

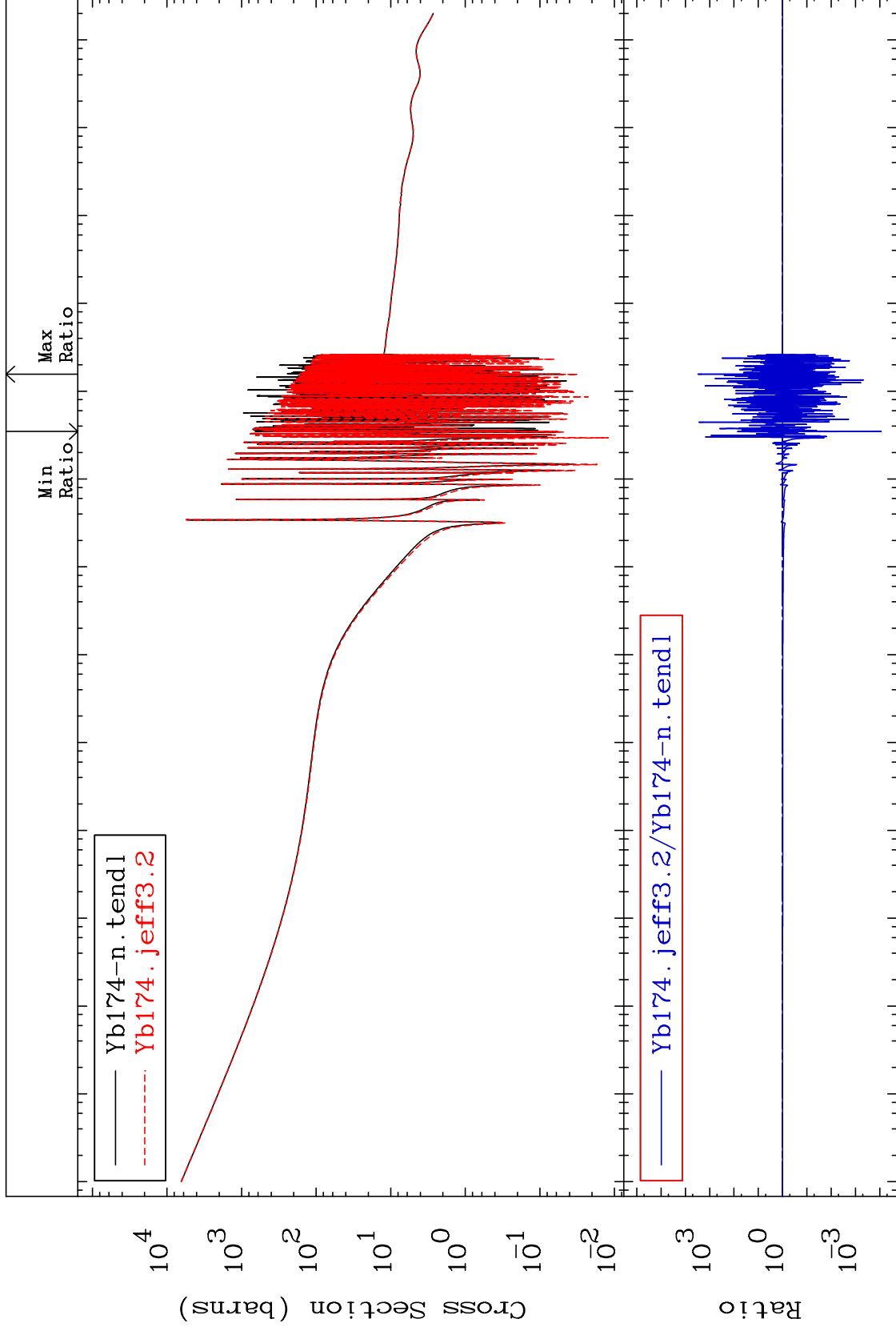
MAT 7043

Total

70-Yb-174

Cross Section

-99.99 To 9999. %



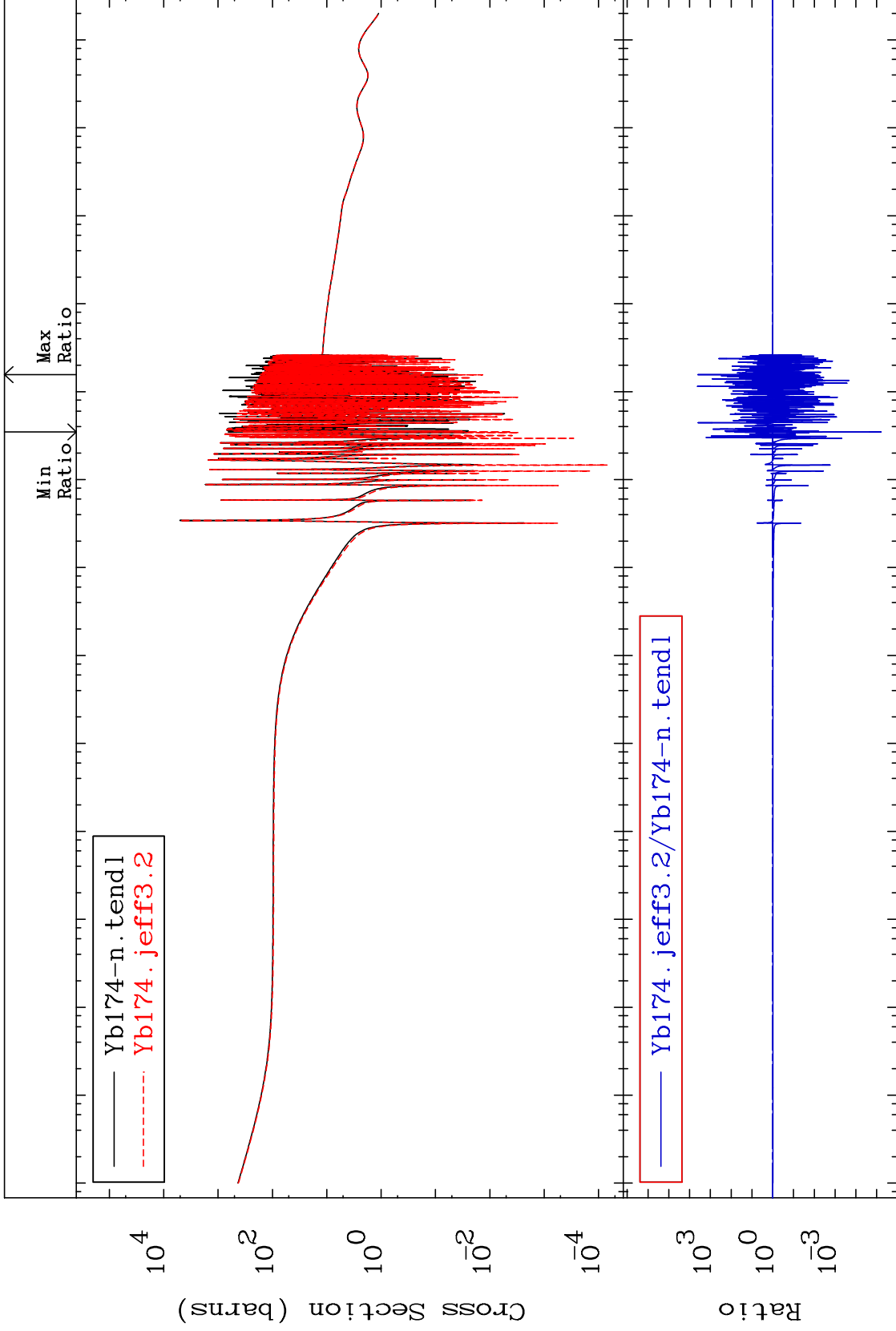
Incident Energy (eV)

70-Yb-174

MAT 7043

Elastic
Cross Section

70-Yb-174
-100.0 To 9999. %



Incident Energy (eV)

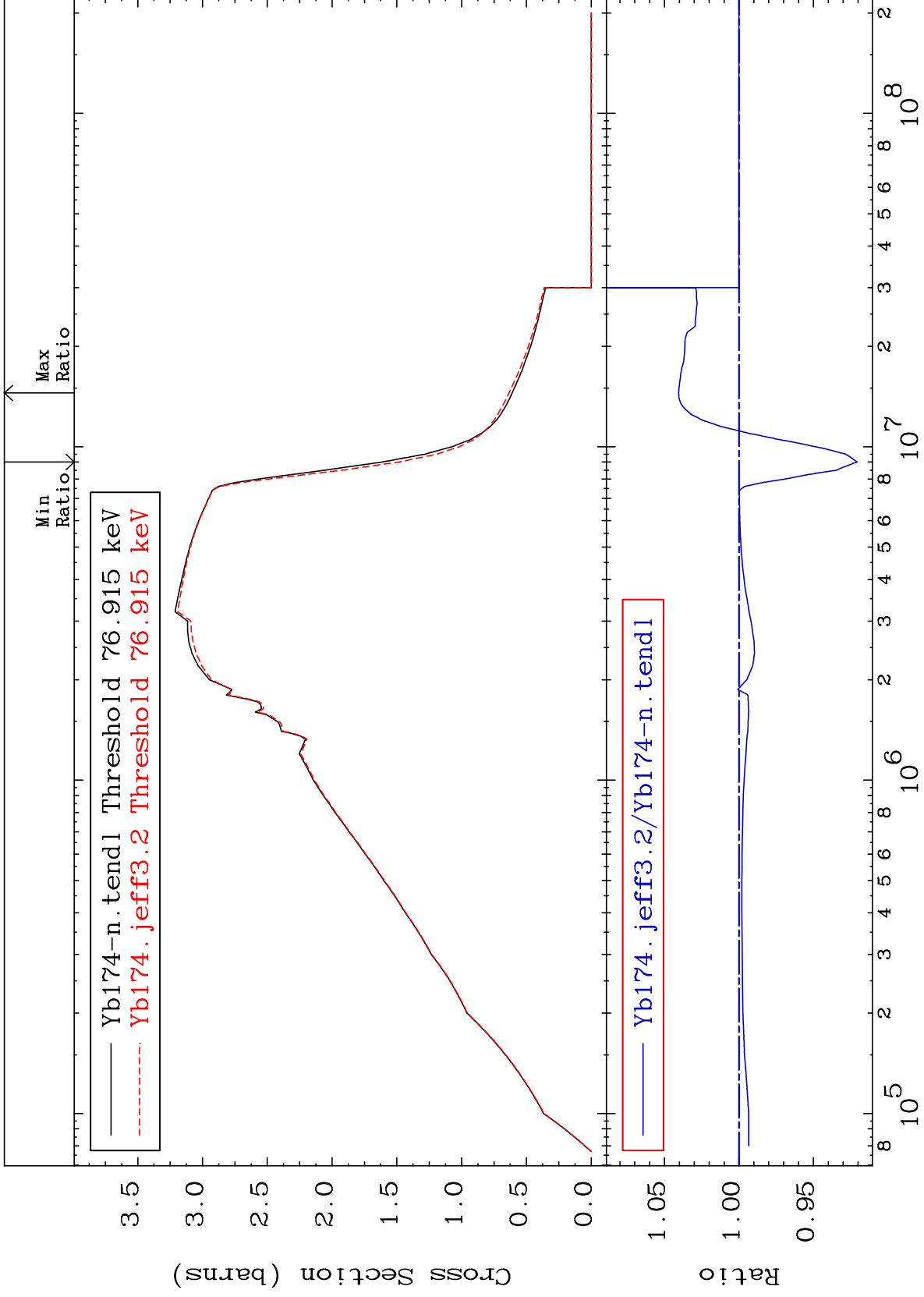
70-Yb-174

2

MAT 7043

Inelastic
Cross Section

70-Yb-174
-7.947 To 4.052 %



3

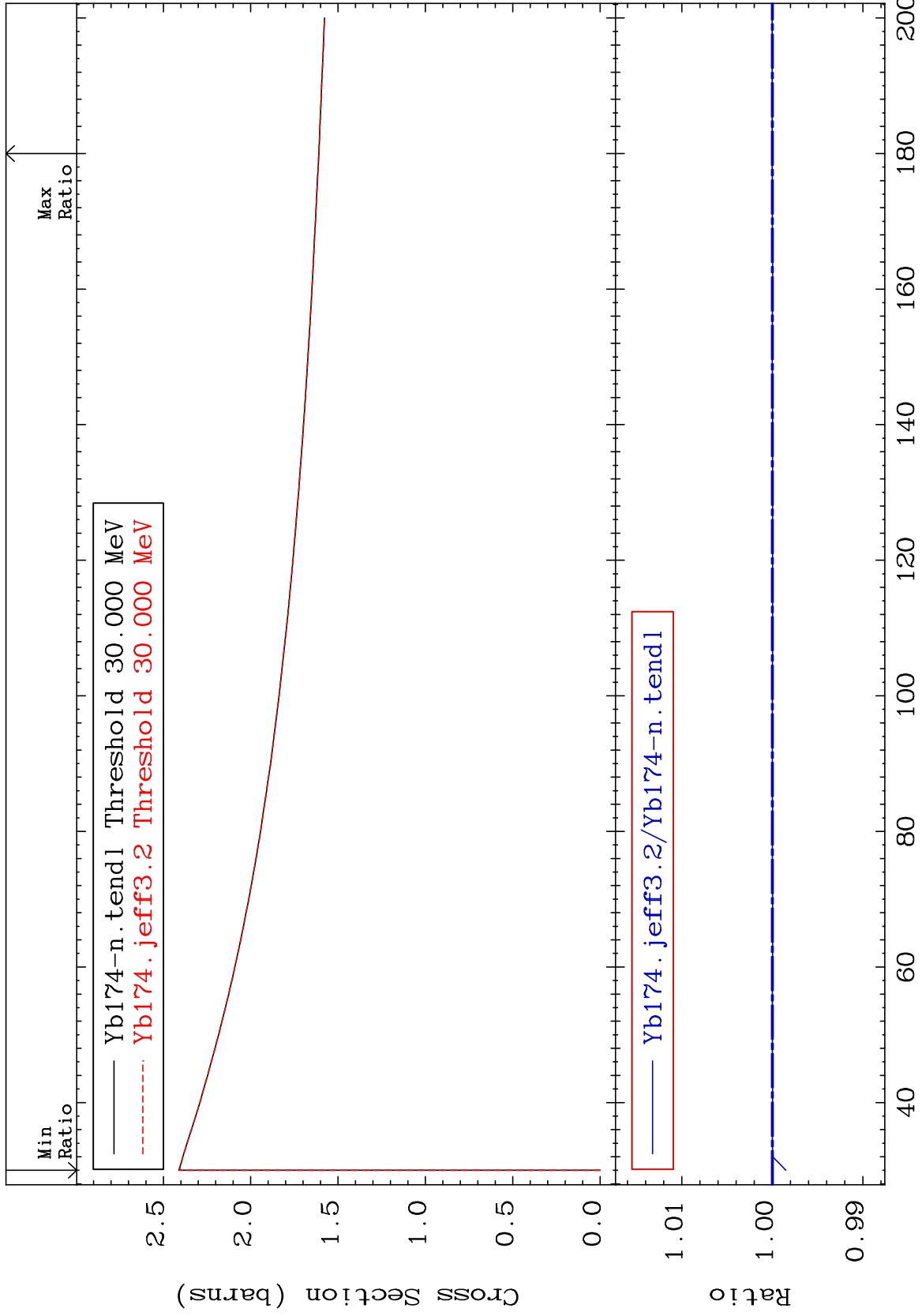
Incident Energy (eV)

70-Yb-174

MAT 7043

(n, remainder)
Cross Section

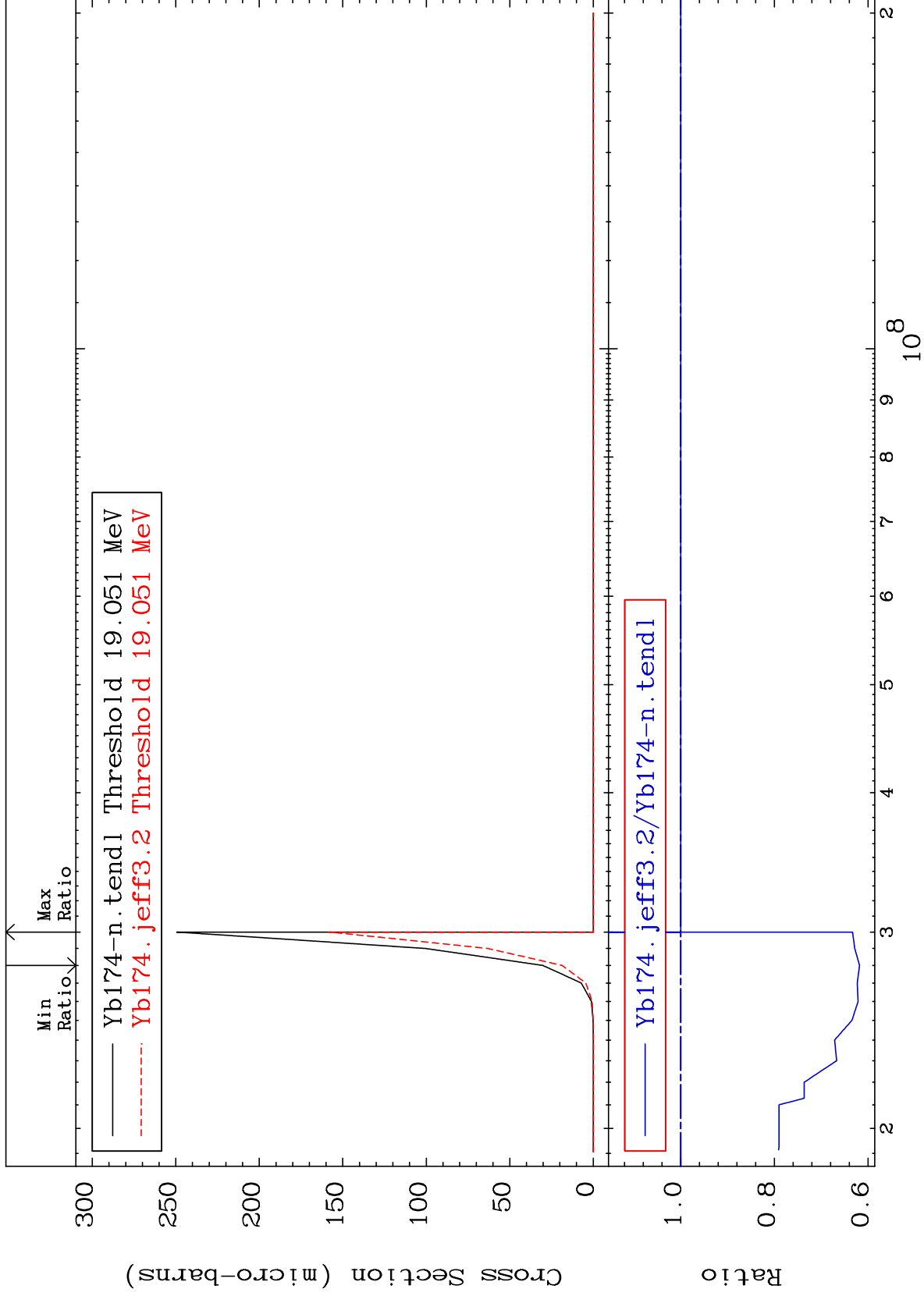
70-Yb-174
-0.149 To 0.002 %



MAT 7043

(n,2n) d
Cross Section

⁷⁰Yb-174
-38.17 To 0.000 %



5

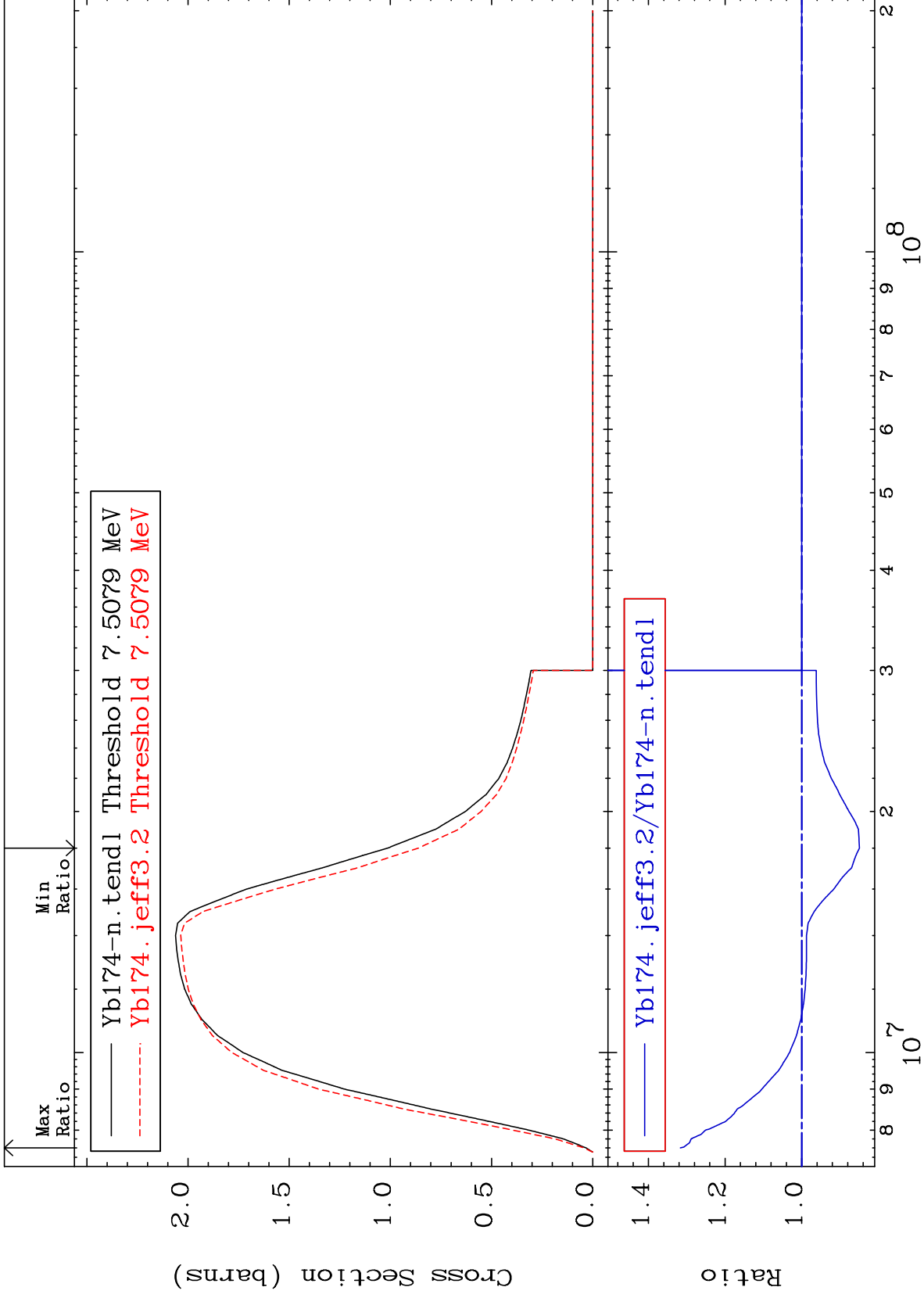
Incident Energy (eV)

⁷⁰Yb-174

MAT 7043

(n,2n)
Cross Section

⁷⁰Yb-174
-15.05 To 31.67 %



6

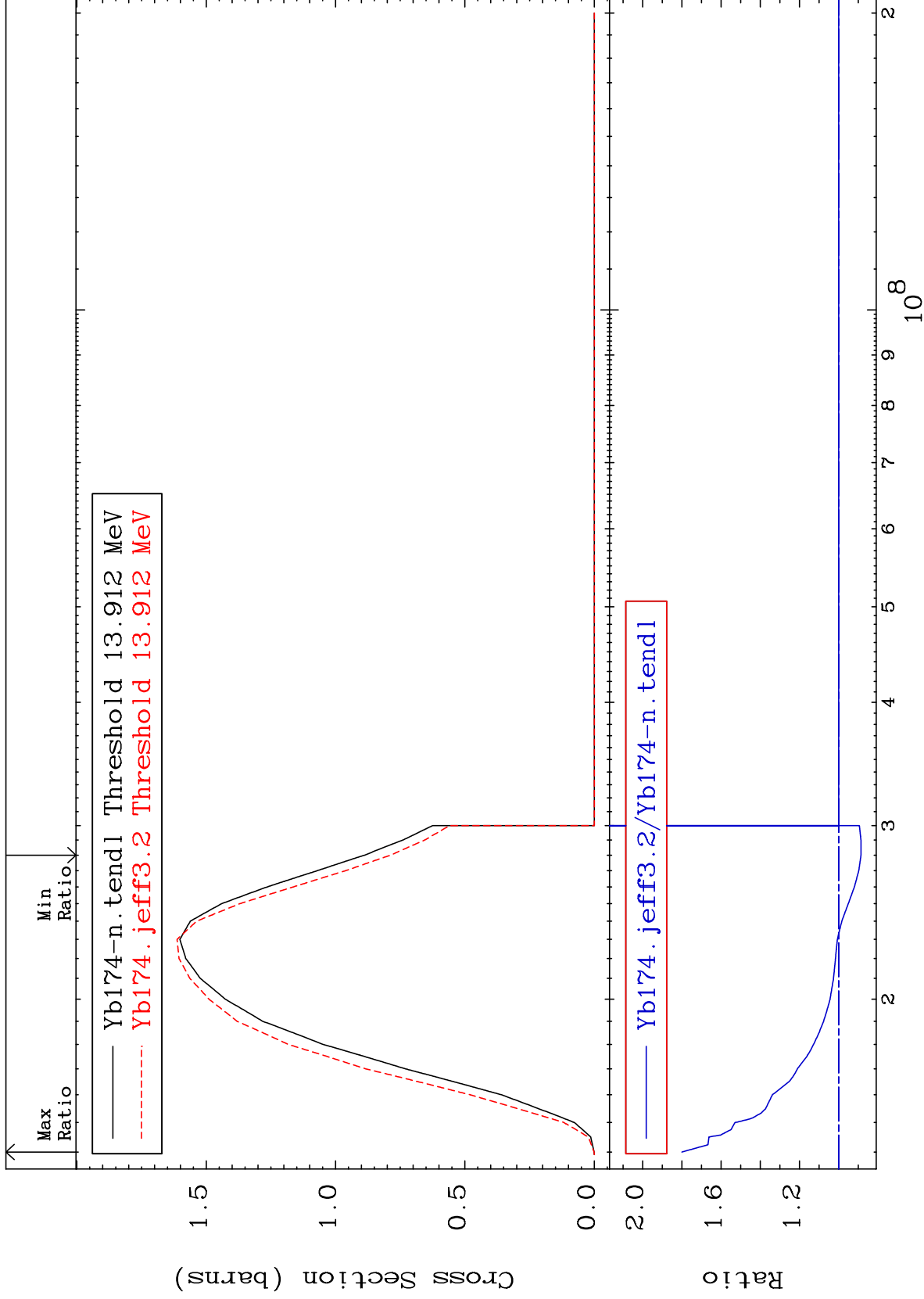
Incident Energy (eV)

⁷⁰Yb-174

MAT 7043

(n,3n)
Cross Section

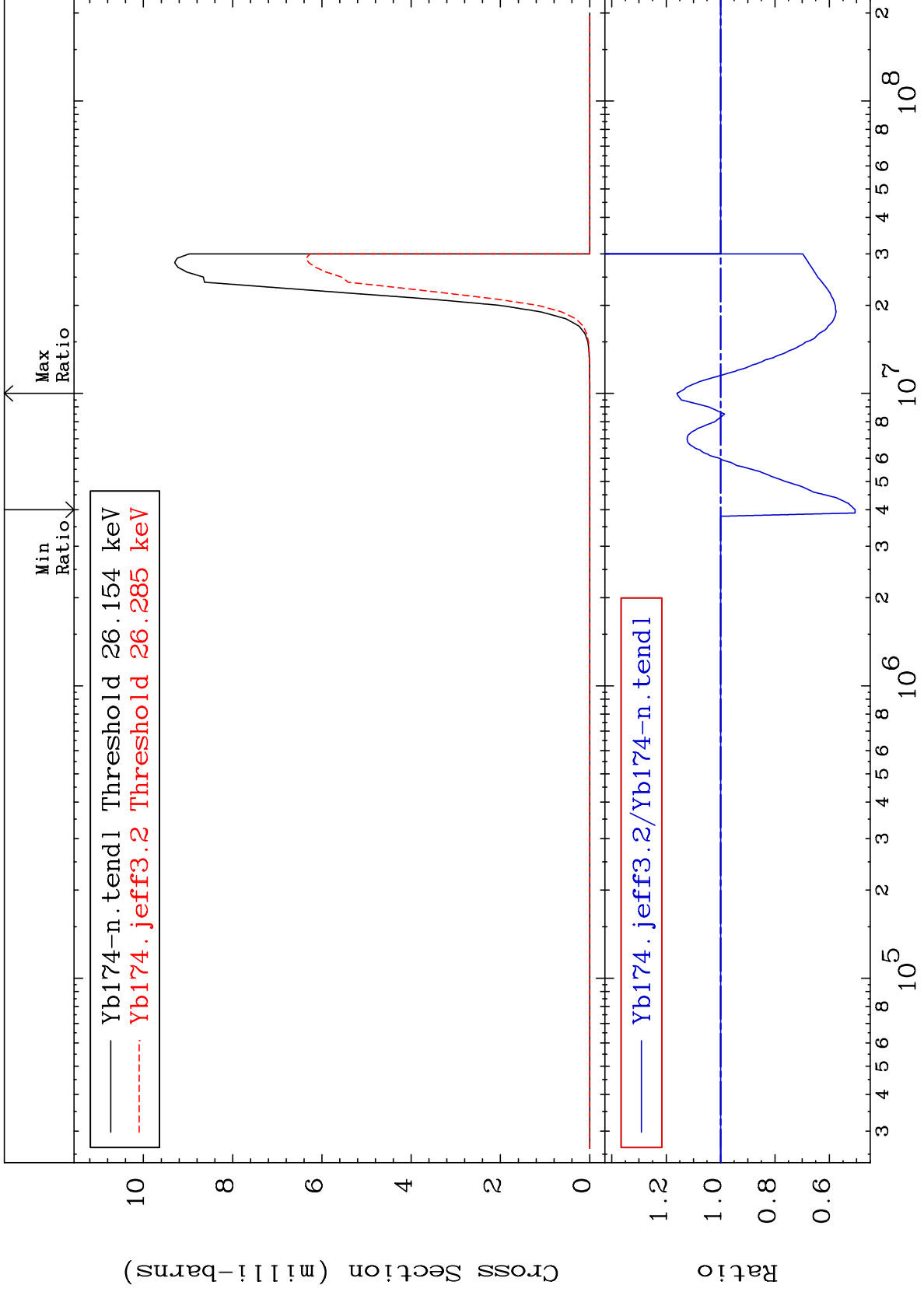
⁷⁰Yb-174
-11.37 To 79.97 %



MAT 7043

$(n, n') \alpha$
Cross Section

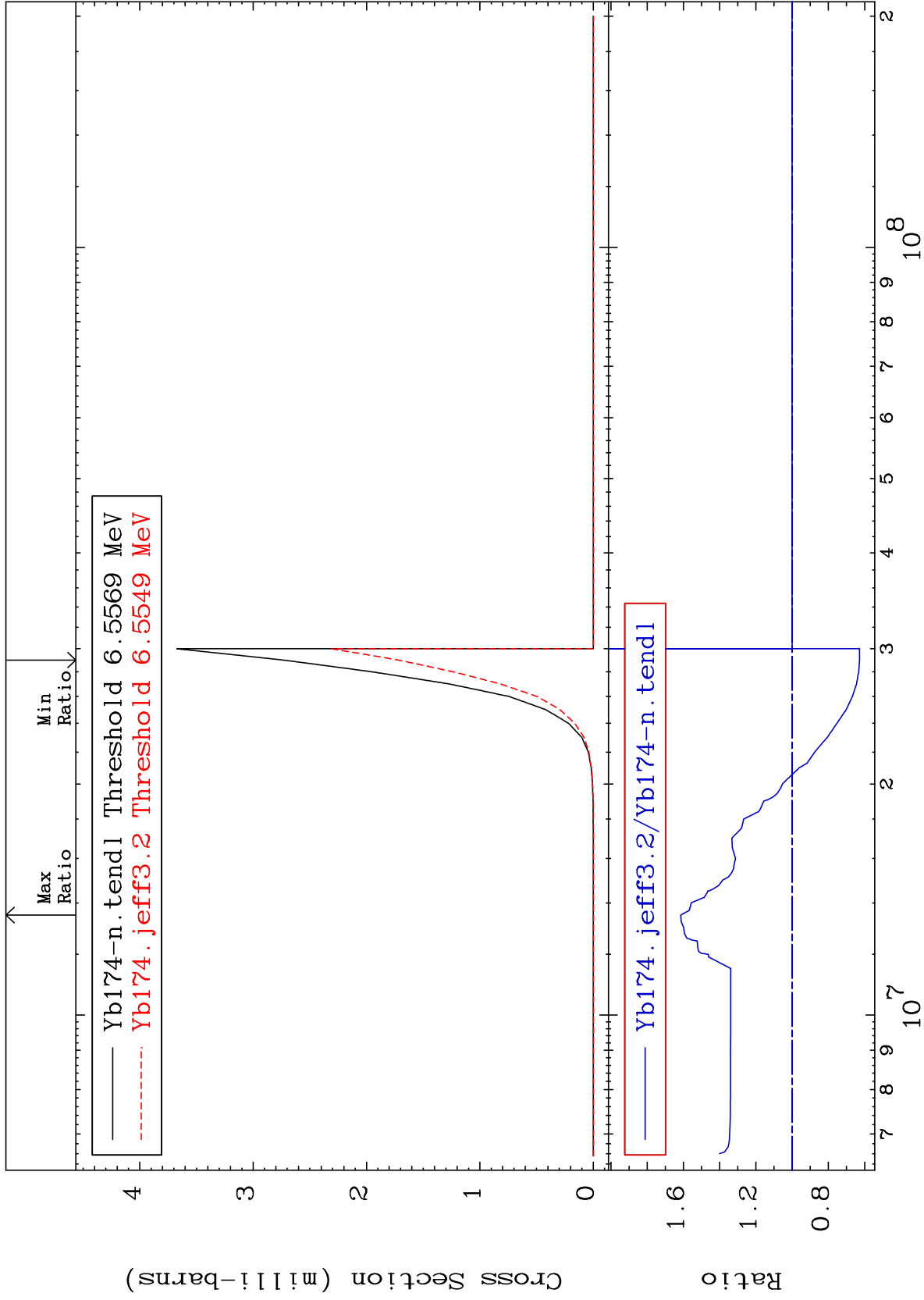
$^{70}\text{Yb-174}$
-49.46 To 16.06 %



MAT 7043

(n,2n) α
Cross Section

⁷⁰Yb-174
-37.19 To 61.52 %



9

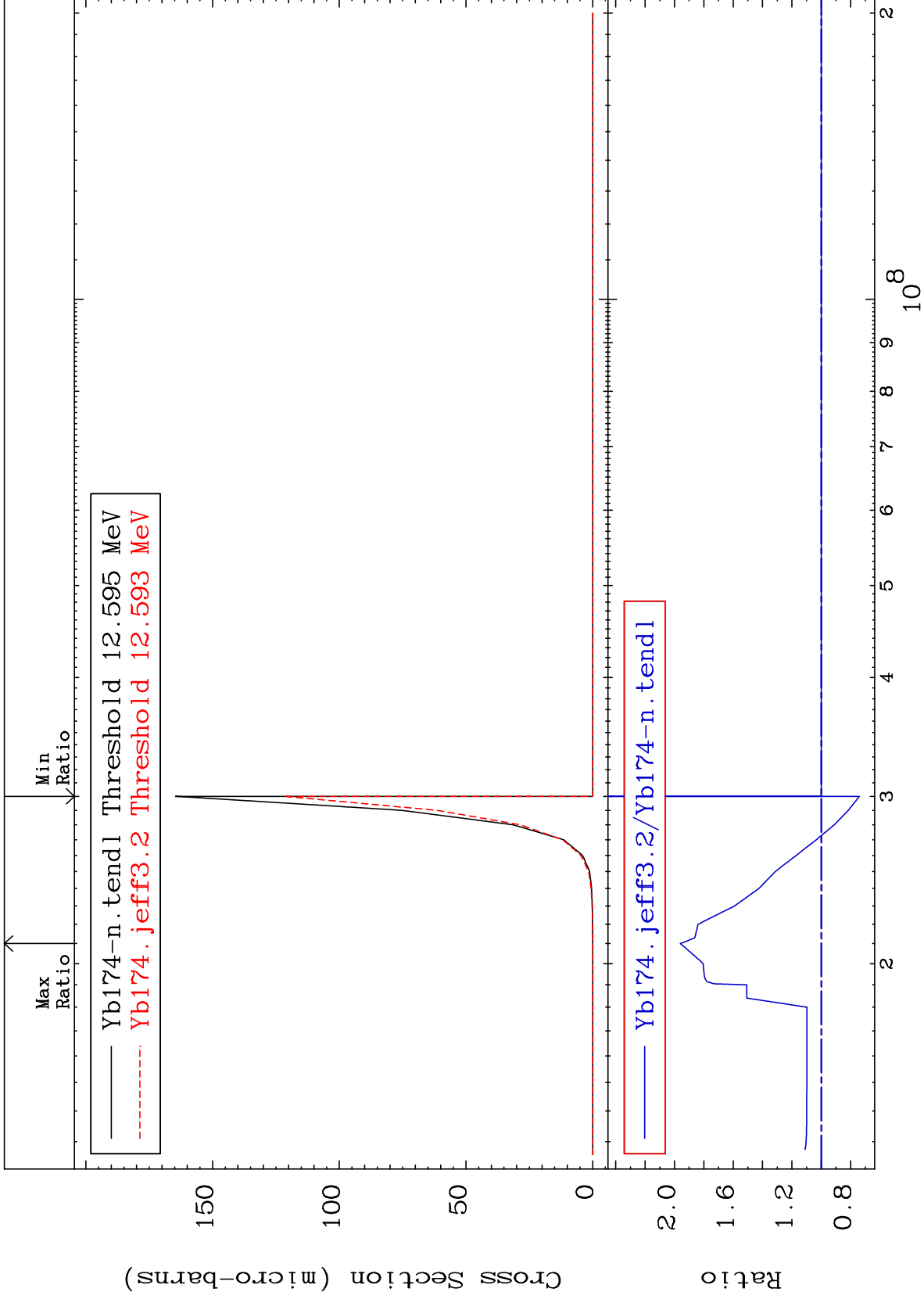
Incident Energy (eV)

⁷⁰Yb-174

MAT 7043

(n,3n) α
Cross Section

⁷⁰Yb-174
-25.99 To 96.00 %



10

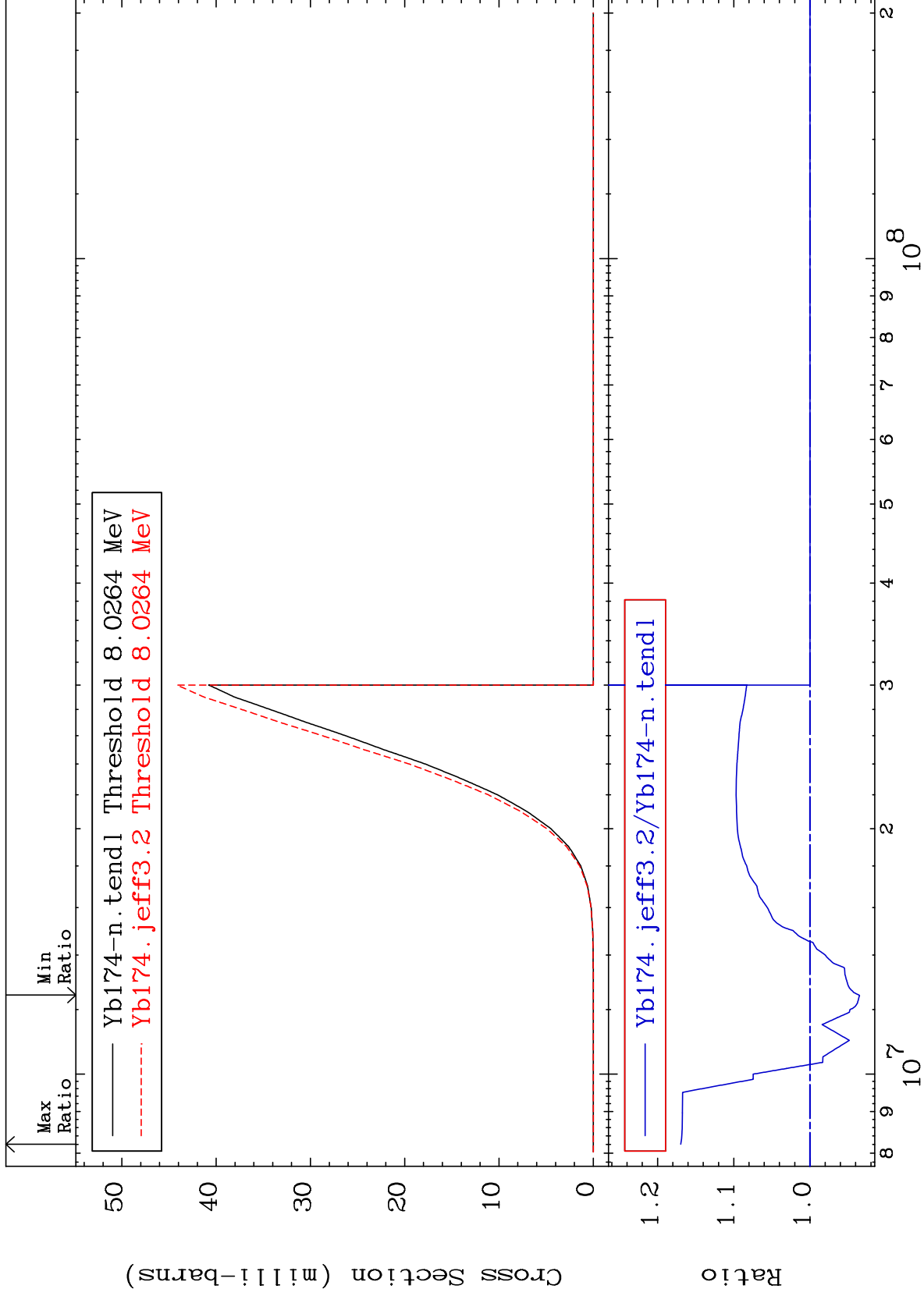
Incident Energy (eV)

⁷⁰Yb-174

MAT 7043

(n,n') p
Cross Section

⁷⁰Yb-174
-6.507 To 16.95 %

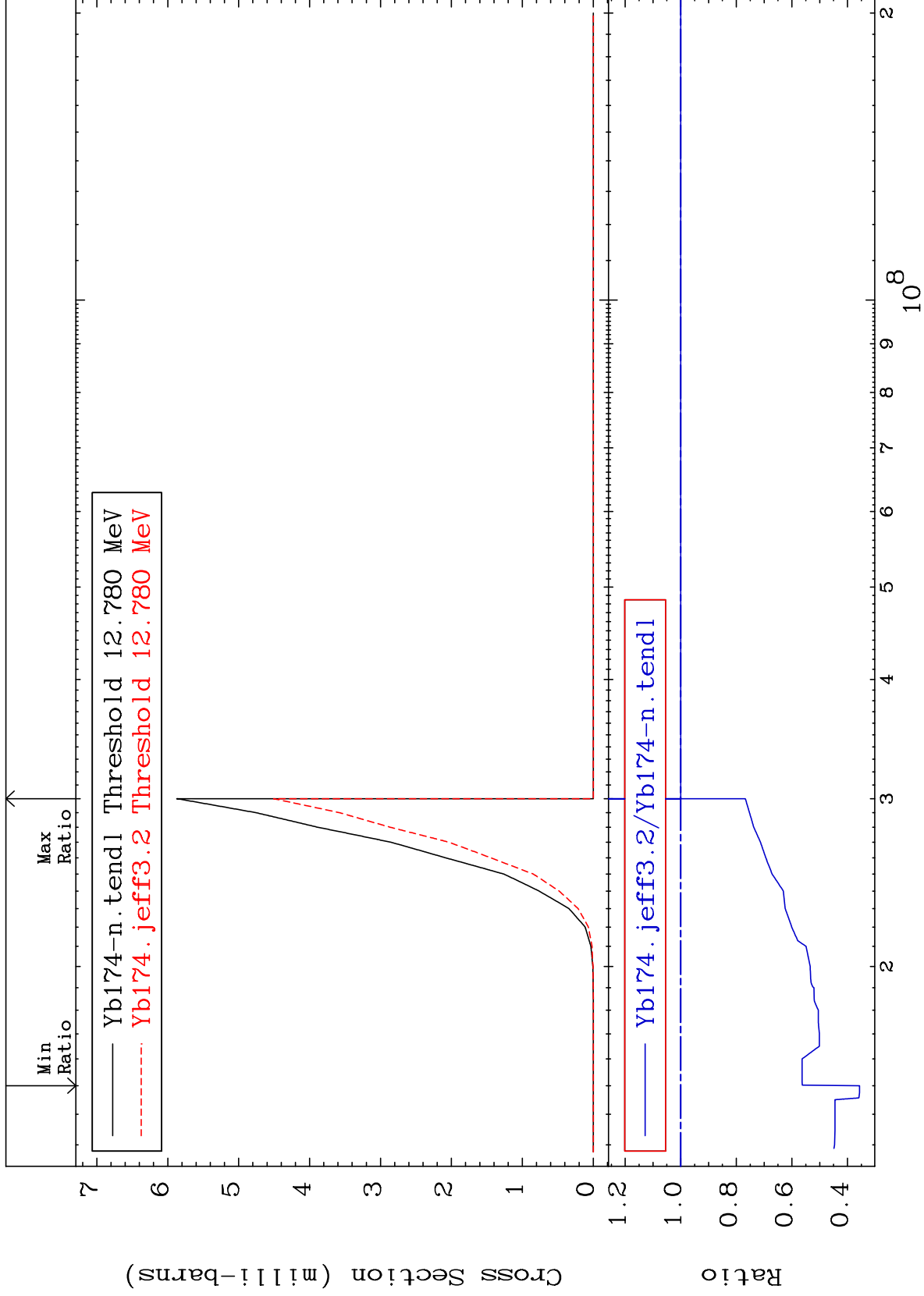


⁷⁰Yb-174

MAT 7043

(n, n') d
Cross Section

⁷⁰Yb-174
-64.35 To 0.000 %



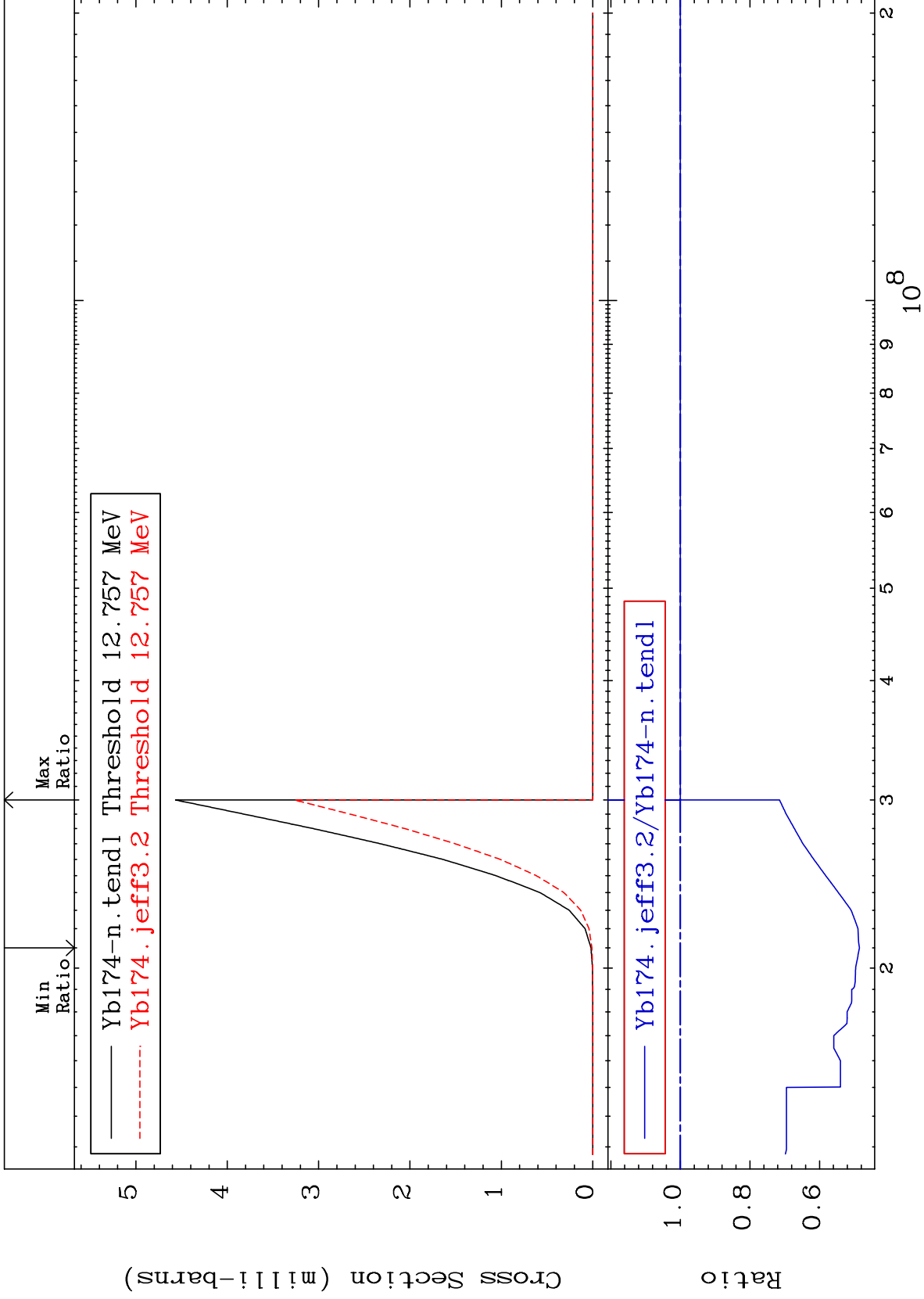
MAT 7043

(n, n') t

⁷⁰Yb-174

Cross Section

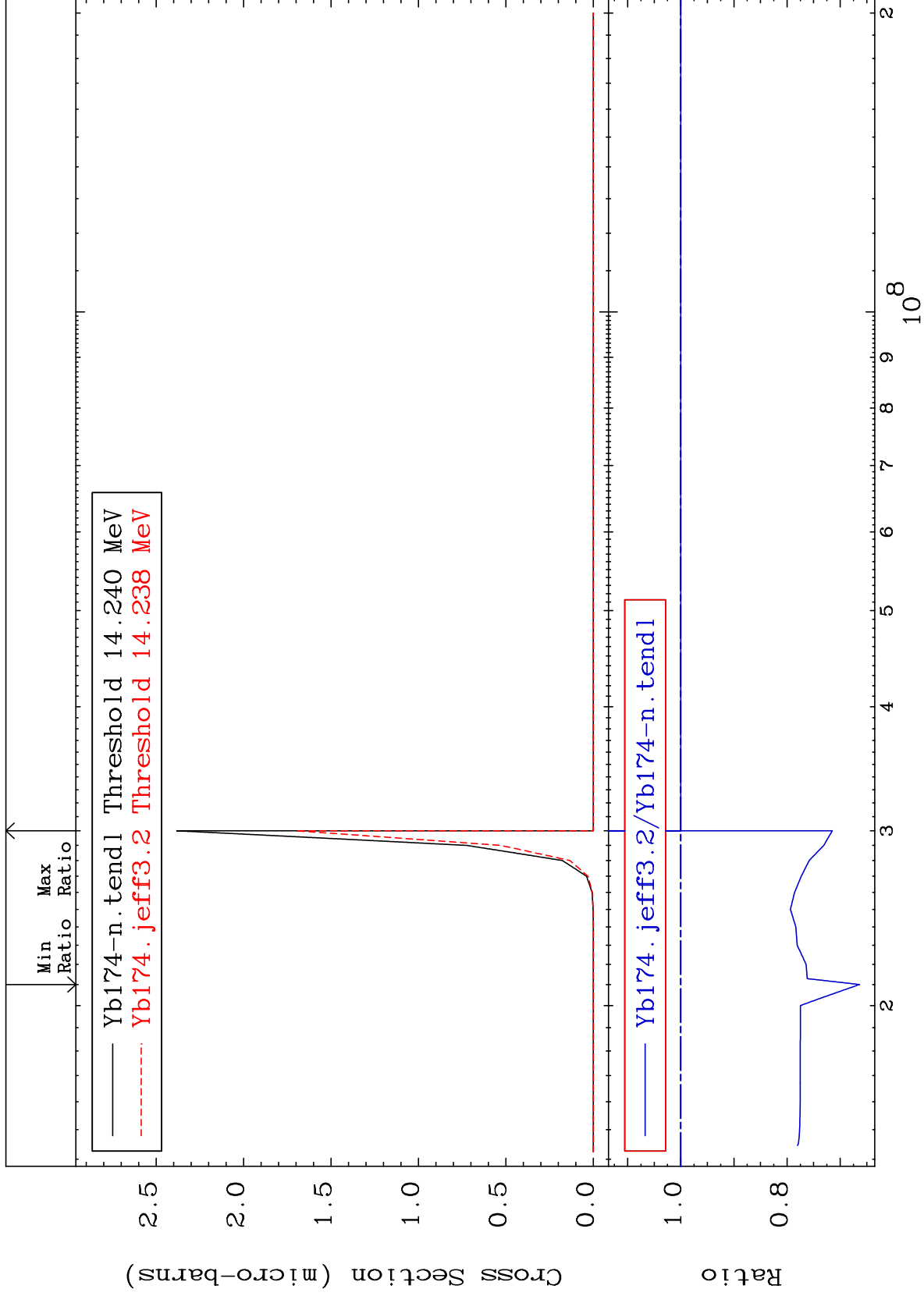
-51.48 To 0.000 %



MAT 7043

(n, n') He-3
Cross Section

⁷⁰Yb-174
-33.64 To 0.000 %



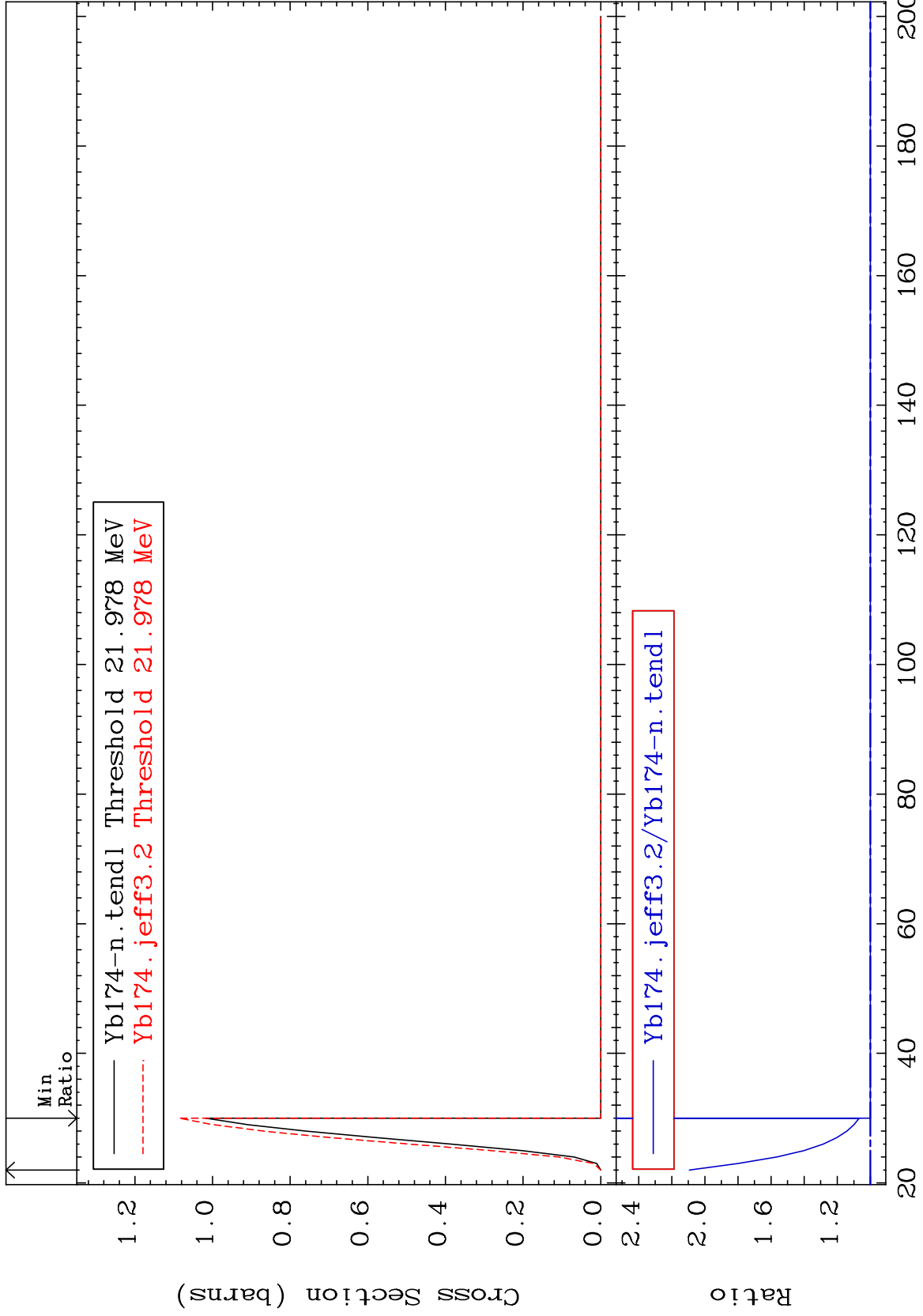
MAT 7043

(n,4n)

⁷⁰Yb-174

Cross Section

0.000 To 109.4 %



Incident Energy (MeV)

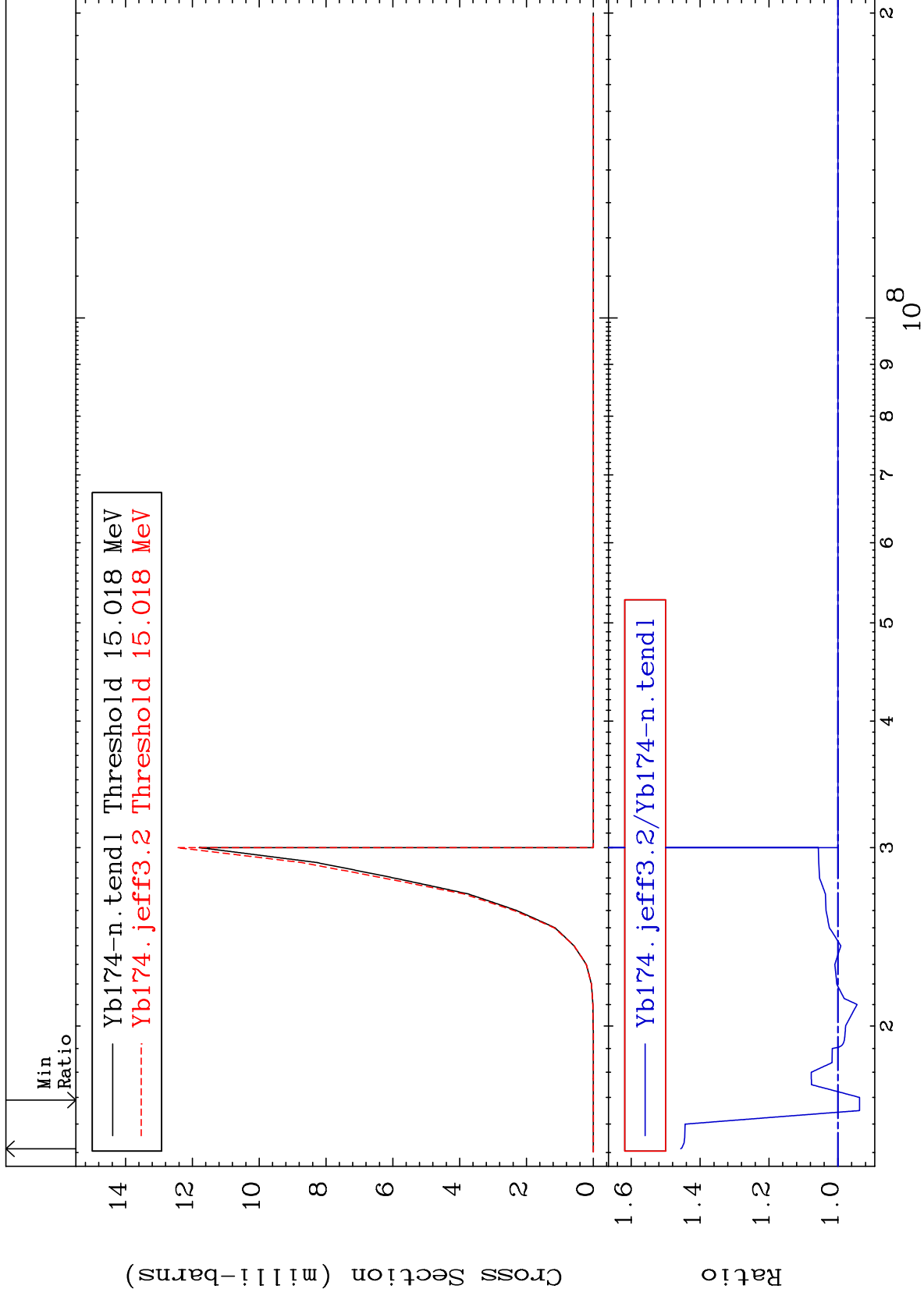
⁷⁰Yb-174

15

MAT 7043

(n,2n) p
Cross Section

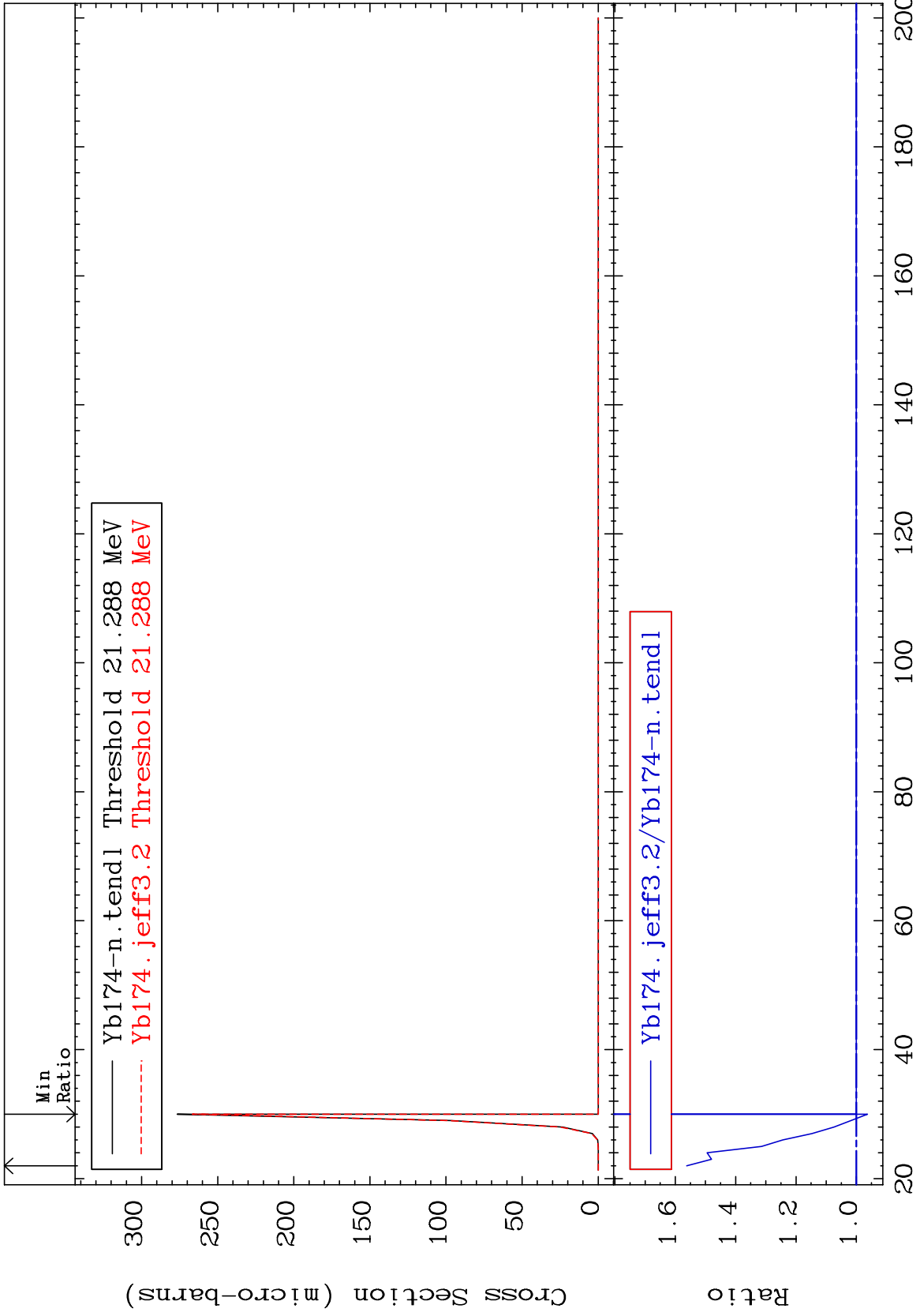
⁷⁰Yb-174
-6.275 To 45.63 %



MAT 7043

(n,3n) p
Cross Section

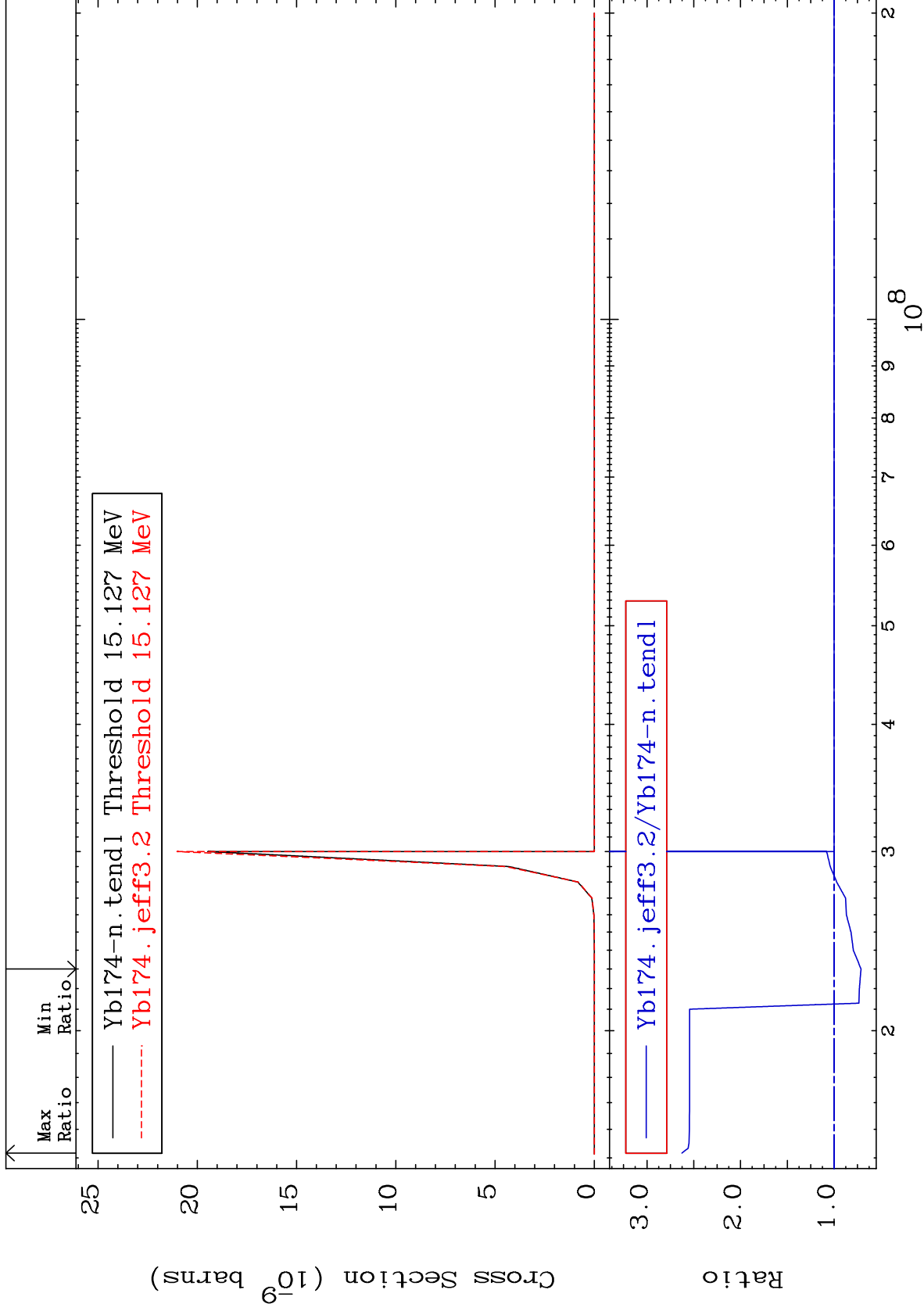
⁷⁰Yb-174
-3.671 To 56.22 %



MAT 7043

(n,2n) p
Cross Section

⁷⁰Yb-174
-28.72 To 162.6 %



18

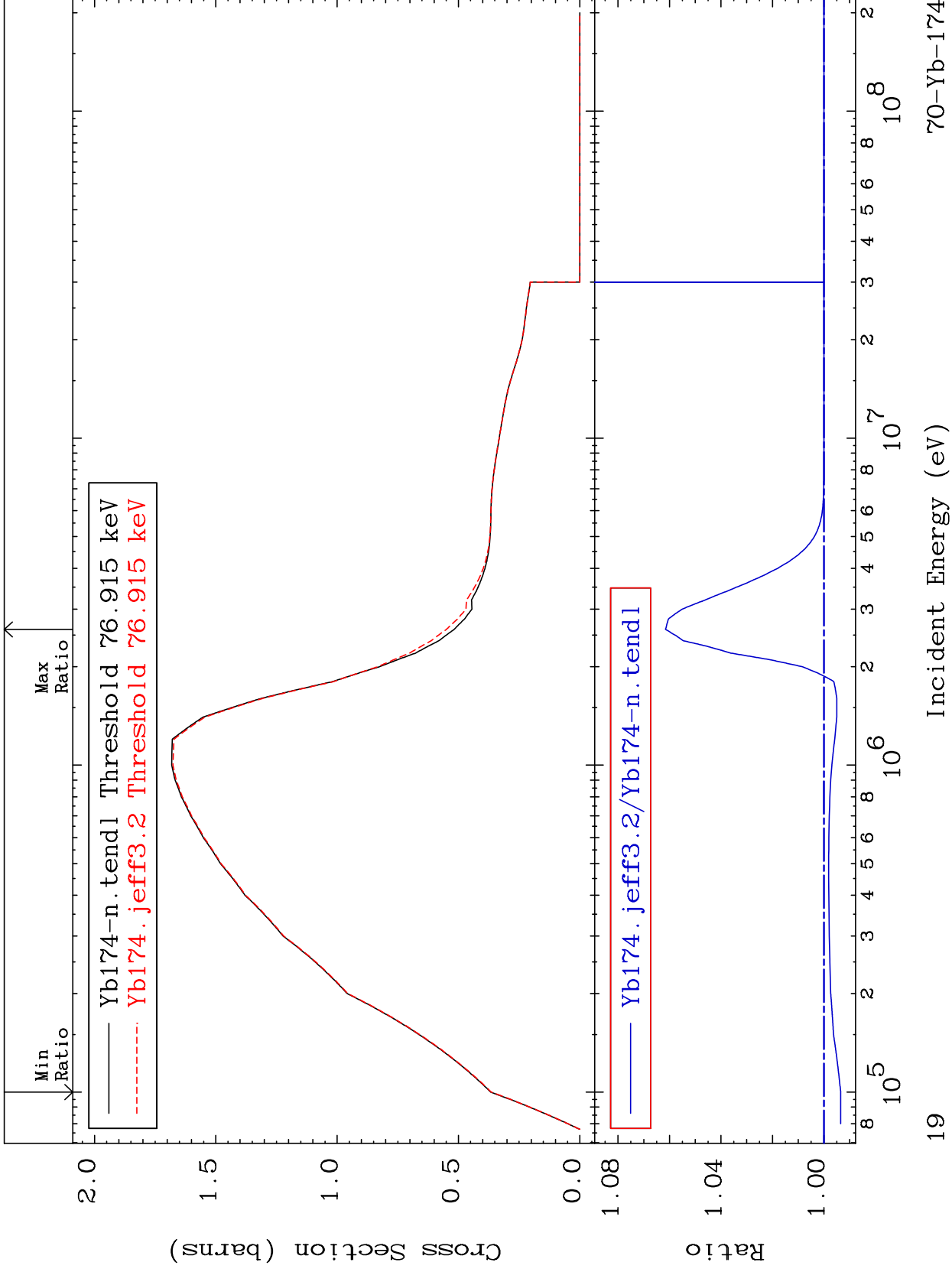
Incident Energy (eV)

⁷⁰Yb-174

MAT 7043

76.47 keV (n,n') Level
Cross Section

70-Yb-174
-0.650 To 6.155 %

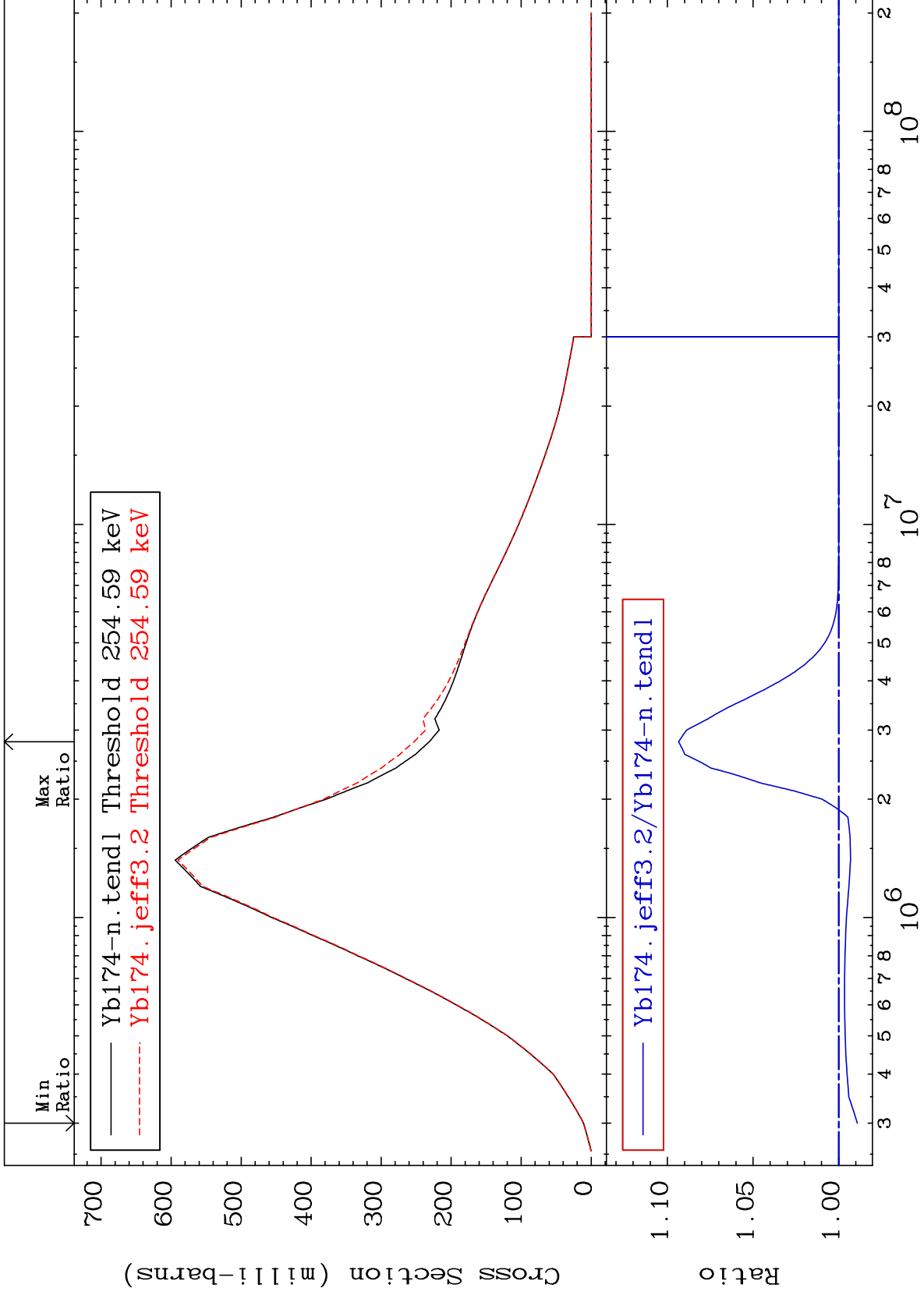


19

MAT 7043

253.1 keV (n,n') Level
Cross Section

70-Yb-174
-1.083 To 9.344 %



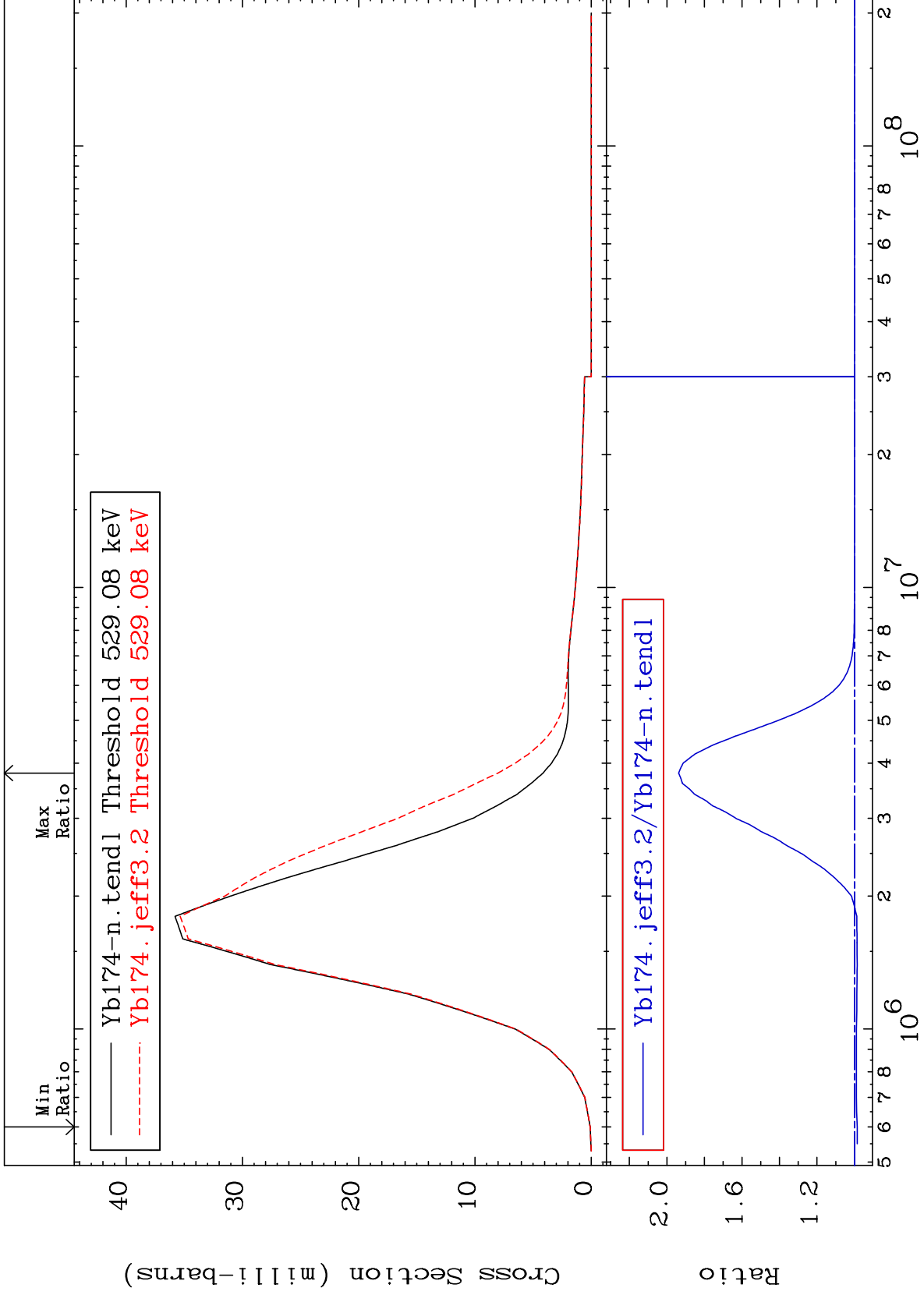
20

70-Yb-174

MAT 7043

526.0 keV (n,n') Level
Cross Section

⁷⁰Yb-174
-1.476 To 93.75 %



21

⁷⁰Yb-174

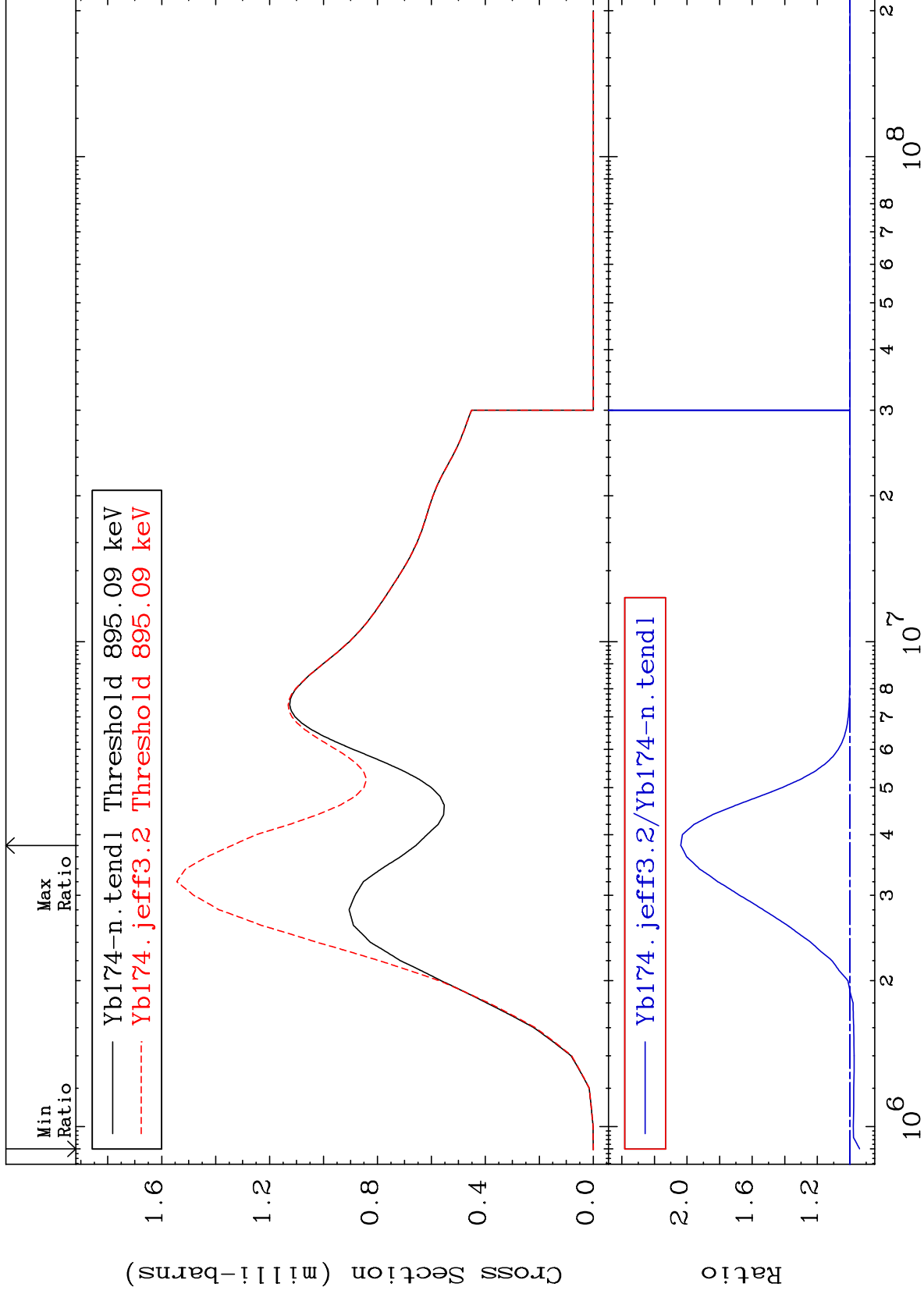
MAT 7043

889.9 keV (n,n') Level

⁷⁰Yb-174

Cross Section

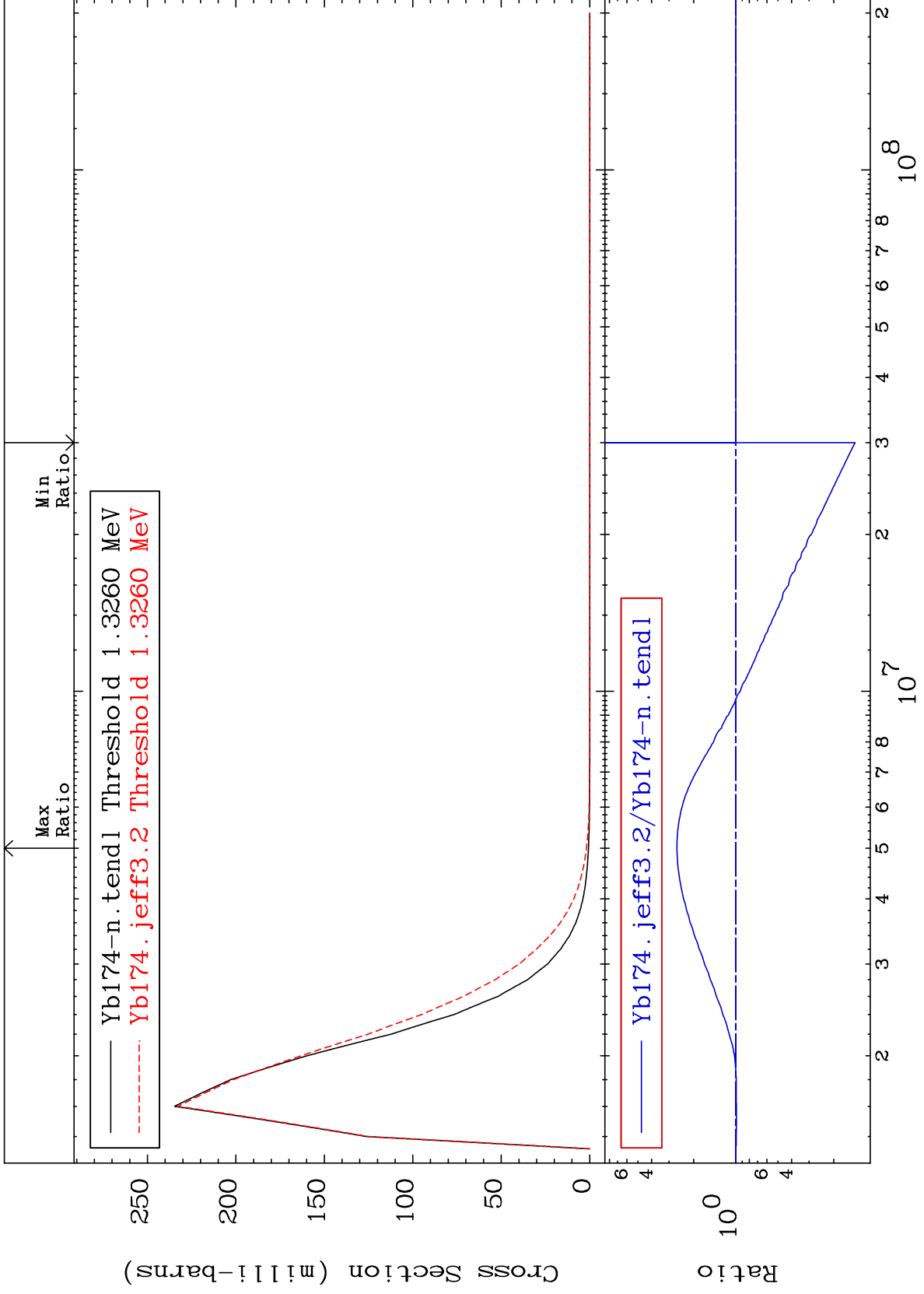
-5.897 To 103.8 %



MAT 7043

1.318 MeV (n,n') Level
Cross Section

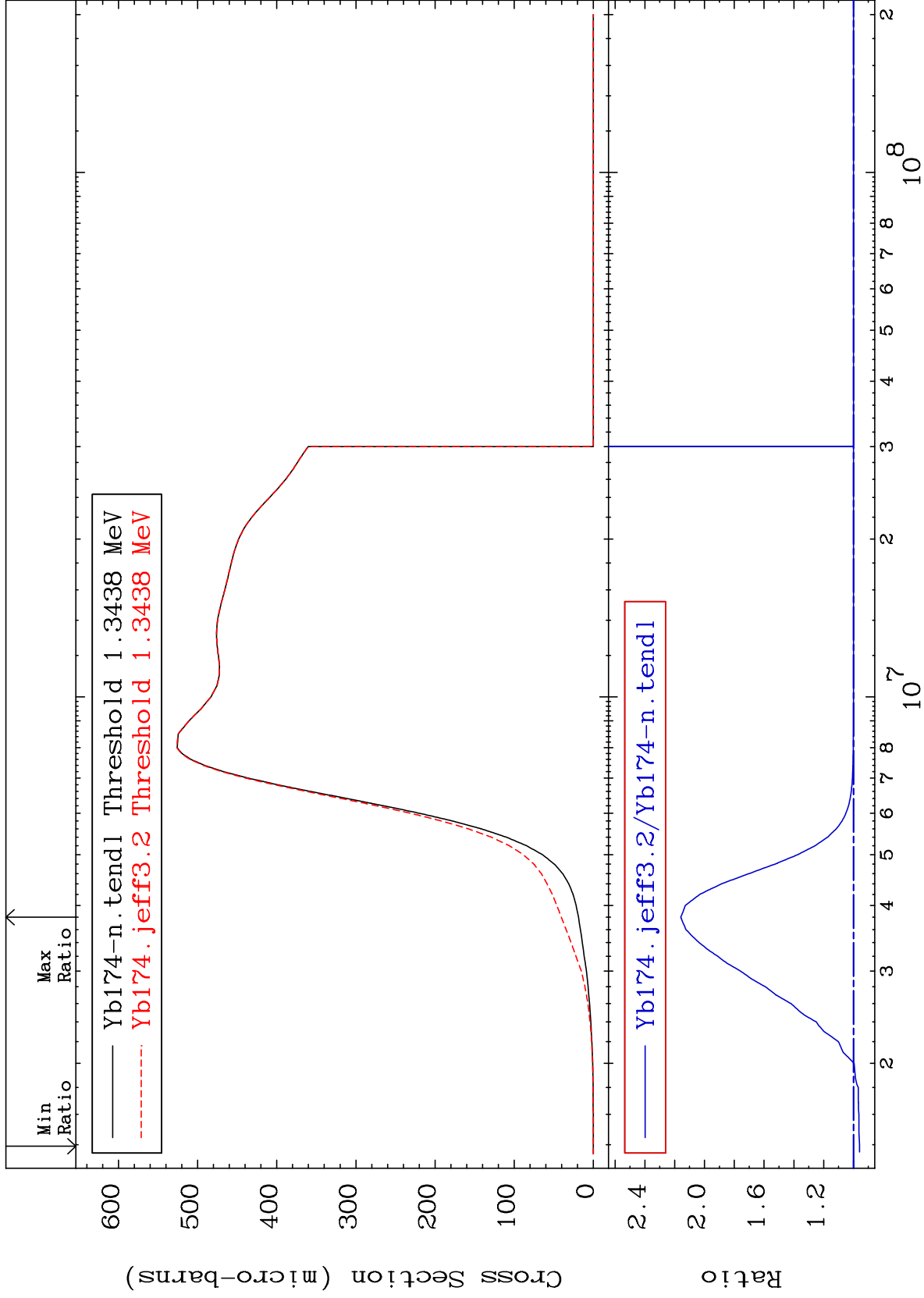
70-Yb-174
-85.94 To 163.4 %



MAT 7043

1.336 MeV (n,n') Level
Cross Section

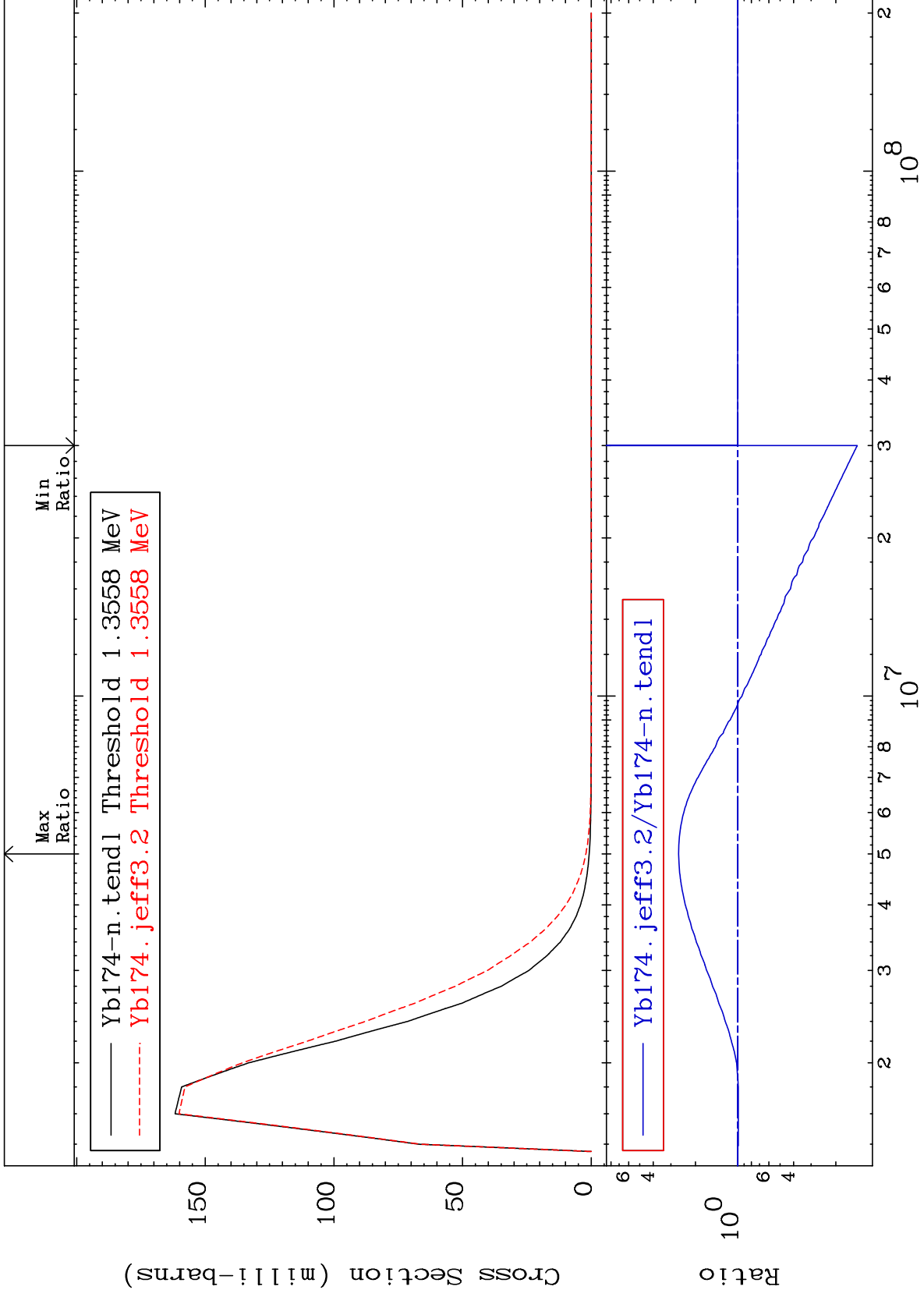
70-Yb-174
-4.081 To 115.9 %



MAT 7043

1.348 MeV (n,n') Level
Cross Section

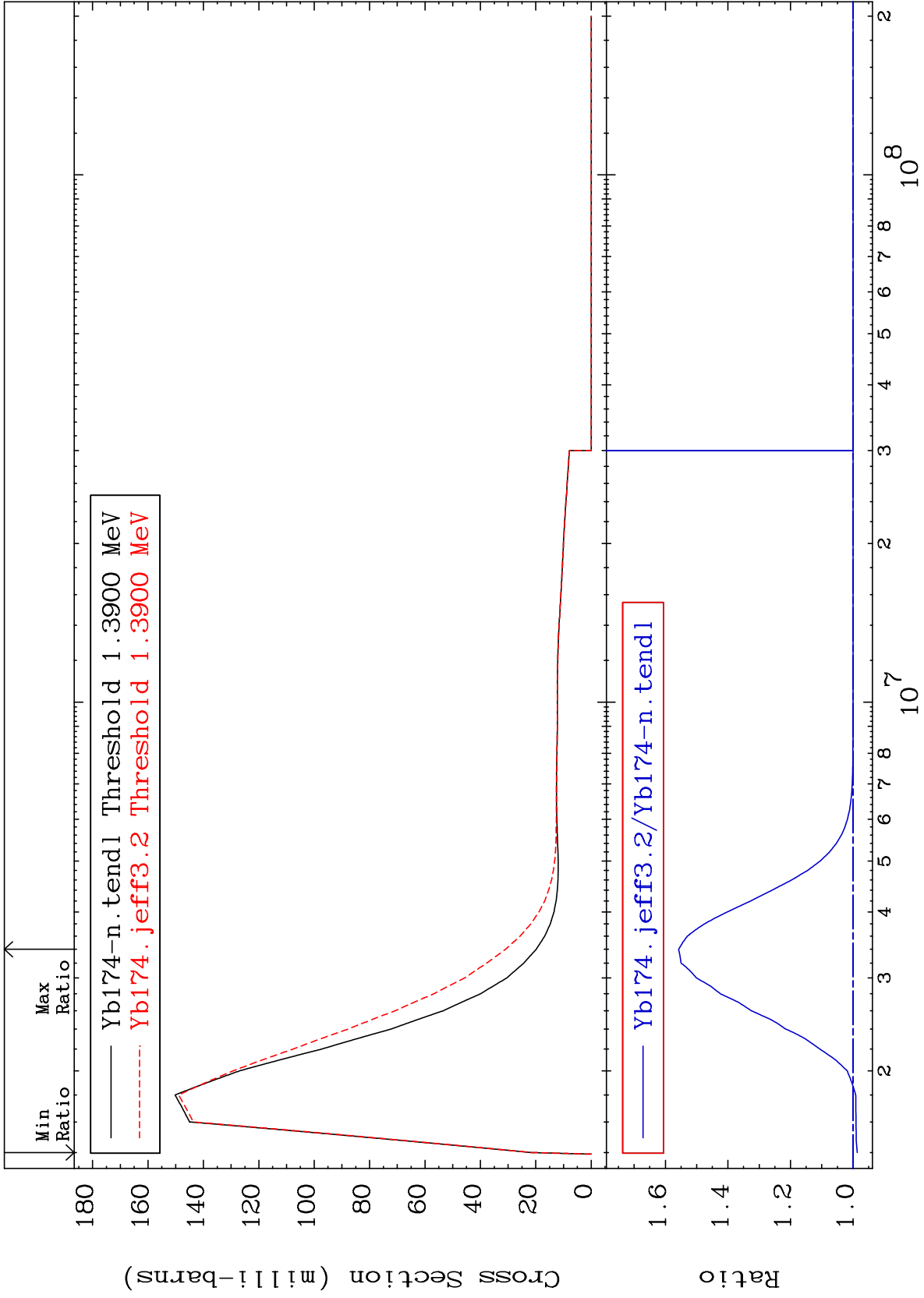
⁷⁰Yb-174
-85.93 To 163.9 %



MAT 7043

1.382 MeV (n,n') Level
Cross Section

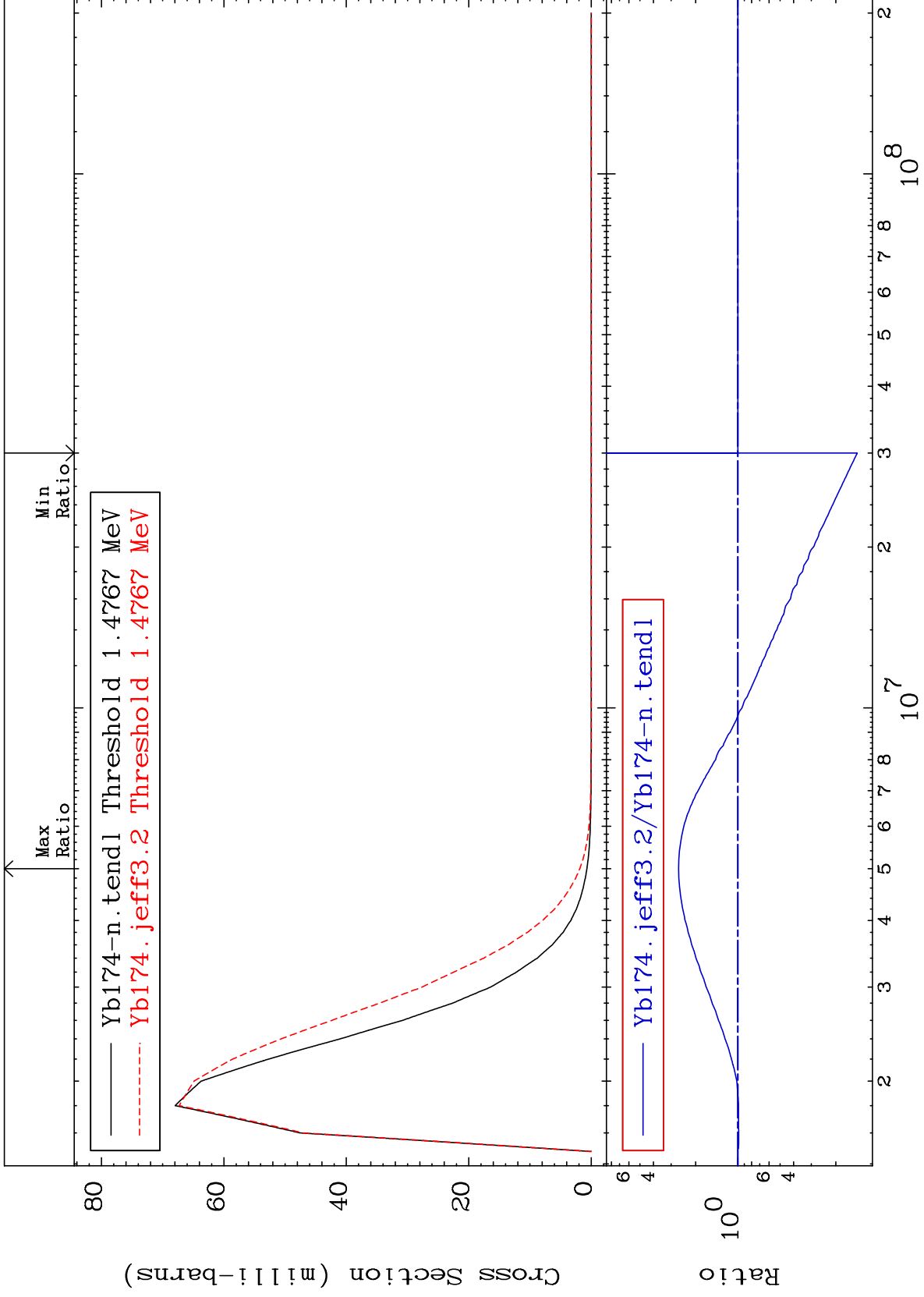
70-Yb-174
-1.344 To 55.77 %



MAT 7043

1.468 MeV (n,n') Level
Cross Section

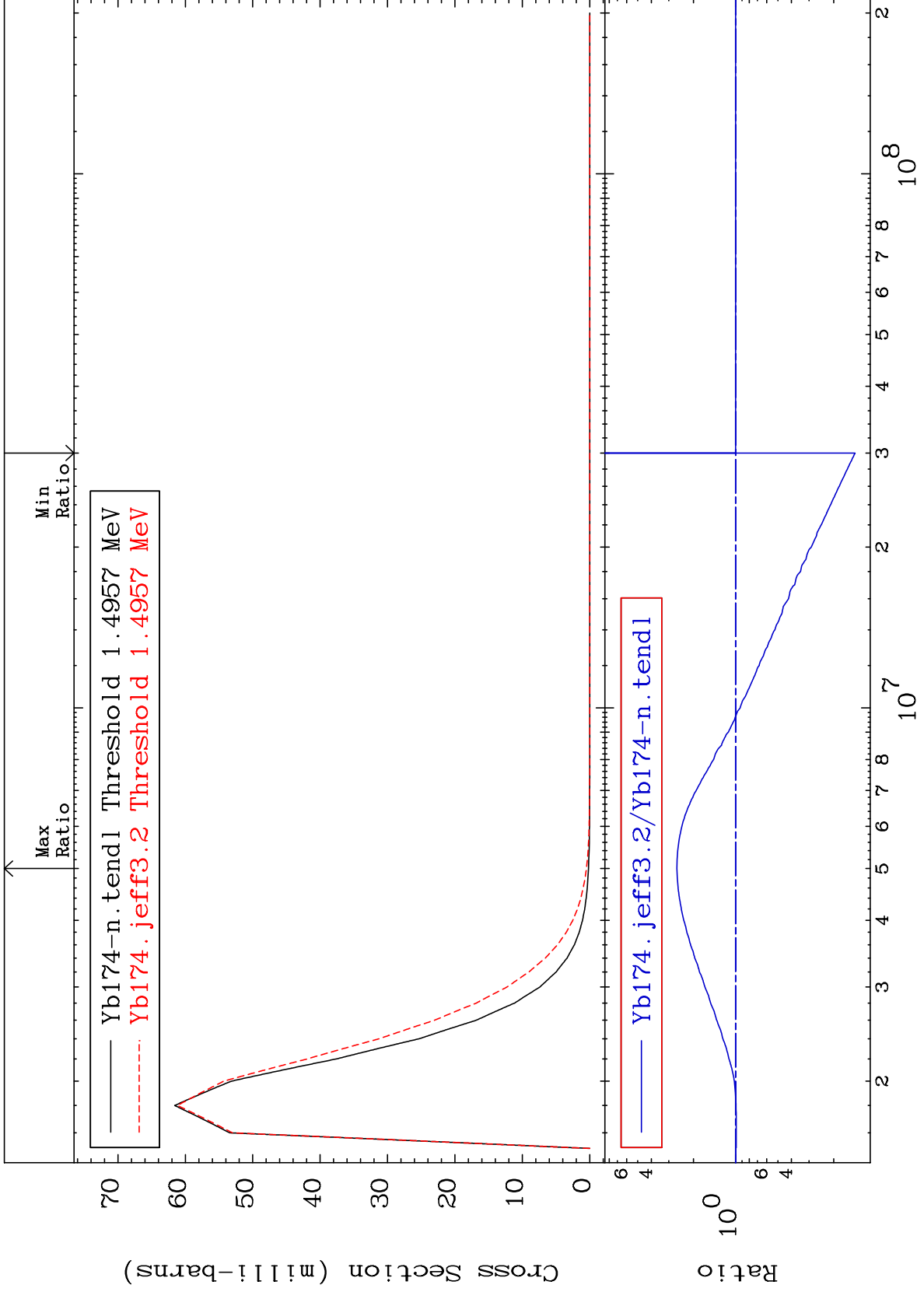
⁷⁰Yb-174
-85.92 To 164.8 %



MAT 7043

1.487 MeV (n,n') Level
Cross Section

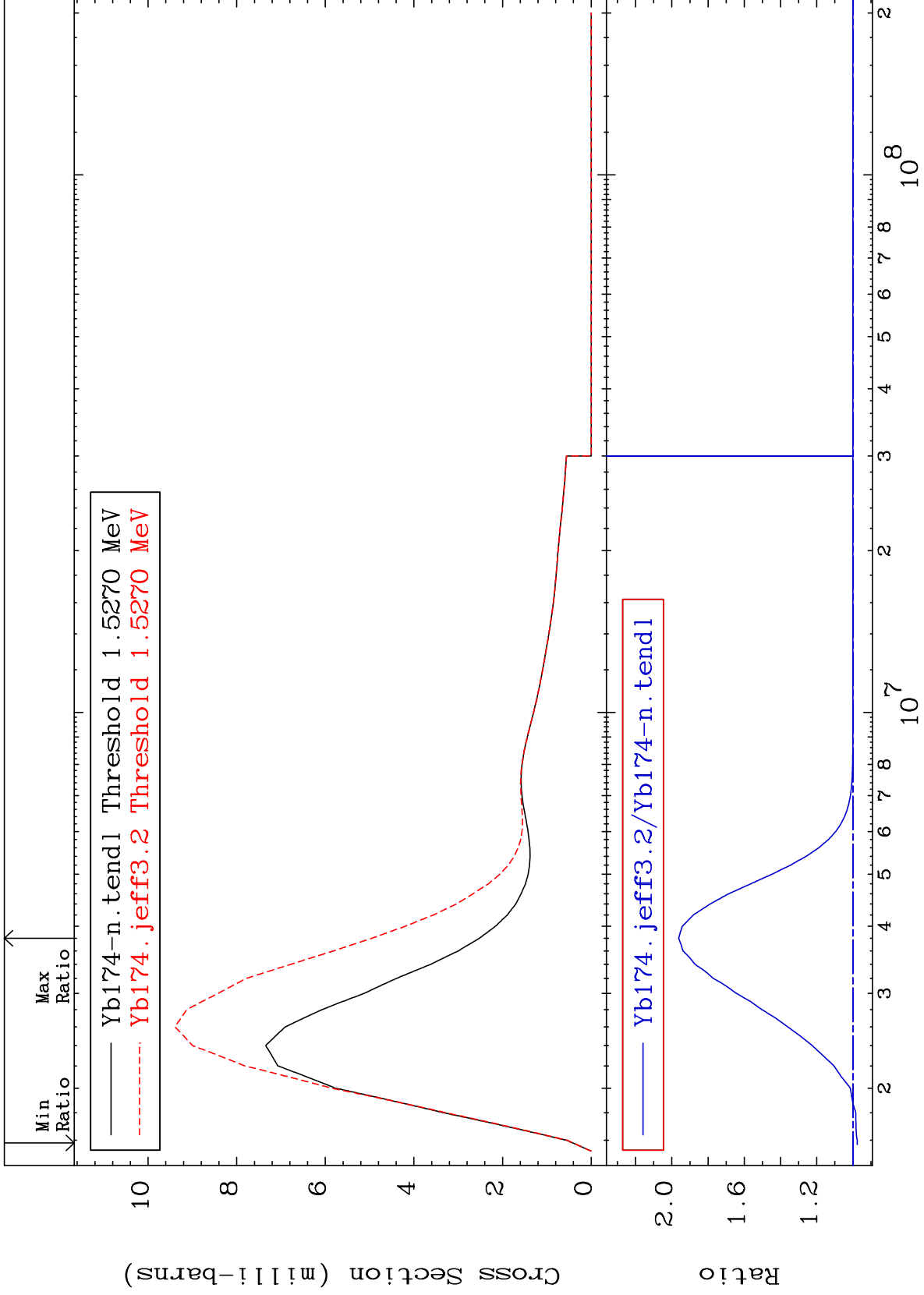
70-Yb-174
-85.95 To 162.6 %



MAT 7043

1.518 MeV (n,n') Level
Cross Section

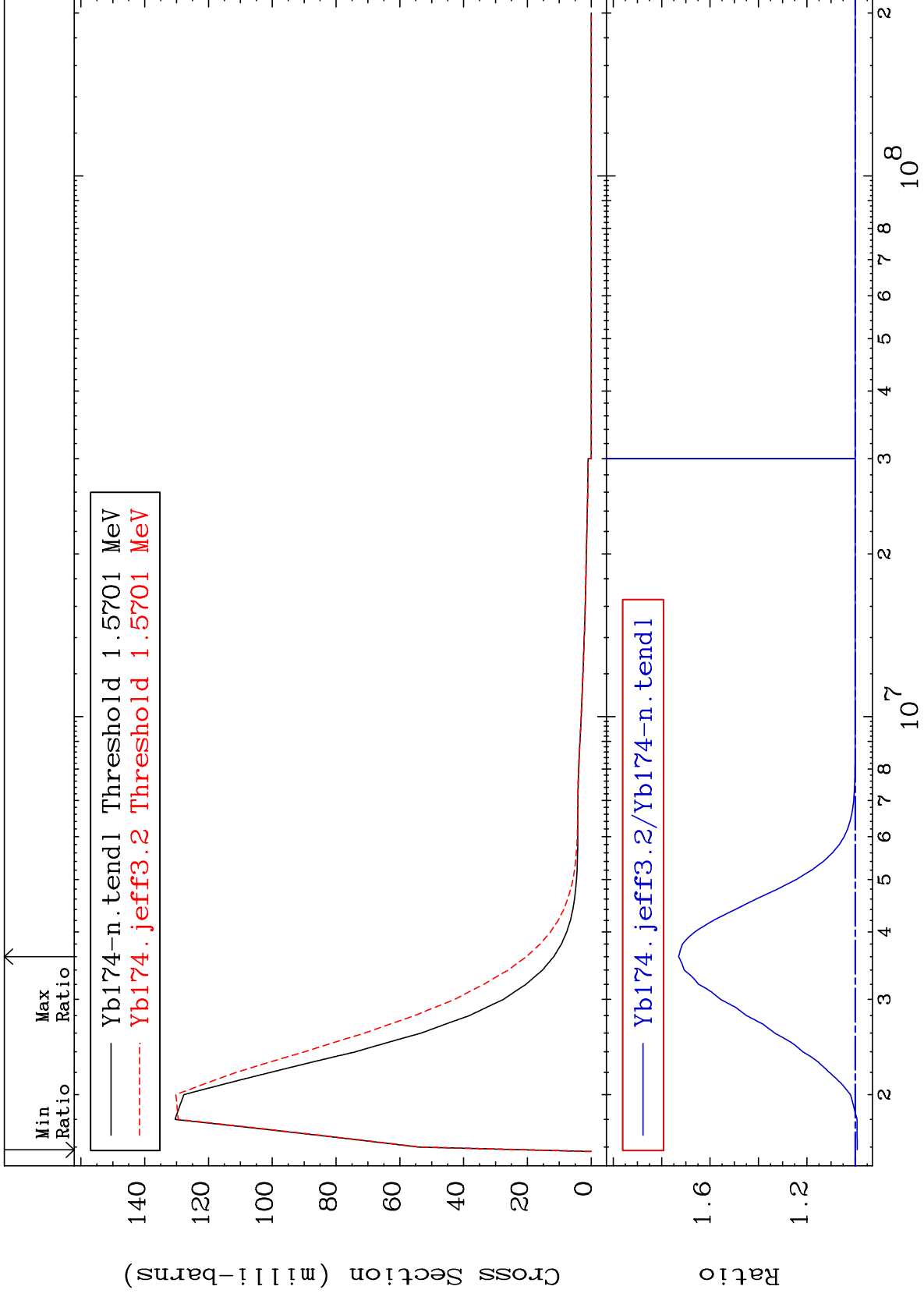
70-Yb-174
-2.374 To 96.24 %



MAT 7043

1.561 MeV (n,n') Level
Cross Section

⁷⁰Yb-174
-0.835 To 72.98 %



30

Incident Energy (eV)

⁷⁰Yb-174

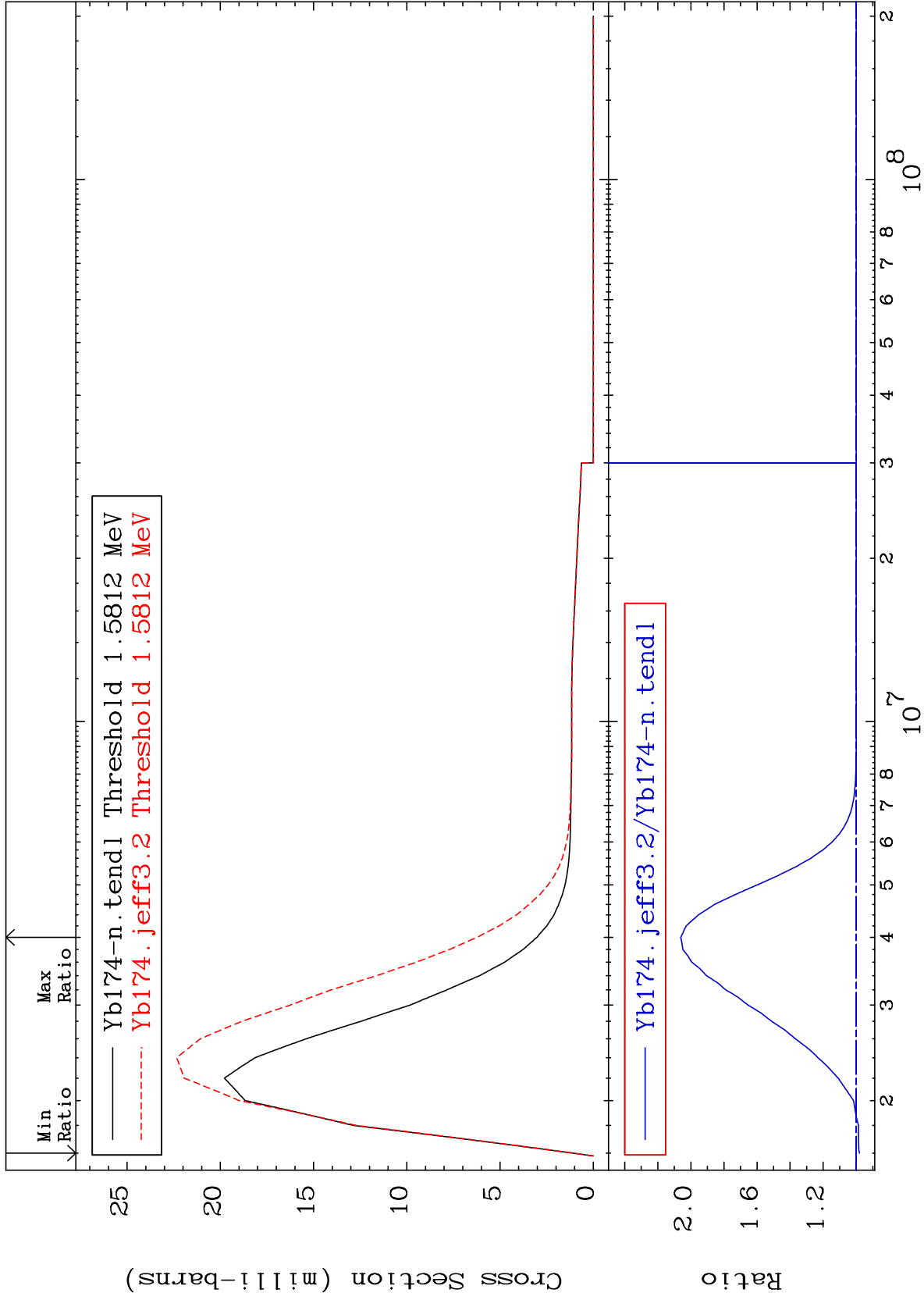
MAT 7043

1.572 MeV (n,n') Level

⁷⁰Yb-174

Cross Section

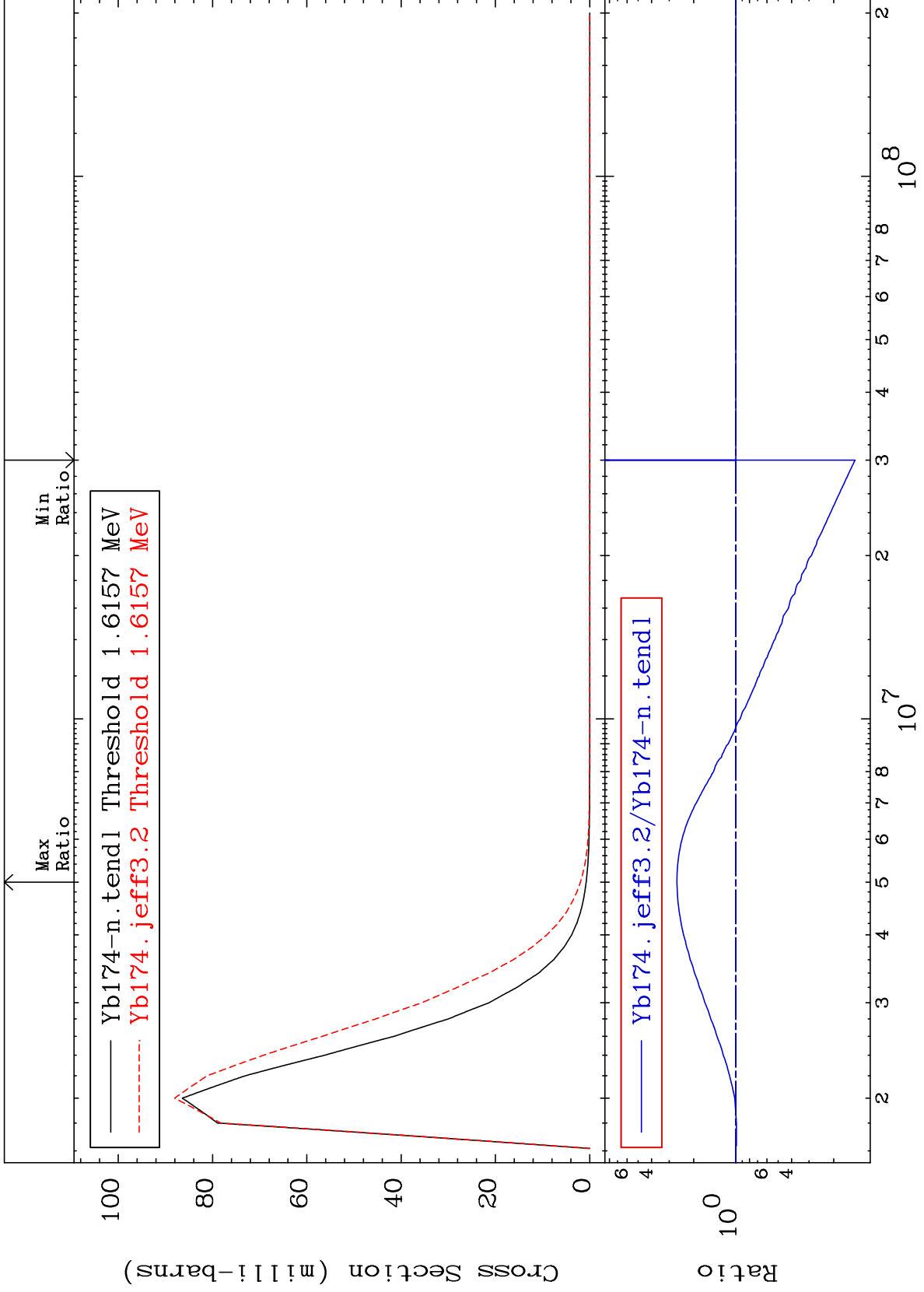
-1.973 To 106.1 %



MAT 7043

1.606 MeV (n,n') Level
Cross Section

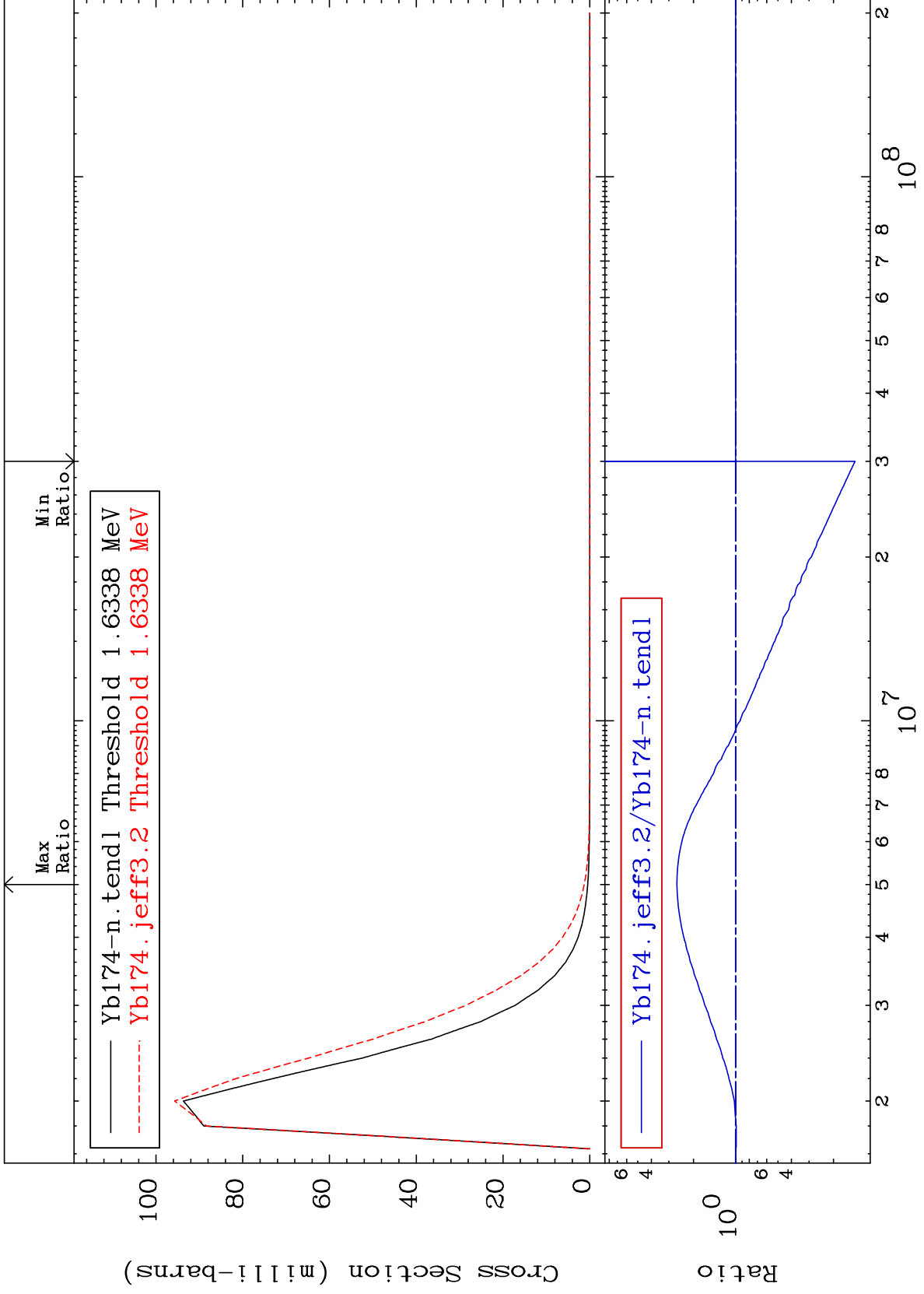
70-Yb-174
-85.93 To 163.9 %



MAT 7043

1.624 MeV (n,n') Level
Cross Section

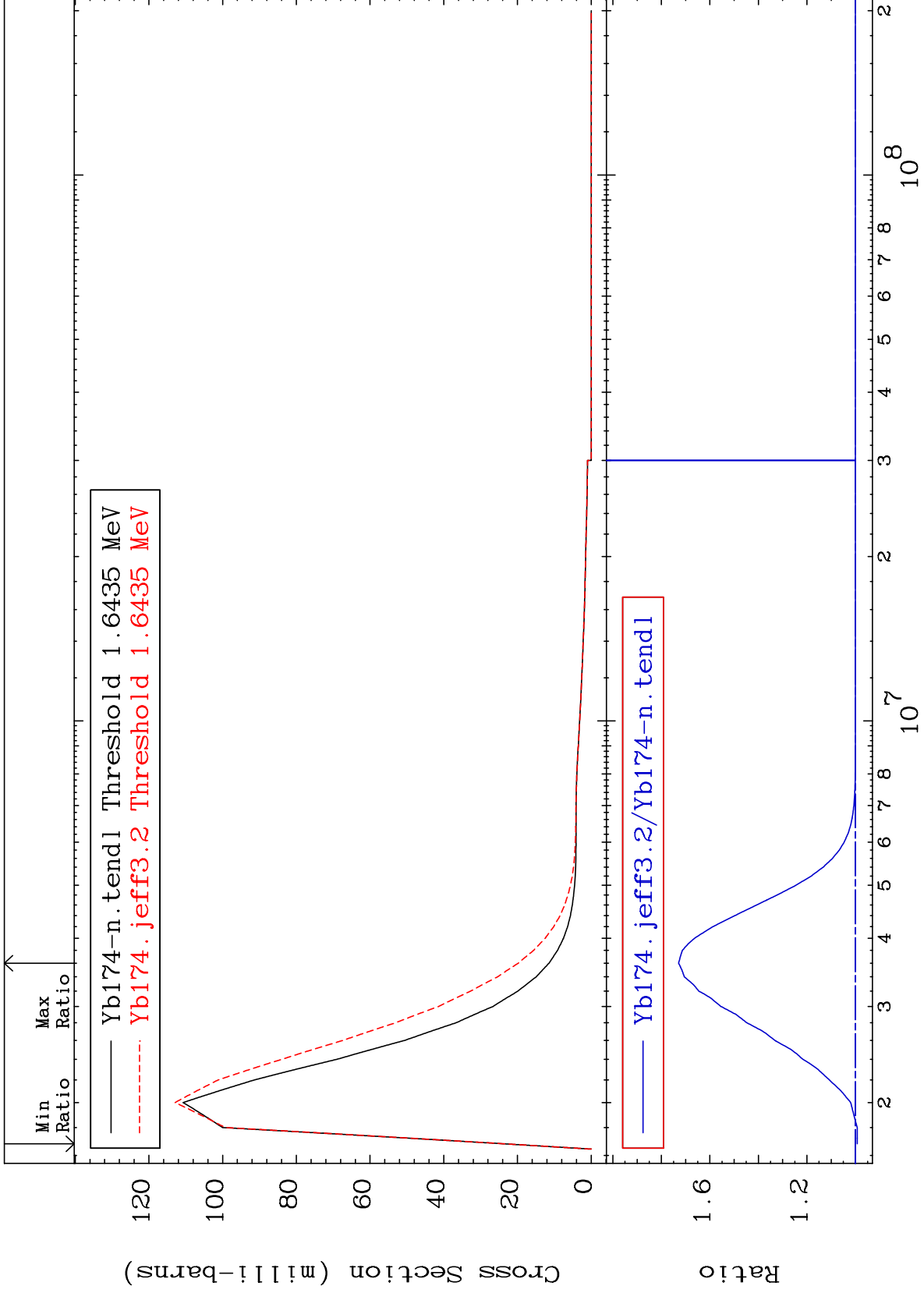
70-Yb-174
-85.95 To 162.7 %



MAT 7043

1.634 MeV (n,n') Level
Cross Section

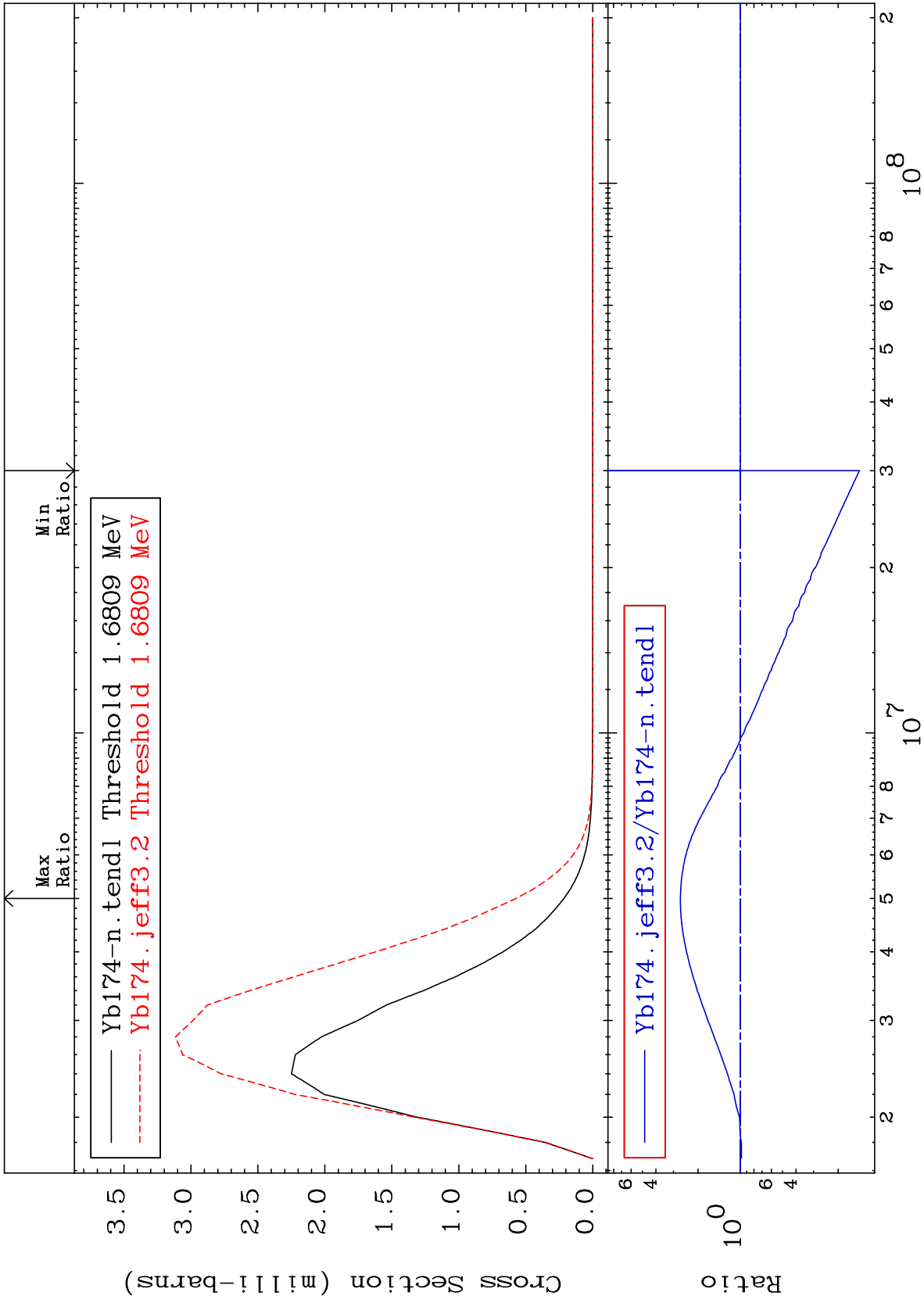
⁷⁰Yb-174
-0.746 To 72.88 %



MAT 7043

1.671 MeV (n,n') Level
Cross Section

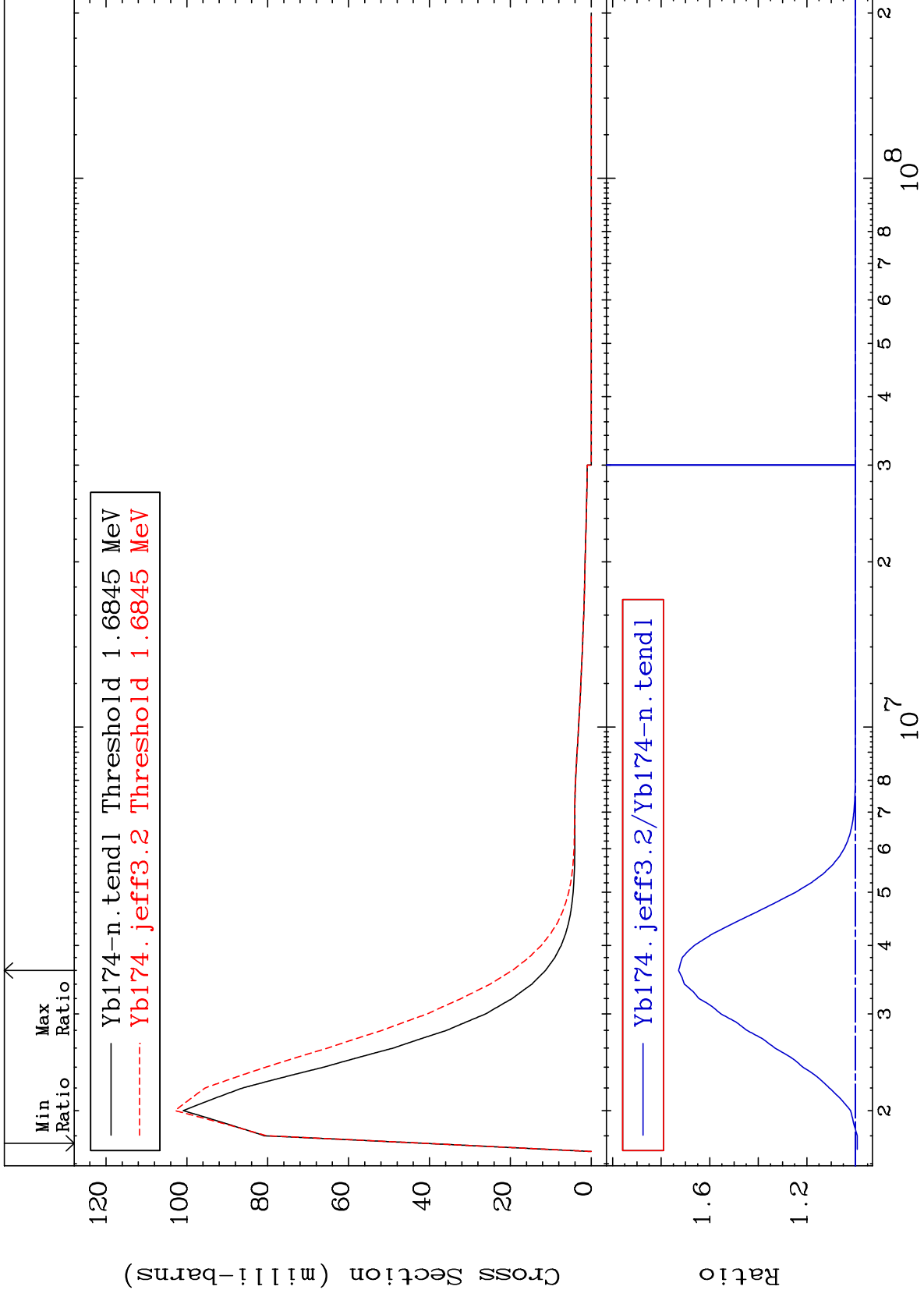
70-Yb-174
-85.88 To 167.5 %



MAT 7043

1.675 MeV (n,n') Level
Cross Section

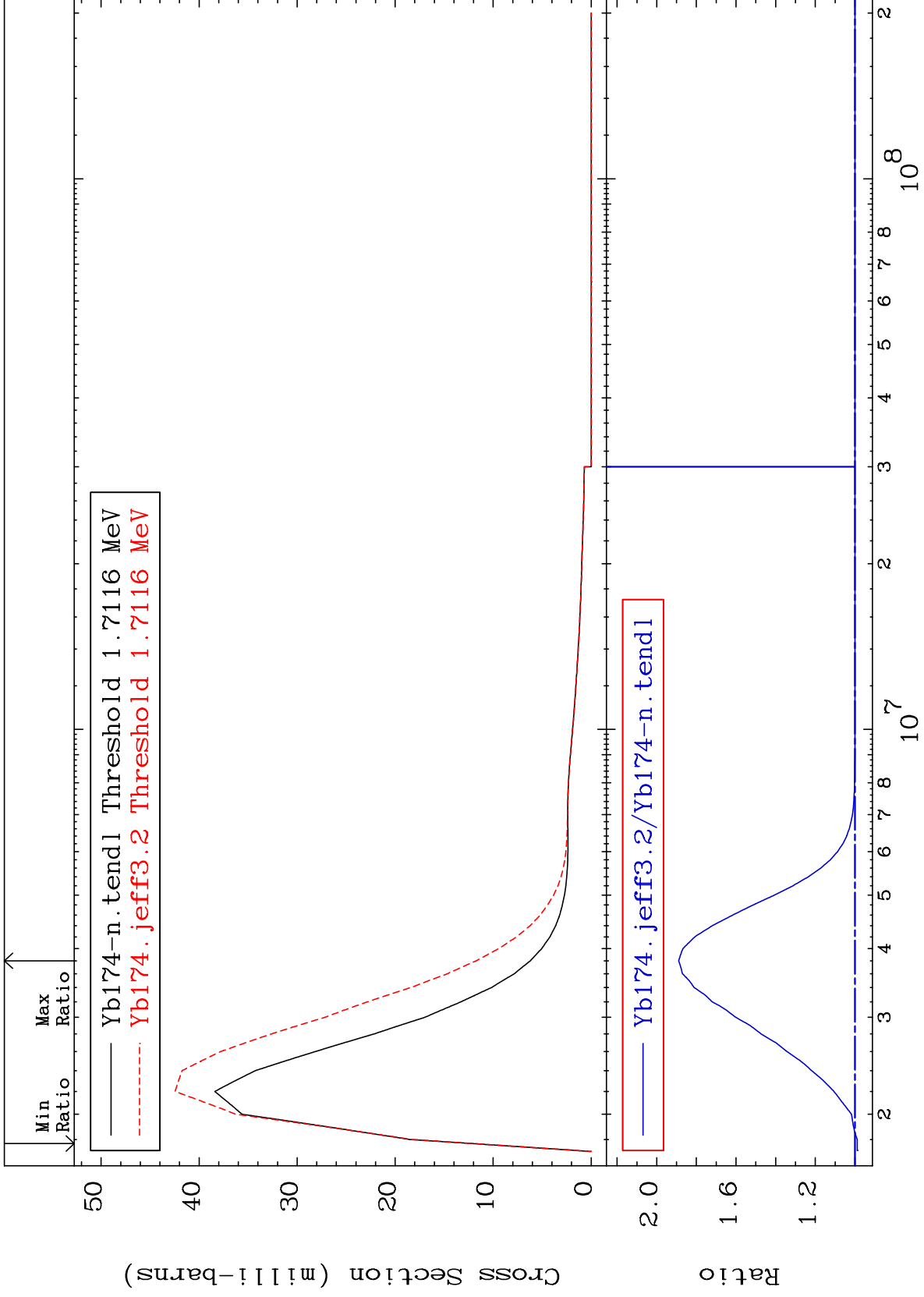
⁷⁰Yb-174
-0.745 To 72.82 %



MAT 7043

1.702 MeV (n,n') Level
Cross Section

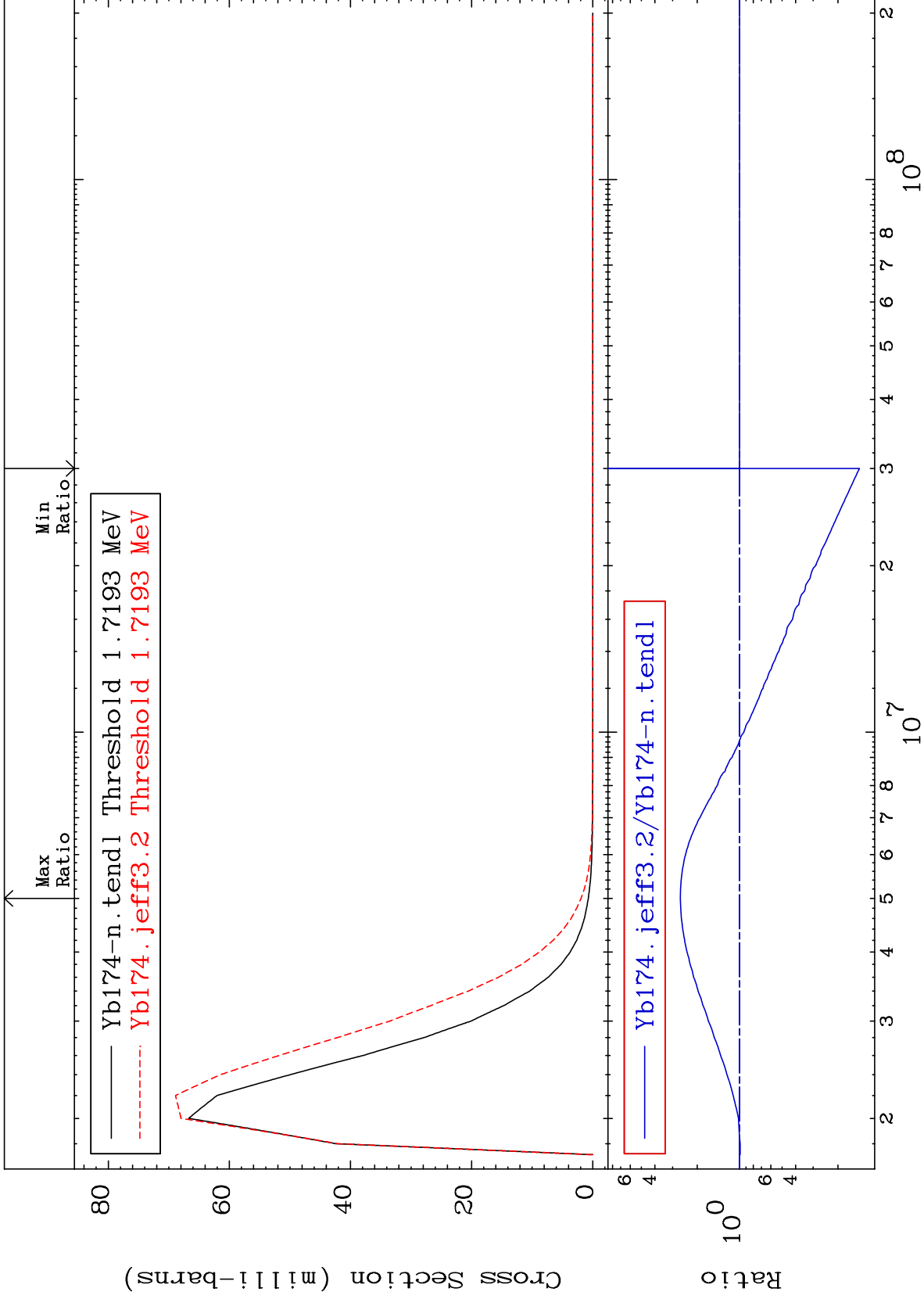
⁷⁰Yb-174
-1.165 To 88.94 %



MAT 7043

1.709 MeV (n,n') Level
Cross Section

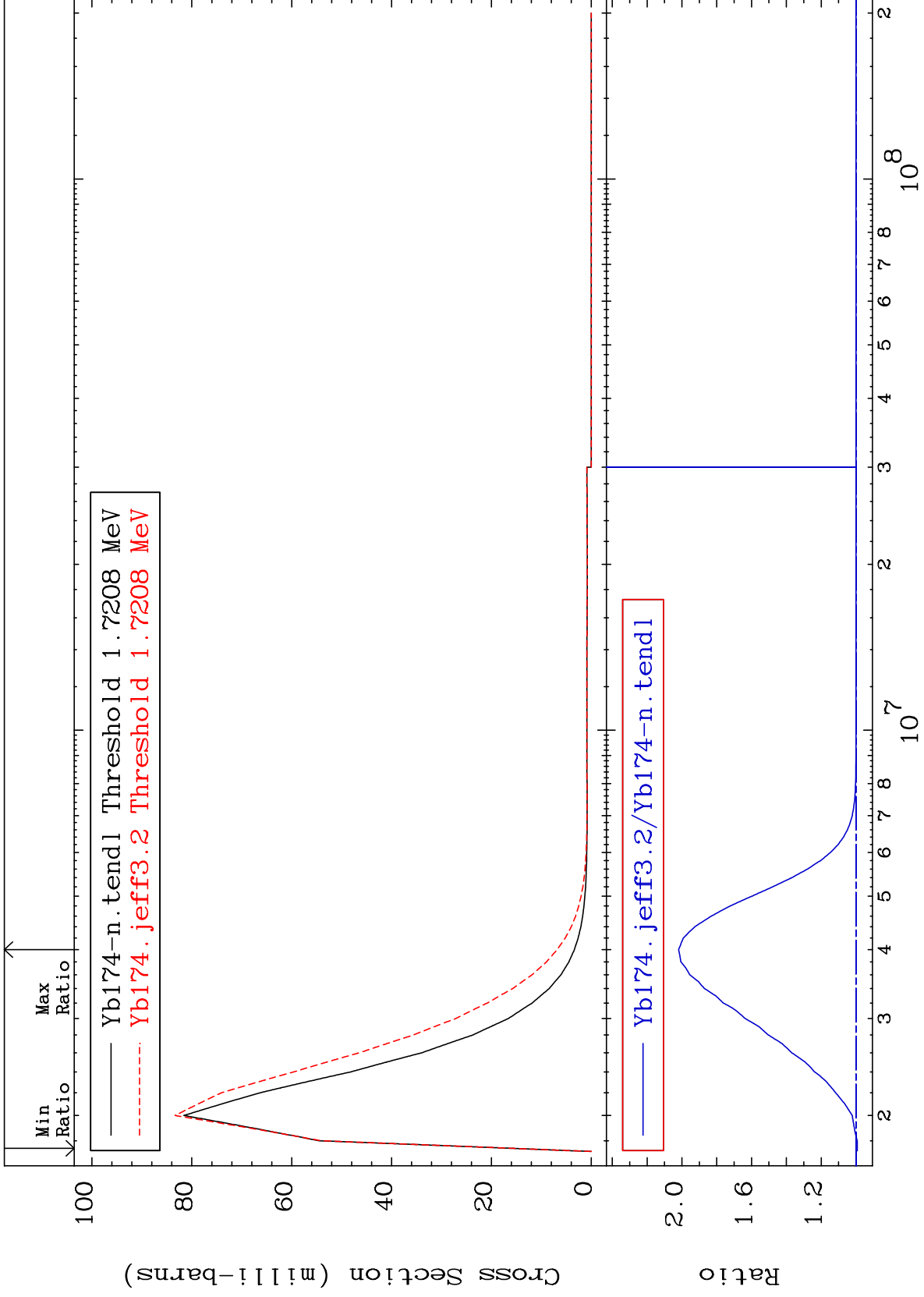
⁷⁰Yb-174
-85.93 To 163.9 %



MAT 7043

1.711 MeV (n,n') Level
Cross Section

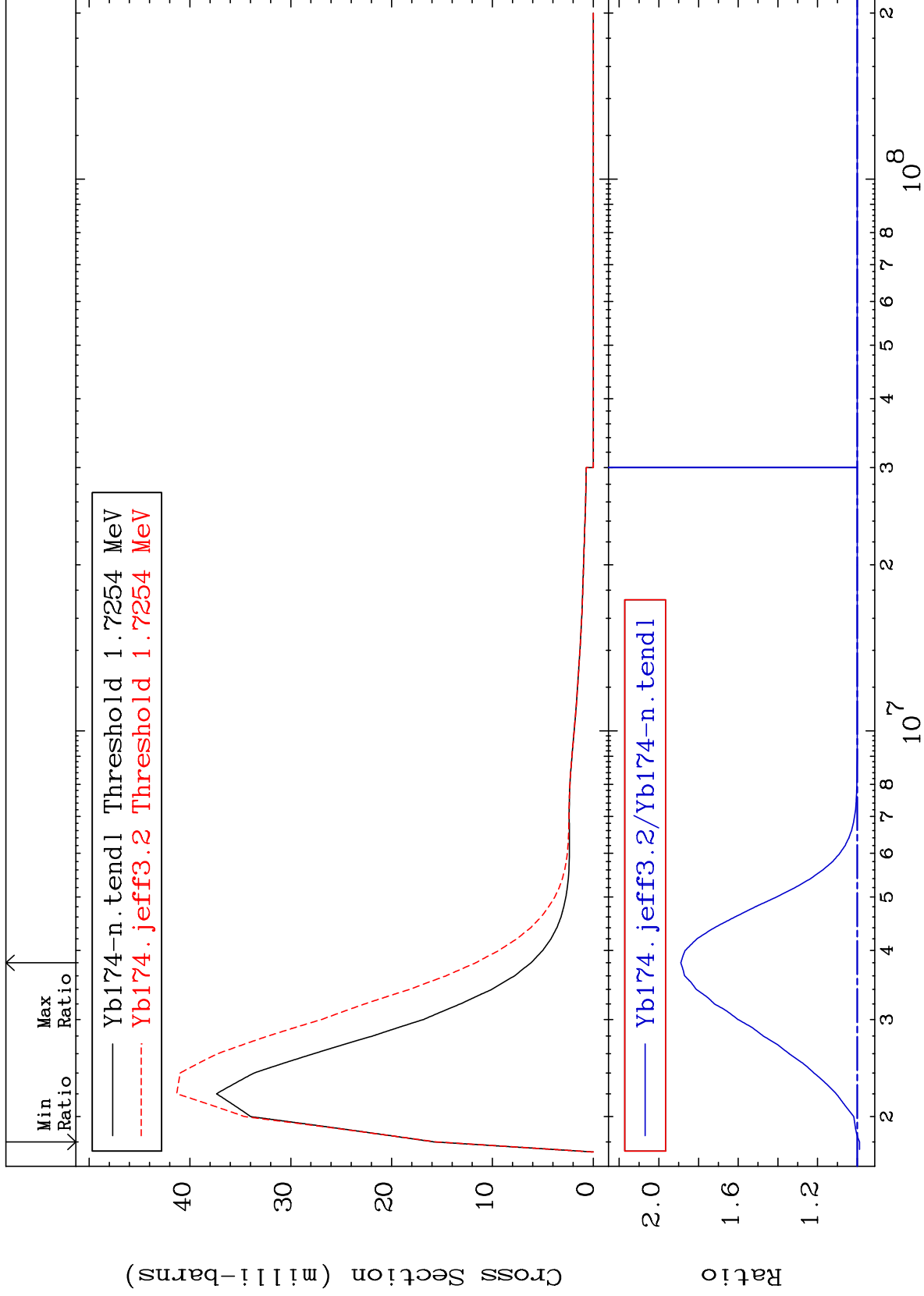
⁷⁰Yb-174
-0.721 To 101.9 %



MAT 7043

1.715 MeV (n,n') Level
Cross Section

⁷⁰Yb-174
-1.177 To 88.95 %



40

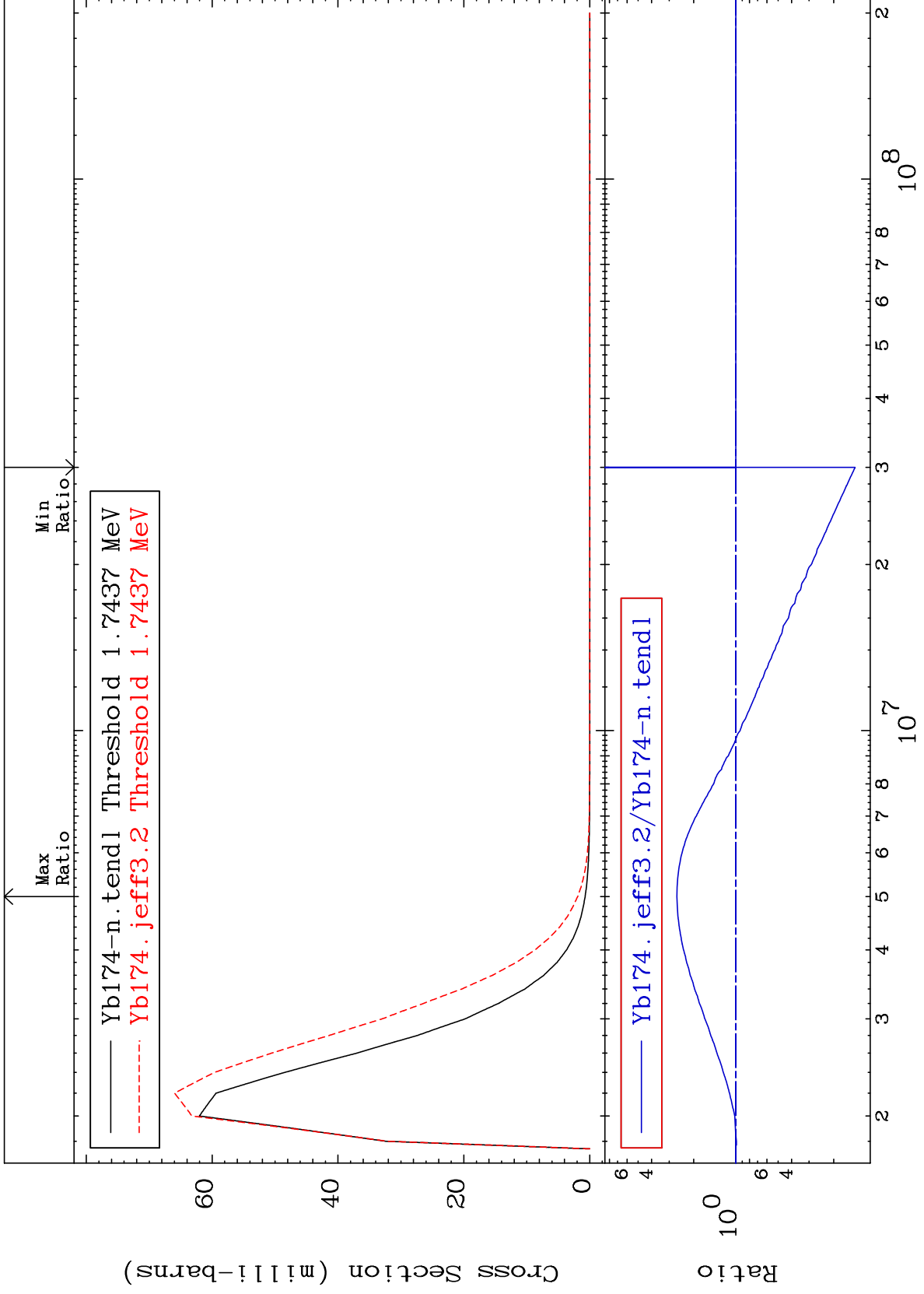
Incident Energy (eV)

⁷⁰Yb-174

MAT 7043

1.734 MeV (n,n') Level
Cross Section

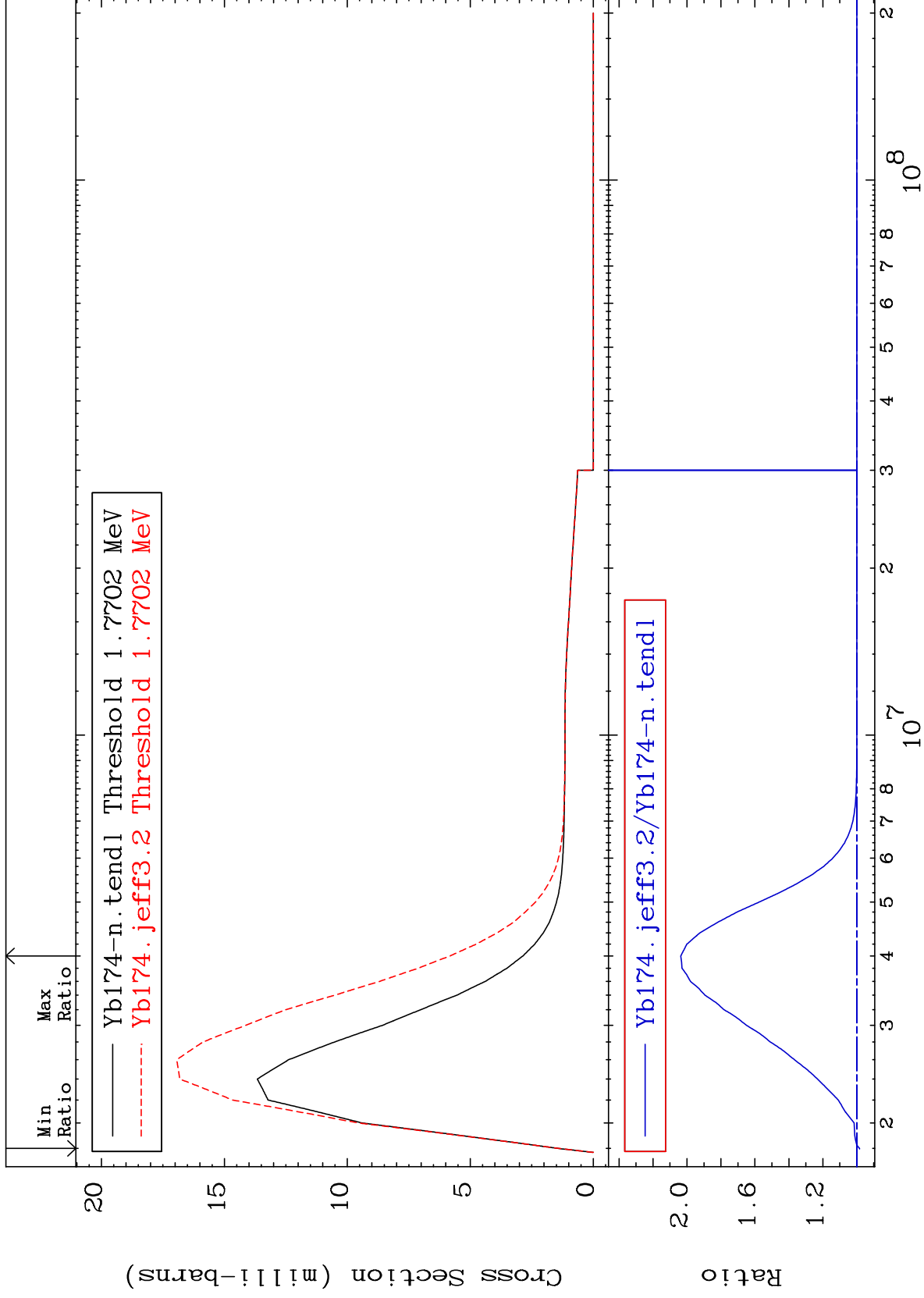
70-Yb-174
-85.93 To 163.9 %



MAT 7043

1.760 MeV (n,n') Level
Cross Section

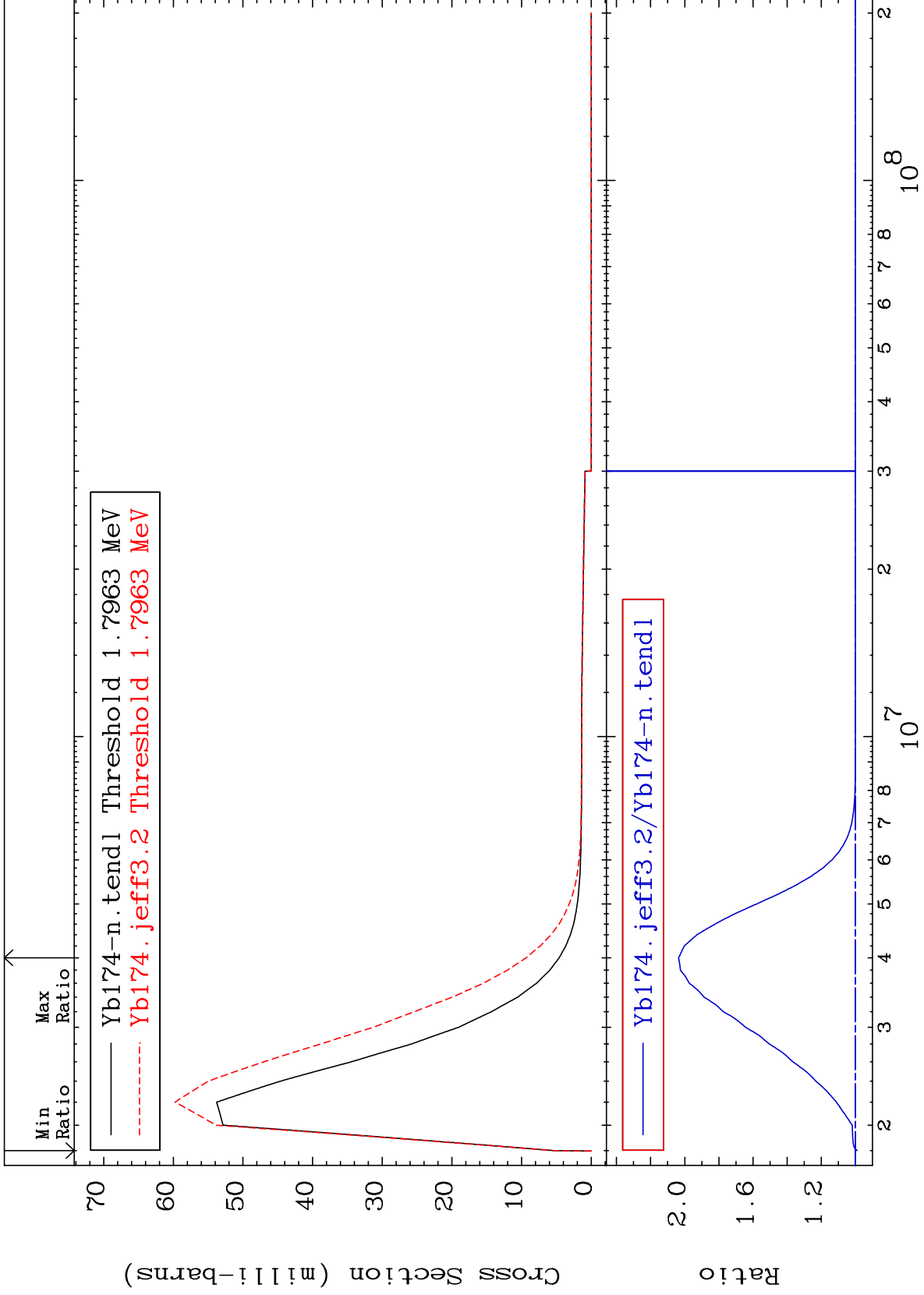
⁷⁰Yb-174
-1.616 To 103.7 %



MAT 7043

1.786 MeV (n,n') Level
Cross Section

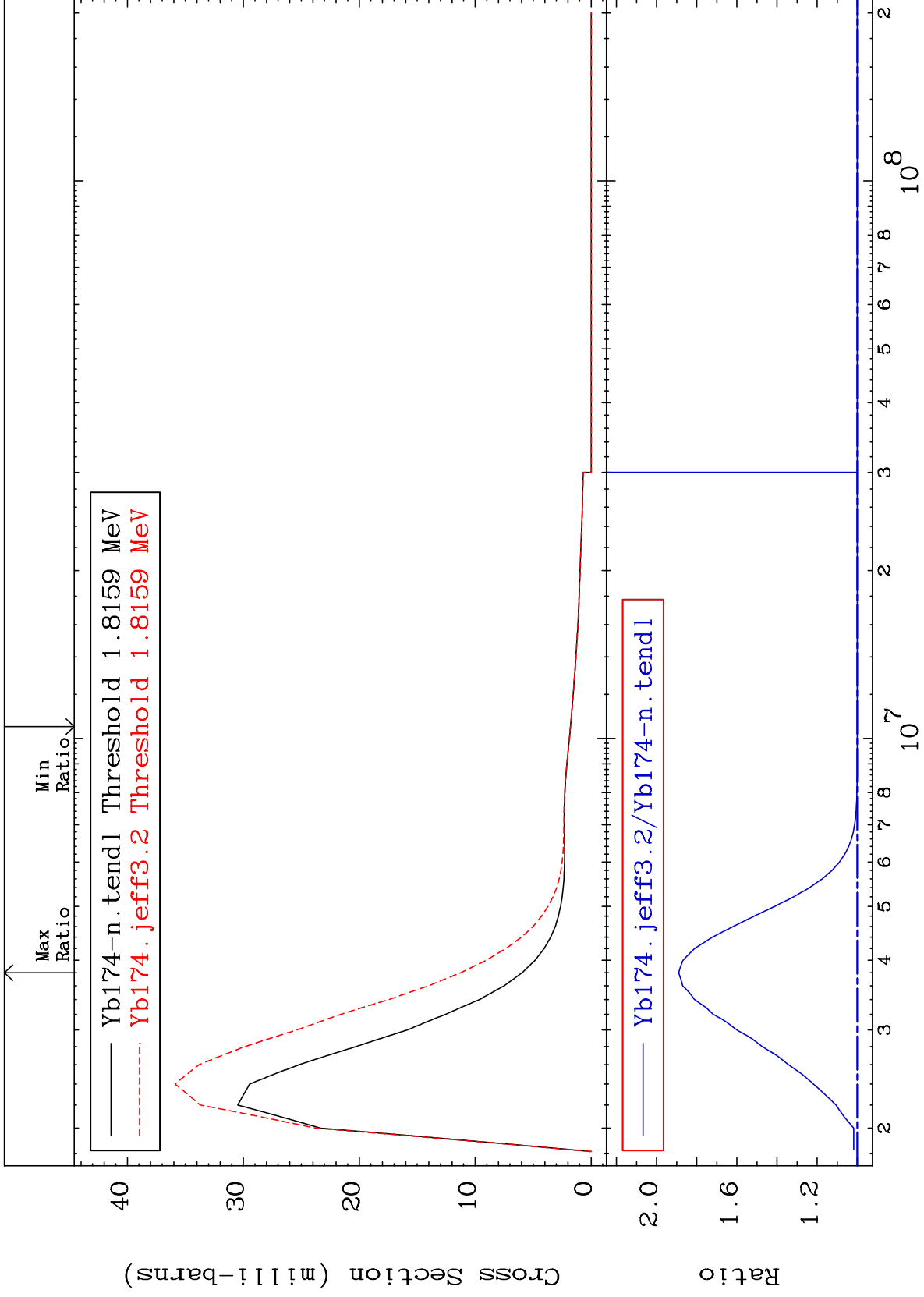
⁷⁰Yb-174
-1.077 To 103.6 %



MAT 7043

1.805 MeV (n,n') Level
Cross Section

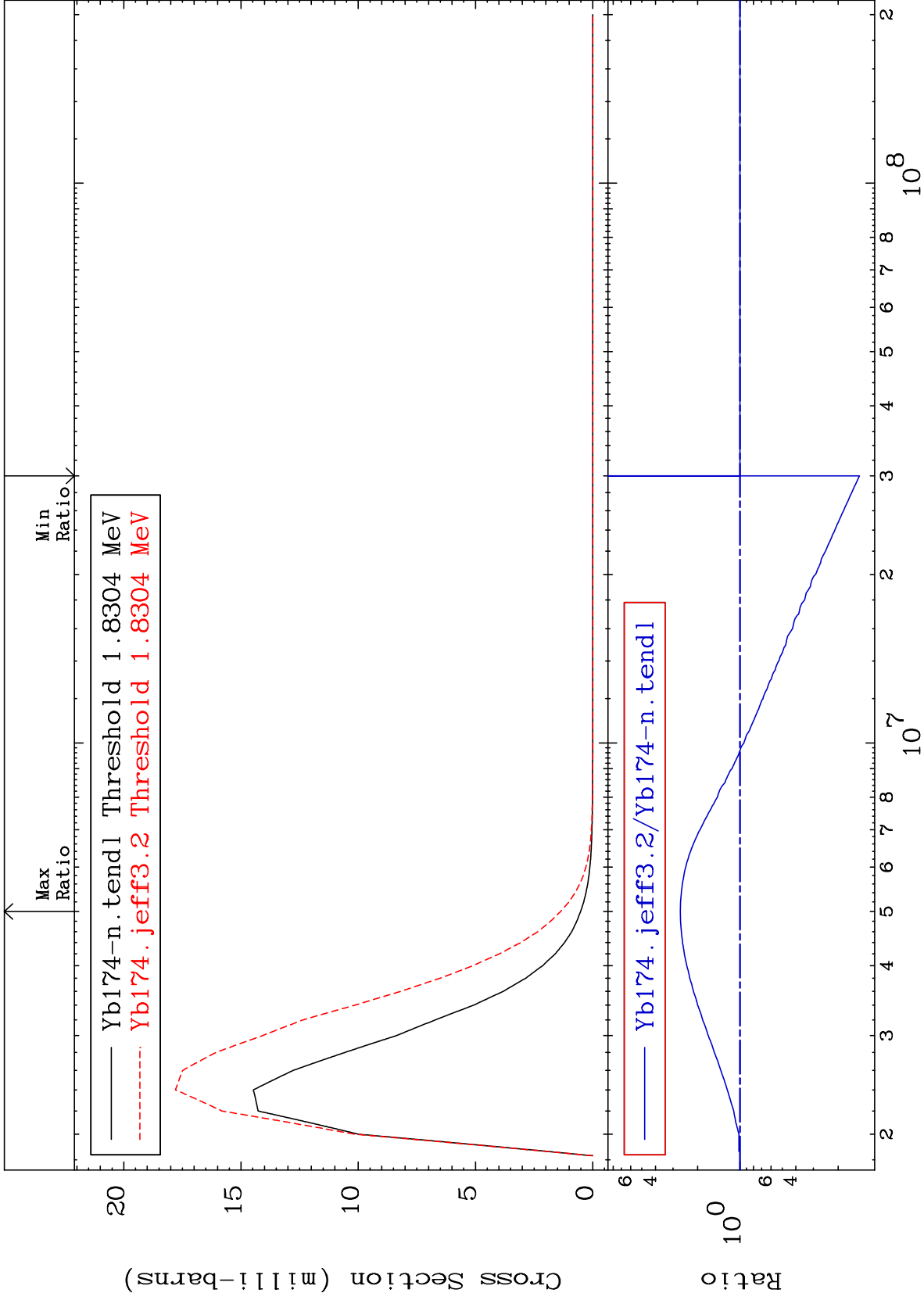
⁷⁰Yb-174
-0.003 To 89.02 %



MAT 7043

1.820 MeV (n,n') Level
Cross Section

70-Yb-174
-85.91 To 165.6 %



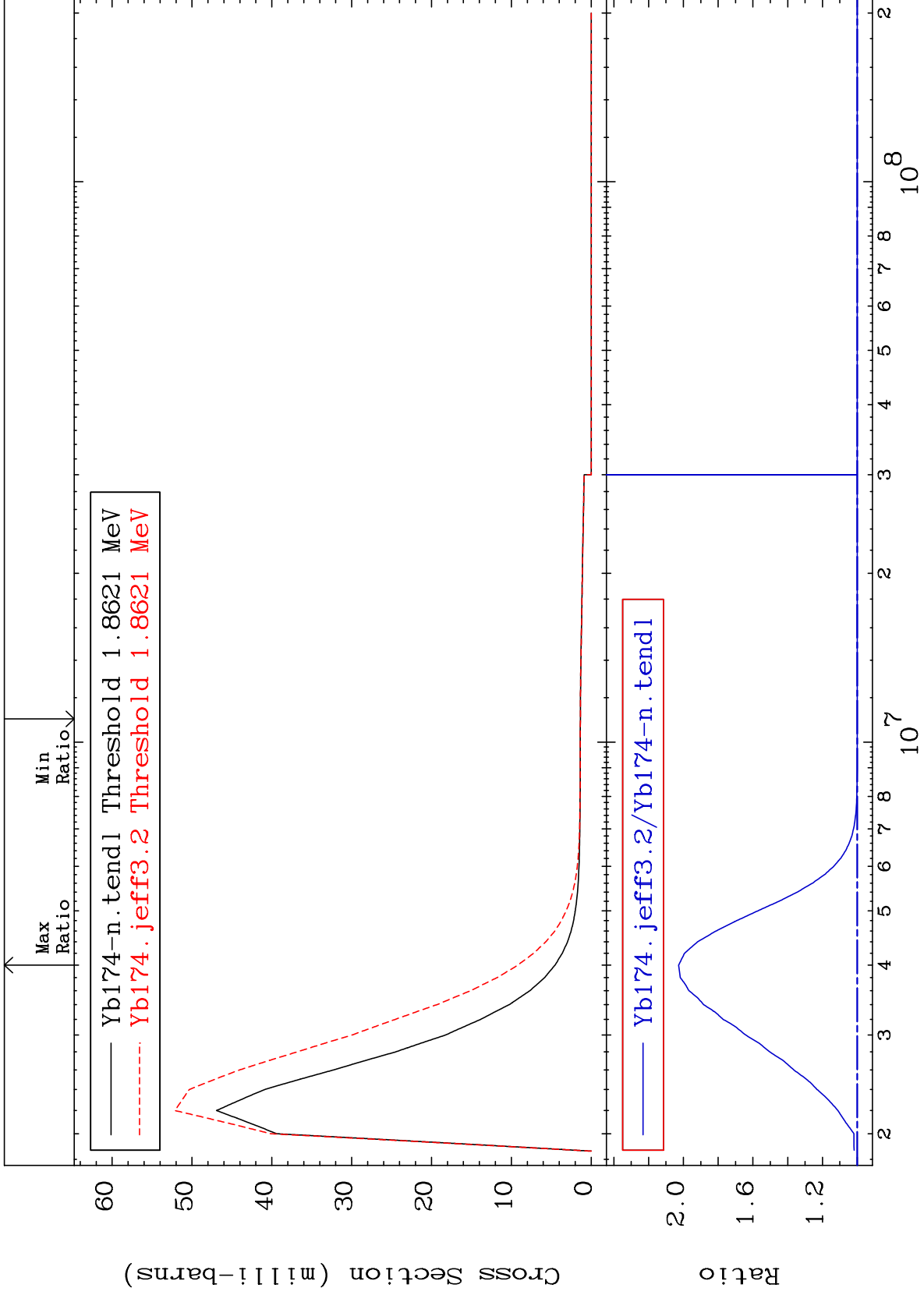
45

70-Yb-174

MAT 7043

1.851 MeV (n,n') Level
Cross Section

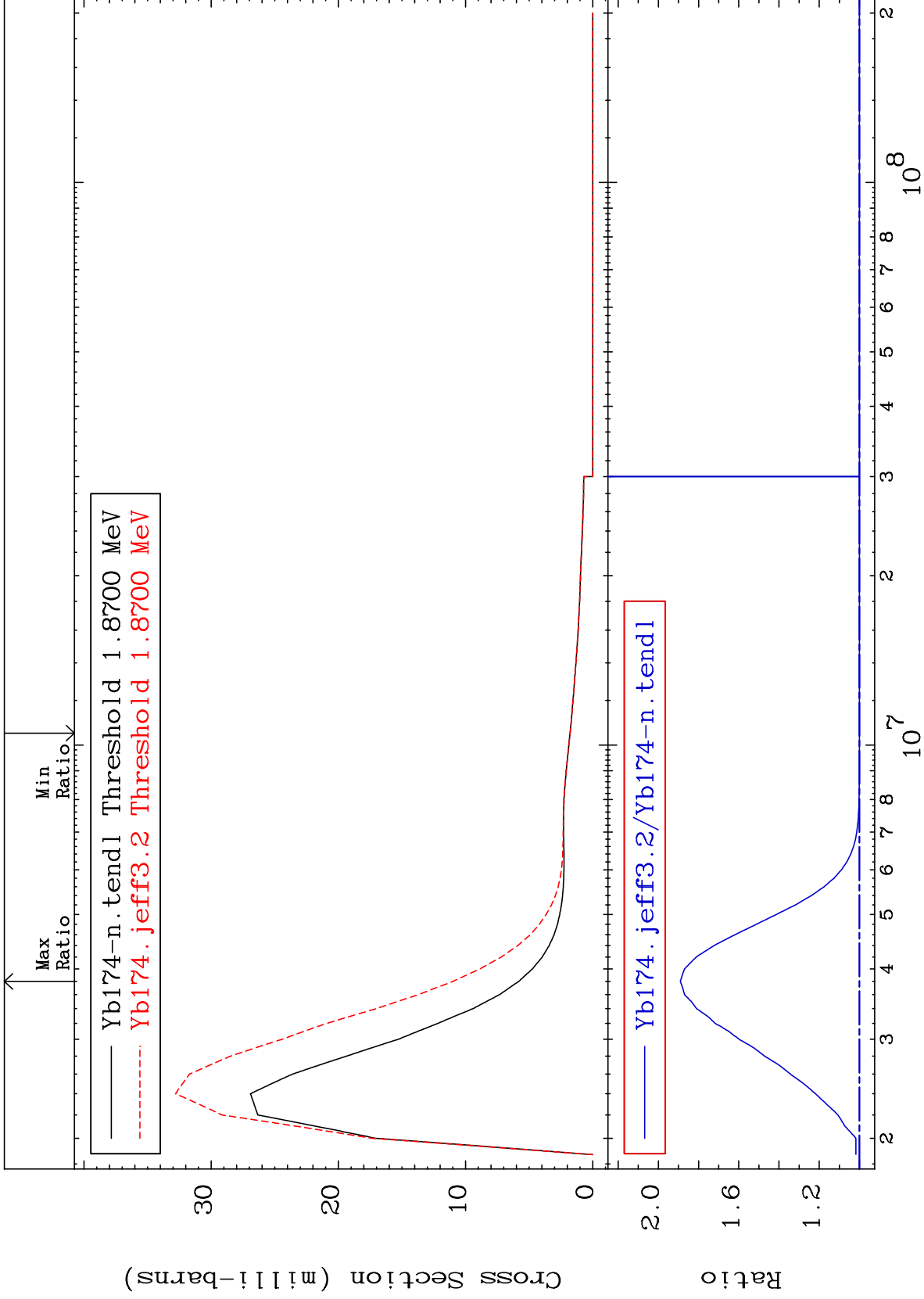
⁷⁰Yb-174
-0.003 To 102.7 %



MAT 7043

1.859 MeV (n,n') Level
Cross Section

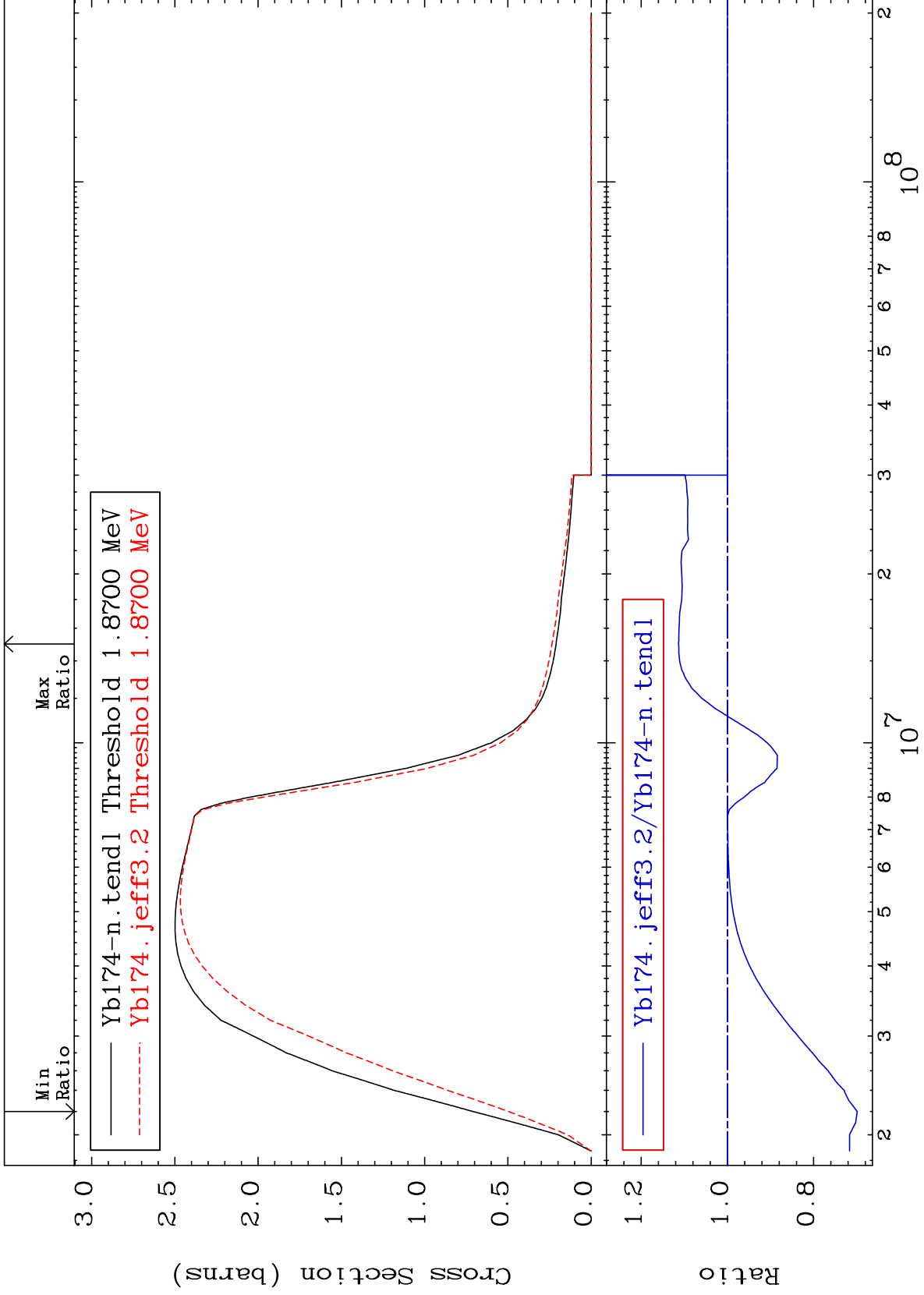
70-Yb-174
-0.003 To 89.06 %



MAT 7043

(n, n') Continuum
Cross Section

70-Yb-174
-30.11 To 11.32 %

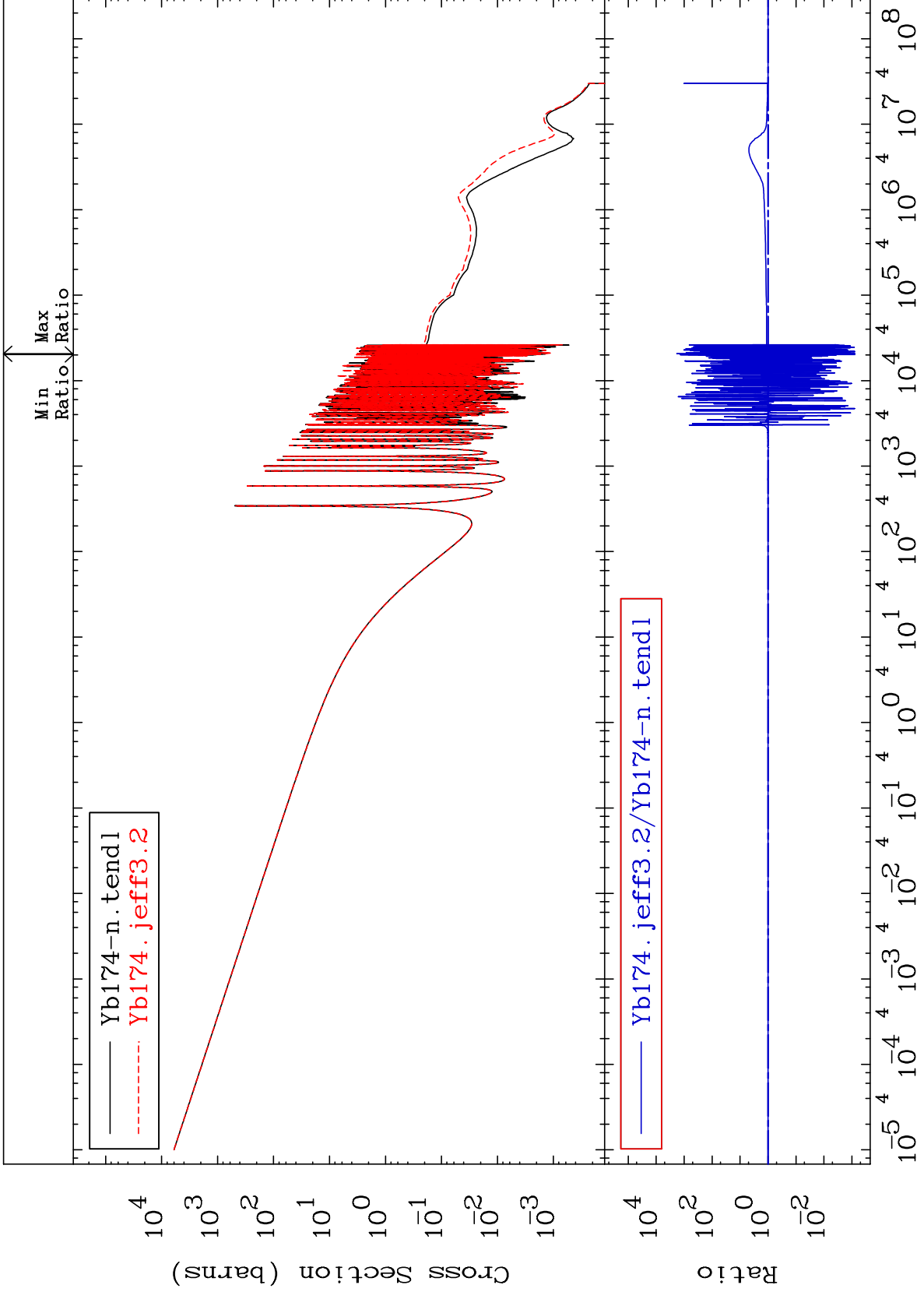


MAT 7043

(n, γ)

Cross Section

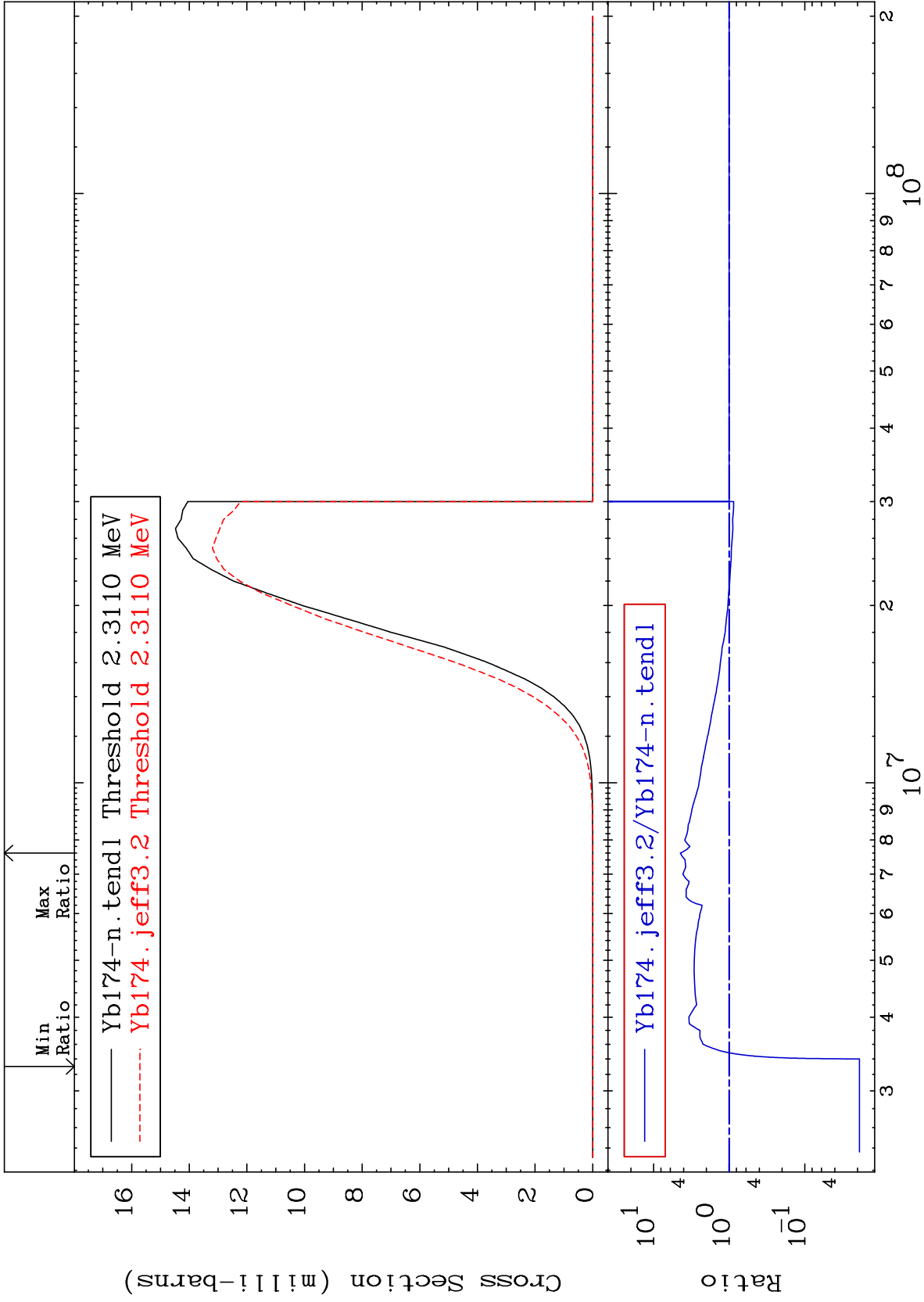
70-Yb-174
-99.92 To 9999. %



MAT 7043

(n,p)
Cross Section

⁷⁰Yb-174
-98.11 To 342.1 %



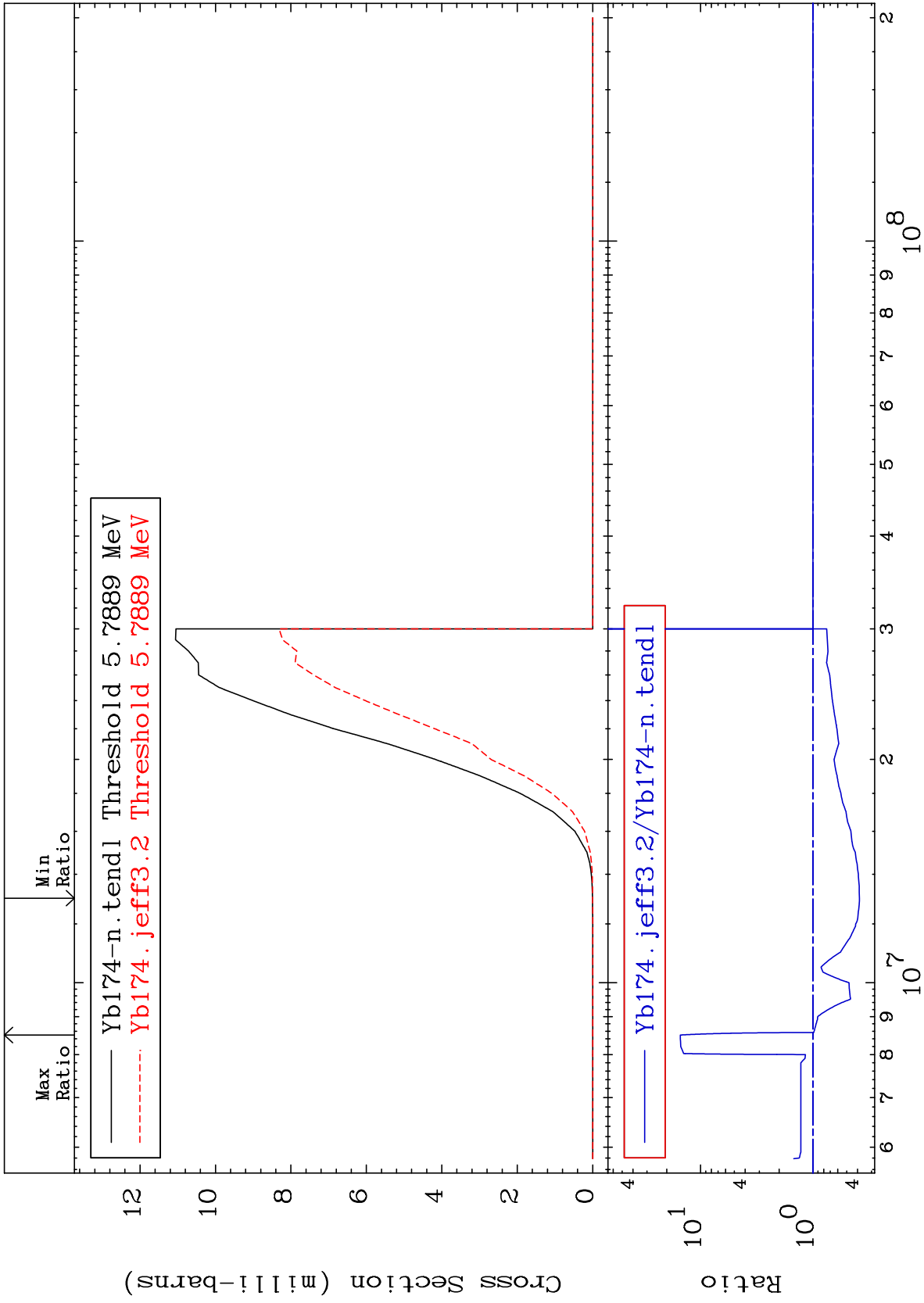
MAT 7043

(n, d)

70-Yb-174

Cross Section

-61.55 To 1415. %



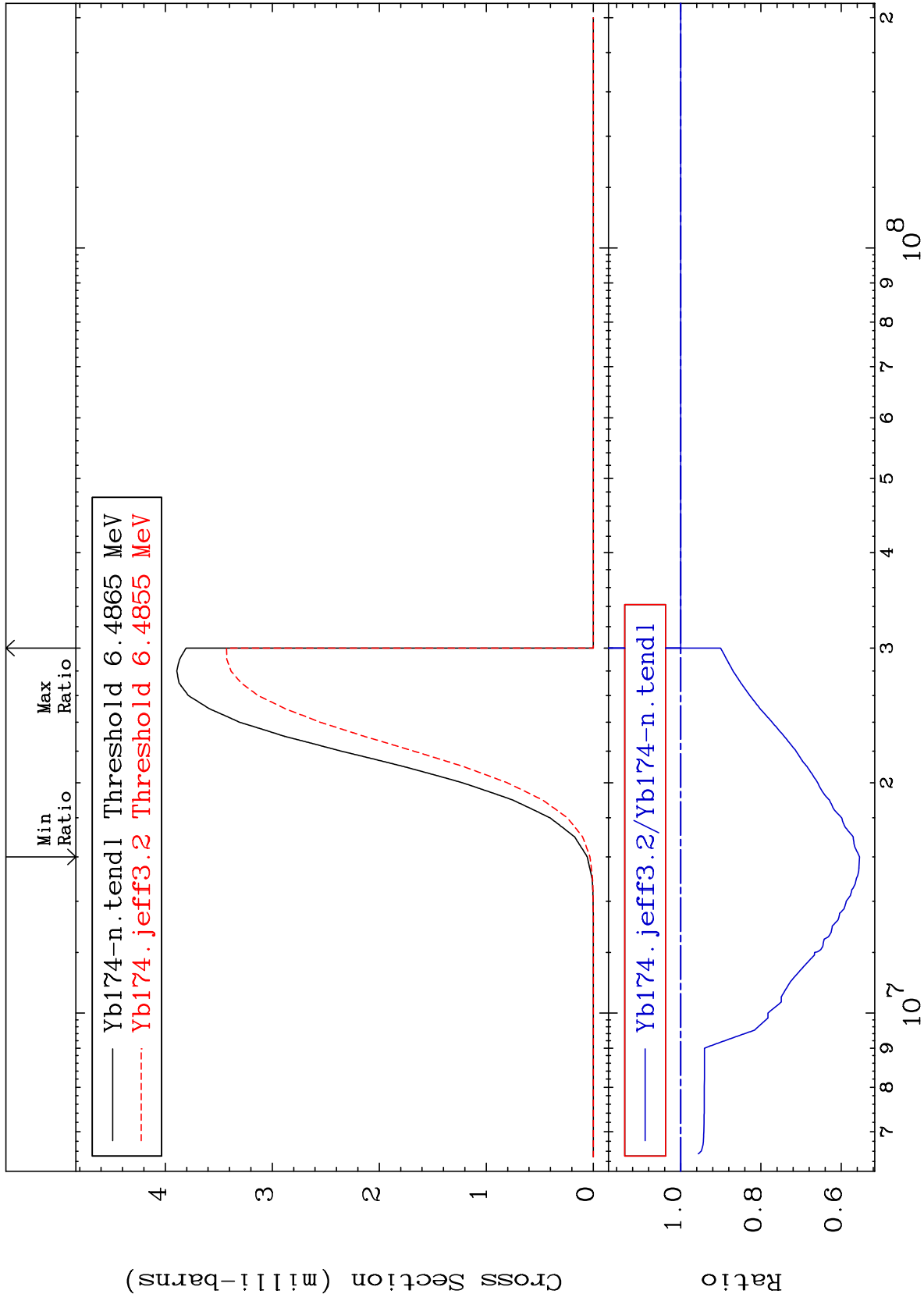
51

Incident Energy (eV)

70-Yb-174

MAT 7043

(n, t)
Cross Section
70-Yb-174
-44.58 To 0.000 %



52

Incident Energy (eV)

70-Yb-174

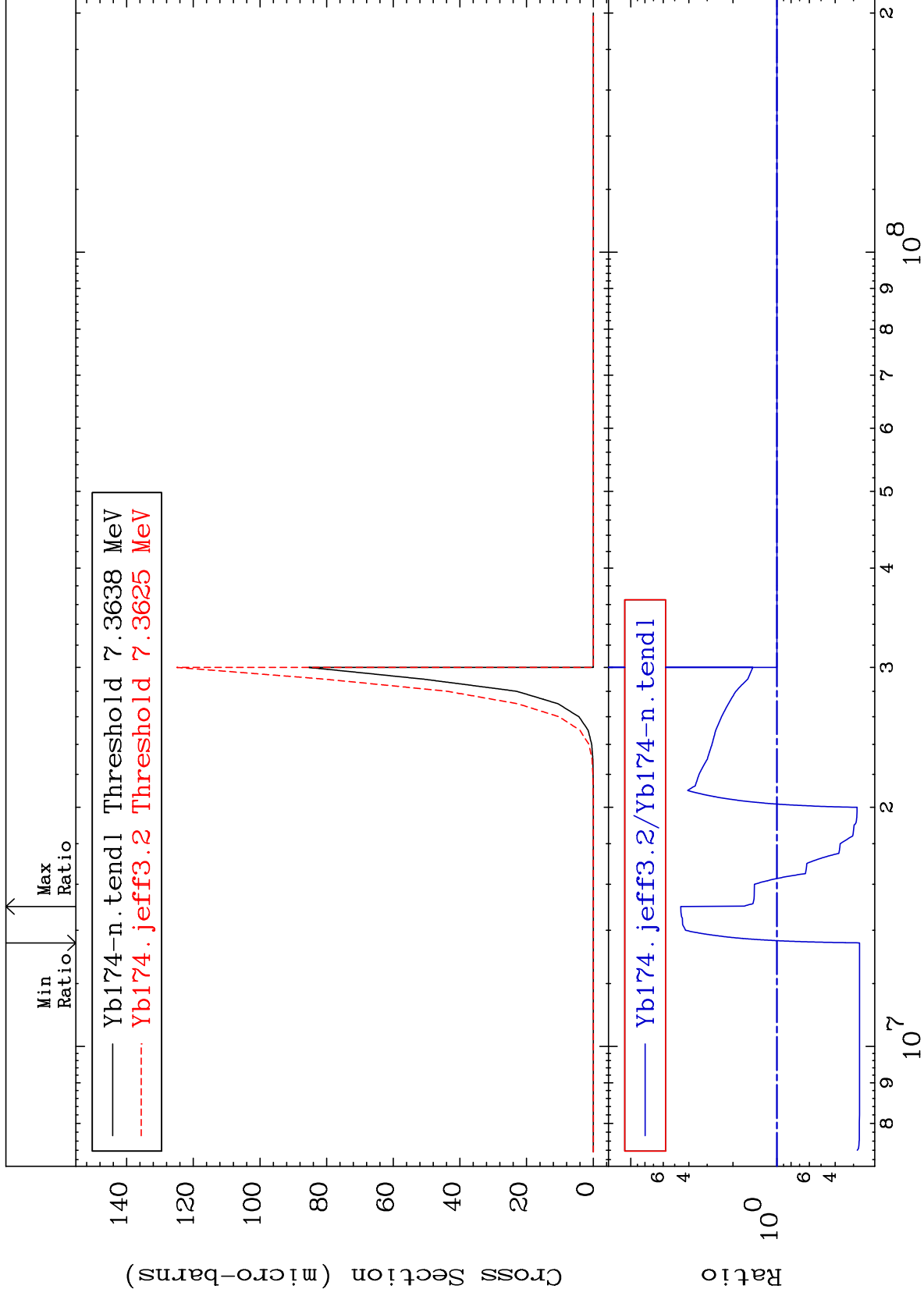
MAT 7043

(n, He-3)

⁷⁰Yb-174

Cross Section

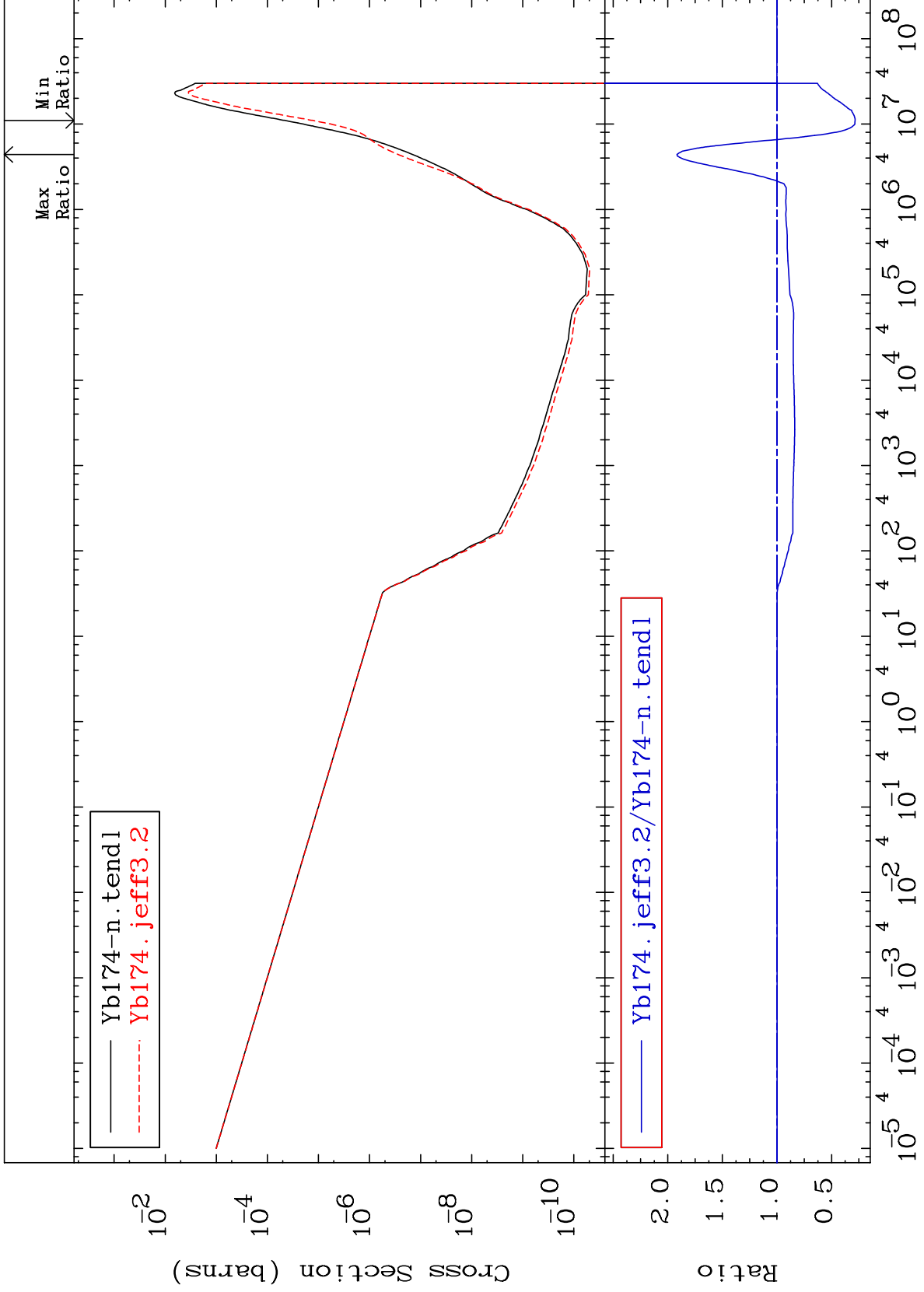
-72.75 To 354.6 %



MAT 7043

(n, α)
Cross Section

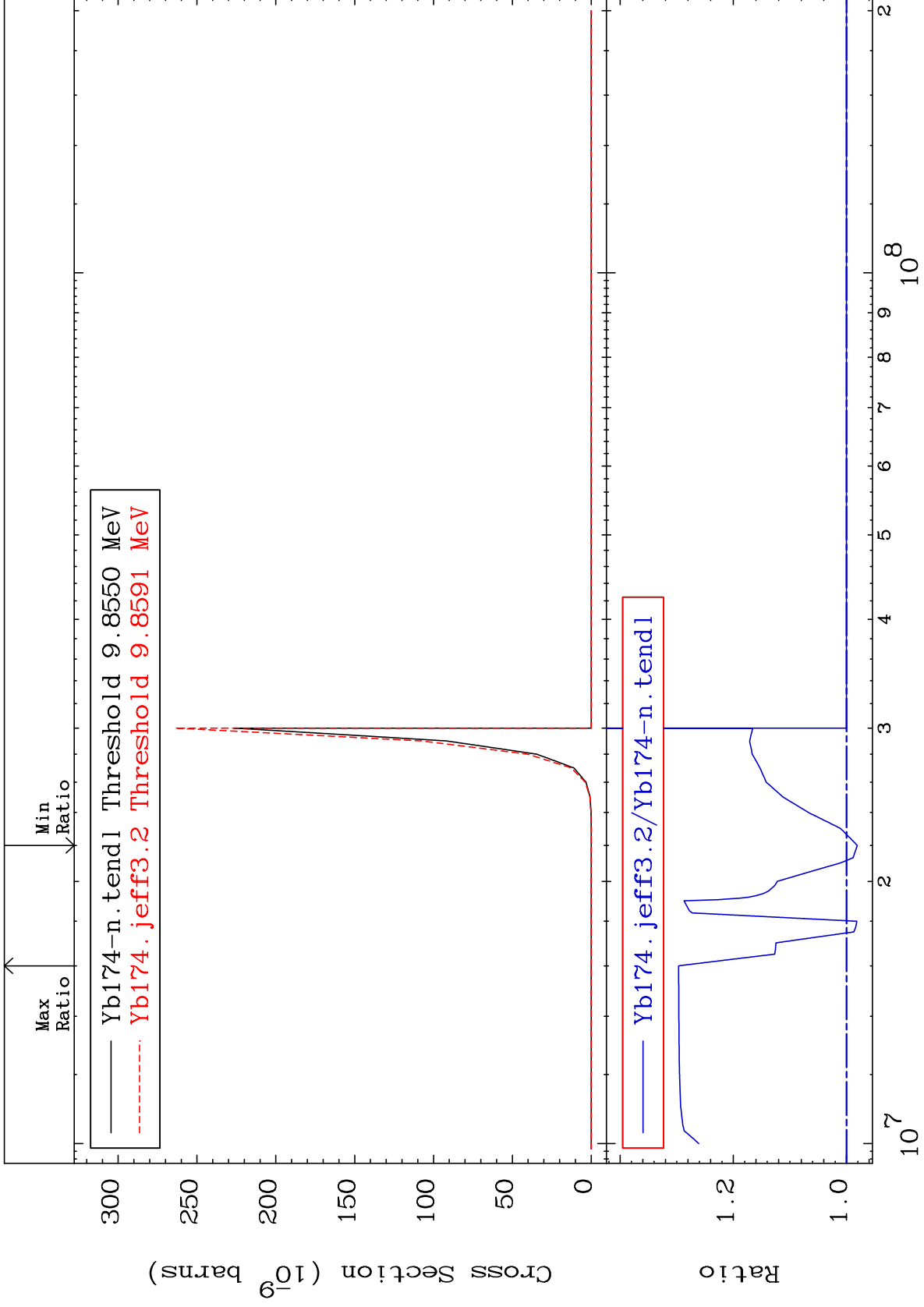
70-Yb-174
-71.57 To 91.65 %



MAT 7043

(n,2p)
Cross Section

⁷⁰Yb-174
-1.904 To 29.66 %



55

Incident Energy (eV)

⁷⁰Yb-174

MAT 7043

(n, p) α
Cross Section

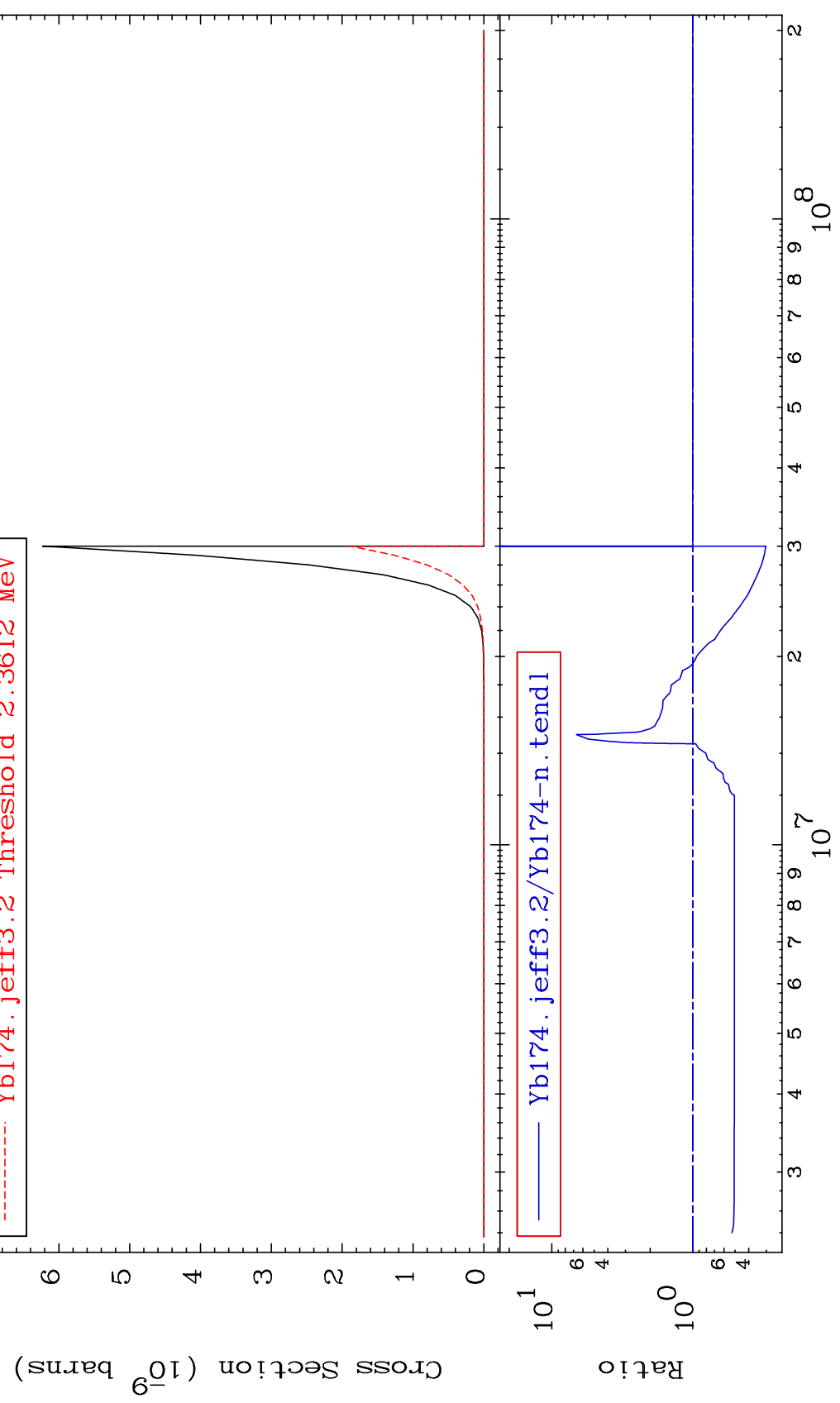
70-Yb-174
-69.79 To 566.4 %

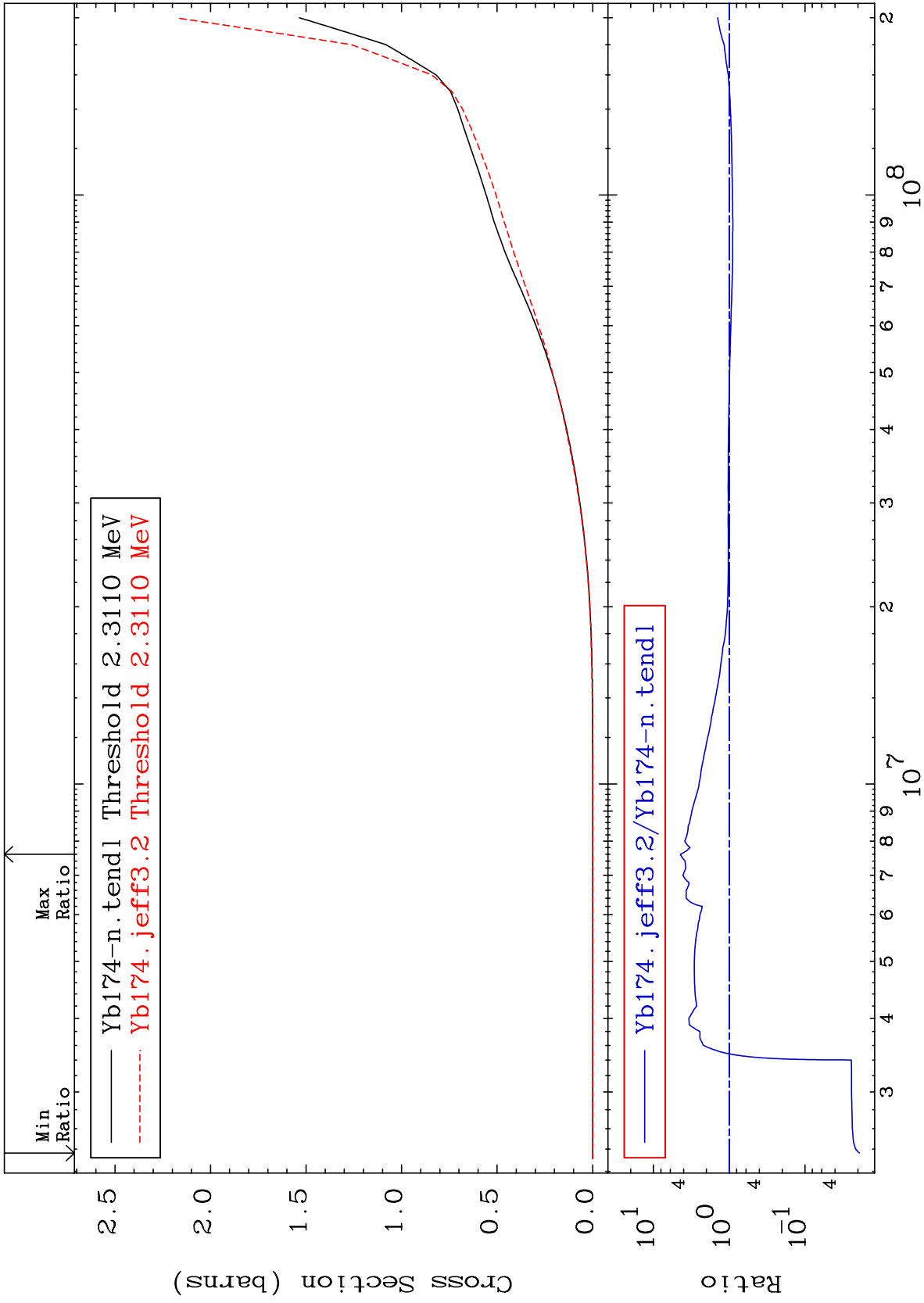
— Yb174-n.tendl Threshold 2.3626 MeV
- - - Yb174.jeff3.2 Threshold 2.3612 MeV

Max Ratio

Min Ratio

Ratio

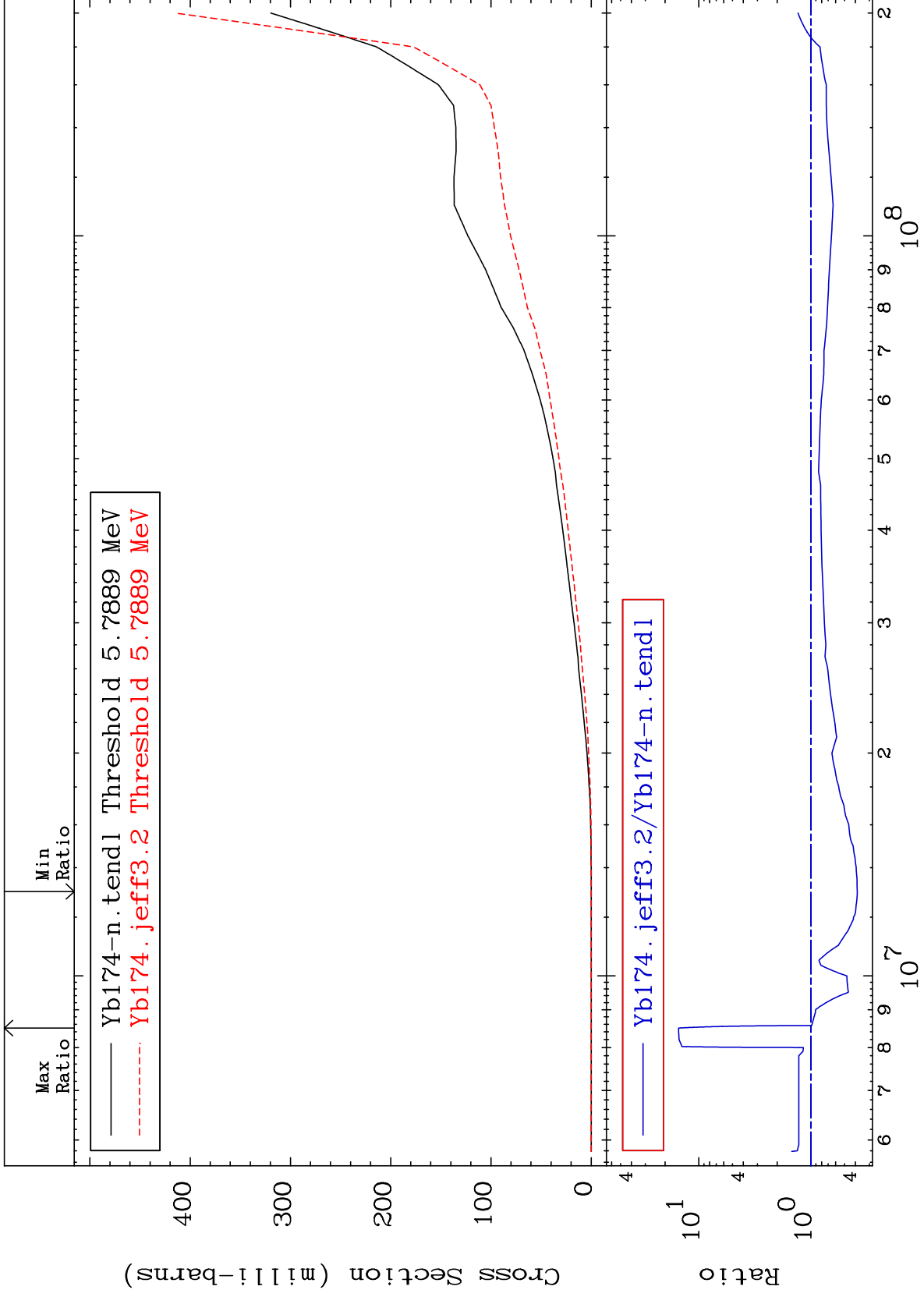




MAT 7043

Deuterium Production
Cross Section

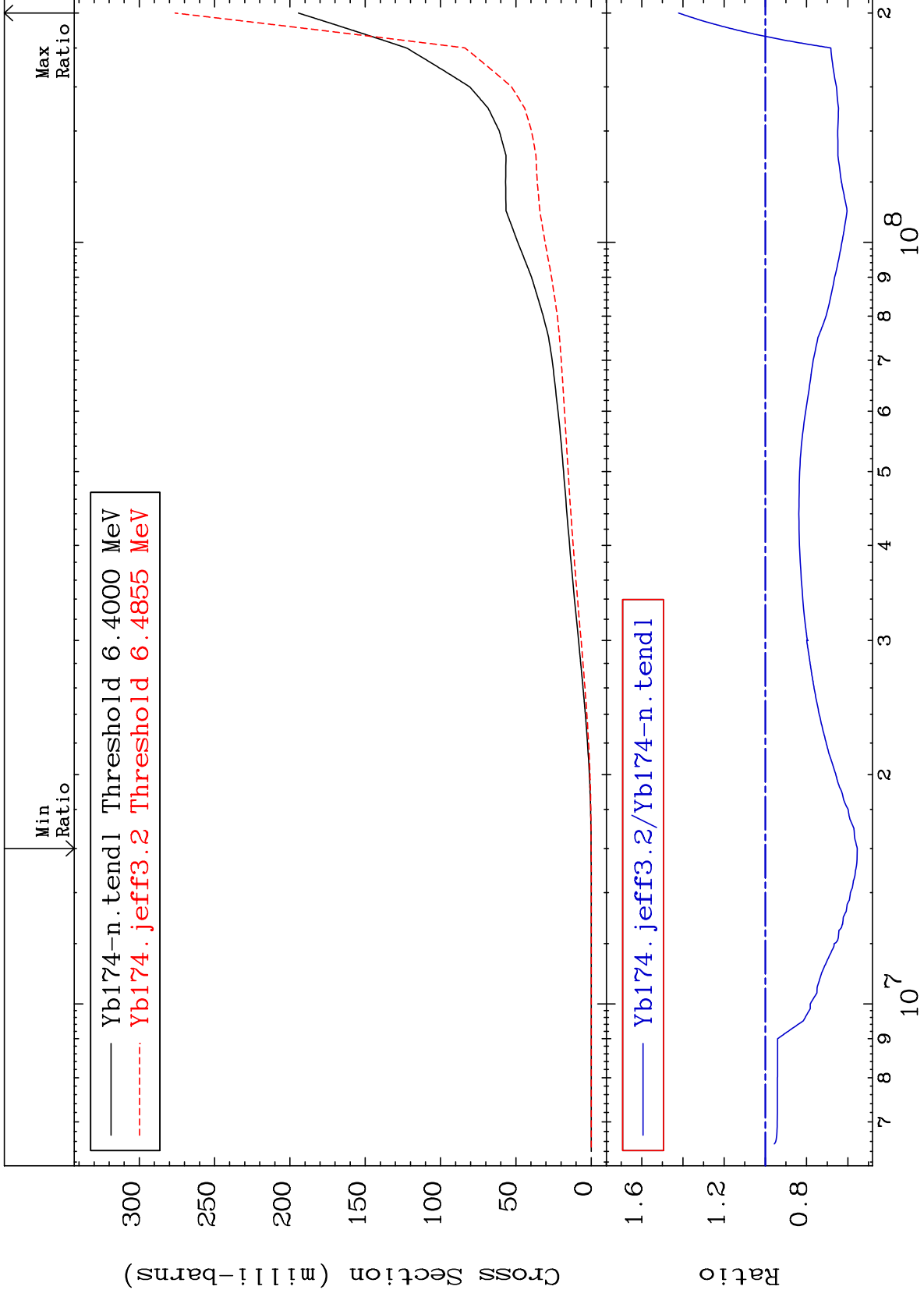
⁷⁰Yb-174
-61.55 To 1415. %



MAT 7043

Tritium Production
Cross Section

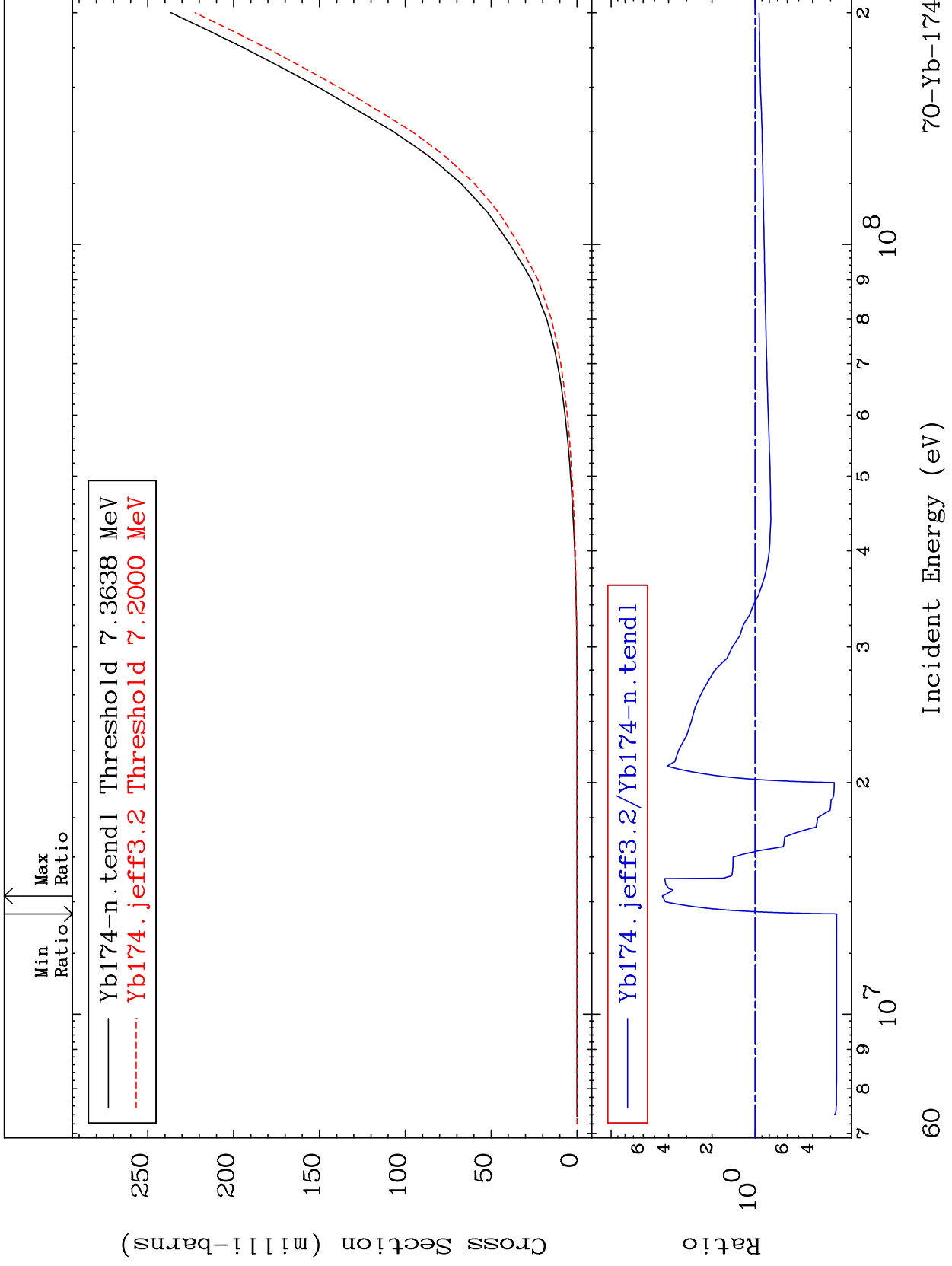
70-Yb-174
-44.58 To 42.10 %



MAT 7043

He-3 Production
Cross Section

⁷⁰Yb-¹⁷⁴
-72.75 To 341.8 %



60

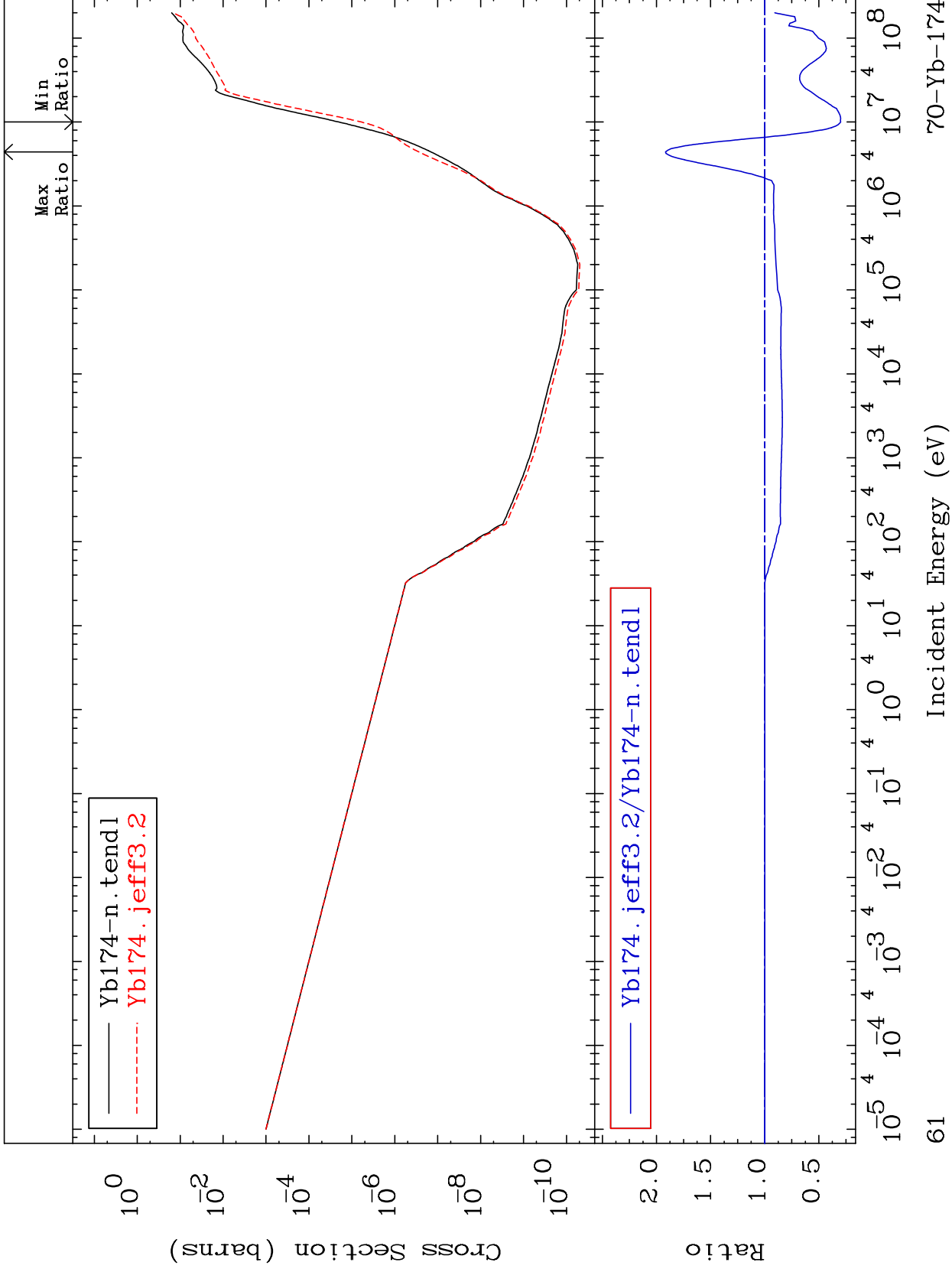
Incident Energy (eV)

⁷⁰Yb-¹⁷⁴

MAT 7043

He-4 Production
Cross Section

70-Yb-174
-70.16 To 91.65 %



61

Incident Energy (eV)

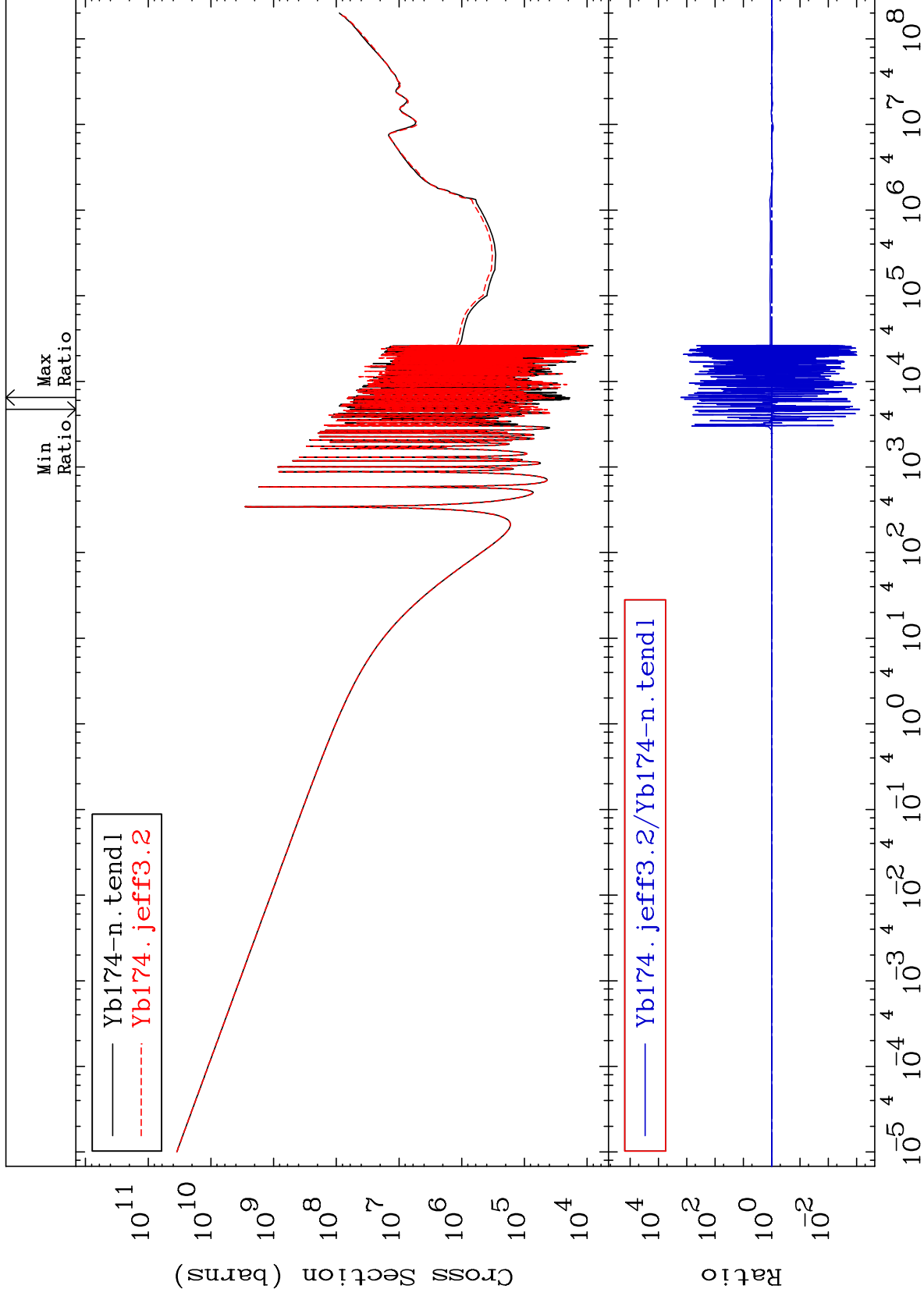
70-Yb-174

MAT 7043

Kerma total (eV-barns)
Cross Section

⁷⁰Yb-174

-99.92 To 9999. %



62

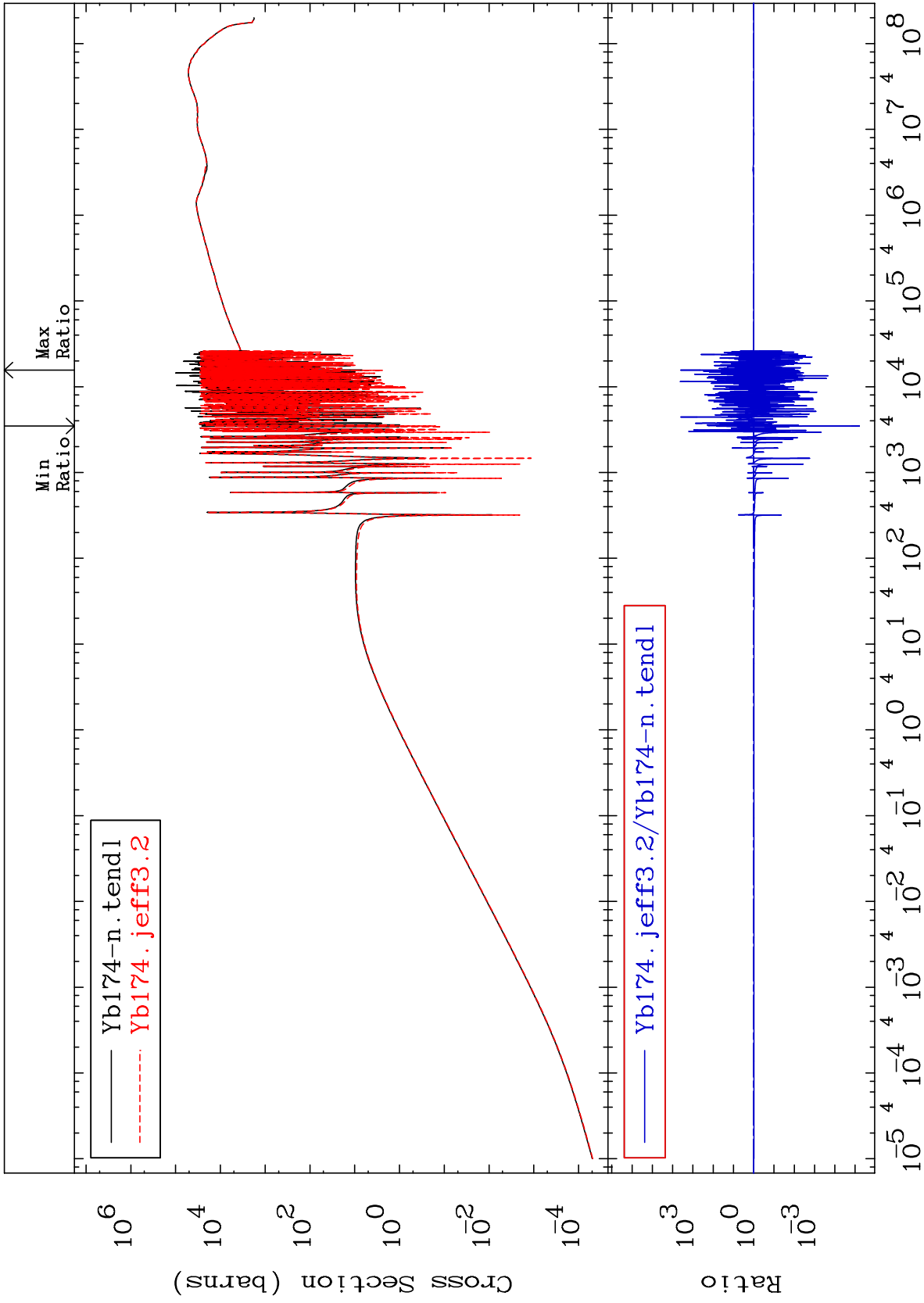
Incident Energy (eV)

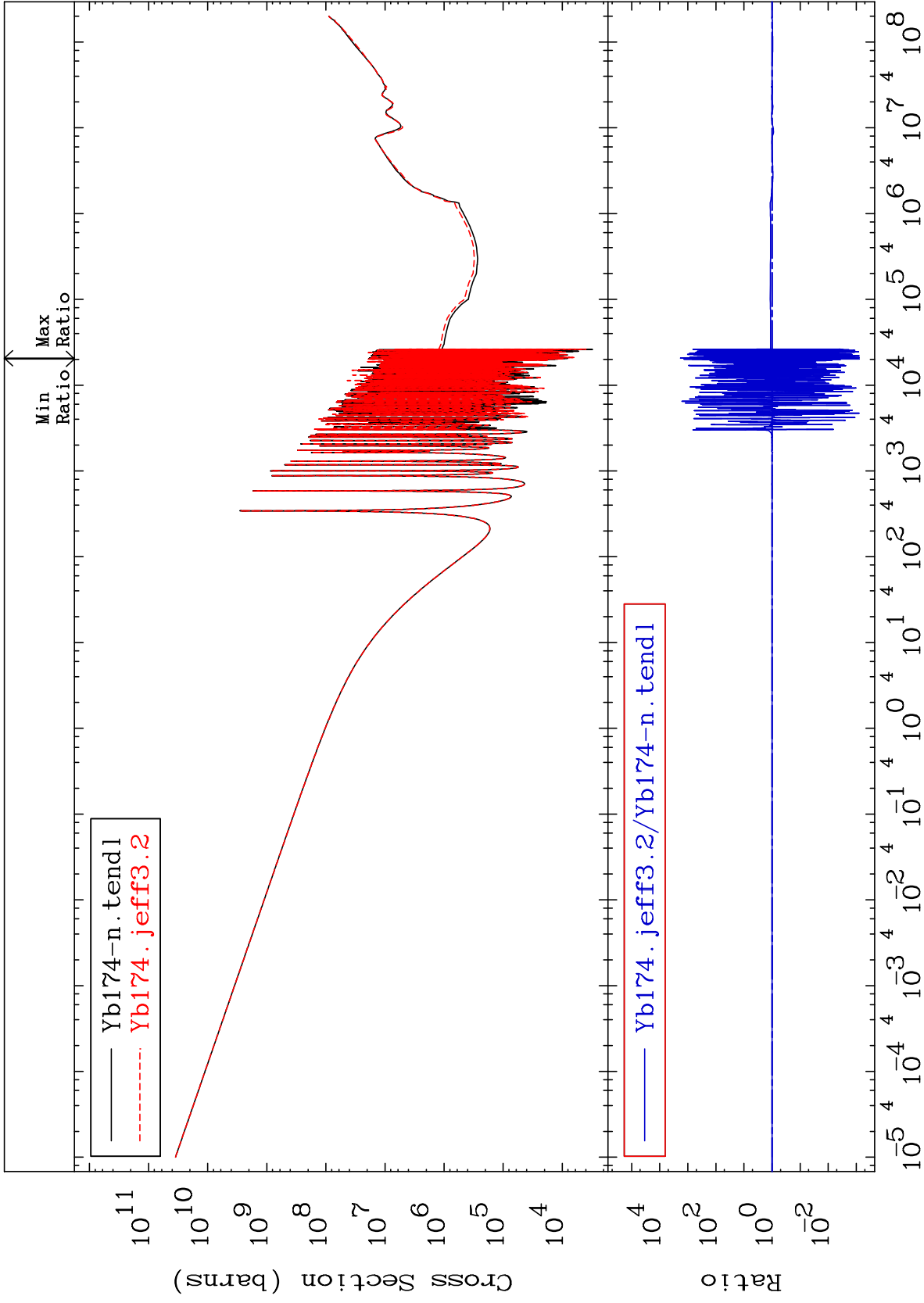
⁷⁰Yb-174

MAT 7043

Kerma elastic
Cross Section

70-Yb-174
-100.0 To 9999. %

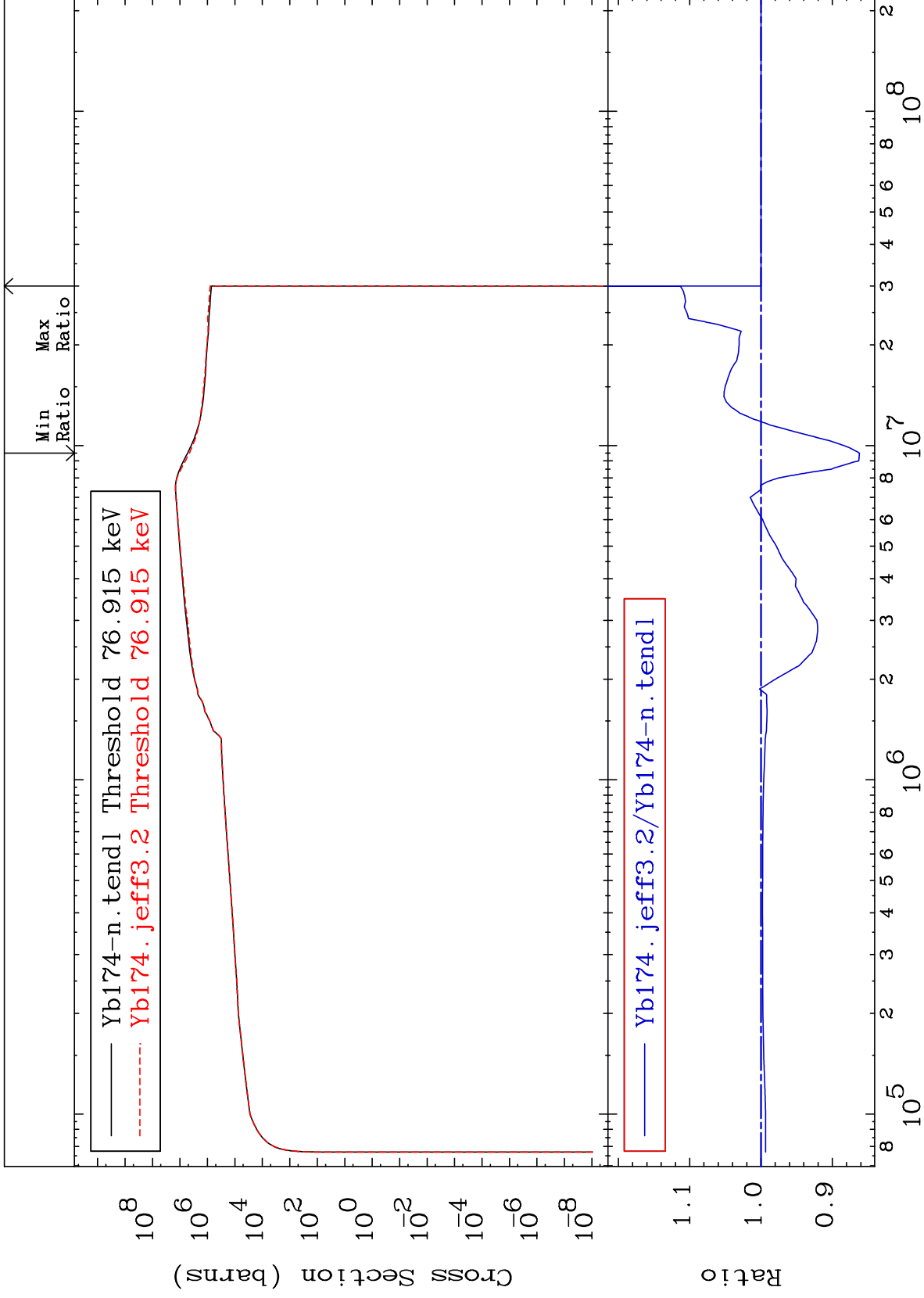




MAT 7043

Kerma inelastic (mt51-91)
Cross Section

70-Yb-174
-13.80 To 11.31 %



65

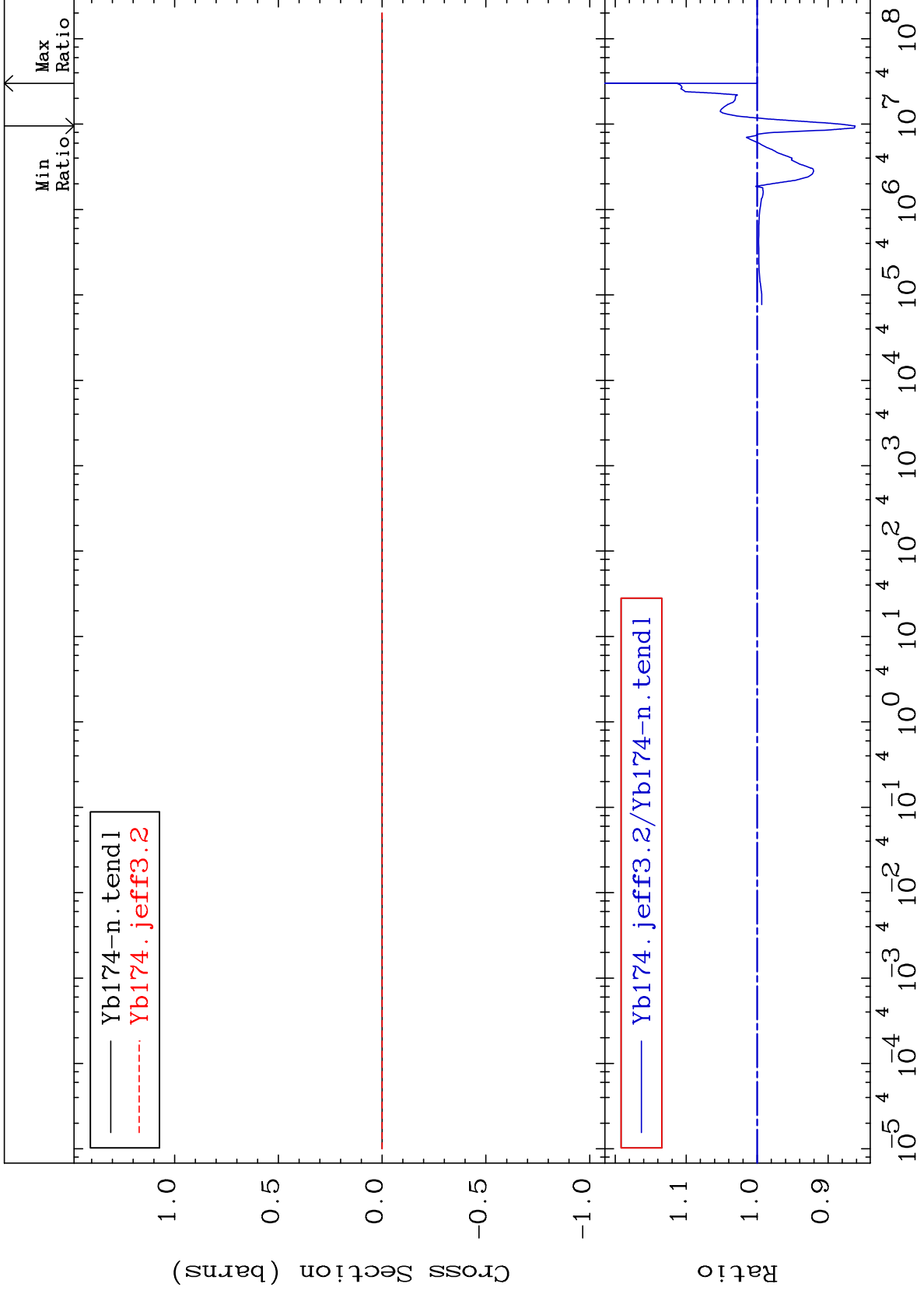
Incident Energy (eV)

70-Yb-174

MAT 7043

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

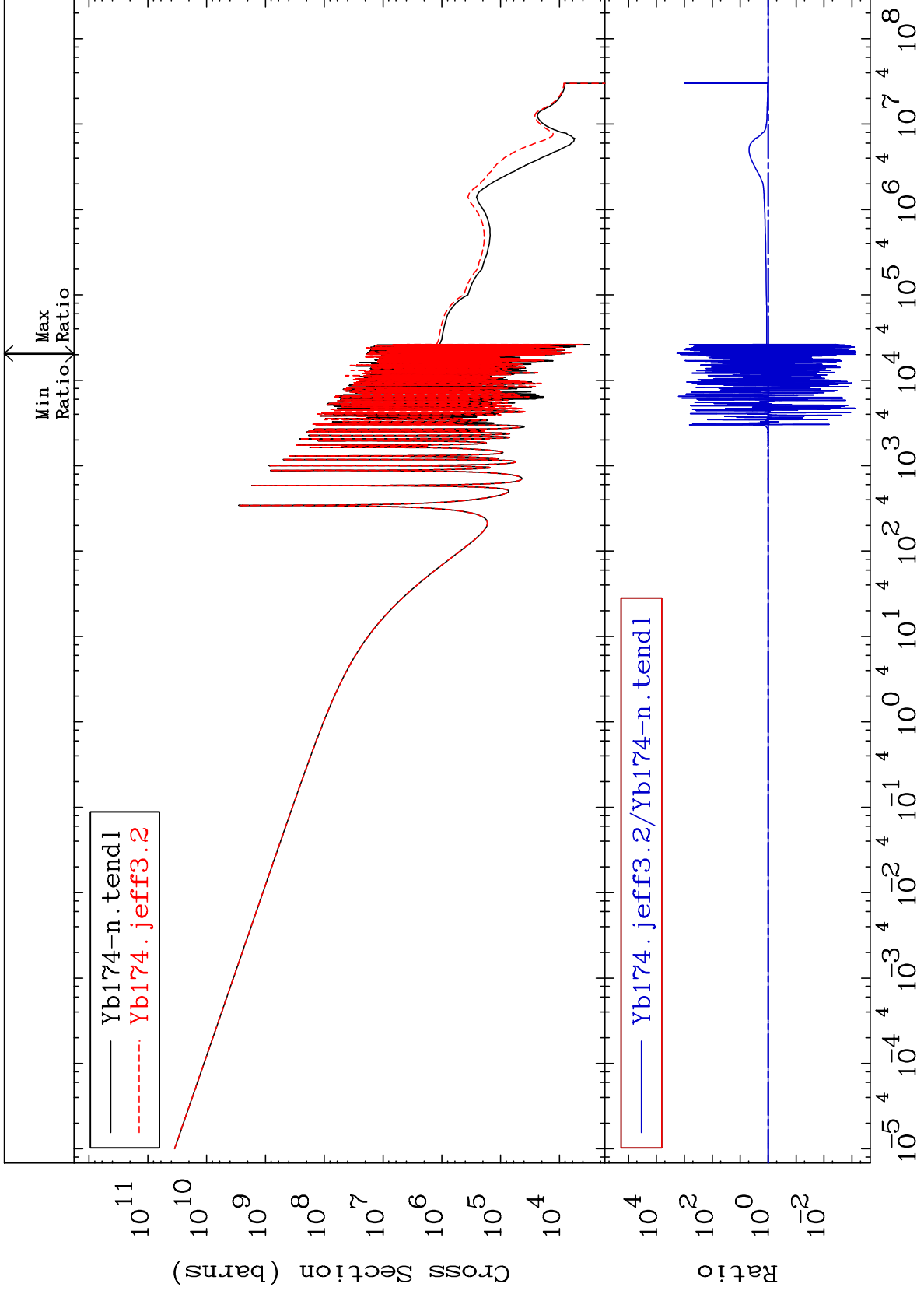
70-Yb-174
-13.80 To 11.31 %



MAT 7043

Kerma capture (mt102)
Cross Section

70-Yb-174
-99.92 To 9999. %



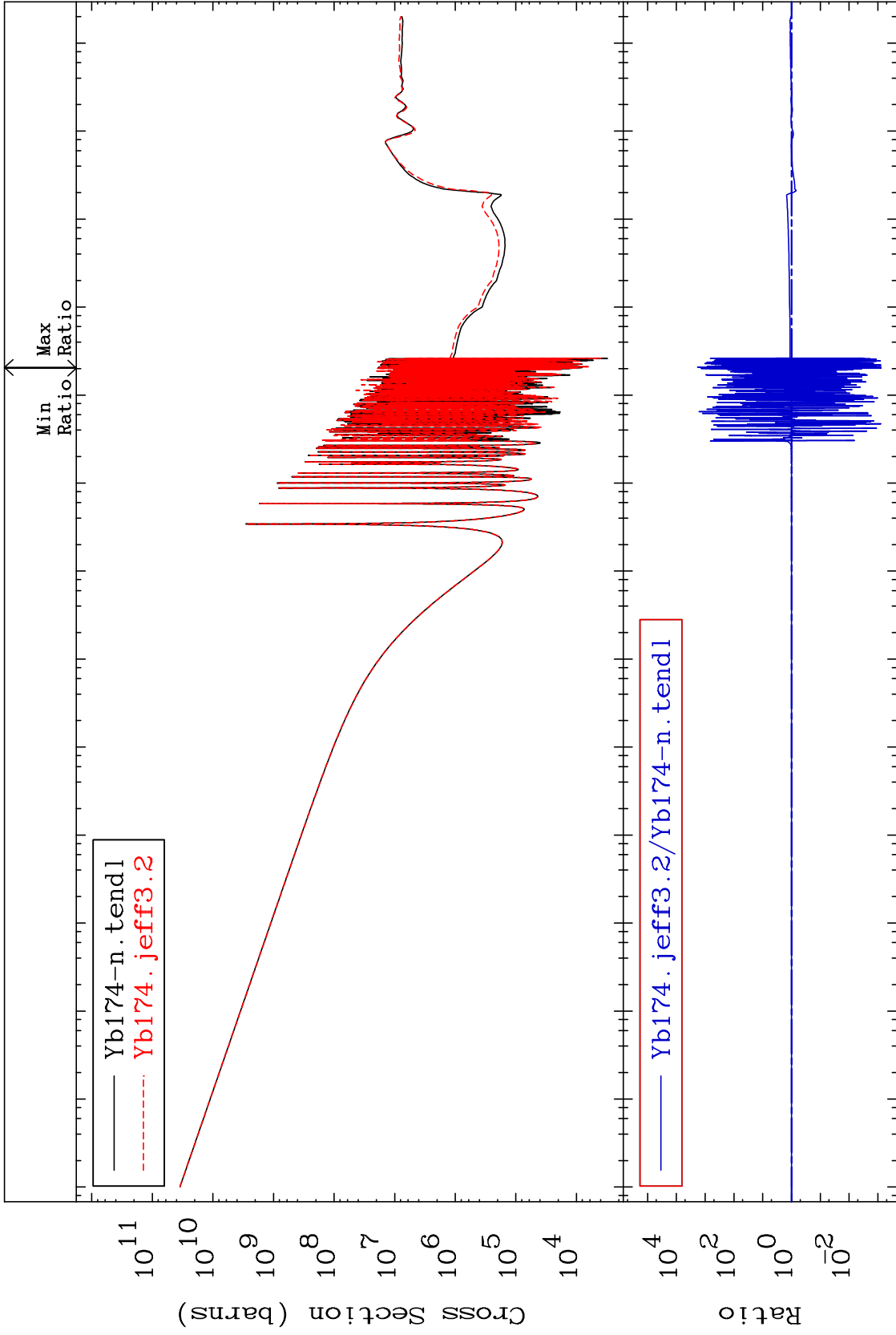
67

70-Yb-174

MAT 7043

Total photon (eV-barns)
Cross Section

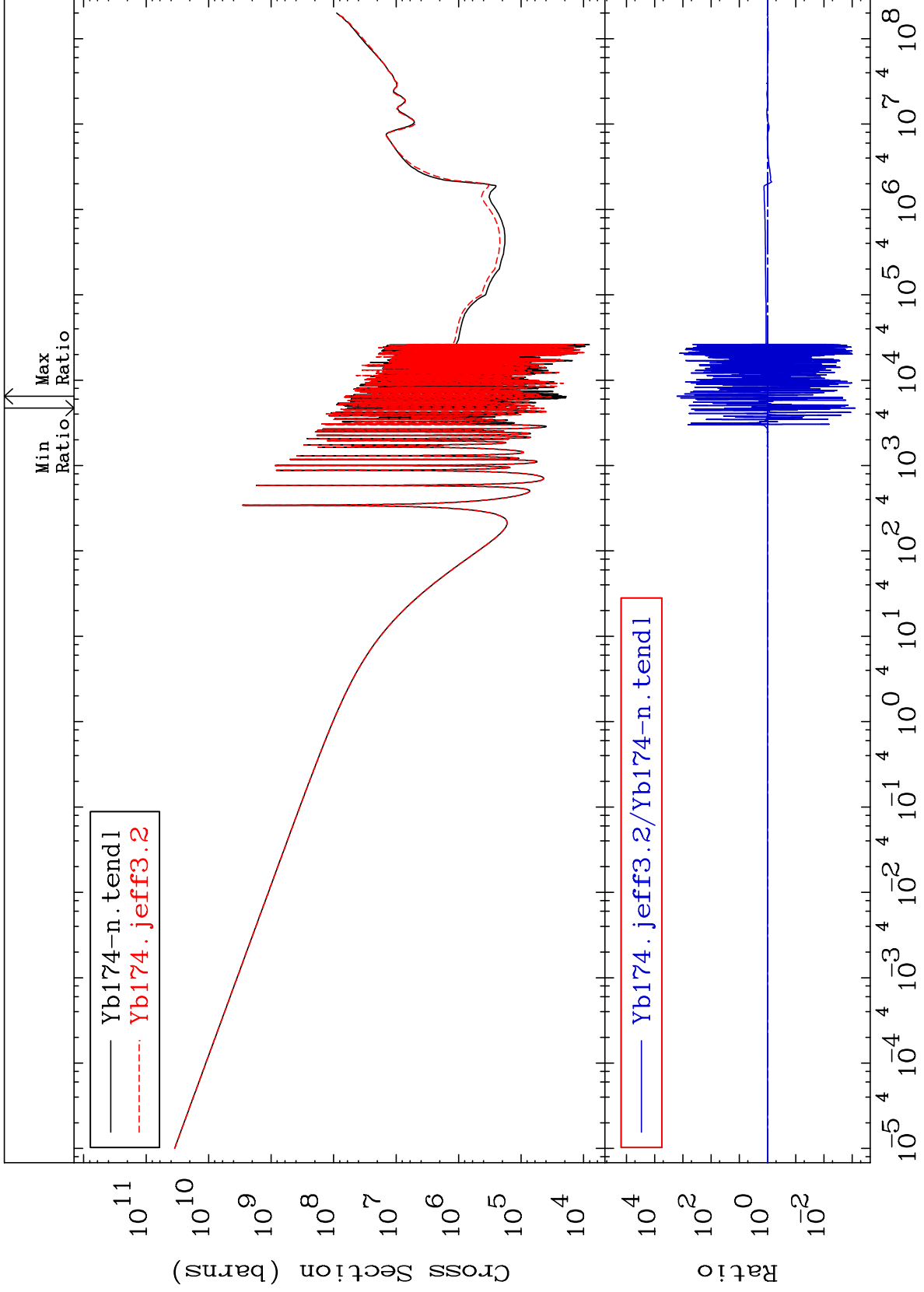
70-Yb-174
-99.92 To 9999. %



MAT 7043

Total kinematic kerma (high limit)
Cross Section

70-Yb-174
-99.92 To 9999. %



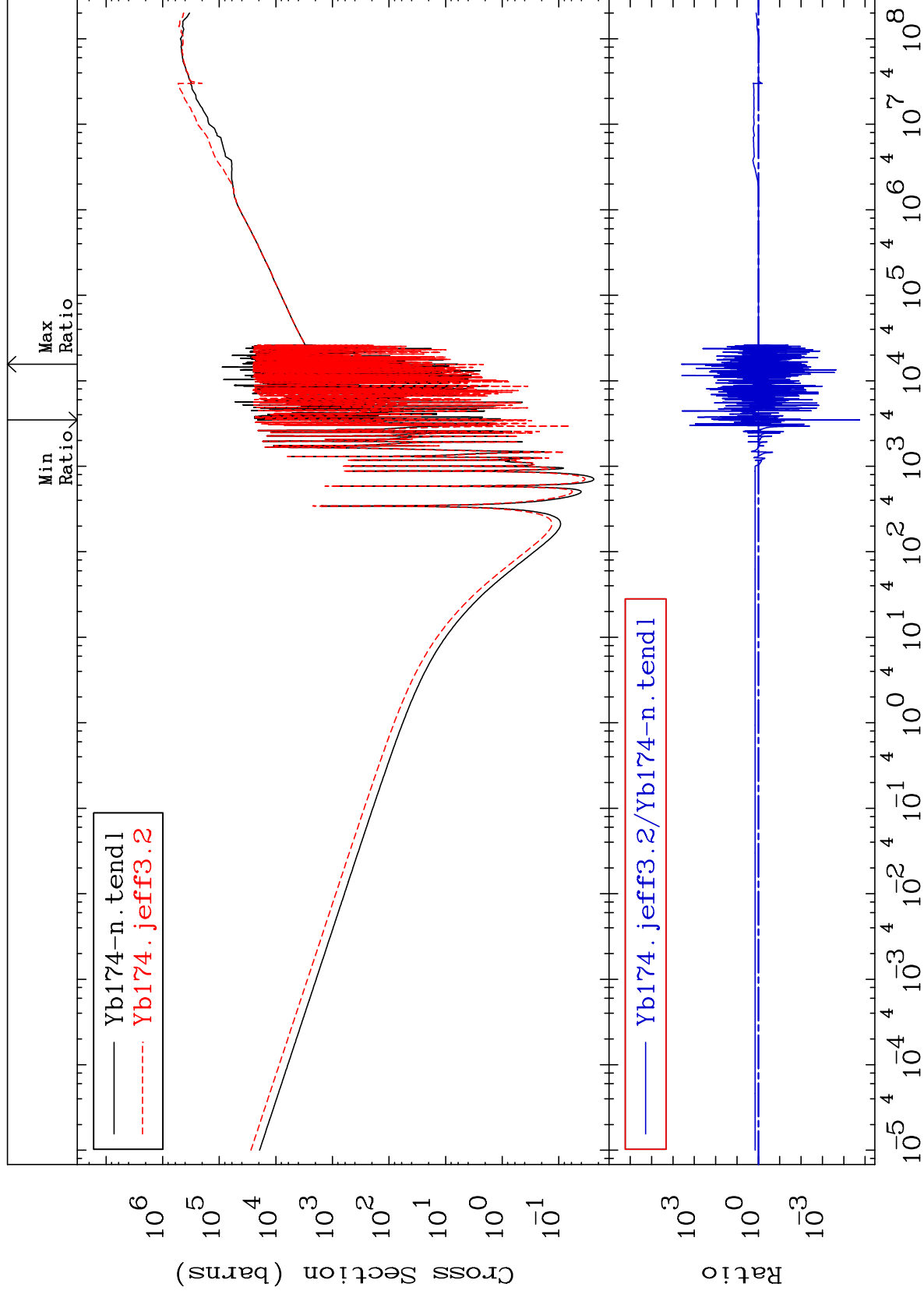
MAT 7043

Dpa total (eV-barns)

70-Yb-174

Cross Section

-100.0 To 9999. %



70

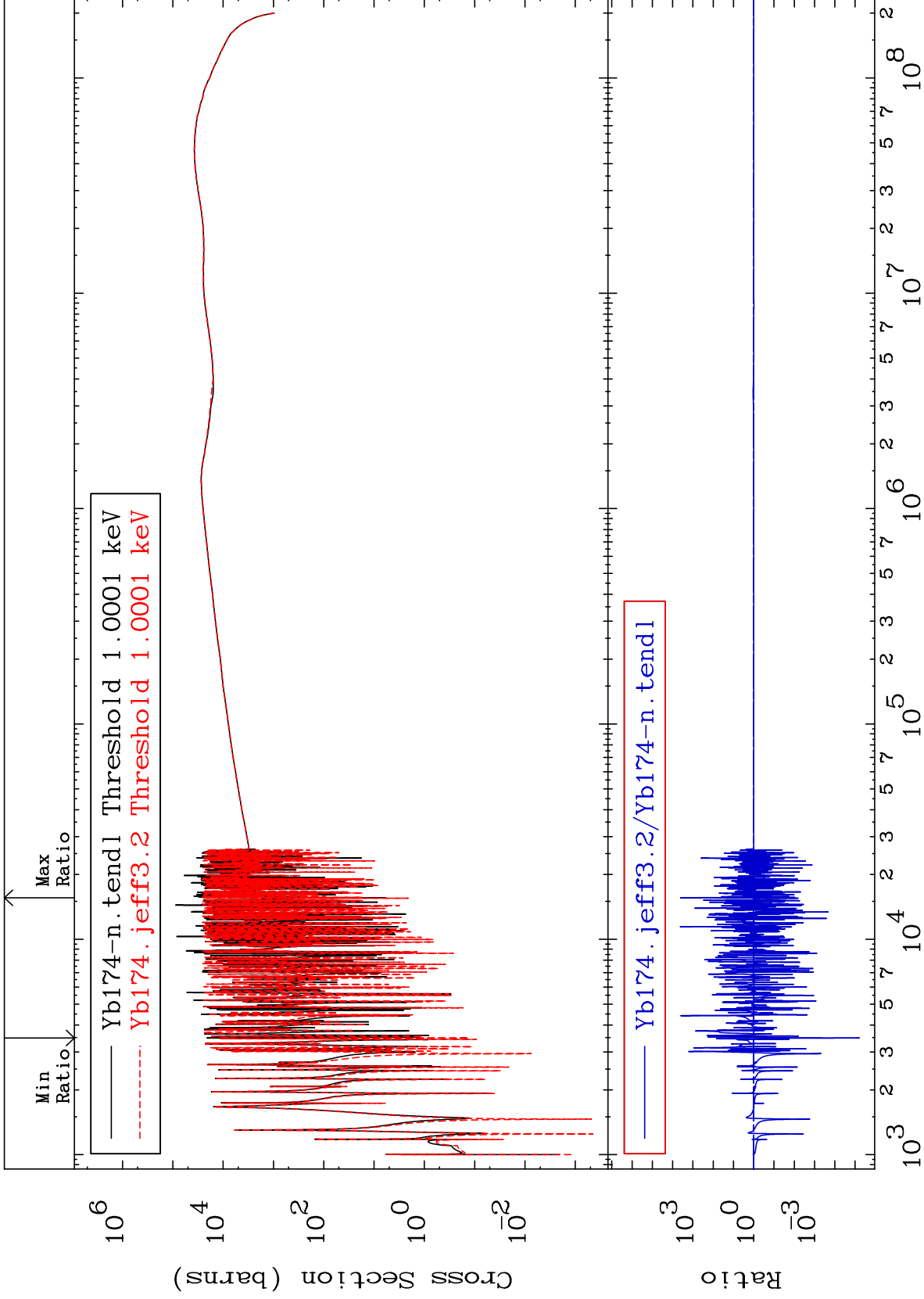
Incident Energy (eV)

70-Yb-174

MAT 7043

Dpa elastic (mt2)
Cross Section

70-Yb-174
-100.0 To 9999. %



71

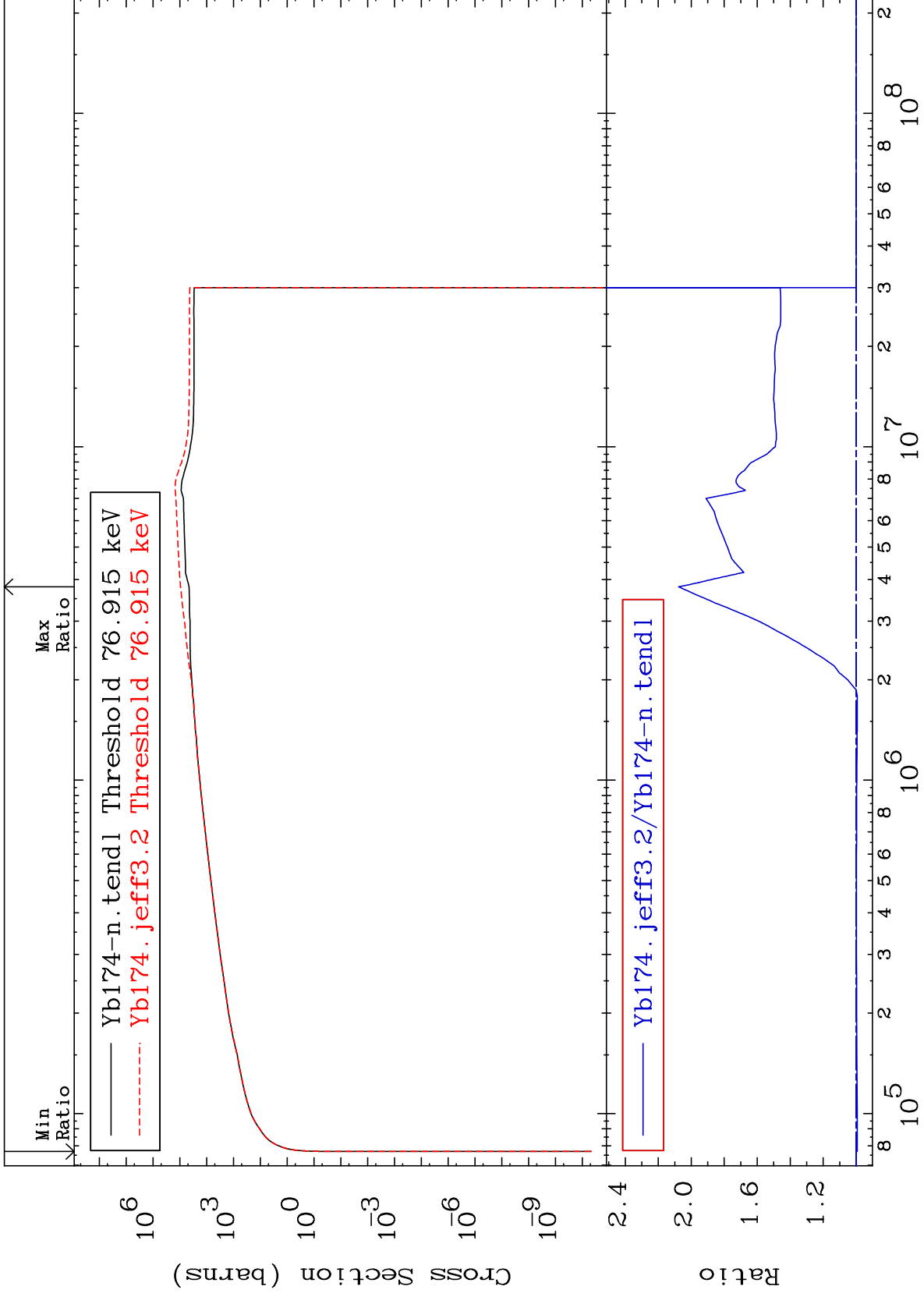
Incident Energy (eV)

70-Yb-174

MAT 7043

Dpa inelastic (mt51-91)
Cross Section

70-Yb-174
-0.650 To 107.6 %



72

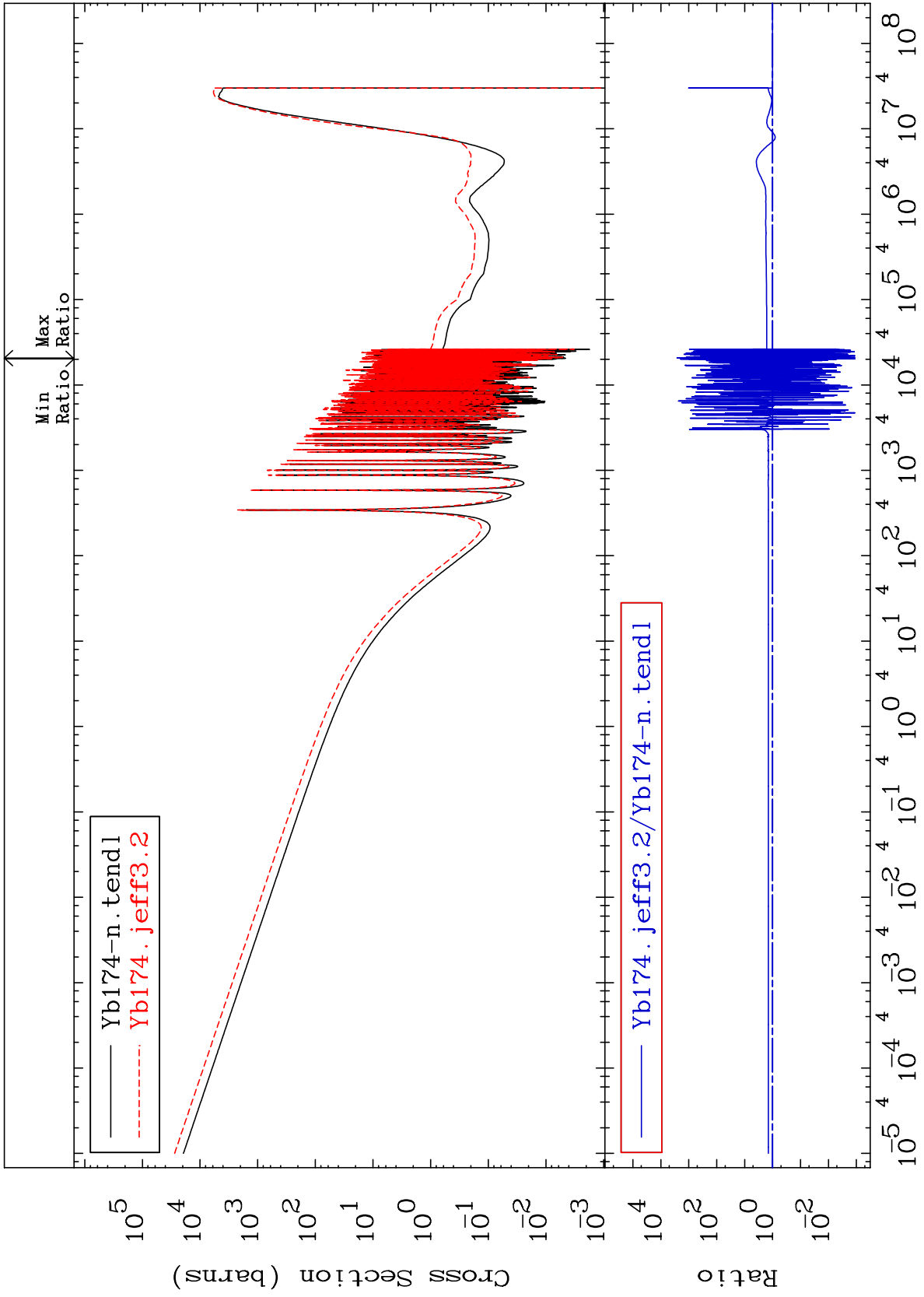
Incident Energy (eV)

70-Yb-174

MAT 7043

Dpa disappearance (mt102 -120)
Cross Section

70-Yb-174
-99.89 To 9999. %

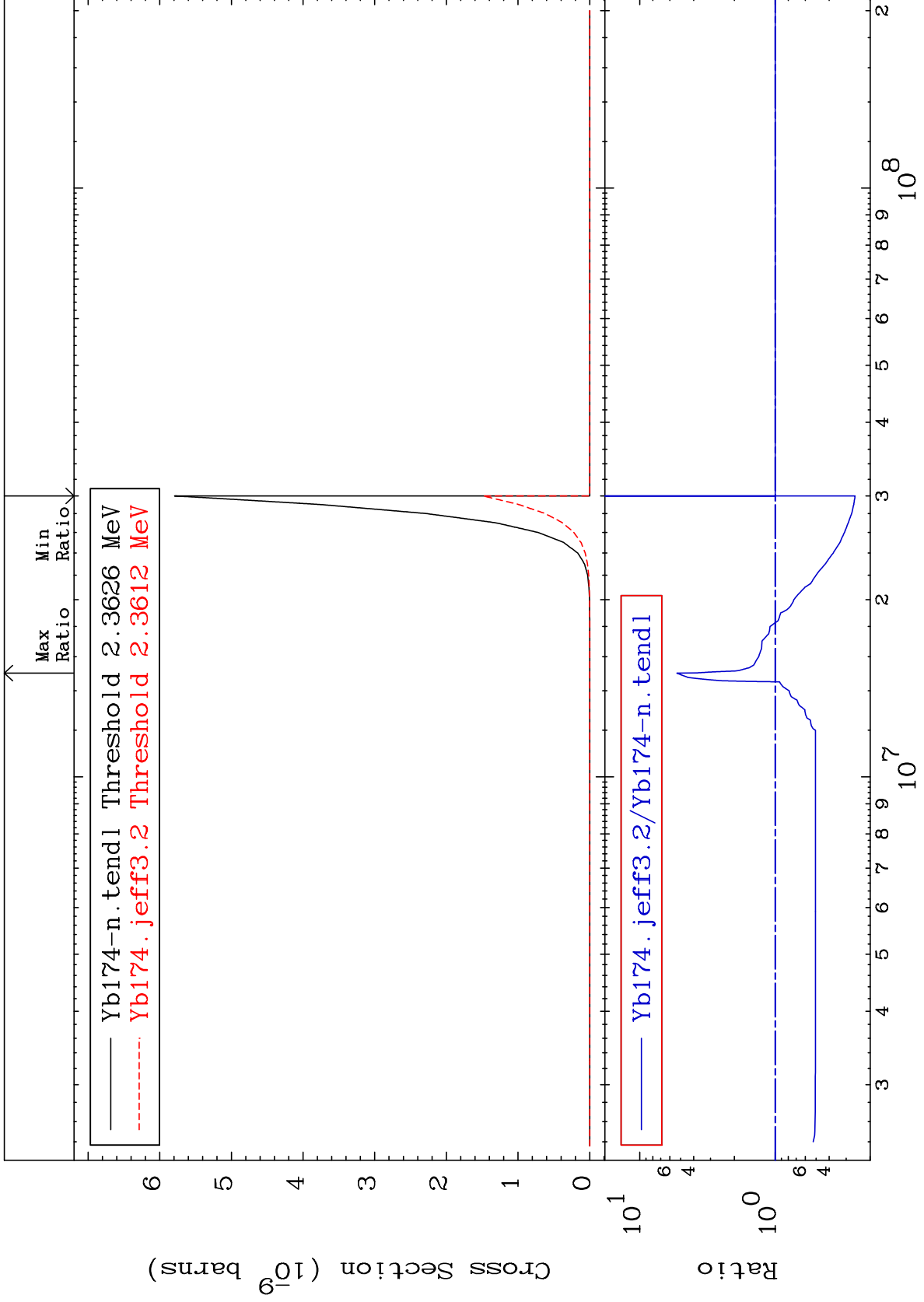


MAT 7043

(n, p) α : 67-Ho-170g

70-Yb-174

Radionuclide Production Cross Section -74.27 To 431.4 %



74

Incident Energy (eV)

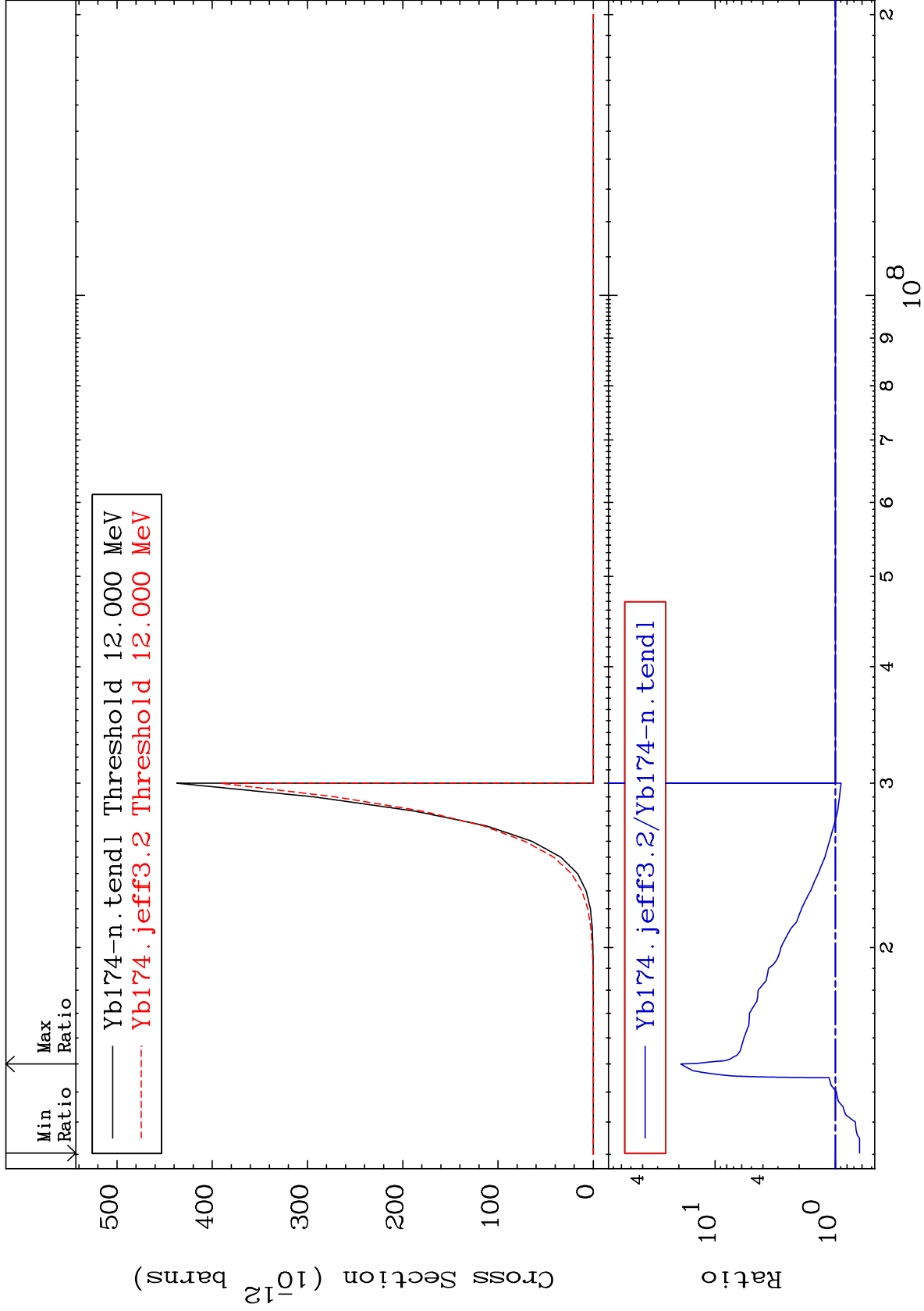
70-Yb-174

MAT 7043

(n, p) α :67-Ho-170m1

70-Yb-174

Radionuclide Production Cross Section -37.07 To 1826. %



75

Incident Energy (eV)

70-Yb-174