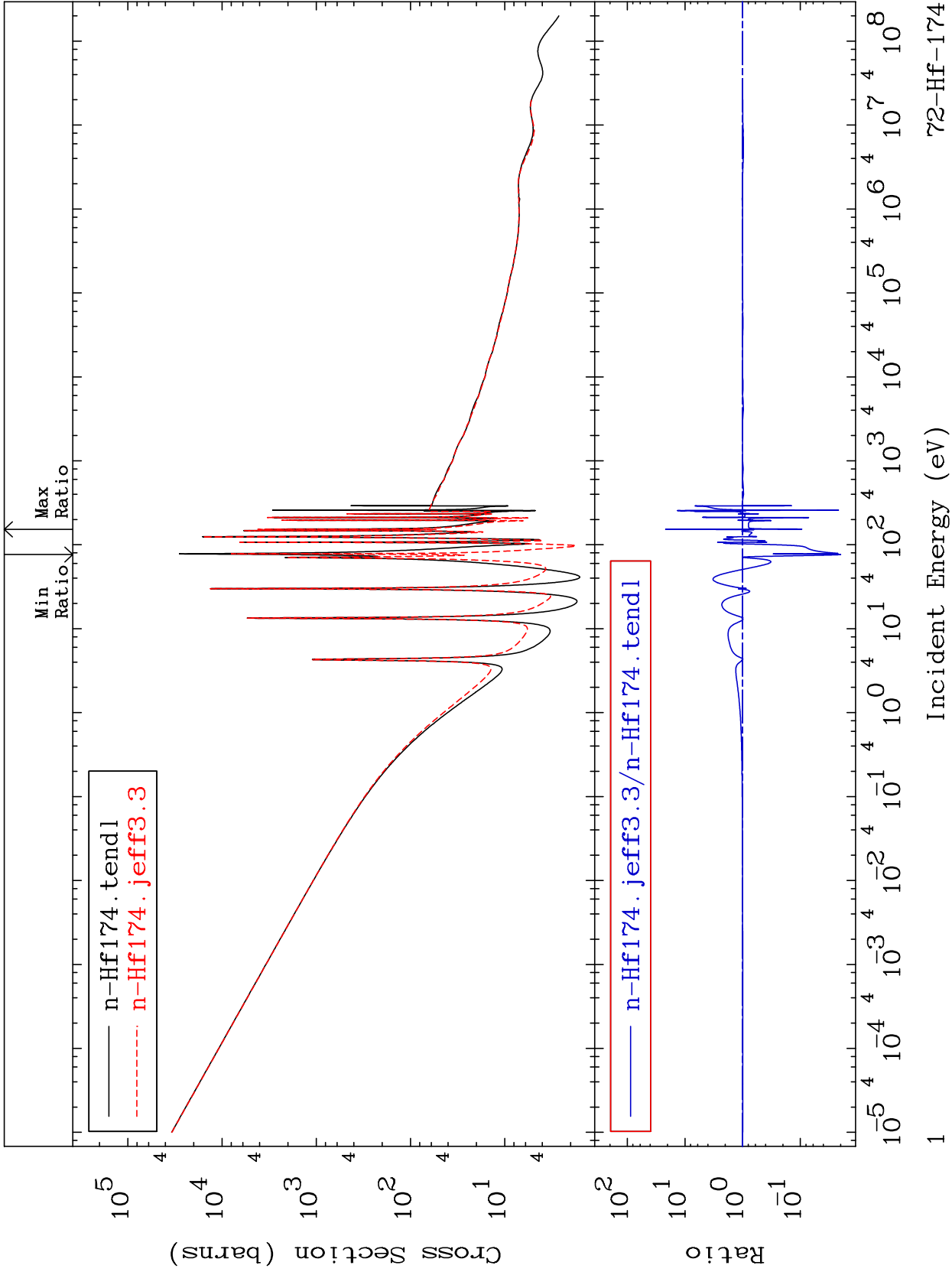


MAT 7225

Total Cross Section  
72-Hf-174  
-98.00 To 2074. %

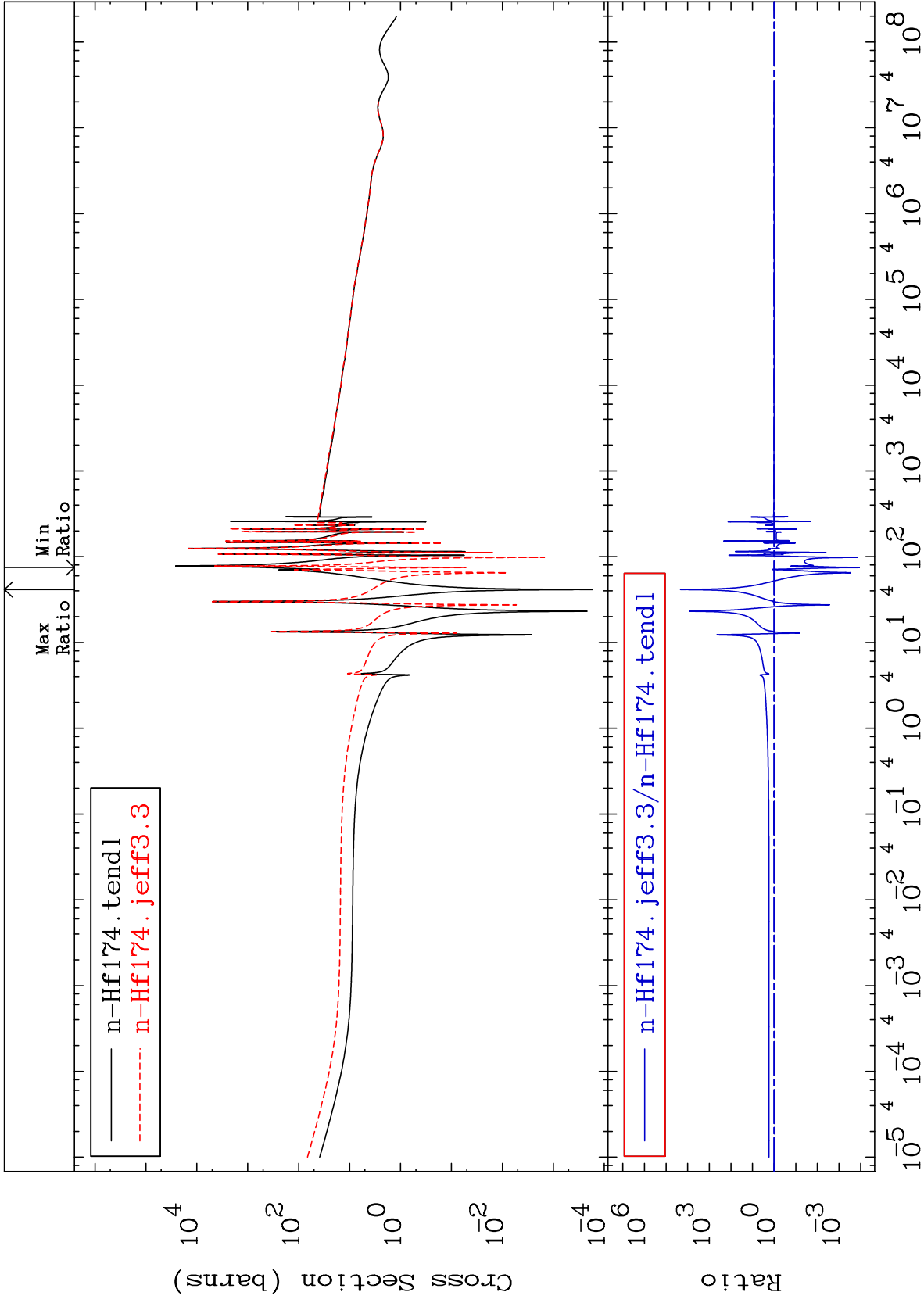


72-Hf-174

MAT 7225

Elastic  
Cross Section

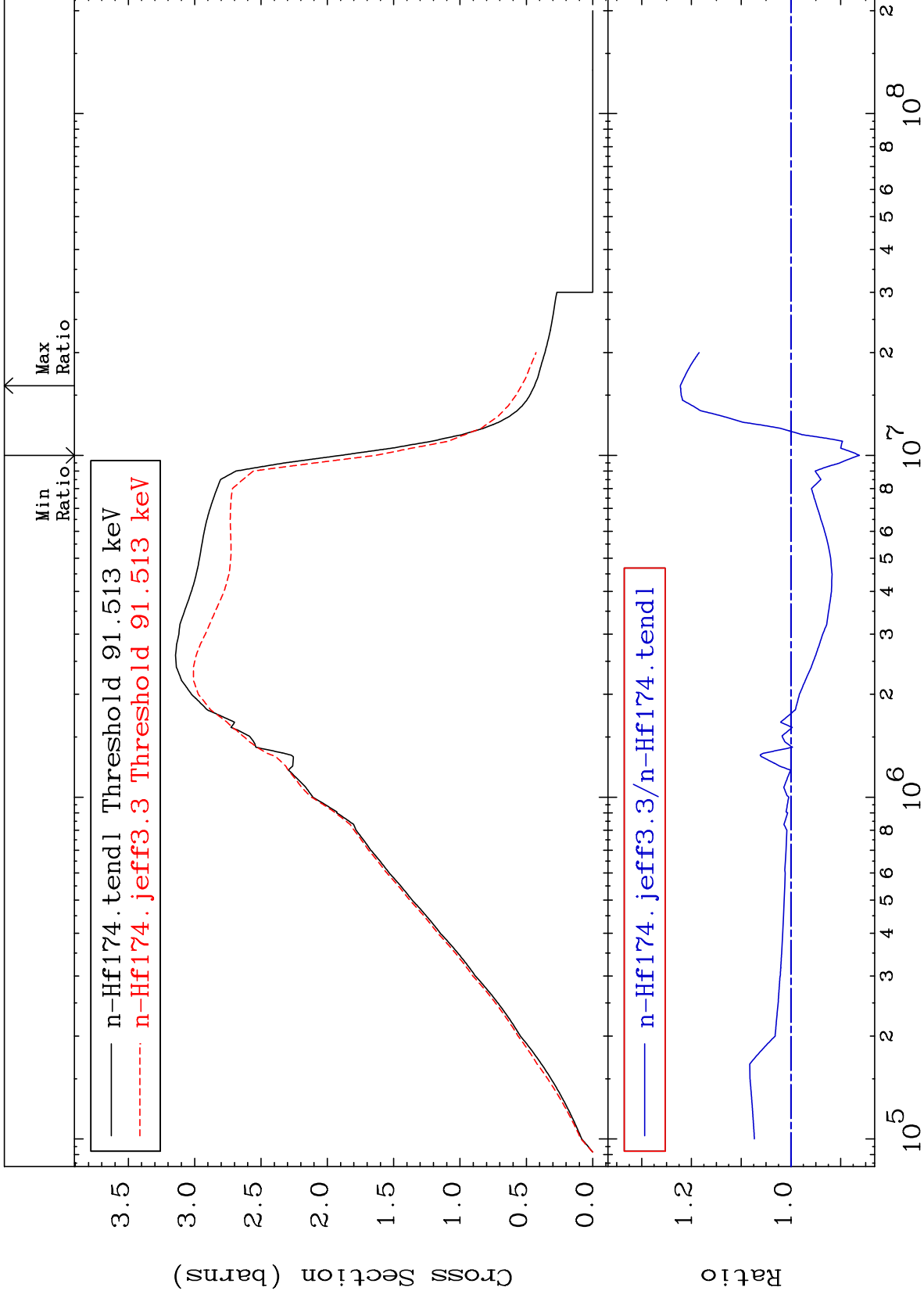
72-Hf-174  
-99.99 To 9999. %



MAT 7225

Inelastic  
Cross Section

72-Hf-174  
-13.76 To 22.23 %



Incident Energy (eV)

72-Hf-174

3

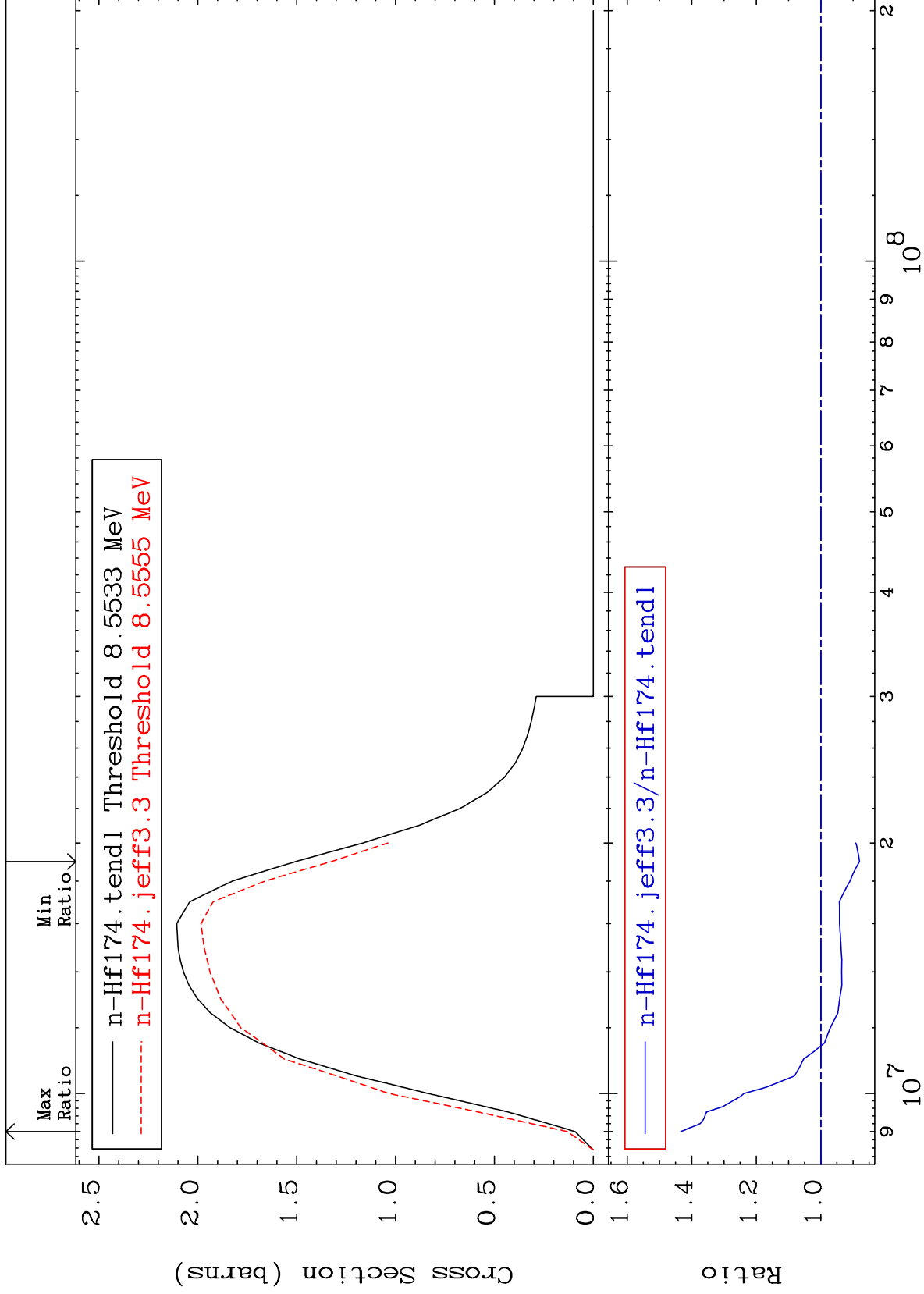
MAT 7225

(n,2n)

<sup>72</sup>Hf-174

Cross Section

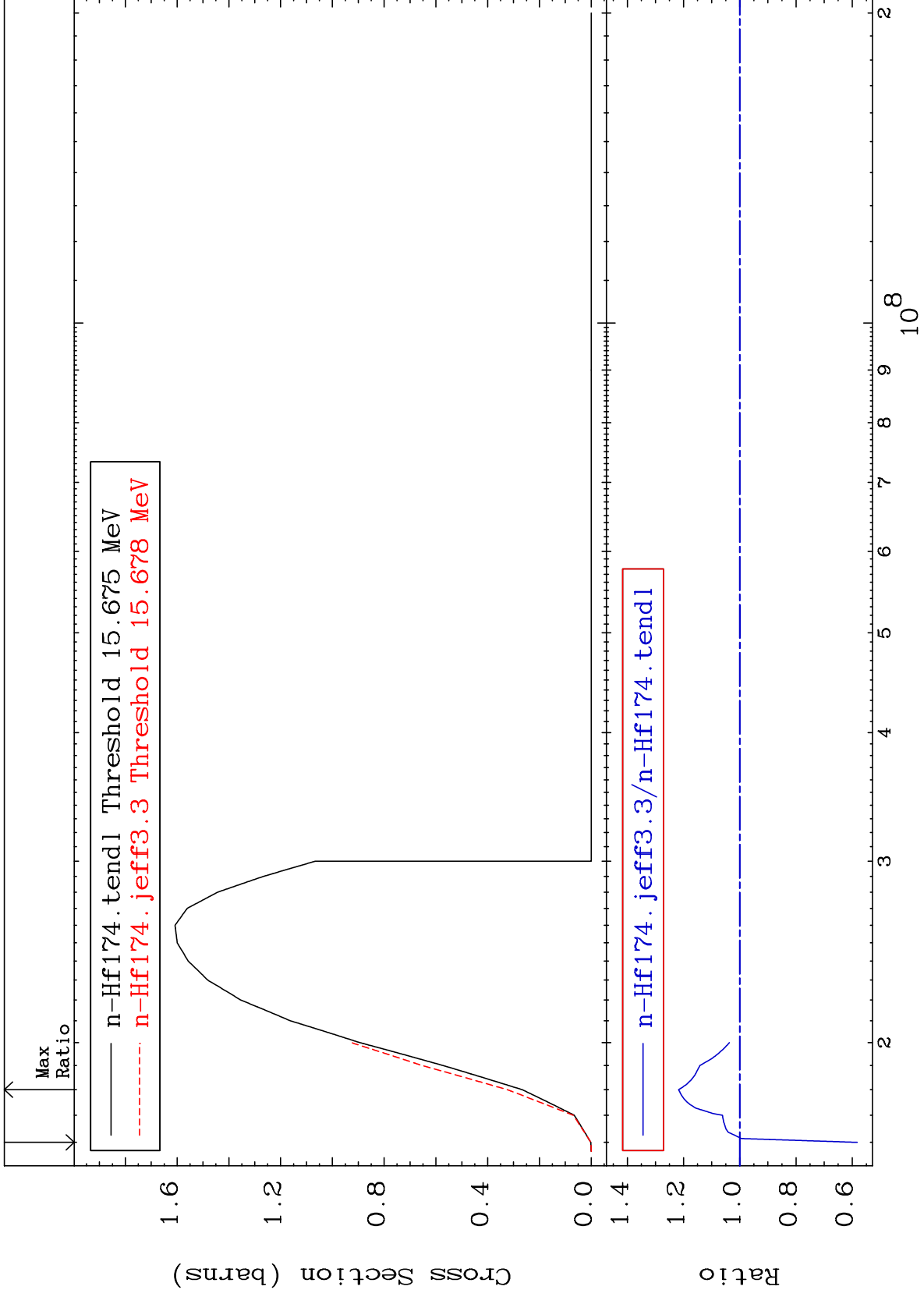
-12.01 To 43.39 %



Incident Energy (eV)

<sup>72</sup>Hf-174

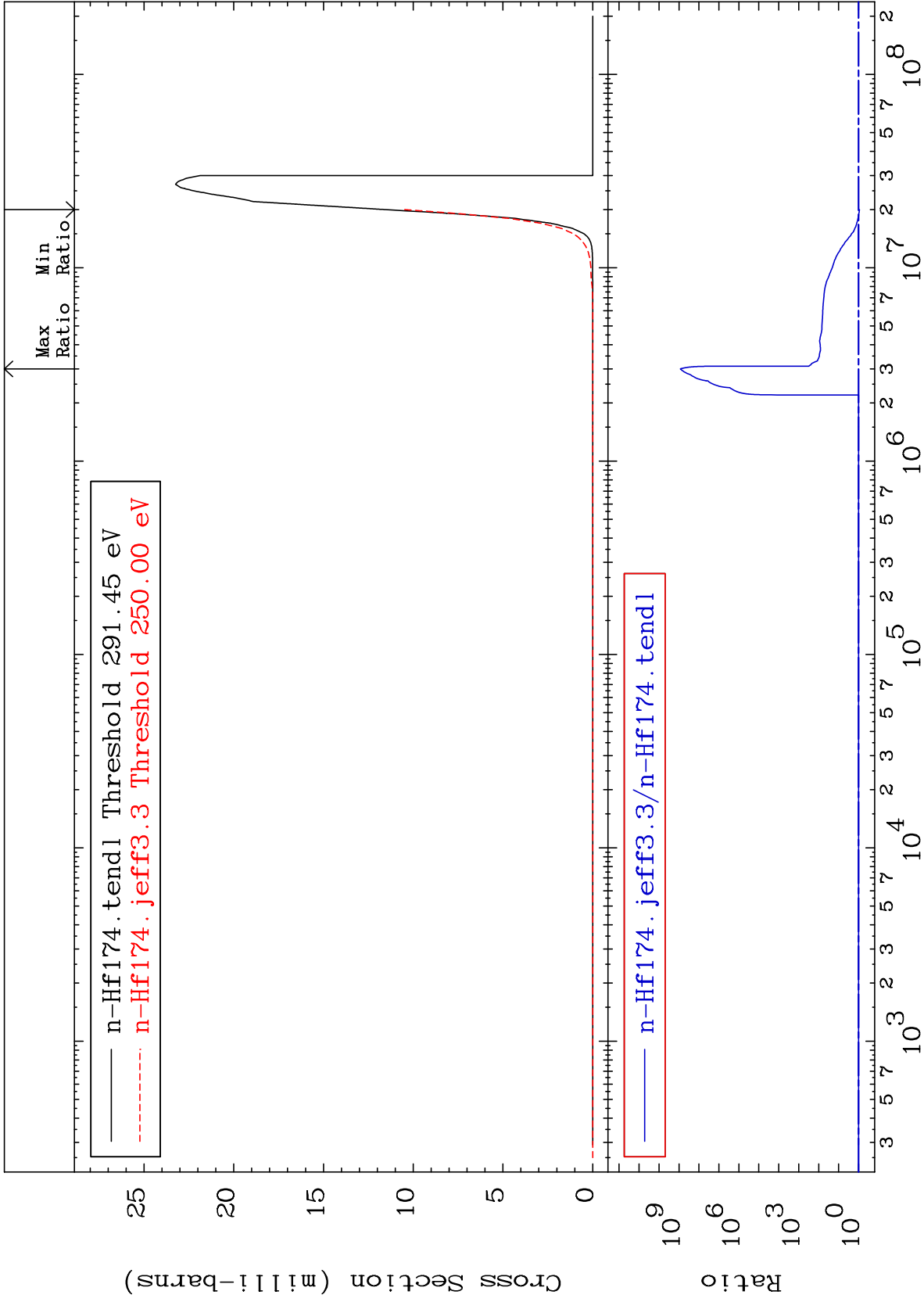
4



MAT 7225

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

72-Hf-174  
-9.195 To 9999. %



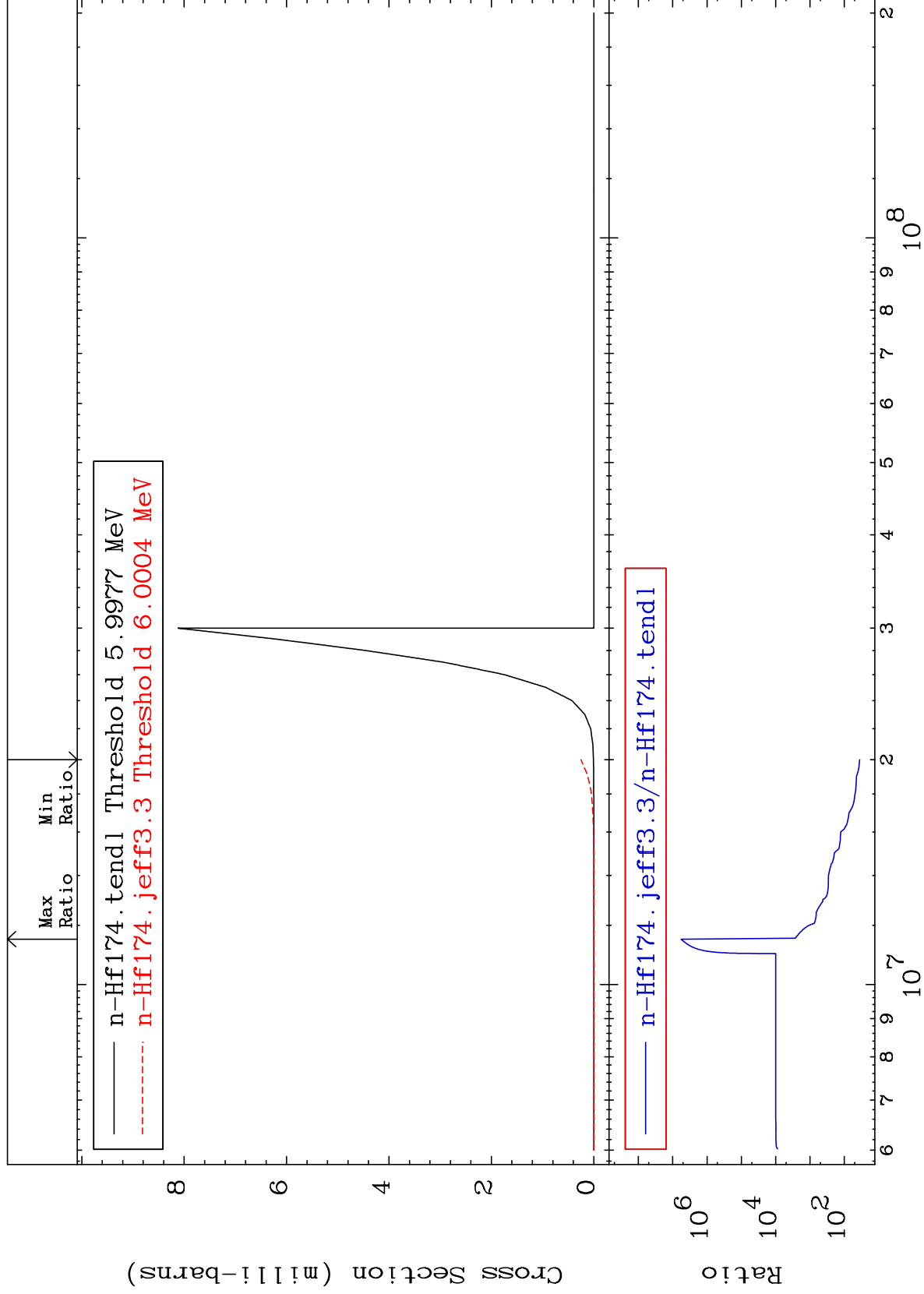
MAT 7225

(n,2n)  $\alpha$

<sup>72</sup>Hf-174

Cross Section

3489. To 9999. %



7

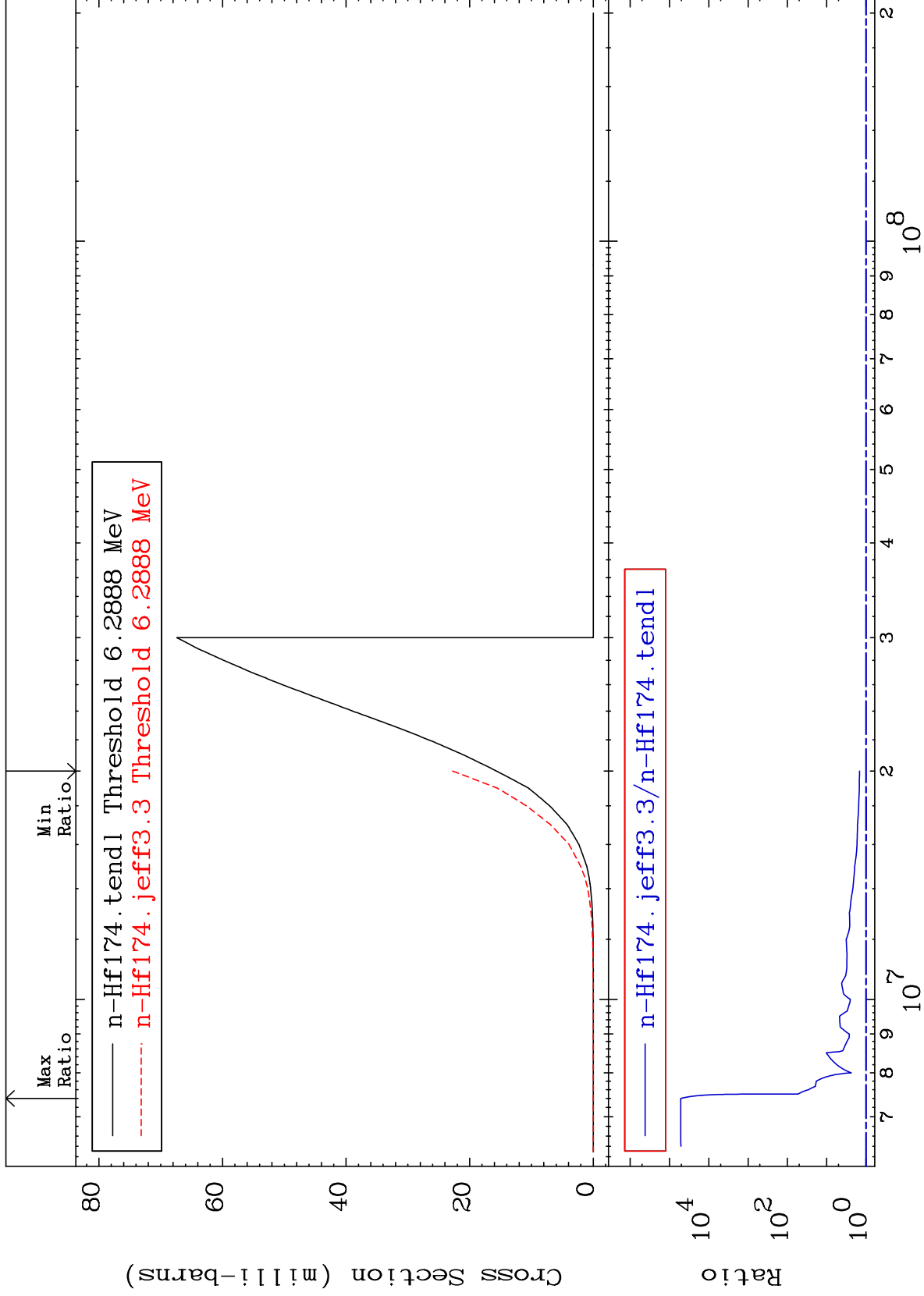
Incident Energy (eV)

<sup>72</sup>Hf-174

MAT 7225

(n,n') p  
Cross Section

72-Hf-174  
45.55 To 9999. %



8

Incident Energy (eV)

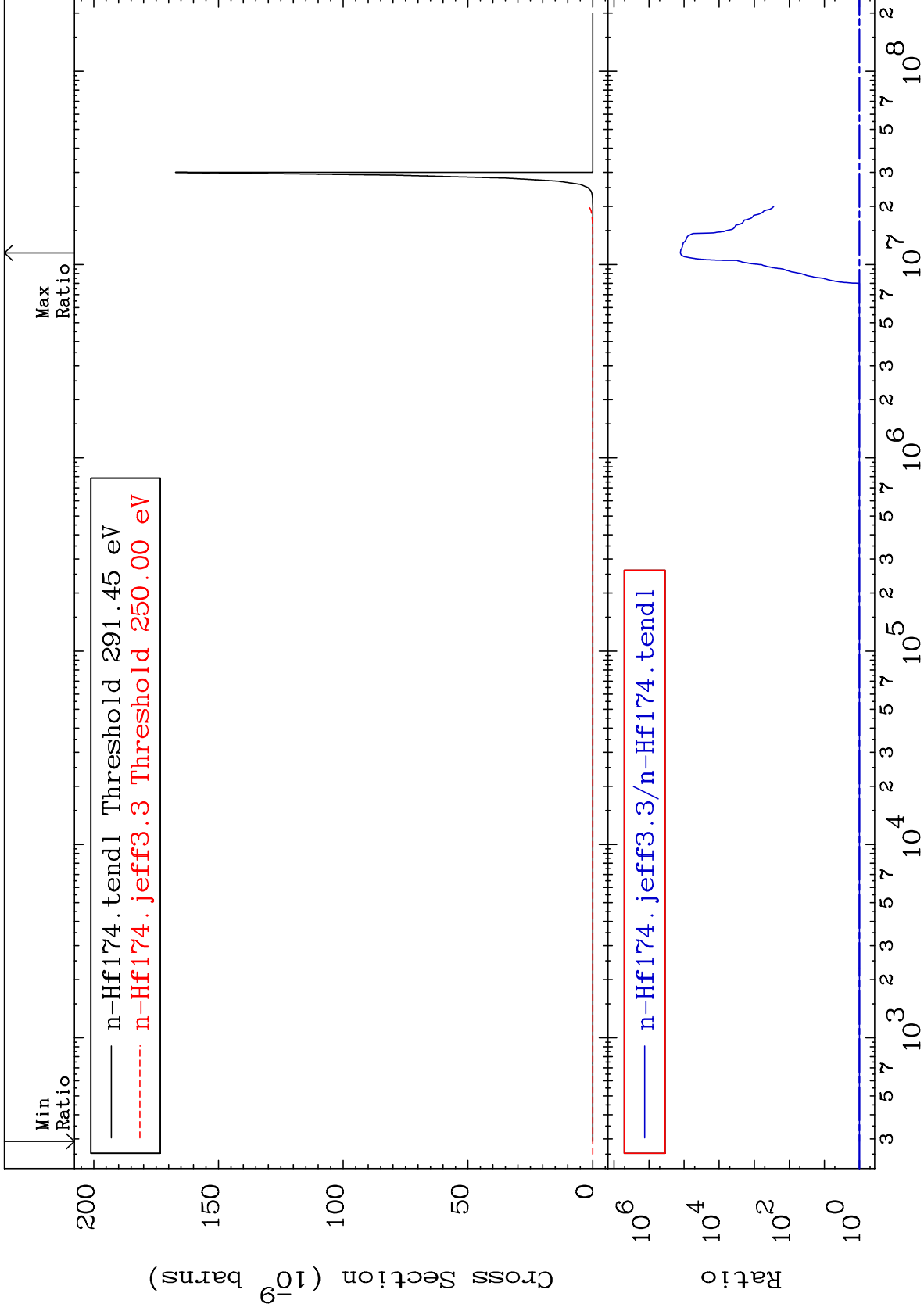
72-Hf-174



MAT 7225

(n, n') 2α  
Cross Section

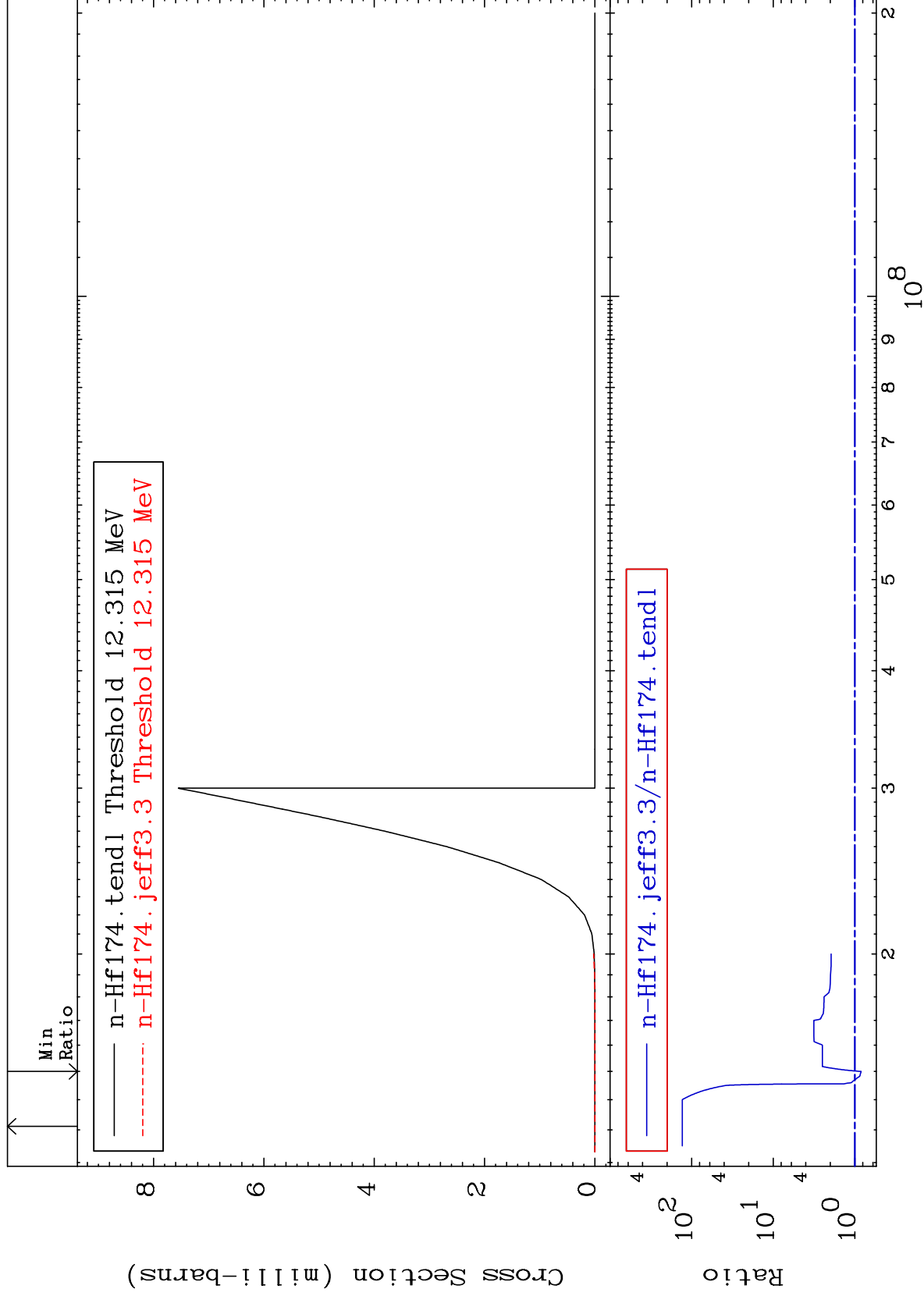
72-Hf-174  
To 9999. %



MAT 7225

(n,n') d  
Cross Section

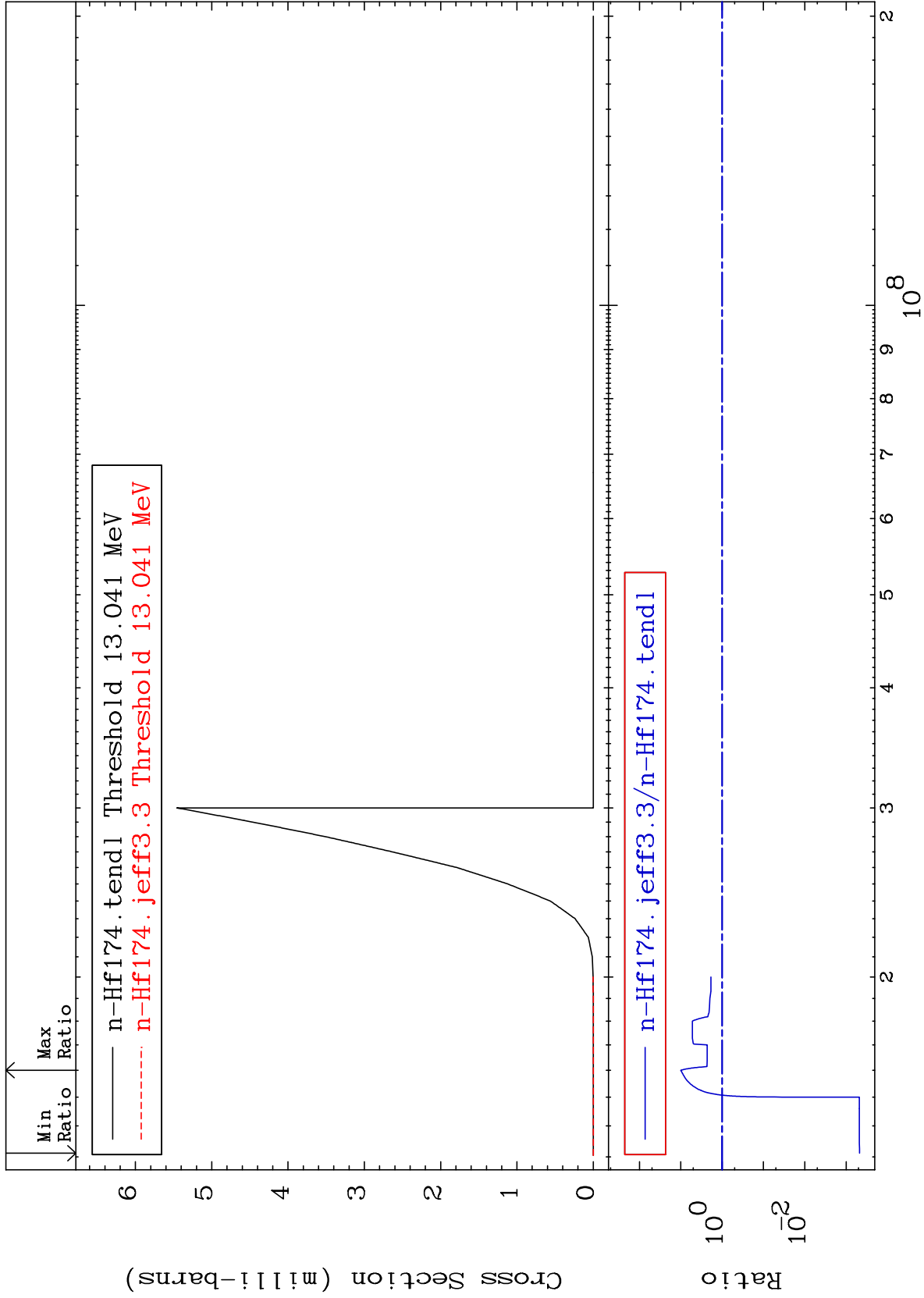
72-Hf-174  
-16.32 To 9999. %

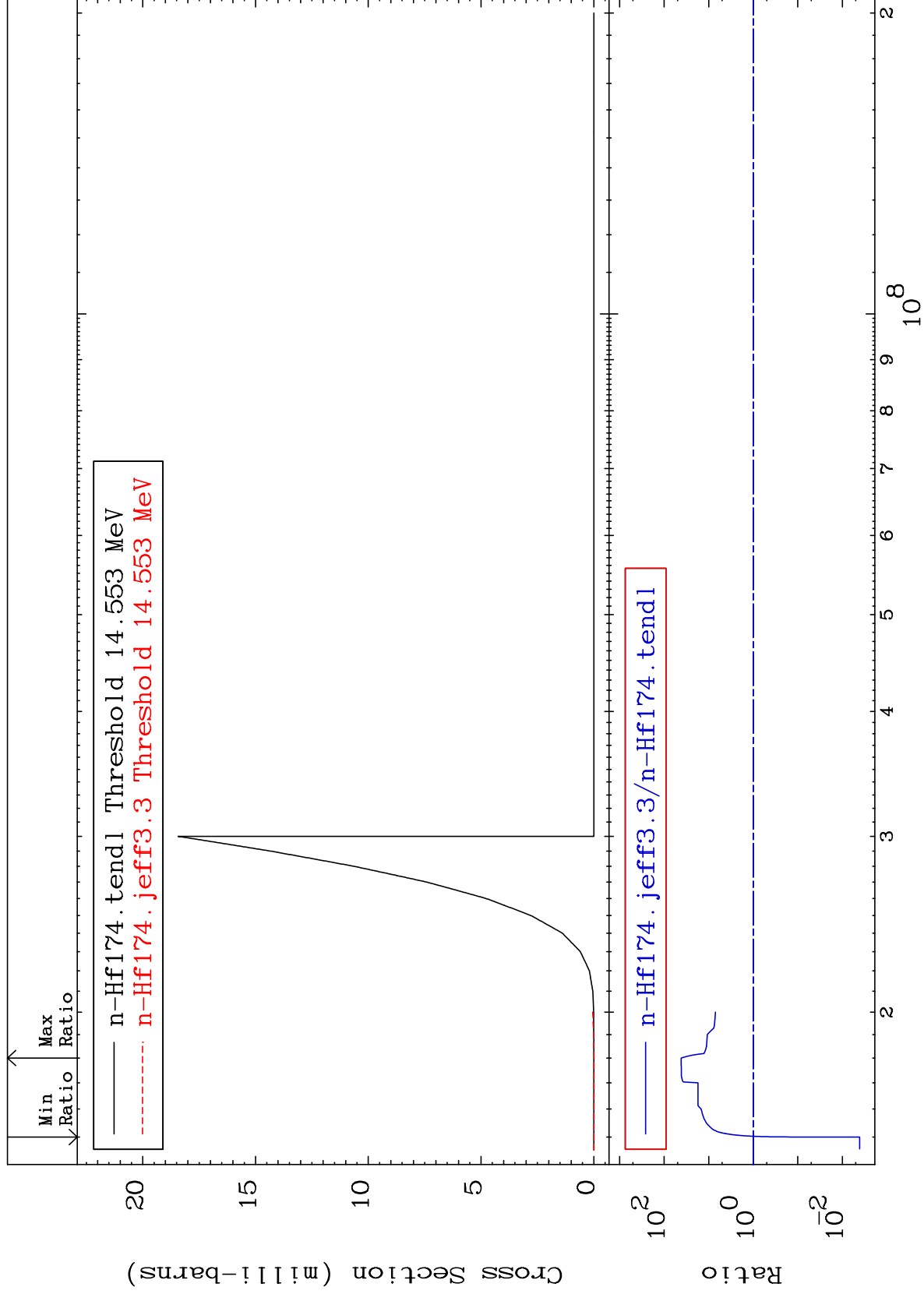


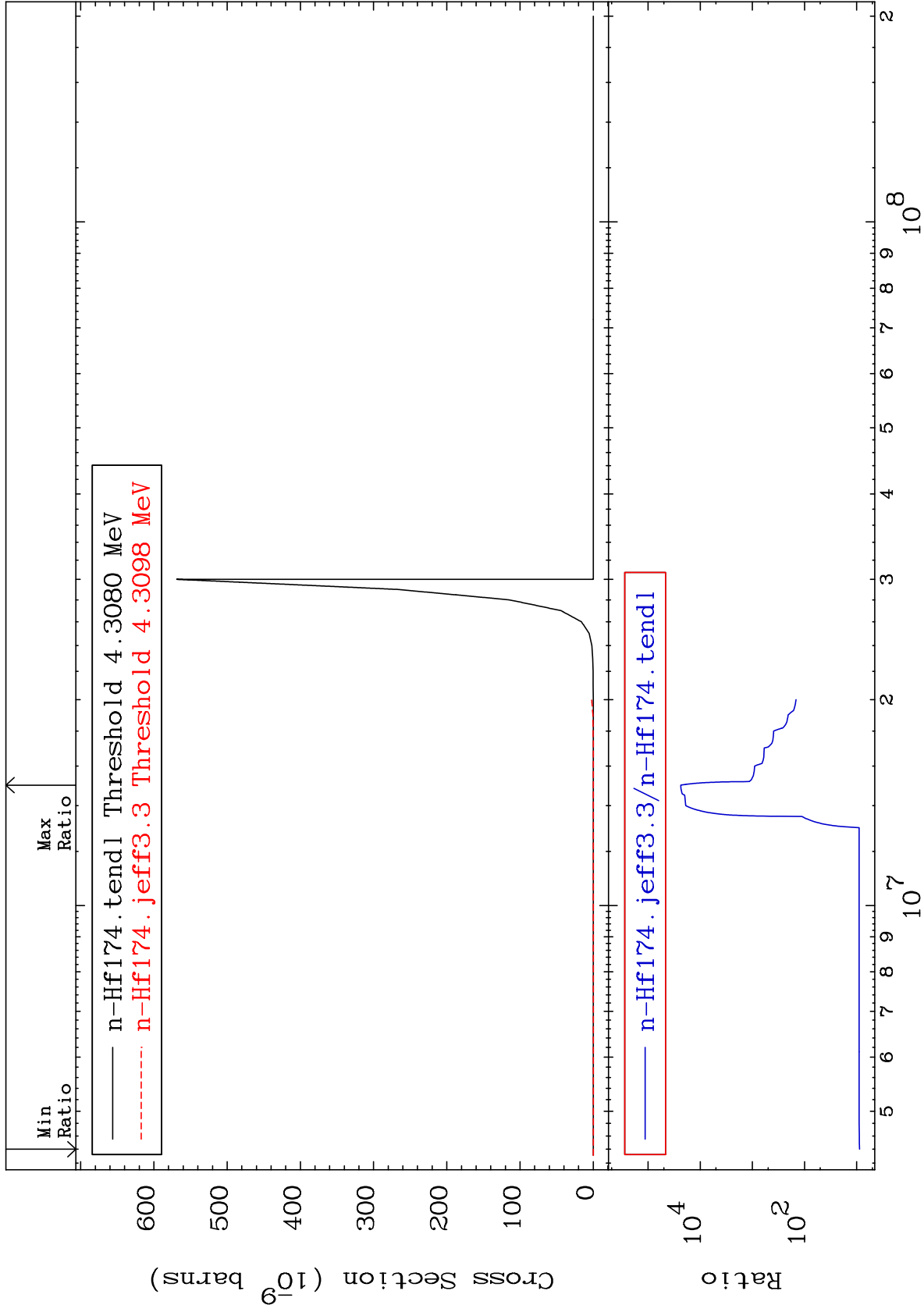
10

Incident Energy (eV)

72-Hf-174



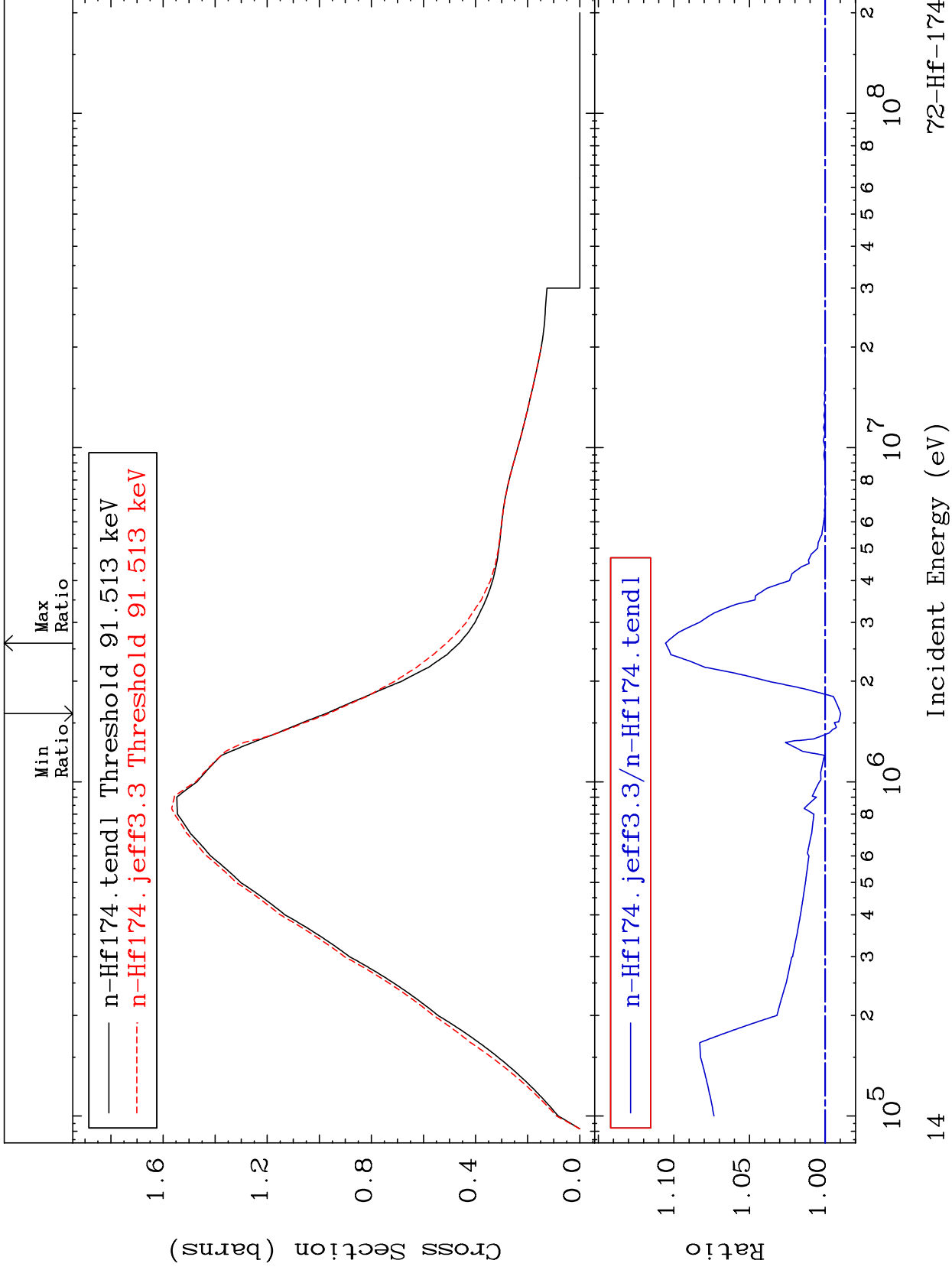




MAT 7225

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

72-Hf-174  
-1.027 To 10.56 %



14

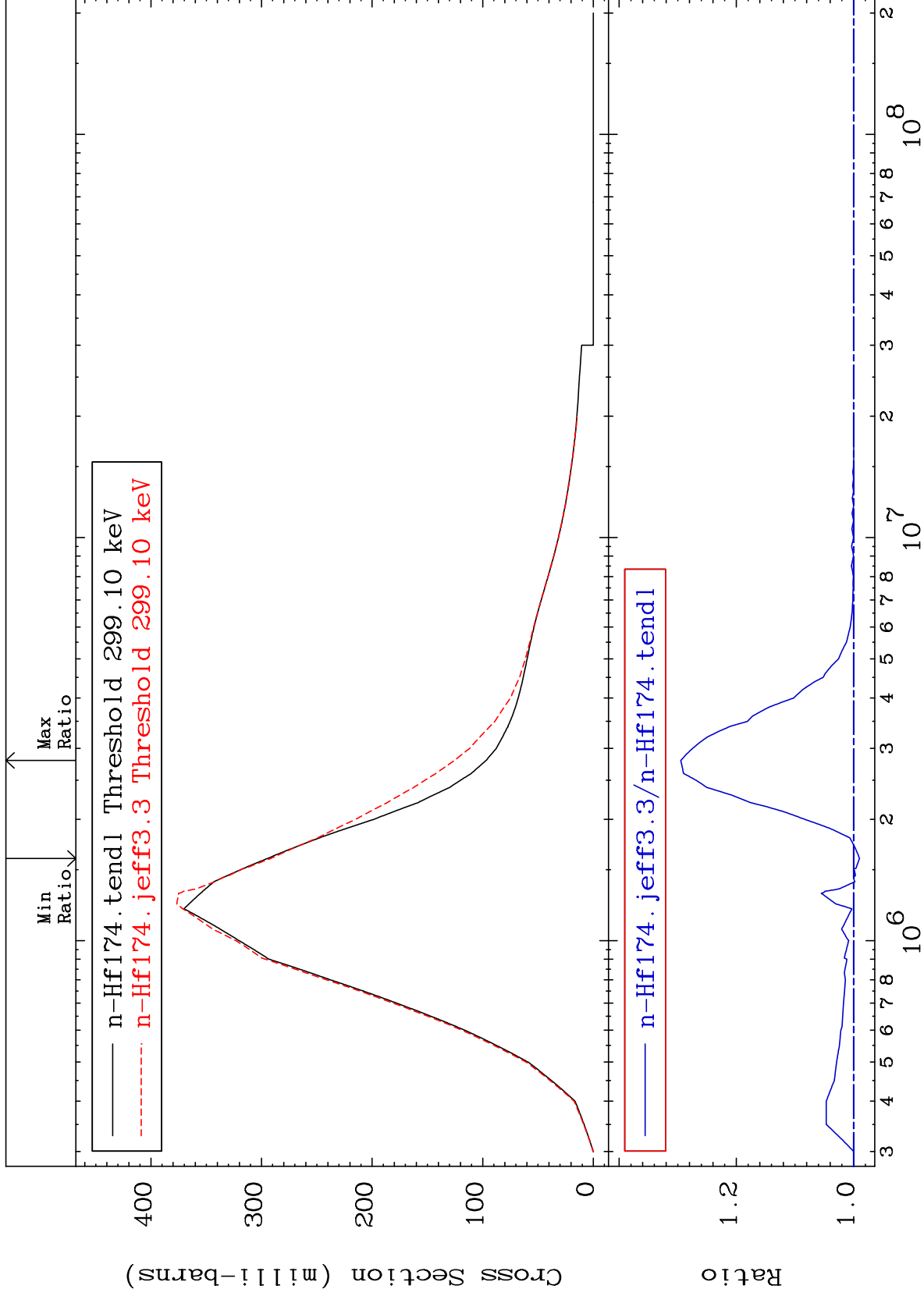
Incident Energy (eV)

72-Hf-174

MAT 7225

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

72-Hf-174  
-1.008 To 29.49 %



15

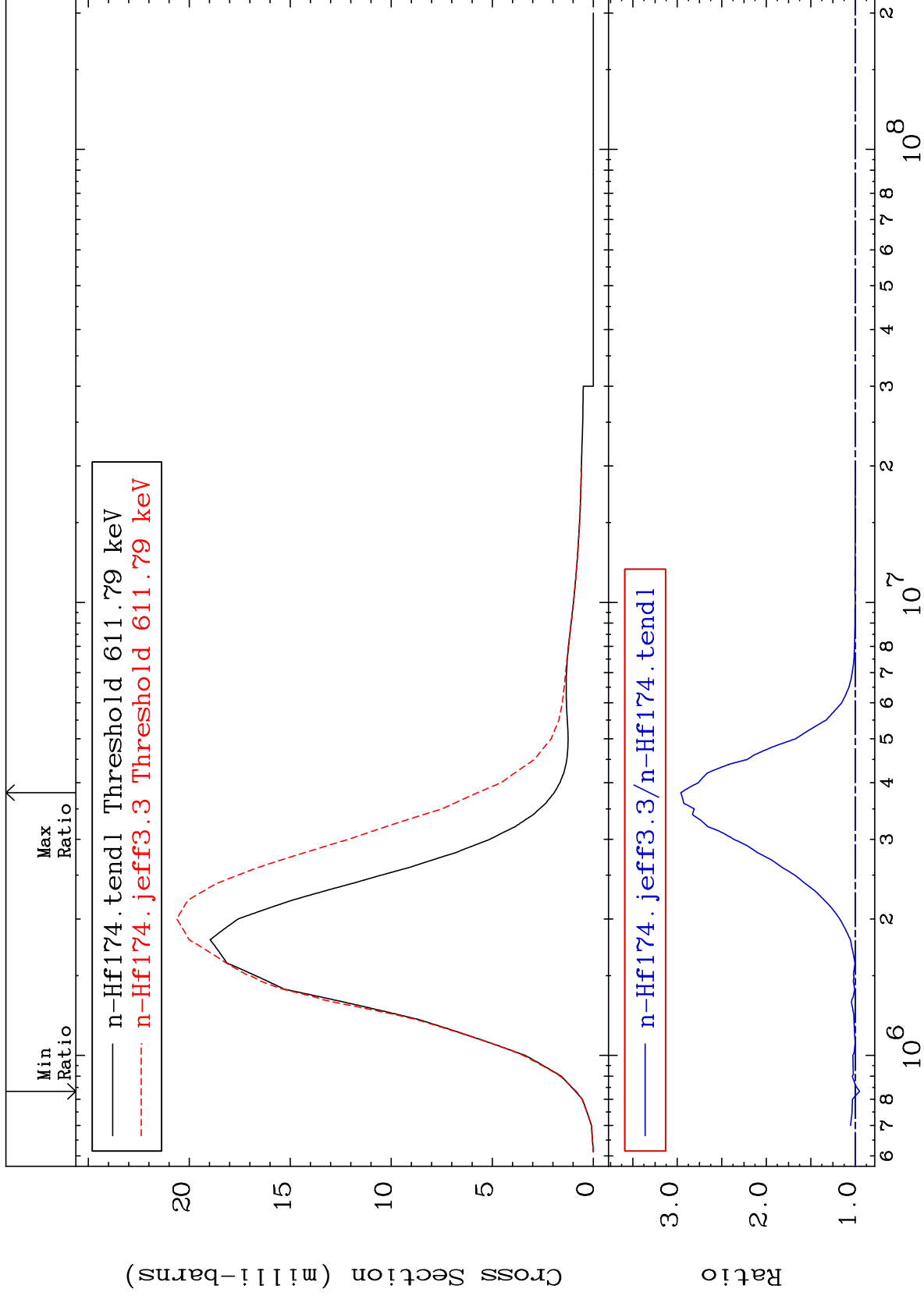
Incident Energy (eV)

72-Hf-174

MAT 7225

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

72-Hf-174  
-4.870 To 196.1 %



16

Incident Energy (eV)

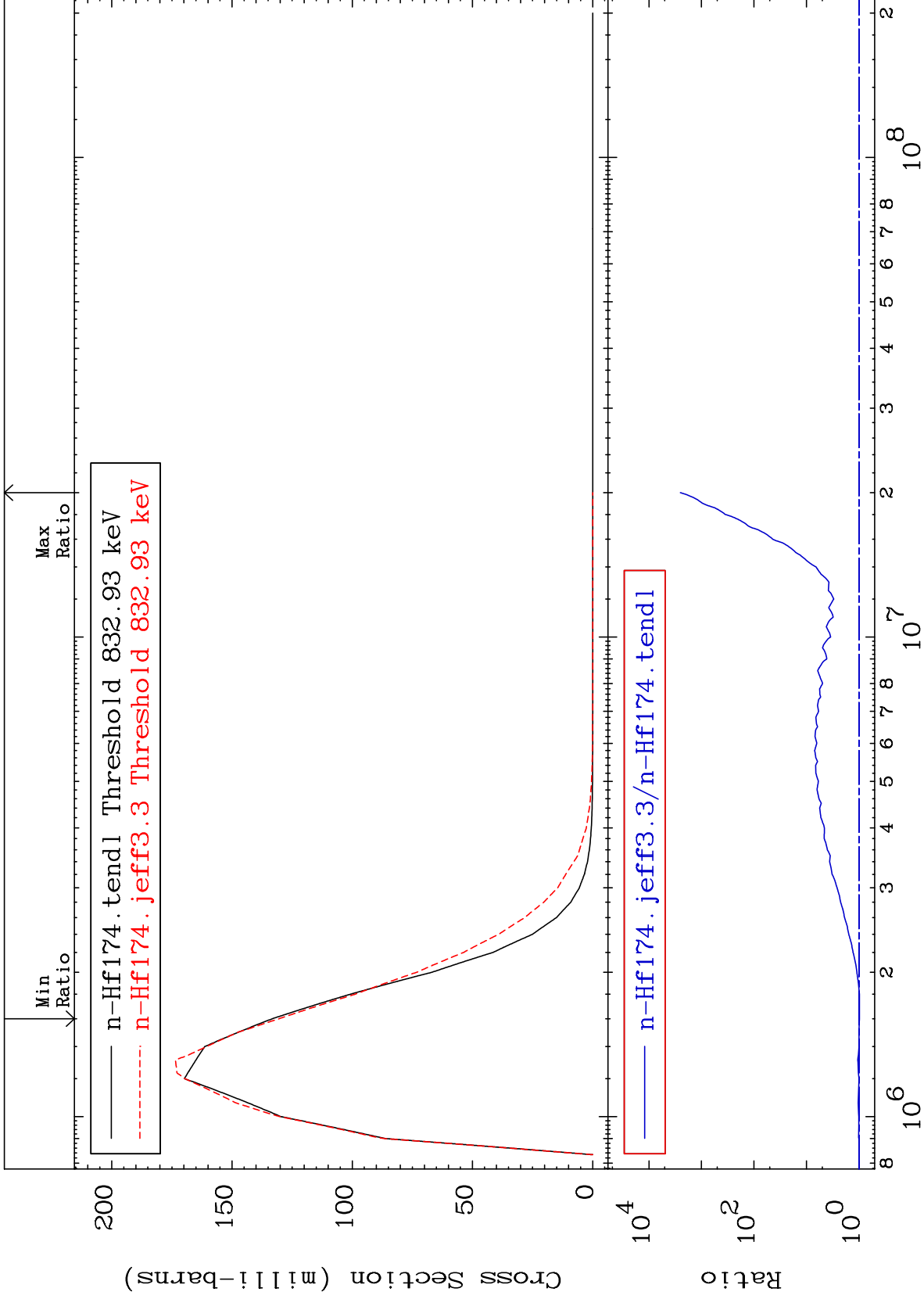
72-Hf-174



MAT 7225

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

72-Hf-174  
-2.104 To 9999. %



17

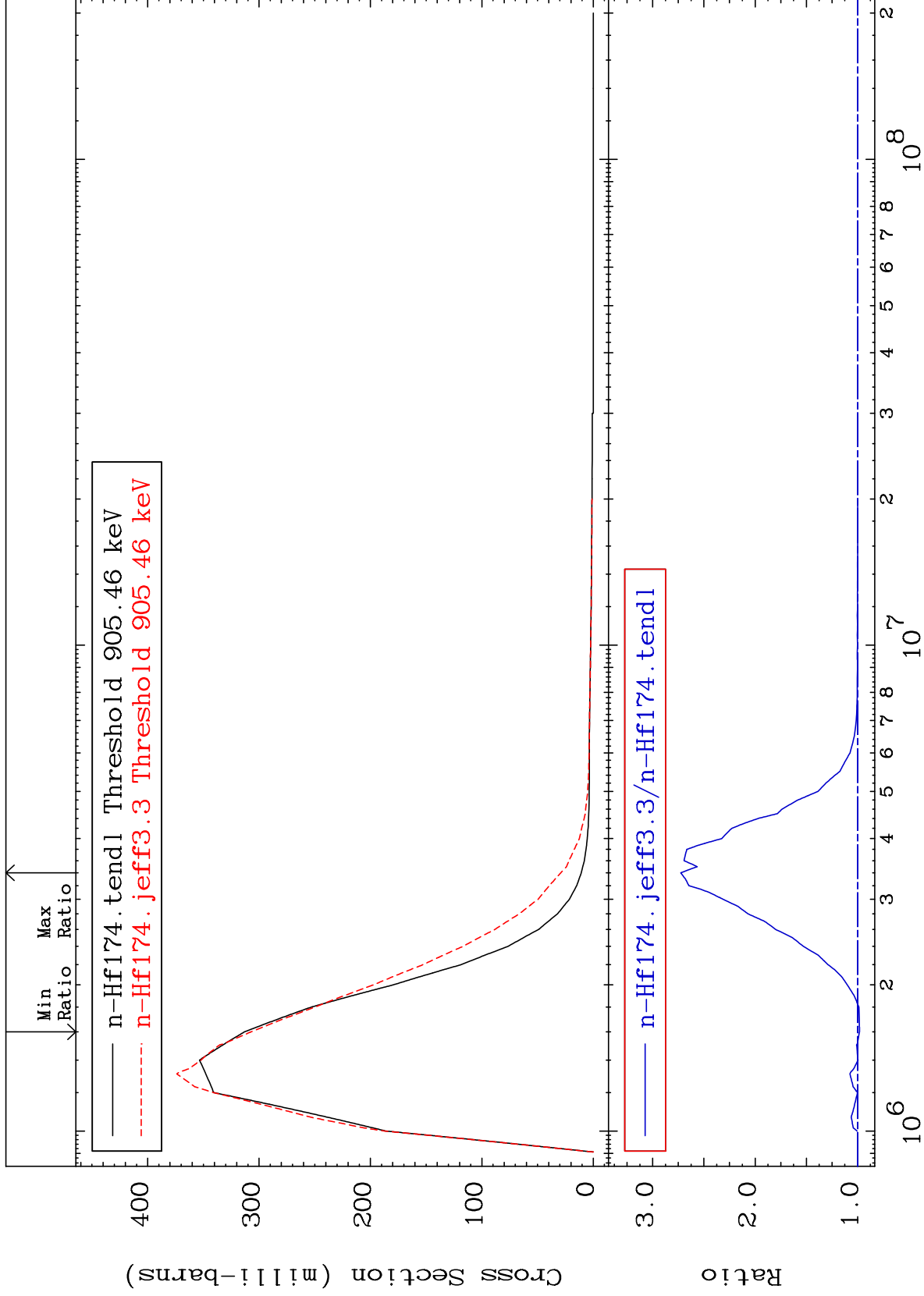
Incident Energy (eV)

72-Hf-174

MAT 7225

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

72-Hf-174  
-1.901 To 172.6 %



18

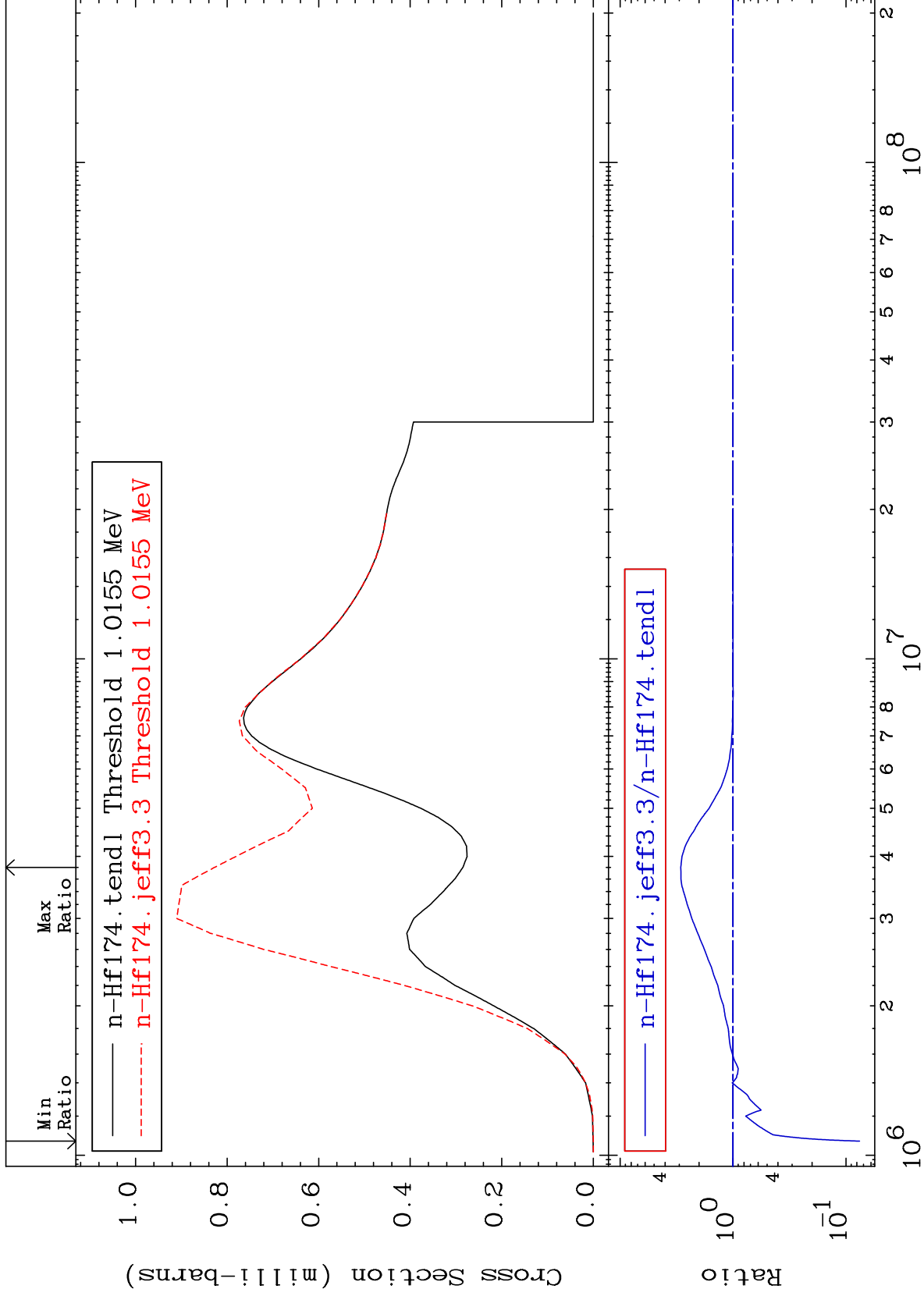
Incident Energy (eV)

72-Hf-174

MAT 7225

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

72-Hf-174  
-92.42 To 190.5 %



19

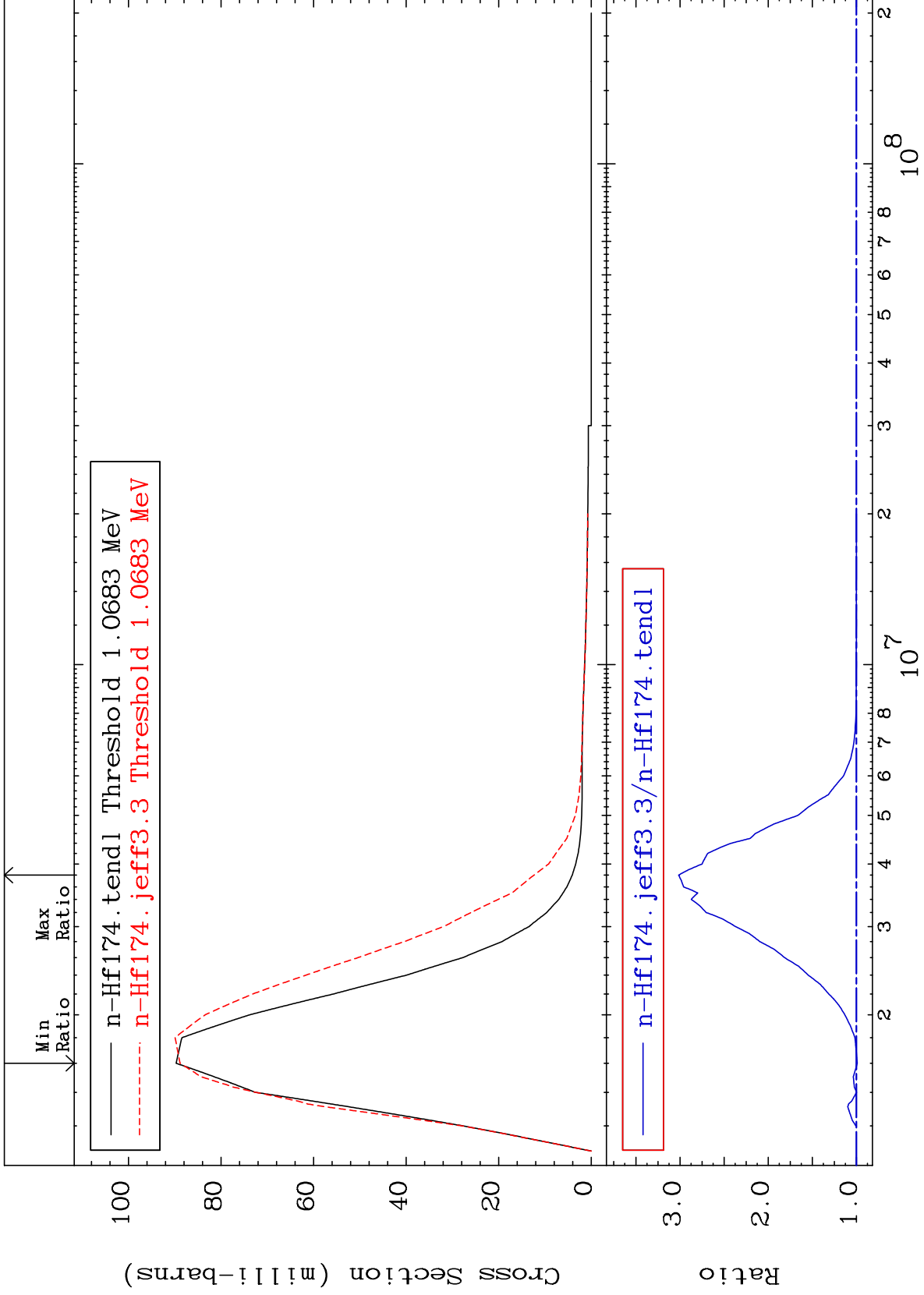
Incident Energy (eV)

72-Hf-174

MAT 7225

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

72-Hf-174  
-0.933 To 201.5 %



20

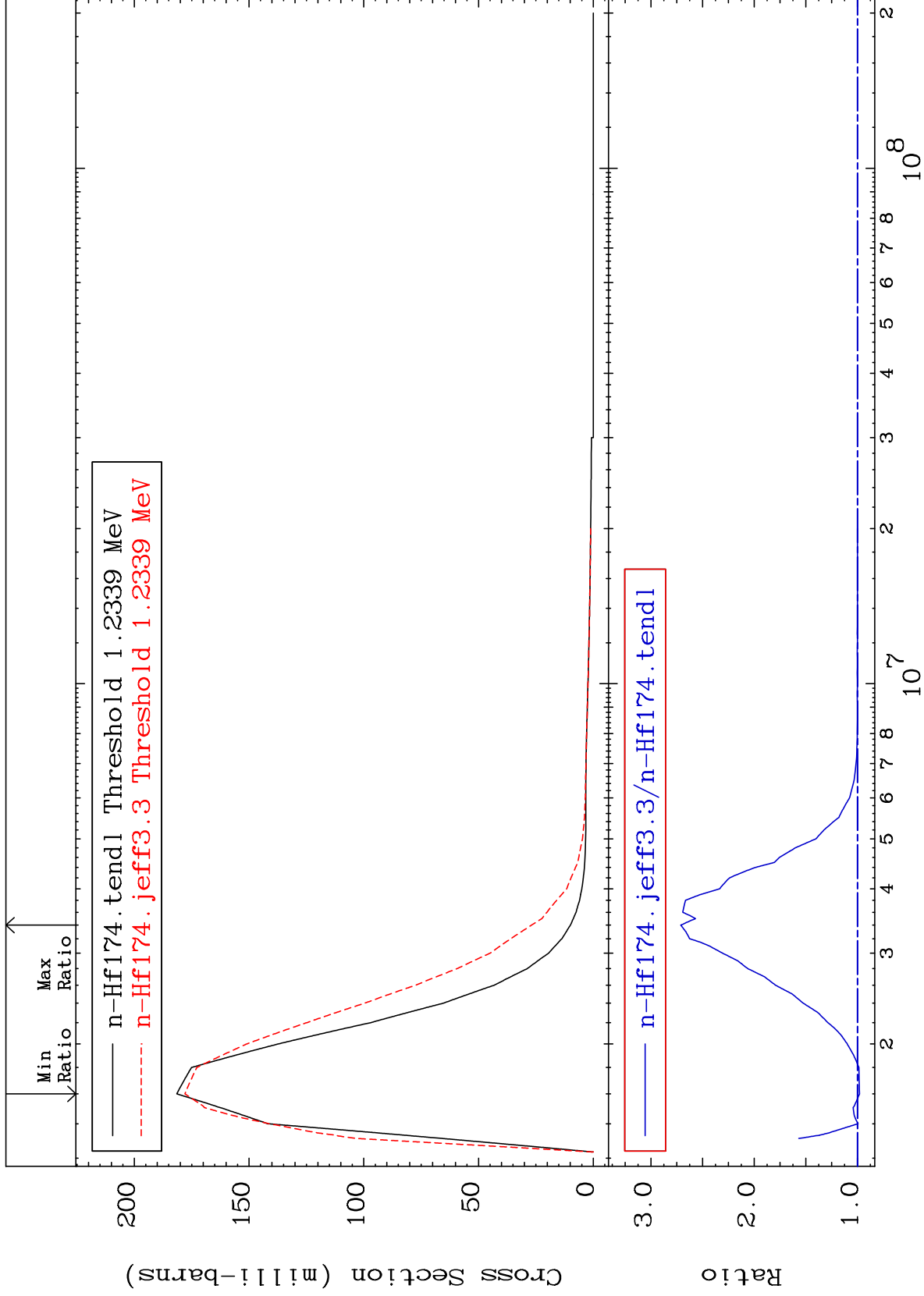
Incident Energy (eV)

72-Hf-174

MAT 7225

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

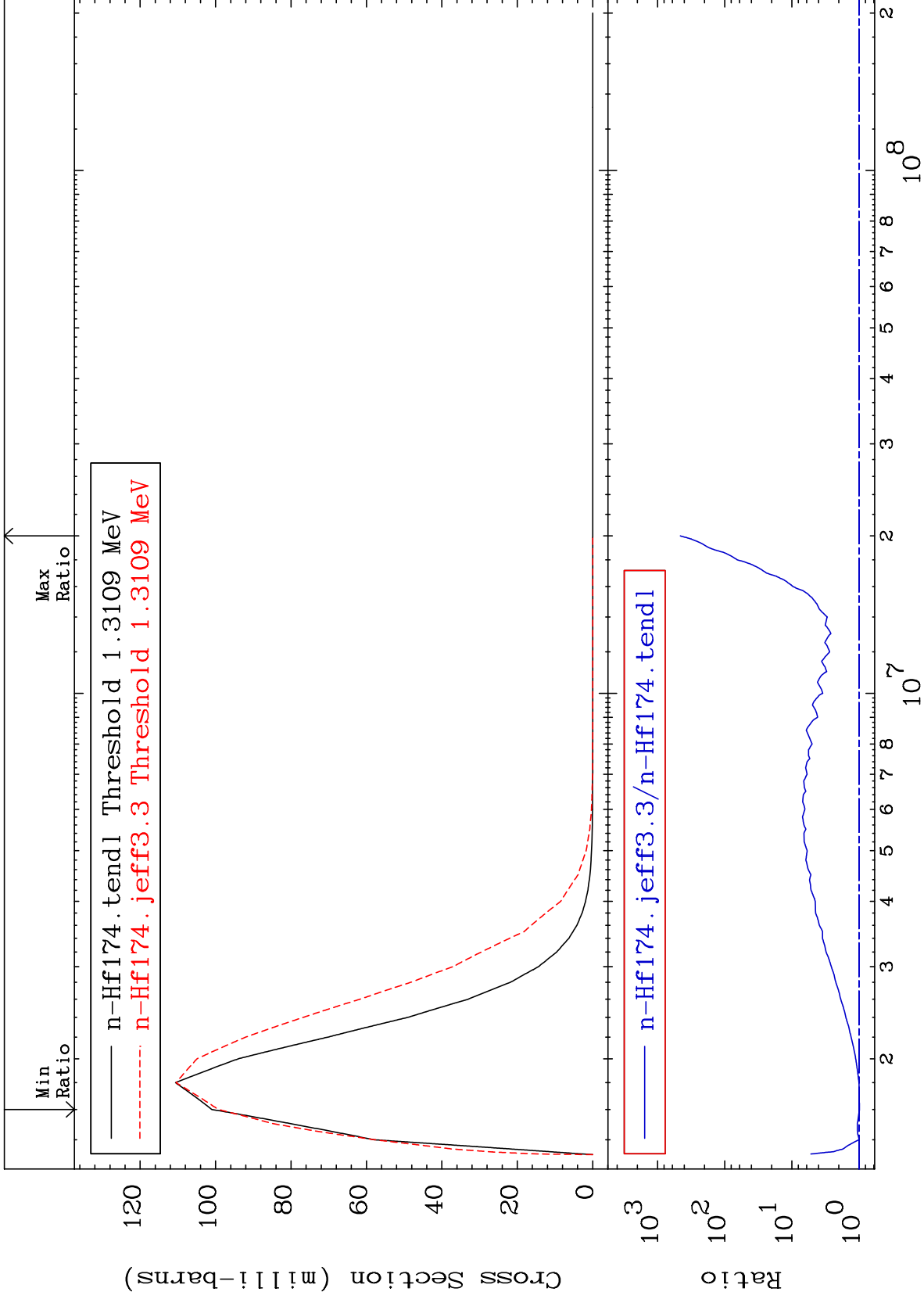
72-Hf-174  
-1.939 To 171.1 %

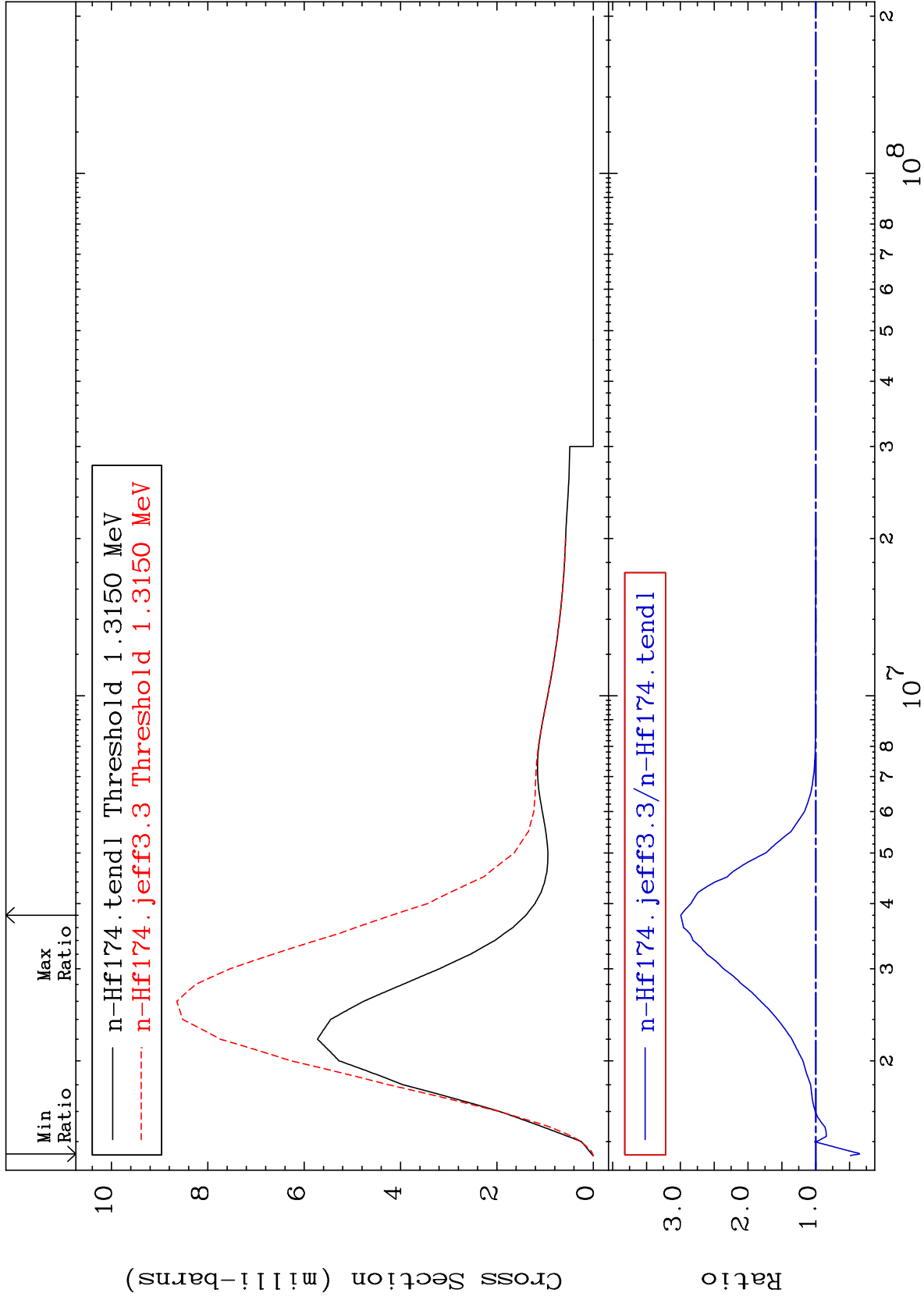


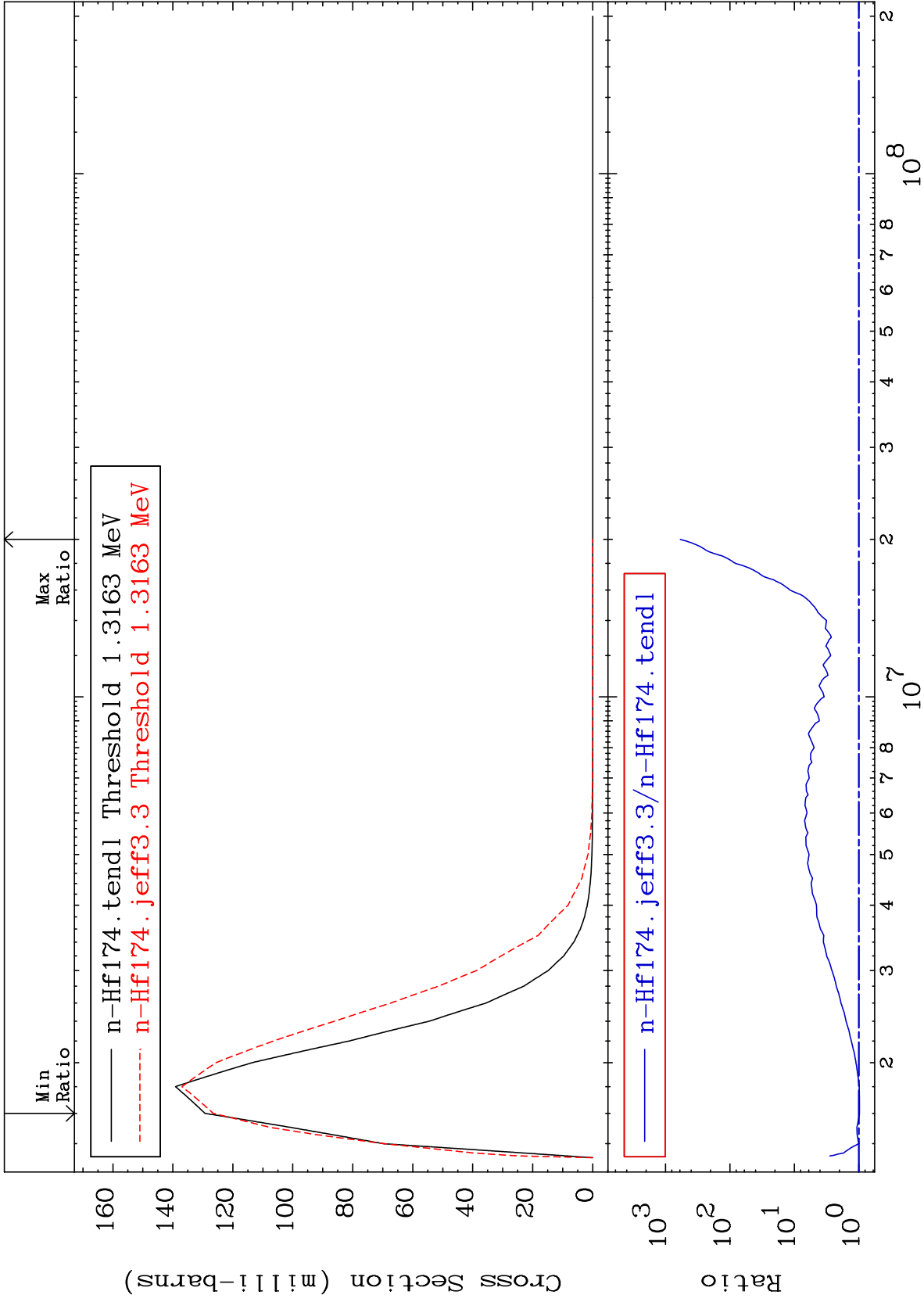
MAT 7225

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

72-Hf-174  
-1.668 To 9999. %





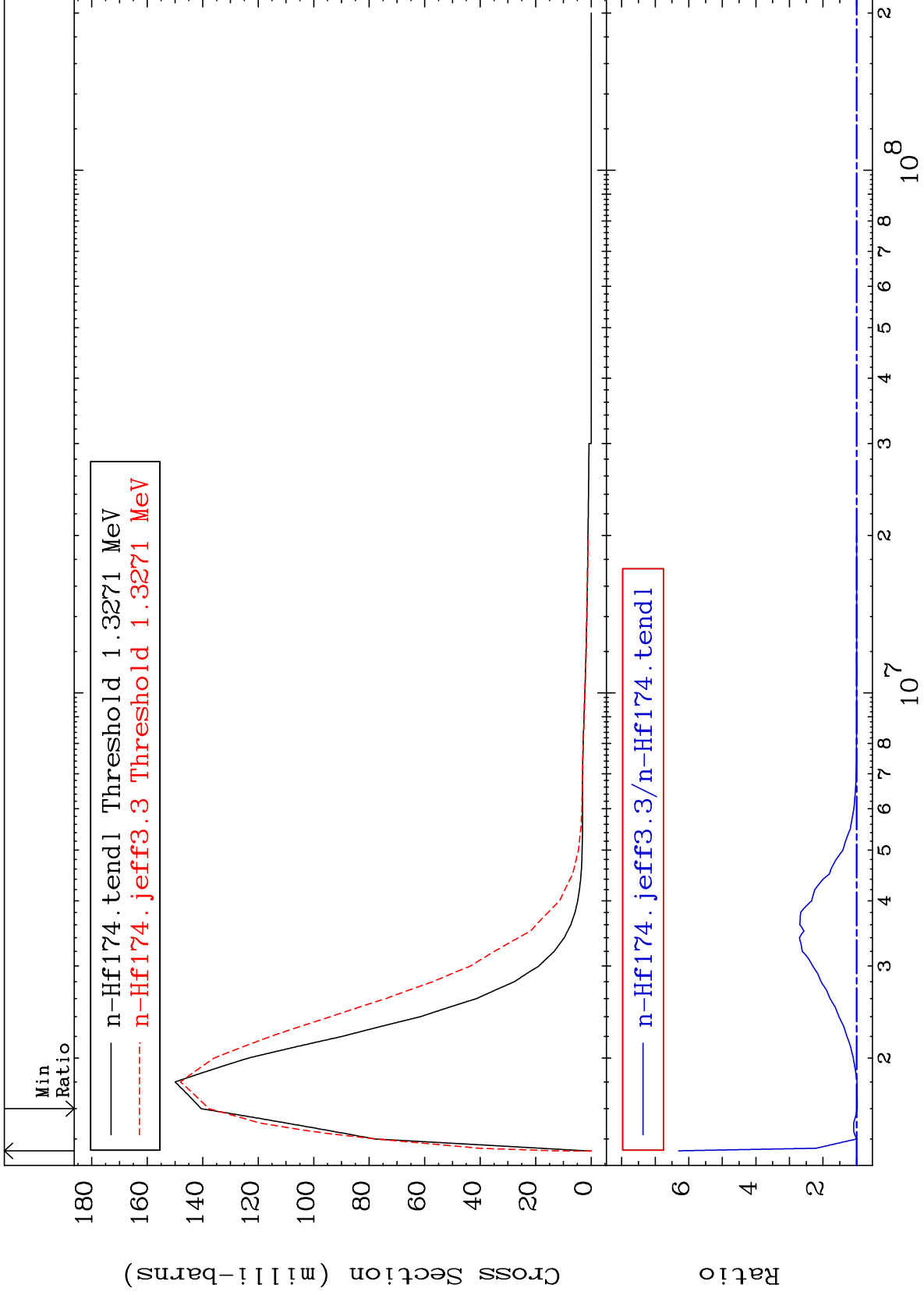


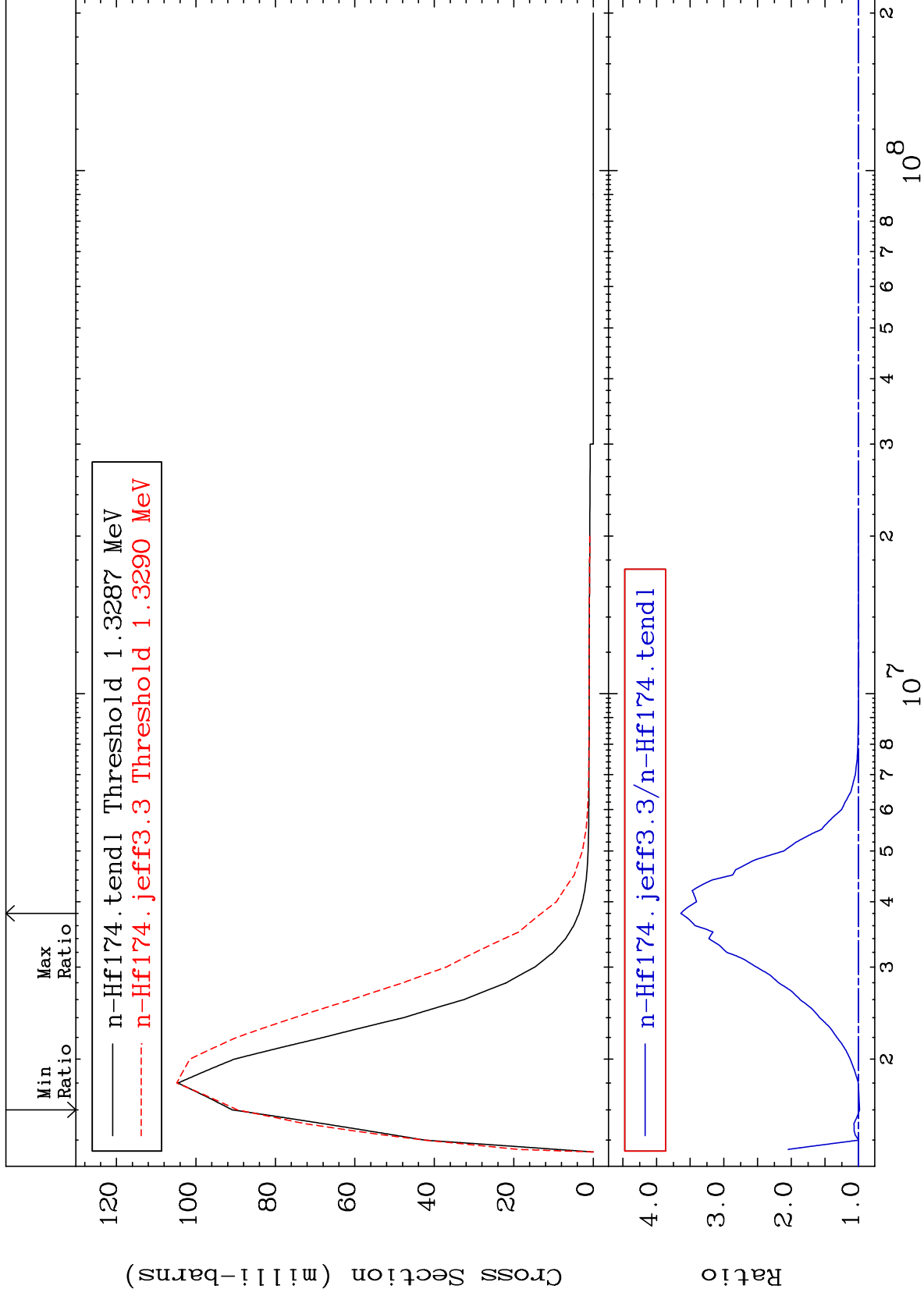


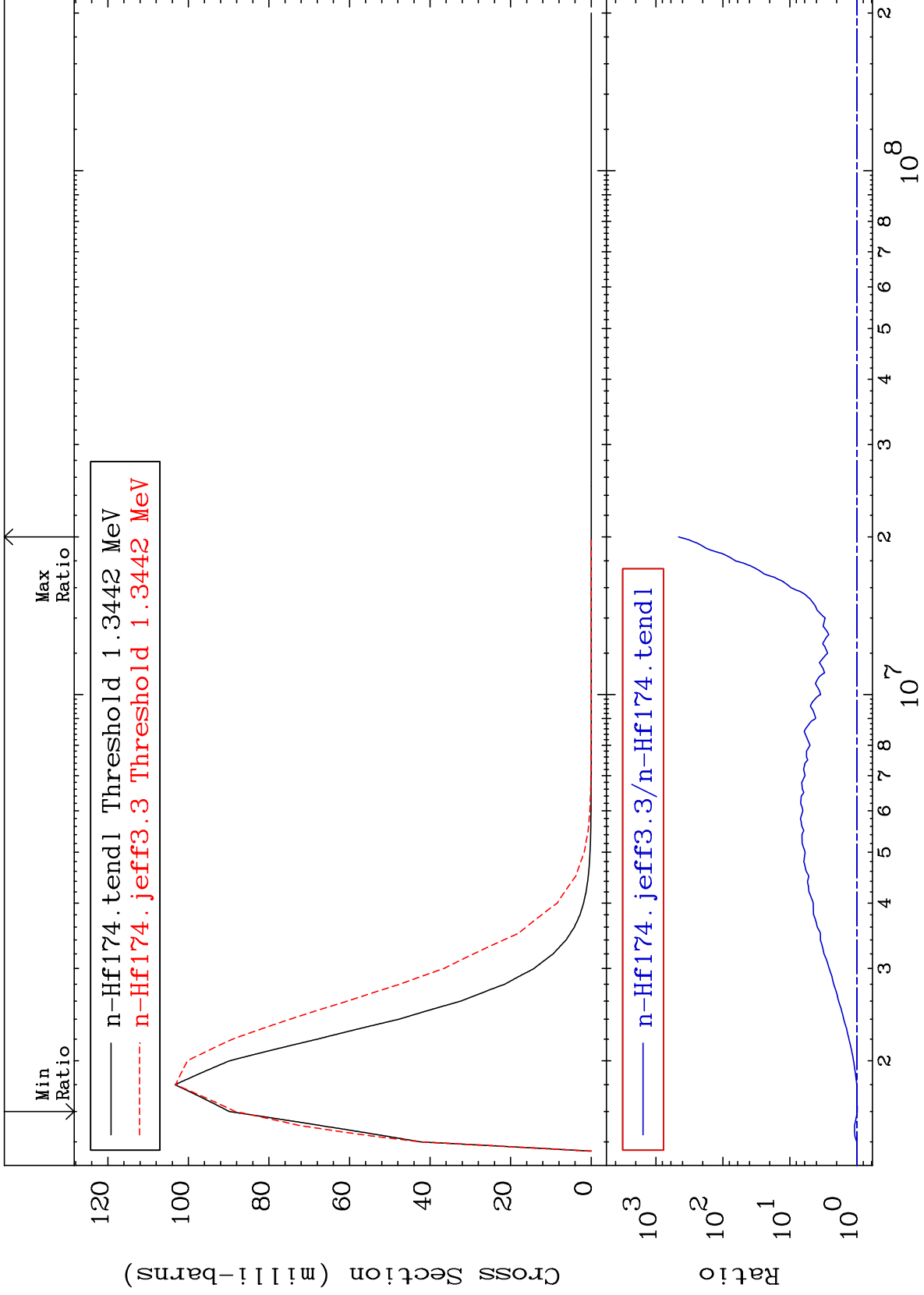
MAT 7225

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

72-Hf-174  
-1.948 To 530.2 %



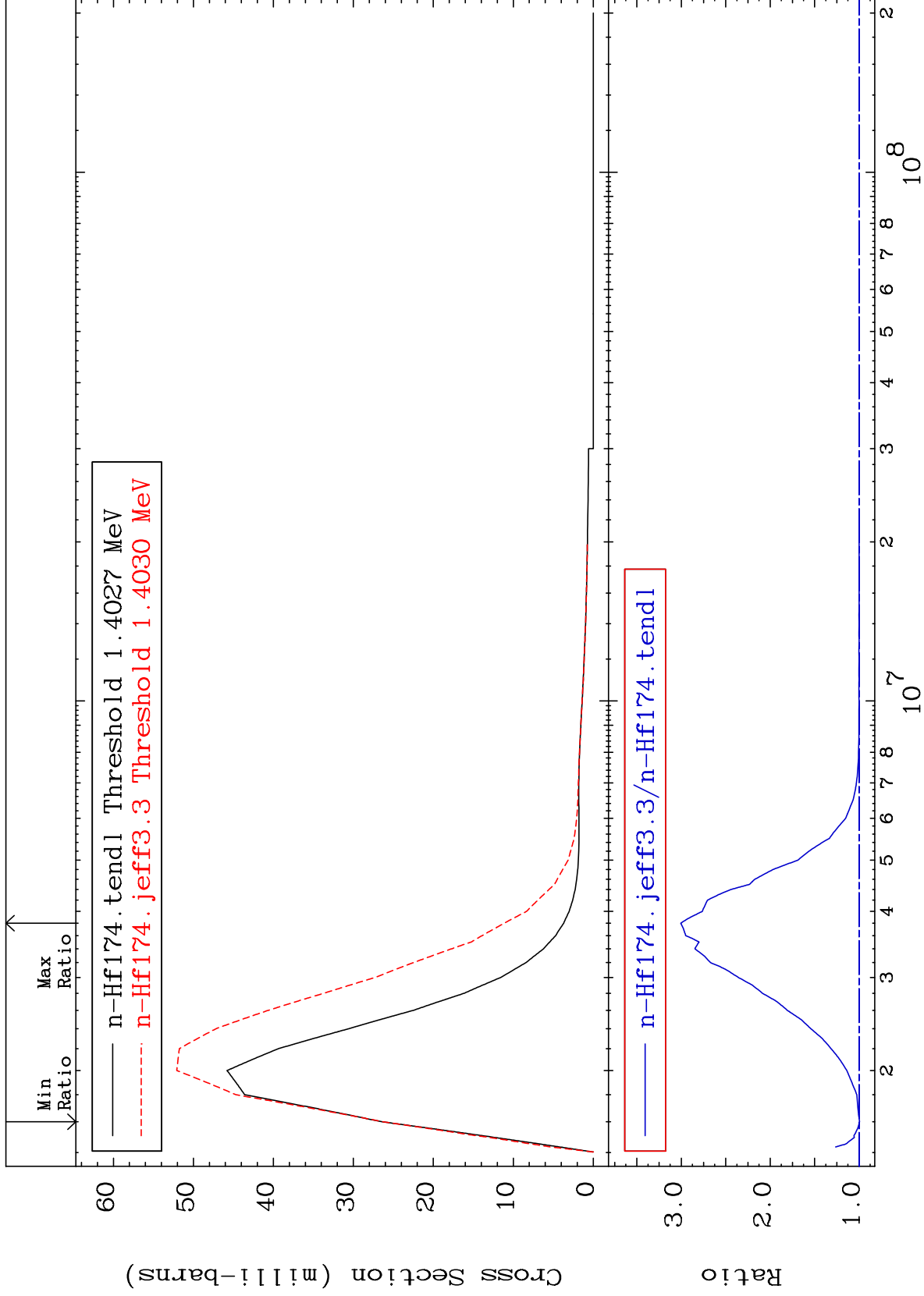




MAT 7225

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

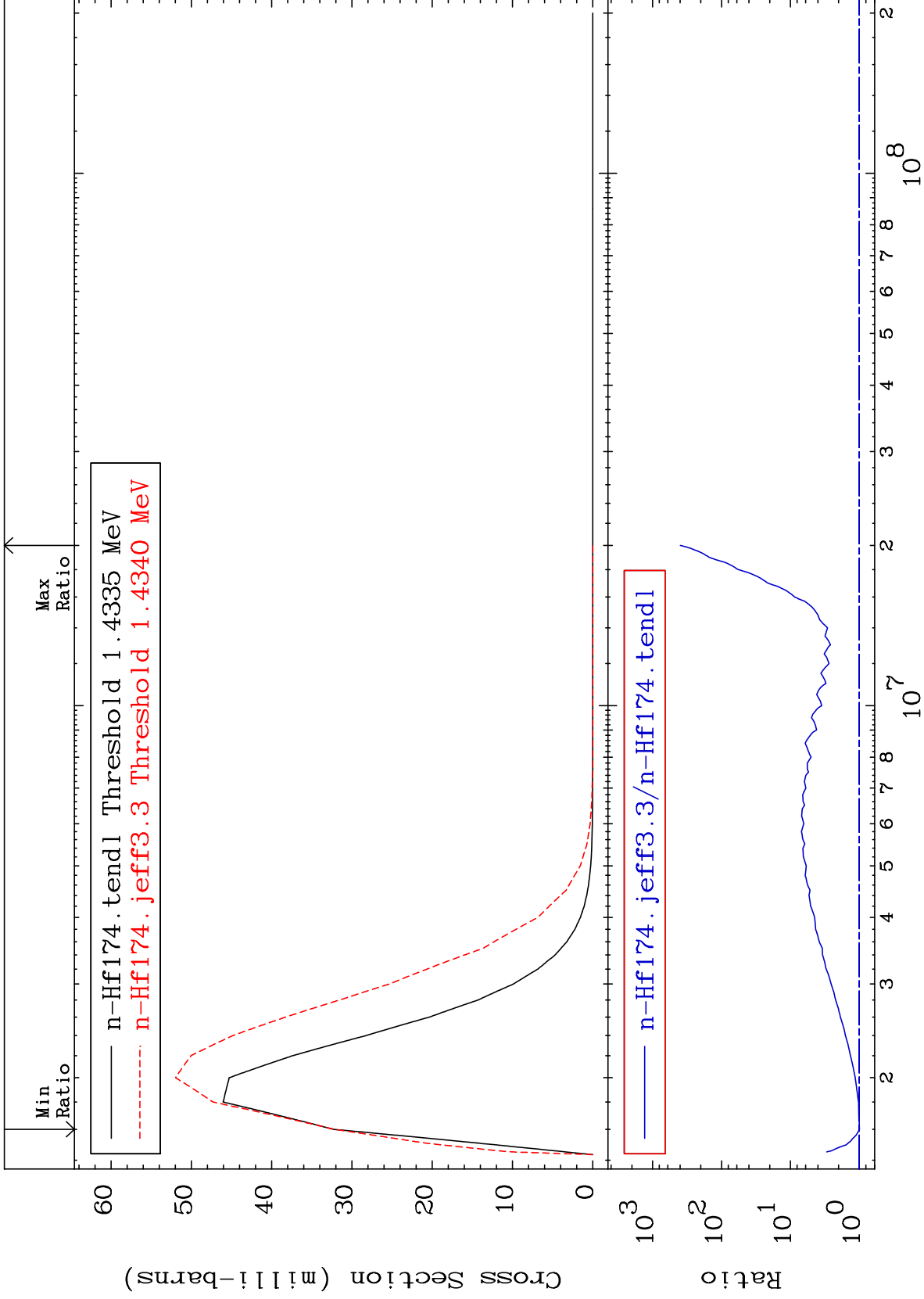
72-Hf-174  
-0.516 To 200.6 %



MAT 7225

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

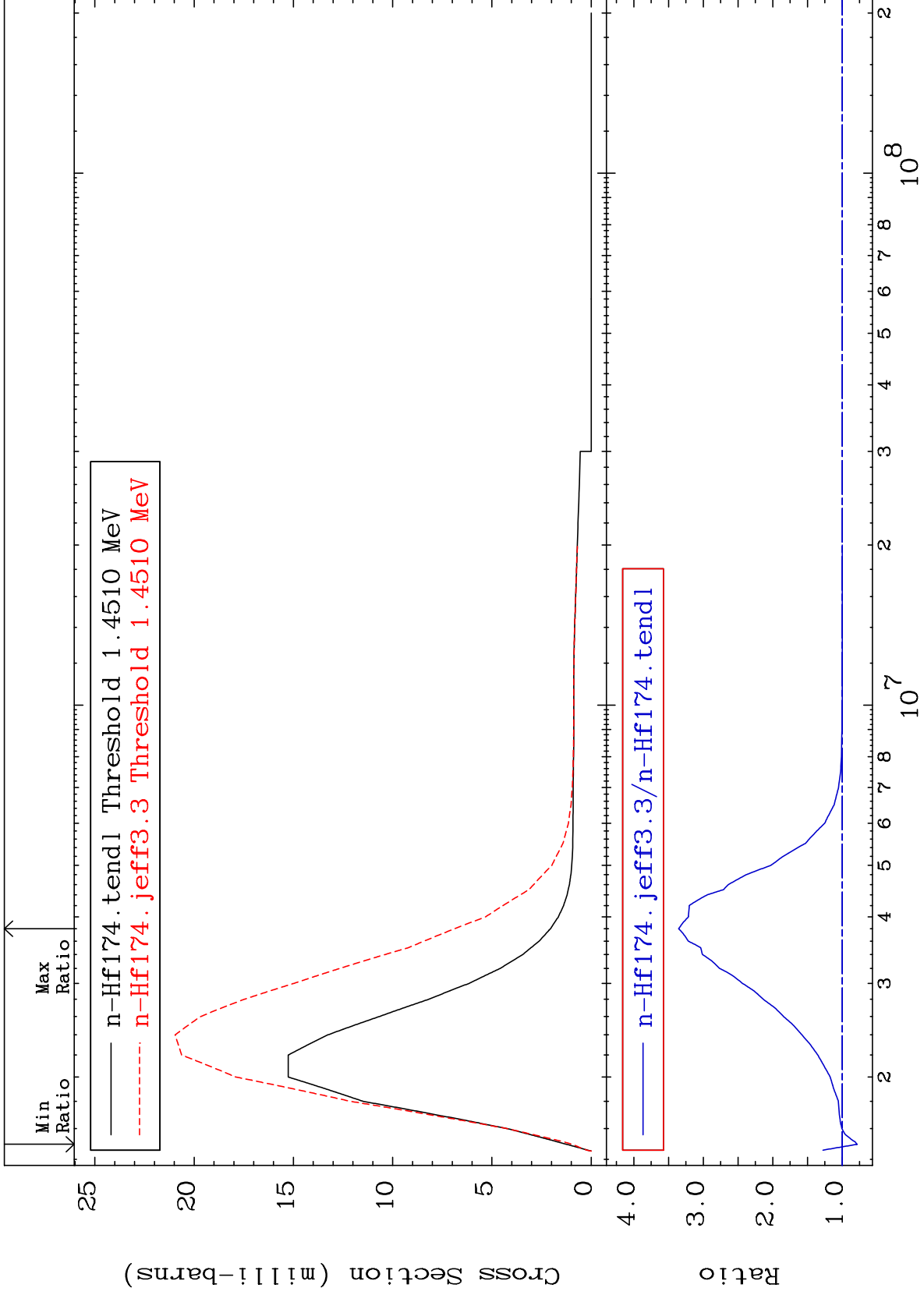
72-Hf-174  
-0.394 To 9999. %

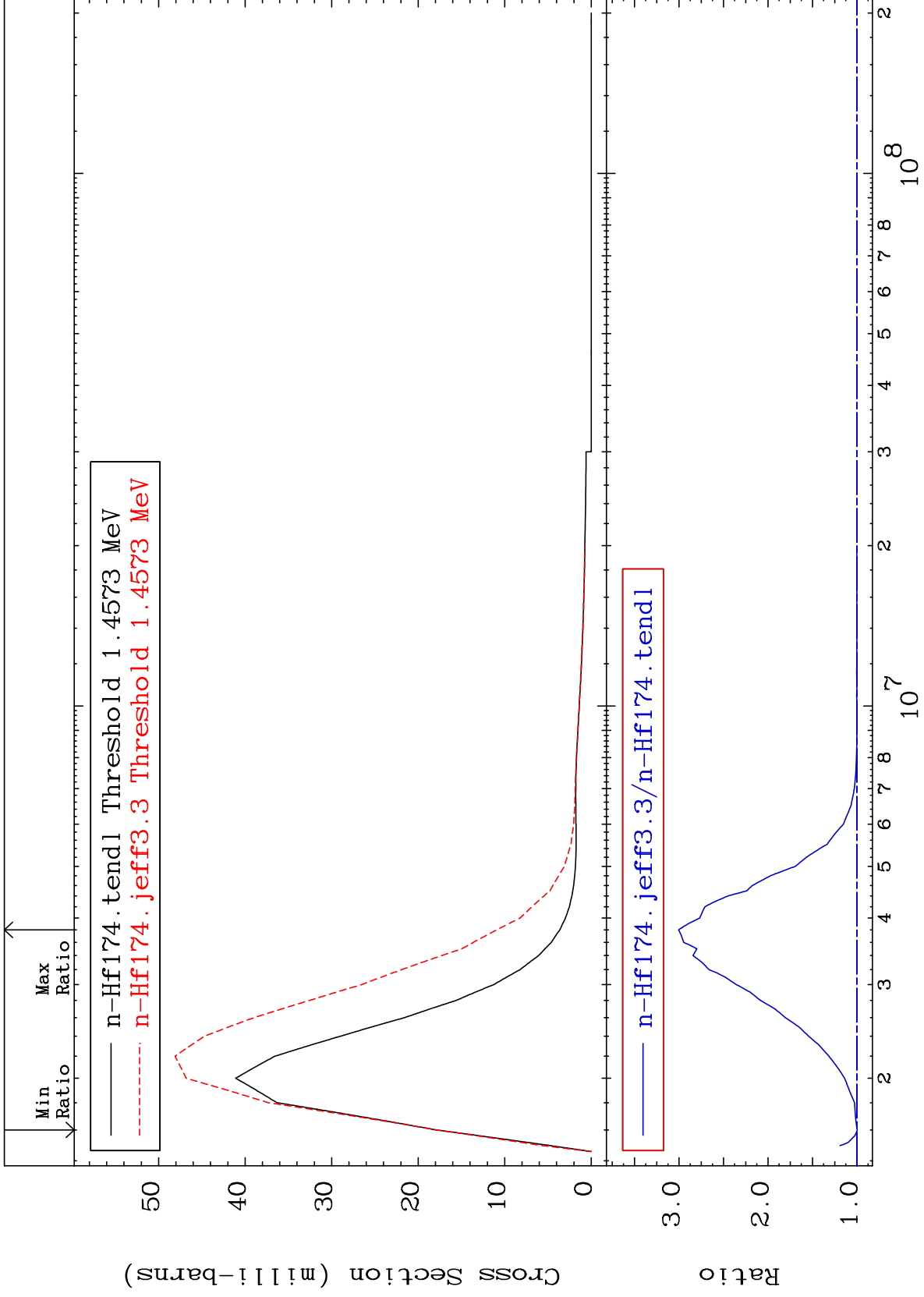


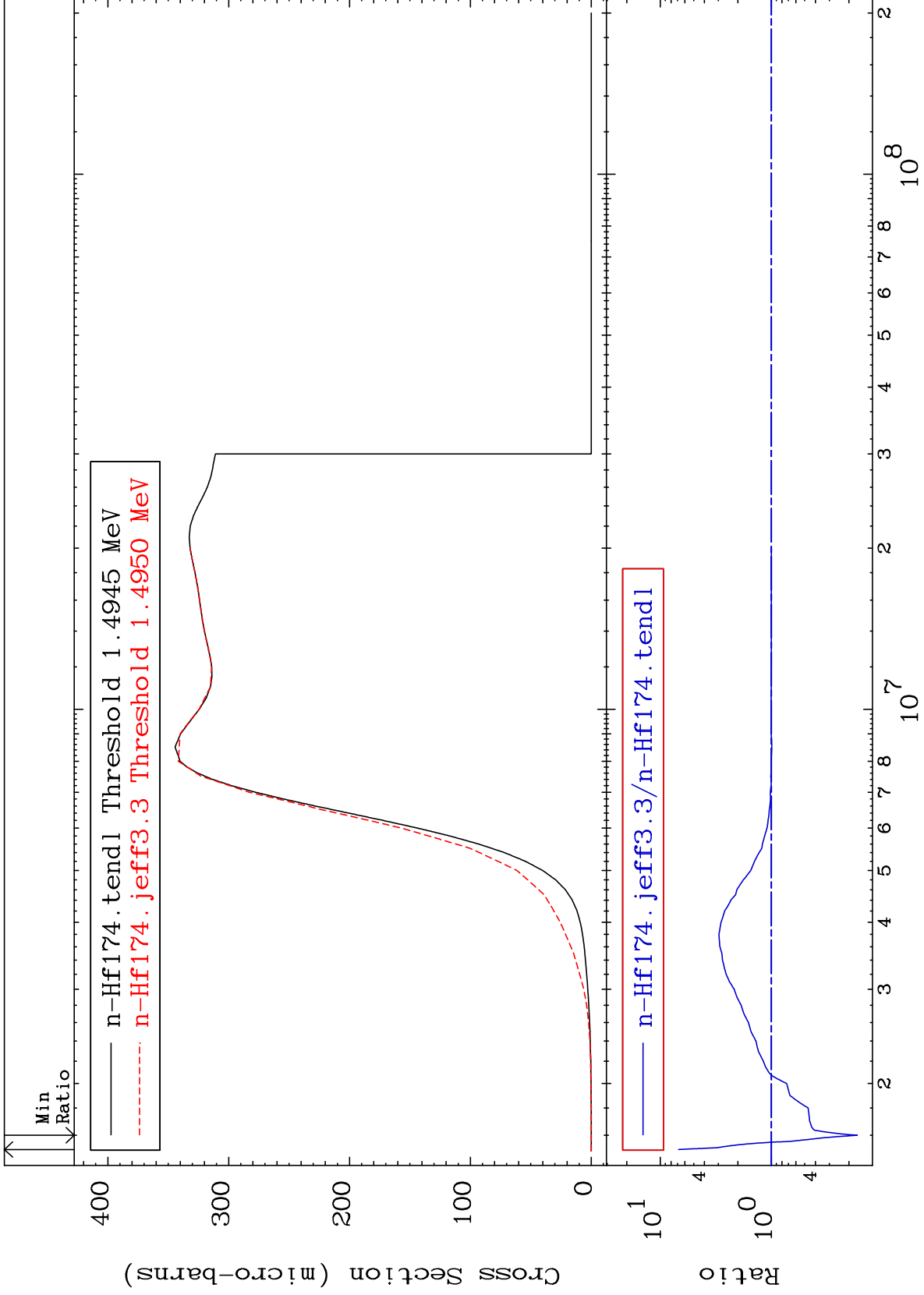
MAT 7225

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

72-Hf-174  
-21.69 To 235.5 %





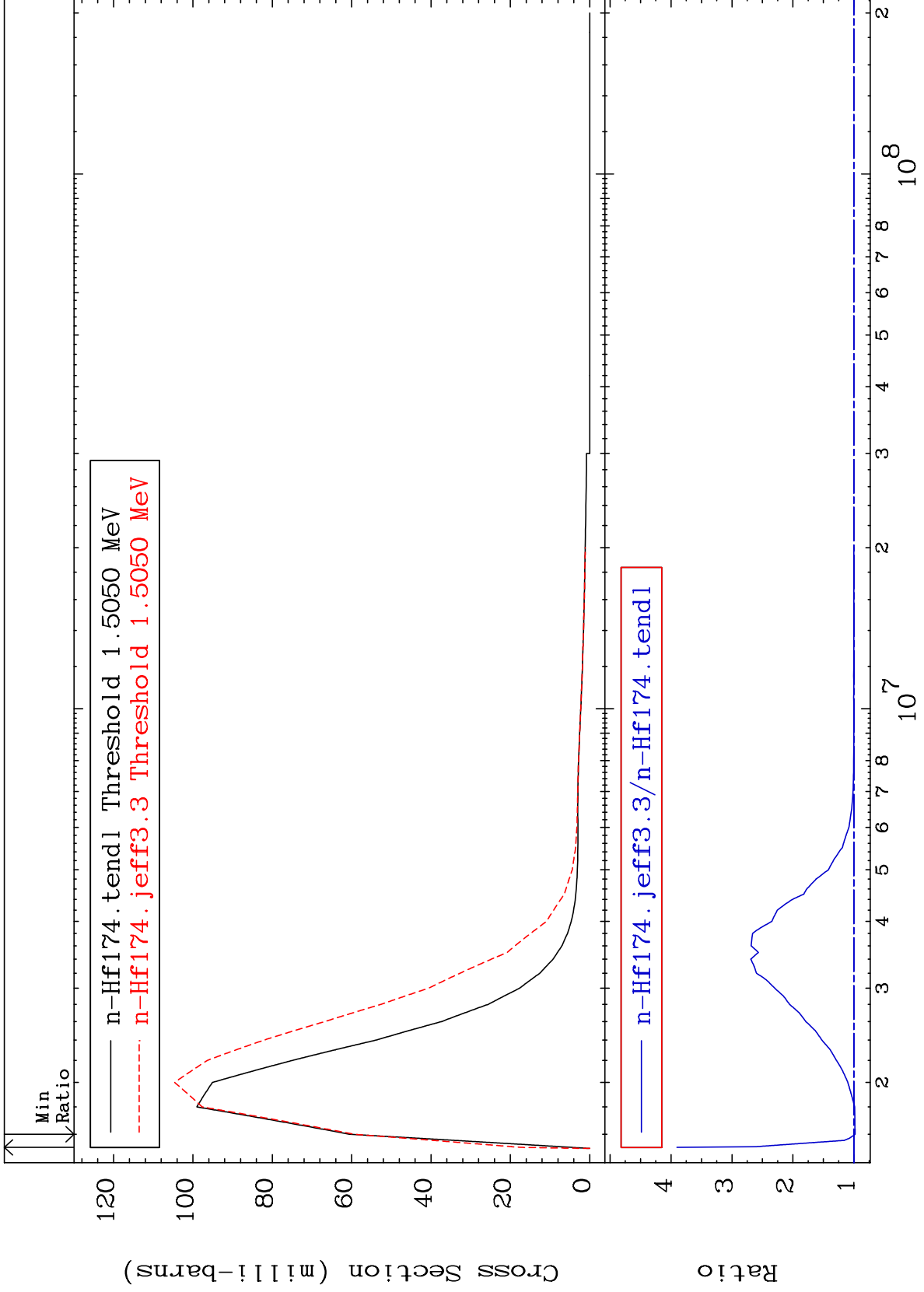




MAT 7225

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

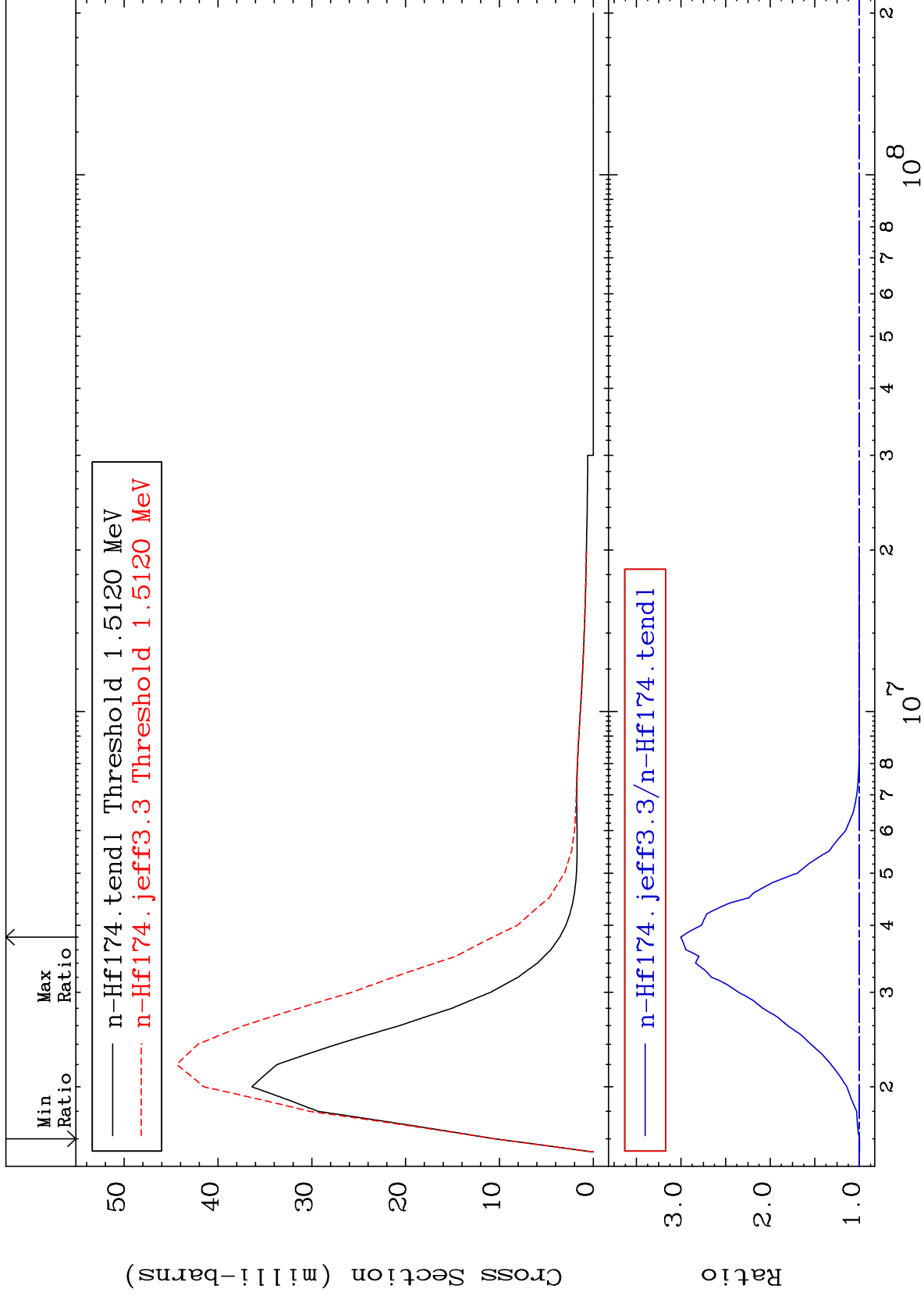
72-Hf-174  
-1.991 To 290.3 %



MAT 7225

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

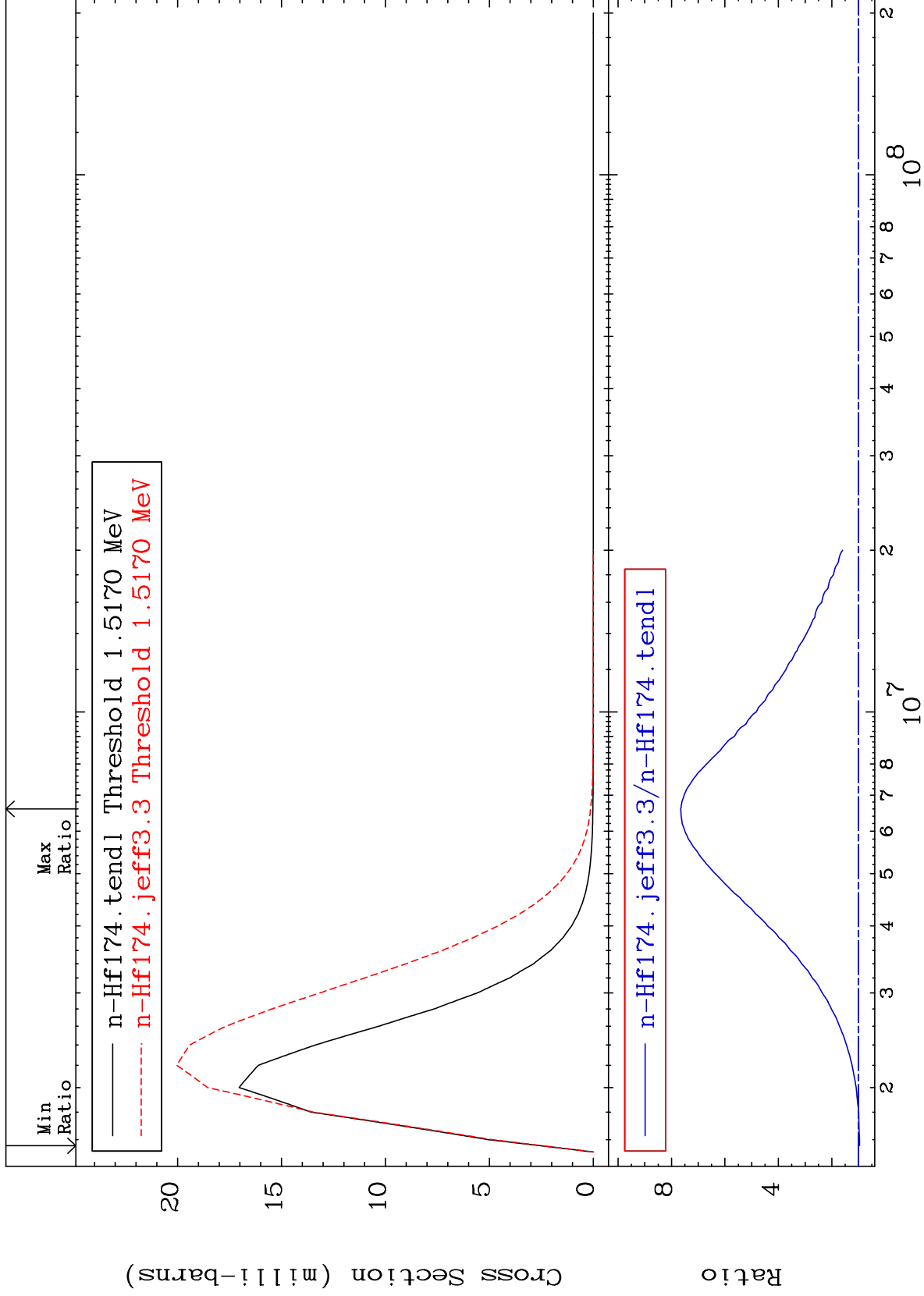
72-Hf-174  
-0.177 To 200.3 %



MAT 7225

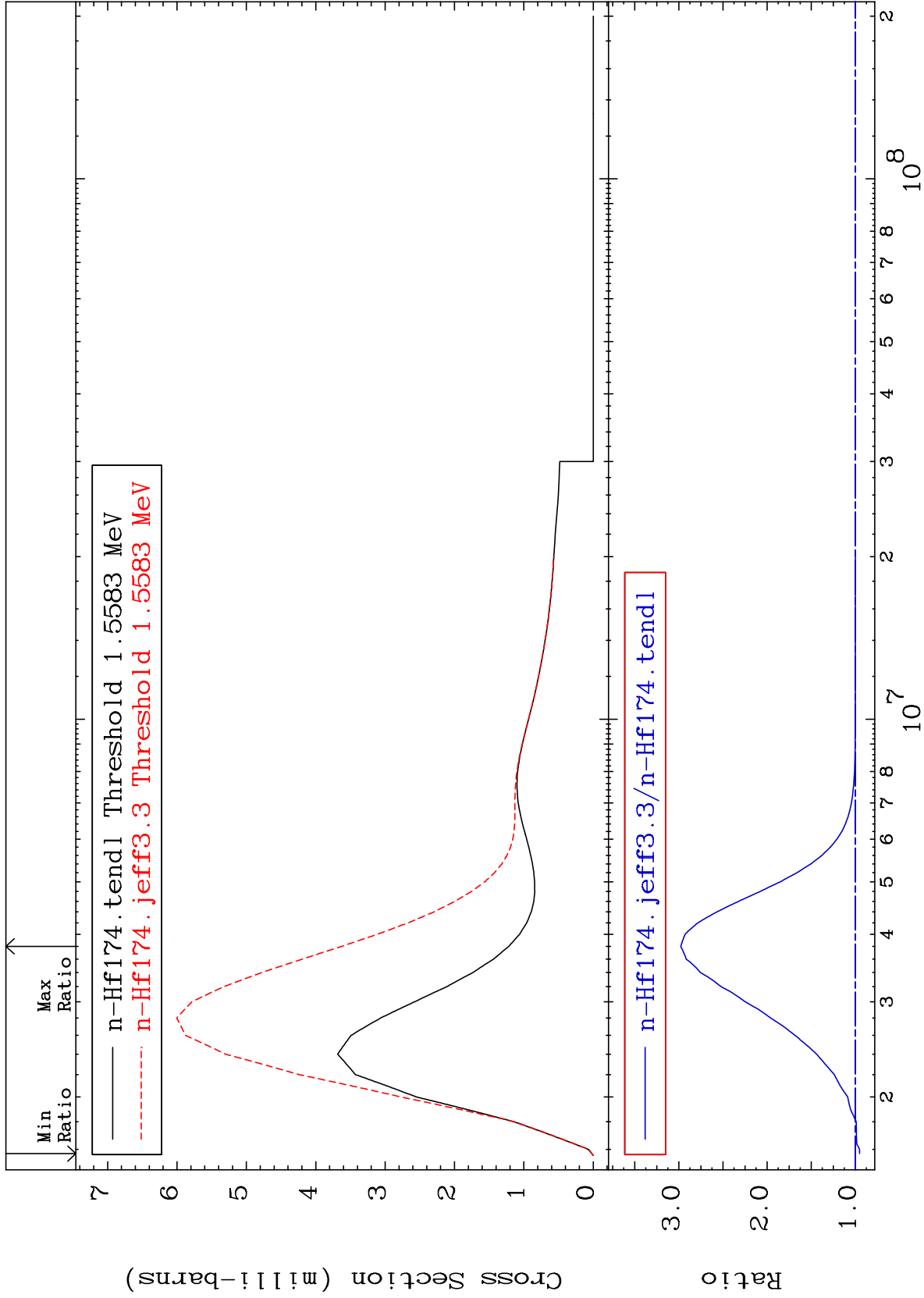
MT= 72 (n,n') Level  
Cross Section

72-Hf-174  
-3.743 To 665.4 %



35

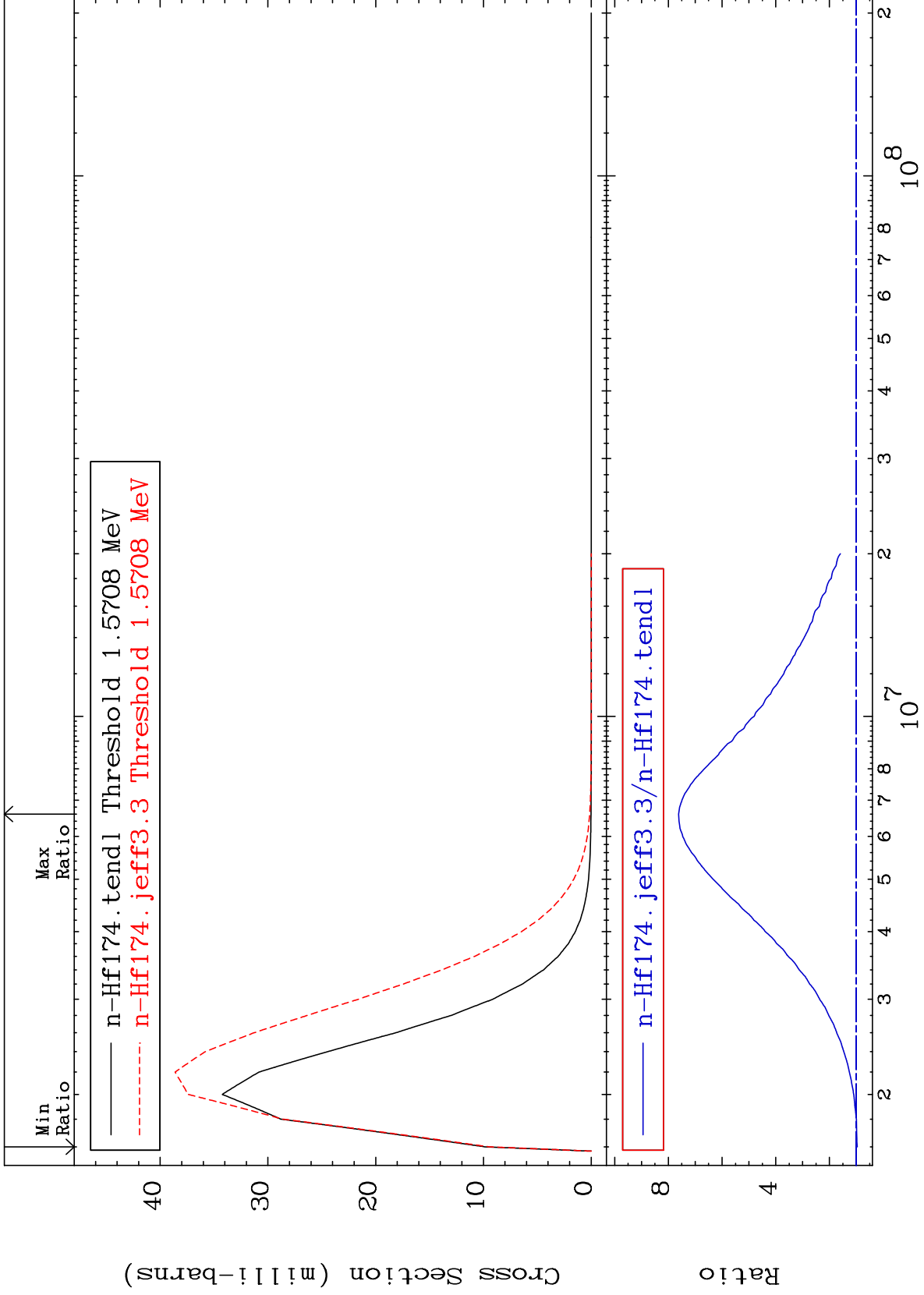
72-Hf-174



MAT 7225

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

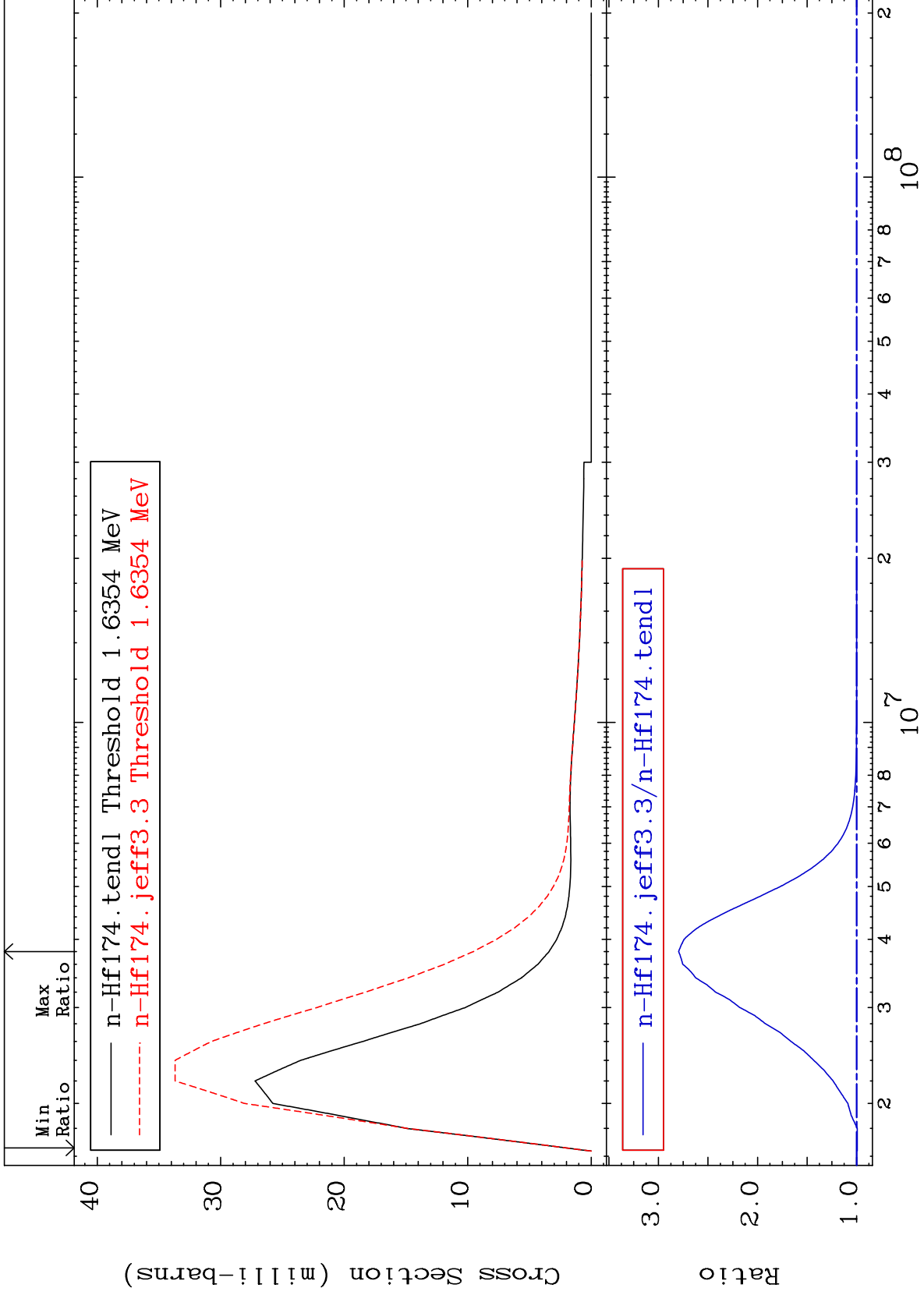
72-Hf-174  
-3.841 To 661.8 %



MAT 7225

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

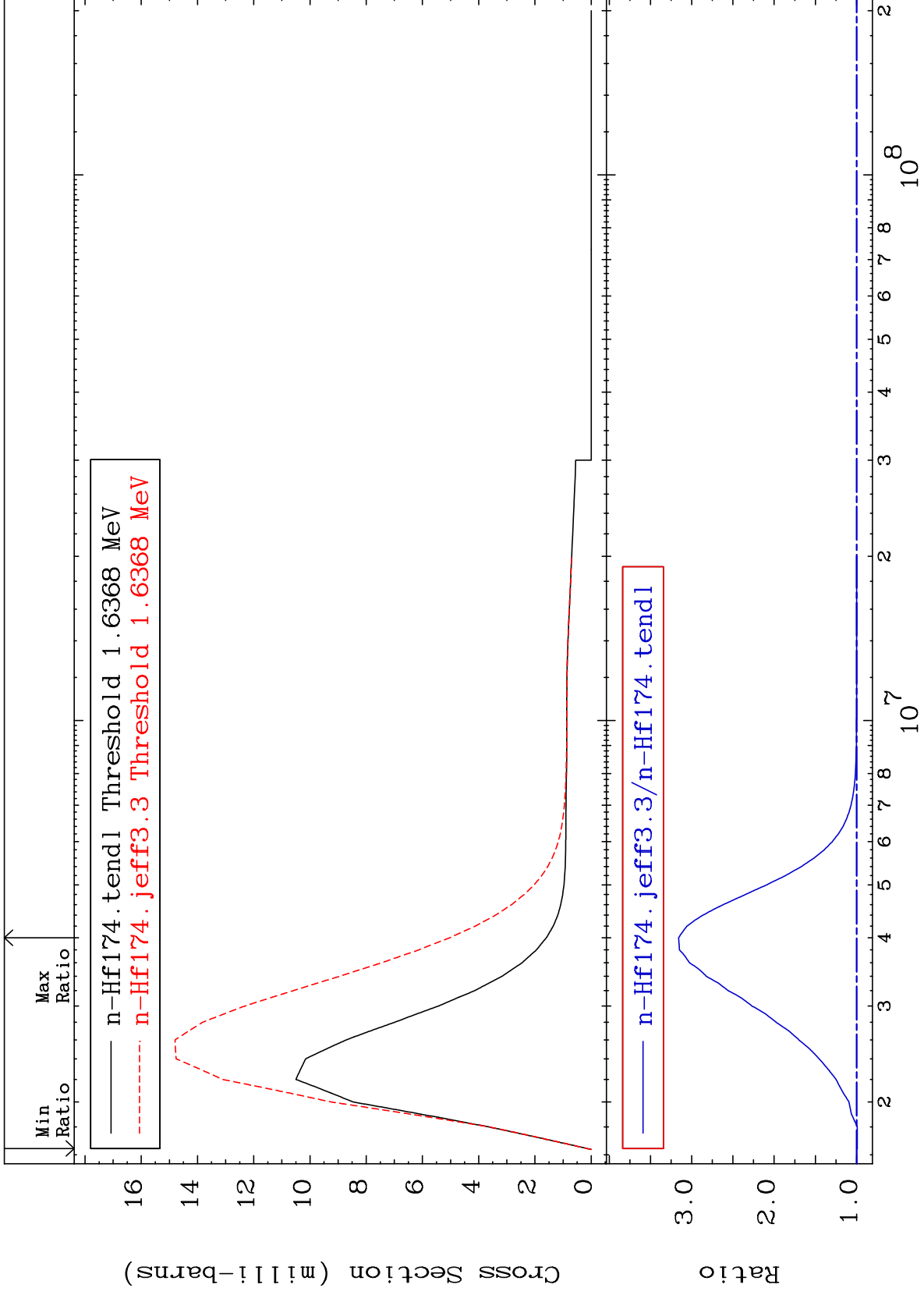
72-Hf-174  
-0.678 To 179.7 %



MAT 7225

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

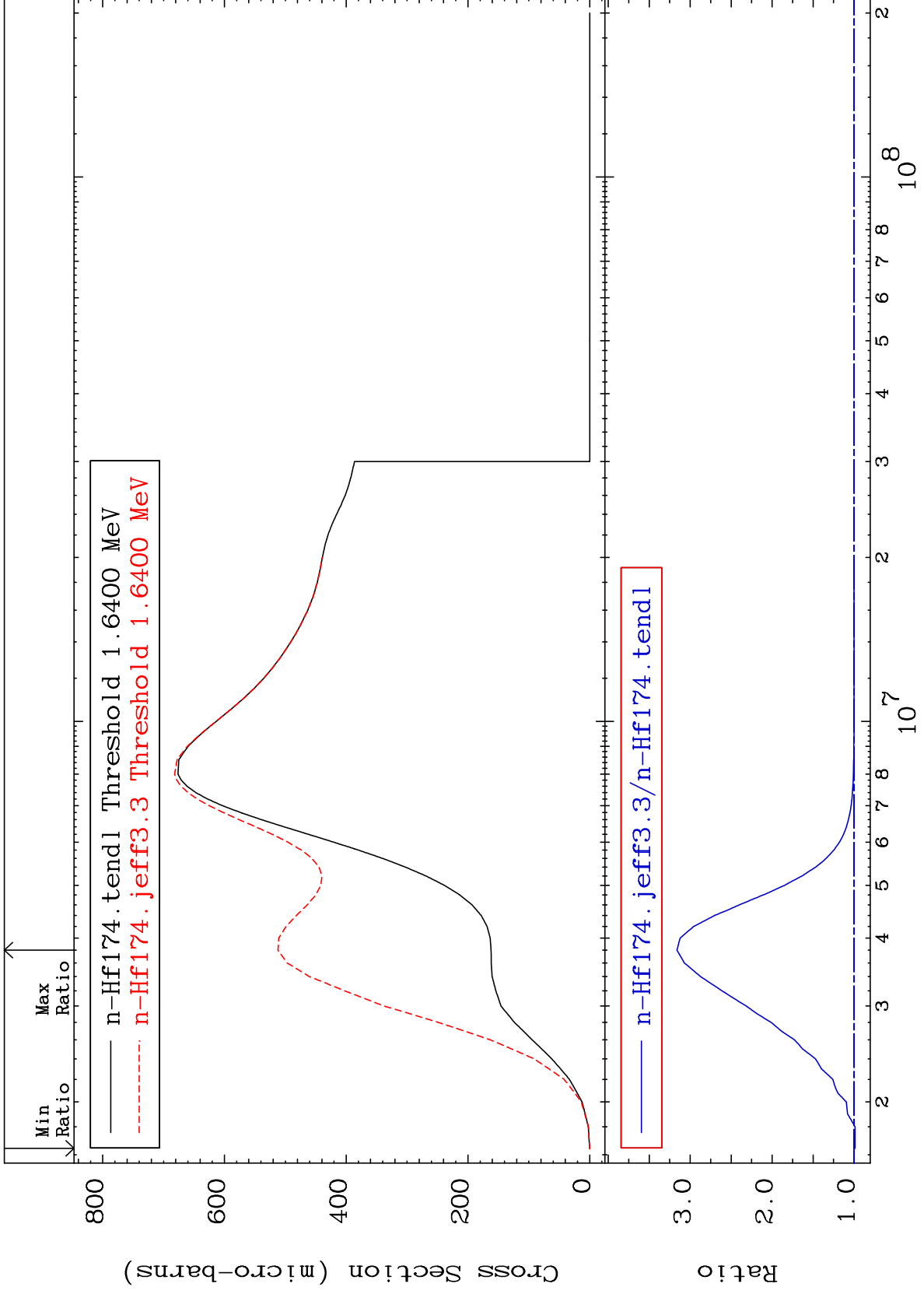
72-Hf-174  
-0.818 To 215.9 %



MAT 7225

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

72-Hf-174  
-1.247 To 216.2 %



40

Incident Energy (eV)

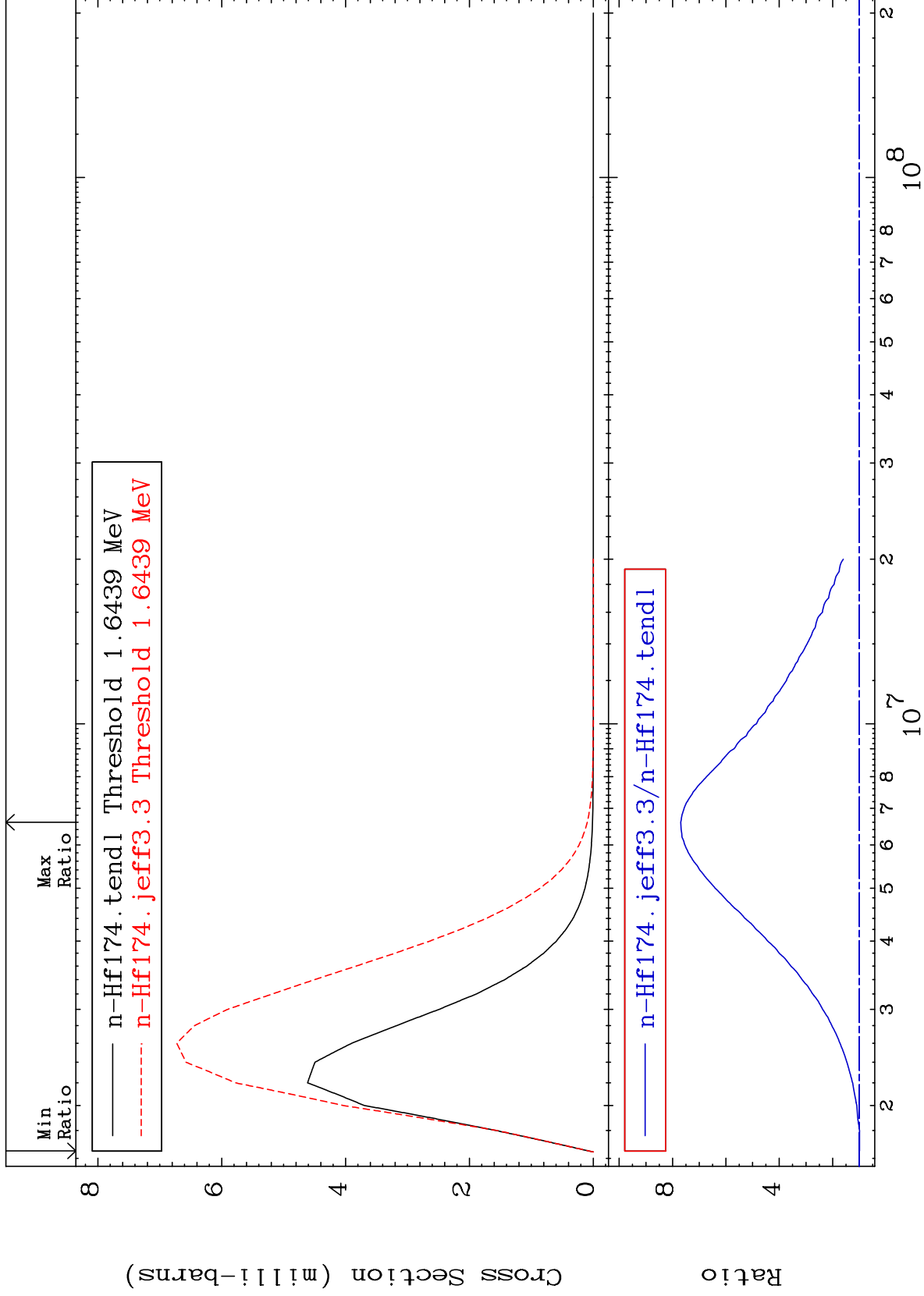
72-Hf-174



MAT 7225

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

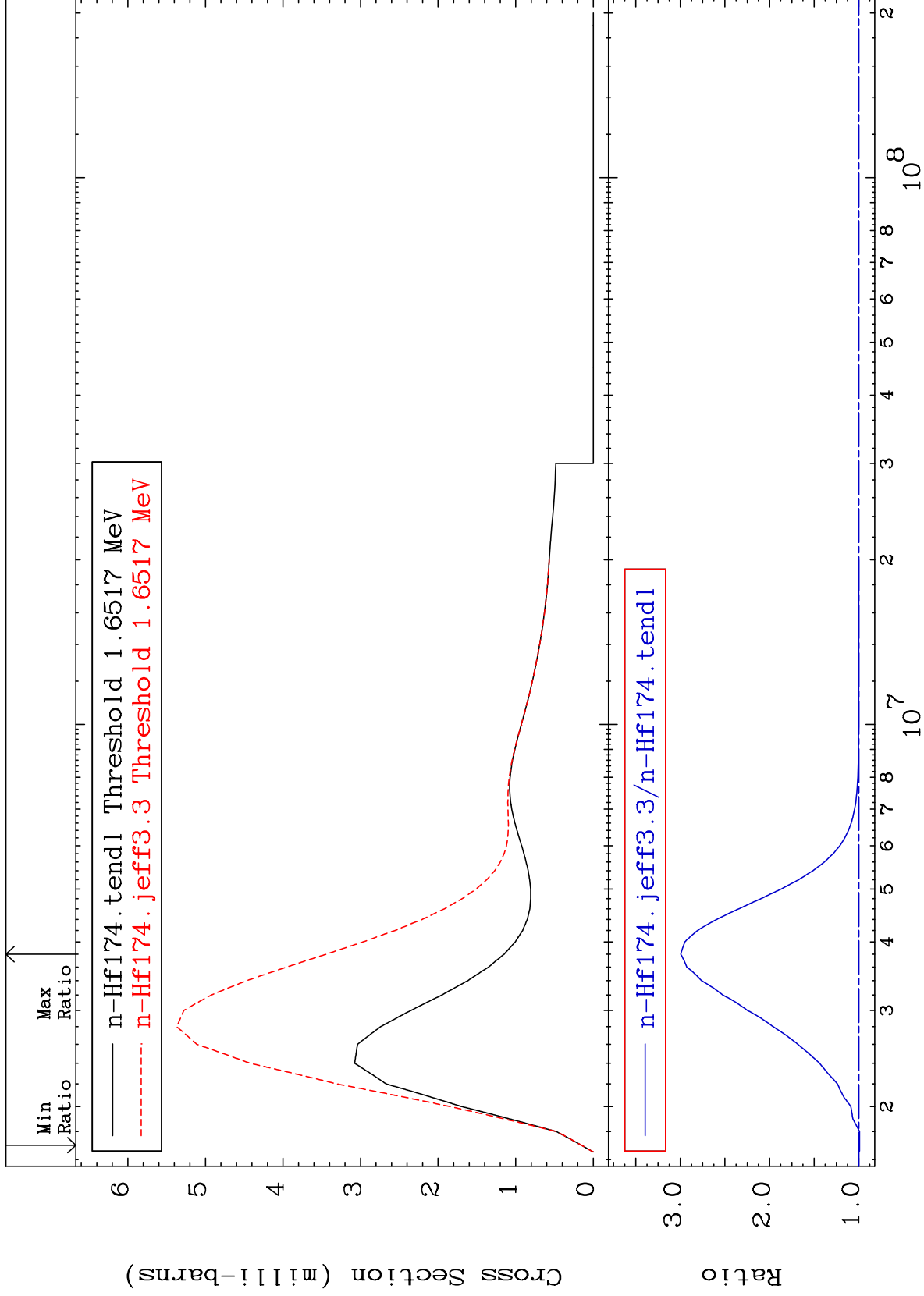
72-Hf-174  
-0.918 To 669.1 %



MAT 7225

MT= 79 (n,n') Level  
Cross Section

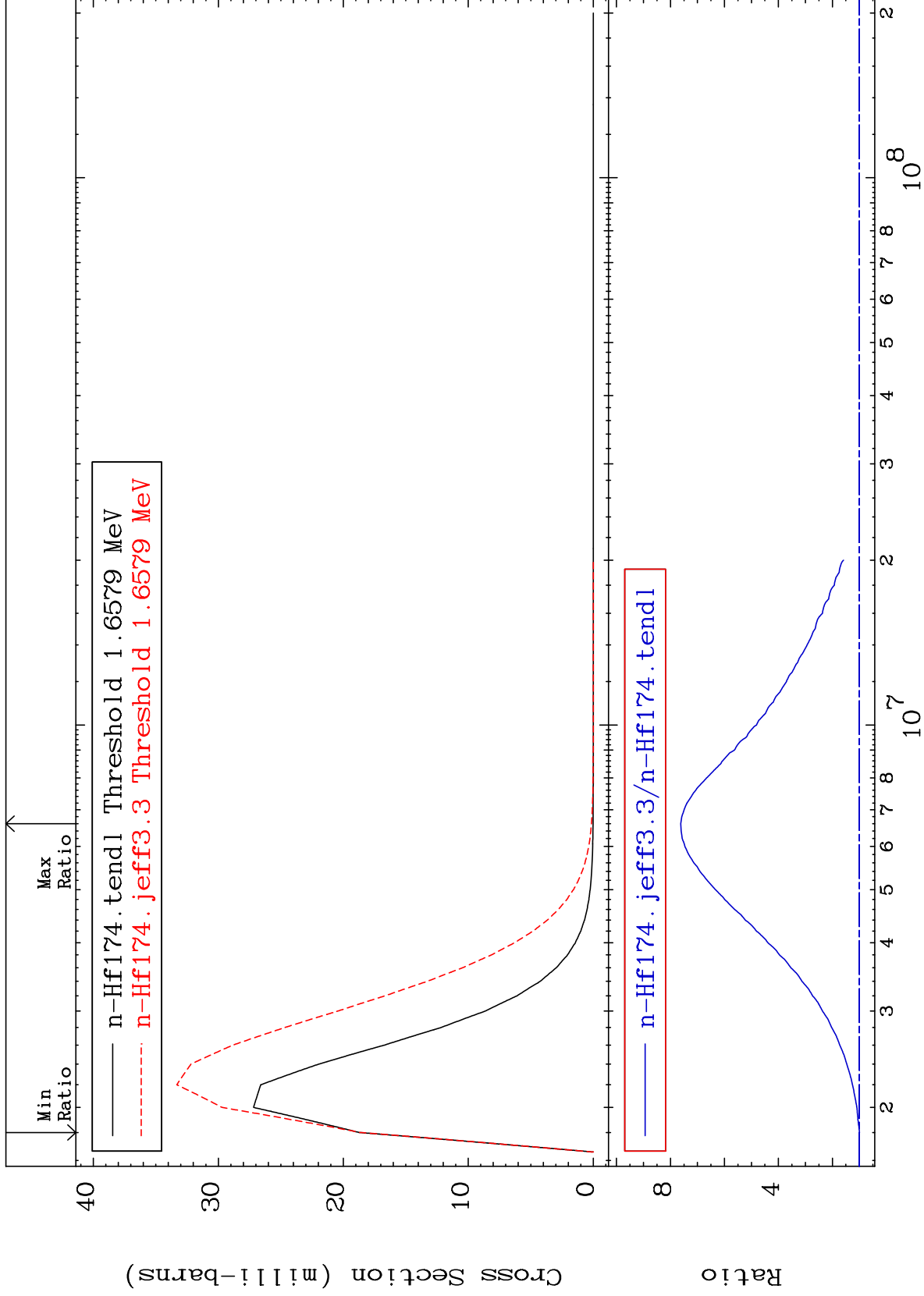
72-Hf-174  
-0.975 To 199.6 %

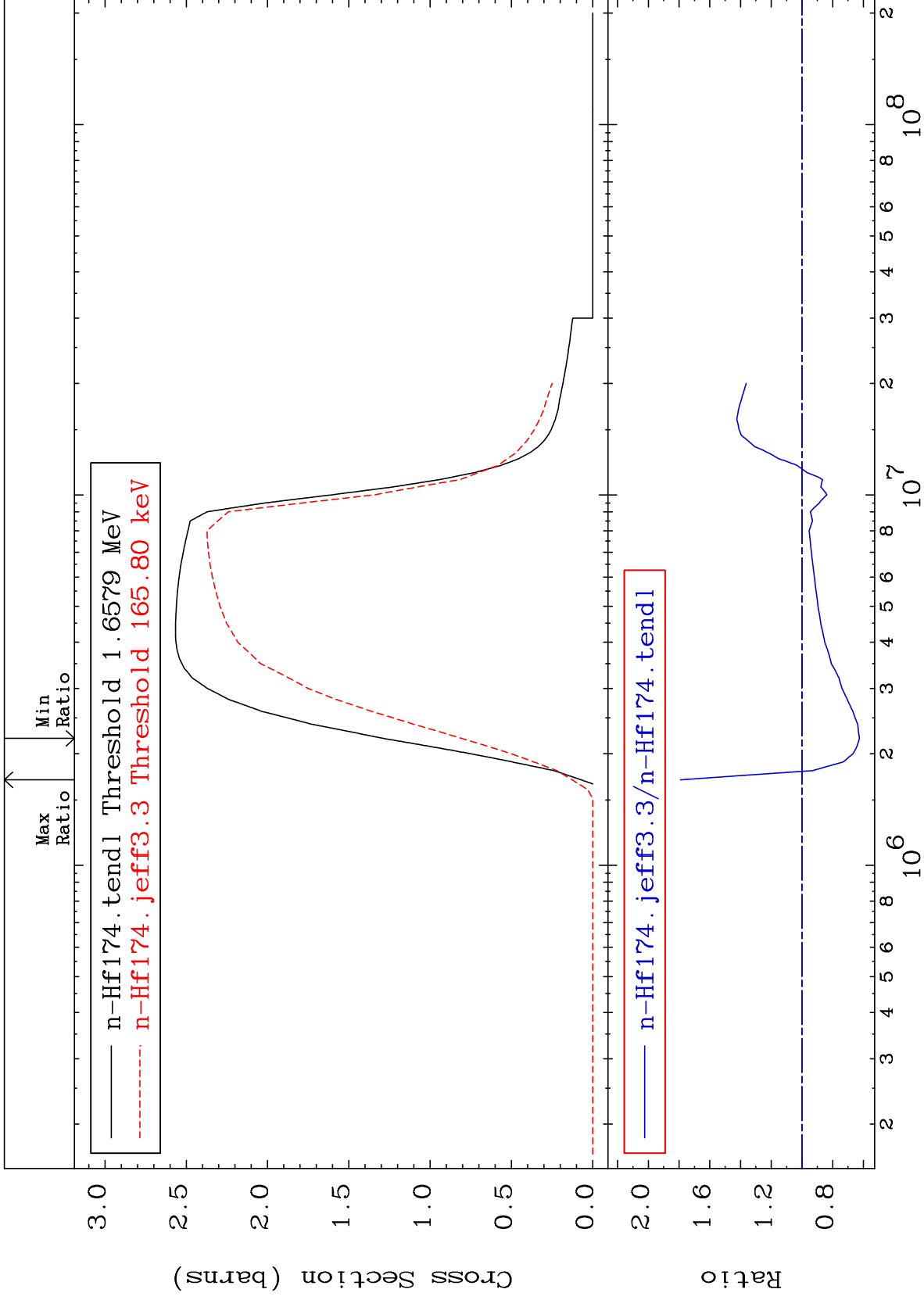


MAT 7225

MT= 80 (n,n') Level  
Cross Section

72-Hf-174  
-0.669 To 661.8 %

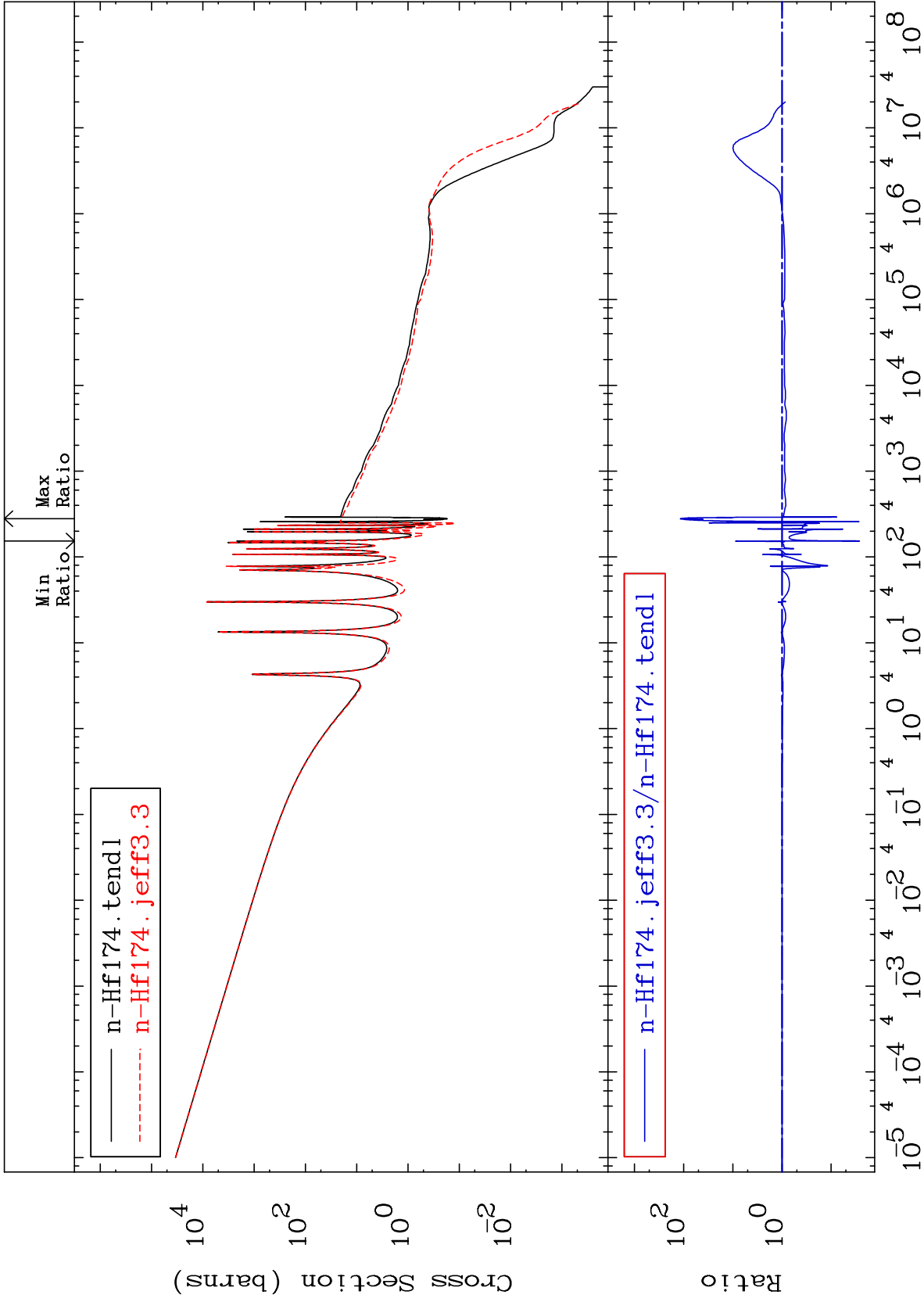




MAT 7225

(n,  $\gamma$ )  
Cross Section

72-Hf-174  
-97.34 To 9999. %



45

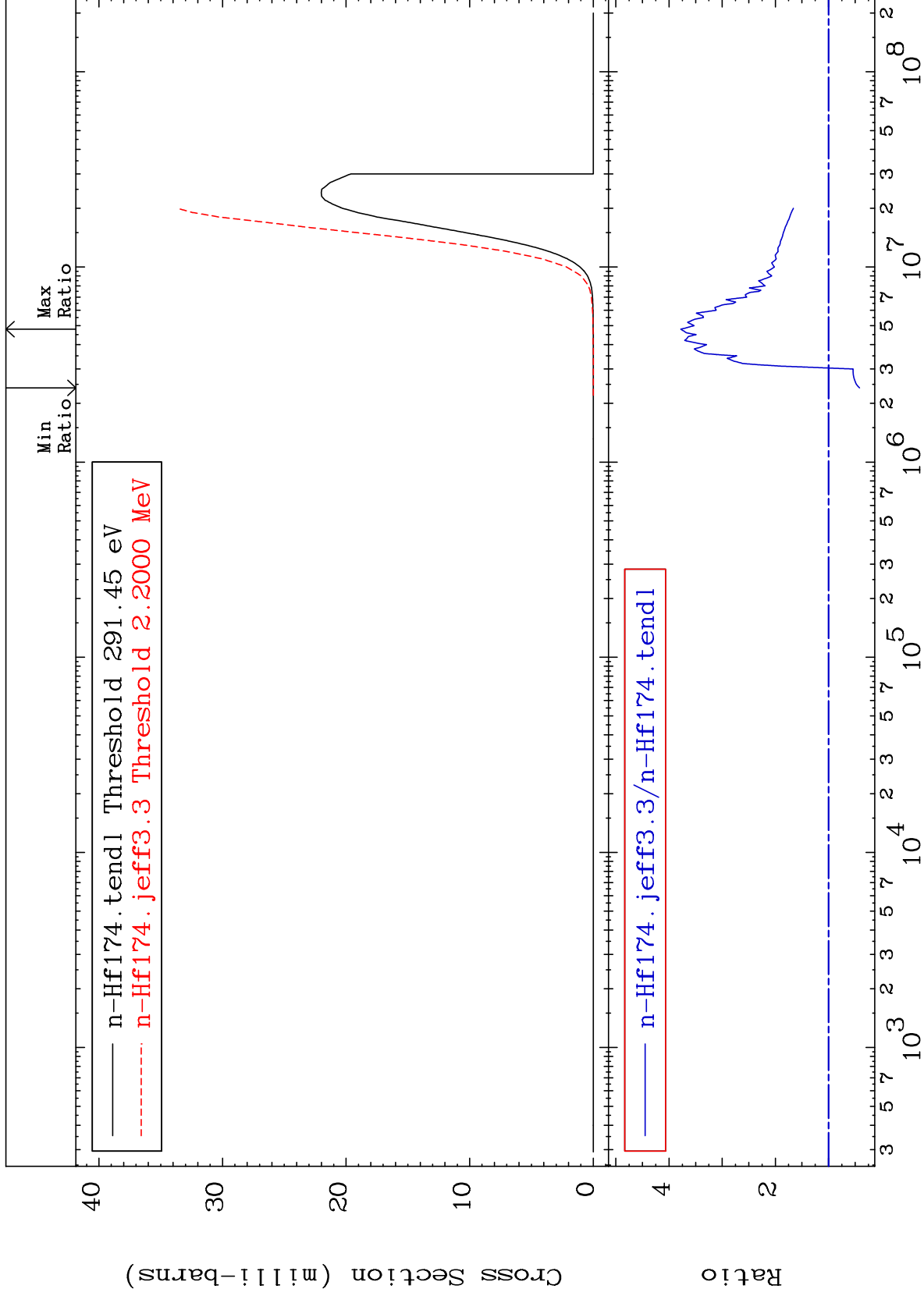
Incident Energy (eV)

72-Hf-174

MAT 7225

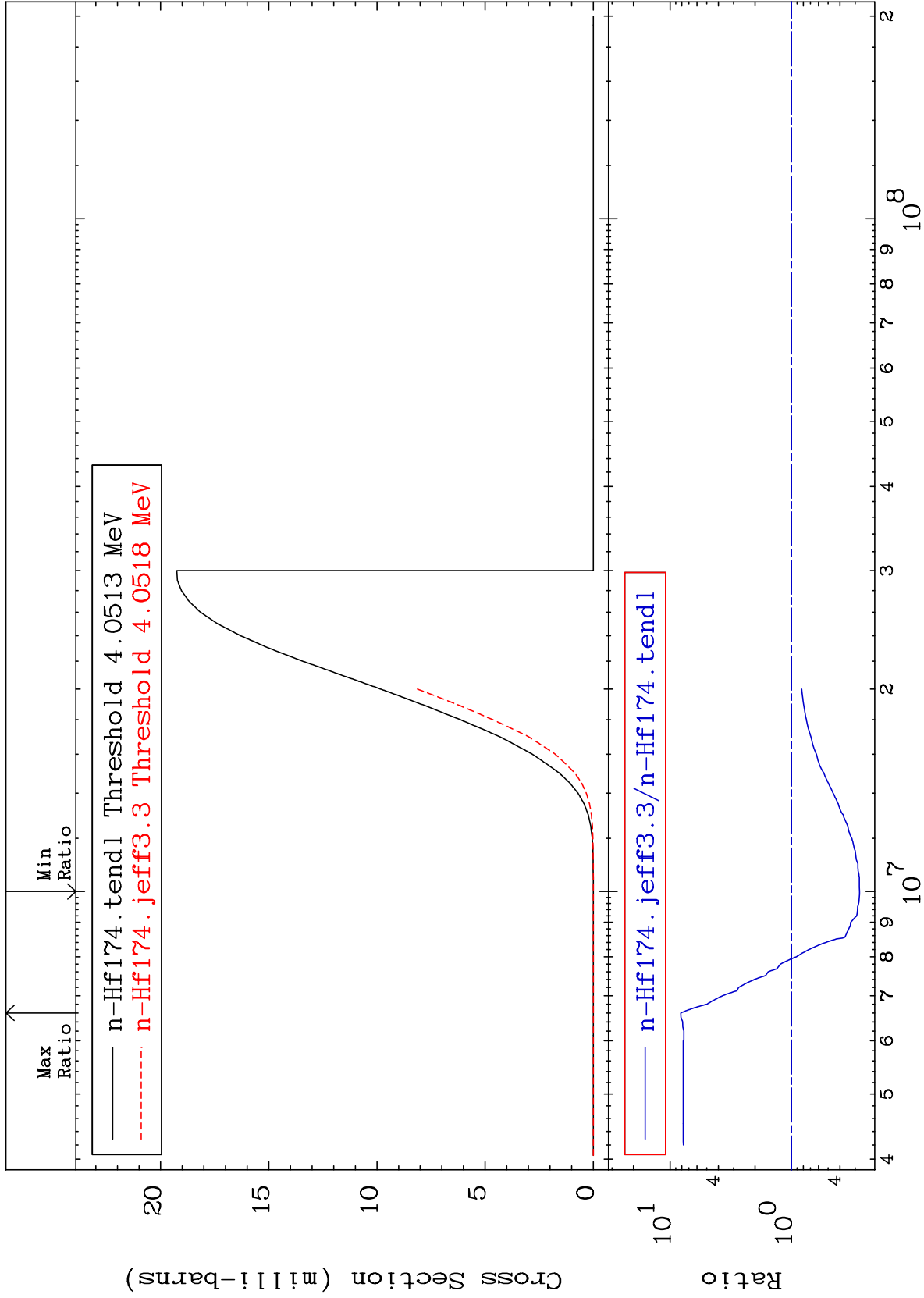
(n, p)  
Cross Section

72-Hf-174  
-58.32 To 277.9 %



Cross Section

-72.43 To 716.5 %

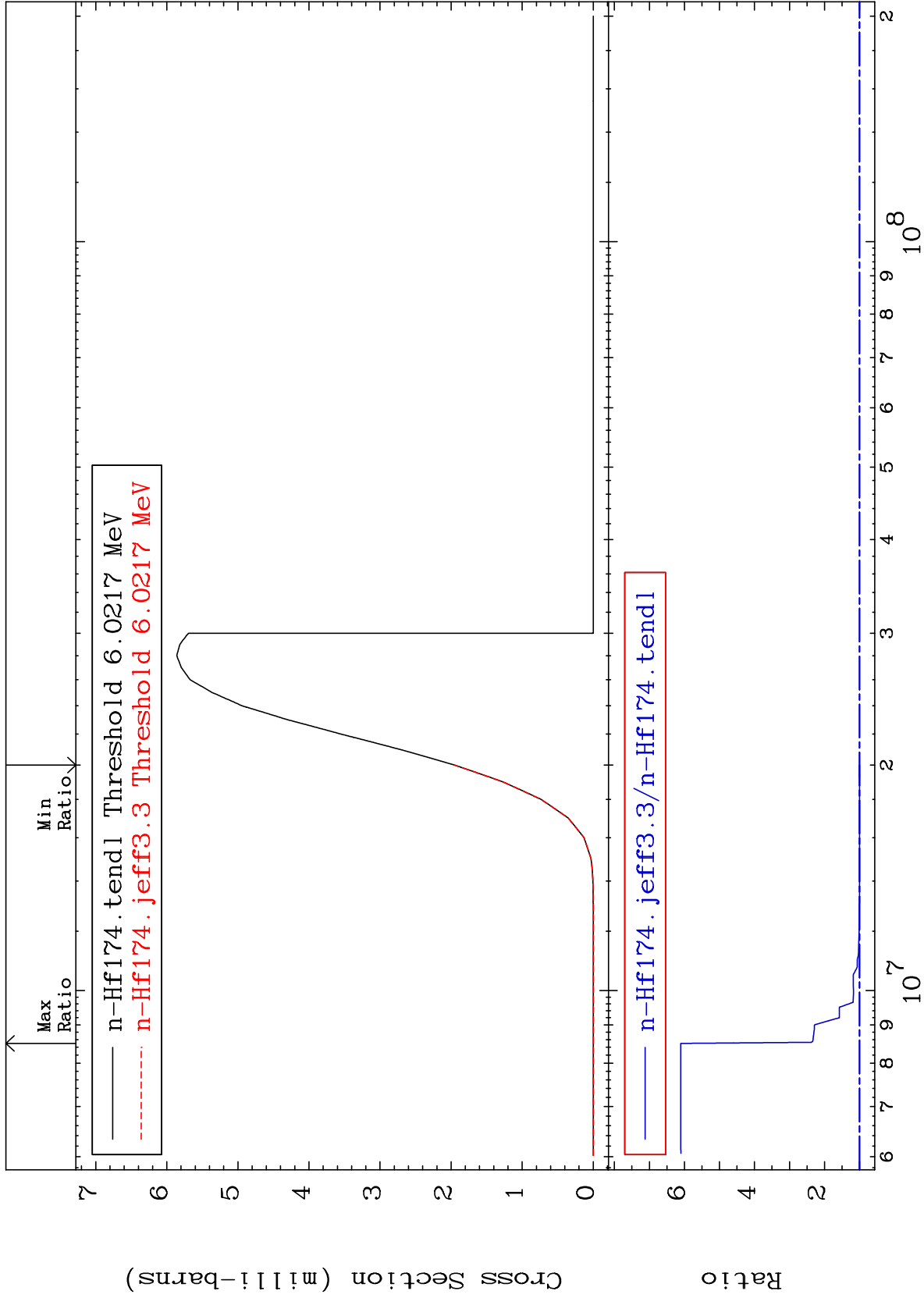


MAT 7225

72-Hf-174

(n, t)  
Cross Section

0.096 To 510.5 %



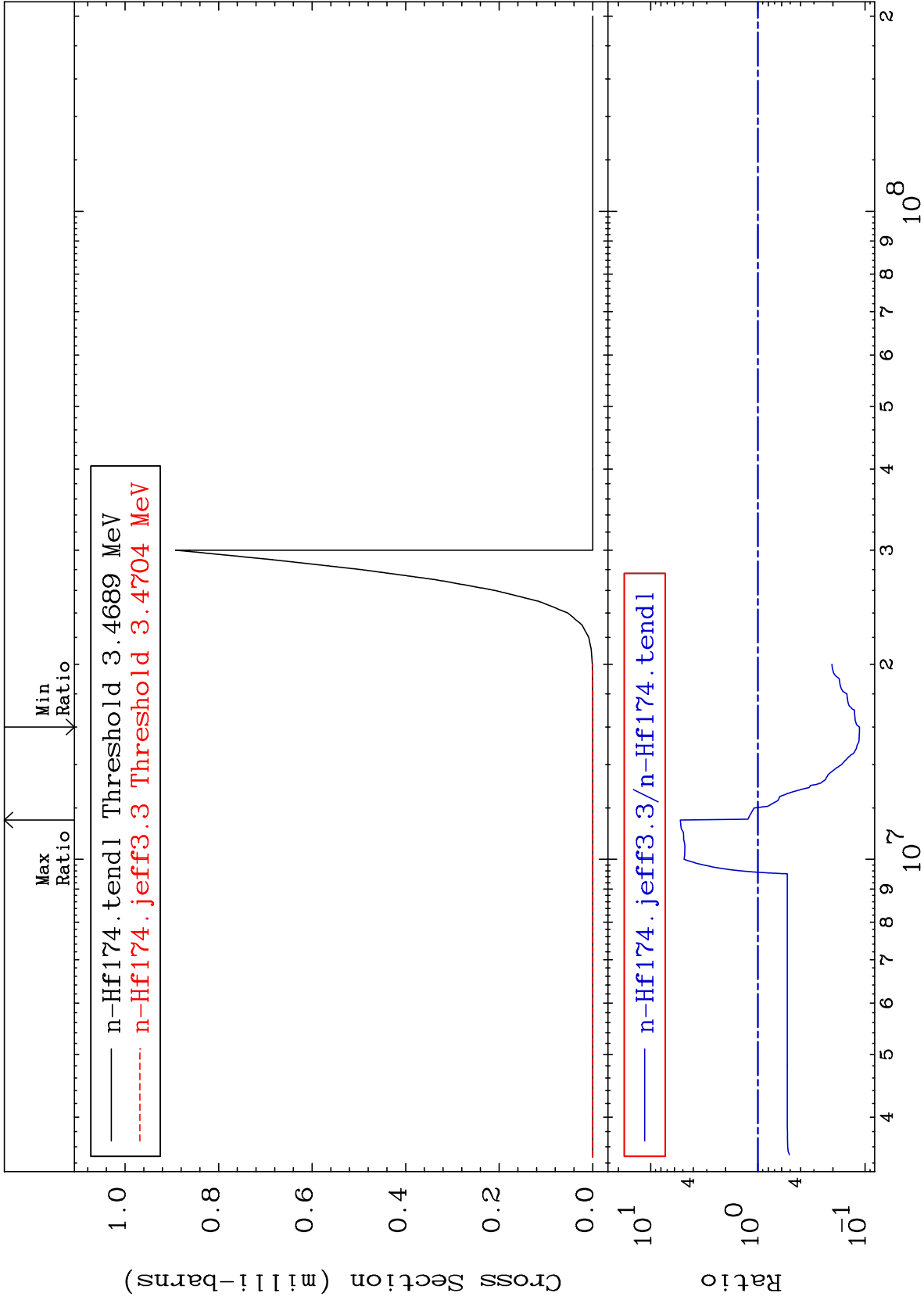
48

72-Hf-174



Cross Section

-88.70 To 428.0 %



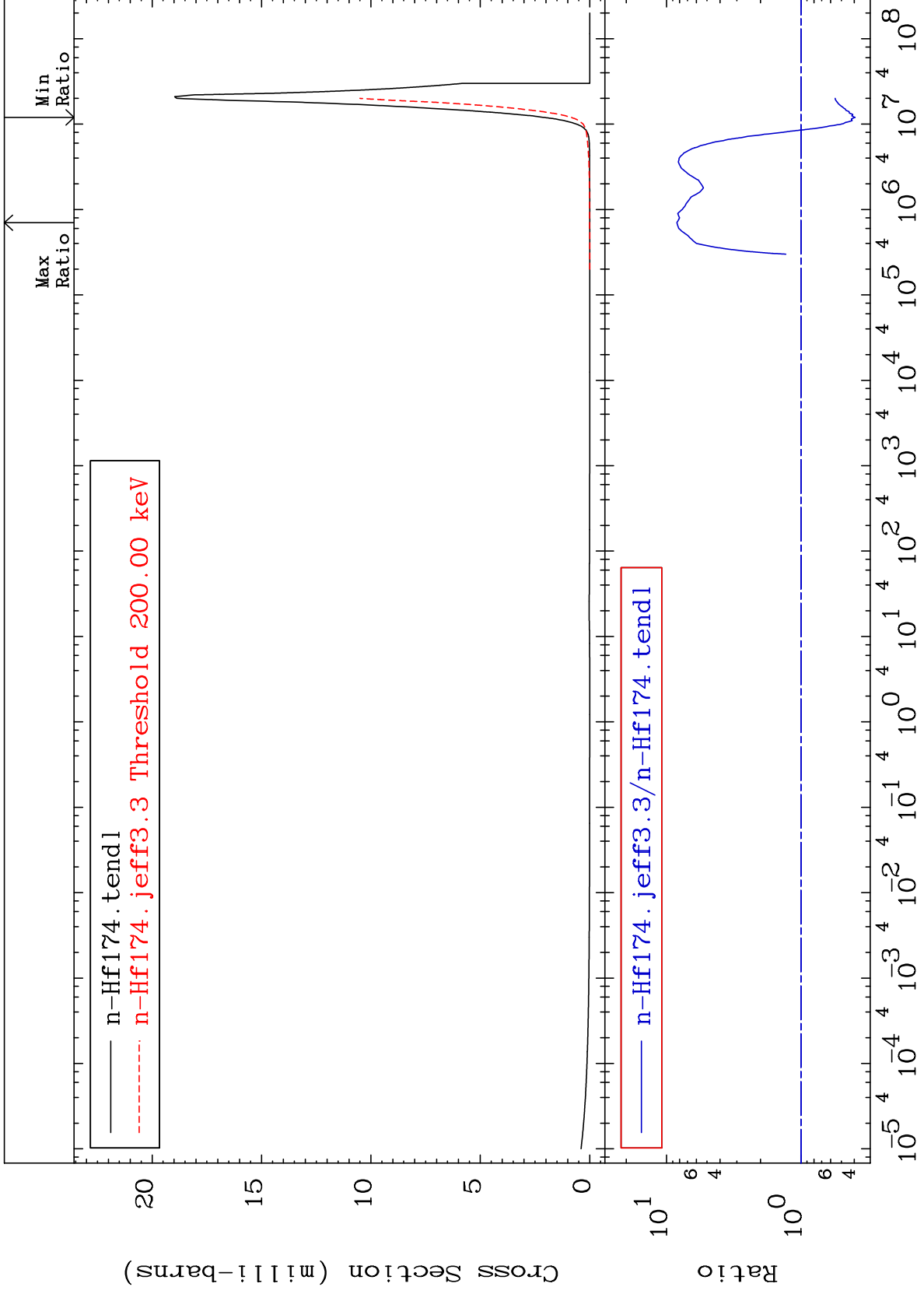
MAT 7225

(n,  $\alpha$ )

Cross Section

72-Hf-174

-60.51 To 737.8 %



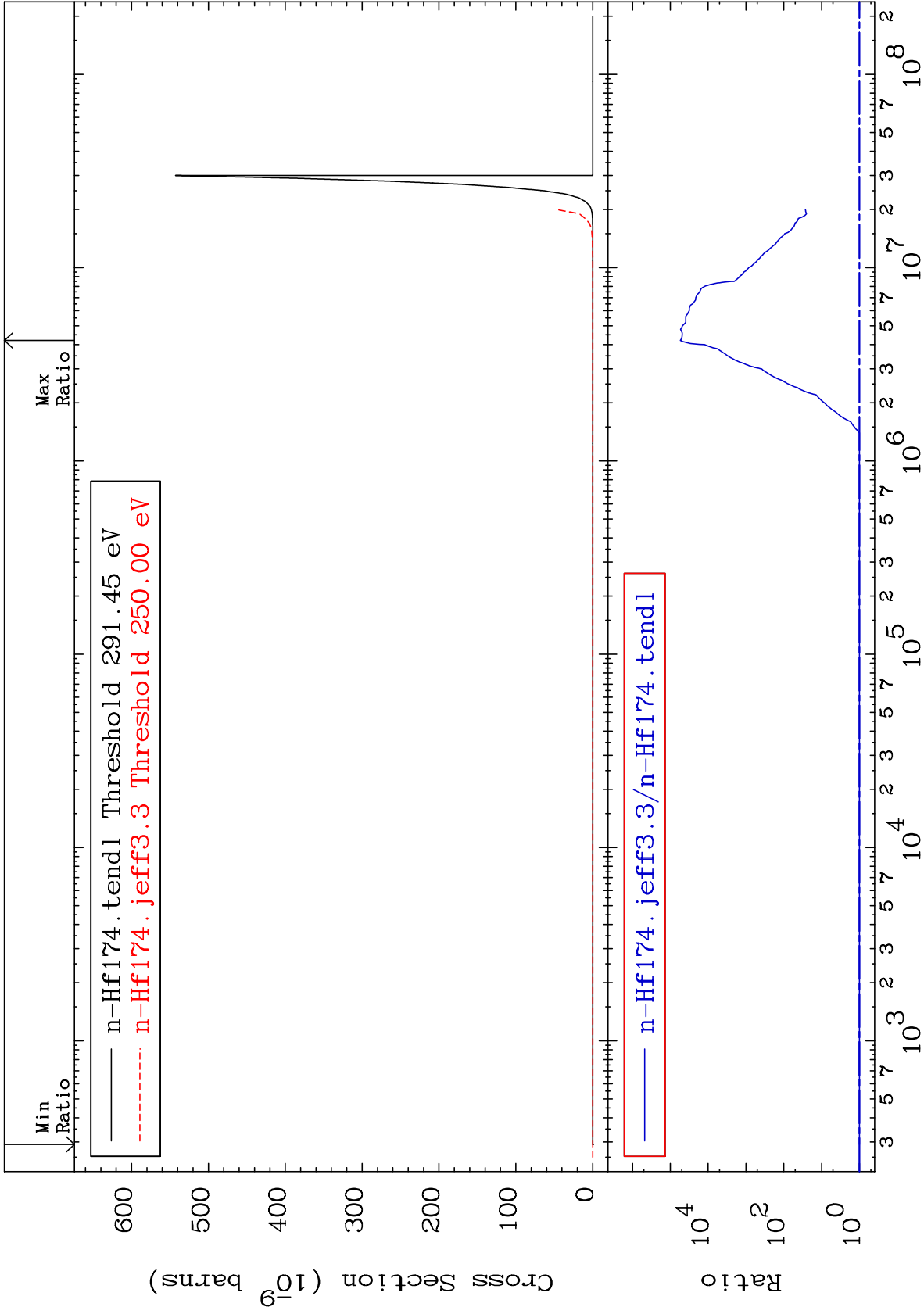
Incident Energy (eV)

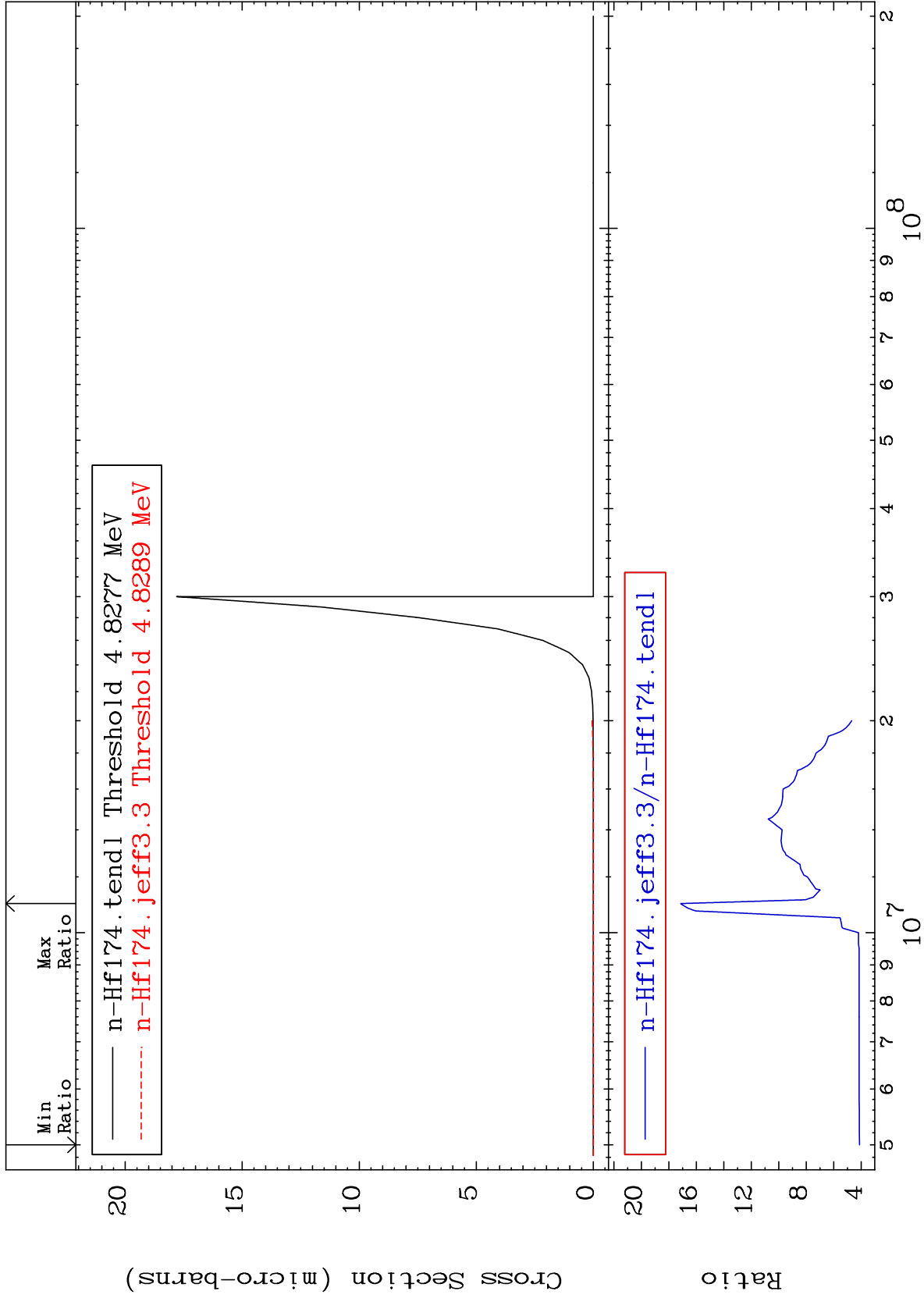
72-Hf-174

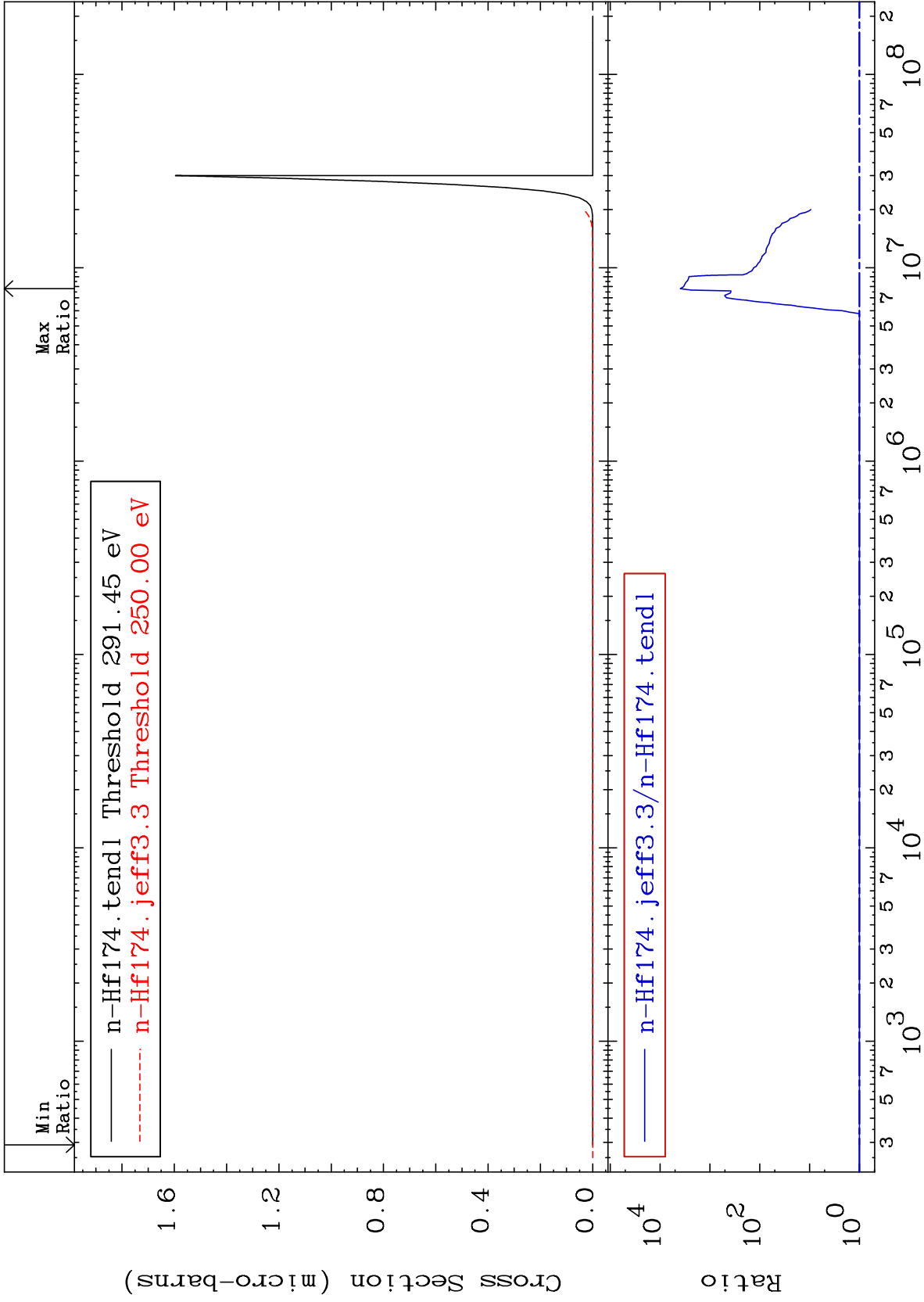
50

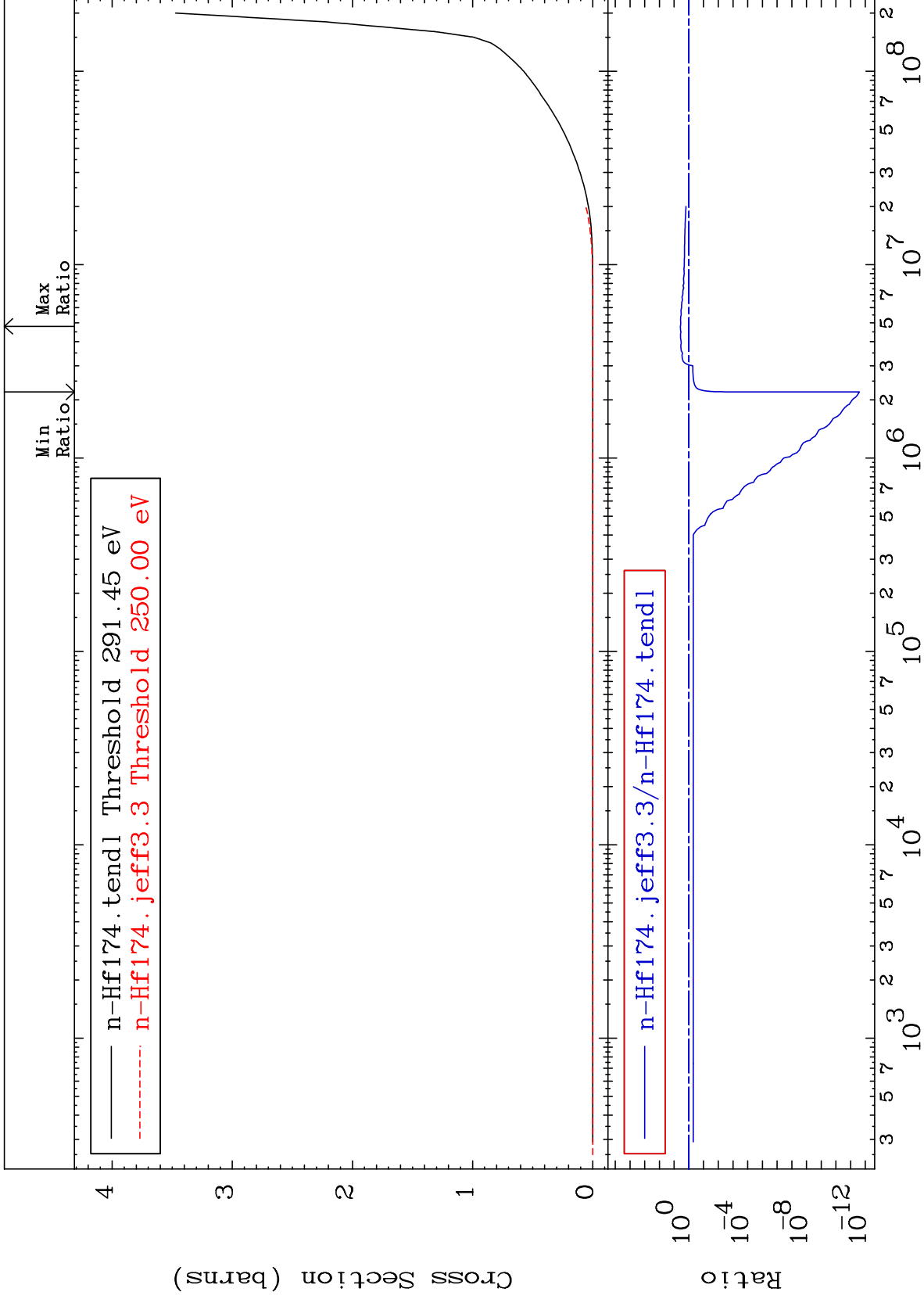
Cross Section

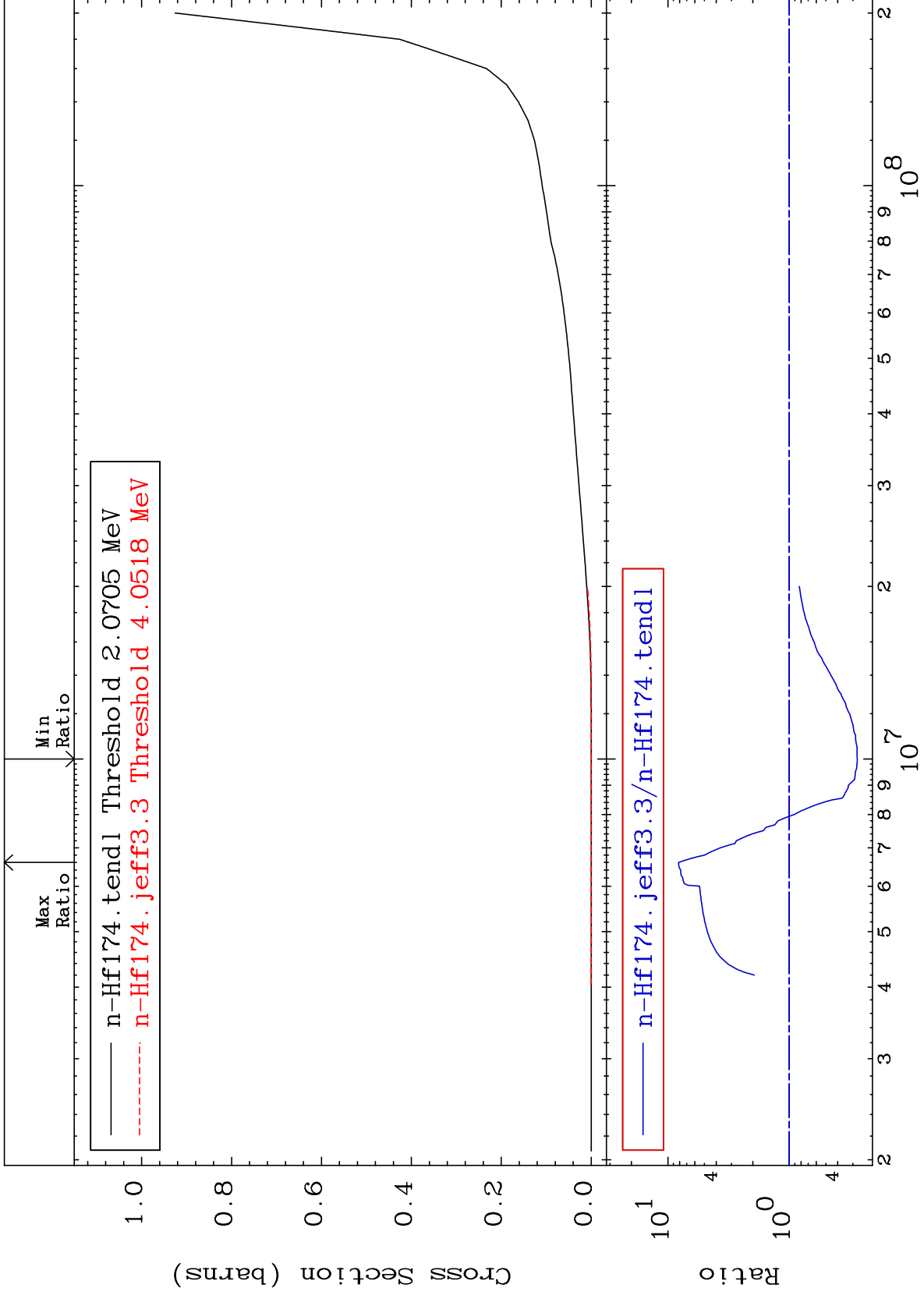
0.000 To 9999. %







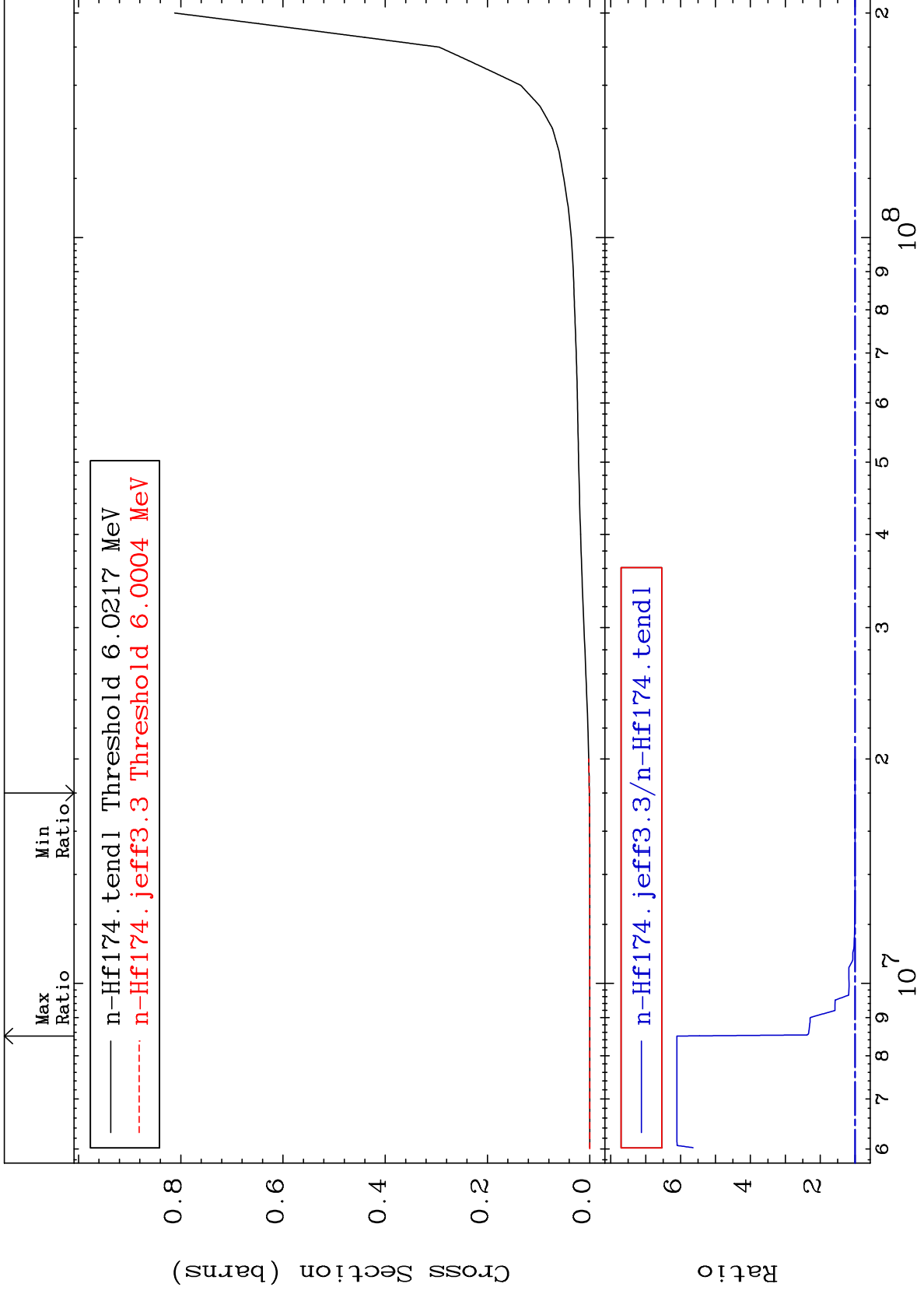




MAT 7225

Tritium Production  
Cross Section

<sup>72</sup>Hf-174  
0.160 To 510.5 %

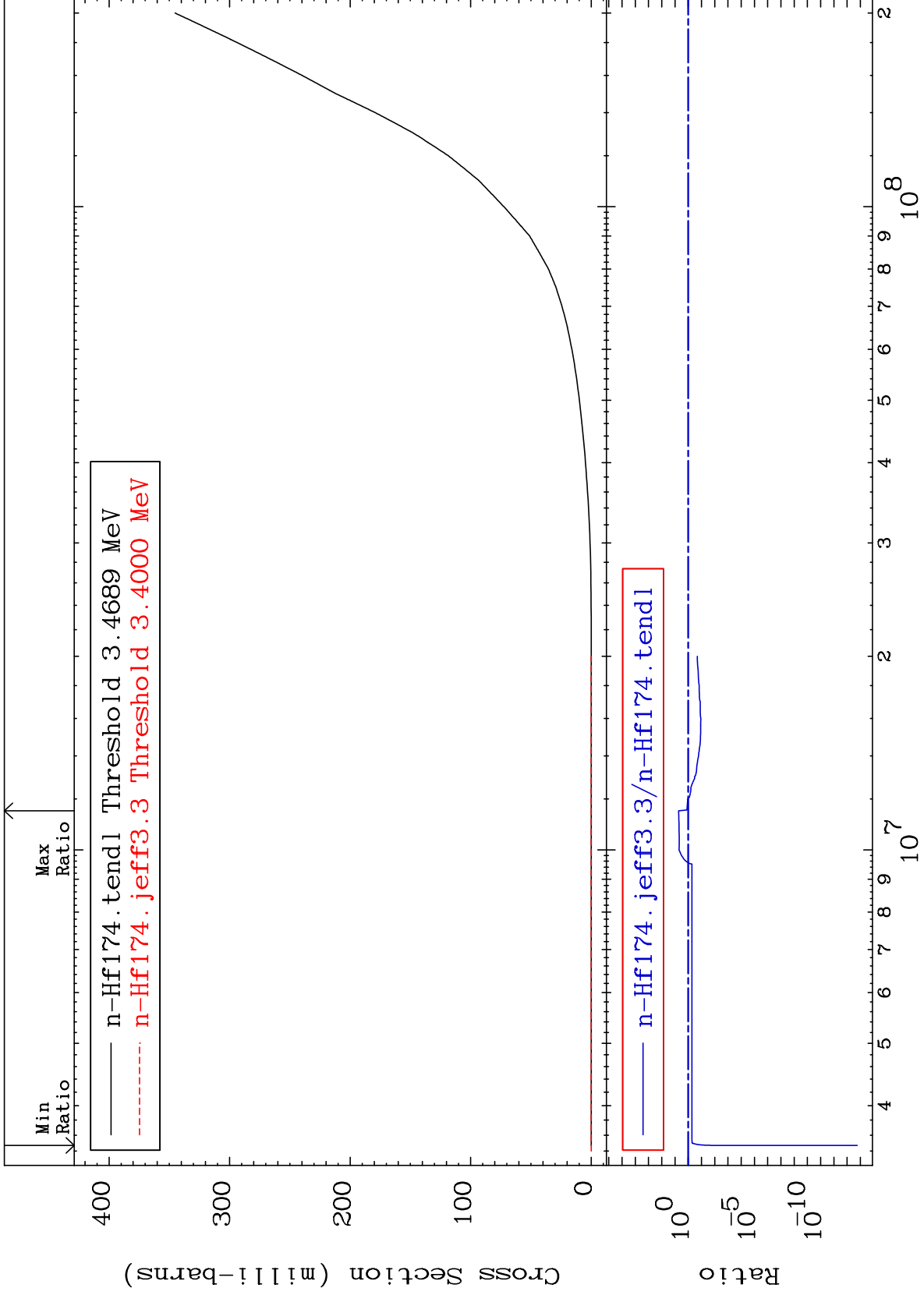


56

Incident Energy (eV)

<sup>72</sup>Hf-174

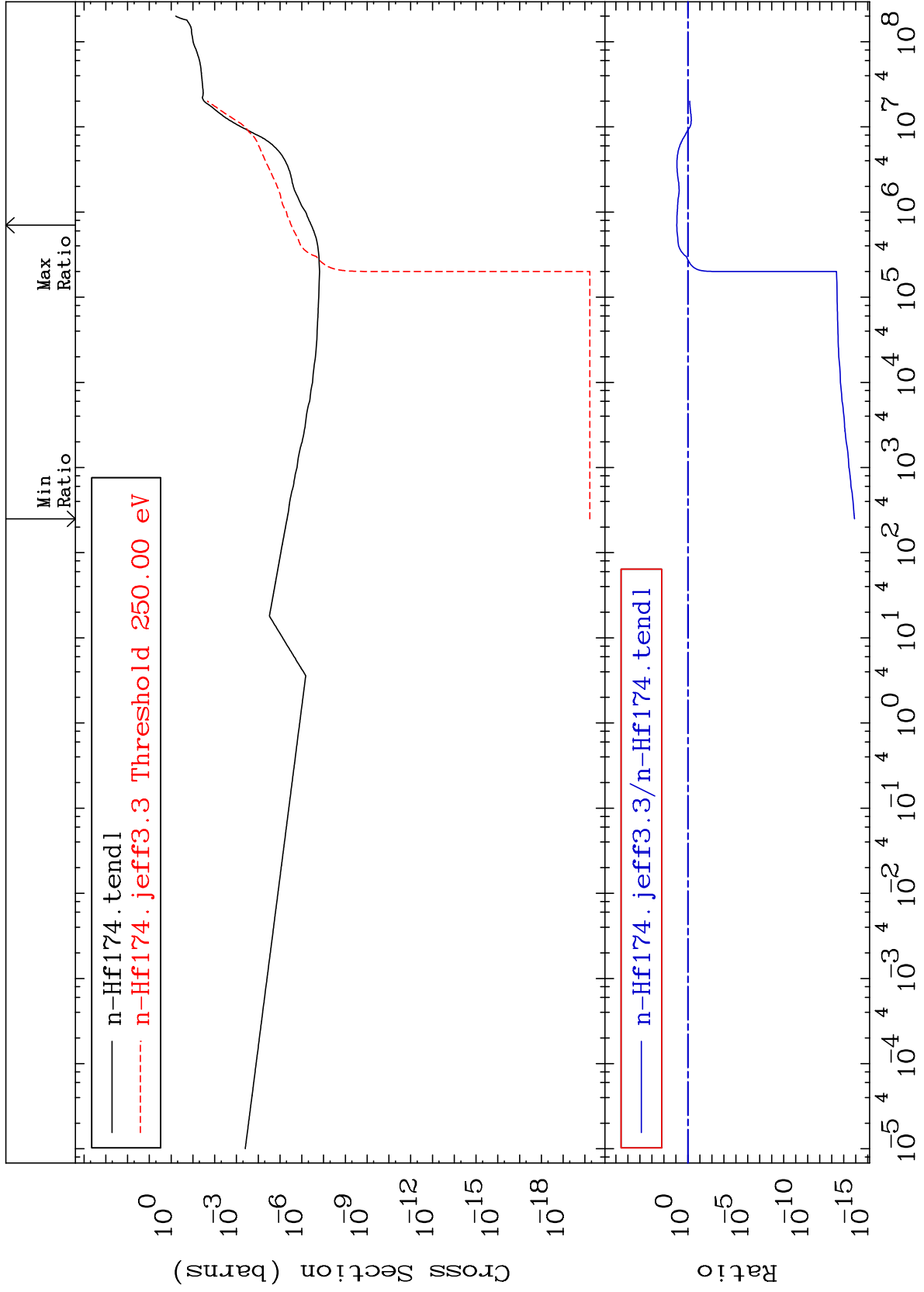


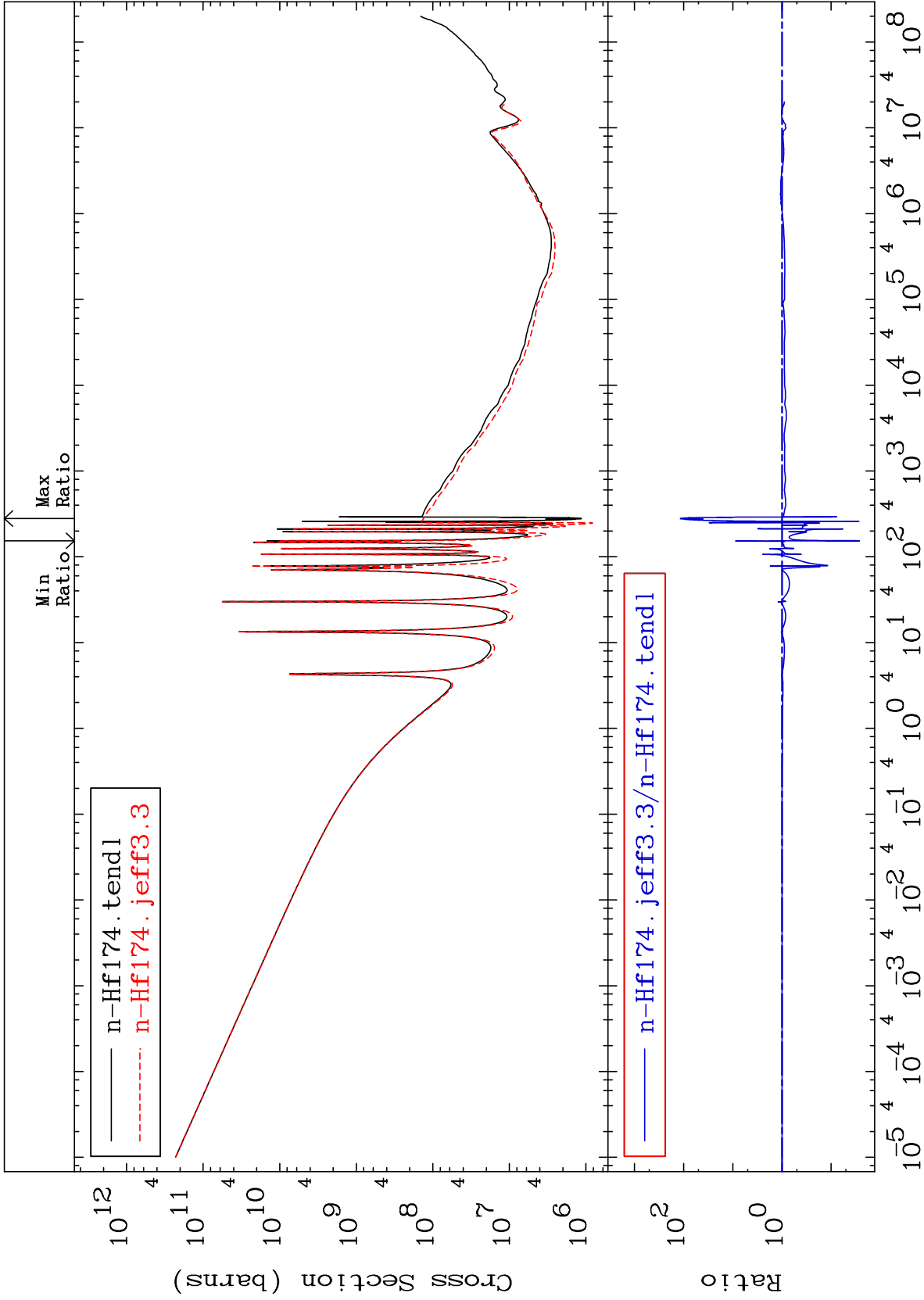


MAT 7225

He-4 Production  
Cross Section

<sup>72</sup>Hf-174  
-100.0 To 737.8 %





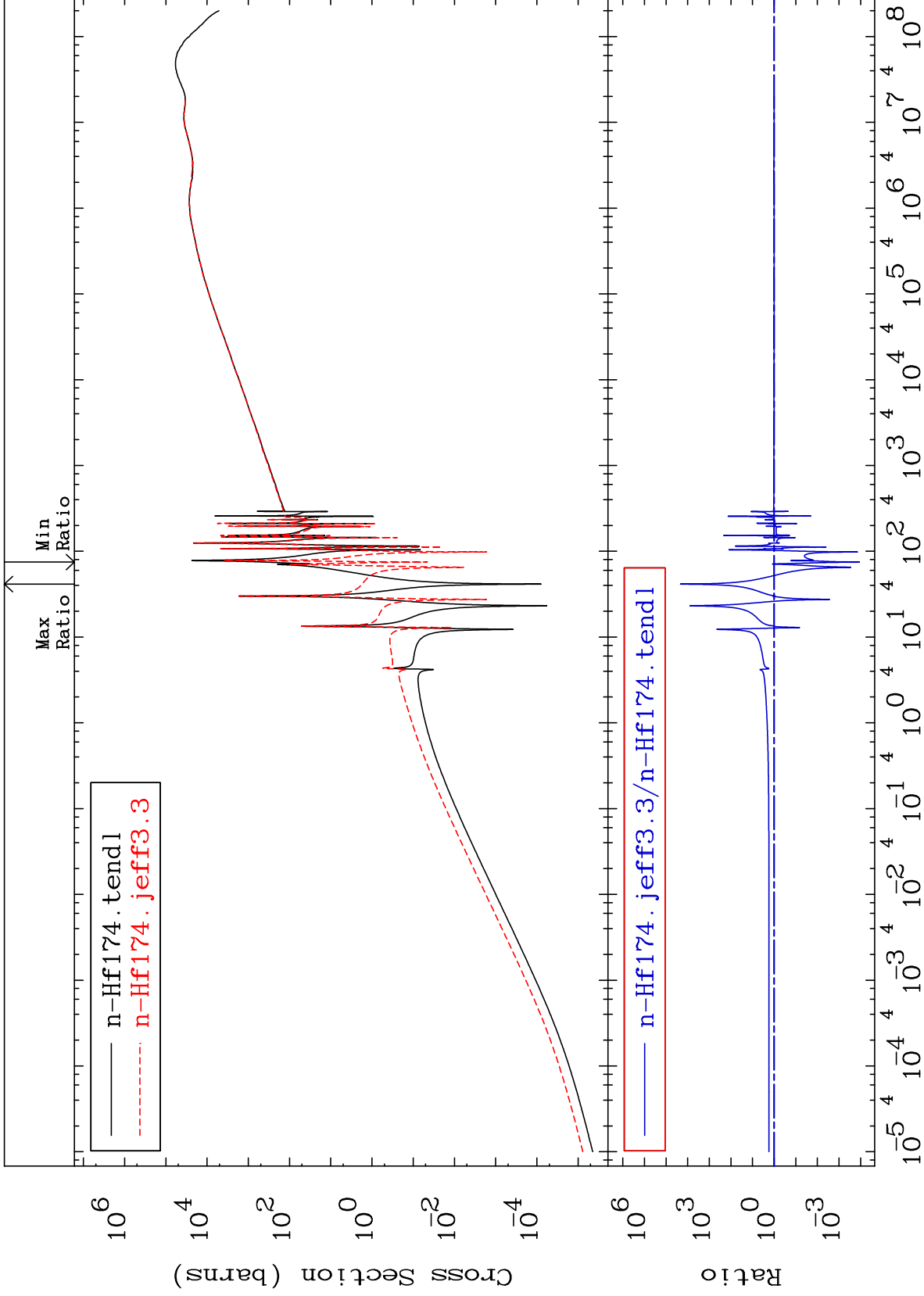
— n-Hf174.tendl  
- - - n-Hf174.jeff3.3

— n-Hf174.jeff3.3/n-Hf174.tendl

MAT 7225

Kerma elastic  
Cross Section

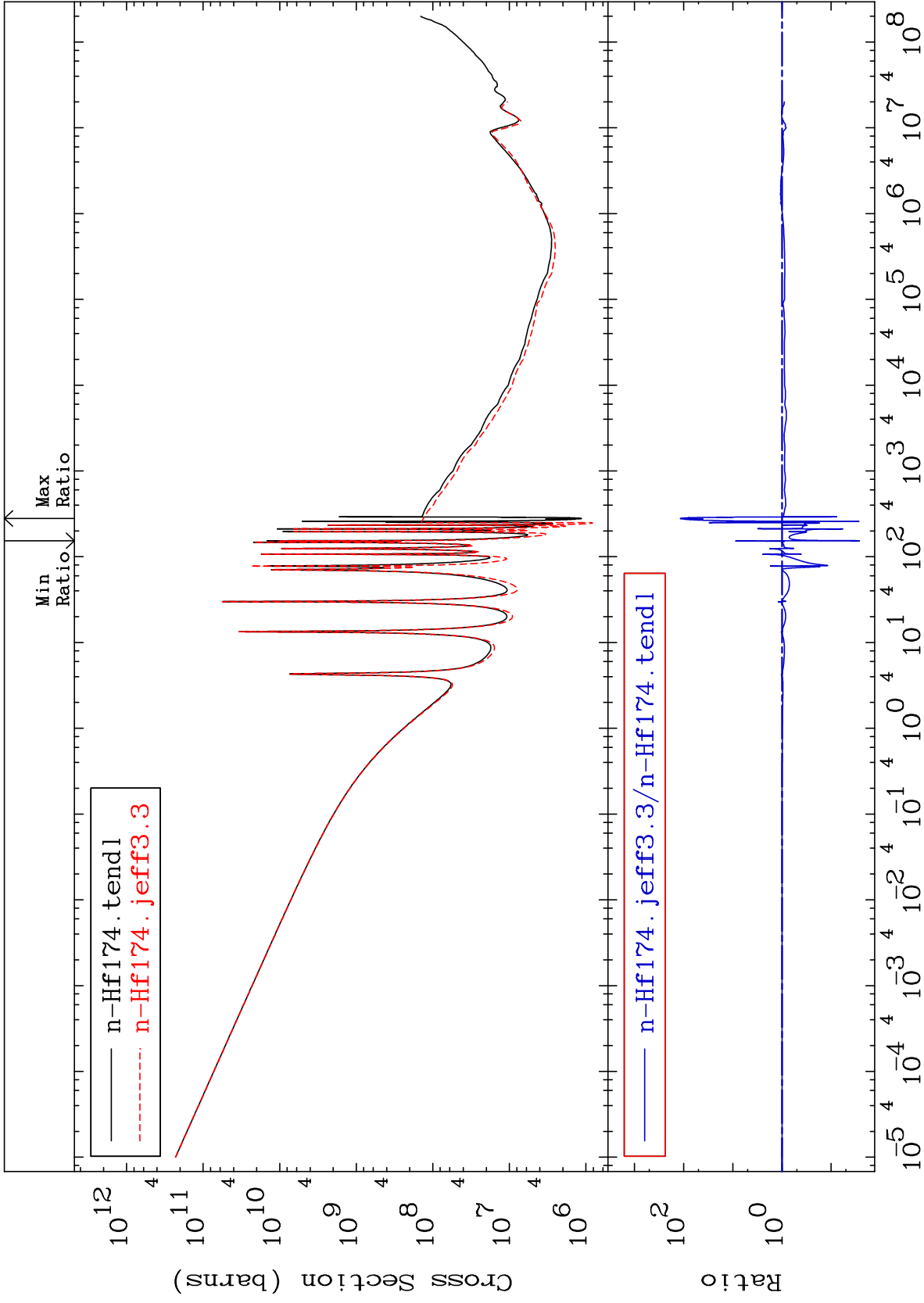
<sup>72</sup>Hf-174  
-99.99 To 9999. %



60

Incident Energy (eV)

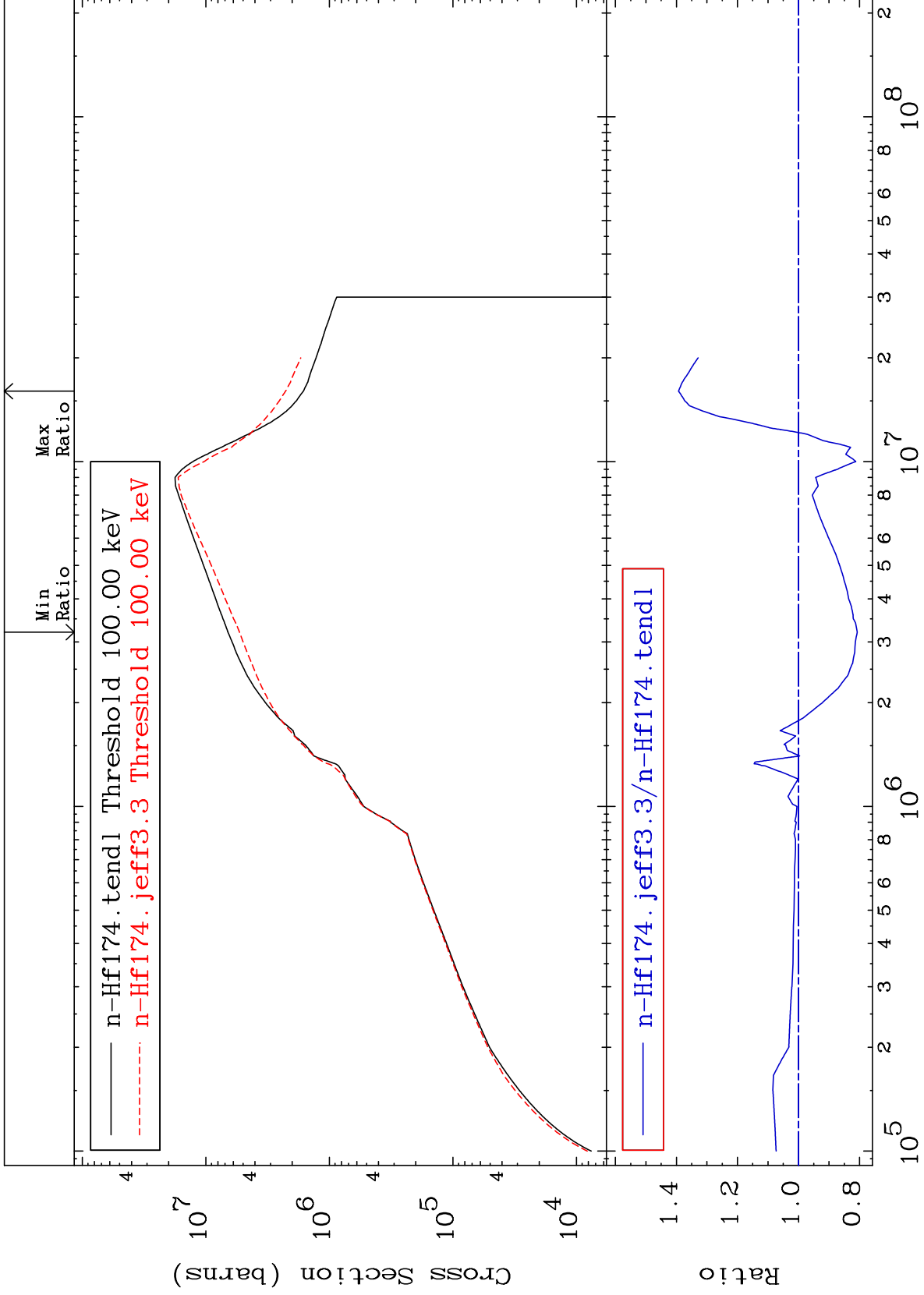
<sup>72</sup>Hf-174



MAT 7225

Kerma inelastic (mt51-91)  
Cross Section

72-Hf-174  
-19.26 To 39.29 %



62

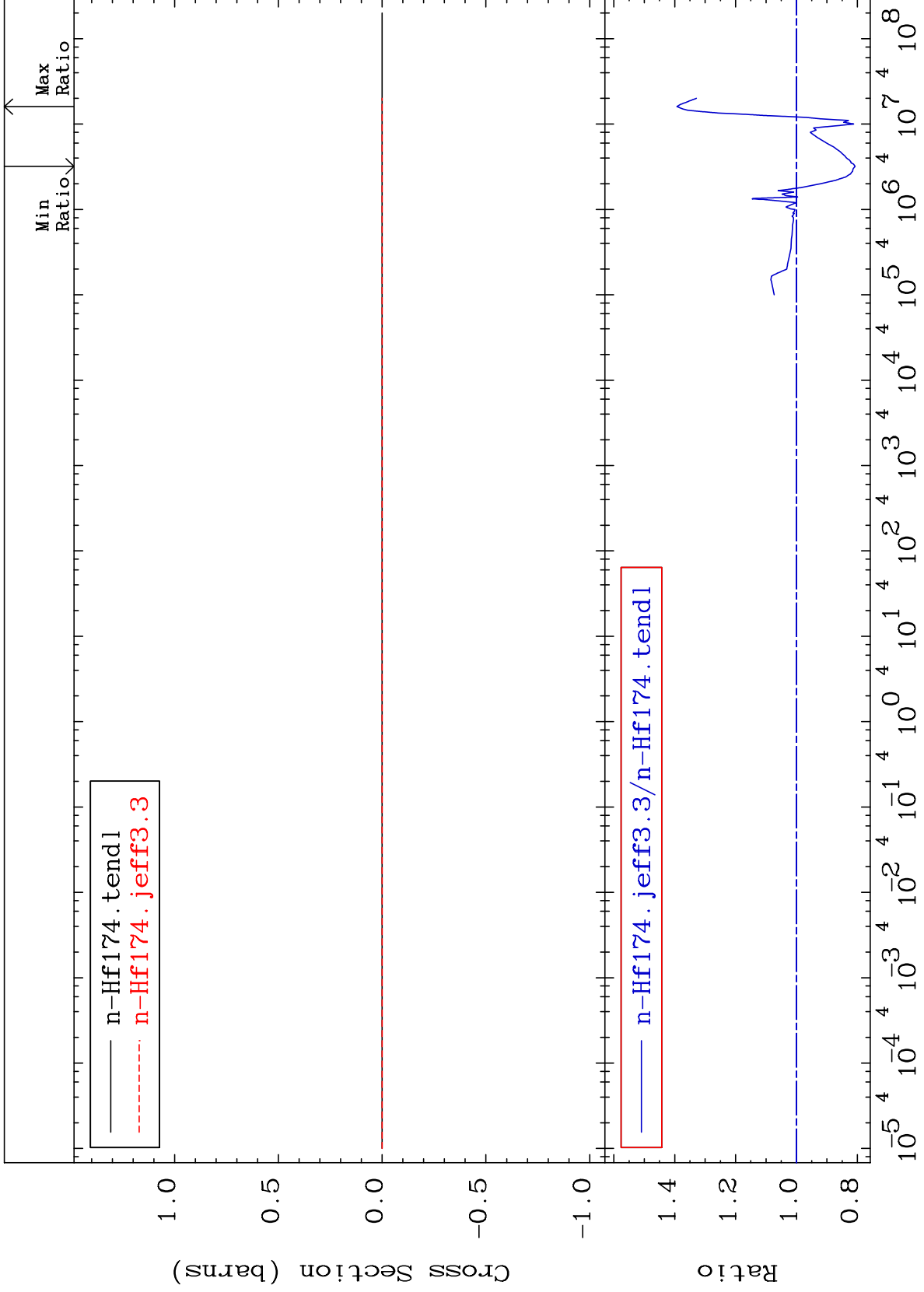
Incident Energy (eV)

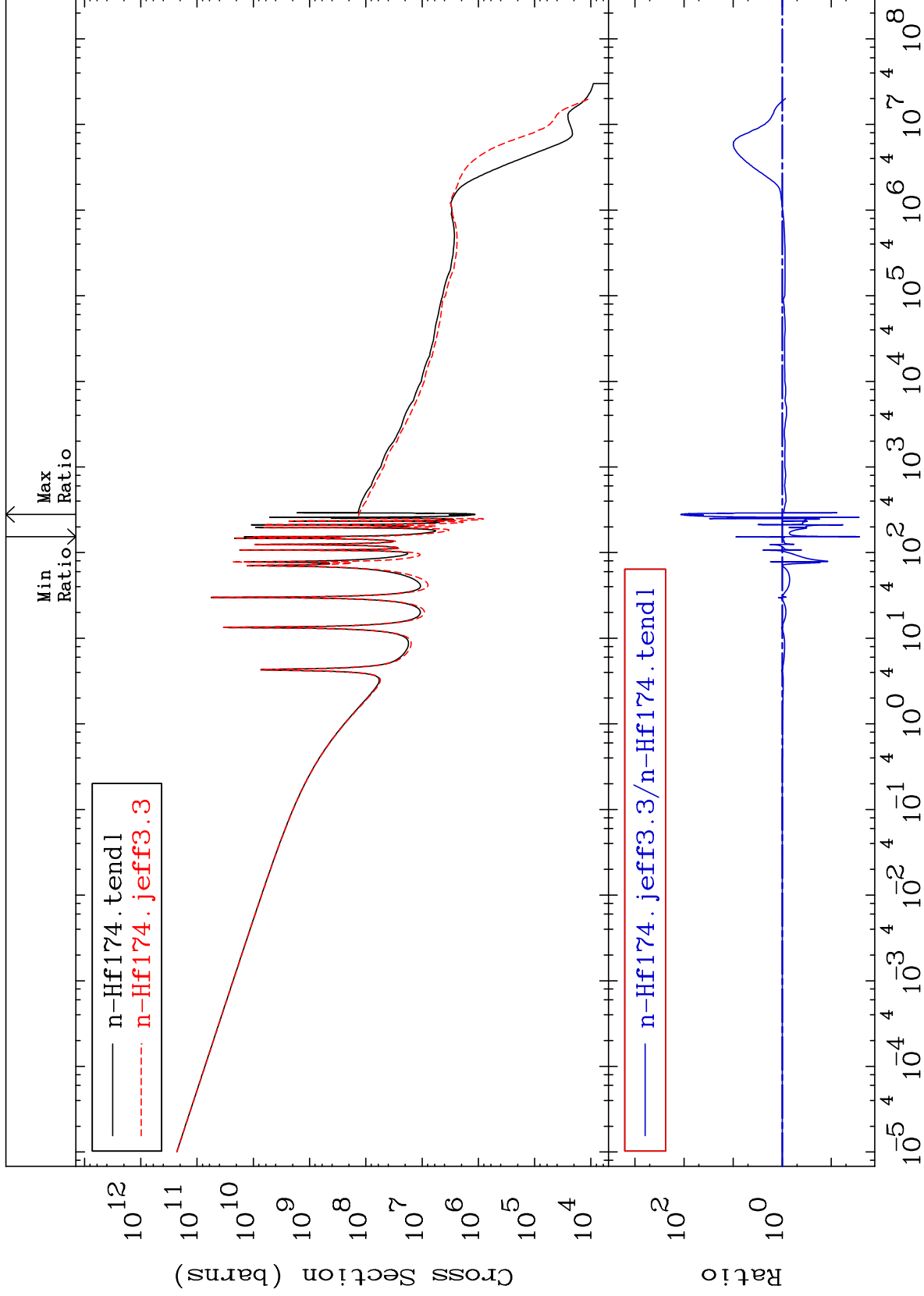
72-Hf-174

MAT 7225

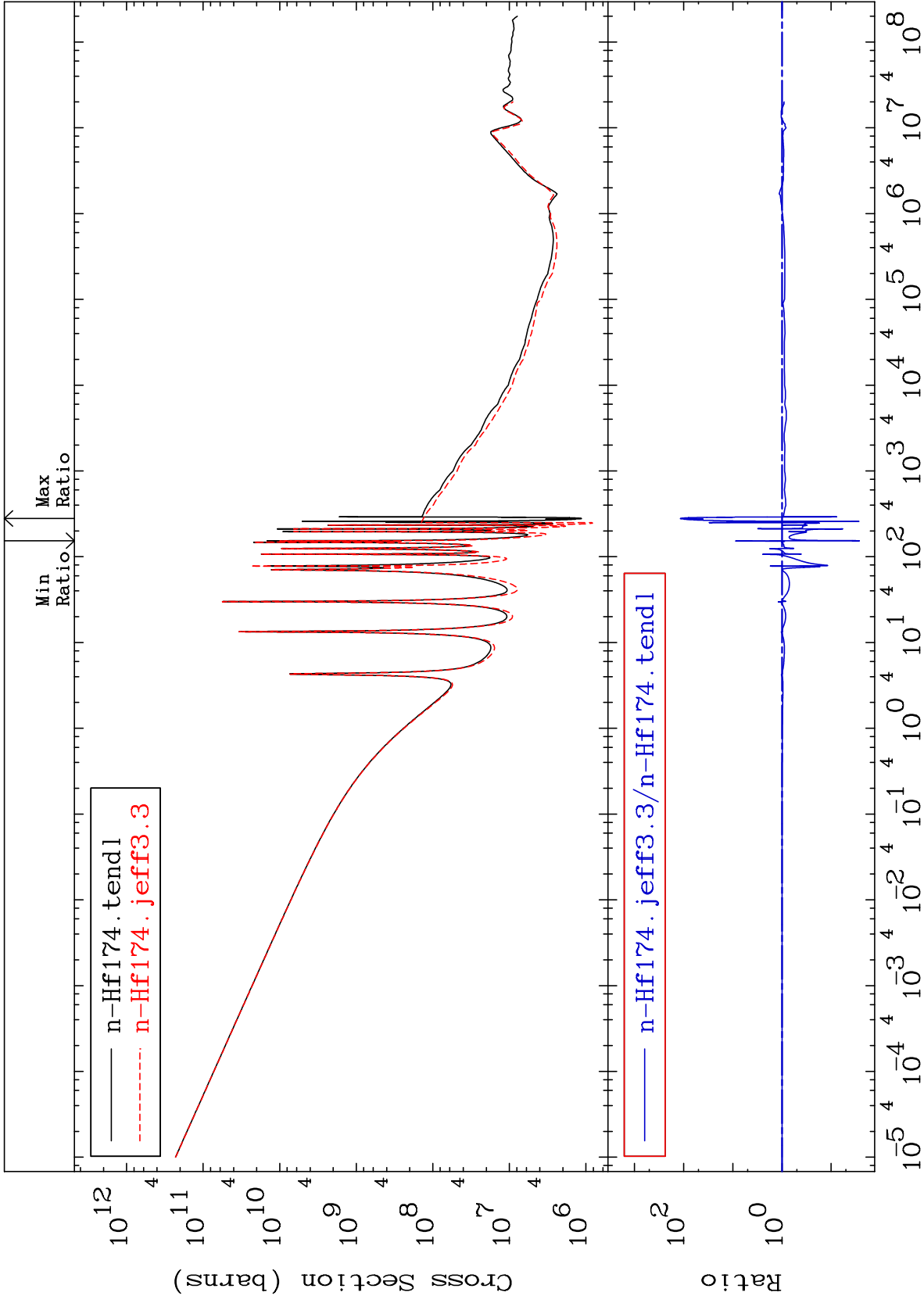
Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

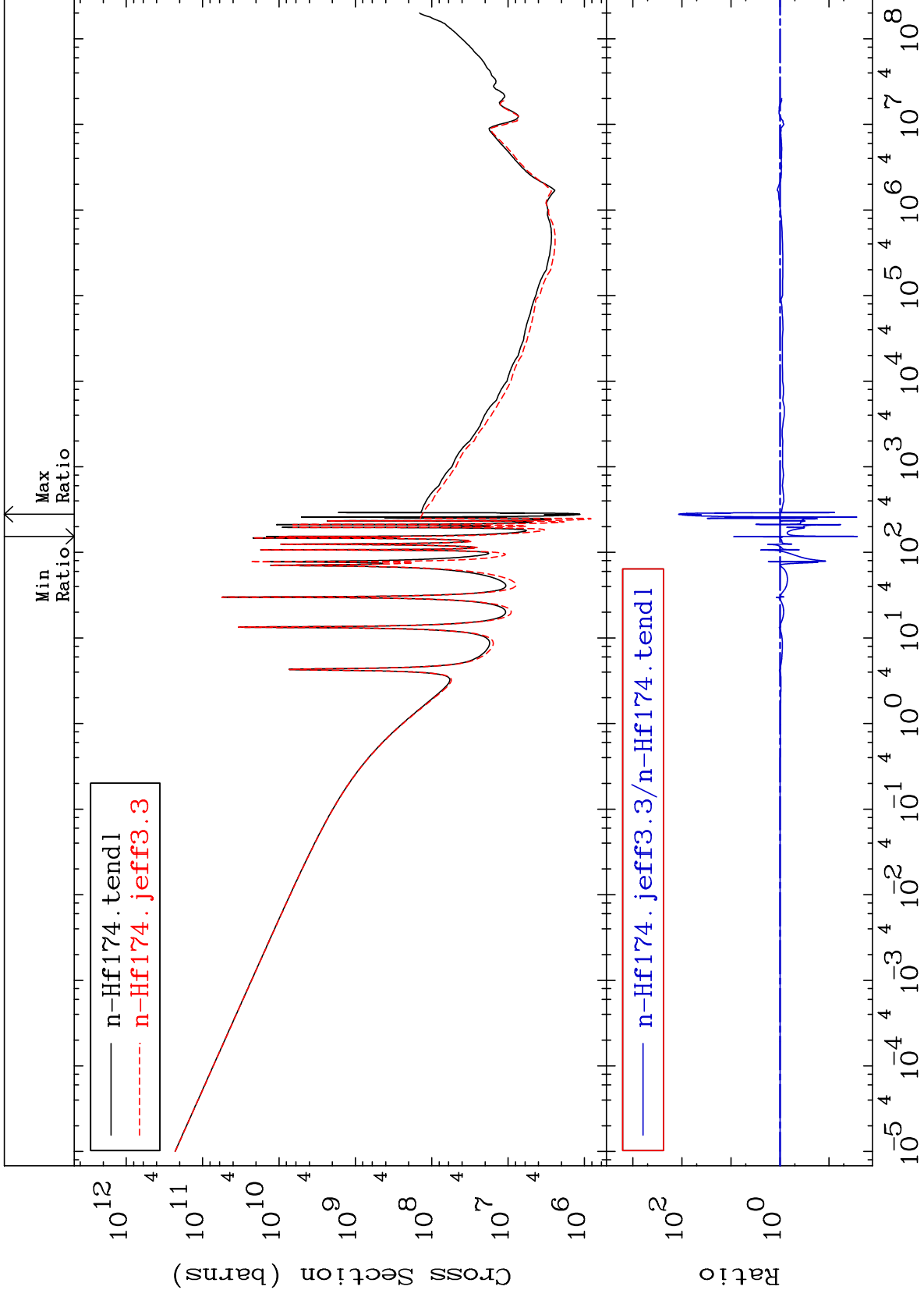
72-Hf-174  
-19.26 To 39.29 %

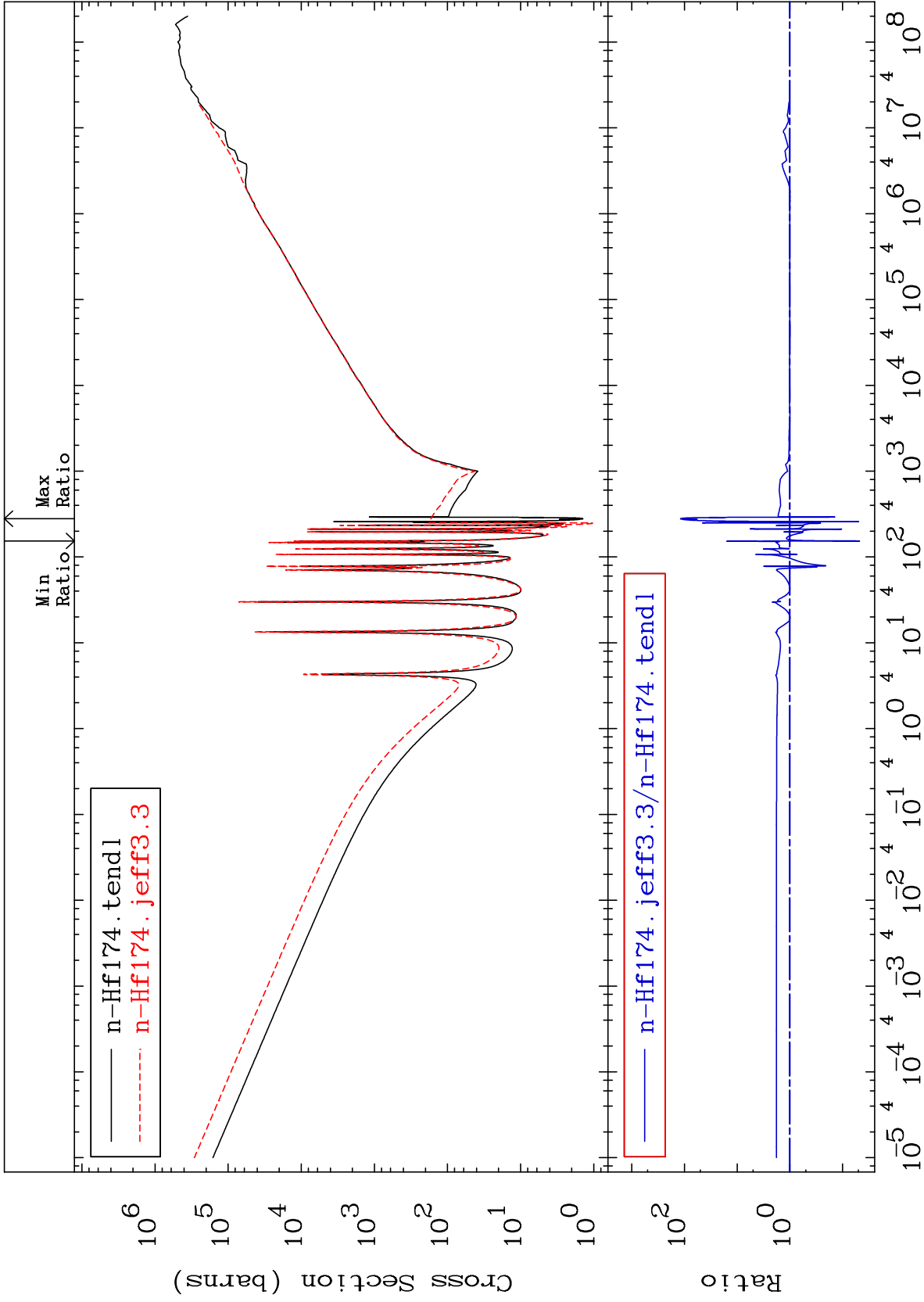


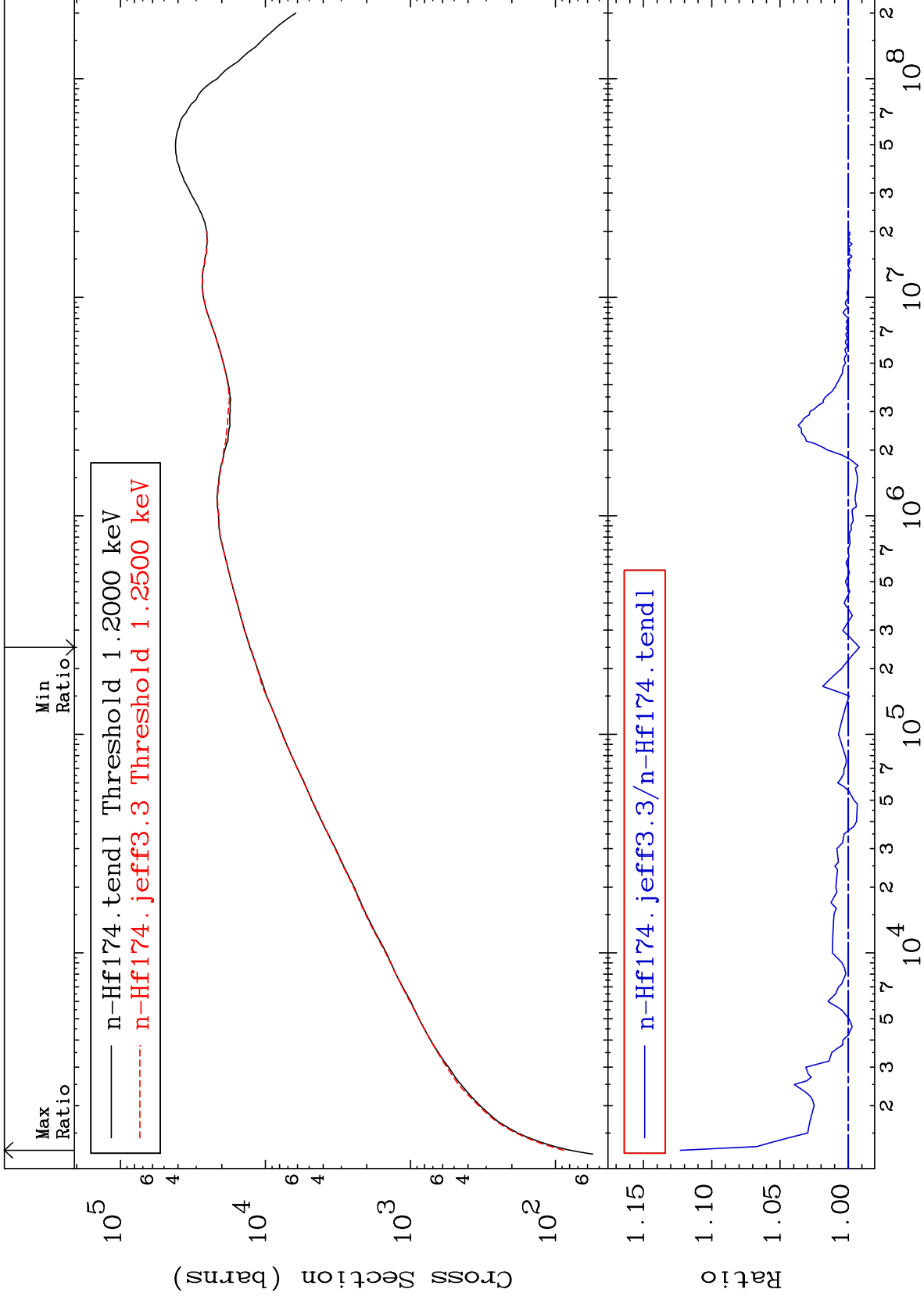








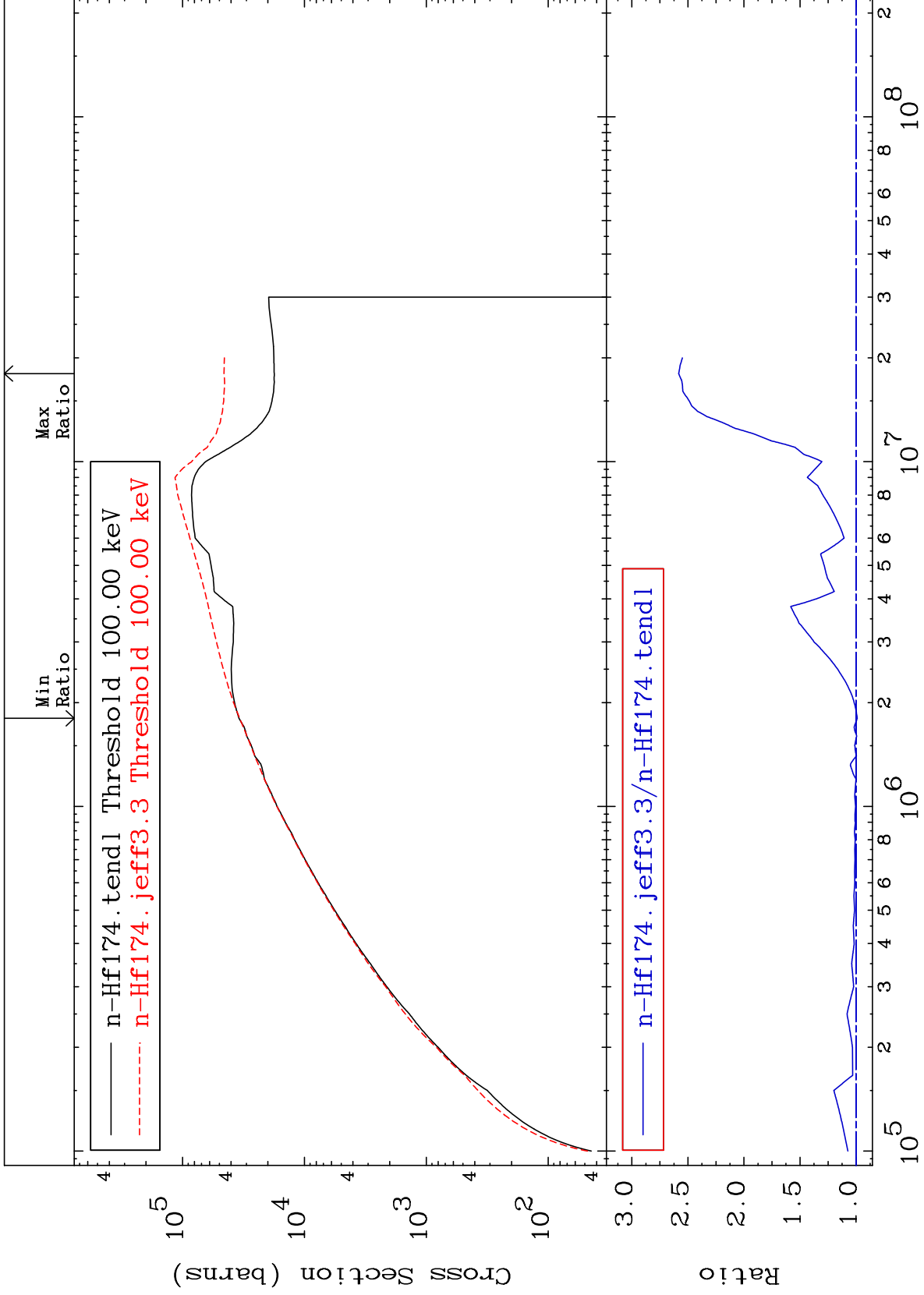




MAT 7225

Dpa inelastic (mt51-91)  
Cross Section

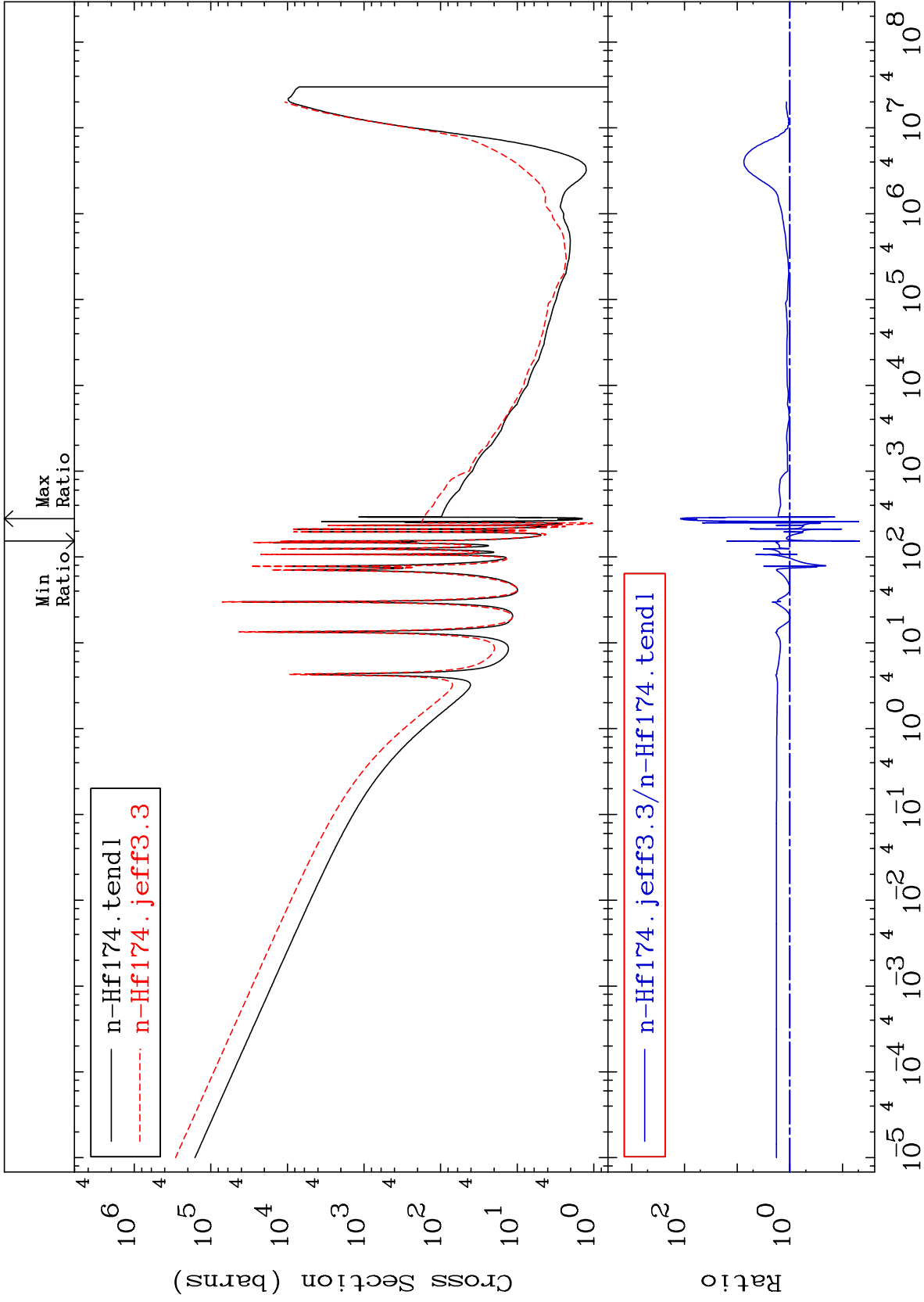
72-Hf-174  
-1.065 To 158.3 %

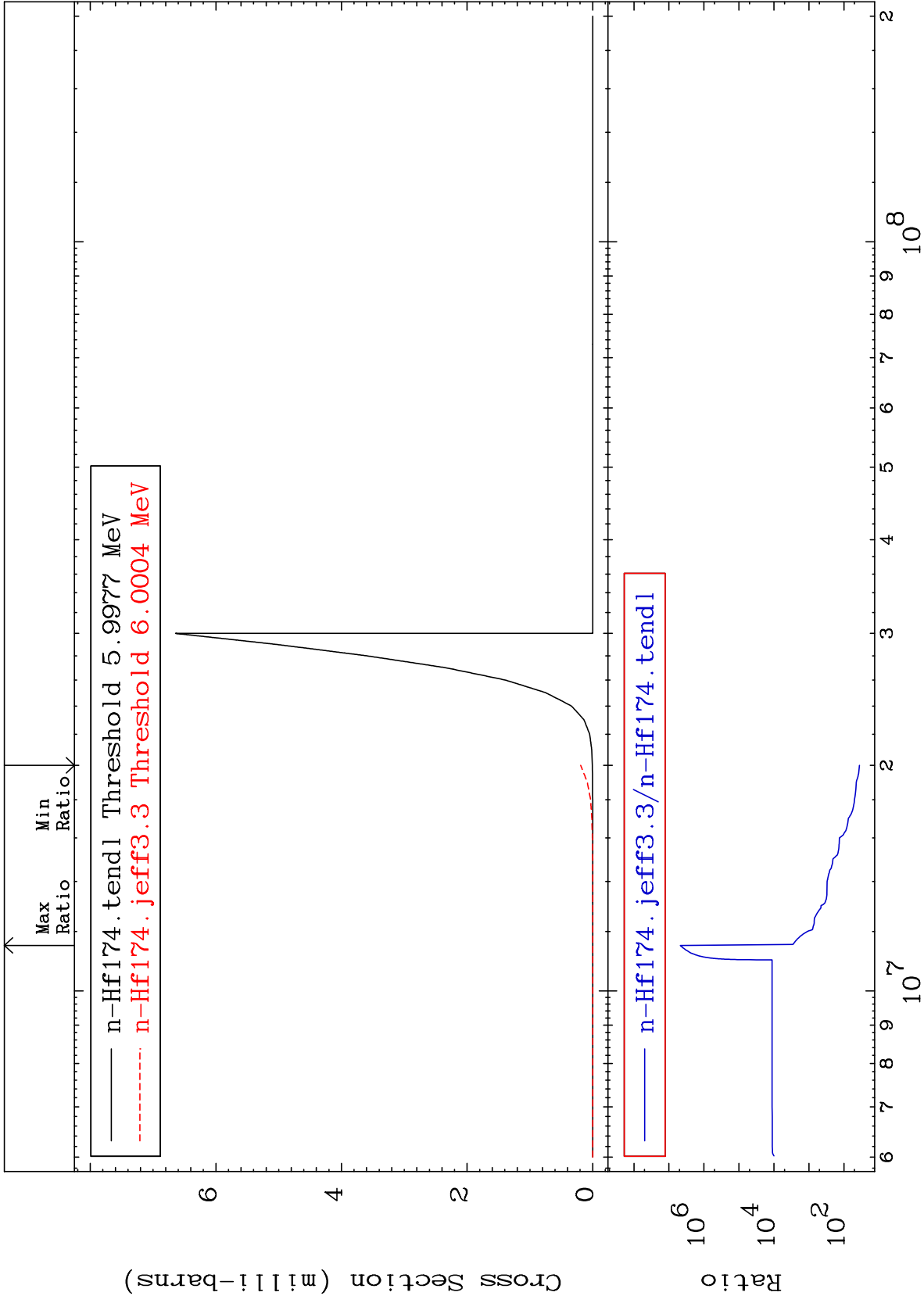


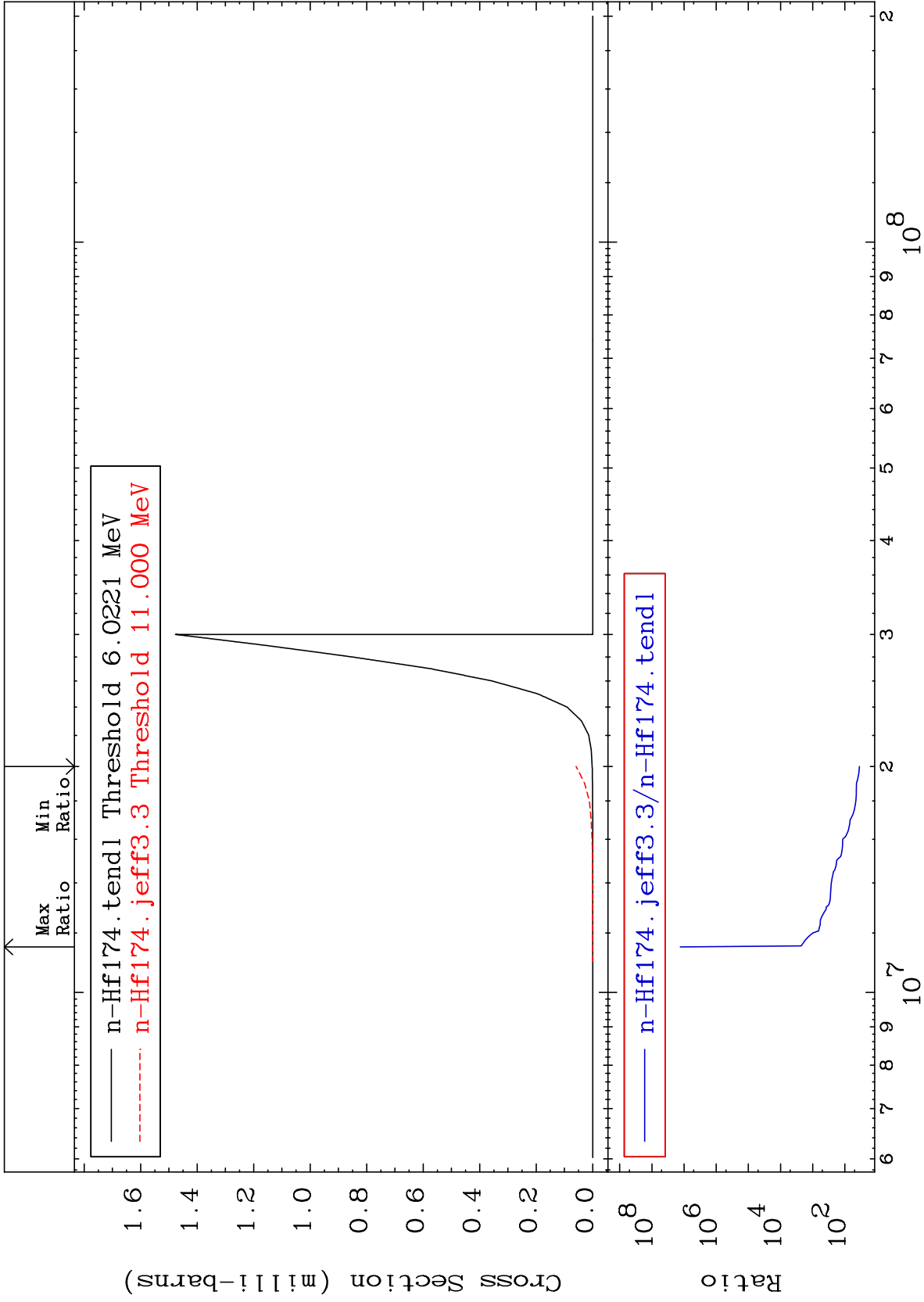
69

Incident Energy (eV)

72-Hf-174







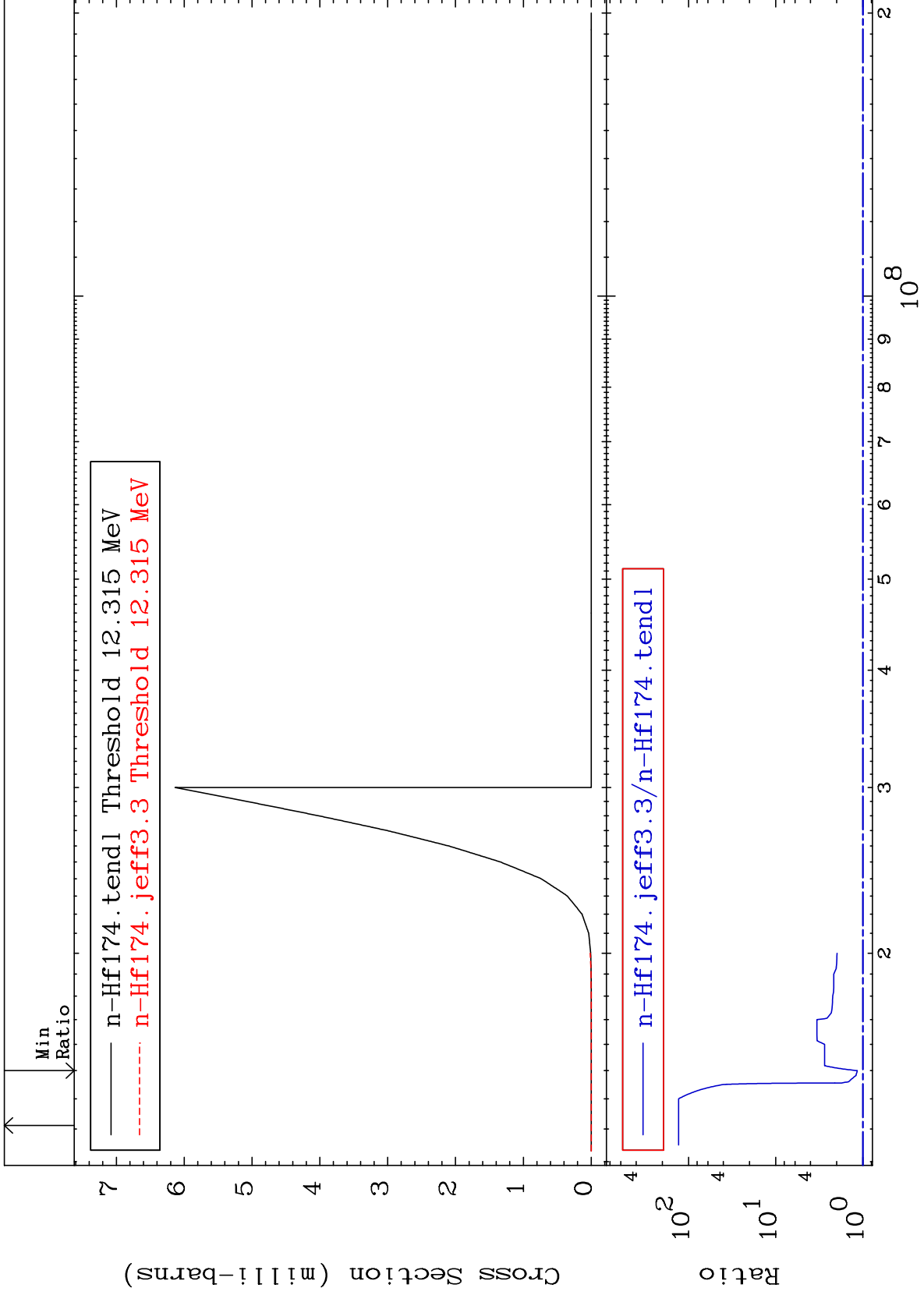


MAT 7225

(n, n') d:71-Lu-172g

72-Hf-174

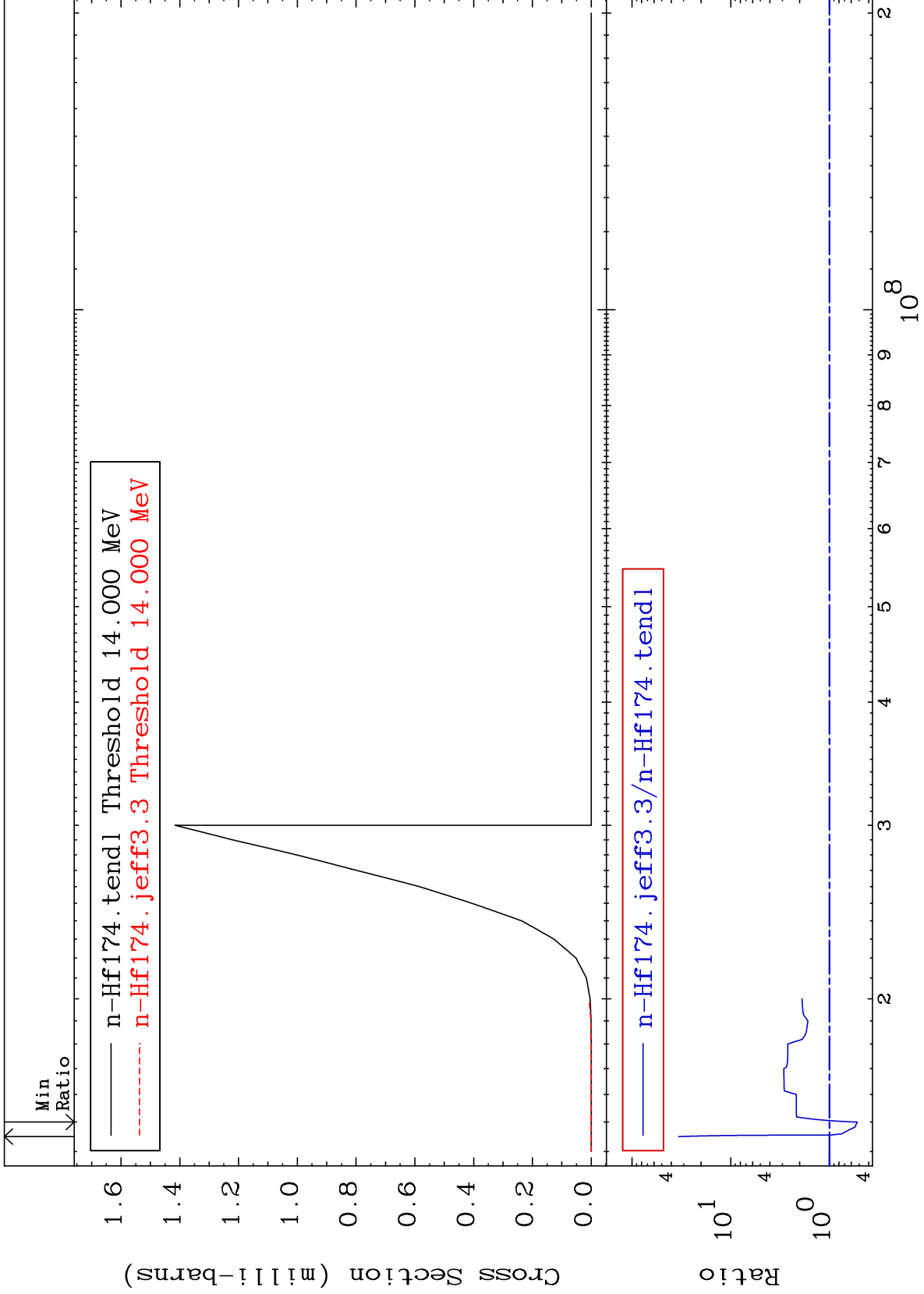
Radionuclide Production Cross Section 16.29 To 9999. %



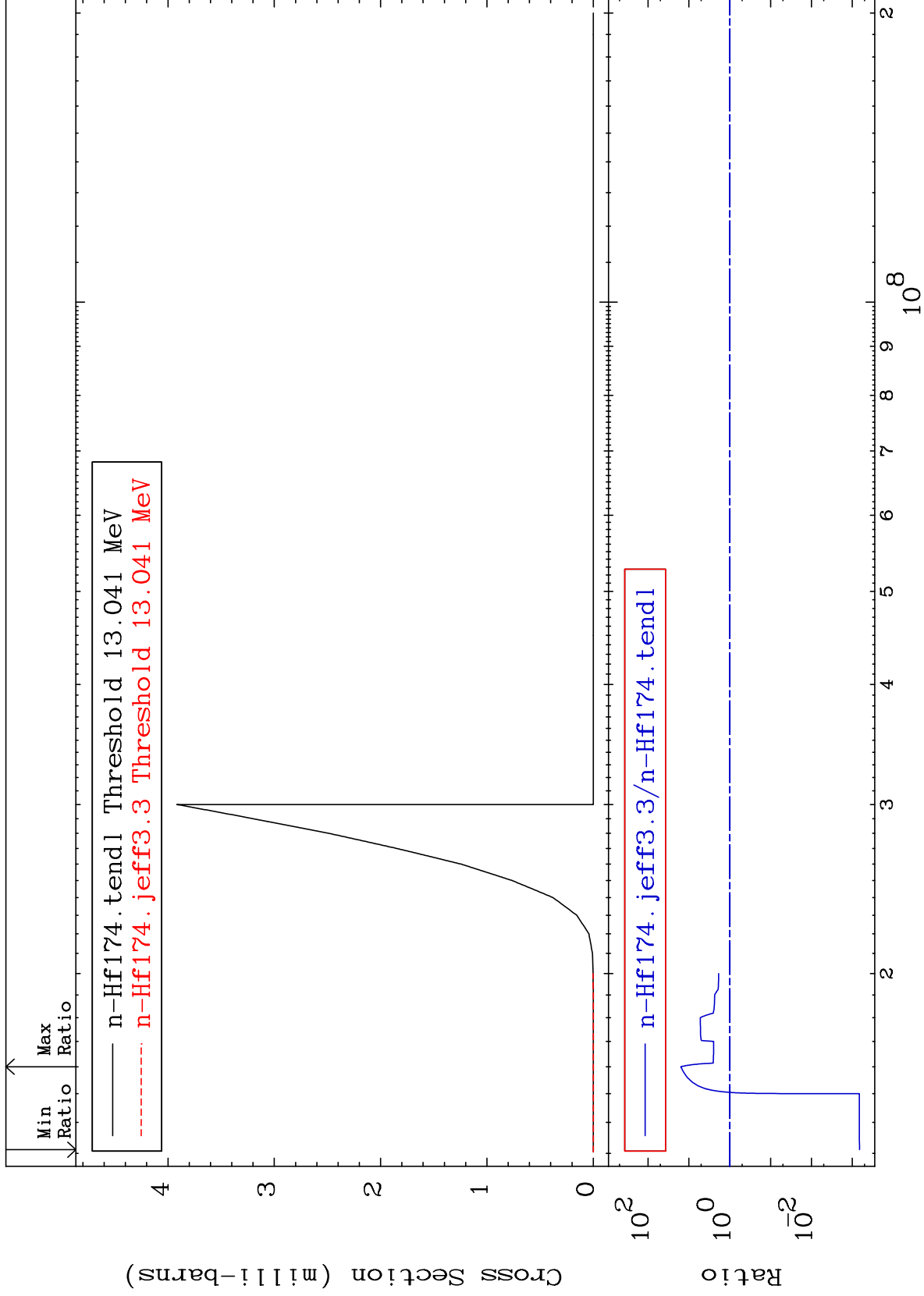
73

Incident Energy (eV)

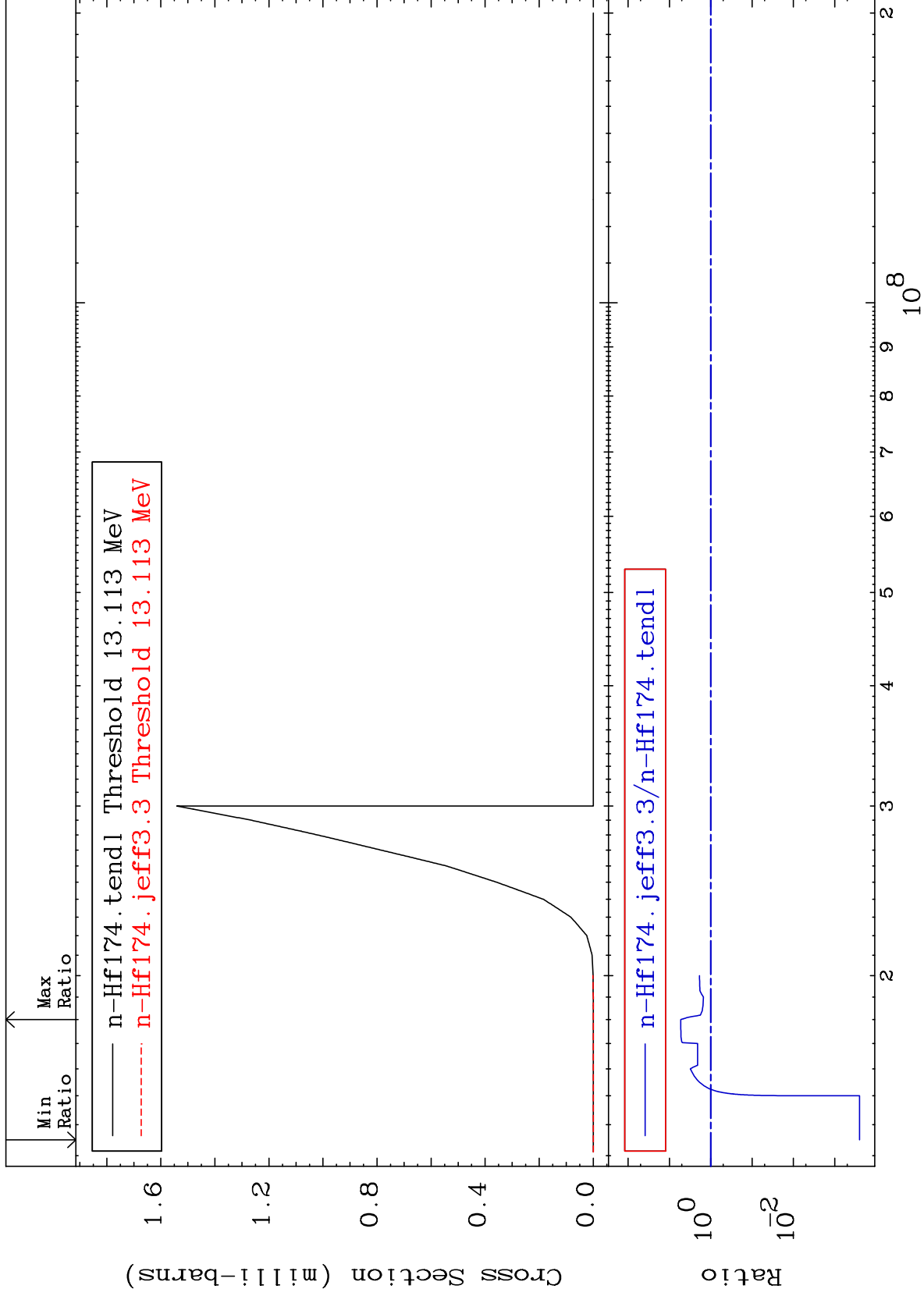
72-Hf-174

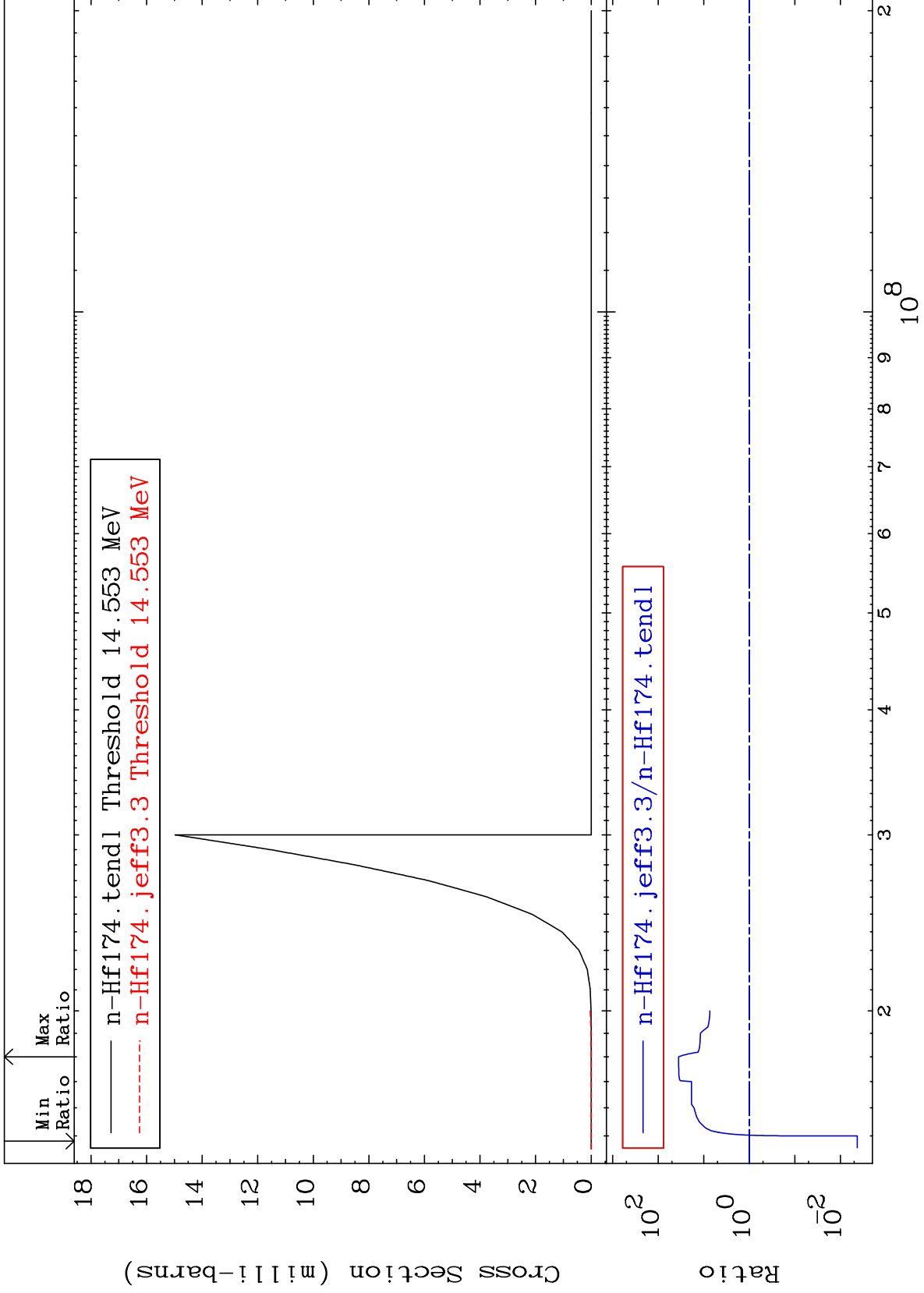


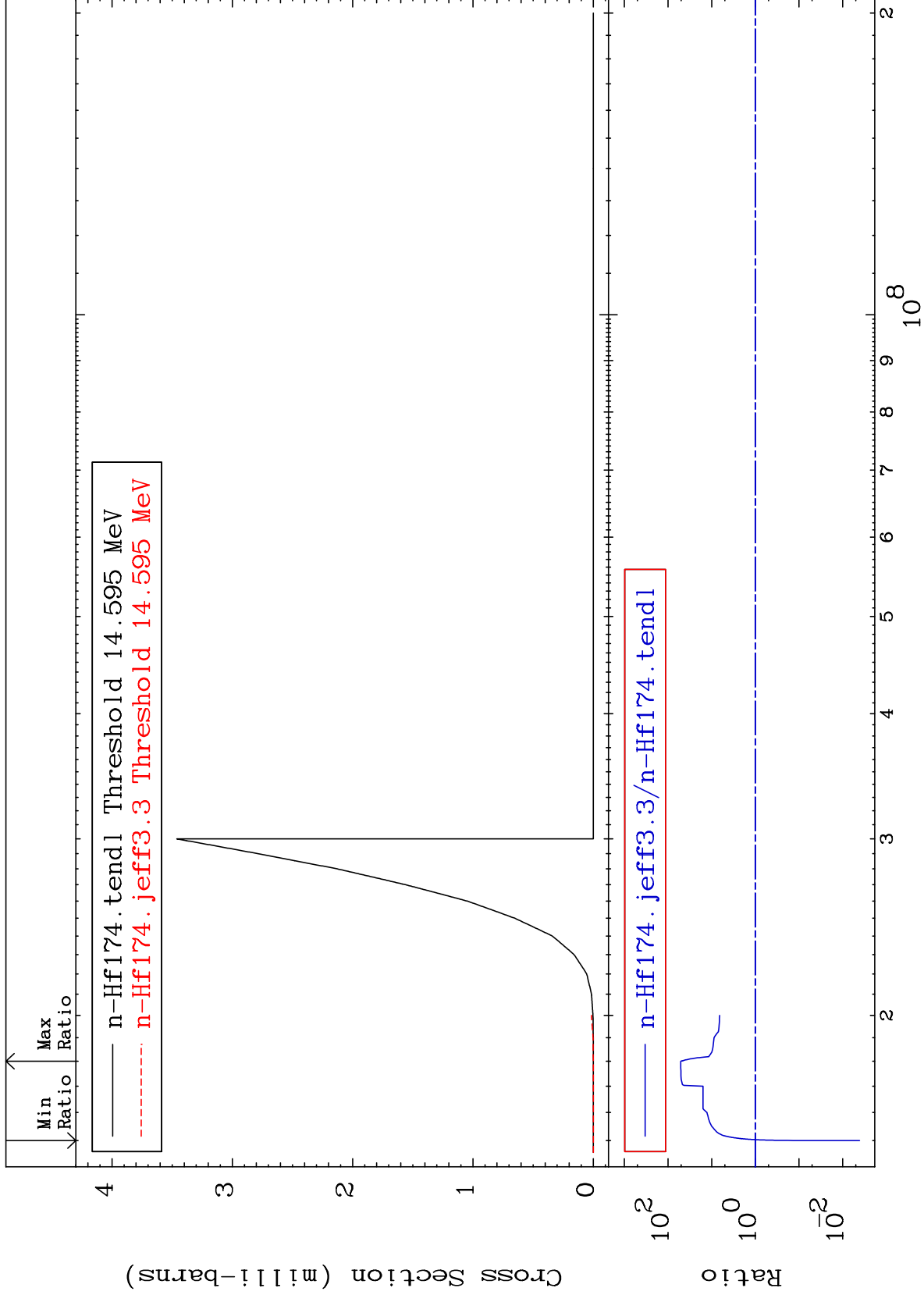
Radionuclide Production Cross Section -99.93 To 1482. %



Radionuclide Production Cross Section -99.97 To 431.2 %





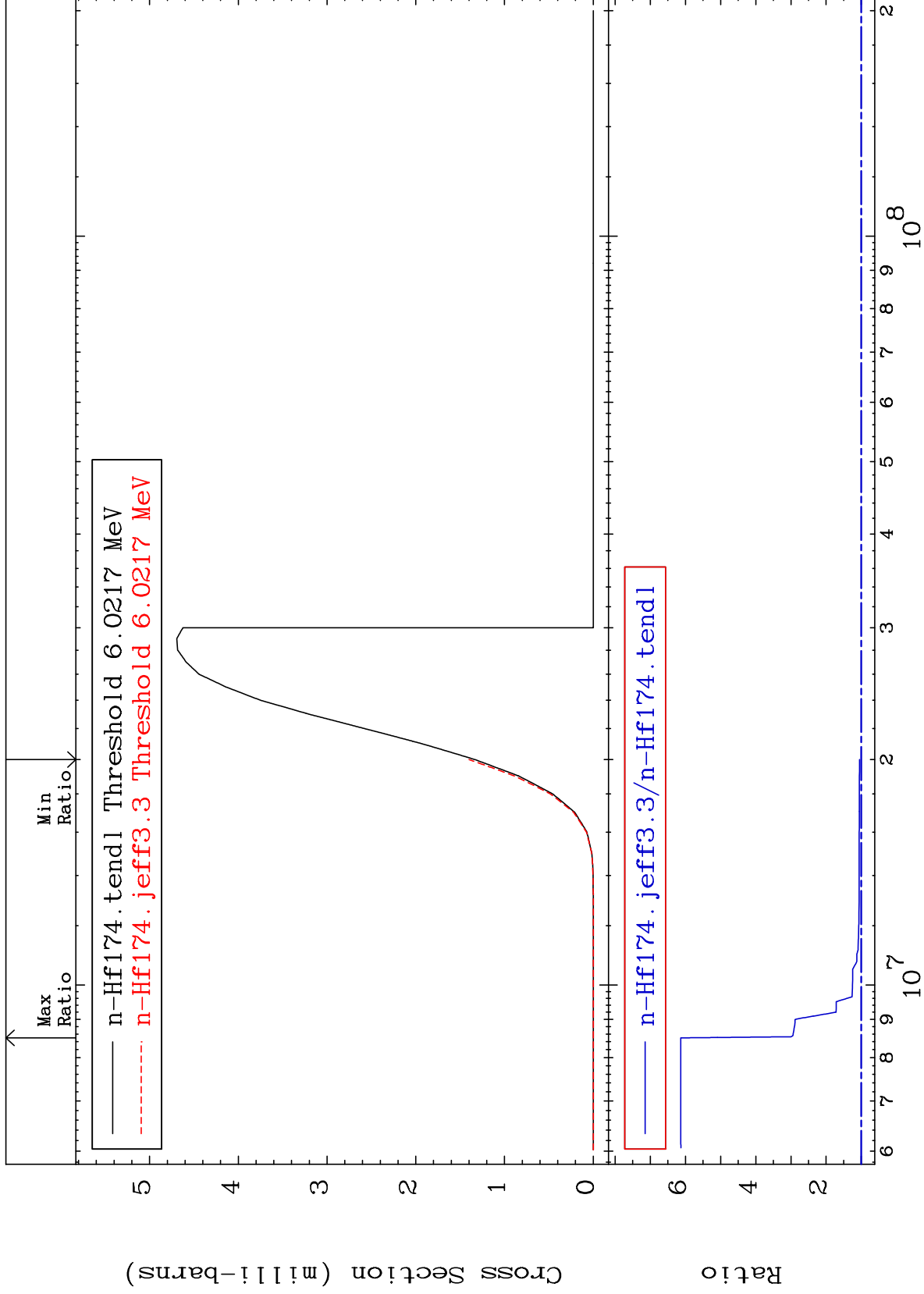


MAT 7225

(n, t) : 71-Lu-172g

72-Hf-174

Radionuclide Production Cross Section 4.988 To 513.3 %



79

72-Hf-174

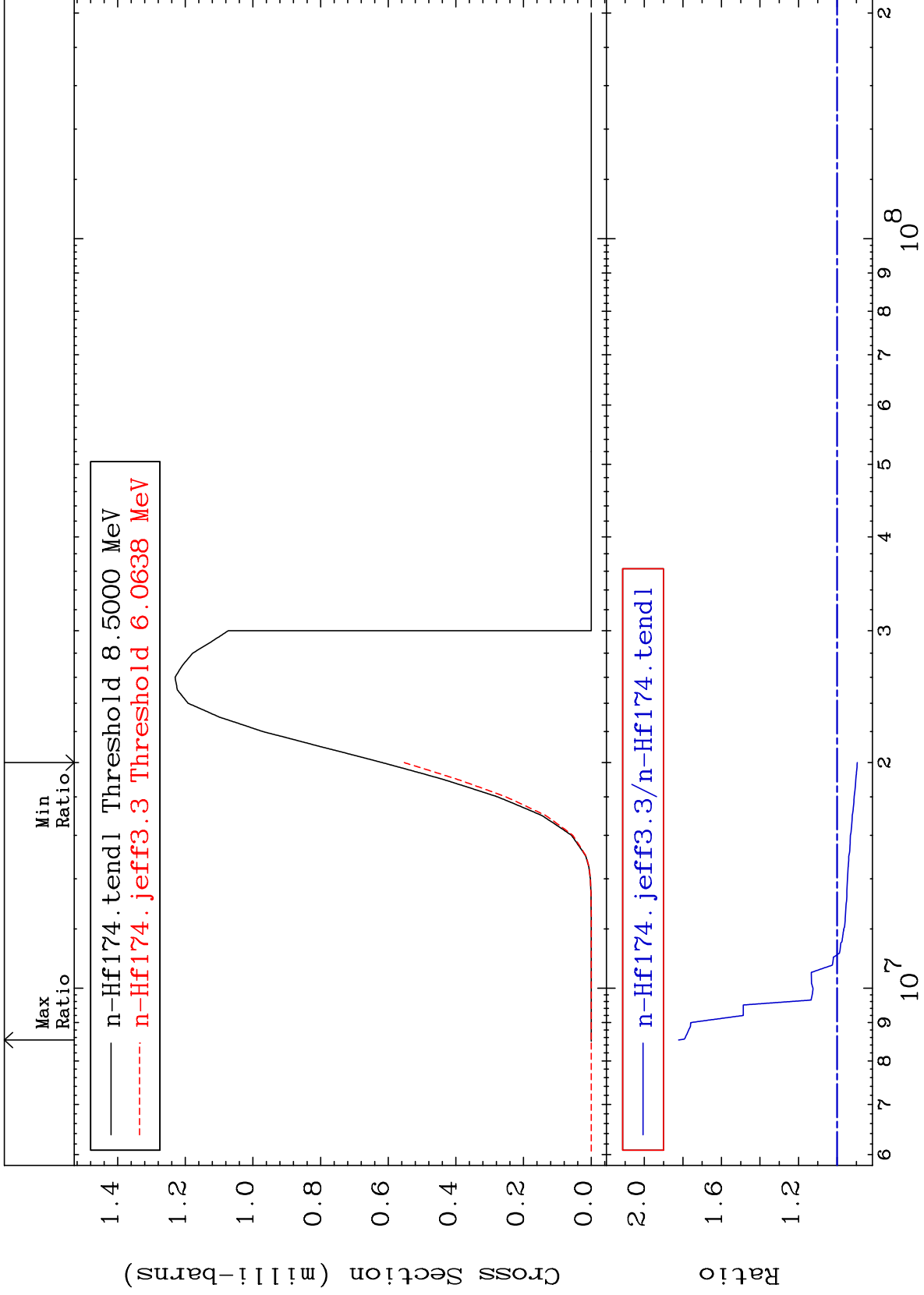
72-Hf-174

MAT 7225

(n, t) : 71-Lu-172m1

72-Hf-174

Radionuclide Production Cross Section -10.46 To 82.21 %



80

Incident Energy (eV)

72-Hf-174