Program Complot
(Version 2018-1)
by
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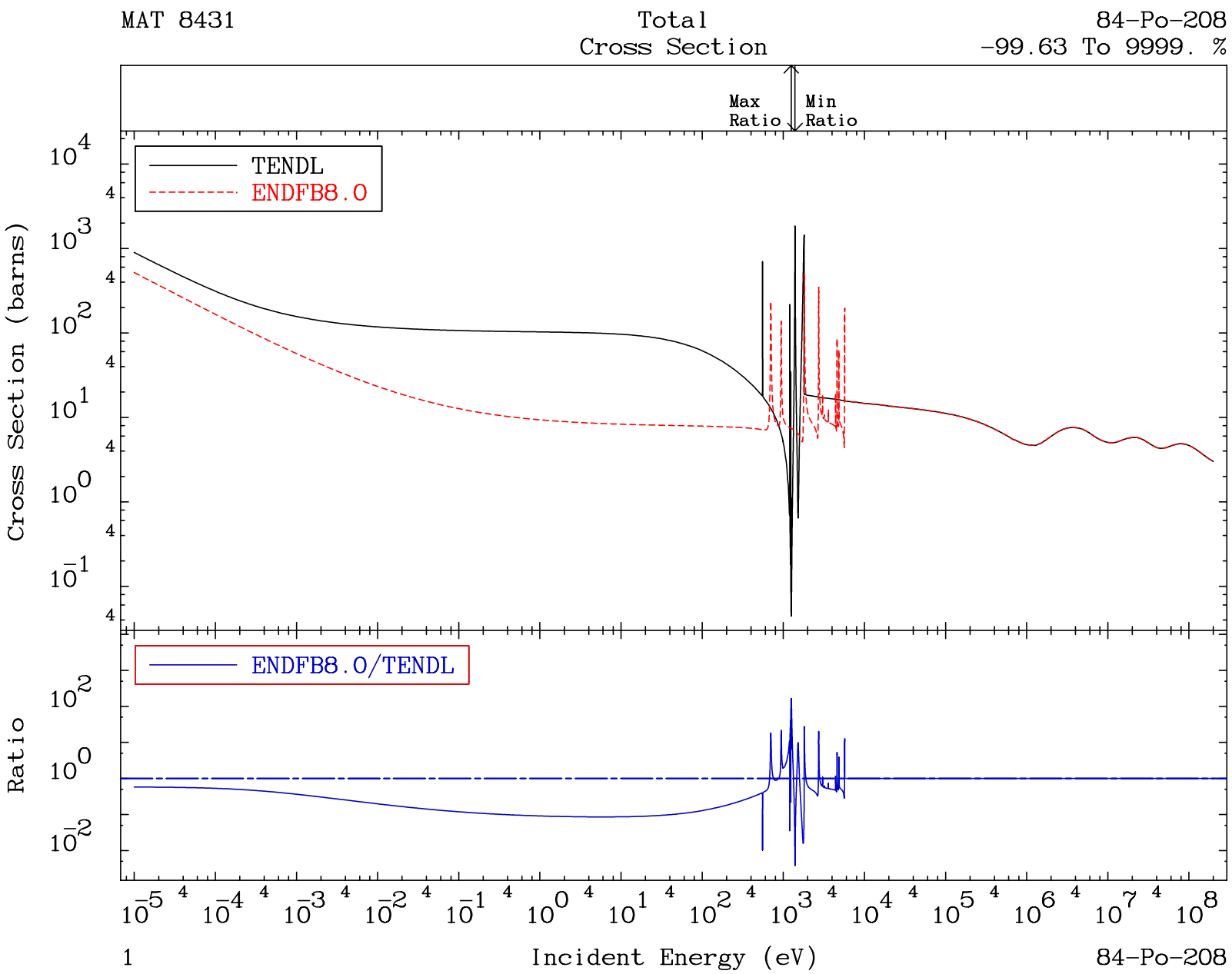
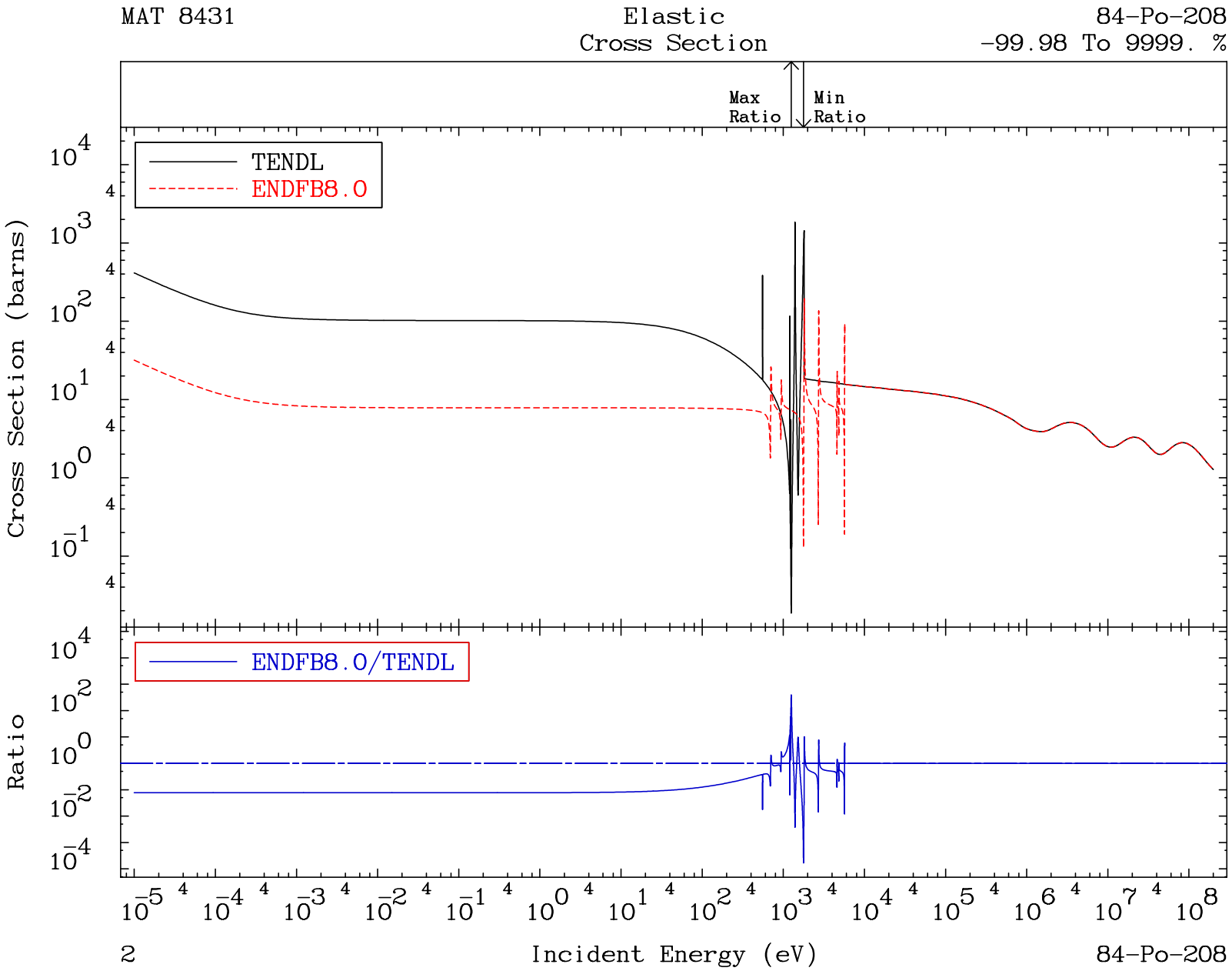
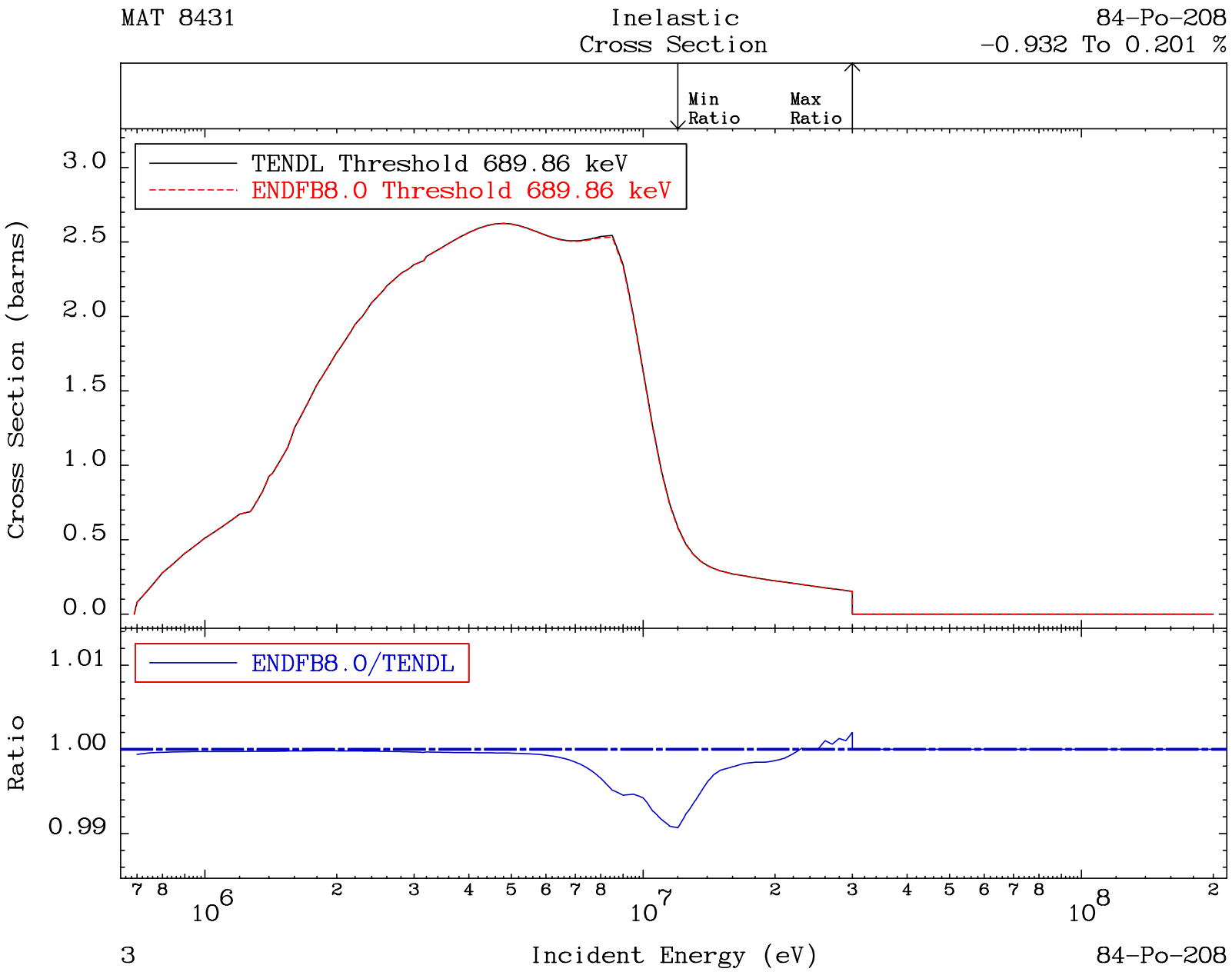
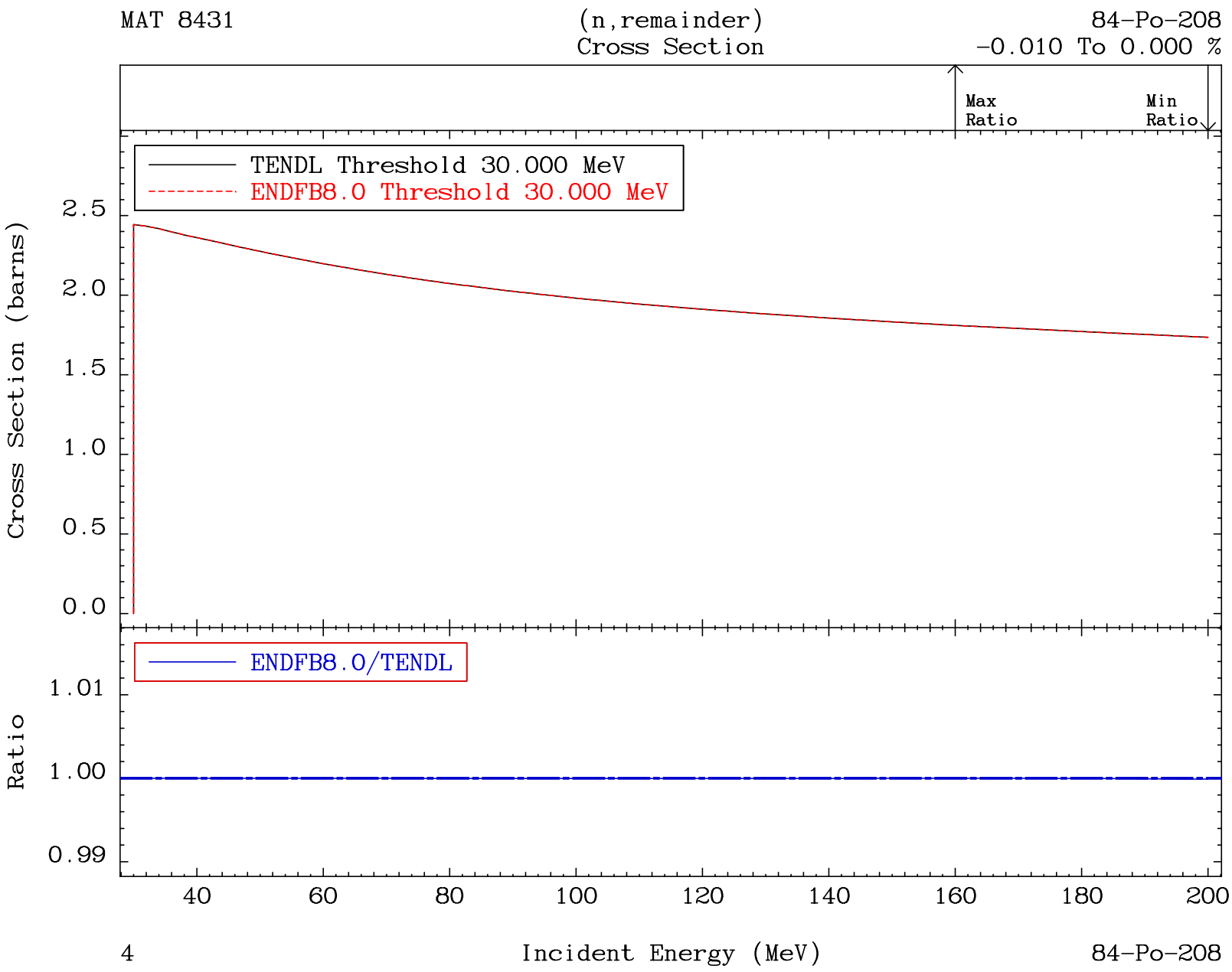
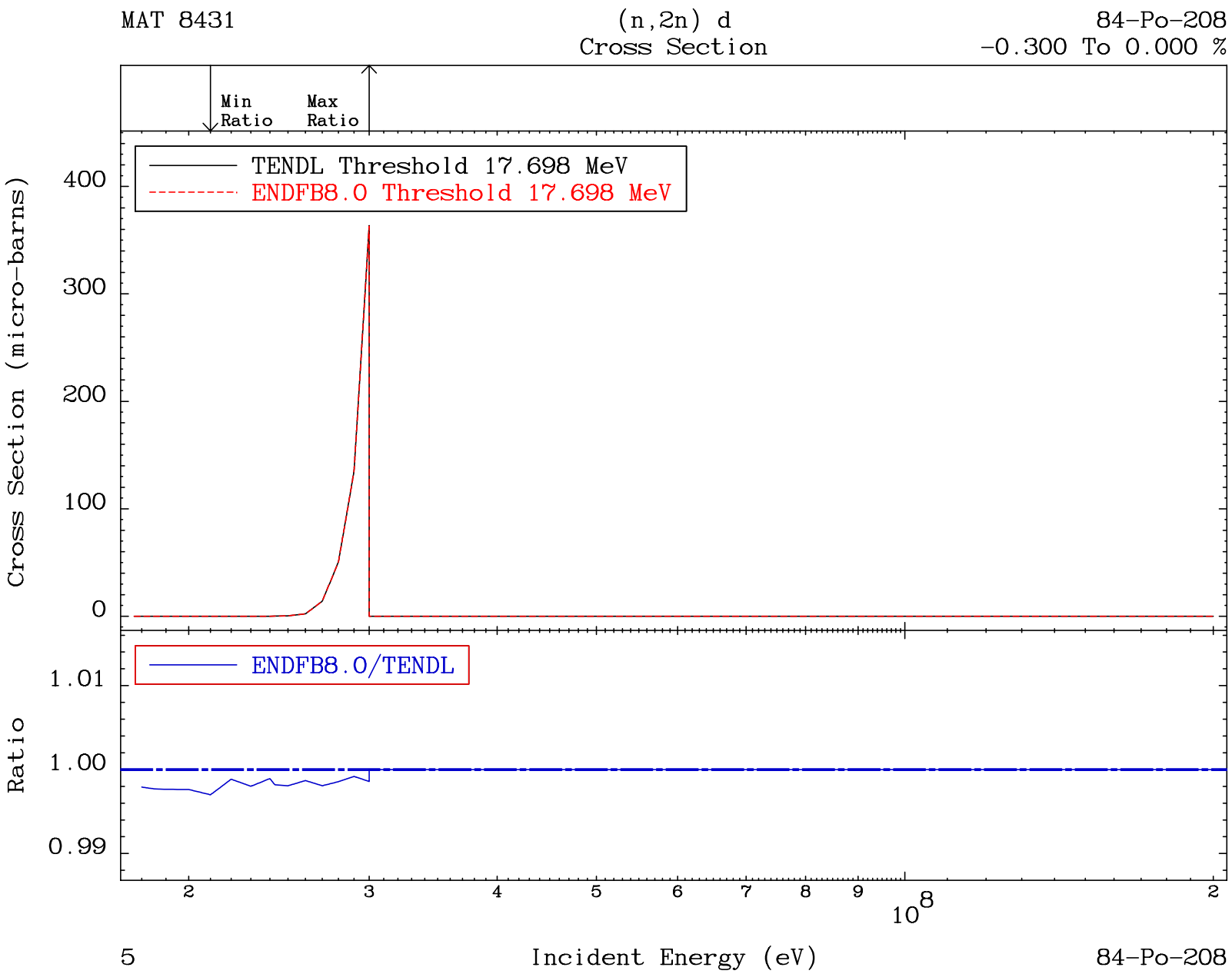
Press Mouse Button to Start

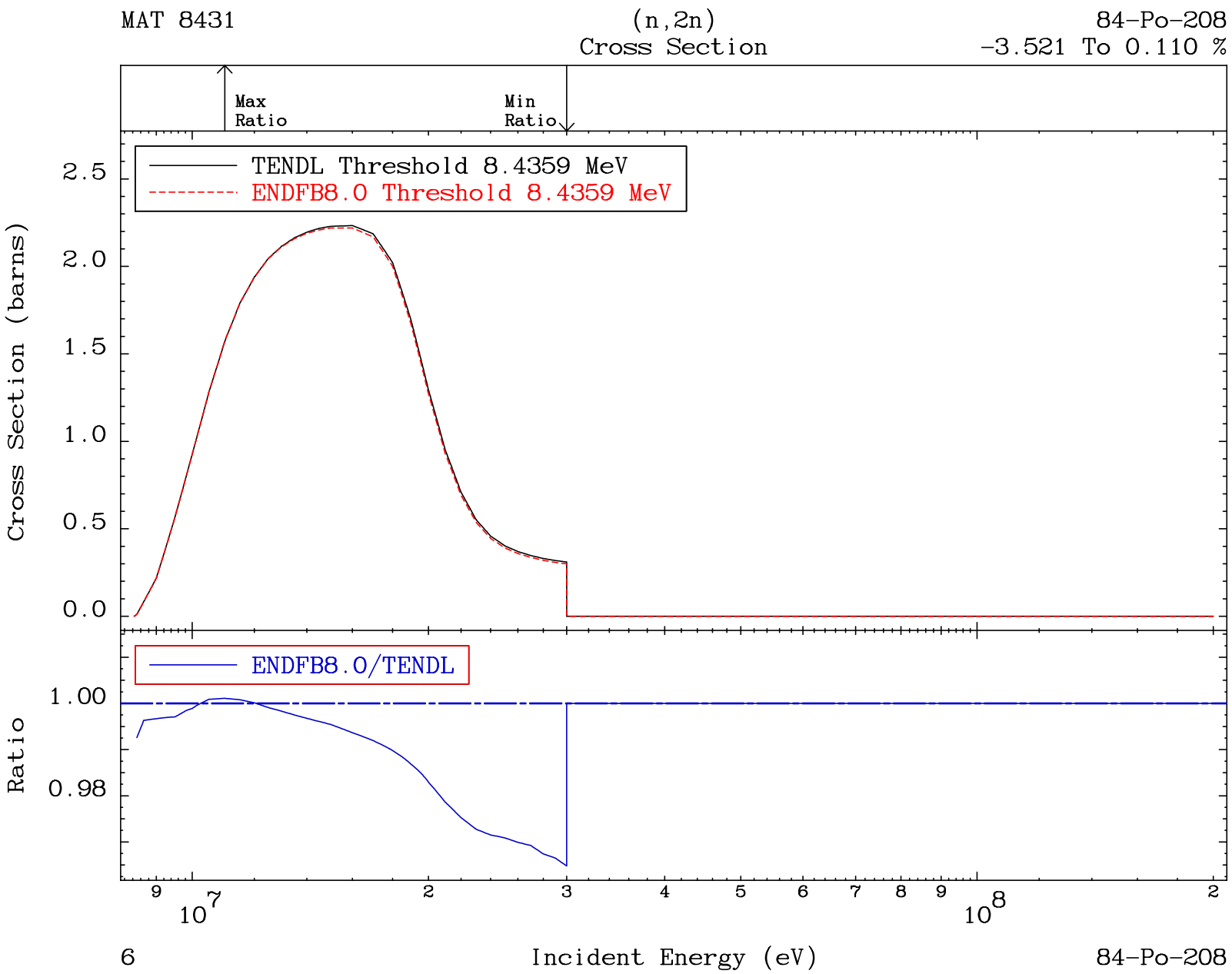

MAT 8431
Total
Cross Section
84-Po-208
-99.63 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
1
84-Po-208

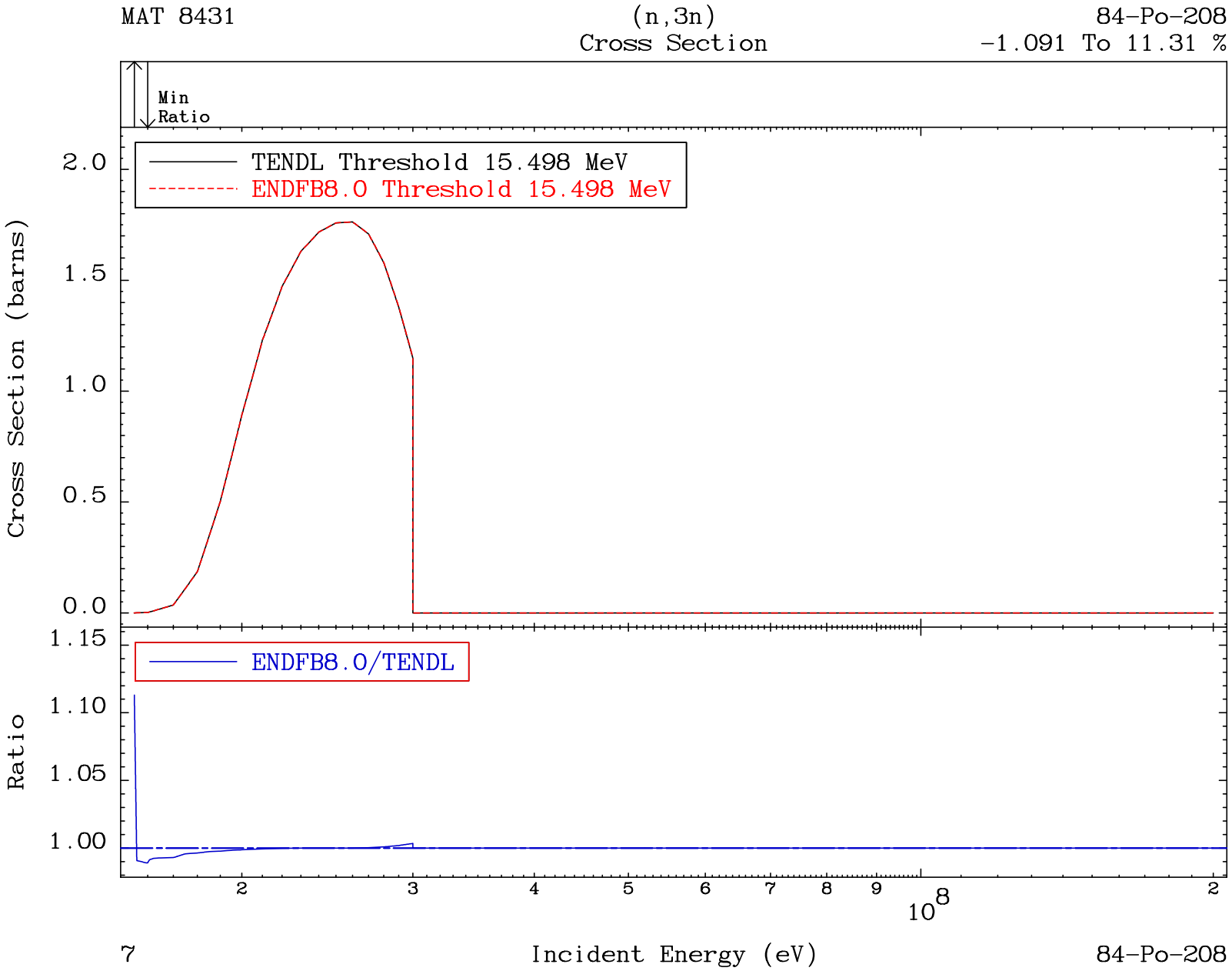

MAT 8431
Elastic
Cross Section
84-Po-208
-99.98 To 9999. %
Max
Ratio
Min
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
2
84-Po-208

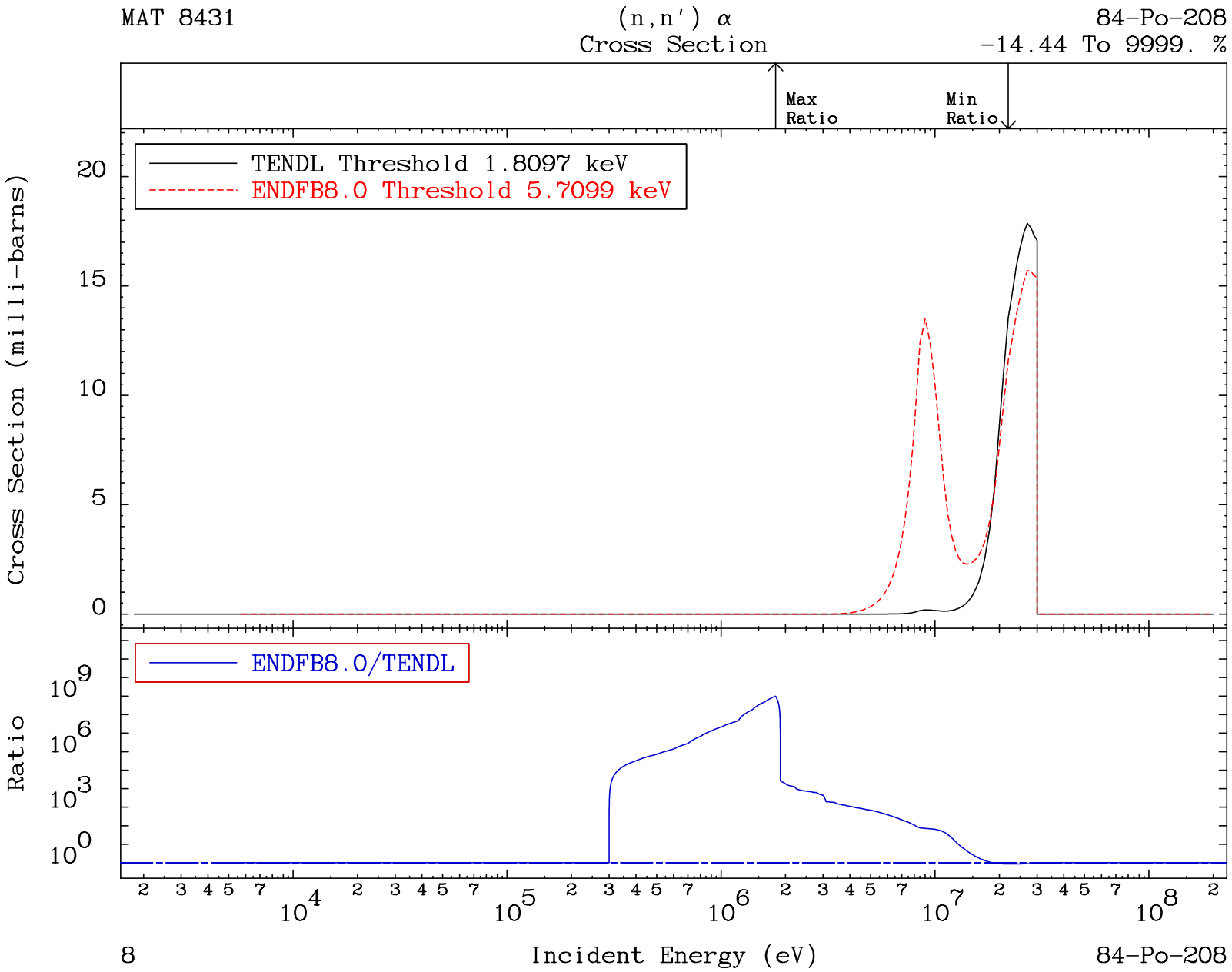

MAT 8431
Inelastic
Cross Section
84-Po-208
-0.932 To 0.201 %
Min
Ratio
Max
Ratio
TENDL Threshold 689.86 keV
ENDFB8.0 Threshold 689.86 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
3
Incident Energy (eV)
84-Po-208

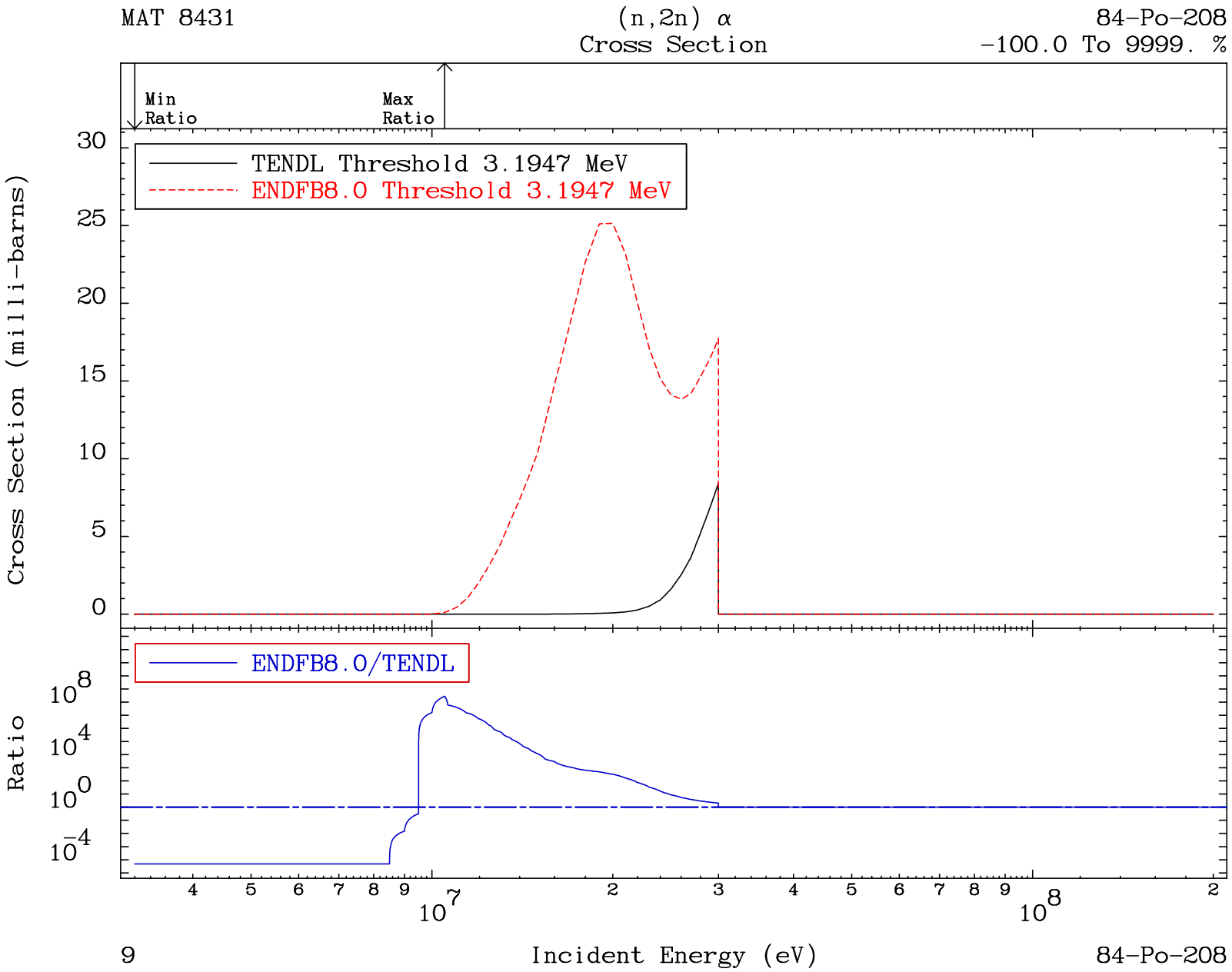

MAT 8431
(n,remainder)
Cross Section
84-Po-208
-0.010 To 0.000 %
Max
Ratio
Min
Ratio
TENDL Threshold 30.000 MeV
ENDFB8.0 Threshold 30.000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
84-Po-208

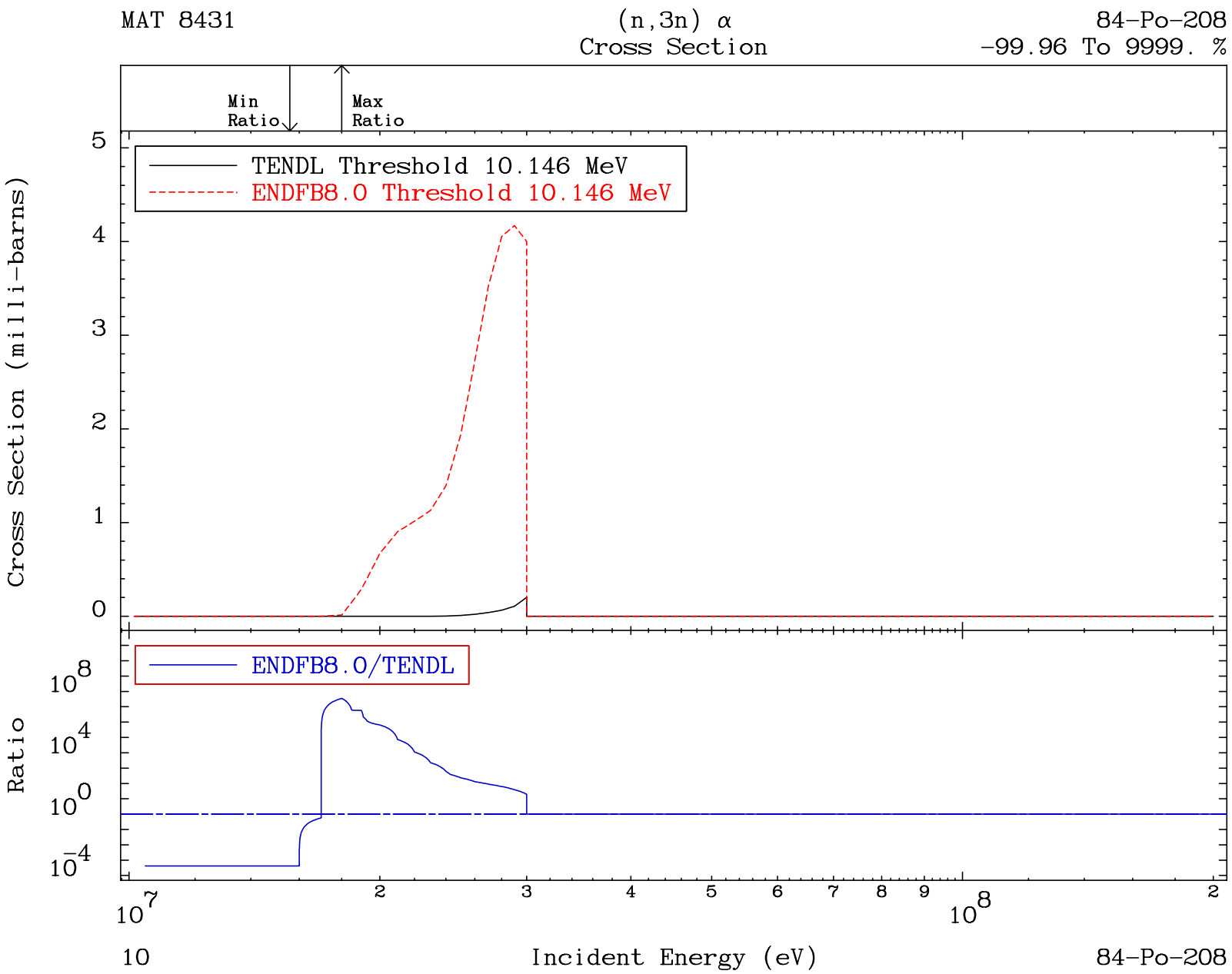

MAT 8431
(n,2n) d
Cross Section
84-Po-208
-0.300 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 17.698 MeV
ENDFB8.0 Threshold 17.698 MeV
Cross Section (micro-barns)
400
300
200
100
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
84-Po-208

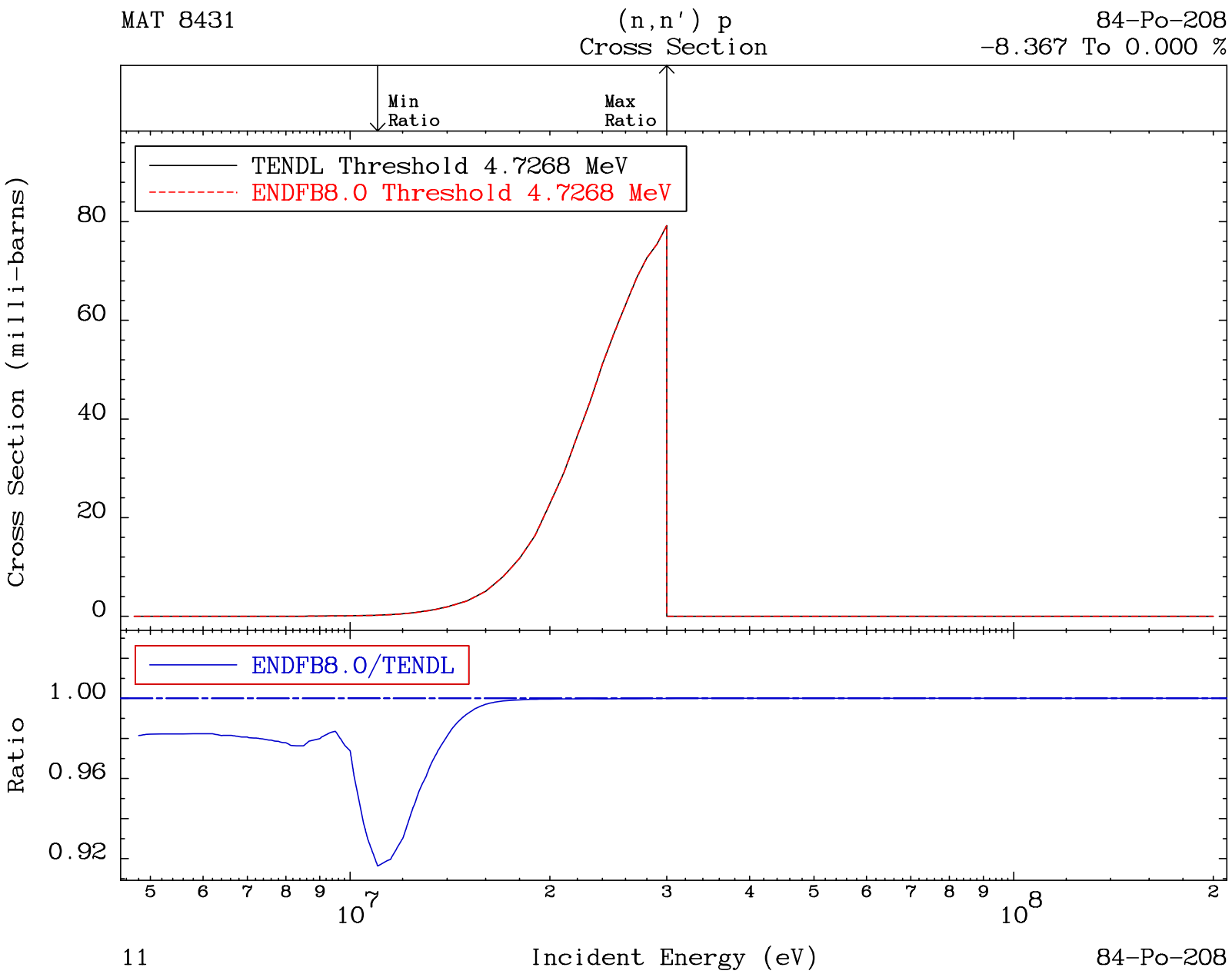

MAT 8431
(n,2n)
Cross Section
84-Po-208
-3.521 To 0.110 %
Max
Ratio
Min
Ratio
TENDL Threshold 8.4359 MeV
ENDFB8.0 Threshold 8.4359 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
1.00
0.98
9
10^7
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
84-Po-208

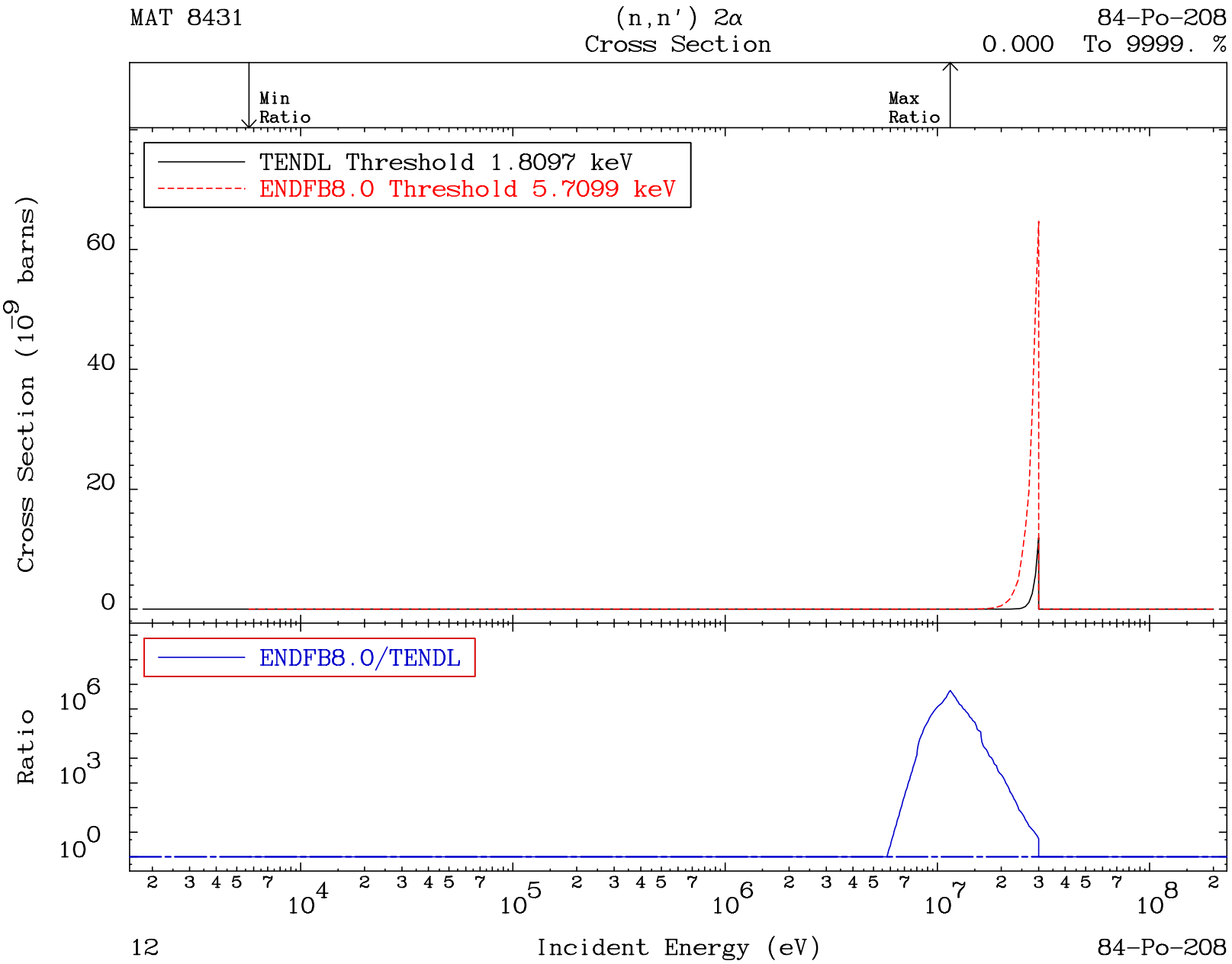

MAT 8431
(n,3n)
Cross Section
84-Po-208
-1.091 To 11.31 %
Min
Ratio
TENDL Threshold 15.498 MeV
ENDFB8.0 Threshold 15.498 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
1.15
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
84-Po-208

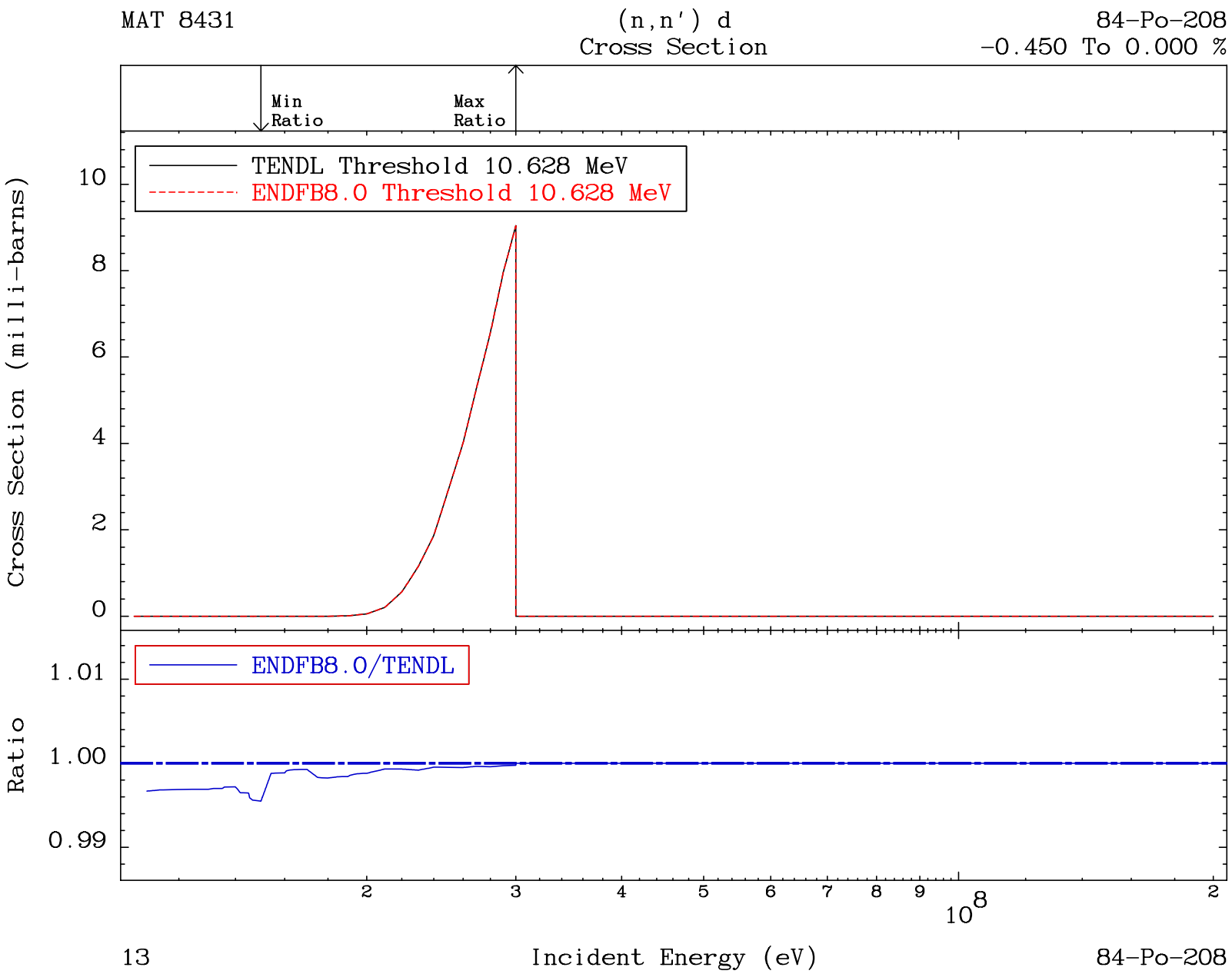

MAT 8431
(n,n') α
Cross Section
84-Po-208
-14.44 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.8097 keV
ENDFB8.0 Threshold 5.7099 keV
Cross Section (milli-barns)
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
8
Incident Energy (eV)
84-Po-208

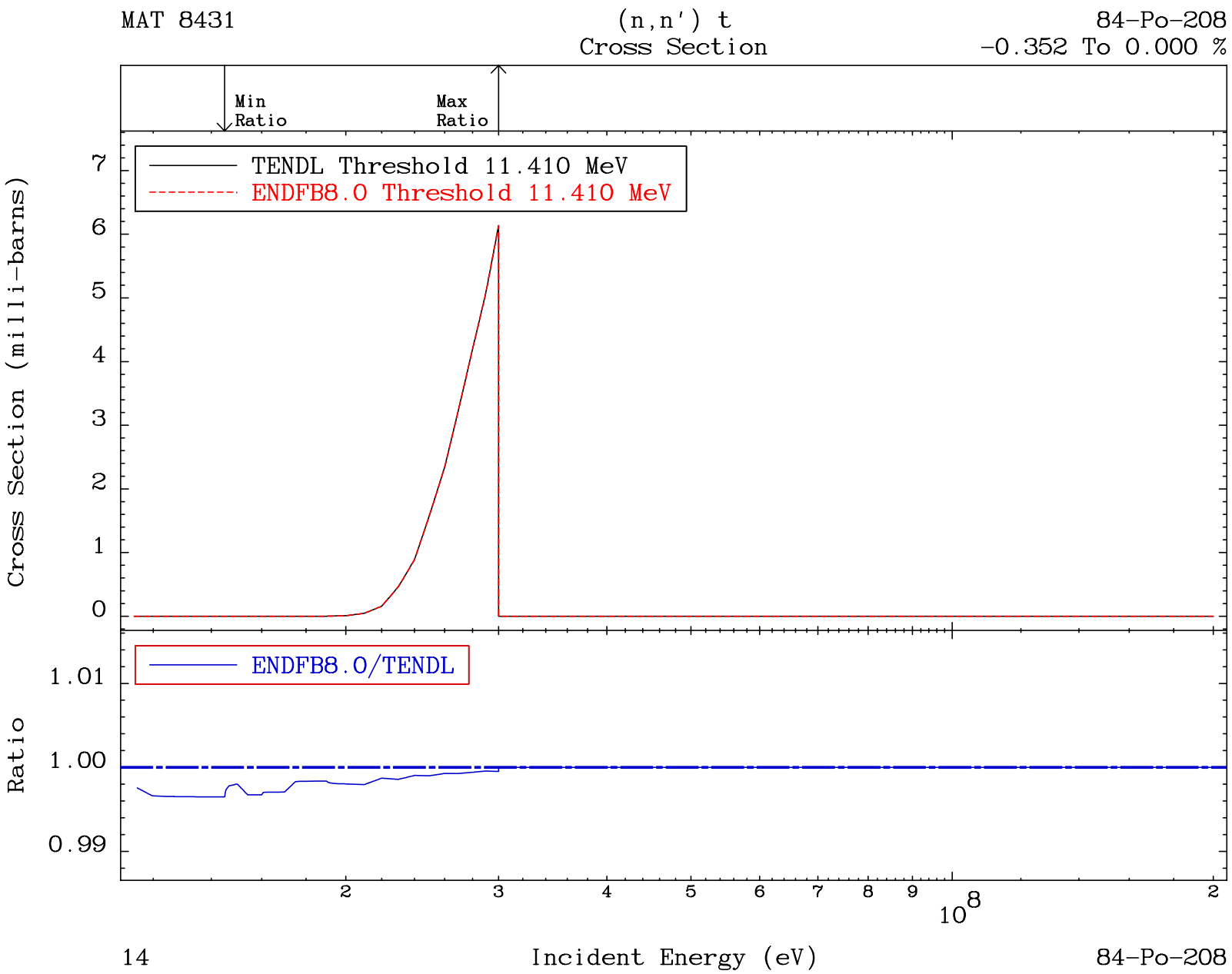

MAT 8431
(n,2n) α
Cross Section
84-Po-208
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.1947 MeV
ENDFB8.0 Threshold 3.1947 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
10^8
10^4
10^0
10^-4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
84-Po-208

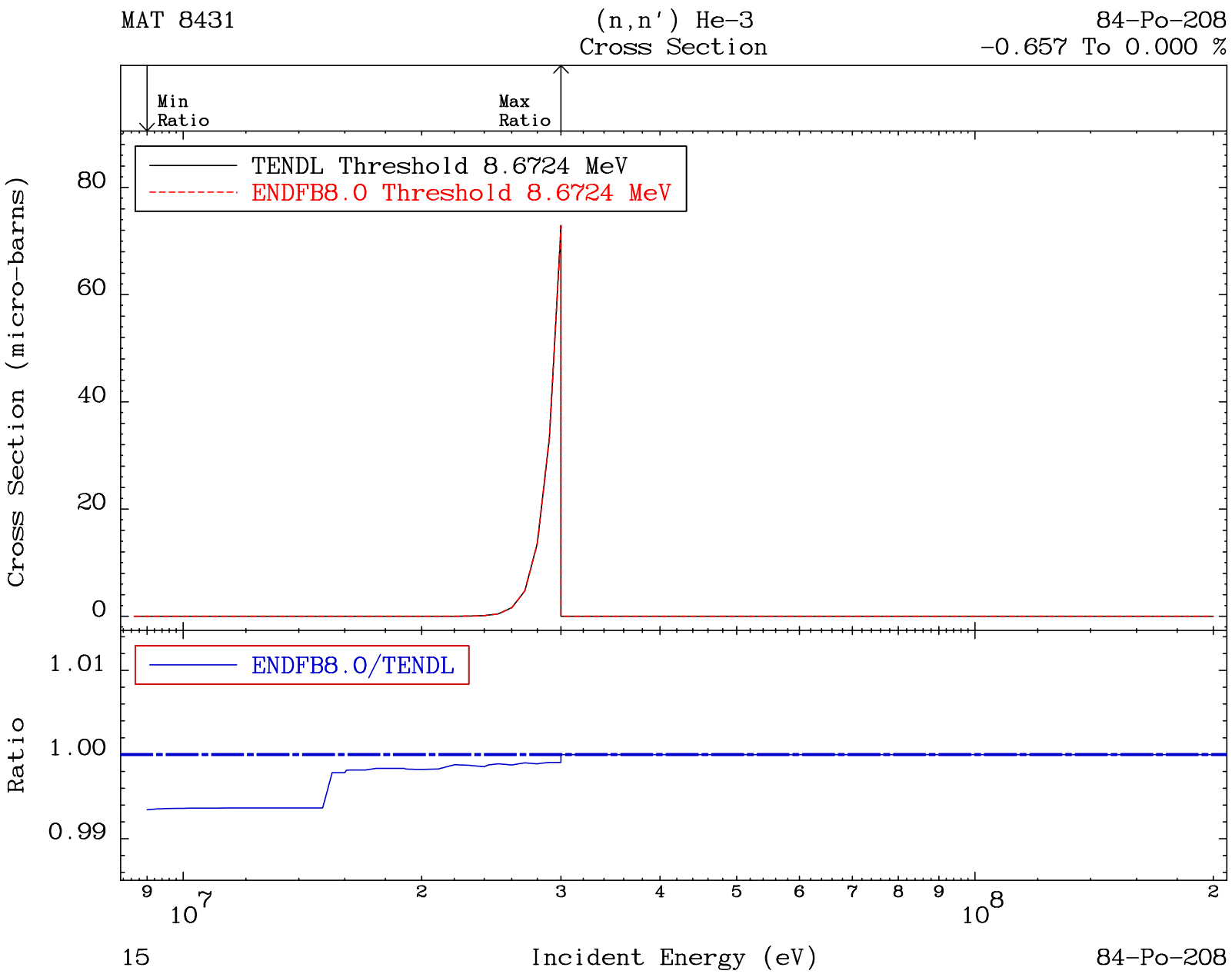

MAT 8431
(n,3n) α
Cross Section
84-Po-208
-99.96 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.146 MeV
ENDFB8.0 Threshold 10.146 MeV
Cross Section (milli-barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
84-Po-208

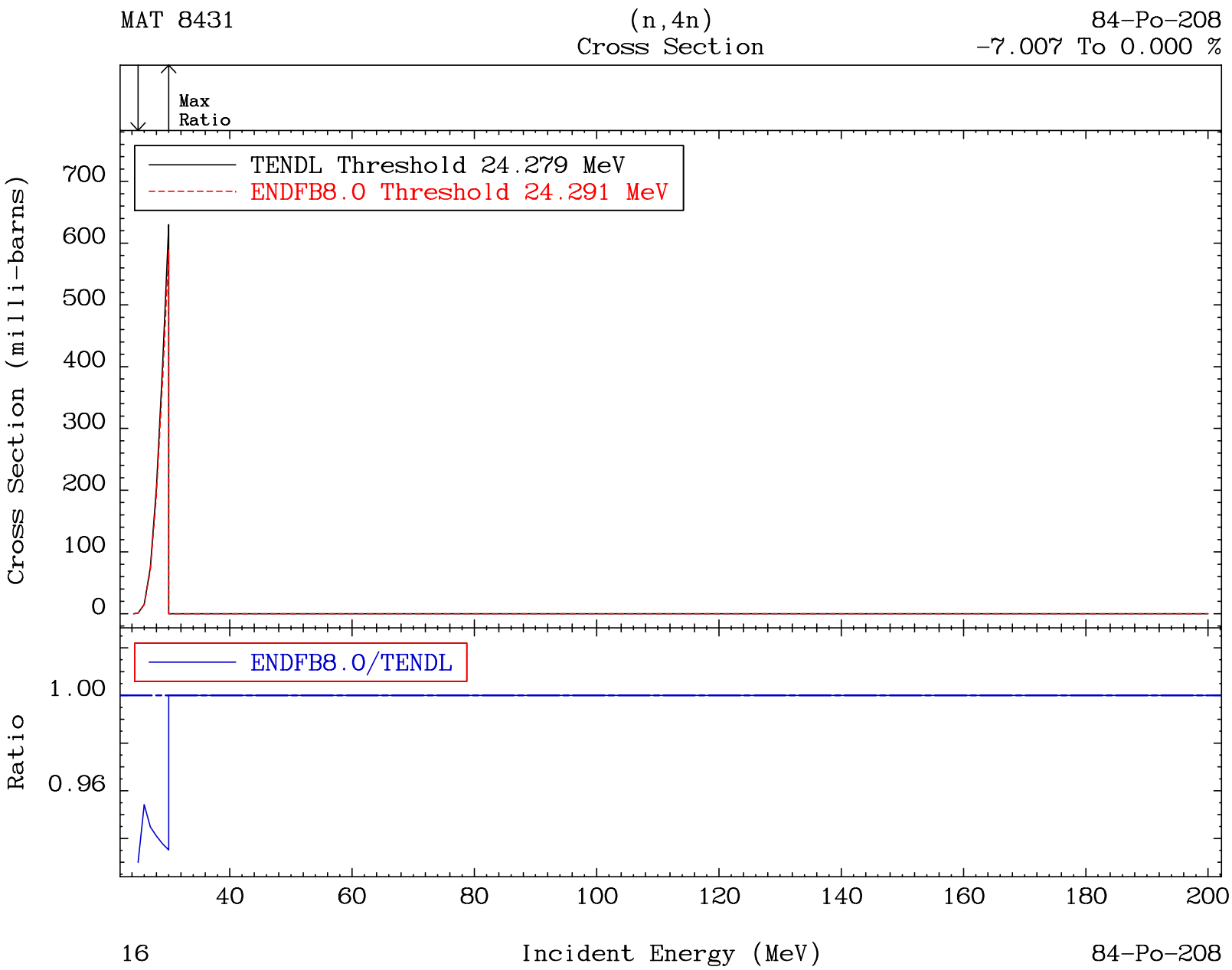

MAT 8431
(n,n') p
Cross Section
84-Po-208
-8.367 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 4.7268 MeV
ENDFB8.0 Threshold 4.7268 MeV
Cross Section (milli-barns)
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.00
0.96
0.92
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
84-Po-208

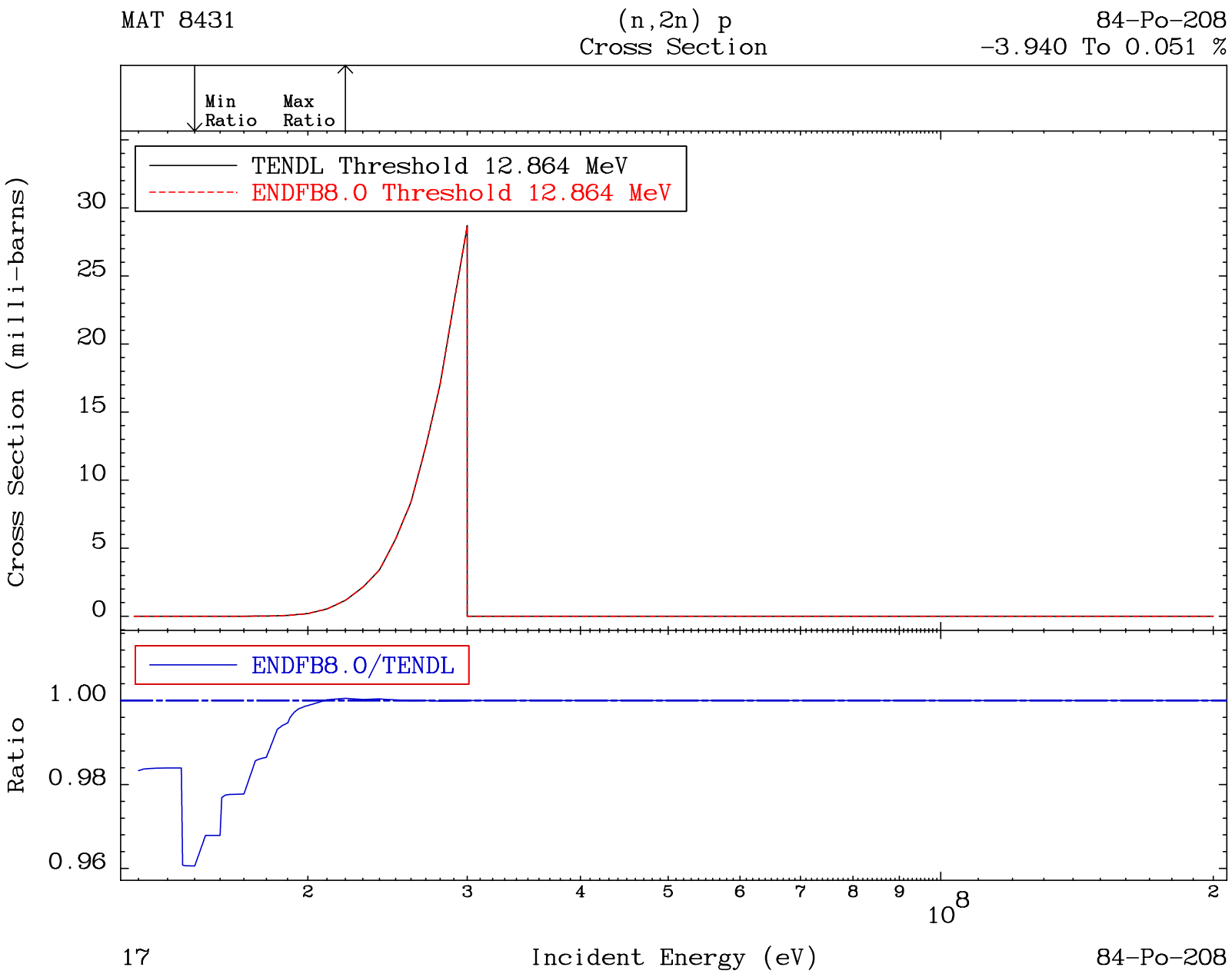

MAT 8431
(n,n') 2α
Cross Section
84-Po-208
0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8097 keV
ENDFB8.0 Threshold 5.7099 keV
Cross Section (10^-9 barns)
60
40
20
0
ENDFB8.0/TENDL
Ratio
10^6
10^3
10^0
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
12
Incident Energy (eV)
84-Po-208

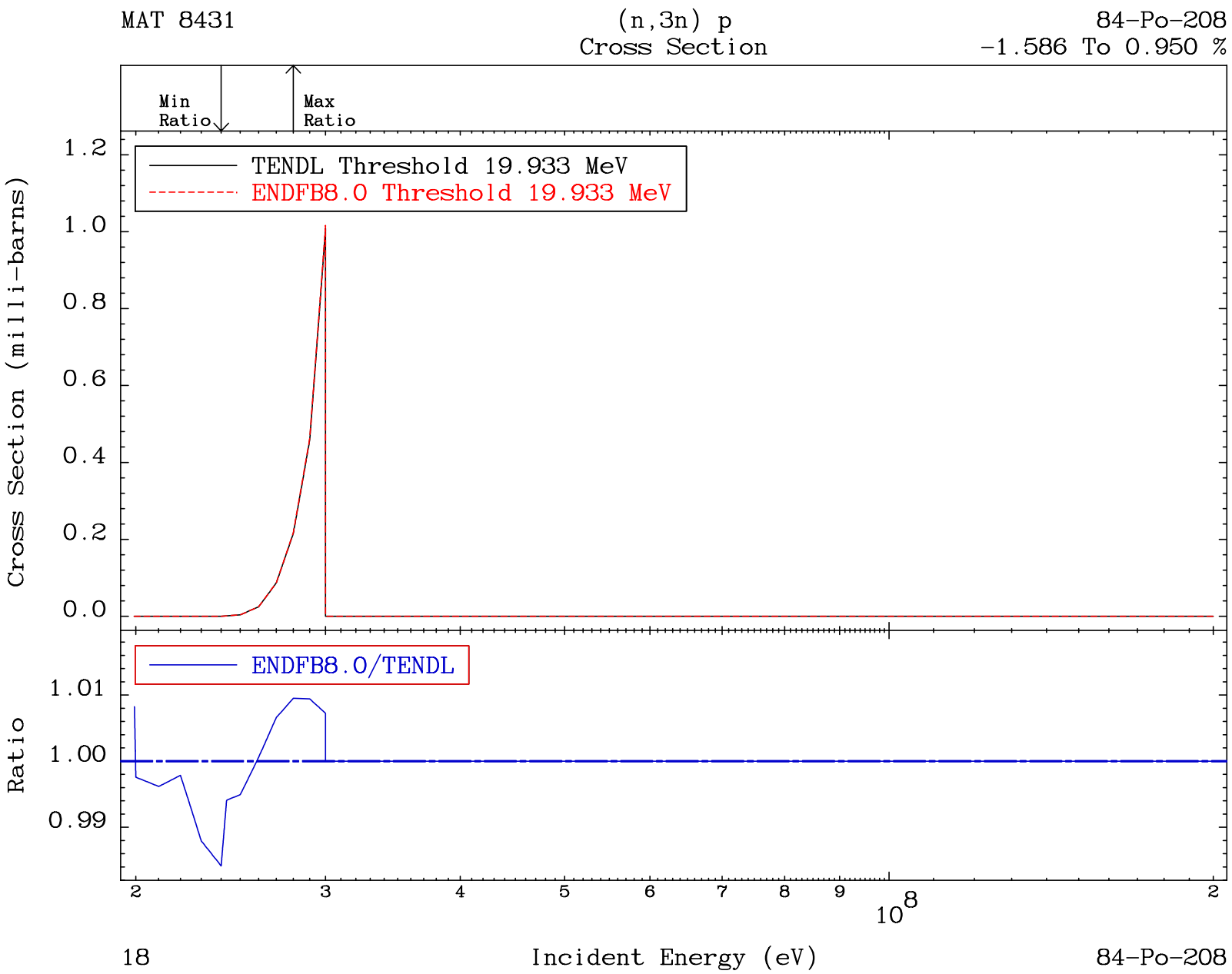

MAT 8431
(n,n') d
Cross Section
84-Po-208
-0.450 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 10.628 MeV
ENDFB8.0 Threshold 10.628 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
84-Po-208

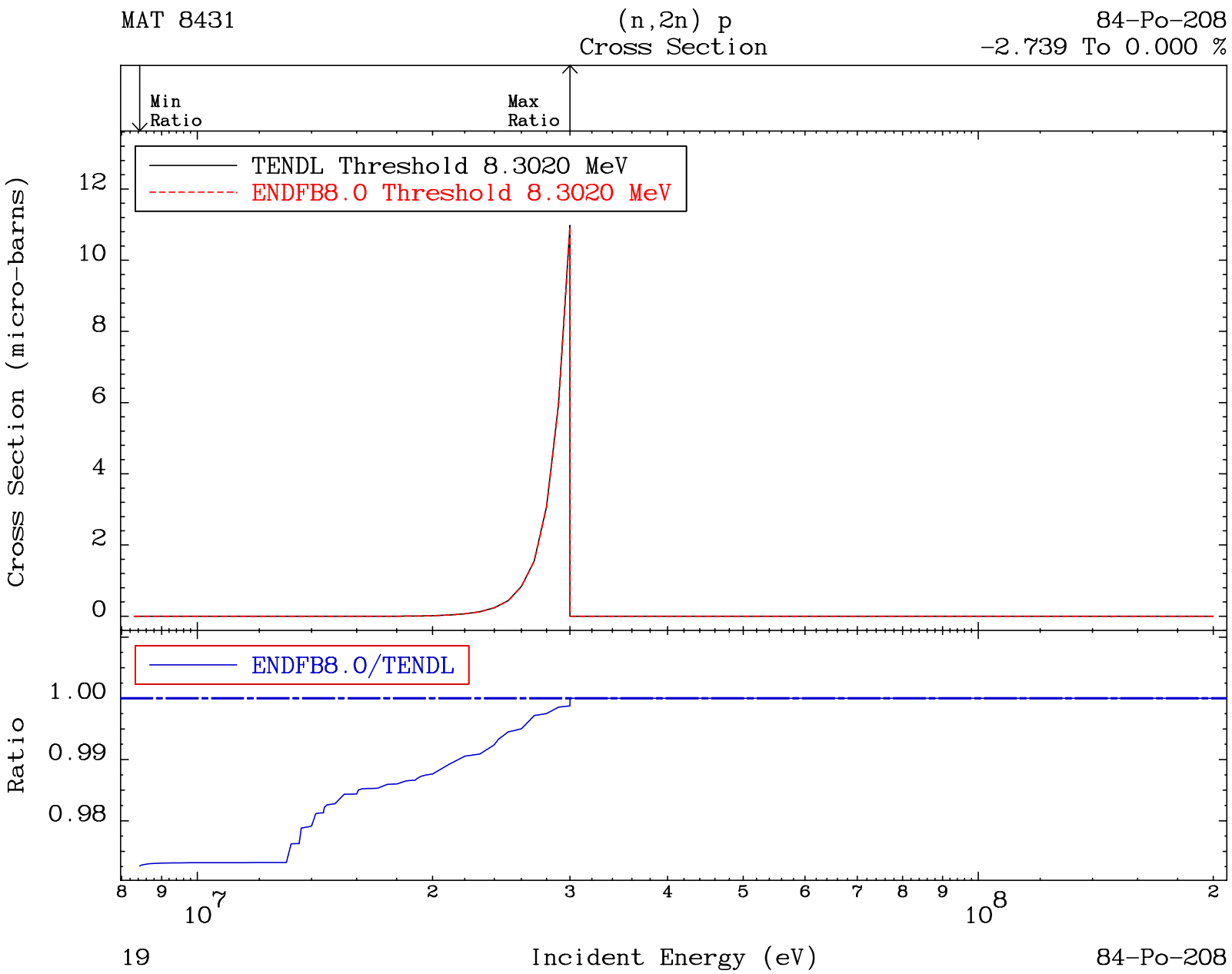

MAT 8431
(n,n') t
Cross Section
84-Po-208
-0.352 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 11.410 MeV
ENDFB8.0 Threshold 11.410 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
ENDFB8.0/TENDL
Ratio
0.99
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
84-Po-208

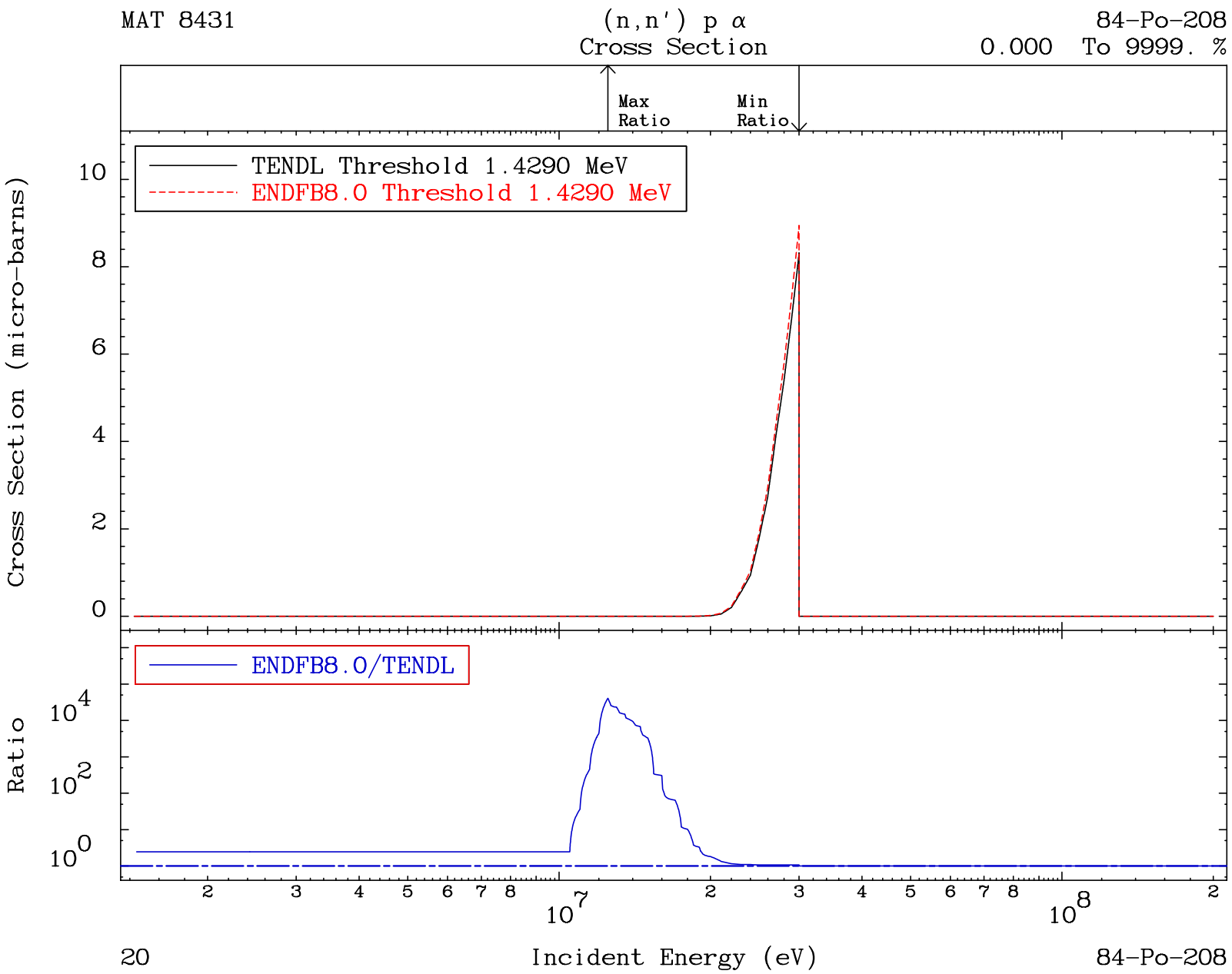

MAT 8431
(n,n') He-3
Cross Section
84-Po-208
-0.657 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 8.6724 MeV
ENDFB8.0 Threshold 8.6724 MeV
Cross Section (micro-barns)
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
84-Po-208

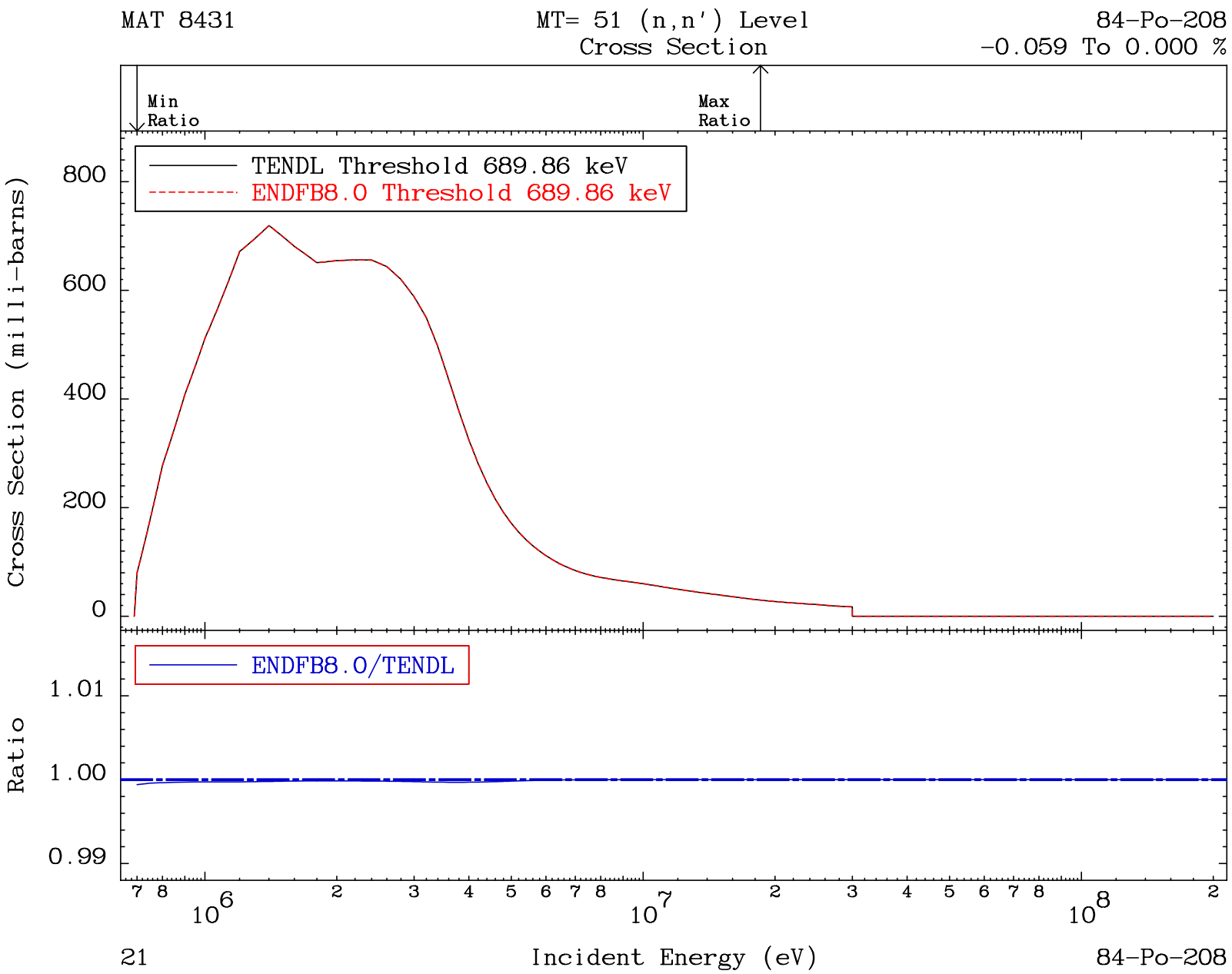

MAT 8431
(n,4n)
Cross Section
84-Po-208
-7.007 To 0.000 %
Max
Ratio
TENDL Threshold 24.279 MeV
ENDFB8.0 Threshold 24.291 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
ENDFB8.0/TENDL
Ratio
1.00
0.96
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
84-Po-208

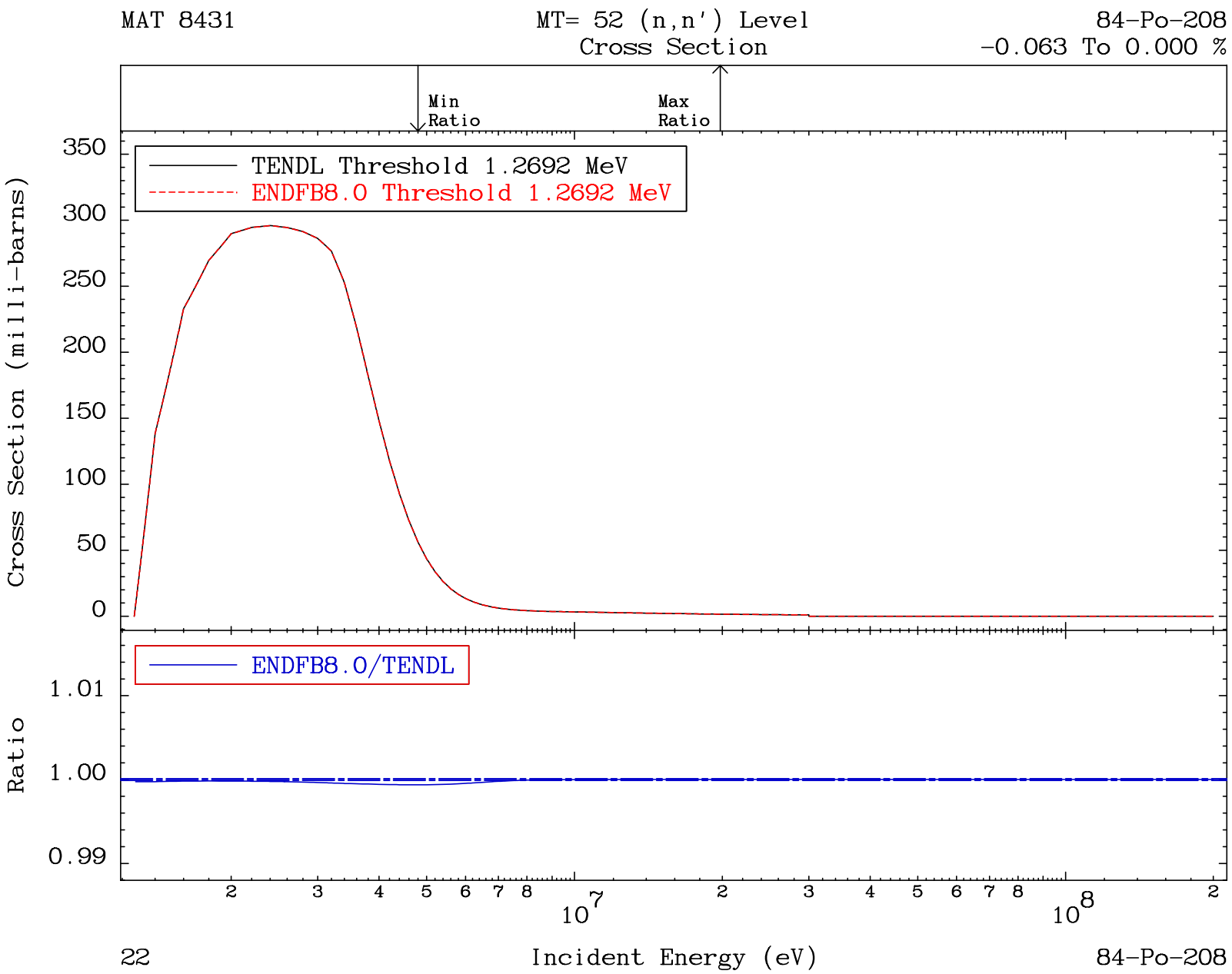

MAT 8431
(n,2n) p
Cross Section
84-Po-208
-3.940 To 0.051 %
Min Ratio
Max Ratio
TENDL Threshold 12.864 MeV
ENDFB8.0 Threshold 12.864 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
1.00
0.98
0.96
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
84-Po-208

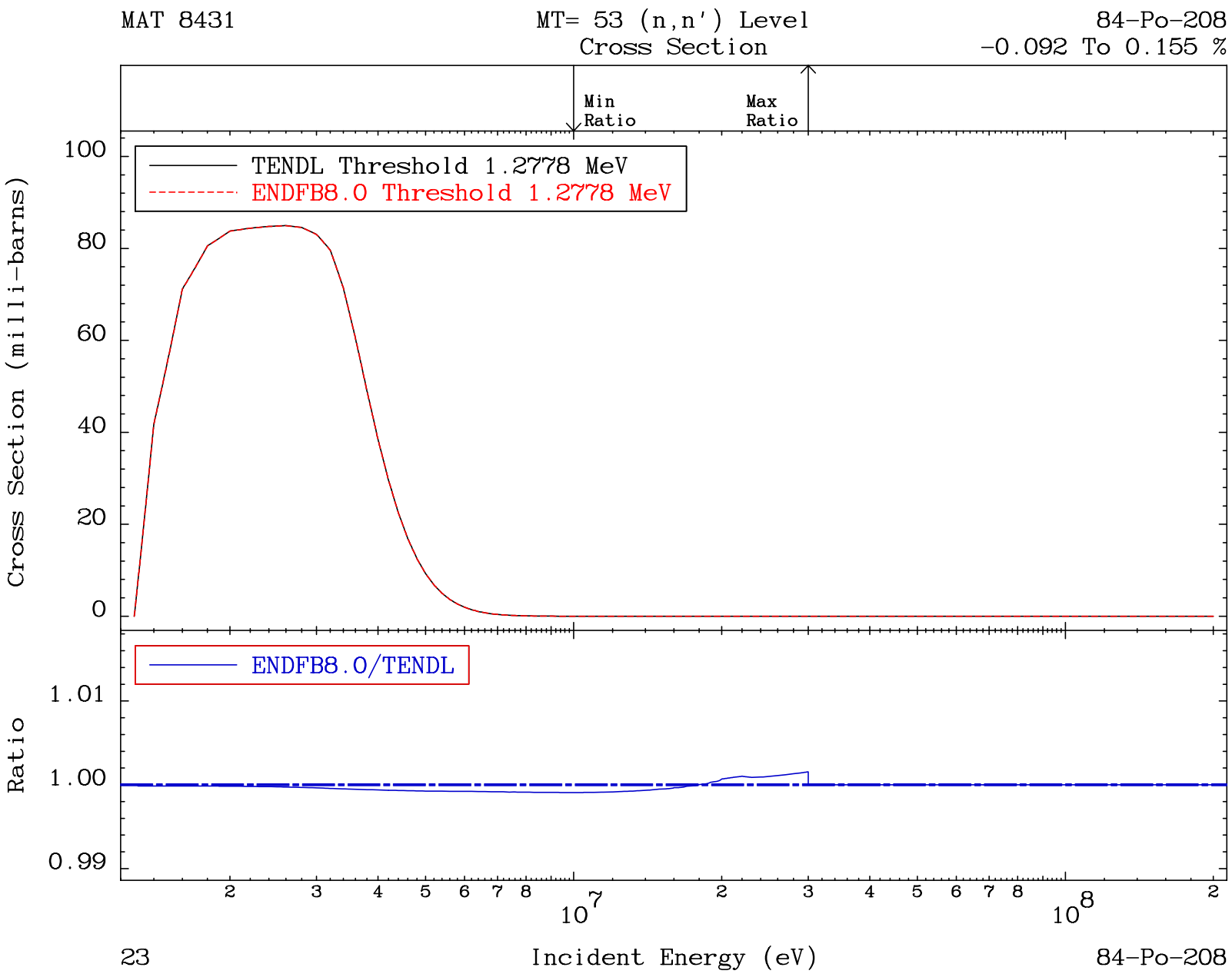

MAT 8431
(n,3n) p
Cross Section
84-Po-208
-1.586 To 0.950 %
Min Ratio
Max Ratio
TENDL Threshold 19.933 MeV
ENDFB8.0 Threshold 19.933 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
84-Po-208

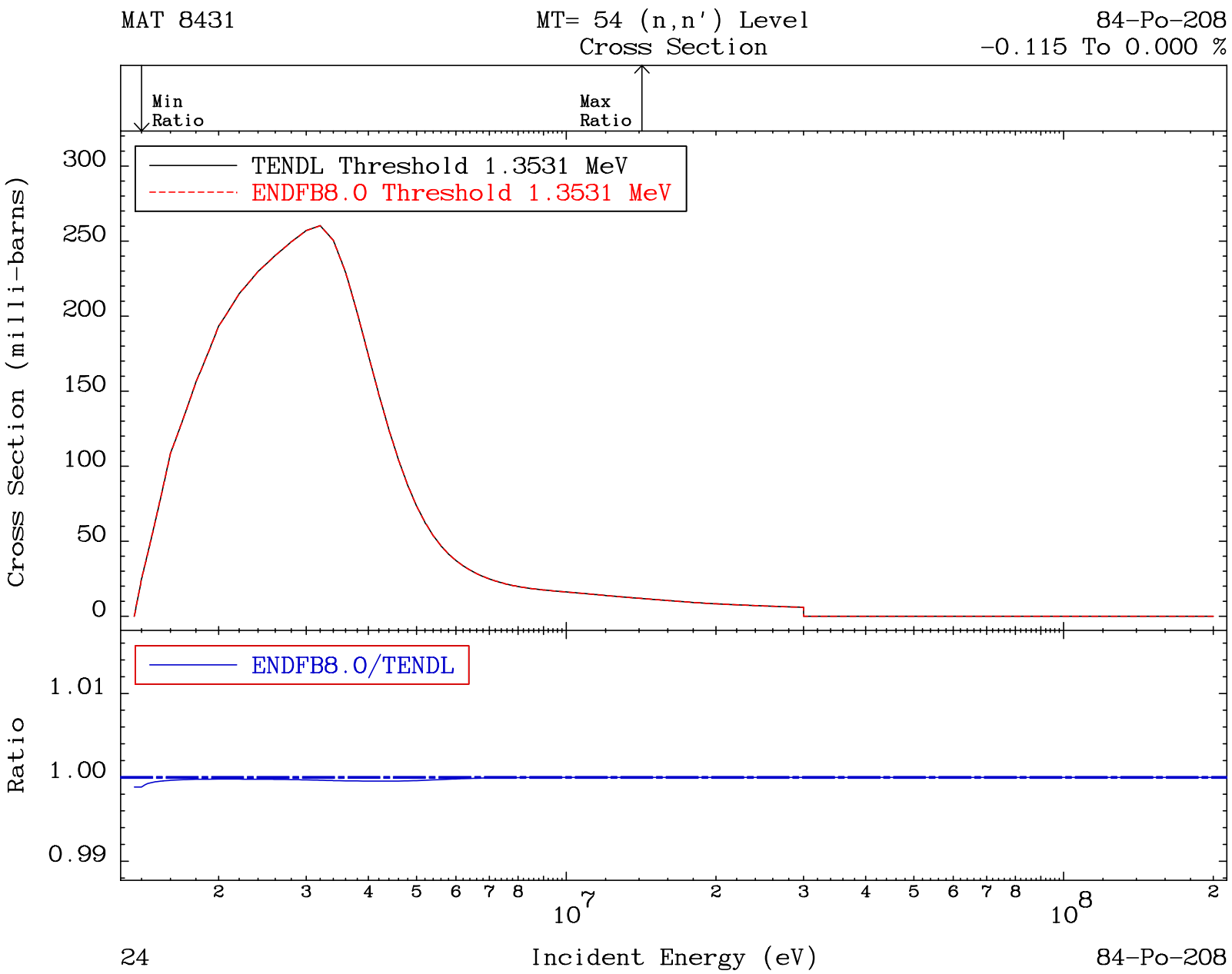

MAT 8431
(n,2n) p
Cross Section
84-Po-208
-2.739 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 8.3020 MeV
ENDFB8.0 Threshold 8.3020 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
12
ENDFB8.0/TENDL
Ratio
0.98
0.99
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
84-Po-208

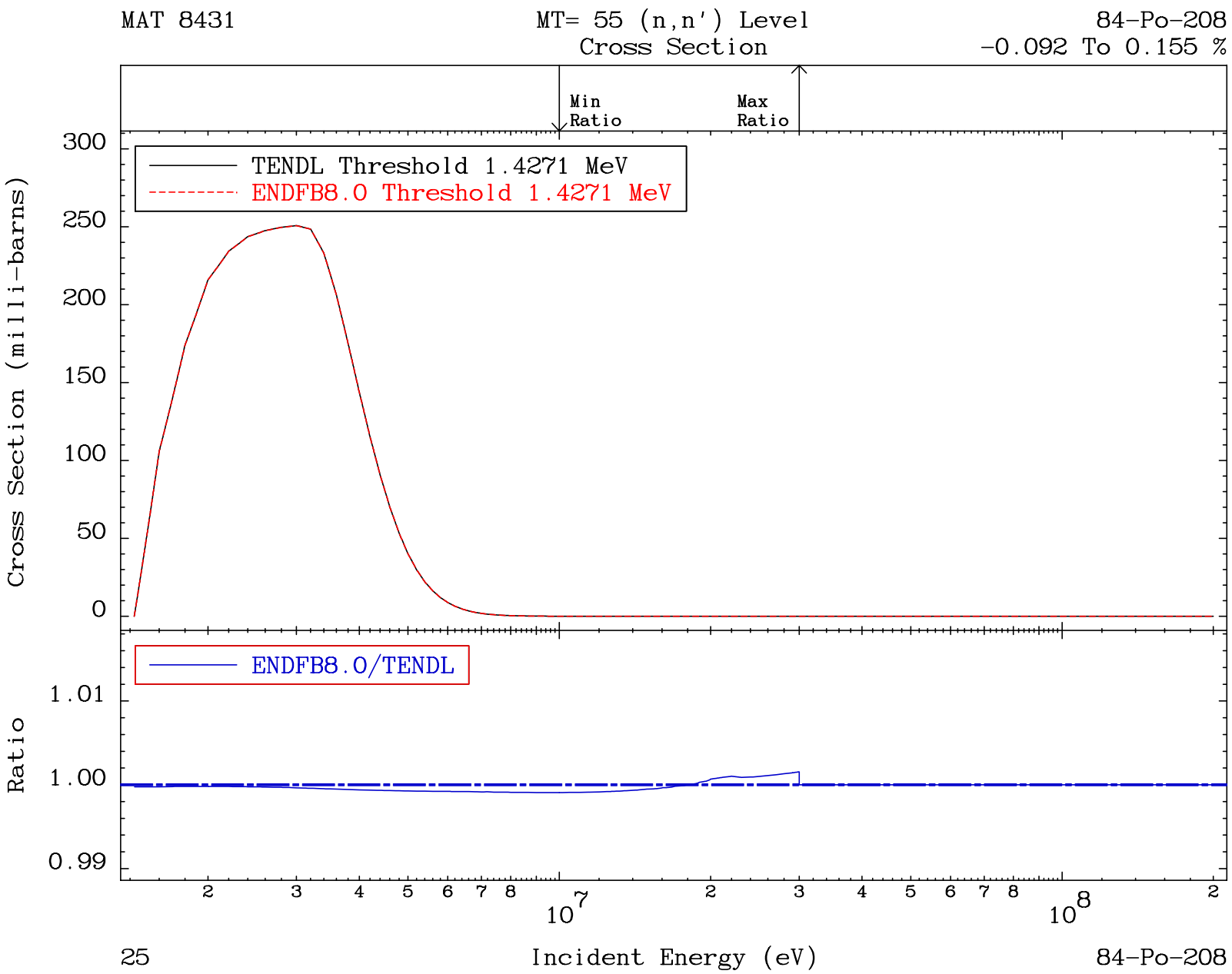

MAT 8431
(n,n') p α
Cross Section
84-Po-208
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4290 MeV
ENDFB8.0 Threshold 1.4290 MeV
Cross Section (micro-barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
20
84-Po-208

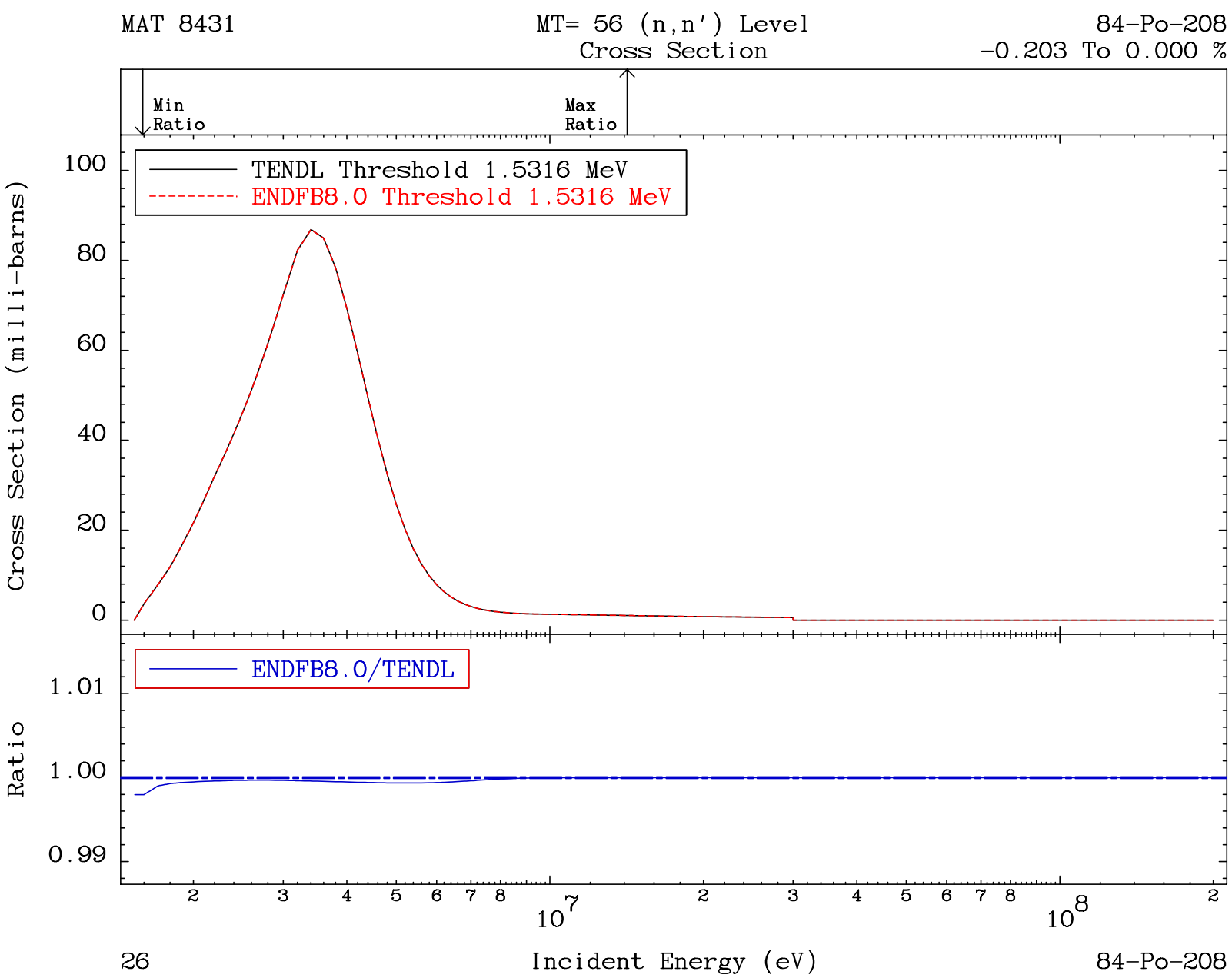

MAT 8431
MT= 51 (n,n') Level
Cross Section
84-Po-208
-0.059 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 689.86 keV
ENDFB8.0 Threshold 689.86 keV
Cross Section (milli-barns)
800
600
400
200
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
84-Po-208

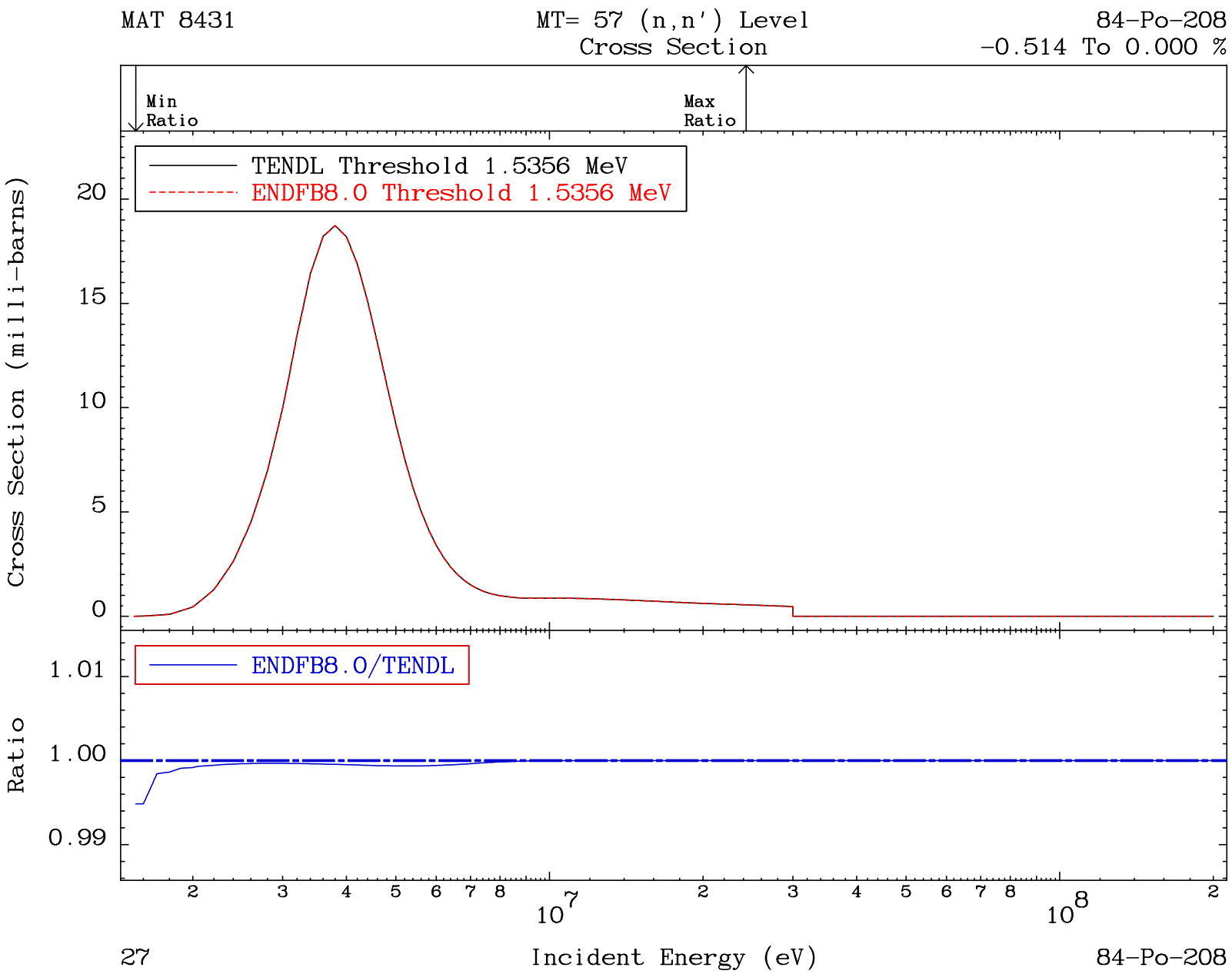

MAT 8431
MT= 52 (n,n') Level
Cross Section
84-Po-208
-0.063 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2692 MeV
ENDFB8.0 Threshold 1.2692 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
84-Po-208

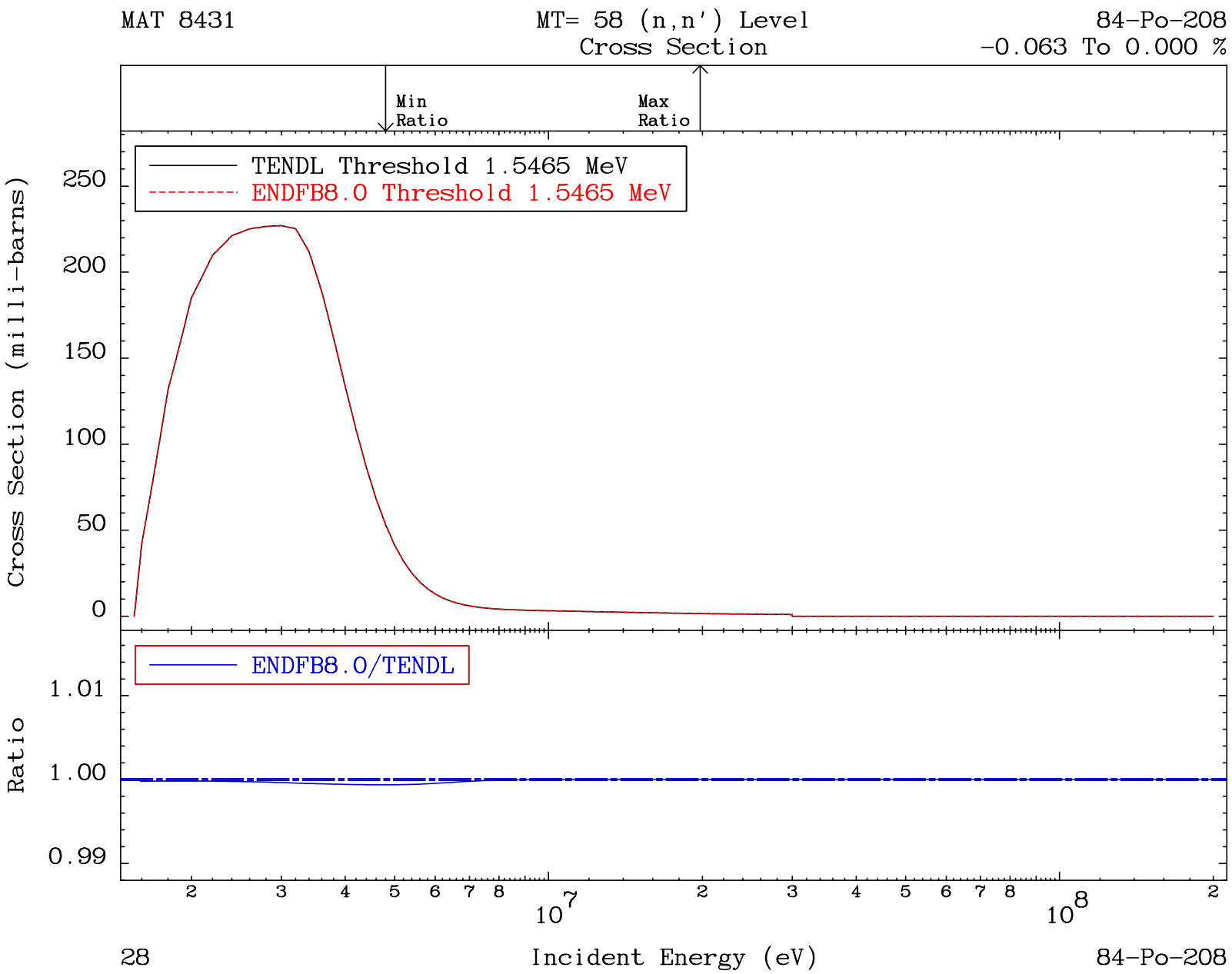

MAT 8431
MT= 53 (n,n') Level
Cross Section
84-Po-208
-0.092 To 0.155 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2778 MeV
ENDFB8.0 Threshold 1.2778 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
84-Po-208

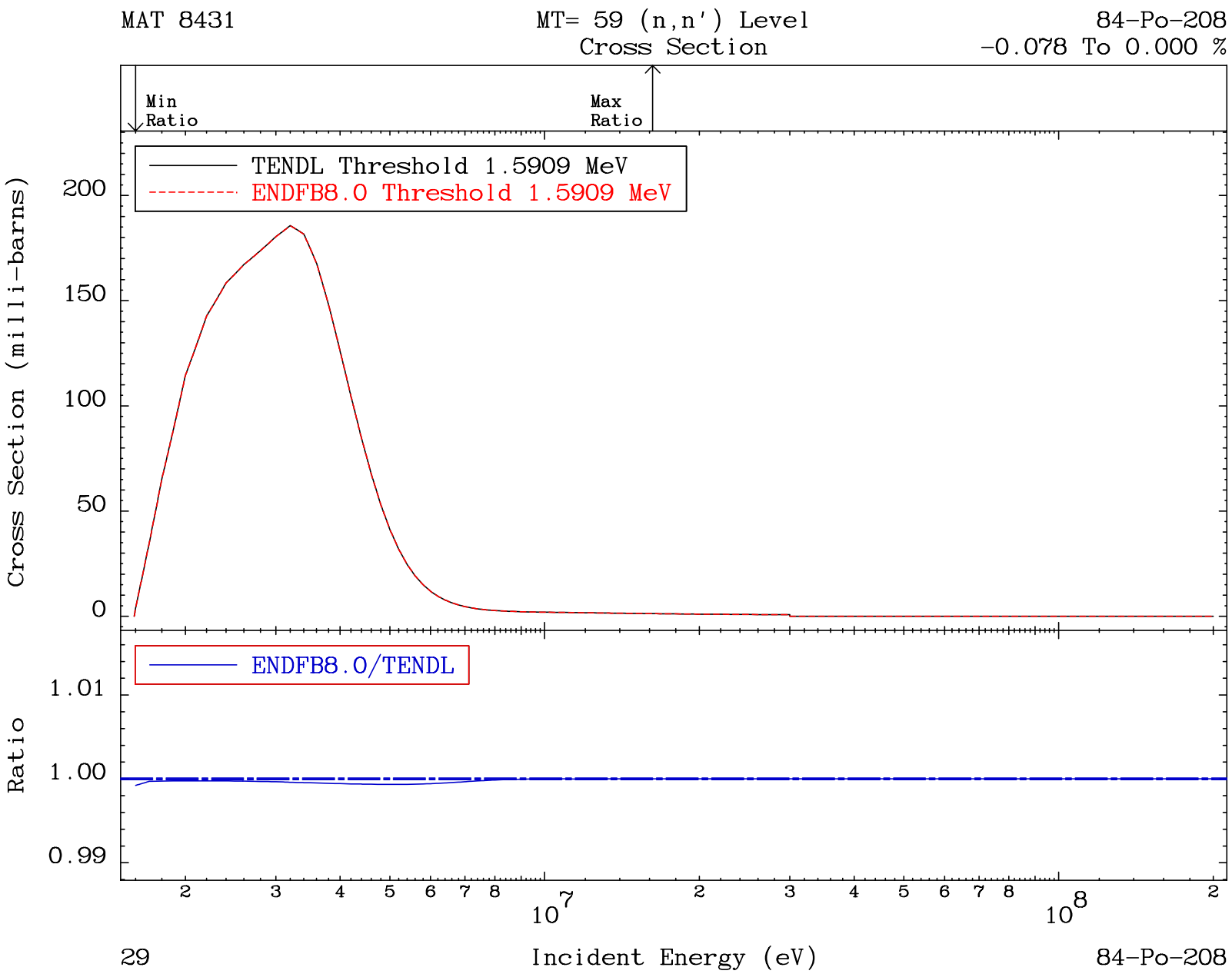

MAT 8431
MT= 54 (n,n') Level
Cross Section
84-Po-208
-0.115 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.3531 MeV
ENDFB8.0 Threshold 1.3531 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
24
Incident Energy (eV)
84-Po-208

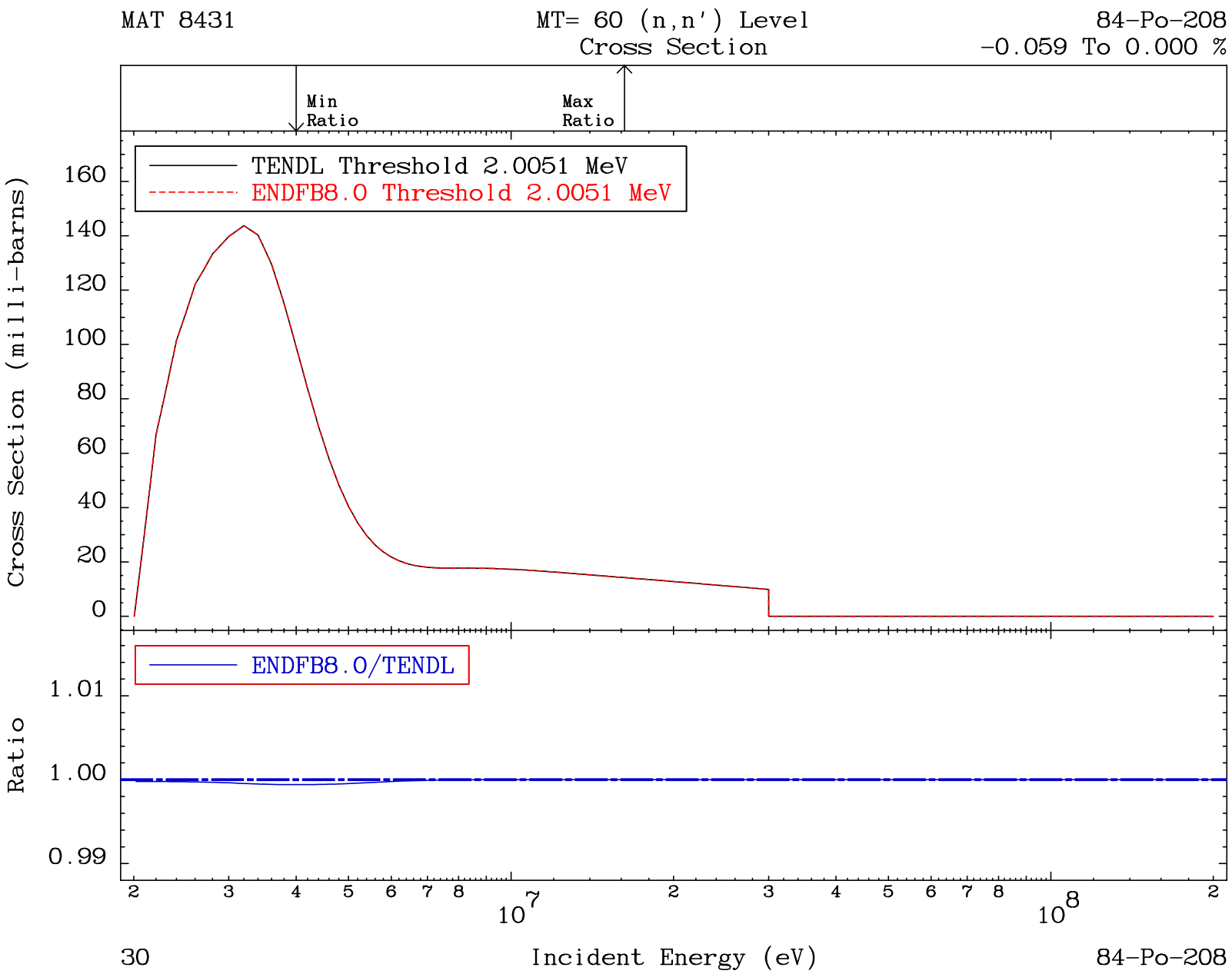

MAT 8431
MT= 55 (n,n') Level
Cross Section
84-Po-208
-0.092 To 0.155 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.4271 MeV
ENDFB8.0 Threshold 1.4271 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
25
Incident Energy (eV)
84-Po-208

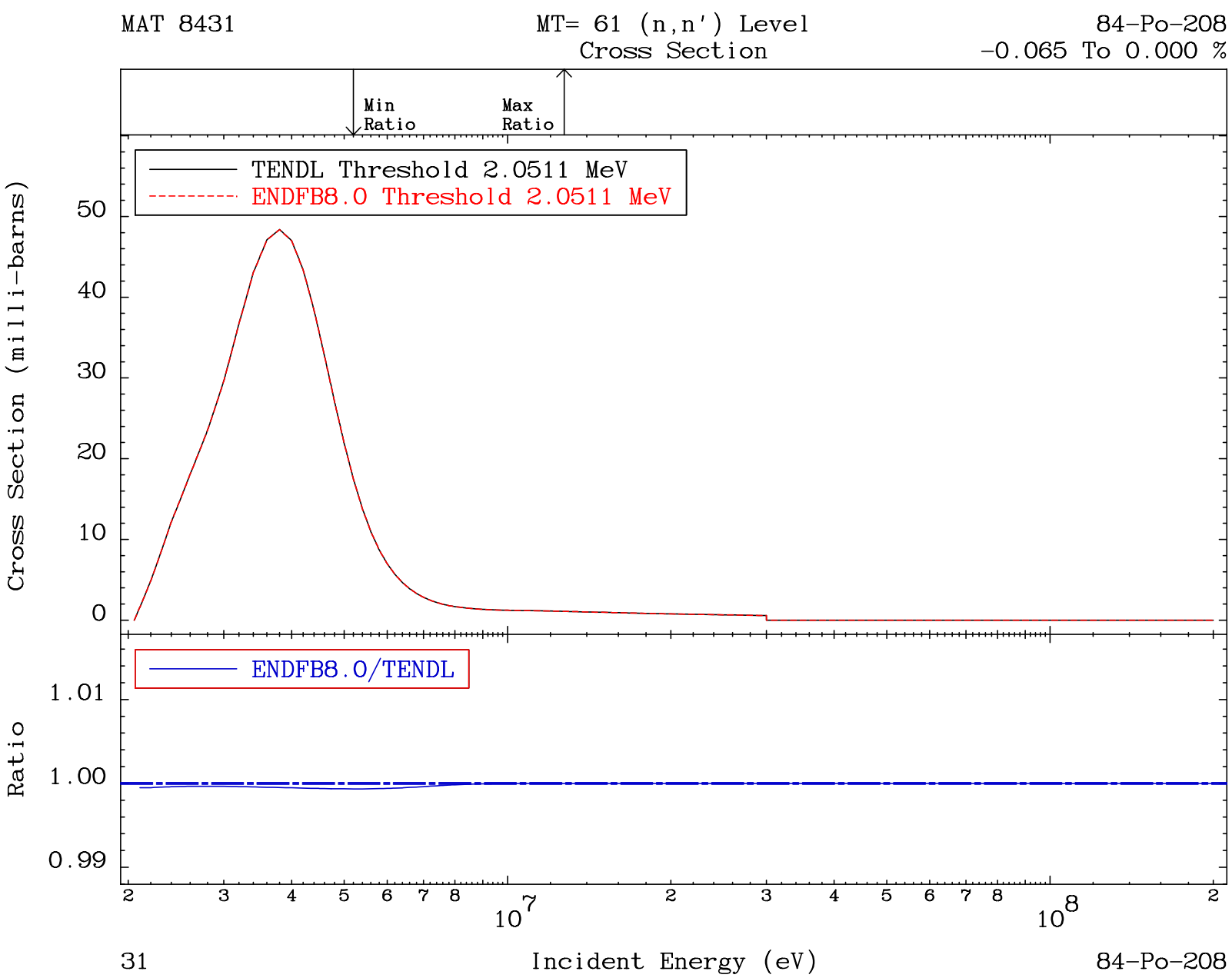

MAT 8431
MT= 56 (n,n') Level
Cross Section
84-Po-208
-0.203 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.5316 MeV
ENDFB8.0 Threshold 1.5316 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
26
Incident Energy (eV)
84-Po-208

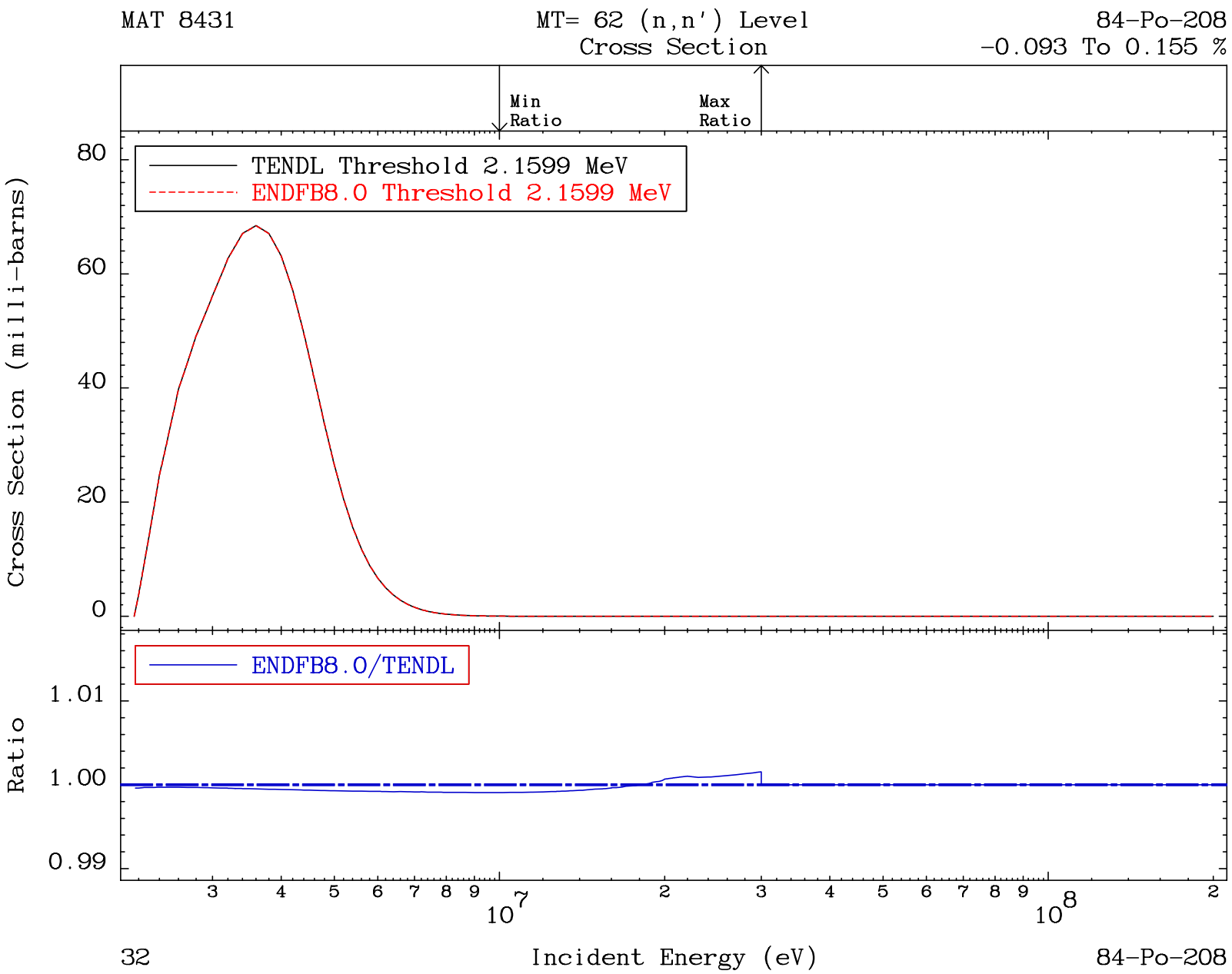

MAT 8431
MT= 57 (n,n') Level
Cross Section
84-Po-208
-0.514 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.5356 MeV
ENDFB8.0 Threshold 1.5356 MeV
Cross Section (milli-barns)
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
27
Incident Energy (eV)
84-Po-208

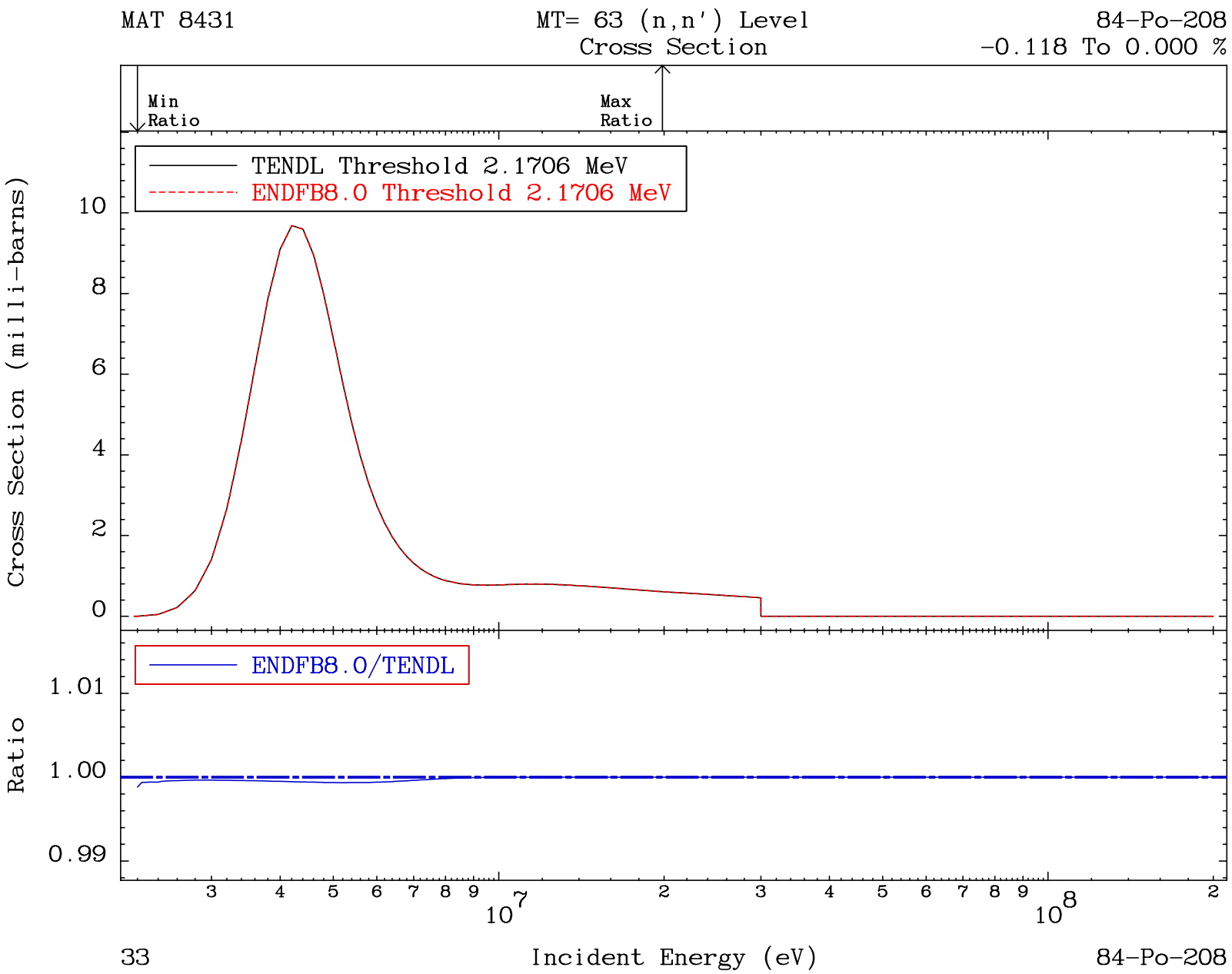

MAT 8431
MT= 58 (n,n') Level
Cross Section
84-Po-208
-0.063 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.5465 MeV
ENDFB8.0 Threshold 1.5465 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
28
Incident Energy (eV)
84-Po-208

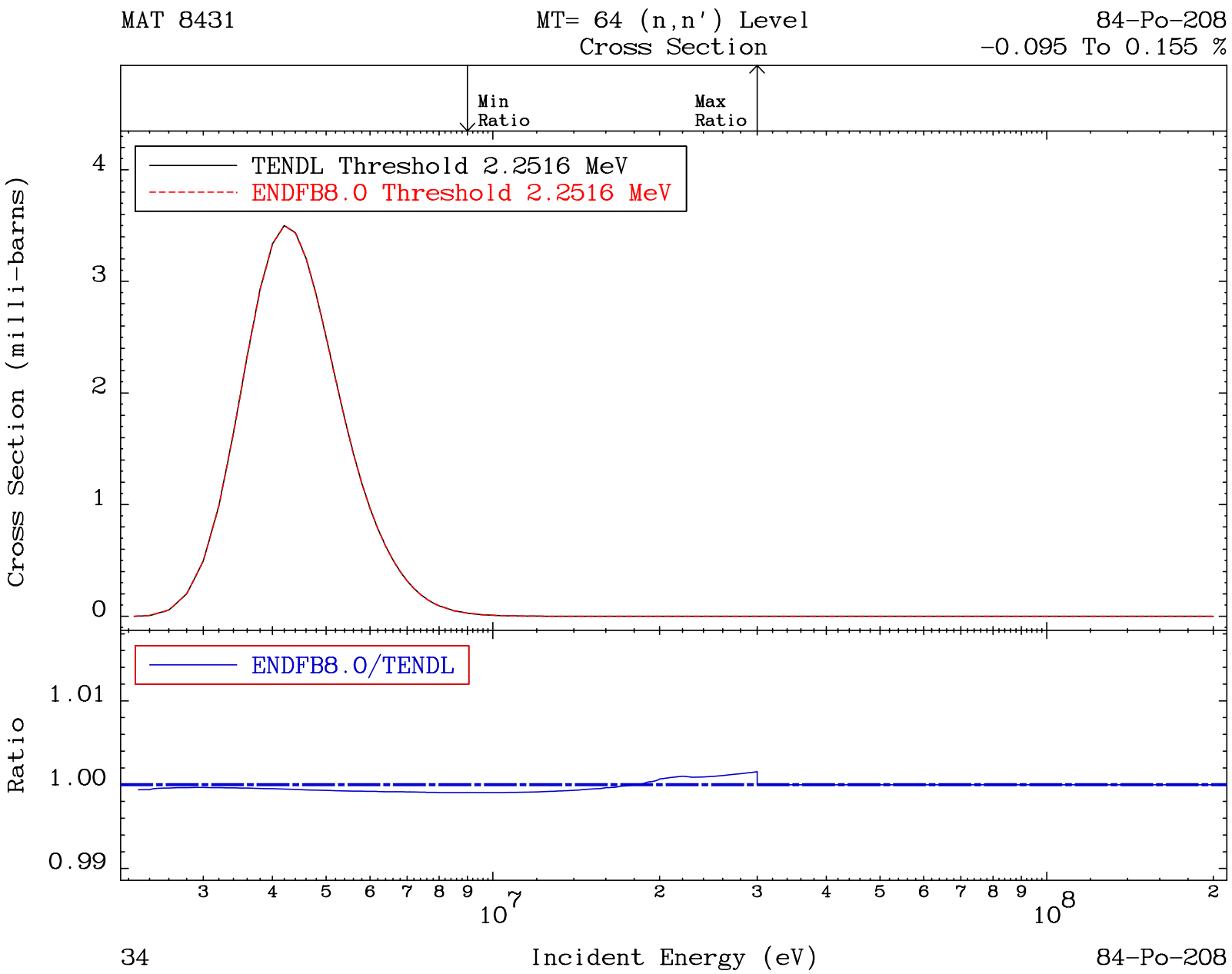

MAT 8431
MT= 59 (n,n') Level
Cross Section
84-Po-208
-0.078 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.5909 MeV
ENDFB8.0 Threshold 1.5909 MeV
Cross Section (milli-barns)
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
29
Incident Energy (eV)
84-Po-208

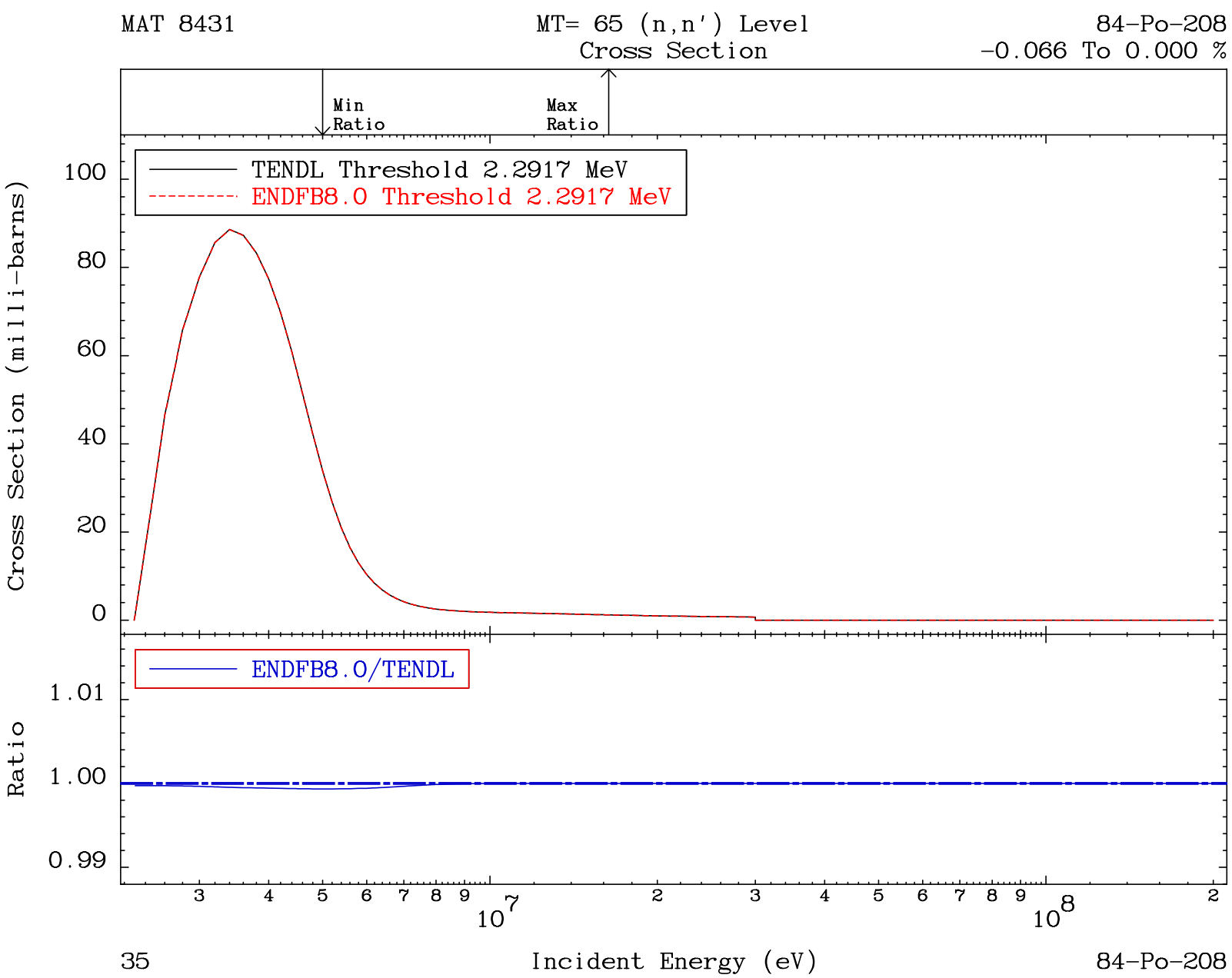

MAT 8431
MT= 60 (n,n') Level
Cross Section
84-Po-208
-0.059 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.0051 MeV
ENDFB8.0 Threshold 2.0051 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
30
Incident Energy (eV)
84-Po-208

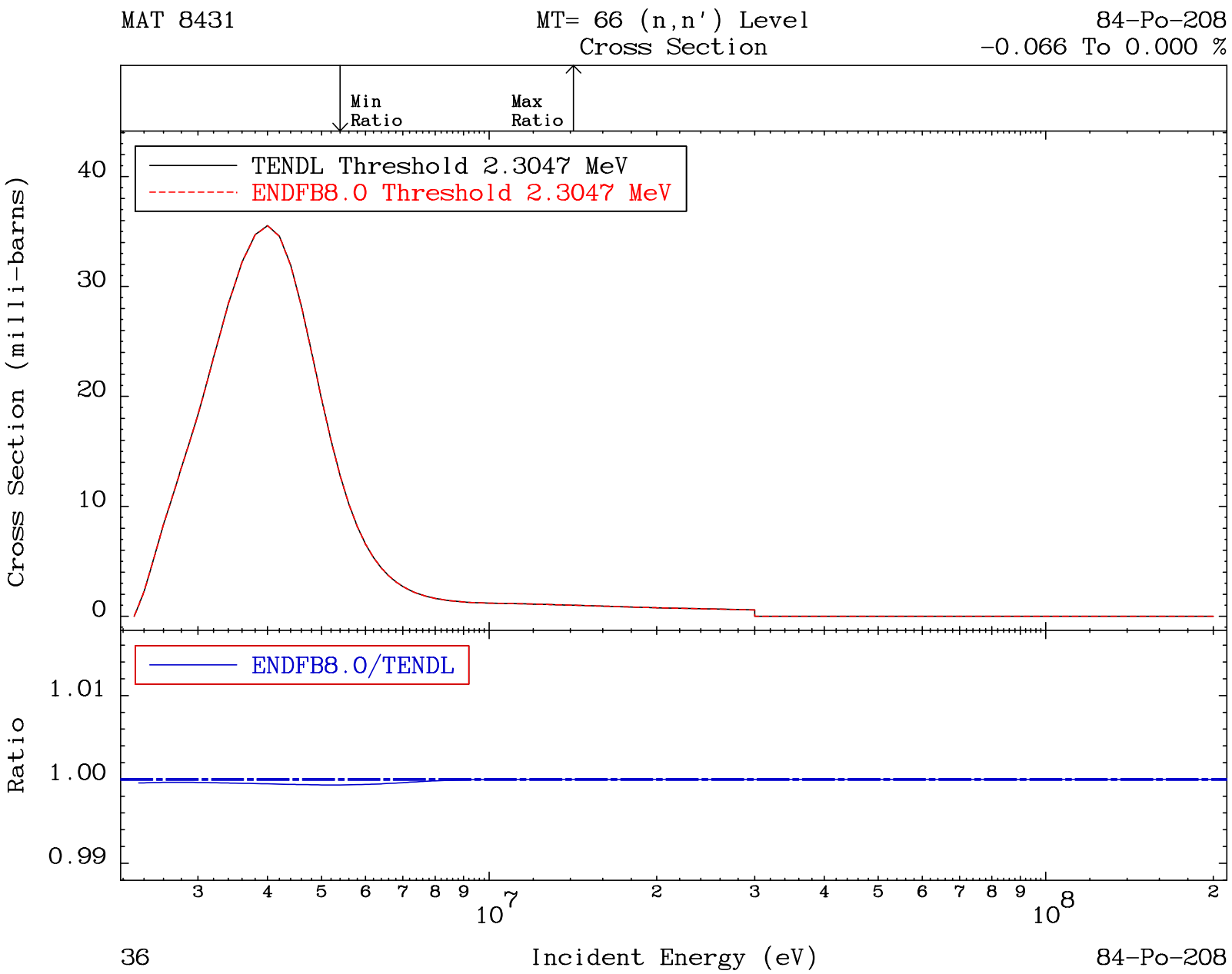

MAT 8431
MT= 61 (n,n') Level
Cross Section
84-Po-208
-0.065 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.0511 MeV
ENDFB8.0 Threshold 2.0511 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
84-Po-208

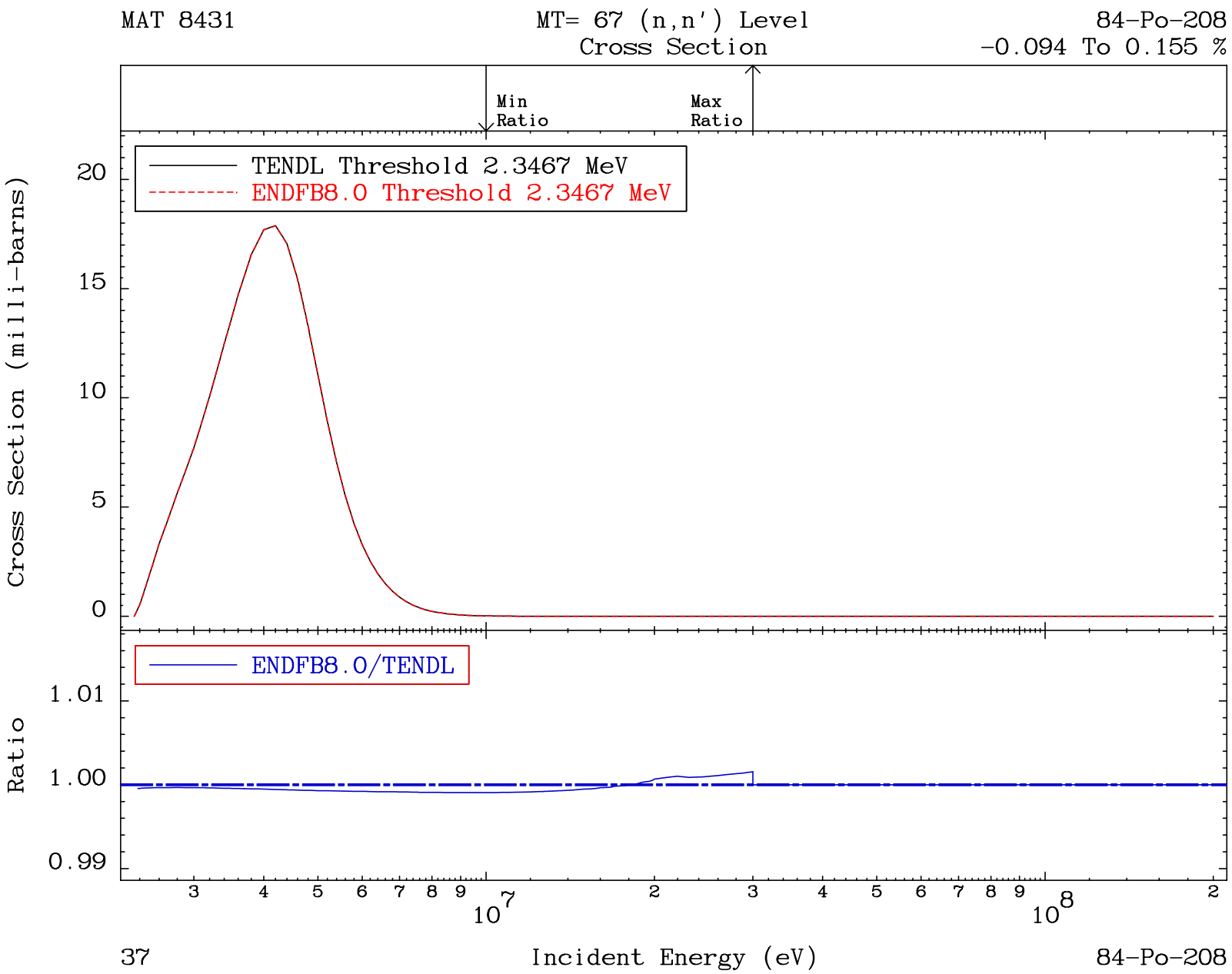

MAT 8431
MT= 62 (n,n') Level
Cross Section
84-Po-208
-0.093 To 0.155 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.1599 MeV
ENDFB8.0 Threshold 2.1599 MeV
Cross Section (milli-barns)
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
32
Incident Energy (eV)
84-Po-208

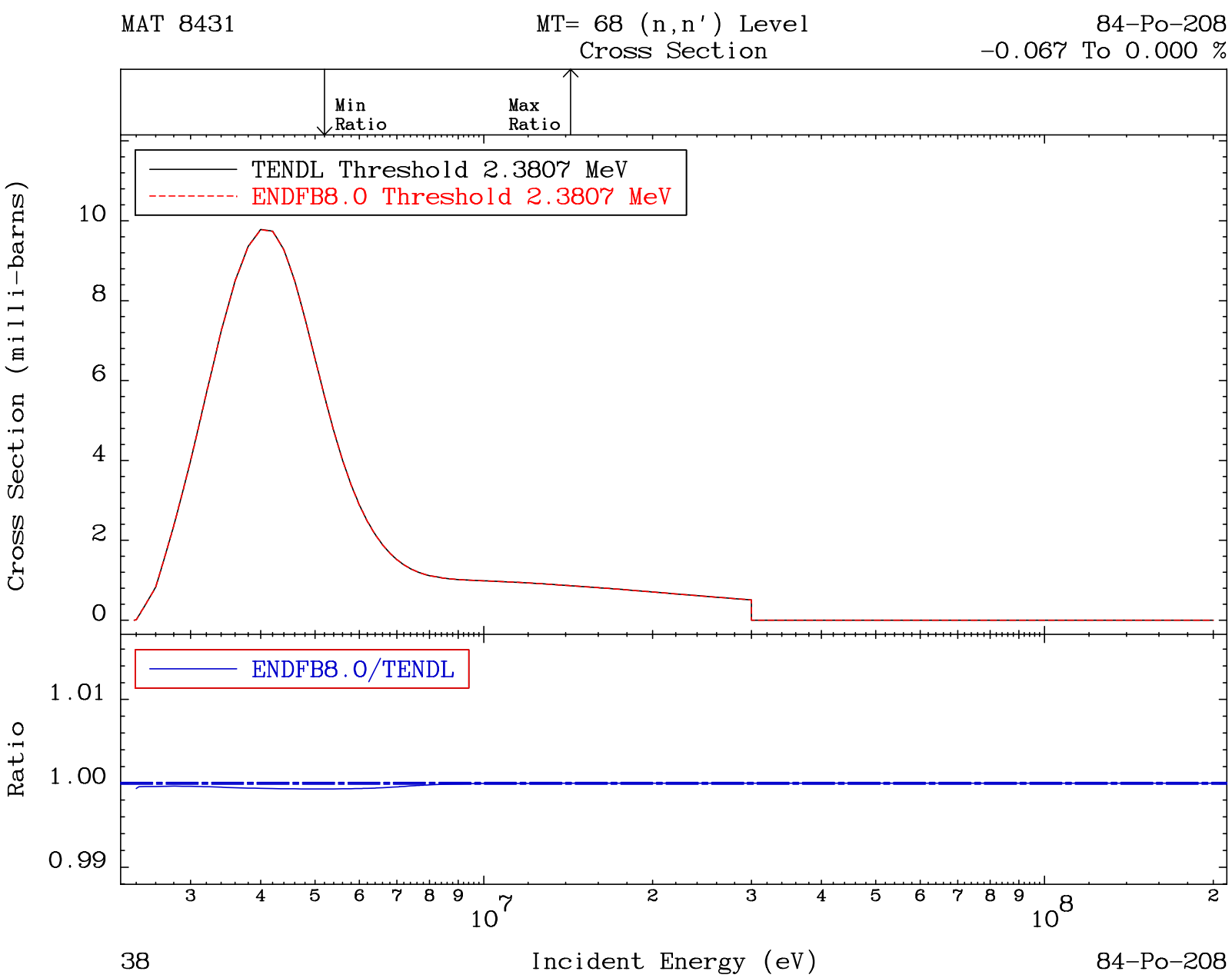

MAT 8431
MT= 63 (n,n') Level
Cross Section
84-Po-208
-0.118 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.1706 MeV
ENDFB8.0 Threshold 2.1706 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
33
Incident Energy (eV)
84-Po-208

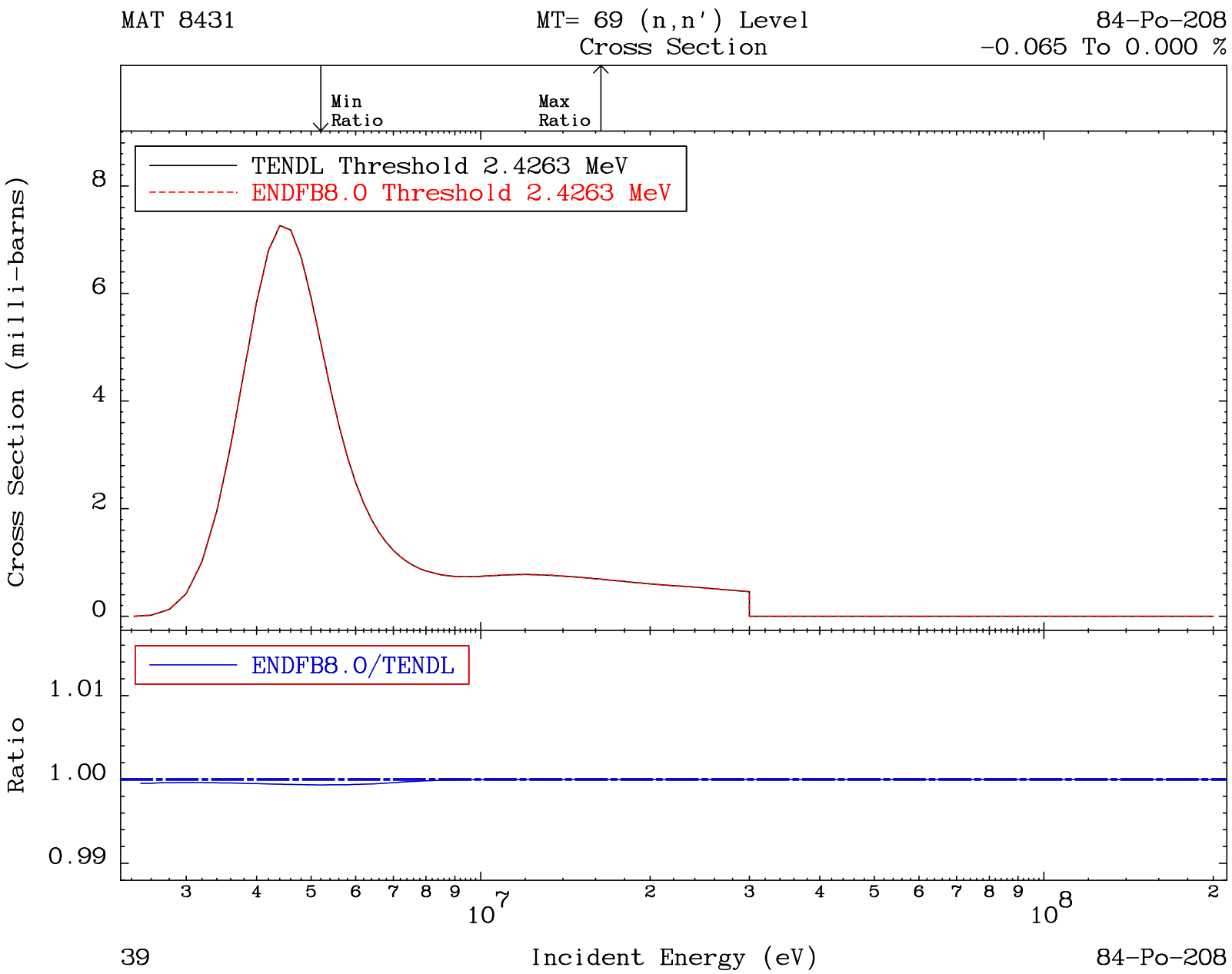

MAT 8431
MT= 64 (n,n') Level
Cross Section
84-Po-208
-0.095 To 0.155 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.2516 MeV
ENDFB8.0 Threshold 2.2516 MeV
Cross Section (milli-barns)
0
1
2
3
4
ENDFB8.0/TENDL
Ratio
0.99
1.00
1.01
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
84-Po-208

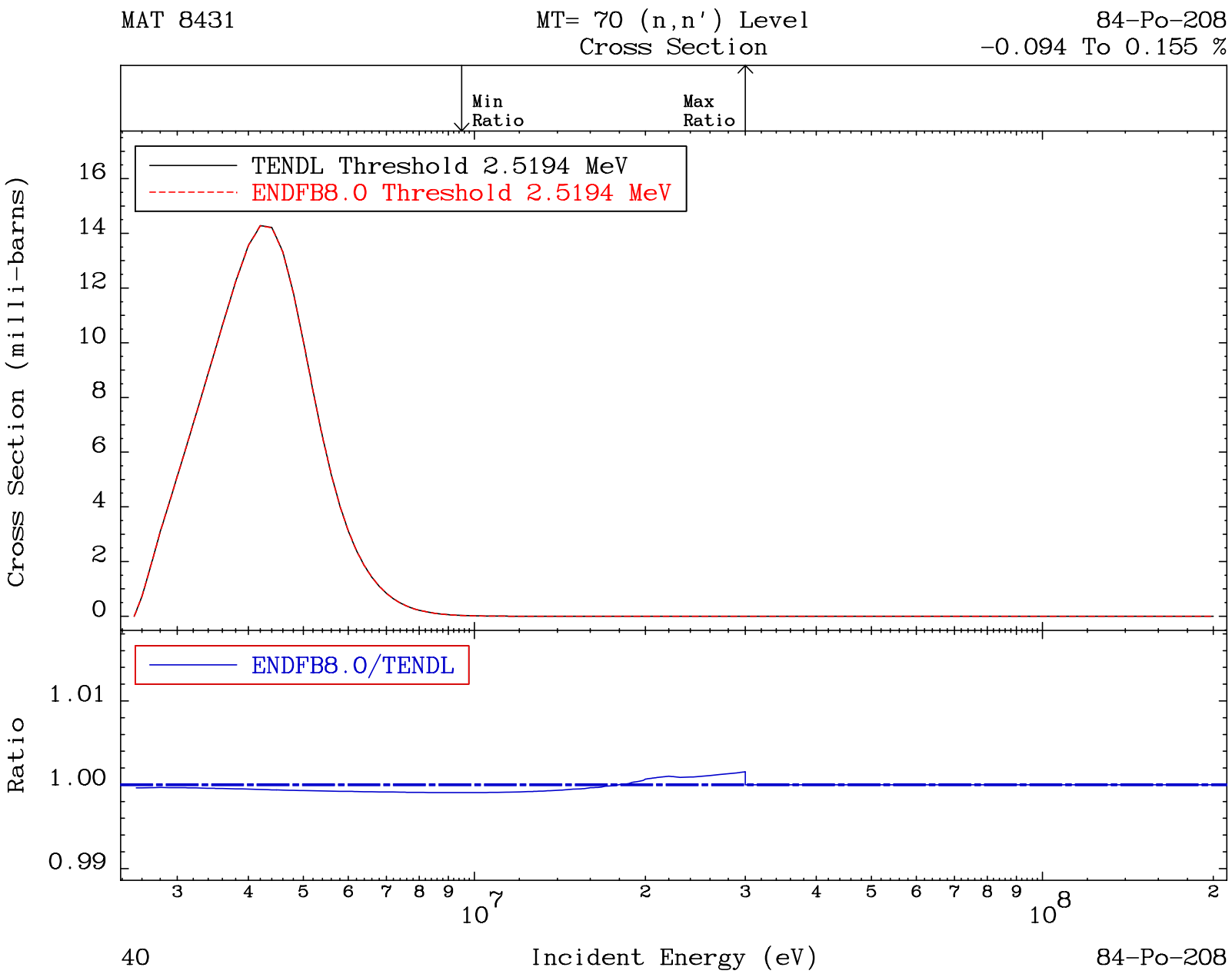

MAT 8431
MT= 65 (n,n') Level
Cross Section
84-Po-208
-0.066 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.2917 MeV
ENDFB8.0 Threshold 2.2917 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
84-Po-208

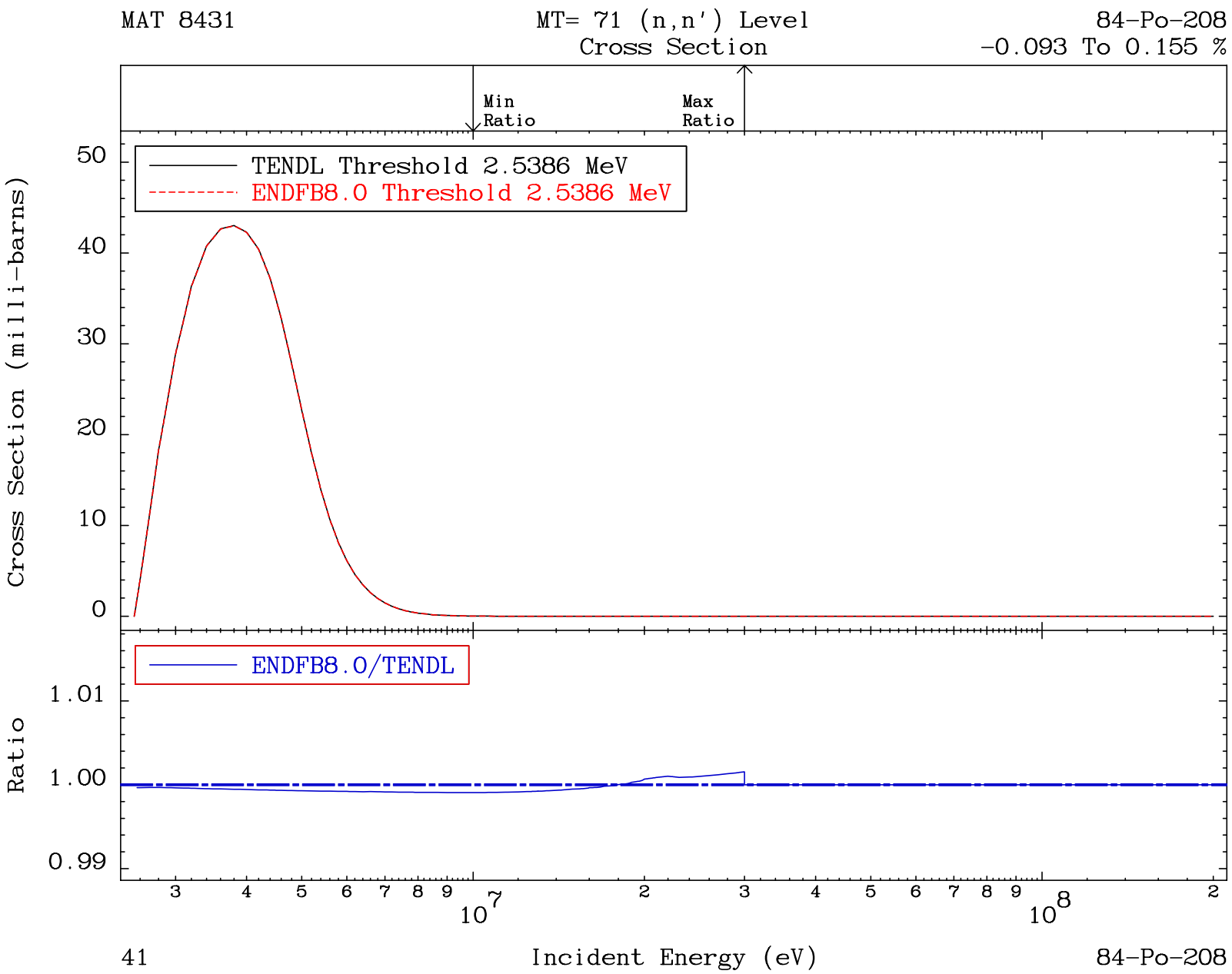

MAT 8431
MT= 66 (n,n') Level
Cross Section
84-Po-208
-0.066 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.3047 MeV
ENDFB8.0 Threshold 2.3047 MeV
Cross Section (milli-barns)
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
84-Po-208

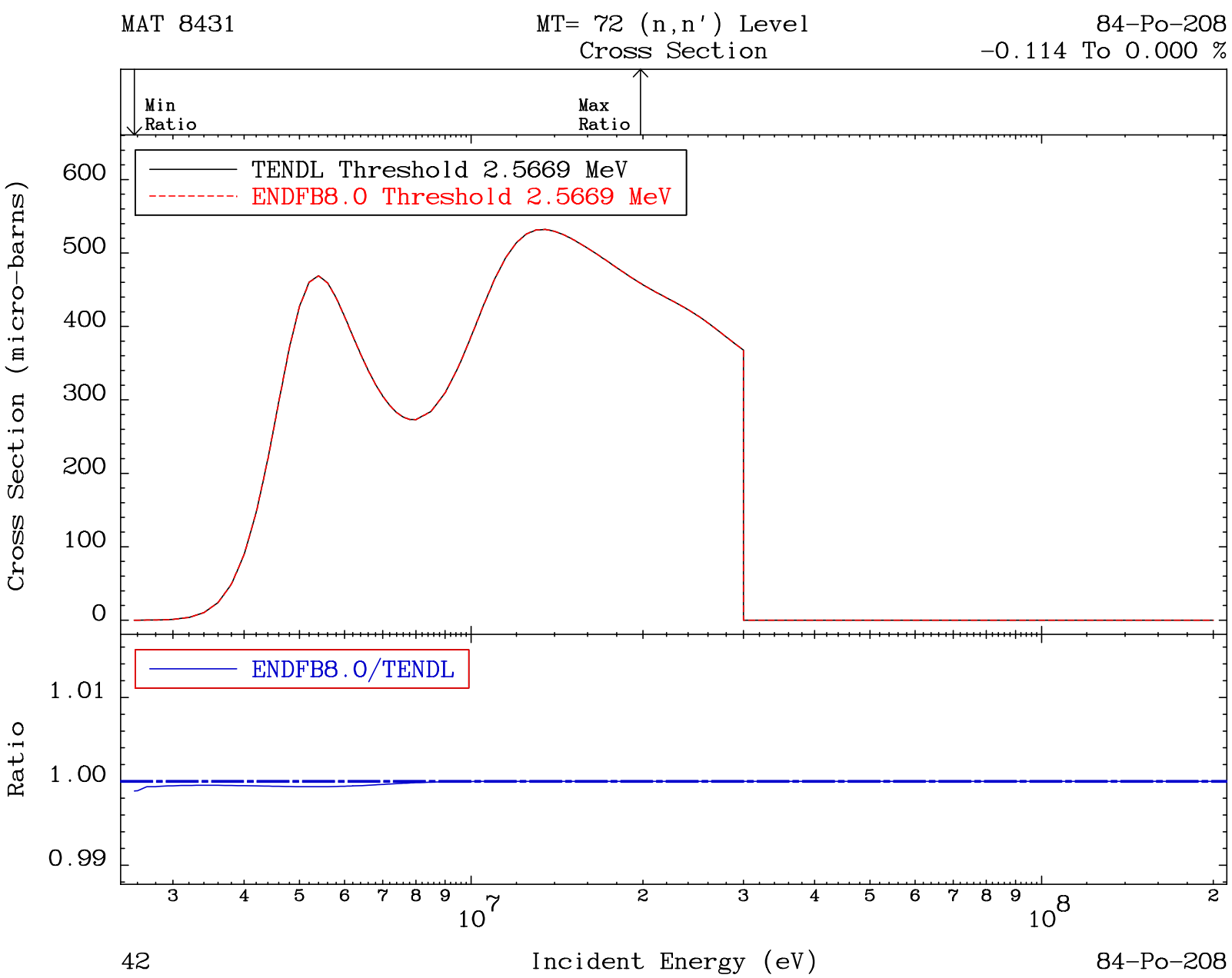

MAT 8431
MT= 67 (n,n') Level
Cross Section
84-Po-208
-0.094 To 0.155 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.3467 MeV
ENDFB8.0 Threshold 2.3467 MeV
Cross Section (milli-barns)
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
37
Incident Energy (eV)
84-Po-208

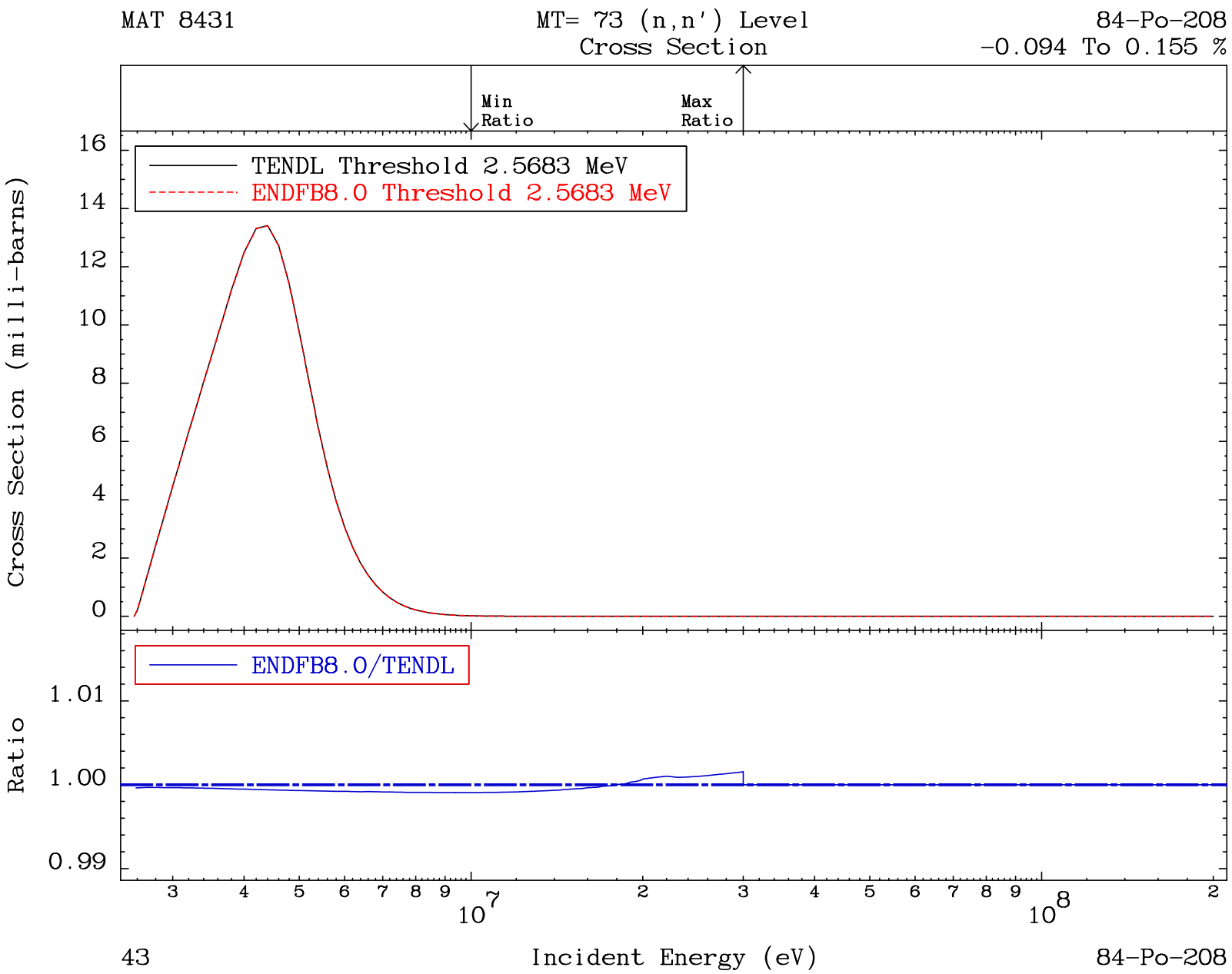

MAT 8431
MT= 68 (n,n') Level
Cross Section
84-Po-208
-0.067 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.3807 MeV
ENDFB8.0 Threshold 2.3807 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
ENDFB8.0/TENDL
Ratio
0.99
1.00
1.01
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
38
84-Po-208

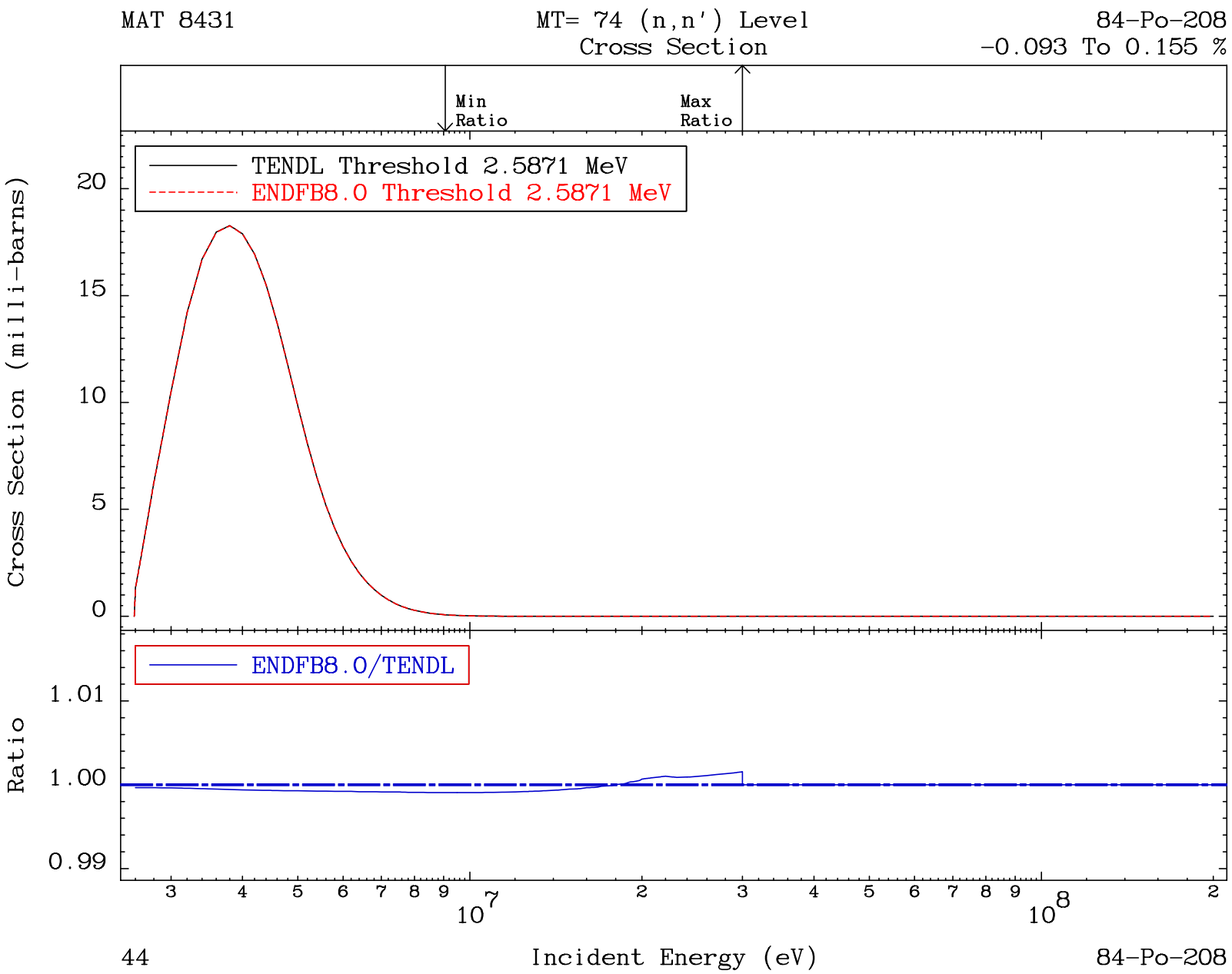

MAT 8431
MT= 69 (n,n') Level
Cross Section
84-Po-208
-0.065 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.4263 MeV
ENDFB8.0 Threshold 2.4263 MeV
Cross Section (milli-barns)
0
2
4
6
8
ENDFB8.0/TENDL
Ratio
0.99
1.00
1.01
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
84-Po-208

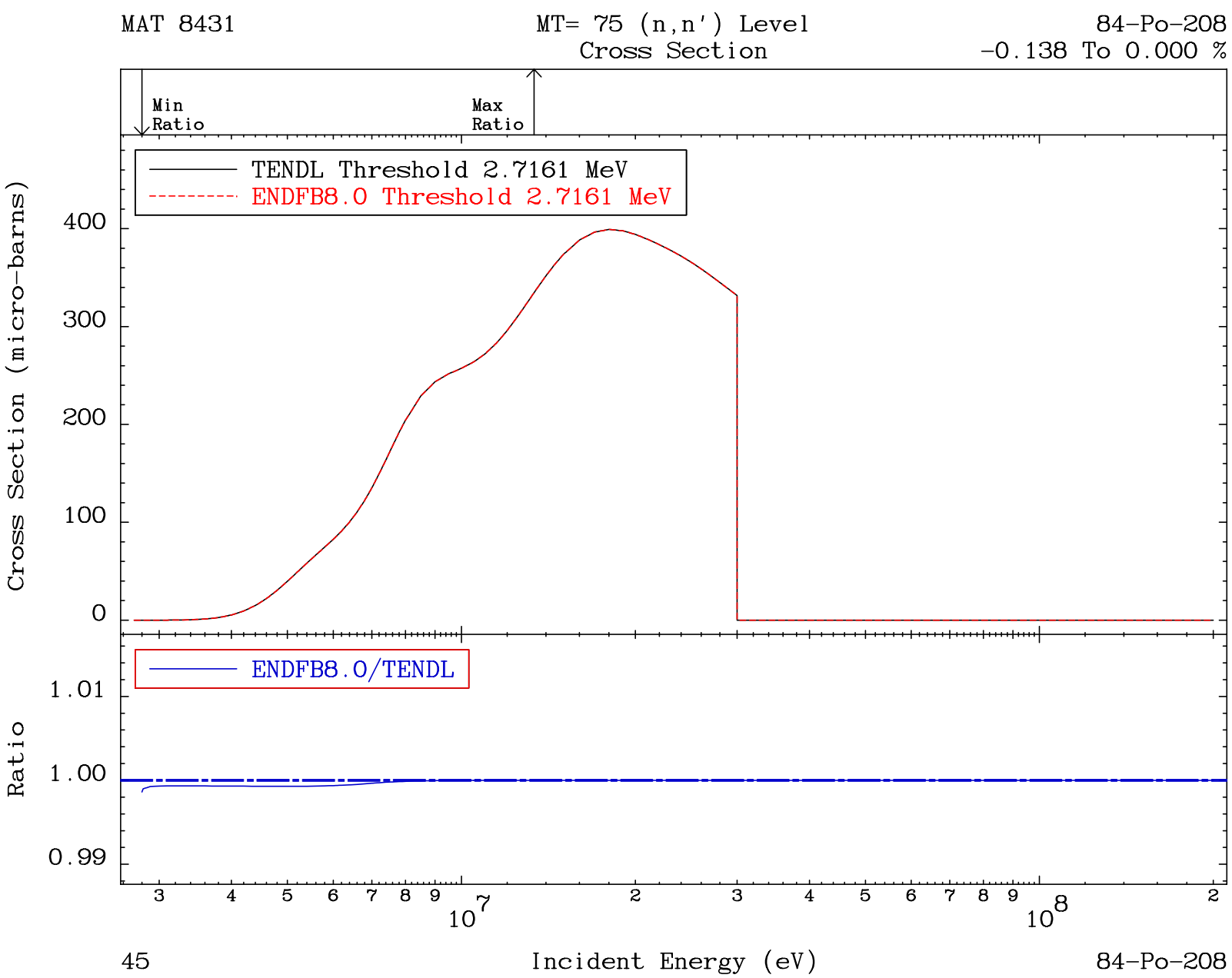

MAT 8431
MT= 70 (n,n') Level
Cross Section
84-Po-208
-0.094 To 0.155 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5194 MeV
ENDFB8.0 Threshold 2.5194 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
40
Incident Energy (eV)
84-Po-208

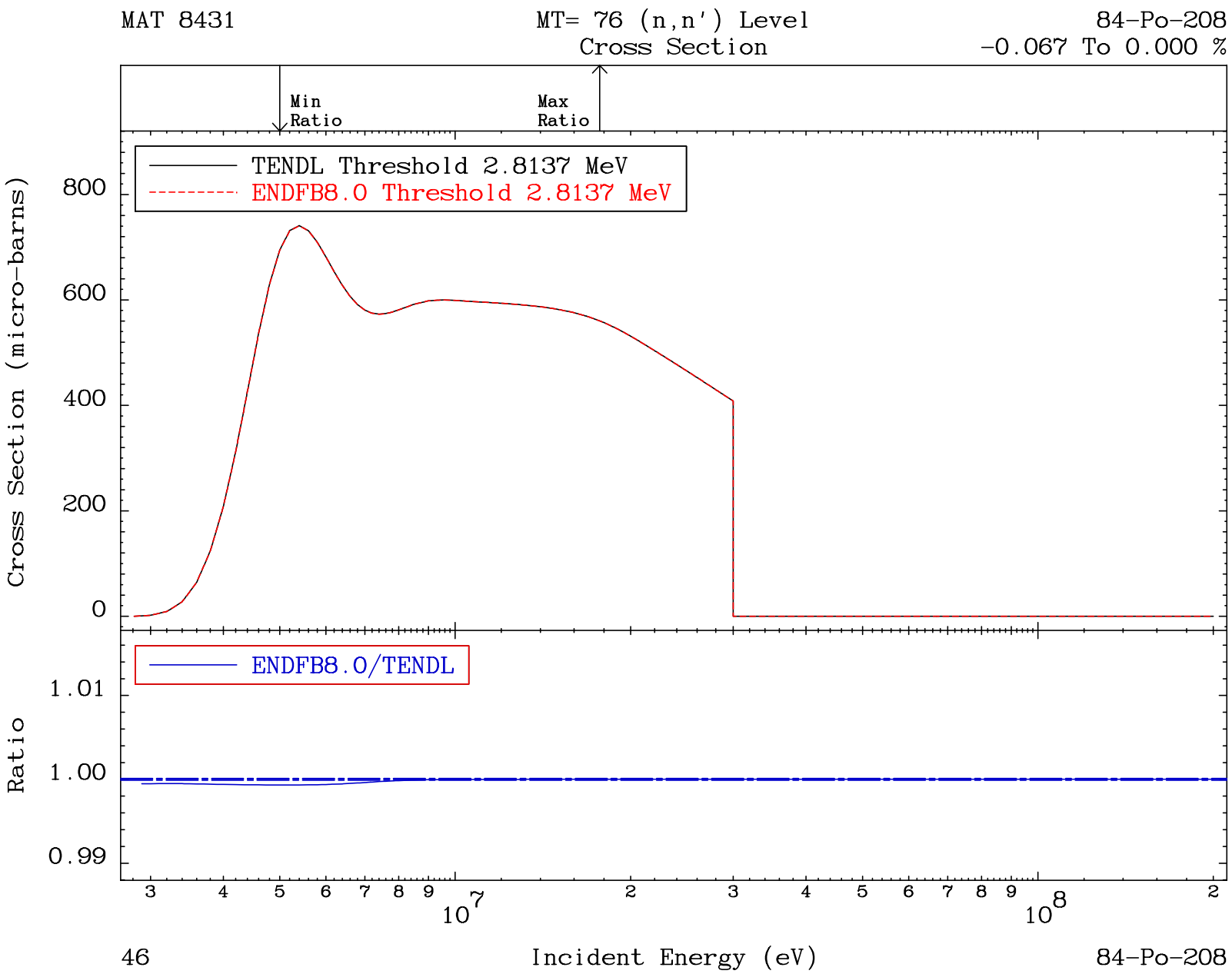

MAT 8431
MT= 71 (n,n') Level
Cross Section
84-Po-208
-0.093 To 0.155 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5386 MeV
ENDFB8.0 Threshold 2.5386 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
41
Incident Energy (eV)
84-Po-208

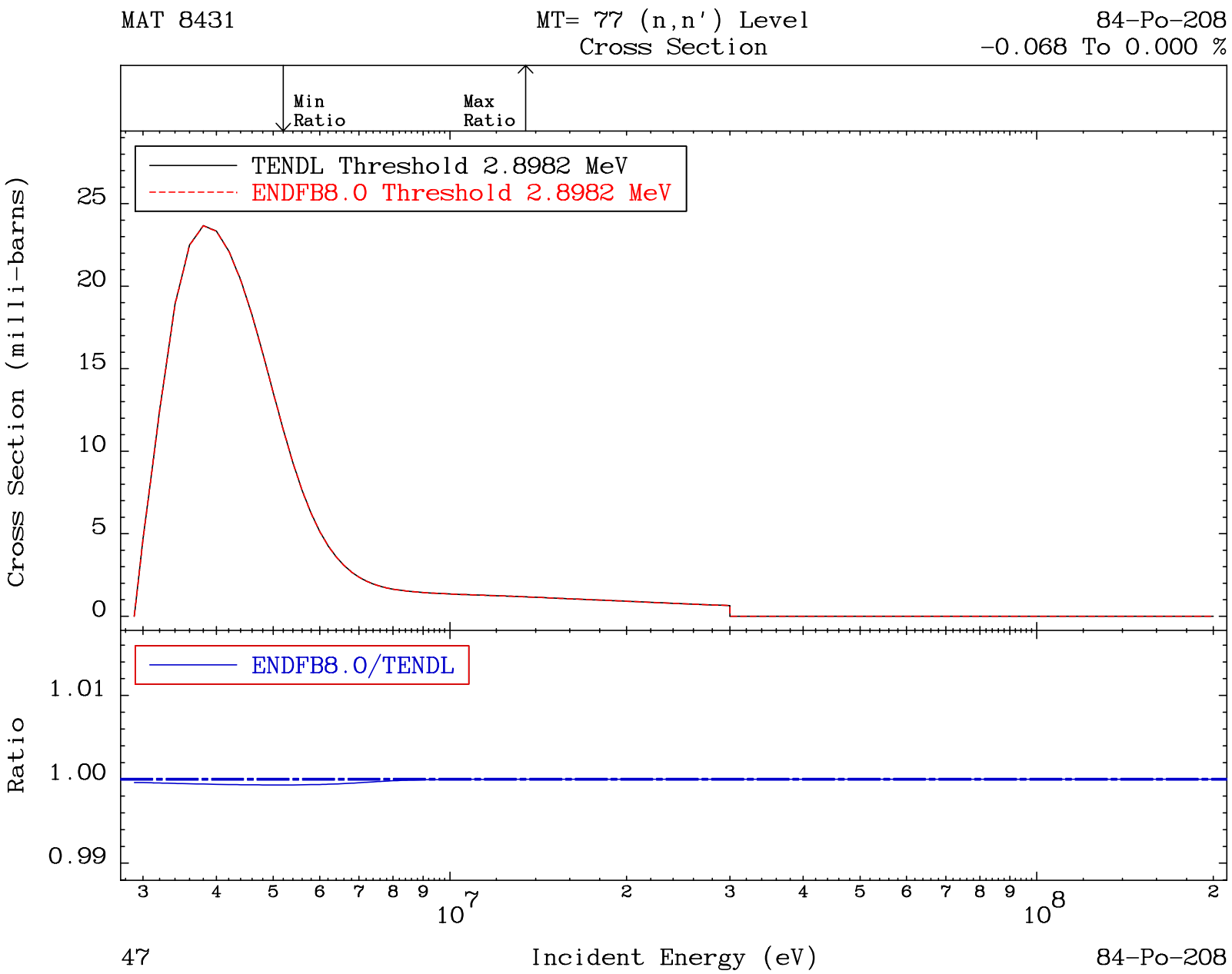

MAT 8431
MT= 72 (n,n') Level
Cross Section
84-Po-208
-0.114 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5669 MeV
ENDFB8.0 Threshold 2.5669 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
84-Po-208

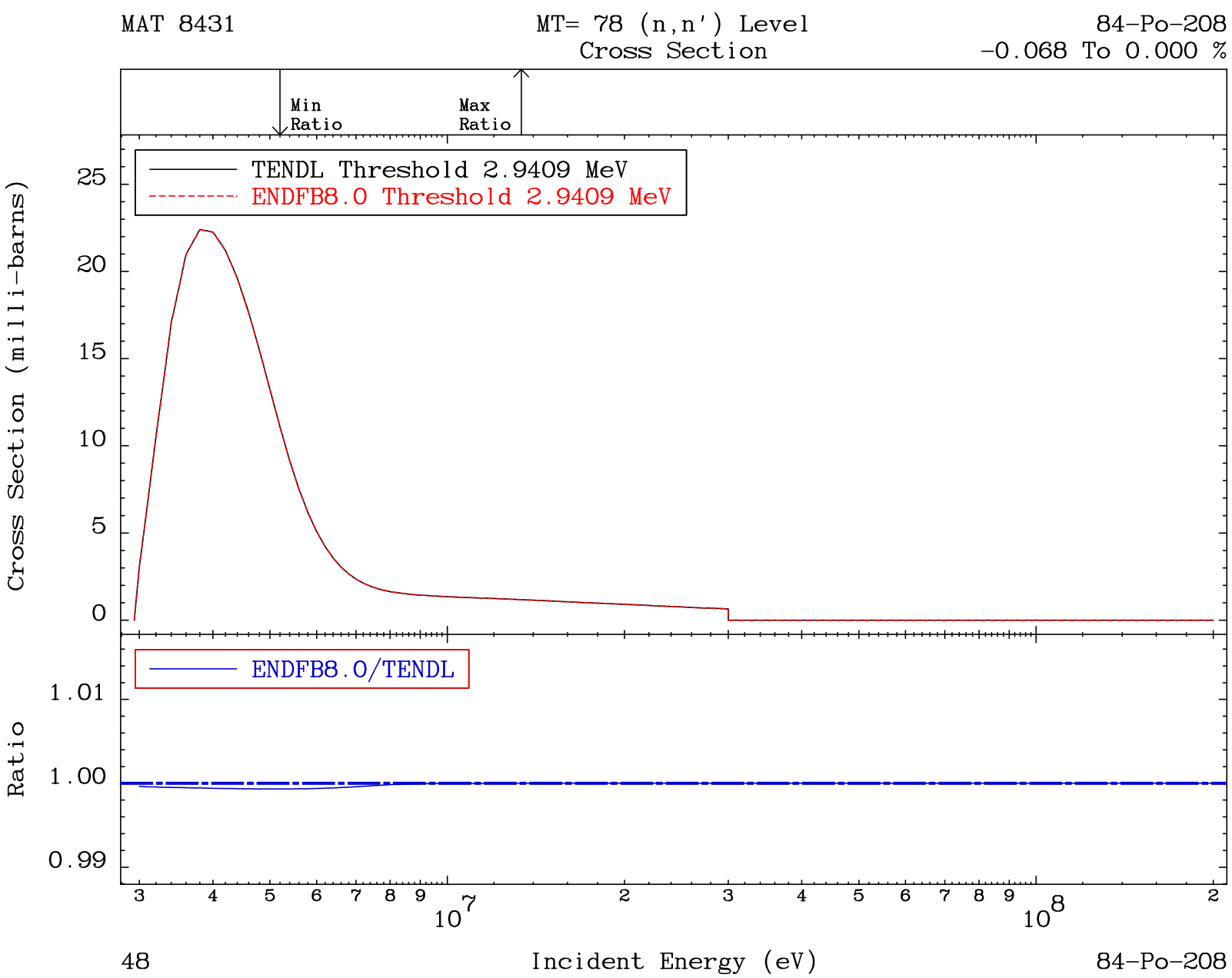

MAT 8431
MT= 73 (n,n') Level
Cross Section
84-Po-208
-0.094 To 0.155 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5683 MeV
ENDFB8.0 Threshold 2.5683 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
84-Po-208

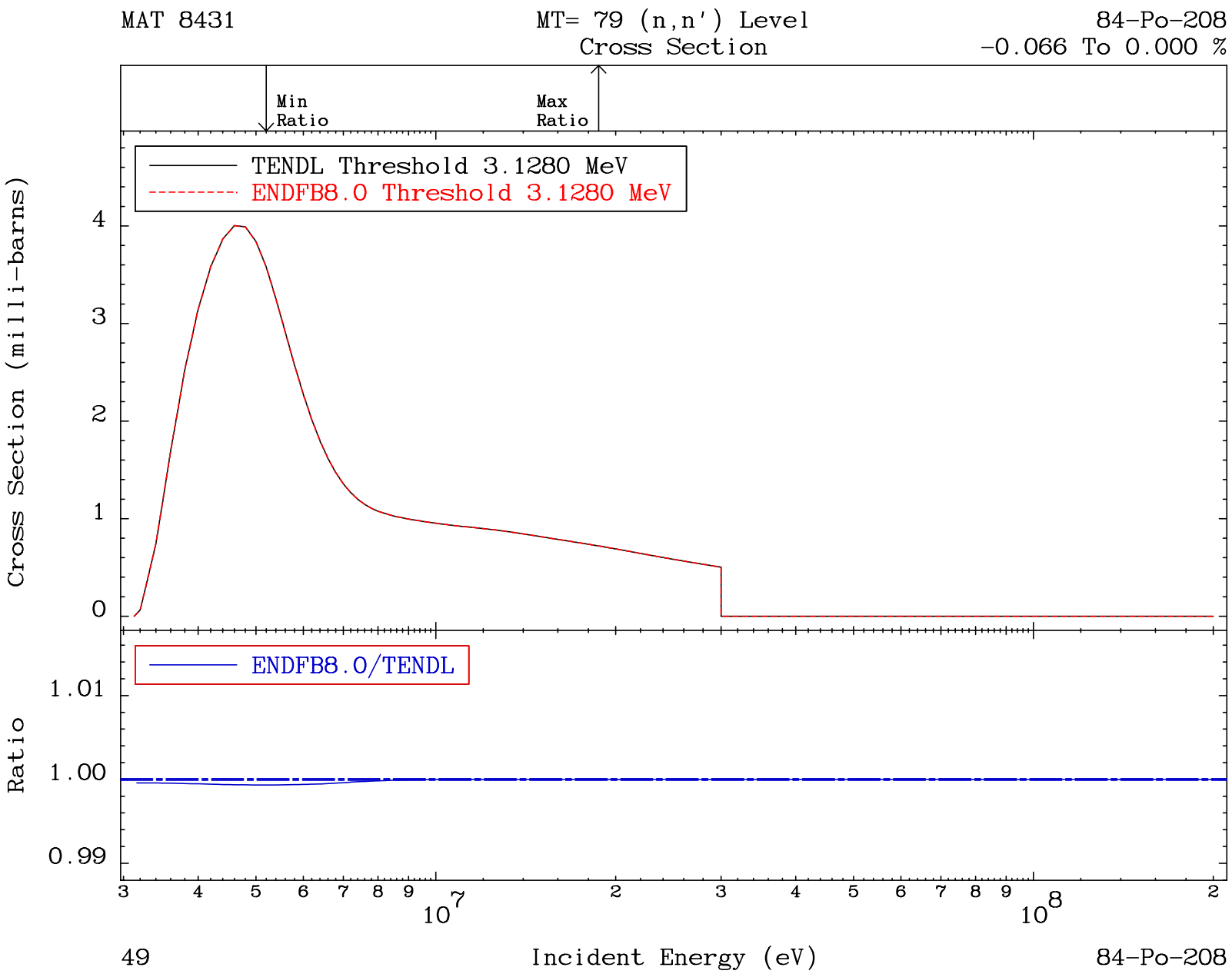

MAT 8431
MT= 74 (n,n') Level
Cross Section
84-Po-208
-0.093 To 0.155 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5871 MeV
ENDFB8.0 Threshold 2.5871 MeV
Cross Section (milli-barns)
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
44
Incident Energy (eV)
84-Po-208

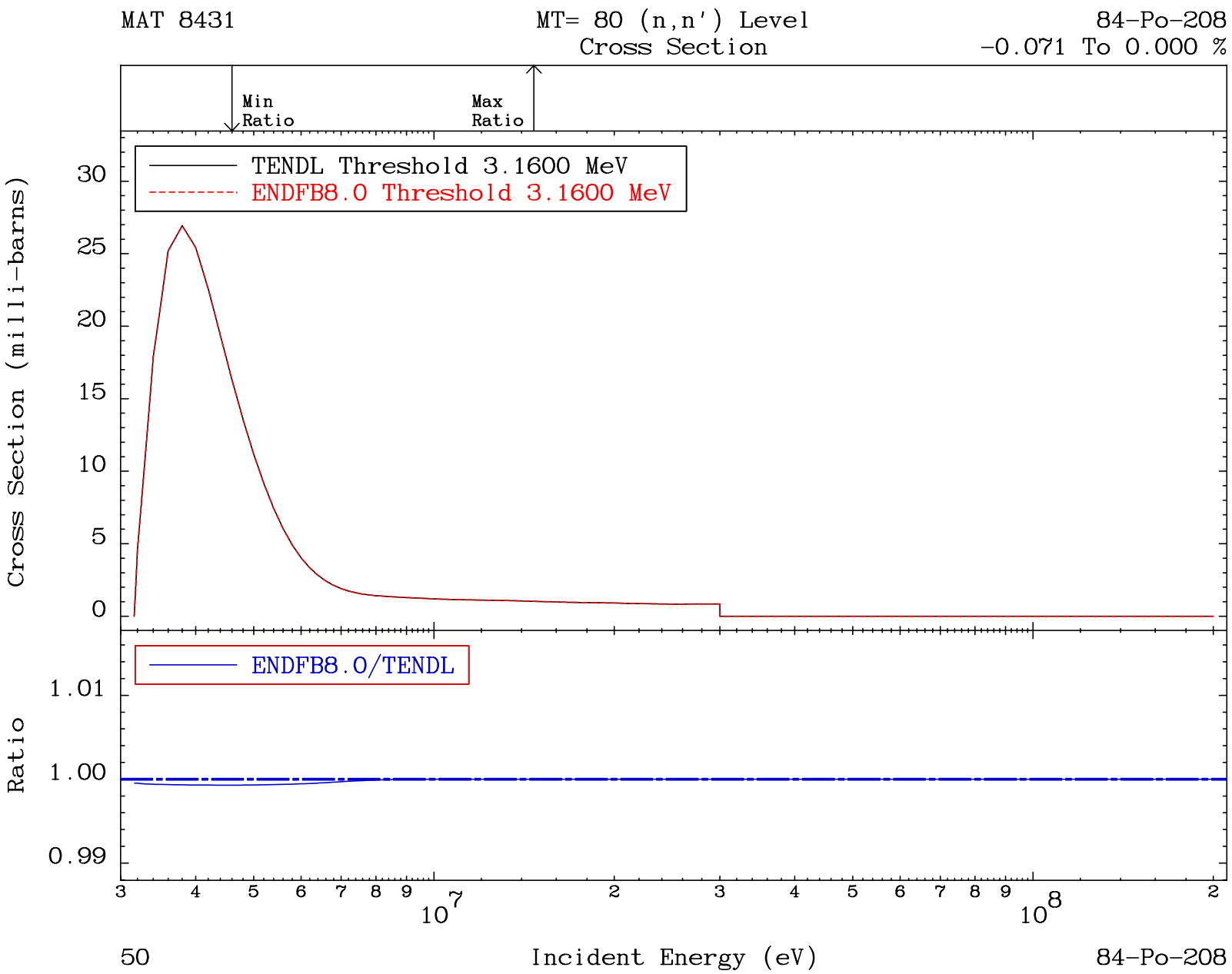

MAT 8431
MT= 75 (n,n') Level
Cross Section
84-Po-208
-0.138 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.7161 MeV
ENDFB8.0 Threshold 2.7161 MeV
Cross Section (micro-barns)
400
300
200
100
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
45
Incident Energy (eV)
84-Po-208

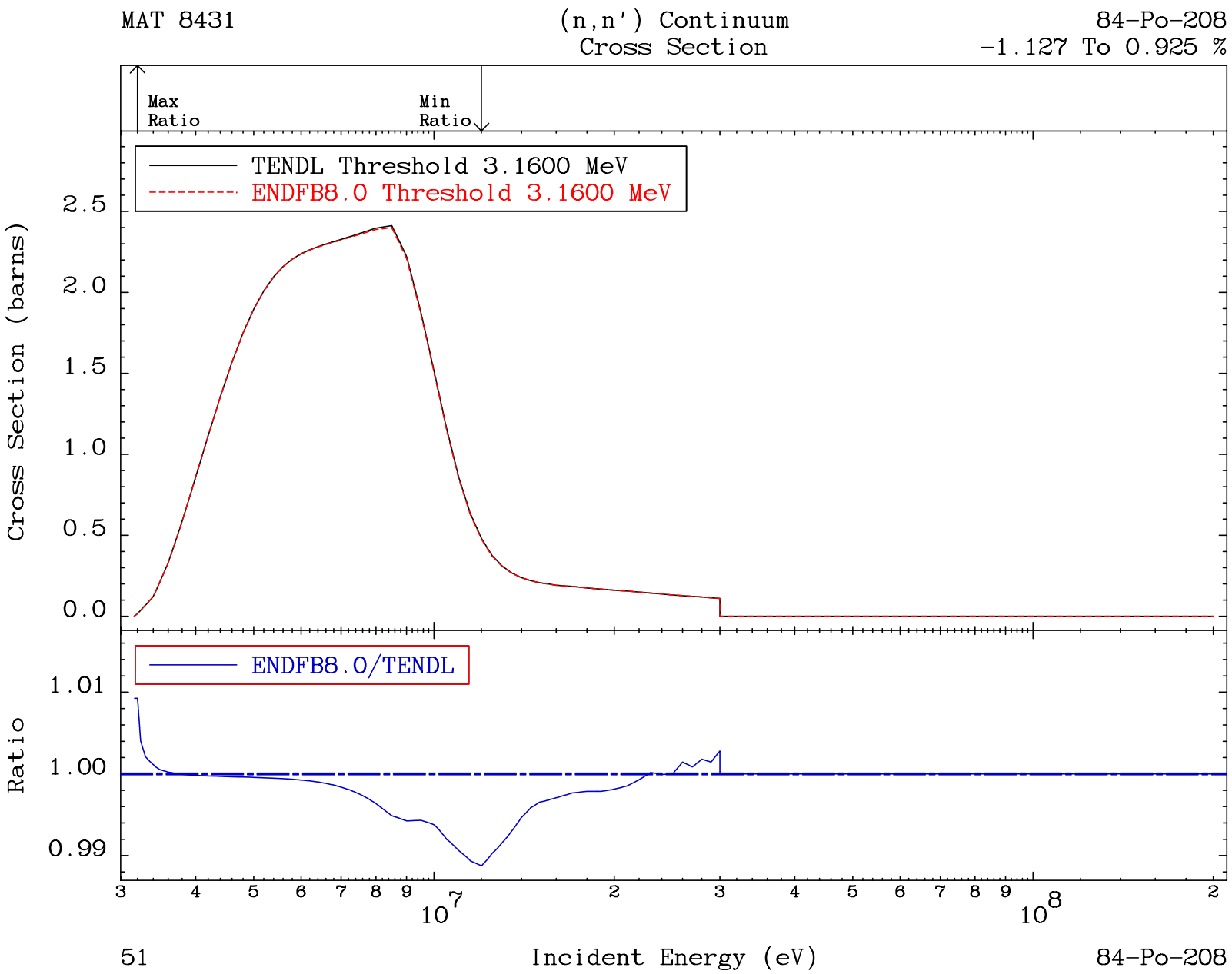

MAT 8431
MT= 76 (n,n') Level
Cross Section
84-Po-208
-0.067 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8137 MeV
ENDFB8.0 Threshold 2.8137 MeV
Cross Section (micro-barns)
800
600
400
200
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
84-Po-208

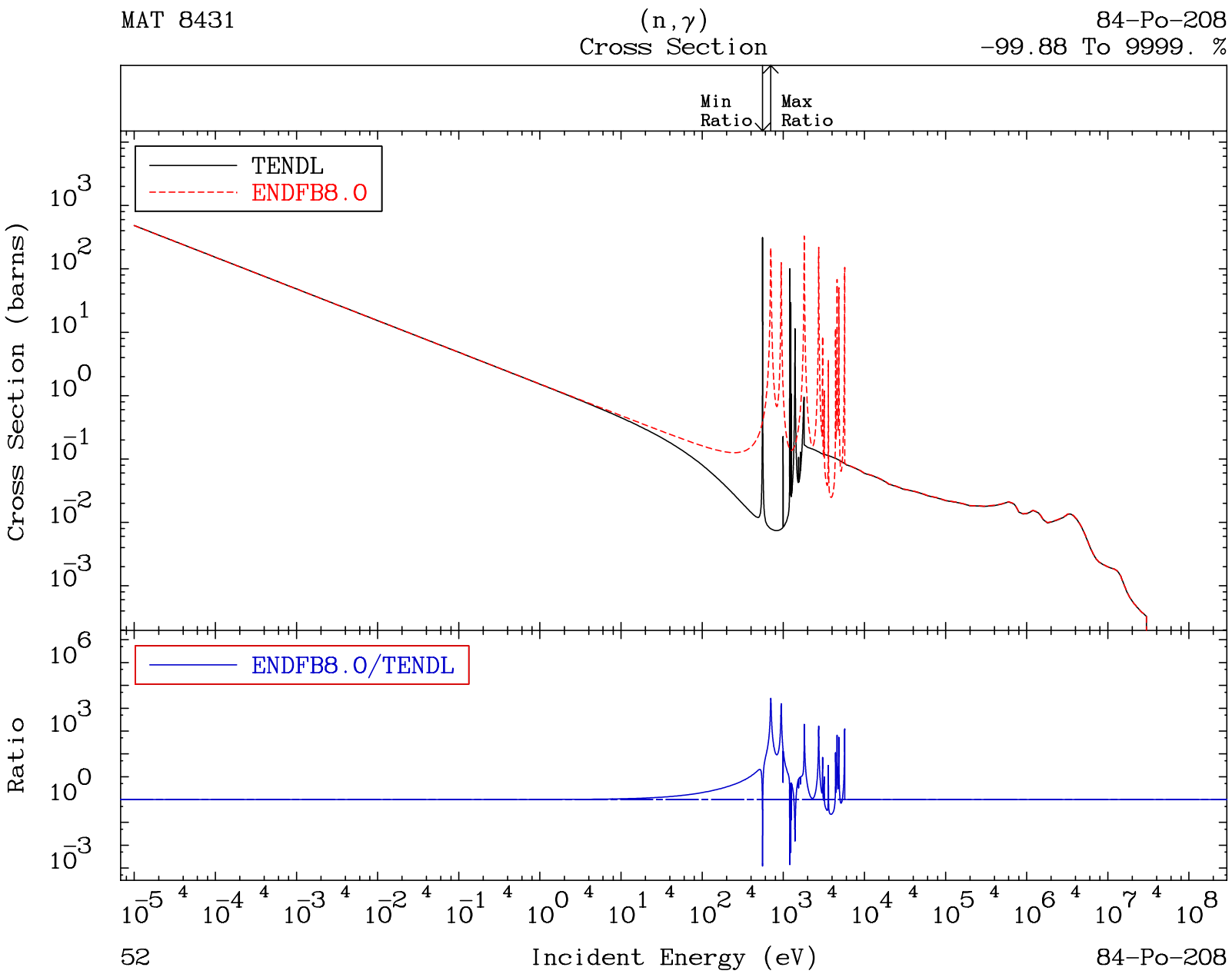

MAT 8431
MT= 77 (n,n') Level
Cross Section
84-Po-208
-0.068 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8982 MeV
ENDFB8.0 Threshold 2.8982 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
84-Po-208

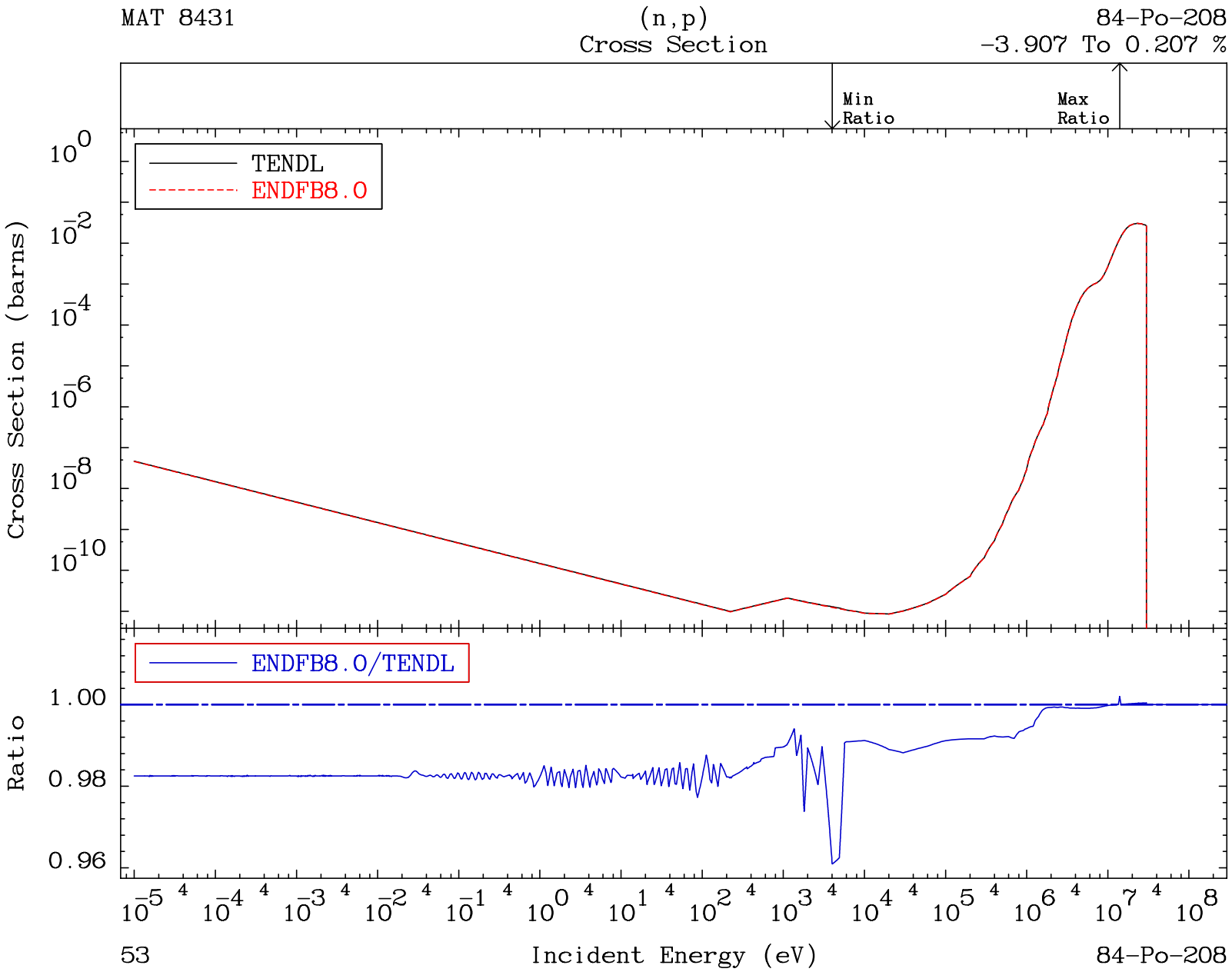

MAT 8431
MT= 78 (n,n') Level
Cross Section
84-Po-208
-0.068 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.9409 MeV
ENDFB8.0 Threshold 2.9409 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
84-Po-208

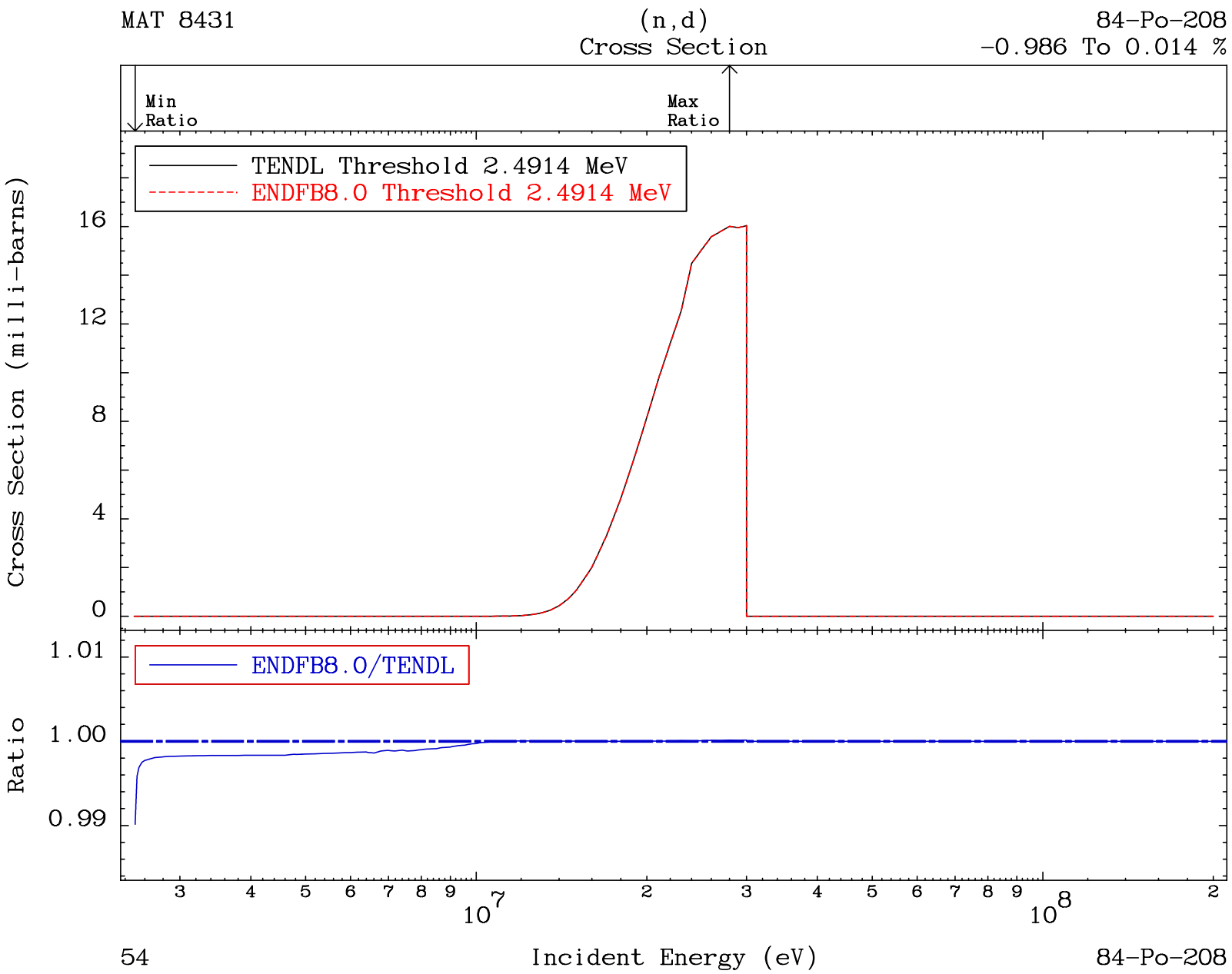

MAT 8431
MT= 79 (n,n') Level
Cross Section
84-Po-208
-0.066 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.1280 MeV
ENDFB8.0 Threshold 3.1280 MeV
Cross Section (milli-barns)
0
1
2
3
4
ENDFB8.0/TENDL
Ratio
0.99
1.00
1.01
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
49
84-Po-208

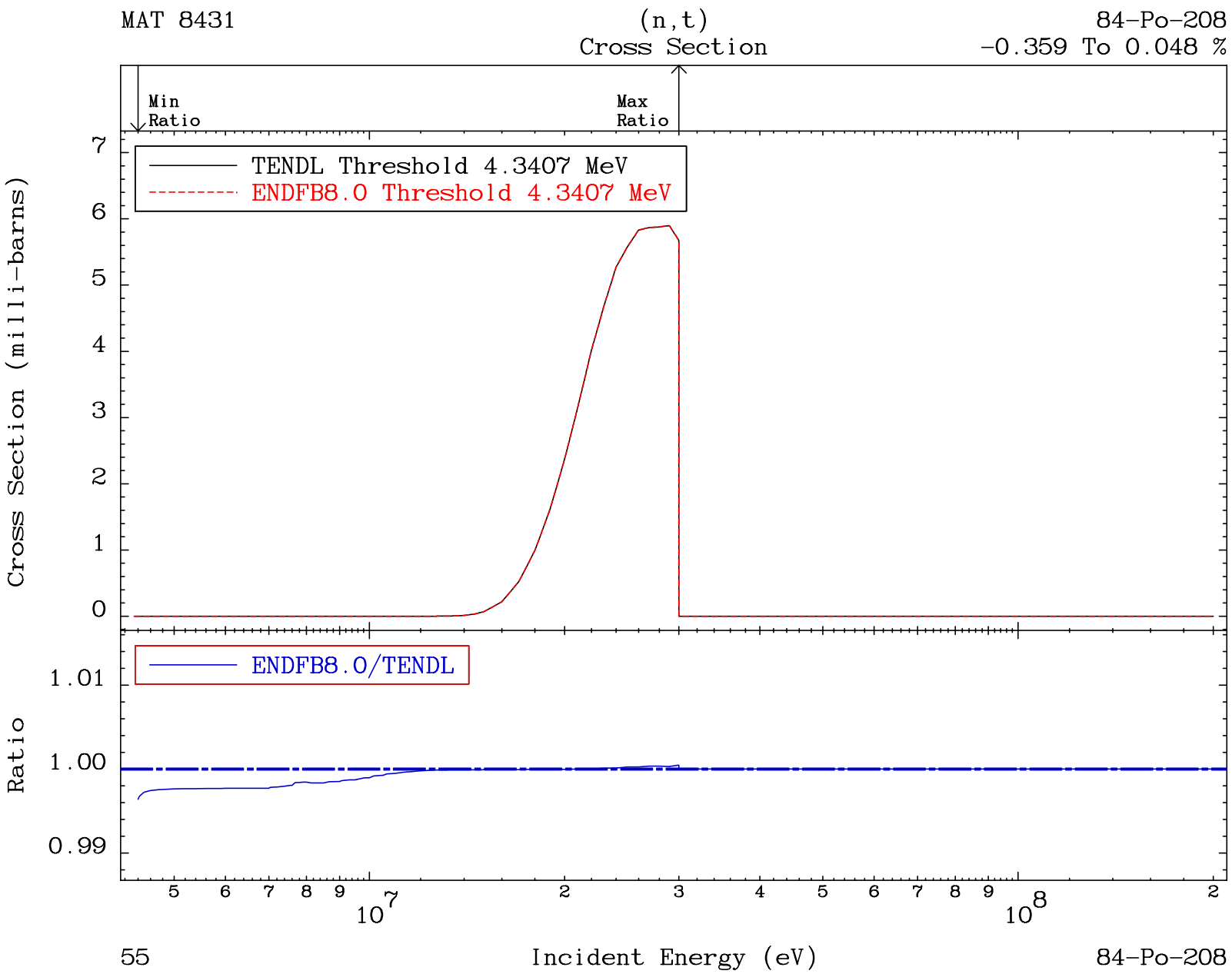

MAT 8431
MT= 80 (n,n') Level
Cross Section
84-Po-208
-0.071 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.1600 MeV
ENDFB8.0 Threshold 3.1600 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
50
Incident Energy (eV)
84-Po-208

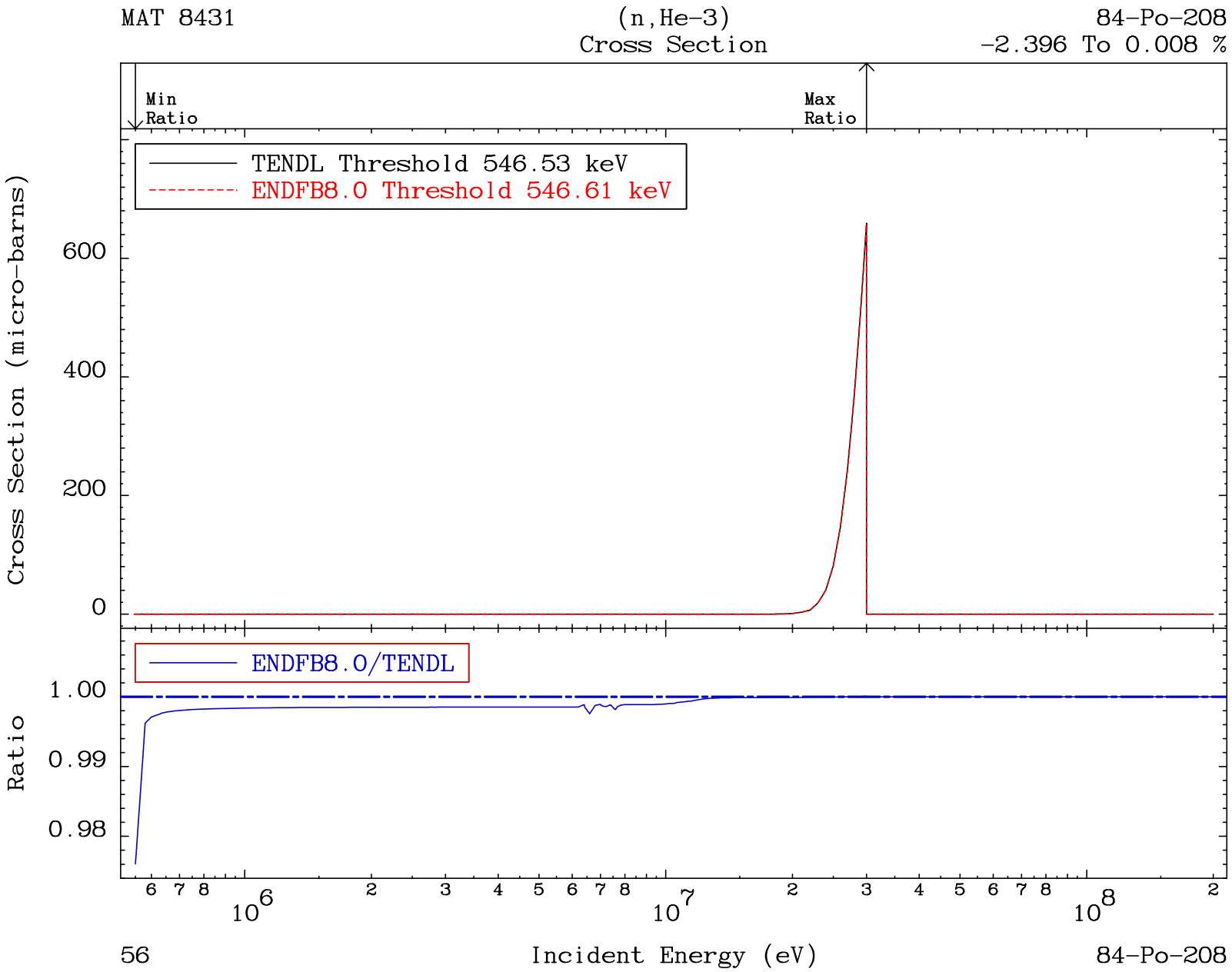

MAT 8431
(n,n') Continuum
Cross Section
84-Po-208
-1.127 To 0.925 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.1600 MeV
ENDFB8.0 Threshold 3.1600 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
84-Po-208

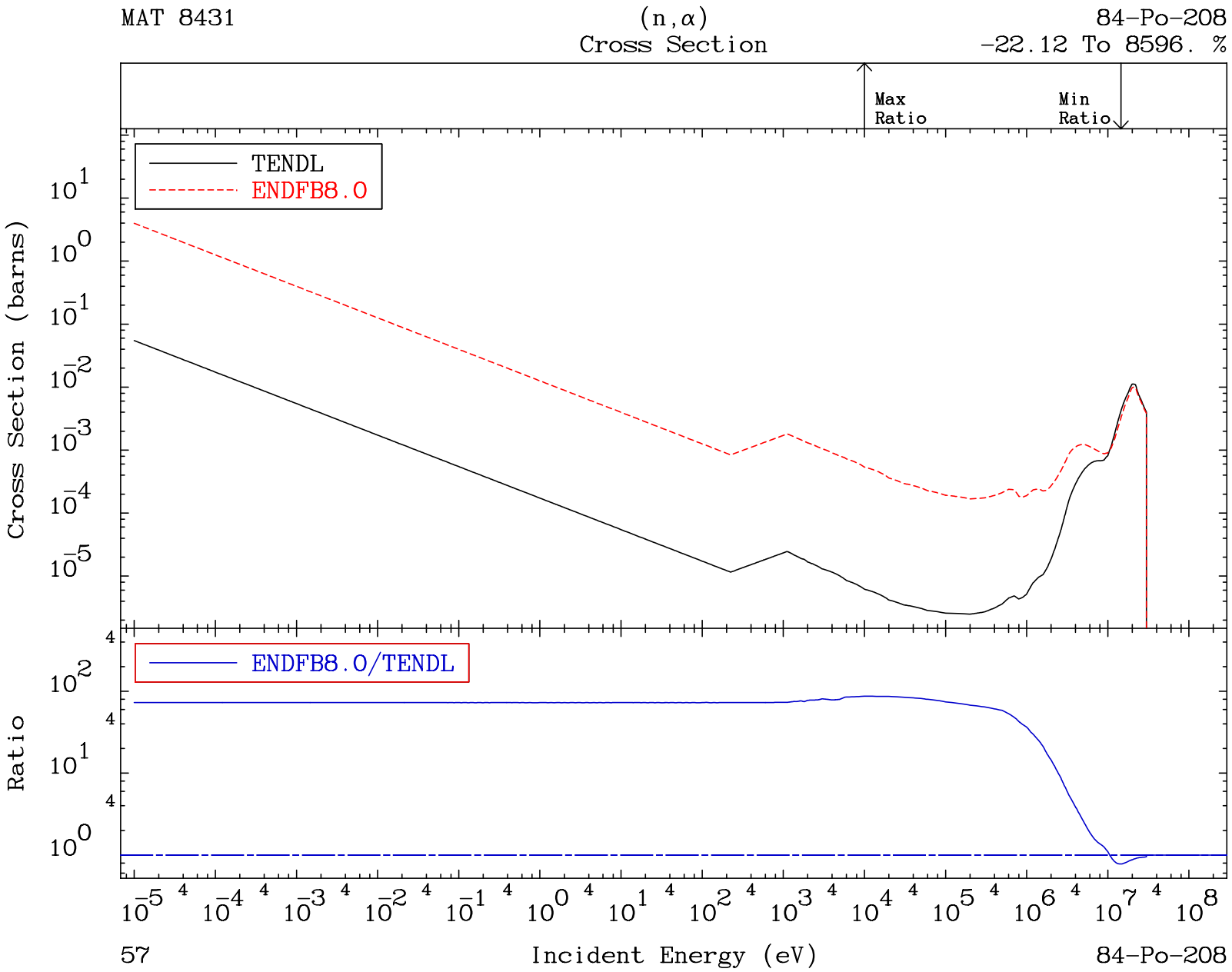

MAT 8431
(n,γ)
Cross Section
84-Po-208
-99.88 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
52
84-Po-208

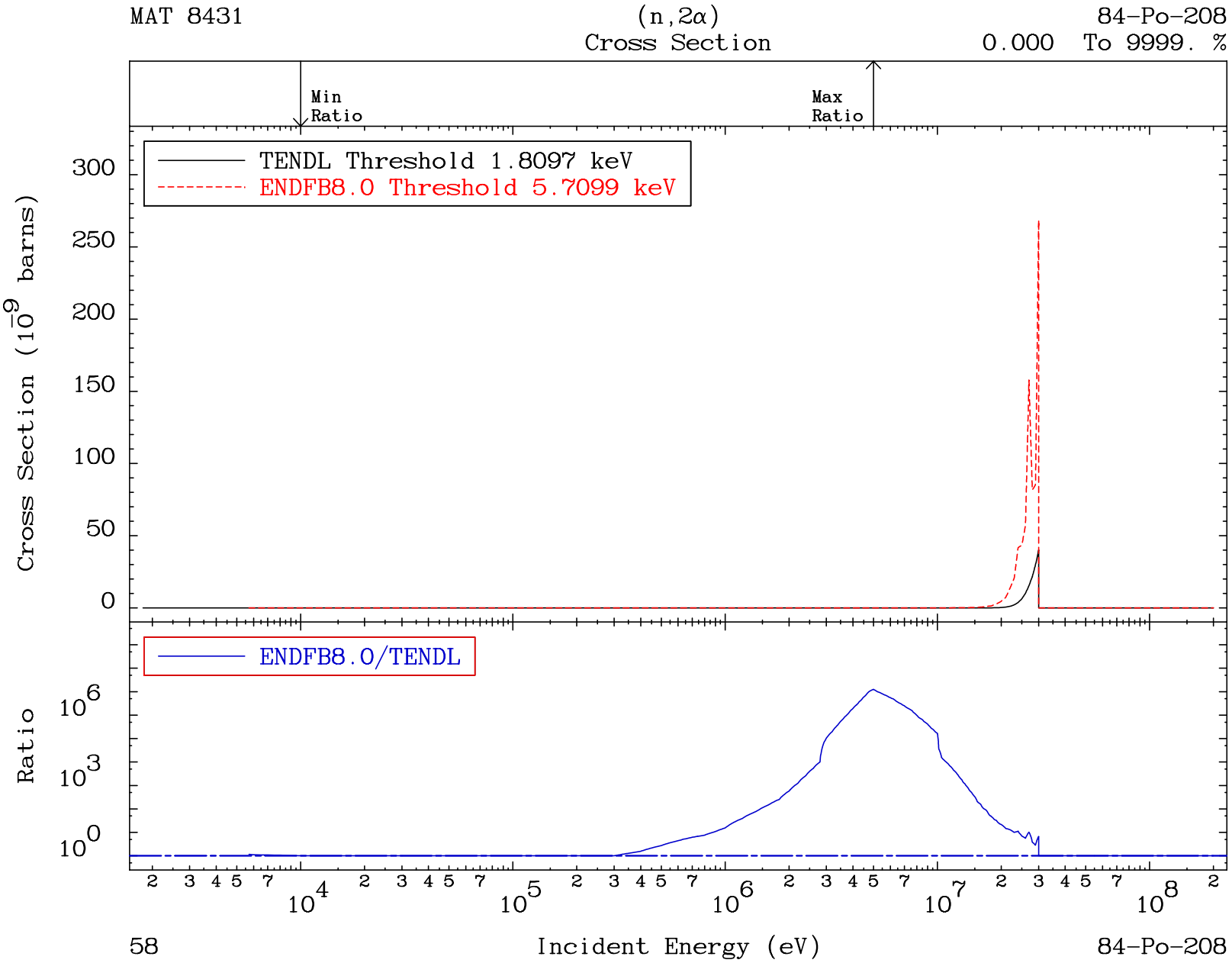

MAT 8431
(n,p)
Cross Section
84-Po-208
-3.907 To 0.207 %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
53
84-Po-208

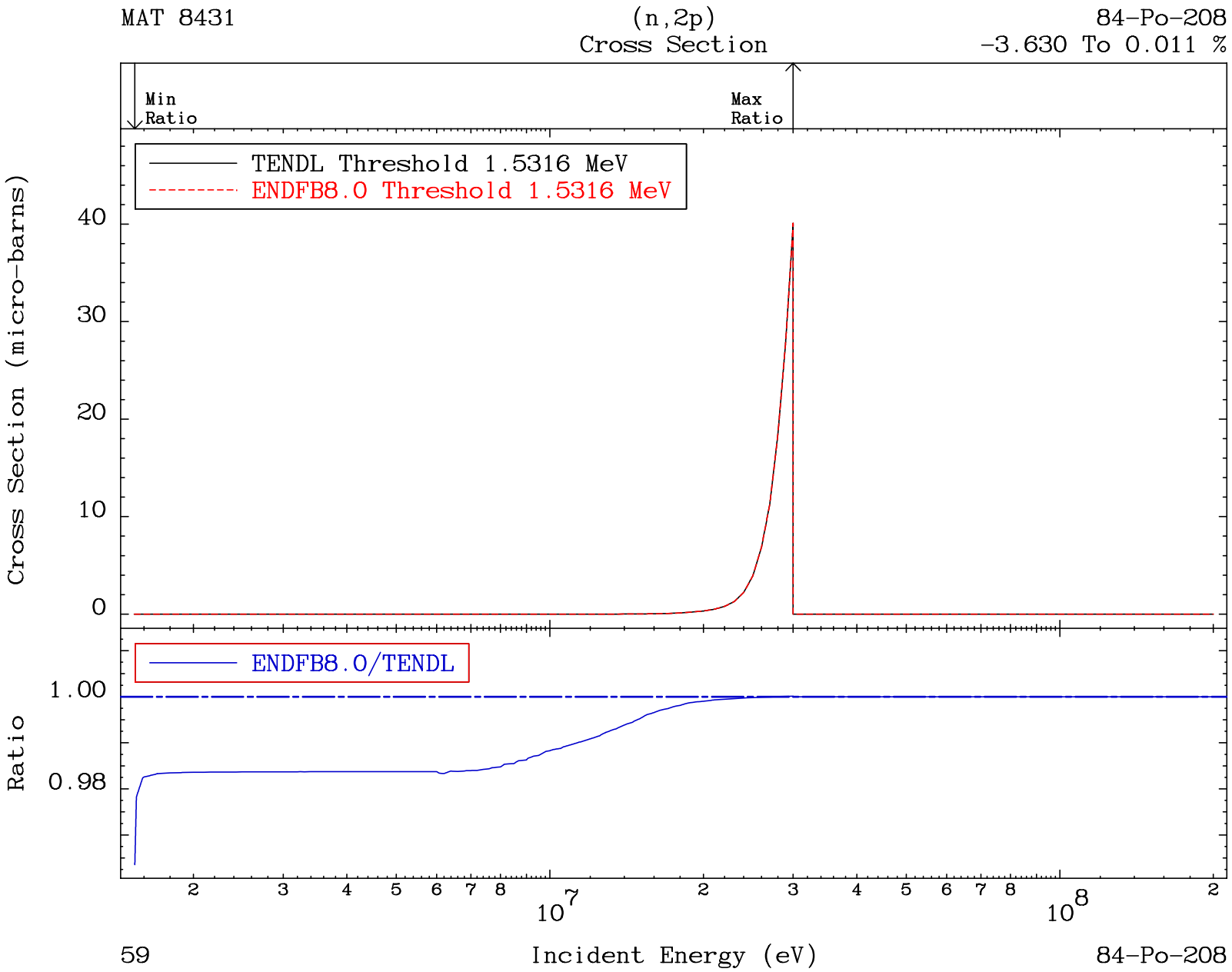

MAT 8431
(n,d)
Cross Section
84-Po-208
-0.986 To 0.014 %
Min Ratio
Max Ratio
TENDL Threshold 2.4914 MeV
ENDFB8.0 Threshold 2.4914 MeV
Cross Section (milli-barns)
16
12
8
4
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
84-Po-208

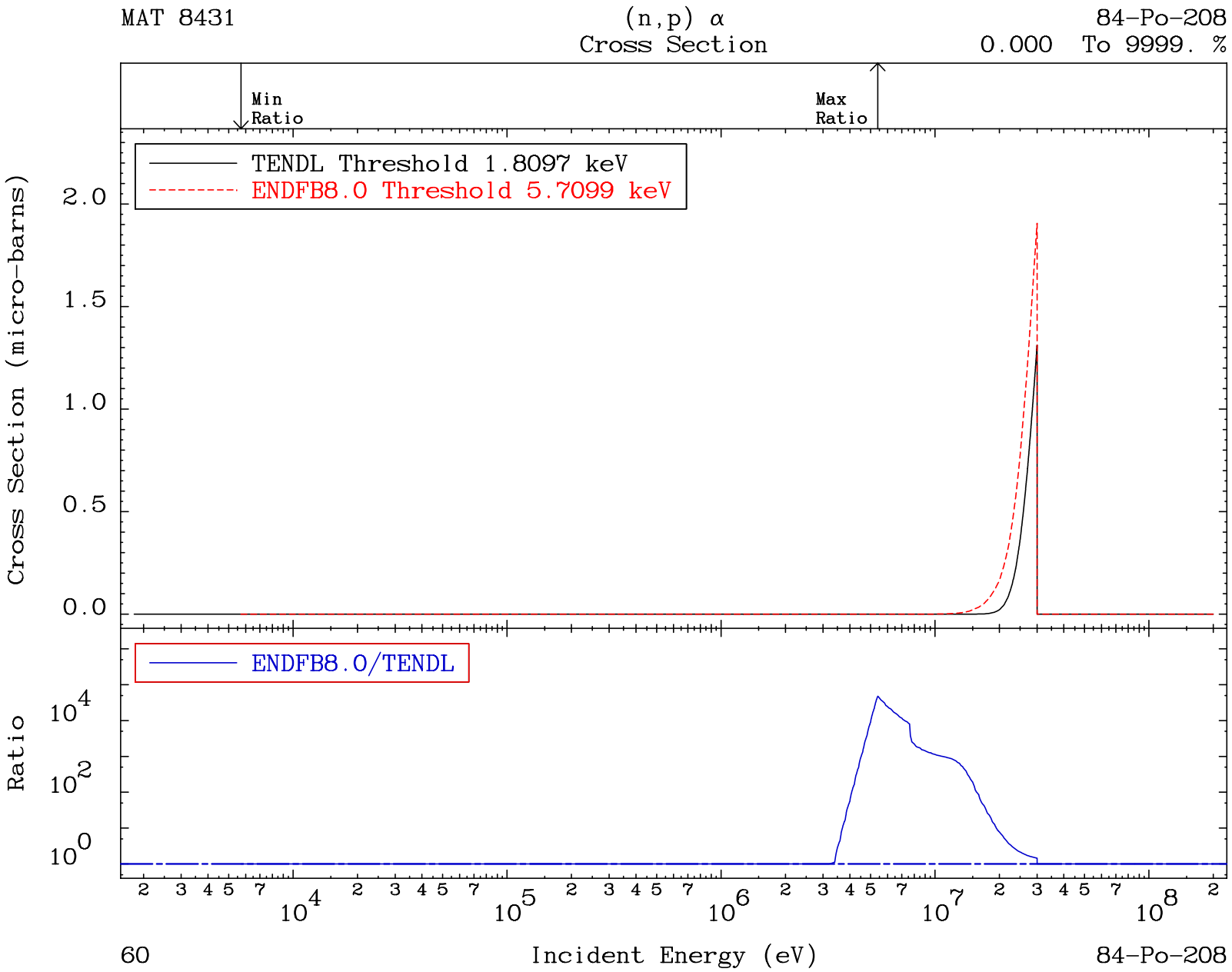

MAT 8431
(n,t)
Cross Section
84-Po-208
-0.359 To 0.048 %
Min Ratio
Max Ratio
TENDL Threshold 4.3407 MeV
ENDFB8.0 Threshold 4.3407 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
ENDFB8.0/TENDL
Ratio
0.99
1.00
1.01
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
55
Incident Energy (eV)
84-Po-208

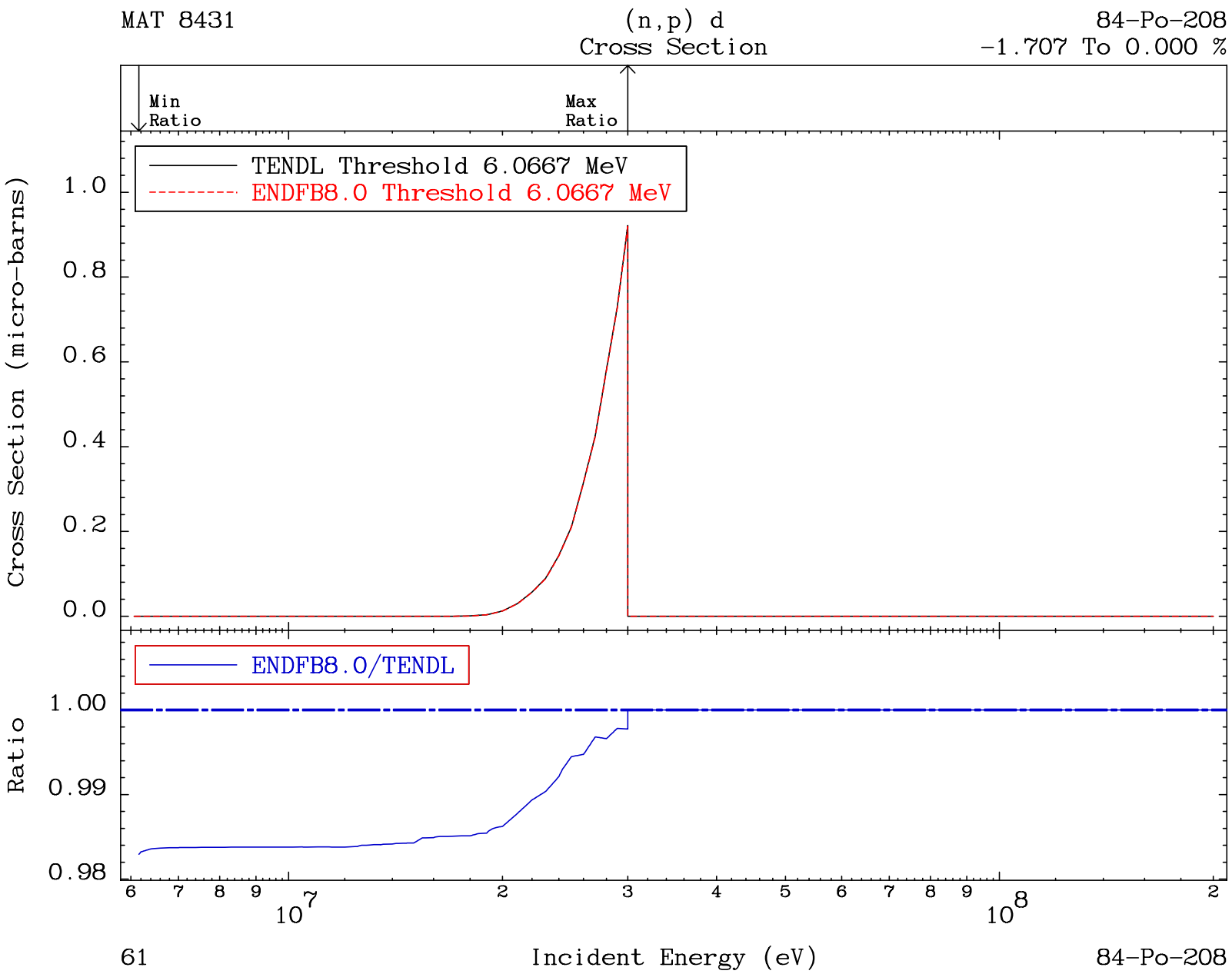

MAT 8431
(n,He-3)
Cross Section
84-Po-208
-2.396 To 0.008 %
Min Ratio
Max Ratio
TENDL Threshold 546.53 keV
ENDFB8.0 Threshold 546.61 keV
Cross Section (micro-barns)
600
400
200
0
ENDFB8.0/TENDL
Ratio
1.00
0.99
0.98
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
56
Incident Energy (eV)
84-Po-208

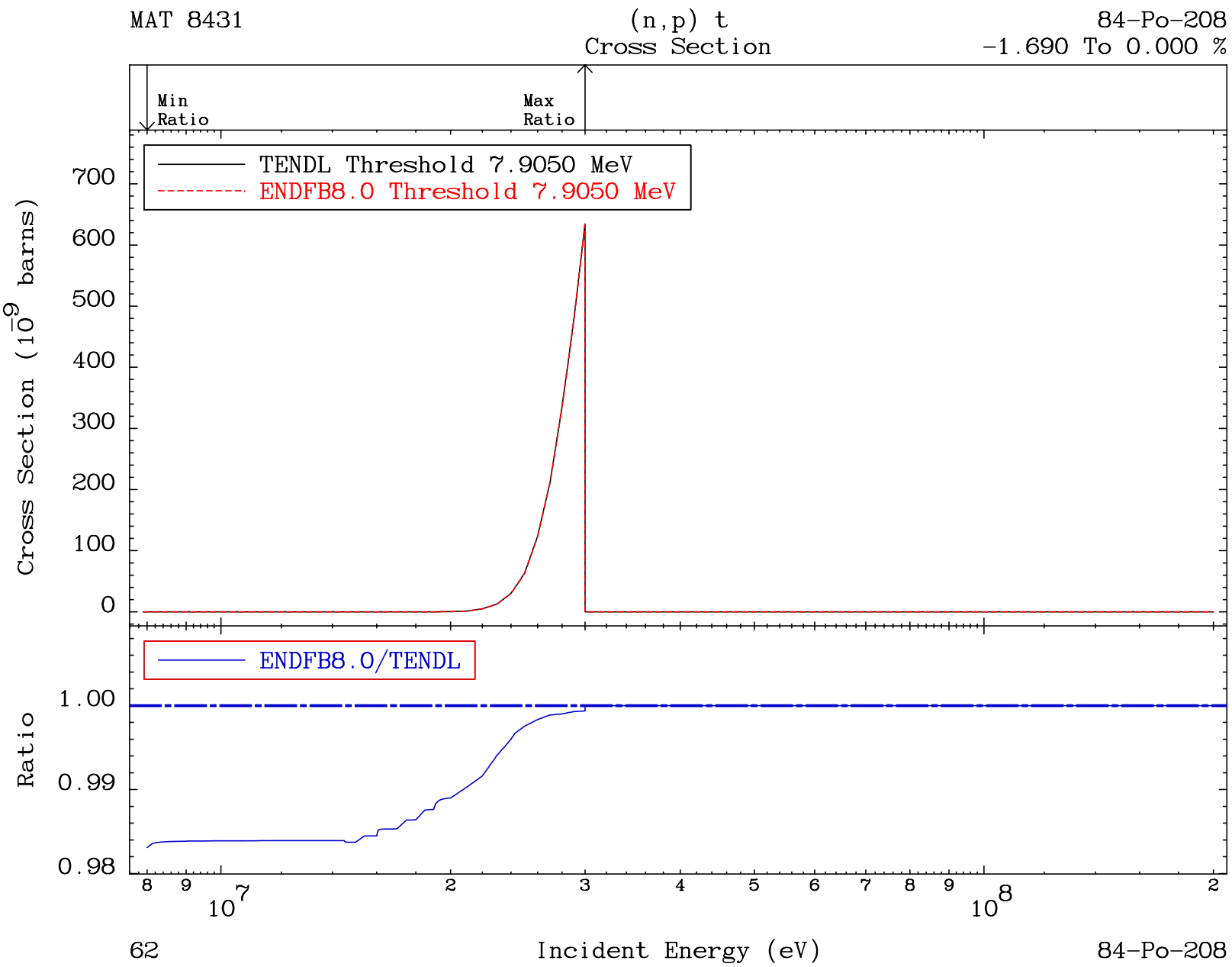

MAT 8431
(n,α)
Cross Section
84-Po-208
-22.12 To 8596. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
57
84-Po-208

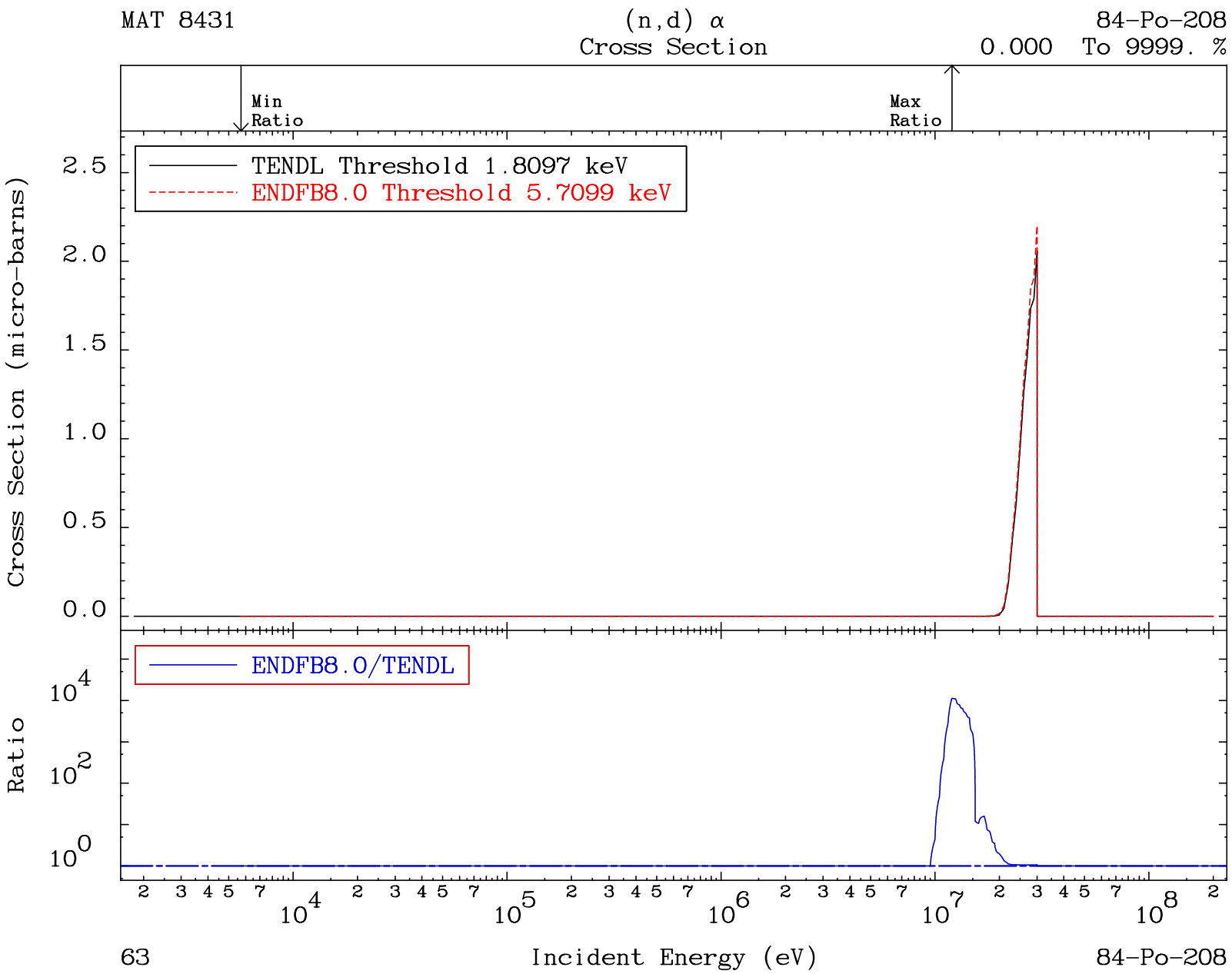

MAT 8431
(n,2α)
Cross Section
84-Po-208
0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8097 keV
ENDFB8.0 Threshold 5.7099 keV
Cross Section (10^-9 barns)
300
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
10^6
10^3
10^0
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
58
Incident Energy (eV)
84-Po-208

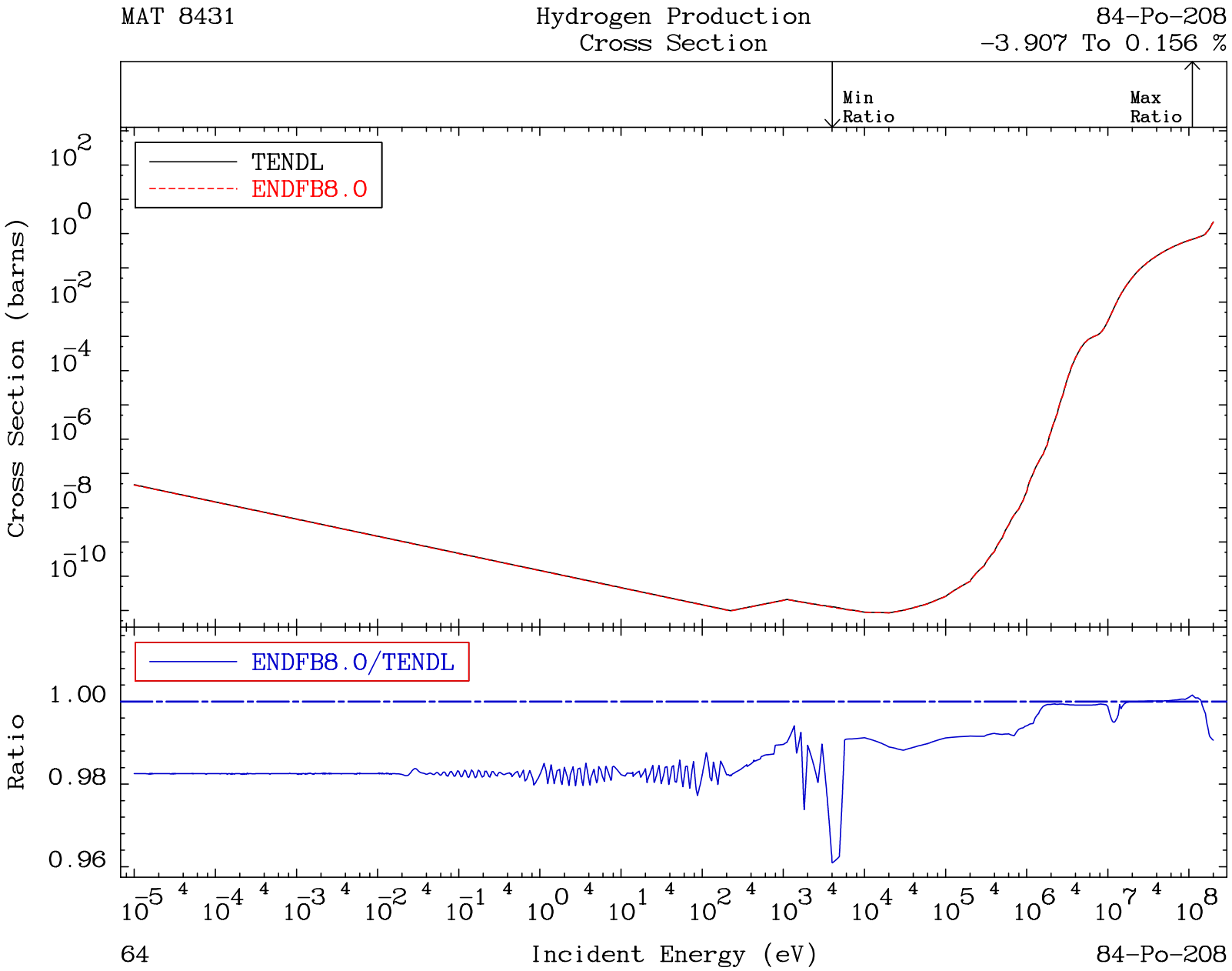

MAT 8431
(n,2p)
Cross Section
84-Po-208
-3.630 To 0.011 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.5316 MeV
ENDFB8.0 Threshold 1.5316 MeV
Cross Section (micro-barns)
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
1.00
0.98
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
59
Incident Energy (eV)
84-Po-208

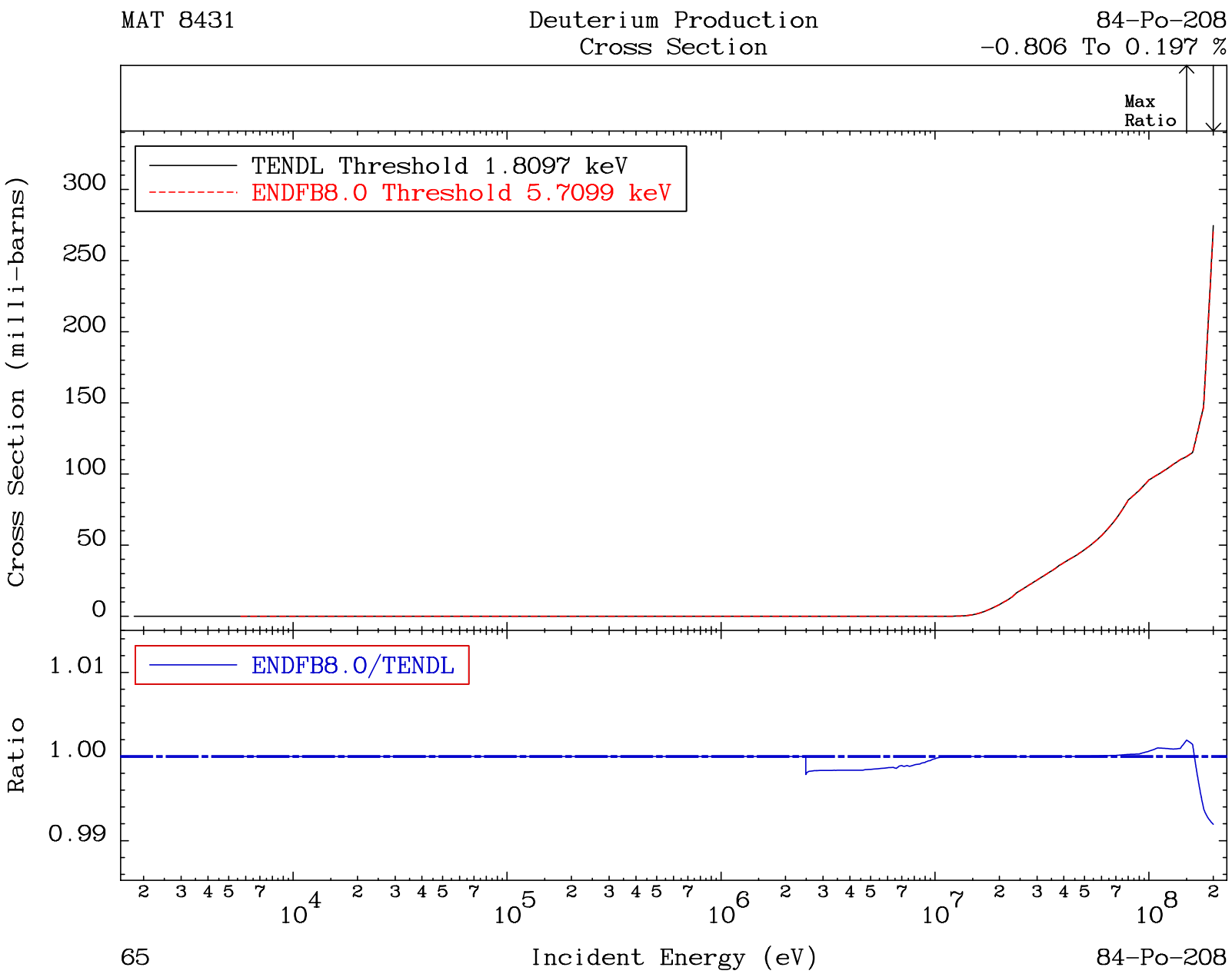

MAT 8431
(n,p) α
Cross Section
84-Po-208
0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8097 keV
ENDFB8.0 Threshold 5.7099 keV
Cross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
10^4
10^2
10^0
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
60
Incident Energy (eV)
84-Po-208

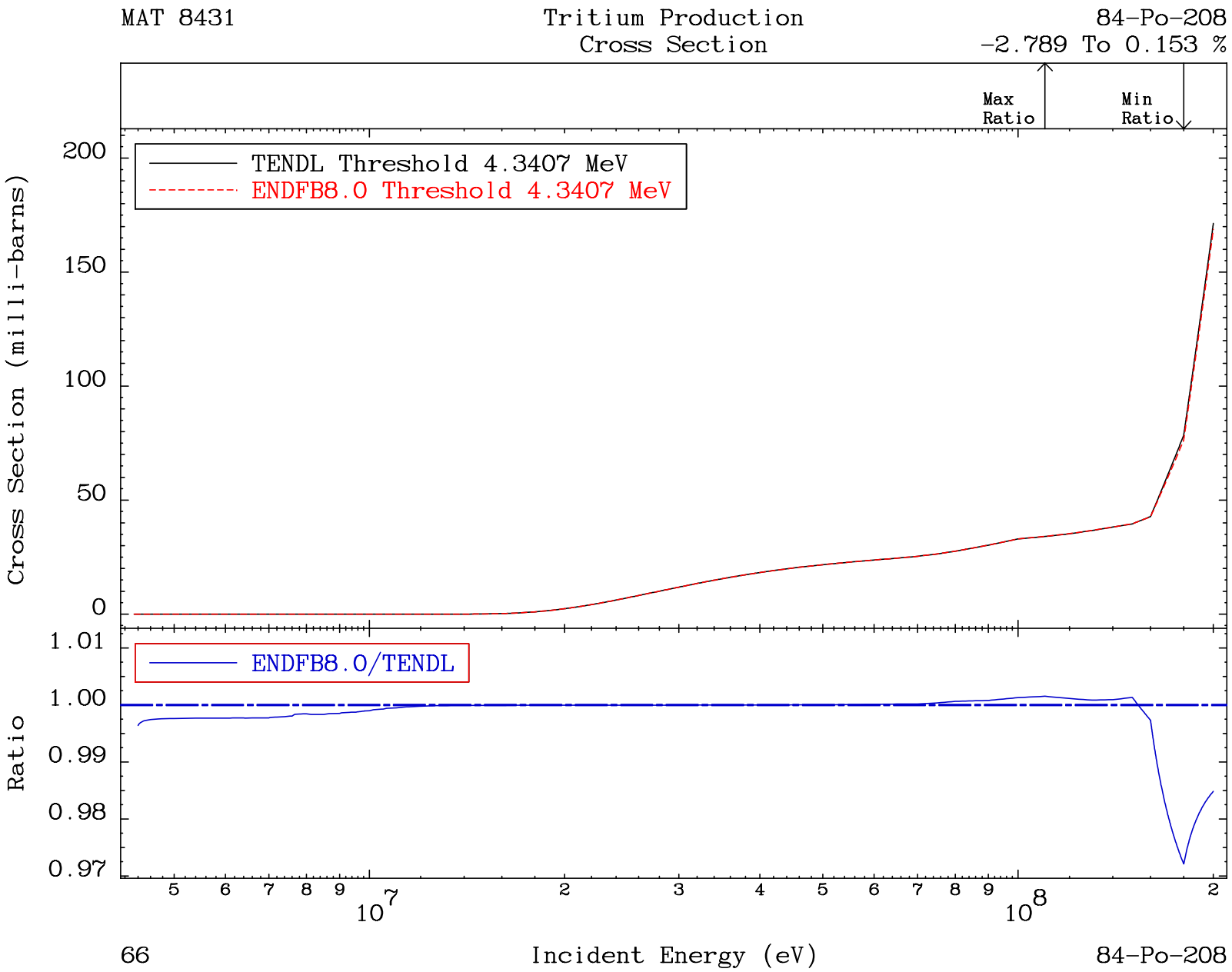

MAT 8431
(n,p) d
Cross Section
84-Po-208
-1.707 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 6.0667 MeV
ENDFB8.0 Threshold 6.0667 MeV
Cross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
1.00
0.99
0.98
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
61
Incident Energy (eV)
84-Po-208

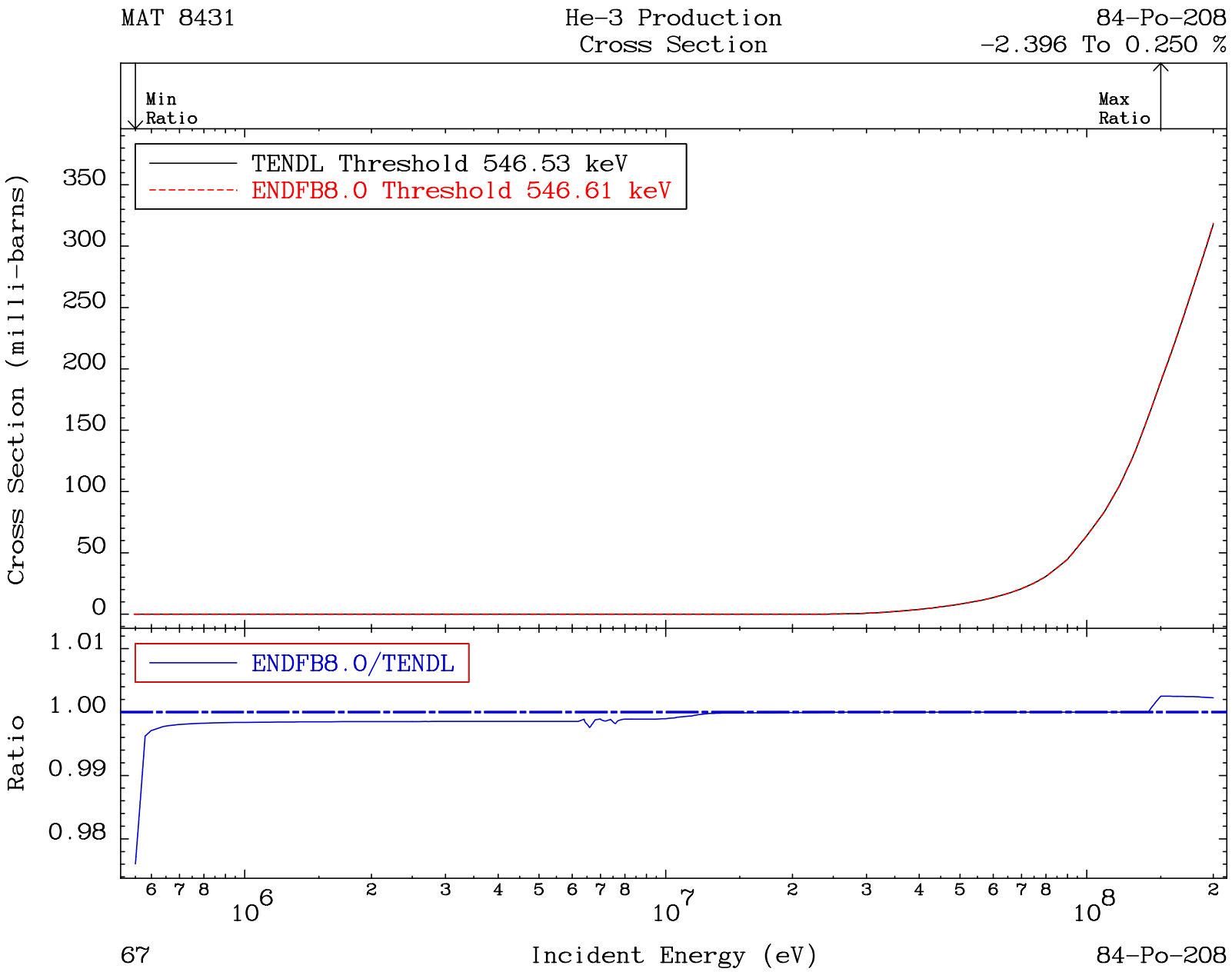

MAT 8431
(n,p) t
Cross Section
84-Po-208
-1.690 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 7.9050 MeV
ENDFB8.0 Threshold 7.9050 MeV
Cross Section (10^{-9} barns)
700
600
500
400
300
200
100
0
ENDFB8.0/TENDL
Ratio
1.00
0.99
0.98
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
62
Incident Energy (eV)
84-Po-208

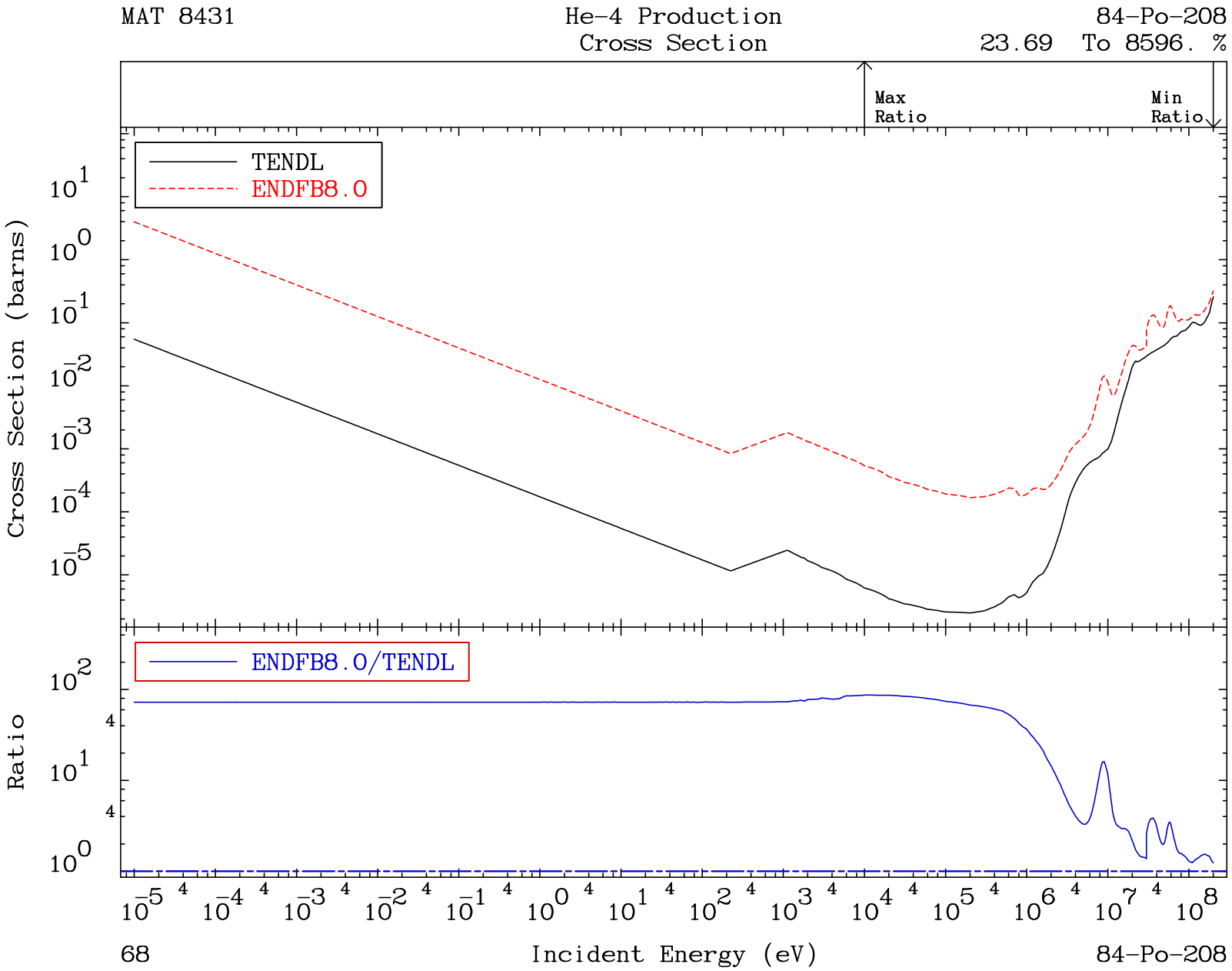

MAT 8431
(n,d) α
Cross Section
84-Po-208
0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8097 keV
ENDFB8.0 Threshold 5.7099 keV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
10^4
10^2
10^0
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
63
Incident Energy (eV)
84-Po-208

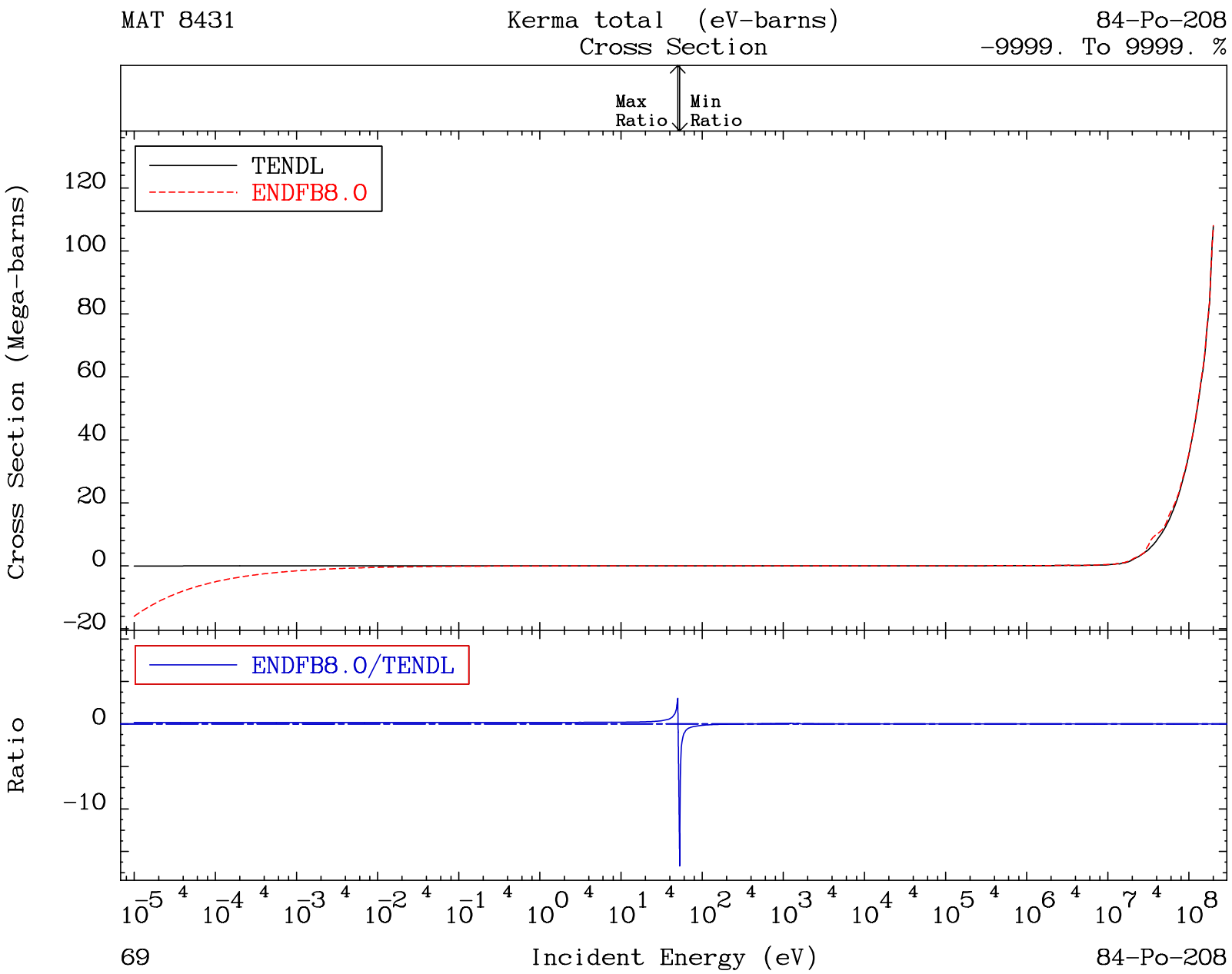

MAT 8431
Hydrogen Production
Cross Section
84-Po-208
-3.907 To 0.156 %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
64
84-Po-208

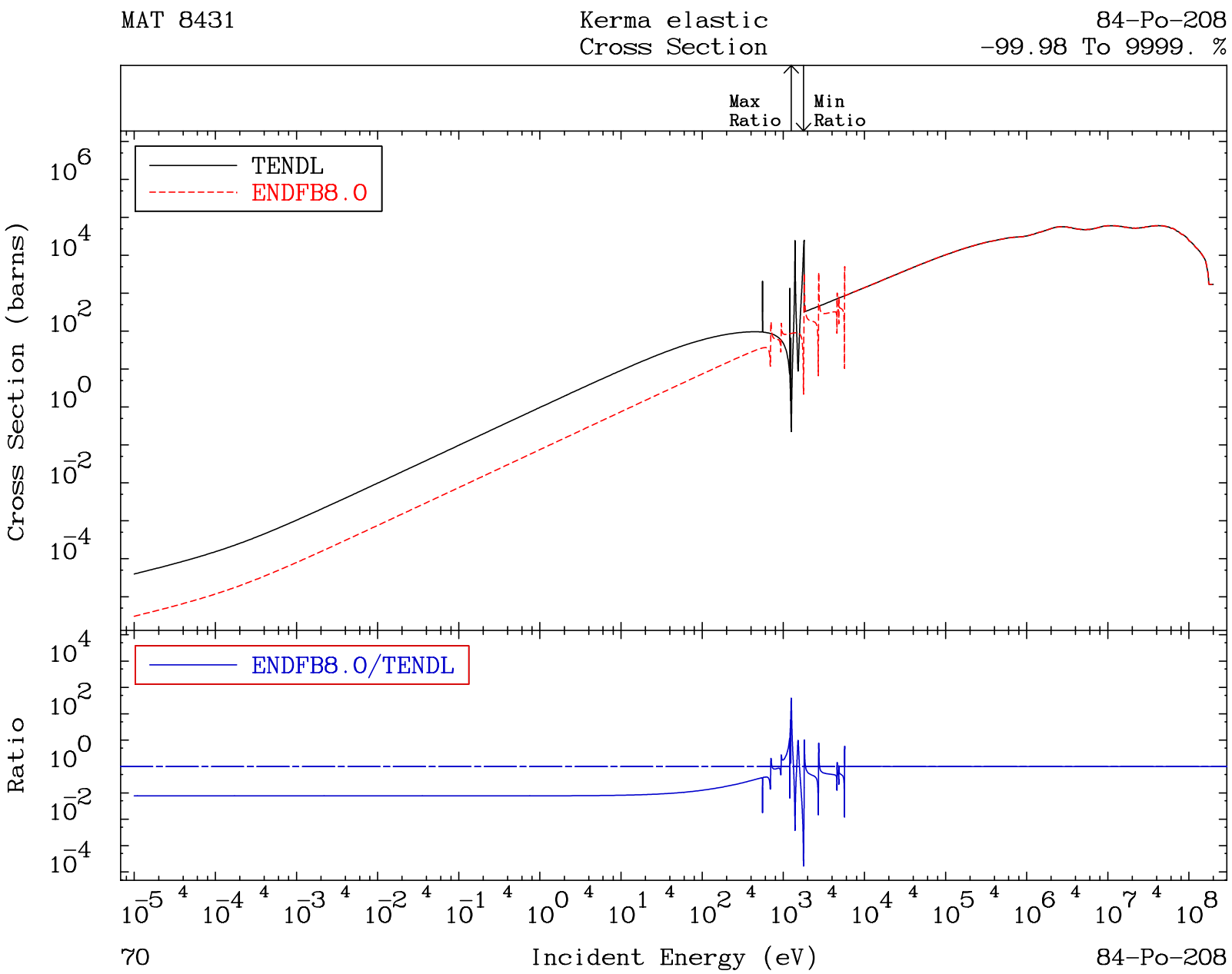

MAT 8431
Deuterium Production
Cross Section
84-Po-208
-0.806 To 0.197 %
Max
Ratio
TENDL Threshold 1.8097 keV
ENDFB8.0 Threshold 5.7099 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
65
Incident Energy (eV)
84-Po-208

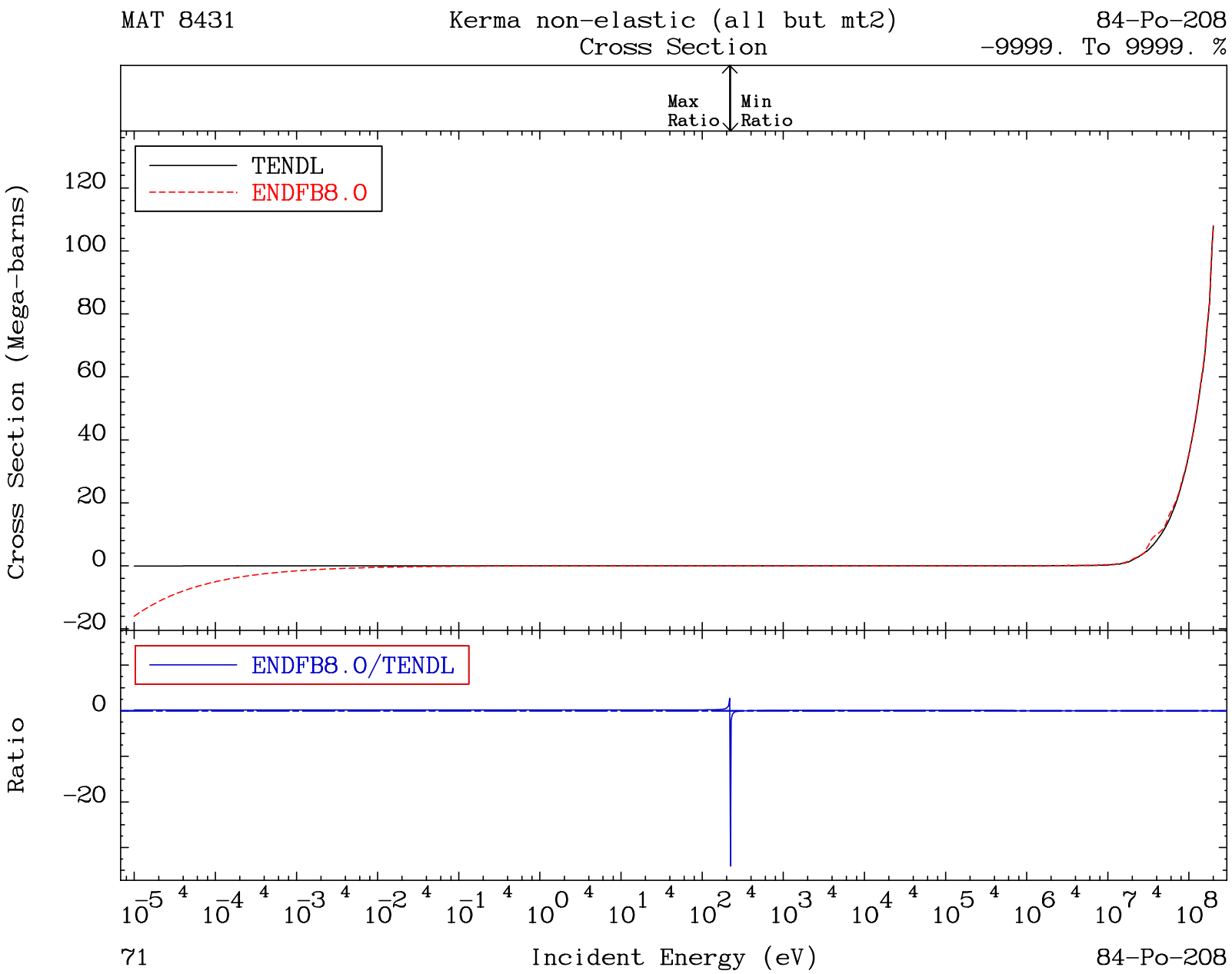

MAT 8431
Tritium Production
Cross Section
84-Po-208
-2.789 To 0.153 %
Max Ratio
Min Ratio
TENDL Threshold 4.3407 MeV
ENDFB8.0 Threshold 4.3407 MeV
Cross Section (milli-barns)
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
0.98
0.97
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
66
Incident Energy (eV)
84-Po-208

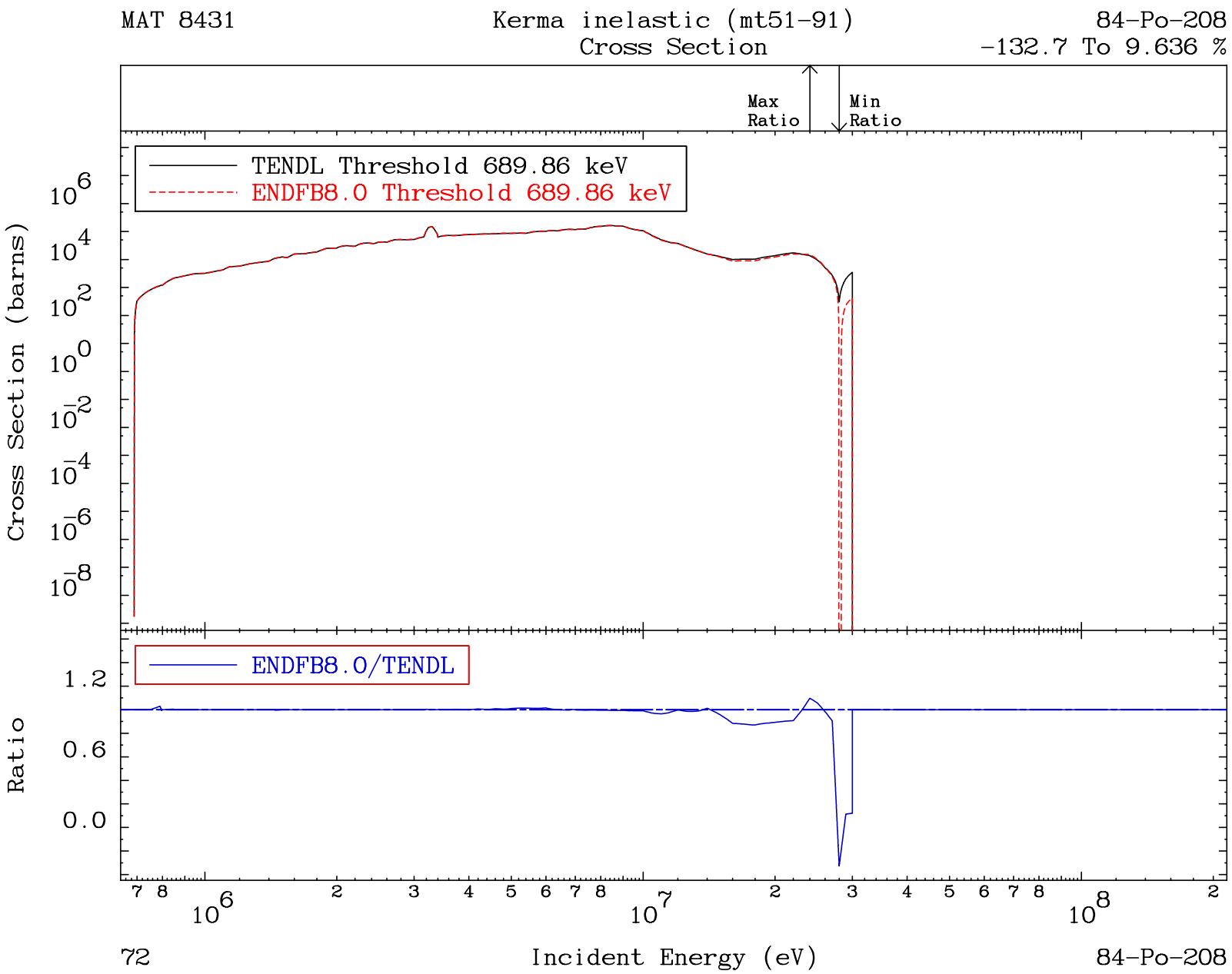

MAT 8431
He-3 Production
Cross Section
84-Po-208
-2.396 To 0.250 %
Min
Ratio
Max
Ratio
TENDL Threshold 546.53 keV
ENDFB8.0 Threshold 546.61 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
0.98
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
67
Incident Energy (eV)
84-Po-208

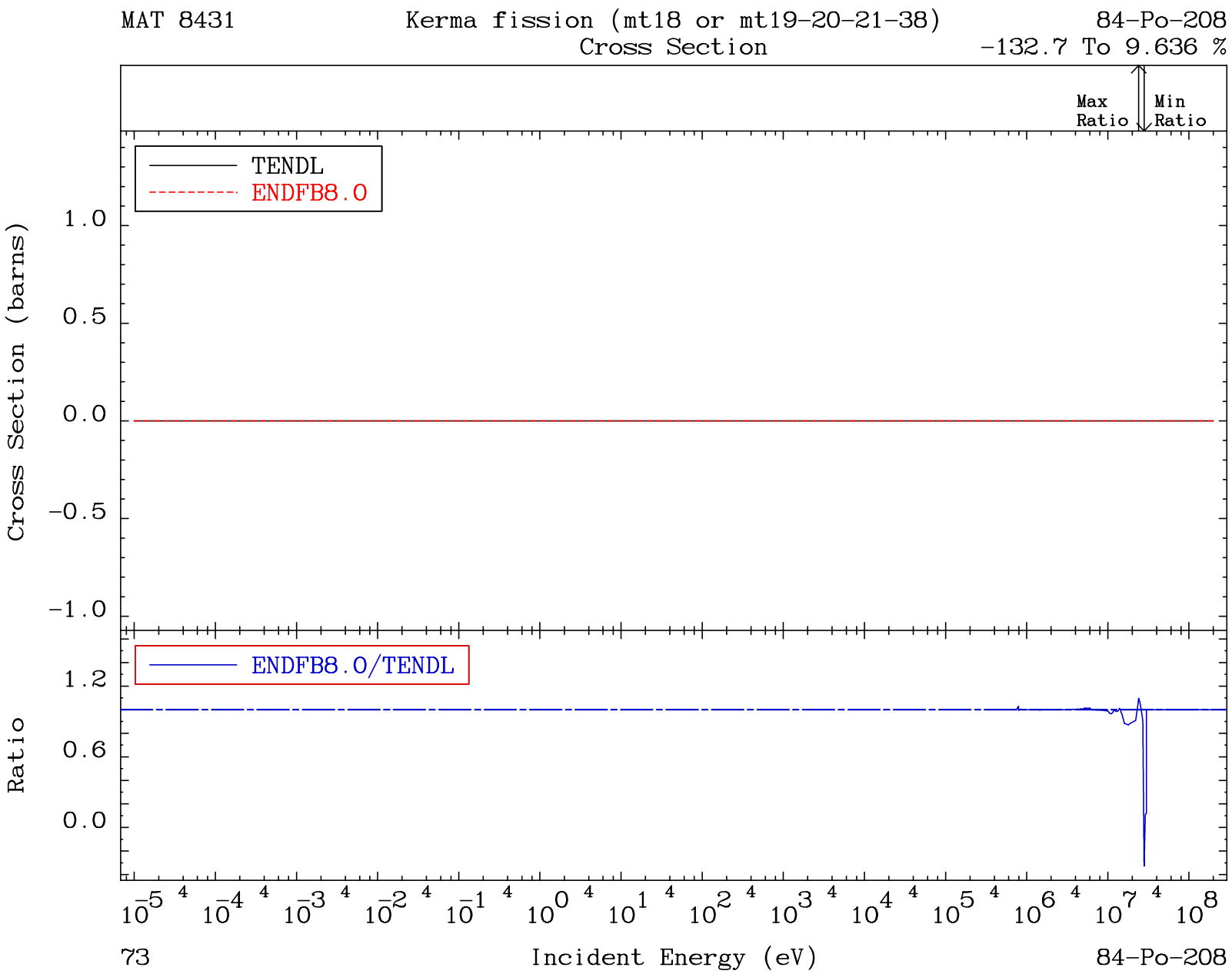

MAT 8431
He-4 Production
Cross Section
84-Po-208
23.69 To 8596. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
68
84-Po-208

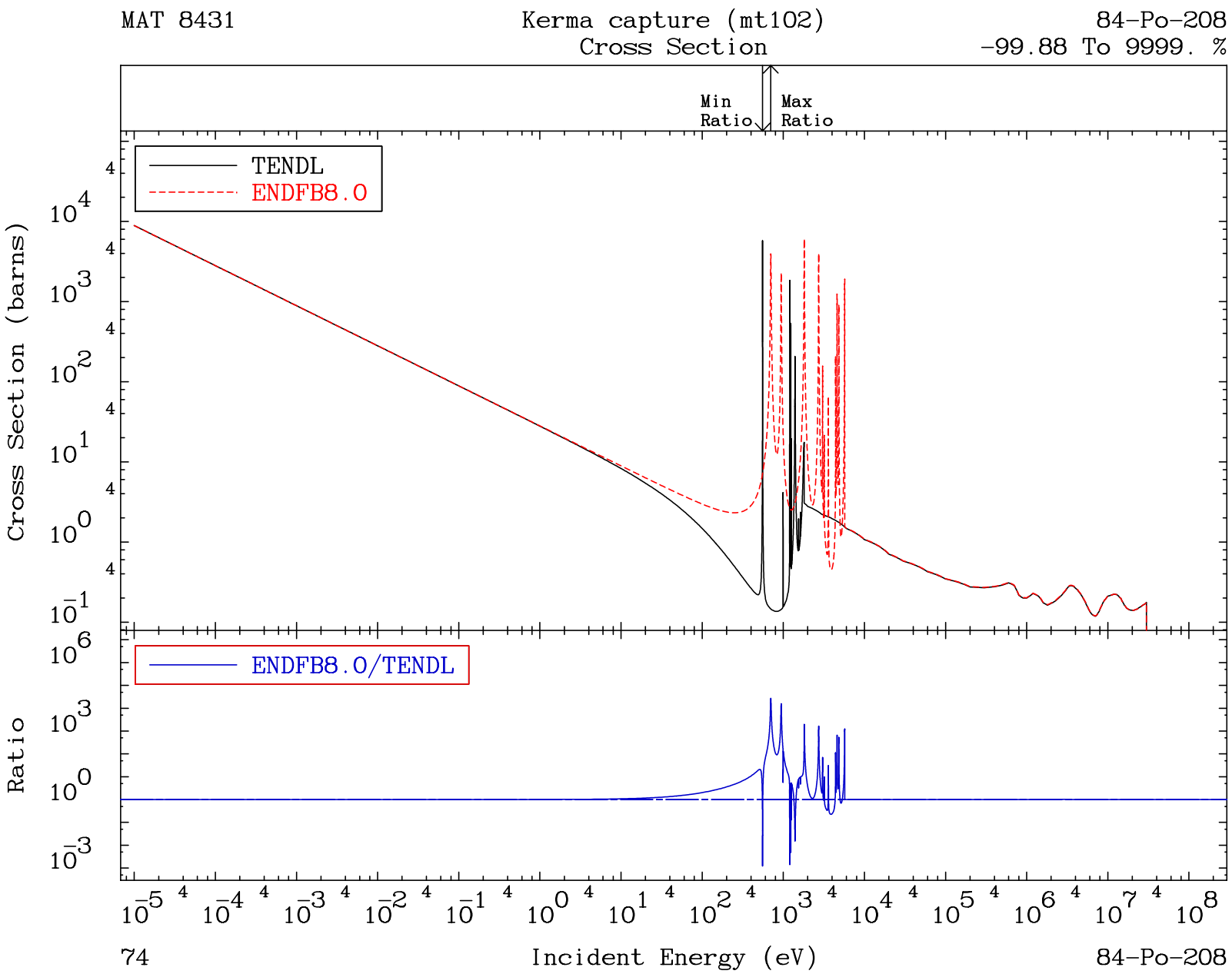

MAT 8431
Kerma total (eV-barns)
Cross Section
84-Po-208
-9999. To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (Mega-barns)
120
100
80
60
40
20
0
-20
ENDFB8.0/TENDL
Ratio
0
-10
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
69
Incident Energy (eV)
84-Po-208

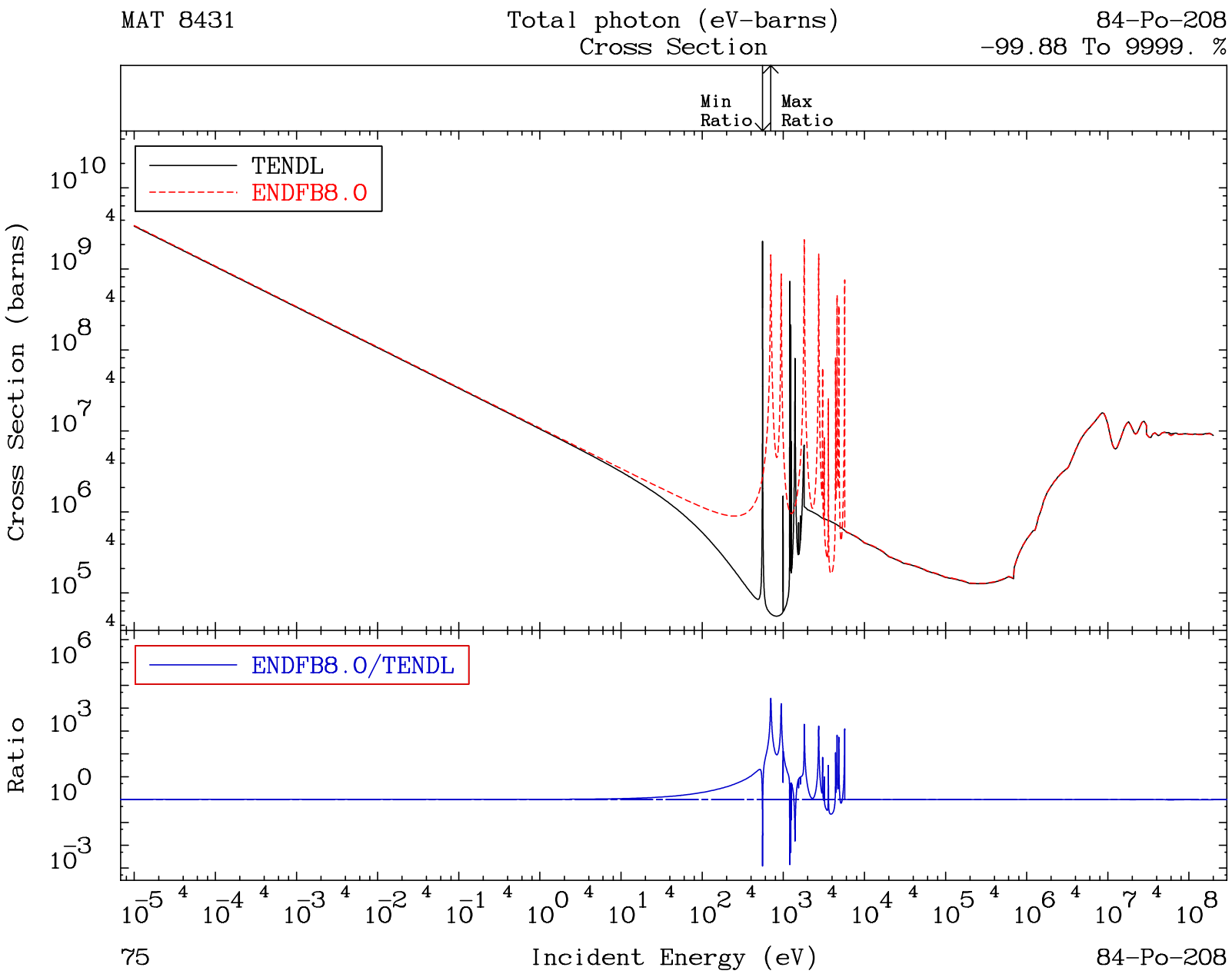

MAT 8431
Kerma elastic
Cross Section
84-Po-208
-99.98 To 9999. %
Max
Ratio
Min
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
70
84-Po-208

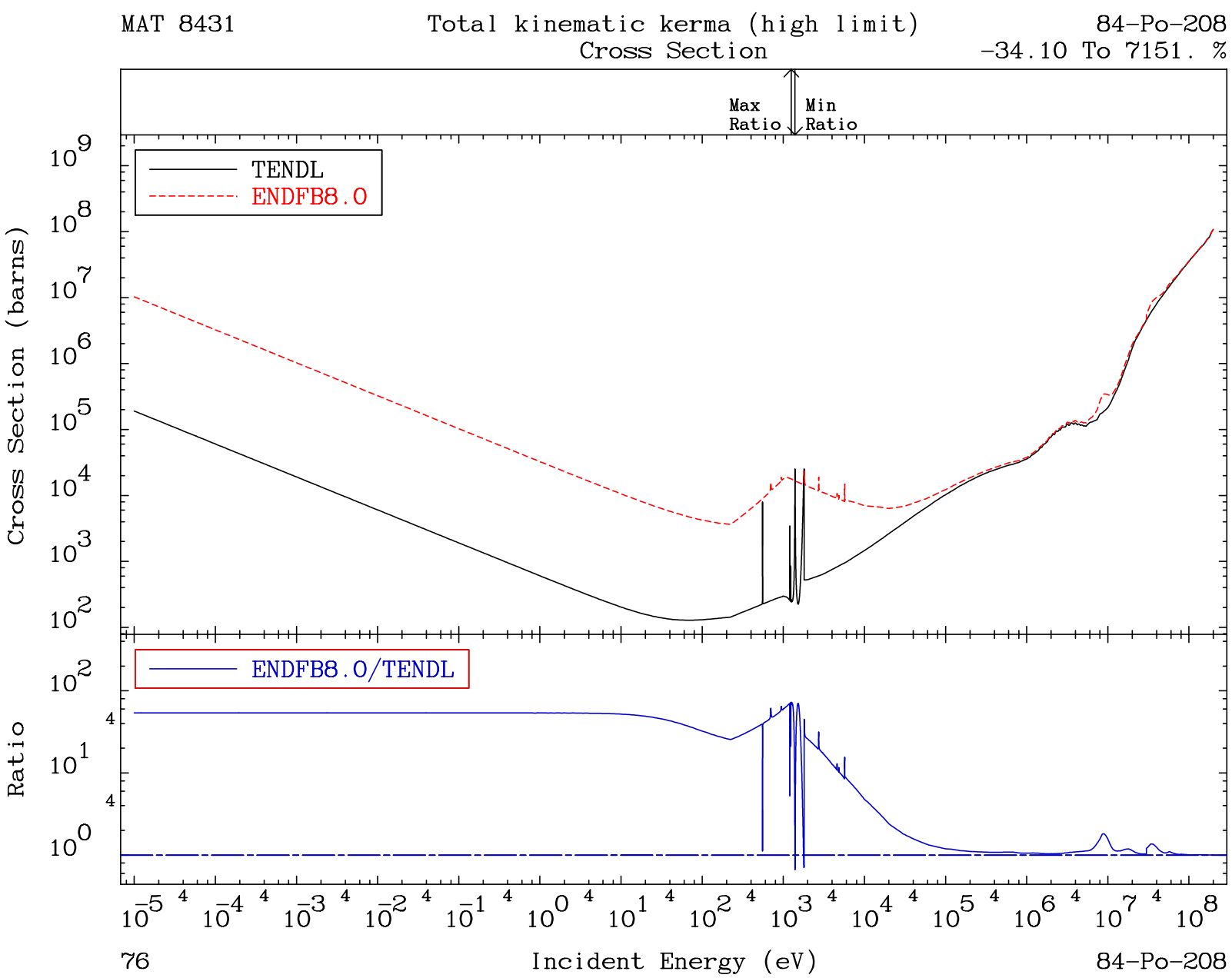

MAT 8431
Kerma non-elastic (all but mt2)
Cross Section
84-Po-208
-9999. To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (Mega-barns)
120
100
80
60
40
20
0
-20
ENDFB8.0/TENDL
Ratio
0
-20
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
71
Incident Energy (eV)
84-Po-208

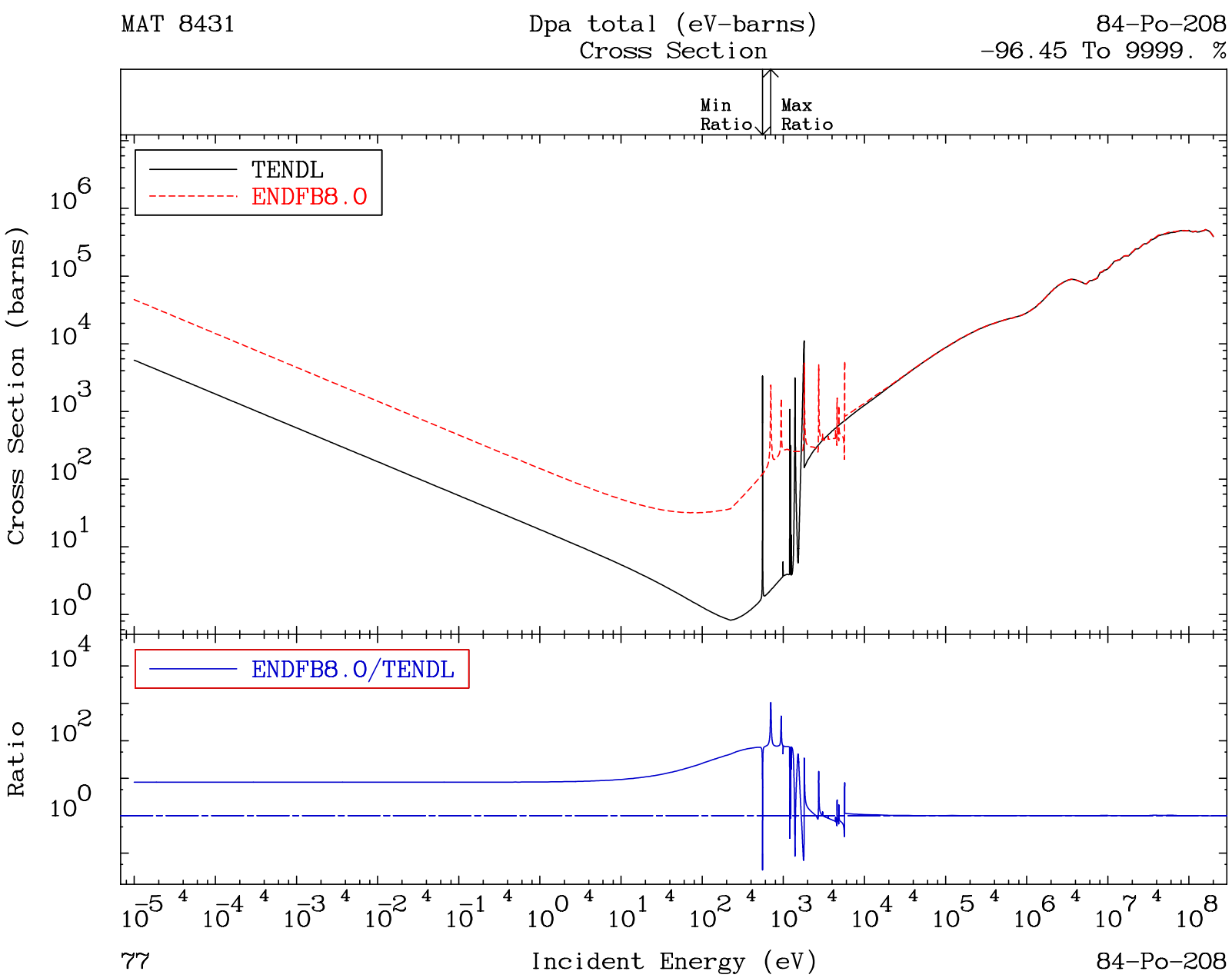

MAT 8431
Kerma inelastic (mt51-91)
Cross Section
84-Po-208
-132.7 To 9.636 %
Max Ratio
Min Ratio
TENDL Threshold 689.86 keV
ENDFB8.0 Threshold 689.86 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
72
84-Po-208

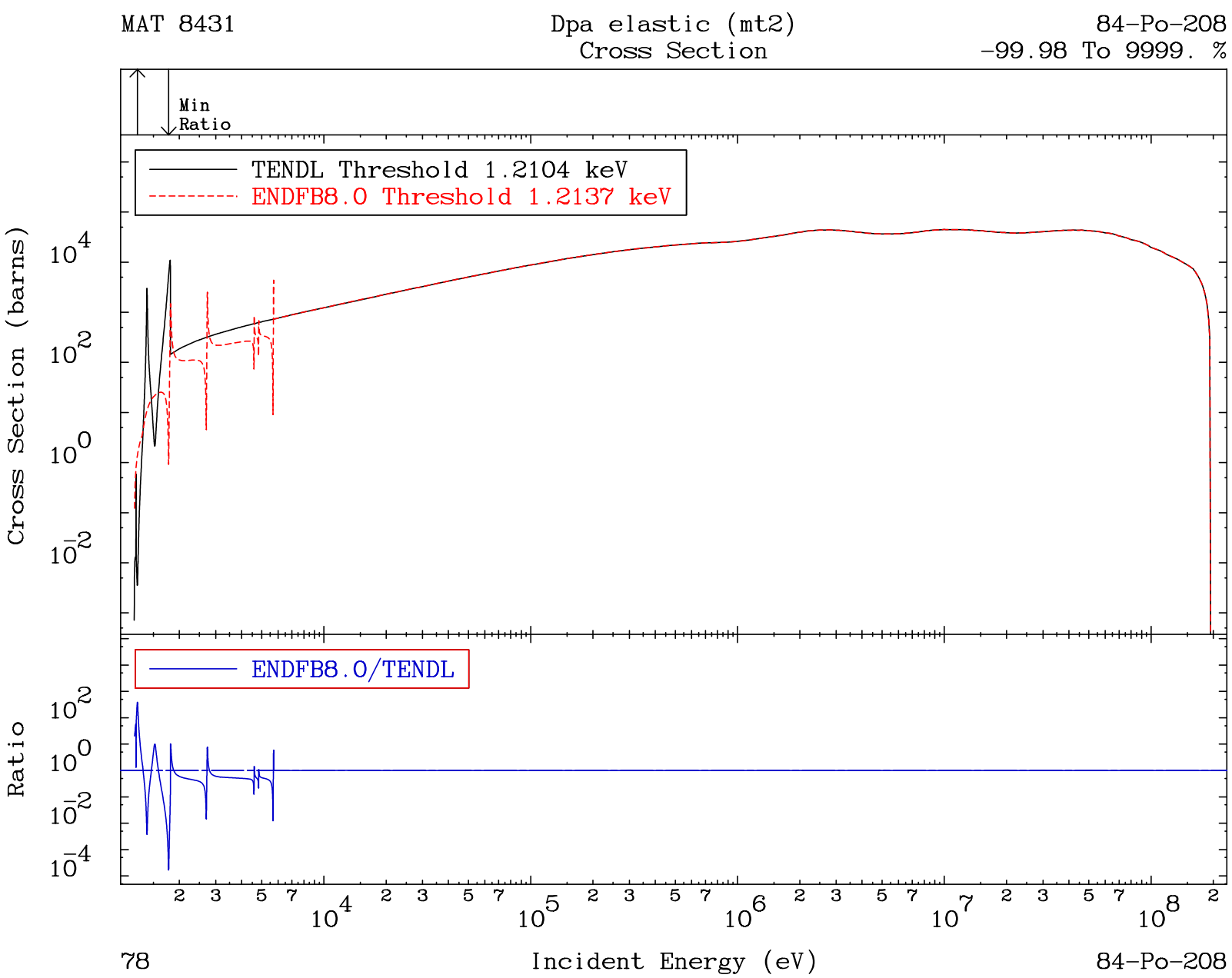

MAT 8431
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
84-Po-208
-132.7 To 9.636 %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
ENDFB8.0/TENDL
Ratio
1.2
0.6
0.0
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
73
Incident Energy (eV)
84-Po-208

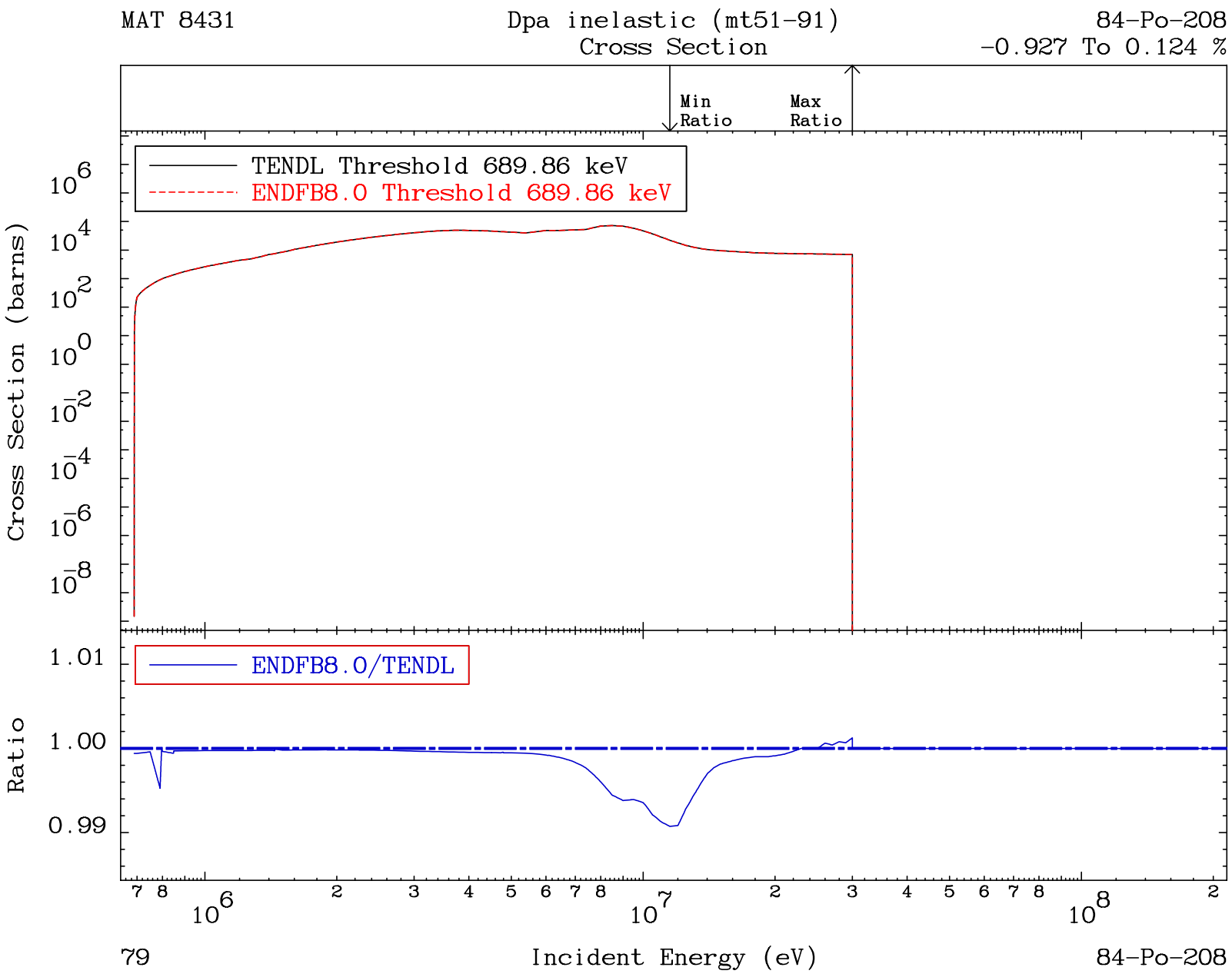

MAT 8431
Kerma capture (mt102)
Cross Section
84-Po-208
-99.88 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
74
84-Po-208

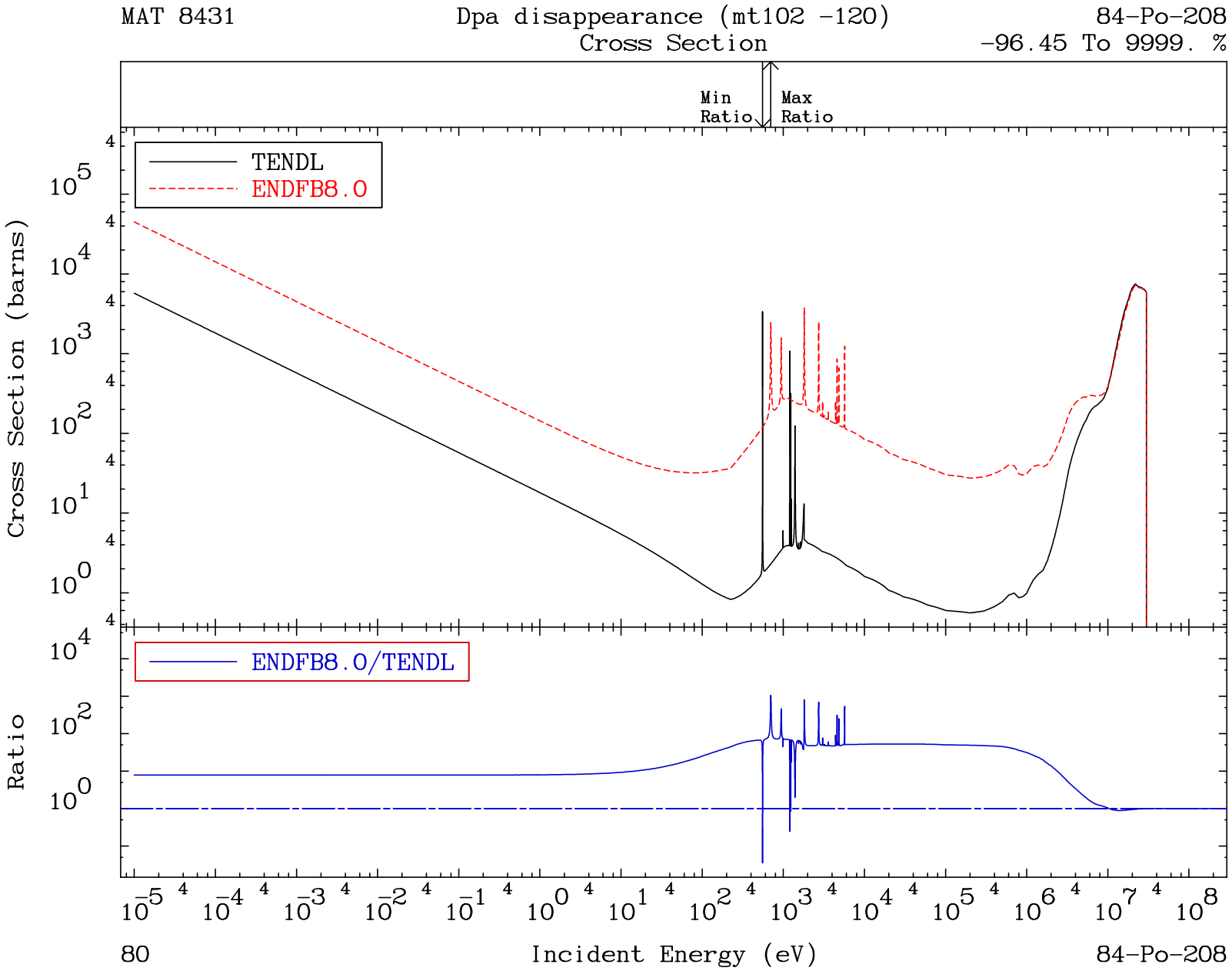

MAT 8431
Total photon (eV-barns)
Cross Section
84-Po-208
-99.88 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
75
84-Po-208

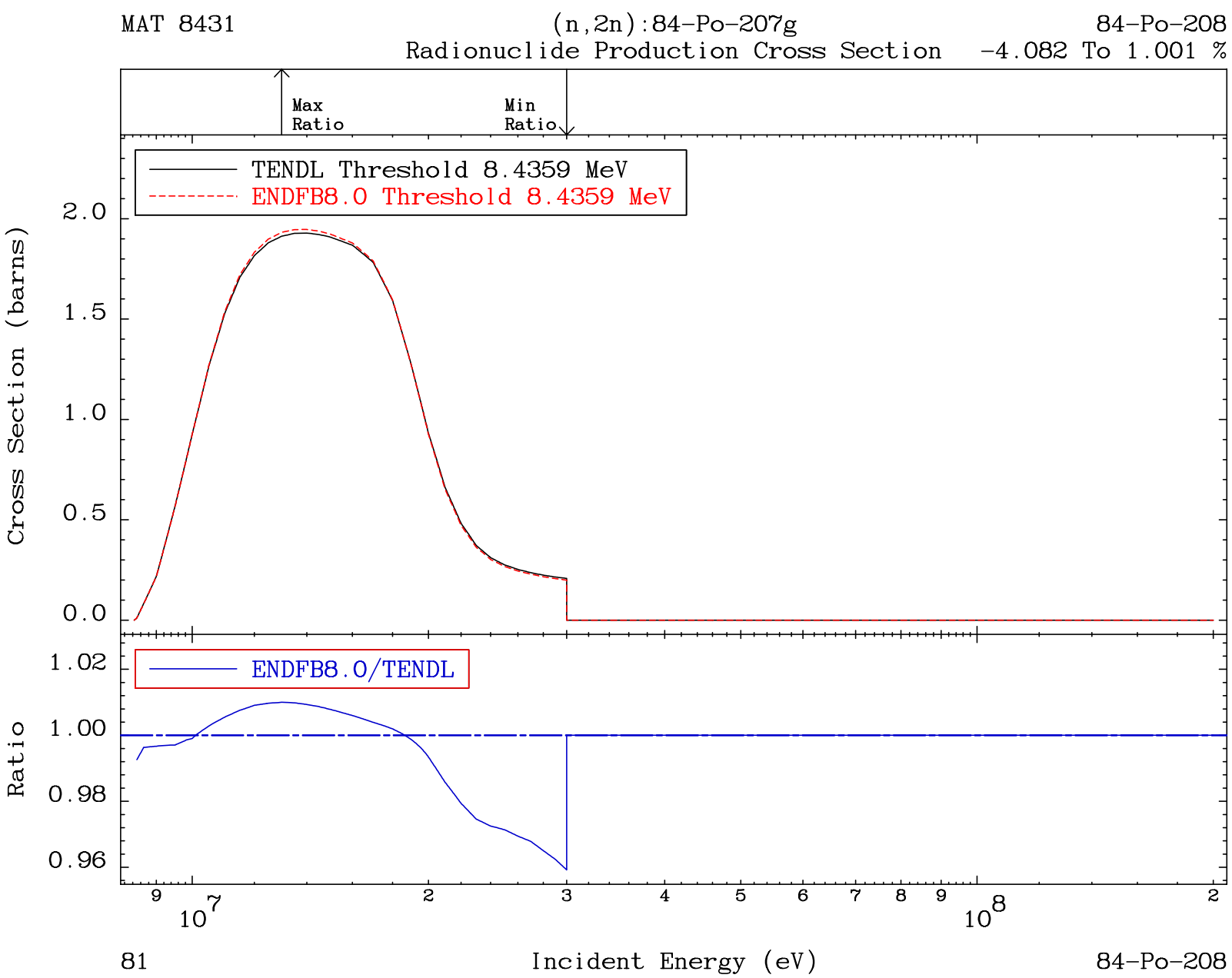

MAT 8431
Total kinematic kerma (high limit)
Cross Section
84-Po-208
-34.10 To 7151. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
76
84-Po-208

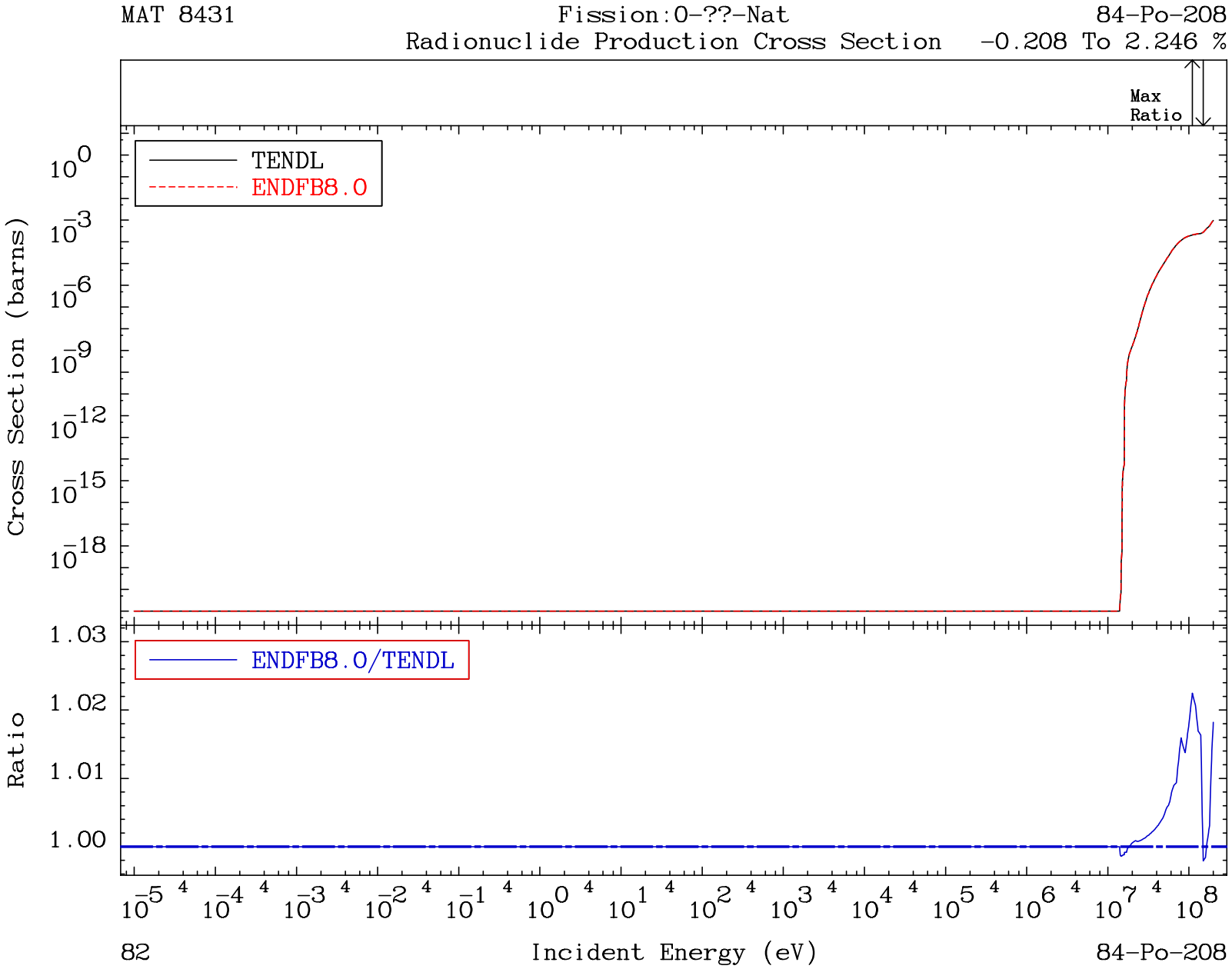

MAT 8431
Dpa total (eV-barns)
Cross Section
84-Po-208
-96.45 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
77
84-Po-208

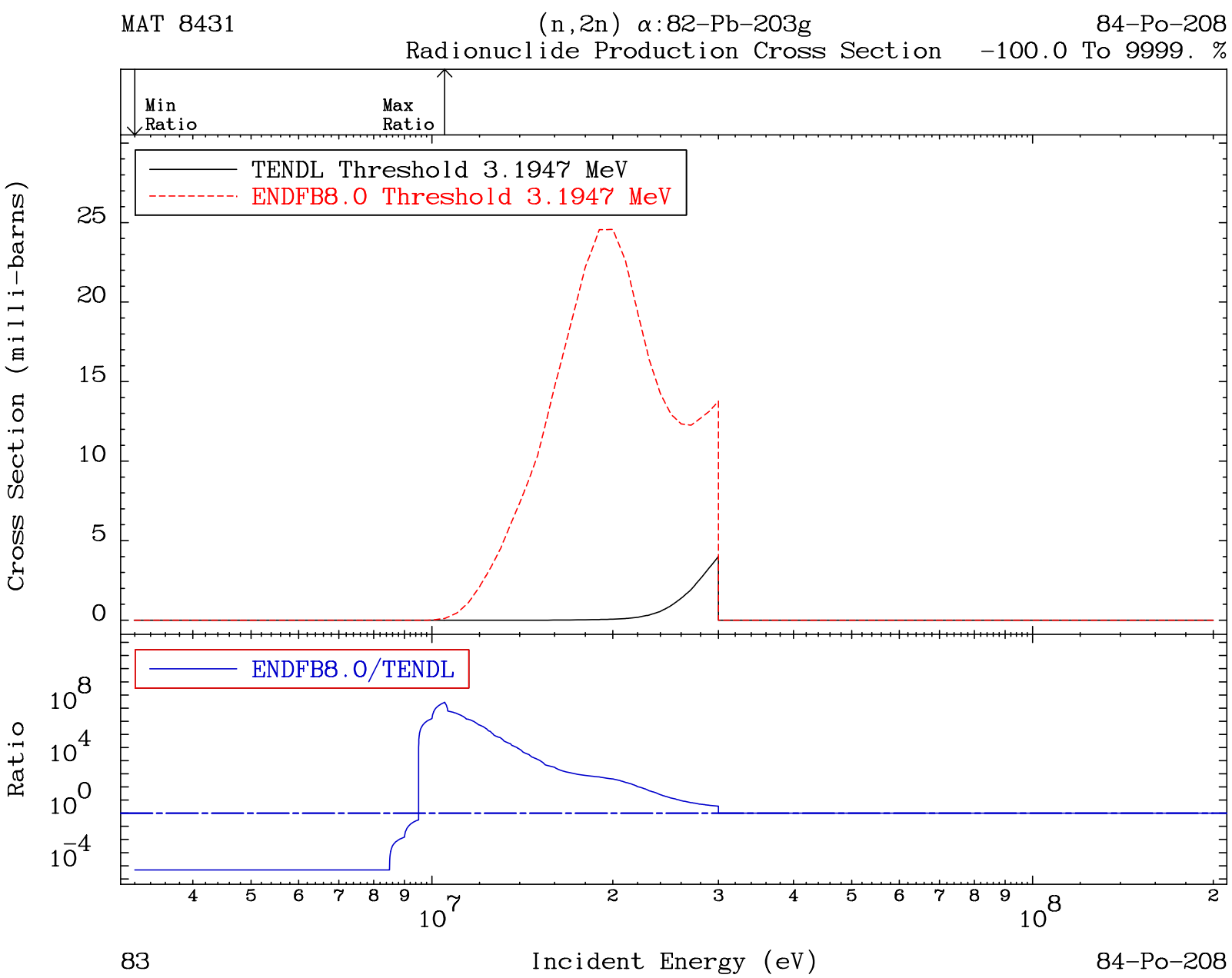

MAT 8431
Dpa elastic (mt2)
Cross Section
84-Po-208
-99.98 To 9999. %
Min
Ratio
TENDL Threshold 1.2104 keV
ENDFB8.0 Threshold 1.2137 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
78
84-Po-208

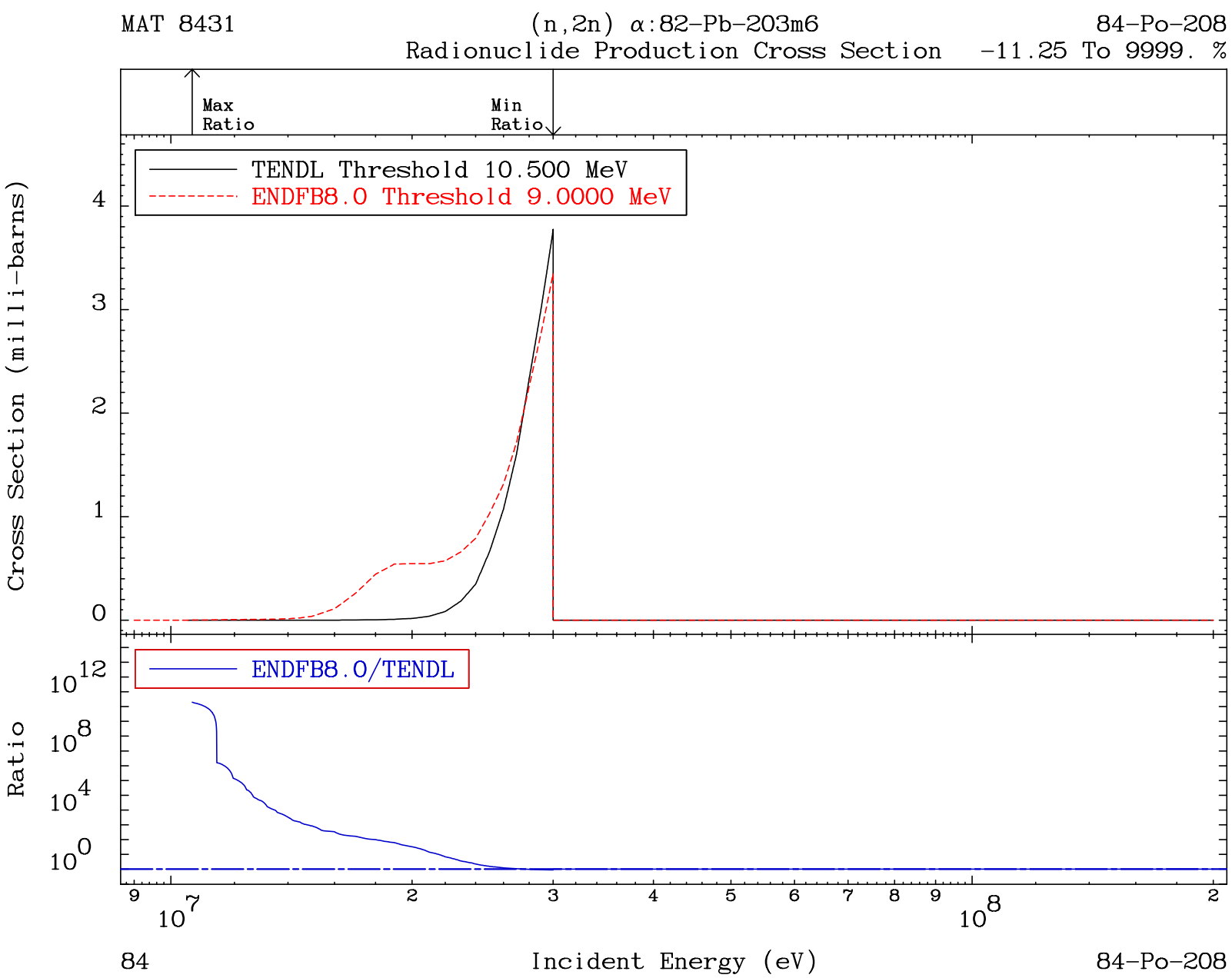

MAT 8431
Dpa inelastic (mt51-91)
Cross Section
84-Po-208
-0.927 To 0.124 %
Min Ratio
Max Ratio
TENDL Threshold 689.86 keV
ENDFB8.0 Threshold 689.86 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
79
84-Po-208

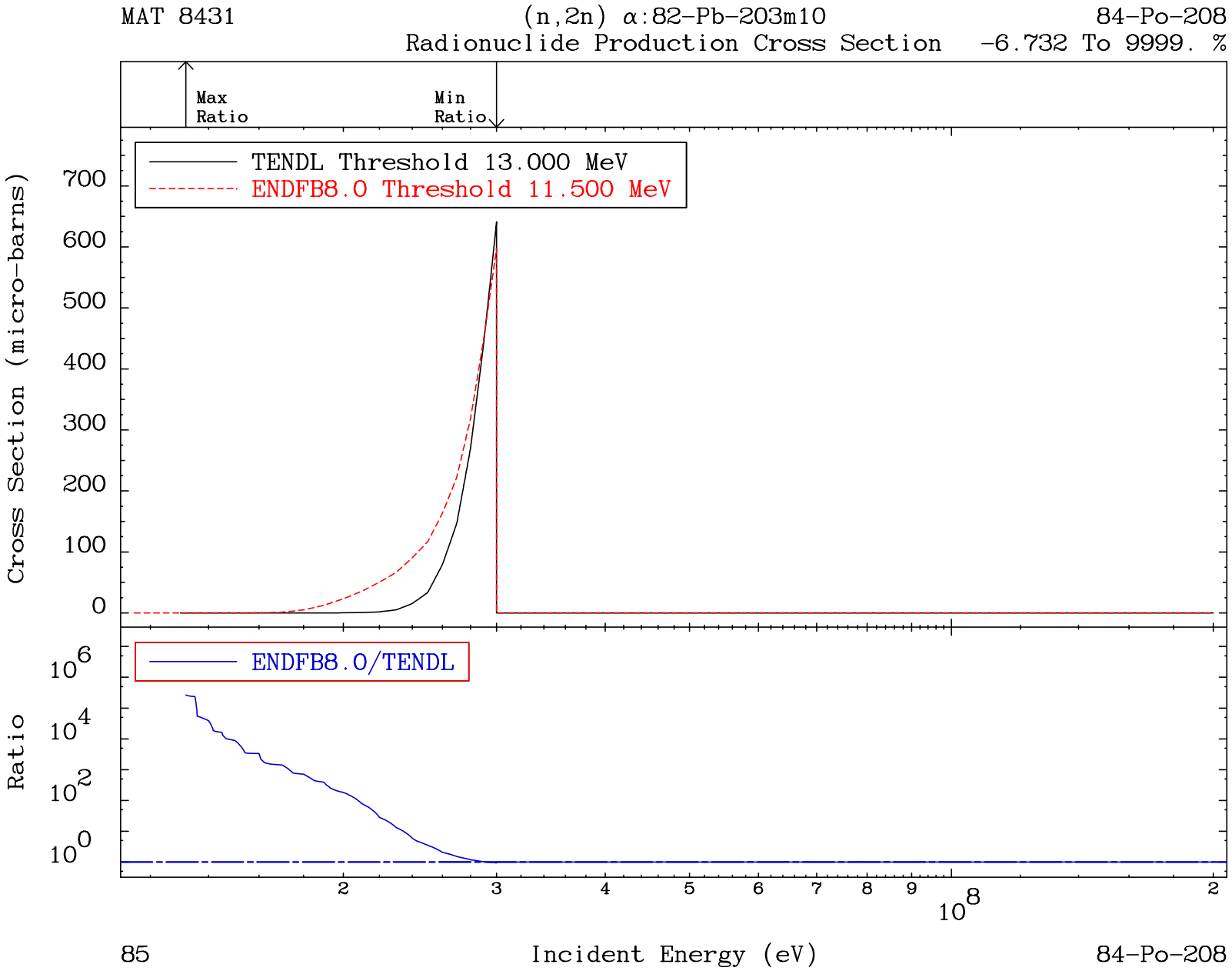

MAT 8431
Dpa disappearance (mt102 -120)
Cross Section
84-Po-208
-96.45 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
80
84-Po-208

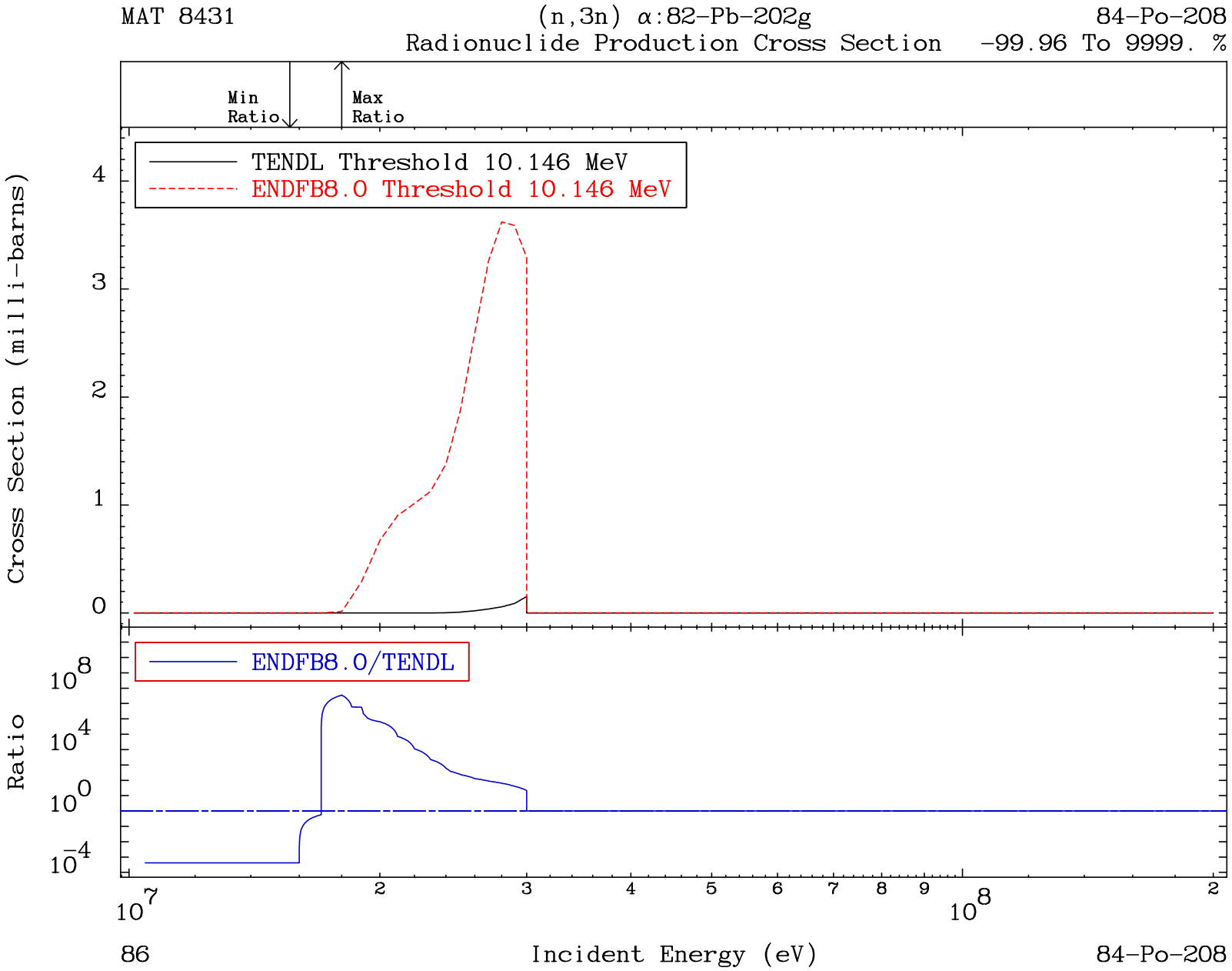

MAT 8431
(n,2n):84-Po-207g
84-Po-208
Radionuclide Production Cross Section -4.082 To 1.001 %
Max Ratio
Min Ratio
TENDL Threshold 8.4359 MeV
ENDFB8.0 Threshold 8.4359 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
1.02
1.00
0.98
0.96
9
10^7
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
84-Po-208

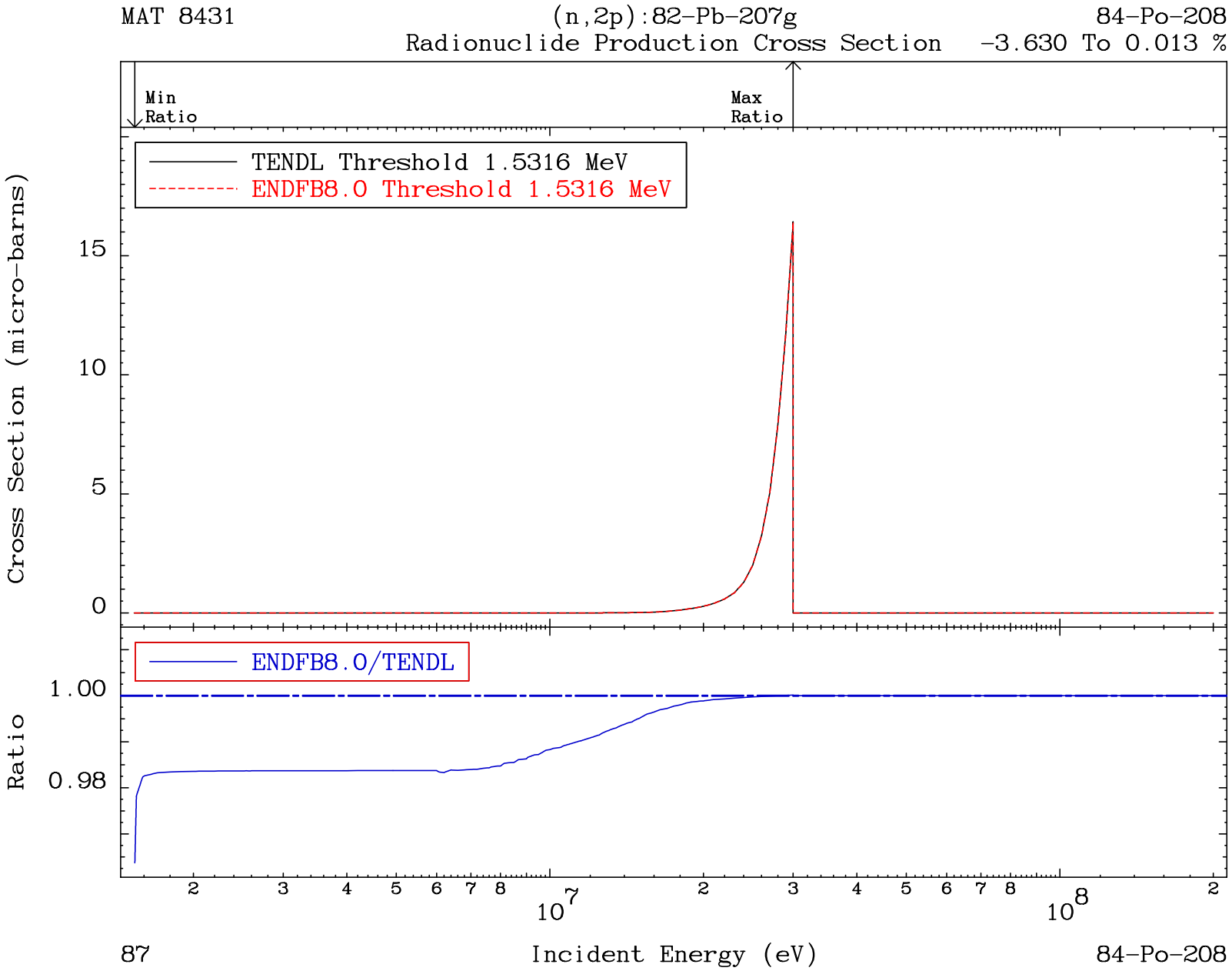

MAT 8431
Fission:0-??-Nat
84-Po-208
Radionuclide Production Cross Section
-0.208 To 2.246 %
Max
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
10^0
10^-3
10^-6
10^-9
10^-12
10^-15
10^-18
ENDFB8.0/TENDL
Ratio
1.03
1.02
1.01
1.00
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
82
Incident Energy (eV)
84-Po-208

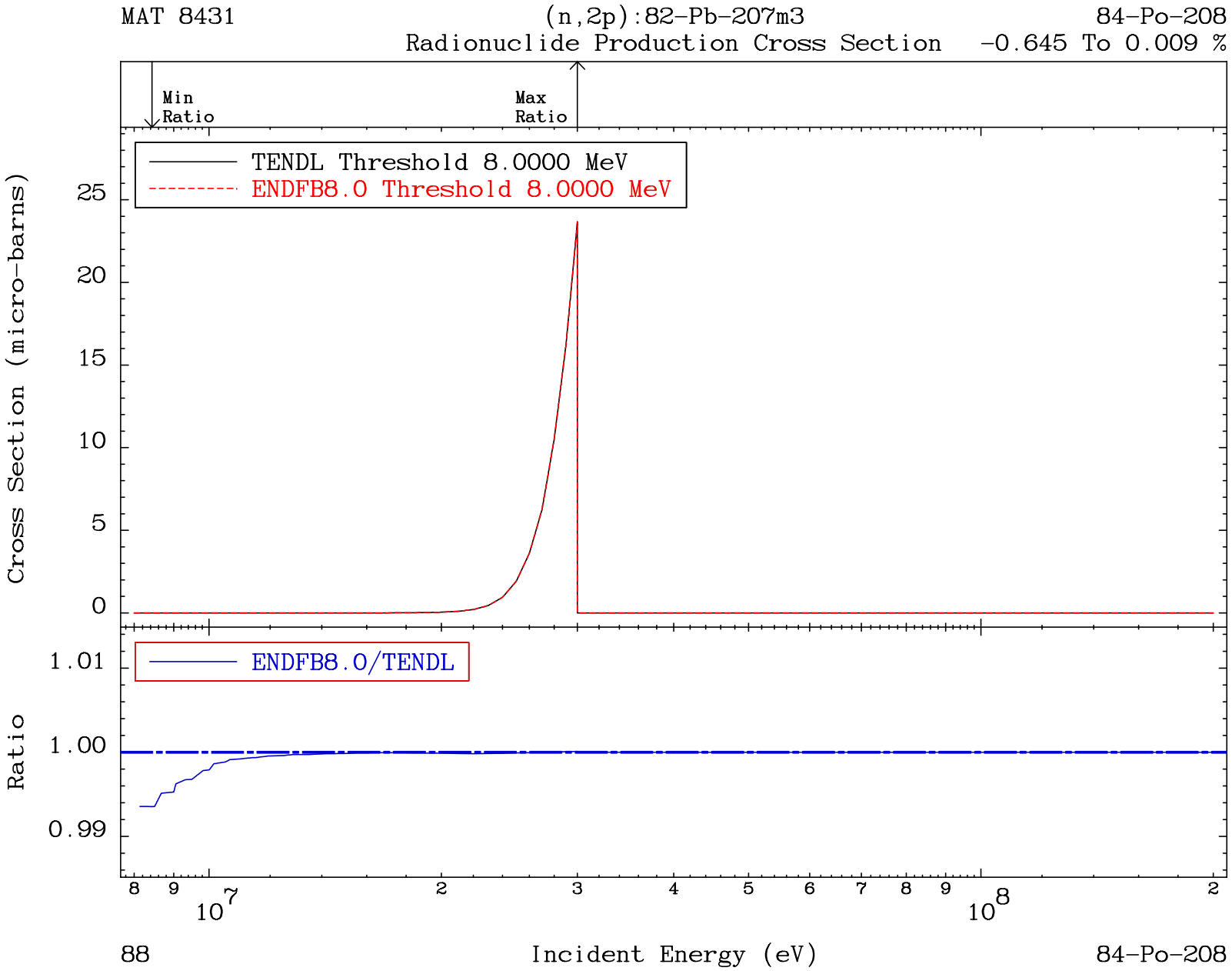

MAT 8431
(n,2n) α:82-Pb-203g
84-Po-208
Radionuclide Production Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.1947 MeV
ENDFB8.0 Threshold 3.1947 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
10^8
10^4
10^0
10^-4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
83
Incident Energy (eV)
84-Po-208


MAT 8431
(n,2n) α:82-Pb-203m6
84-Po-208
Radionuclide Production Cross Section -11.25 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.500 MeV
ENDFB8.0 Threshold 9.0000 MeV
Cross Section (milli-barns)
0
1
2
3
4
ENDFB8.0/TENDL
Ratio
10^12
10^8
10^4
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
84-Po-208


MAT 8431
(n,2n) α:82-Pb-203m10
84-Po-208
Radionuclide Production Cross Section -6.732 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.000 MeV
ENDFB8.0 Threshold 11.500 MeV
Cross Section (micro-barns)
700
600
500
400
300
200
100
0
ENDFB8.0/TENDL
Ratio
10^6
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
84-Po-208


MAT 8431
(n,3n) α:82-Pb-202g
84-Po-208
Radionuclide Production Cross Section -99.96 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.146 MeV
ENDFB8.0 Threshold 10.146 MeV
Cross Section (milli-barns)
0
1
2
3
4
ENDFB8.0/TENDL
Ratio
10^8
10^4
10^0
10^-4
10^7
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
84-Po-208


MAT 8431
(n,2p):82-Pb-207g
84-Po-208
Radionuclide Production Cross Section
-3.630 To 0.013 %
Min Ratio
Max Ratio
TENDL Threshold 1.5316 MeV
ENDFB8.0 Threshold 1.5316 MeV
Cross Section (micro-barns)
15
10
5
0
ENDFB8.0/TENDL
Ratio
1.00
0.98
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
87
Incident Energy (eV)
84-Po-208


MAT 8431
(n,2p):82-Pb-207m3
84-Po-208
Radionuclide Production Cross Section -0.645 To 0.009 %
Min Ratio
Max Ratio
TENDL Threshold 8.0000 MeV
ENDFB8.0 Threshold 8.0000 MeV
Cross Section (micro-barns)
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
1.01
1.00
0.99
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
88
Incident Energy (eV)
84-Po-208