

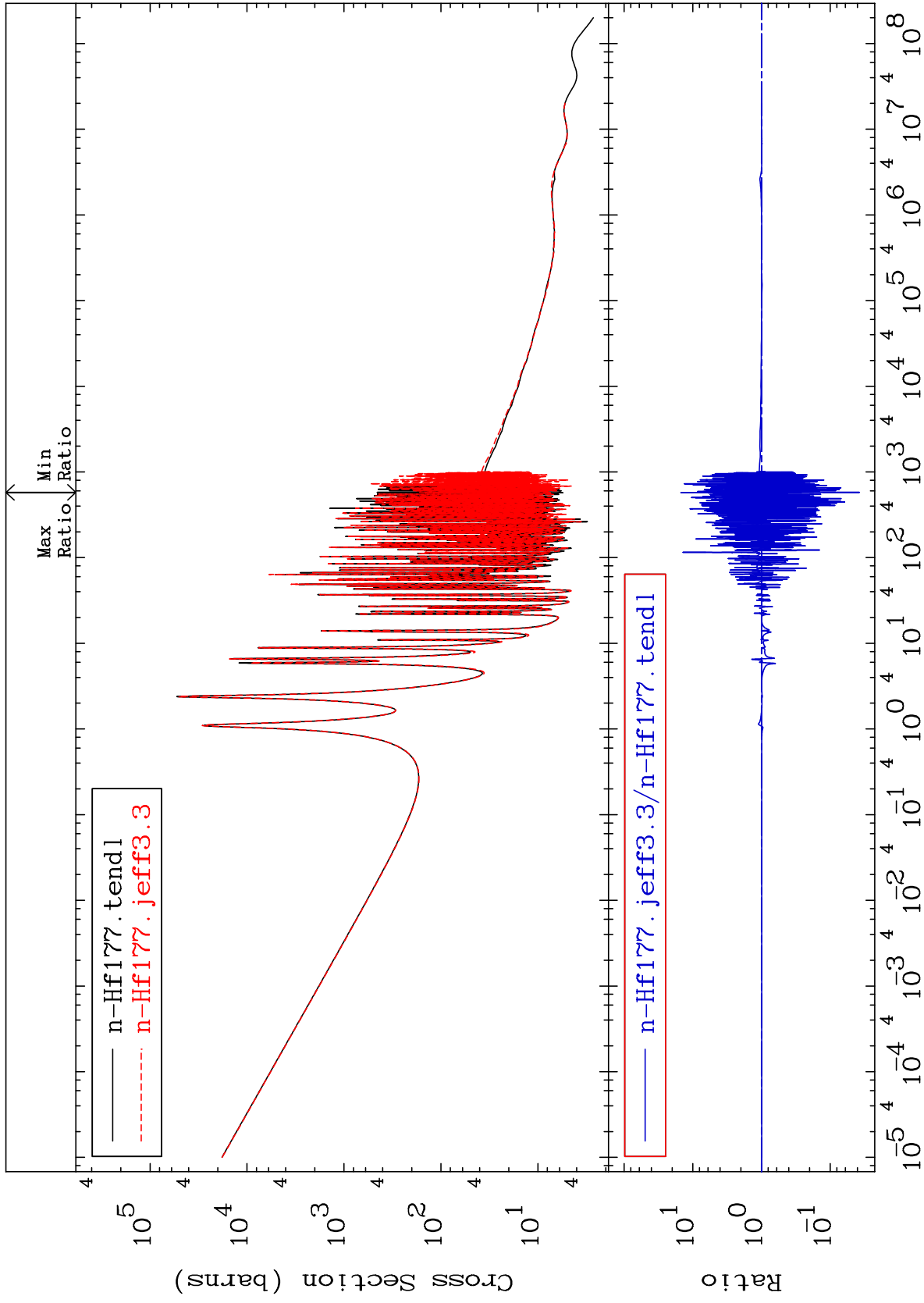
MAT 7234

Total

72-Hf-177

Cross Section

-96.26 To 1397. %



Incident Energy (eV)

72-Hf-177

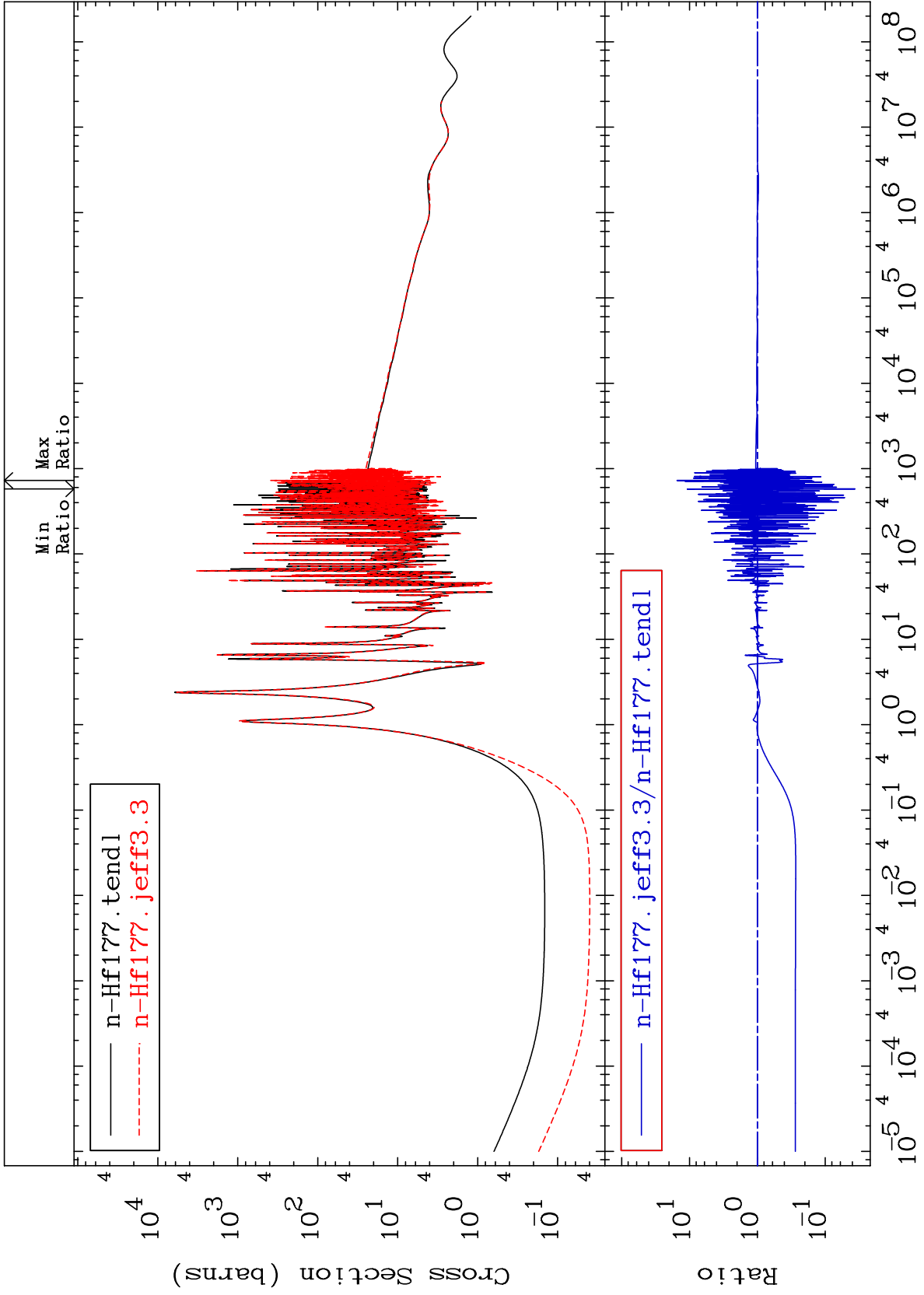
MAT 7234

Elastic

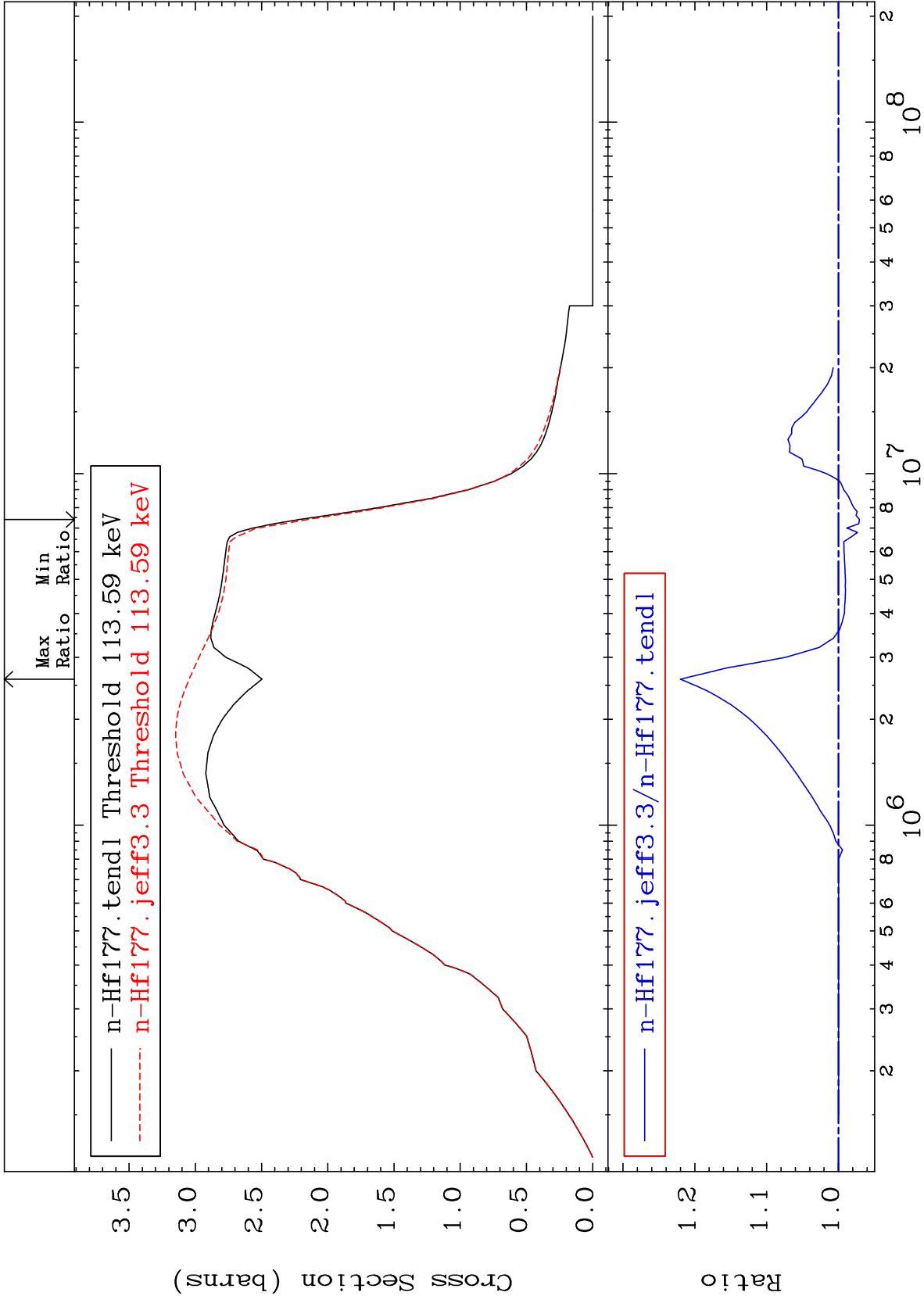
72-Hf-177

Cross Section

-96.36 To 1431. %



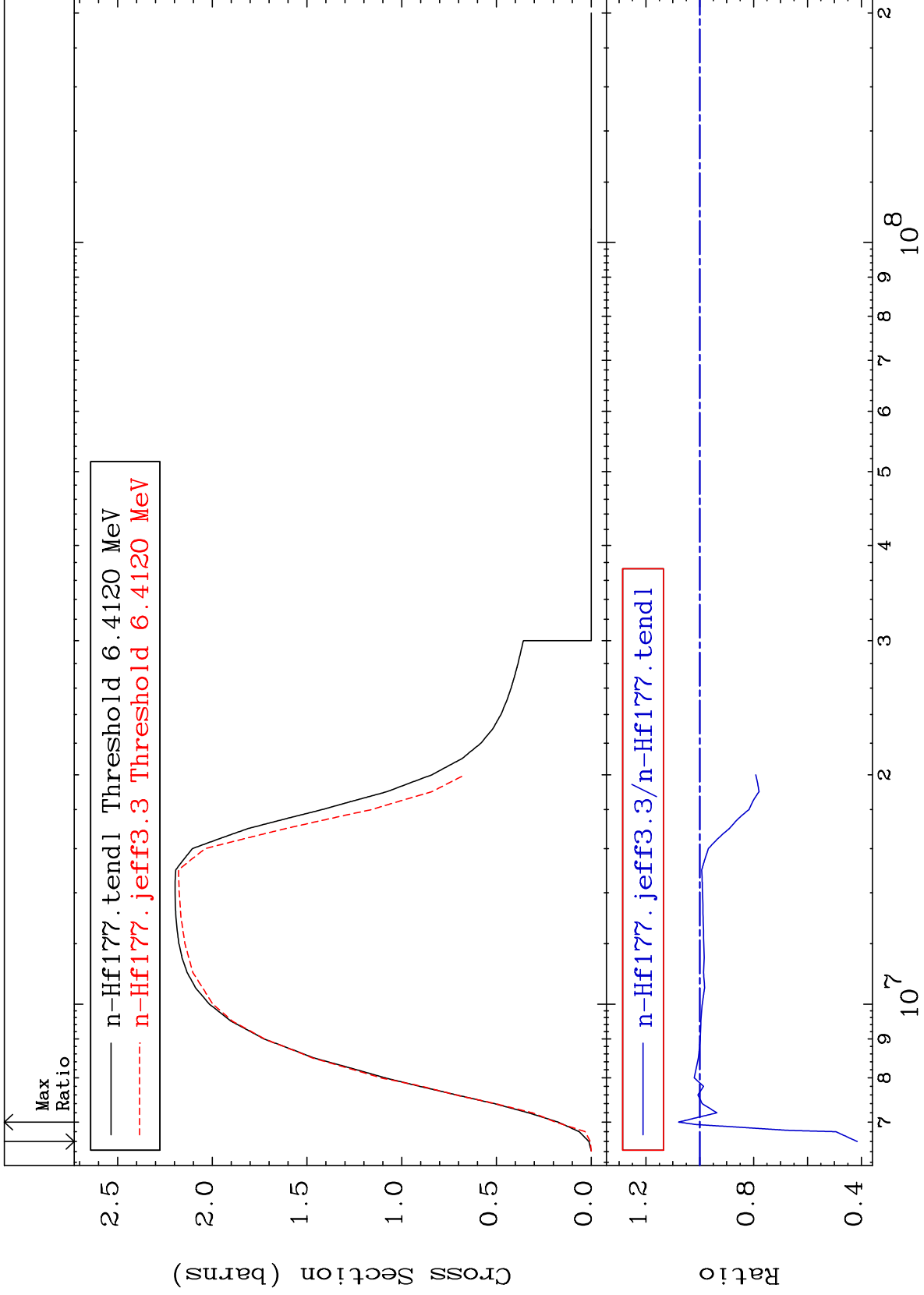
Inelastic  
Cross Section



MAT 7234

(n,2n)  
Cross Section

72-Hf-177  
-58.49 To 7.852 %



MAT 7234

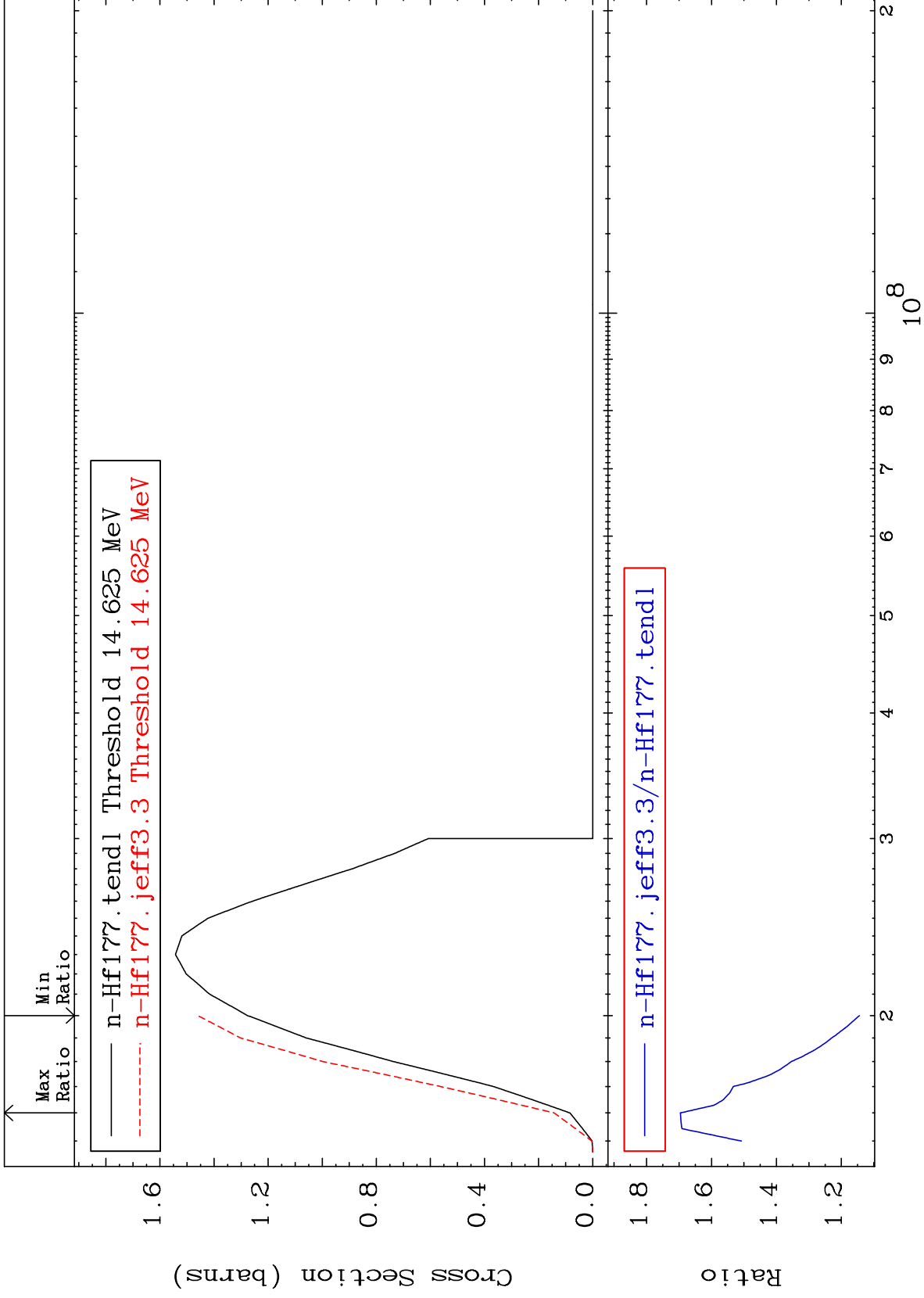
(n,3n)

72-Hf-177

Cross Section

14.44

To 69.59 %



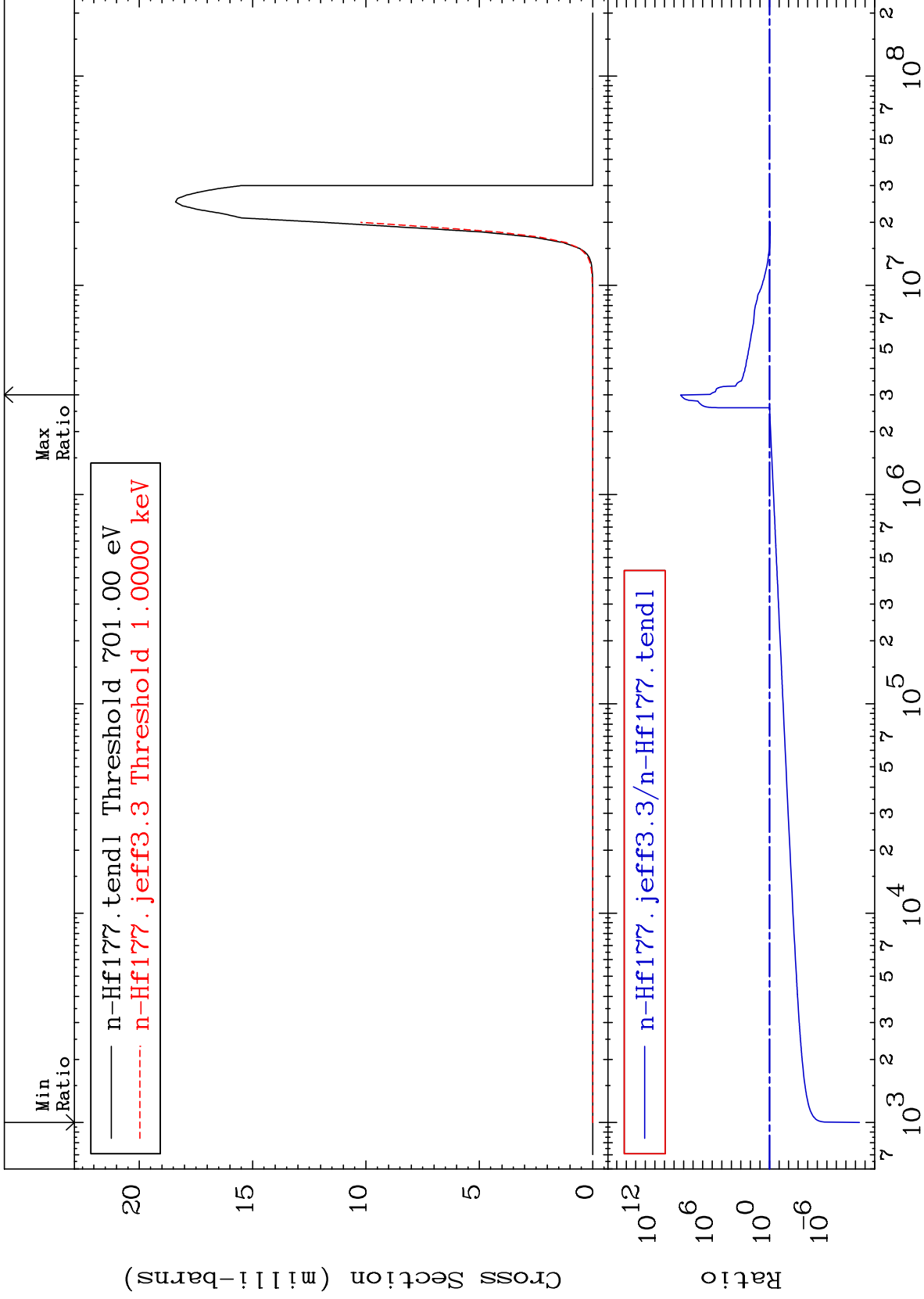
MAT 7234

(n, n')  $\alpha$

72-Hf-177

Cross Section

-100.0 To 9999. %



Incident Energy (eV)

72-Hf-177

6

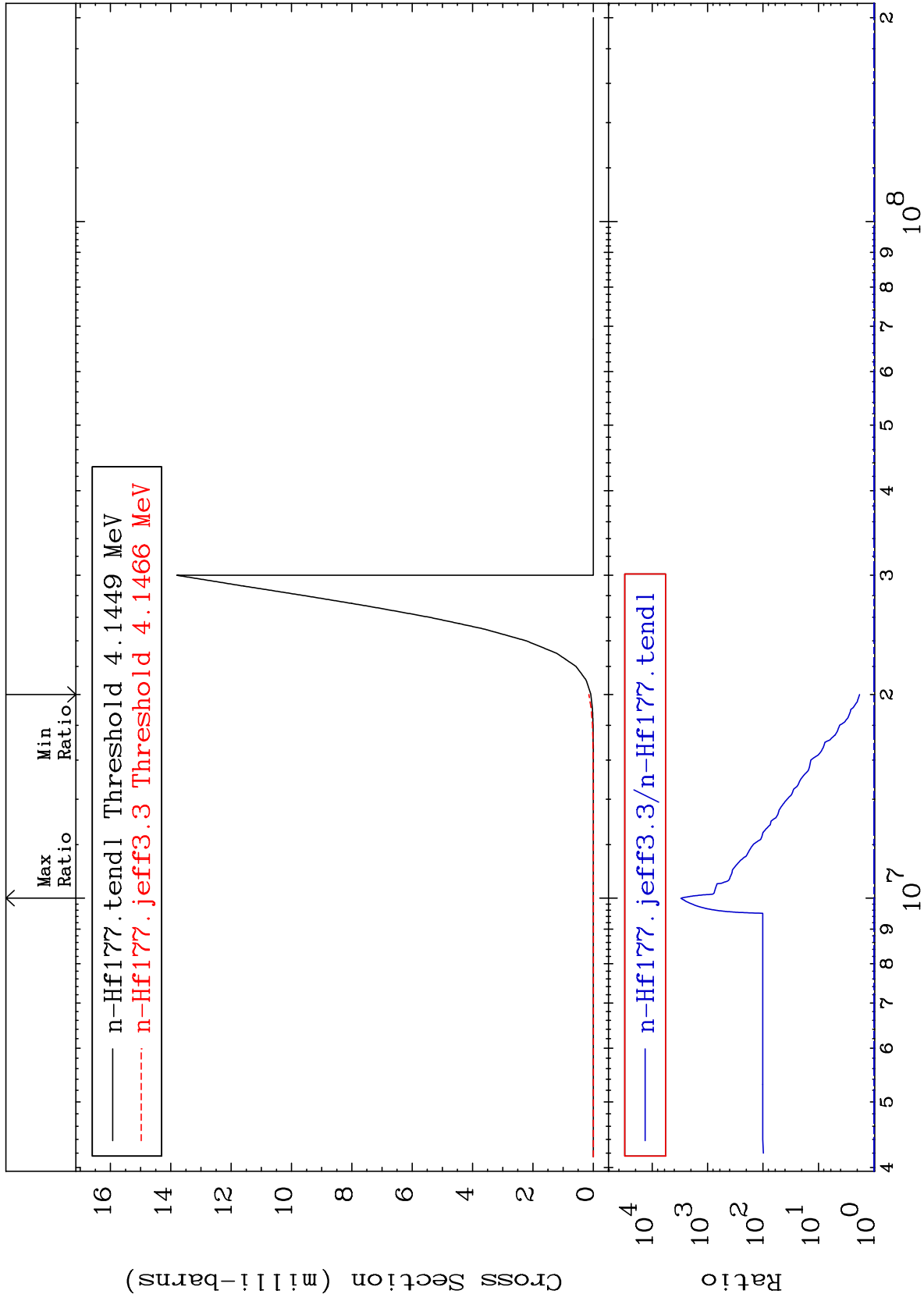
MAT 7234

(n,2n)  $\alpha$

<sup>72</sup>Hf-177

Cross Section

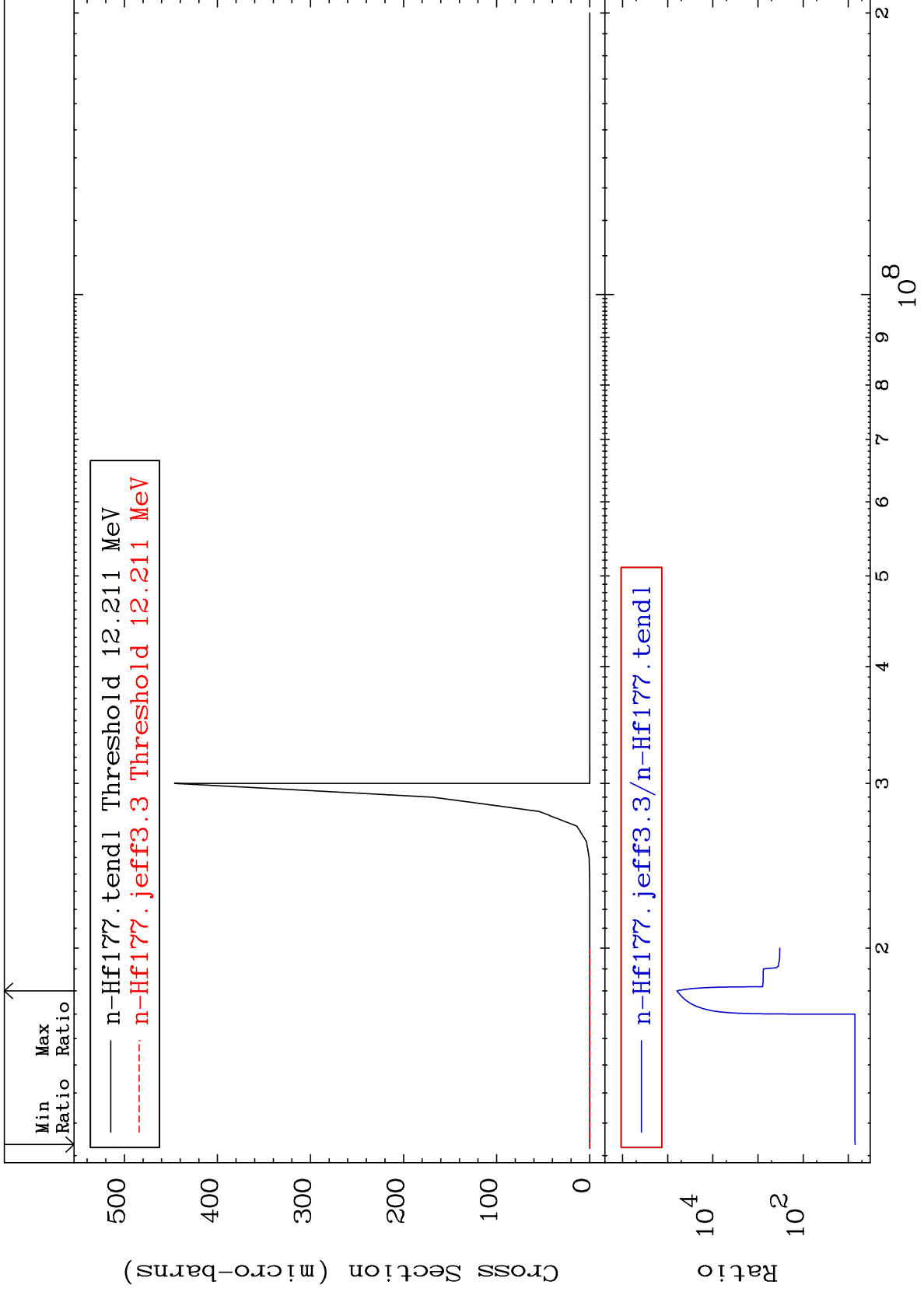
81.24 To 9999. %



MAT 7234

(n,3n)  $\alpha$   
Cross Section

72-Hf-177  
606.9 To 9999. %

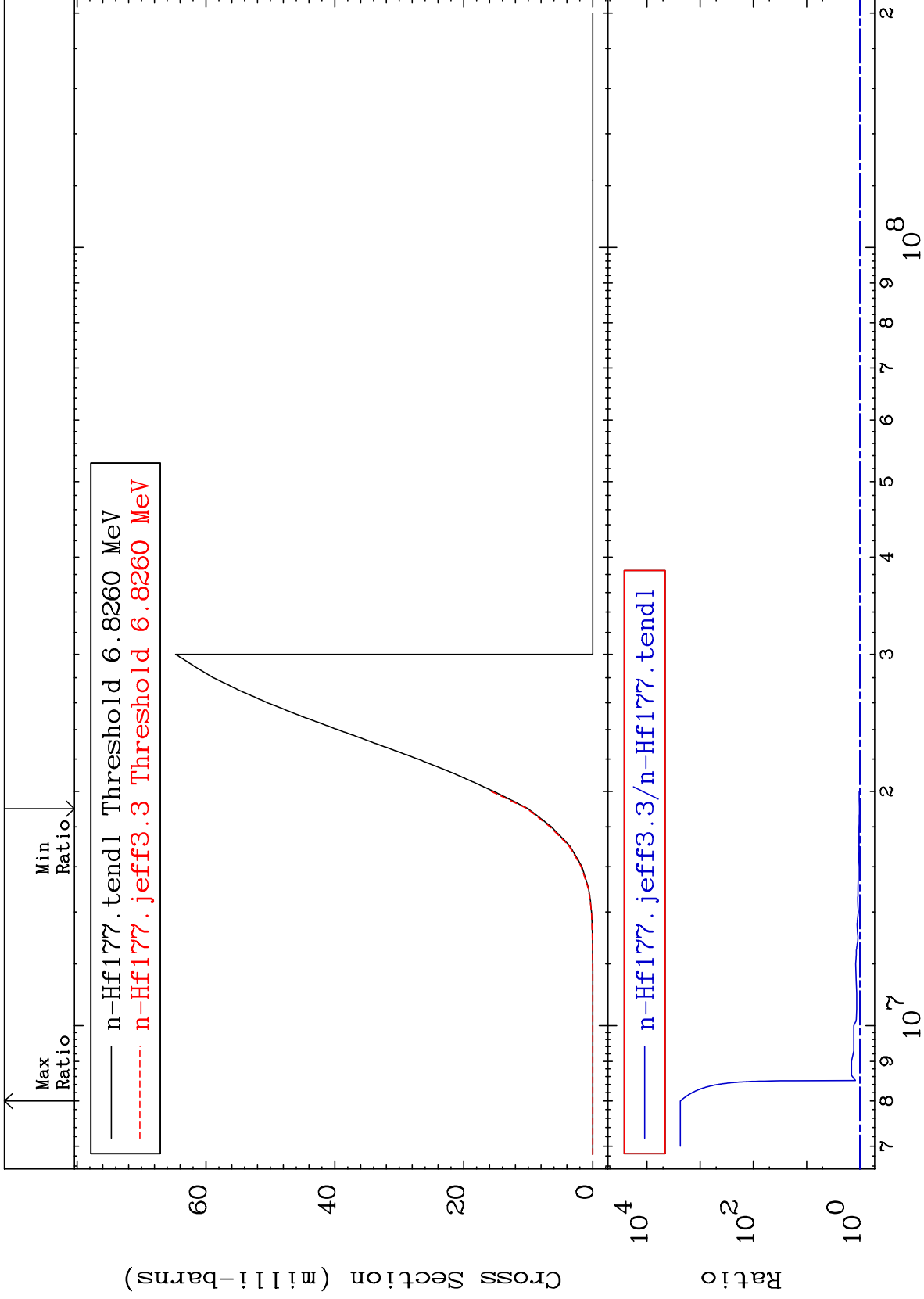




MAT 7234

(n,n') p  
Cross Section

72-Hf-177  
1.602 To 9999. %



9

72-Hf-177

72-Hf-177

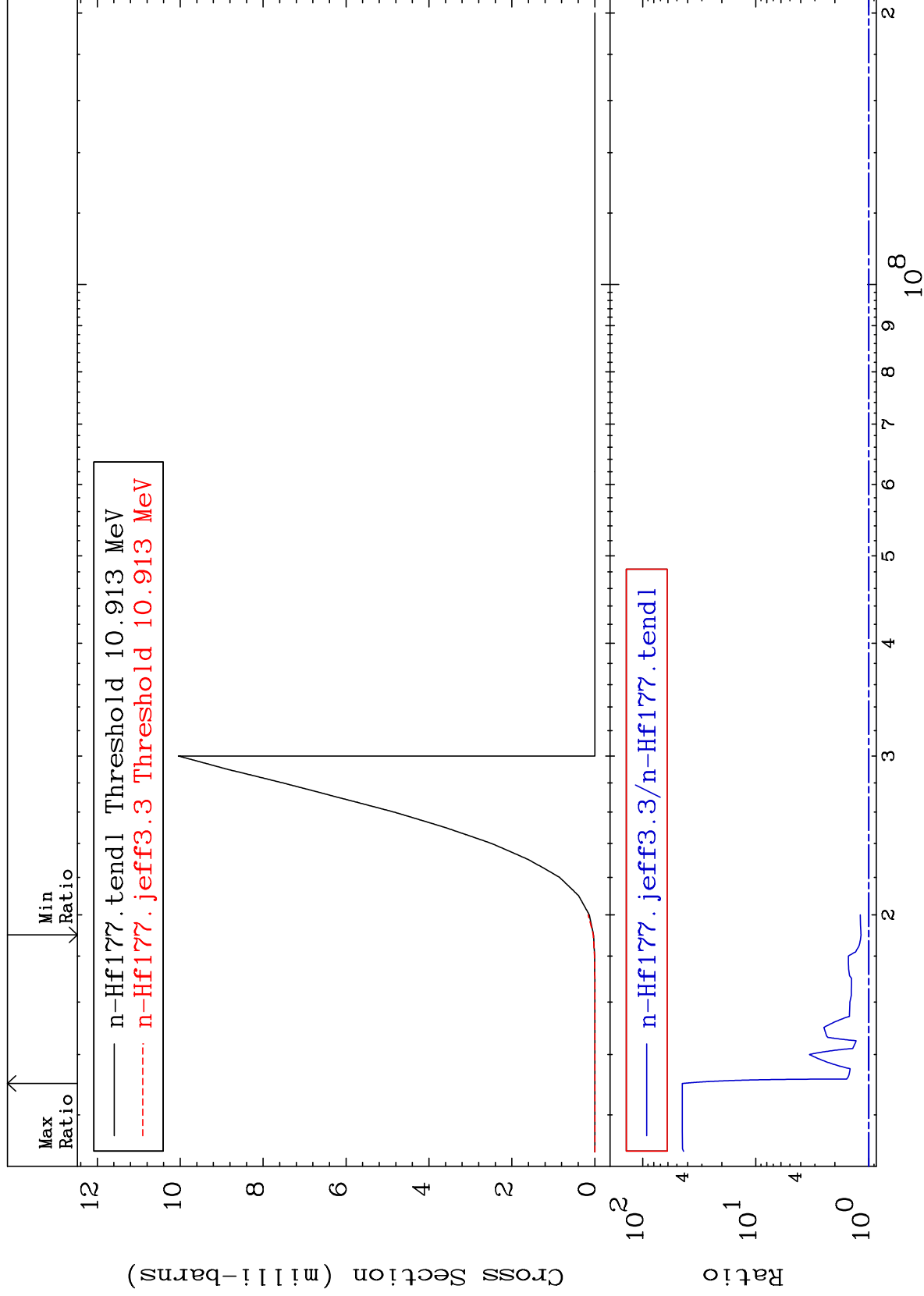
MAT 7234

(n,n') d

72-Hf-177

Cross Section

17.00 To 4372. %



10

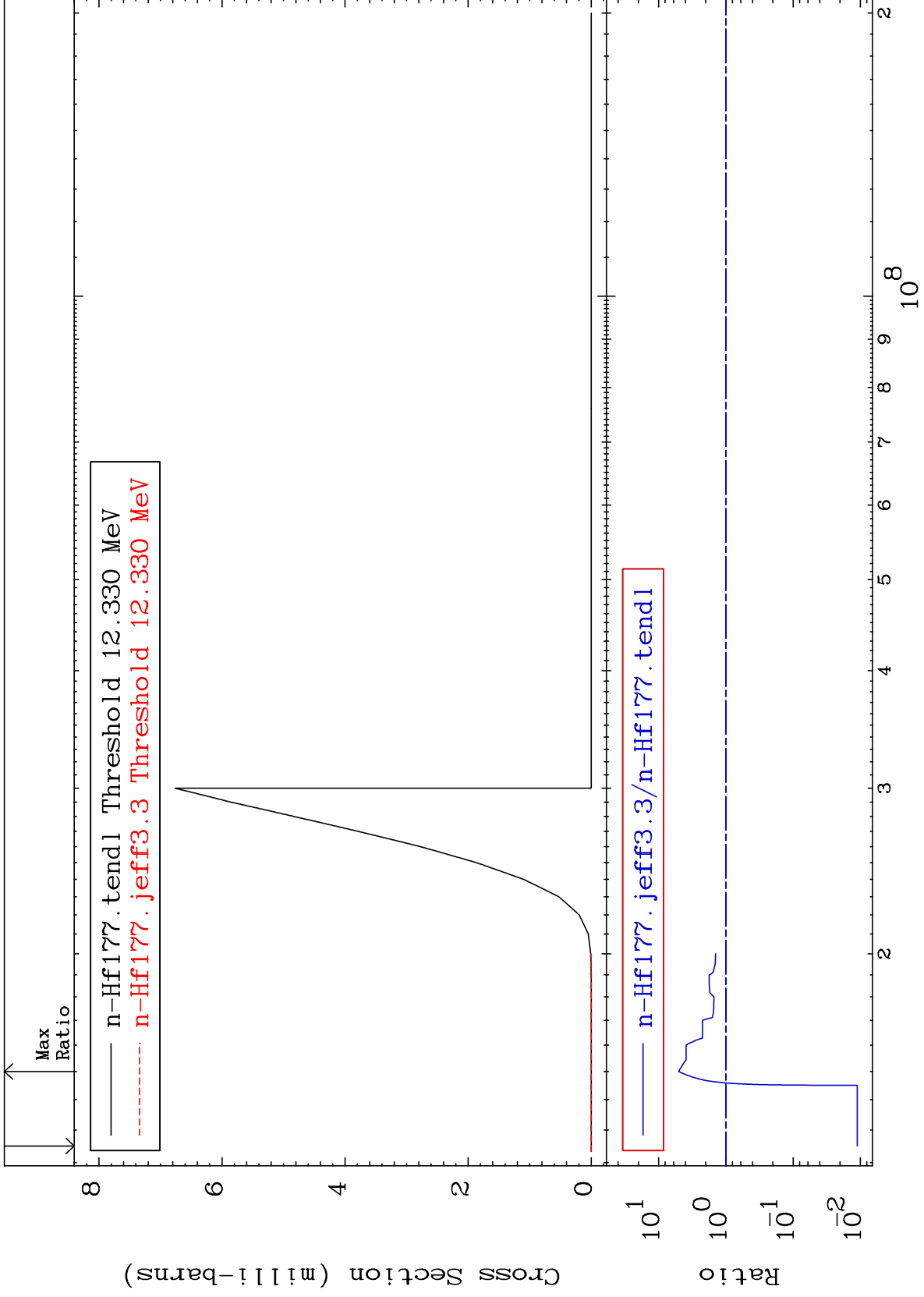
Incident Energy (eV)

72-Hf-177

MAT 7234

(n,n') t  
Cross Section

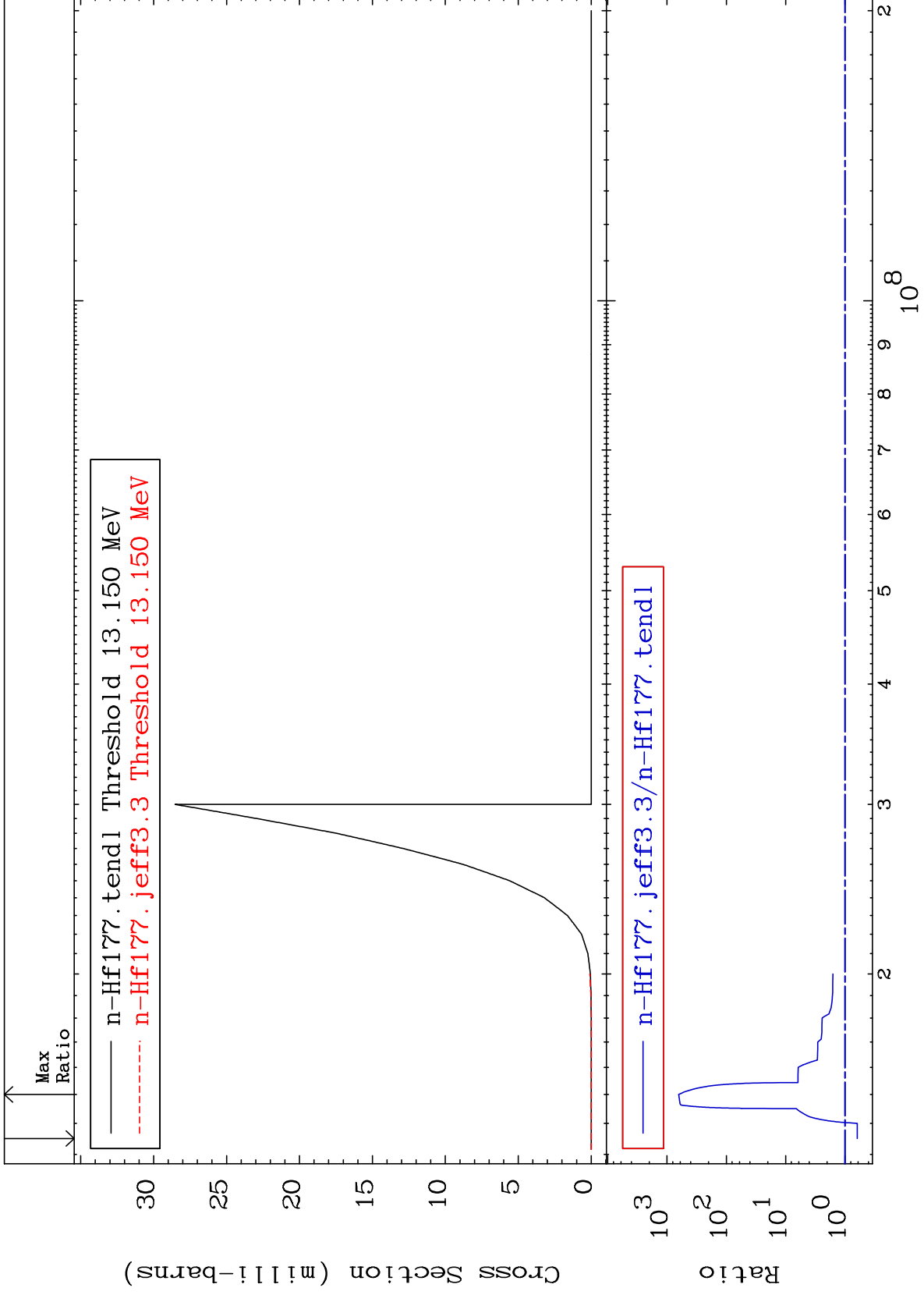
72-Hf-177  
-98.89 To 404.1 %



MAT 7234

(n,2n) p  
Cross Section

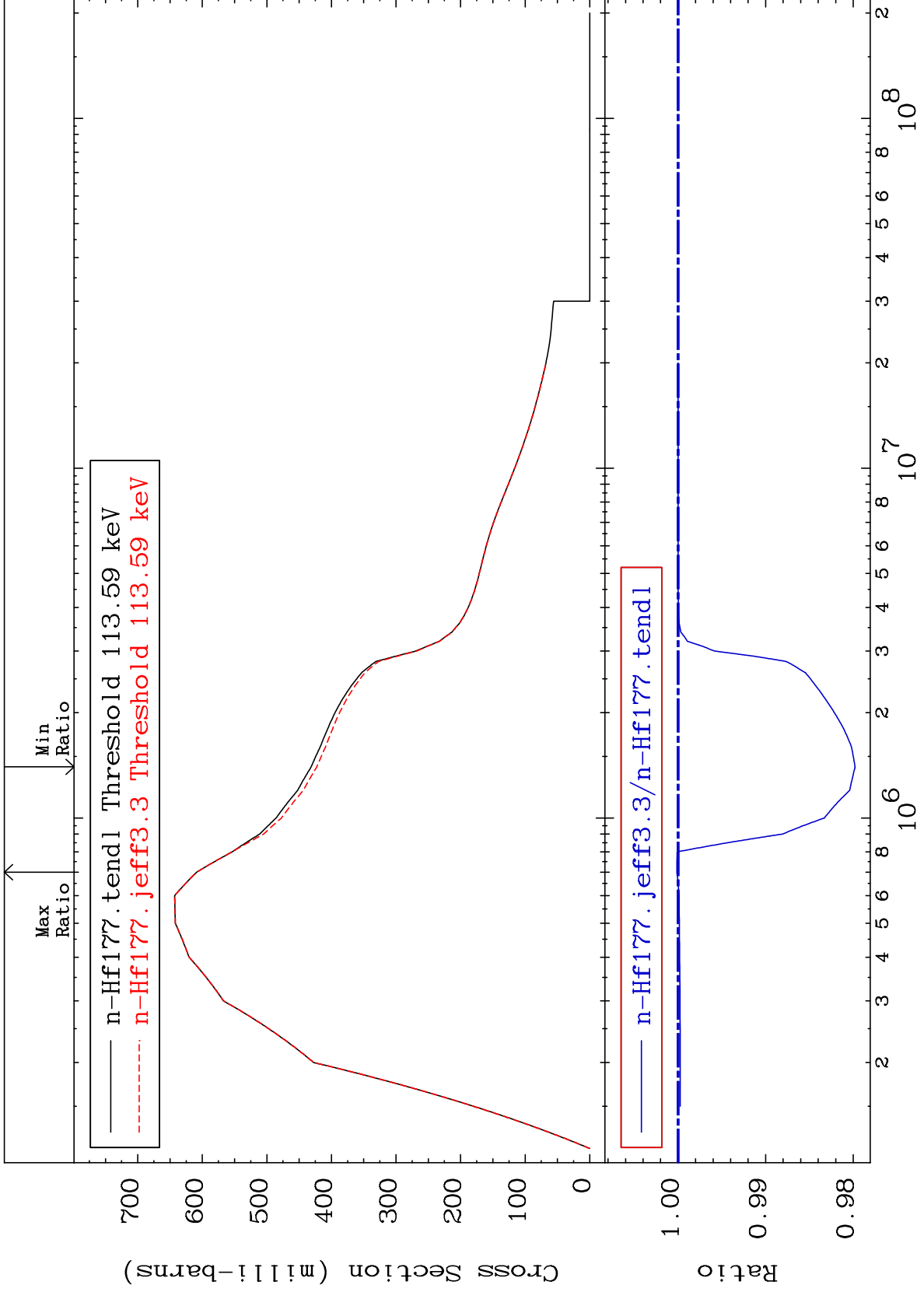
72-Hf-177  
-37.93 To 9999. %



MAT 7234

MT= 51 (n,n') Level  
Cross Section

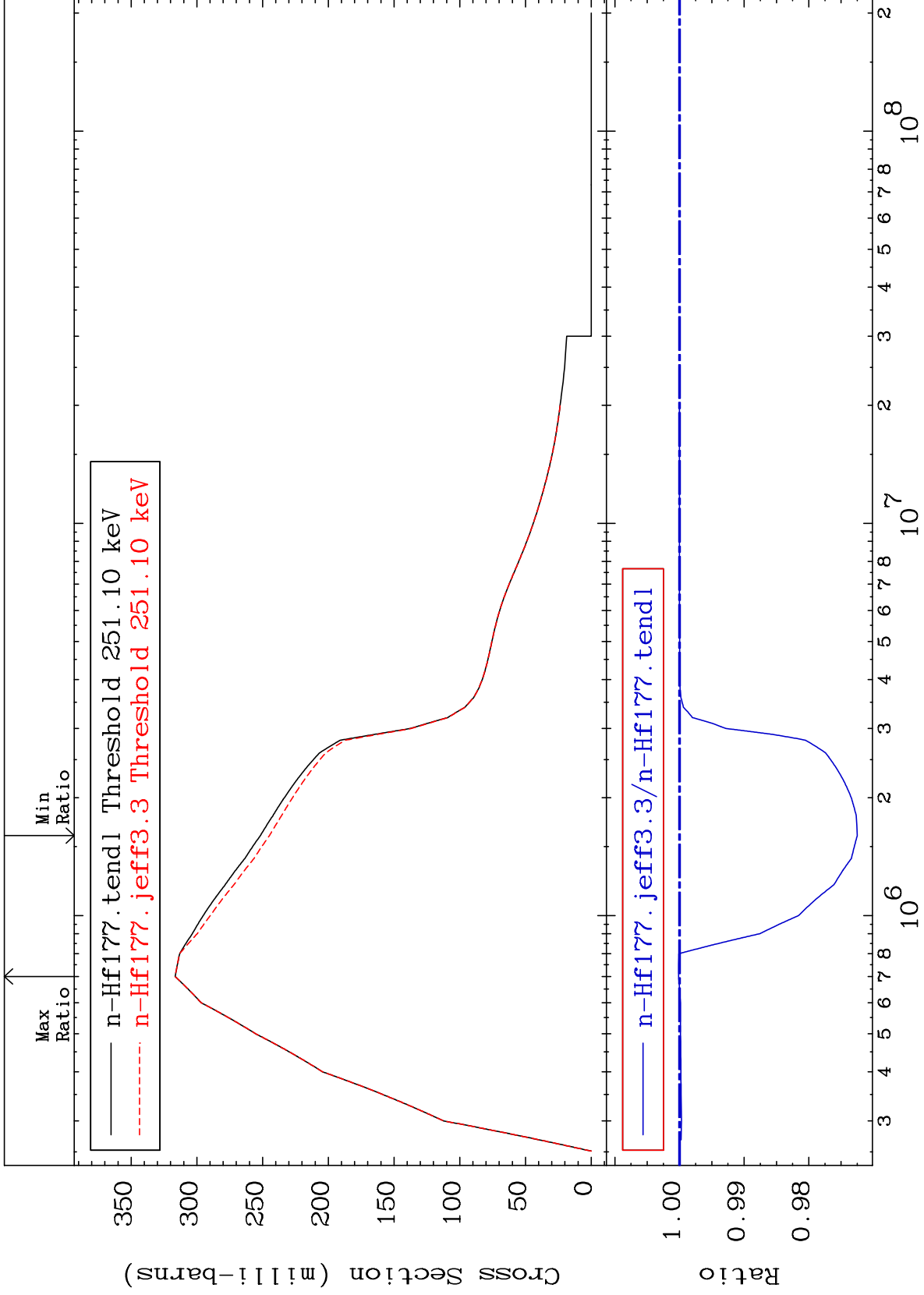
72-Hf-177  
-2.022 To 0.013 %



MAT 7234

MT= 52 (n,n') Level  
Cross Section

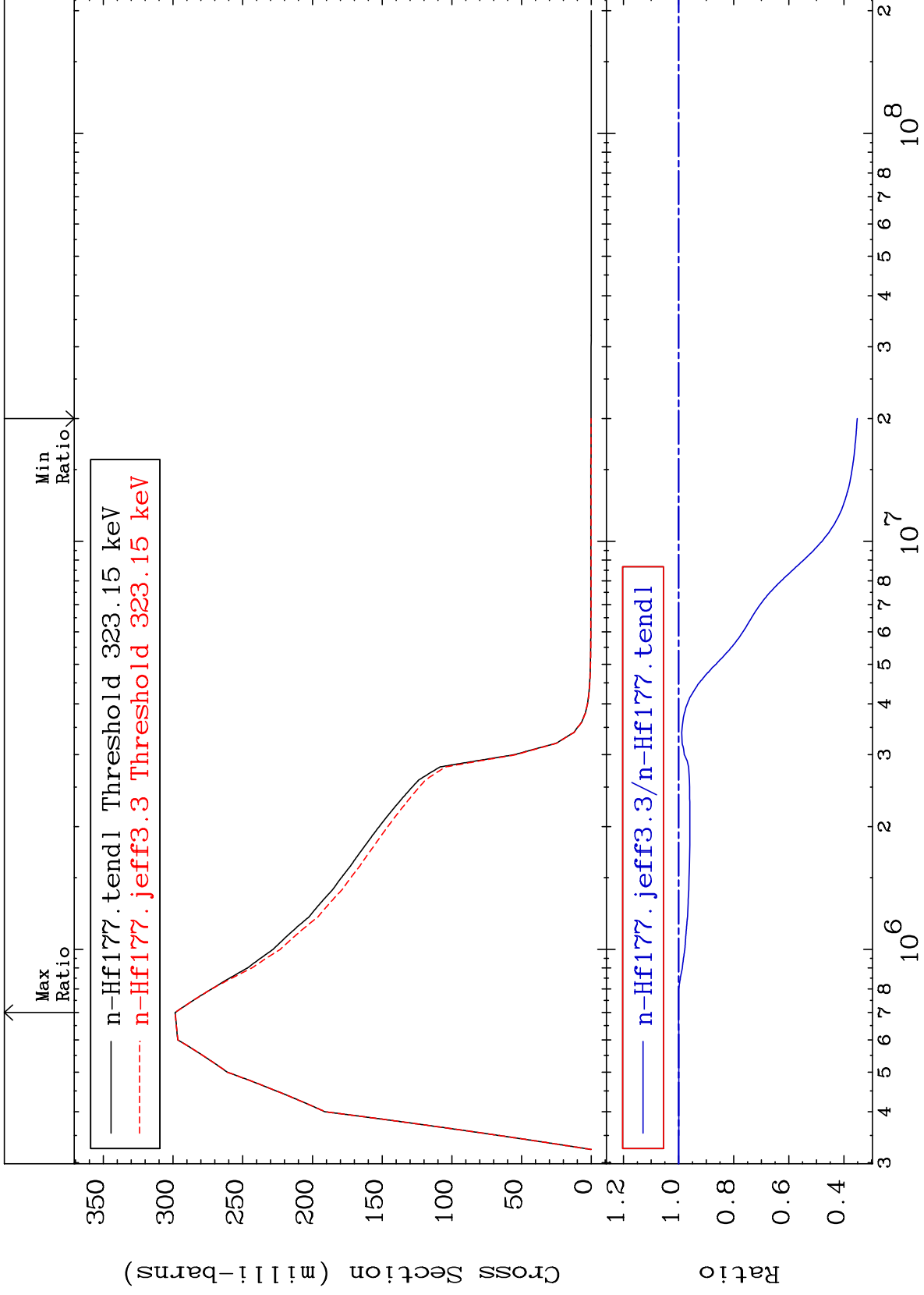
72-Hf-177  
-2.750 To 0.014 %



MAT 7234

MT= 53 (n,n') Level  
Cross Section

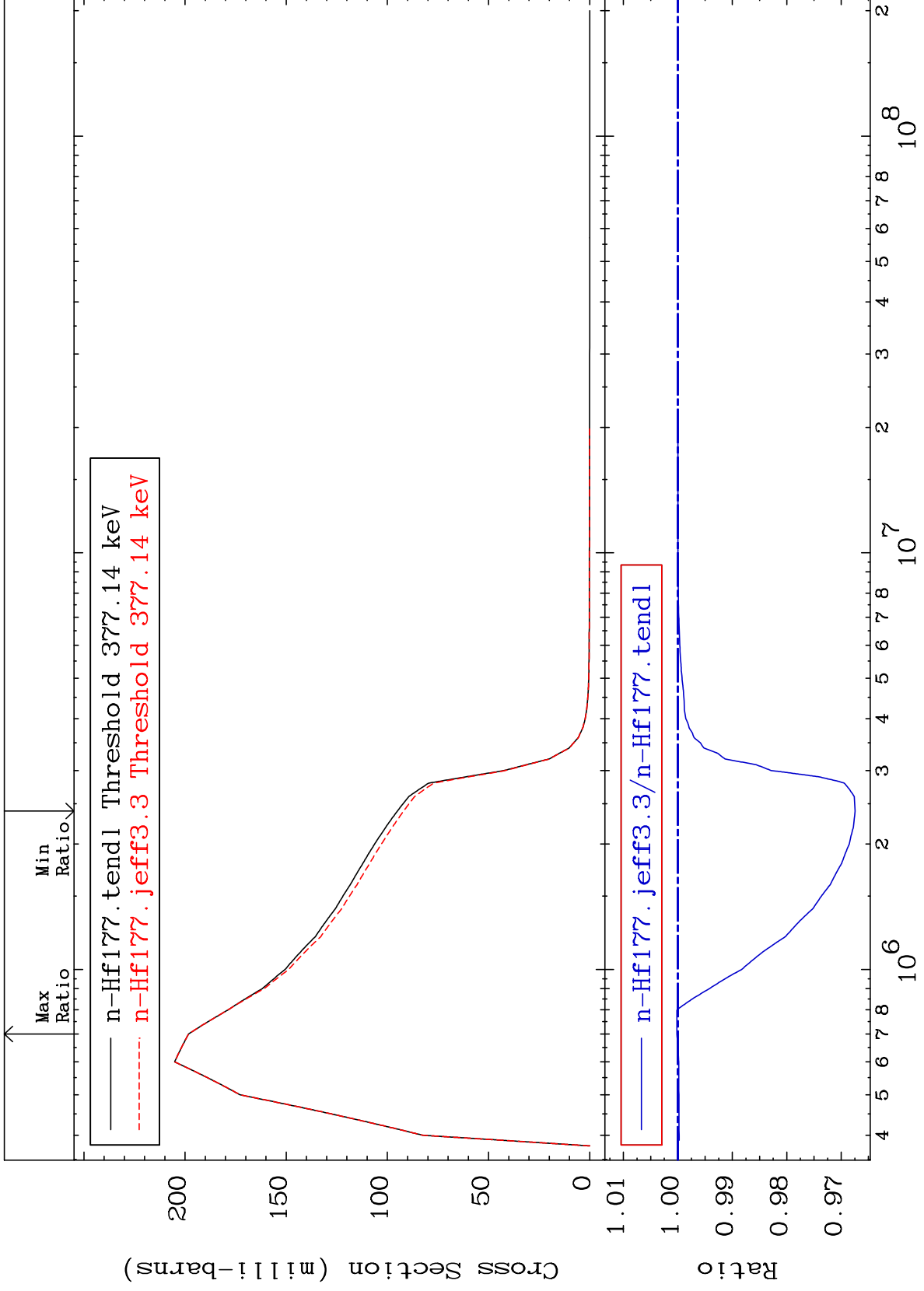
72-Hf-177  
-64.82 To 0.013 %



MAT 7234

MT= 54 (n,n') Level  
Cross Section

72-Hf-177  
-3.255 To 0.018 %

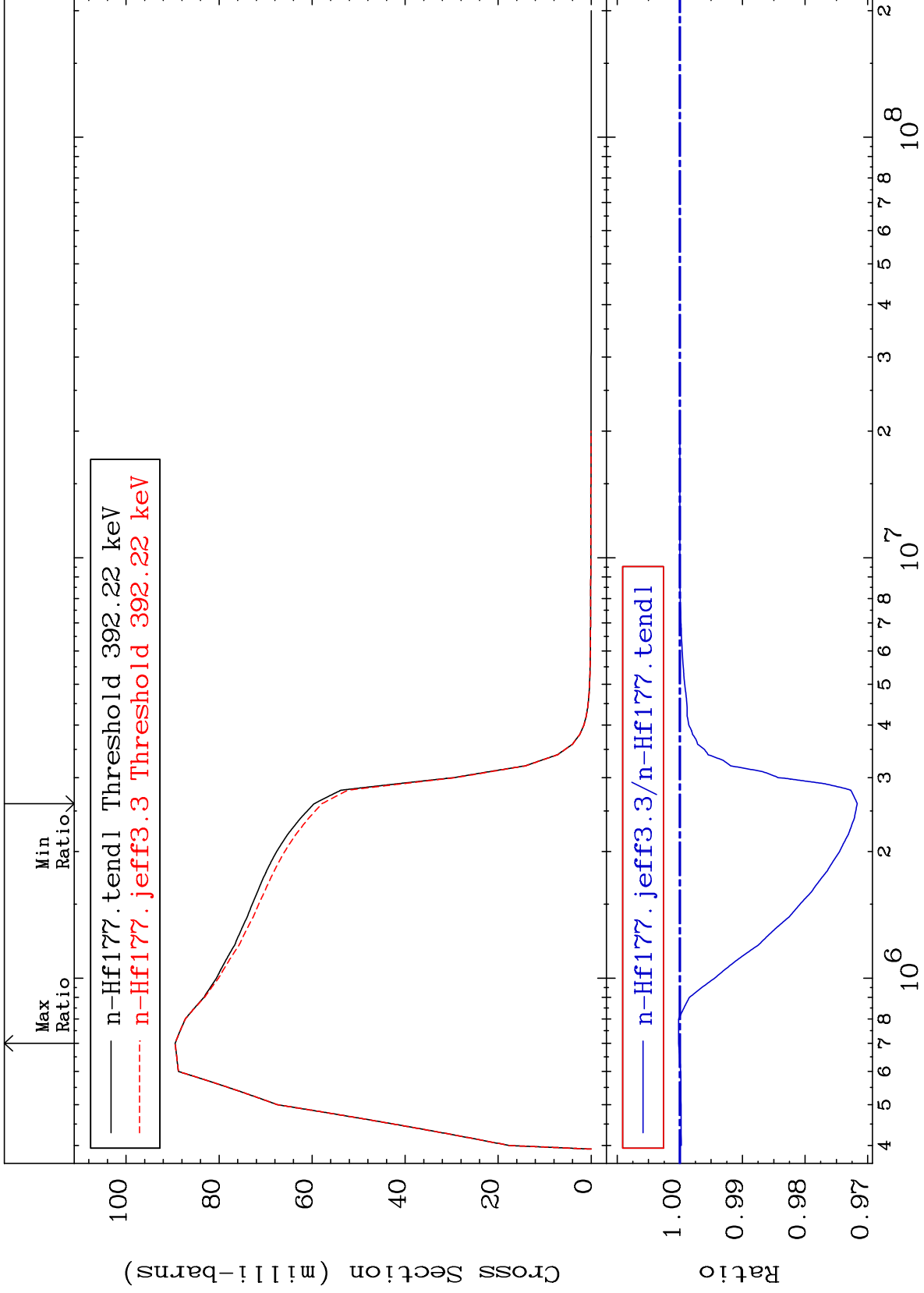




MAT 7234

MT= 55 (n,n') Level  
Cross Section

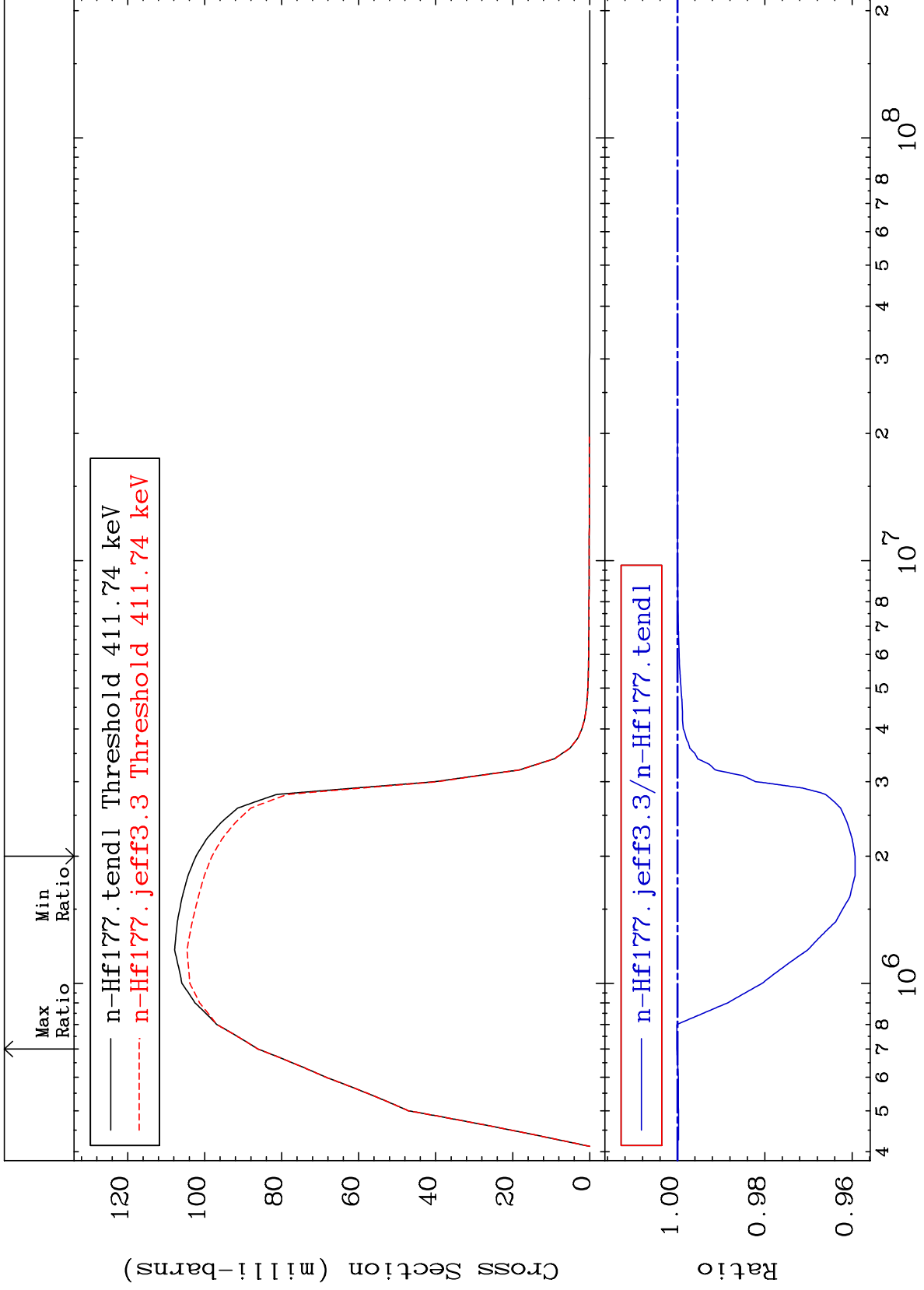
72-Hf-177  
-2.833 To 0.019 %



MAT 7234

MT= 56 (n,n') Level  
Cross Section

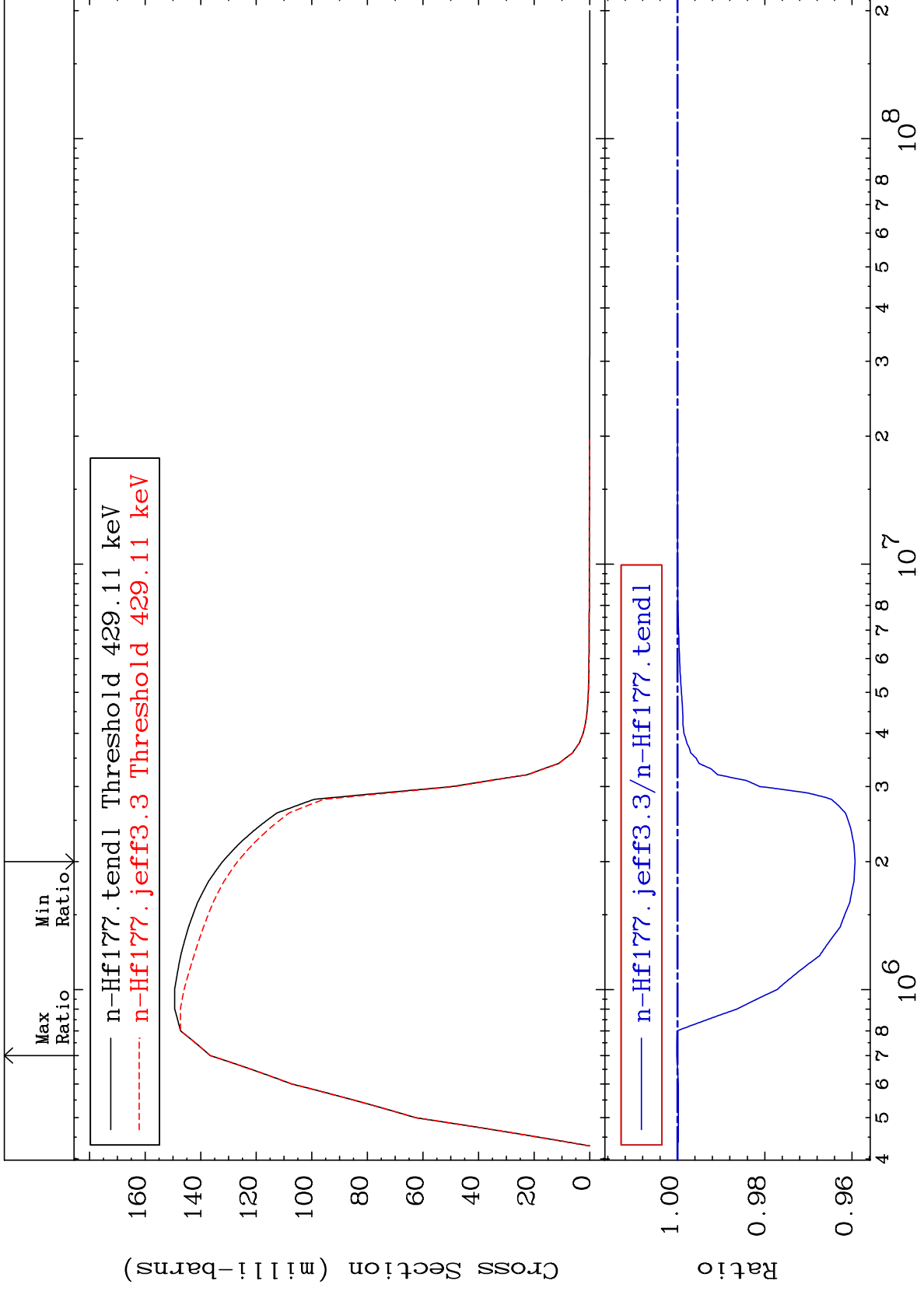
72-Hf-177  
-4.066 To 0.013 %



MAT 7234

MT= 57 (n,n') Level  
Cross Section

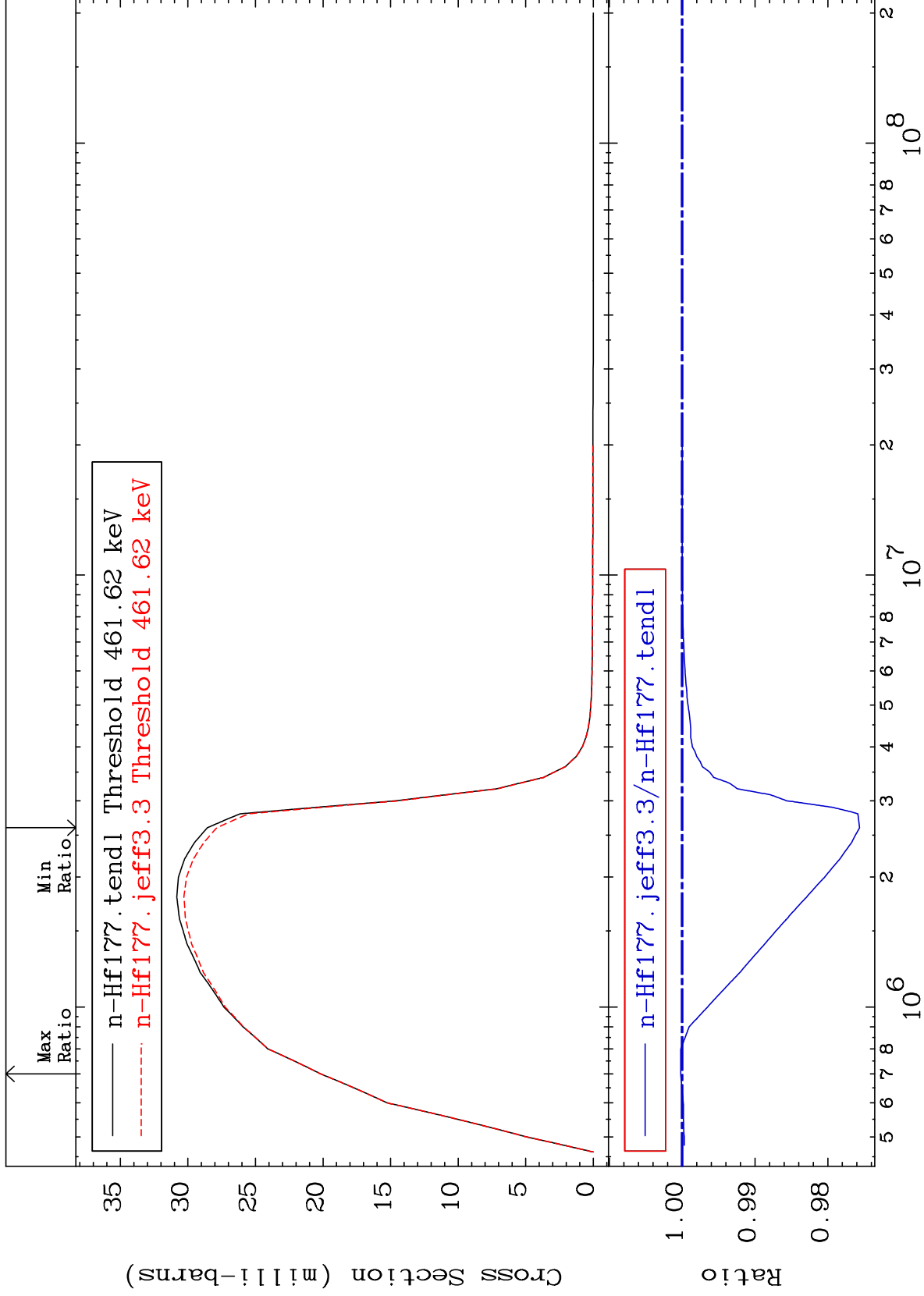
72-Hf-177  
-4.072 To 0.015 %



MAT 7234

MT= 58 (n,n') Level  
Cross Section

72-Hf-177  
-2.436 To 0.019 %



20

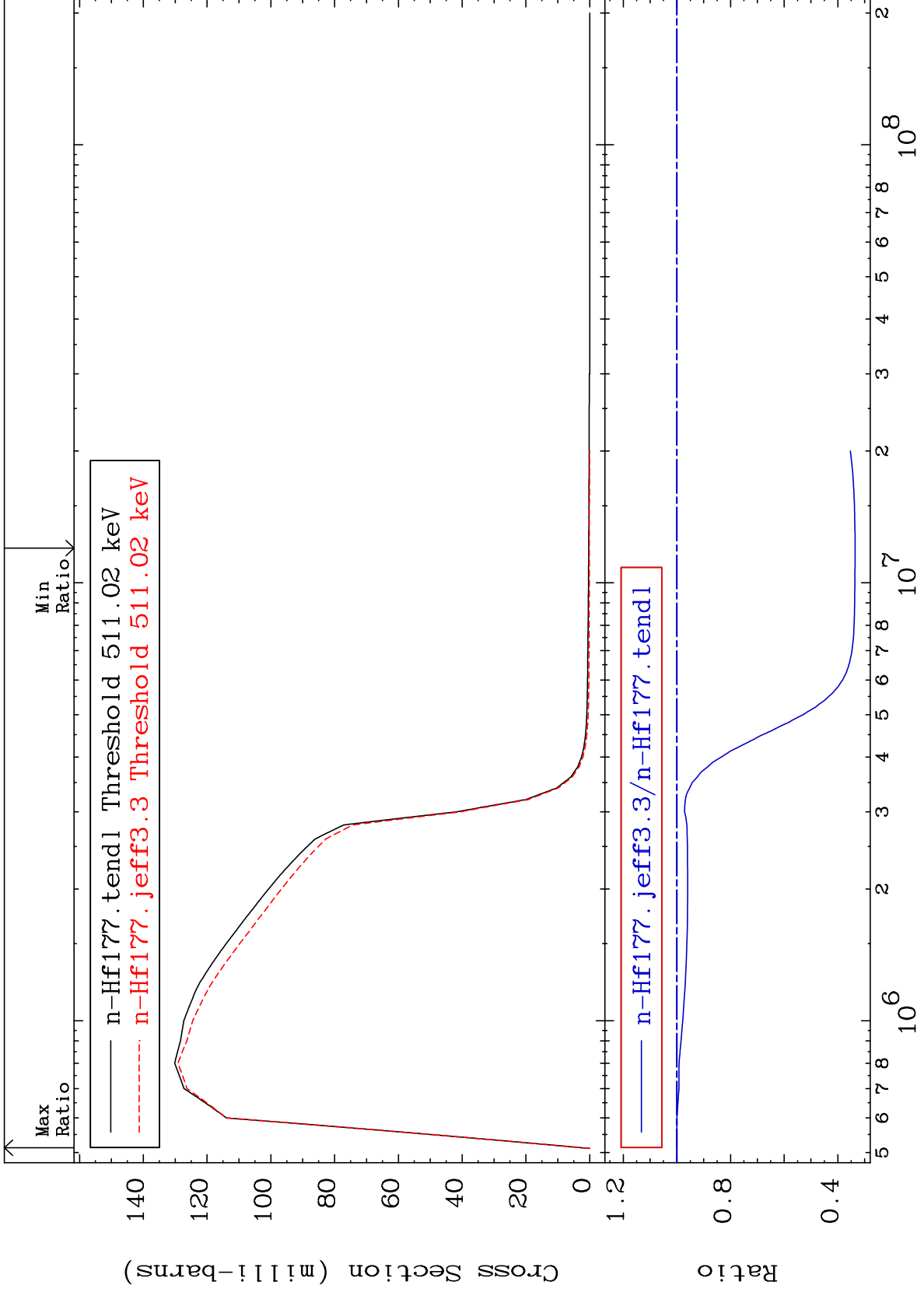
Incident Energy (eV)

72-Hf-177

MAT 7234

MT= 59 (n,n') Level  
Cross Section

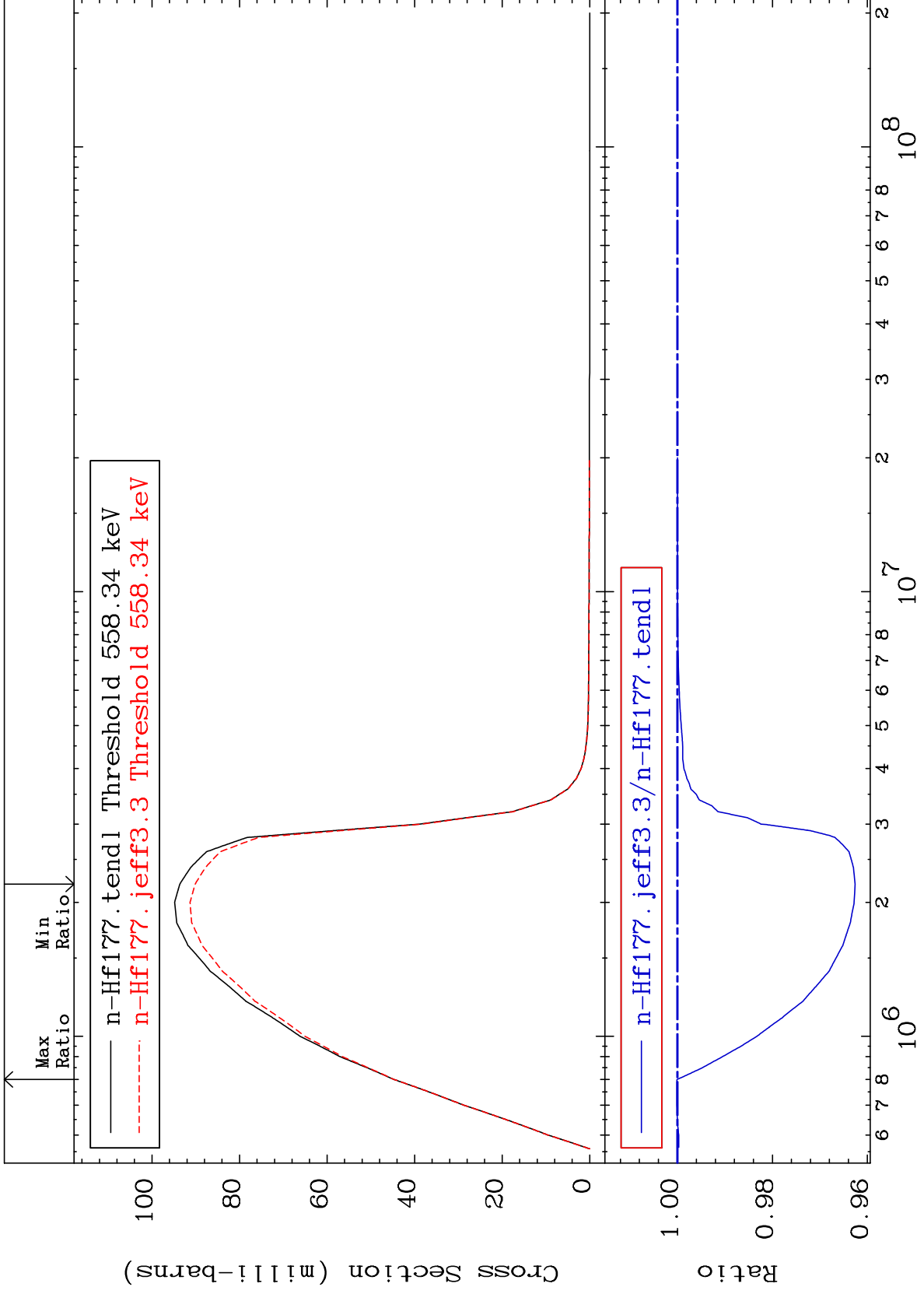
<sup>72</sup>Hf-177  
-66.46 To -0.014%

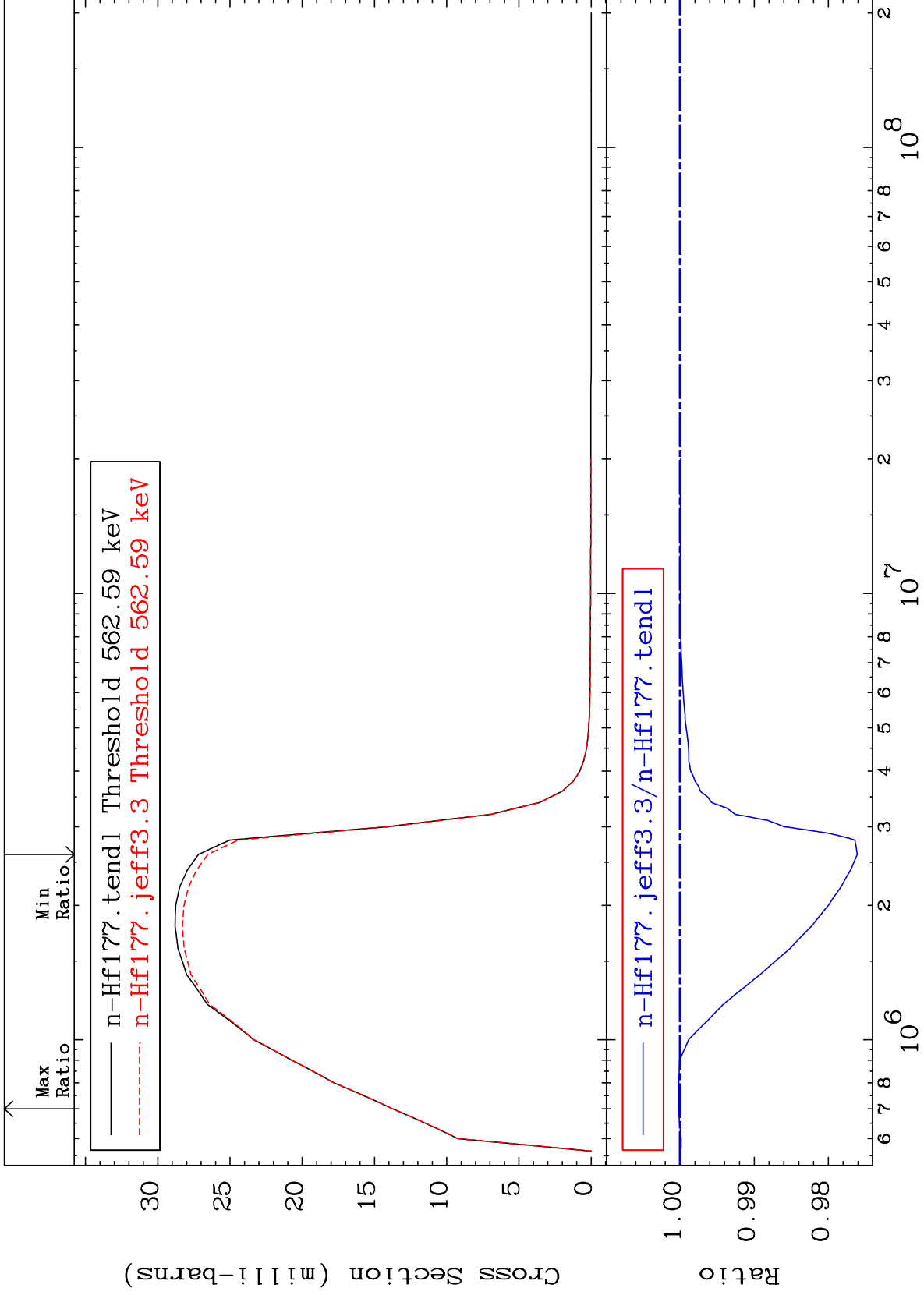


MAT 7234

MT= 60 (n,n') Level  
Cross Section

72-Hf-177  
-3.740 To 0.010 %

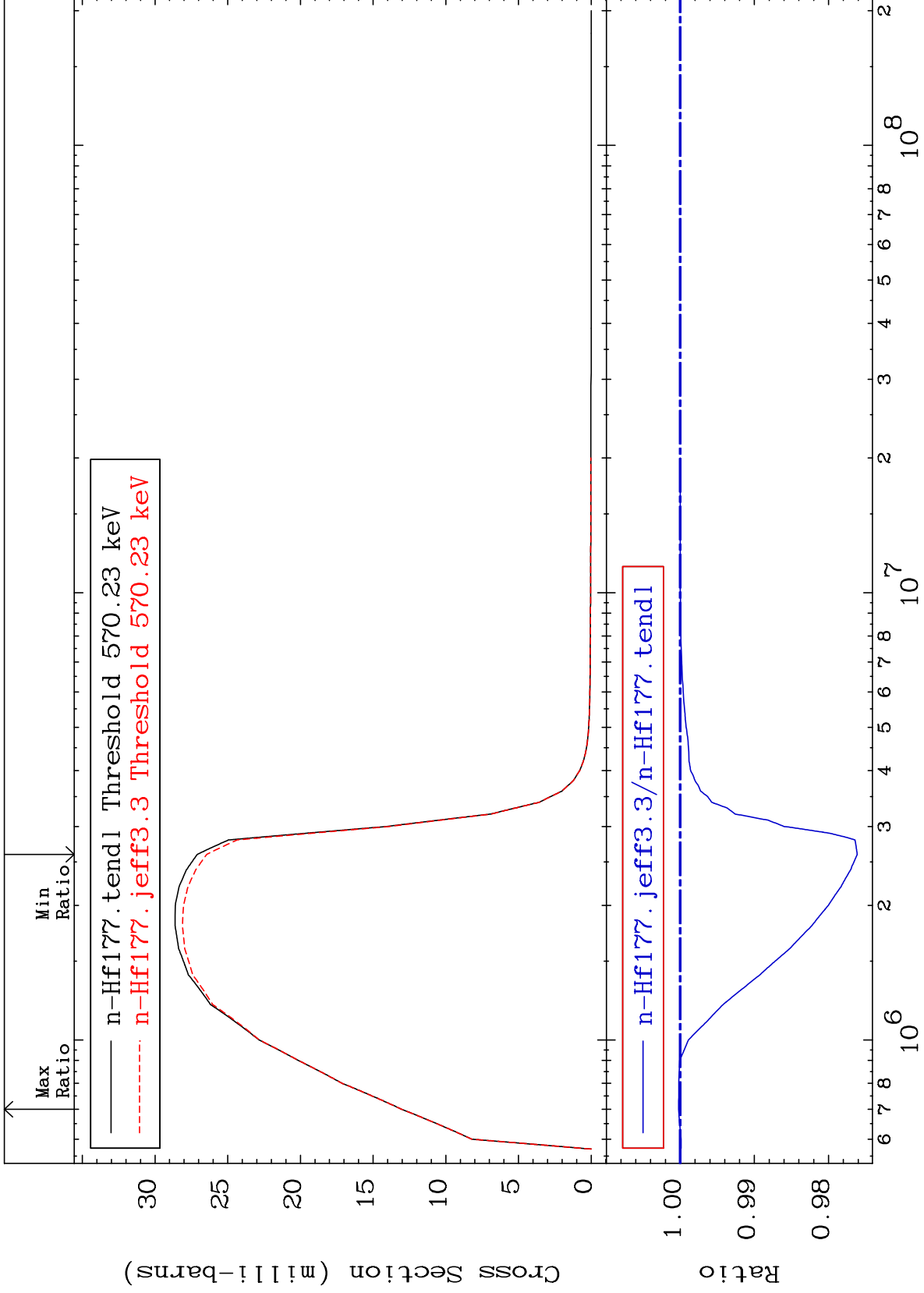




MAT 7234

MT= 62 (n,n') Level  
Cross Section

72-Hf-177  
-2.387 To 0.021 %

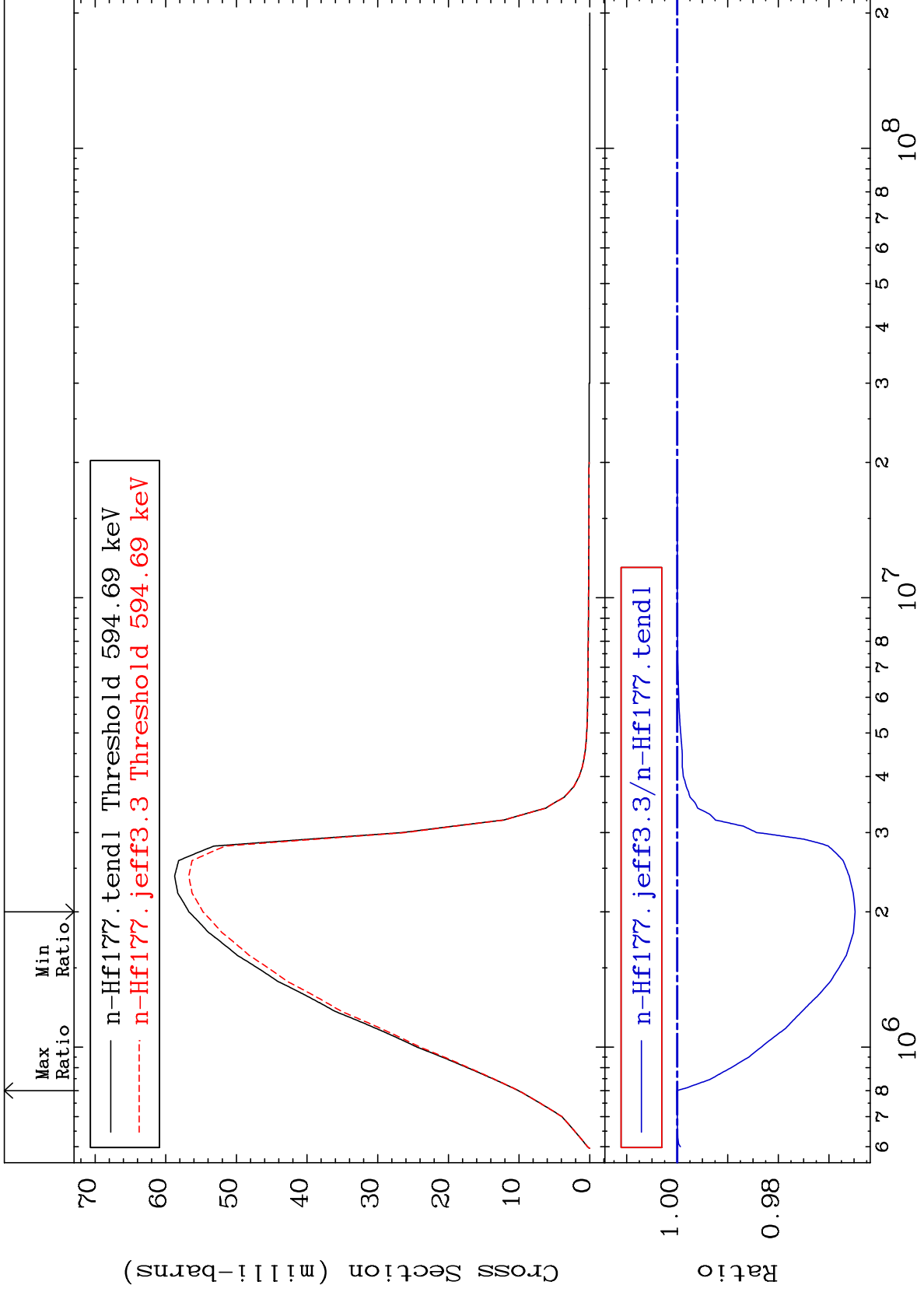




MAT 7234

MT= 63 (n,n') Level  
Cross Section

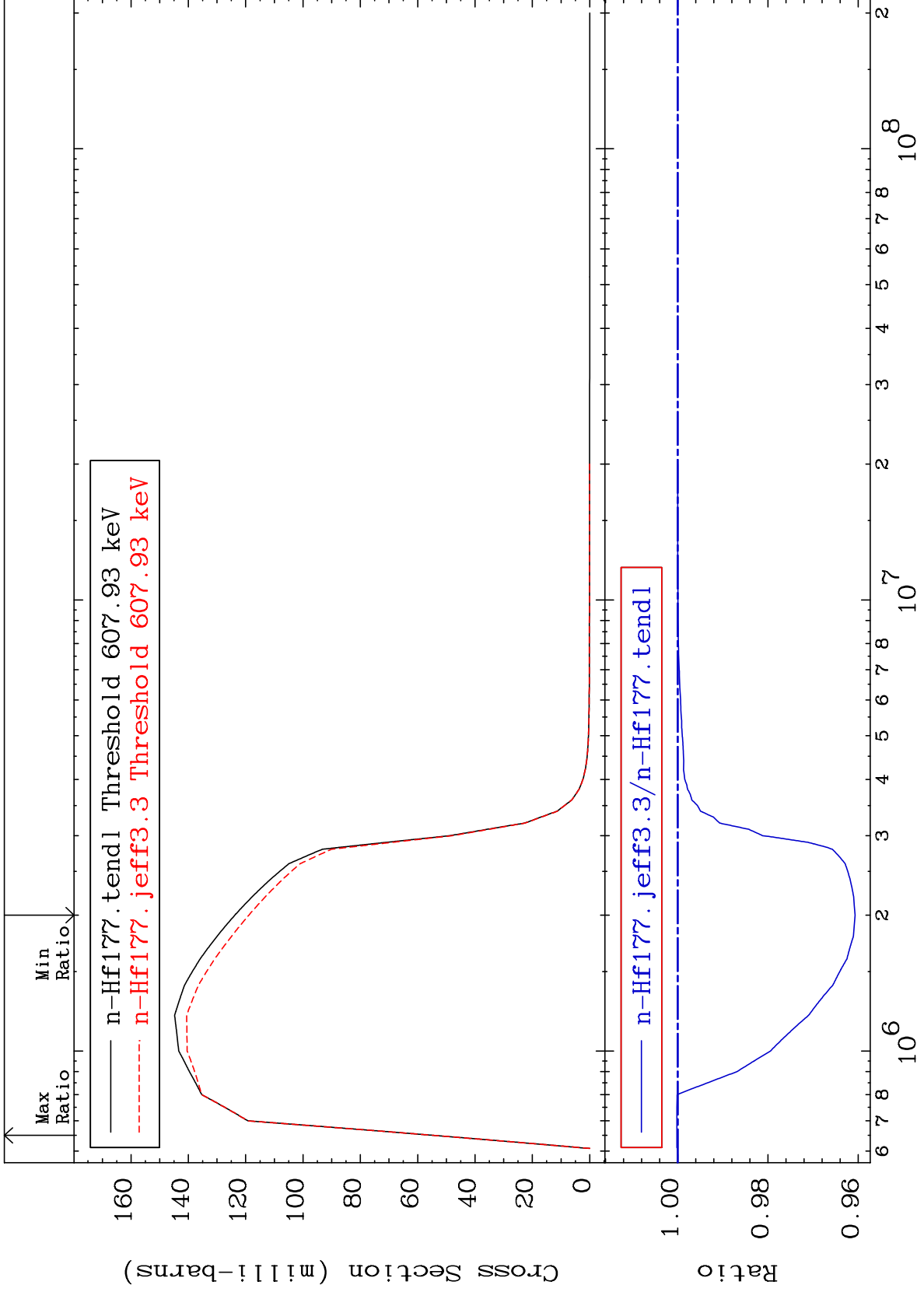
72-Hf-177  
-3.519 To 0.006 %



MAT 7234

MT= 64 (n,n') Level  
Cross Section

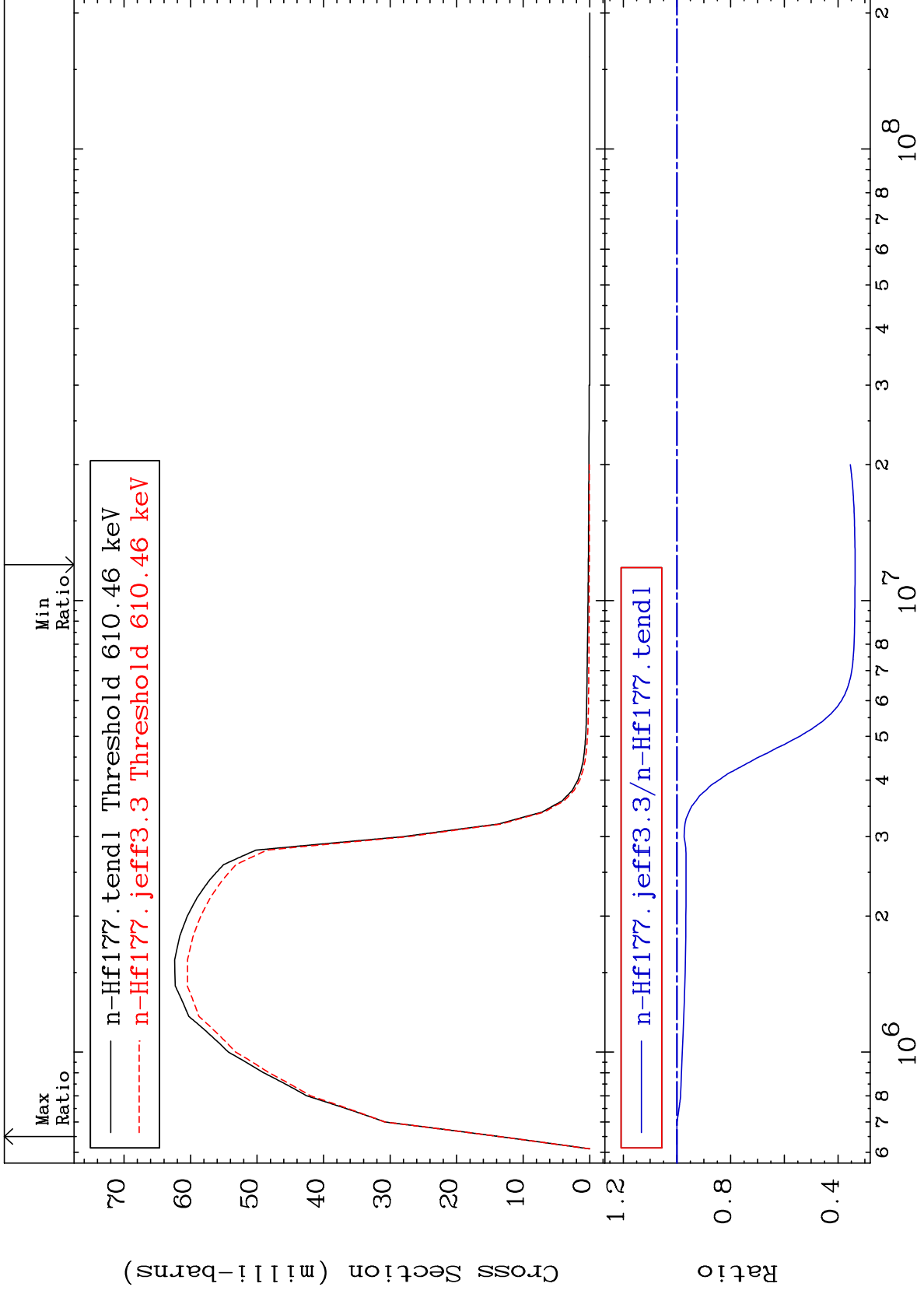
72-Hf-177  
-3.931 To 0.018 %



MAT 7234

MT= 65 (n,n') Level  
Cross Section

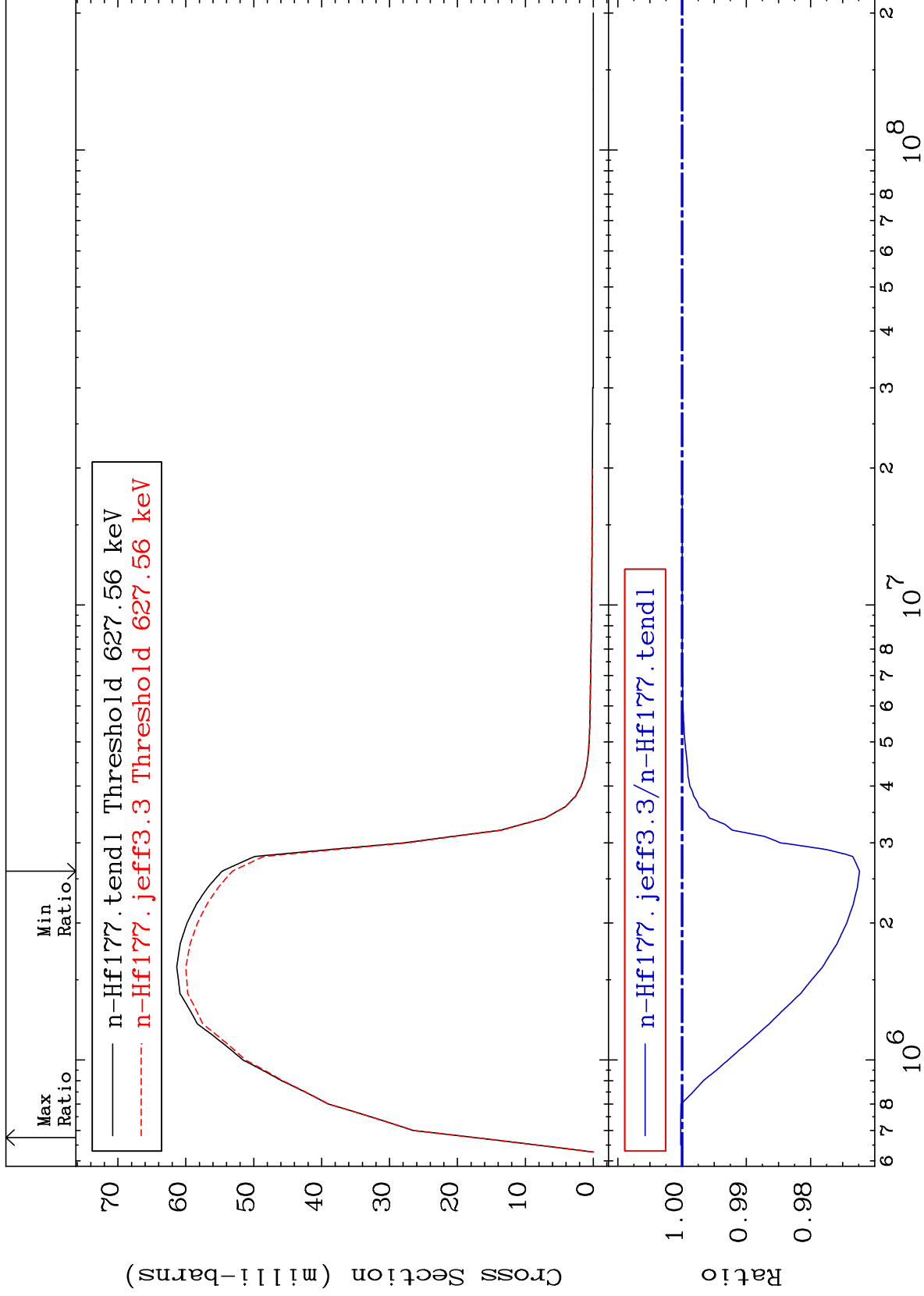
72-Hf-177  
-66.37 To 0.020 %



MAT 7234

MT= 66 (n,n') Level  
Cross Section

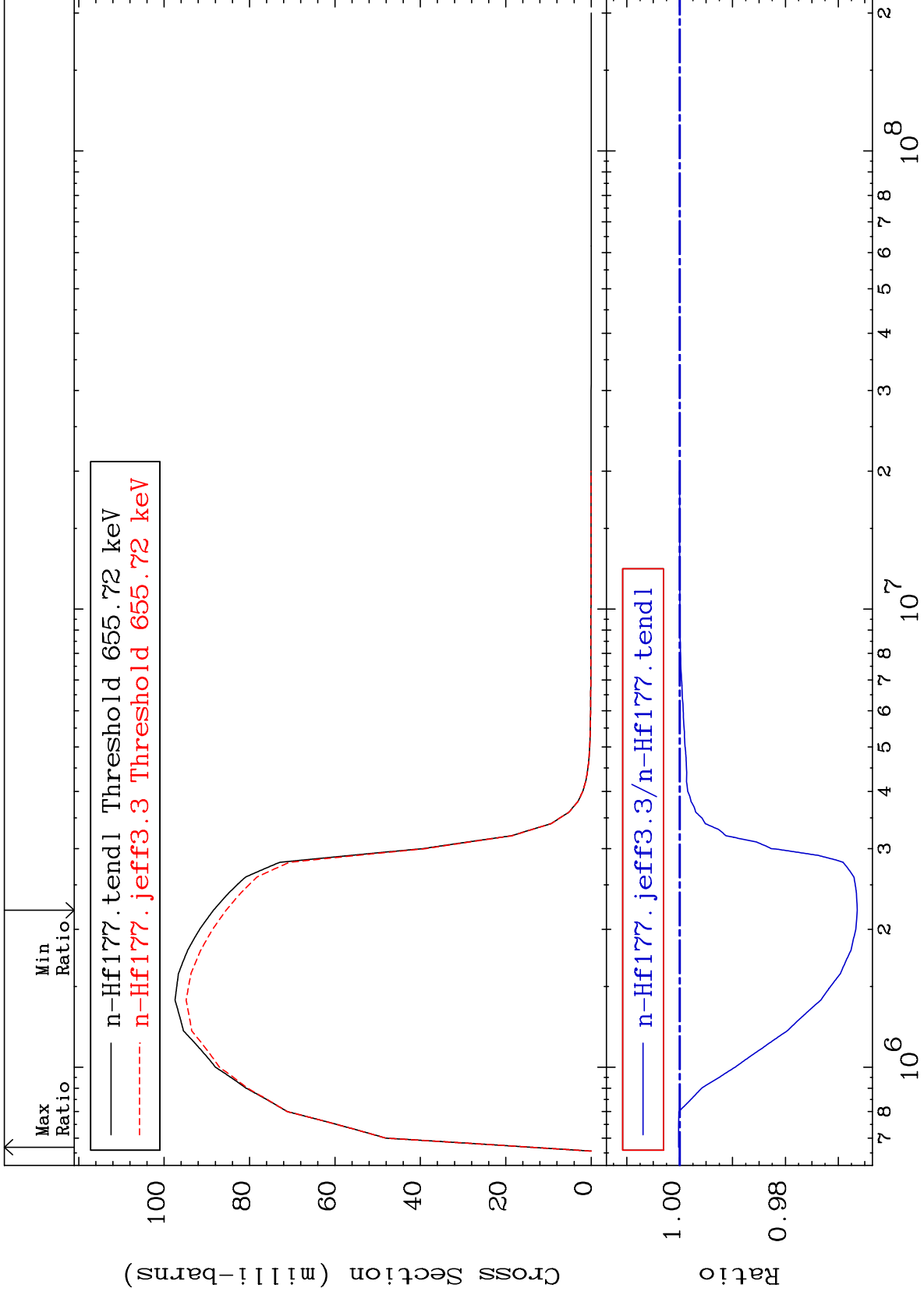
72-Hf-177  
-2.762 To 0.020 %



MAT 7234

MT= 67 (n,n') Level  
Cross Section

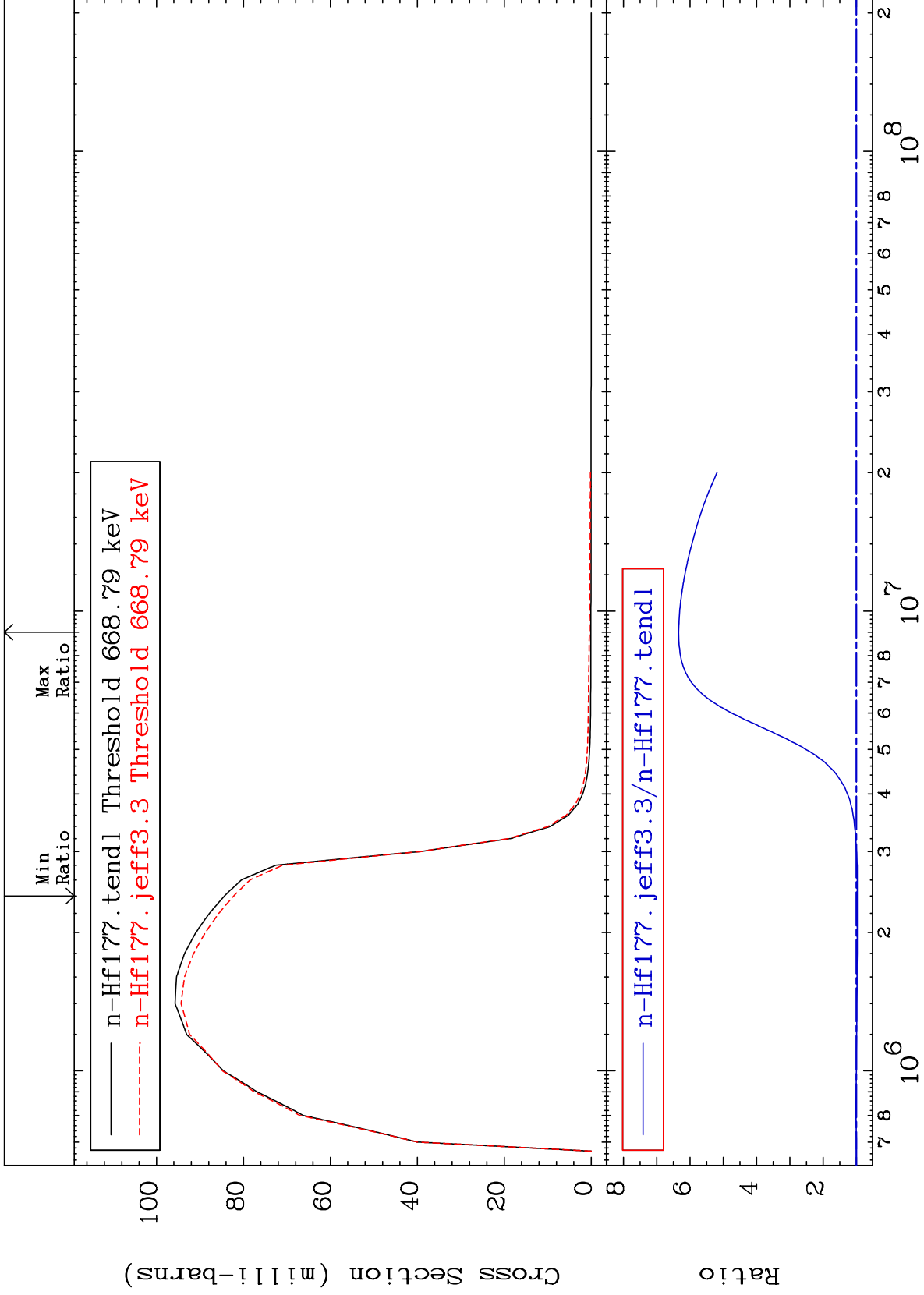
72-Hf-177  
-3.358 To 0.020 %



MAT 7234

MT= 68 (n,n') Level  
Cross Section

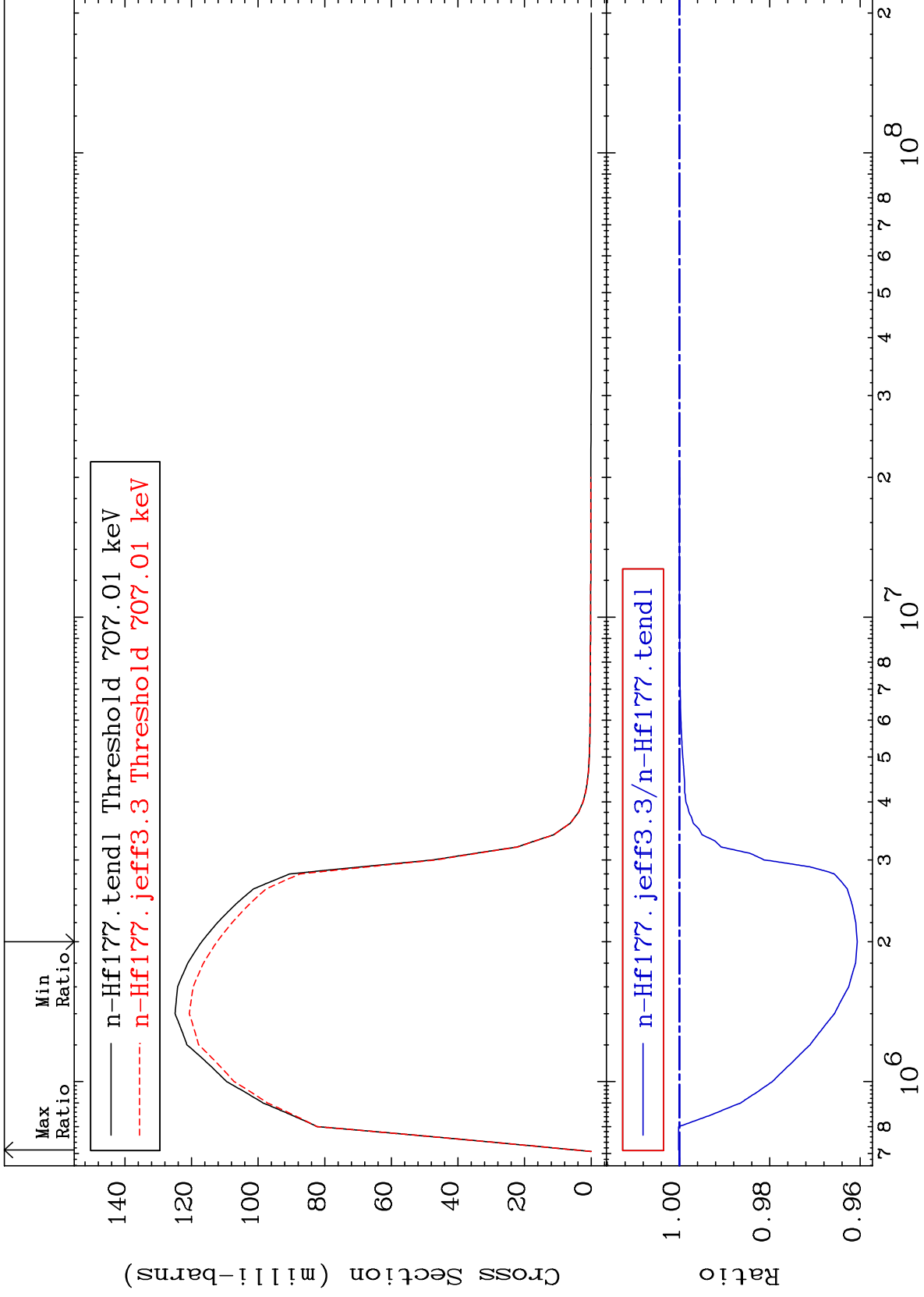
72-Hf-177  
-2.502 To 534.0 %



30

Incident Energy (eV)

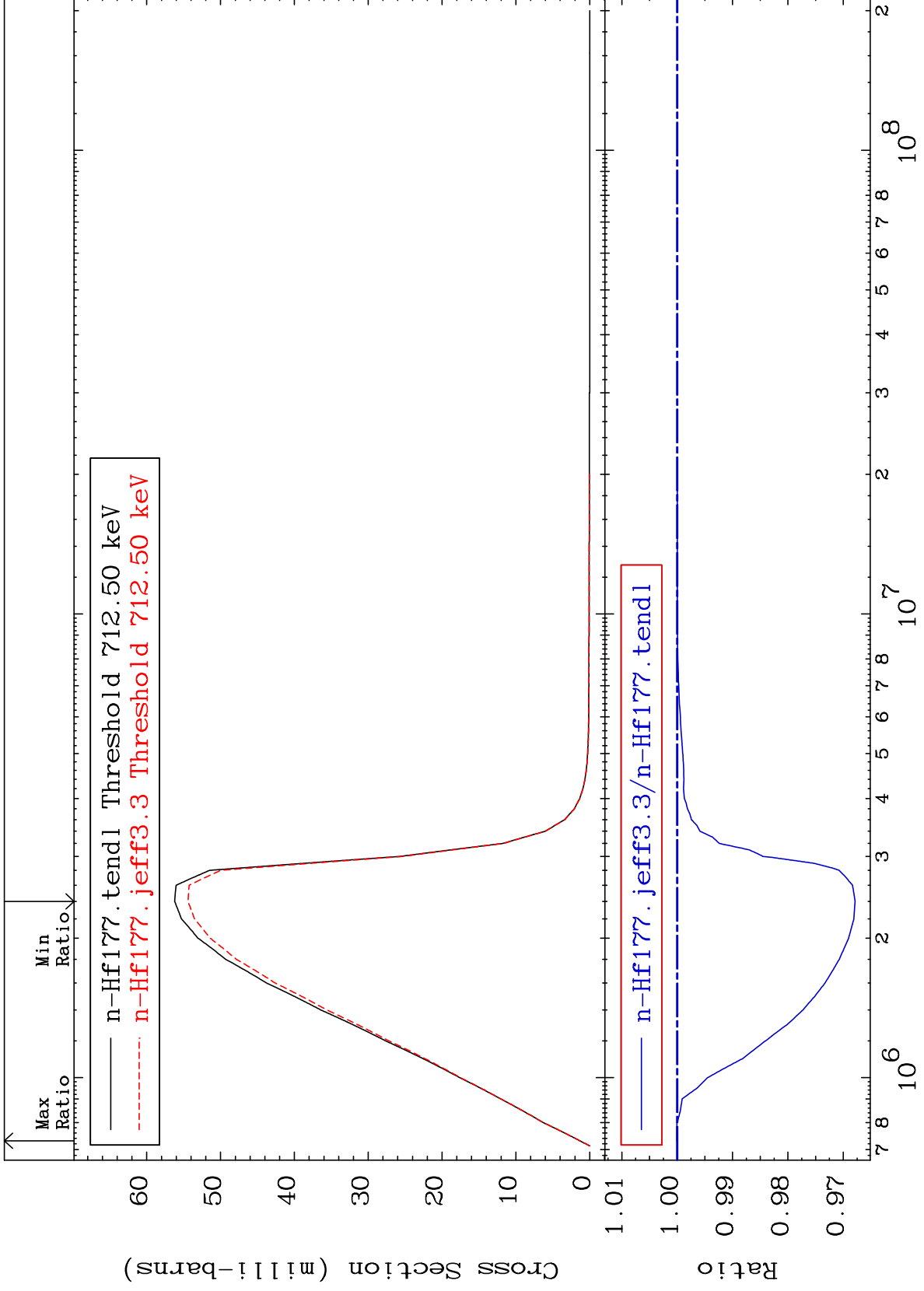
72-Hf-177



MAT 7234

MT= 70 (n,n') Level  
Cross Section

72-Hf-177  
-3.213 To 0.005 %

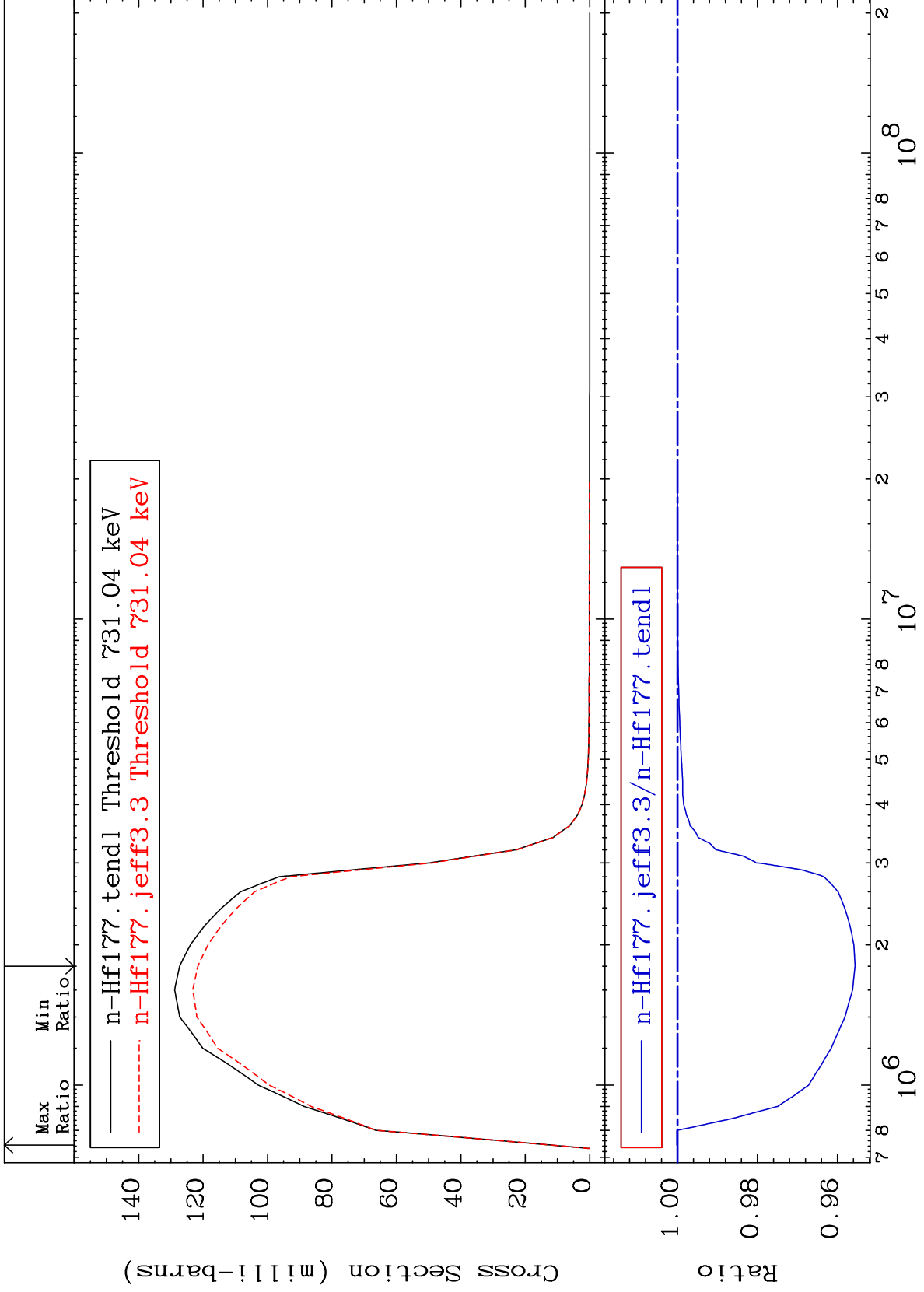




MAT 7234

MT= 71 (n,n') Level  
Cross Section

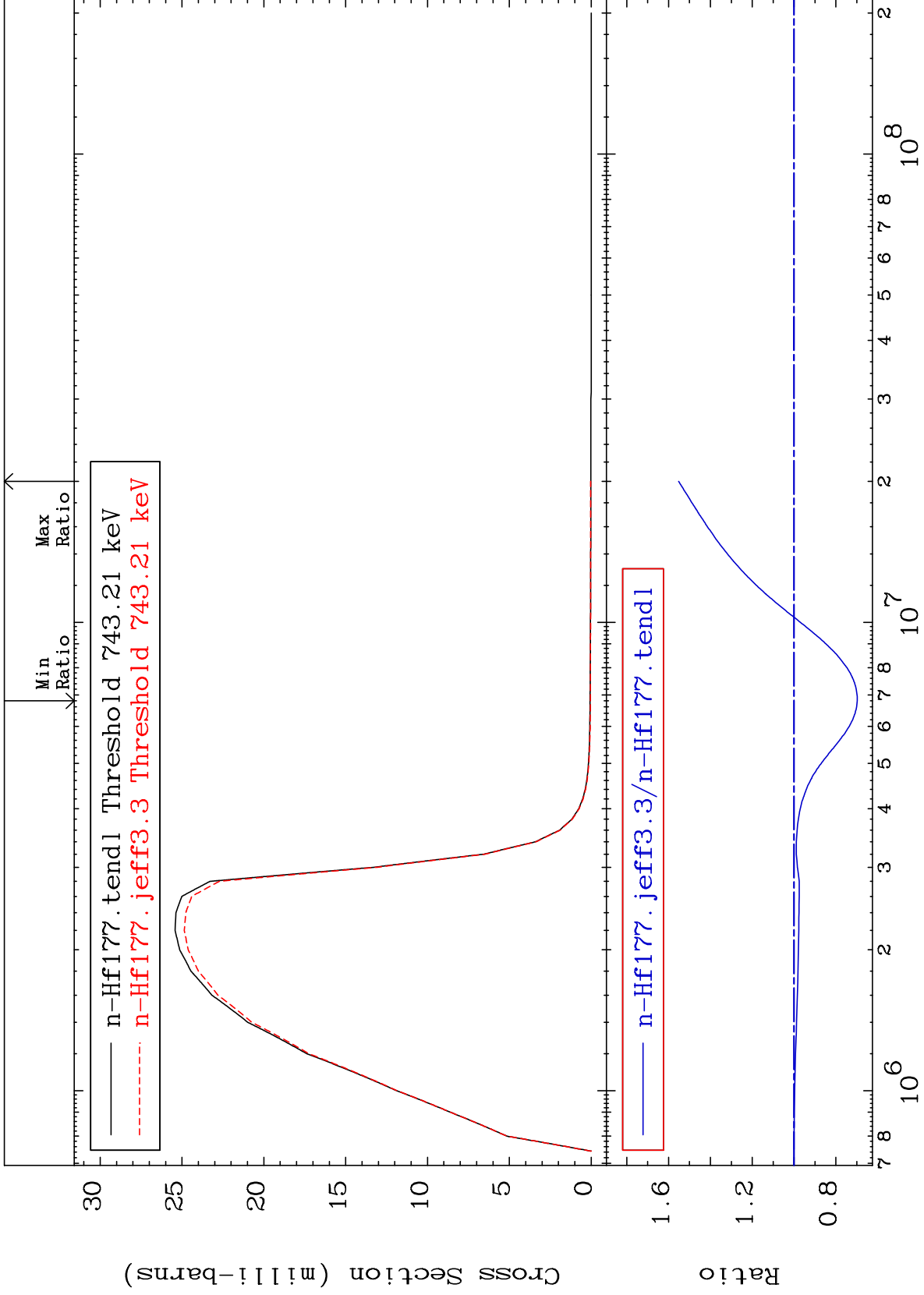
72-Hf-177  
-4.443 To 0.016 %



MAT 7234

MT= 72 (n,n') Level  
Cross Section

72-Hf-177  
-30.21 To 55.19 %



34

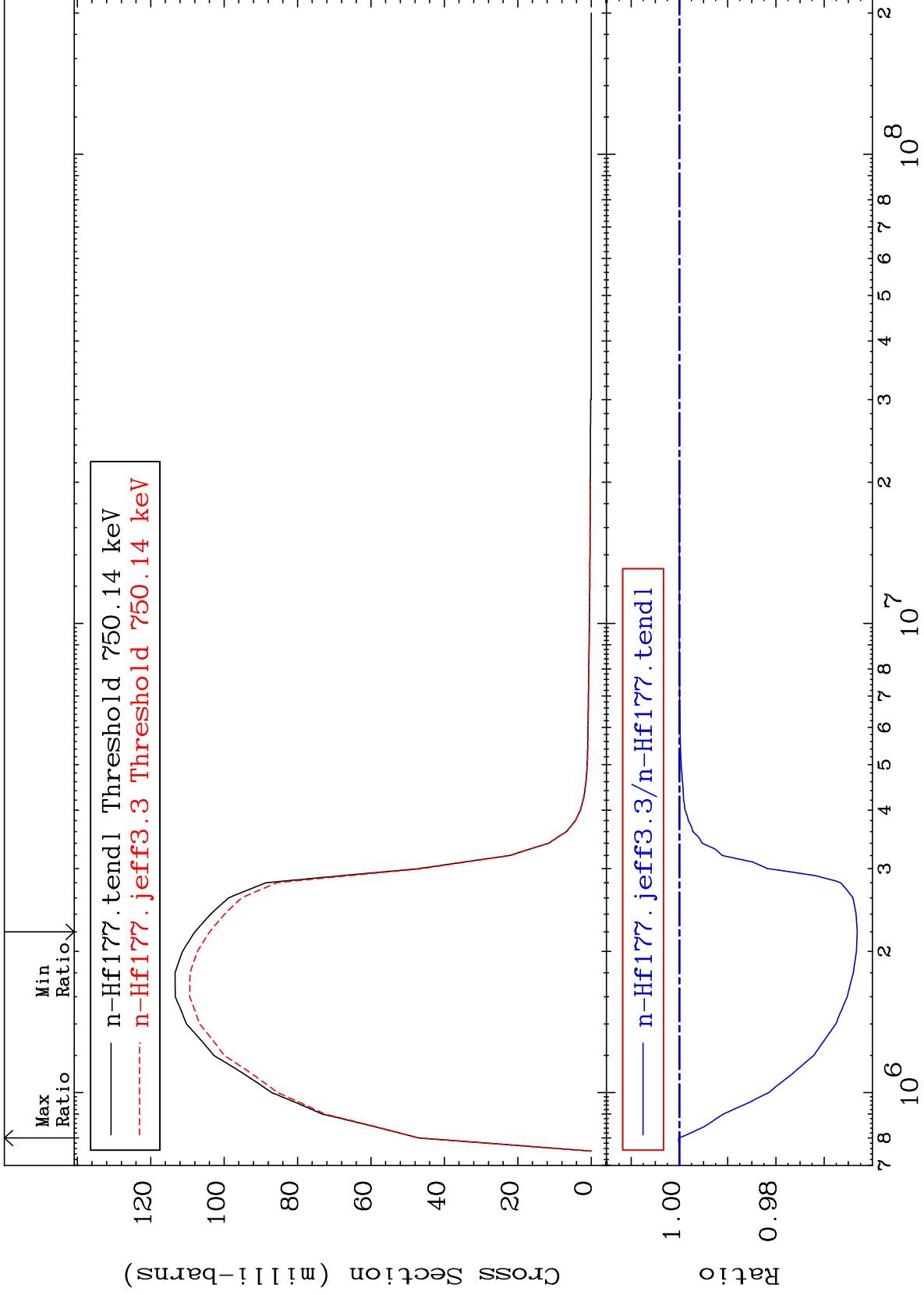
Incident Energy (eV)

72-Hf-177

MAT 7234

MT= 73 (n,n') Level  
Cross Section

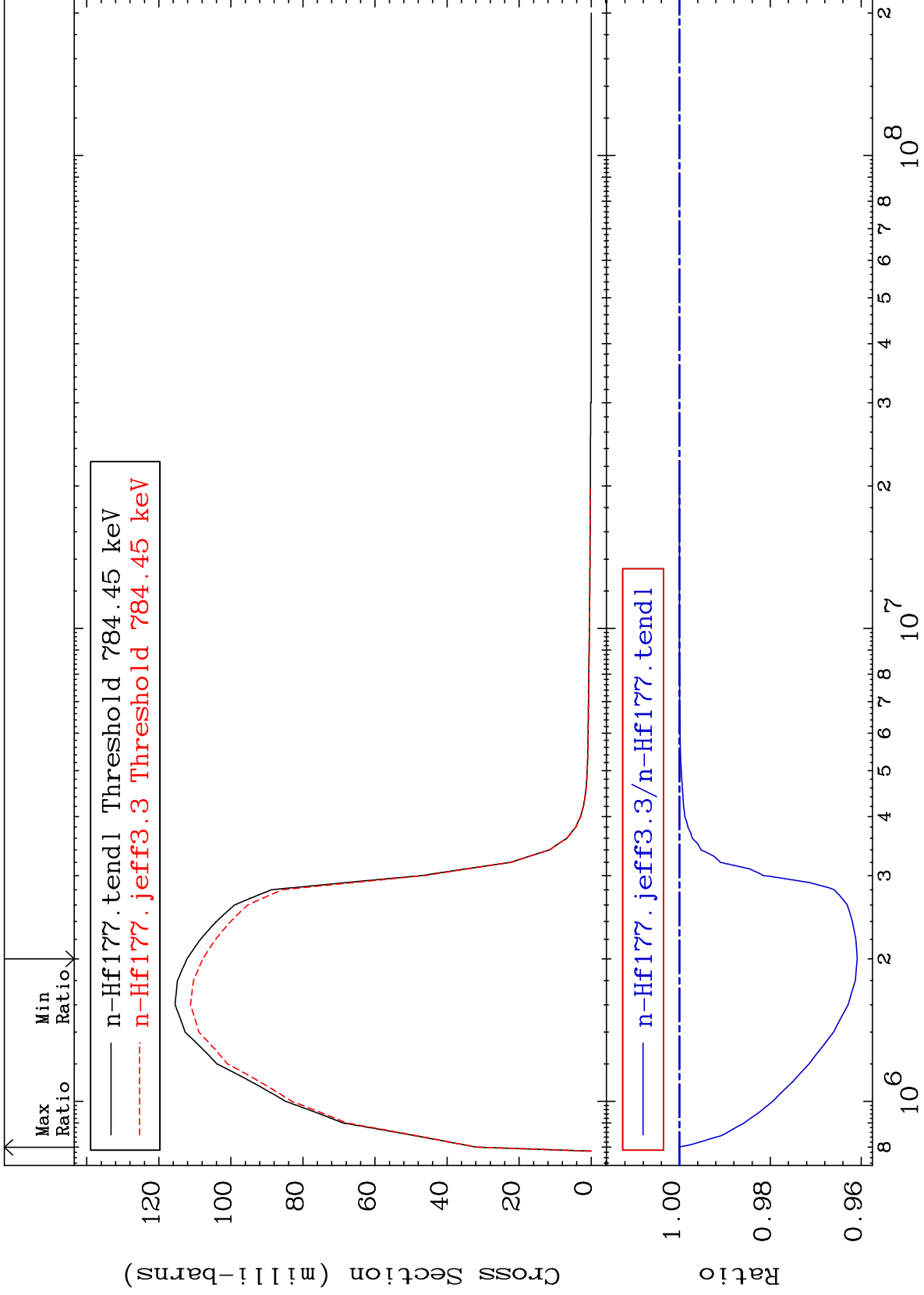
72-Hf-177  
-3.683 To 0.016 %



MAT 7234

MT= 74 (n,n') Level  
Cross Section

<sup>72</sup>Hf-177  
-3.915 To 0.018 %



36

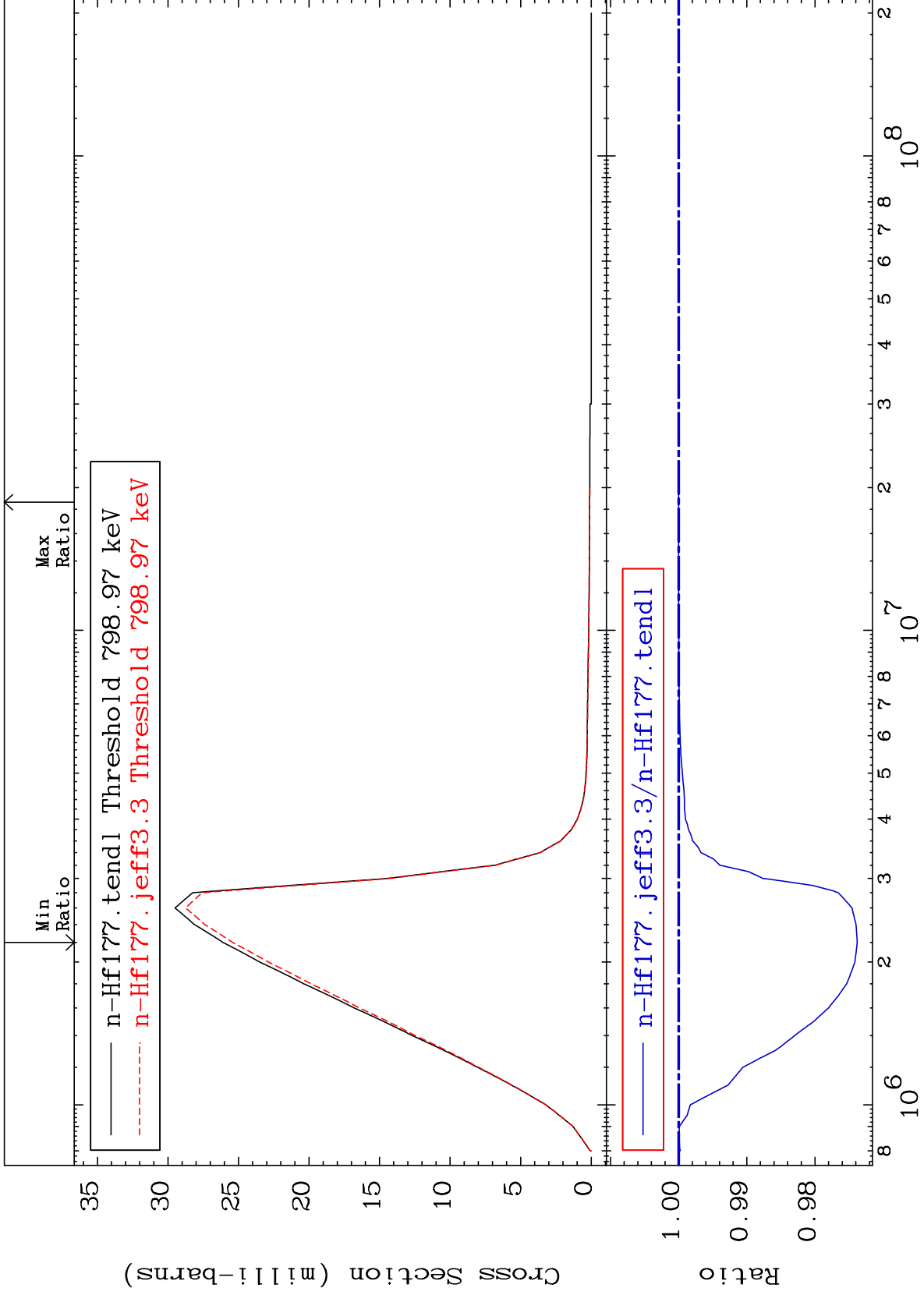
Incident Energy (eV)

<sup>72</sup>Hf-177

MAT 7234

MT= 75 (n,n') Level  
Cross Section

72-Hf-177  
-2.621 To 0.000 %



37

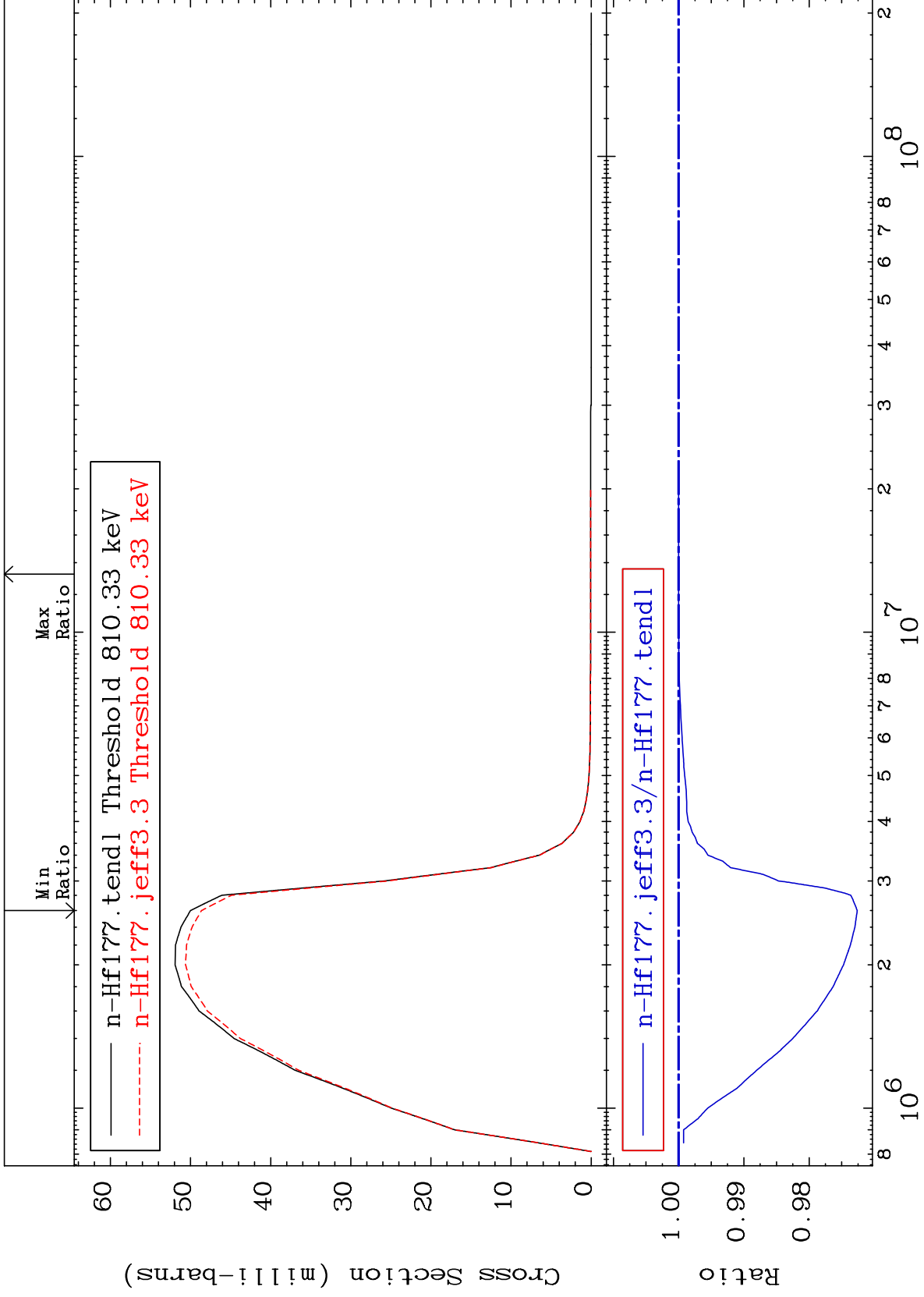
Incident Energy (eV)

72-Hf-177

MAT 7234

MT= 76 (n,n') Level  
Cross Section

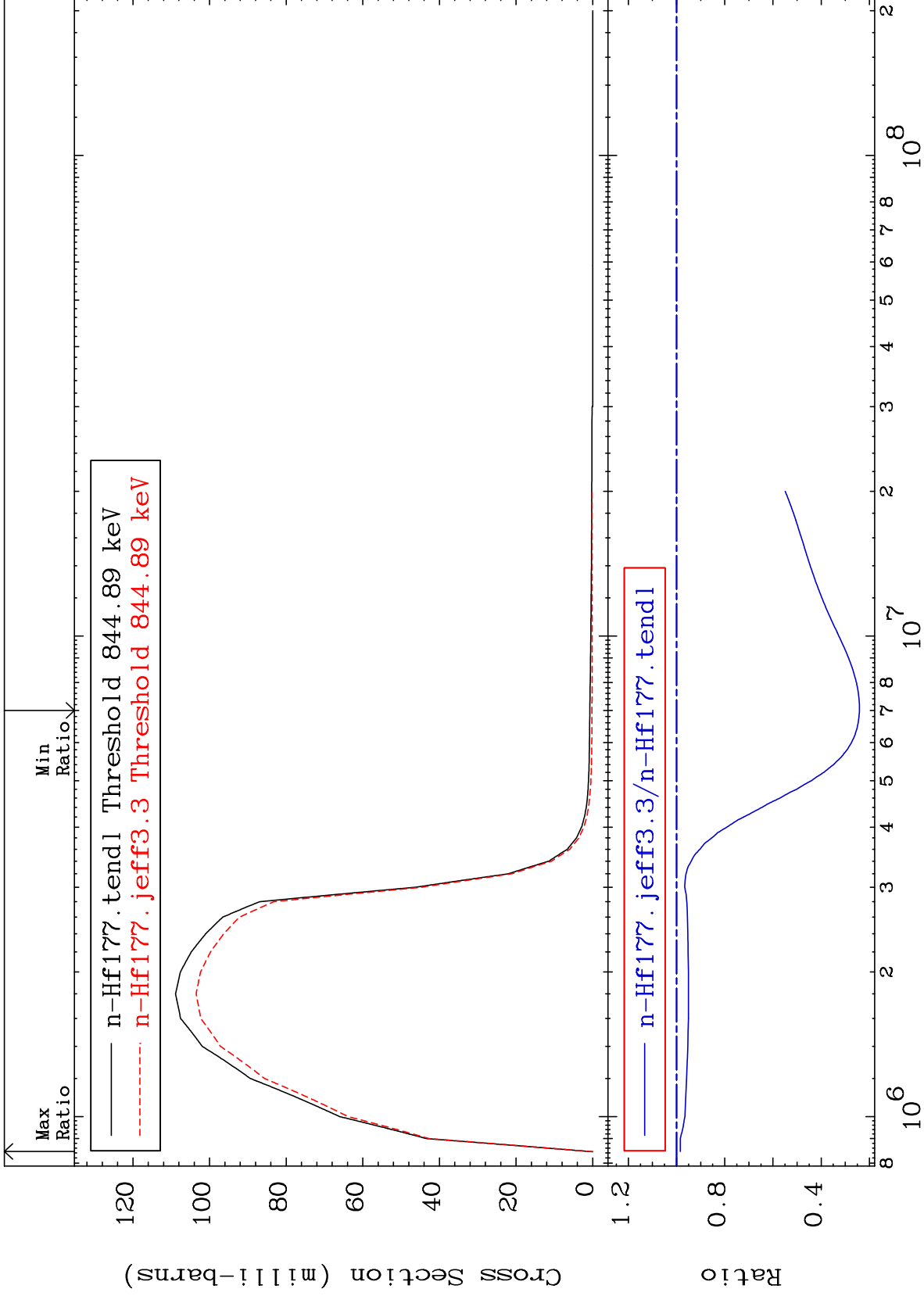
72-Hf-177  
-2.738 To 0.000 %



MAT 7234

MT= 77 (n,n') Level  
Cross Section

72-Hf-177  
-75.87 To -1.572%



39

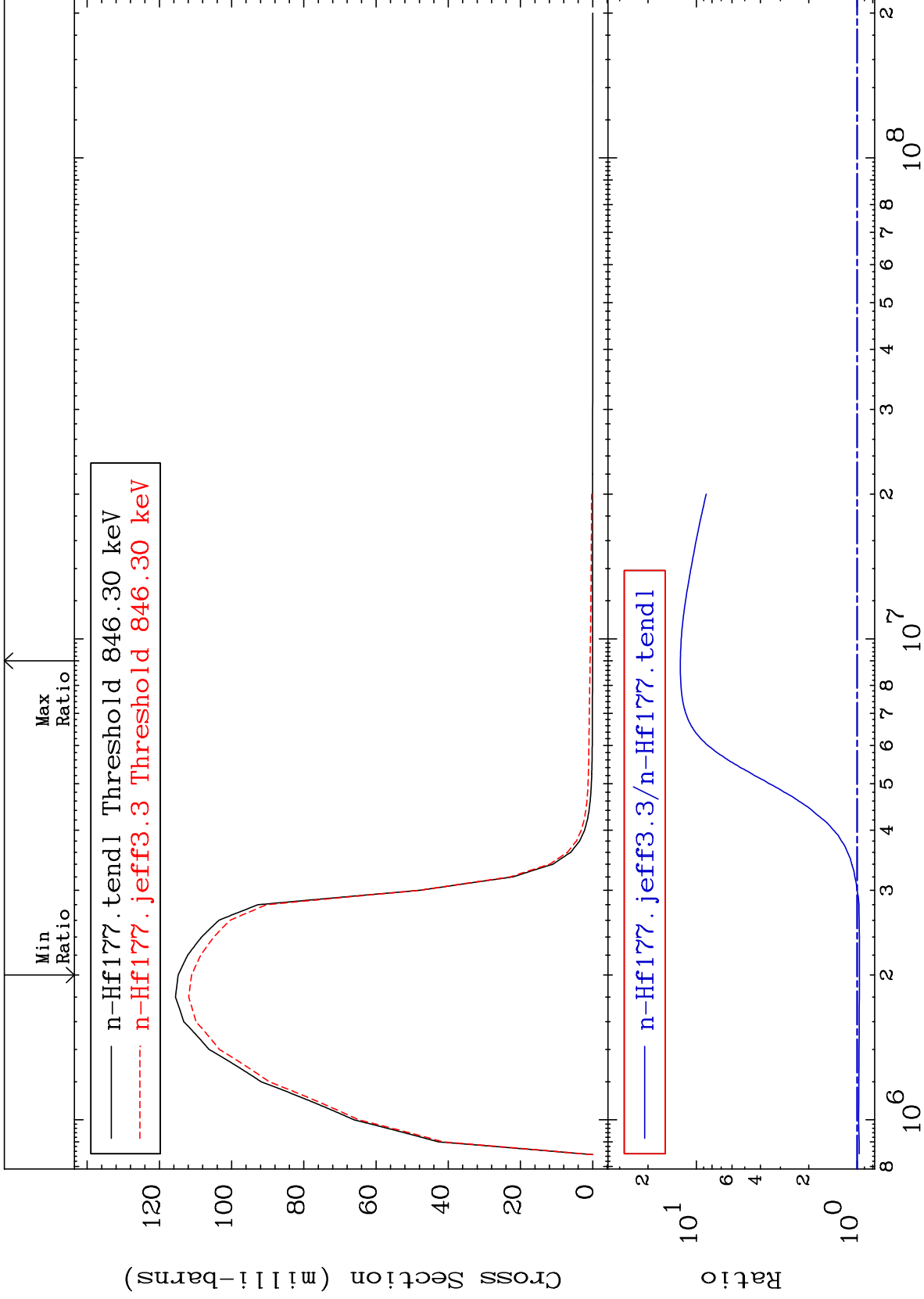
Incident Energy (eV)

72-Hf-177

MAT 7234

MT= 78 (n,n') Level  
Cross Section

72-Hf-177  
-3.233 To 1158. %

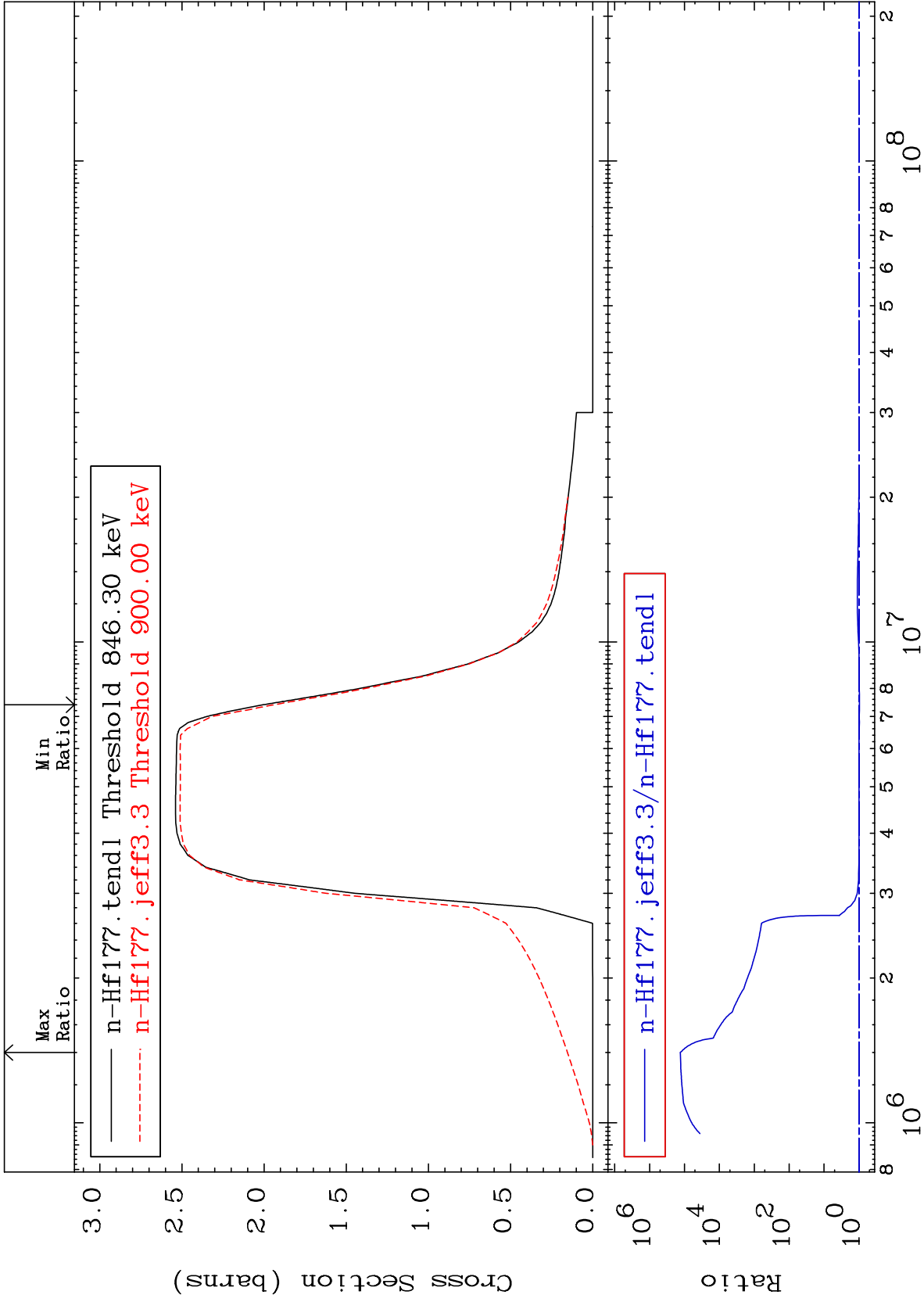


40

Incident Energy (eV)

72-Hf-177

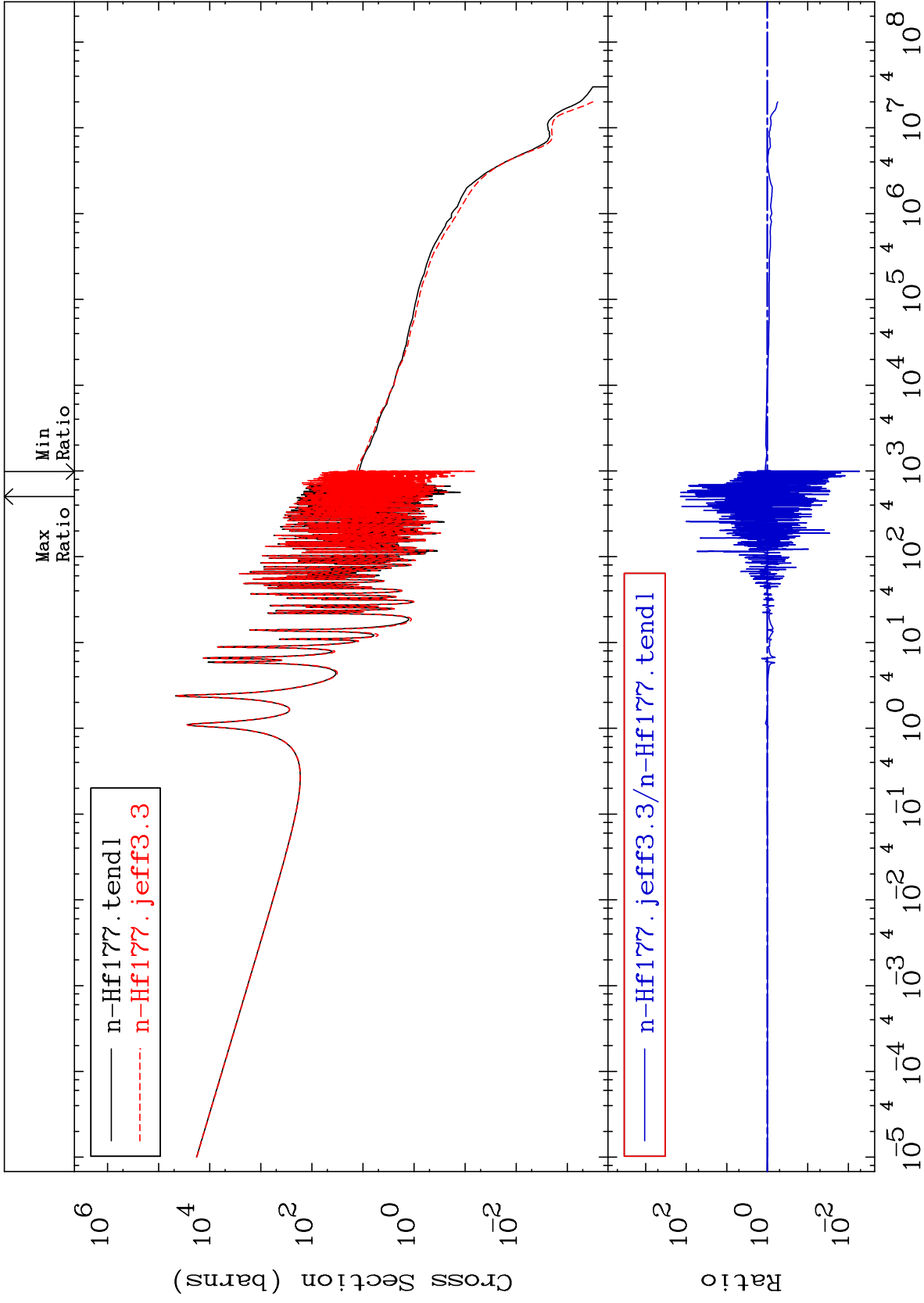




MAT 7234

(n,  $\gamma$ )  
Cross Section

72-Hf-177  
-99.47 To 9999. %



42

Incident Energy (eV)

72-Hf-177

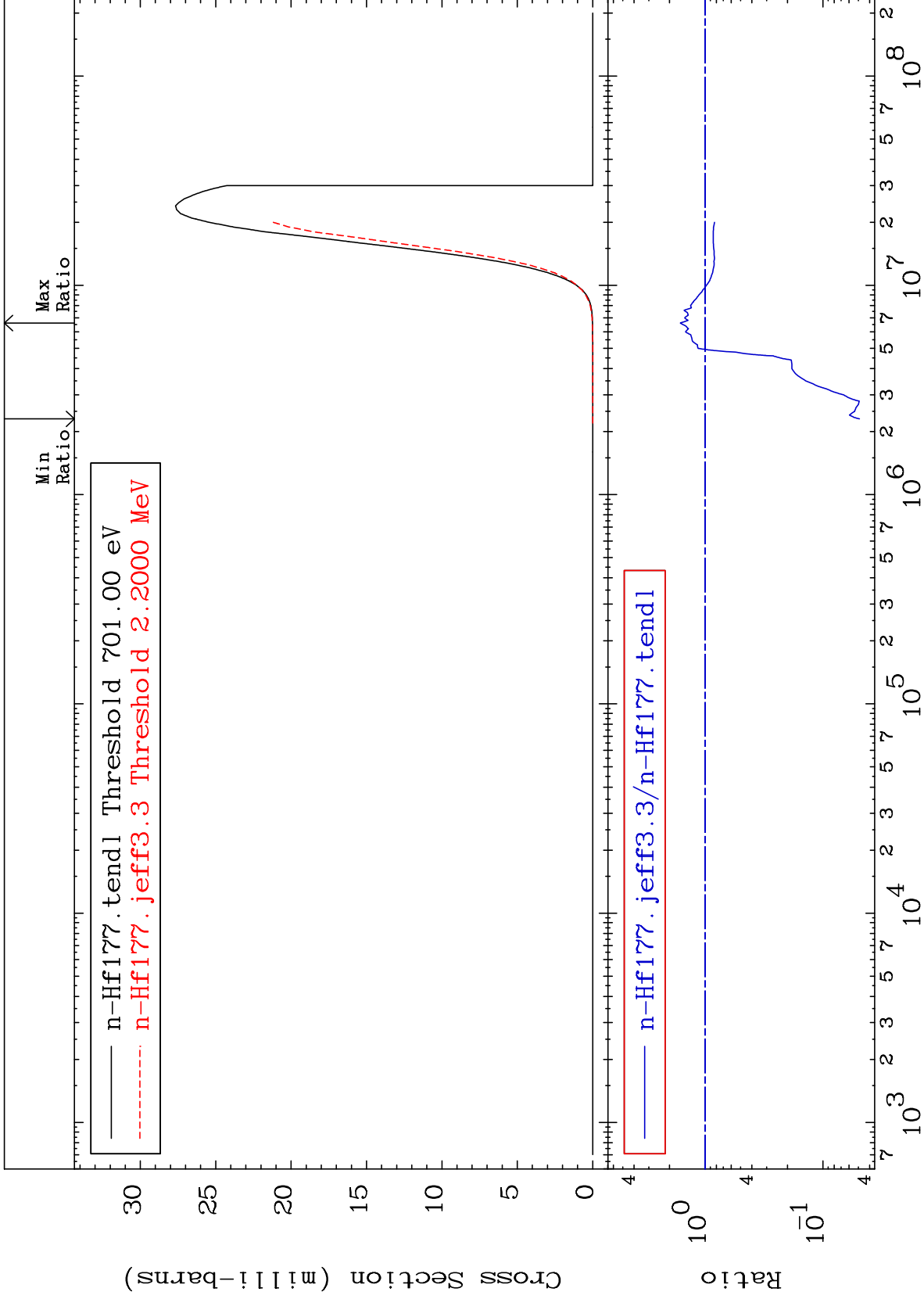
MAT 7234

(n,p)

72-Hf-177

Cross Section

-95.11 To 61.96 %



43

Incident Energy (eV)

72-Hf-177

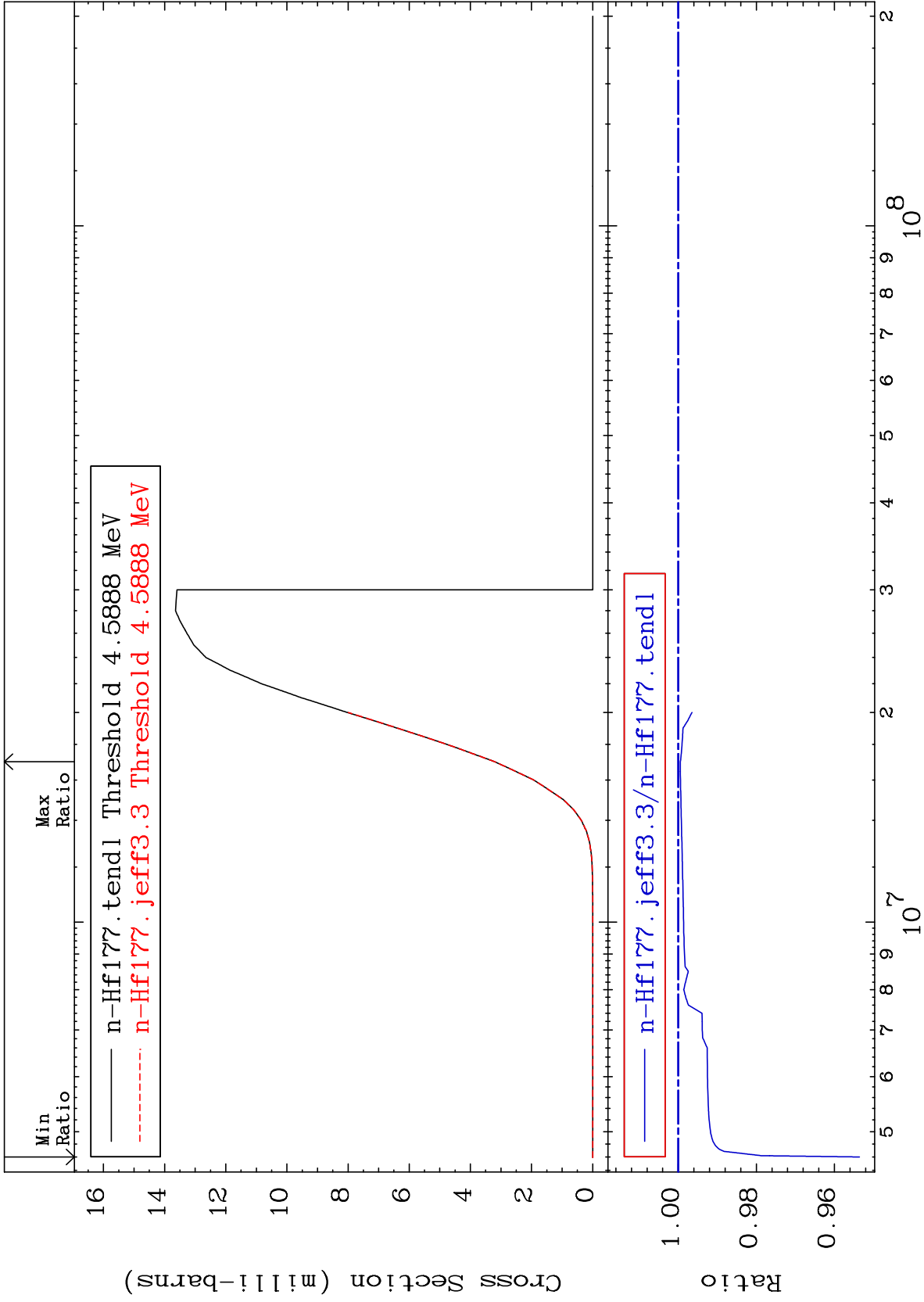
MAT 7234

(n, d)

72-Hf-177

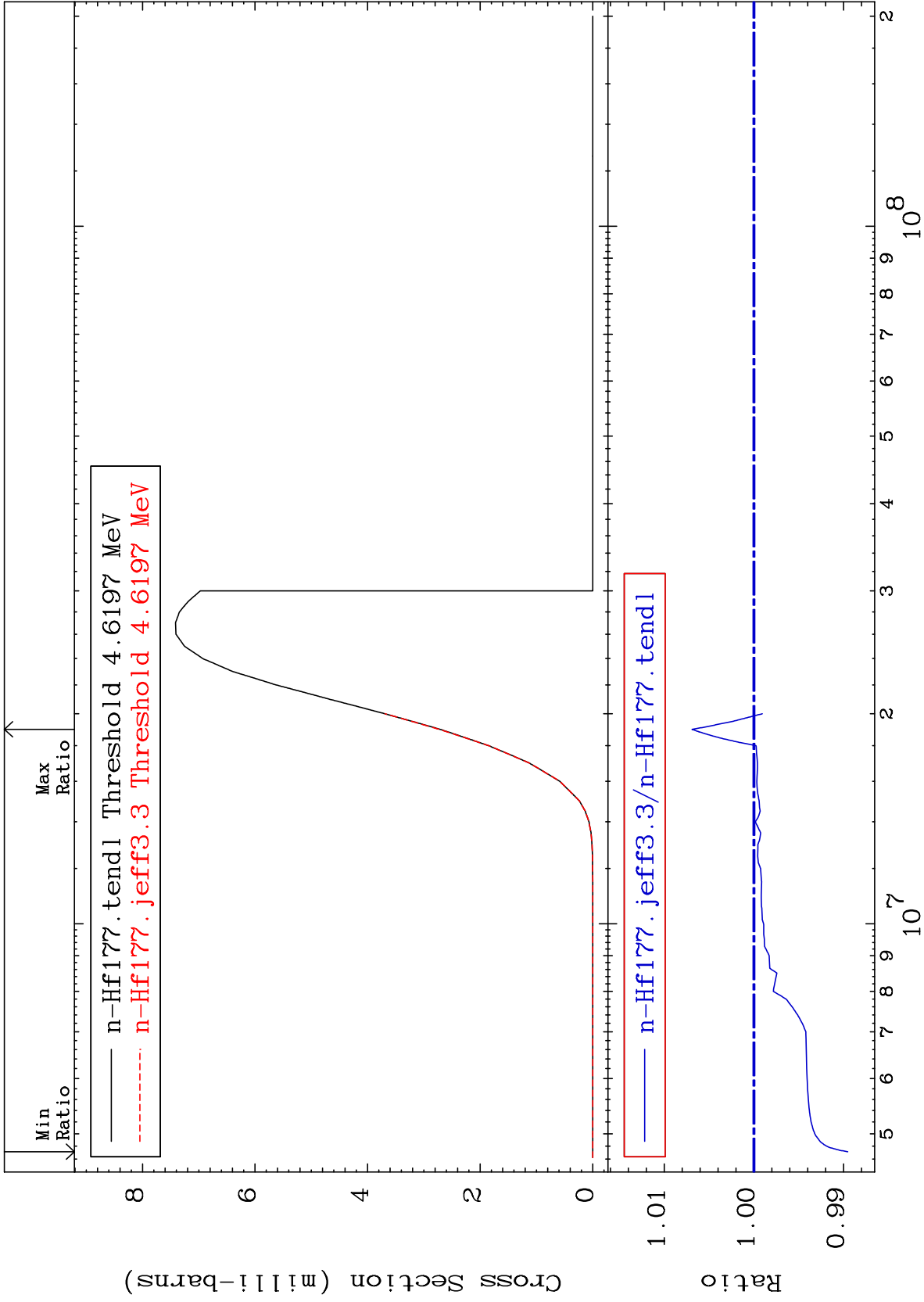
Cross Section

-4.641 To -0.053%



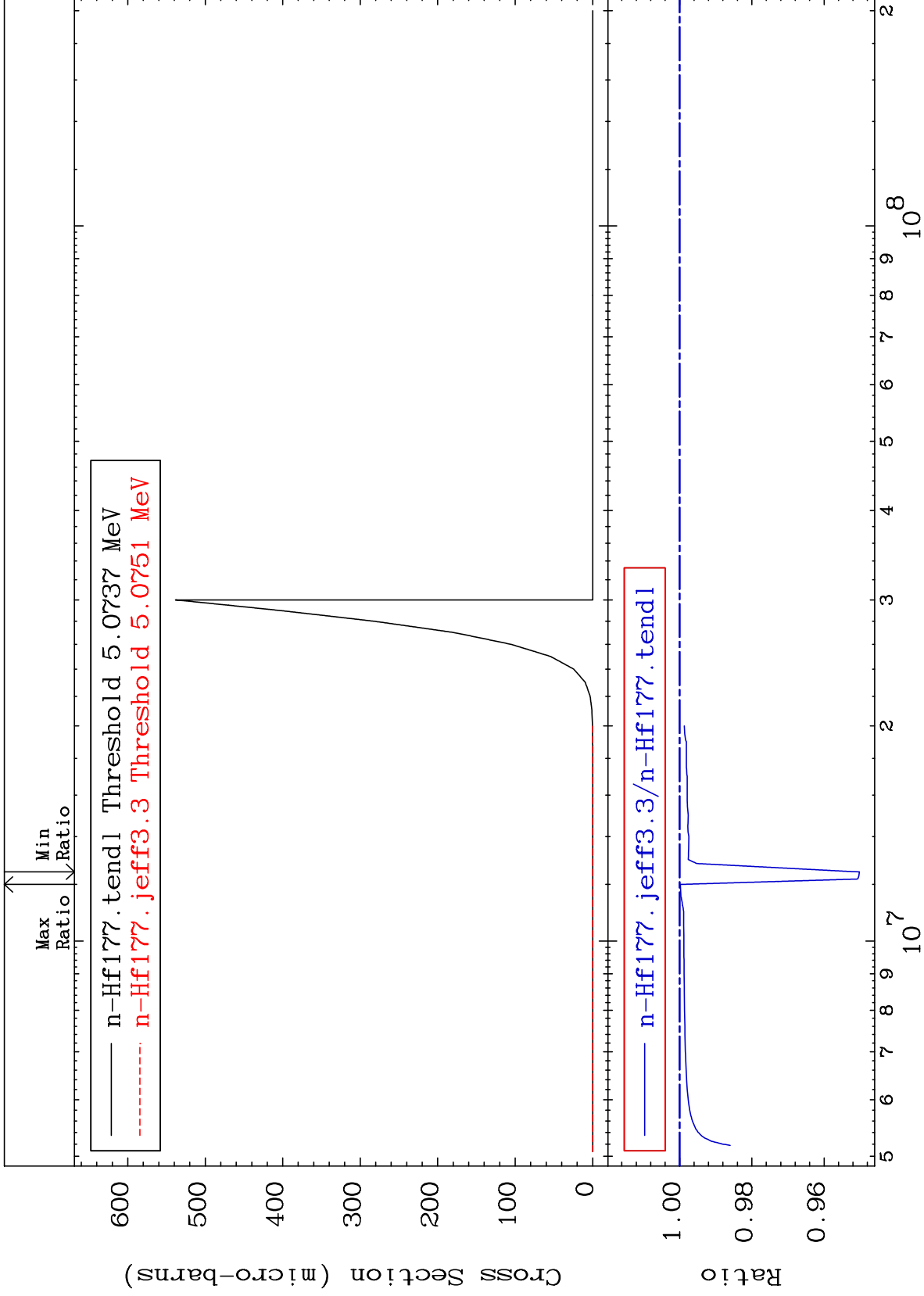
Cross Section

-1.046 To 0.689 %



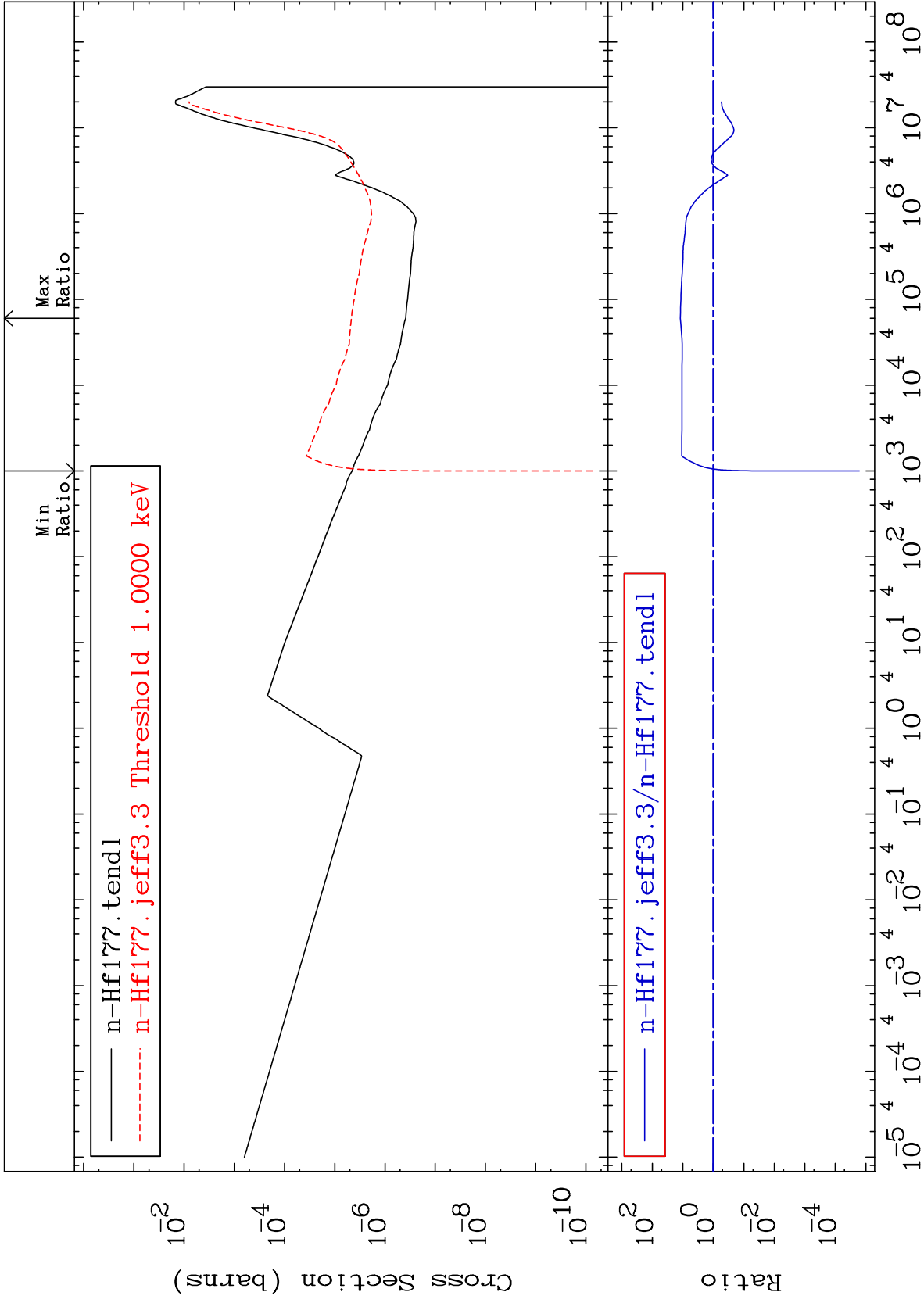
Cross Section

-4.978 To -0.021%



MAT 7234

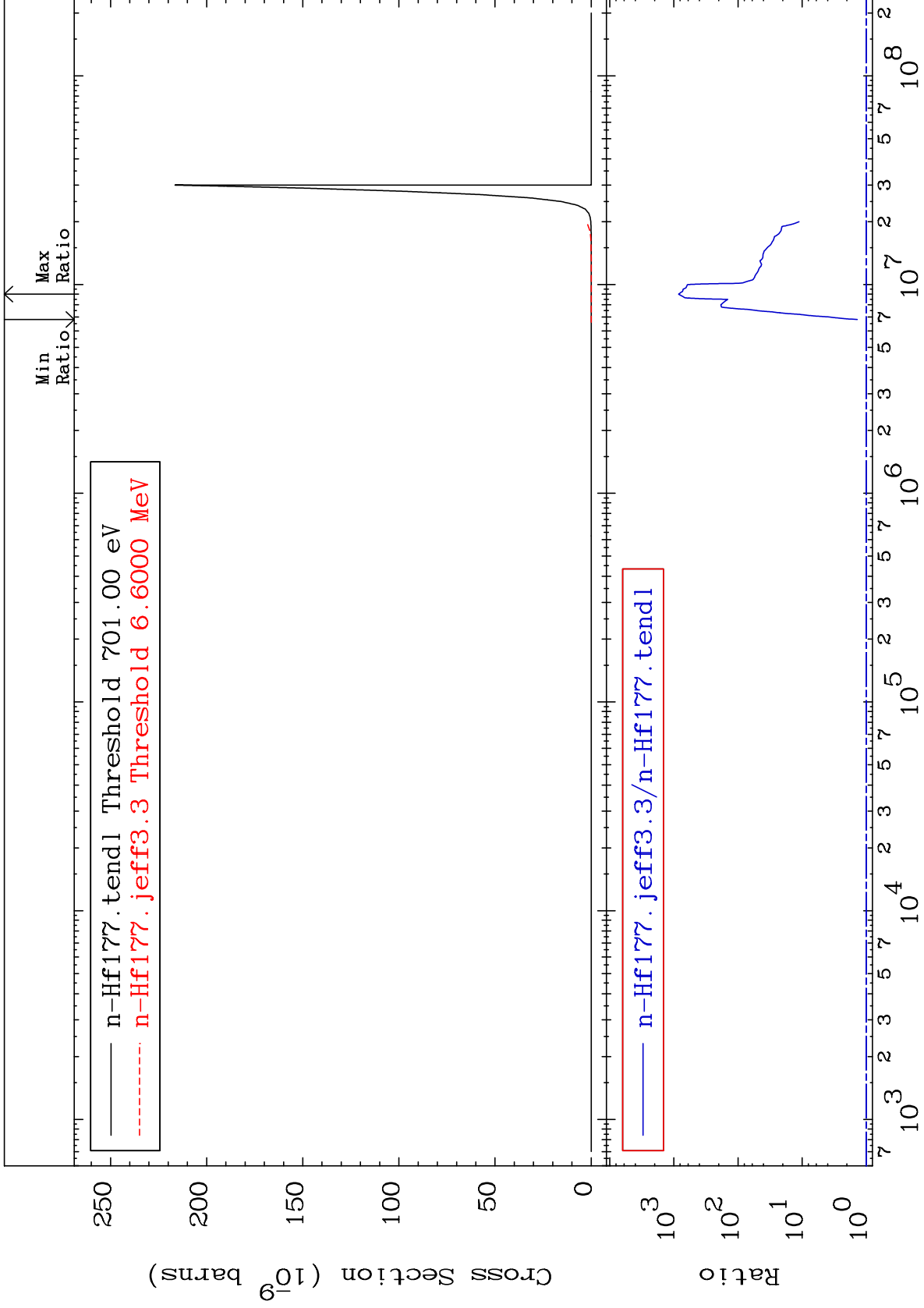
(n,  $\alpha$ )  
Cross Section  
72-Hf-177  
-100.0 To 1104. %



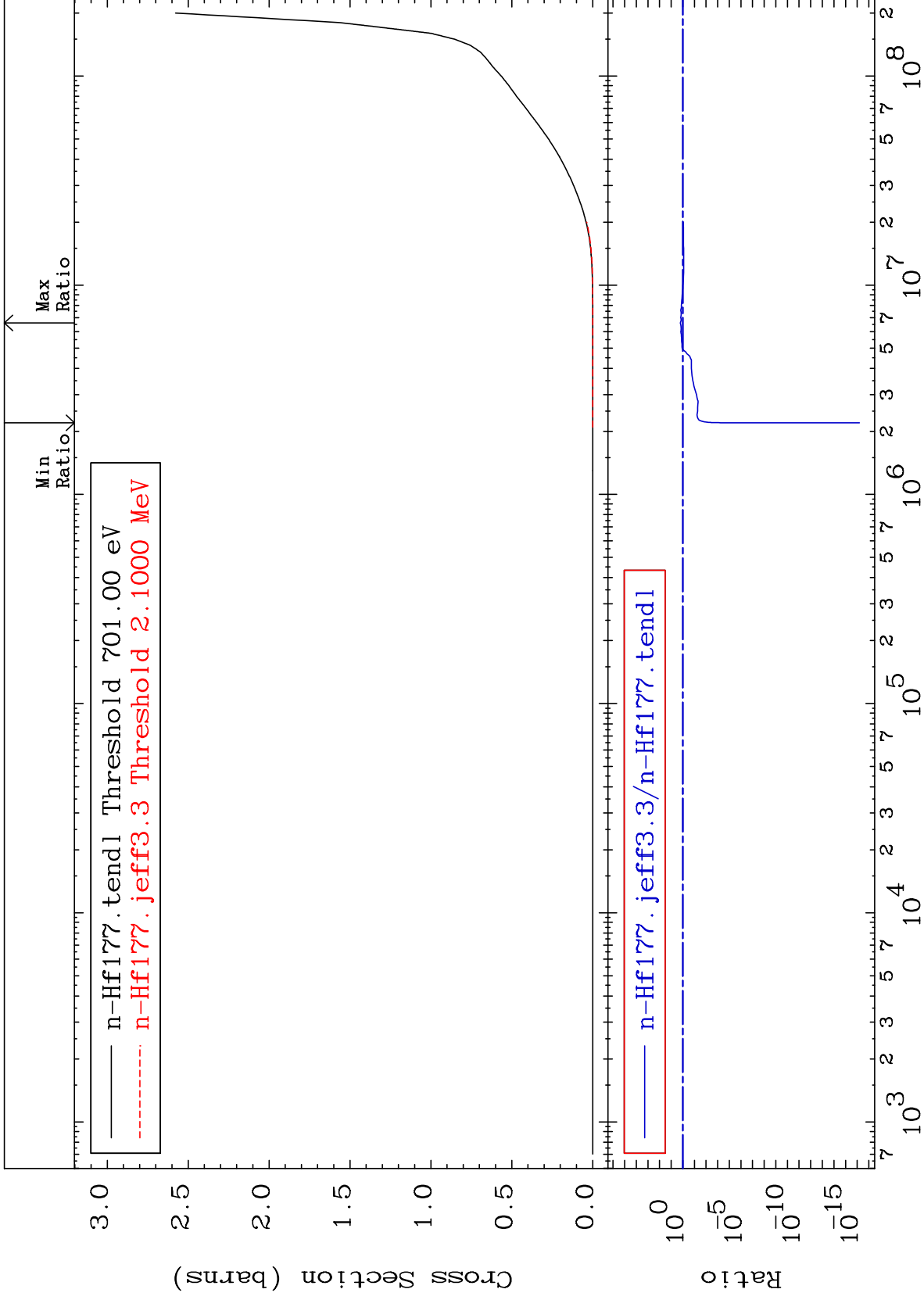
MAT 7234

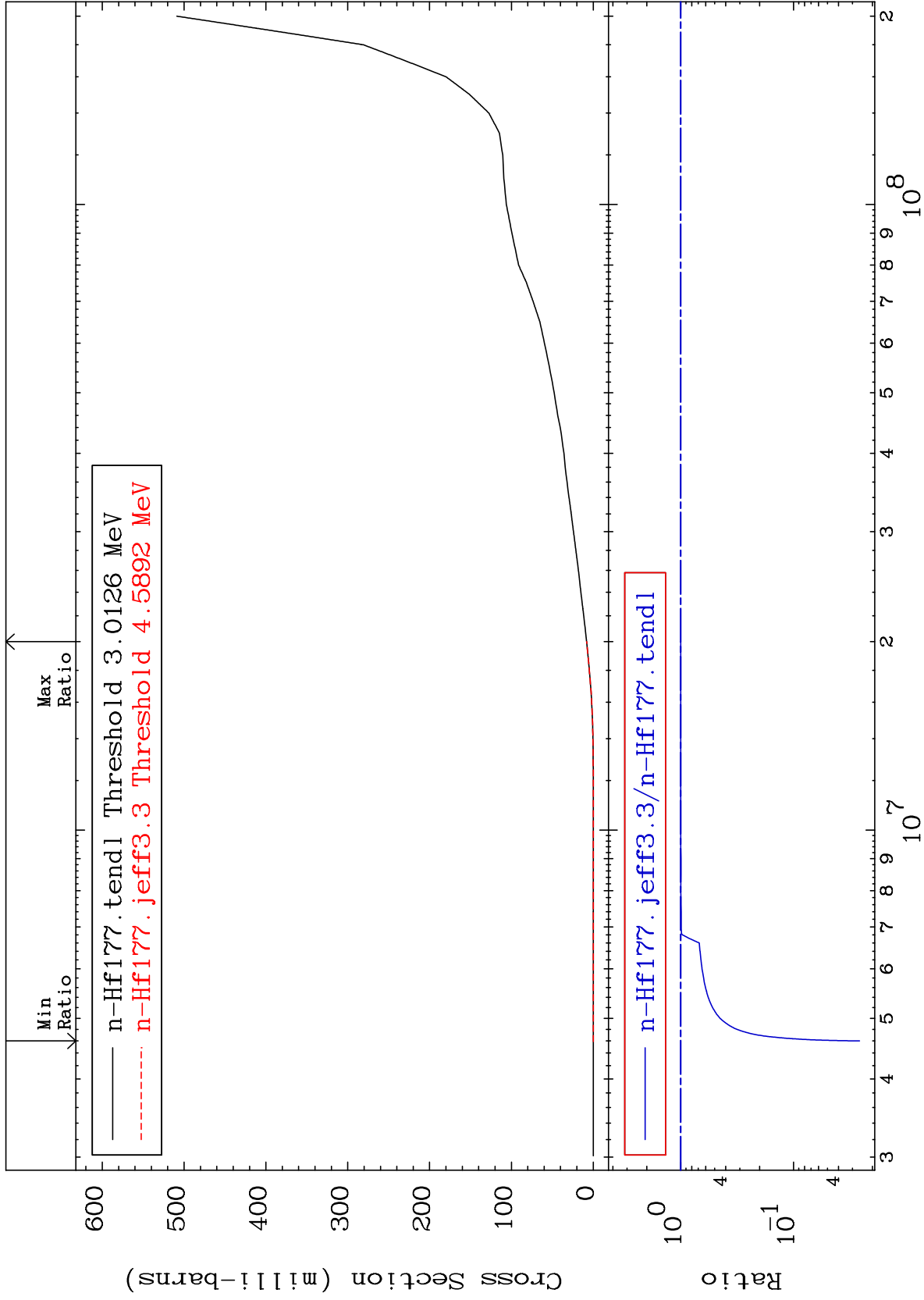
(n, p)  $\alpha$   
Cross Section

72-Hf-177  
38.16 To 9999. %





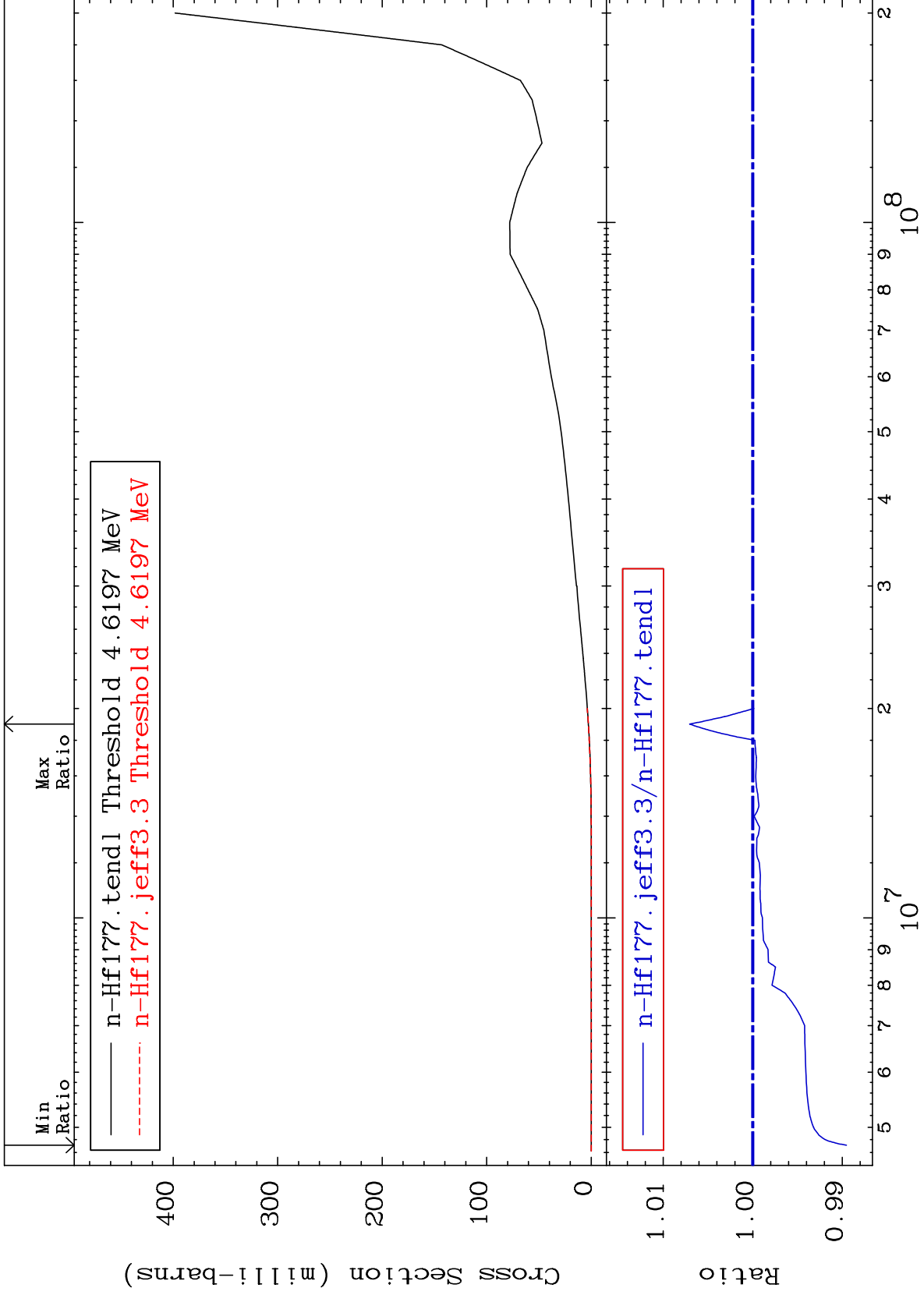




MAT 7234

Tritium Production  
Cross Section

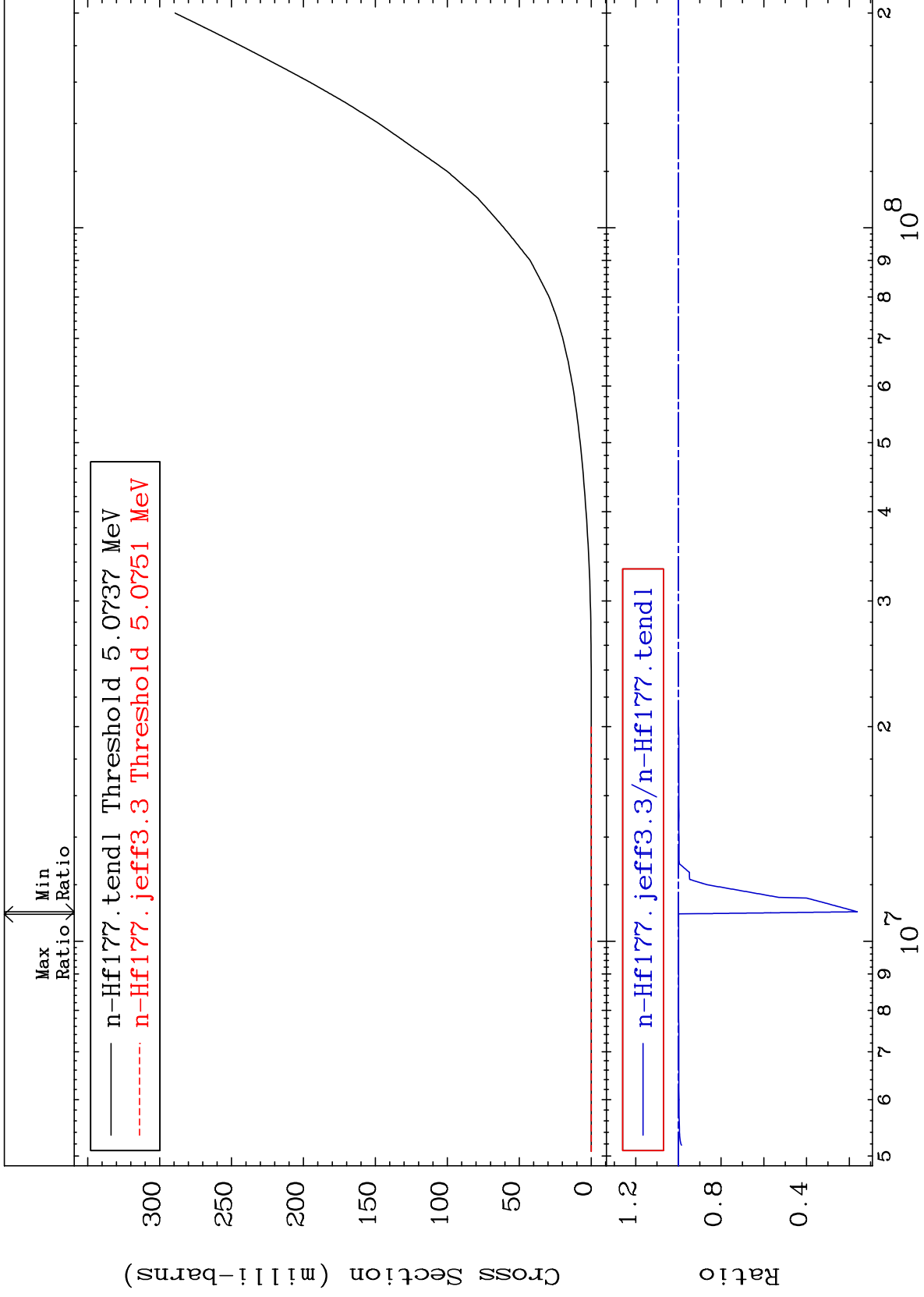
<sup>72</sup>Hf-177  
-1.046 To 0.707 %



MAT 7234

He-3 Production  
Cross Section

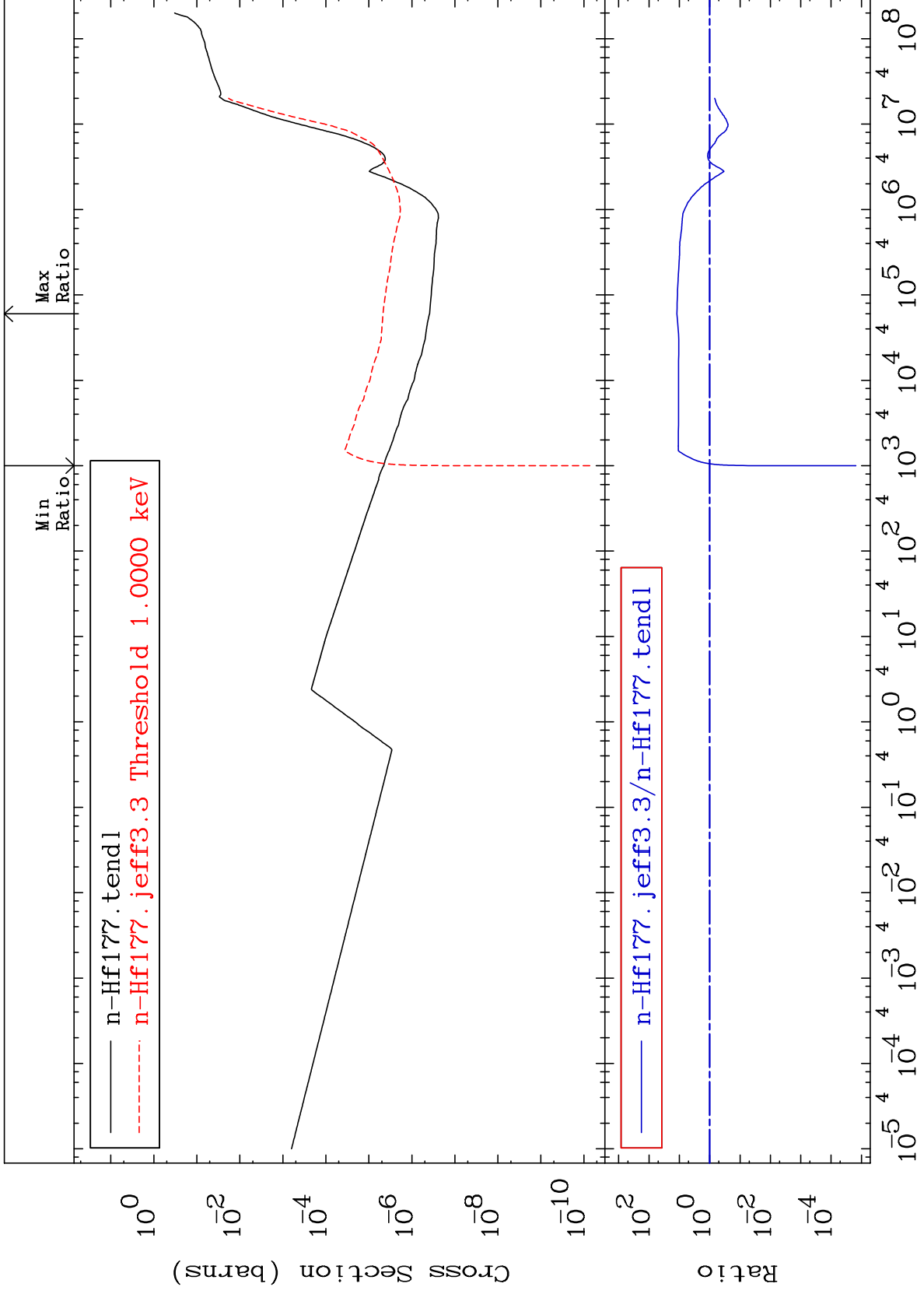
<sup>72</sup>Hf-177  
-83.74 To -0.113%



MAT 7234

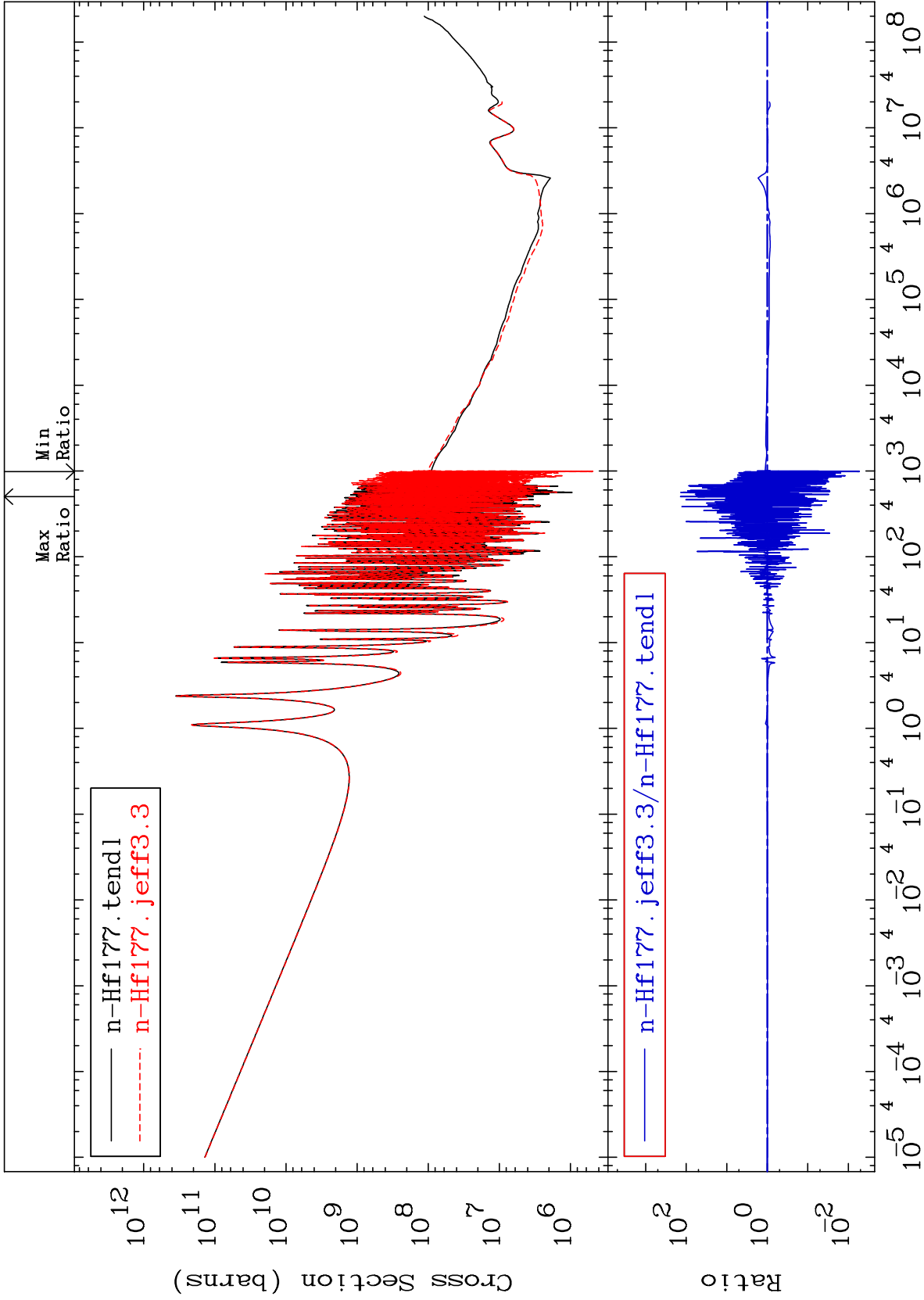
He-4 Production  
Cross Section

72-Hf-177  
-100.0 To 1104. %



Cross Section

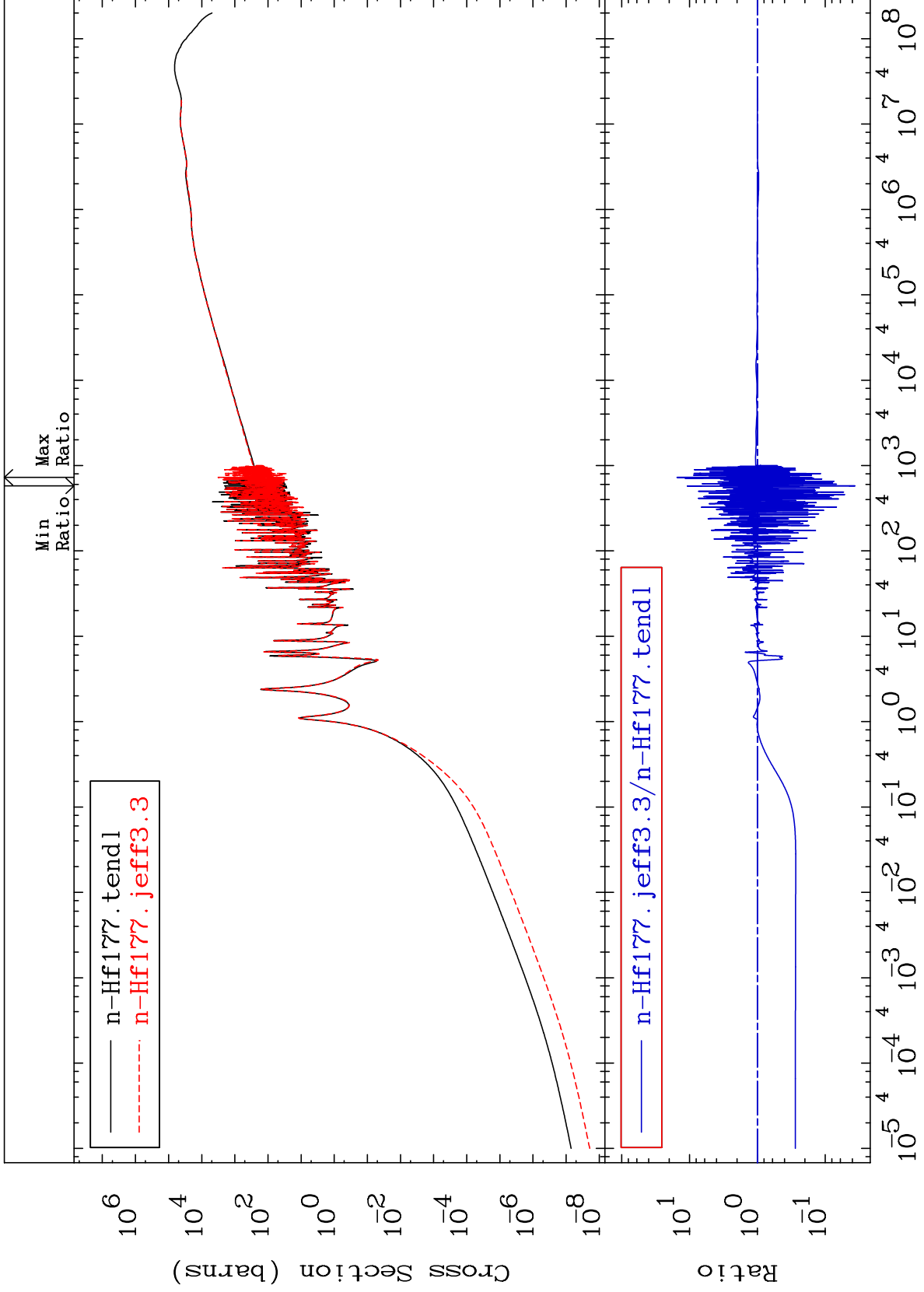
-99.47 To 9999. %

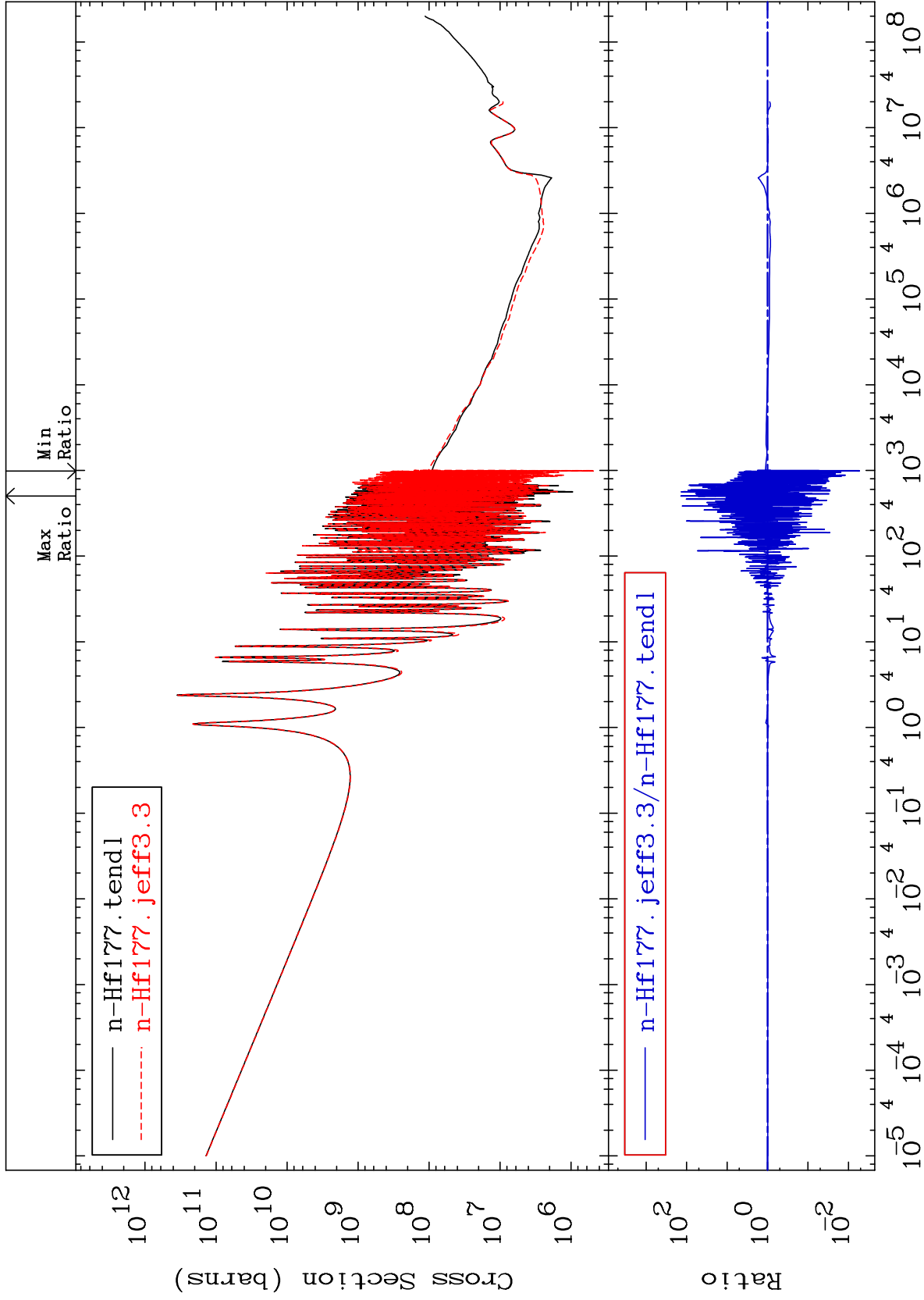


MAT 7234

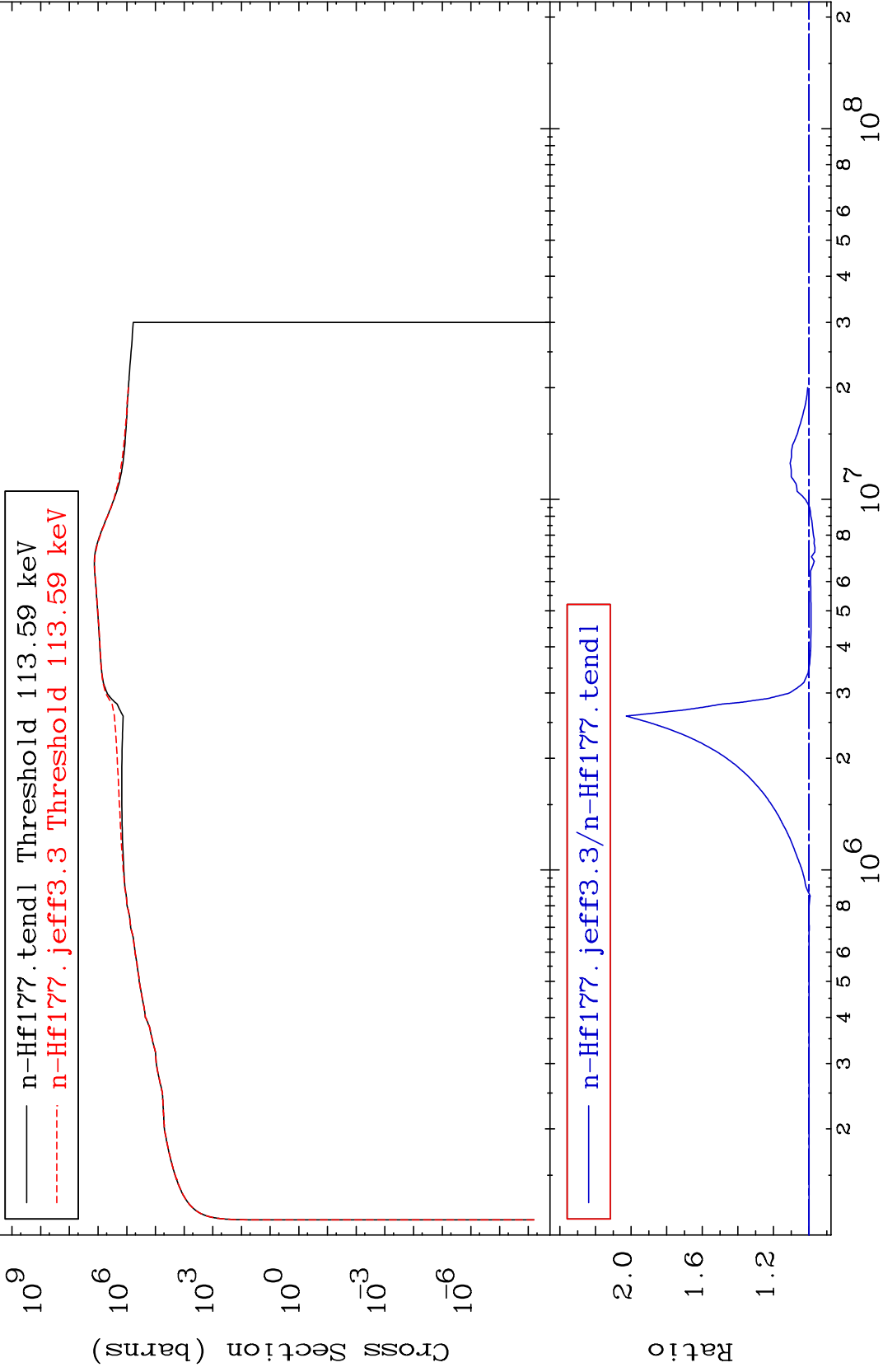
Kerma elastic  
Cross Section

72-Hf-177  
-96.36 To 1436. %





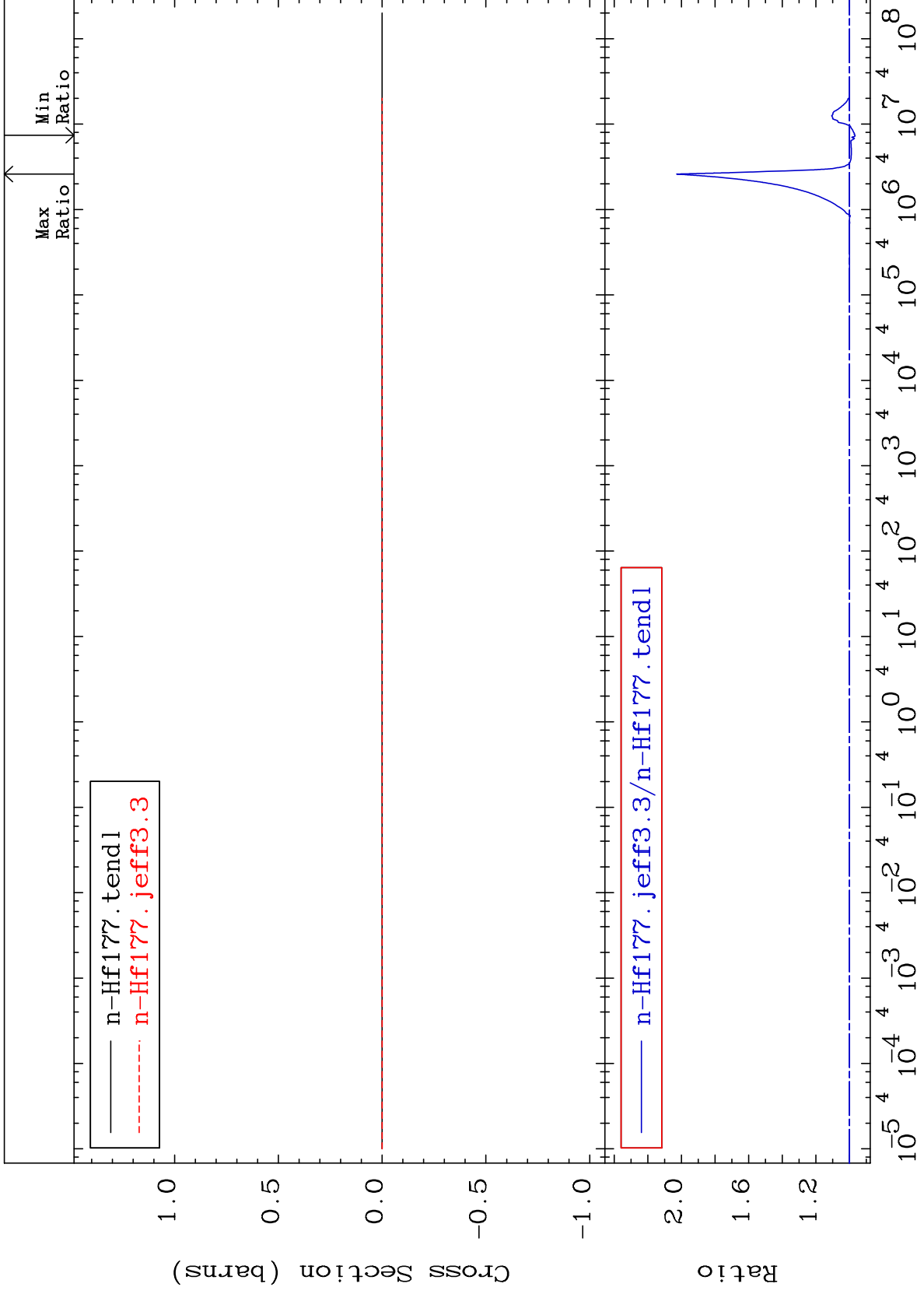




MAT 7234

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

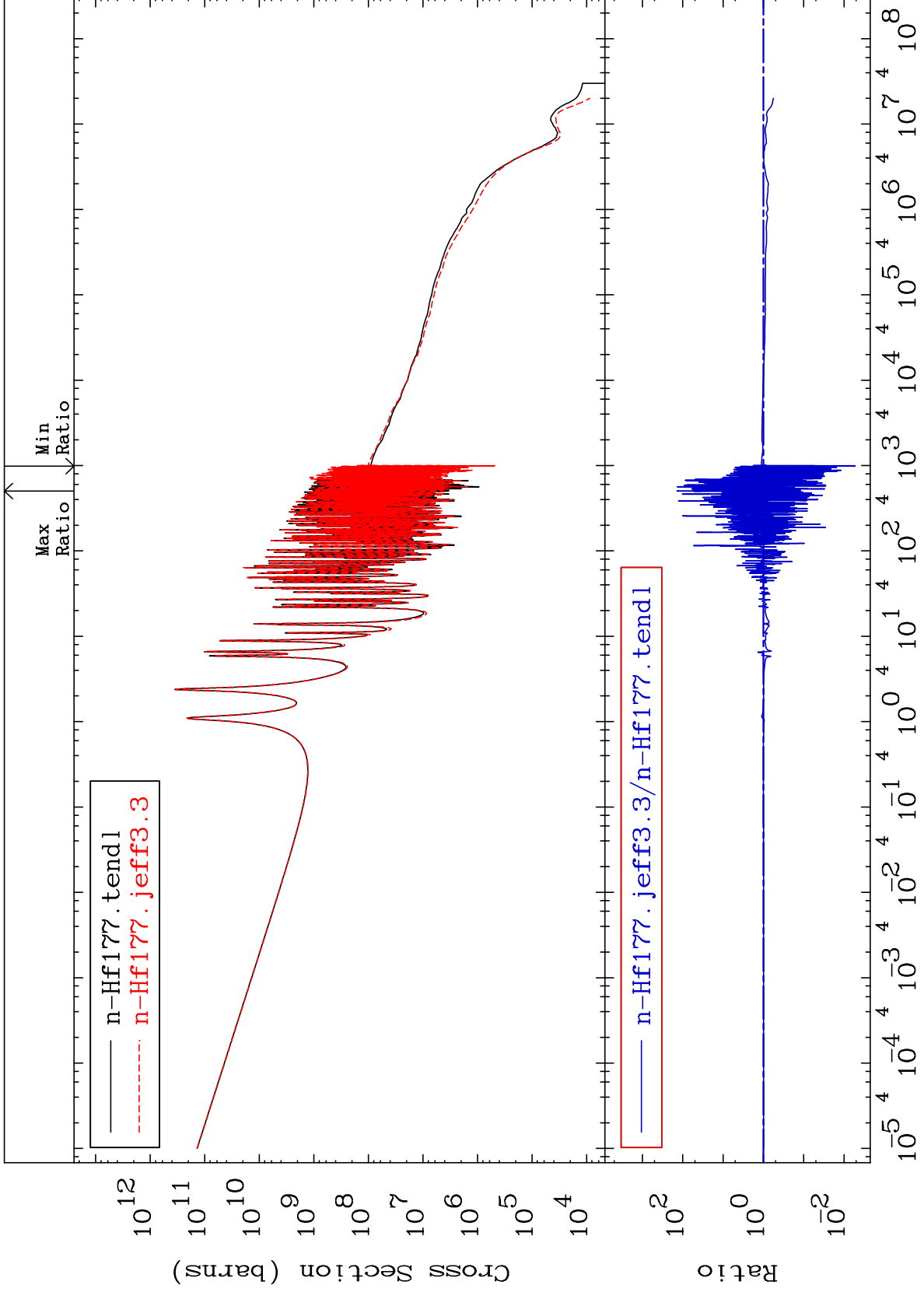
72-Hf-177  
-3.321 To 102.7 %



MAT 7234

Kerma capture (mt102)  
Cross Section

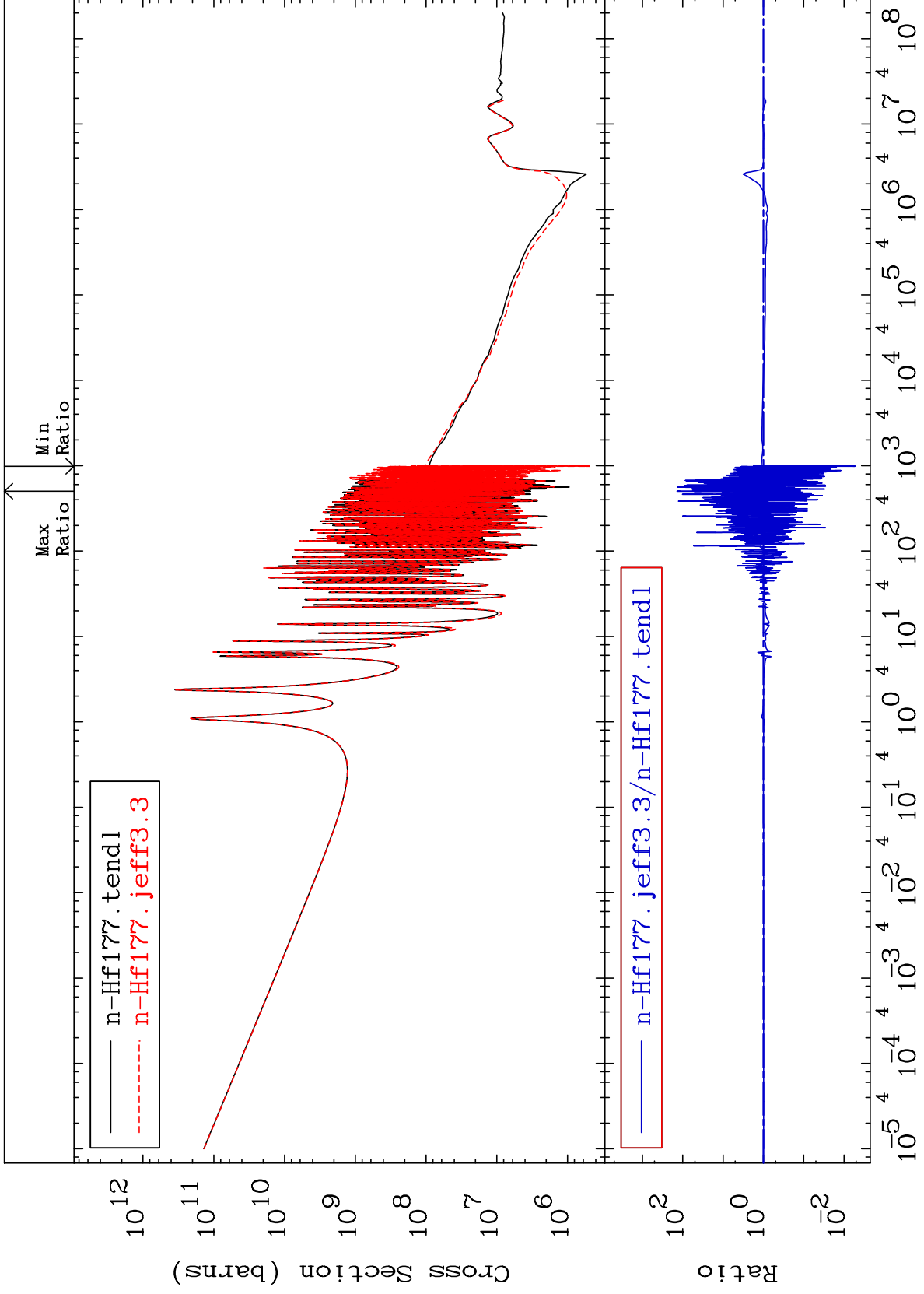
72-Hf-177  
-99.47 To 9999. %



MAT 7234

Total photon (eV-barns)  
Cross Section

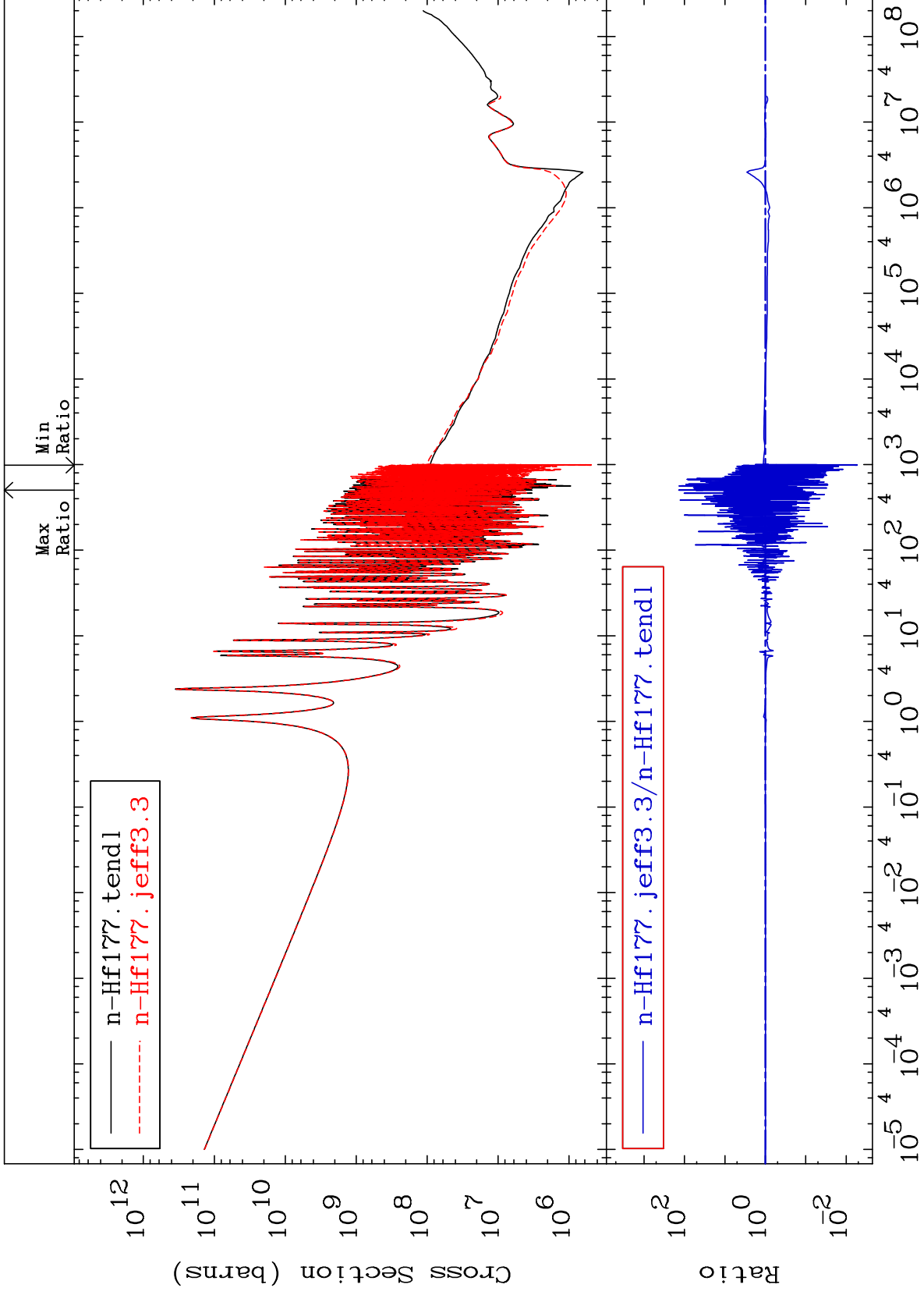
72-Hf-177  
-99.47 To 9999. %



60

Incident Energy (eV)

72-Hf-177



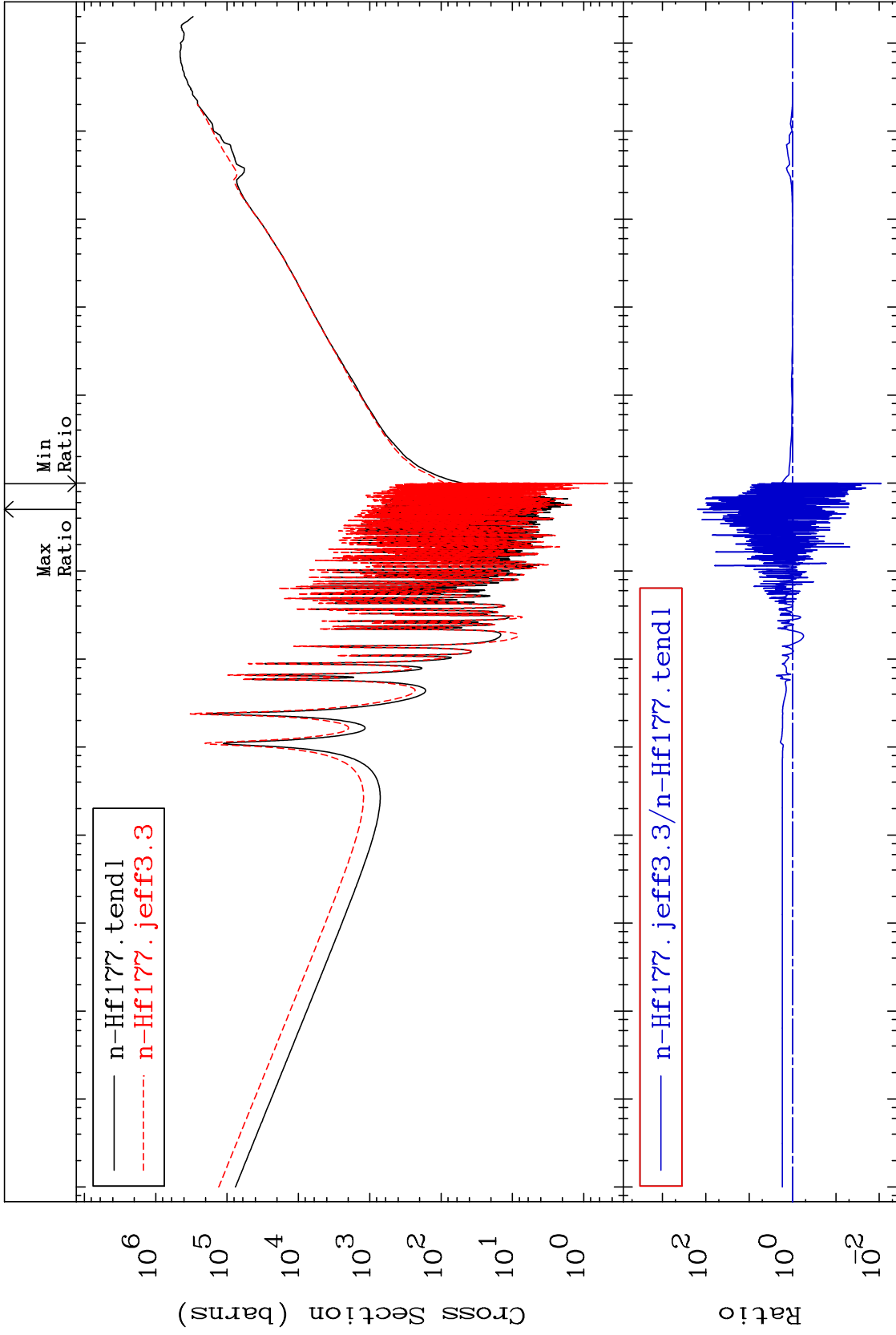
MAT 7234

Dpa total (eV-barns)

72-Hf-177

-99.09 To 9999. %

Cross Section



62

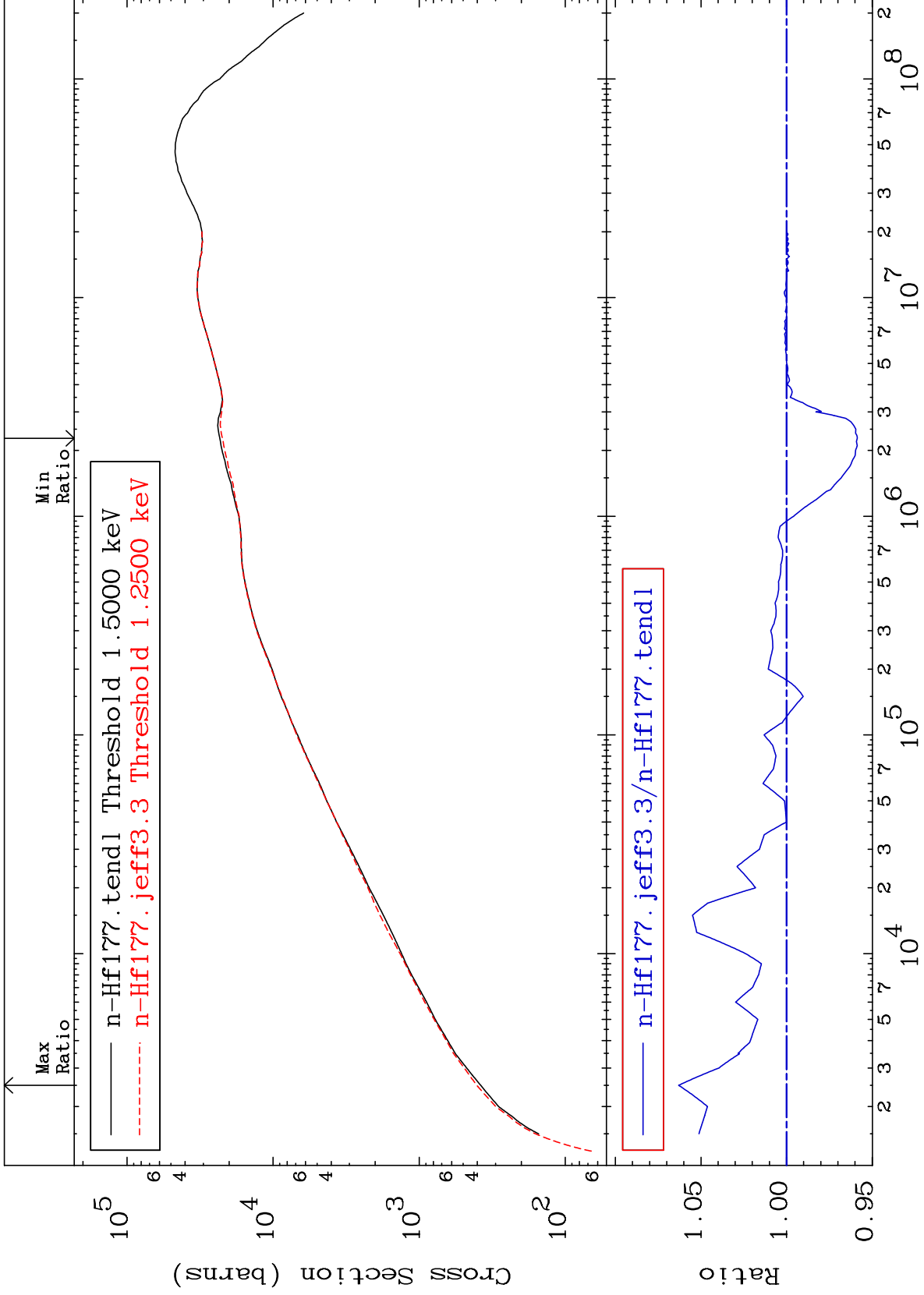
Incident Energy (eV)

72-Hf-177

MAT 7234

Dpa elastic (mt2)  
Cross Section

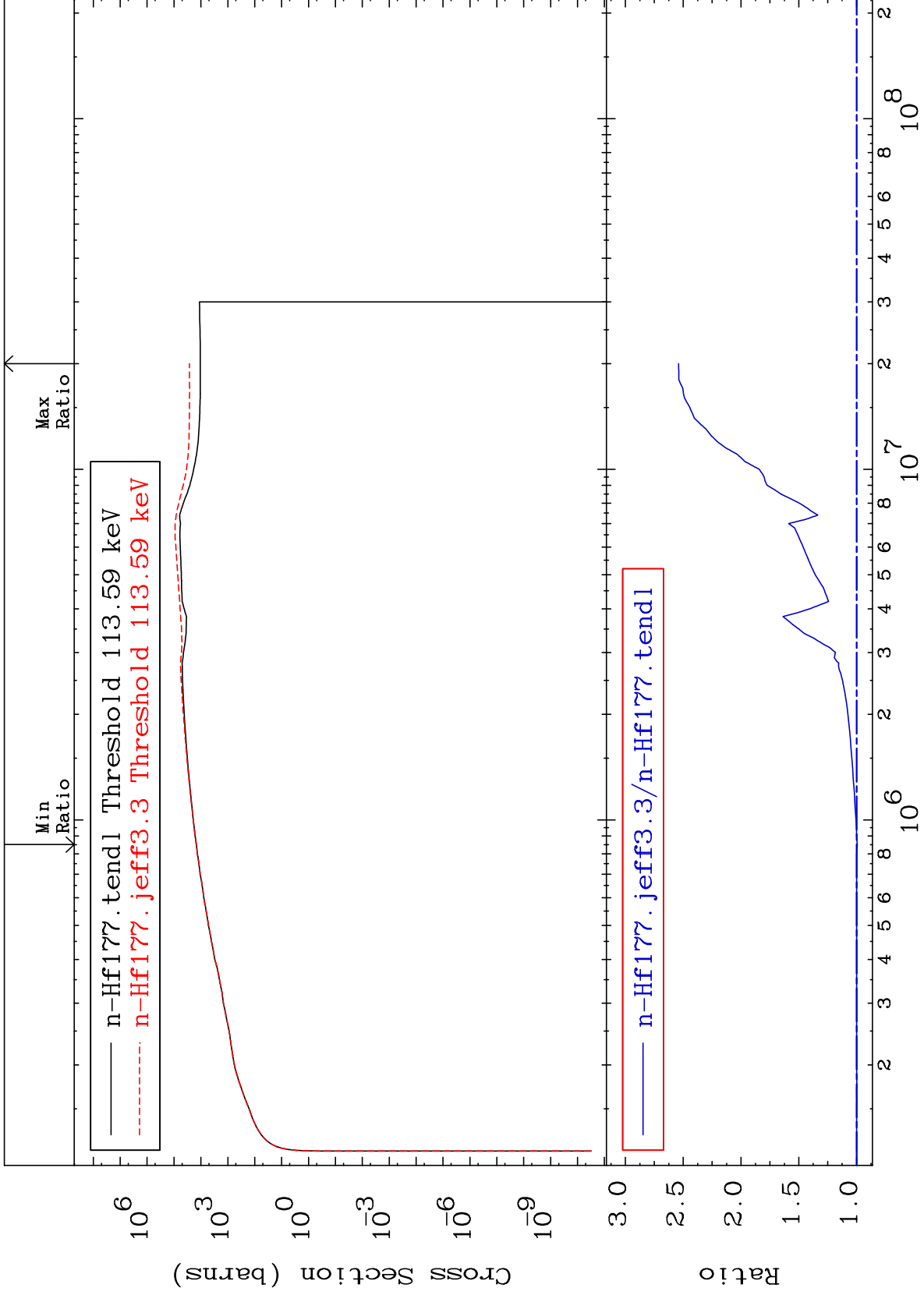
72-Hf-177  
-4.130 To 6.304 %



MAT 7234

Dpa inelastic (mt51-91)  
Cross Section

72-Hf-177  
-0.570 To 154.0 %

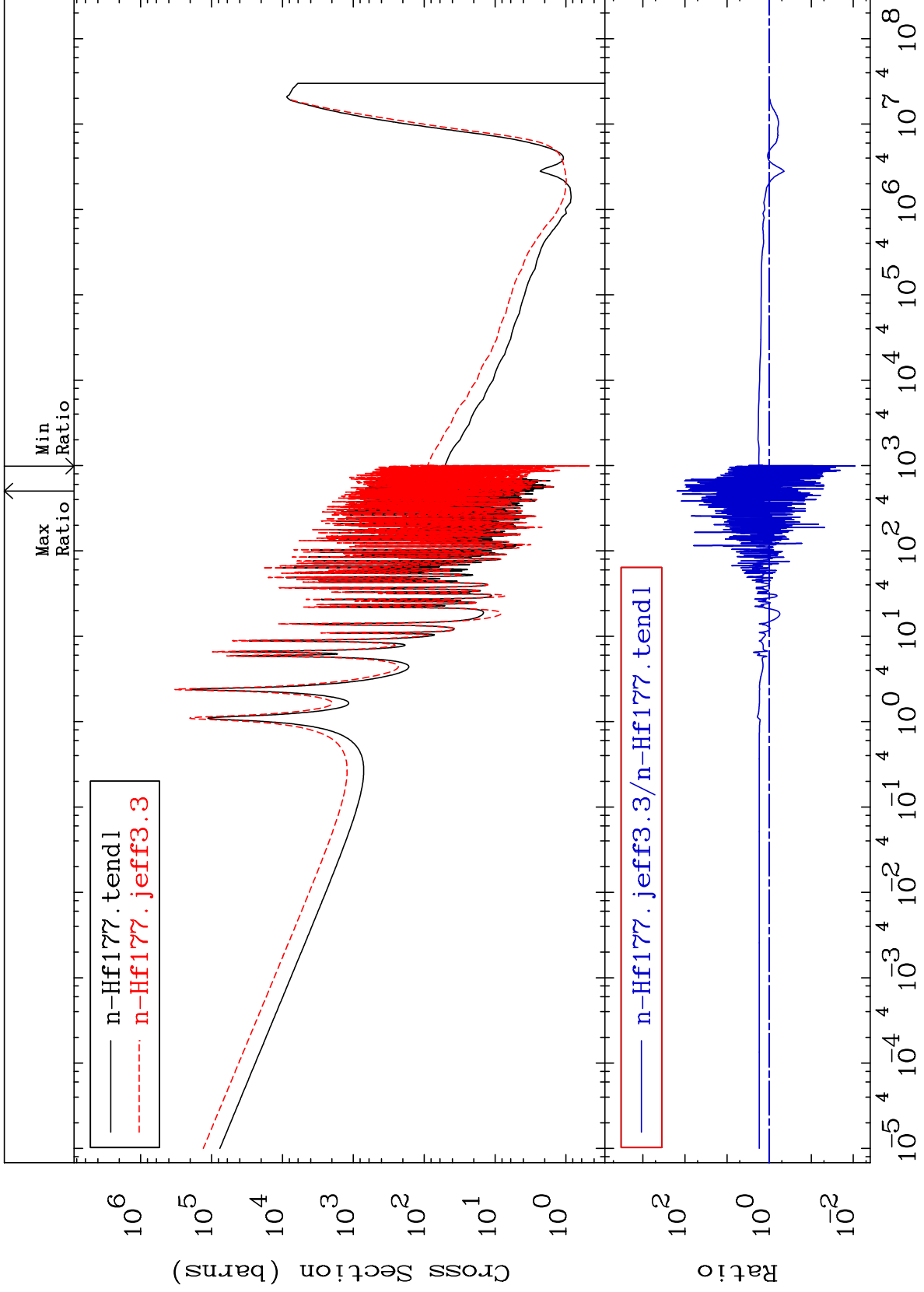




MAT 7234

Dpa disappearance (mt102 -120)  
Cross Section

72-Hf-177  
-99.09 To 9999. %



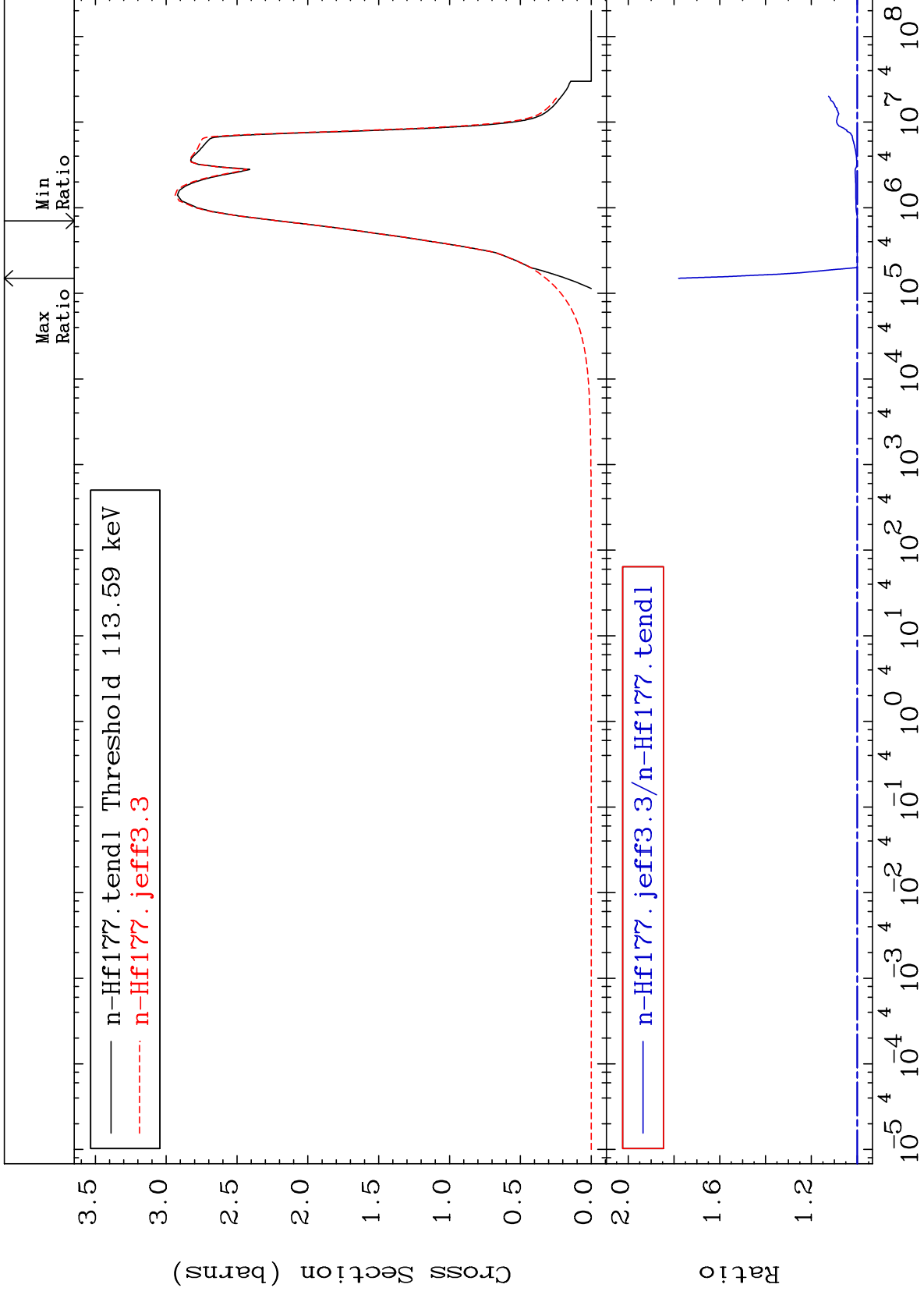
MAT 7234

Inelastic: 72-Hf-177g

72-Hf-177

Radionuclide Production Cross Section

-0.029 To 77.96 %



Incident Energy (eV)

72-Hf-177

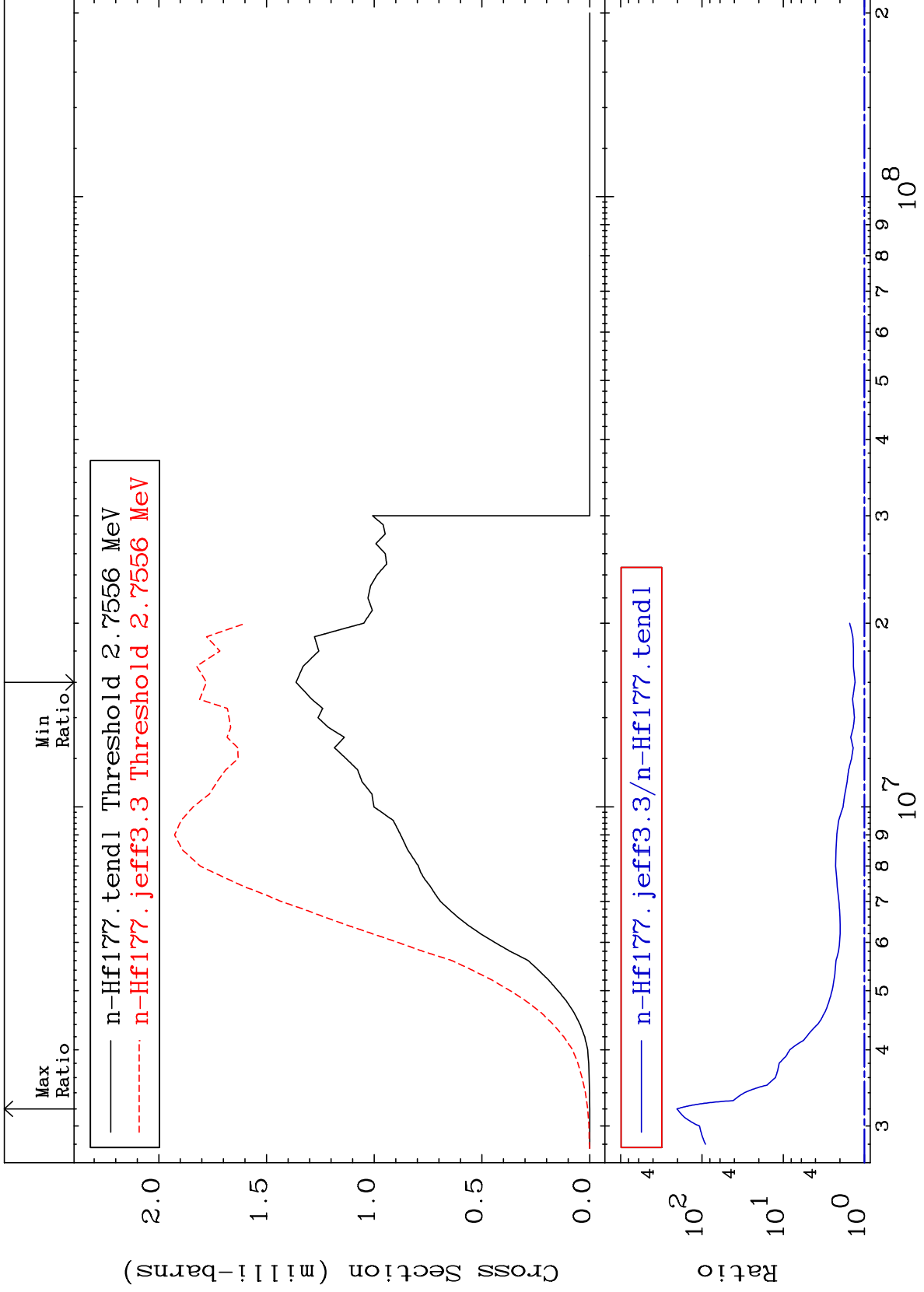
66

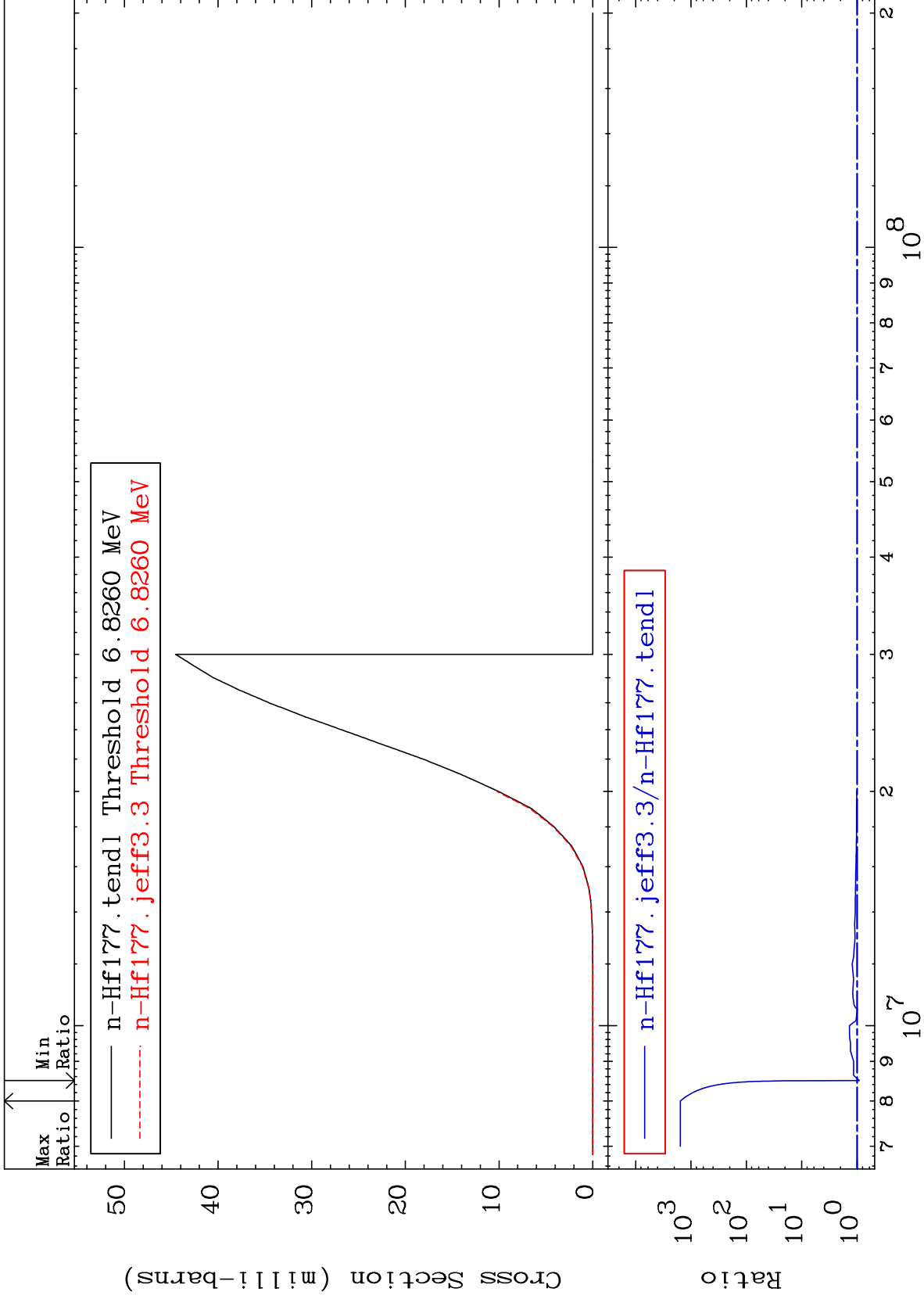
MAT 7234

Inelastic: 72-Hf-177m30

72-Hf-177

Radionuclide Production Cross Section 30.49 To 9999. %



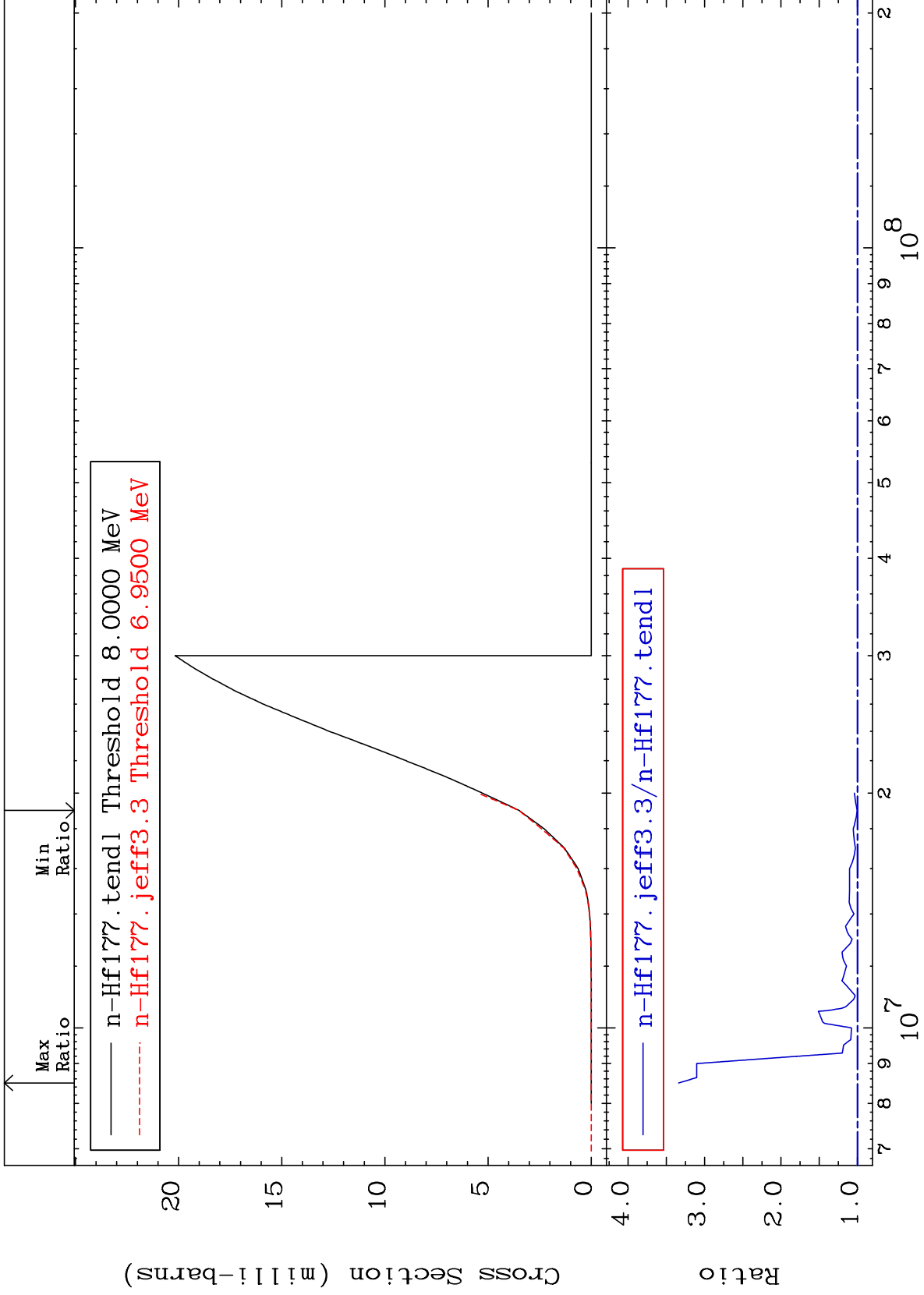


MAT 7234

(n, n') p:71-Lu-176m1

72-Hf-177

Radionuclide Production Cross Section 0.242 To 233.9 %

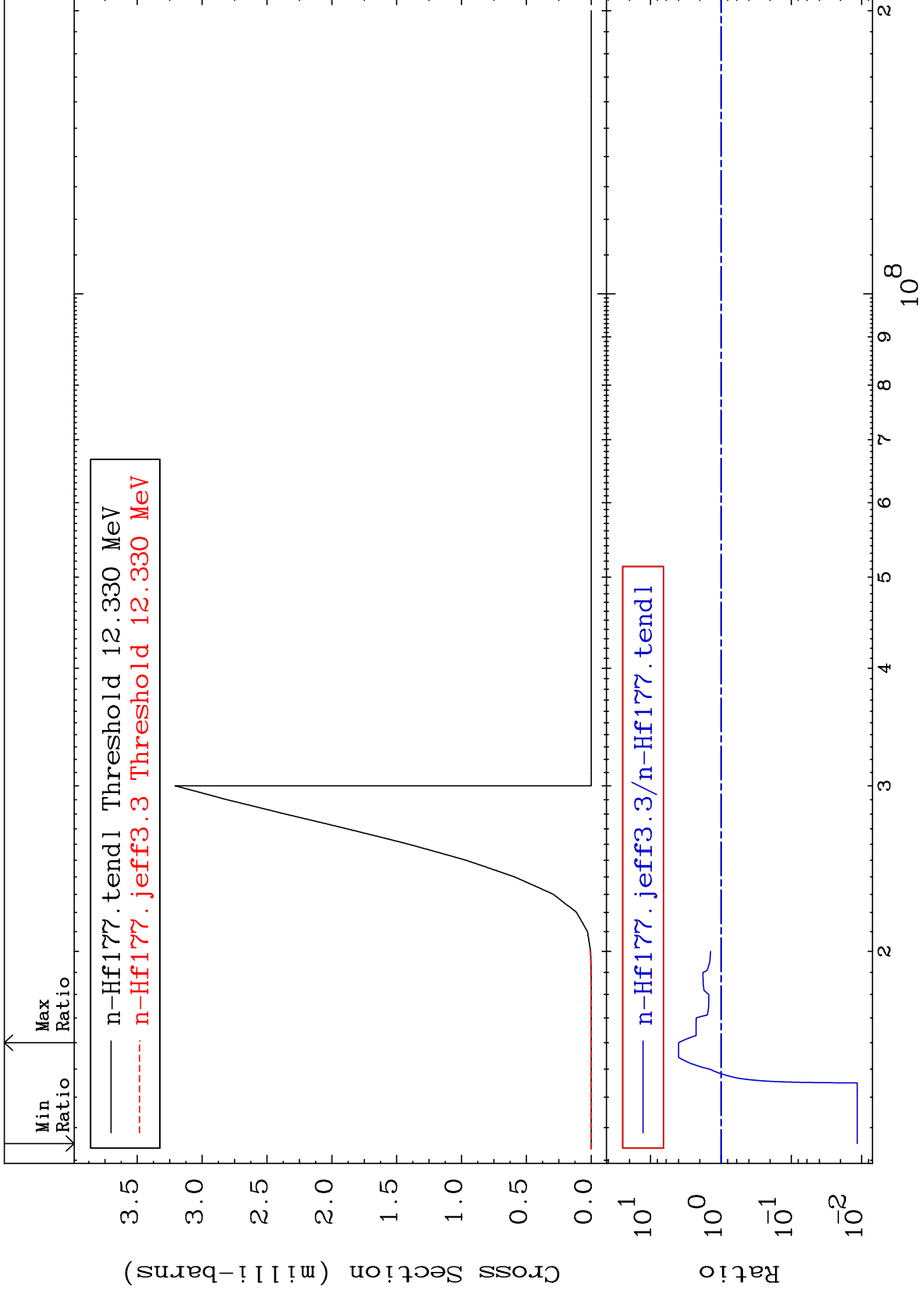


MAT 7234

(n, n') t:71-Lu-174g

72-Hf-177

Radionuclide Production Cross Section -98.84 To 299.5 %



70

Incident Energy (eV)

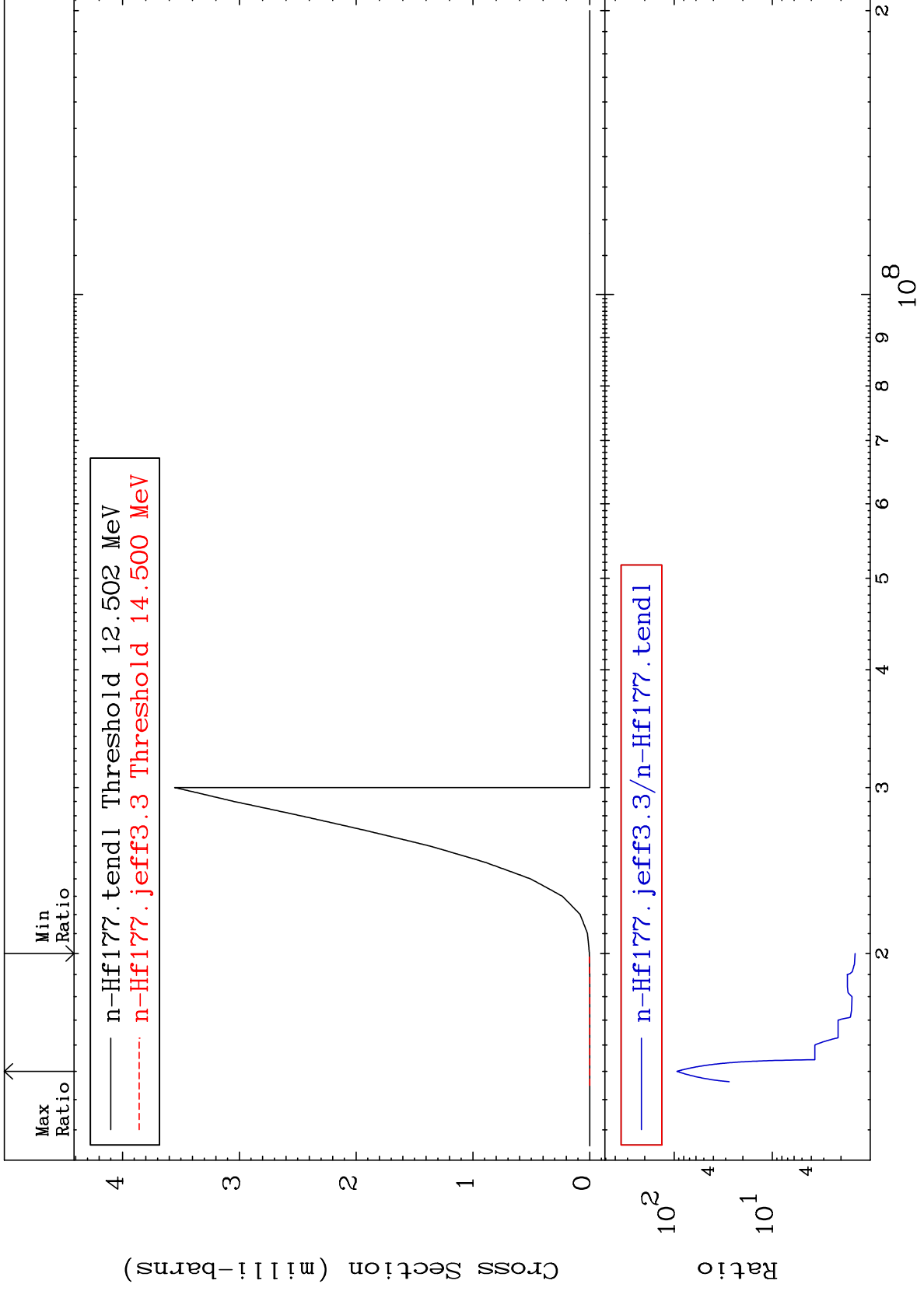
72-Hf-177

MAT 7234

(n, n') t: 71-Lu-174m3

72-Hf-177

Radionuclide Production Cross Section 43.47 To 9293. %

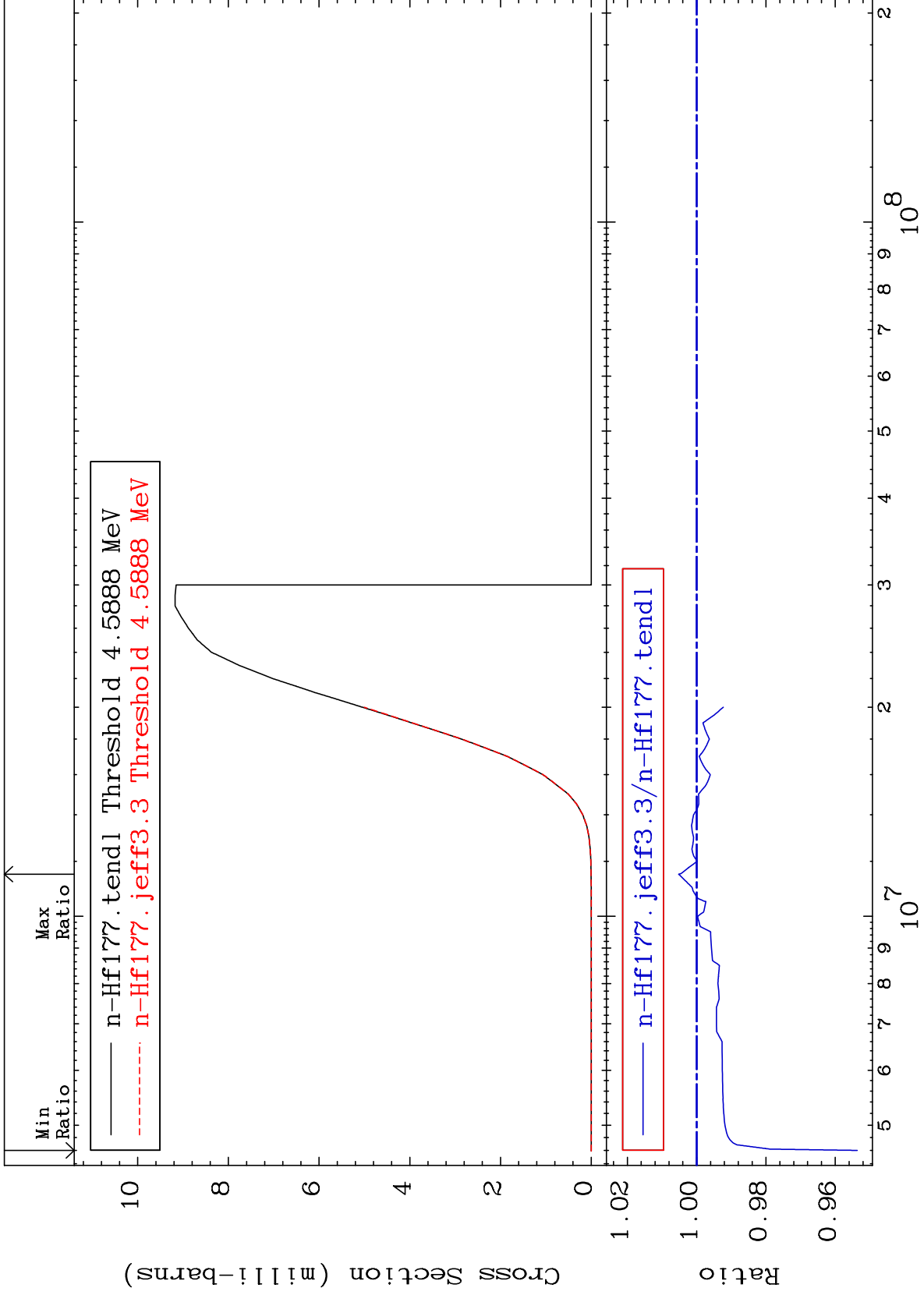


71

Incident Energy (eV)

72-Hf-177

Radionuclide Production Cross Section -4.633 To 0.520 %



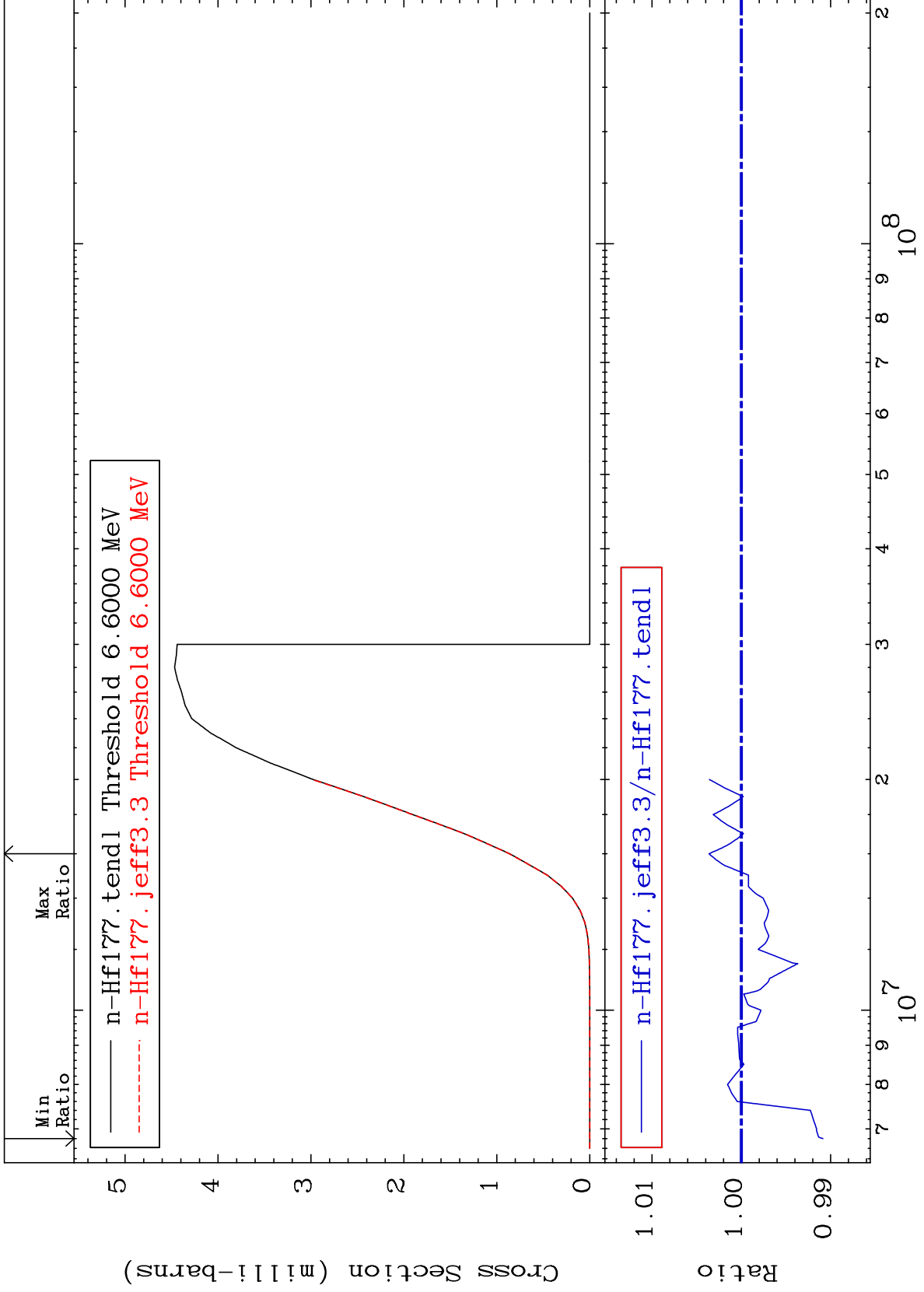


MAT 7234

(n, d) : 71-Lu-176m1

72-Hf-177

Radionuclide Production Cross Section -0.914 To 0.362 %



73