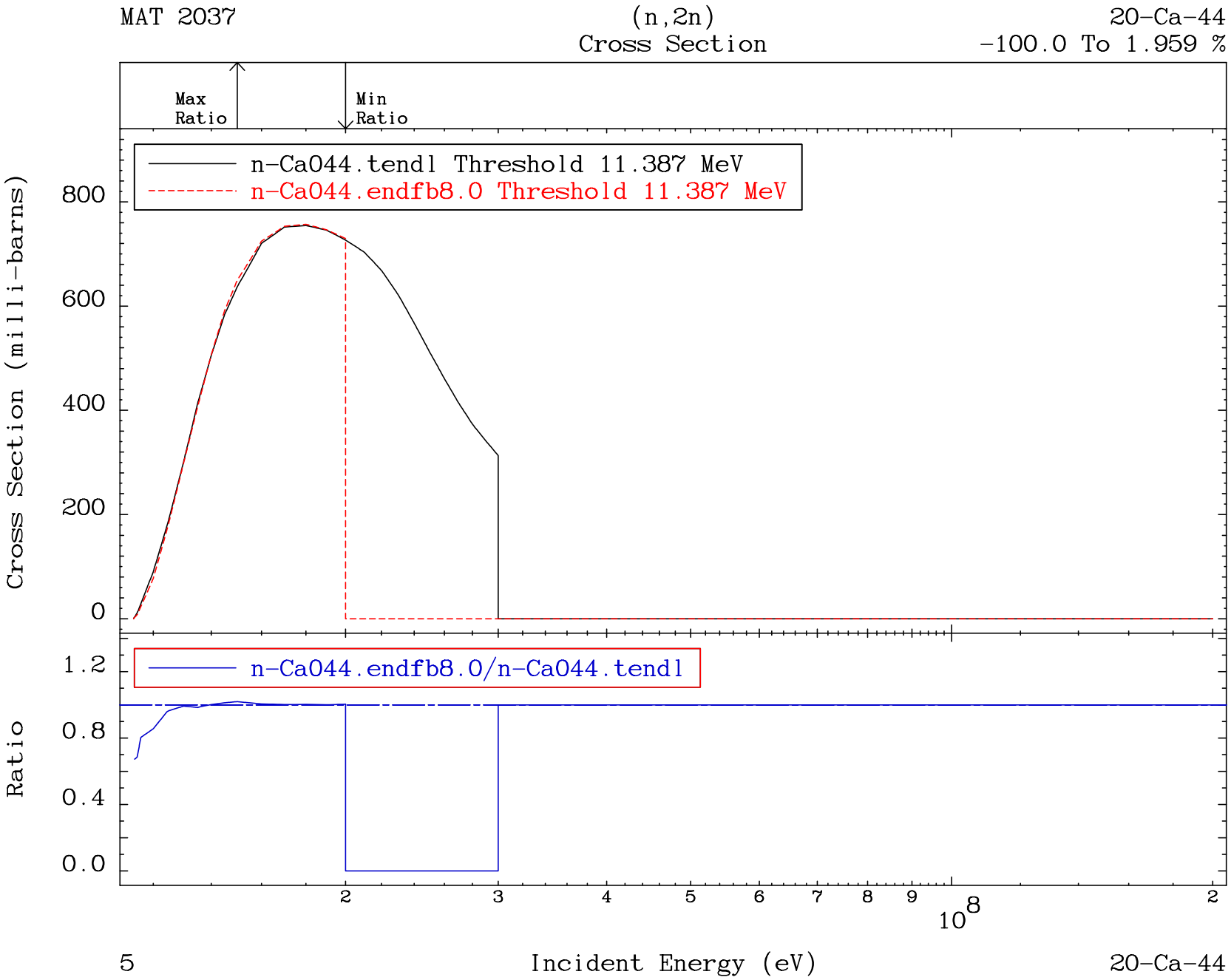
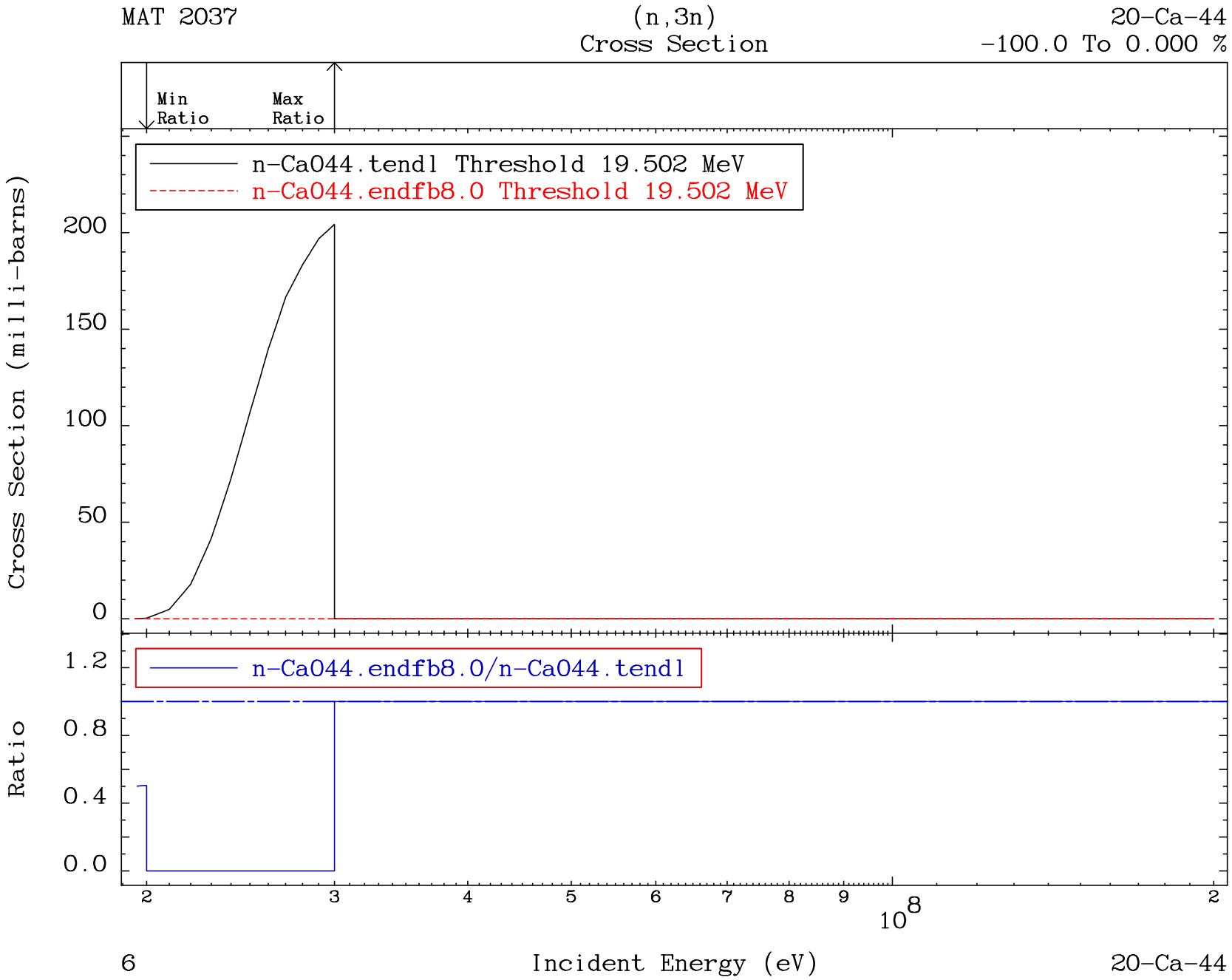

MAT 2037
Total
Cross Section
20-Ca-44
-99.70 To 5251. %
Min
Ratio
Max
Ratio
n-Ca044.tendl
n-Ca044.endfb8.0
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
1
20-Ca-44

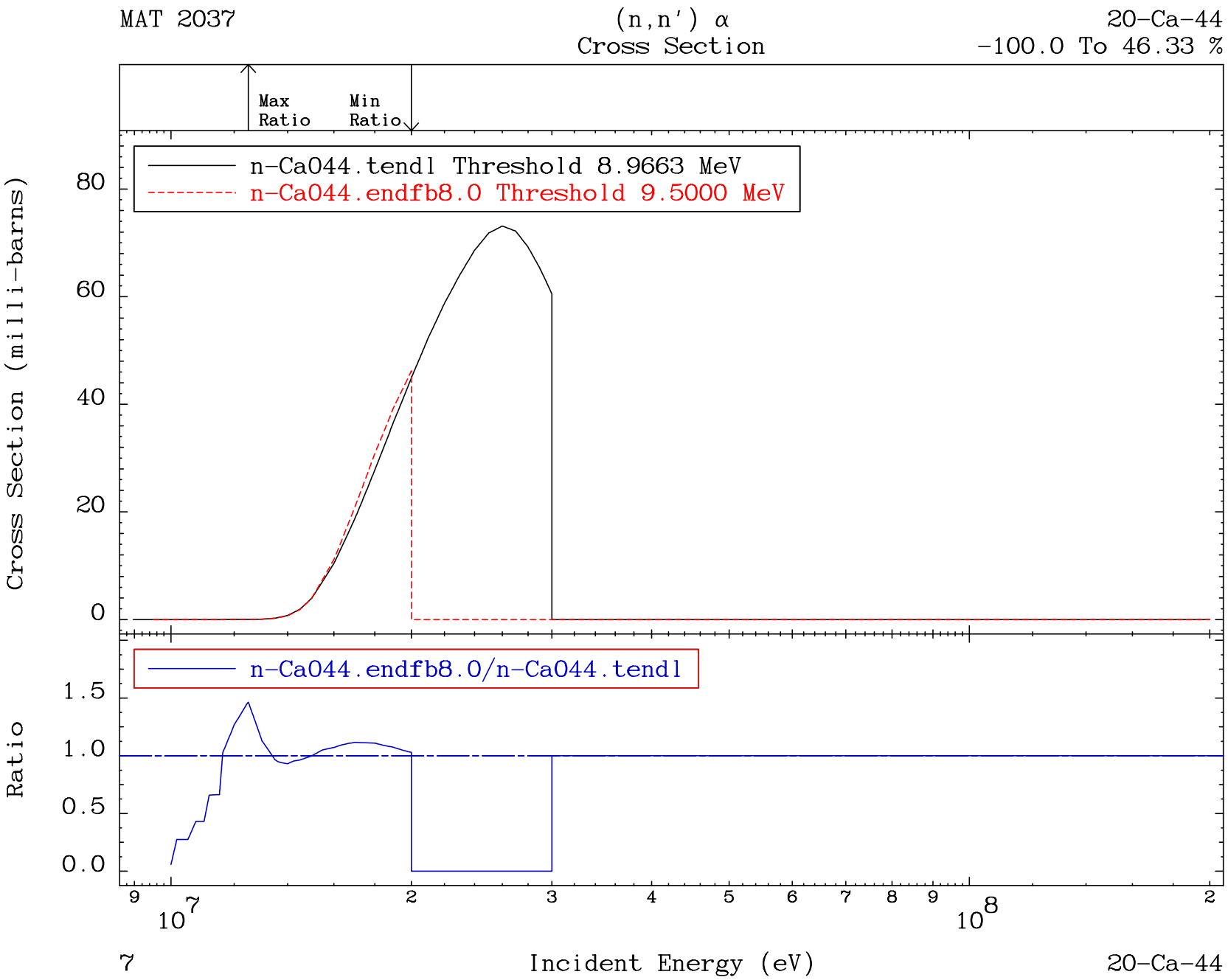

MAT 2037
Elastic
Cross Section
20-Ca-44
-99.83 To 5347. %
Min
Ratio
Max
Ratio
n-Ca044.tendl
n-Ca044.endfb8.0
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
2
20-Ca-44

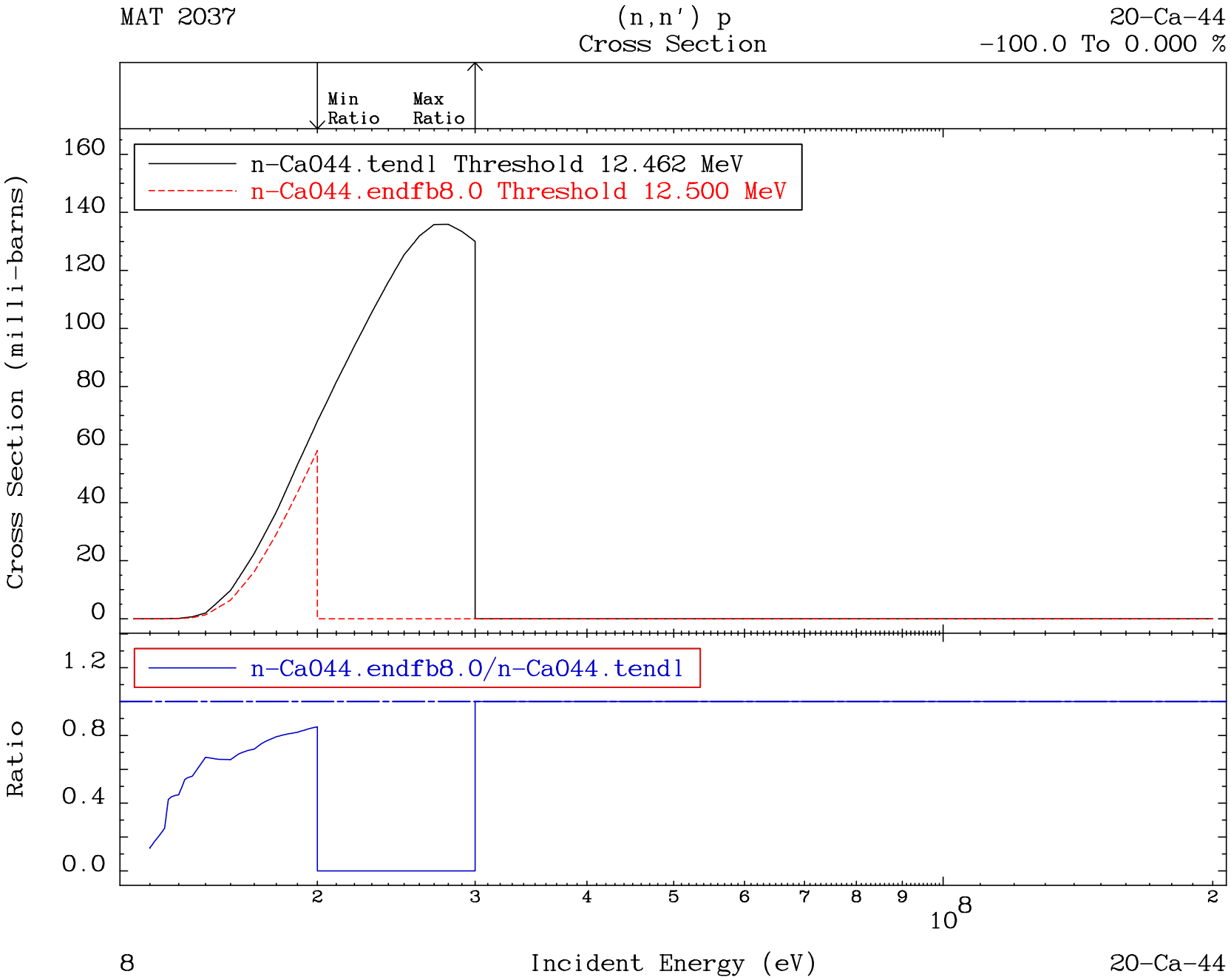

MAT 2037
Inelastic
Cross Section
20-Ca-44
-100.0 To 6.360 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 1.1836 MeV
n-Ca044.endfb8.0 Threshold 1.1836 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.2
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
20-Ca-44

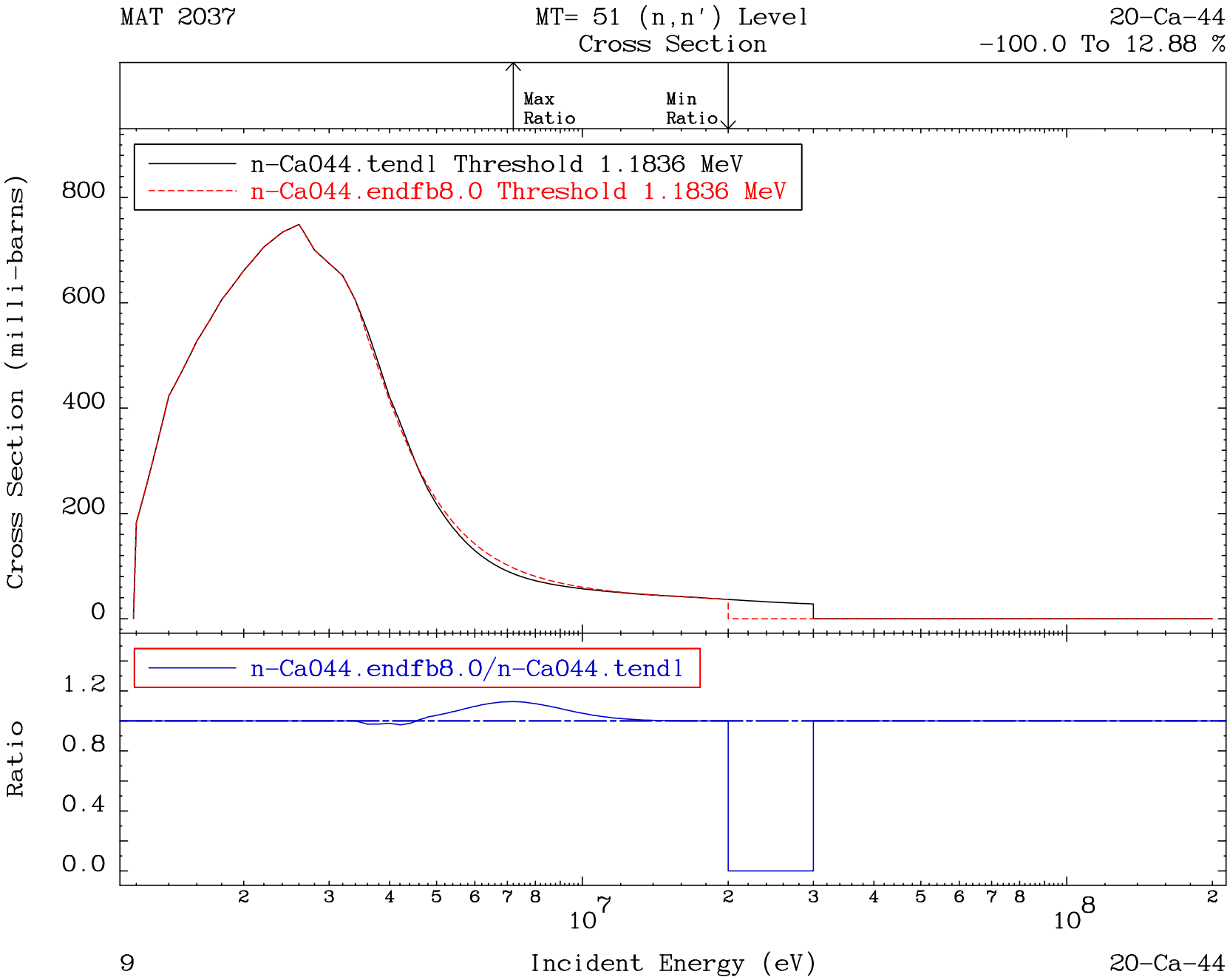

MAT 2037
(n,remainder)
Cross Section
20-Ca-44
-0.125 To 0.000 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 30.000 MeV
n-Ca044.endfb8.0 Threshold 499.74 keV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
4
Incident Energy (eV)
20-Ca-44

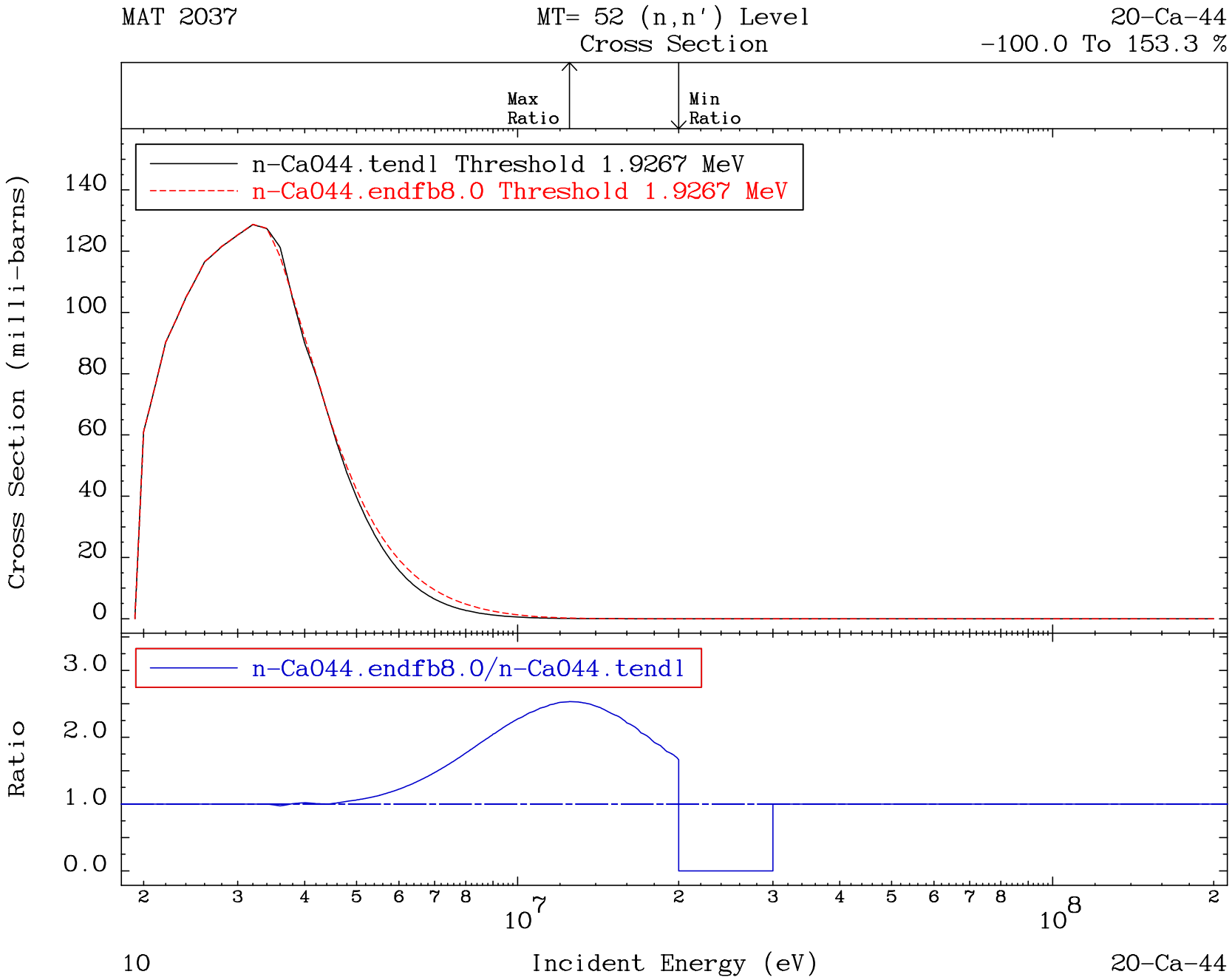

MAT 2037
(n,2n)
Cross Section
20-Ca-44
-100.0 To 1.959 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 11.387 MeV
n-Ca044.endfb8.0 Threshold 11.387 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
20-Ca-44

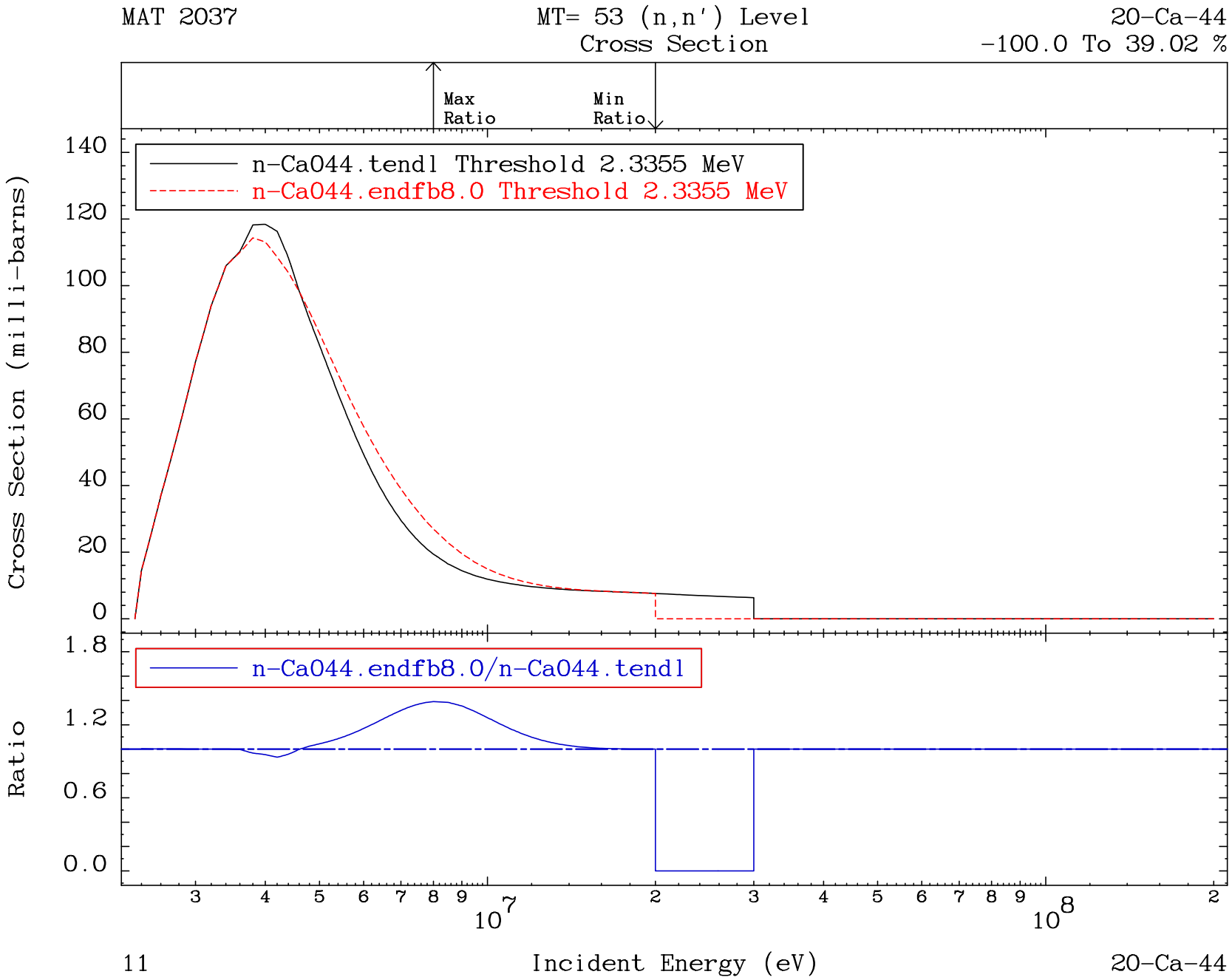

MAT 2037
(n,3n)
Cross Section
20-Ca-44
-100.0 To 0.000 %
Min Ratio
Max Ratio
n-Ca044.tendl Threshold 19.502 MeV
n-Ca044.endfb8.0 Threshold 19.502 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
20-Ca-44

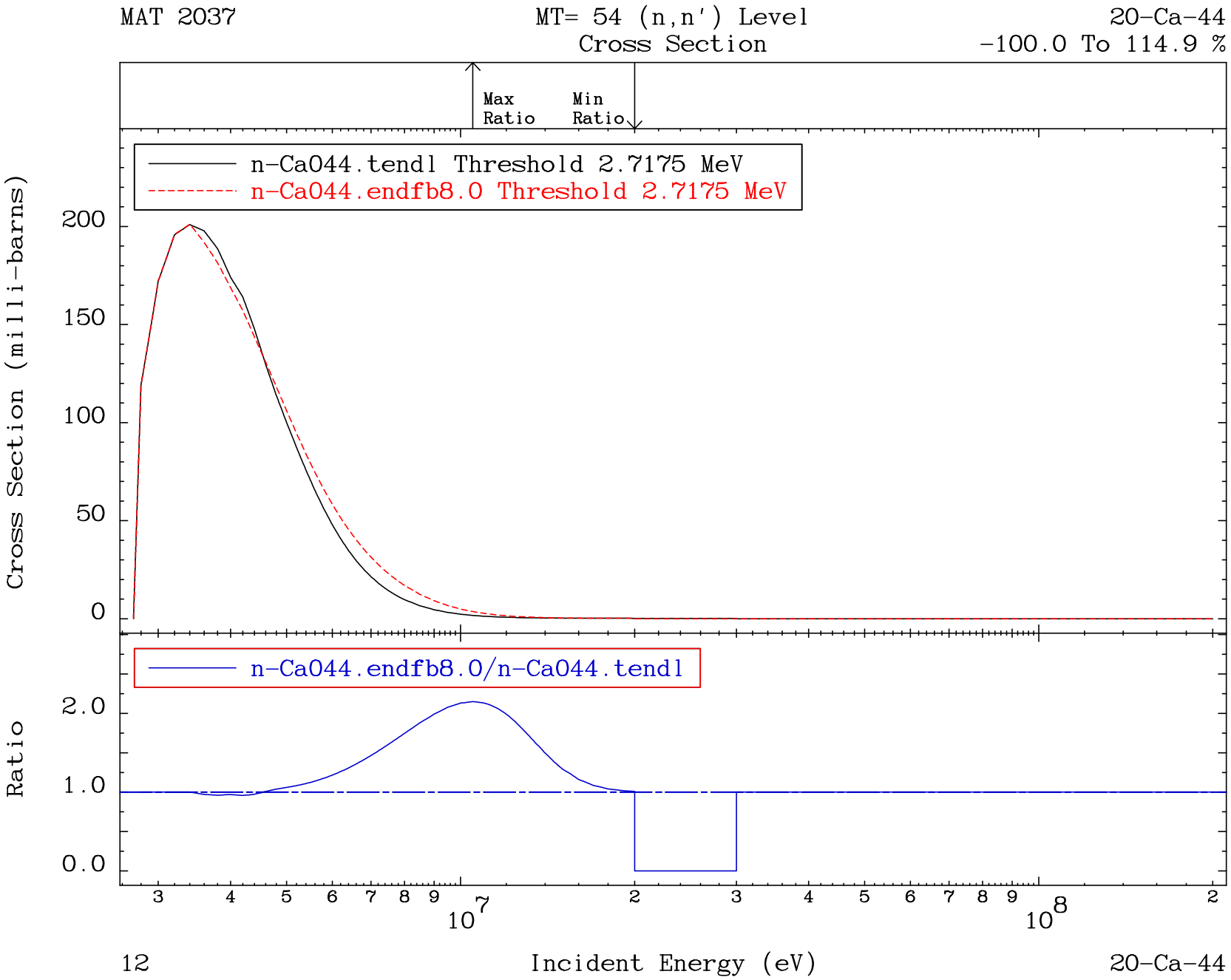

MAT 2037
(n,n') α
Cross Section
20-Ca-44
-100.0 To 46.33 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 8.9663 MeV
n-Ca044.endfb8.0 Threshold 9.5000 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.5
1.0
0.5
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
20-Ca-44

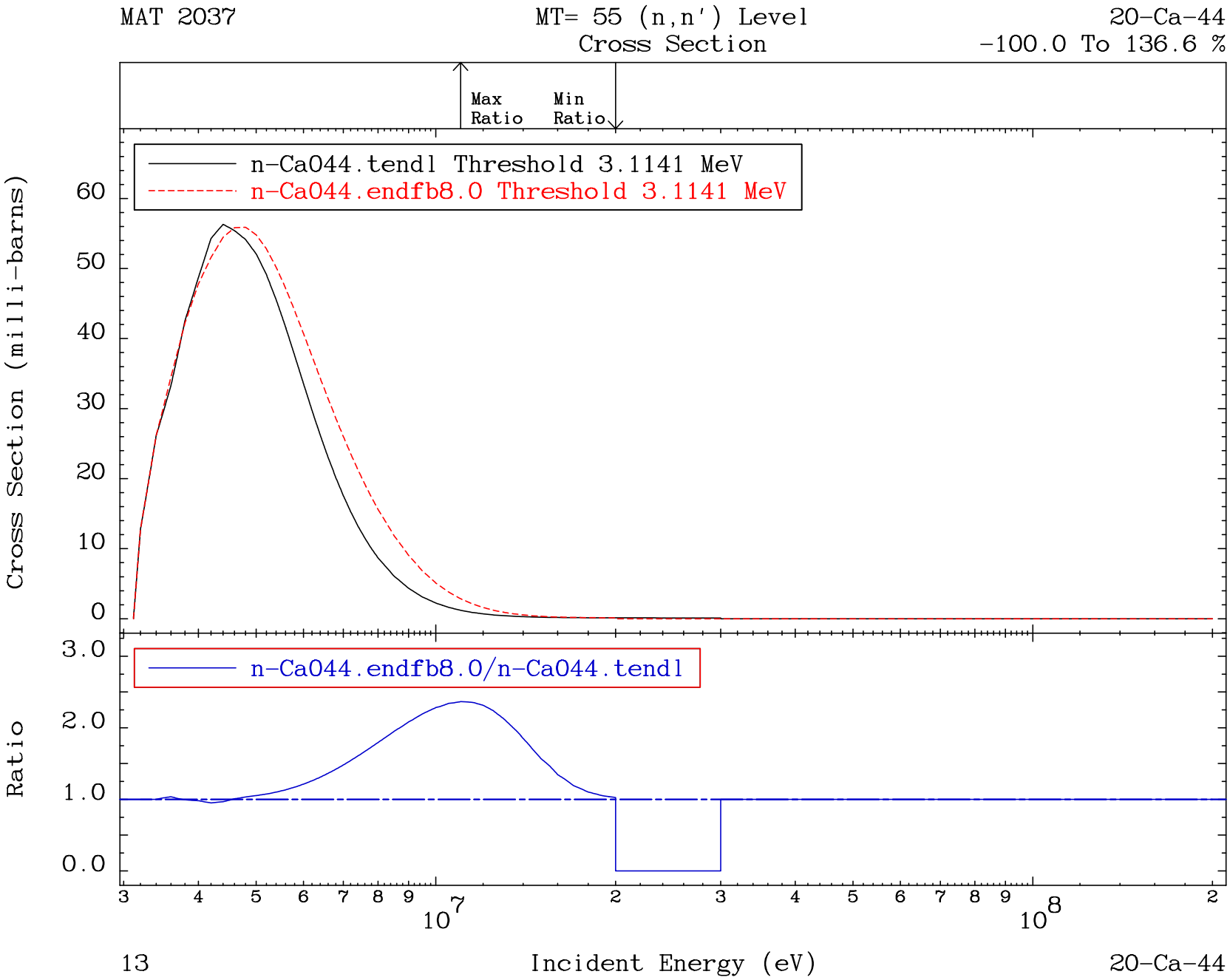

MAT 2037
(n,n') p
Cross Section
20-Ca-44
-100.0 To 0.000 %
Min Ratio
Max Ratio
n-Ca044.tendl Threshold 12.462 MeV
n-Ca044.endfb8.0 Threshold 12.500 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
20-Ca-44

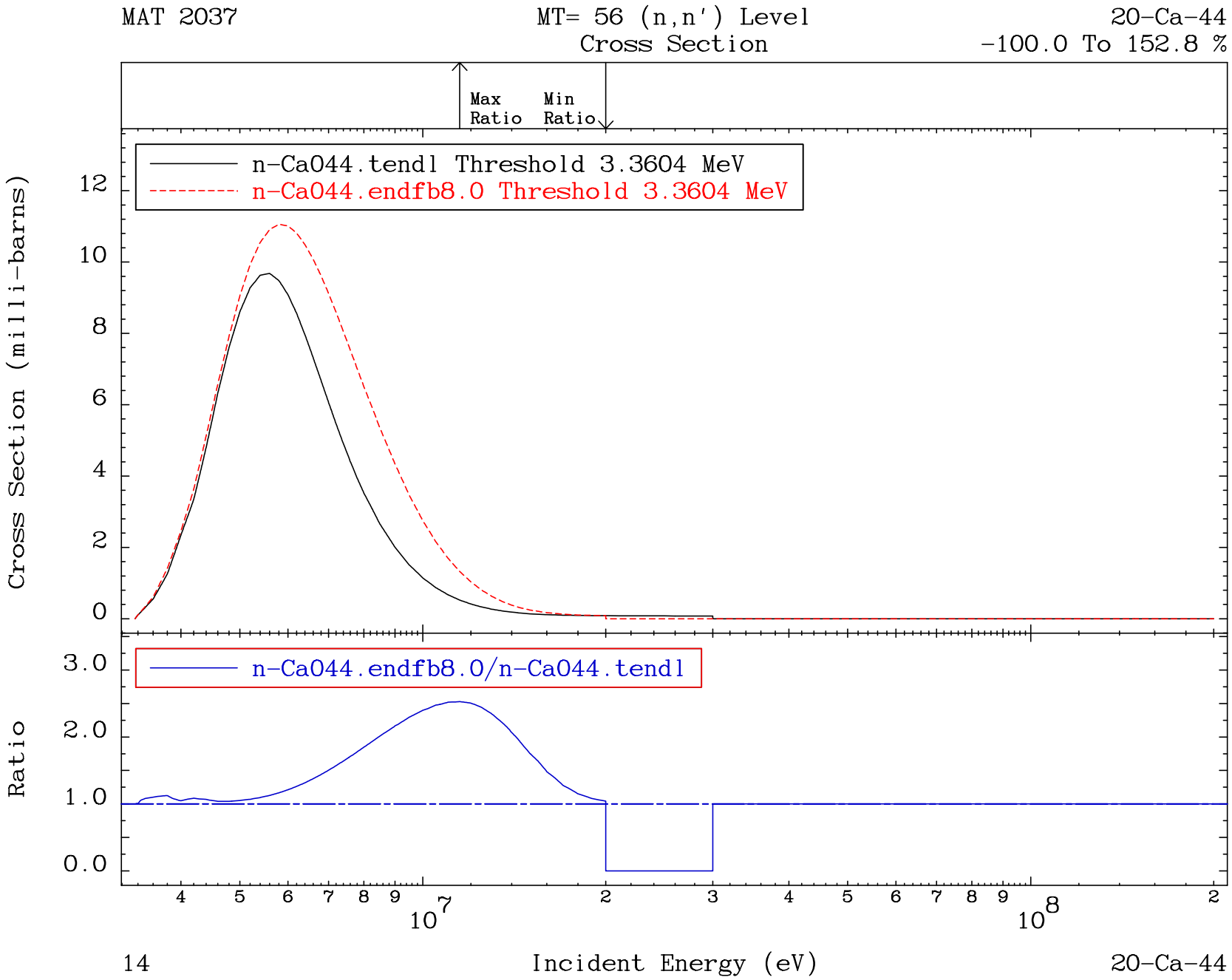

MAT 2037
MT= 51 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 12.88 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 1.1836 MeV
n-Ca044.endfb8.0 Threshold 1.1836 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.2
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
20-Ca-44

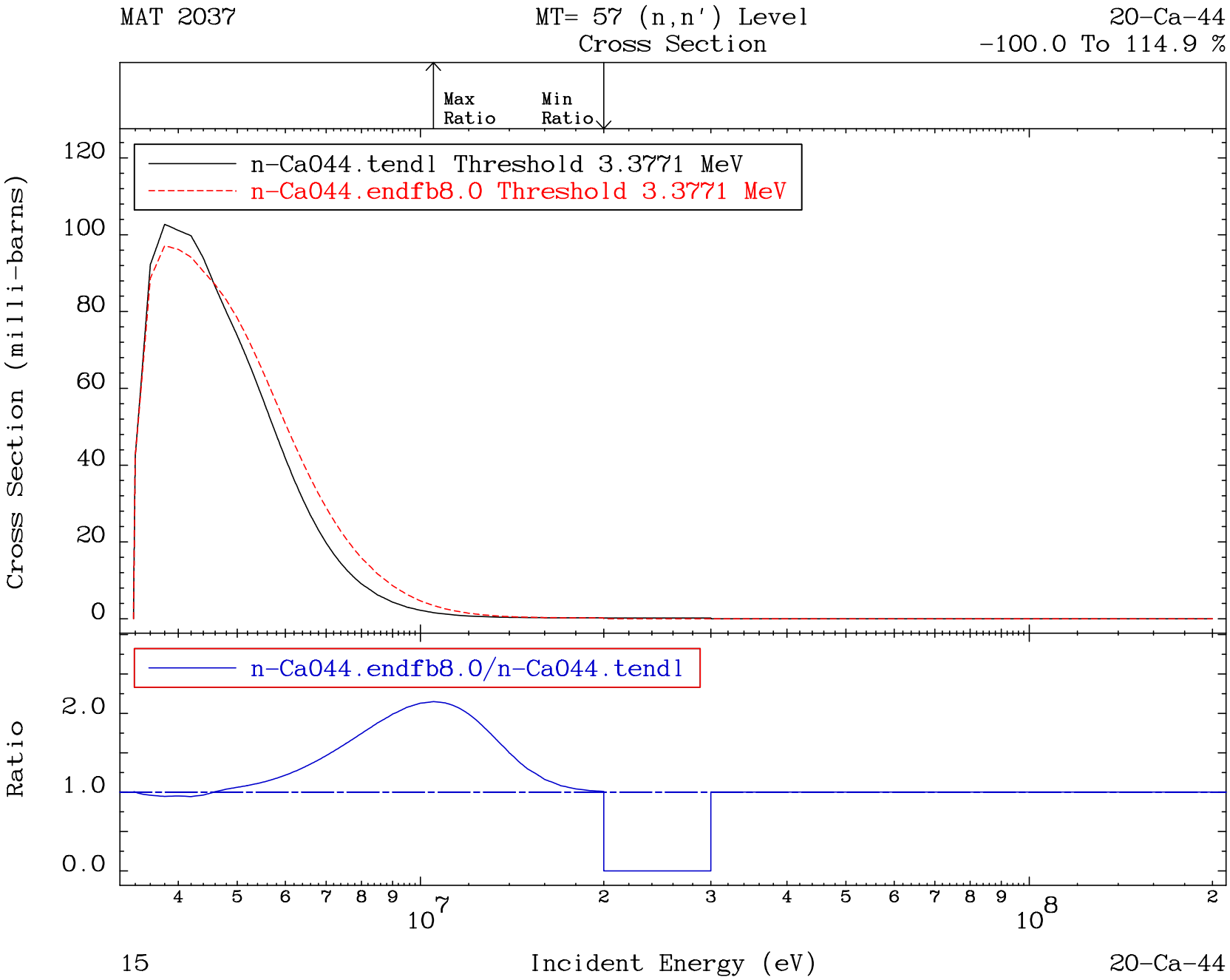

MAT 2037
MT= 52 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 153.3 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 1.9267 MeV
n-Ca044.endfb8.0 Threshold 1.9267 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
20-Ca-44

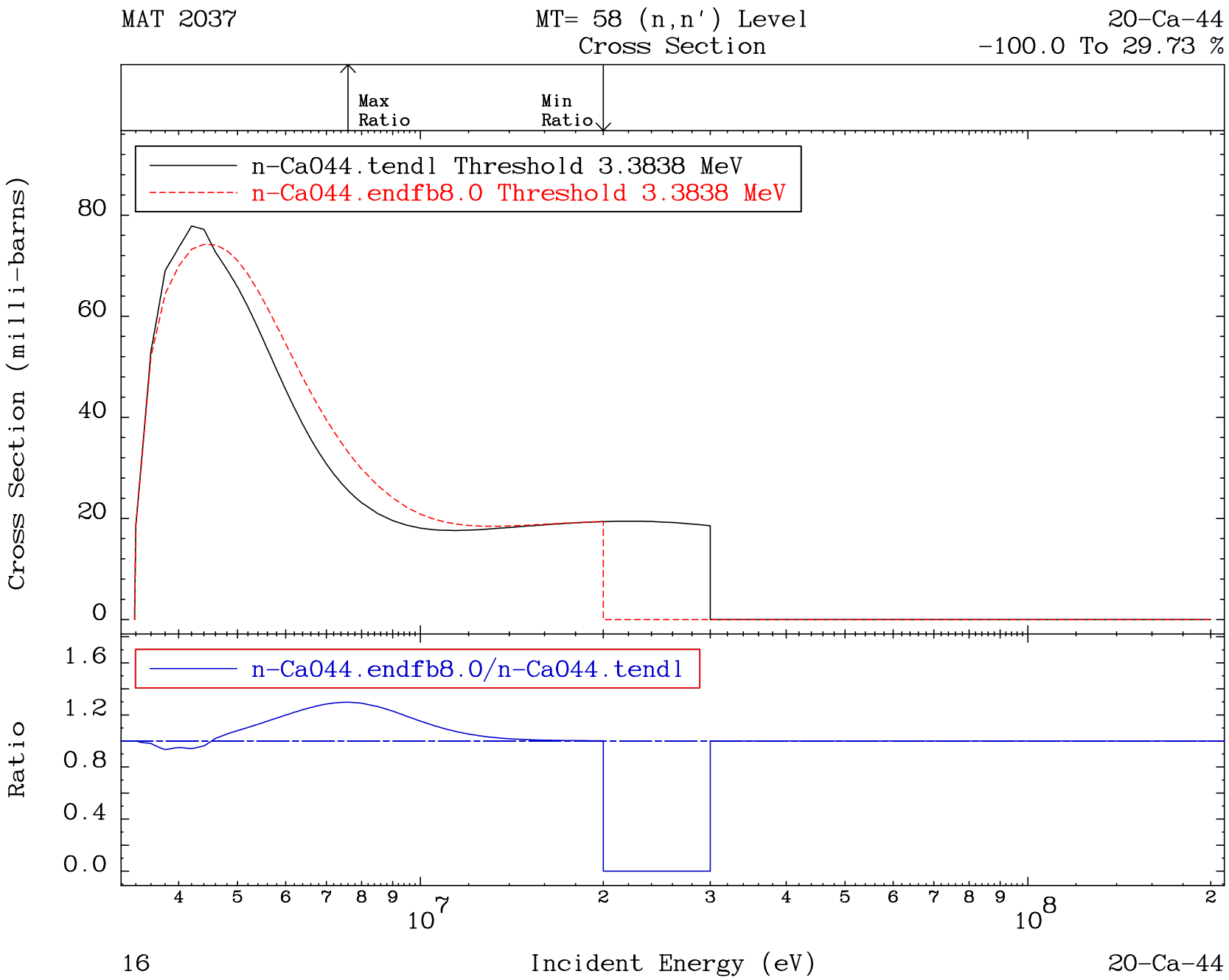

MAT 2037
MT= 53 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 39.02 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 2.3355 MeV
n-Ca044.endfb8.0 Threshold 2.3355 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.8
1.2
0.6
0.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
20-Ca-44

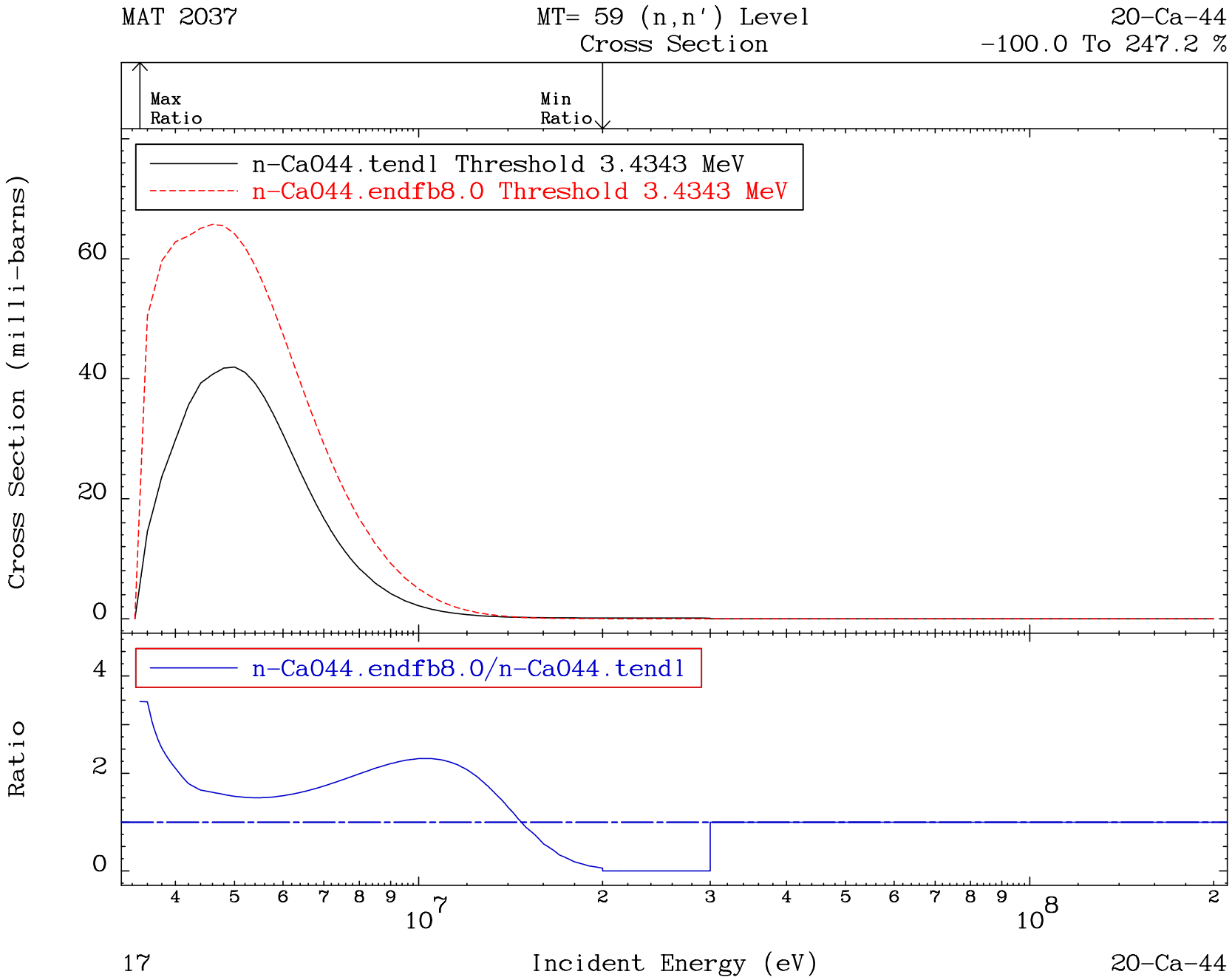

MAT 2037
MT= 54 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 114.9 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 2.7175 MeV
n-Ca044.endfb8.0 Threshold 2.7175 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
2.0
1.0
0.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
20-Ca-44

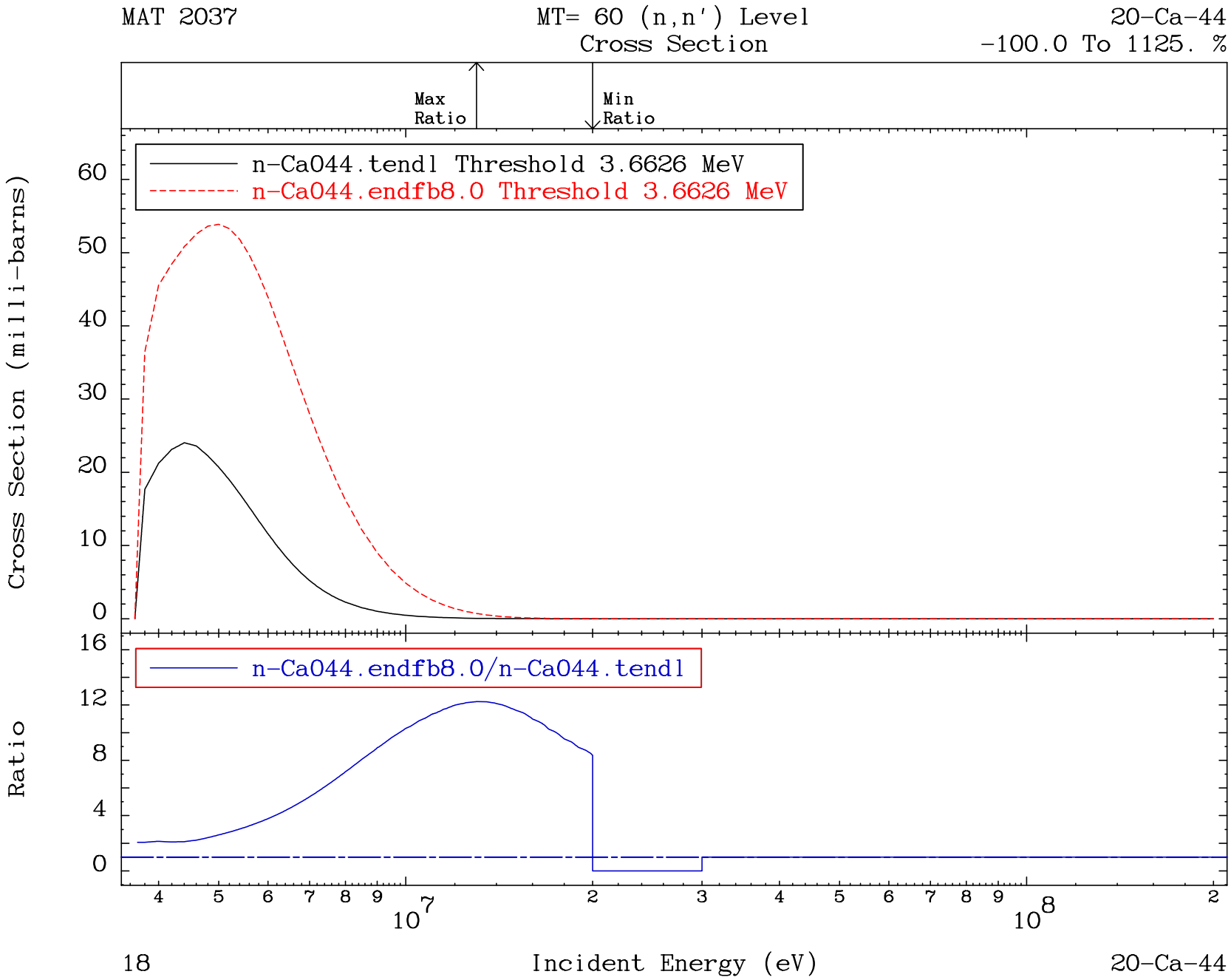

MAT 2037
MT= 55 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 136.6 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 3.1141 MeV
n-Ca044.endfb8.0 Threshold 3.1141 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
3.0
2.0
1.0
0.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
20-Ca-44

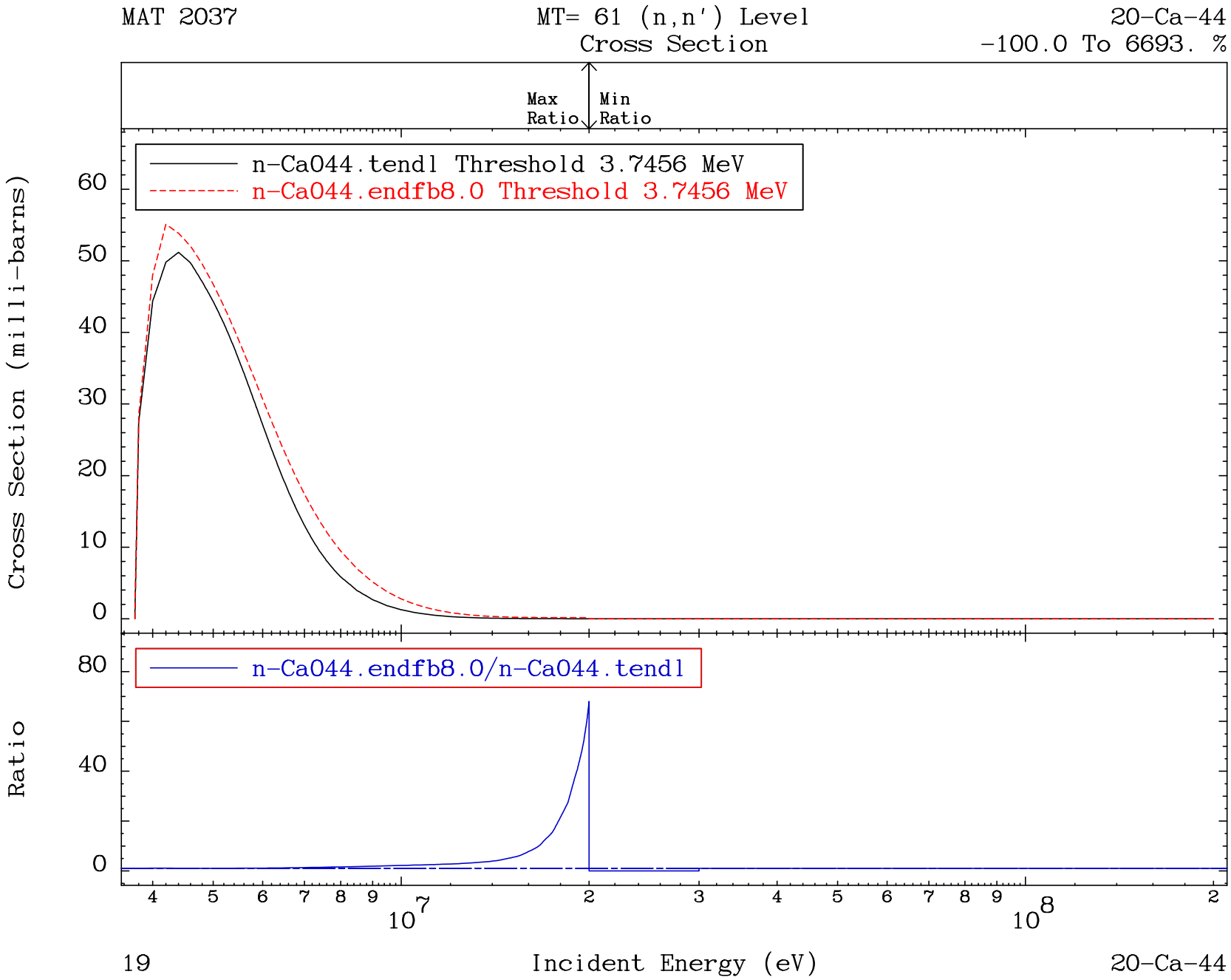

MAT 2037
MT= 56 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 152.8 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 3.3604 MeV
n-Ca044.endfb8.0 Threshold 3.3604 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
0.0
1.0
2.0
3.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
20-Ca-44

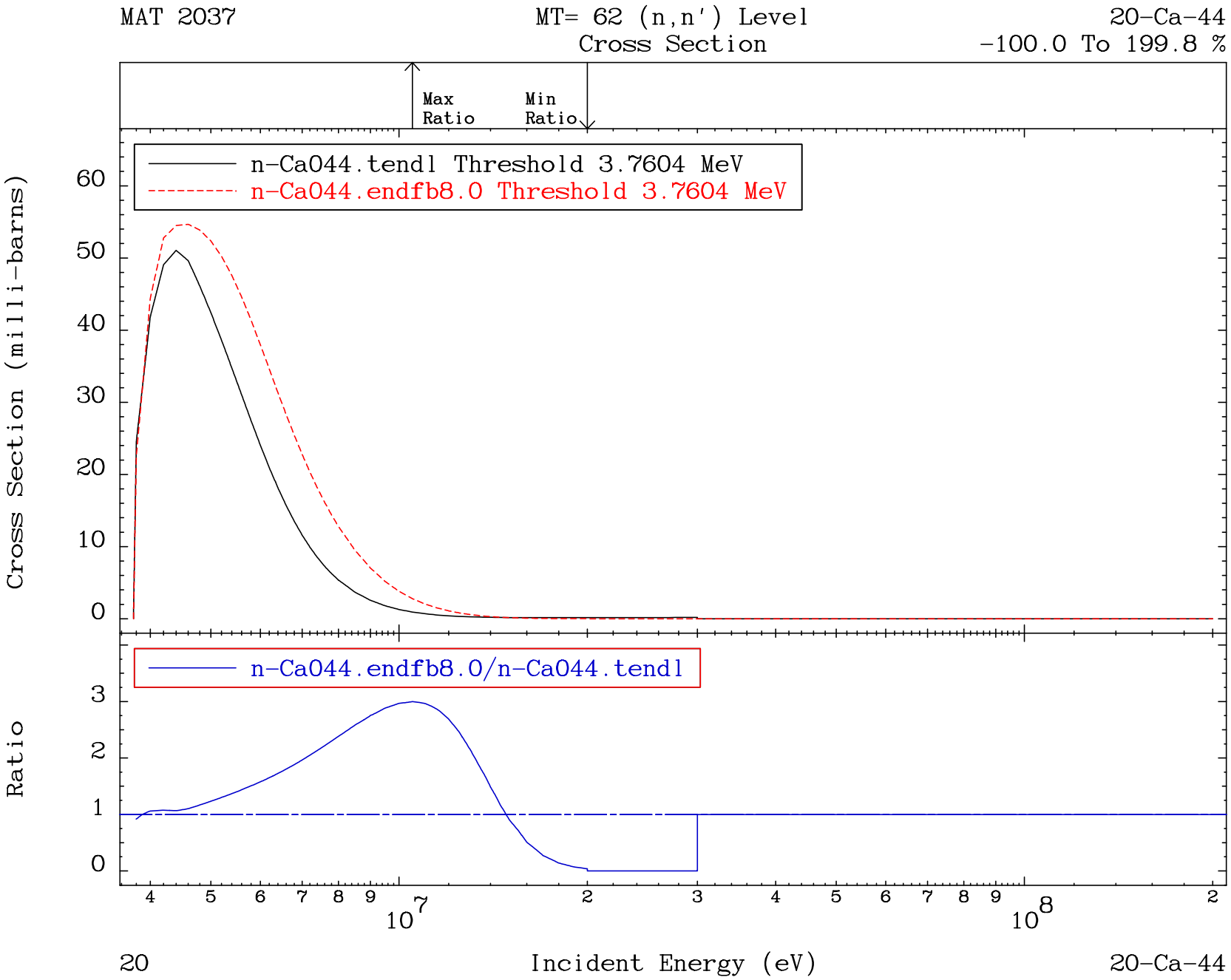

MAT 2037
MT= 57 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 114.9 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 3.3771 MeV
n-Ca044.endfb8.0 Threshold 3.3771 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
2.0
1.0
0.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
20-Ca-44

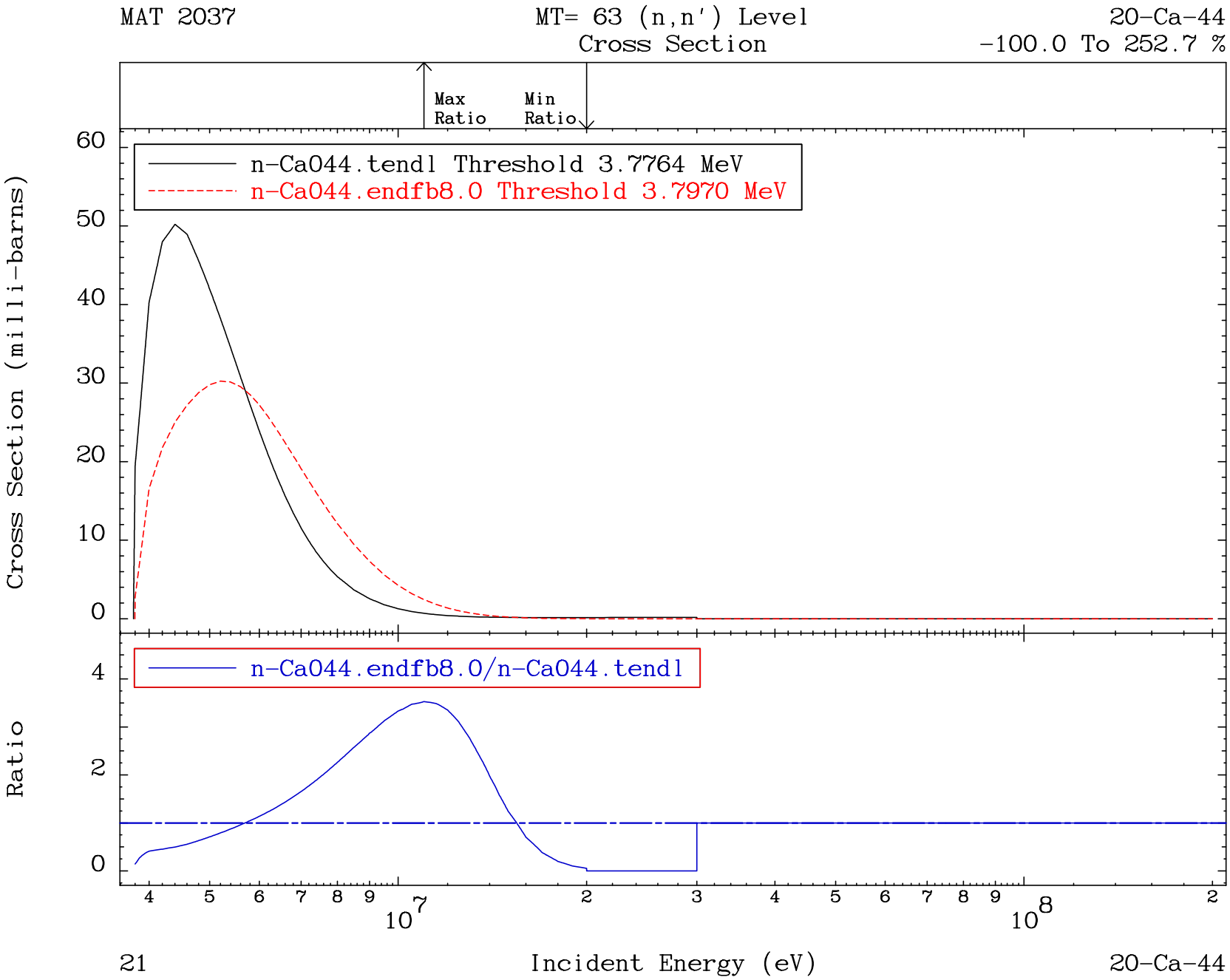

MAT 2037
MT= 58 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 29.73 %
Max
Ratio
Min
Ratio
n-Ca044.tendl Threshold 3.3838 MeV
n-Ca044.endfb8.0 Threshold 3.3838 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.6
1.2
0.8
0.4
0.0
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
16
Incident Energy (eV)
20-Ca-44

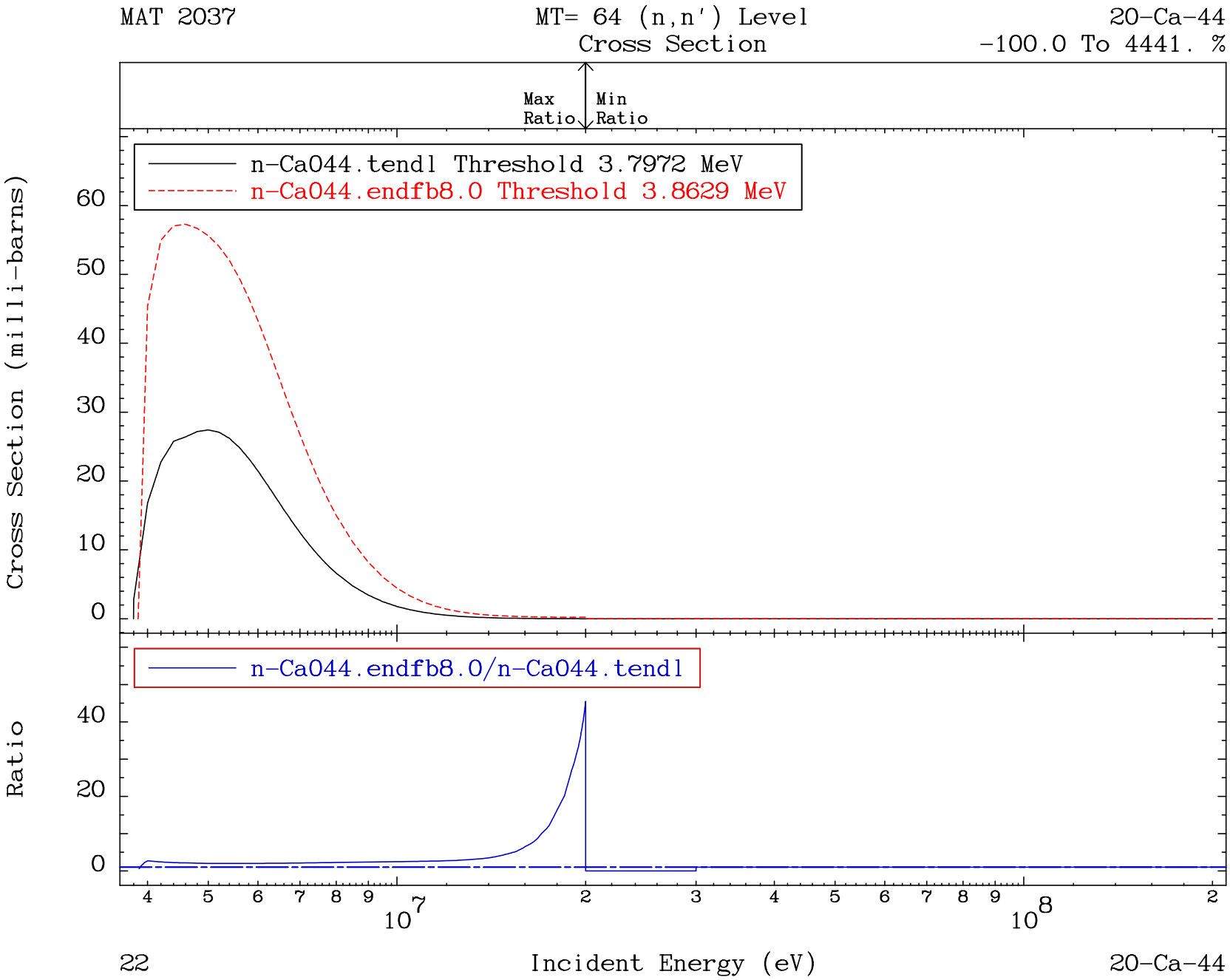

MAT 2037
MT= 59 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 247.2 %
Max
Ratio
Min
Ratio
n-Ca044.tendl Threshold 3.4343 MeV
n-Ca044.endfb8.0 Threshold 3.4343 MeV
Cross Section (milli-barns)
60
40
20
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
4
2
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
20-Ca-44

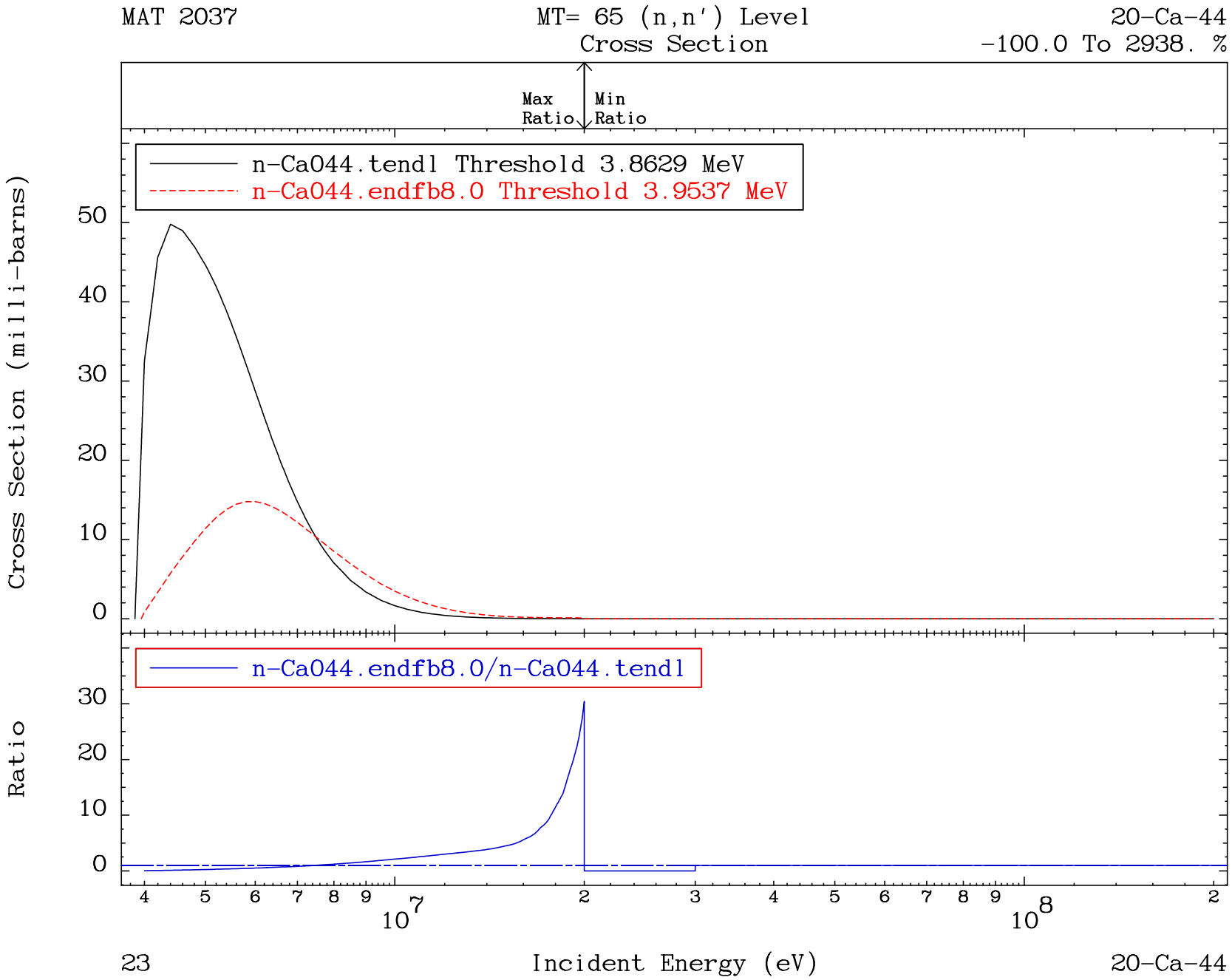

MAT 2037
MT= 60 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 1125. %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 3.6626 MeV
n-Ca044.endfb8.0 Threshold 3.6626 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
16
12
8
4
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
20-Ca-44

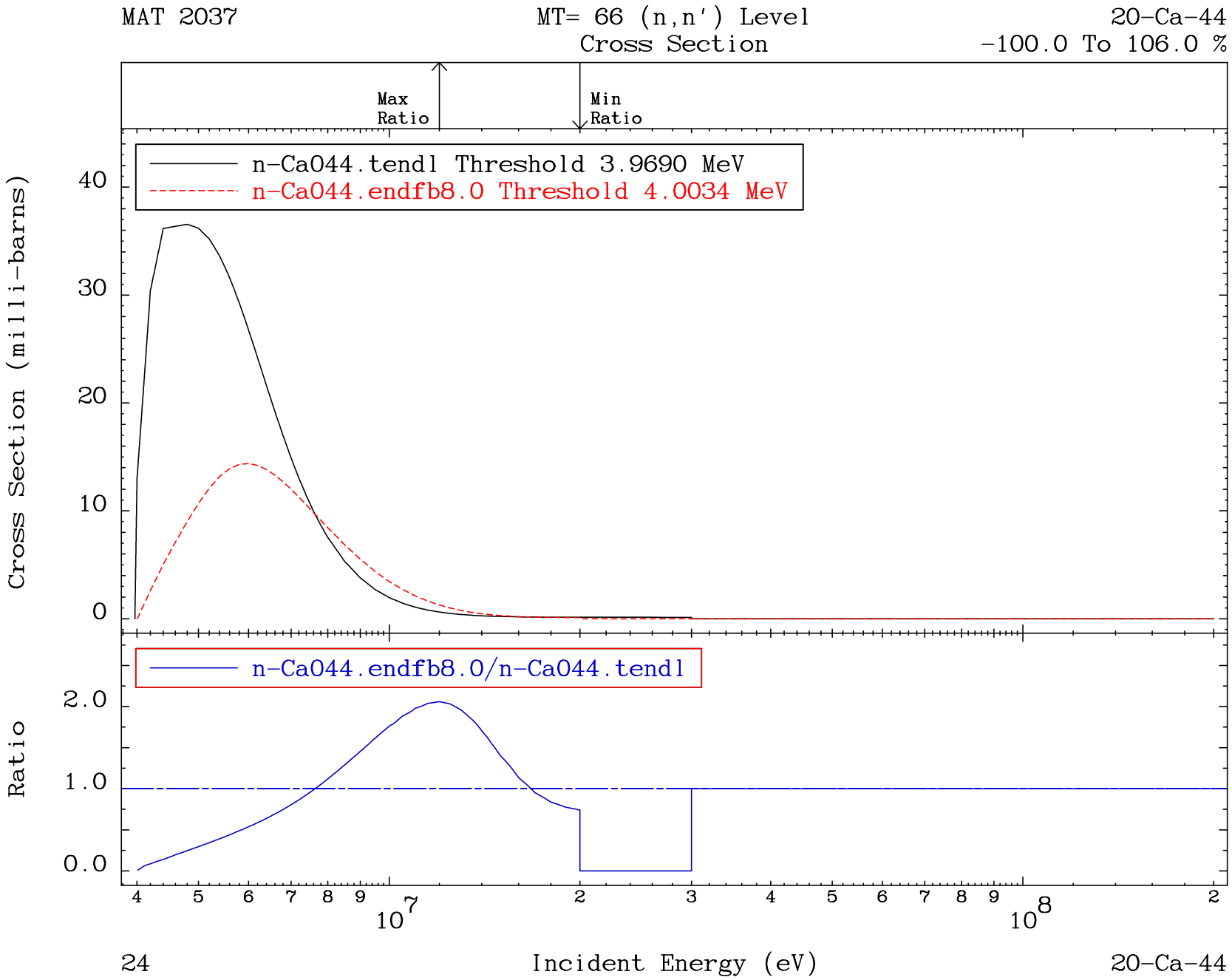

MAT 2037
MT= 61 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 6693. %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 3.7456 MeV
n-Ca044.endfb8.0 Threshold 3.7456 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
80
40
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
20-Ca-44

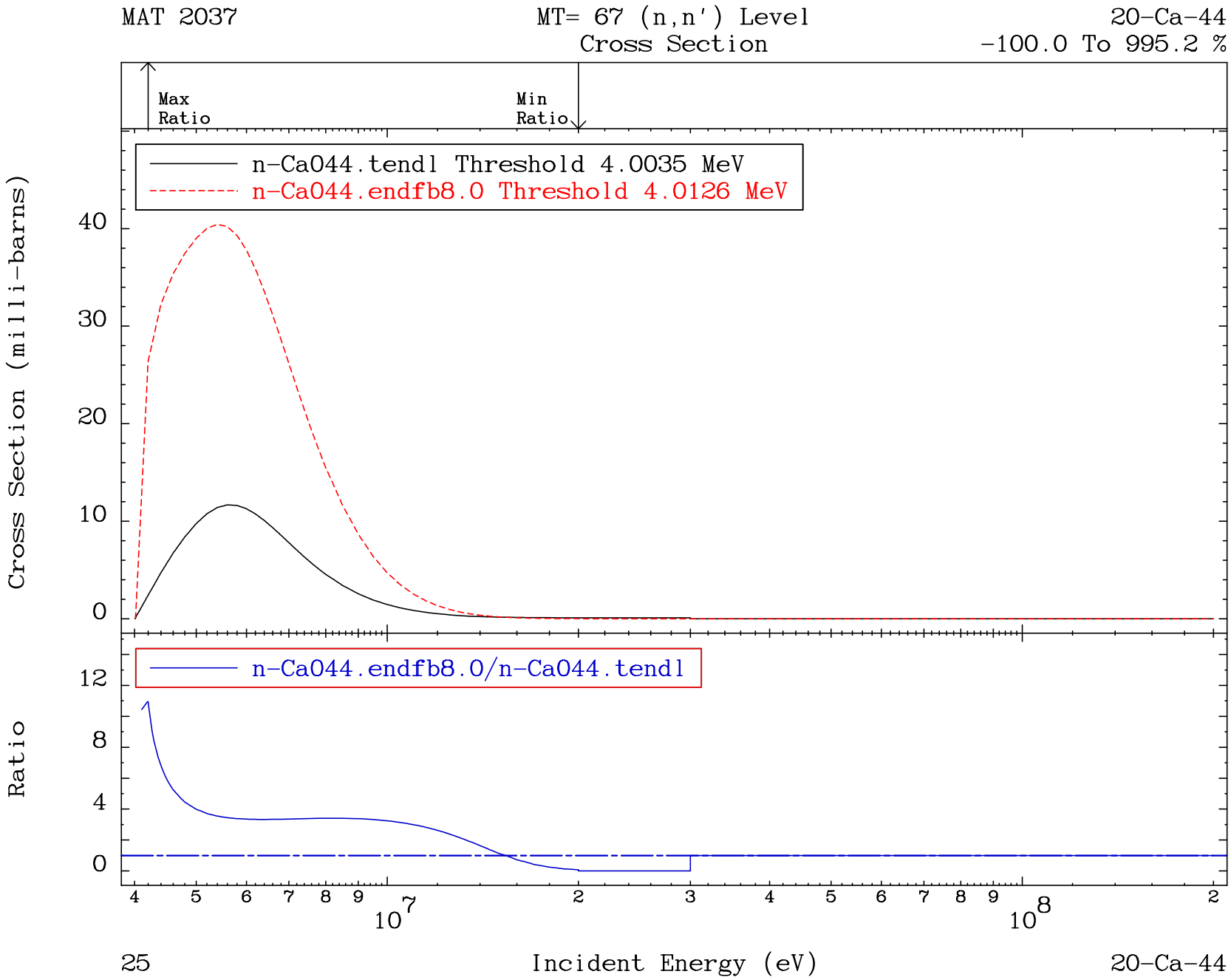

MAT 2037
MT= 62 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 199.8 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 3.7604 MeV
n-Ca044.endfb8.0 Threshold 3.7604 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
3
2
1
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
20-Ca-44

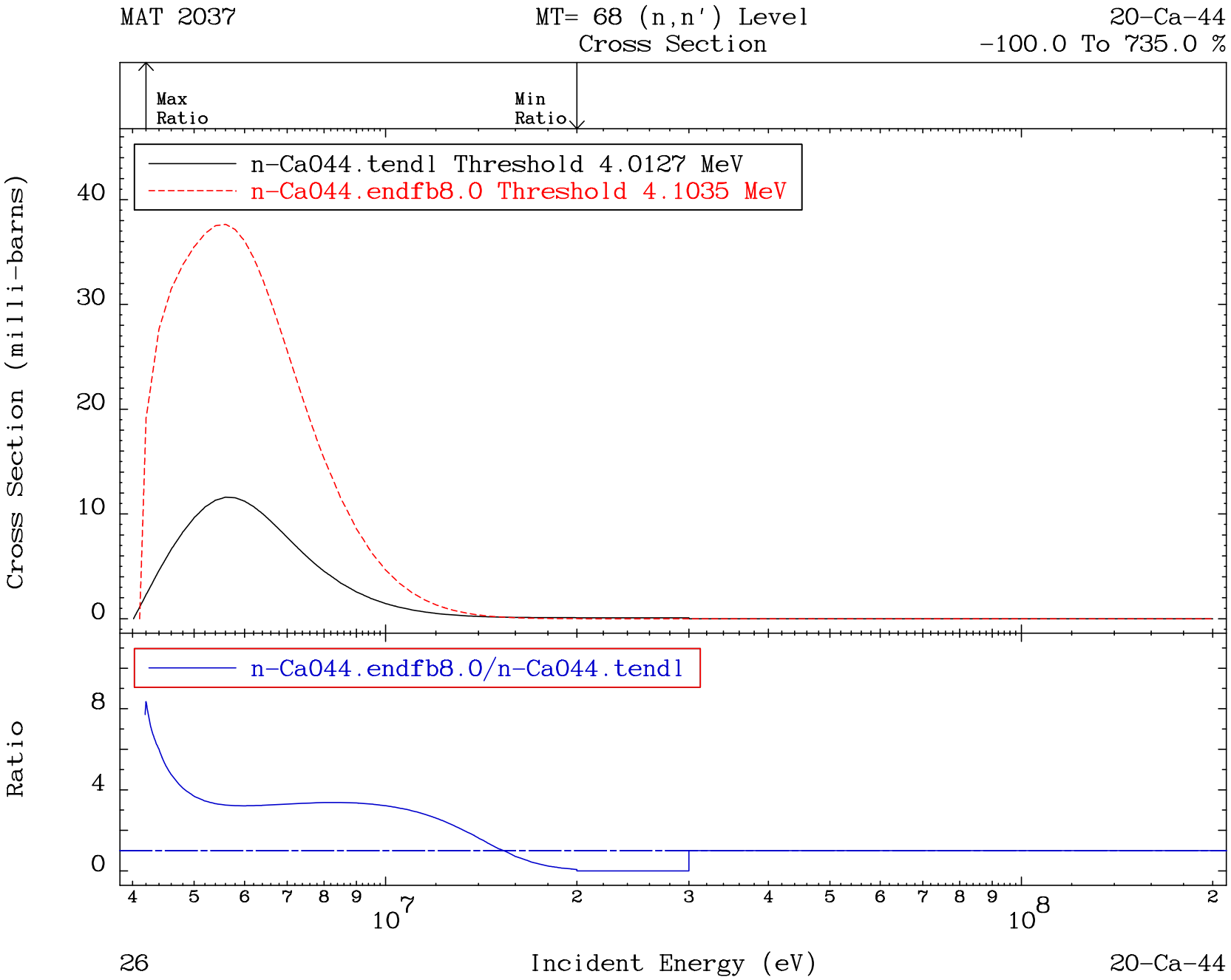

MAT 2037
MT= 63 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 252.7 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 3.7764 MeV
n-Ca044.endfb8.0 Threshold 3.7970 MeV
Cross Section (milli-barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
21
20-Ca-44

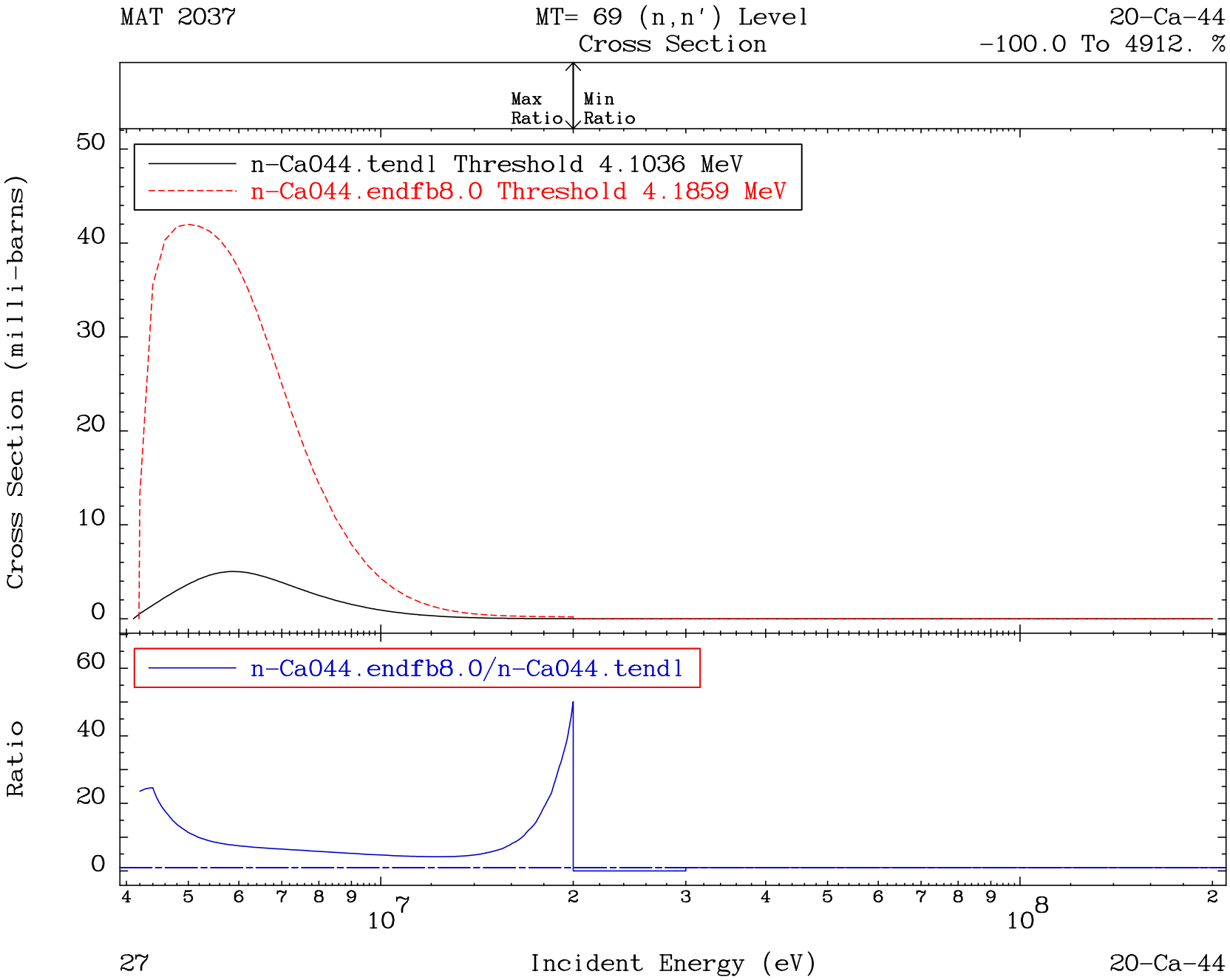

MAT 2037
MT= 64 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 4441. %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 3.7972 MeV
n-Ca044.endfb8.0 Threshold 3.8629 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
40
20
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
20-Ca-44

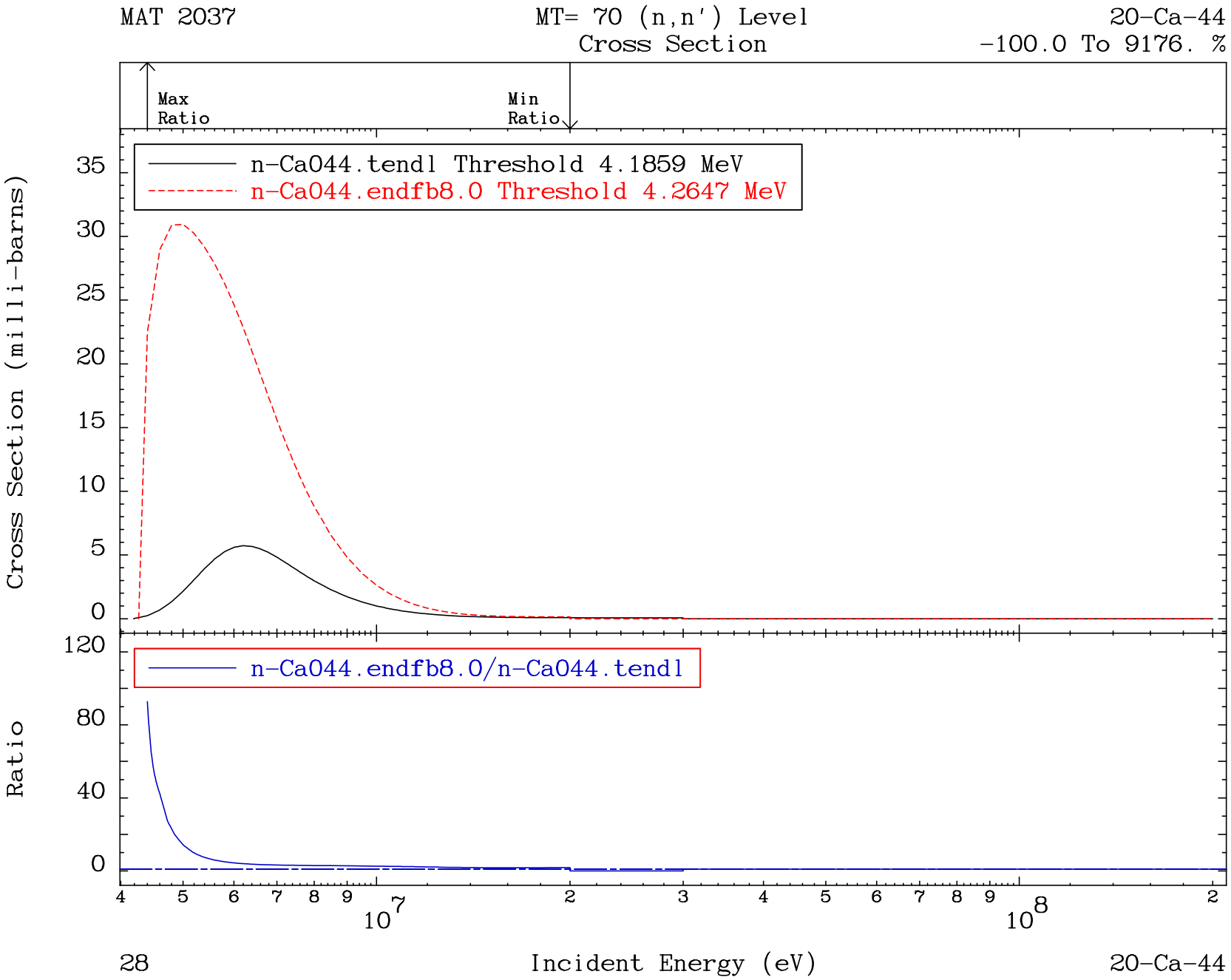

MAT 2037
MT= 65 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 2938. %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 3.8629 MeV
n-Ca044.endfb8.0 Threshold 3.9537 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
30
20
10
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
20-Ca-44

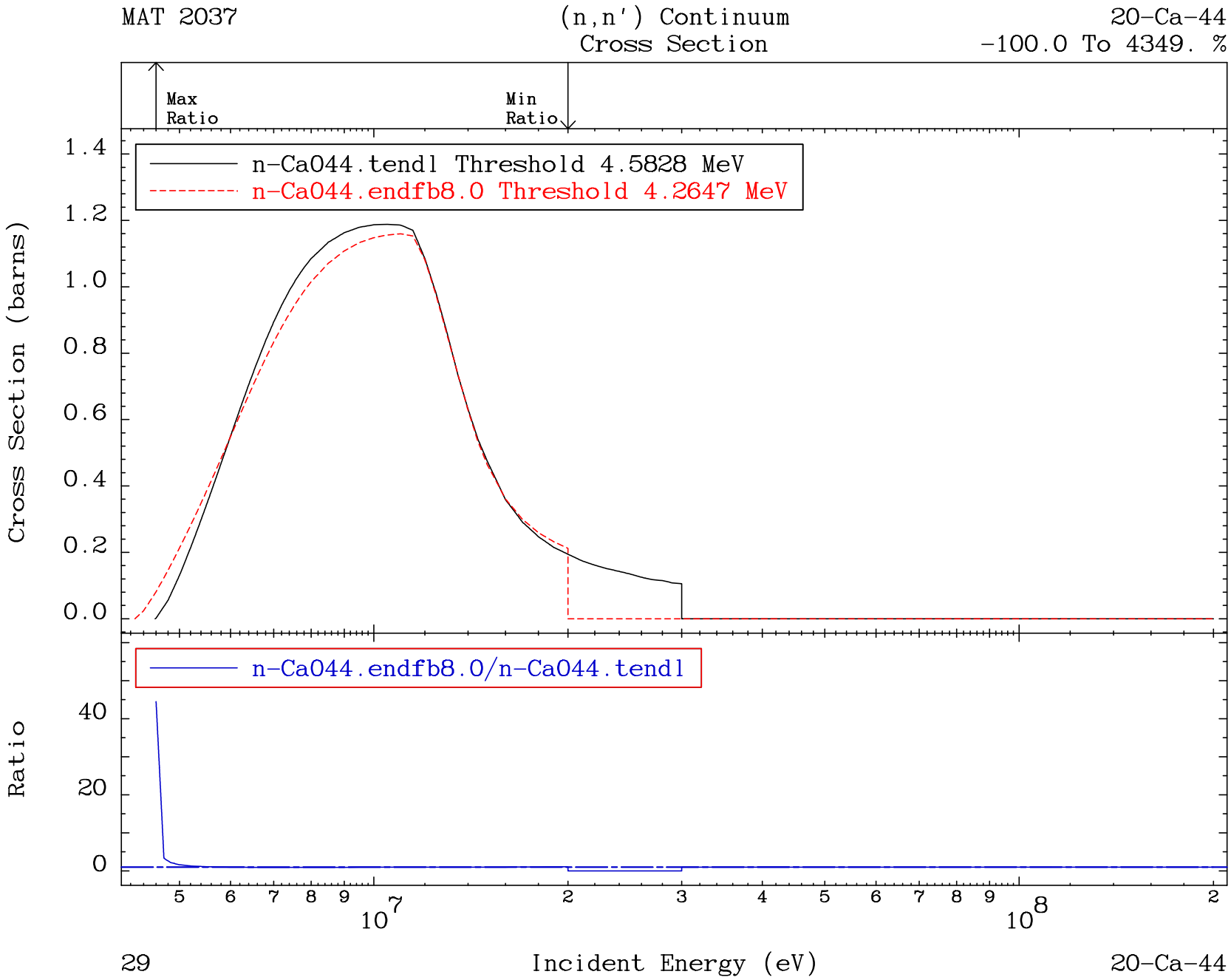

MAT 2037
MT= 66 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 106.0 %
Max
Ratio
Min
Ratio
n-Ca044.tendl Threshold 3.9690 MeV
n-Ca044.endfb8.0 Threshold 4.0034 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
2.0
1.0
0.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
20-Ca-44

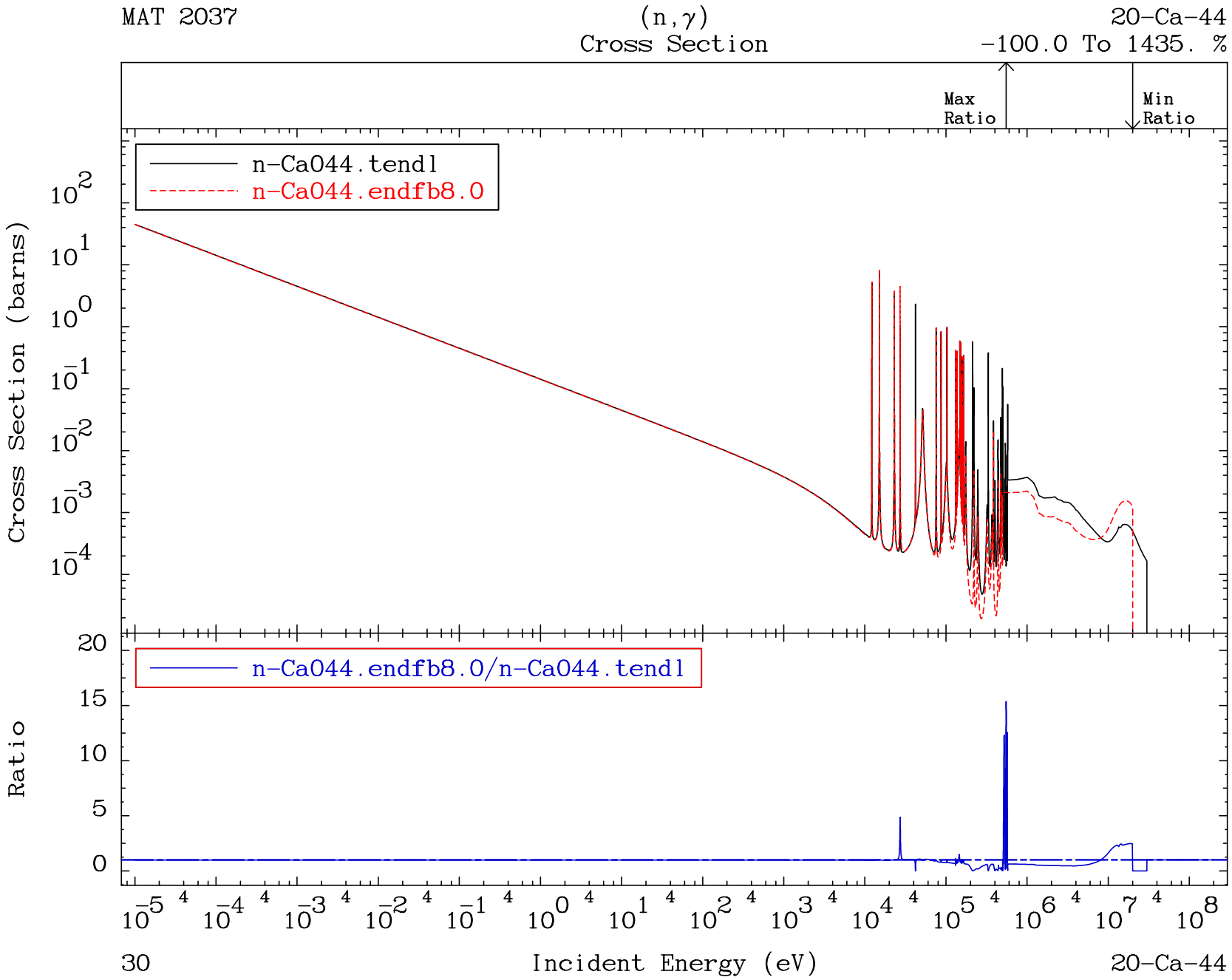

MAT 2037
MT= 67 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 995.2 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 4.0035 MeV
n-Ca044.endfb8.0 Threshold 4.0126 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
12
8
4
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
25
20-Ca-44

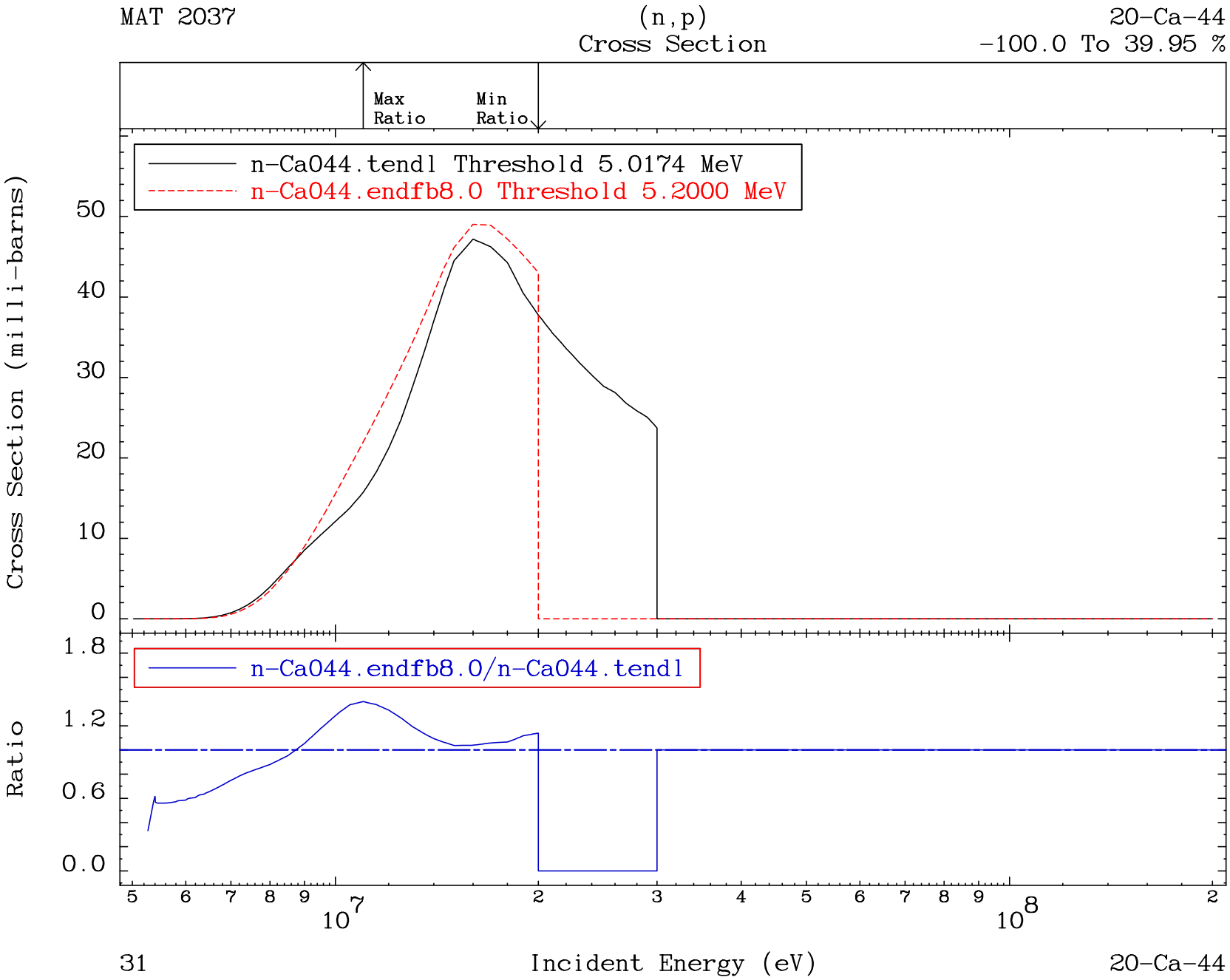

MAT 2037
MT= 68 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 735.0 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 4.0127 MeV
n-Ca044.endfb8.0 Threshold 4.1035 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
8
4
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
20-Ca-44

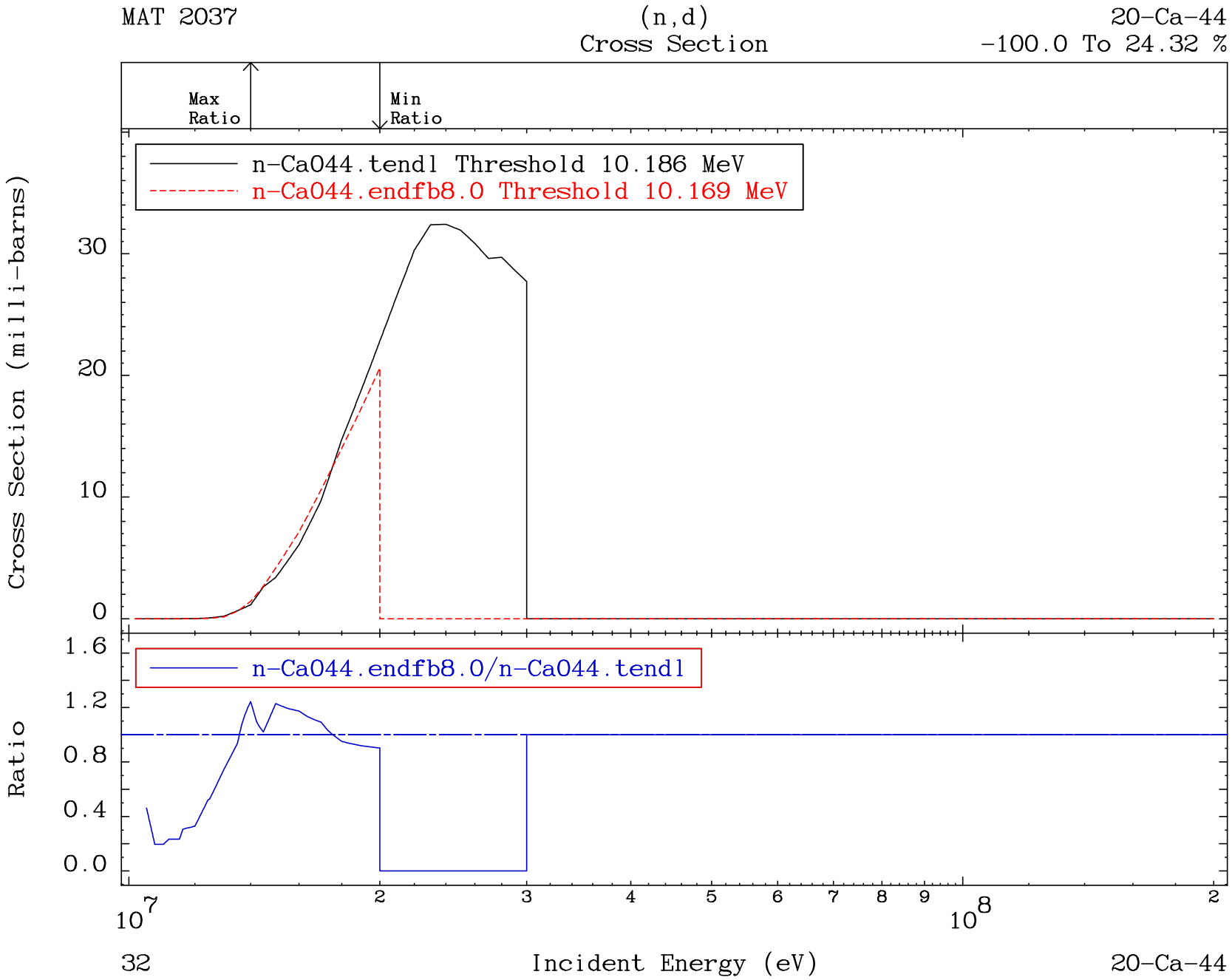

MAT 2037
MT= 69 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 4912. %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 4.1036 MeV
n-Ca044.endfb8.0 Threshold 4.1859 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
60
40
20
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
20-Ca-44

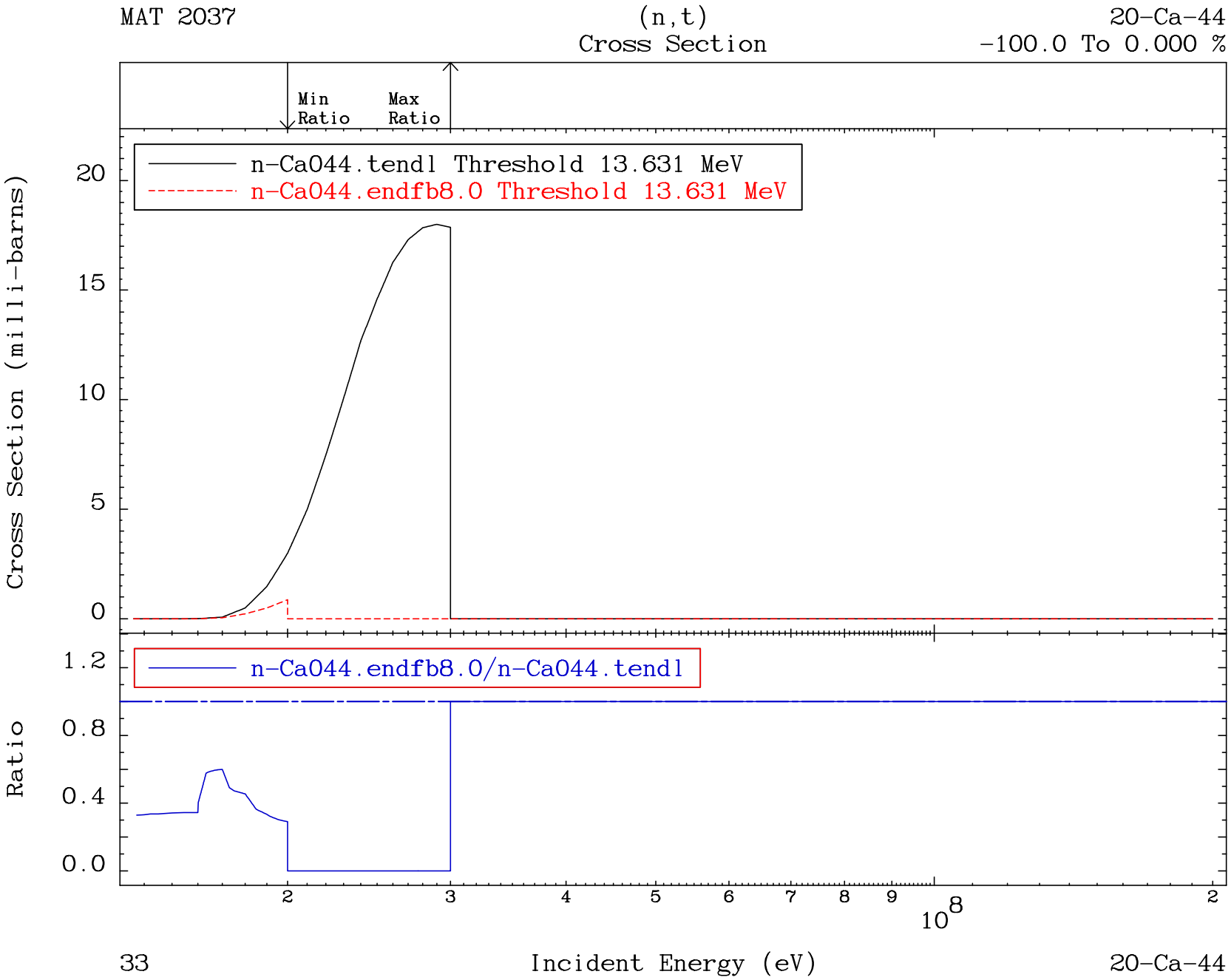

MAT 2037
MT= 70 (n,n') Level
Cross Section
20-Ca-44
-100.0 To 9176. %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 4.1859 MeV
n-Ca044.endfb8.0 Threshold 4.2647 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
120
80
40
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
20-Ca-44

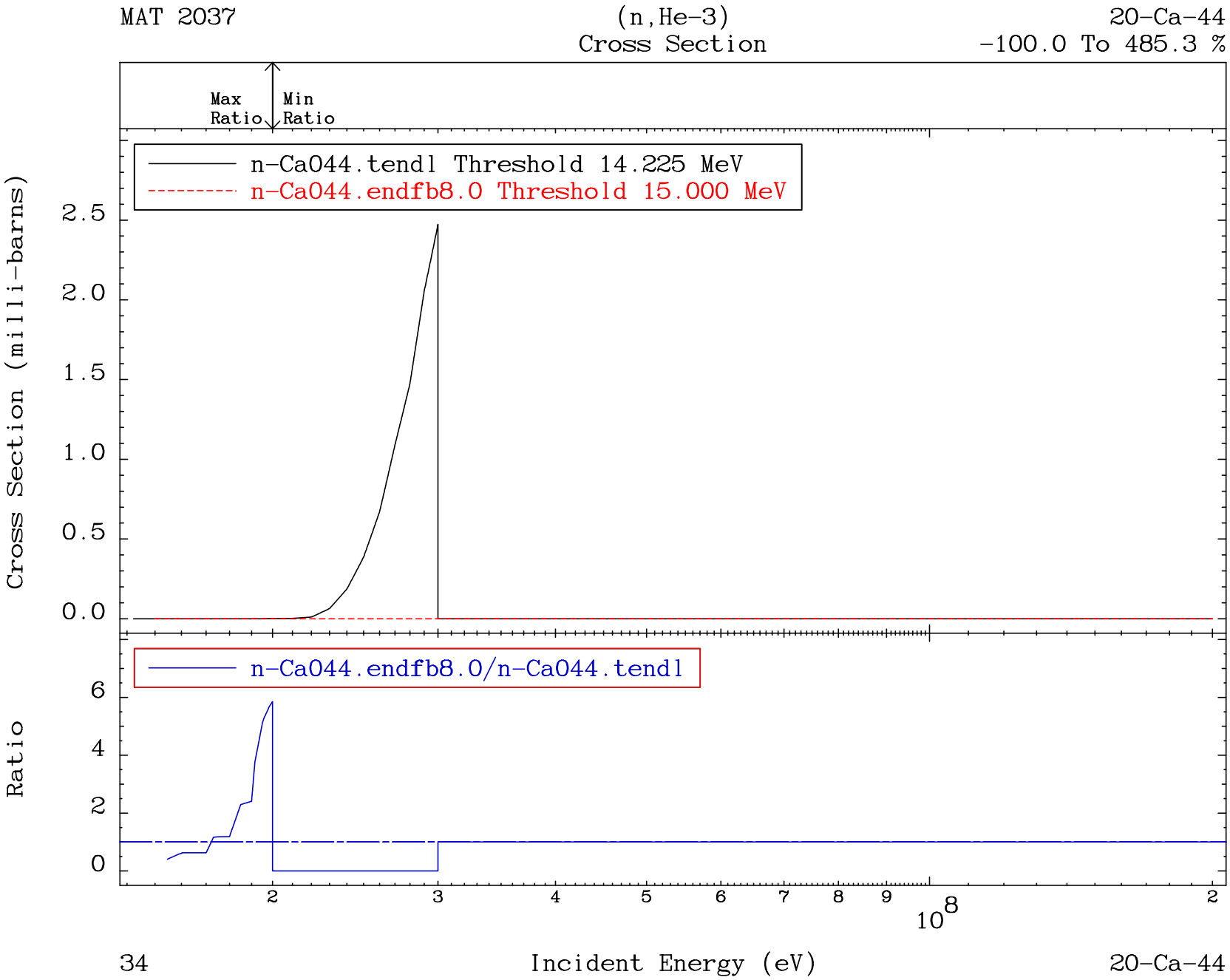

MAT 2037
(n,n') Continuum
Cross Section
20-Ca-44
-100.0 To 4349. %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 4.5828 MeV
n-Ca044.endfb8.0 Threshold 4.2647 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
40
20
0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
20-Ca-44

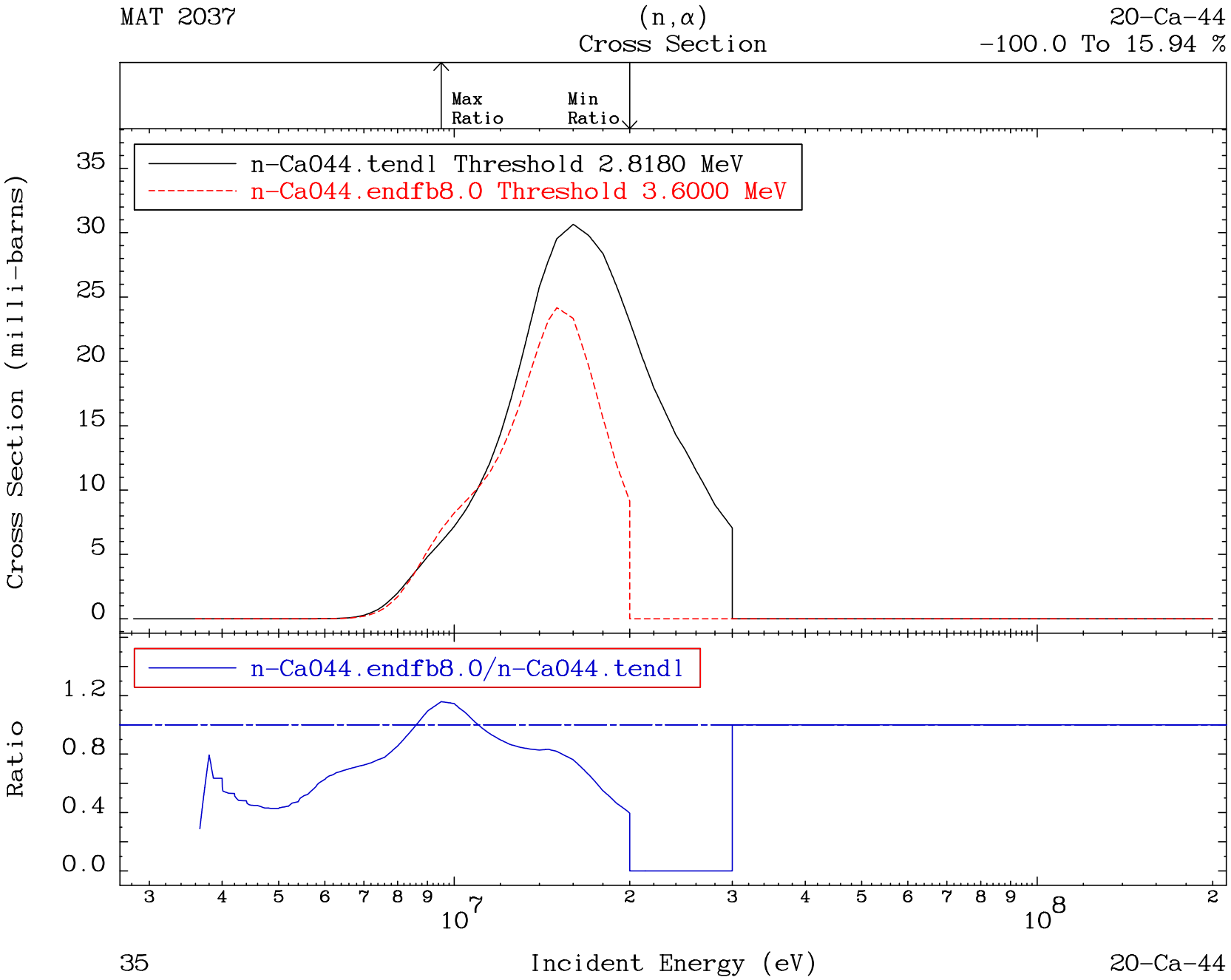

MAT 2037
(n,γ)
Cross Section
20-Ca-44
-100.0 To 1435. %
Max Ratio
Min Ratio
n-Ca044.tendl
n-Ca044.endfb8.0
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
30
20-Ca-44

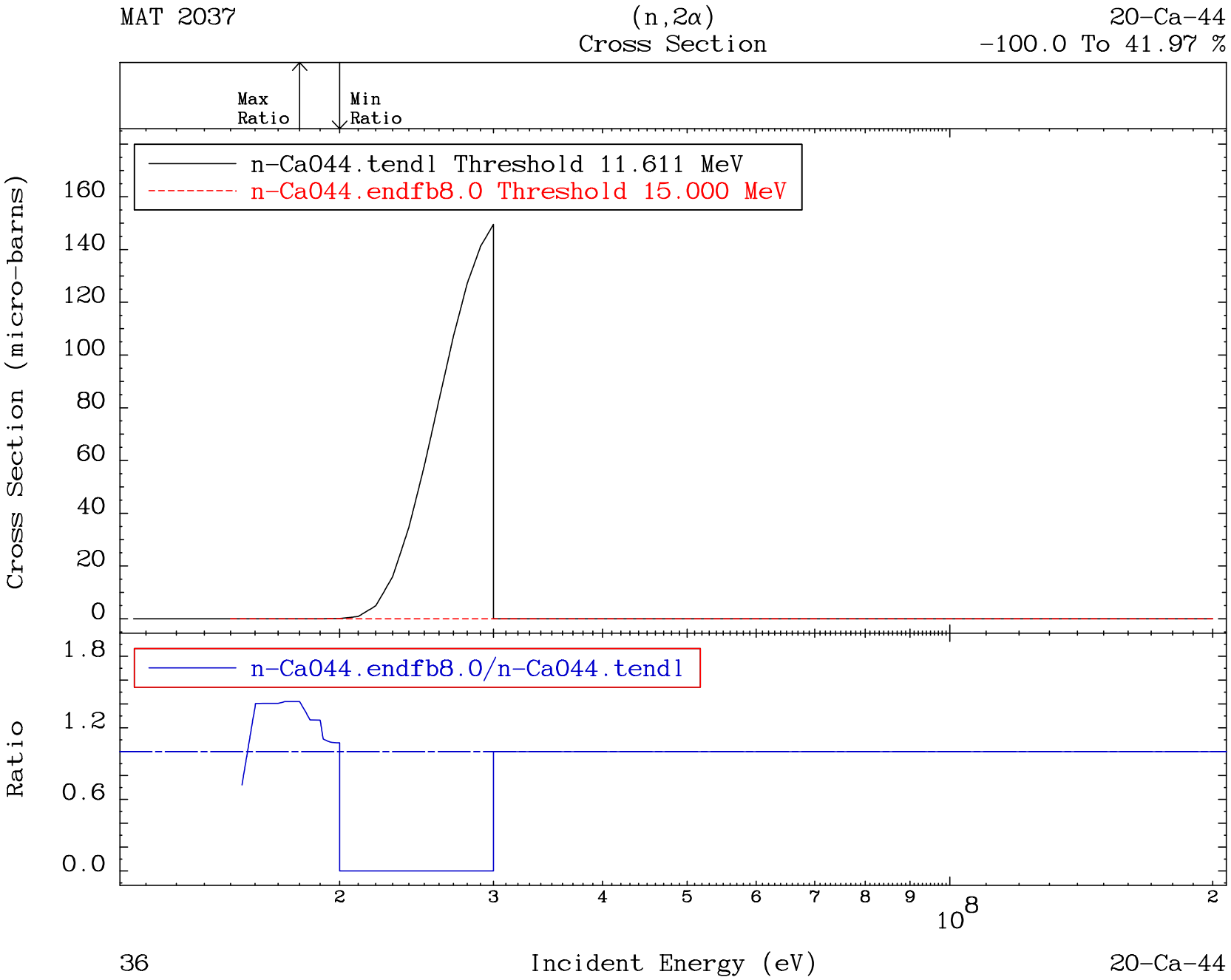

MAT 2037
(n,p)
Cross Section
20-Ca-44
-100.0 To 39.95 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 5.0174 MeV
n-Ca044.endfb8.0 Threshold 5.2000 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.8
1.2
0.6
0.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
20-Ca-44

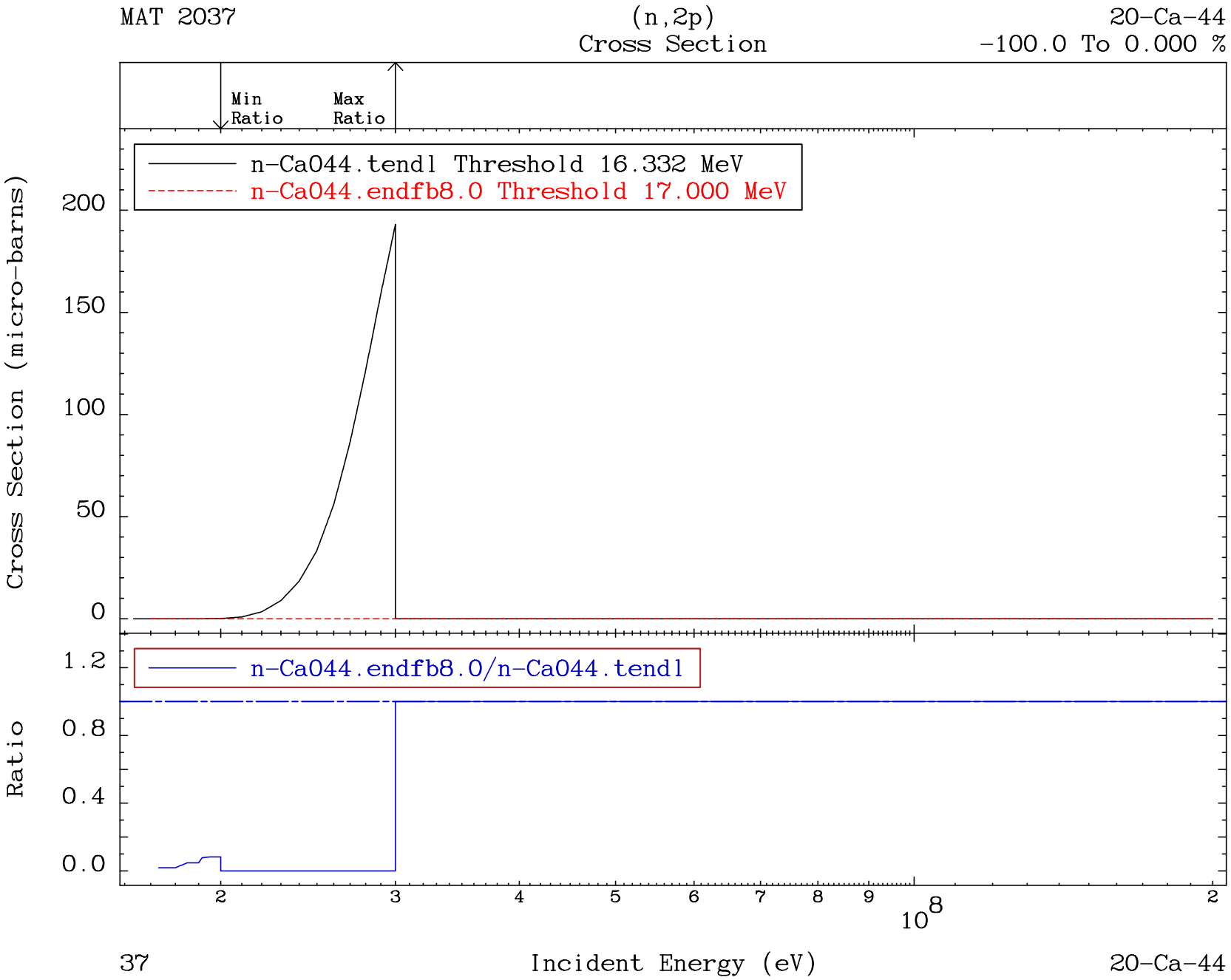

MAT 2037
(n,d)
Cross Section
20-Ca-44
-100.0 To 24.32 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 10.186 MeV
n-Ca044.endfb8.0 Threshold 10.169 MeV
Cross Section (milli-barns)
30
20
10
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.6
1.2
0.8
0.4
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
32
Incident Energy (eV)
20-Ca-44

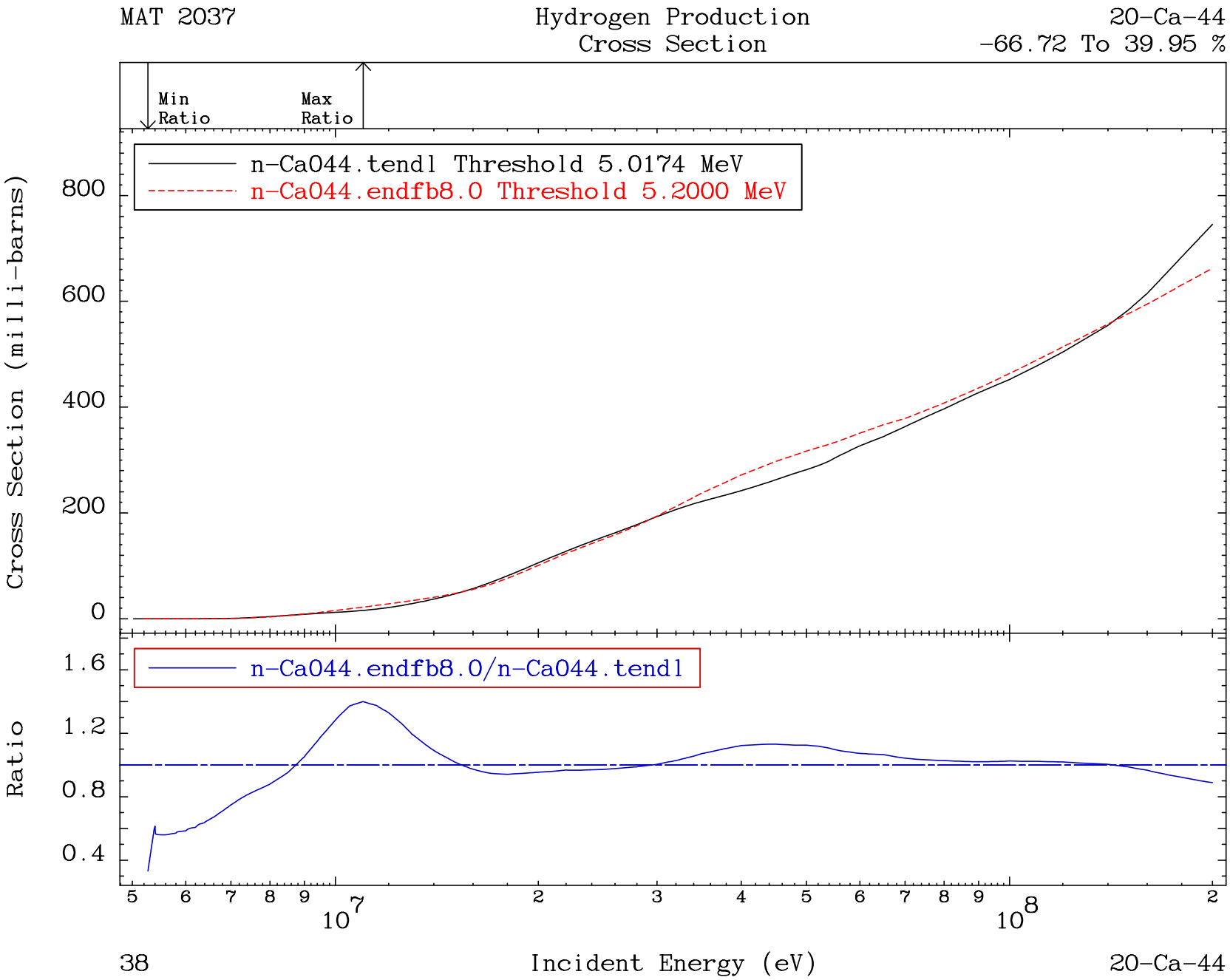

MAT 2037
(n,t)
Cross Section
20-Ca-44
-100.0 To 0.000 %
Min Ratio
Max Ratio
n-Ca044.tendl Threshold 13.631 MeV
n-Ca044.endfb8.0 Threshold 13.631 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
33
Incident Energy (eV)
20-Ca-44

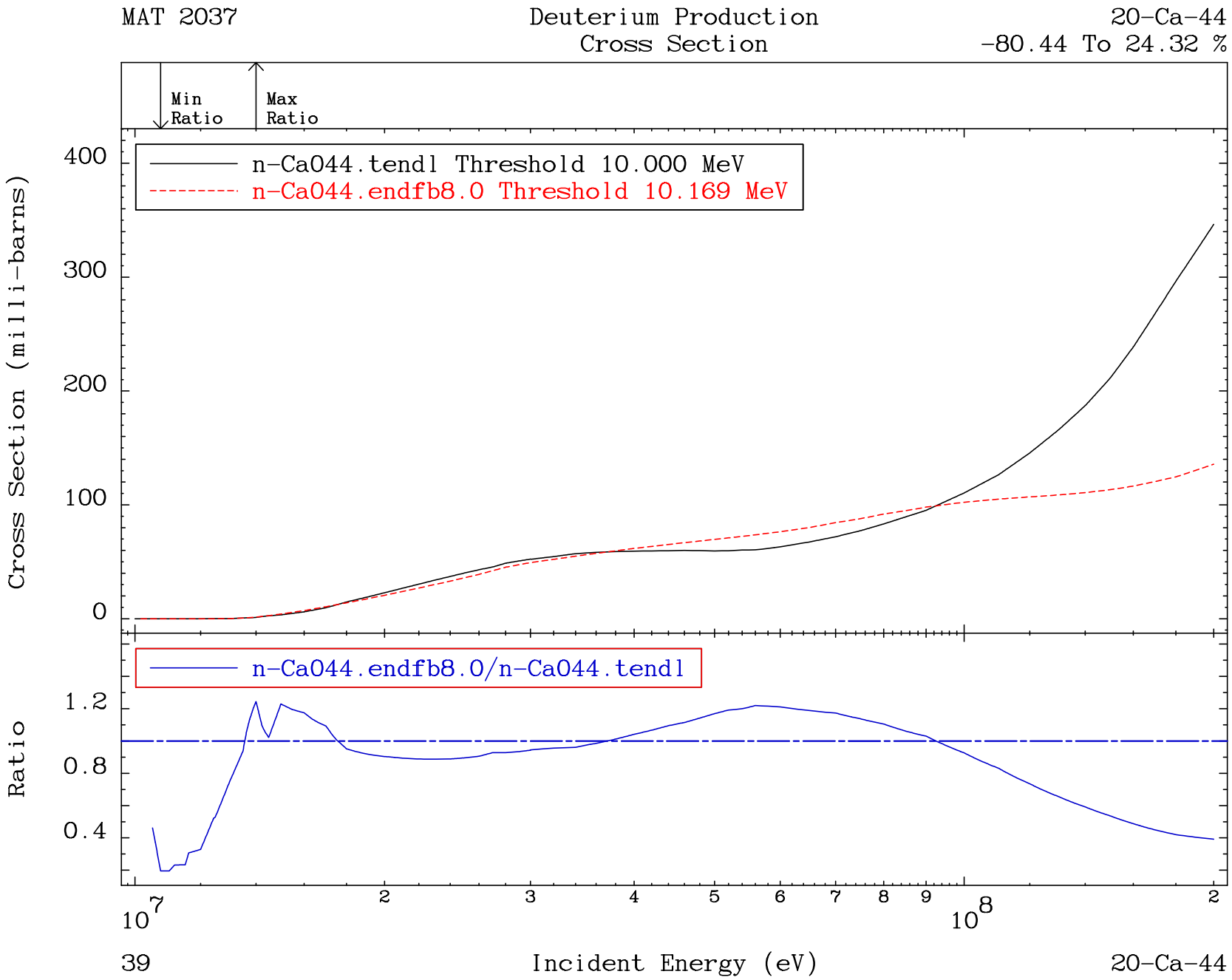

MAT 2037
(n,He-3)
Cross Section
20-Ca-44
-100.0 To 485.3 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 14.225 MeV
n-Ca044.endfb8.0 Threshold 15.000 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
6
4
2
0
2
3
4
5
6
7
8
9
10^8
2
34
Incident Energy (eV)
20-Ca-44

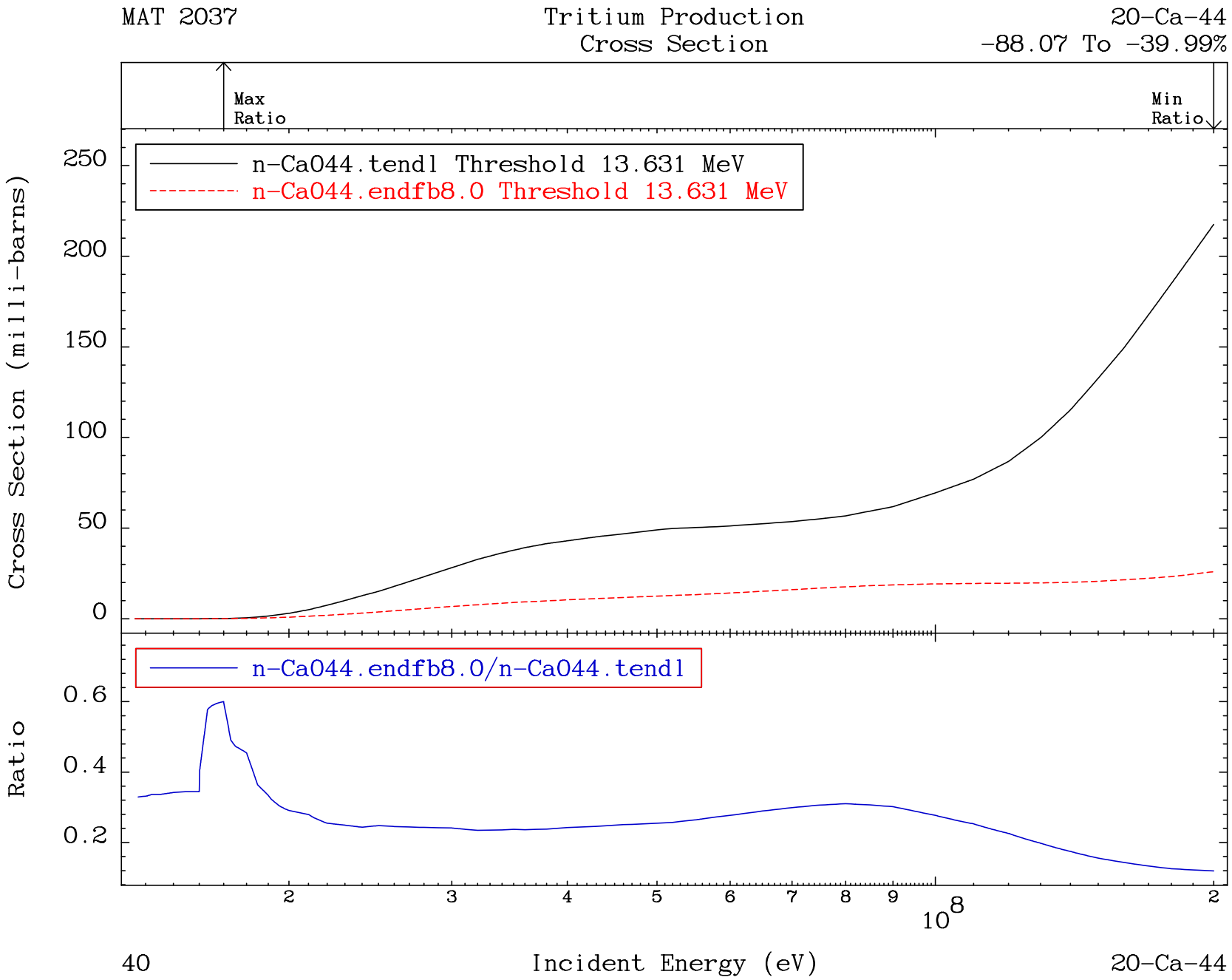

MAT 2037
(n,α)
Cross Section
20-Ca-44
-100.0 To 15.94 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 2.8180 MeV
n-Ca044.endfb8.0 Threshold 3.6000 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.2
0.8
0.4
0.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
20-Ca-44

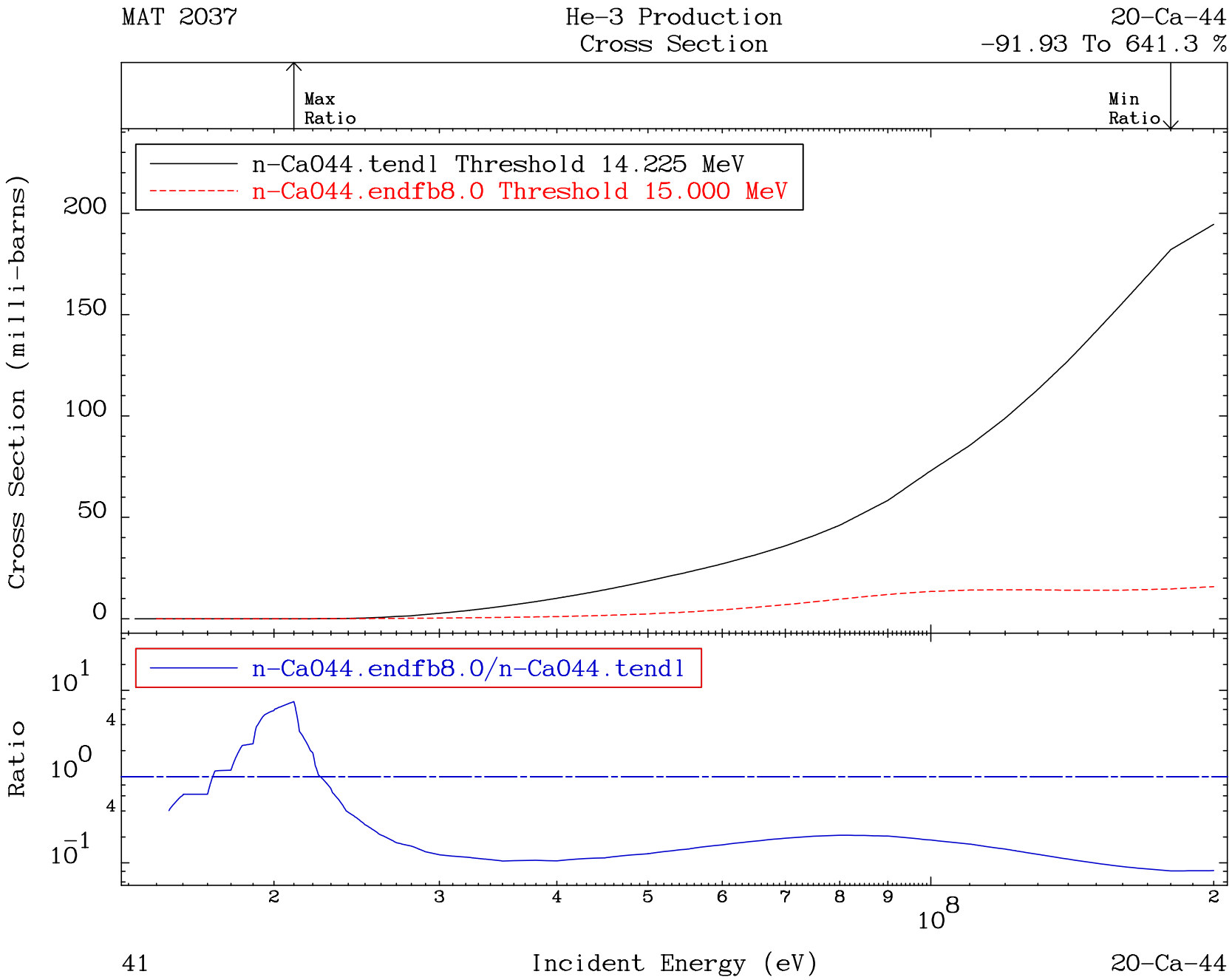

MAT 2037
(n,2α)
Cross Section
20-Ca-44
-100.0 To 41.97 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 11.611 MeV
n-Ca044.endfb8.0 Threshold 15.000 MeV
Cross Section (micro-barns)
160
140
120
100
80
60
40
20
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.8
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
36
Incident Energy (eV)
20-Ca-44

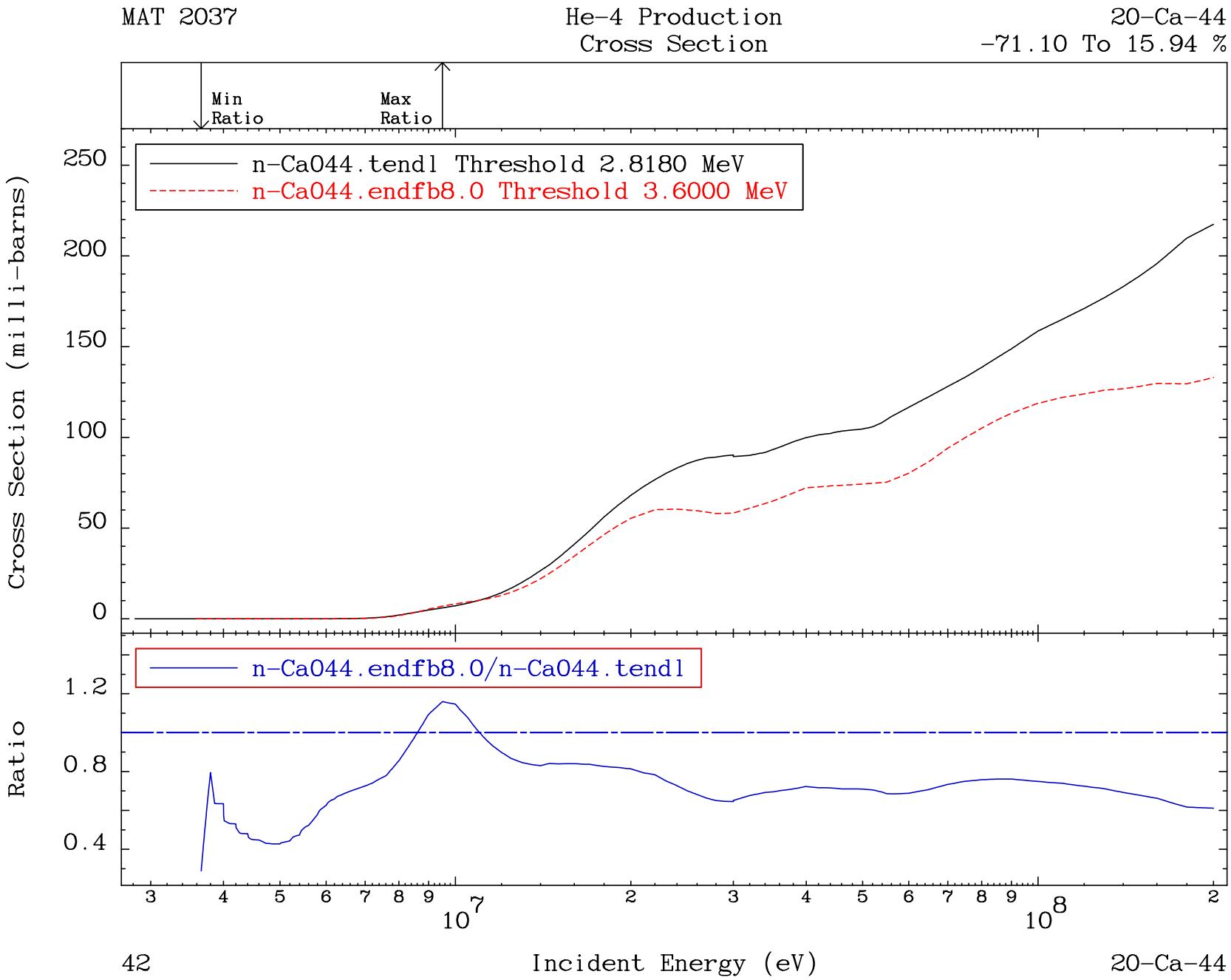

MAT 2037
(n,2p)
Cross Section
20-Ca-44
-100.0 To 0.000 %
Min Ratio
Max Ratio
n-Ca044.tendl Threshold 16.332 MeV
n-Ca044.endfb8.0 Threshold 17.000 MeV
Cross Section (micro-barns)
200
150
100
50
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
37
Incident Energy (eV)
20-Ca-44

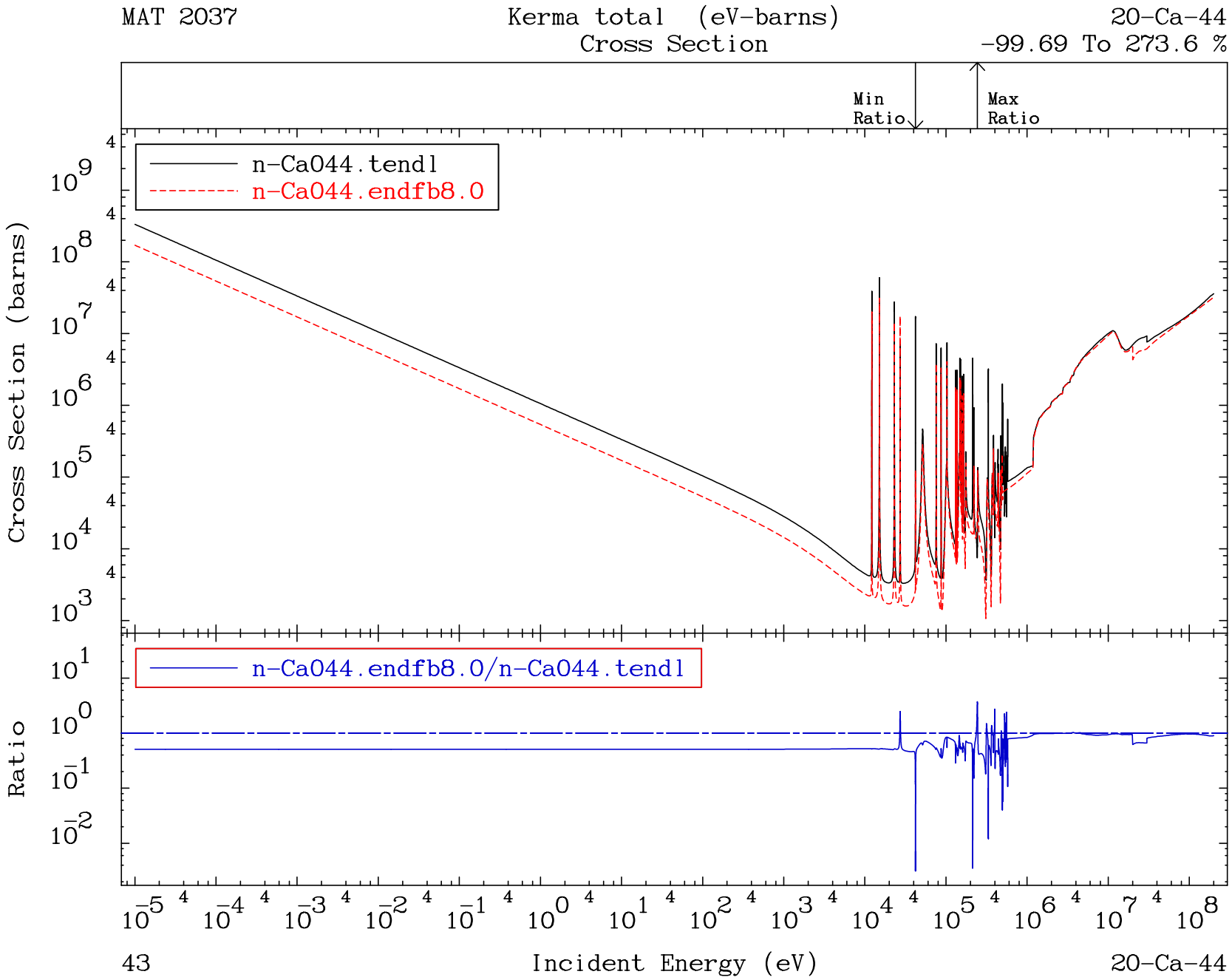

MAT 2037
Hydrogen Production
Cross Section
20-Ca-44
-66.72 To 39.95 %
Min Ratio
Max Ratio
n-Ca044.tendl Threshold 5.0174 MeV
n-Ca044.endfb8.0 Threshold 5.2000 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.6
1.2
0.8
0.4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
20-Ca-44

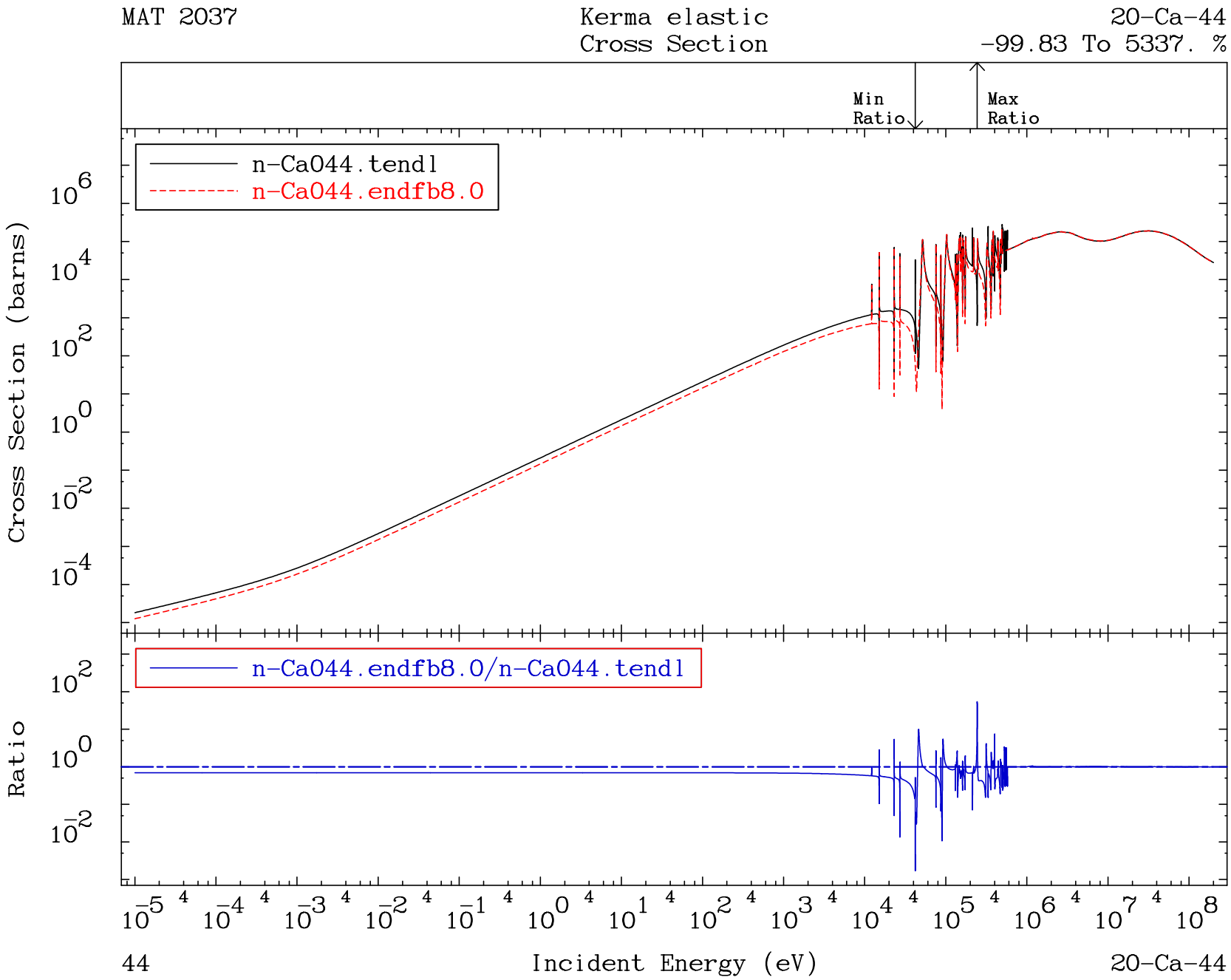

MAT 2037
Deuterium Production
Cross Section
20-Ca-44
-80.44 To 24.32 %
Min Ratio
Max Ratio
n-Ca044.tendl Threshold 10.000 MeV
n-Ca044.endfb8.0 Threshold 10.169 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.2
0.8
0.4
10^7
2
3
4
5
6
7
8
9
10^8
2
39
Incident Energy (eV)
20-Ca-44

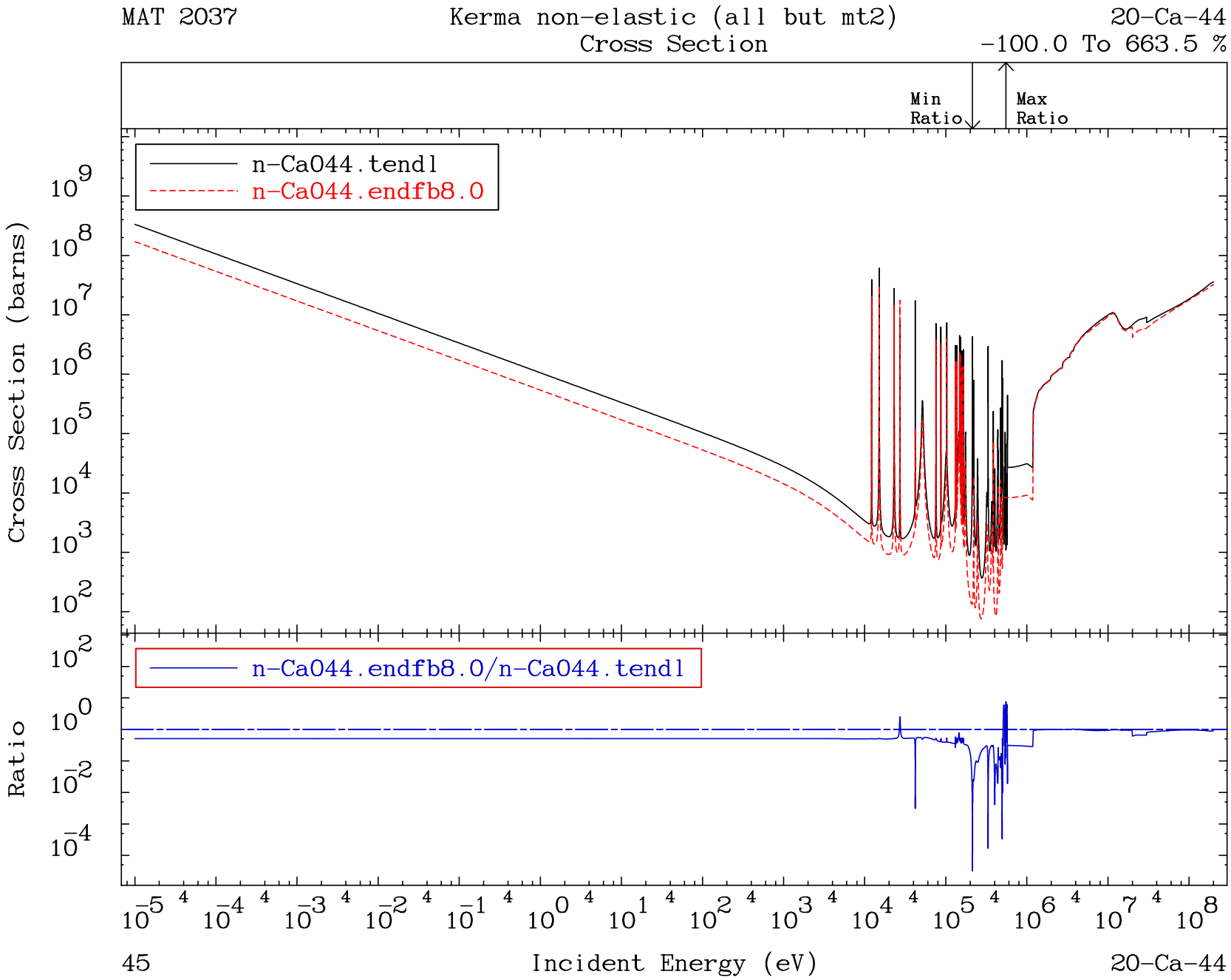

MAT 2037
Tritium Production
Cross Section
20-Ca-44
-88.07 To -39.99%
Max
Ratio
Min
Ratio
n-Ca044.tendl Threshold 13.631 MeV
n-Ca044.endfb8.0 Threshold 13.631 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
0.6
0.4
0.2
2
3
4
5
6
7
8
9
10^8
2
40
Incident Energy (eV)
20-Ca-44

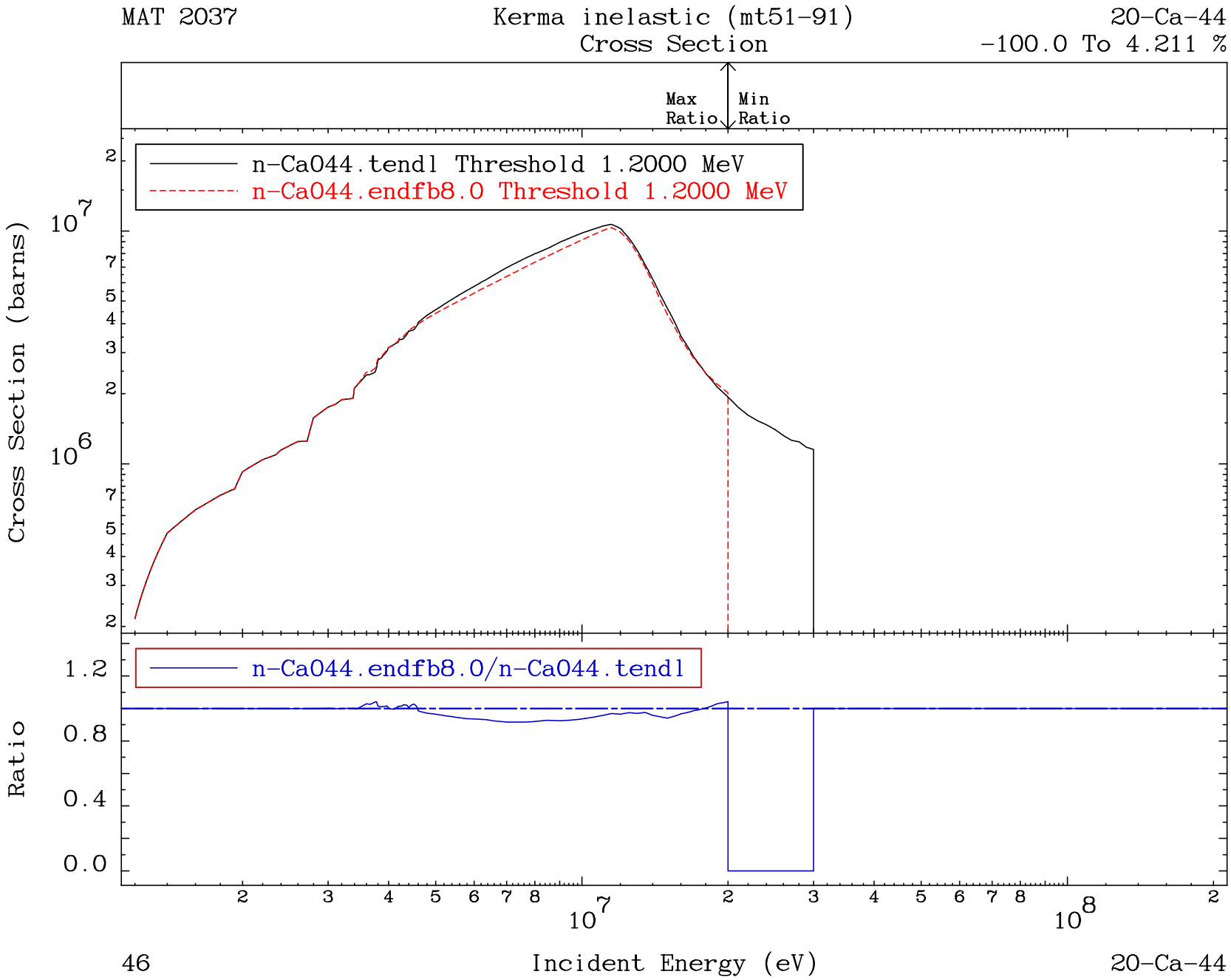

MAT 2037
He-3 Production
Cross Section
20-Ca-44
-91.93 To 641.3 %
Max
Ratio
Min
Ratio
n-Ca044.tendl Threshold 14.225 MeV
n-Ca044.endfb8.0 Threshold 15.000 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
10^1
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
2
41
Incident Energy (eV)
20-Ca-44

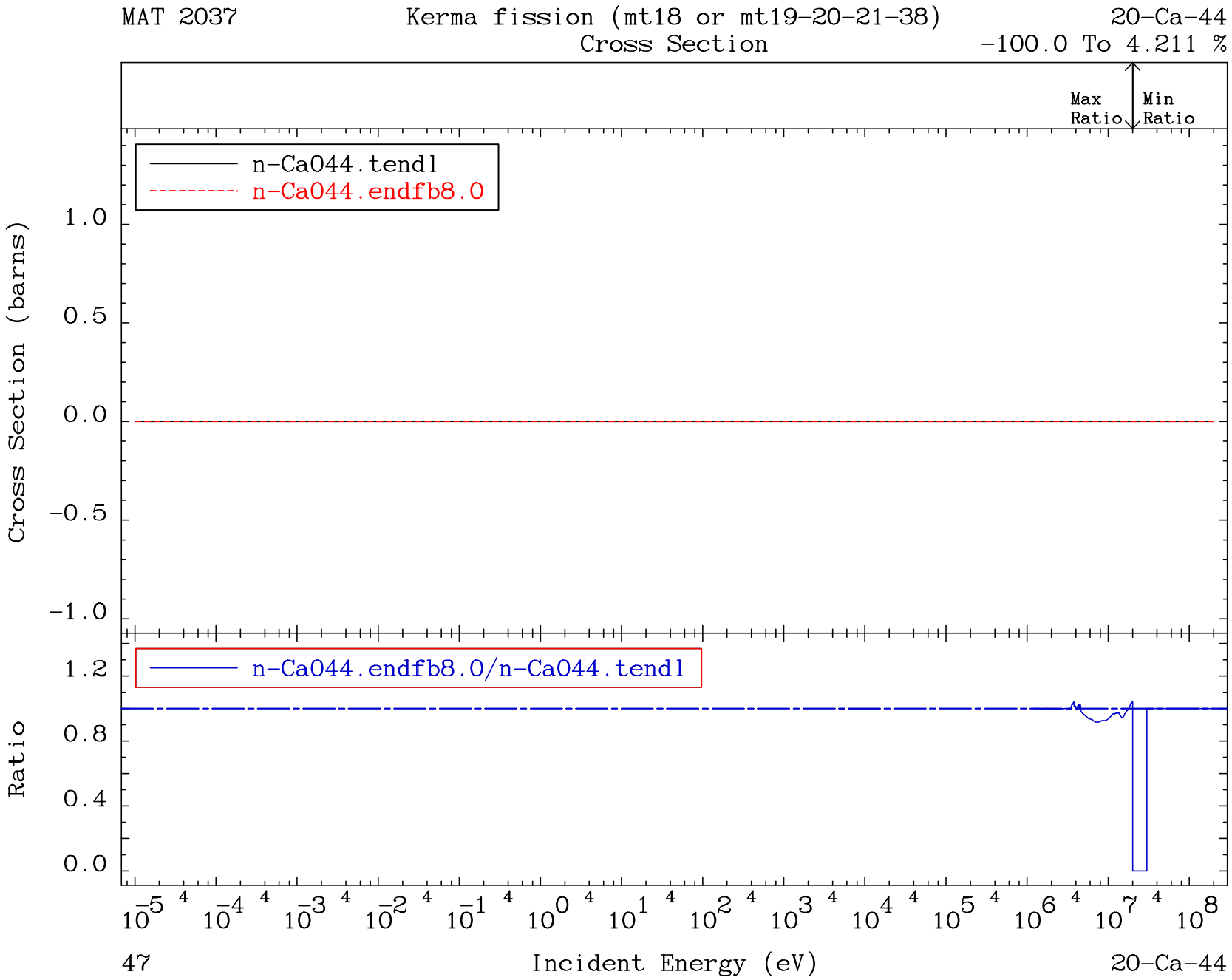

MAT 2037
He-4 Production
Cross Section
20-Ca-44
-71.10 To 15.94 %
Min Ratio
Max Ratio
n-Ca044.tendl Threshold 2.8180 MeV
n-Ca044.endfb8.0 Threshold 3.6000 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
20-Ca-44

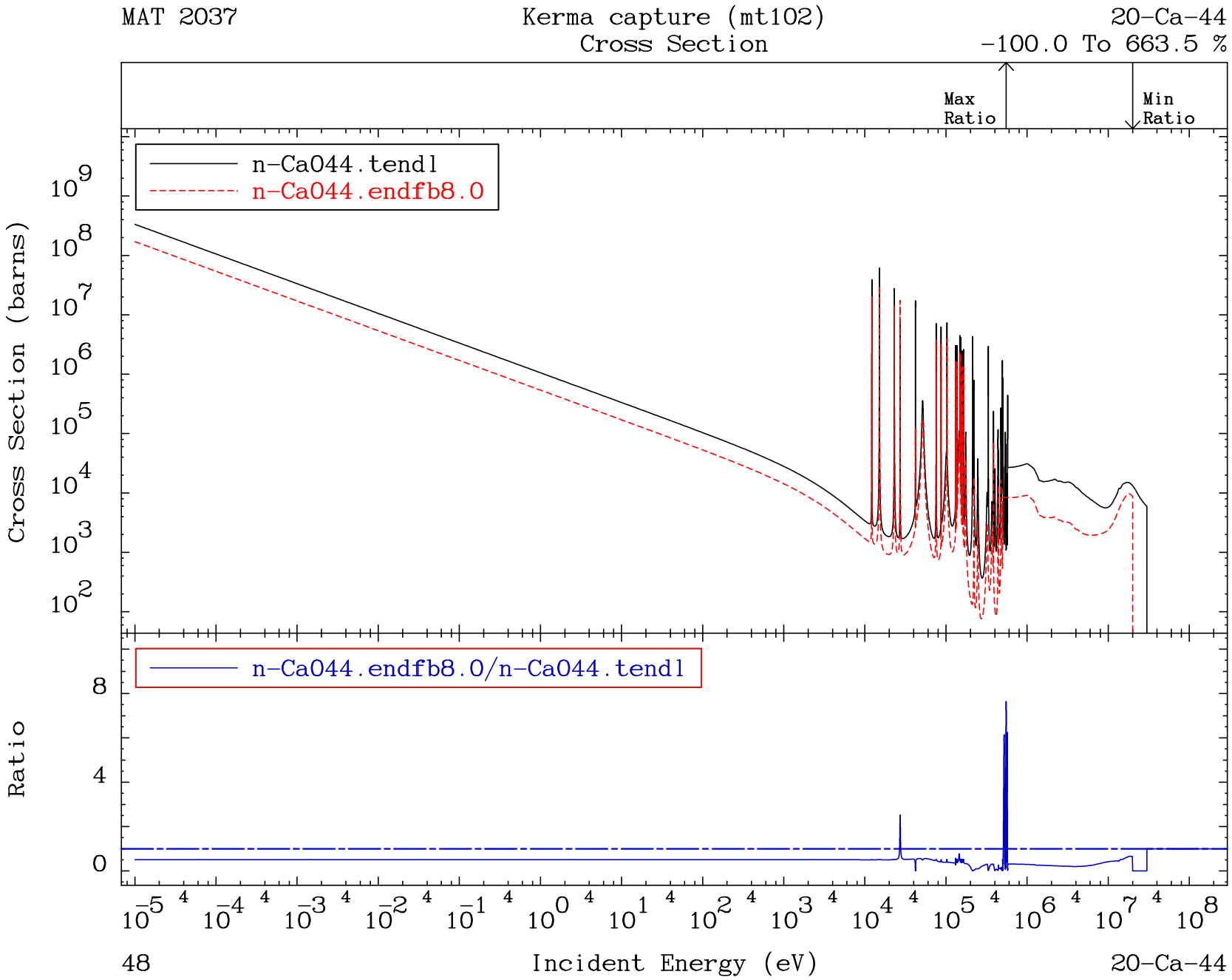

MAT 2037
Kerma total (eV-barns)
Cross Section
20-Ca-44
-99.69 To 273.6 %
Min Ratio
Max Ratio
n-Ca044.tendl
n-Ca044.endfb8.0
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
43
Incident Energy (eV)
20-Ca-44

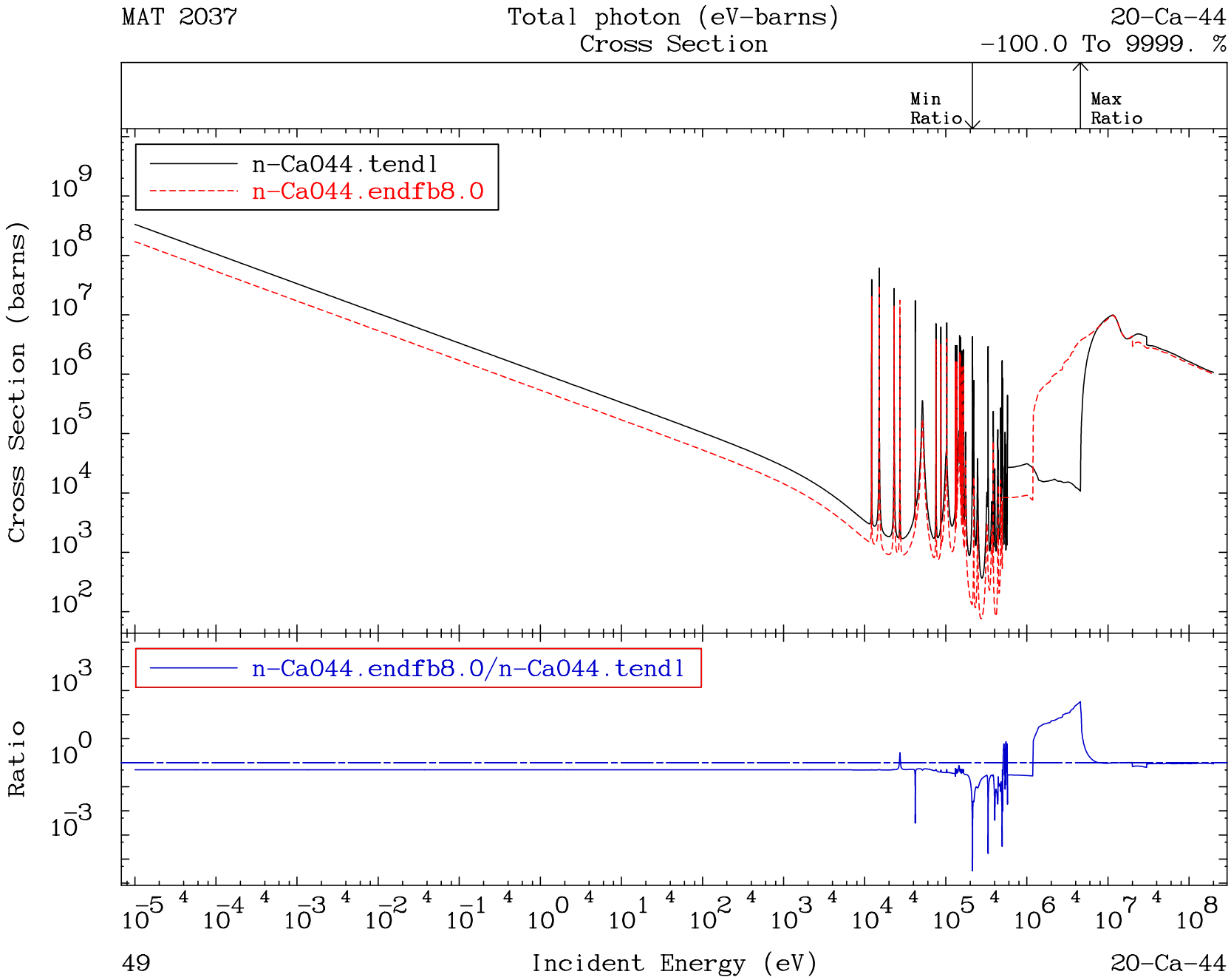

MAT 2037
Kerma elastic
Cross Section
20-Ca-44
-99.83 To 5337. %
Min Ratio
Max Ratio
n-Ca044.tendl
n-Ca044.endfb8.0
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
44
20-Ca-44

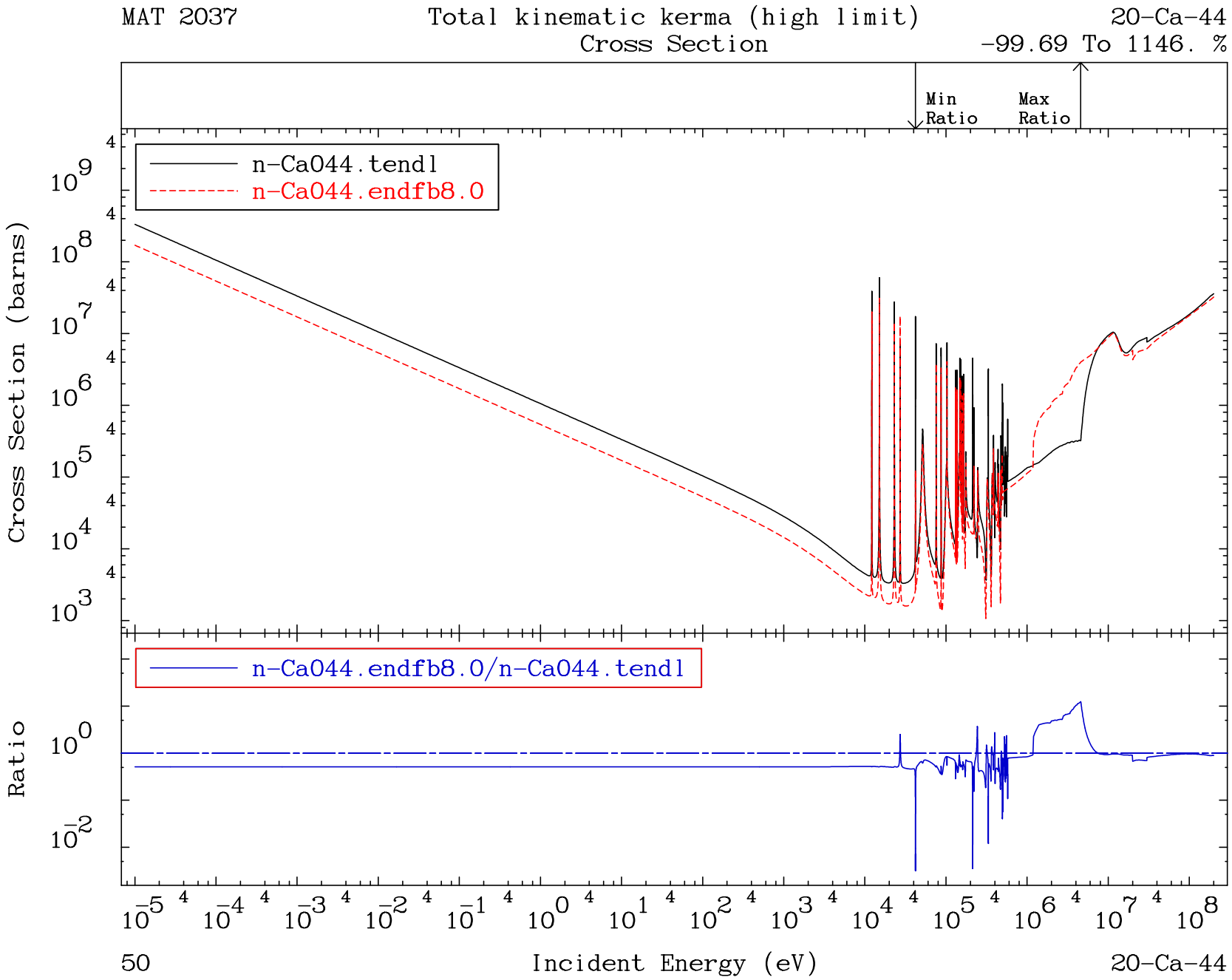

MAT 2037
Kerma non-elastic (all but mt2)
Cross Section
20-Ca-44
-100.0 To 663.5 %
Min Ratio
Max Ratio
n-Ca044.tendl
n-Ca044.endfb8.0
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
45
20-Ca-44

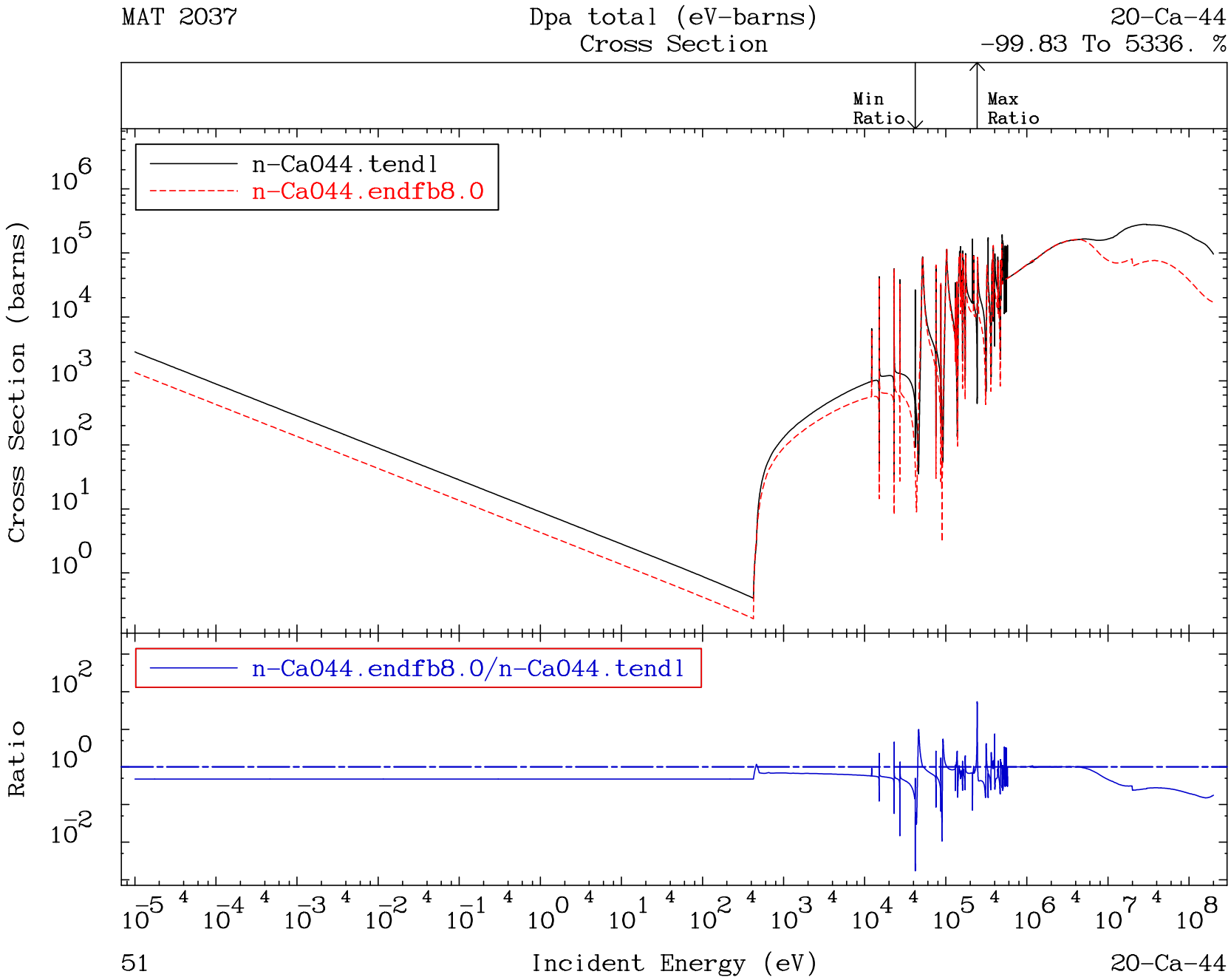

MAT 2037
Kerma inelastic (mt51-91)
Cross Section
20-Ca-44
-100.0 To 4.211 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 1.2000 MeV
n-Ca044.endfb8.0 Threshold 1.2000 MeV
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
46
20-Ca-44

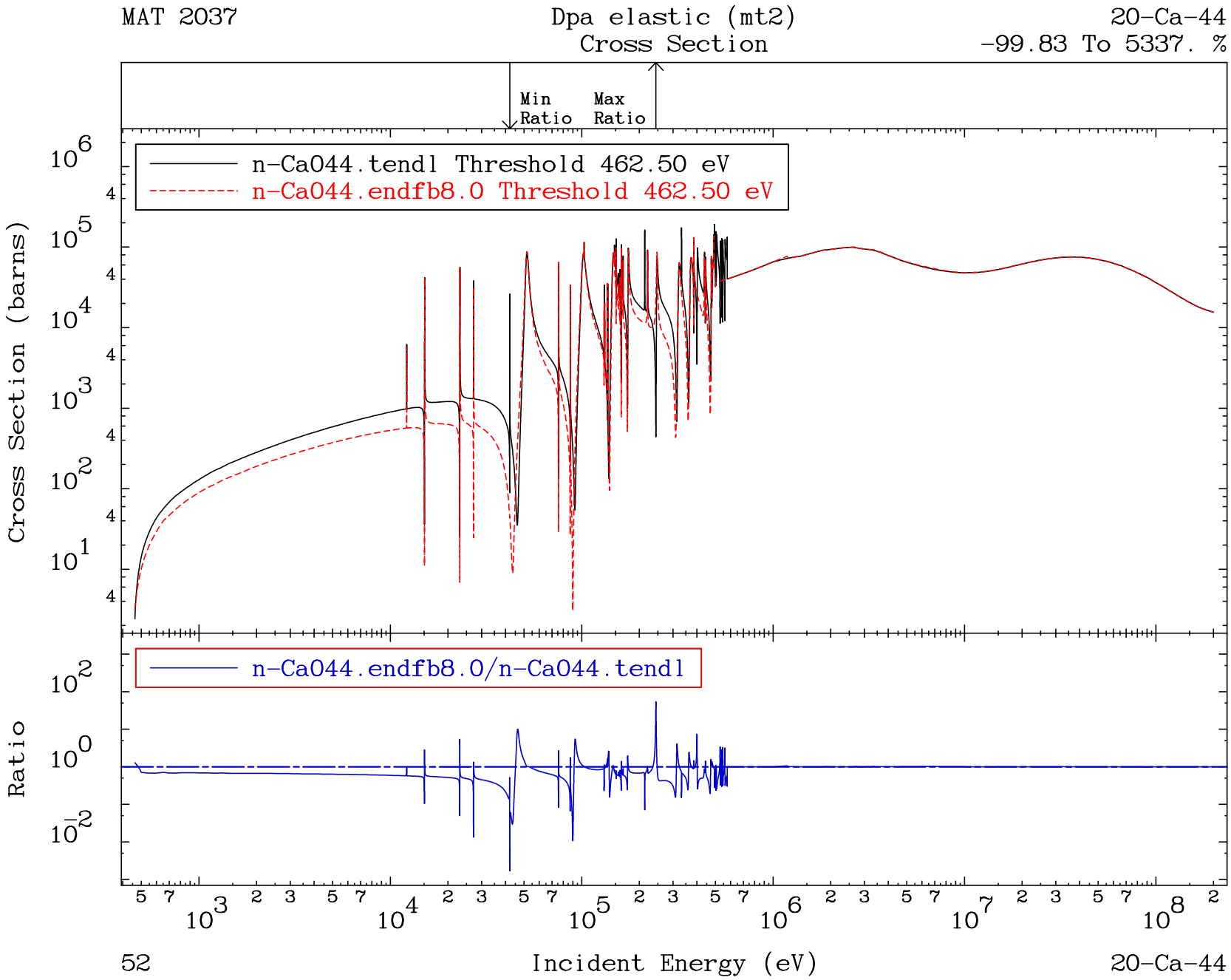

MAT 2037
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
20-Ca-44
-100.0 To 4.211 %
Max Ratio
Min Ratio
n-Ca044.tendl
n-Ca044.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
1.2
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
47
Incident Energy (eV)
20-Ca-44

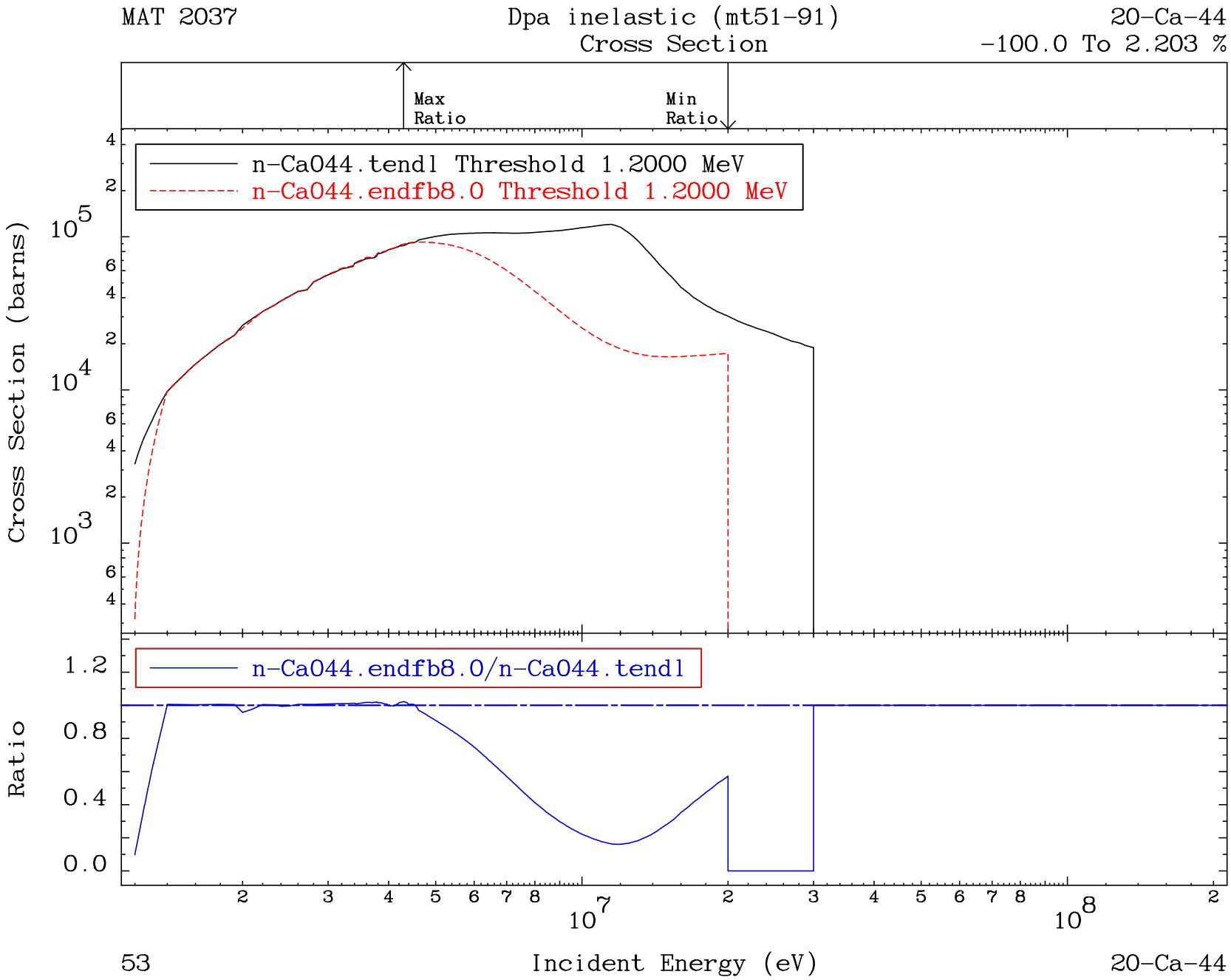

MAT 2037
Kerma capture (mt102)
Cross Section
20-Ca-44
-100.0 To 663.5 %
Max Ratio
Min Ratio
n-Ca044.tendl
n-Ca044.endfb8.0
Cross Section (barns)
10^9
10^8
10^7
10^6
10^5
10^4
10^3
10^2
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
8
4
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
48
Incident Energy (eV)
20-Ca-44

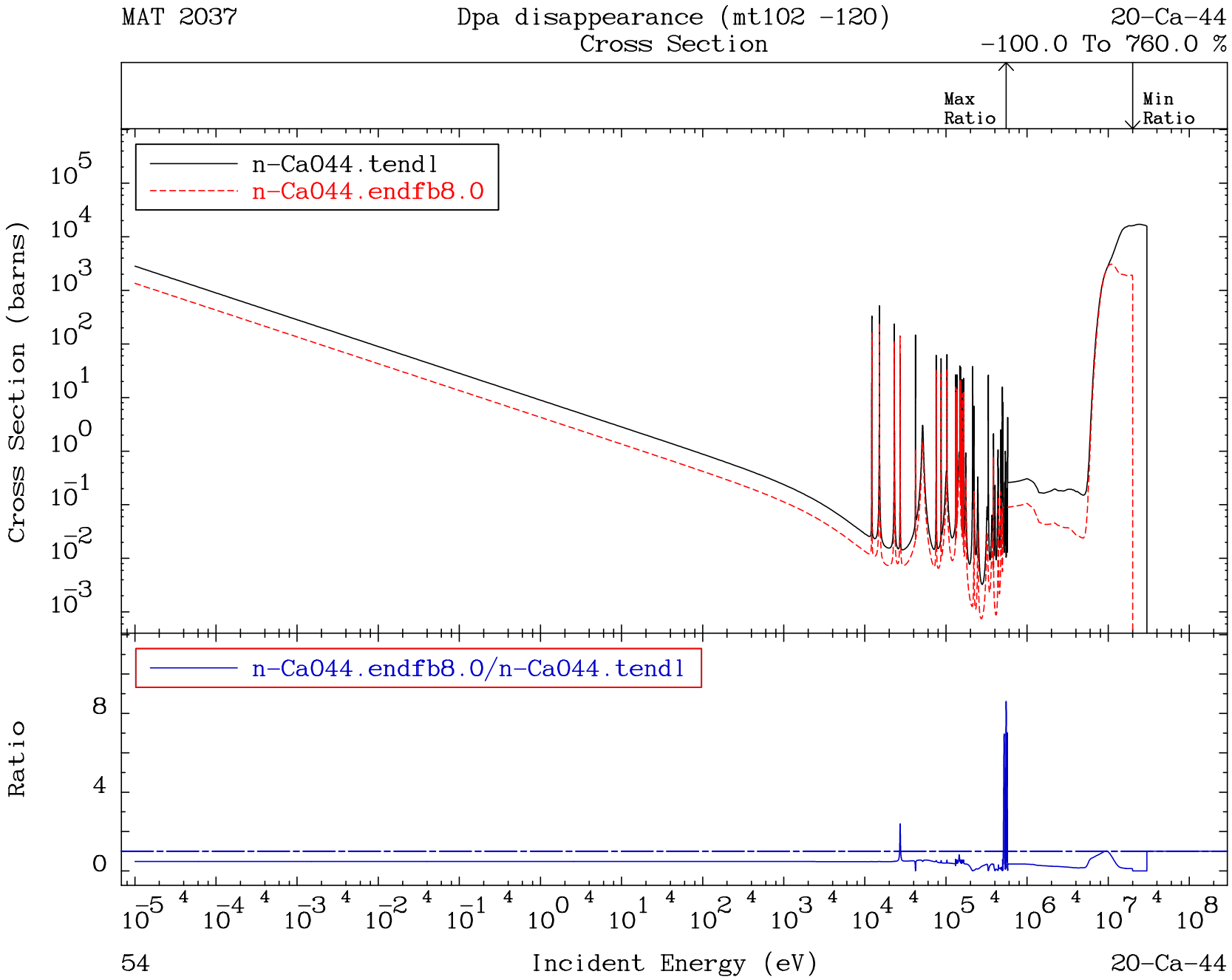

MAT 2037
Total photon (eV-barns)
Cross Section
20-Ca-44
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Ca044.tendl
n-Ca044.endfb8.0
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
49
20-Ca-44


MAT 2037
Total kinematic kerma (high limit)
Cross Section
20-Ca-44
-99.69 To 1146. %
Min Ratio
Max Ratio
n-Ca044.tendl
n-Ca044.endfb8.0
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
50
20-Ca-44


MAT 2037
Dpa total (eV-barns)
Cross Section
20-Ca-44
-99.83 To 5336. %
Min Ratio
Max Ratio
n-Ca044.tendl
n-Ca044.endfb8.0
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
51
20-Ca-44


MAT 2037
Dpa elastic (mt2)
Cross Section
20-Ca-44
-99.83 To 5337. %
Min Ratio
Max Ratio
n-Ca044.tendl Threshold 462.50 eV
n-Ca044.endfb8.0 Threshold 462.50 eV
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
52
20-Ca-44


MAT 2037
Dpa inelastic (mt51-91)
Cross Section
20-Ca-44
-100.0 To 2.203 %
Max Ratio
Min Ratio
n-Ca044.tendl Threshold 1.2000 MeV
n-Ca044.endfb8.0 Threshold 1.2000 MeV
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
53
20-Ca-44


MAT 2037
Dpa disappearance (mt102 -120)
Cross Section
20-Ca-44
-100.0 To 760.0 %
Max Ratio
Min Ratio
n-Ca044.tendl
n-Ca044.endfb8.0
Cross Section (barns)
n-Ca044.endfb8.0/n-Ca044.tendl
Ratio
Incident Energy (eV)
54
20-Ca-44