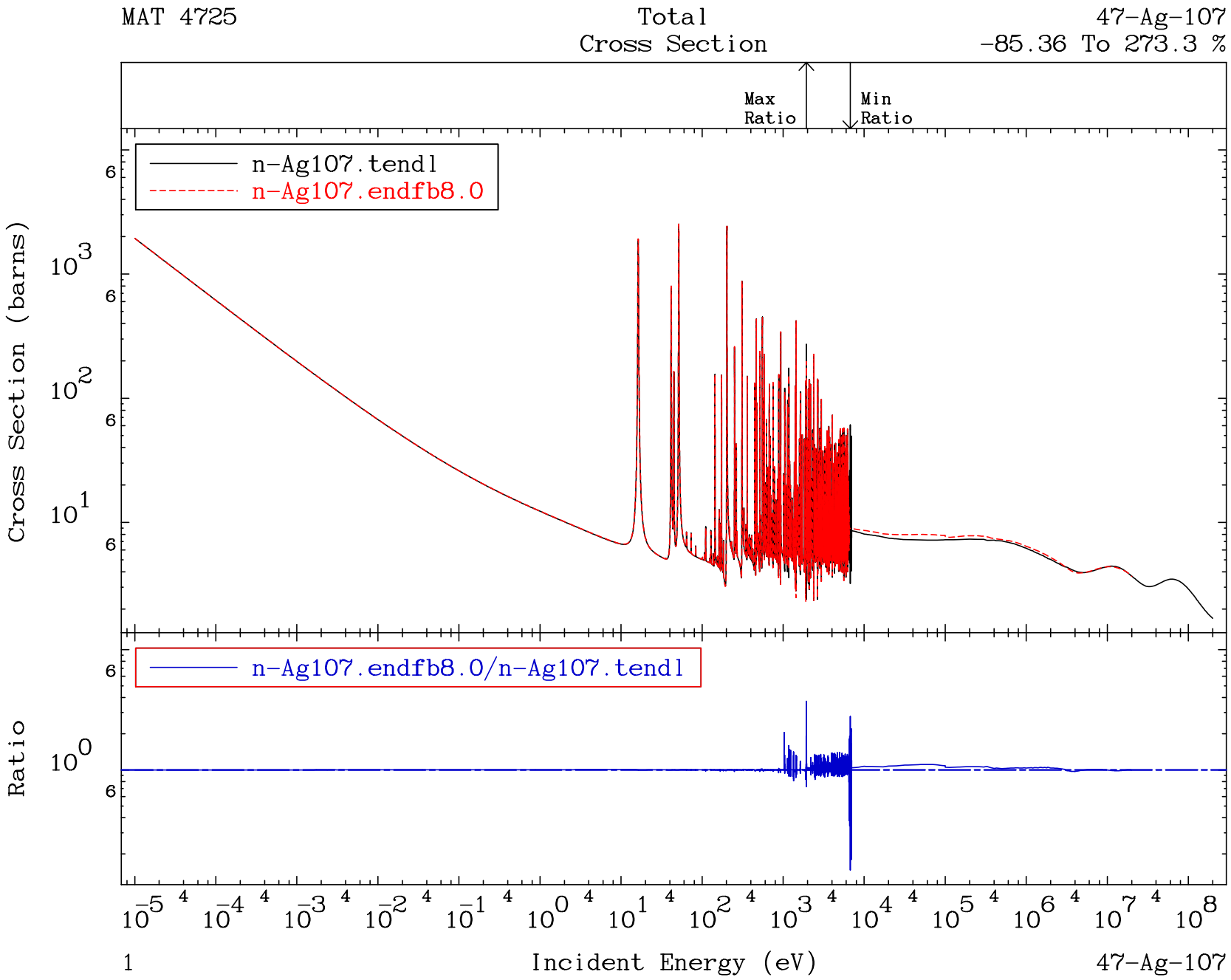
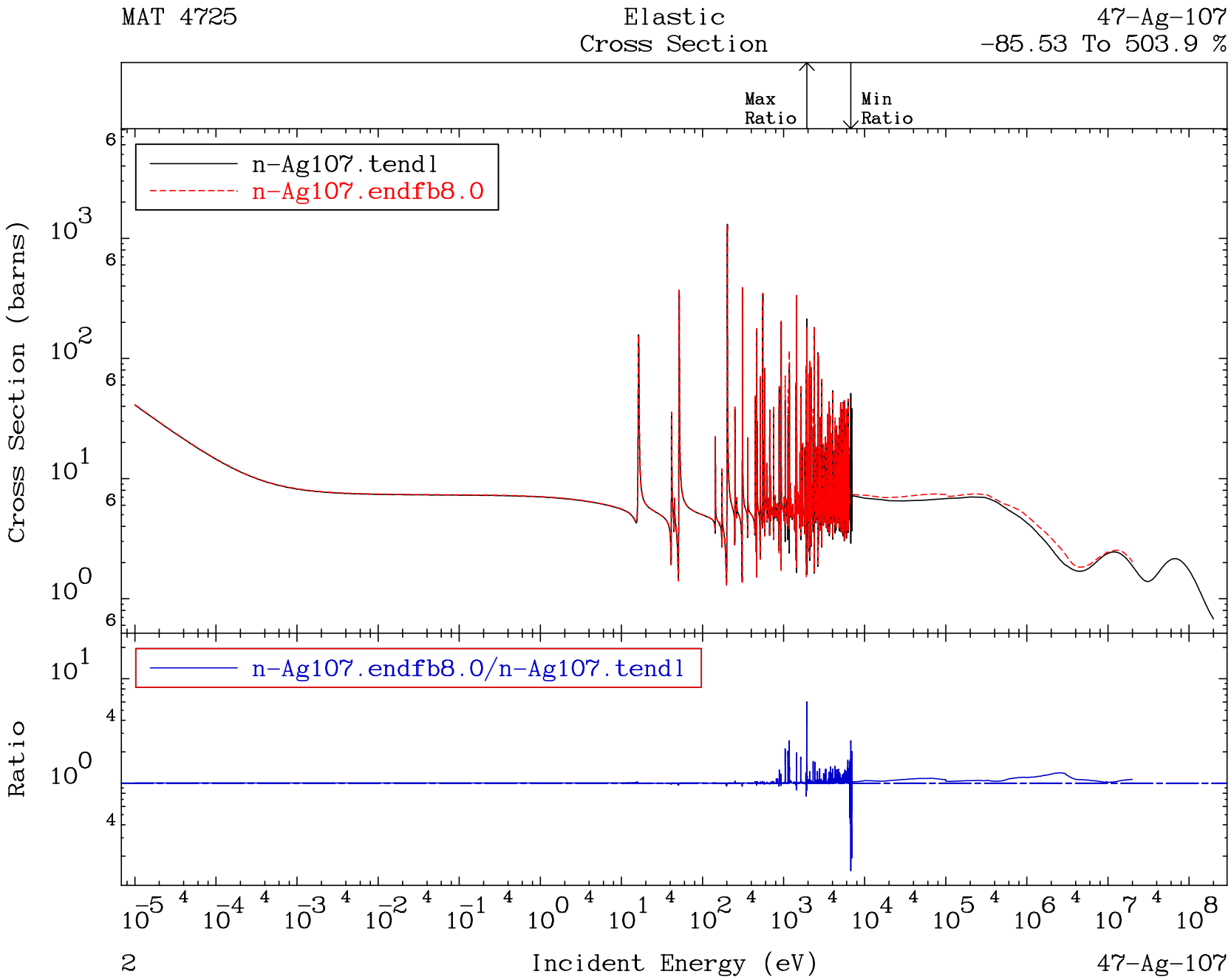
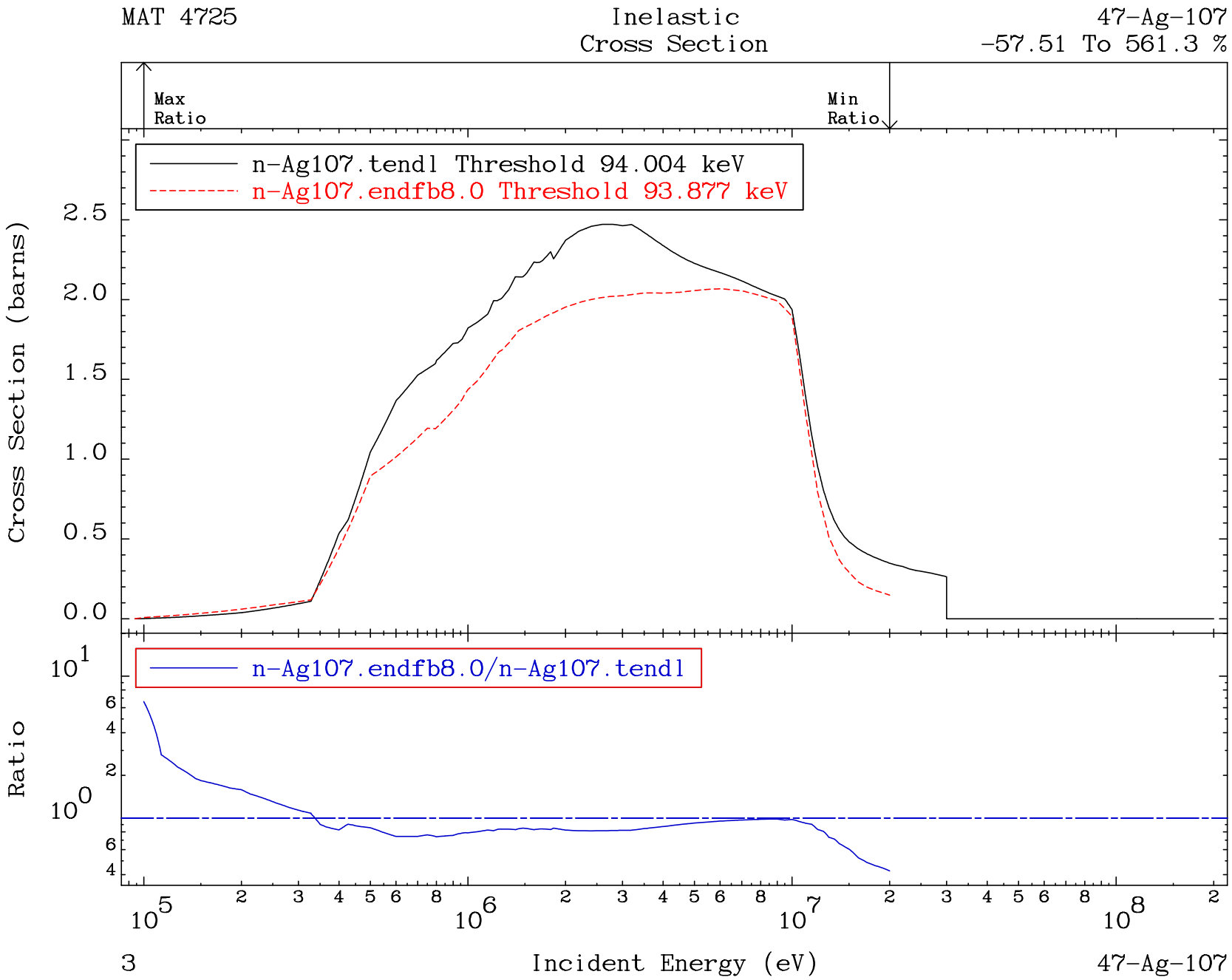
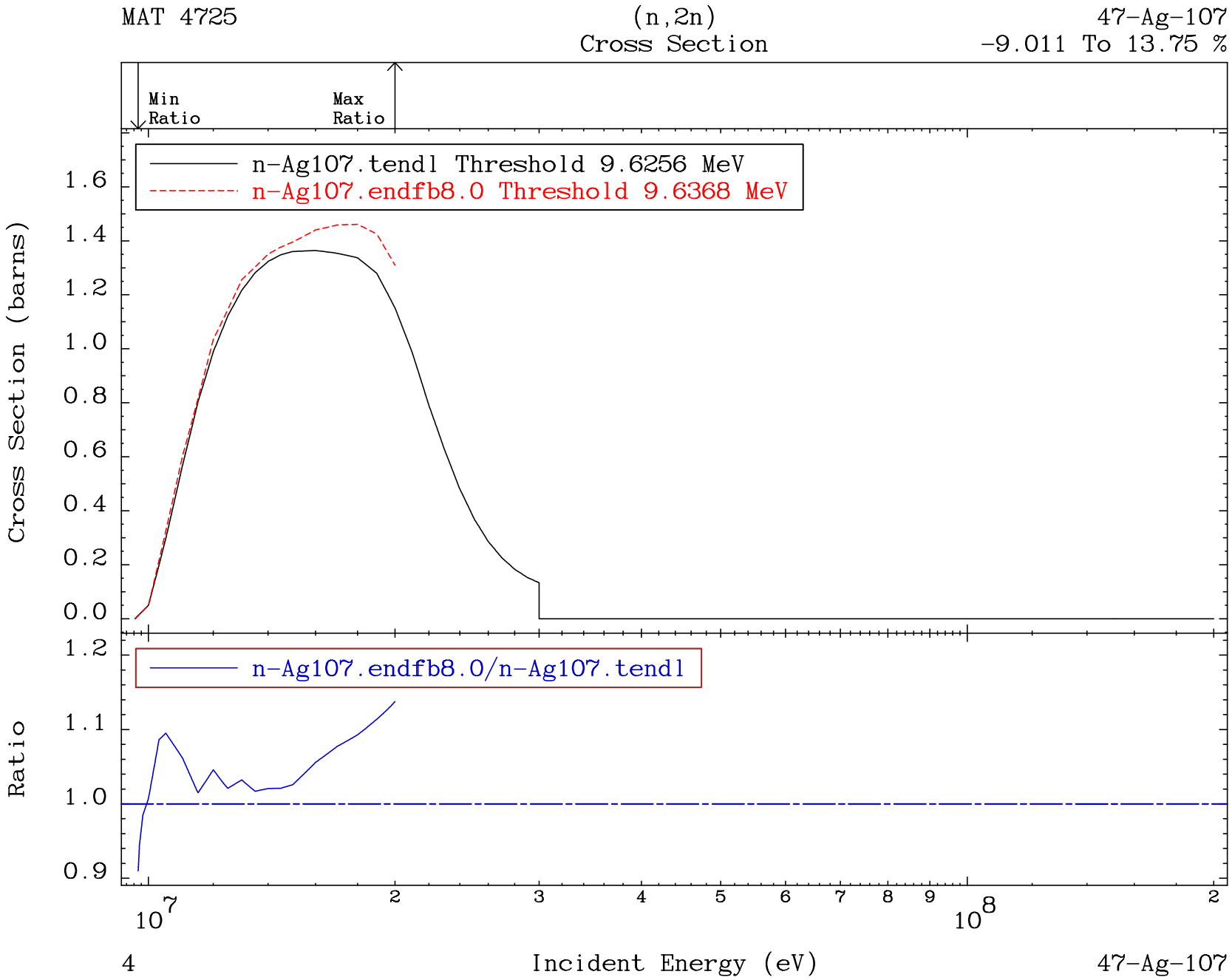
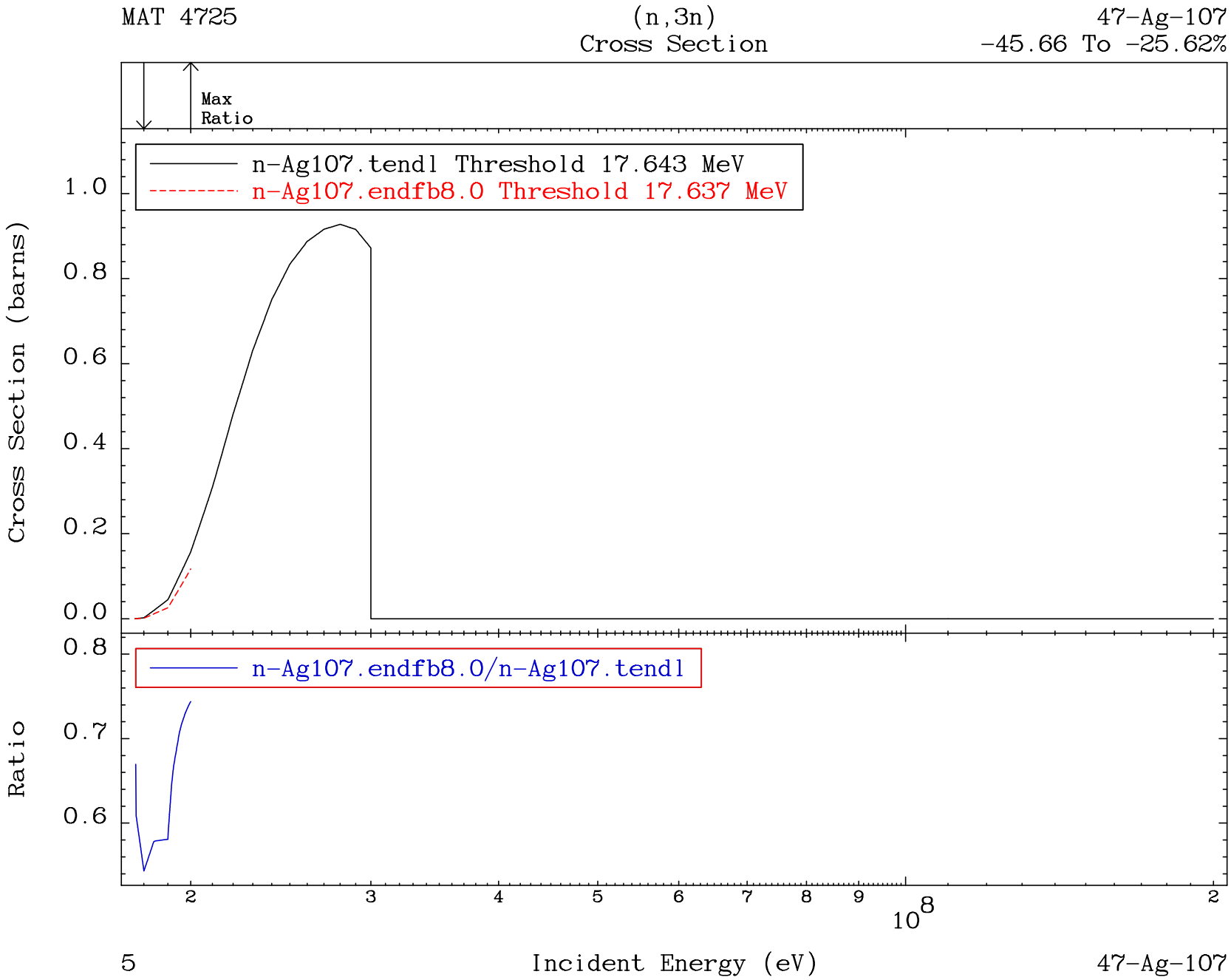
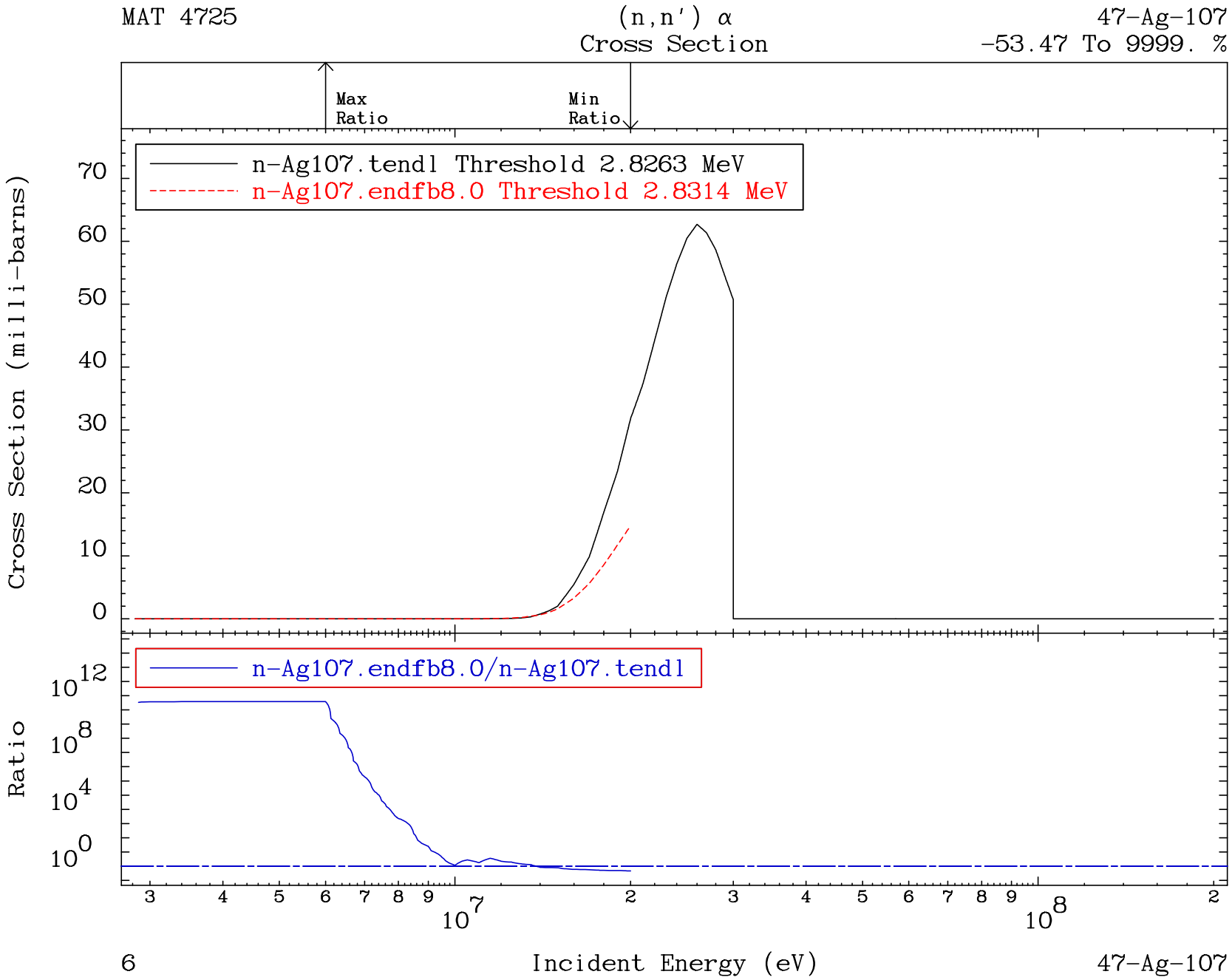

MAT 4725
Total
Cross Section
47-Ag-107
-85.36 To 273.3 %
Max
Ratio
Min
Ratio
n-Ag107.tendl
n-Ag107.endfb8.0
Cross Section (barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
Incident Energy (eV)
1
47-Ag-107

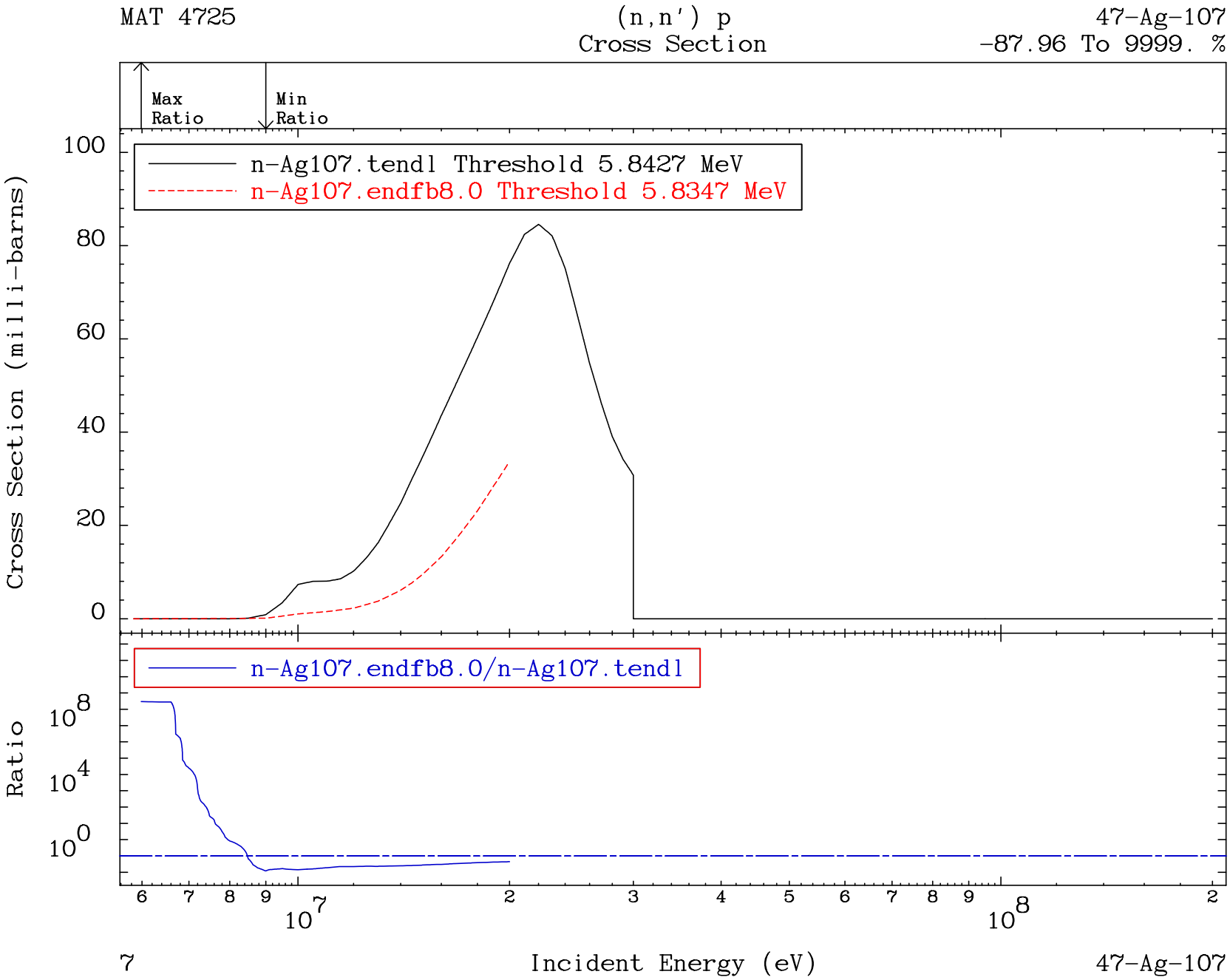

MAT 4725
Elastic
Cross Section
47-Ag-107
-85.53 To 503.9 %
Max
Ratio
Min
Ratio
n-Ag107.tendl
n-Ag107.endfb8.0
Cross Section (barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
Incident Energy (eV)
2
47-Ag-107

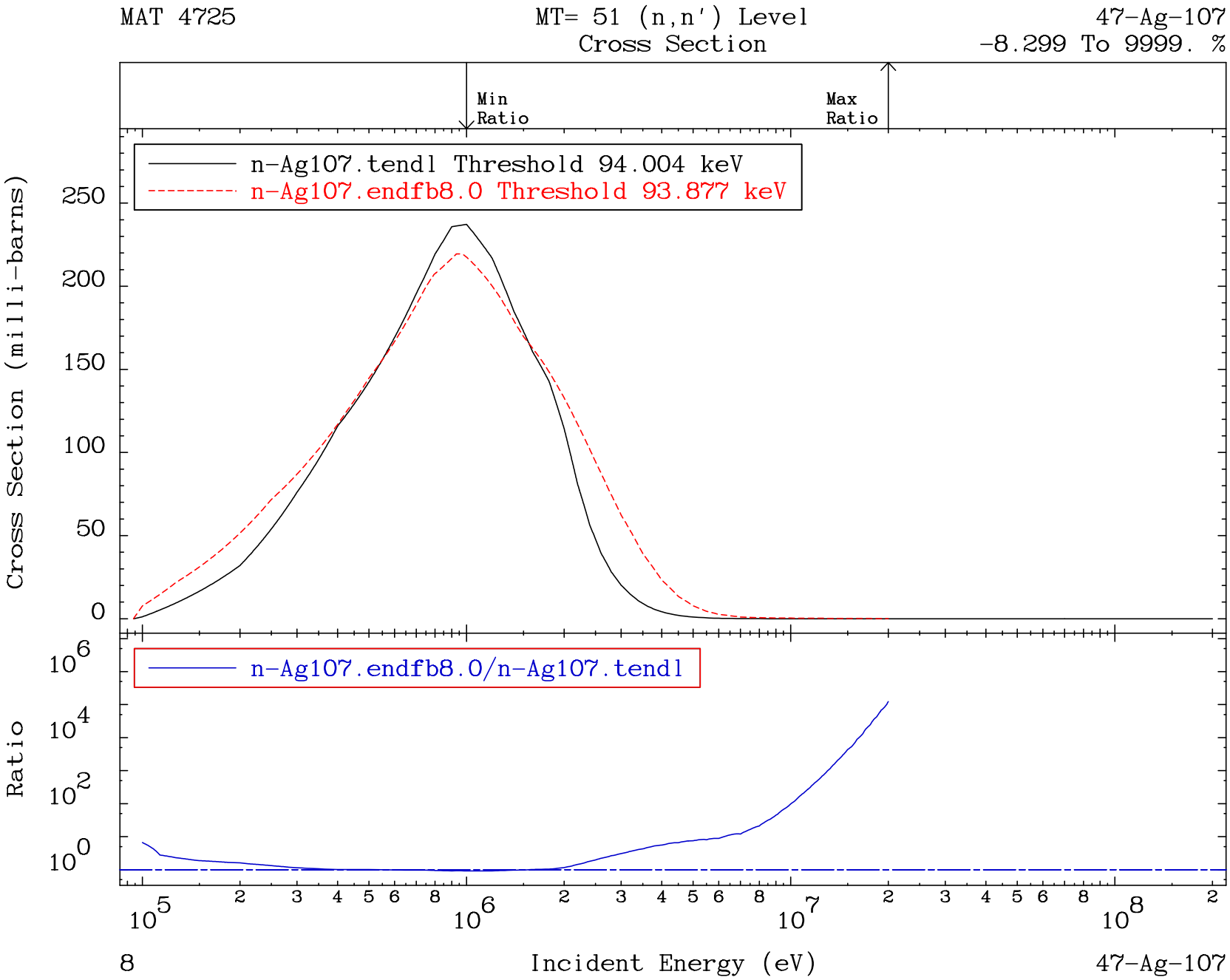

MAT 4725
Inelastic
Cross Section
47-Ag-107
-57.51 To 561.3 %
Max
Ratio
Min
Ratio
n-Ag107.tendl Threshold 94.004 keV
n-Ag107.endfb8.0 Threshold 93.877 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^1
10^0
6
4
2
6
4
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
47-Ag-107

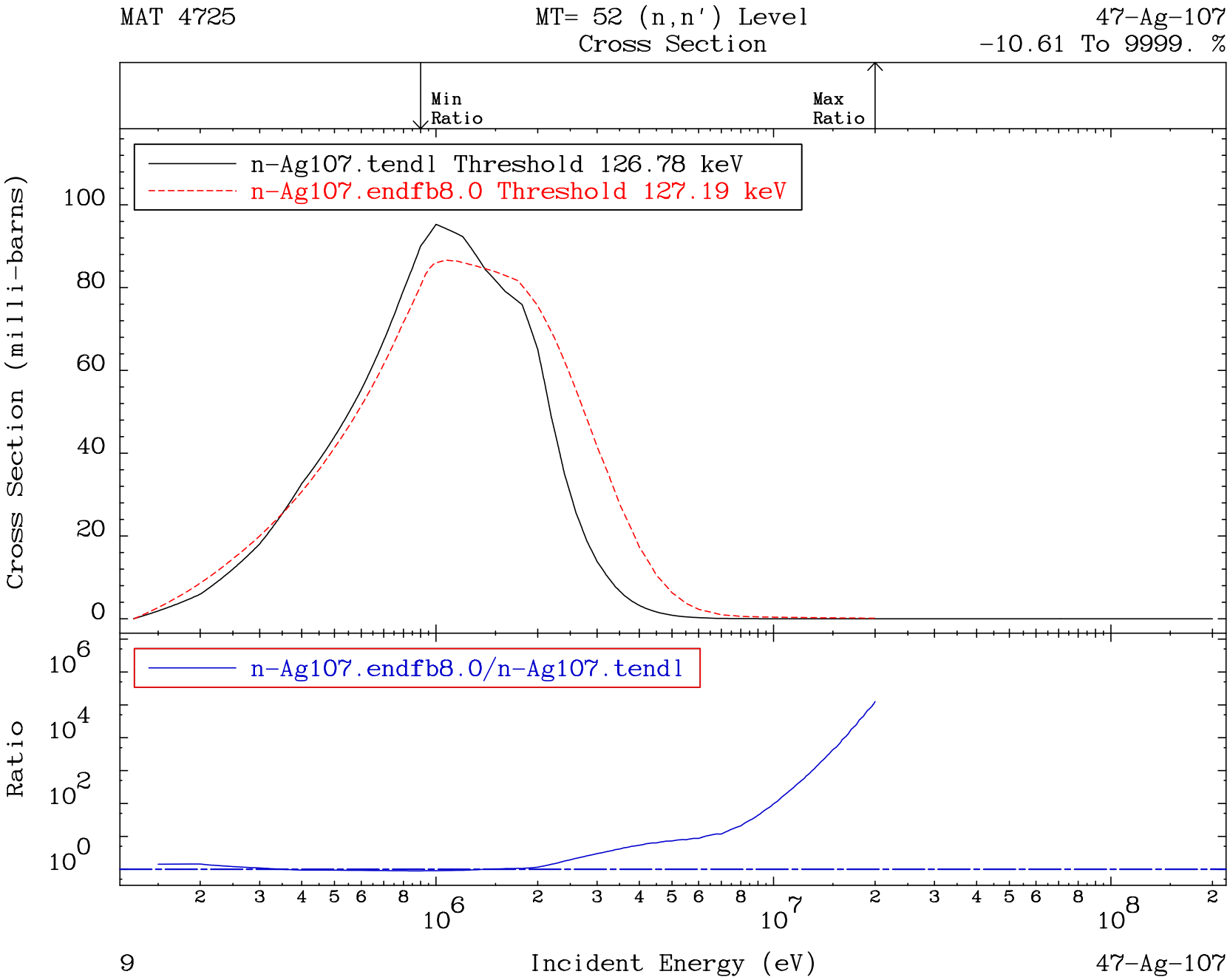

MAT 4725
(n,2n)
Cross Section
47-Ag-107
-9.011 To 13.75 %
Min Ratio
Max Ratio
n-Ag107.tendl Threshold 9.6256 MeV
n-Ag107.endfb8.0 Threshold 9.6368 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
1.2
1.1
1.0
0.9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
47-Ag-107

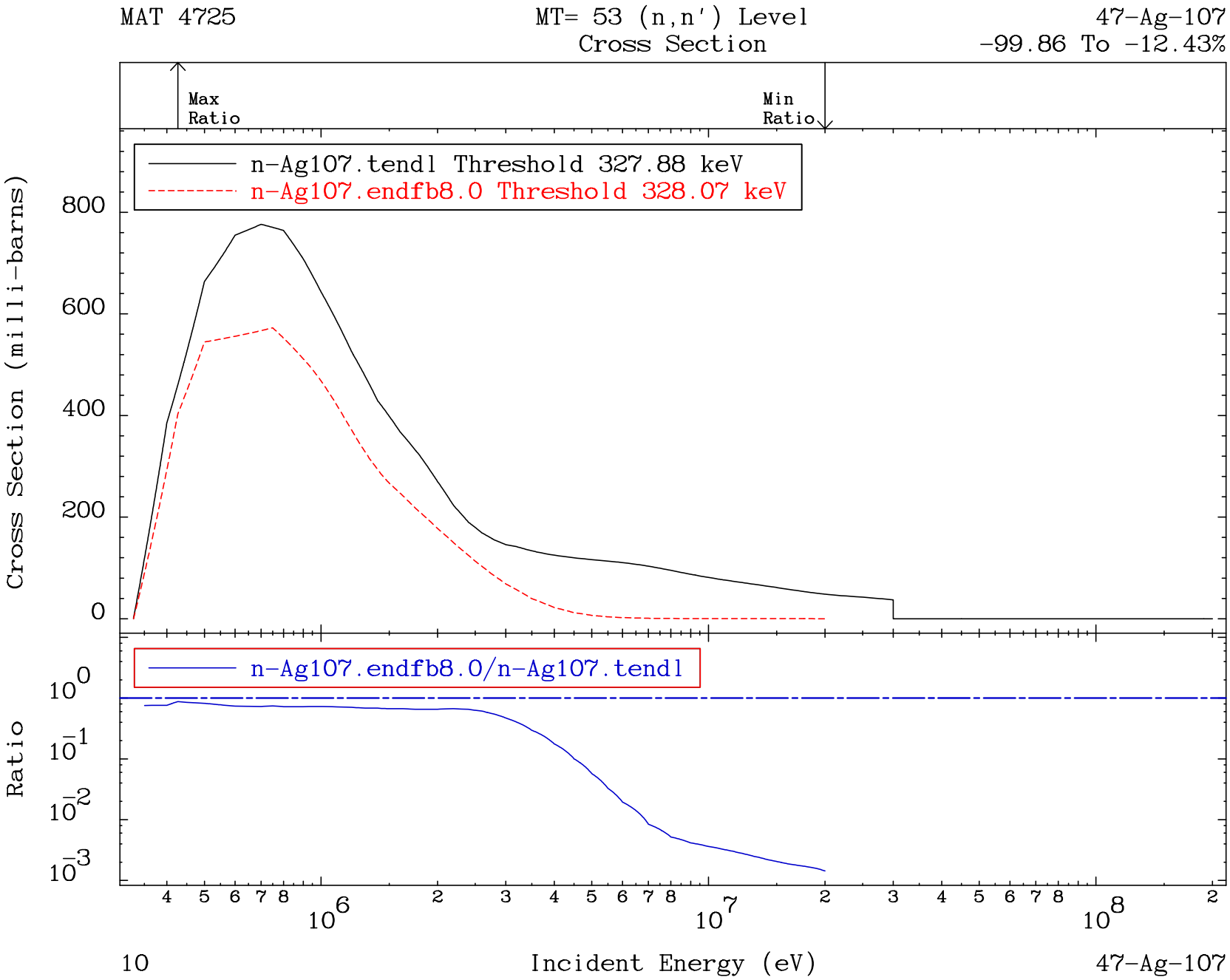

MAT 4725
(n,3n)
Cross Section
47-Ag-107
-45.66 To -25.62%
Max
Ratio
n-Ag107.tendl Threshold 17.643 MeV
n-Ag107.endfb8.0 Threshold 17.637 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
0.8
0.7
0.6
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
47-Ag-107

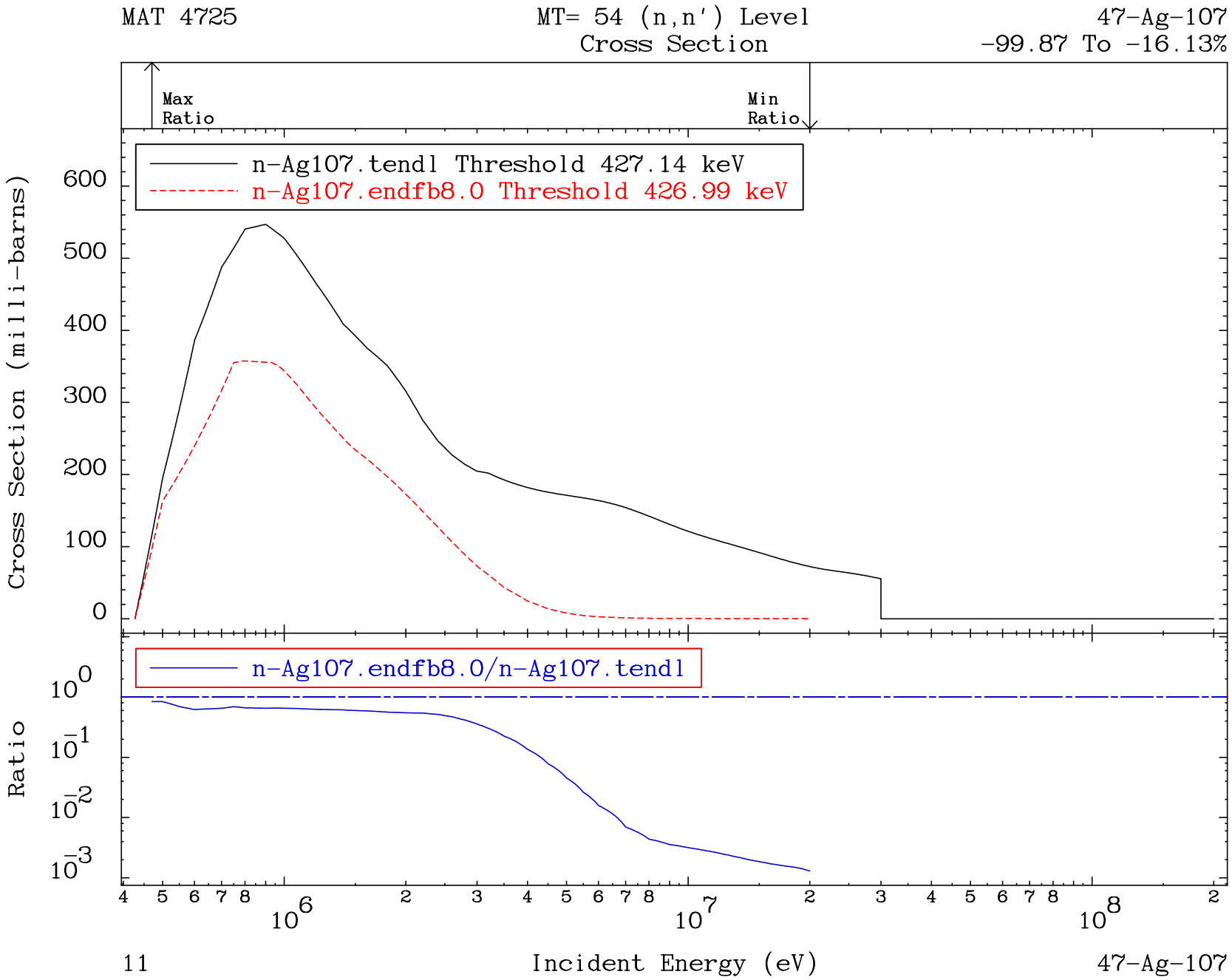

MAT 4725
(n,n') α
Cross Section
47-Ag-107
-53.47 To 9999. %
Max Ratio
Min Ratio
n-Ag107.tendl Threshold 2.8263 MeV
n-Ag107.endfb8.0 Threshold 2.8314 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^12
10^8
10^4
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
47-Ag-107

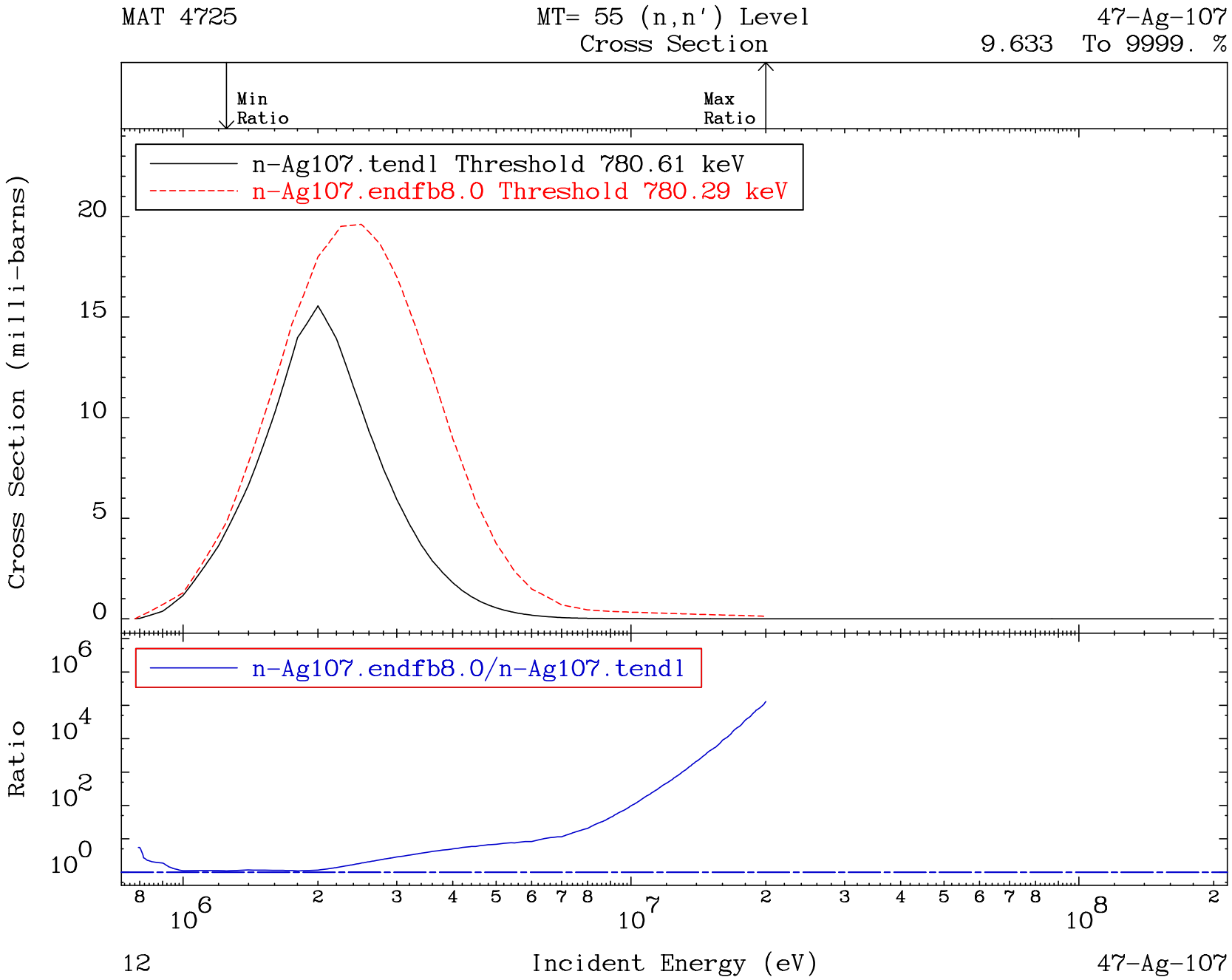

MAT 4725
(n,n') p
Cross Section
47-Ag-107
-87.96 To 9999. %
Max Ratio
Min Ratio
n-Ag107.tendl Threshold 5.8427 MeV
n-Ag107.endfb8.0 Threshold 5.8347 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^8
10^4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
47-Ag-107

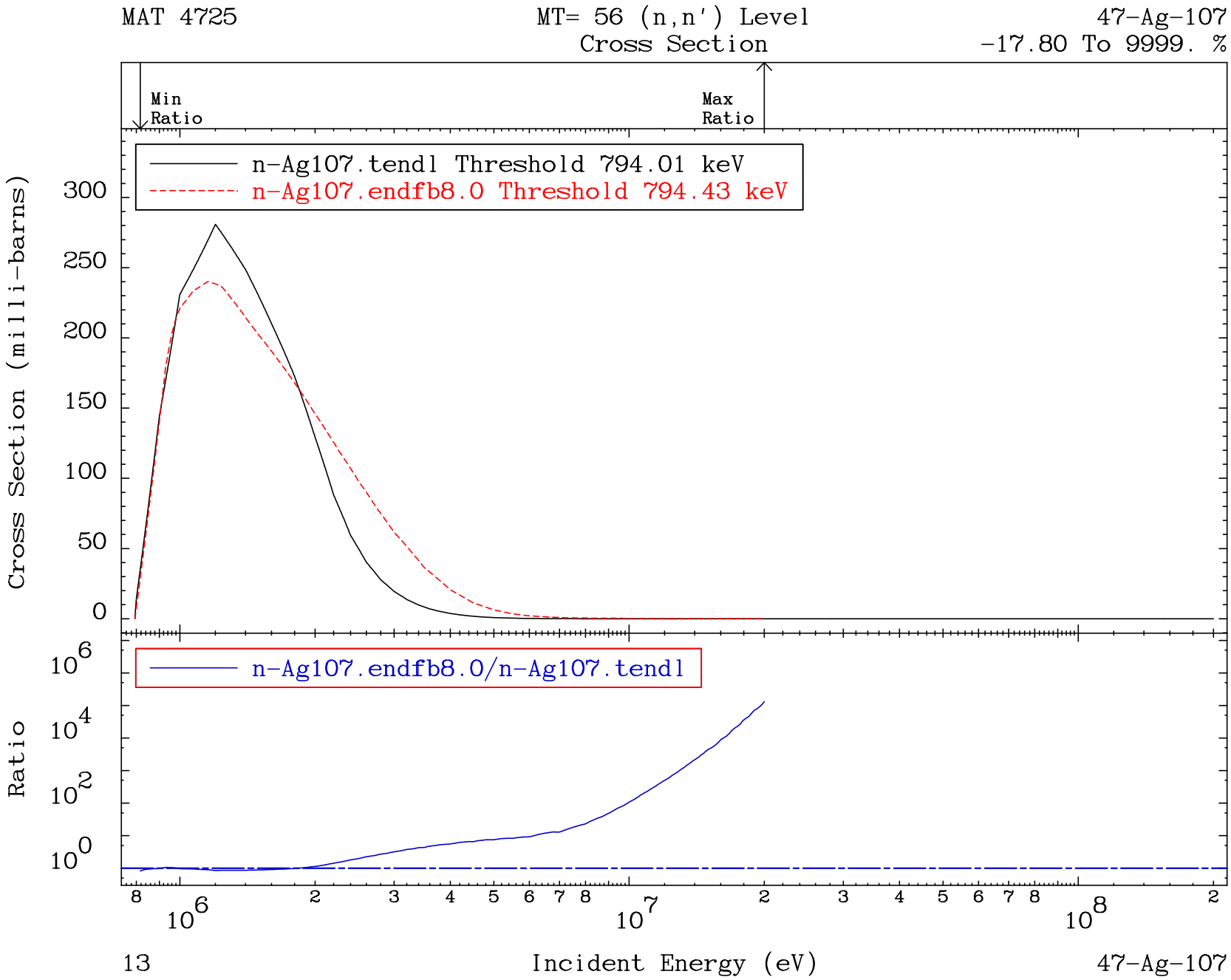

MAT 4725
MT= 51 (n,n') Level
Cross Section
47-Ag-107
-8.299 To 9999. %
Min
Ratio
Max
Ratio
n-Ag107.tendl Threshold 94.004 keV
n-Ag107.endfb8.0 Threshold 93.877 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^6
10^4
10^2
10^0
10^5
2 3 4 5 6 8
10^6
2 3 4 5 6 8
10^7
2 3 4 5 6 8
10^8
2
8
Incident Energy (eV)
47-Ag-107

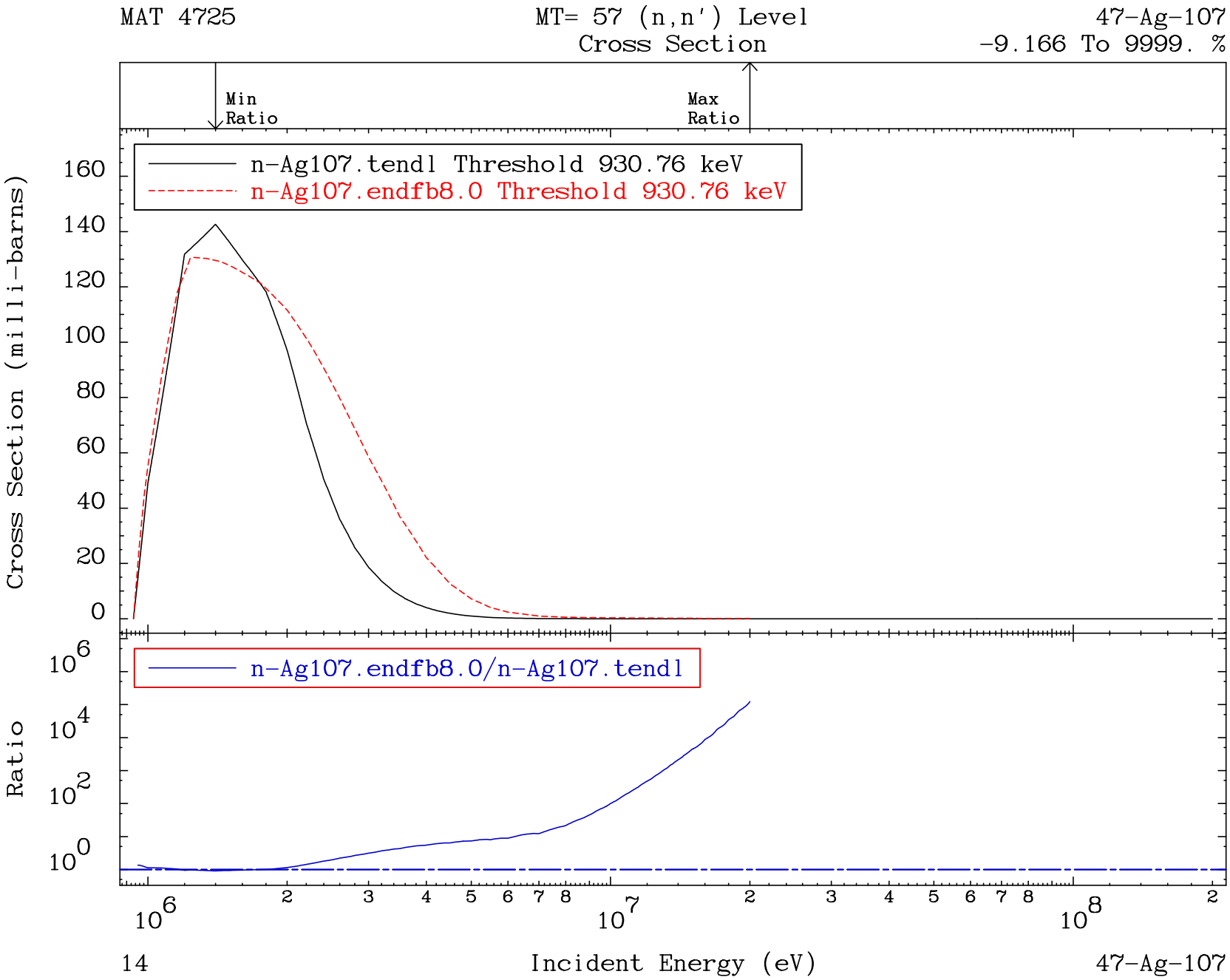

MAT 4725
MT= 52 (n,n') Level
Cross Section
47-Ag-107
-10.61 To 9999. %
Min
Ratio
Max
Ratio
n-Ag107.tendl Threshold 126.78 keV
n-Ag107.endfb8.0 Threshold 127.19 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^6
10^4
10^2
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
9
Incident Energy (eV)
47-Ag-107

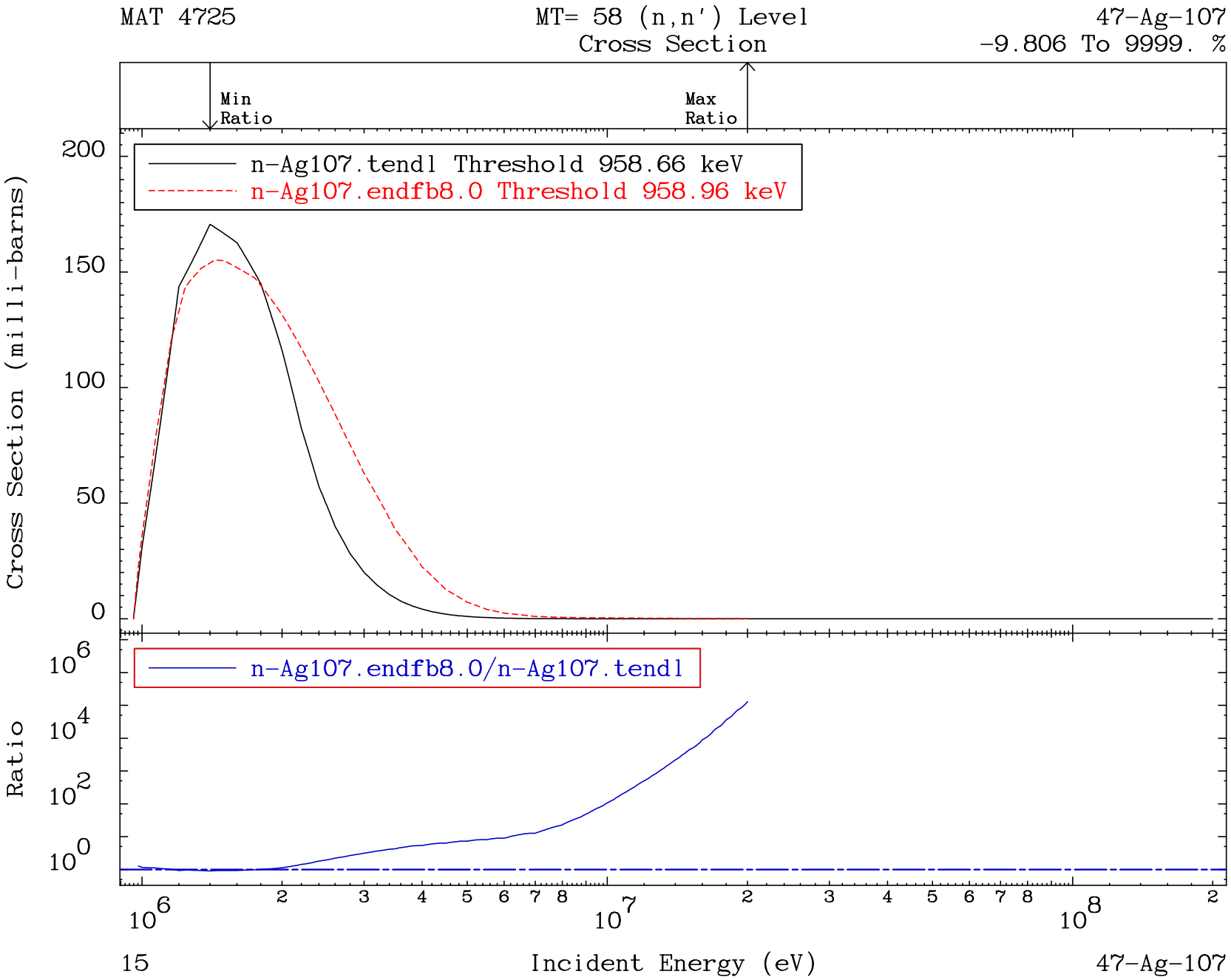

MAT 4725
MT= 53 (n,n') Level
Cross Section
47-Ag-107
-99.86 To -12.43%
Max
Ratio
Min
Ratio
n-Ag107.tendl Threshold 327.88 keV
n-Ag107.endfb8.0 Threshold 328.07 keV
Cross Section (milli-barns)
800
600
400
200
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^0
10^-1
10^-2
10^-3
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
47-Ag-107

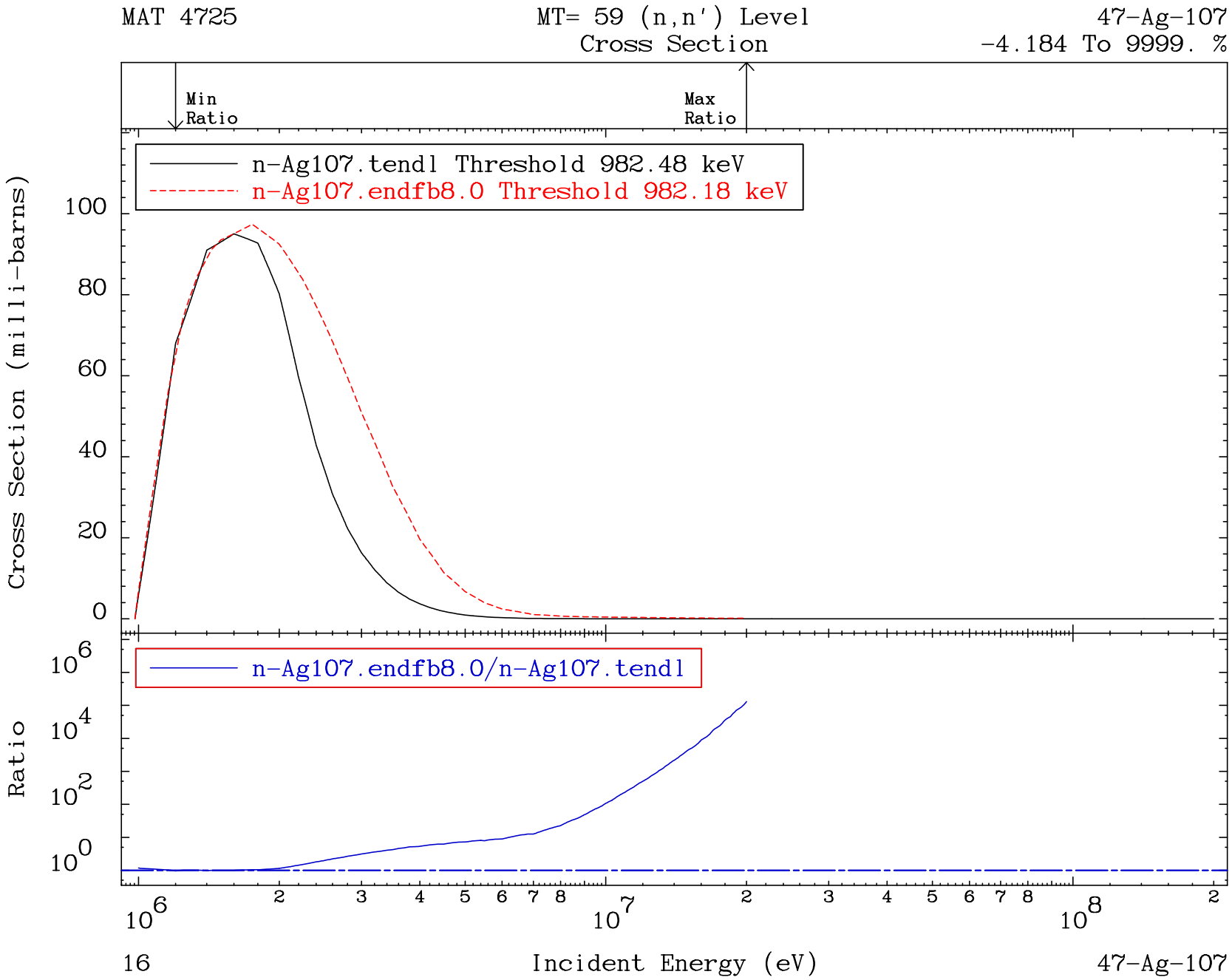

MAT 4725
MT= 54 (n,n') Level
Cross Section
47-Ag-107
-99.87 To -16.13%
Max
Ratio
Min
Ratio
n-Ag107.tendl Threshold 427.14 keV
n-Ag107.endfb8.0 Threshold 426.99 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^0
10^-1
10^-2
10^-3
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
47-Ag-107

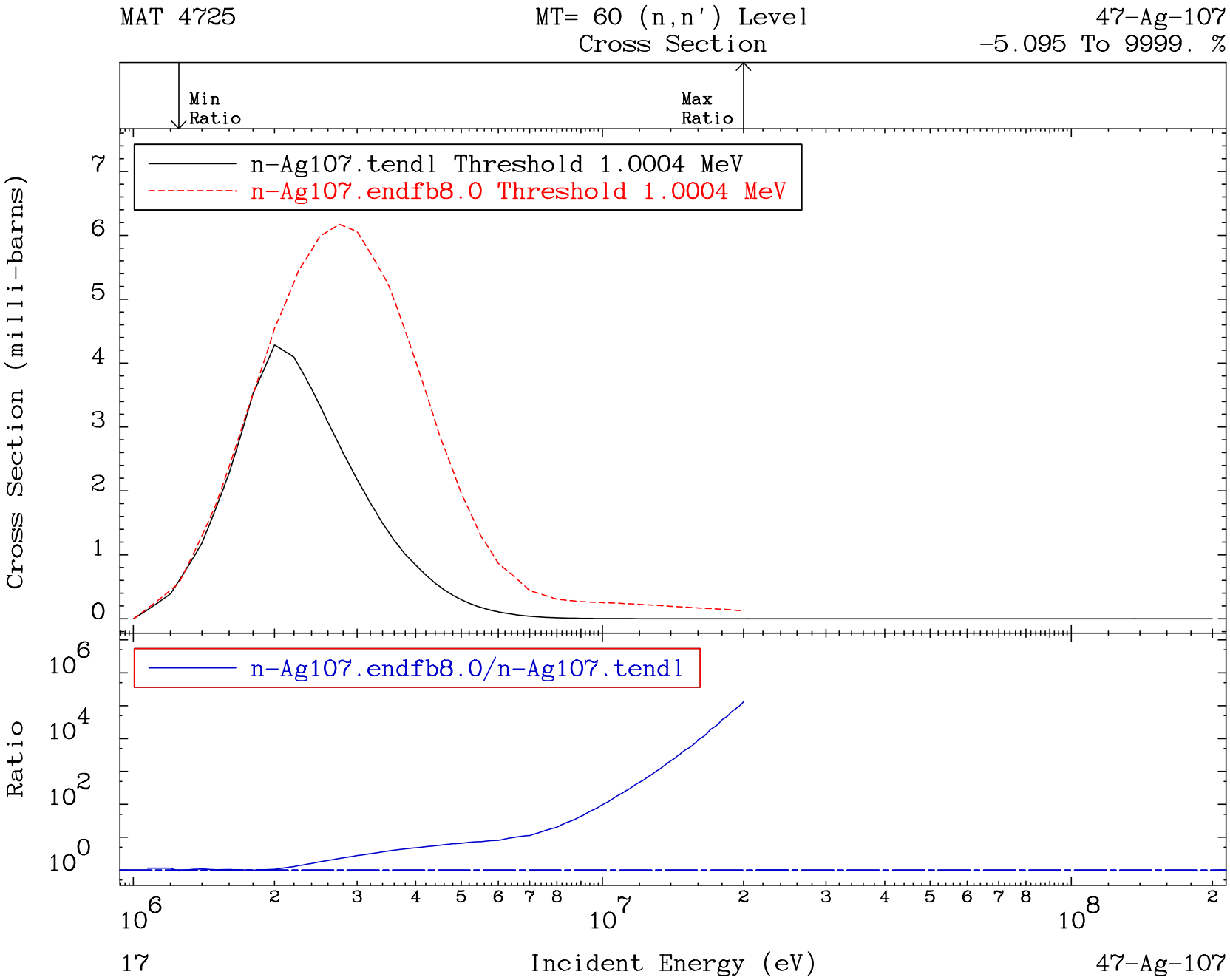

MAT 4725
MT= 55 (n,n') Level
Cross Section
47-Ag-107
9.633 To 9999. %
Min Ratio
Max Ratio
n-Ag107.tendl Threshold 780.61 keV
n-Ag107.endfb8.0 Threshold 780.29 keV
Cross Section (milli-barns)
20
15
10
5
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^6
10^4
10^2
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
47-Ag-107

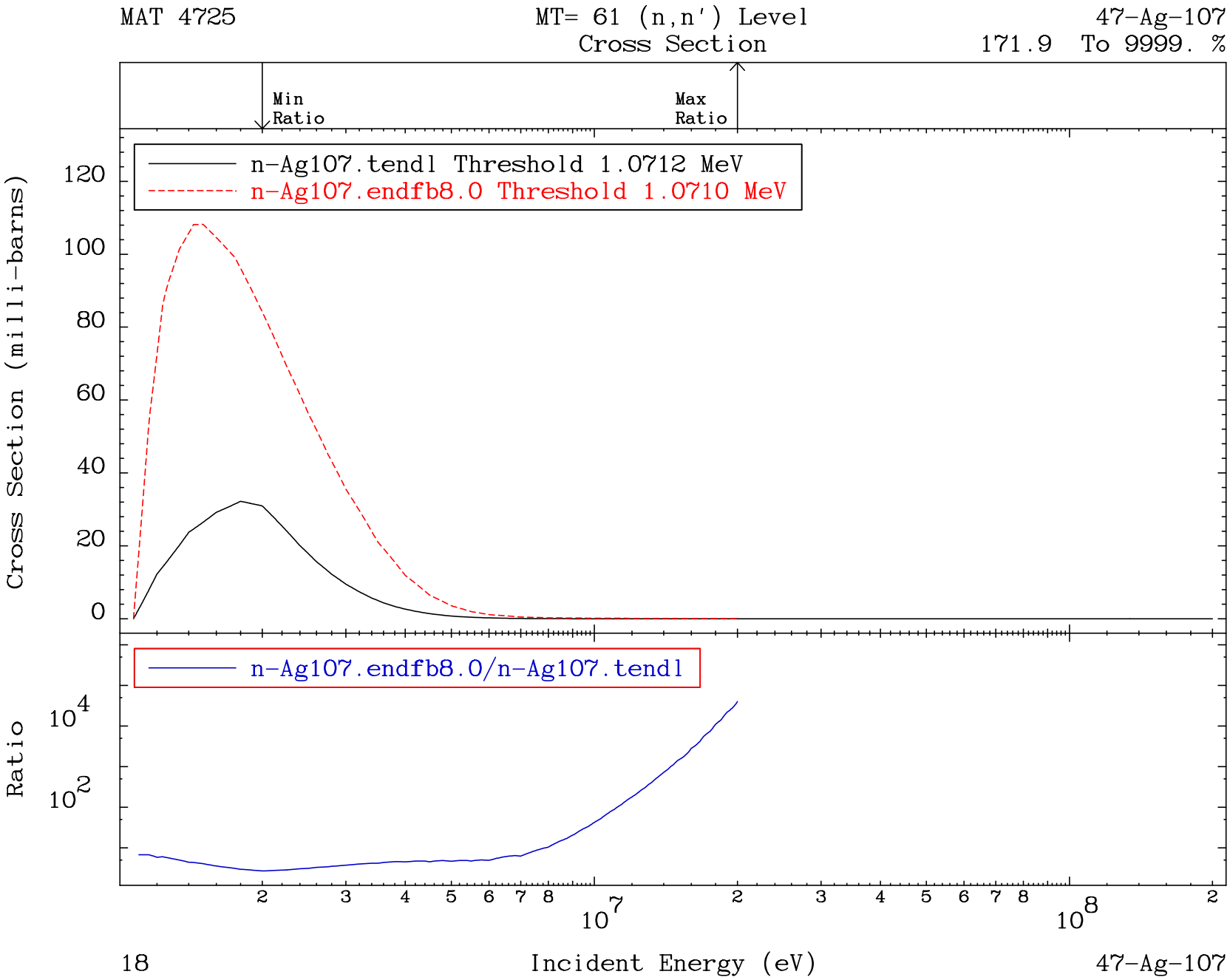

MAT 4725
MT= 56 (n,n') Level
Cross Section
47-Ag-107
-17.80 To 9999. %
Min Ratio
Max Ratio
n-Ag107.tendl Threshold 794.01 keV
n-Ag107.endfb8.0 Threshold 794.43 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^6
10^4
10^2
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
47-Ag-107

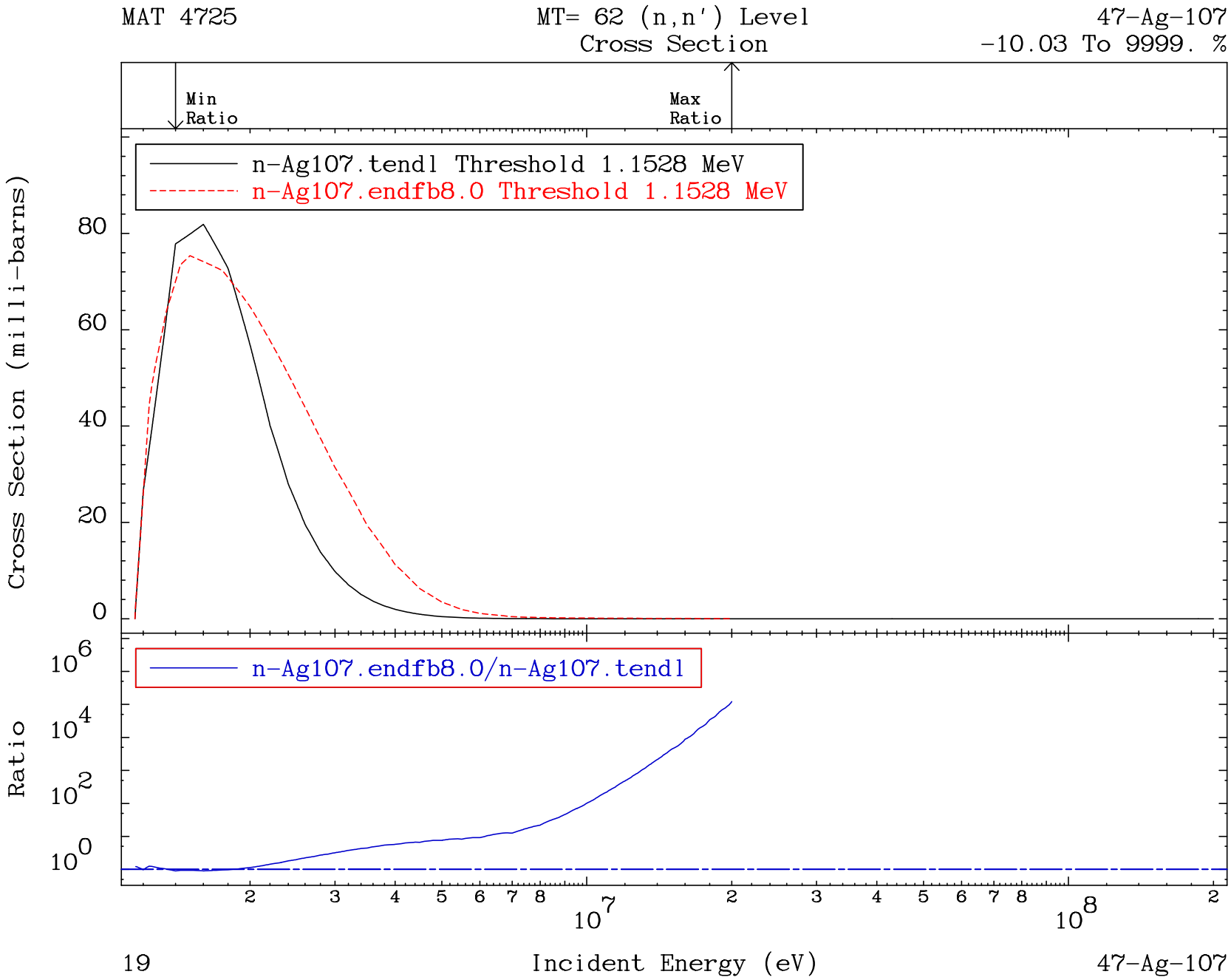

MAT 4725
MT= 57 (n,n') Level
Cross Section
47-Ag-107
-9.166 To 9999. %
Min
Ratio
Max
Ratio
n-Ag107.tendl Threshold 930.76 keV
n-Ag107.endfb8.0 Threshold 930.76 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^6
10^4
10^2
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
47-Ag-107

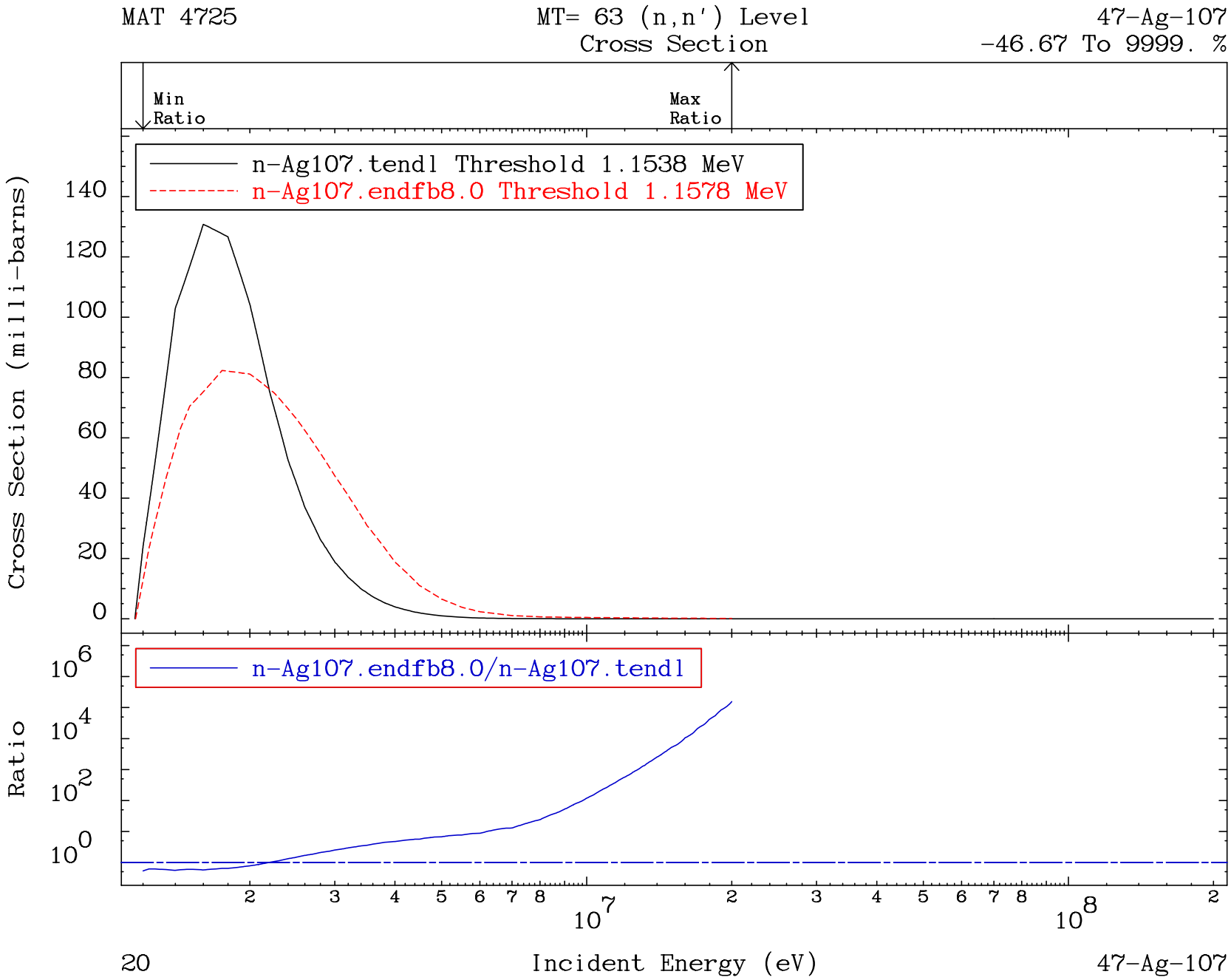

MAT 4725
MT= 58 (n,n') Level
Cross Section
47-Ag-107
-9.806 To 9999. %
Min
Ratio
Max
Ratio
n-Ag107.tendl Threshold 958.66 keV
n-Ag107.endfb8.0 Threshold 958.96 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^6
10^4
10^2
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
47-Ag-107

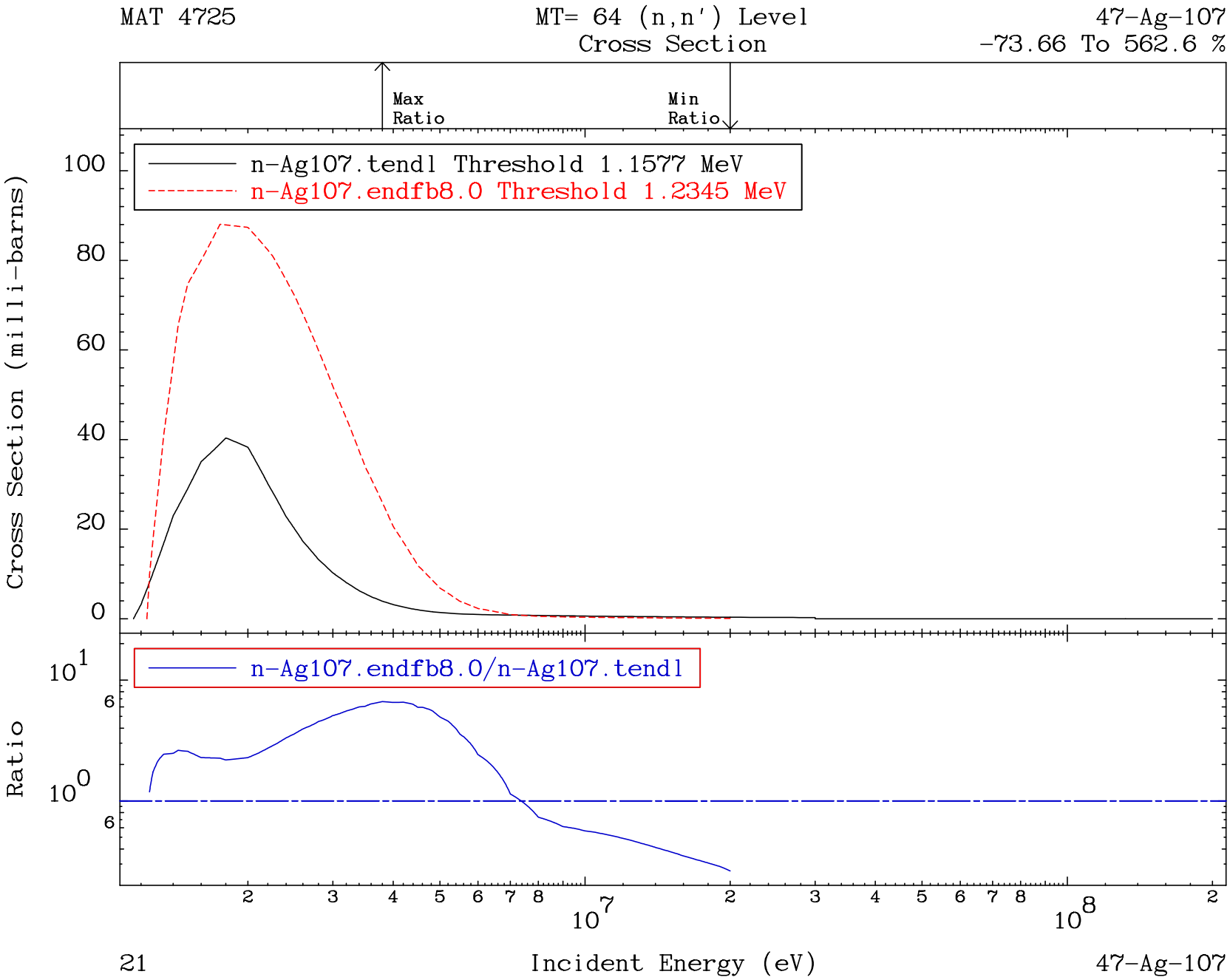

MAT 4725
MT= 59 (n,n') Level
Cross Section
47-Ag-107
-4.184 To 9999. %
Min Ratio
Max Ratio
n-Ag107.tendl Threshold 982.48 keV
n-Ag107.endfb8.0 Threshold 982.18 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^6
10^4
10^2
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
47-Ag-107

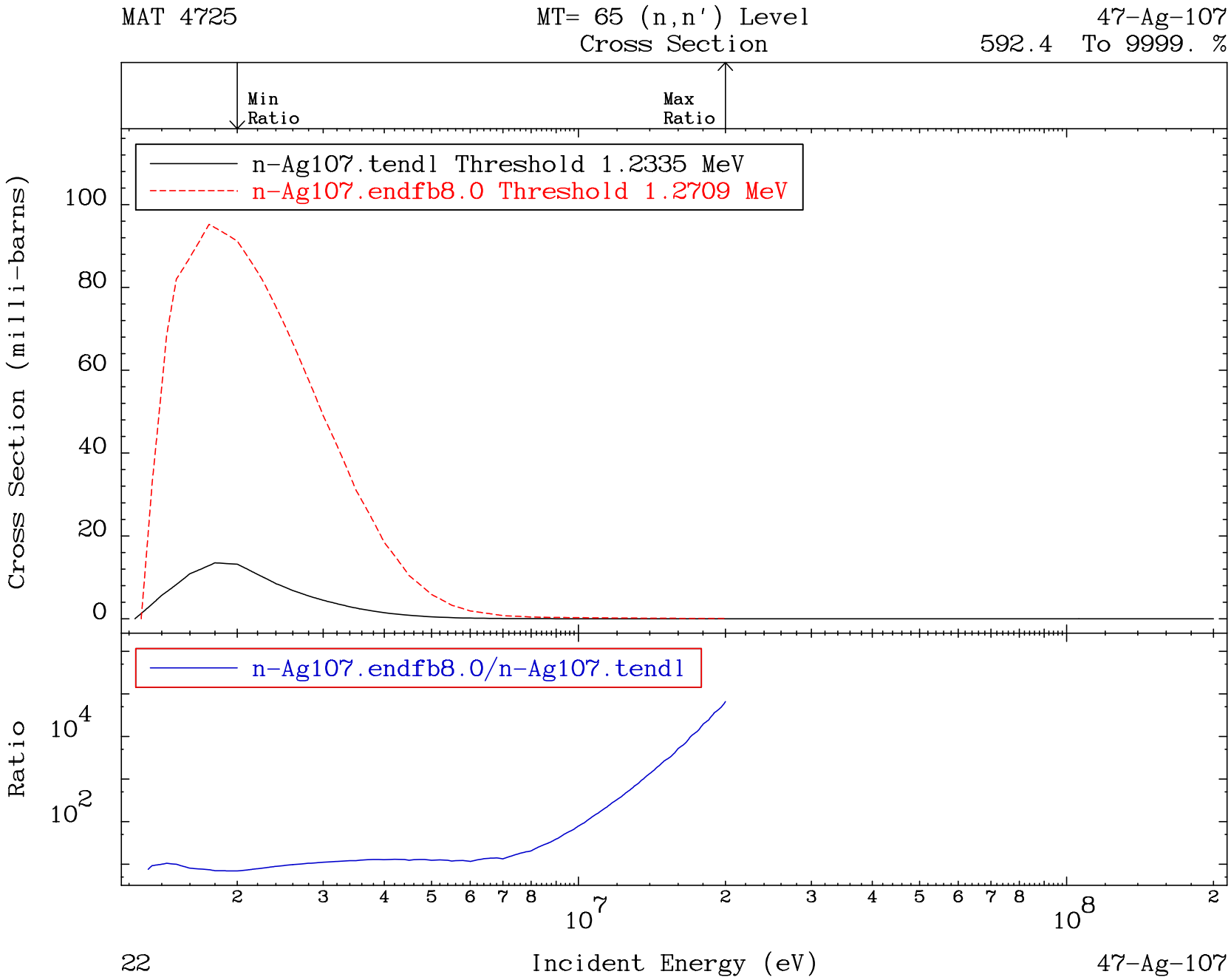

MAT 4725
MT= 60 (n,n') Level
Cross Section
47-Ag-107
-5.095 To 9999. %
Min Ratio
Max Ratio
n-Ag107.tendl Threshold 1.0004 MeV
n-Ag107.endfb8.0 Threshold 1.0004 MeV
Cross Section (milli-barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
Incident Energy (eV)
17
47-Ag-107

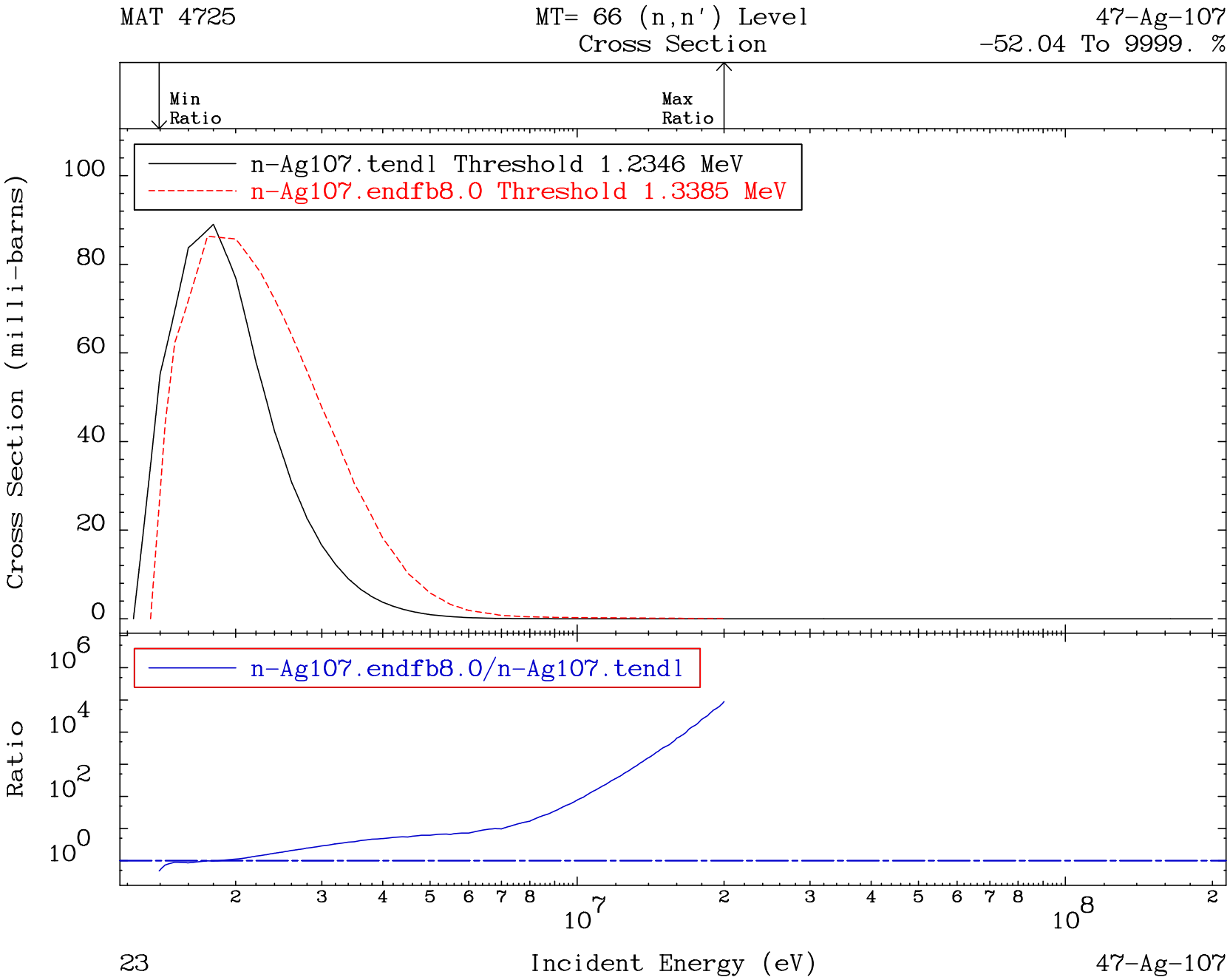

MAT 4725
MT= 61 (n,n') Level
Cross Section
47-Ag-107
171.9 To 9999. %
Min Ratio
Max Ratio
n-Ag107.tendl Threshold 1.0712 MeV
n-Ag107.endfb8.0 Threshold 1.0710 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^4
10^2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
47-Ag-107

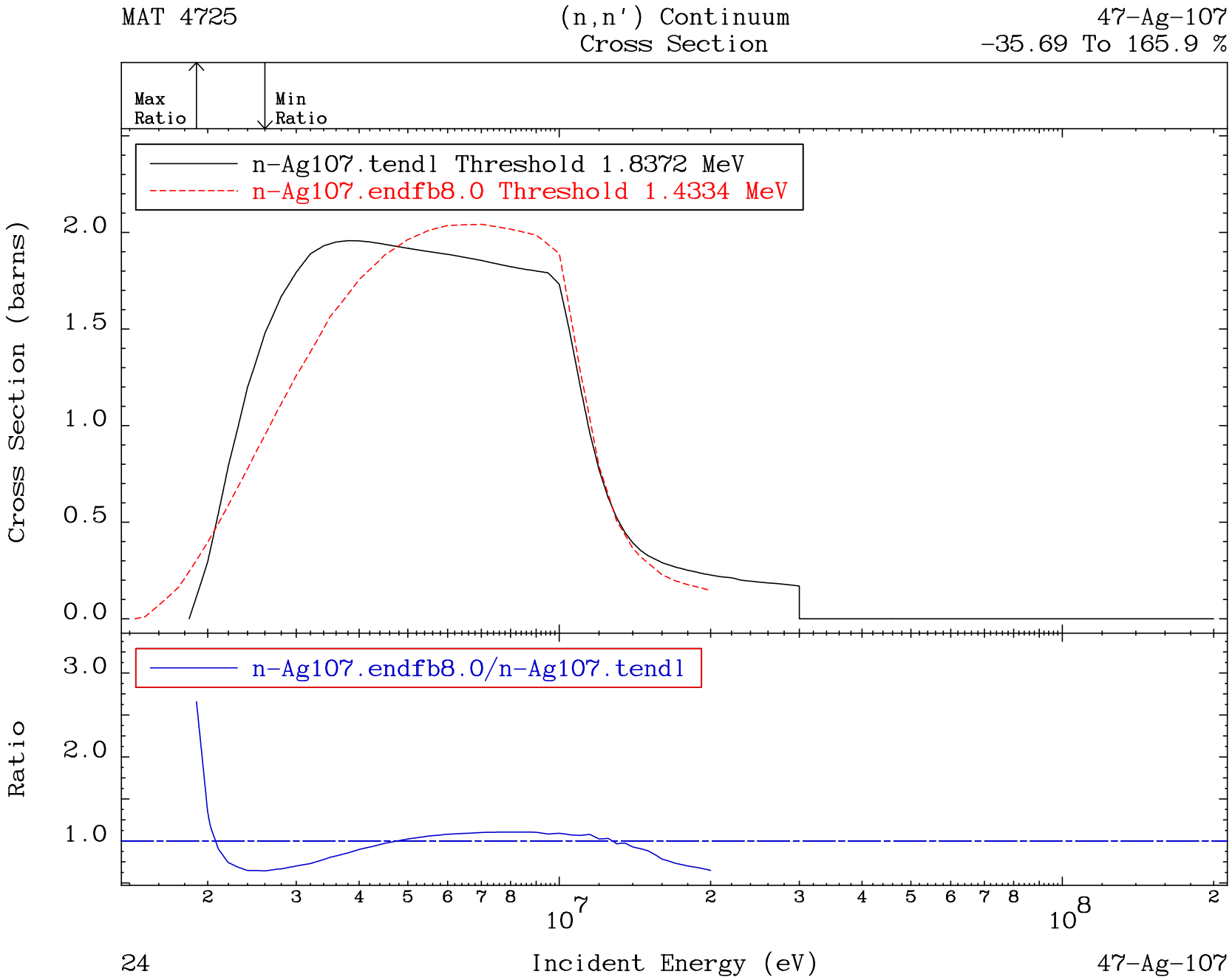

MAT 4725
MT= 62 (n,n') Level
Cross Section
47-Ag-107
-10.03 To 9999. %
Min Ratio
Max Ratio
n-Ag107.tendl Threshold 1.1528 MeV
n-Ag107.endfb8.0 Threshold 1.1528 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^6
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
47-Ag-107

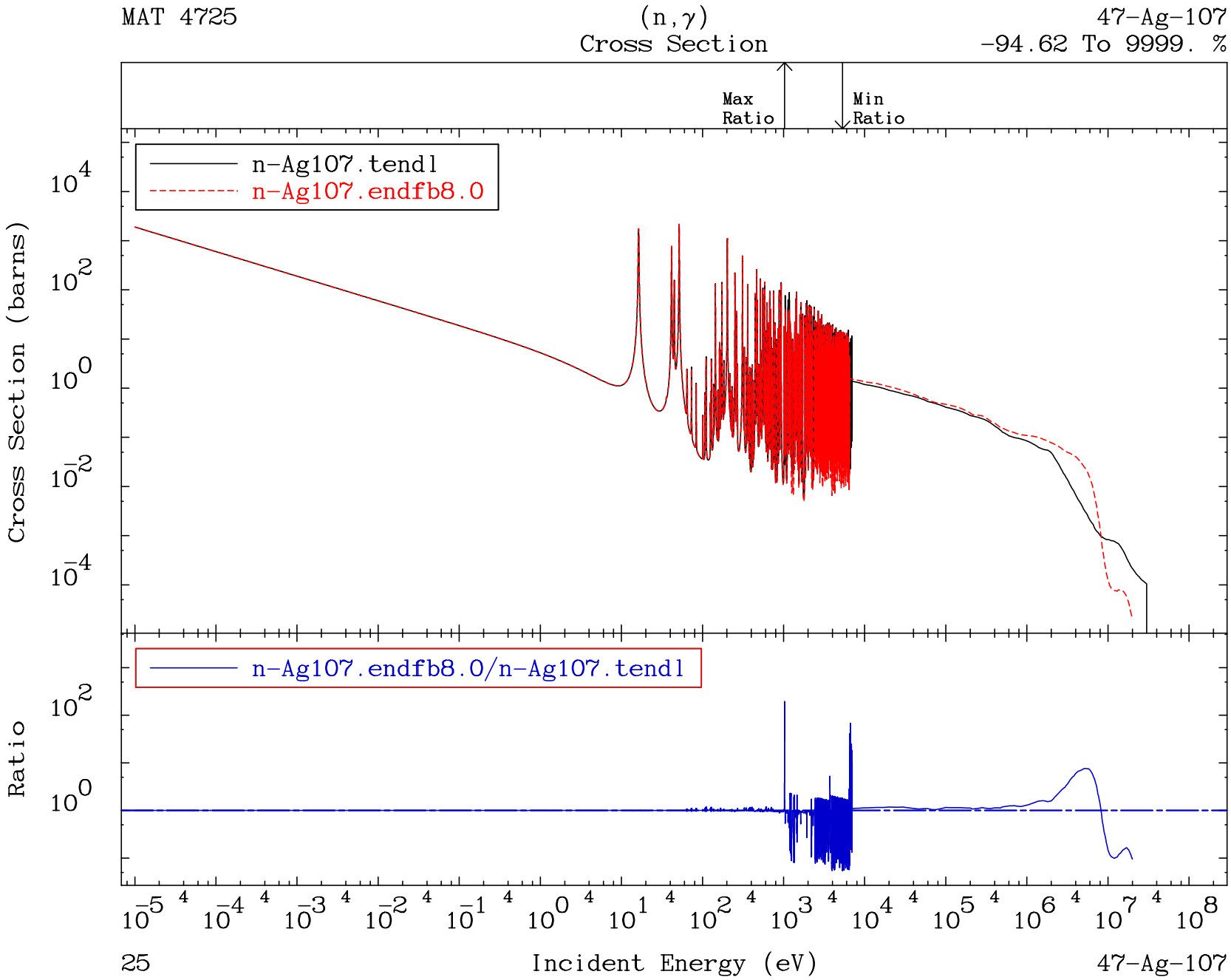

MAT 4725
MT= 63 (n,n') Level
Cross Section
47-Ag-107
-46.67 To 9999. %
Min Ratio
Max Ratio
n-Ag107.tendl Threshold 1.1538 MeV
n-Ag107.endfb8.0 Threshold 1.1578 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^6
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
47-Ag-107

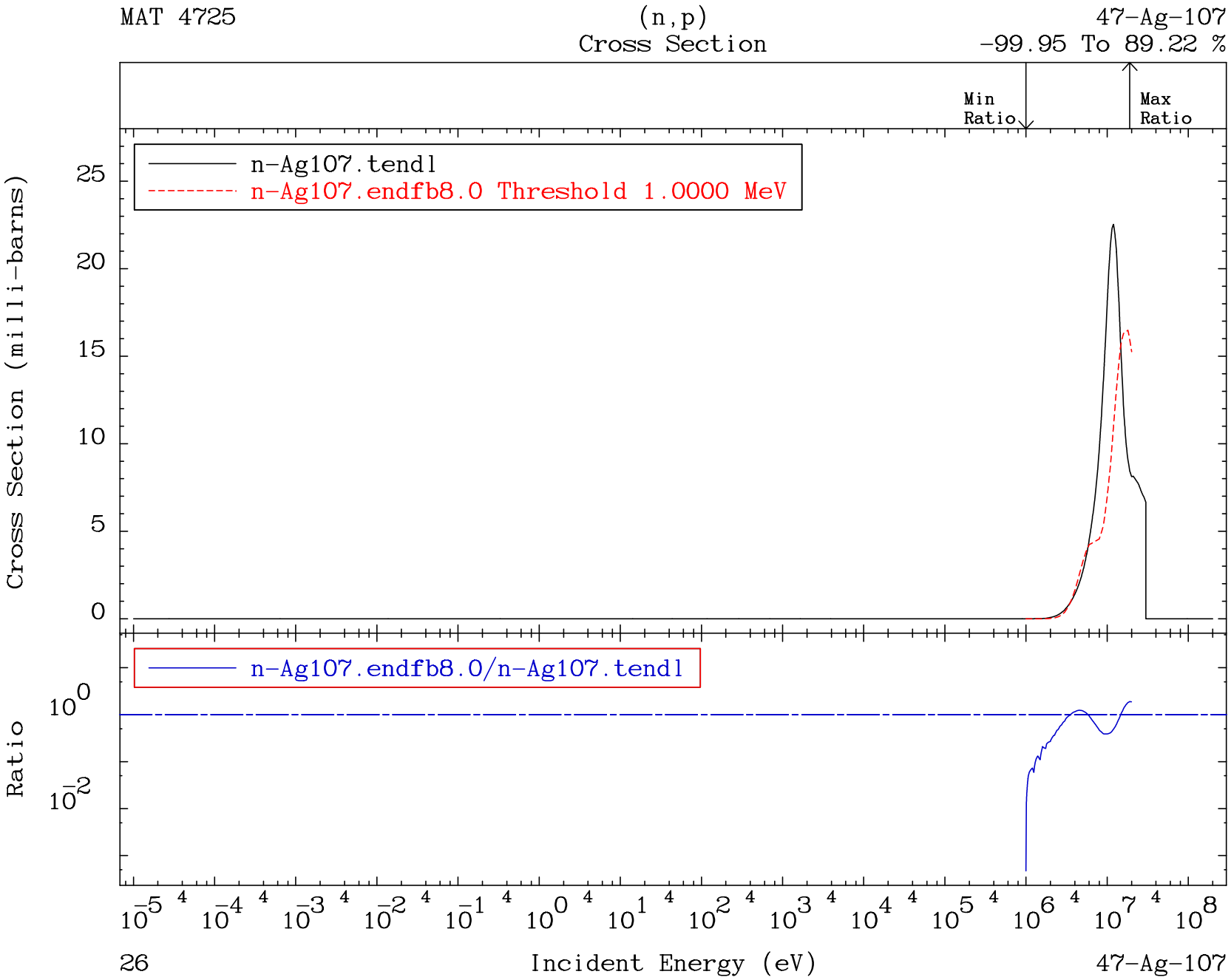

MAT 4725
MT= 64 (n,n') Level
Cross Section
47-Ag-107
-73.66 To 562.6 %
Max Ratio
Min Ratio
n-Ag107.tendl Threshold 1.1577 MeV
n-Ag107.endfb8.0 Threshold 1.2345 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^1
10^0
6
6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
47-Ag-107

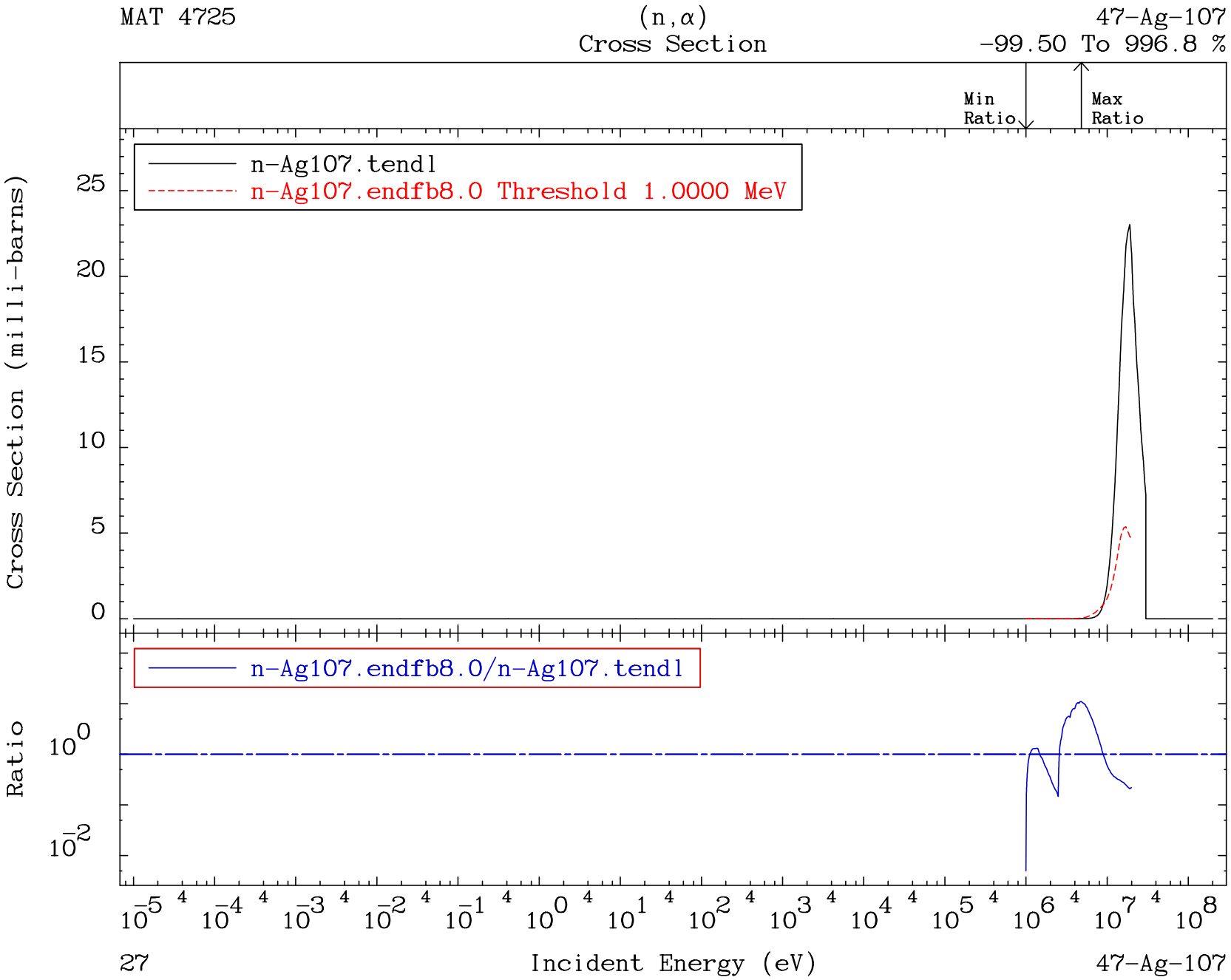

MAT 4725
MT= 65 (n,n') Level
Cross Section
47-Ag-107
592.4 To 9999. %
Min Ratio
Max Ratio
n-Ag107.tendl Threshold 1.2335 MeV
n-Ag107.endfb8.0 Threshold 1.2709 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^4
10^2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
47-Ag-107

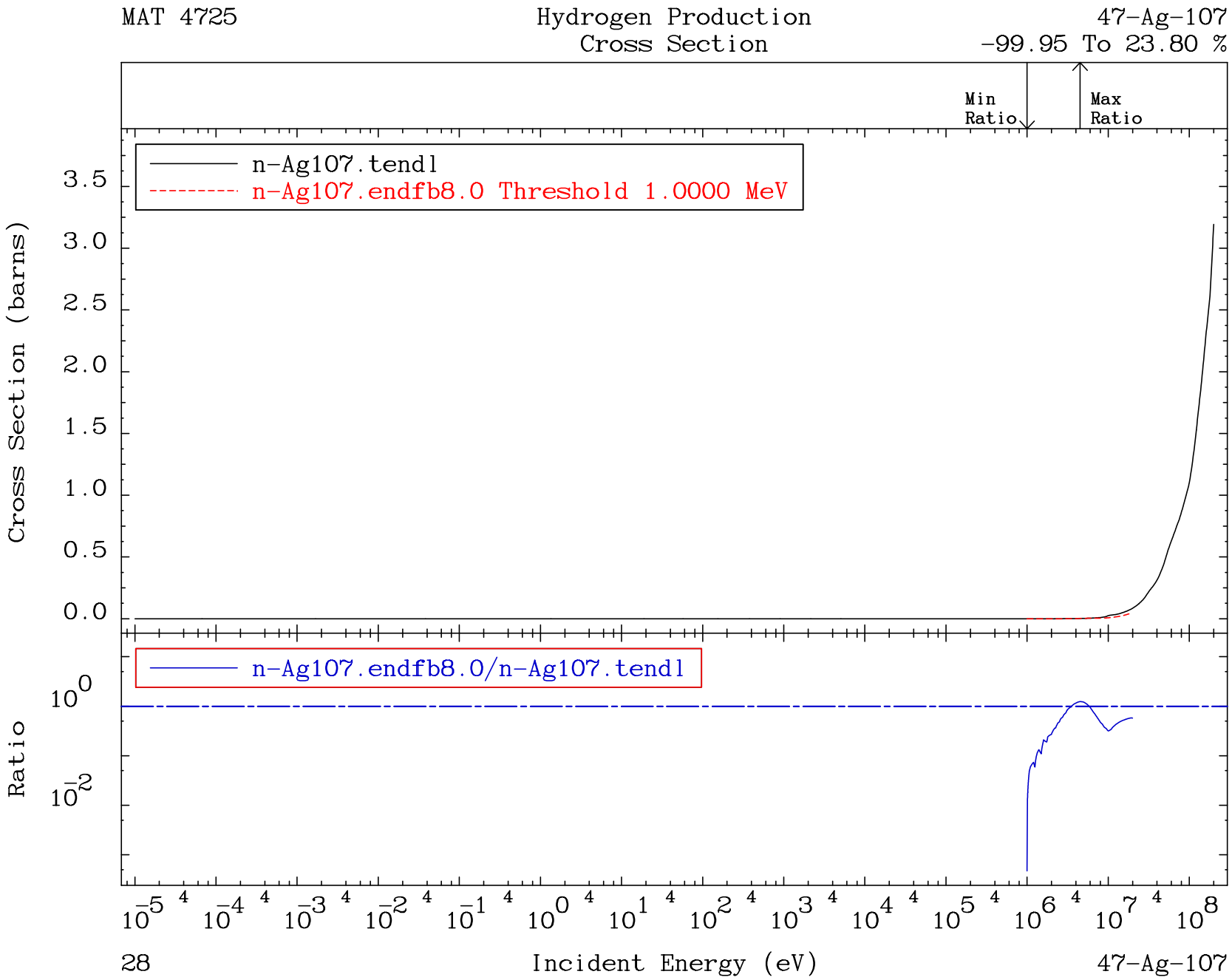

MAT 4725
MT= 66 (n,n') Level
Cross Section
47-Ag-107
-52.04 To 9999. %
Min Ratio
Max Ratio
n-Ag107.tendl Threshold 1.2346 MeV
n-Ag107.endfb8.0 Threshold 1.3385 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^6
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
47-Ag-107

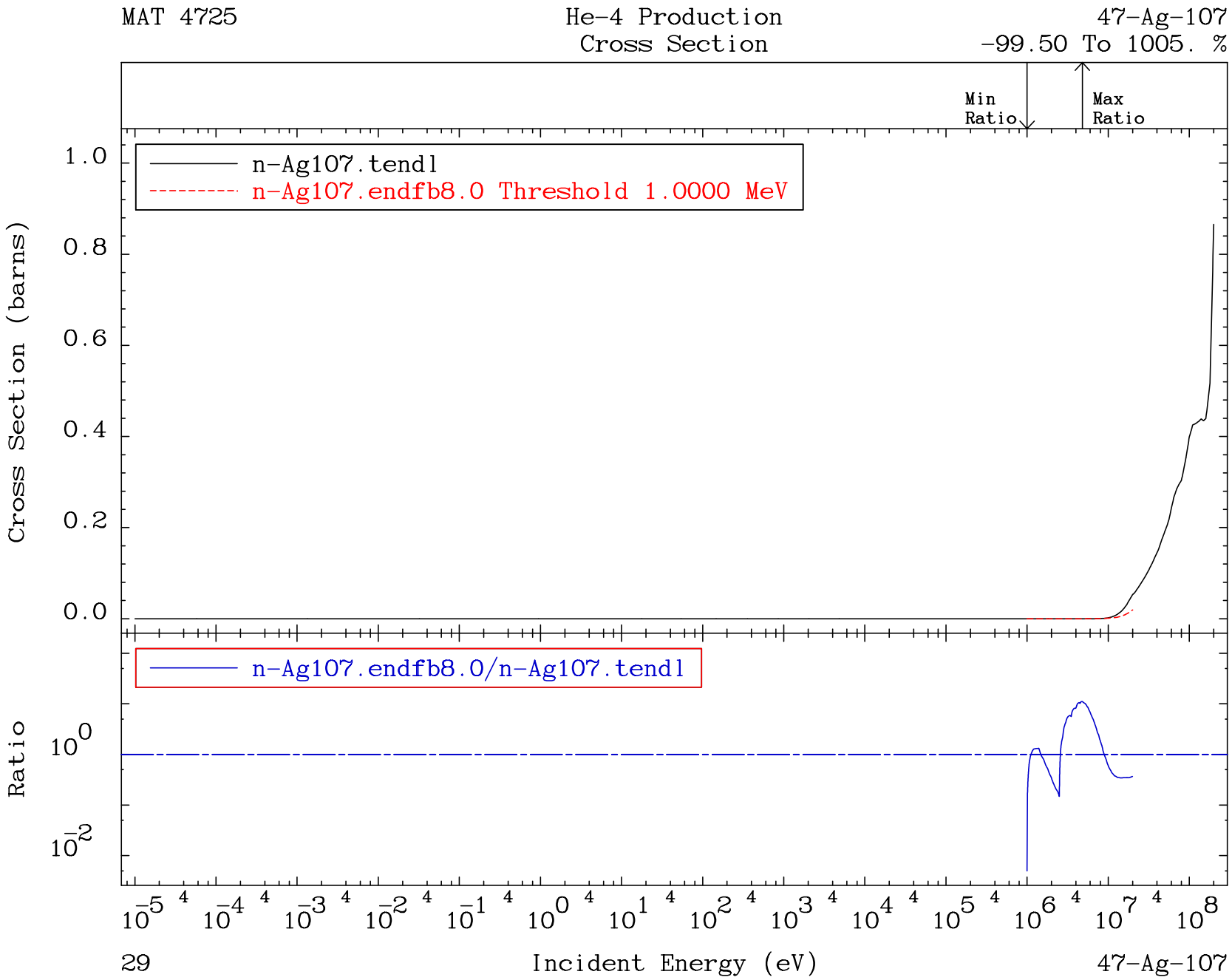

MAT 4725
(n,n') Continuum
Cross Section
47-Ag-107
-35.69 To 165.9 %
Max Ratio
Min Ratio
n-Ag107.tendl Threshold 1.8372 MeV
n-Ag107.endfb8.0 Threshold 1.4334 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
3.0
2.0
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
47-Ag-107

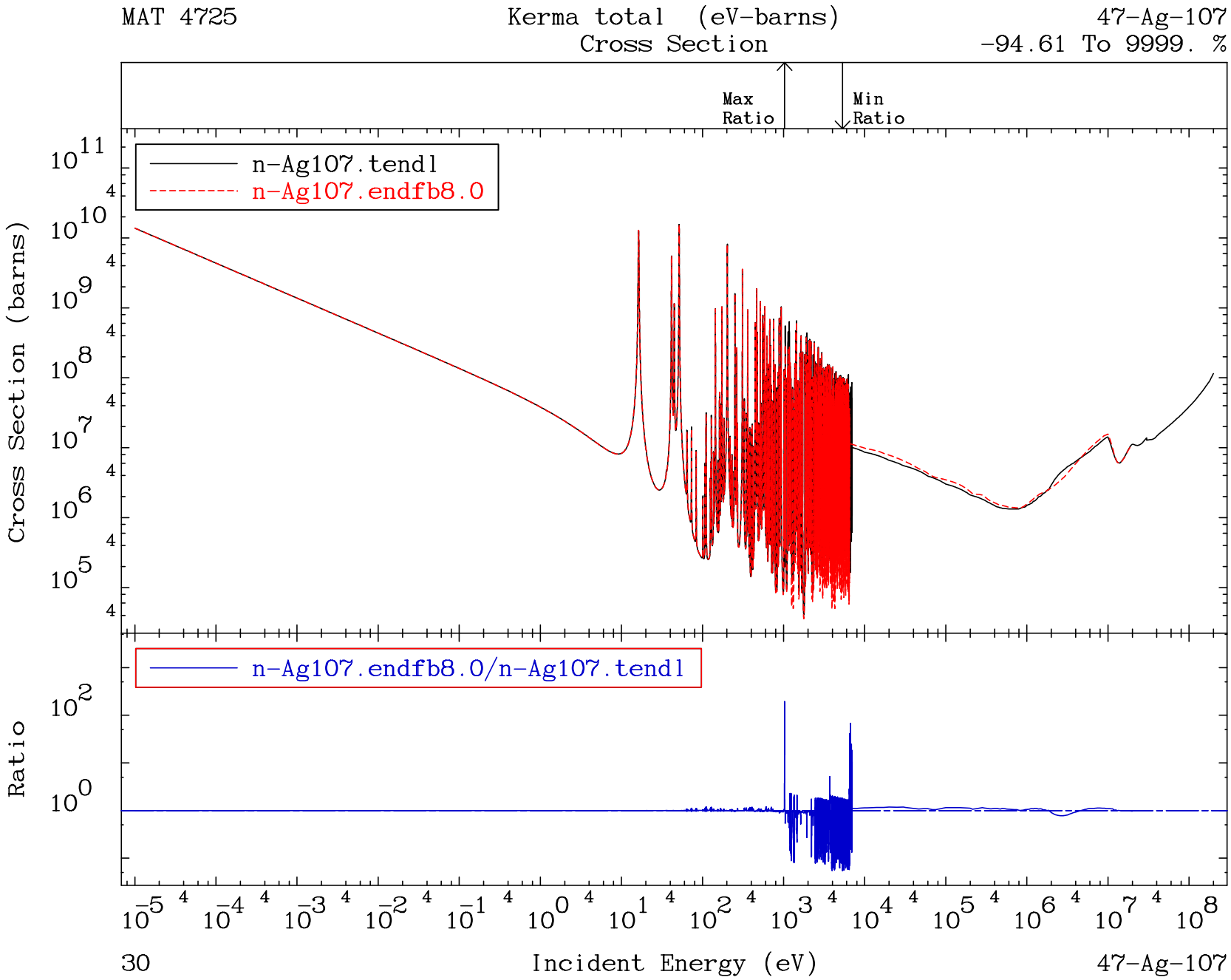

MAT 4725
(n,γ)
Cross Section
47-Ag-107
-94.62 To 9999. %
Max Ratio
Min Ratio
n-Ag107.tendl
n-Ag107.endfb8.0
Cross Section (barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
Incident Energy (eV)
25
47-Ag-107

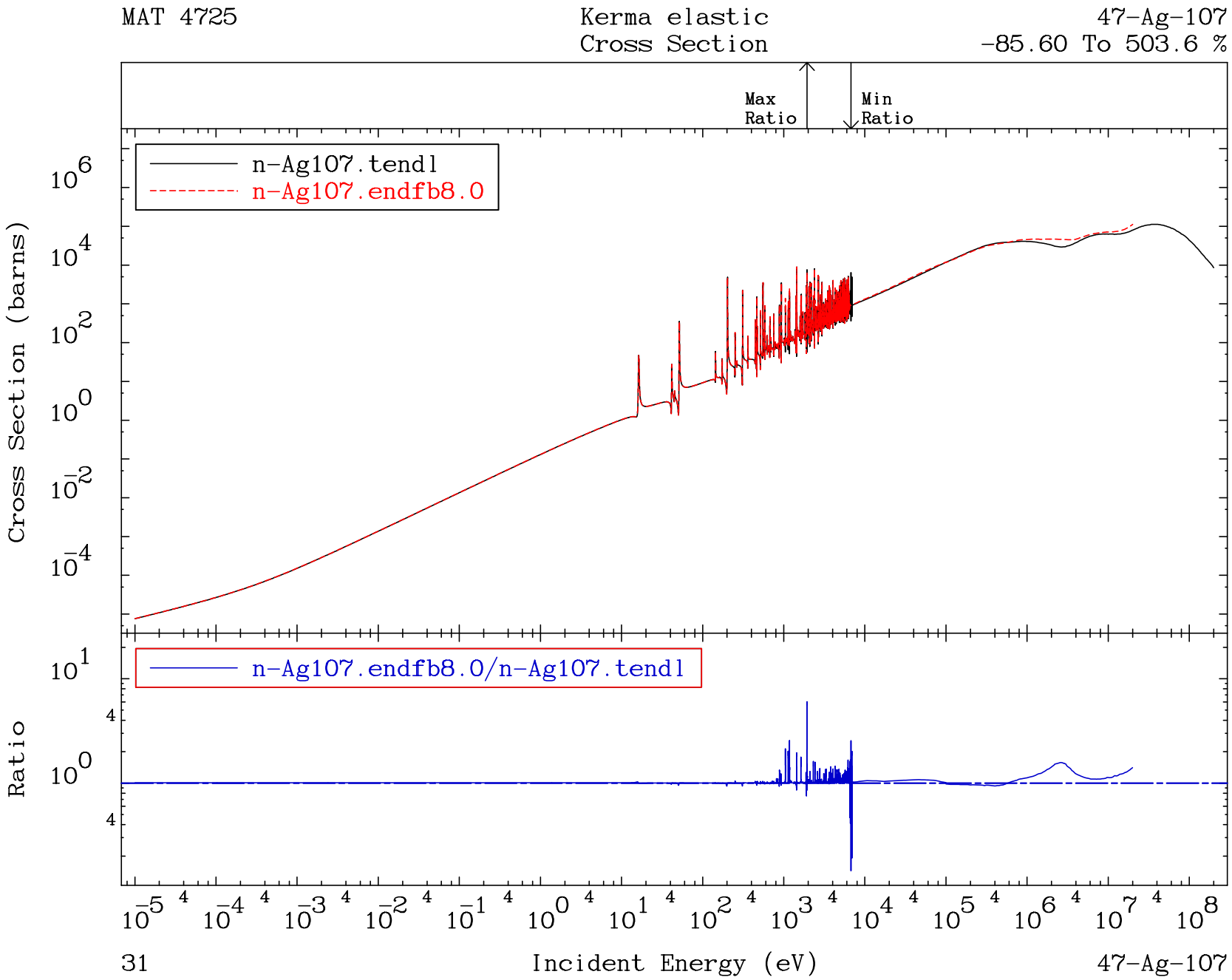

MAT 4725
(n,p)
Cross Section
47-Ag-107
-99.95 To 89.22 %
Min Ratio
Max Ratio
n-Ag107.tendl
n-Ag107.endfb8.0 Threshold 1.0000 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
26
Incident Energy (eV)
47-Ag-107

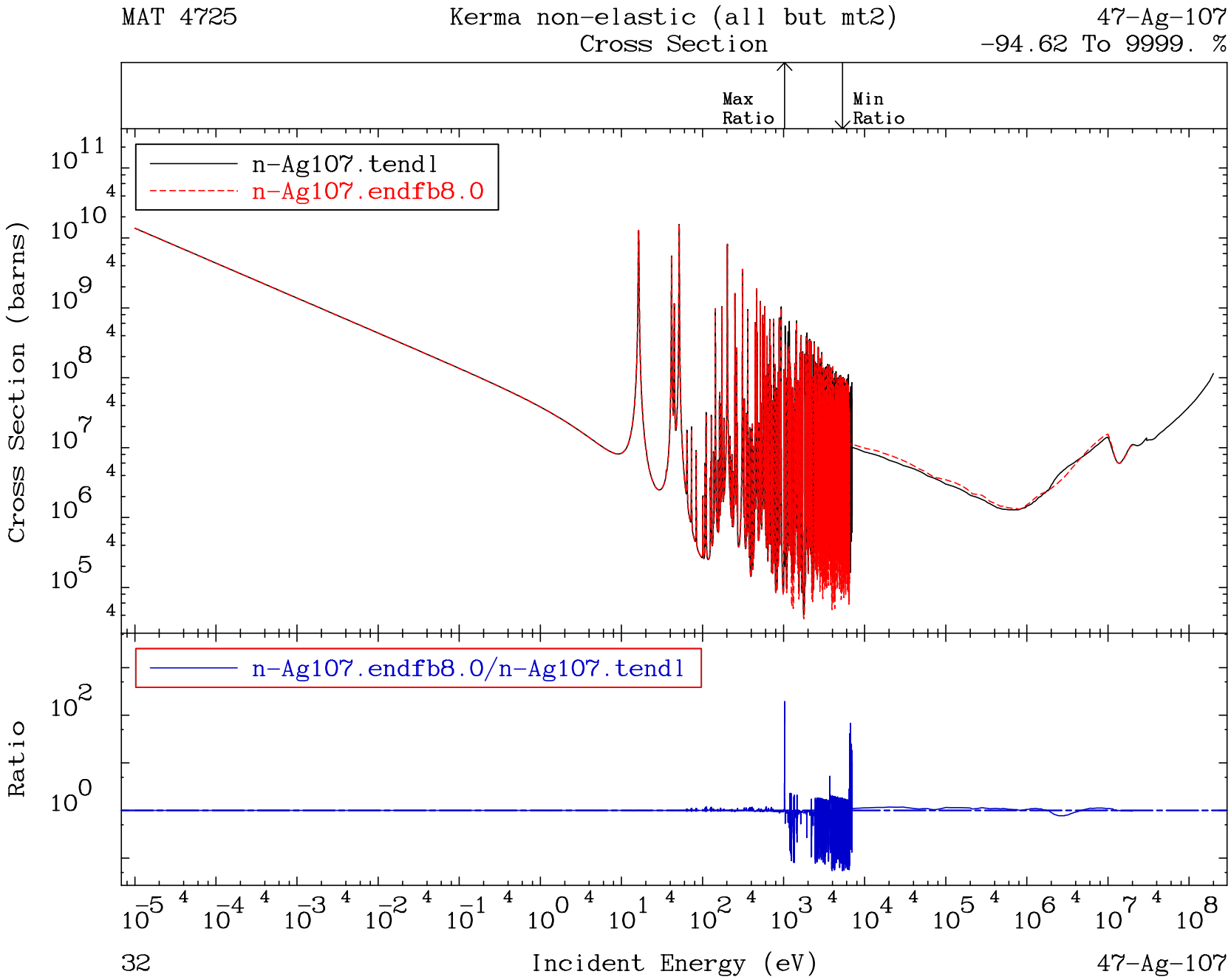

MAT 4725
(n,α)
Cross Section
47-Ag-107
-99.50 To 996.8 %
Min Ratio
Max Ratio
n-Ag107.tendl
n-Ag107.endfb8.0 Threshold 1.0000 MeV
Cross Section (milli-barns)
0
5
10
15
20
25
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
27
Incident Energy (eV)
47-Ag-107

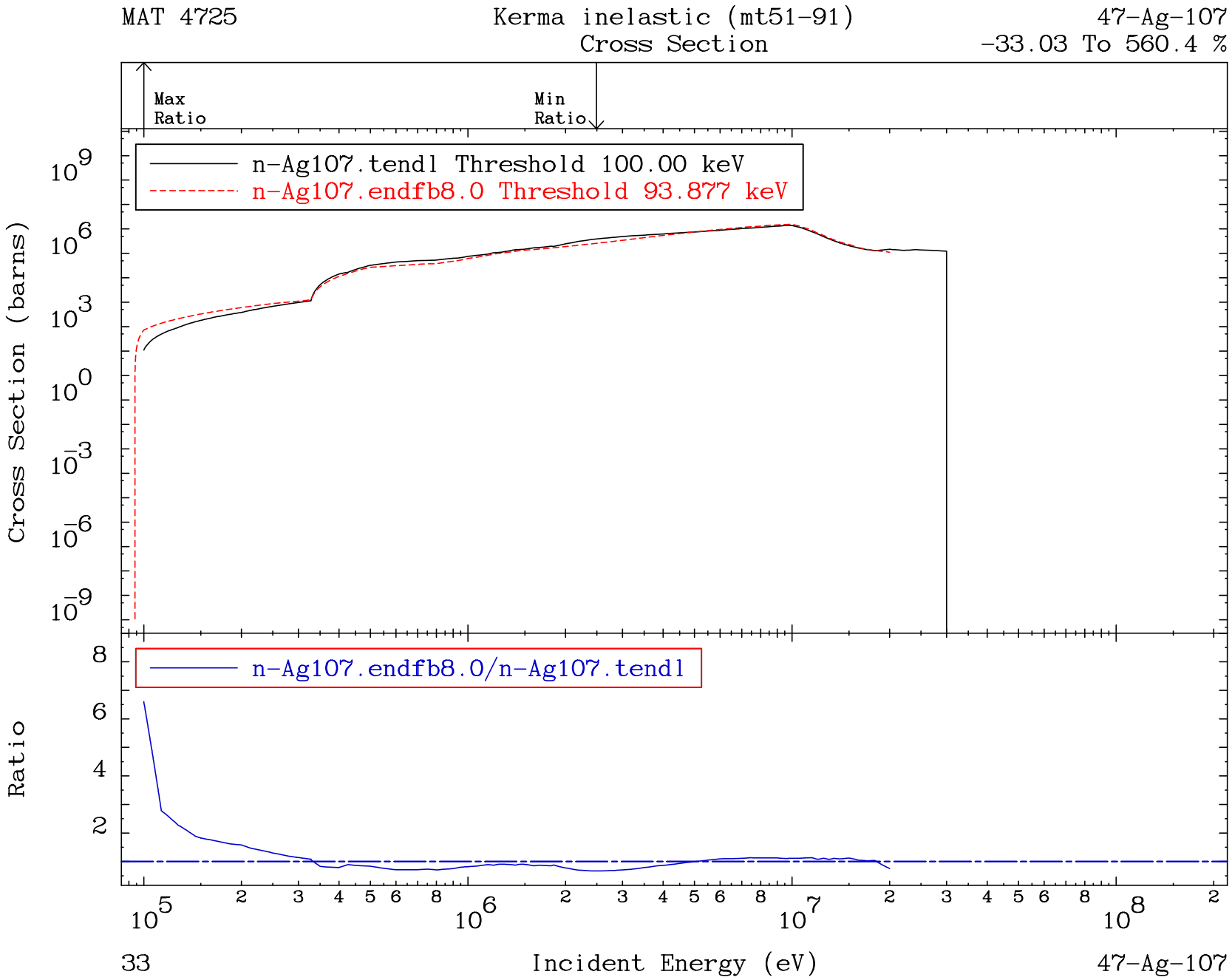

MAT 4725
Hydrogen Production
Cross Section
47-Ag-107
-99.95 To 23.80 %
Min Ratio
Max Ratio
n-Ag107.tendl
n-Ag107.endfb8.0 Threshold 1.0000 MeV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
28
Incident Energy (eV)
47-Ag-107

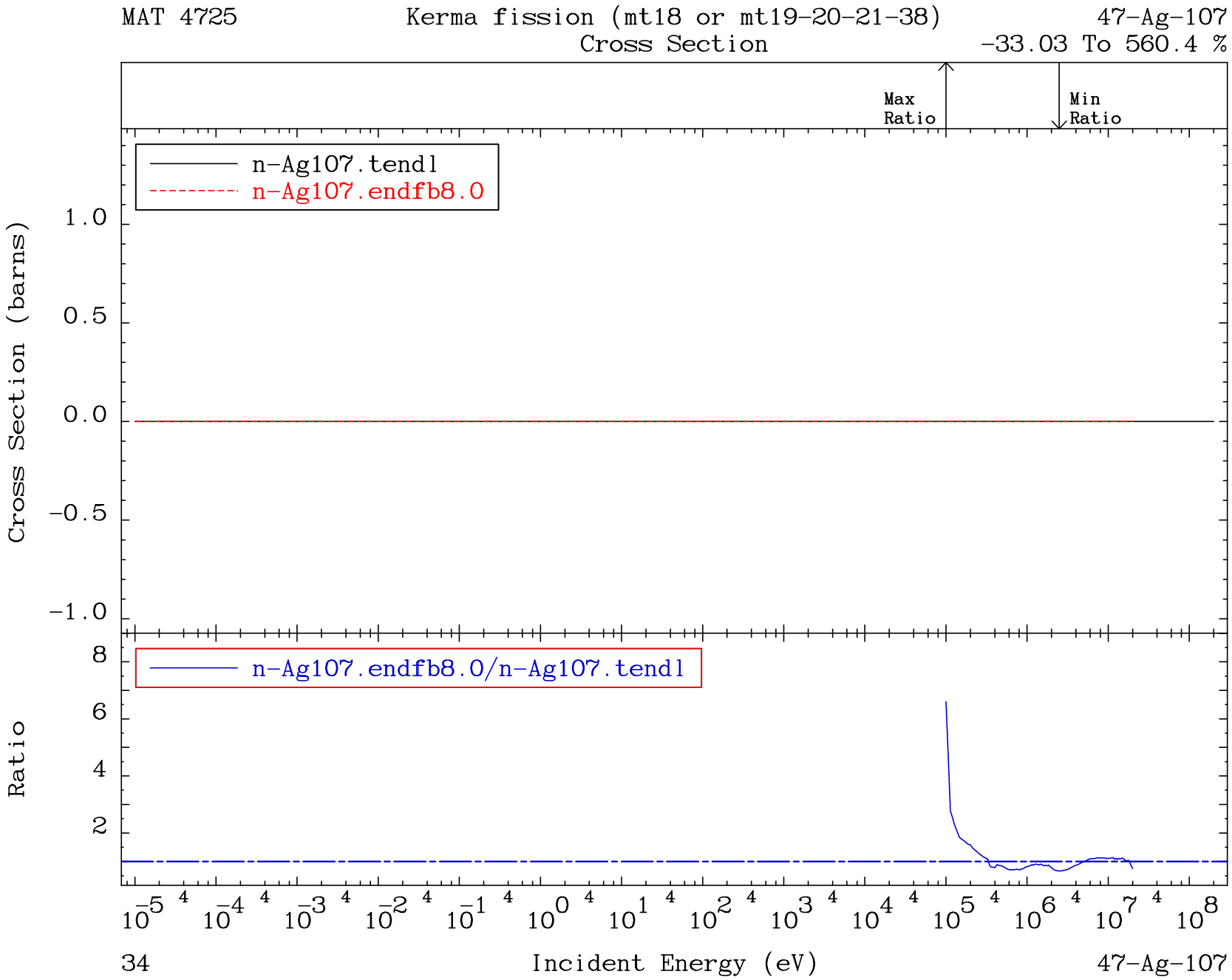

MAT 4725
He-4 Production
Cross Section
47-Ag-107
-99.50 To 1005. %
Min Ratio
Max Ratio
n-Ag107.tendl
n-Ag107.endfb8.0 Threshold 1.0000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
29
Incident Energy (eV)
47-Ag-107

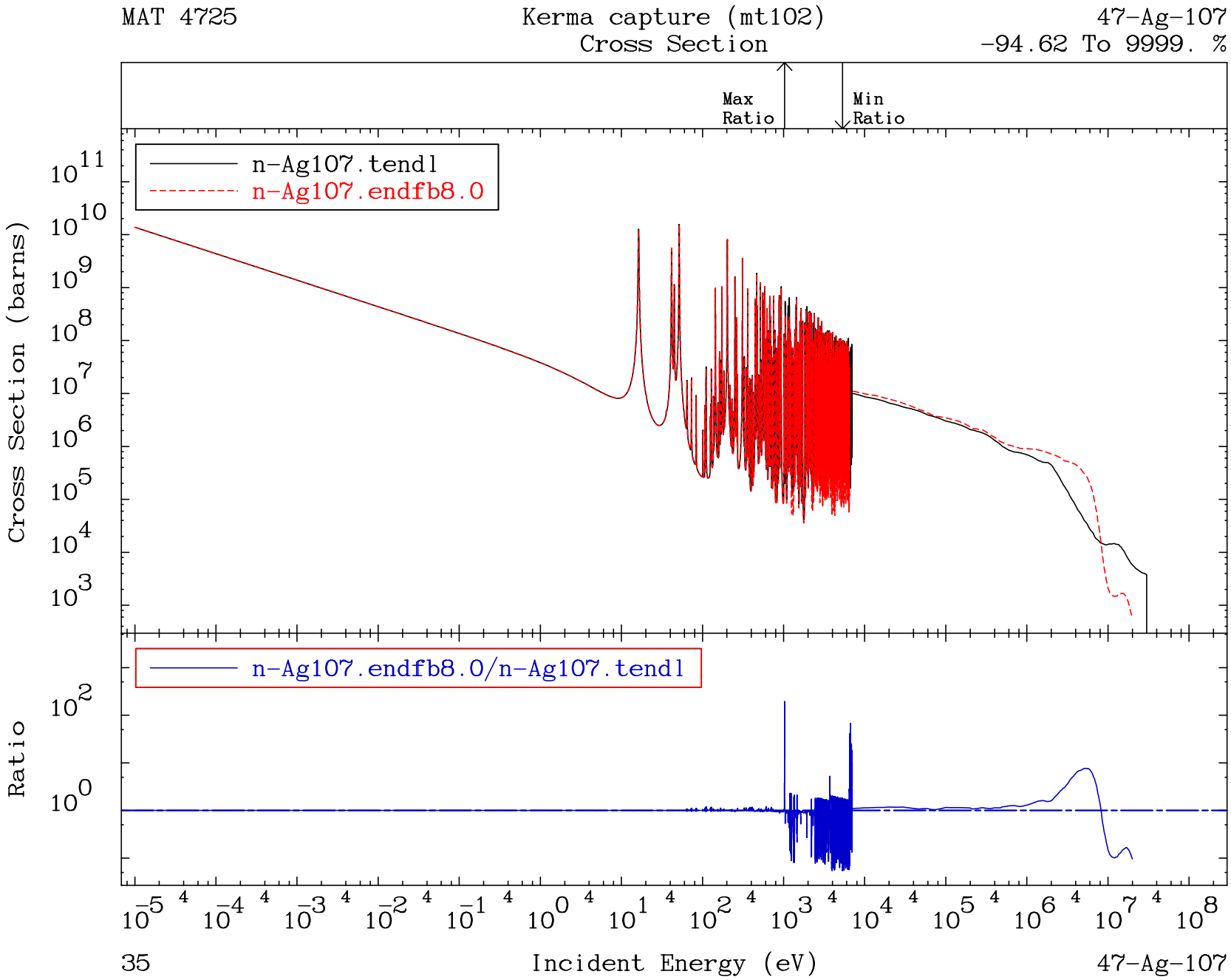

MAT 4725
Kerma total (eV-barns)
Cross Section
47-Ag-107
-94.61 To 9999. %
Max Ratio
Min Ratio
n-Ag107.tendl
n-Ag107.endfb8.0
Cross Section (barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
Incident Energy (eV)
30
47-Ag-107

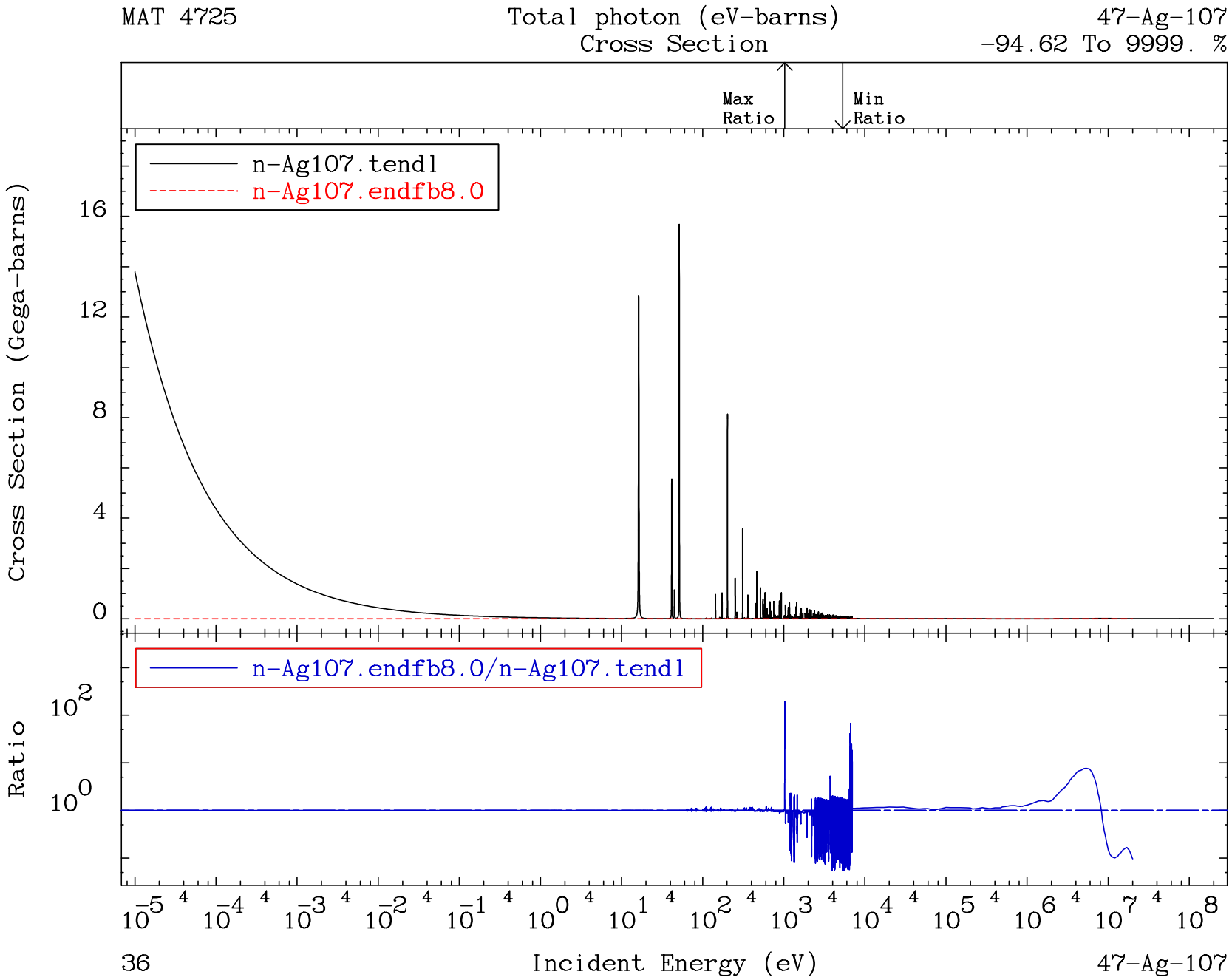

MAT 4725
Kerma elastic
Cross Section
47-Ag-107
-85.60 To 503.6 %
Max
Ratio
Min
Ratio
n-Ag107.tendl
n-Ag107.endfb8.0
Cross Section (barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
Incident Energy (eV)
31
47-Ag-107

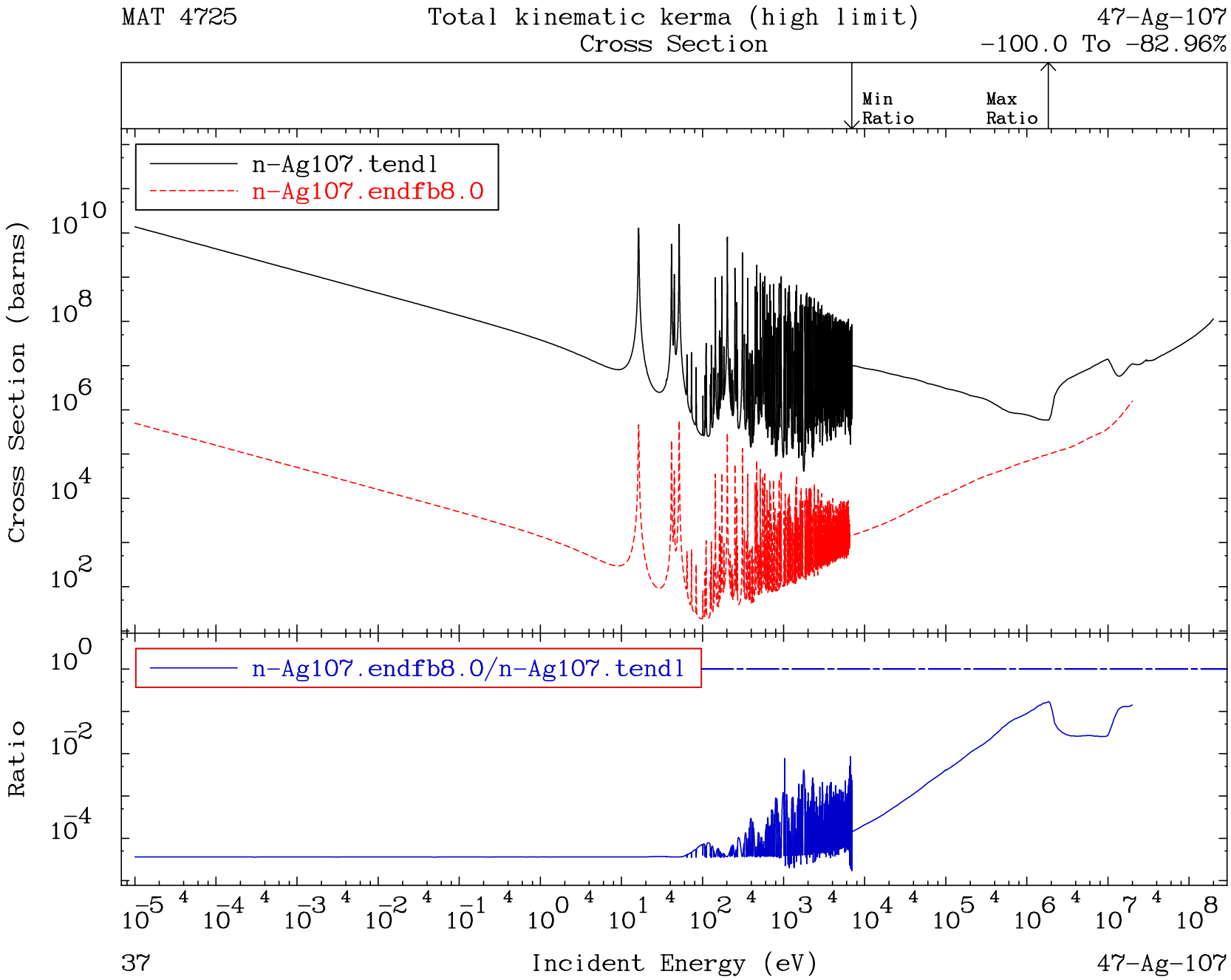

MAT 4725
Kerma non-elastic (all but mt2)
Cross Section
47-Ag-107
-94.62 To 9999. %
Max Ratio
Min Ratio
n-Ag107.tendl
n-Ag107.endfb8.0
Cross Section (barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
32
Incident Energy (eV)
47-Ag-107

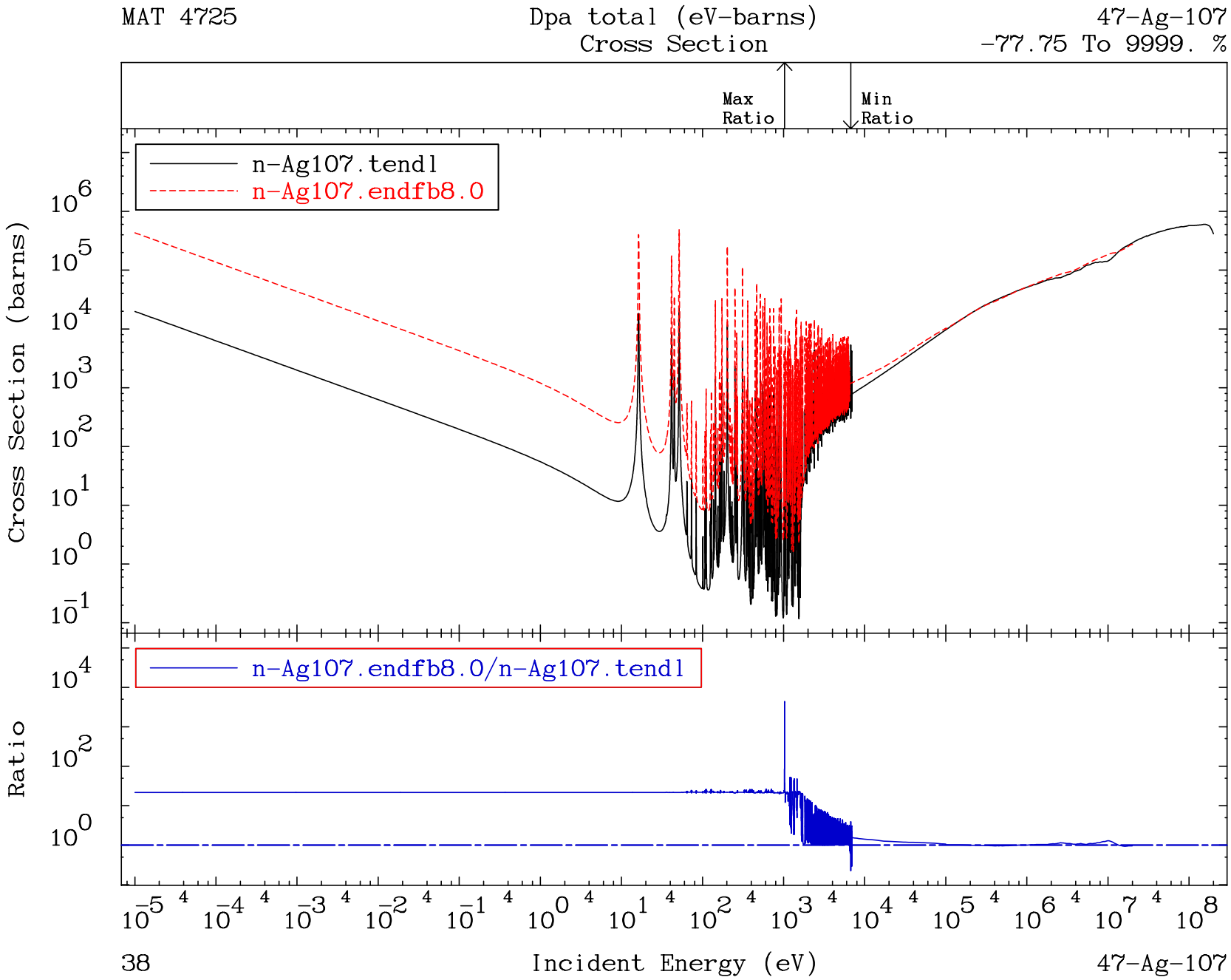

MAT 4725
Kerma inelastic (mt51-91)
Cross Section
47-Ag-107
-33.03 To 560.4 %
Max Ratio
Min Ratio
n-Ag107.tendl Threshold 100.00 keV
n-Ag107.endfb8.0 Threshold 93.877 keV
Cross Section (barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
Incident Energy (eV)
33
47-Ag-107

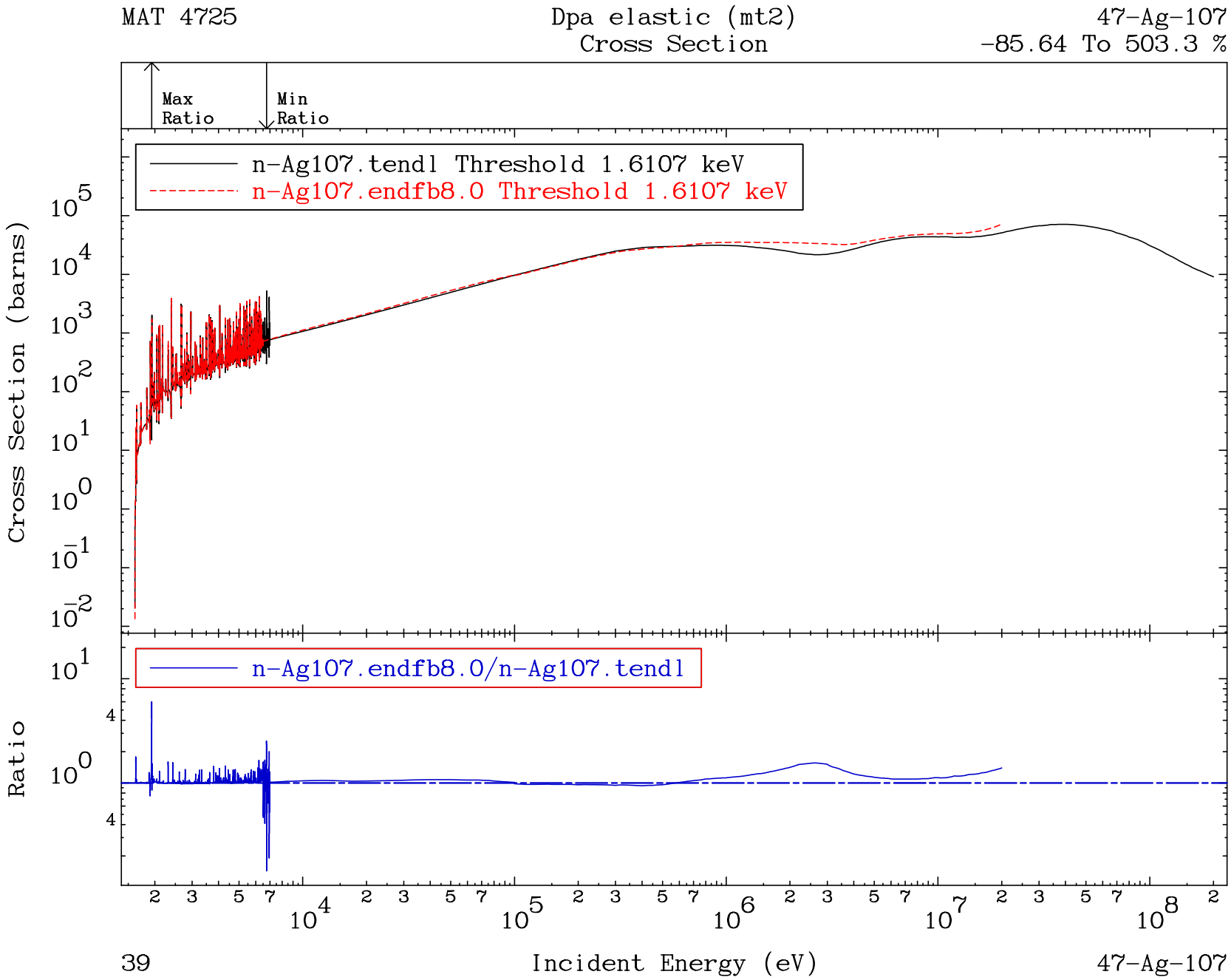

MAT 4725
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
47-Ag-107
-33.03 To 560.4 %
Max Ratio
Min Ratio
n-Ag107.tendl
n-Ag107.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
8
6
4
2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
34
Incident Energy (eV)
47-Ag-107

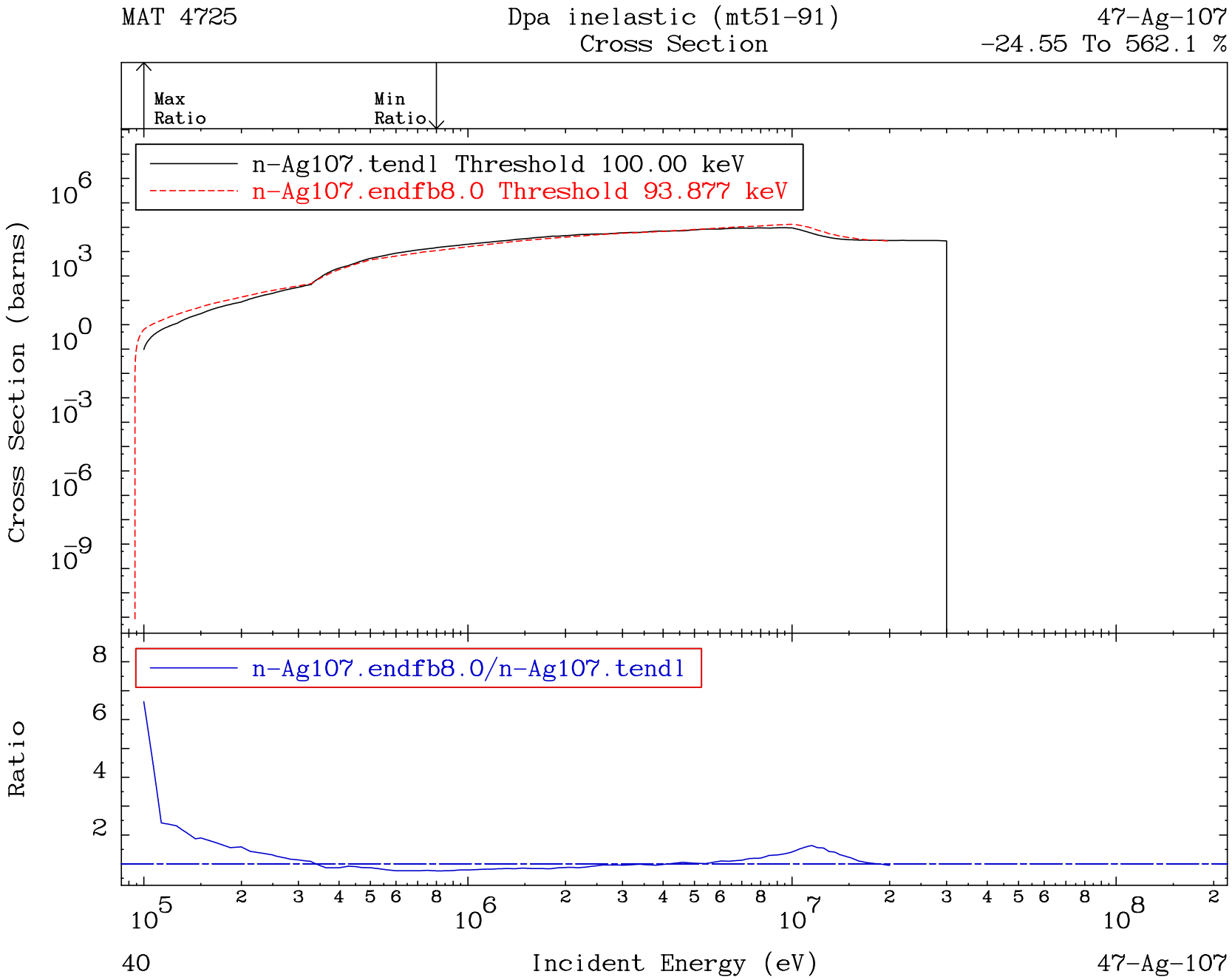

MAT 4725
Kerma capture (mt102)
Cross Section
47-Ag-107
-94.62 To 9999. %
Max Ratio
Min Ratio
n-Ag107.tendl
n-Ag107.endfb8.0
Cross Section (barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
Incident Energy (eV)
35
47-Ag-107

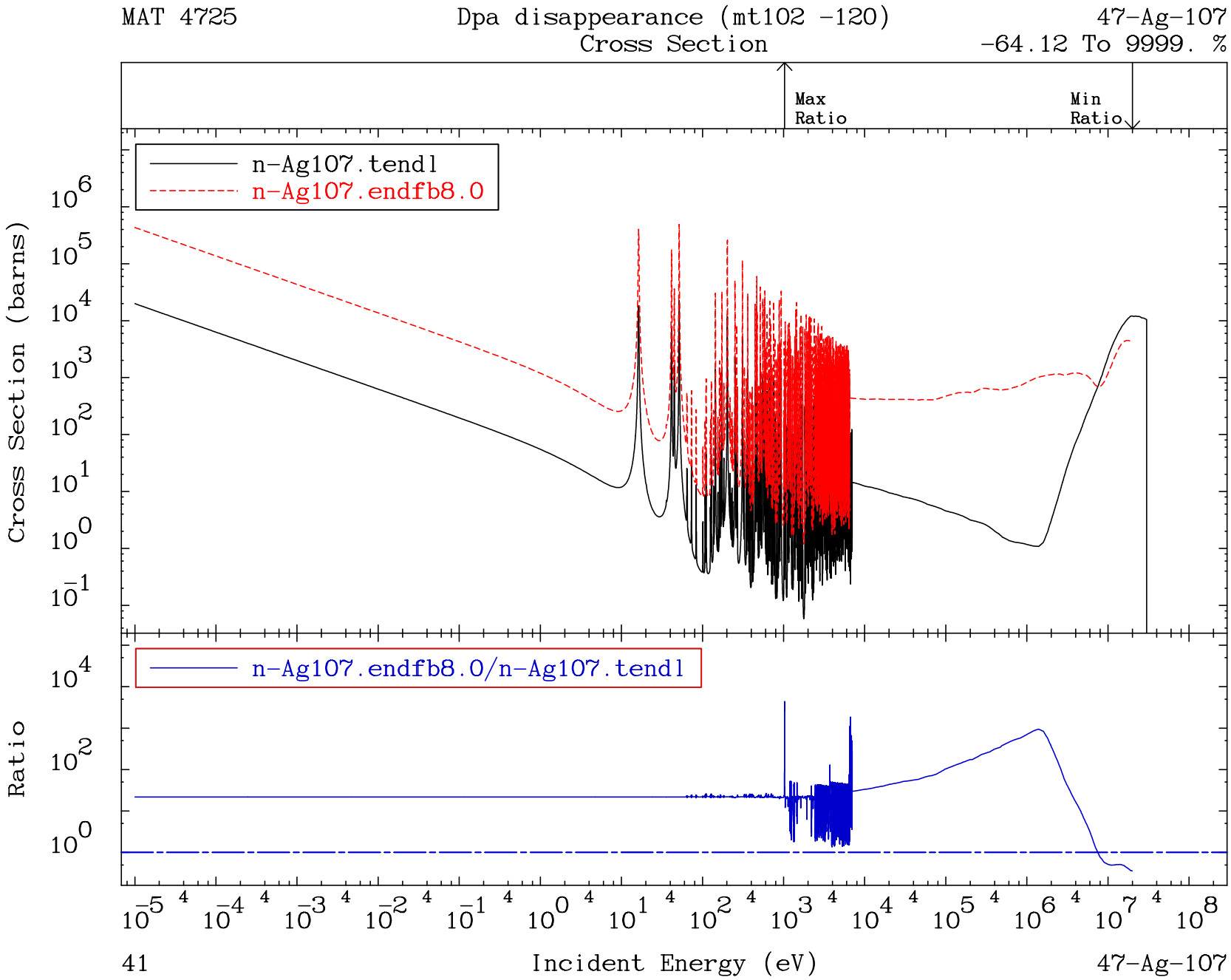

MAT 4725
Total photon (eV-barns)
Cross Section
47-Ag-107
-94.62 To 9999. %
Max Ratio
Min Ratio
n-Ag107.tendl
n-Ag107.endfb8.0
Cross Section (Giga-barns)
16
12
8
4
0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^2
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
36
Incident Energy (eV)
47-Ag-107


MAT 4725
Total kinematic kerma (high limit)
Cross Section
47-Ag-107
-100.0 To -82.96%
Min Ratio
Max Ratio
n-Ag107.tendl
n-Ag107.endfb8.0
Cross Section (barns)
10^10
10^8
10^6
10^4
10^2
10^0
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
10^0
10^-2
10^-4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
37
Incident Energy (eV)
47-Ag-107


MAT 4725
Dpa total (eV-barns)
Cross Section
47-Ag-107
-77.75 To 9999. %
Max Ratio
Min Ratio
n-Ag107.tendl
n-Ag107.endfb8.0
Cross Section (barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
Incident Energy (eV)
38
47-Ag-107


MAT 4725
Dpa elastic (mt2)
Cross Section
47-Ag-107
-85.64 To 503.3 %
Max Ratio
Min Ratio
n-Ag107.tendl Threshold 1.6107 keV
n-Ag107.endfb8.0 Threshold 1.6107 keV
Cross Section (barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
Incident Energy (eV)
39
47-Ag-107


MAT 4725
Dpa inelastic (mt51-91)
Cross Section
47-Ag-107
-24.55 To 562.1 %
Max Ratio
Min Ratio
n-Ag107.tendl Threshold 100.00 keV
n-Ag107.endfb8.0 Threshold 93.877 keV
Cross Section (barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
Incident Energy (eV)
40
47-Ag-107


MAT 4725
Dpa disappearance (mt102 -120)
Cross Section
47-Ag-107
-64.12 To 9999. %
Max Ratio
Min Ratio
n-Ag107.tendl
n-Ag107.endfb8.0
Cross Section (barns)
n-Ag107.endfb8.0/n-Ag107.tendl
Ratio
Incident Energy (eV)
41
47-Ag-107