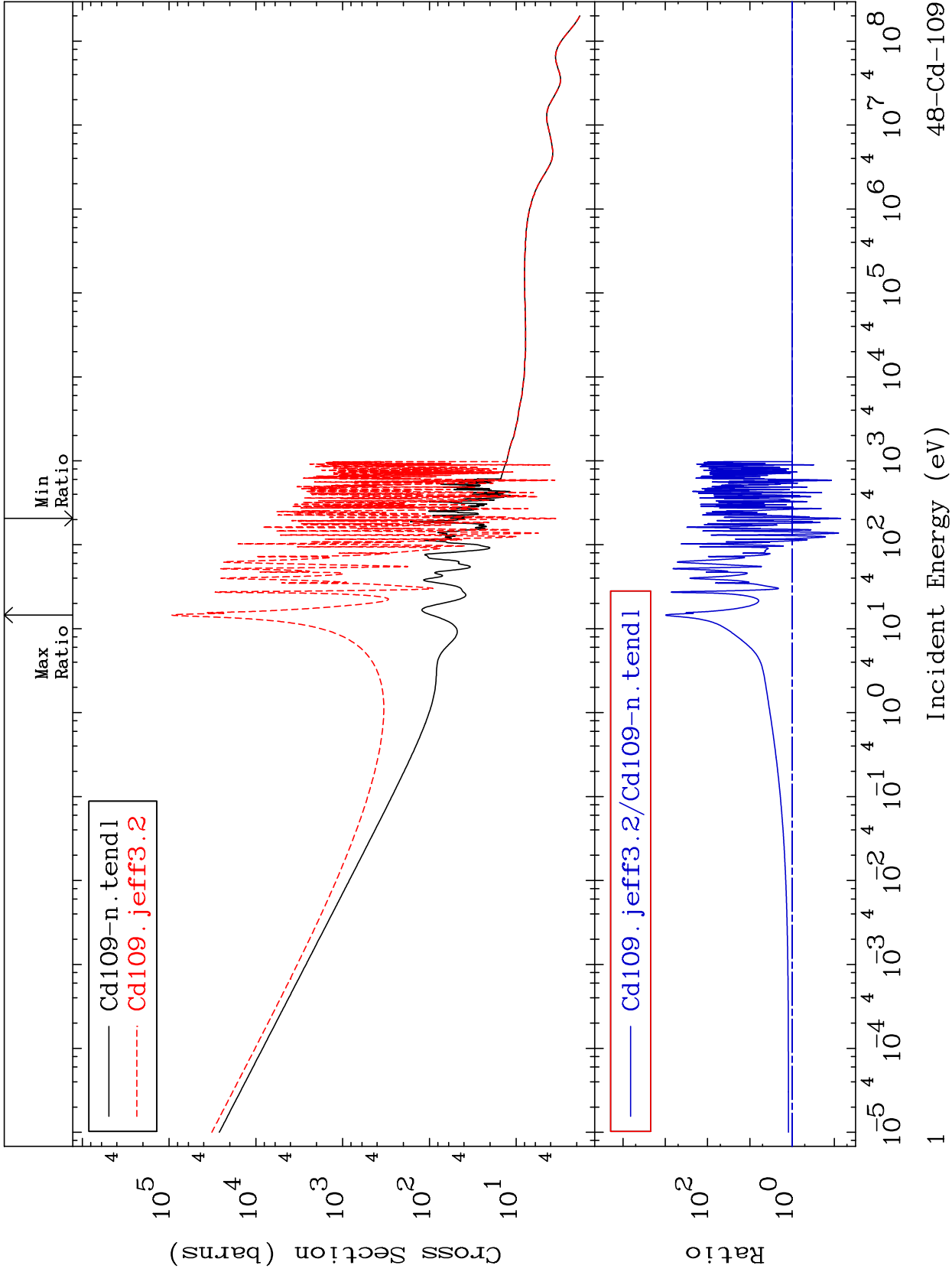


MAT 4834

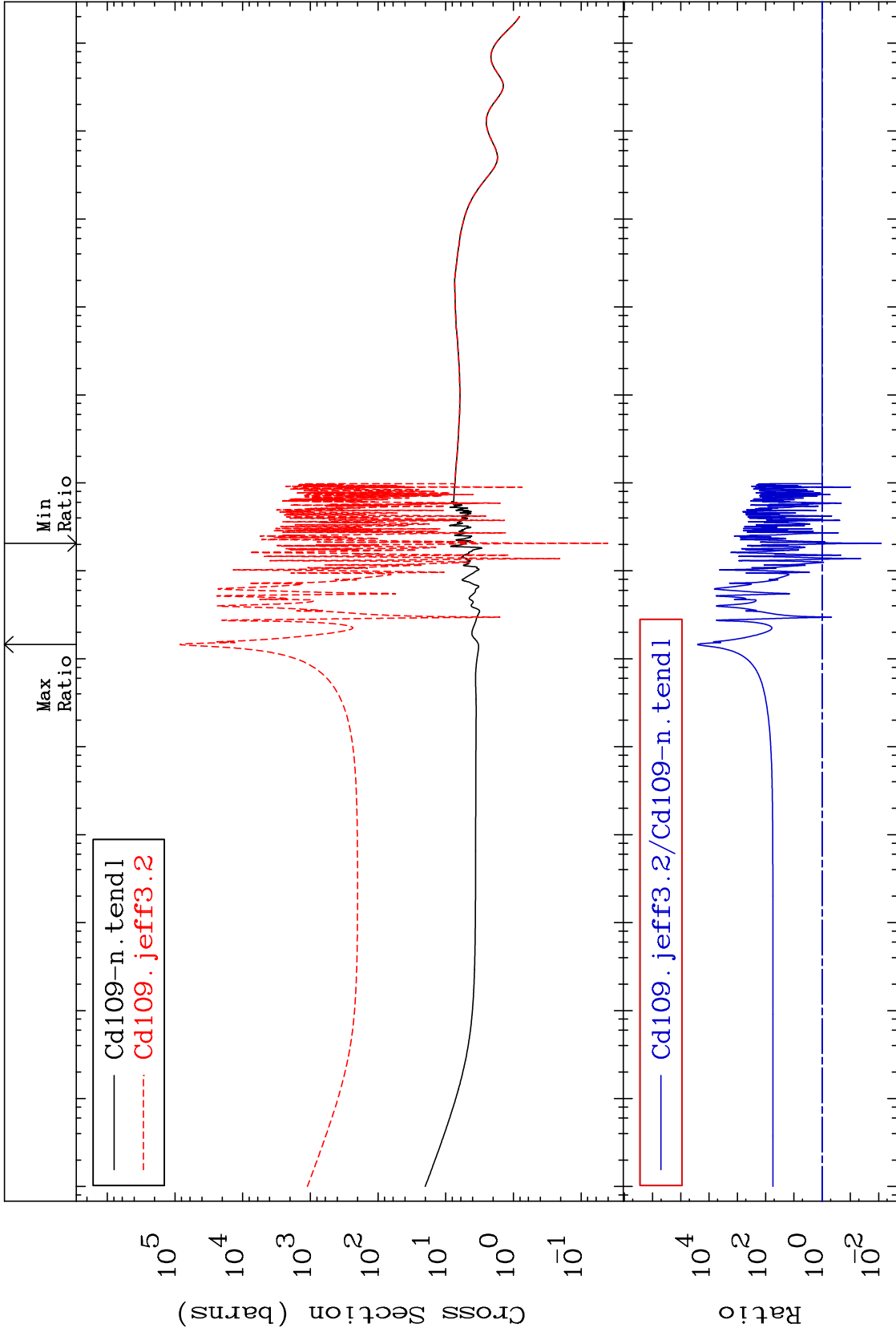
Total Cross Section
48-Cd-109
-92.93 To 9999. %



48-Cd-109

MAT 4834

Elastic Cross Section
48-Cd-109
-99.18 To 9999. %



2

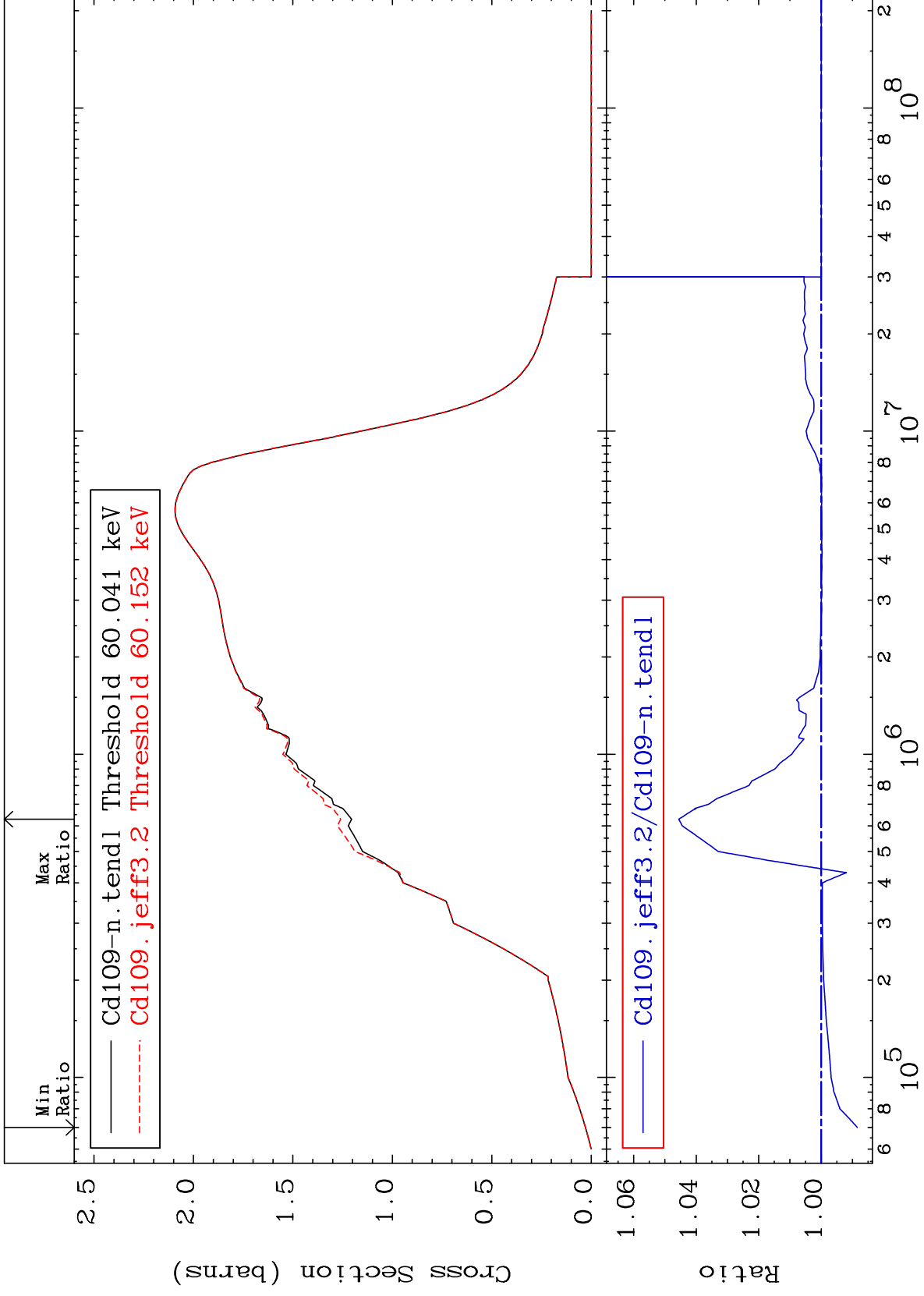
Incident Energy (eV)

48-Cd-109

MAT 4834

Inelastic
Cross Section

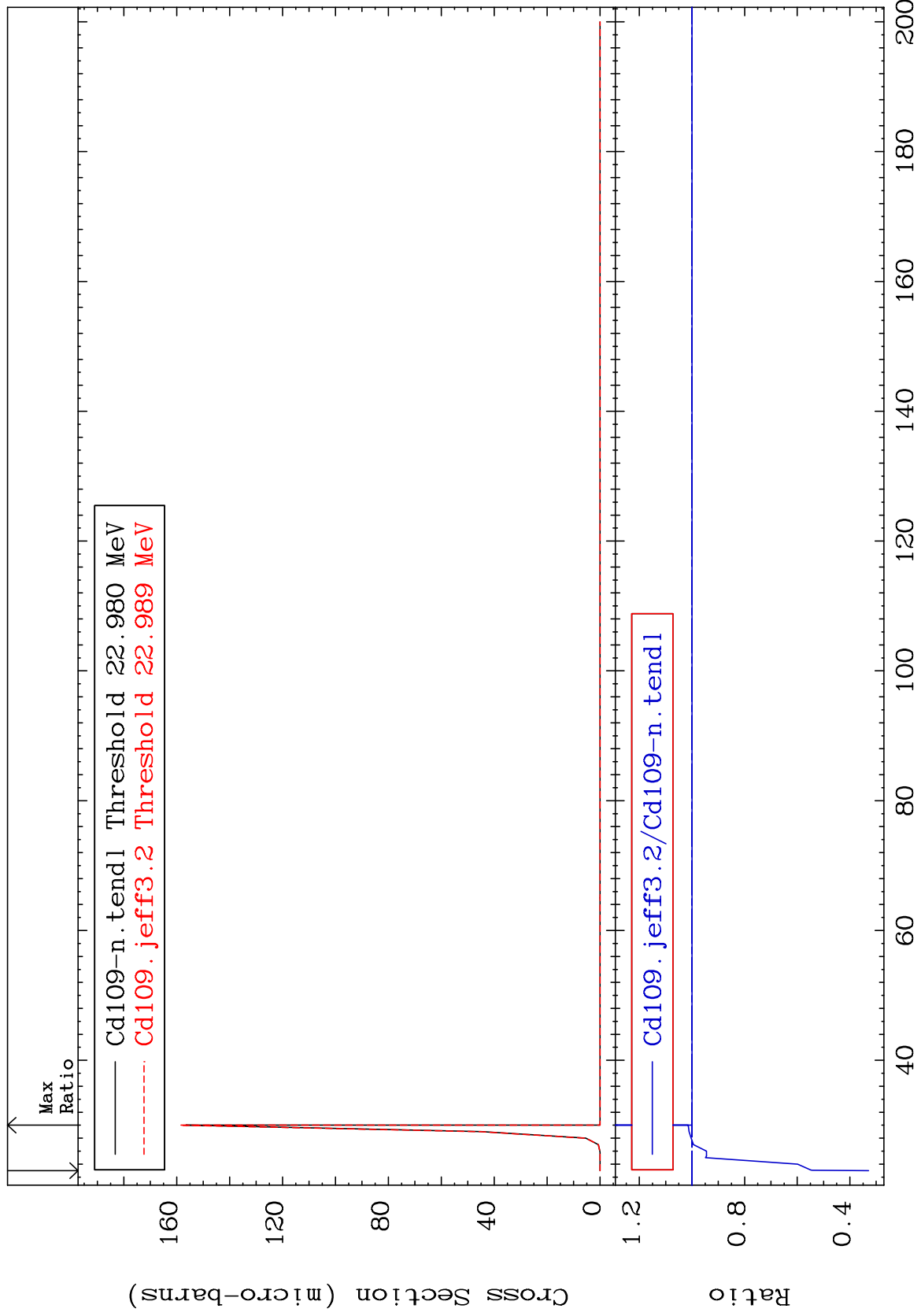
48-Cd-109
-1.154 To 4.561 %



MAT 4834

(n,2n) d
Cross Section

48-Cd-109
-67.10 To 1.416 %



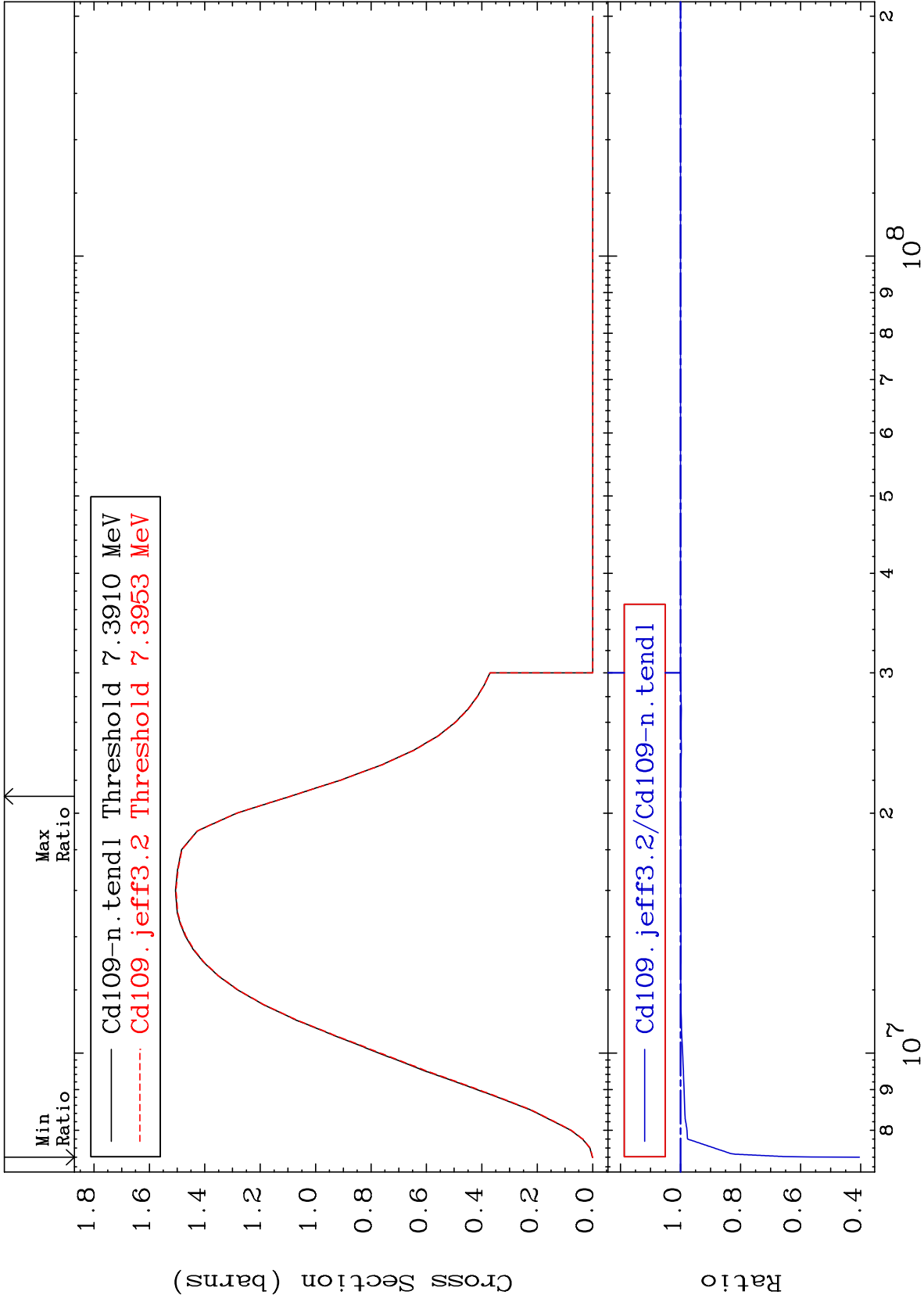
MAT 4834

(n,2n)

48-Cd-109

Cross Section

-59.61 To 0.033 %



5

Incident Energy (eV)

48-Cd-109

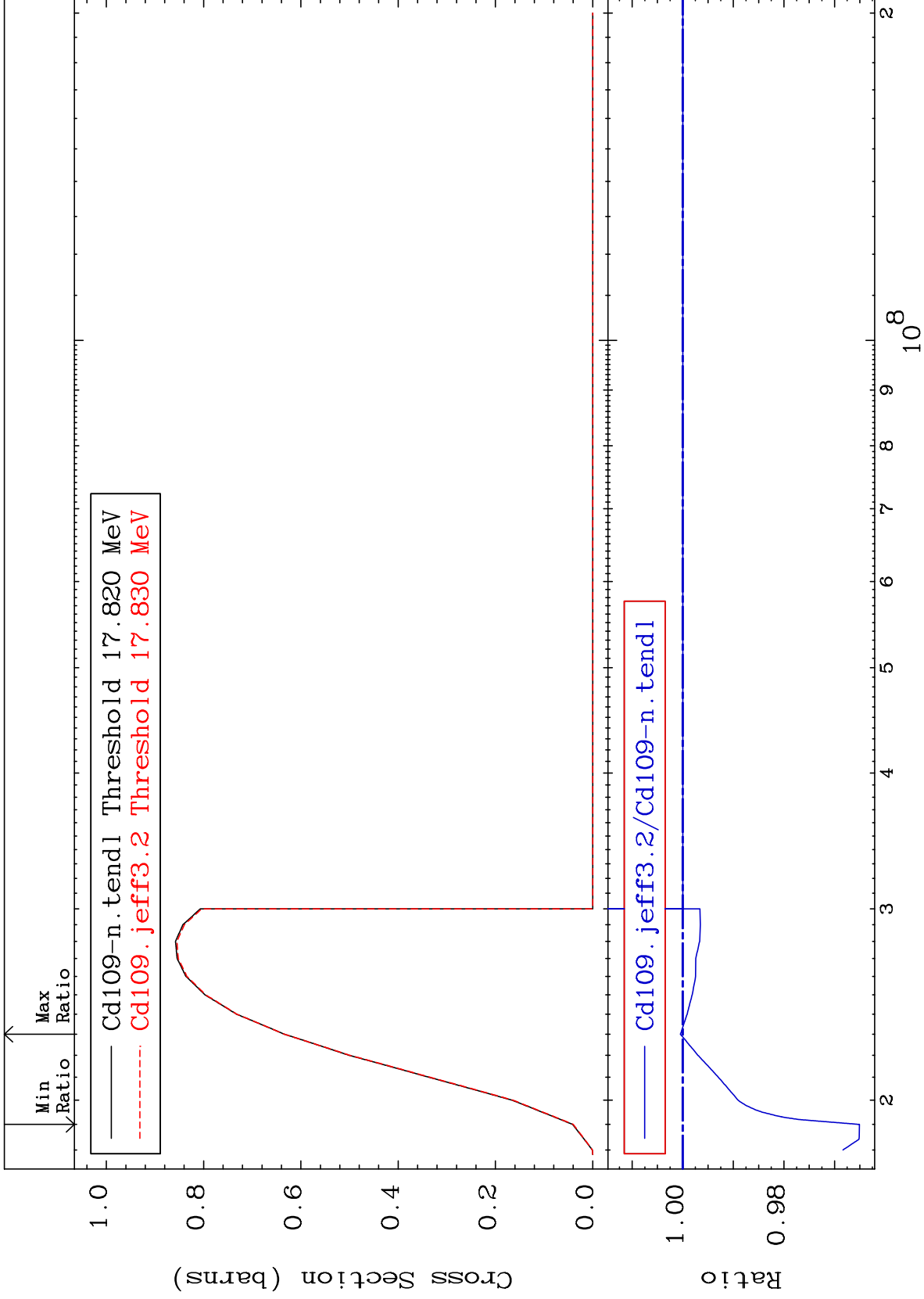
MAT 4834

(n,3n)

48-Cd-109

Cross Section

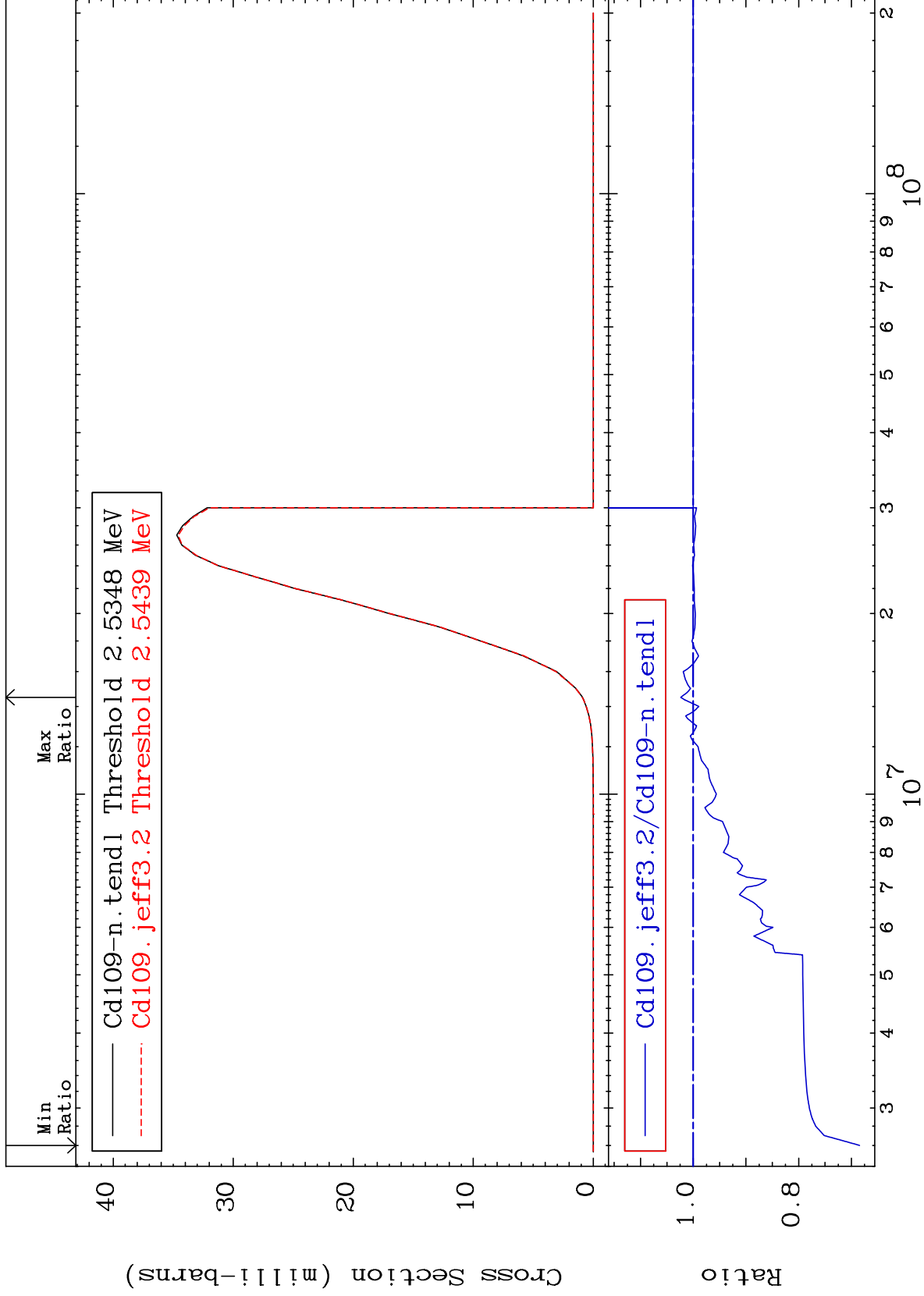
-3.492 To 0.047 %



MAT 4834

(n, n') α
Cross Section

48-Cd-109
-31.54 To 2.369 %



7

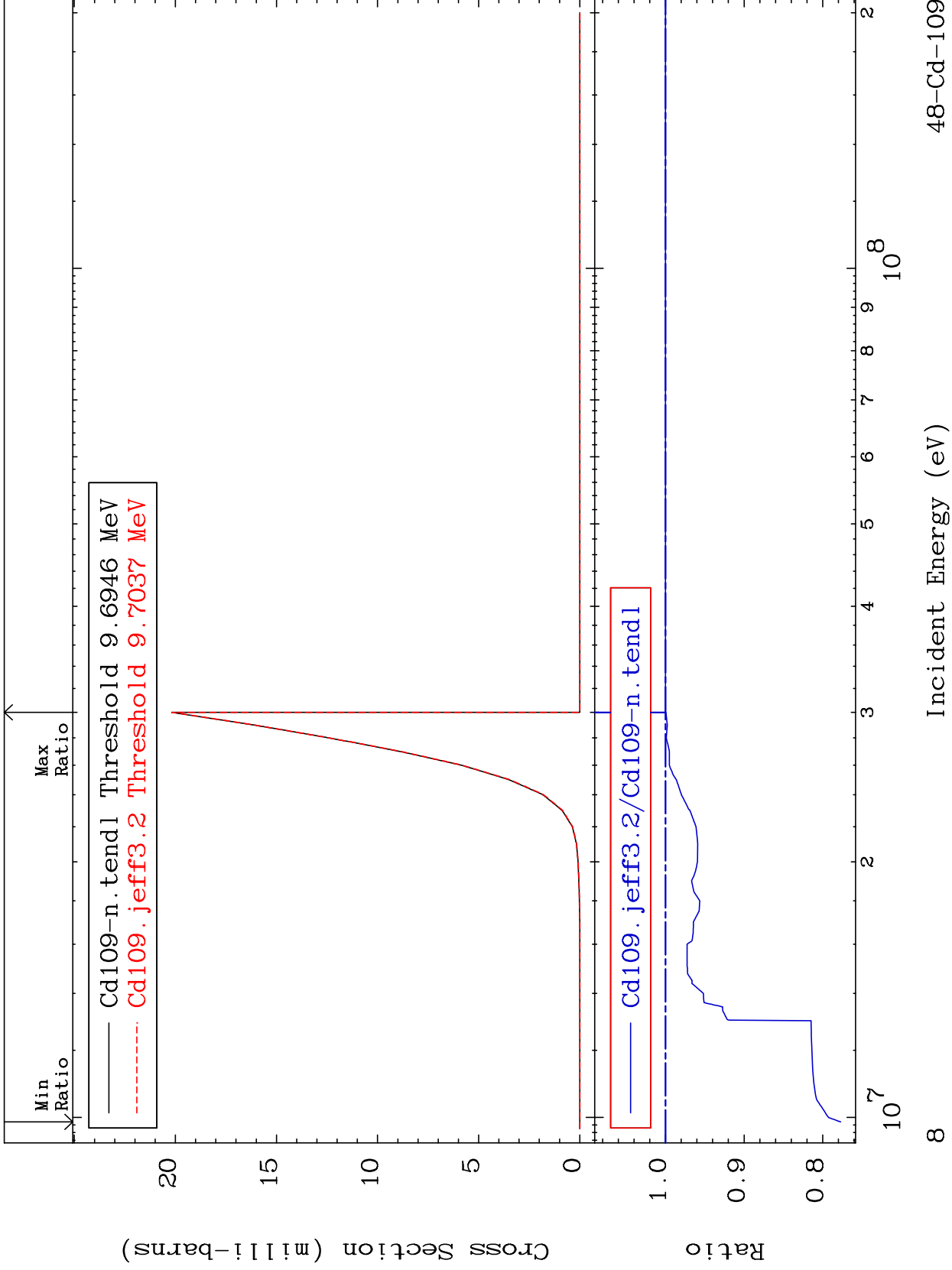
Incident Energy (eV)

48-Cd-109

MAT 4834

(n,2n) α
Cross Section

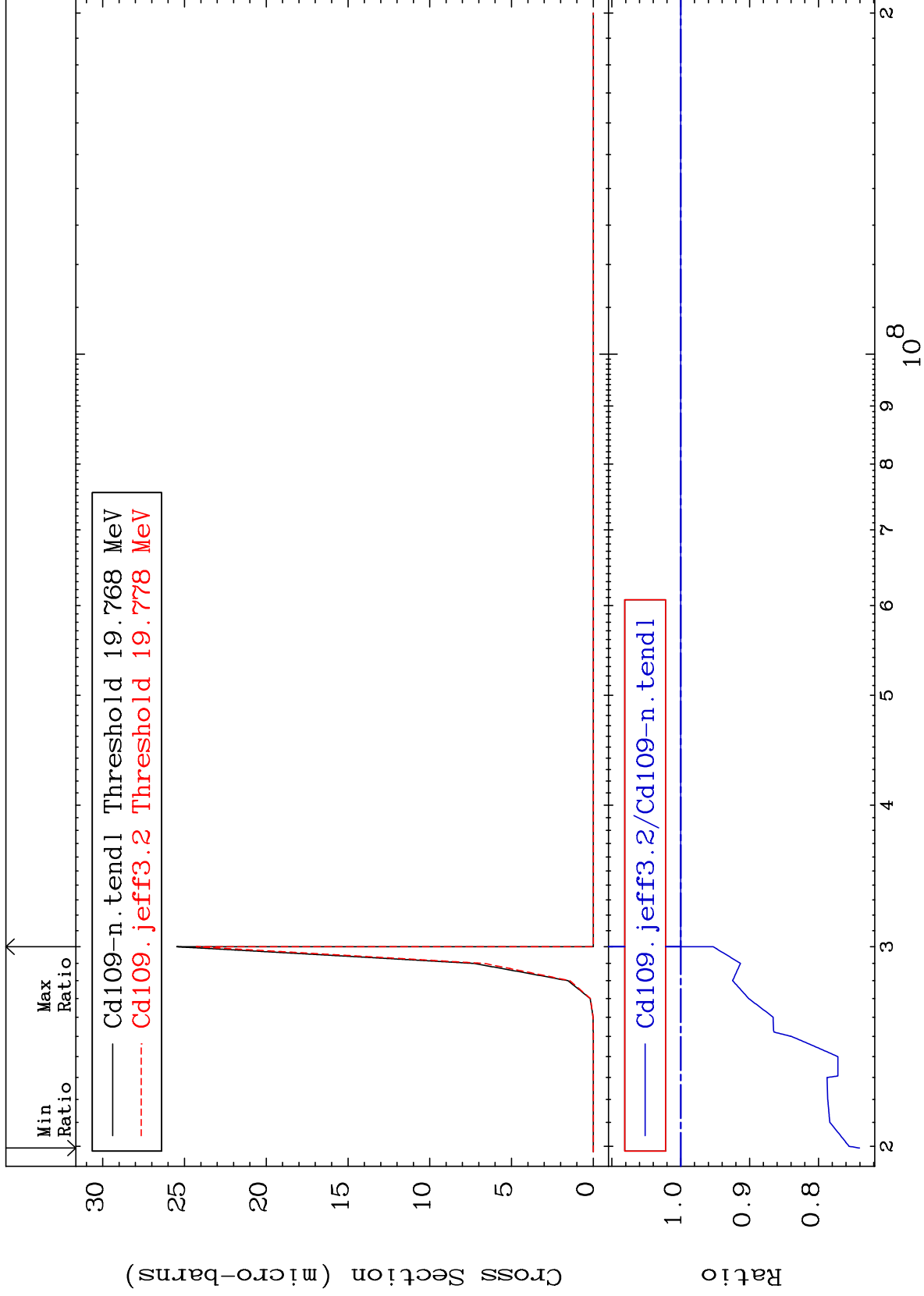
48-Cd-109
-22.29 To 0.000 %



MAT 4834

(n,3n) α
Cross Section

48-Cd-109
-25.95 To 0.000 %



9

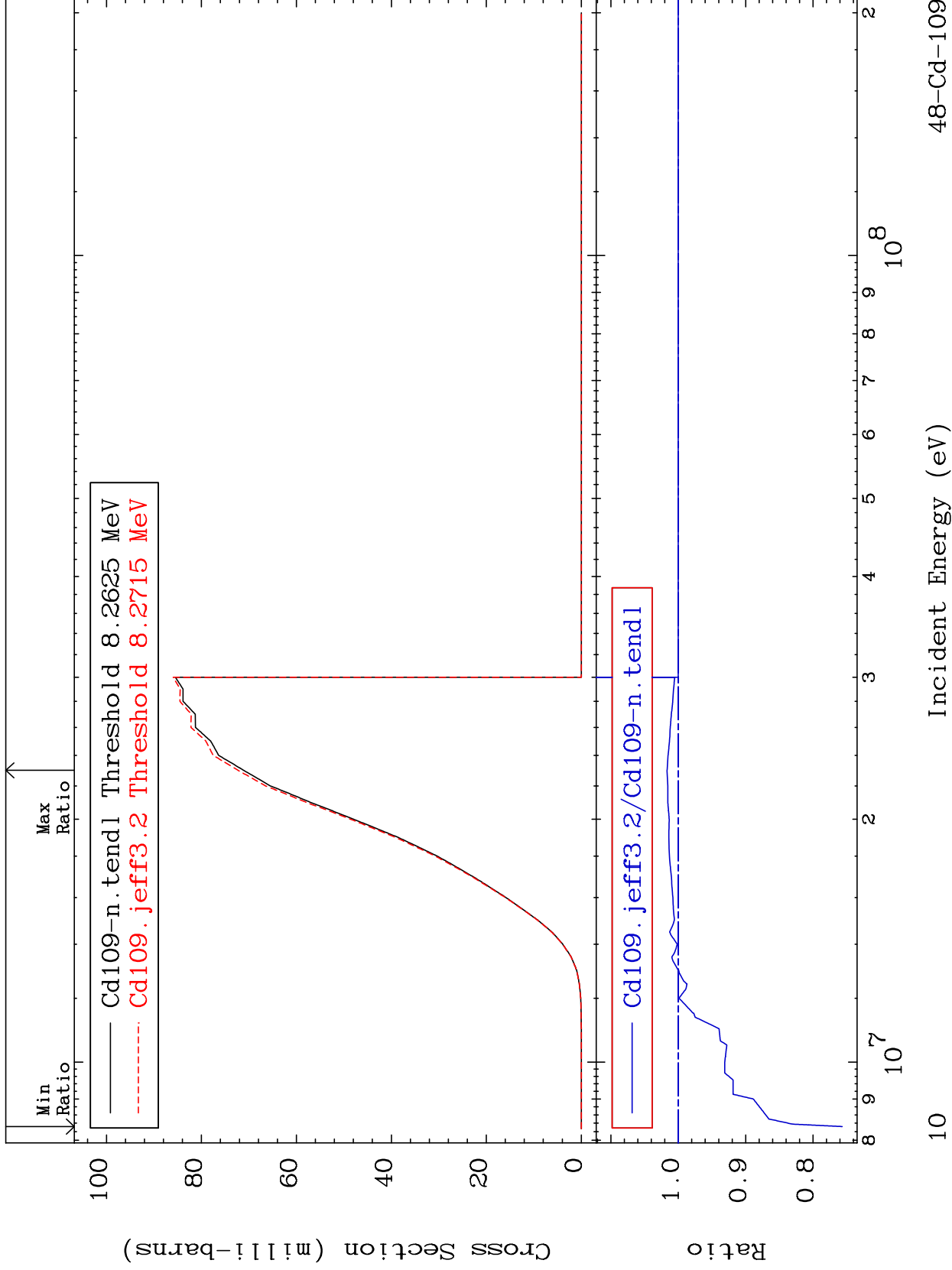
48-Cd-109

48-Cd-109

MAT 4834

(n,n') p
Cross Section

48-Cd-109
-24.33 To 1.670 %

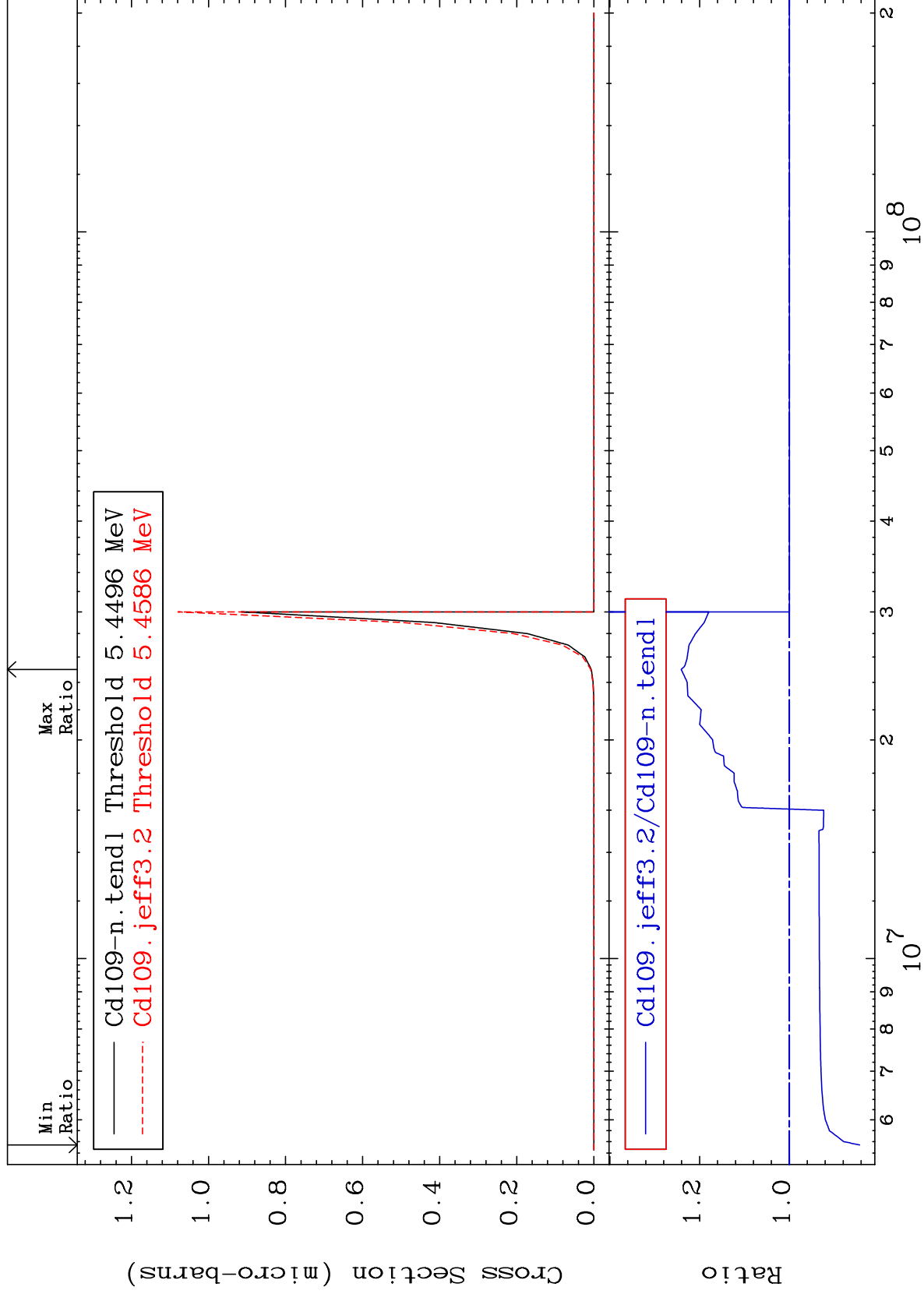


MAT 4834

48-Cd-109

(n, n') 2α
Cross Section

-15.67 To 24.10 %



11

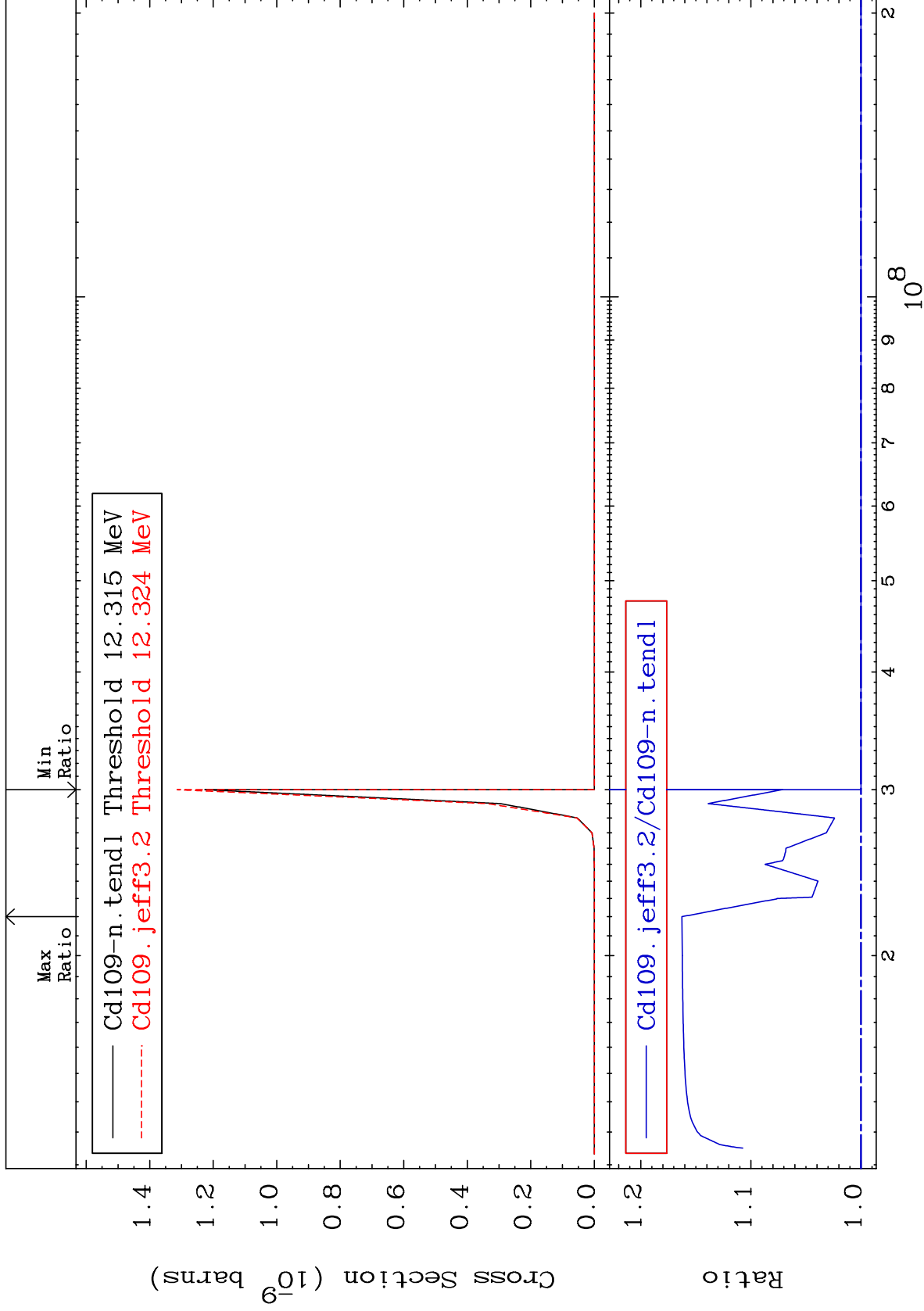
Incident Energy (eV)

48-Cd-109

MAT 4834

(n,2n) 2α
Cross Section

48-Cd-109
0.000 To 16.26 %



12

Incident Energy (eV)

48-Cd-109

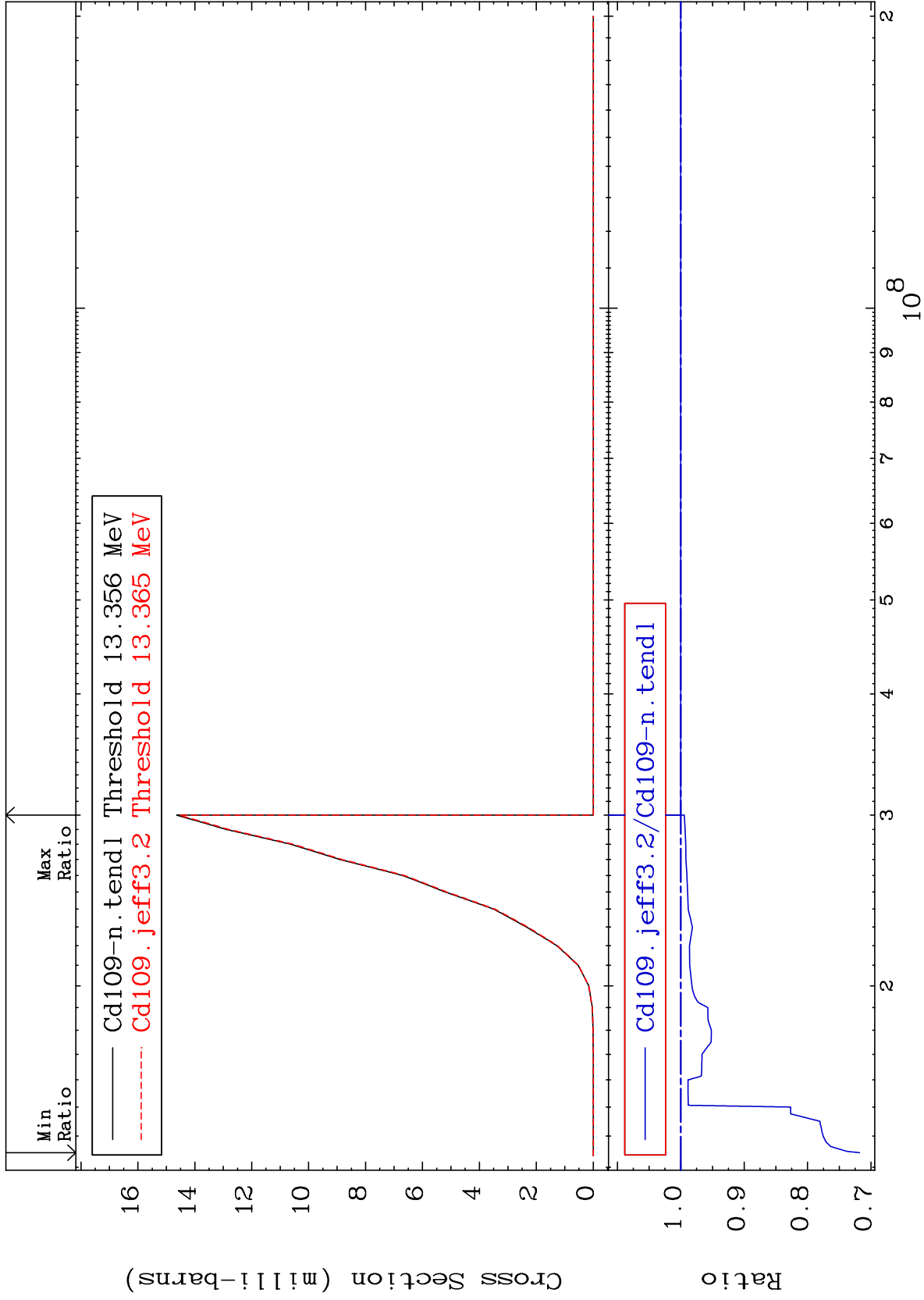
MAT 4834

(n,n') d

48-Cd-109

Cross Section

-28.20 To 0.000 %



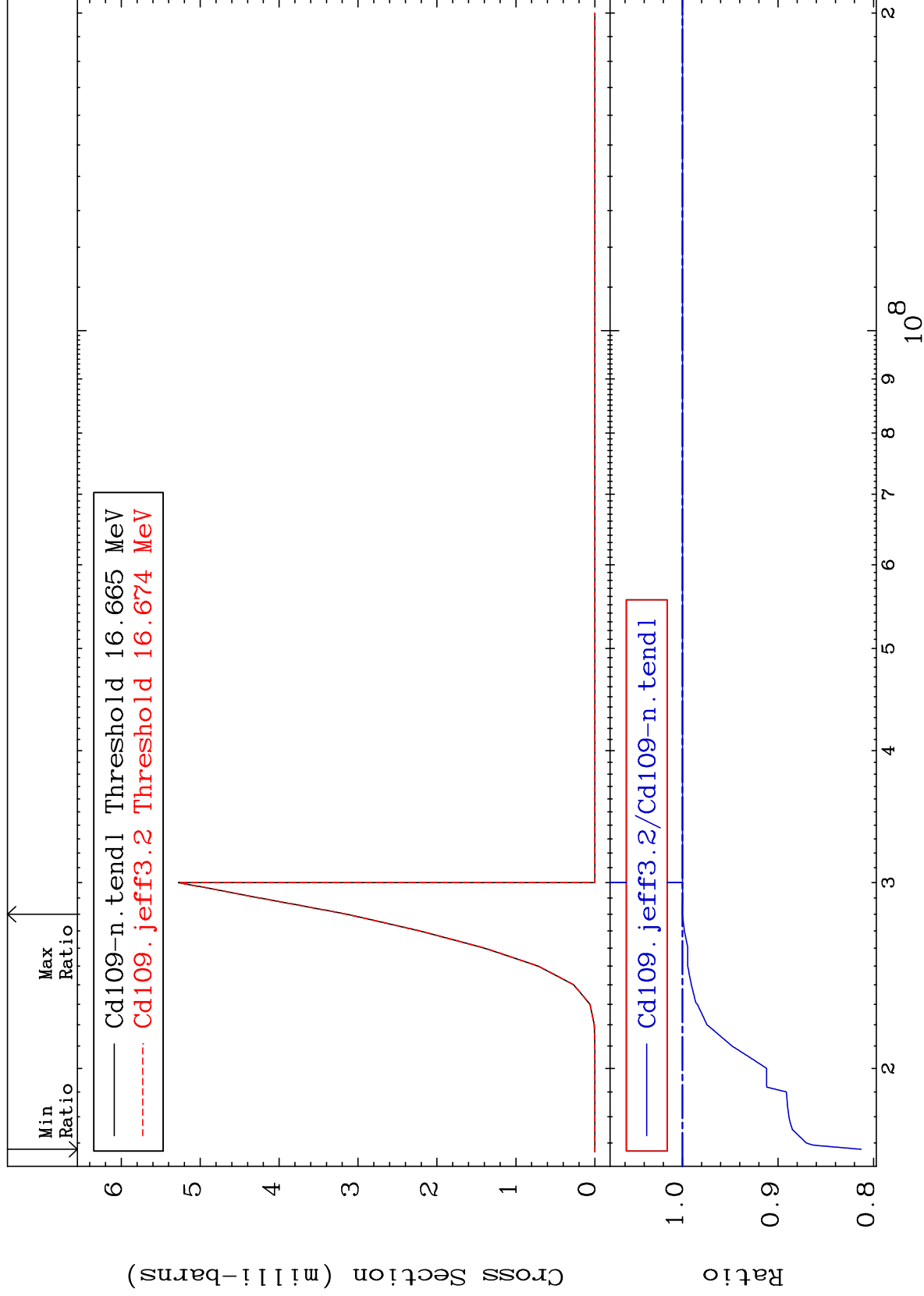
MAT 4834

(n,n') t

48-Cd-109

Cross Section

-18.69 To 0.011 %



14

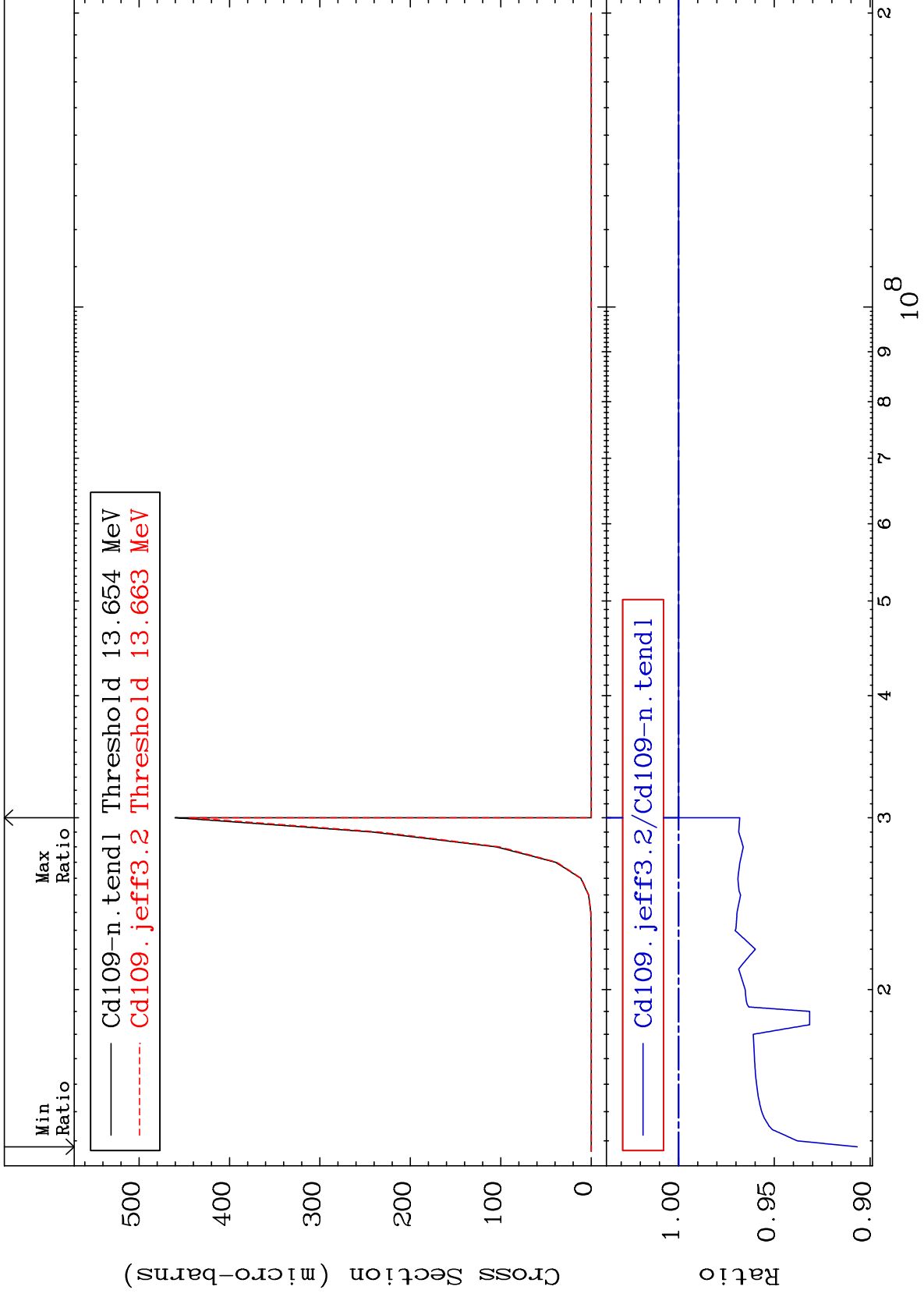
Incident Energy (eV)

48-Cd-109

MAT 4834

(n, n') He-3
Cross Section

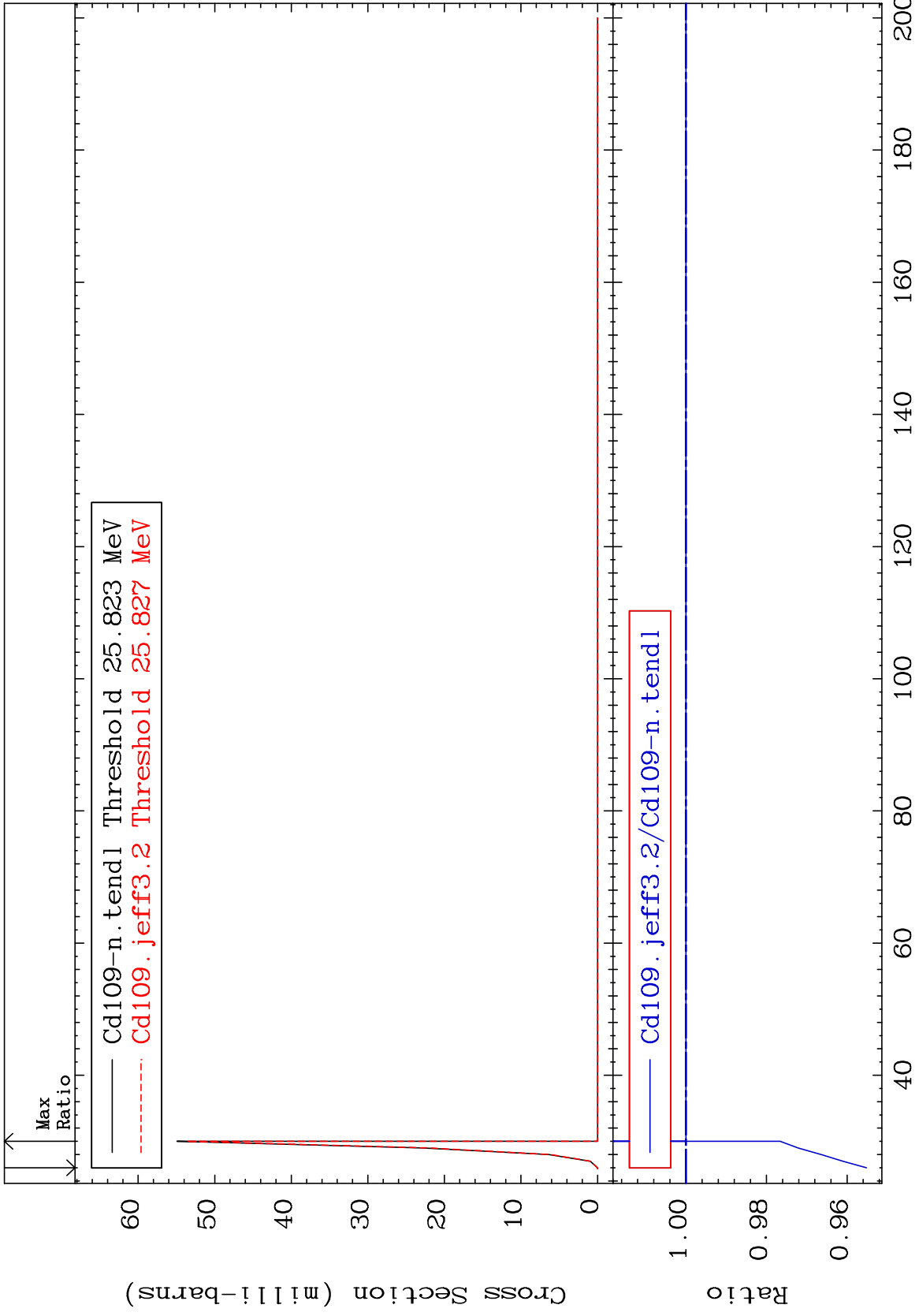
48-Cd-109
-9.330 To 0.000 %



MAT 4834

(n,4n)
Cross Section

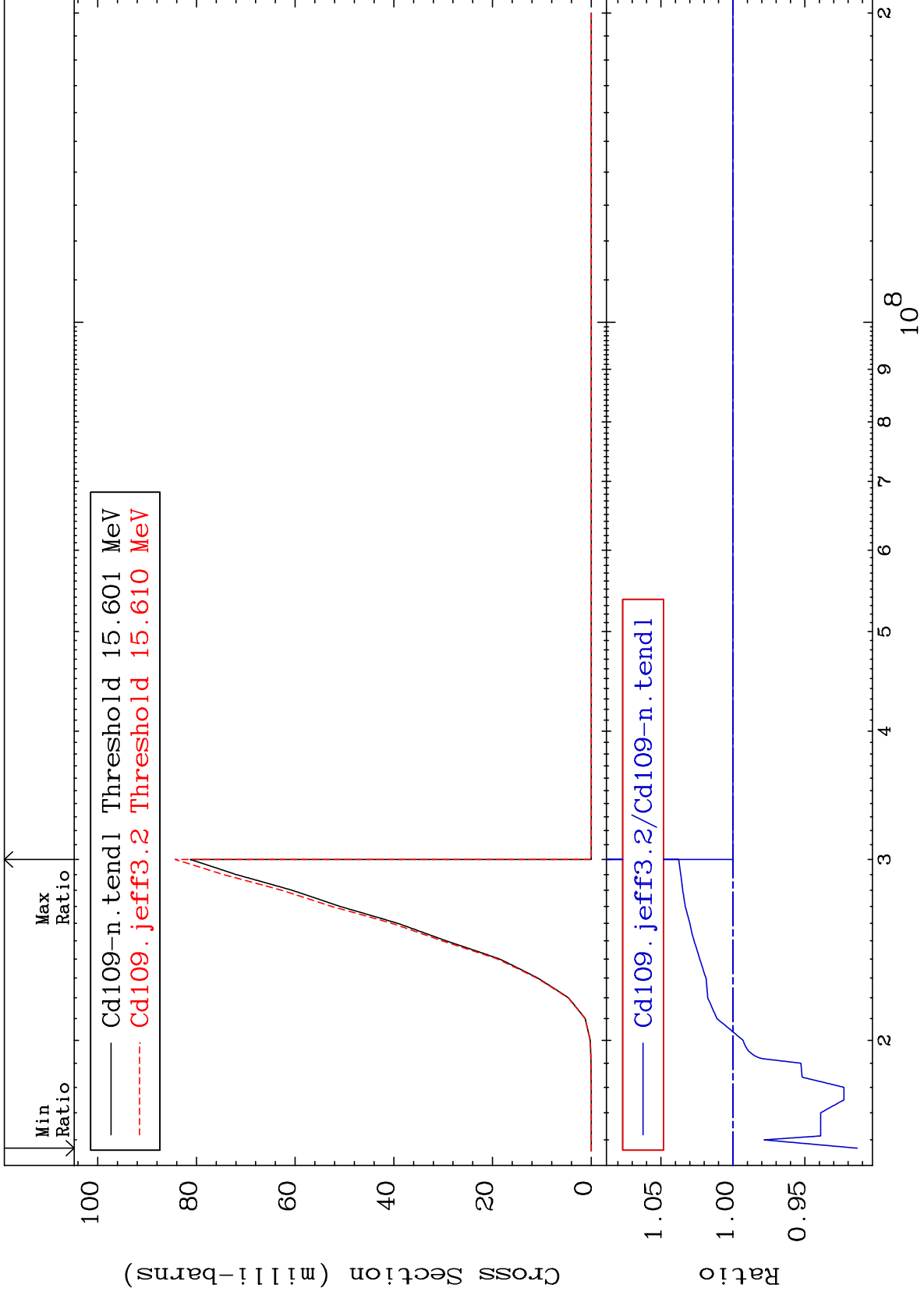
48-Cd-109
-4.482 To 0.000 %



MAT 4834

(n,2n) p
Cross Section

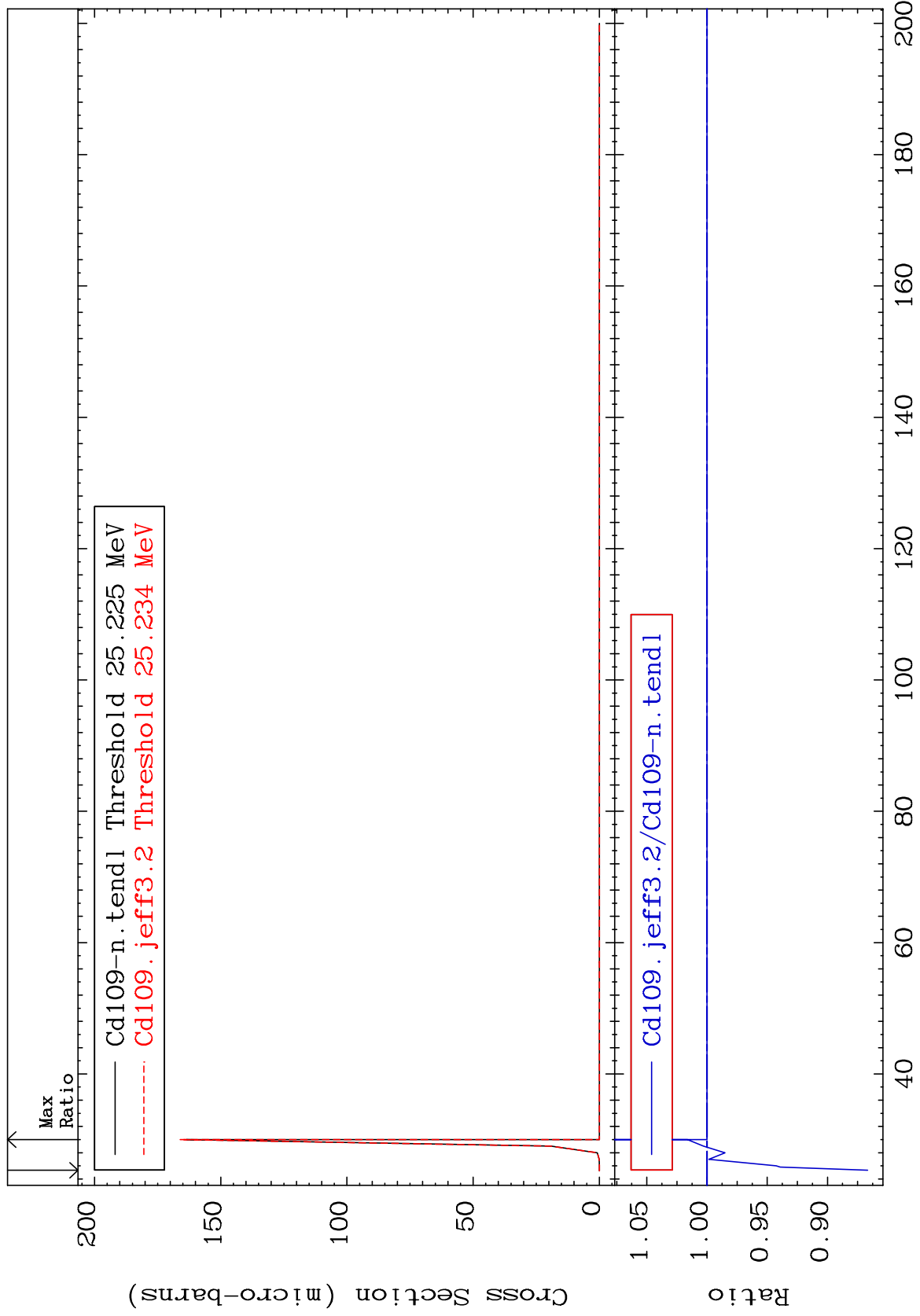
48-Cd-109
-8.635 To 3.775 %



MAT 4834

(n,3n) p
Cross Section

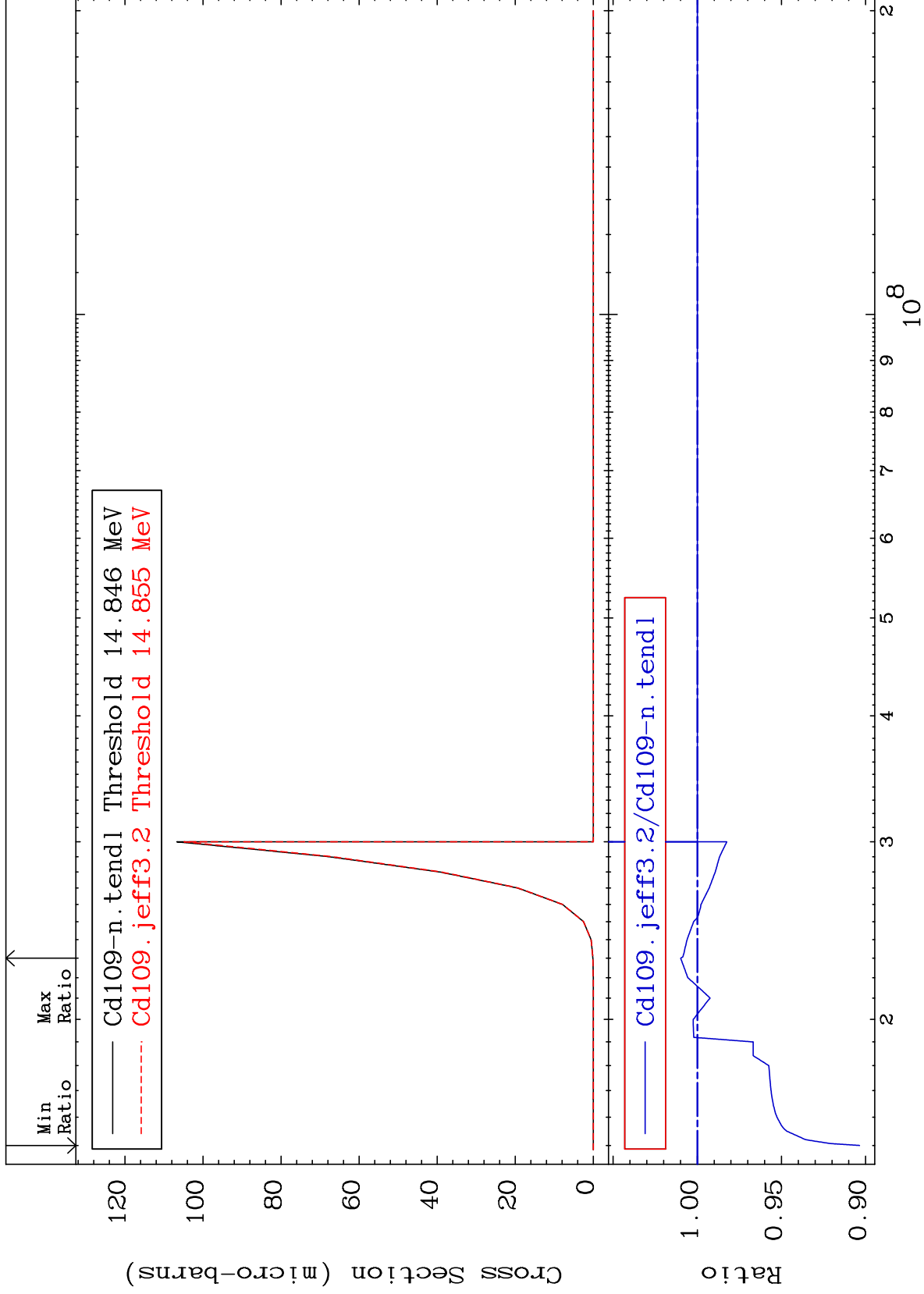
48-Cd-109
-13.33 To 1.621 %



MAT 4834

(n,2n) p
Cross Section

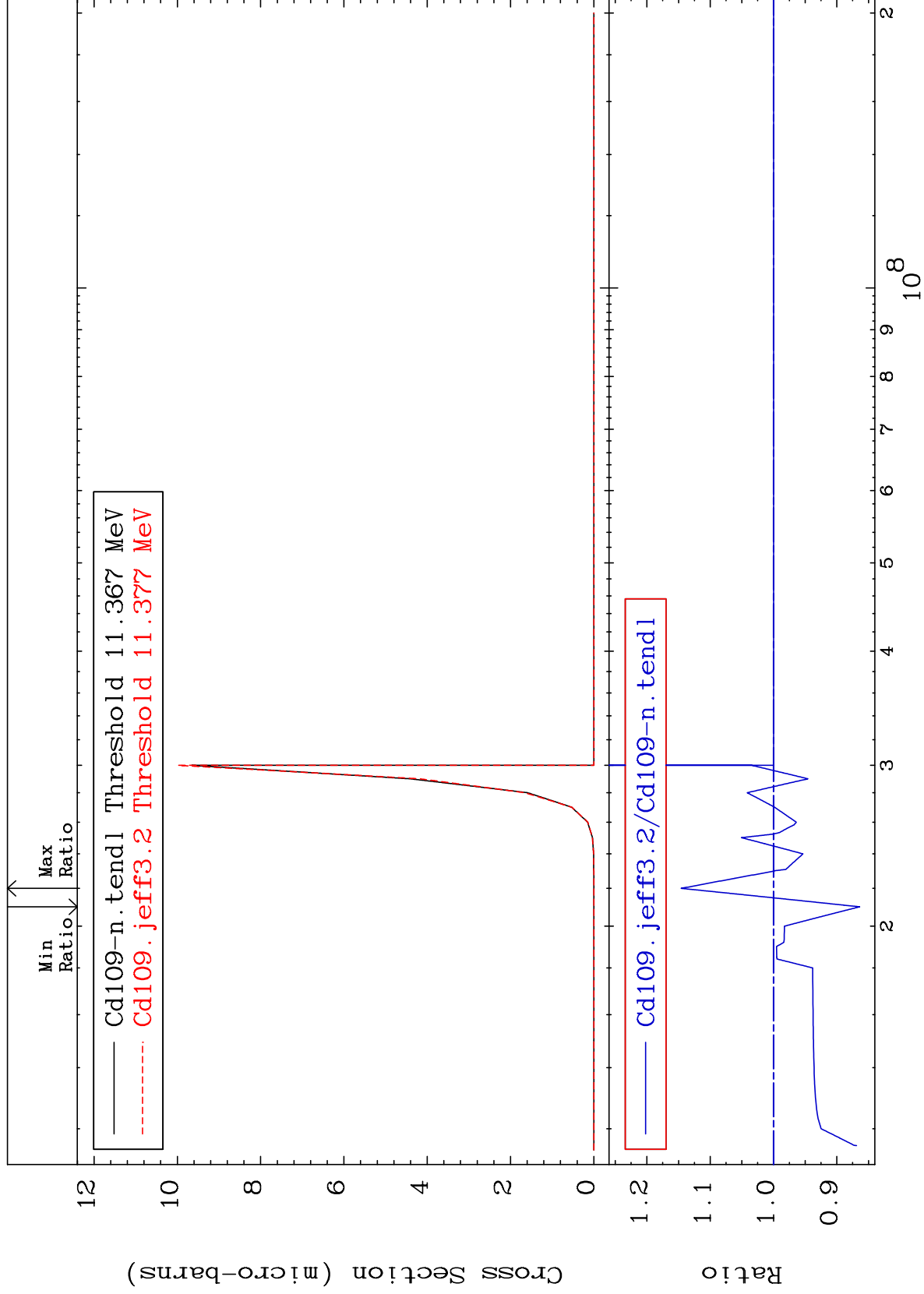
48-Cd-109
-9.639 To 0.983 %



MAT 4834

(n,n') p α
Cross Section

48-Cd-109
-13.60 To 14.58 %



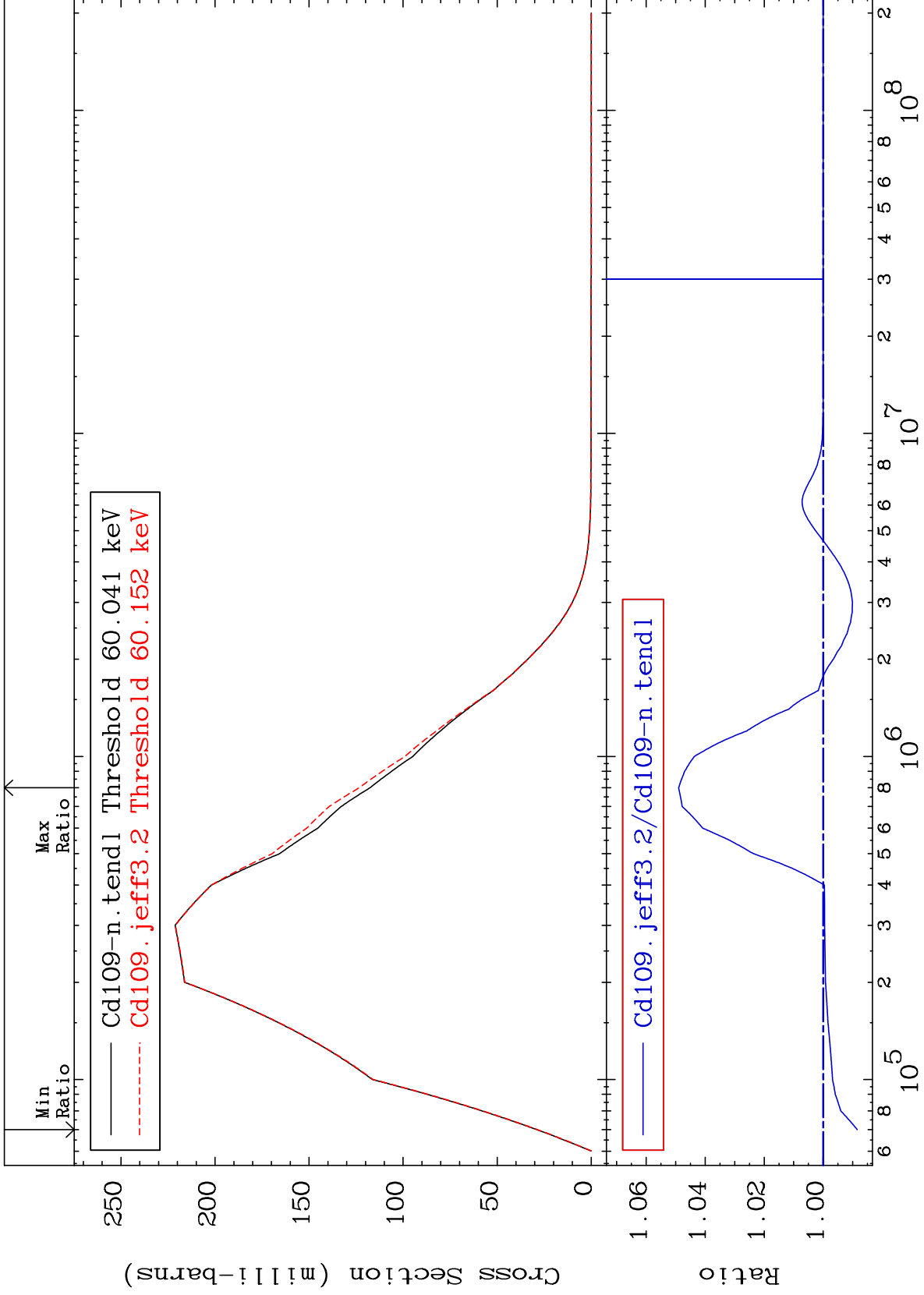
20

48-Cd-109

MAT 4834

59.49 keV (n,n') Level
Cross Section

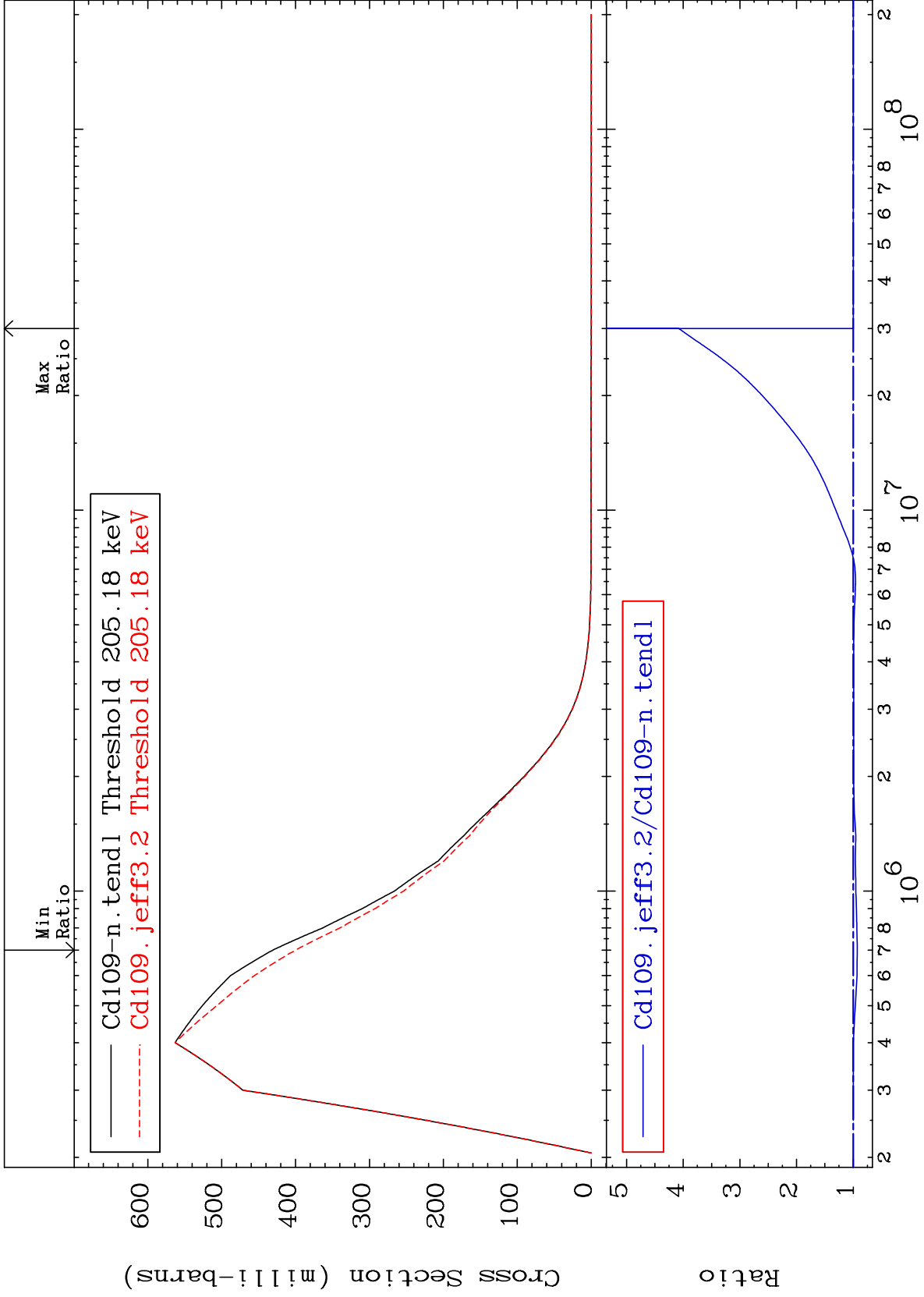
48-Cd-109
-1.154 To 4.900 %



MAT 4834

203.3 keV (n,n') Level
Cross Section

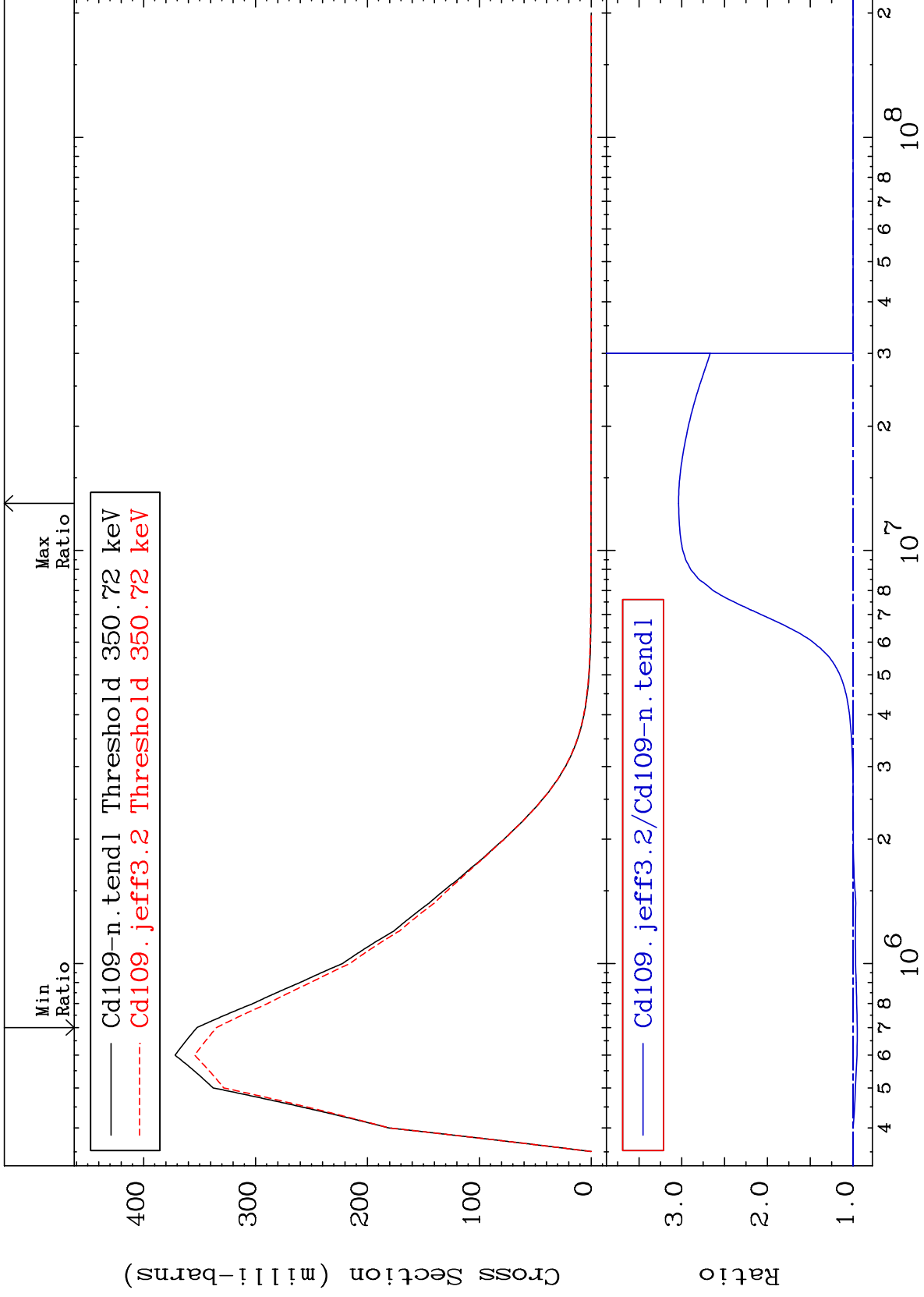
48-Cd-109
-7.132 To 308.1 %



MAT 4834

347.5 keV (n,n') Level
Cross Section

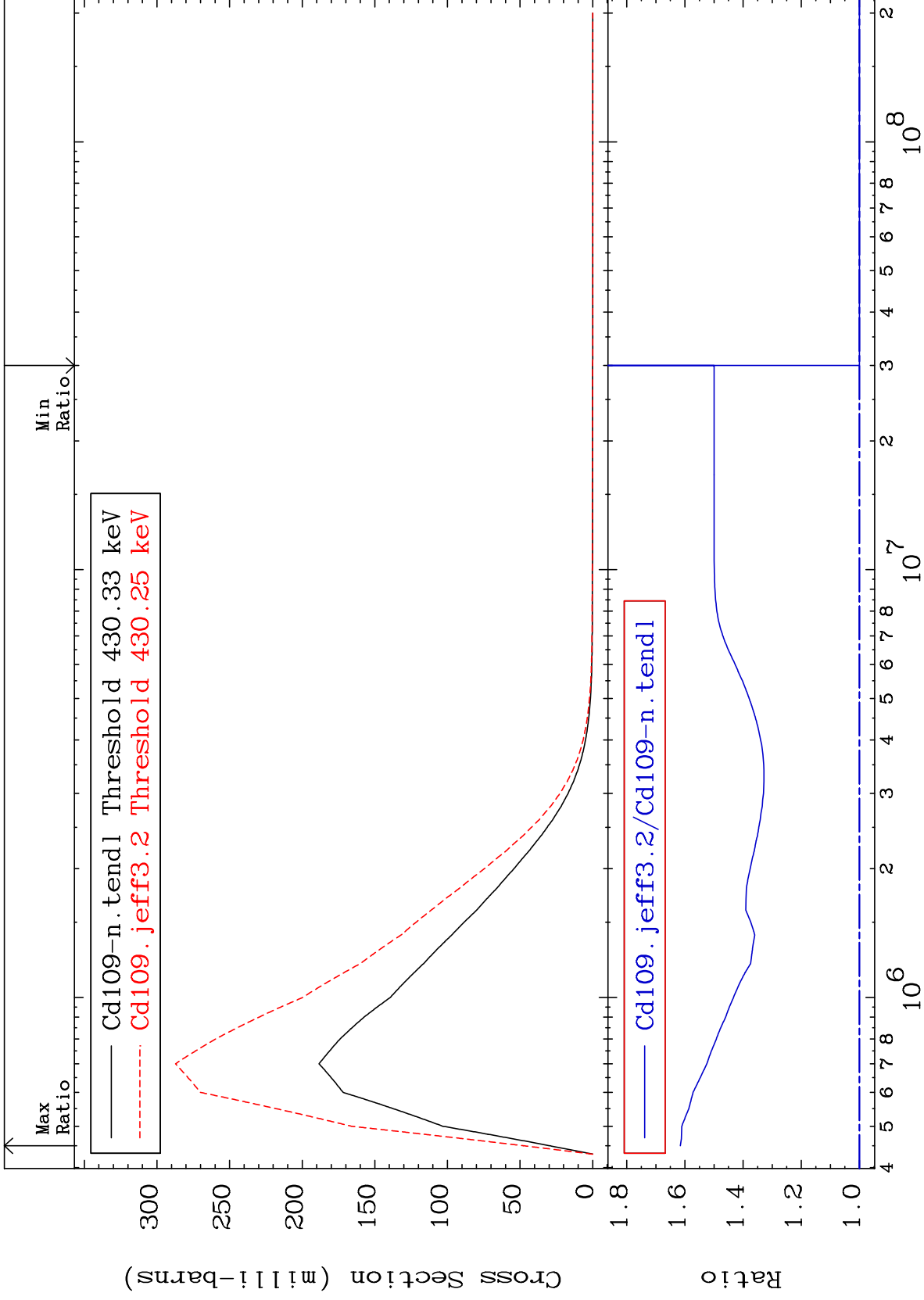
48-Cd-109
-4.947 To 203.7 %



MAT 4834

426.4 keV (n,n') Level
Cross Section

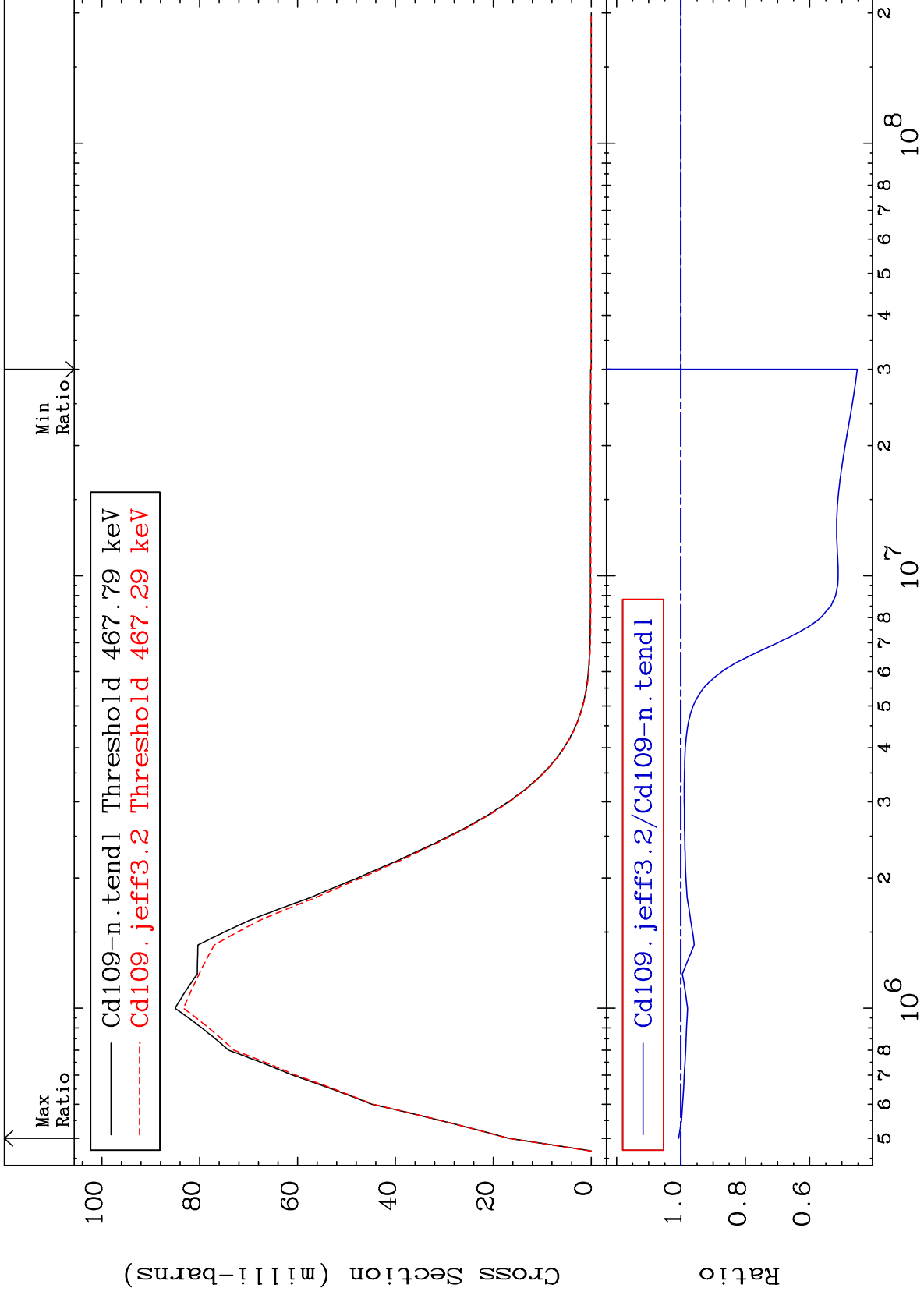
48-Cd-109
0.000 To 61.57 %



MAT 4834

463.5 keV (n,n') Level
Cross Section

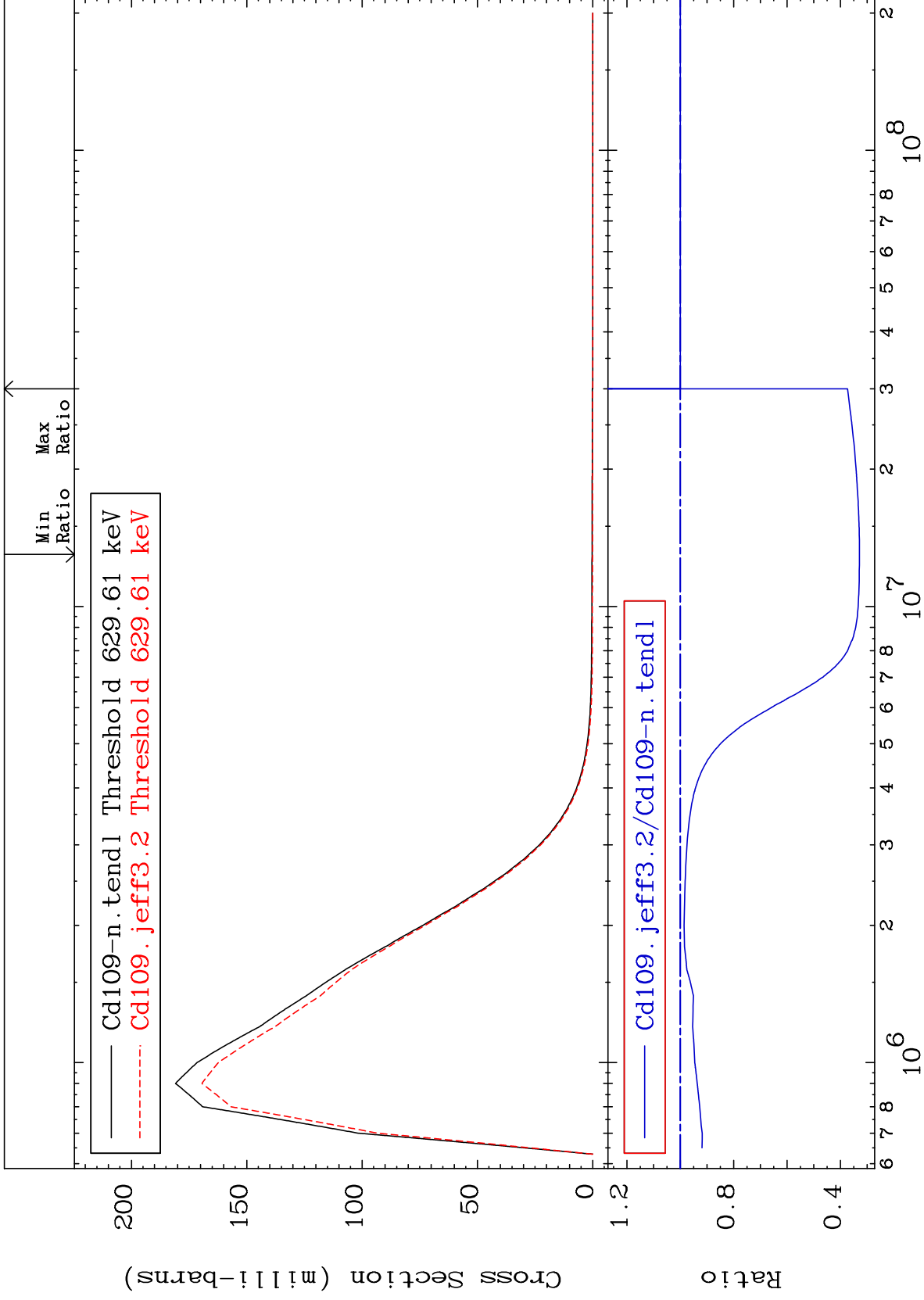
48-Cd-109
-54.77 To 0.709 %



MAT 4834

623.8 keV (n,n') Level
Cross Section

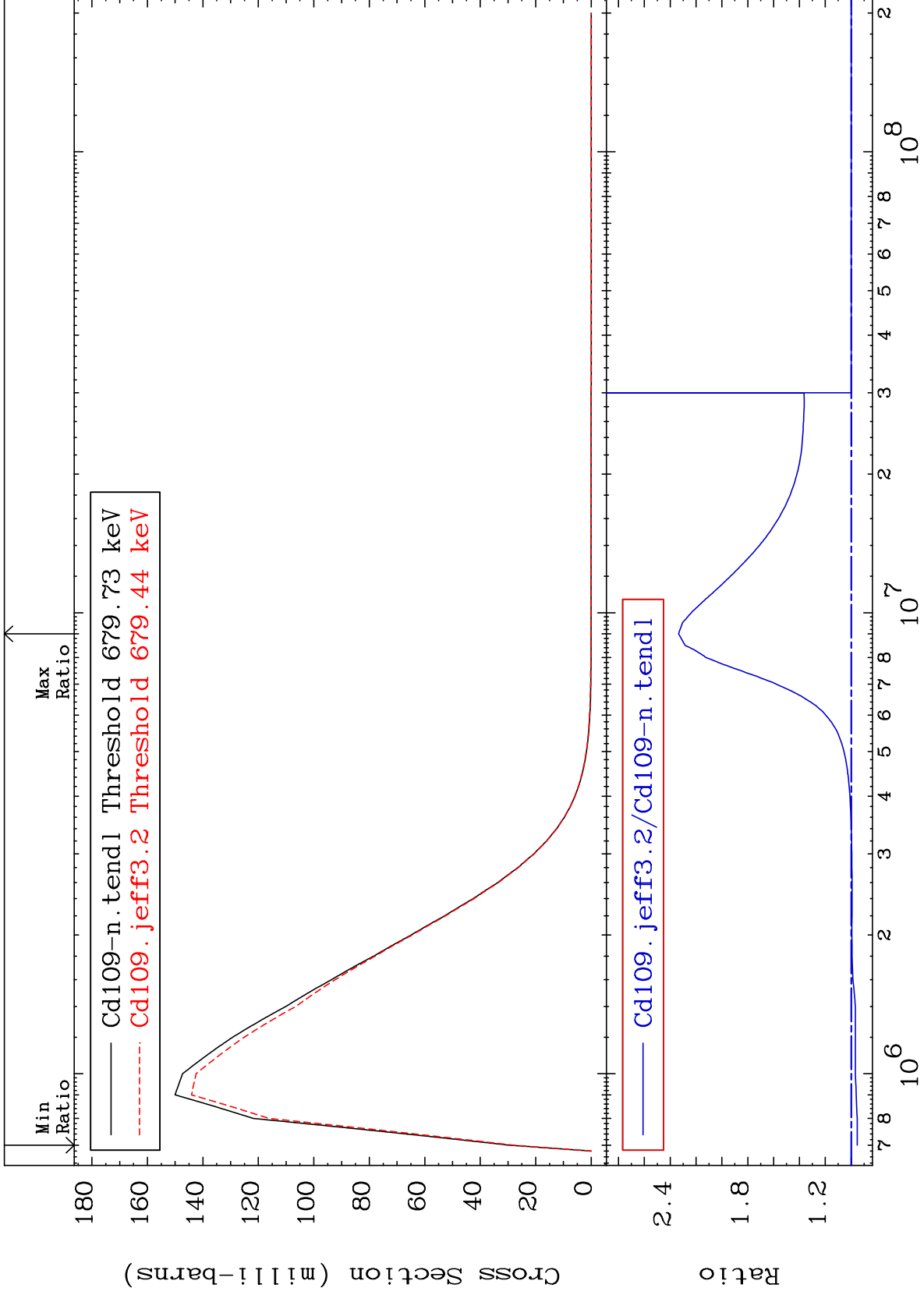
48-Cd-109
-67.10 To 0.000 %



MAT 4834

673.5 keV (n,n') Level
Cross Section

48-Cd-109
-4.734 To 133.5 %



27

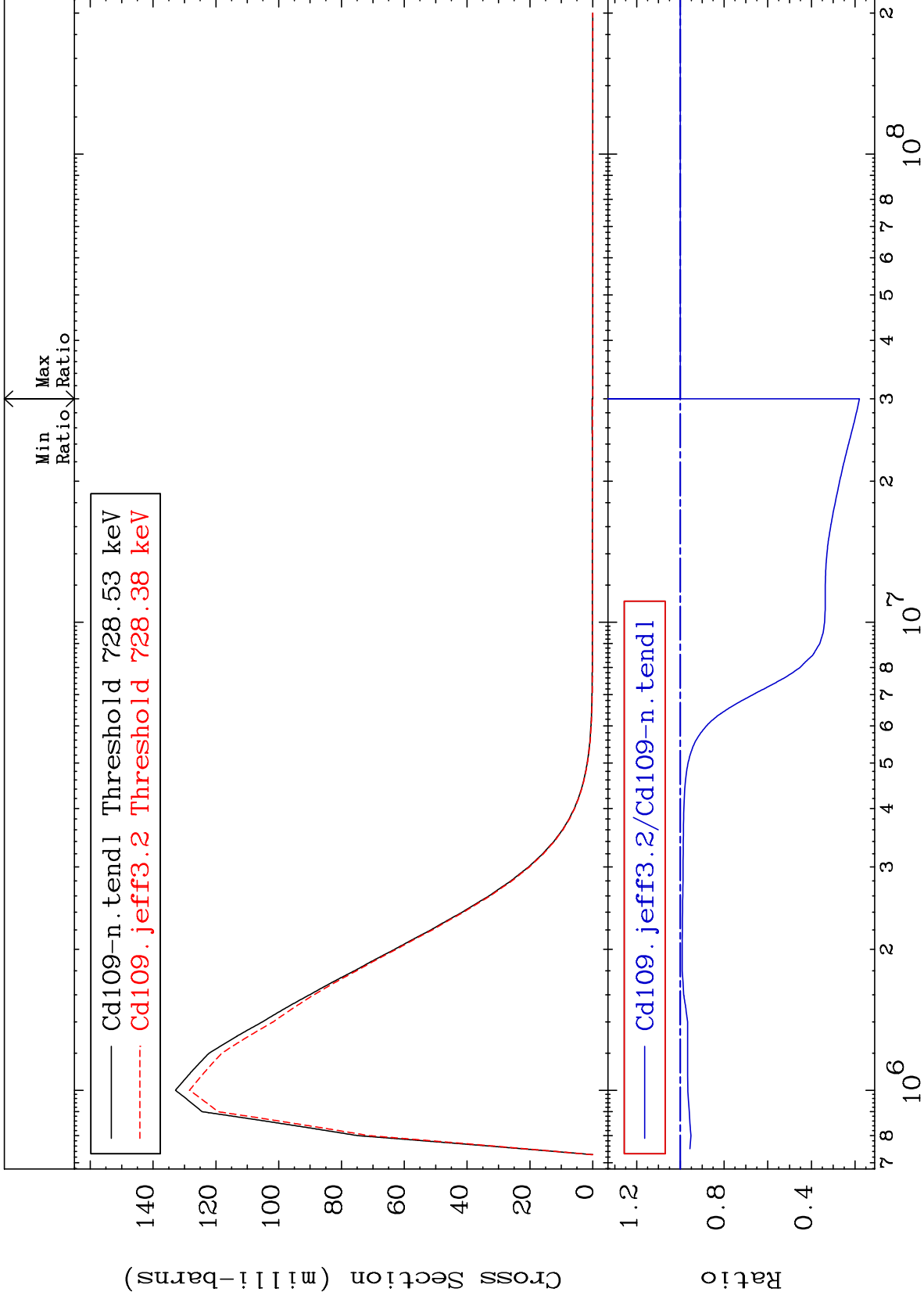
Incident Energy (eV)

48-Cd-109

MAT 4834

721.8 keV (n,n') Level
Cross Section

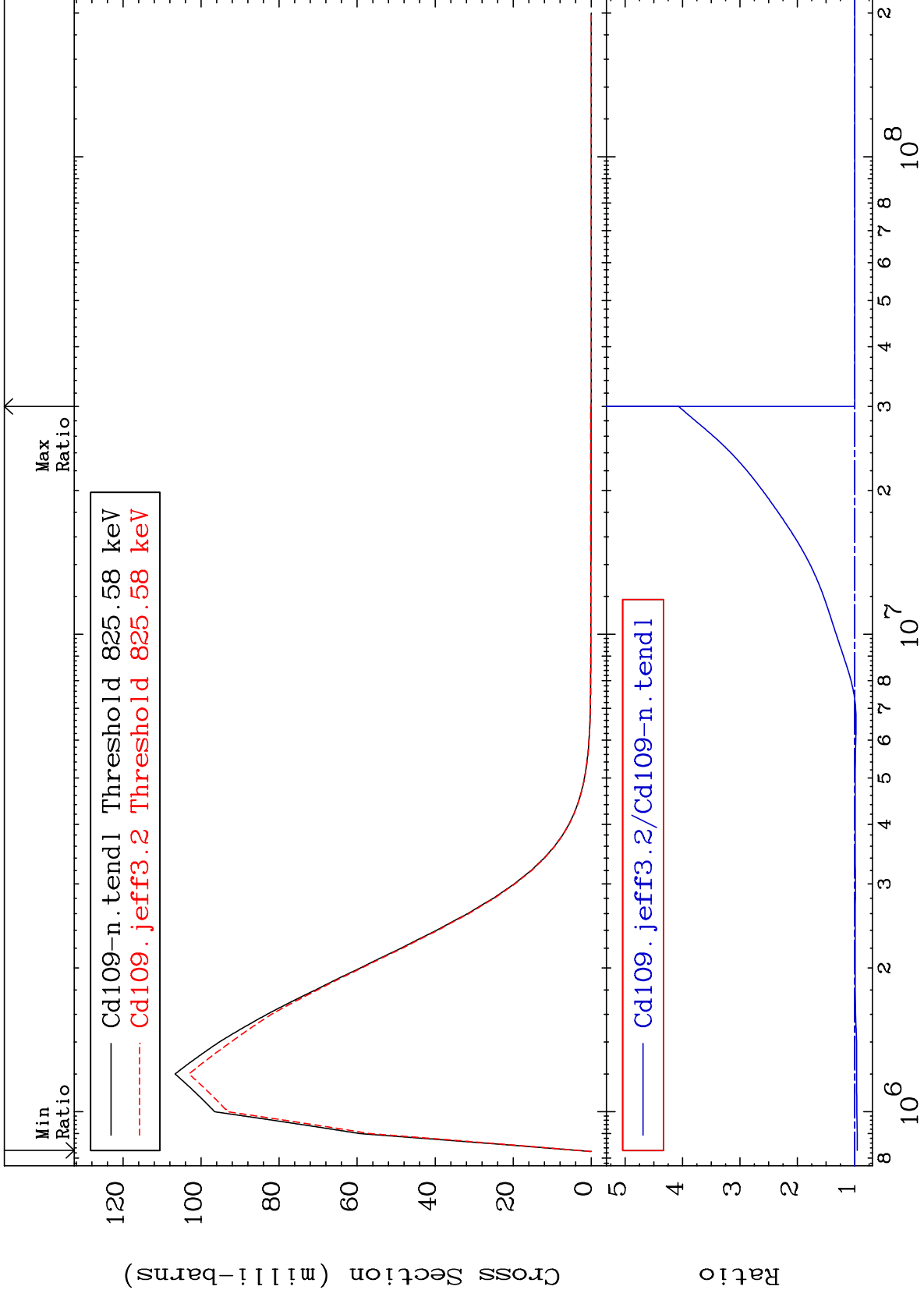
48-Cd-109
-82.00 To 0.000 %



MAT 4834

818.0 keV (n,n') Level
Cross Section

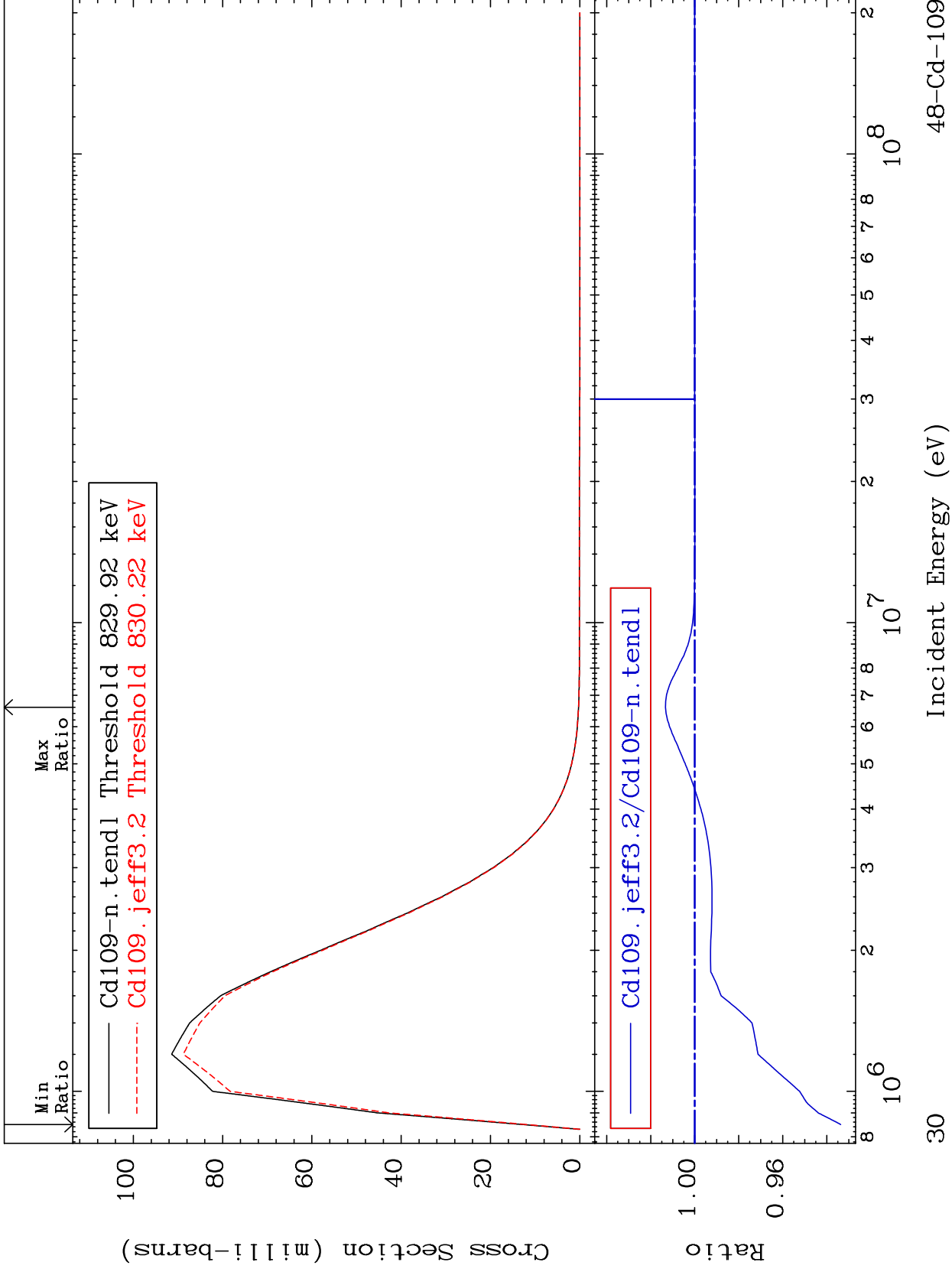
48-Cd-109
-4.332 To 306.9 %



MAT 4834

822.3 keV (n,n') Level
Cross Section

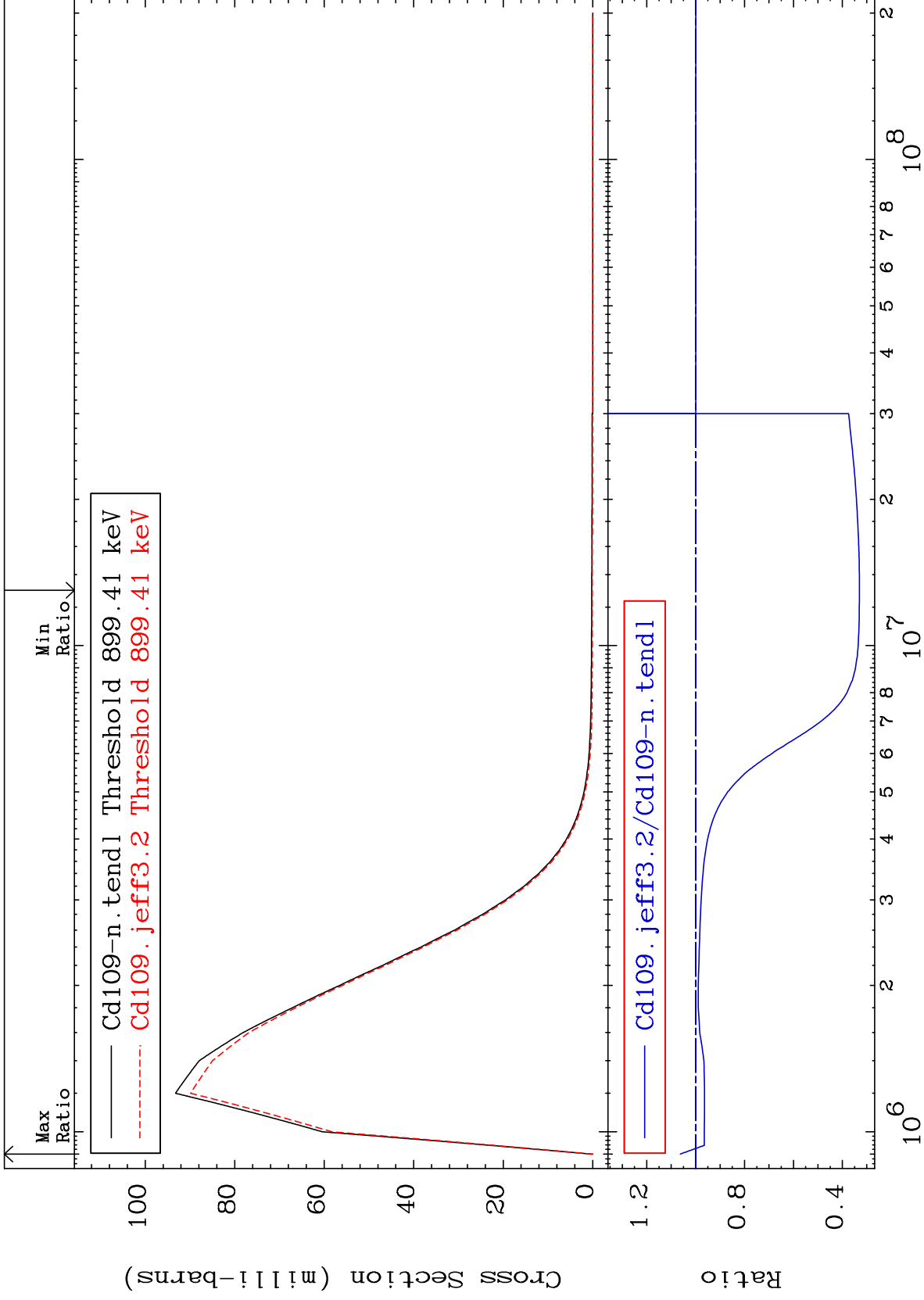
48-Cd-109
-6.627 To 1.327 %



MAT 4834

891.2 keV (n,n') Level
Cross Section

48-Cd-109
-66.98 To 6.256 %



31

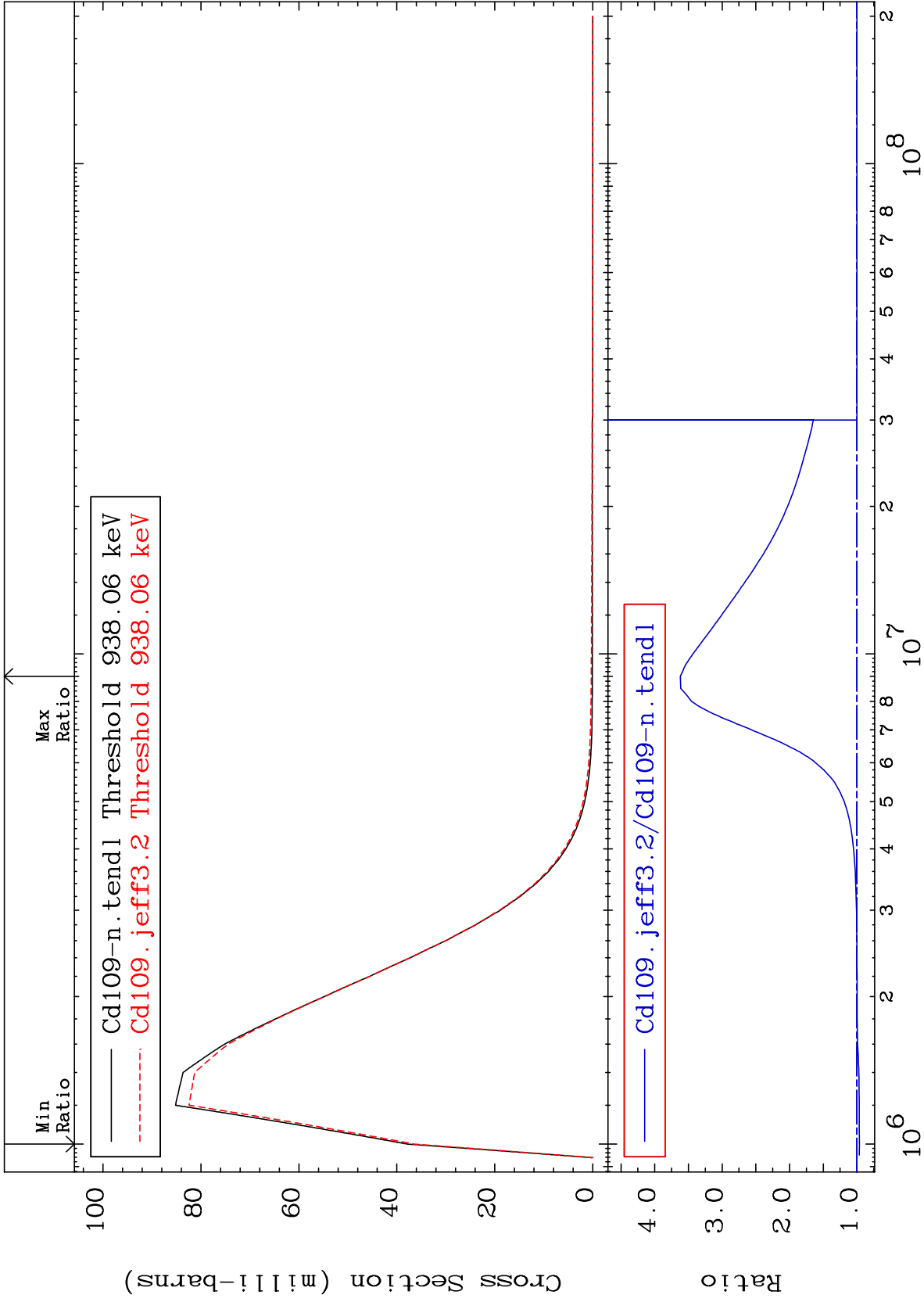
Incident Energy (eV)

48-Cd-109

MAT 4834

929.5 keV (n,n') Level
Cross Section

48-Cd-109
-3.642 To 262.0 %



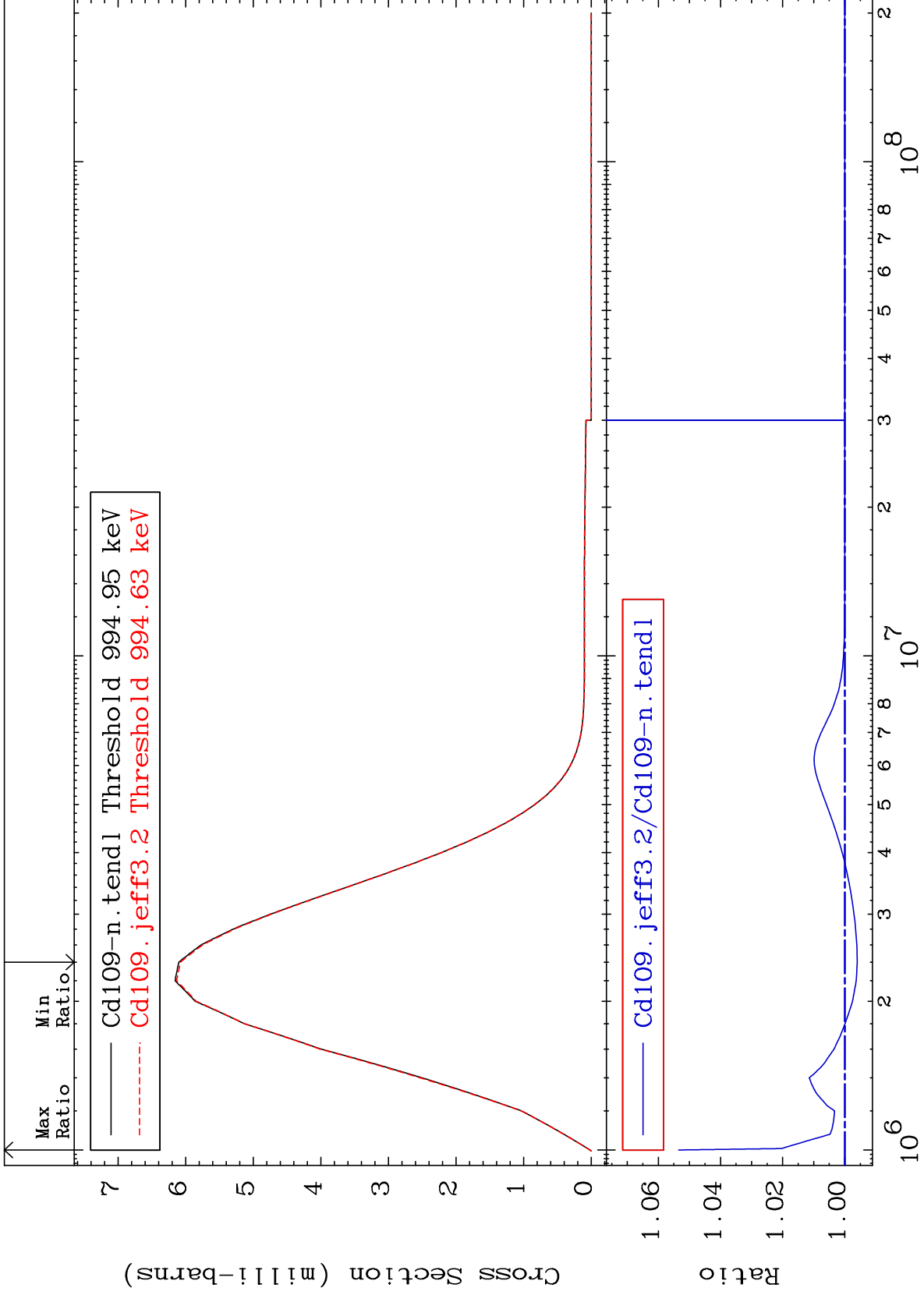
32

48-Cd-109

MAT 4834

985.8 keV (n,n') Level
Cross Section

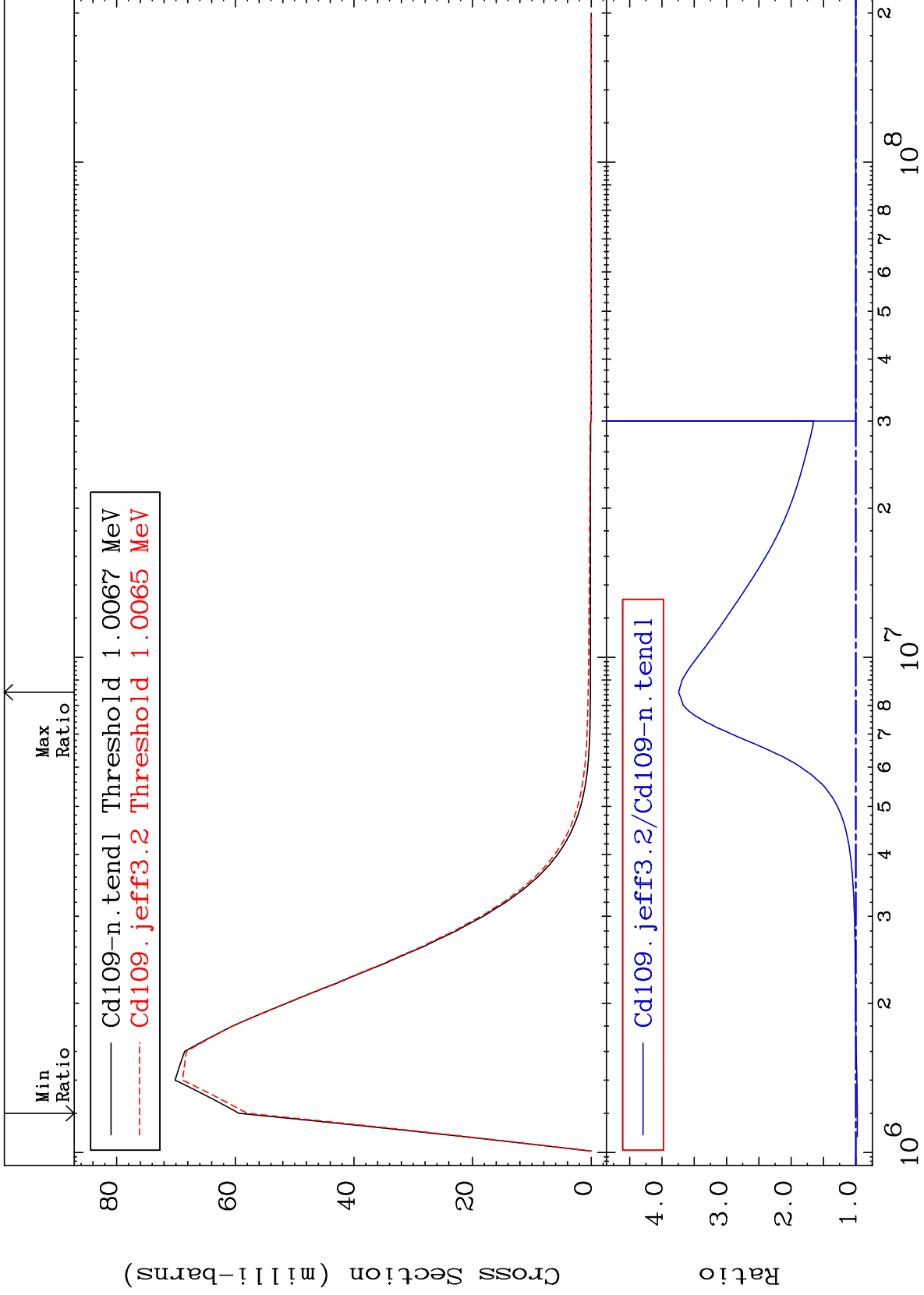
48-Cd-109
-0.400 To 5.347 %



MAT 4834

997.5 keV (n,n') Level
Cross Section

48-Cd-109
-2.299 To 274.2 %



34

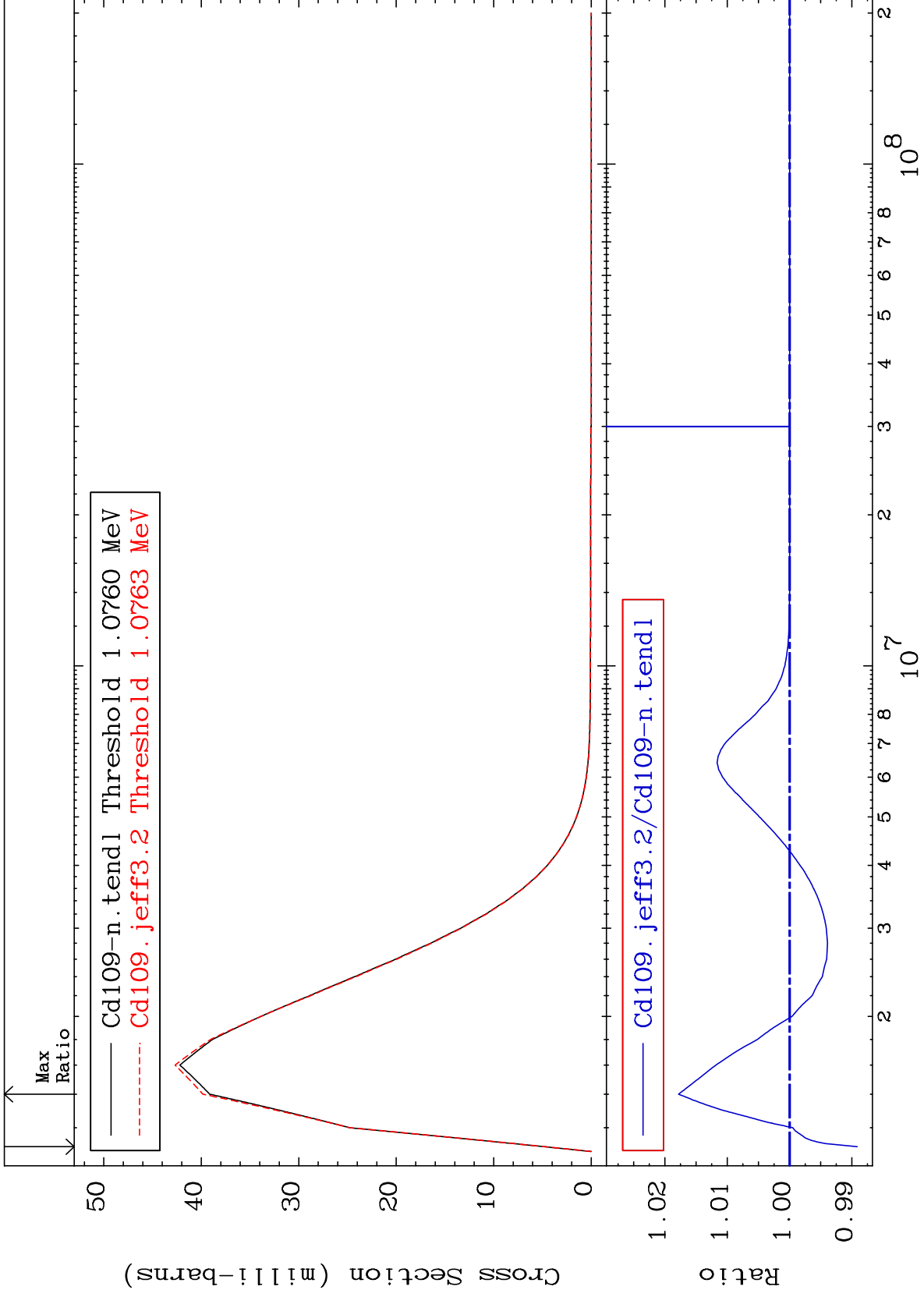
Incident Energy (eV)

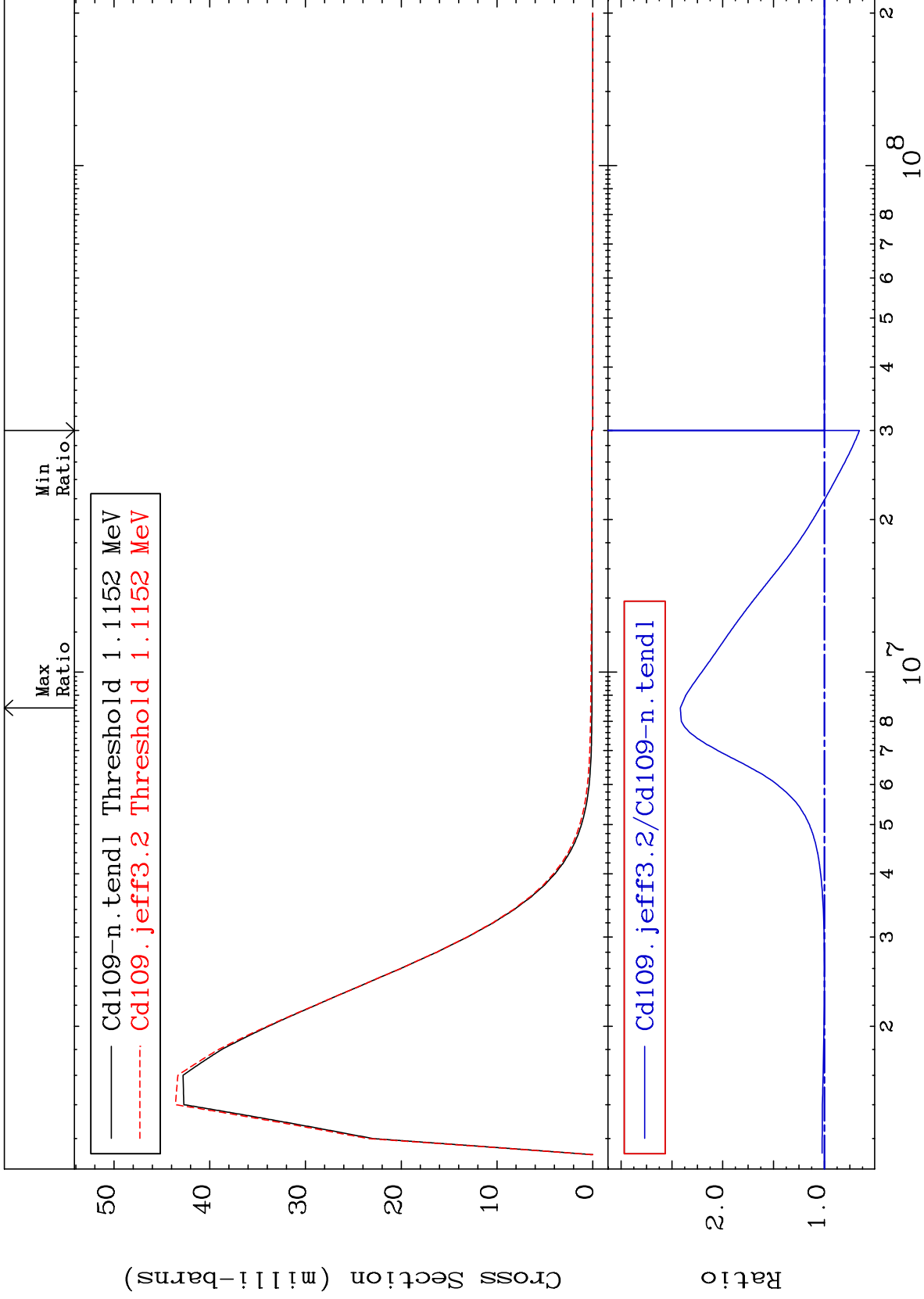
48-Cd-109

MAT 4834

1.066 MeV (n,n') Level
Cross Section

48-Cd-109
-1.086 To 1.780 %

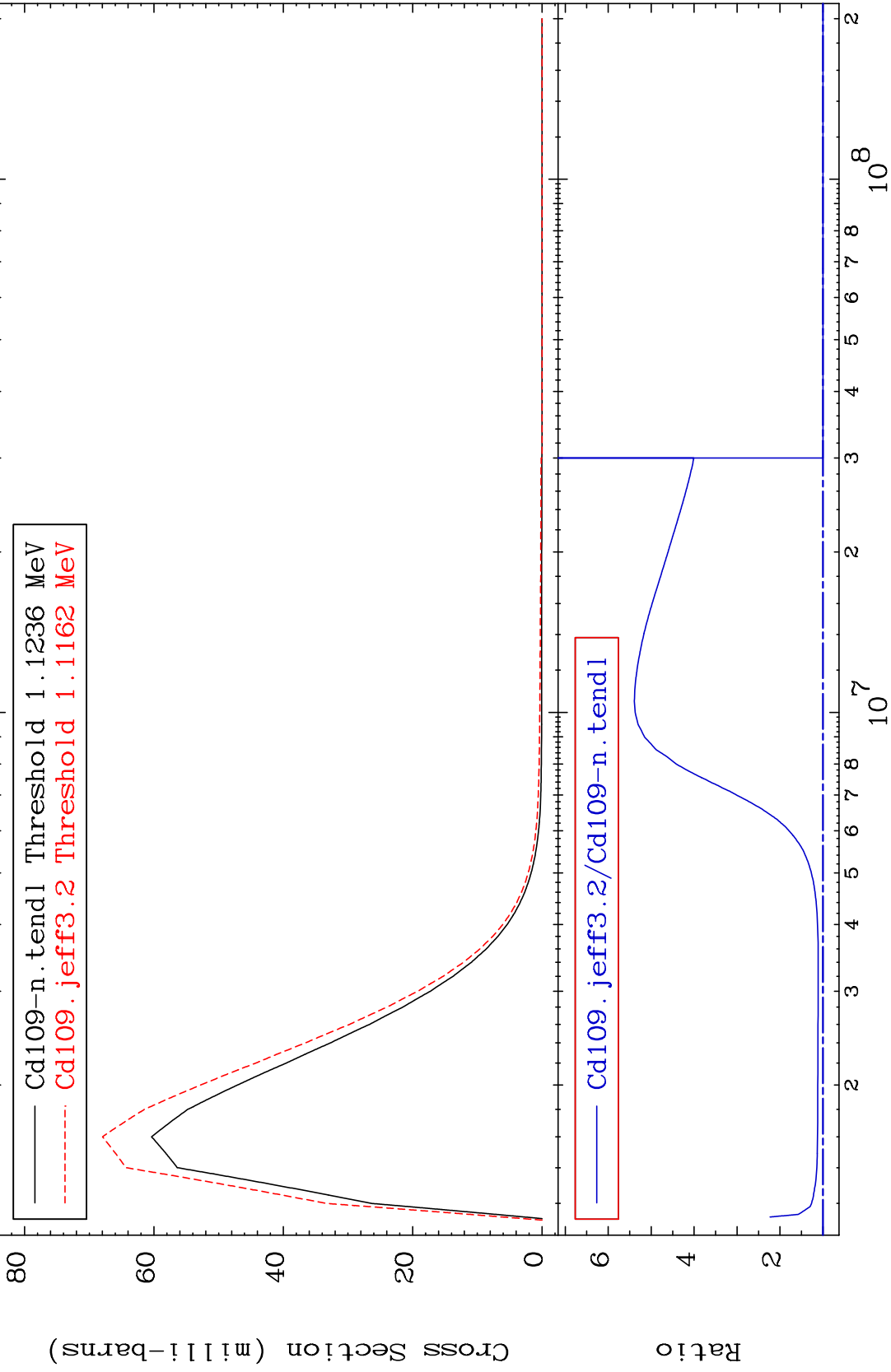




MAT 4834

1.113 MeV (n,n') Level
Cross Section

48-Cd-109
0.000 To 439.2 %



37

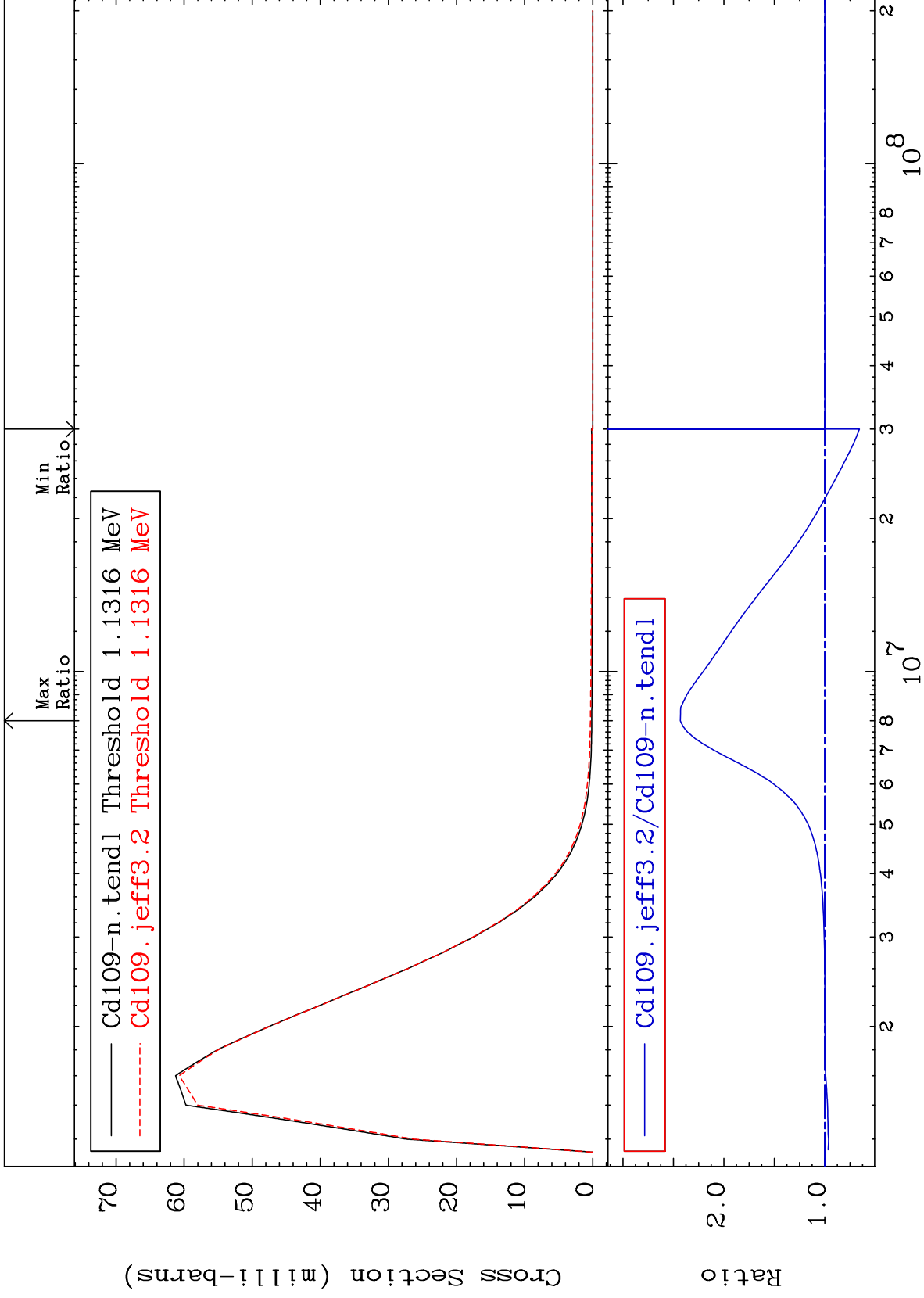
Incident Energy (eV)

48-Cd-109

MAT 4834

1.121 MeV (n,n') Level
Cross Section

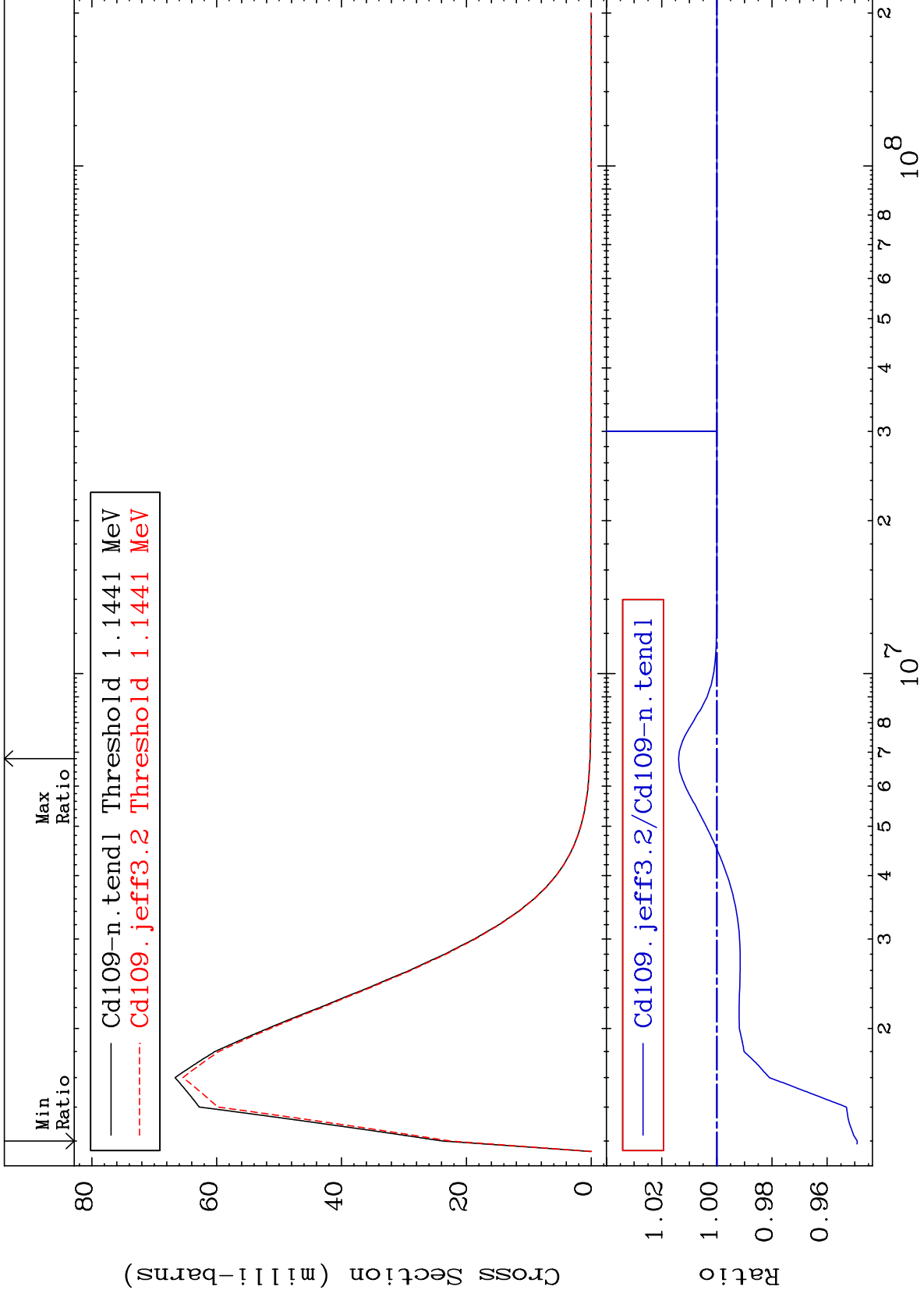
48-Cd-109
-34.39 To 143.1 %



MAT 4834

1.134 MeV (n,n') Level
Cross Section

48-Cd-109
-5.090 To 1.387 %

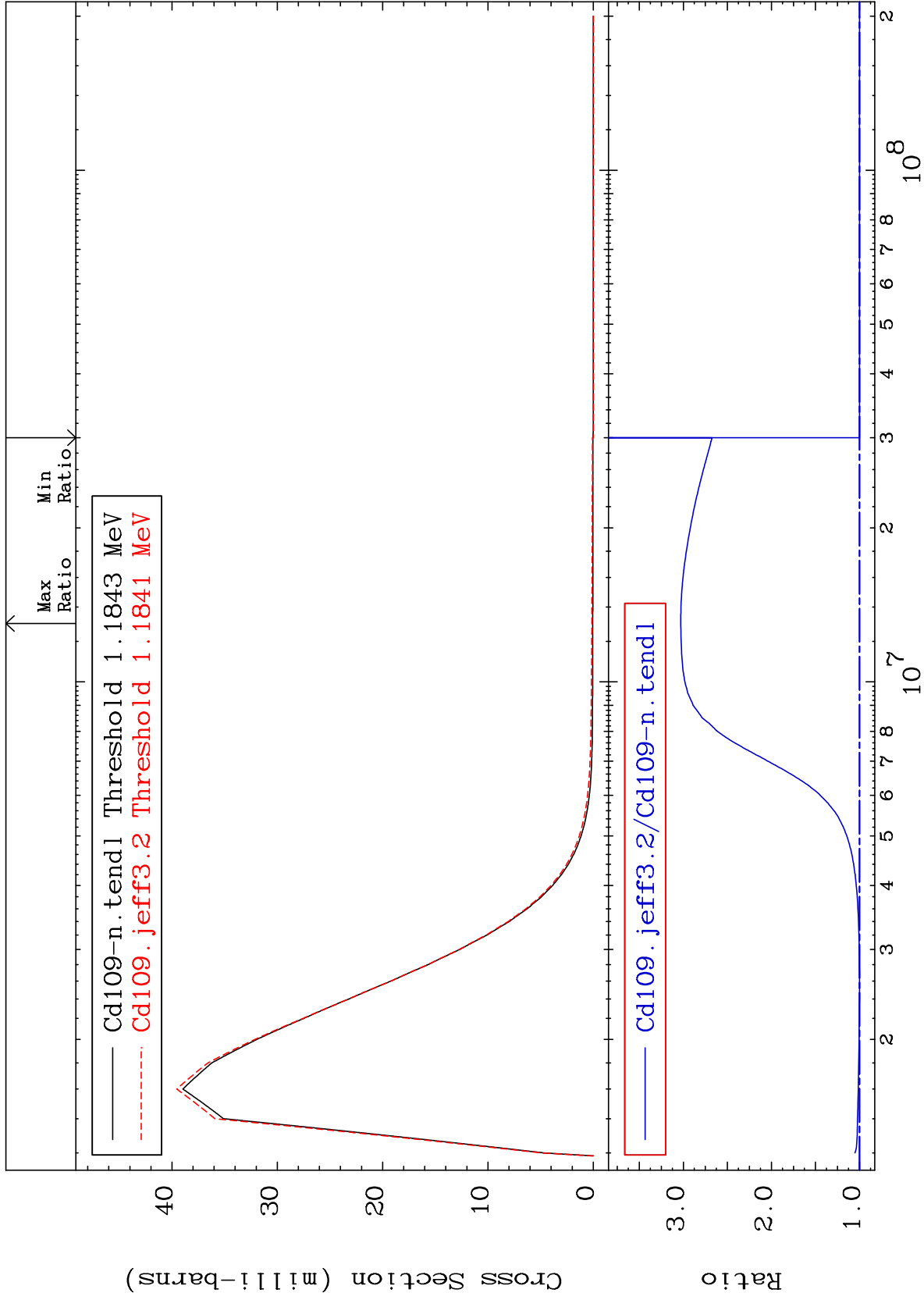


MAT 4834

1.173 MeV (n,n') Level

48-Cd-109

0.000 To 202.9 %



40

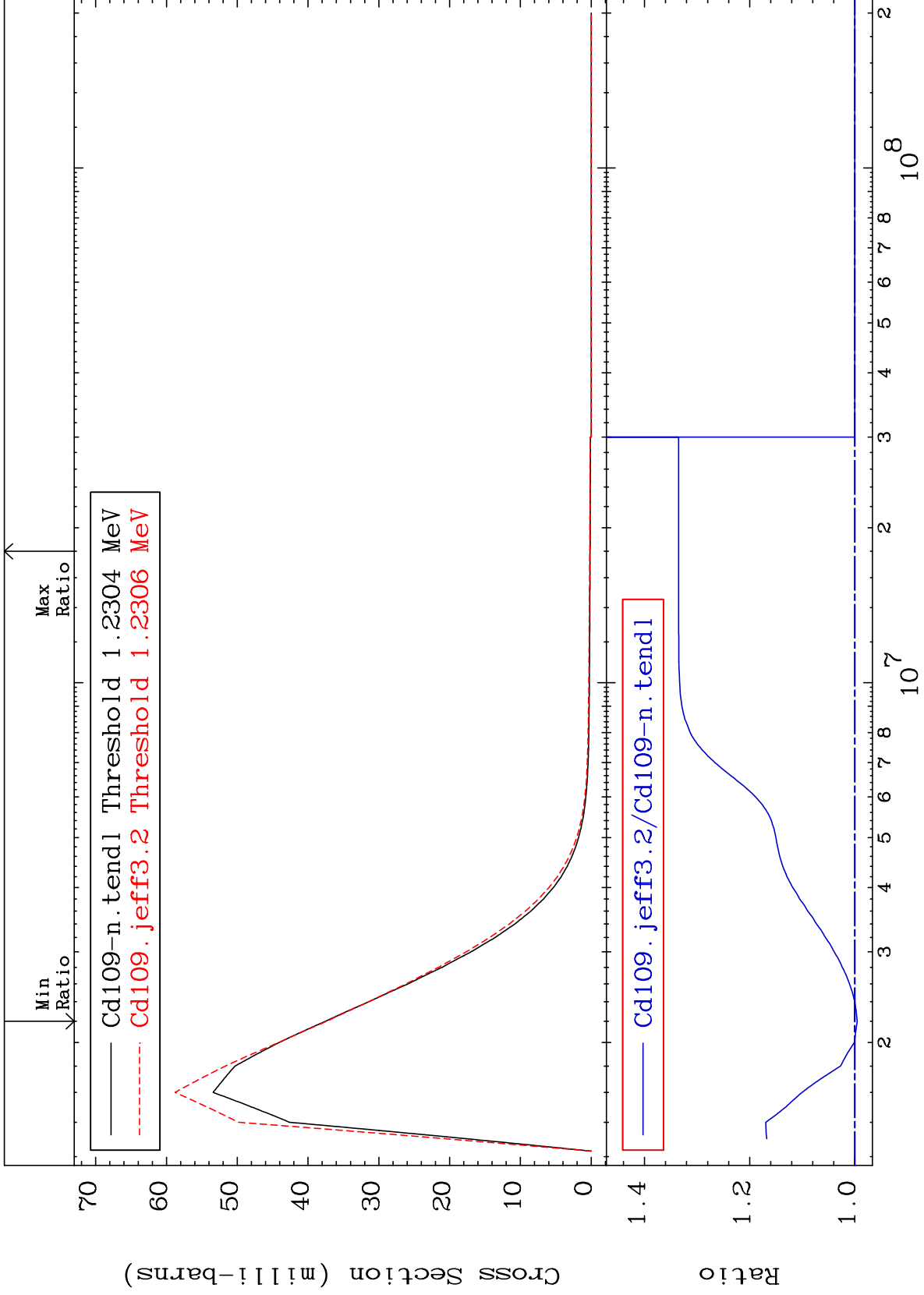
Incident Energy (eV)

48-Cd-109

MAT 4834

1.219 MeV (n,n') Level
Cross Section

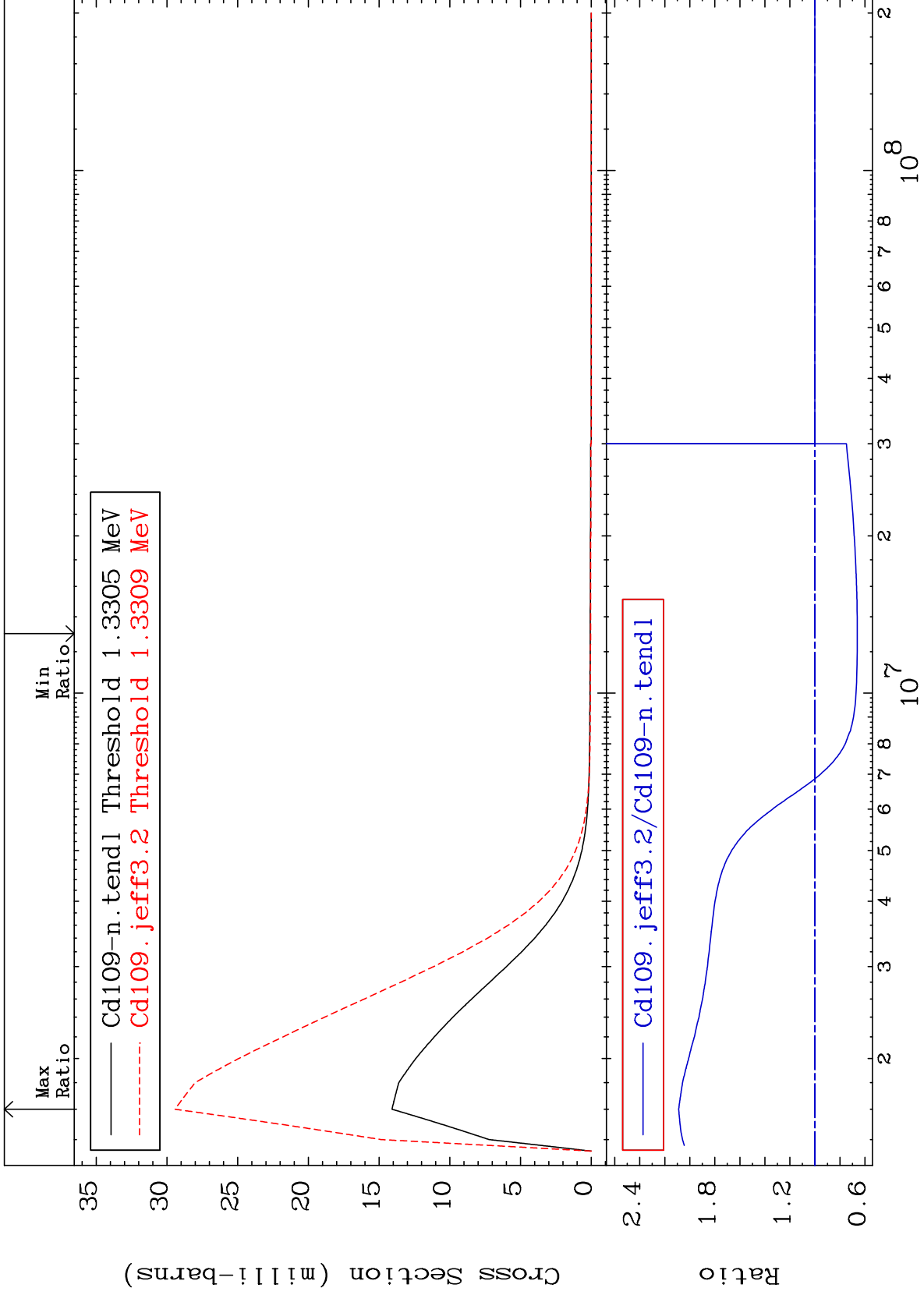
48-Cd-109
-0.463 To 33.51 %



MAT 4834

1.318 MeV (n,n') Level
Cross Section

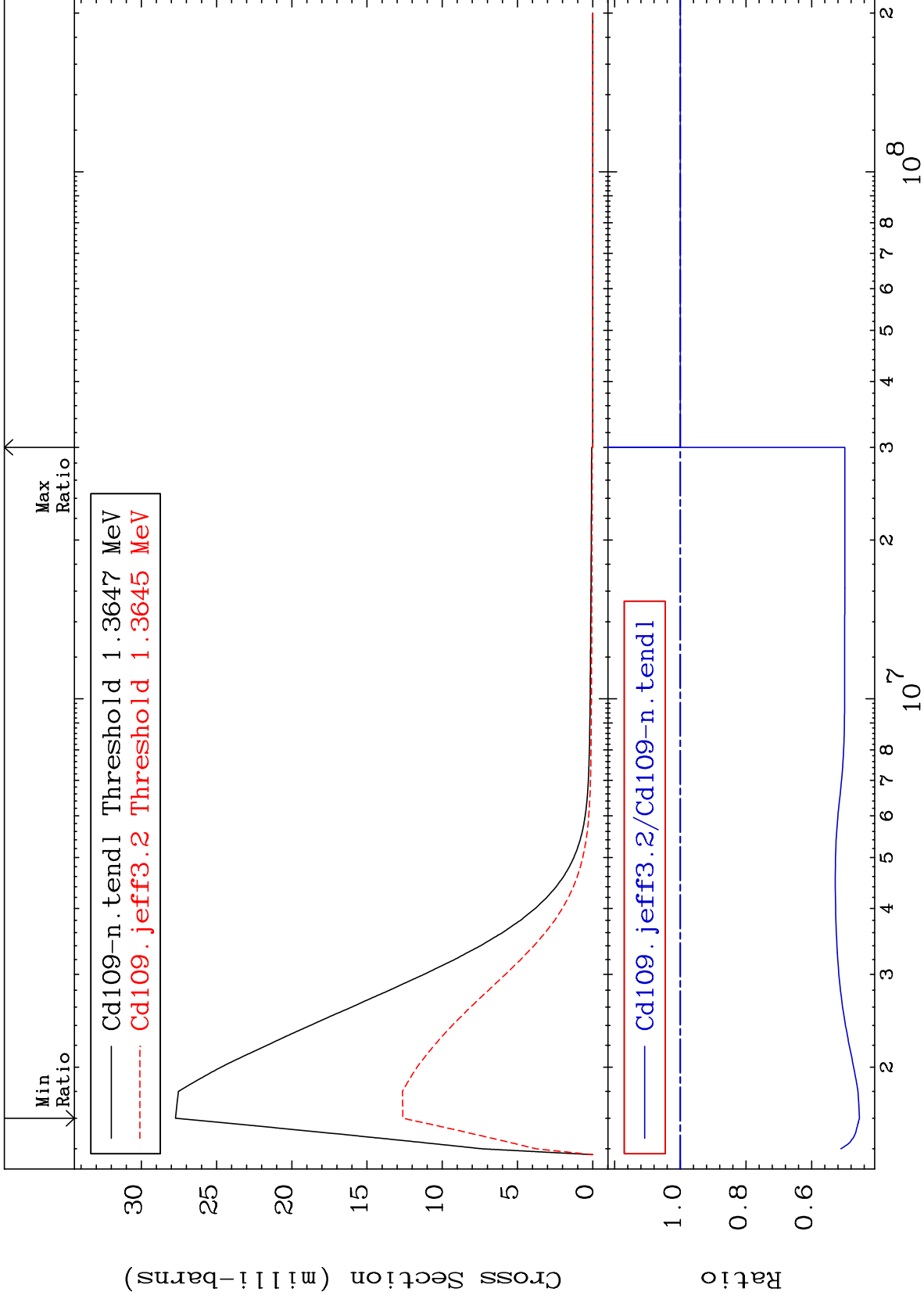
48-Cd-109
-33.83 To 108.9 %



MAT 4834

1.352 MeV (n,n') Level
Cross Section

48-Cd-109
-54.51 To 0.000 %



43

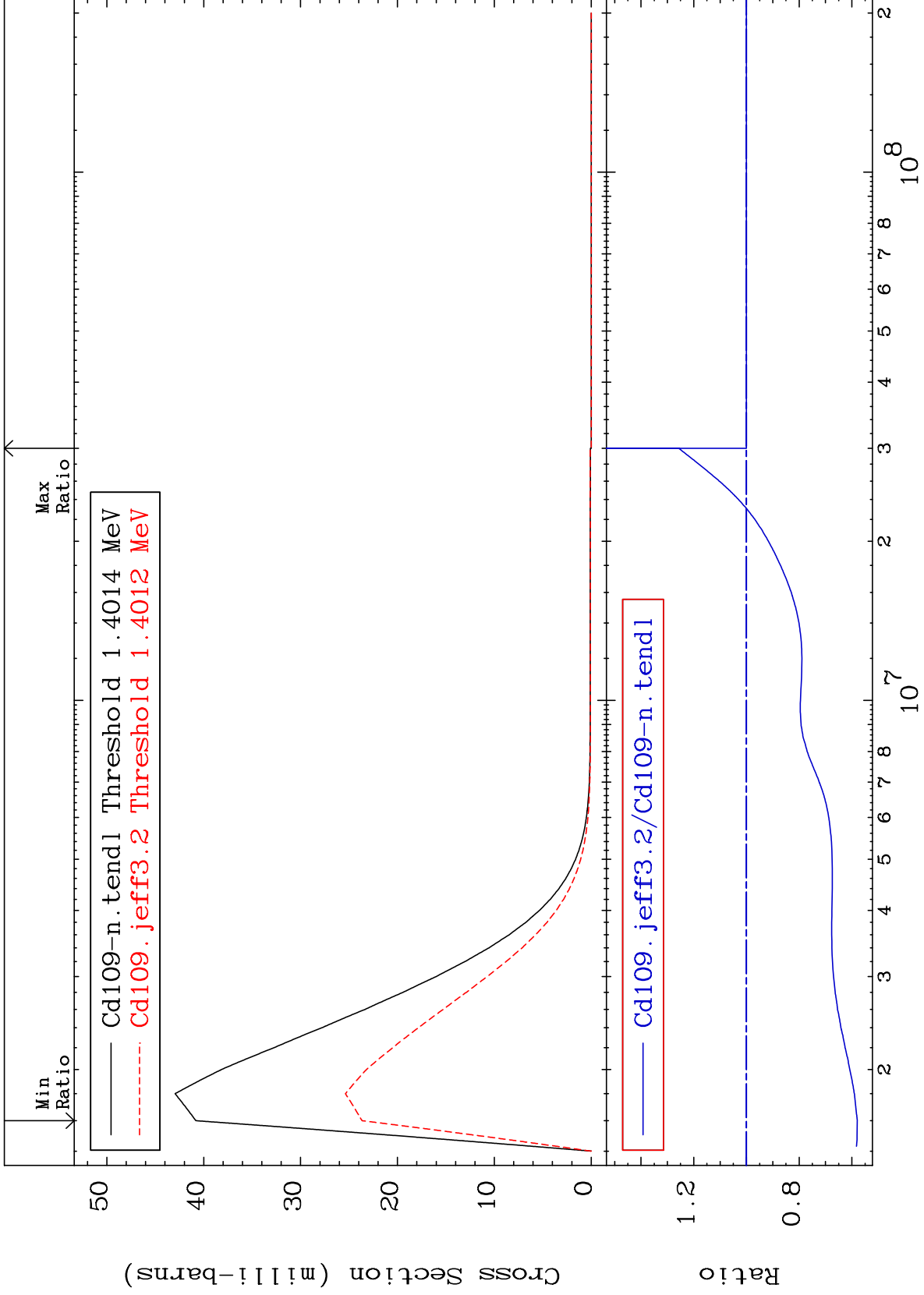
Incident Energy (eV)

48-Cd-109

MAT 4834

1.388 MeV (n,n') Level
Cross Section

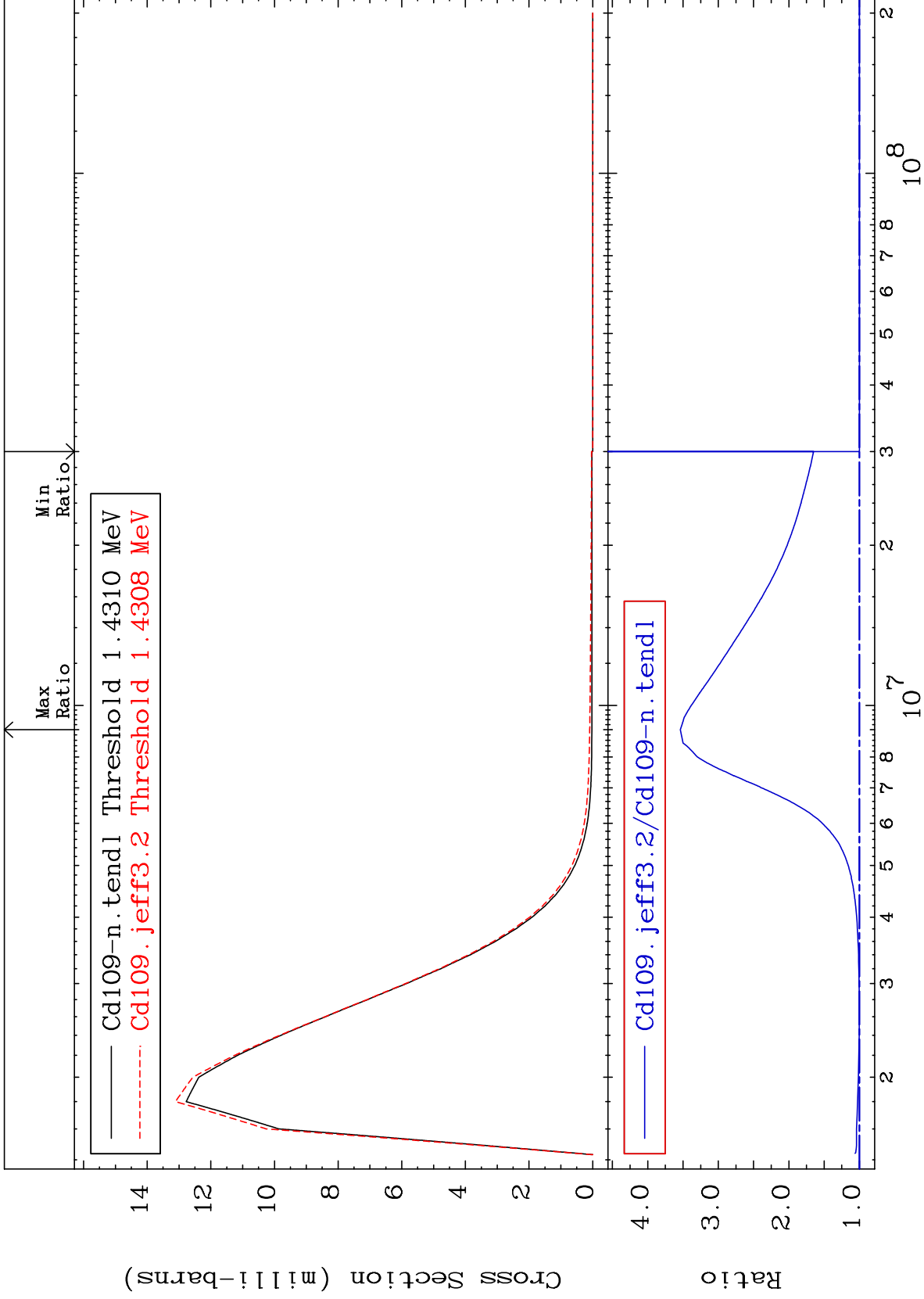
48-Cd-109
-42.04 To 25.73 %



MAT 4834

1.418 MeV (n,n') Level
Cross Section

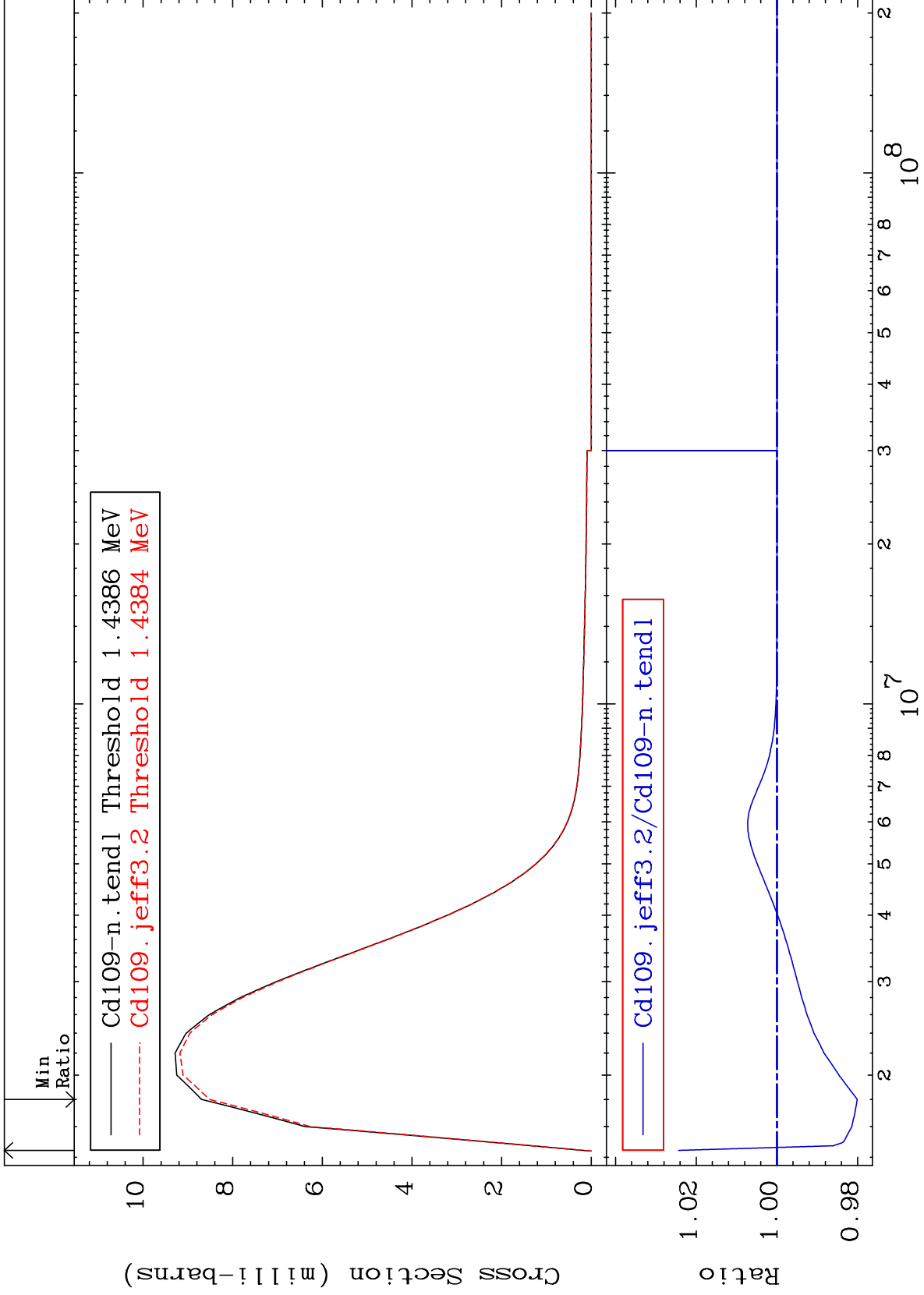
48-Cd-109
0.000 To 253.8 %



MAT 4834

1.425 MeV (n,n') Level
Cross Section

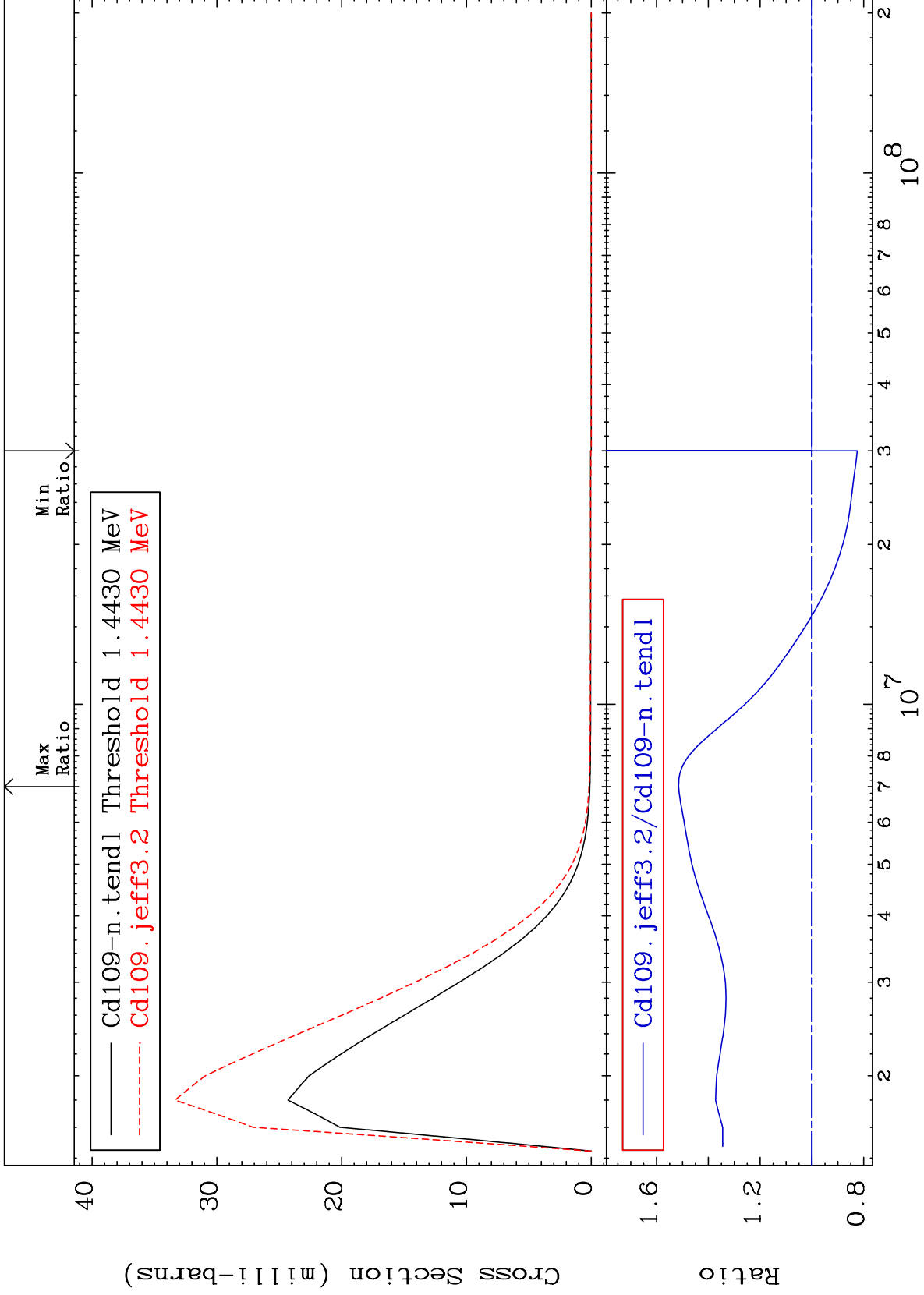
48-Cd-109
-1.990 To 2.436 %



MAT 4834

1.430 MeV (n,n') Level
Cross Section

48-Cd-109
-17.49 To 51.49 %



47

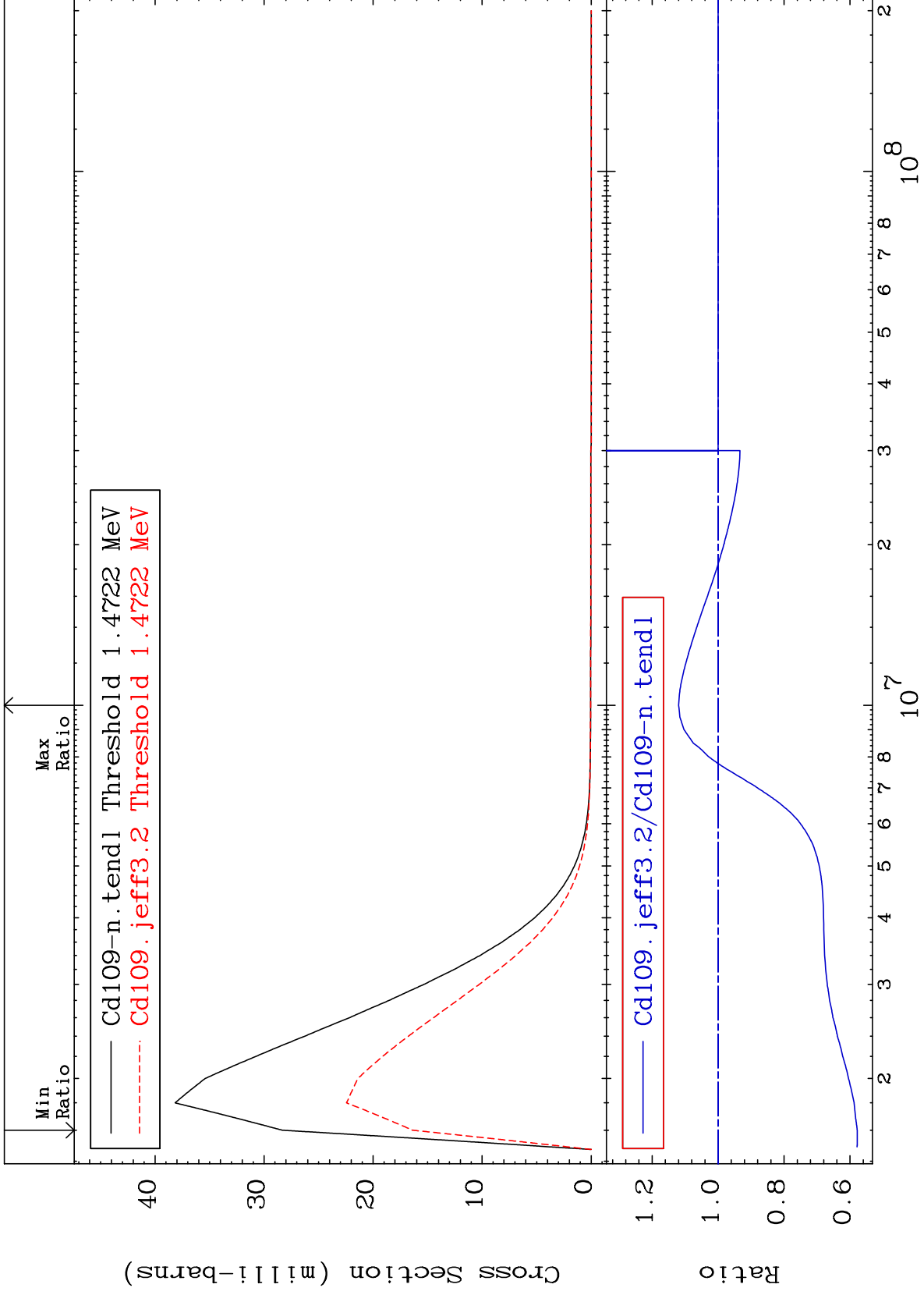
Incident Energy (eV)

48-Cd-109

MAT 4834

1.459 MeV (n,n') Level
Cross Section

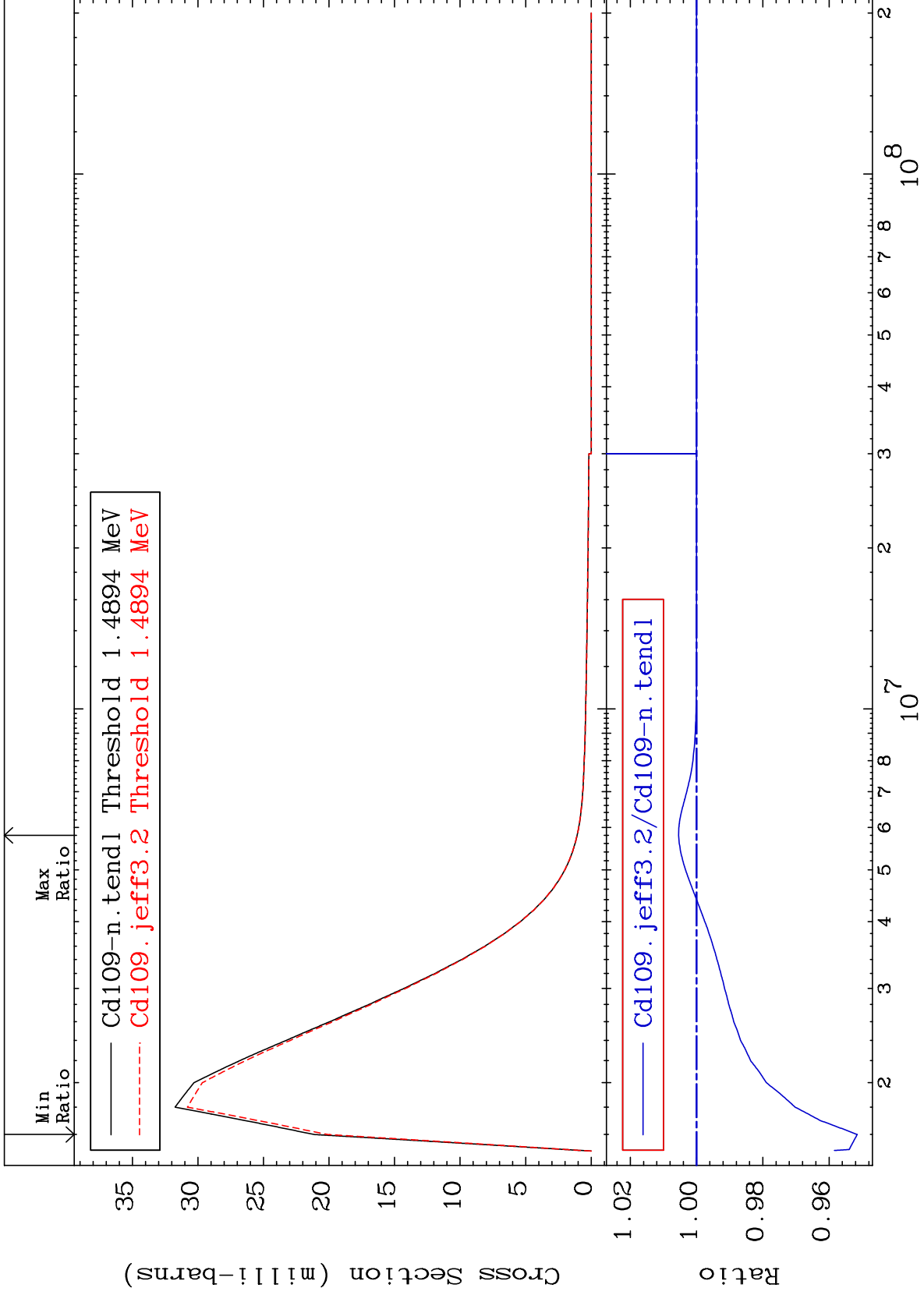
48-Cd-109
-42.18 To 11.97 %



MAT 4834

1.476 MeV (n,n') Level
Cross Section

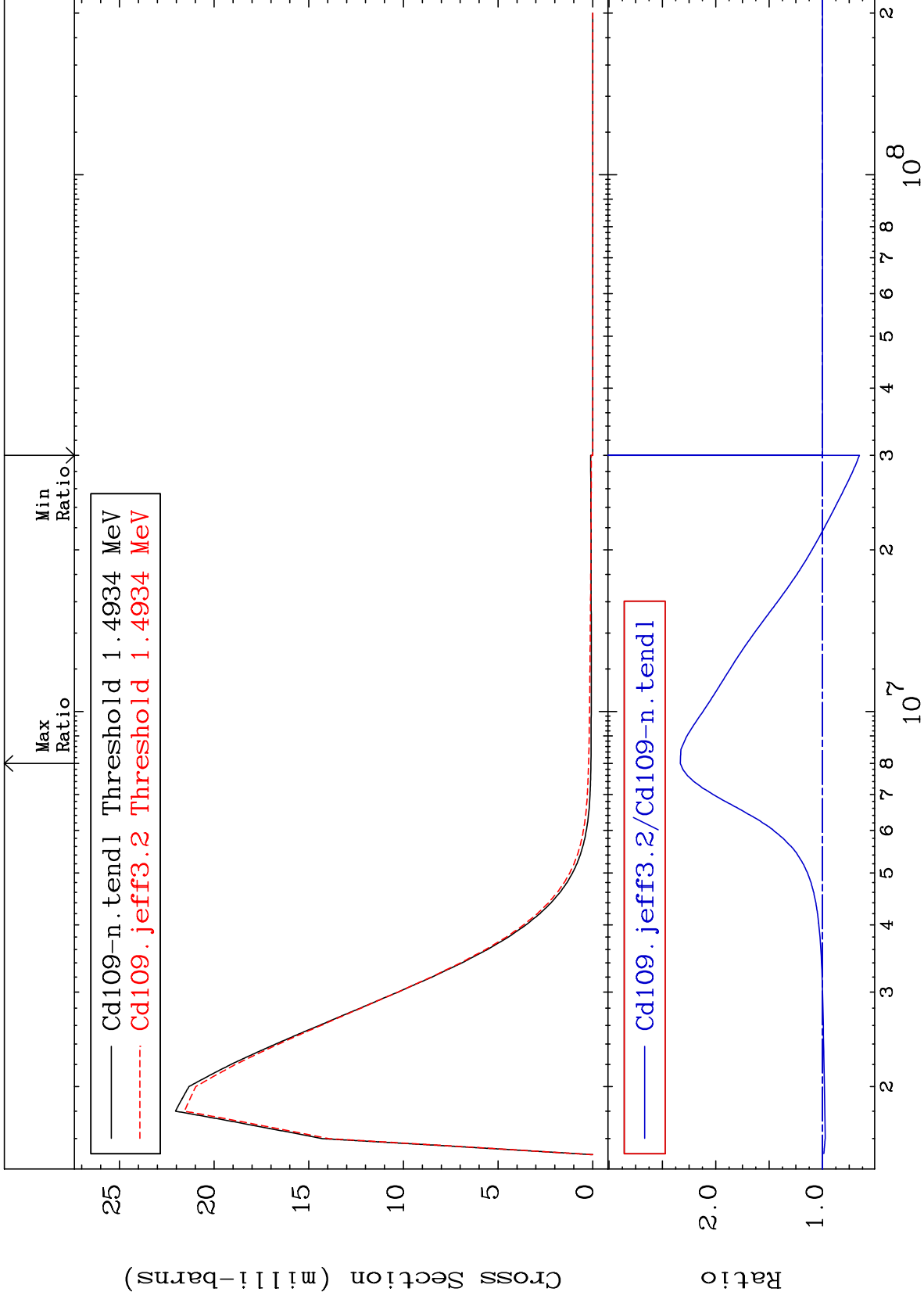
48-Cd-109
-4.851 To 0.542 %



MAT 4834

1.480 MeV (n,n') Level
Cross Section

48-Cd-109
-34.50 To 133.2 %



50

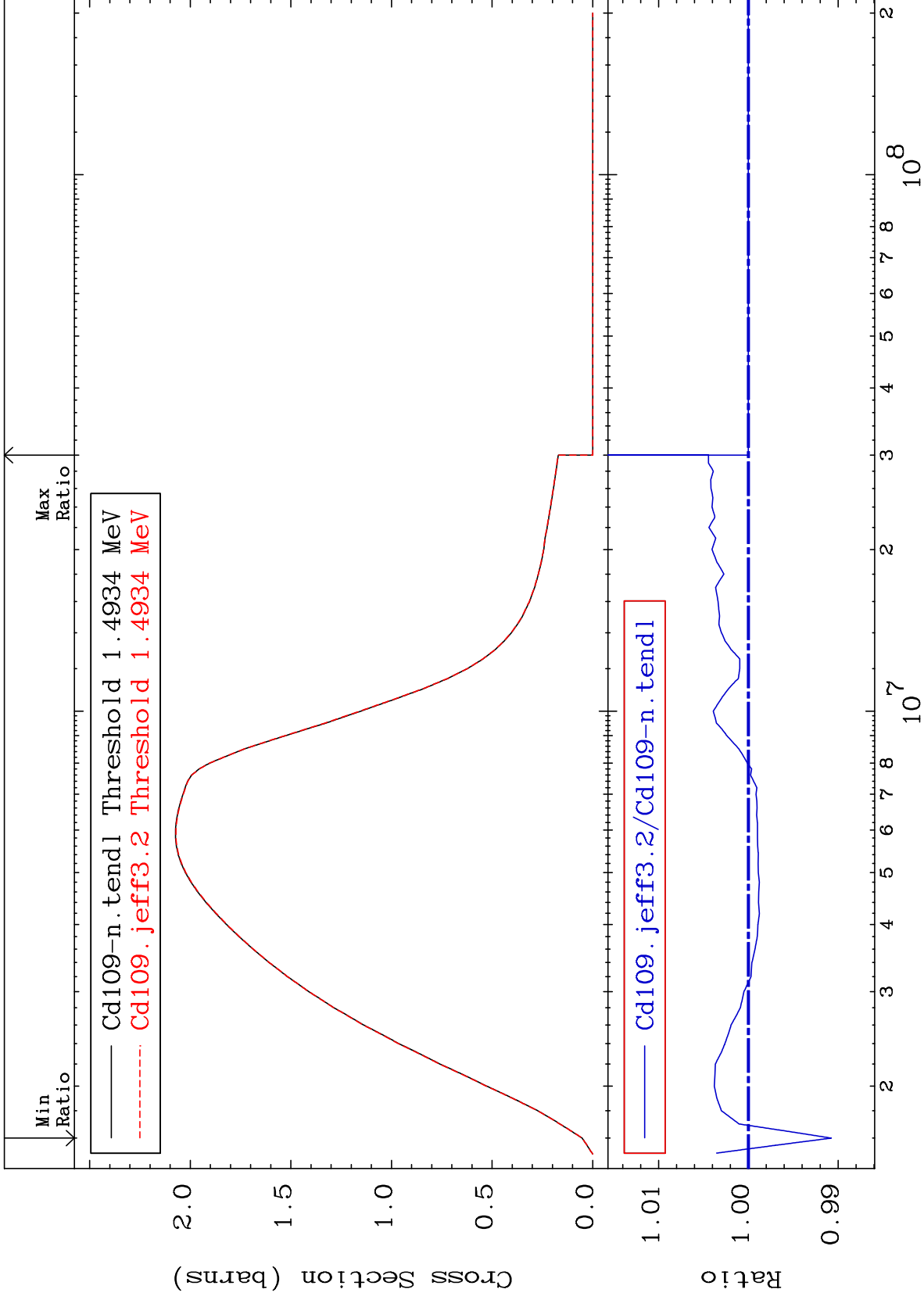
Incident Energy (eV)

48-Cd-109

MAT 4834

(n, n') Continuum
Cross Section

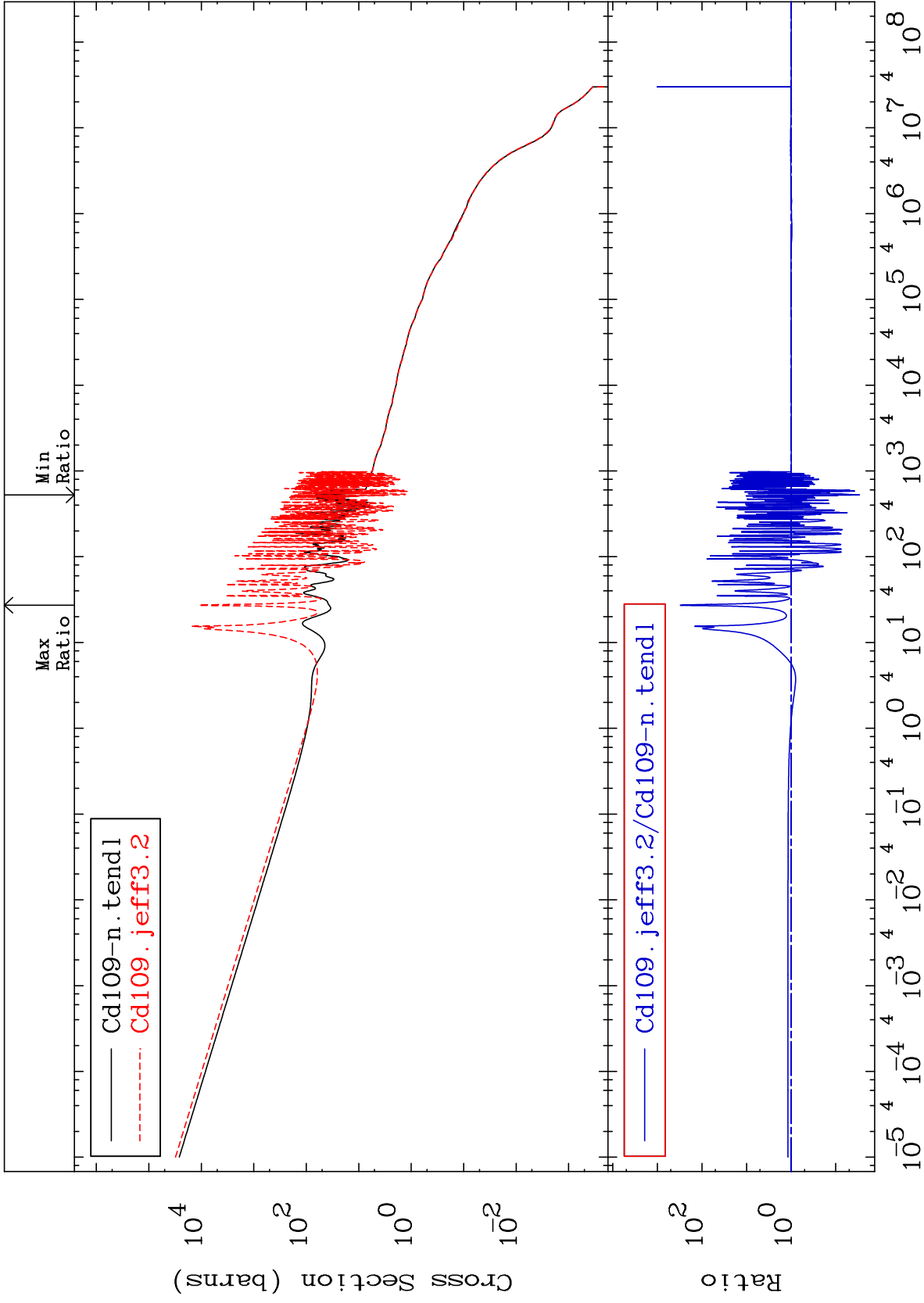
48-Cd-109
-0.925 To 0.444 %



MAT 4834

(n, γ)
Cross Section

48-Cd-109
-97.06 To 9999. %



52

48-Cd-109

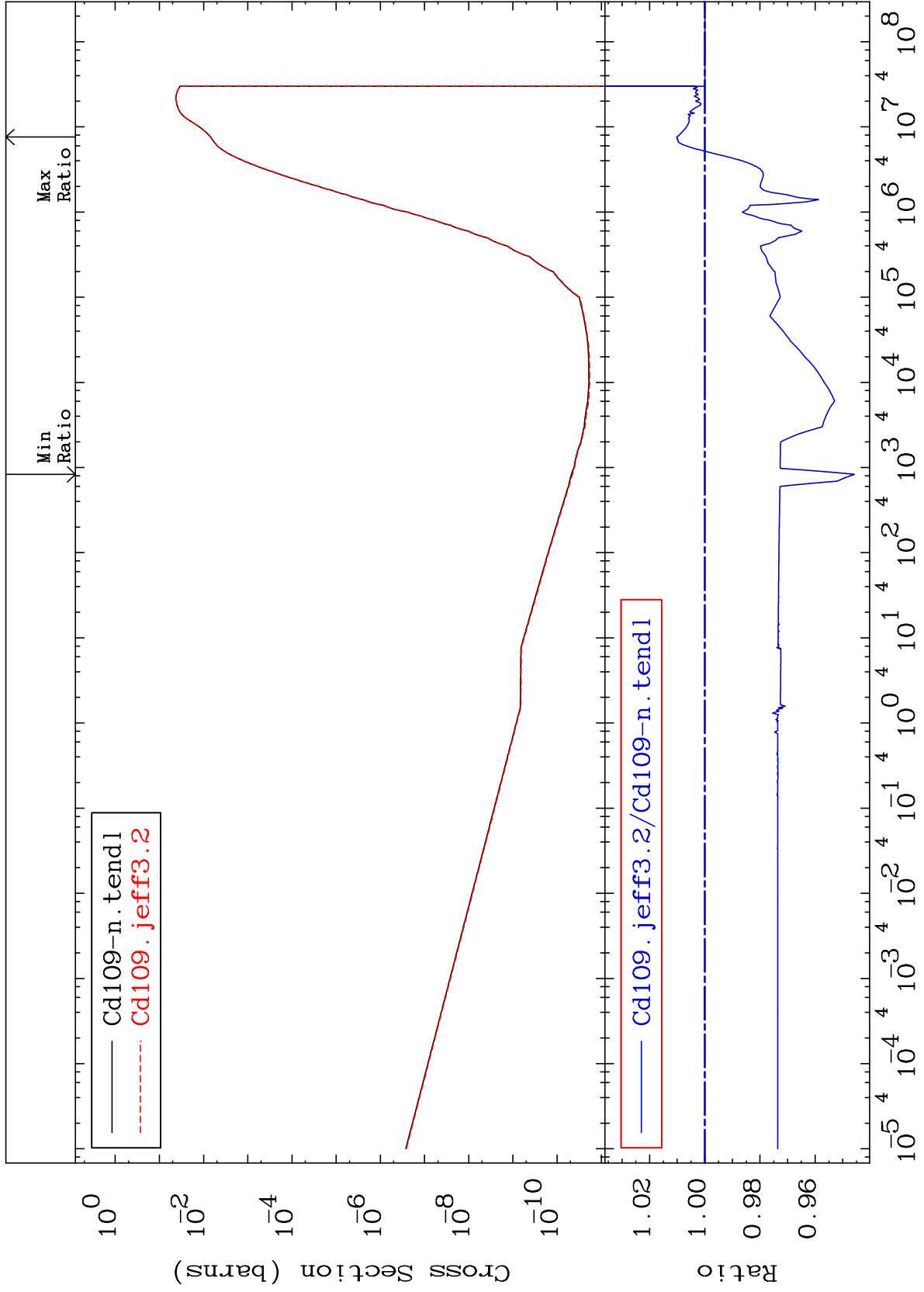
MAT 4834

(n,p)

48-Cd-109

Cross Section

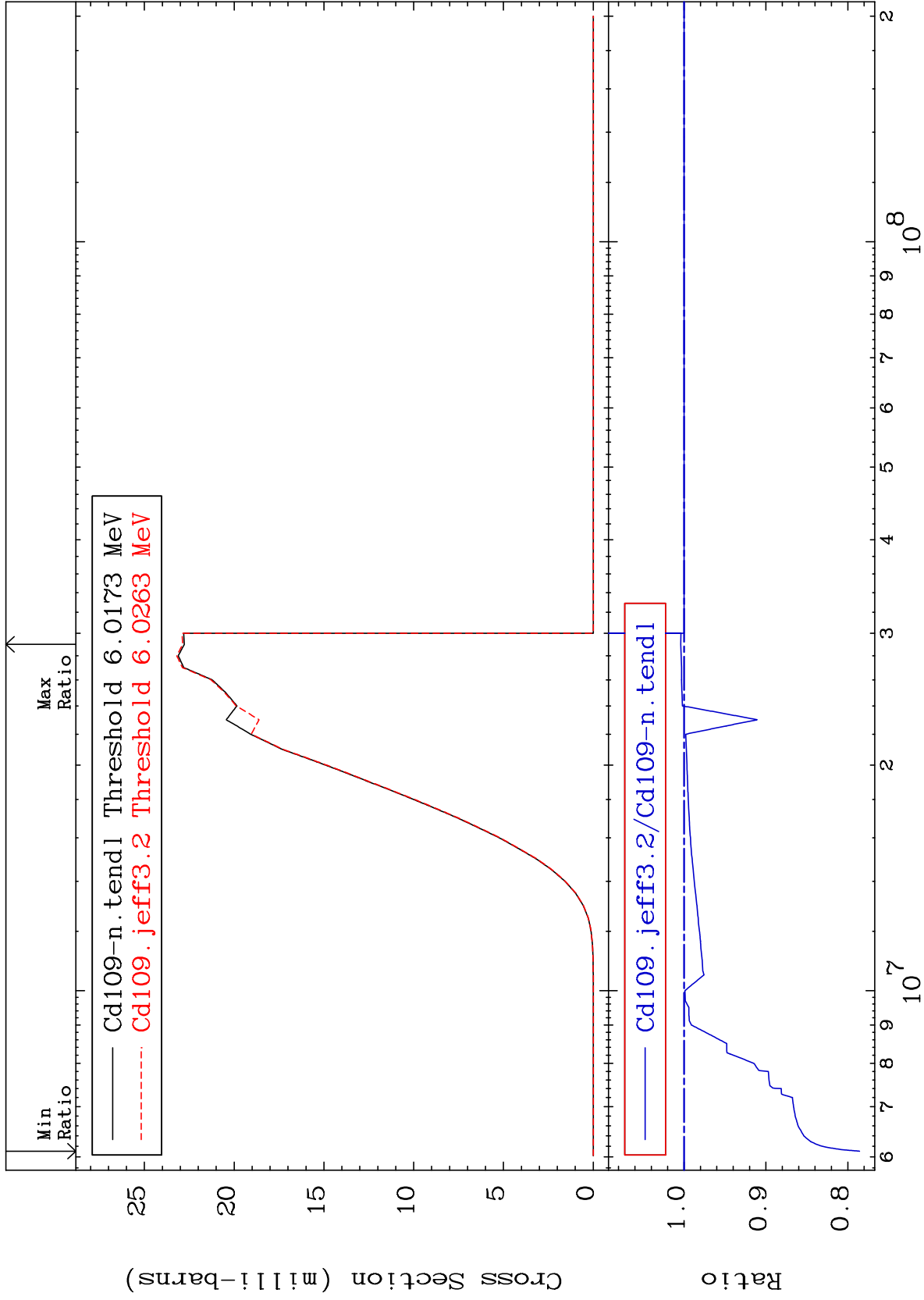
-5.424 To 1.016 %



MAT 4834

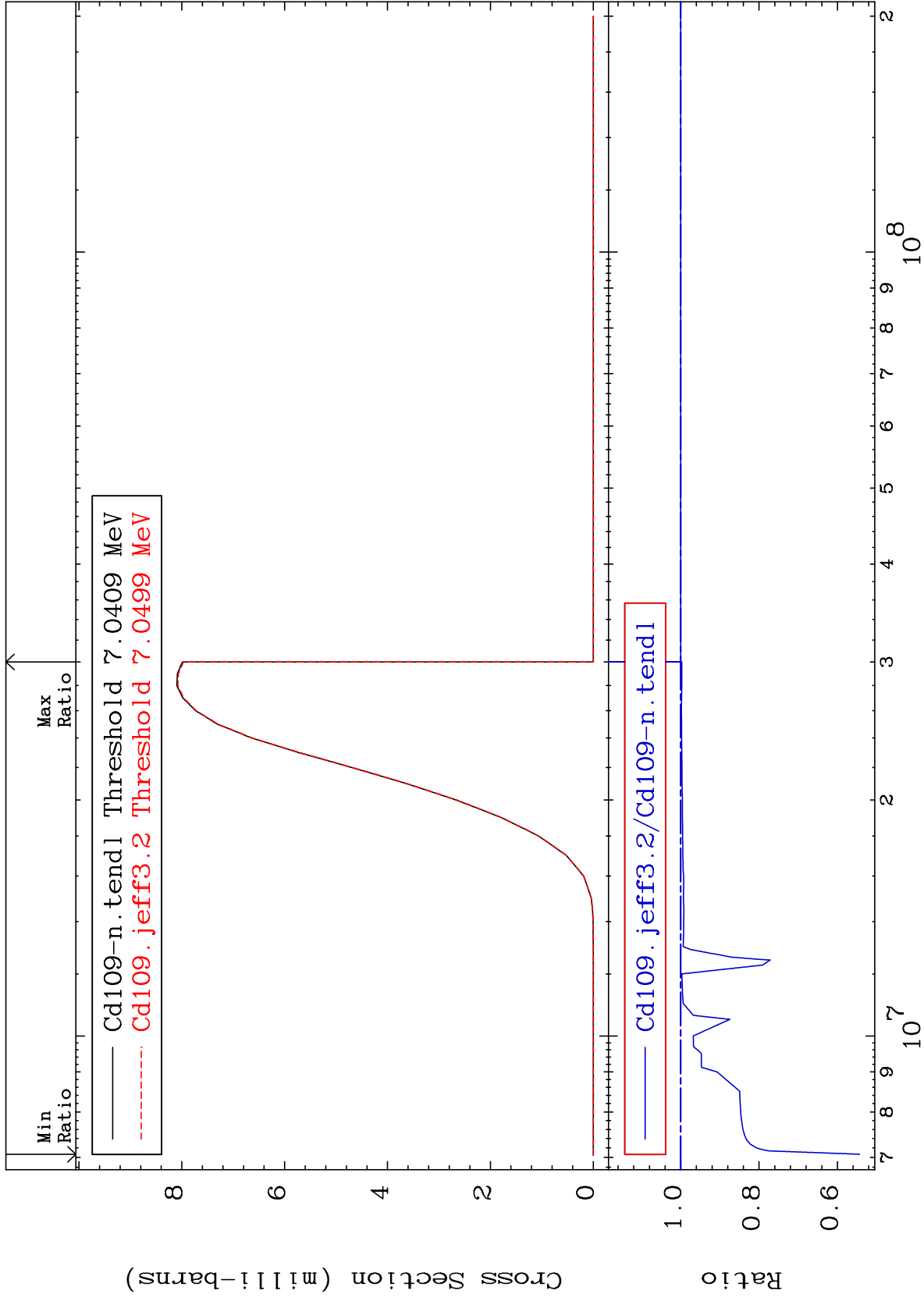
48-Cd-109

(n, d)
Cross Section
-21.43 To 0.400 %



MAT 4834

(n, t) Cross Section
48-Cd-109
-45.65 To 0.000 %



55

Incident Energy (eV)

48-Cd-109

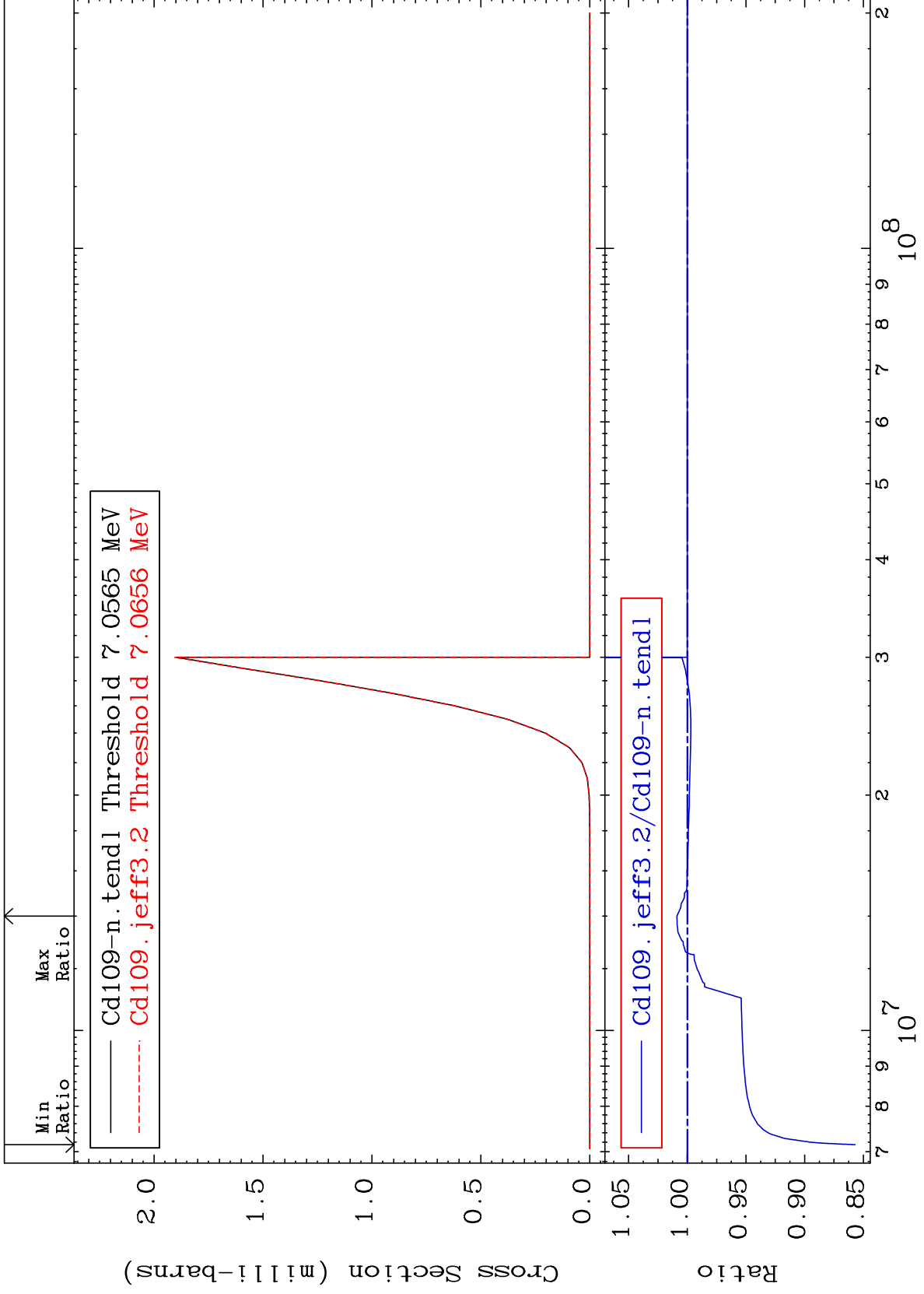
MAT 4834

(n, He-3)

48-Cd-109

Cross Section

-14.30 To 0.882 %



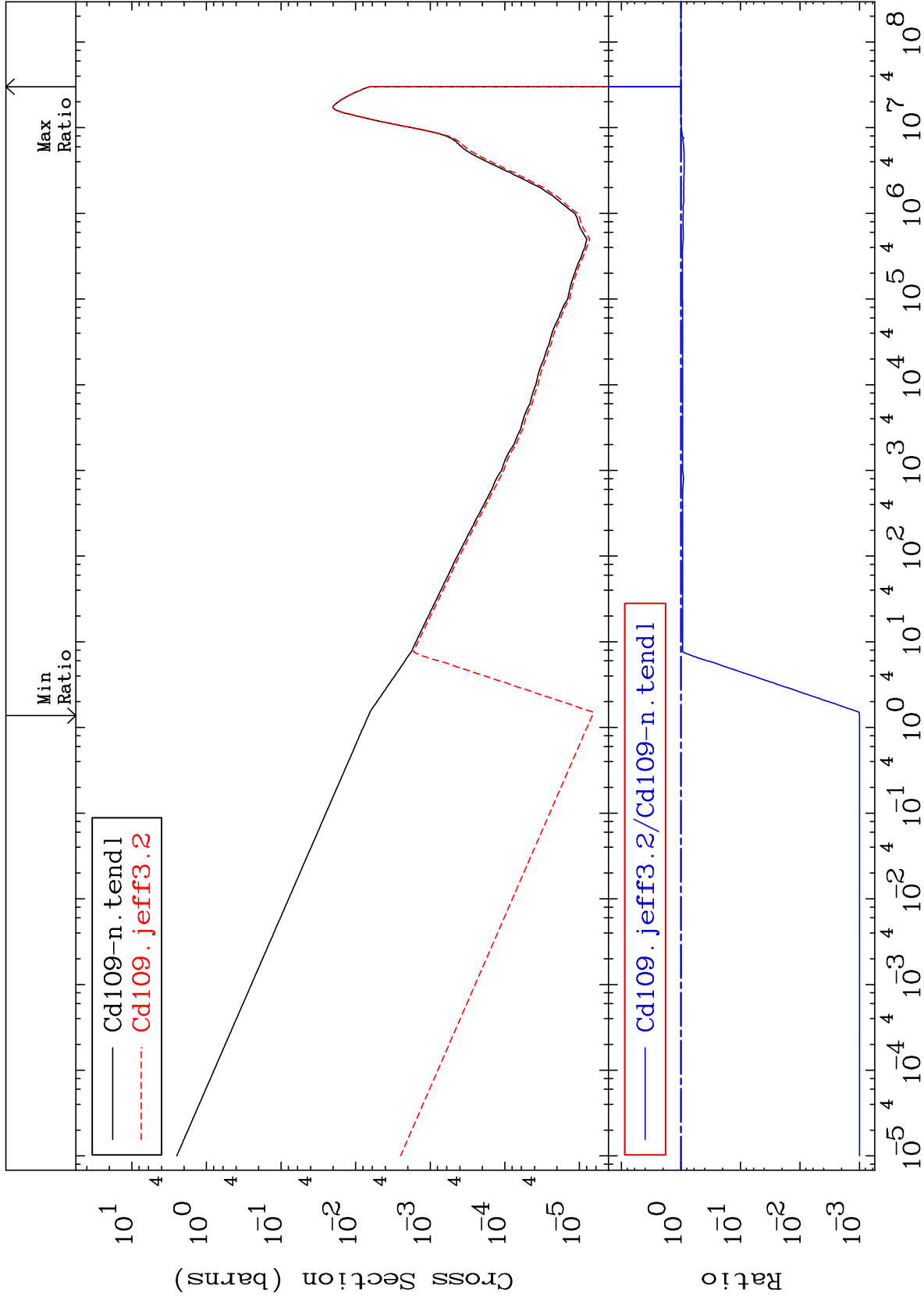
MAT 4834

(n, α)

48-Cd-109

Cross Section

-99.90 To 0.610 %



57

Incident Energy (eV)

48-Cd-109

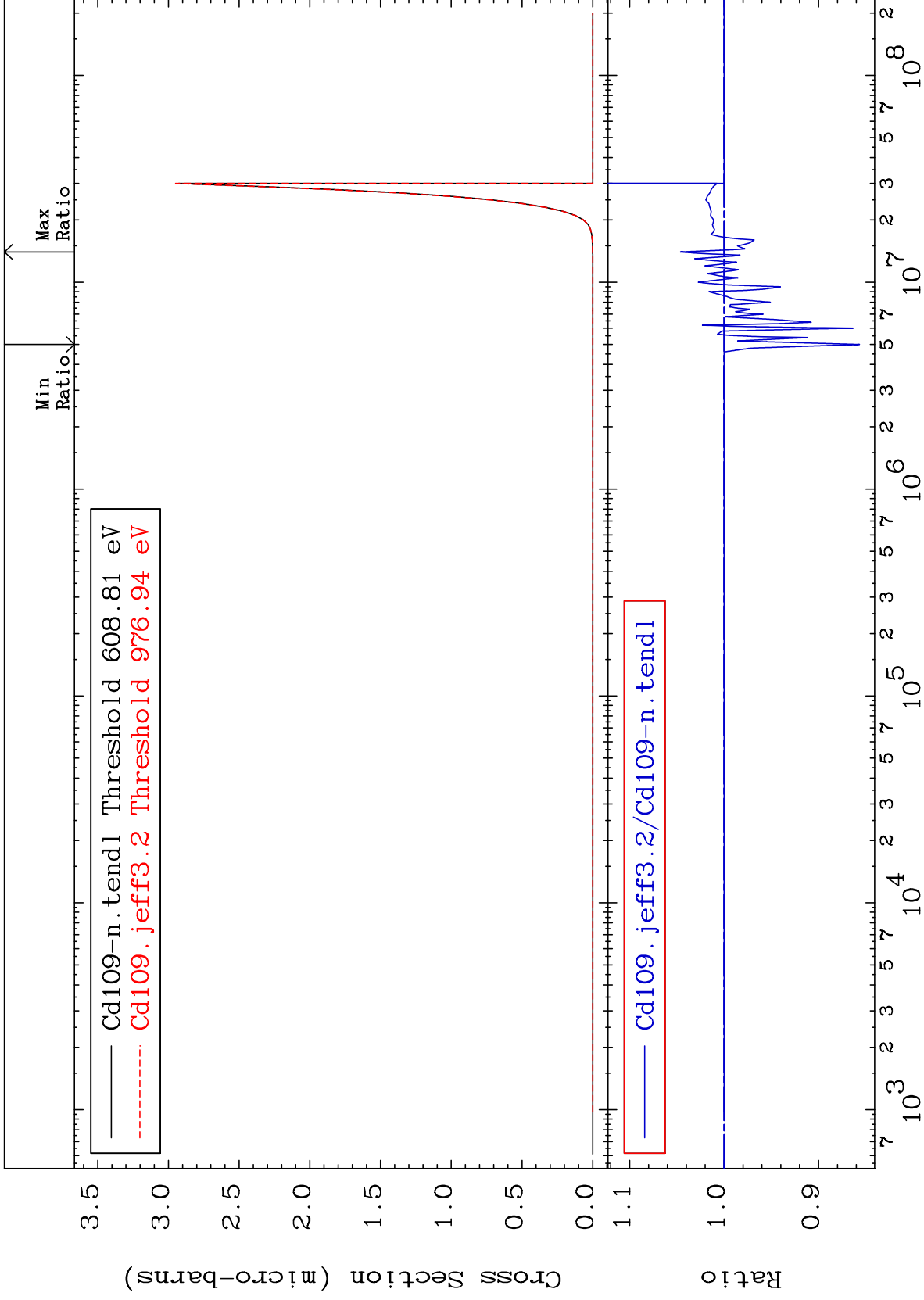
MAT 4834

(n,2α)

Cross Section

48-Cd-109

-14.32 To 4.630 %



58

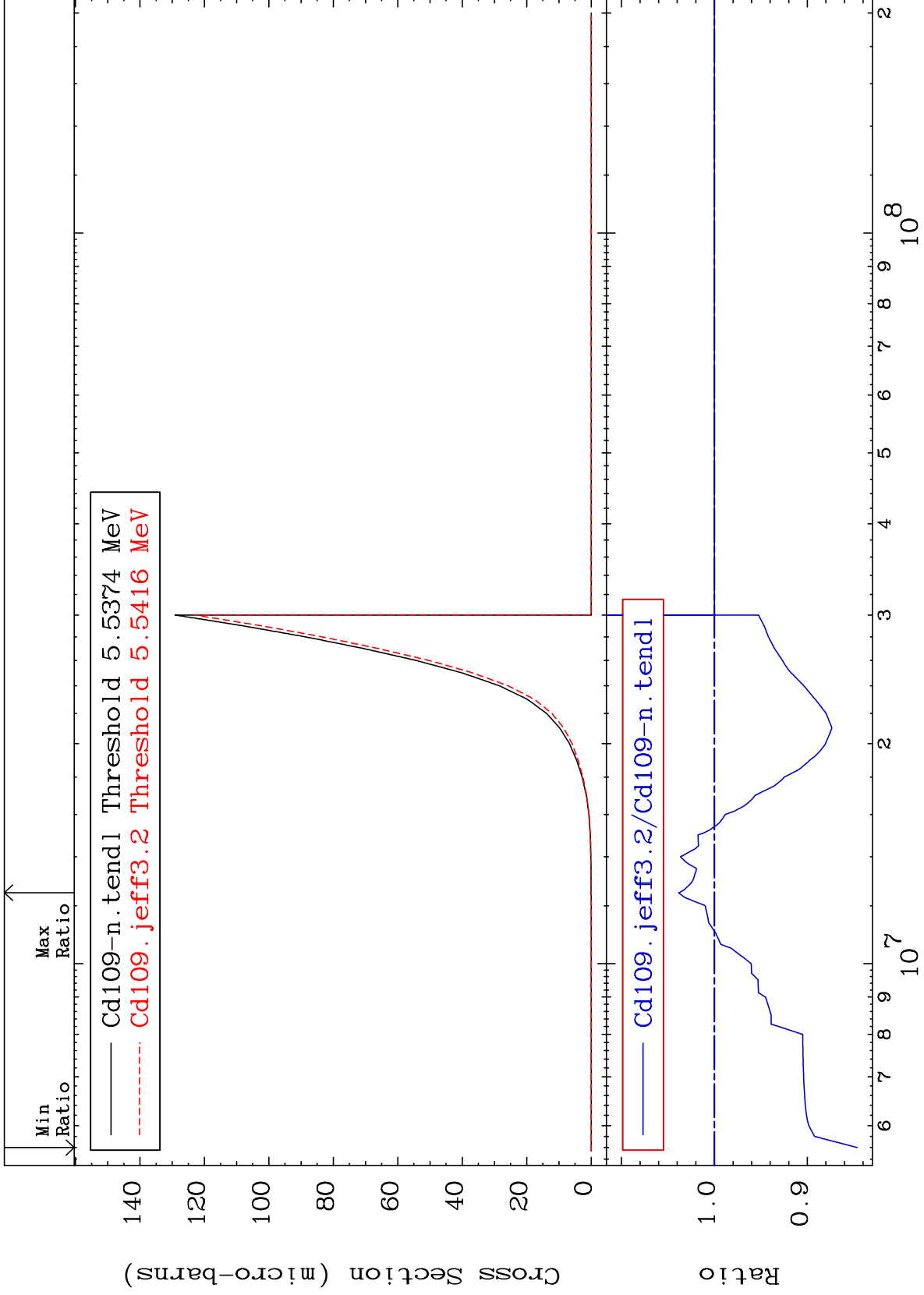
Incident Energy (eV)

48-Cd-109

MAT 4834

(n,2p)
Cross Section

48-Cd-109
-15.37 To 3.848 %



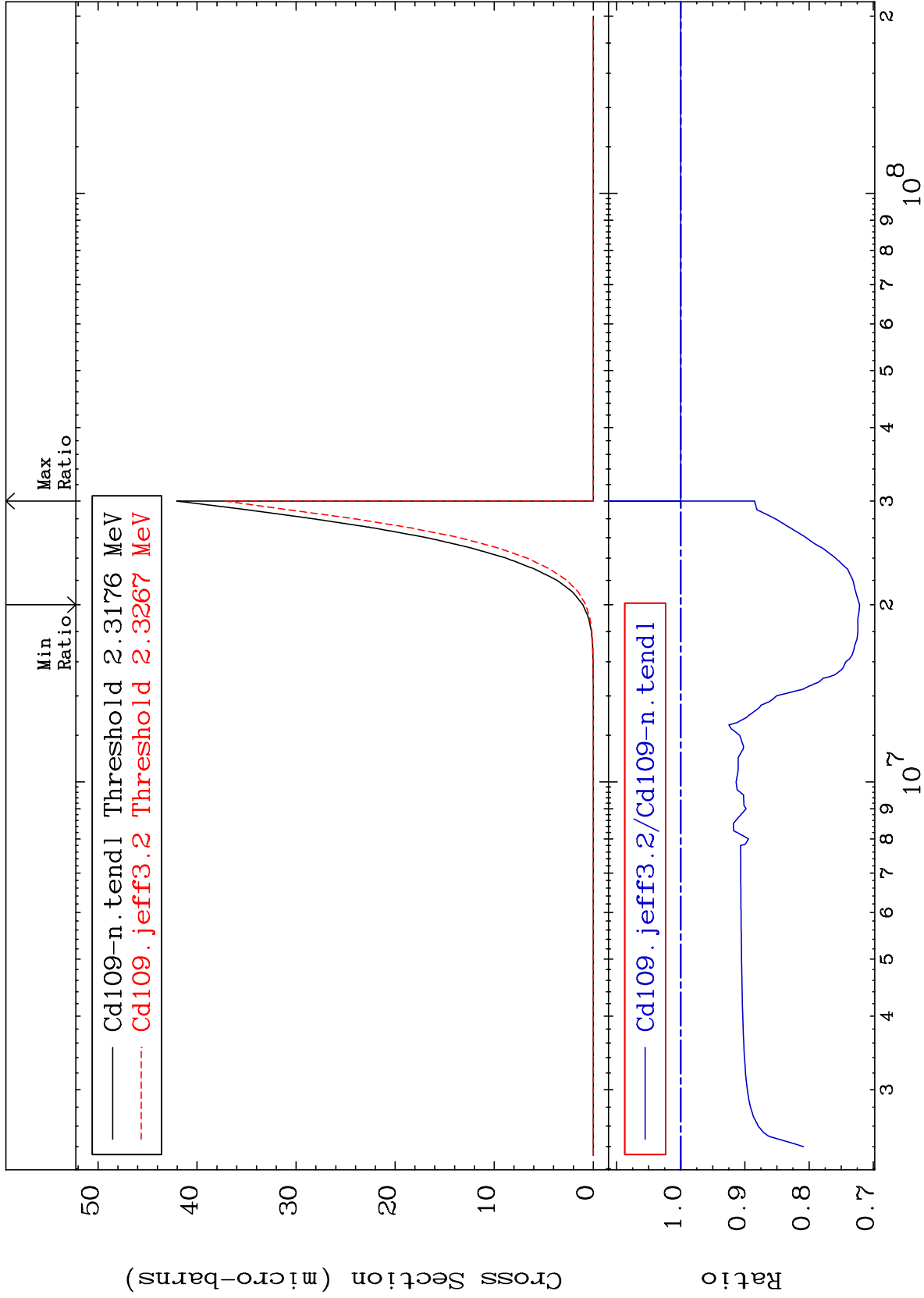
MAT 4834

(n, p) α

48-Cd-109

Cross Section

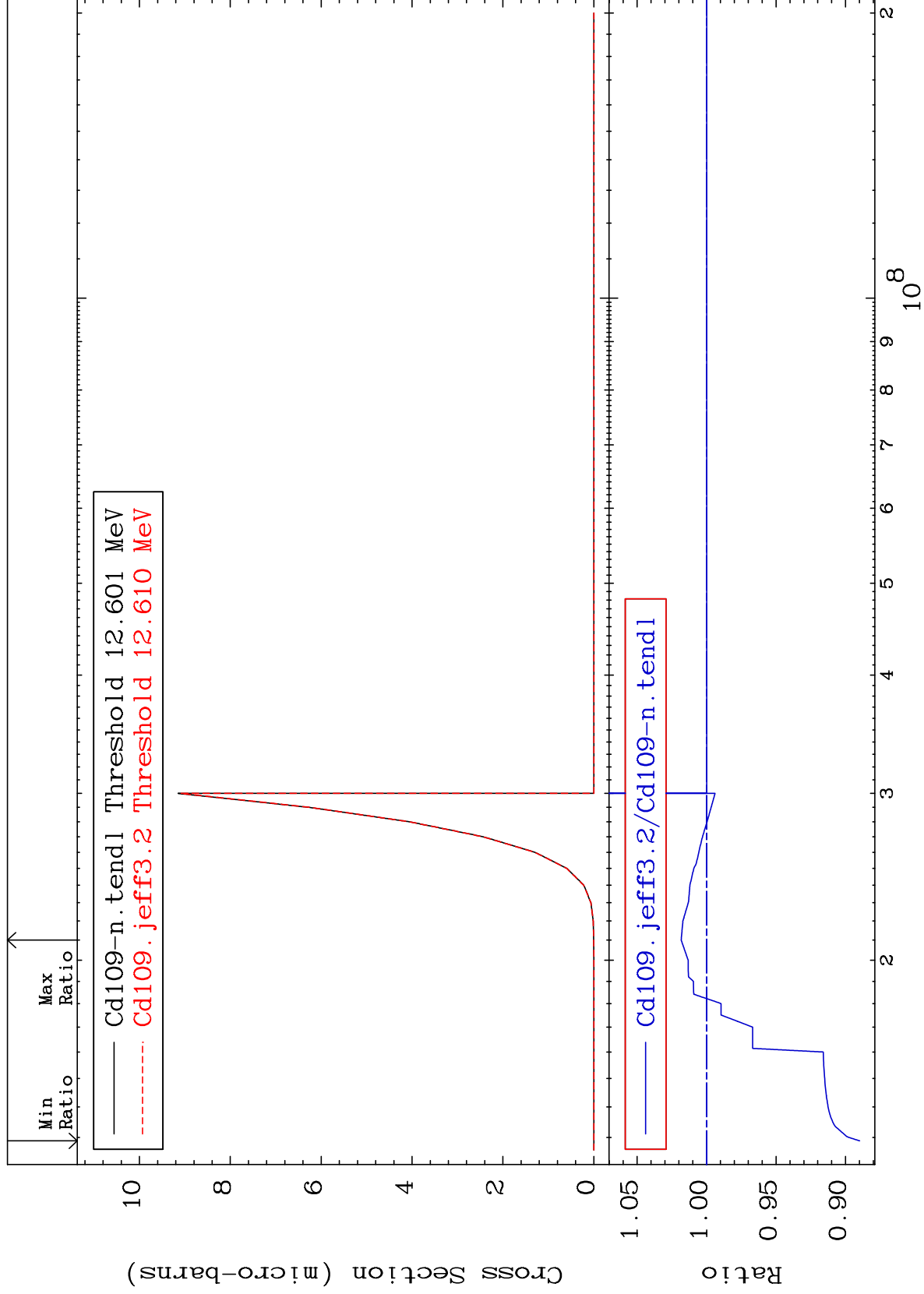
-27.87 To 0.000 %



MAT 4834

(n,p) d
Cross Section

48-Cd-109
-11.01 To 1.829 %



61

Incident Energy (eV)

48-Cd-109

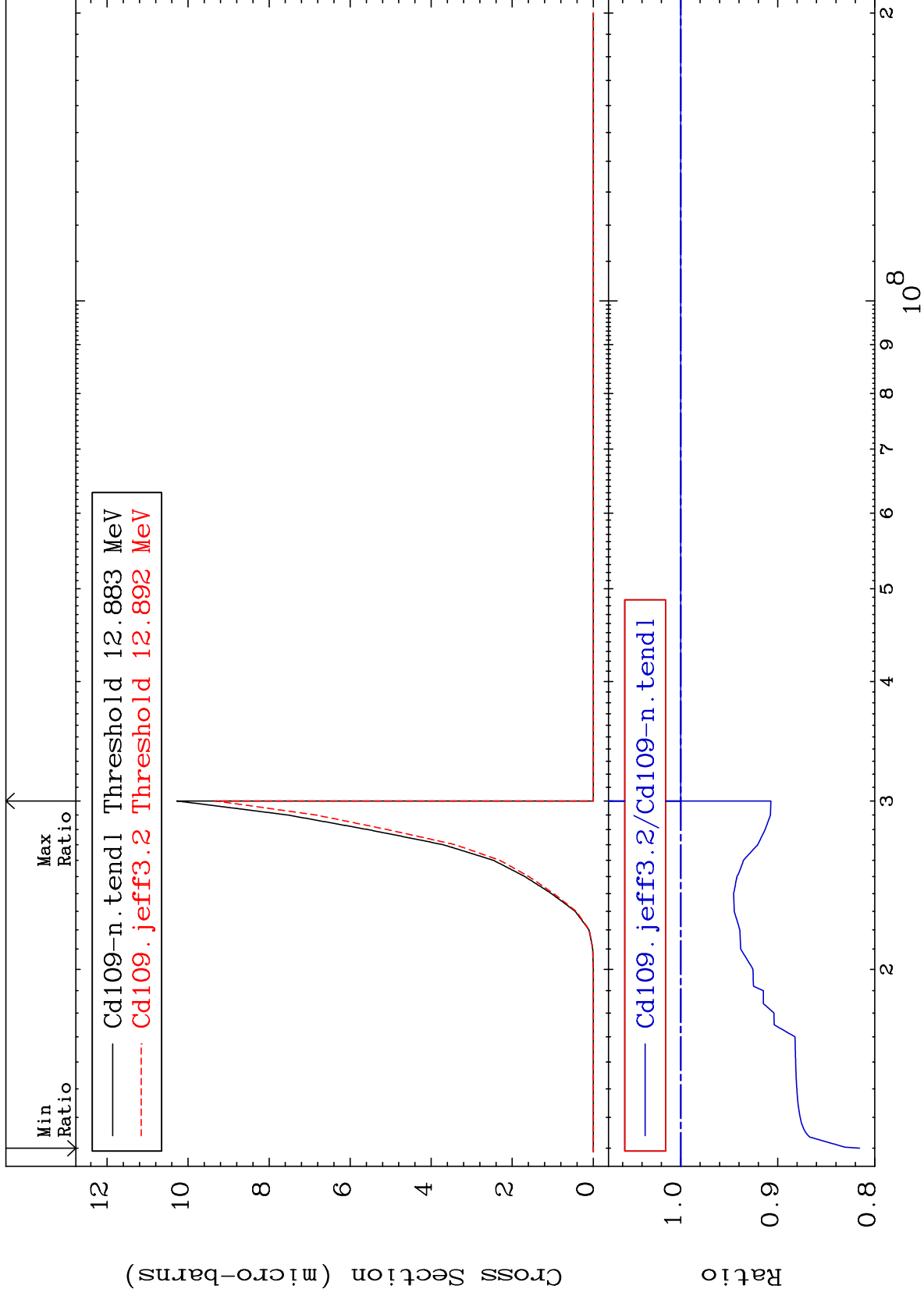
MAT 4834

(n,p) t

48-Cd-109

Cross Section

-18.44 To 0.000 %



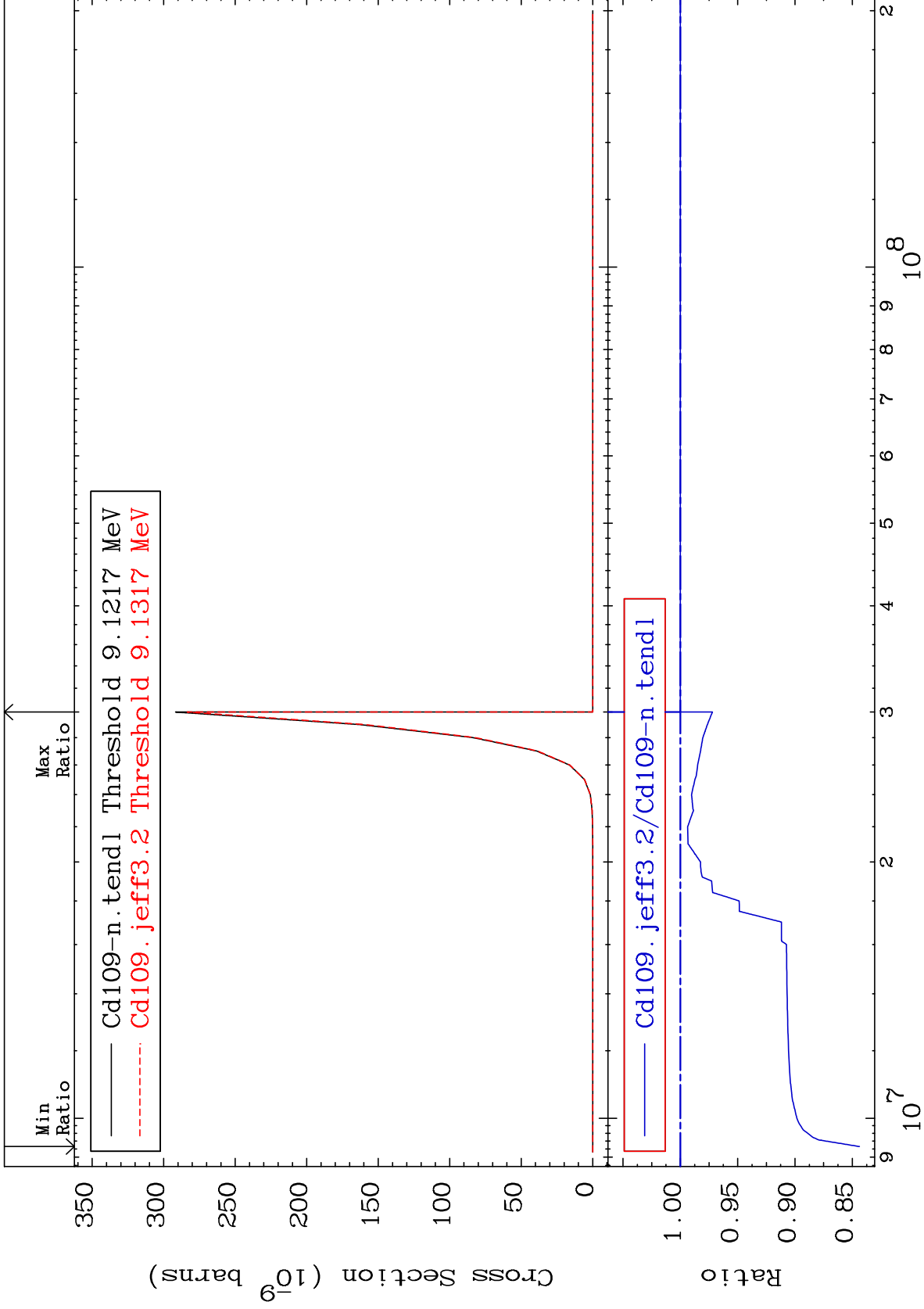
MAT 4834

(n,d) α

48-Cd-109

Cross Section

-15.62 To 0.000 %



63

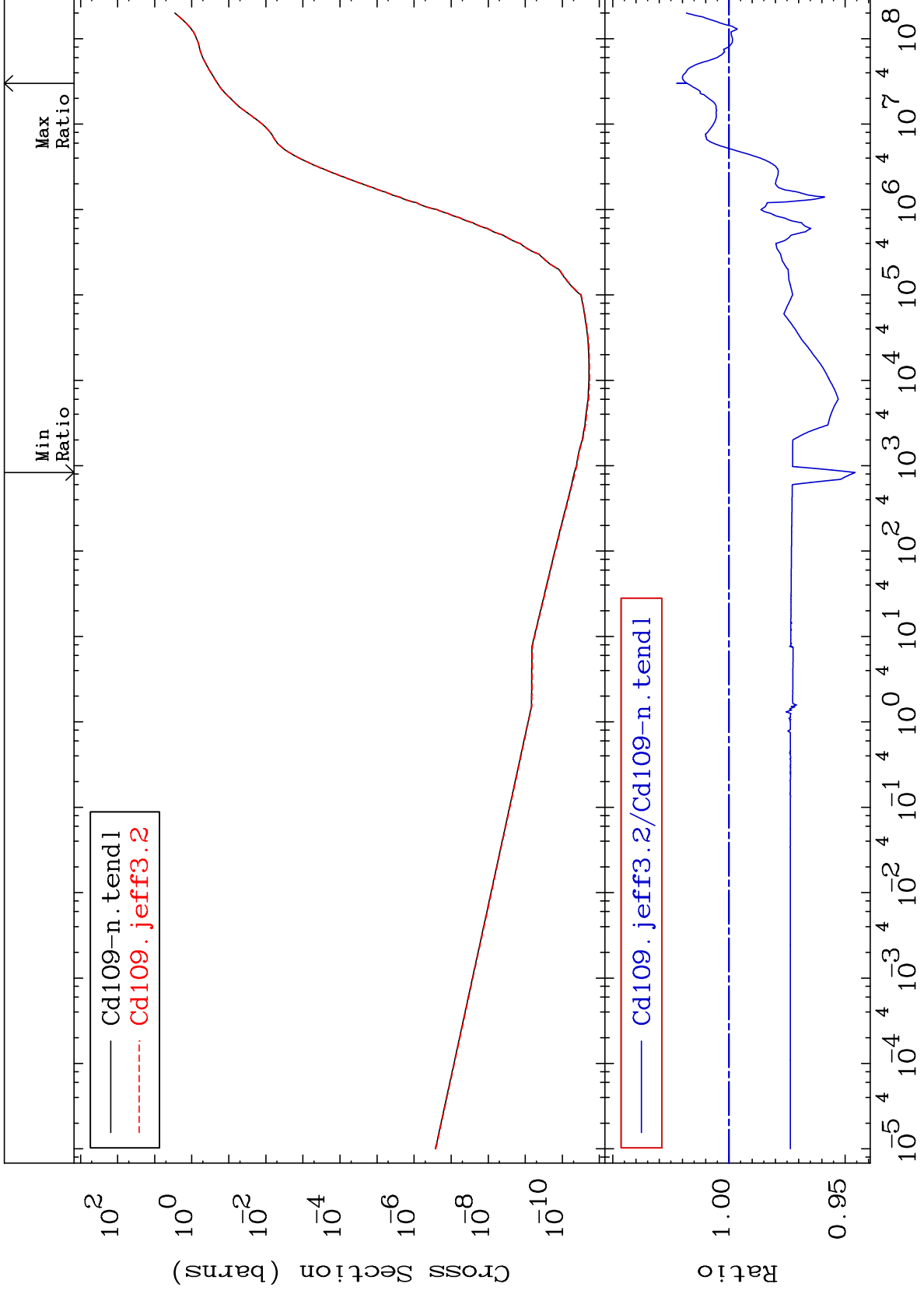
Incident Energy (eV)

48-Cd-109

MAT 4834

Hydrogen Production
Cross Section

48-Cd-109
-5.424 To 2.241 %



64

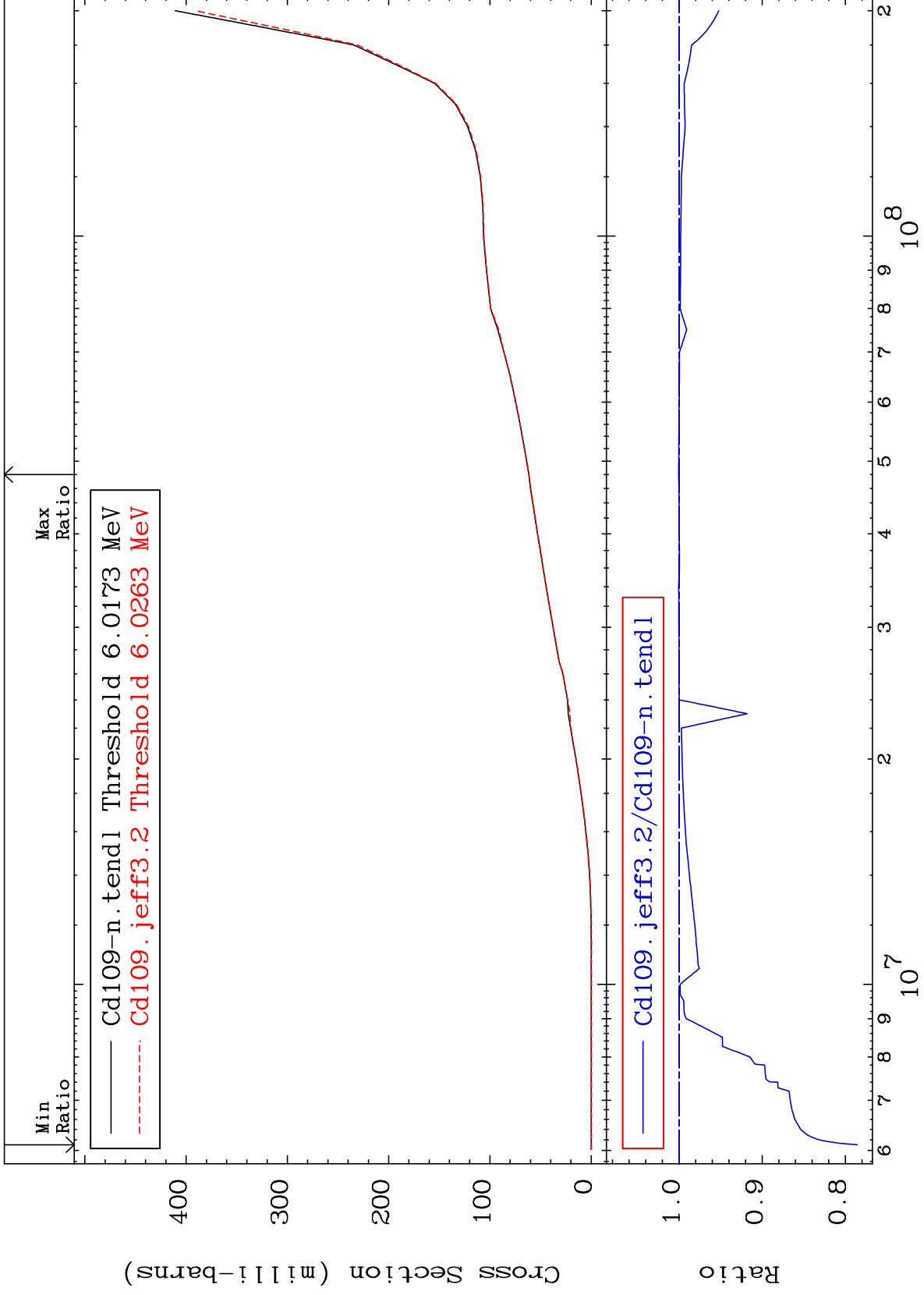
Incident Energy (eV)

48-Cd-109

MAT 4834

Deuterium Production
Cross Section

48-Cd-109
-21.43 To 0.048 %



65

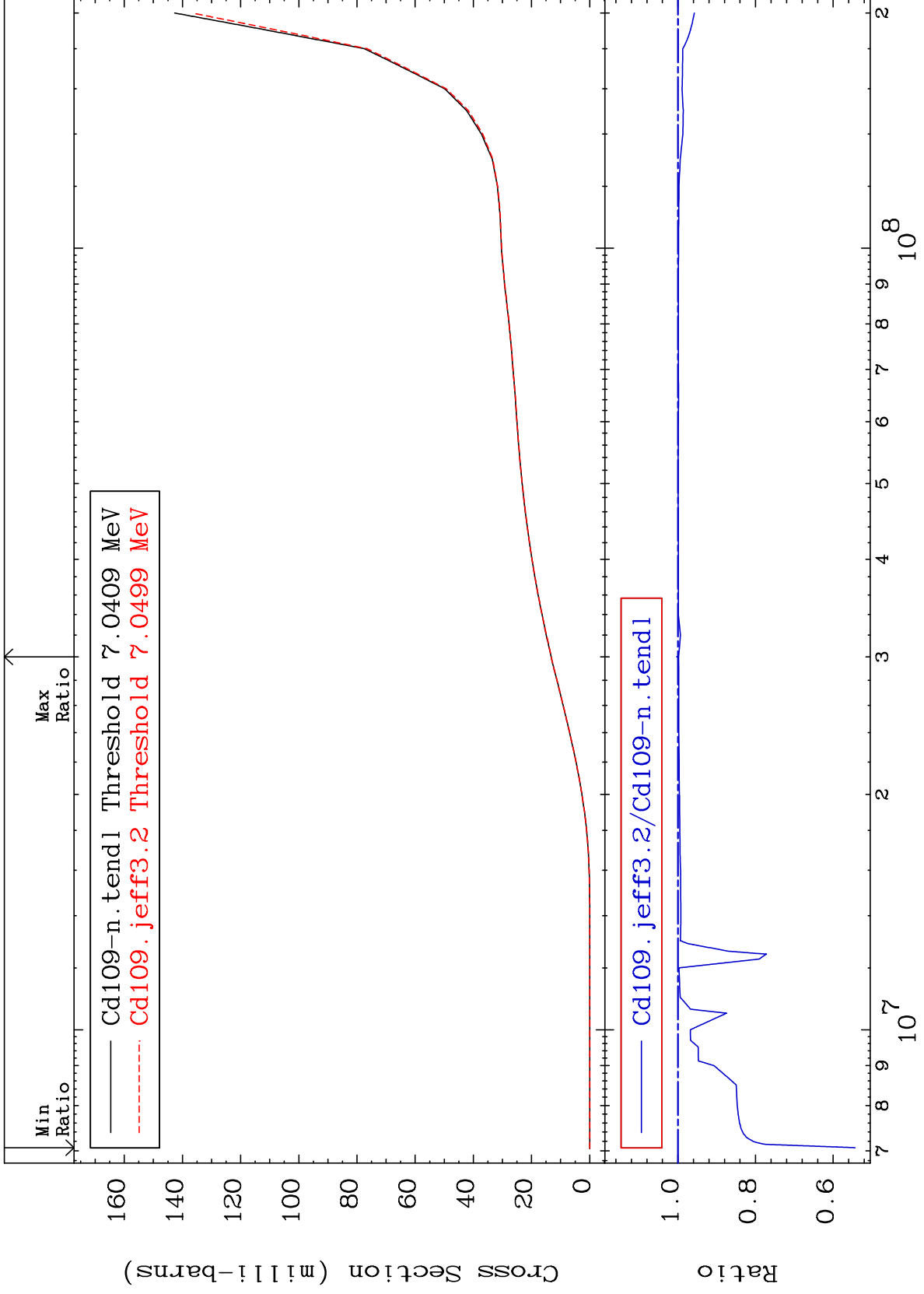
Incident Energy (eV)

48-Cd-109

MAT 4834

Tritium Production
Cross Section

48-Cd-109
-45.65 To 0.265 %



66

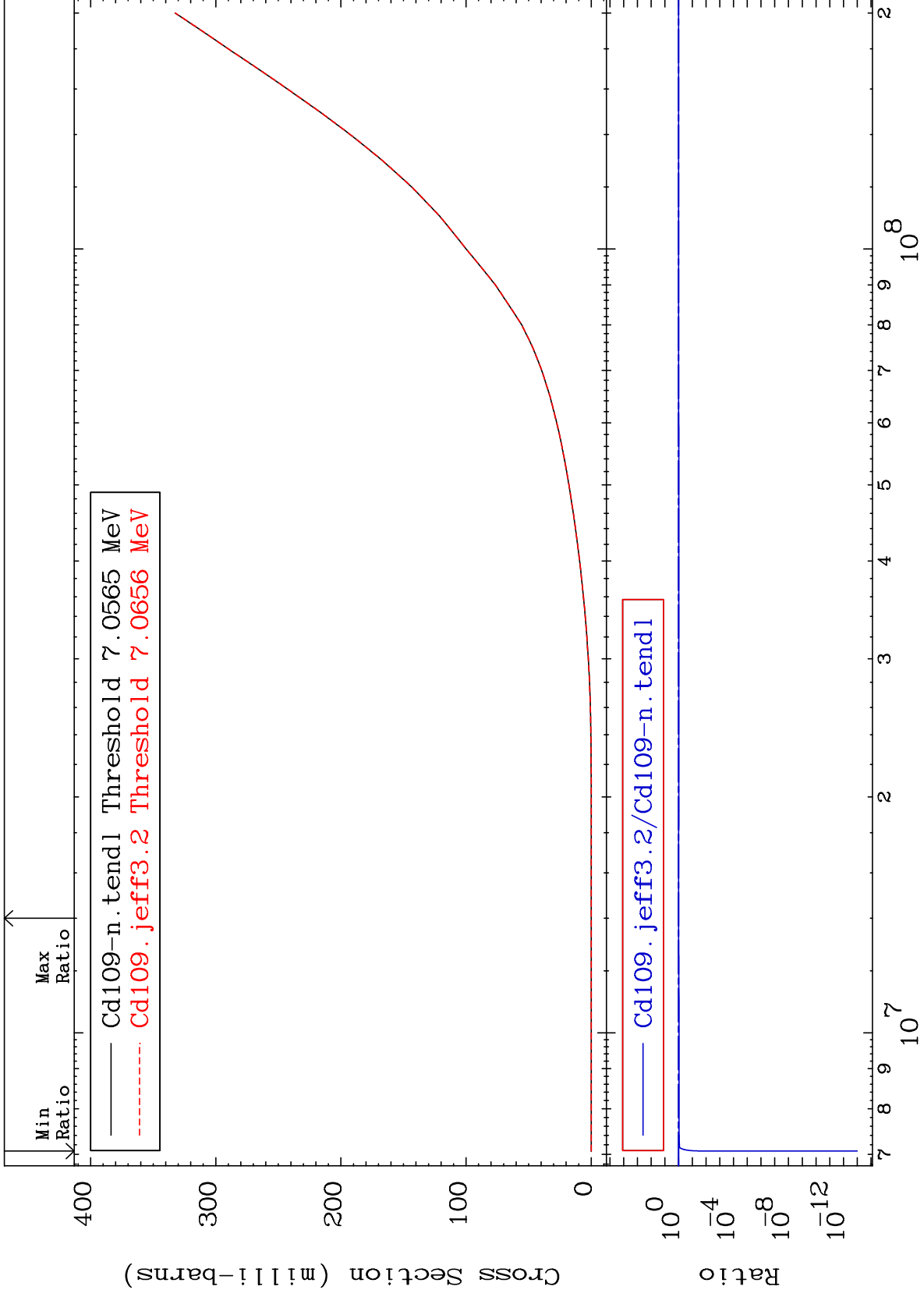
Incident Energy (eV)

48-Cd-109

MAT 4834

He-3 Production
Cross Section

48-Cd-109
-100.0 To 0.881 %



67

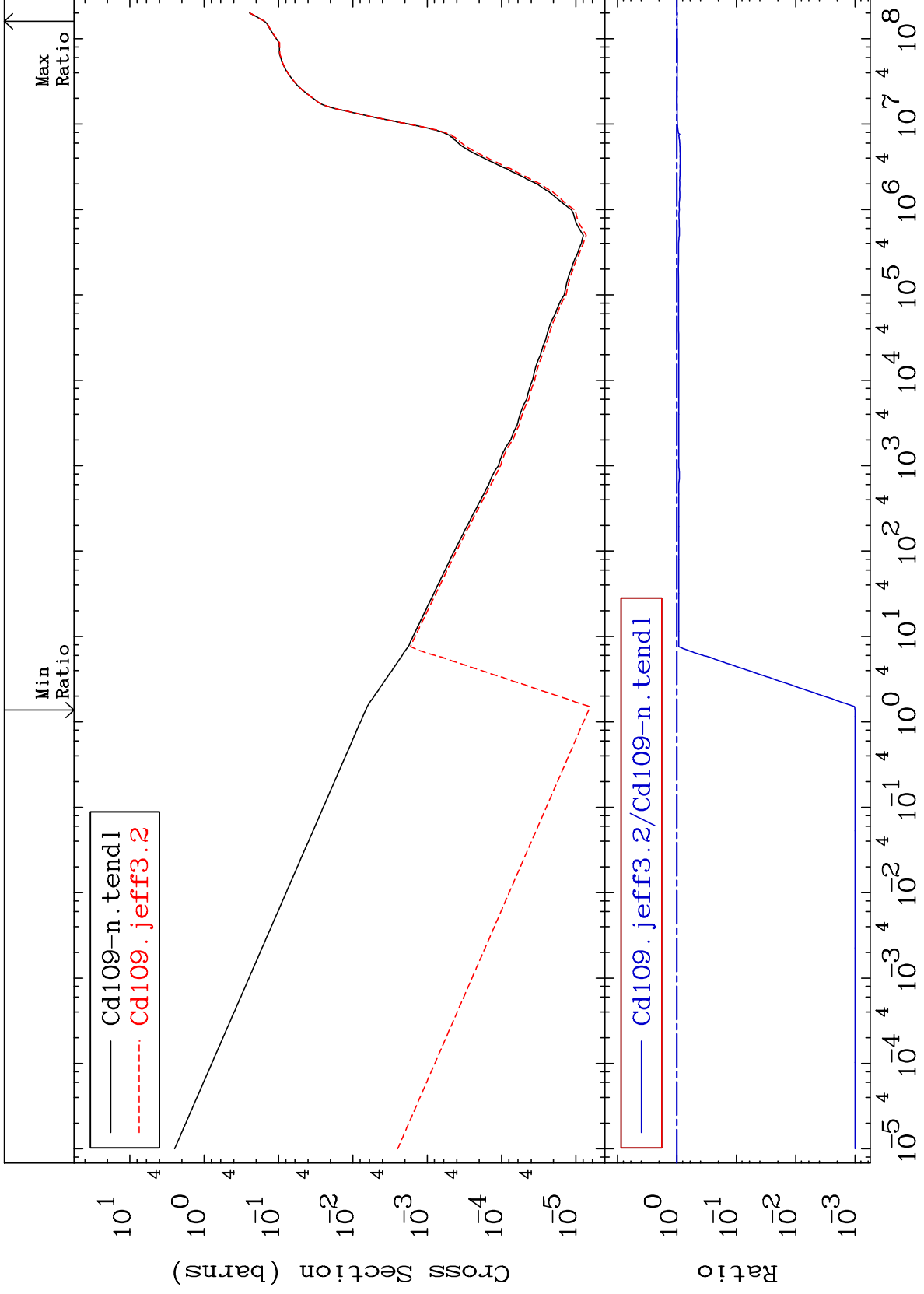
Incident Energy (eV)

48-Cd-109

MAT 4834

He-4 Production
Cross Section

48-Cd-109
-99.90 To 0.126 %



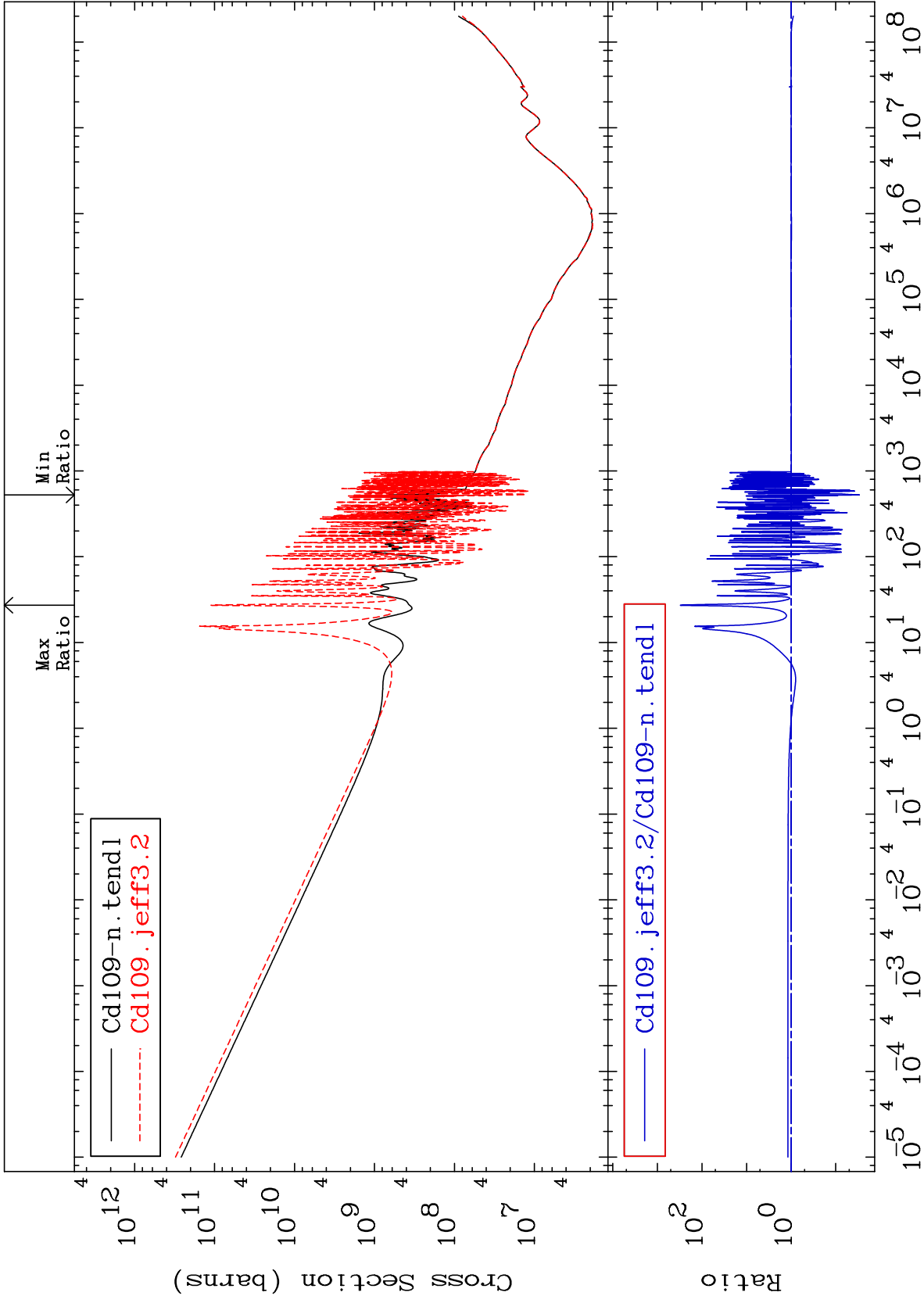
MAT 4834

Kerma total (eV-barns)

48-Cd-109

-97.06 To 9999. %

Cross Section



69

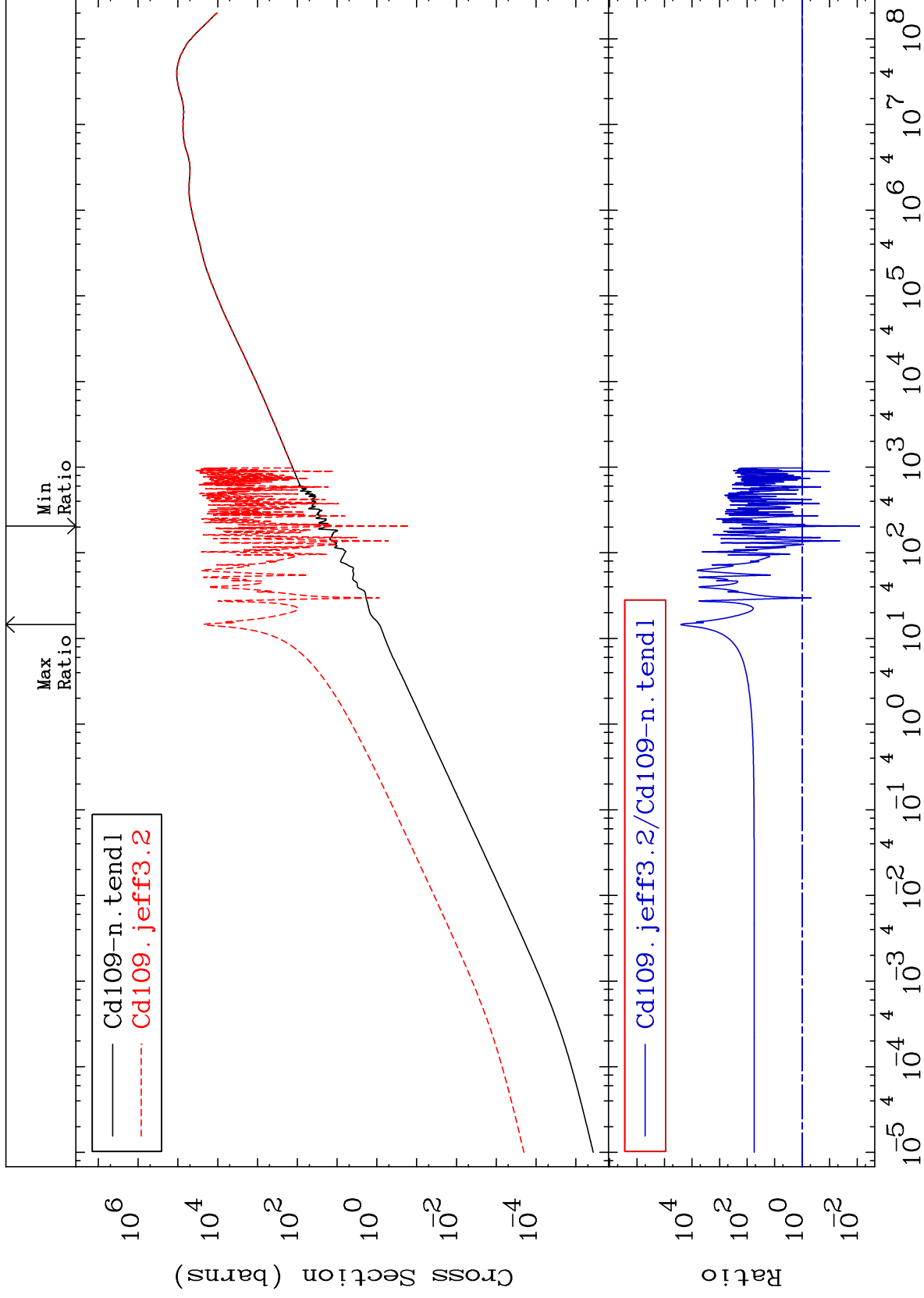
Incident Energy (eV)

48-Cd-109

MAT 4834

Kerma elastic
Cross Section

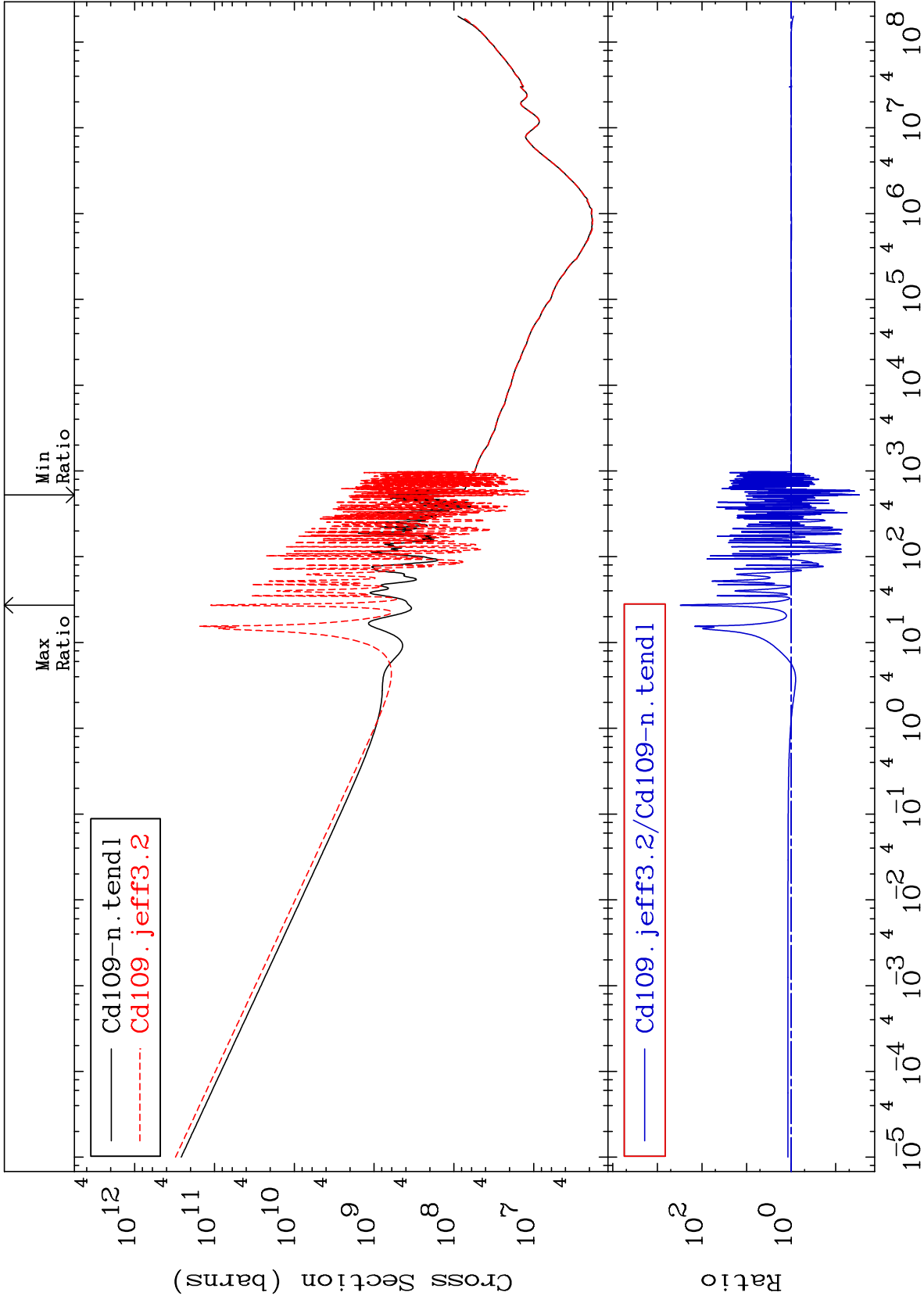
48-Cd-109
-99.18 To 9999. %



70

Incident Energy (eV)

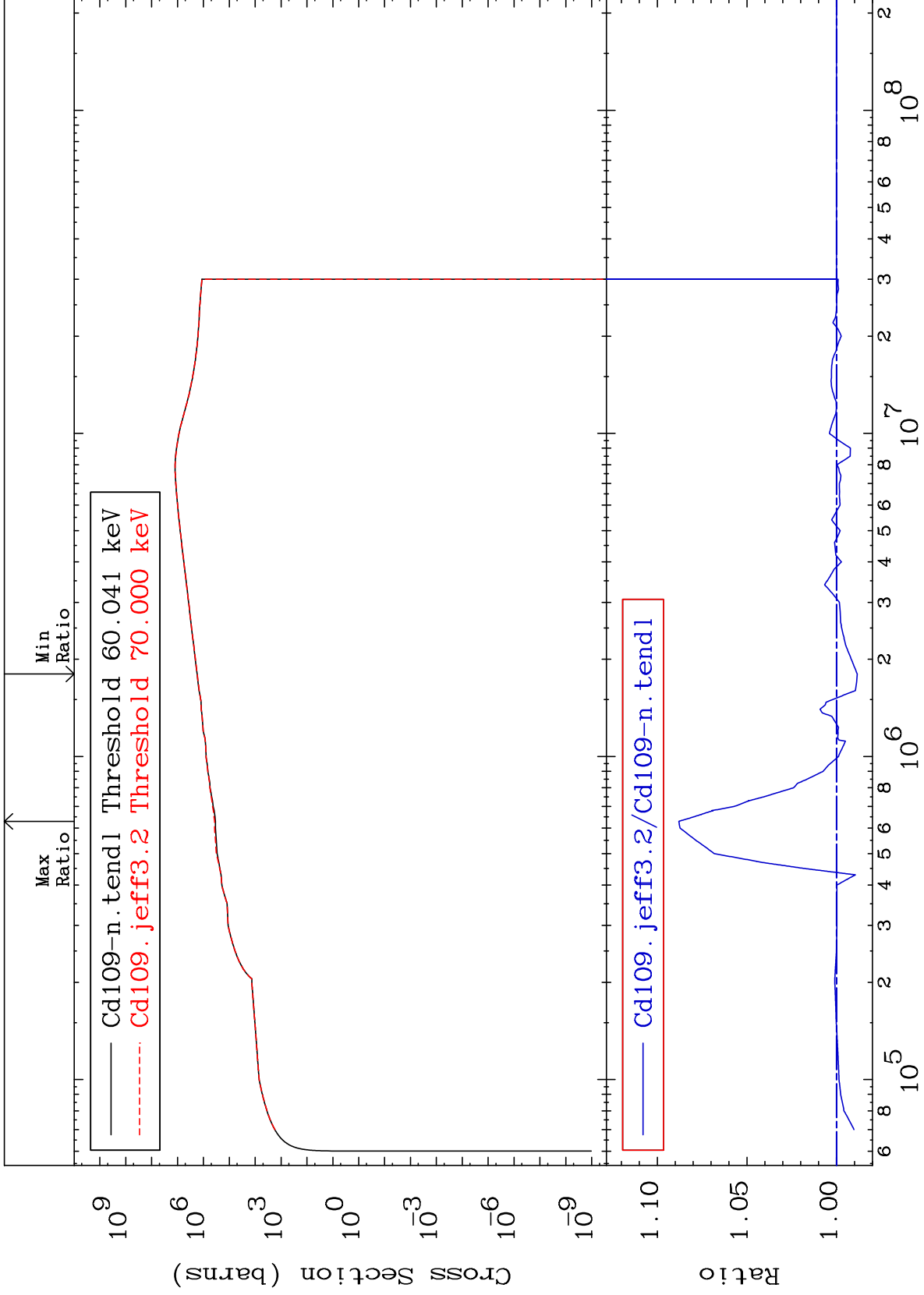
48-Cd-109



MAT 4834

Kerma inelastic (mt51-91)
Cross Section

48-Cd-109
-1.155 To 8.810 %



72

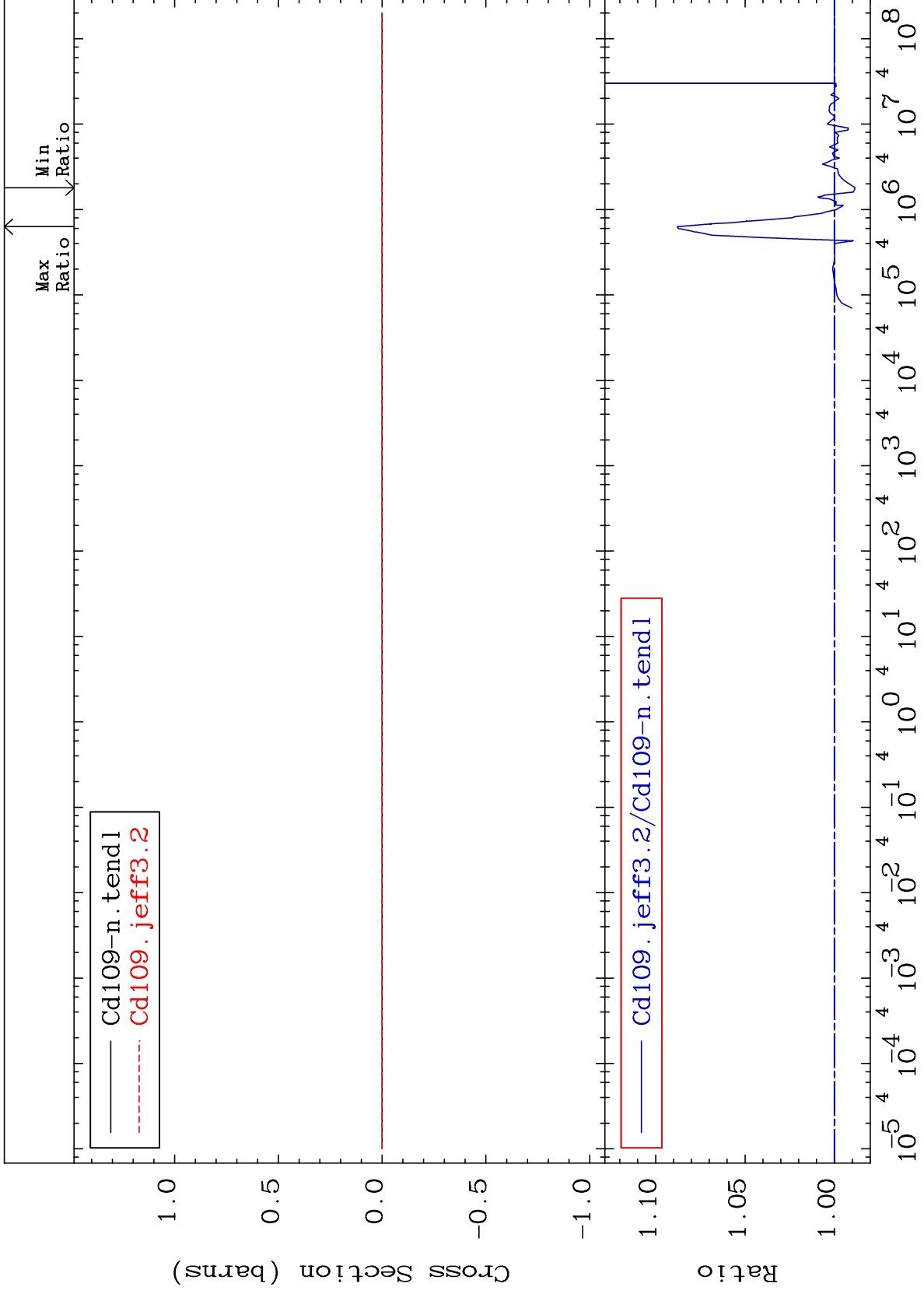
Incident Energy (eV)

48-Cd-109

MAT 4834

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

48-Cd-109
-1.155 To 8.810 %



73

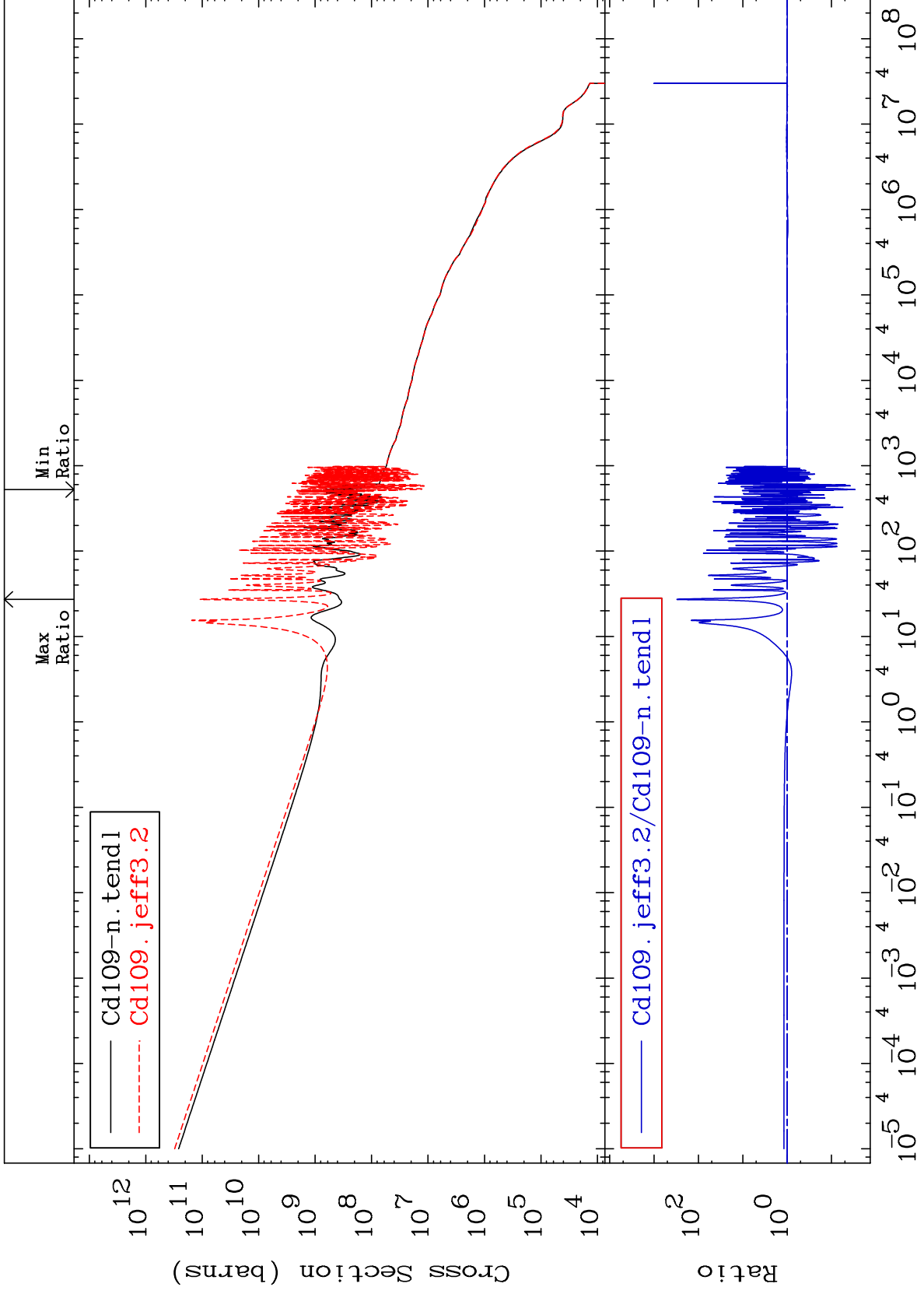
Incident Energy (eV)

48-Cd-109

MAT 4834

Kerma capture (mt102)
Cross Section

48-Cd-109
-97.06 To 9999. %



74

Incident Energy (eV)

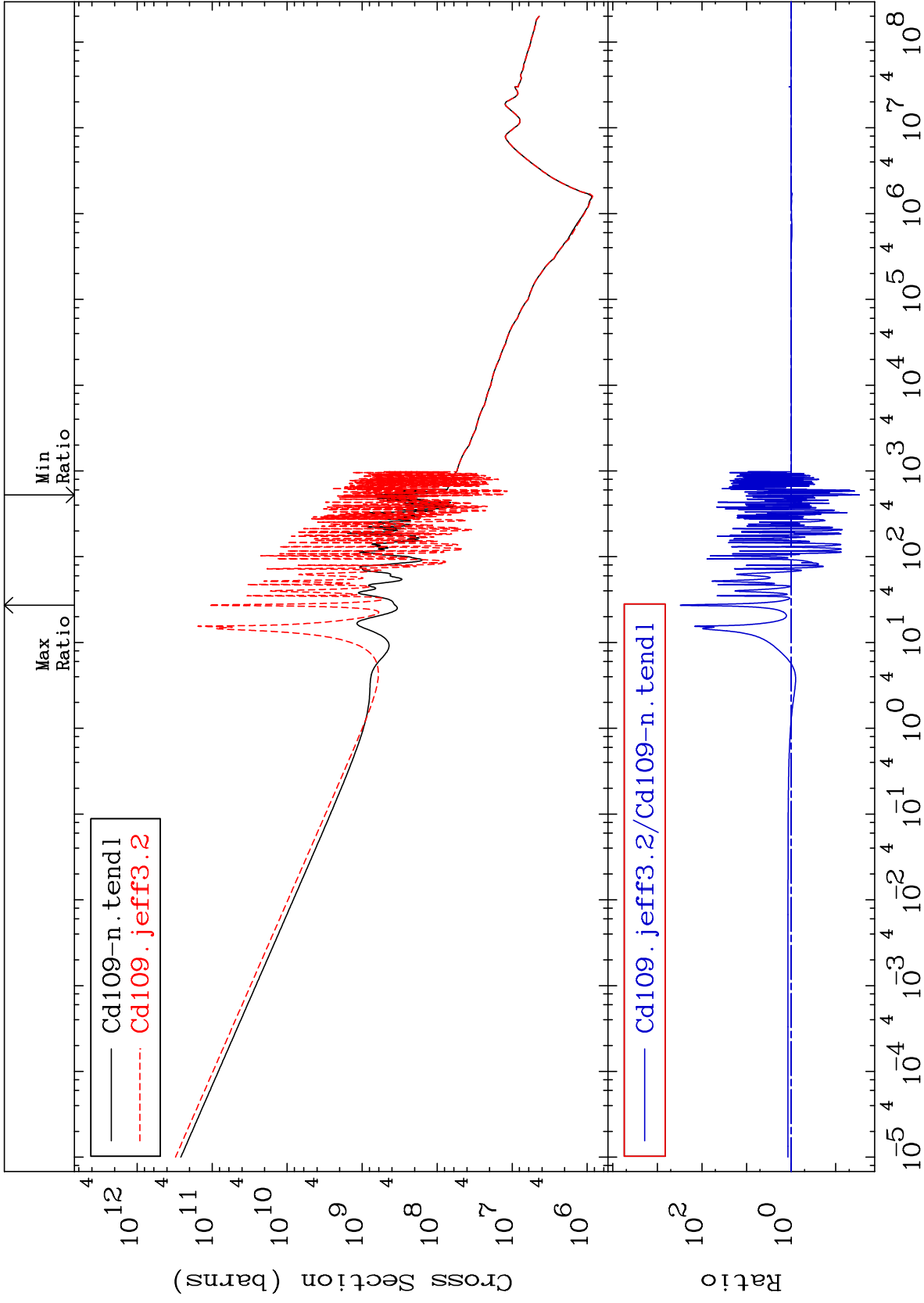
48-Cd-109

MAT 4834

Total photon (eV-barns)

48-Cd-109

-97.06 To 9999. %



75

Incident Energy (eV)

48-Cd-109

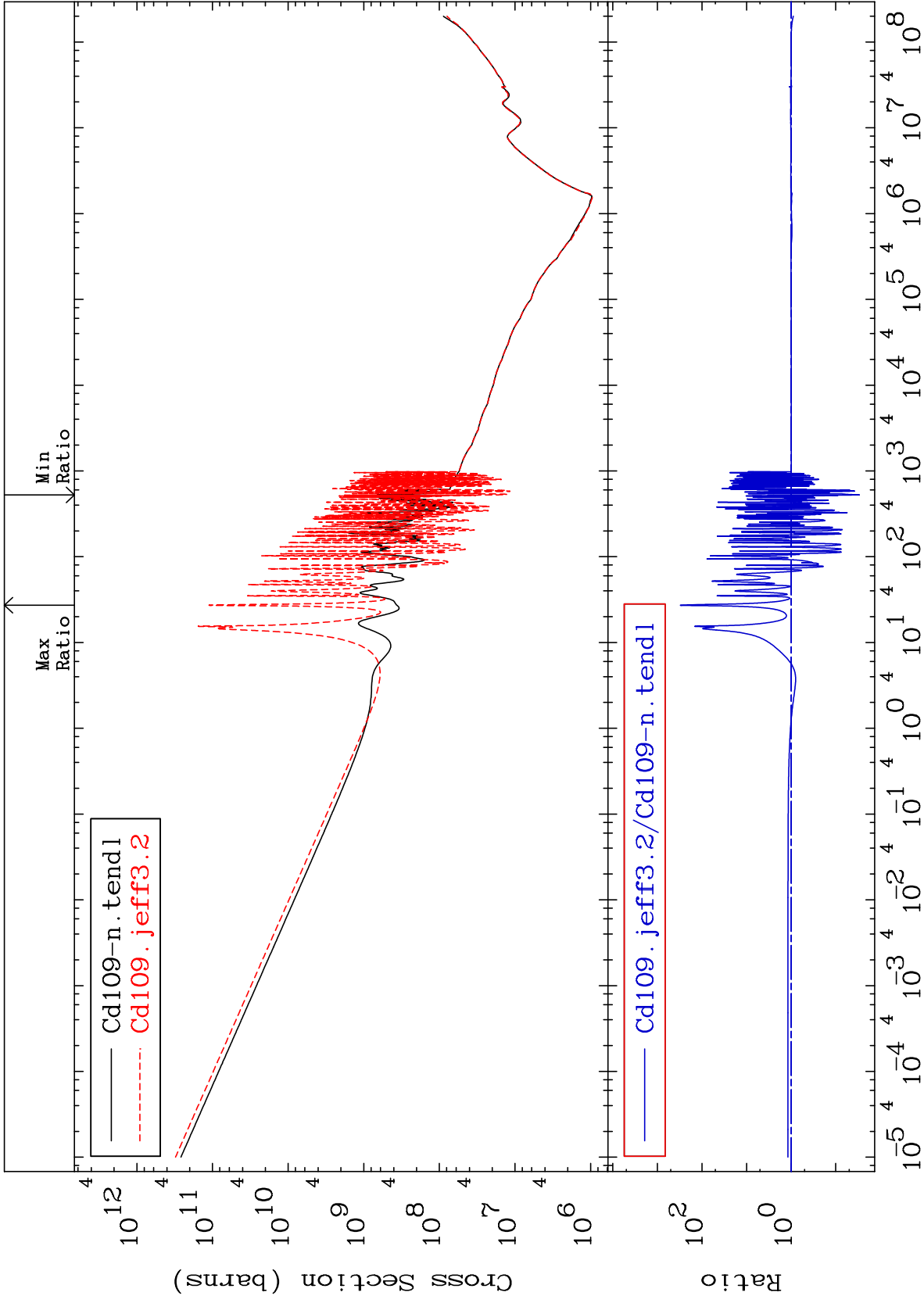
MAT 4834

Total kinematic kerma (high limit)

48-Cd-109

-97.06 To 9999. %

Cross Section



76

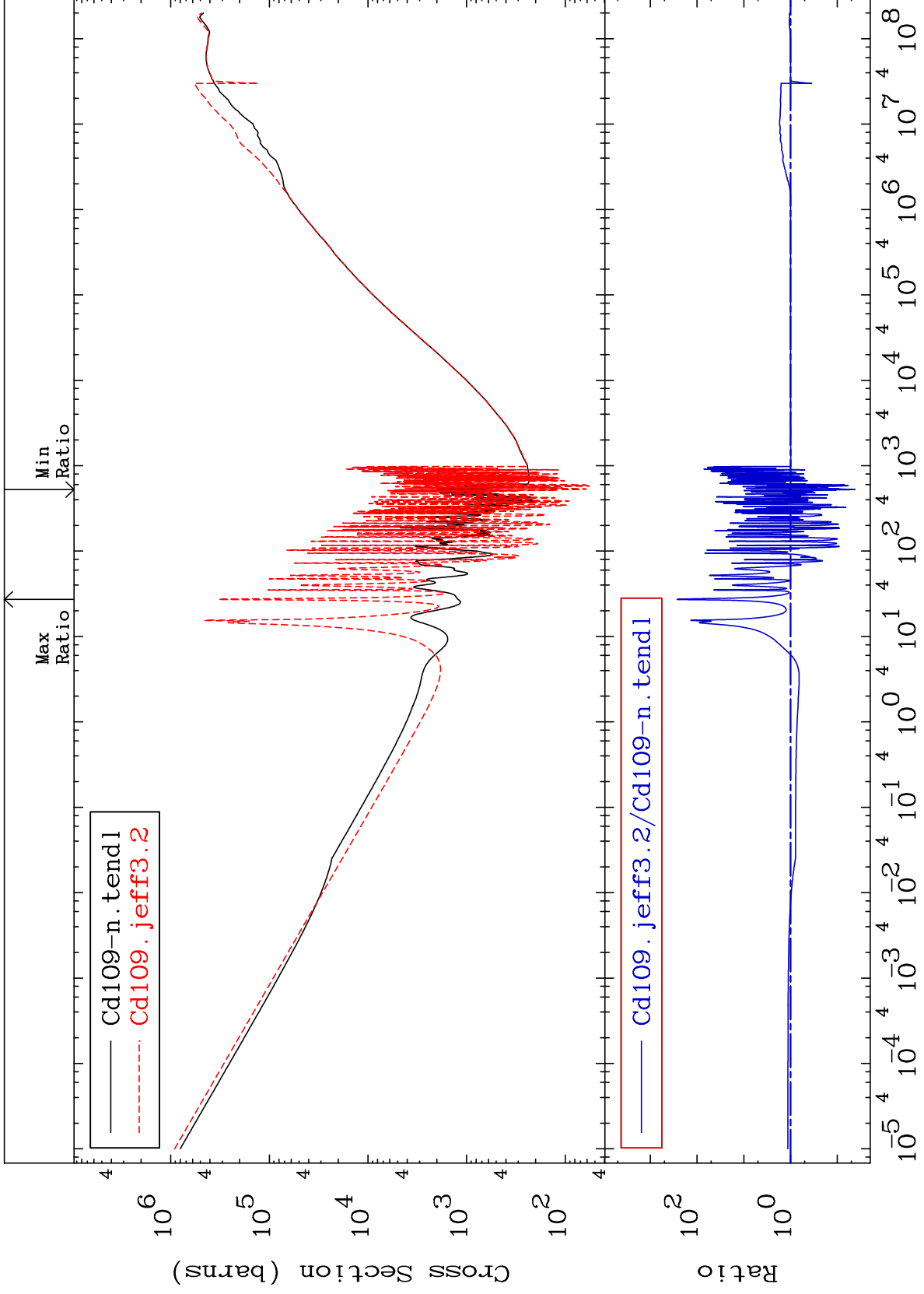
Incident Energy (eV)

48-Cd-109

MAT 4834

Dpa total (eV-barns)
Cross Section

48-Cd-109
-95.83 To 9999. %



77

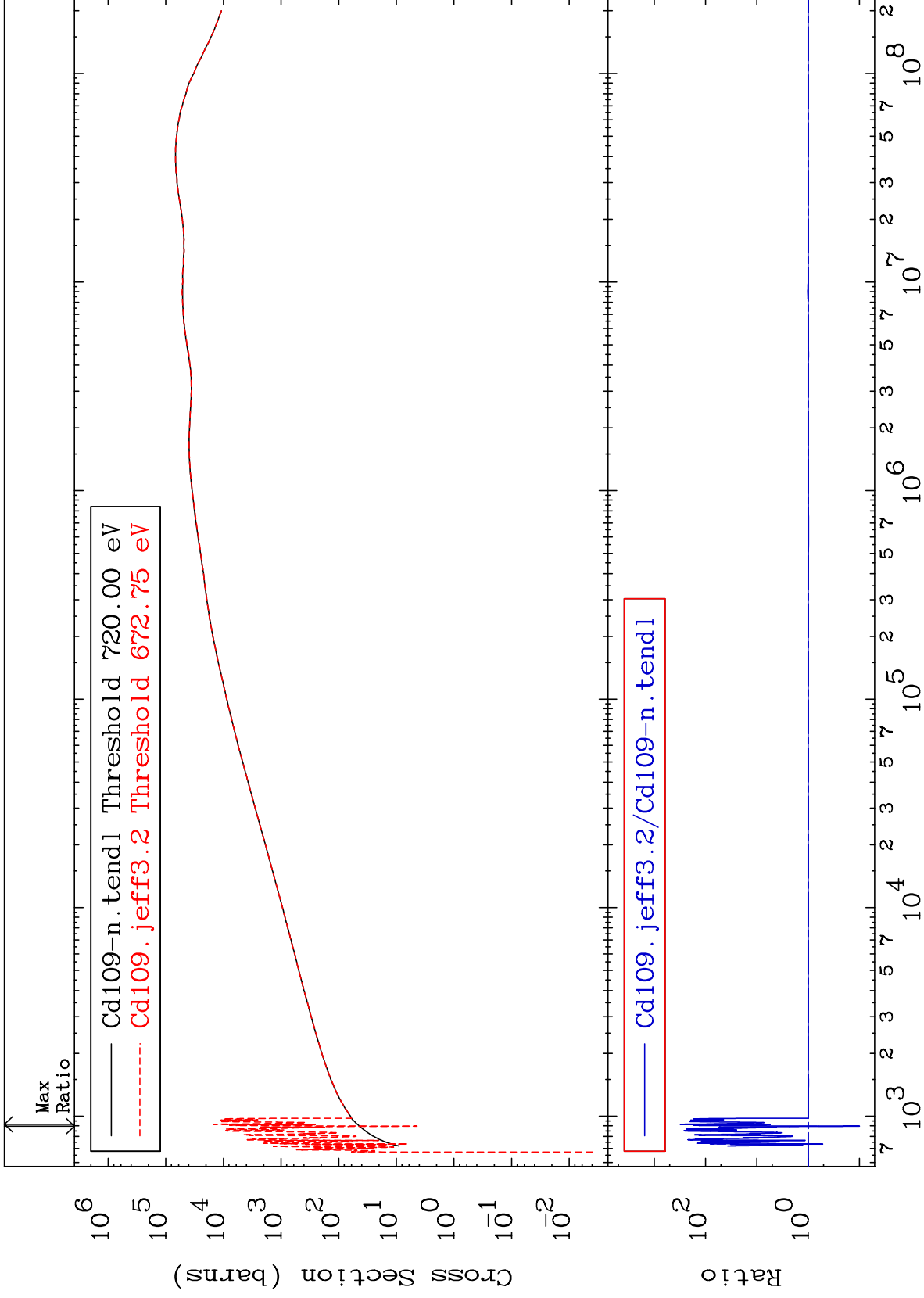
Incident Energy (eV)

48-Cd-109

MAT 4834

Dpa elastic (mt2)
Cross Section

48-Cd-109
-89.97 To 9999. %



78

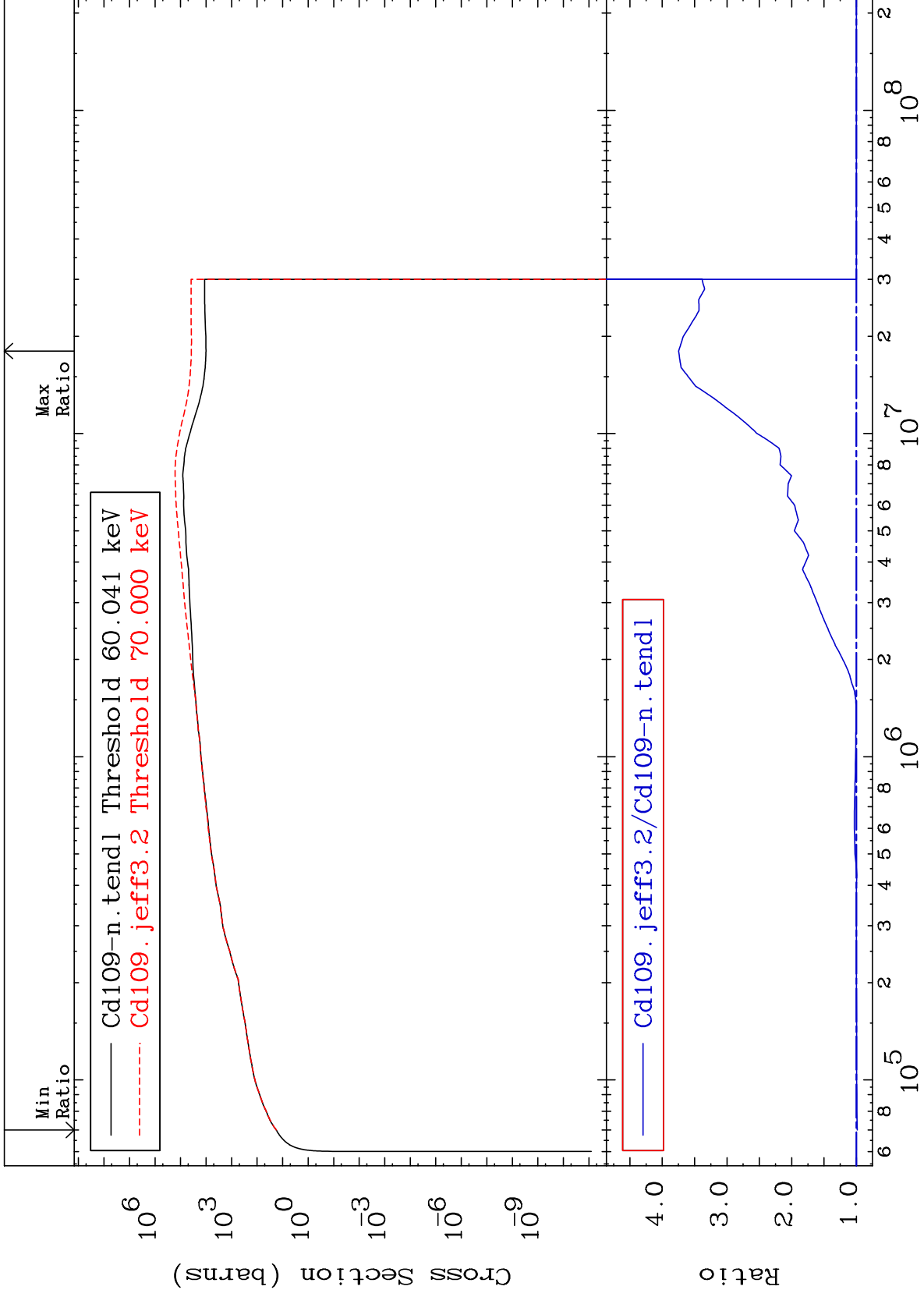
Incident Energy (eV)

48-Cd-109

MAT 4834

Dpa inelastic (mt51-91)
Cross Section

48-Cd-109
-1.286 To 274.6 %



79

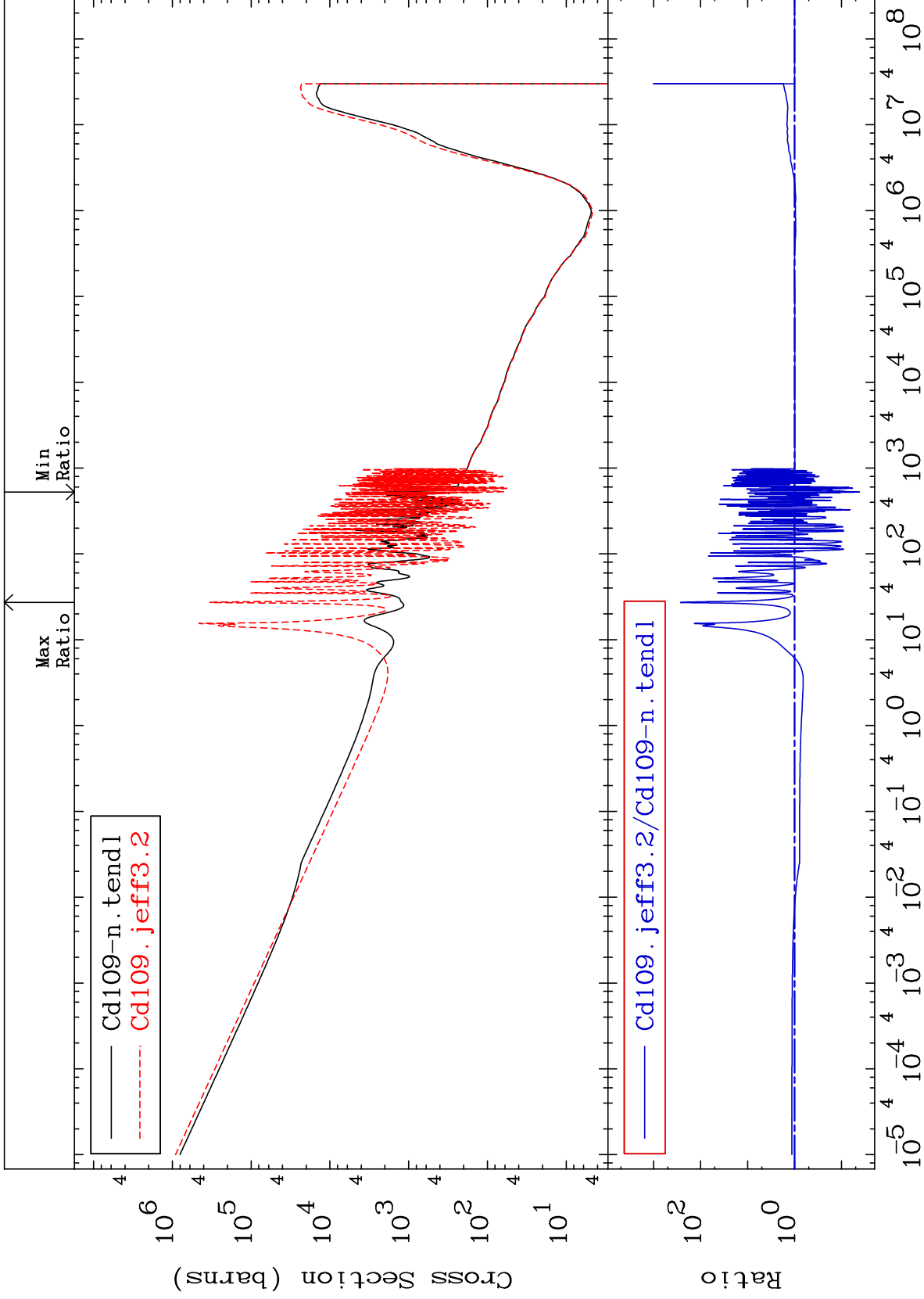
Incident Energy (eV)

48-Cd-109

MAT 4834

Dpa disappearance (mt102 -120)
Cross Section

48-Cd-109
-95.83 To 9999. %



80

Incident Energy (eV)

48-Cd-109

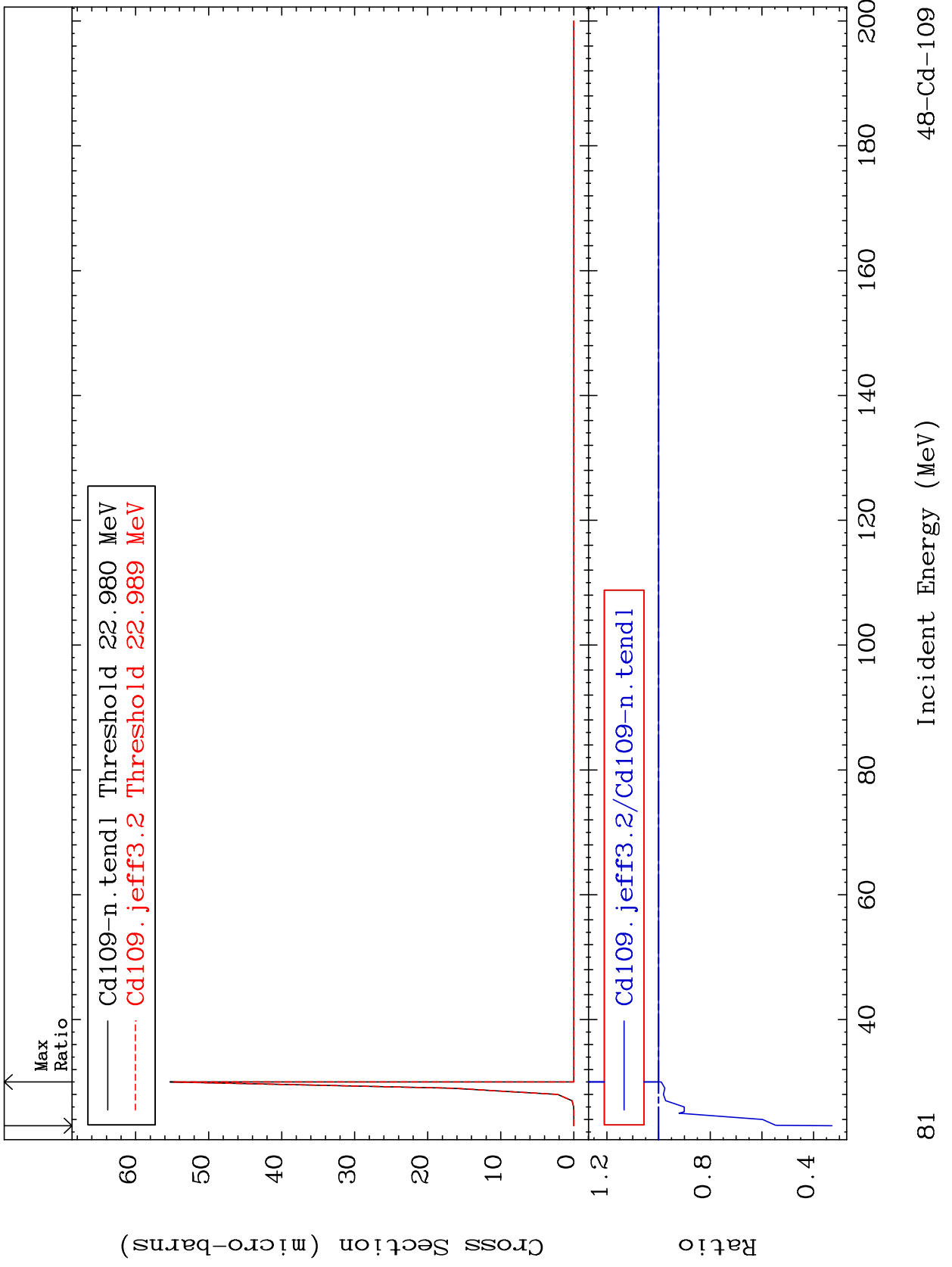
MAT 4834

(n,2n) d:47-Ag-106g

48-Cd-109

Radionuclide Production Cross Section

-67.13 To 0.000 %



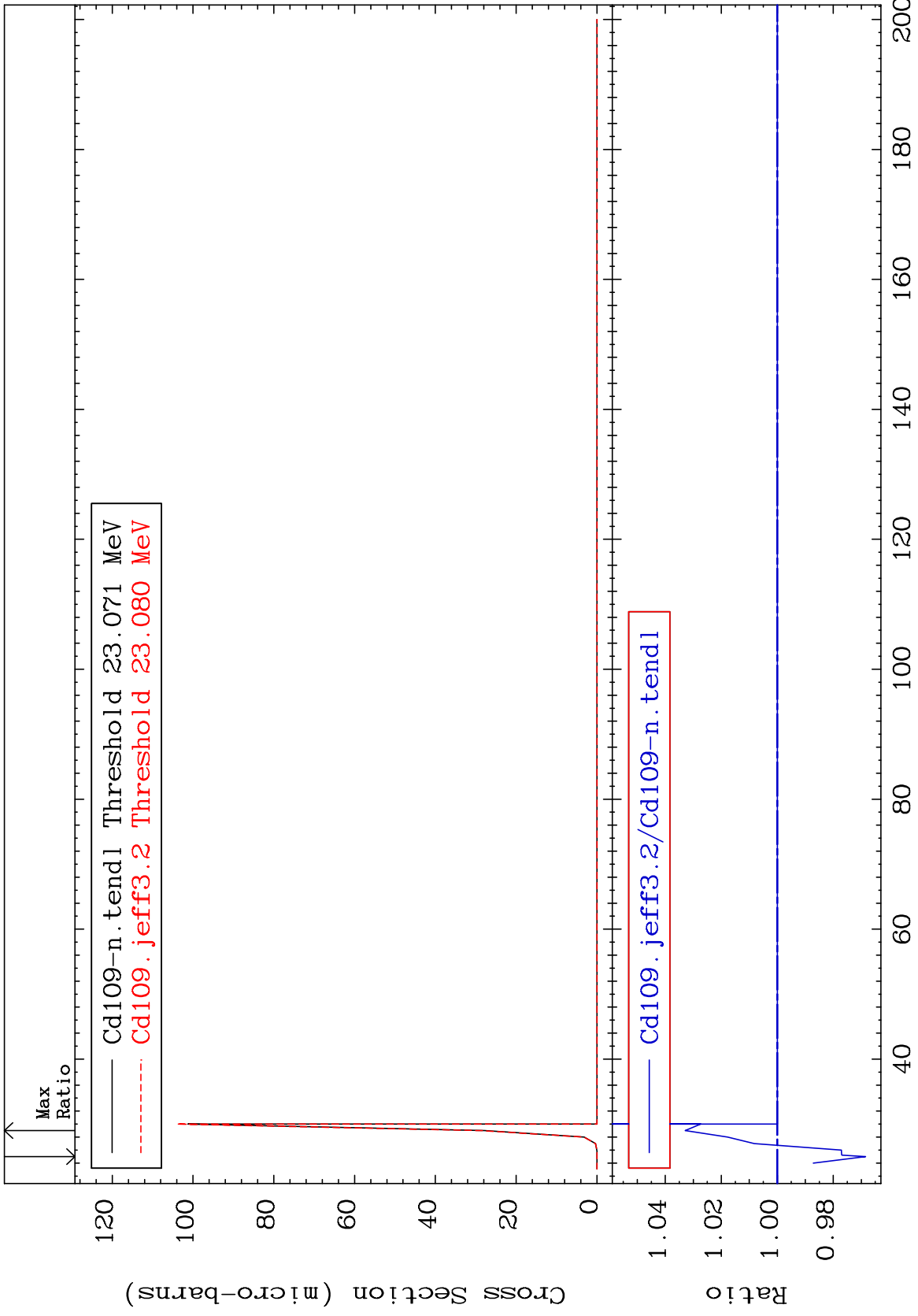
MAT 4834

(n,2n) d:47-Ag-106m1

48-Cd-109

Radionuclide Production Cross Section

-3.153 To 3.288 %

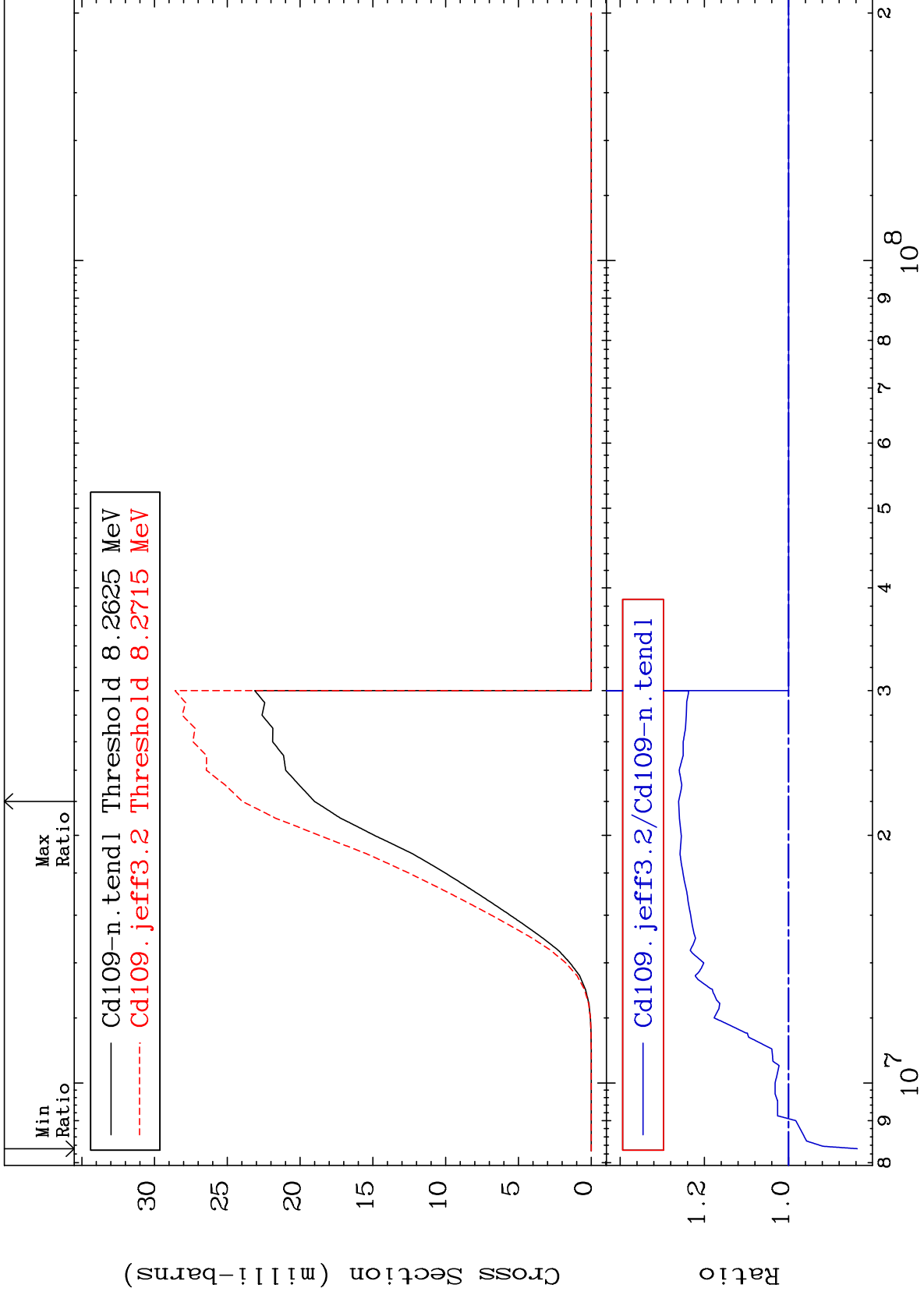


MAT 4834

(n, n') p: 47-Ag-108g

48-Cd-109

Radionuclide Production Cross Section -16.32 To 26.09 %



83

Incident Energy (eV)

48-Cd-109

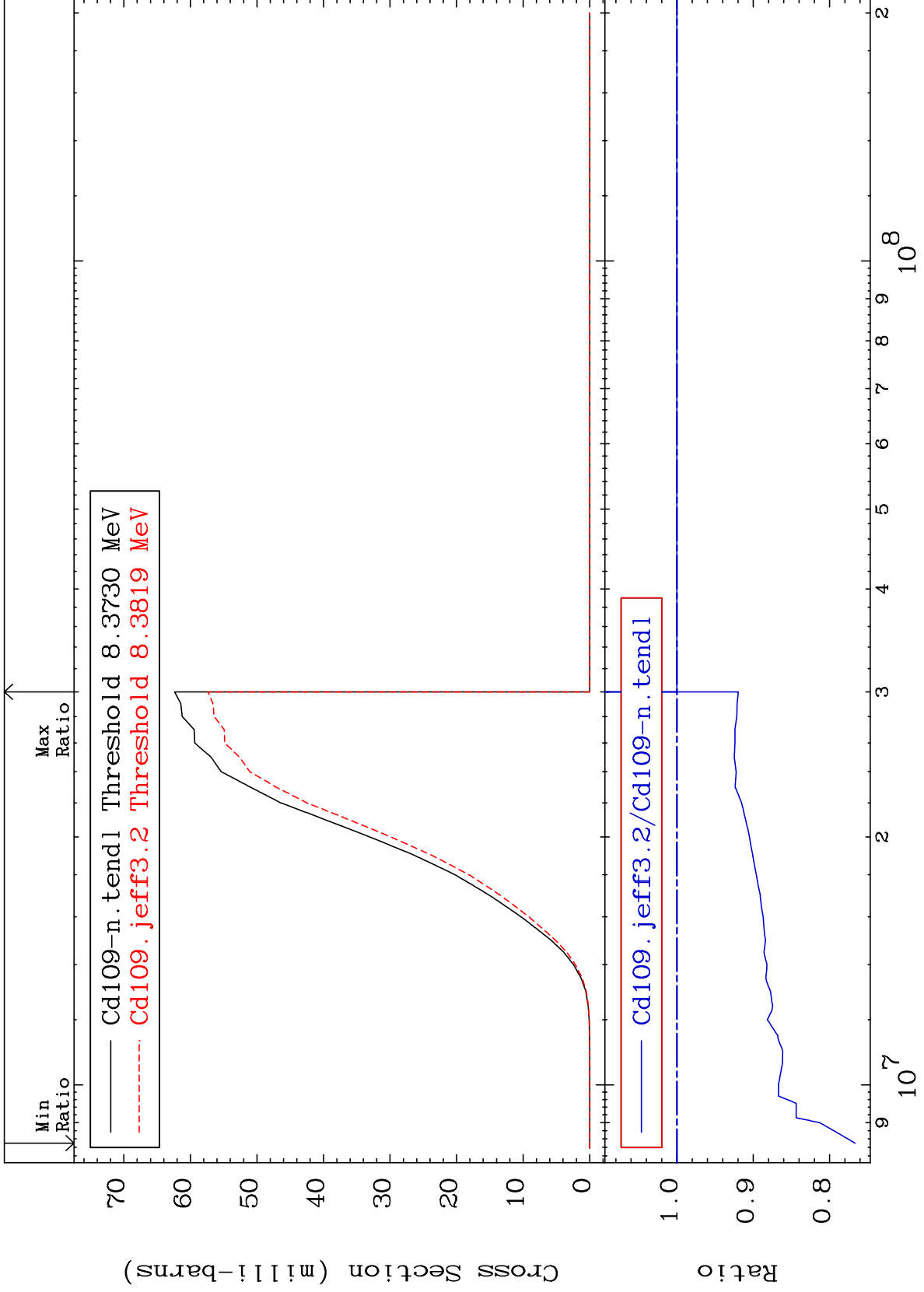
MAT 4834

(n,n') p:47-Ag-108m2

48-Cd-109

Radionuclide Production Cross Section

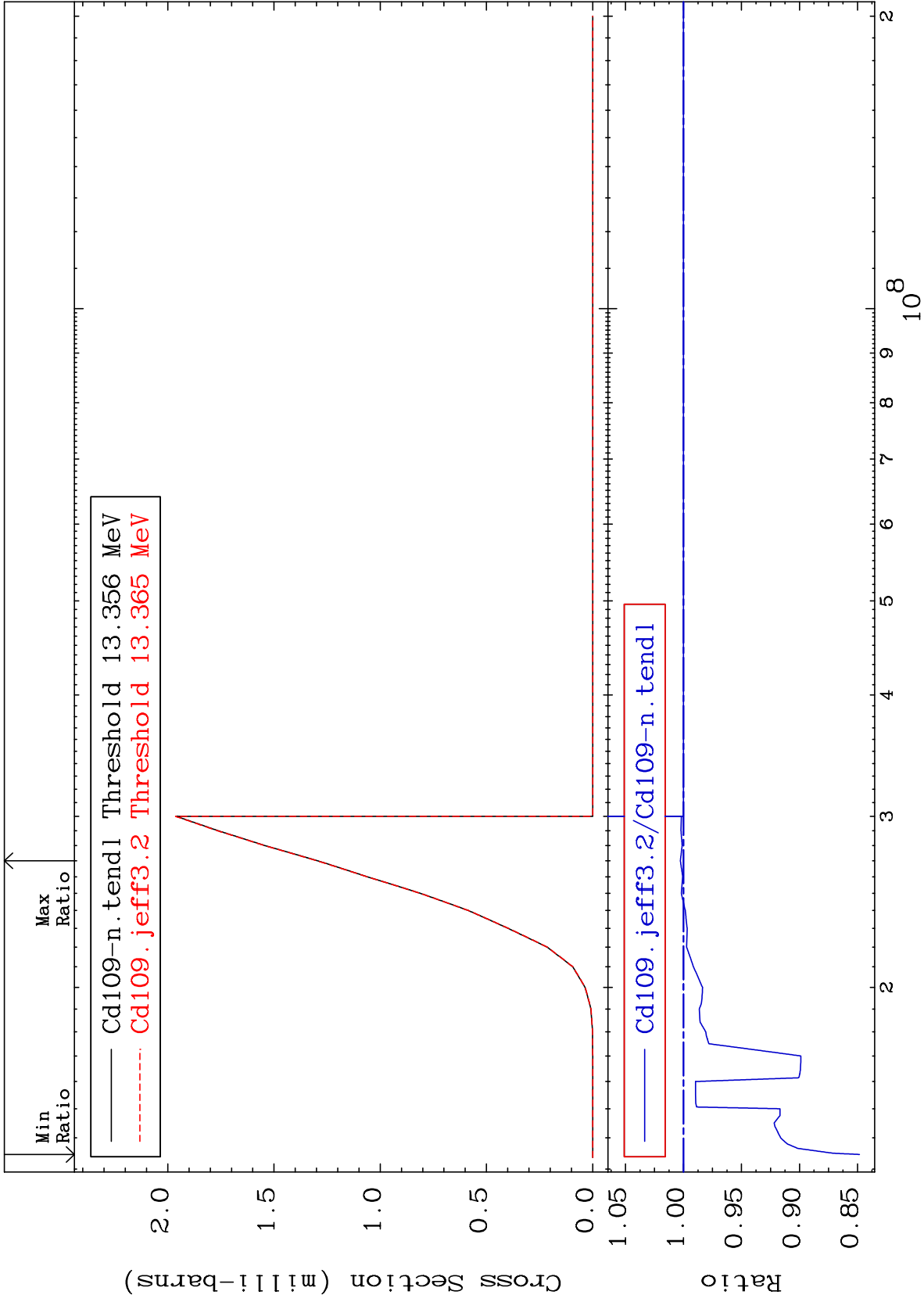
-23.34 To 0.000 %



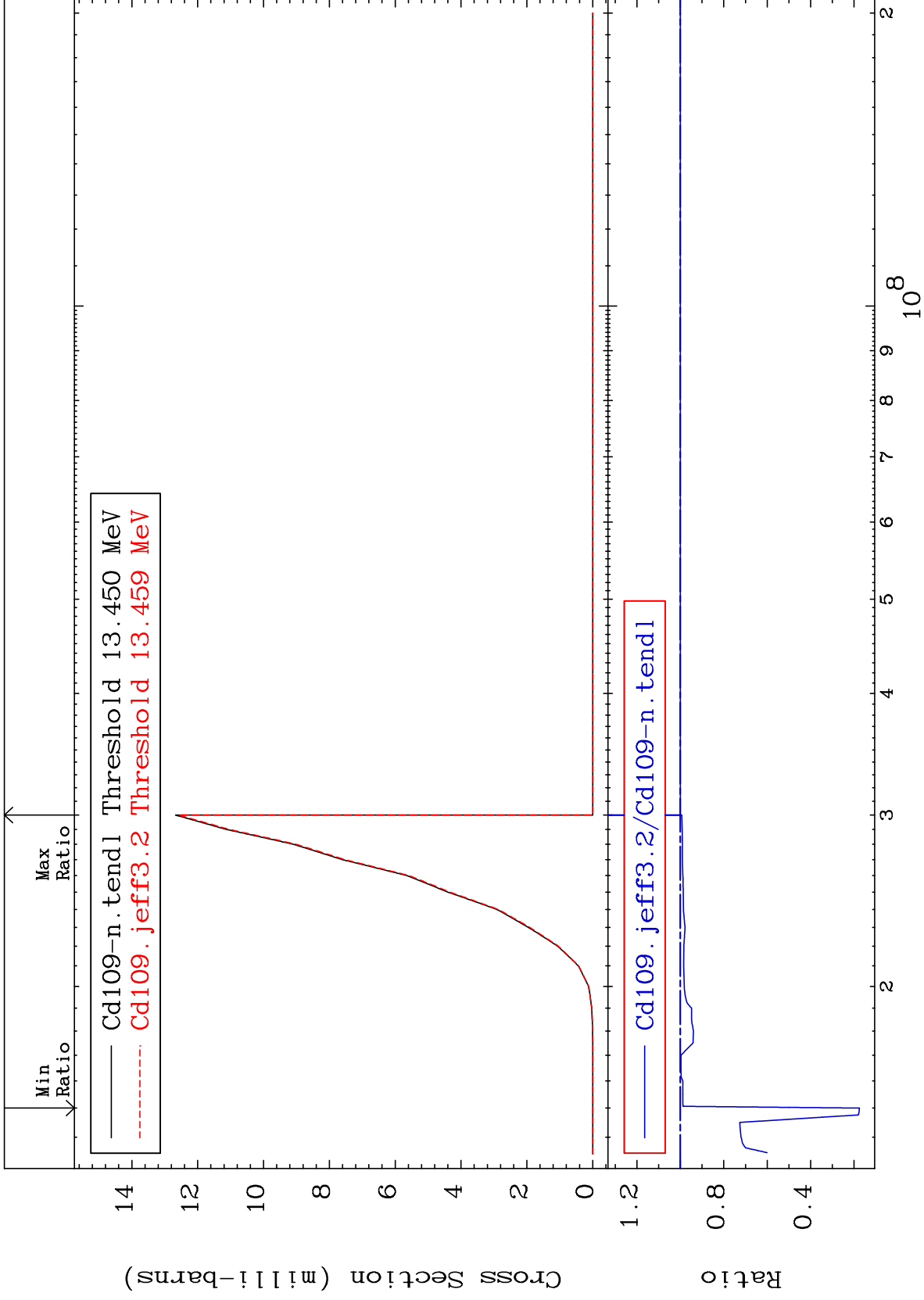
84

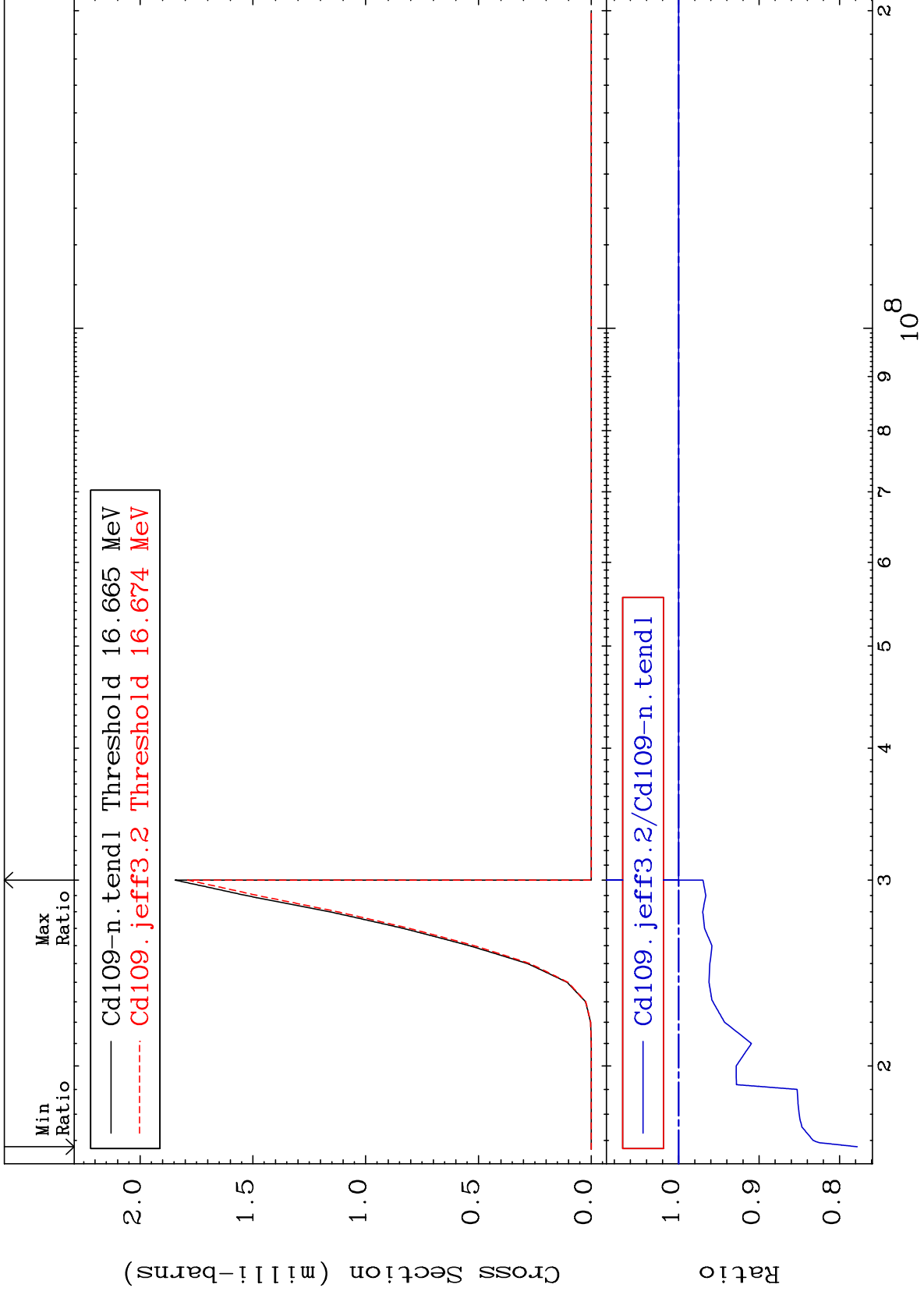
48-Cd-109

48-Cd-109



Radionuclide Production Cross Section -82.47 To 0.000 %



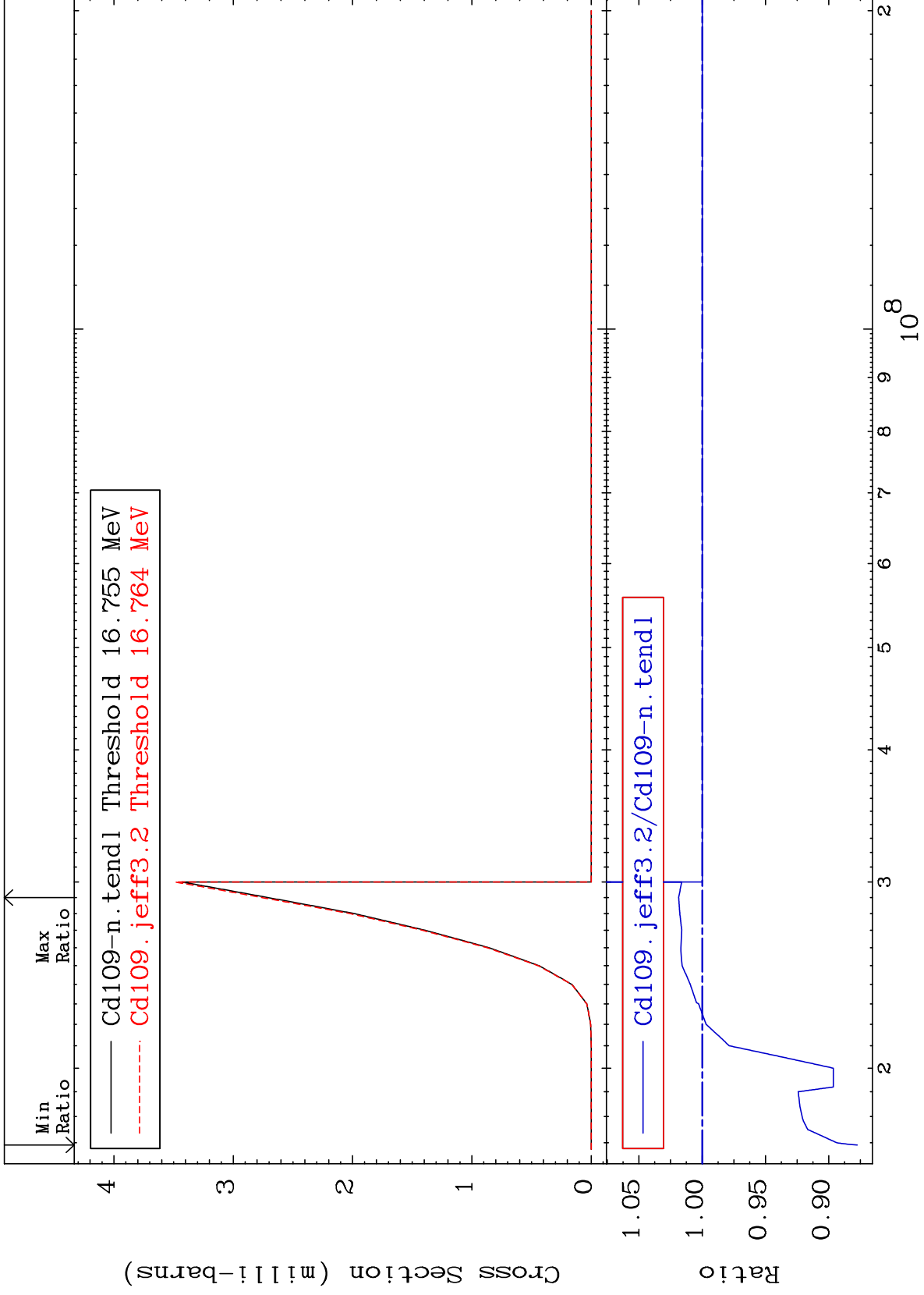


MAT 4834

(n, n') t: 47-Ag-106m1

48-Cd-109

Radionuclide Production Cross Section -12.25 To 1.861 %

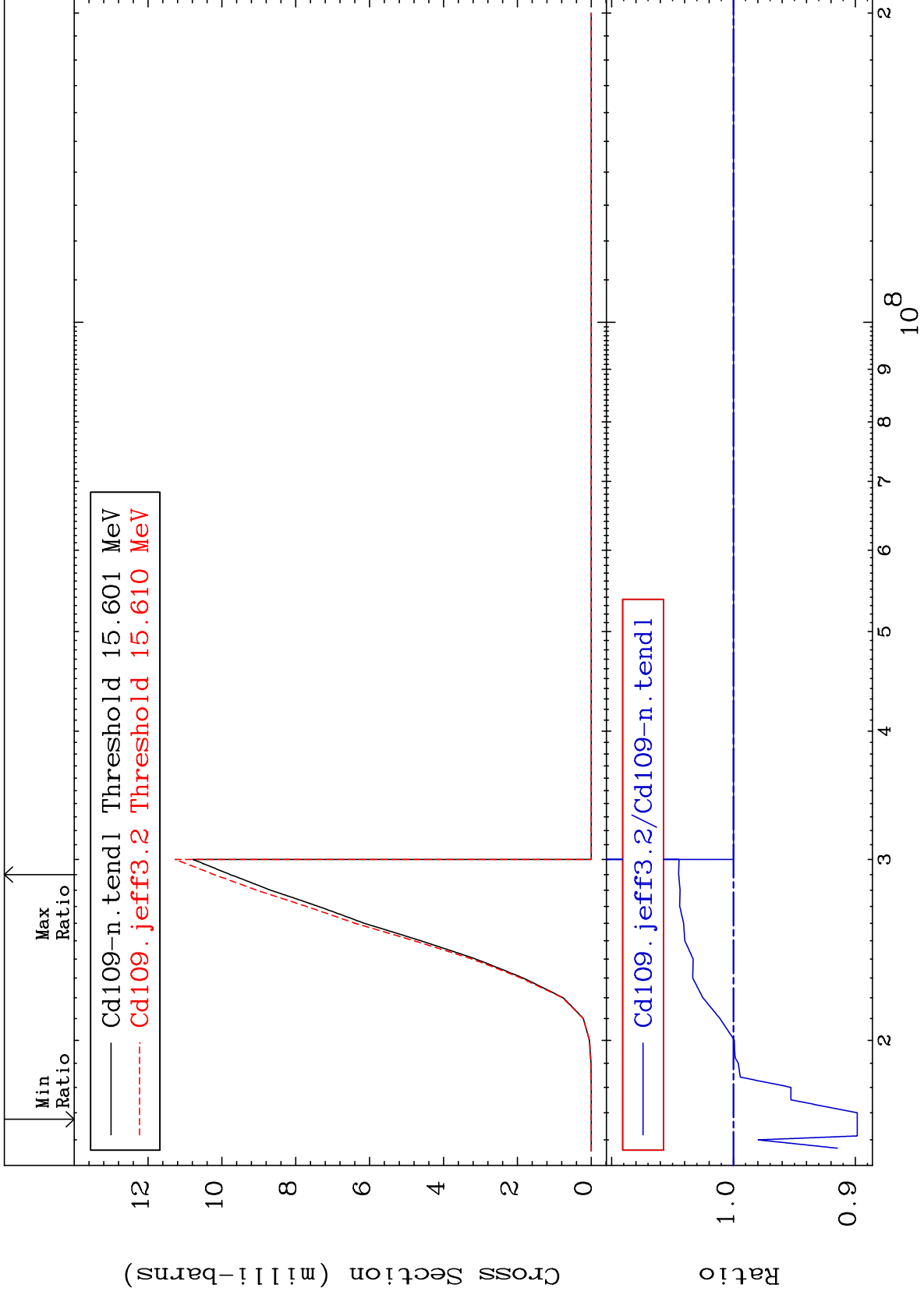


MAT 4834

(n,2n) p:47-Ag-107g

48-Cd-109

Radionuclide Production Cross Section -10.16 To 4.496 %



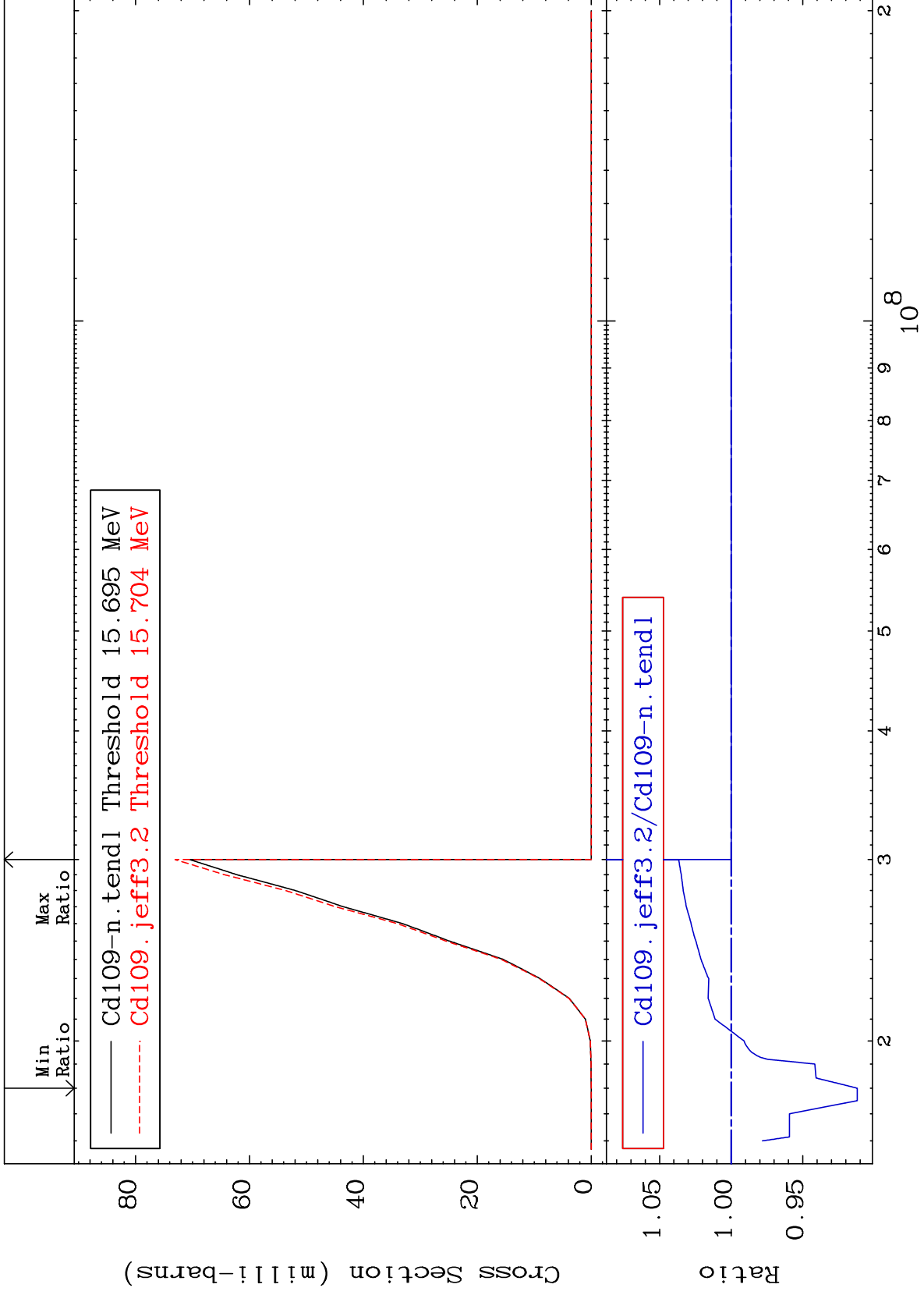
MAT 4834

(n,2n) p:47-Ag-107m1

48-Cd-109

Radionuclide Production Cross Section

-8.804 To 3.669 %



90

Incident Energy (eV)

48-Cd-109

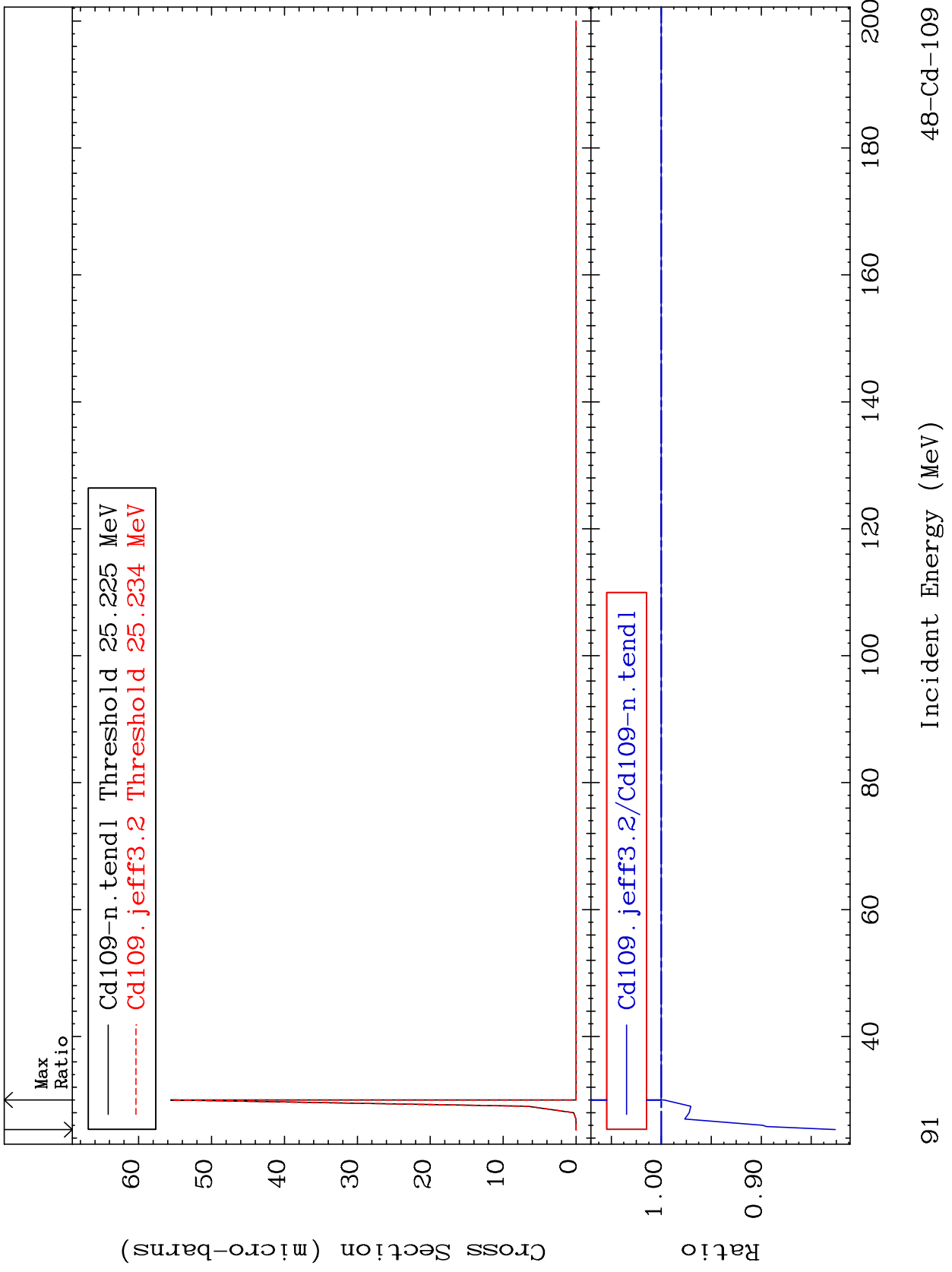
MAT 4834

(n,3n) p:47-Ag-106g

48-Cd-109

Radionuclide Production Cross Section

-17.41 To 0.000 %



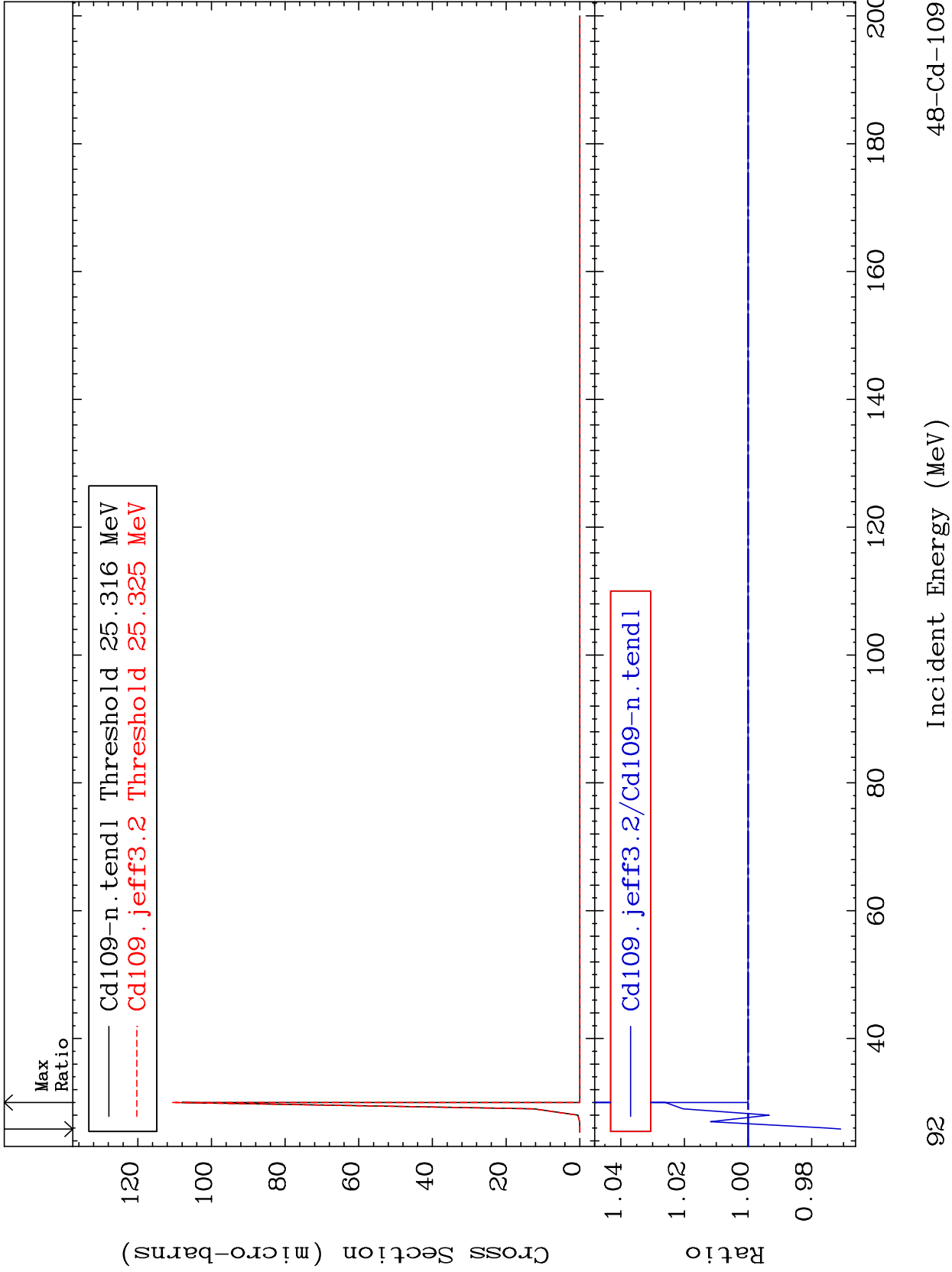
MAT 4834

(n,3n) p:47-Ag-106m1

48-Cd-109

Radionuclide Production Cross Section

-2.910 To 2.597 %

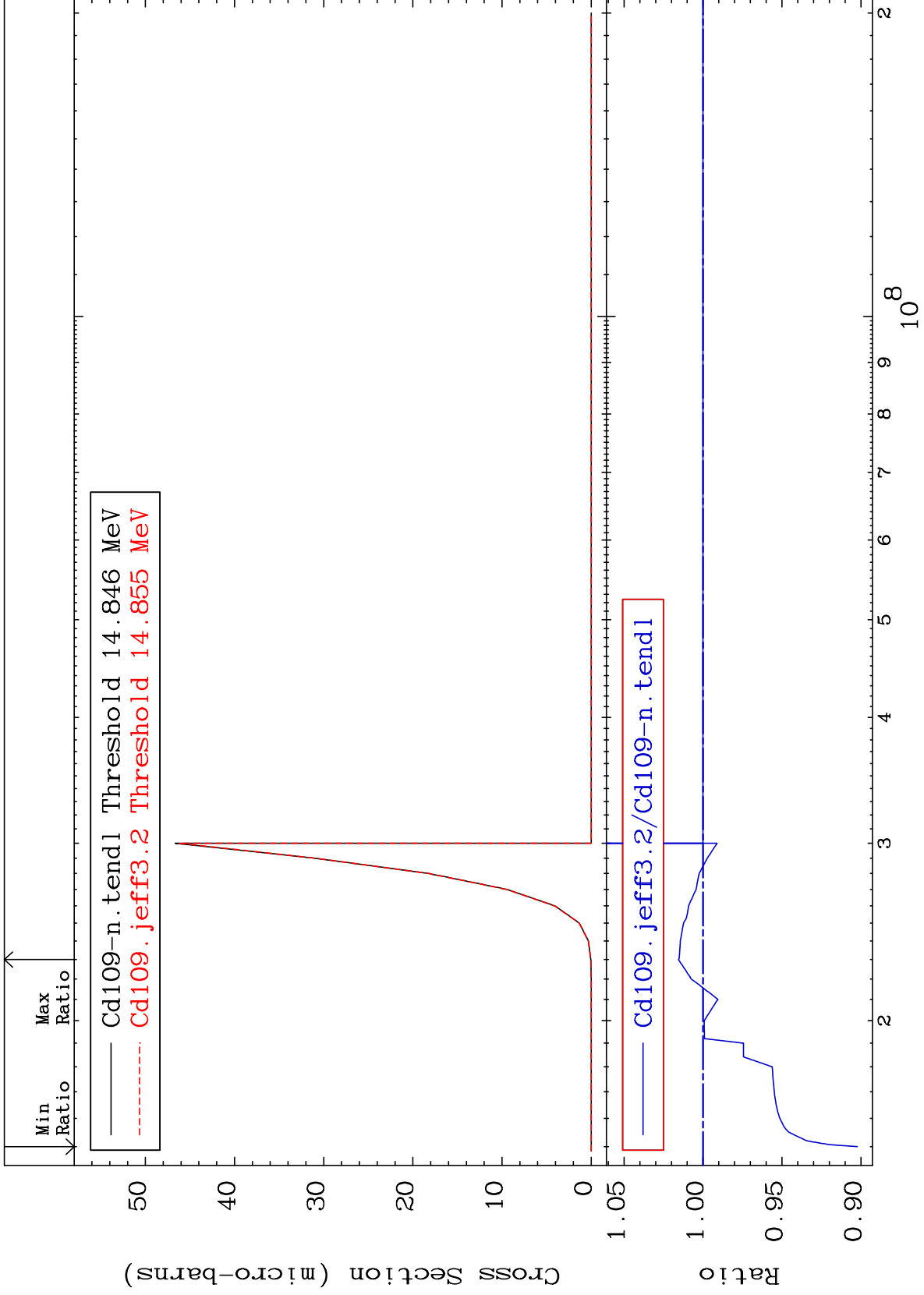


MAT 4834

(n,2n) p:46-Pd-107g

48-Cd-109

Radionuclide Production Cross Section -9.764 To 1.543 %

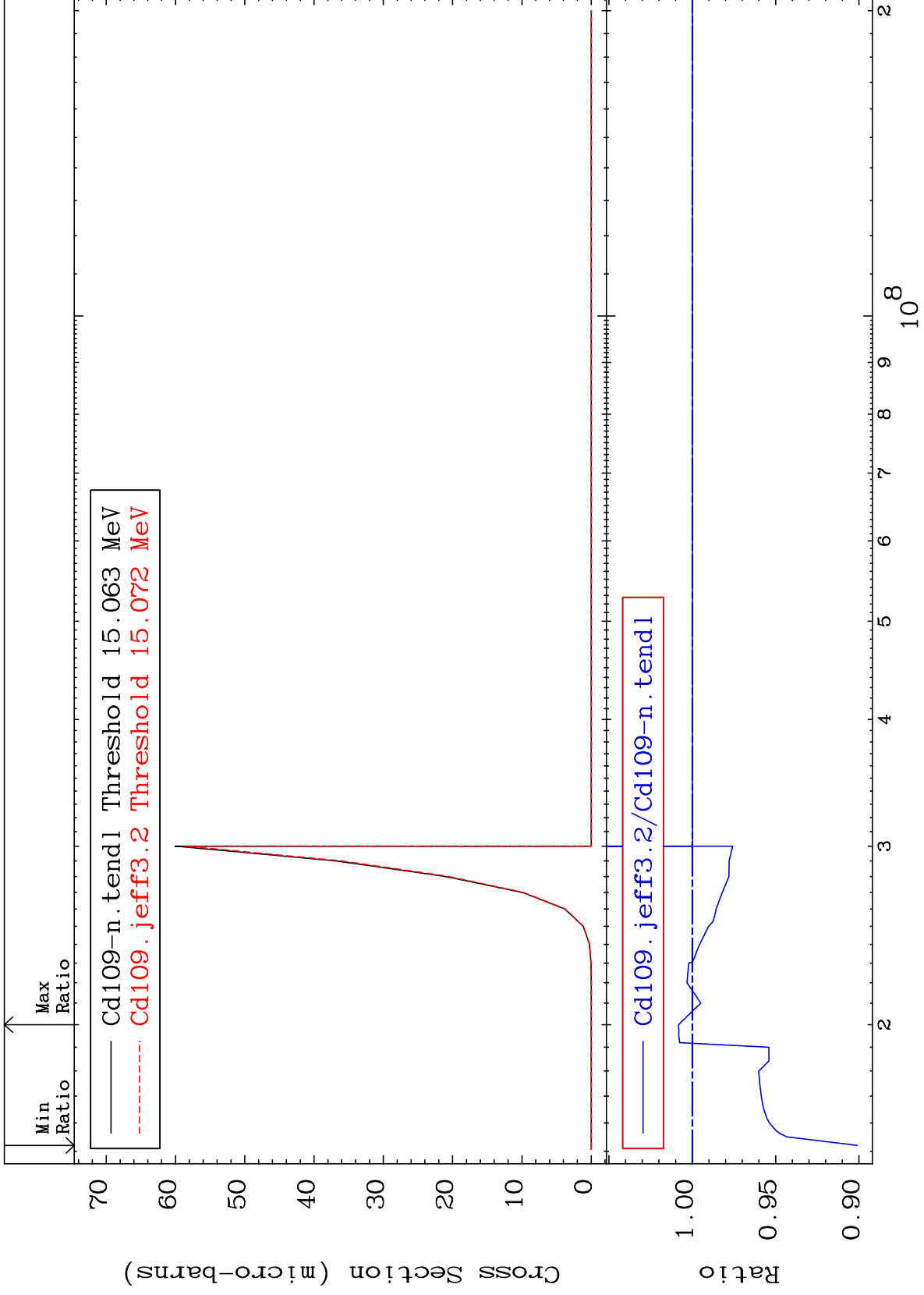


MAT 4834

(n,2n) p:46-Pd-107m2

48-Cd-109

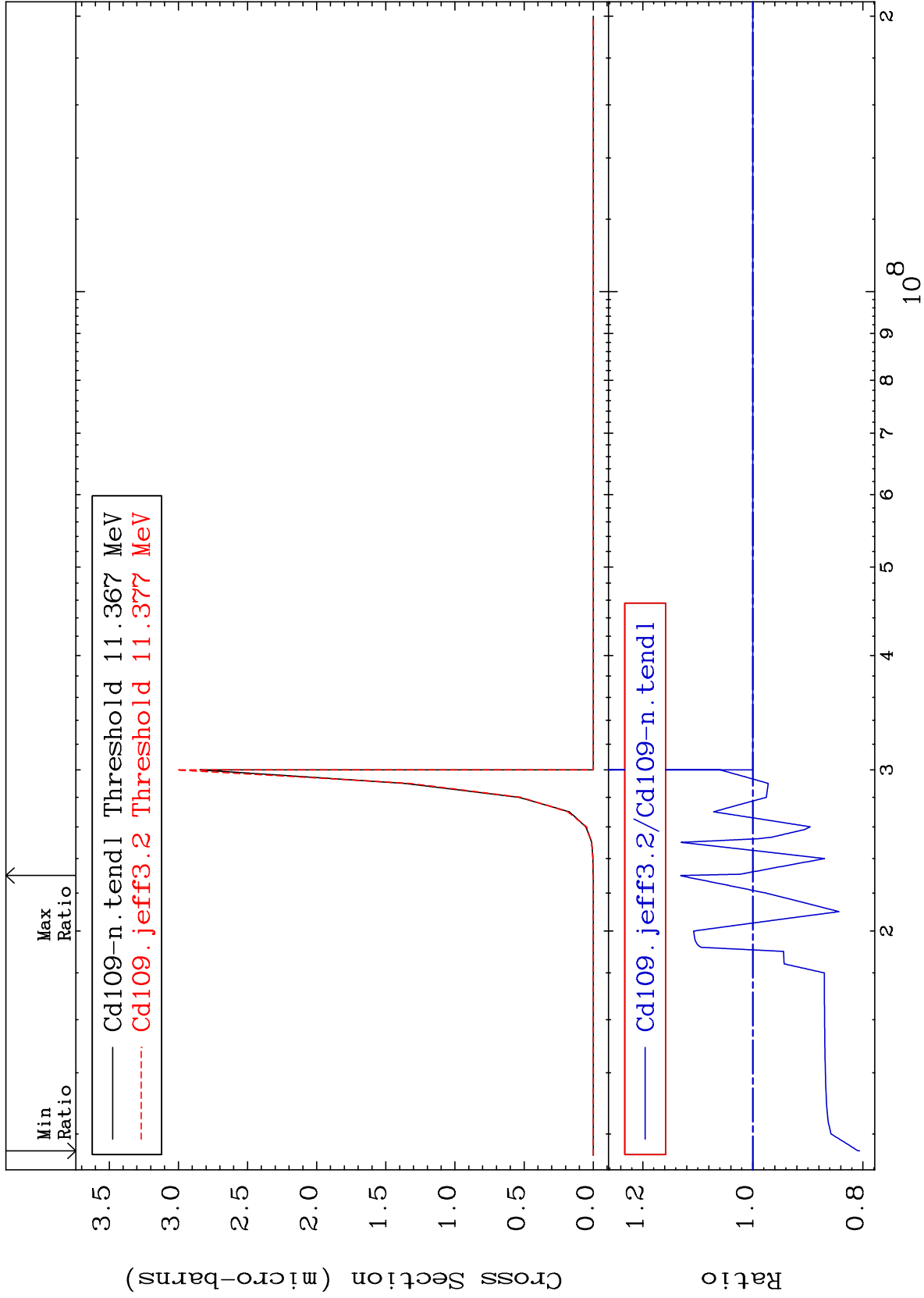
Radionuclide Production Cross Section -9.896 To 0.817 %



MAT 4834

48-Cd-109

(n,n') p α : 45-Rh-104g -19.40 To 13.09 %
Radionuclide Production Cross Section



95

Incident Energy (eV)

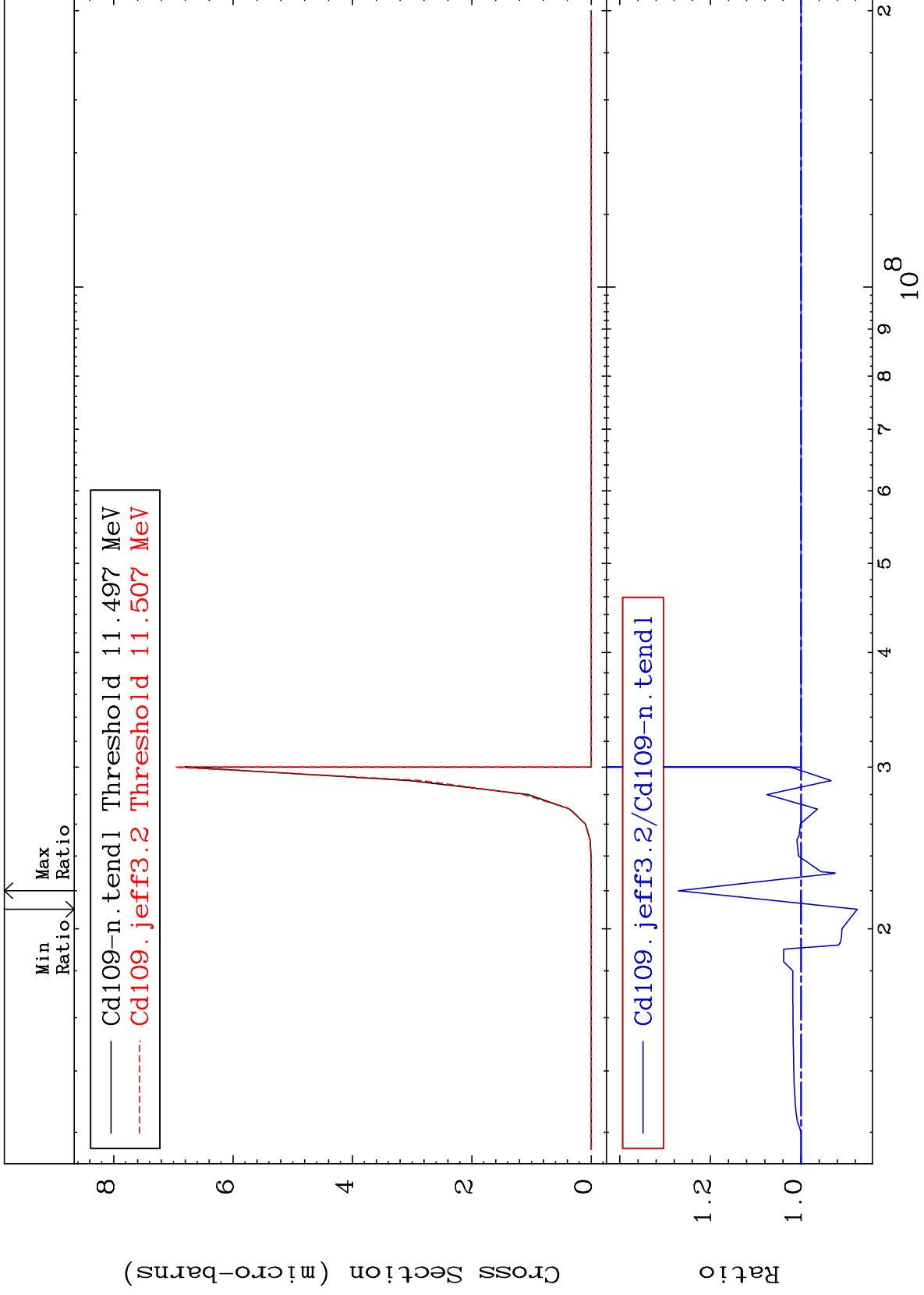
48-Cd-109

MAT 4834

(n, n') p α :45-Rh-104m3

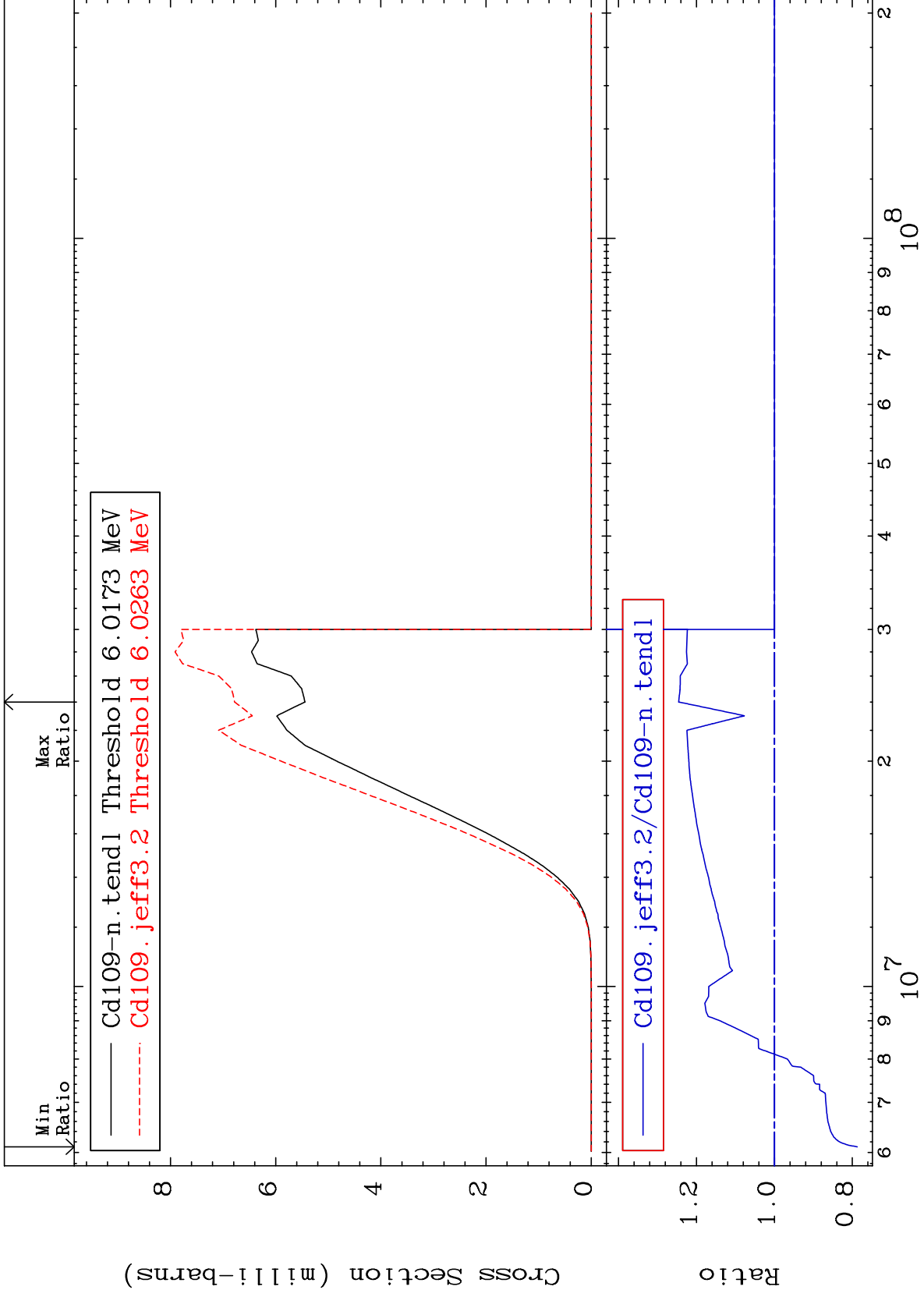
48-Cd-109

Radionuclide Production Cross Section -12.39 To 27.02 %



MAT 4834

(n,d) : 47-Ag-108g 48-Cd-109
Radionuclide Production Cross Section -21.26 To 24.57 %

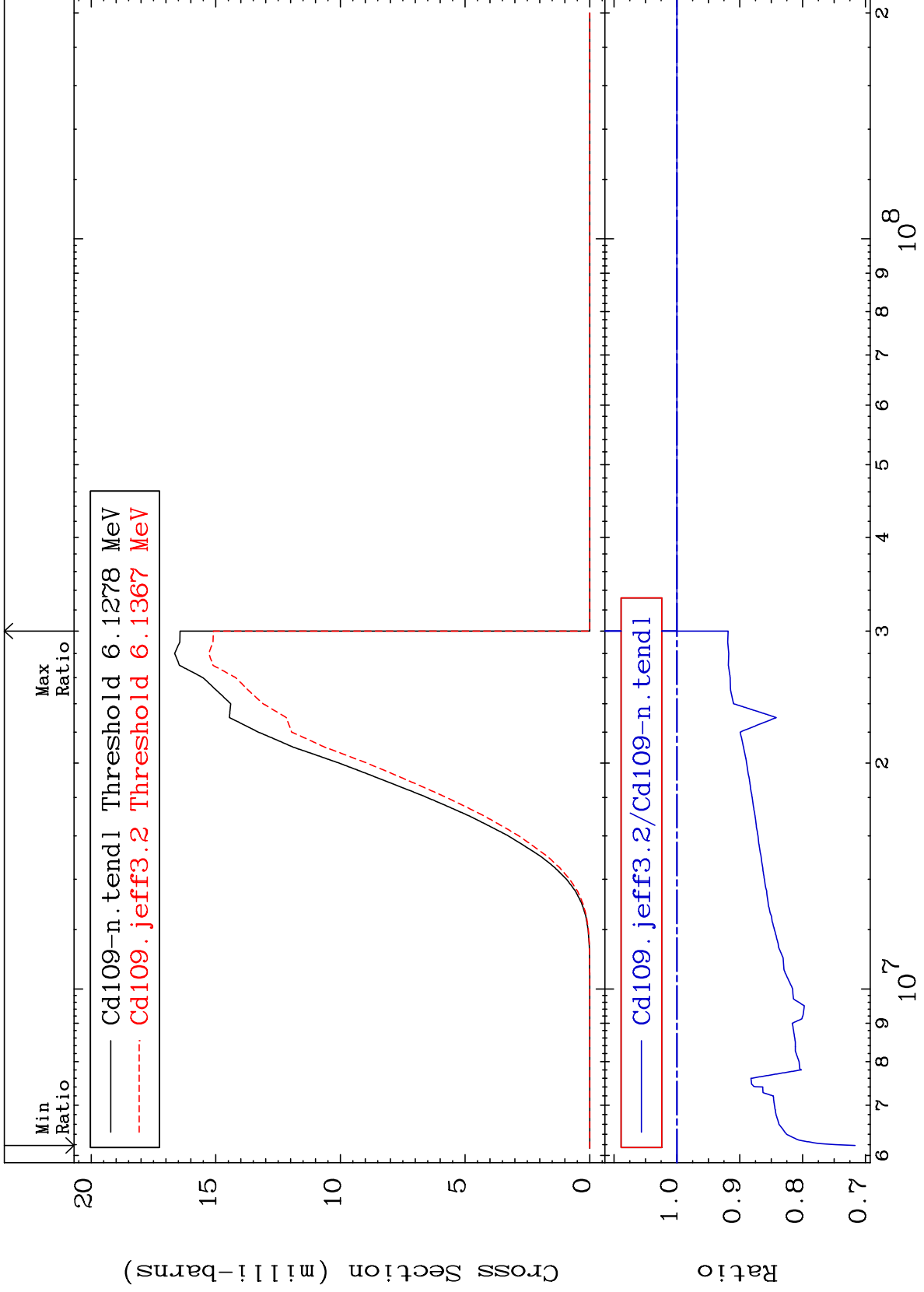


MAT 4834

(n, d) : 47-Ag-108m2

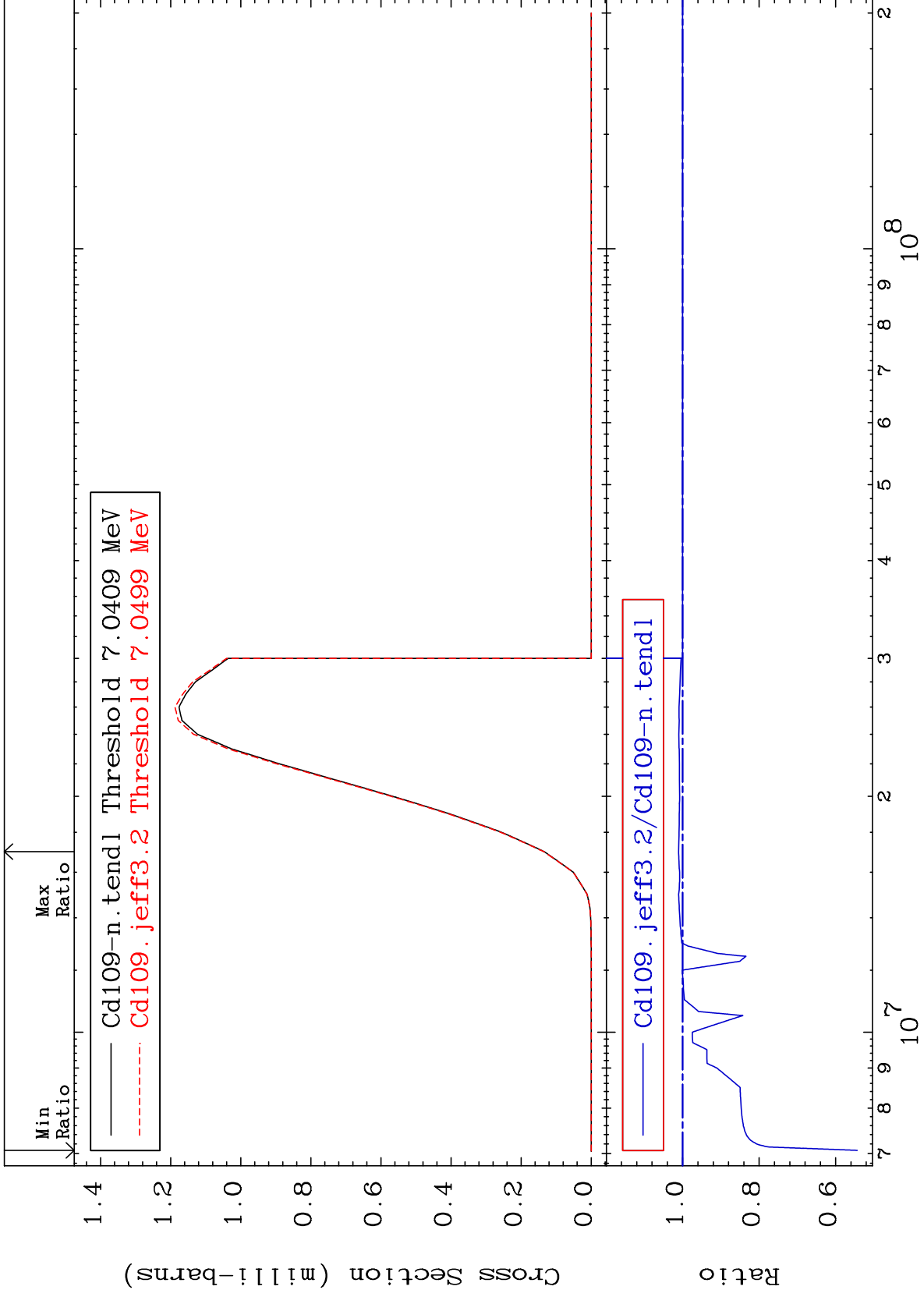
48-Cd-109

Radionuclide Production Cross Section -28.34 To 0.000 %



MAT 4834

(n, t) : 47-Ag-107g 48-Cd-109
Radionuclide Production Cross Section -45.64 To 1.043 %



99

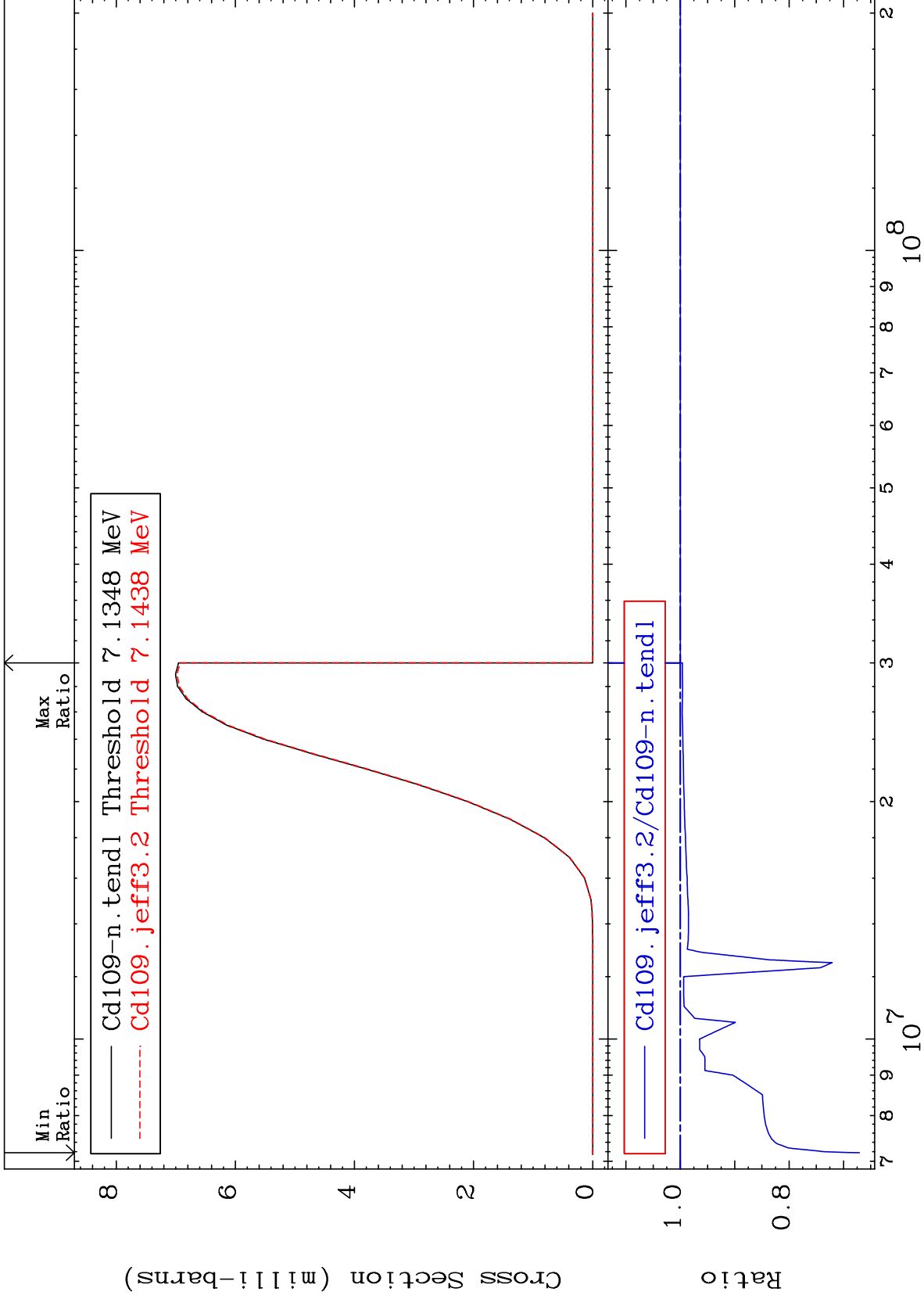
48-Cd-109

MAT 4834

(n, t):47-Ag-107m1

48-Cd-109

Radionuclide Production Cross Section -32.93 To 0.000 %



100

Incident Energy (eV)

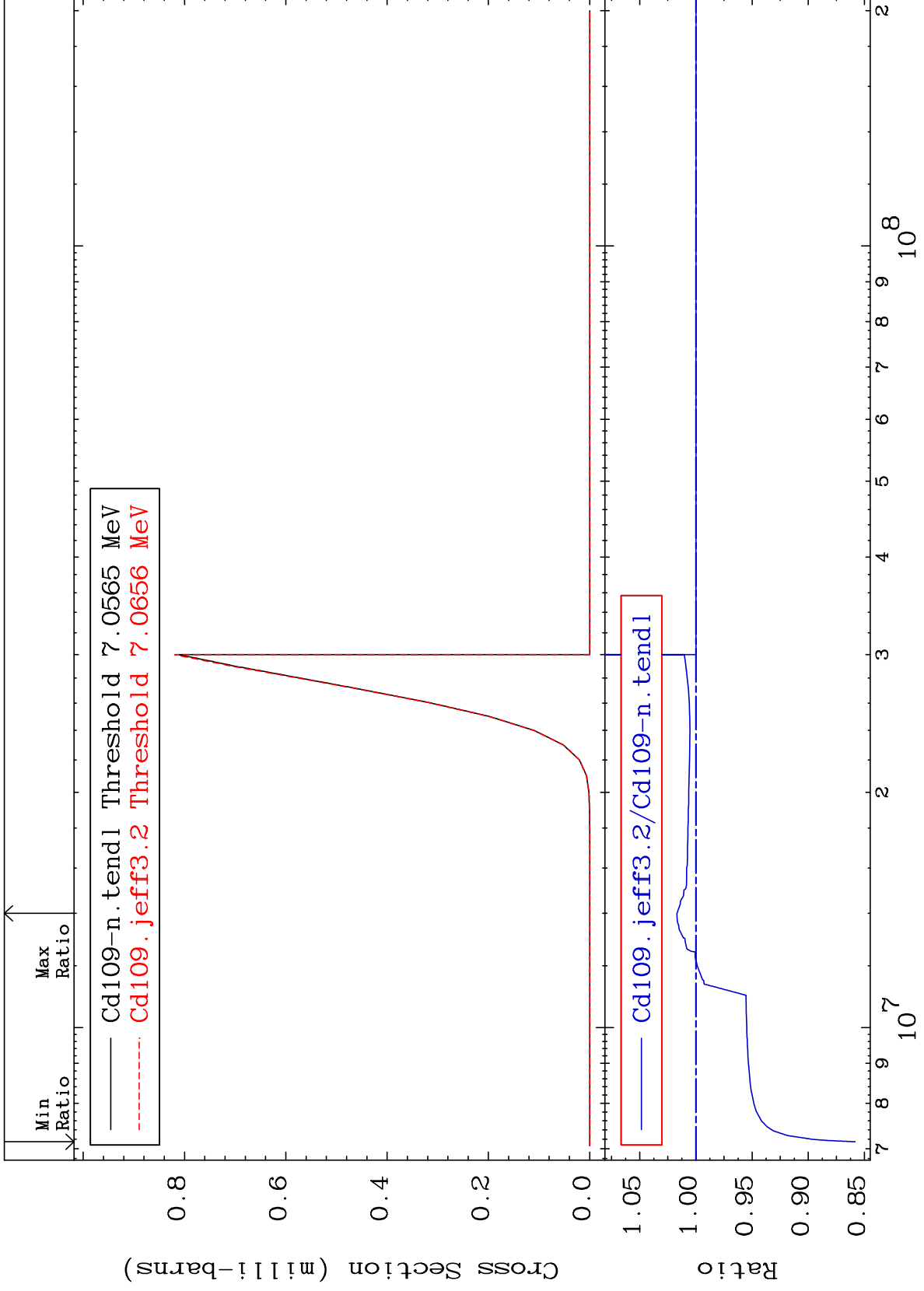
48-Cd-109

MAT 4834

(n,He-3): 46-Pd-107g

48-Cd-109

Radionuclide Production Cross Section -14.16 To 1.689 %



101

Incident Energy (eV)

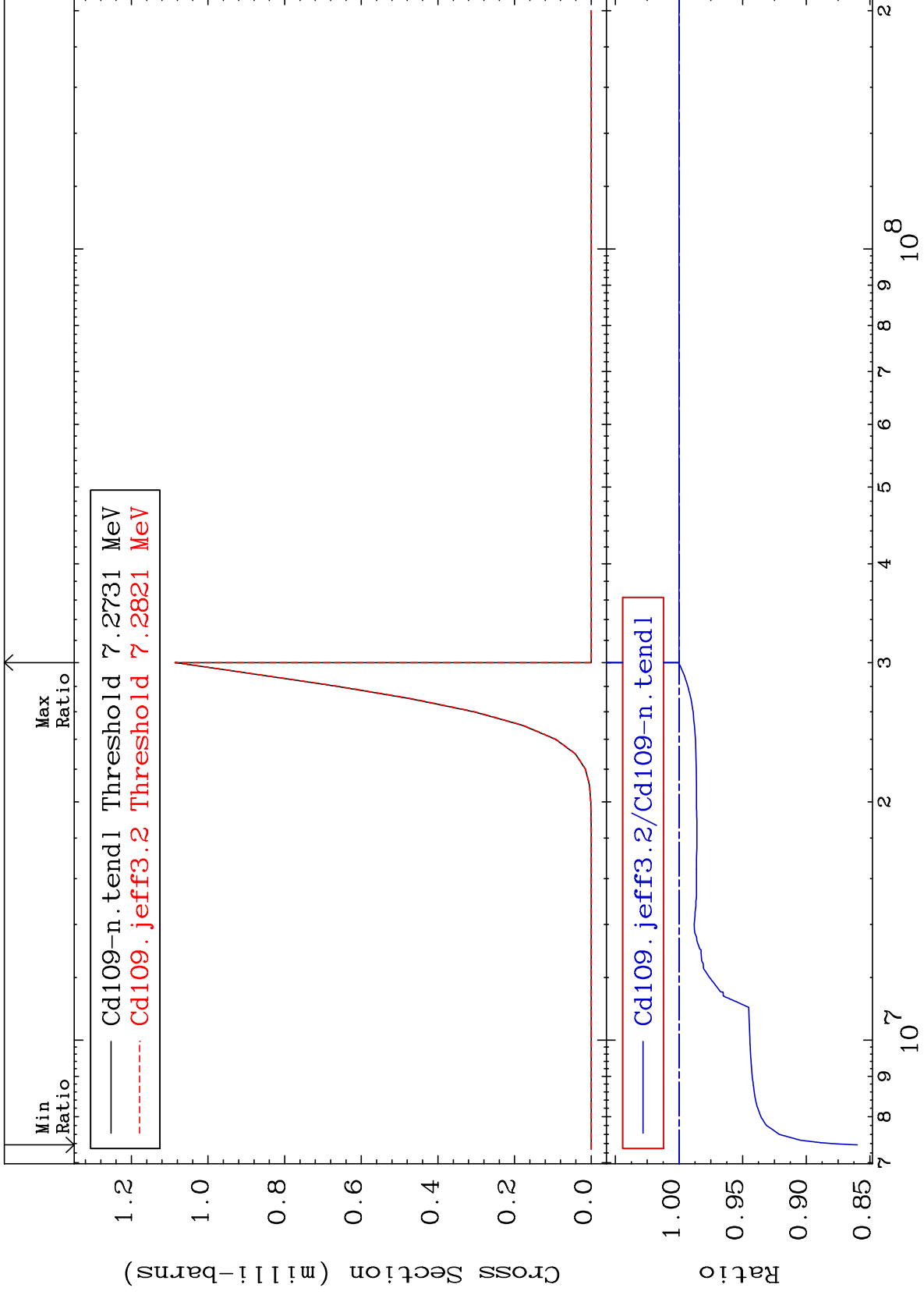
48-Cd-109

MAT 4834

(n,He-3) : 46-Pd-107m2

48-Cd-109

Radionuclide Production Cross Section -14.01 To 0.031 %



102

Incident Energy (eV)

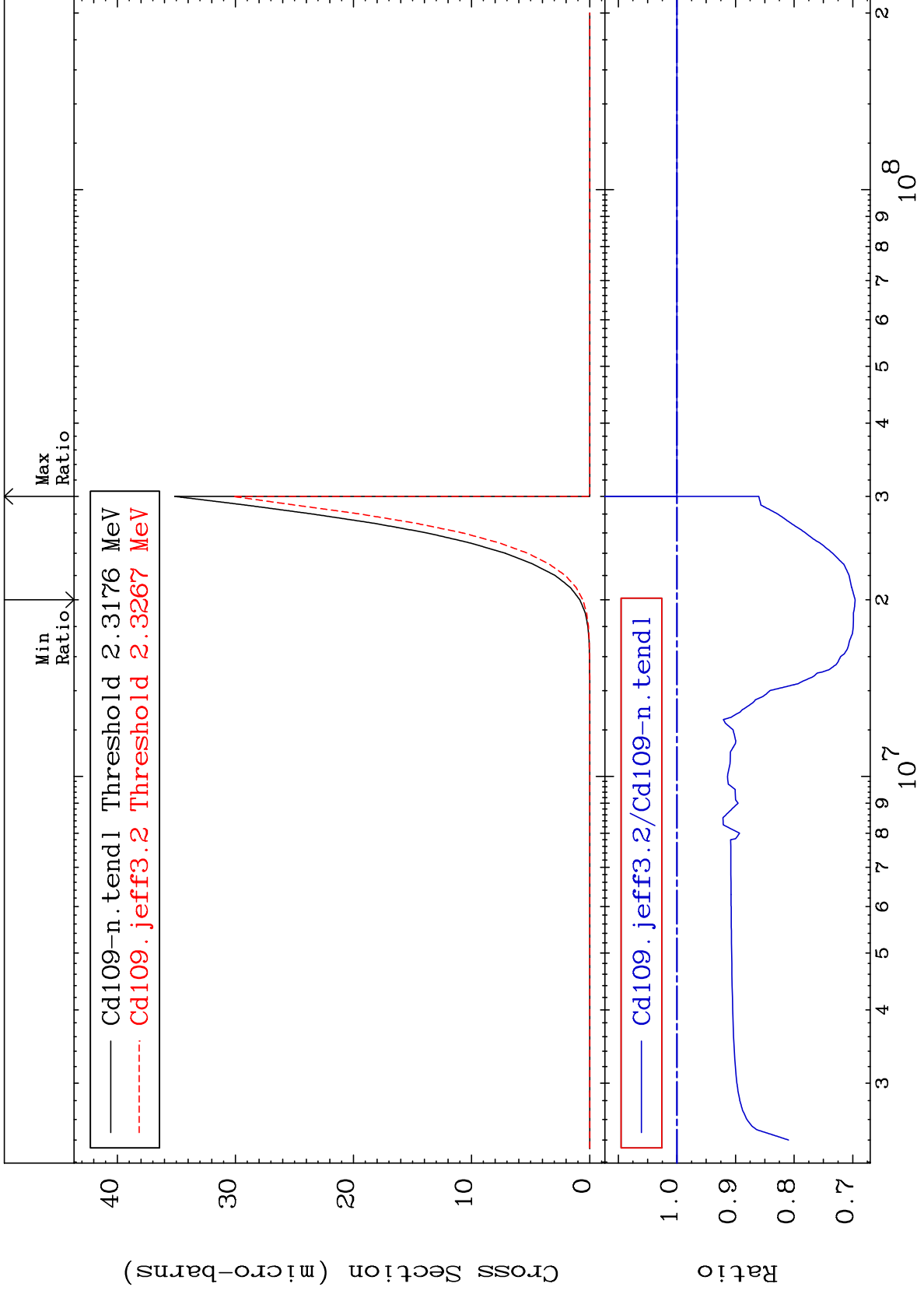
48-Cd-109

MAT 4834

(n, p) α : 45-Rh-105g

48-Cd-109

Radionuclide Production Cross Section -30.41 To 0.000 %



103

Incident Energy (eV)

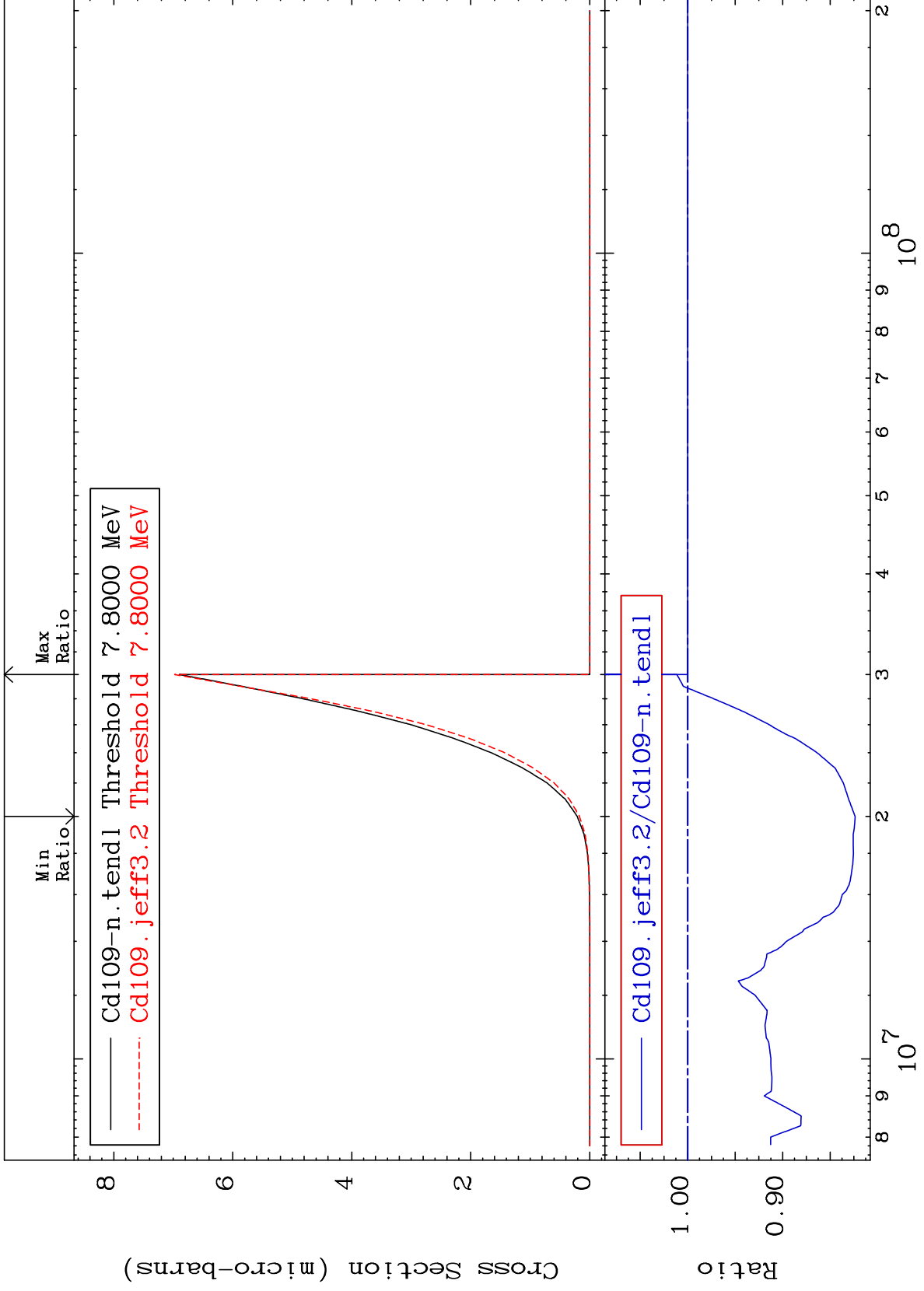
48-Cd-109

MAT 4834

(n, p) α : 45-Rh-105m1

48-Cd-109

Radionuclide Production Cross Section -17.63 To 1.137 %



104

Incident Energy (eV)

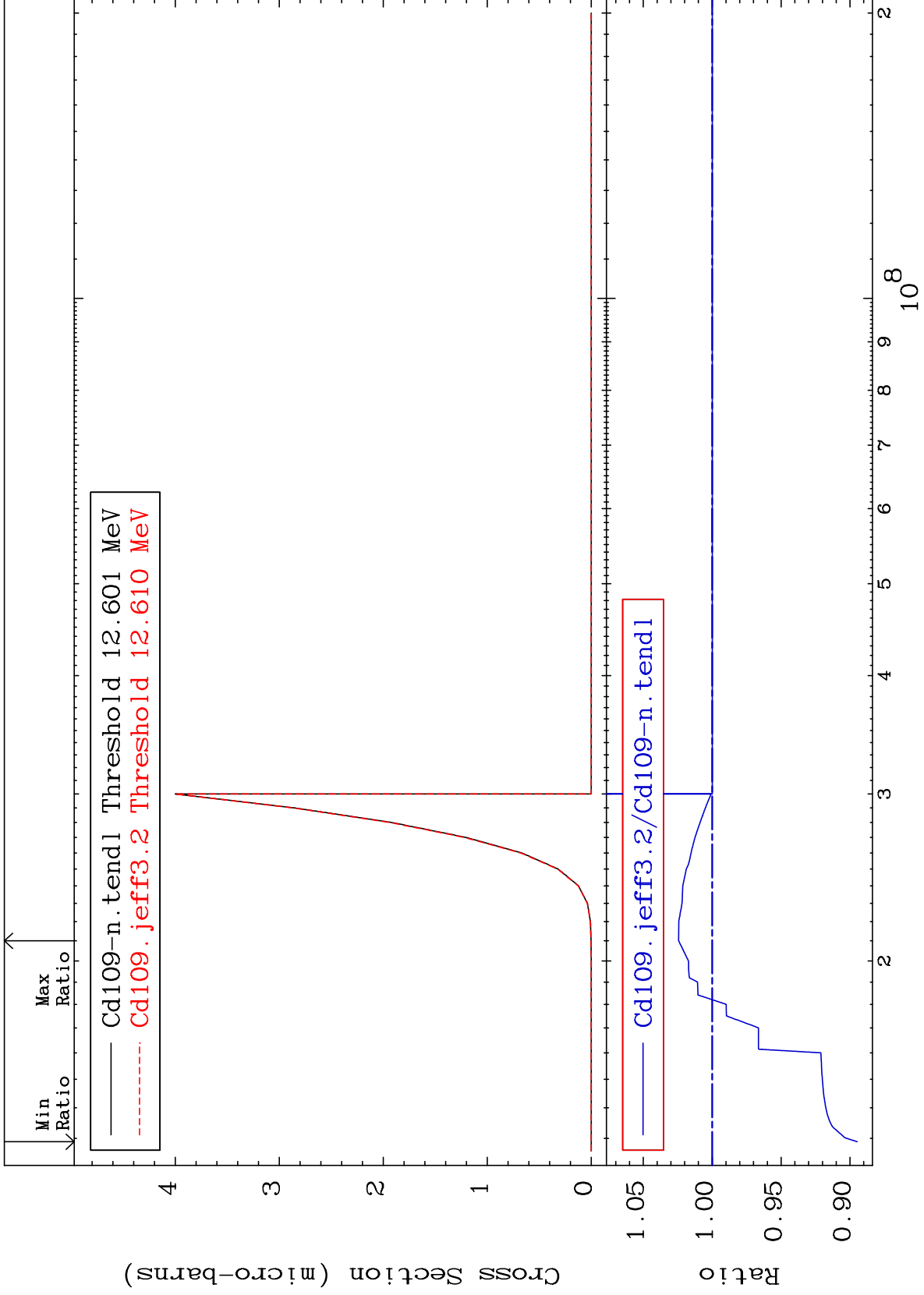
48-Cd-109

MAT 4834

(n, p) d: 46-Pd-107g

48-Cd-109

Radionuclide Production Cross Section -10.53 To 2.436 %



105

Incident Energy (eV)

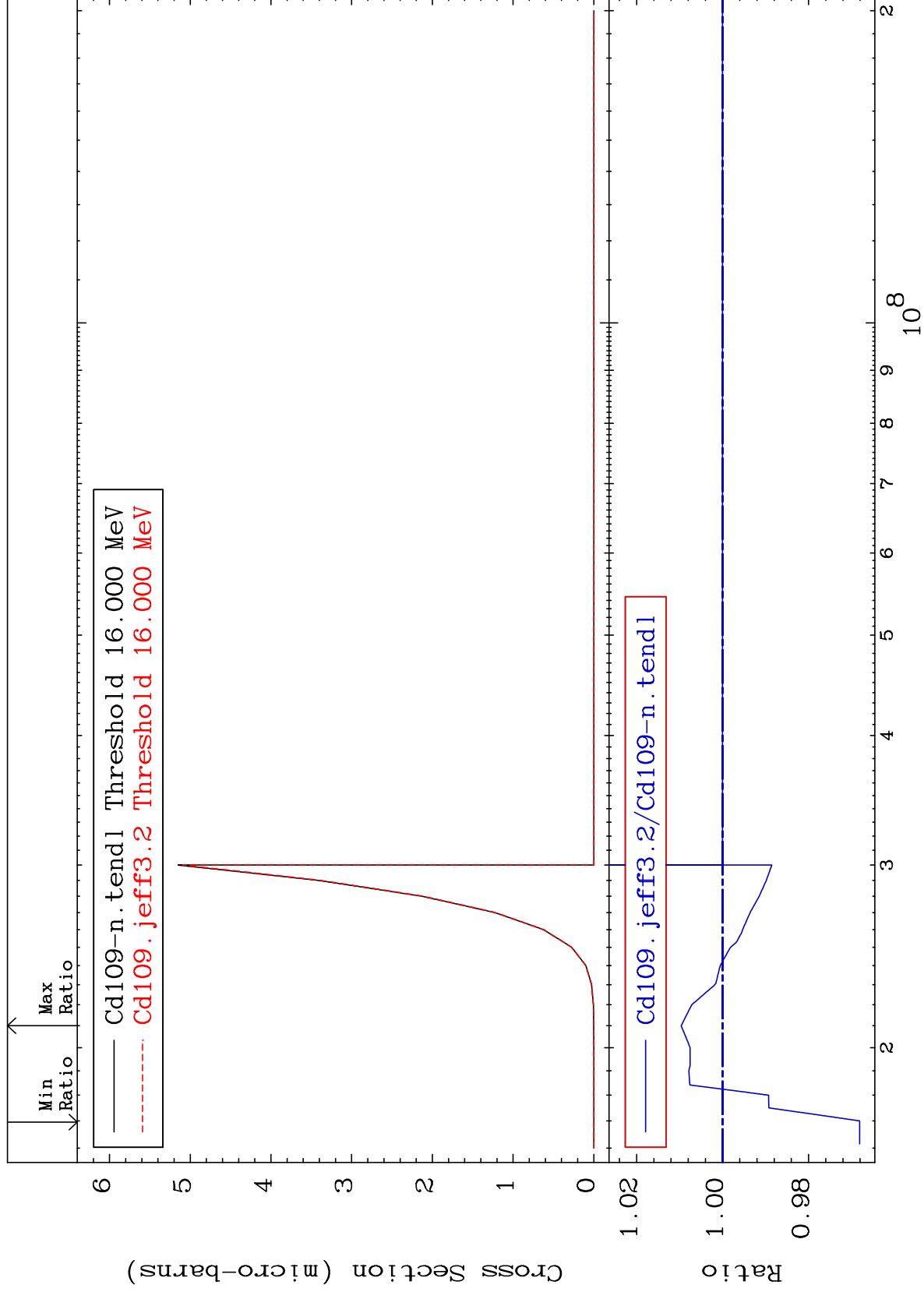
48-Cd-109

MAT 4834

(n,p) d:46-Pd-107m2

48-Cd-109

Radionuclide Production Cross Section -3.189 To 0.963 %



106

Incident Energy (eV)

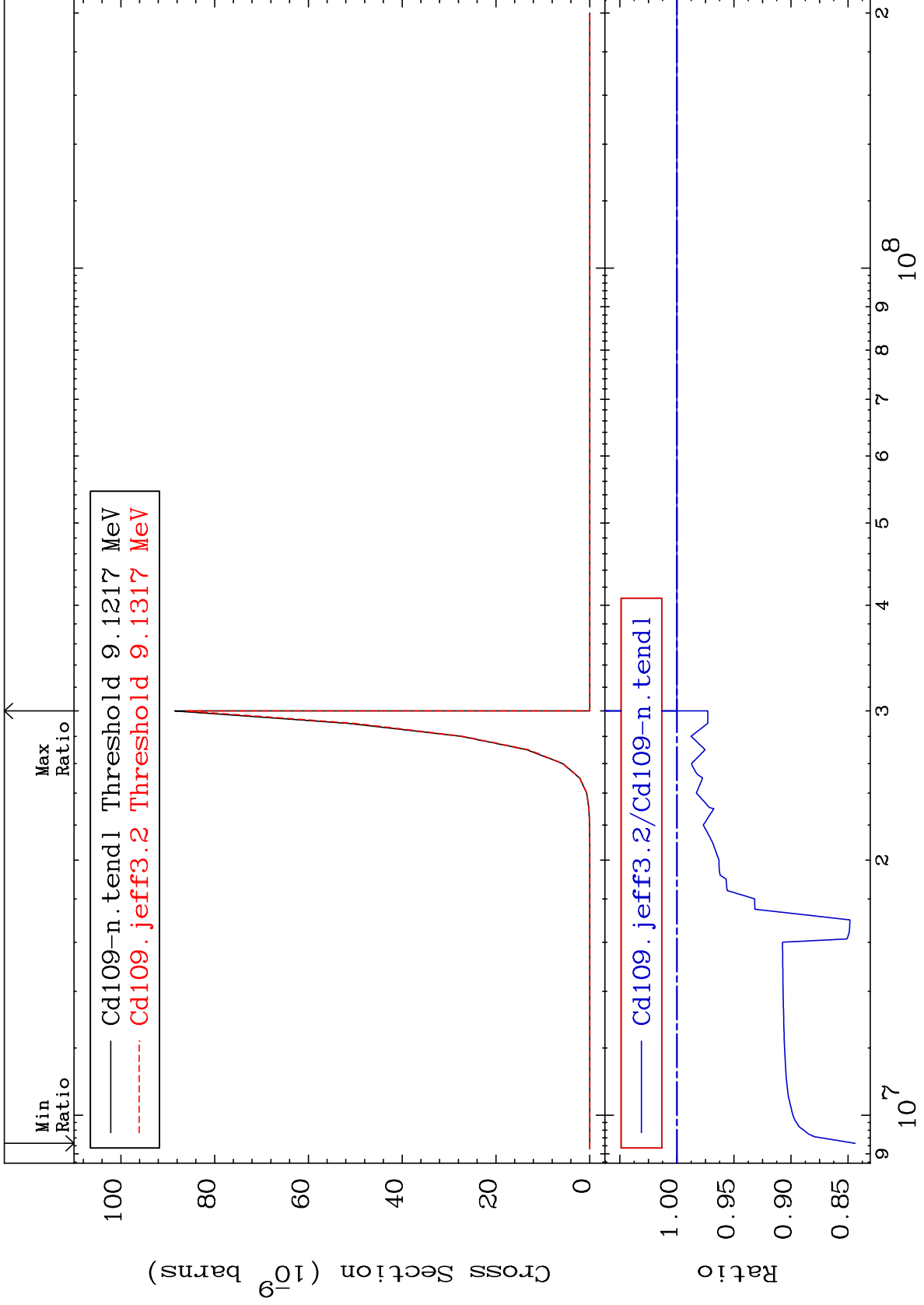
48-Cd-109

MAT 4834

(n, d) α : 45-Rh-104g

48-Cd-109

Radionuclide Production Cross Section -15.62 To 0.000 %



107

Incident Energy (eV)

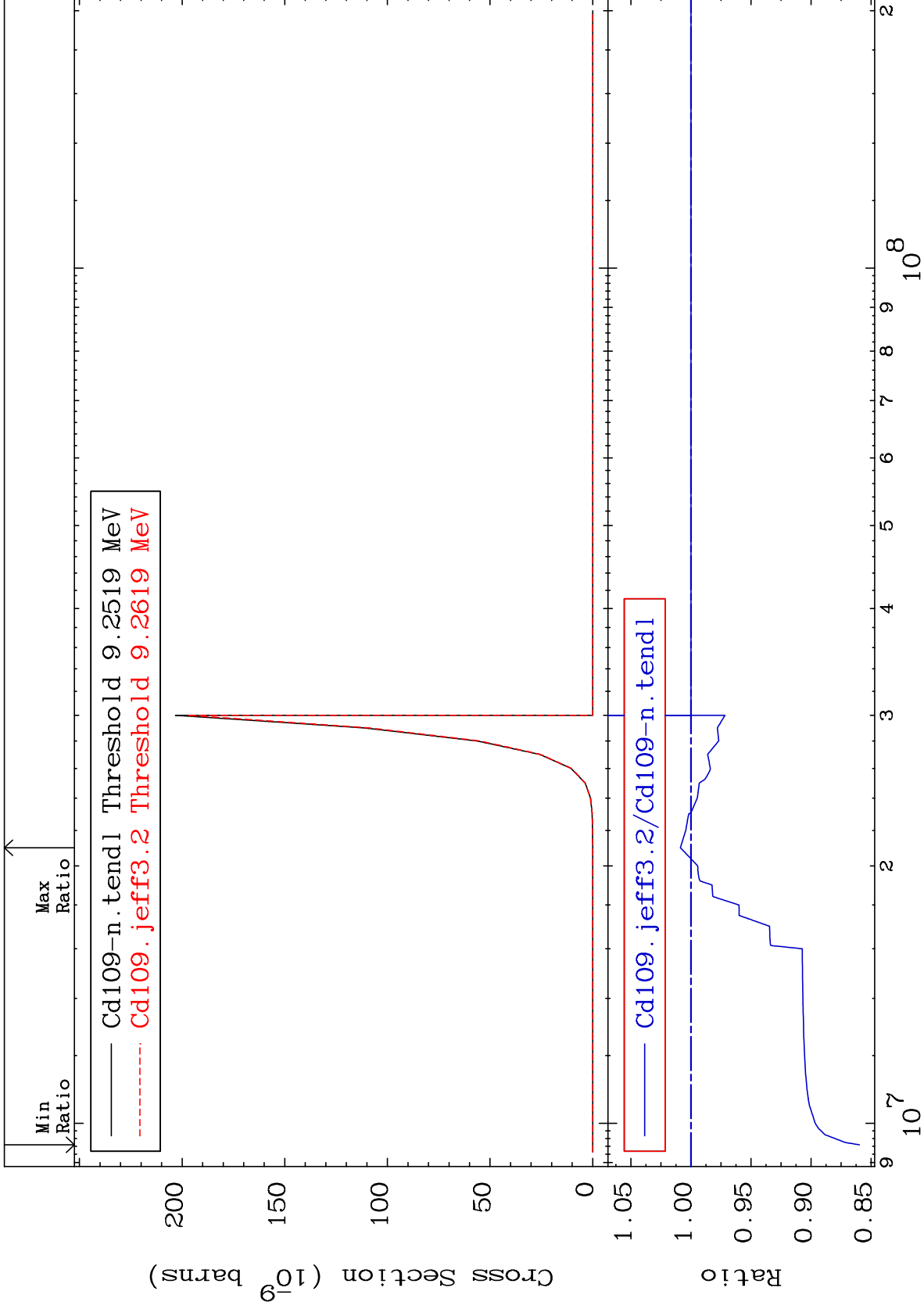
48-Cd-109

MAT 4834

(n,d) α :45-Rh-104m3

48-Cd-109

Radionuclide Production Cross Section -14.02 To 0.881 %



Incident Energy (eV)

48-Cd-109