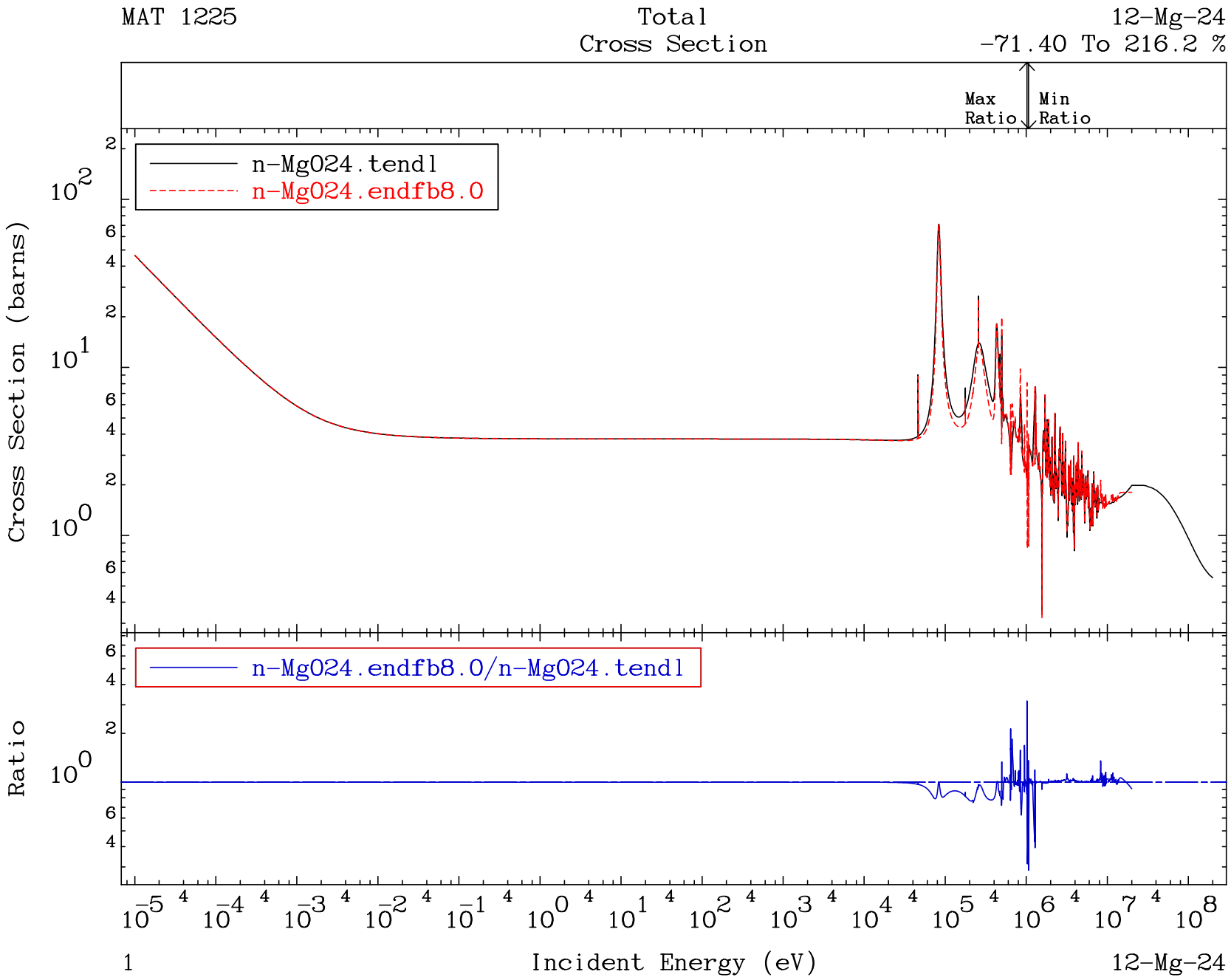
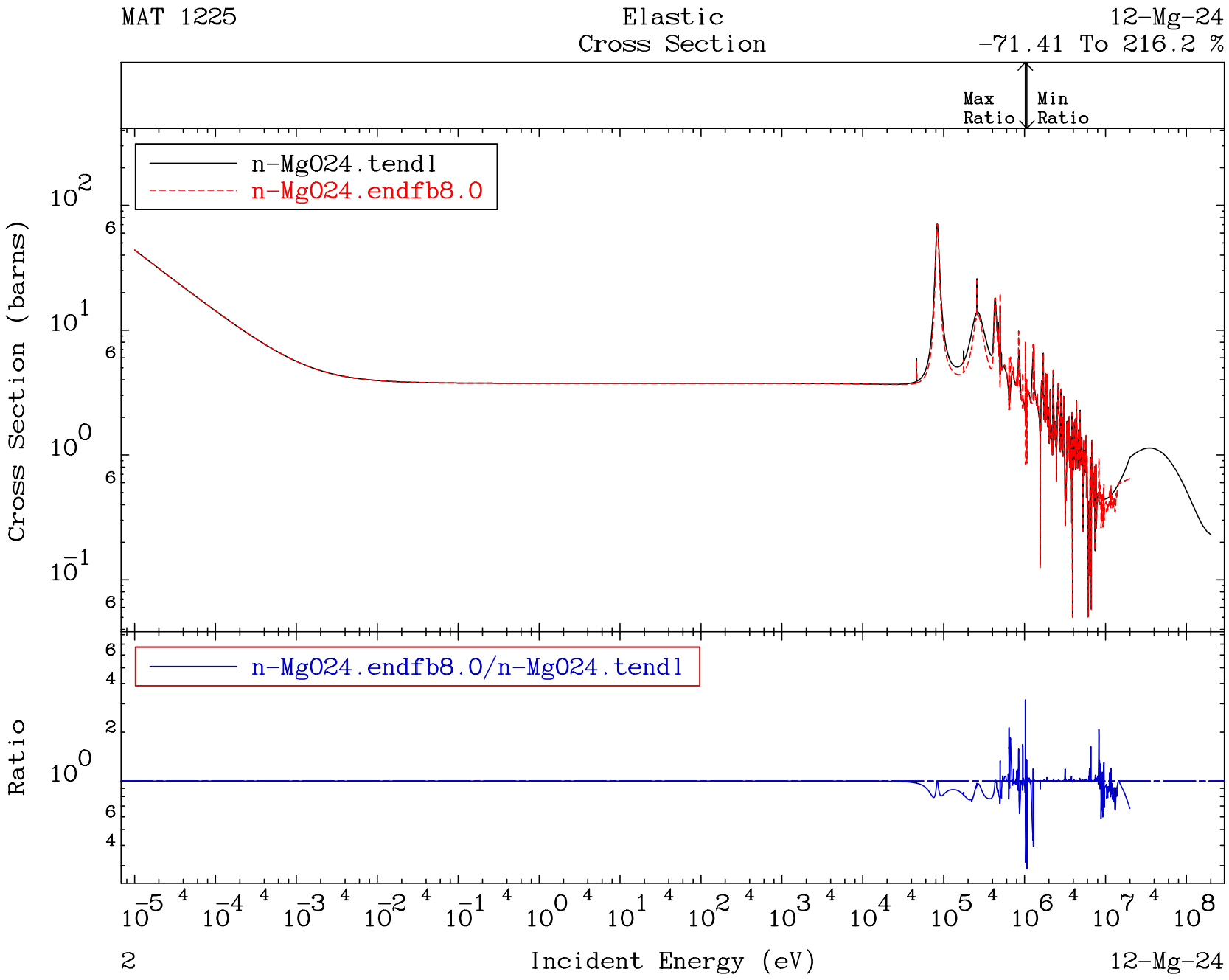
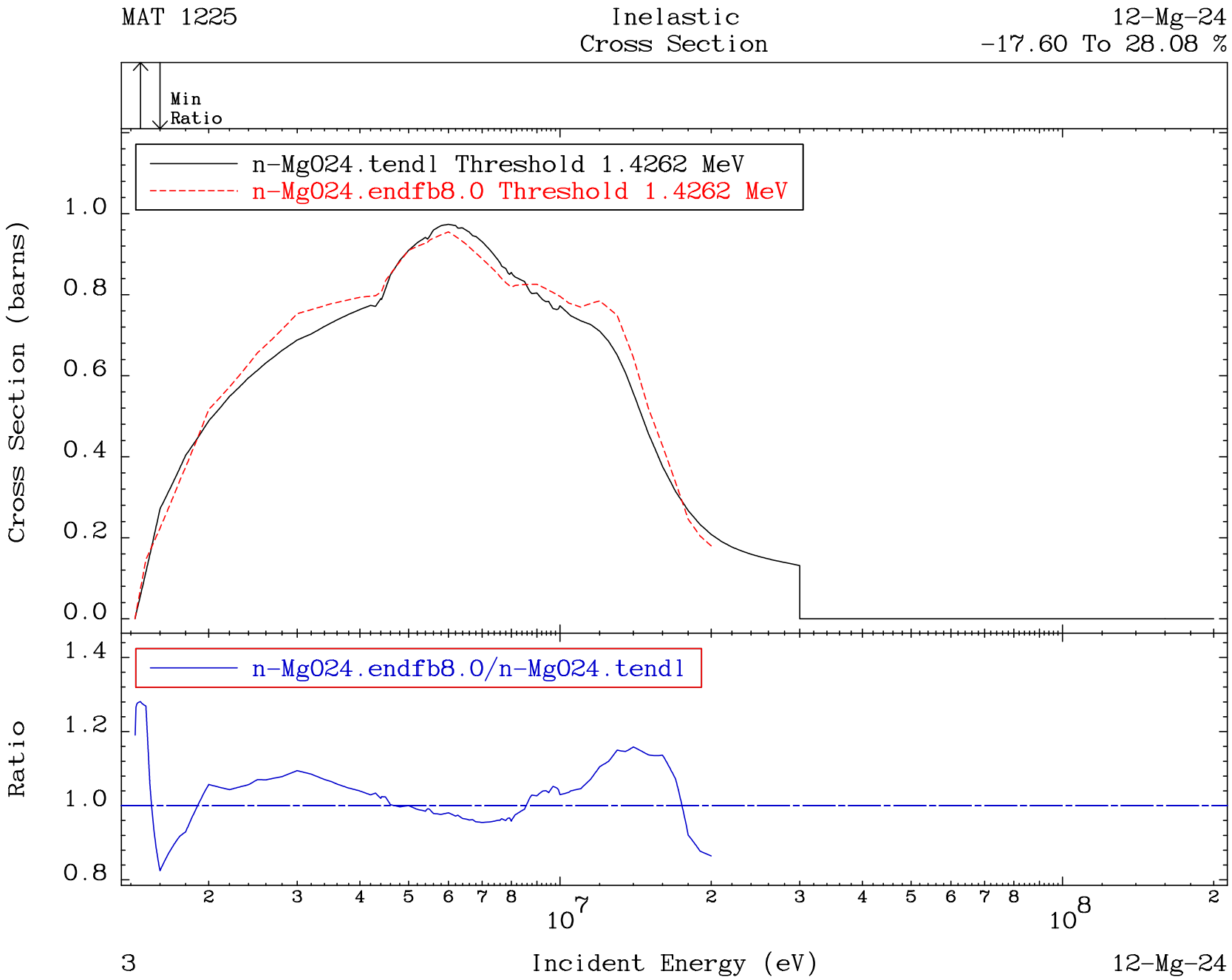
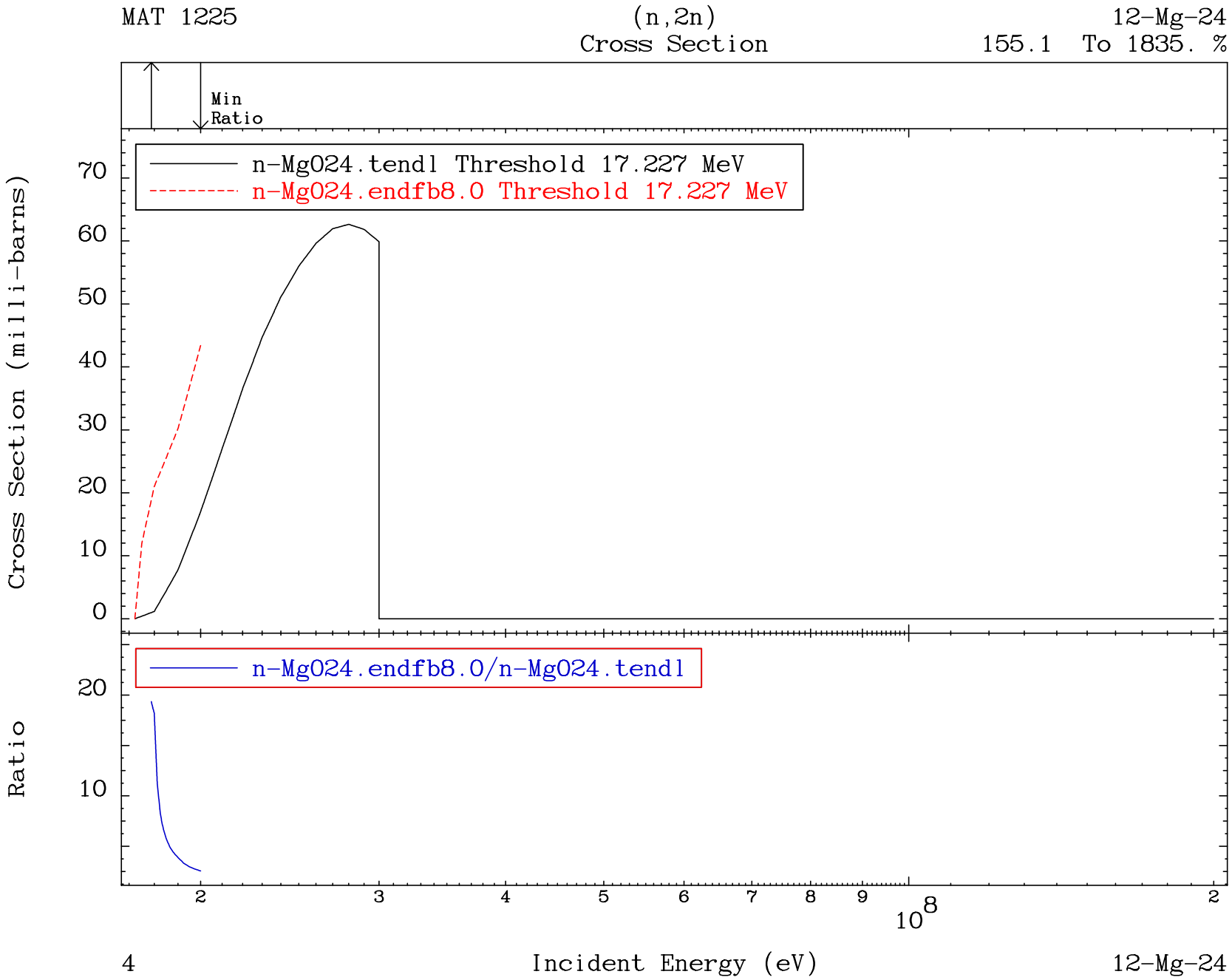
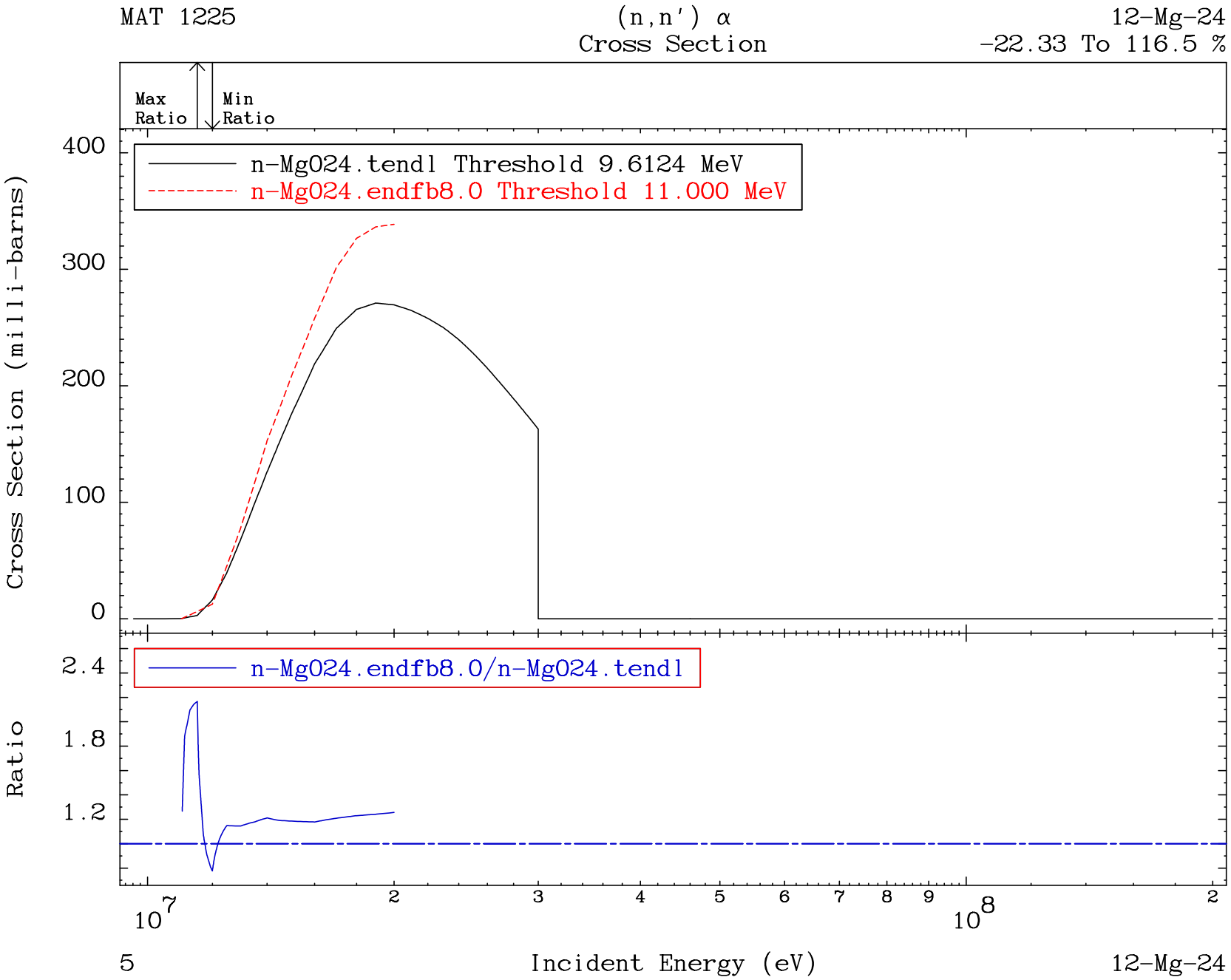
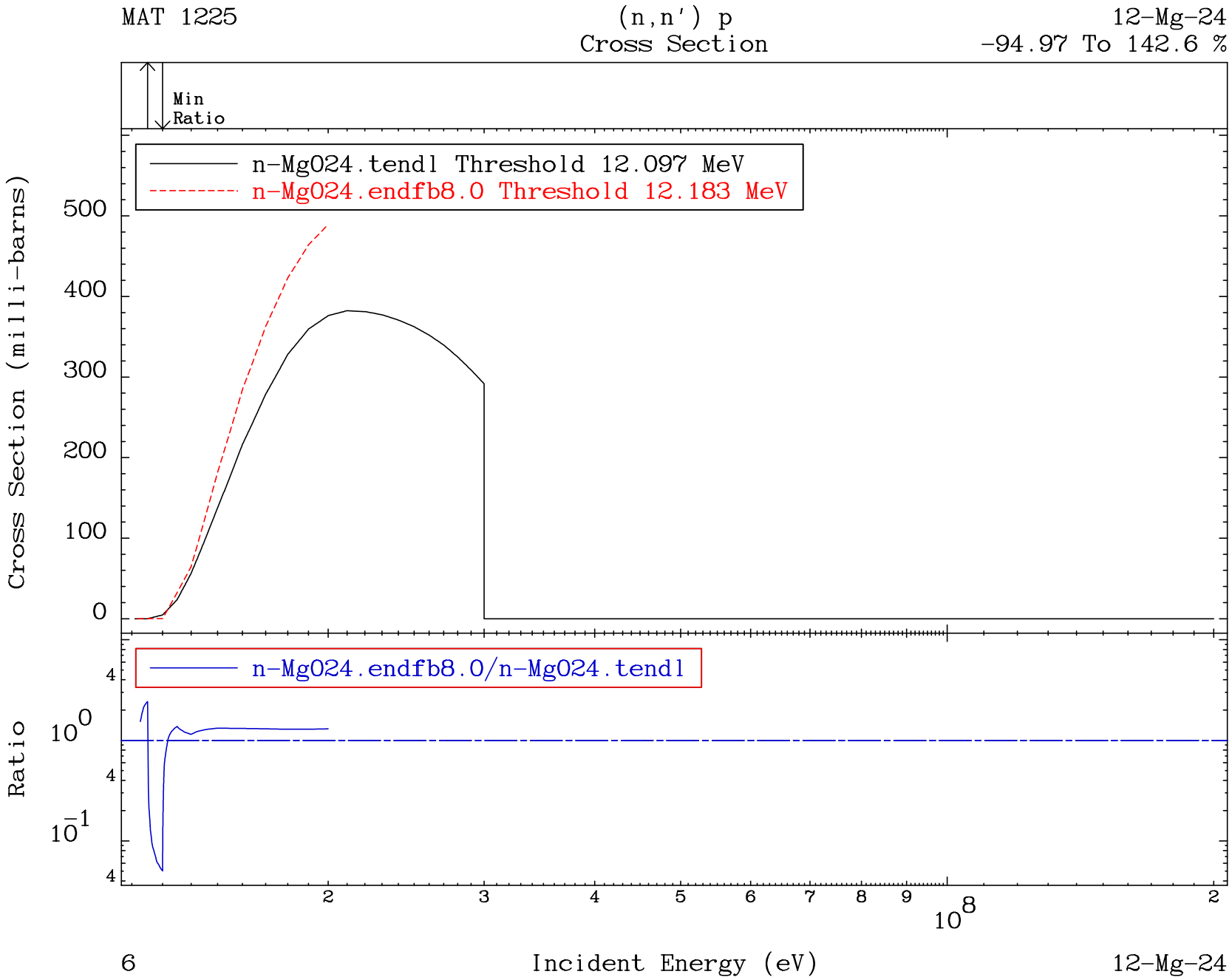

MAT 1225
Total
Cross Section
12-Mg-24
-71.40 To 216.2 %
Max Ratio
Min Ratio
n-Mg024.tendl
n-Mg024.endfb8.0
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
1
12-Mg-24

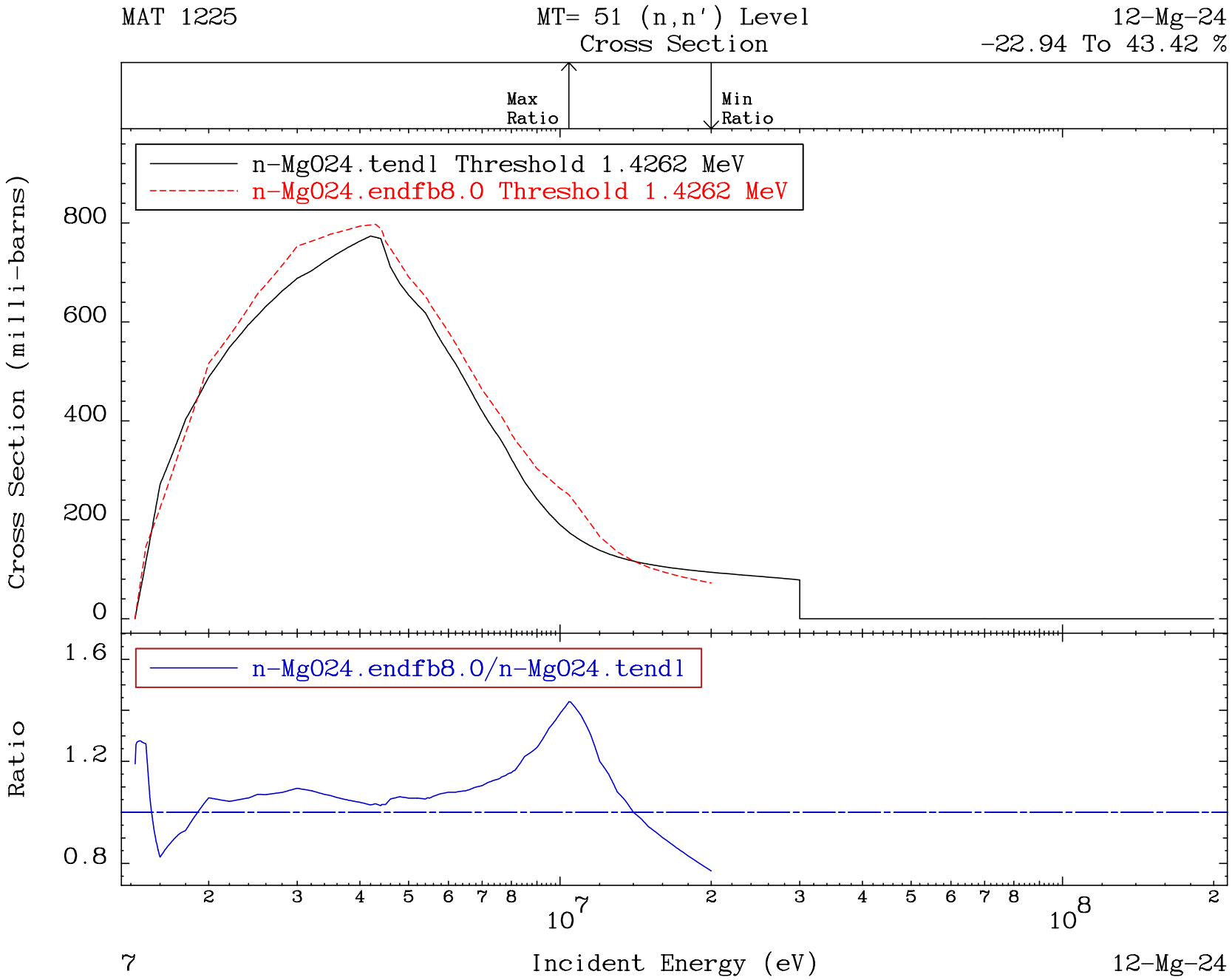

MAT 1225
Elastic
Cross Section
12-Mg-24
-71.41 To 216.2 %
Max Ratio
Min Ratio
n-Mg024.tendl
n-Mg024.endfb8.0
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
2
12-Mg-24

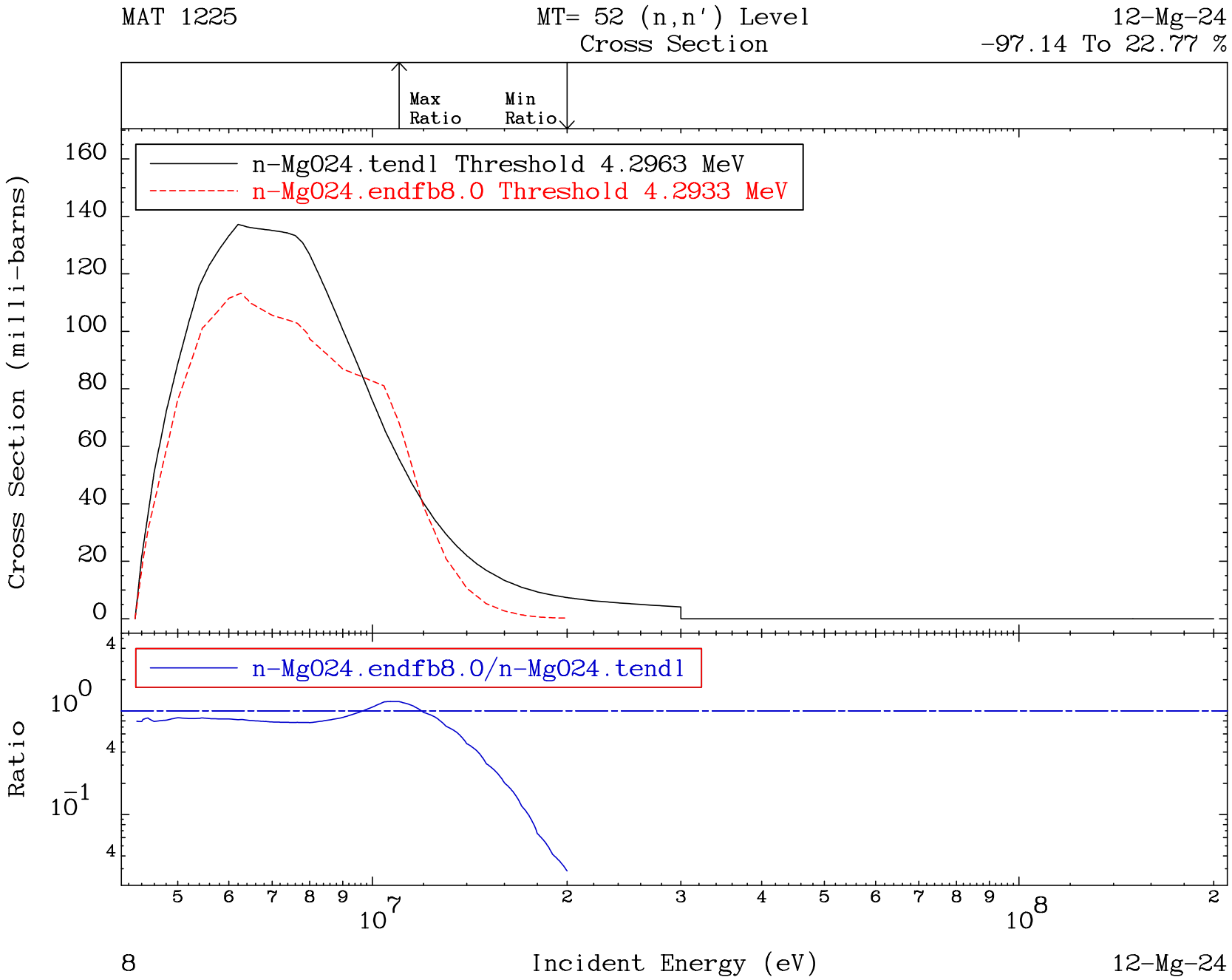

MAT 1225
Inelastic
Cross Section
12-Mg-24
-17.60 To 28.08 %
Min
Ratio
n-Mg024.tendl Threshold 1.4262 MeV
n-Mg024.endfb8.0 Threshold 1.4262 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
1.4
1.2
1.0
0.8
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
12-Mg-24

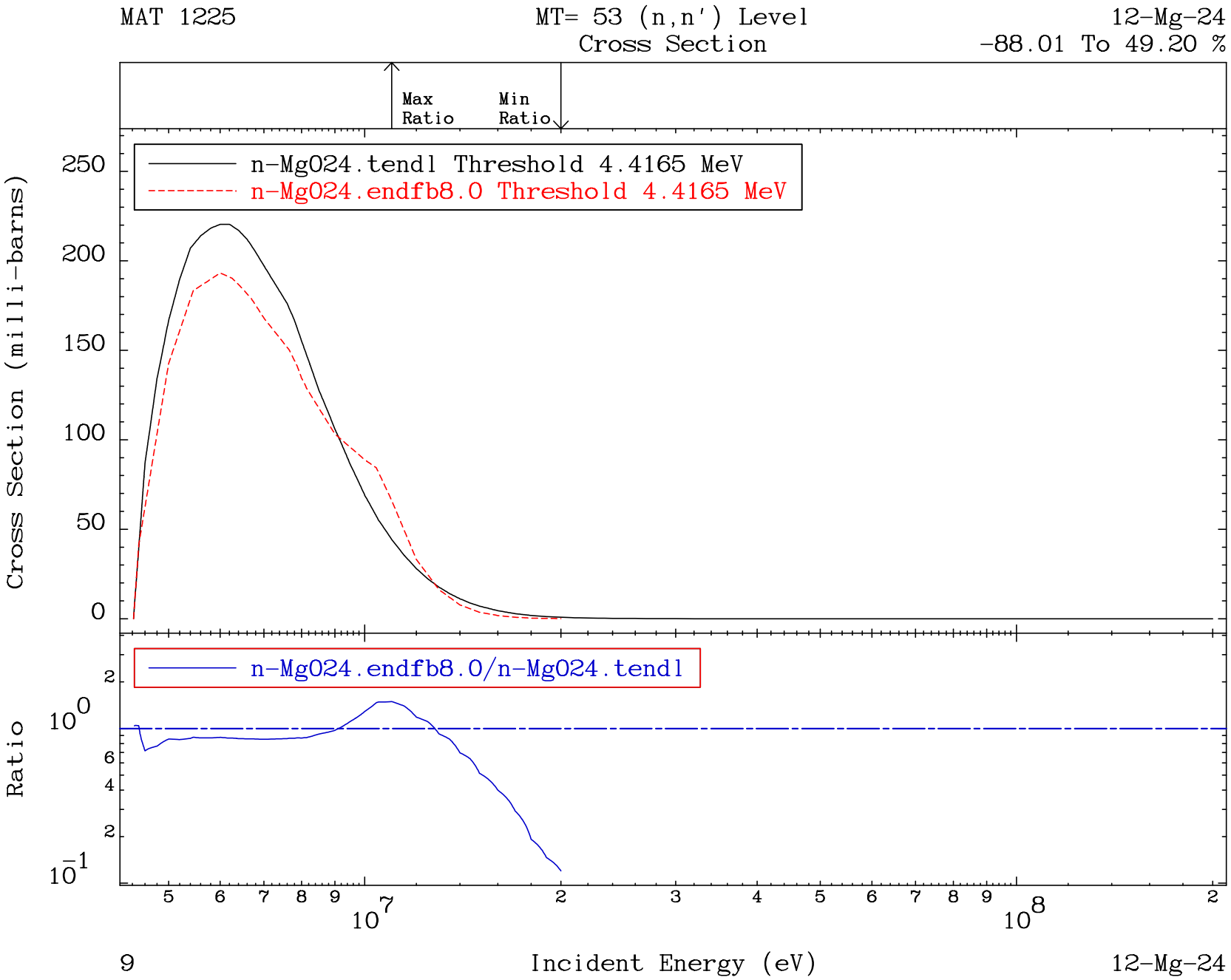

MAT 1225
(n,2n)
Cross Section
12-Mg-24
155.1 To 1835. %
Min
Ratio
n-Mg024.tendl Threshold 17.227 MeV
n-Mg024.endfb8.0 Threshold 17.227 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
20
10
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
12-Mg-24

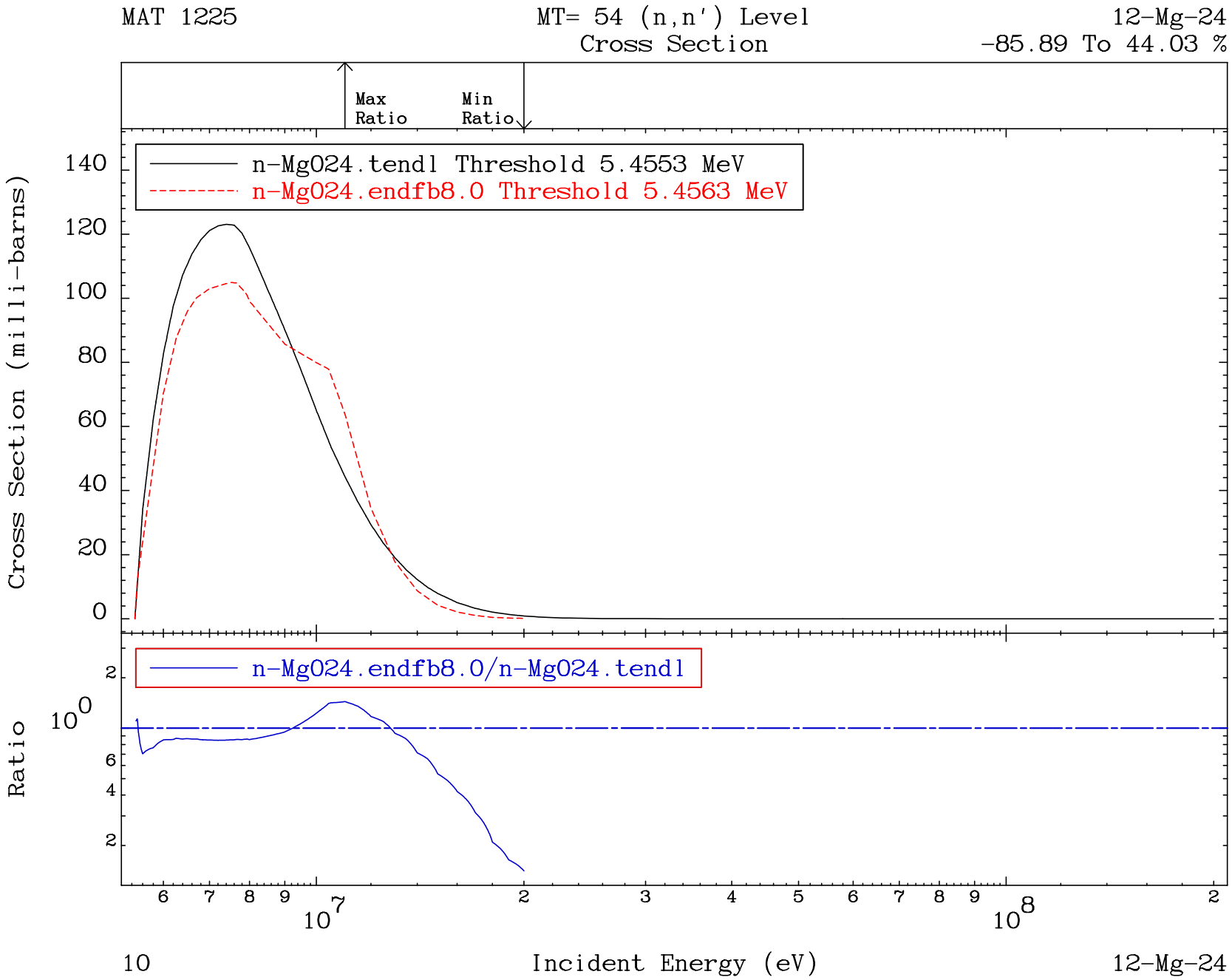

MAT 1225
(n,n') α
Cross Section
12-Mg-24
-22.33 To 116.5 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 9.6124 MeV
n-Mg024.endfb8.0 Threshold 11.000 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
2.4
1.8
1.2
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
12-Mg-24

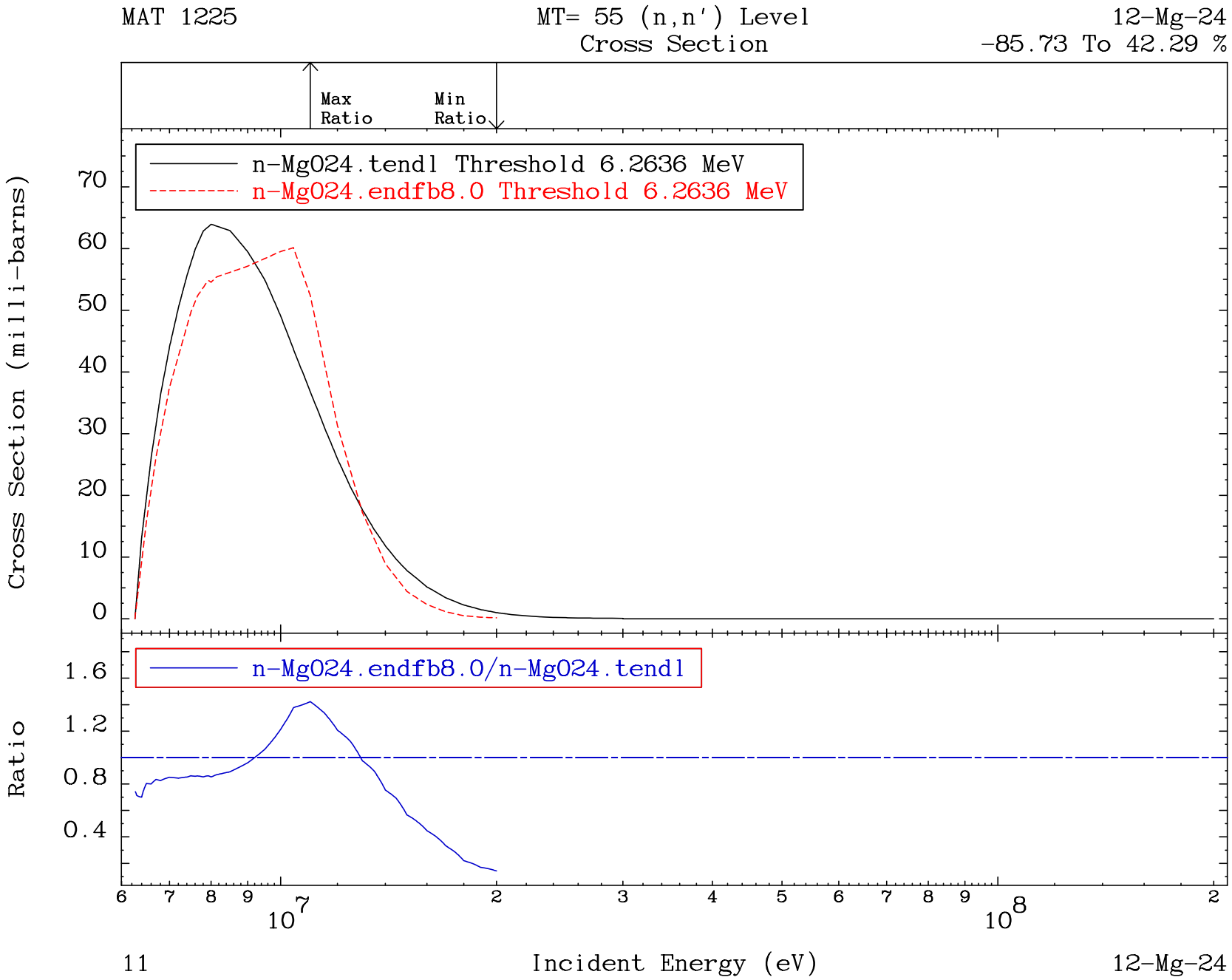

MAT 1225
(n,n') p
Cross Section
12-Mg-24
-94.97 To 142.6 %
Min
Ratio
n-Mg024.tendl Threshold 12.097 MeV
n-Mg024.endfb8.0 Threshold 12.183 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
4
10^0
4
10^{-1}
4
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
12-Mg-24

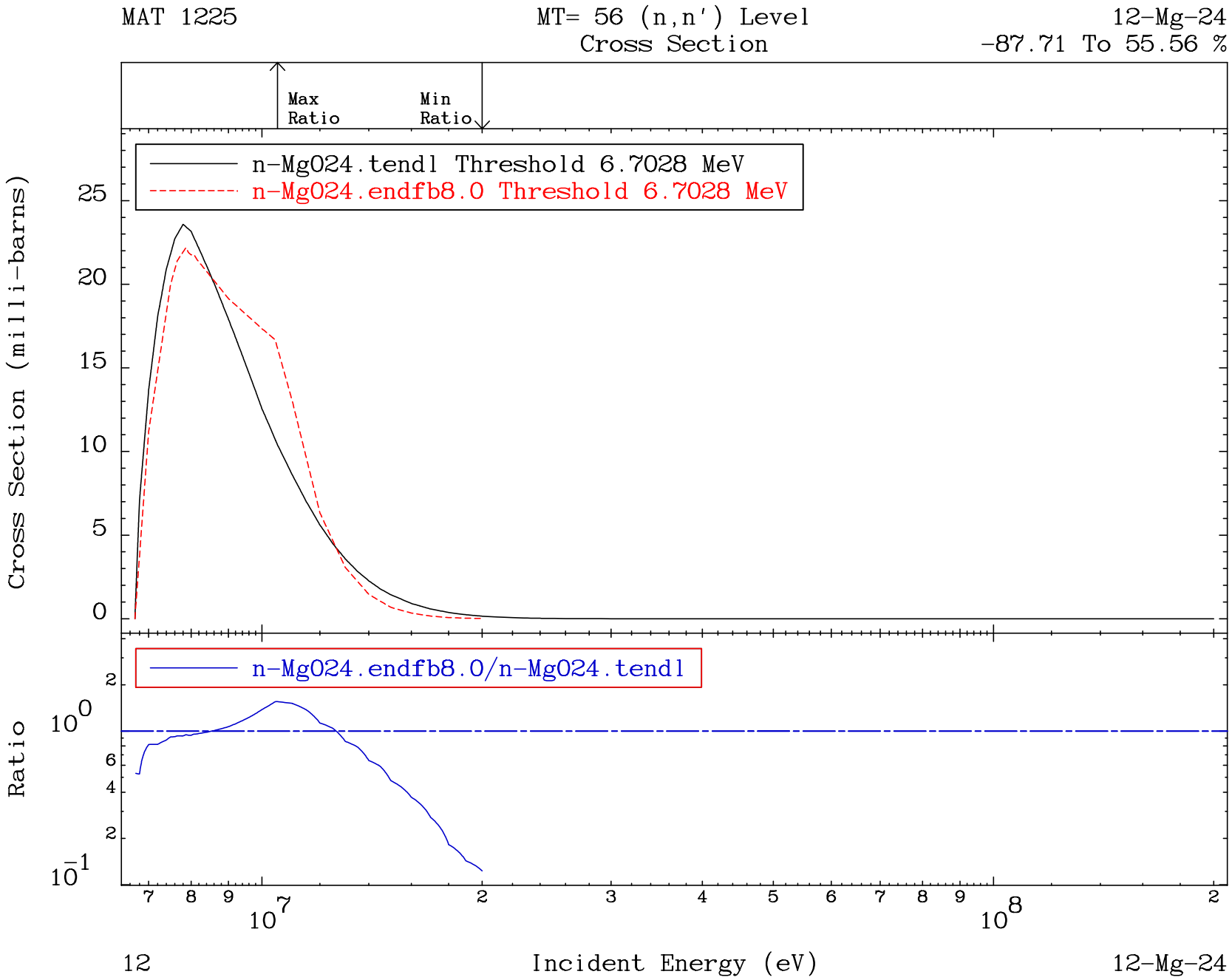

MAT 1225
MT= 51 (n,n') Level
Cross Section
12-Mg-24
-22.94 To 43.42 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 1.4262 MeV
n-Mg024.endfb8.0 Threshold 1.4262 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
1.6
1.2
0.8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
12-Mg-24

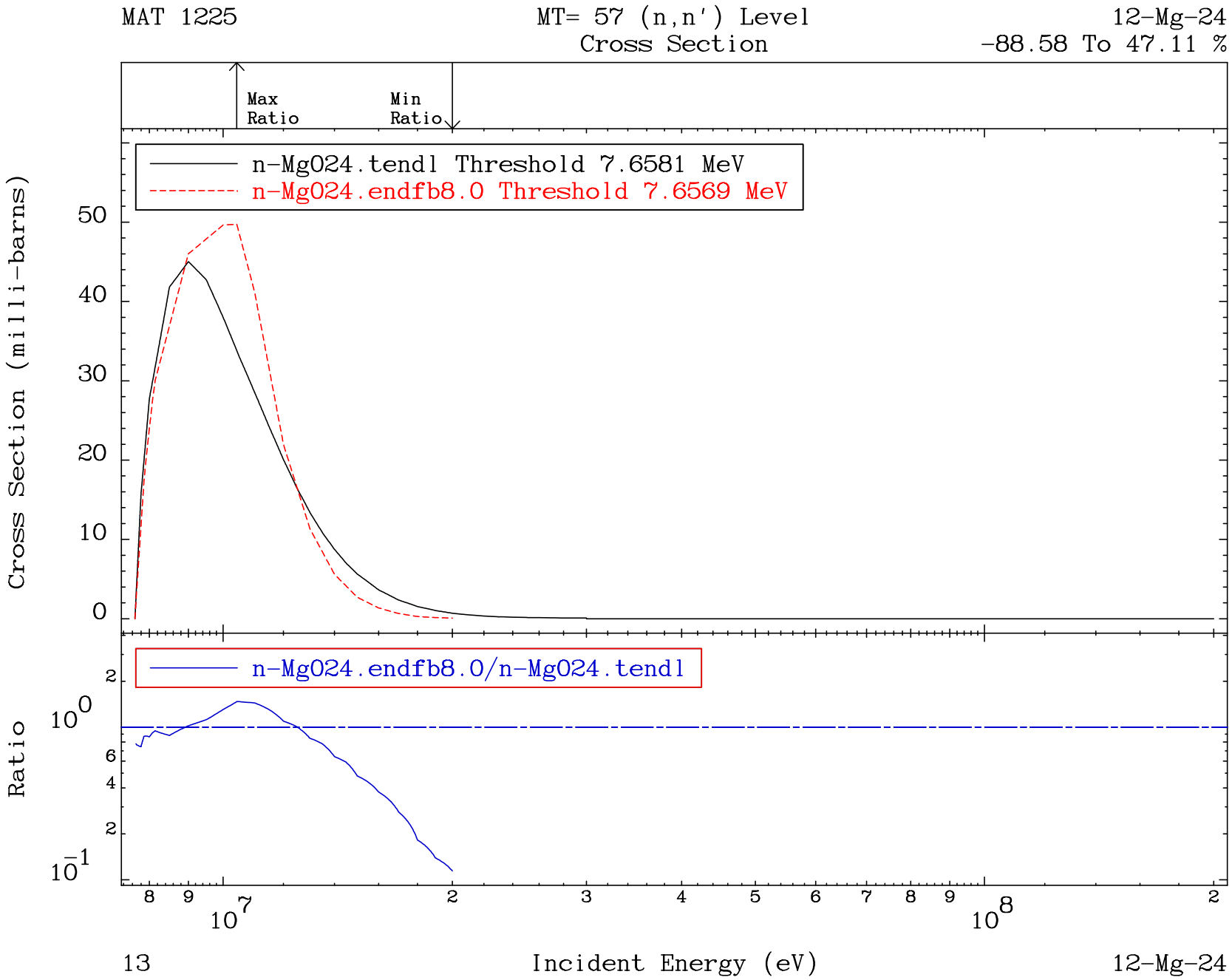

MAT 1225
MT= 52 (n,n') Level
Cross Section
12-Mg-24
-97.14 To 22.77 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 4.2963 MeV
n-Mg024.endfb8.0 Threshold 4.2933 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
10^0
10^-1
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
12-Mg-24

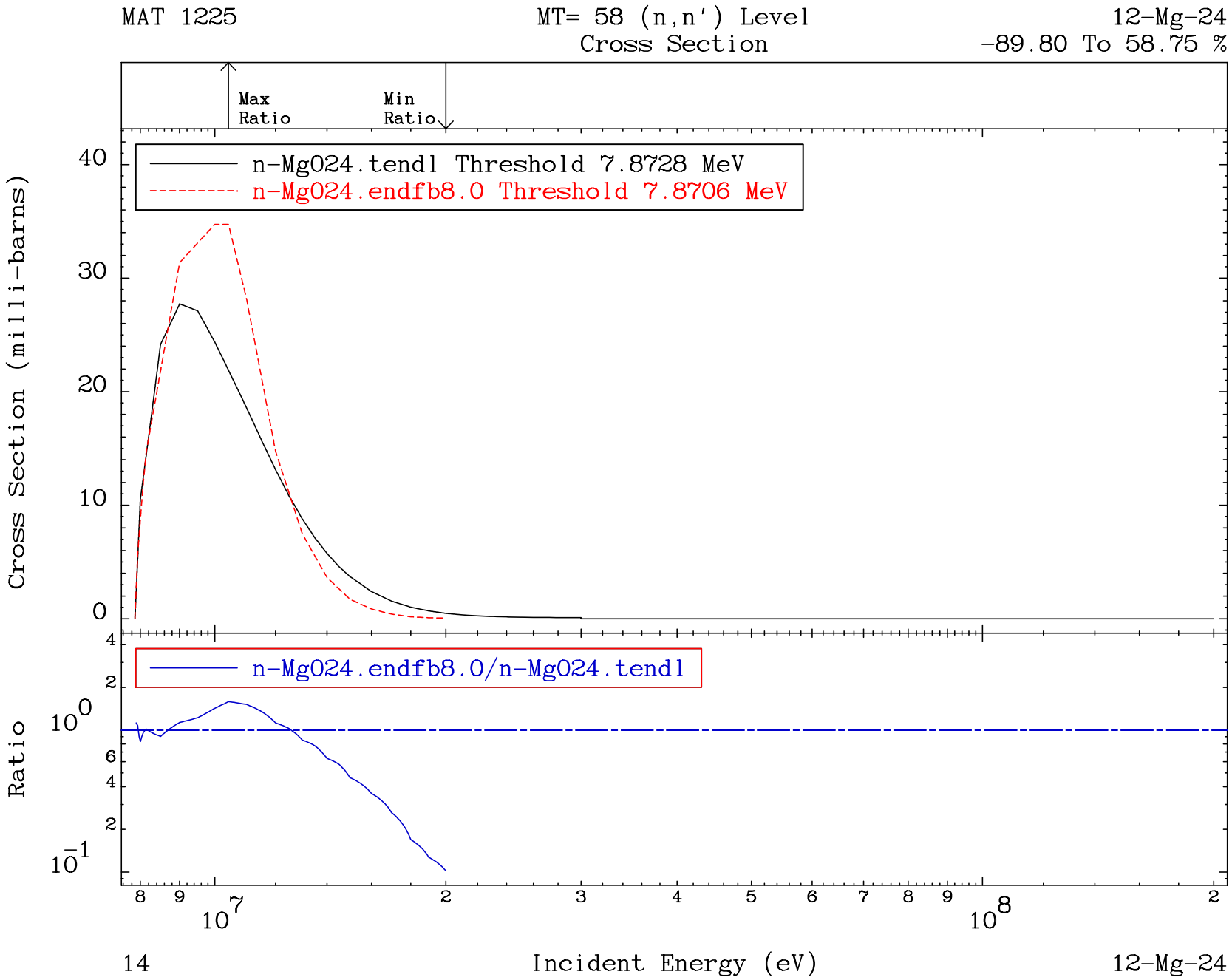

MAT 1225
MT= 53 (n,n') Level
Cross Section
12-Mg-24
-88.01 To 49.20 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 4.4165 MeV
n-Mg024.endfb8.0 Threshold 4.4165 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
2
10^0
6
4
2
10^-1
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
12-Mg-24

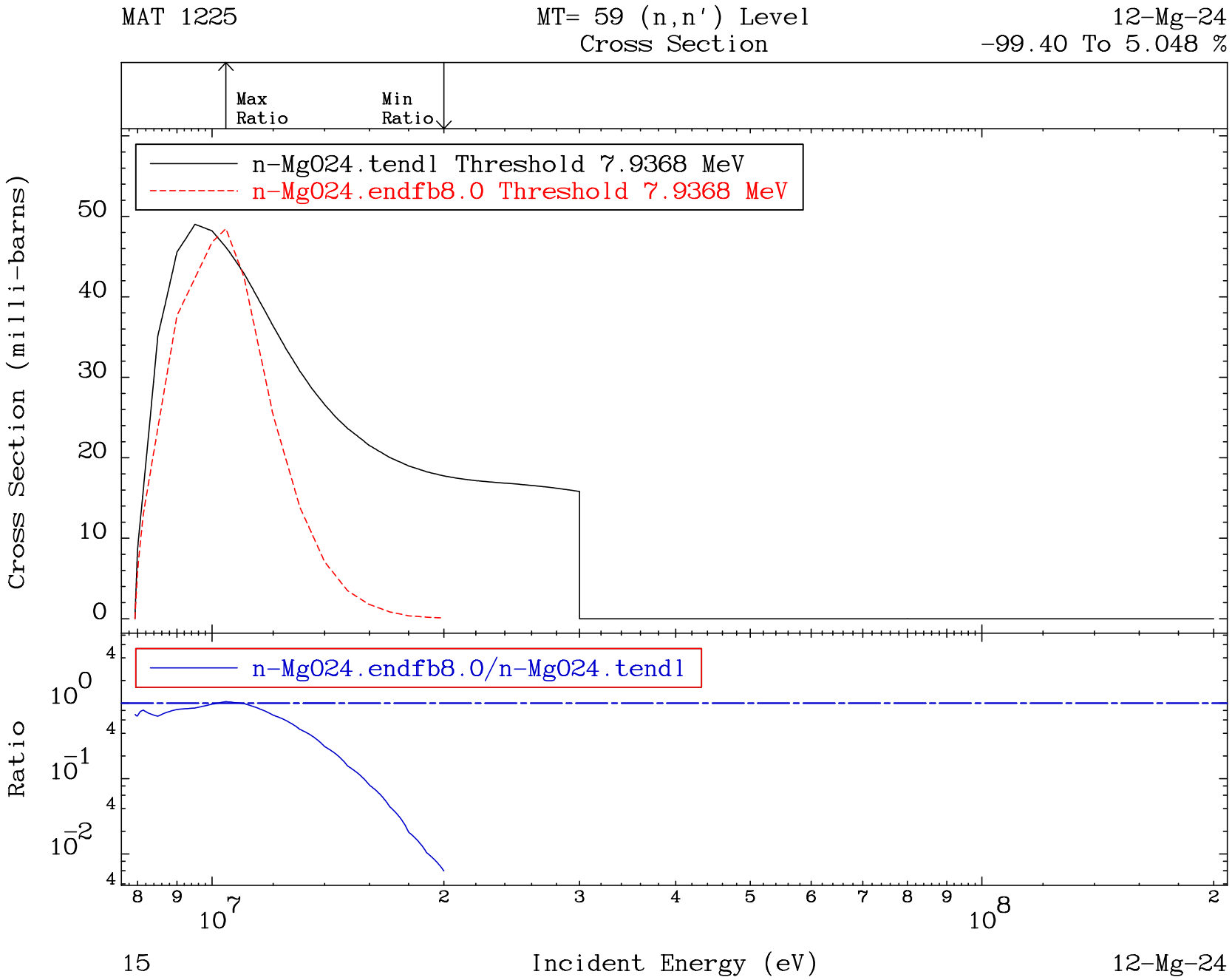

MAT 1225
MT= 54 (n,n') Level
Cross Section
12-Mg-24
-85.89 To 44.03 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 5.4553 MeV
n-Mg024.endfb8.0 Threshold 5.4563 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
2
10^0
6
4
2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
12-Mg-24

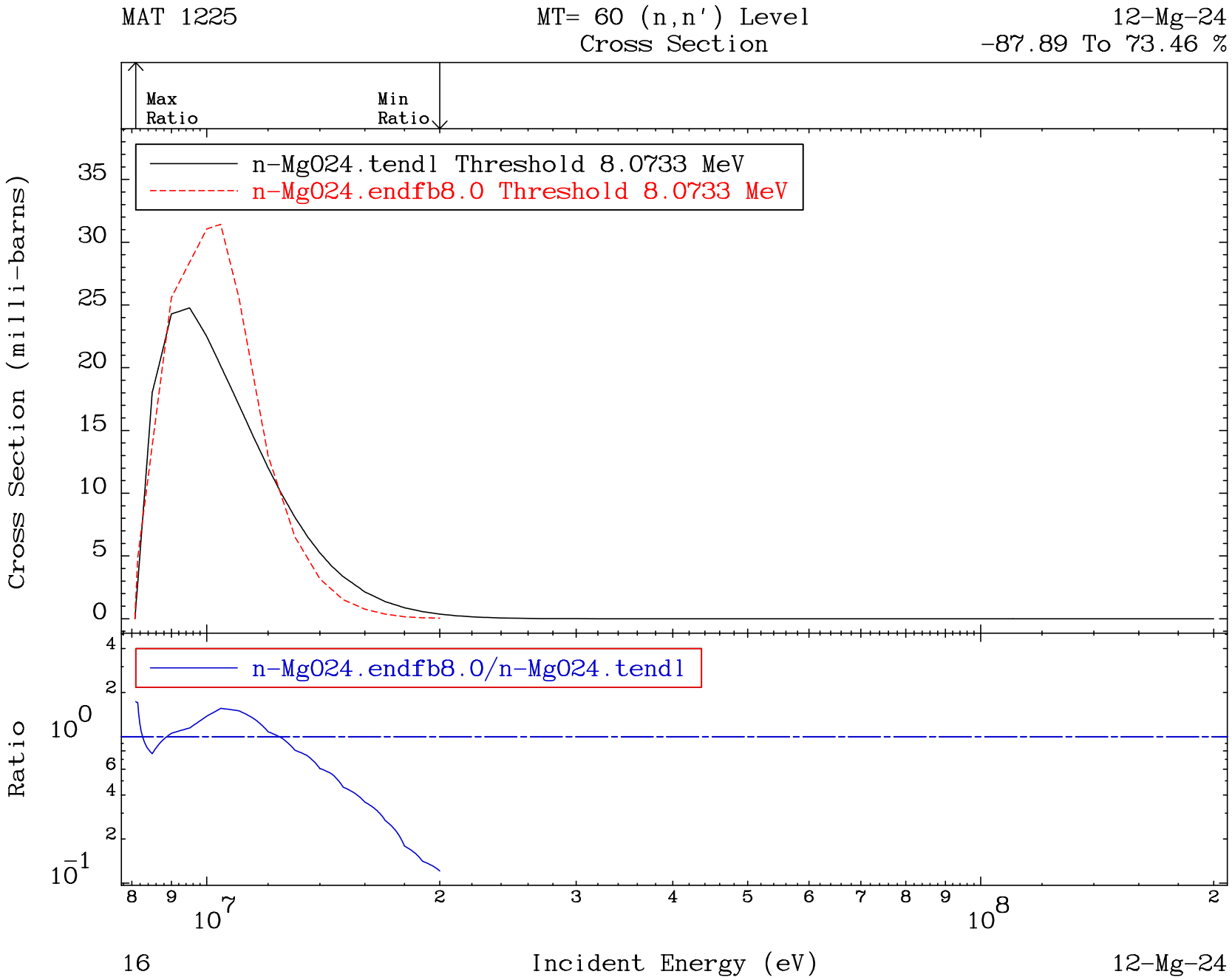

MAT 1225
MT= 55 (n,n') Level
Cross Section
12-Mg-24
-85.73 To 42.29 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 6.2636 MeV
n-Mg024.endfb8.0 Threshold 6.2636 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
1.6
1.2
0.8
0.4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
12-Mg-24

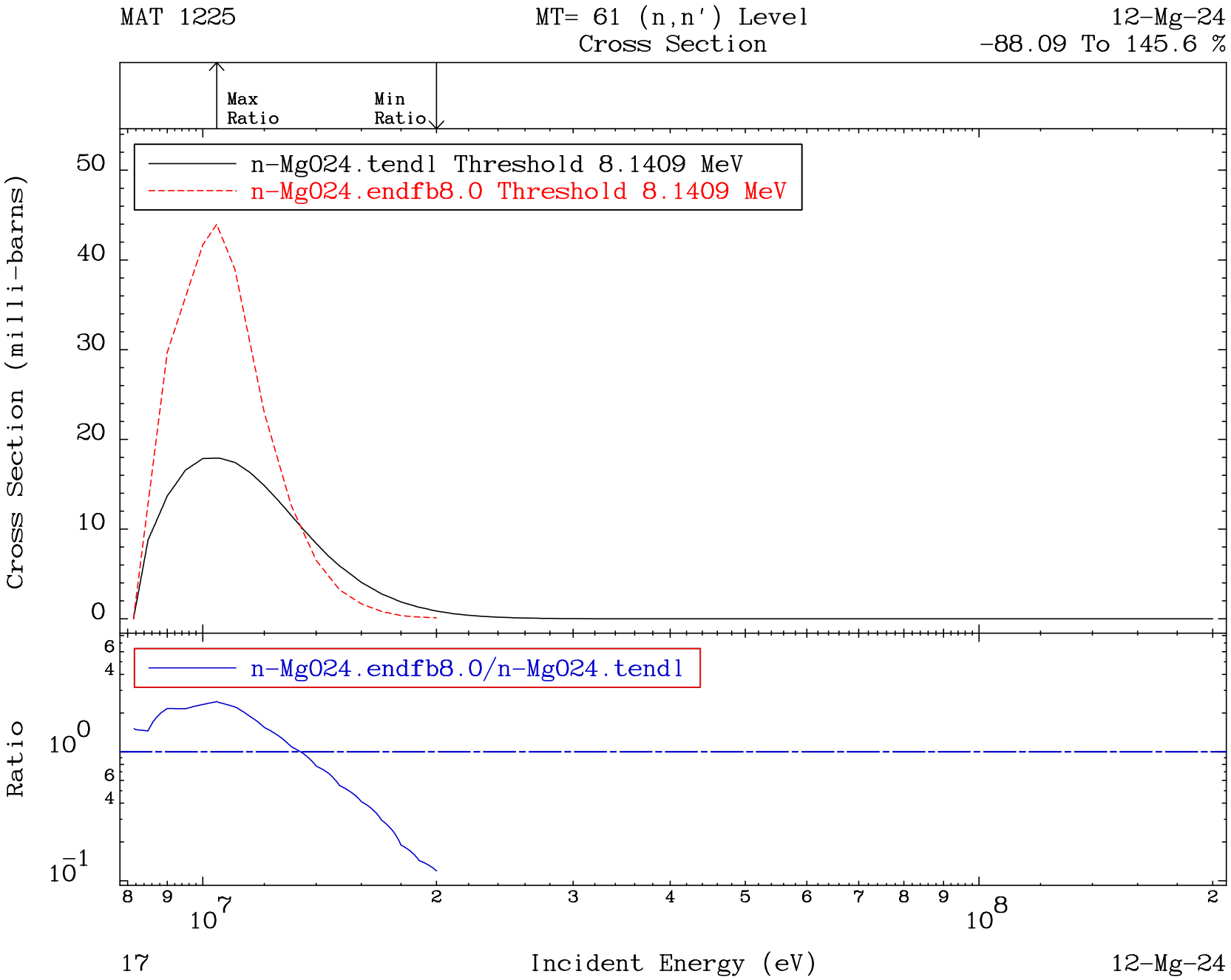

MAT 1225
MT= 56 (n,n') Level
Cross Section
12-Mg-24
-87.71 To 55.56 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 6.7028 MeV
n-Mg024.endfb8.0 Threshold 6.7028 MeV
Cross Section (milli-barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
12
12-Mg-24

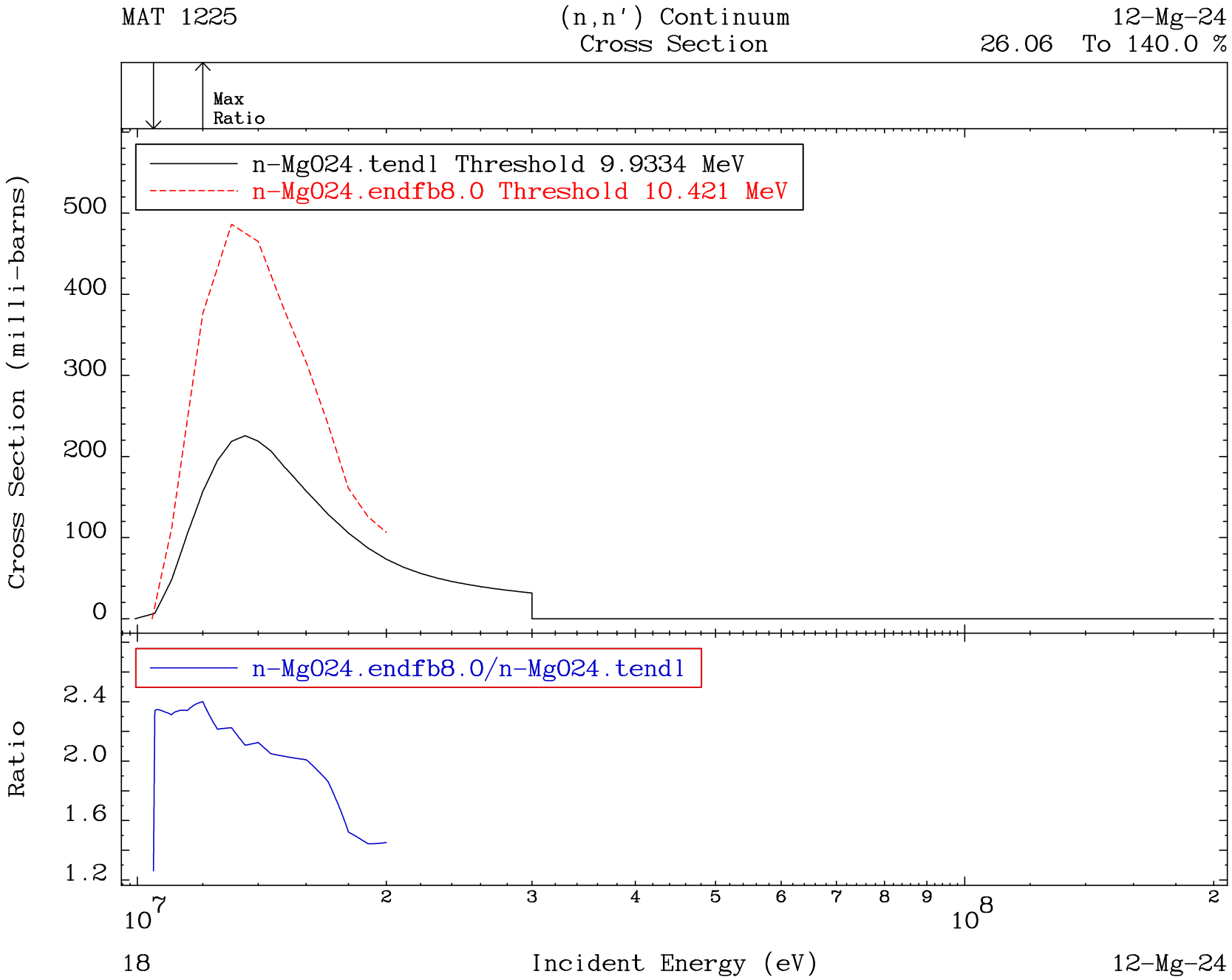

MAT 1225
MT= 57 (n,n') Level
Cross Section
12-Mg-24
-88.58 To 47.11 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 7.6581 MeV
n-Mg024.endfb8.0 Threshold 7.6569 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
2
10^0
6
4
2
10^-1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
12-Mg-24

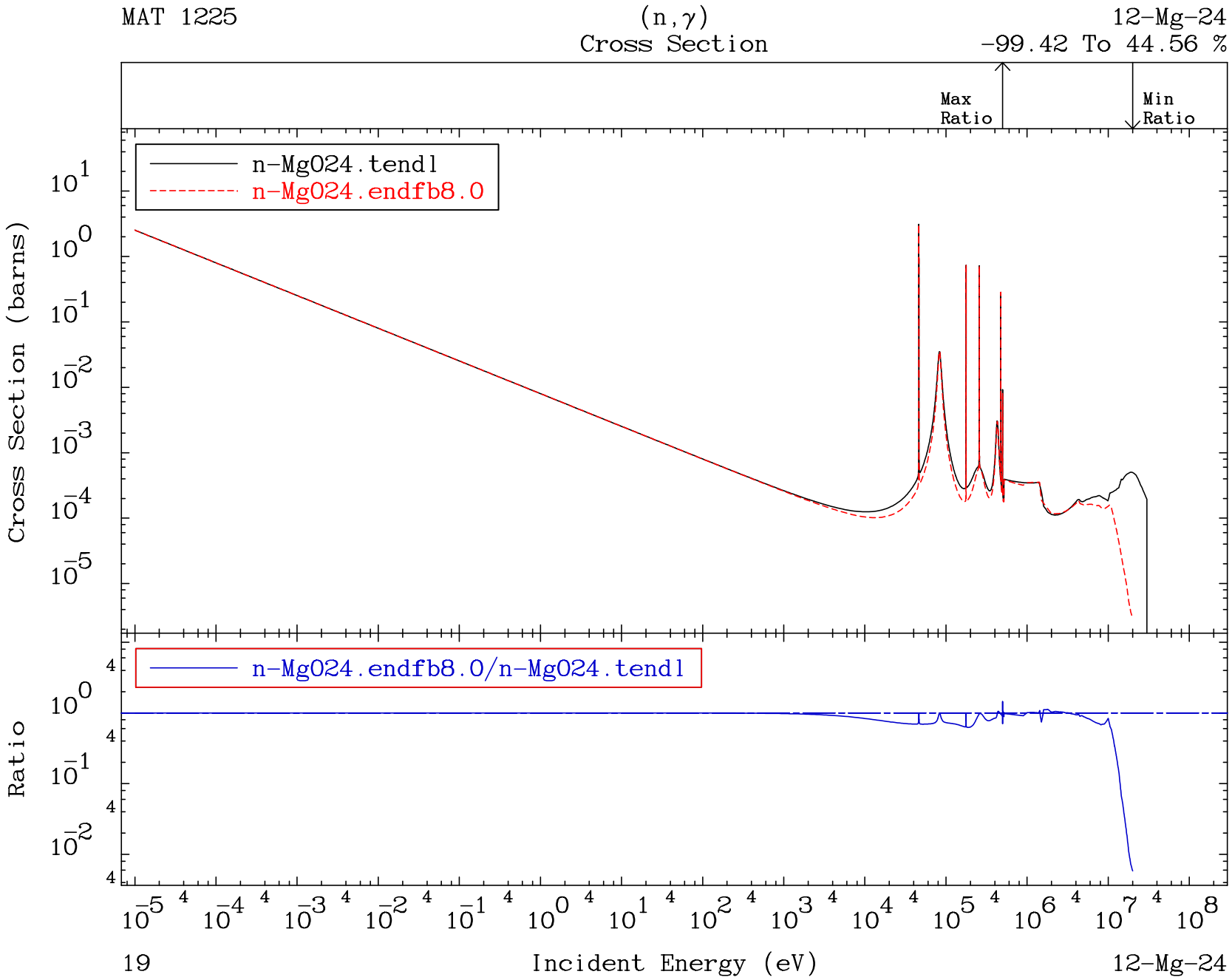

MAT 1225
MT= 58 (n,n') Level
Cross Section
12-Mg-24
-89.80 To 58.75 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 7.8728 MeV
n-Mg024.endfb8.0 Threshold 7.8706 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
4
2
10^0
6
4
2
10^-1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
12-Mg-24

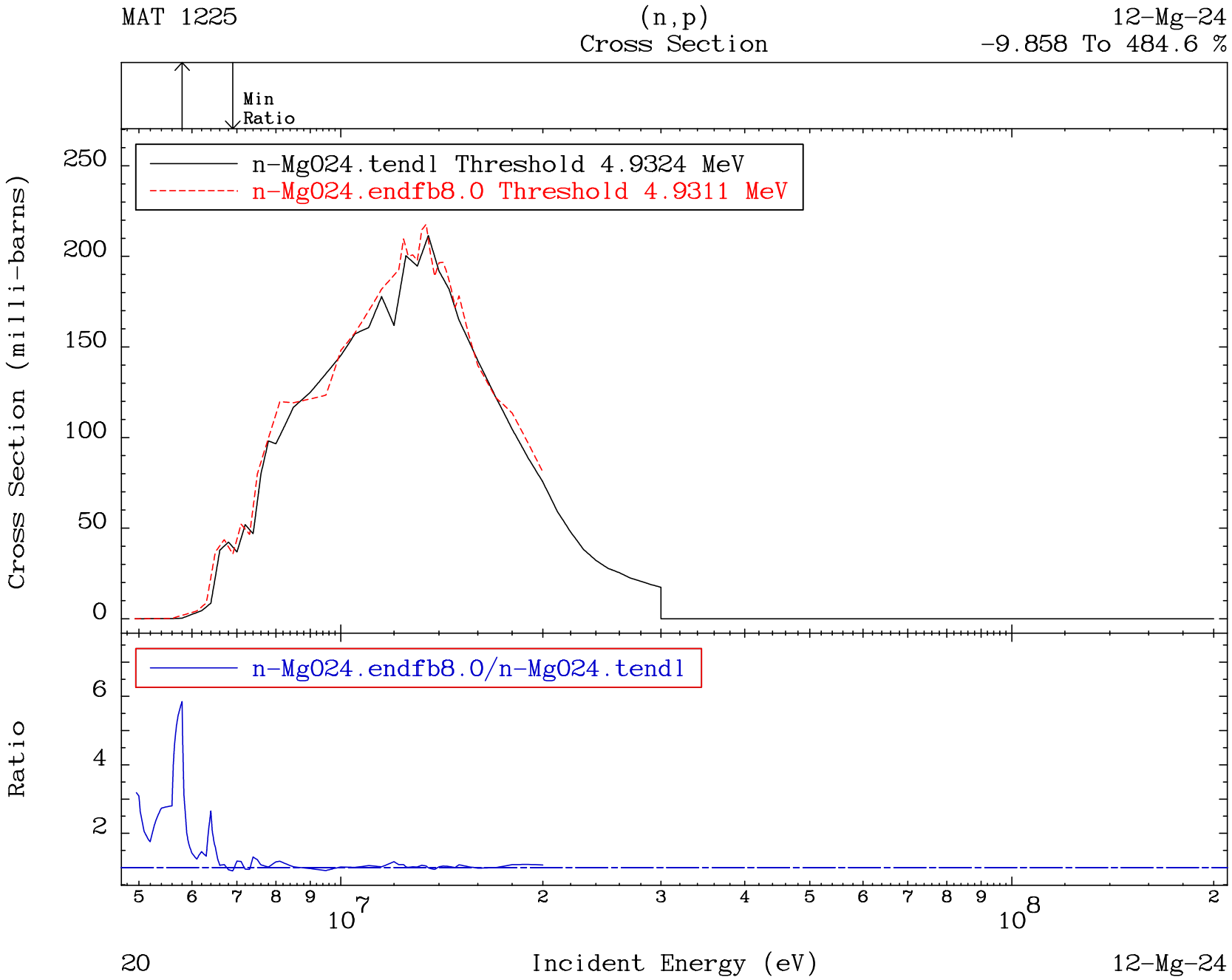

MAT 1225
MT= 59 (n,n') Level
Cross Section
12-Mg-24
-99.40 To 5.048 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 7.9368 MeV
n-Mg024.endfb8.0 Threshold 7.9368 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
10^0
10^-1
10^-2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
12-Mg-24

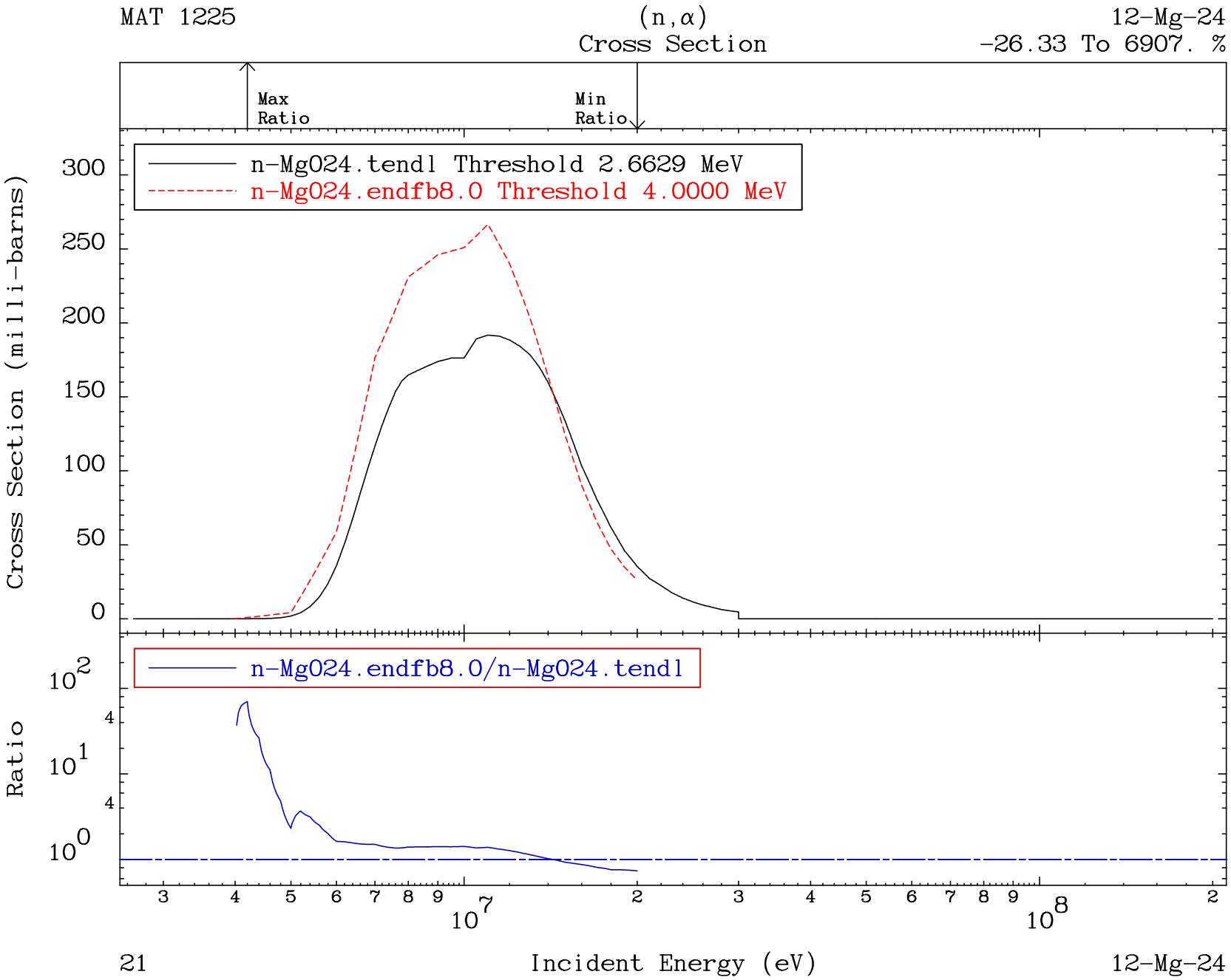

MAT 1225
MT= 60 (n,n') Level
Cross Section
12-Mg-24
-87.89 To 73.46 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 8.0733 MeV
n-Mg024.endfb8.0 Threshold 8.0733 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
4
2
10^0
6
4
2
10^-1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
12-Mg-24

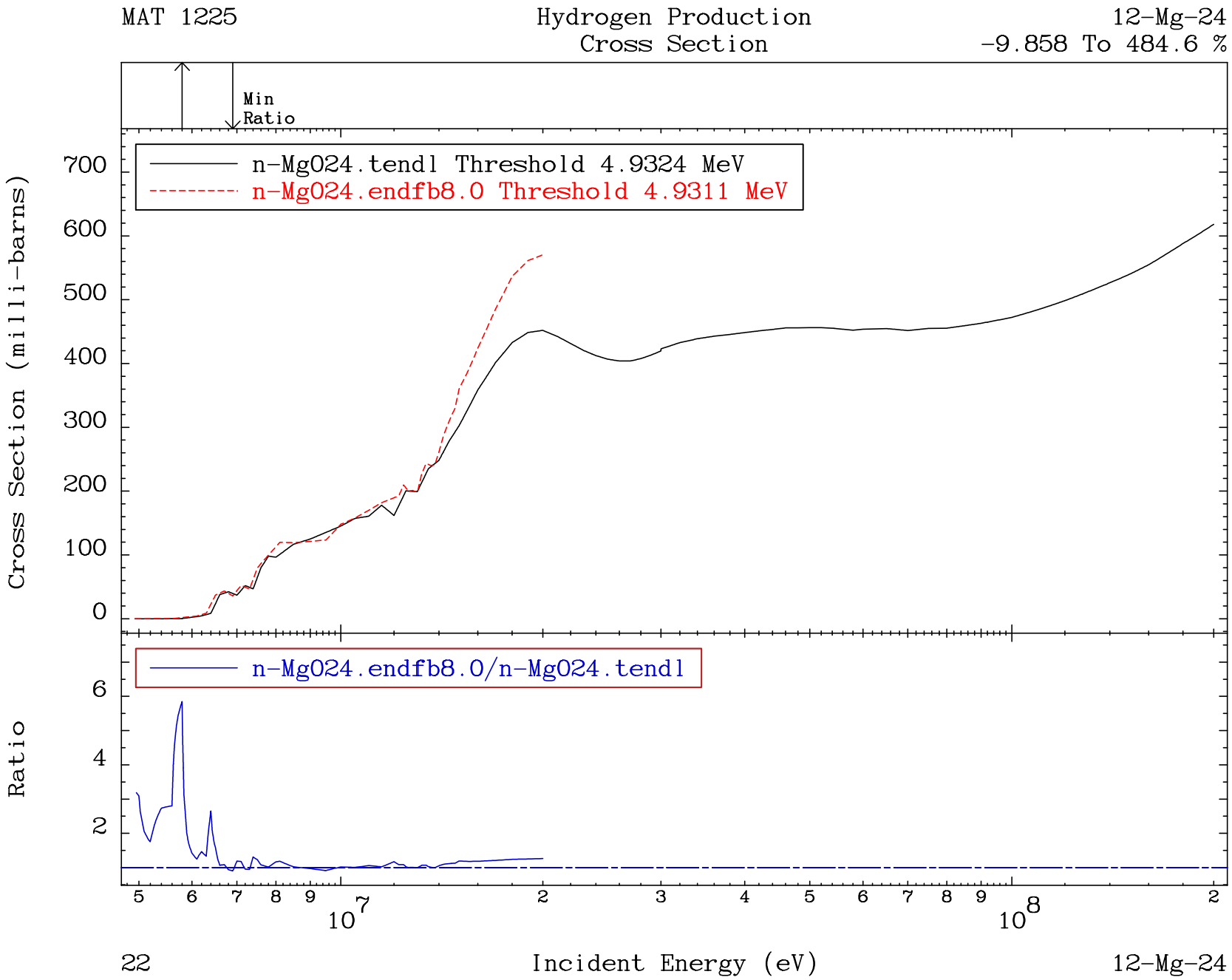

MAT 1225
MT= 61 (n,n') Level
Cross Section
12-Mg-24
-88.09 To 145.6 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 8.1409 MeV
n-Mg024.endfb8.0 Threshold 8.1409 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
6
4
10^0
6
4
10^-1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
12-Mg-24

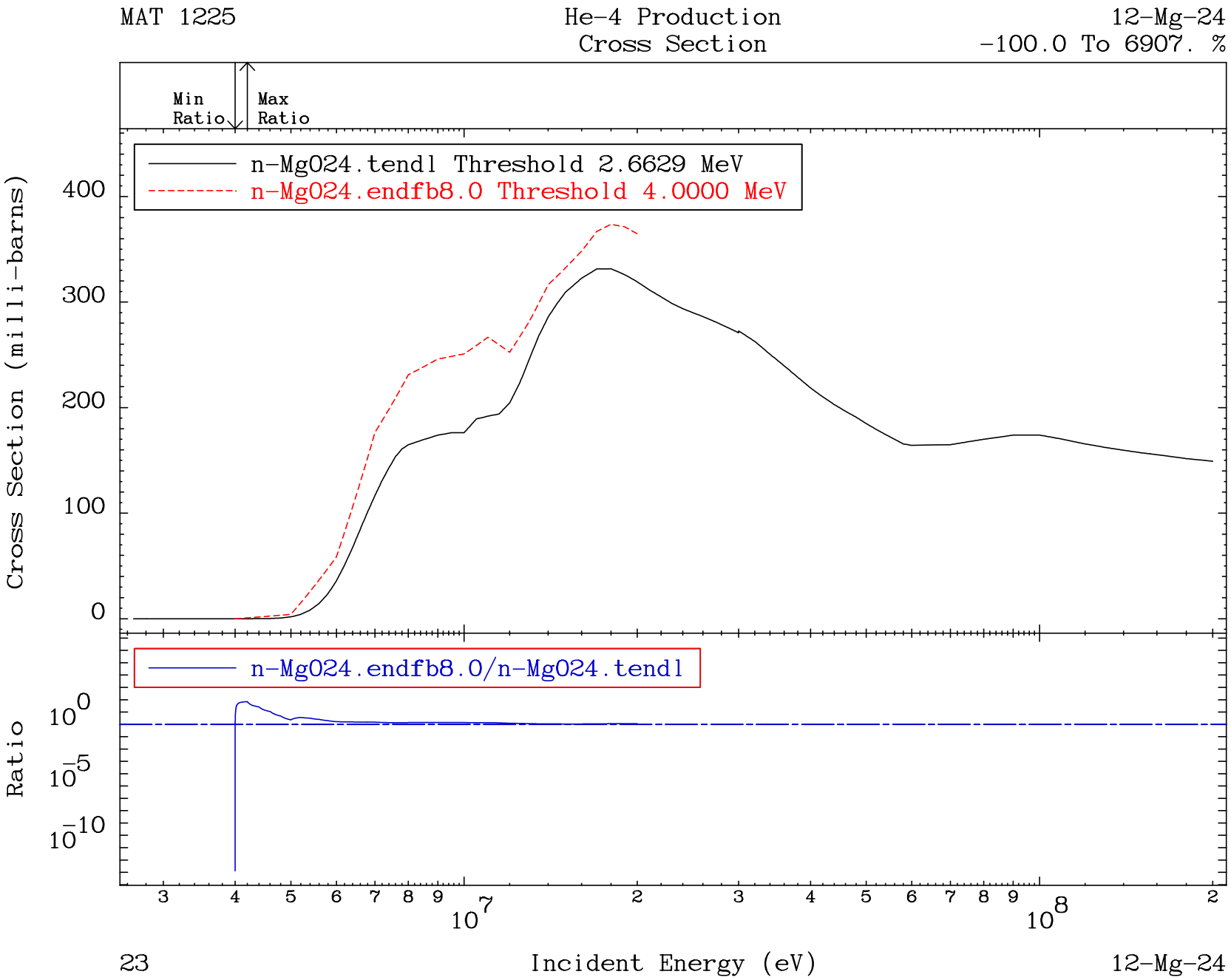

MAT 1225
(n,n') Continuum
Cross Section
12-Mg-24
26.06 To 140.0 %
Max
Ratio
n-Mg024.tendl Threshold 9.9334 MeV
n-Mg024.endfb8.0 Threshold 10.421 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
2.4
2.0
1.6
1.2
10^7
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
12-Mg-24

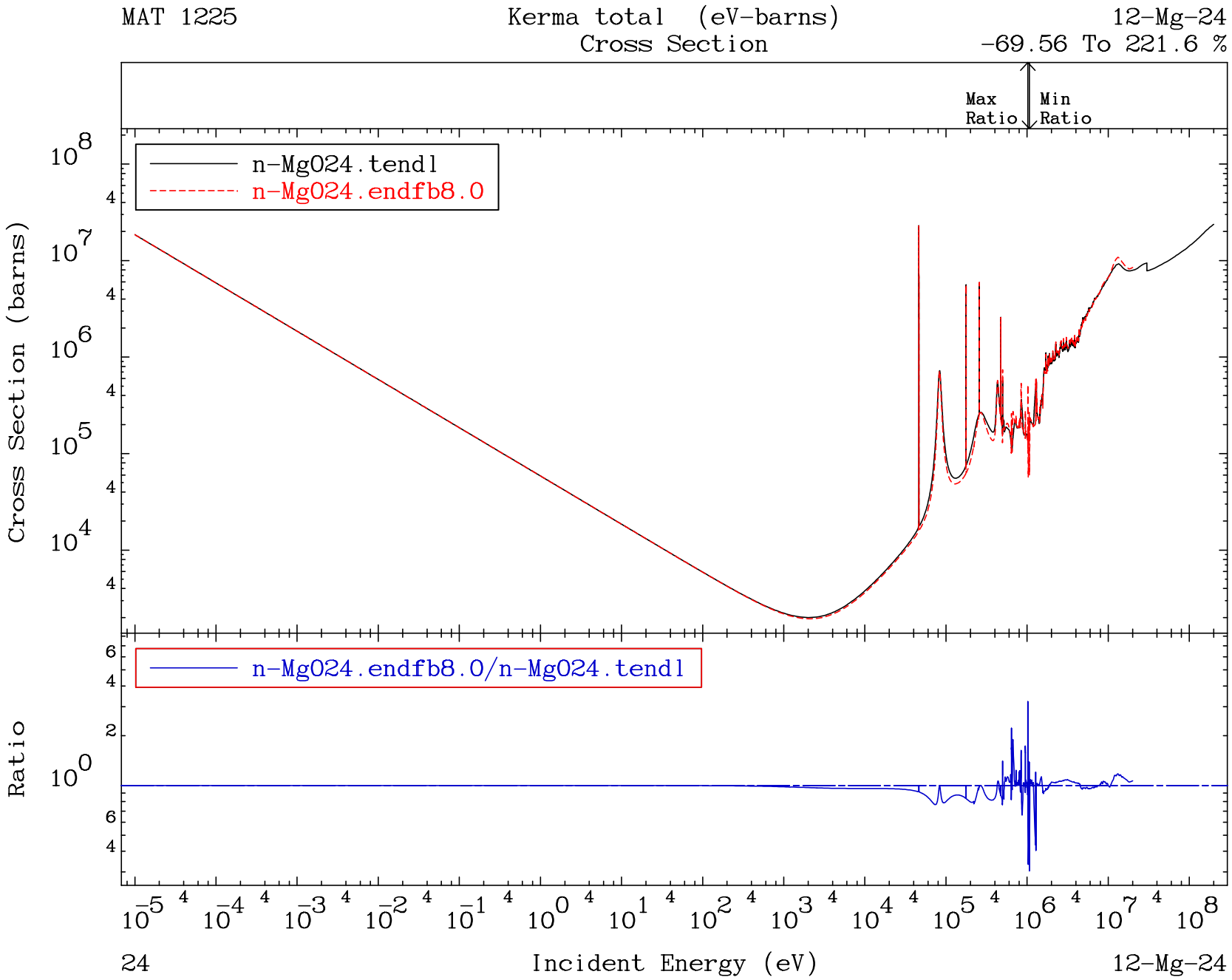

MAT 1225
(n,γ)
Cross Section
12-Mg-24
-99.42 To 44.56 %
Max Ratio
Min Ratio
n-Mg024.tendl
n-Mg024.endfb8.0
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
19
12-Mg-24

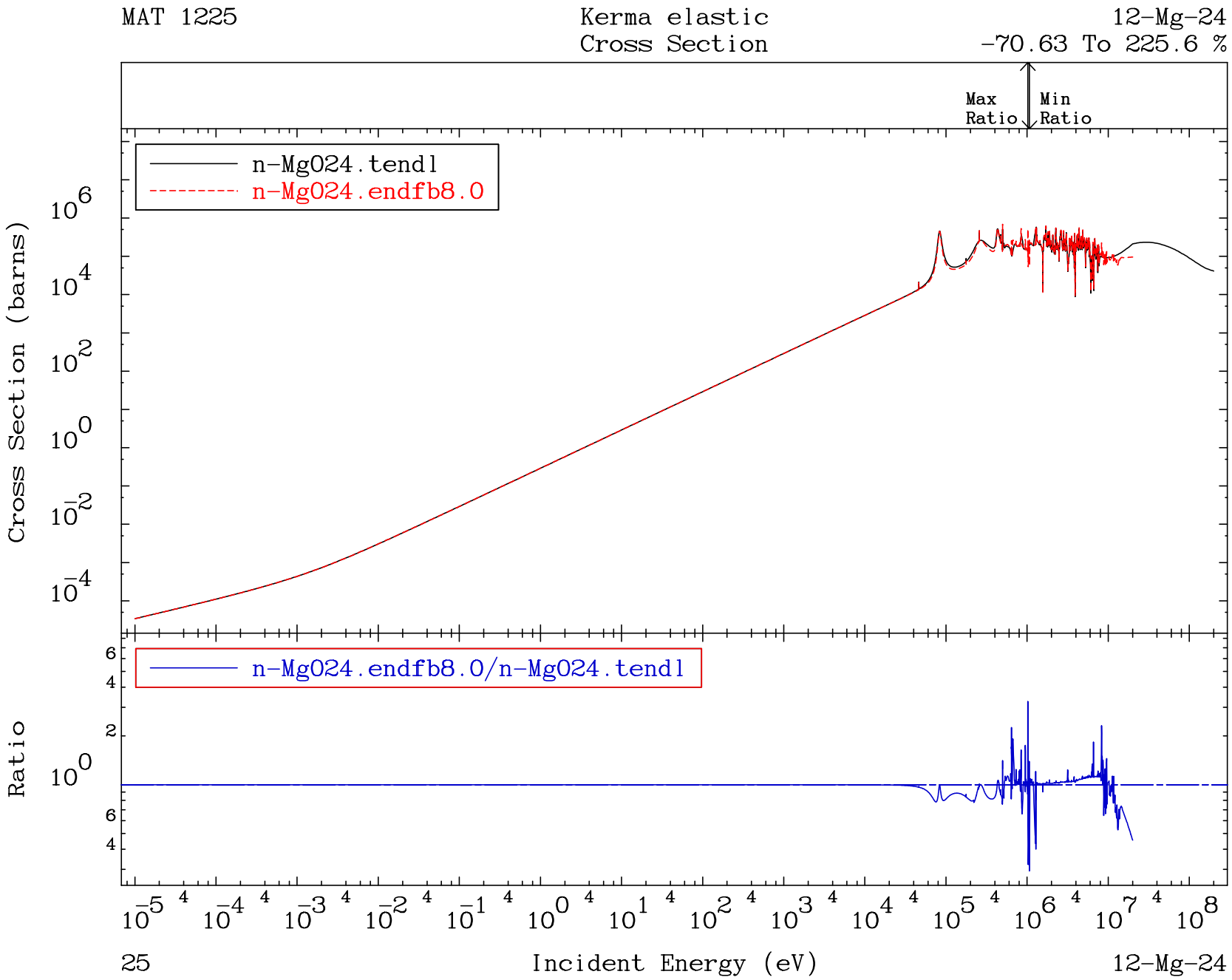

MAT 1225
(n,p)
Cross Section
12-Mg-24
-9.858 To 484.6 %
Min
Ratio
n-Mg024.tendl Threshold 4.9324 MeV
n-Mg024.endfb8.0 Threshold 4.9311 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
6
4
2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
12-Mg-24

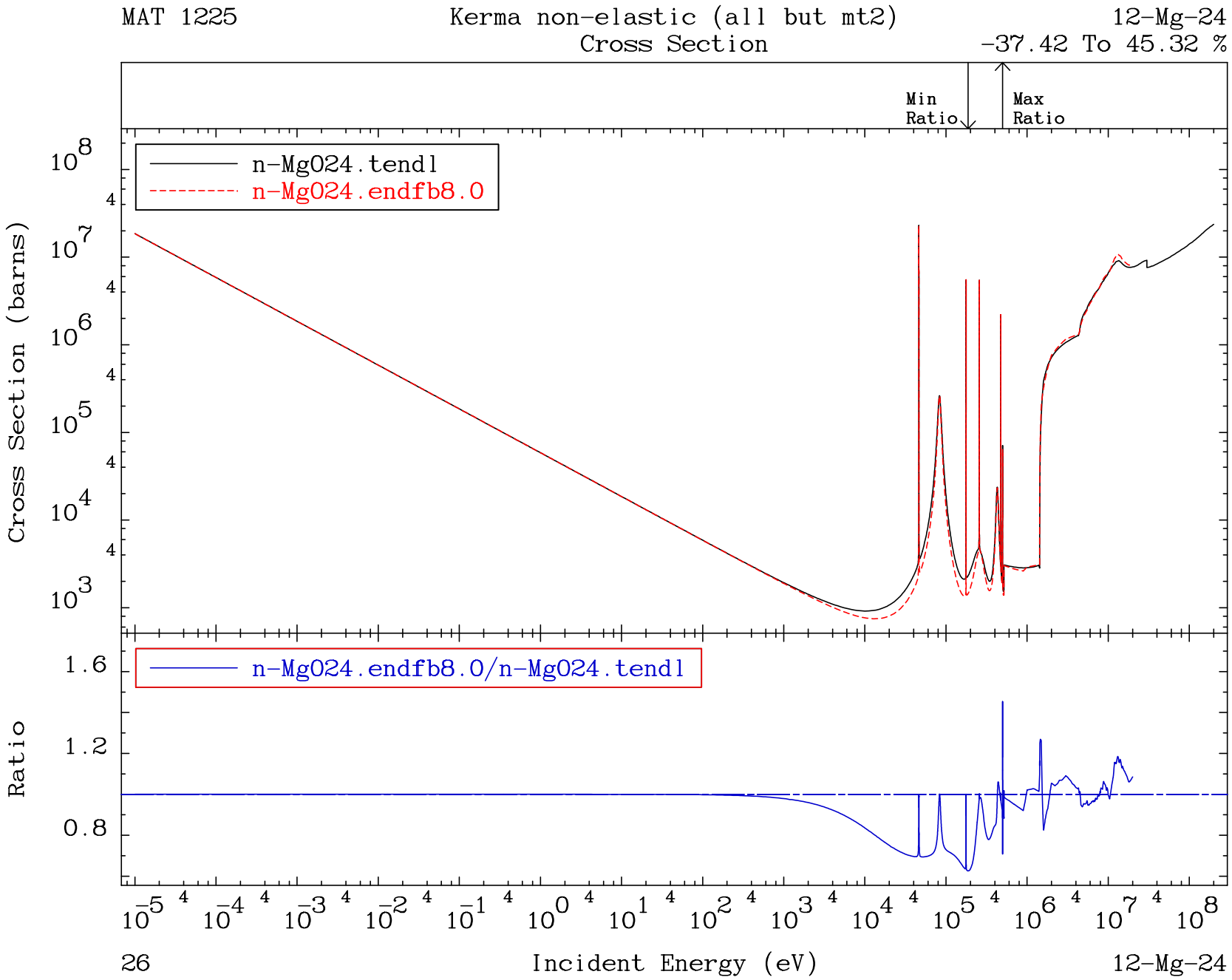

MAT 1225
(n,α)
Cross Section
12-Mg-24
-26.33 To 6907. %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 2.6629 MeV
n-Mg024.endfb8.0 Threshold 4.0000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
12-Mg-24

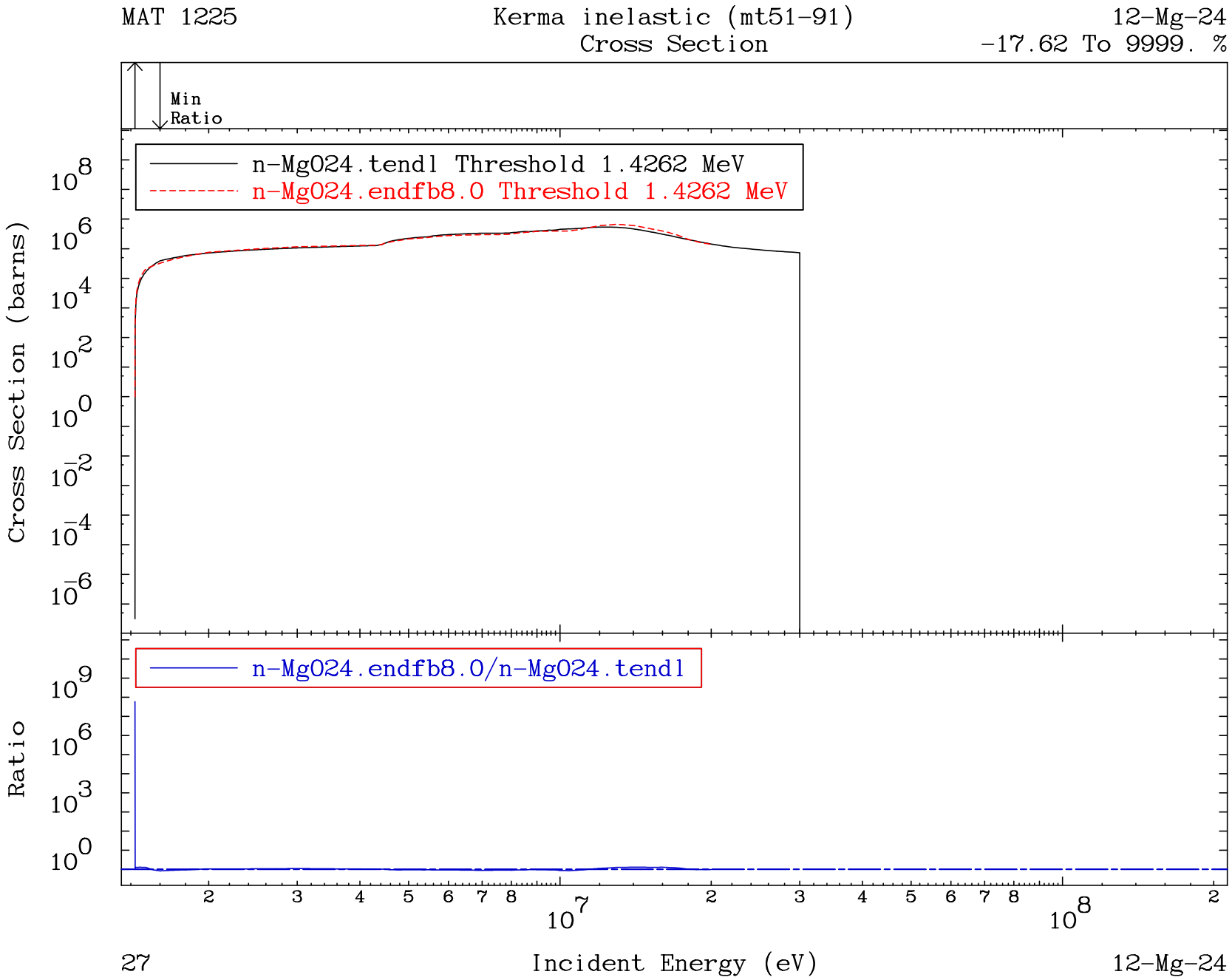

MAT 1225
Hydrogen Production
Cross Section
12-Mg-24
-9.858 To 484.6 %
Min
Ratio
n-Mg024.tendl Threshold 4.9324 MeV
n-Mg024.endfb8.0 Threshold 4.9311 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
6
4
2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
12-Mg-24

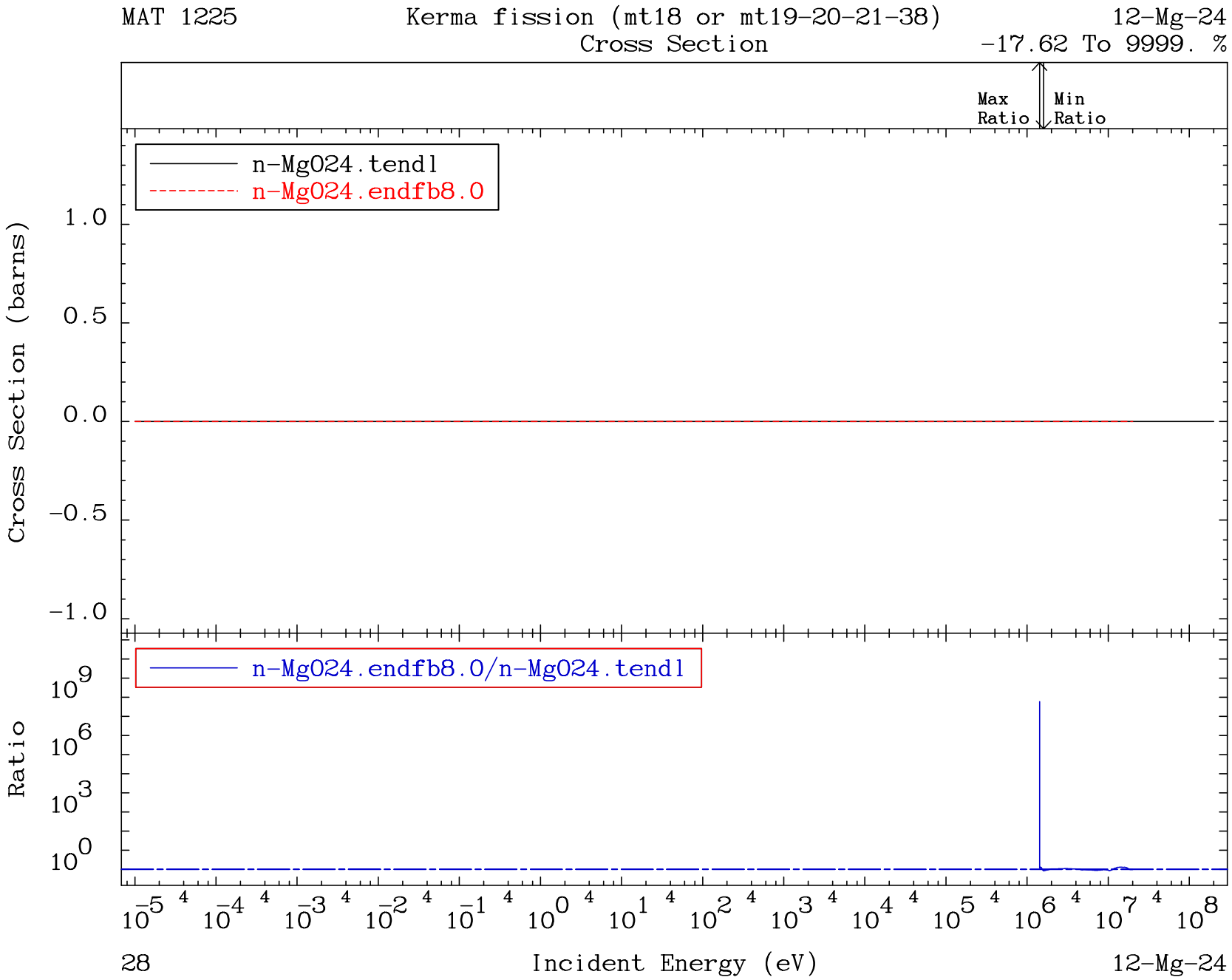

MAT 1225
He-4 Production
Cross Section
12-Mg-24
-100.0 To 6907. %
Min Ratio
Max Ratio
n-Mg024.tendl Threshold 2.6629 MeV
n-Mg024.endfb8.0 Threshold 4.0000 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
10^0
10^-5
10^-10
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
12-Mg-24

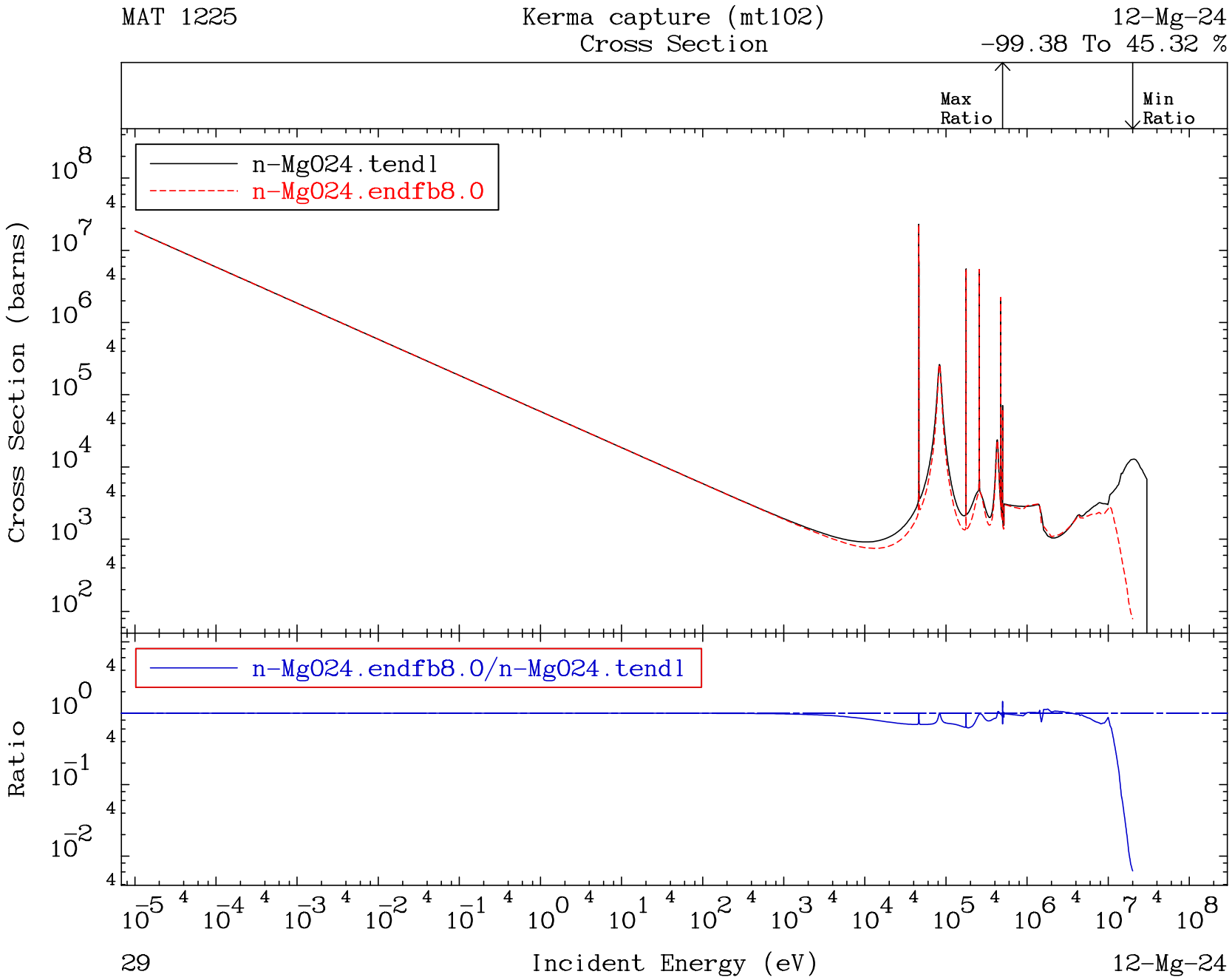

MAT 1225
Kerma total (eV-barns)
Cross Section
12-Mg-24
-69.56 To 221.6 %
Max Ratio
Min Ratio
n-Mg024.tendl
n-Mg024.endfb8.0
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
24
12-Mg-24

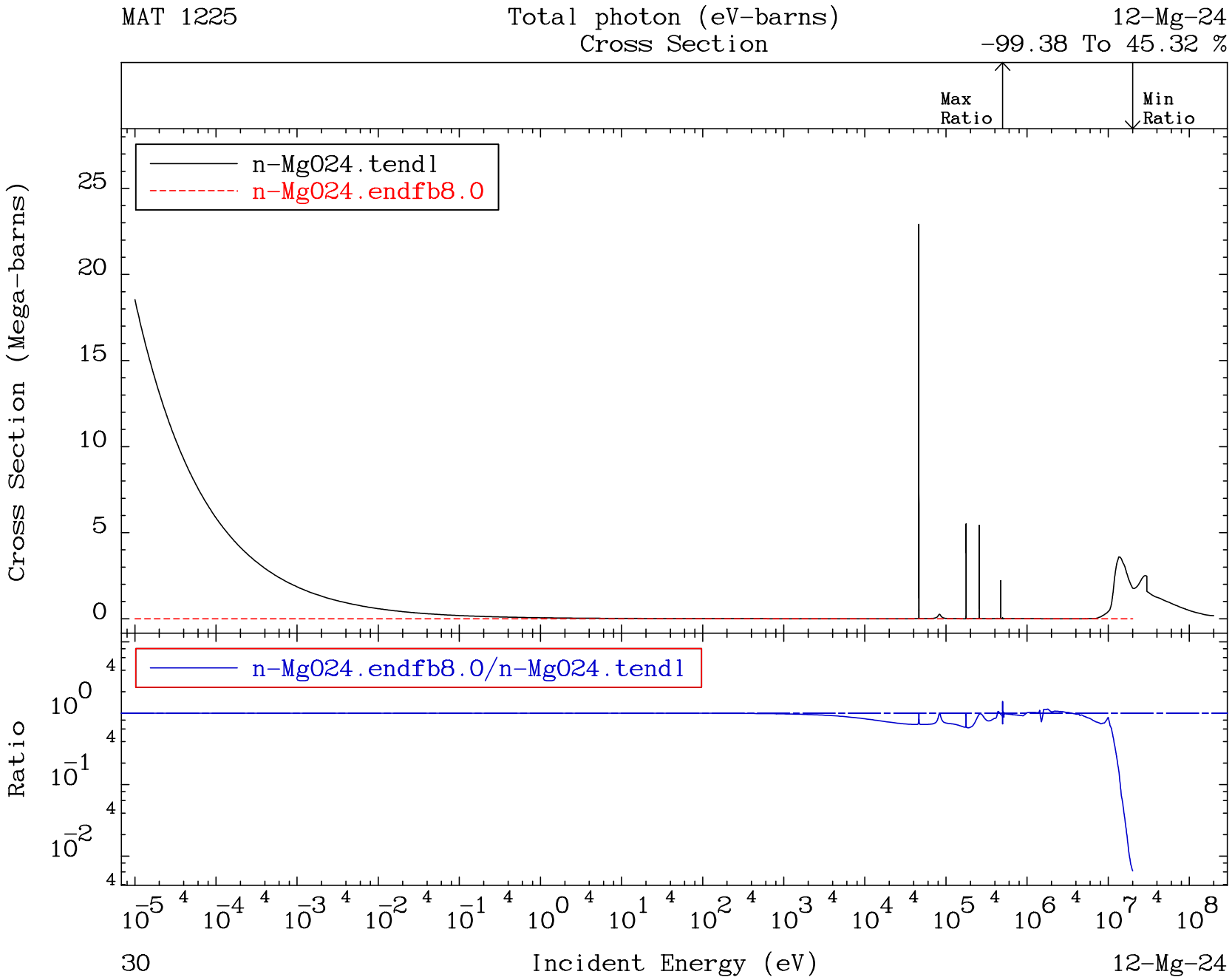

MAT 1225
Kerma elastic
Cross Section
12-Mg-24
-70.63 To 225.6 %
Max Ratio
Min Ratio
n-Mg024.tendl
n-Mg024.endfb8.0
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
25
12-Mg-24

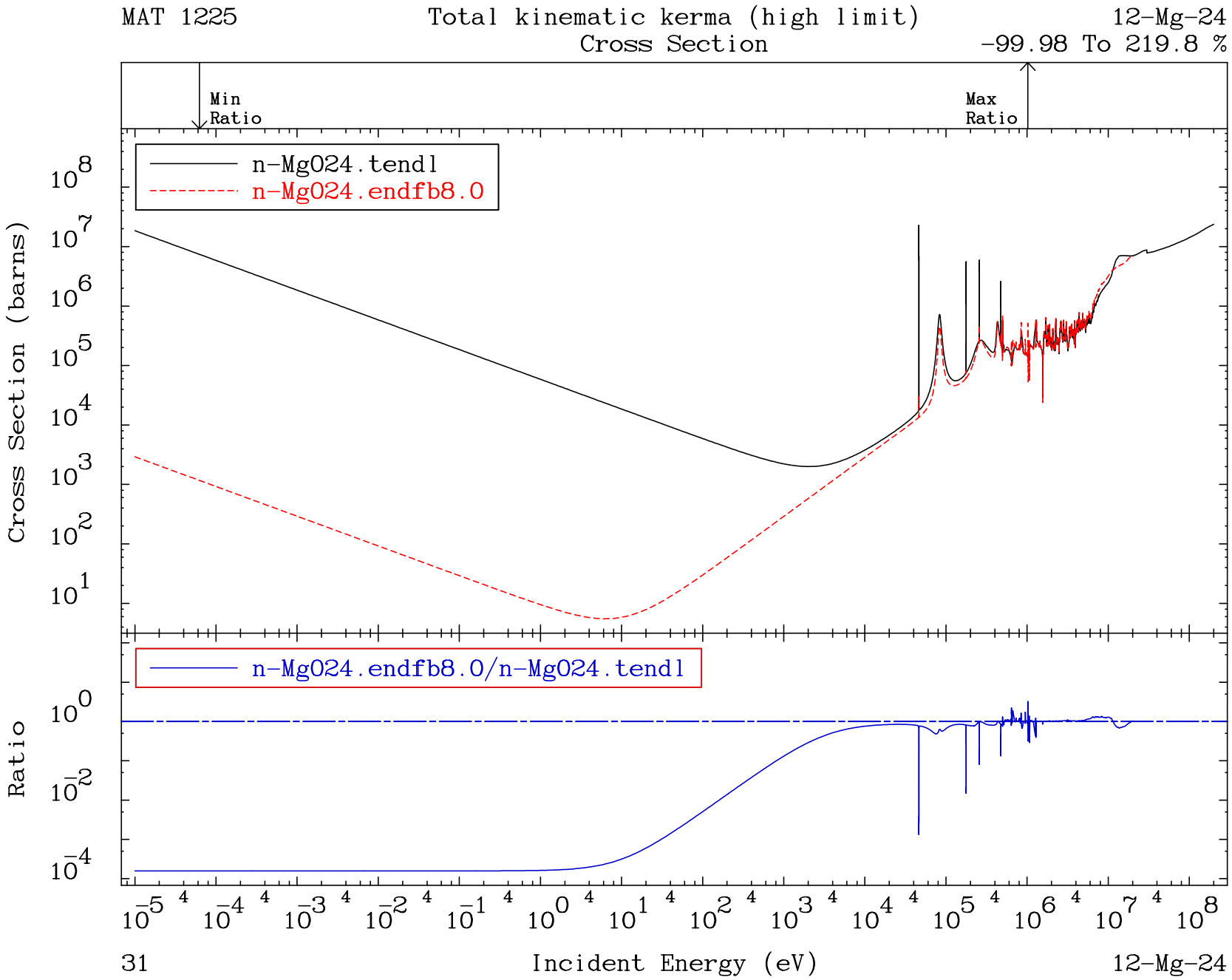

MAT 1225
Kerma non-elastic (all but mt2)
Cross Section
12-Mg-24
-37.42 To 45.32 %
Min Ratio
Max Ratio
n-Mg024.tendl
n-Mg024.endfb8.0
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
26
12-Mg-24

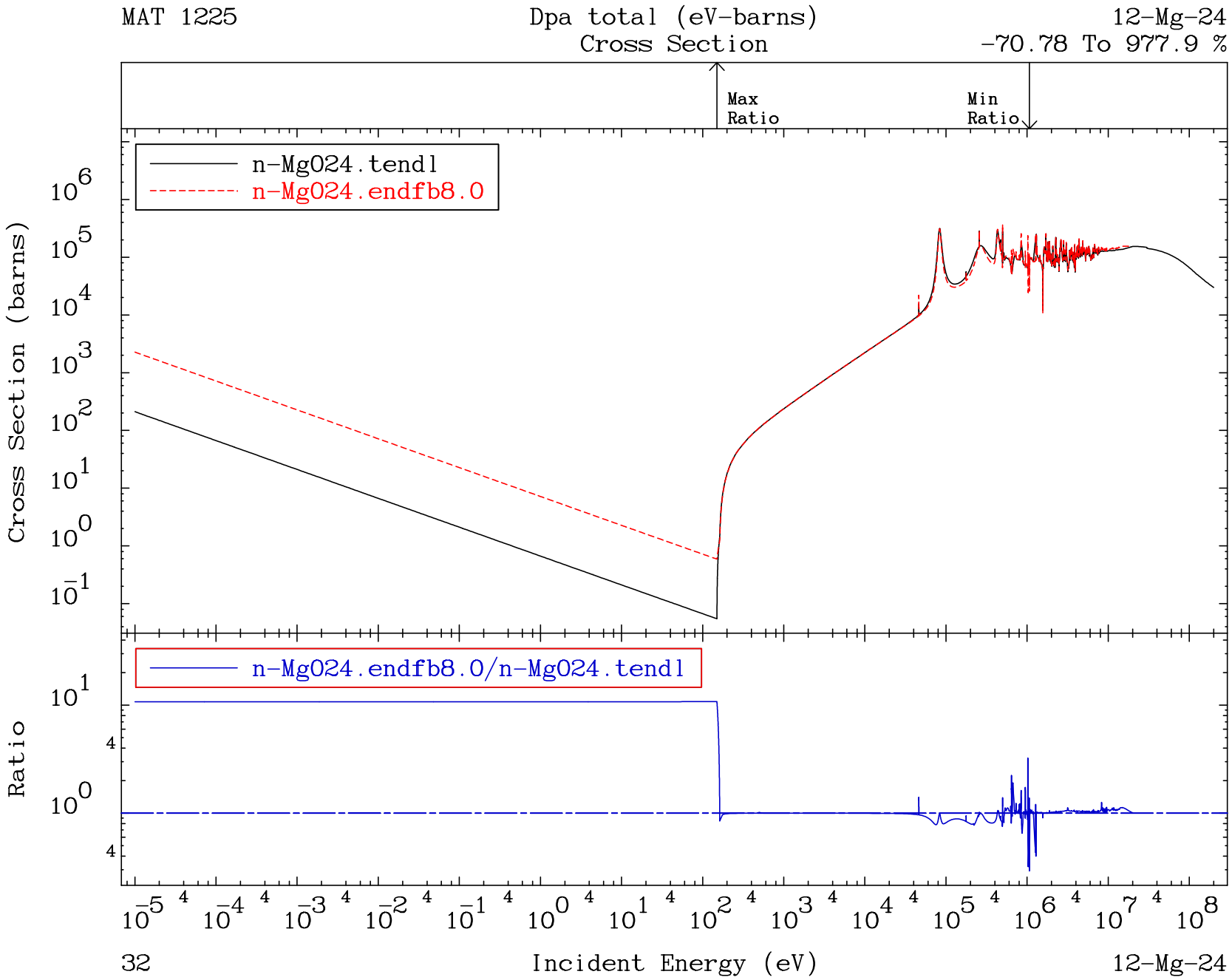

MAT 1225
Kerma inelastic (mt51-91)
Cross Section
12-Mg-24
-17.62 To 9999. %
Min
Ratio
n-Mg024.tendl Threshold 1.4262 MeV
n-Mg024.endfb8.0 Threshold 1.4262 MeV
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
27
12-Mg-24

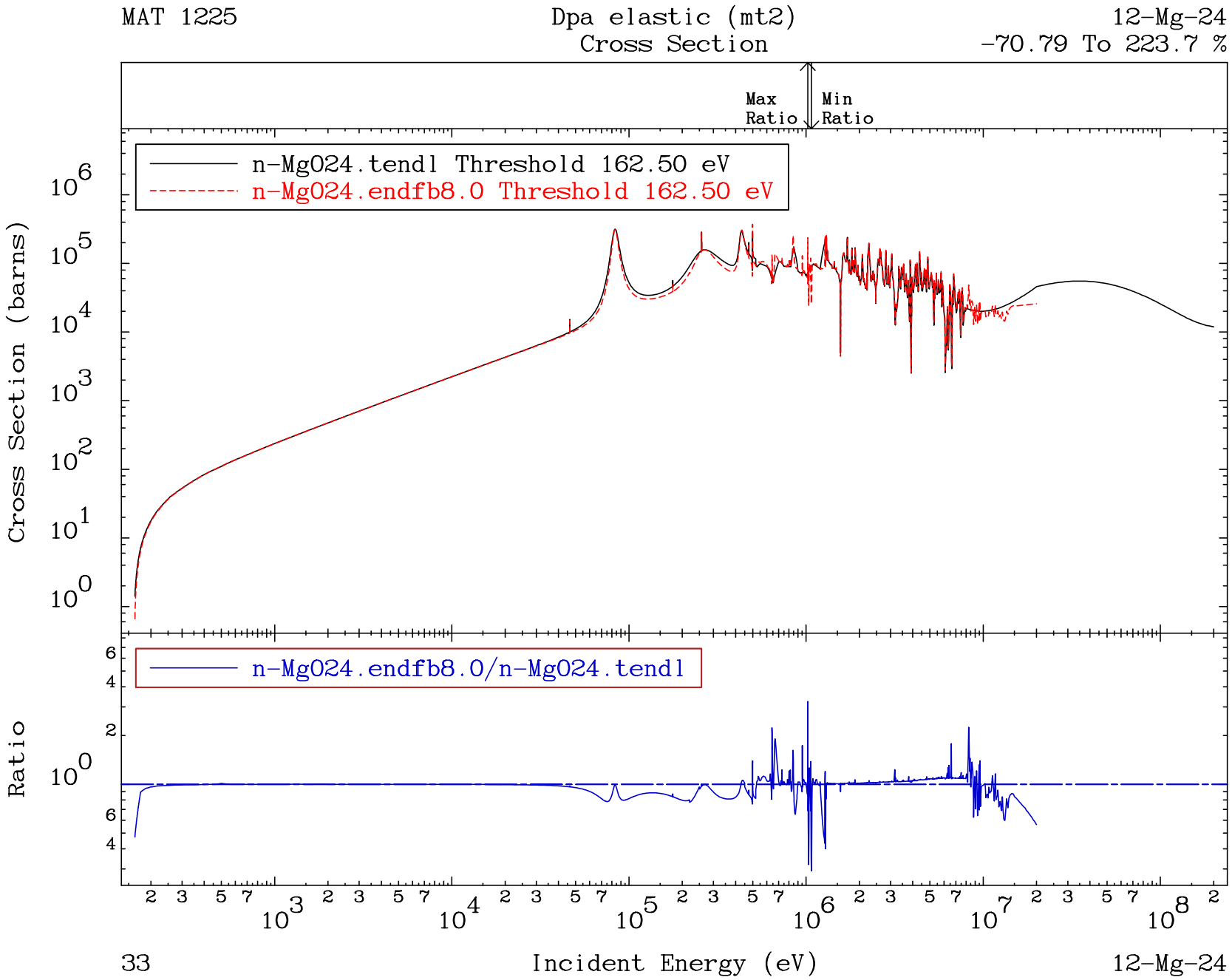

MAT 1225
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
12-Mg-24
-17.62 To 9999. %
Max Ratio
Min Ratio
n-Mg024.tendl
n-Mg024.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
10^9
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
28
Incident Energy (eV)
12-Mg-24

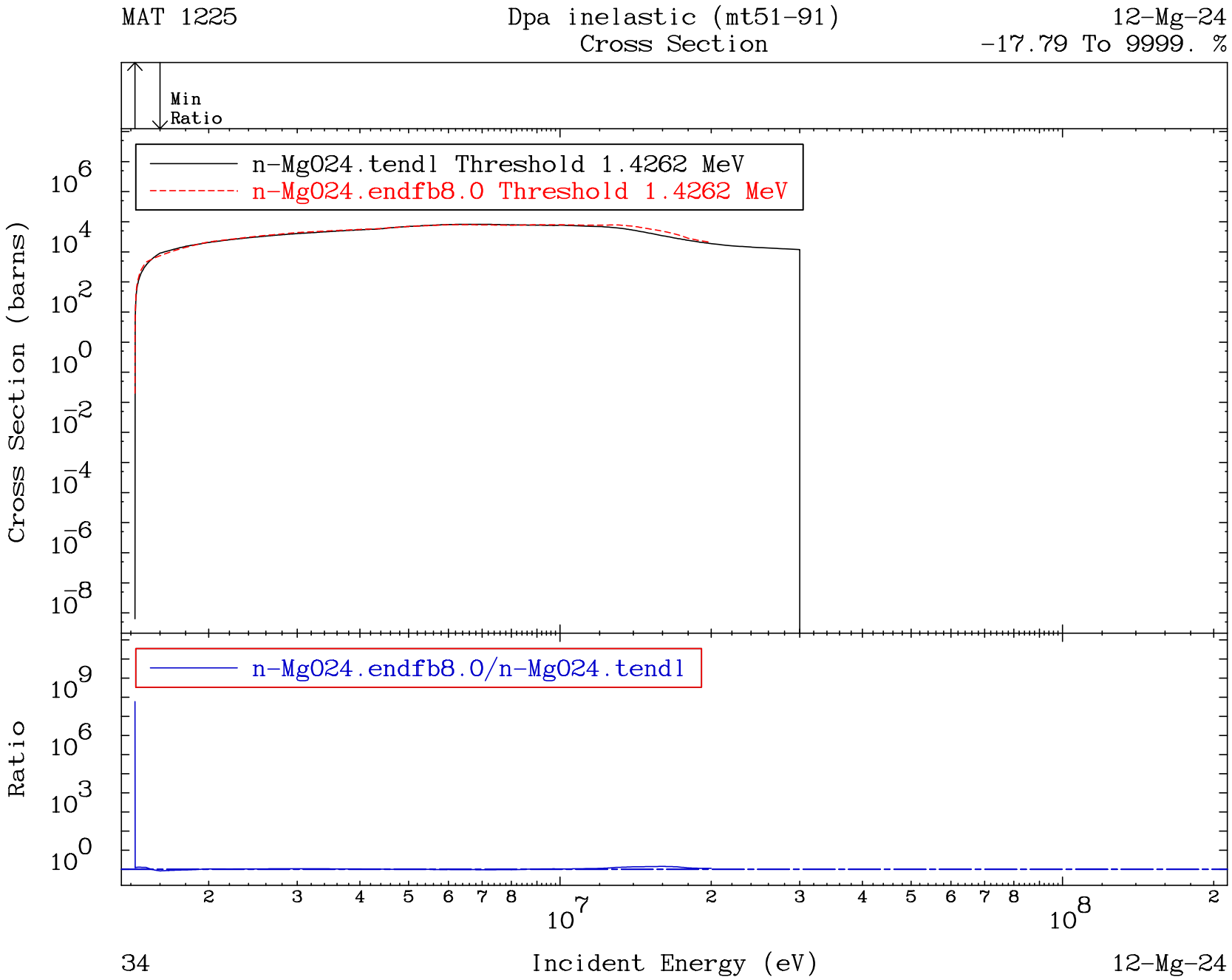

MAT 1225
Kerma capture (mt102)
Cross Section
12-Mg-24
-99.38 To 45.32 %
Max Ratio
Min Ratio
n-Mg024.tendl
n-Mg024.endfb8.0
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
29
12-Mg-24

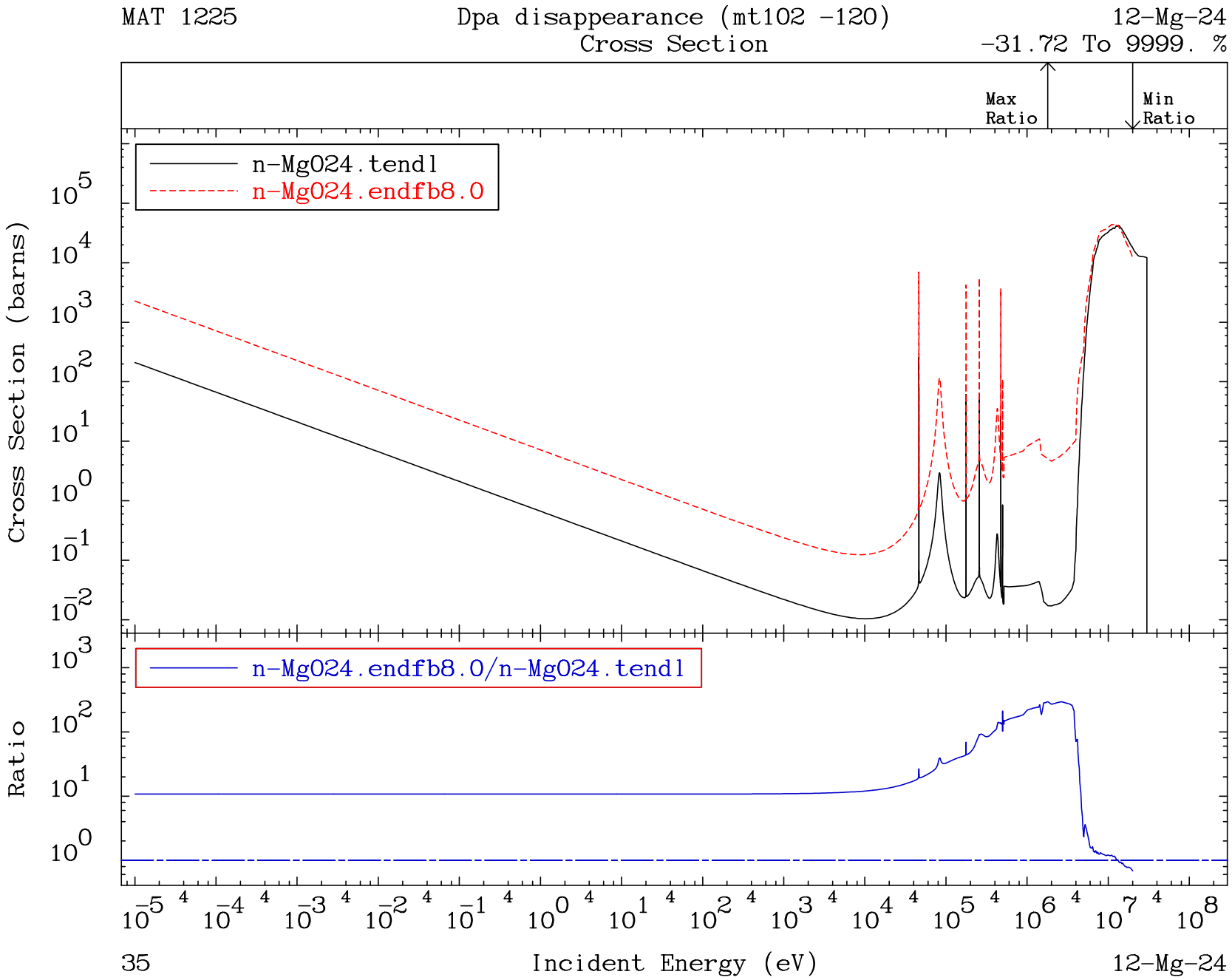

MAT 1225
Total photon (eV-barns)
Cross Section
12-Mg-24
-99.38 To 45.32 %
Max Ratio
Min Ratio
n-Mg024.tendl
n-Mg024.endfb8.0
Cross Section (Mega-barns)
25
20
15
10
5
0
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
10^0
10^-1
10^-2
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
30
Incident Energy (eV)
12-Mg-24


MAT 1225
Total kinematic kerma (high limit)
Cross Section
12-Mg-24
-99.98 To 219.8 %
Min Ratio
Max Ratio
n-Mg024.tendl
n-Mg024.endfb8.0
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
31
12-Mg-24


MAT 1225
Dpa total (eV-barns)
Cross Section
12-Mg-24
-70.78 To 977.9 %
Max Ratio
Min Ratio
n-Mg024.tendl
n-Mg024.endfb8.0
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
32
12-Mg-24


MAT 1225
Dpa elastic (mt2)
Cross Section
12-Mg-24
-70.79 To 223.7 %
Max Ratio
Min Ratio
n-Mg024.tendl Threshold 162.50 eV
n-Mg024.endfb8.0 Threshold 162.50 eV
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
33
12-Mg-24


MAT 1225
Dpa inelastic (mt51-91)
Cross Section
12-Mg-24
-17.79 To 9999. %
Min
Ratio
n-Mg024.tendl Threshold 1.4262 MeV
n-Mg024.endfb8.0 Threshold 1.4262 MeV
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
Incident Energy (eV)
34
12-Mg-24


MAT 1225
Dpa disappearance (mt102 -120)
Cross Section
12-Mg-24
-31.72 To 9999. %
Max Ratio
Min Ratio
n-Mg024.tendl
n-Mg024.endfb8.0
Cross Section (barns)
n-Mg024.endfb8.0/n-Mg024.tendl
Ratio
35
Incident Energy (eV)
12-Mg-24