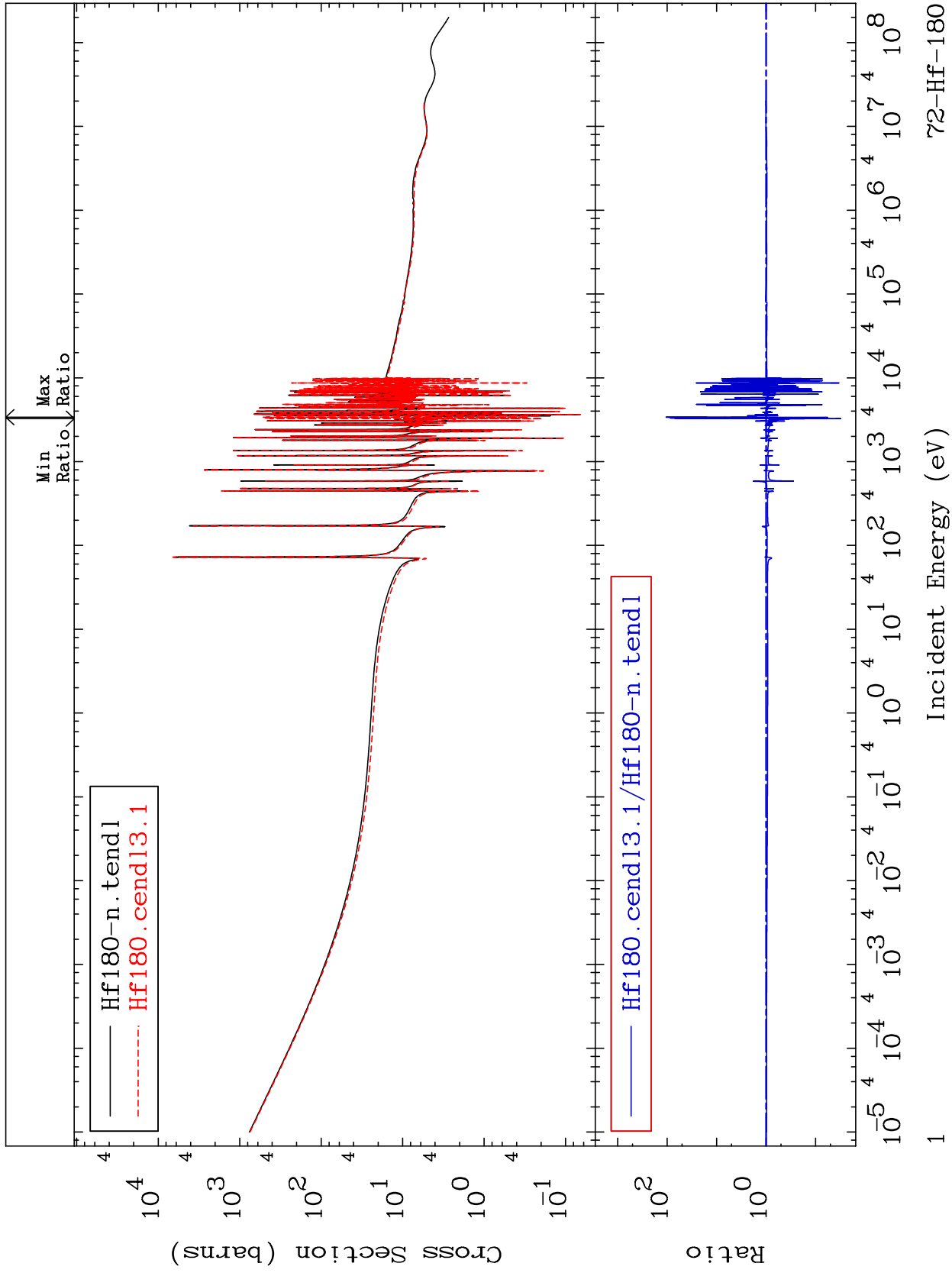


MAT 7243

Total  
Cross Section

72-Hf-180  
-96.91 To 9999. %



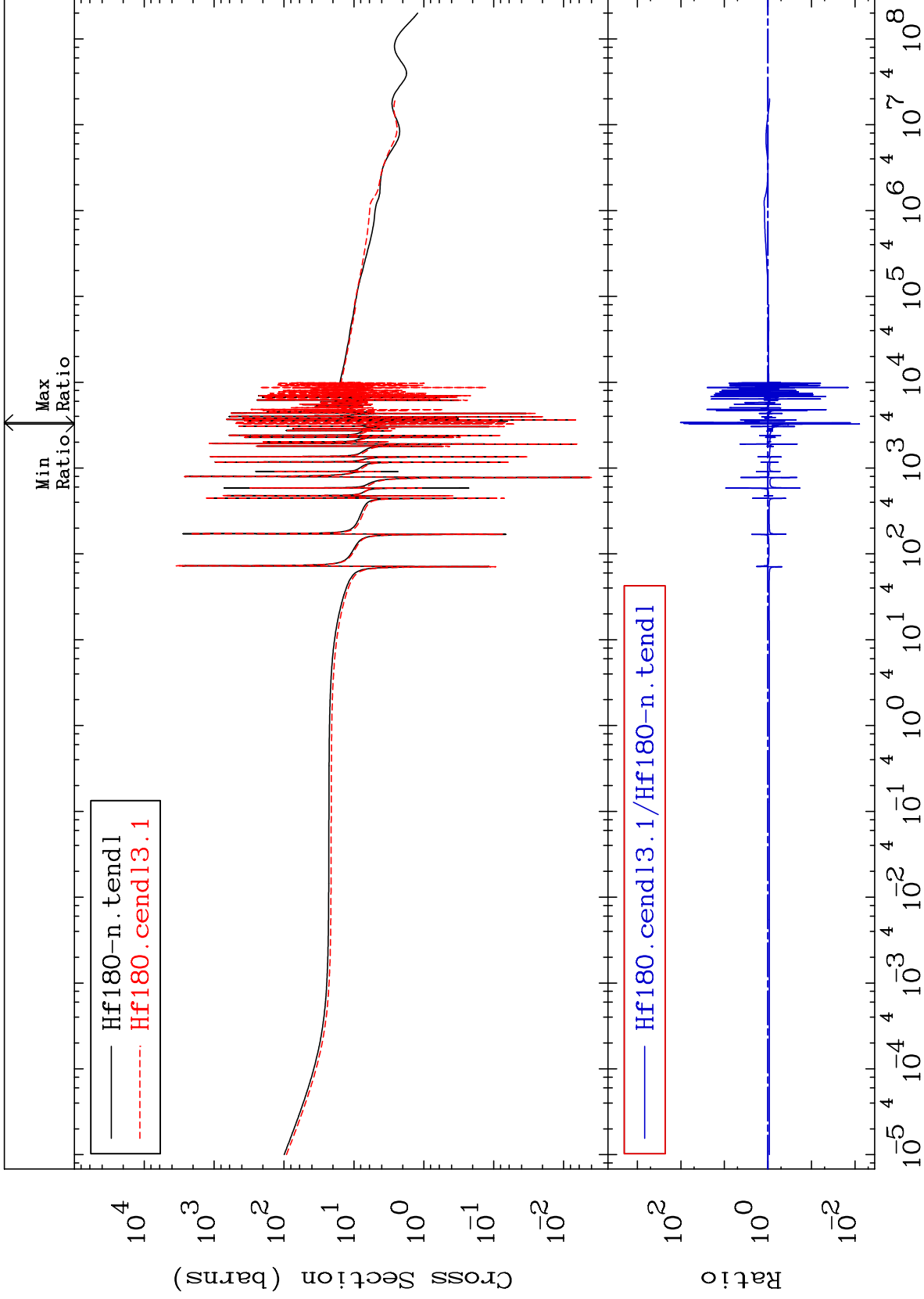
Incident Energy (eV)

72-Hf-180

MAT 7243

Elastic  
Cross Section

72-Hf-180  
-99.21 To 9999. %



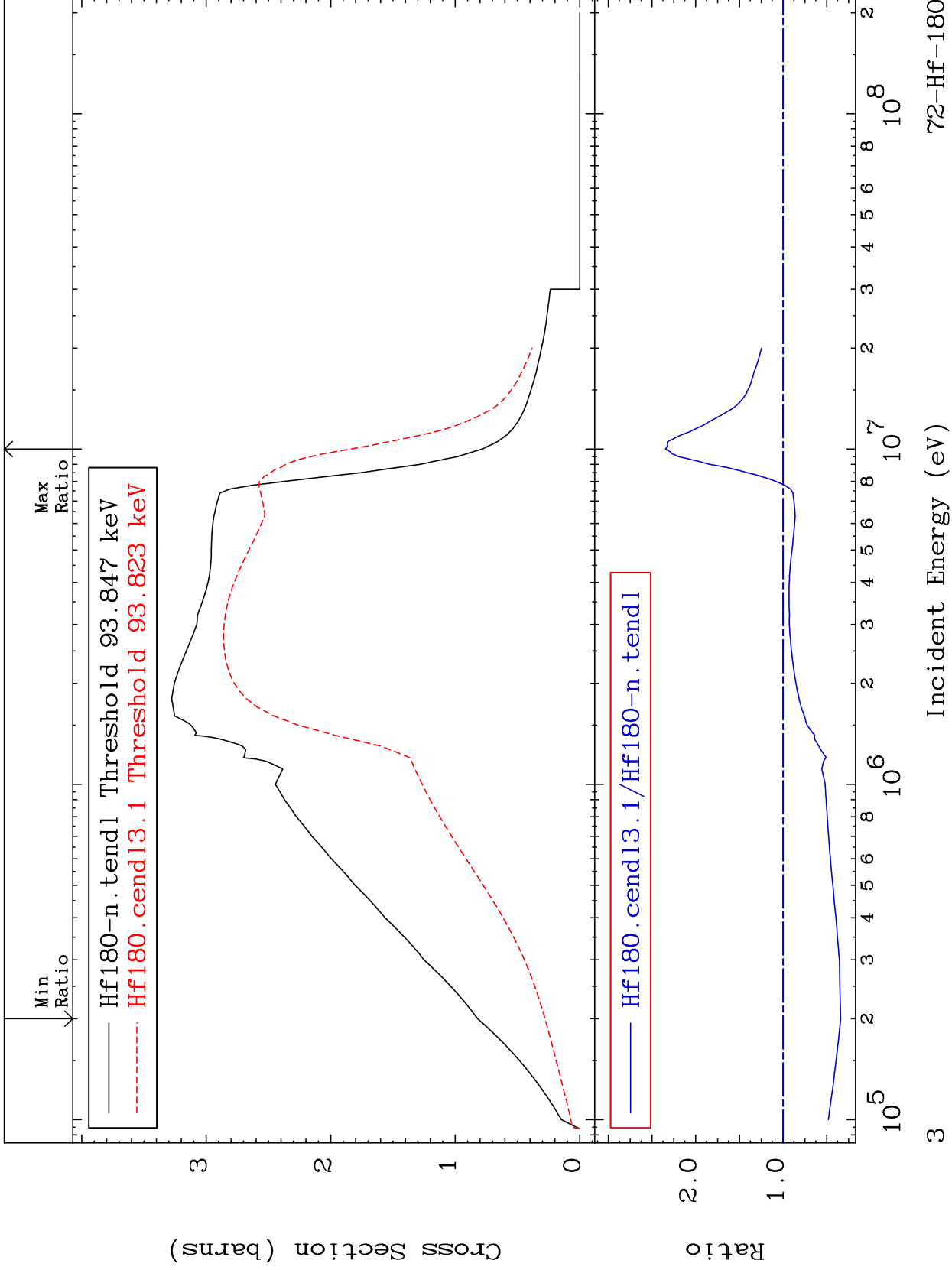
Incident Energy (eV)

72-Hf-180

MAT 7243

Inelastic  
Cross Section

72-Hf-180  
-65.97 To 134.6 %



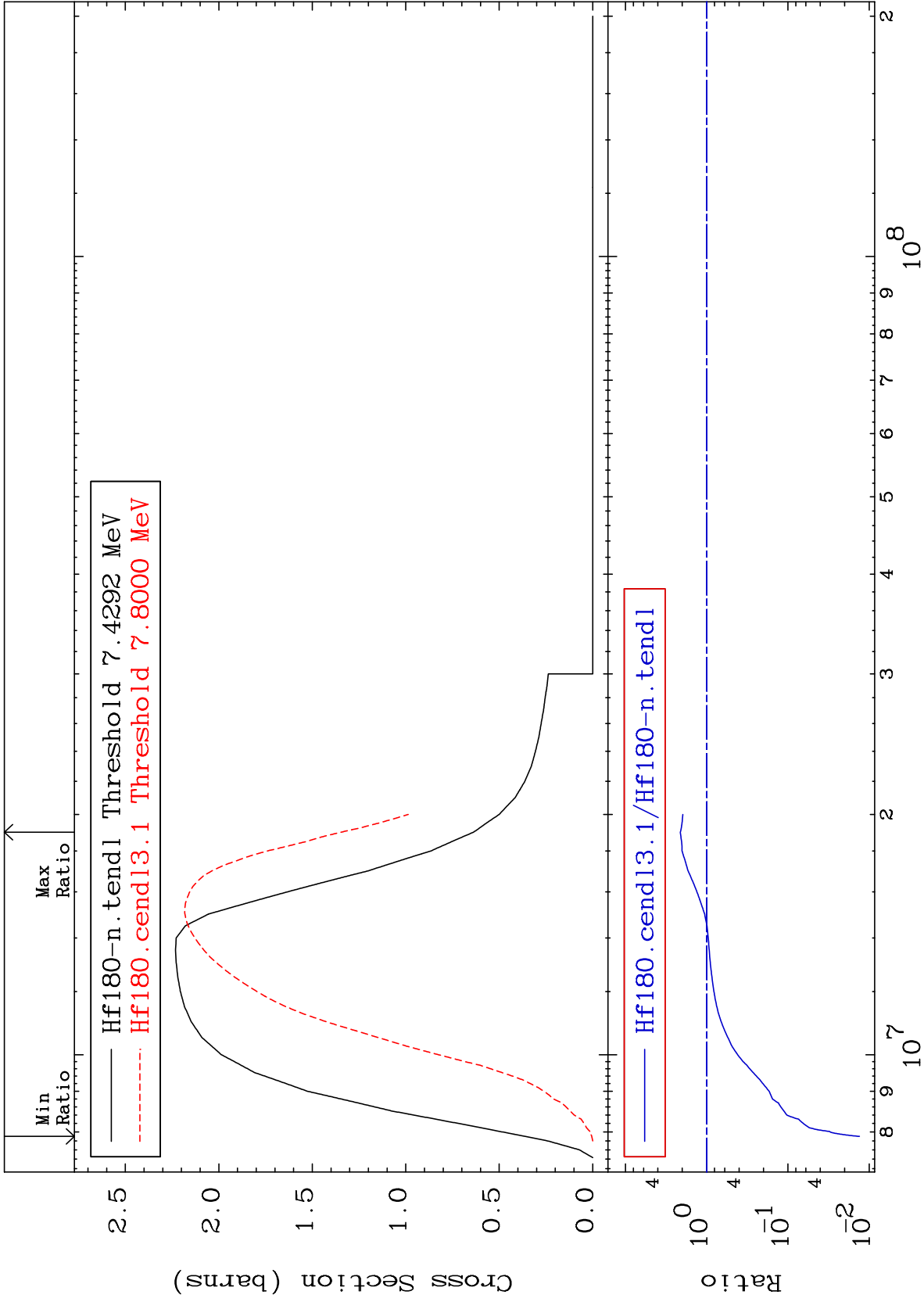
MAT 7243

(n,2n)

72-Hf-180

Cross Section

-98.68 To 111.1 %



Incident Energy (eV)

72-Hf-180

4

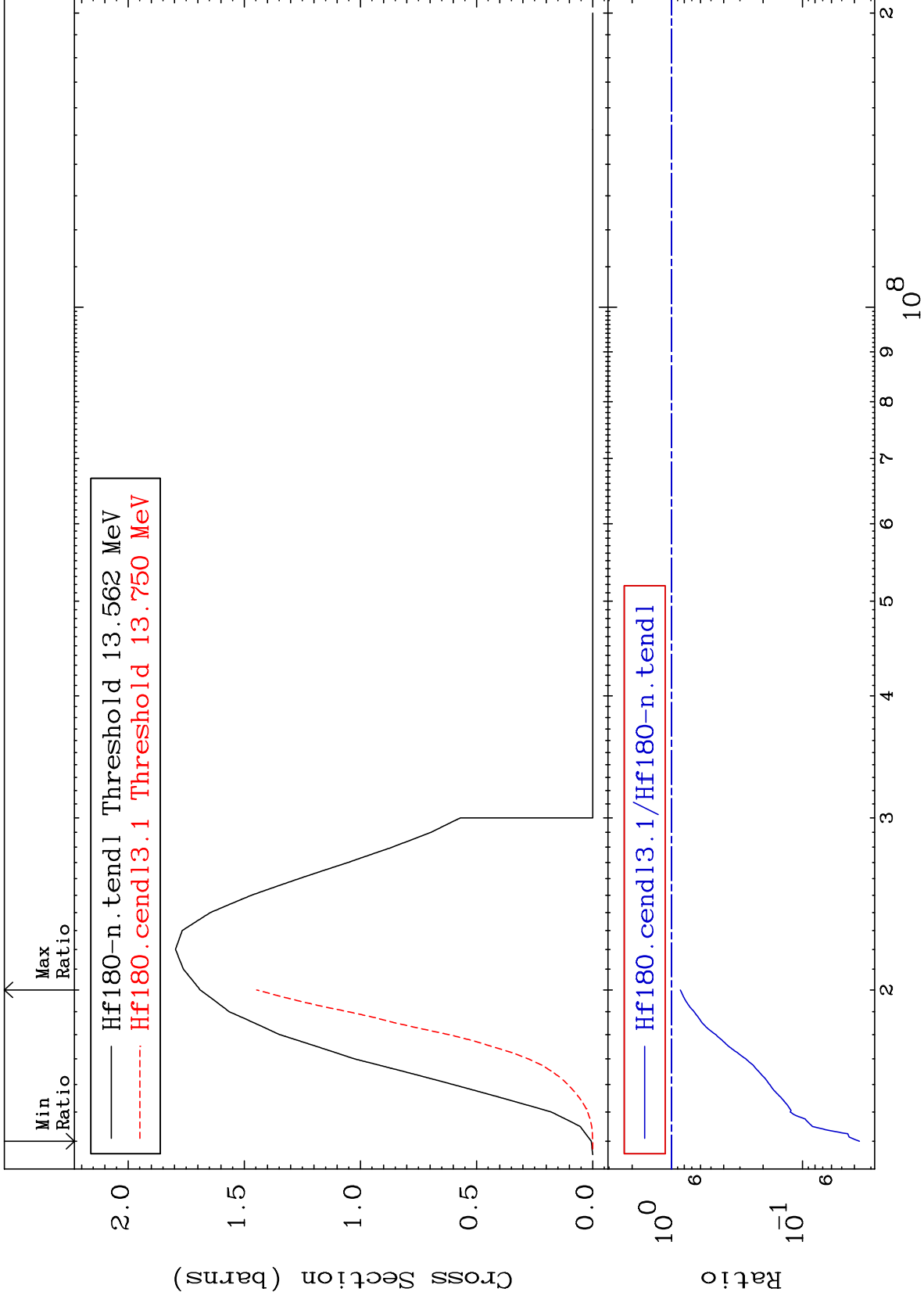
MAT 7243

(n, 3n)

72-Hf-180

Cross Section

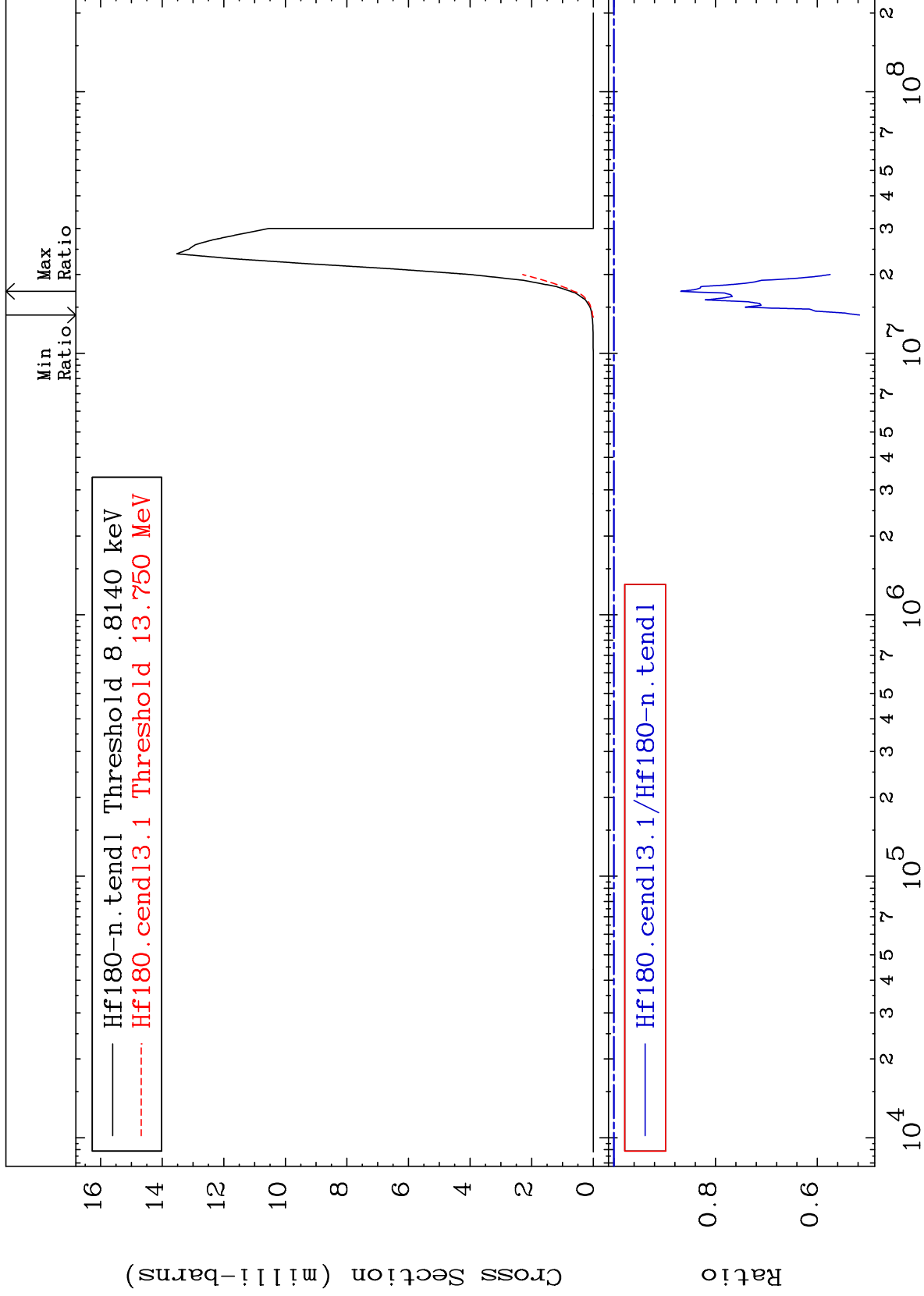
-96.33 To -14.37%



MAT 7243

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

$^{72}\text{Hf-180}$   
-48.30 To -13.16%



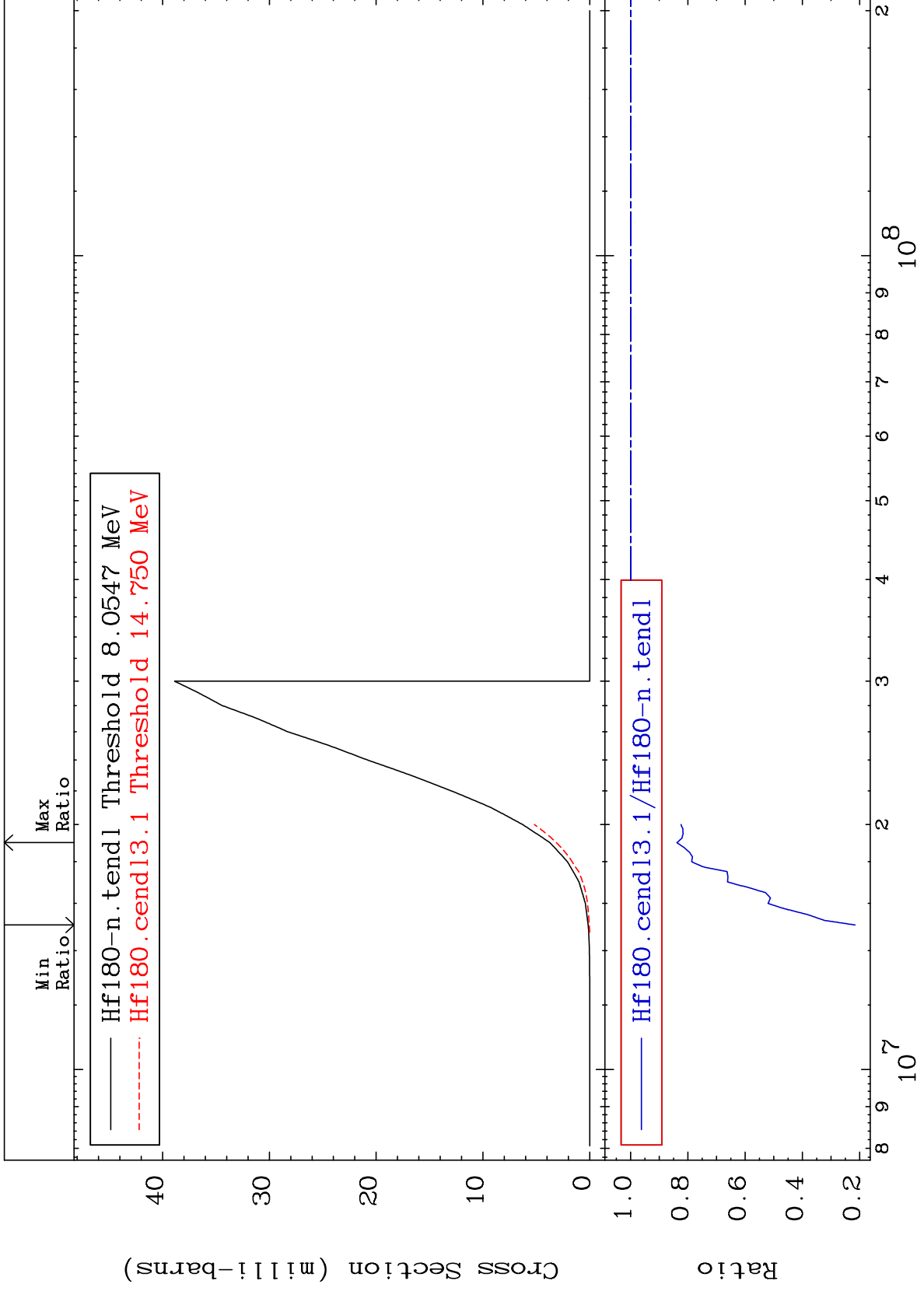
Incident Energy (eV)

$^{72}\text{Hf-180}$

MAT 7243

(n, n') p  
Cross Section

<sup>72</sup>Hf-180  
-78.38 To -16.18%



7

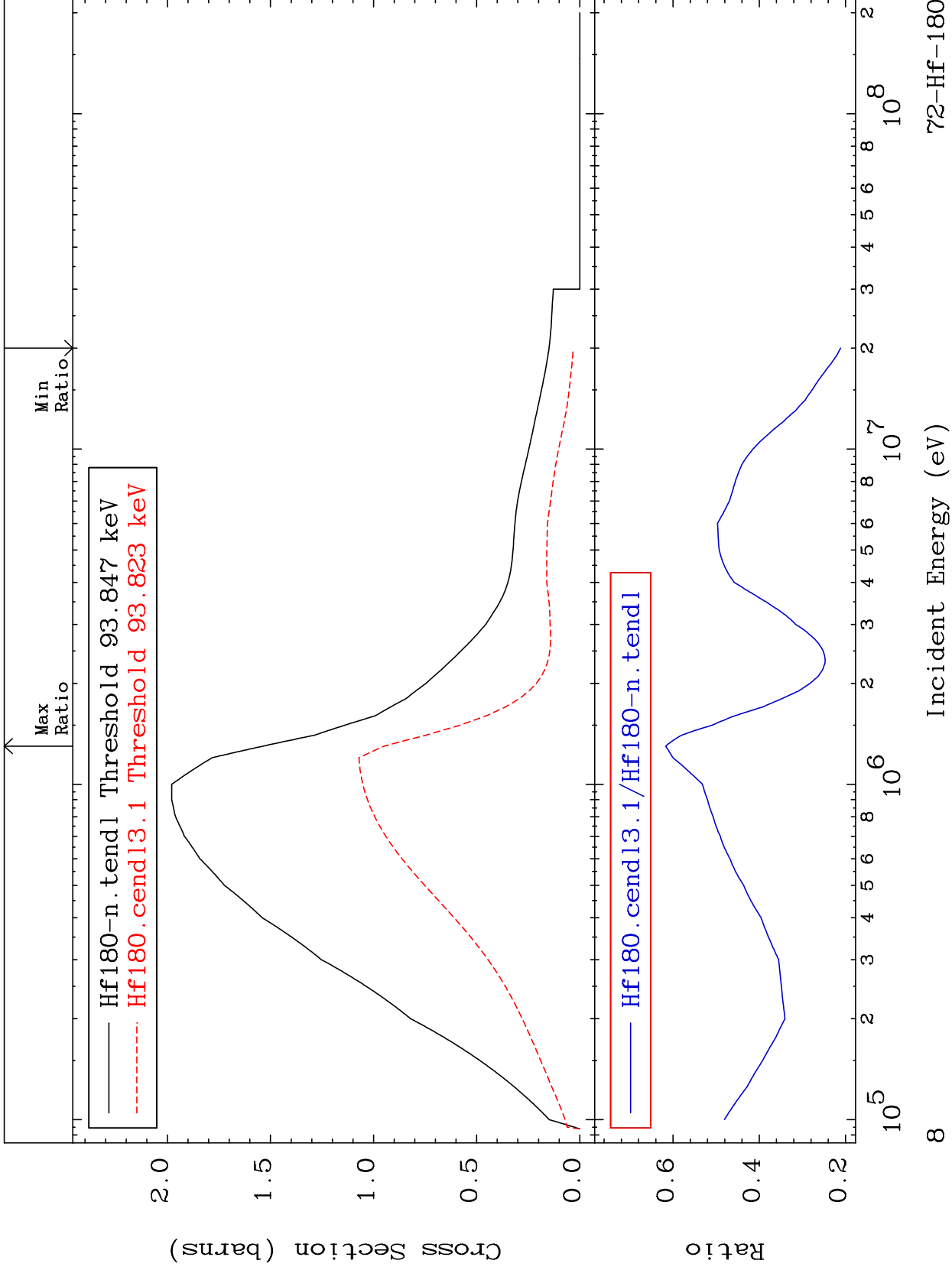
Incident Energy (eV)

<sup>72</sup>Hf-180

MAT 7243

93.32 keV (n,n') Level  
Cross Section

72-Hf-180  
-78.89 To -38.24%



72-Hf-180

Incident Energy (eV)

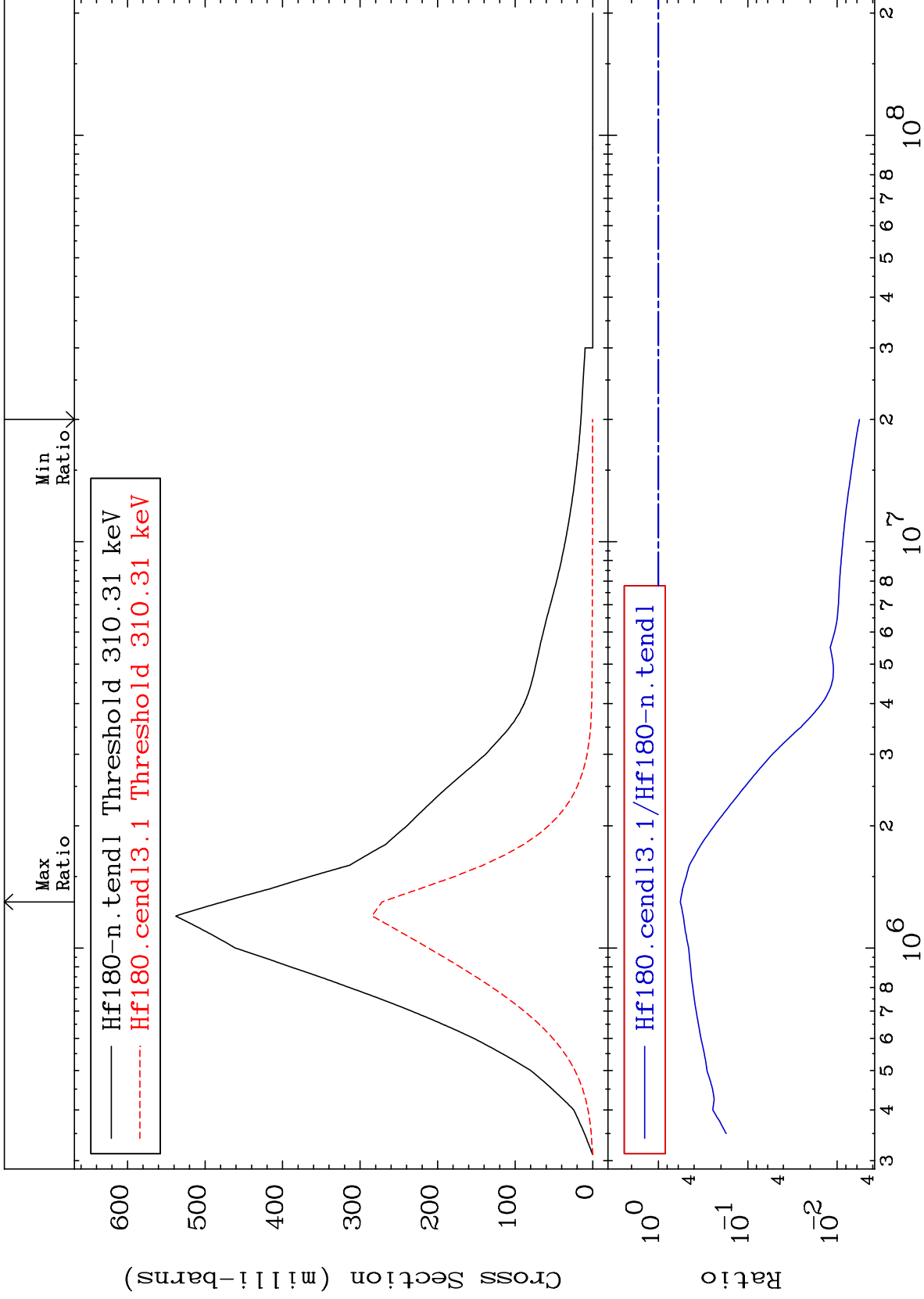
8



MAT 7243

308.6 keV (n,n') Level  
Cross Section

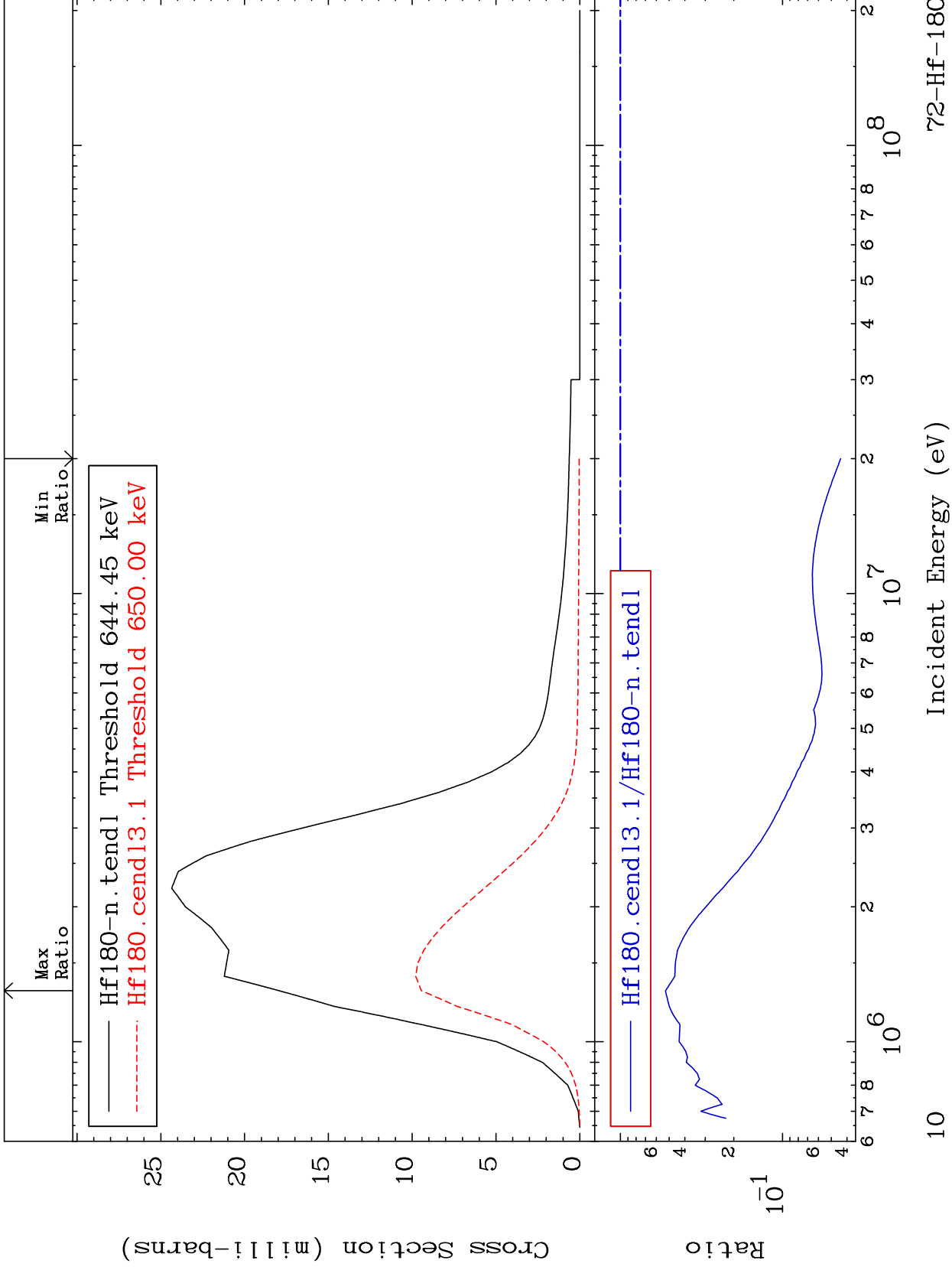
72-Hf-180  
-99.44 To -43.09%



MAT 7243

640.9 keV (n,n') Level  
Cross Section

<sup>72</sup>Hf-180  
-95.63 To -47.30%



10

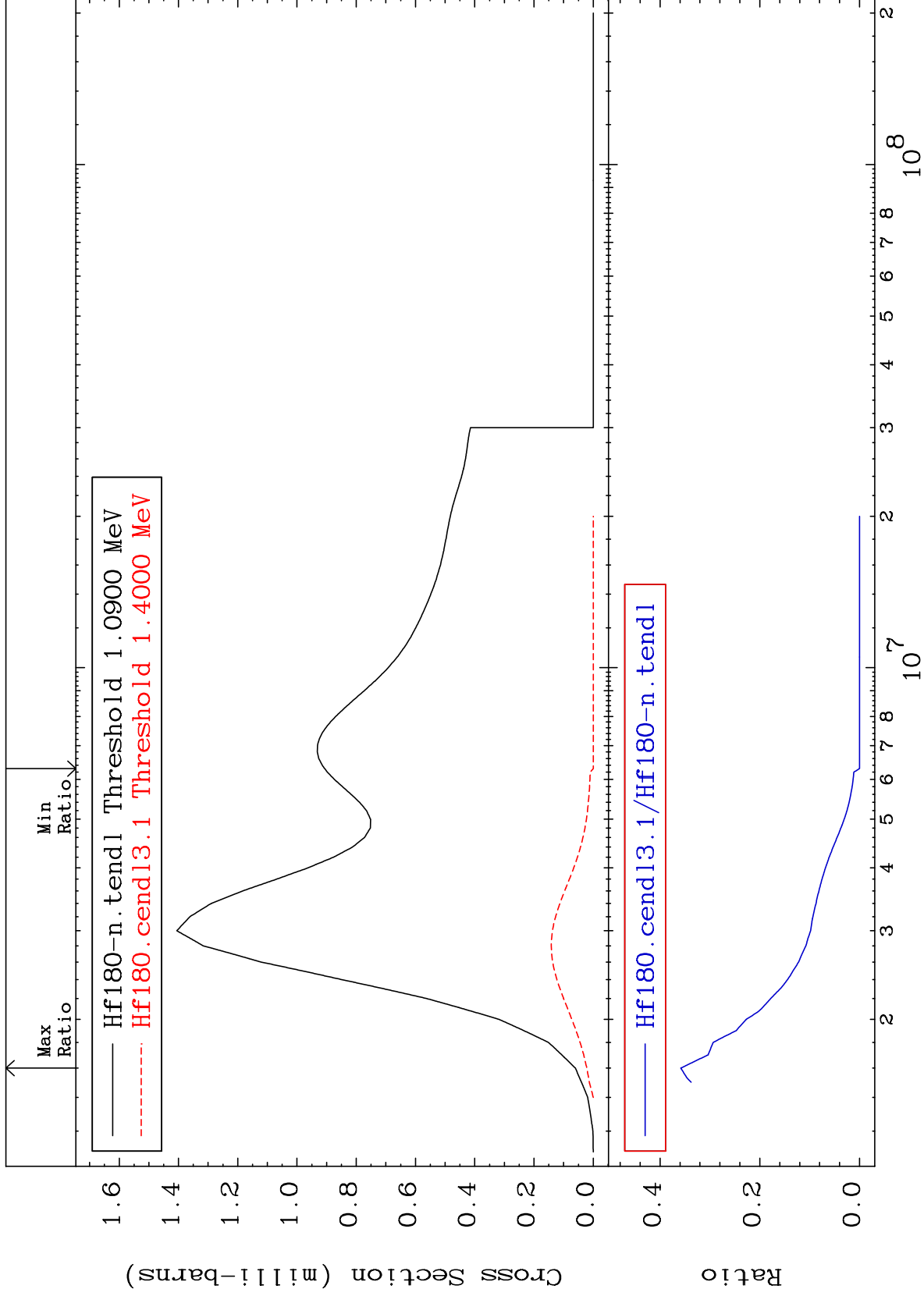
Incident Energy (eV)

<sup>72</sup>Hf-180

MAT 7243

1.084 MeV (n,n') Level  
Cross Section

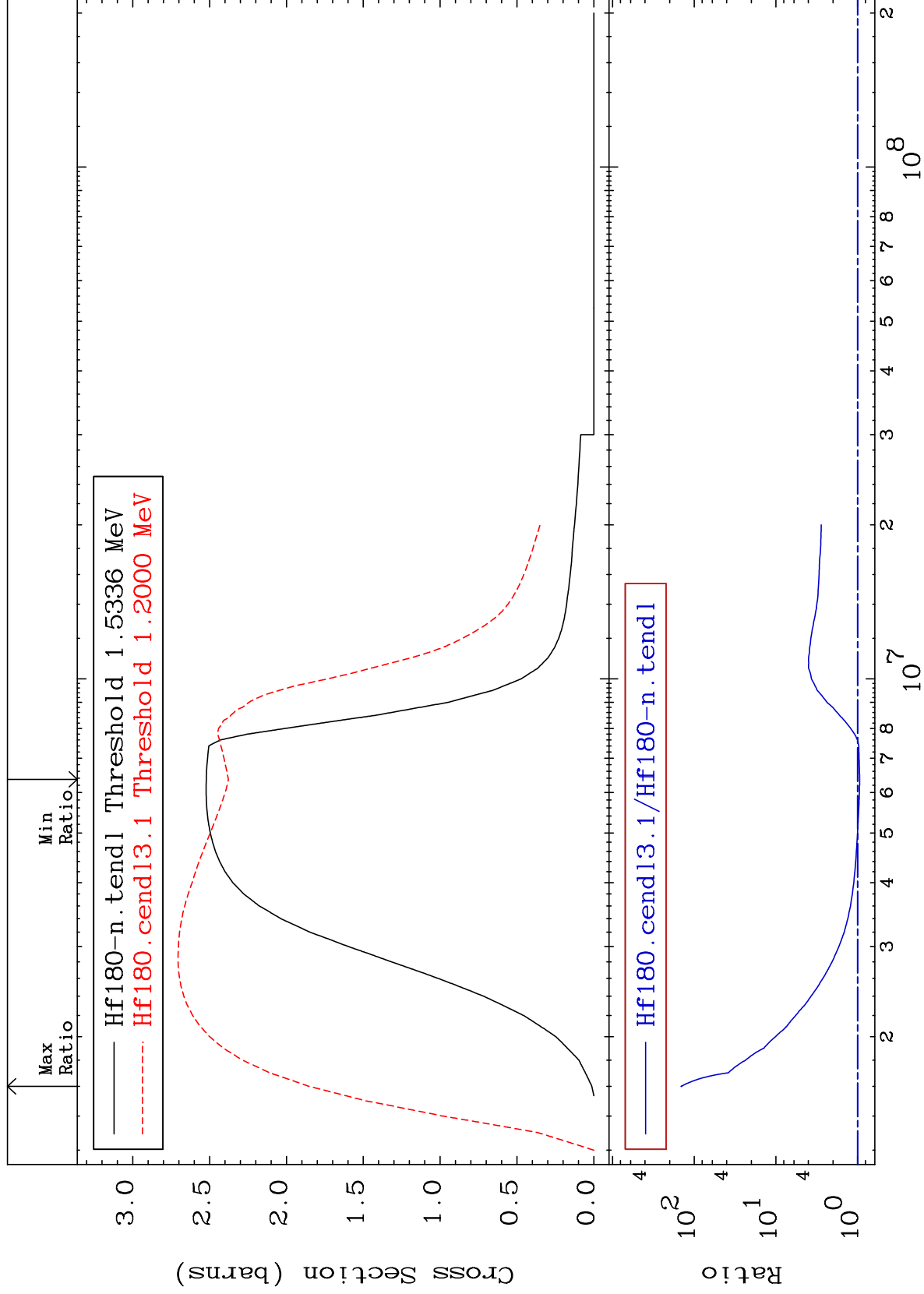
<sup>72</sup>Hf-180  
-100.0 To -64.15%



MAT 7243

(n, n') Continuum  
Cross Section

72-Hf-180  
-5.689 To 9999. %



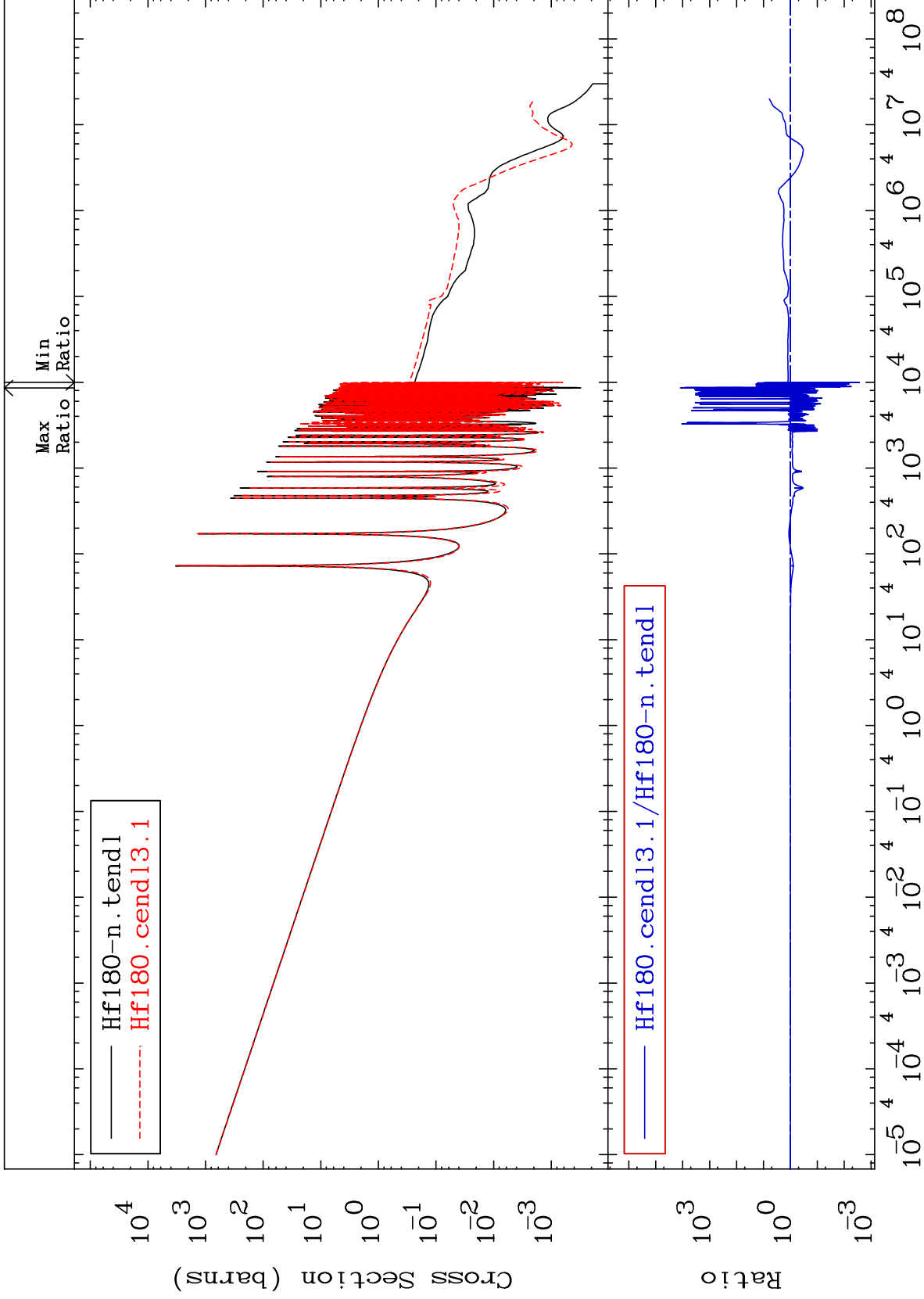
MAT 7243

(n,  $\gamma$ )

72-Hf-180

Cross Section

-99.73 To 9999. %



13

Incident Energy (eV)

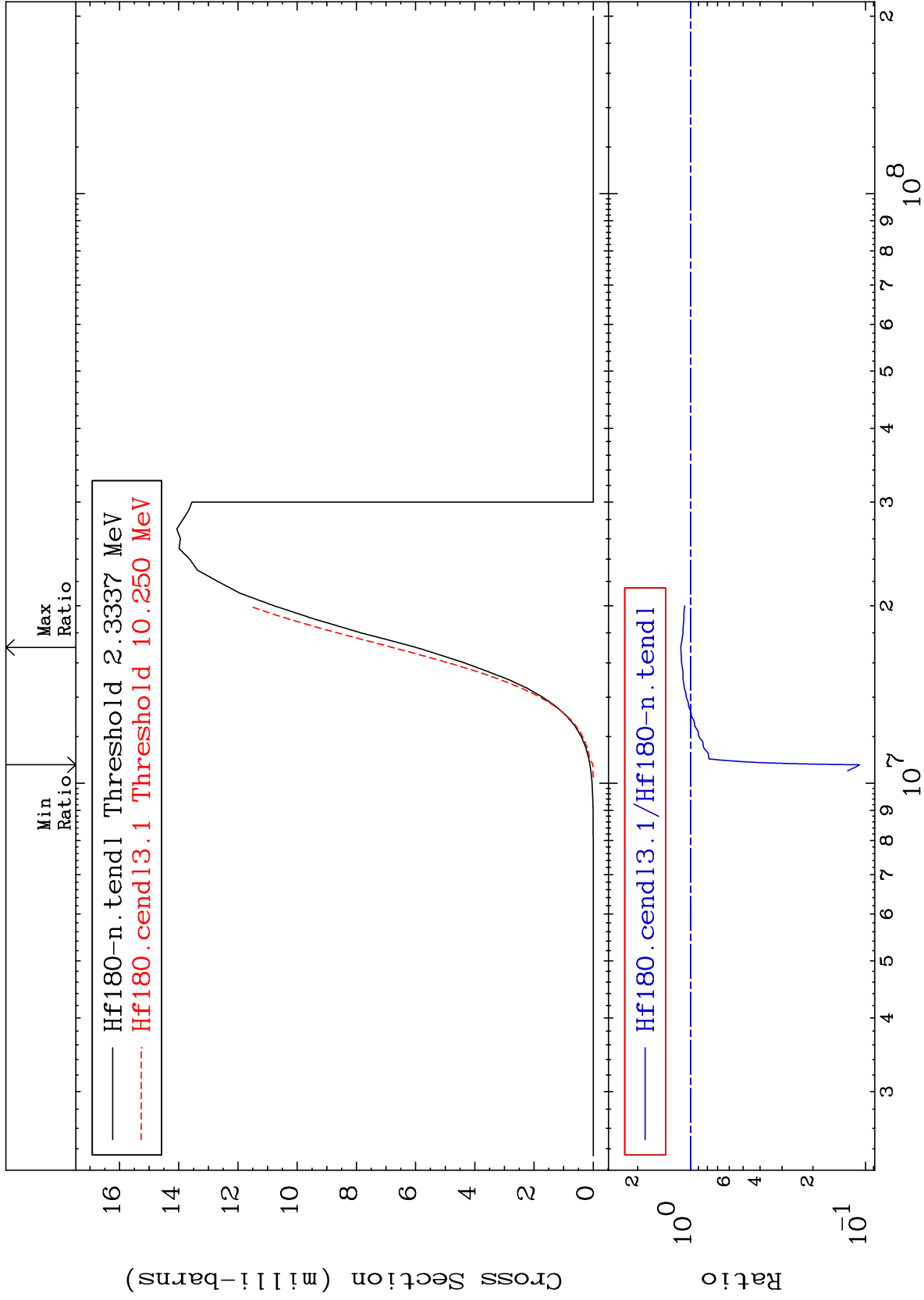
72-Hf-180

MAT 7243

<sup>72</sup>Hf-180

-89.18 To 13.54 %

(n, p)  
Cross Section



14

Incident Energy (eV)

<sup>72</sup>Hf-180

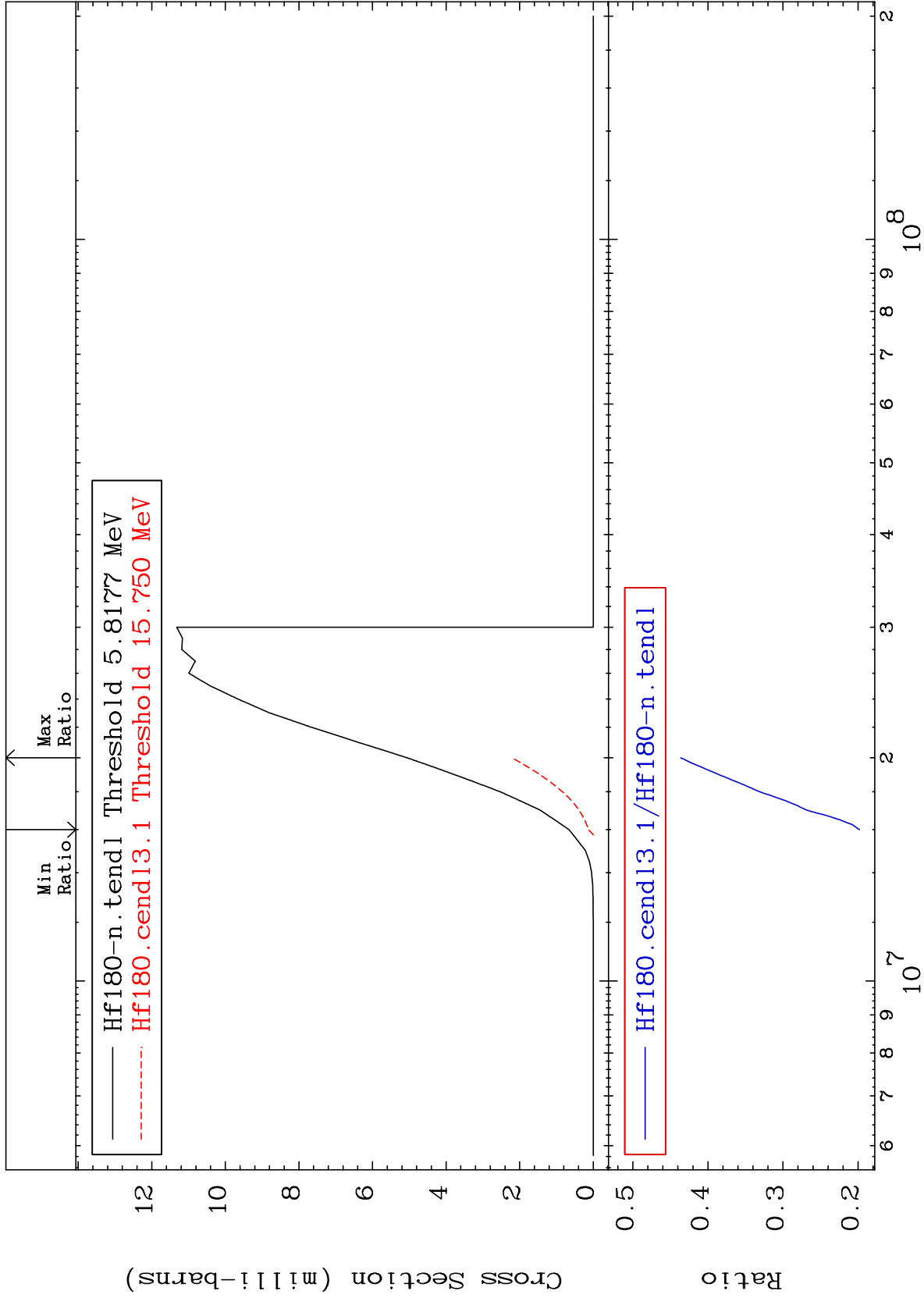
MAT 7243

(n, d)

72-Hf-180

Cross Section

-80.20 To -56.38%



15

Incident Energy (eV)

72-Hf-180

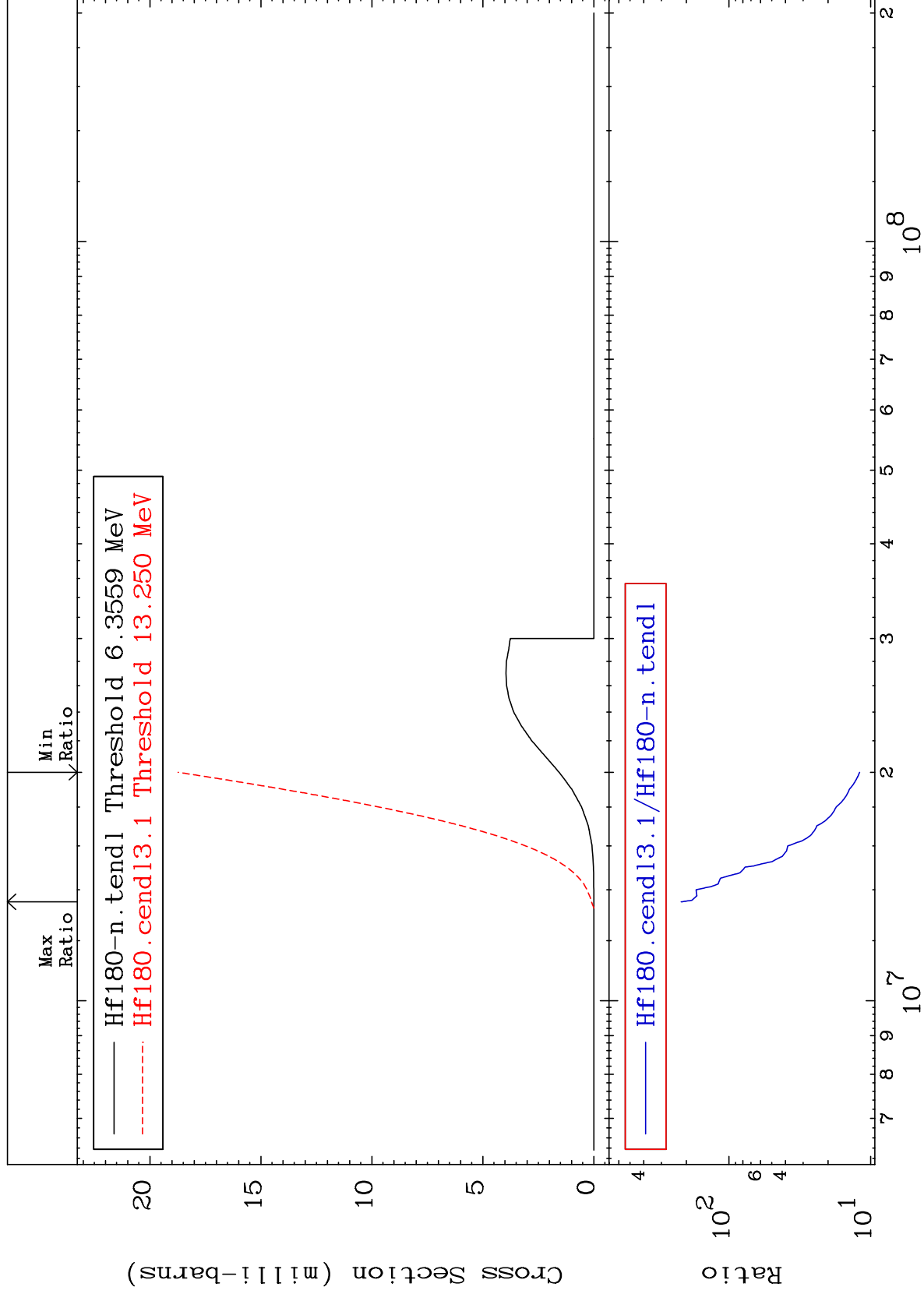
MAT 7243

(n, t)

72-Hf-180

Cross Section

1097. To 9999. %



16

Incident Energy (eV)

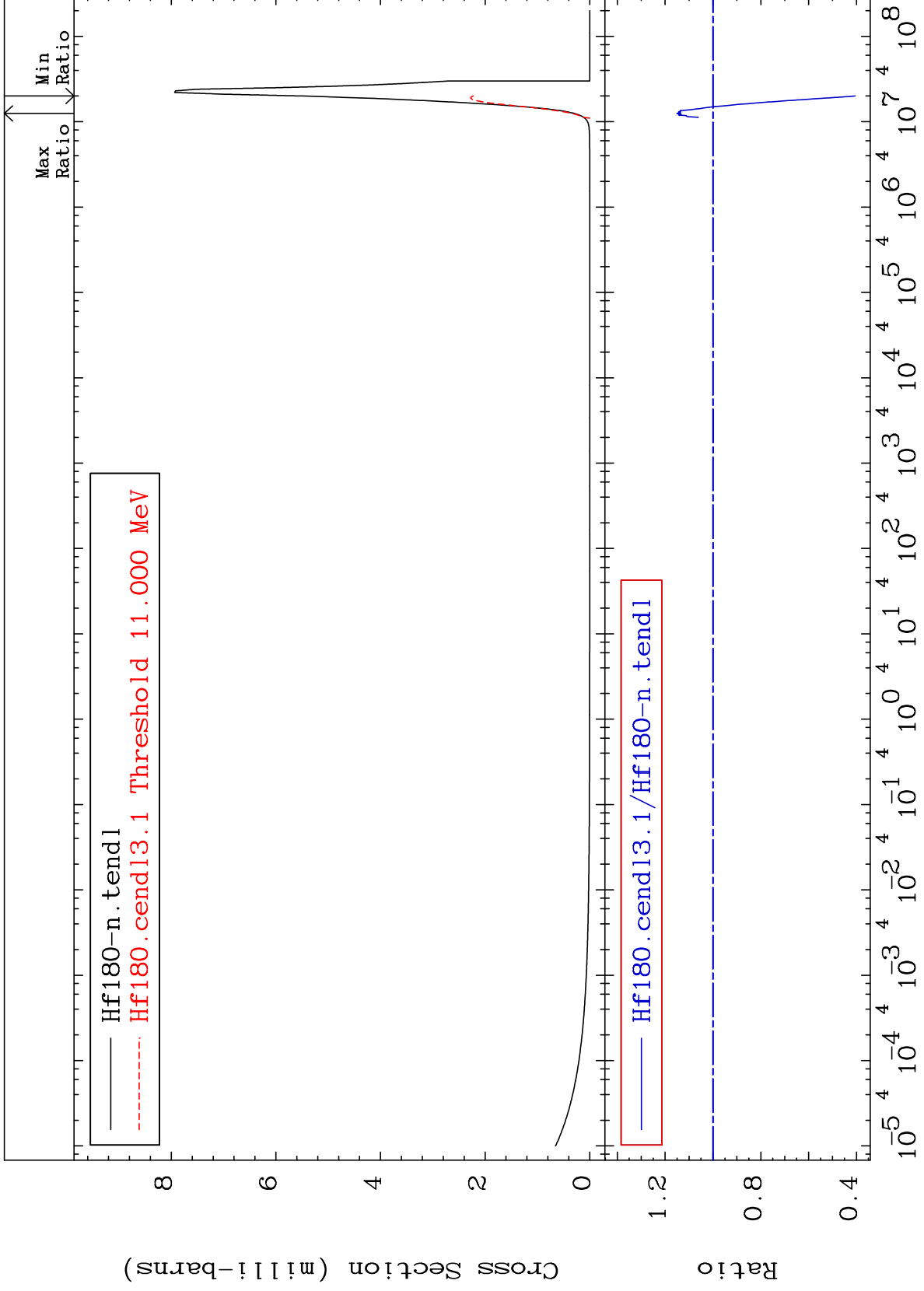
72-Hf-180



MAT 7243

(n,  $\alpha$ )  
Cross Section

72-Hf-180  
-59.42 To 15.07 %



Incident Energy (eV)

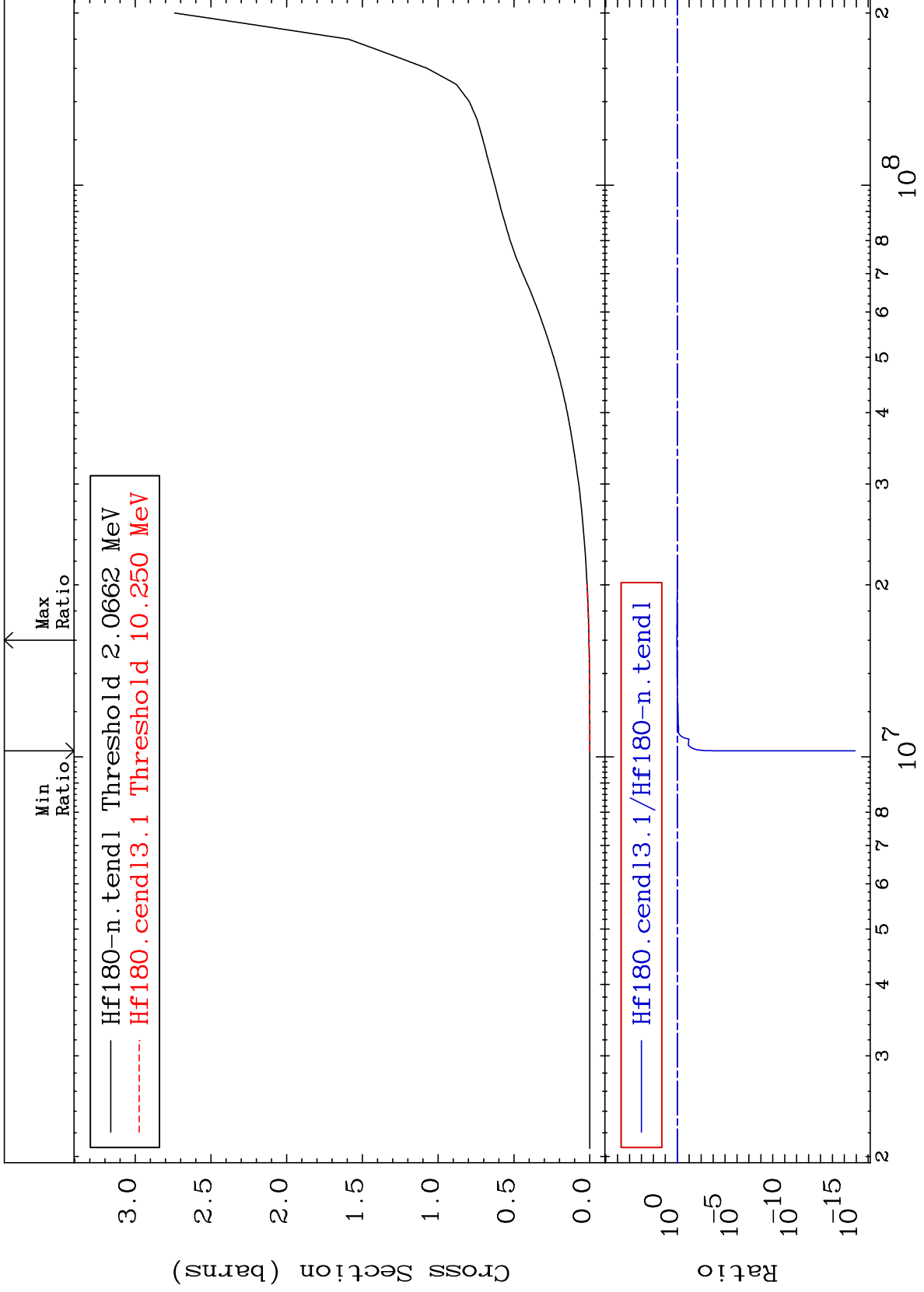
72-Hf-180

17

MAT 7243

Hydrogen Production  
Cross Section

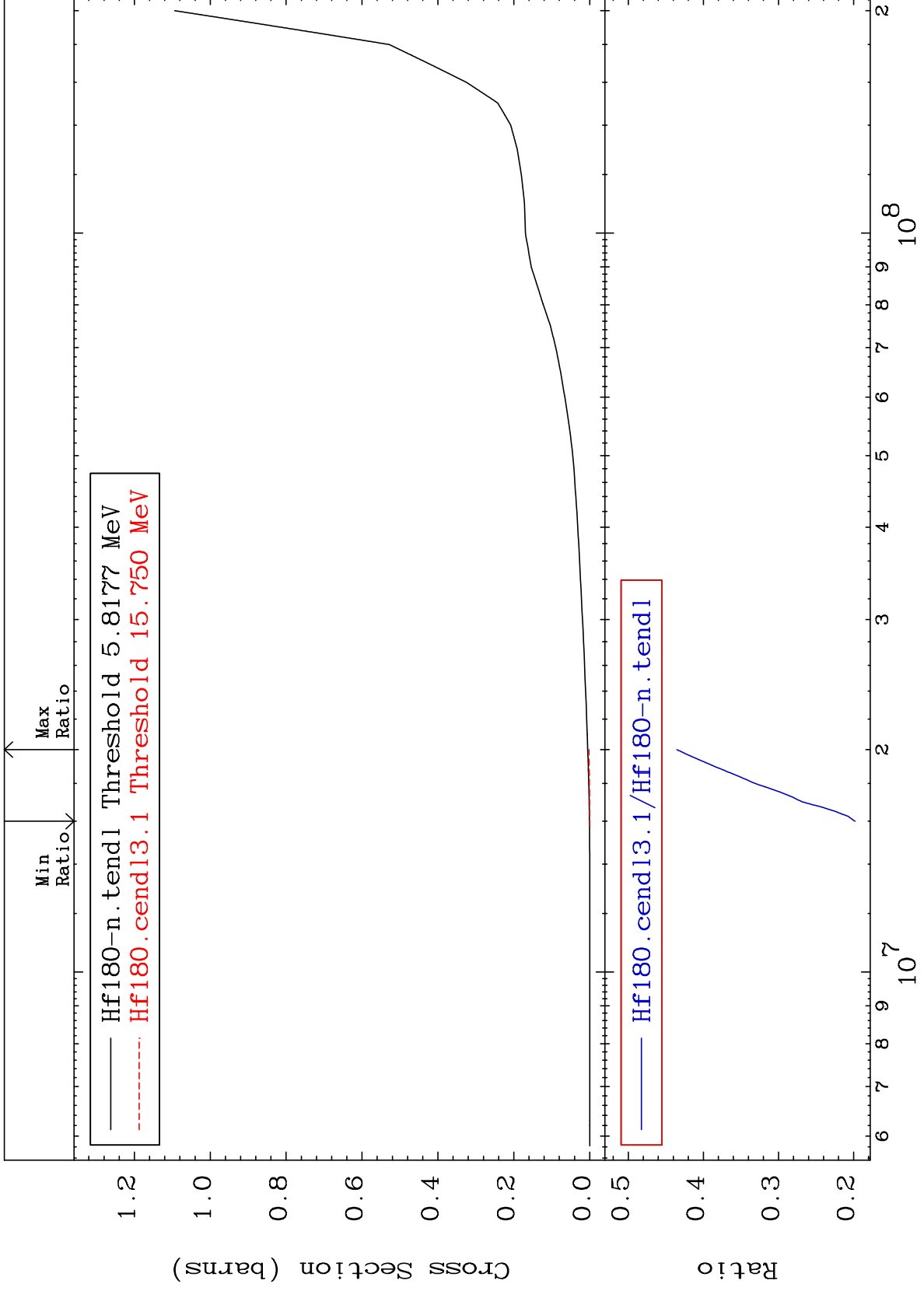
<sup>72</sup>Hf-180  
-100.0 To 7.285 %



MAT 7243

Deuterium Production  
Cross Section

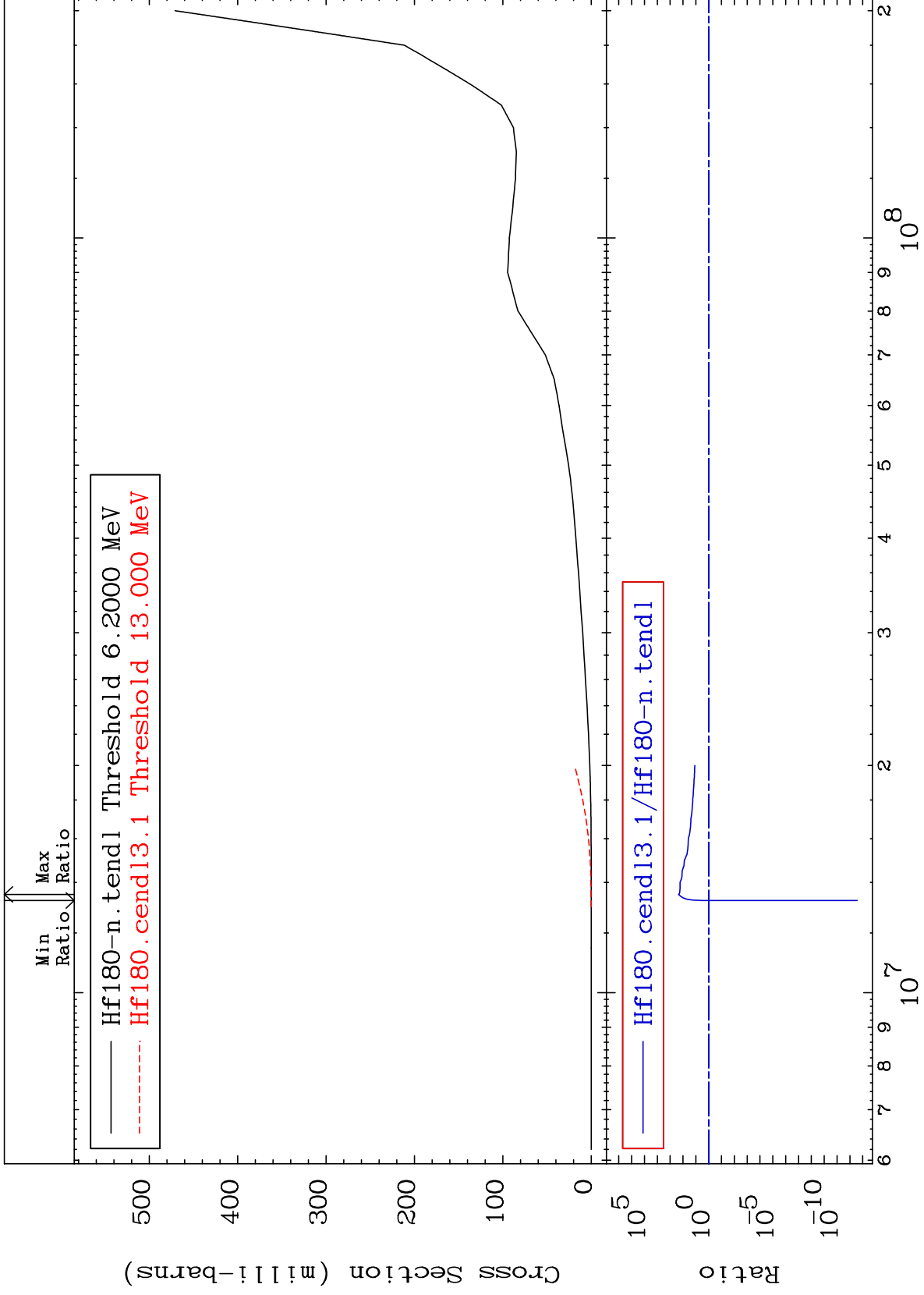
$^{72}\text{Hf-180}$   
-80.20 To -56.48%



MAT 7243

Tritium Production  
Cross Section

72-Hf-180  
-100.0 To 9999. %



20

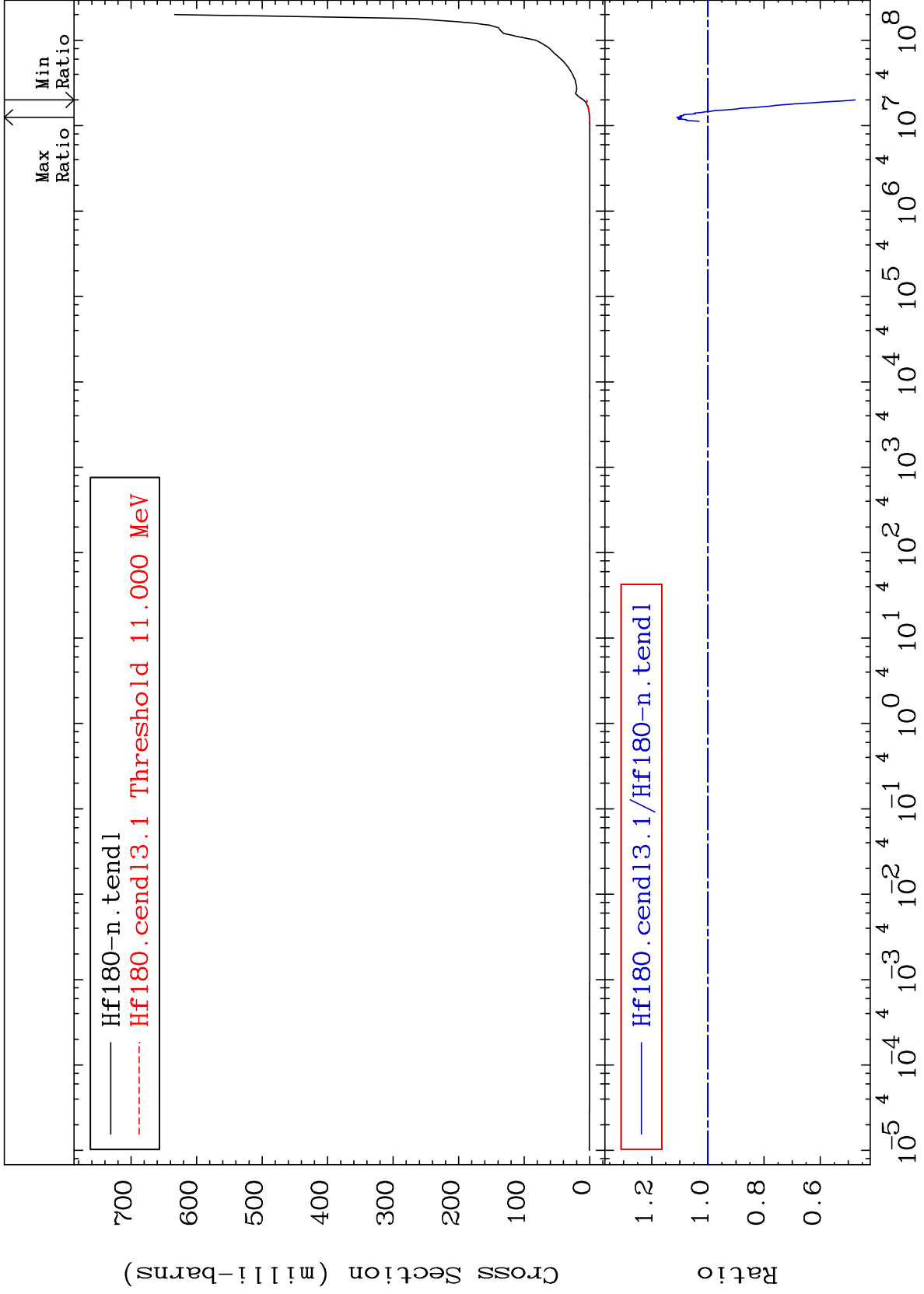
Incident Energy (eV)

72-Hf-180

MAT 7243

He-4 Production  
Cross Section

72-Hf-180  
-52.42 To 11.02 %



21

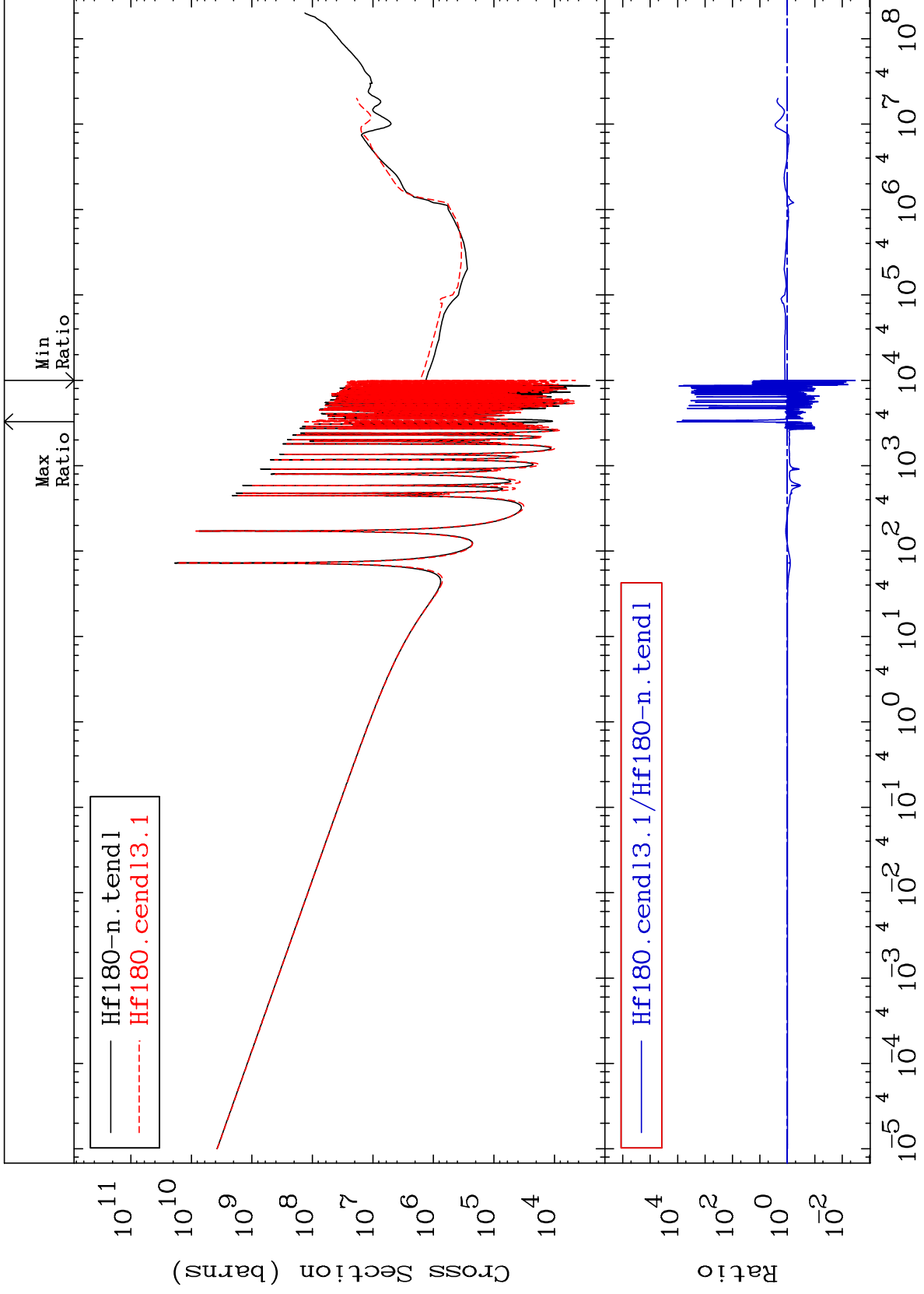
Incident Energy (eV)

72-Hf-180

MAT 7243

Kerma total (eV-barns)  
Cross Section

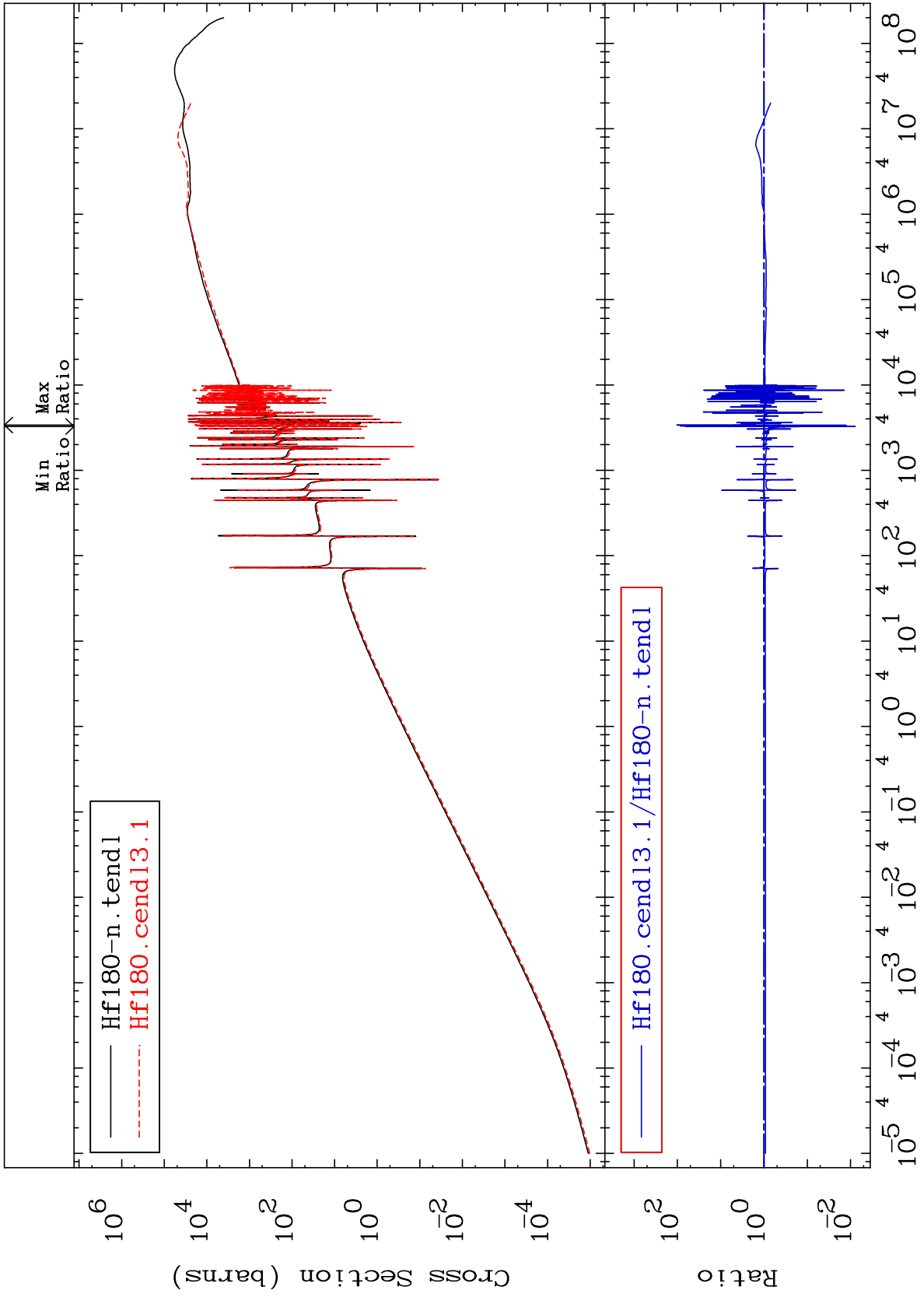
72-Hf-180  
-99.66 To 9999. %



MAT 7243

Kerma elastic  
Cross Section

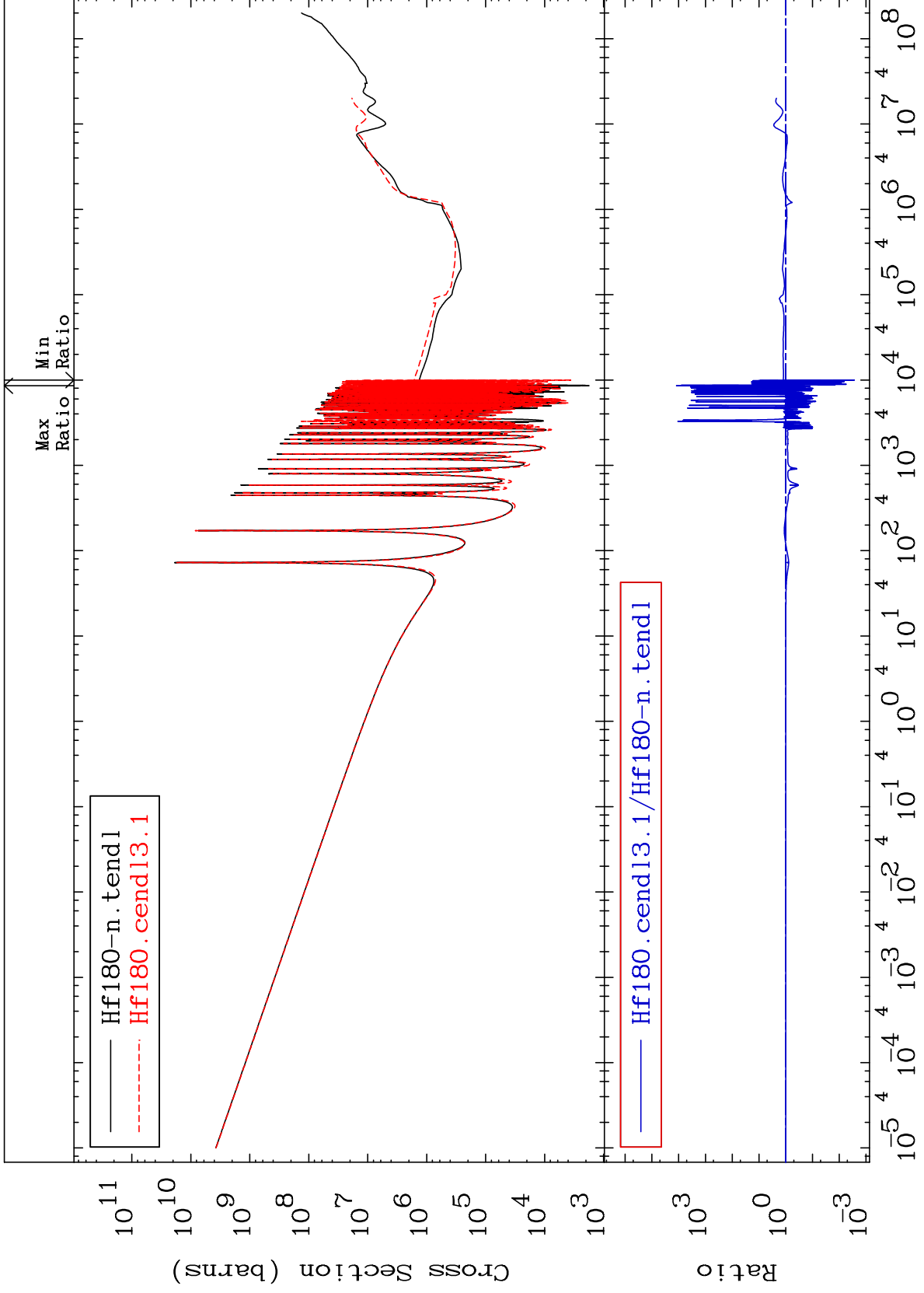
72-Hf-180  
-99.21 To 9999. %



MAT 7243

Kerma non-elastic (all but mt2)  
Cross Section

72-Hf-180  
-99.73 To 9999. %

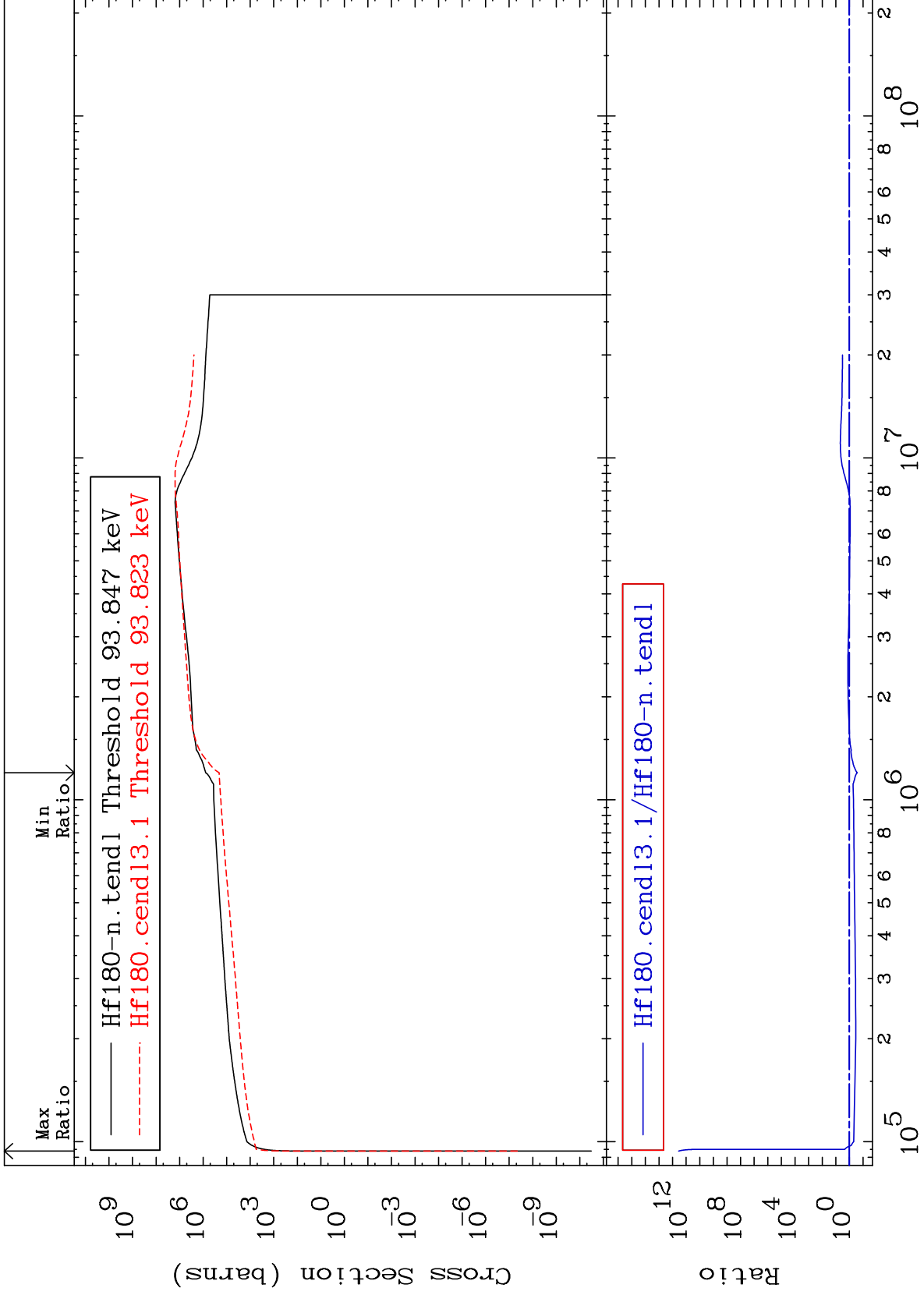




MAT 7243

Kerma inelastic (mt51-91)  
Cross Section

72-Hf-180  
-73.42 To 9999. %



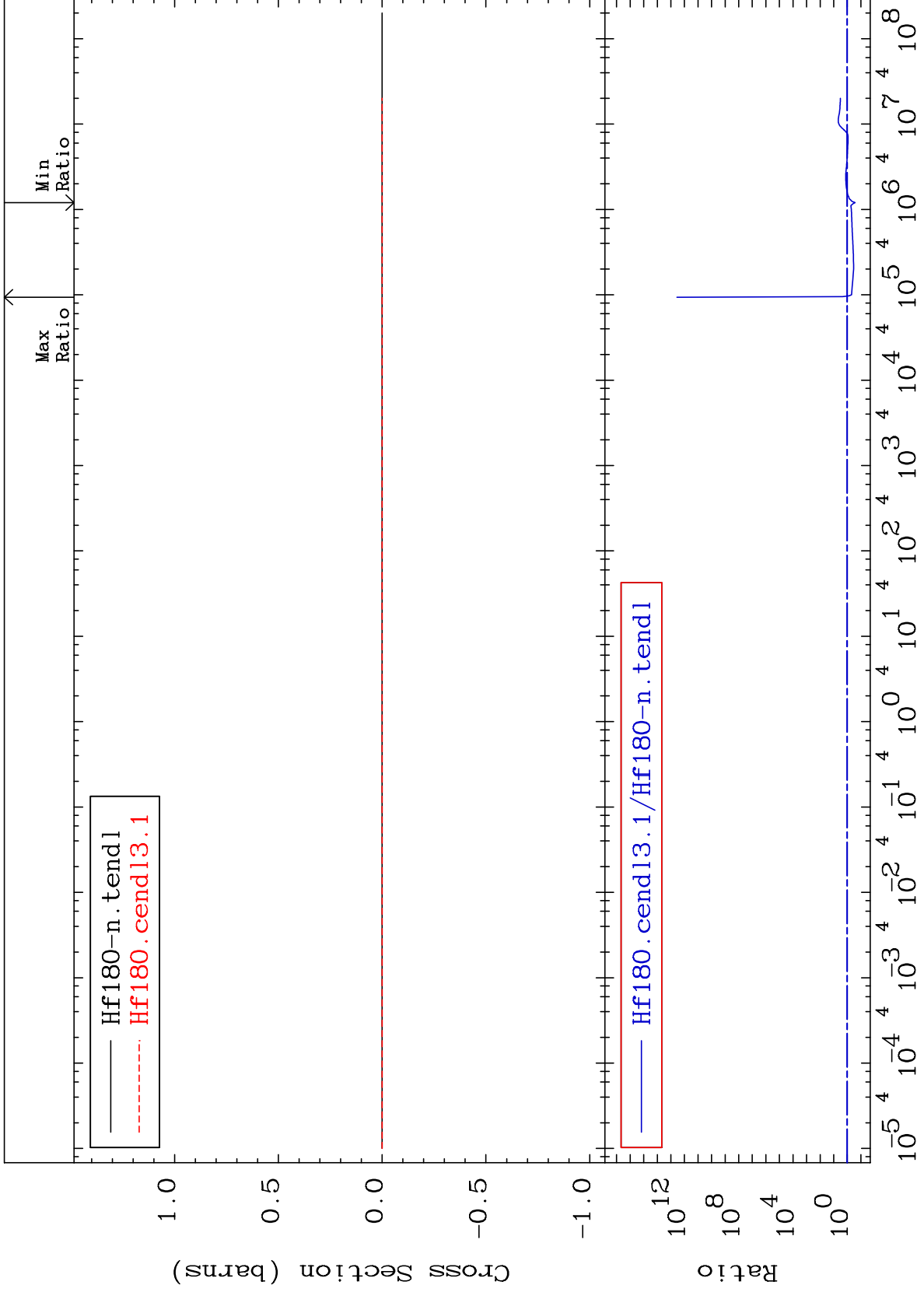
25

72-Hf-180

MAT 7243

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

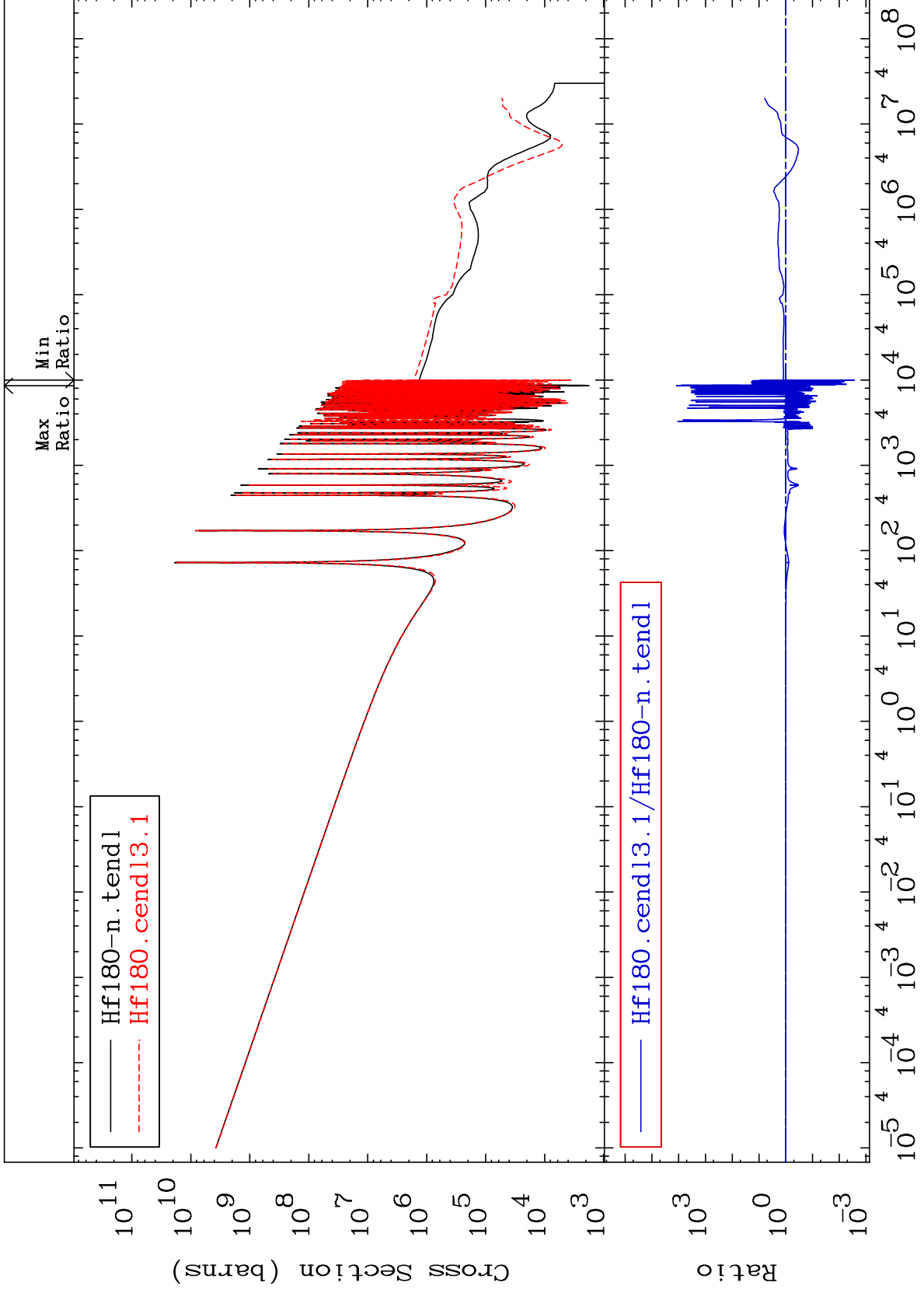
72-Hf-180  
-73.42 To 9999. %



MAT 7243

Kerma capture (mt102)  
Cross Section

<sup>72</sup>Hf-180  
-99.73 To 9999. %



27

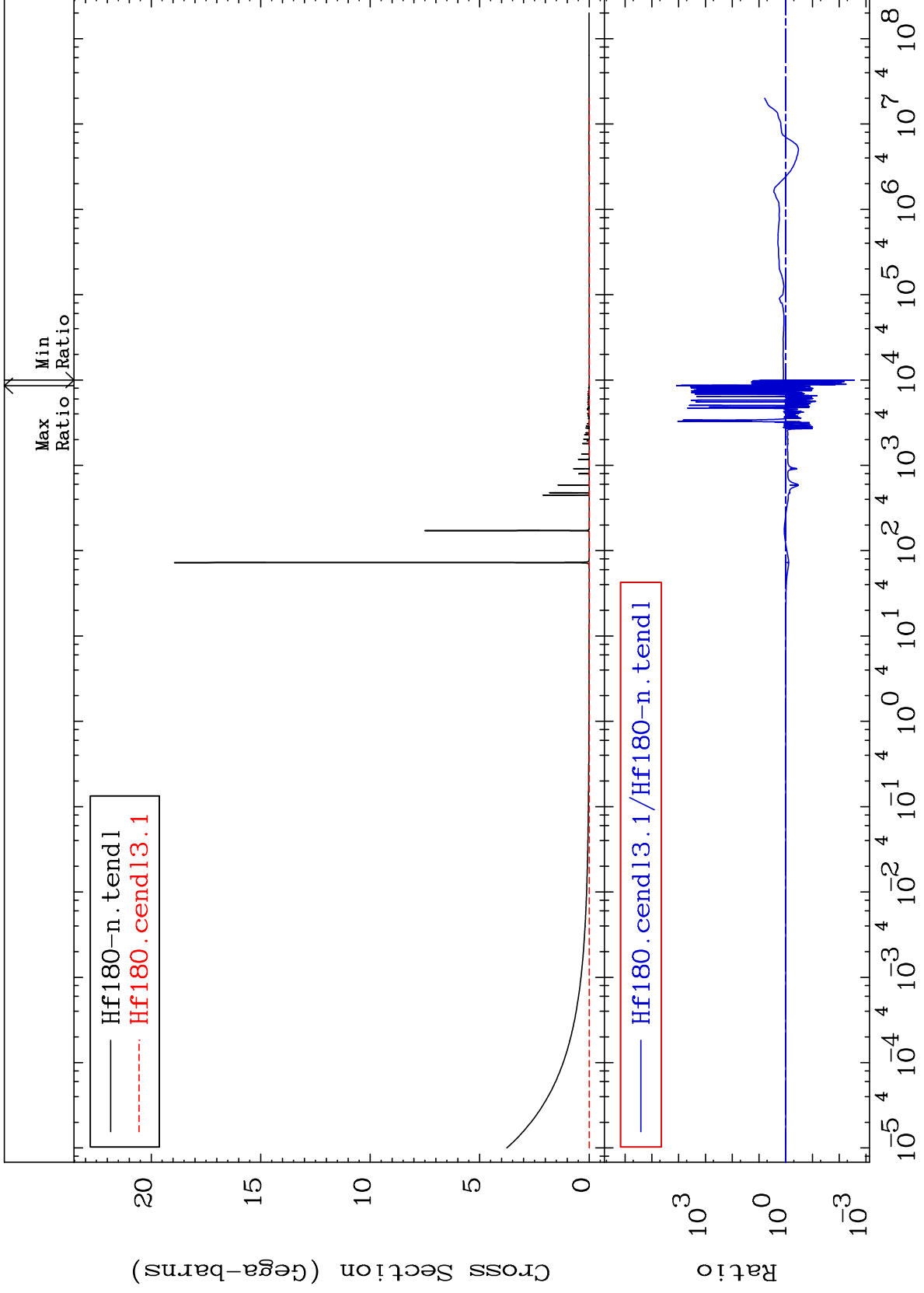
Incident Energy (eV)

<sup>72</sup>Hf-180

MAT 7243

Total photon (eV-barns)  
Cross Section

72-Hf-180  
-99.73 To 9999. %



28

Incident Energy (eV)

72-Hf-180

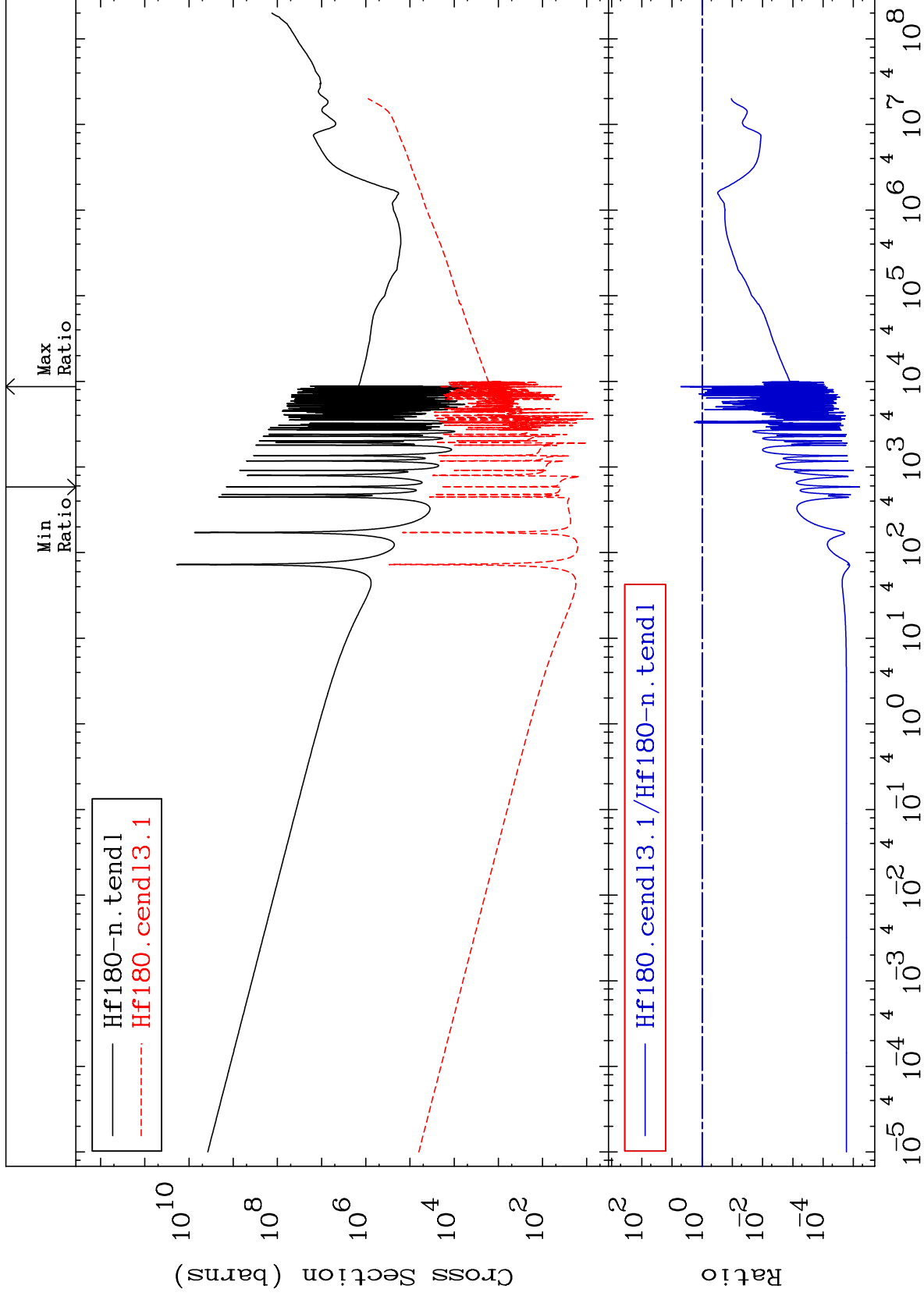
MAT 7243

Total kinematic kerma (high limit)

72-Hf-180

Cross Section

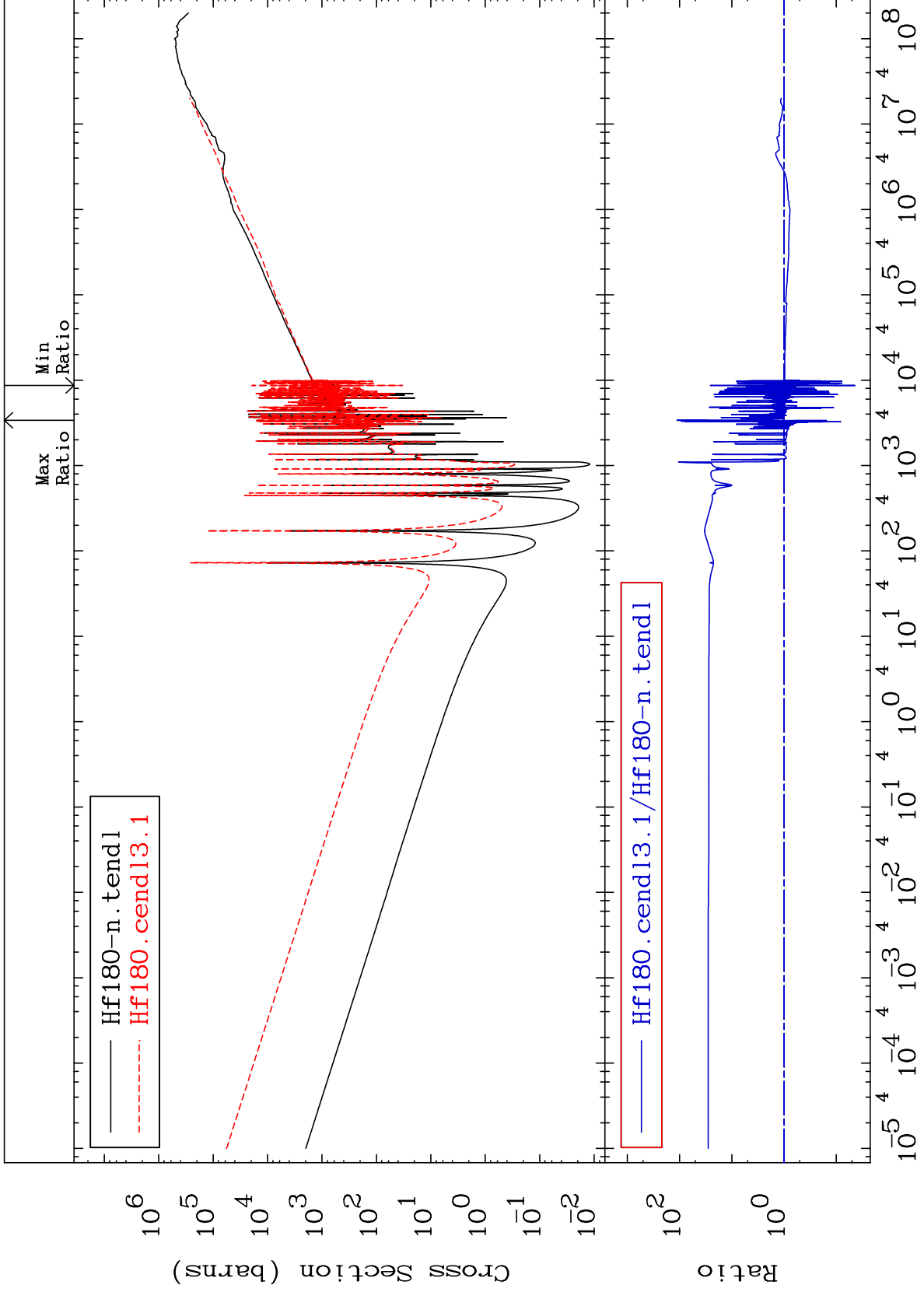
-100.0 To 411.4 %



MAT 7243

Dpa total (eV-barns)  
Cross Section

72-Hf-180  
-95.63 To 9999. %



30

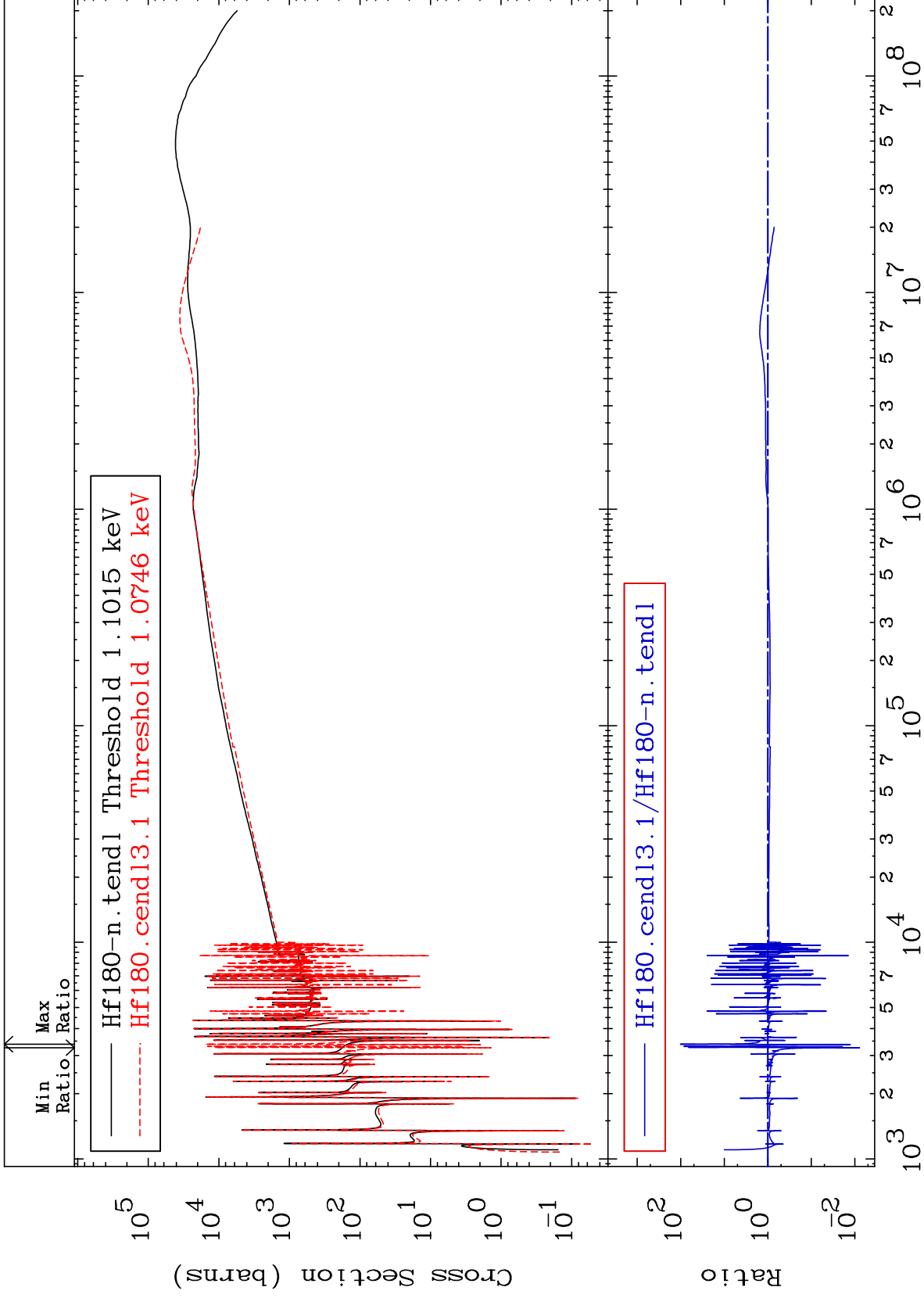
Incident Energy (eV)

72-Hf-180

MAT 7243

Dpa elastic (mt2)  
Cross Section

72-Hf-180  
-99.21 To 9999. %



31

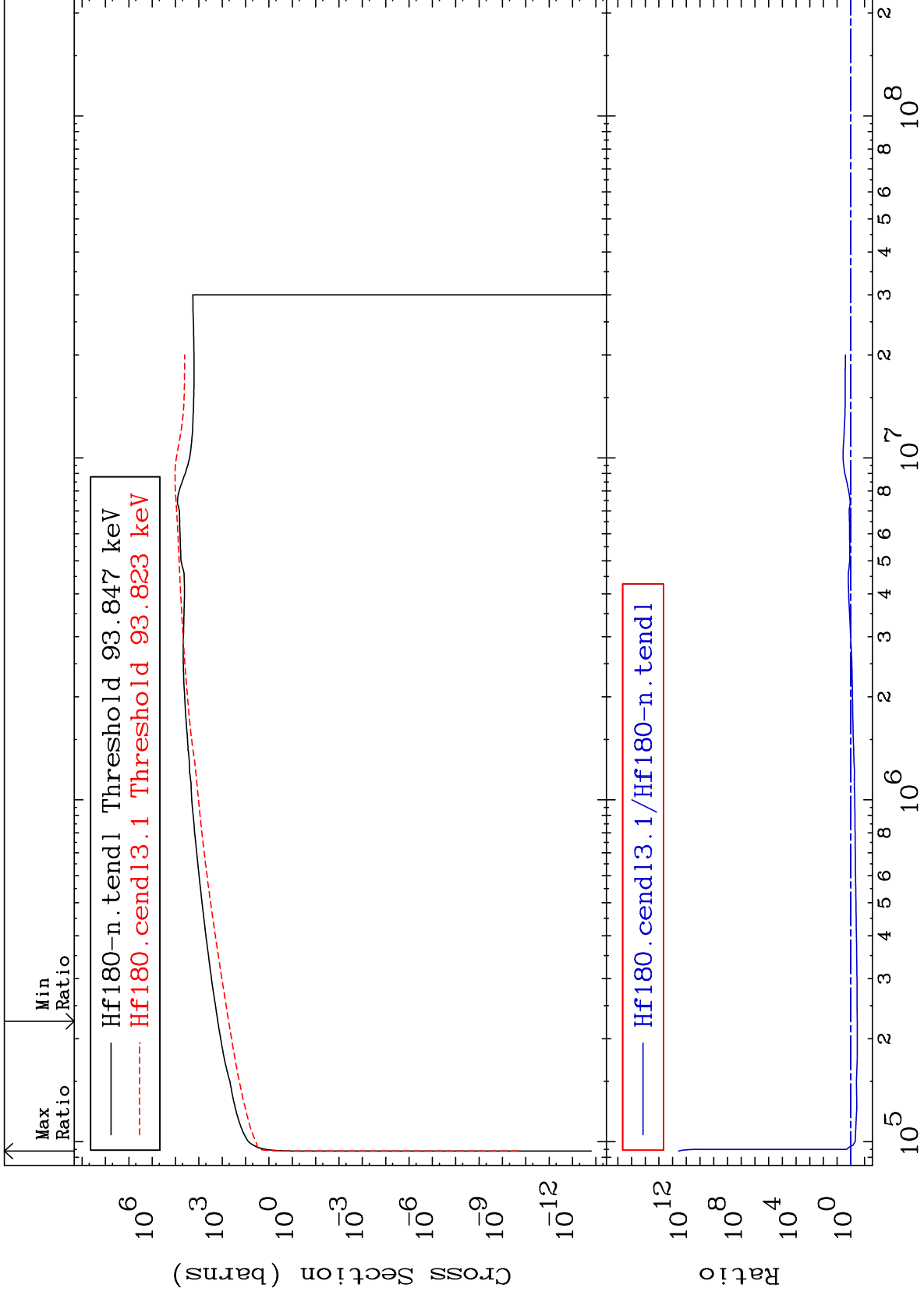
Incident Energy (eV)

72-Hf-180

MAT 7243

Dpa inelastic (mt51-91)  
Cross Section

72-Hf-180  
-65.81 To 9999. %



32

Incident Energy (eV)

72-Hf-180



