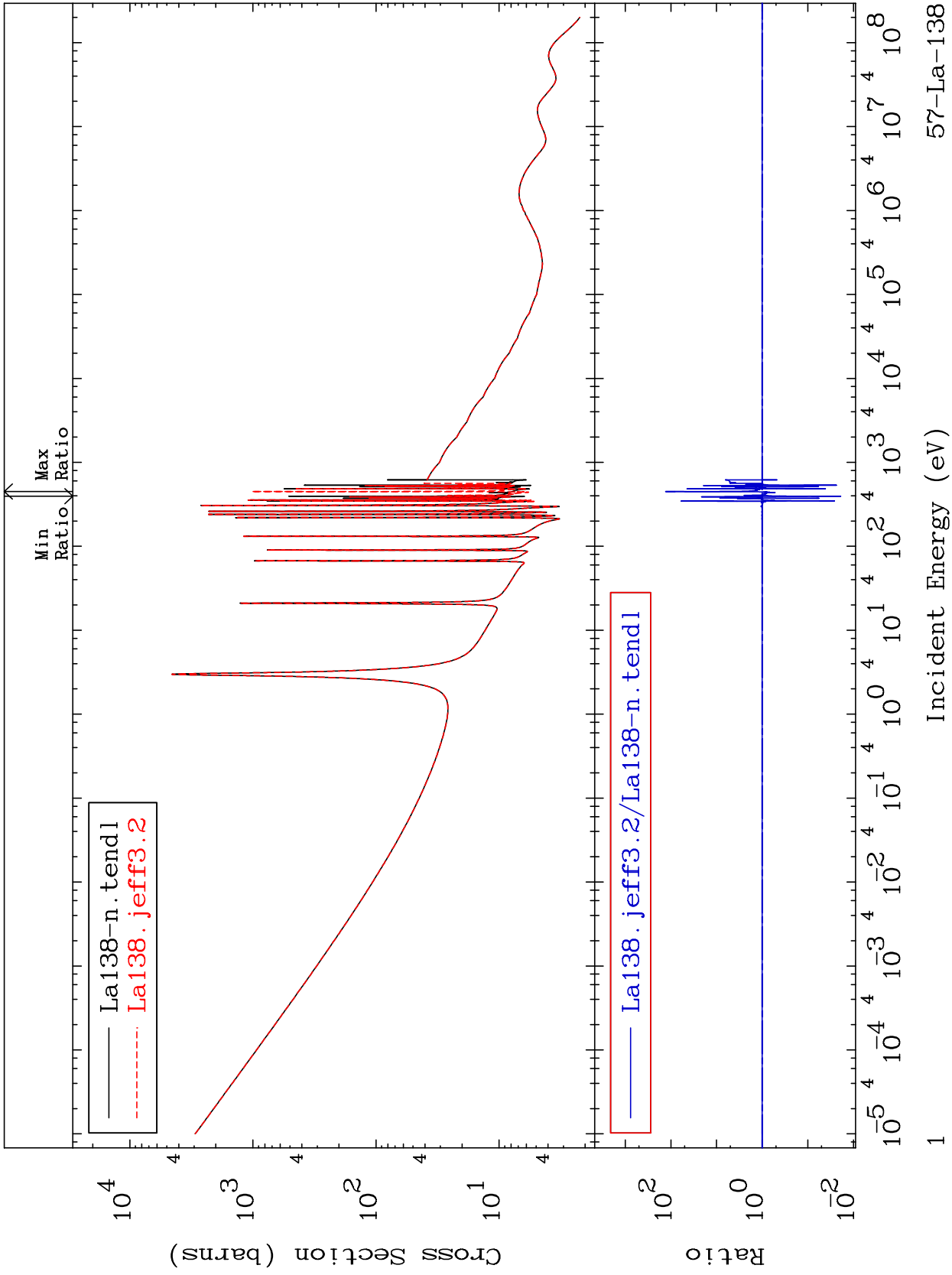


MAT 5725

Total
Cross Section

57-La-138
-98.09 To 9999. %

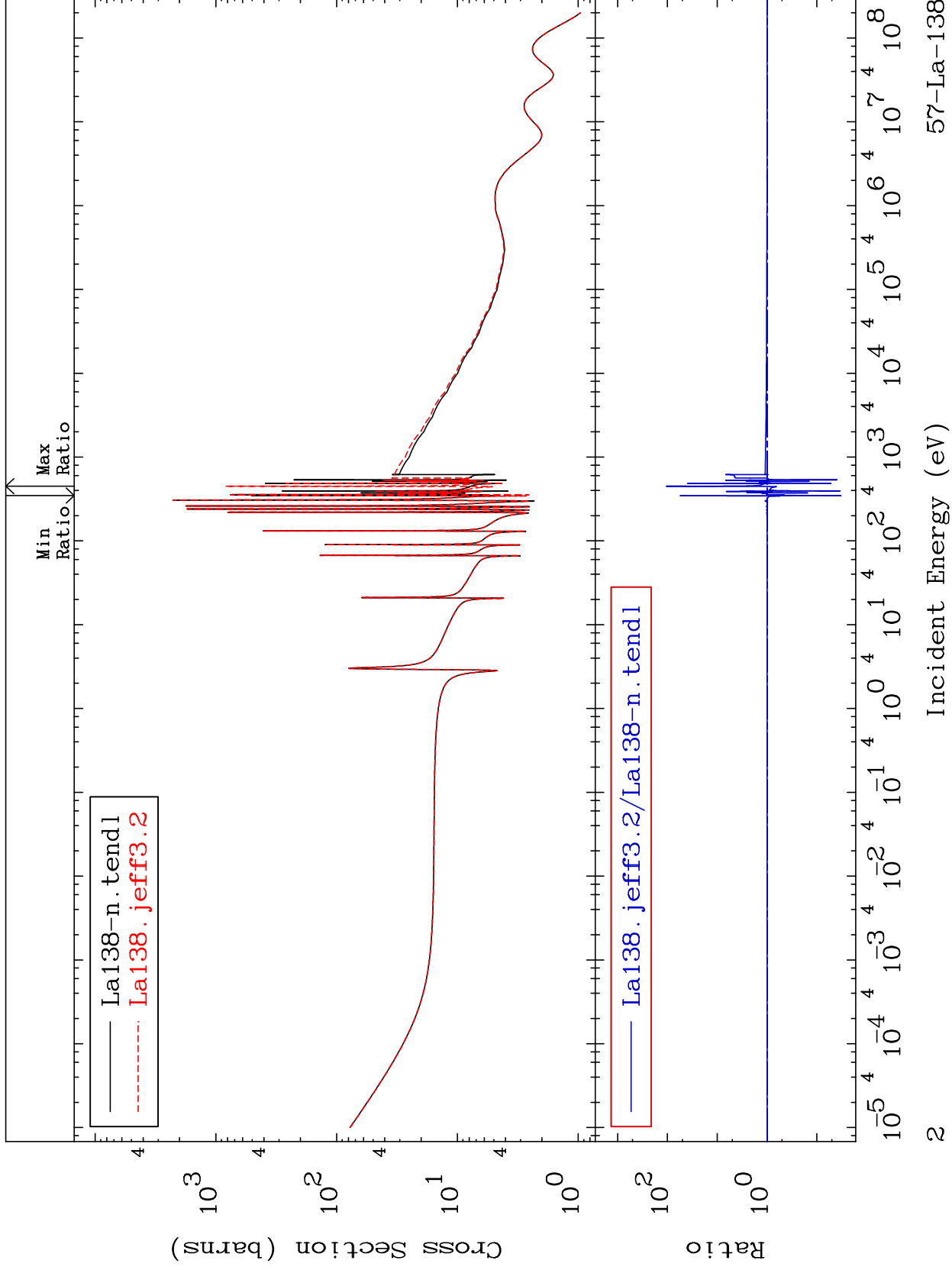


57-La-138

MAT 5725

Elastic
Cross Section

57-La-138
-96.69 To 9999. %



57-La-138

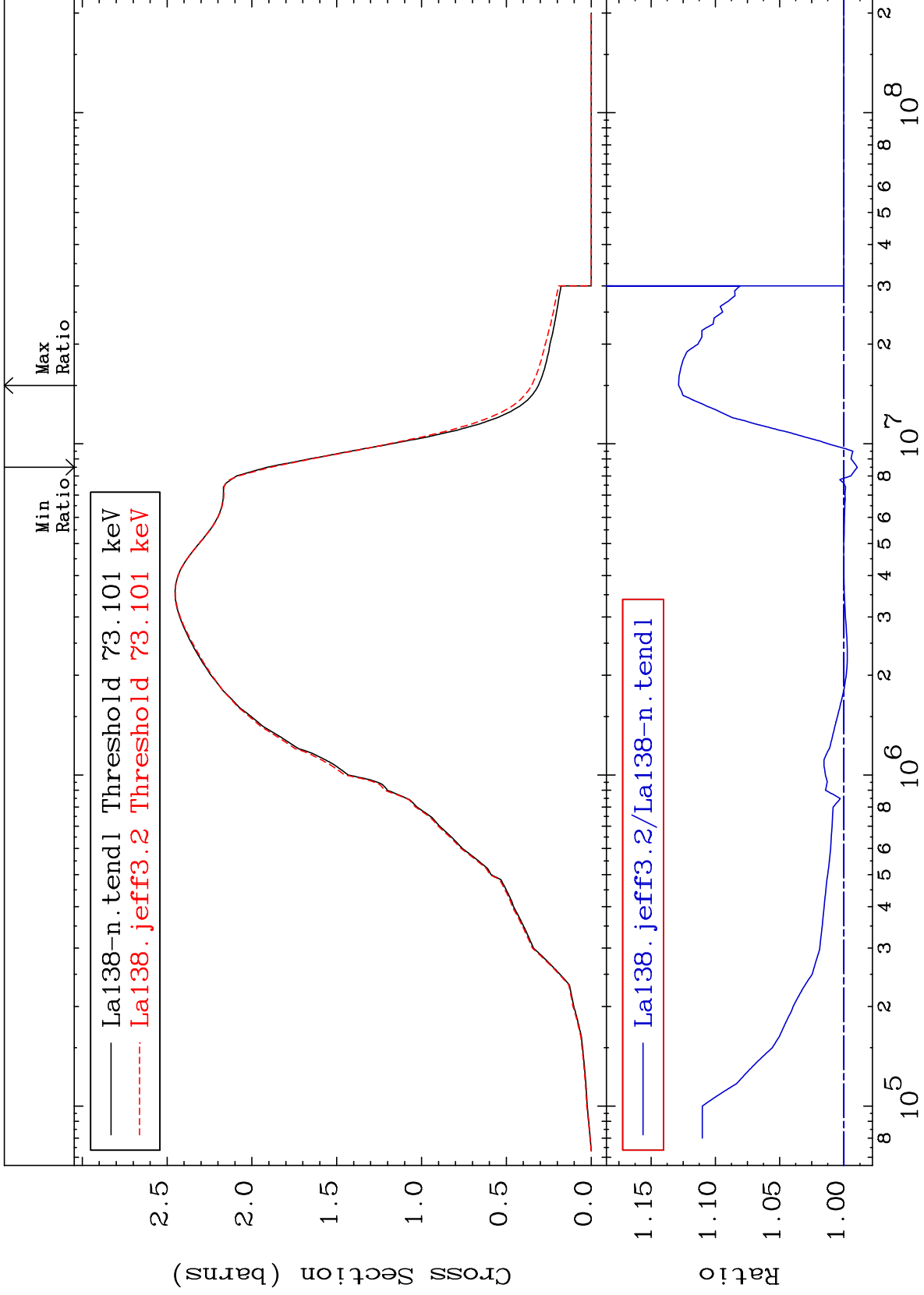
Incident Energy (eV)

2

MAT 5725

Inelastic
Cross Section

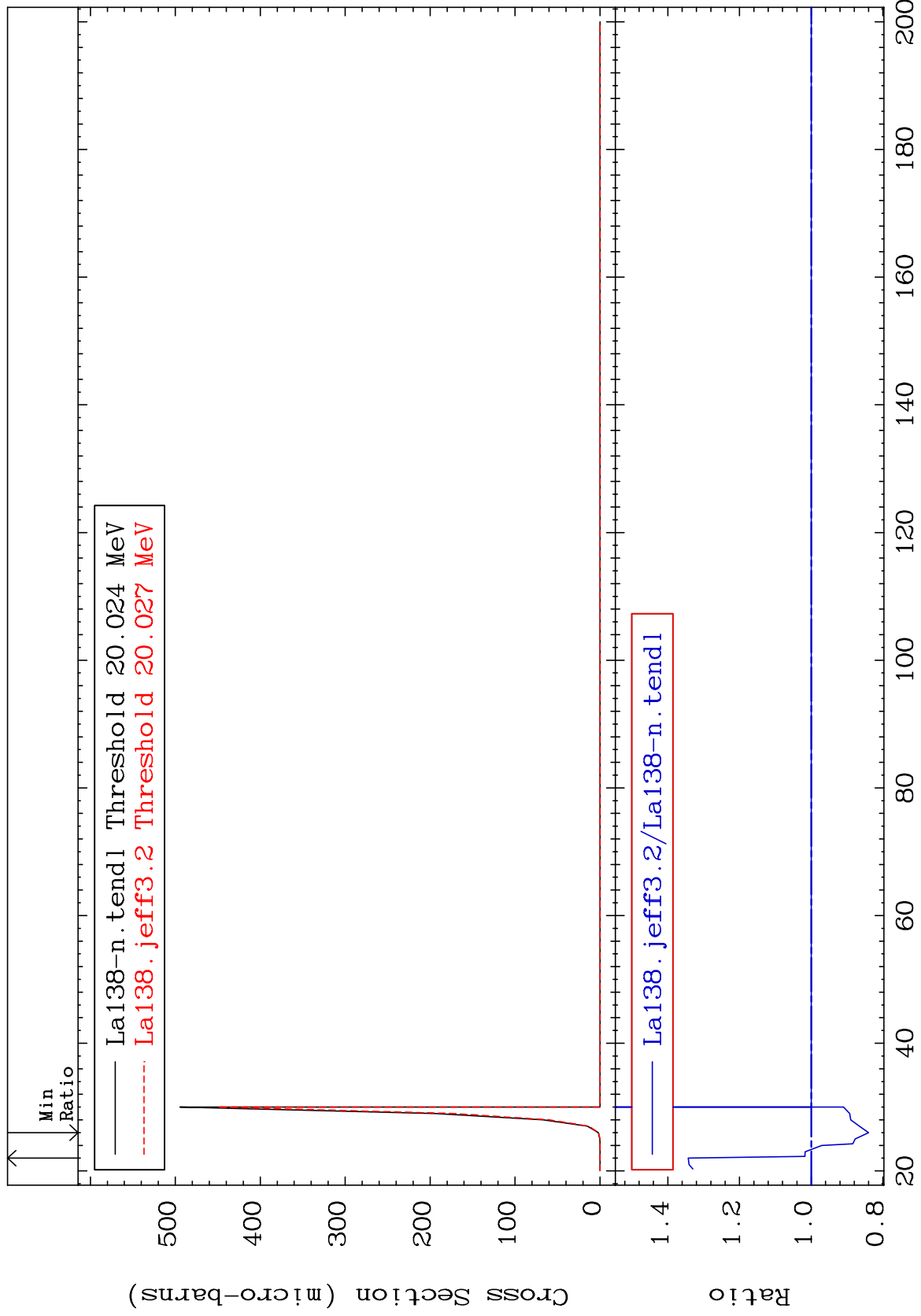
57-La-138
-1.045 To 12.86 %



MAT 5725

(n,2n) d
Cross Section

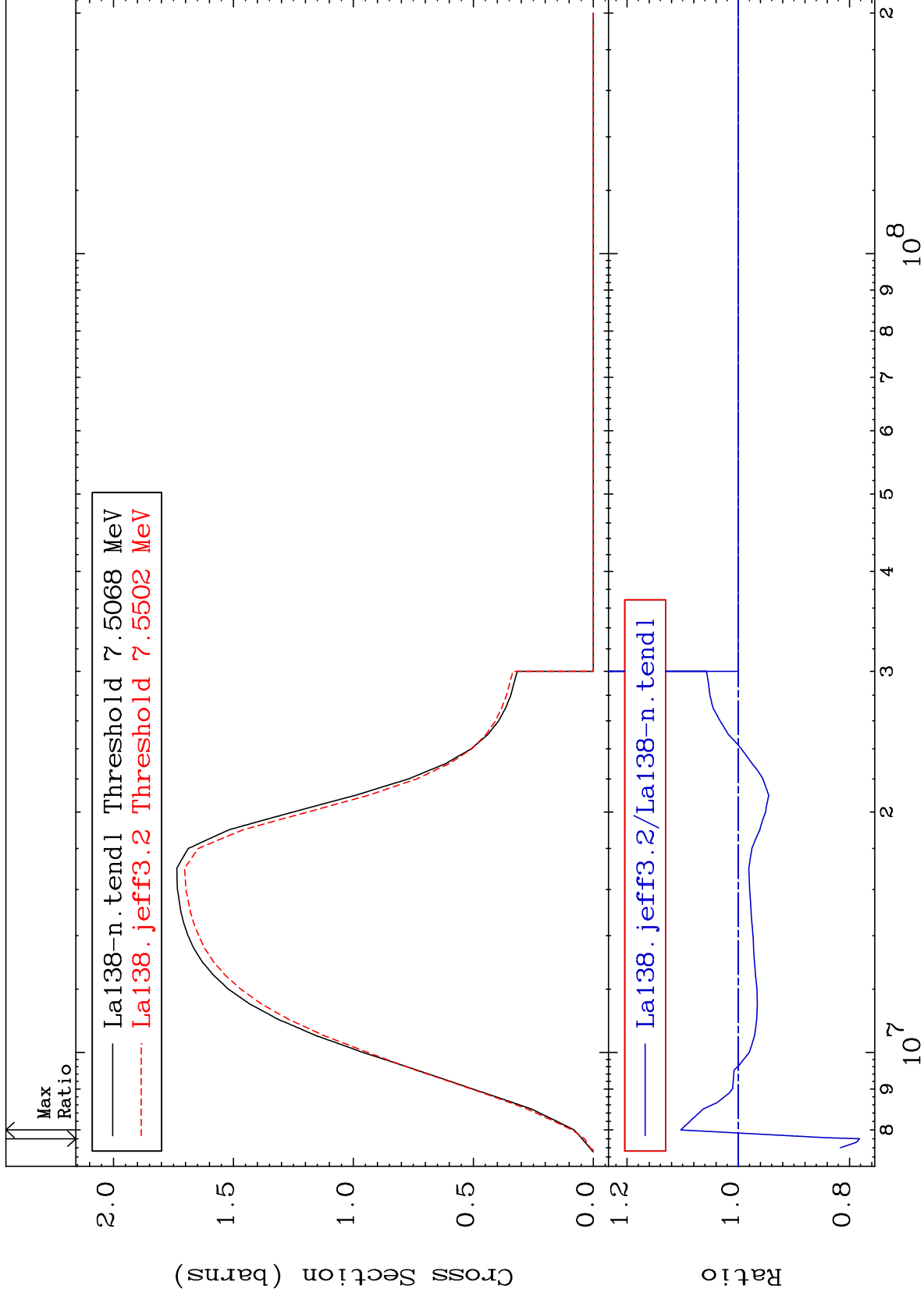
57-La-138
-15.99 To 34.29 %



MAT 5725

(n,2n)
Cross Section

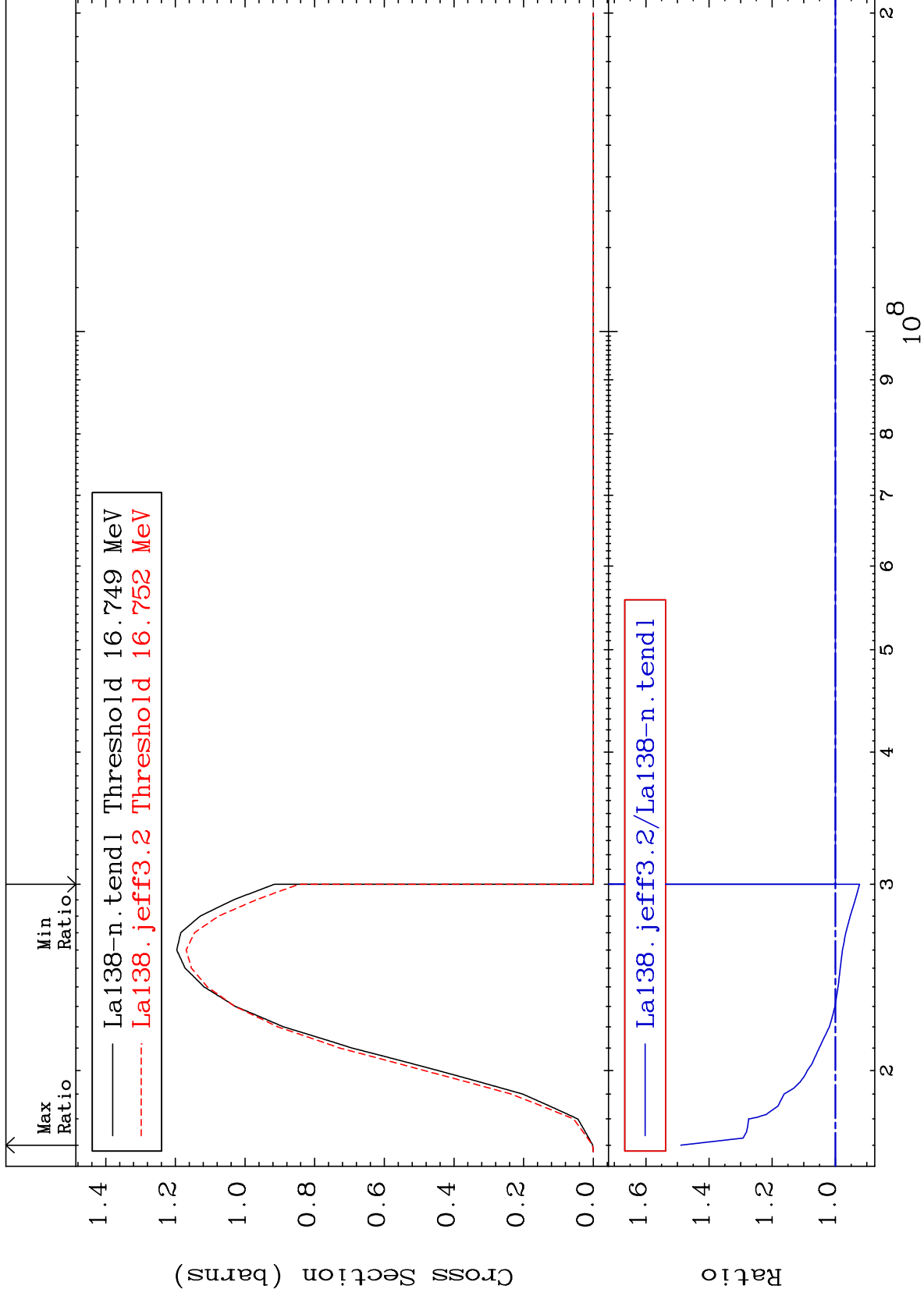
57-La-138
-21.80 To 10.34 %



5

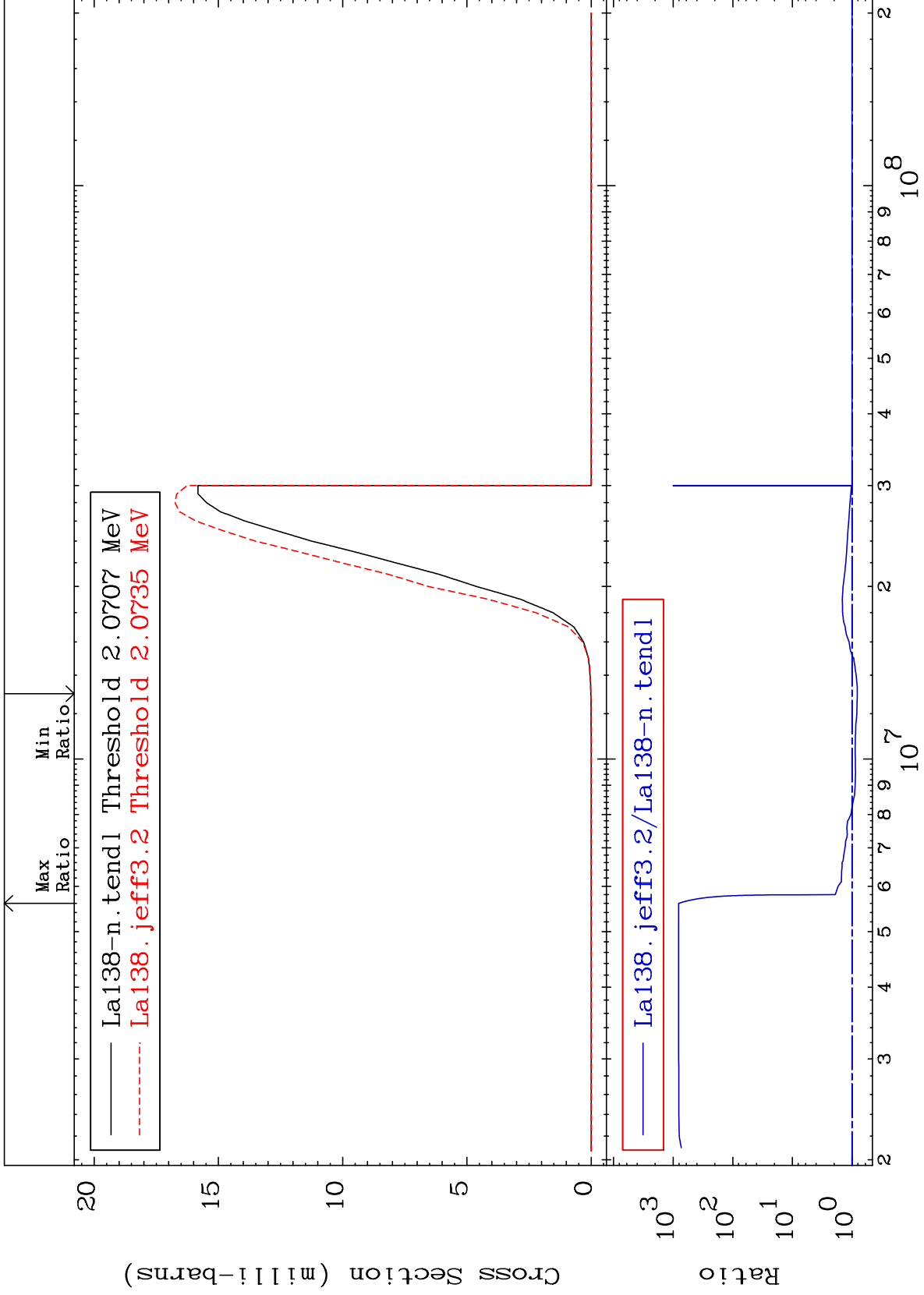
Incident Energy (eV)

57-La-138



MAT 5725

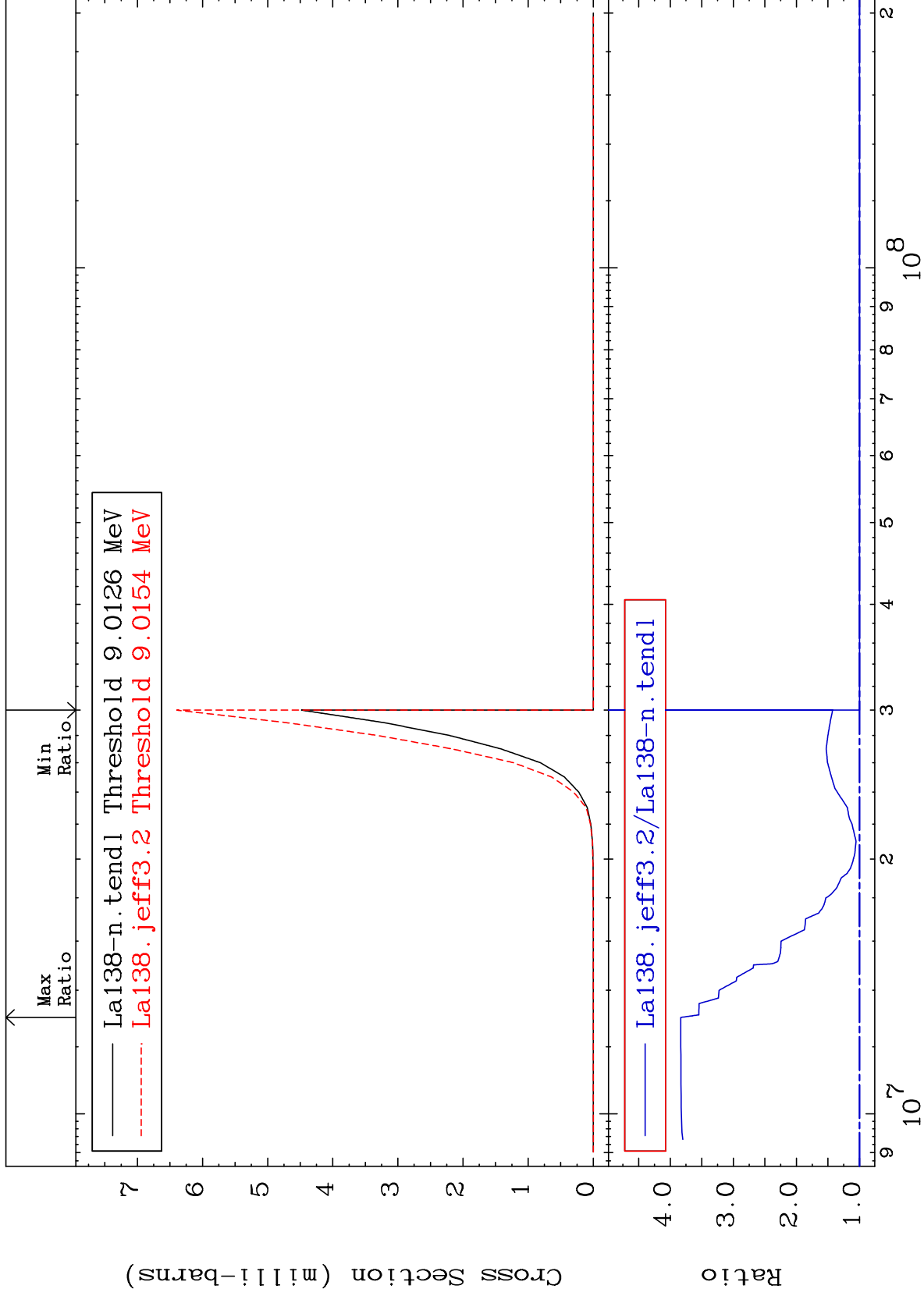
(n, n') α
Cross Section
57-La-138
-18.09 To 9999. %



MAT 5725

(n,2n) α
Cross Section

57-La-138
0.000 To 283.3 %



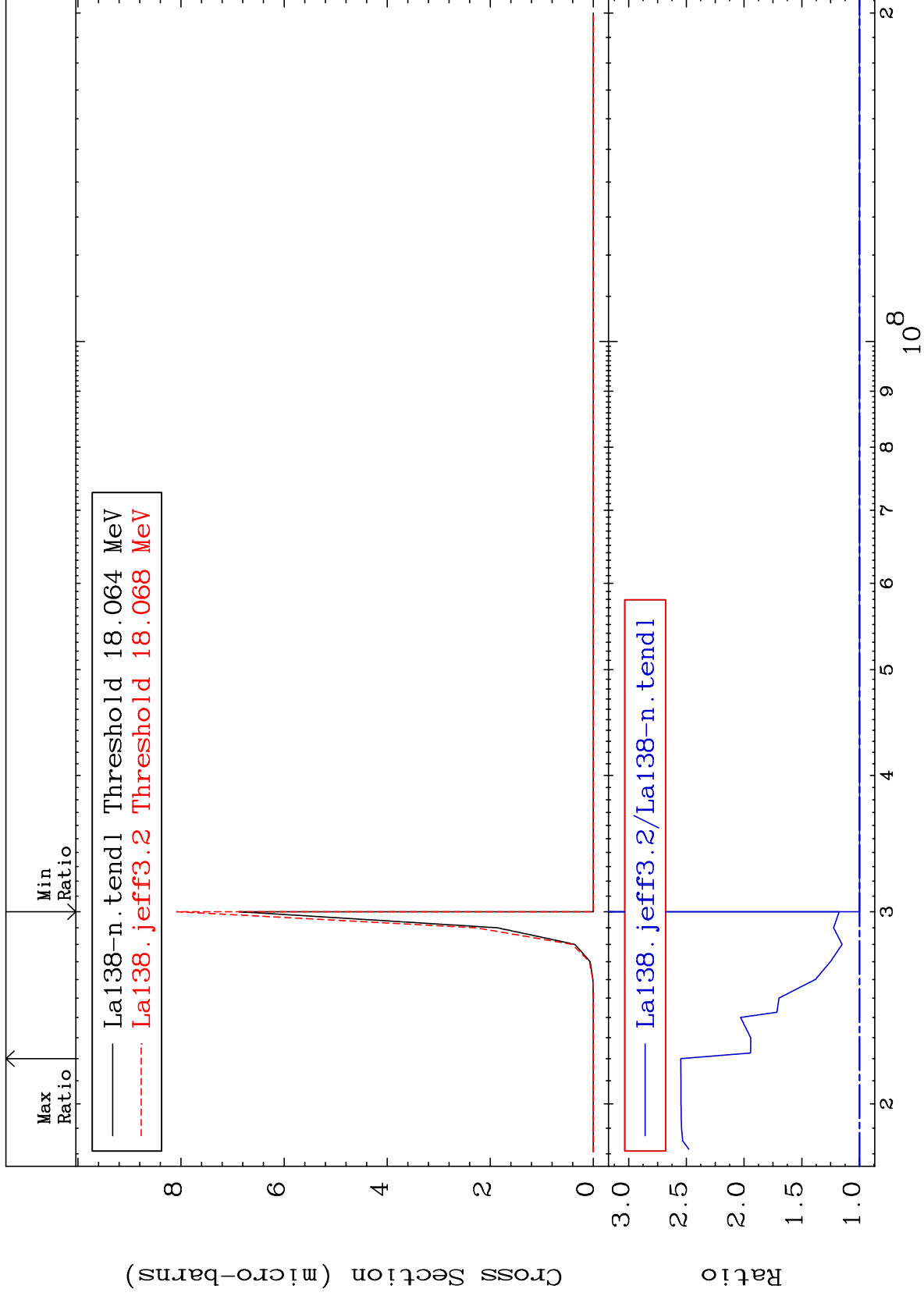
57-La-138

57-La-138

MAT 5725

(n,3n) α
Cross Section

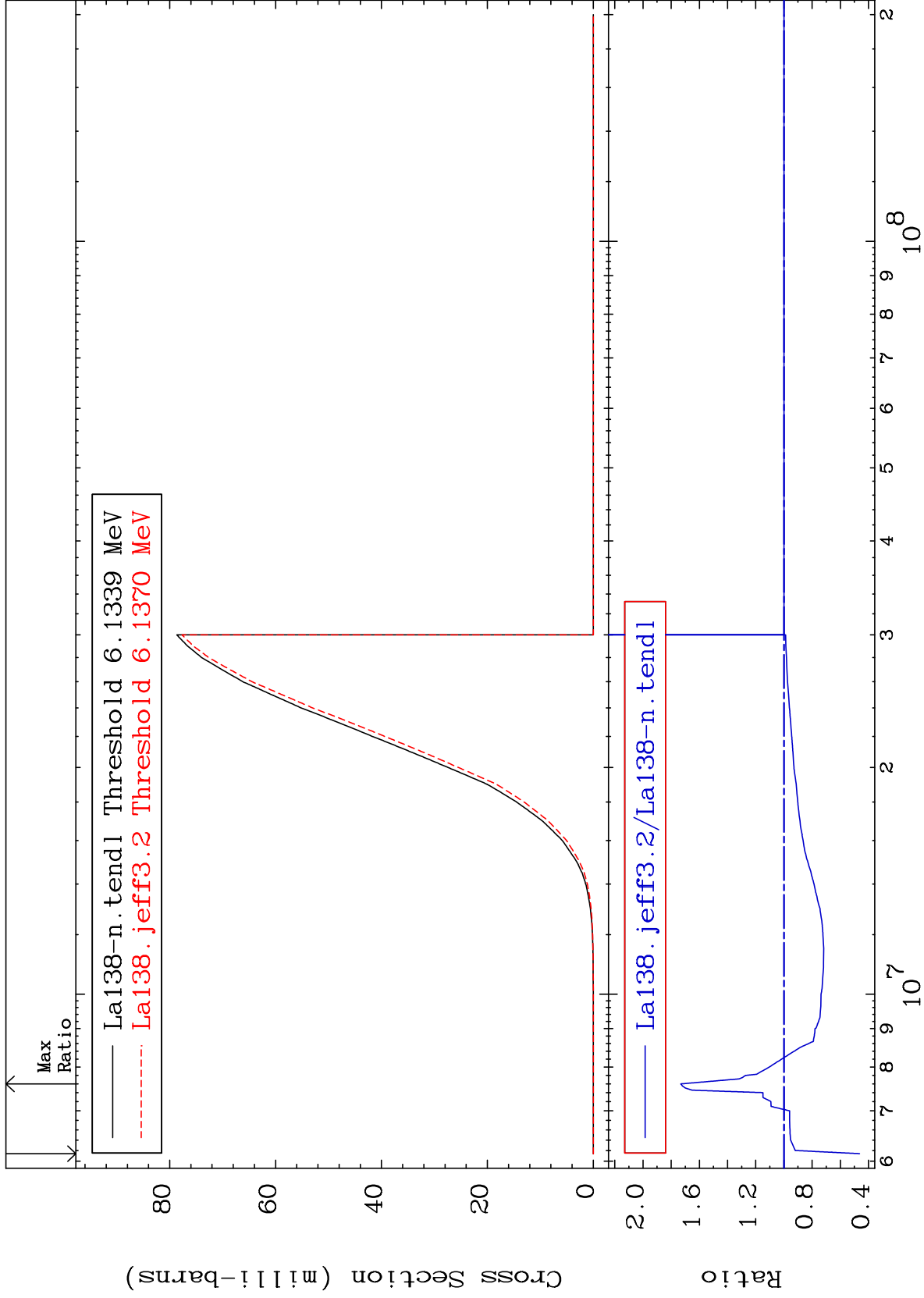
57-La-138
0.000 To 154.9 %



MAT 5725

(n, n') p
Cross Section

57-La-138
-53.66 To 73.20 %



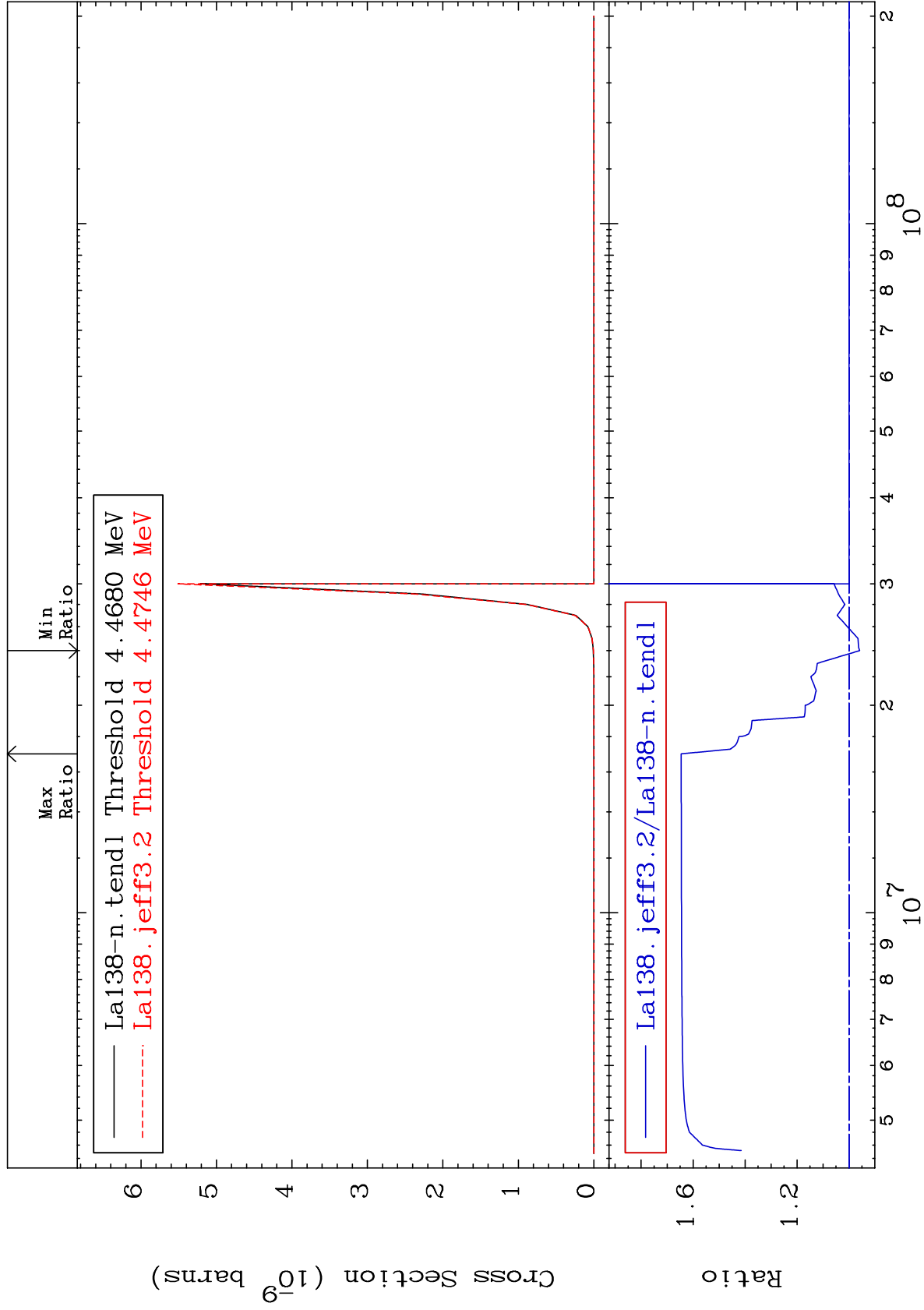
10

Incident Energy (eV)

57-La-138

MAT 5725

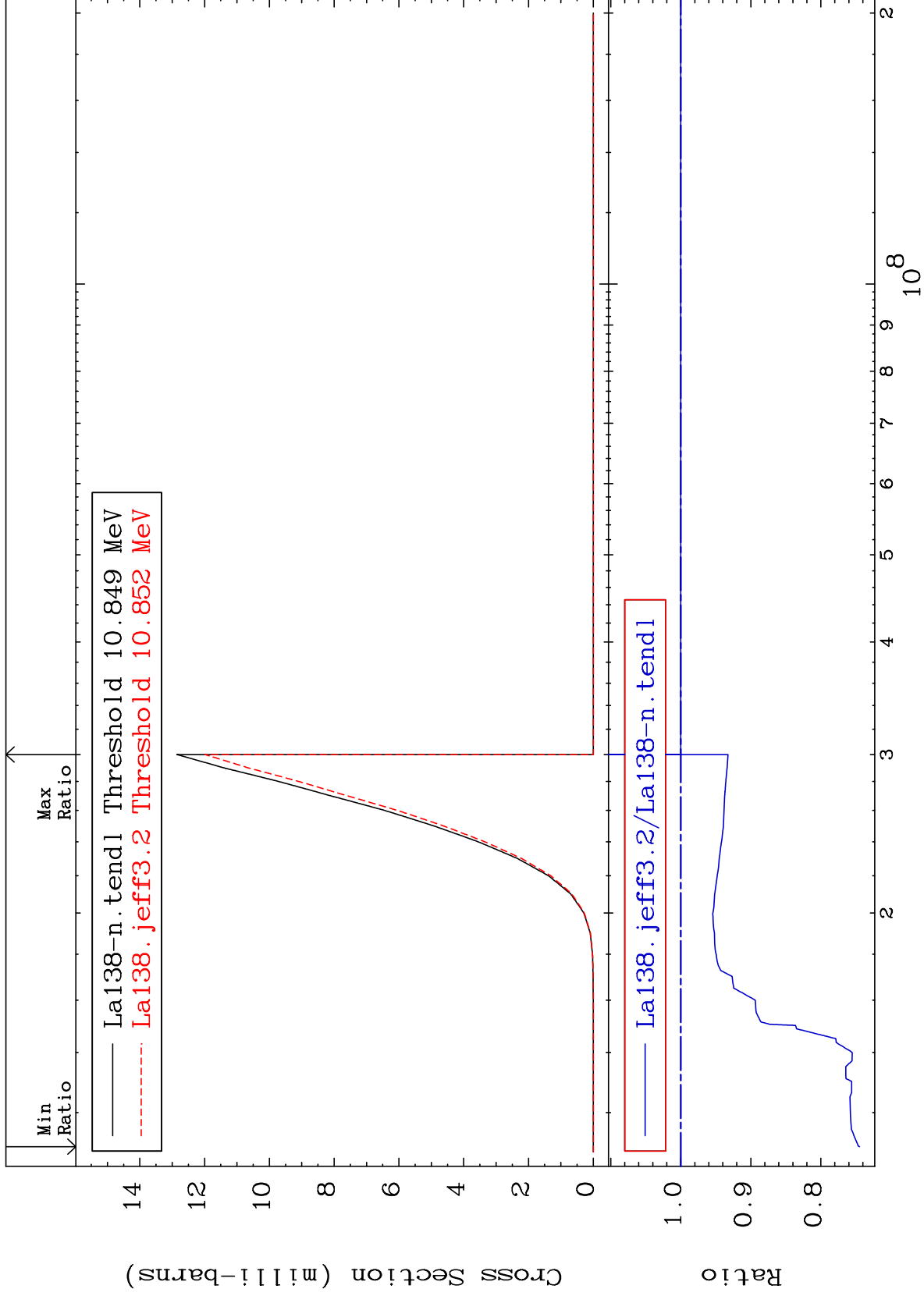
(n, n') 2α
Cross Section
57-La-138
-4.109 To 64.58 %



11

Incident Energy (eV)

57-La-138



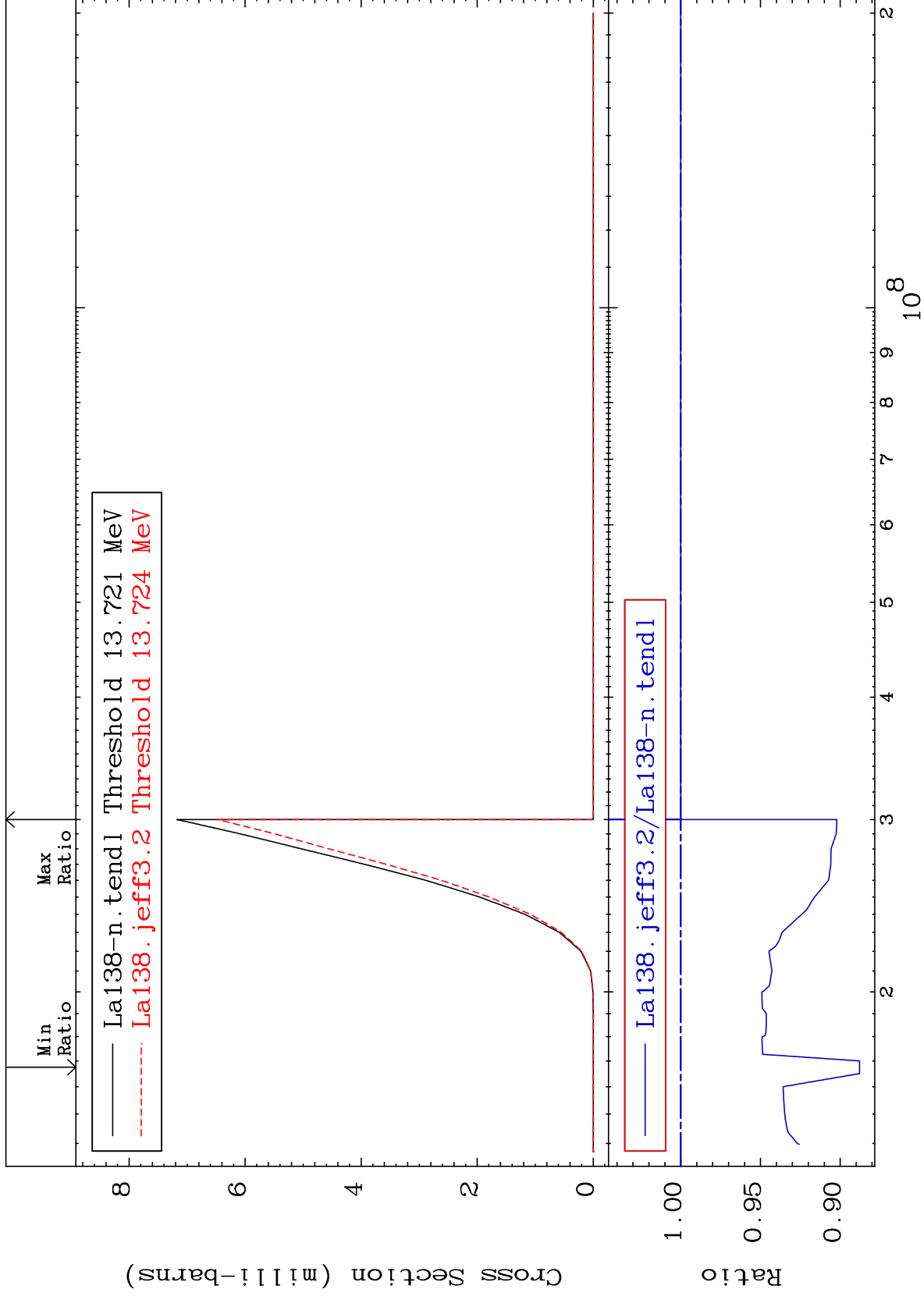
MAT 5725

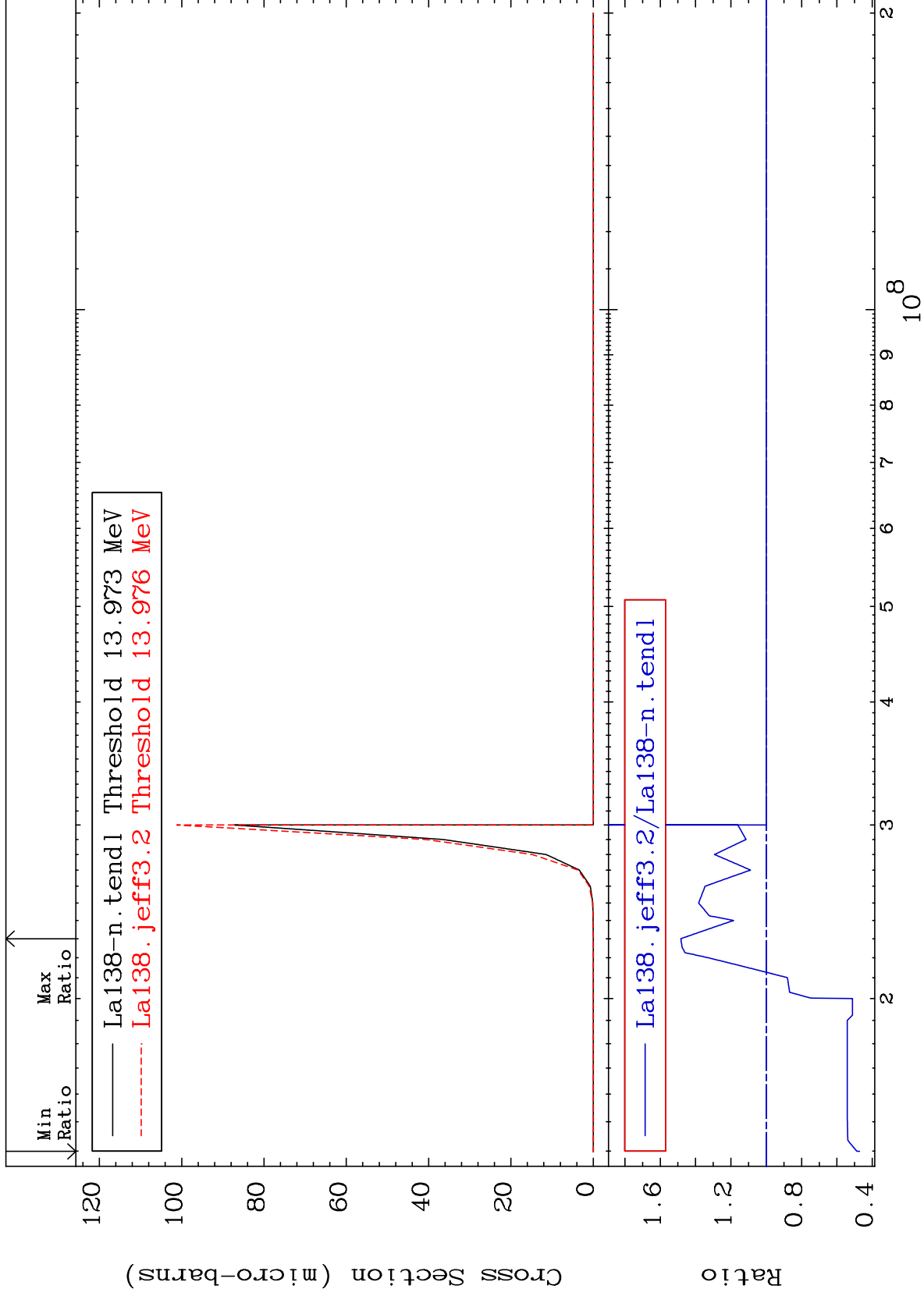
(n, n') t

57-La-138

Cross Section

-11.21 To 0.000 %

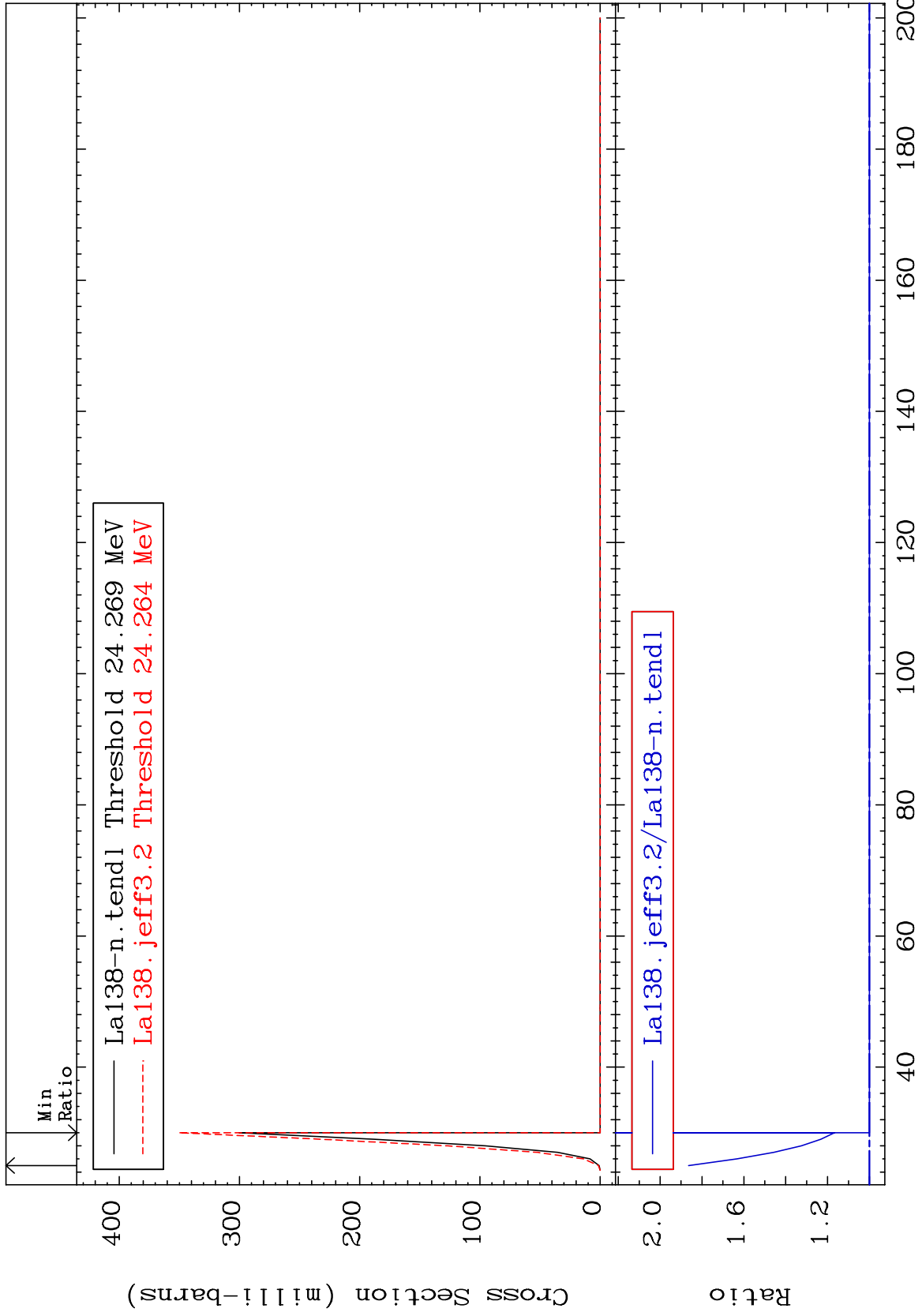




MAT 5725

(n,4n)
Cross Section

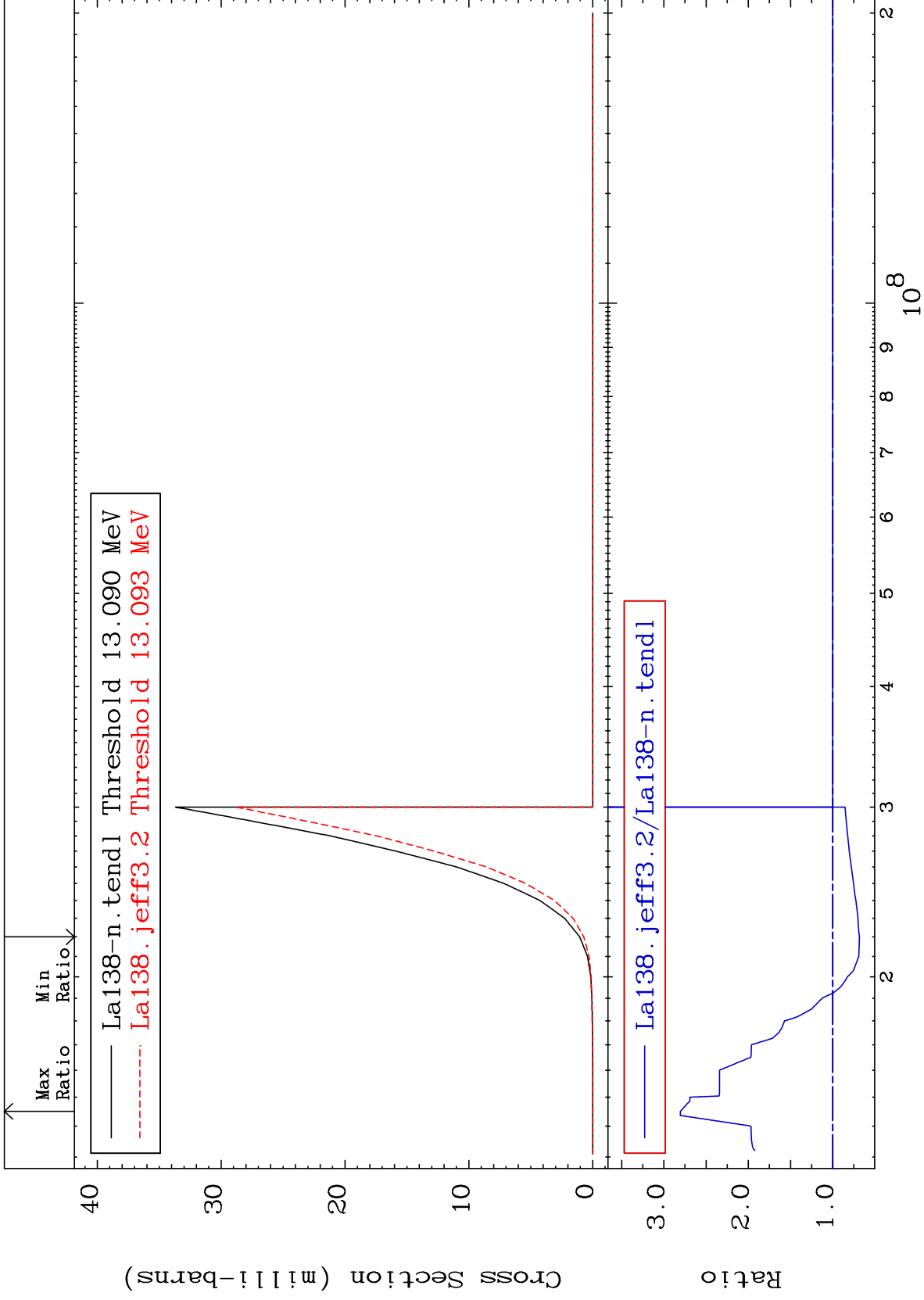
57-La-138
0.000 To 86.39 %



MAT 5725

(n,2n) p
Cross Section

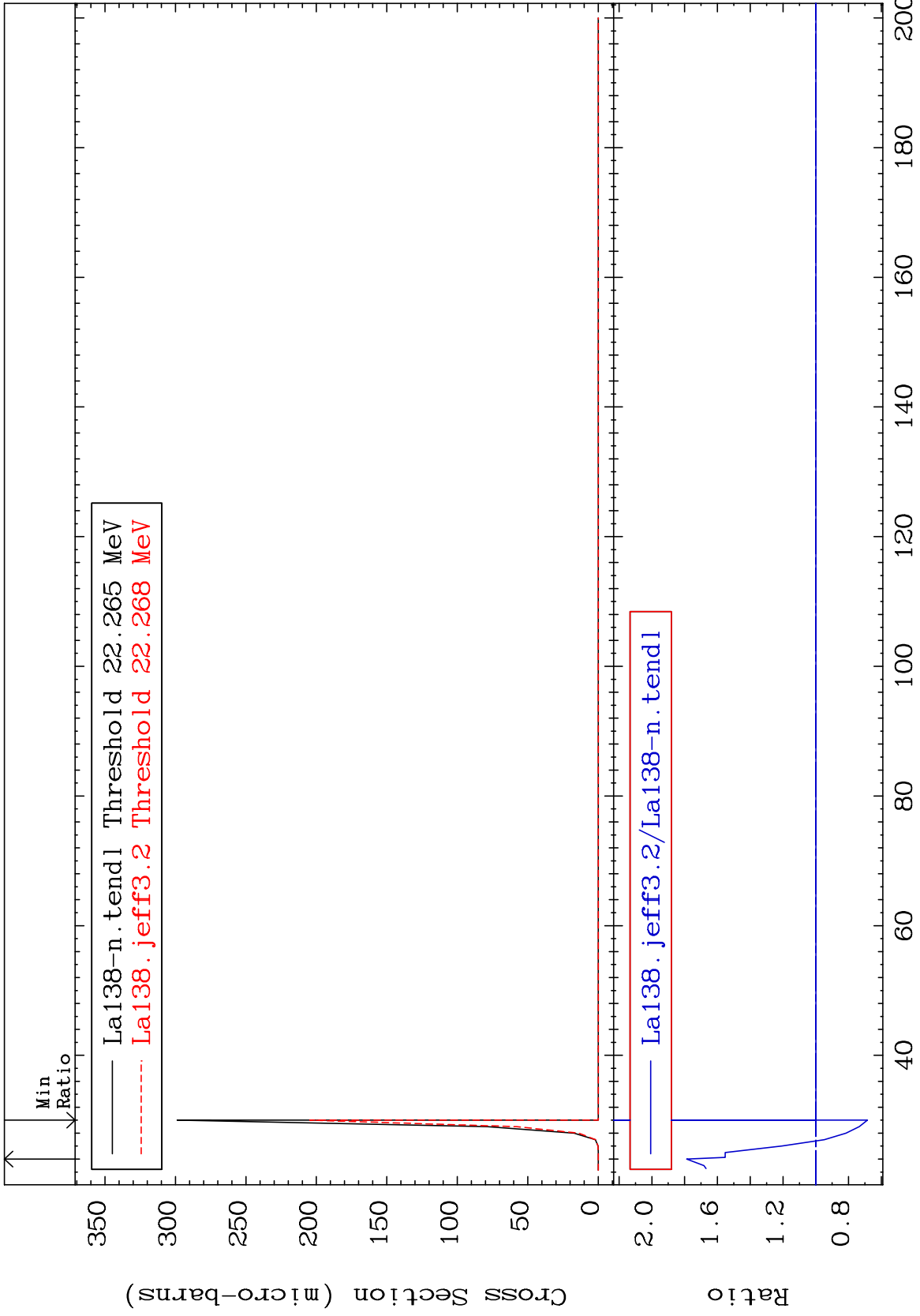
57-La-138
-31.58 To 180.5 %



MAT 5725

(n,3n) p
Cross Section

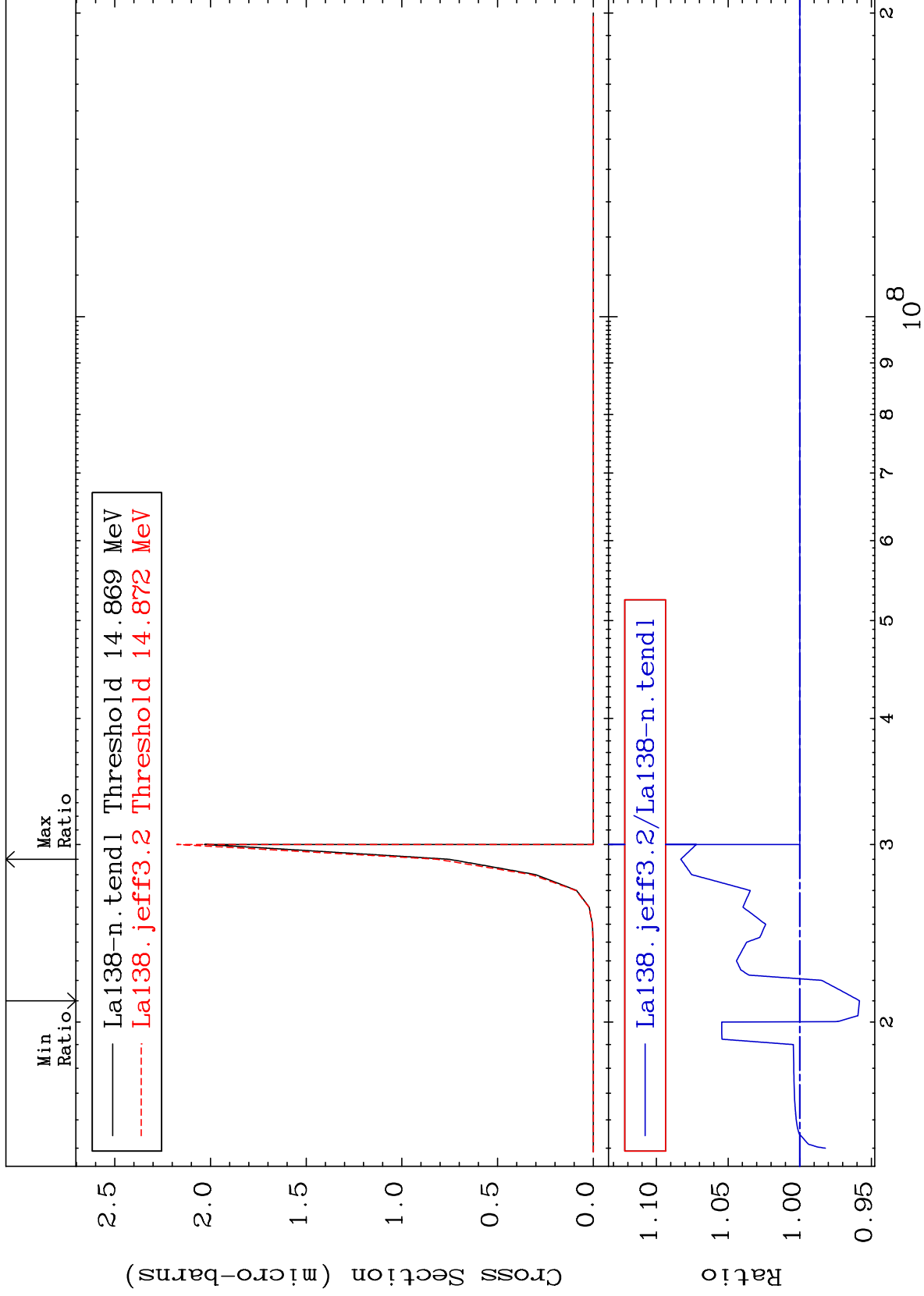
57-La-138
-31.51 To 78.73 %



MAT 5725

(n,2n) p
Cross Section

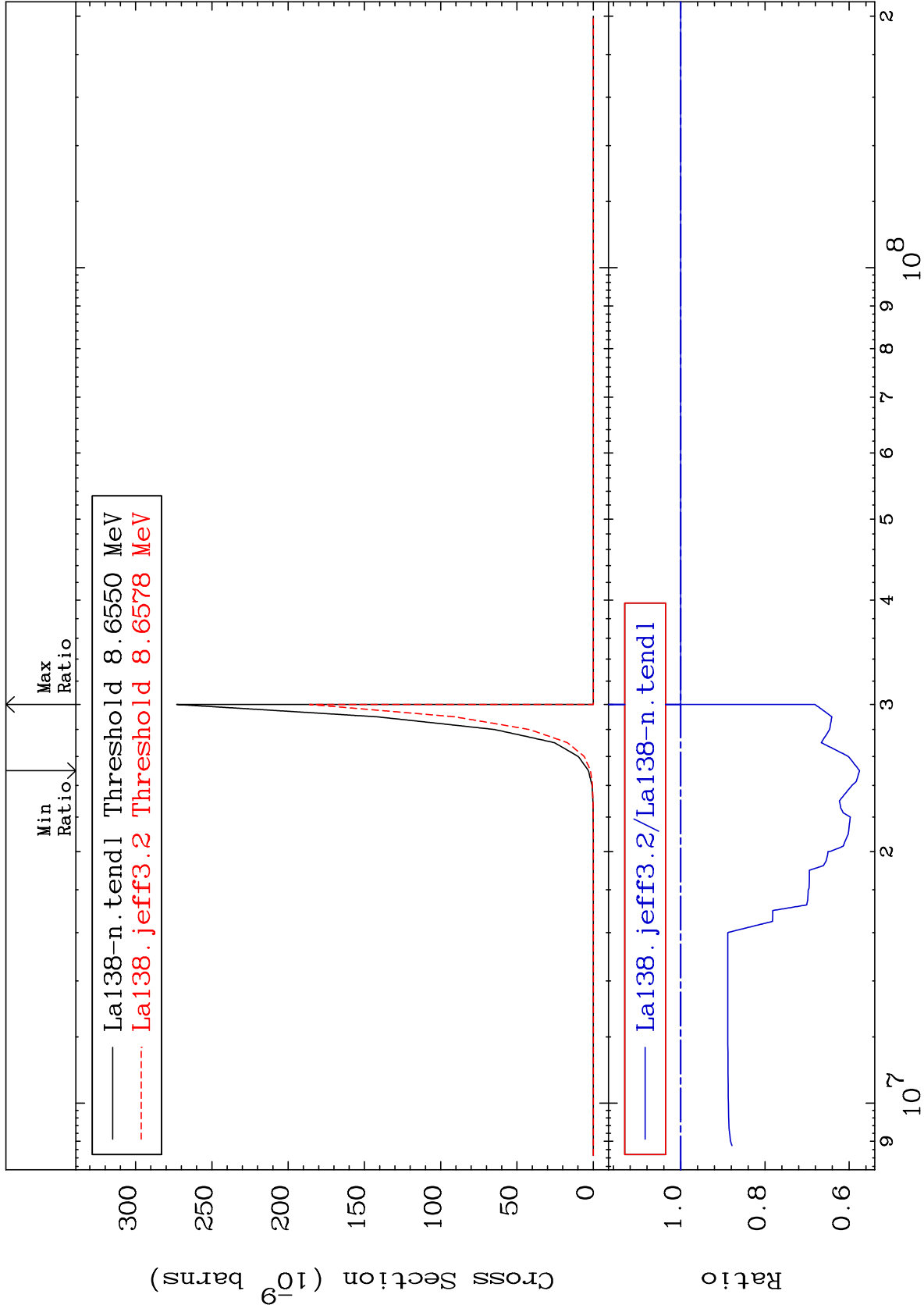
57-La-138
-4.173 To 8.302 %



MAT 5725

(n,n') p α
Cross Section

57-La-138
-42.46 To 0.000 %



19

Incident Energy (eV)

57-La-138

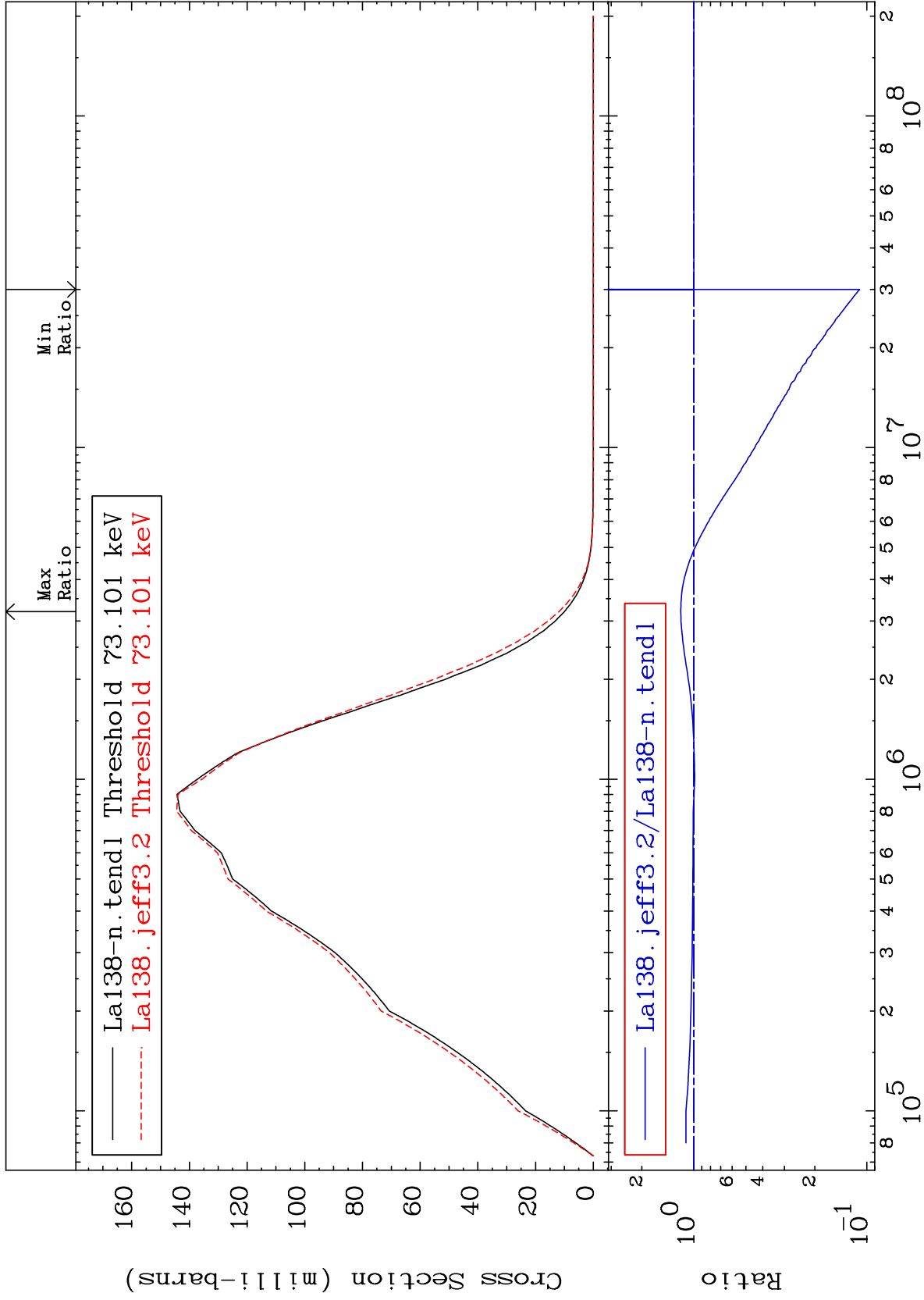
MAT 5725

72.57 keV (n,n') Level

57-La-138

-88.98 To 18.95 %

Cross Section



20

Incident Energy (eV)

57-La-138

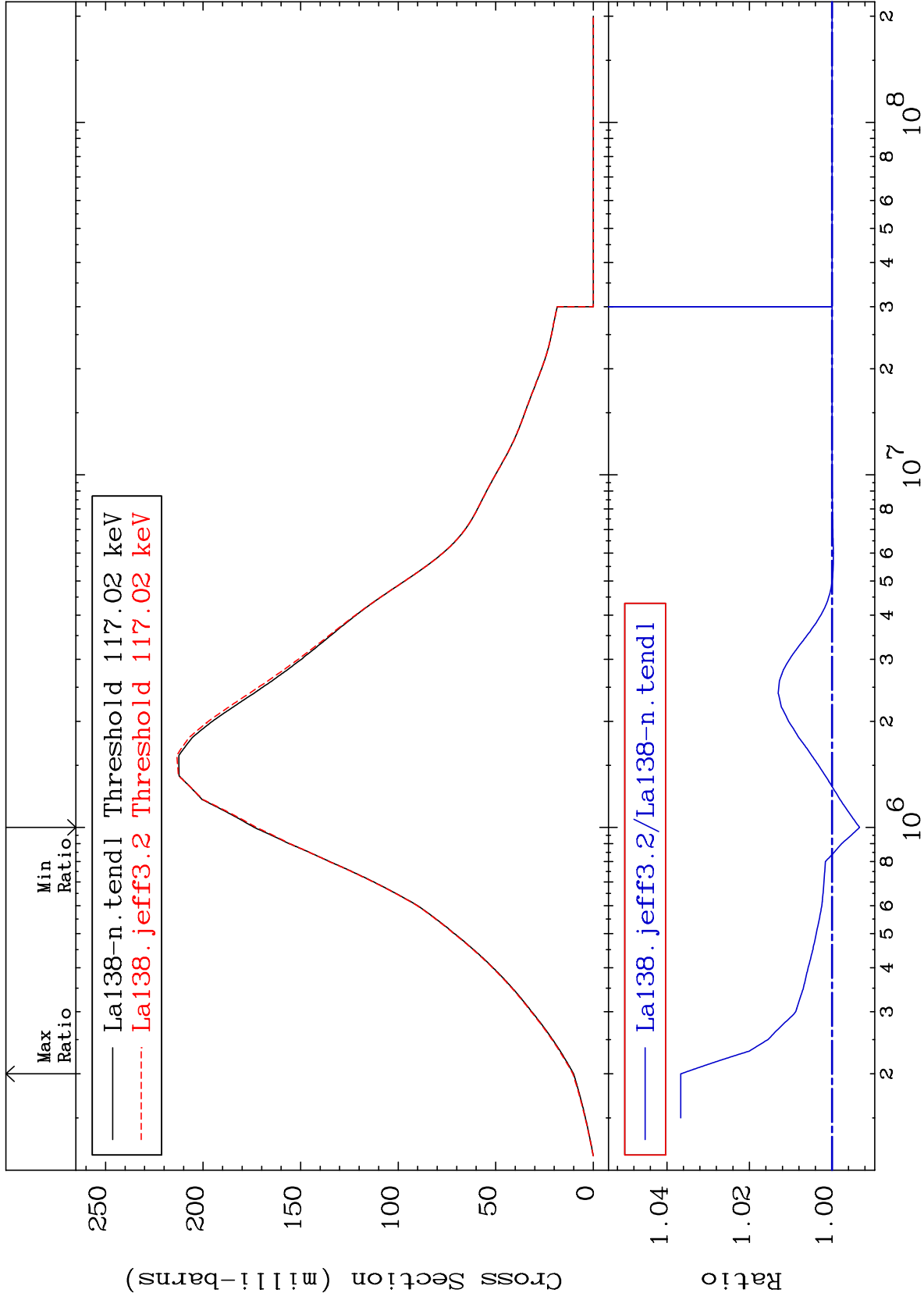
MAT 5725

116.2 keV (n,n') Level

57-La-138

-0.668 To 3.663 %

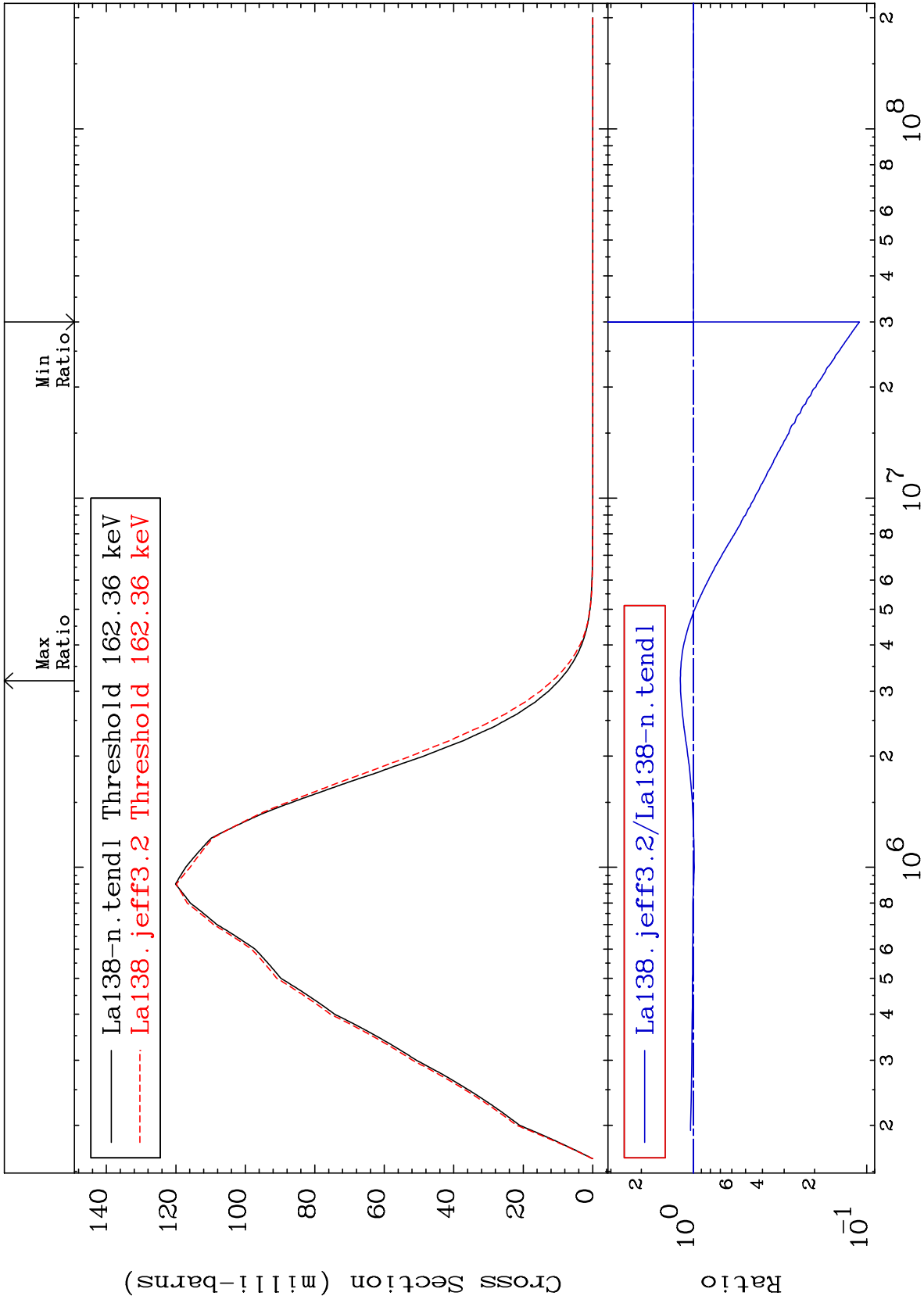
Cross Section



MAT 5725

161.2 keV (n,n') Level
Cross Section

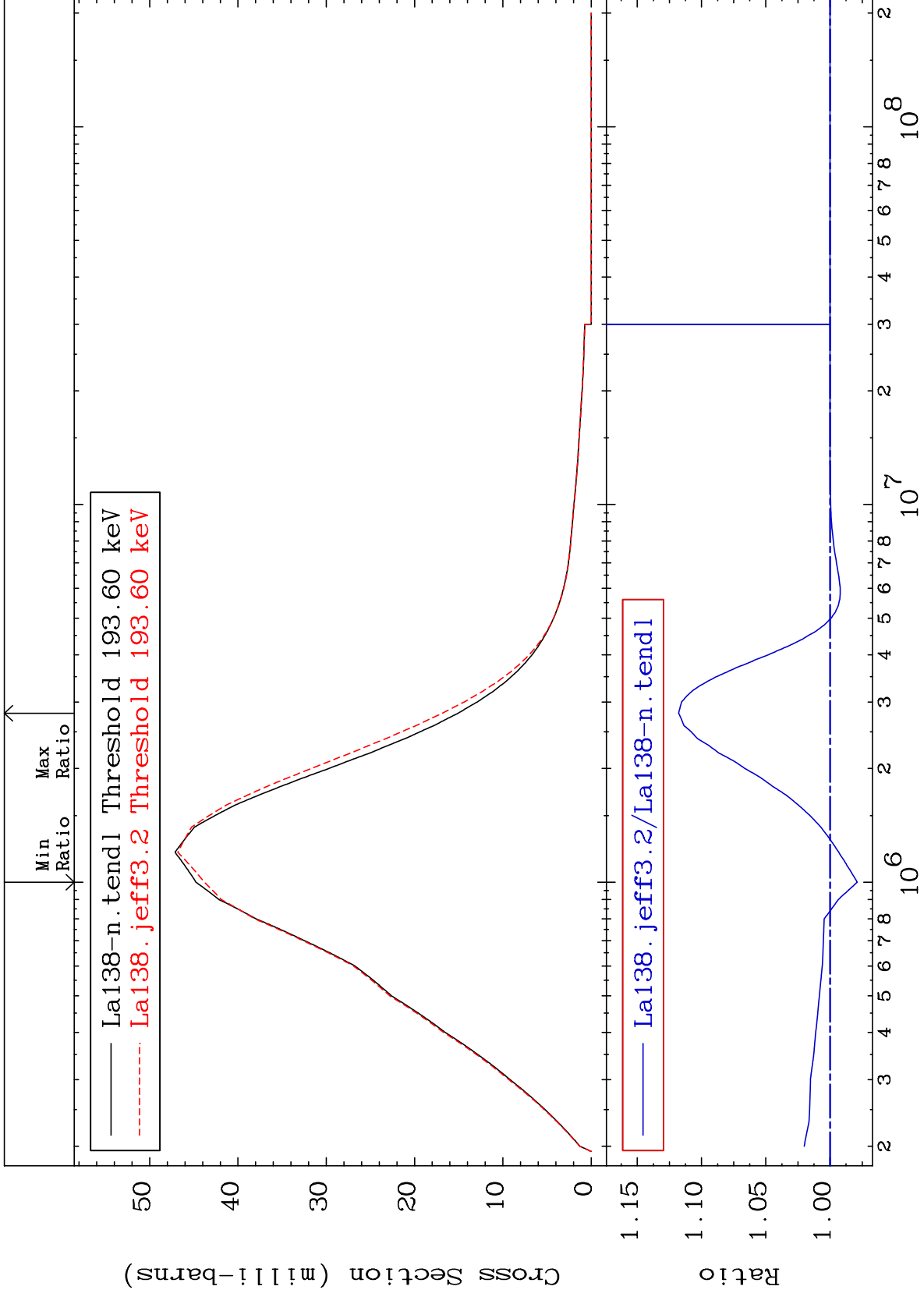
57-La-138
-88.98 To 19.01 %



MAT 5725

192.2 keV (n,n') Level
Cross Section

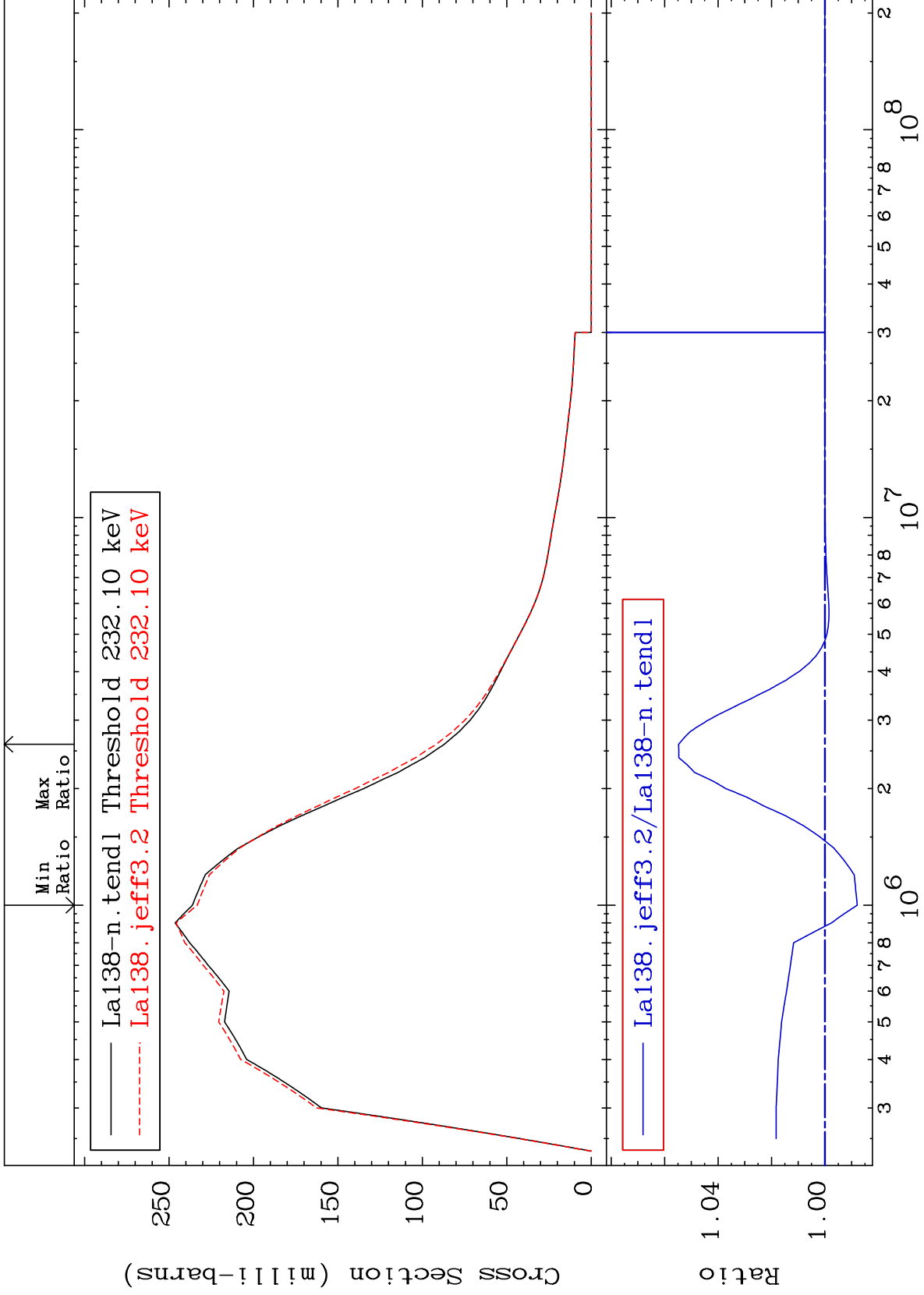
57-La-138
-2.116 To 11.78 %



MAT 5725

230.4 keV (n,n') Level
Cross Section

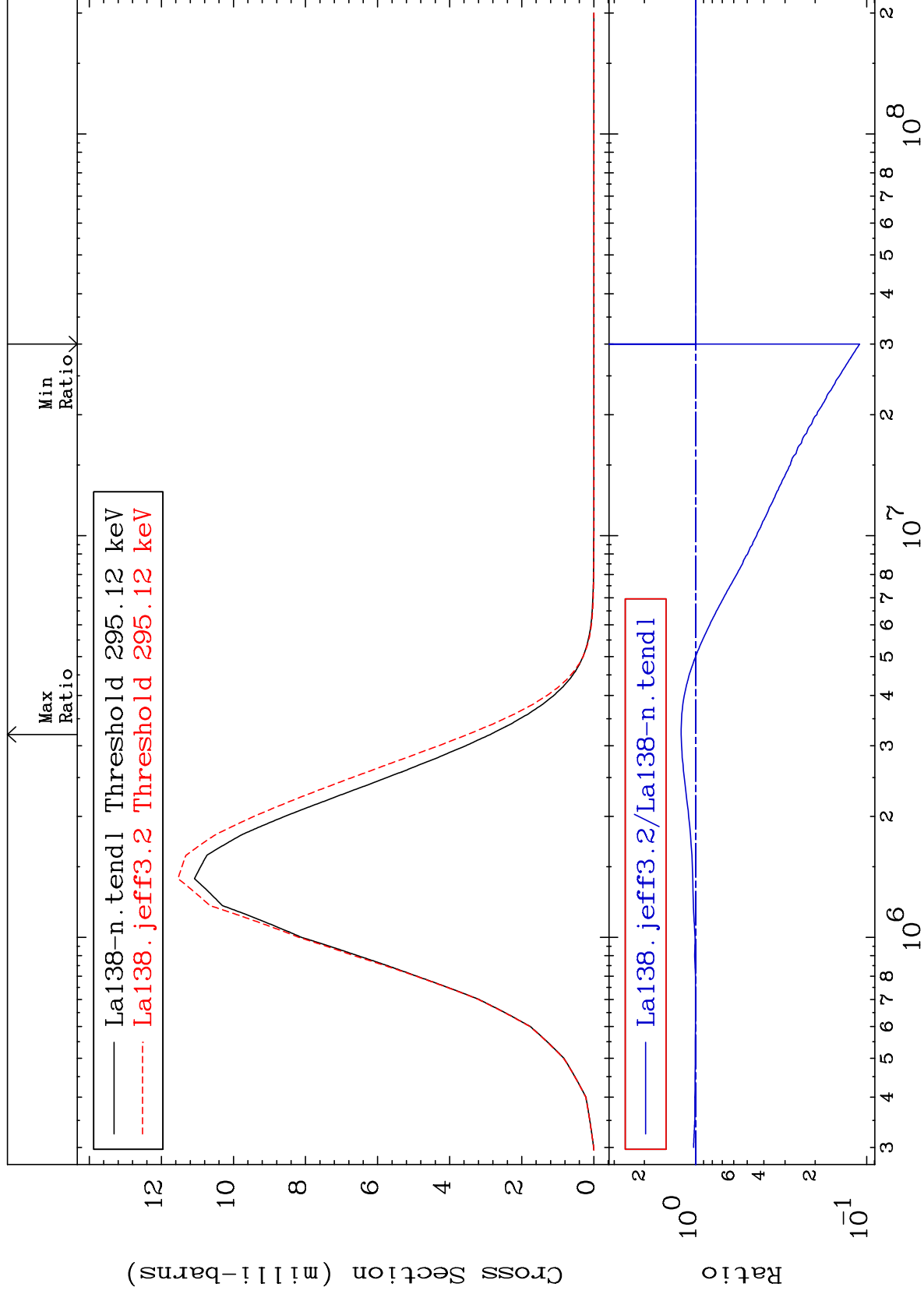
57-La-138
-1.212 To 5.475 %



MAT 5725

293.0 keV (n,n') Level
Cross Section

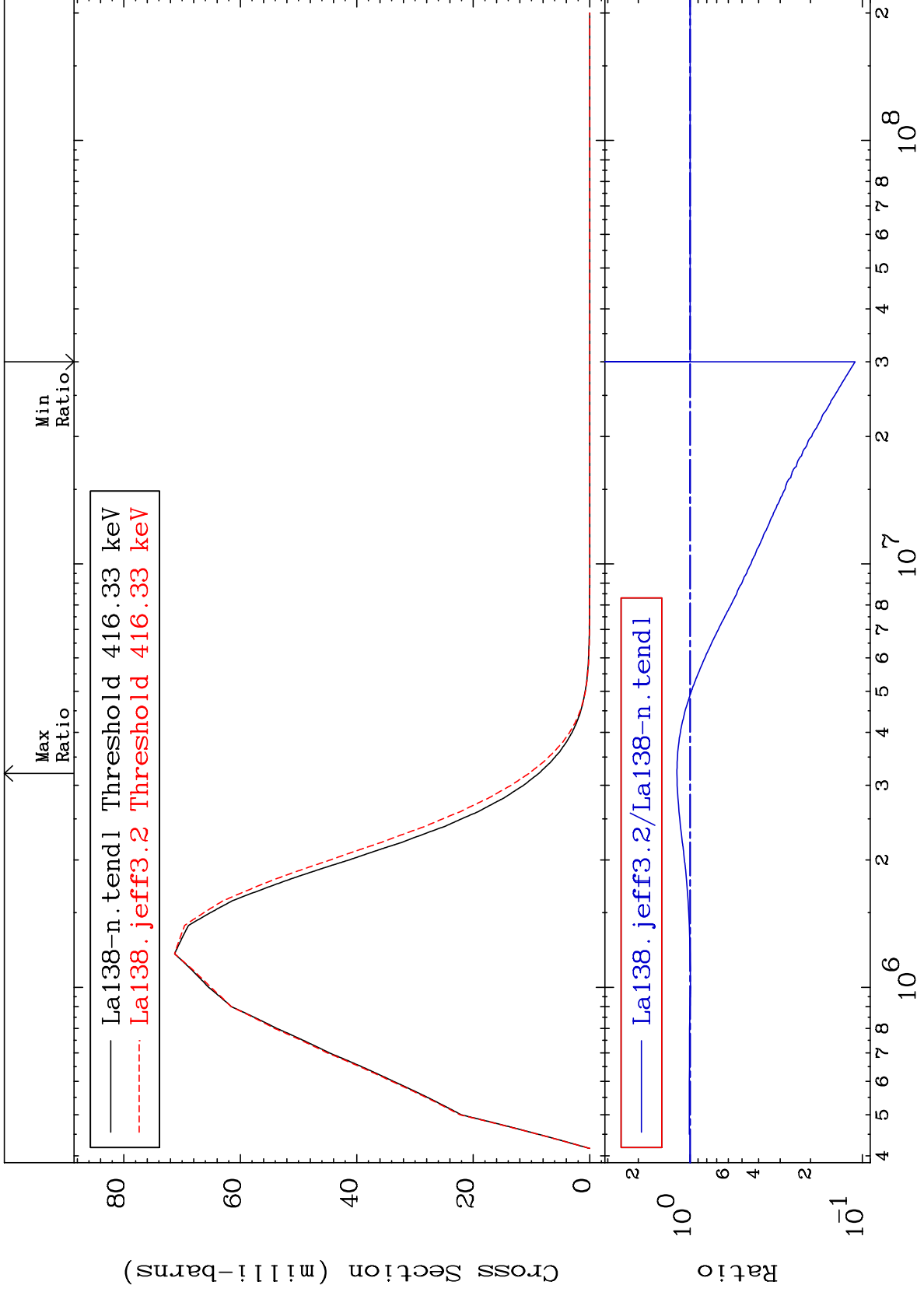
57-La-138
-89.01 To 21.74 %



MAT 5725

413.3 keV (n,n') Level
Cross Section

57-La-138
-88.98 To 19.22 %



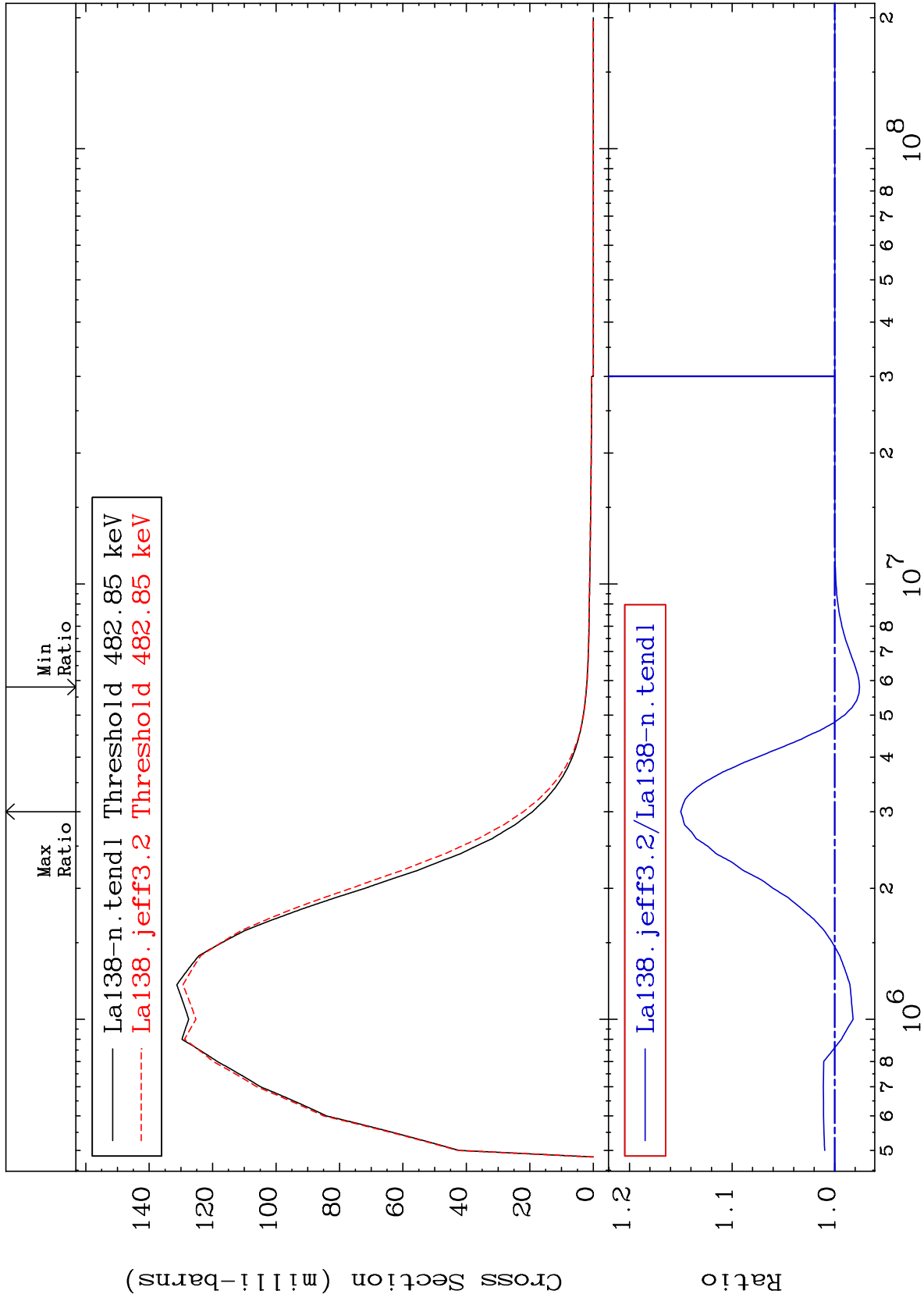
MAT 5725

479.3 keV (n,n') Level

57-La-138

-2.418 To 15.00 %

Cross Section



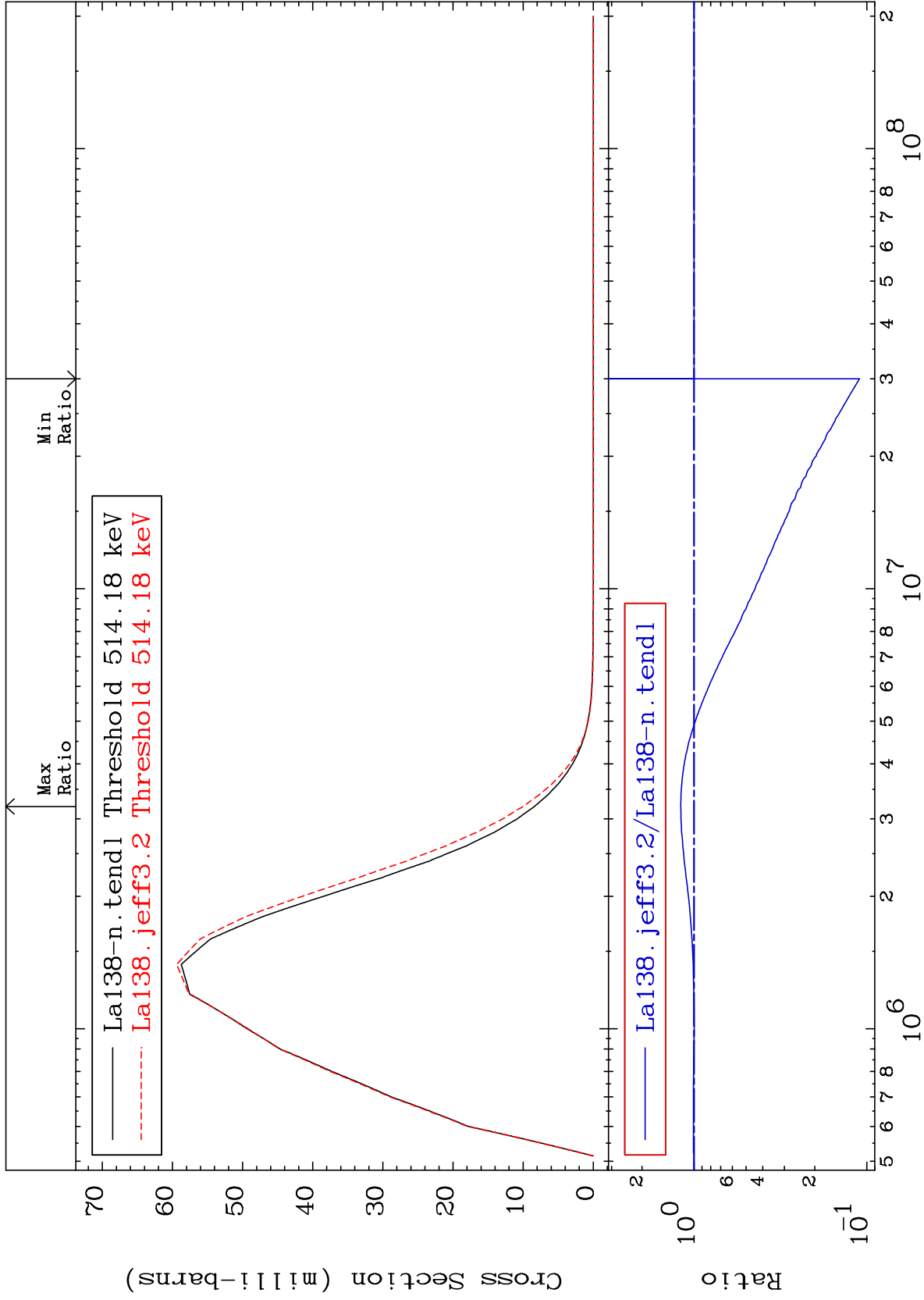
MAT 5725

510.4 keV (n,n') Level

57-La-138

-88.98 To 19.31 %

Cross Section



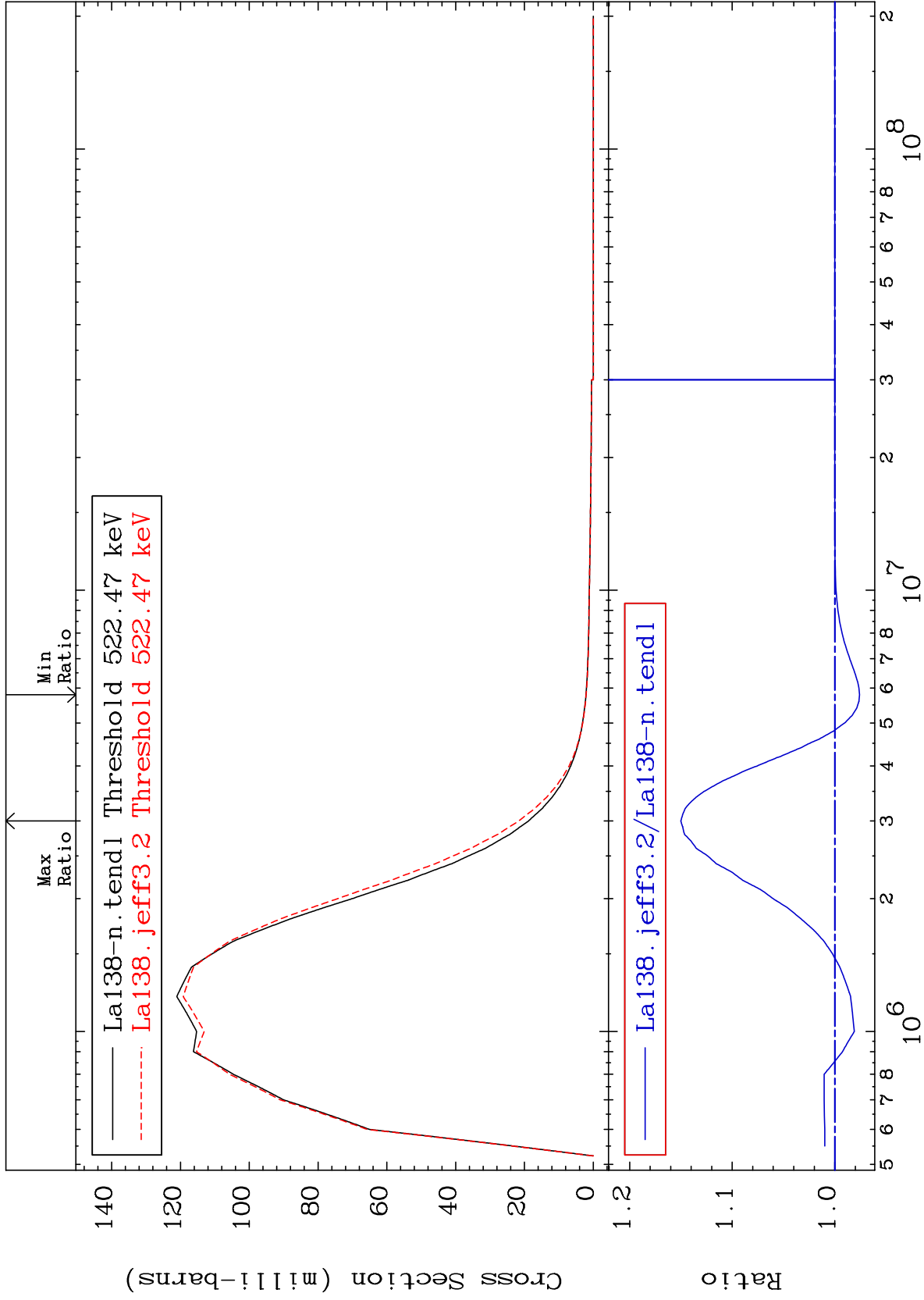
MAT 5725

518.7 keV (n,n') Level

57-La-138

-2.415 To 15.02 %

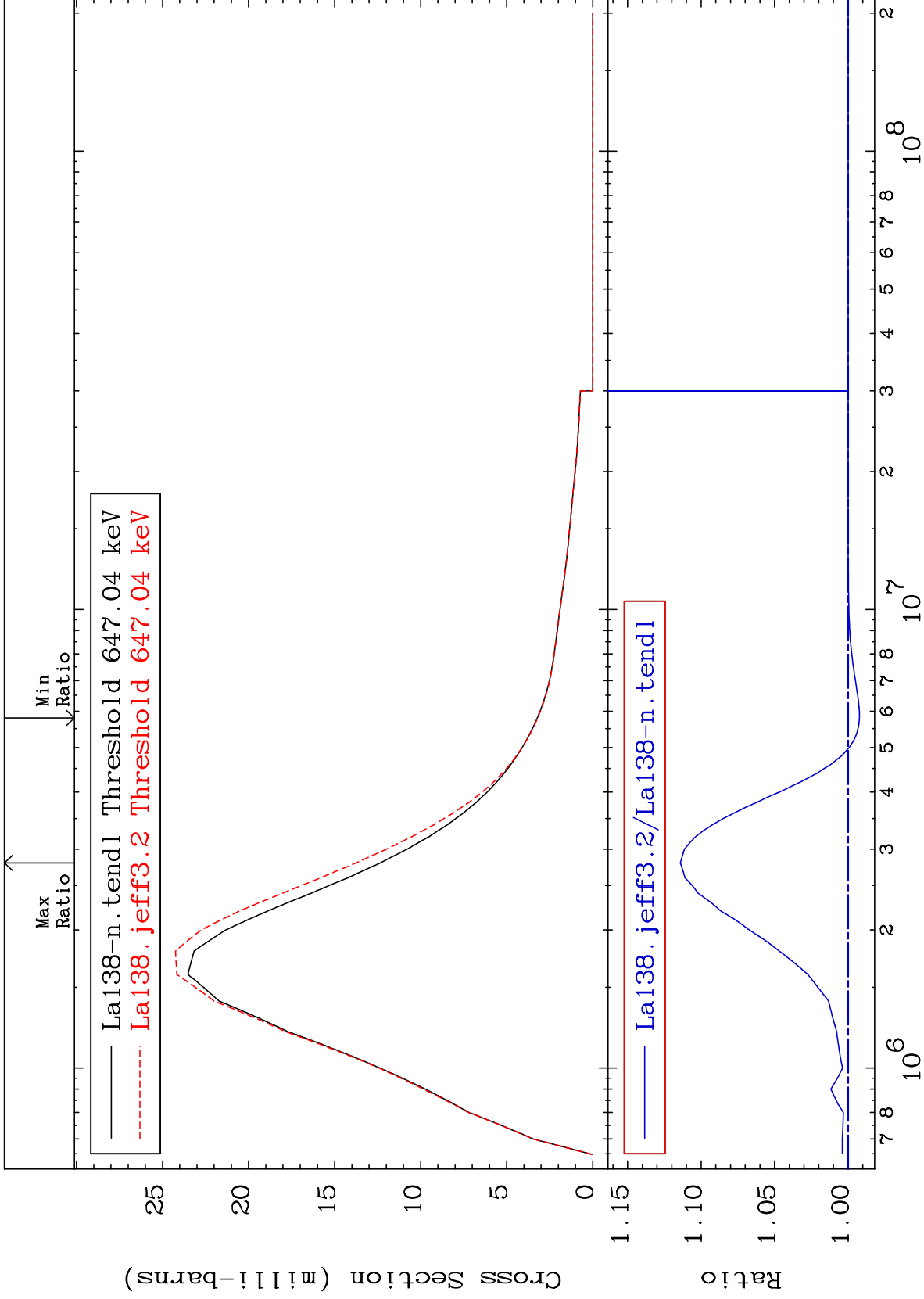
Cross Section



MAT 5725

642.3 keV (n,n') Level
Cross Section

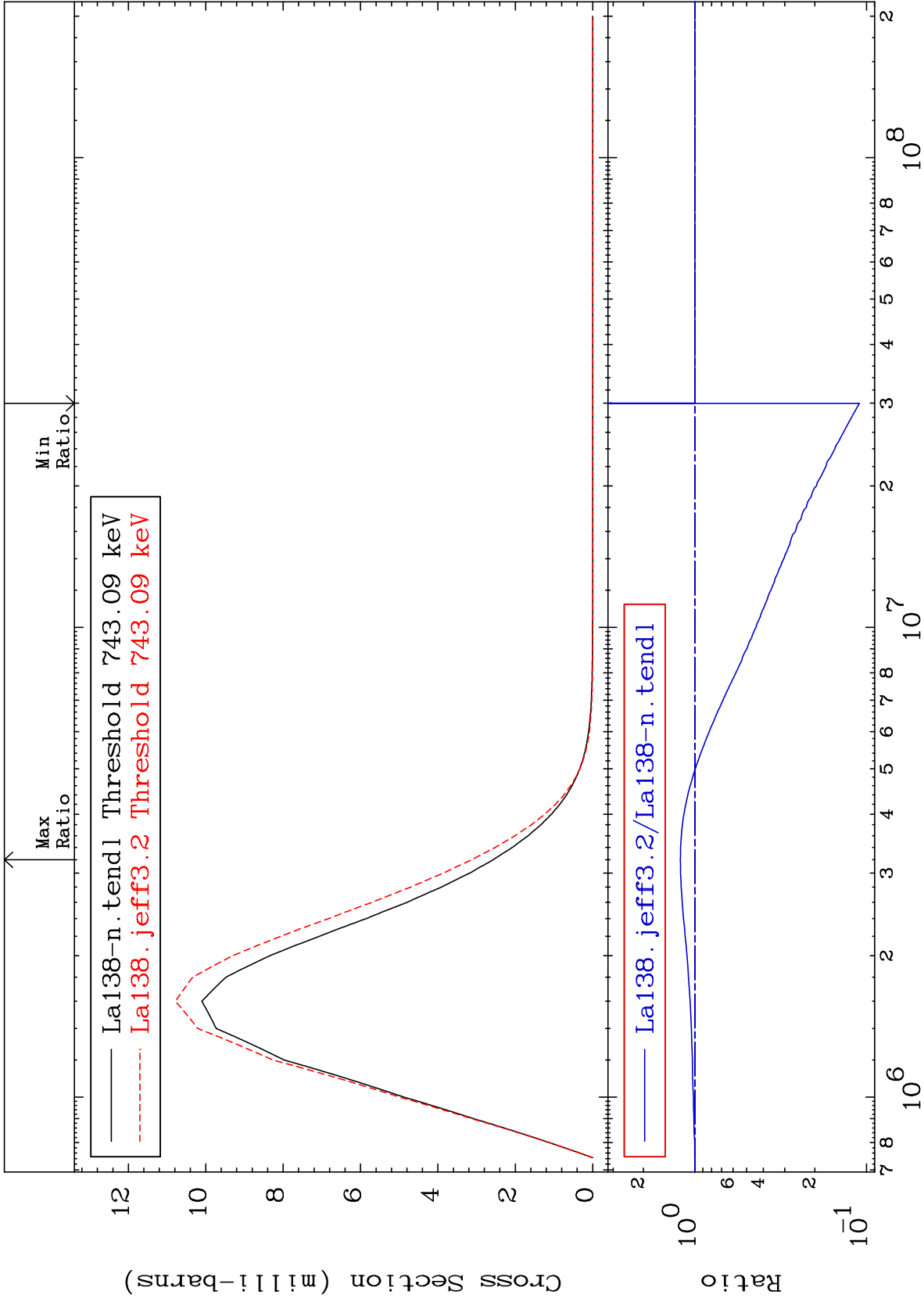
57-La-138
-0.767 To 11.41 %



30

Incident Energy (eV)

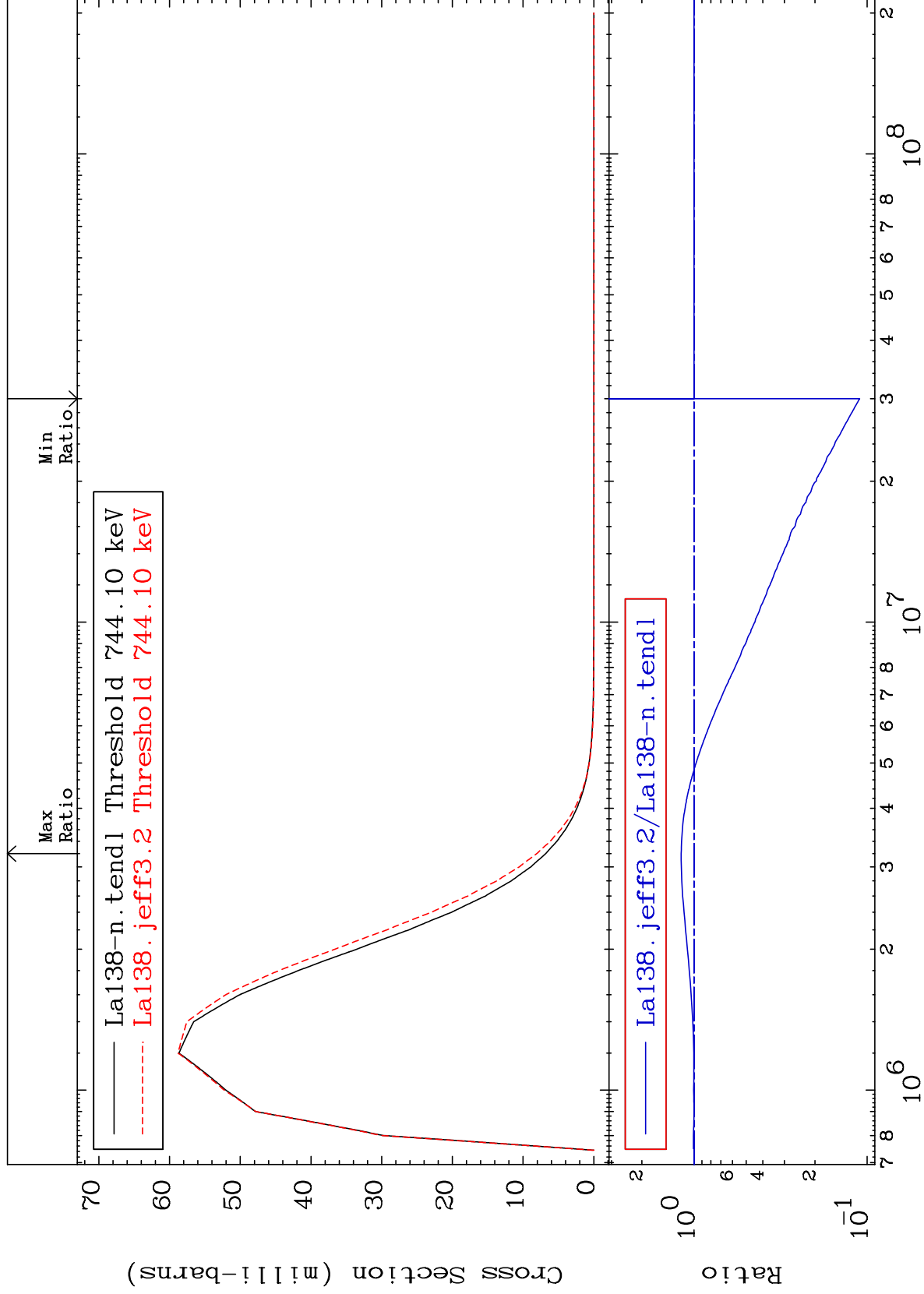
57-La-138



MAT 5725

738.7 keV (n,n') Level
Cross Section

57-La-138
-88.96 To 18.65 %



32

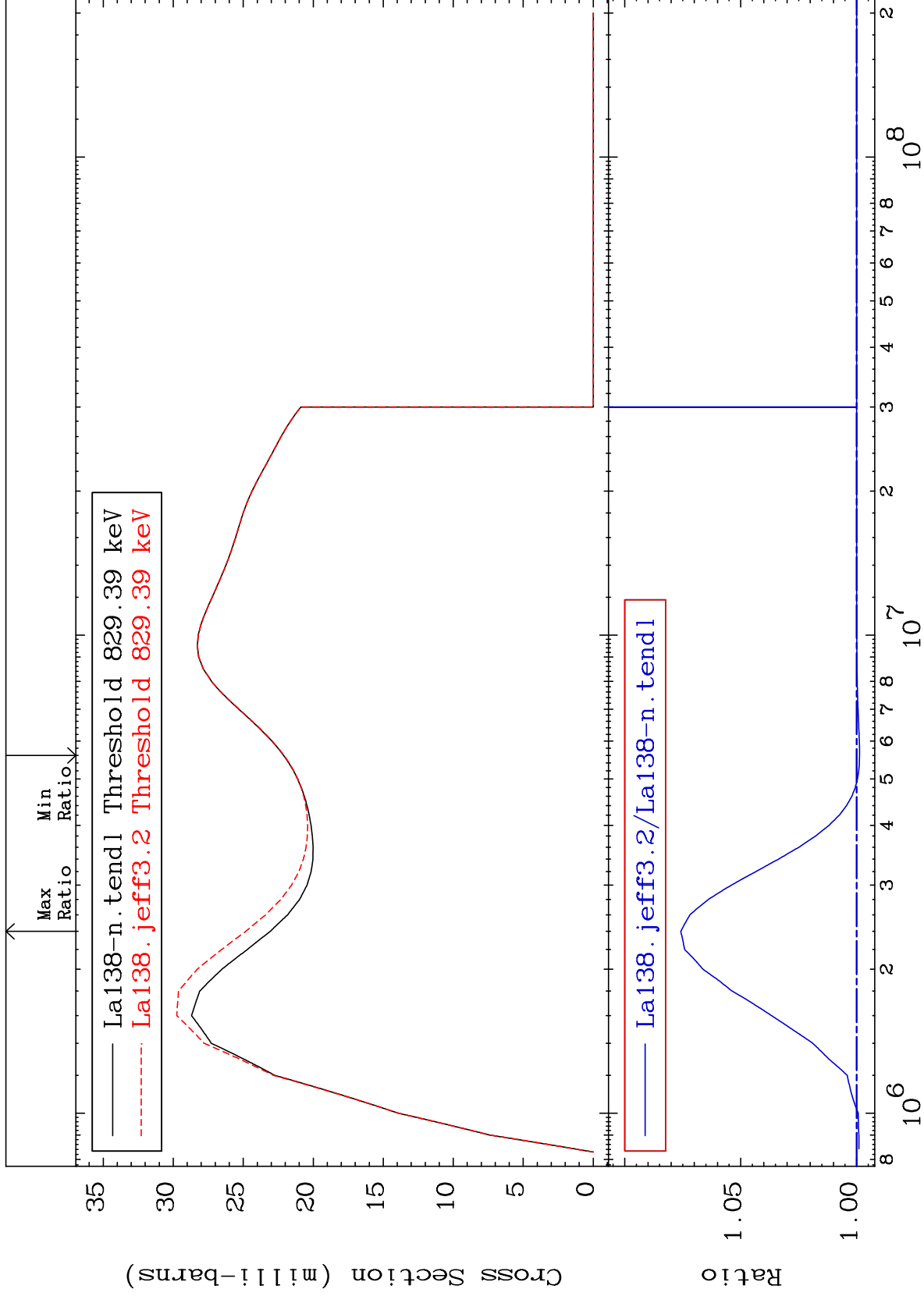
Incident Energy (eV)

57-La-138

MAT 5725

823.4 keV (n,n') Level
Cross Section

57-La-138
-0.126 To 7.584 %



33

Incident Energy (eV)

57-La-138

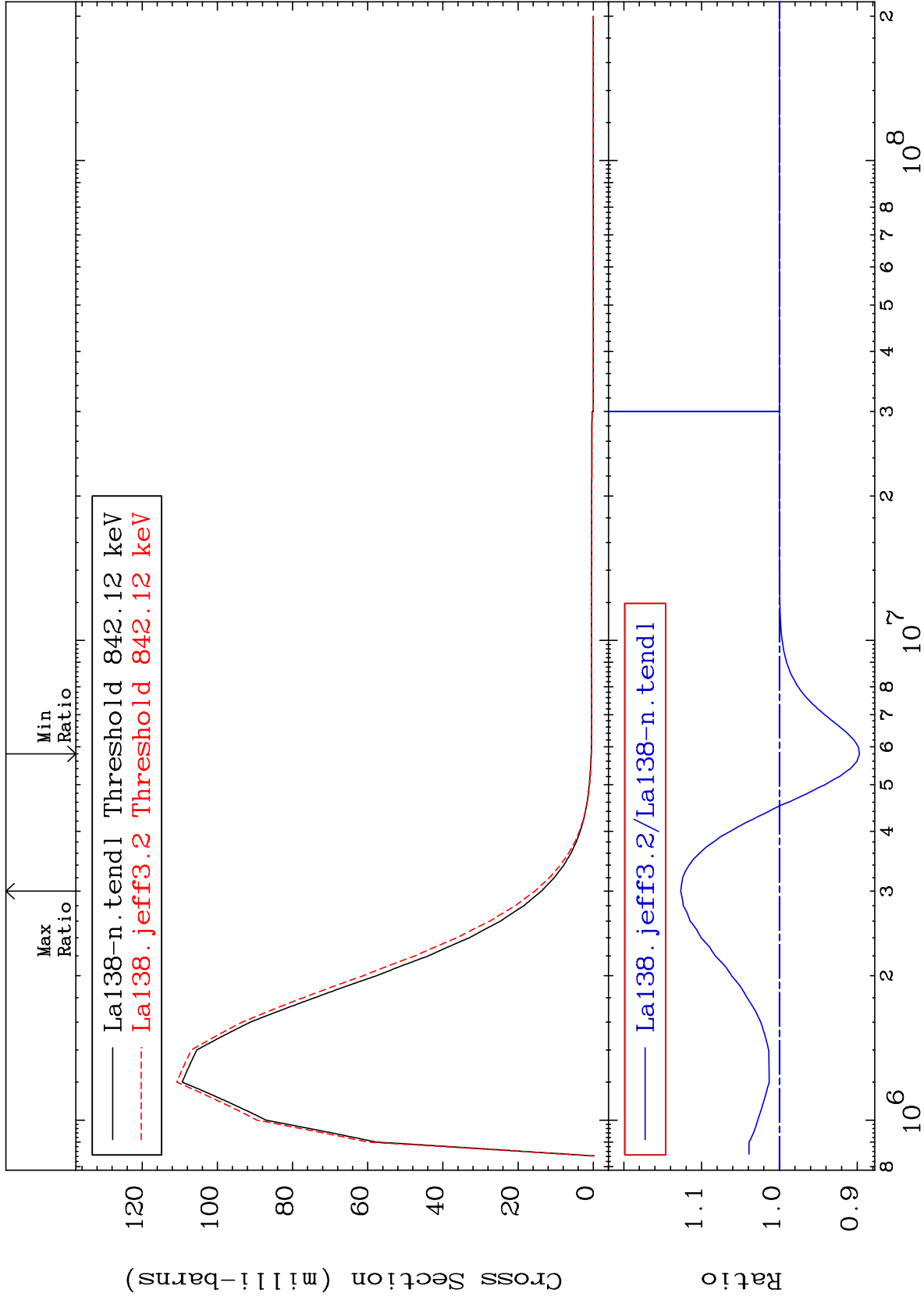
MAT 5725

836.0 keV (n,n') Level

57-La-138

Cross Section

-10.30 To 12.68 %



34

Incident Energy (eV)

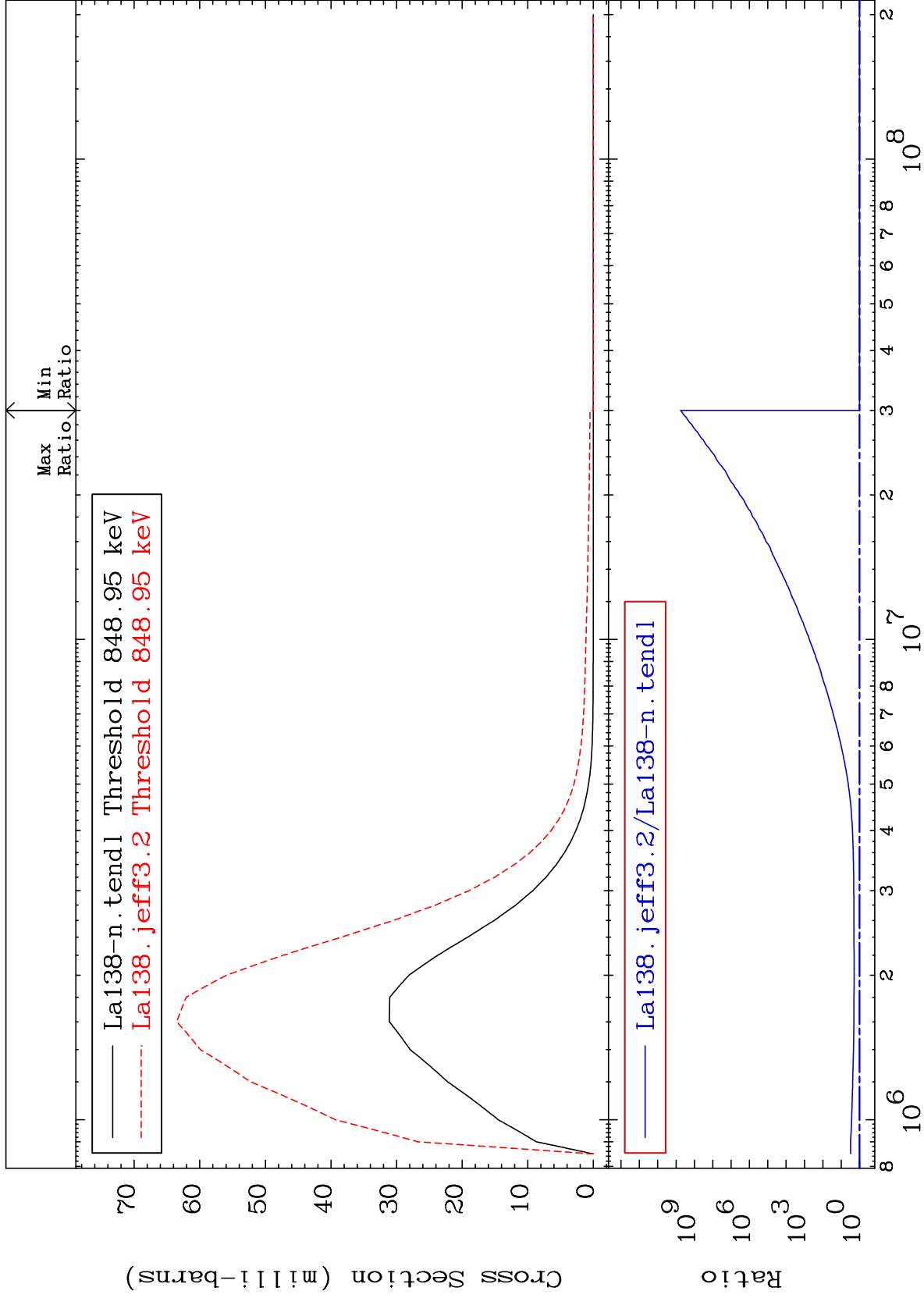
57-La-138

MAT 5725

842.8 keV (n,n') Level

57-La-138

0.000 To 9999. %



35

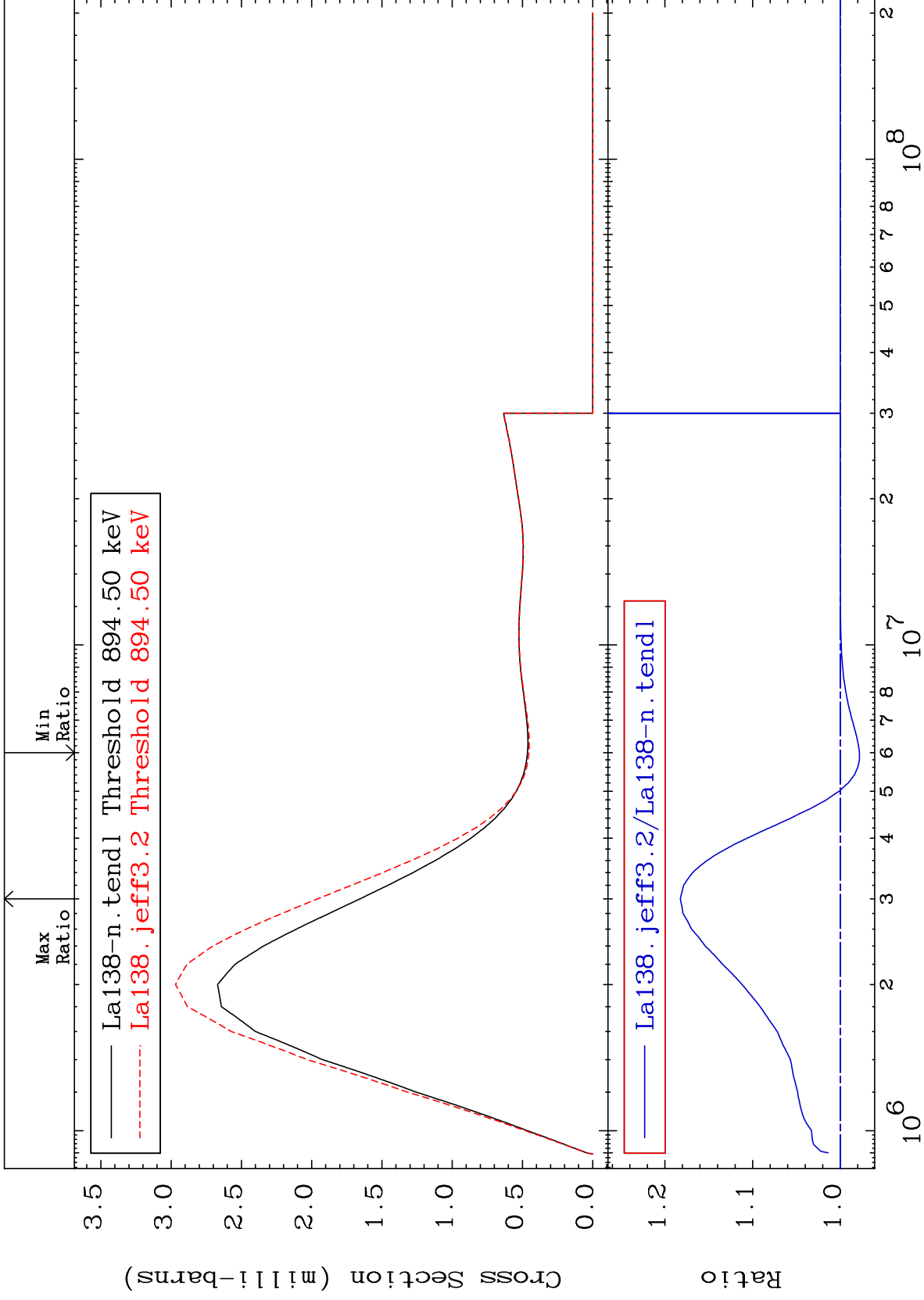
Incident Energy (eV)

57-La-138

MAT 5725

888.0 keV (n,n') Level
Cross Section

57-La-138
-2.179 To 18.24 %



36

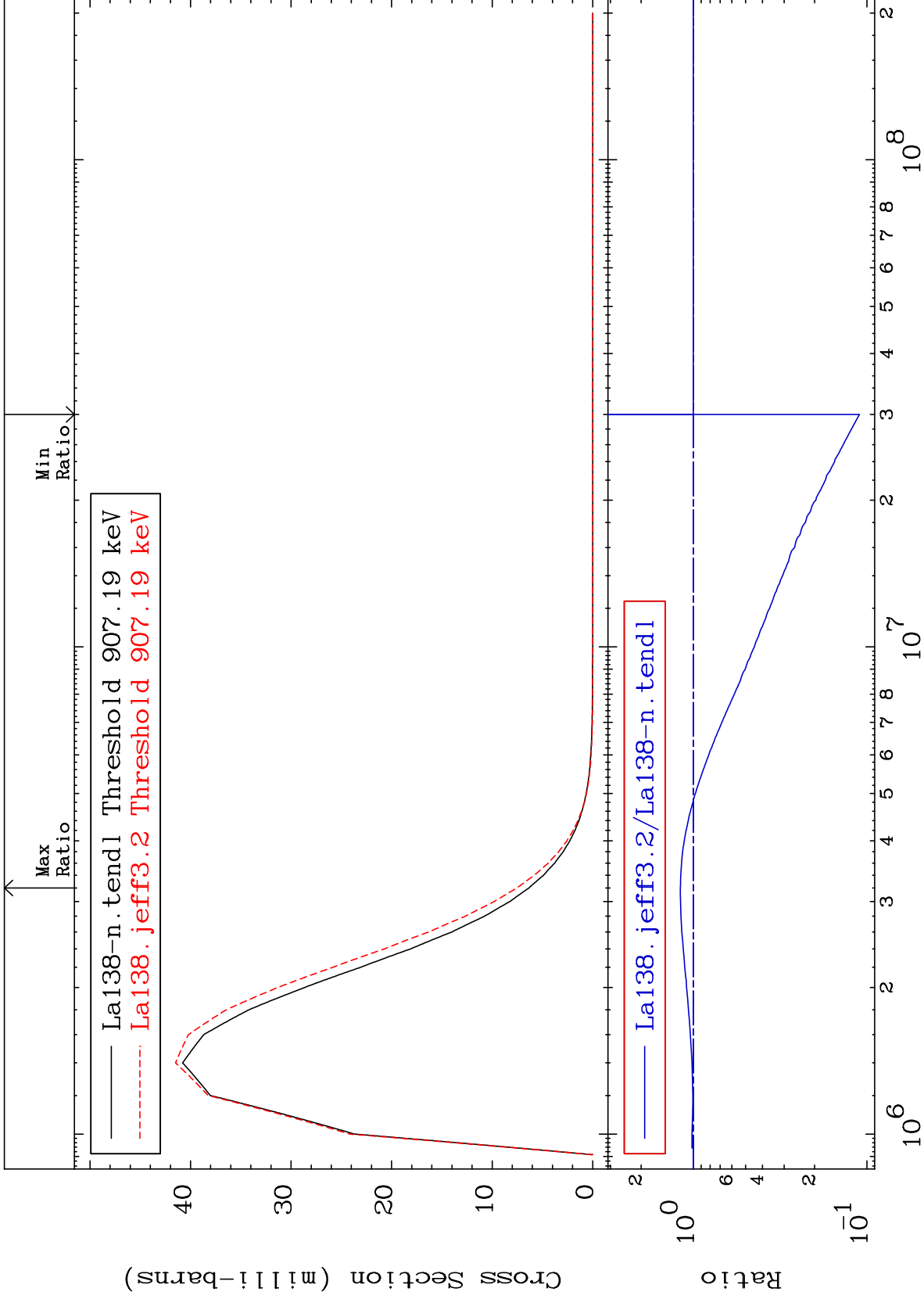
Incident Energy (eV)

57-La-138

MAT 5725

900.6 keV (n,n') Level
Cross Section

57-La-138
-88.96 To 18.77 %



37

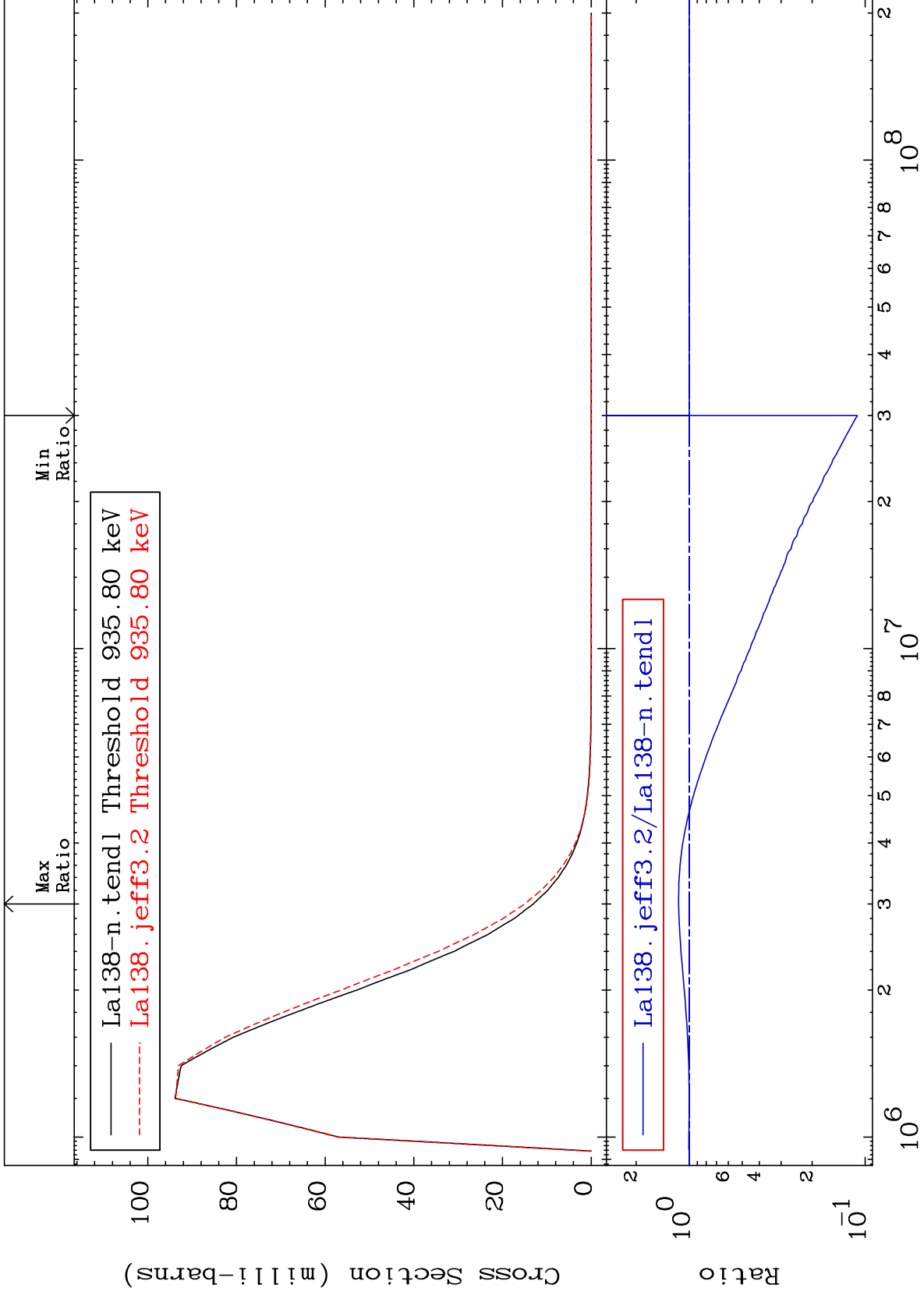
Incident Energy (eV)

57-La-138

MAT 5725

929.0 keV (n,n') Level
Cross Section

57-La-138
-88.90 To 14.82 %



38

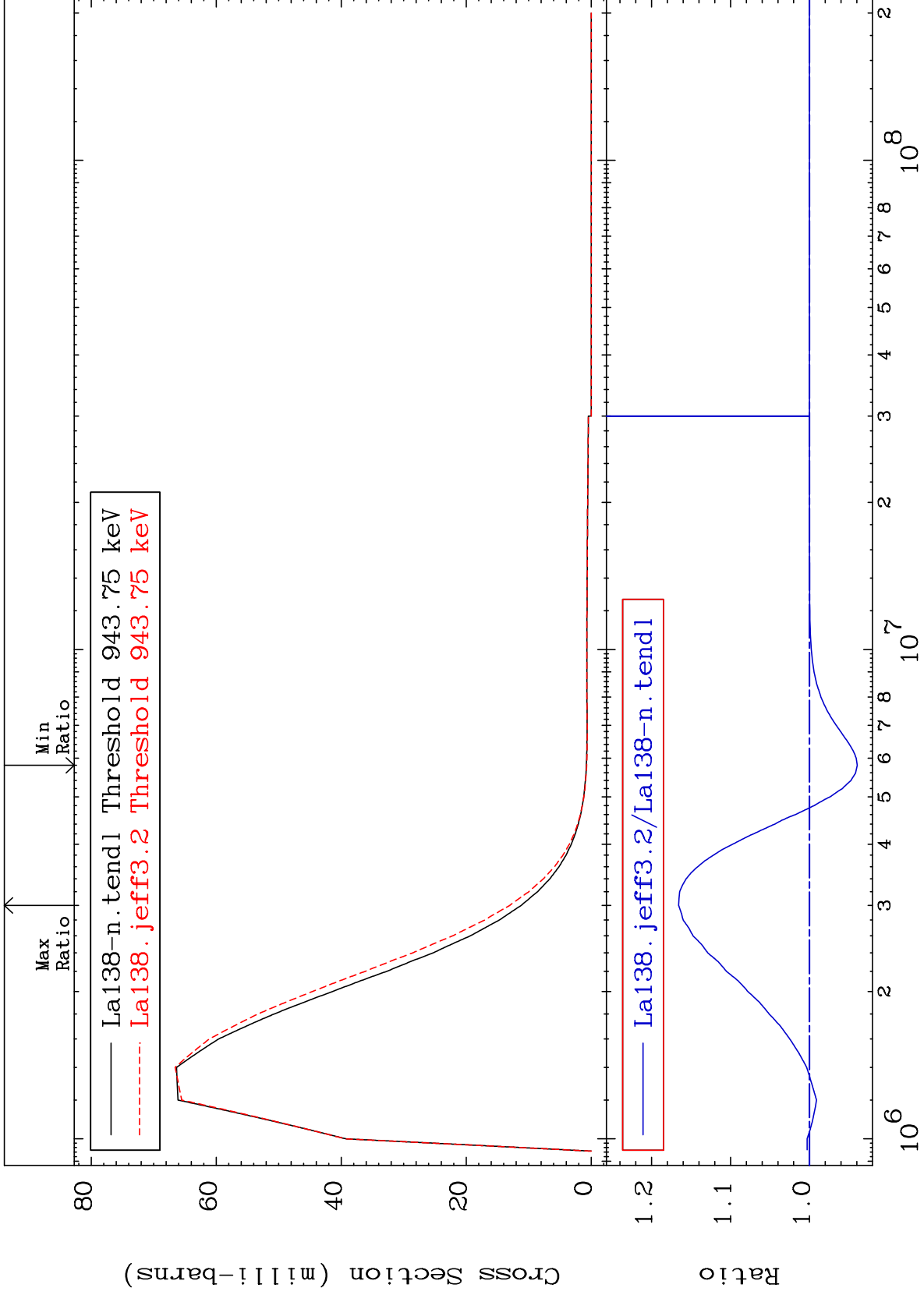
Incident Energy (eV)

57-La-138

MAT 5725

936.9 keV (n,n') Level
Cross Section

57-La-138
-6.047 To 16.57 %



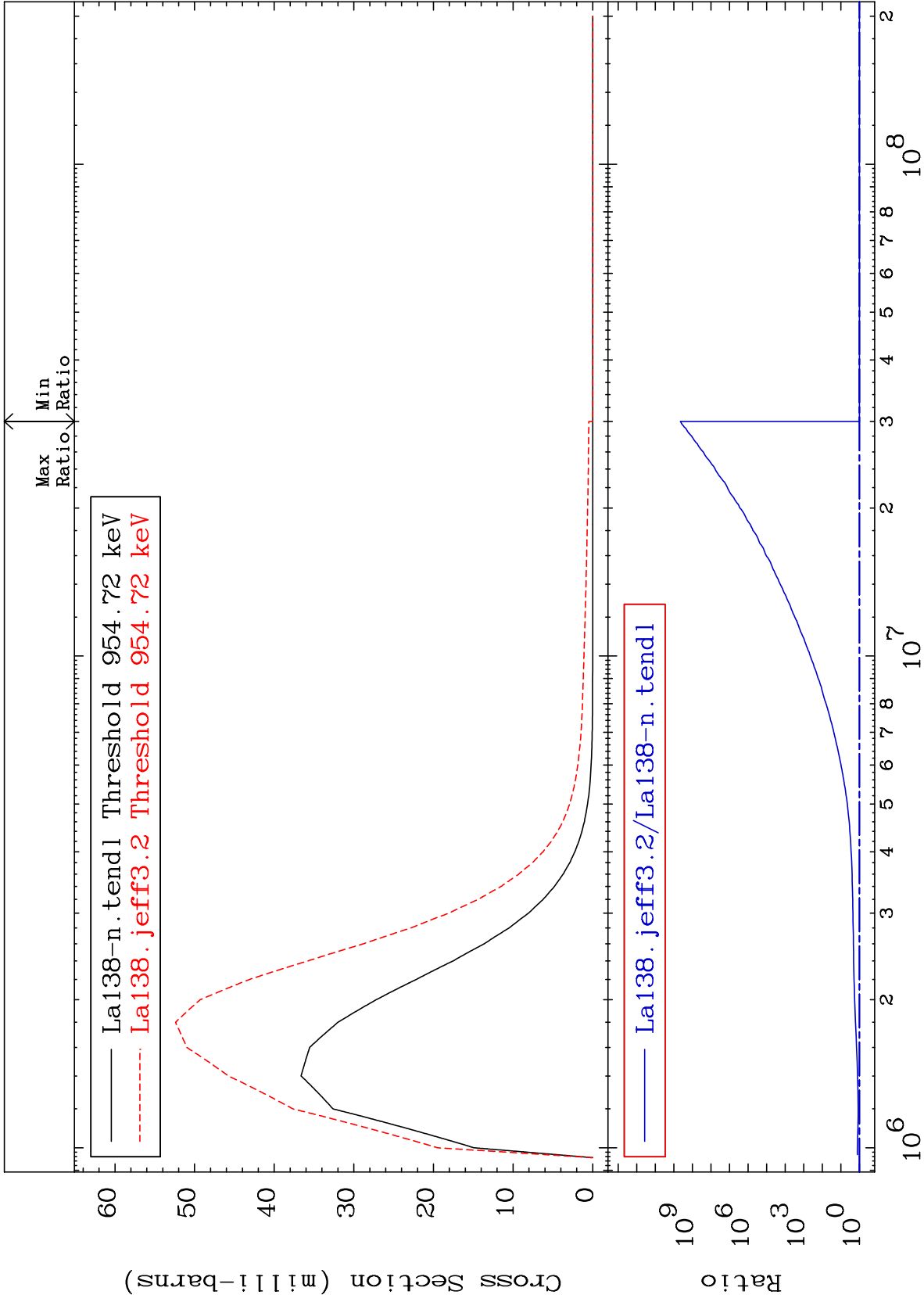
39

57-La-138

MAT 5725

947.8 keV (n,n') Level
Cross Section

57-La-138
0.000 To 9999. %



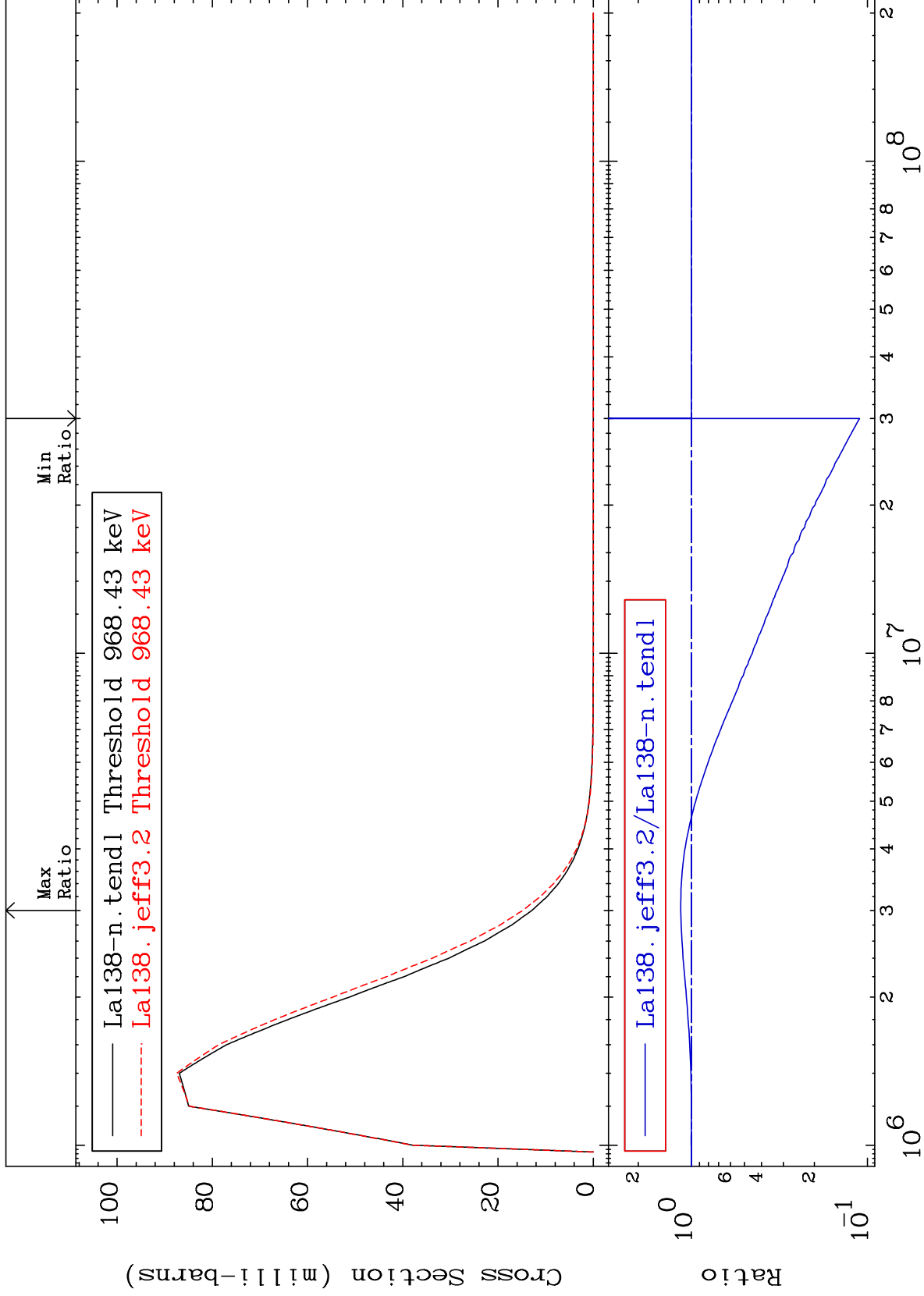
Incident Energy (eV)

57-La-138

MAT 5725

961.4 keV (n,n') Level
Cross Section

57-La-138
-88.90 To 14.83 %



41

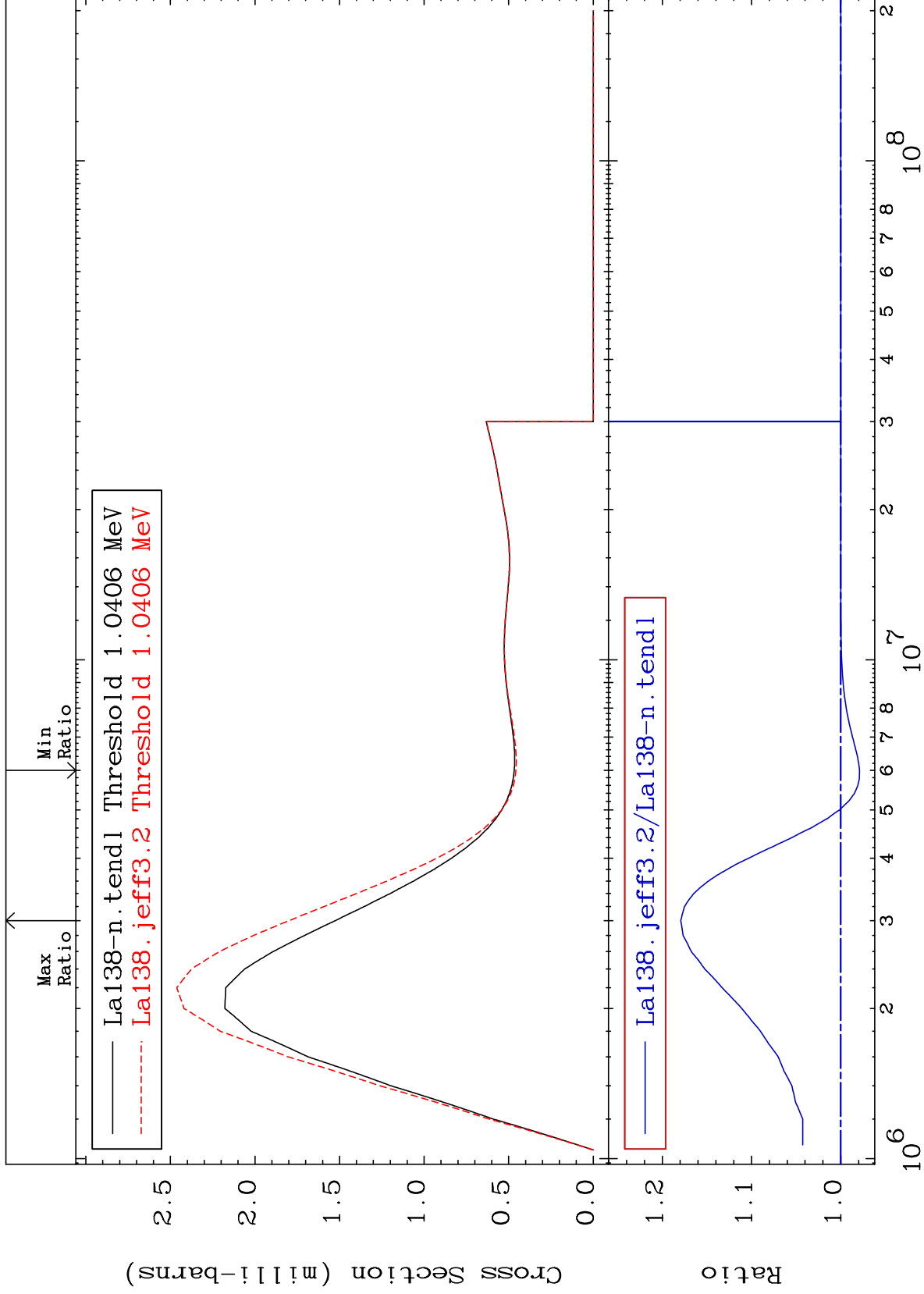
Incident Energy (eV)

57-La-138

MAT 5725

1.033 MeV (n,n') Level
Cross Section

57-La-138
-2.103 To 17.93 %



42

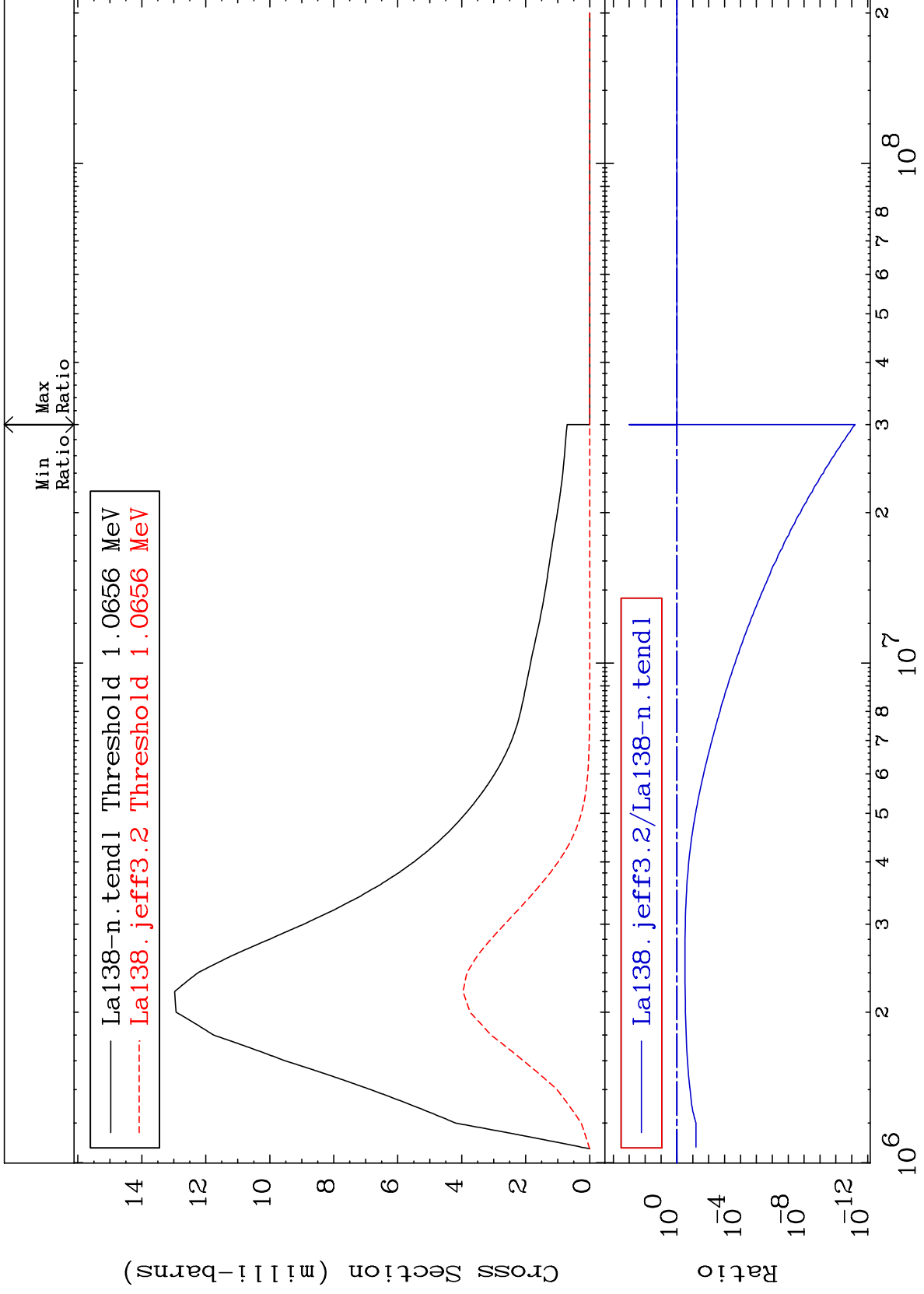
Incident Energy (eV)

57-La-138

MAT 5725

1.058 MeV (n,n') Level
Cross Section

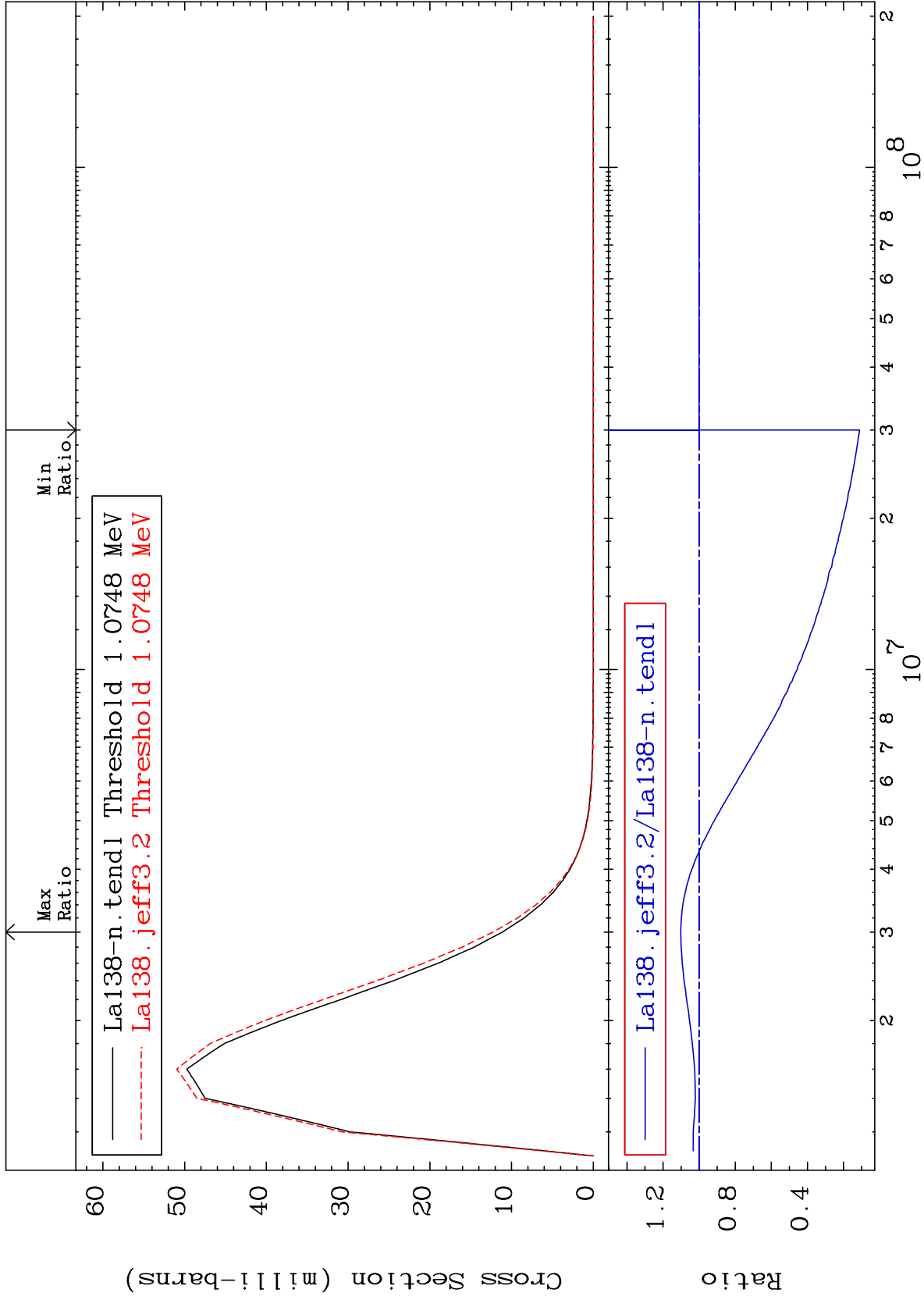
57-La-138
-100.0 To 0.000 %



43

Incident Energy (eV)

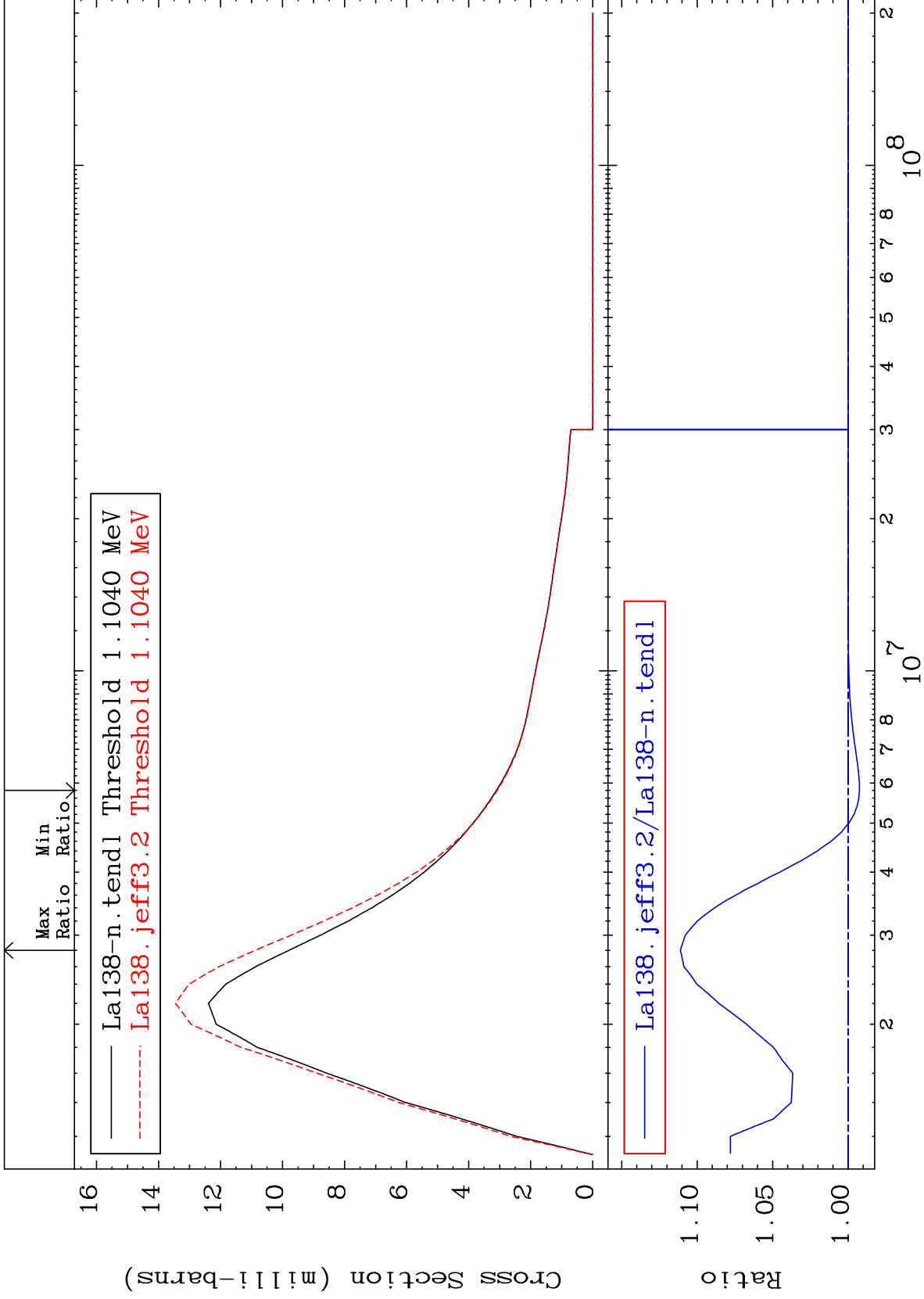
57-La-138

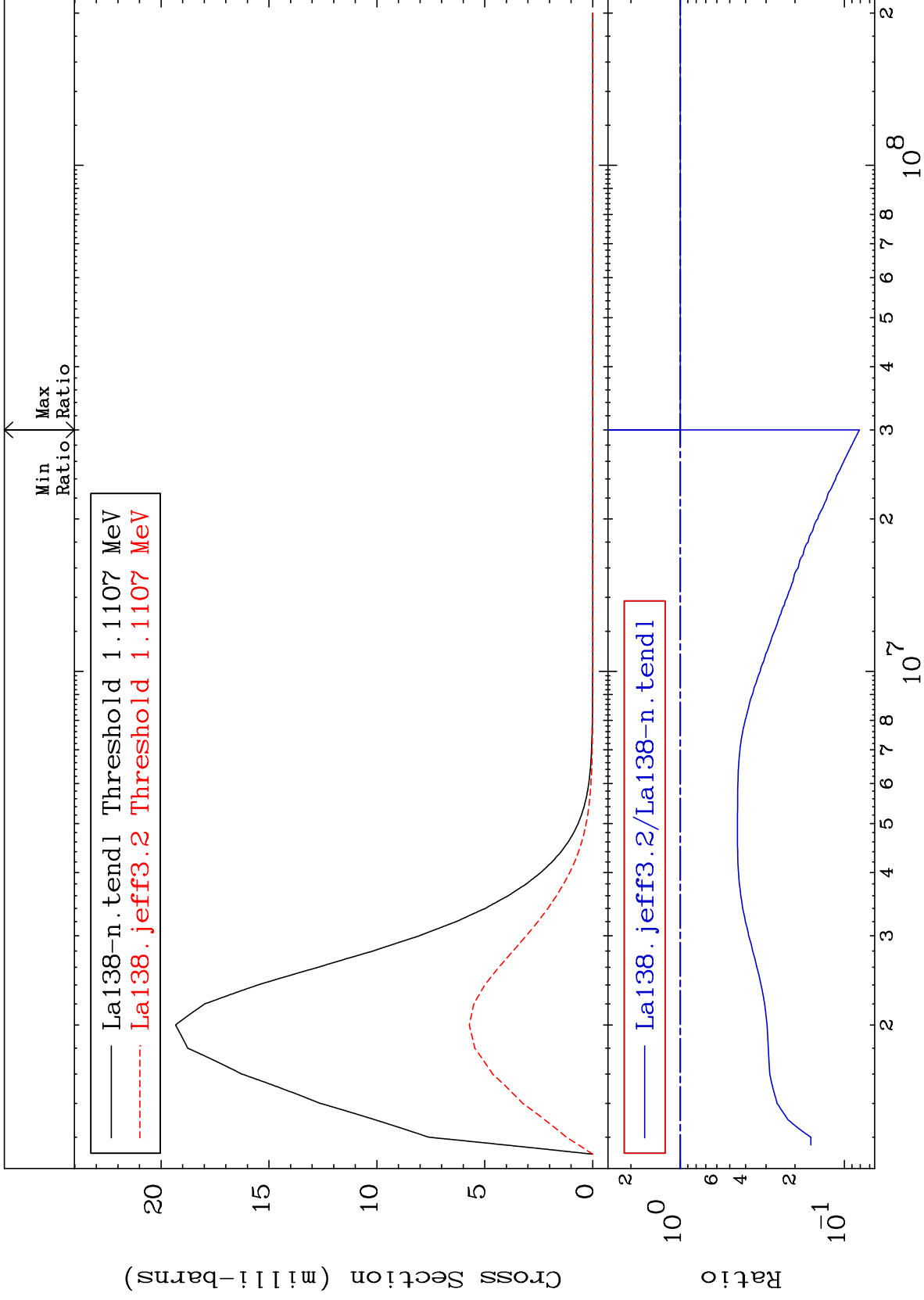


MAT 5725

1.096 MeV (n,n') Level
Cross Section

57-La-138
-0.749 To 11.11 %

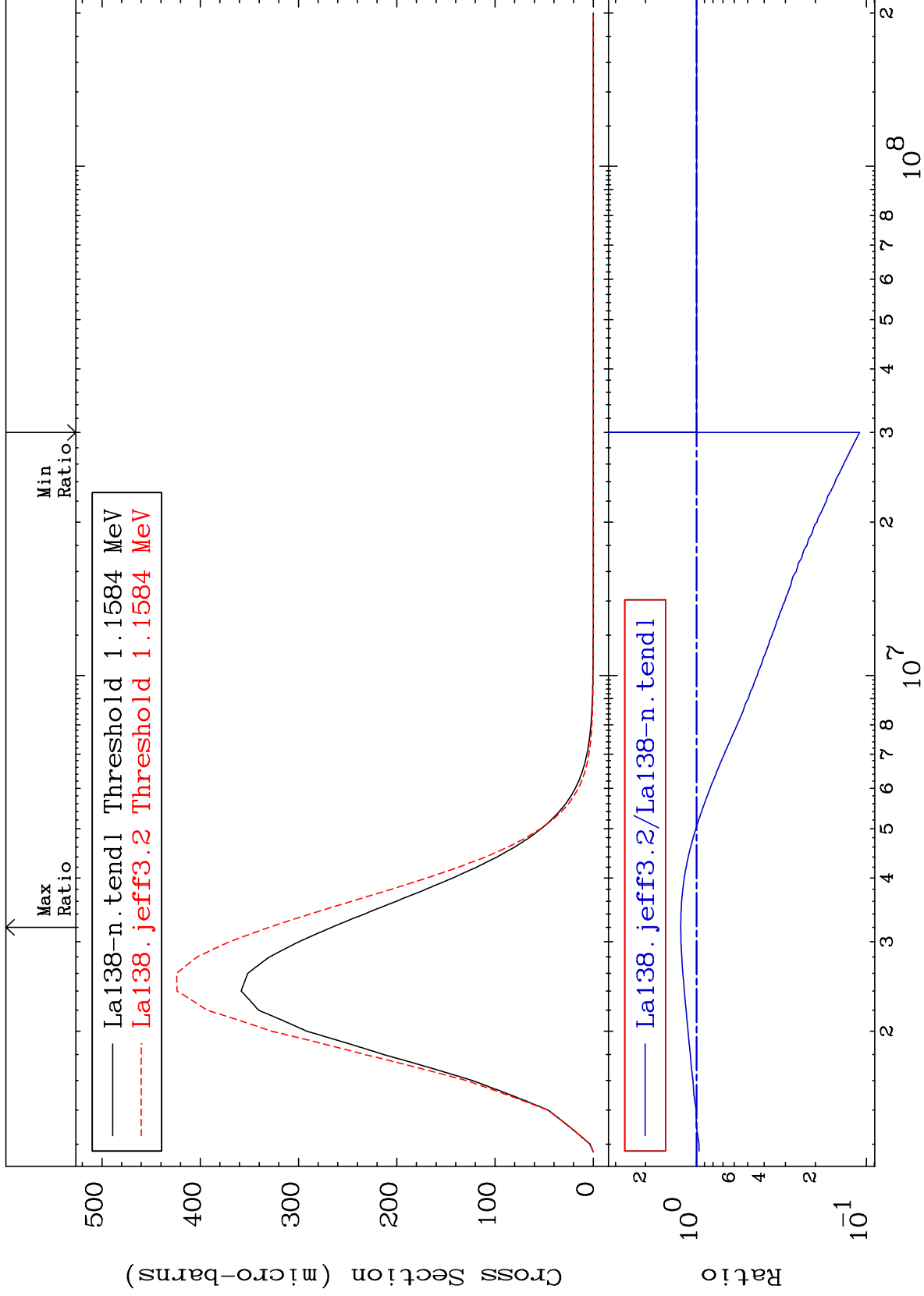


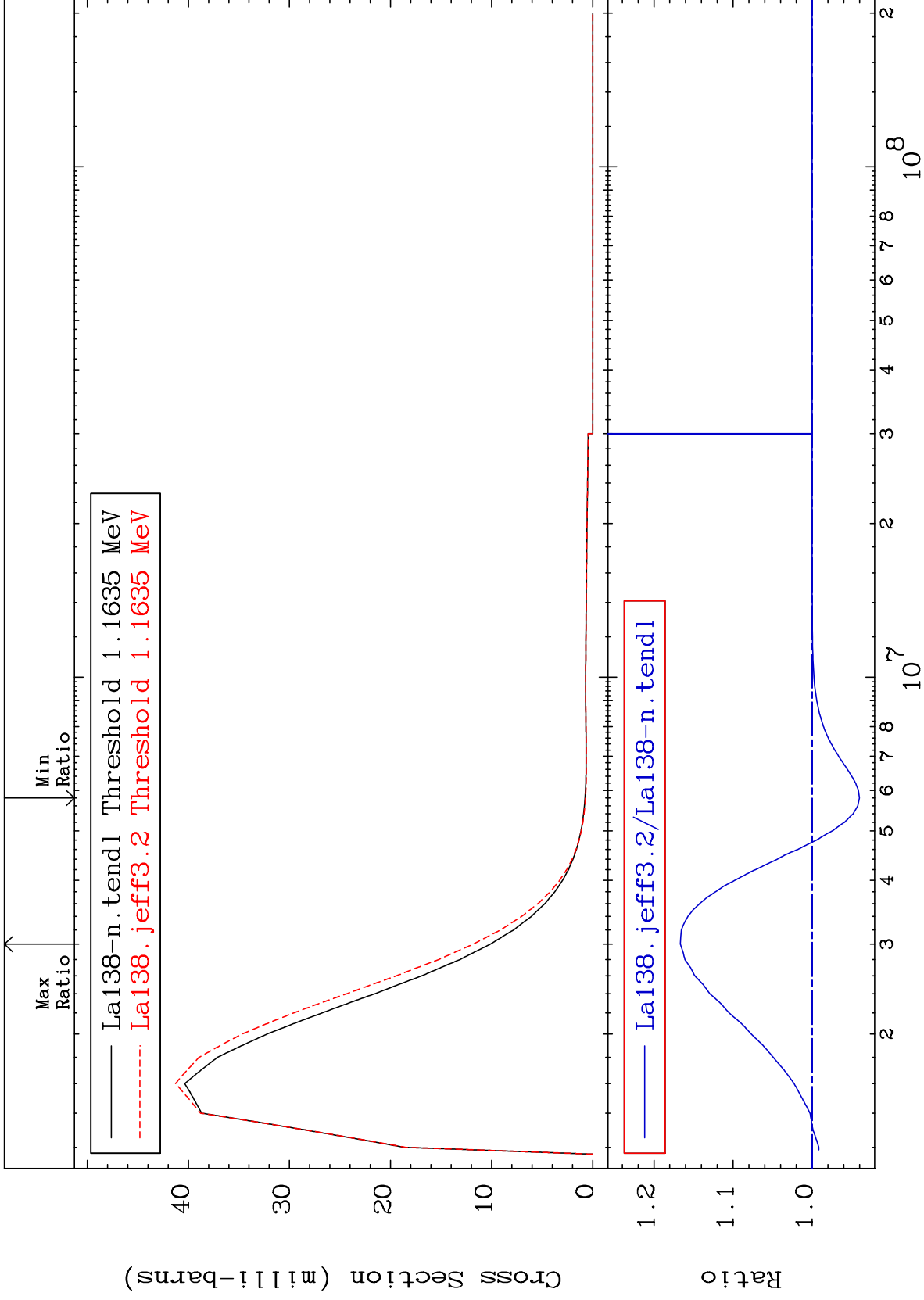


MAT 5725

1.150 MeV (n,n') Level
Cross Section

57-La-138
-89.02 To 23.95 %

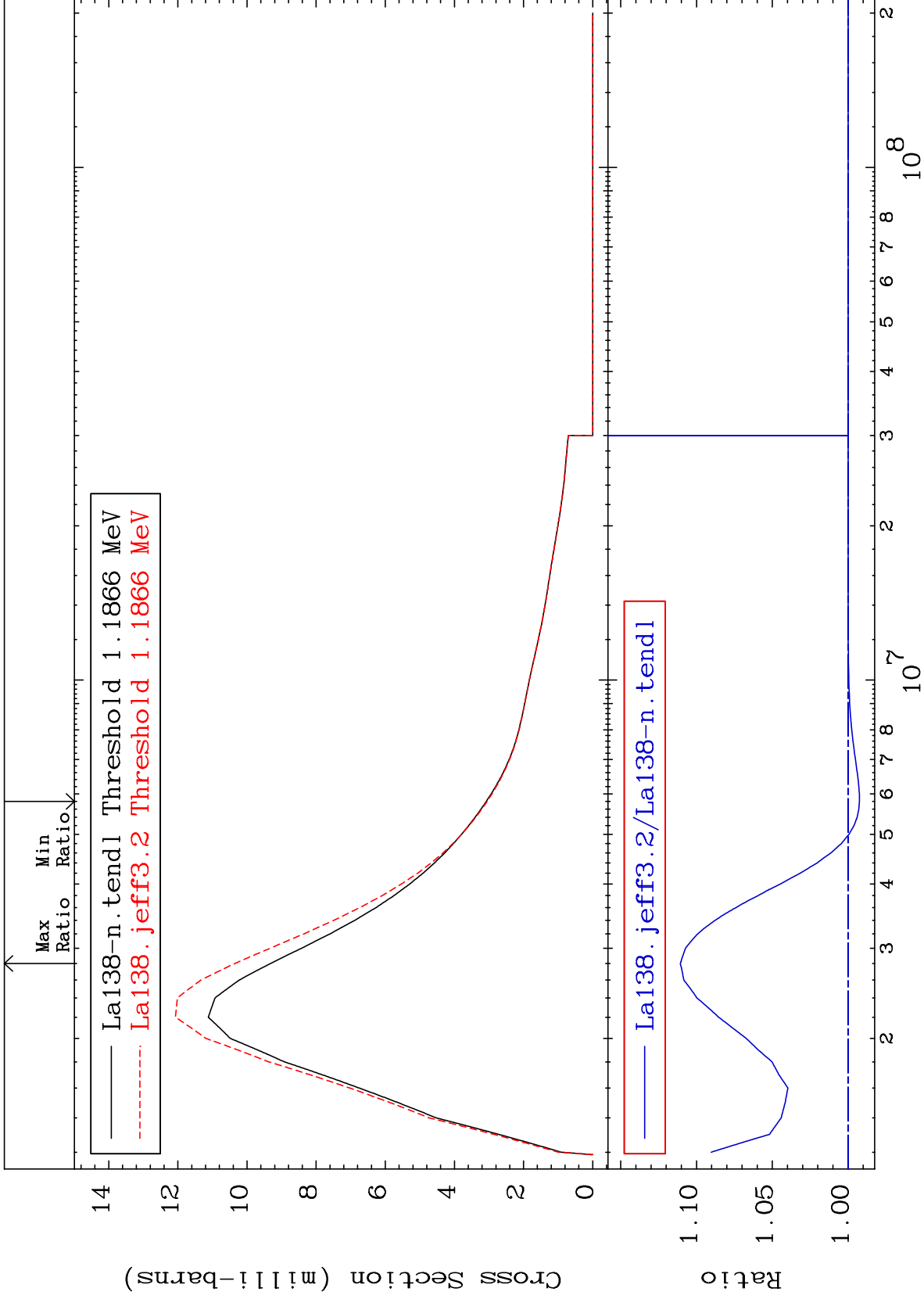


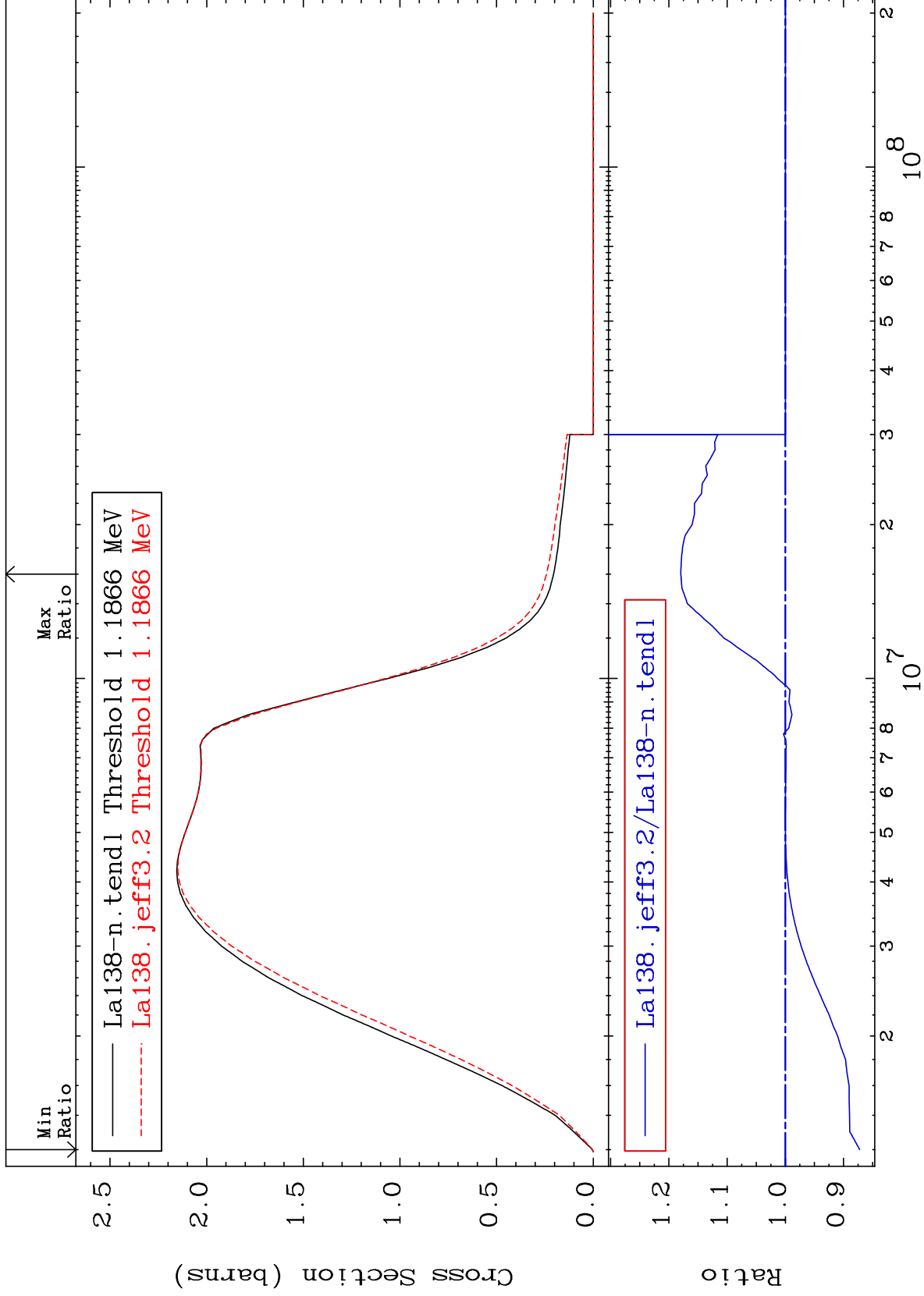


MAT 5725

1.178 MeV (n,n') Level
Cross Section

57-La-138
-0.747 To 11.07 %

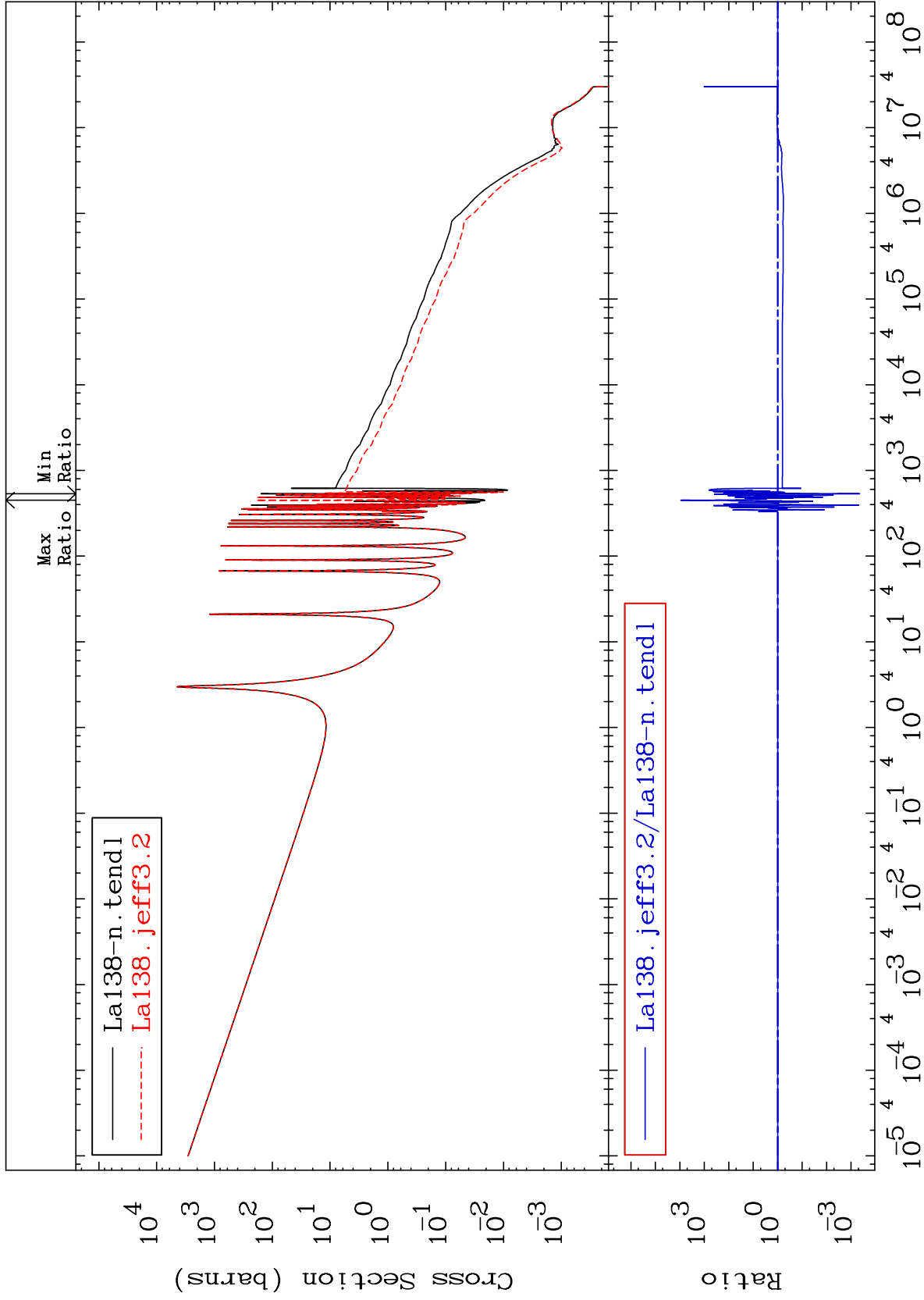




MAT 5725

(n, γ)
Cross Section

57-La-138
-99.95 To 9999. %



51

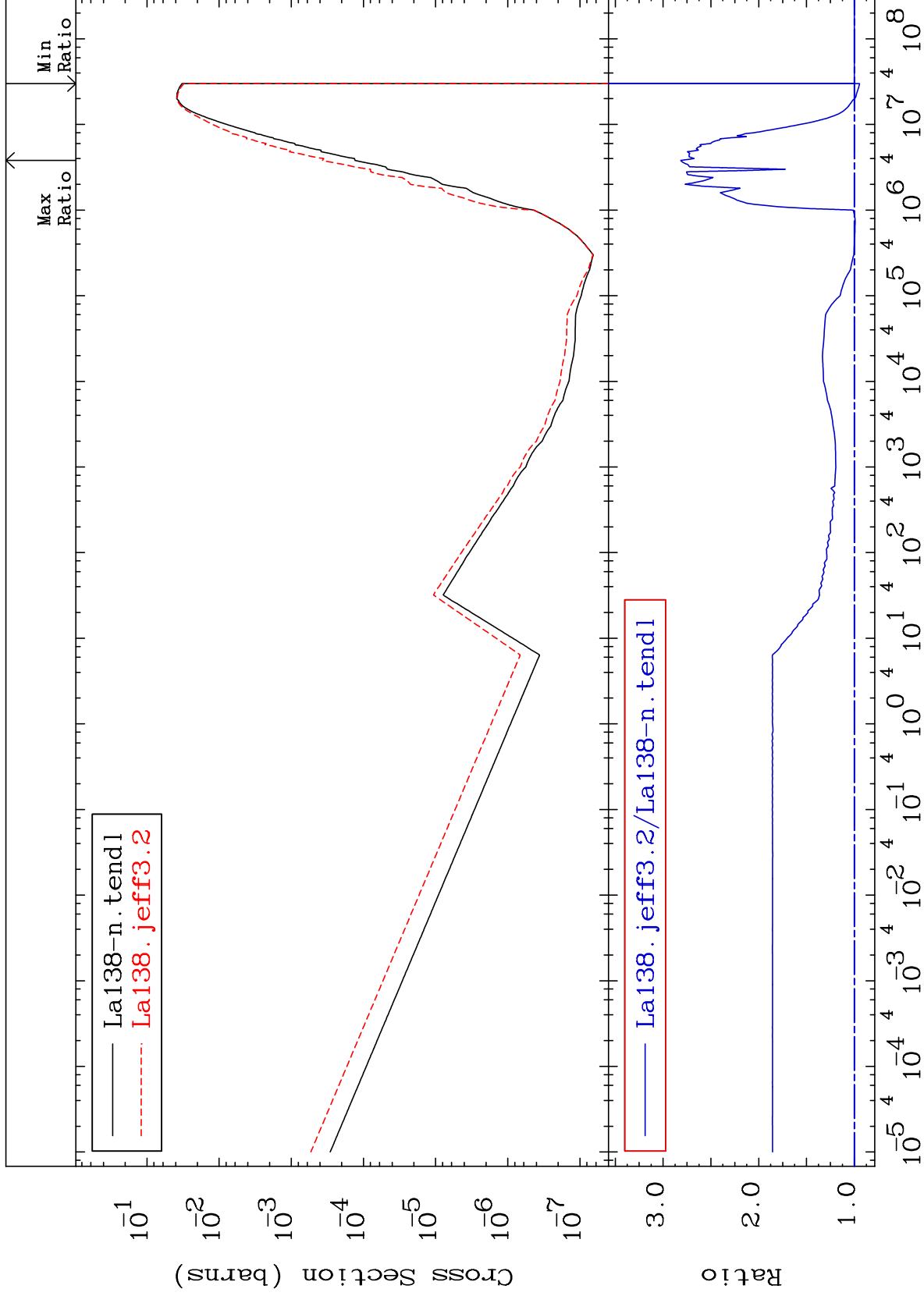
Incident Energy (eV)

57-La-138

MAT 5725

(n,p)
Cross Section

57-La-138
-5.416 To 181.5 %



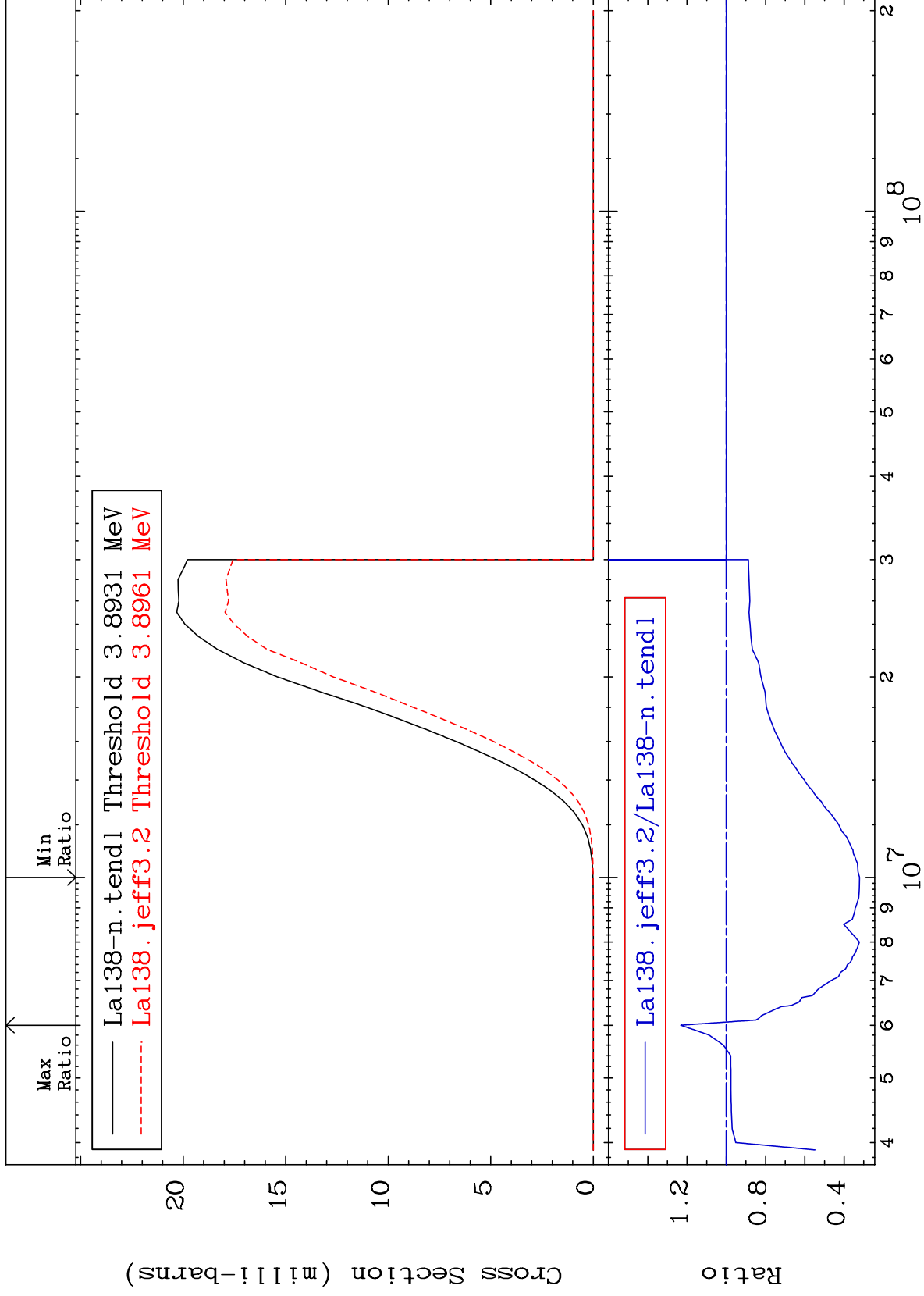
MAT 5725

(n, d)

57-La-138

Cross Section

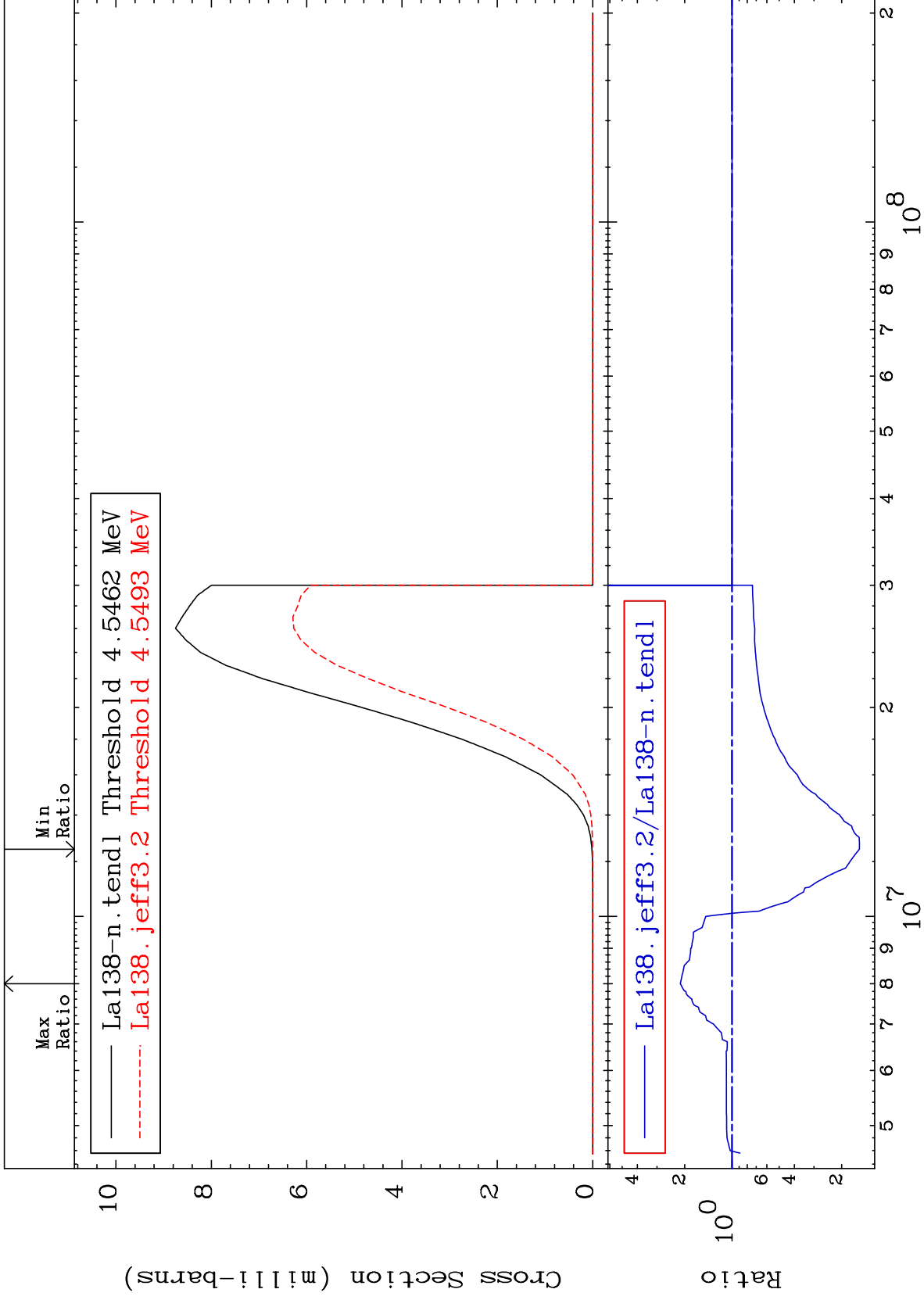
-67.87 To 23.21 %



53

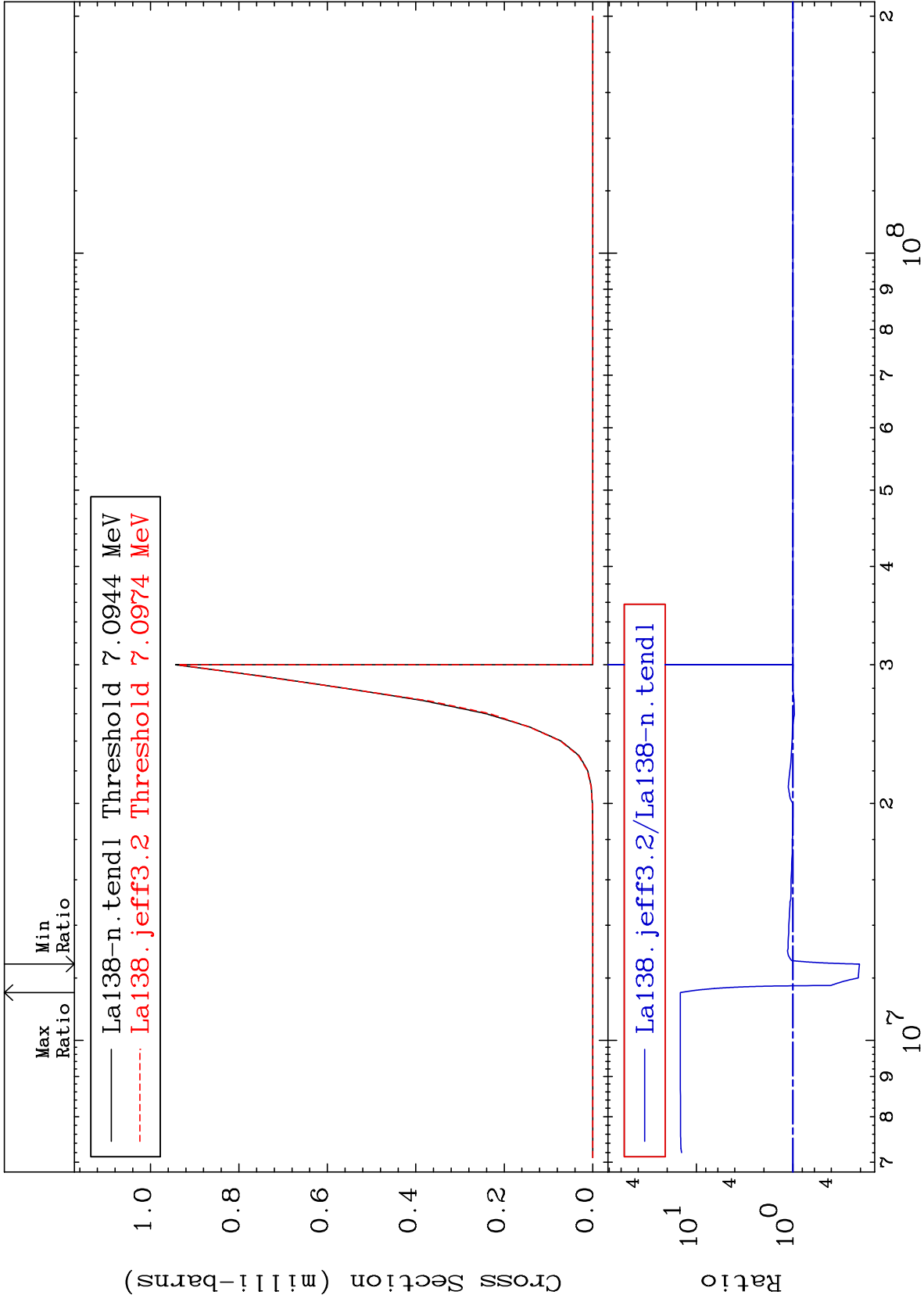
Incident Energy (eV)

57-La-138



Cross Section

-79.52 To 1364. %



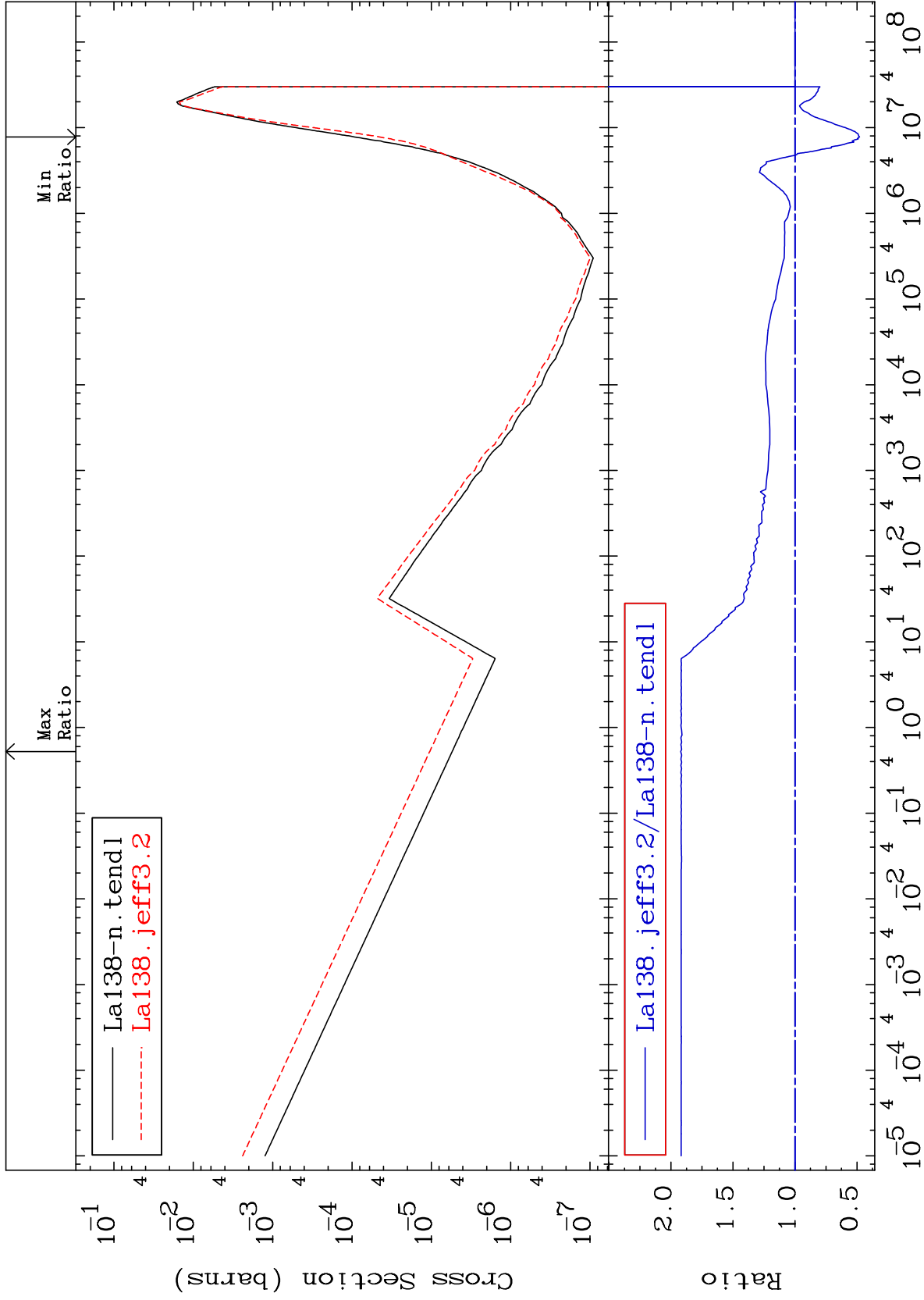
MAT 5725

(n, α)

57-La-138

Cross Section

-52.10 To 92.09 %



56

Incident Energy (eV)

57-La-138

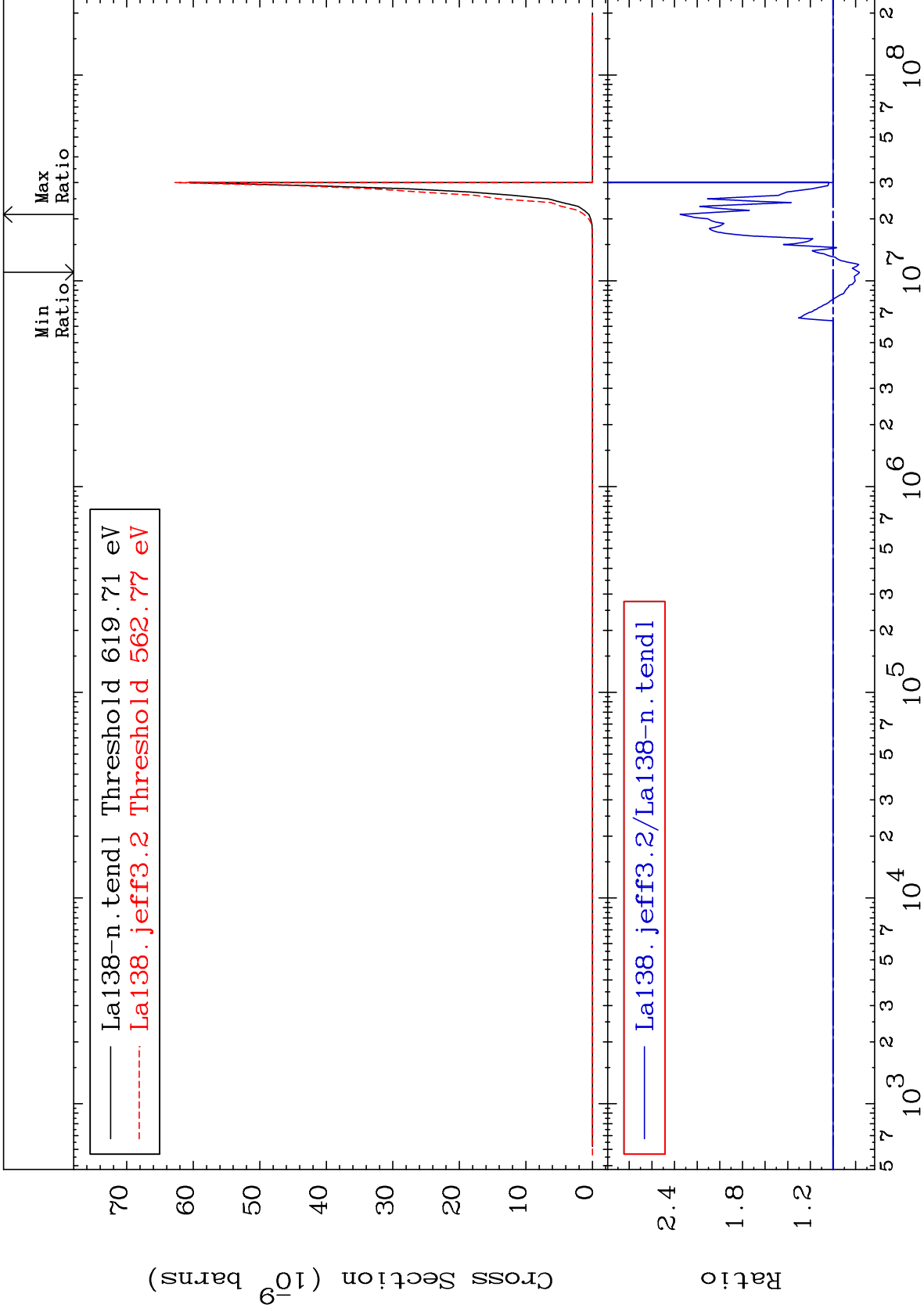
MAT 5725

(n,2α)

57-La-138

Cross Section

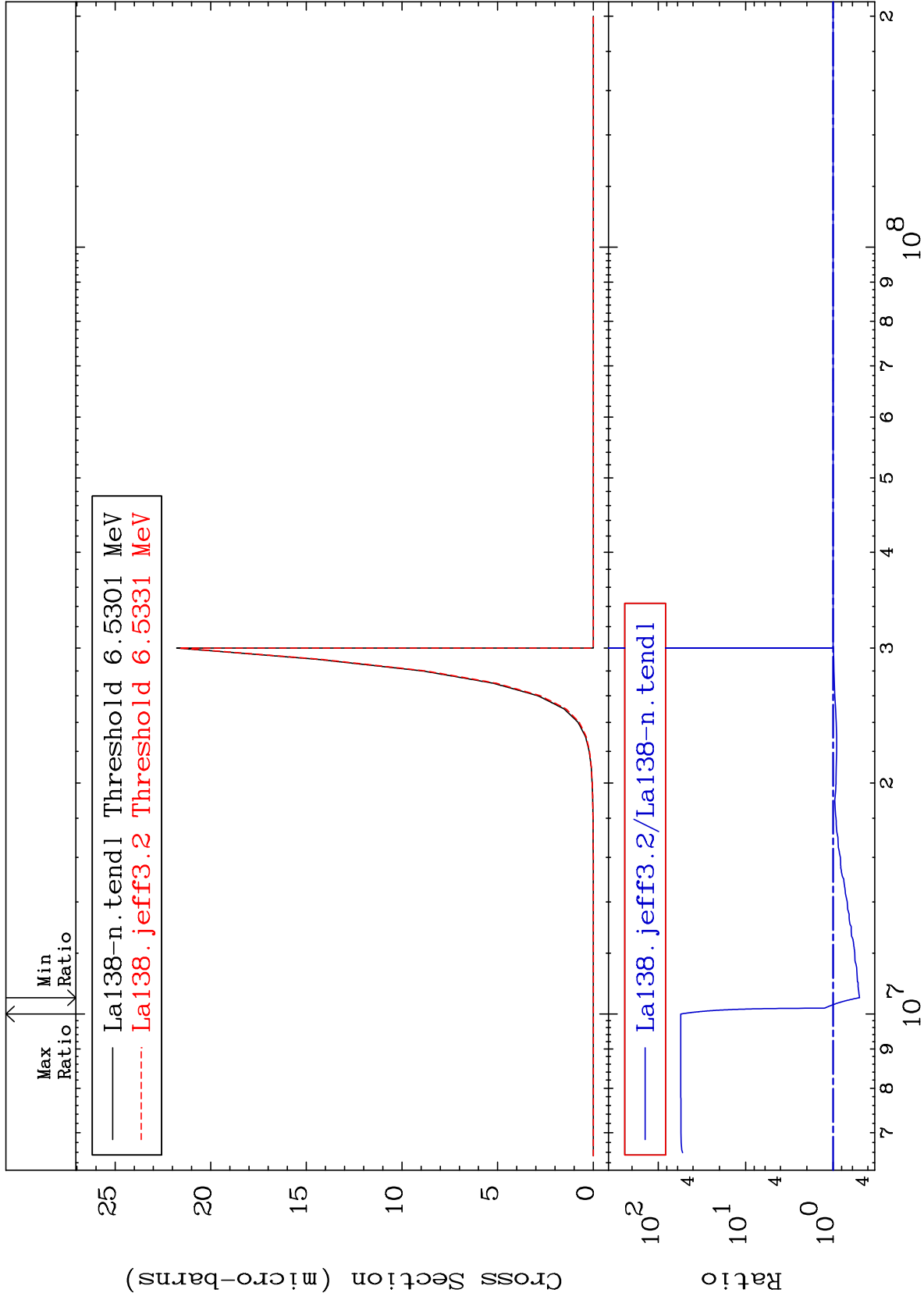
-23.31 To 135.0 %

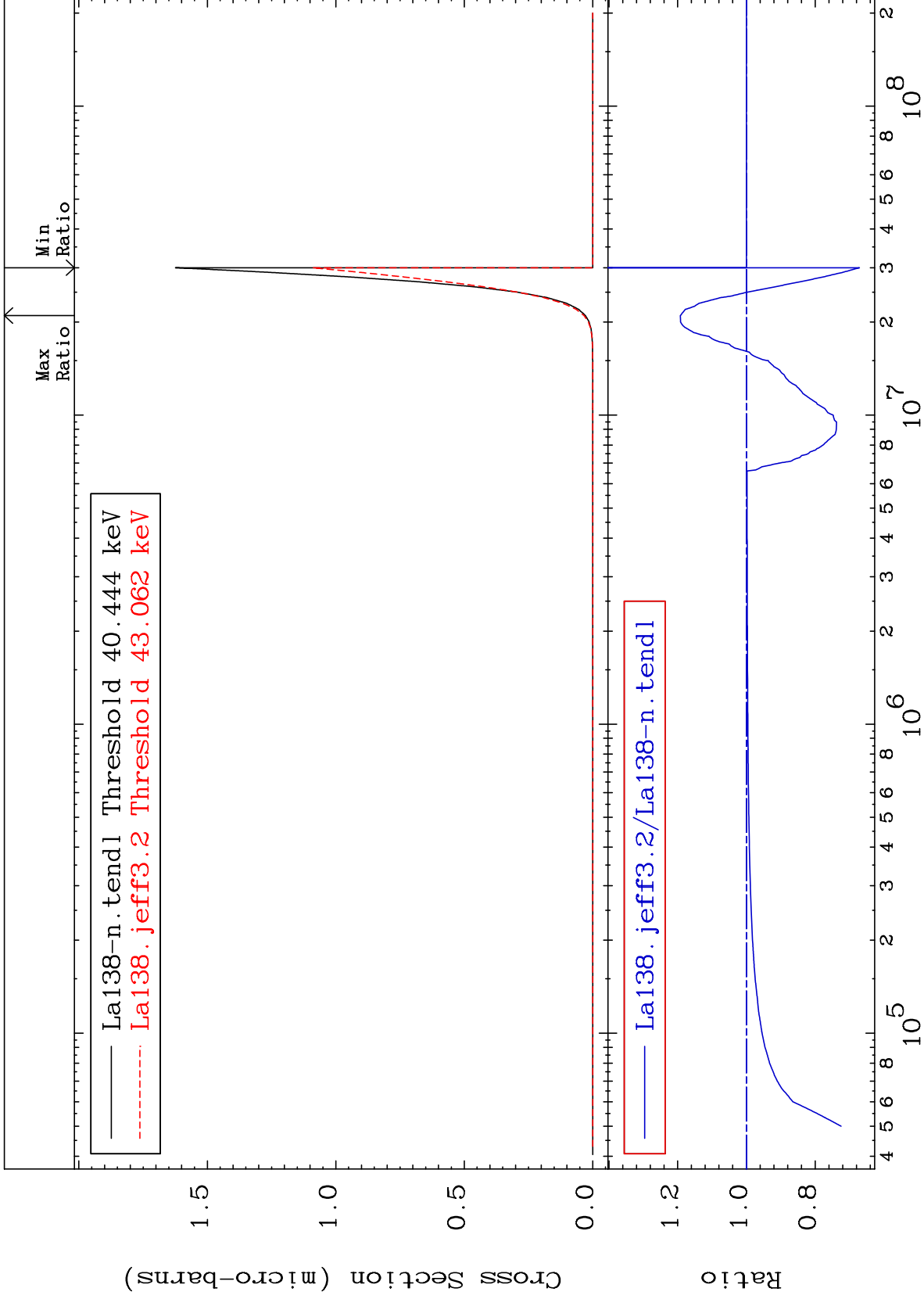


57

Incident Energy (eV)

57-La-138

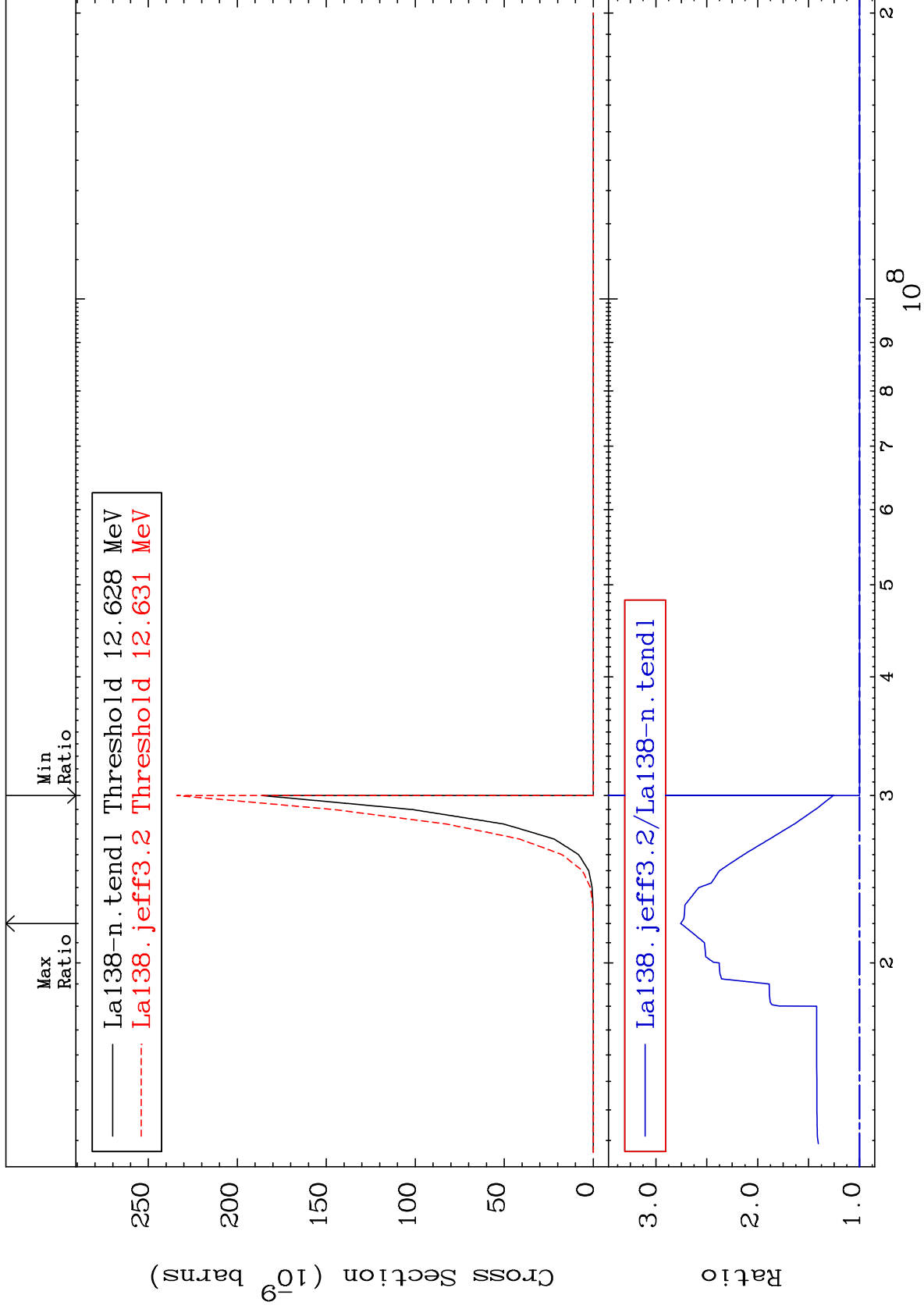




MAT 5725

(n, p) d
Cross Section

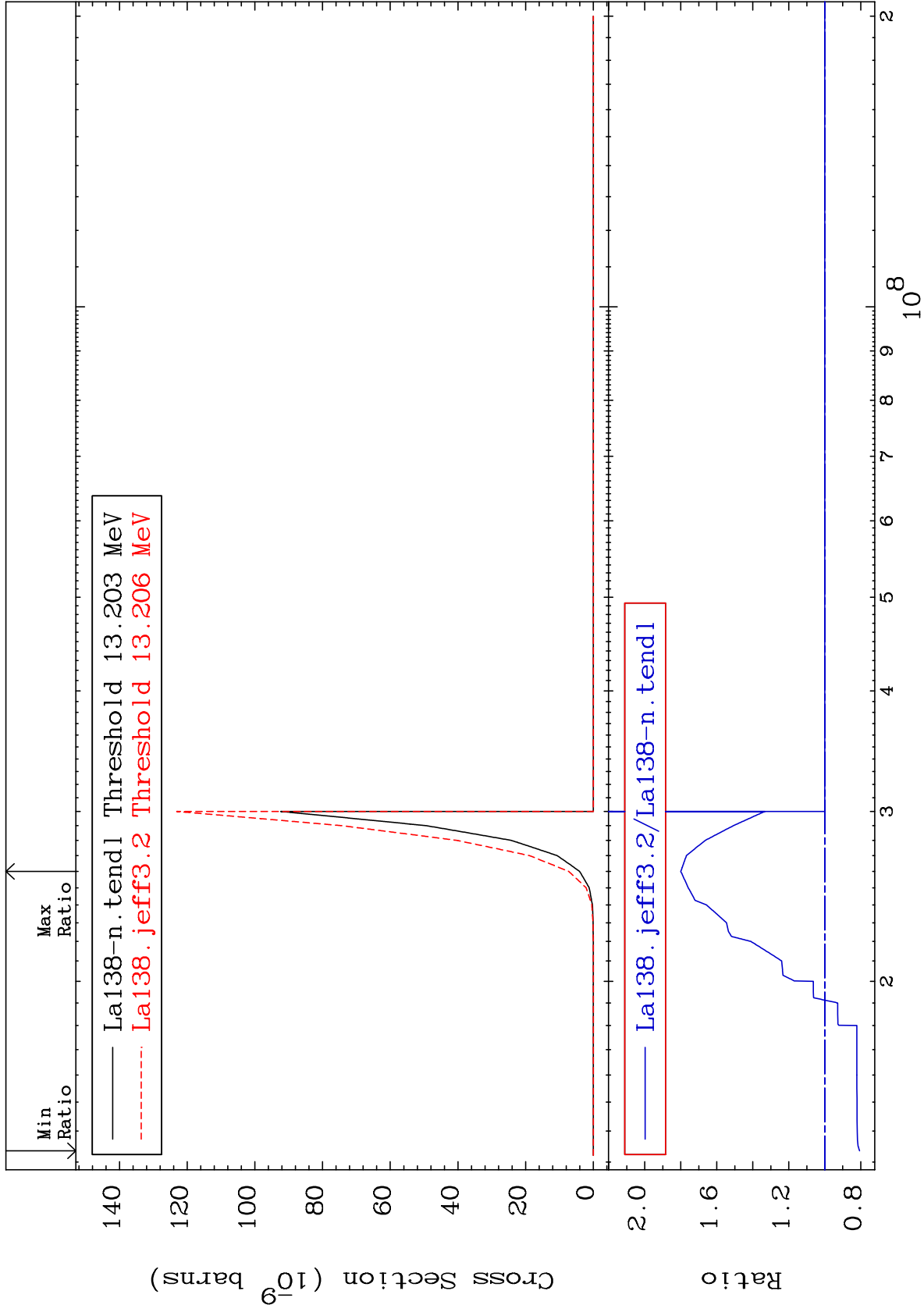
57-La-138
To 175.5 %
0.000



60

Incident Energy (eV)

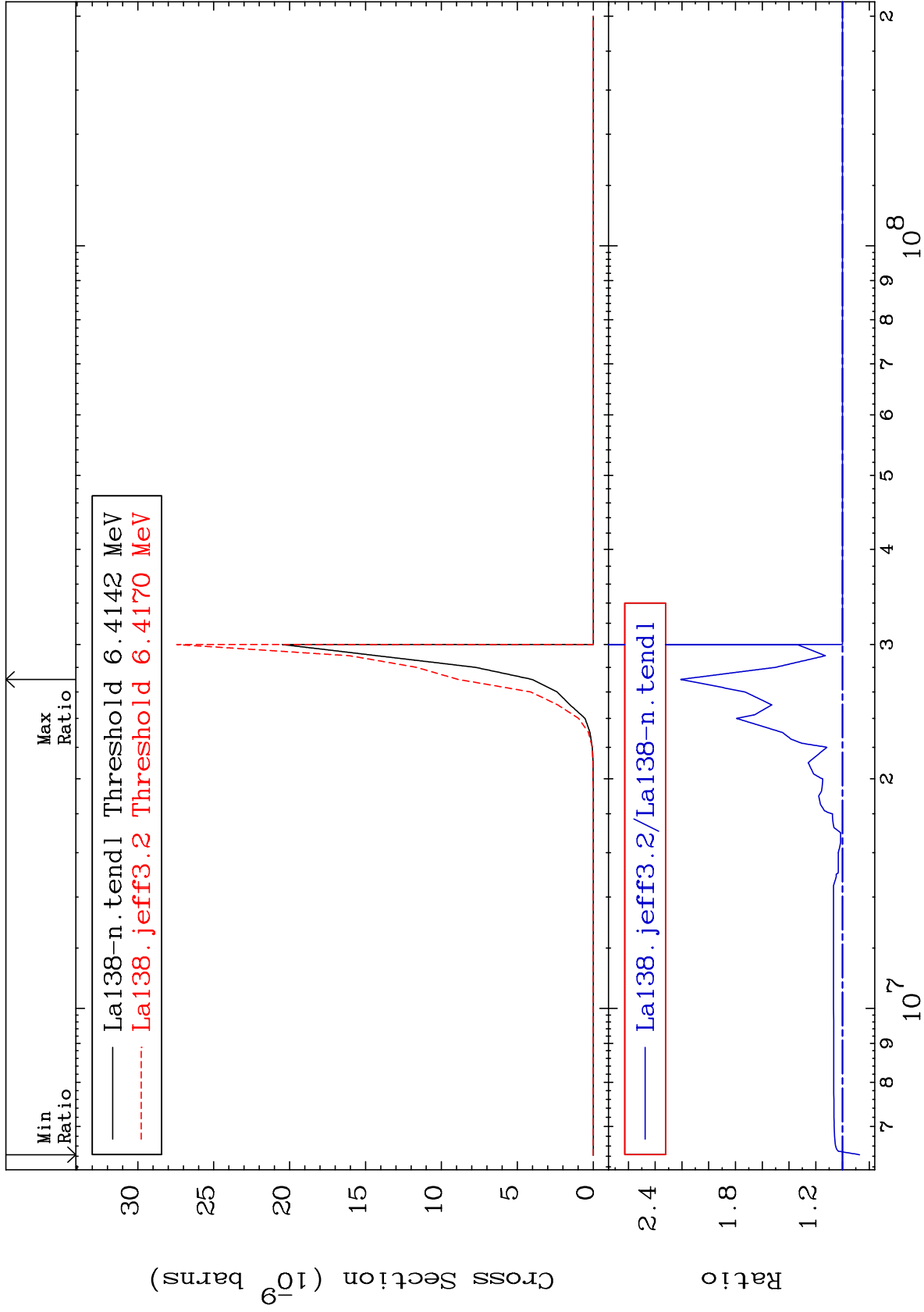
57-La-138



MAT 5725

(n, d) α
Cross Section

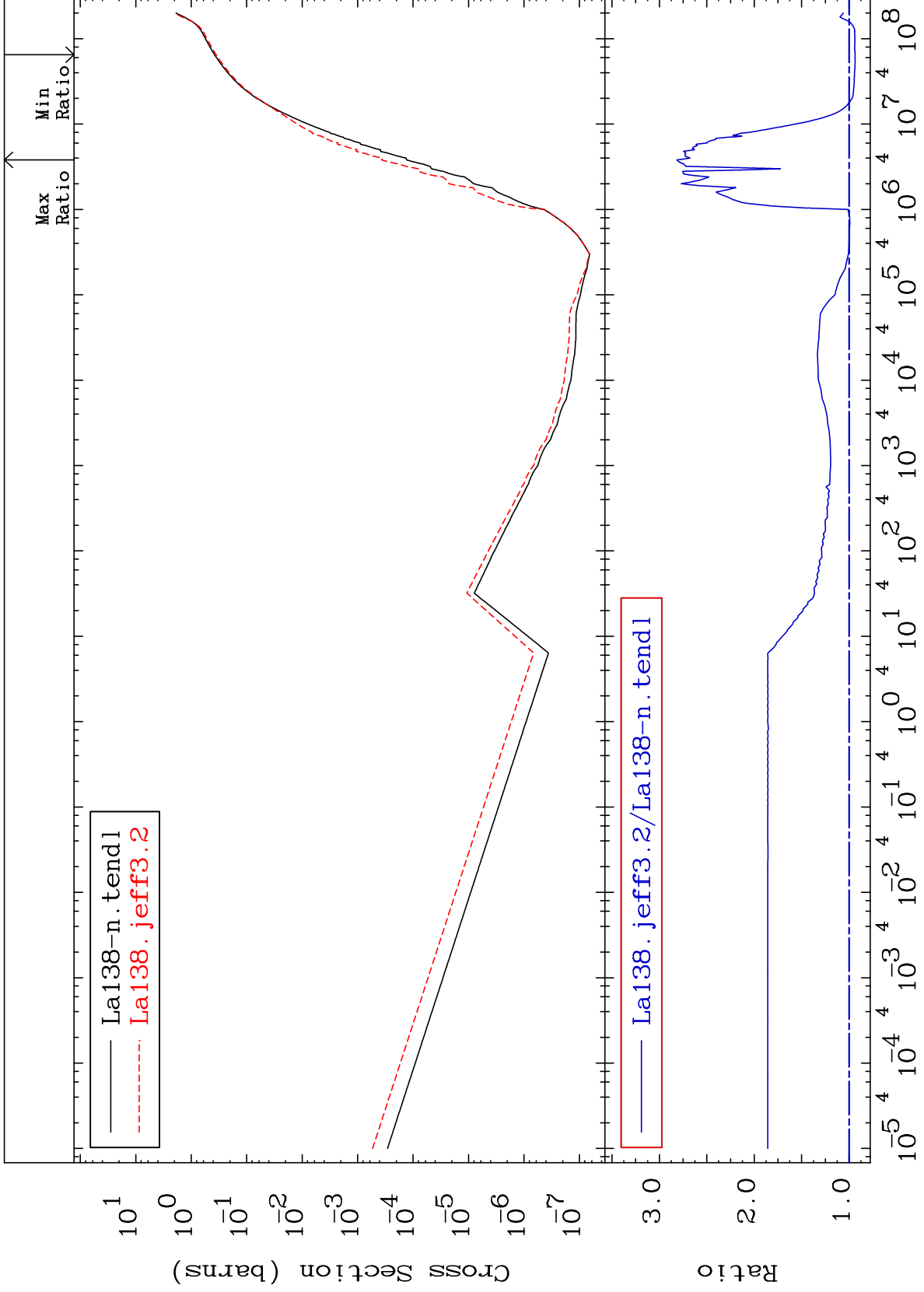
57-La-138
-12.75 To 120.9 %



MAT 5725

Hydrogen Production
Cross Section

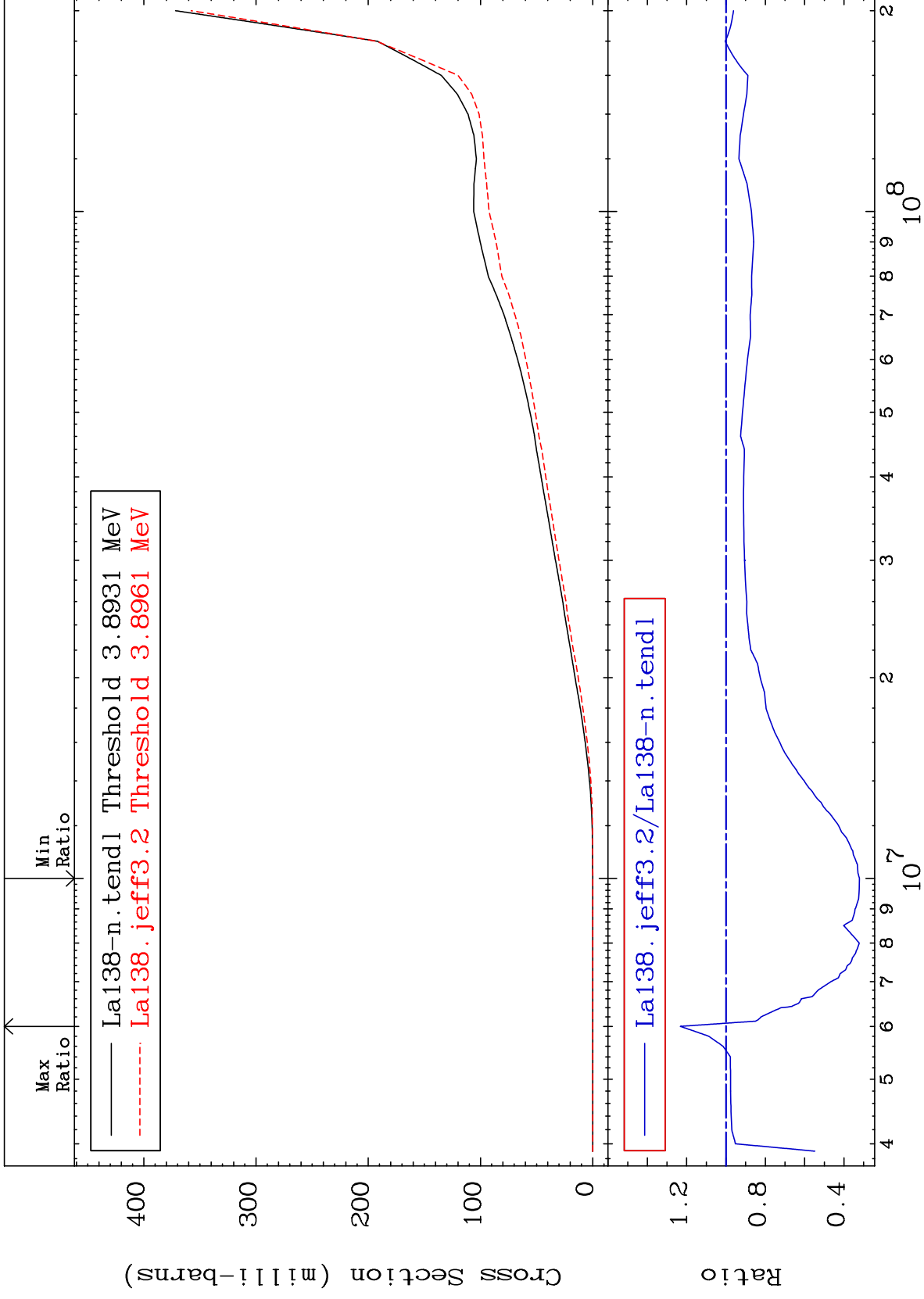
57-La-138
-6.362 To 181.5 %



MAT 5725

Deuterium Production
Cross Section

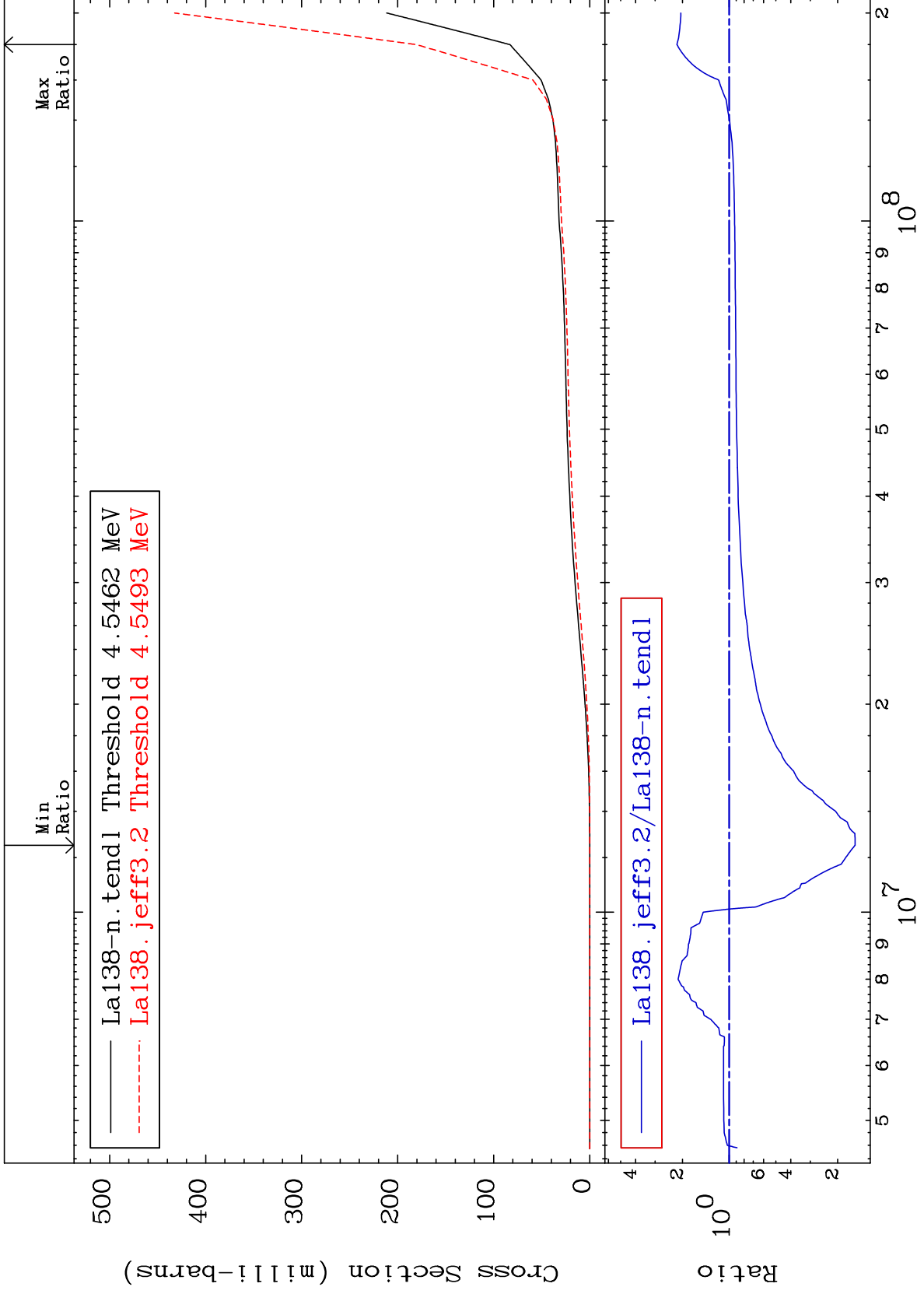
57-La-138
-67.87 To 23.21 %

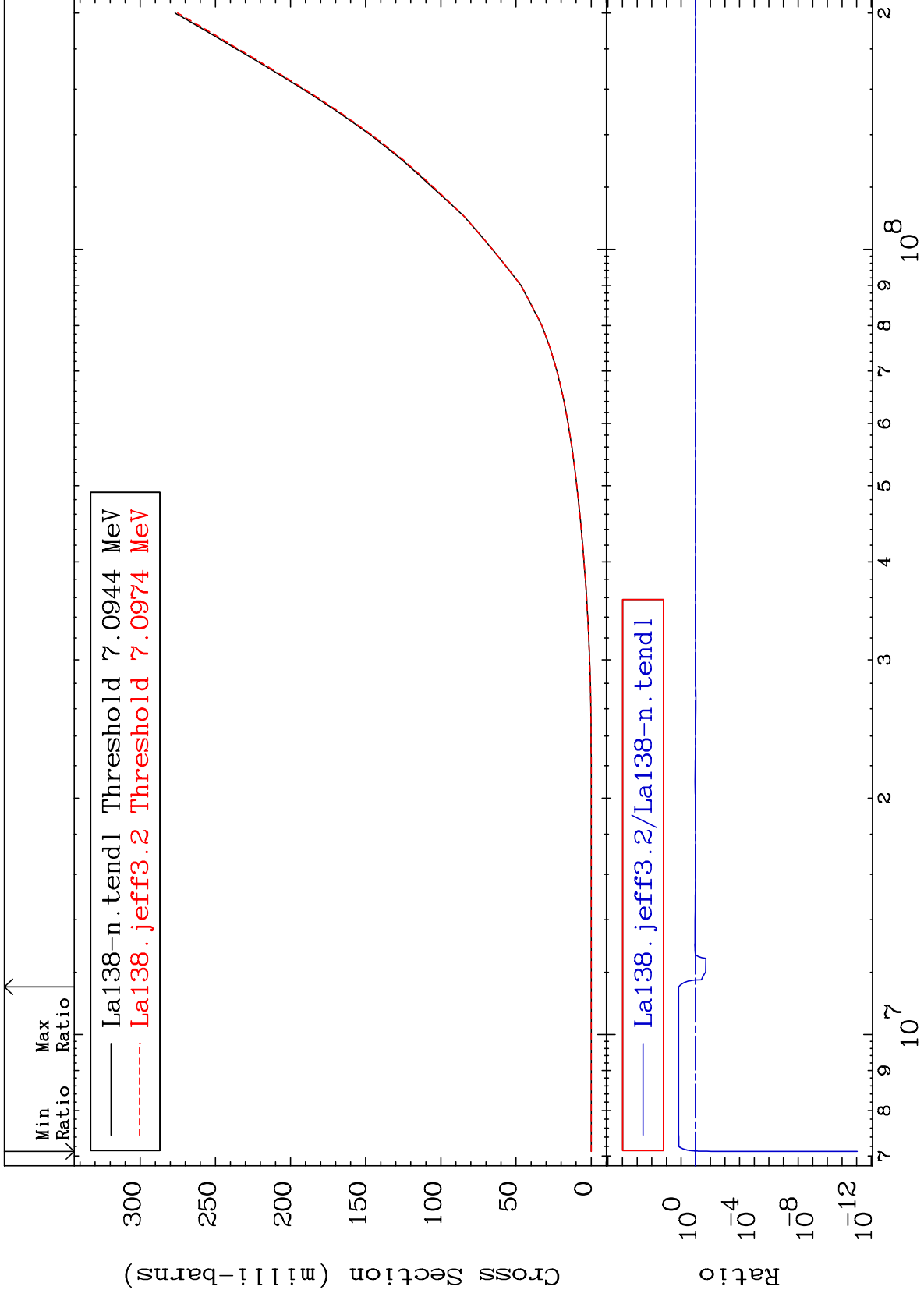


MAT 5725

Tritium Production
Cross Section

57-La-138
-84.58 To 116.9 %

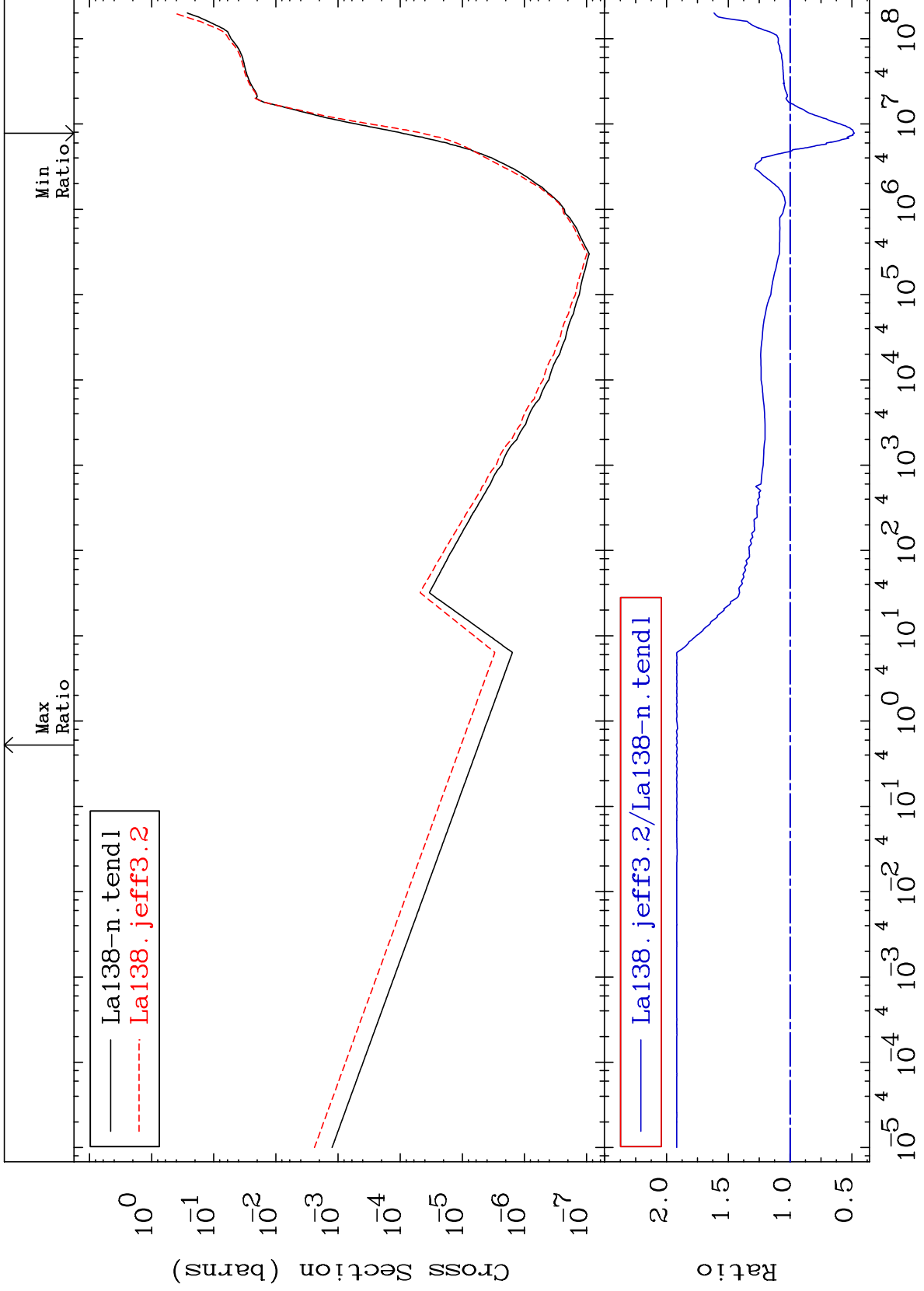




MAT 5725

He-4 Production
Cross Section

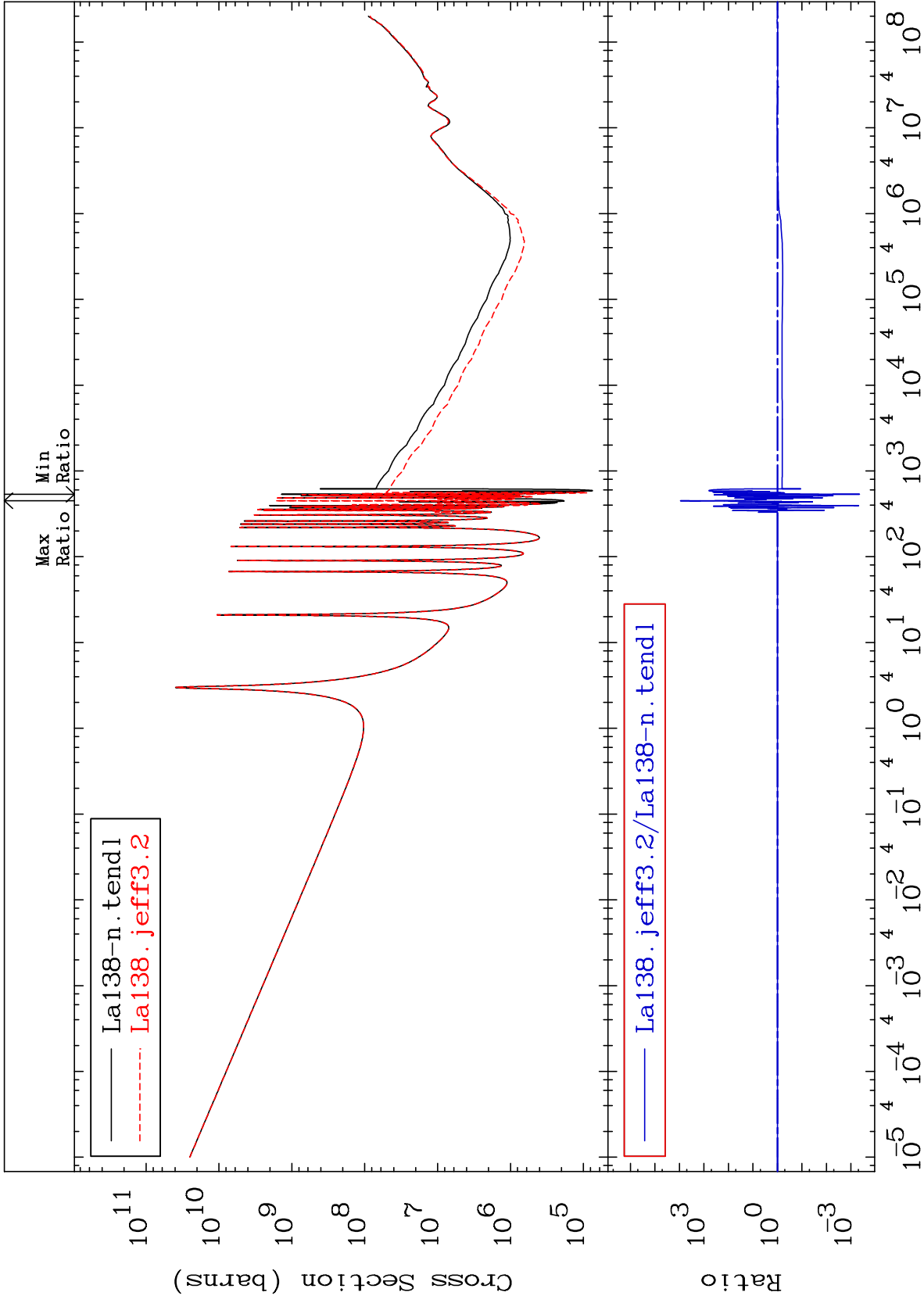
57-La-138
-52.10 To 92.09 %

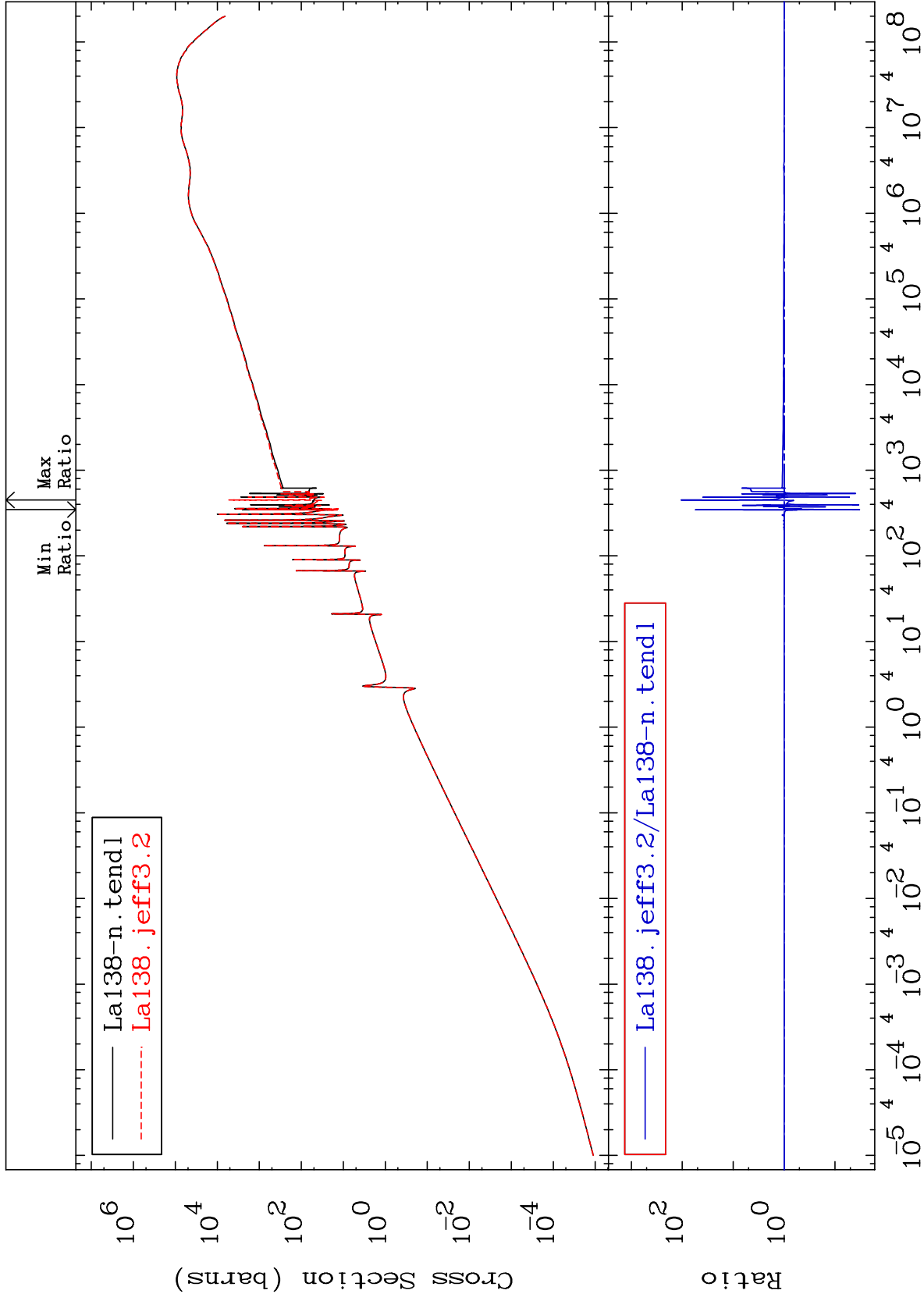


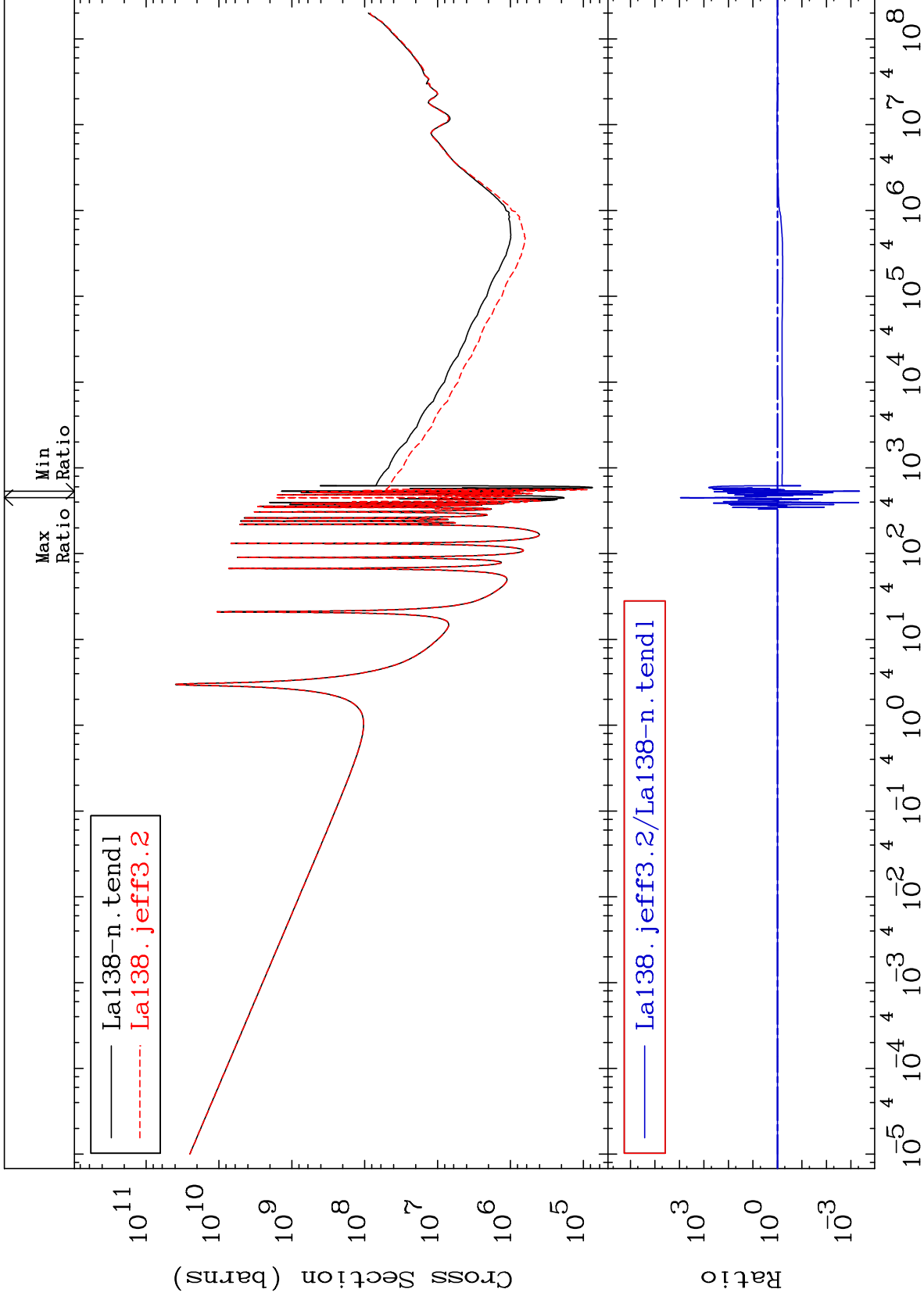
67

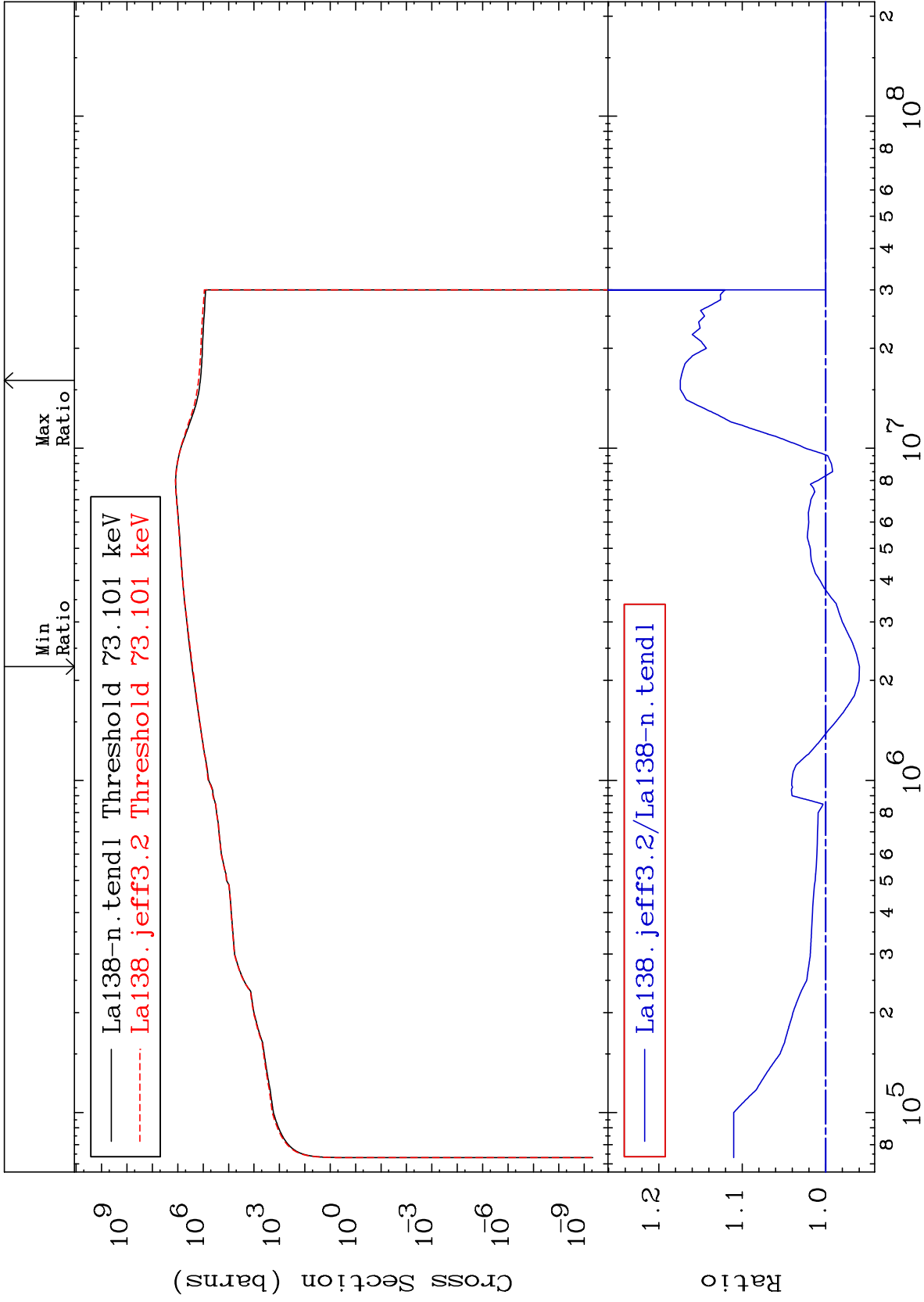
Incident Energy (eV)

57-La-138





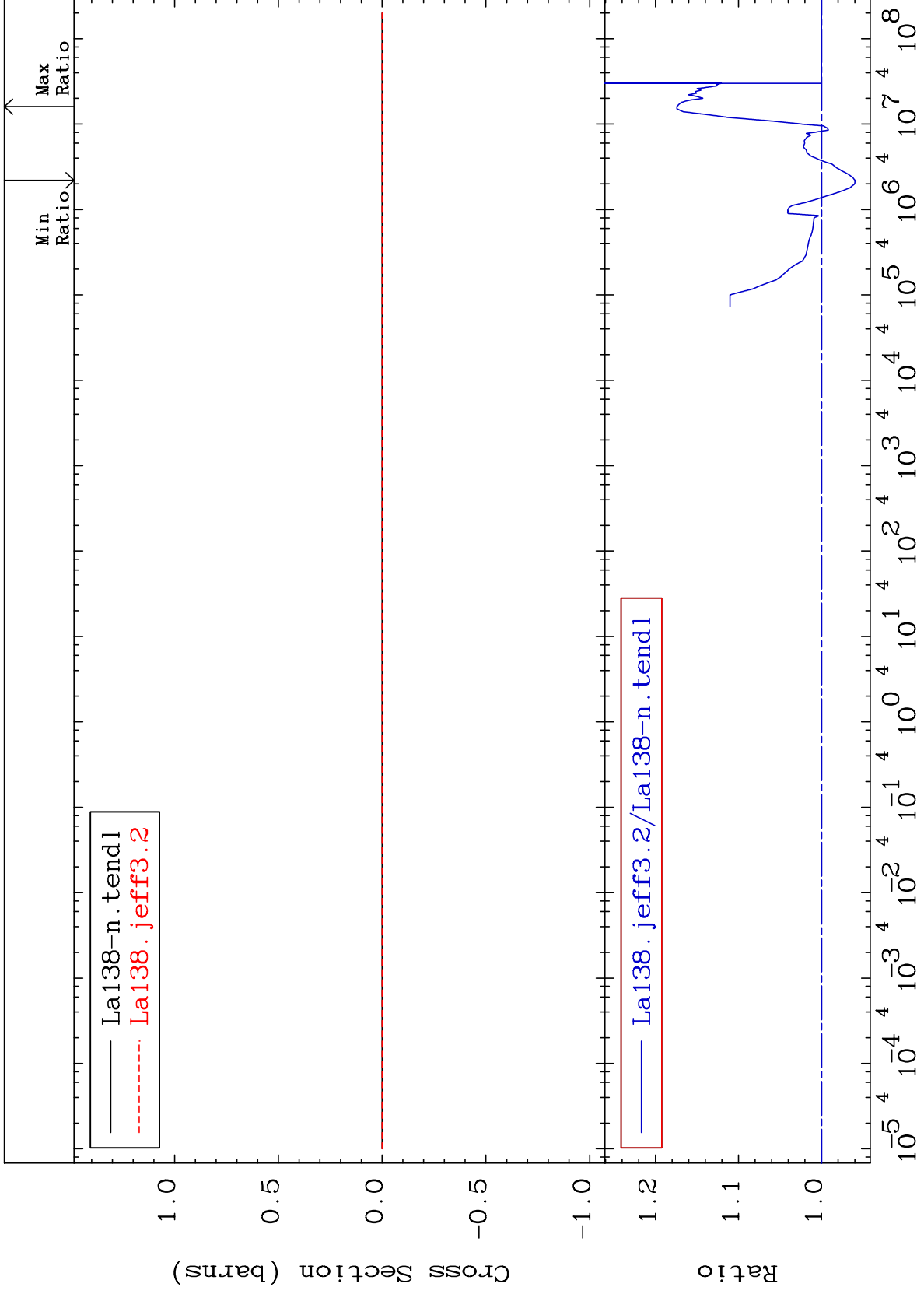


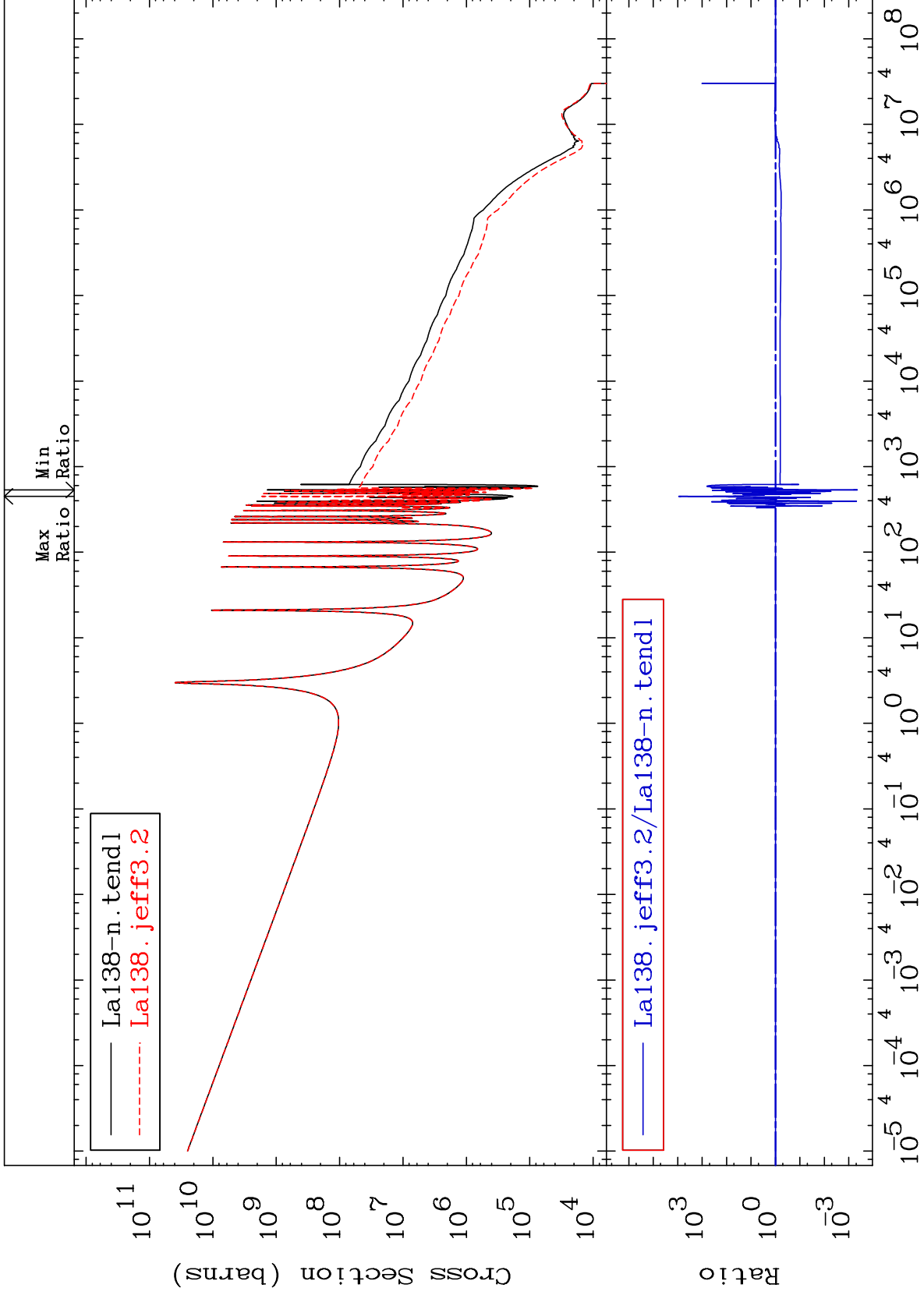


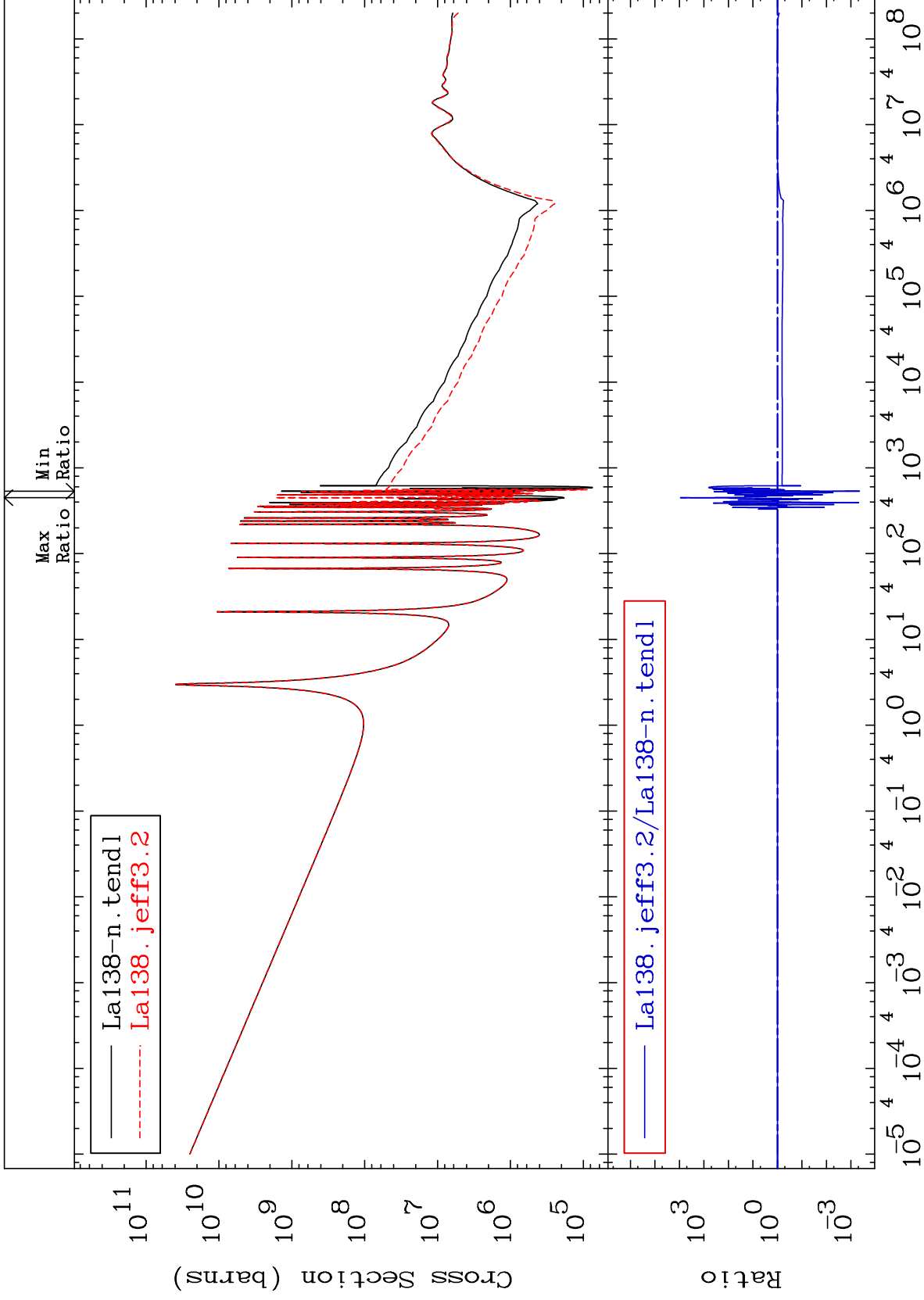
MAT 5725

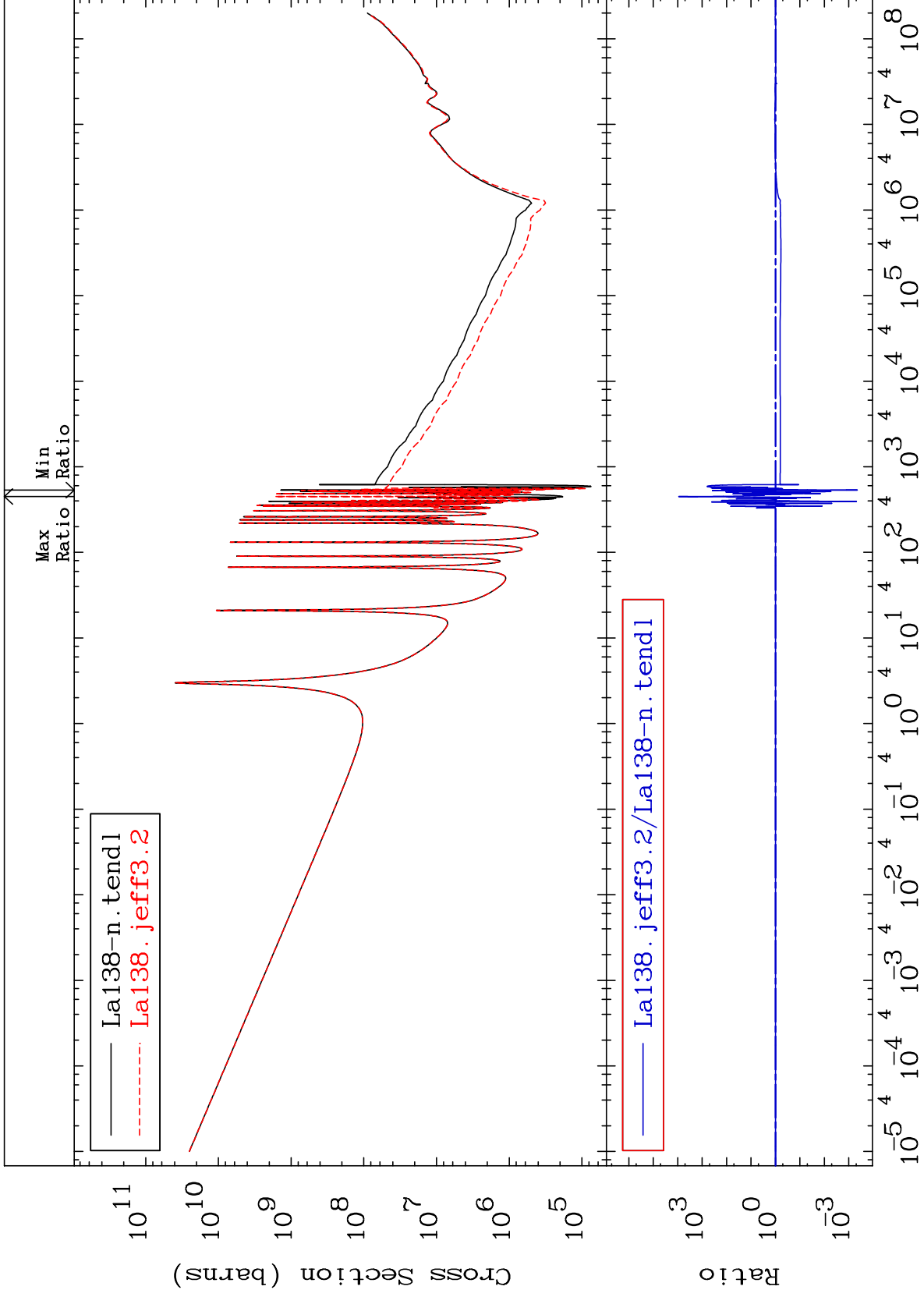
Kerma fission (mt18 or mt19-20-21-38)
Cross Section

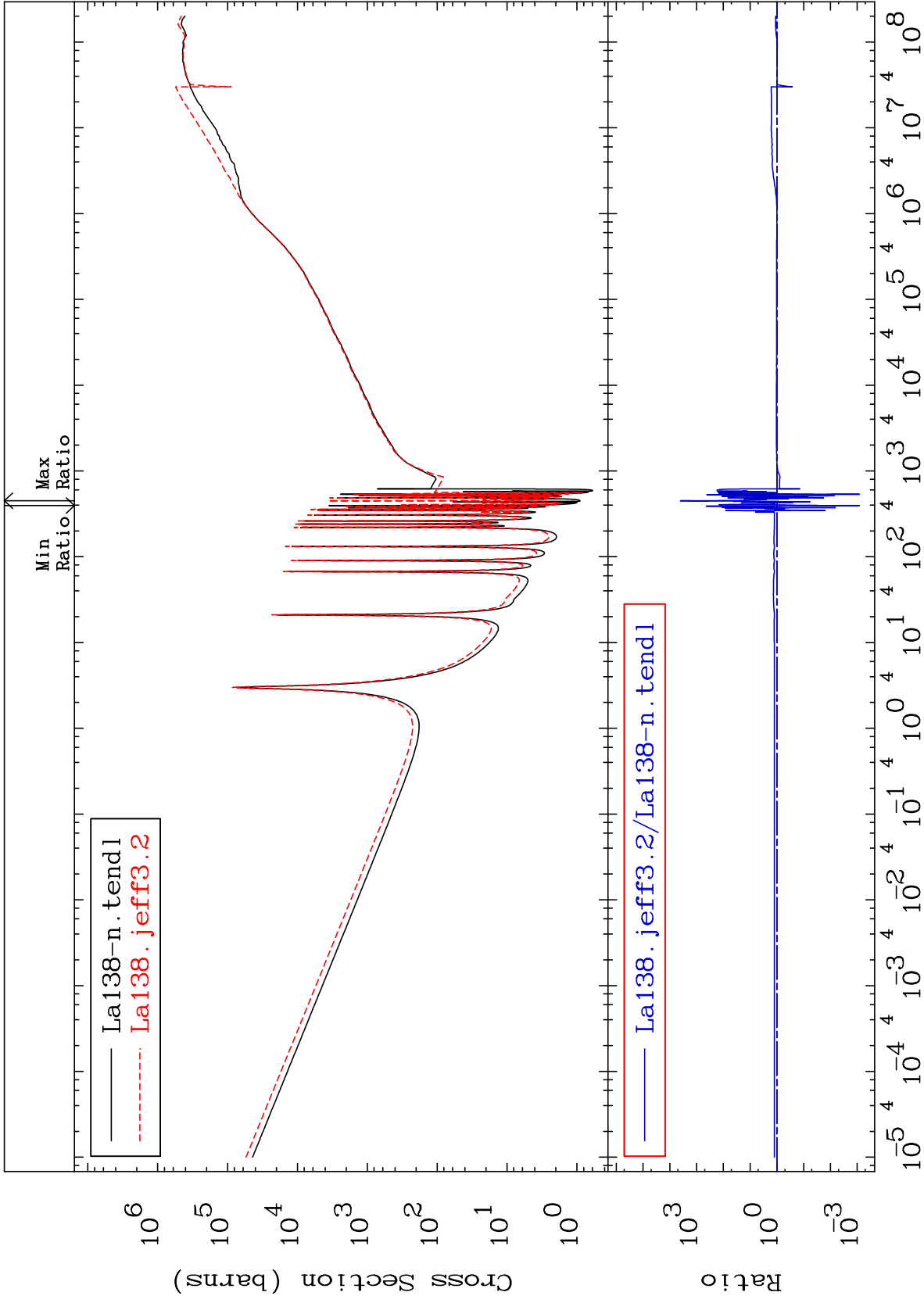
57-La-138
-4.036 To 17.41 %







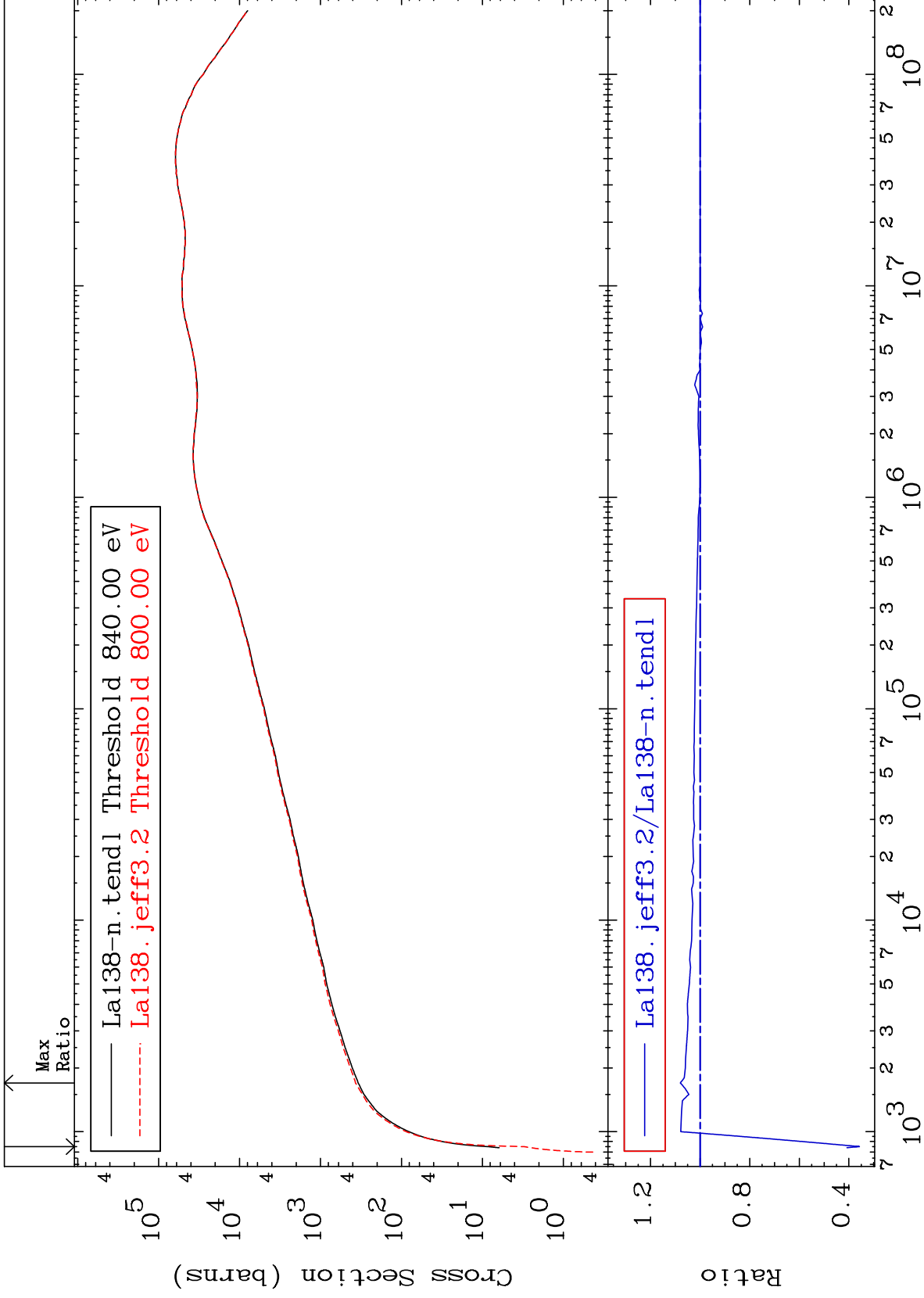




MAT 5725

Dpa elastic (mt2)
Cross Section

57-La-138
-64.25 To 7.961 %



77

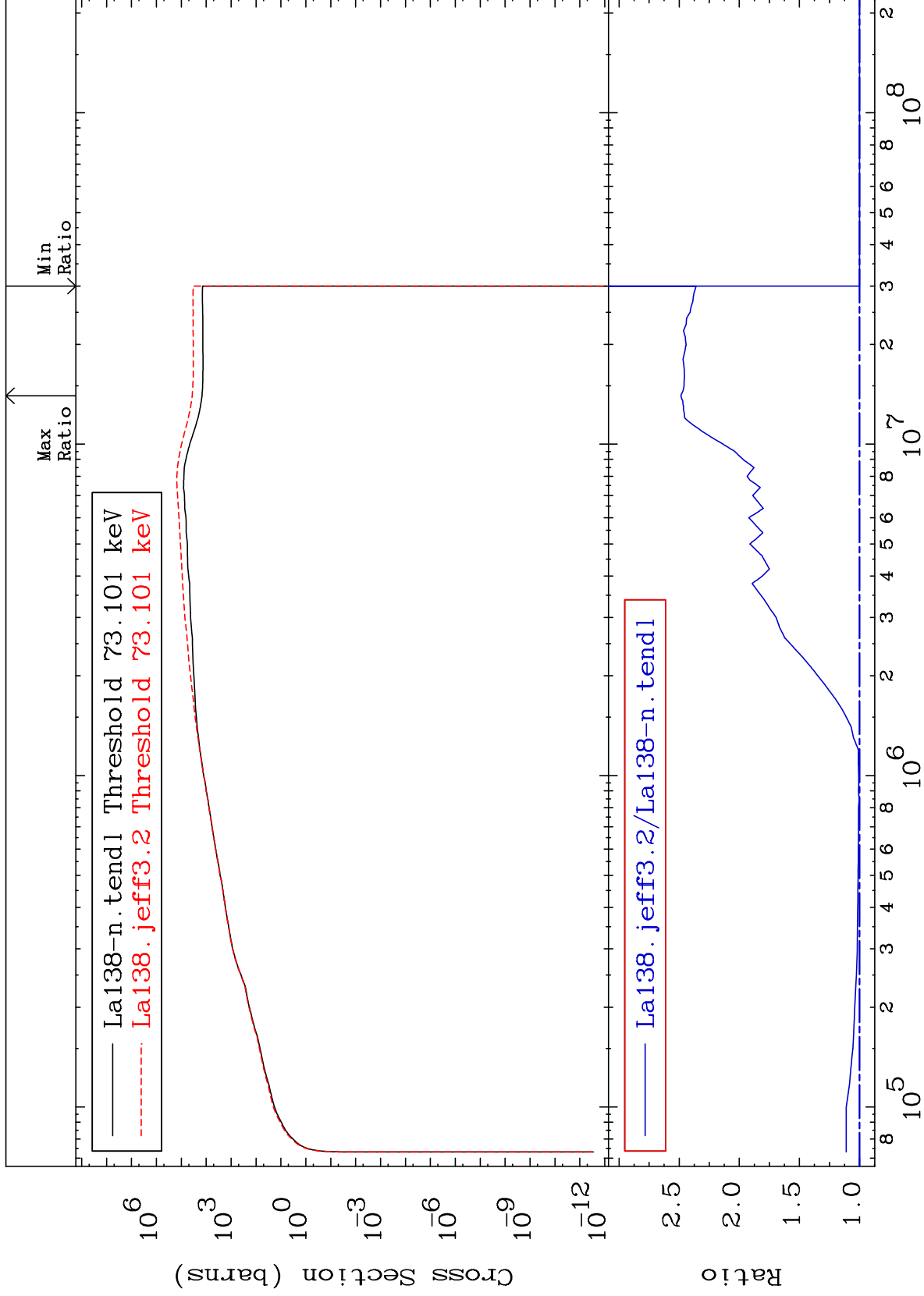
Incident Energy (eV)

57-La-138

MAT 5725

Dpa inelastic (mt51-91)
Cross Section

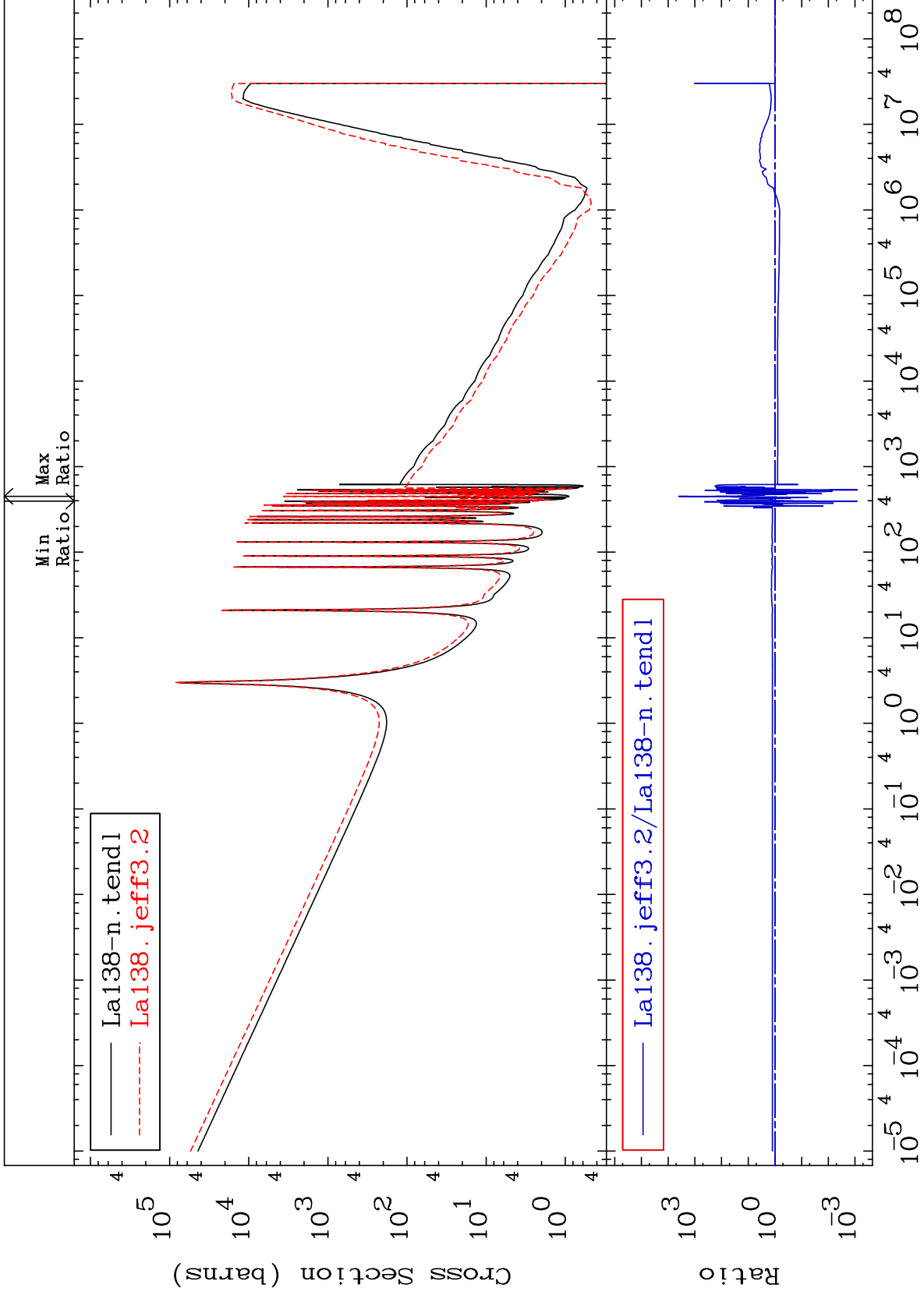
57-La-138
To 148.7 %



78

Incident Energy (eV)

57-La-138

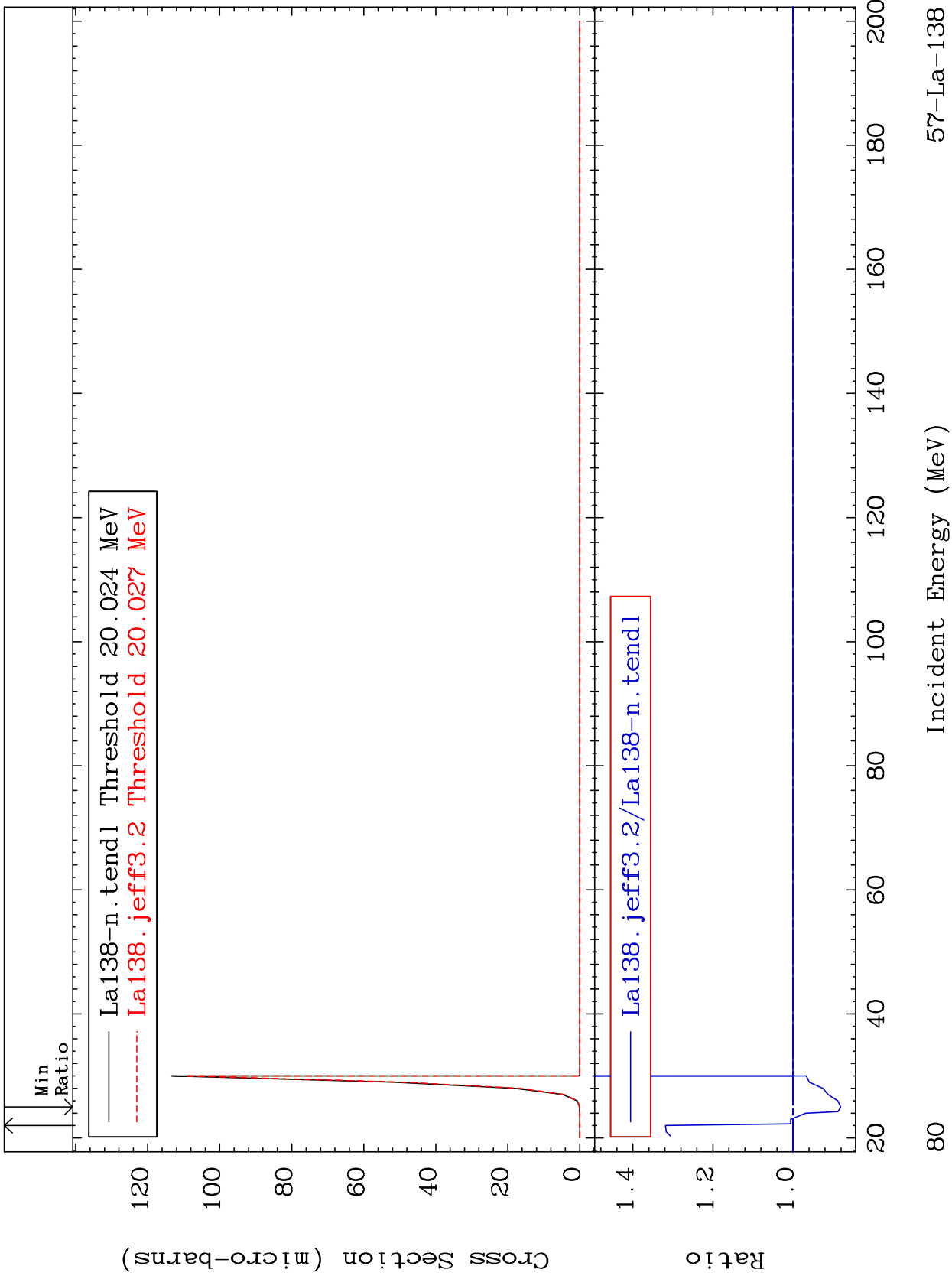


MAT 5725

(n,2n) d:56-Ba-135g

57-La-138

Radionuclide Production Cross Section -11.90 To 31.85 %



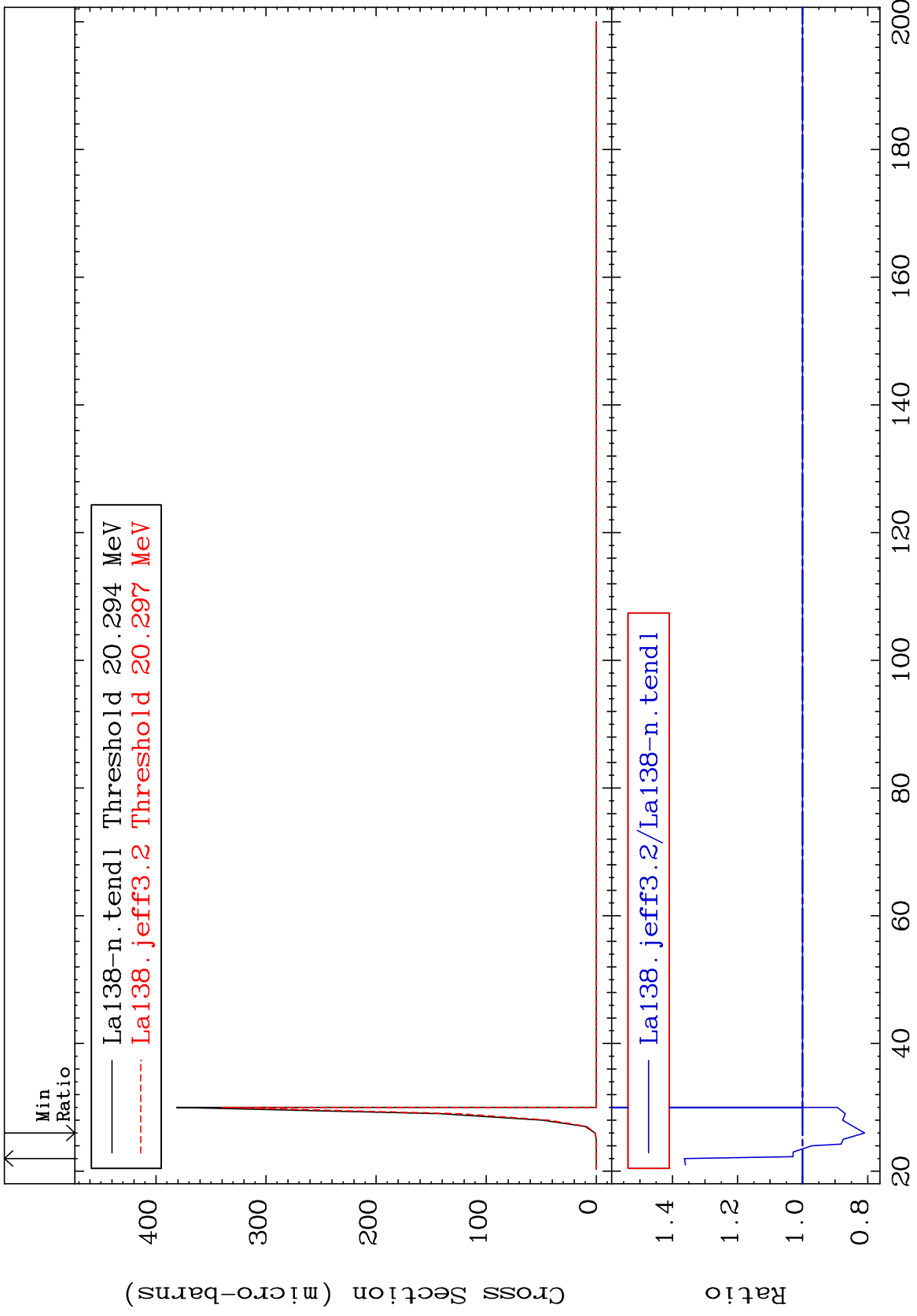
57-La-138

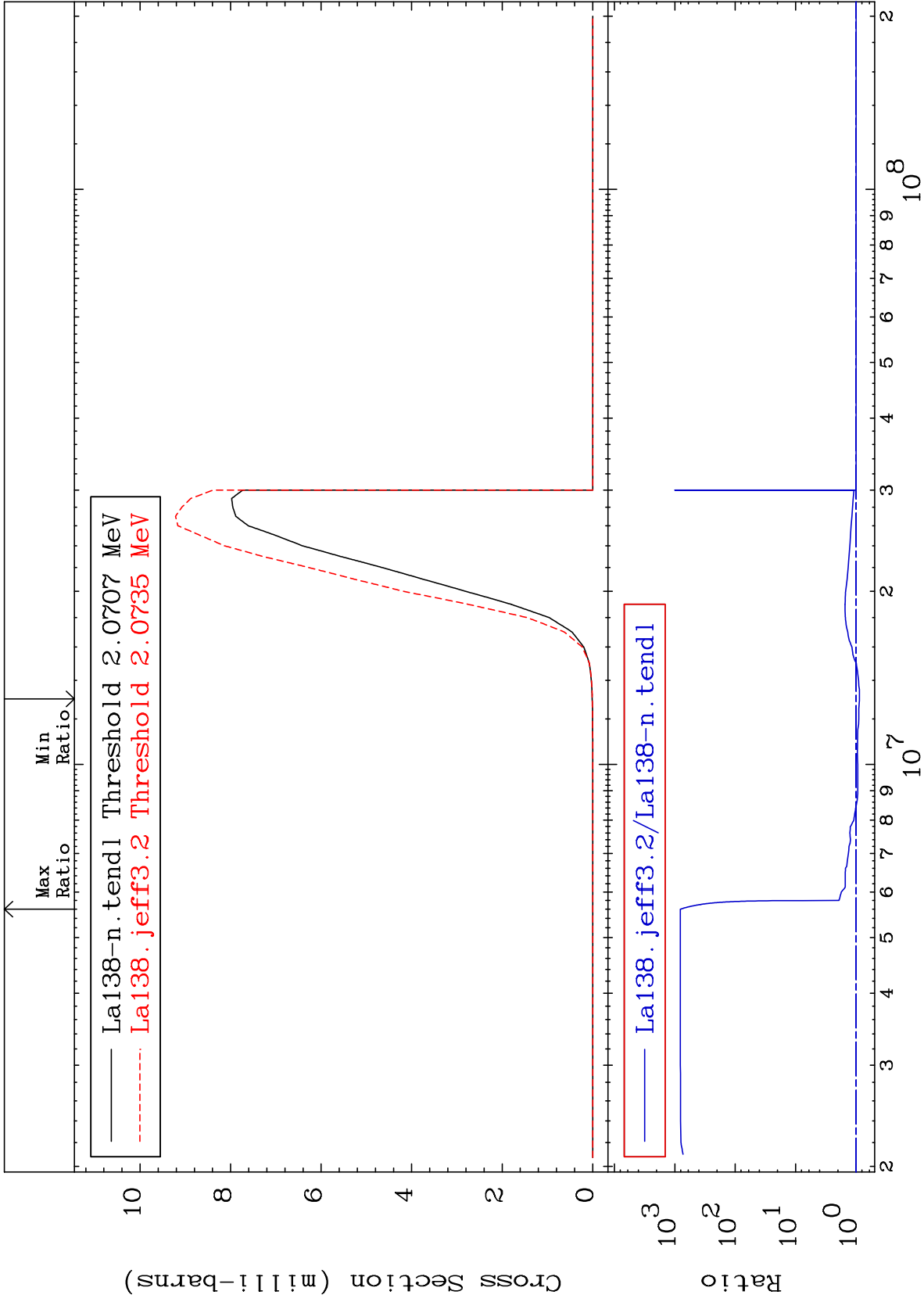
MAT 5725

(n,2n) d:56-Ba-135m2

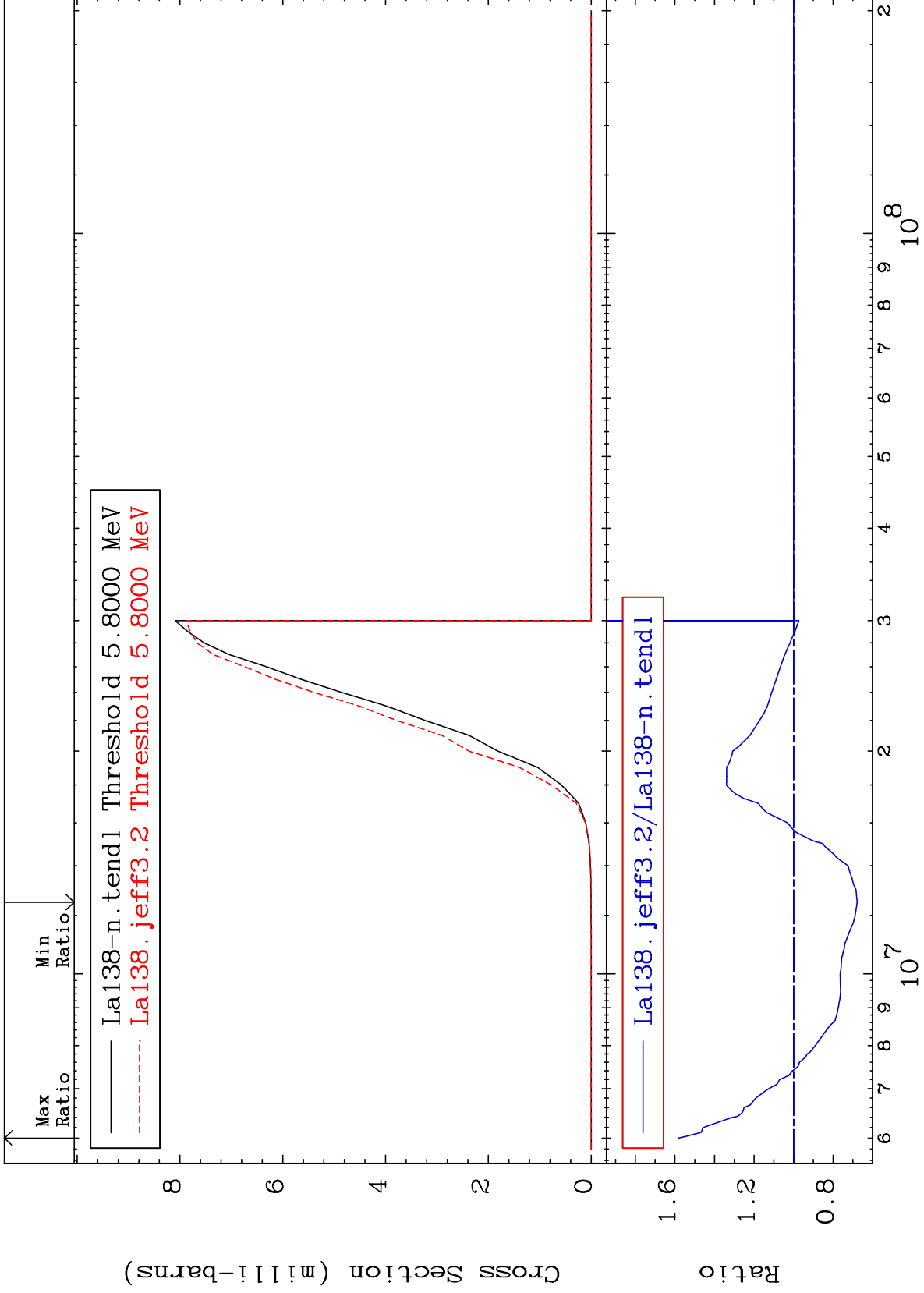
57-La-138

Radionuclide Production Cross Section -19.07 To 36.31 %





Radionuclide Production Cross Section -32.18 To 58.13 %

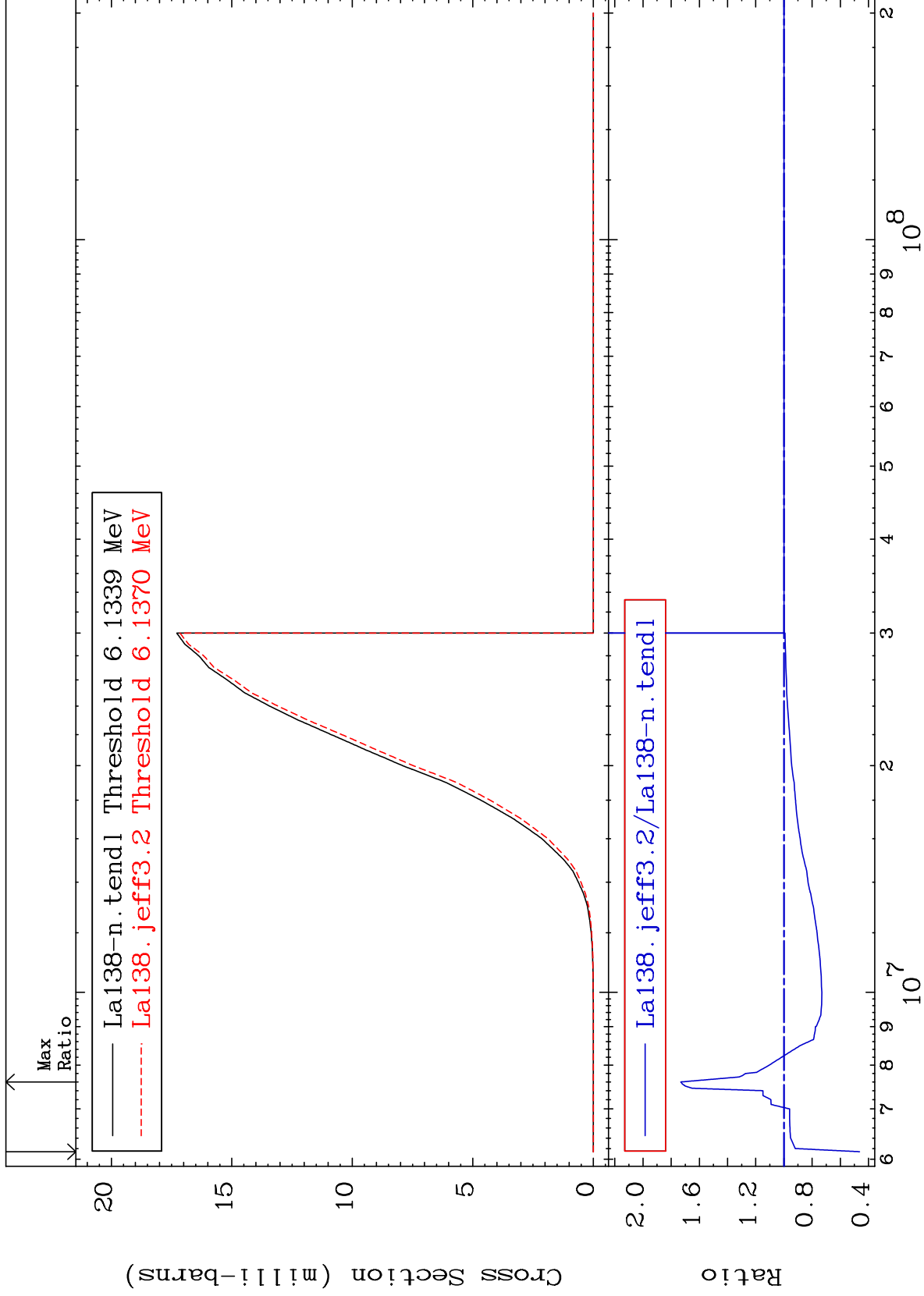


MAT 5725

(n, n') p:56-Ba-137g

57-La-138

Radionuclide Production Cross Section -53.66 To 73.20 %

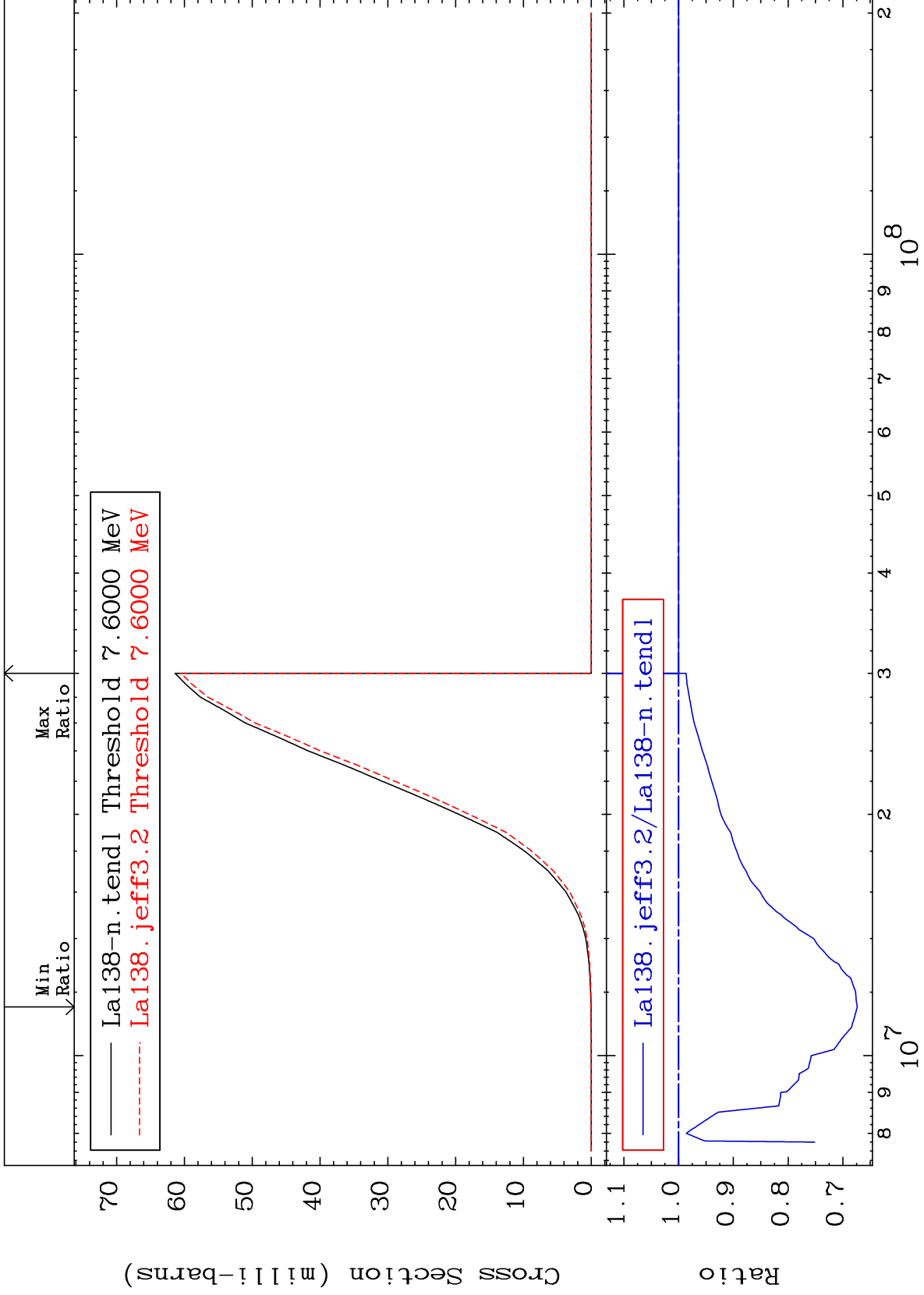


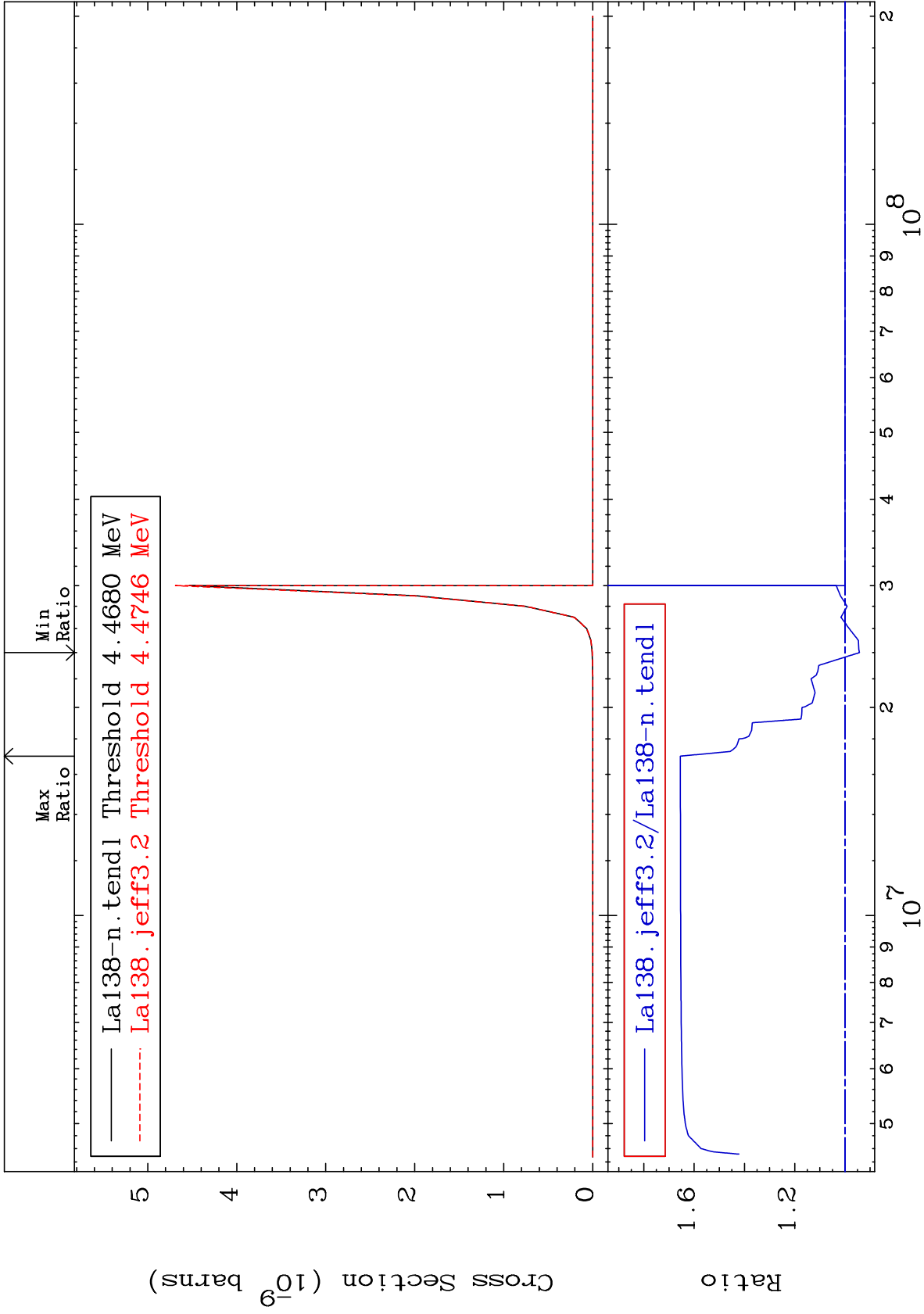
MAT 5725

(n,n') p:56-Ba-137m2

57-La-138

Radionuclide Production Cross Section -32.63 To 0.000 %



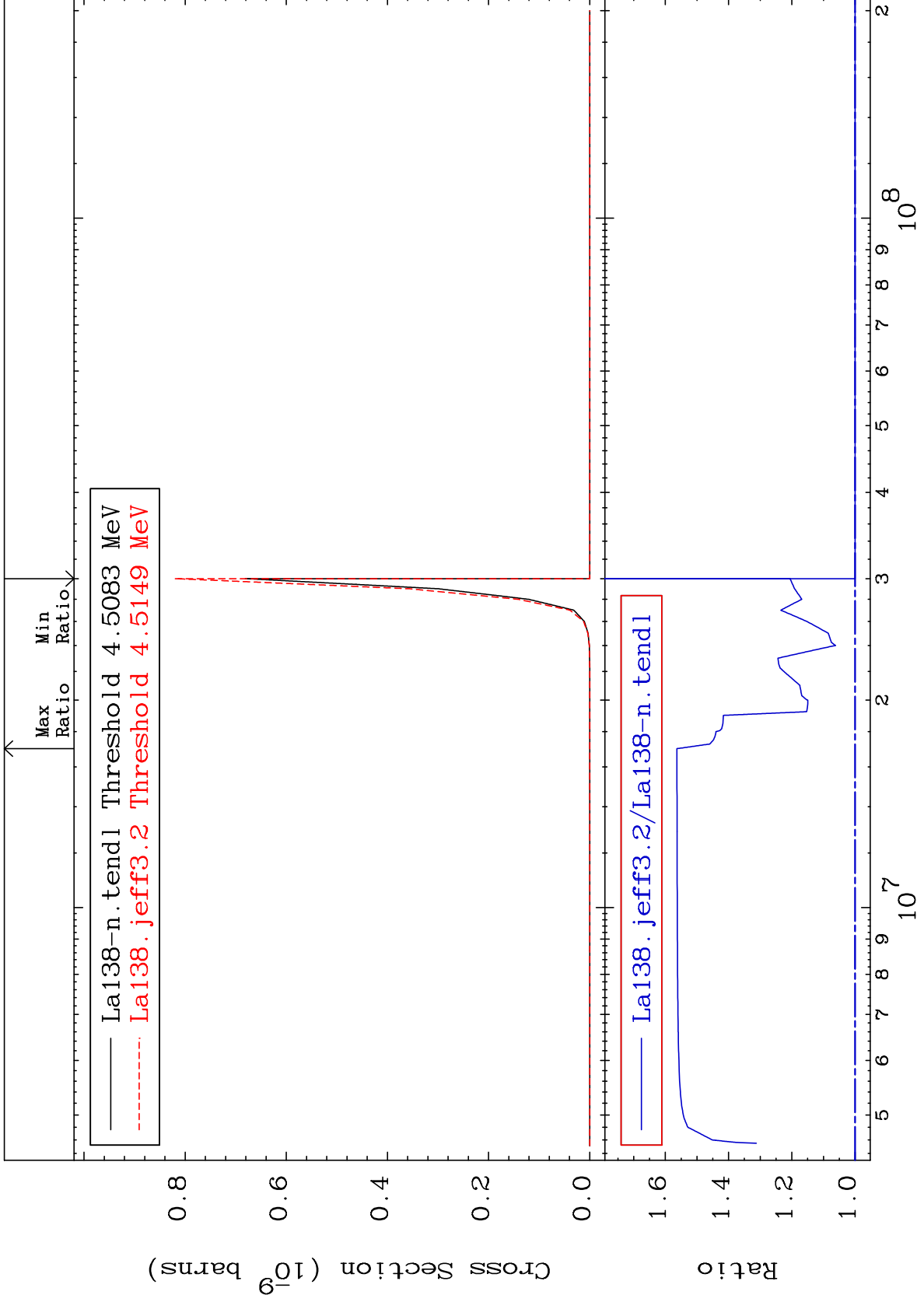


MAT 5725

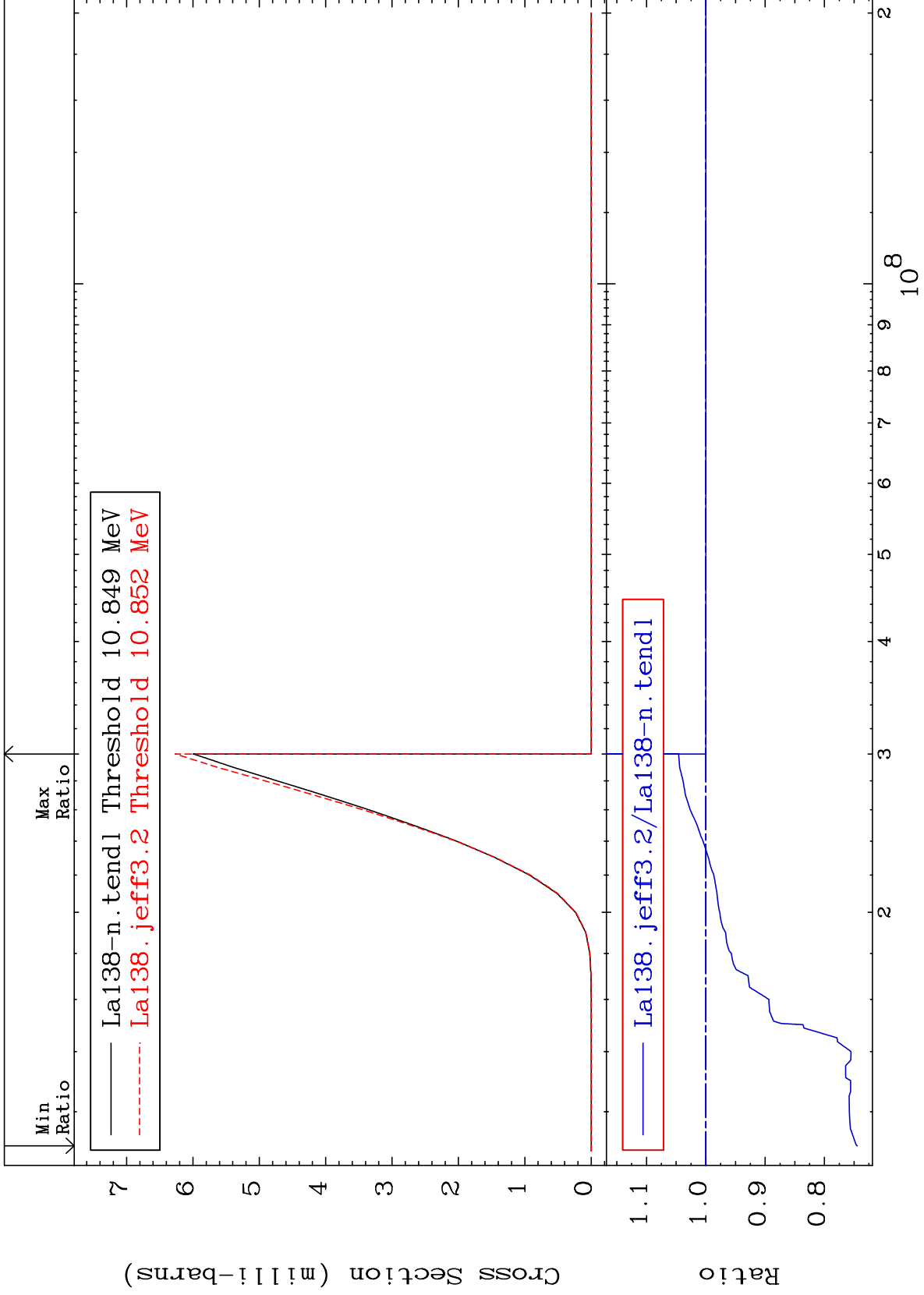
(n, n') 2α:53-I -130m1

57-La-138

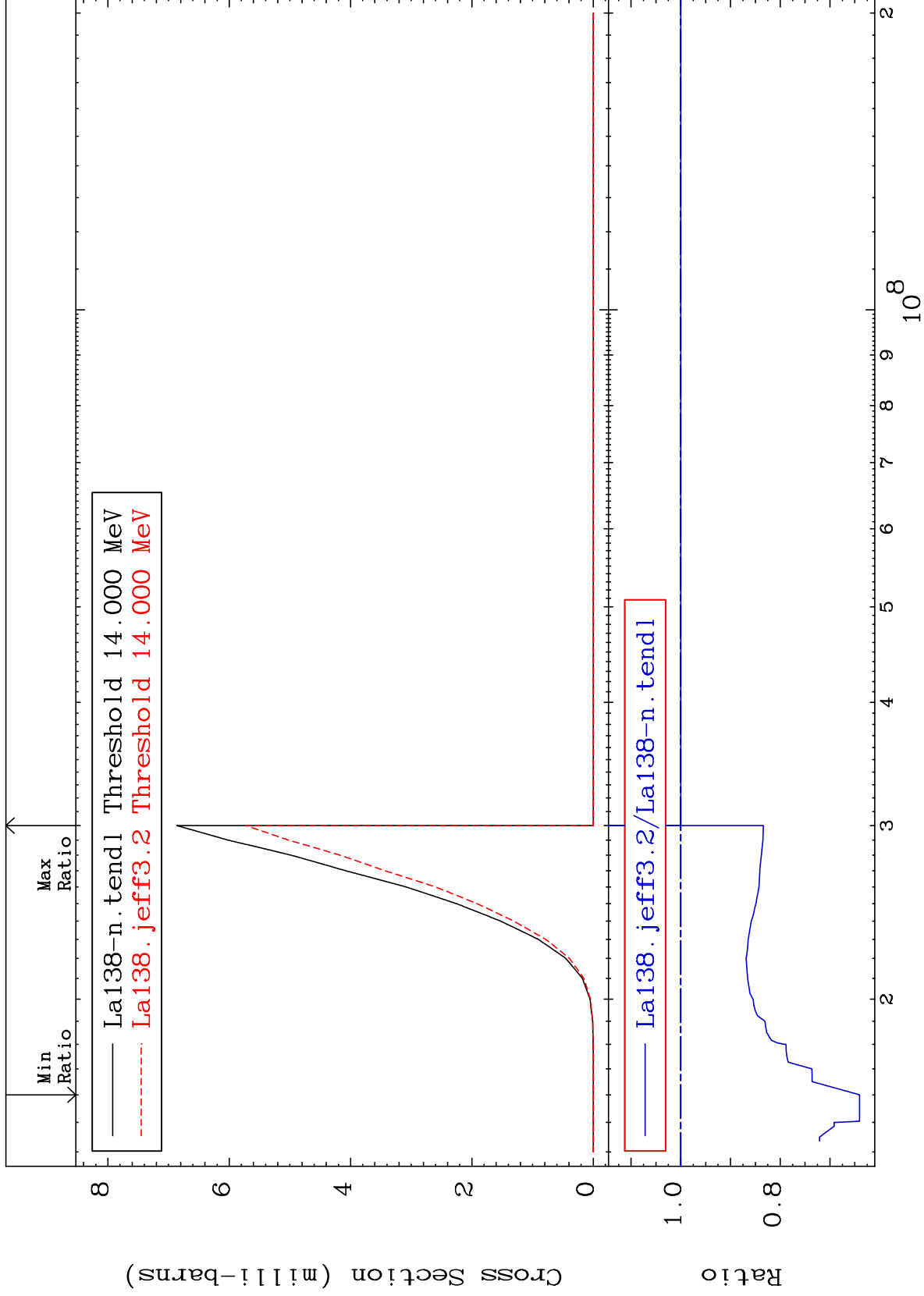
Radionuclide Production Cross Section 0.000 To 56.33 %



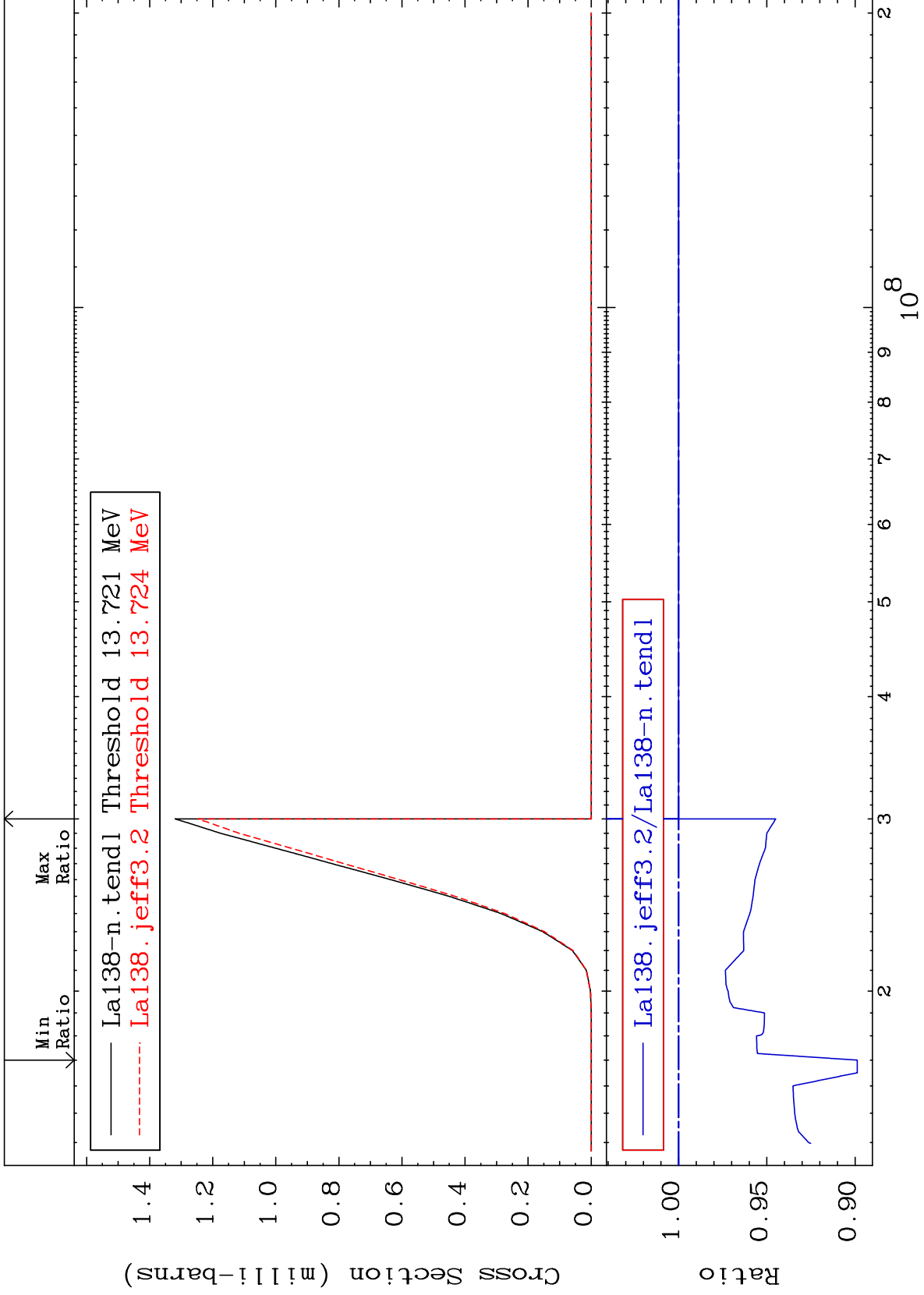
Radionuclide Production Cross Section -25.52 To 4.584 %



Radionuclide Production Cross Section -35.95 To 0.000 %



Radionuclide Production Cross Section -10.12 To 0.000 %

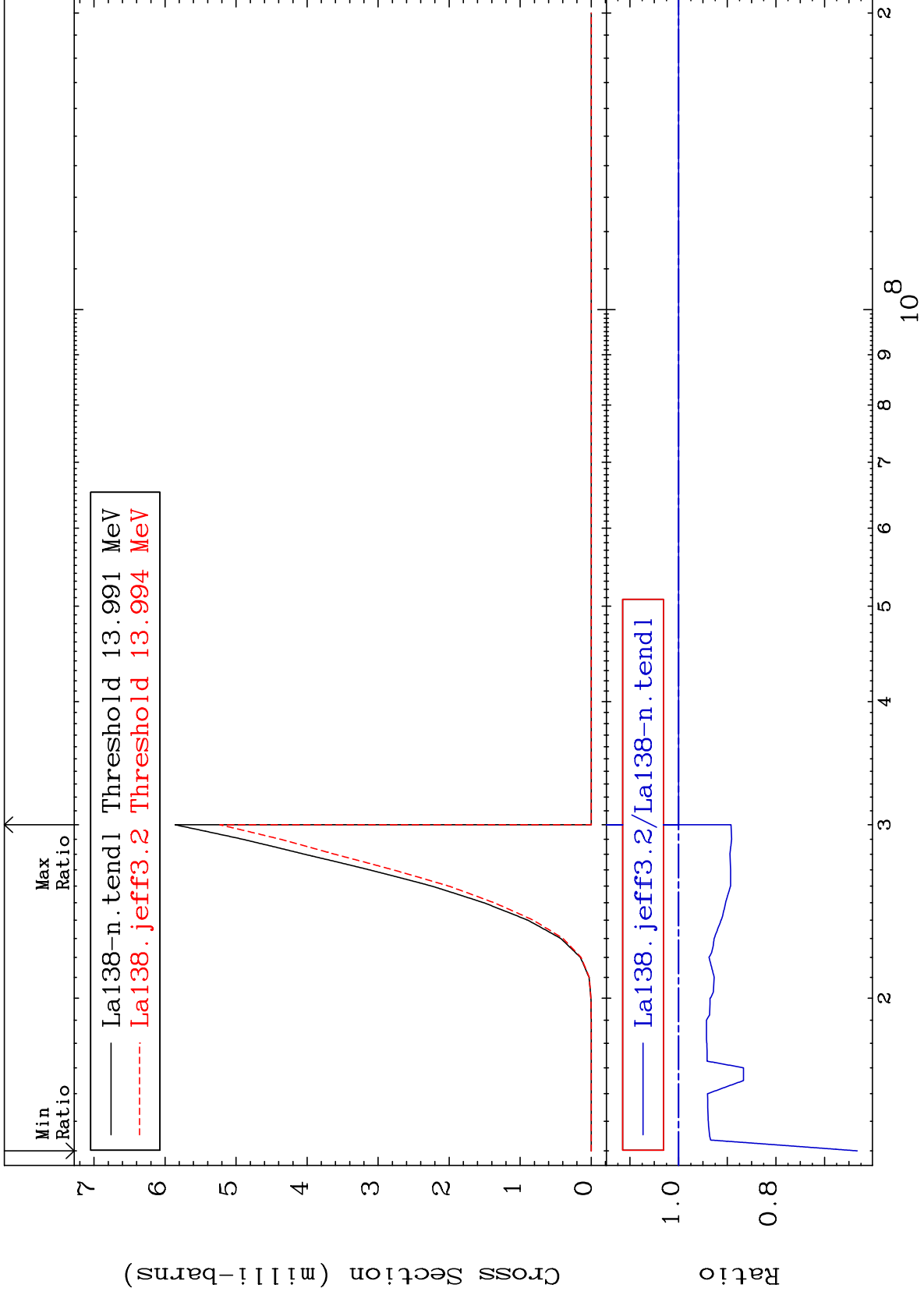


MAT 5725

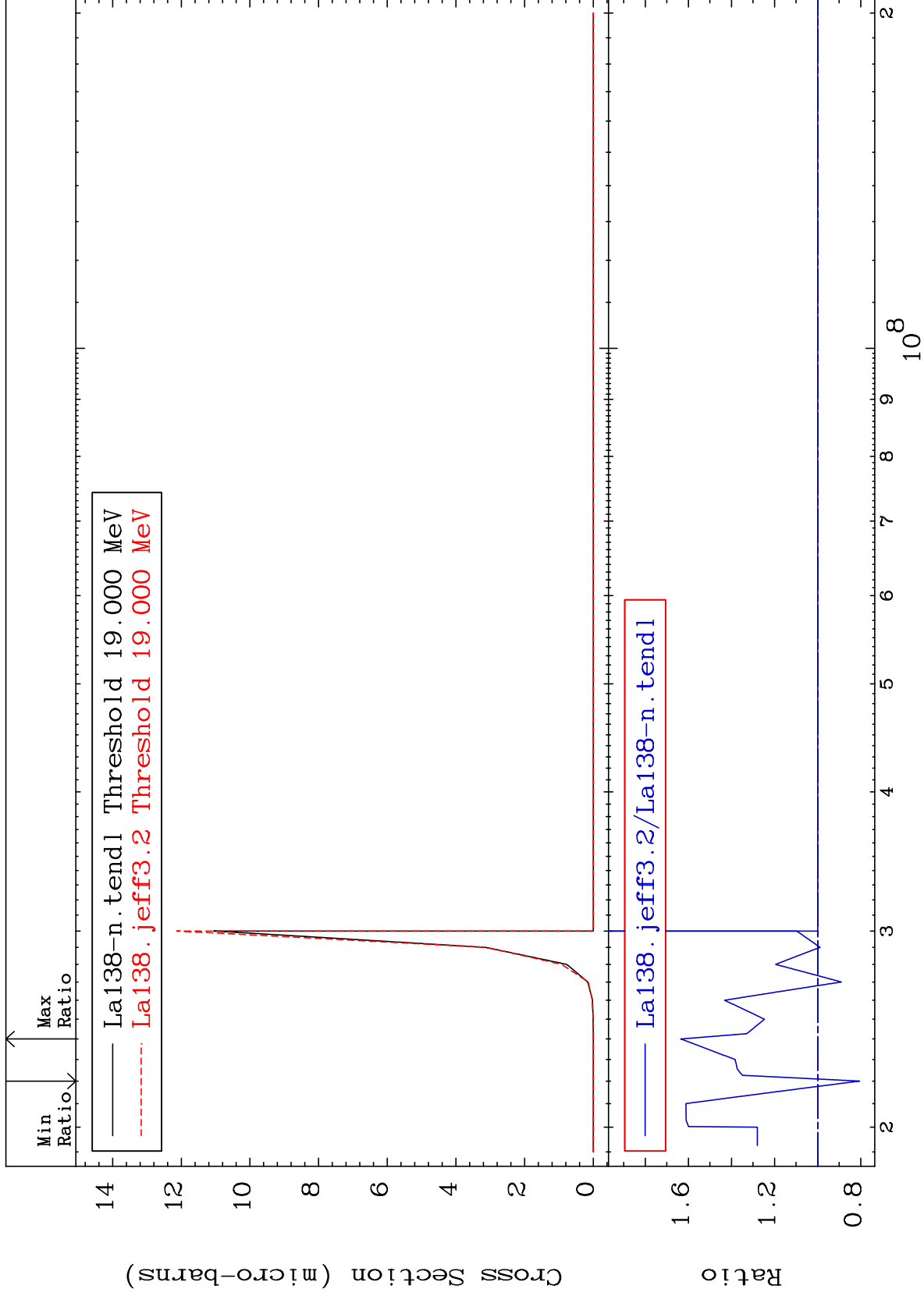
(n, n') t:56-Ba-135m2

57-La-138

Radionuclide Production Cross Section -36.73 To 0.000 %



Radionuclide Production Cross Section -19.43 To 63.54 %

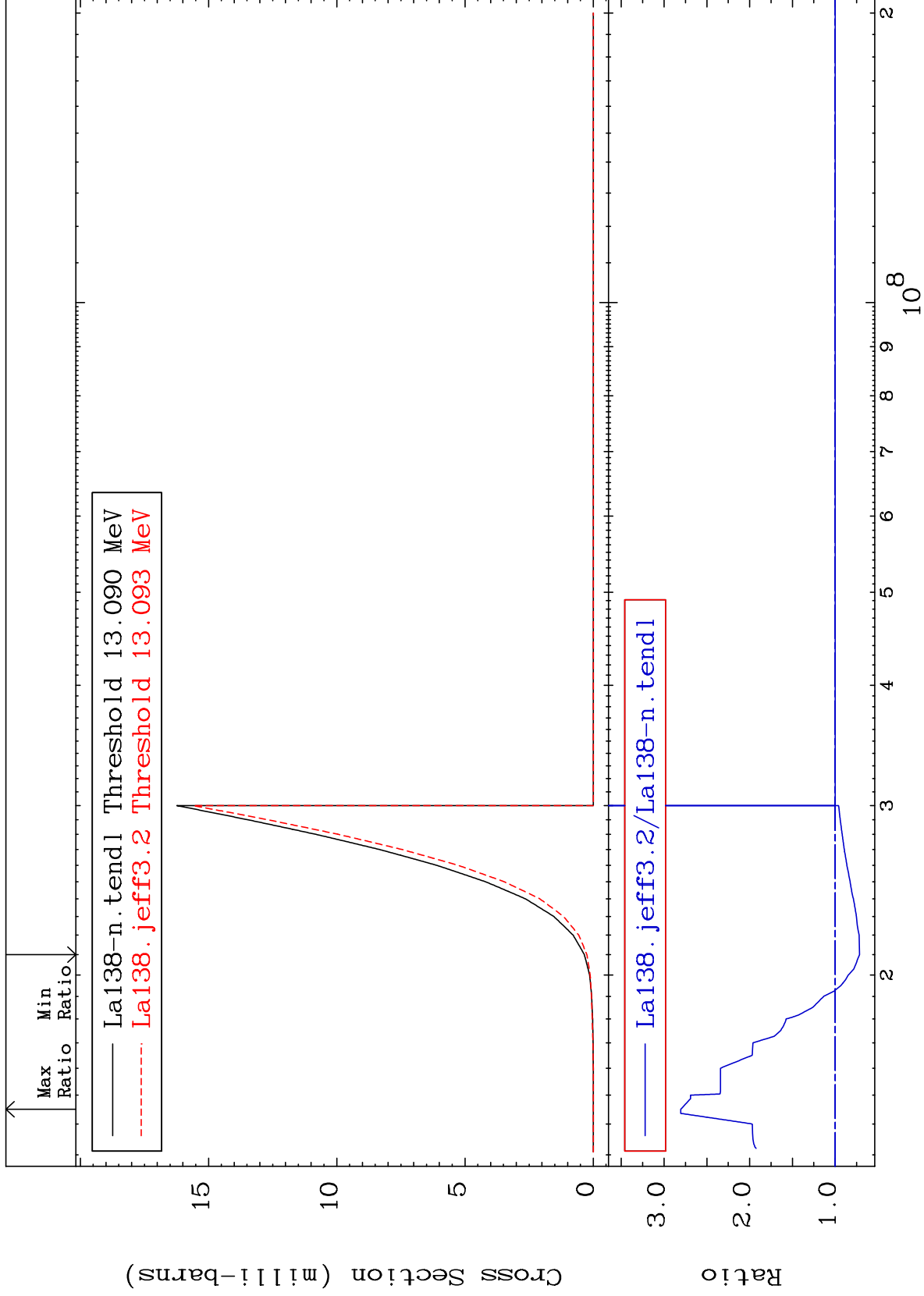


MAT 5725

(n,2n) p:56-Ba-136g

57-La-138

Radionuclide Production Cross Section -28.40 To 180.5 %

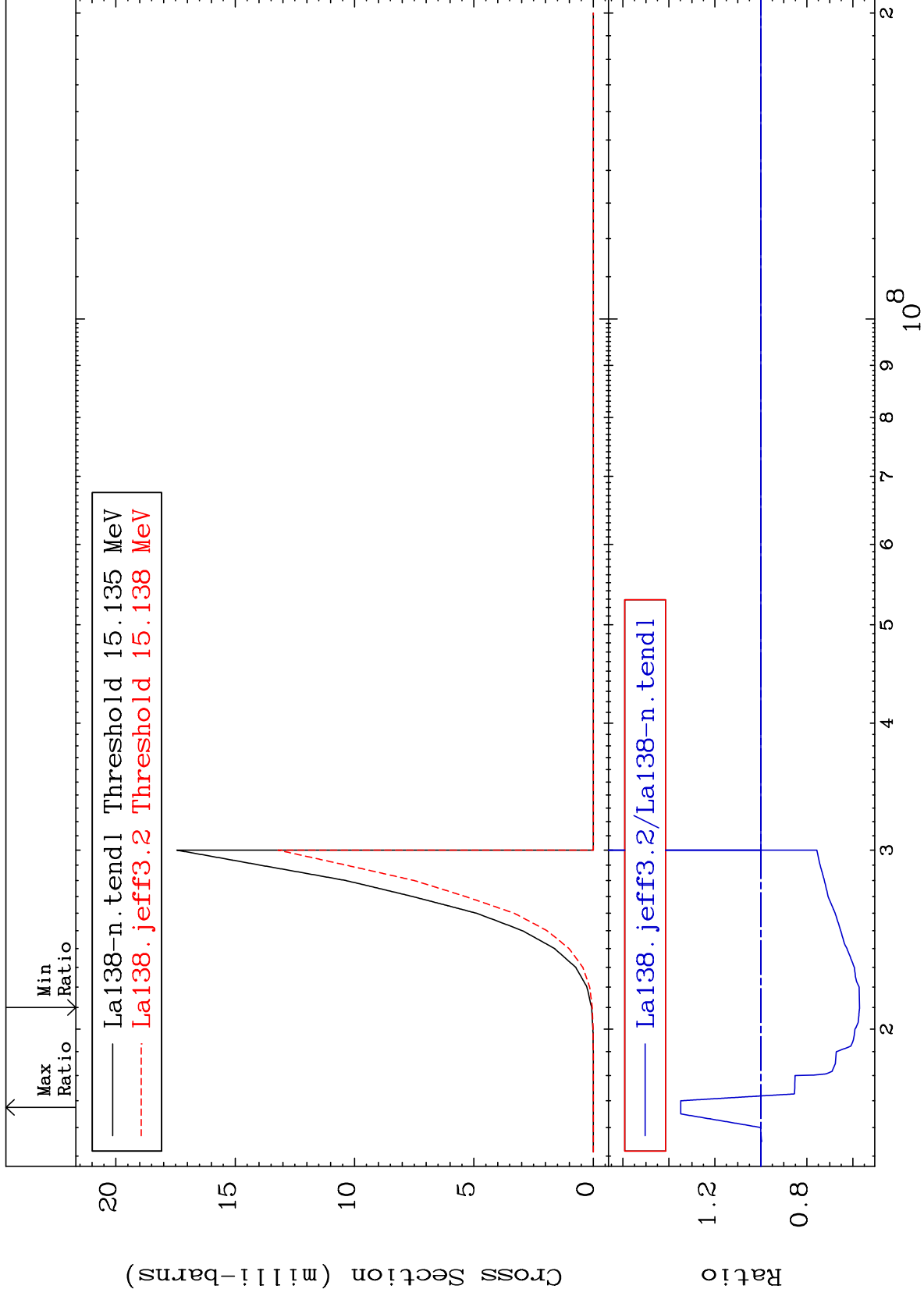


MAT 5725

(n,2n) p:56-Ba-136m5

57-La-138

Radionuclide Production Cross Section -42.93 To 34.84 %



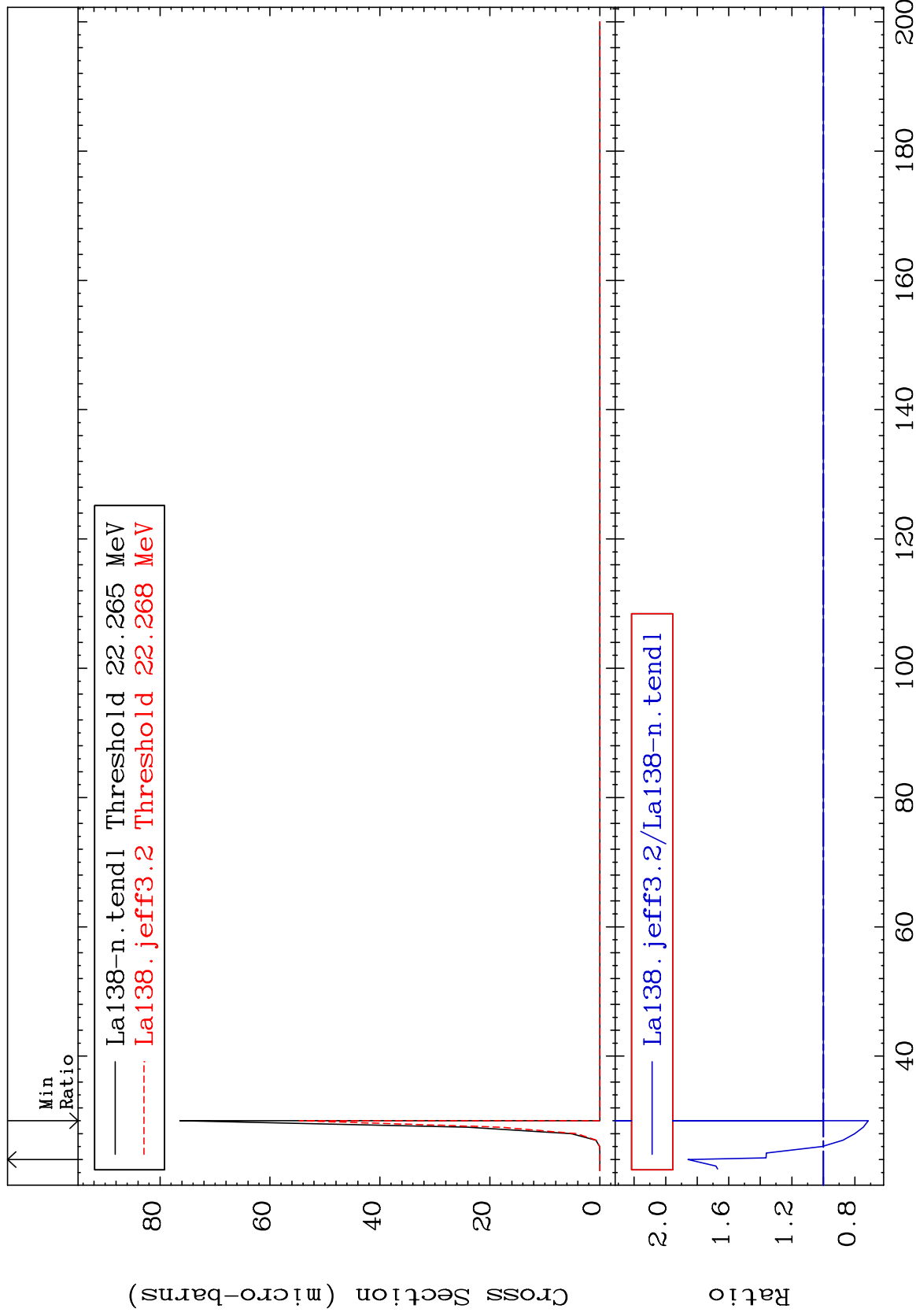
MAT 5725

(n,3n) p:56-Ba-135g

57-La-138

Radionuclide Production Cross Section

-28.52 To 85.80 %



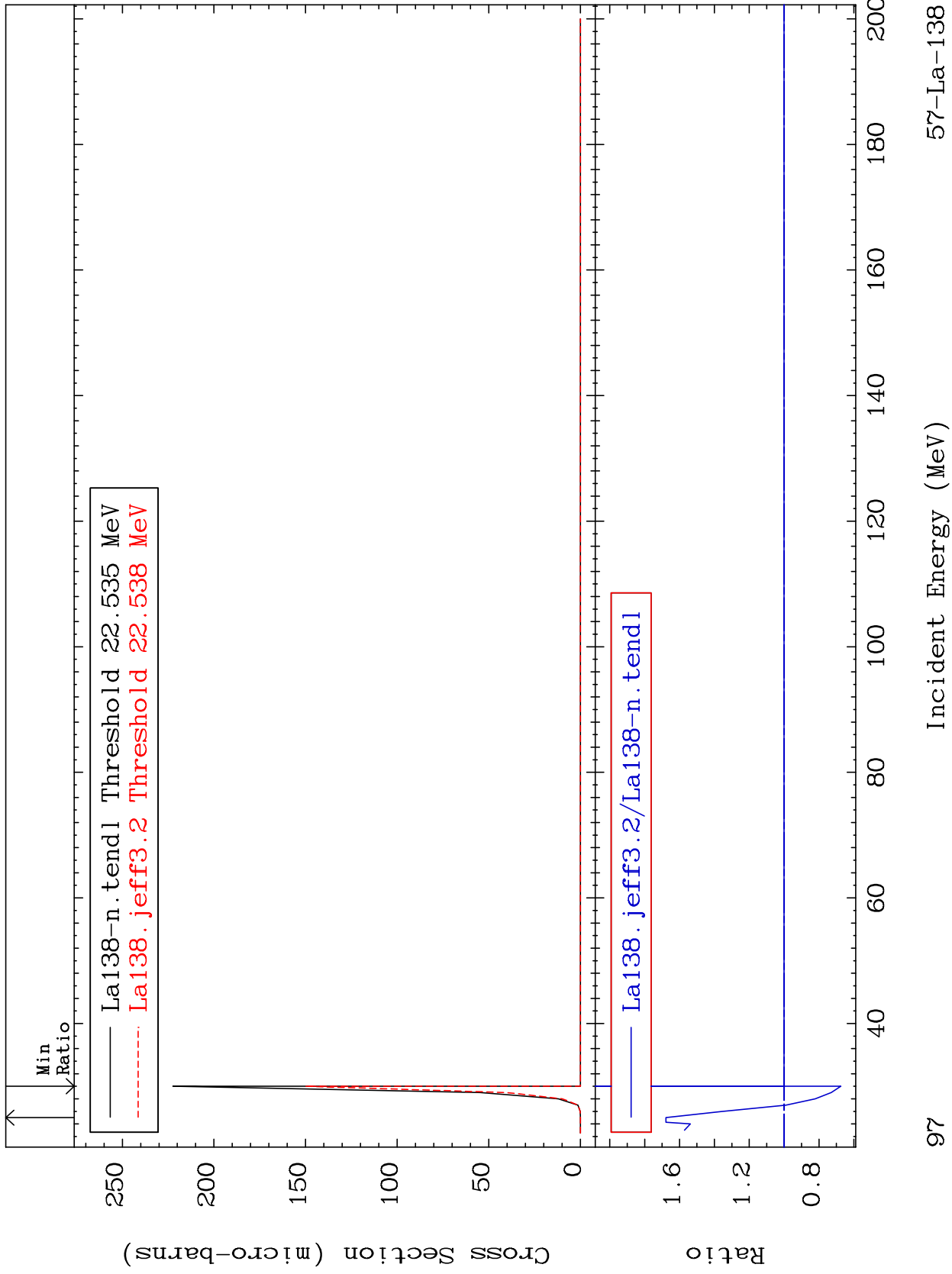
MAT 5725

(n, 3n) p:56-Ba-135m2

57-La-138

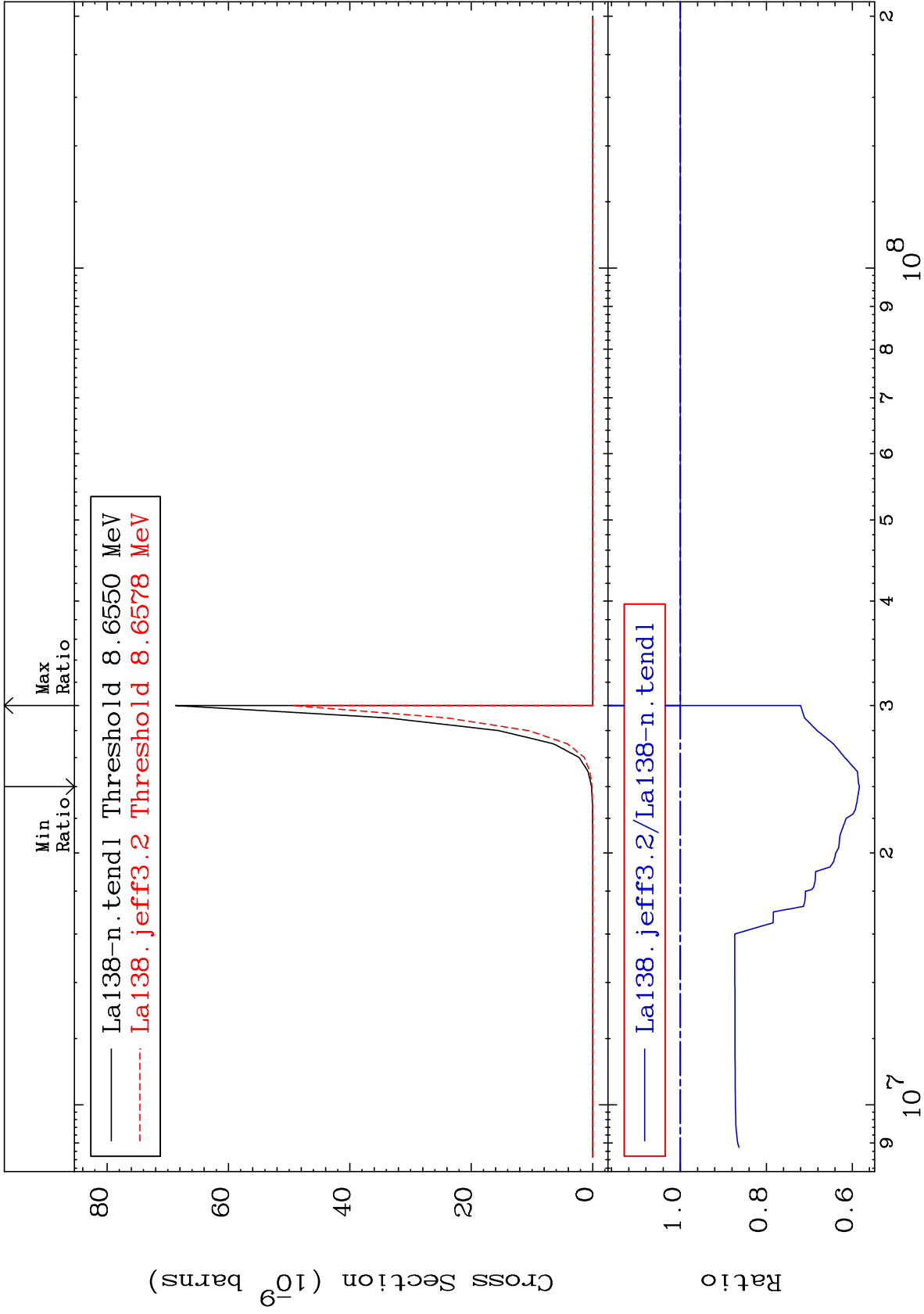
Radionuclide Production Cross Section

-32.54 To 67.78 %



MAT 5725

(n, n') p α :54-Xe-133g 57-La-138
Radionuclide Production Cross Section -41.66 To 0.000 %



98

Incident Energy (eV)

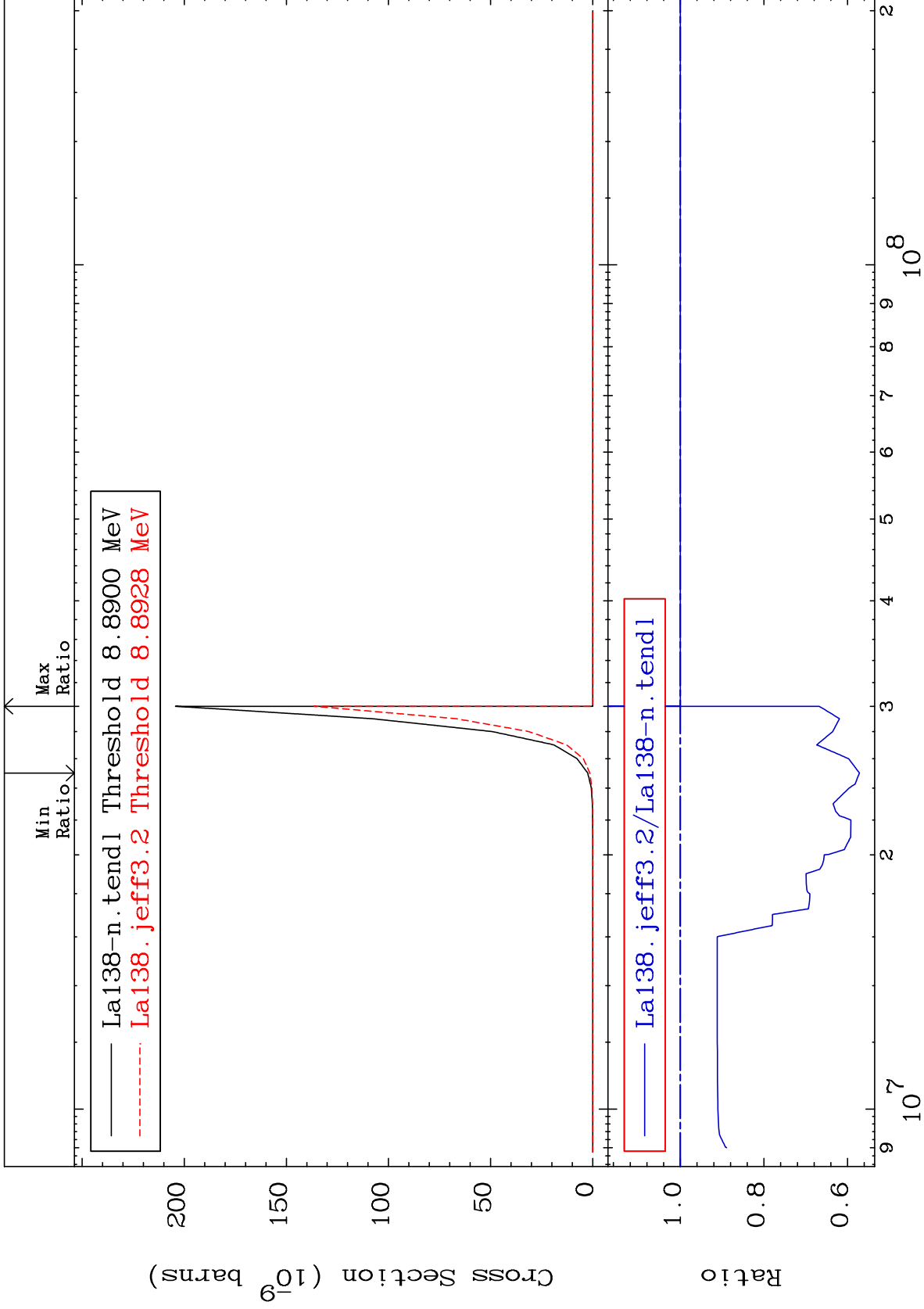
57-La-138

MAT 5725

(n, n') p α :54-Xe-133m1

57-La-138

Radionuclide Production Cross Section -42.84 To 0.000 %



99

Incident Energy (eV)

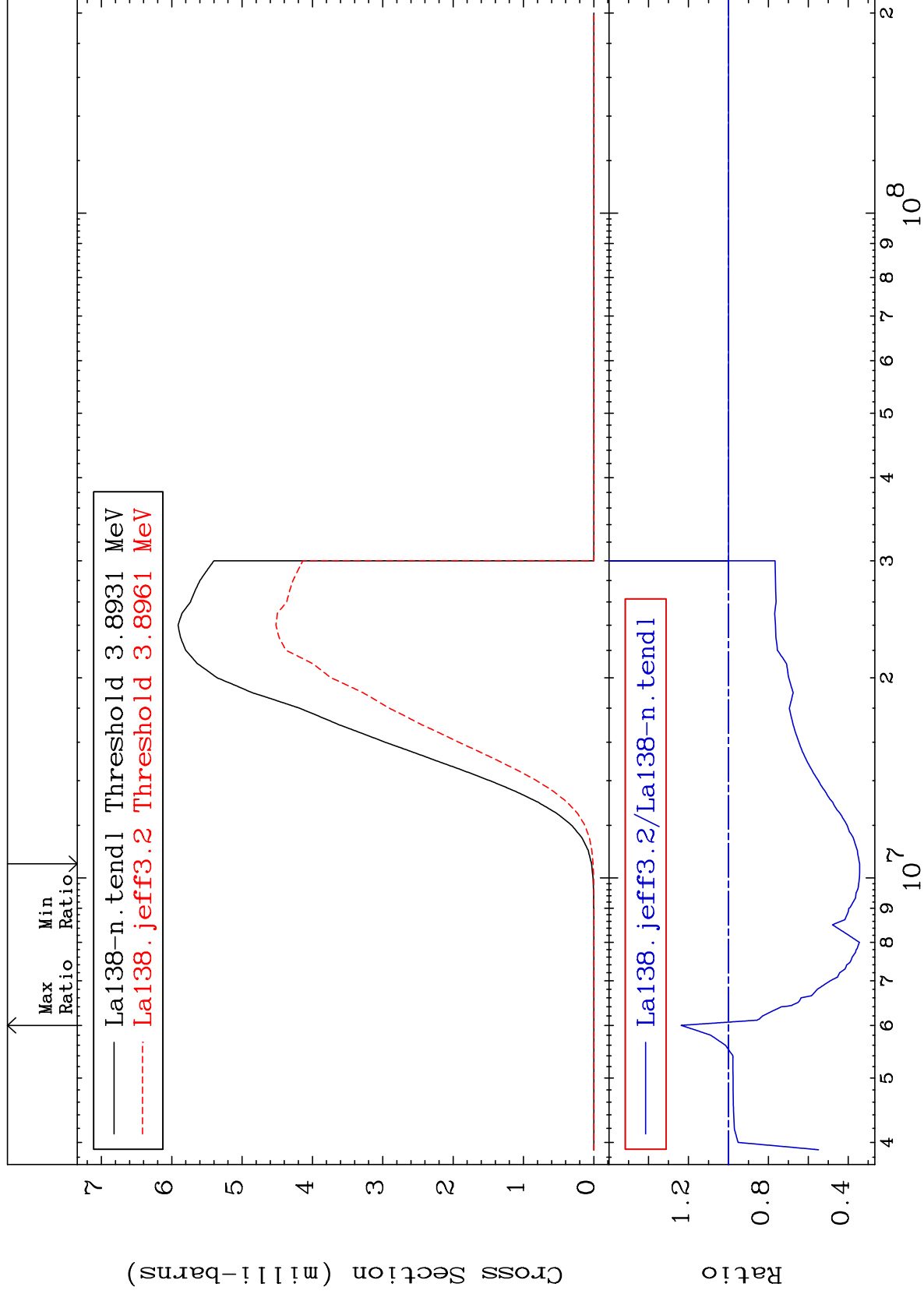
57-La-138

MAT 5725

(n, d) : 56-Ba-137g

57-La-138

Radionuclide Production Cross Section -65.75 To 23.67 %



100

Incident Energy (eV)

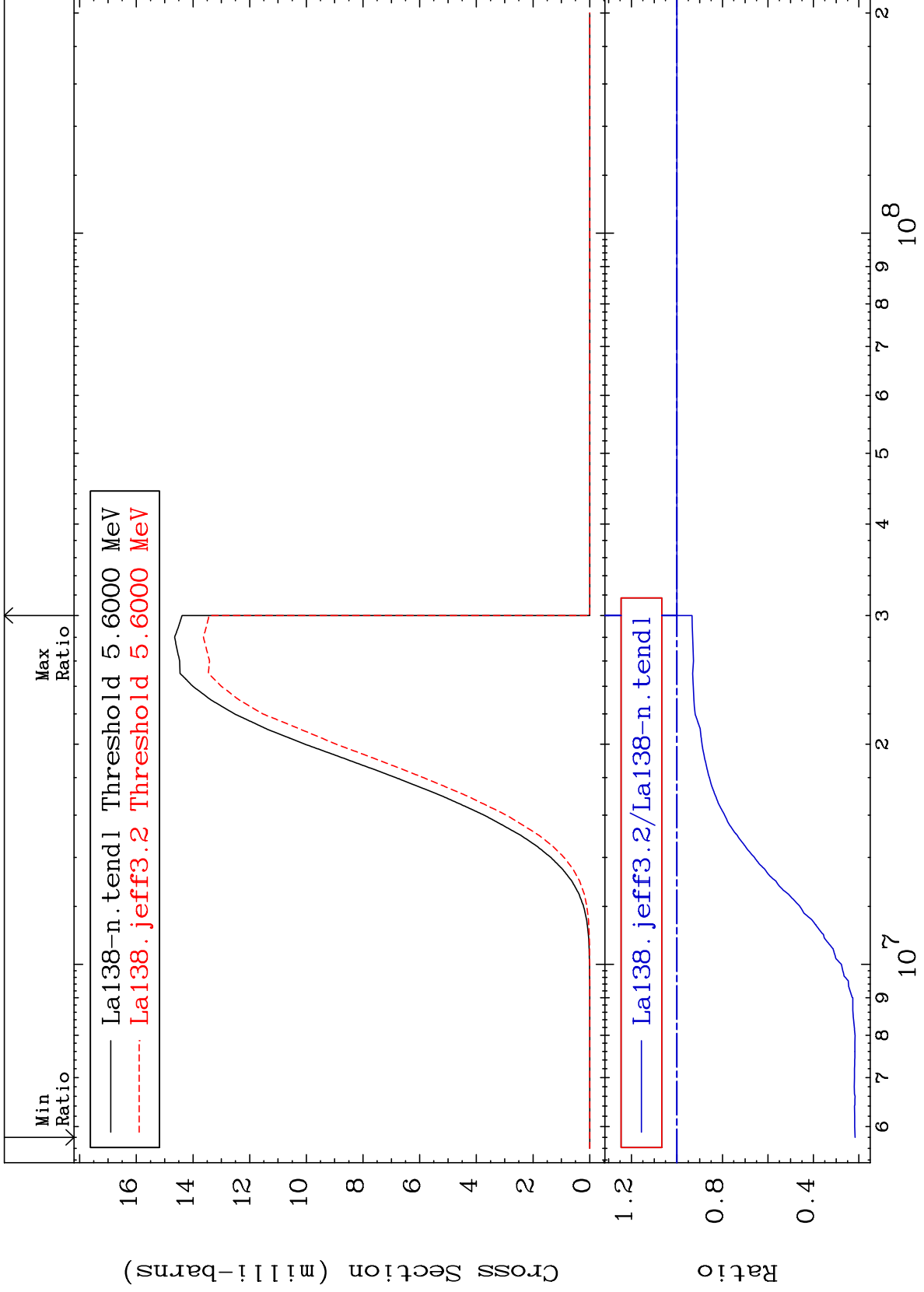
57-La-138

MAT 5725

(n, d) : 56-Ba-137m2

57-La-138

Radionuclide Production Cross Section -78.32 To 0.000 %



101

Incident Energy (eV)

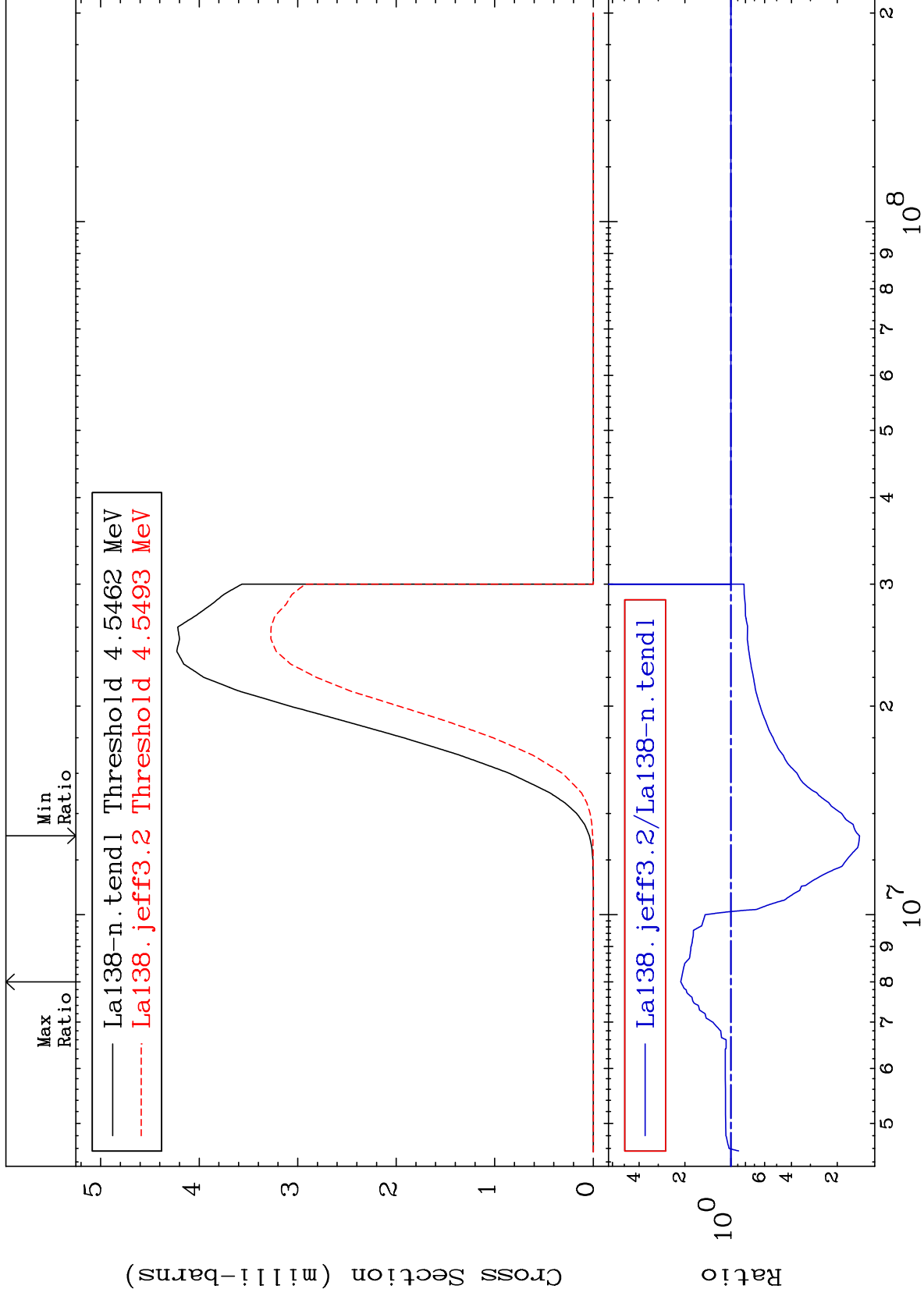
57-La-138

MAT 5725

(n, t) : 56-Ba-136g

57-La-138

Radionuclide Production Cross Section -85.74 To 113.2 %



102

57-La-138

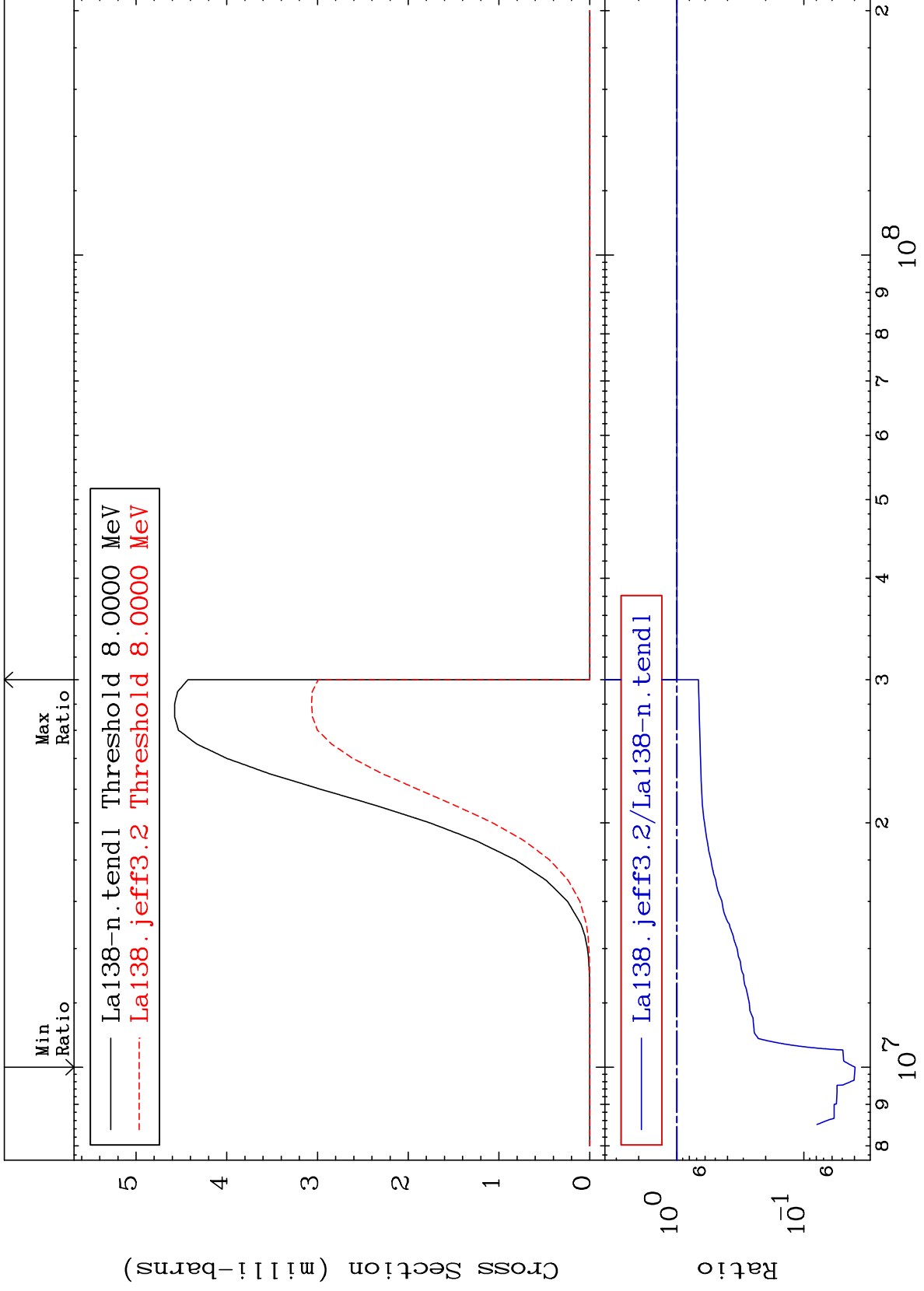
57-La-138

MAT 5725

(n, t) : 56-Ba-136m5

57-La-138

Radionuclide Production Cross Section -96.04 To 0.000 %



103

Incident Energy (eV)

57-La-138

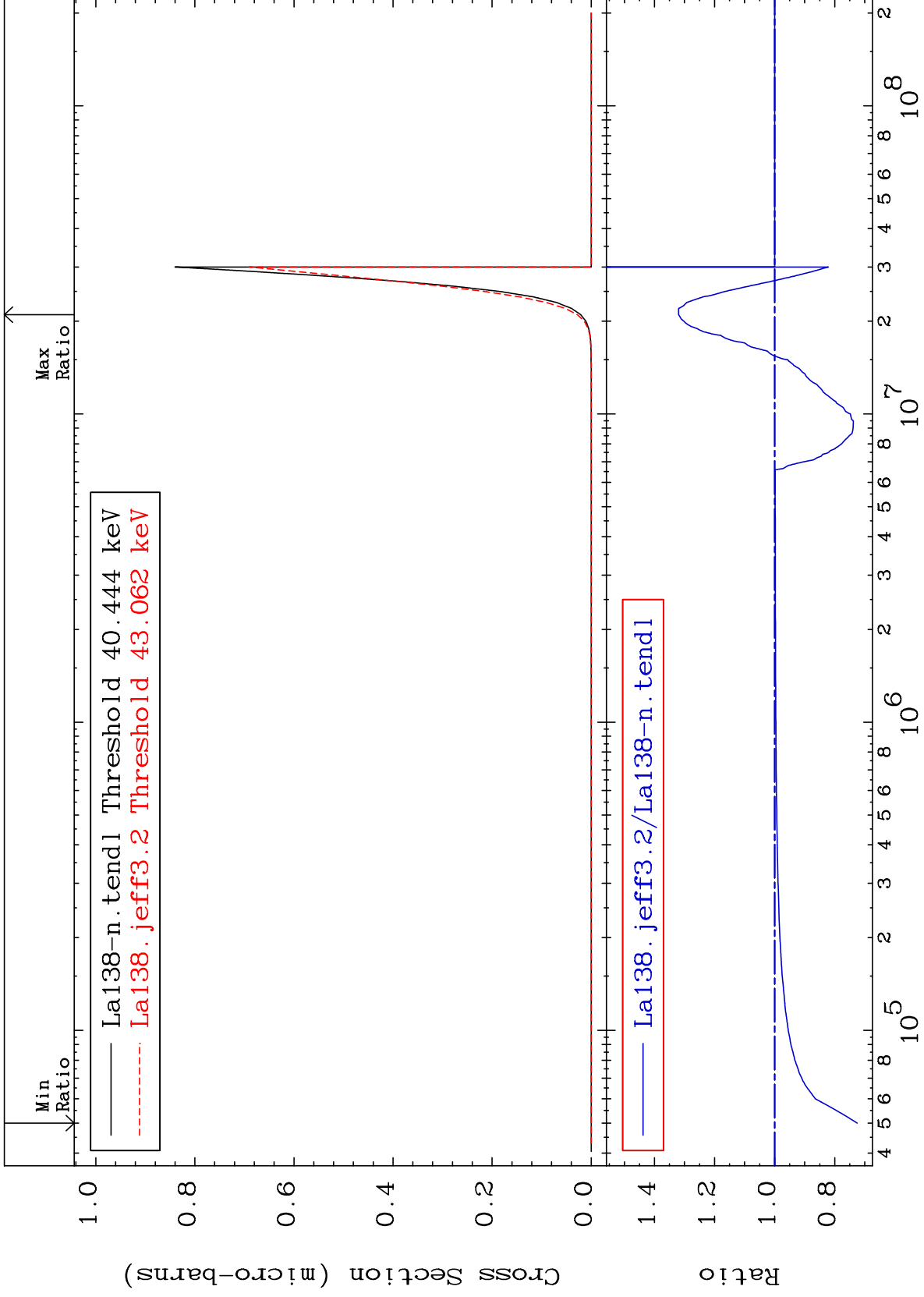
MAT 5725

(n, p) α :54-Xe-134g

57-La-138

Radionuclide Production Cross Section

-27.49 To 31.96 %



104

Incident Energy (eV)

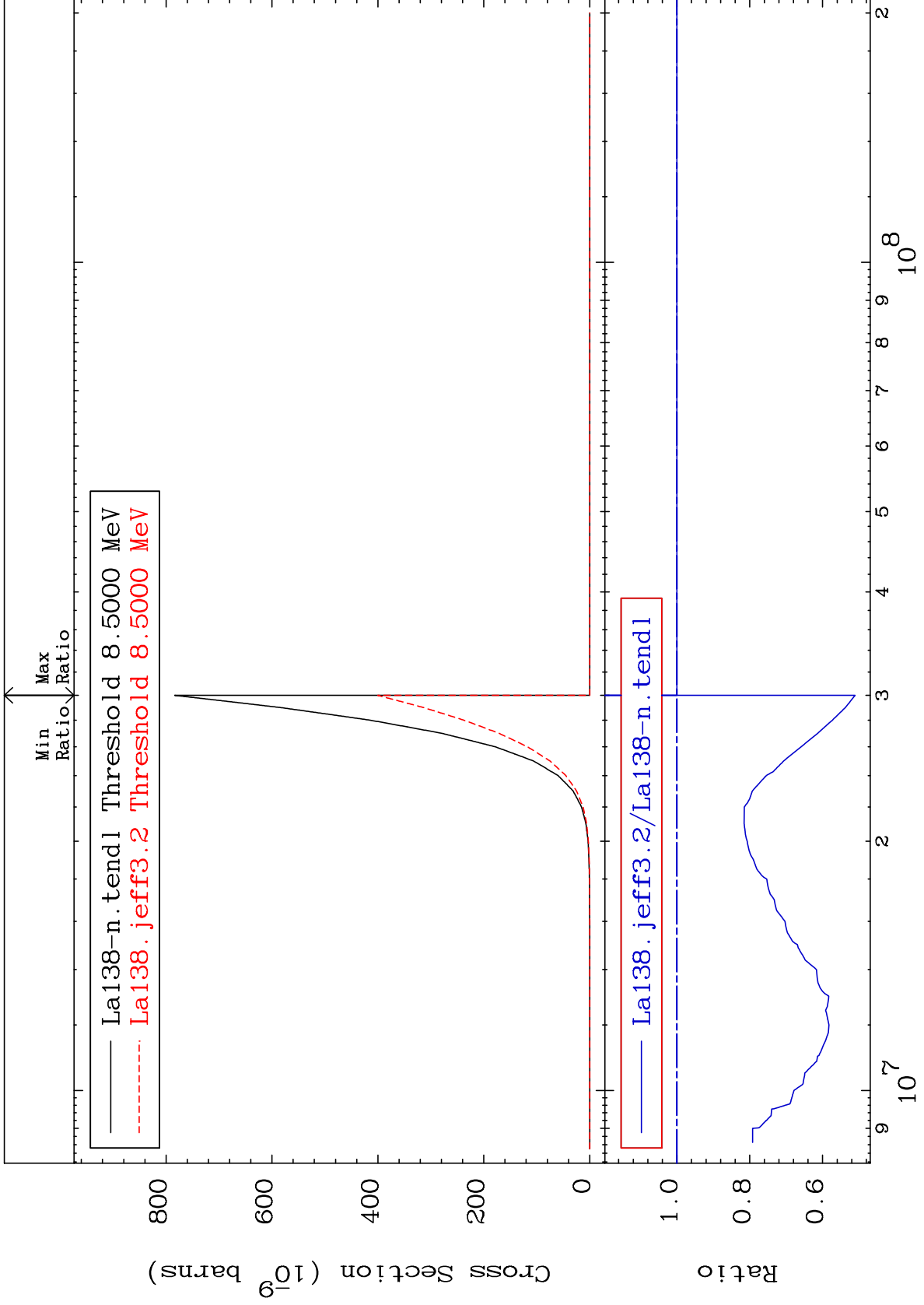
57-La-138

MAT 5725

(n, p) α :54-Xe-134m7

57-La-138

Radionuclide Production Cross Section -48.92 To 0.000 %



105

Incident Energy (eV)

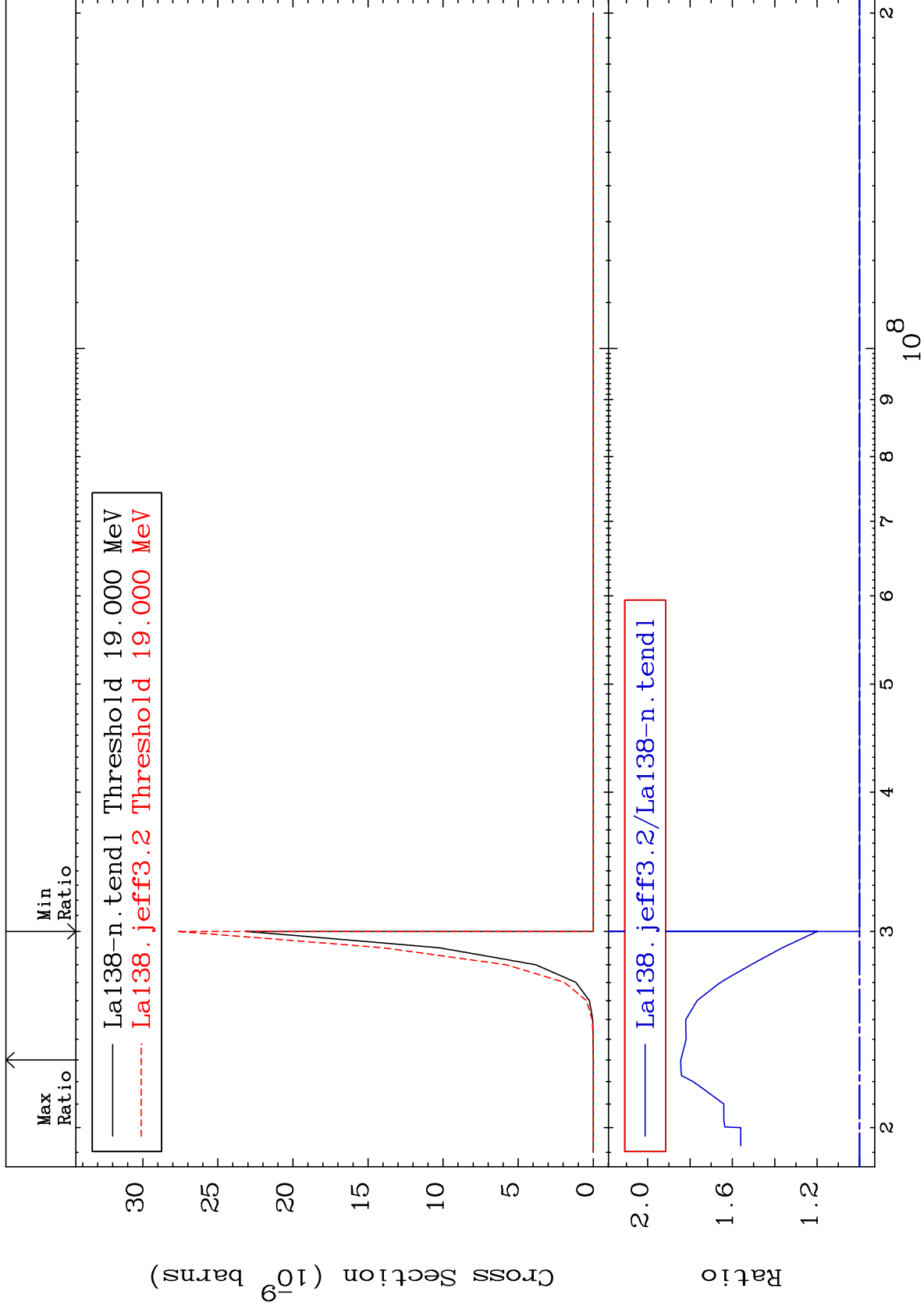
57-La-138

MAT 5725

(n,p) t:55-Cs-135m10

57-La-138

Radionuclide Production Cross Section 0.000 To 84.35 %



107

Incident Energy (eV)

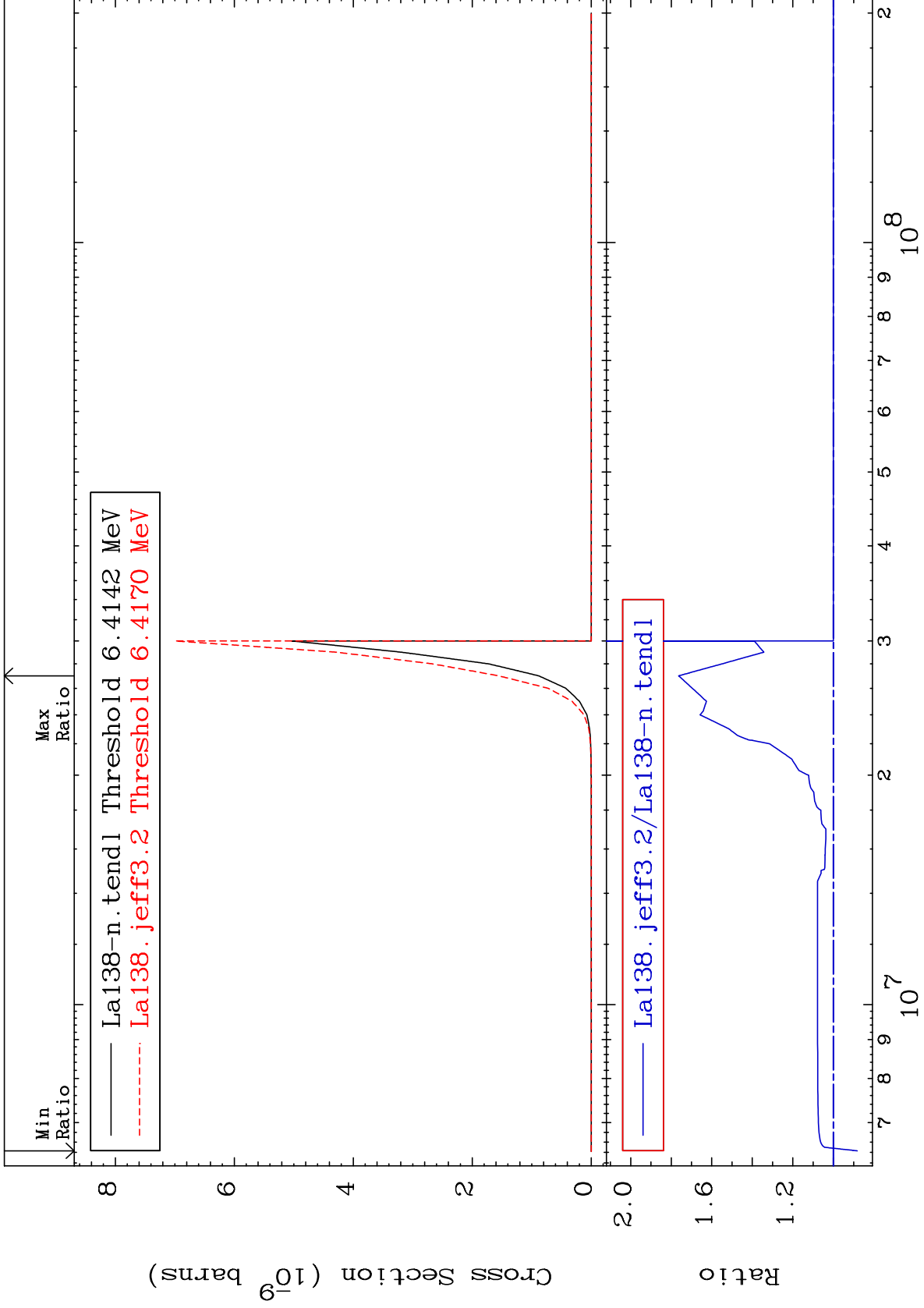
57-La-138

MAT 5725

(n, d) α :54-Xe-133g

57-La-138

Radionuclide Production Cross Section -11.79 To 76.34 %



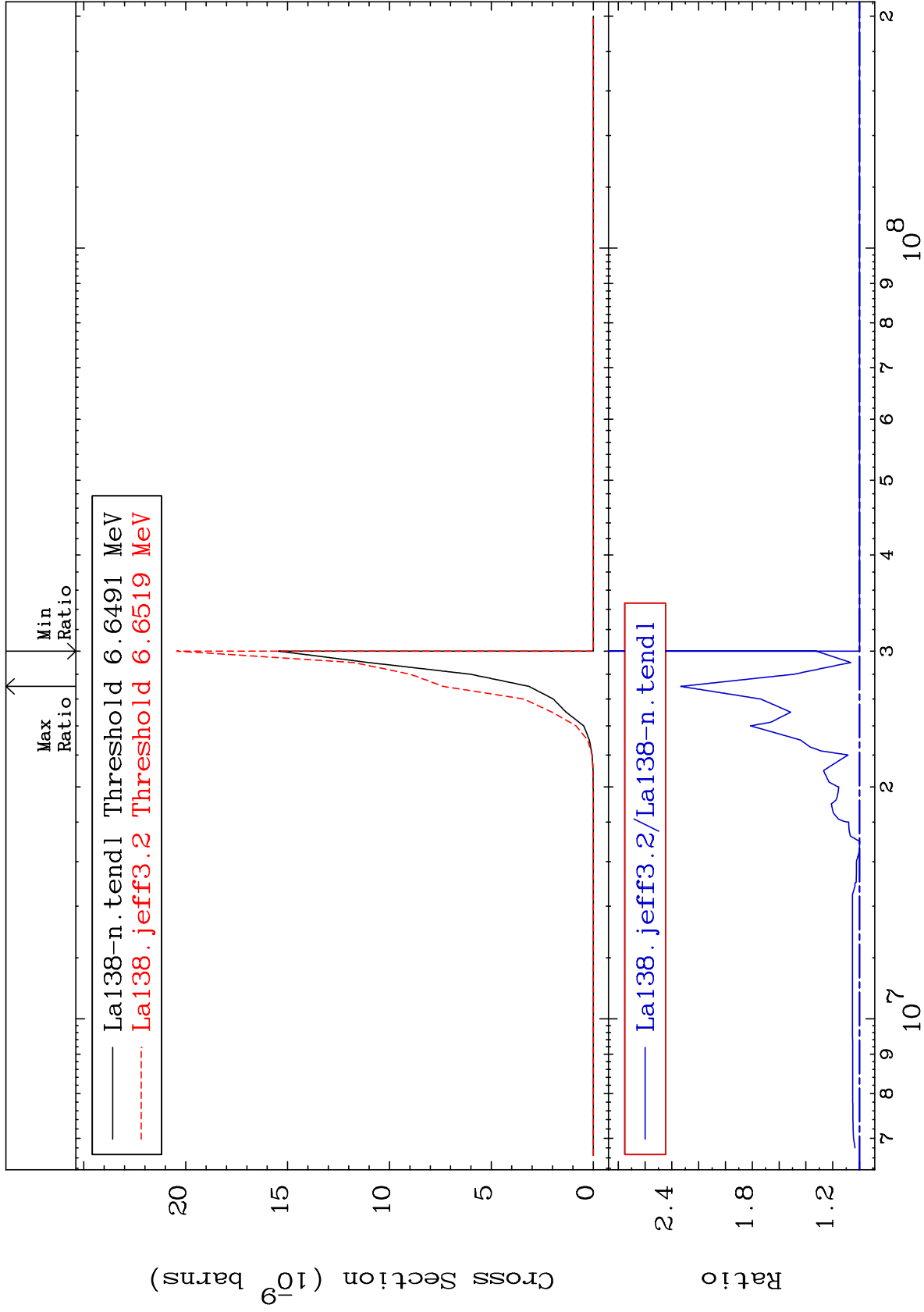
108

Incident Energy (eV)

57-La-138

MAT 5725

(n, d) α :54-Xe-133m1 57-La-138
Radionuclide Production Cross Section 0.000 To 133.3 %



109

Incident Energy (eV)

57-La-138