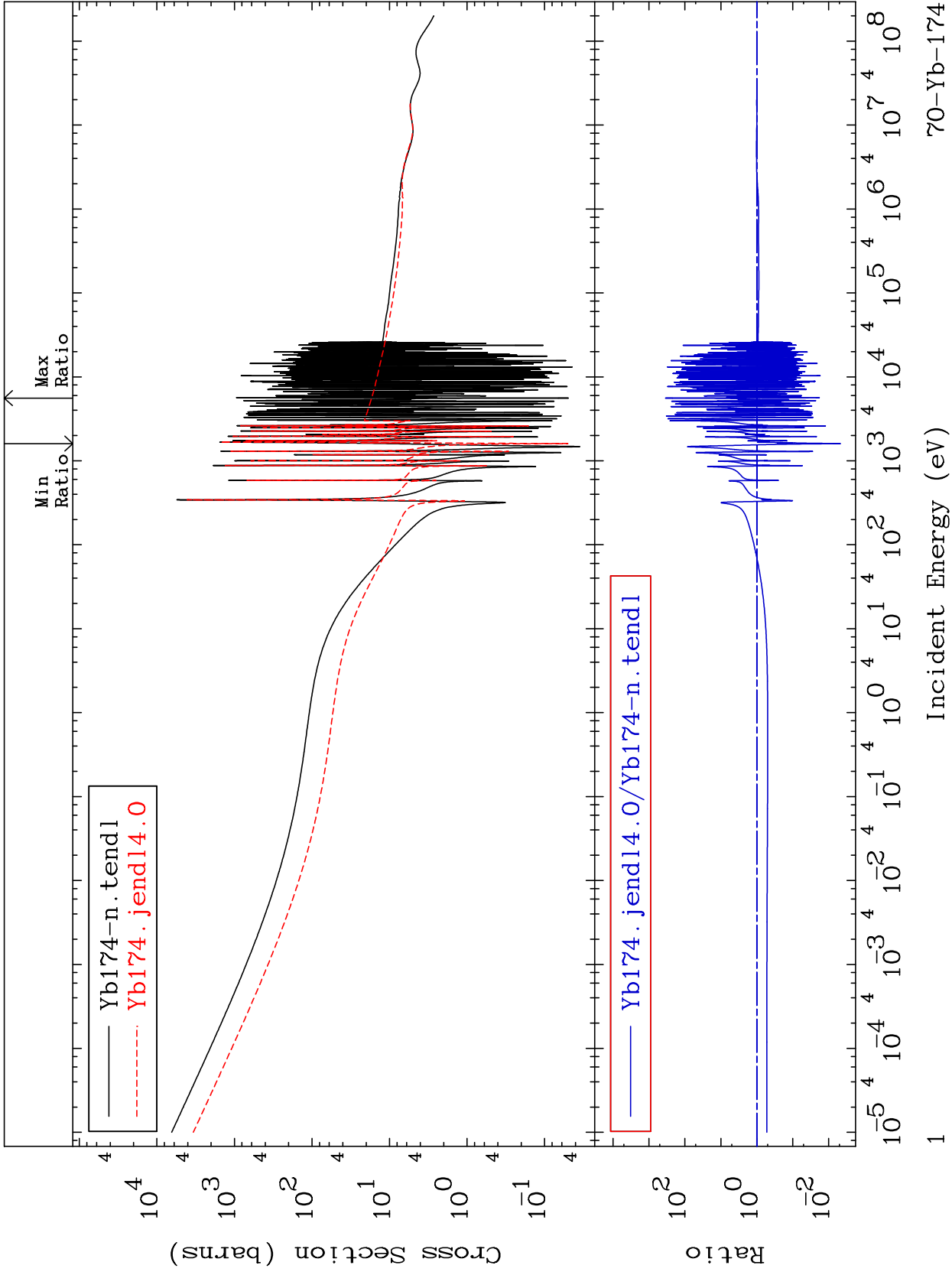


MAT 7043

Total Cross Section  
70-Yb-174  
-99.54 To 9999. %



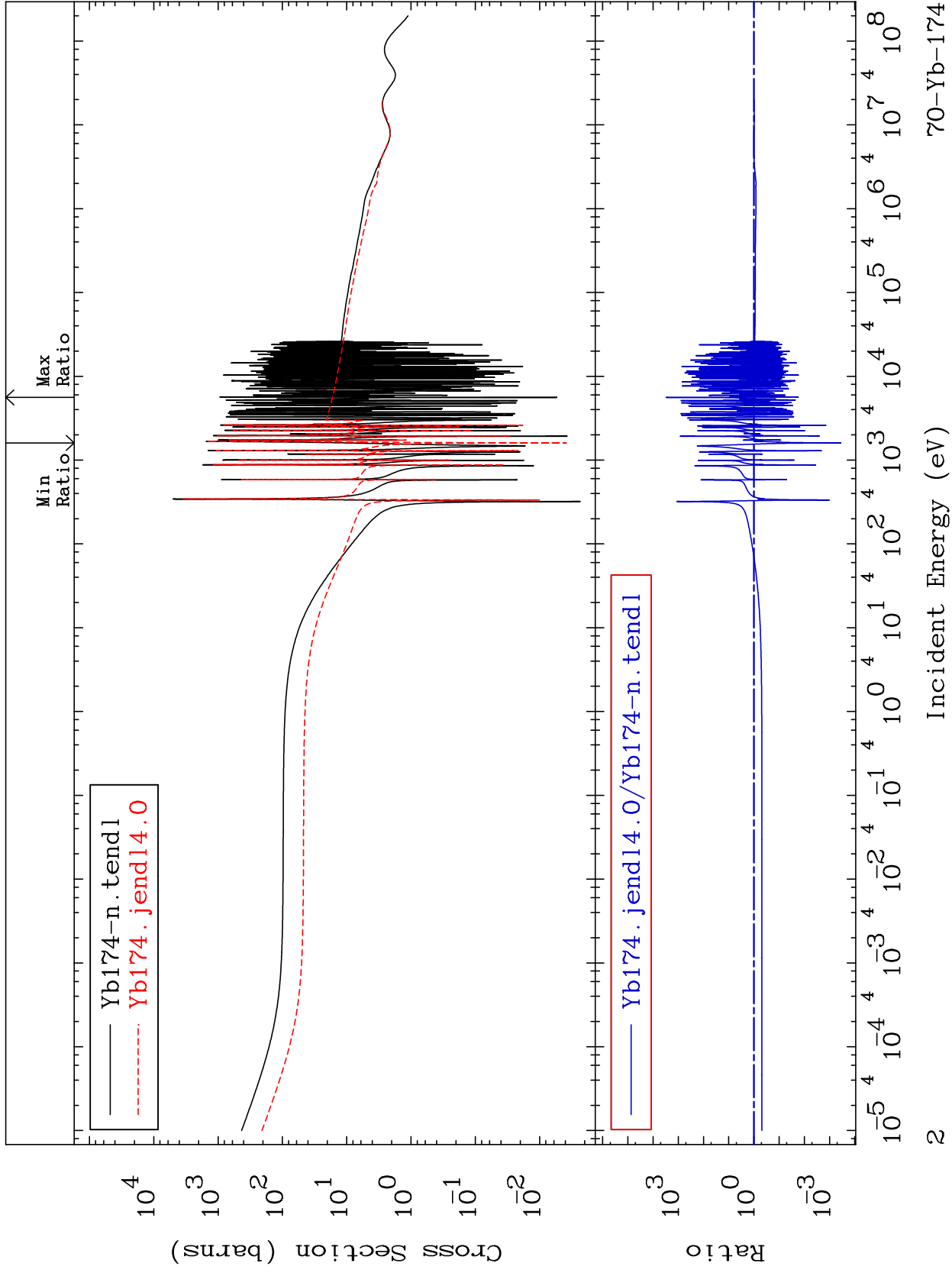
70-Yb-174

Incident Energy (eV)

MAT 7043

Elastic  
Cross Section

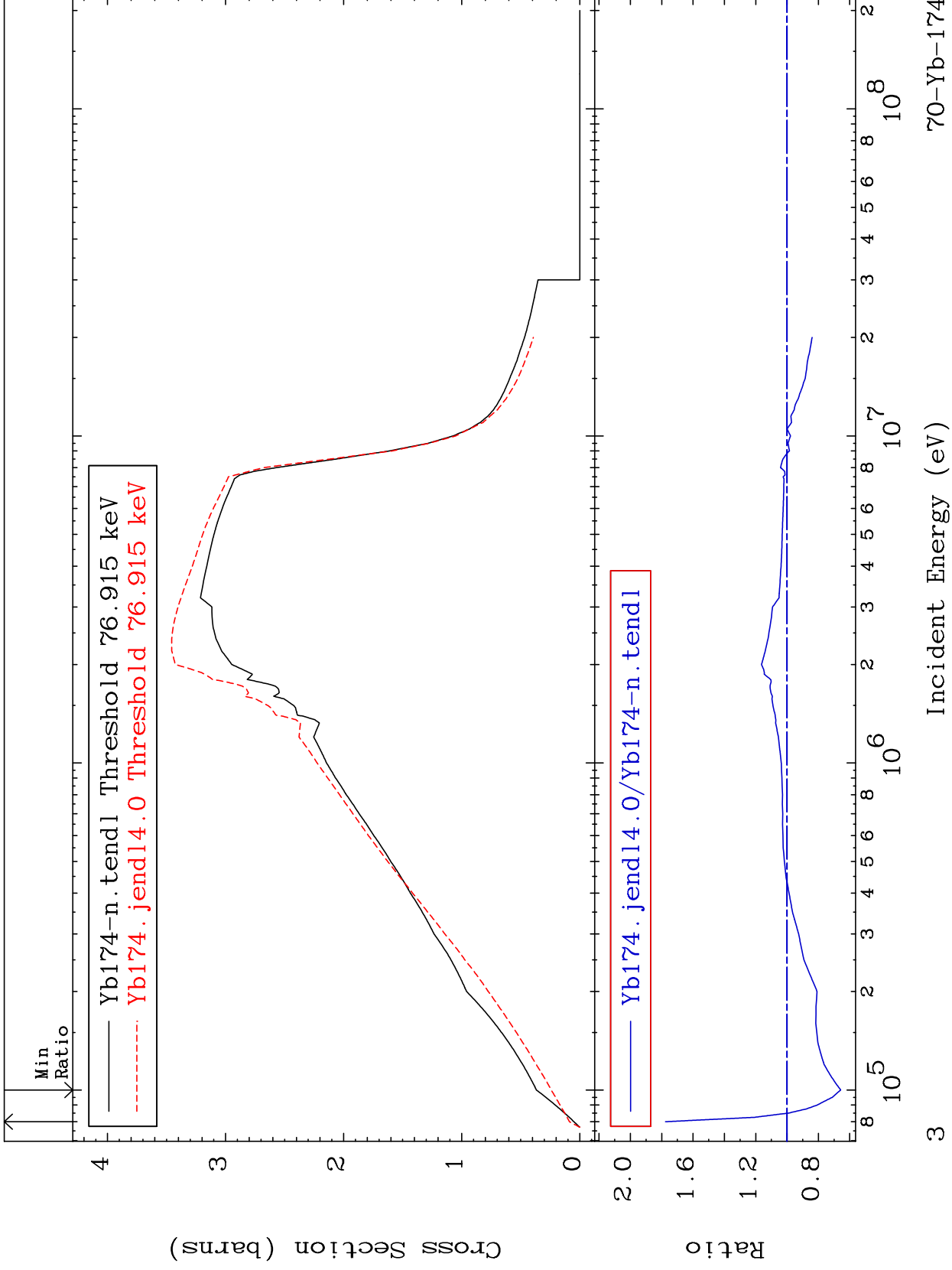
70-Yb-174  
-99.96 To 9999. %



MAT 7043

Inelastic  
Cross Section

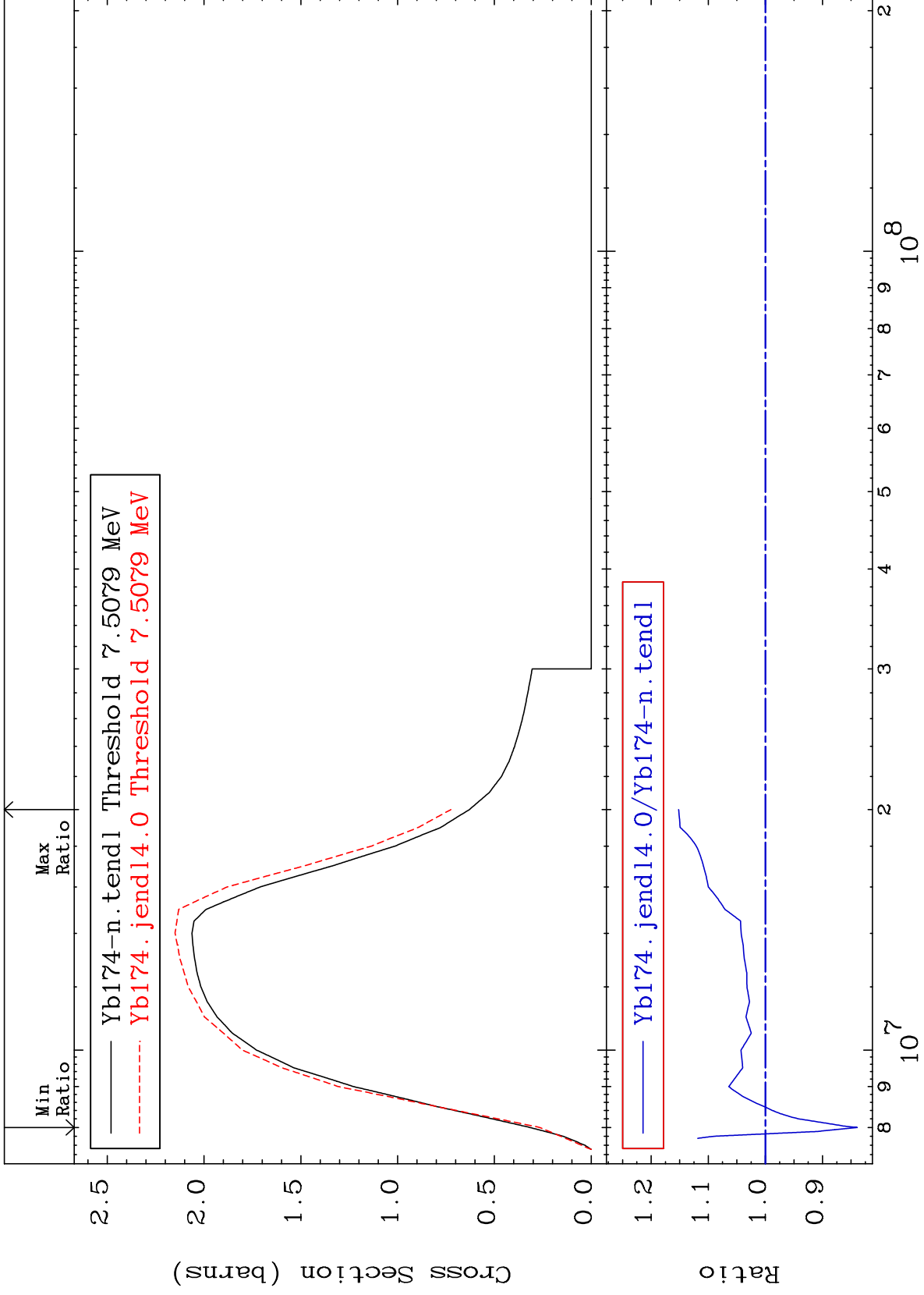
70-Yb-174  
-34.22 To 77.58 %



MAT 7043

(n,2n)  
Cross Section

<sup>70</sup>Yb-174  
-16.08 To 15.19 %



4

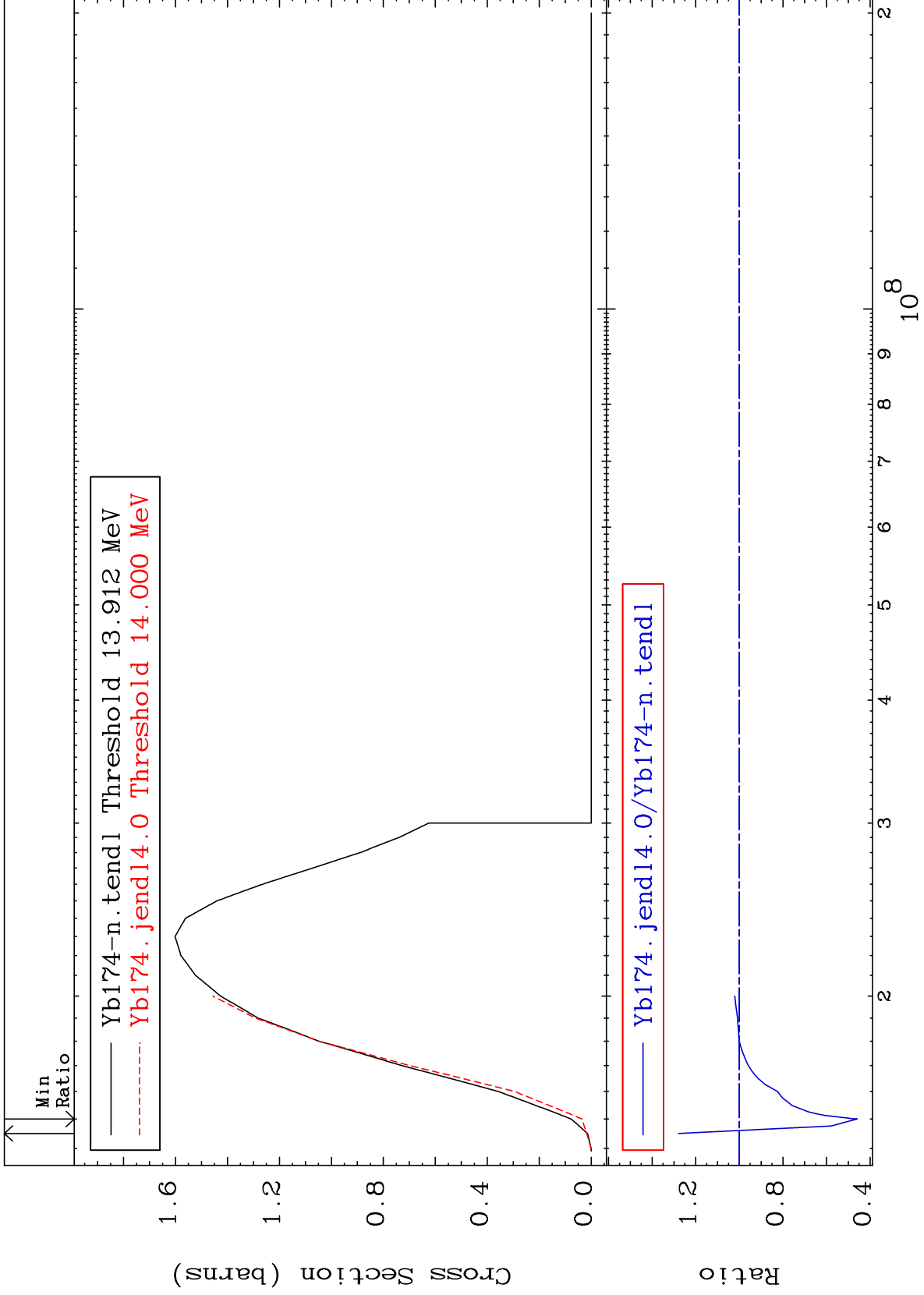
Incident Energy (eV)

<sup>70</sup>Yb-174

MAT 7043

(n,3n)  
Cross Section

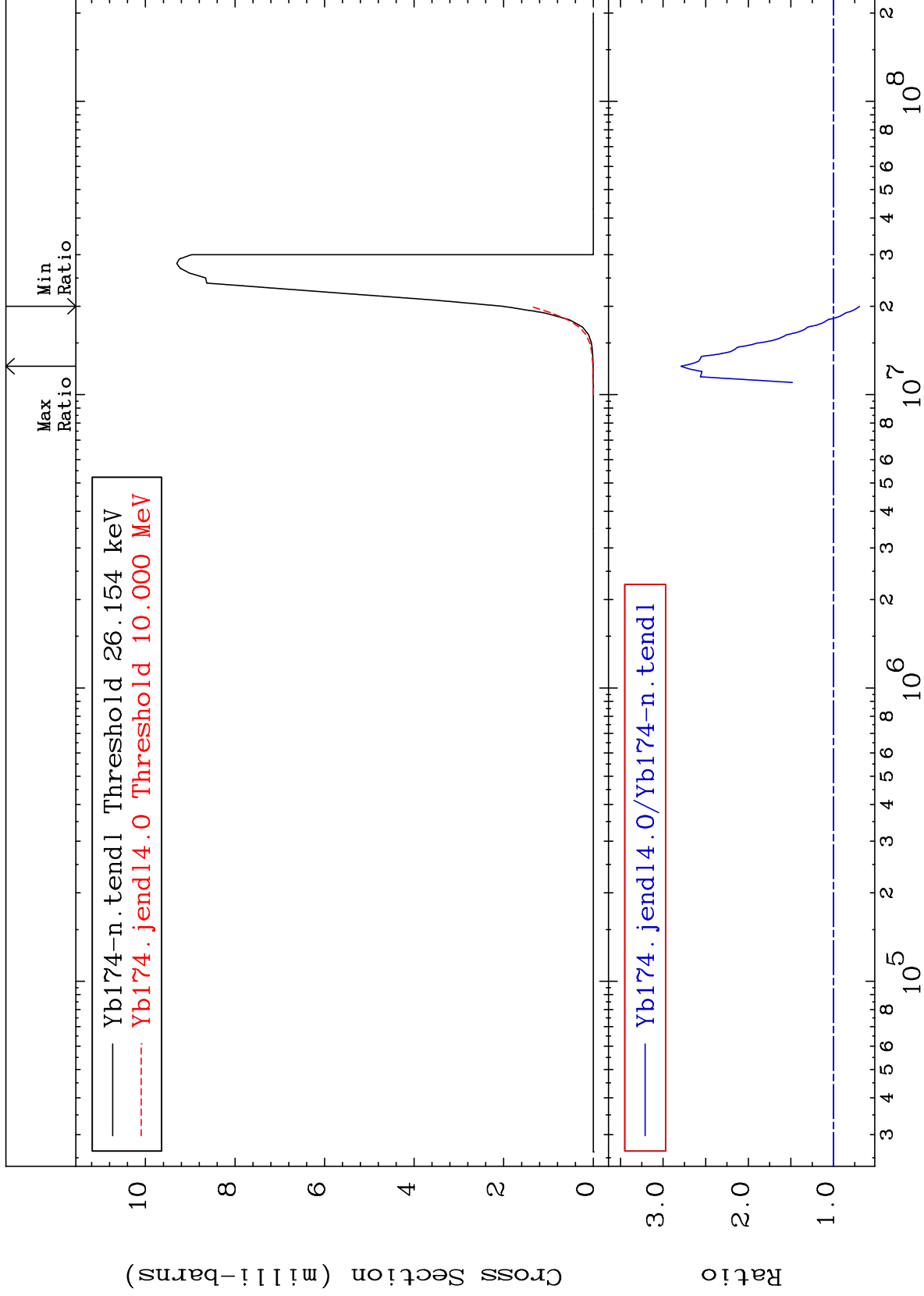
70-Yb-174  
-54.12 To 27.85 %



MAT 7043

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

70-Yb-174  
-30.54 To 179.3 %



6

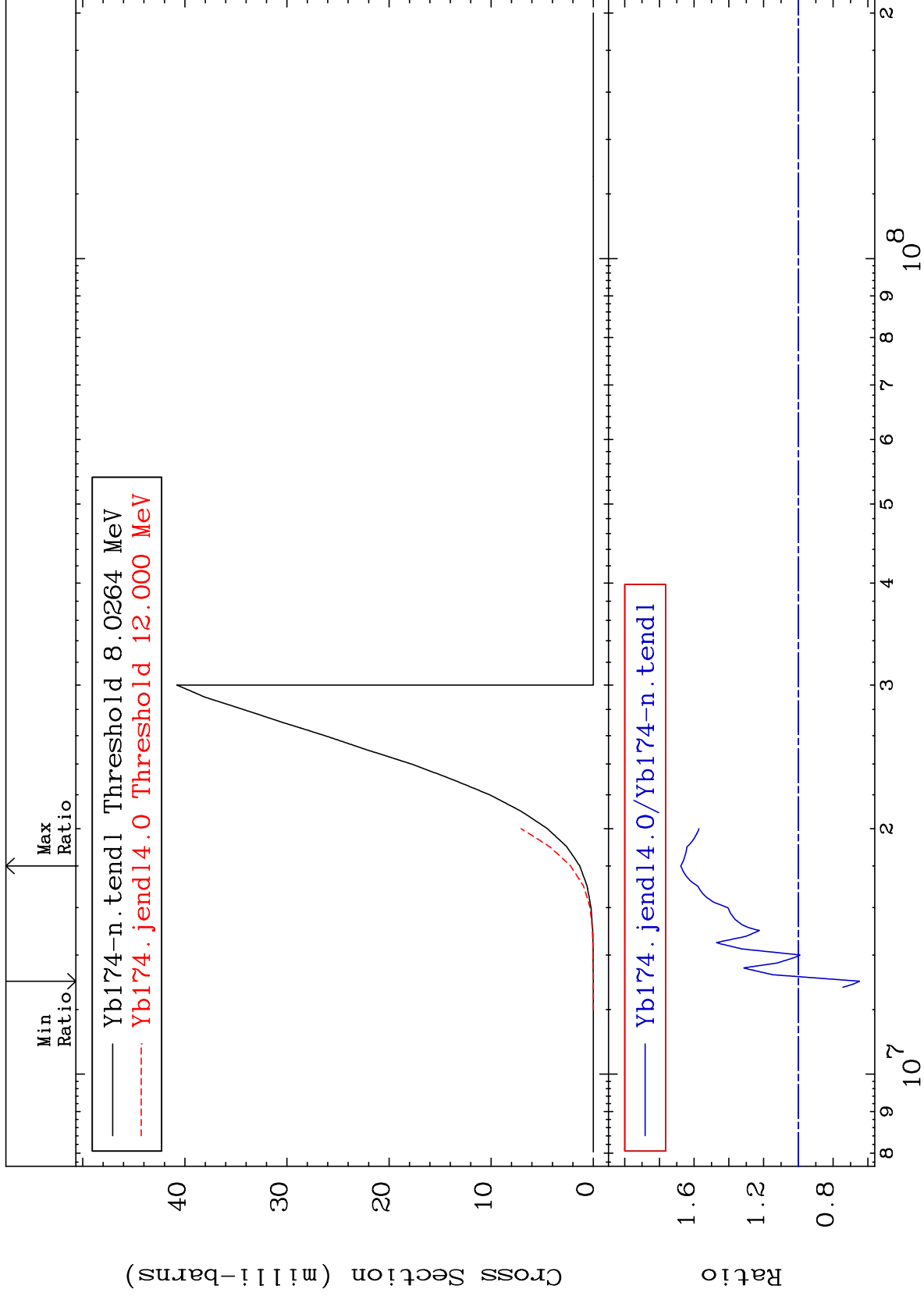
Incident Energy (eV)

70-Yb-174

MAT 7043

(n,n') p  
Cross Section

70-Yb-174  
-35.21 To 67.70 %



7

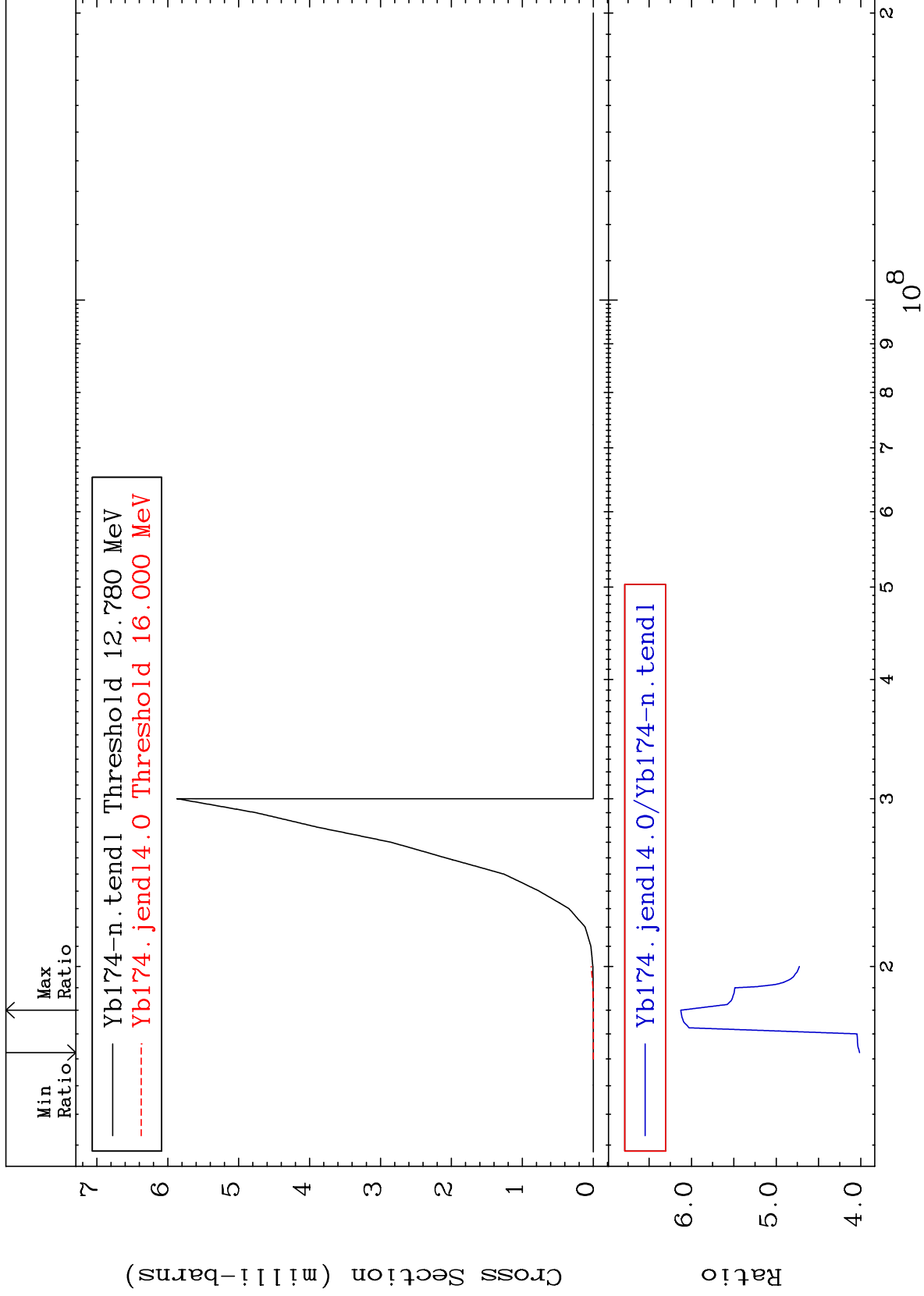
Incident Energy (eV)

70-Yb-174

MAT 7043

(n, n') d  
Cross Section

70-Yb-174  
301.6 To 512.7 %

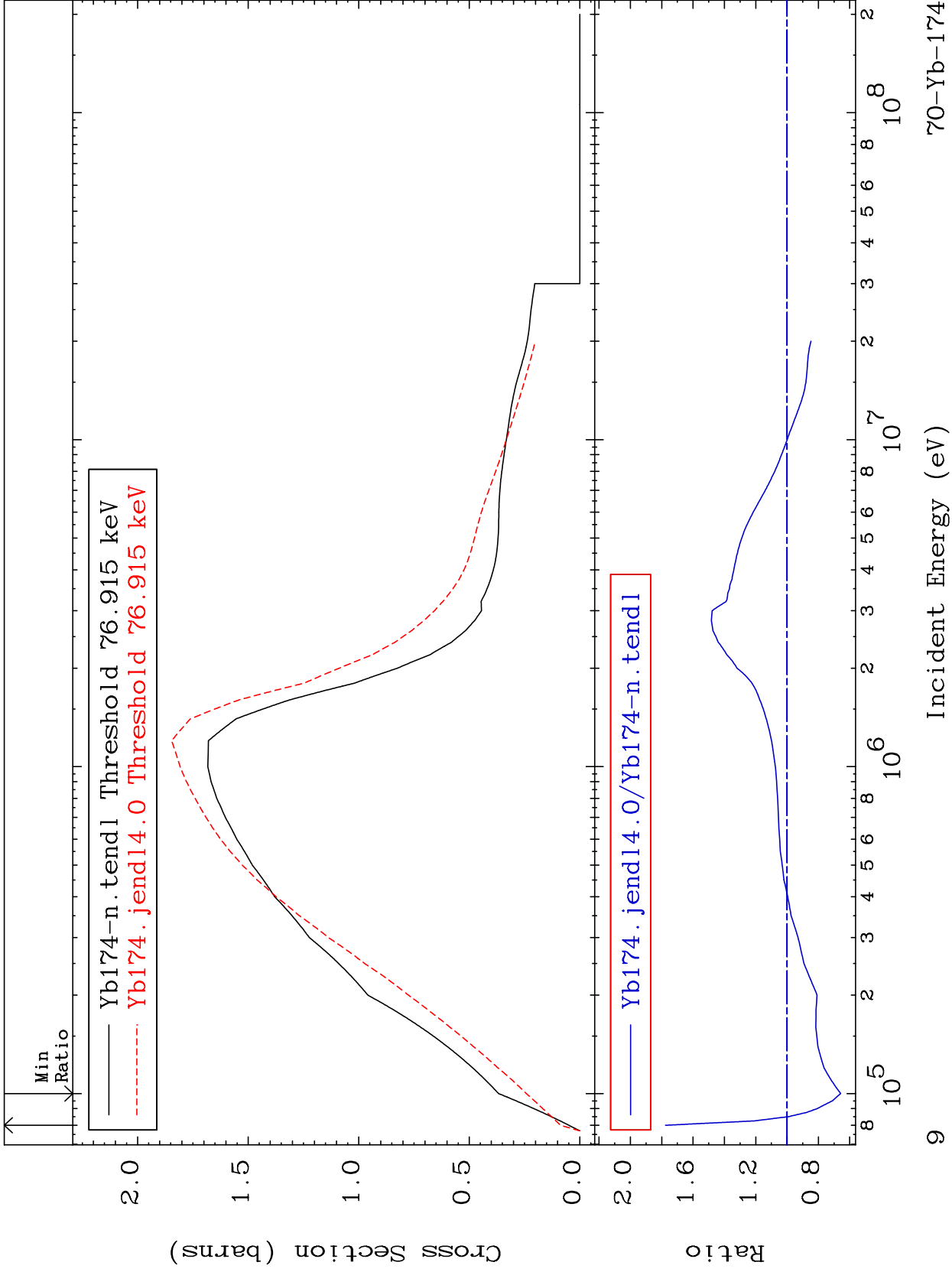




MAT 7043

76.47 keV (n,n') Level  
Cross Section

70-Yb-174  
-34.22 To 77.58 %



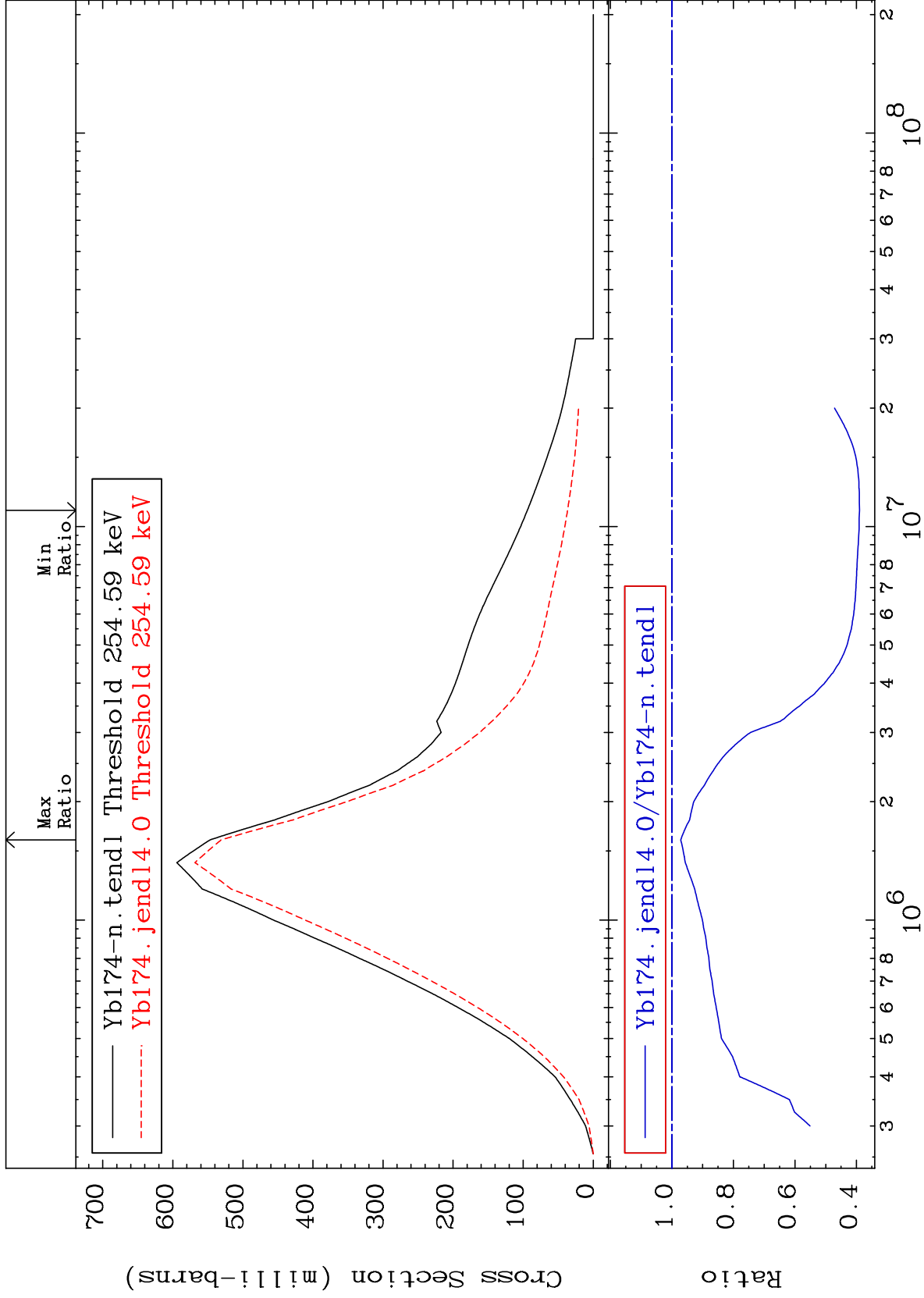
MAT 7043

253.1 keV (n,n') Level

70-Yb-174

-60.99 To -2.882%

Cross Section



10

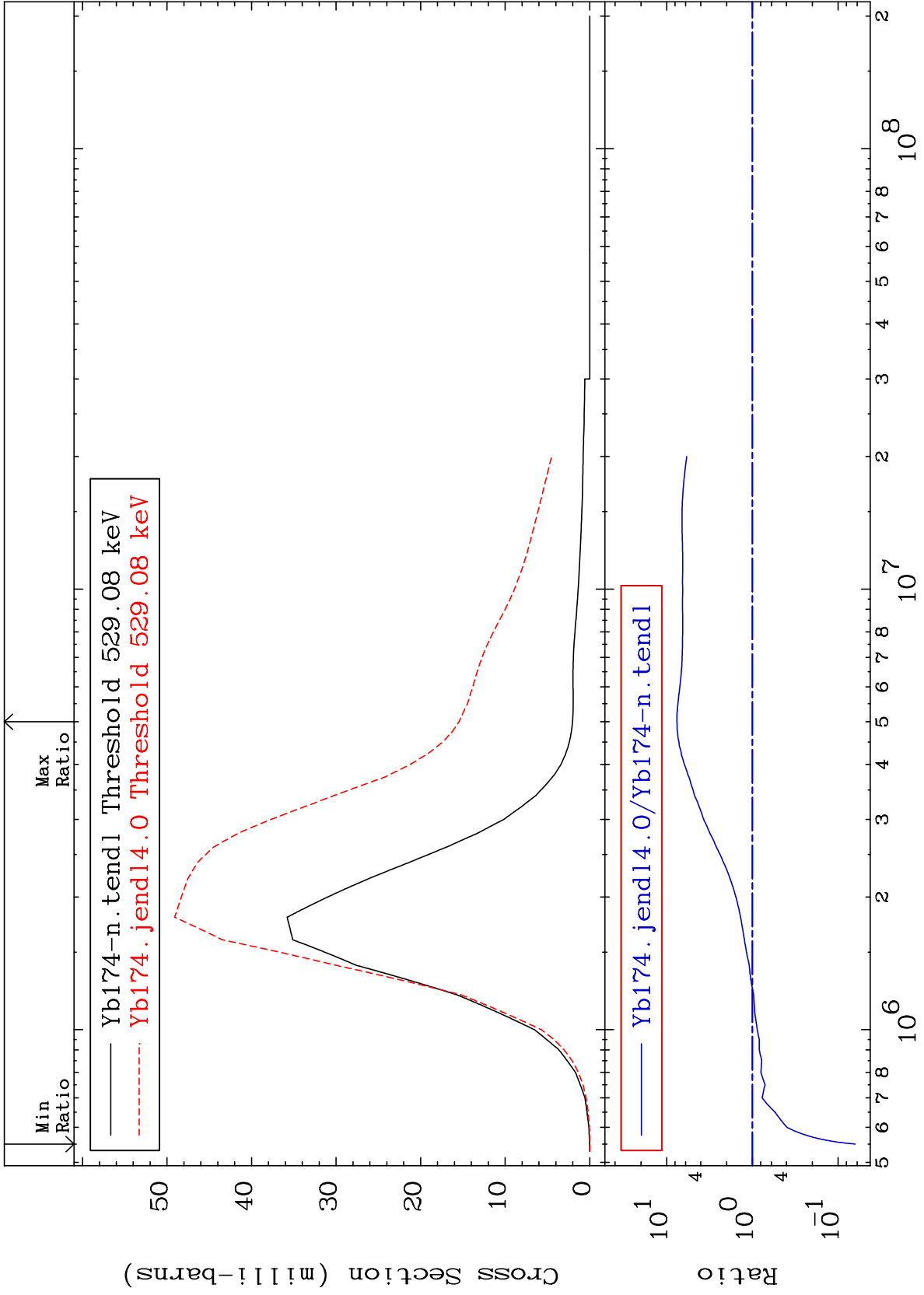
Incident Energy (eV)

70-Yb-174

MAT 7043

526.0 keV (n,n') Level  
Cross Section

70-Yb-174  
-93.67 To 659.4 %



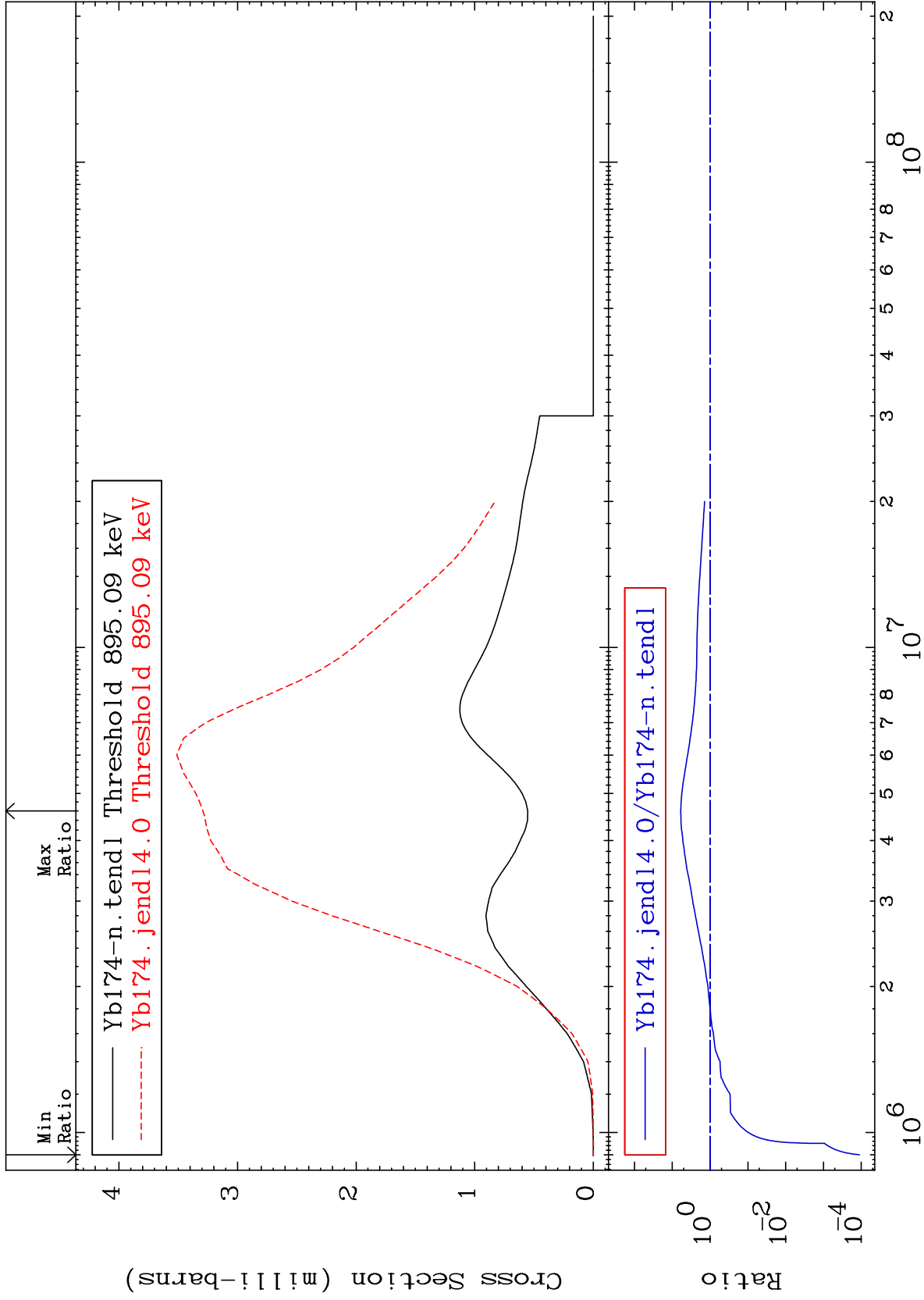
MAT 7043

889.9 keV (n,n') Level

70-Yb-174

Cross Section

-99.99 To 495.8 %



12

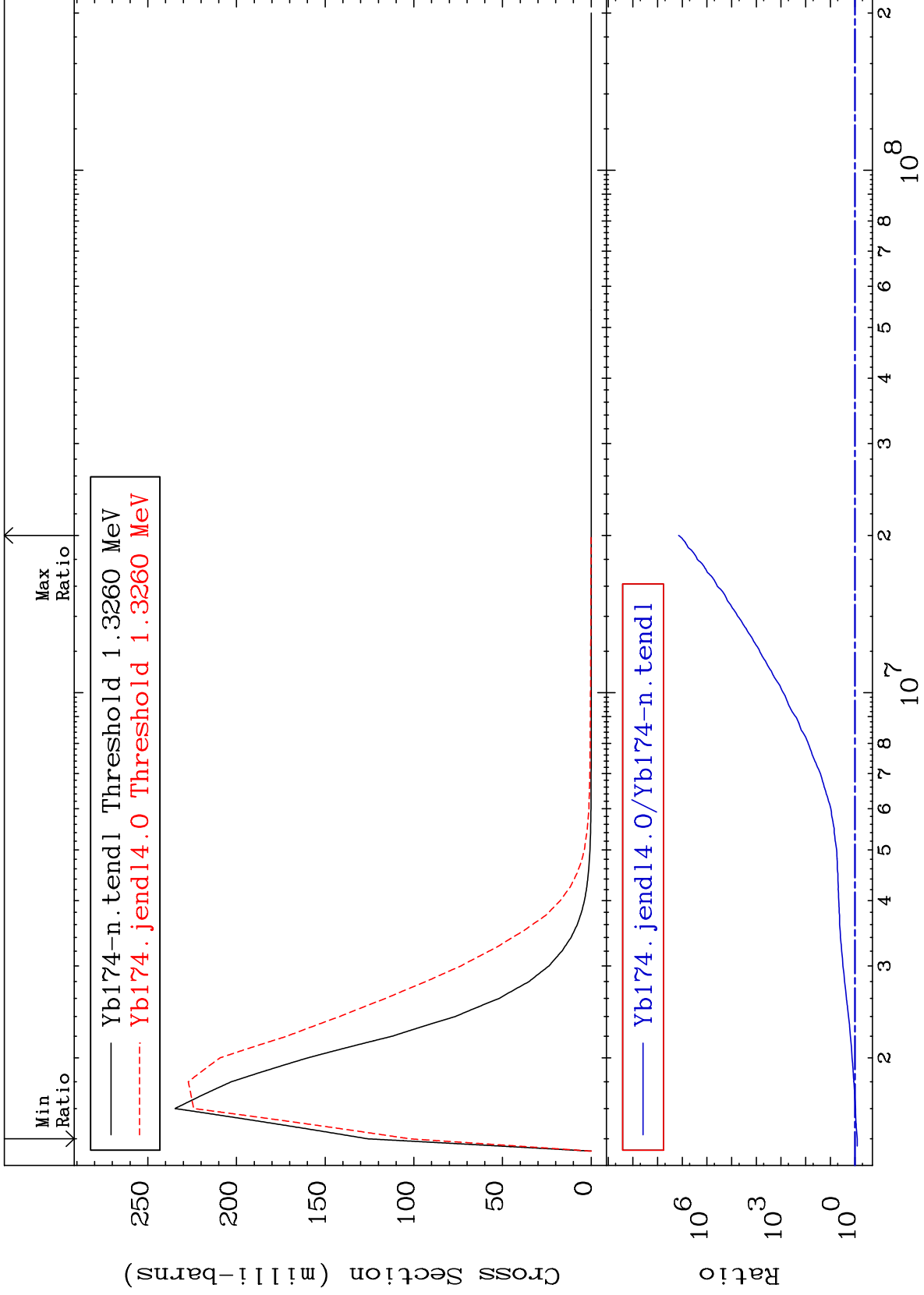
Incident Energy (eV)

70-Yb-174

MAT 7043

1.318 MeV (n,n') Level  
Cross Section

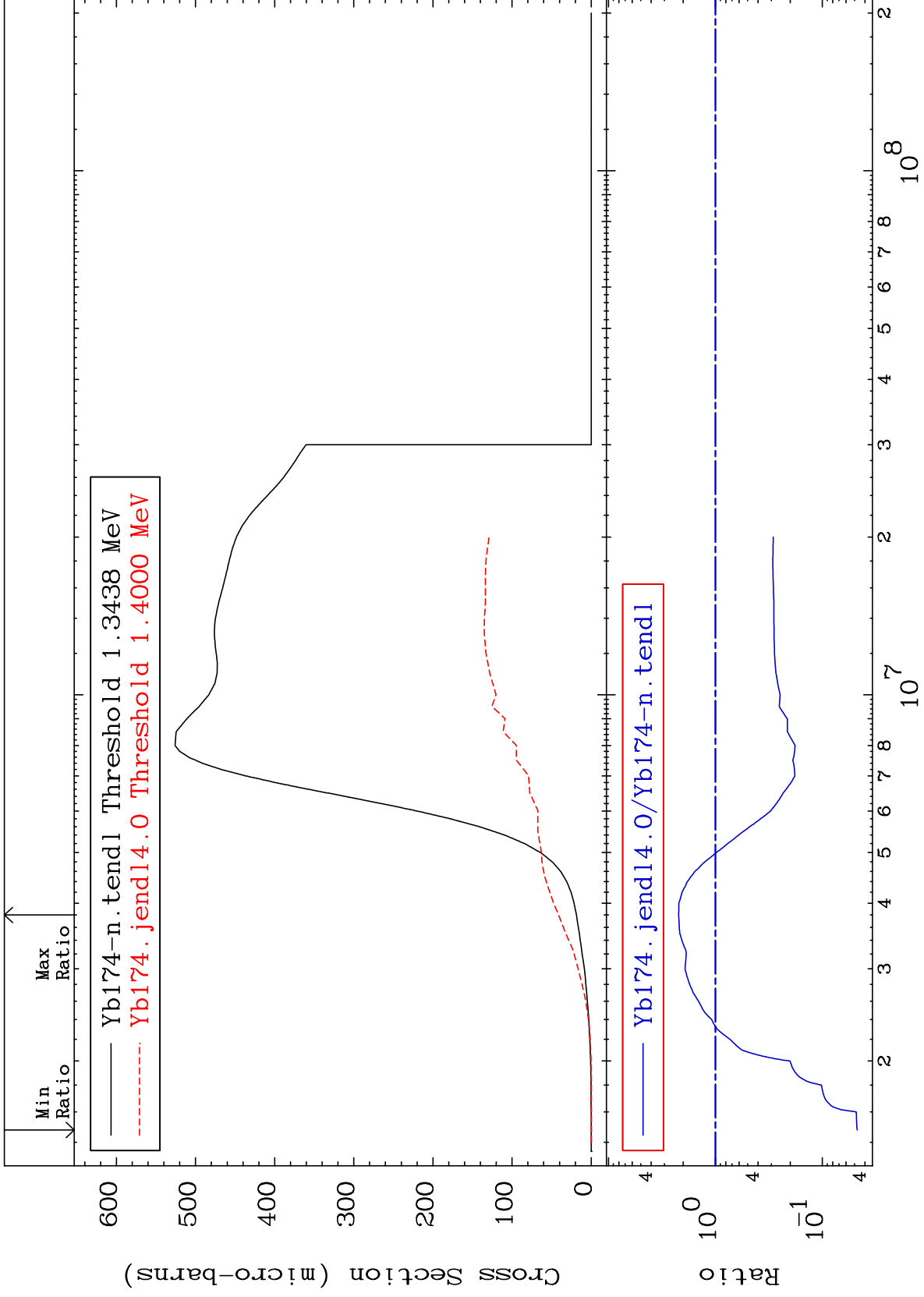
70-Yb-174  
-18.82 To 9999. %



MAT 7043

1.336 MeV (n,n') Level  
Cross Section

70-Yb-174  
-95.28 To 120.8 %



14

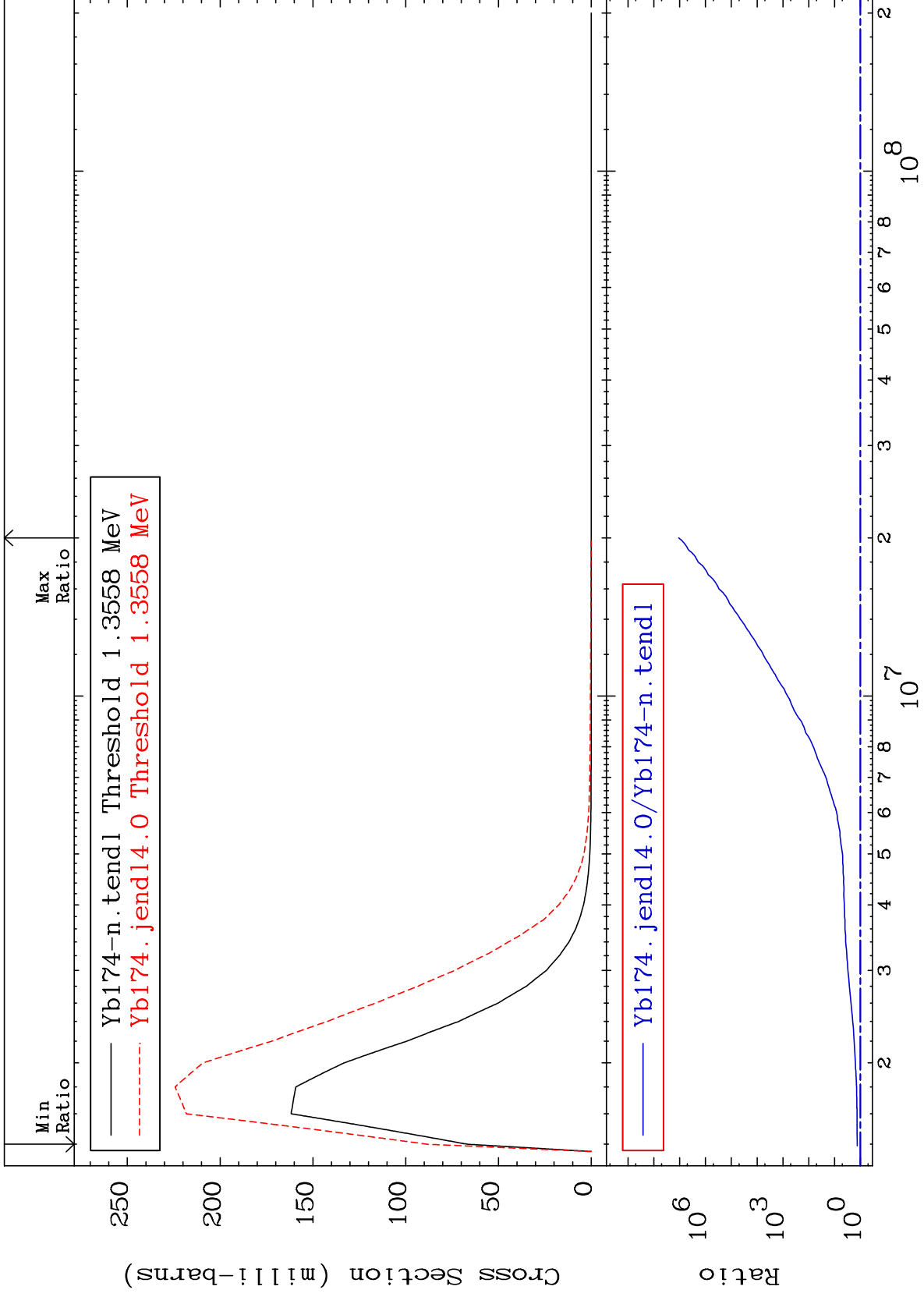
Incident Energy (eV)

70-Yb-174

MAT 7043

1.348 MeV (n,n') Level  
Cross Section

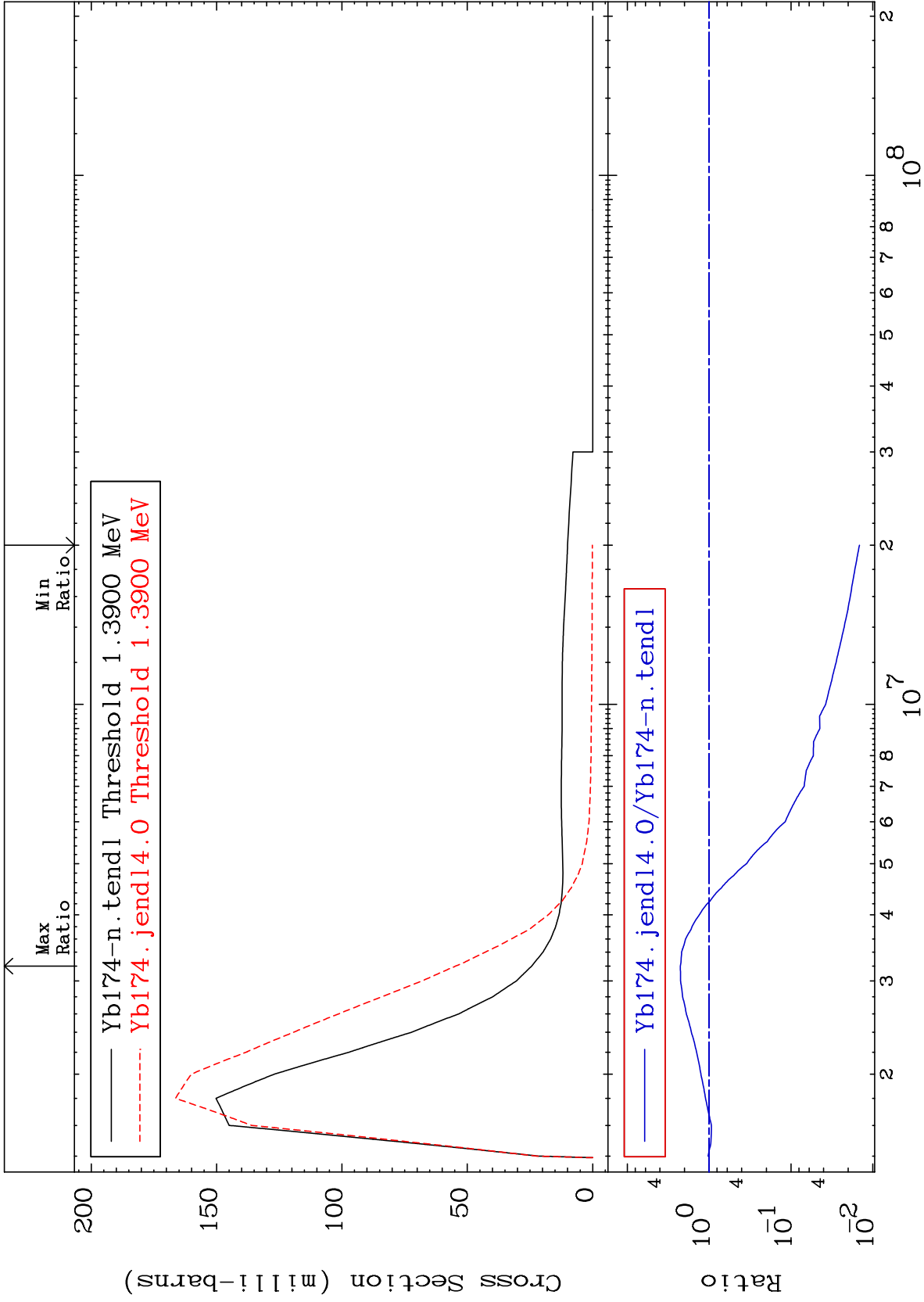
70-Yb-174  
32.24 To 9999. %



MAT 7043

1.382 MeV (n,n') Level  
Cross Section

<sup>70</sup>Yb-174  
-98.54 To 124.6 %

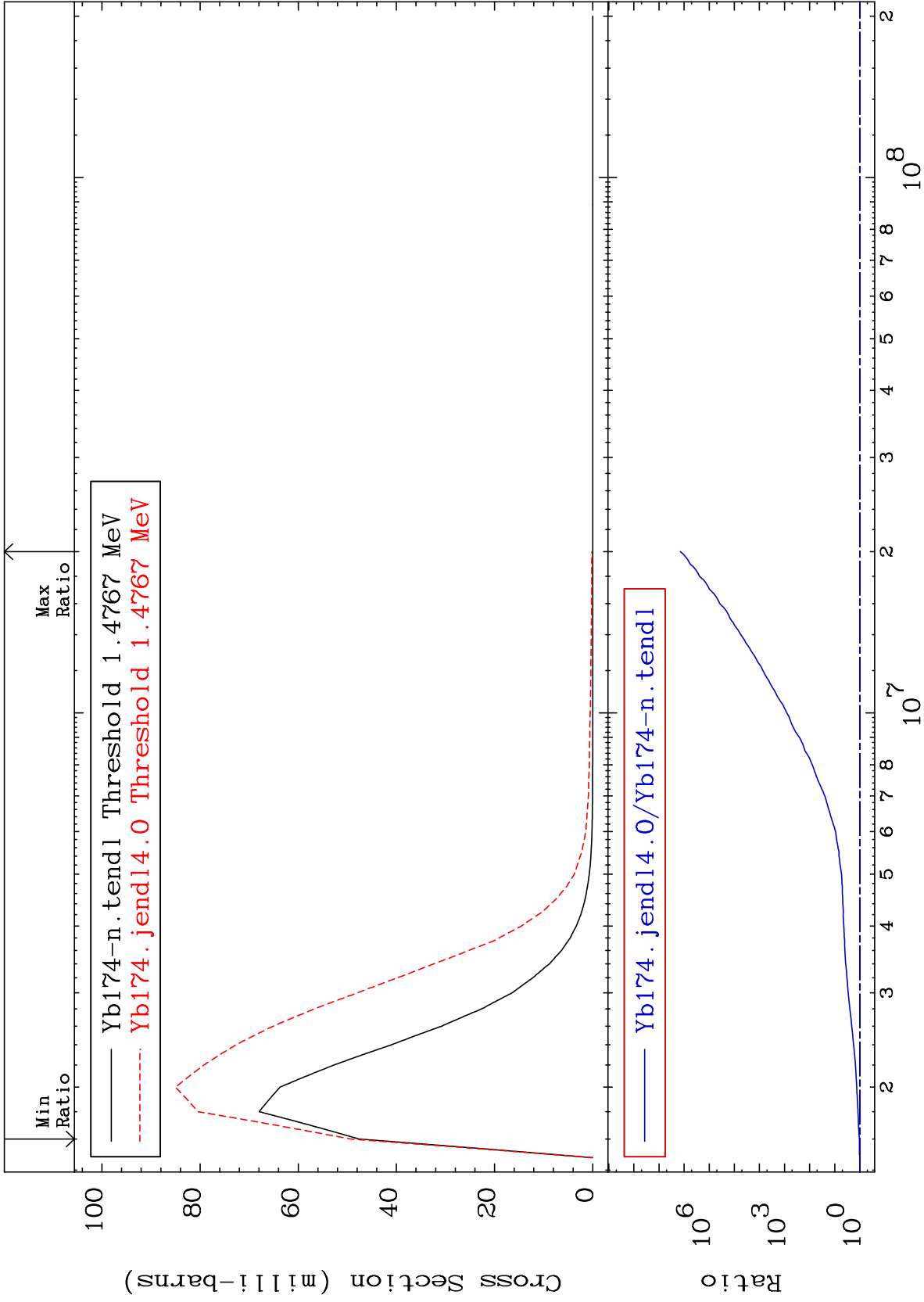




MAT 7043

1.468 MeV (n,n') Level  
Cross Section

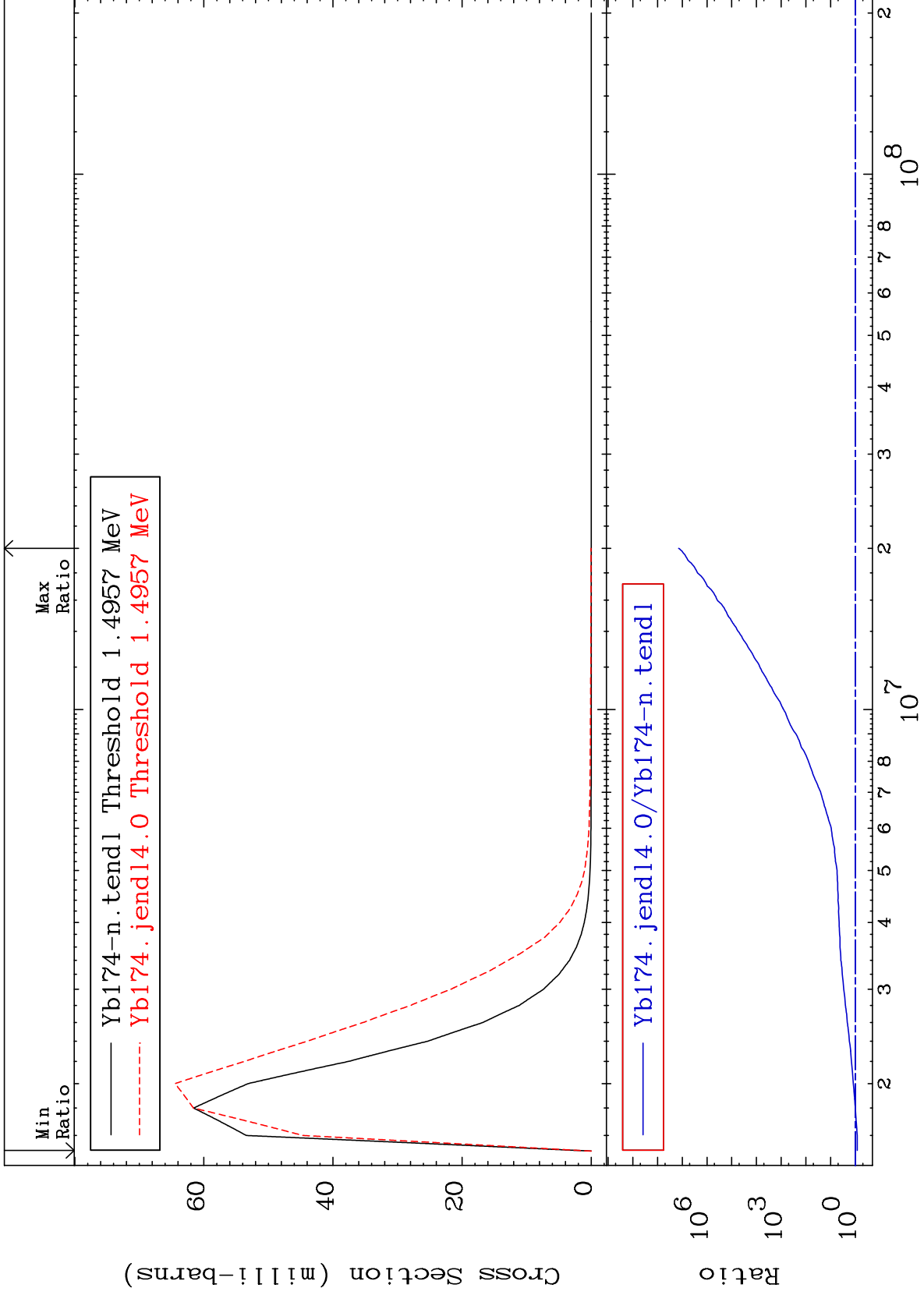
70-Yb-174  
To 9999. %  
3.657



MAT 7043

1.487 MeV (n,n') Level  
Cross Section

70-Yb-174  
-16.41 To 9999. %



18

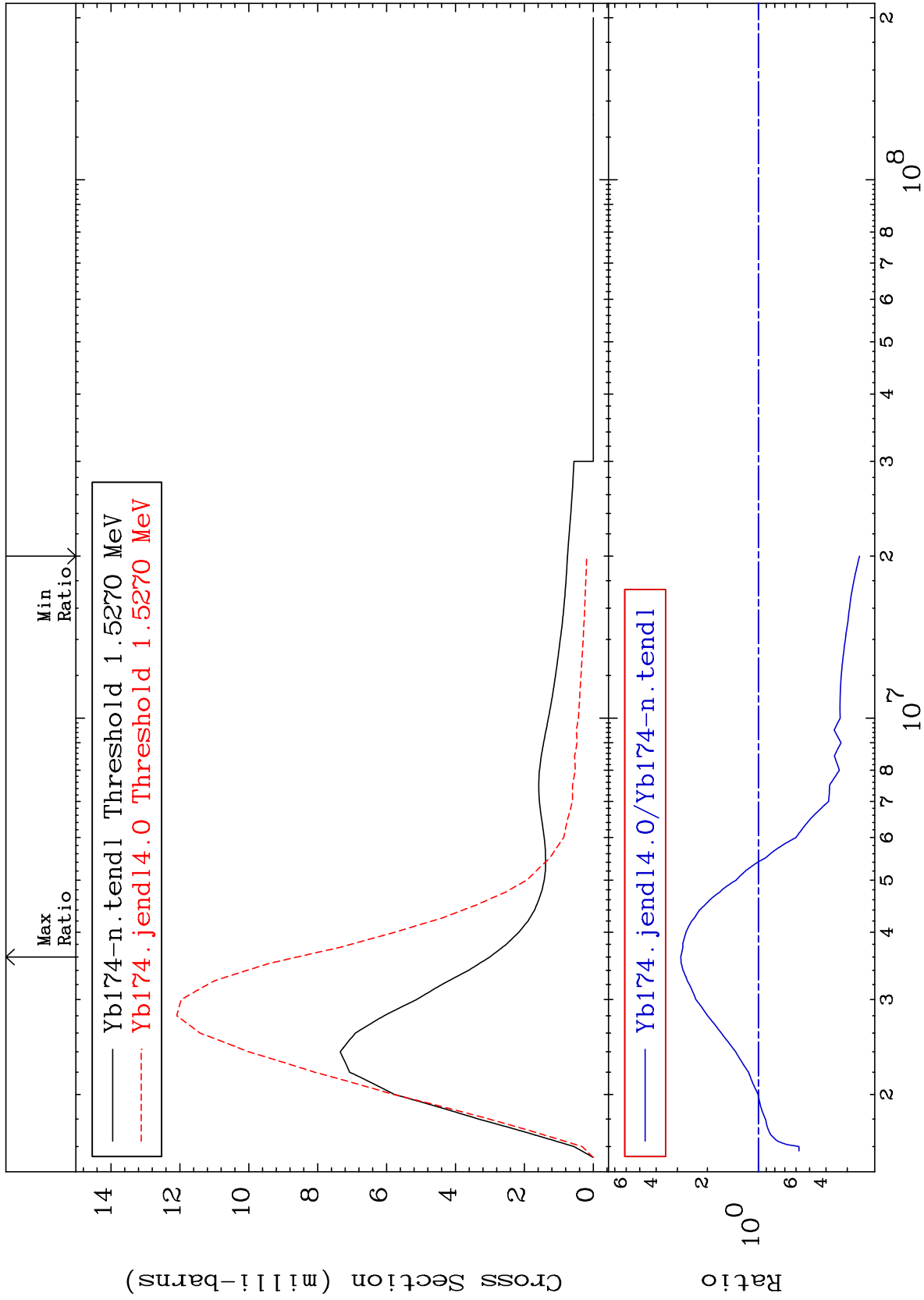
Incident Energy (eV)

70-Yb-174

MAT 7043

1.518 MeV (n,n') Level  
Cross Section

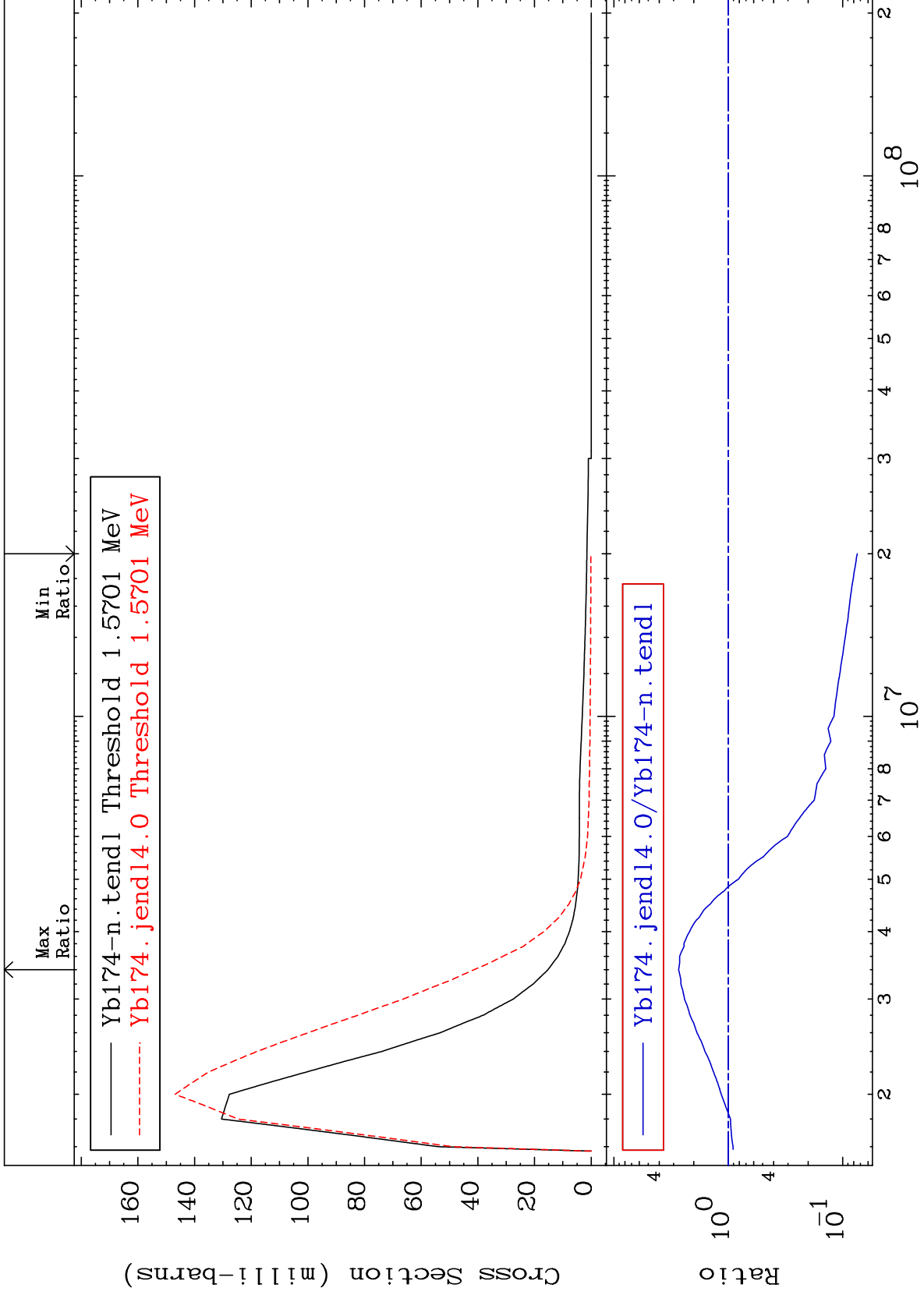
<sup>70</sup>Yb-174  
-74.59 To 186.5 %



MAT 7043

1.561 MeV (n,n') Level  
Cross Section

70-Yb-174  
-92.55 To 171.2 %



20

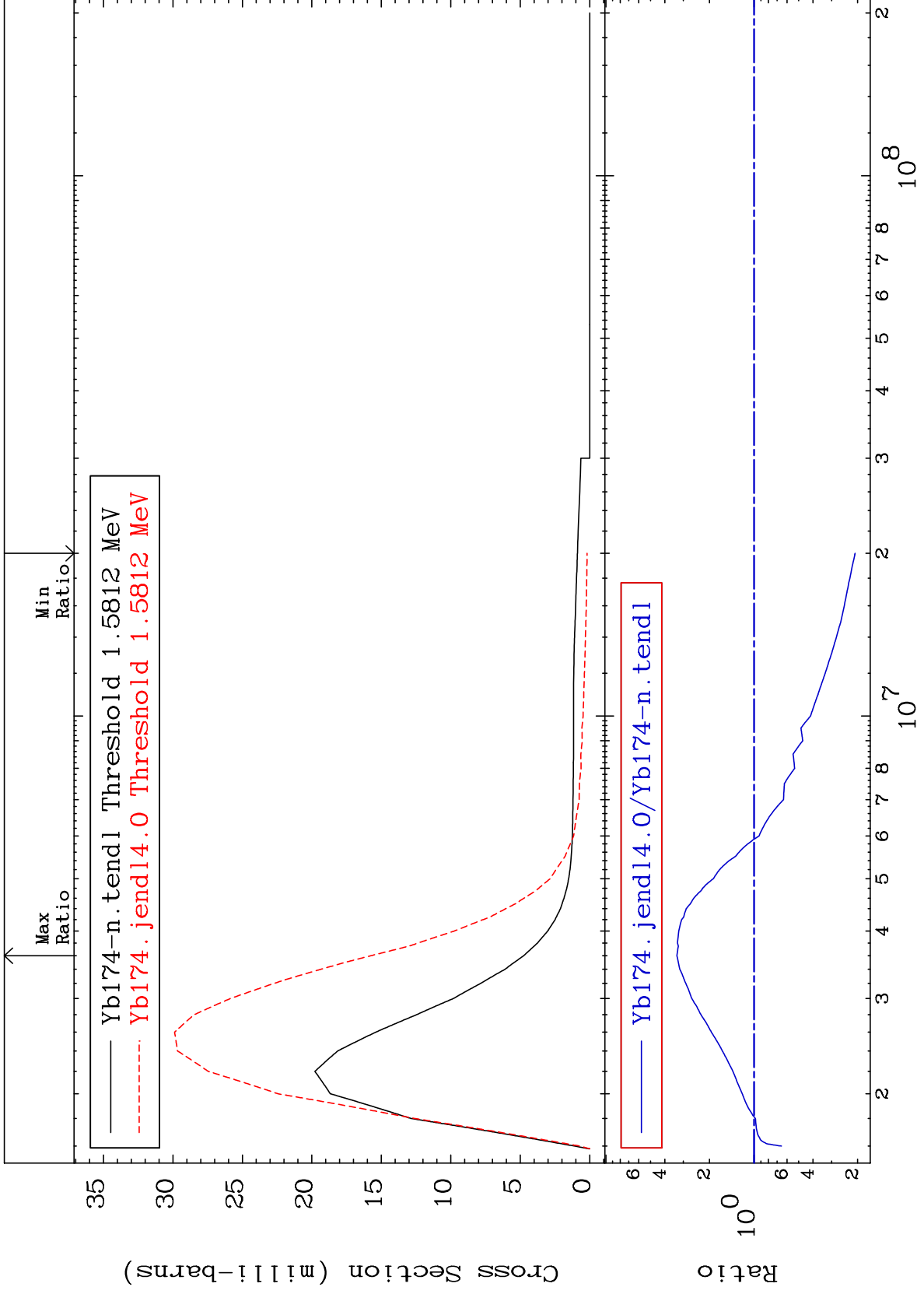
Incident Energy (eV)

70-Yb-174

MAT 7043

1.572 MeV (n,n') Level  
Cross Section

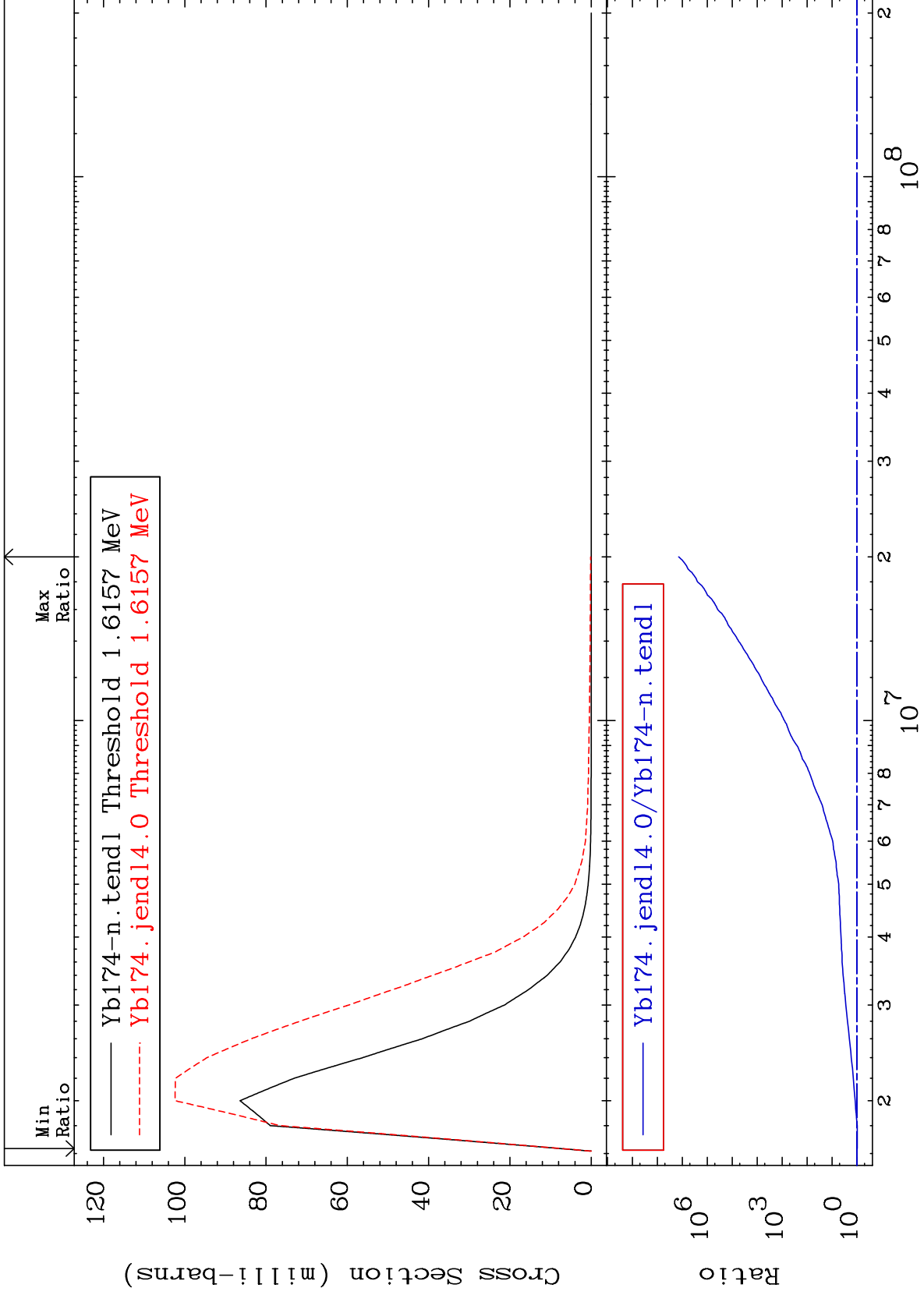
<sup>70</sup>Yb-<sup>174</sup>  
-79.19 To 231.6 %



MAT 7043

1.606 MeV (n,n') Level  
Cross Section

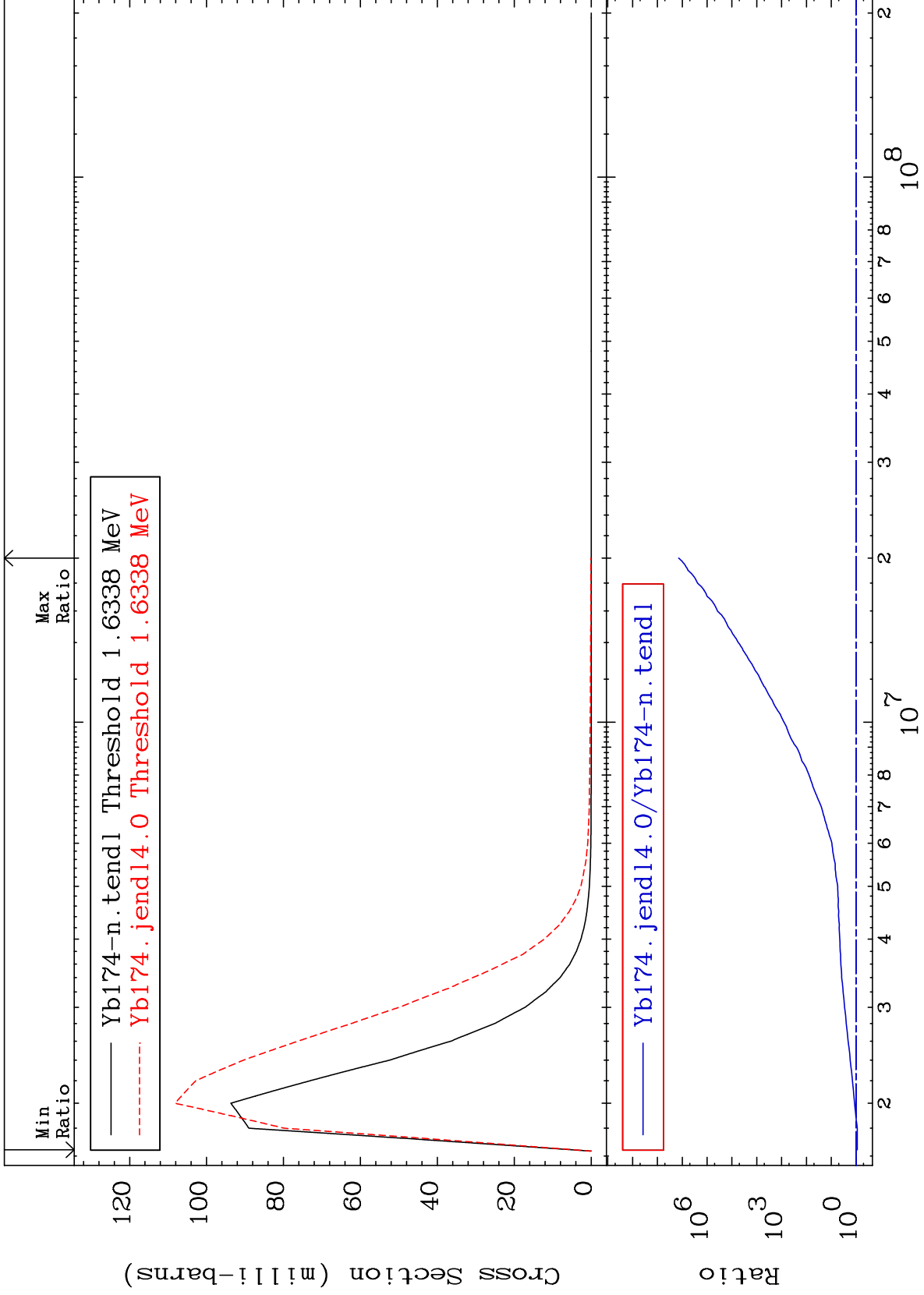
70-Yb-174  
-3.010 To 9999. %



MAT 7043

1.624 MeV (n,n') Level  
Cross Section

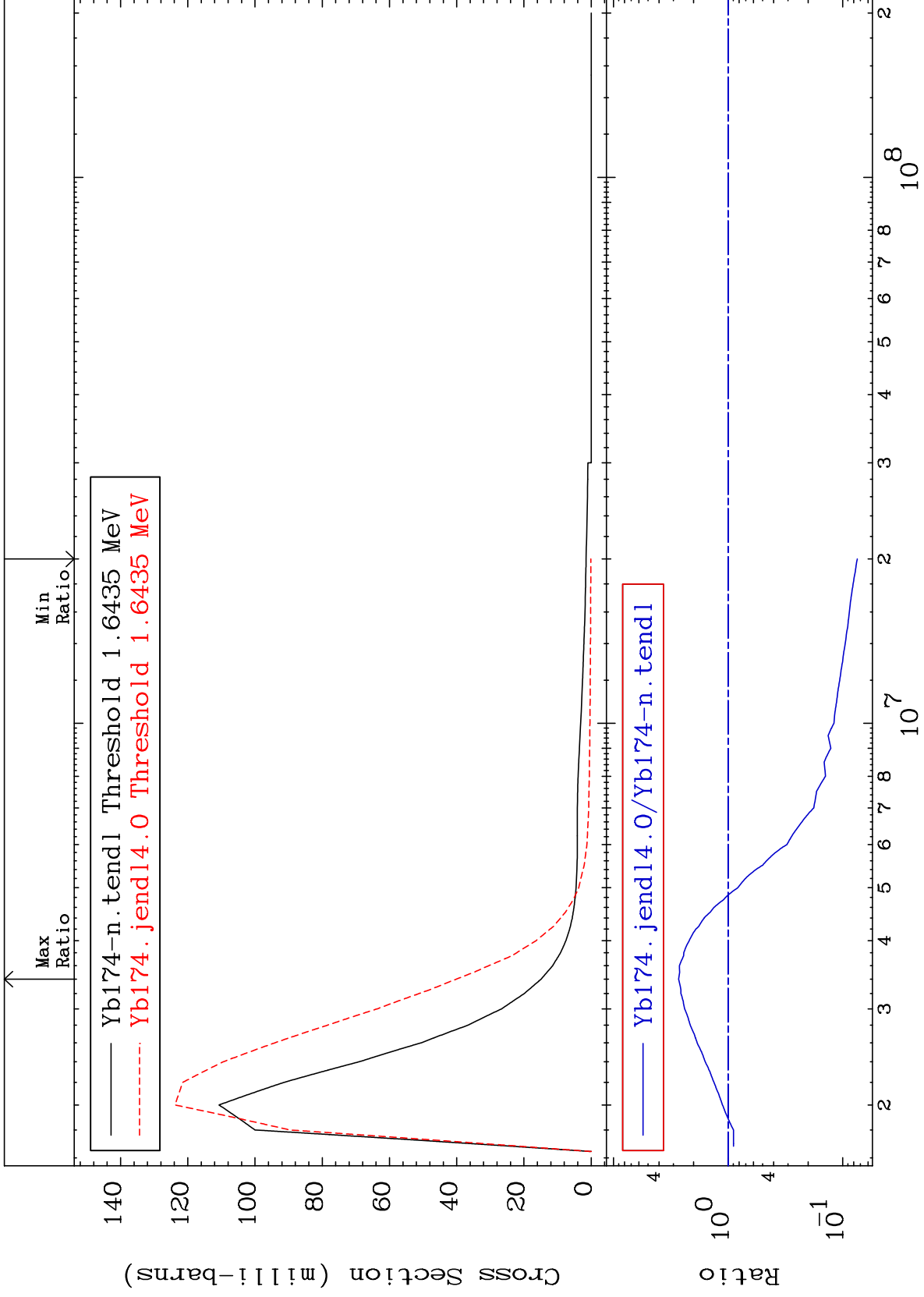
70-Yb-174  
-10.32 To 9999. %



MAT 7043

1.634 MeV (n,n') Level  
Cross Section

70-Yb-174  
-92.54 To 170.0 %

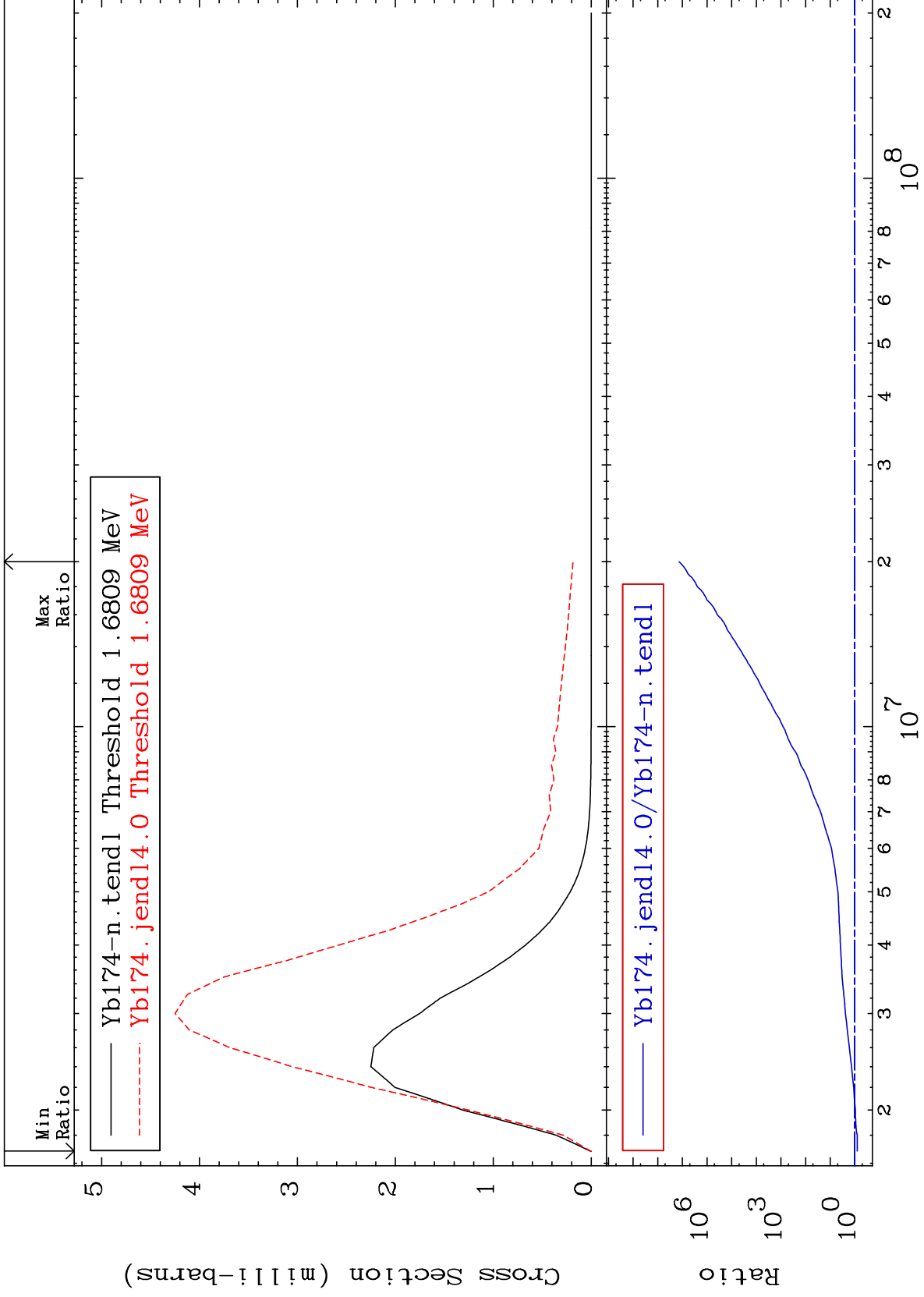




MAT 7043

1.671 MeV (n,n') Level  
Cross Section

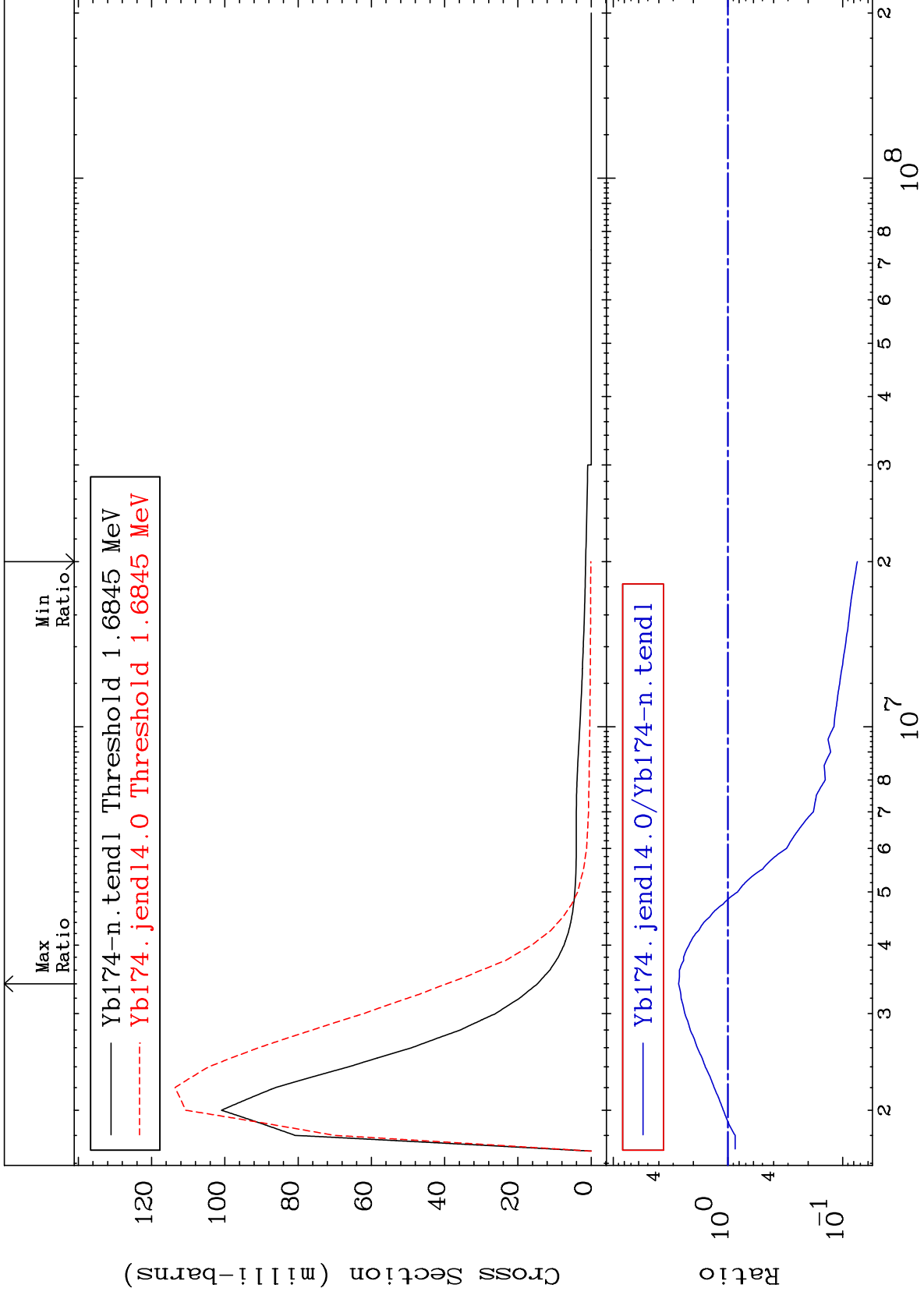
70-Yb-174  
-20.18 To 9999. %



MAT 7043

1.675 MeV (n,n') Level  
Cross Section

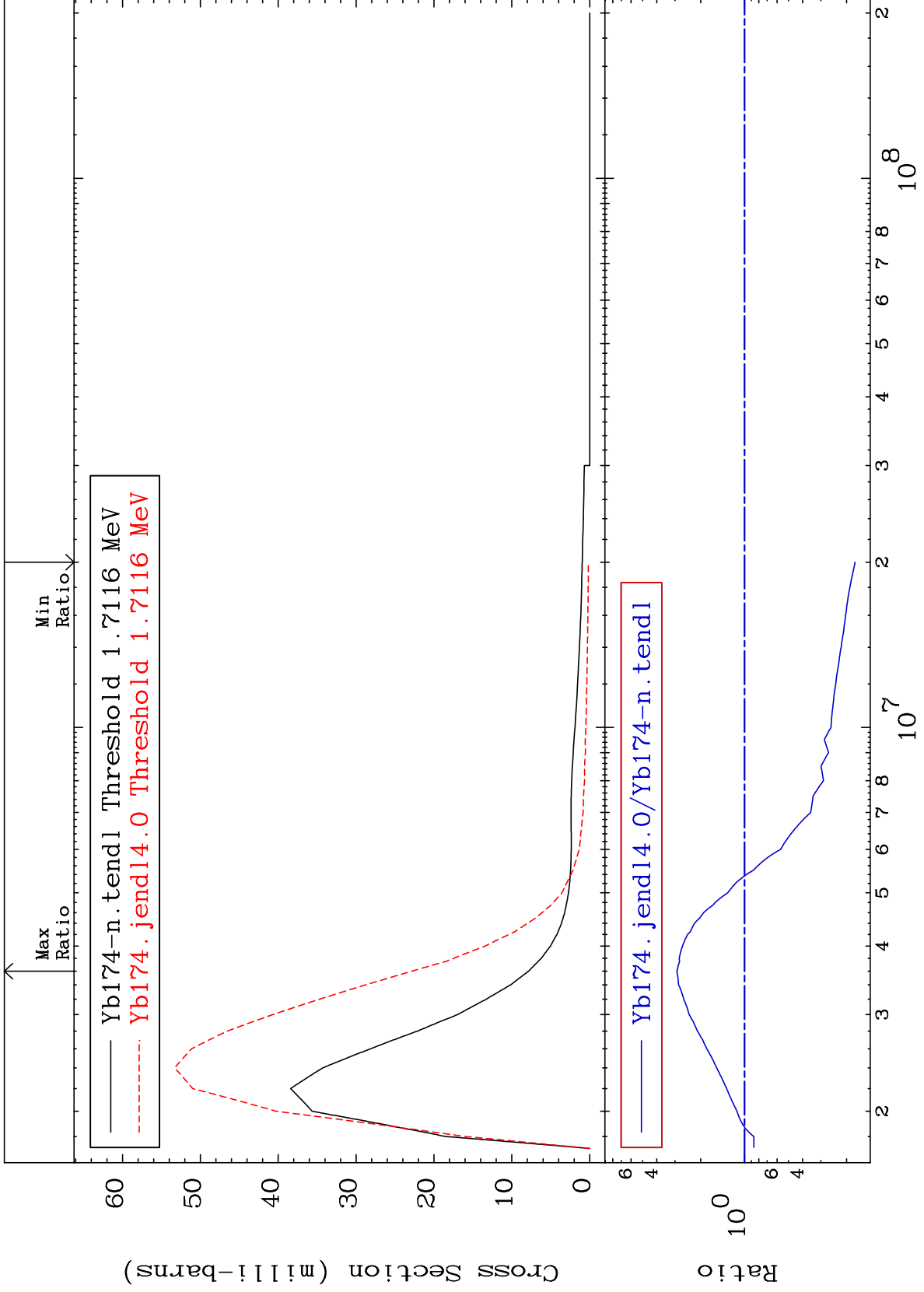
<sup>70</sup>Yb-174  
-92.53 To 169.2 %



MAT 7043

1.702 MeV (n,n') Level  
Cross Section

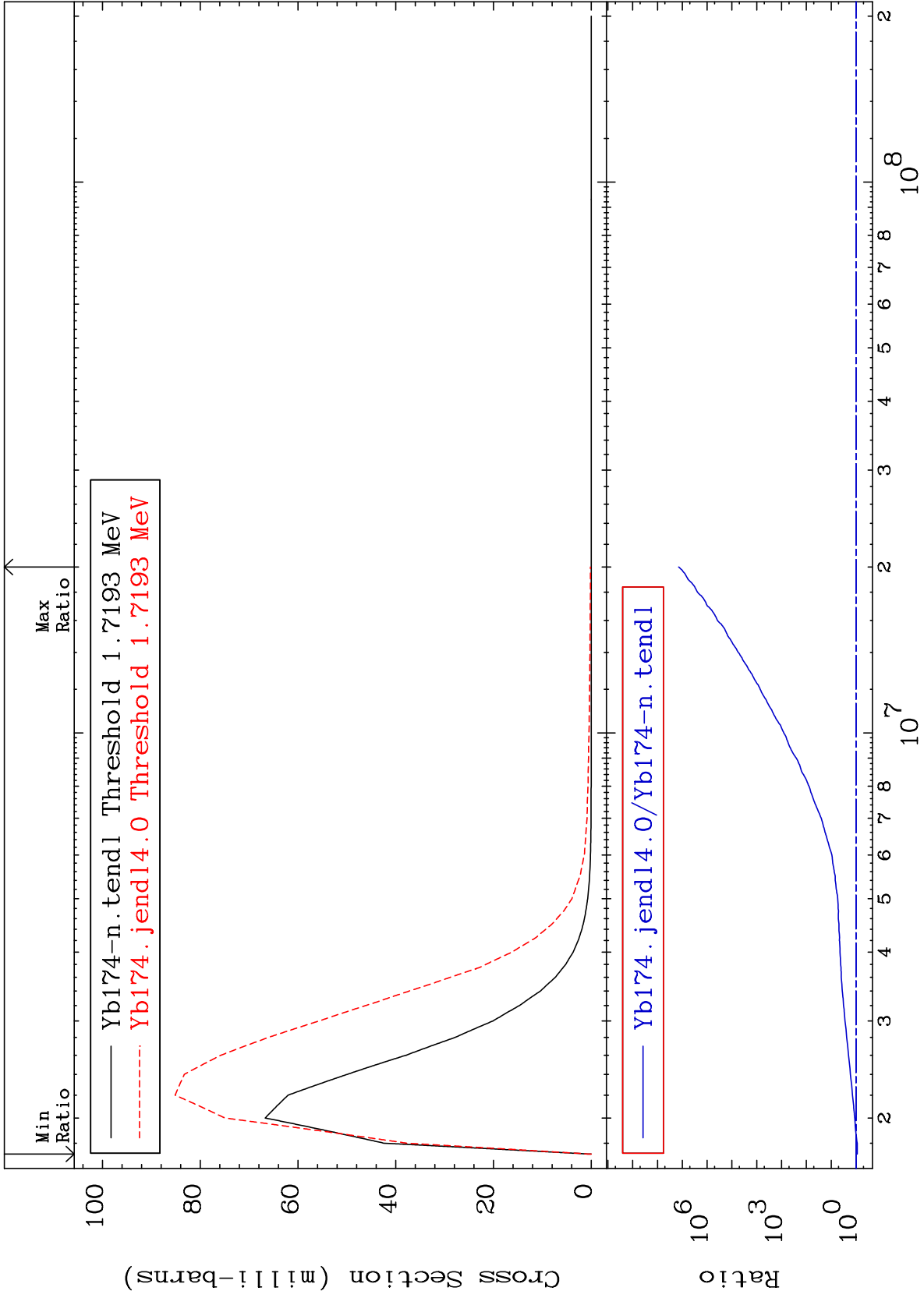
70-Yb-174  
-82.51 To 191.0 %



MAT 7043

1.709 MeV (n,n') Level  
Cross Section

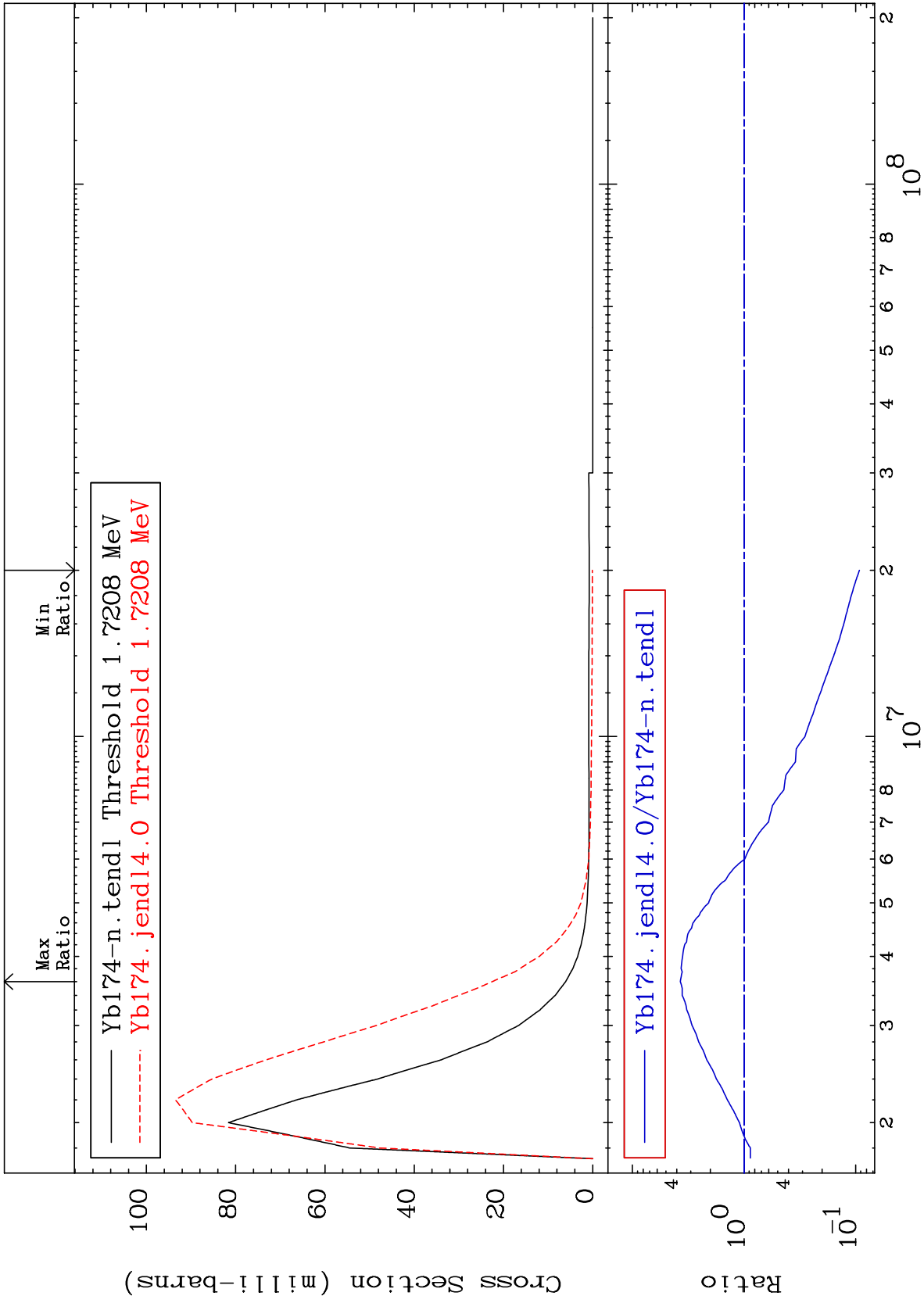
70-Yb-174  
-11.28 To 9999. %



MAT 7043

1.711 MeV (n,n') Level  
Cross Section

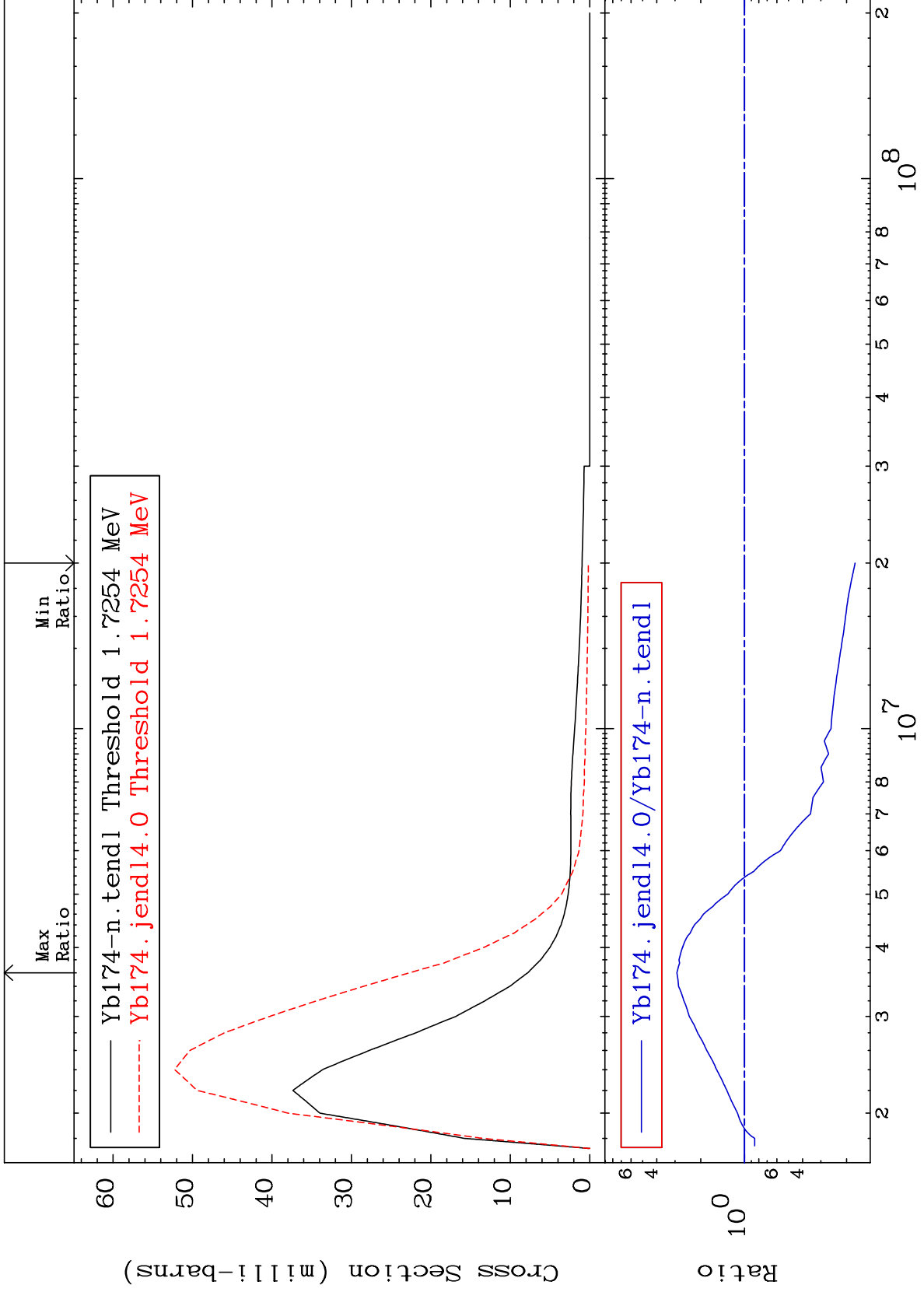
<sup>70</sup>Yb-174  
-90.75 To 272.0 %



MAT 7043

1.715 MeV (n,n') Level  
Cross Section

70-Yb-174  
-82.51 To 190.8 %



30

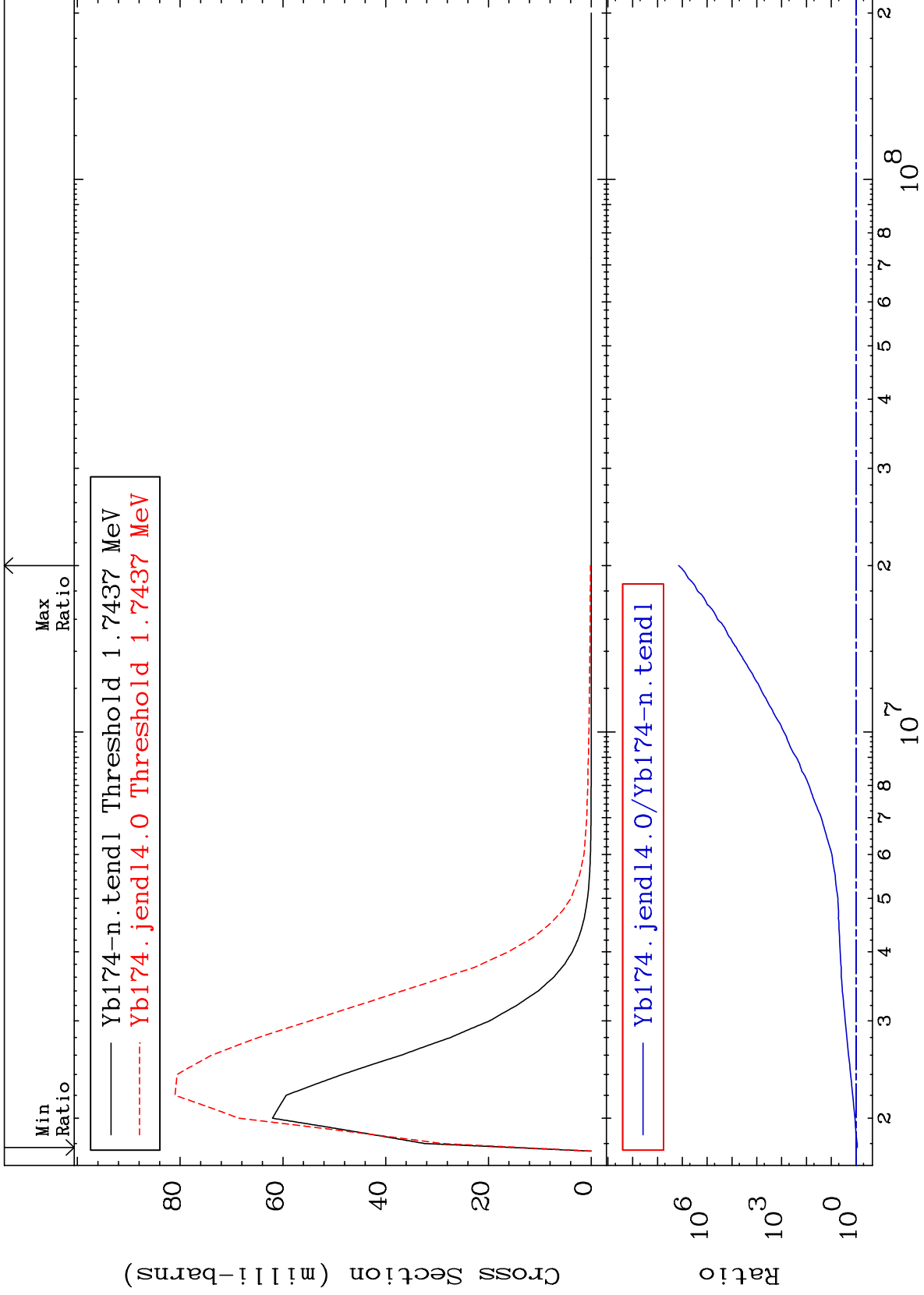
Incident Energy (eV)

70-Yb-174

MAT 7043

1.734 MeV (n,n') Level  
Cross Section

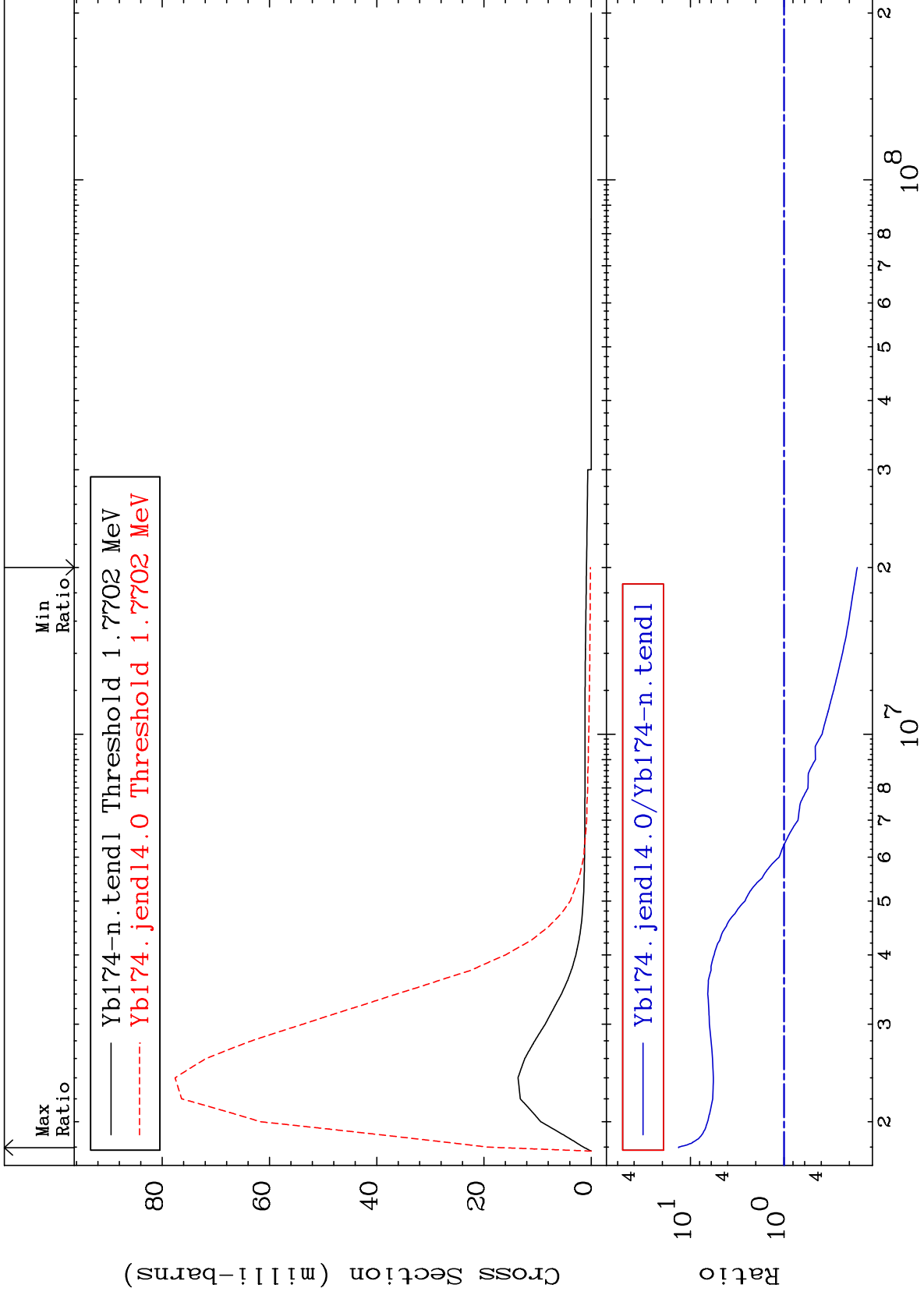
70-Yb-174  
-10.50 To 9999. %



MAT 7043

1.760 MeV (n,n') Level  
Cross Section

70-Yb-174  
-83.55 To 1237. %

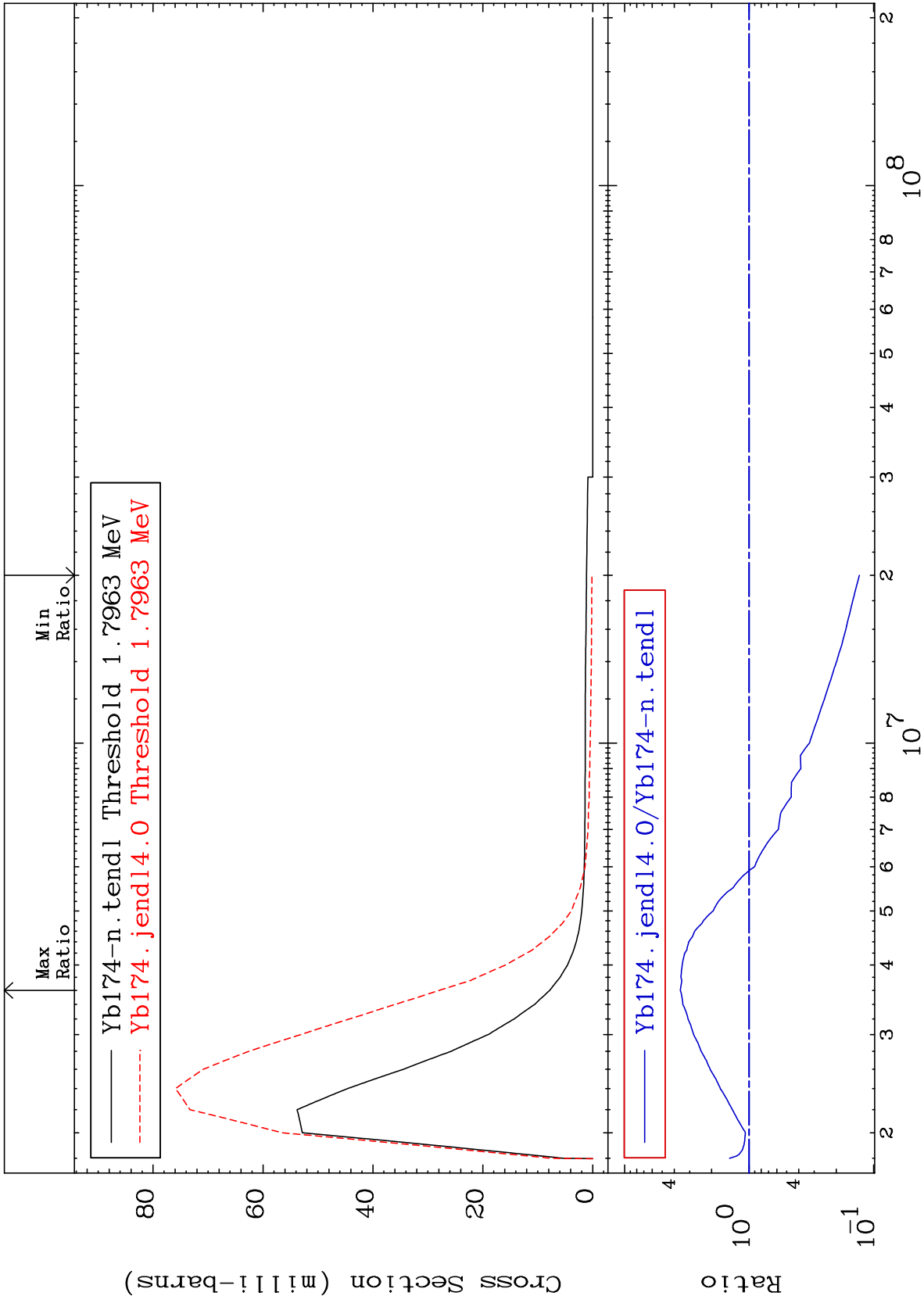




MAT 7043

1.786 MeV (n,n') Level  
Cross Section

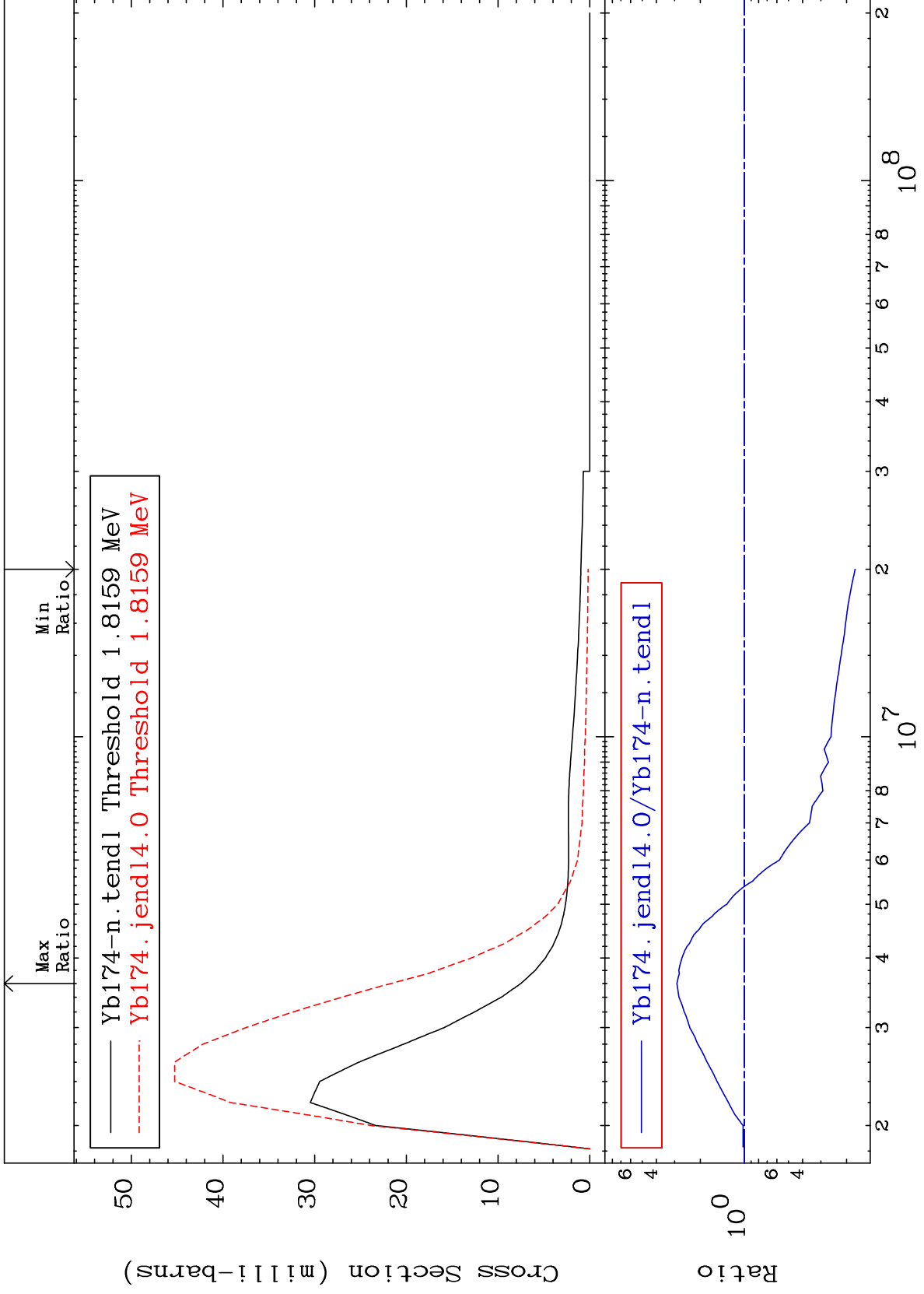
<sup>70</sup>Yb-174  
-86.99 To 256.7 %



MAT 7043

1.805 MeV (n,n') Level  
Cross Section

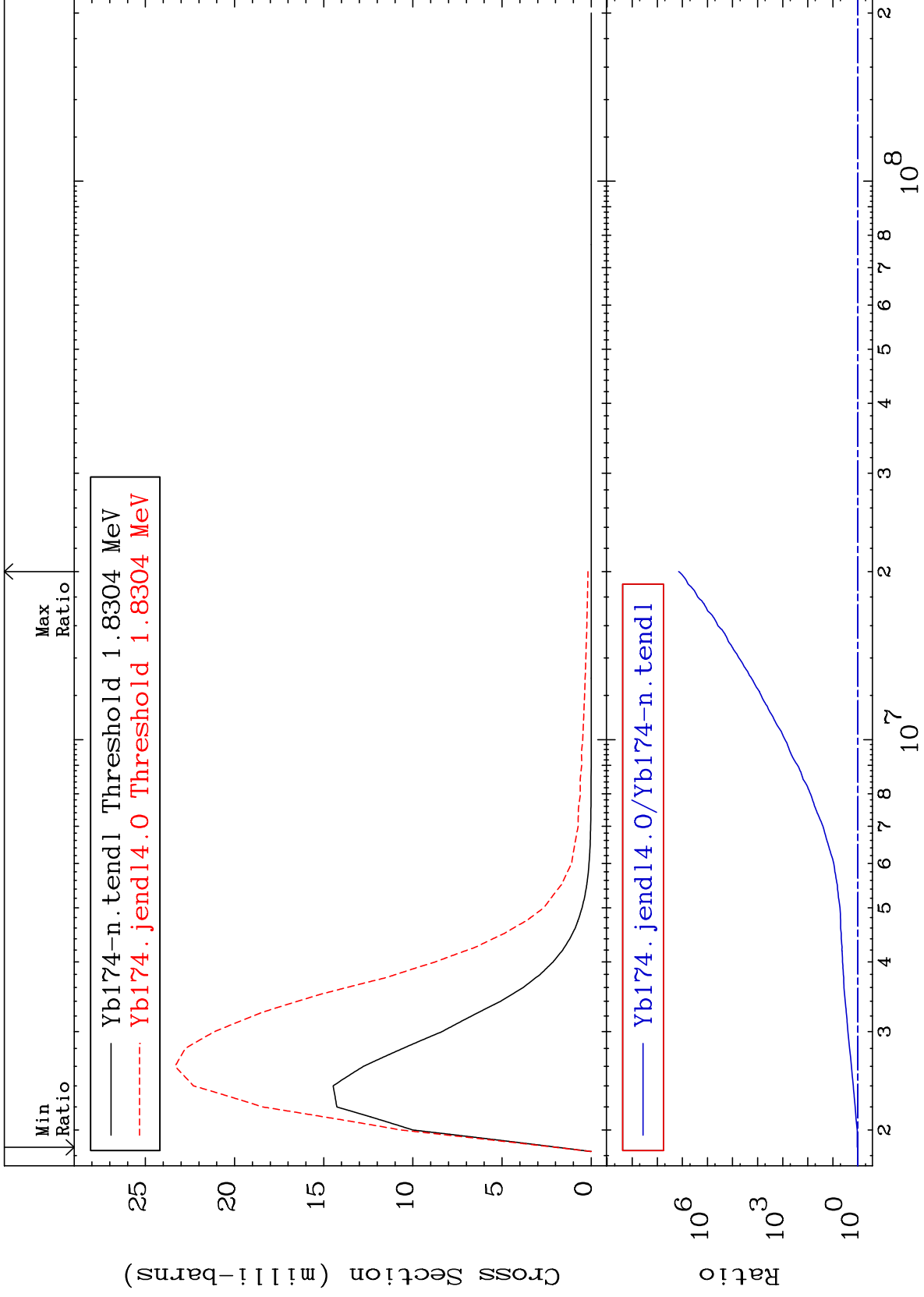
<sup>70</sup>Yb-174  
-82.50 To 189.3 %



MAT 7043

1.820 MeV (n,n') Level  
Cross Section

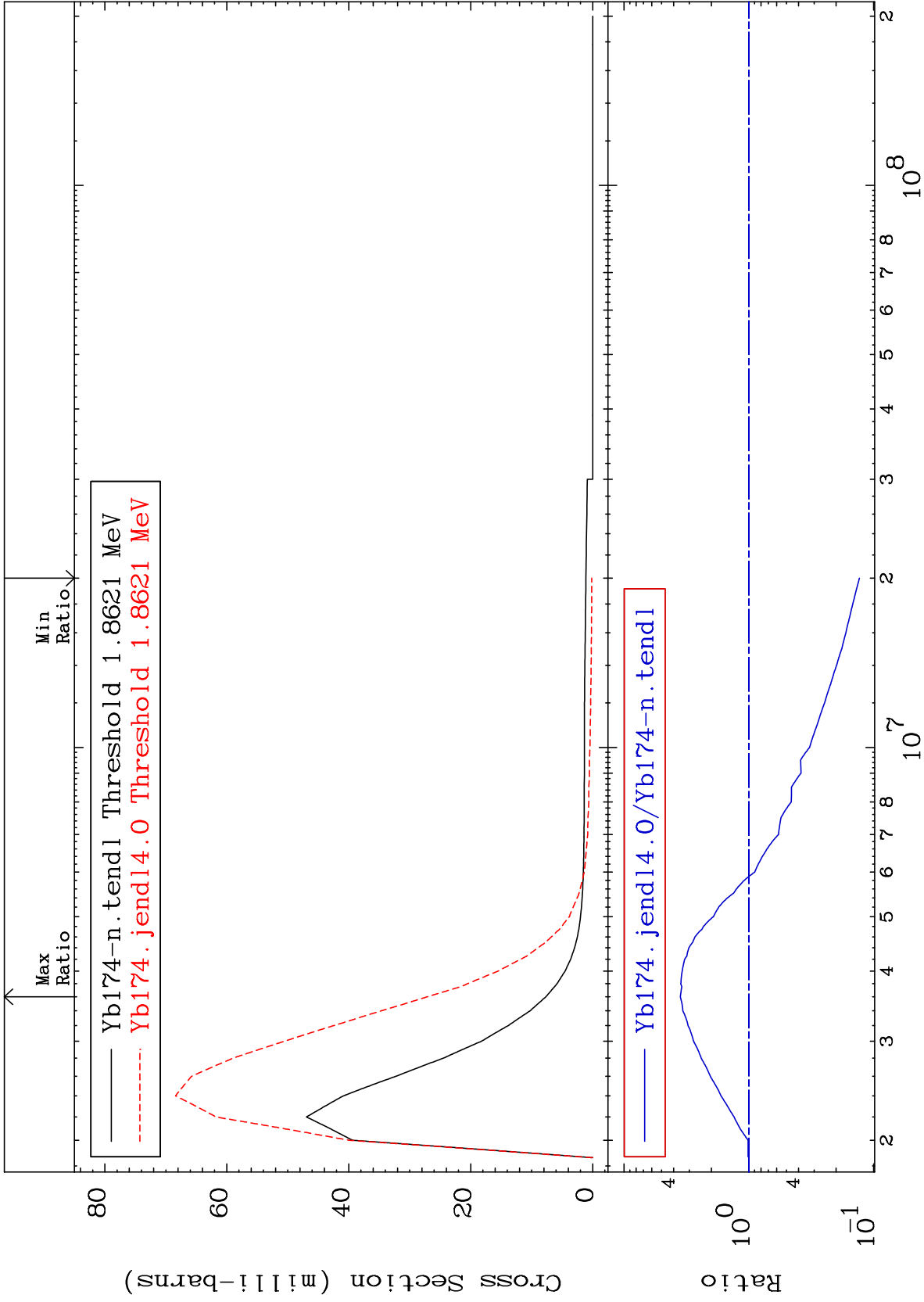
70-Yb-174  
To 9999. %  
6.544



MAT 7043

1.851 MeV (n,n') Level  
Cross Section

<sup>70</sup>Yb-174  
-86.99 To 254.0 %



36

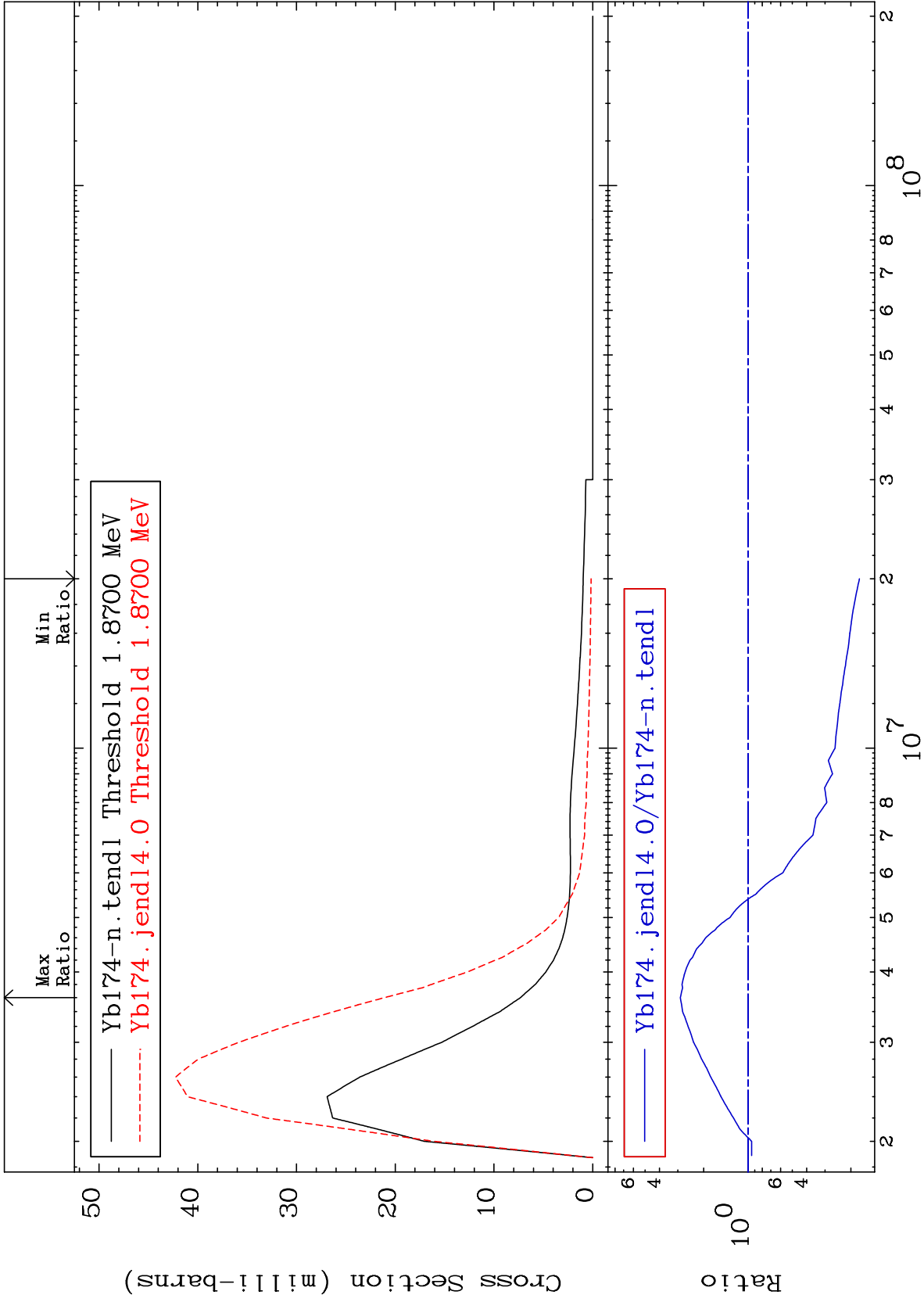
Incident Energy (eV)

<sup>70</sup>Yb-174

MAT 7043

1.859 MeV (n,n') Level  
Cross Section

70-Yb-174  
-82.50 To 188.2 %



37

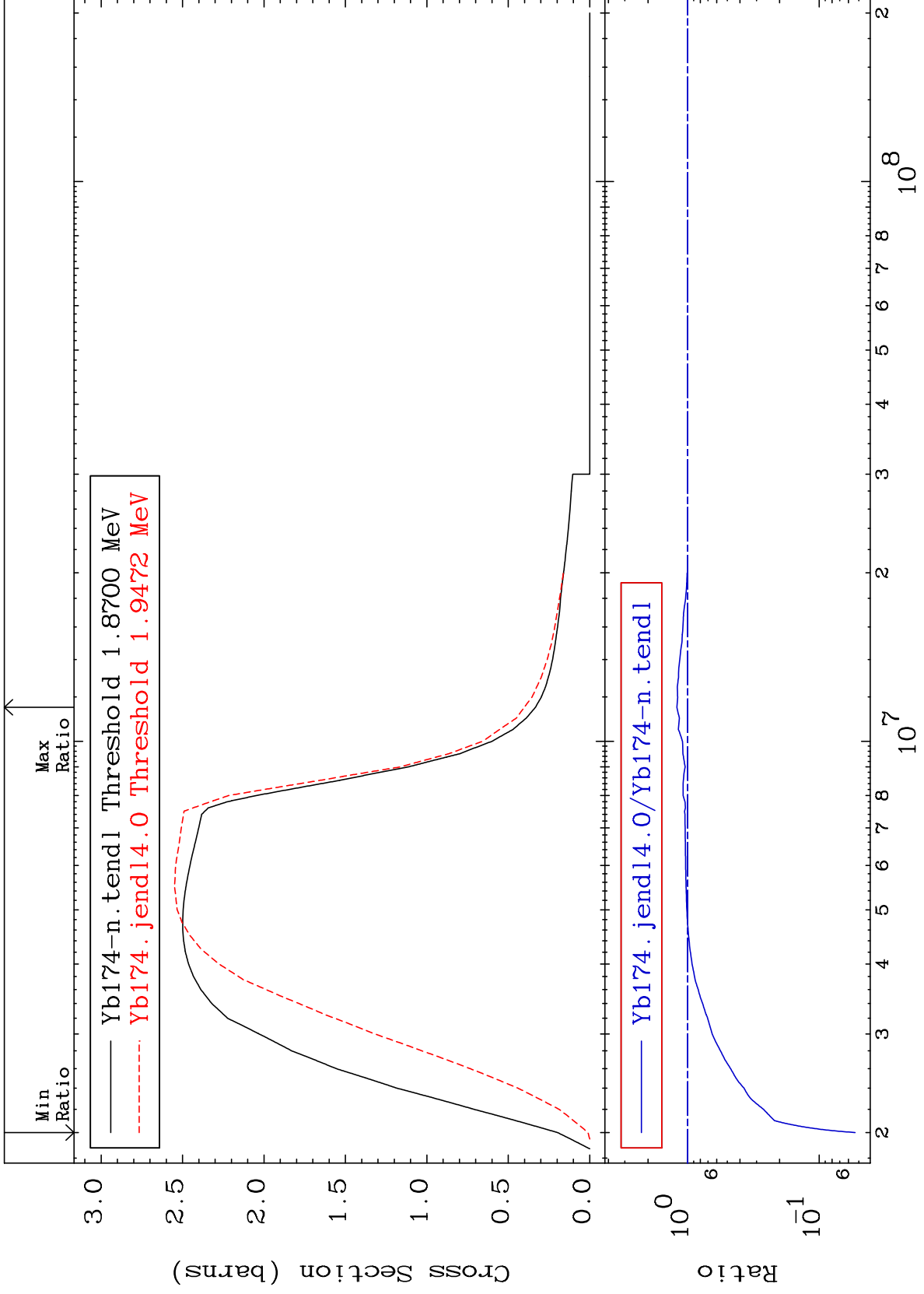
Incident Energy (eV)

70-Yb-174

MAT 7043

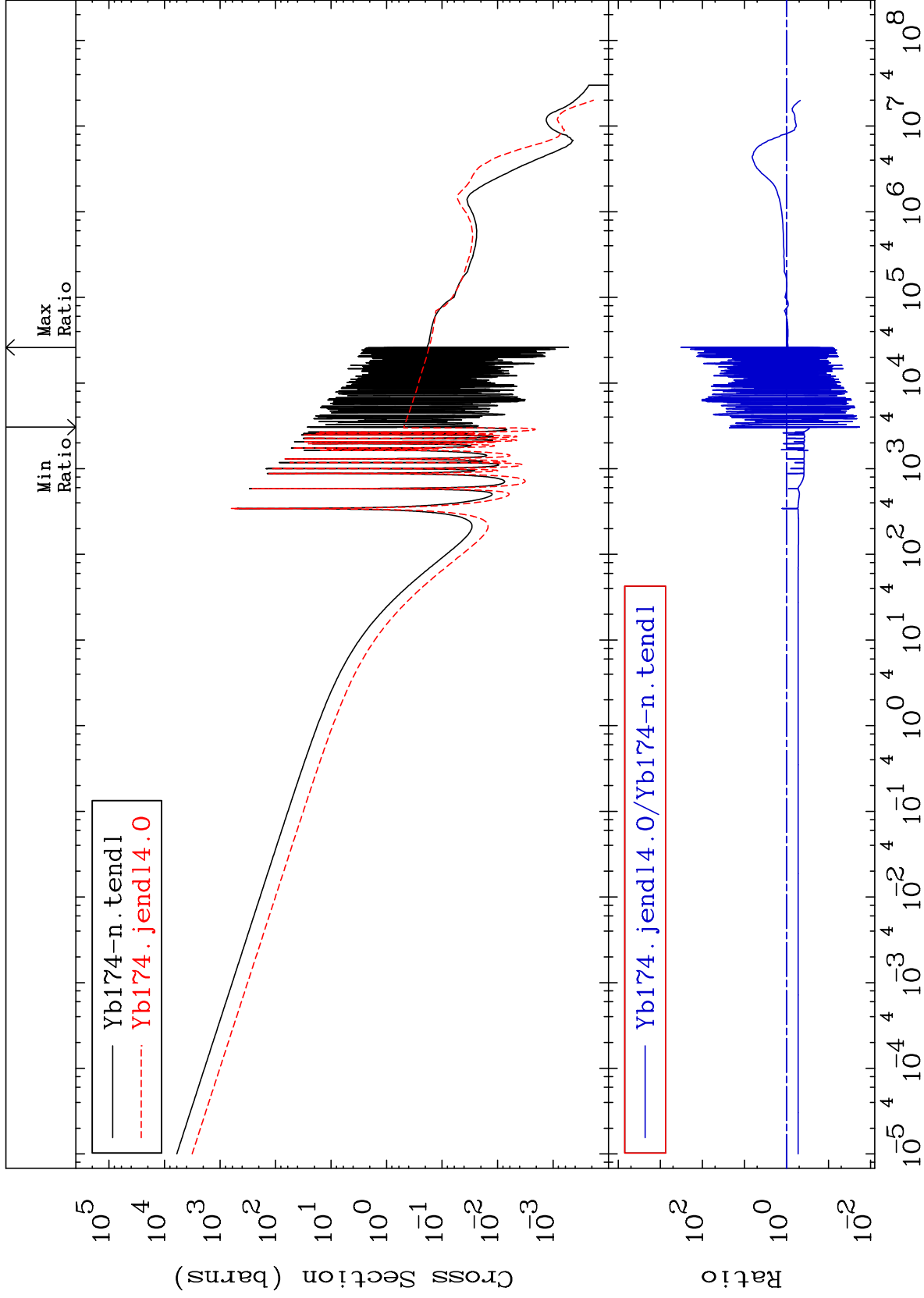
(n, n') Continuum  
Cross Section

<sup>70</sup>Yb-174  
-94.66 To 20.52 %



MAT 7043

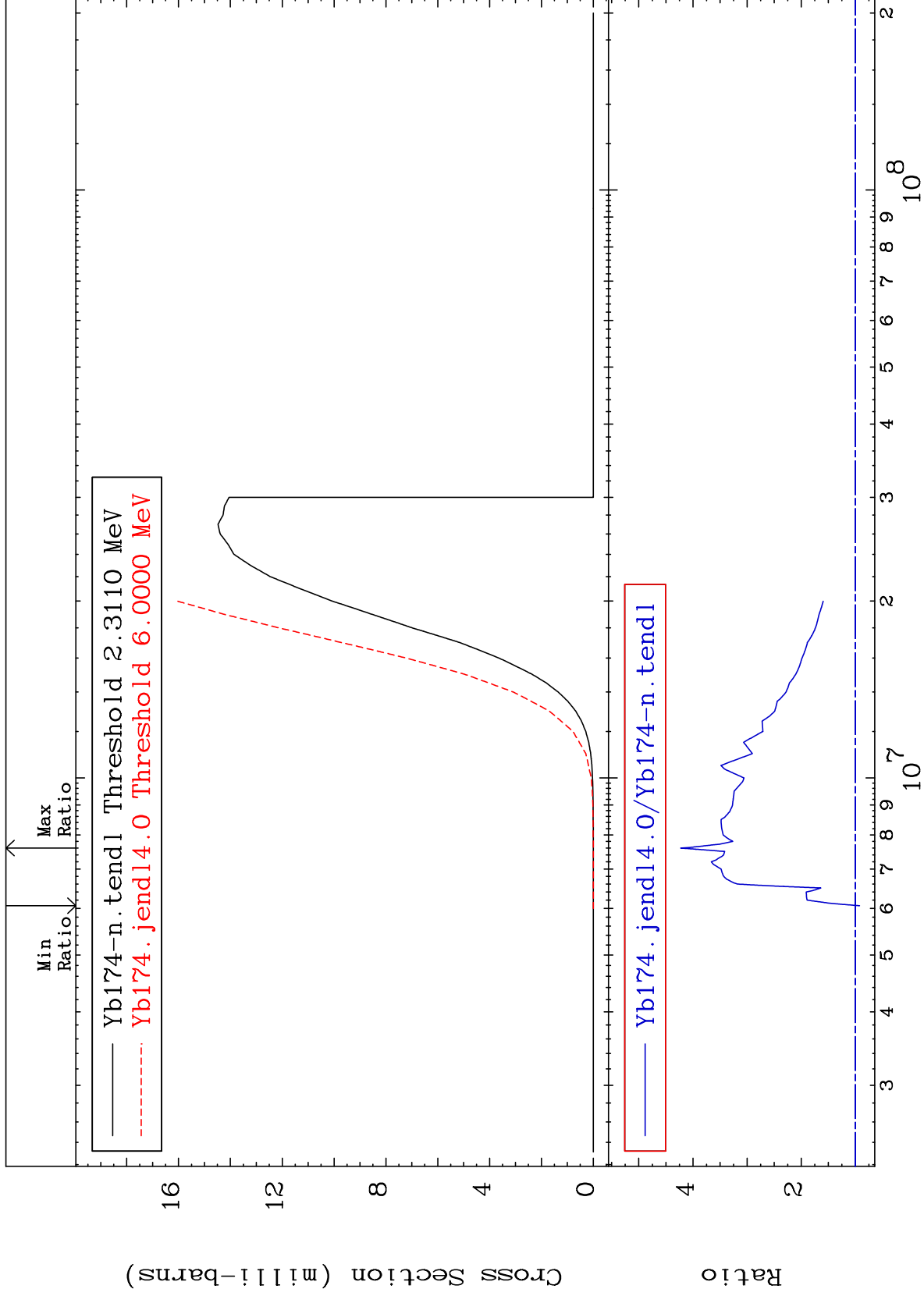
(n,  $\gamma$ )  
Cross Section  
70-Yb-174  
-98.17 To 9999. %



MAT 7043

(n,p)  
Cross Section

70-Yb-174  
-7.711 To 322.4 %

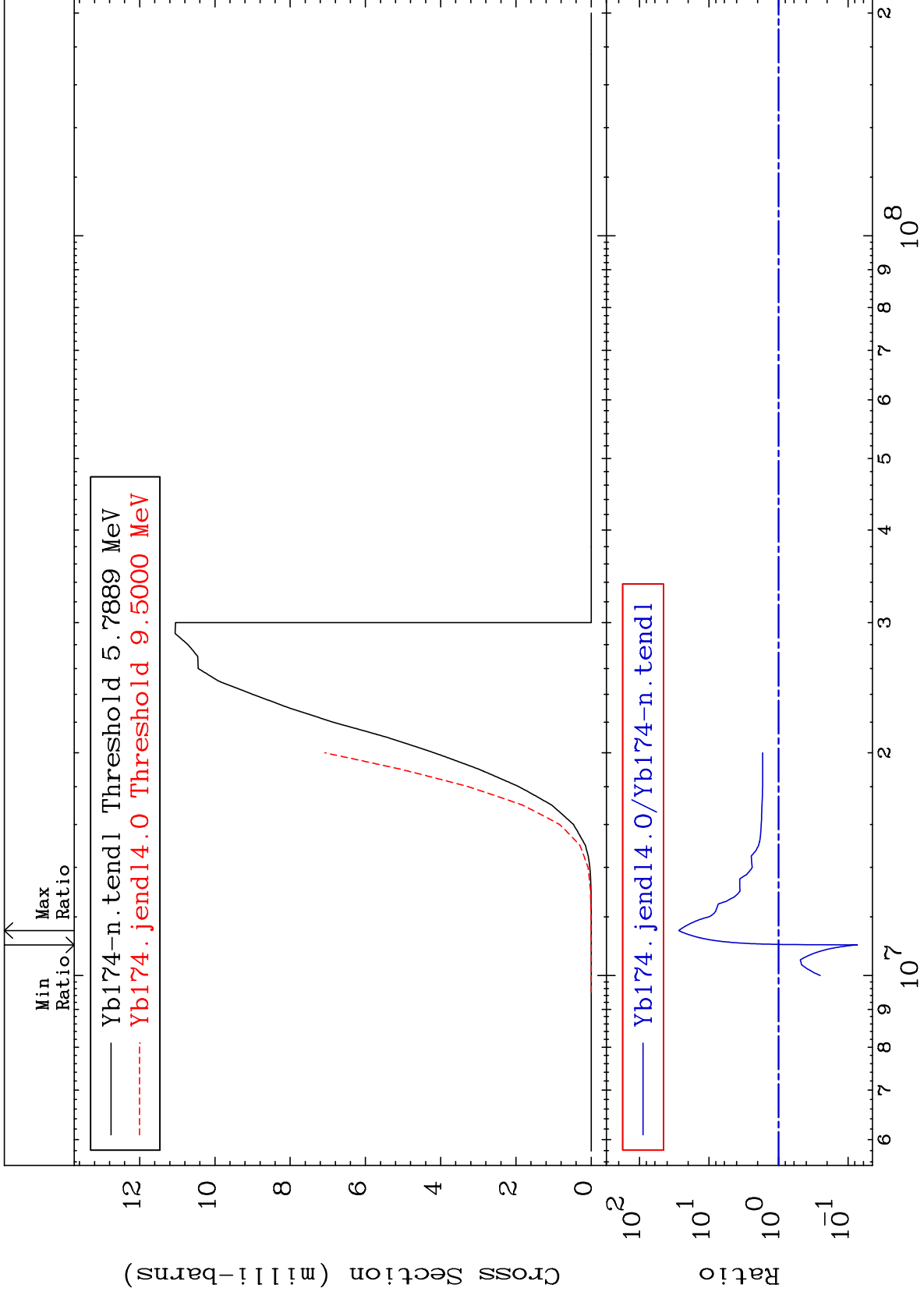




MAT 7043

(n, d)  
Cross Section

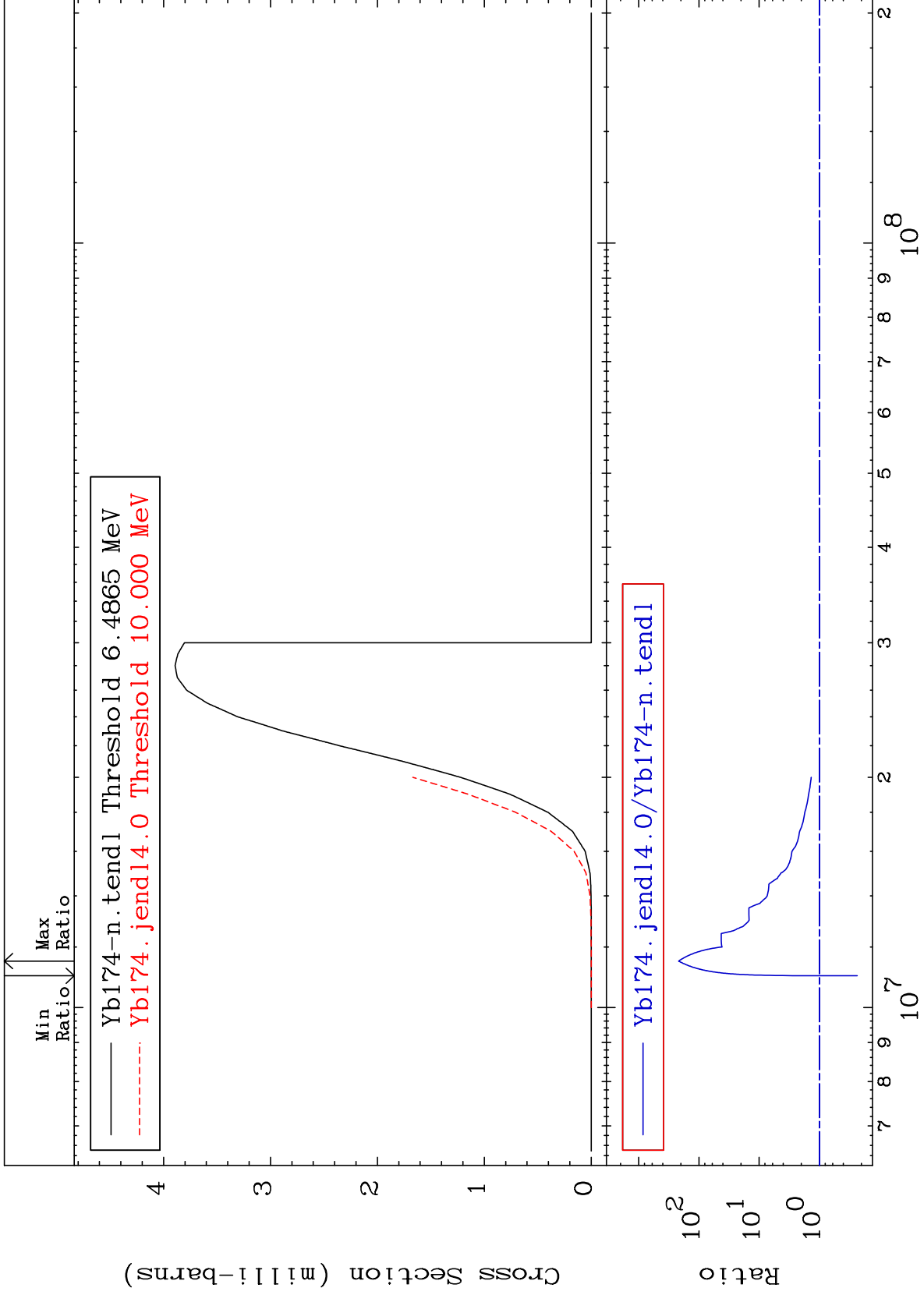
70-Yb-174  
-92.63 To 2636. %



MAT 7043

(n, t)  
Cross Section

70-Yb-174  
-76.50 To 9999. %



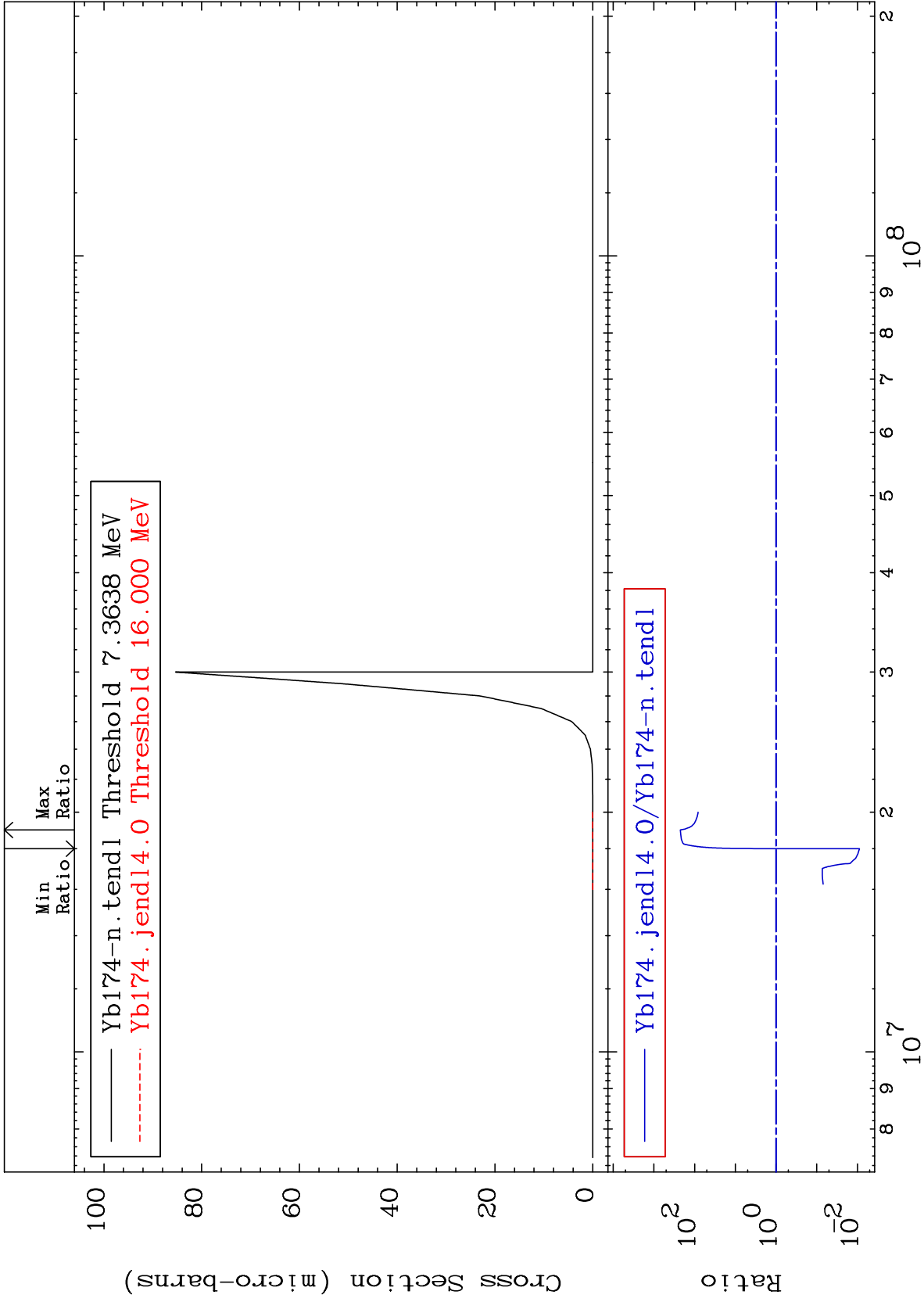
MAT 7043

(n, He-3)

<sup>70</sup>Yb-174

Cross Section

-99.10 To 9999. %



43

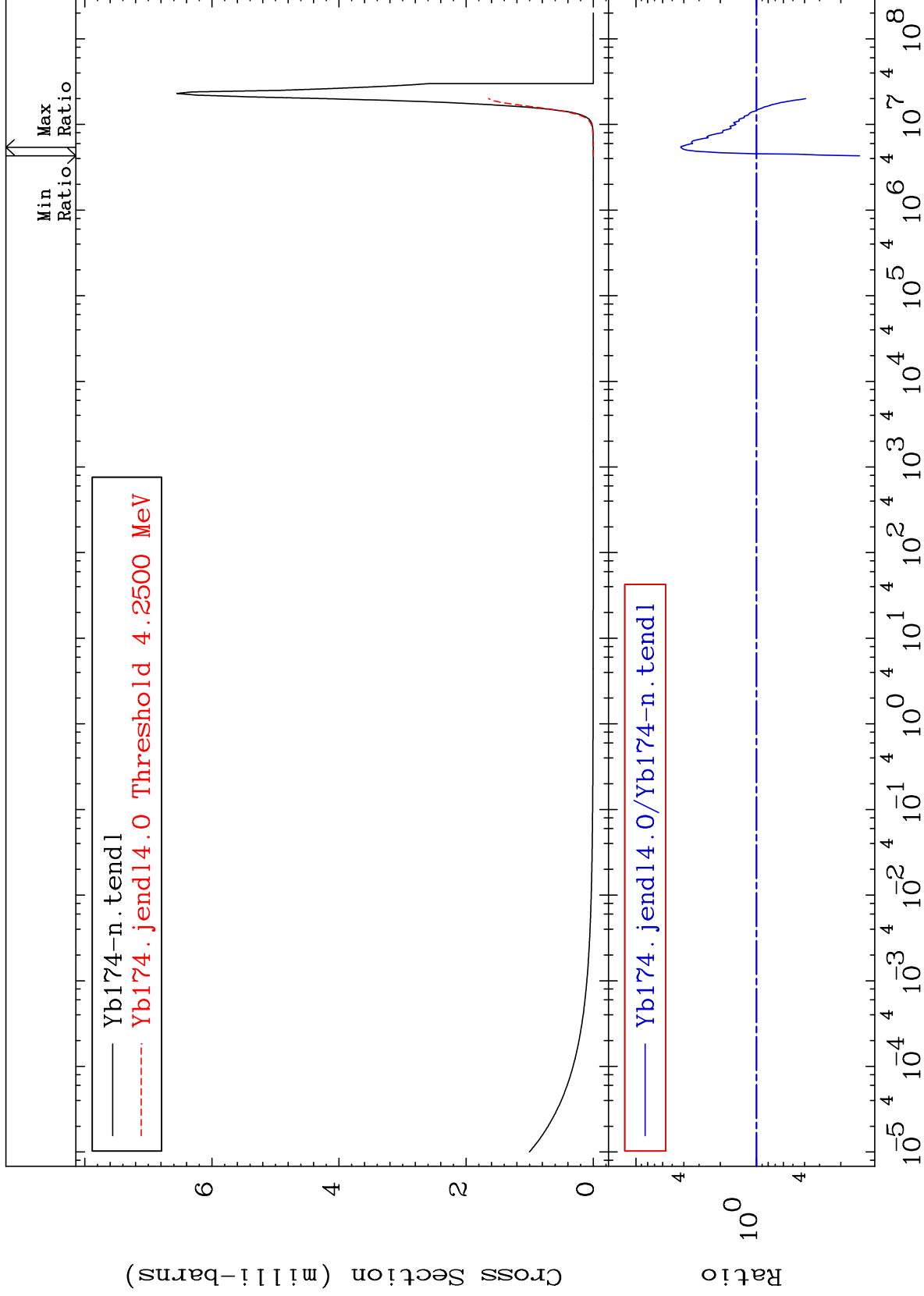
Incident Energy (eV)

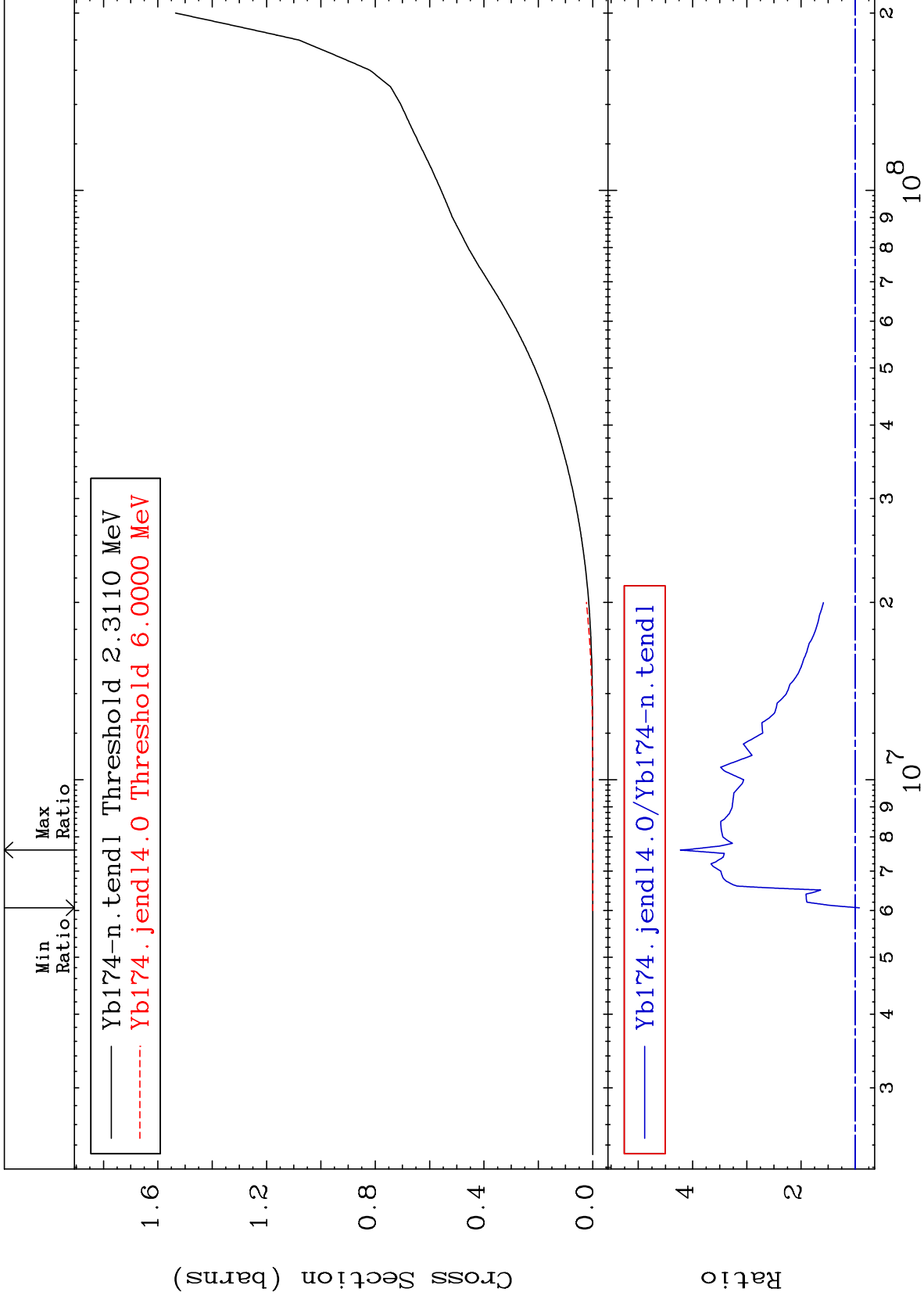
<sup>70</sup>Yb-174

MAT 7043

(n,  $\alpha$ )  
Cross Section

70-Yb-174  
-86.01 To 324.6 %

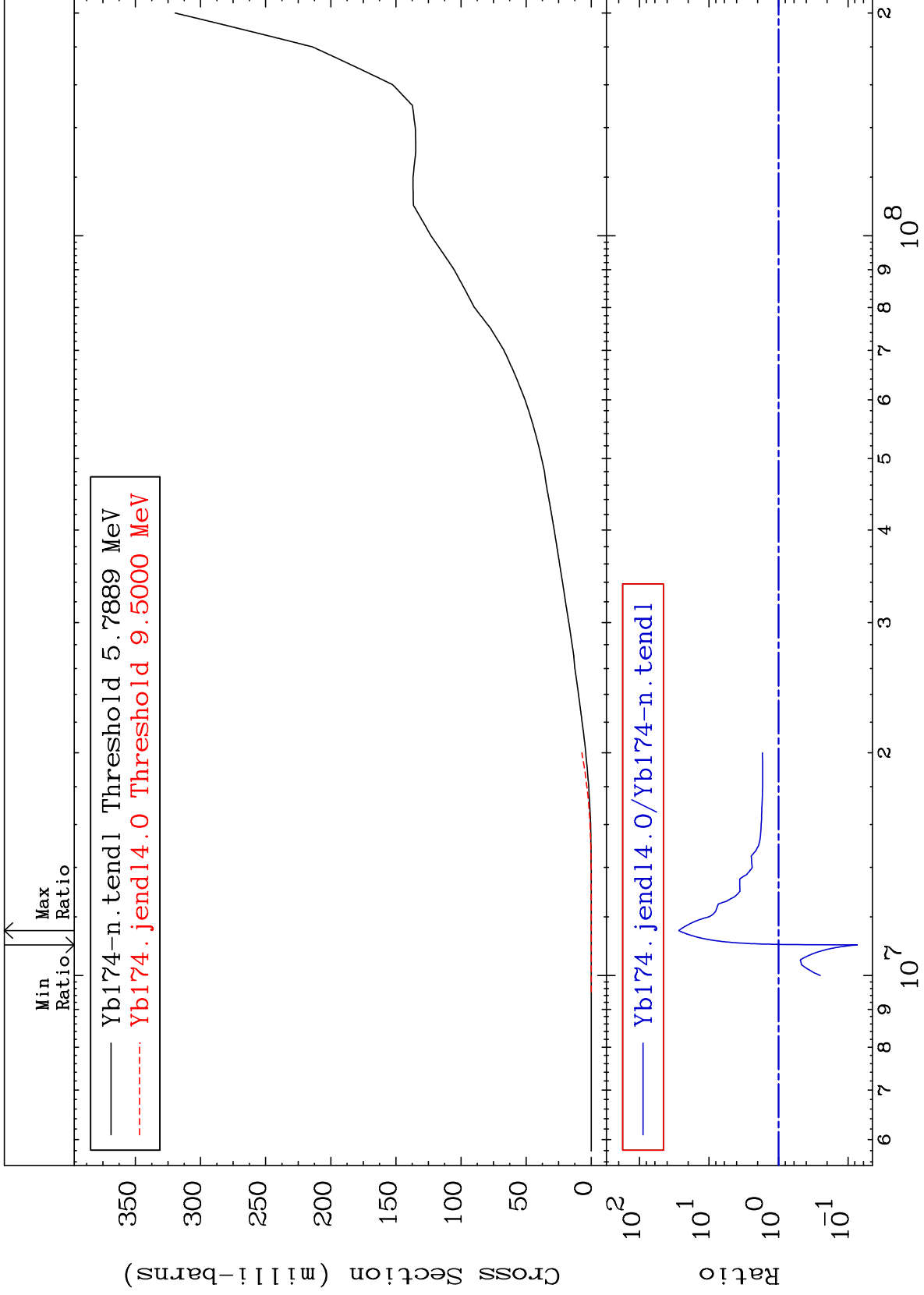




MAT 7043

Deuterium Production  
Cross Section

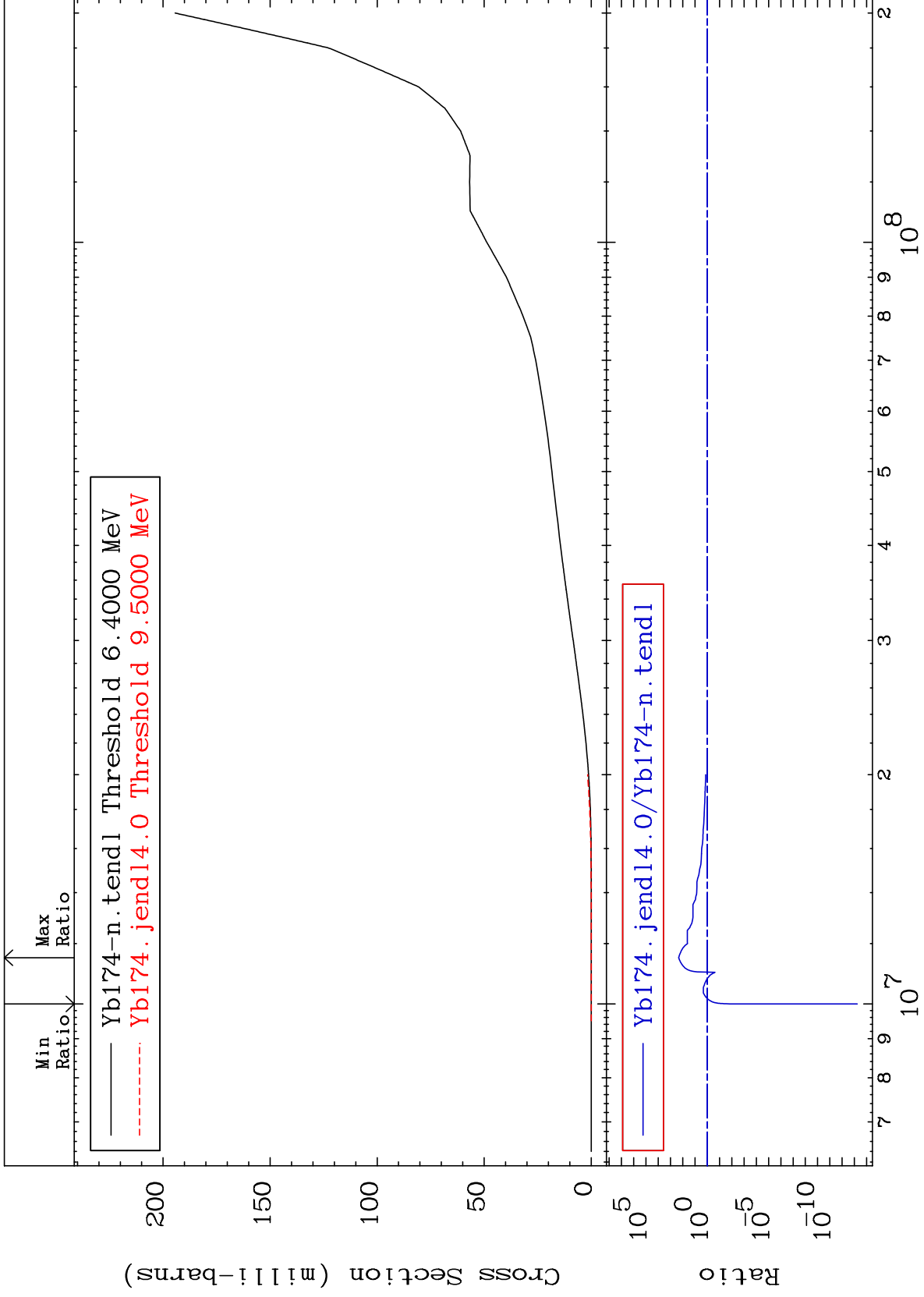
<sup>70</sup>Yb-174  
-92.63 To 2636. %



MAT 7043

Tritium Production  
Cross Section

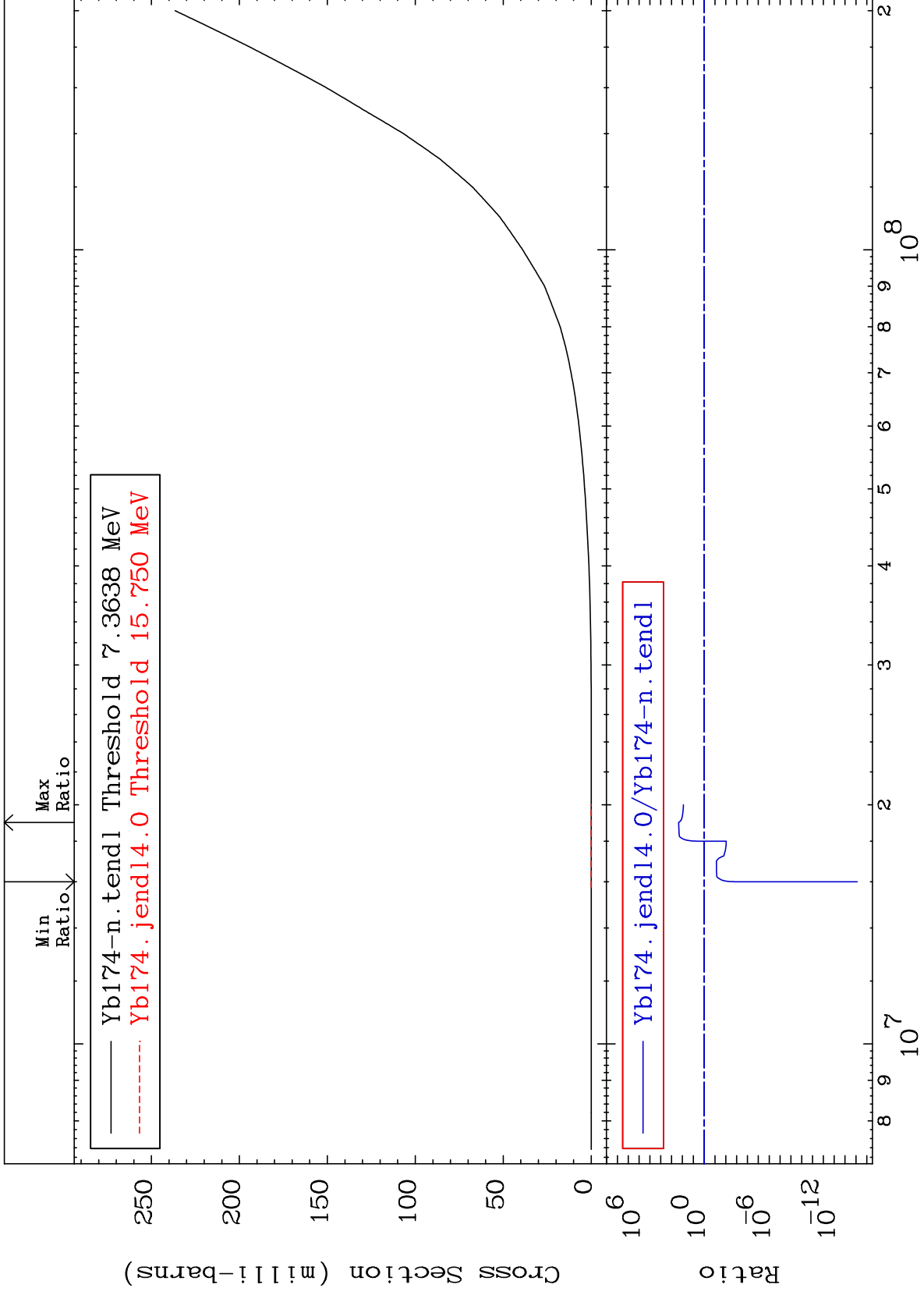
70-Yb-174  
-100.0 To 9999. %



MAT 7043

He-3 Production  
Cross Section

<sup>70</sup>Yb-<sup>174</sup>  
-100.0 To 9999. %



48

Incident Energy (eV)

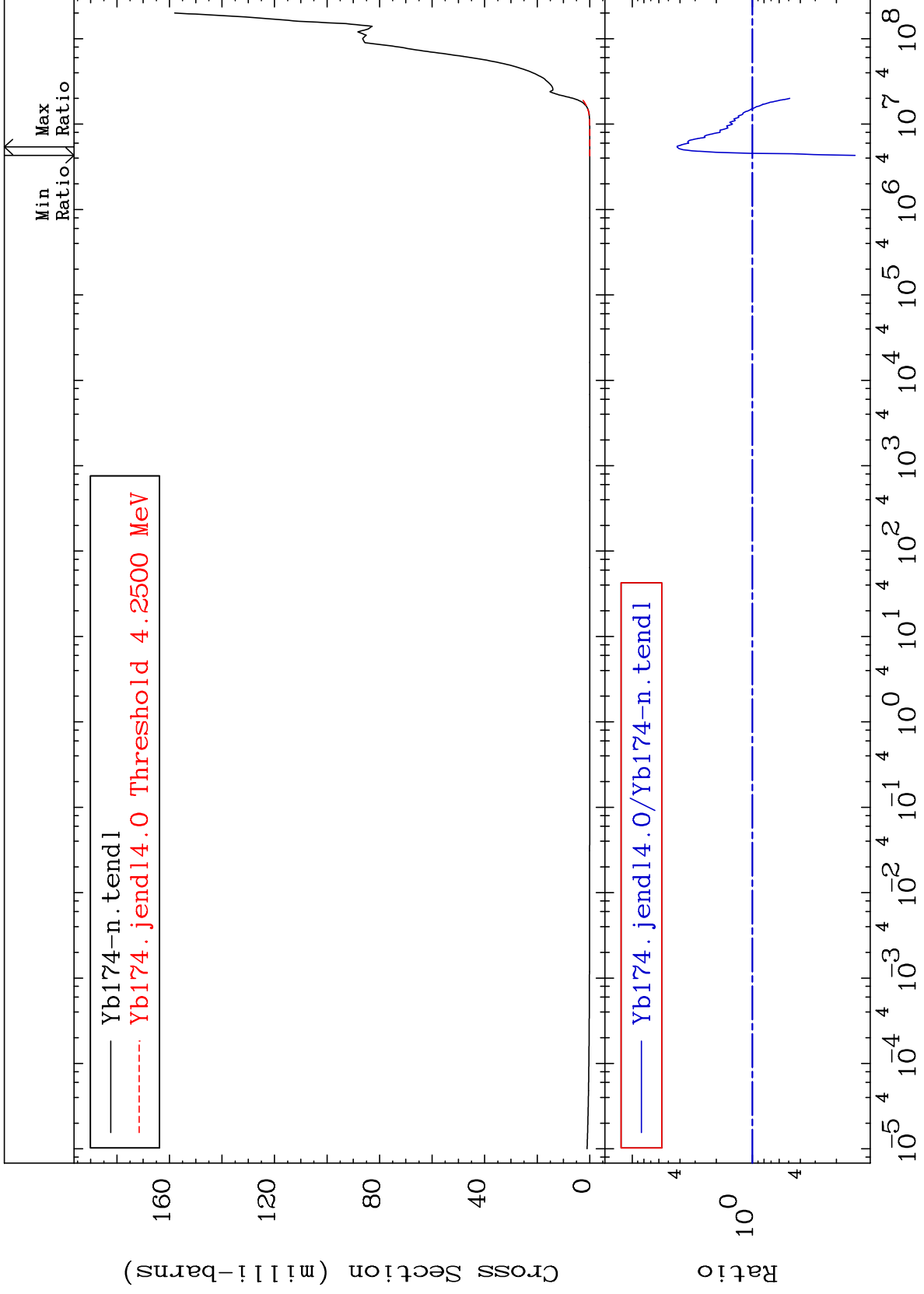
<sup>70</sup>Yb-<sup>174</sup>



MAT 7043

He-4 Production  
Cross Section

70-Yb-174  
-86.01 To 324.5 %



49

70-Yb-174

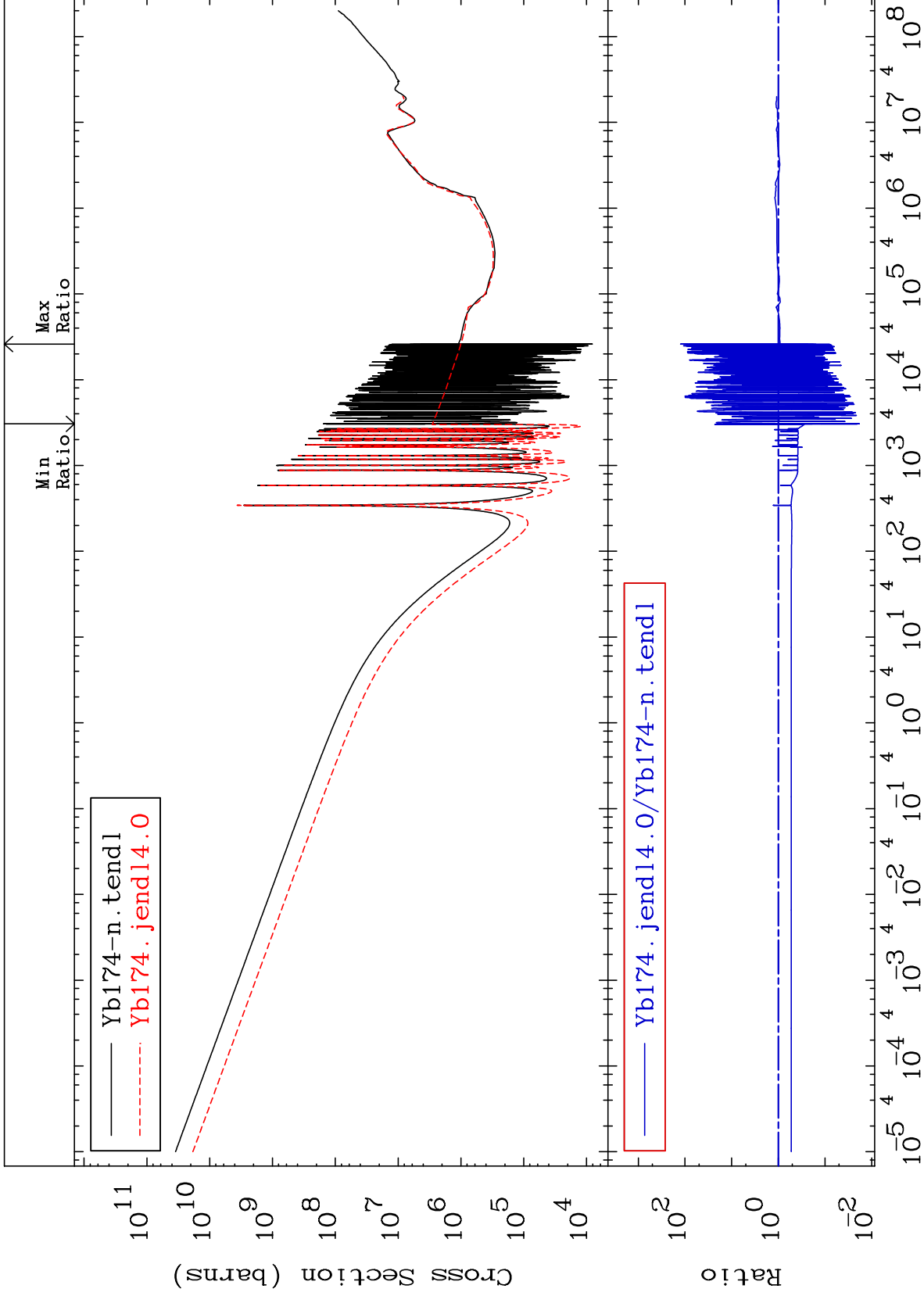
MAT 7043

Kerma total (eV-barns)

<sup>70</sup>Yb-174

Cross Section

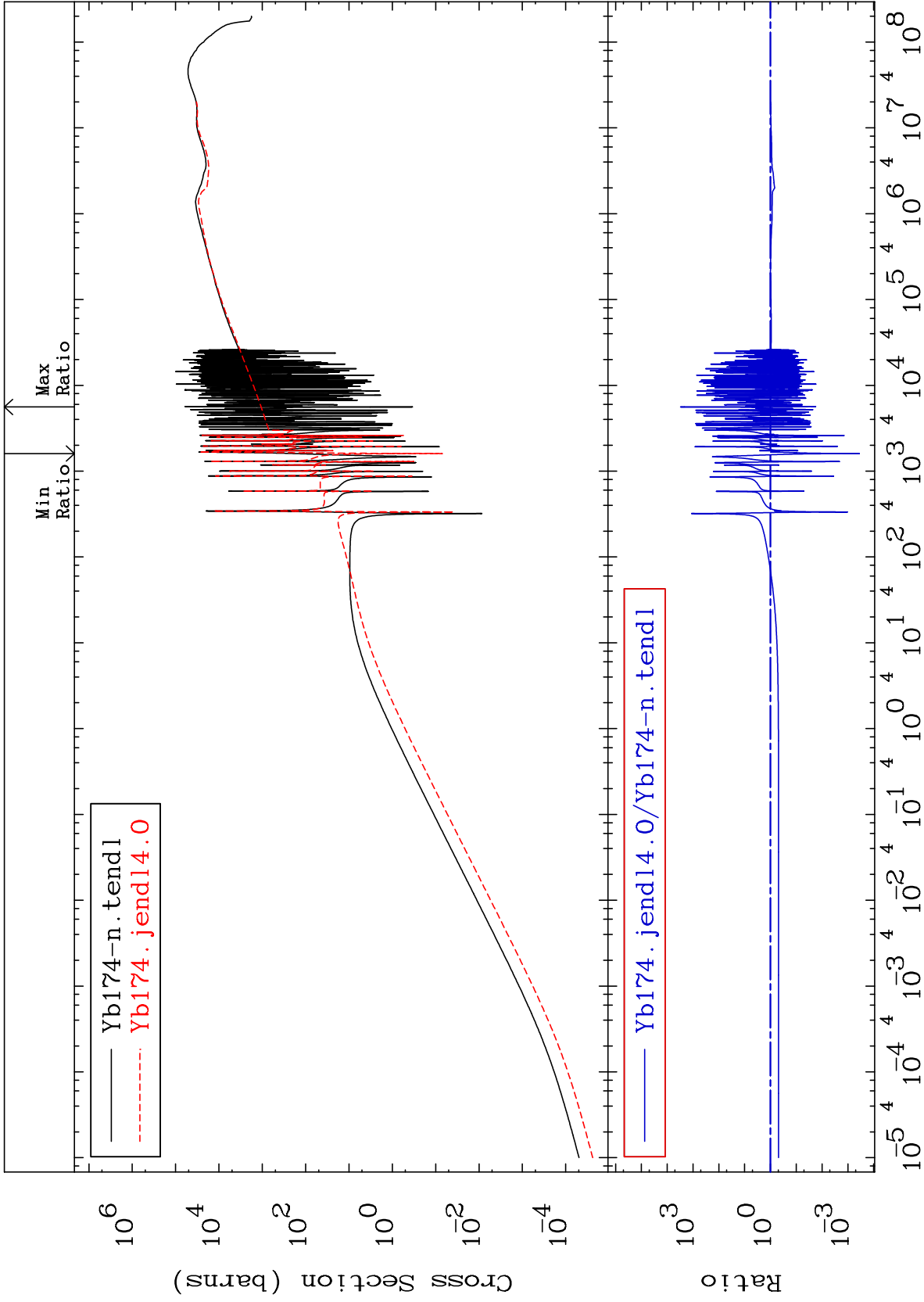
-98.17 To 9999. %



MAT 7043

Kerma elastic  
Cross Section

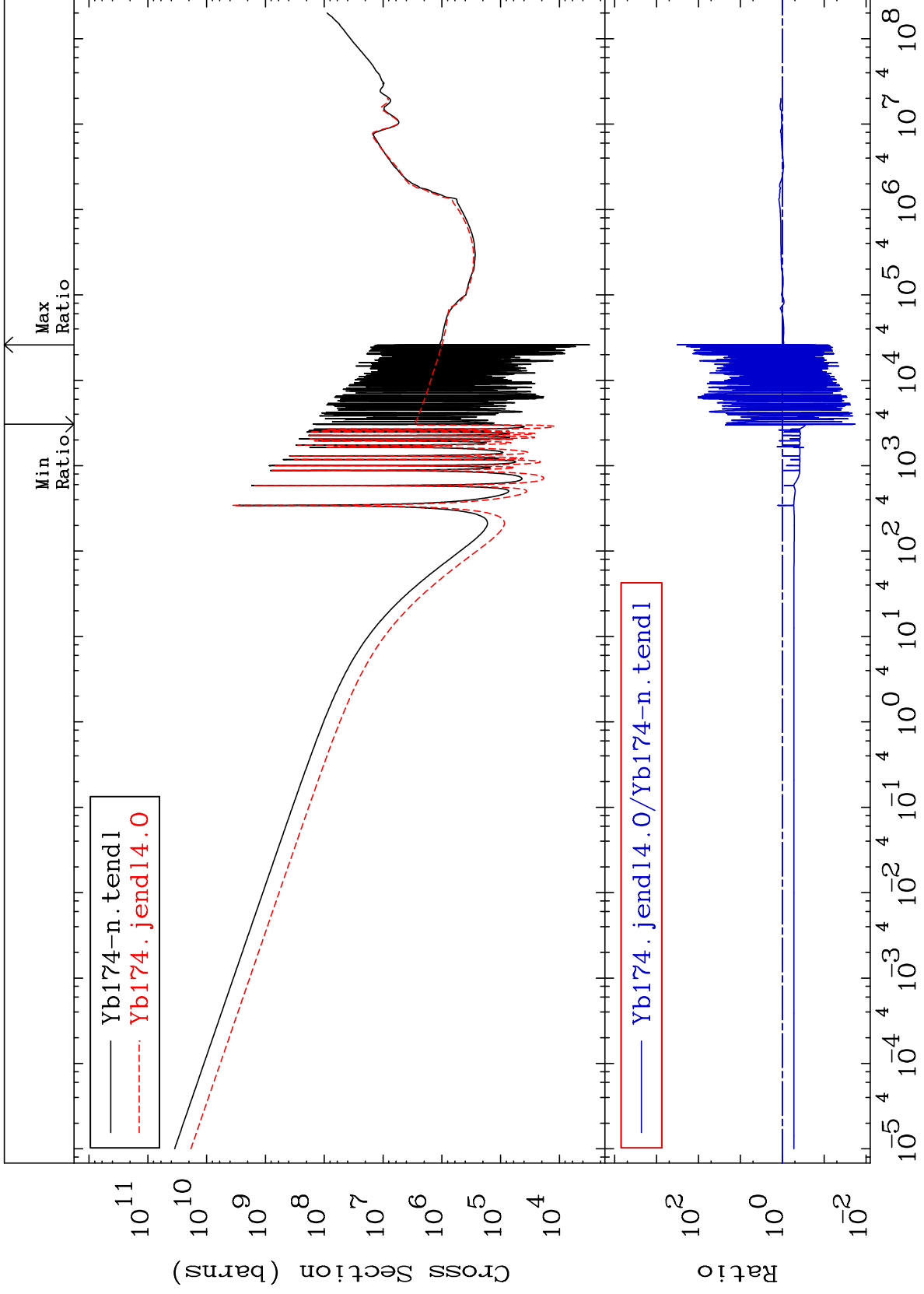
<sup>70</sup>Yb-174  
-99.96 To 9999. %



MAT 7043

Kerma non-elastic (all but mt2)  
Cross Section

70-Yb-174  
-98.17 To 9999. %



52

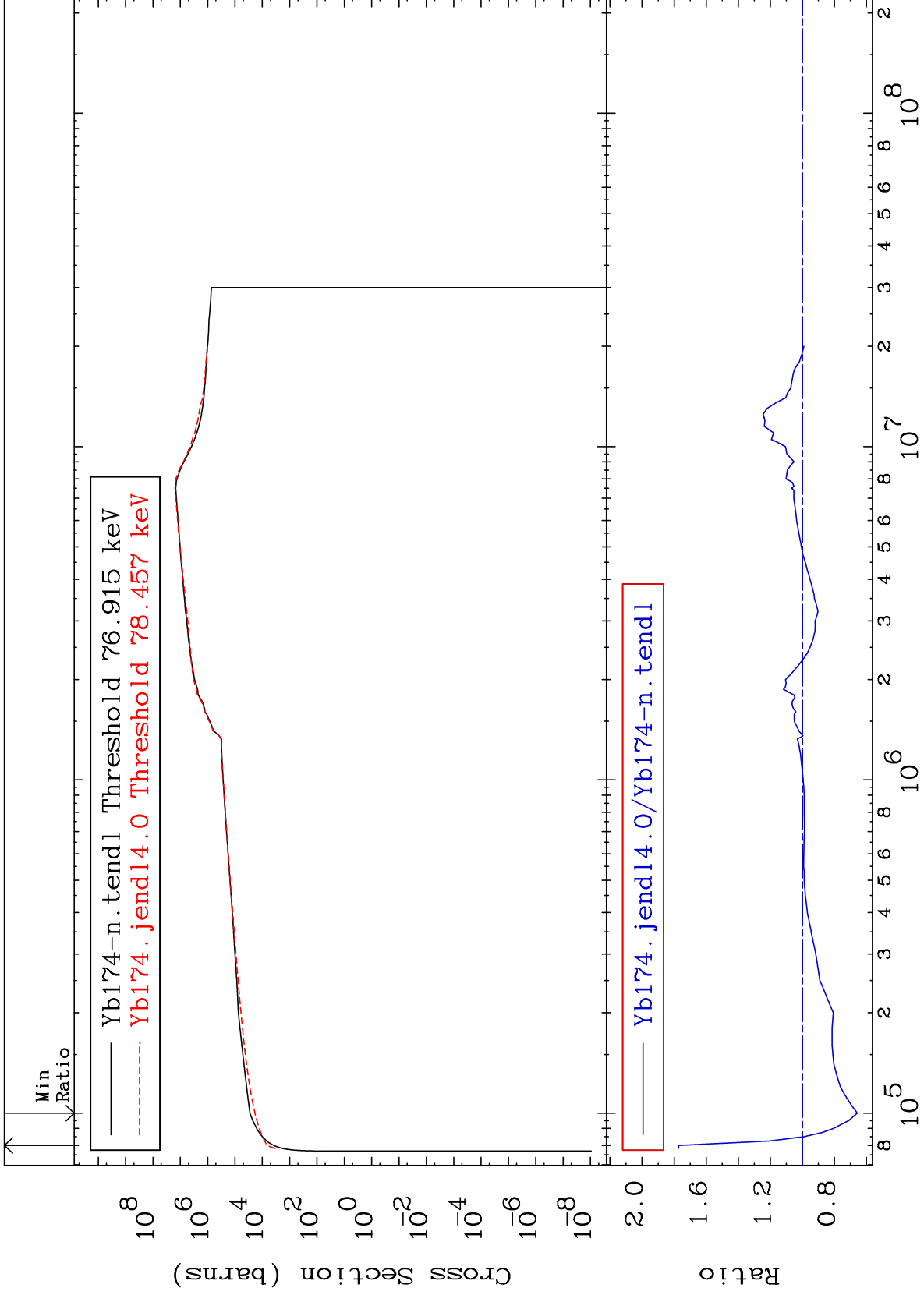
Incident Energy (eV)

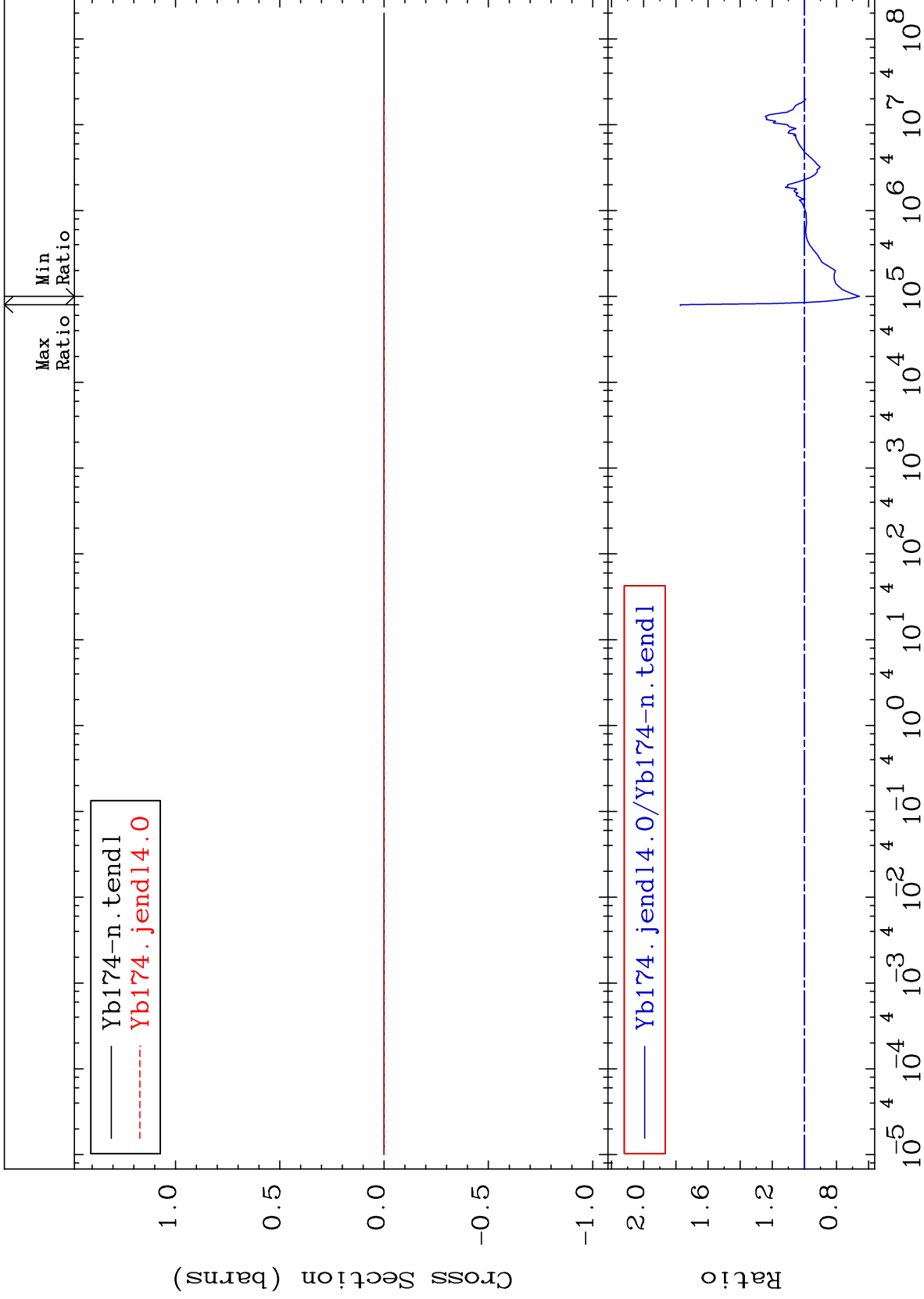
70-Yb-174

MAT 7043

Kerma inelastic (mt51-91)  
Cross Section

70-Yb-174  
-34.23 To 77.20 %

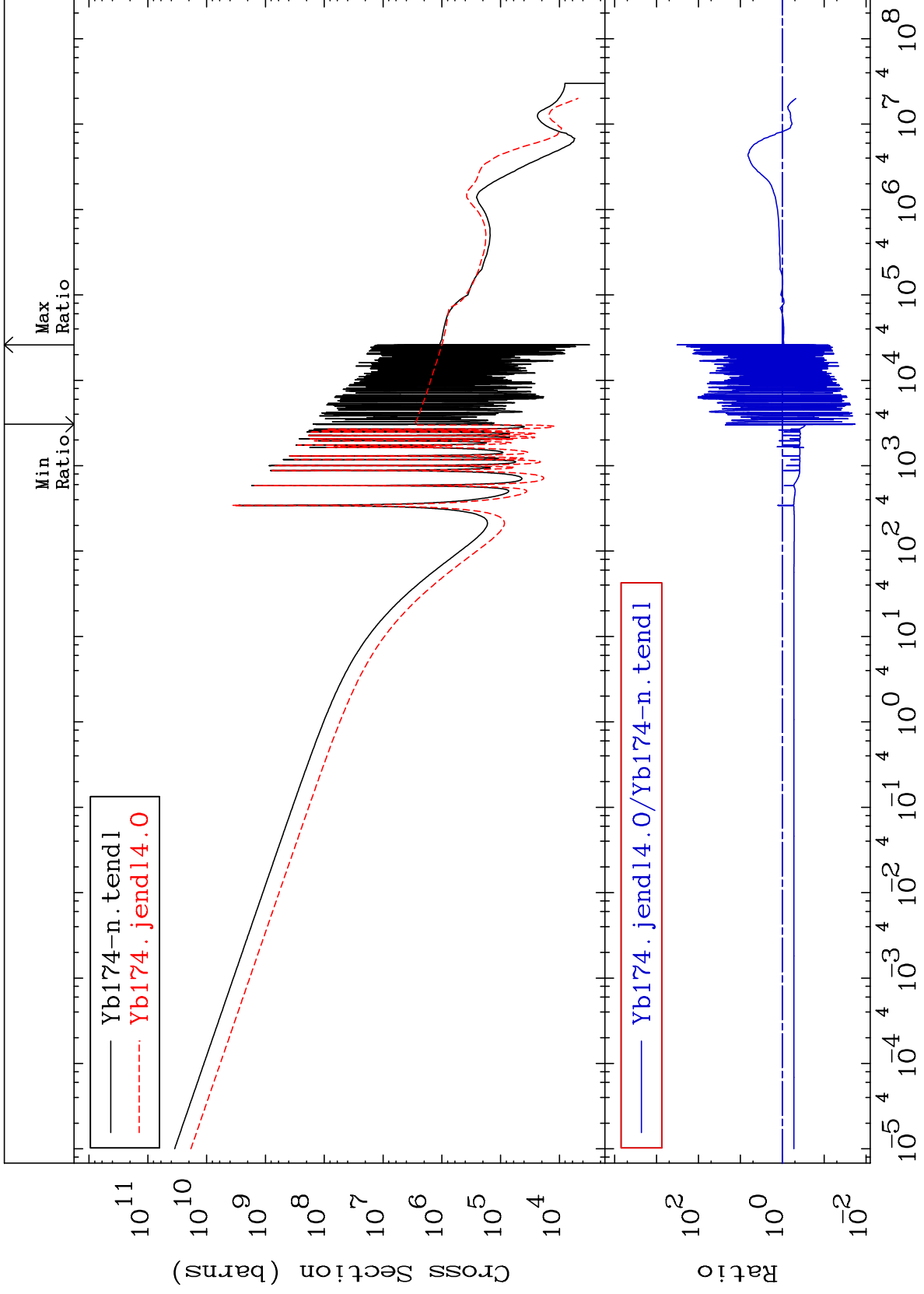




MAT 7043

Kerma capture (mt102)  
Cross Section

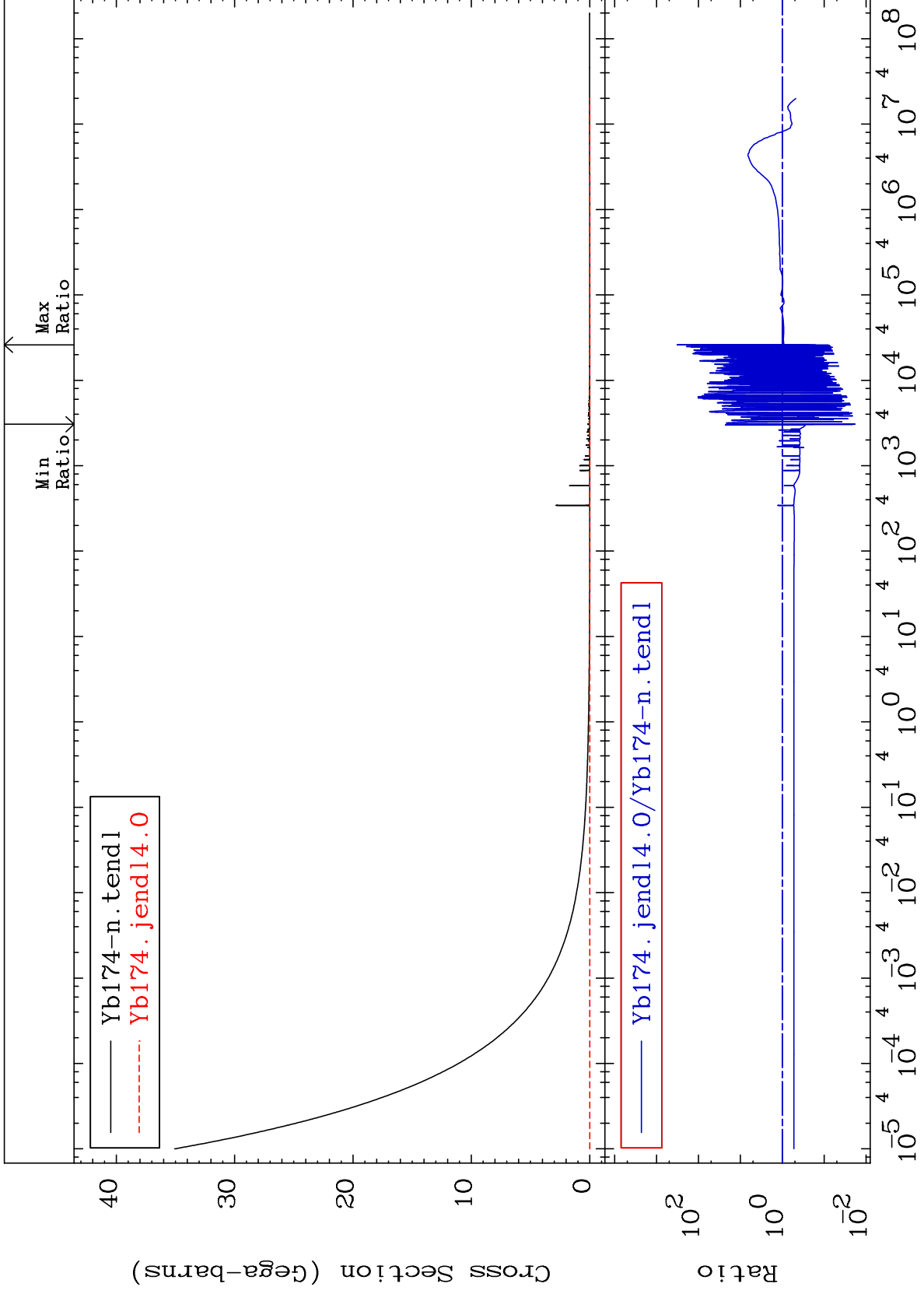
70-Yb-174  
-98.17 To 9999. %



MAT 7043

Total photon (eV-barns)  
Cross Section

70-Yb-174  
-98.17 To 9999. %





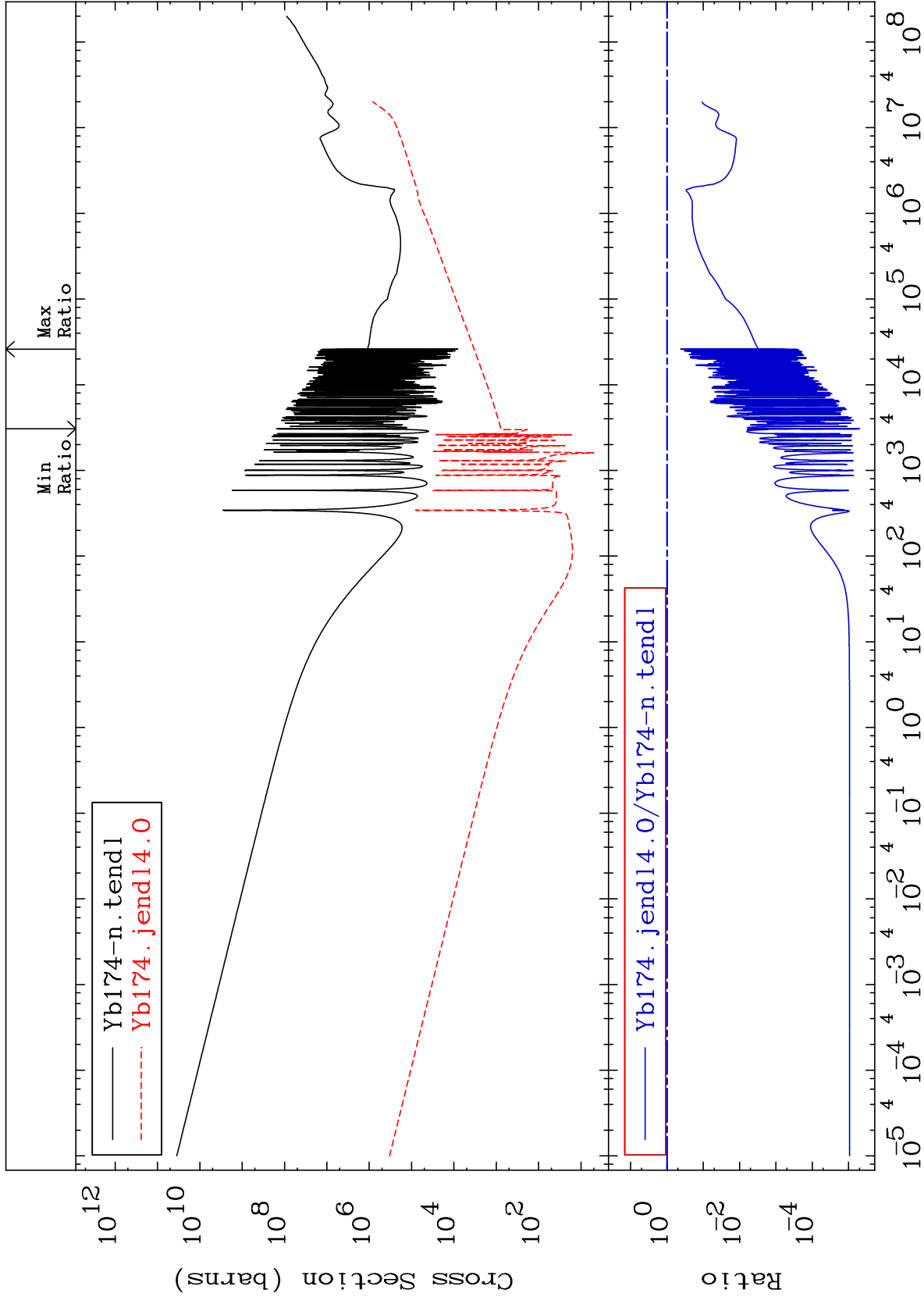
MAT 7043

Total kinematic kerma (high limit)

70-Yb-174

Cross Section

-100.0 To -58.32%



57

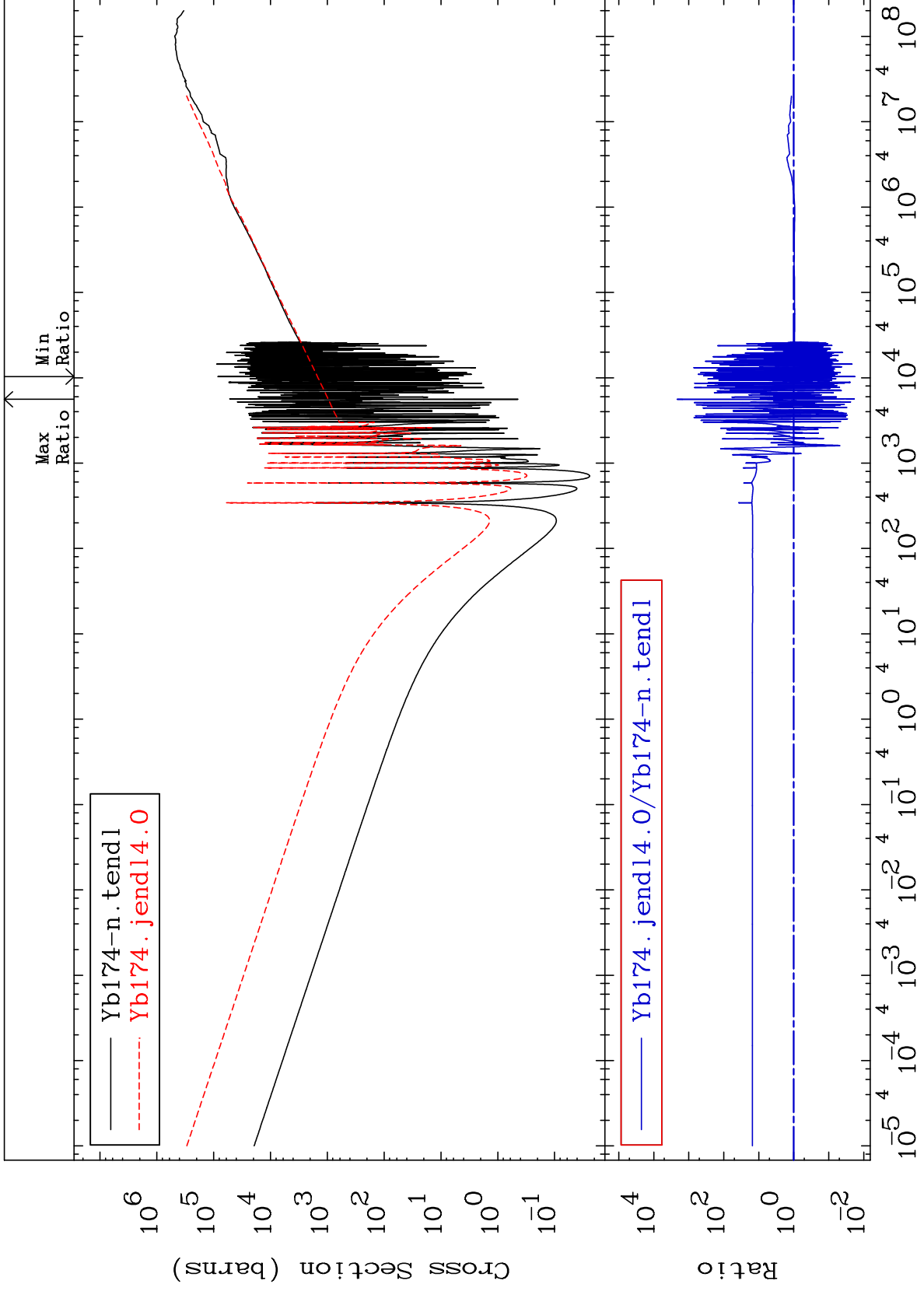
Incident Energy (eV)

70-Yb-174

MAT 7043

Dpa total (eV-barns)  
Cross Section

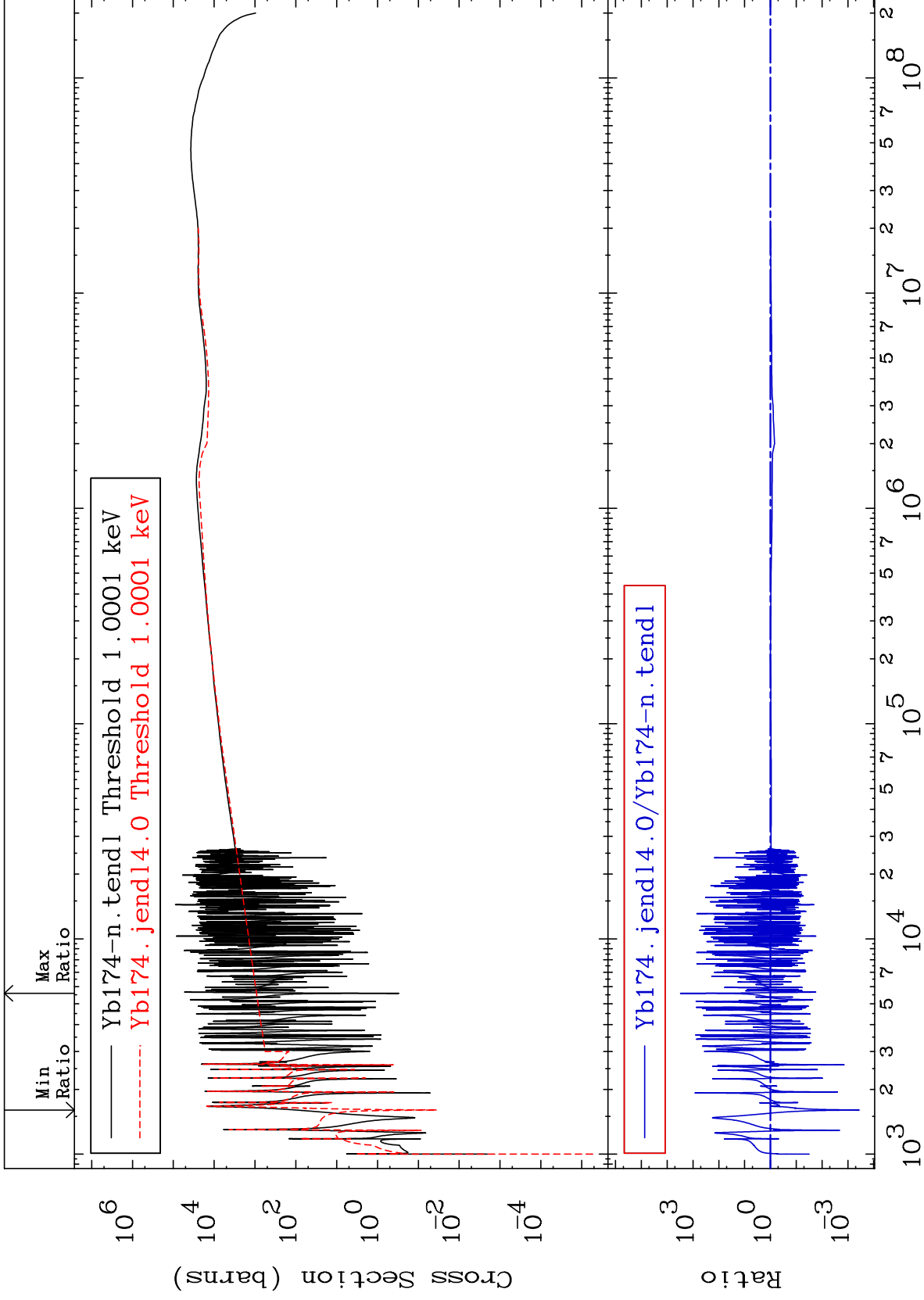
70-Yb-174  
-98.23 To 9999. %



MAT 7043

Dpa elastic (mt2)  
Cross Section

70-Yb-174  
-99.96 To 9999. %



59

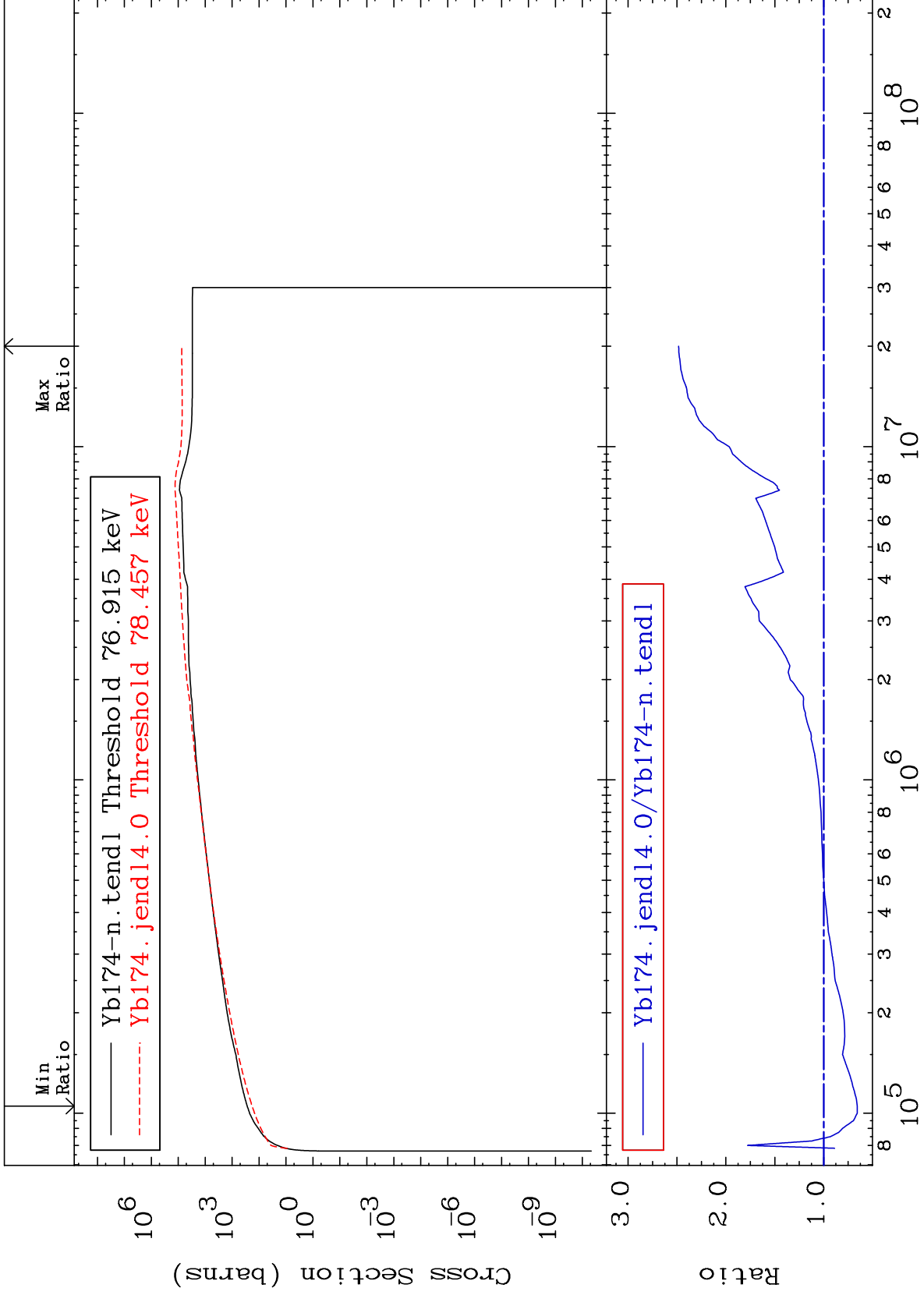
Incident Energy (eV)

70-Yb-174

MAT 7043

Dpa inelastic (mt51-91)  
Cross Section

70-Yb-174  
-34.34 To 148.3 %



60

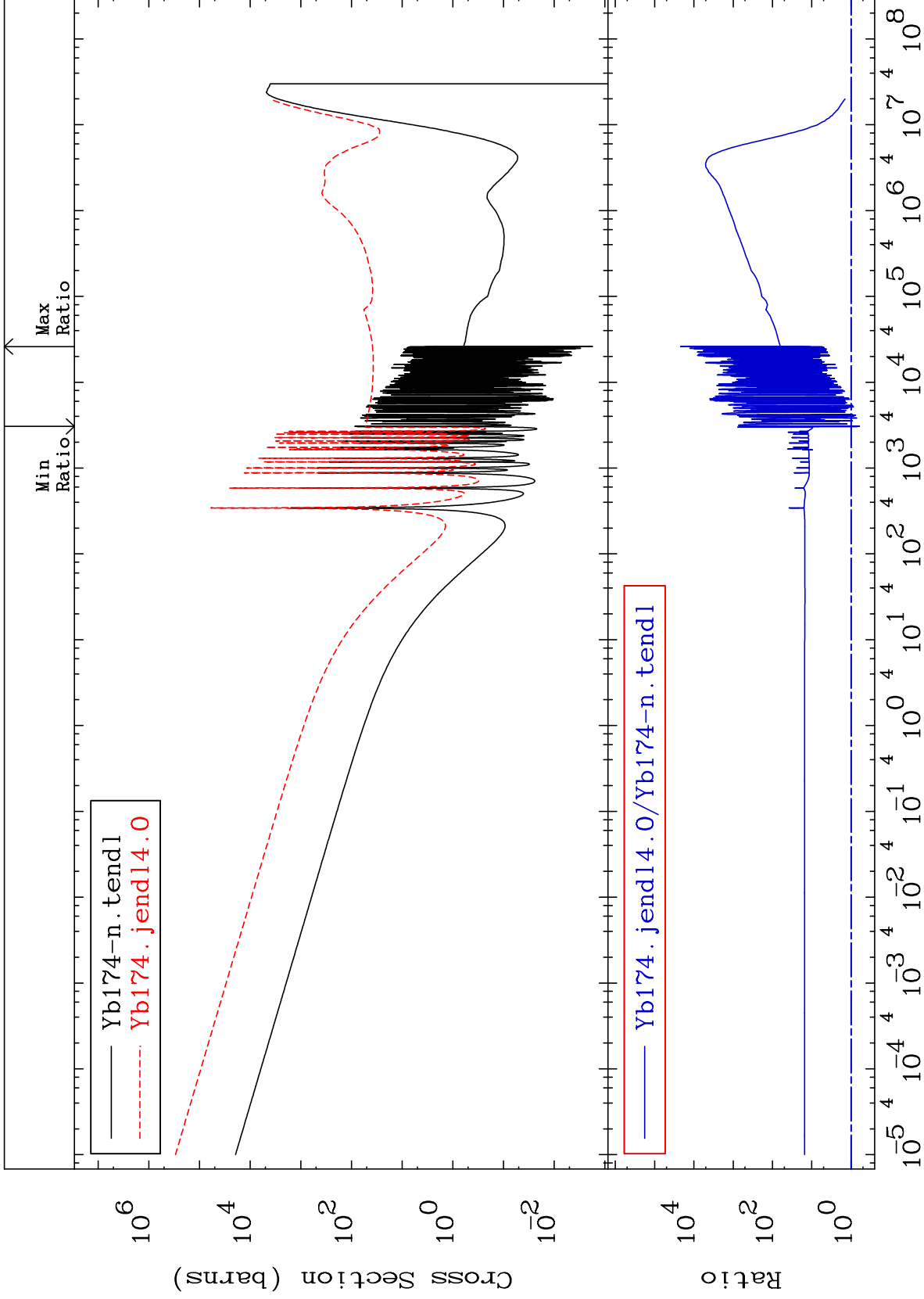
Incident Energy (eV)

70-Yb-174

MAT 7043

Dpa disappearance (mt102 -120)  
Cross Section

70-Yb-174  
-38.79 To 9999. %



61

Incident Energy (eV)

70-Yb-174