

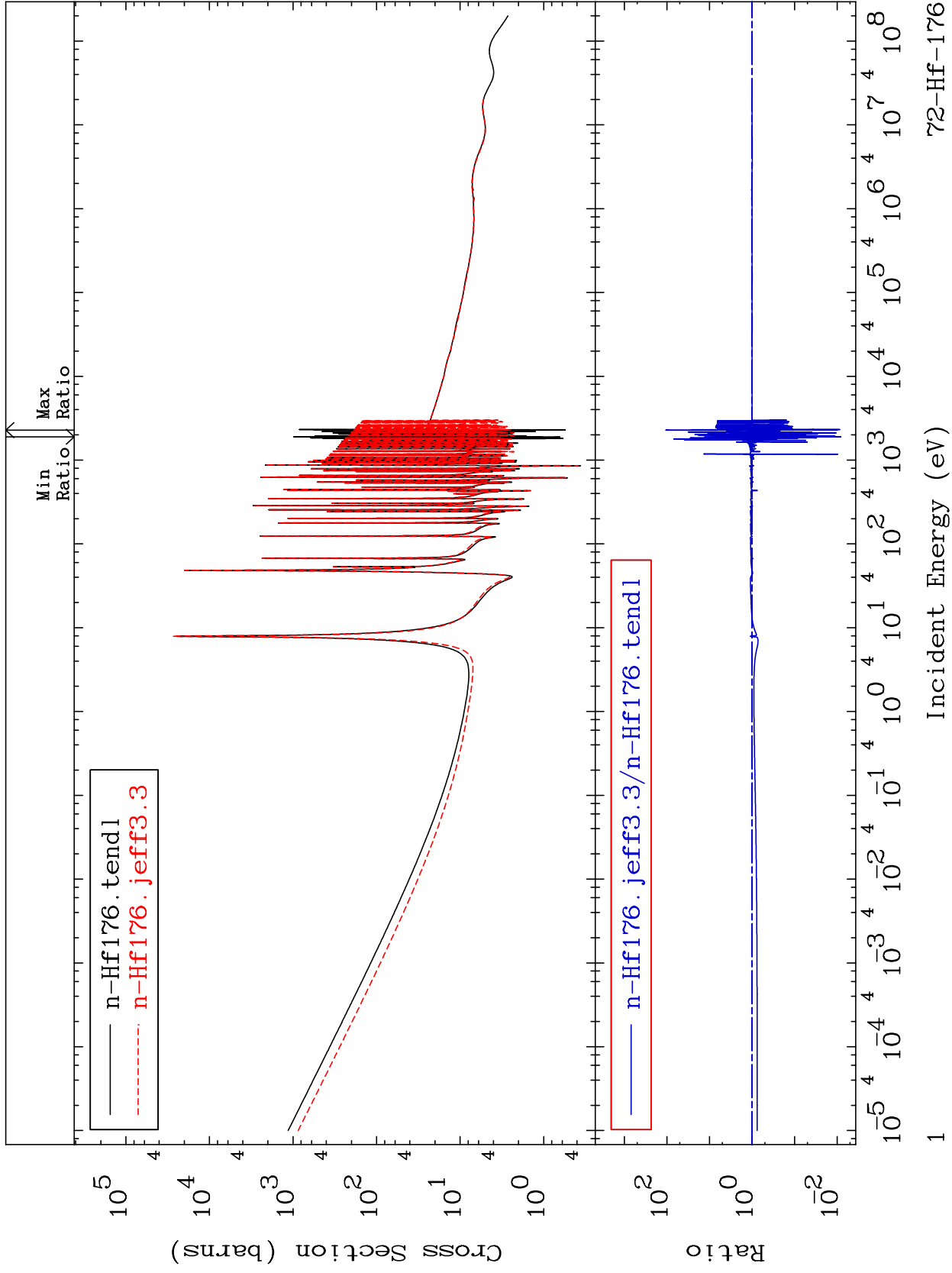
MAT 7231

Total

72-Hf-176

Cross Section

-99.18 To 9999. %



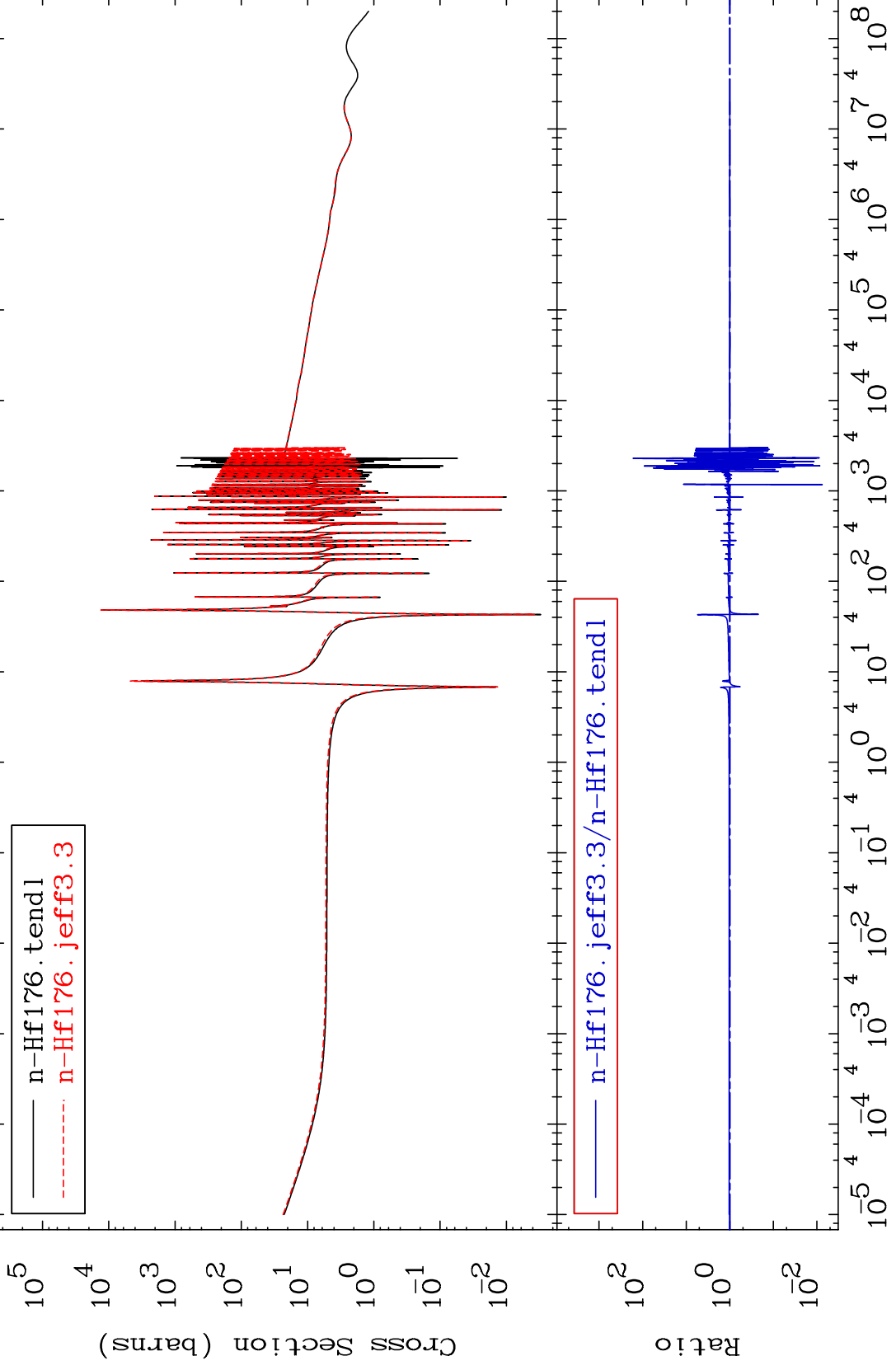
Incident Energy (eV)

72-Hf-176

MAT 7231

Elastic  
Cross Section

72-Hf-176  
-99.24 To 9999. %



2

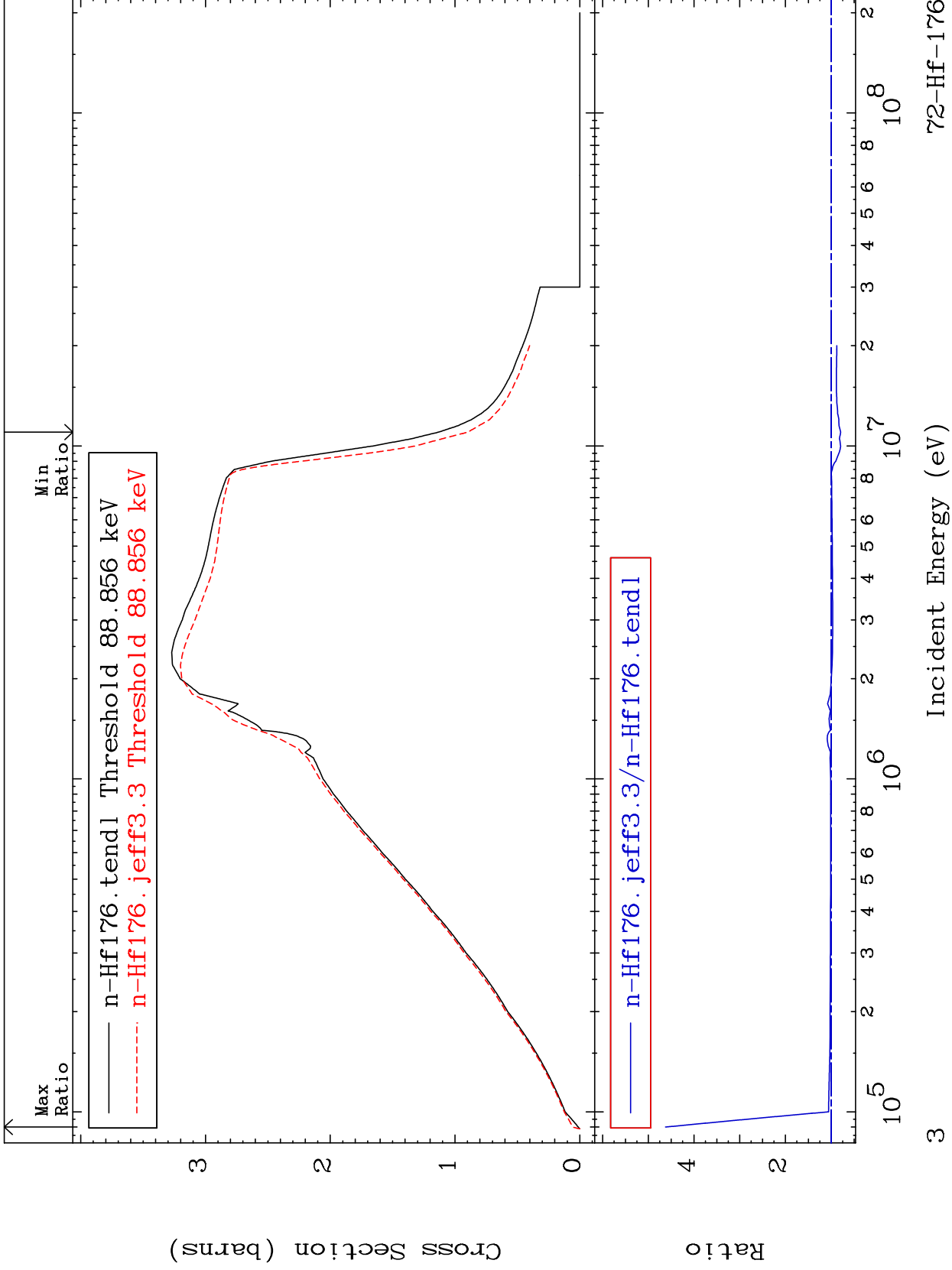
Incident Energy (eV)

72-Hf-176

MAT 7231

Inelastic  
Cross Section

72-Hf-176  
-20.76 To 362.6 %



72-Hf-176

Incident Energy (eV)

3

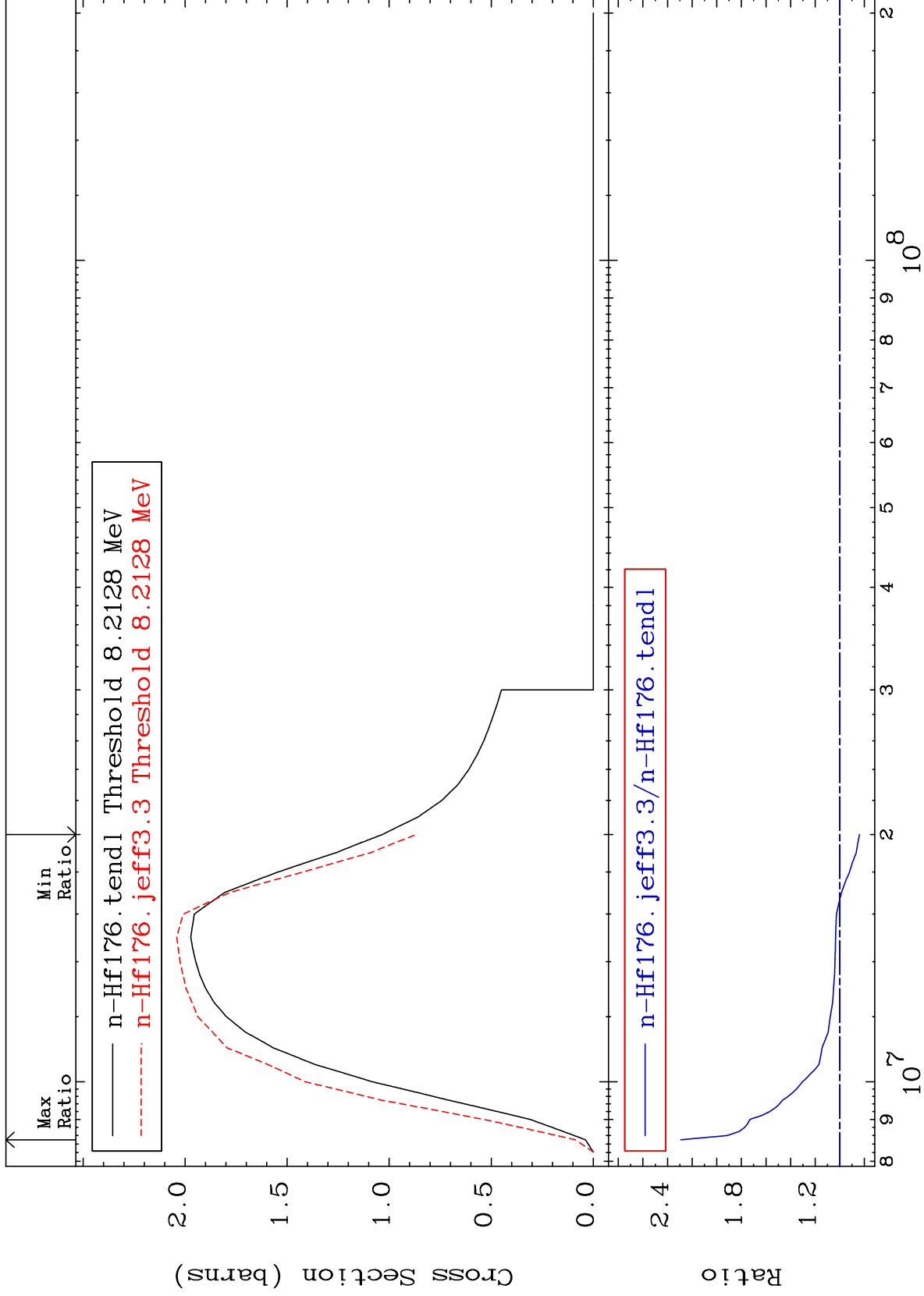
MAT 7231

(n,2n)

<sup>72</sup>Hf-176

Cross Section

-16.04 To 129.2 %



Incident Energy (eV)

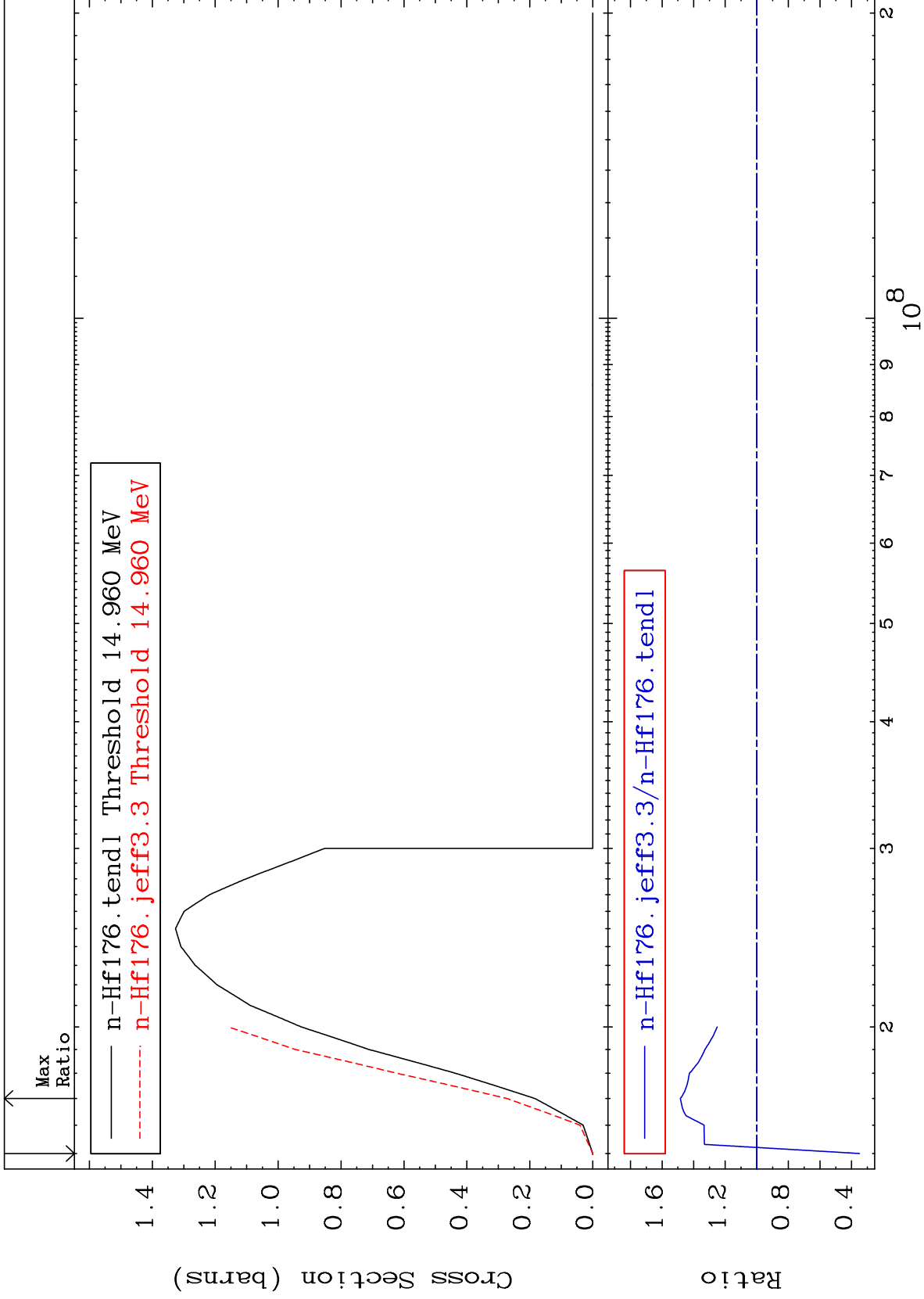
<sup>72</sup>Hf-176

4

MAT 7231

(n,3n)  
Cross Section

72-Hf-176  
-64.98 To 48.42 %



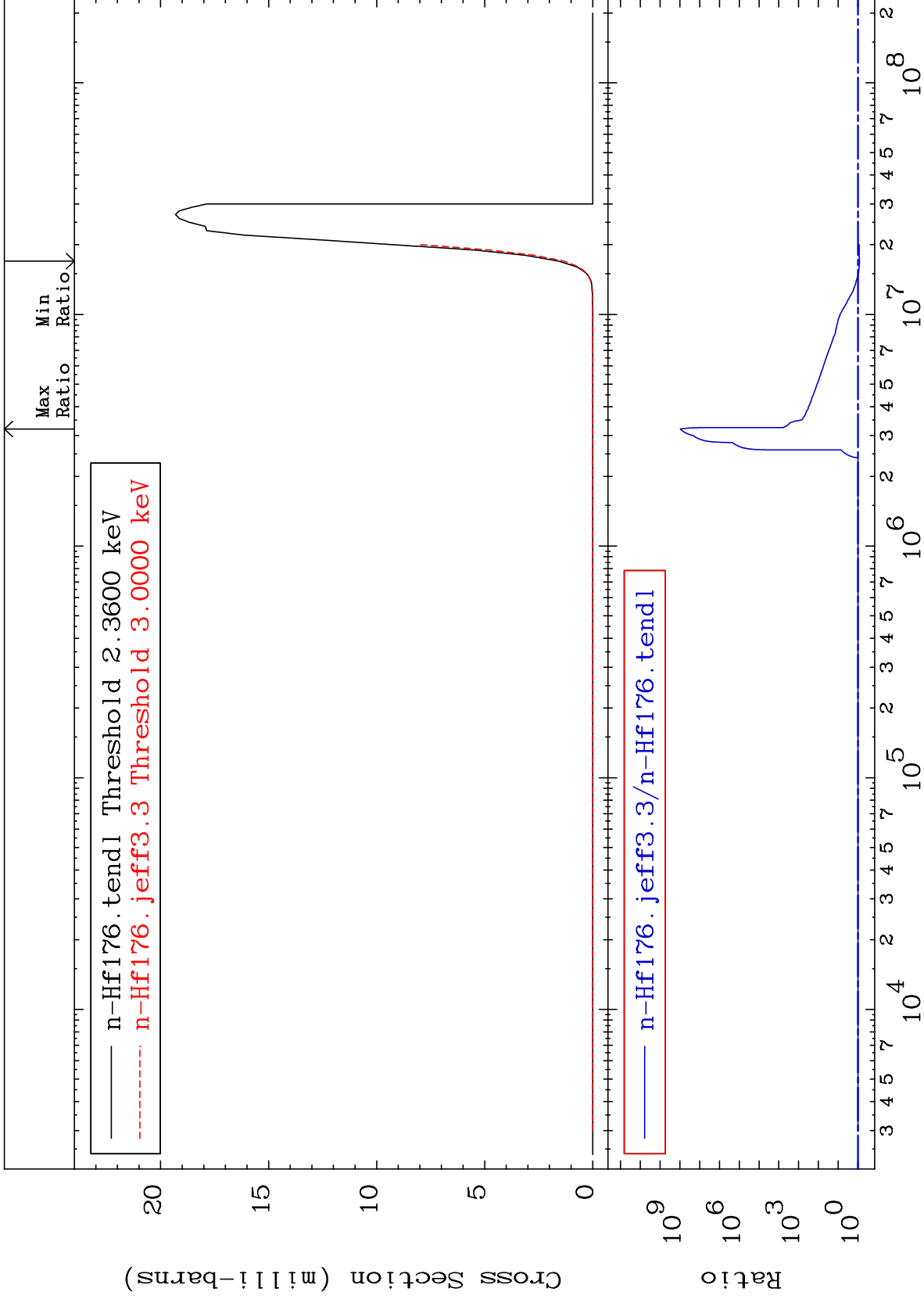
MAT 7231

(n,n')  $\alpha$

72-Hf-176

Cross Section

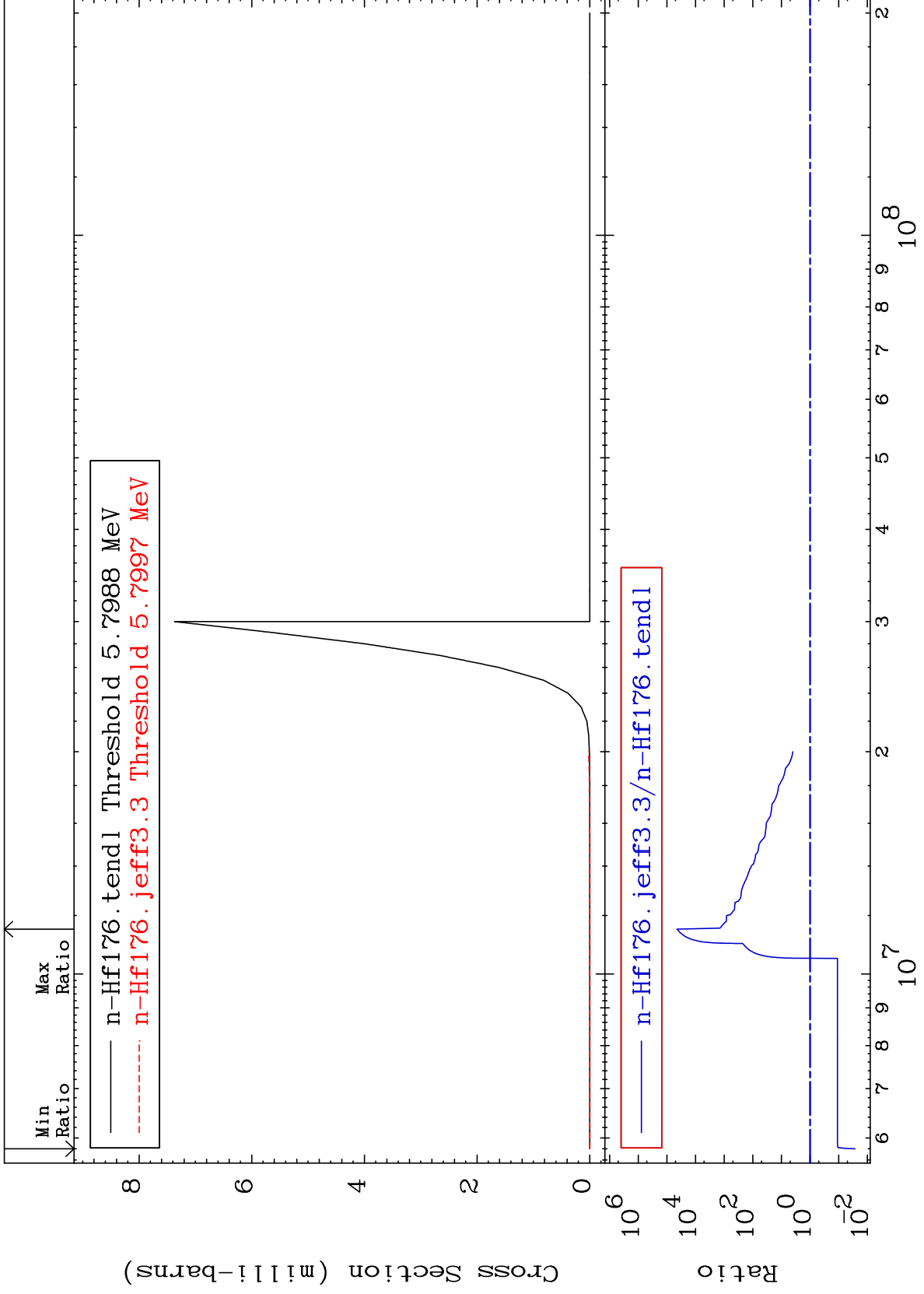
-15.35 To 9999. %



MAT 7231

(n,2n)  $\alpha$   
Cross Section

72-Hf-176  
-97.31 To 9999. %



7

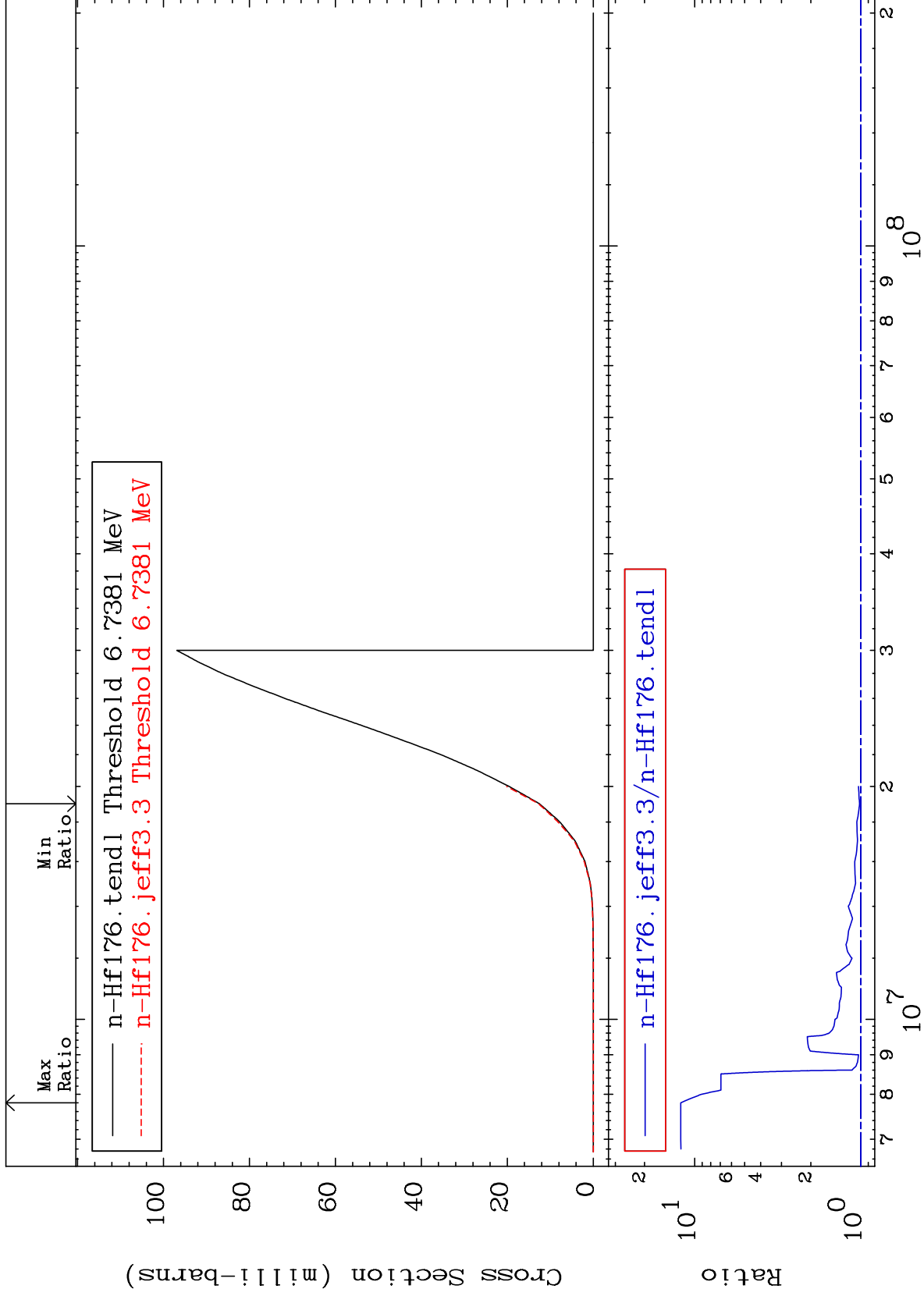
Incident Energy (eV)

72-Hf-176

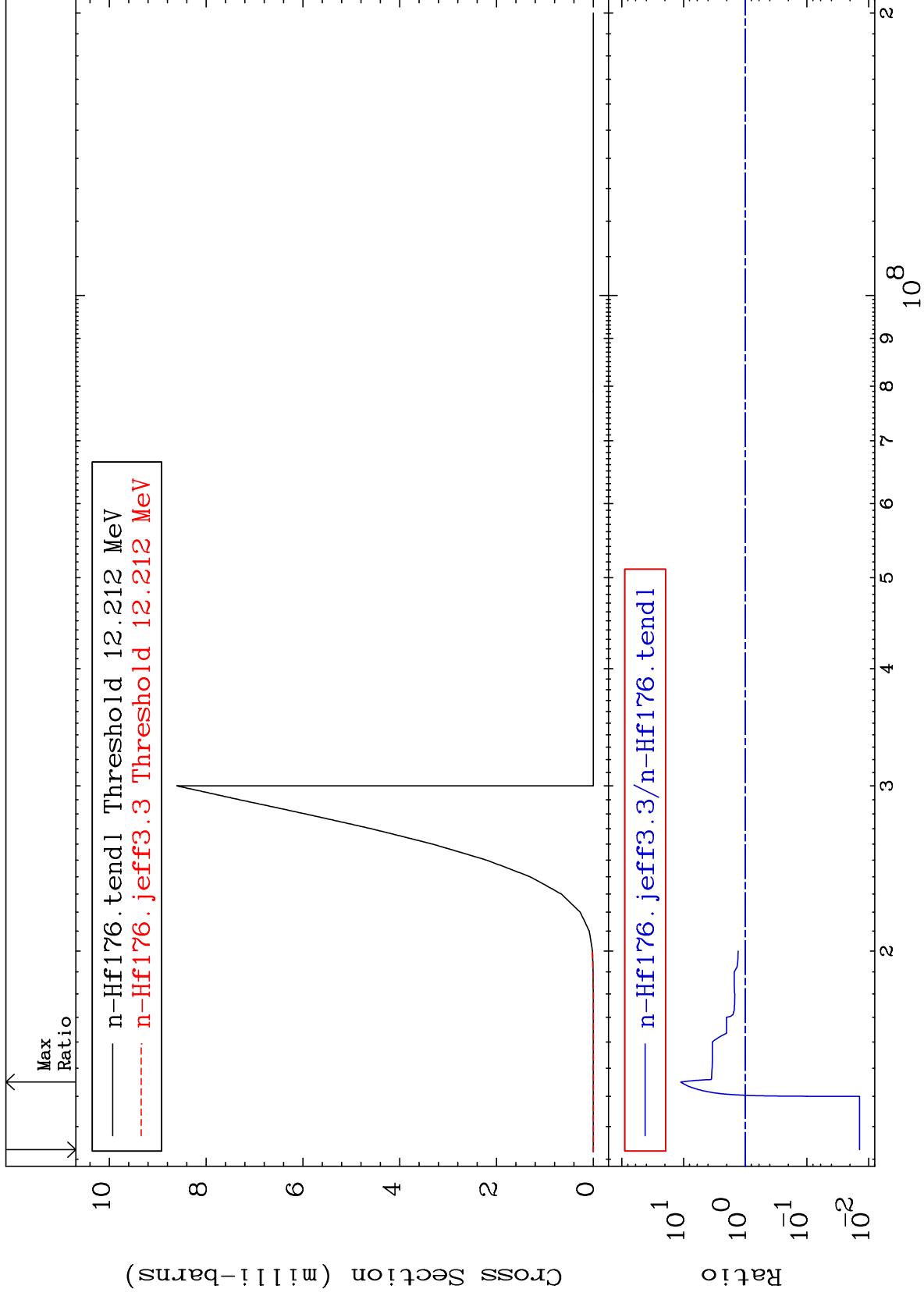
MAT 7231

(n,n') p  
Cross Section

72-Hf-176  
1.681 To 1111. %



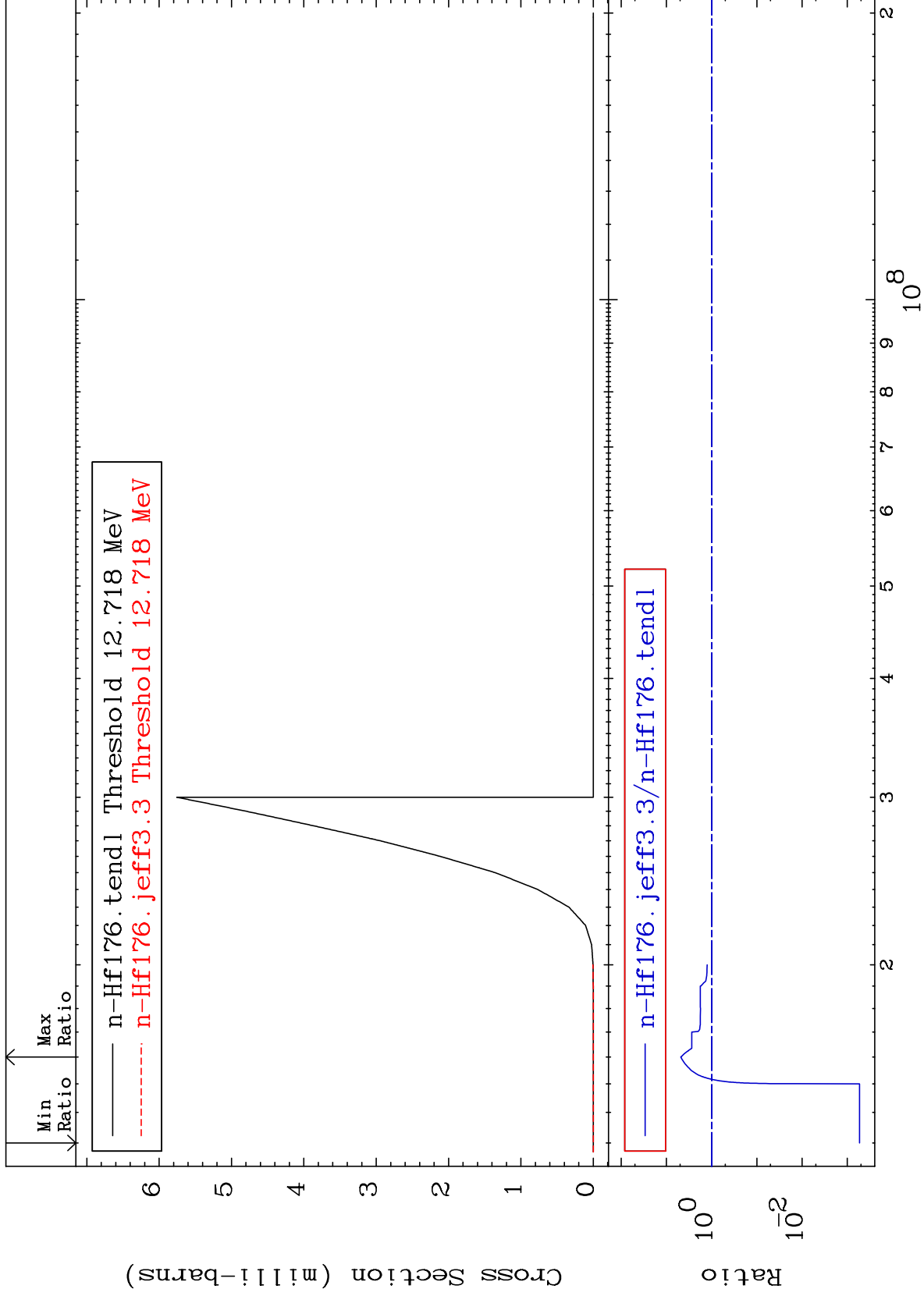




MAT 7231

(n,n') t  
Cross Section

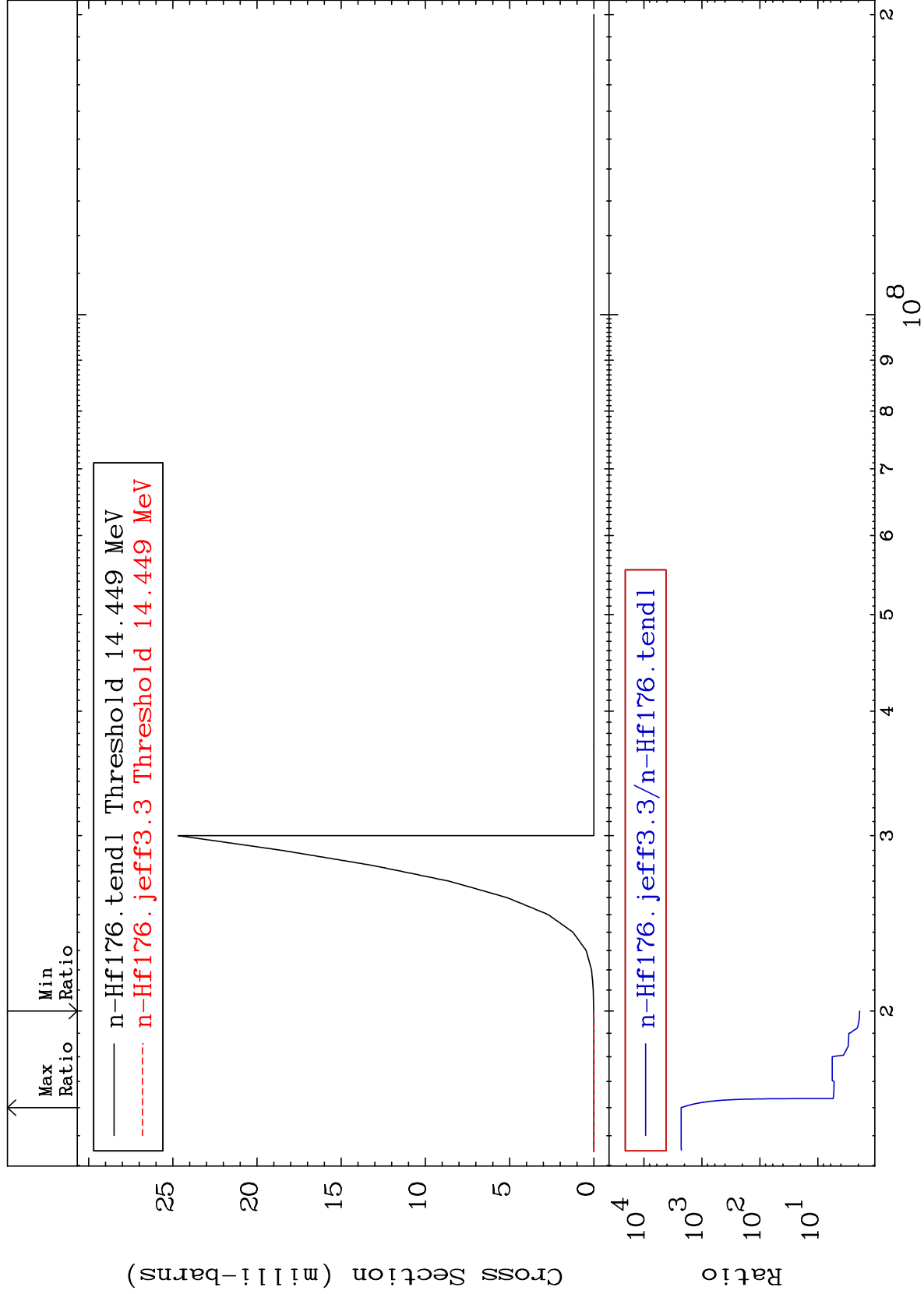
72-Hf-176  
-99.95 To 382.6 %



10

Incident Energy (eV)

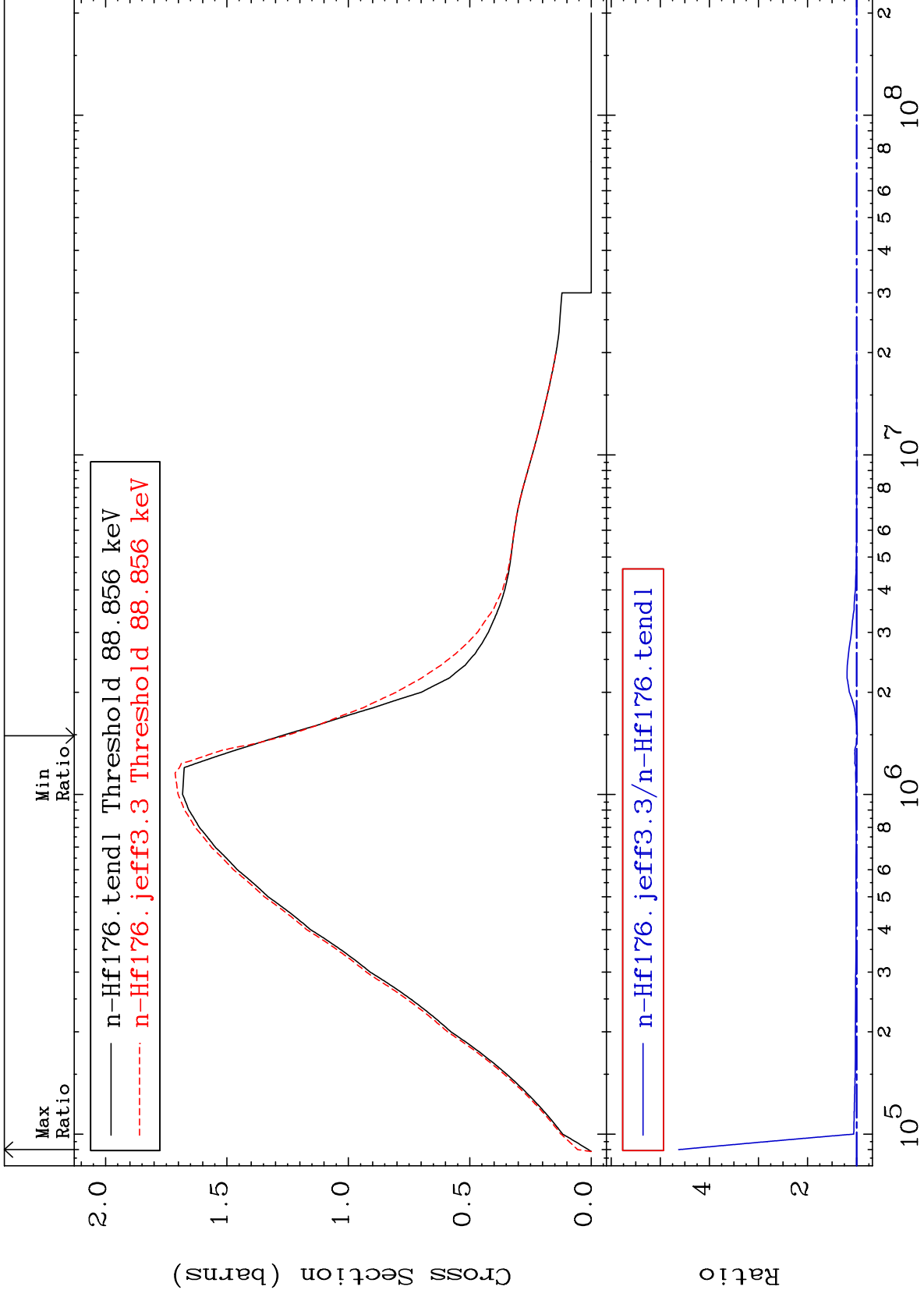
72-Hf-176



MAT 7231

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

72-Hf-176  
-1.281 To 362.6 %



12

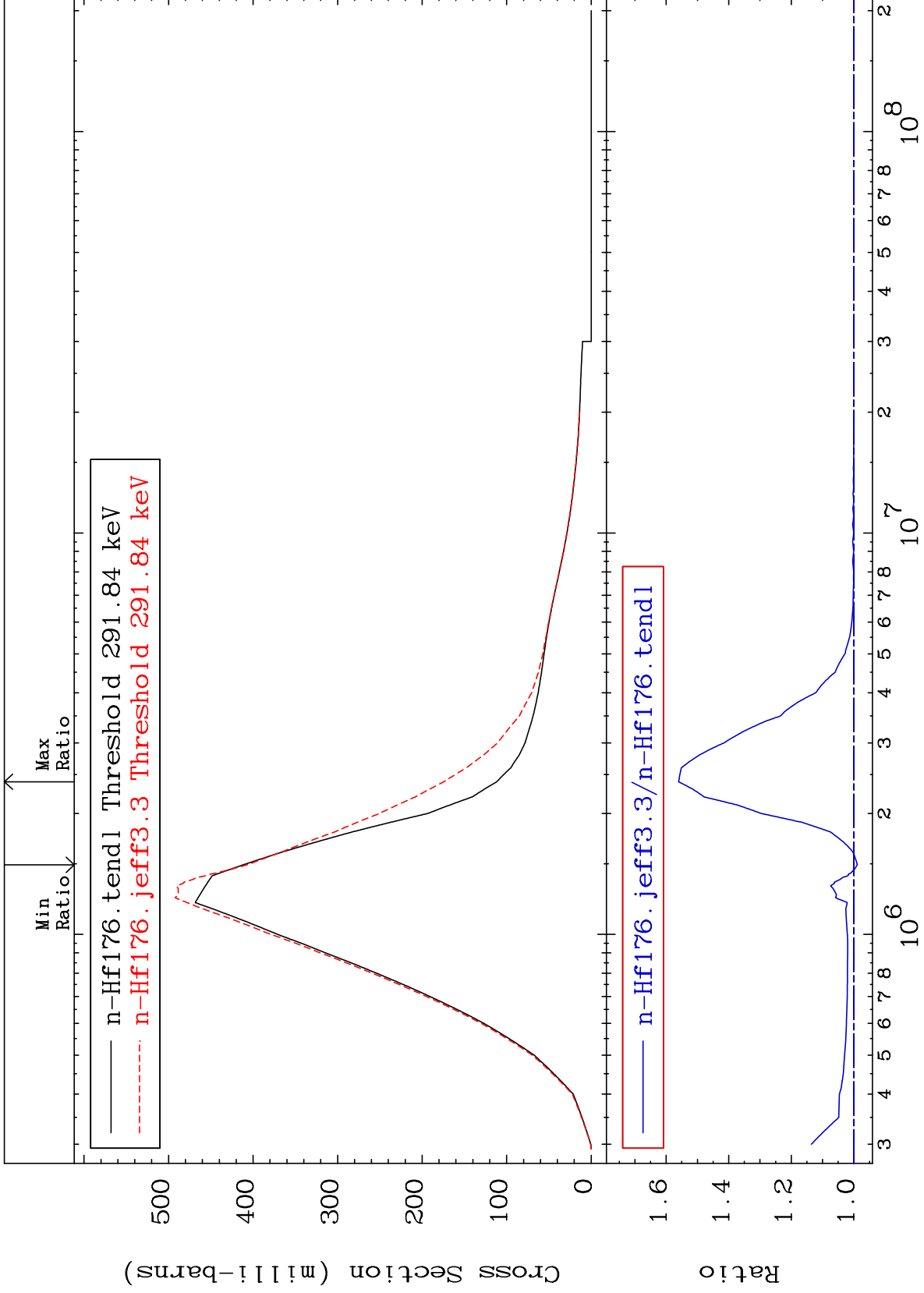
Incident Energy (eV)

72-Hf-176

MAT 7231

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

72-Hf-176  
-1.099 To 56.01 %



13

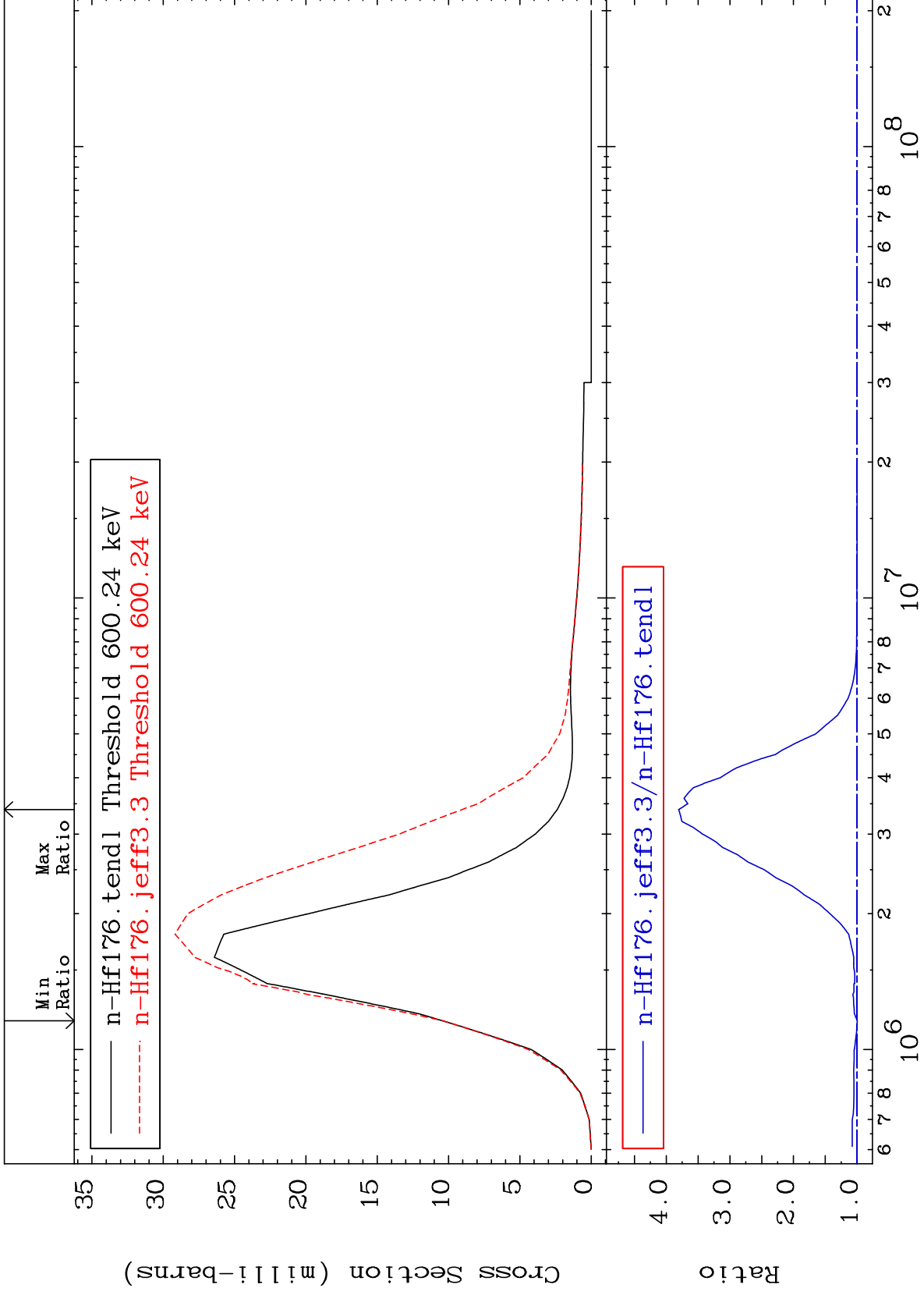
Incident Energy (eV)

72-Hf-176

MAT 7231

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

72-Hf-176  
-0.222 To 280.5 %



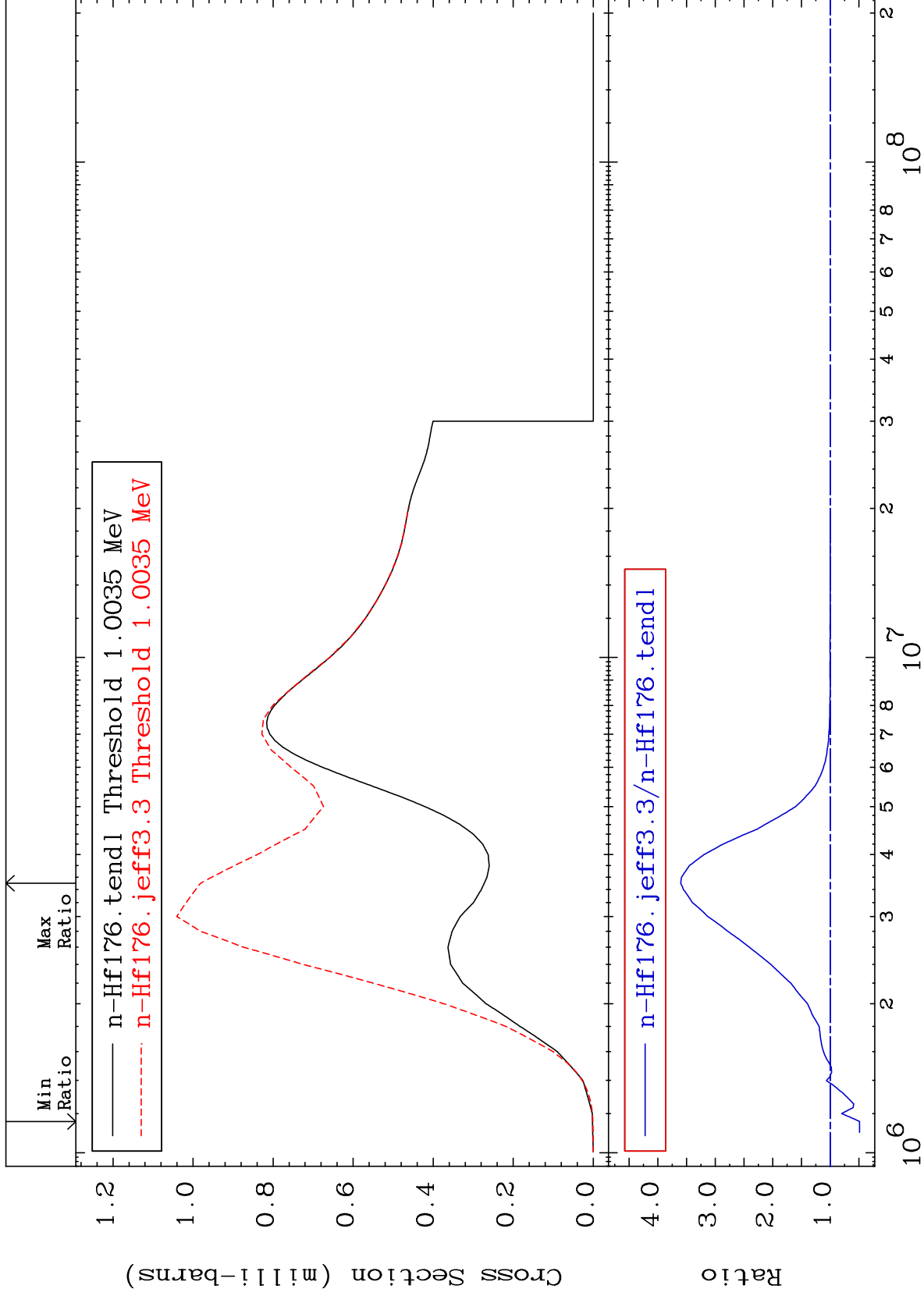
14

72-Hf-176

MAT 7231

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

72-Hf-176  
-51.12 To 260.1 %



Incident Energy (eV)

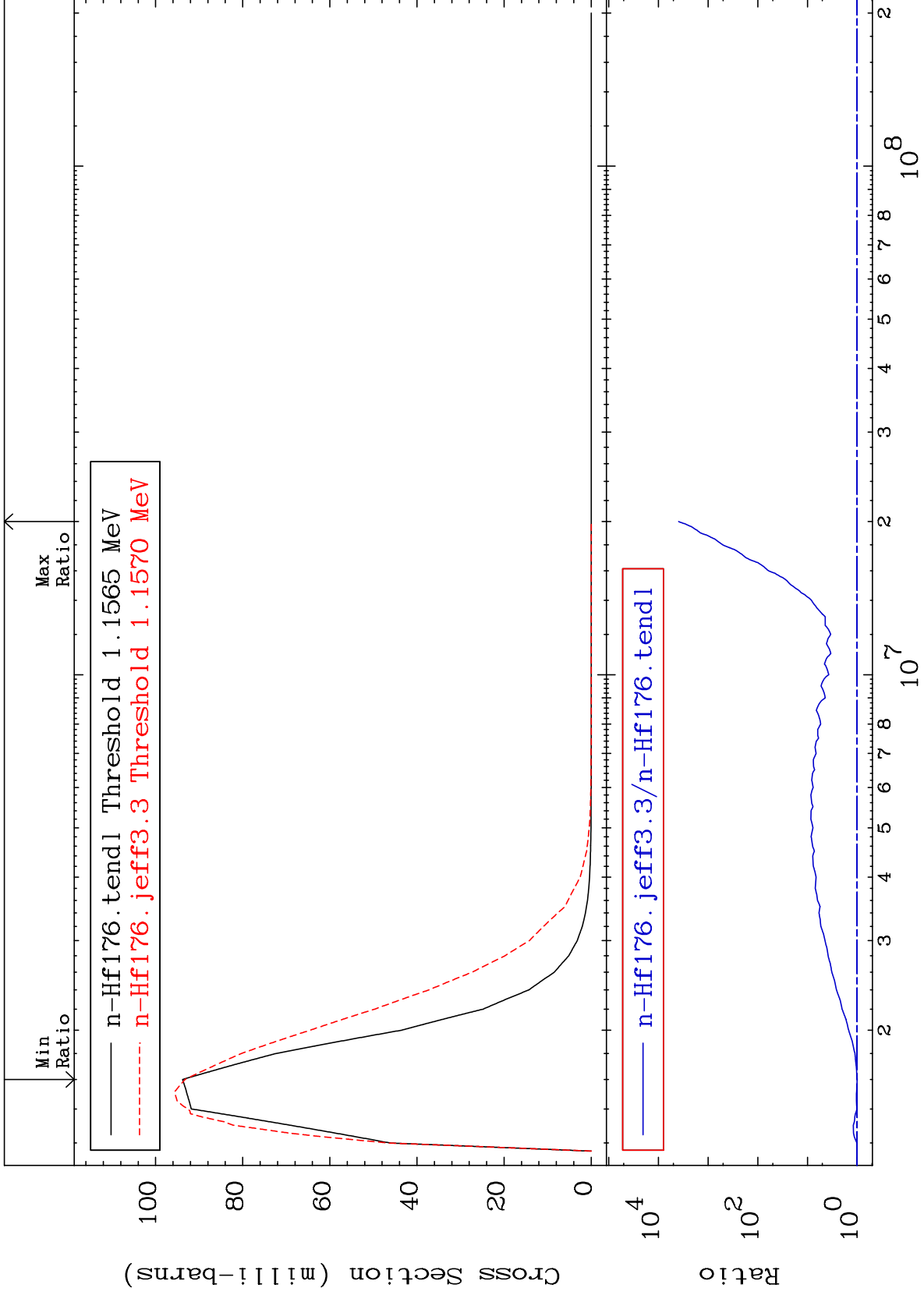
15

72-Hf-176

MAT 7231

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

72-Hf-176  
-0.571 To 9999. %

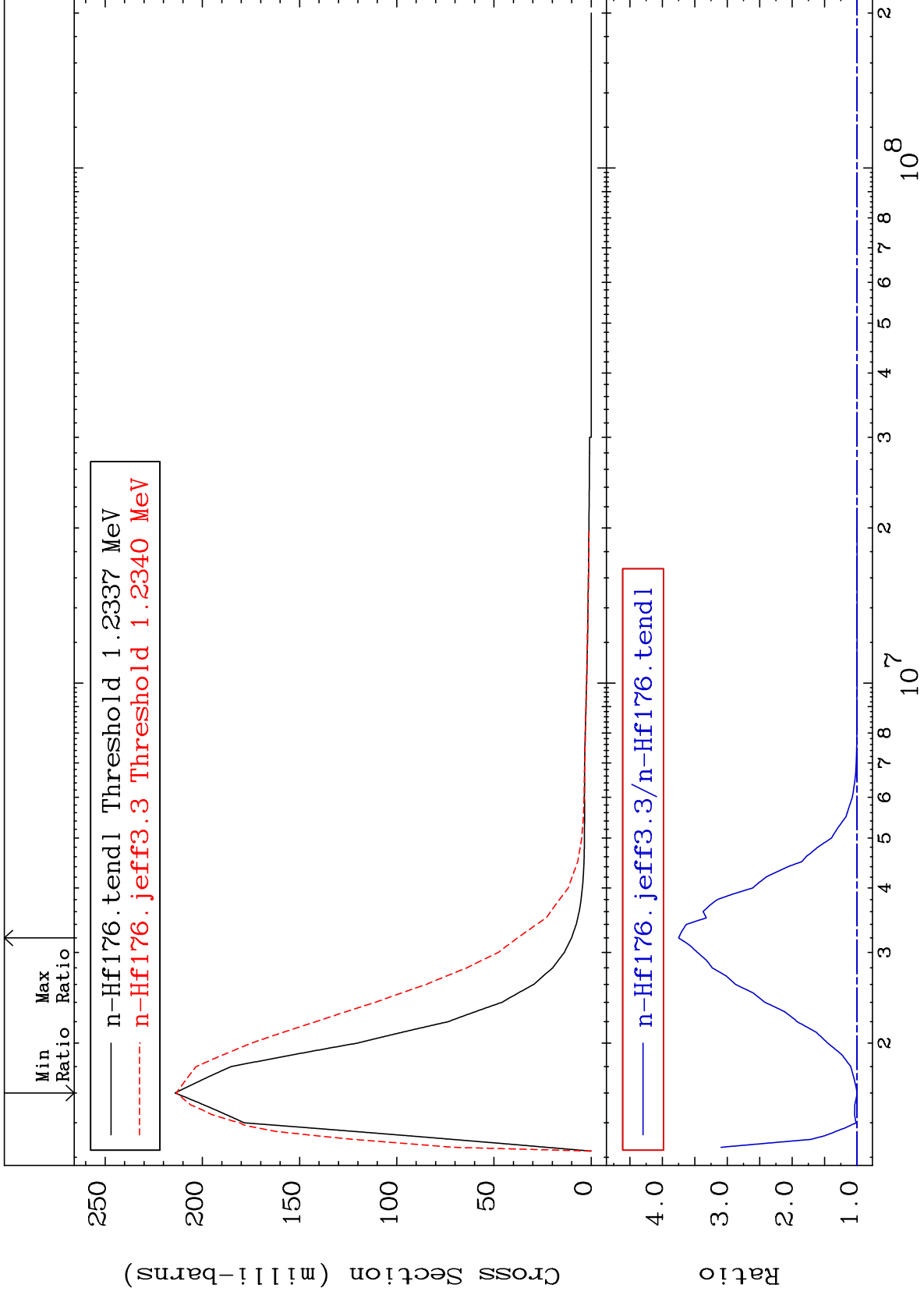




MAT 7231

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

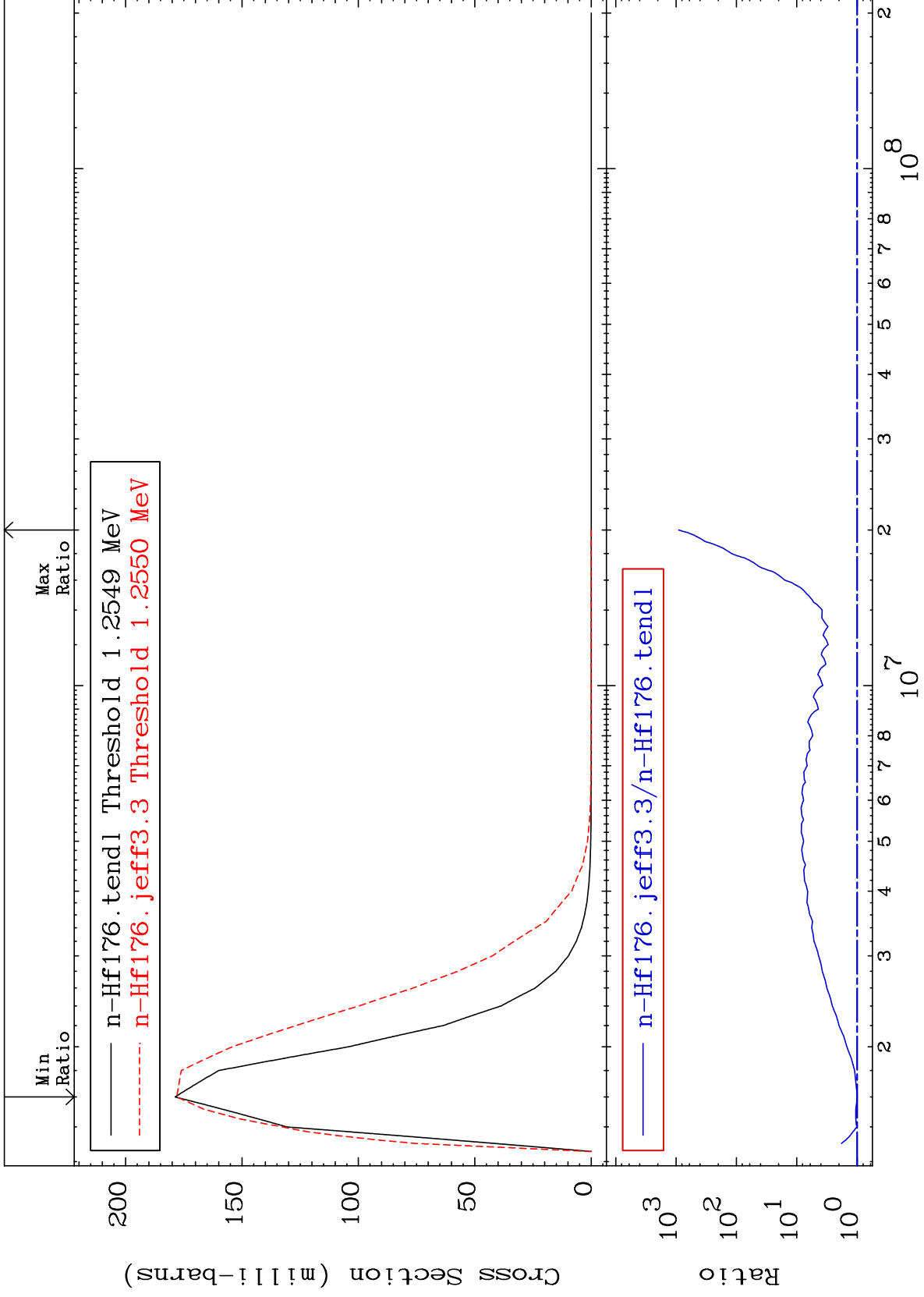
72-Hf-176  
-0.327 To 275.0 %



MAT 7231

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

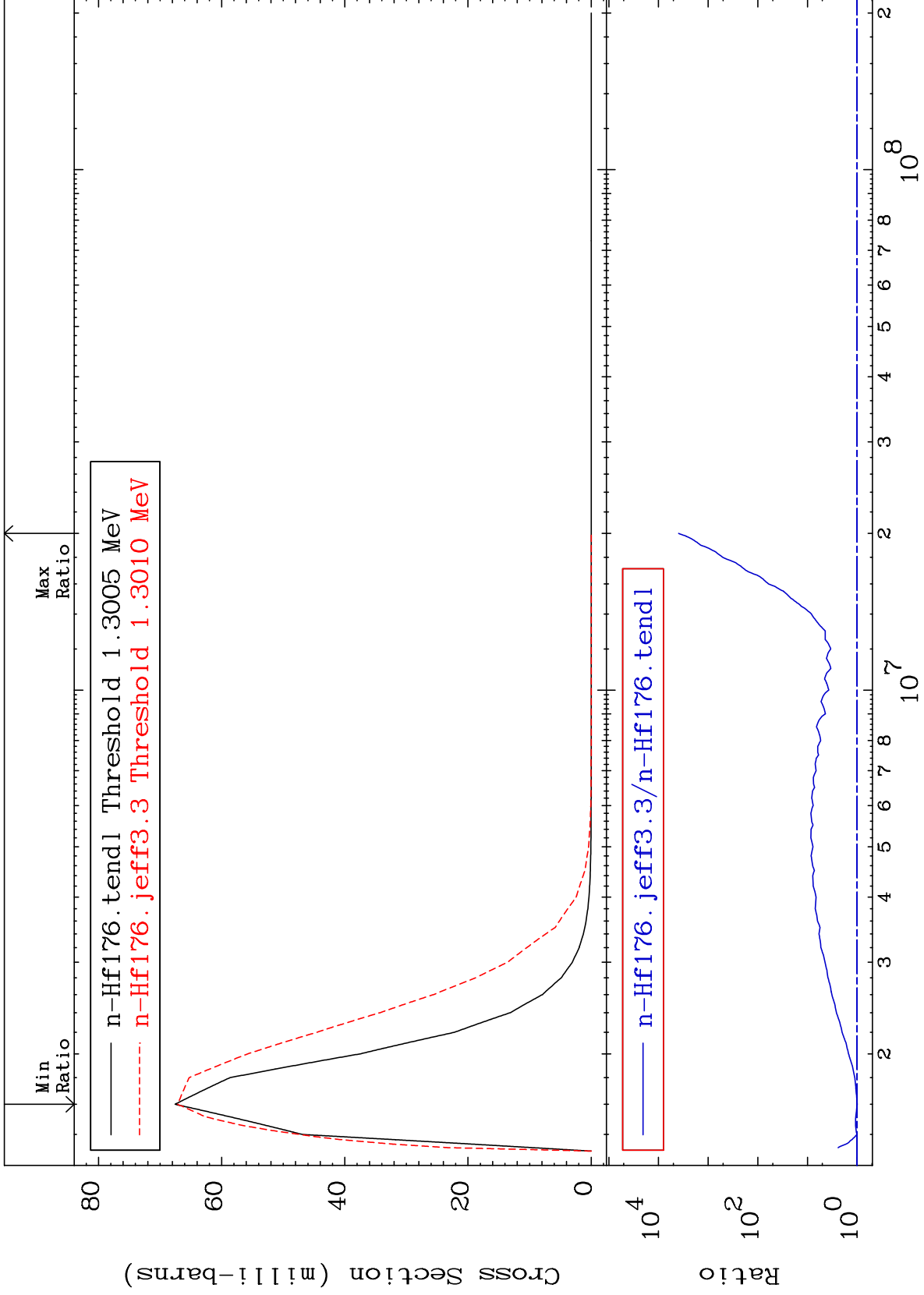
72-Hf-176  
-0.410 To 9999. %



MAT 7231

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

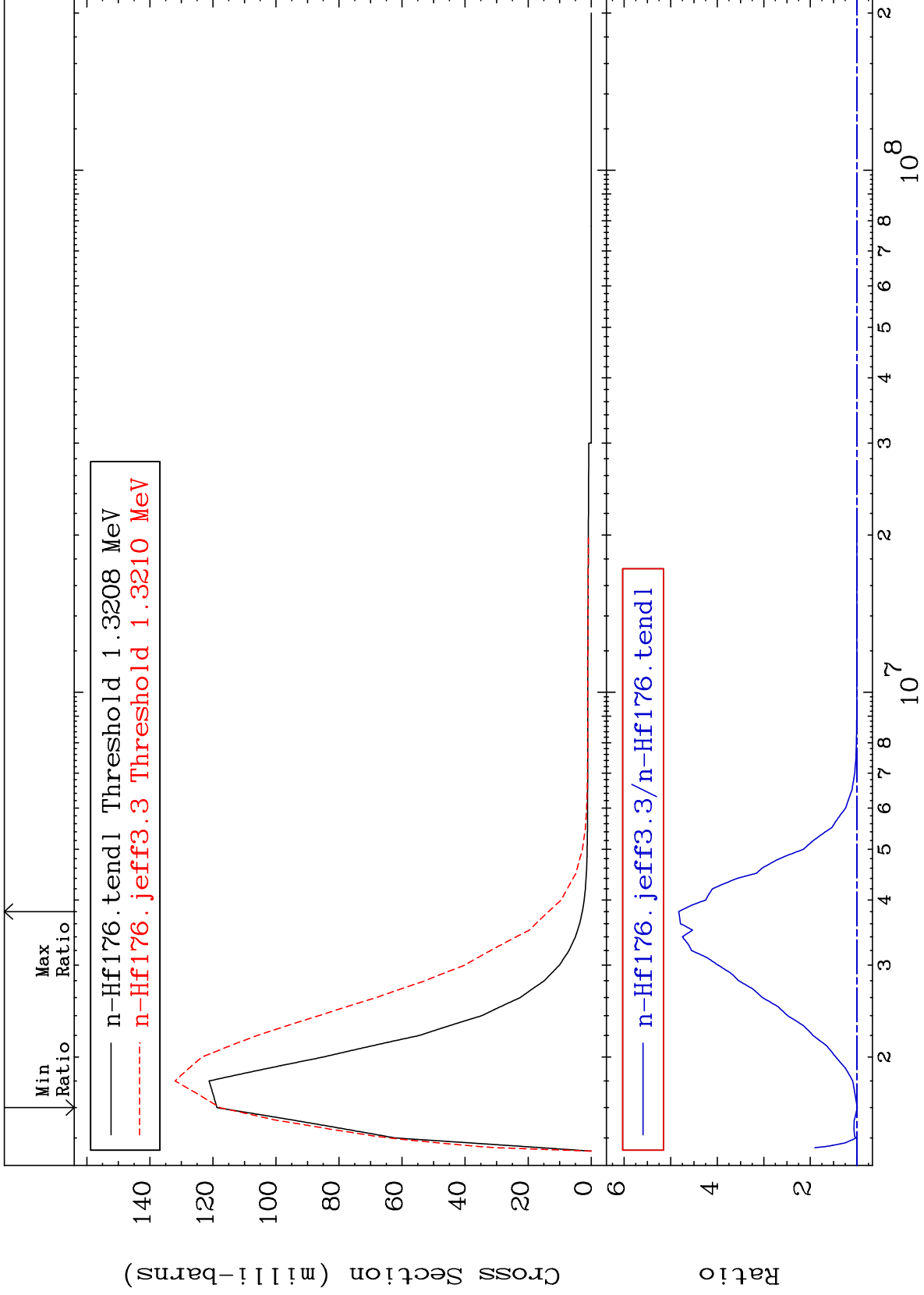
72-Hf-176  
-0.615 To 9999. %



MAT 7231

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

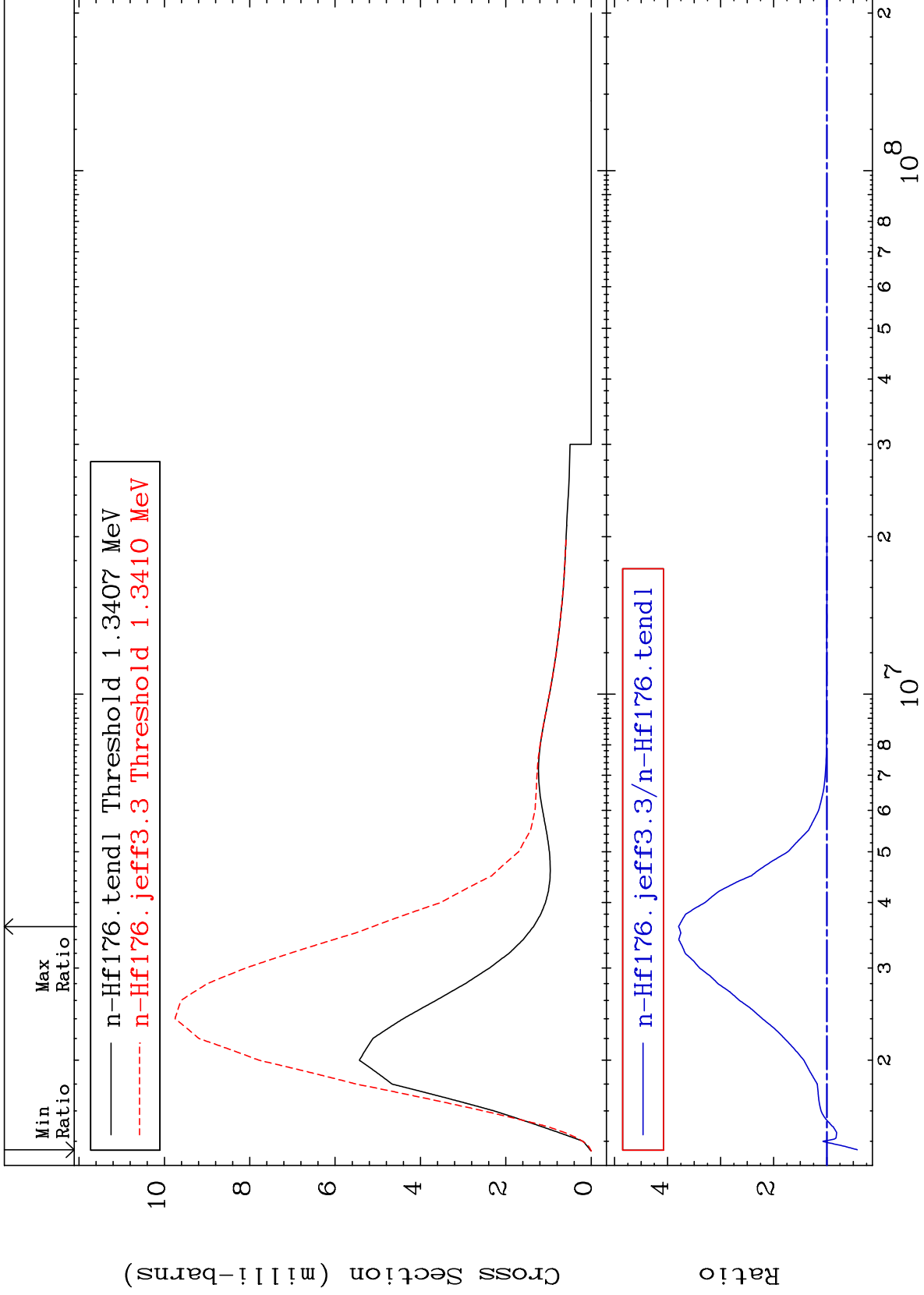
72-Hf-176  
-0.819 To 382.9 %



MAT 7231

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

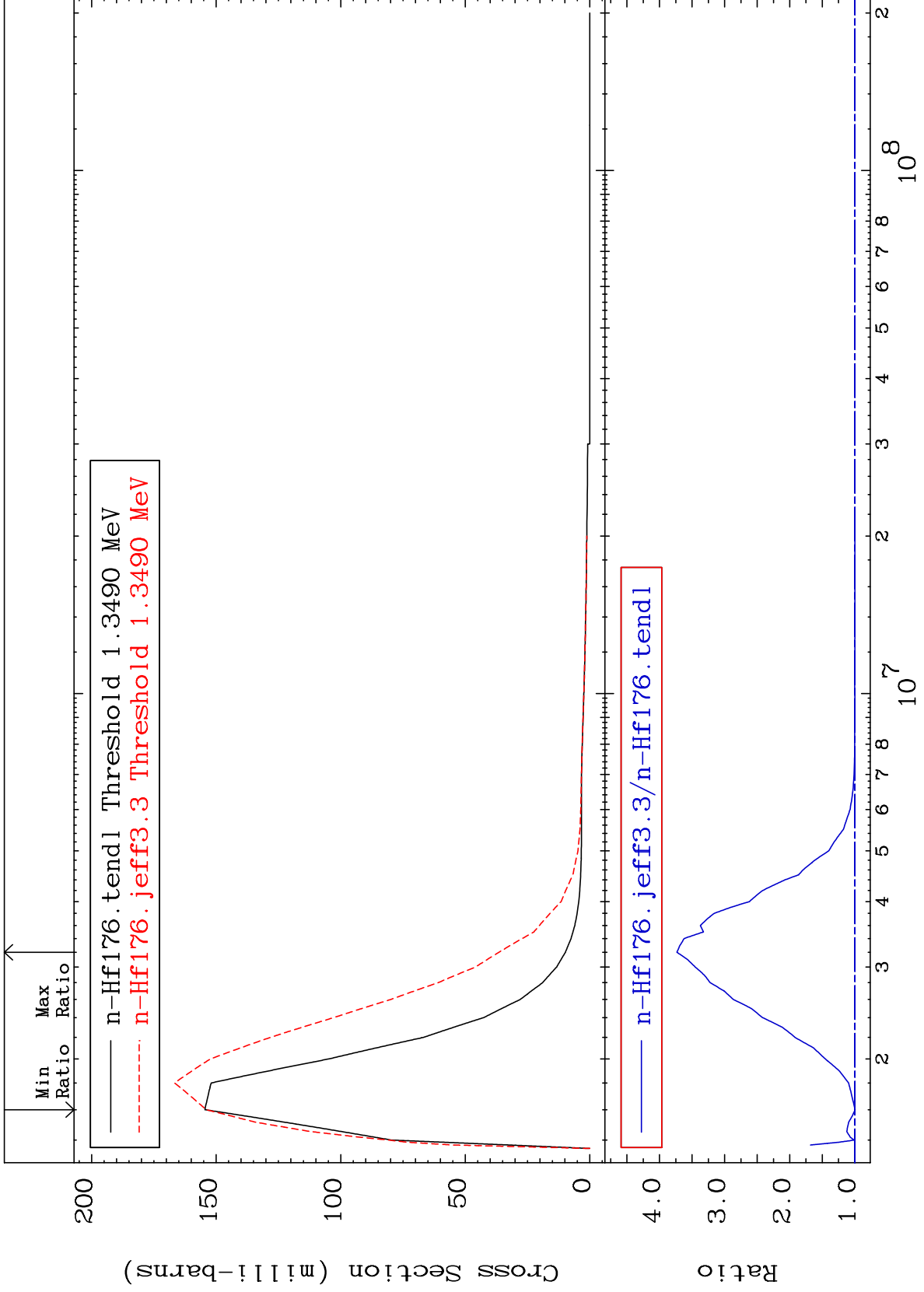
72-Hf-176  
-57.40 To 279.2 %



MAT 7231

MT= 61 (n,n') Level  
Cross Section

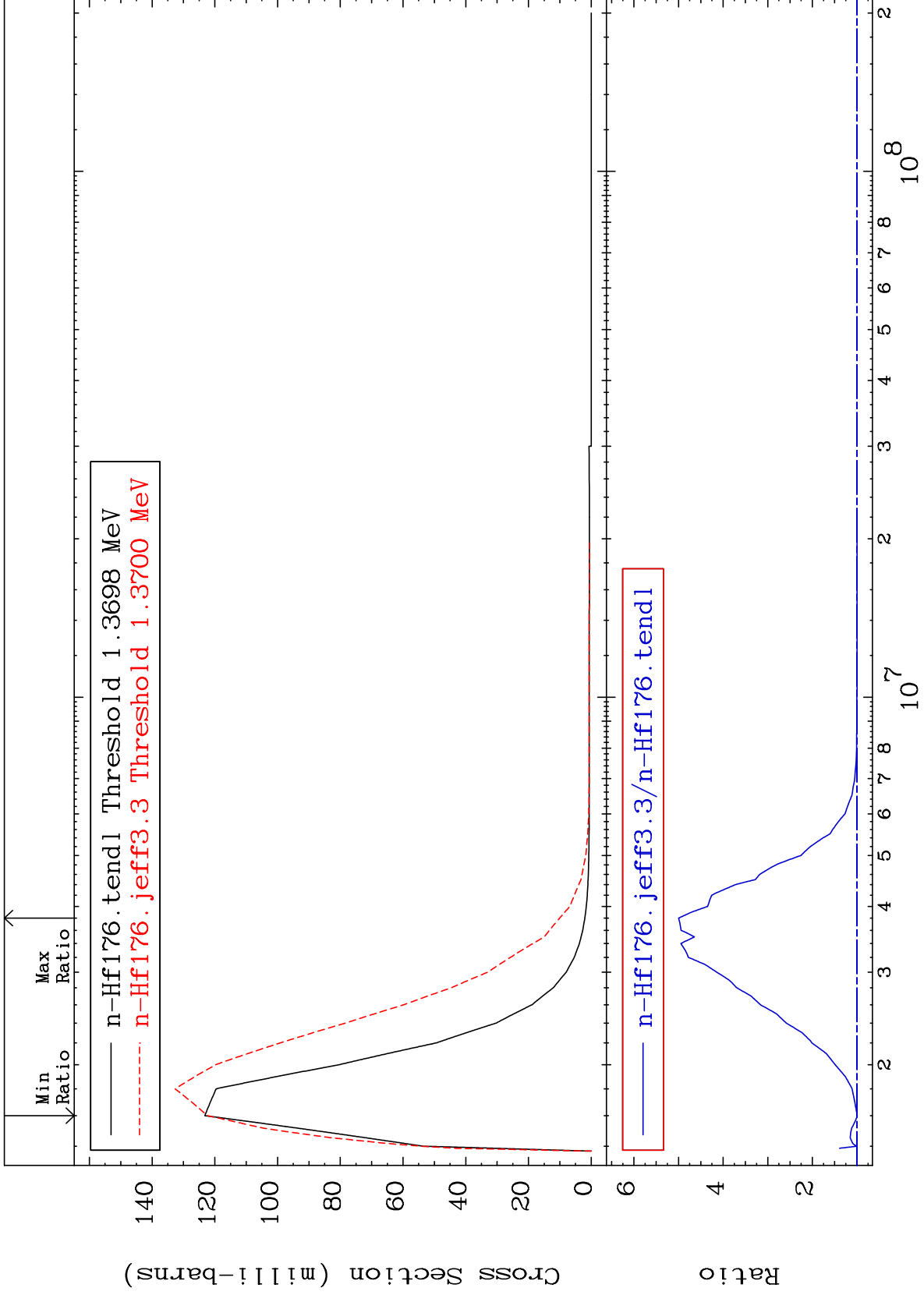
72-Hf-176  
-0.337 To 273.2 %



MAT 7231

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

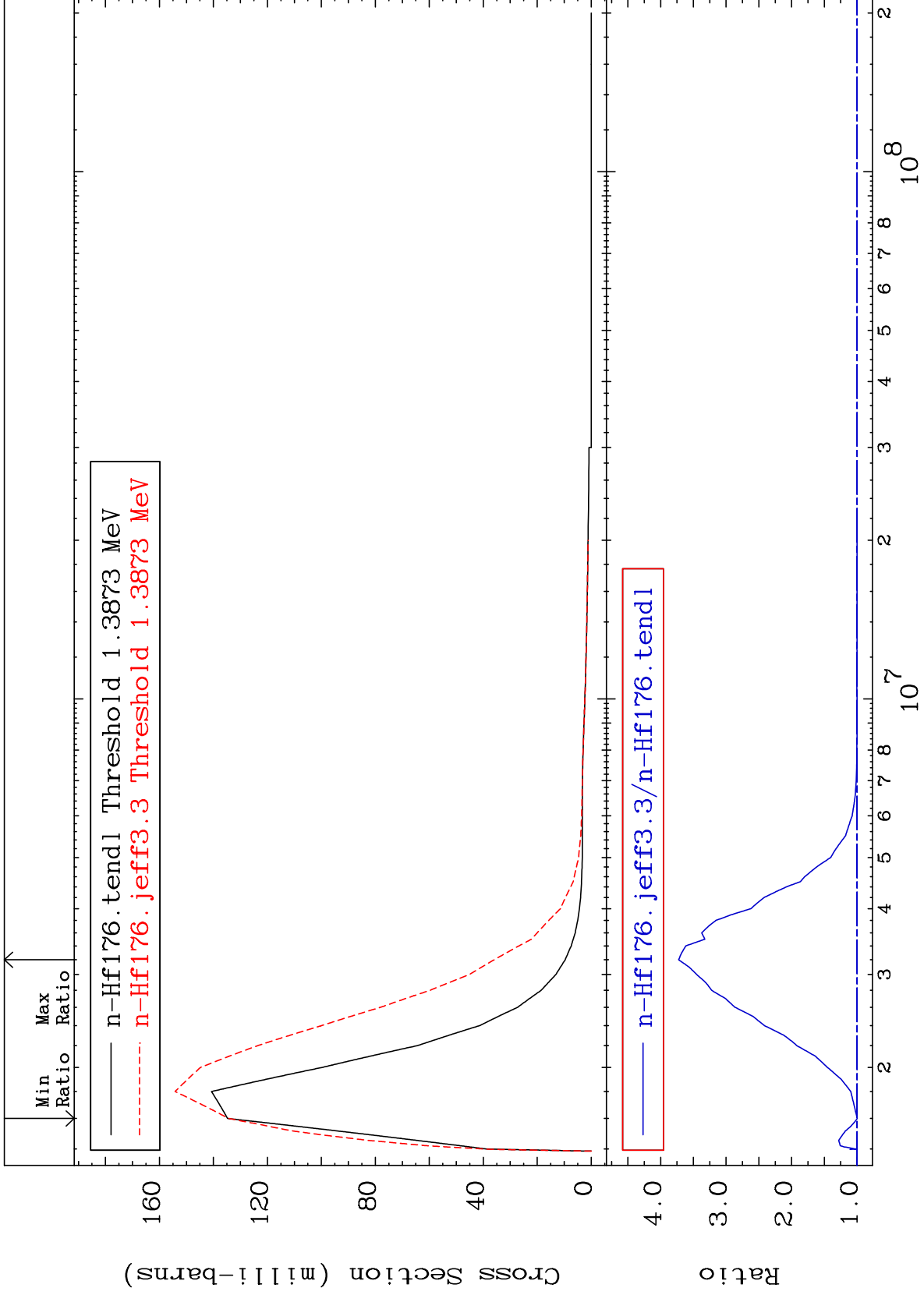
72-Hf-176  
-0.701 To 399.7 %



MAT 7231

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

72-Hf-176  
-0.329 To 272.5 %

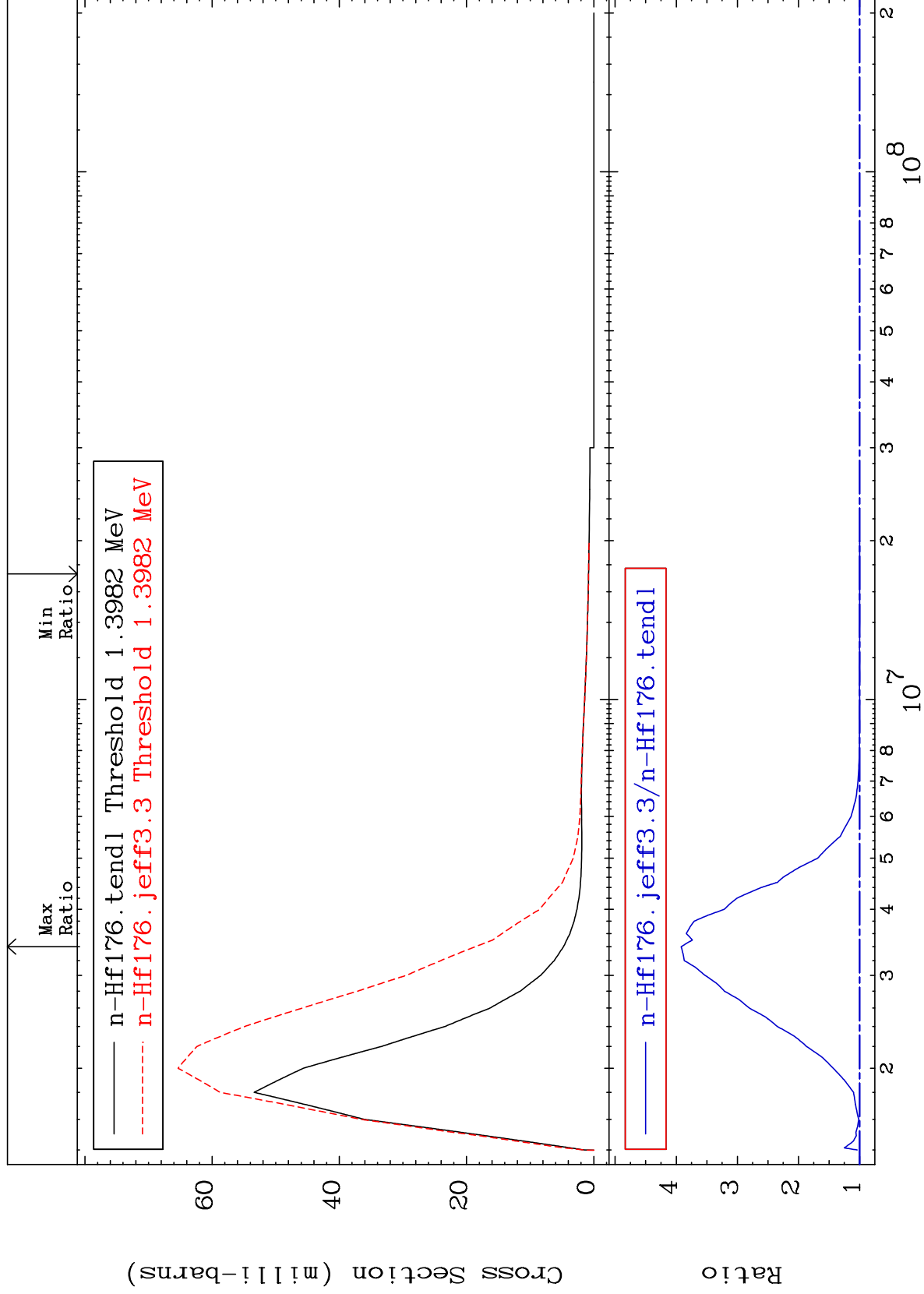


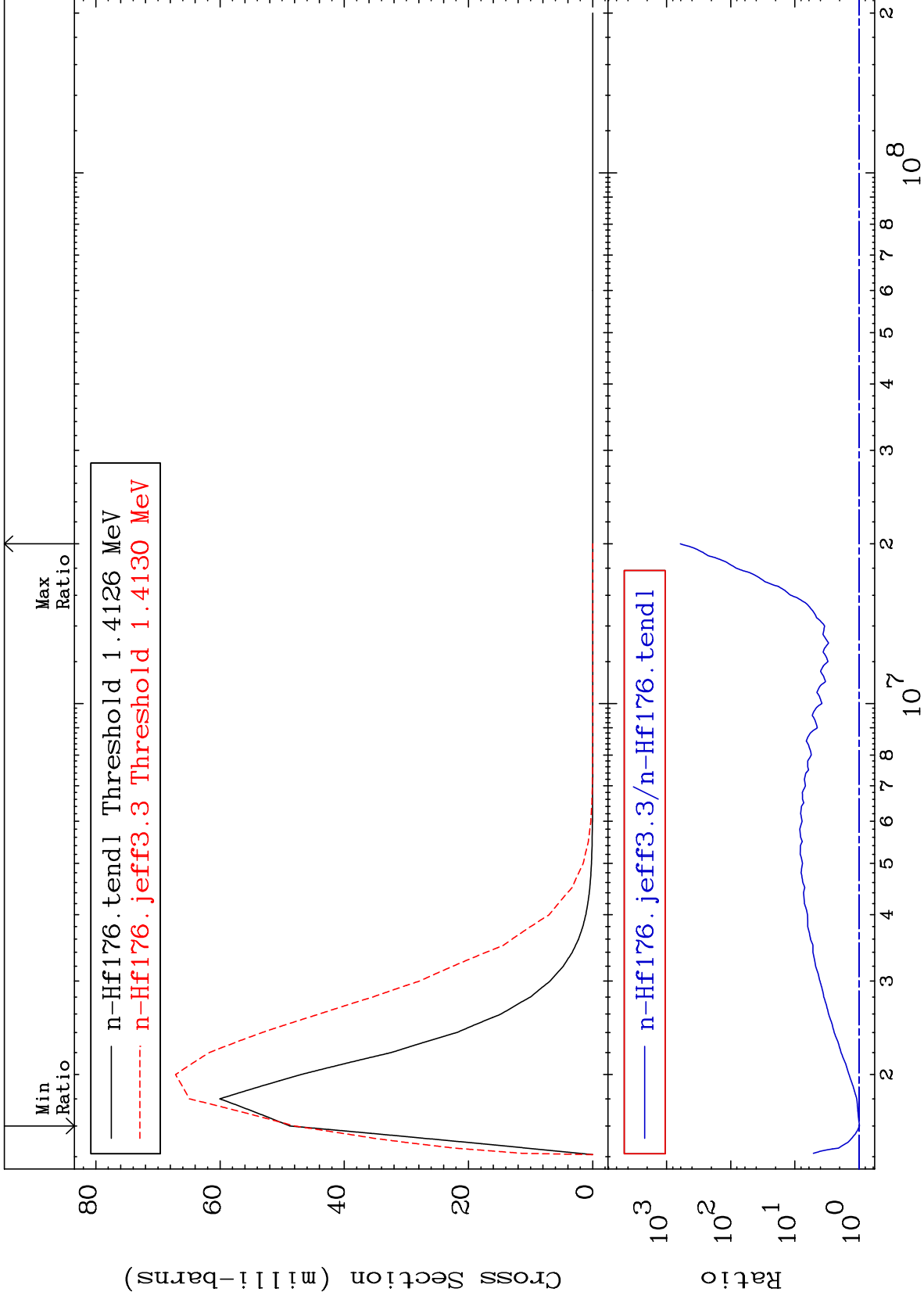


MAT 7231

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

72-Hf-176  
To 291.9 %

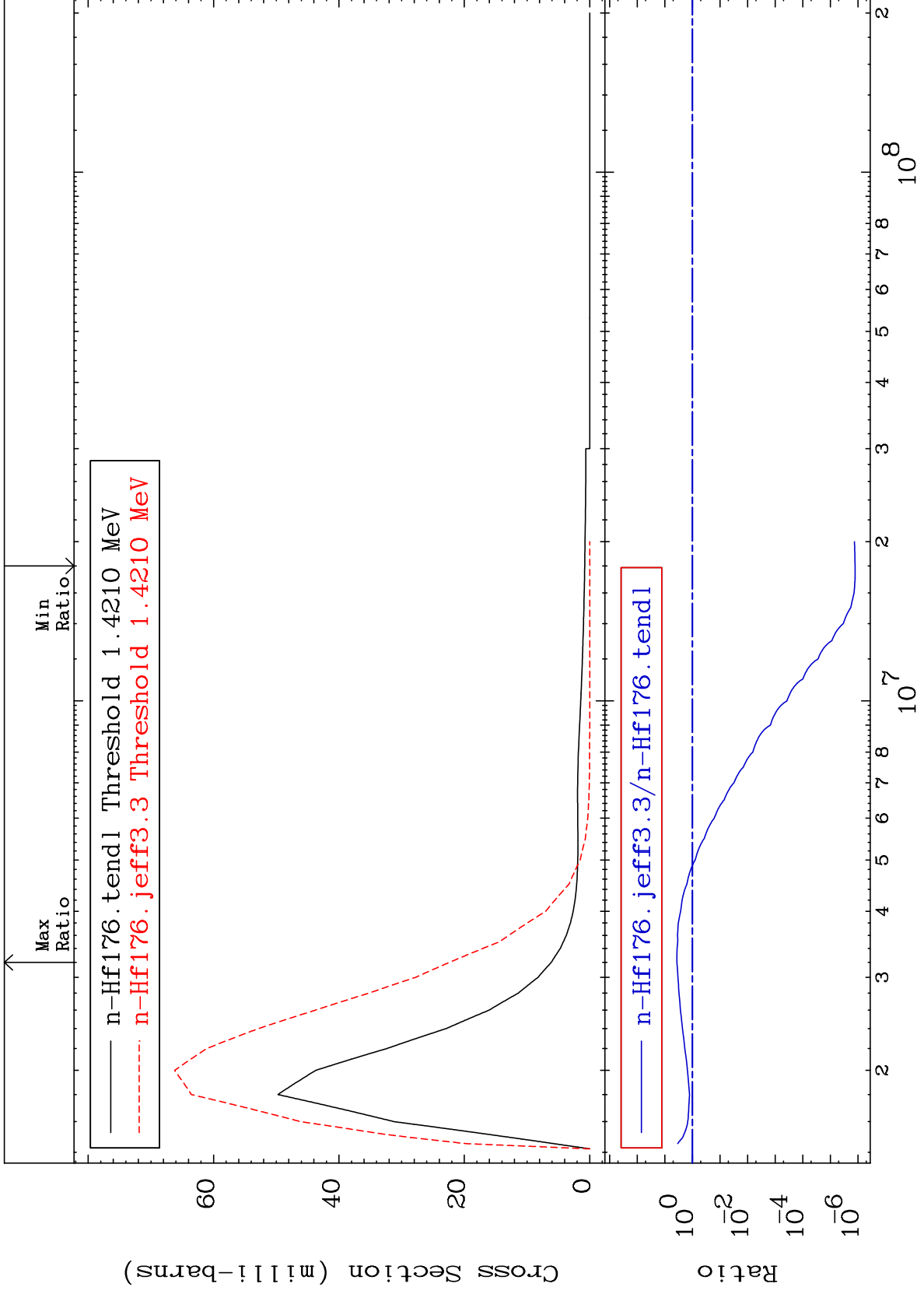




MAT 7231

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

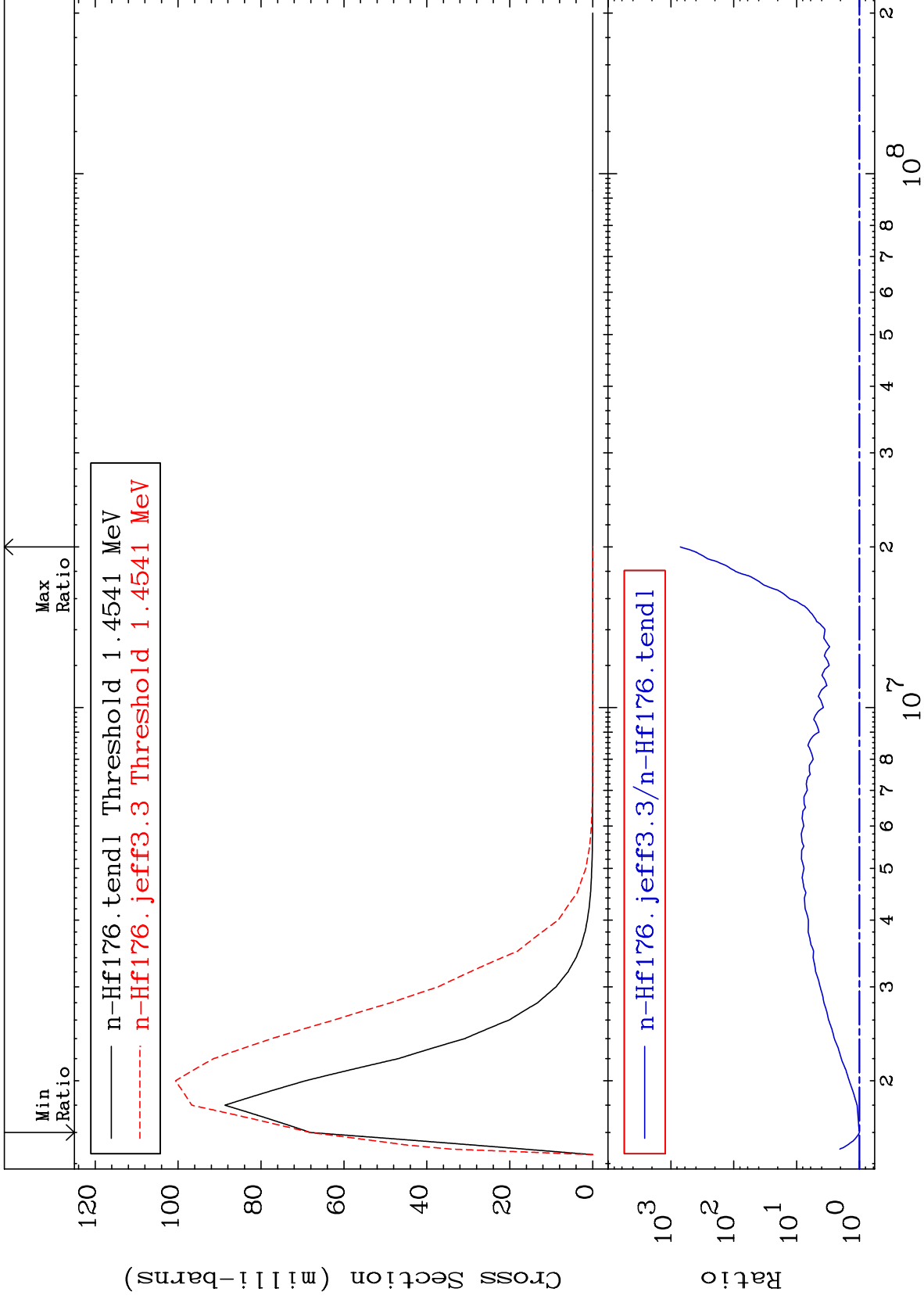
72-Hf-176  
-100.0 To 264.6 %

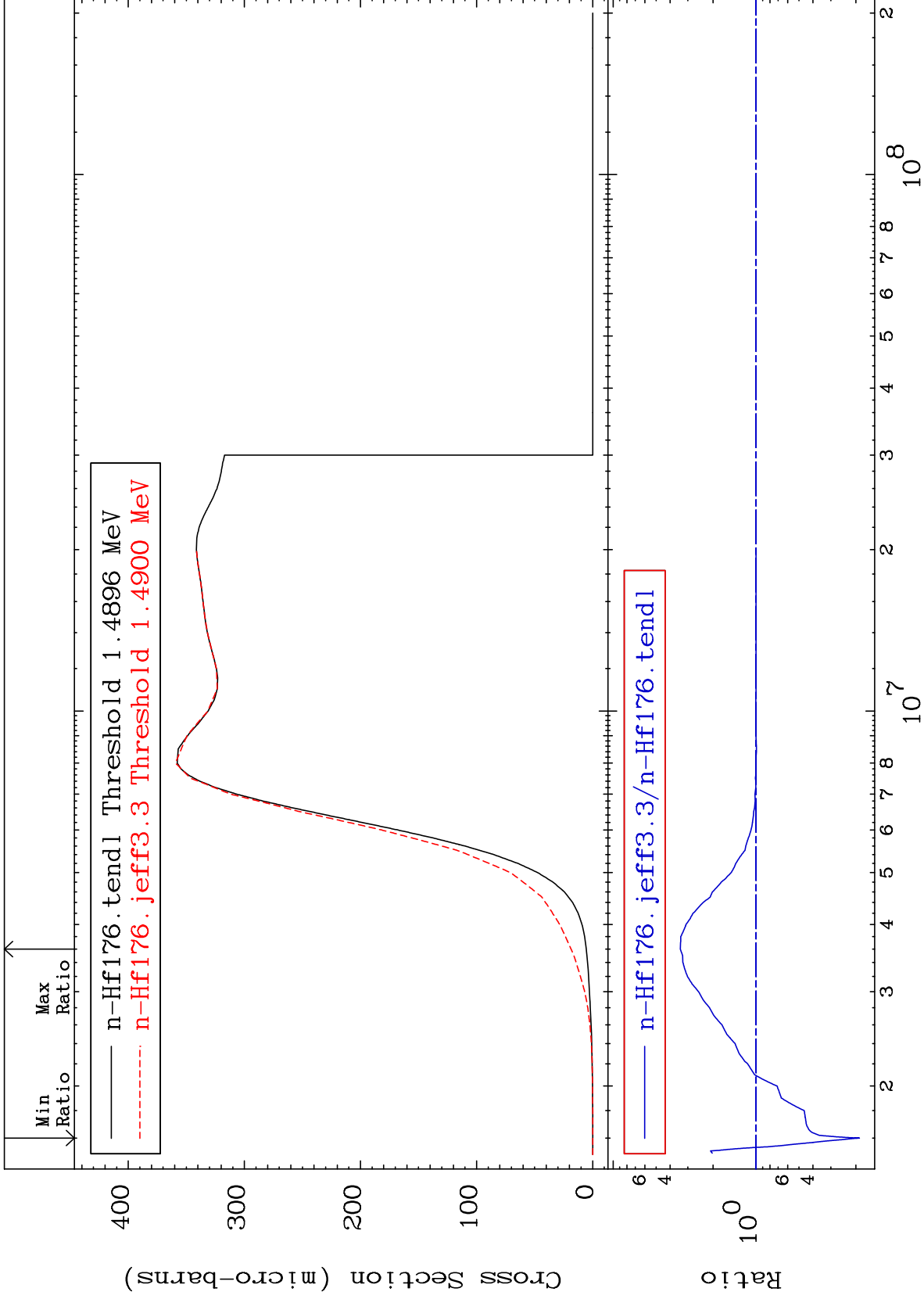


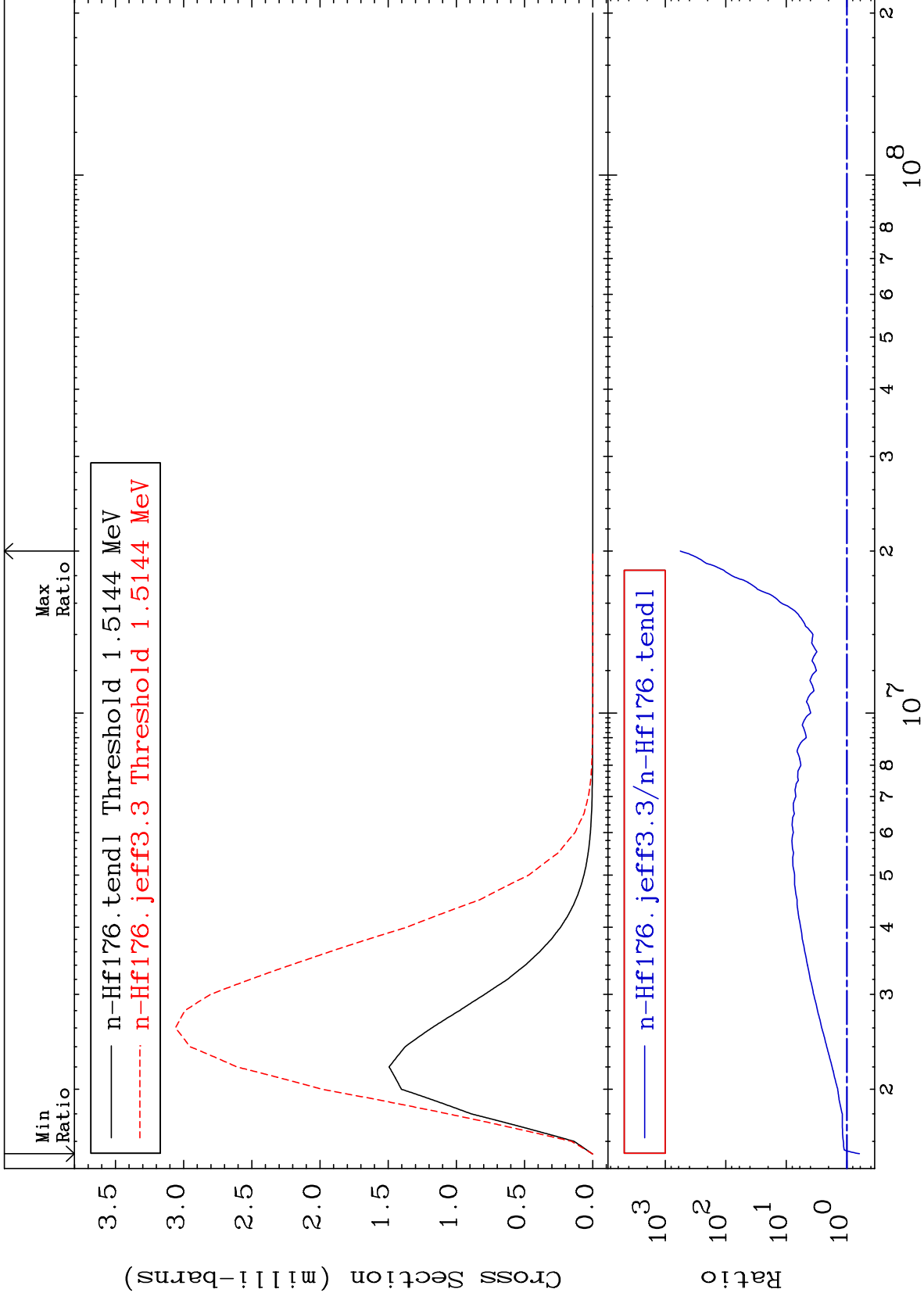
MAT 7231

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

72-Hf-176  
0.048 To 9999. %



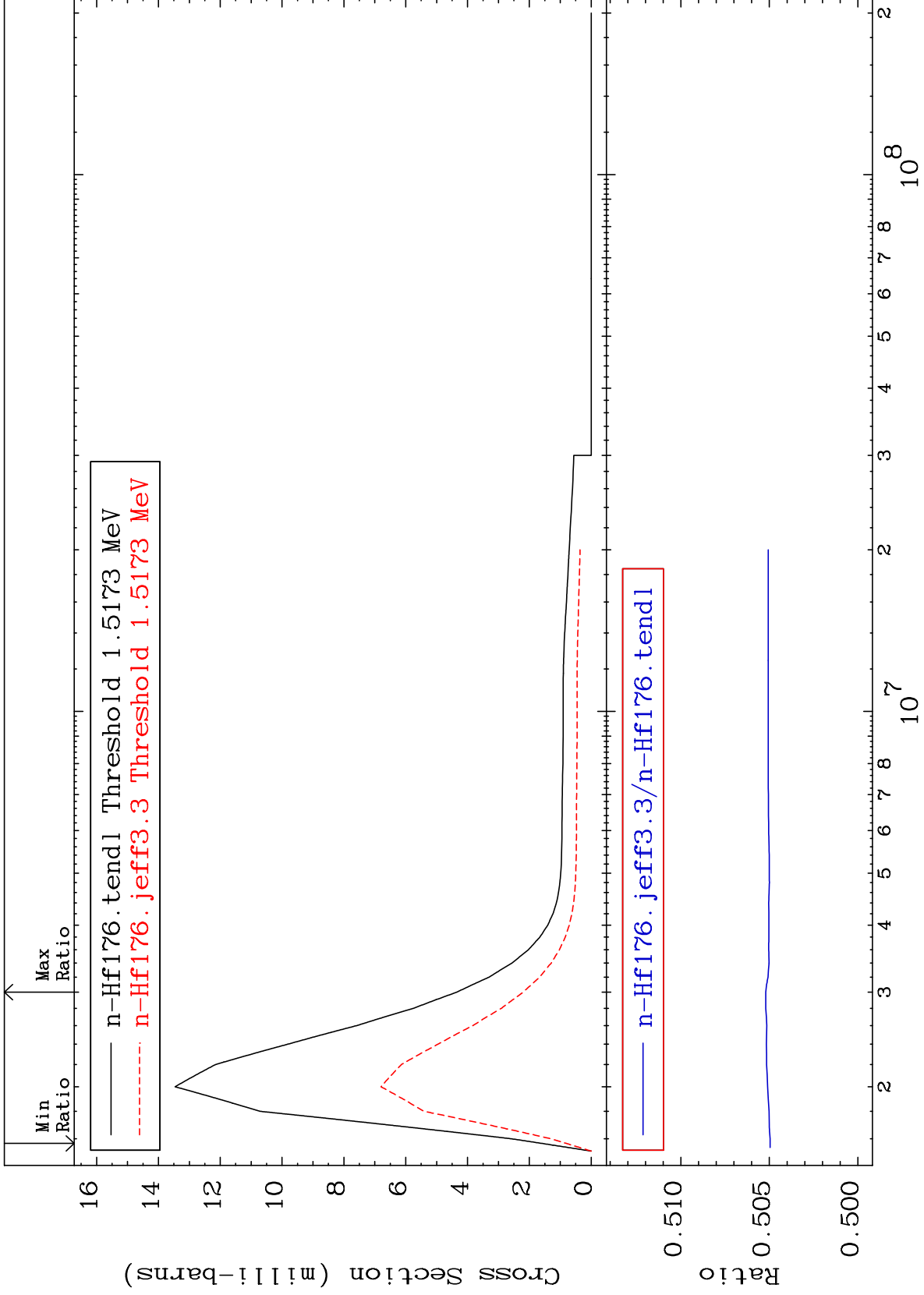




MAT 7231

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

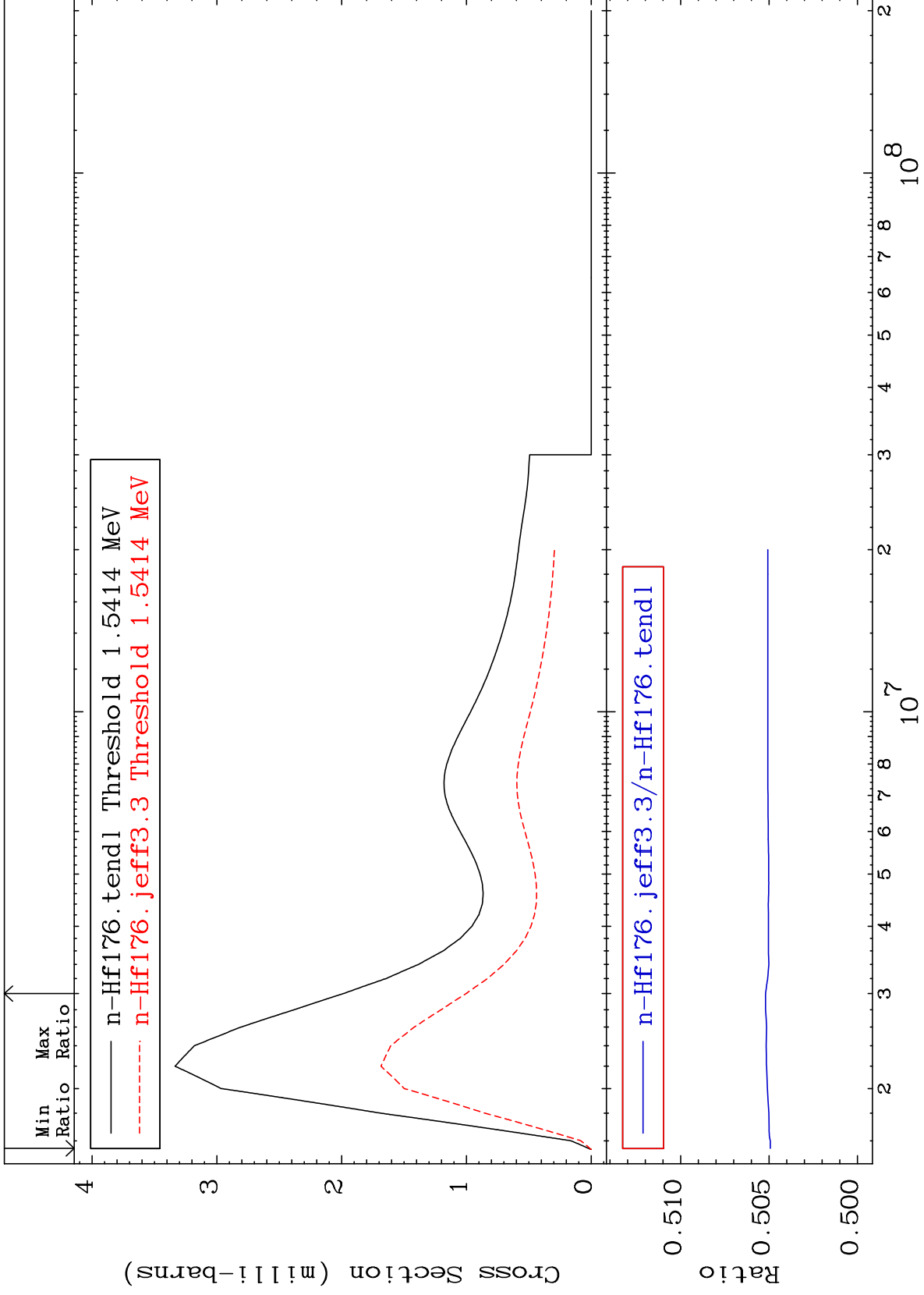
72-Hf-176  
-49.50 To -49.48%



MAT 7231

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

72-Hf-176  
-49.51 To -49.48%

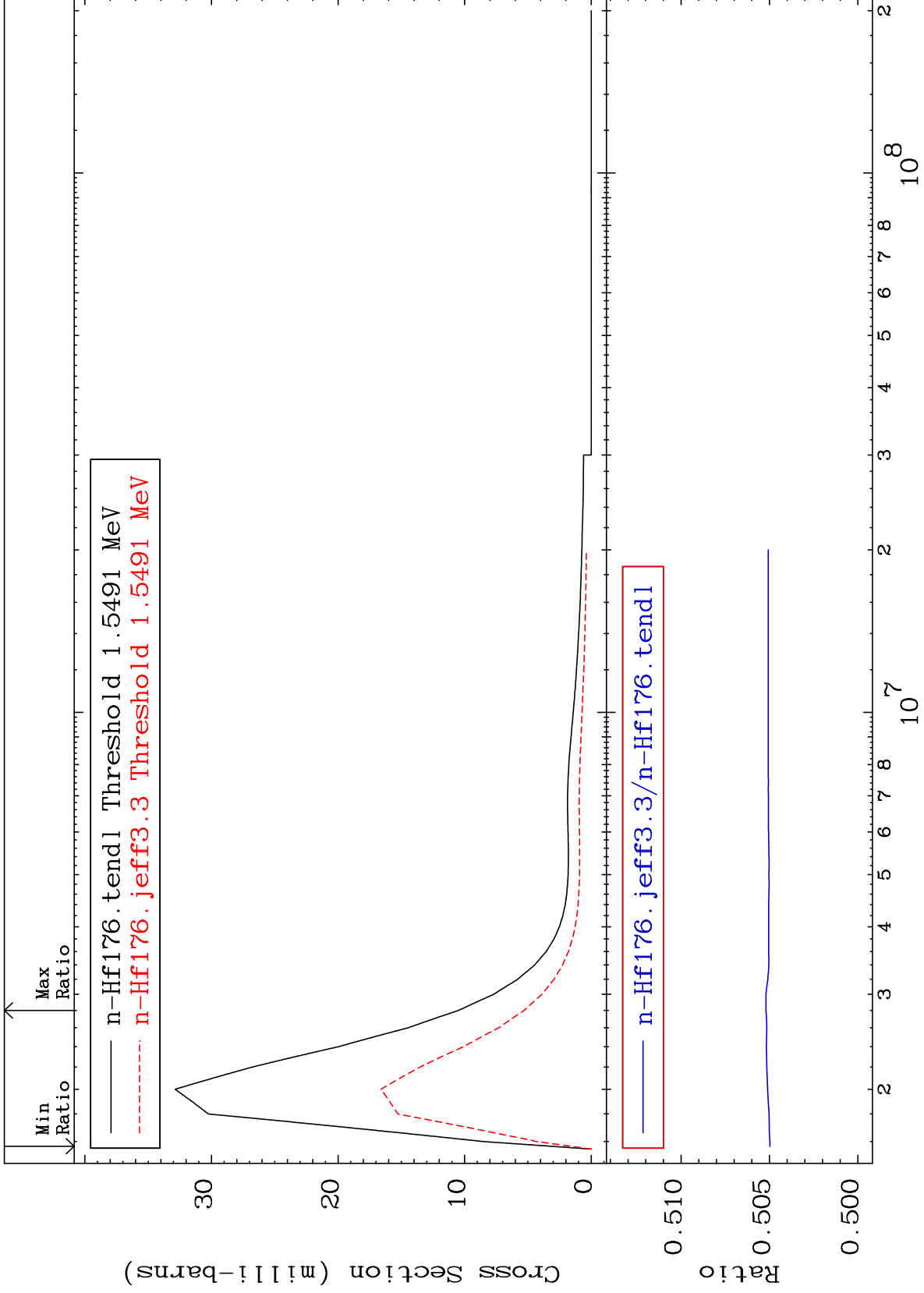




MAT 7231

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

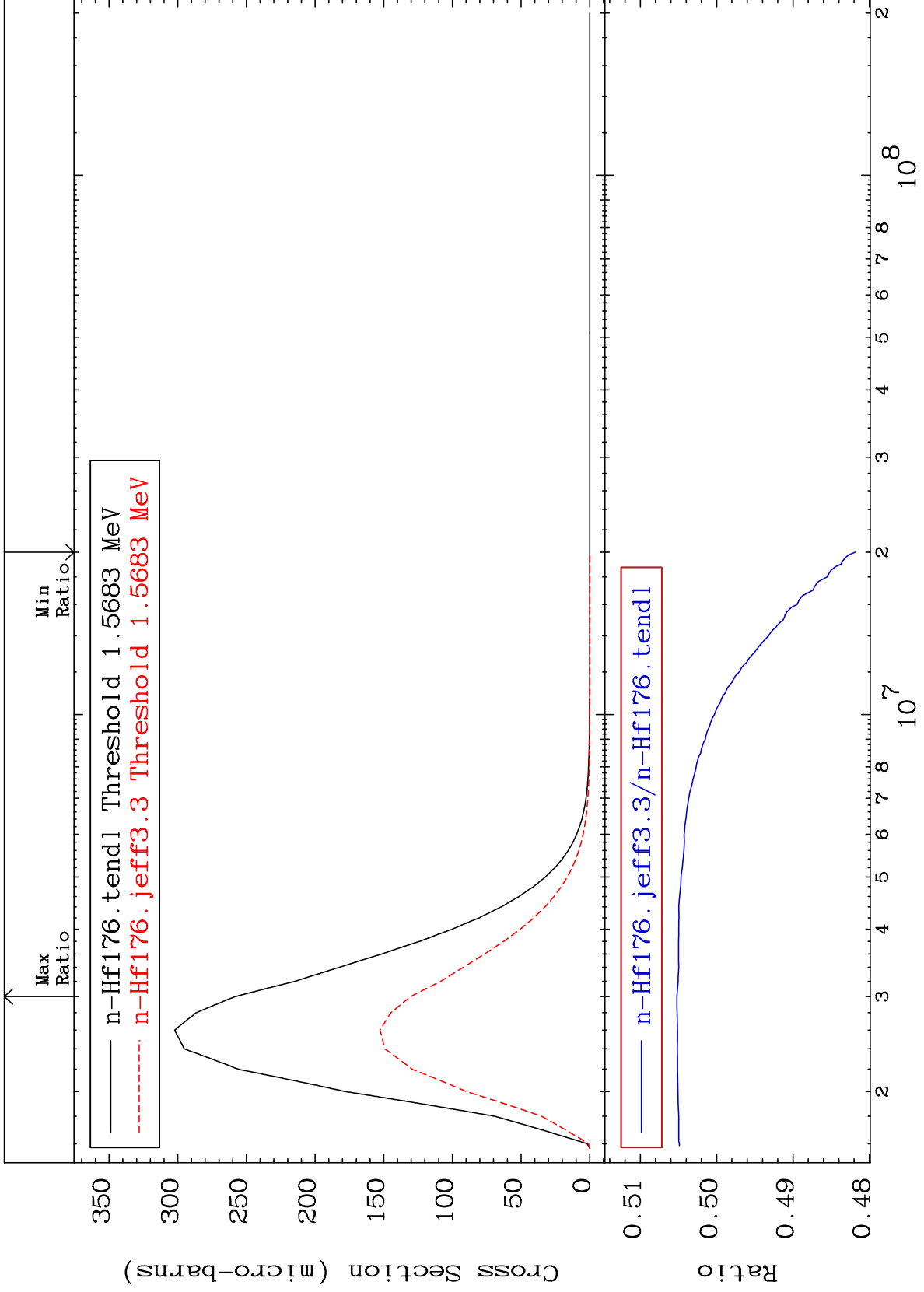
72-Hf-176  
-49.50 To -49.48%



MAT 7231

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

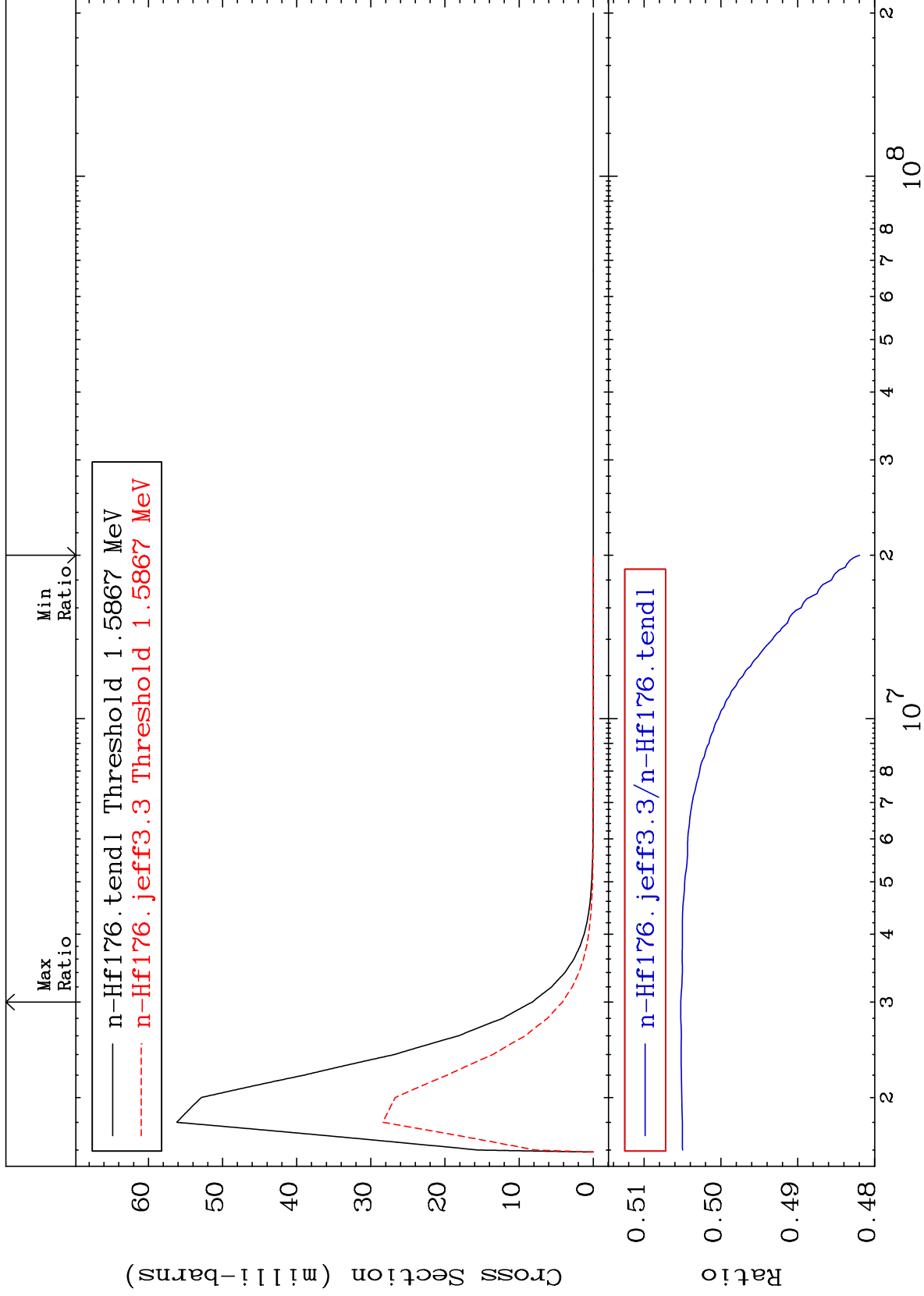
72-Hf-176  
-51.81 To -49.48%



MAT 7231

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

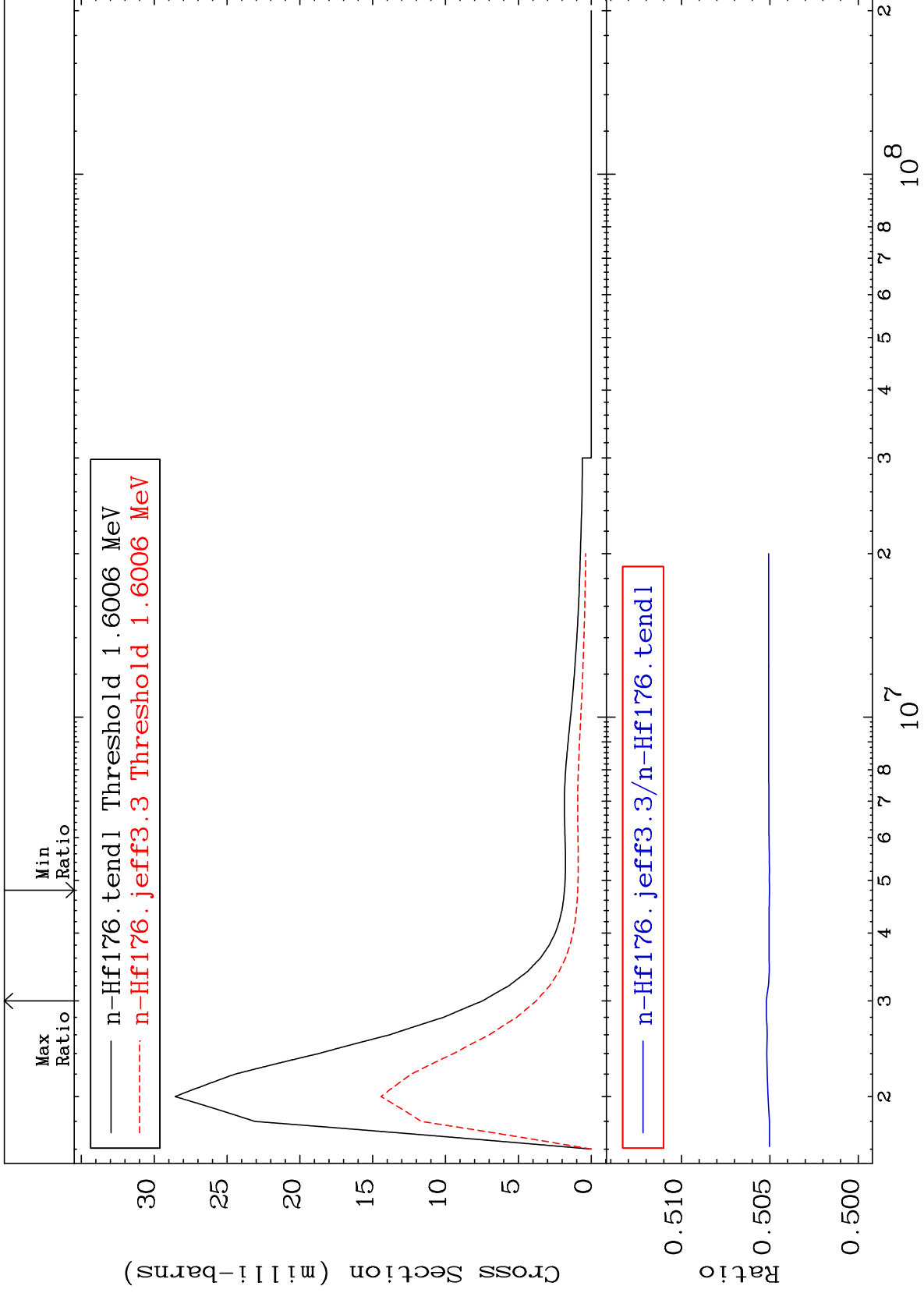
72-Hf-176  
-51.80 To -49.48%



MAT 7231

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

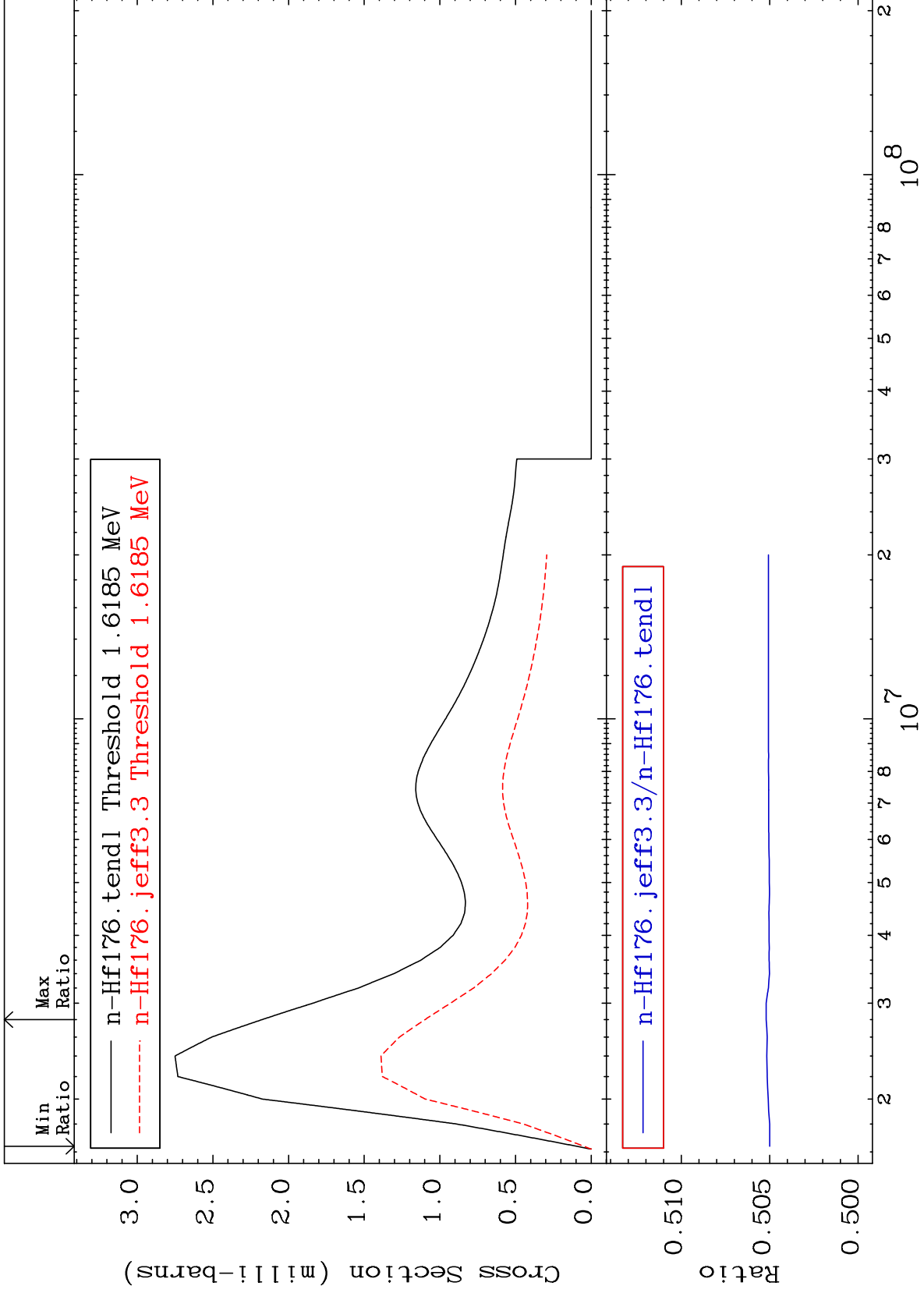
72-Hf-176  
-49.50 To -49.48%

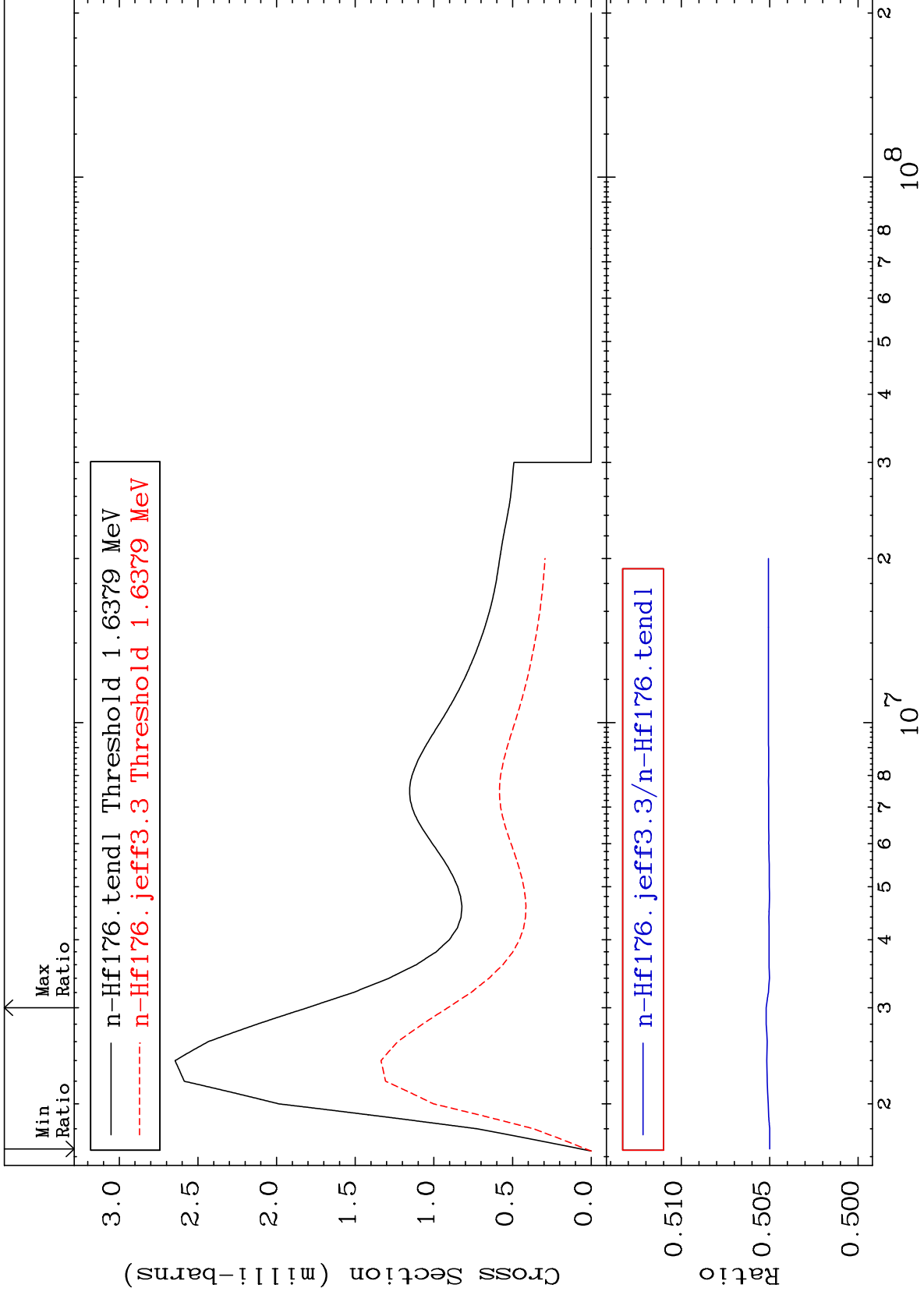


MAT 7231

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

72-Hf-176  
-49.50 To -49.48%

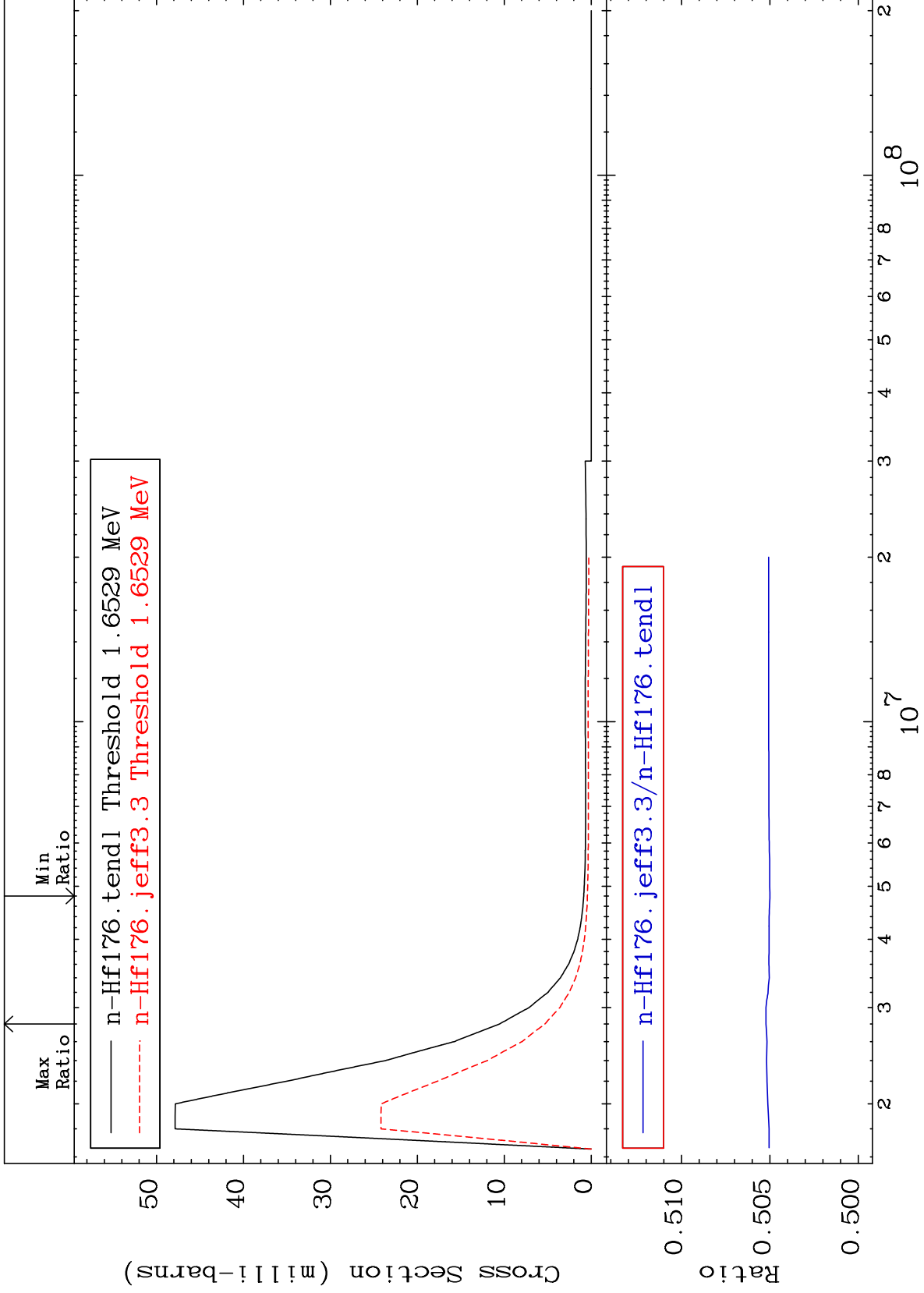




MAT 7231

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

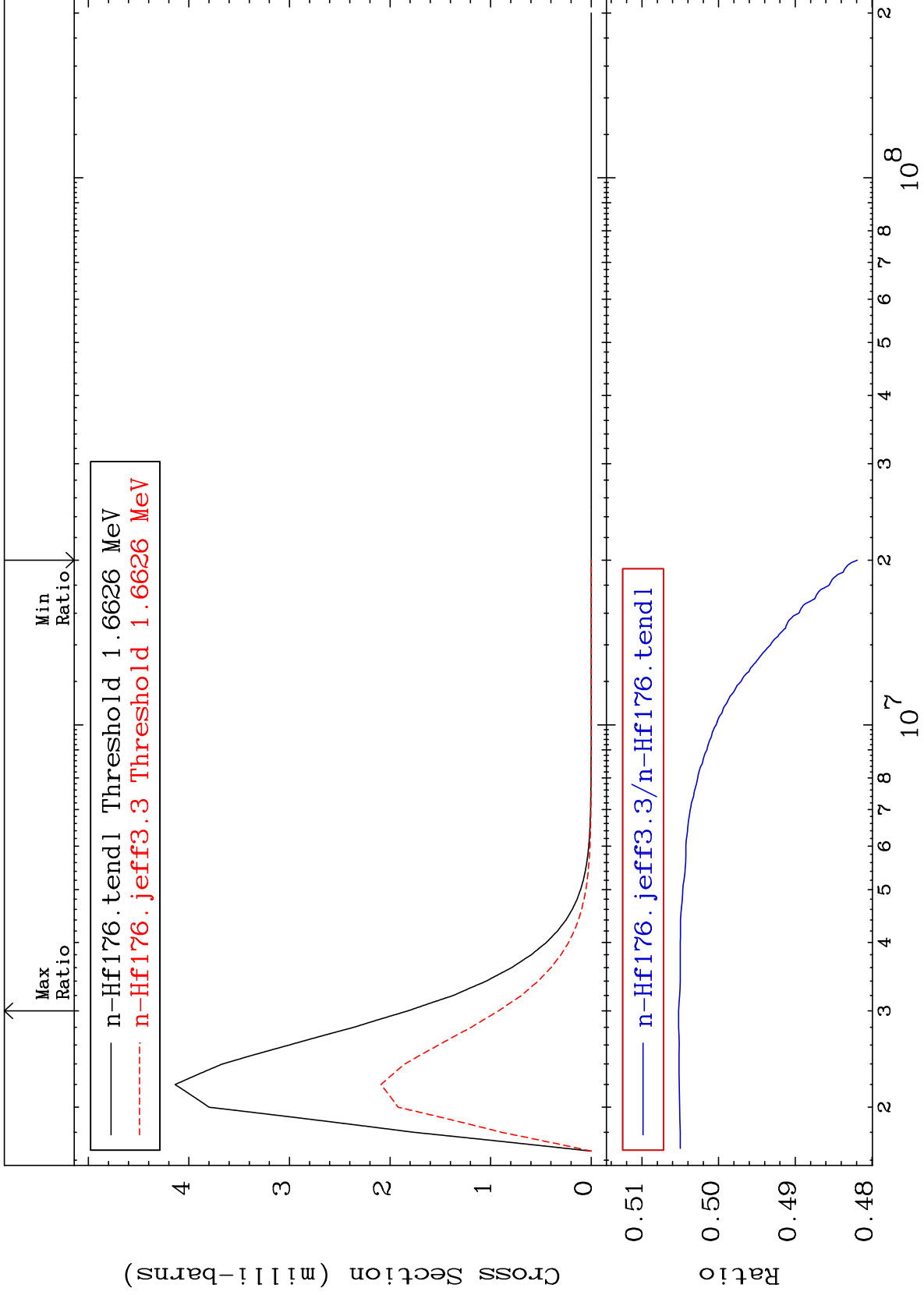
72-Hf-176  
-49.50 To -49.48%



MAT 7231

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

72-Hf-176  
-51.81 To -49.48%



40

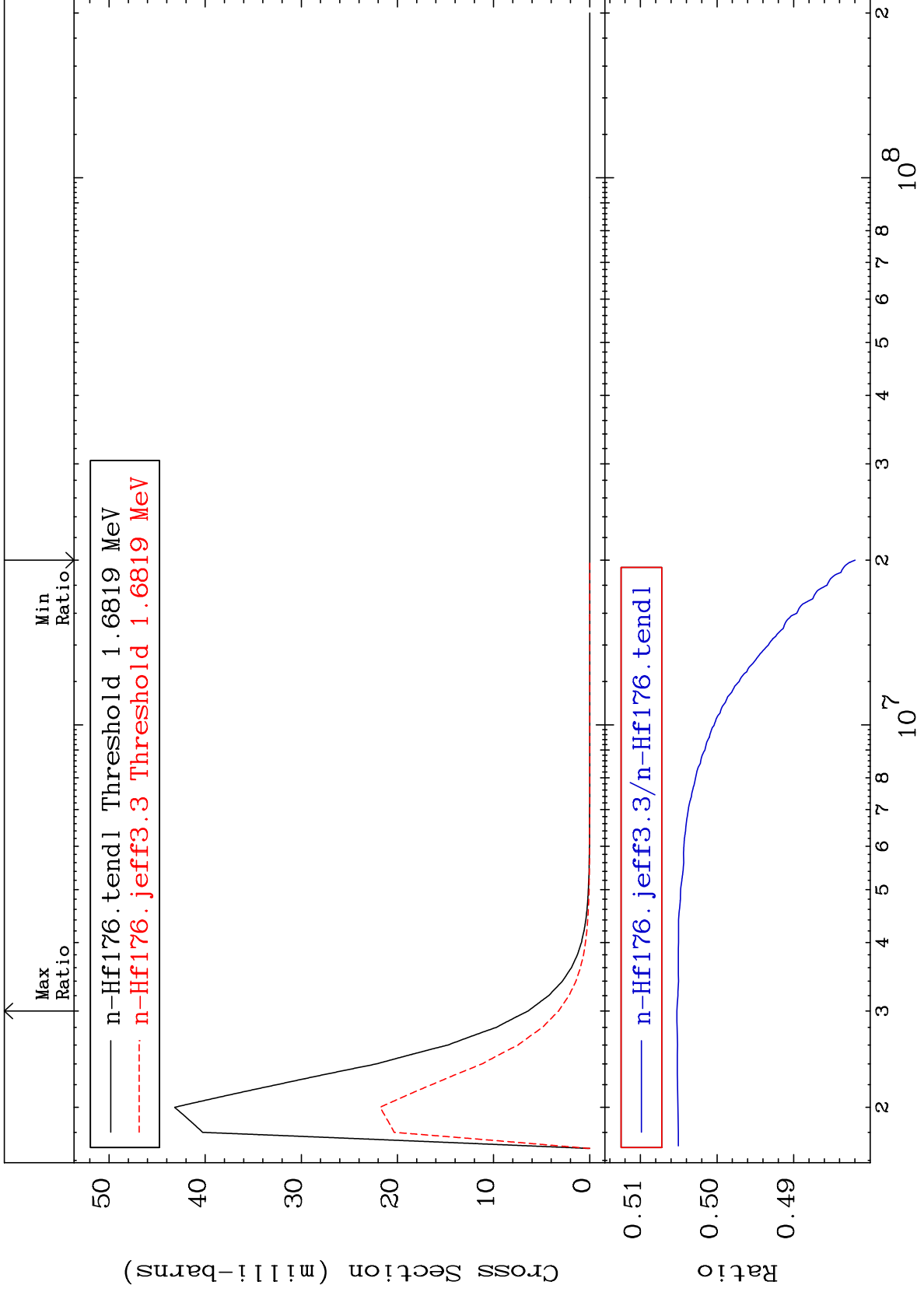
72-Hf-176

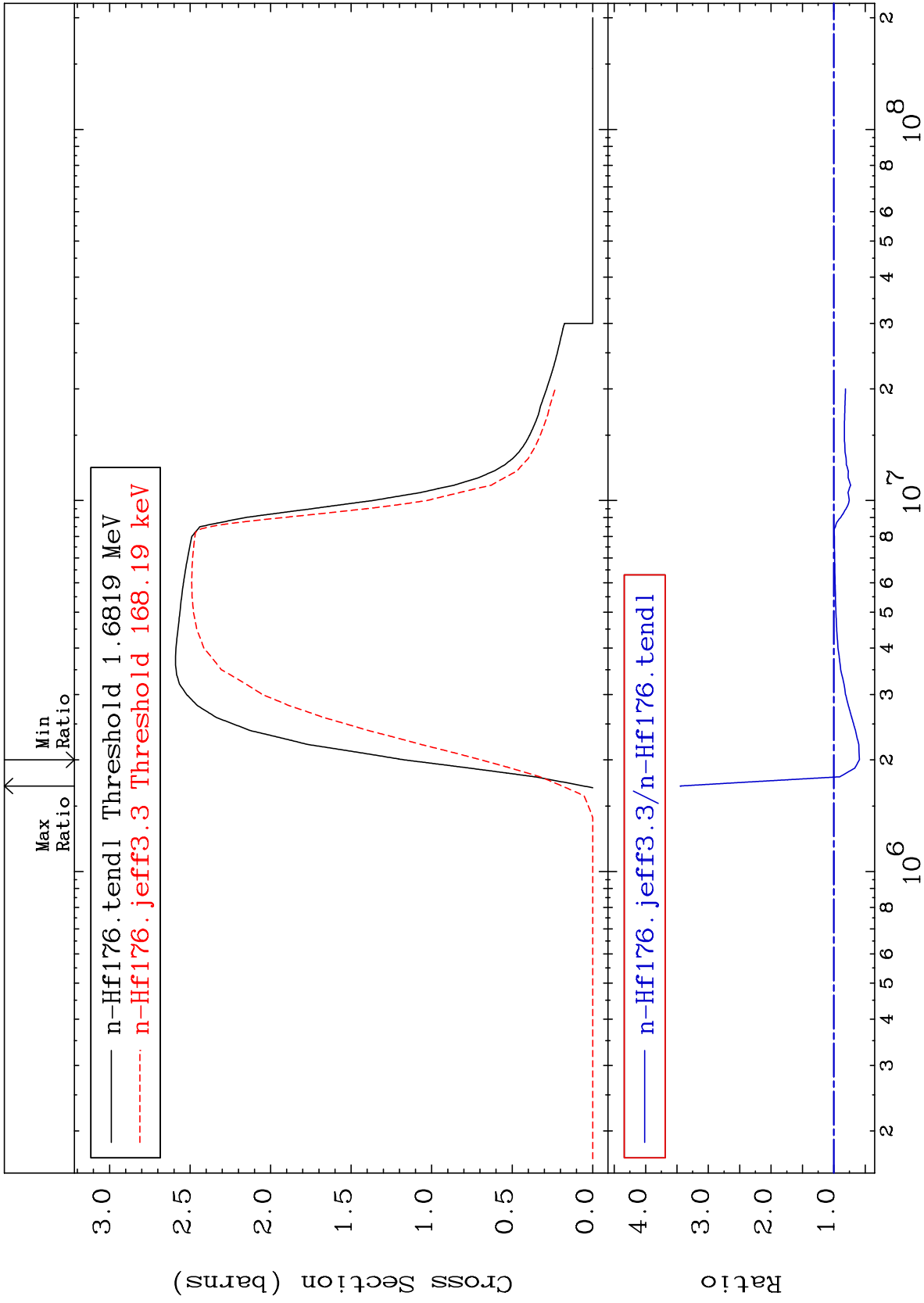


MAT 7231

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

72-Hf-176  
-51.80 To -49.48%

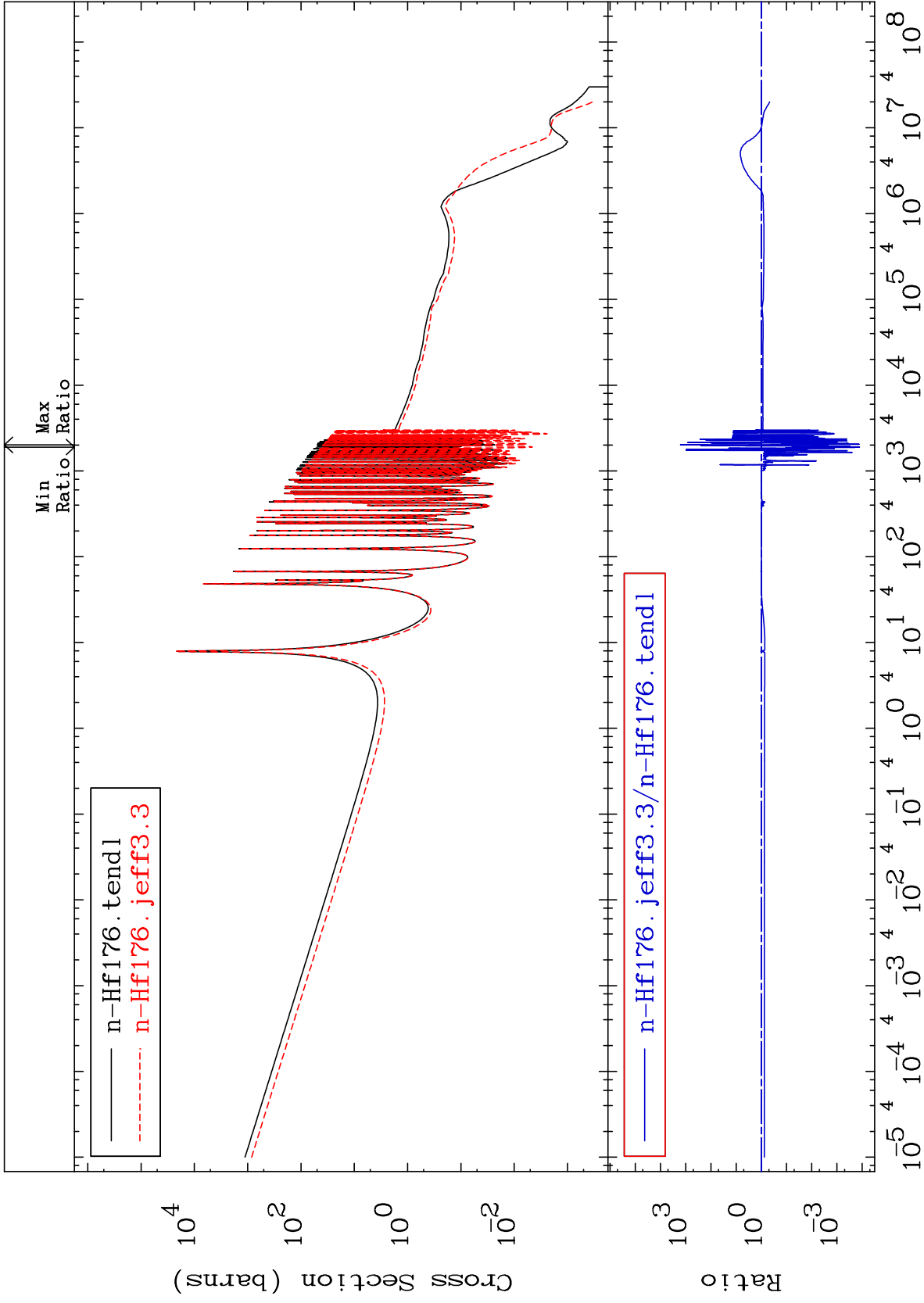


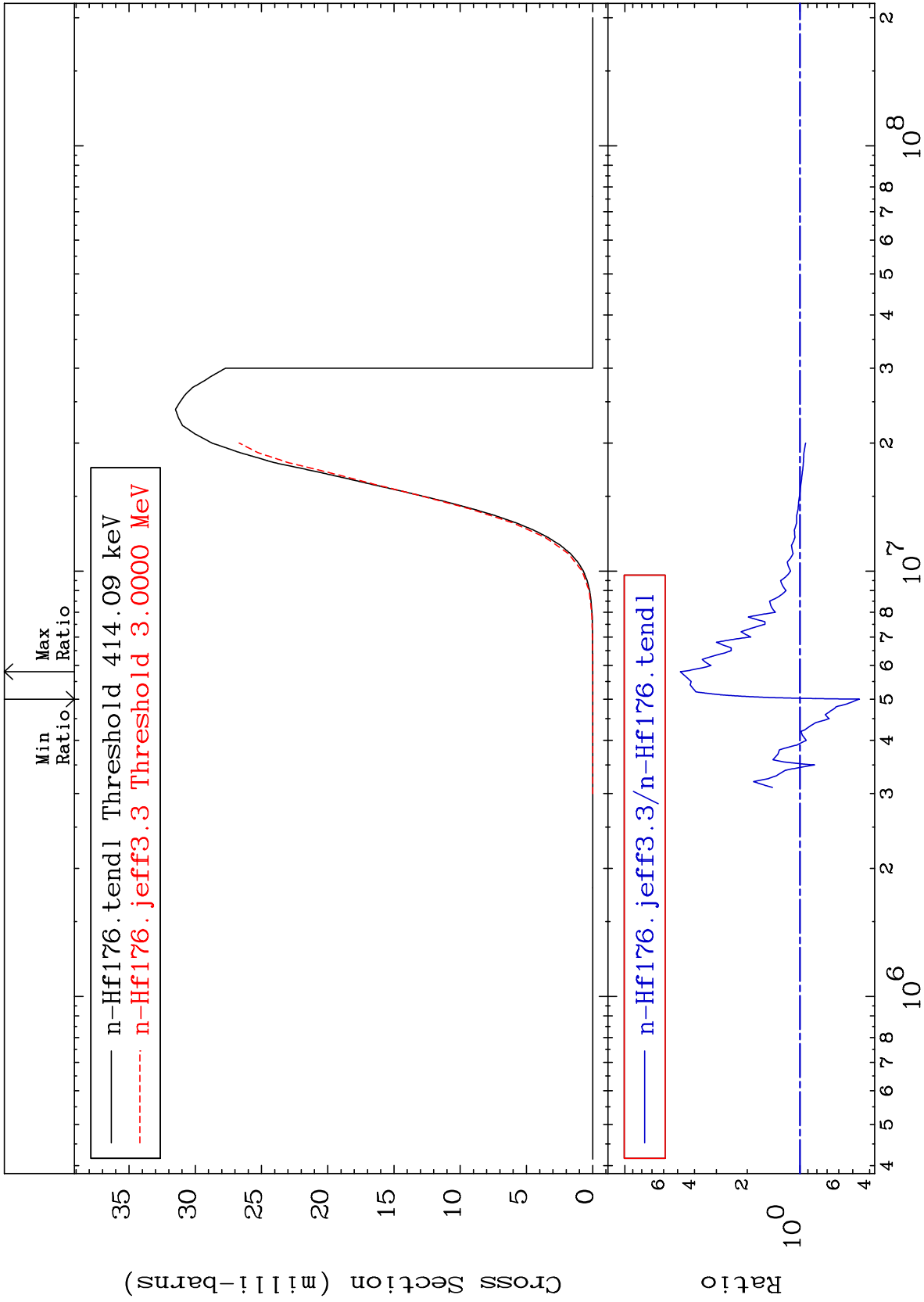


MAT 7231

(n,  $\gamma$ )  
Cross Section

72-Hf-176  
-99.99 To 9999. %





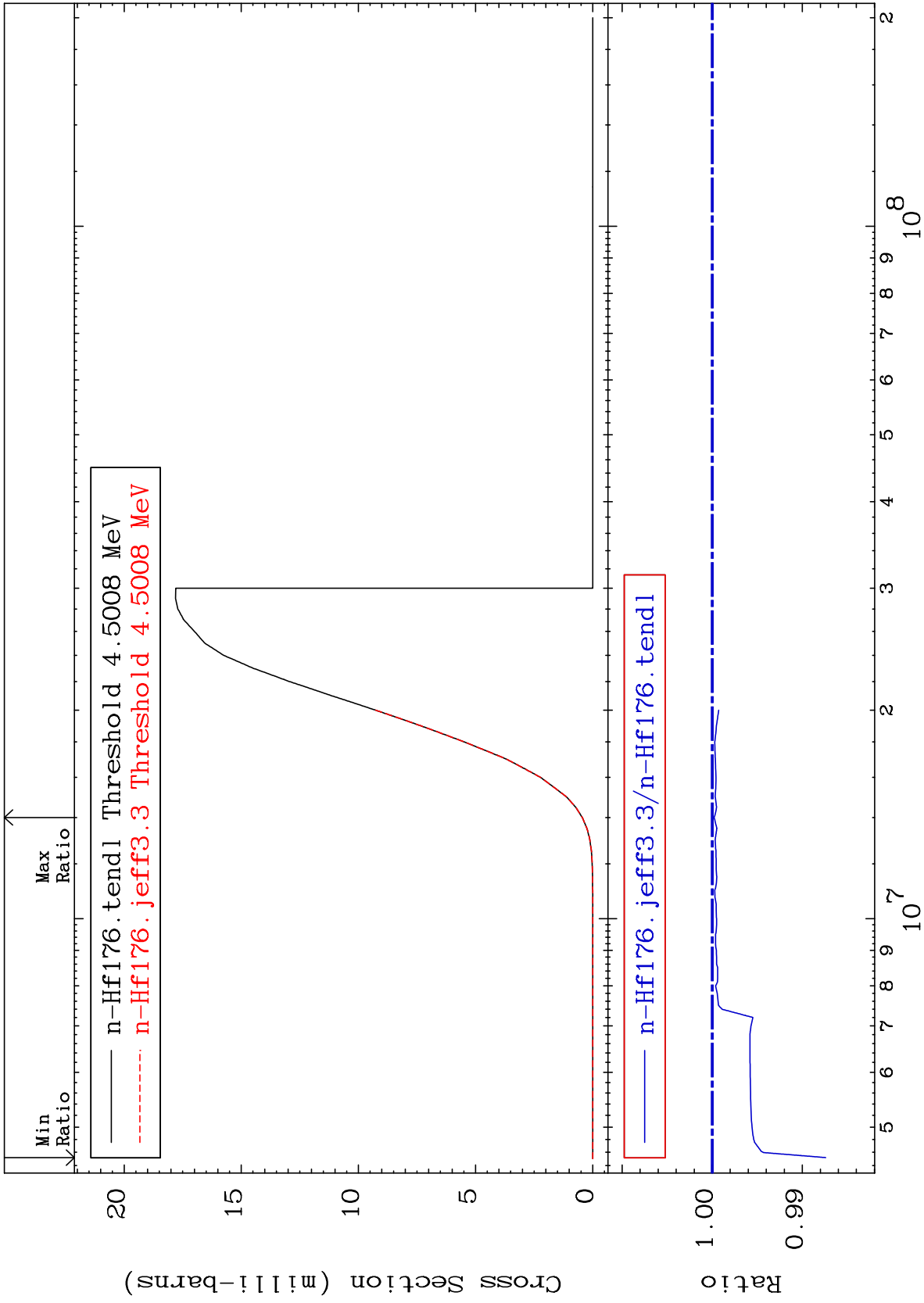
MAT 7231

(n, d)

72-Hf-176

Cross Section

-1.259 To -0.021%



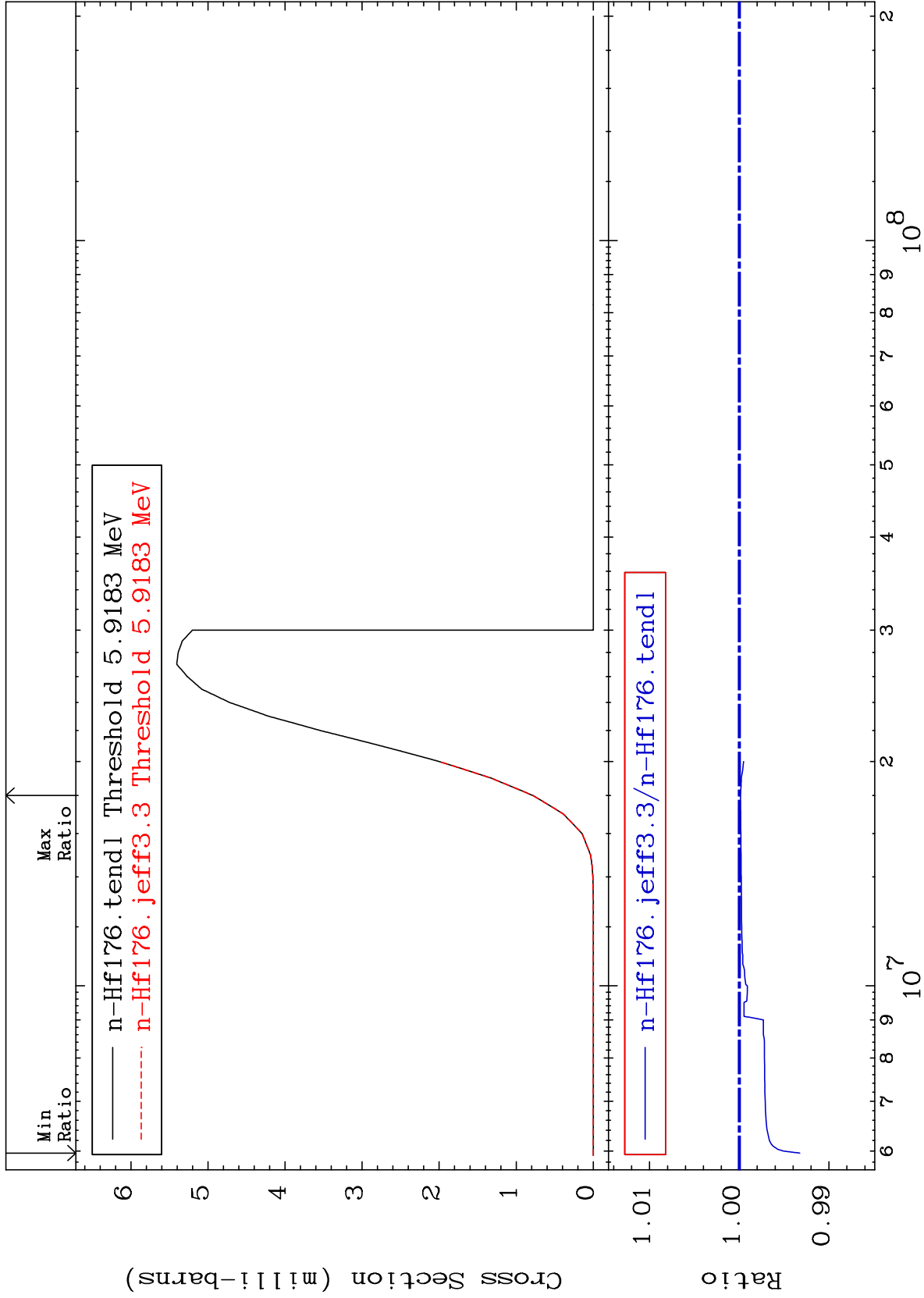
45

Incident Energy (eV)

72-Hf-176

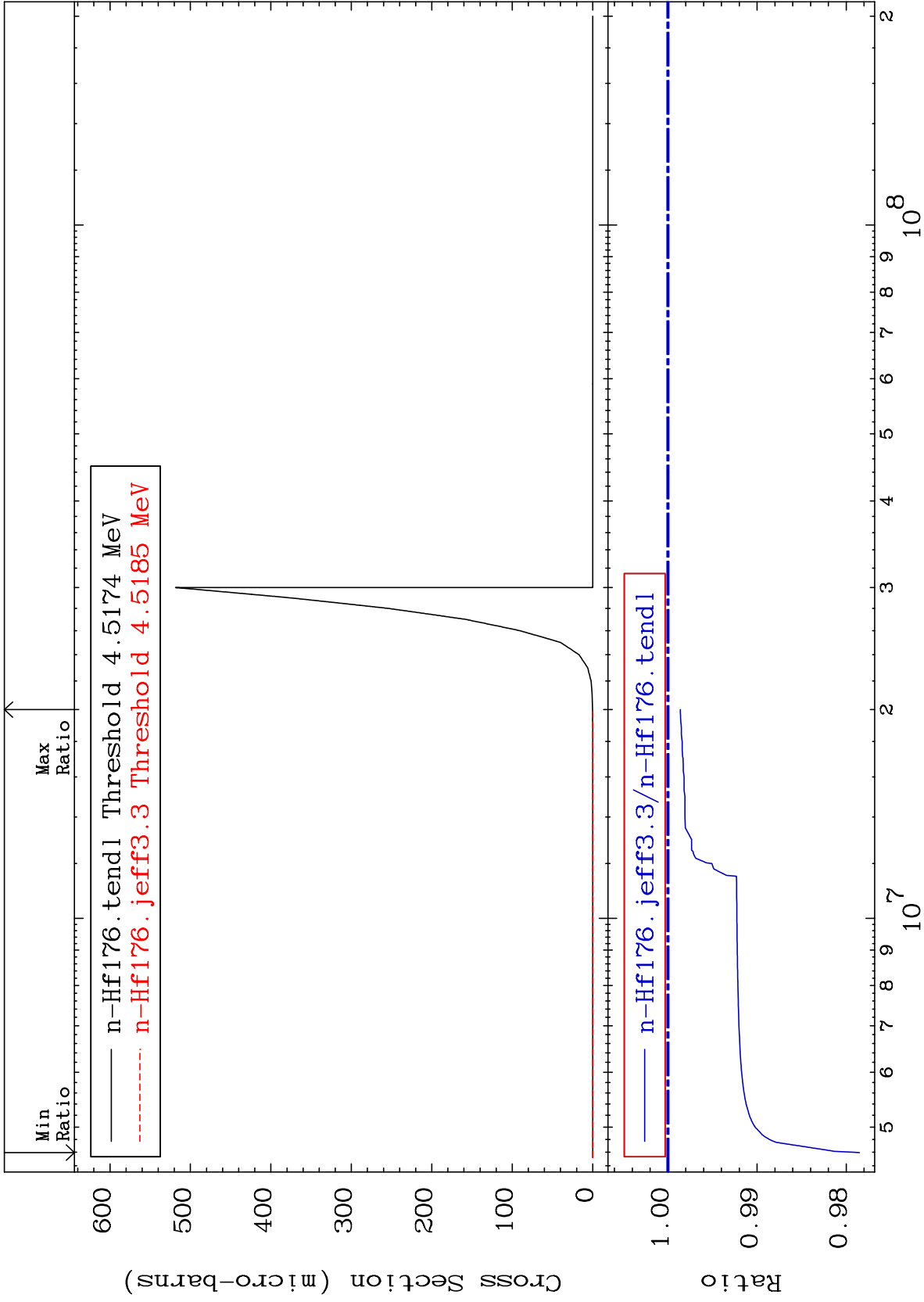
Cross Section

-0.675 To -0.013%



Cross Section

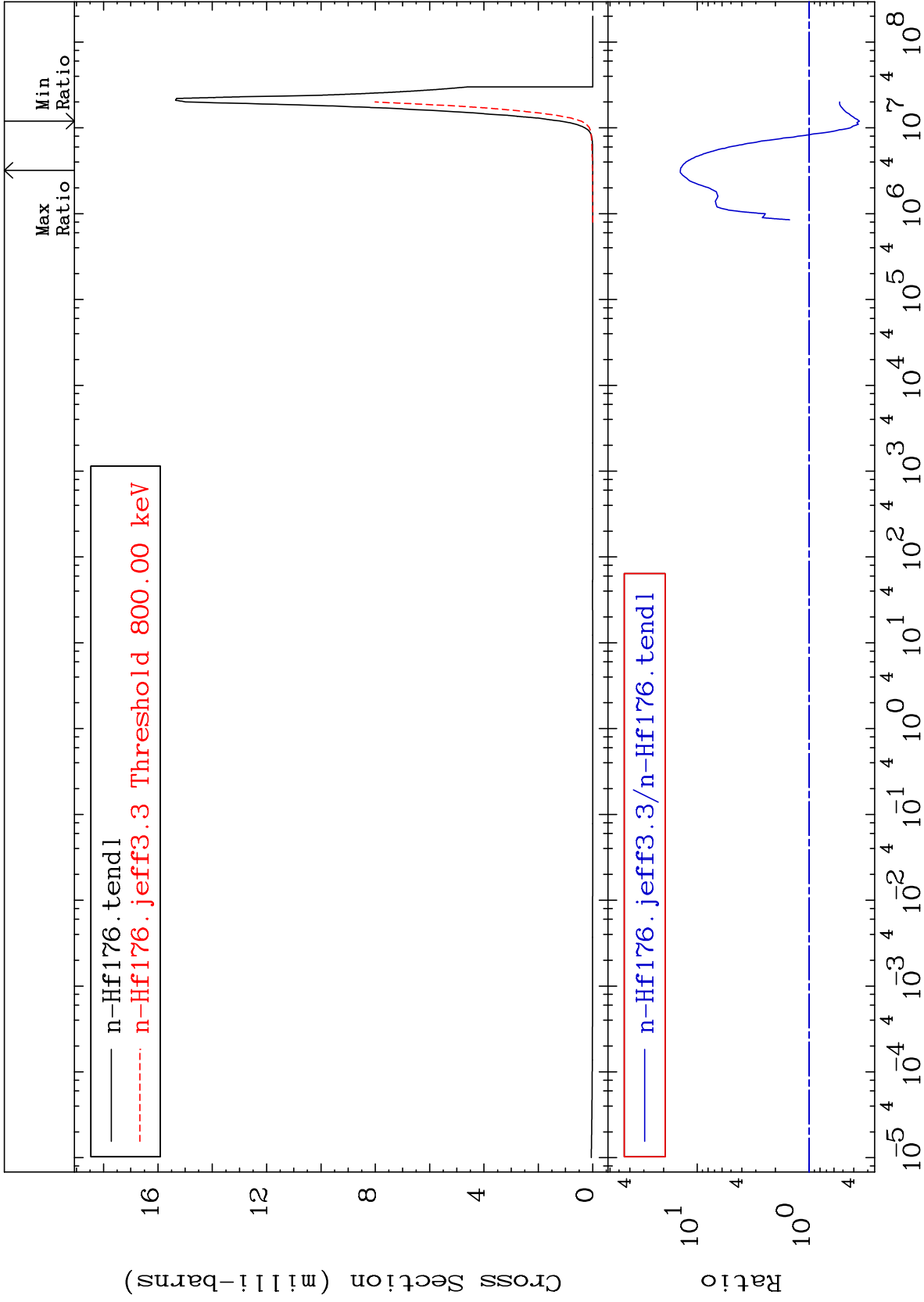
-2.148 To -0.140%



MAT 7231

(n,  $\alpha$ )  
Cross Section

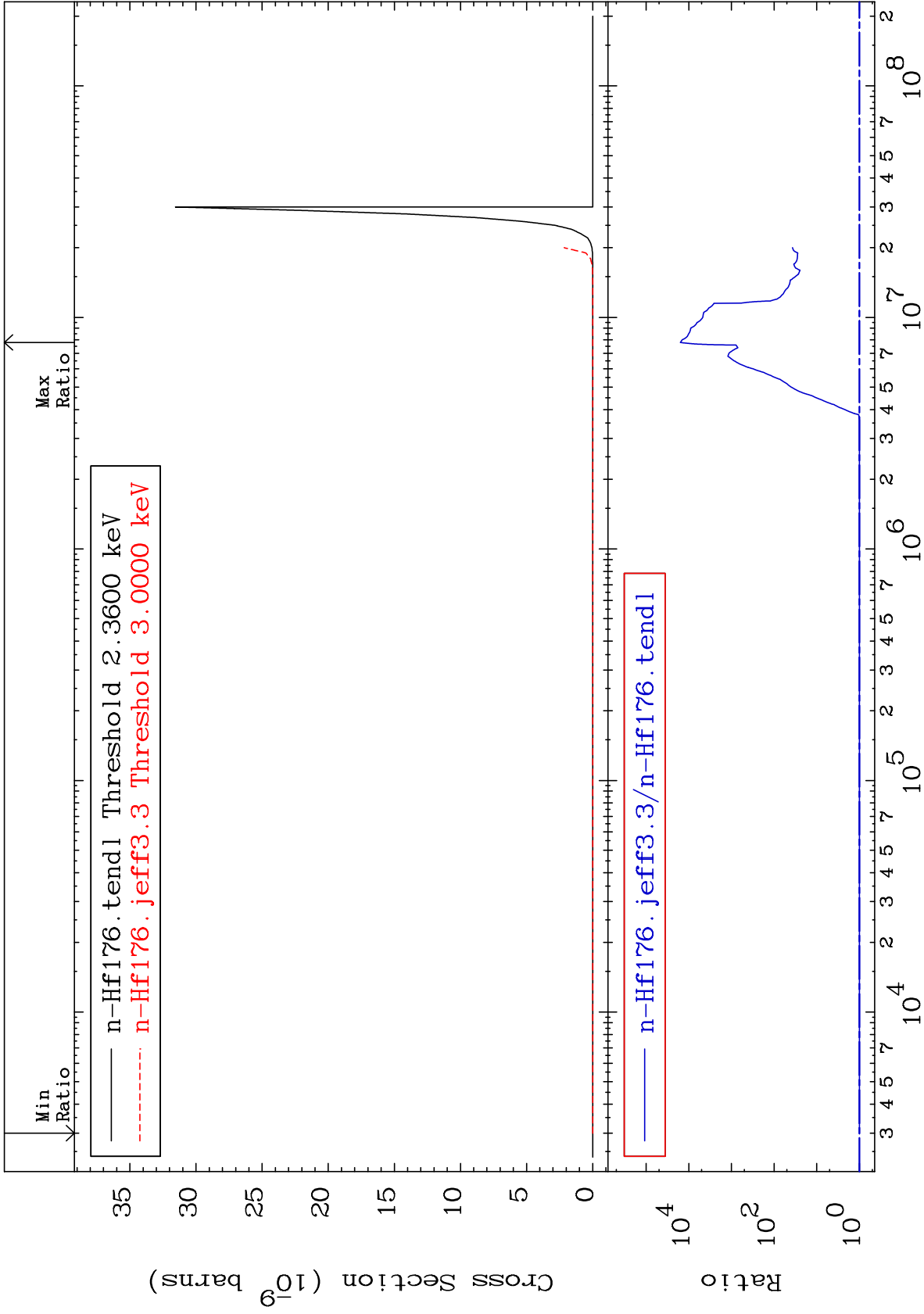
72-Hf-176  
-64.41 To 1315. %

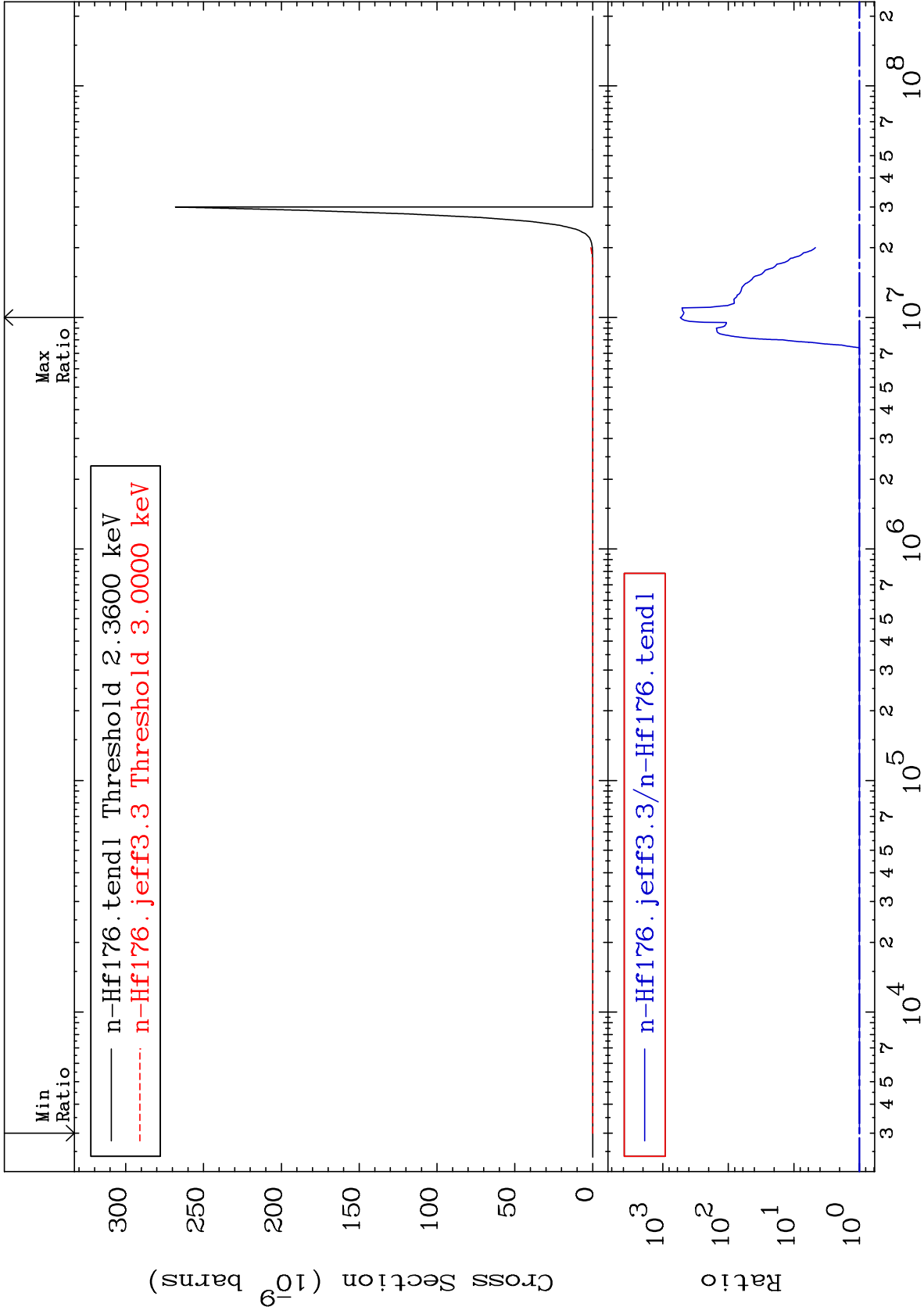


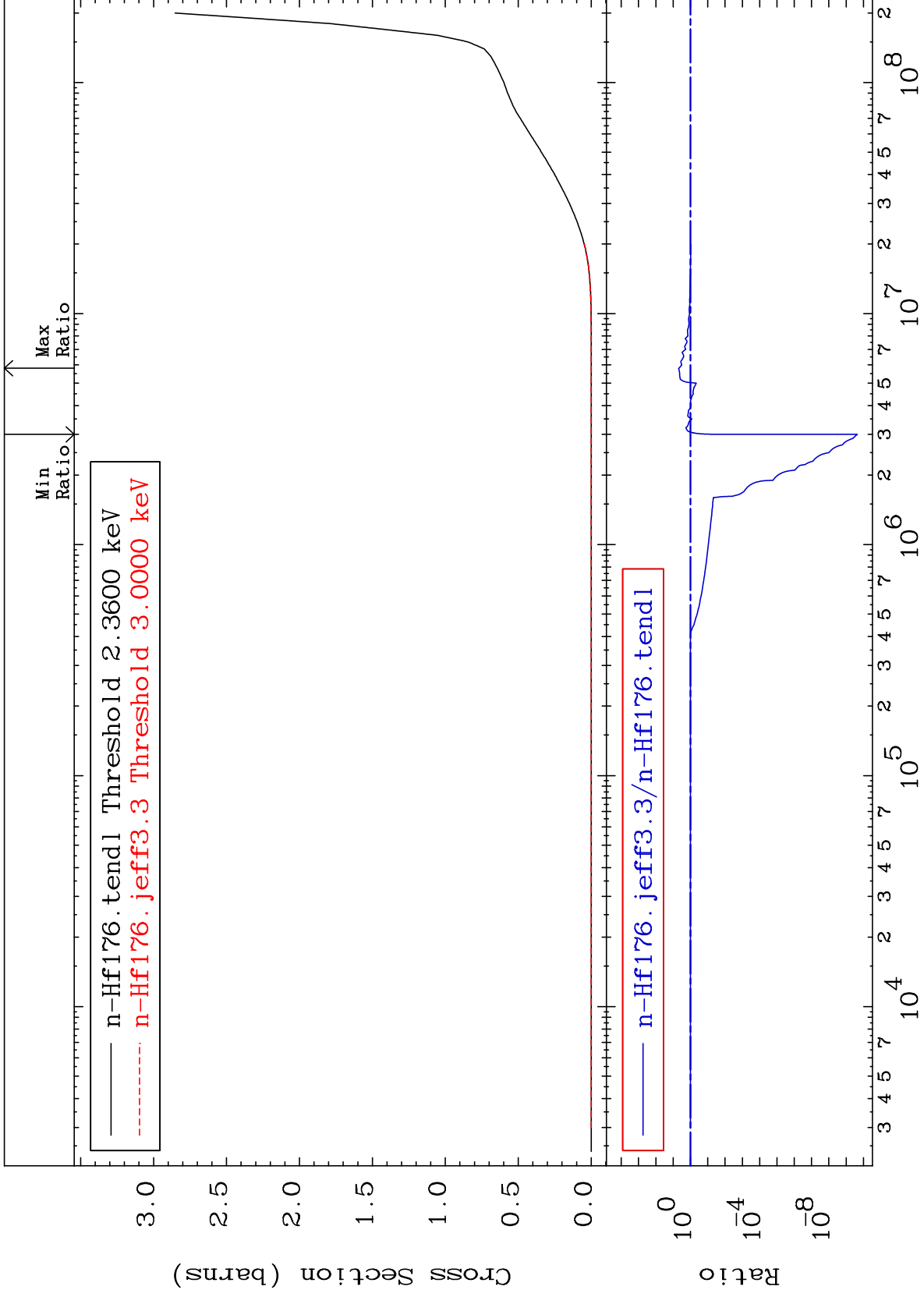


Cross Section

0.000 To 9999. %



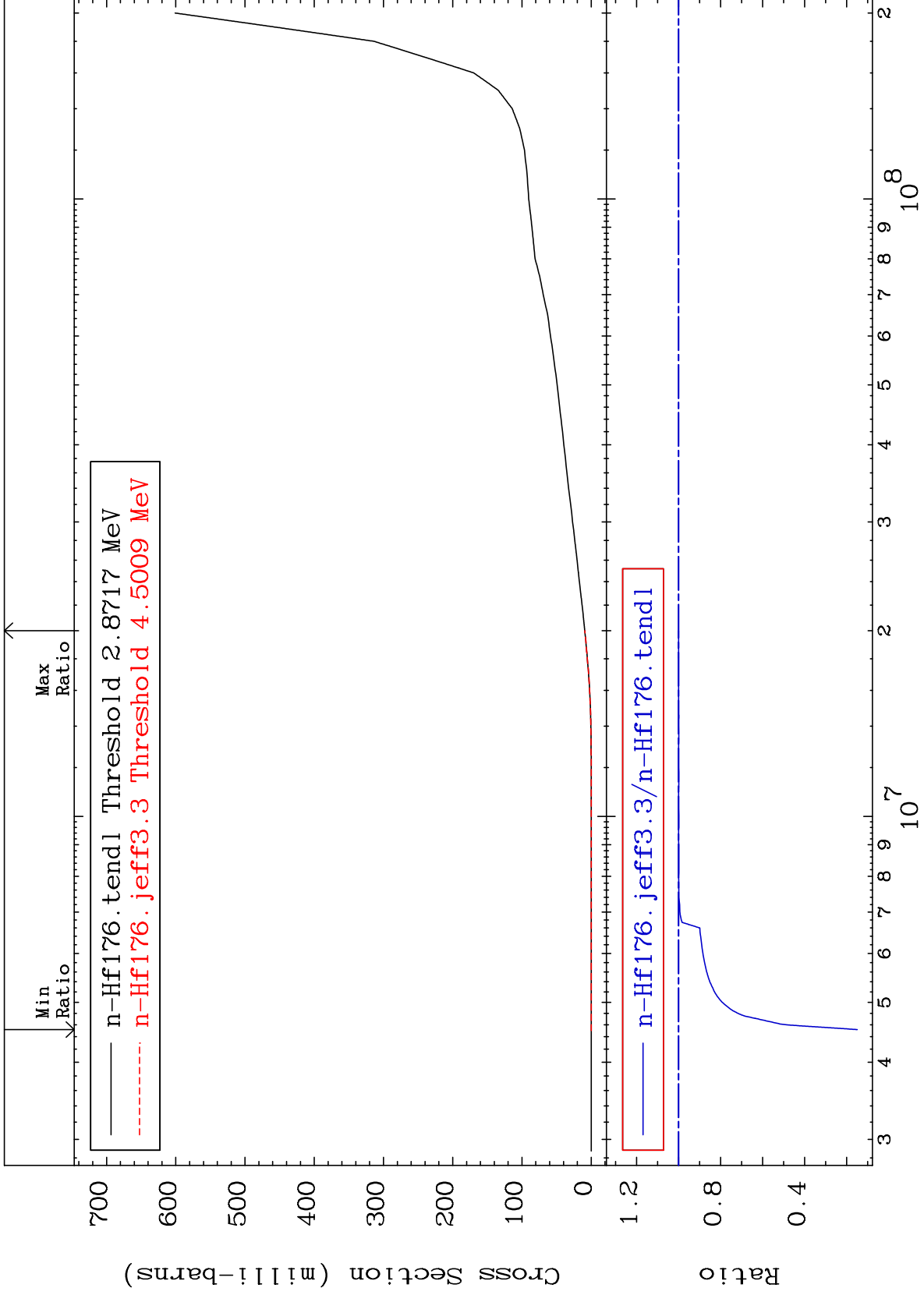




MAT 7231

Deuterium Production  
Cross Section

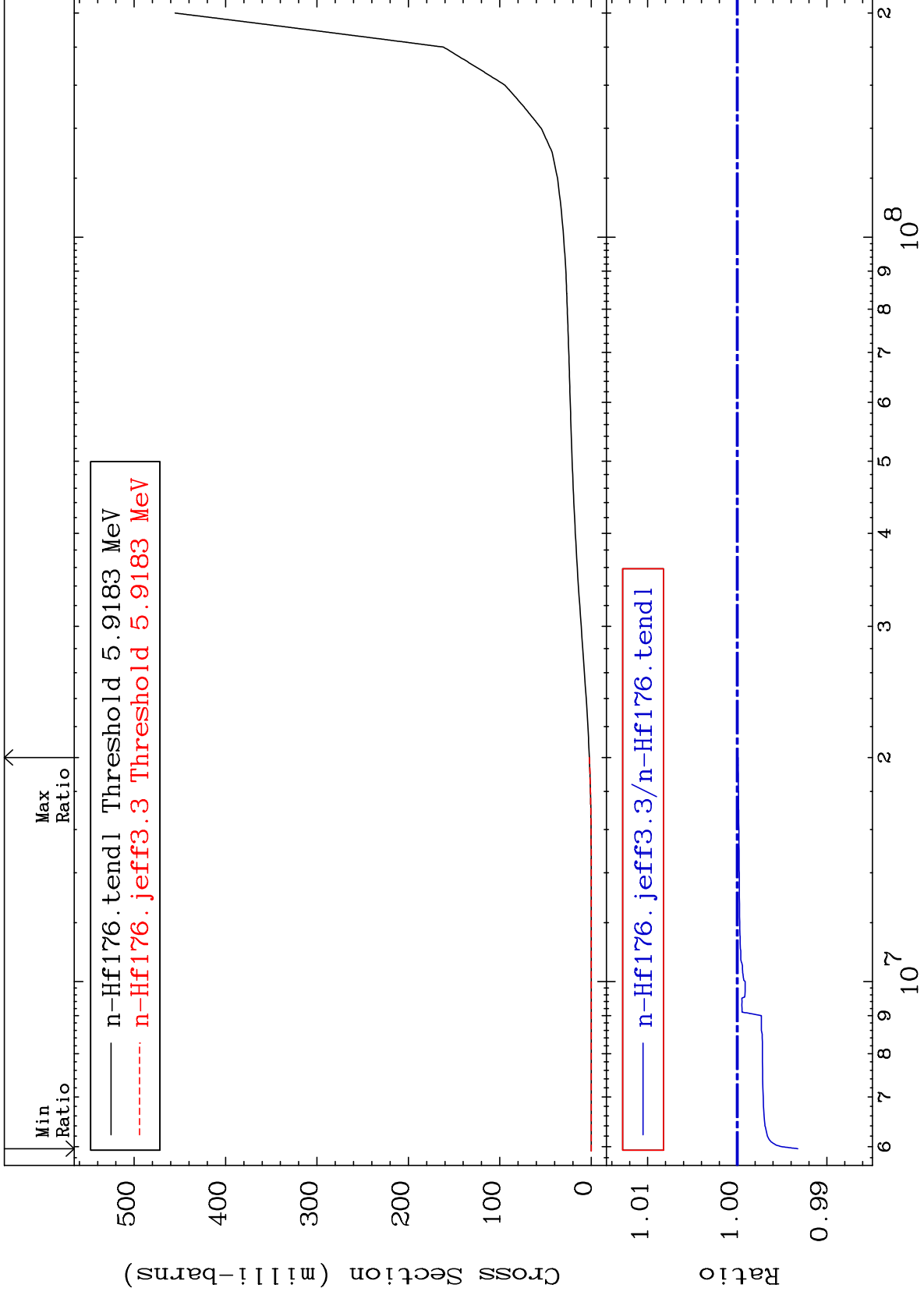
<sup>72</sup>Hf-176  
-85.03 To -0.017%



MAT 7231

Tritium Production  
Cross Section

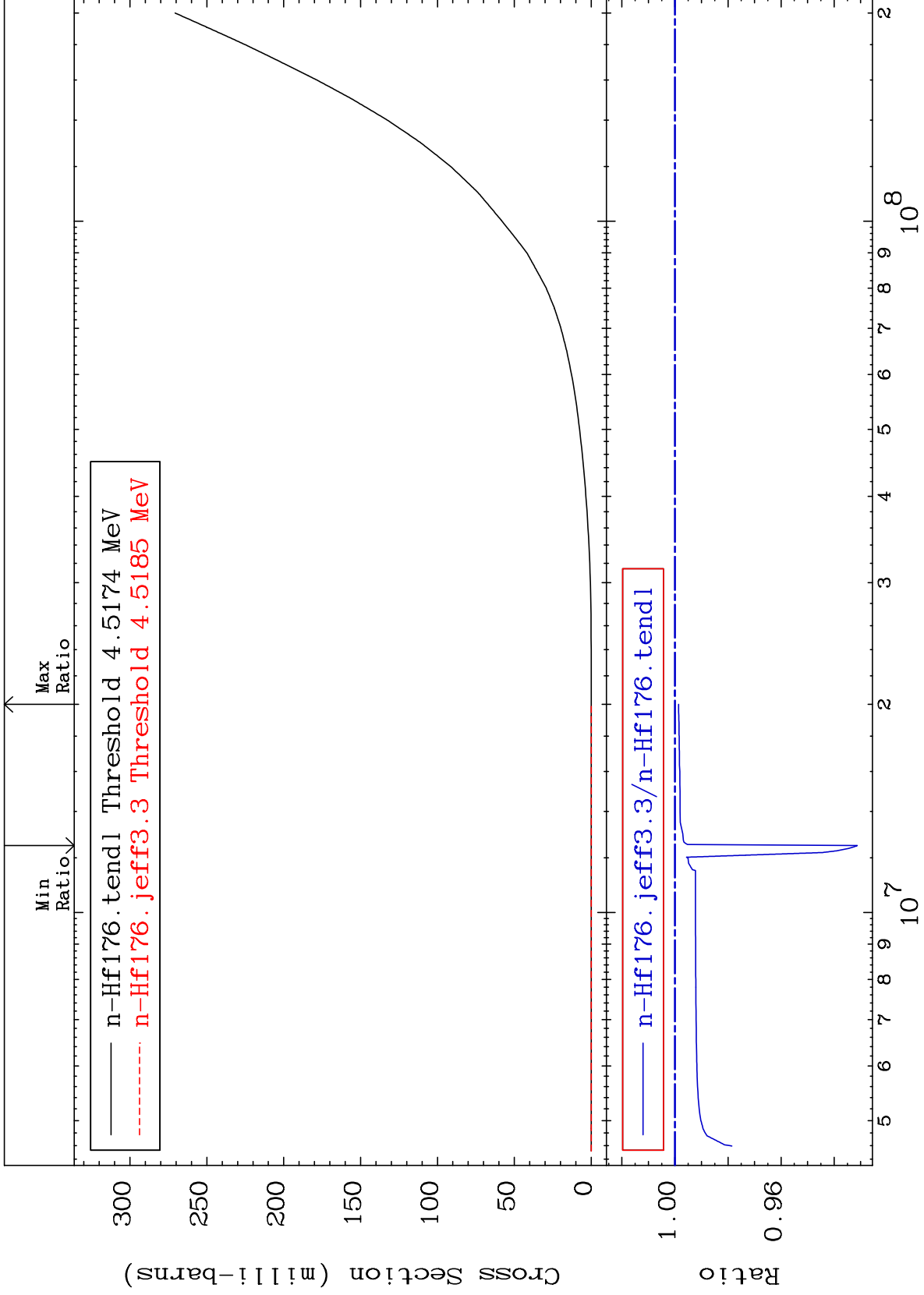
<sup>72</sup>Hf-176  
-0.675 To -0.010%



MAT 7231

He-3 Production  
Cross Section

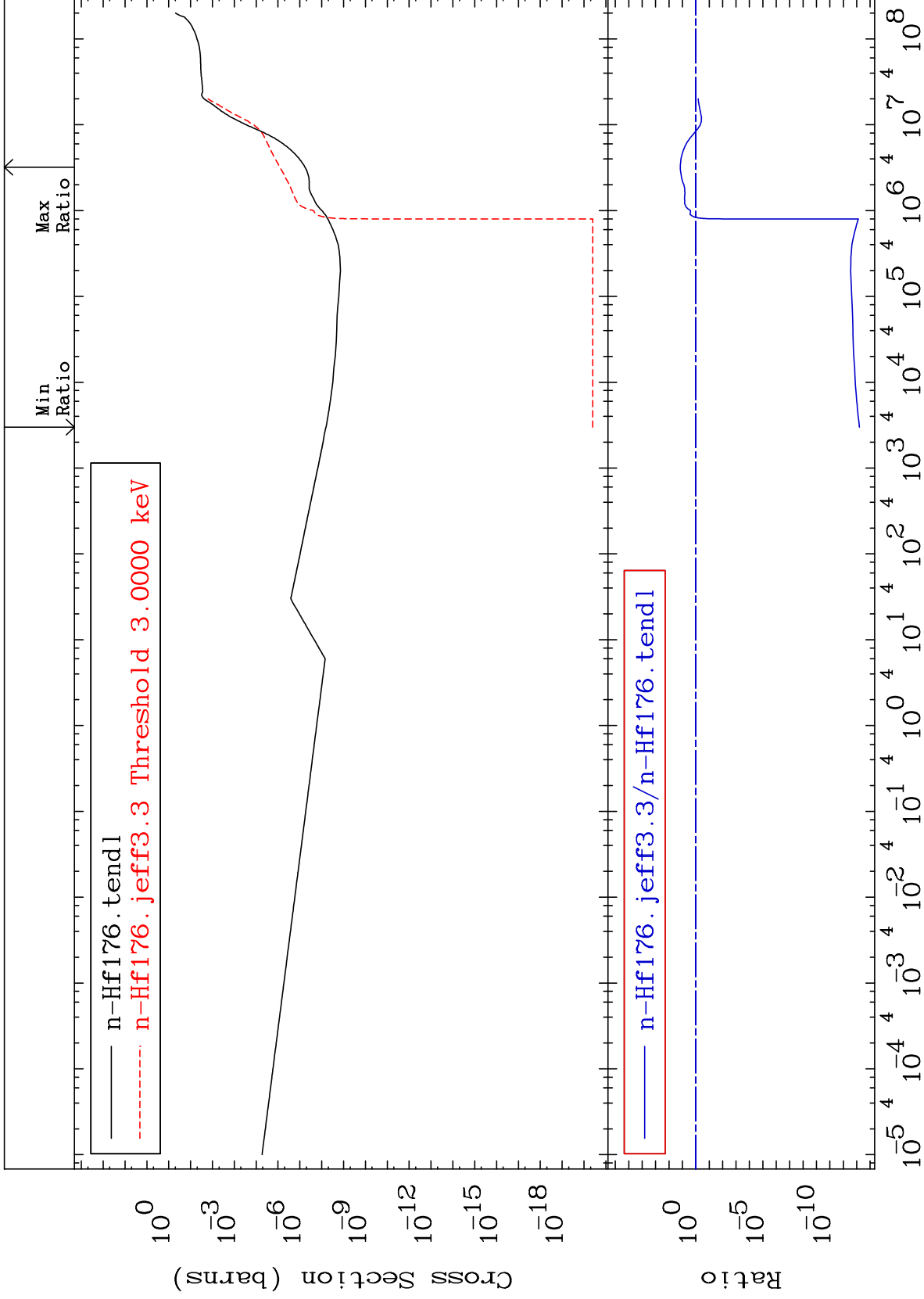
<sup>72</sup>Hf-176  
-6.872 To -0.140%

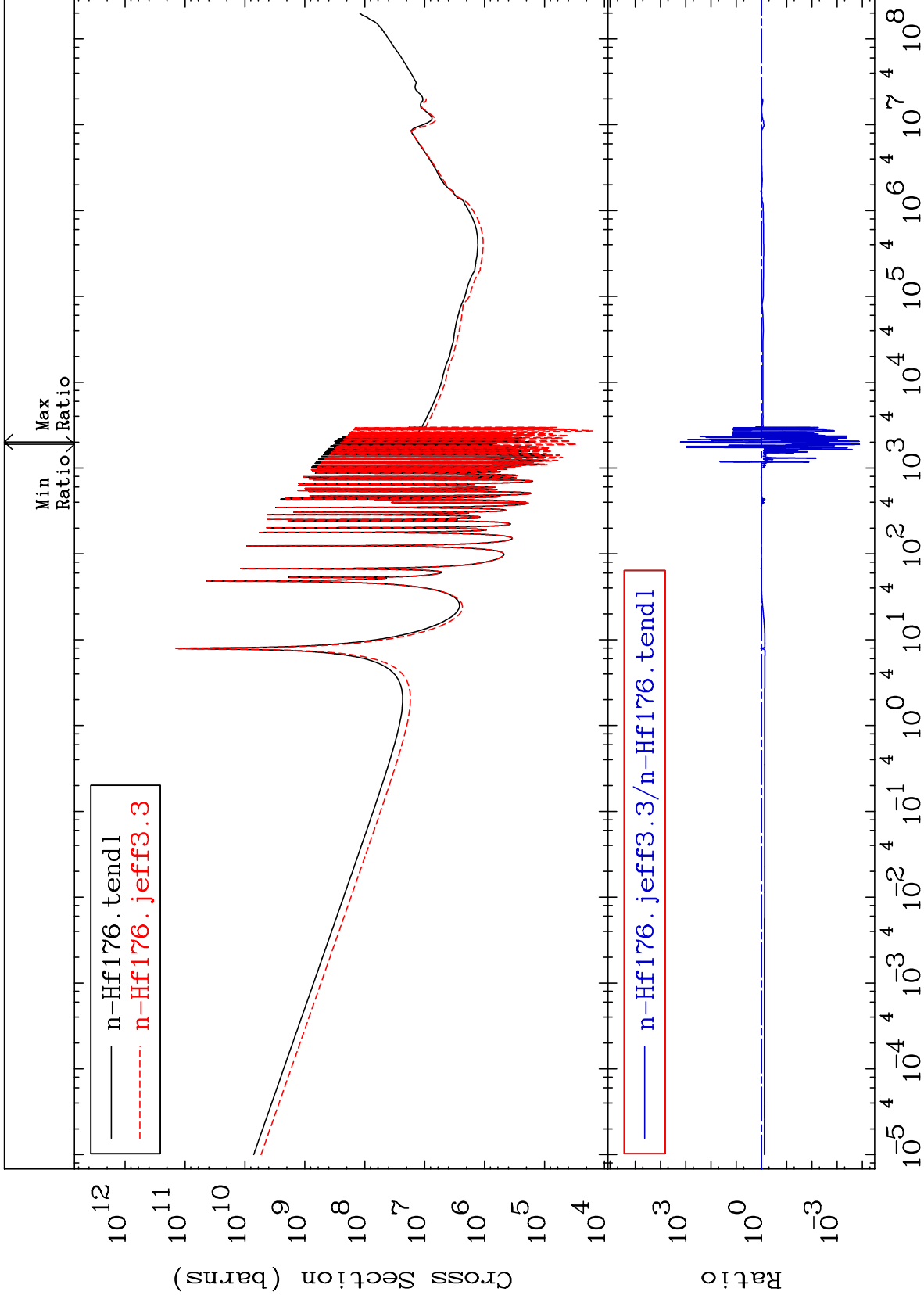


MAT 7231

He-4 Production  
Cross Section

<sup>72</sup>Hf-176  
-100.0 To 1315. %



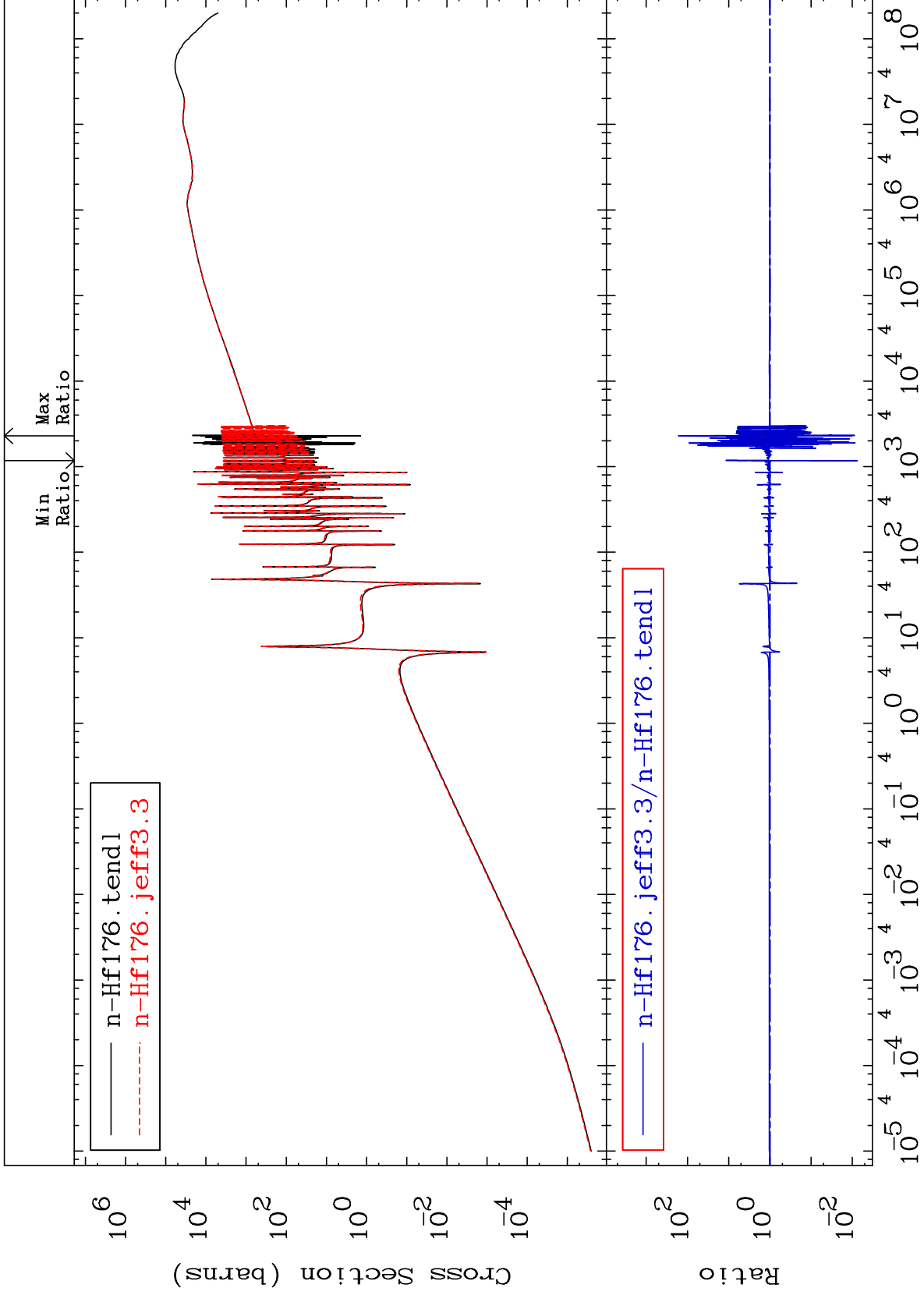




MAT 7231

Kerma elastic  
Cross Section

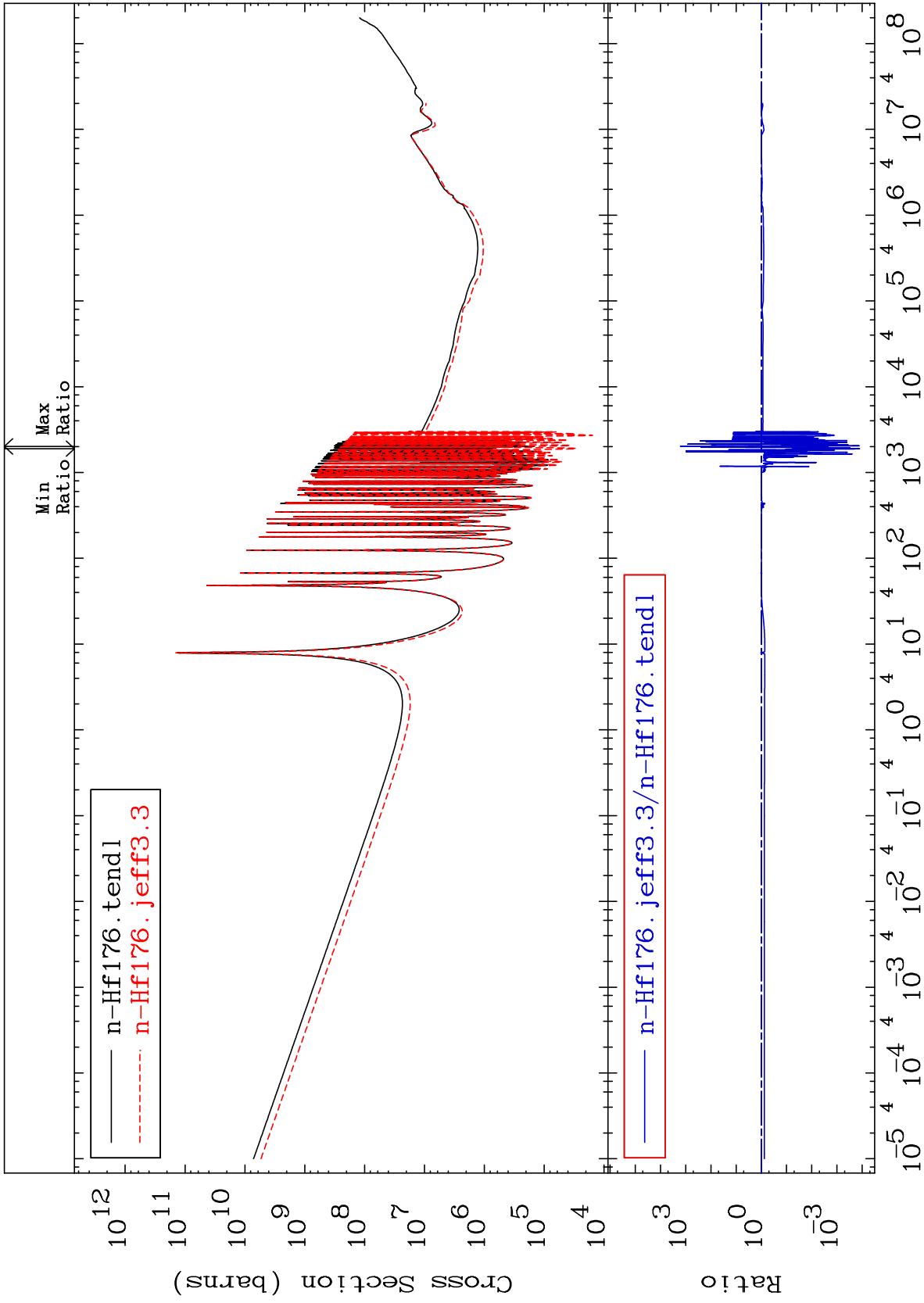
72-Hf-176  
-99.24 To 9999. %

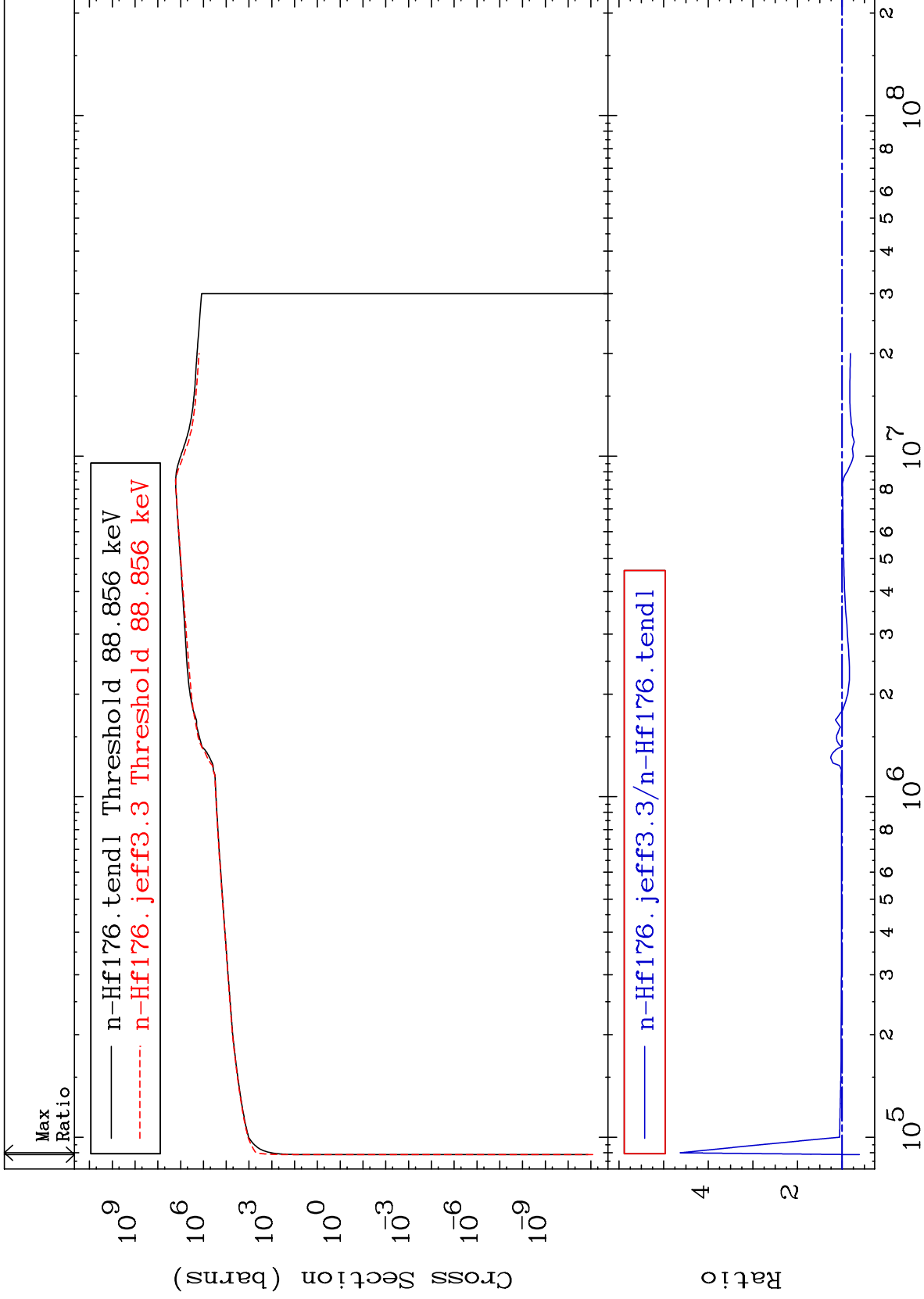


57

Incident Energy (eV)

72-Hf-176

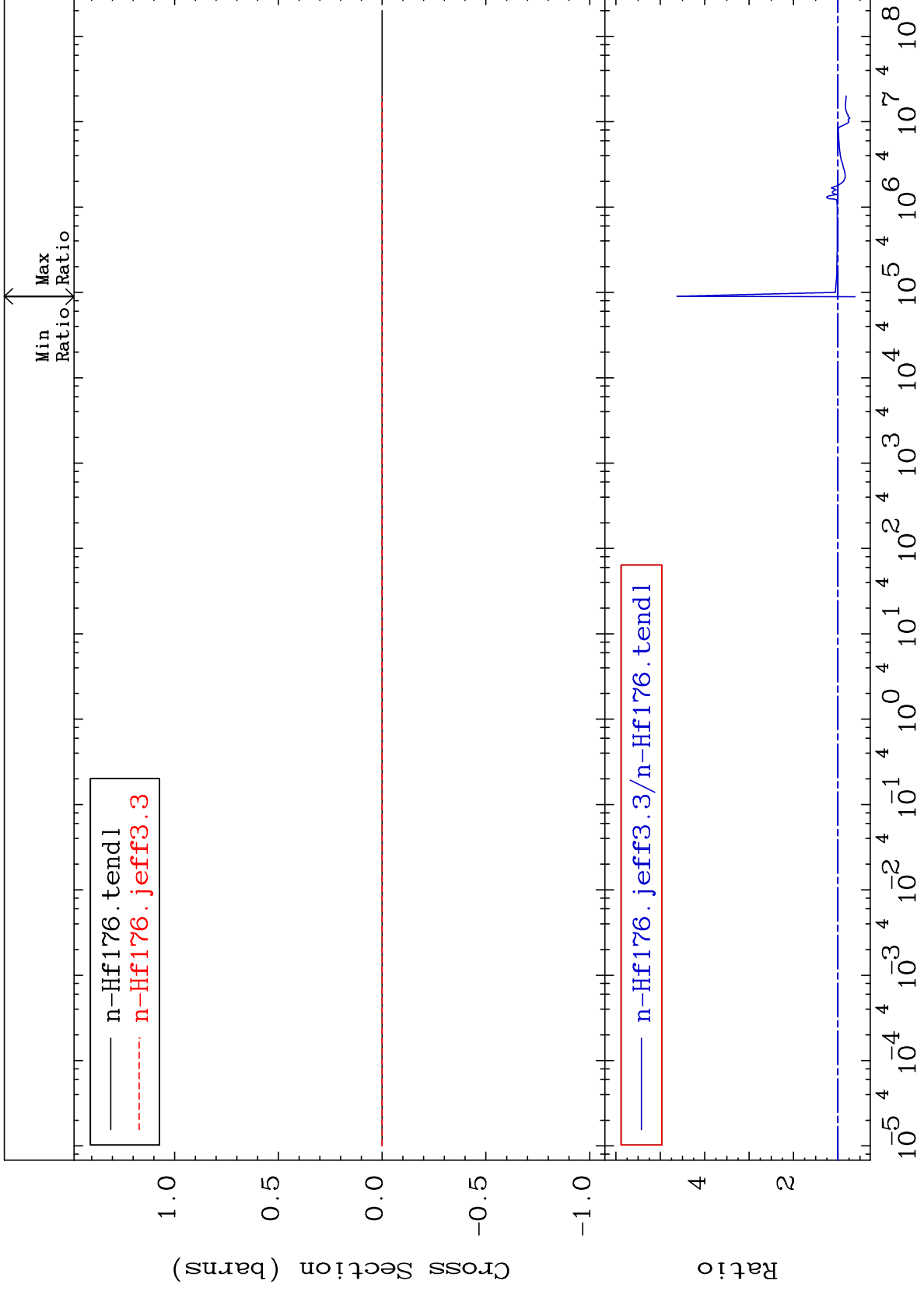




MAT 7231

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

72-Hf-176  
-38.66 To 362.6 %



60

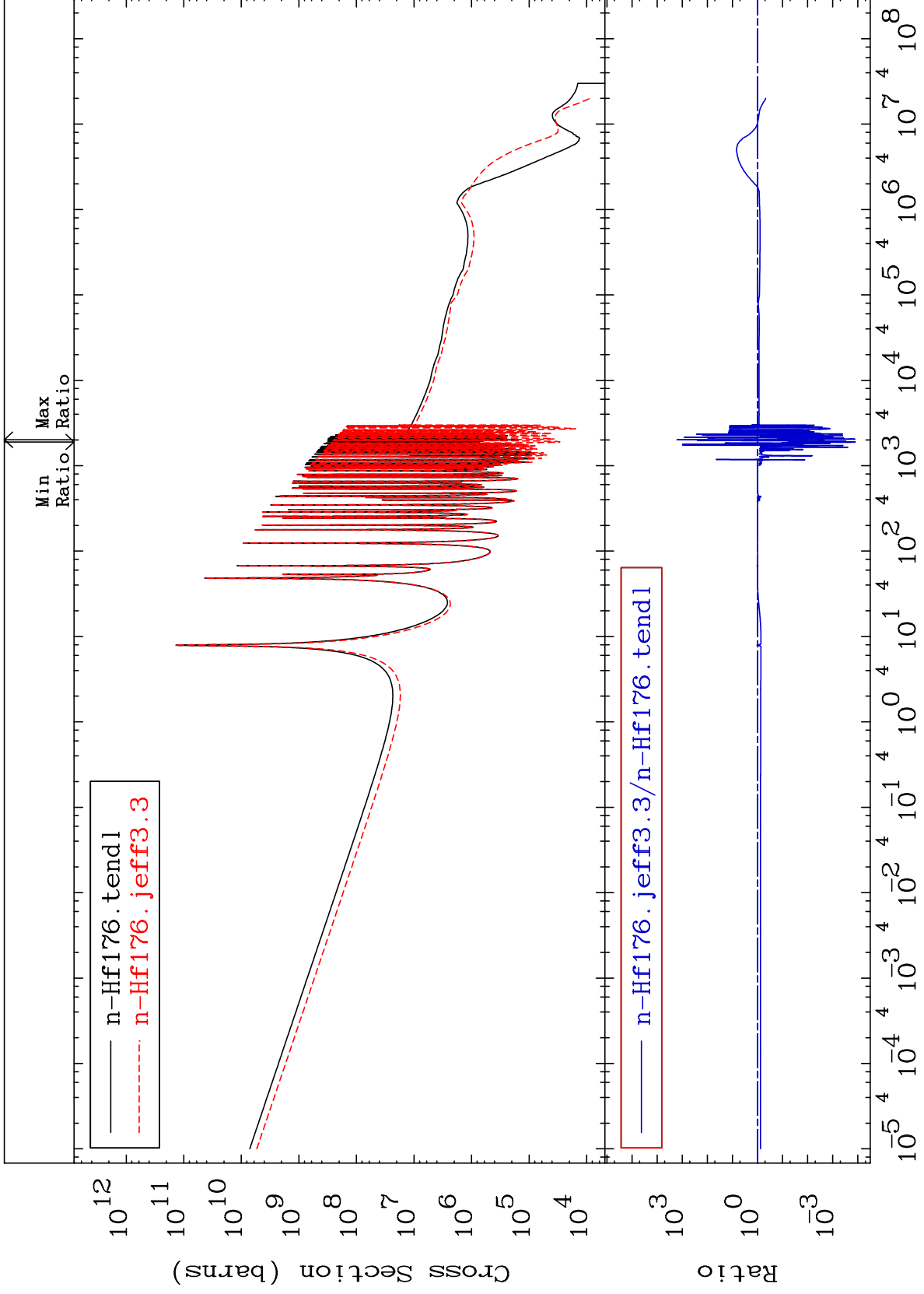
Incident Energy (eV)

72-Hf-176

MAT 7231

Kerma capture (mt102)  
Cross Section

72-Hf-176  
-99.99 To 9999. %



61

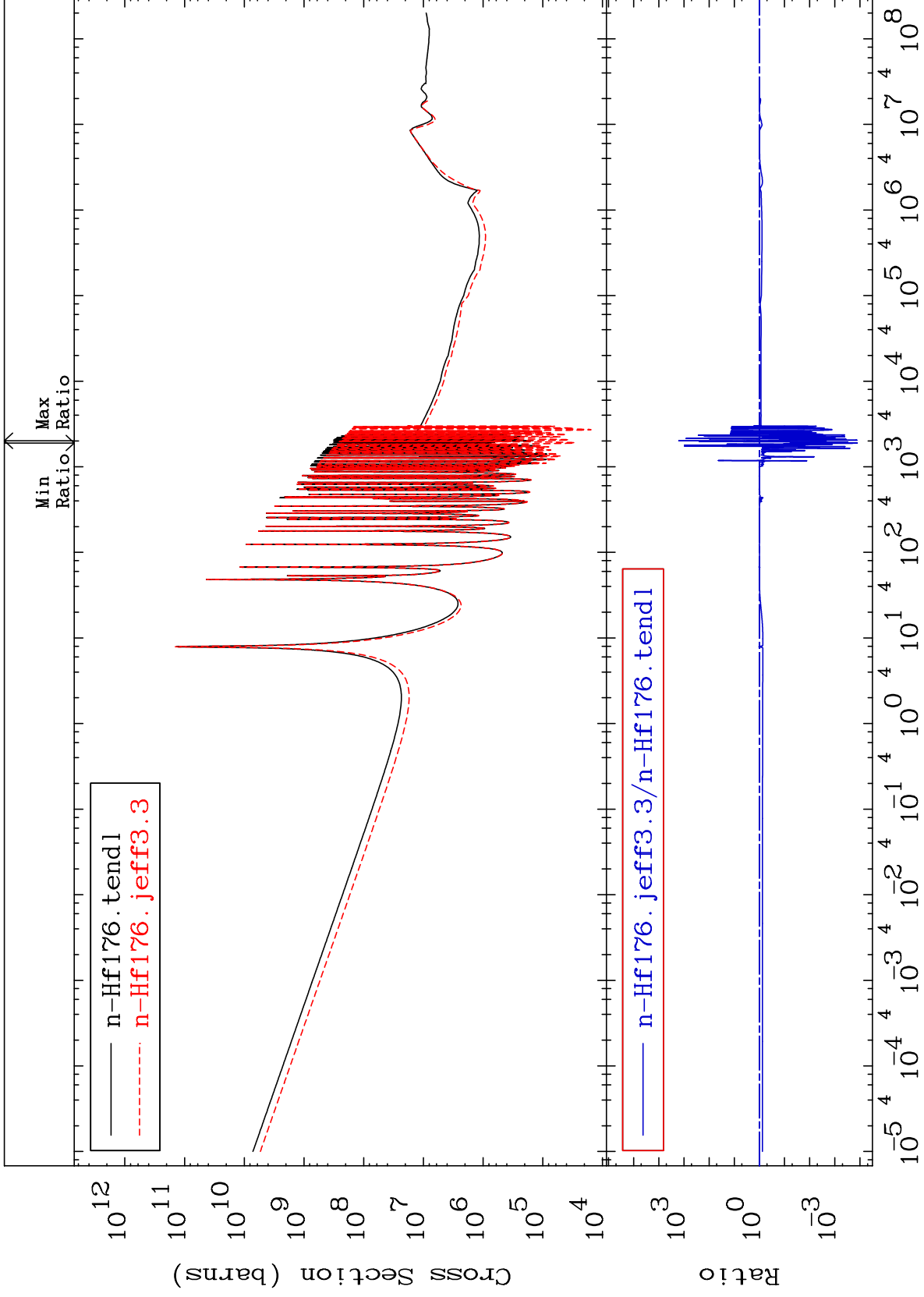
Incident Energy (eV)

72-Hf-176

MAT 7231

Total photon (eV-barns)  
Cross Section

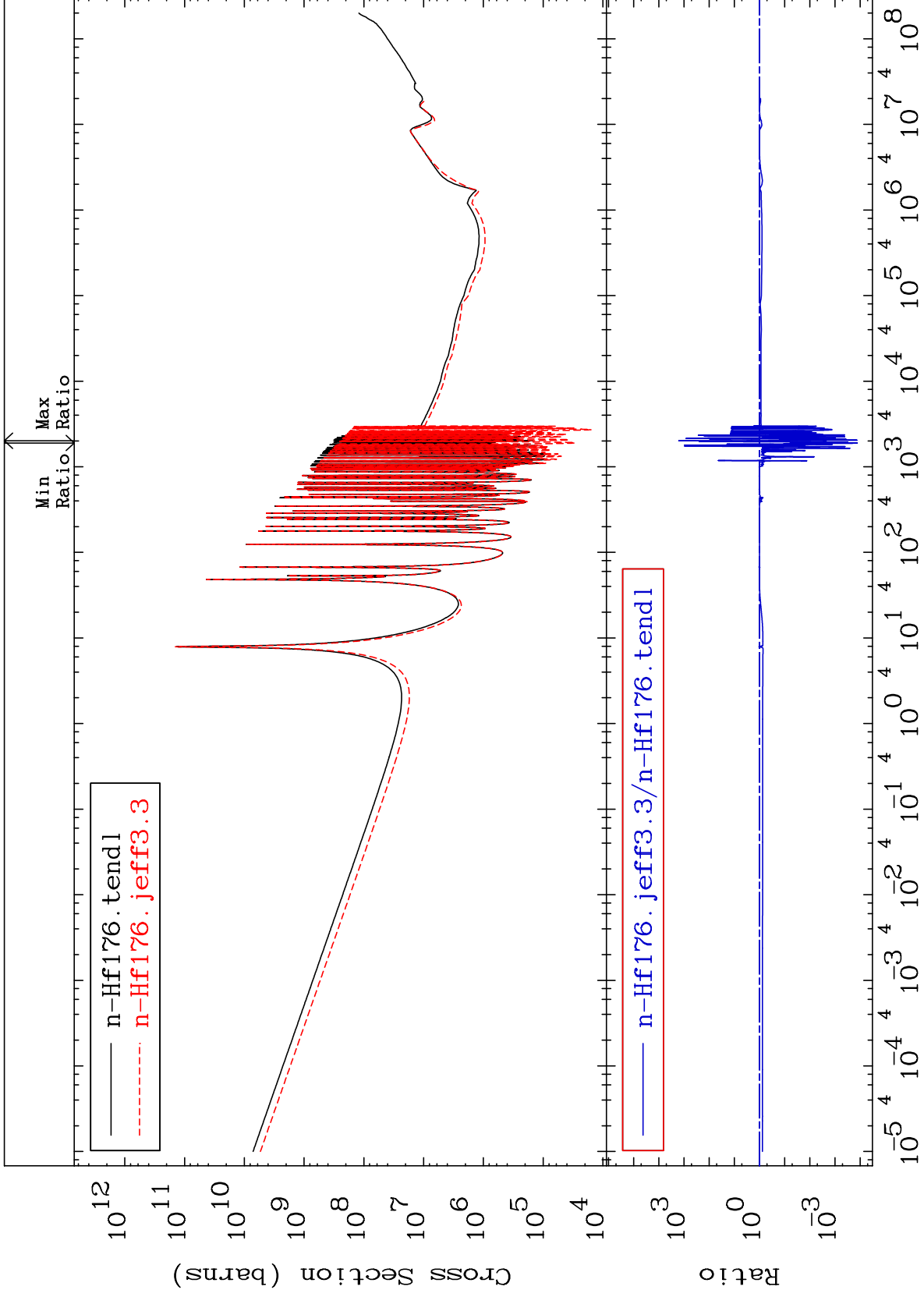
72-Hf-176  
-99.99 To 9999. %



MAT 7231

Total kinematic kerma (high limit)  
Cross Section

72-Hf-176  
-99.99 To 9999. %



63

72-Hf-176

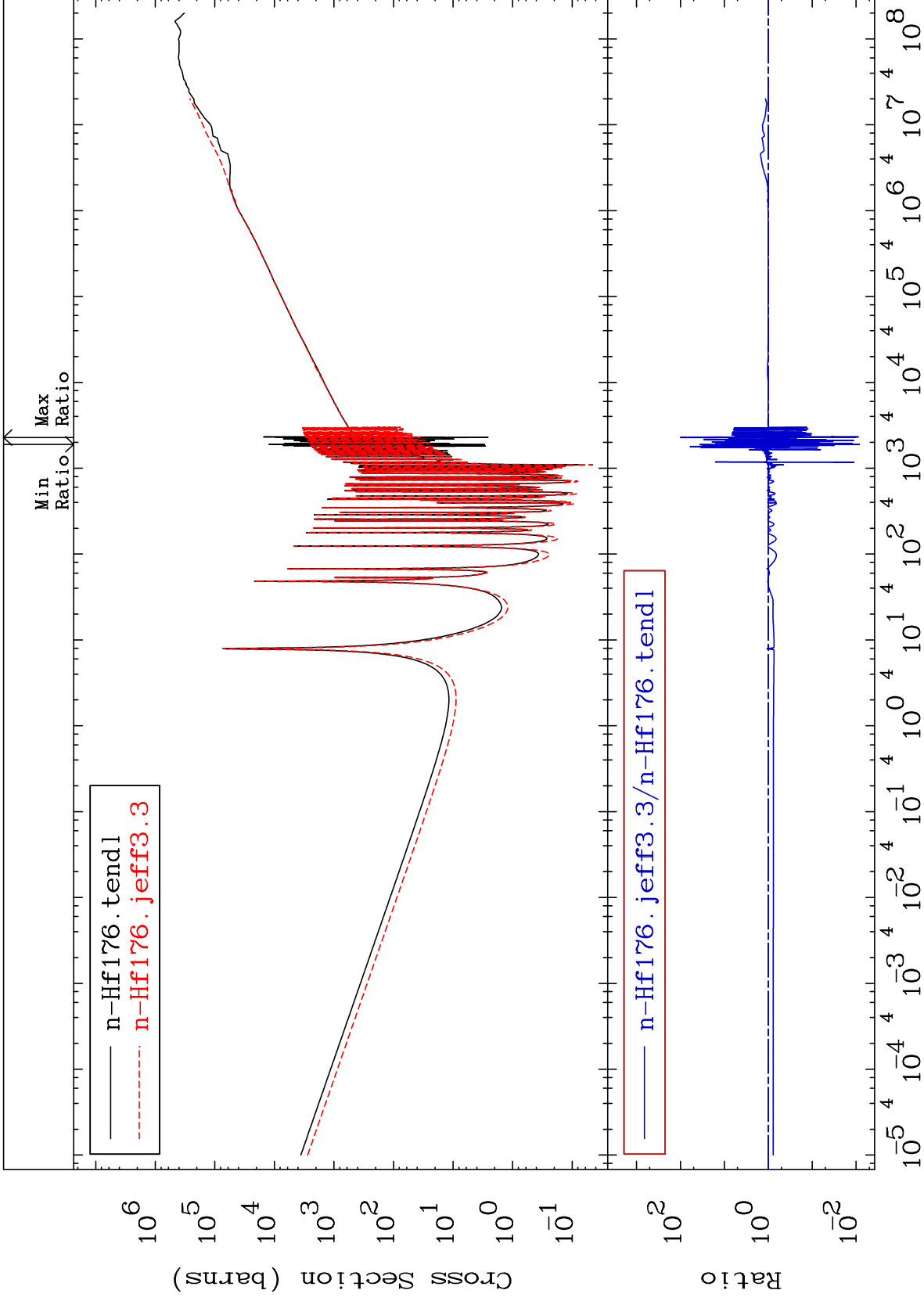
MAT 7231

Dpa total (eV-barns)

72-Hf-176

-99.16 To 9999. %

Cross Section

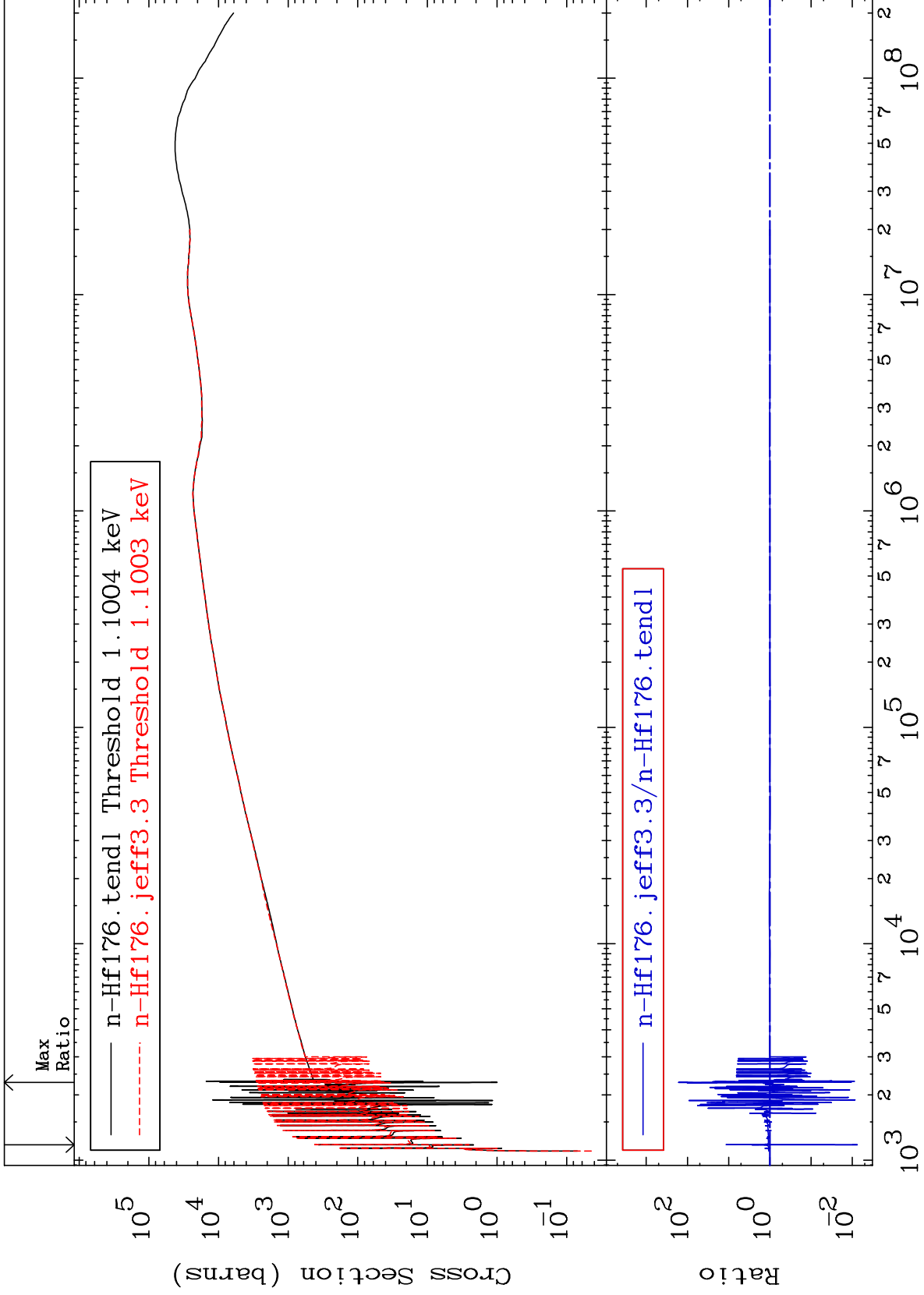




MAT 7231

Dpa elastic (mt2)  
Cross Section

72-Hf-176  
-99.24 To 9999. %



65

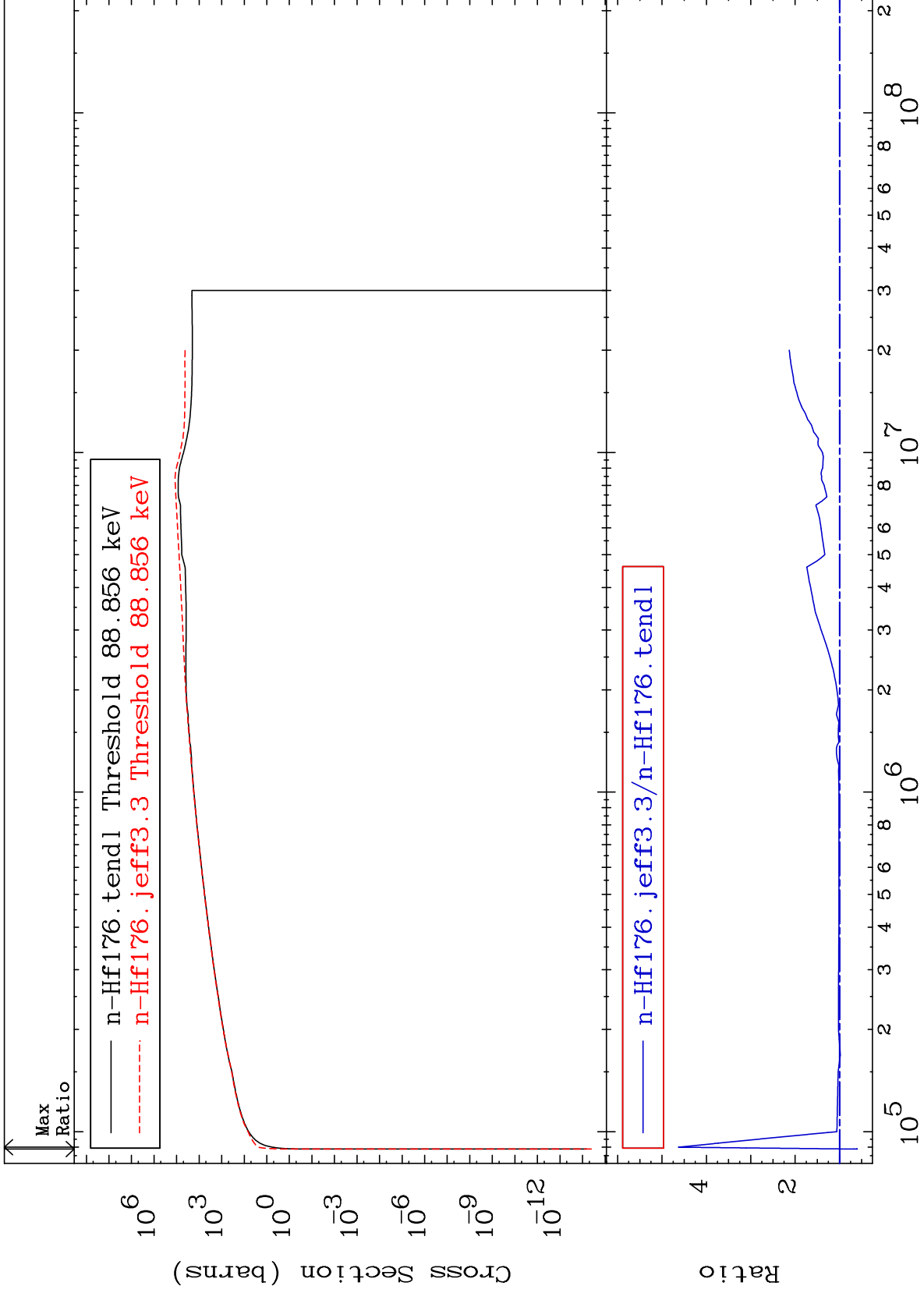
Incident Energy (eV)

72-Hf-176

MAT 7231

Dpa inelastic (mt51-91)  
Cross Section

72-Hf-176  
-40.05 To 362.6 %



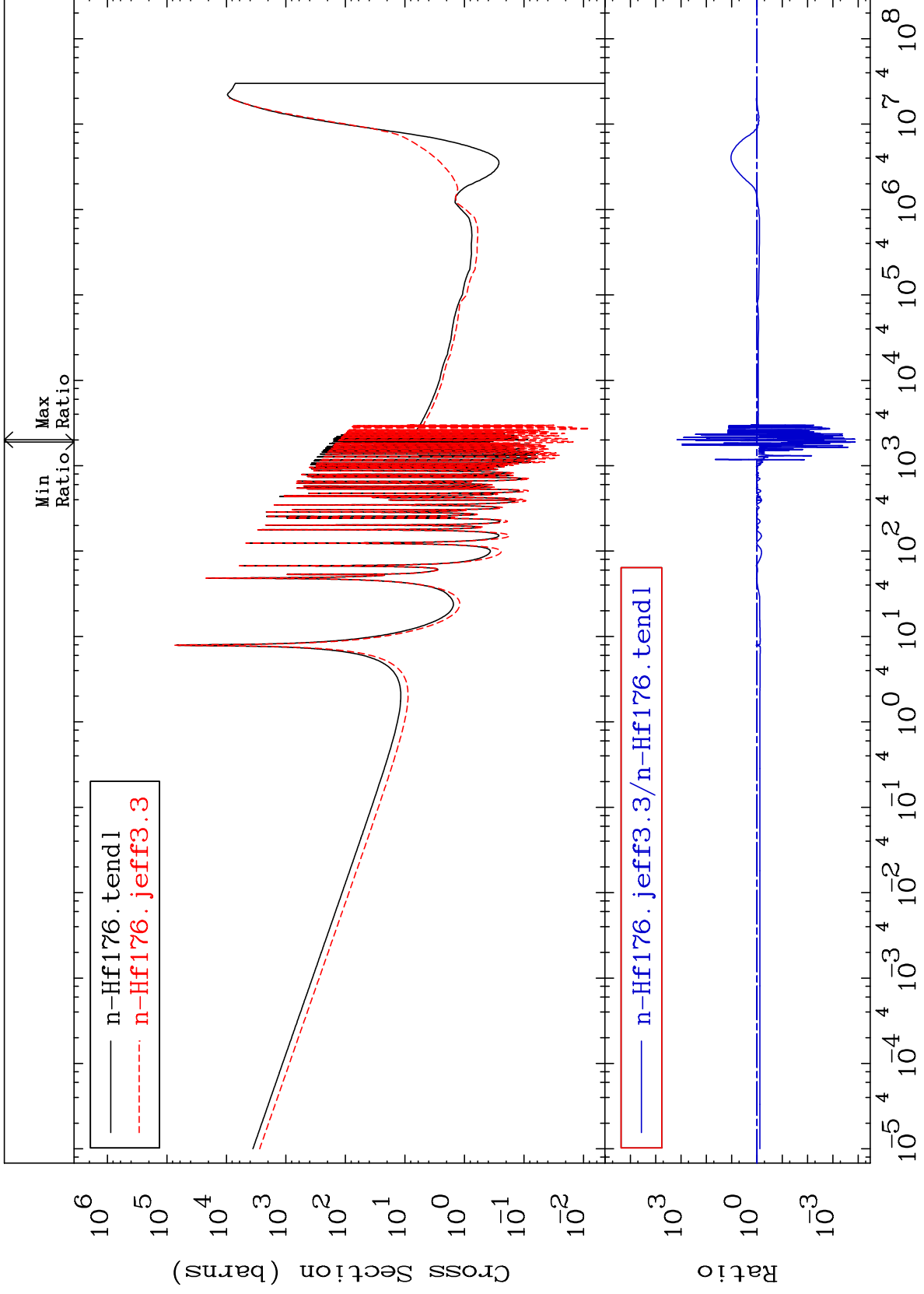
66

72-Hf-176

MAT 7231

Dpa disappearance (mt102 -120)  
Cross Section

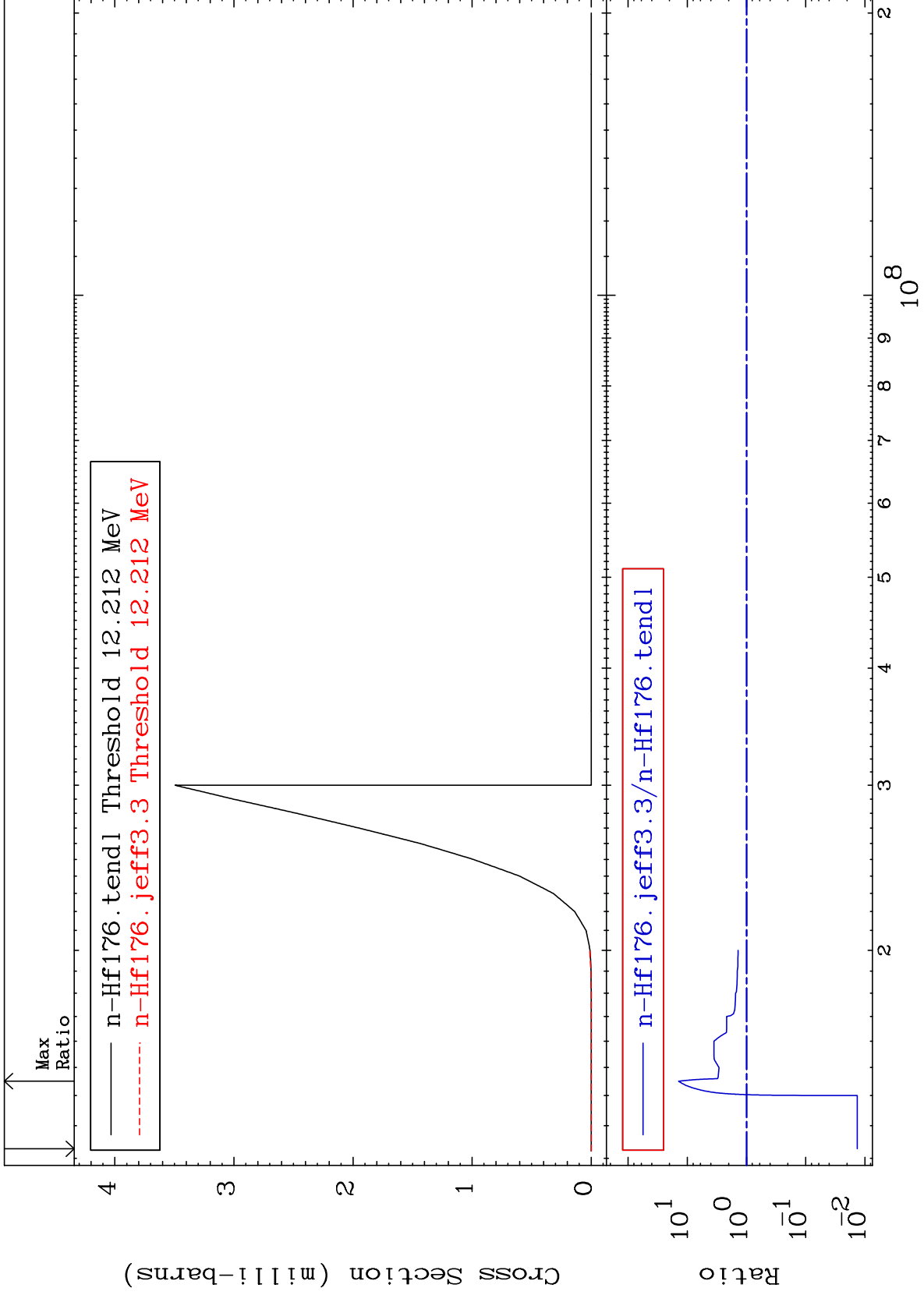
72-Hf-176  
-99.99 To 9999. %



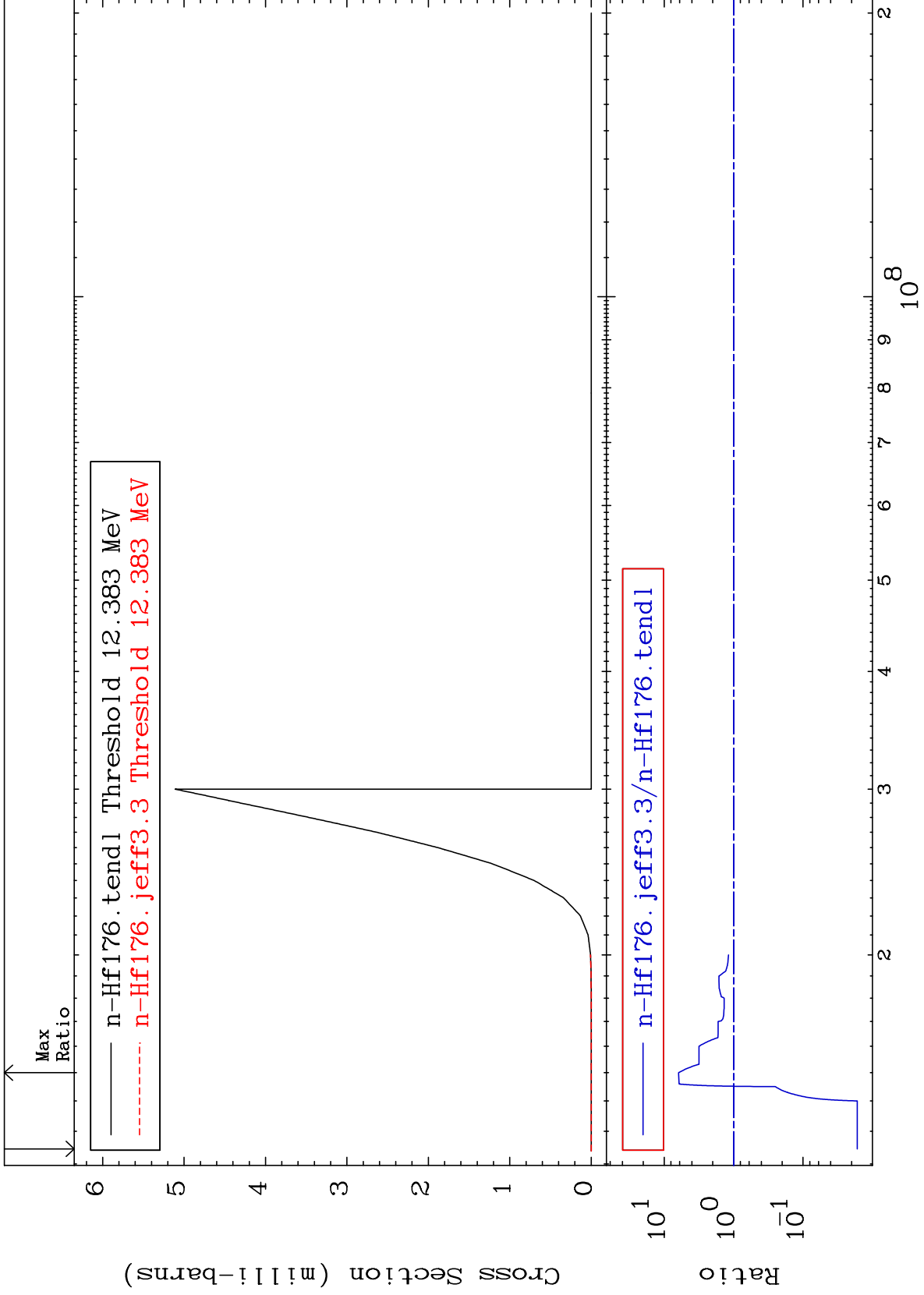
67

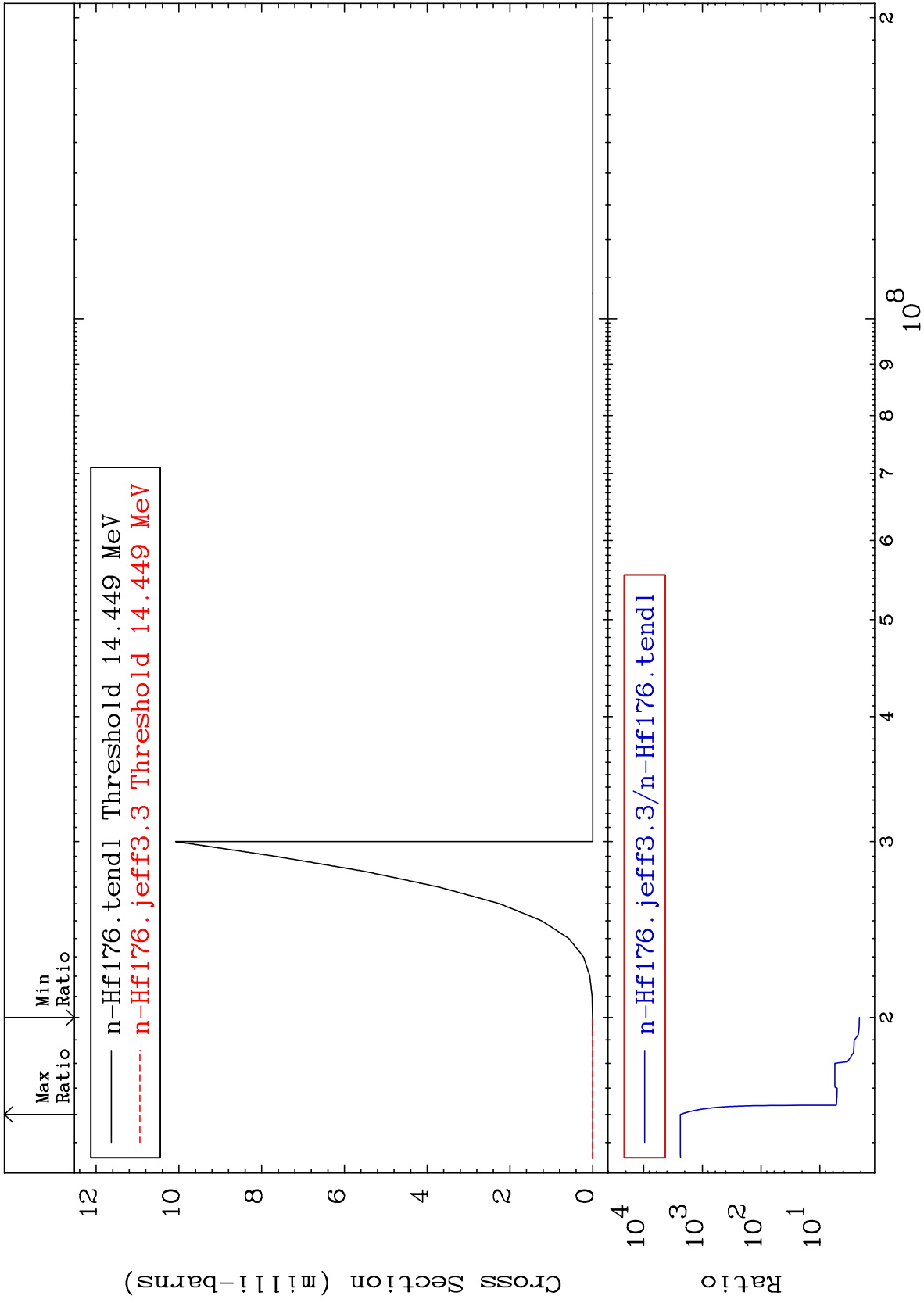
Incident Energy (eV)

72-Hf-176



Radionuclide Production Cross Section -98.34 To 519.9 %



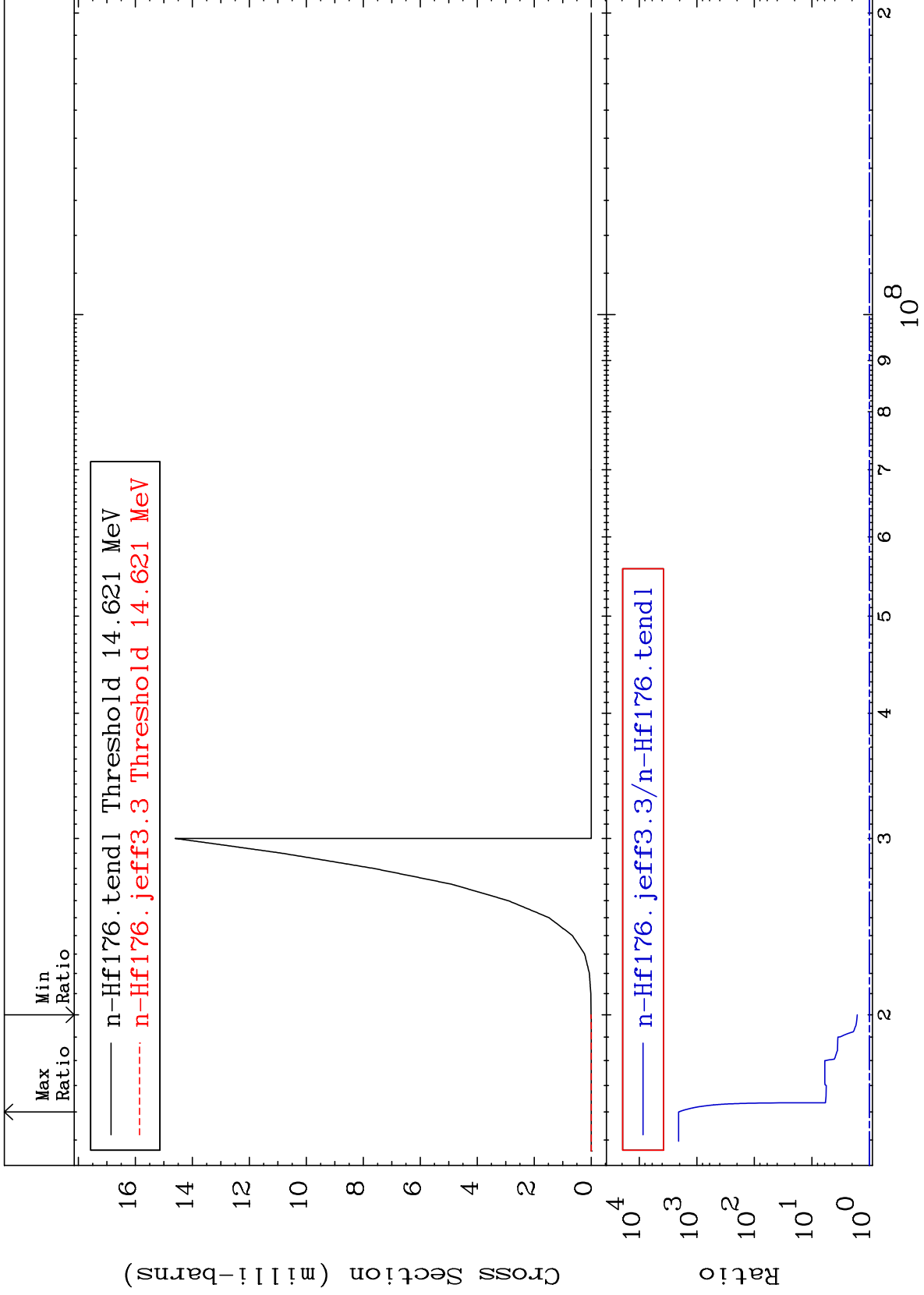


MAT 7231

(n,2n) p:71-Lu-174m3

72-Hf-176

Radionuclide Production Cross Section 62.89 To 9999. %



71

Incident Energy (eV)

72-Hf-176

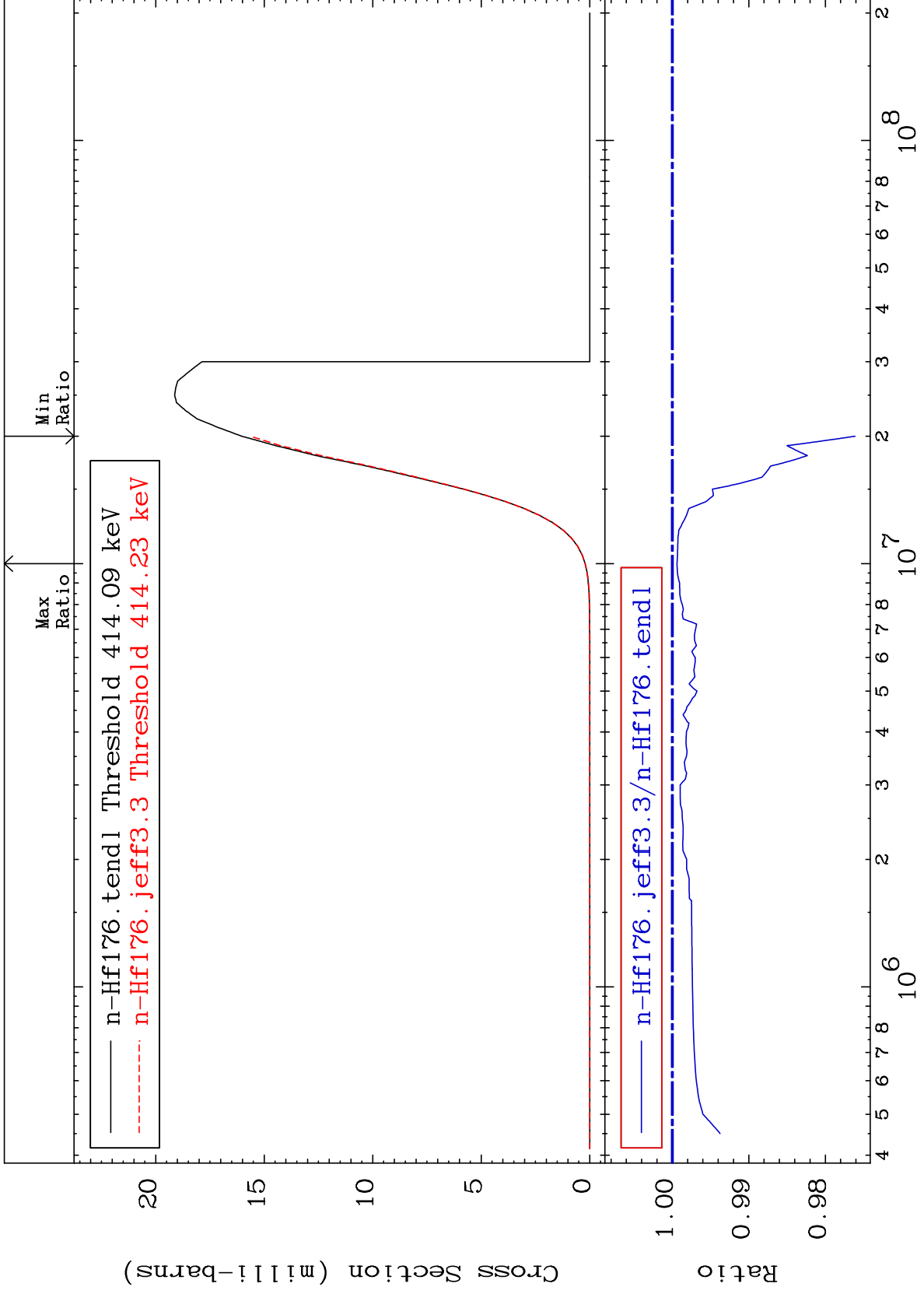
MAT 7231

(n, p) : 71-Lu-176g

72-Hf-176

Radionuclide Production Cross Section

-2.389 To -0.061%



72

Incident Energy (eV)

72-Hf-176

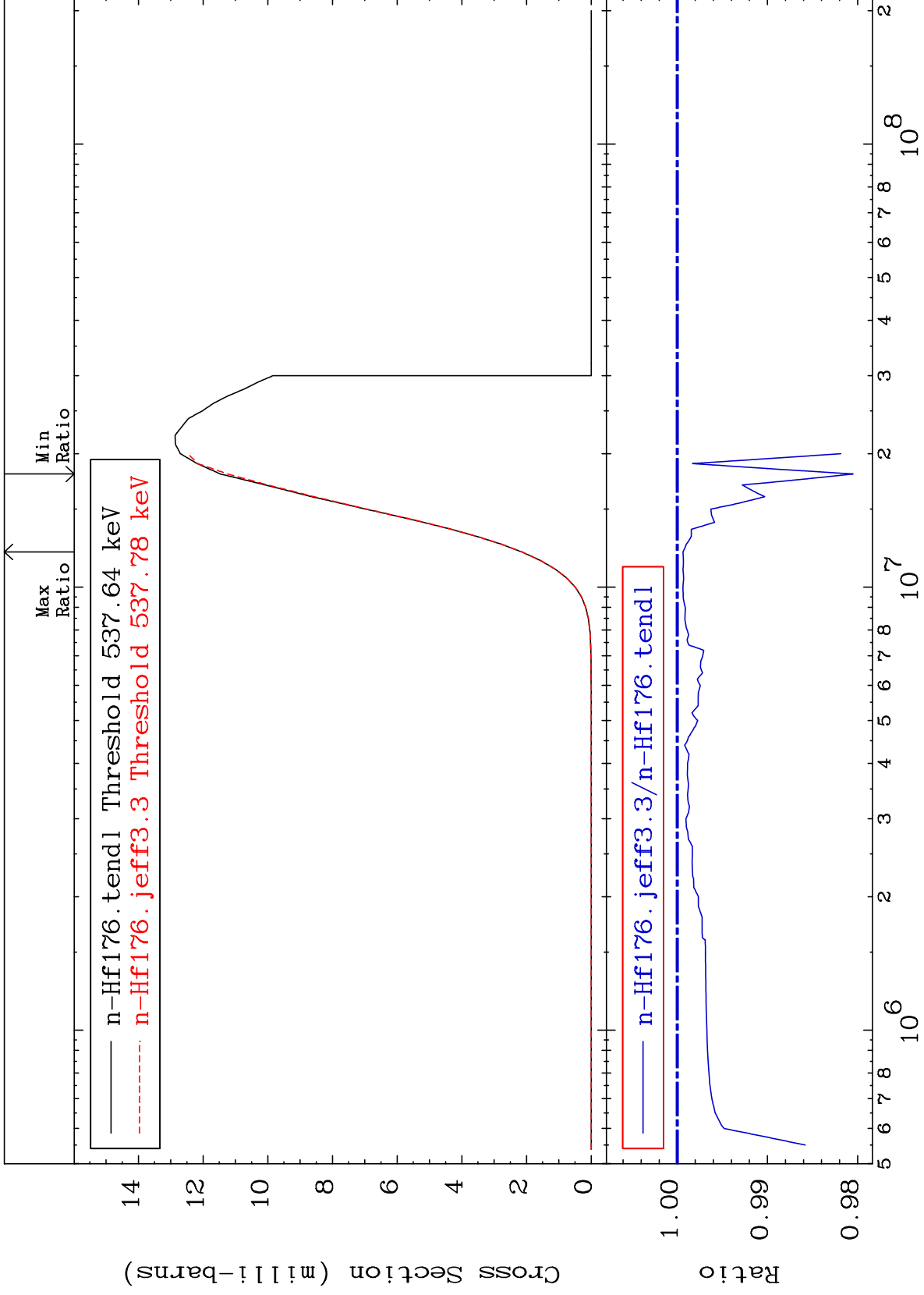


MAT 7231

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

72-Hf-176

Radionuclide Production Cross Section -1.949 To -0.063%



73

Incident Energy (eV)

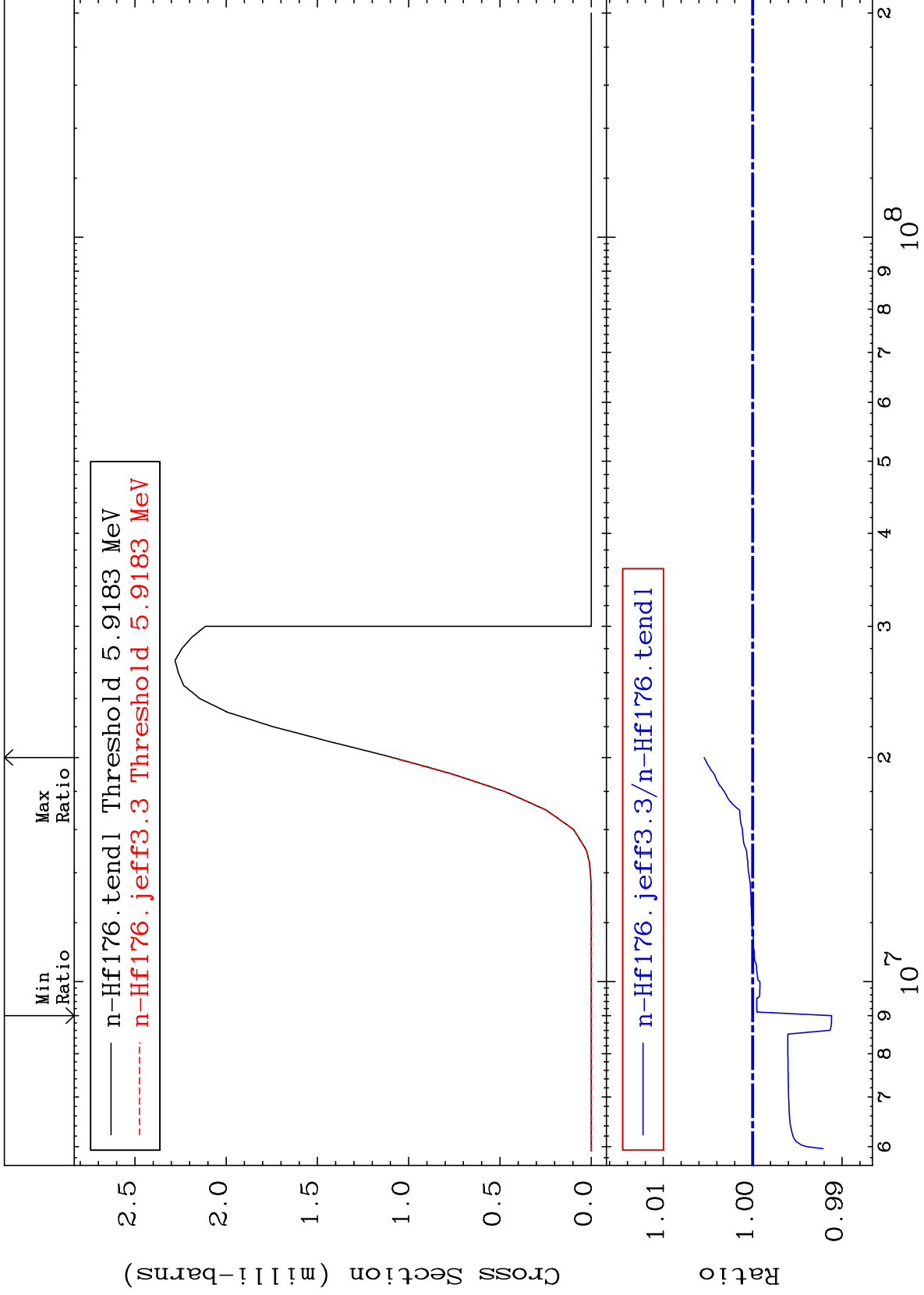
72-Hf-176

MAT 7231

(n, t):71-Lu-174g

72-Hf-176

Radionuclide Production Cross Section -0.884 To 0.541 %



74

Incident Energy (eV)

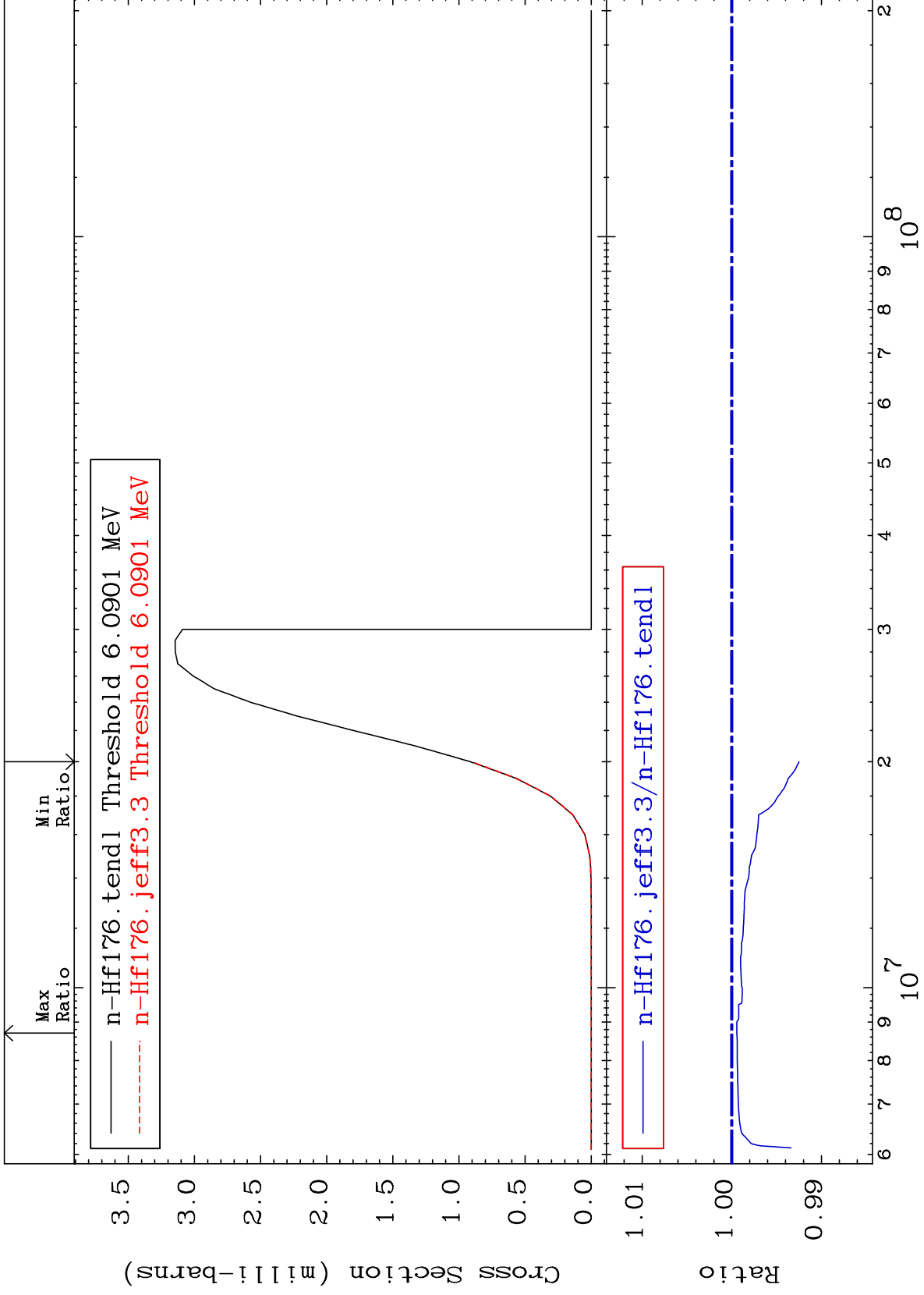
72-Hf-176

MAT 7231

(n, t) : 71-Lu-174m3

72-Hf-176

Radionuclide Production Cross Section -0.749 To -0.057%



75

Incident Energy (eV)

72-Hf-176