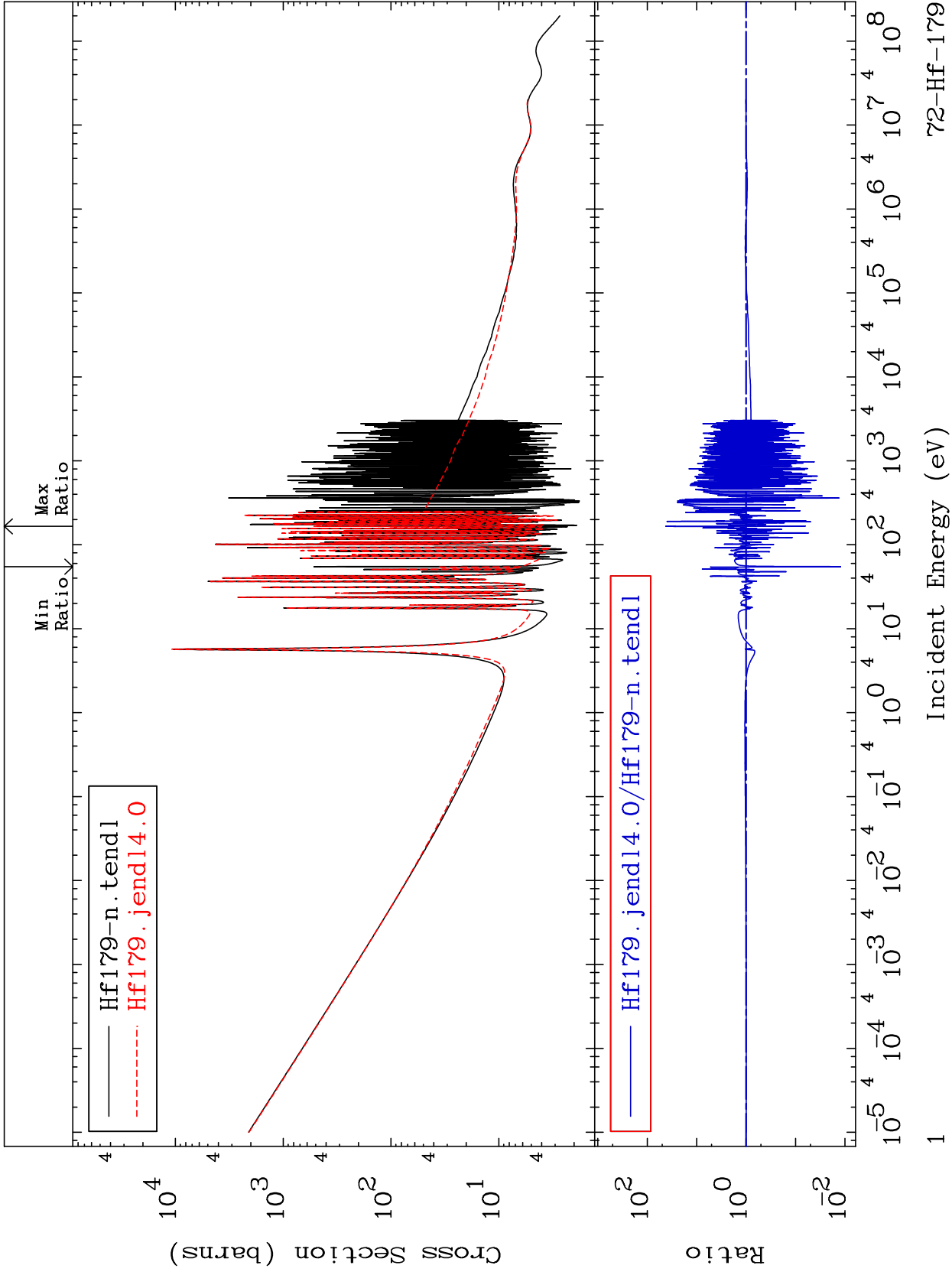


MAT 7240

Total Cross Section  
72-Hf-179  
-98.78 To 4168. %



72-Hf-179

Incident Energy (eV)

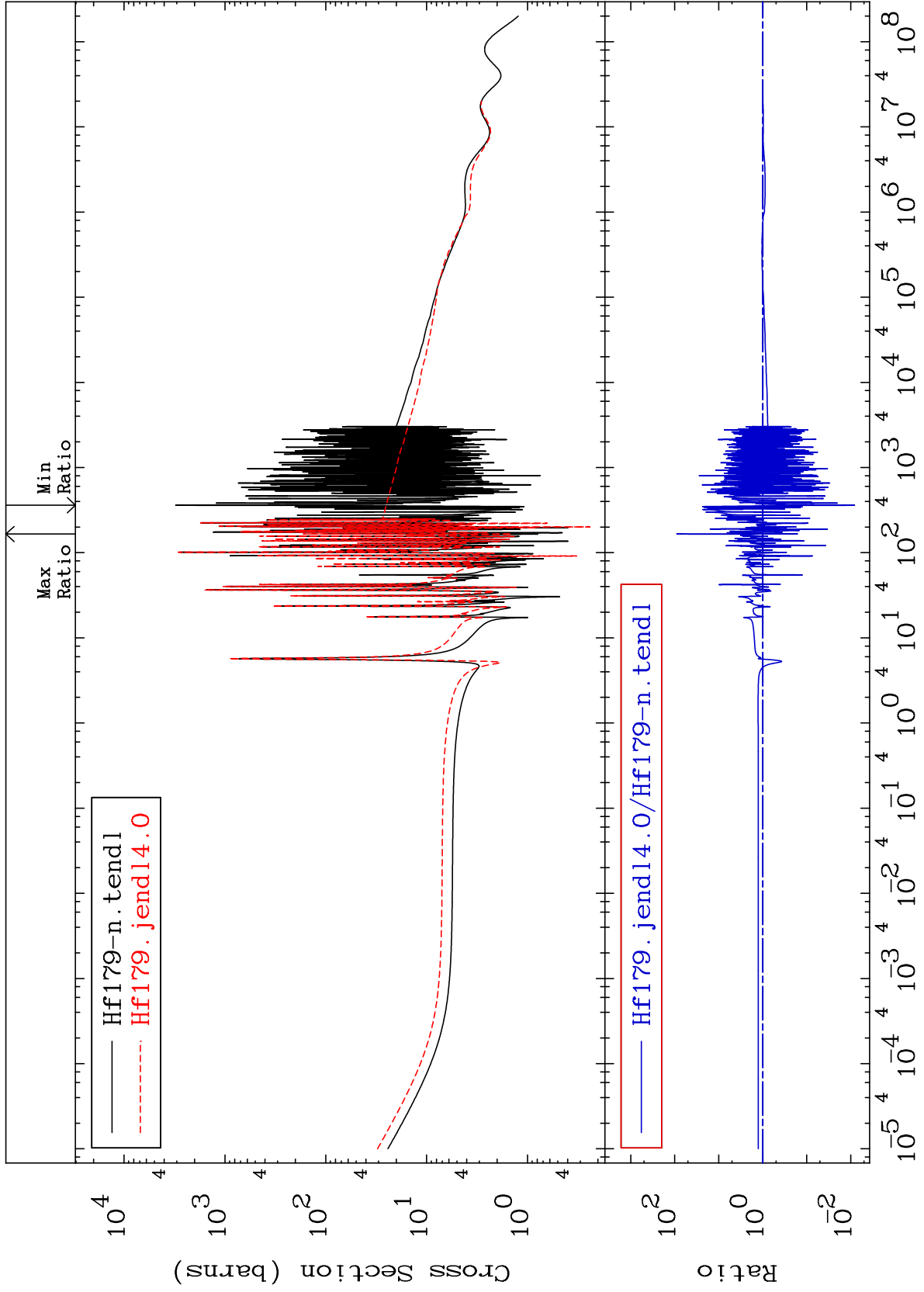
MAT 7240

Elastic

72-Hf-179

Cross Section

-99.18 To 8898. %

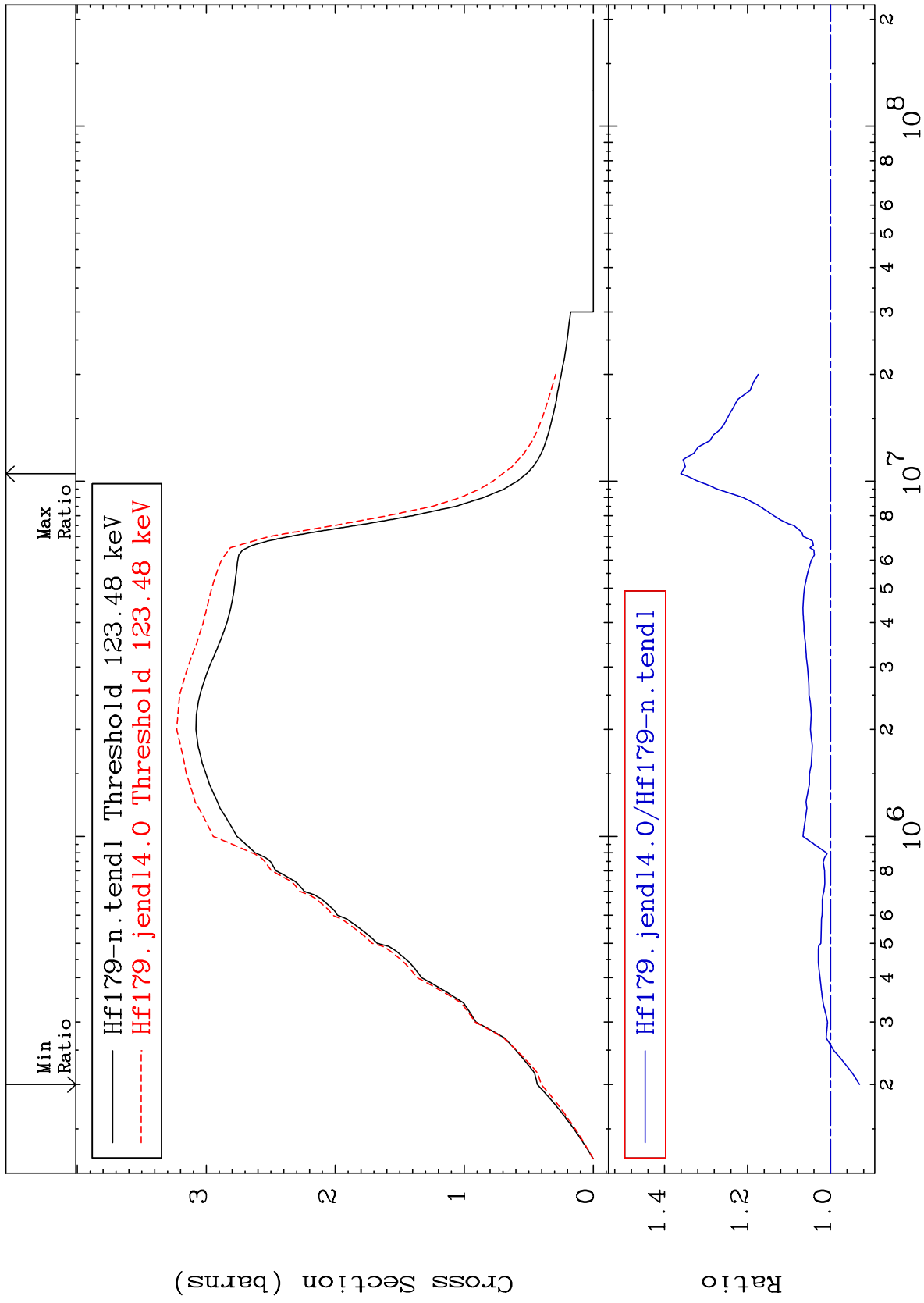


Incident Energy (eV)

72-Hf-179

2

MAT 7240 Inelastic Cross Section 72-Hf-179  
 -7.010 To 36.09 %



3 72-Hf-179 Incident Energy (eV)

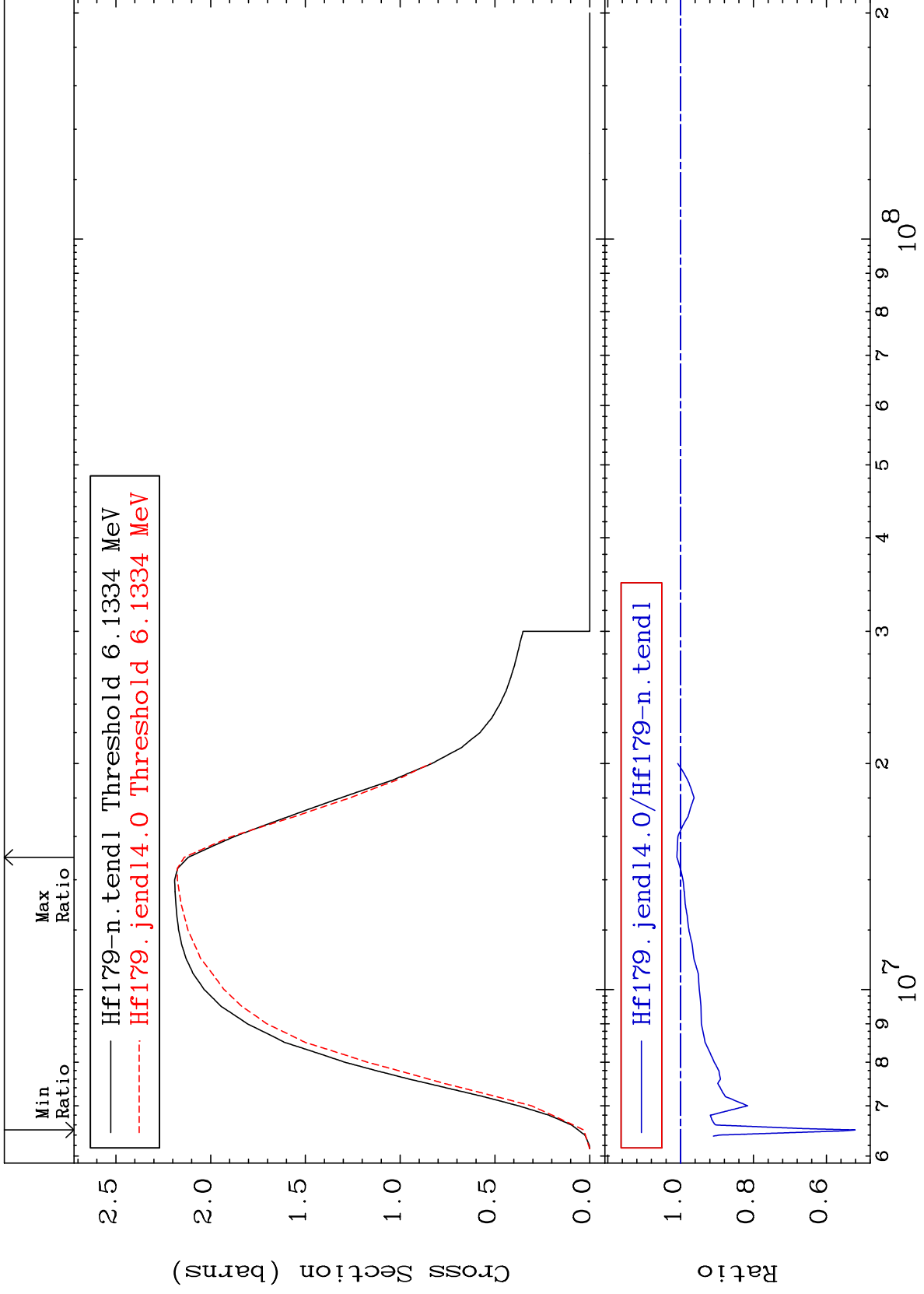
MAT 7240

(n,2n)

72-Hf-179

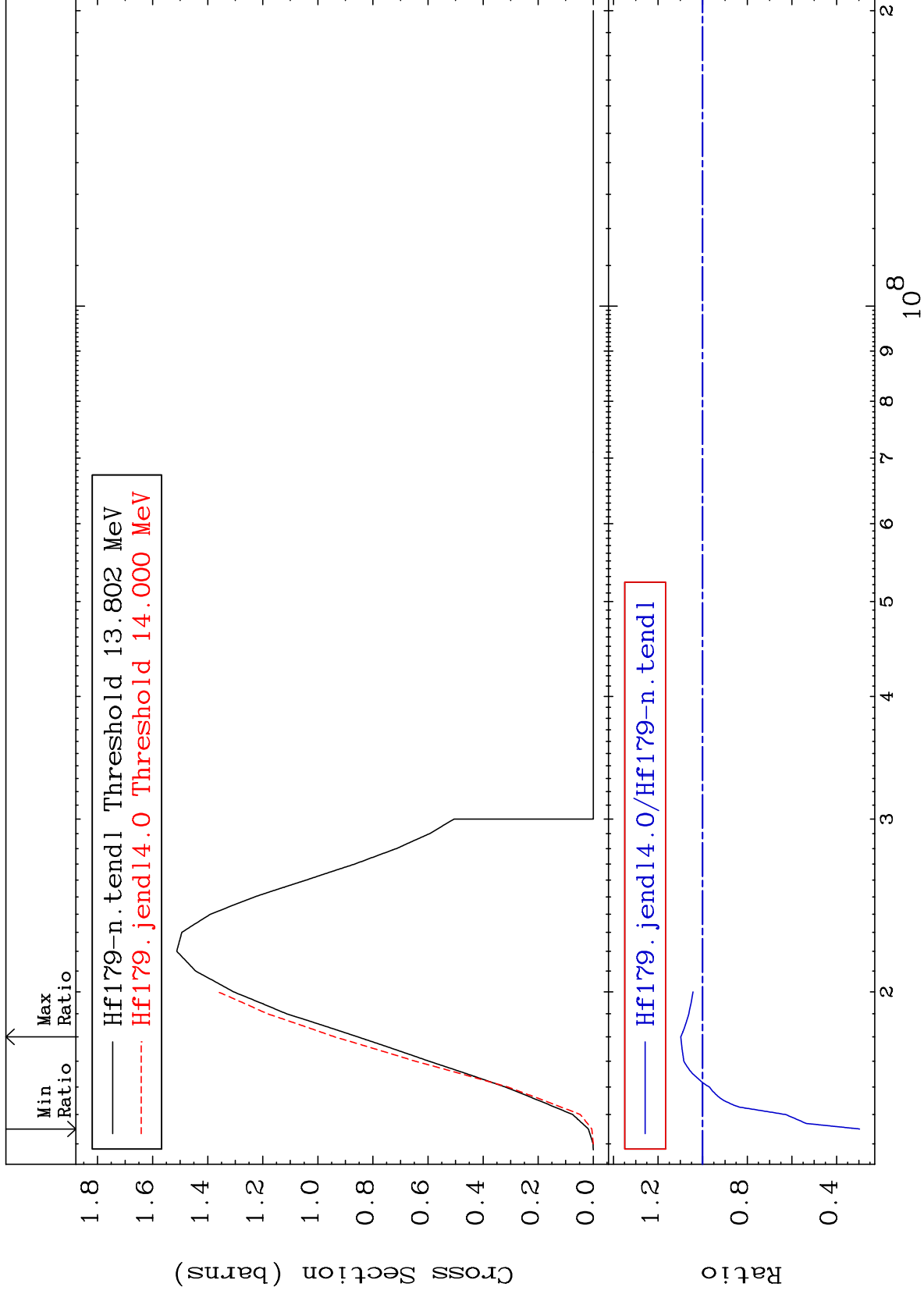
Cross Section

-47.88 To 1.012 %



Cross Section

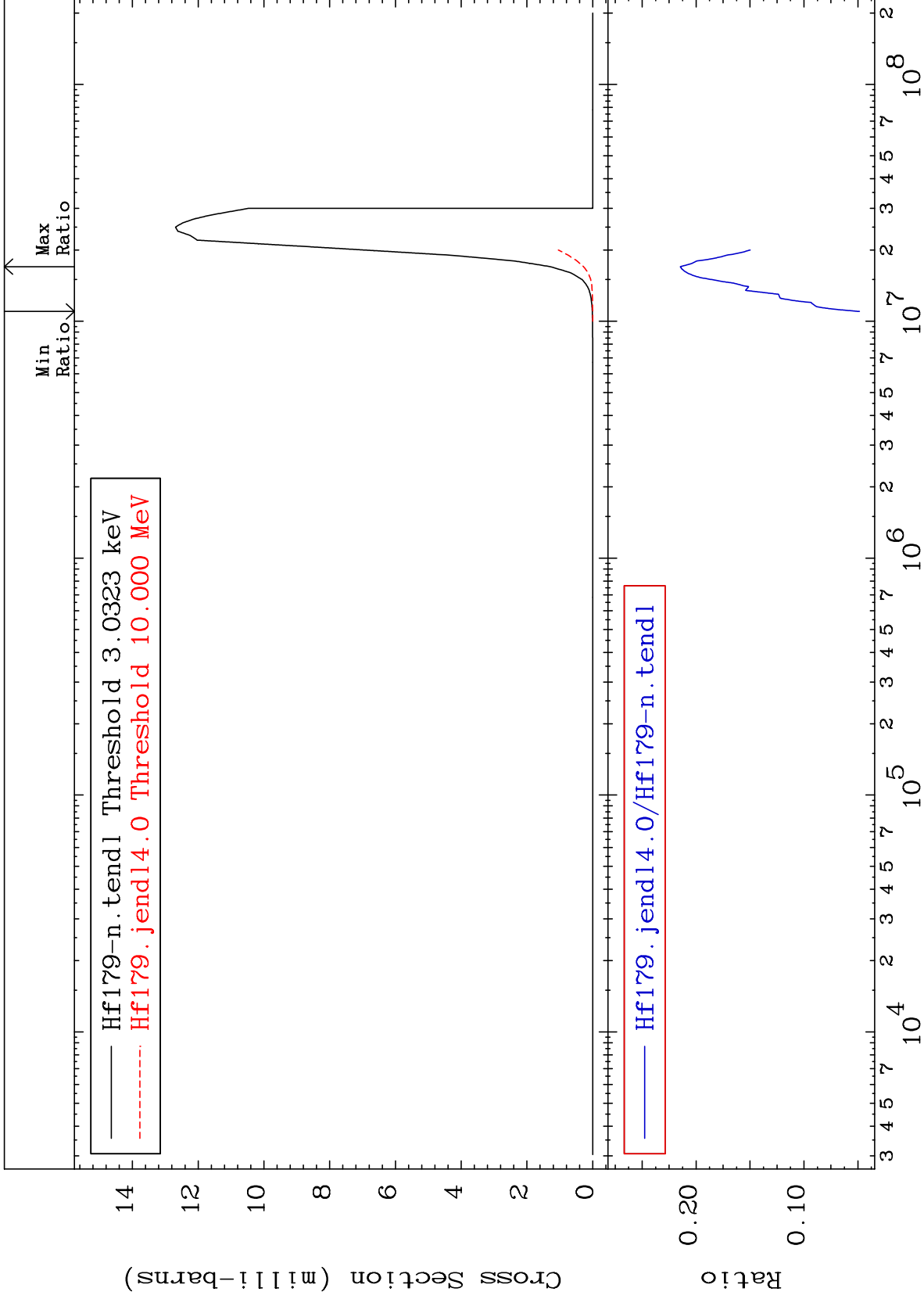
-70.29 To 9.810 %



MAT 7240

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

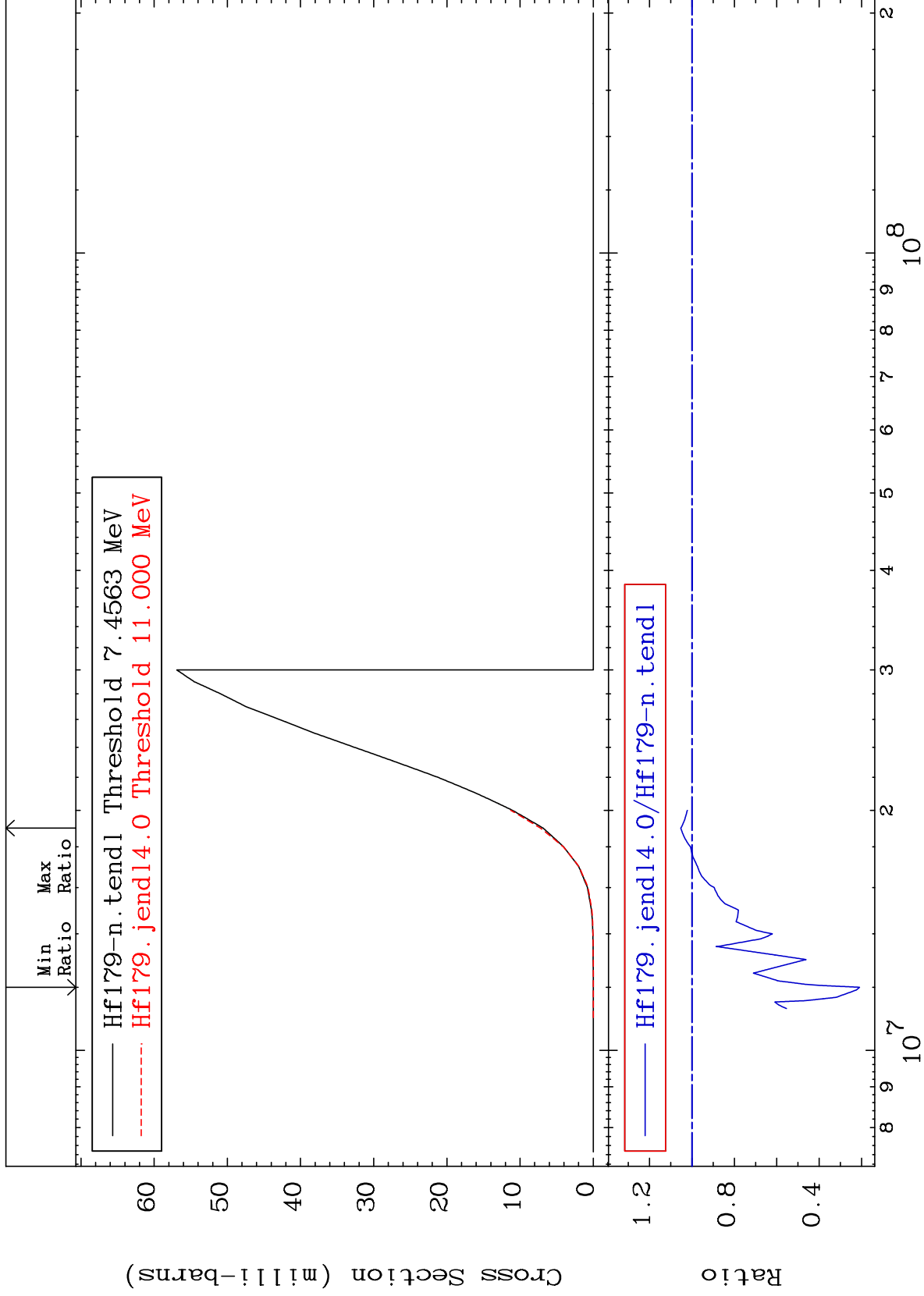
$^{72}\text{Hf-179}$   
-95.14 To -78.54%



MAT 7240

(n,n') p  
Cross Section

72-Hf-179  
-79.02 To 5.257 %



7

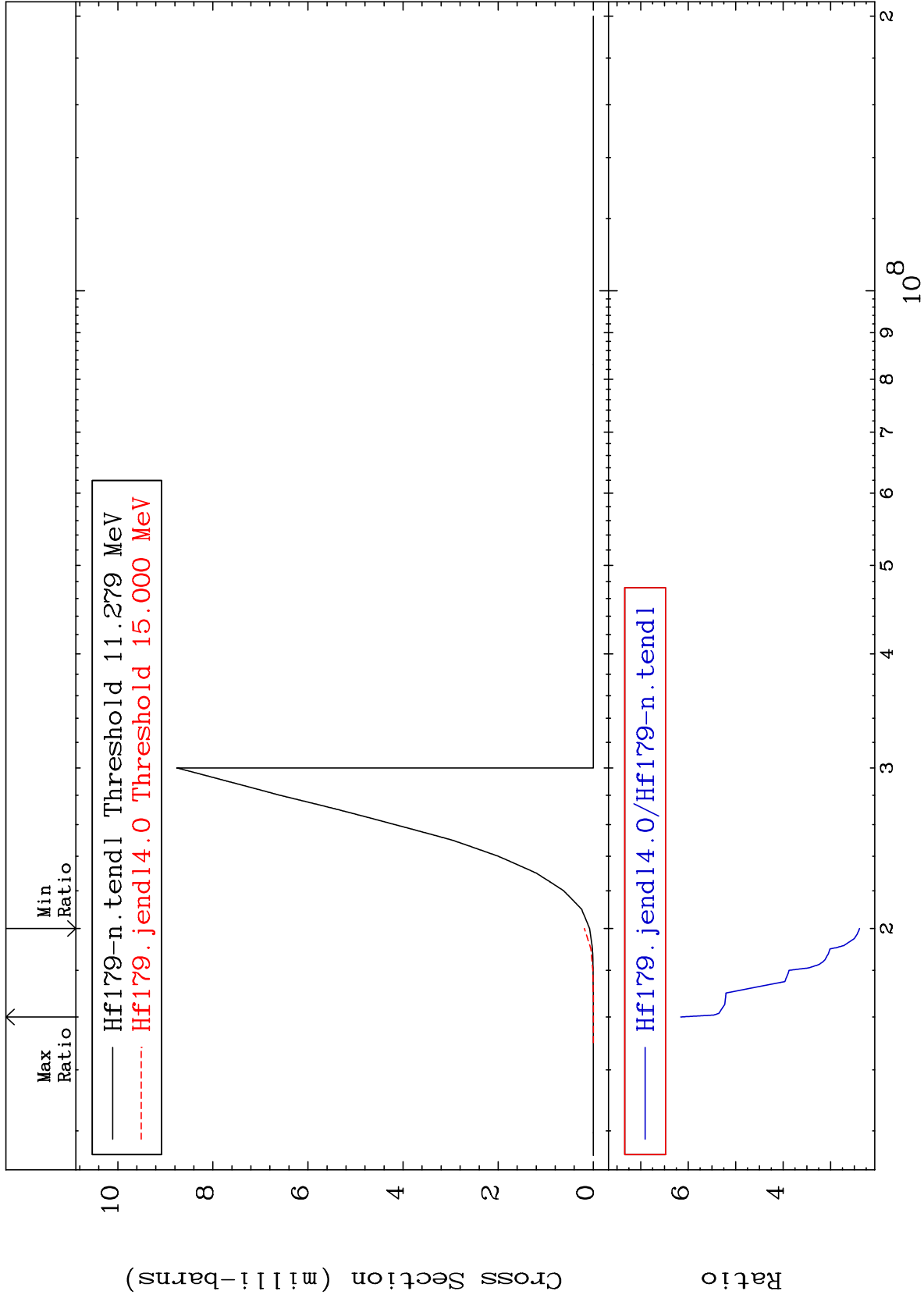
Incident Energy (eV)

72-Hf-179

MAT 7240

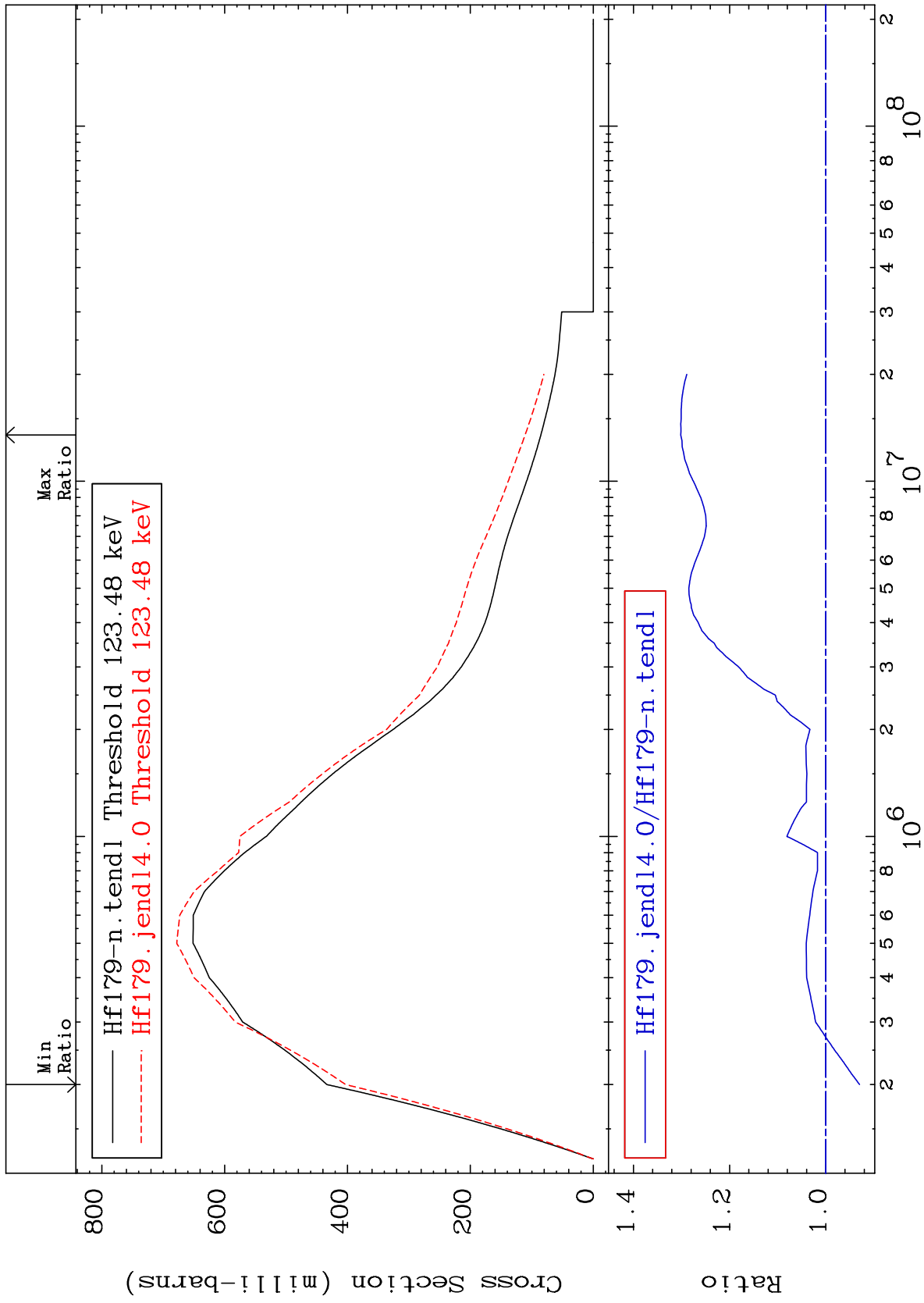
(n, n') d  
Cross Section

72-Hf-179  
139.0 To 515.7 %





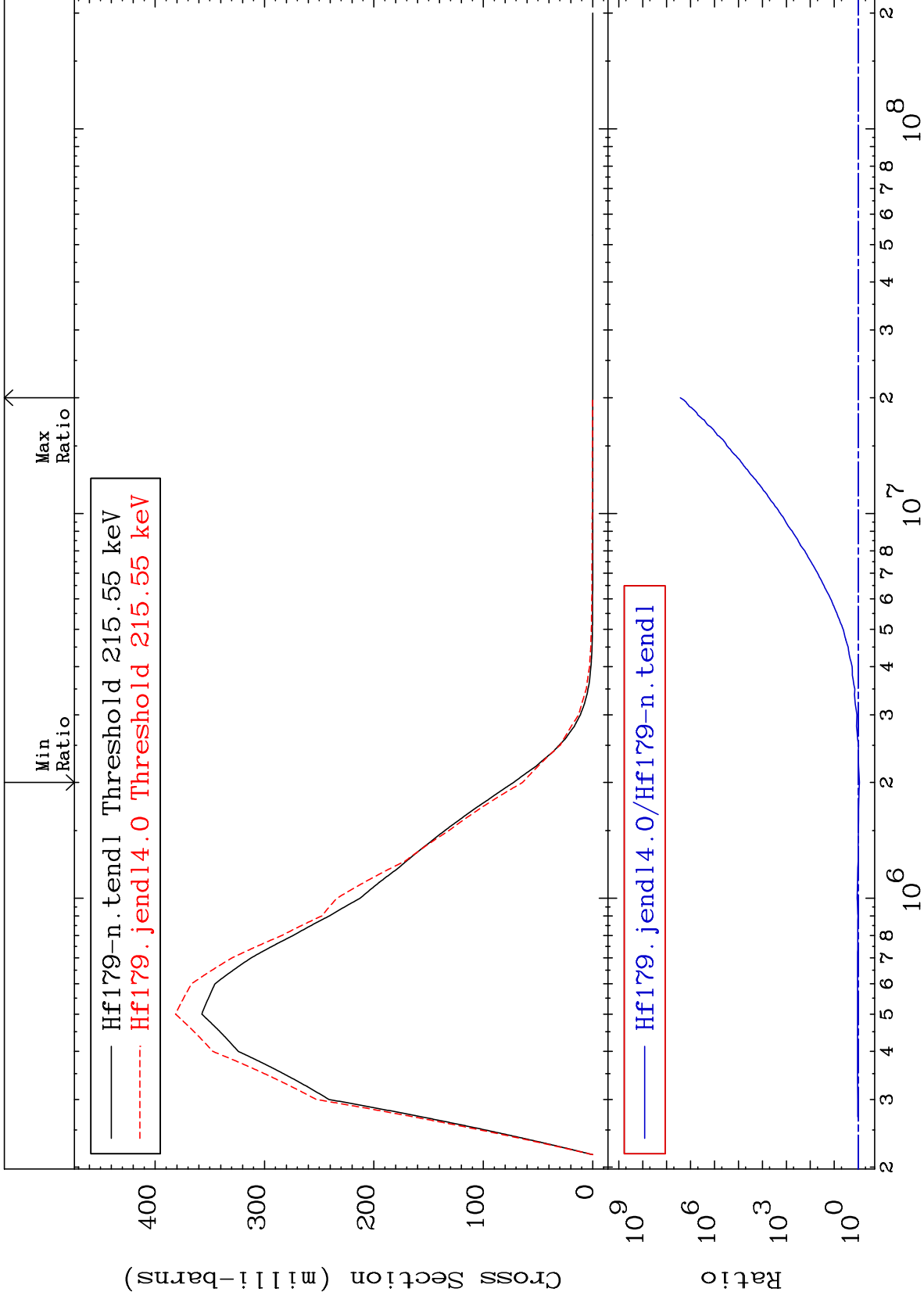
MAT 7240 122.8 keV (n,n') Level 72-Hf-179  
Cross Section -7.010 To 30.15 %



MAT 7240

214.3 keV (n,n') Level  
Cross Section

72-Hf-179  
-11.42 To 9999. %



10

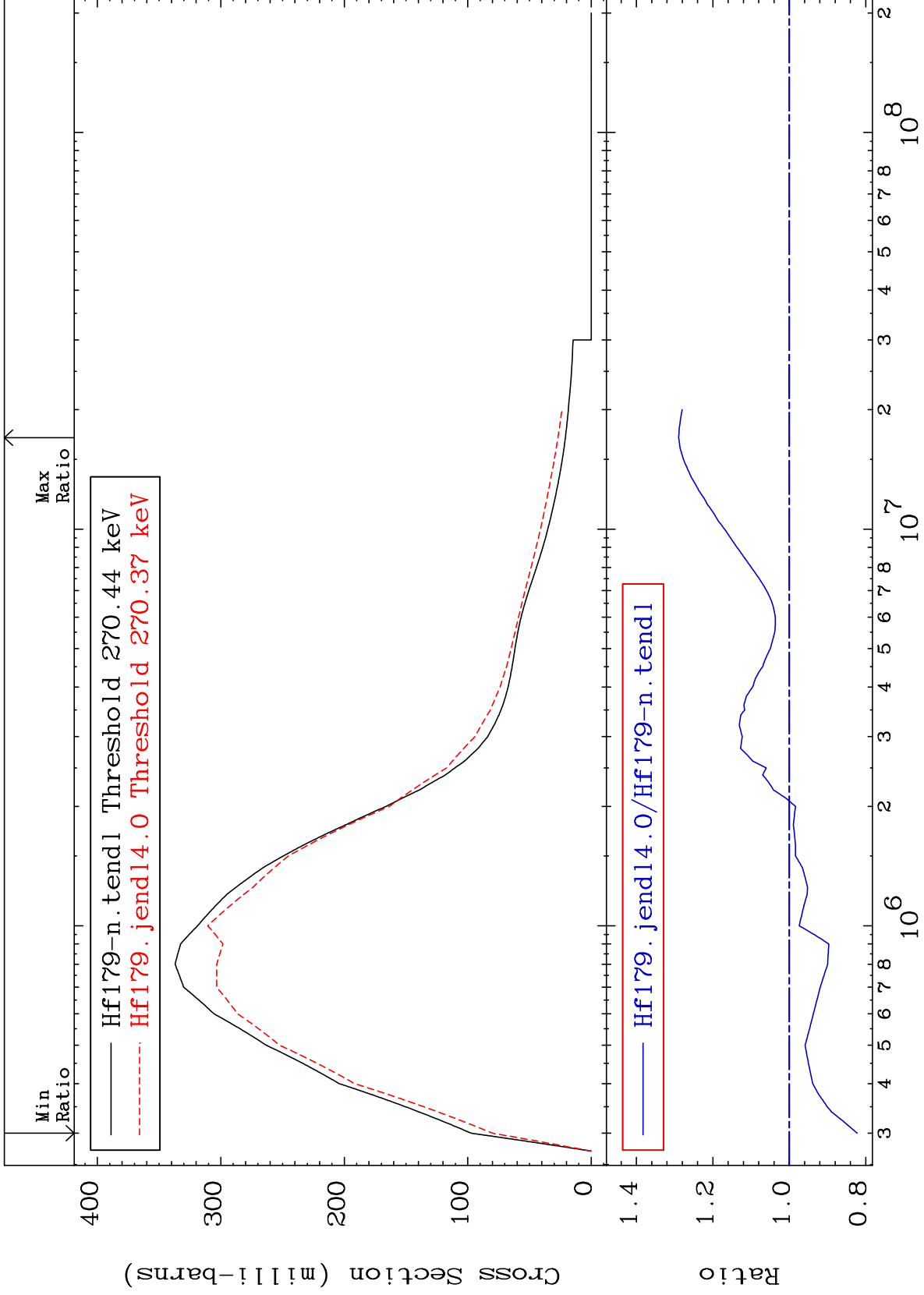
Incident Energy (eV)

72-Hf-179

MAT 7240

268.9 keV (n,n') Level  
Cross Section

72-Hf-179  
-17.78 To 28.96 %



11

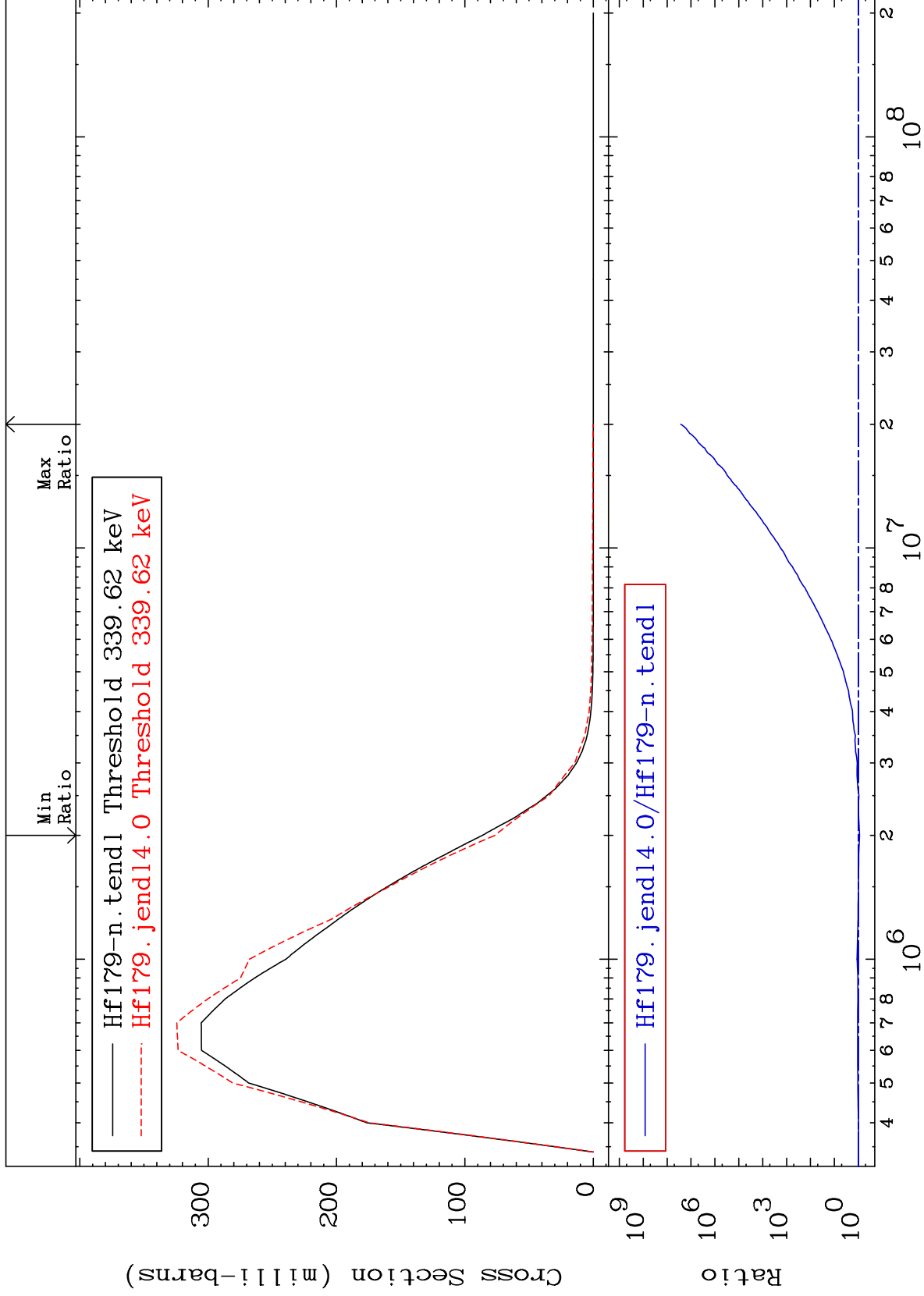
Incident Energy (eV)

72-Hf-179

MAT 7240

337.7 keV (n,n') Level  
Cross Section

72-Hf-179  
-11.28 To 9999. %



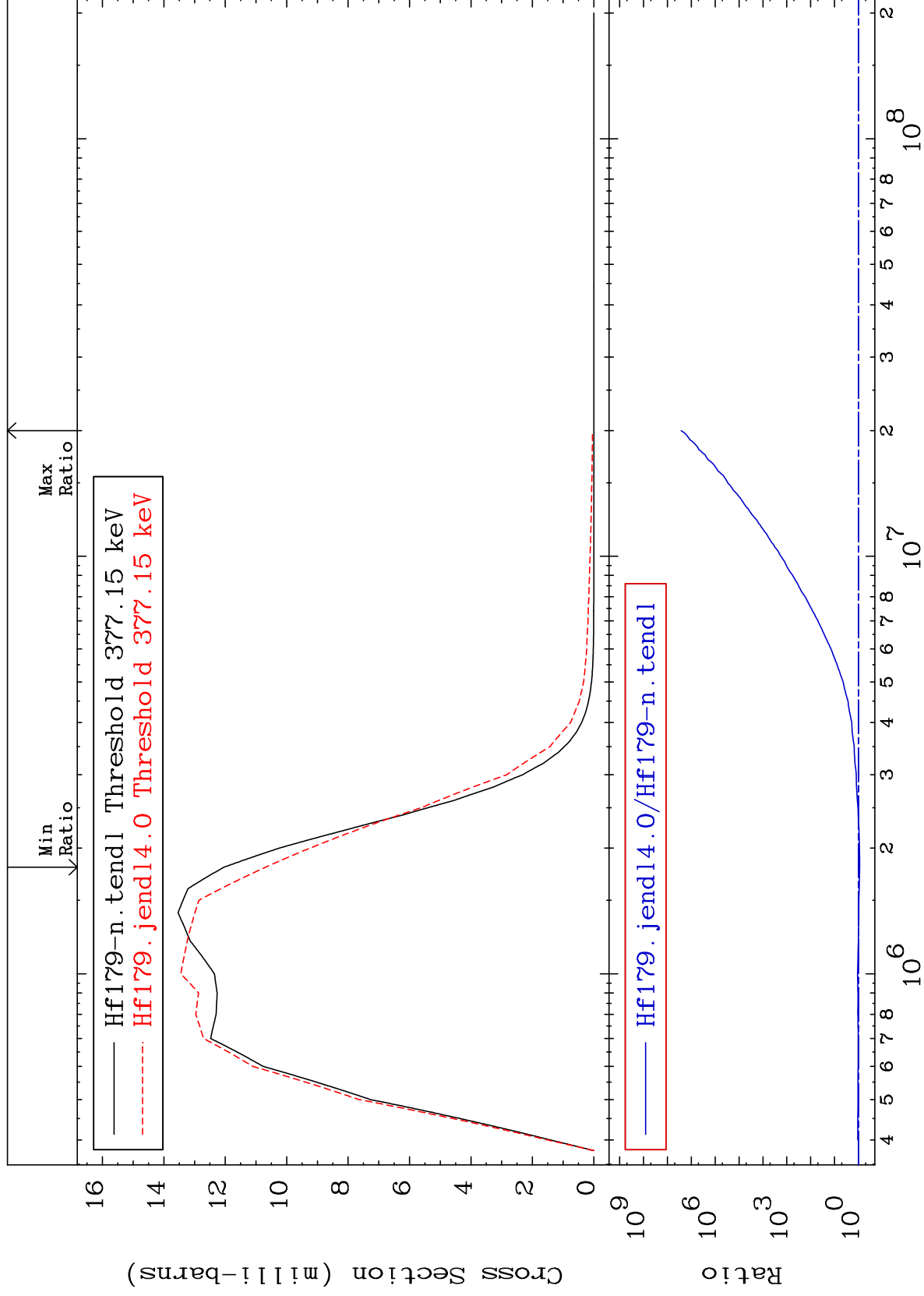
12

72-Hf-179

MAT 7240

375.0 keV (n,n') Level  
Cross Section

72-Hf-179  
-11.26 To 9999. %



13

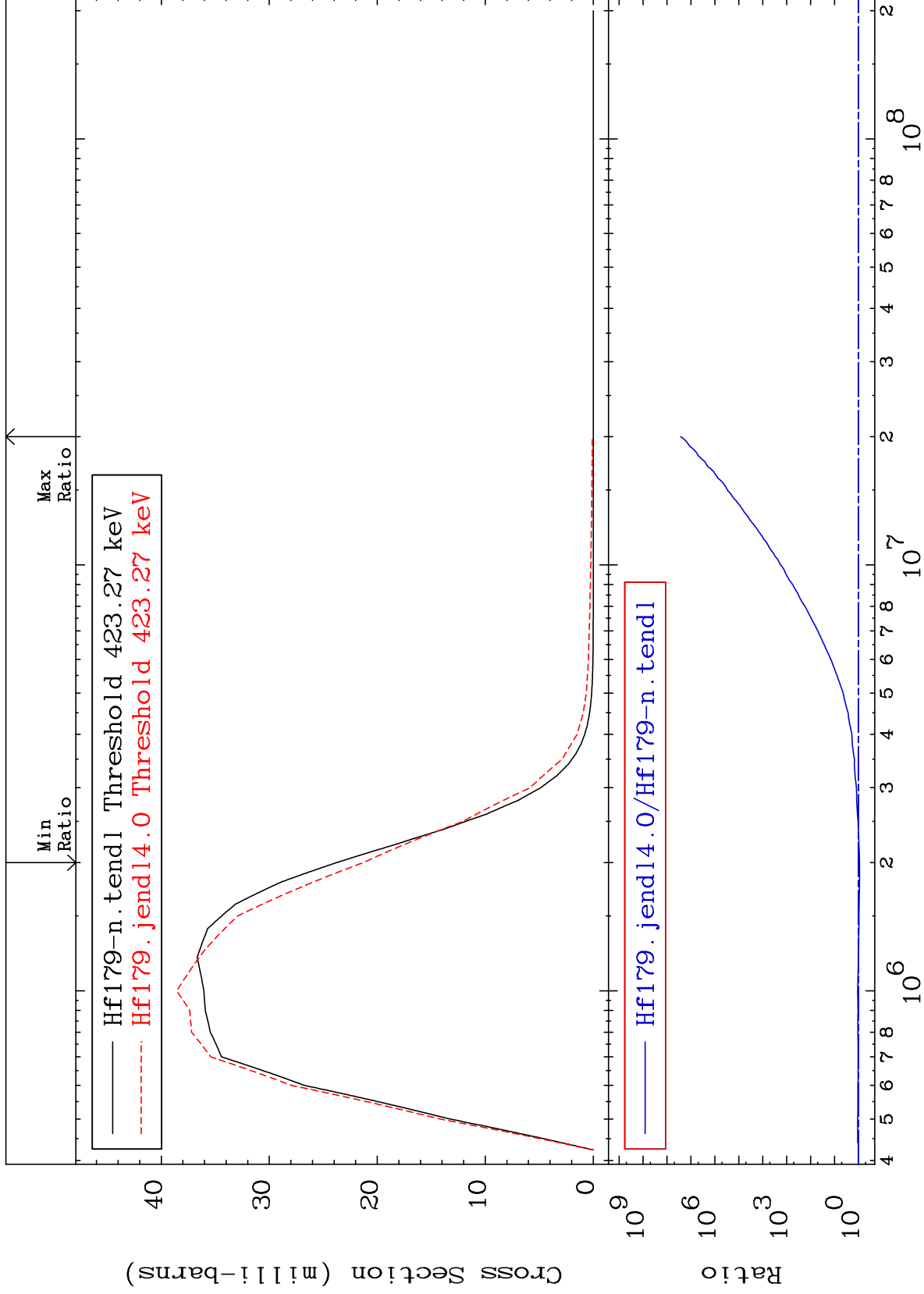
Incident Energy (eV)

72-Hf-179

MAT 7240

420.9 keV (n,n') Level  
Cross Section

72-Hf-179  
-10.39 To 9999. %



14

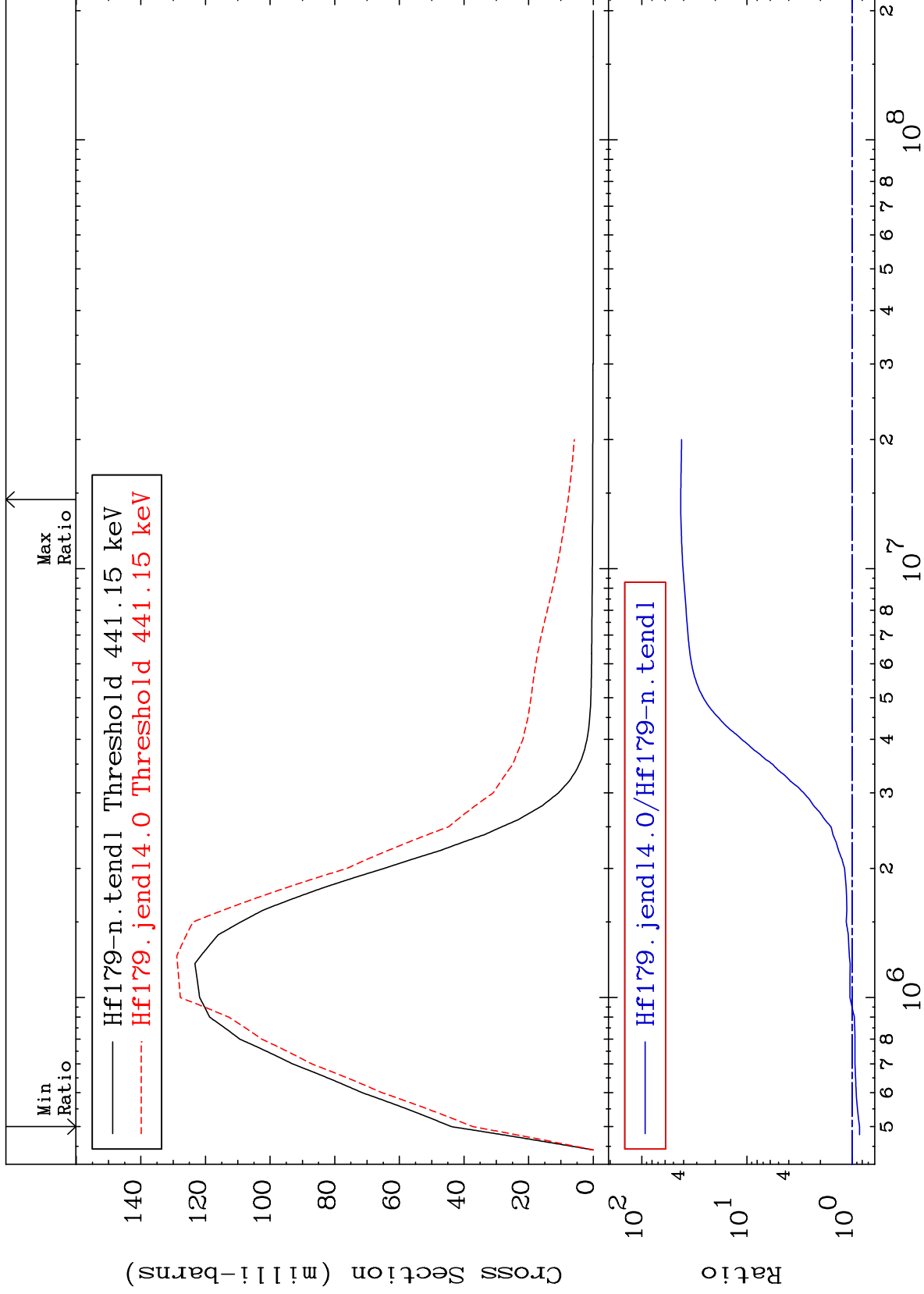
Incident Energy (eV)

72-Hf-179

MAT 7240

438.7 keV (n,n') Level  
Cross Section

72-Hf-179  
-15.14 To 4160. %



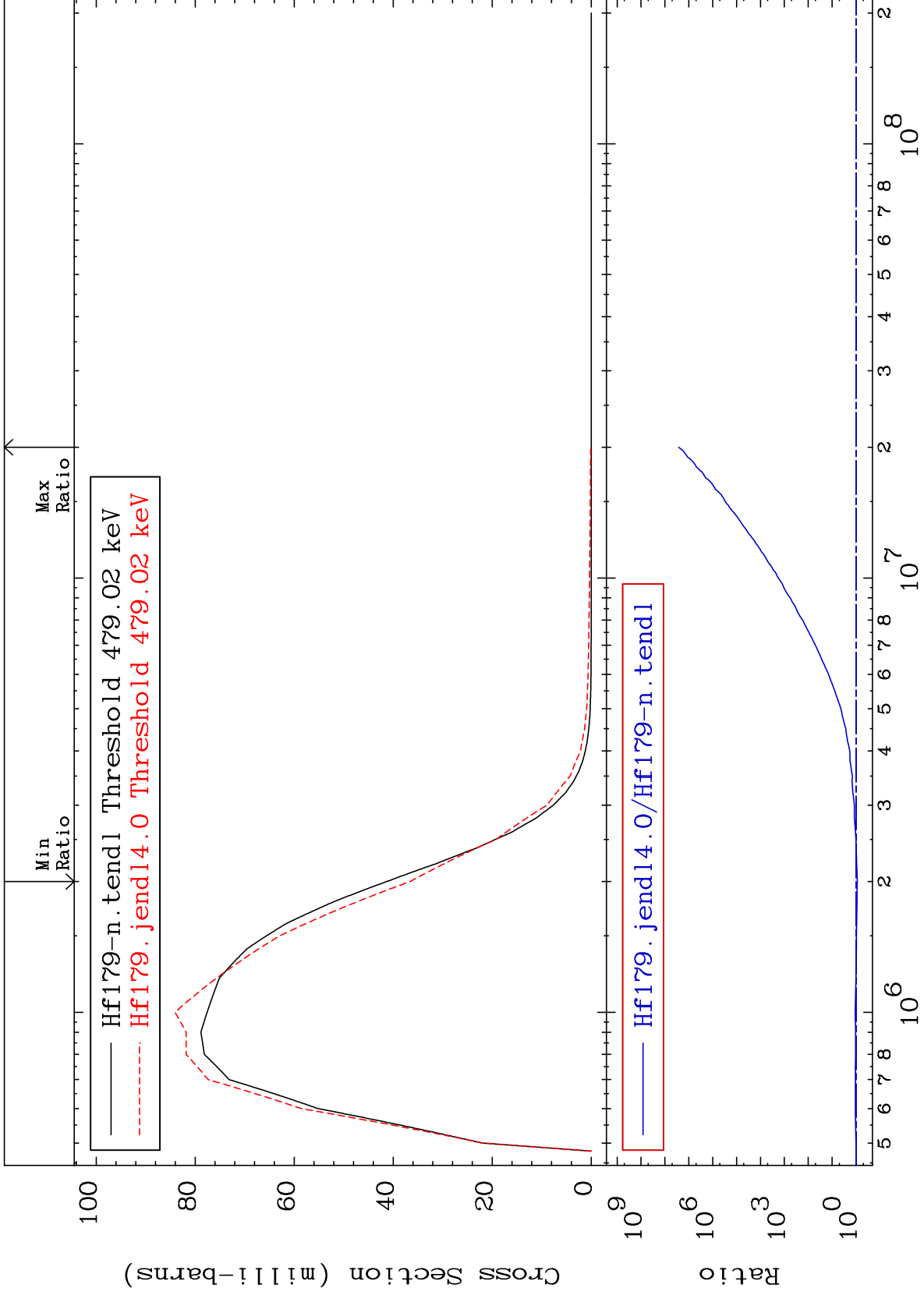
15

72-Hf-179

MAT 7240

476.3 keV (n,n') Level  
Cross Section

72-Hf-179  
-11.39 To 9999. %



16

Incident Energy (eV)

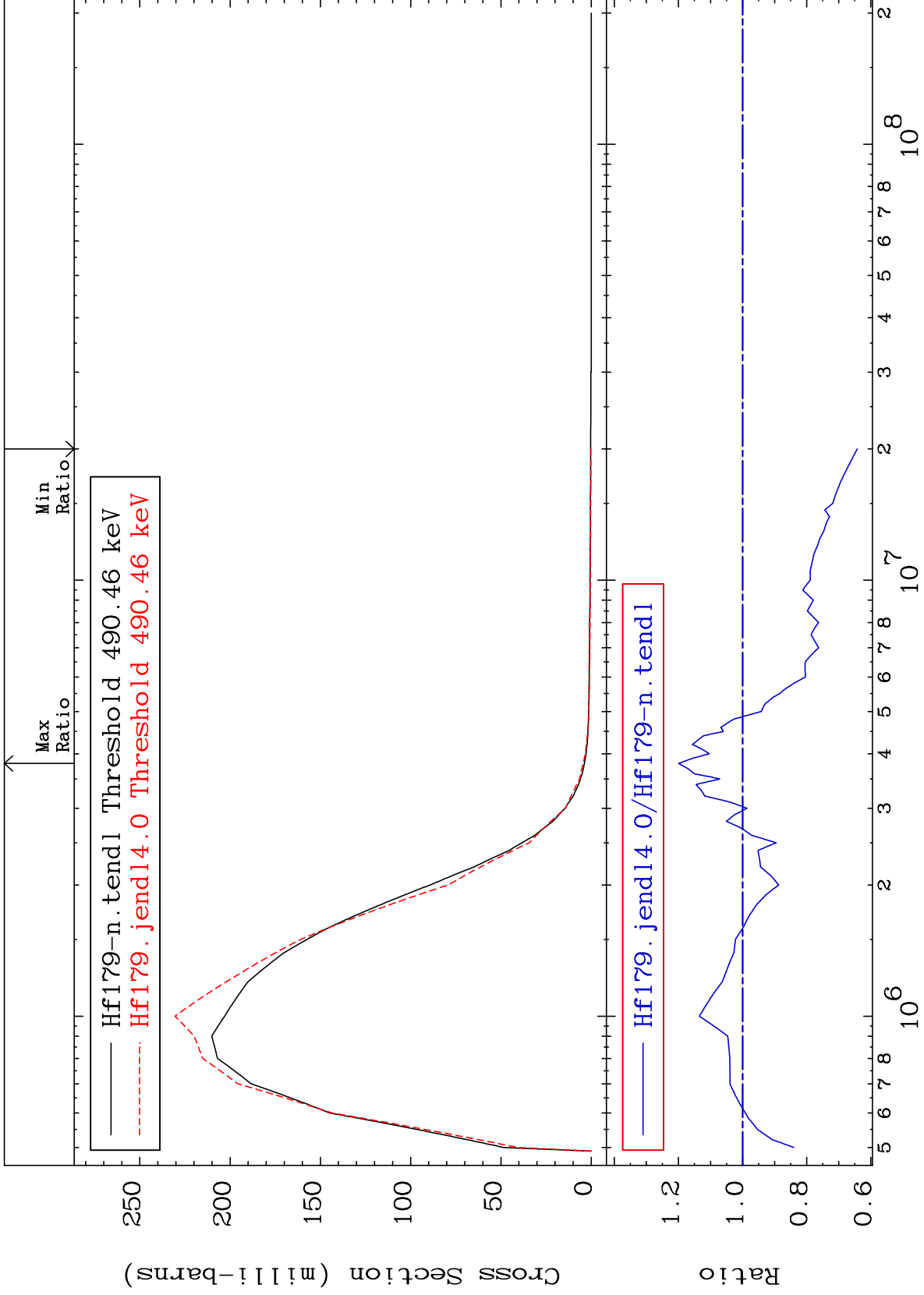
72-Hf-179



MAT 7240

487.7 keV (n,n') Level  
Cross Section

<sup>72</sup>Hf-179  
-35.77 To 19.95 %



17

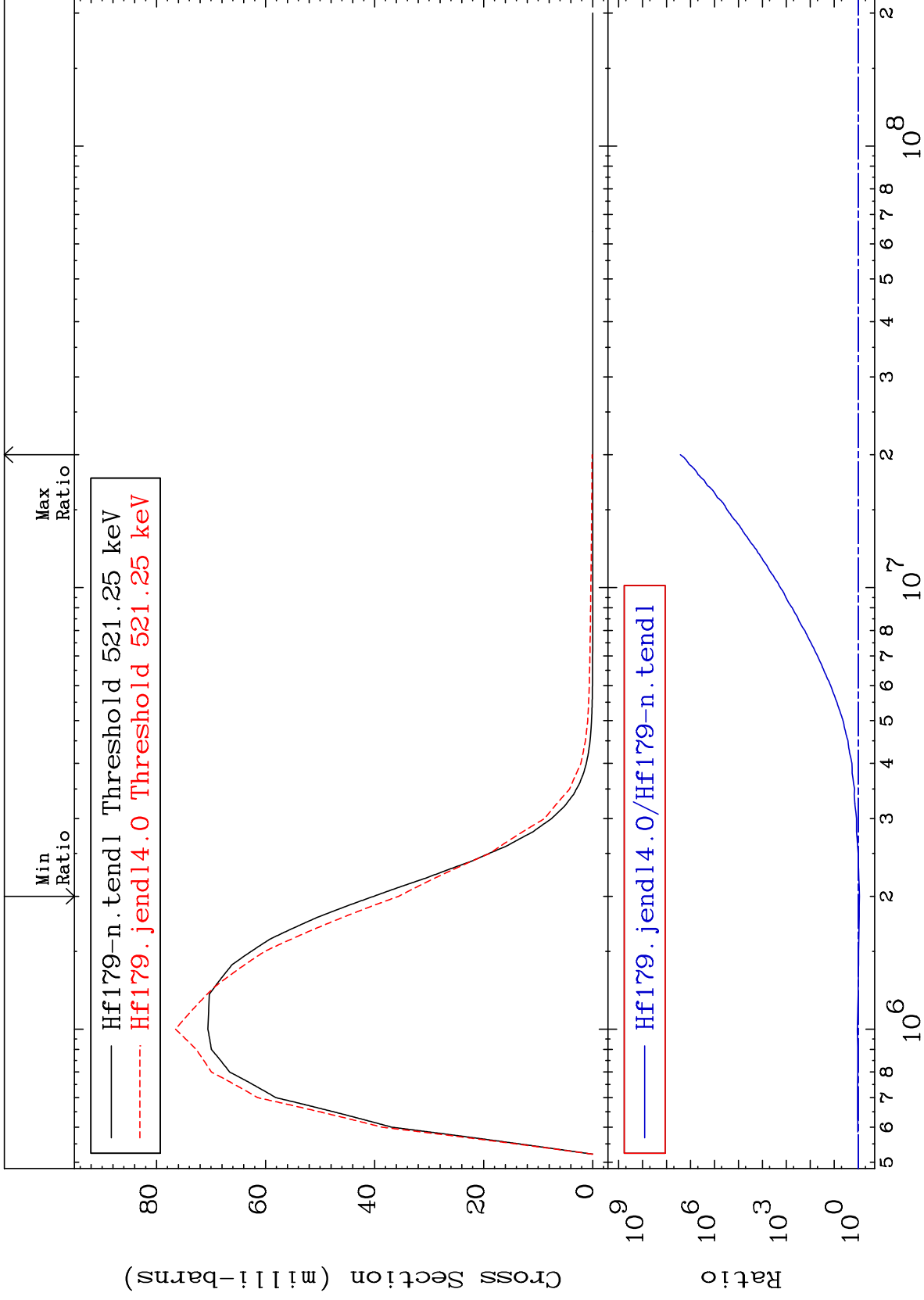
Incident Energy (eV)

<sup>72</sup>Hf-179

MAT 7240

518.3 keV (n,n') Level  
Cross Section

72-Hf-179  
-11.38 To 9999. %



18

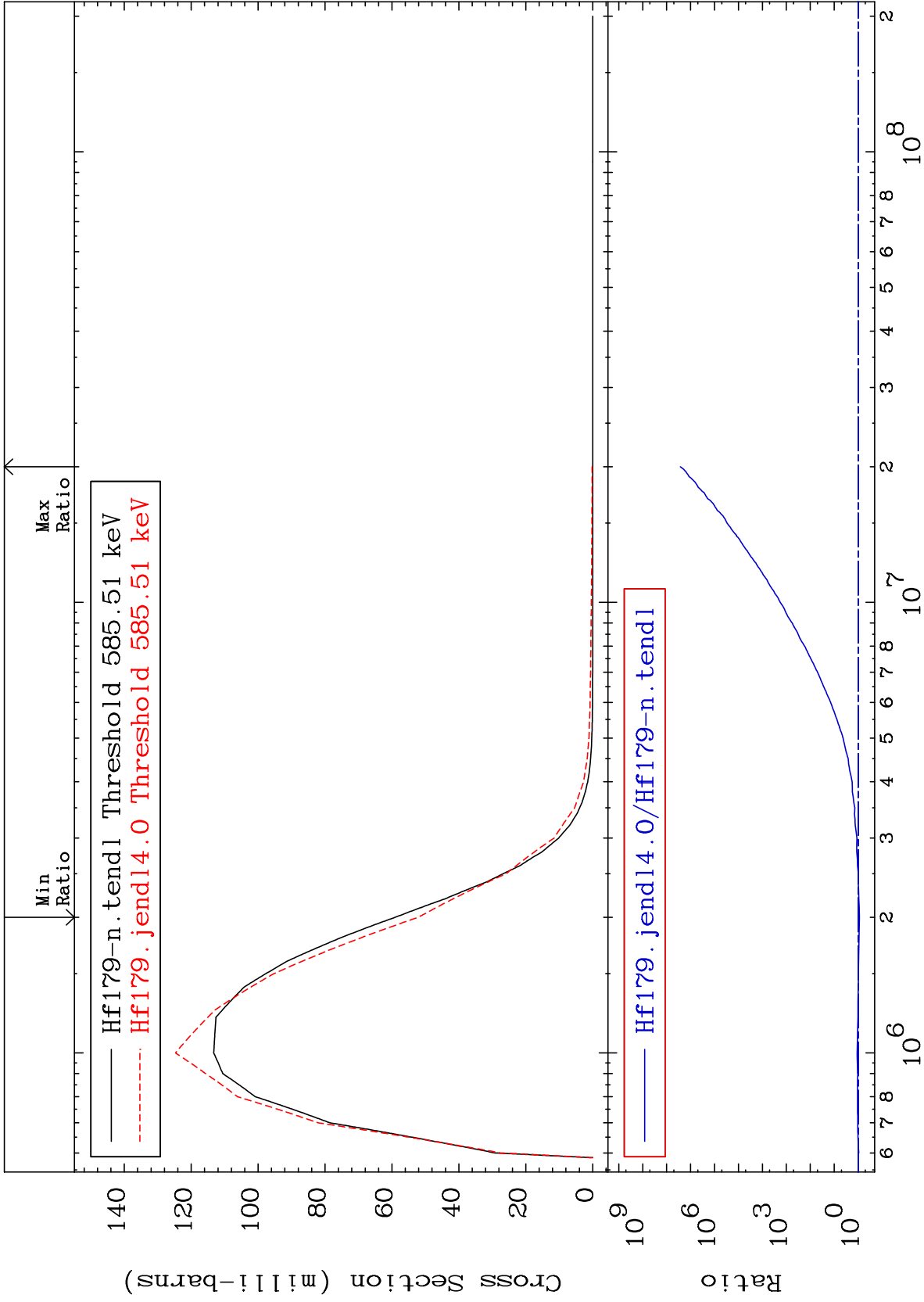
Incident Energy (eV)

72-Hf-179

MAT 7240

582.2 keV (n,n') Level  
Cross Section

72-Hf-179  
-11.72 To 9999. %



19

Incident Energy (eV)

72-Hf-179

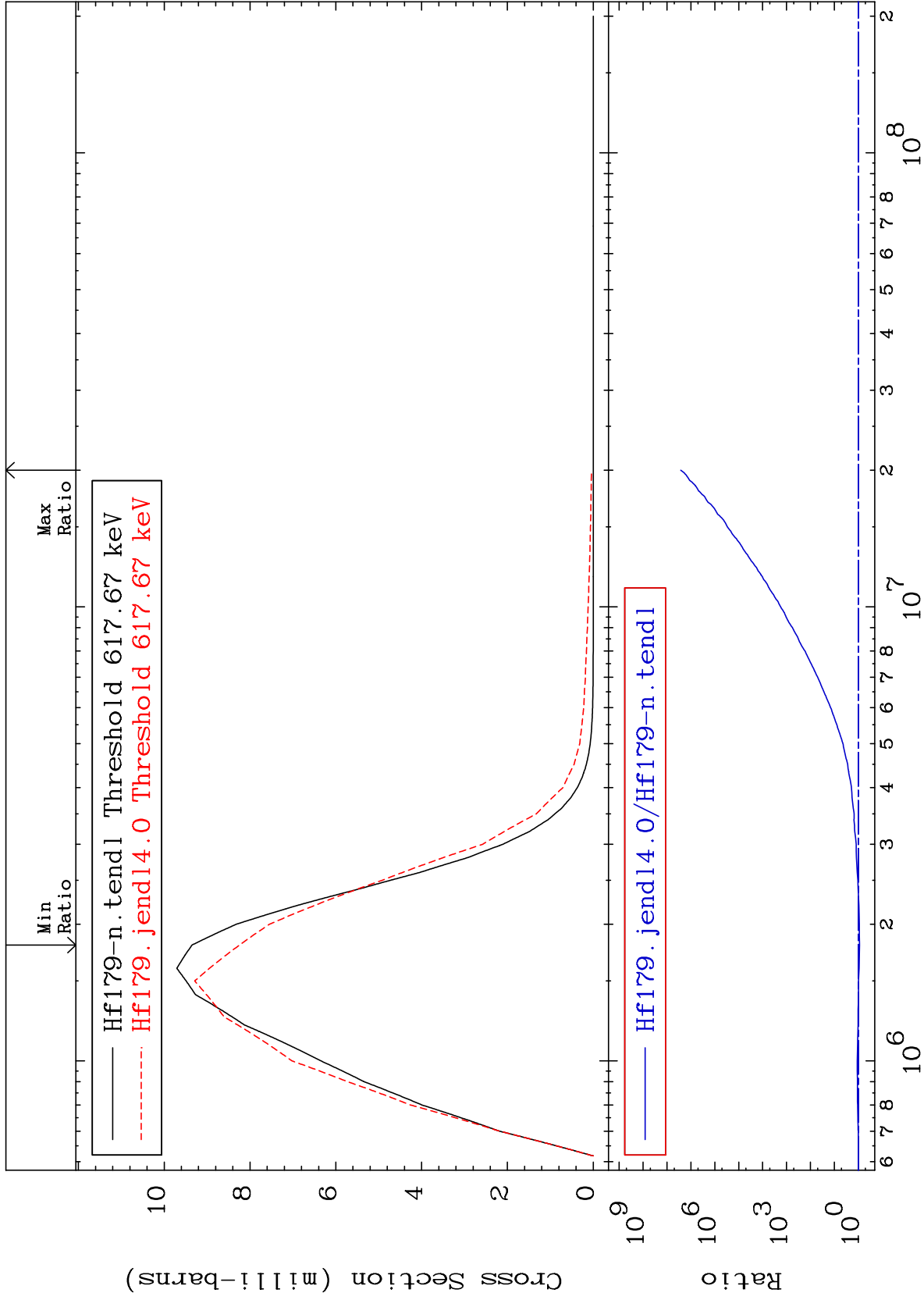
MAT 7240

614.2 keV (n,n') Level

72-Hf-179

-11.84 To 9999. %

Cross Section



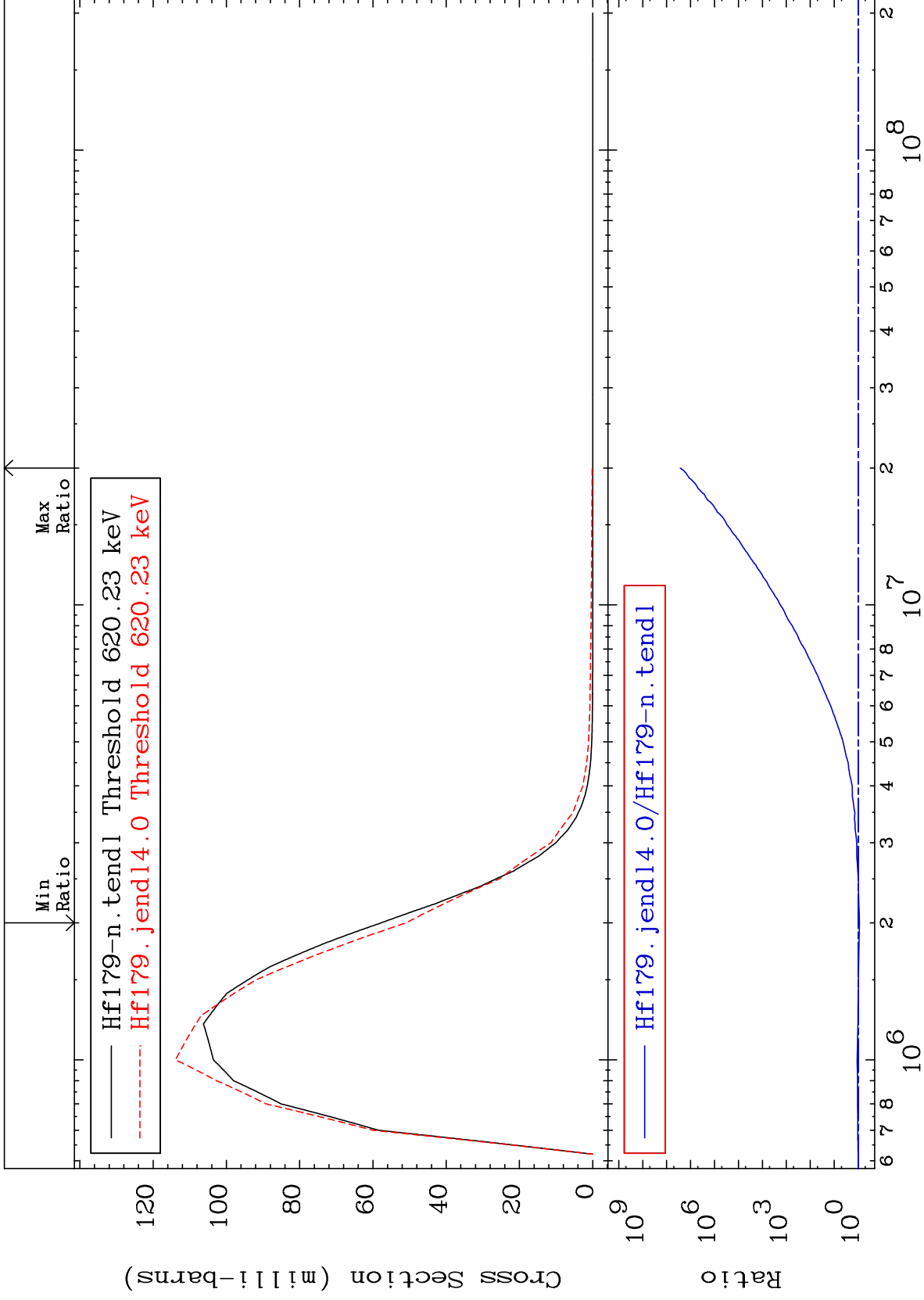
20

72-Hf-179

MAT 7240

616.8 keV (n,n') Level  
Cross Section

<sup>72</sup>Hf-179  
-11.75 To 9999. %



21

Incident Energy (eV)

<sup>72</sup>Hf-179

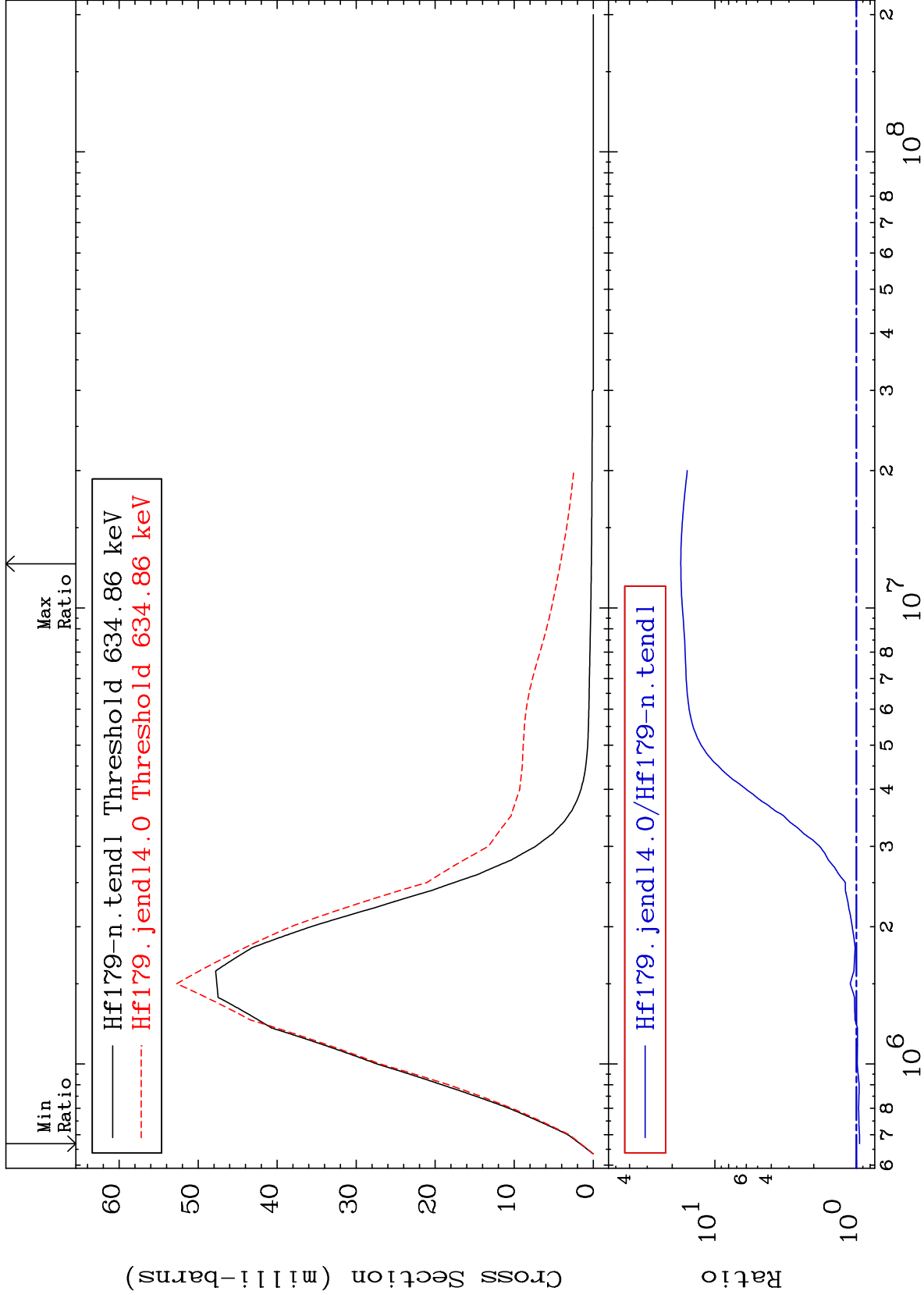
MAT 7240

631.3 keV (n,n') Level

72-Hf-179

-4.881 To 1640. %

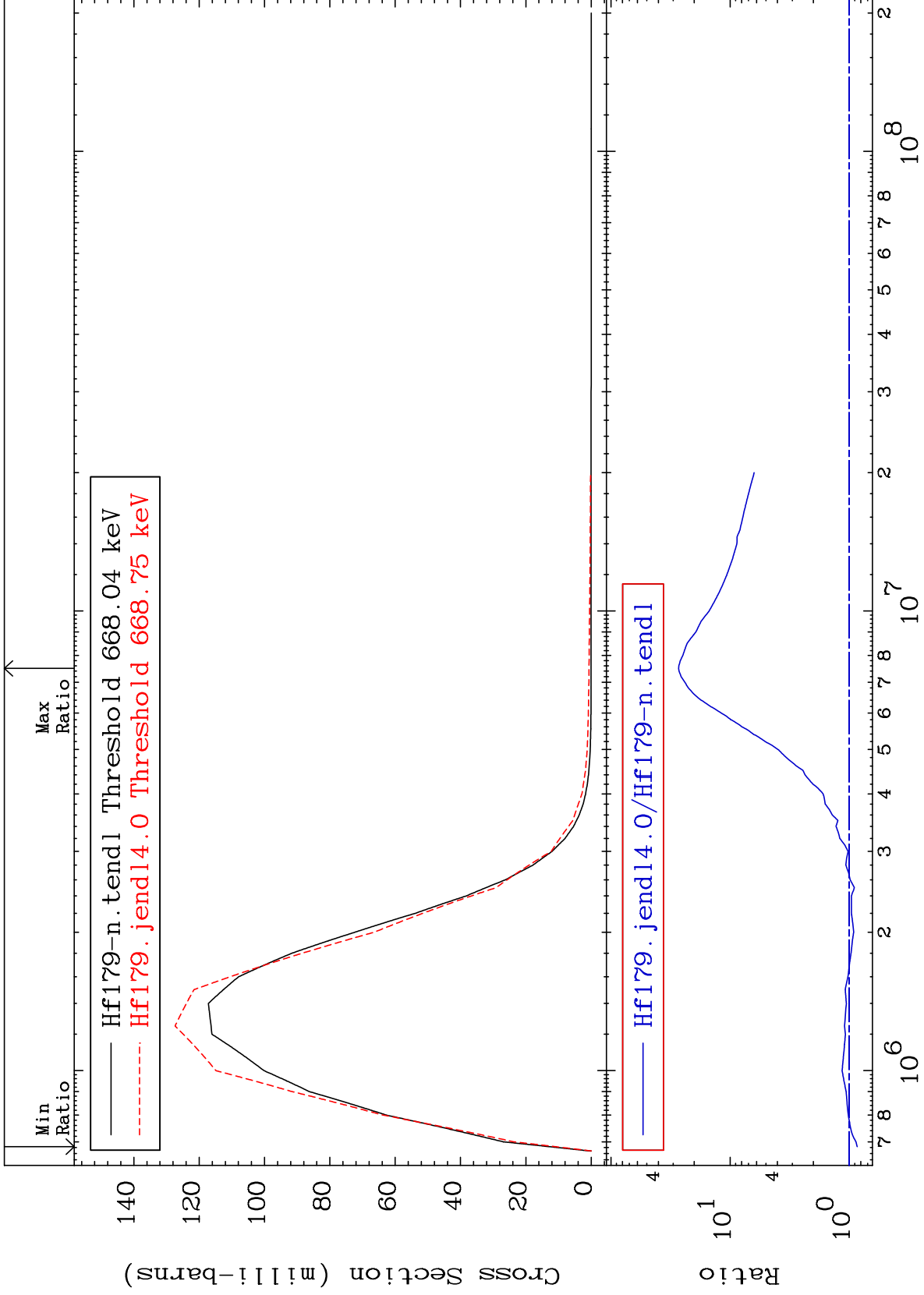
Cross Section



MAT 7240

664.3 keV (n,n') Level  
Cross Section

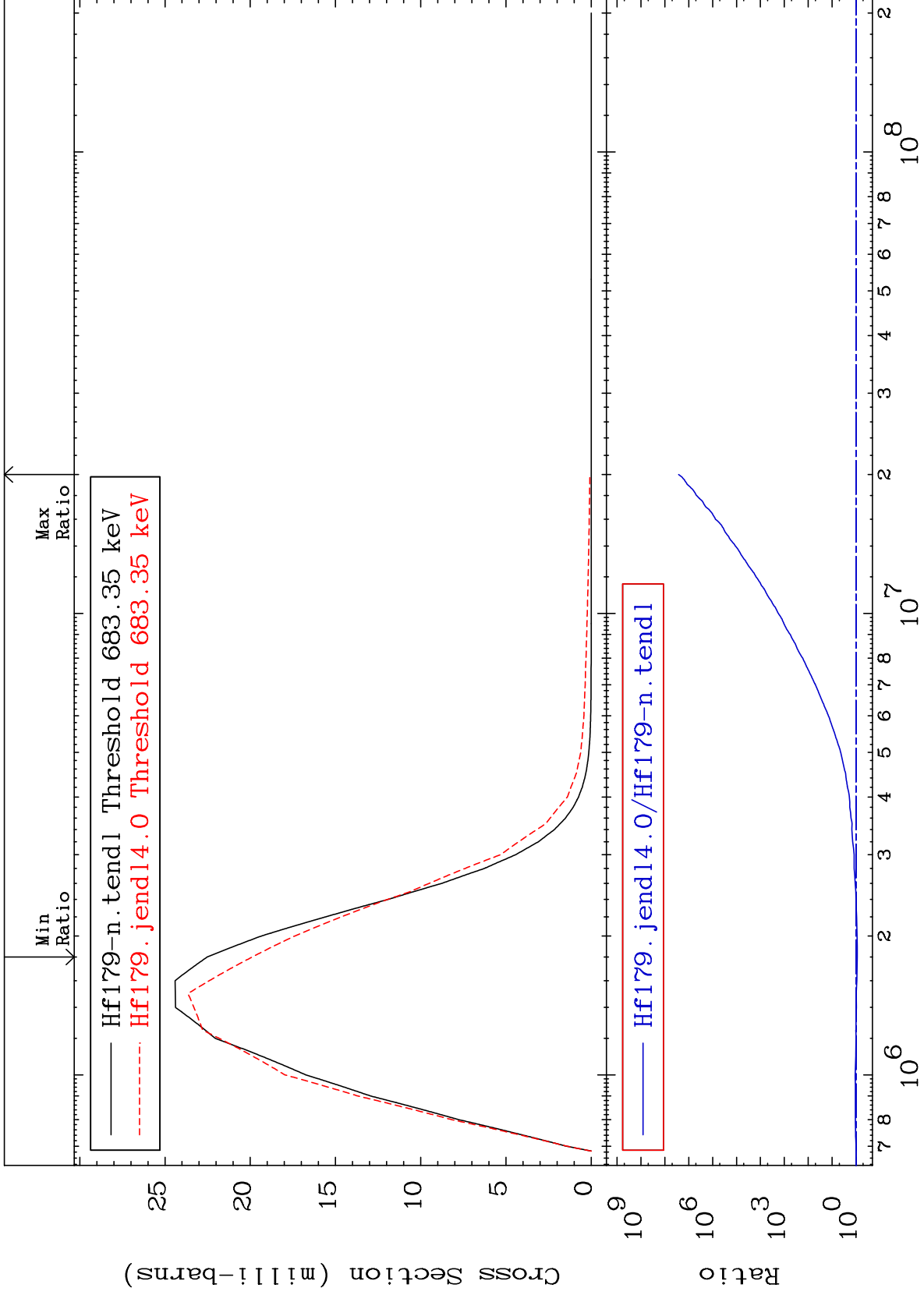
72-Hf-179  
-14.38 To 2602. %



MAT 7240

679.5 keV (n,n') Level  
Cross Section

72-Hf-179  
-11.73 To 9999. %

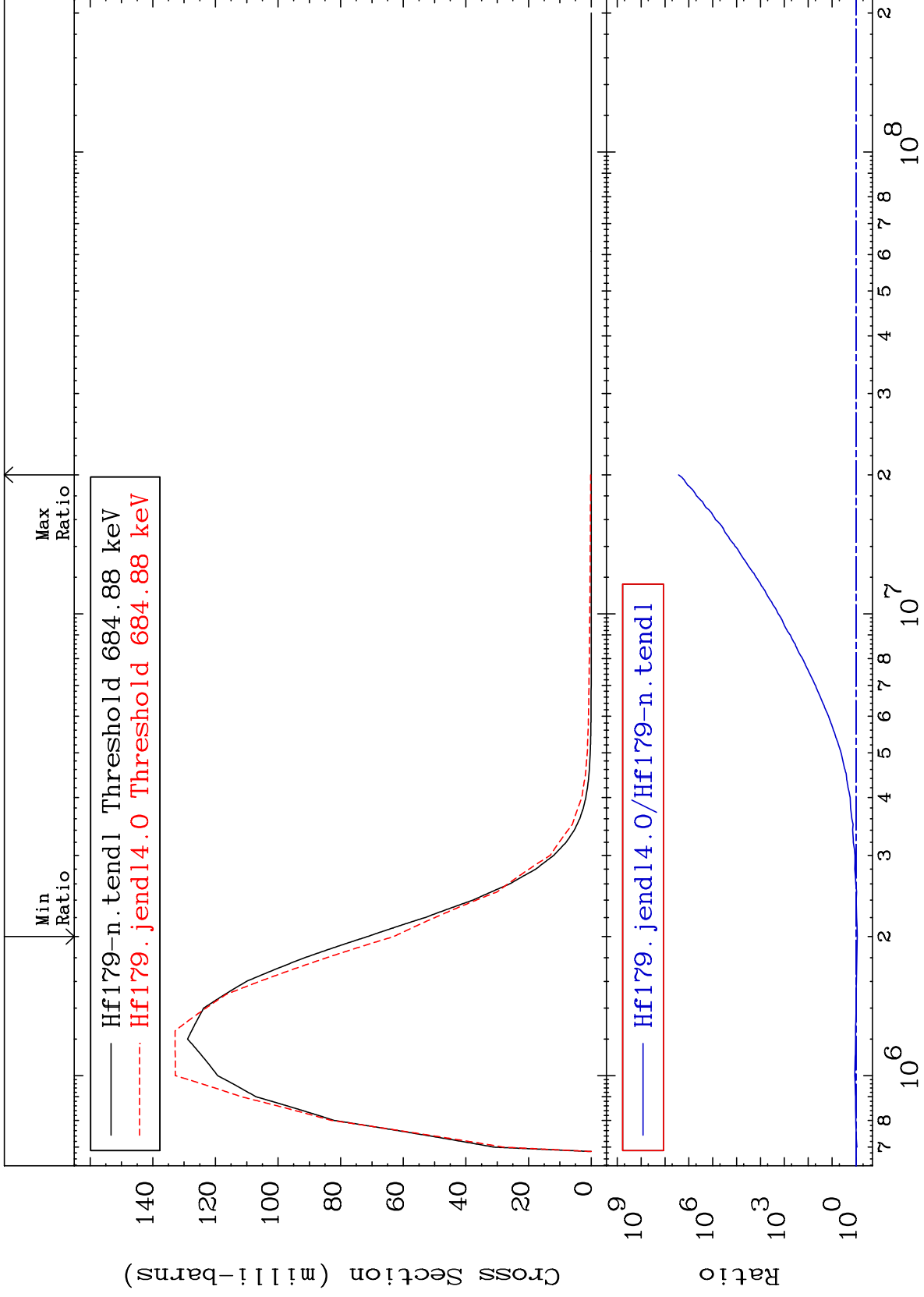




MAT 7240

681.0 keV (n,n') Level  
Cross Section

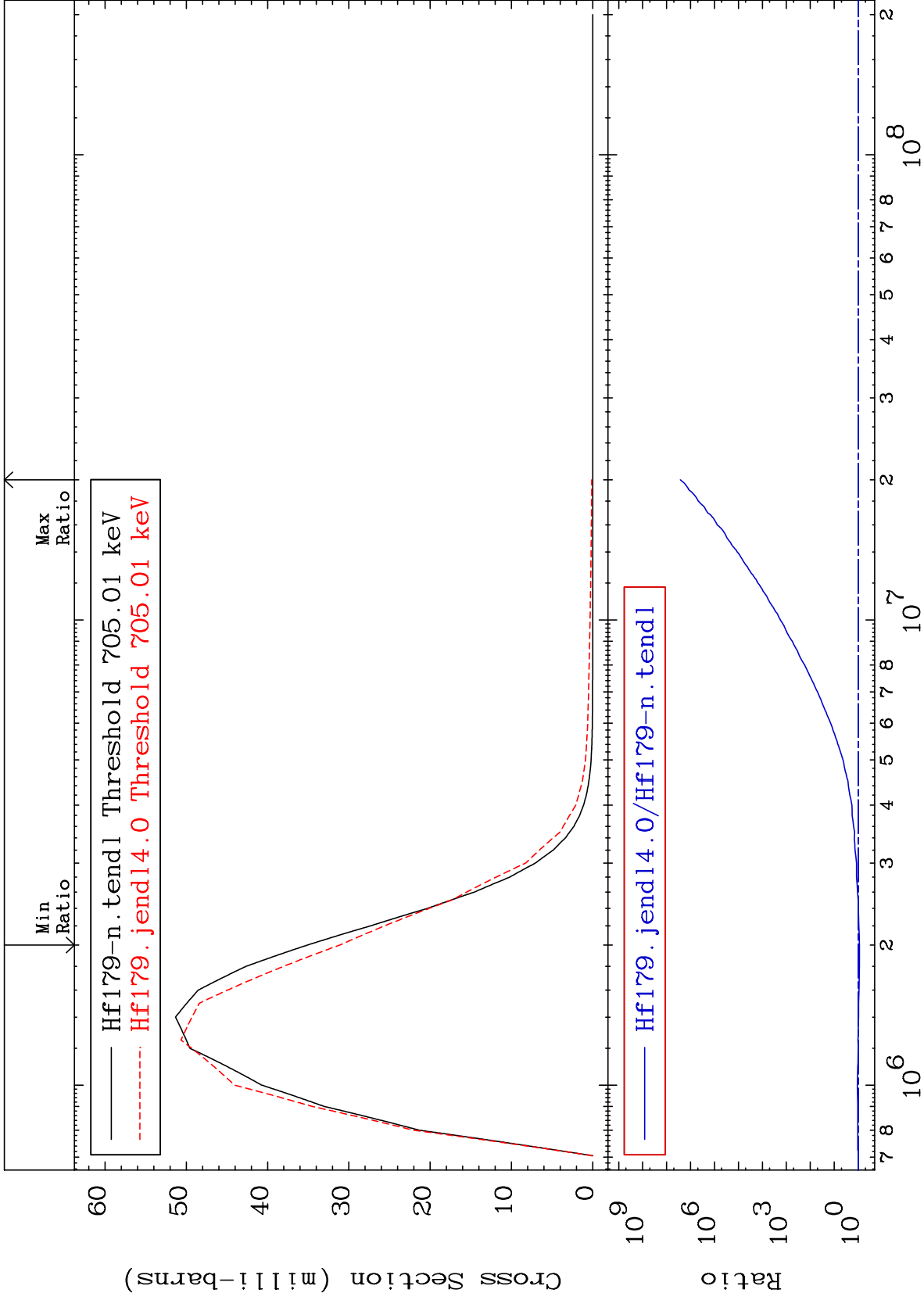
72-Hf-179  
-11.72 To 9999. %



MAT 7240

701.1 keV (n,n') Level  
Cross Section

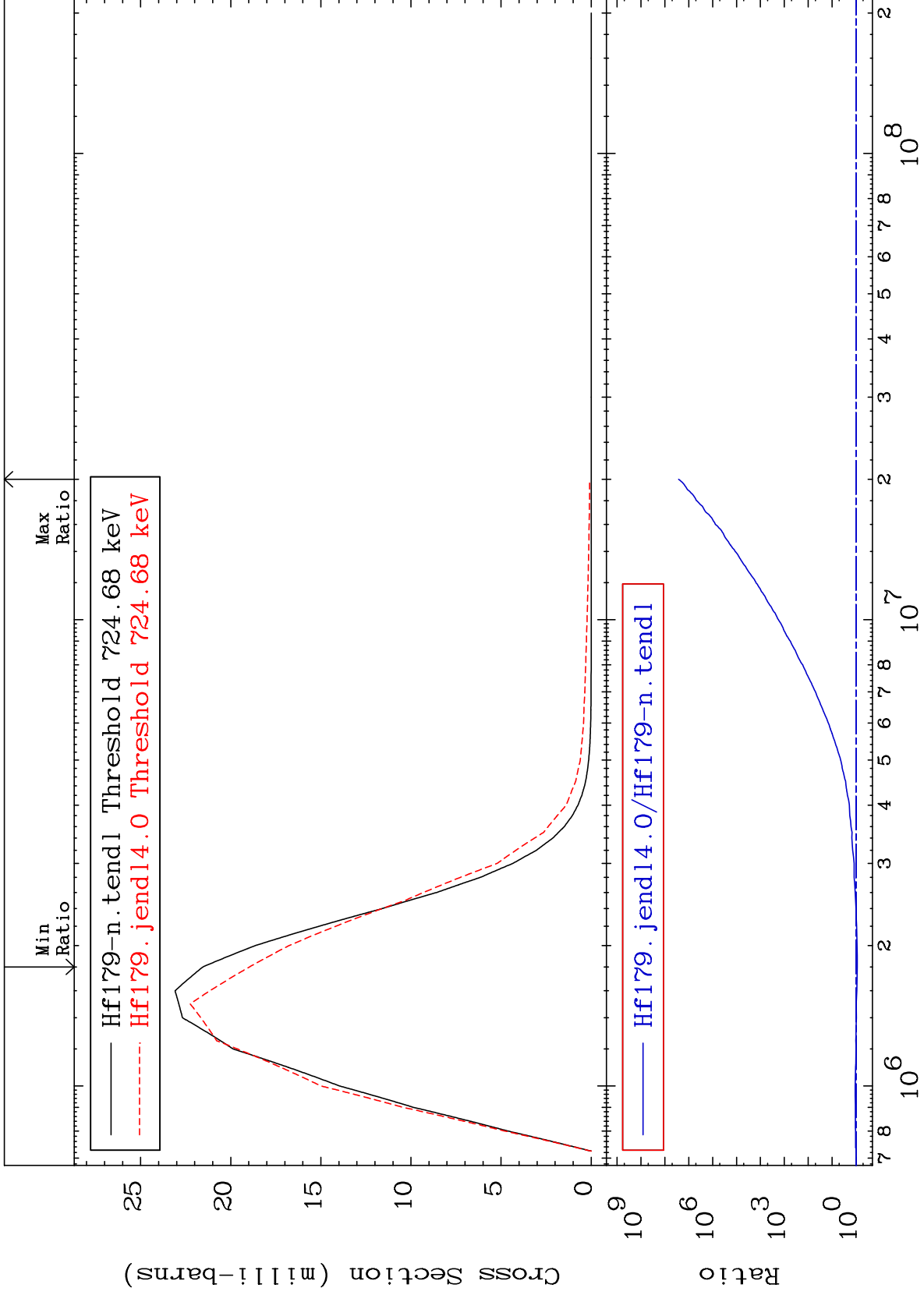
72-Hf-179  
-11.36 To 9999. %



MAT 7240

720.6 keV (n,n') Level  
Cross Section

72-Hf-179  
-12.02 To 9999. %



27

Incident Energy (eV)

72-Hf-179

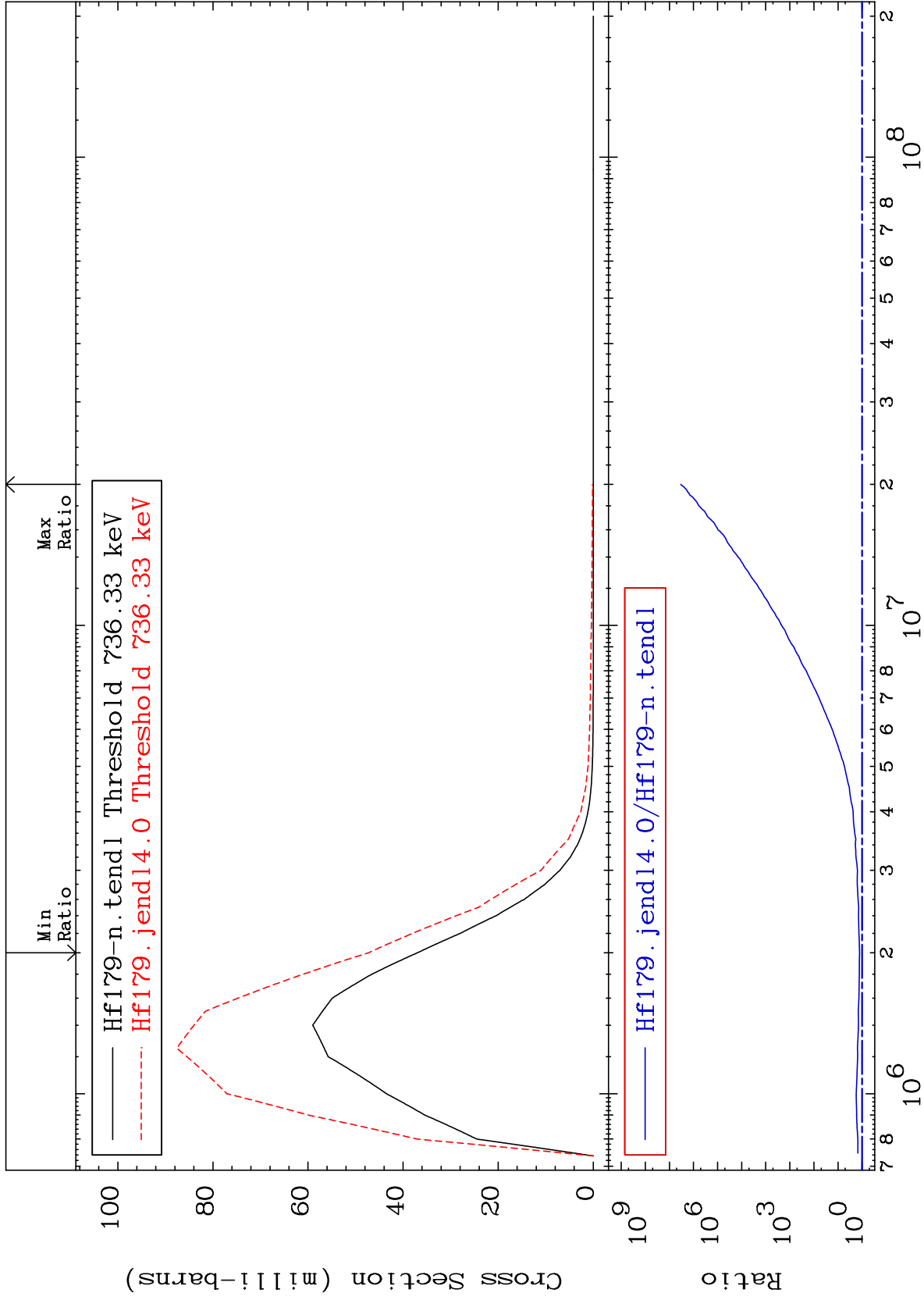
MAT 7240

732.2 keV (n,n') Level

72-Hf-179

Cross Section

27.80 To 9999. %



28

Incident Energy (eV)

72-Hf-179

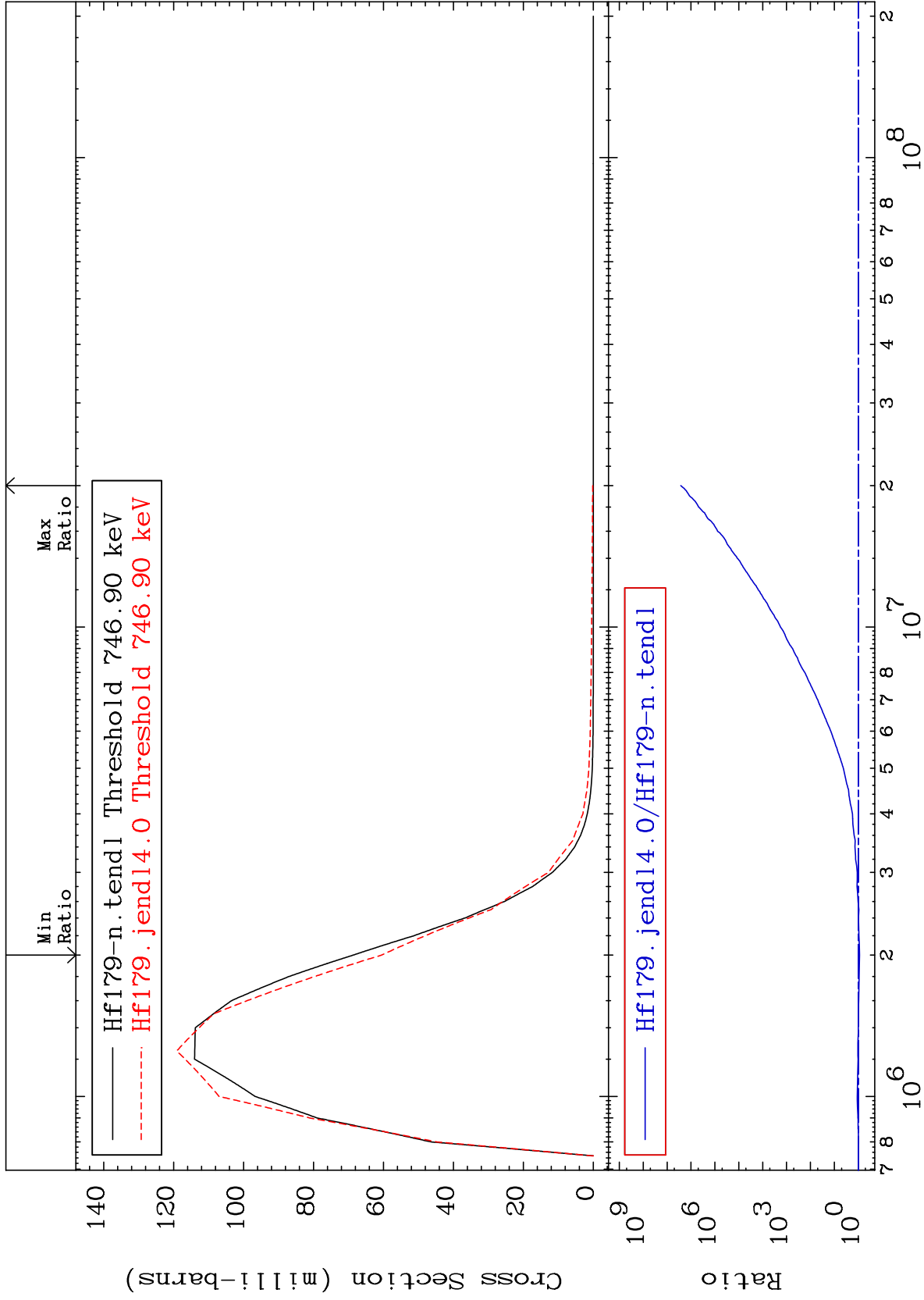
MAT 7240

742.7 keV (n,n') Level

72-Hf-179

-11.81 To 9999. %

Cross Section



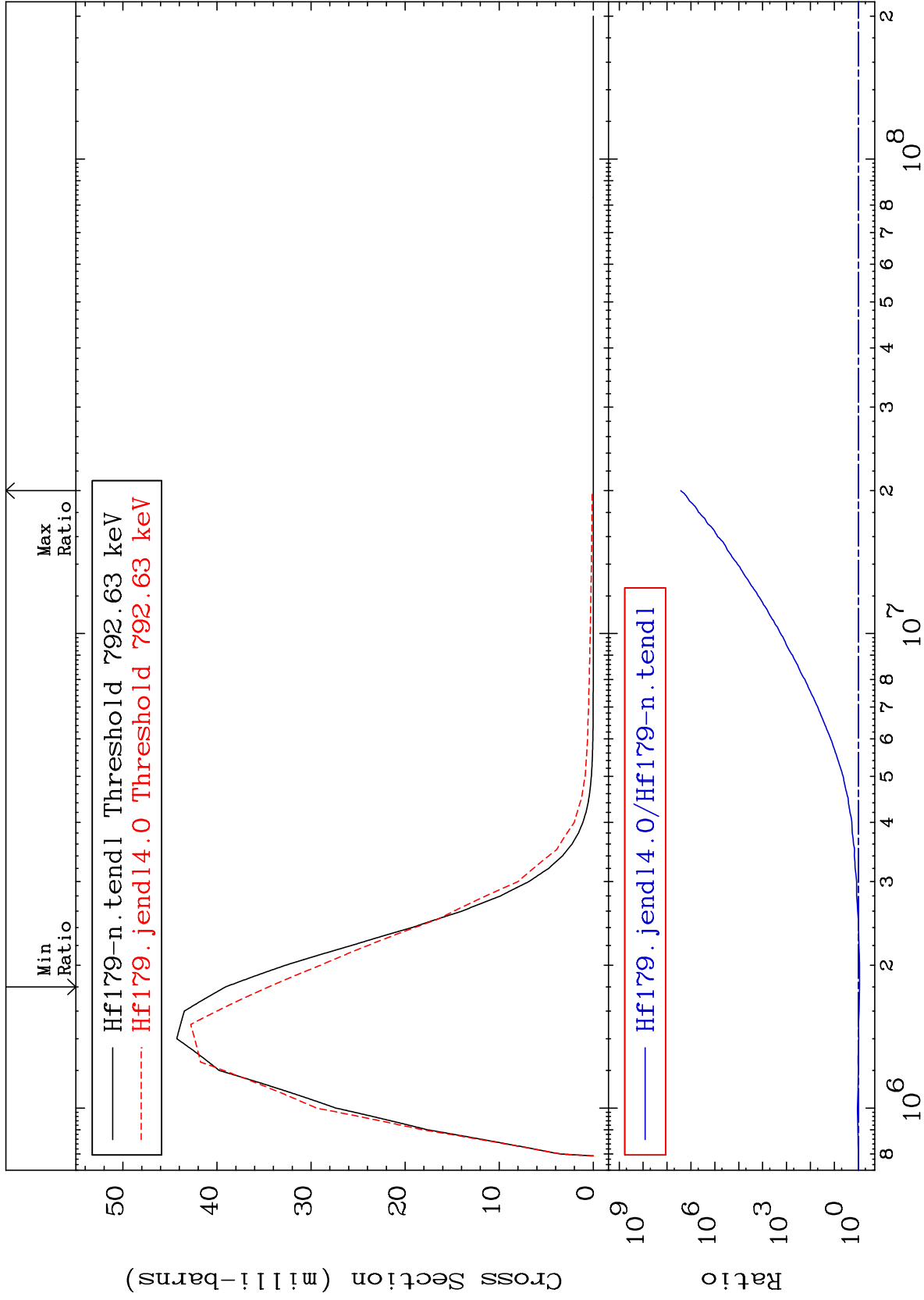
MAT 7240

788.2 keV (n,n') Level

72-Hf-179

-11.73 To 9999. %

Cross Section



30

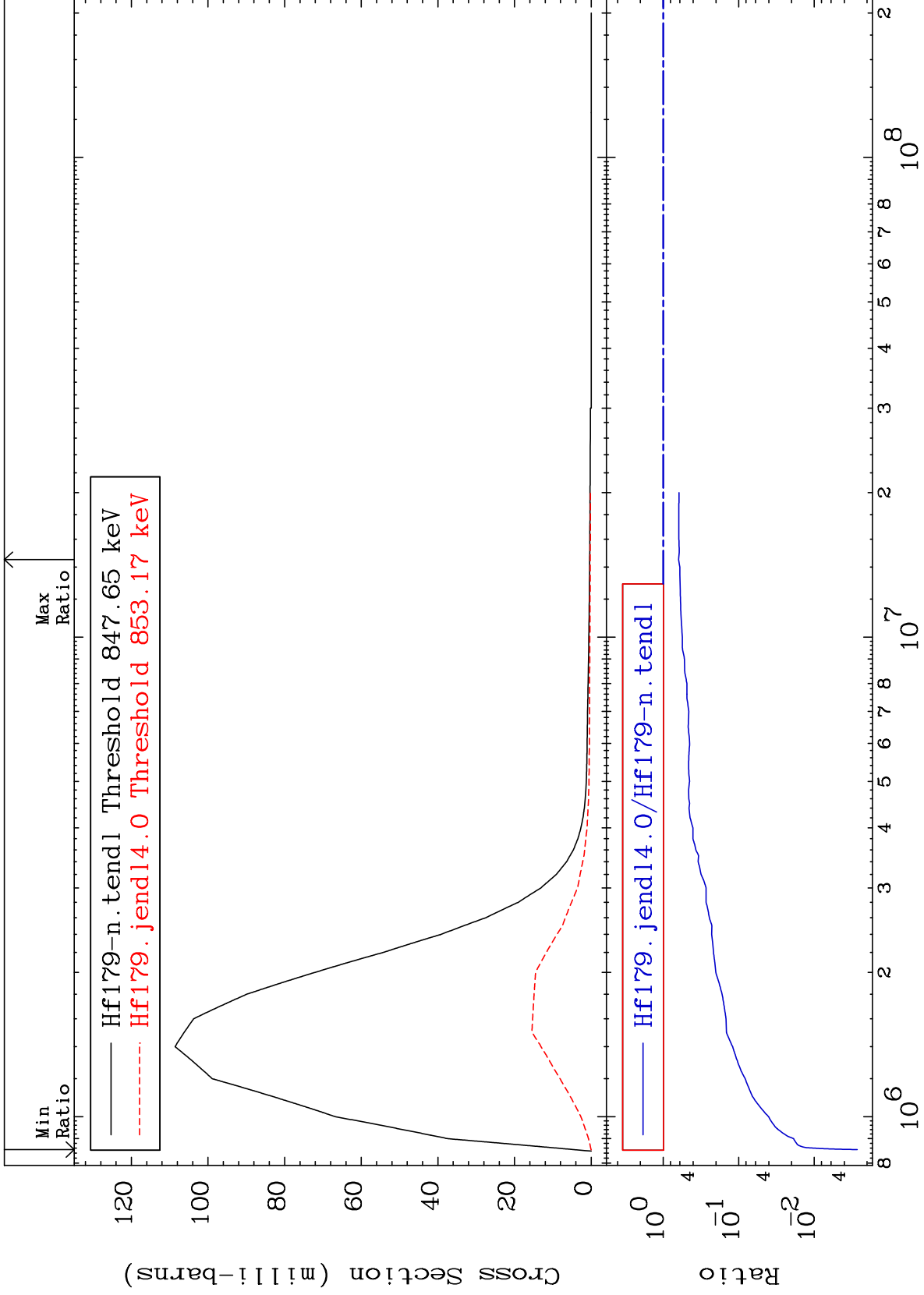
Incident Energy (eV)

72-Hf-179

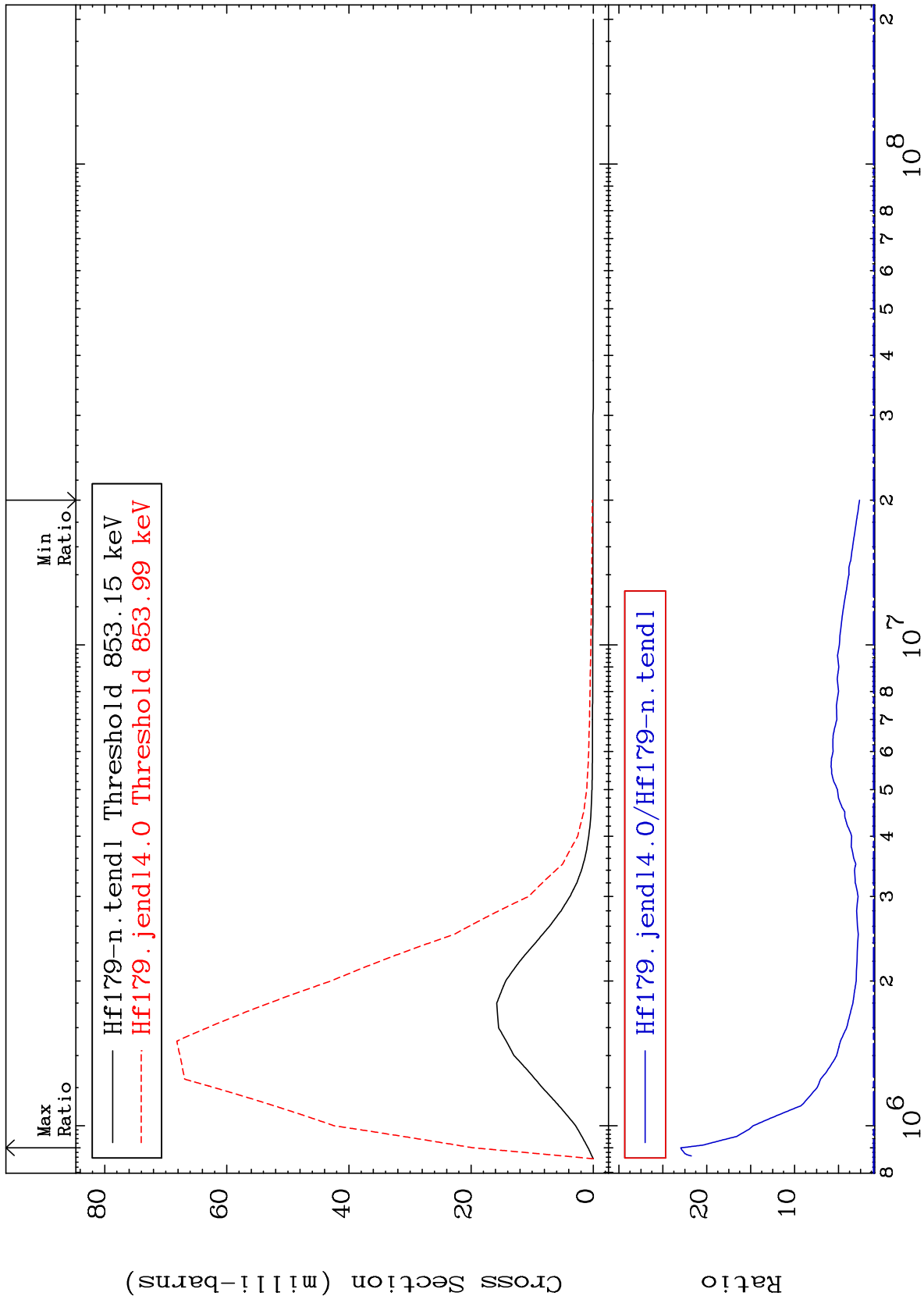
MAT 7240

842.9 keV (n,n') Level  
Cross Section

<sup>72</sup>Hf-179  
-99.73 To -37.61%



MAT 7240 848.4 keV (n,n') Level 72-Hf-179  
 Cross Section 160.6 To 2196. %



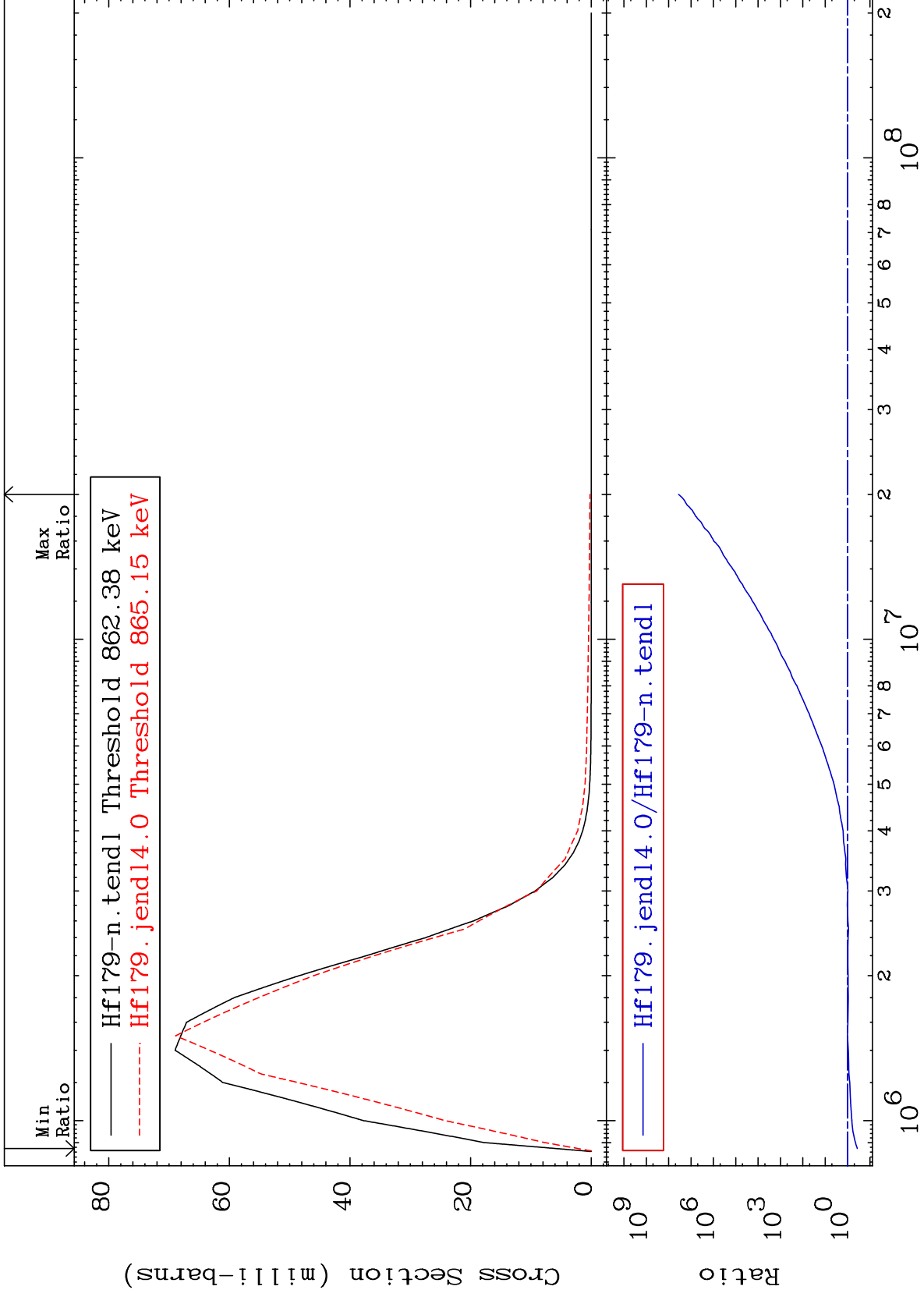
32 72-Hf-179



MAT 7240

857.6 keV (n,n') Level  
Cross Section

72-Hf-179  
-63.24 To 9999. %



33

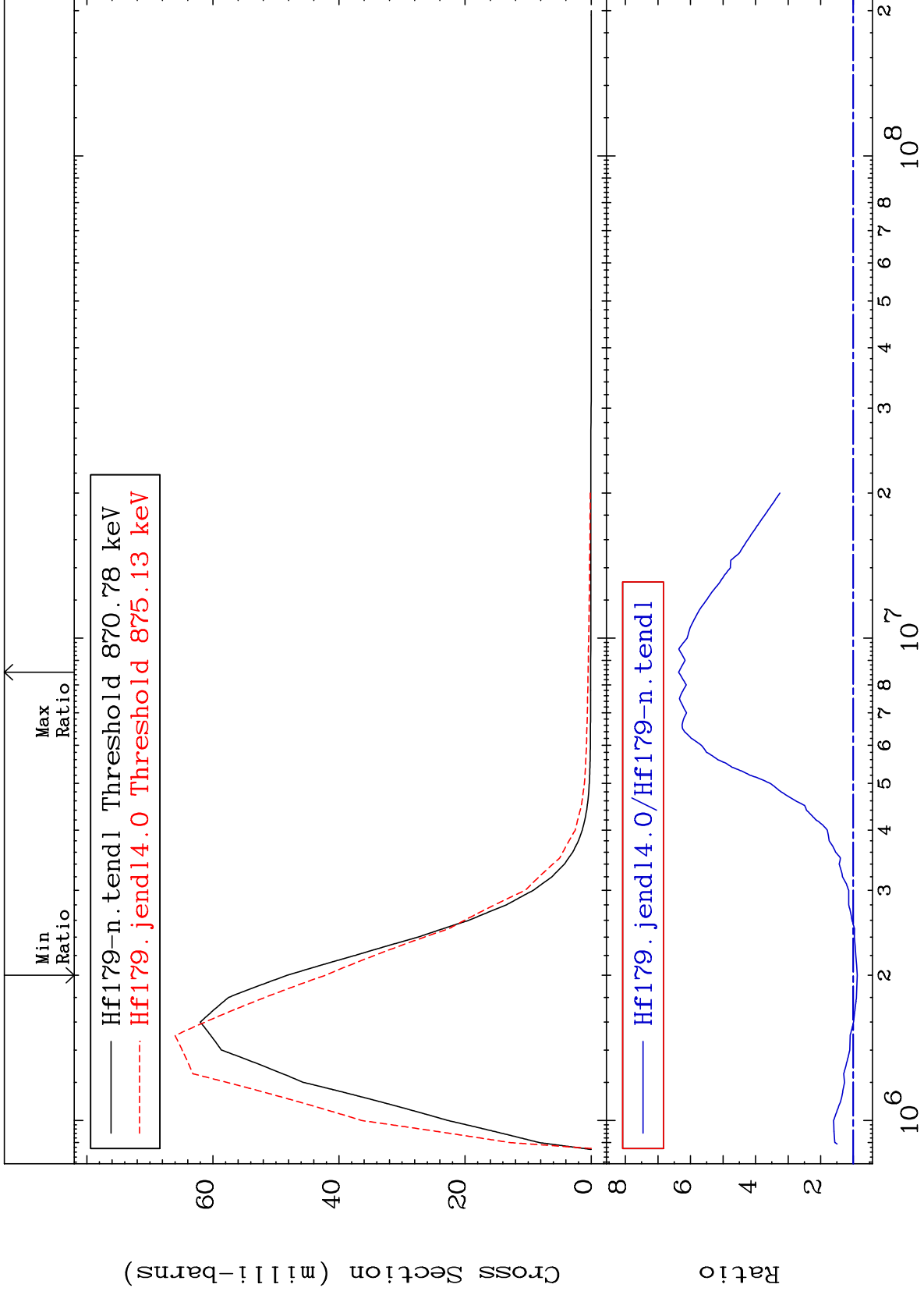
Incident Energy (eV)

72-Hf-179

MAT 7240

865.9 keV (n,n') Level  
Cross Section

72-Hf-179  
-12.47 To 536.3 %



34

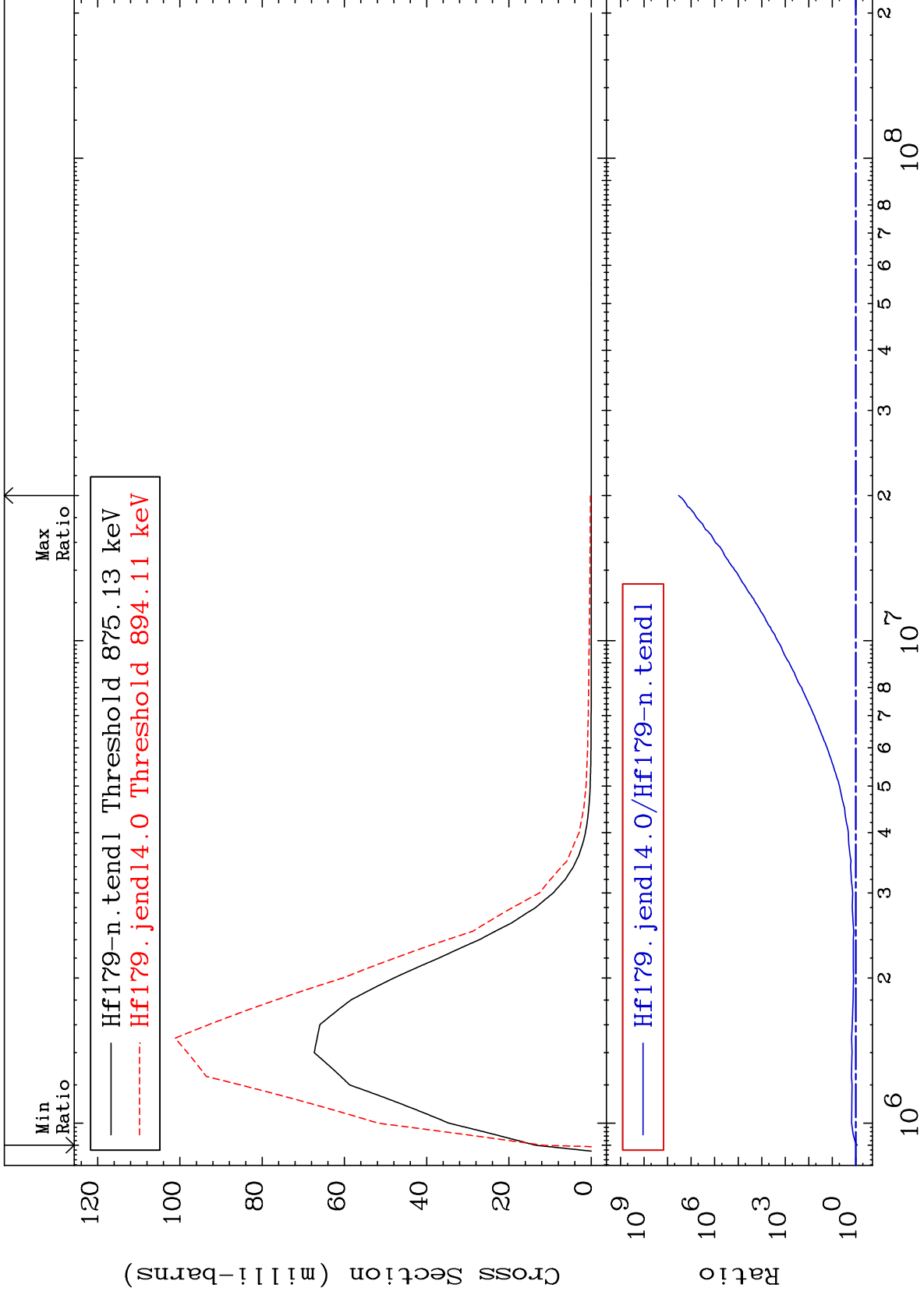
Incident Energy (eV)

72-Hf-179

MAT 7240

870.2 keV (n,n') Level  
Cross Section

72-Hf-179  
-12.88 To 9999. %



35

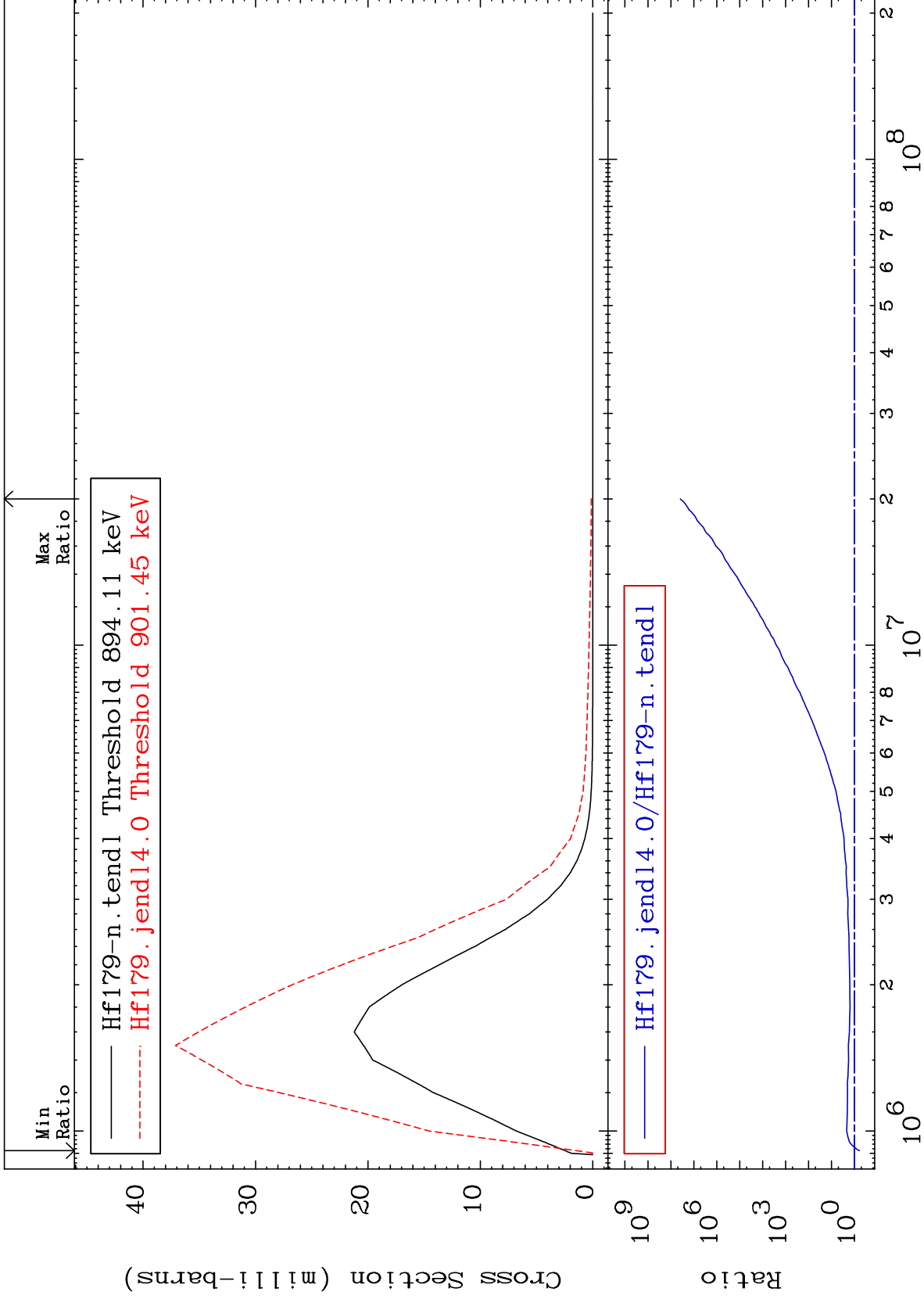
Incident Energy (eV)

72-Hf-179

MAT 7240

889.1 keV (n,n') Level  
Cross Section

72-Hf-179  
-39.81 To 9999. %



36

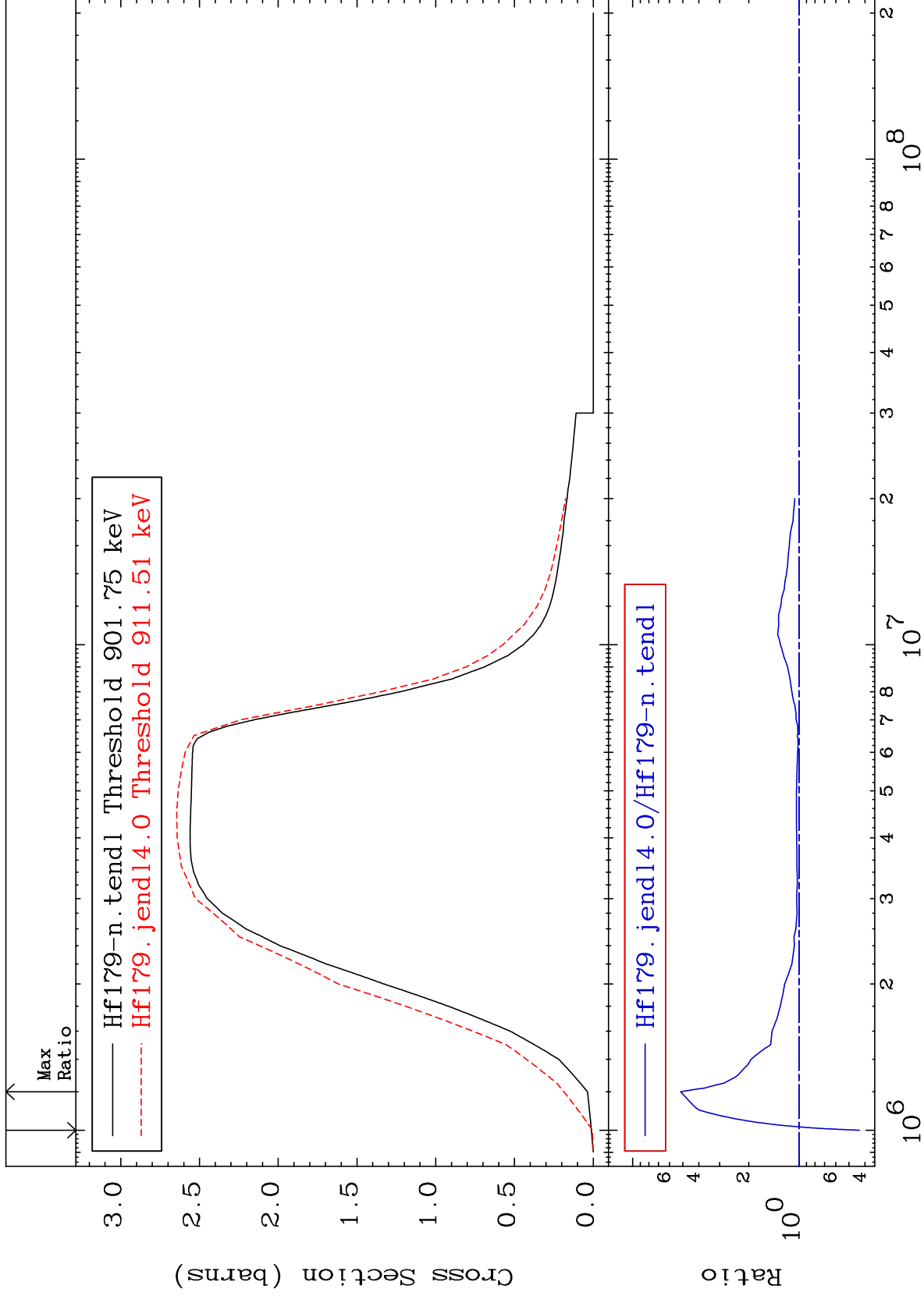
Incident Energy (eV)

72-Hf-179

MAT 7240

(n, n') Continuum  
Cross Section

<sup>72</sup>Hf-179  
-56.85 To 413.7 %



37

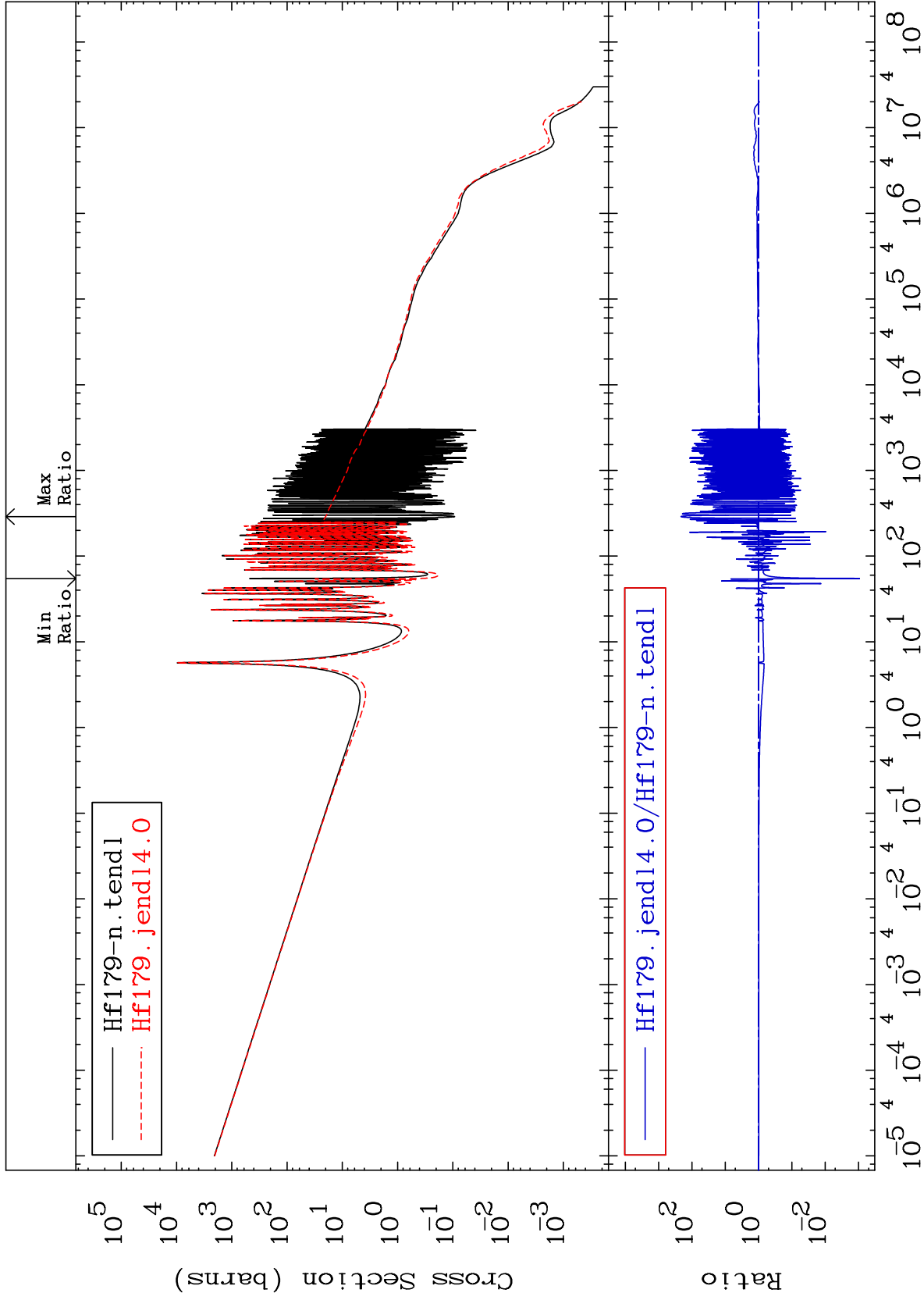
Incident Energy (eV)

<sup>72</sup>Hf-179

MAT 7240

(n,  $\gamma$ )  
Cross Section

72-Hf-179  
-99.91 To 9999. %

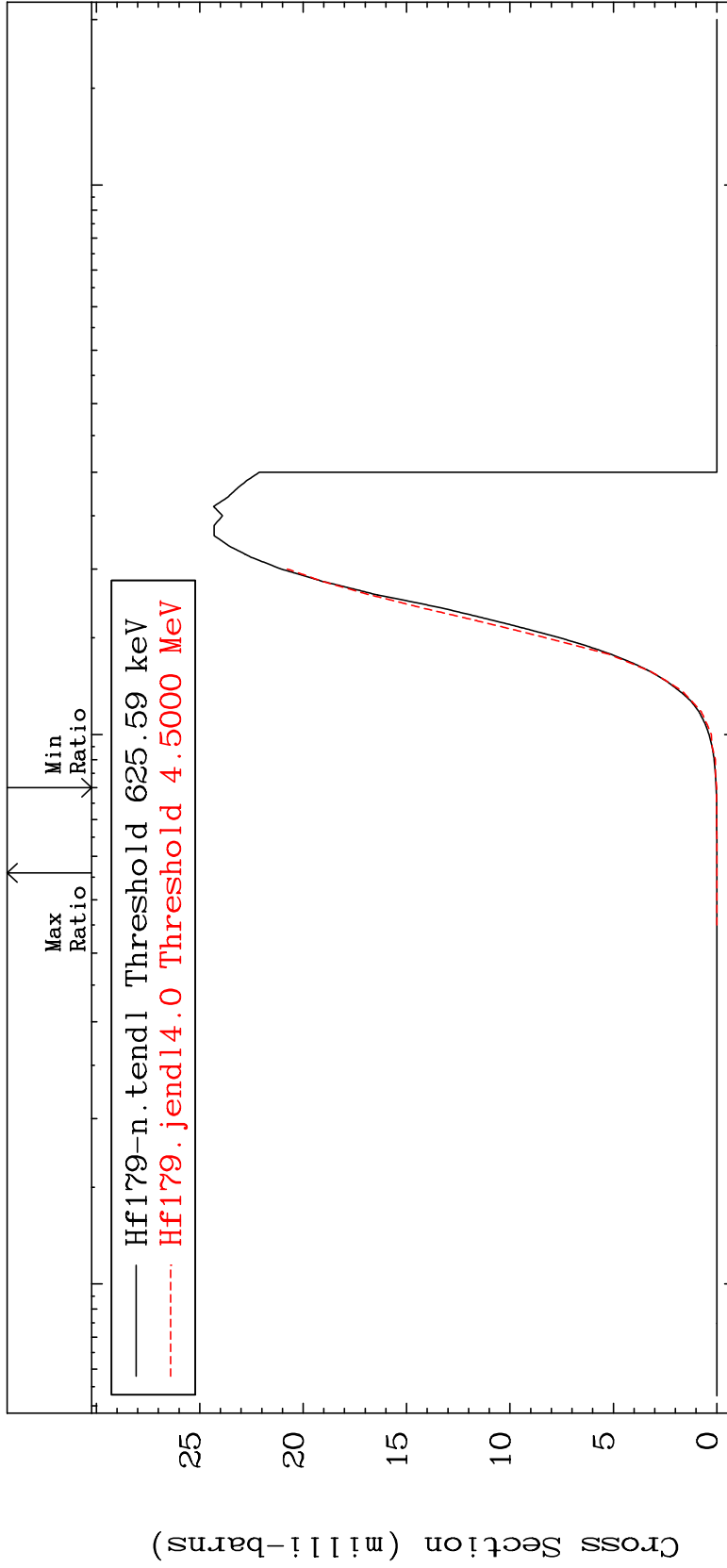


MAT 7240

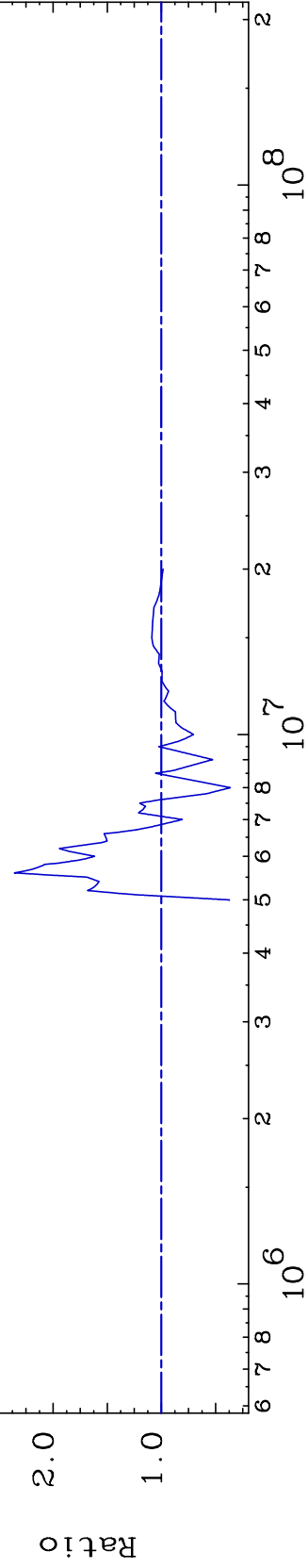
<sup>72</sup>Hf-179

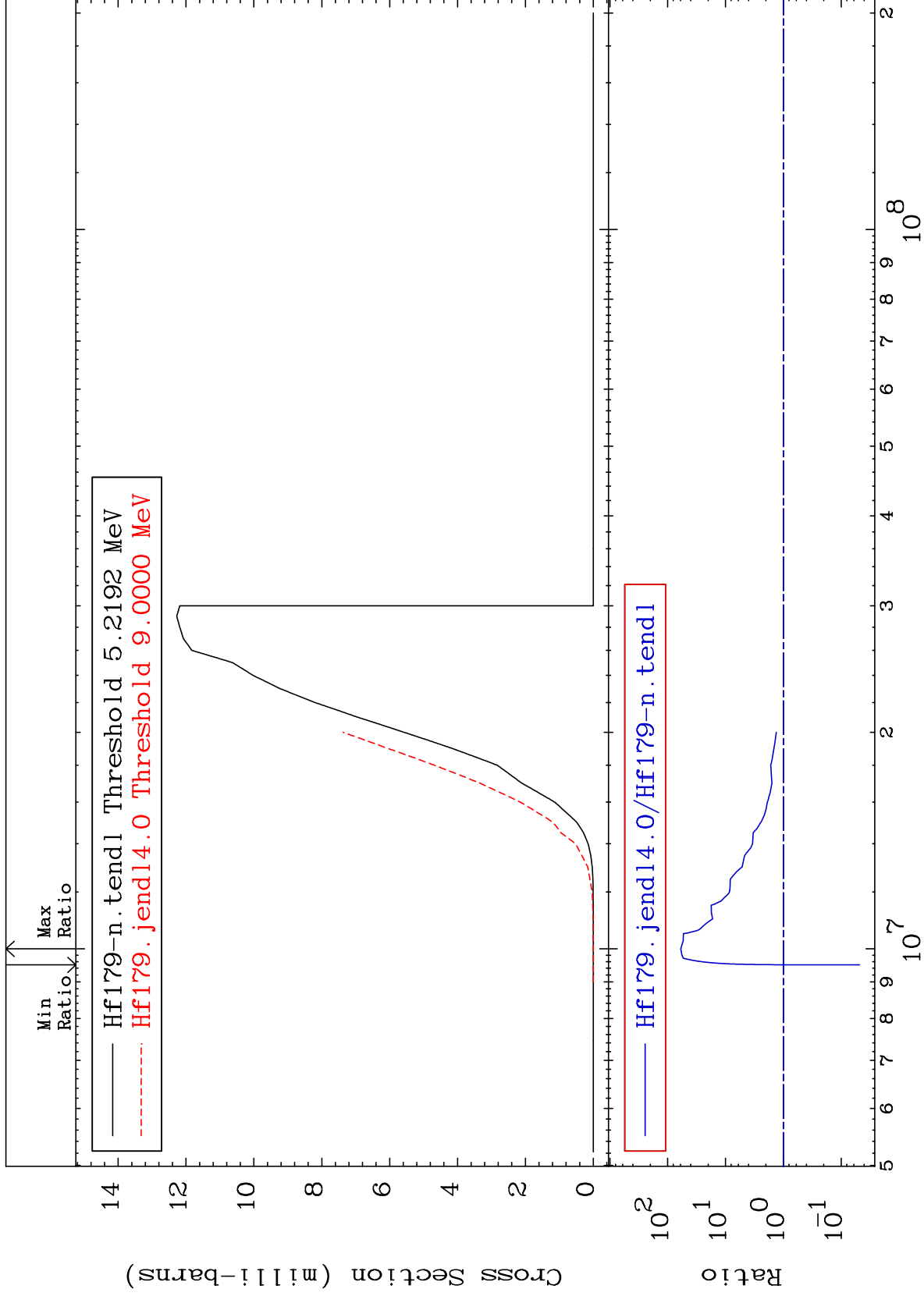
(n,p)  
-63.37 To 135.5 %

Cross Section

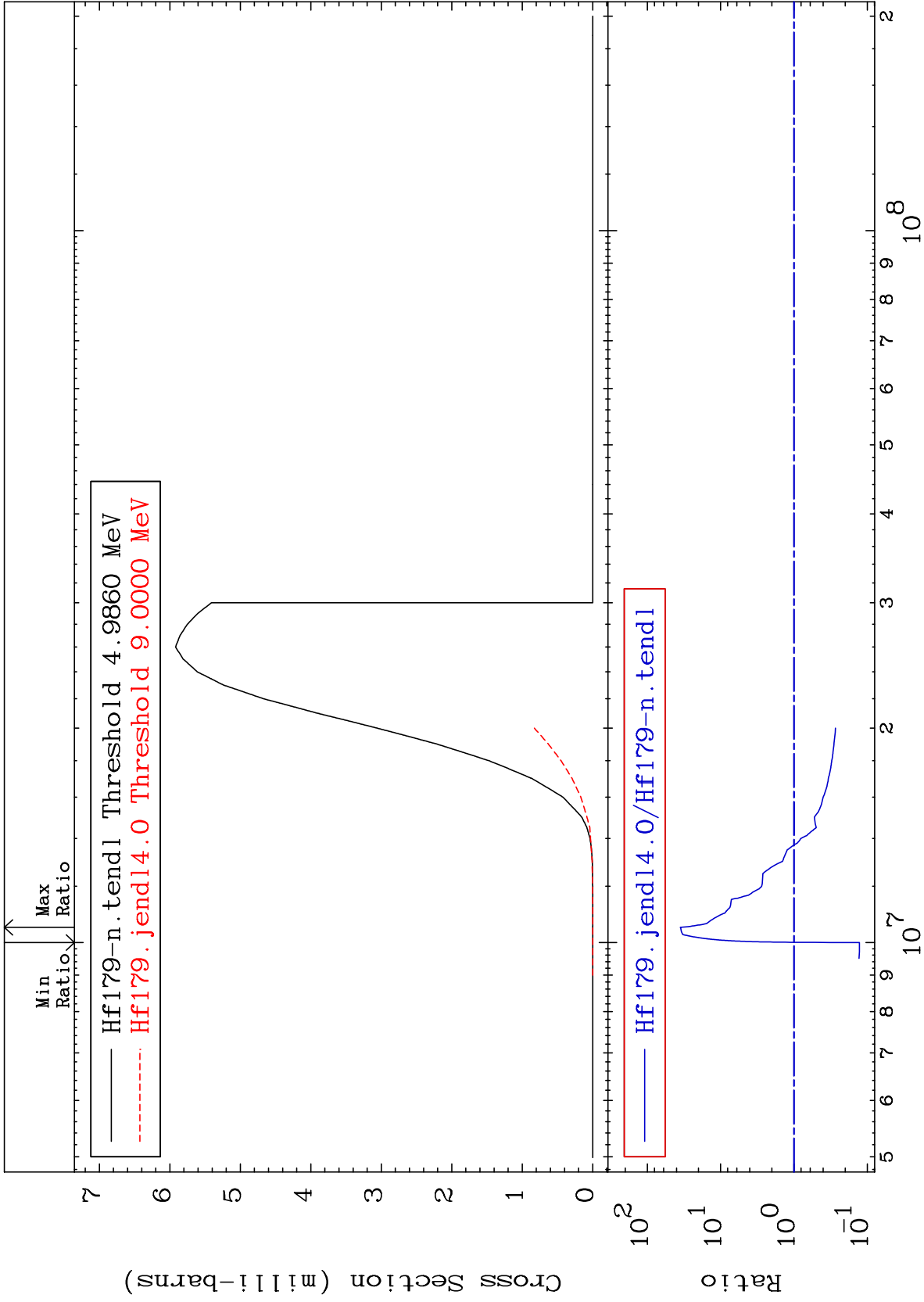


Hf179.jendl4.0/Hf179-n.tendl









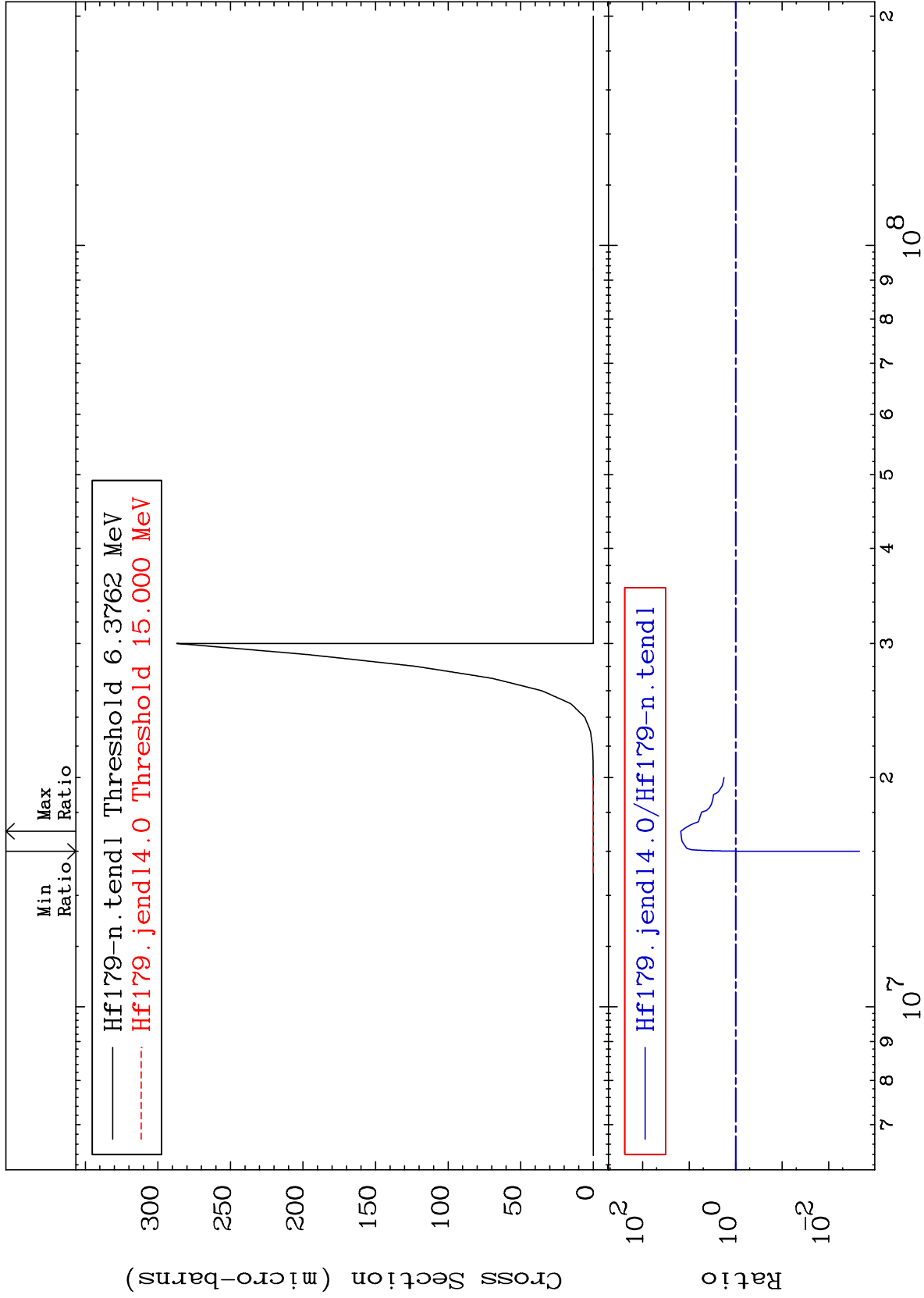
MAT 7240

(n, He-3)

72-Hf-179

Cross Section

-99.78 To 1415. %



42

72-Hf-179

72-Hf-179

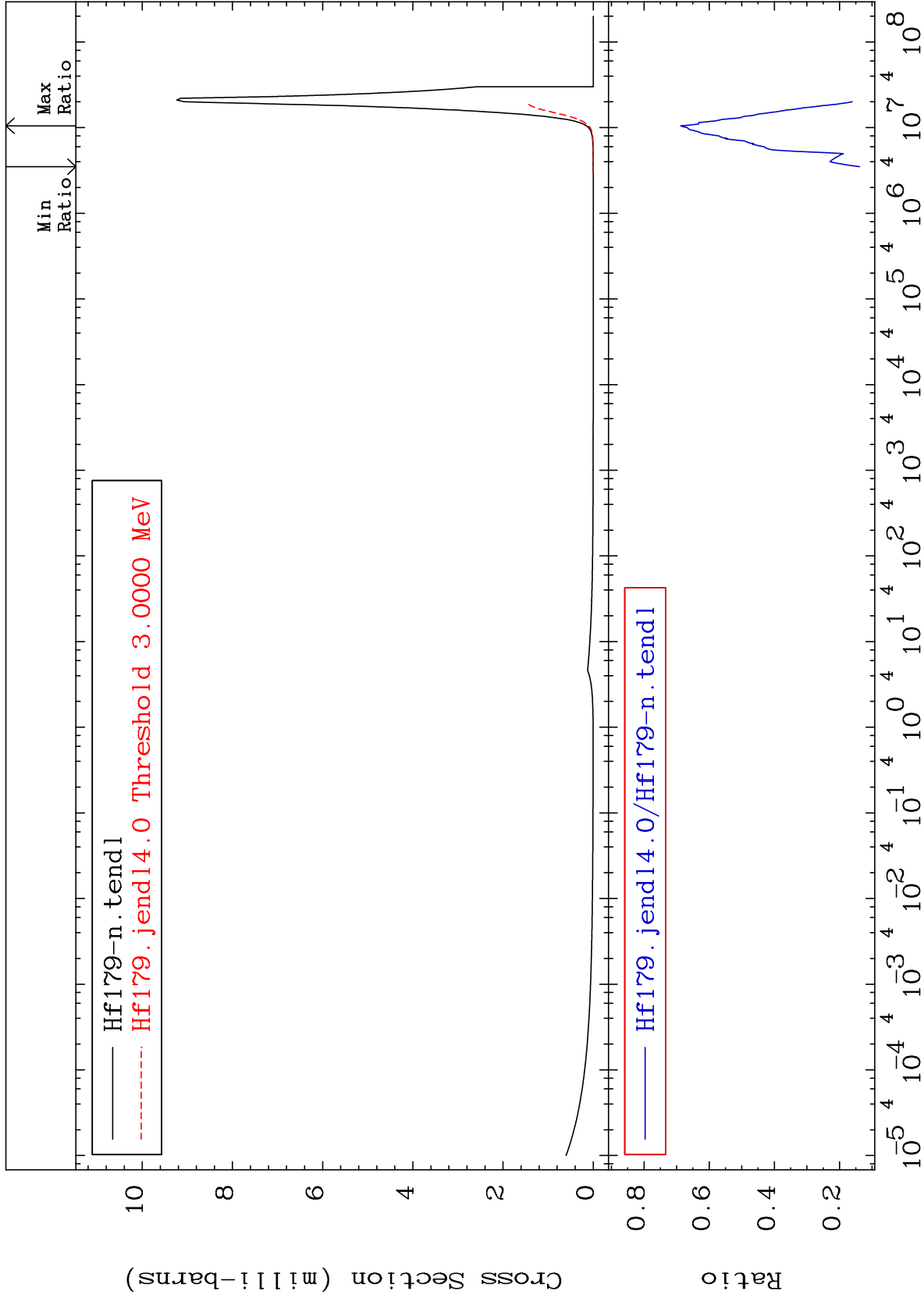
MAT 7240

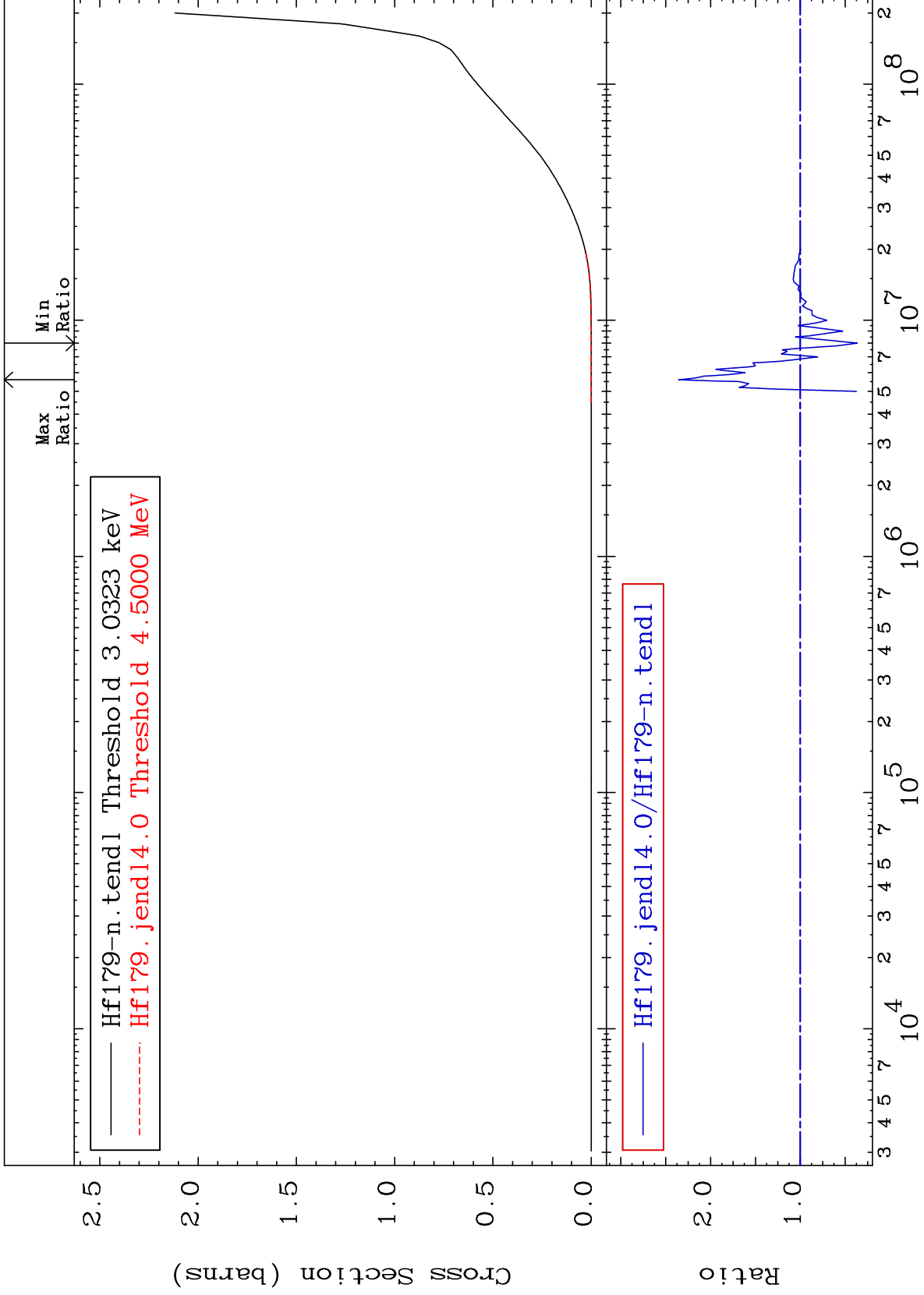
(n,  $\alpha$ )

Cross Section

72-Hf-179

-86.15 To -31.28%

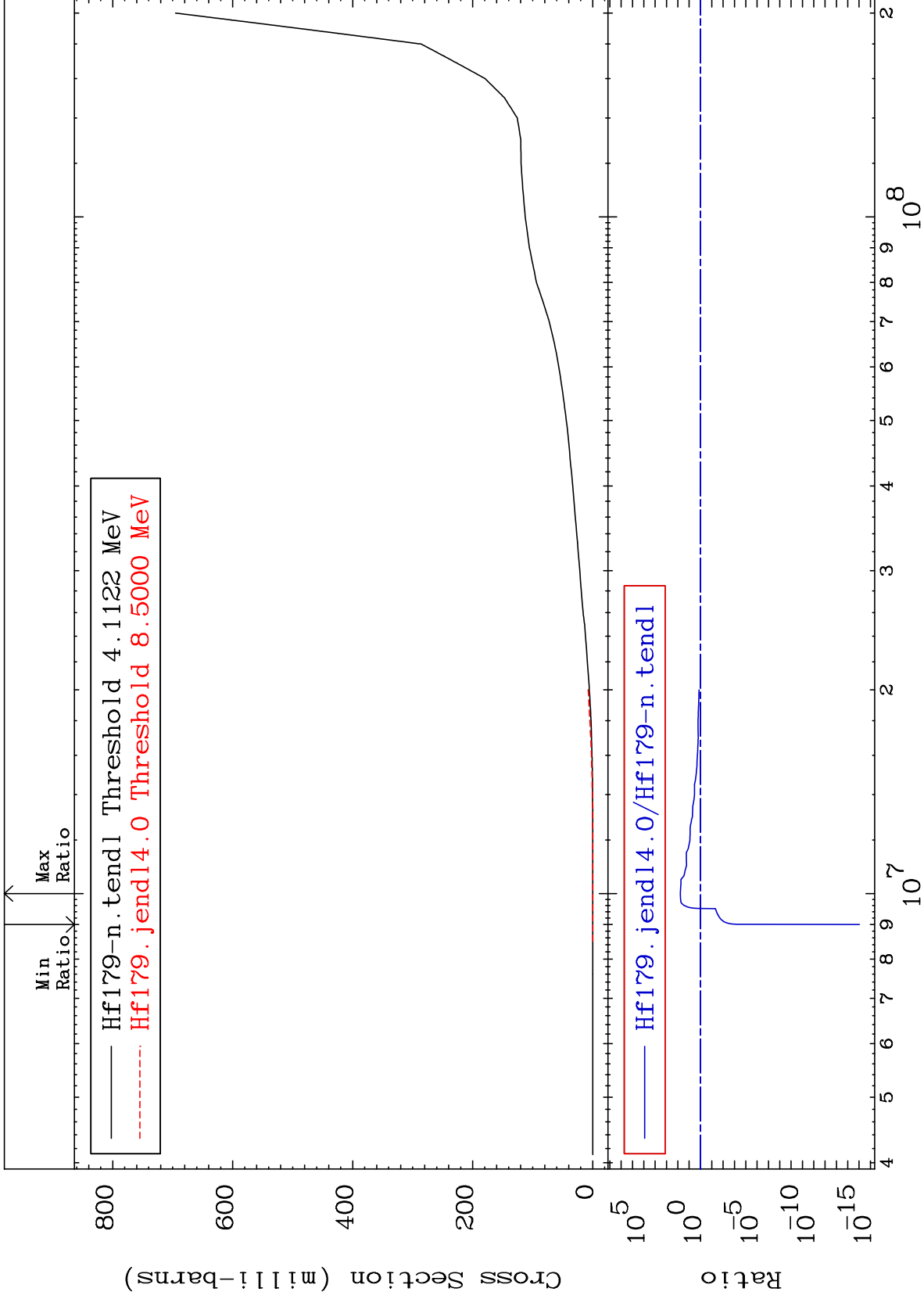


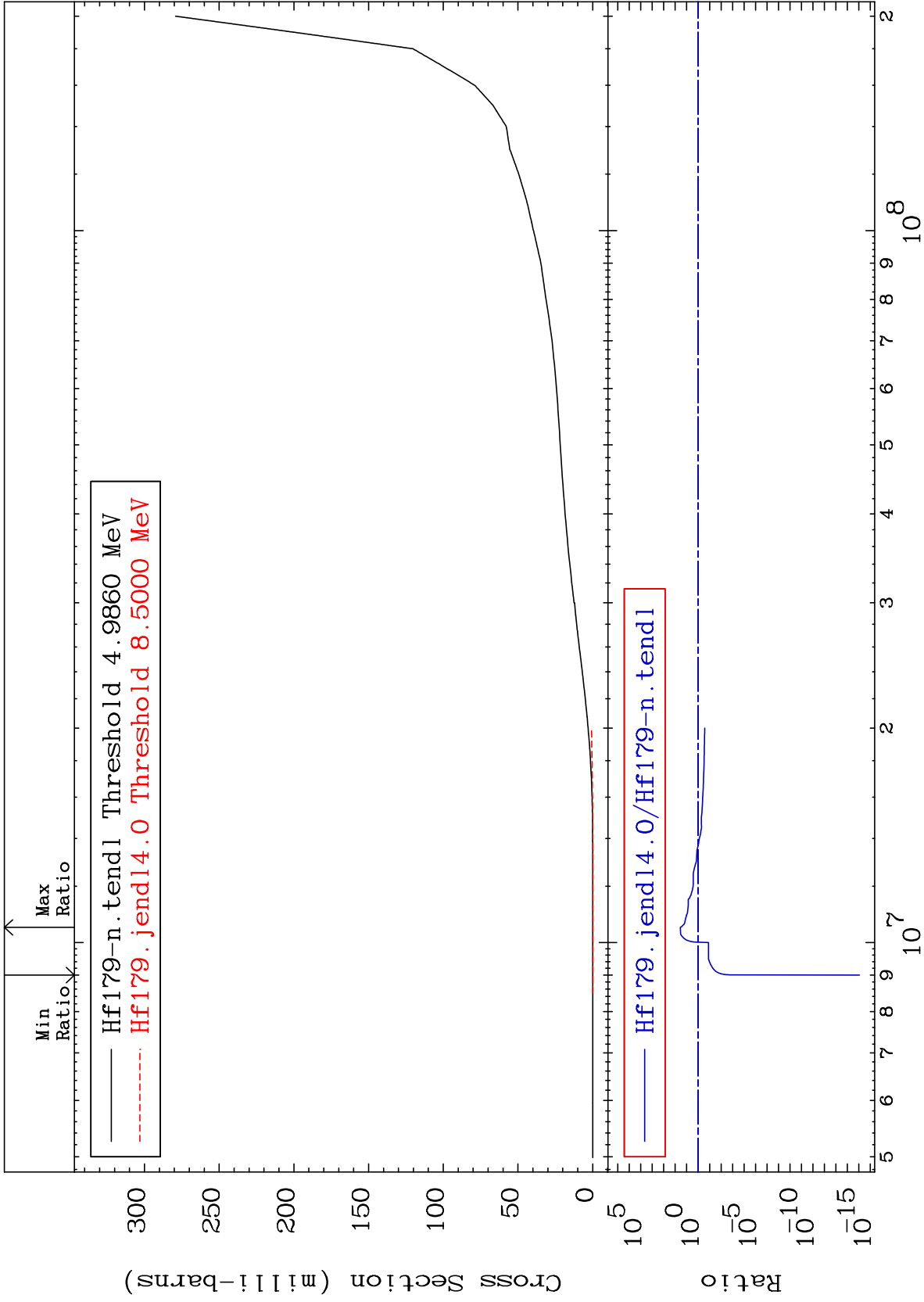


MAT 7240

Deuterium Production  
Cross Section

<sup>72</sup>Hf-<sup>179</sup>  
-100.0 To 5845. %

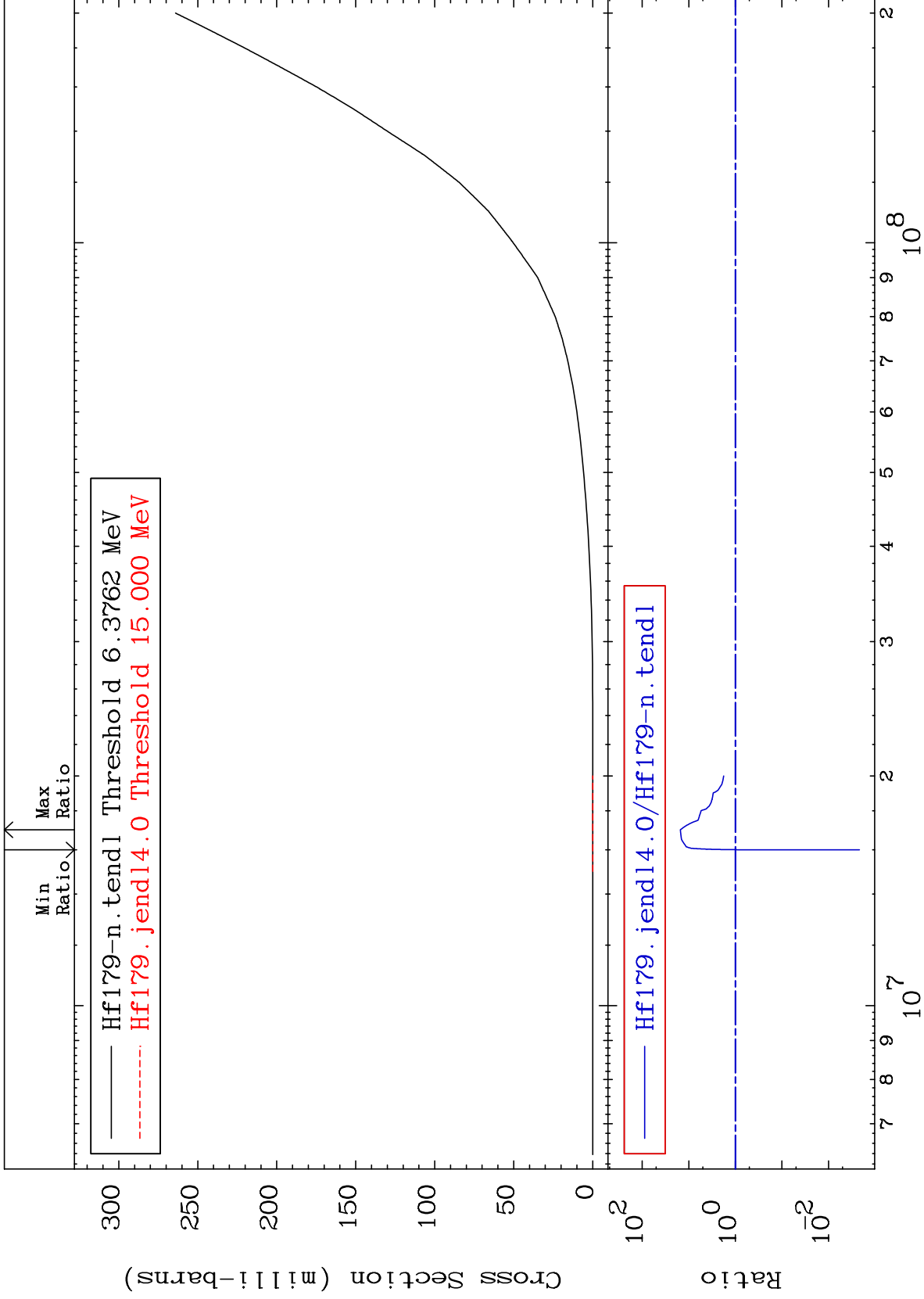




MAT 7240

He-3 Production  
Cross Section

<sup>72</sup>Hf-179  
-99.78 To 1415. %



47

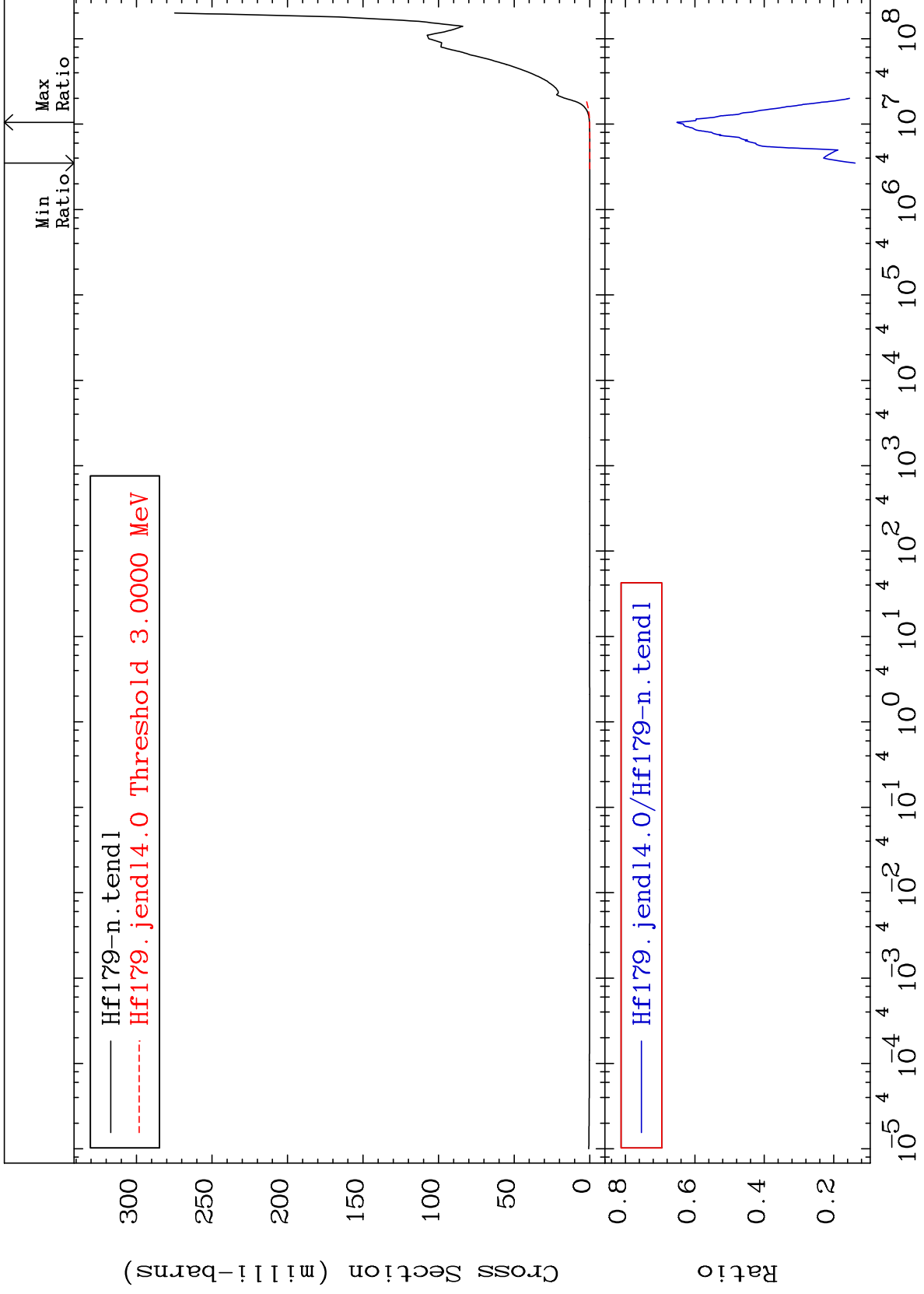
Incident Energy (eV)

<sup>72</sup>Hf-179

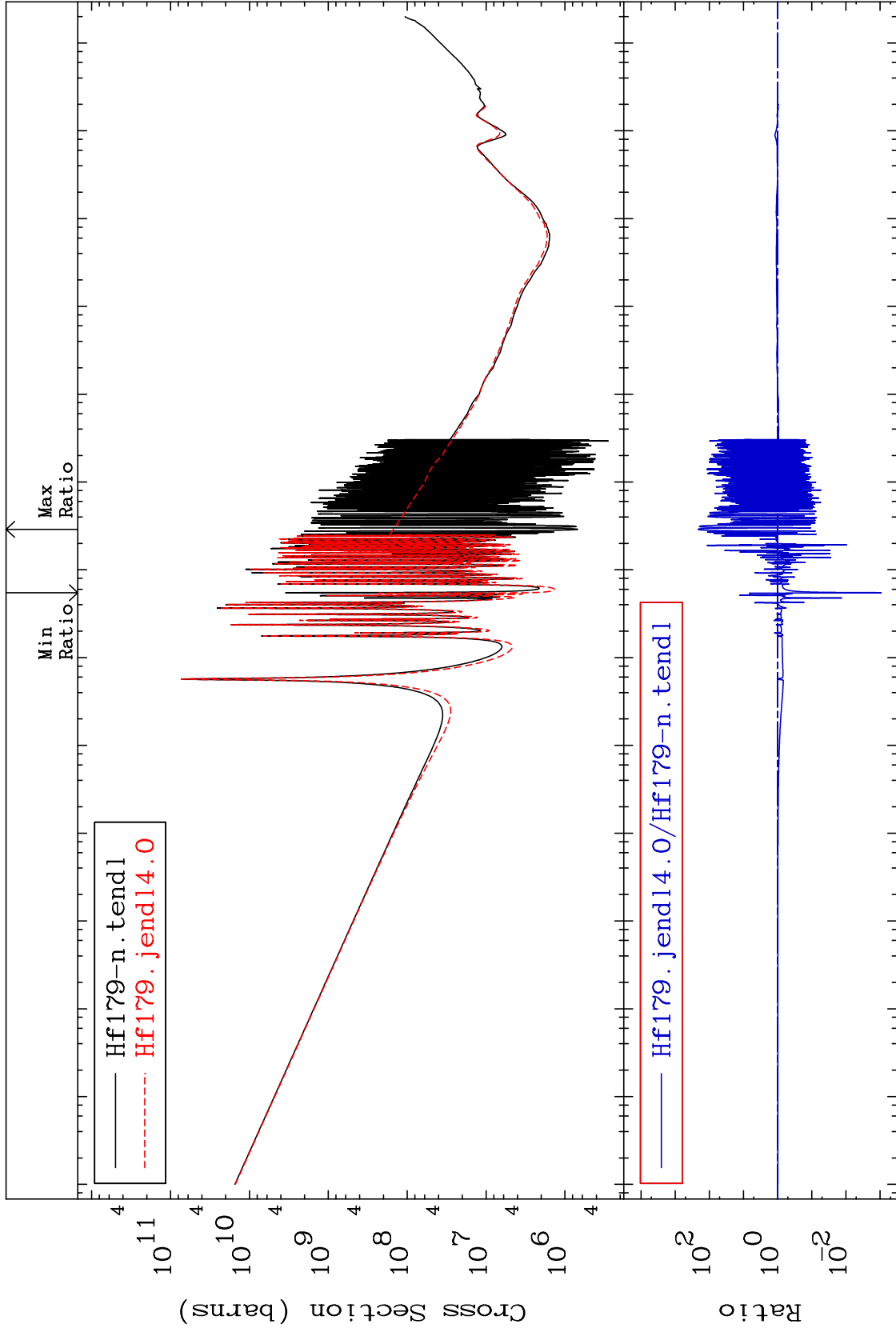
MAT 7240

He-4 Production  
Cross Section

72-Hf-179  
-86.15 To -34.83%



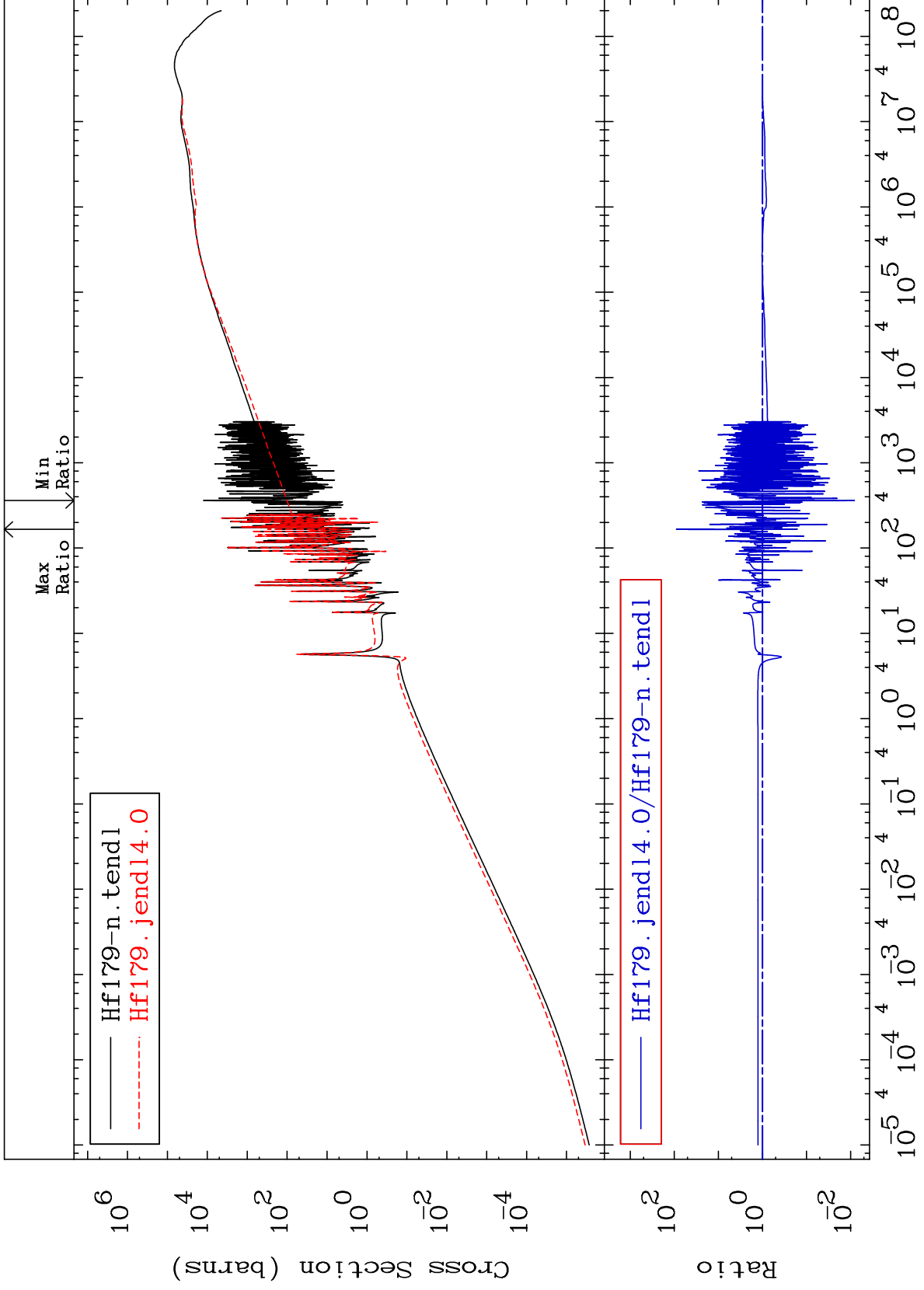




MAT 7240

Kerma elastic  
Cross Section

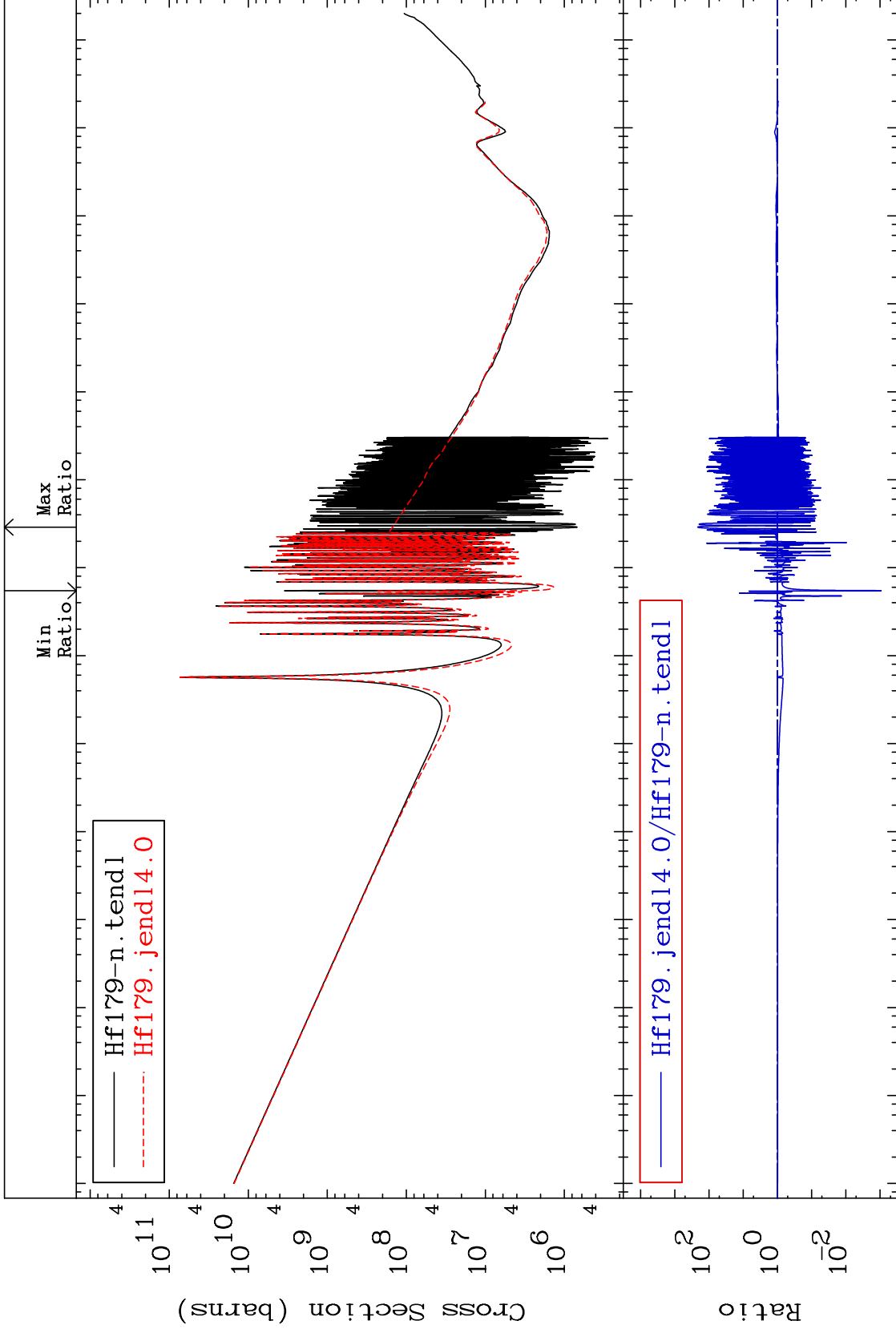
72-Hf-179  
-99.18 To 8899. %



50

Incident Energy (eV)

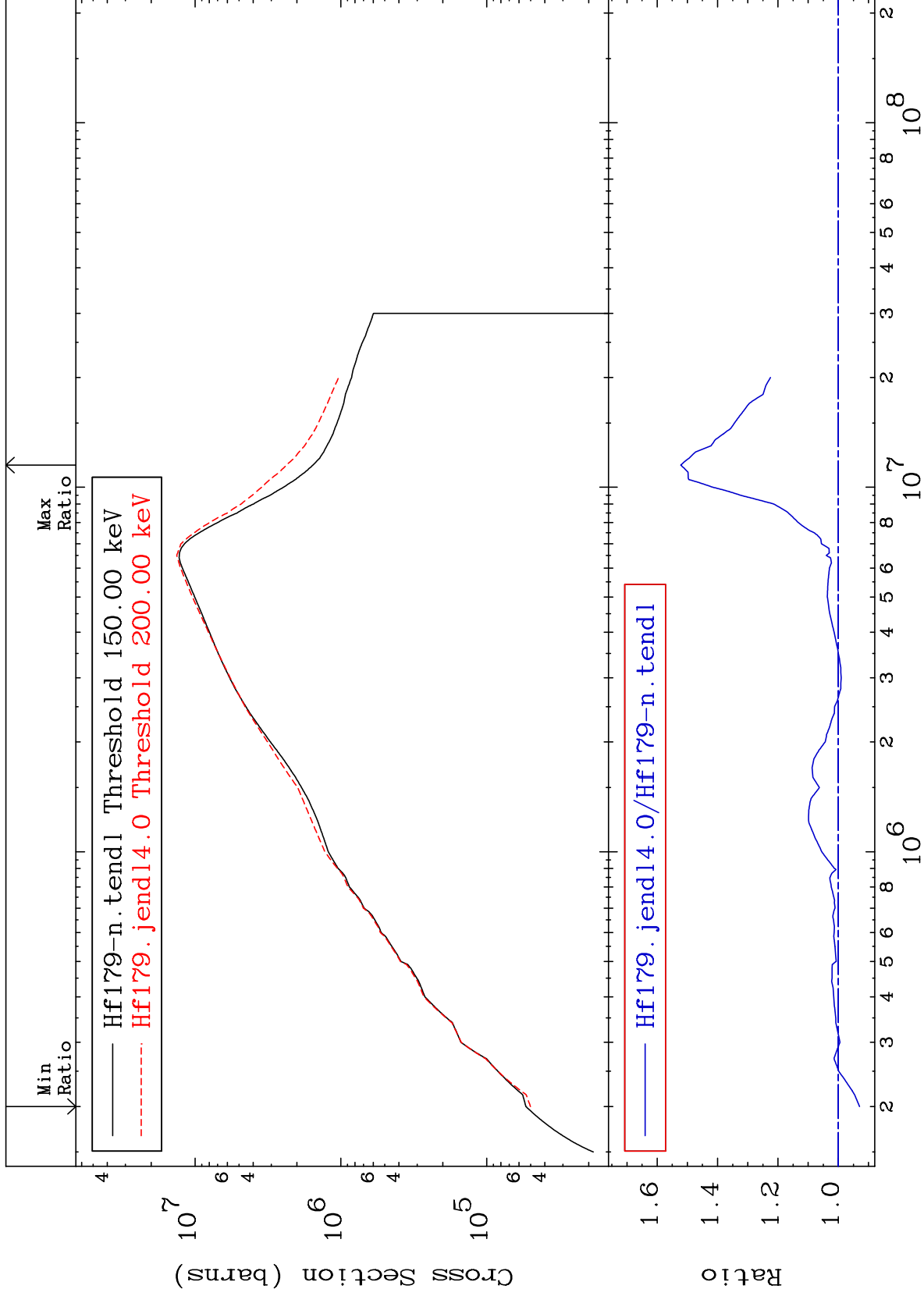
72-Hf-179



MAT 7240

Kerma inelastic (mt51-91)  
Cross Section

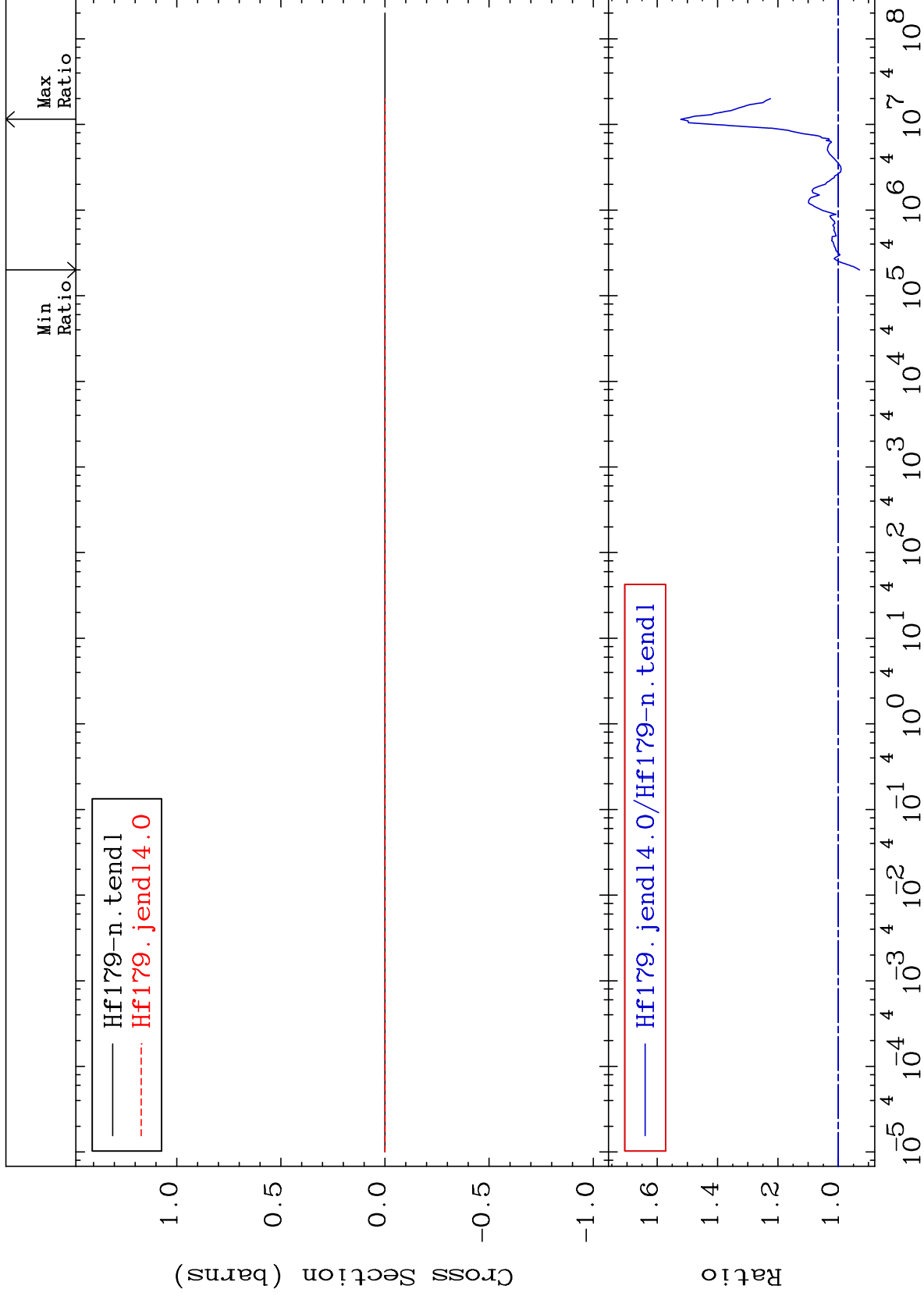
<sup>72</sup>Hf-179  
-7.013 To 52.18 %

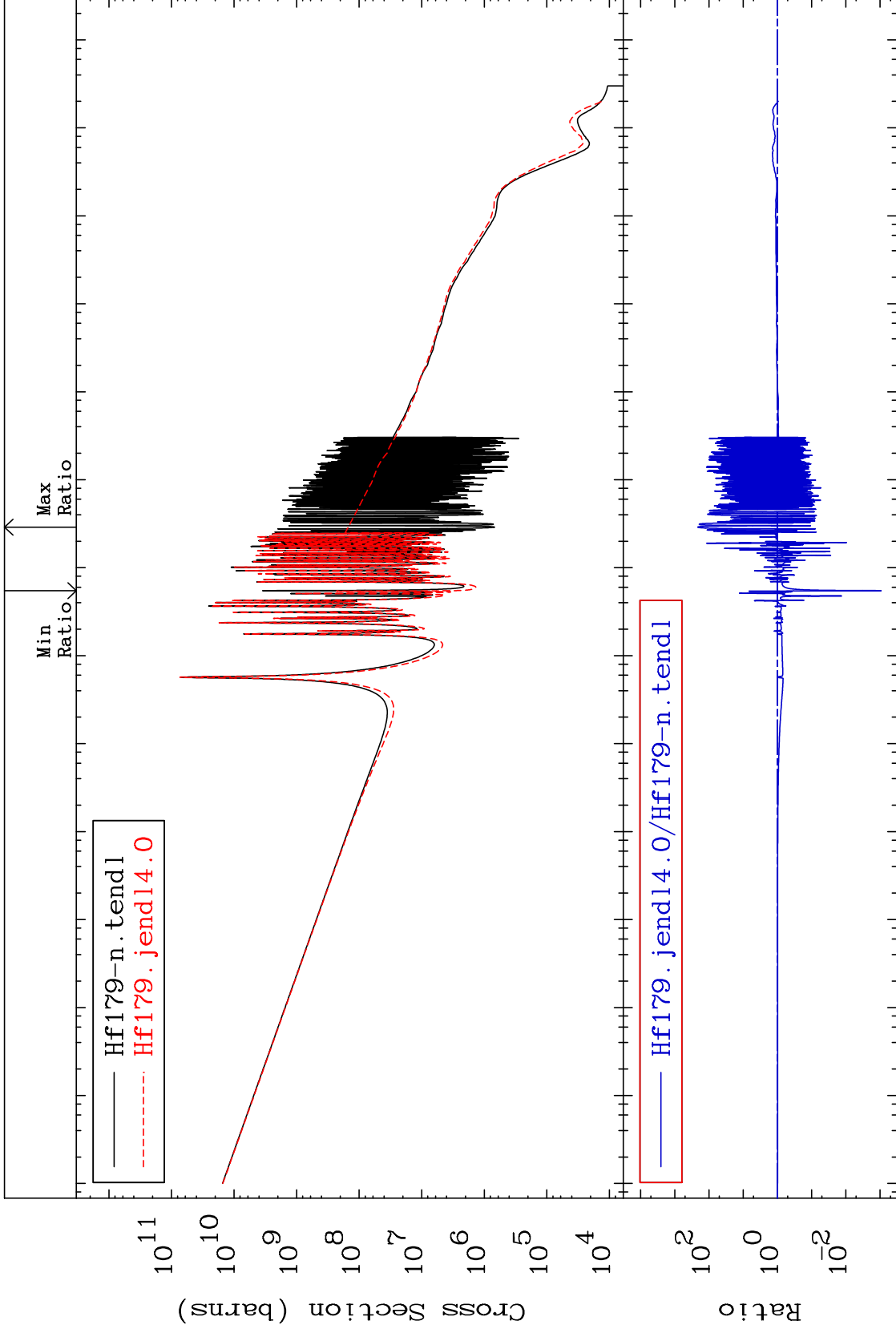


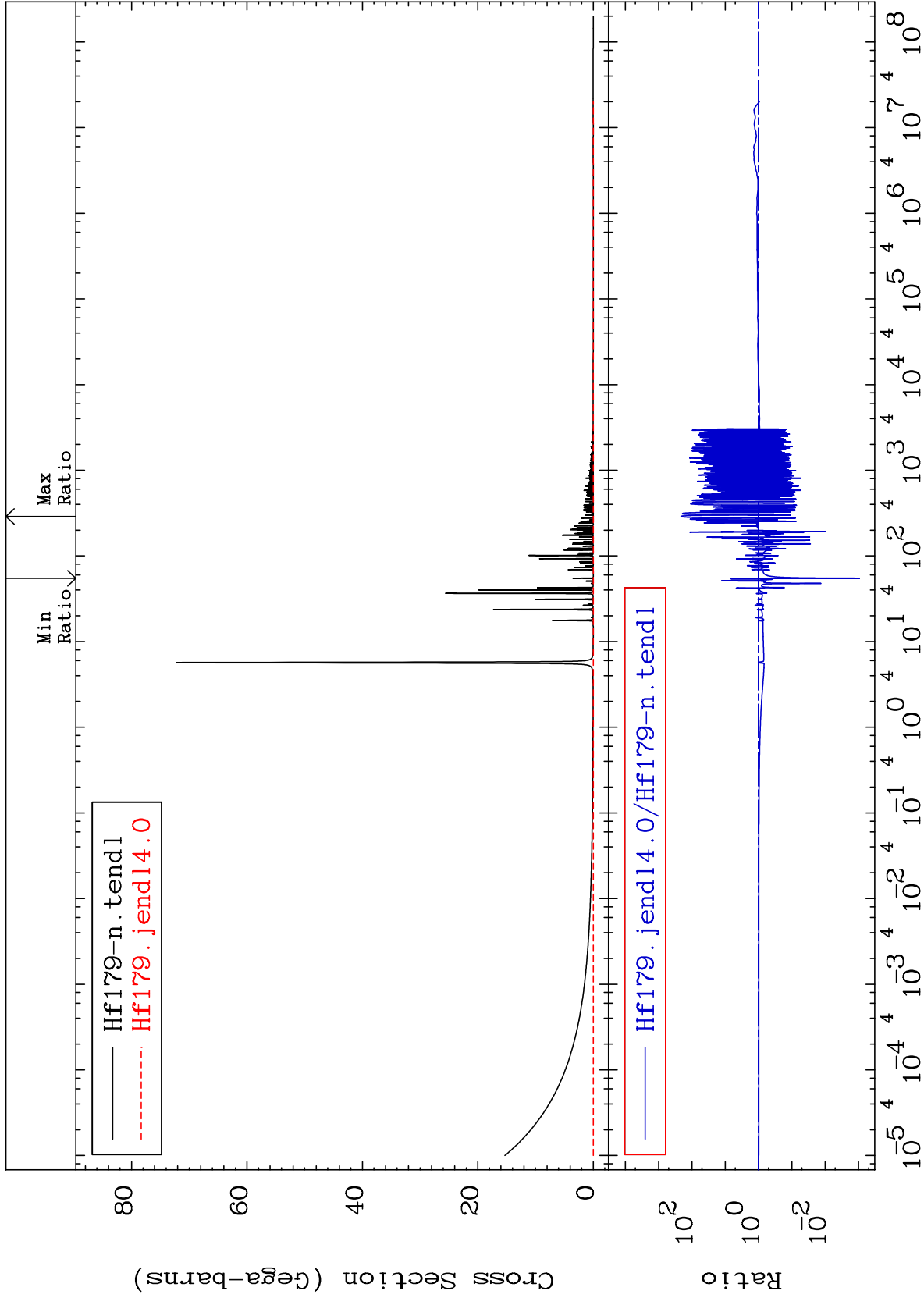
MAT 7240

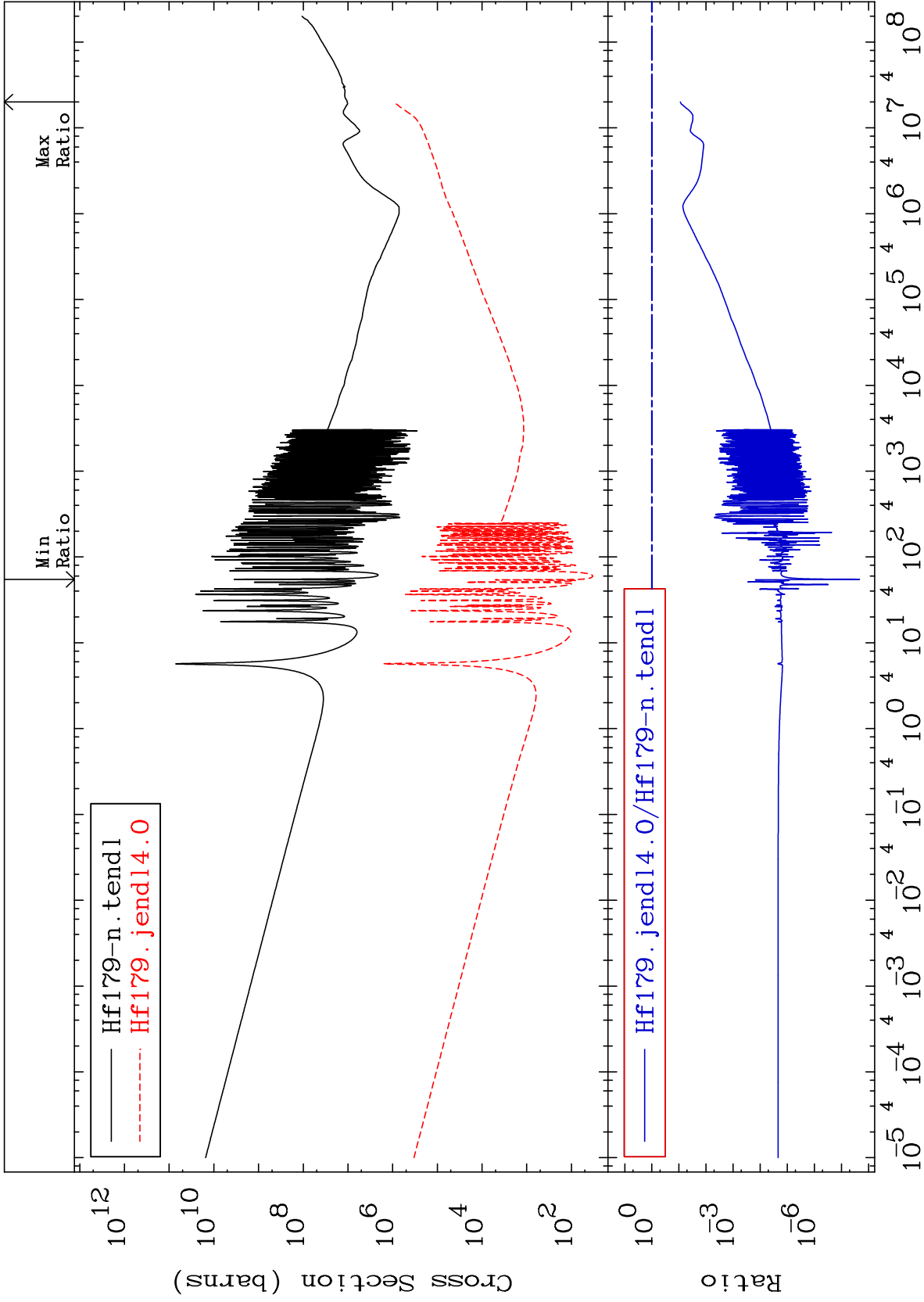
Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

72-Hf-179  
-7.013 To 52.18 %







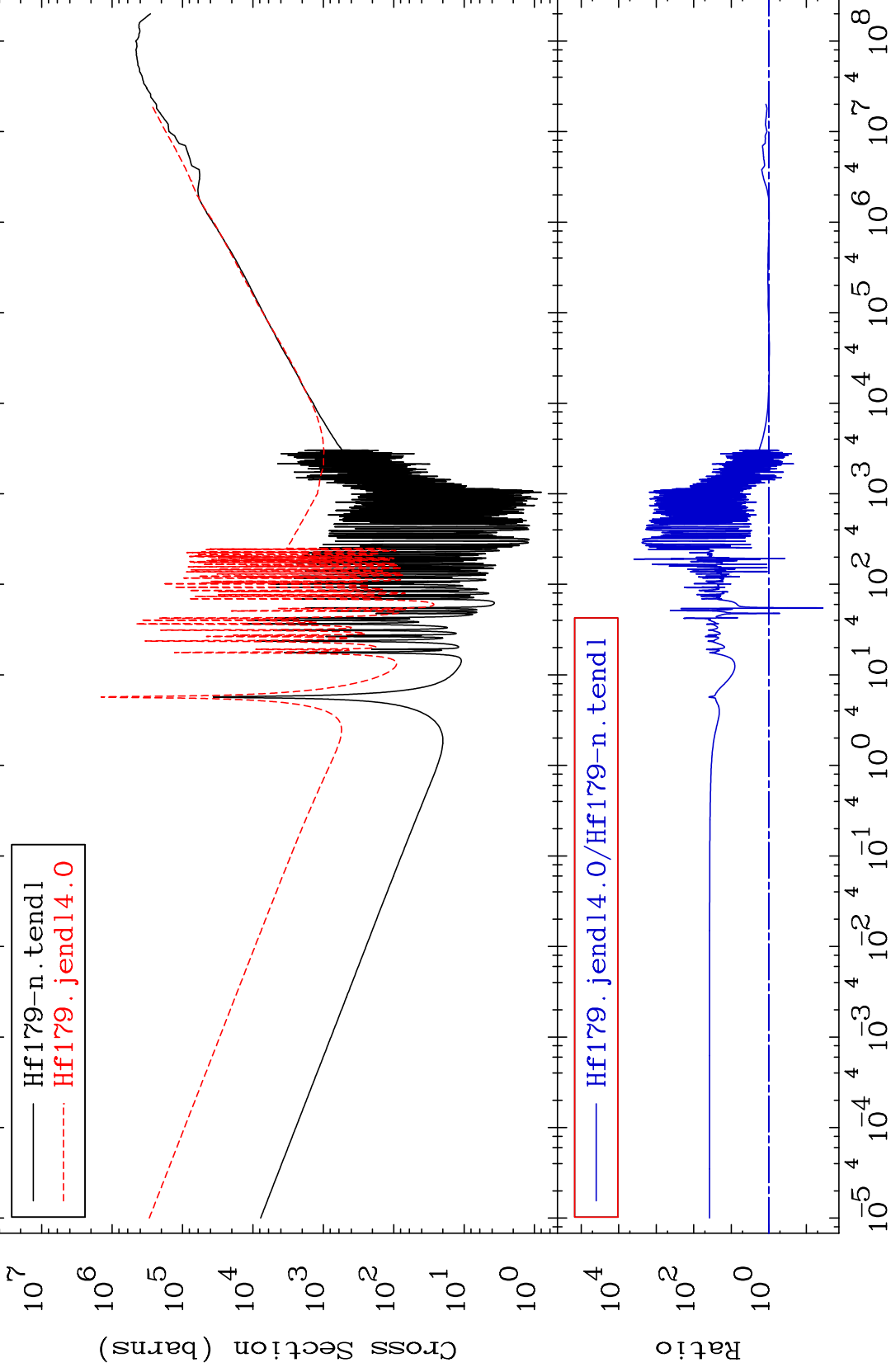




MAT 7240

Dpa total (eV-barns)  
Cross Section

72-Hf-179  
-96.39 To 9999. %



57

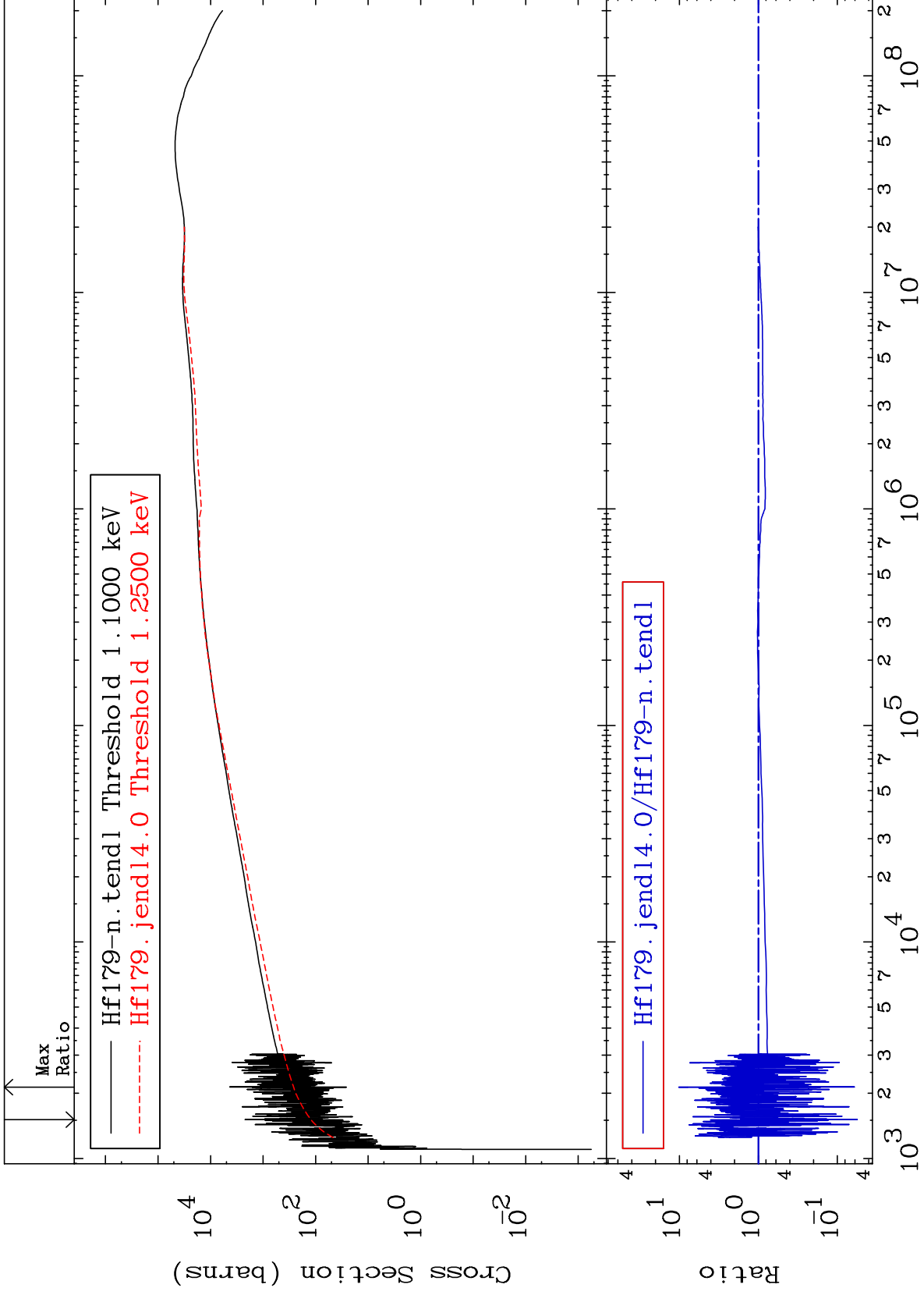
Incident Energy (eV)

72-Hf-179

MAT 7240

Dpa elastic (mt2)  
Cross Section

72-Hf-179  
-94.40 To 921.4 %



58

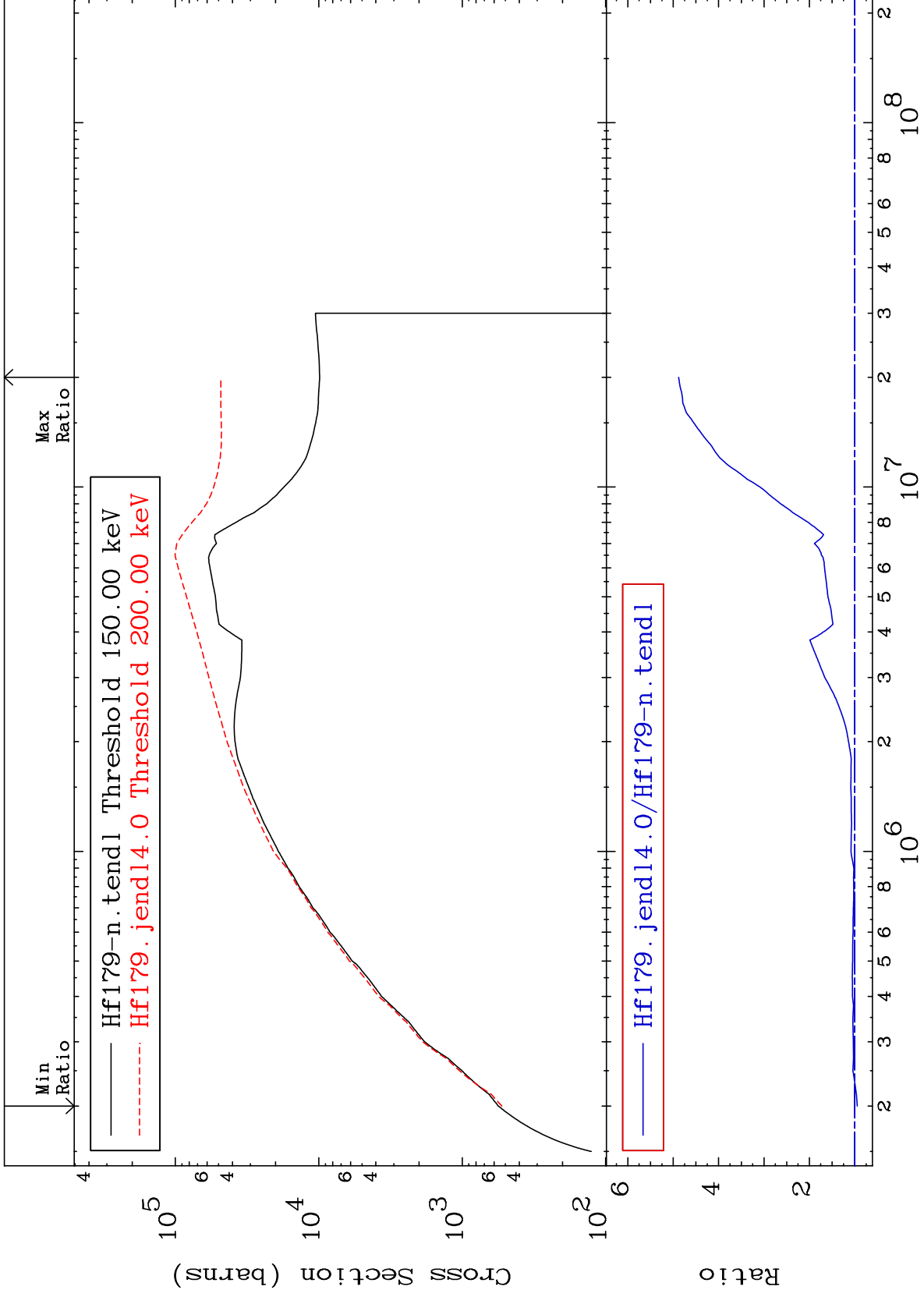
Incident Energy (eV)

72-Hf-179

MAT 7240

Dpa inelastic (mt51-91)  
Cross Section

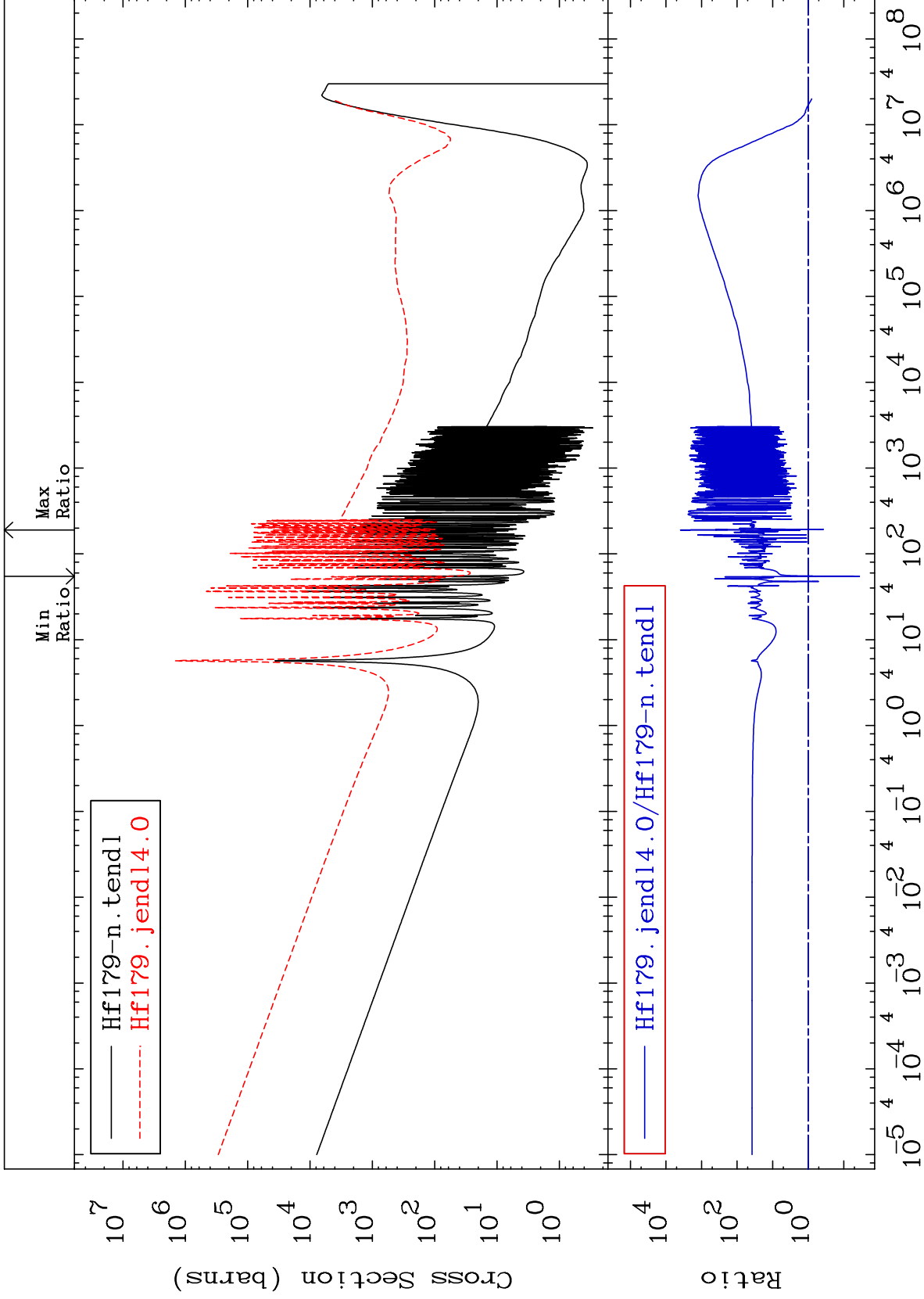
72-Hf-179  
-5.468 To 388.1 %



MAT 7240

Dpa disappearance (mt102 -120)  
Cross Section

72-Hf-179  
-96.39 To 9999. %



60

Incident Energy (eV)

72-Hf-179