

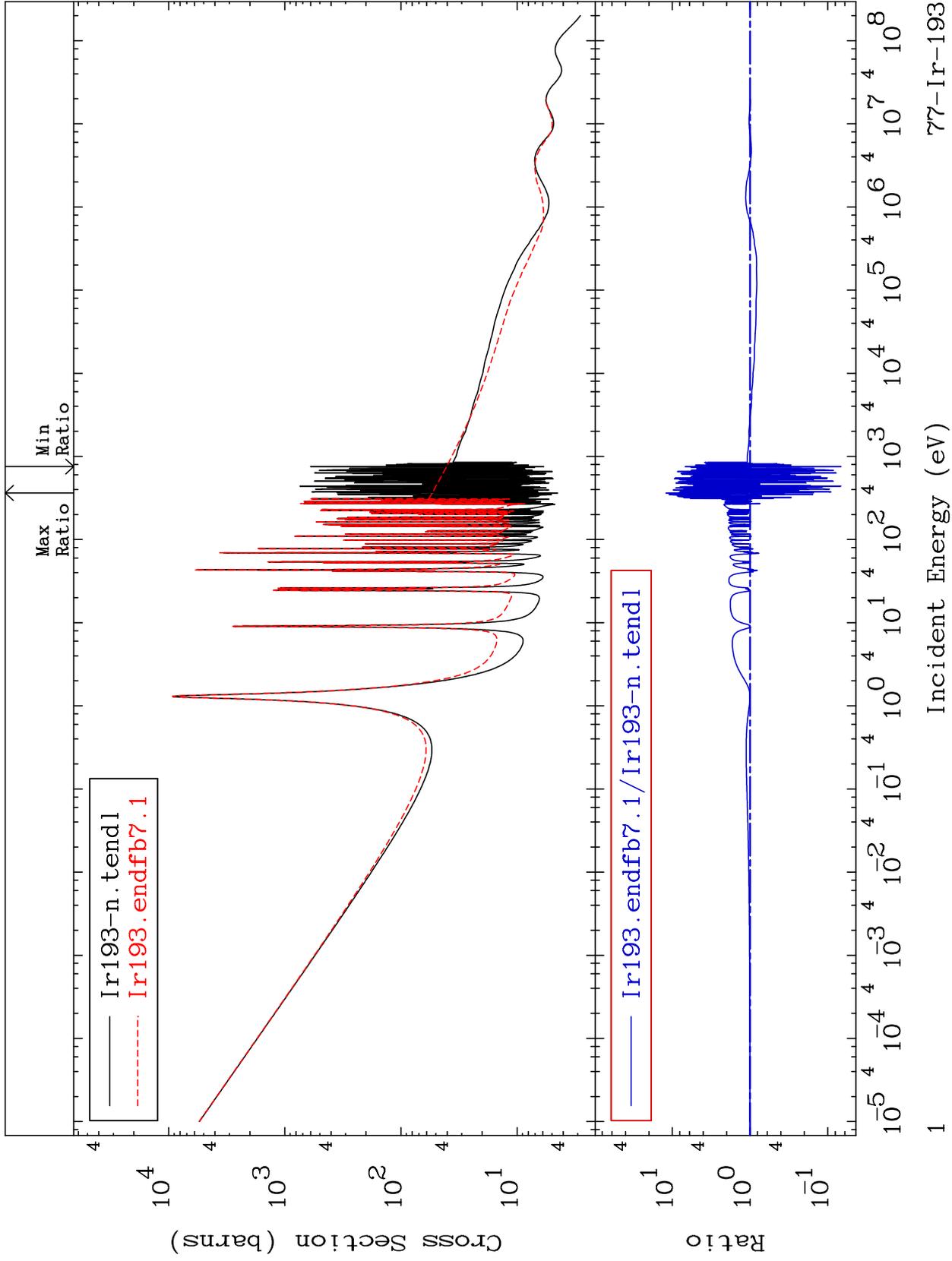
MAT 7731

Total

77-Ir-193

Cross Section

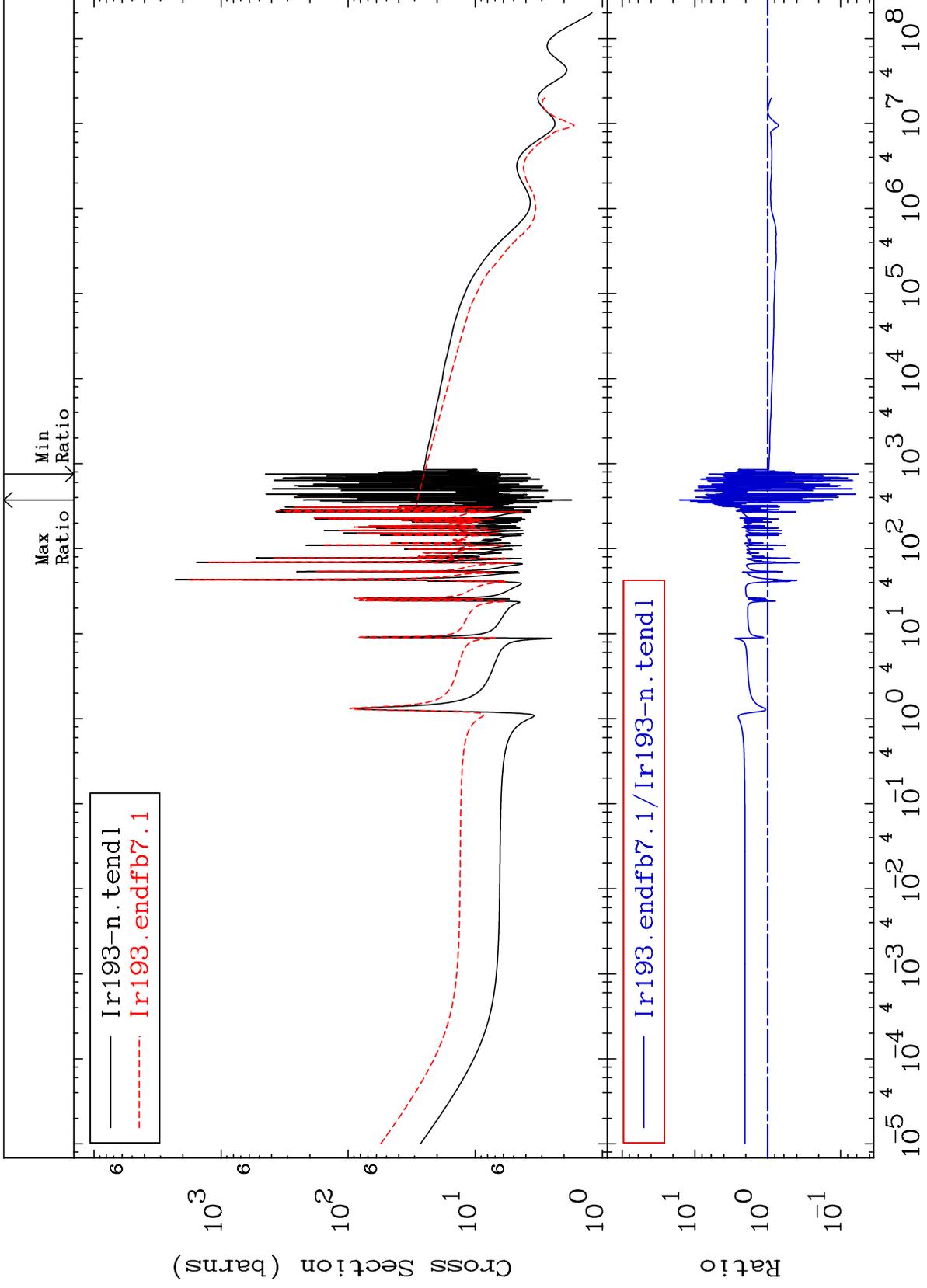
-93.26 To 1108. %



MAT 7731

Elastic  
Cross Section

77-Ir-193  
-94.33 To 1527. %



2

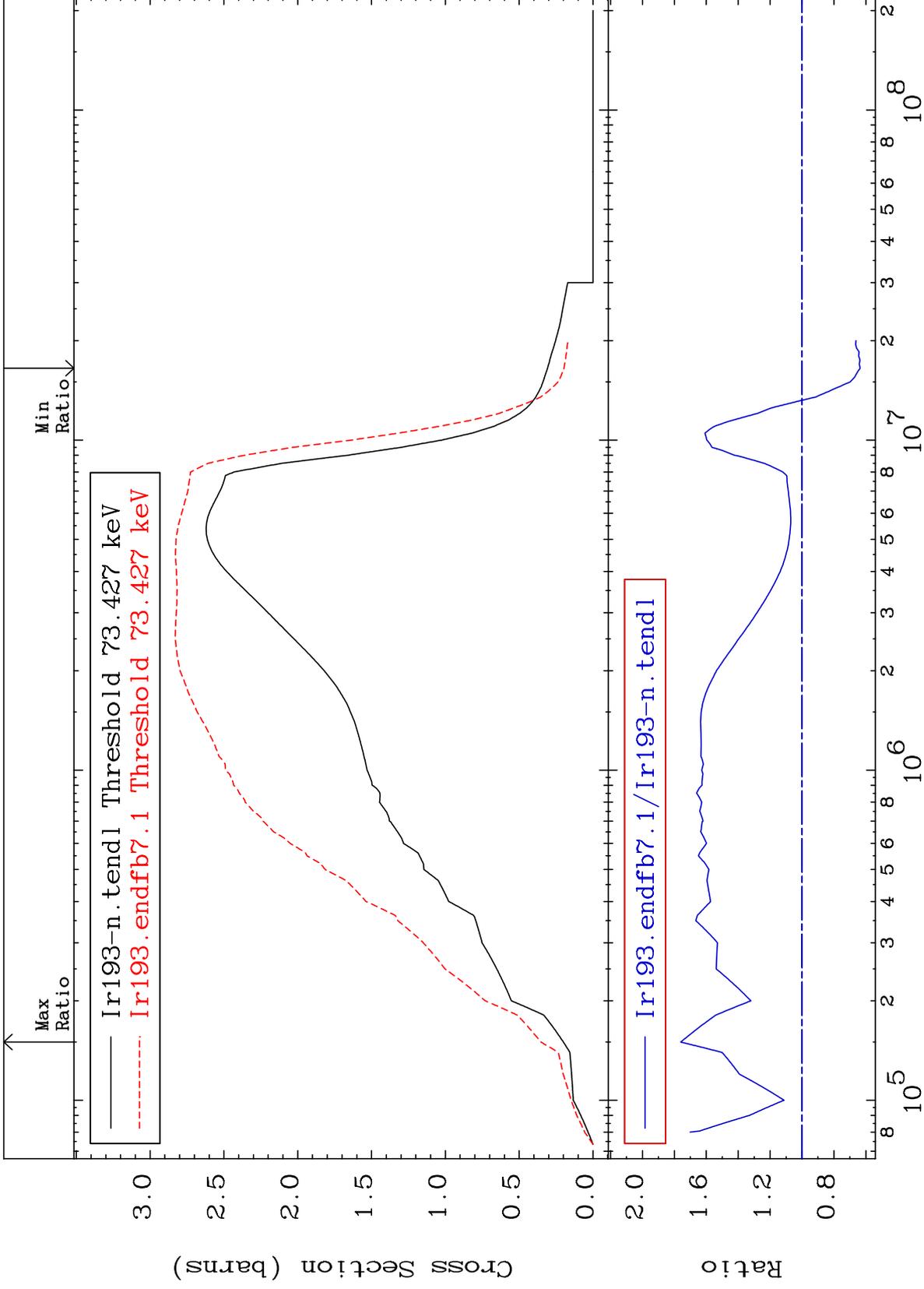
Incident Energy (eV)

77-Ir-193

MAT 7731

Inelastic  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>  
-36.37 To 75.99 %



3

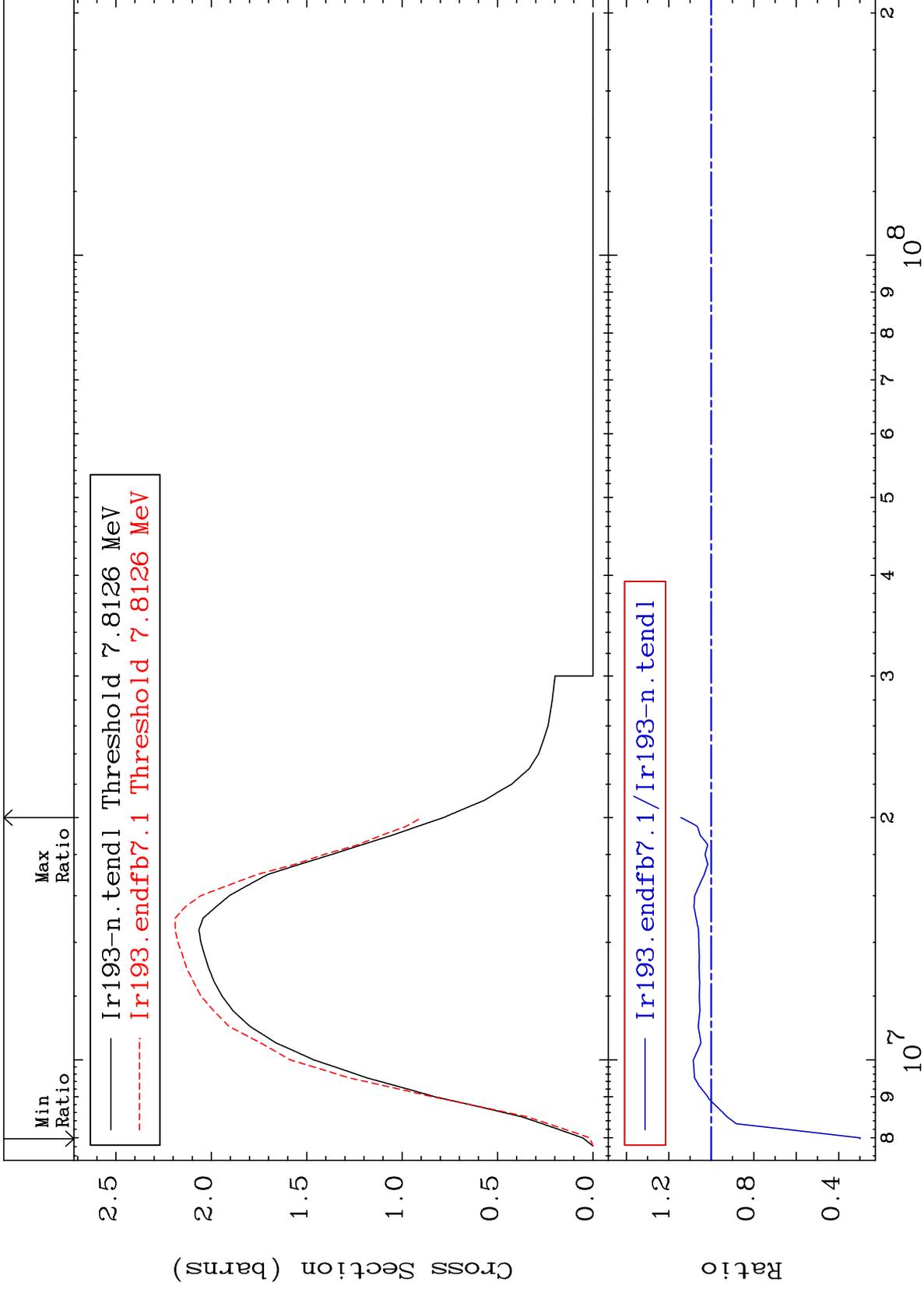
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>

MAT 7731

(n,2n)  
Cross Section

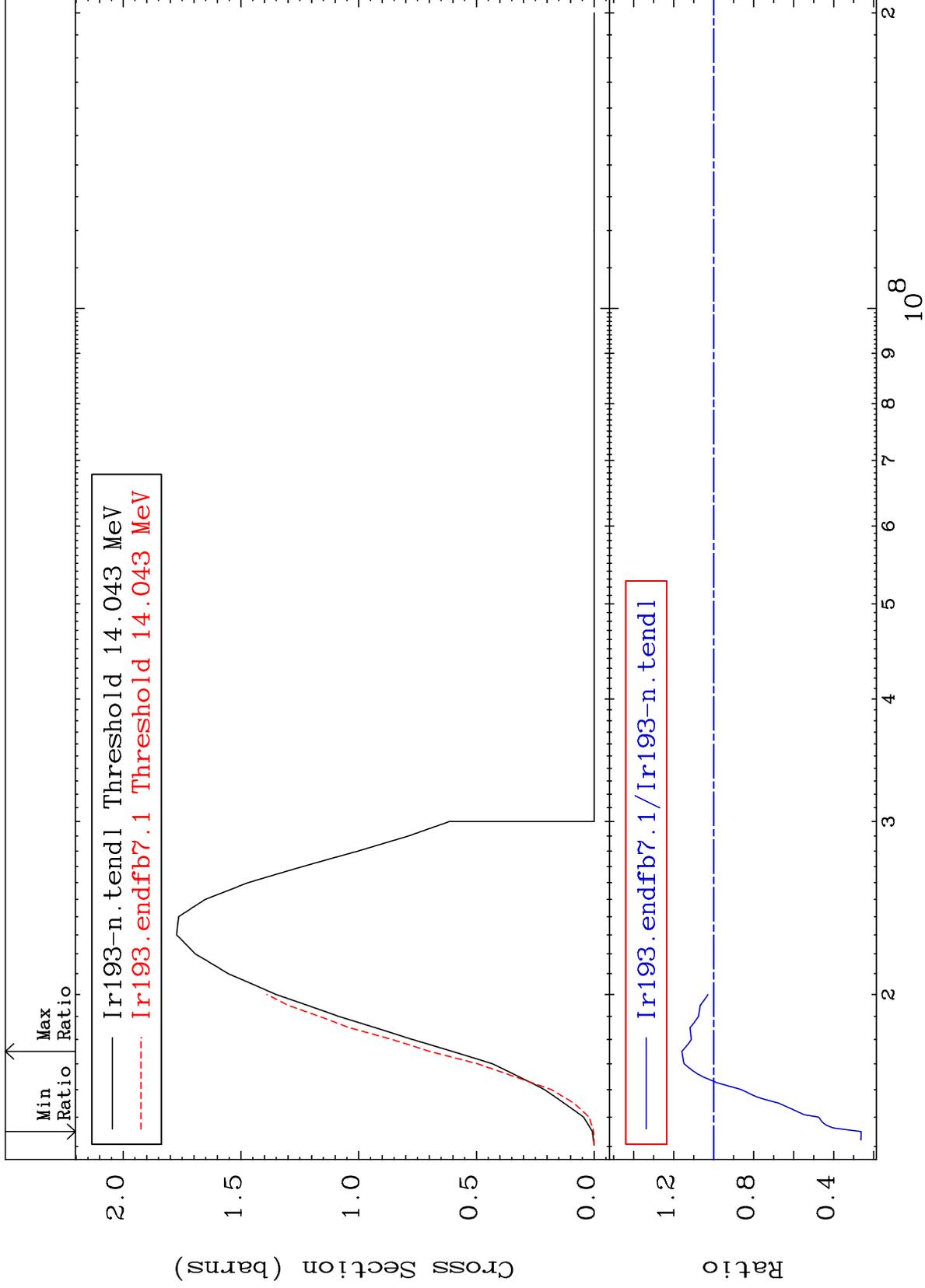
<sup>77</sup>Ir-<sup>193</sup>  
-70.08 To 14.38 %



4

Incident Energy (eV)

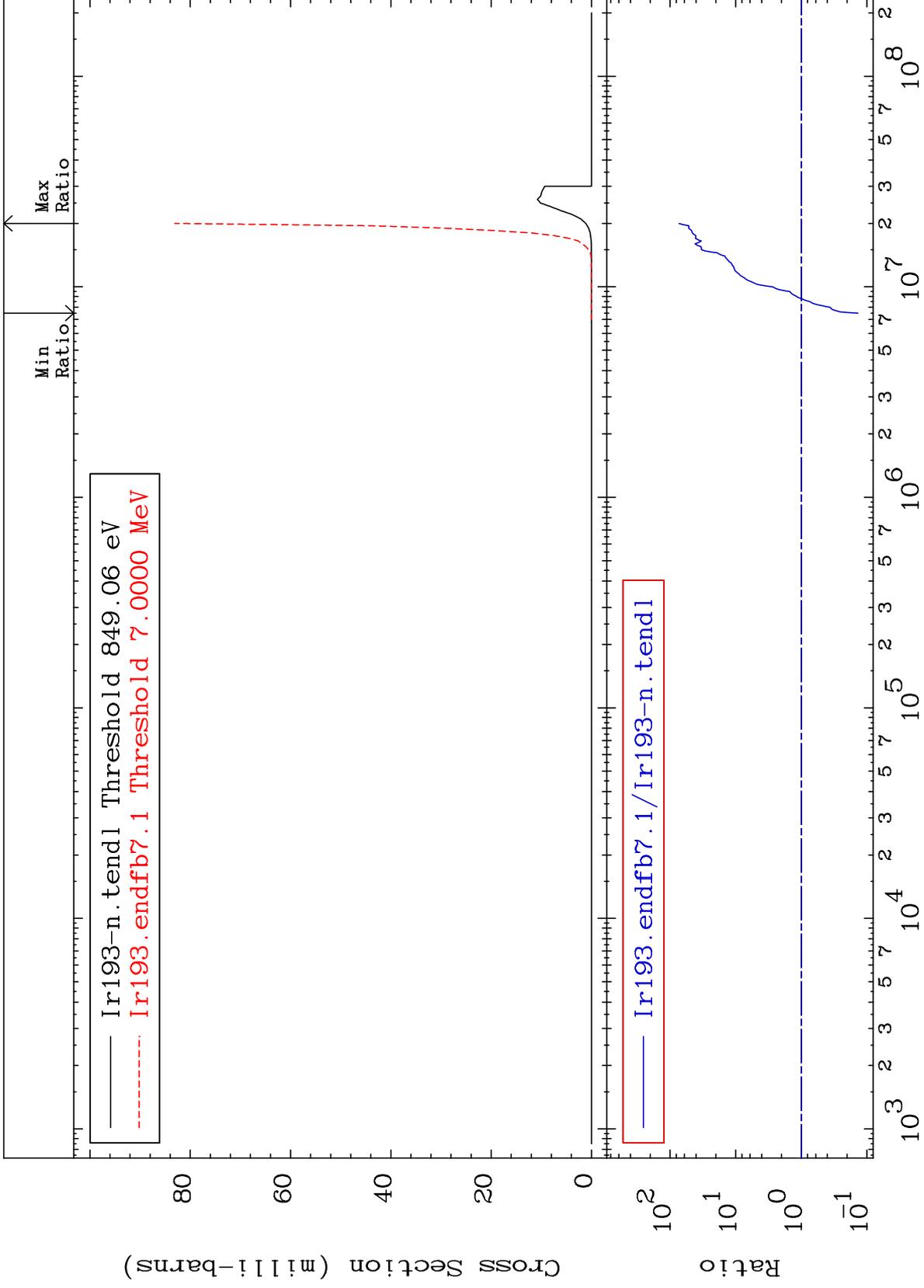
<sup>77</sup>Ir-<sup>193</sup>



MAT 7731

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

<sup>77</sup>Ir-<sup>193</sup>  
-86.34 To 7166. %



6

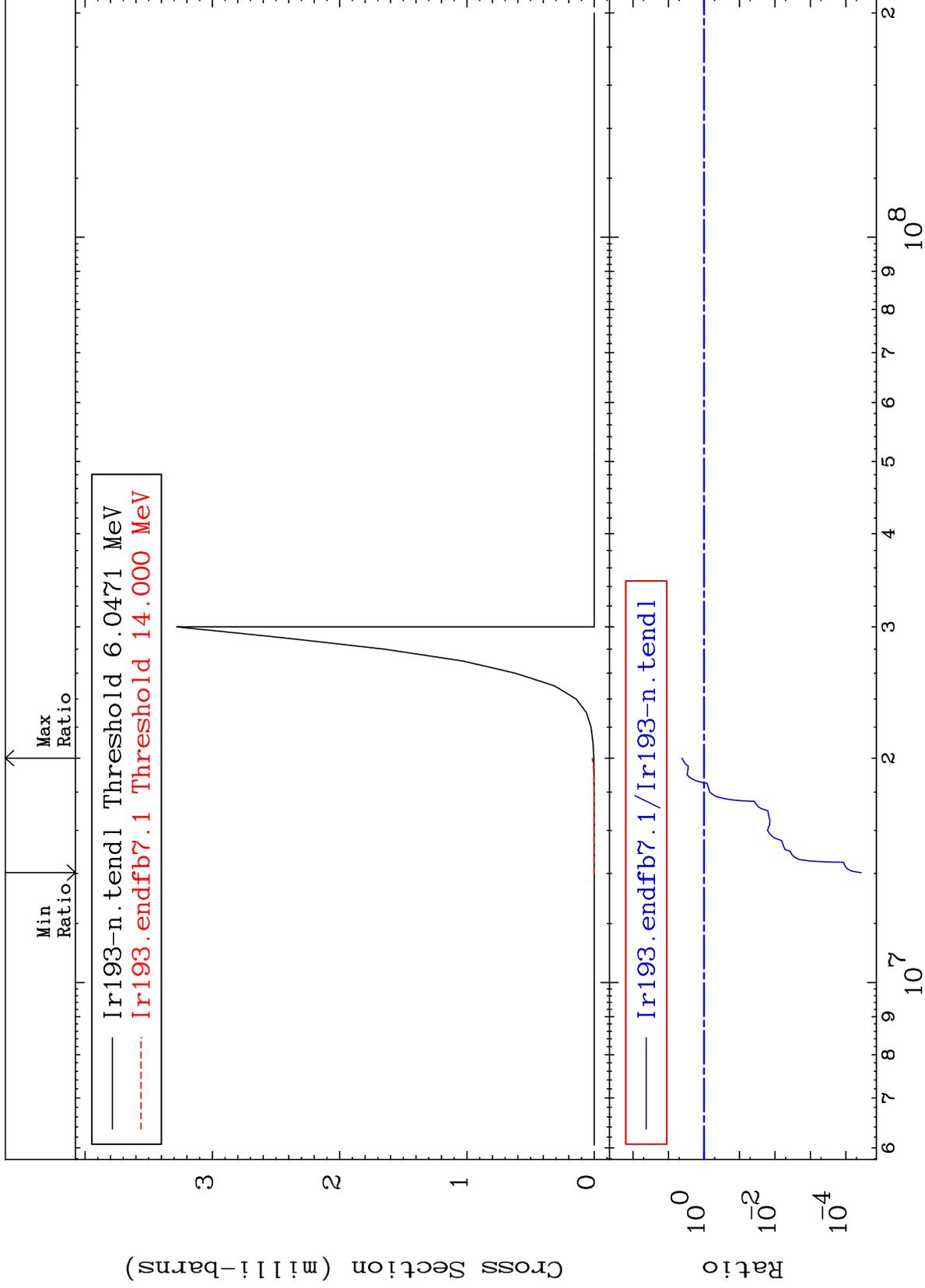
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>

MAT 7731

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

<sup>77</sup>Ir-193  
-100.0 To 318.8 %



7

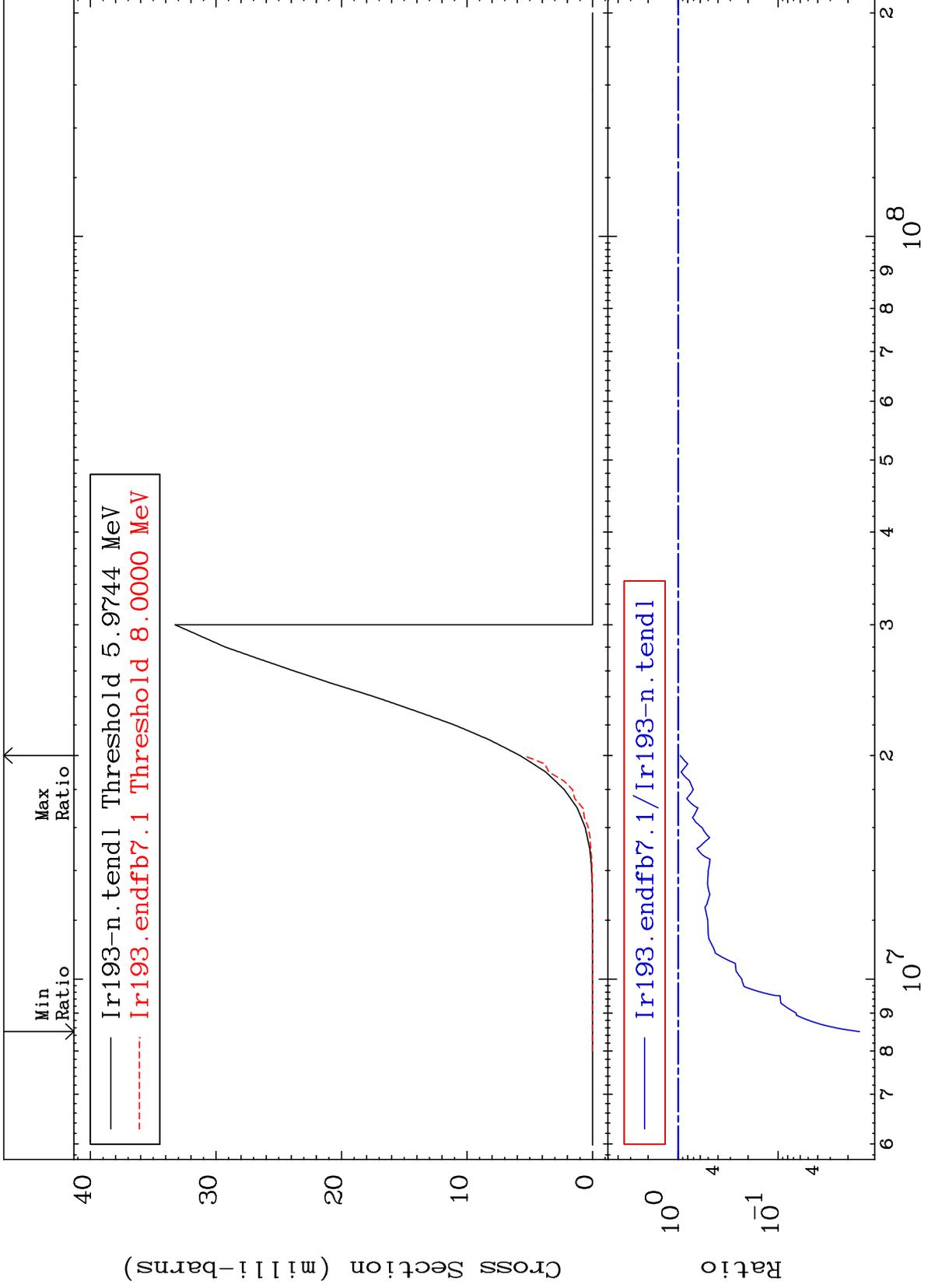
Incident Energy (eV)

<sup>77</sup>Ir-193

MAT 7731

(n, n') p  
Cross Section

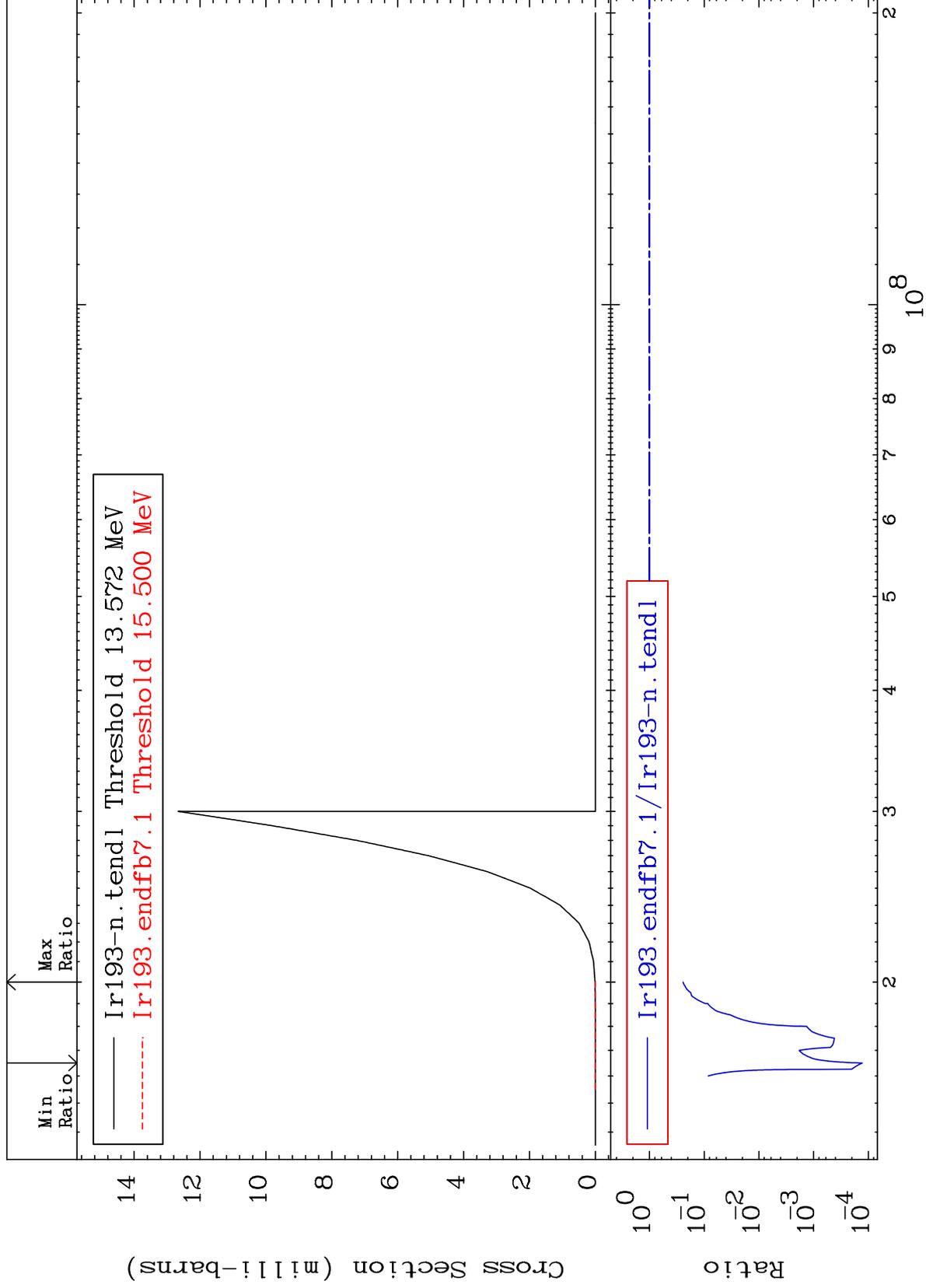
<sup>77</sup>Ir-<sup>193</sup>  
-98.47 To -4.789%



MAT 7731

(n,2n) p  
Cross Section

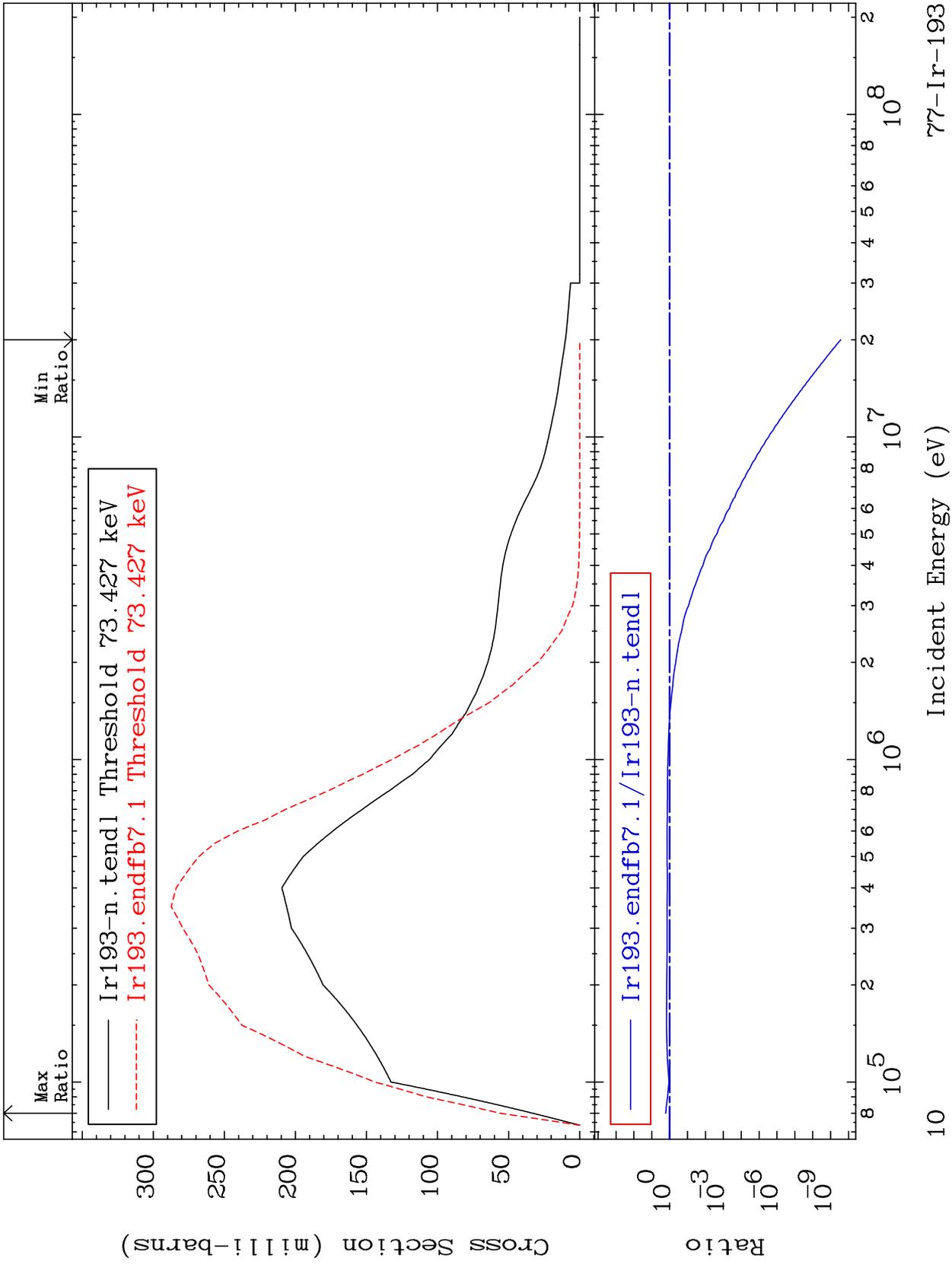
<sup>77</sup>Ir-<sup>193</sup>  
-99.99 To -75.66%



MAT 7731

73.05 keV (n,n') Level  
Cross Section

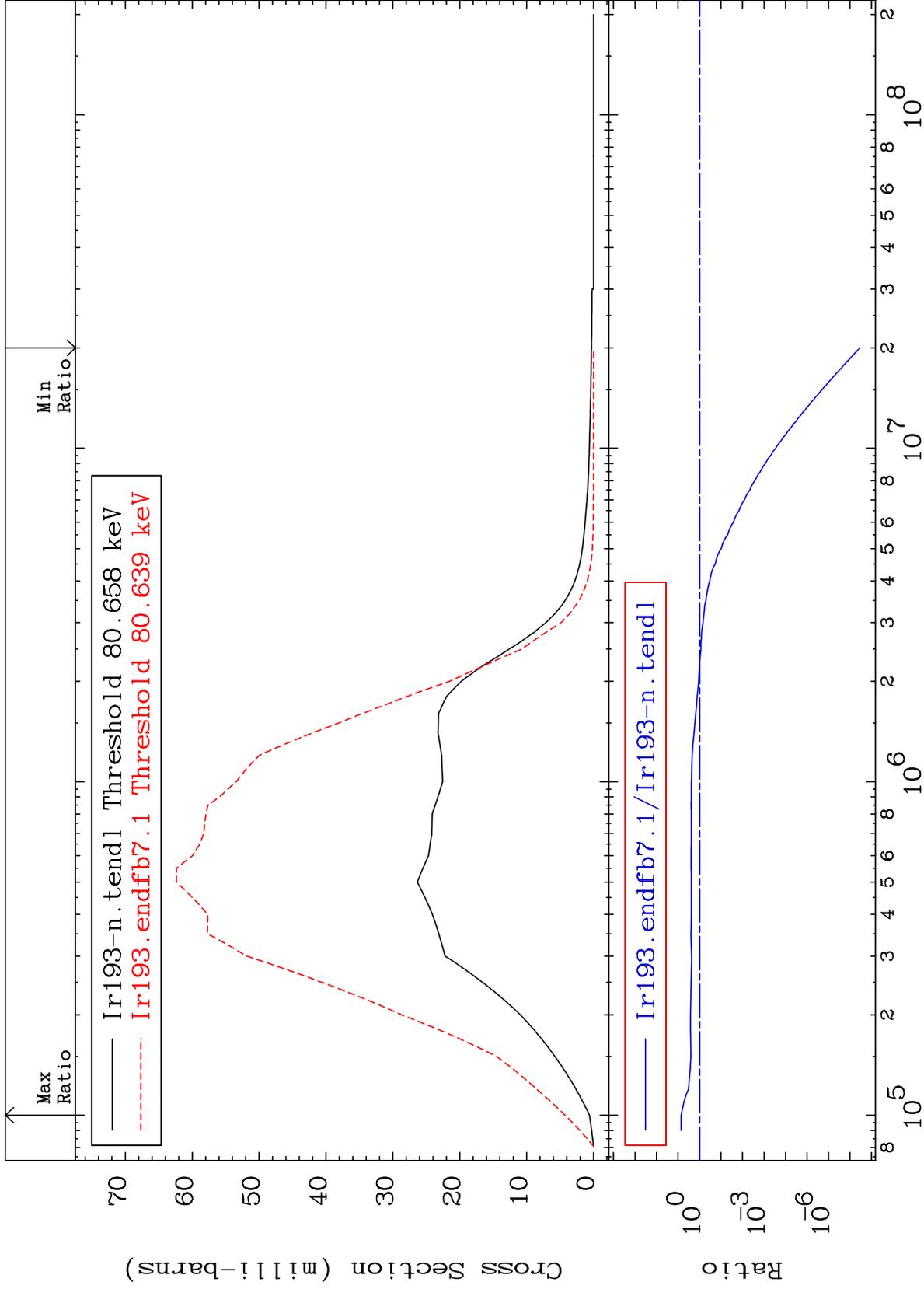
<sup>77</sup>Ir-<sup>193</sup>Ir  
-100.0 To 70.19 %



MAT 7731

80.24 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>Ir  
-100.0 To 610.8 %

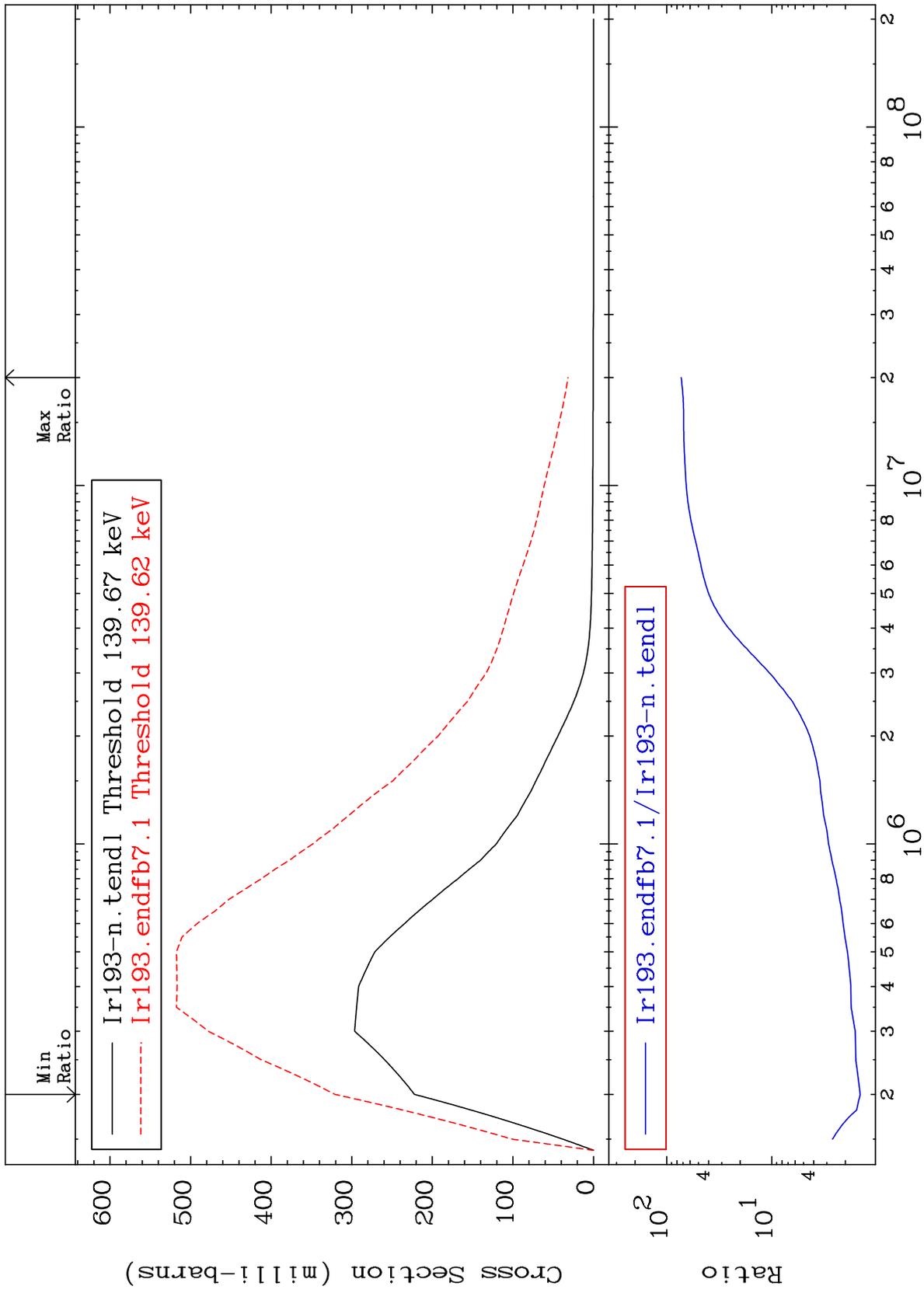


11

Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>Ir

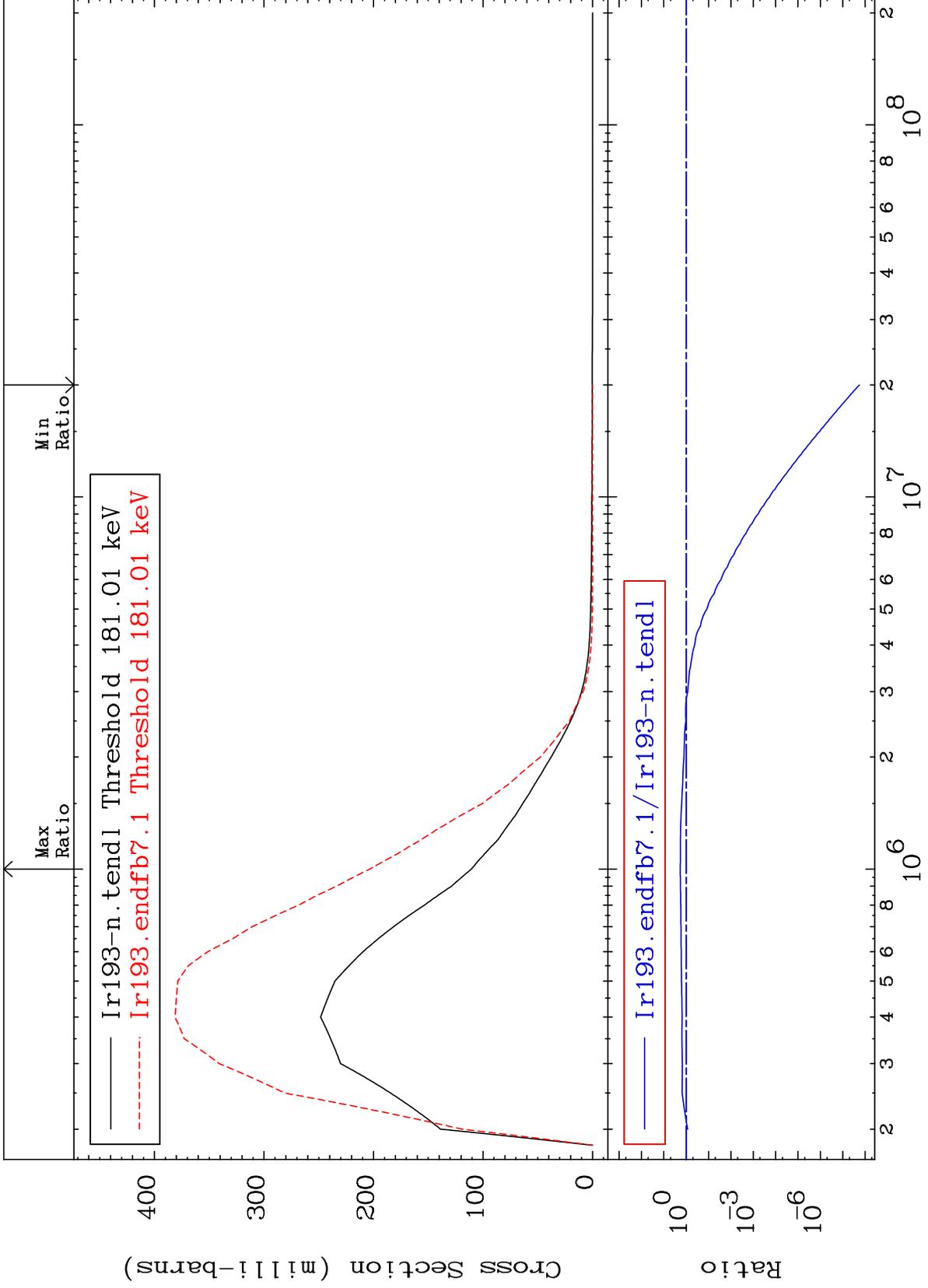
MAT 7731      138.9 keV (n,n') Level      77-Ir-193  
 Cross Section      44.40 To 7186. %



MAT 7731

180.1 keV (n,n') Level  
Cross Section

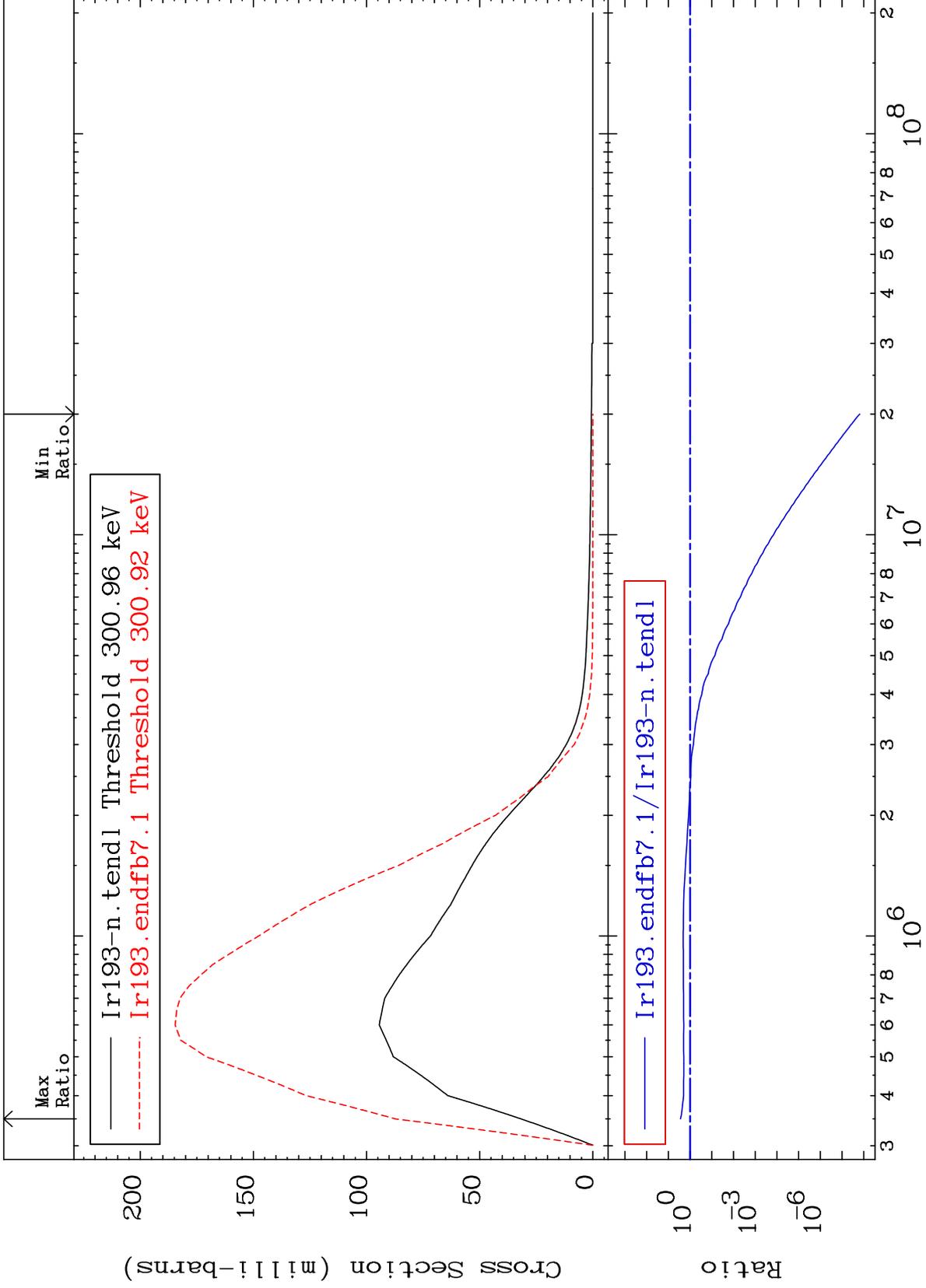
<sup>77</sup>Ir-<sup>193</sup>  
-100.0 To 83.89 %



MAT 7731

299.4 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>  
-100.0 To 174.9 %



14

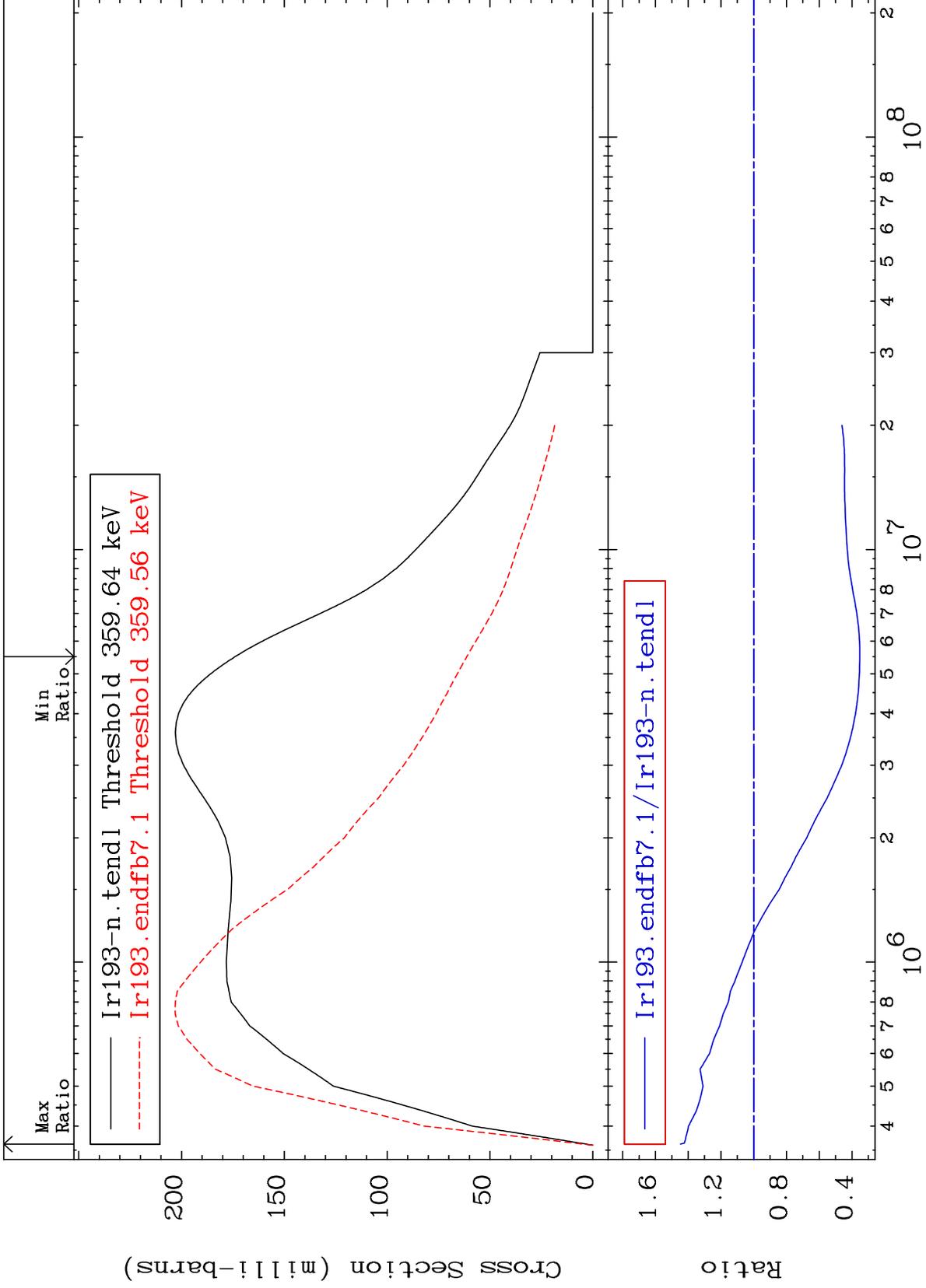
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>

MAT 7731

357.8 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>  
-64.78 To 44.69 %

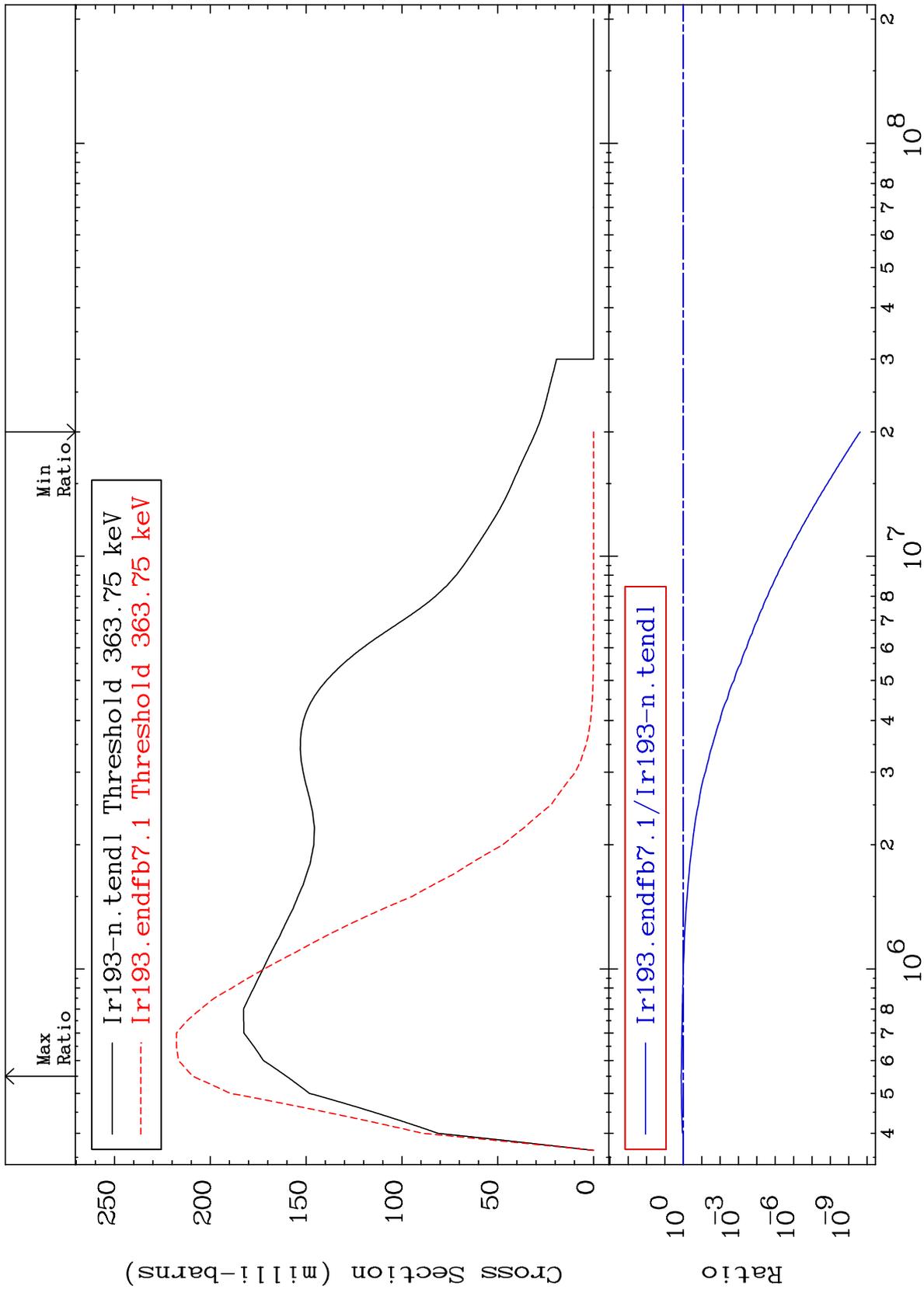


15

Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>

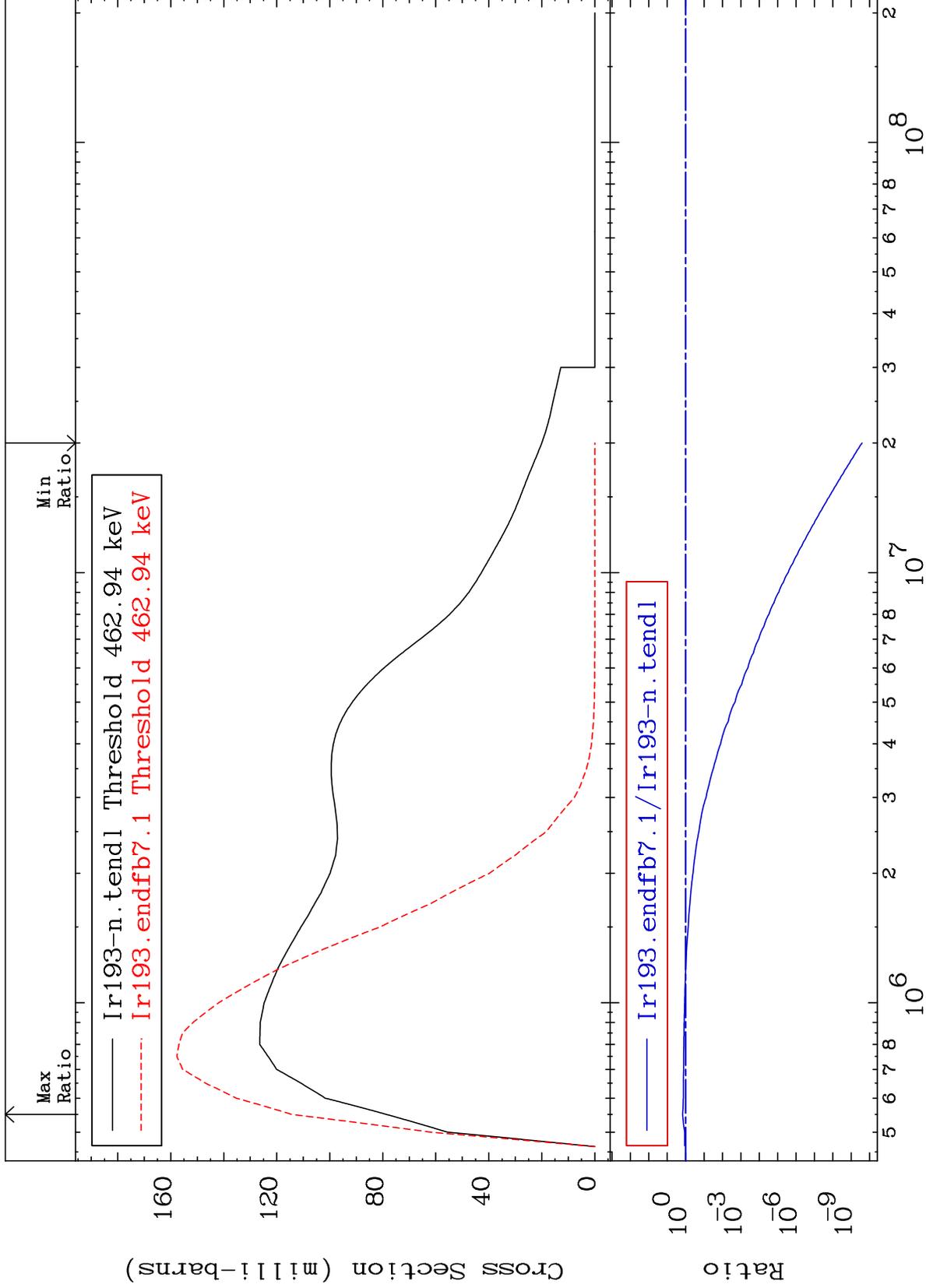
MAT 7731      361.9 keV (n,n') Level      77-Ir-193  
 Cross Section      -100.0 To 30.55 %



MAT 7731

460.5 keV (n,n') Level  
Cross Section

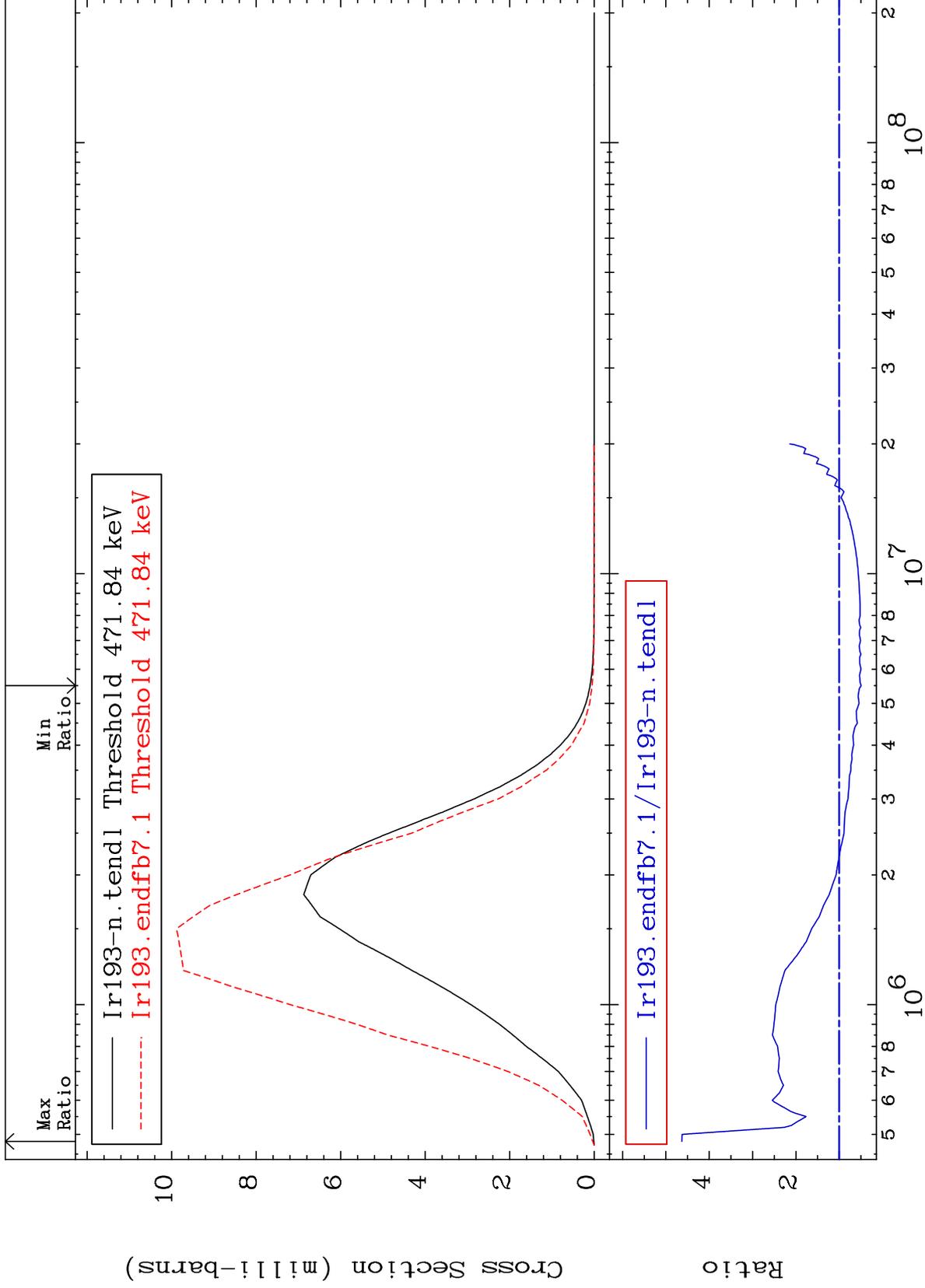
<sup>77</sup>Ir-<sup>193</sup>Ir  
-100.0 To 45.45 %



MAT 7731

469.4 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>  
-50.46 To 363.0 %



18

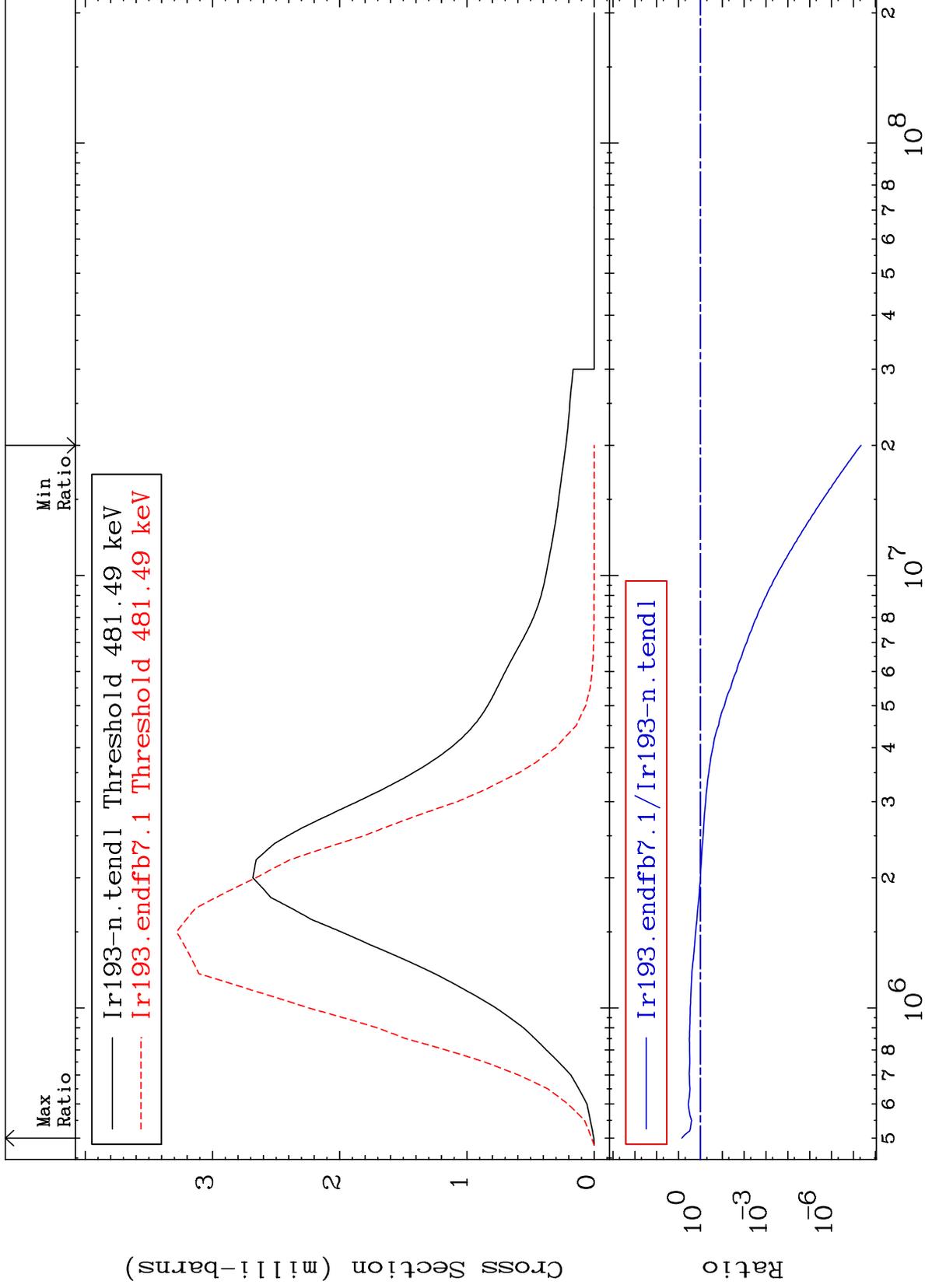
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>

MAT 7731

479.0 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>Ir  
-100.0 To 602.5 %



19

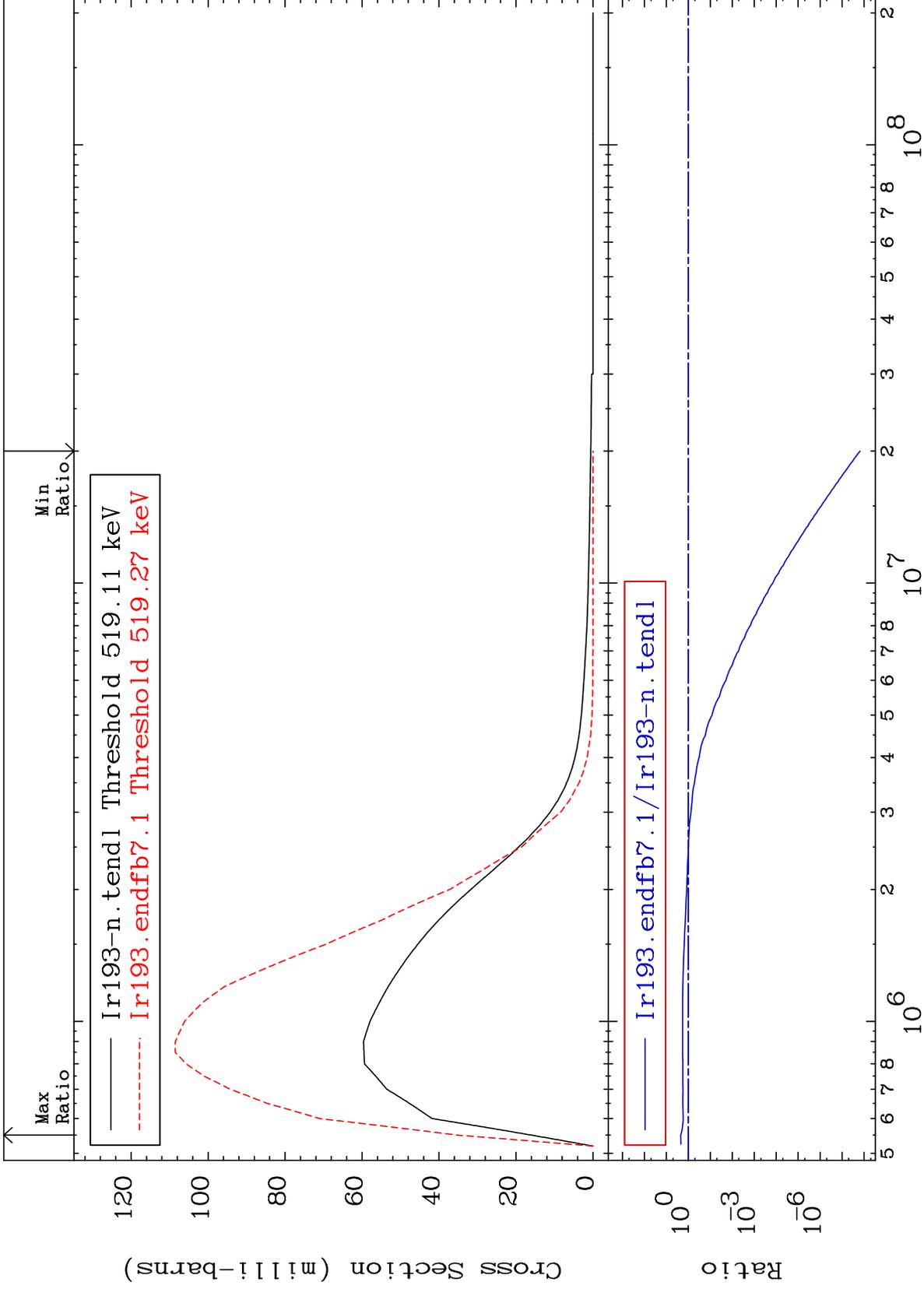
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>Ir

MAT 7731

516.4 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>Ir  
-100.0 To 120.5 %



20

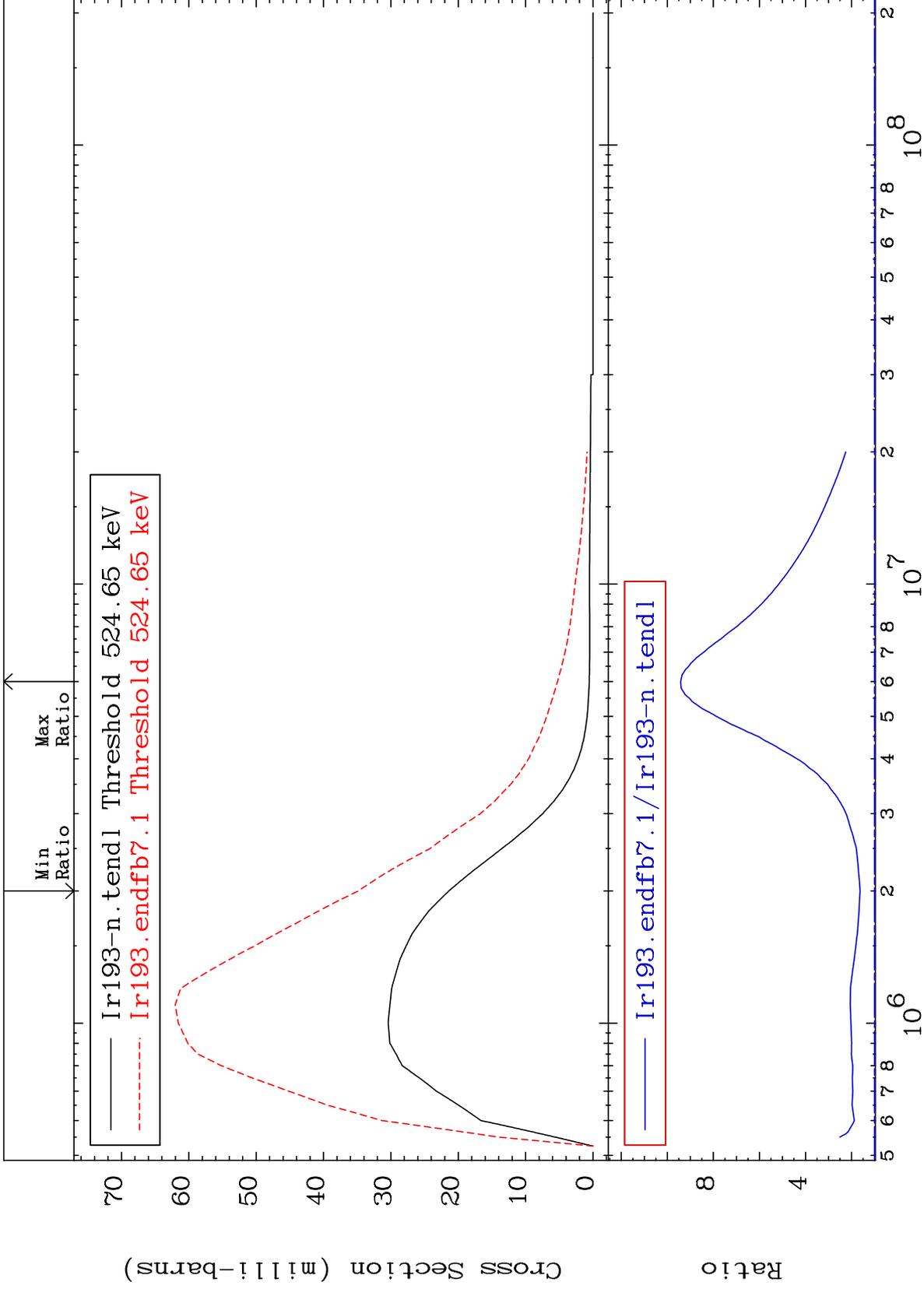
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>Ir

MAT 7731

521.9 keV (n,n') Level  
Cross Section

77-Ir-193  
62.84 To 841.7 %



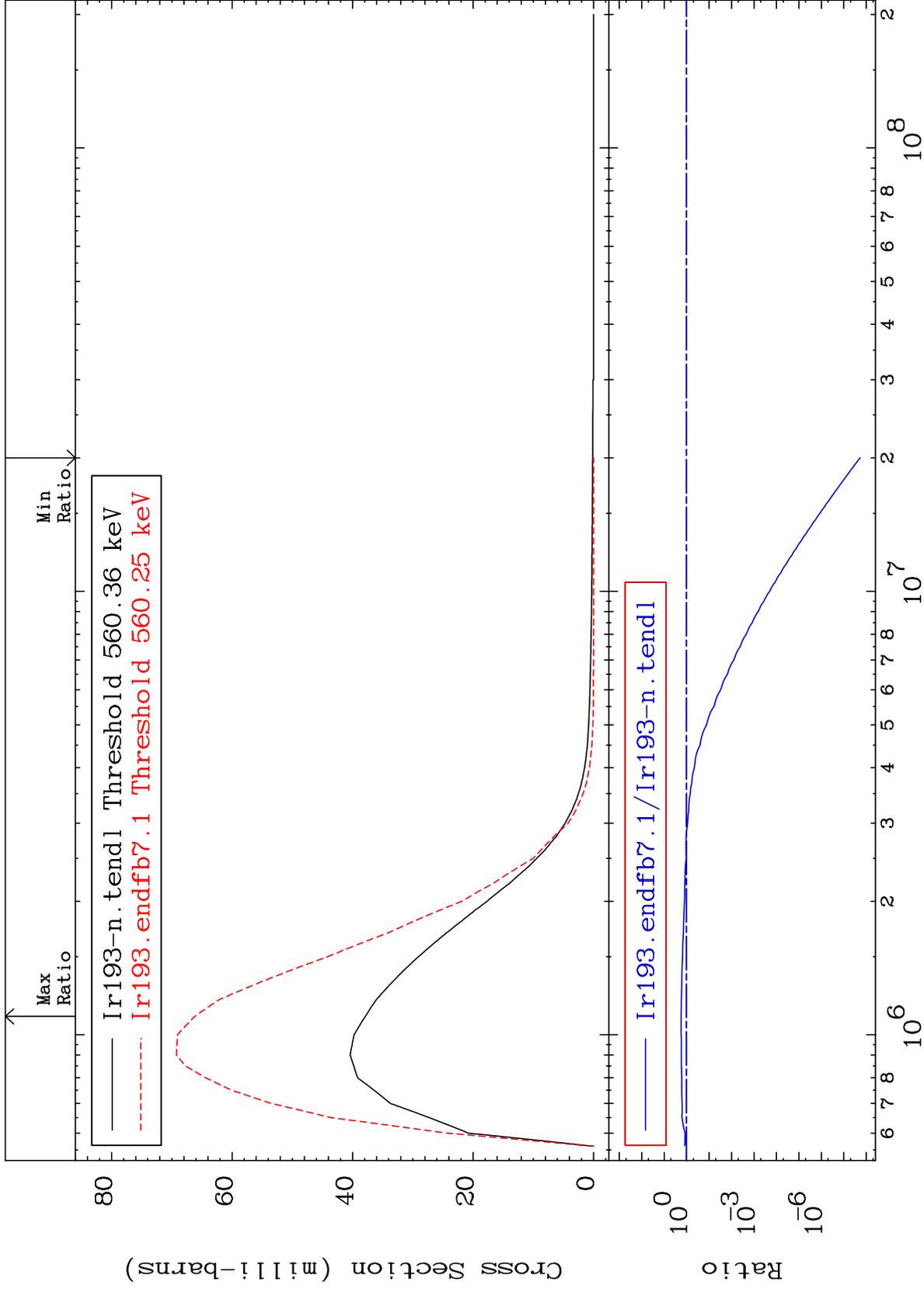
21

77-Ir-193

MAT 7731

557.4 keV (n,n') Level  
Cross Section

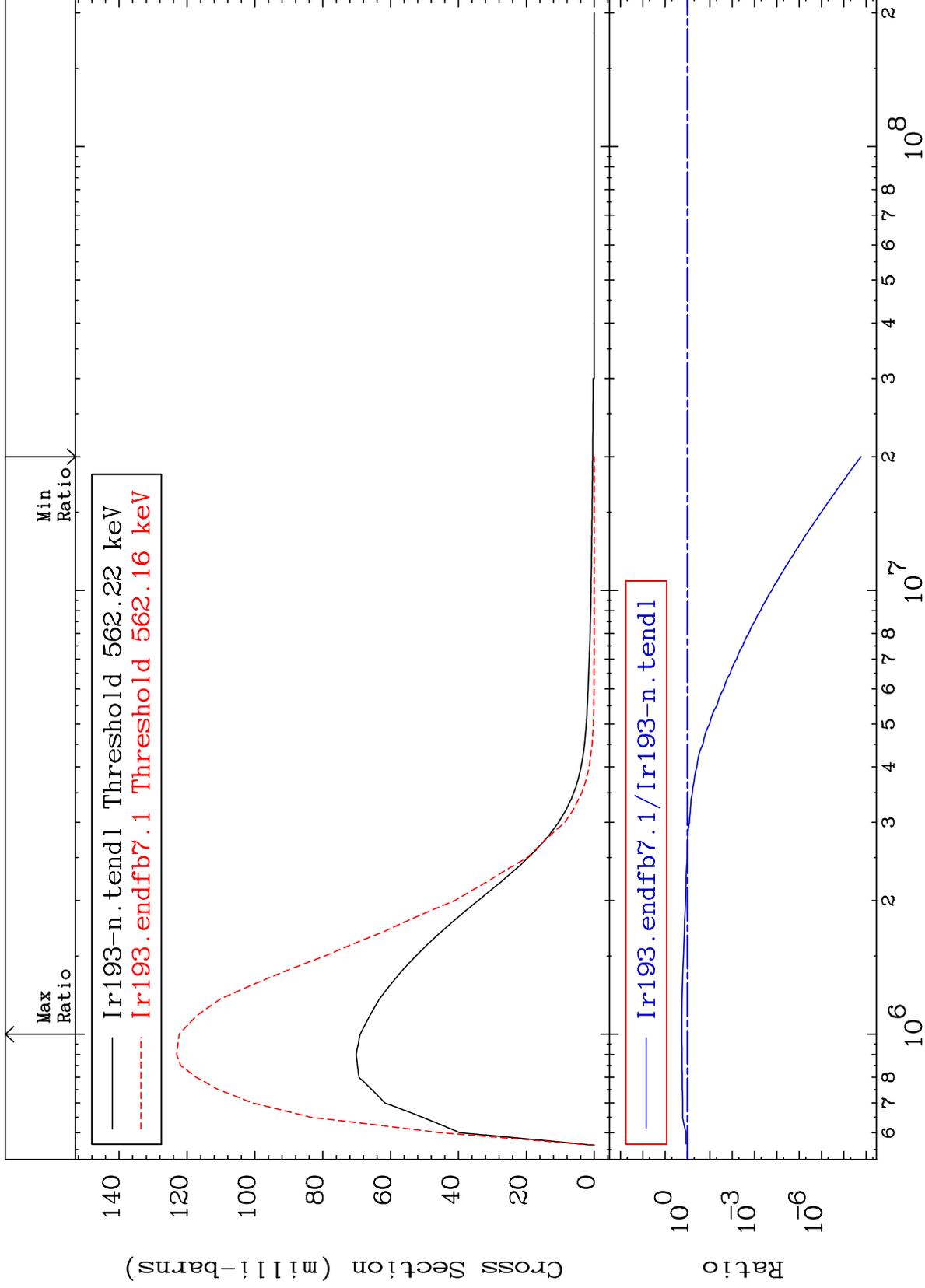
<sup>77</sup>Ir-<sup>193</sup>  
-100.0 To 74.68 %



MAT 7731

559.3 keV (n,n') Level  
Cross Section

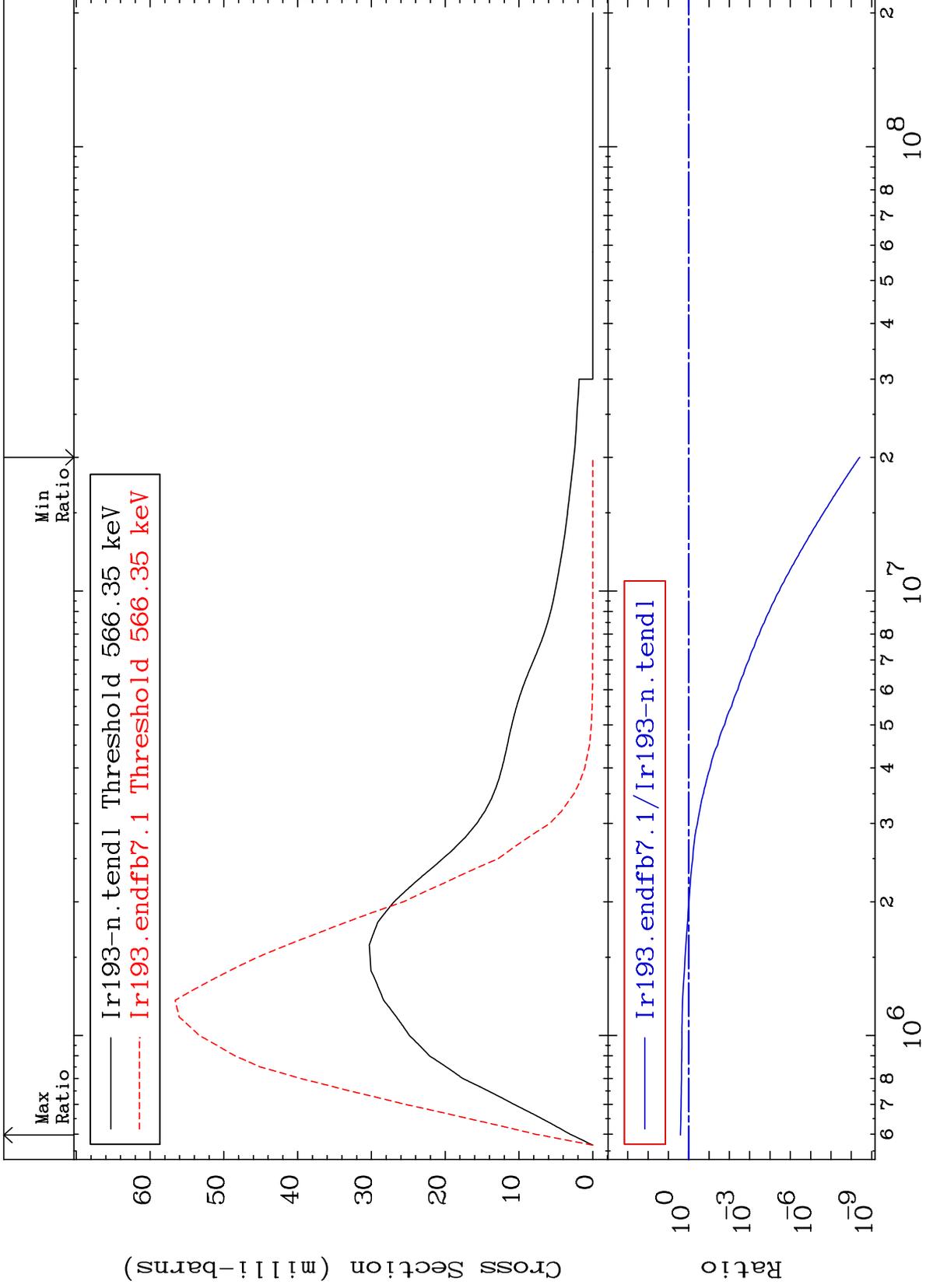
<sup>77</sup>Ir-<sup>193</sup>  
-100.0 To 77.33 %



MAT 7731

563.4 keV (n,n') Level  
Cross Section

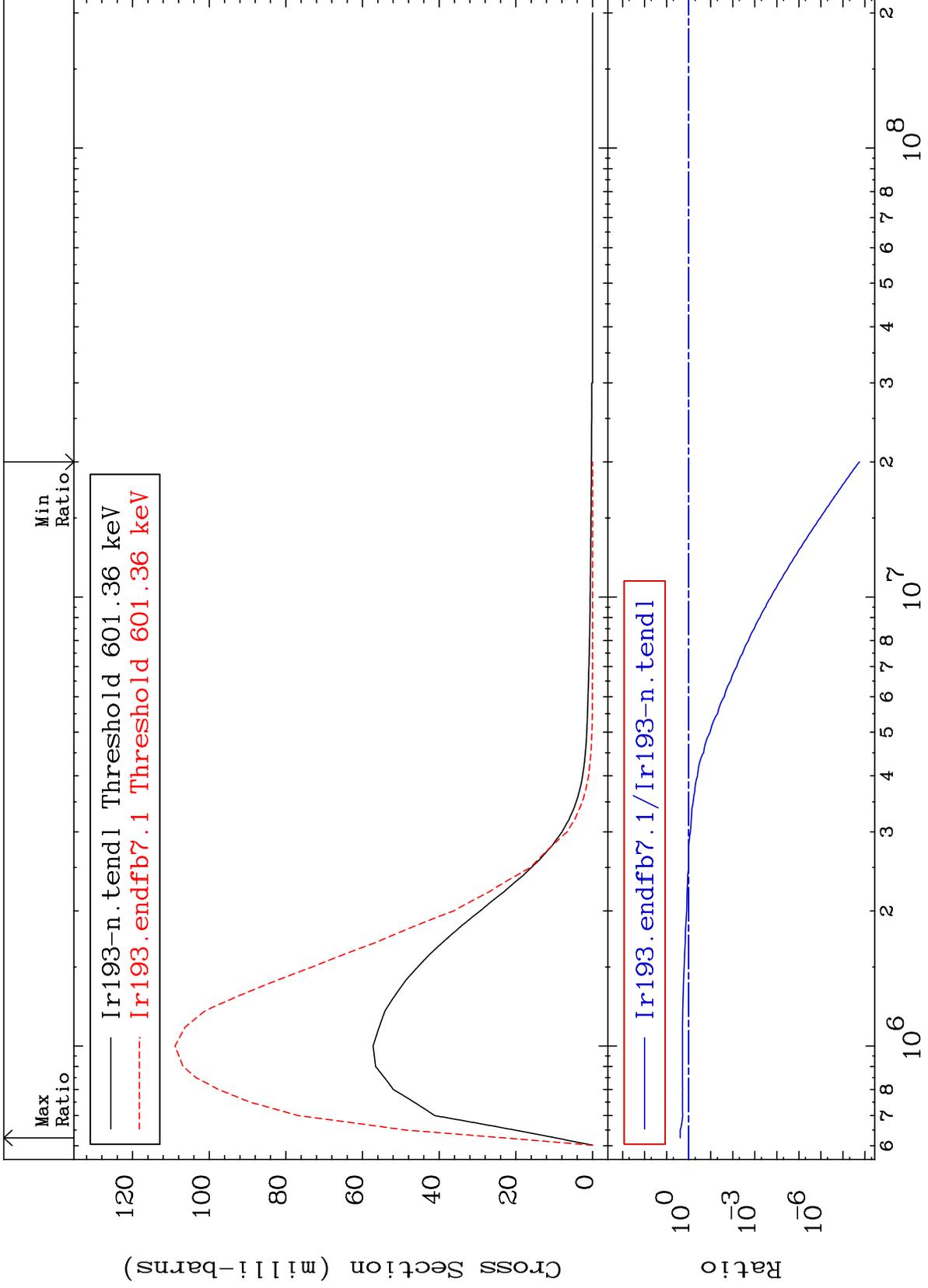
<sup>77</sup>Ir-<sup>193</sup>  
-100.0 To 152.4 %



MAT 7731

598.2 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>  
-100.0 To 140.4 %



25

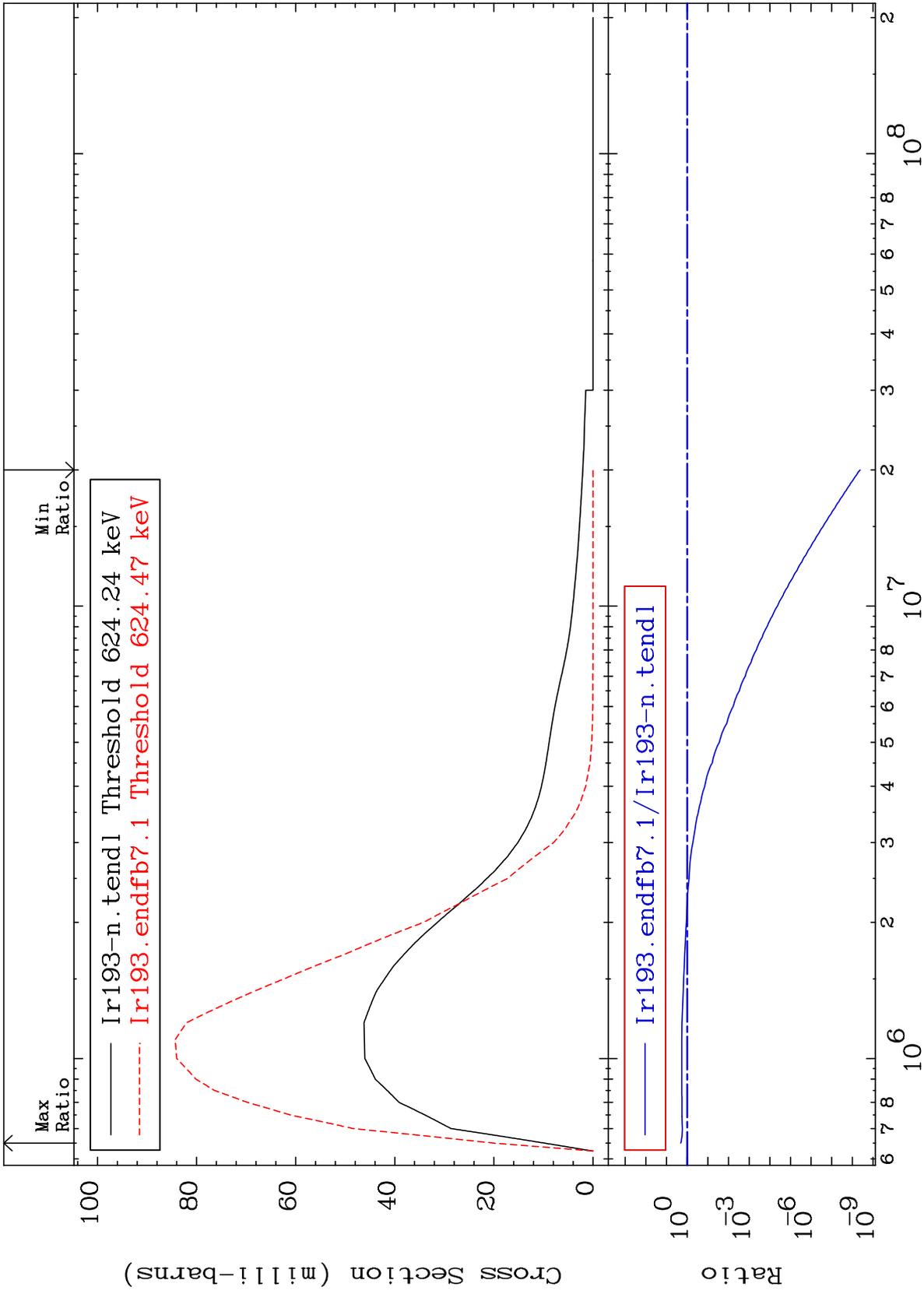
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>

MAT 7731

621.0 keV (n,n') Level  
Cross Section

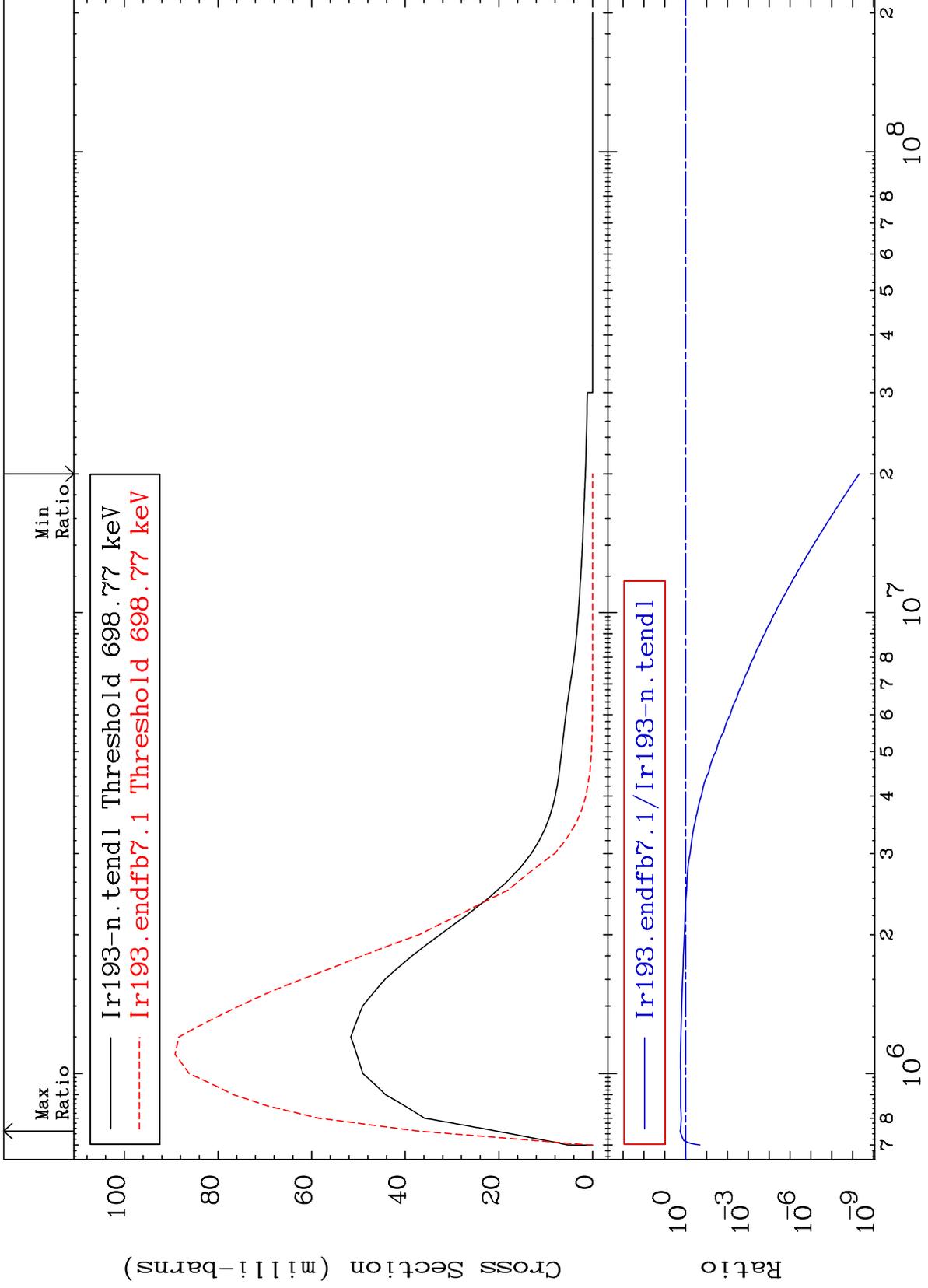
<sup>77</sup>Ir-<sup>193</sup>Ir  
-100.0 To 104.5 %



MAT 7731

695.1 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>  
-100.0 To 81.25 %



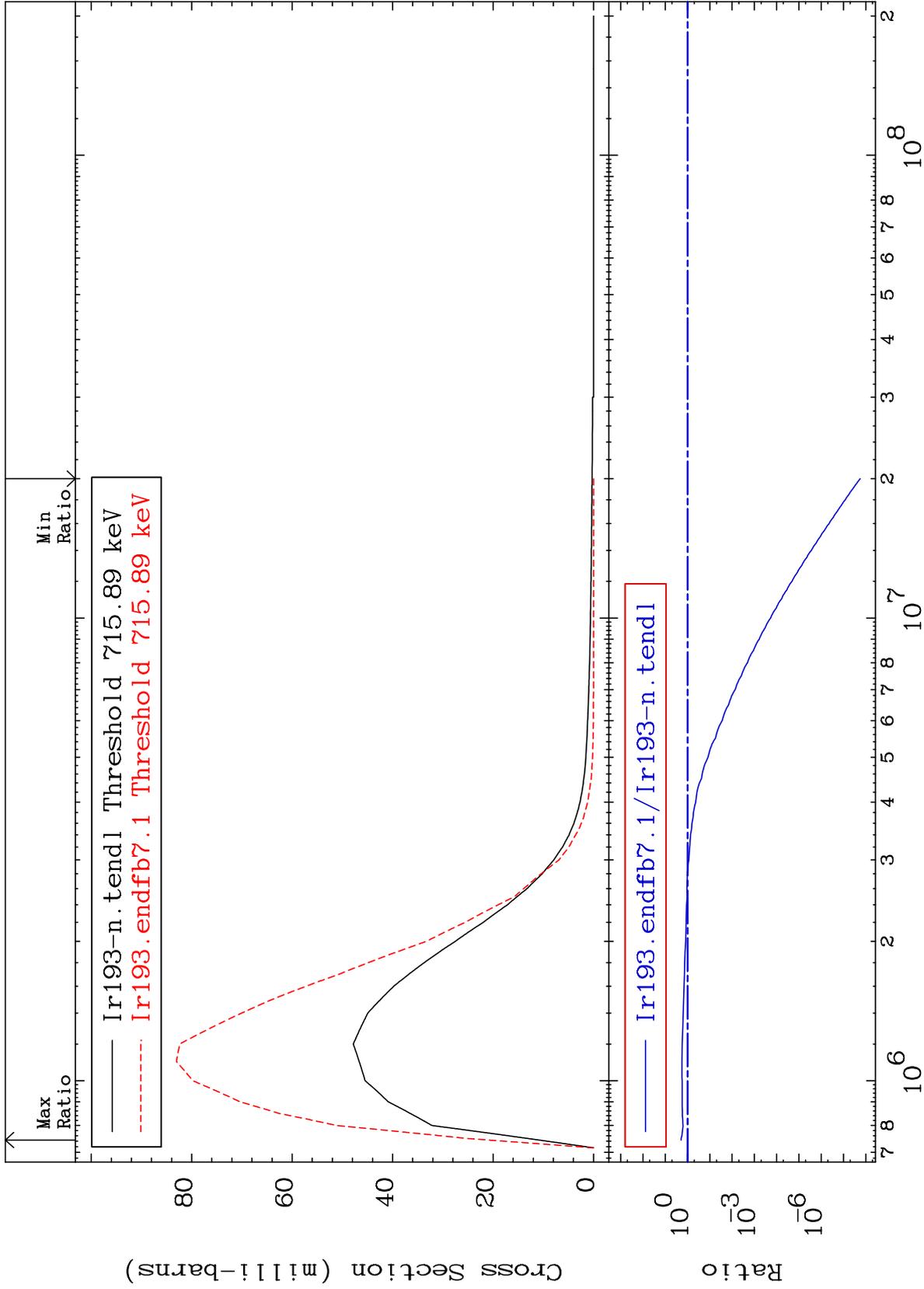
MAT 7731

712.2 keV (n,n') Level

<sup>77</sup>Ir-<sup>193</sup>

Cross Section

-100.0 To 92.51 %



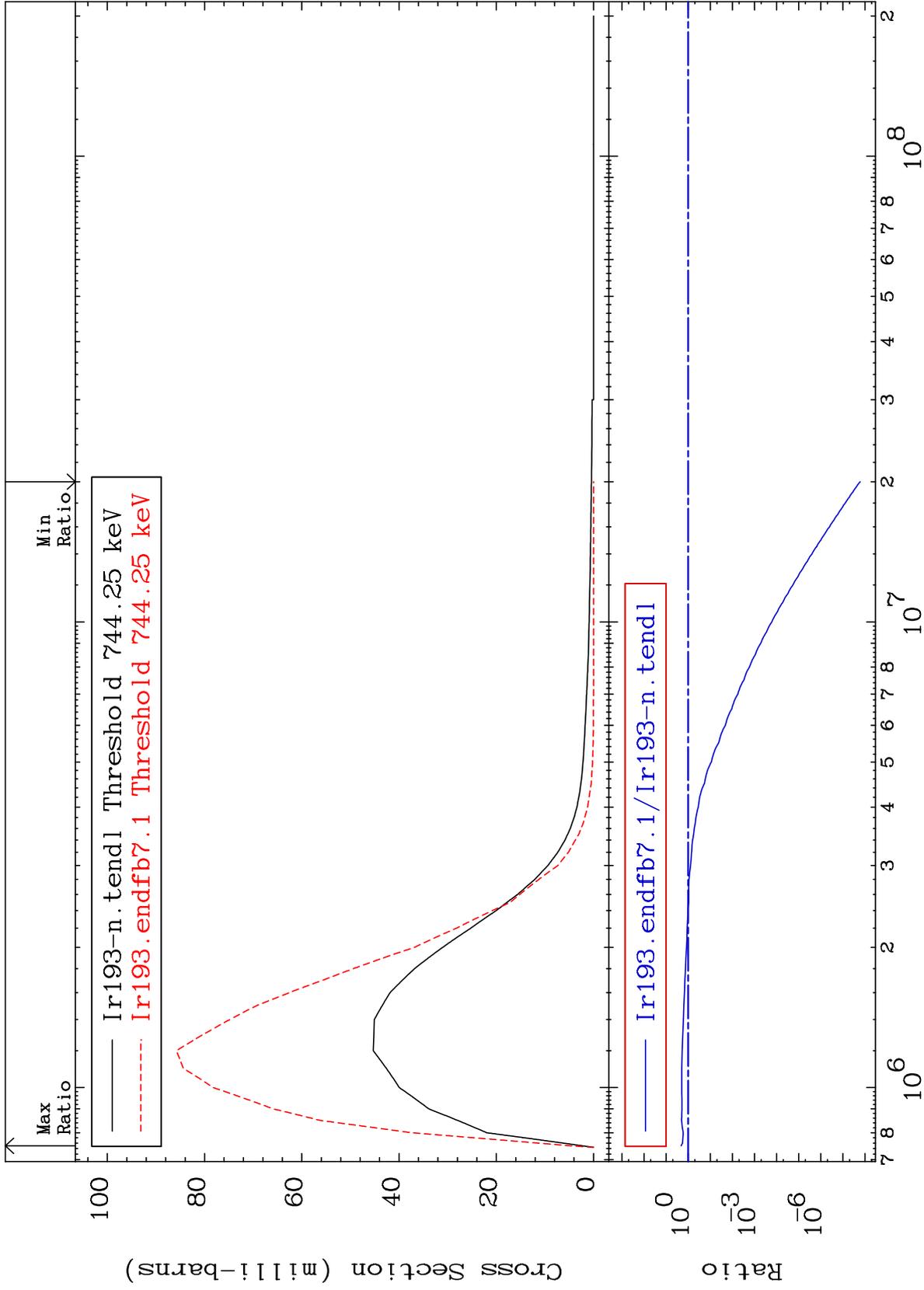
MAT 7731

740.4 keV (n,n') Level

<sup>77</sup>Ir-<sup>193</sup>

Cross Section

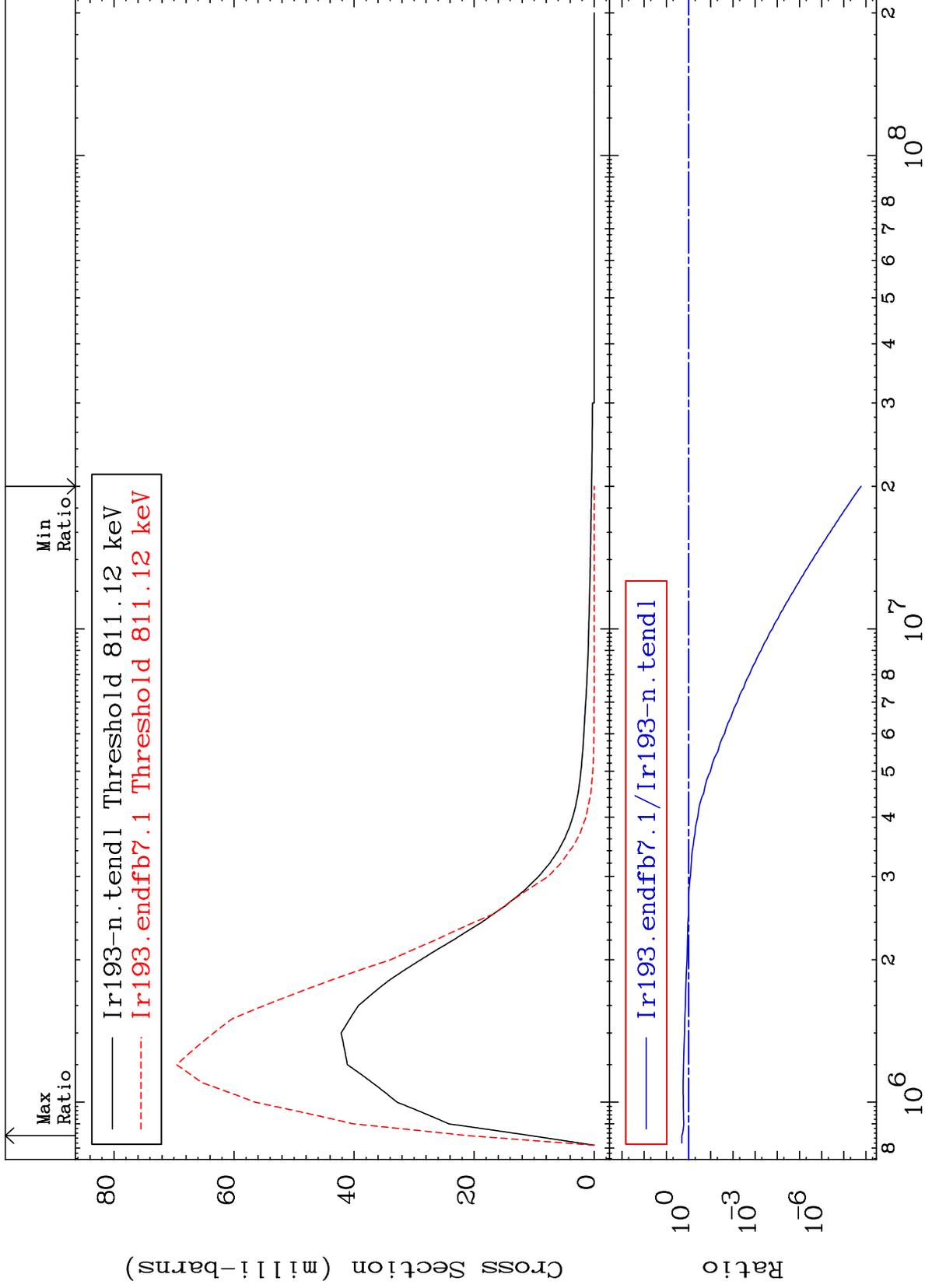
-100.0 To 109.6 %



MAT 7731

806.9 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>  
-100.0 To 99.38 %



30

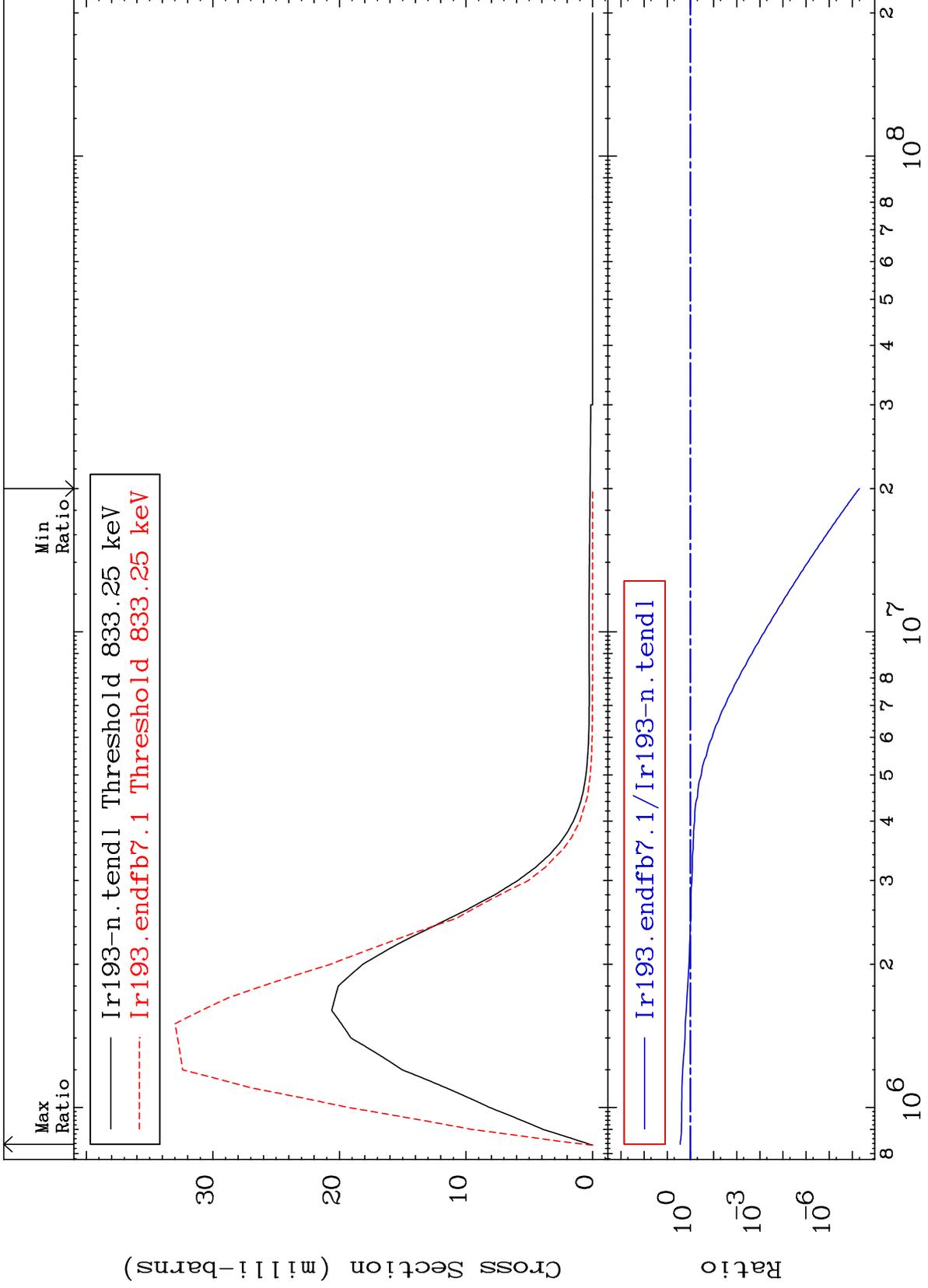
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>

MAT 7731

828.9 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>Ir  
-100.0 To 173.9 %



31

<sup>77</sup>Ir-<sup>193</sup>Ir

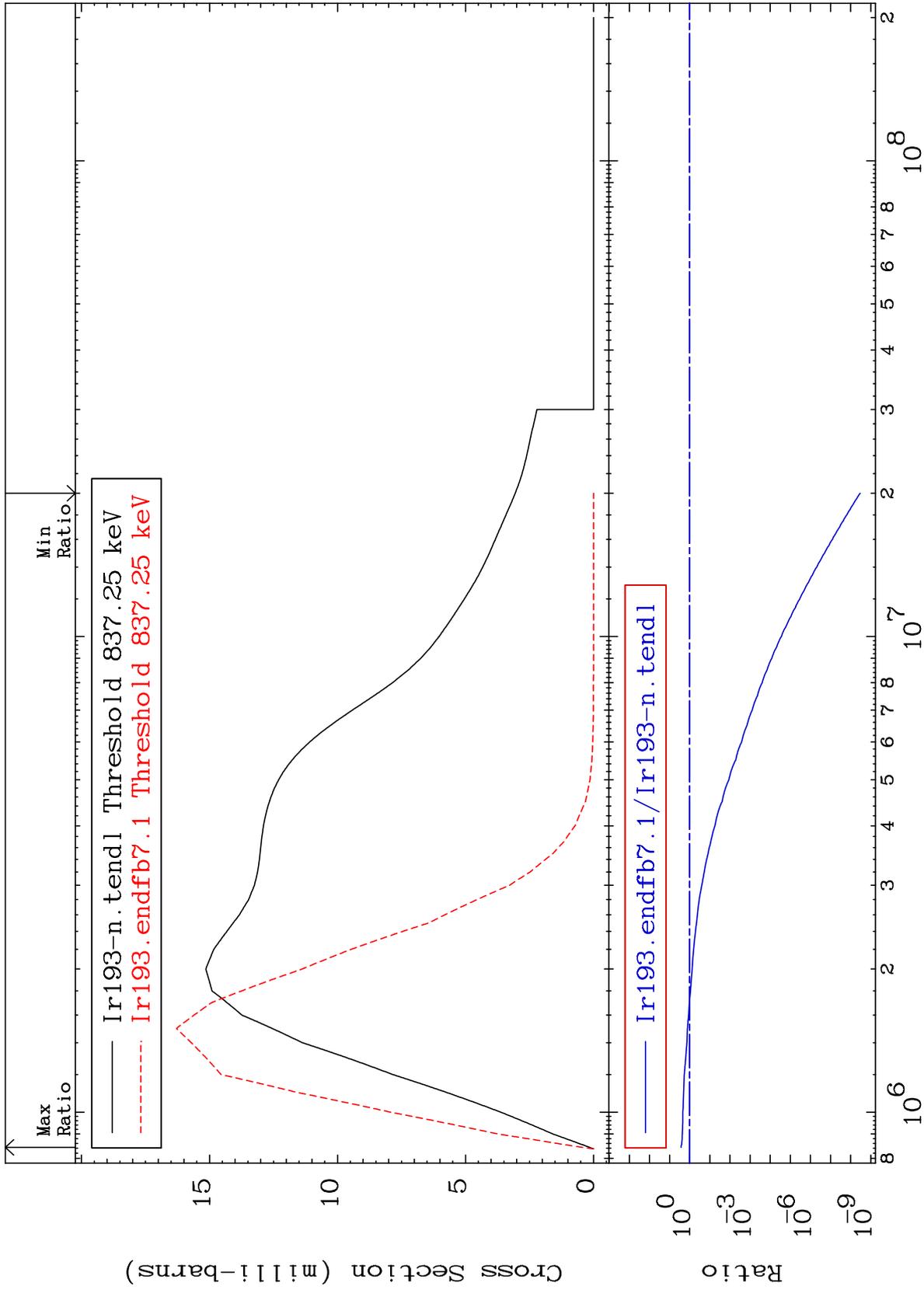
MAT 7731

832.9 keV (n,n') Level

<sup>77</sup>Ir-<sup>193</sup>

-100.0 To 165.9 %

Cross Section



32

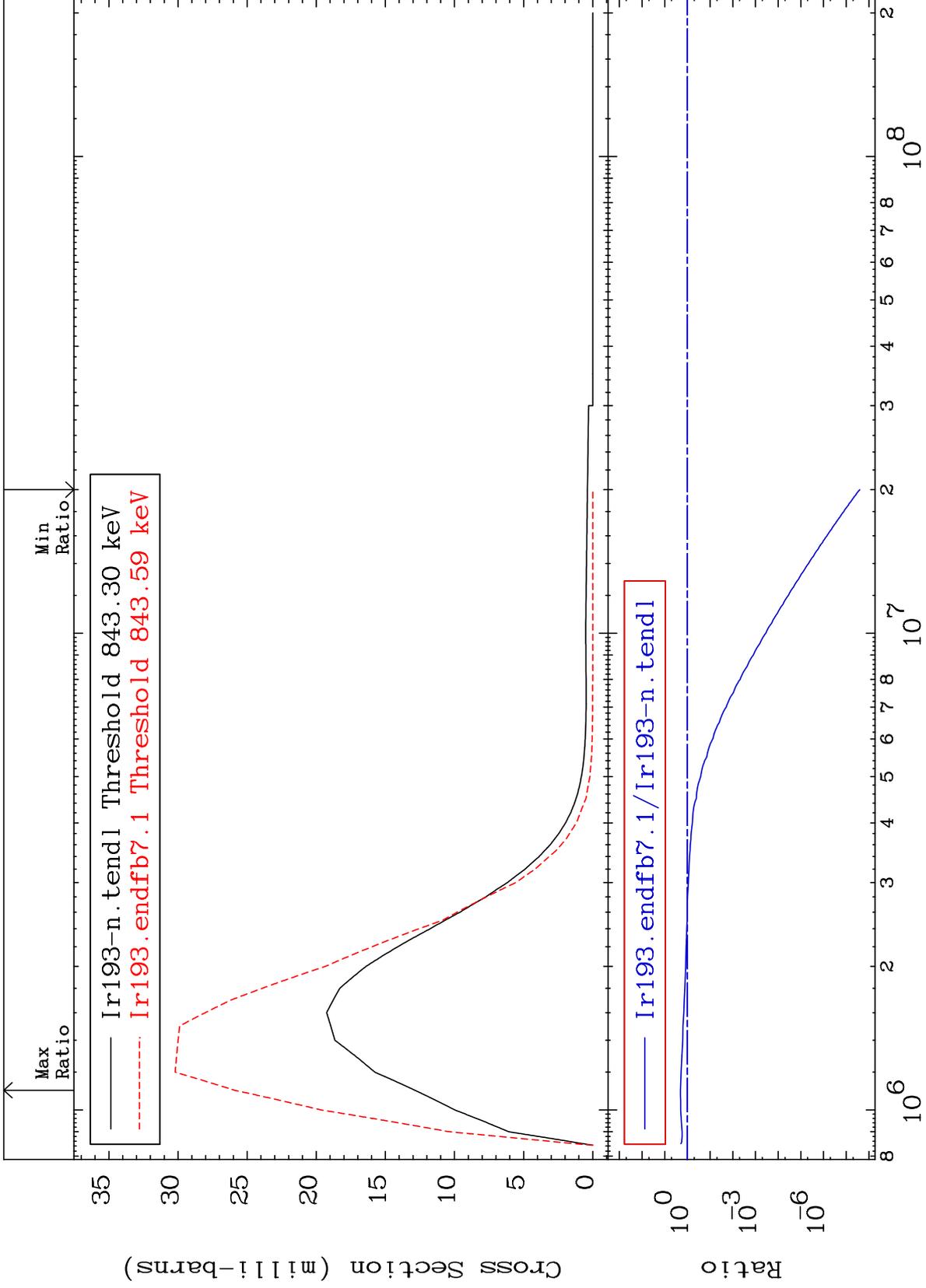
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>

MAT 7731

838.9 keV (n,n') Level  
Cross Section

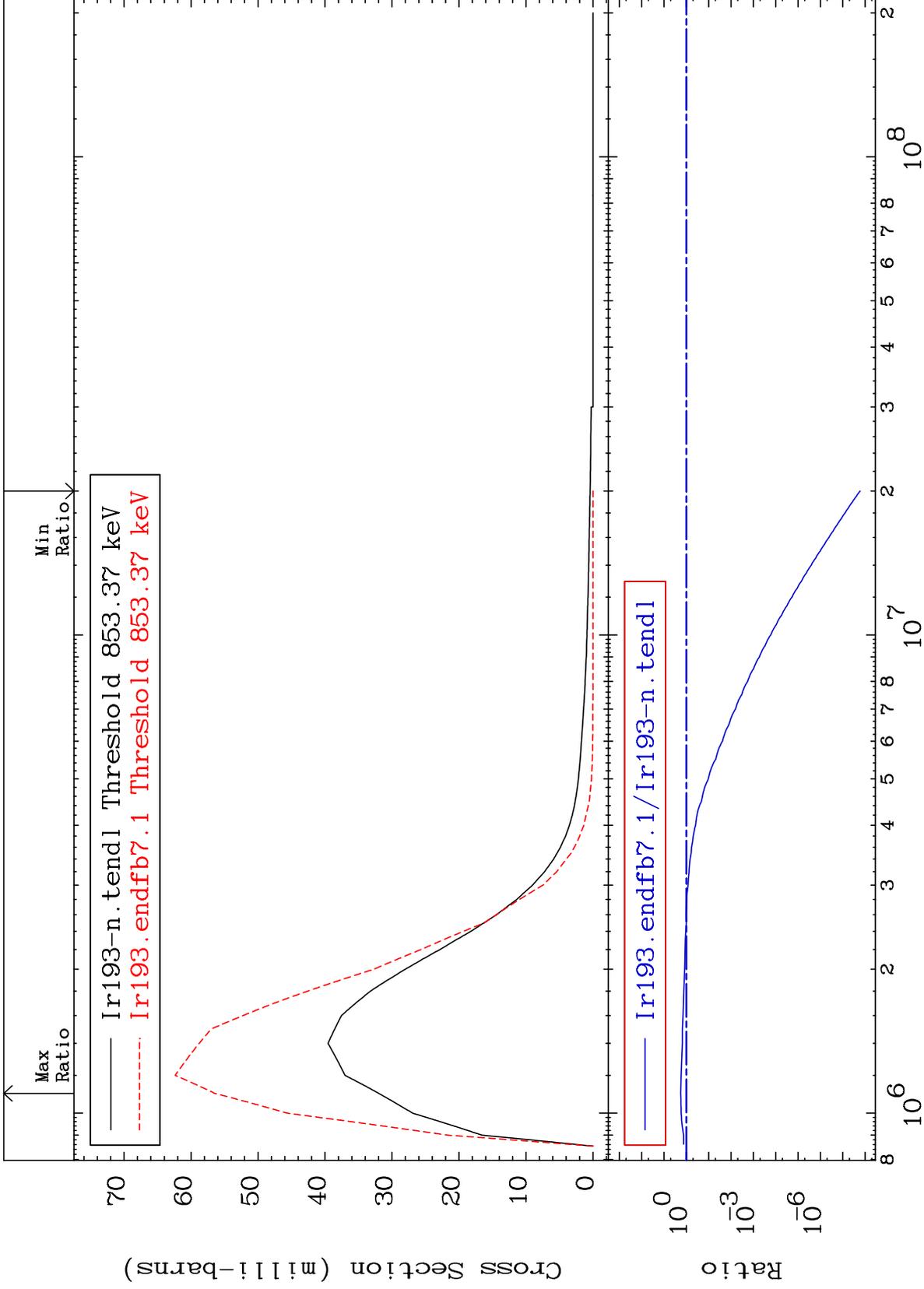
<sup>77</sup>Ir-<sup>193</sup>Ir  
-100.0 To 101.4 %



MAT 7731

848.9 keV (n,n') Level  
Cross Section

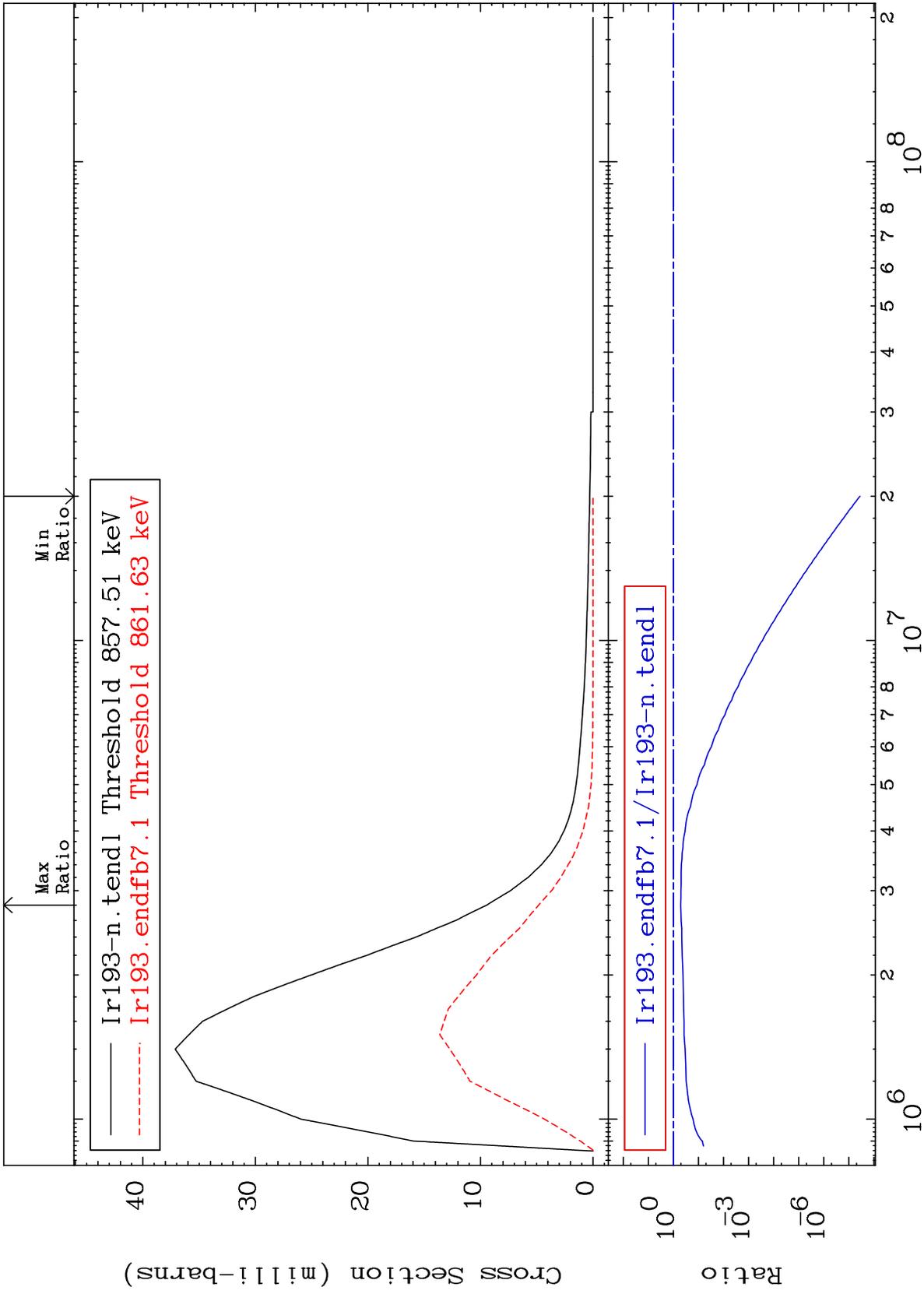
<sup>77</sup>Ir-<sup>193</sup>Ir  
-100.0 To 76.50 %



MAT 7731

853.1 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>Ir  
-100.0 To -48.87%



35

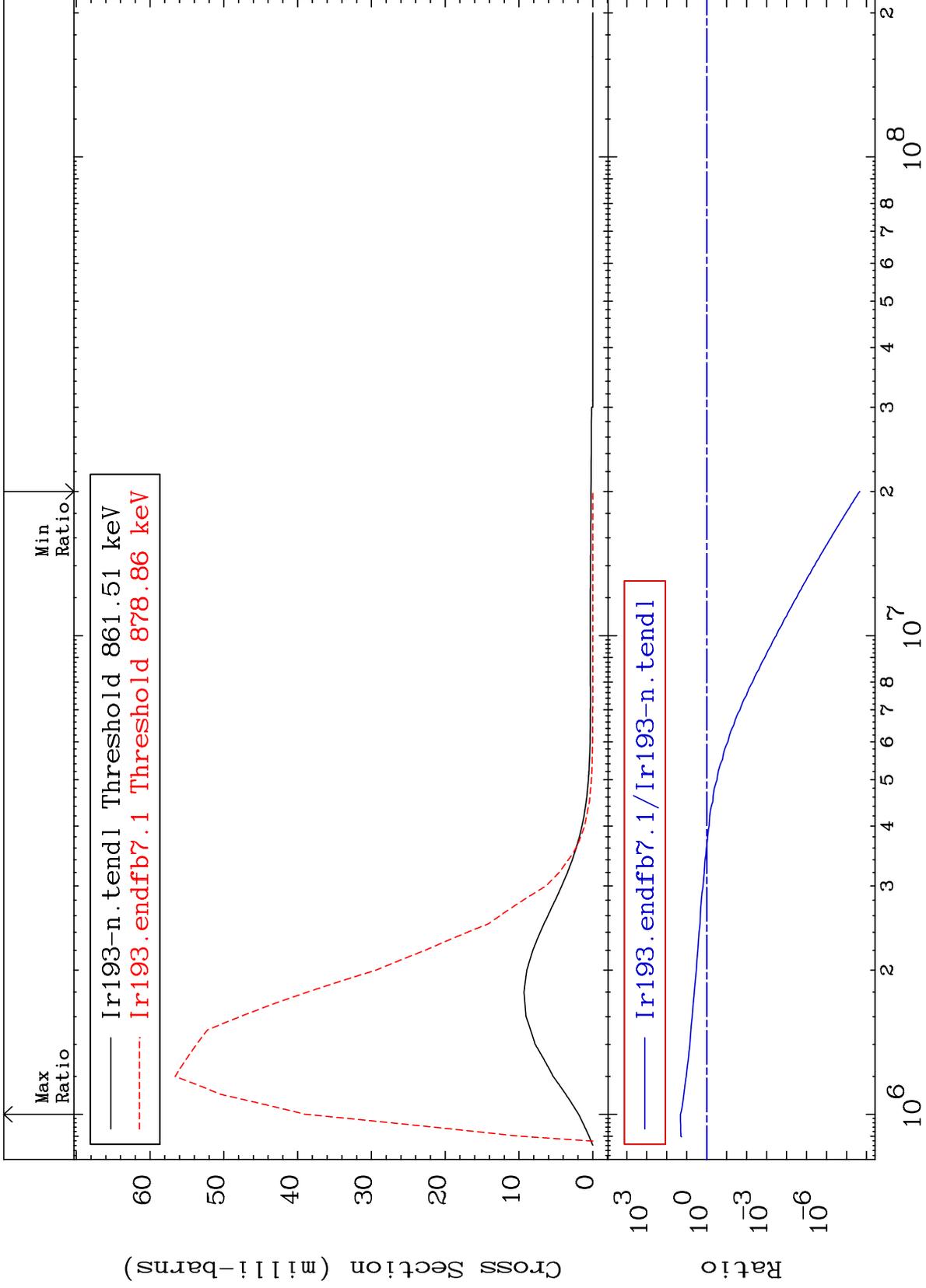
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>Ir

MAT 7731

857.0 keV (n,n') Level  
Cross Section

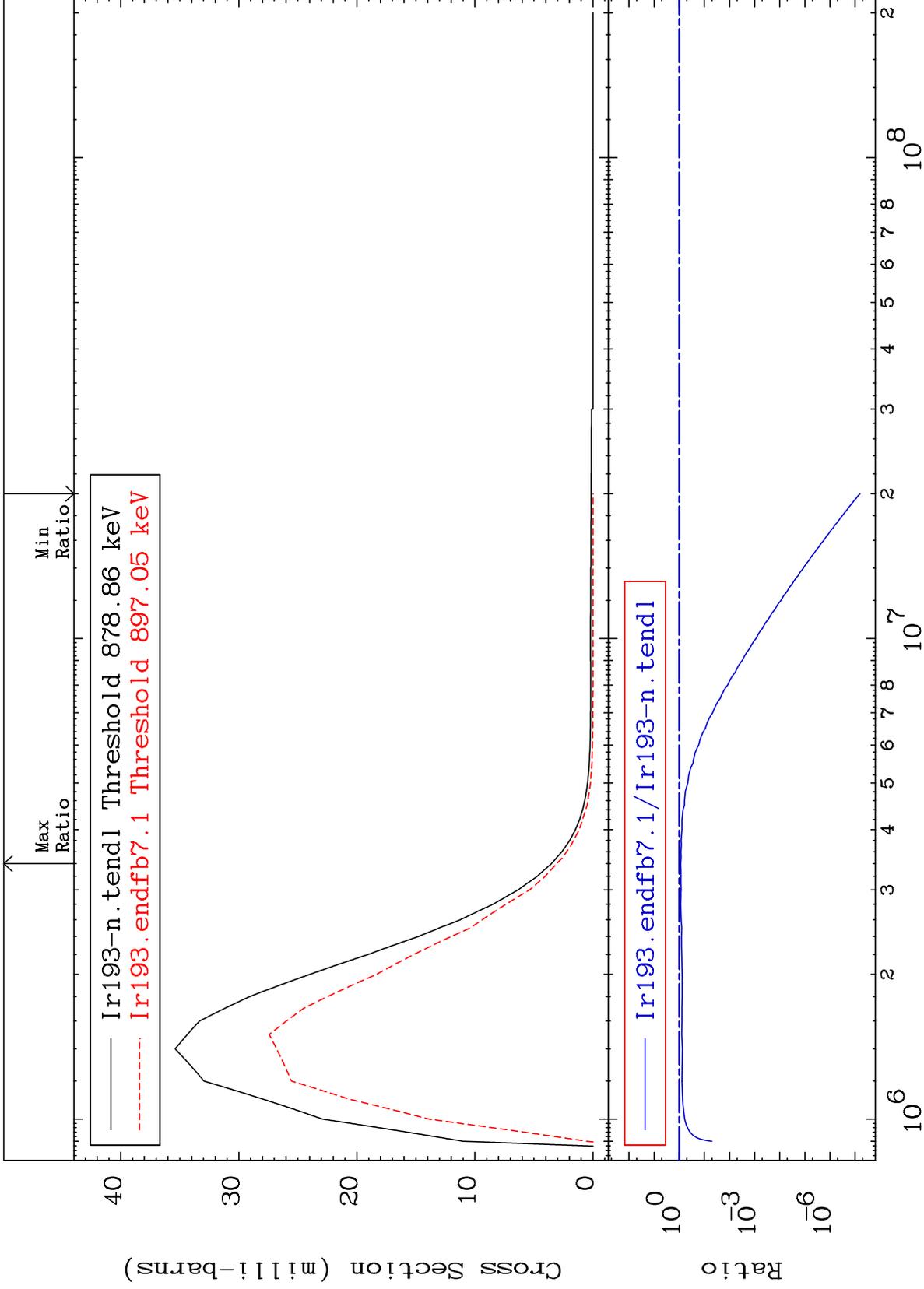
<sup>77</sup>Ir-193  
-100.0 To 1937. %



MAT 7731

874.3 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>Ir  
-100.0 To -12.81%



37

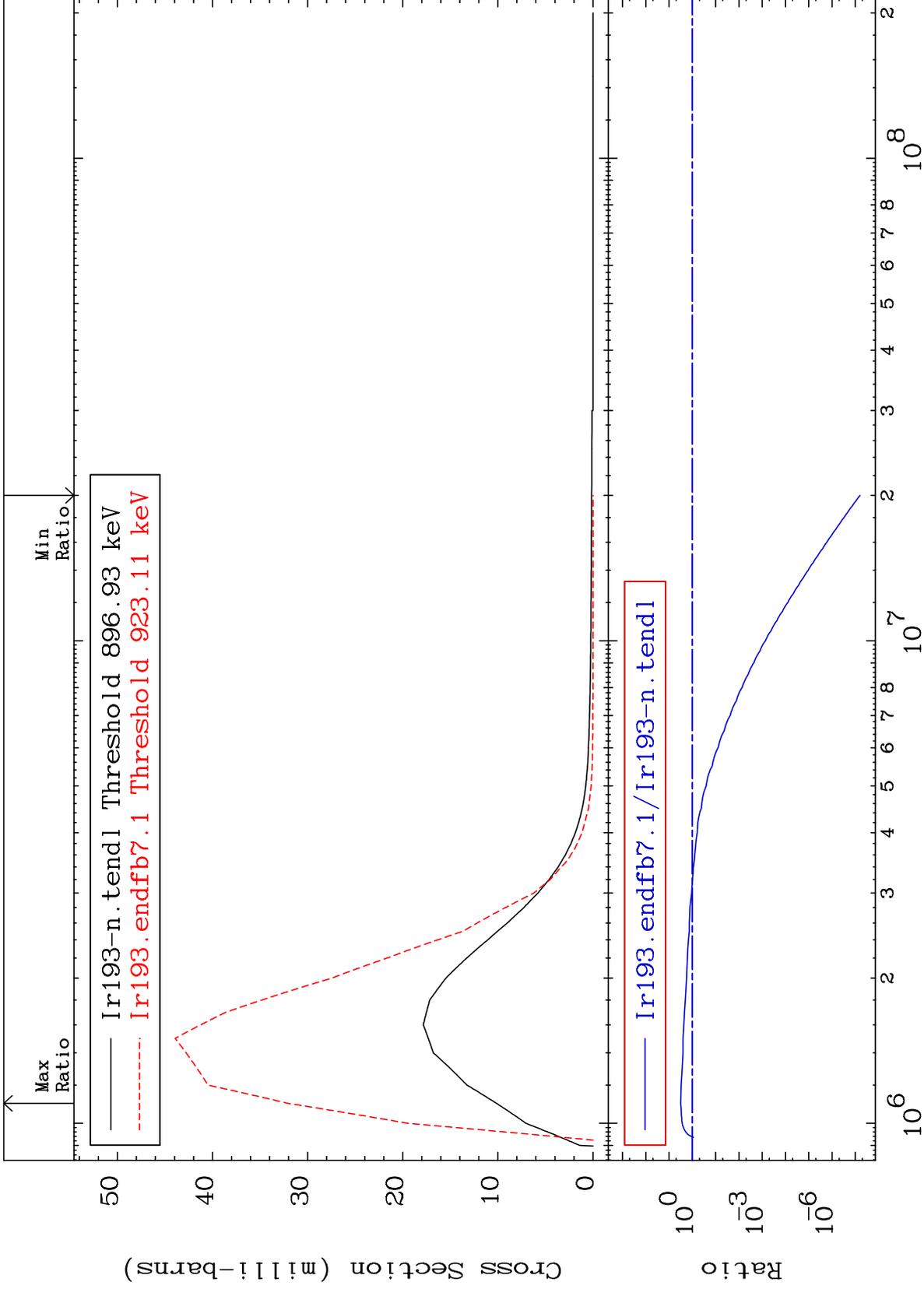
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>Ir

MAT 7731

892.3 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>  
-100.0 To 216.0 %



38

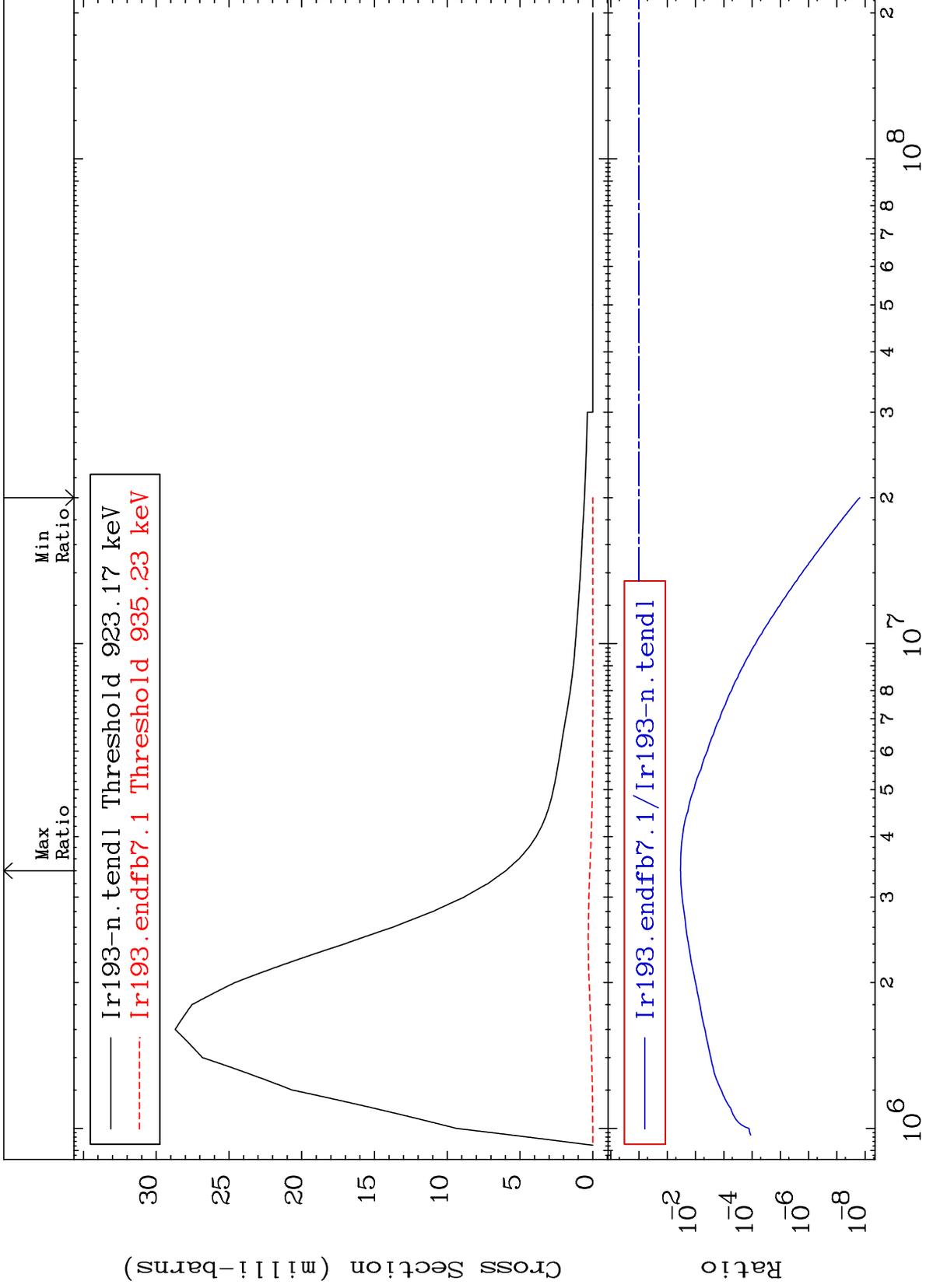
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>

MAT 7731

918.4 keV (n,n') Level  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>  
-100.0 To -96.60%



39

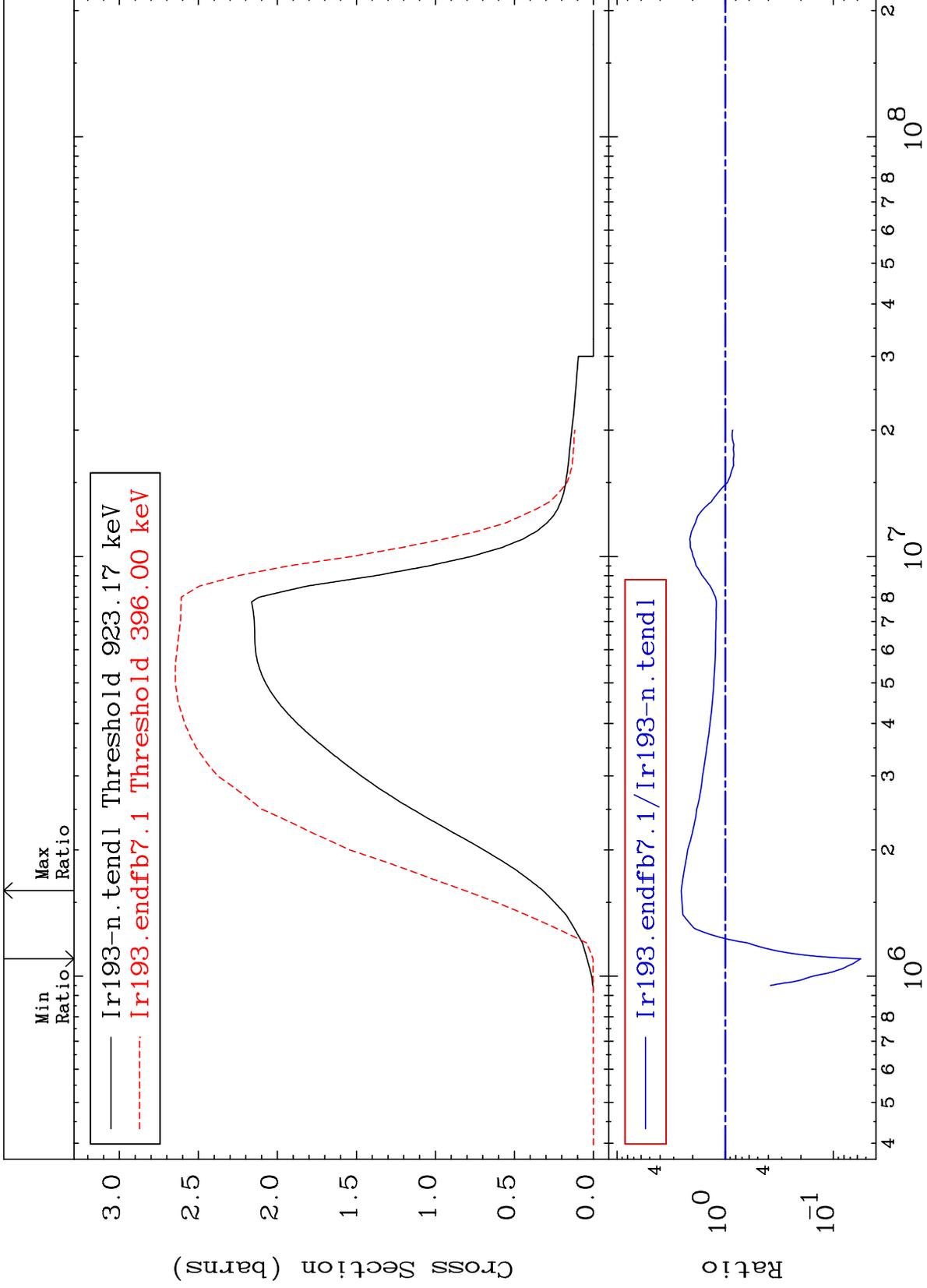
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>

MAT 7731

(n, n') Continuum  
Cross Section

<sup>77</sup>Ir-<sup>193</sup>  
-94.41 To 154.9 %



40

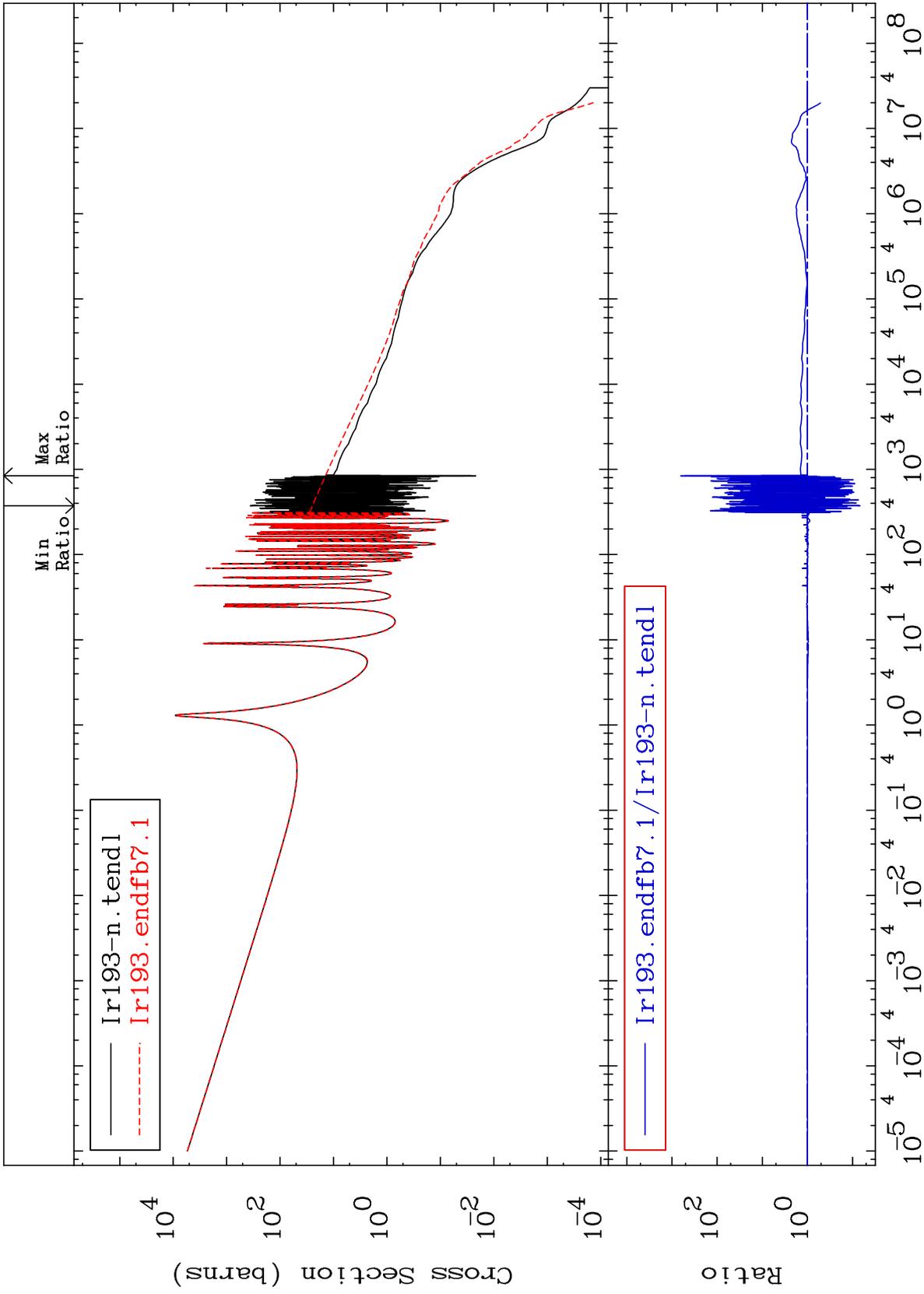
Incident Energy (eV)

<sup>77</sup>Ir-<sup>193</sup>

MAT 7731

(n,  $\gamma$ )  
Cross Section

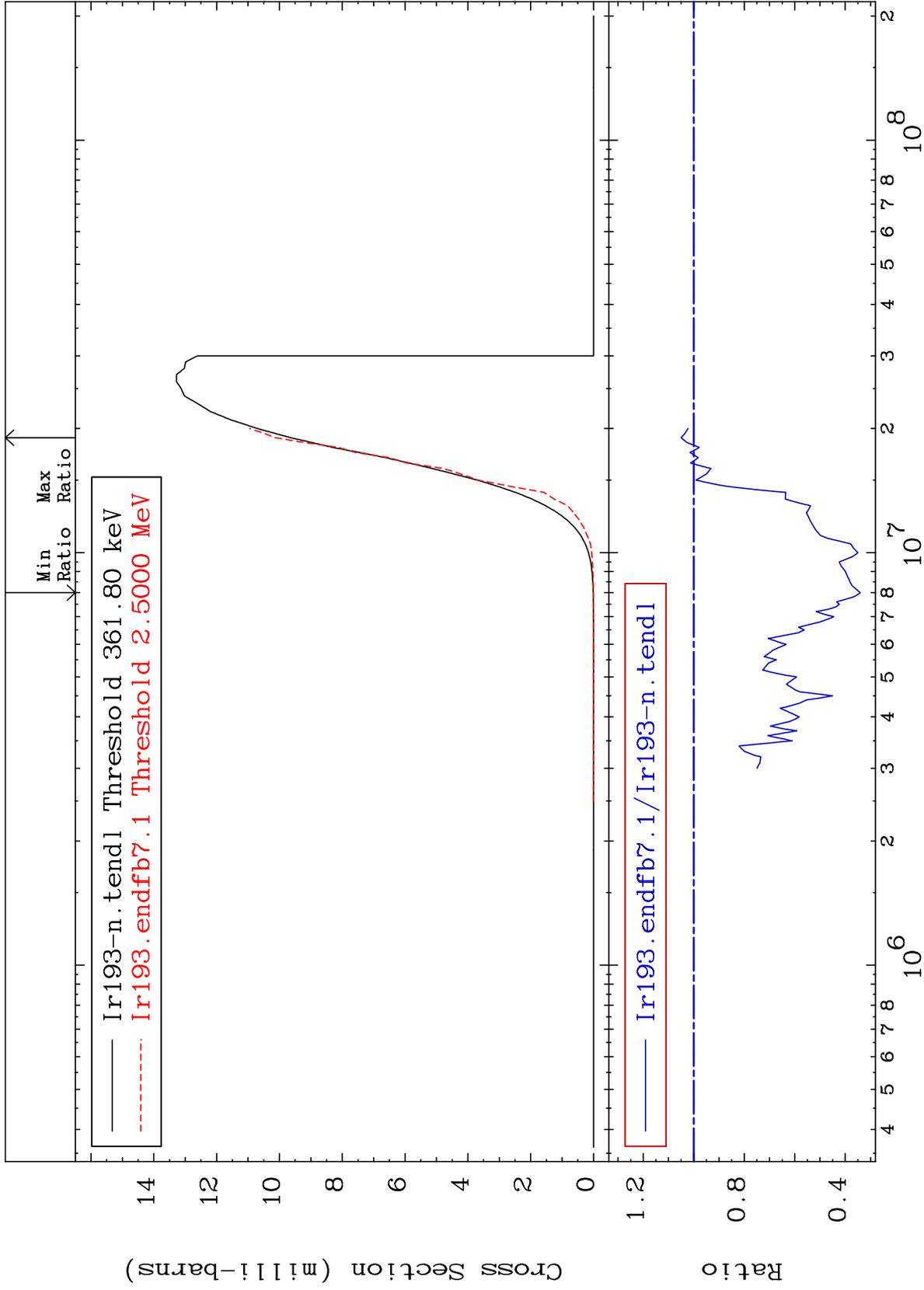
77-Ir-193  
-93.16 To 9999. %



MAT 7731

<sup>77</sup>Ir-193

(n,p)  
Cross Section  
-65.91 To 4.986 %



42

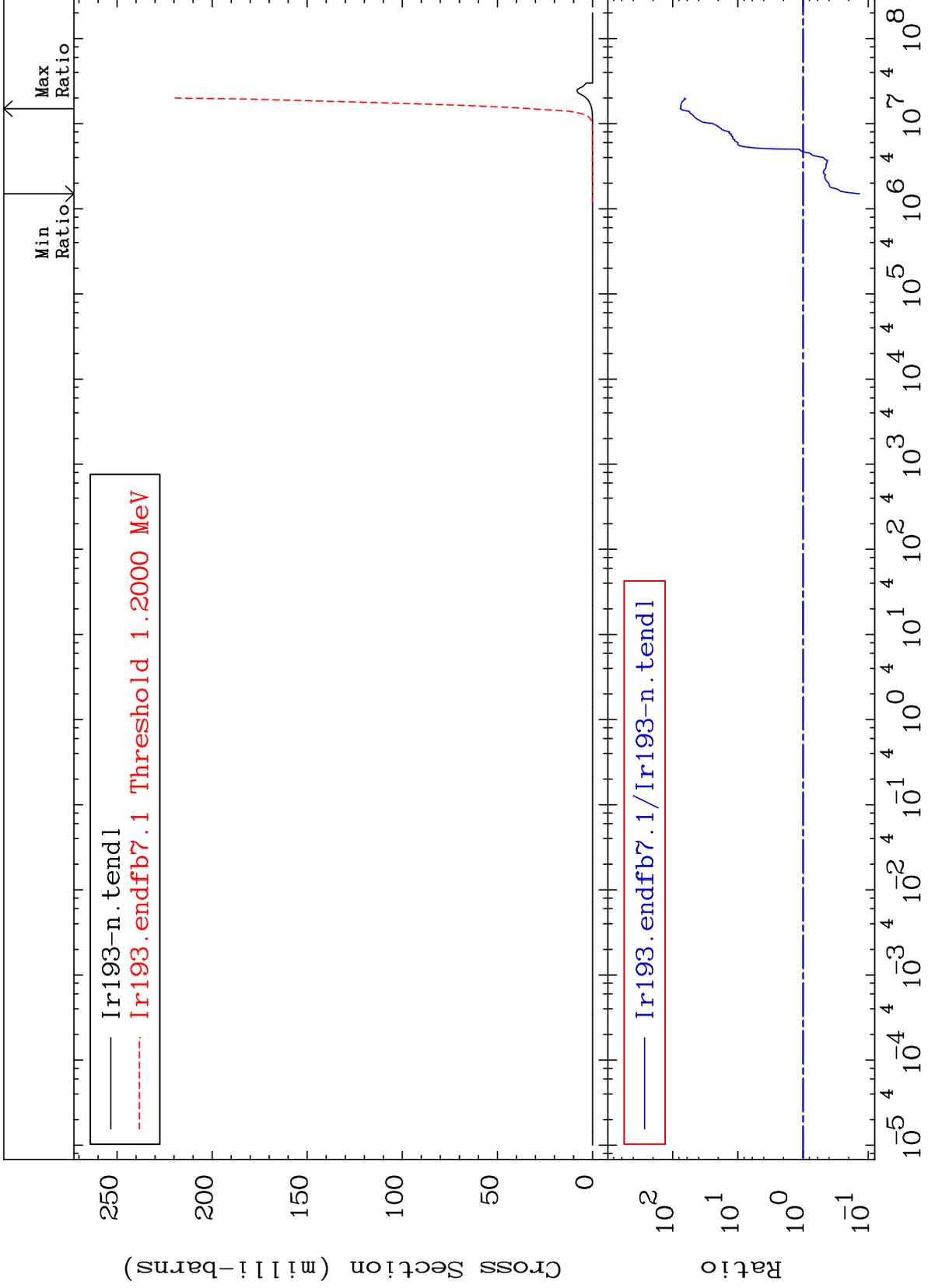
Incident Energy (eV)

<sup>77</sup>Ir-193

MAT 7731

(n,  $\alpha$ )  
Cross Section

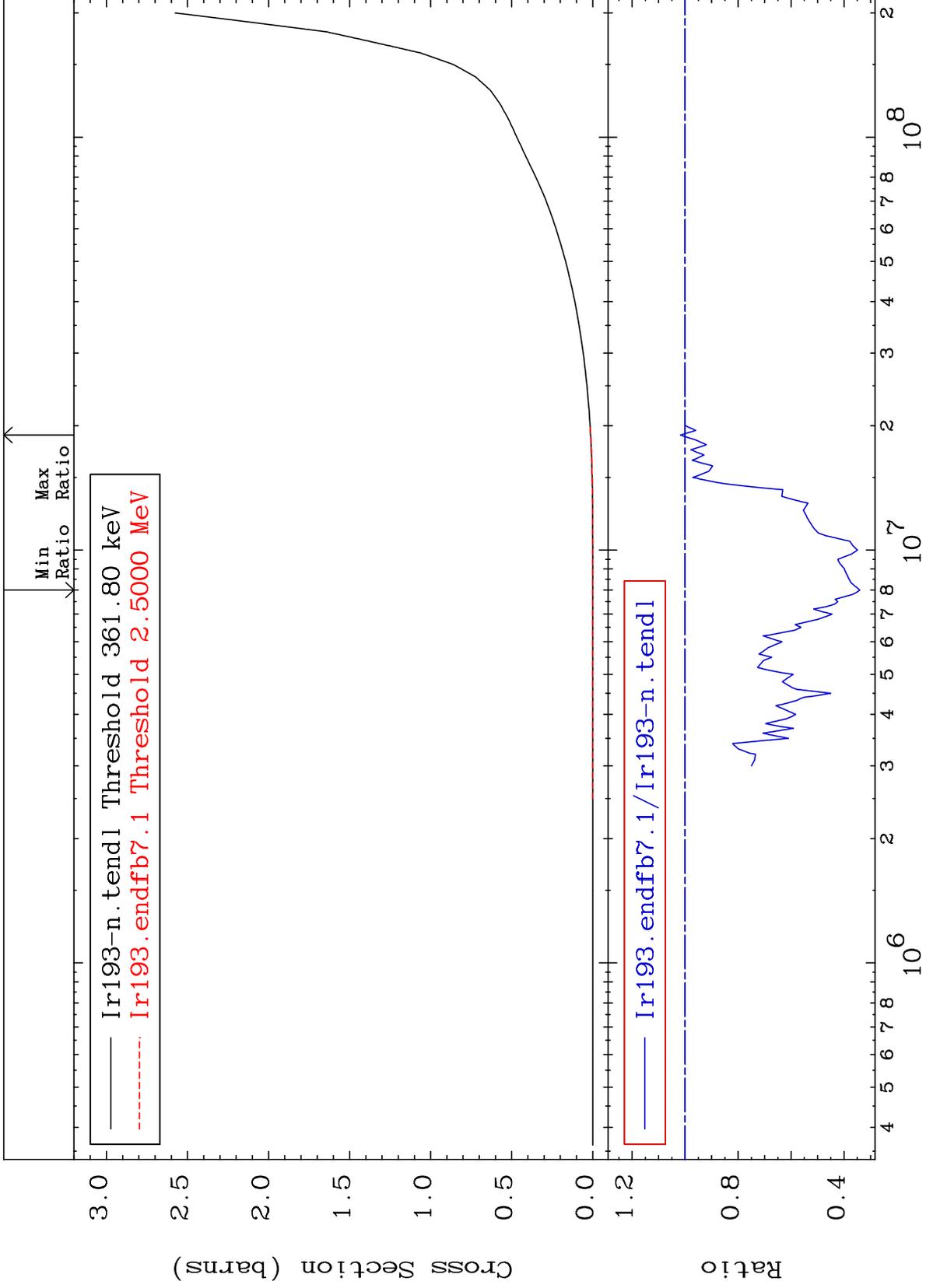
77-Ir-193  
-86.36 To 7536. %



MAT 7731

Hydrogen Production  
Cross Section

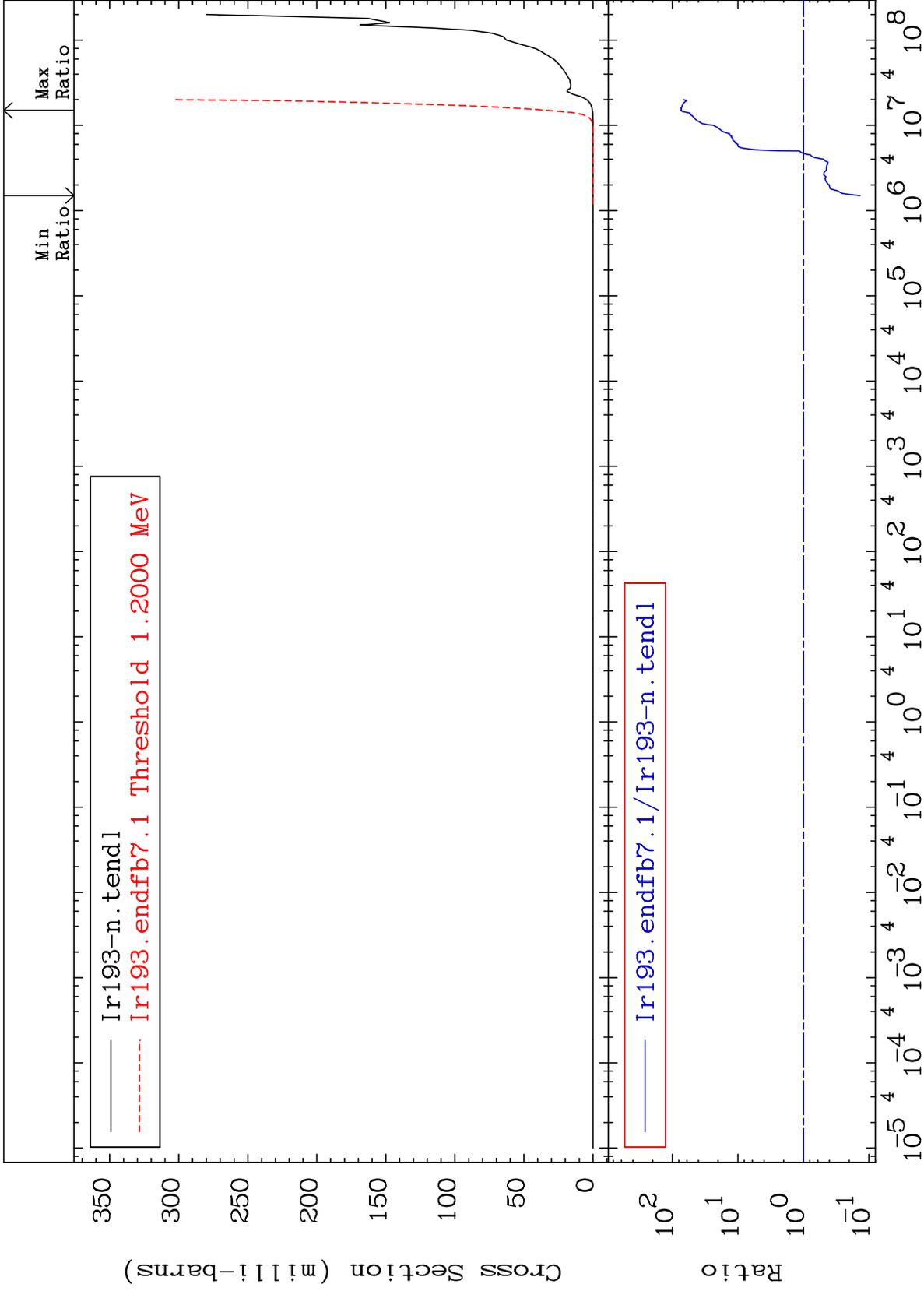
<sup>77</sup>Ir-<sup>193</sup>  
-65.91 To 1.730 %



MAT 7731

He-4 Production  
Cross Section

77-Ir-193  
-86.36 To 7354. %



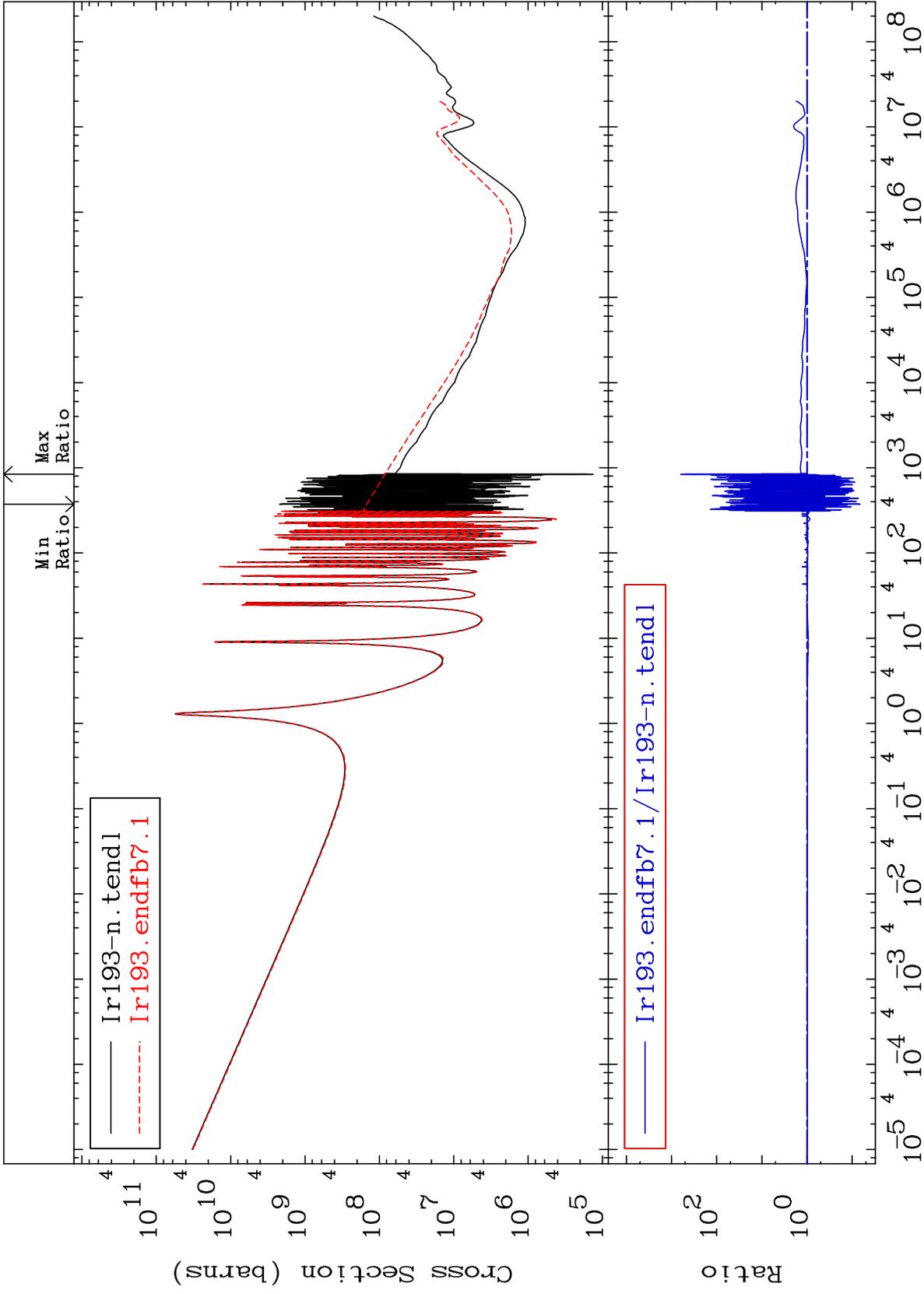
45

Incident Energy (eV)

77-Ir-193

Cross Section

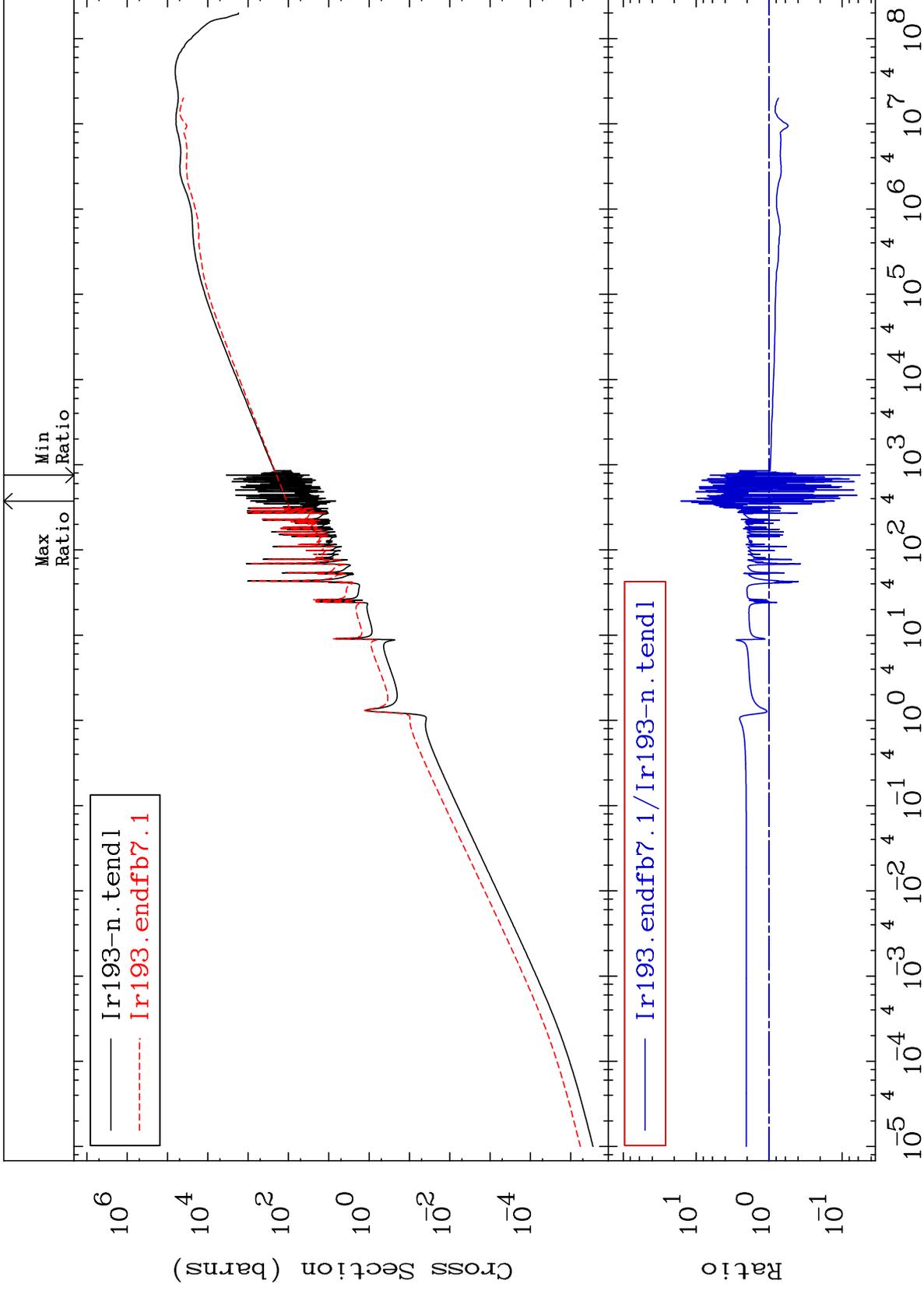
-93.30 To 9999. %



MAT 7731

Kerma elastic  
Cross Section

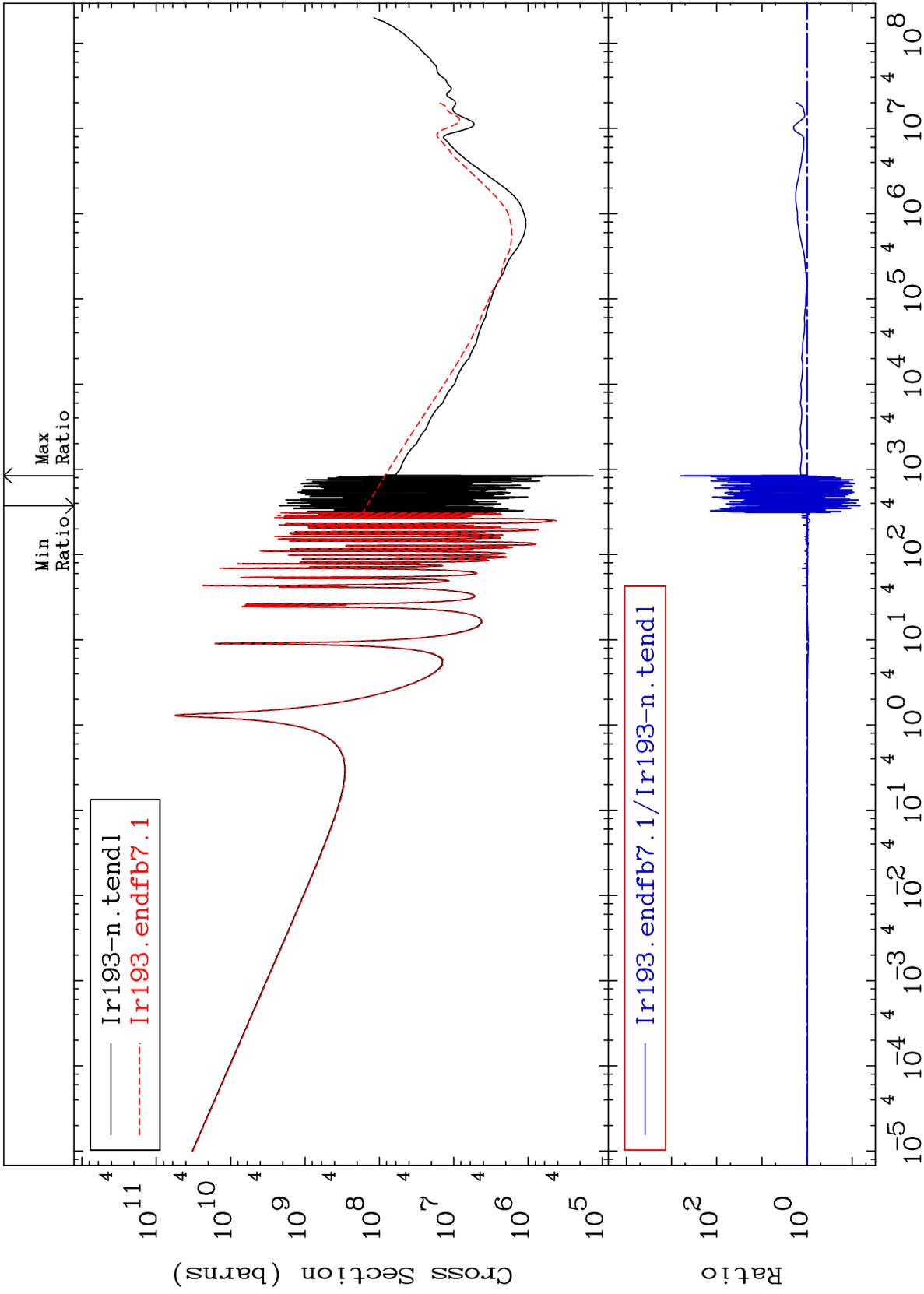
<sup>77</sup>Ir-<sup>193</sup>  
-94.34 To 1526. %

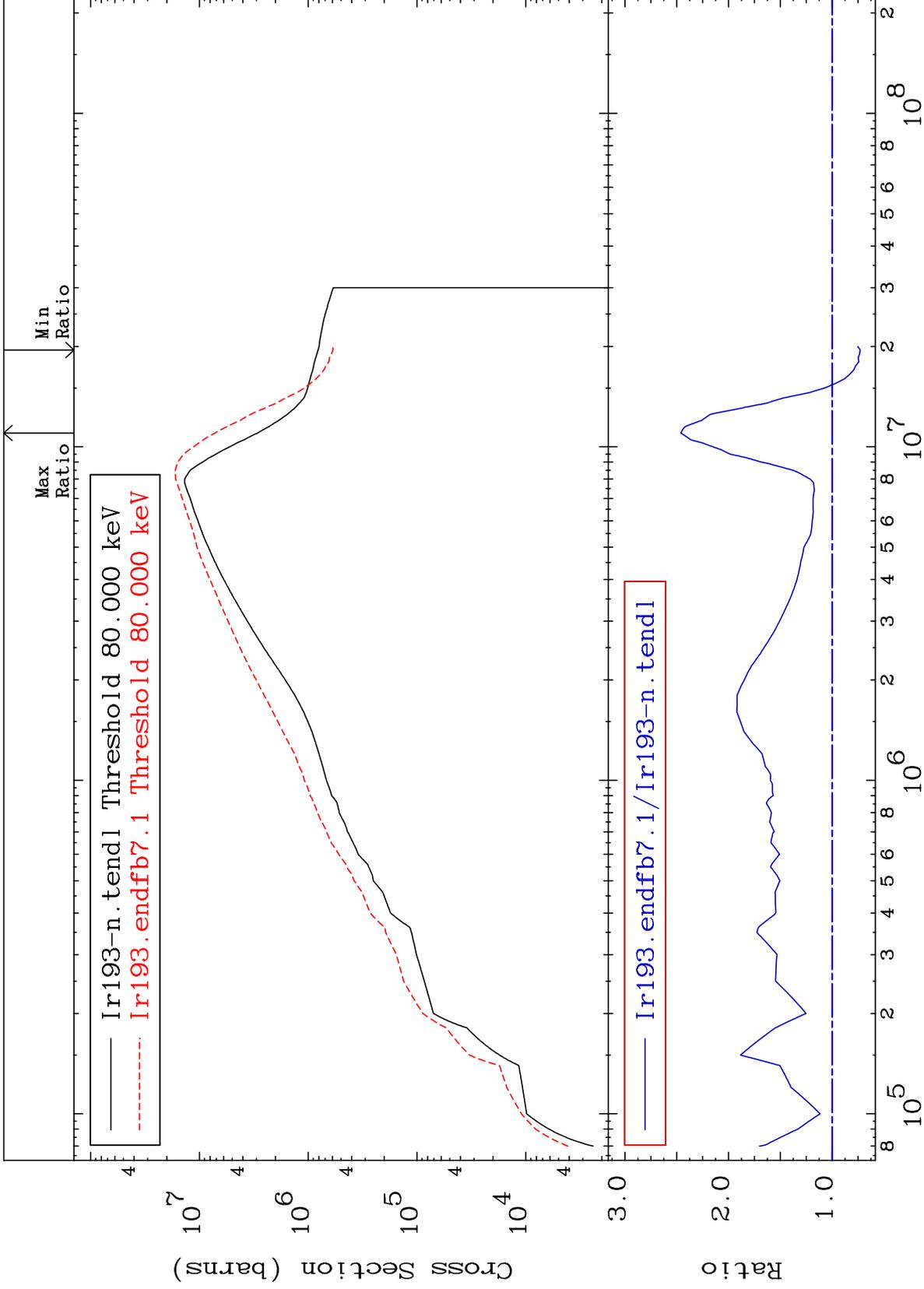


MAT 7731

Kerma non-elastic (all but mt2)  
Cross Section

77-Ir-193  
-93.30 To 9999. %

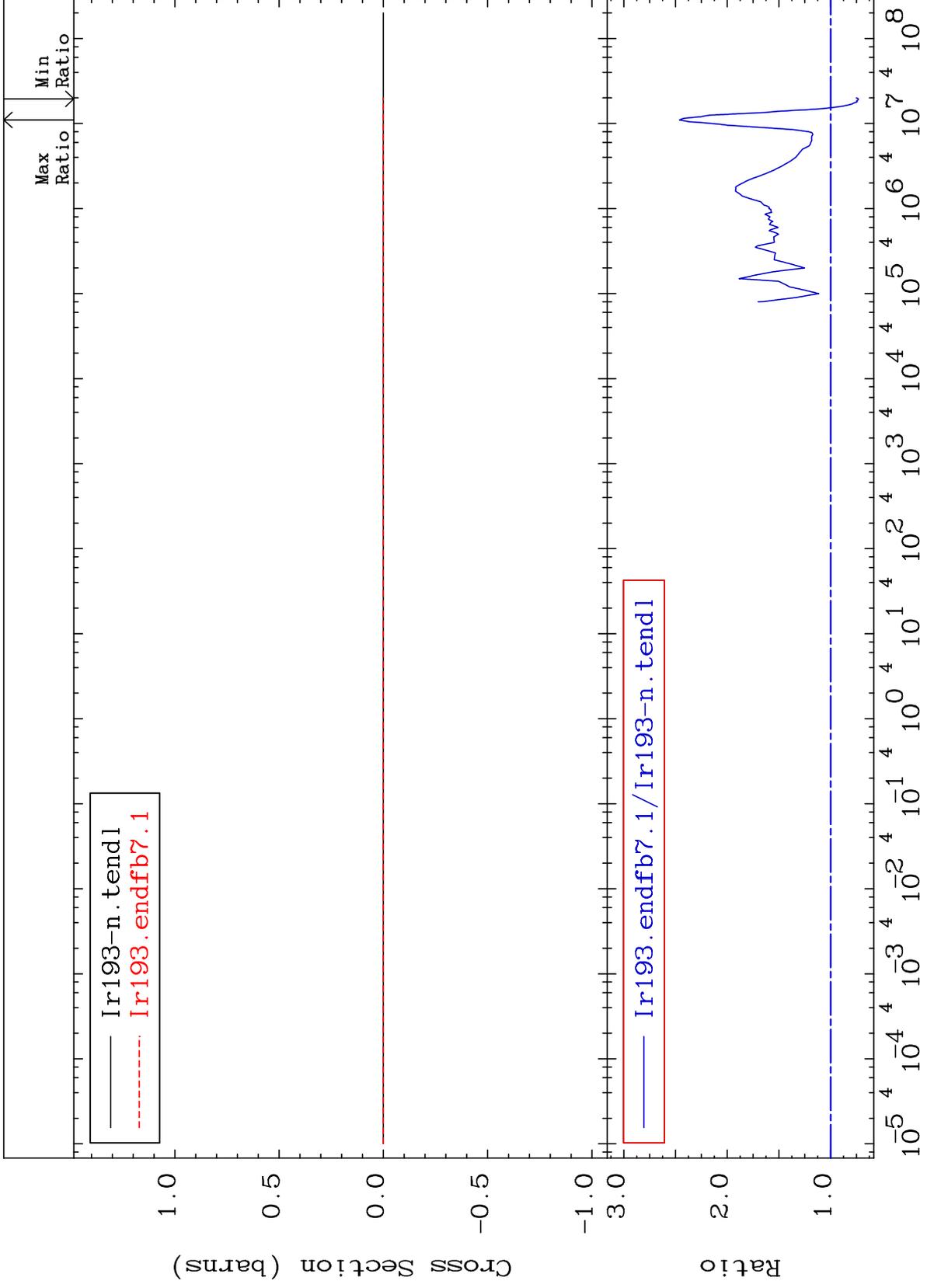




MAT 7731

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

77-Ir-193  
-27.10 To 146.1 %



50

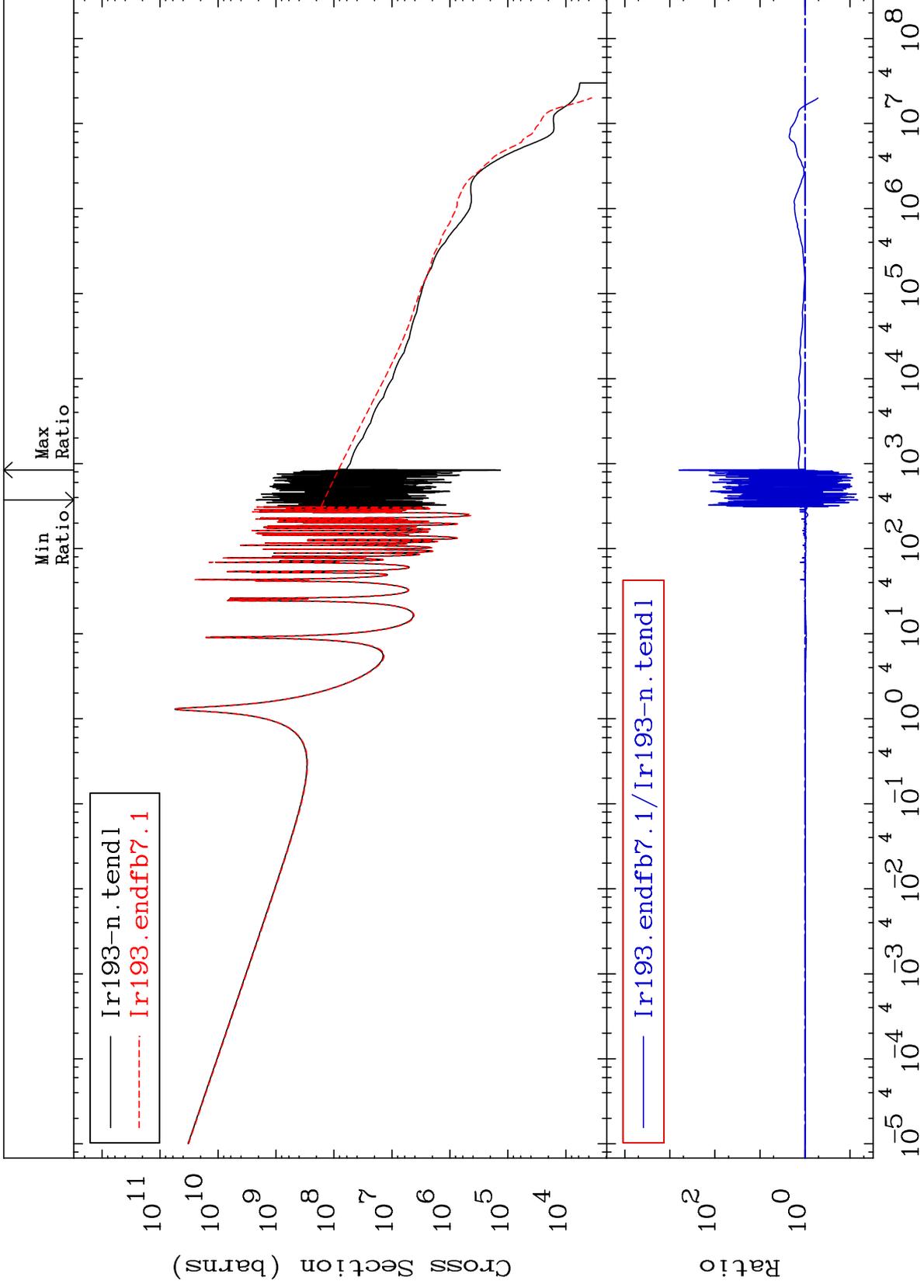
Incident Energy (eV)

77-Ir-193

MAT 7731

Kerma capture (mt102)  
Cross Section

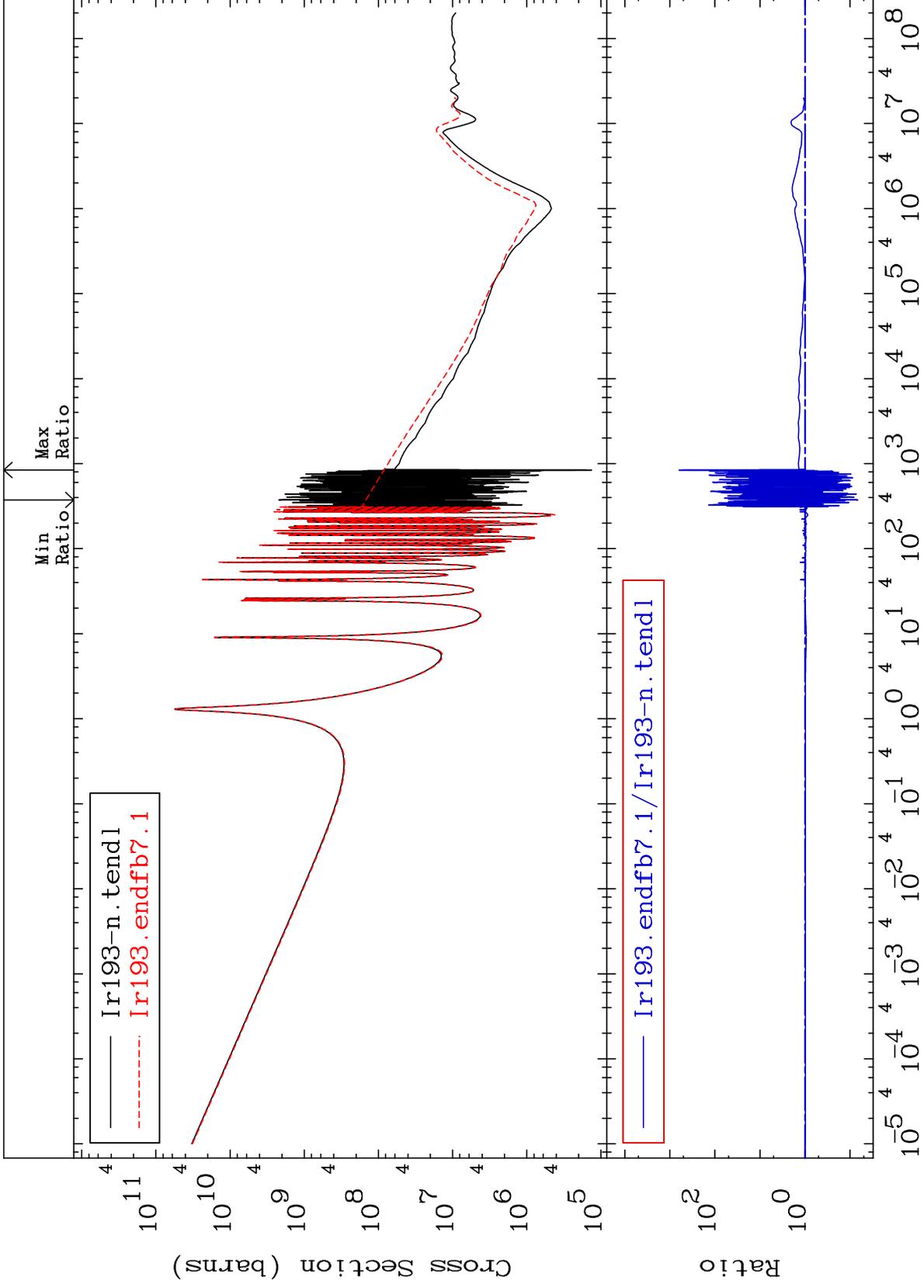
77-Ir-193  
-93.30 To 9999. %



MAT 7731

Total photon (eV-barns)  
Cross Section

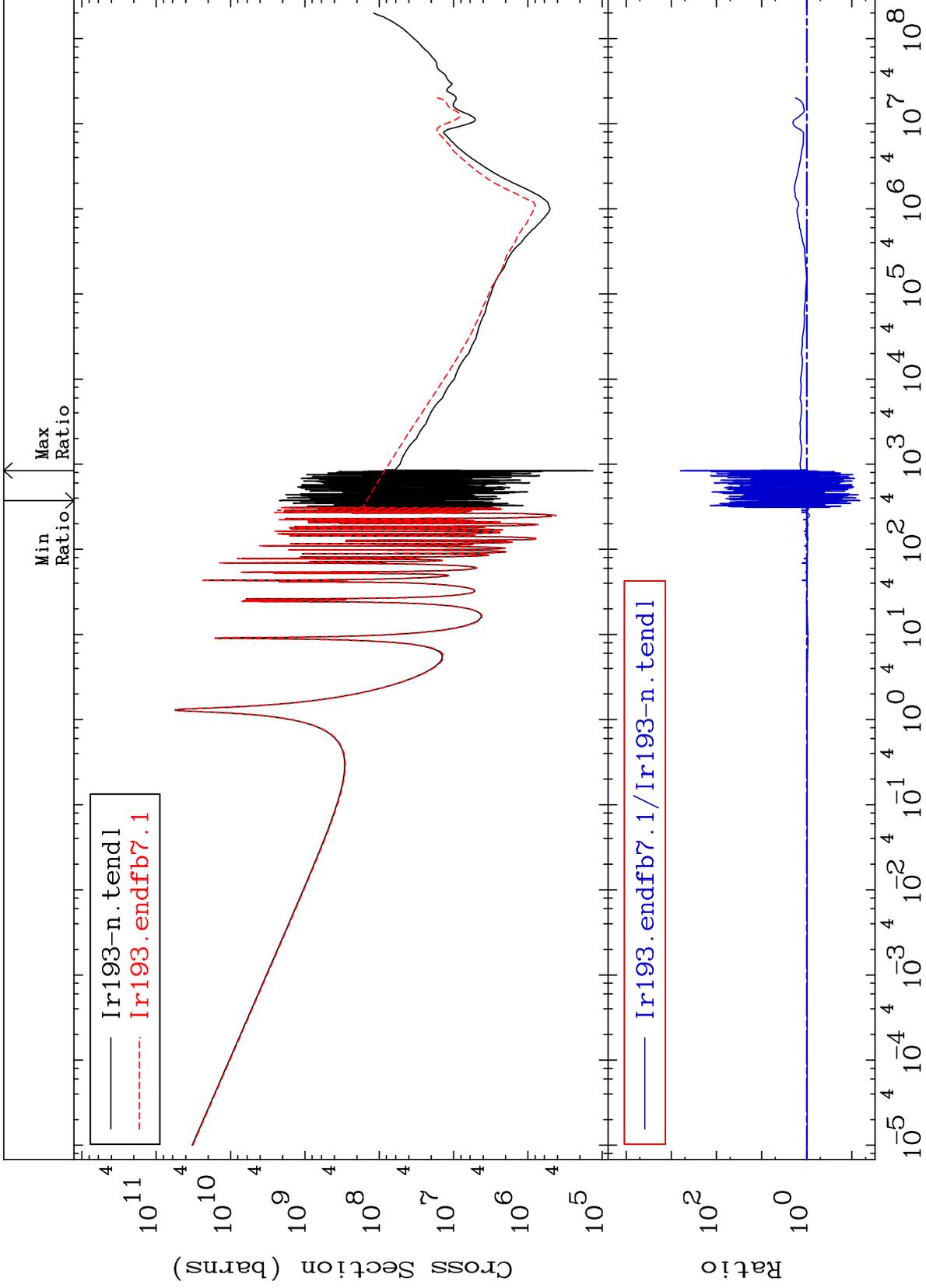
77-Ir-193  
-93.30 To 9999. %

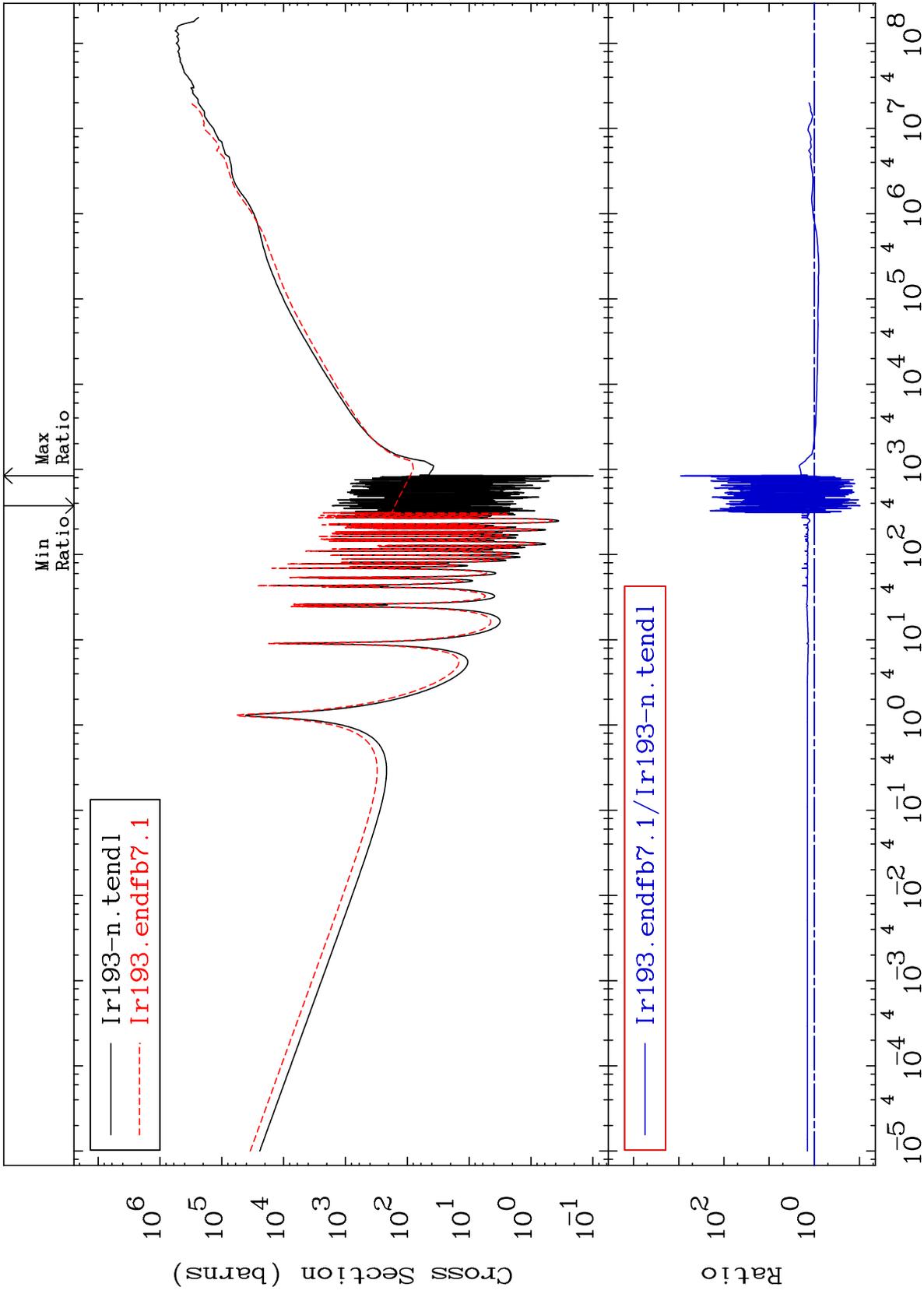


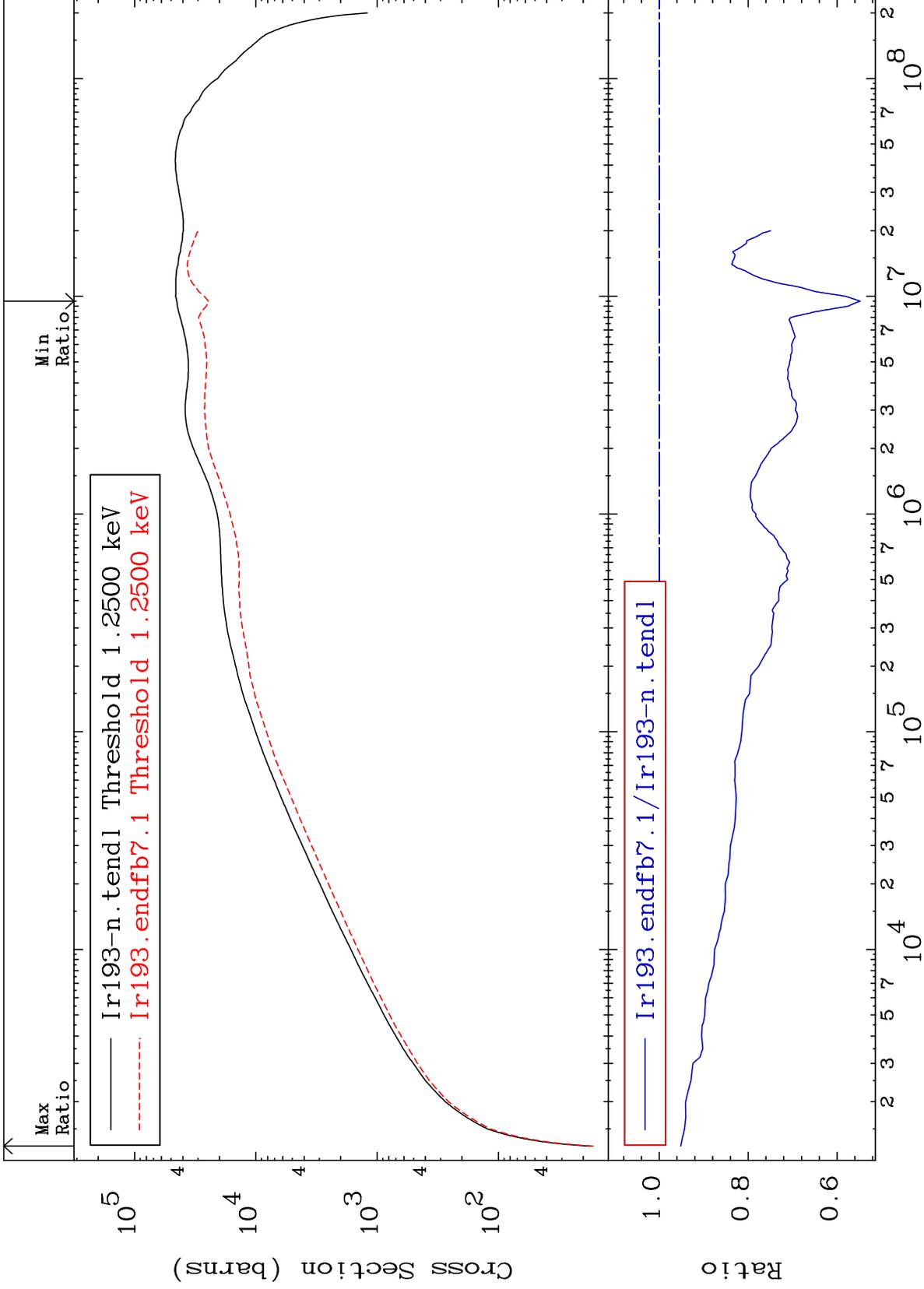
52

Incident Energy (eV)

77-Ir-193



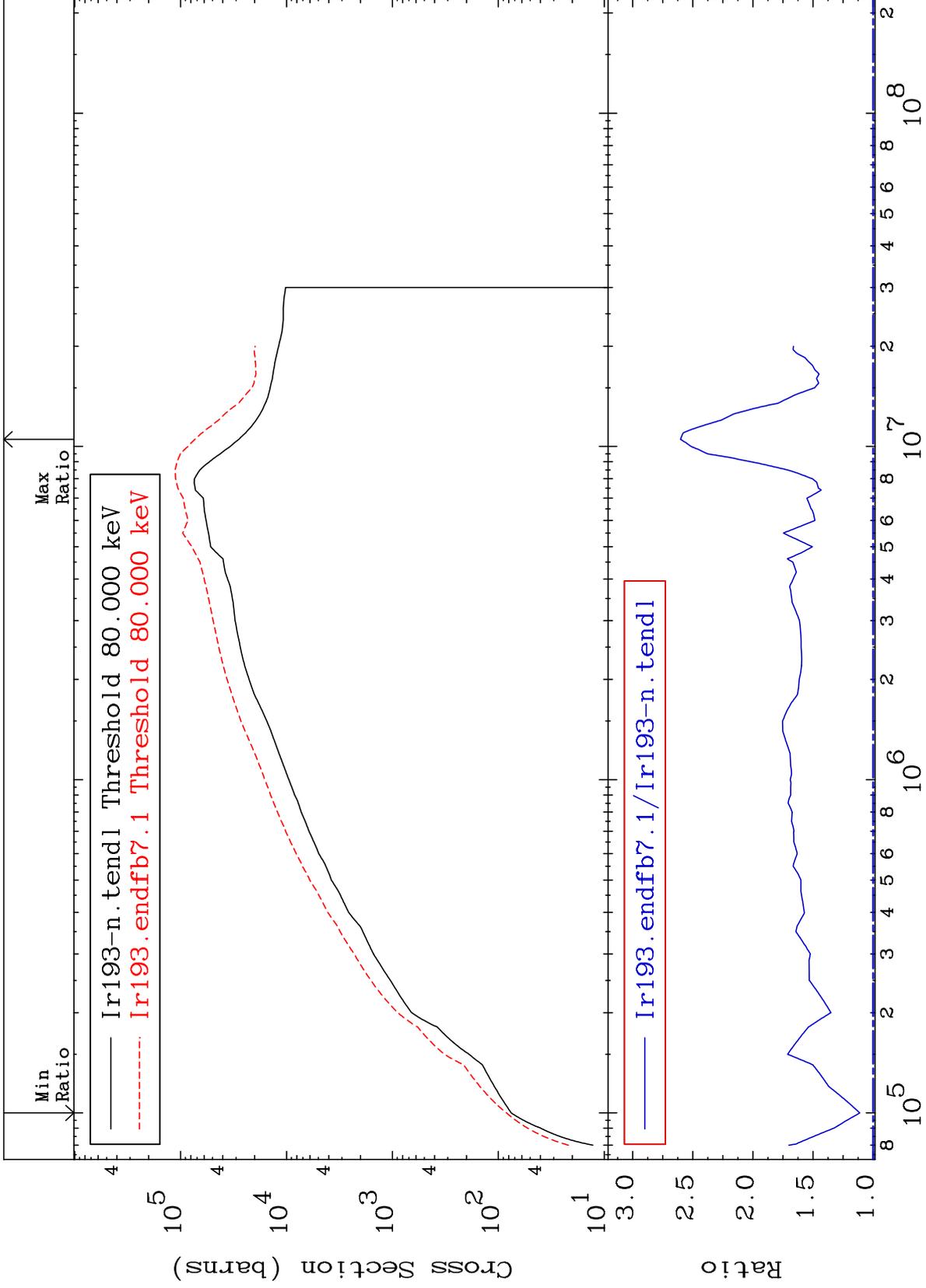




MAT 7731

Dpa inelastic (mt51-91)  
Cross Section

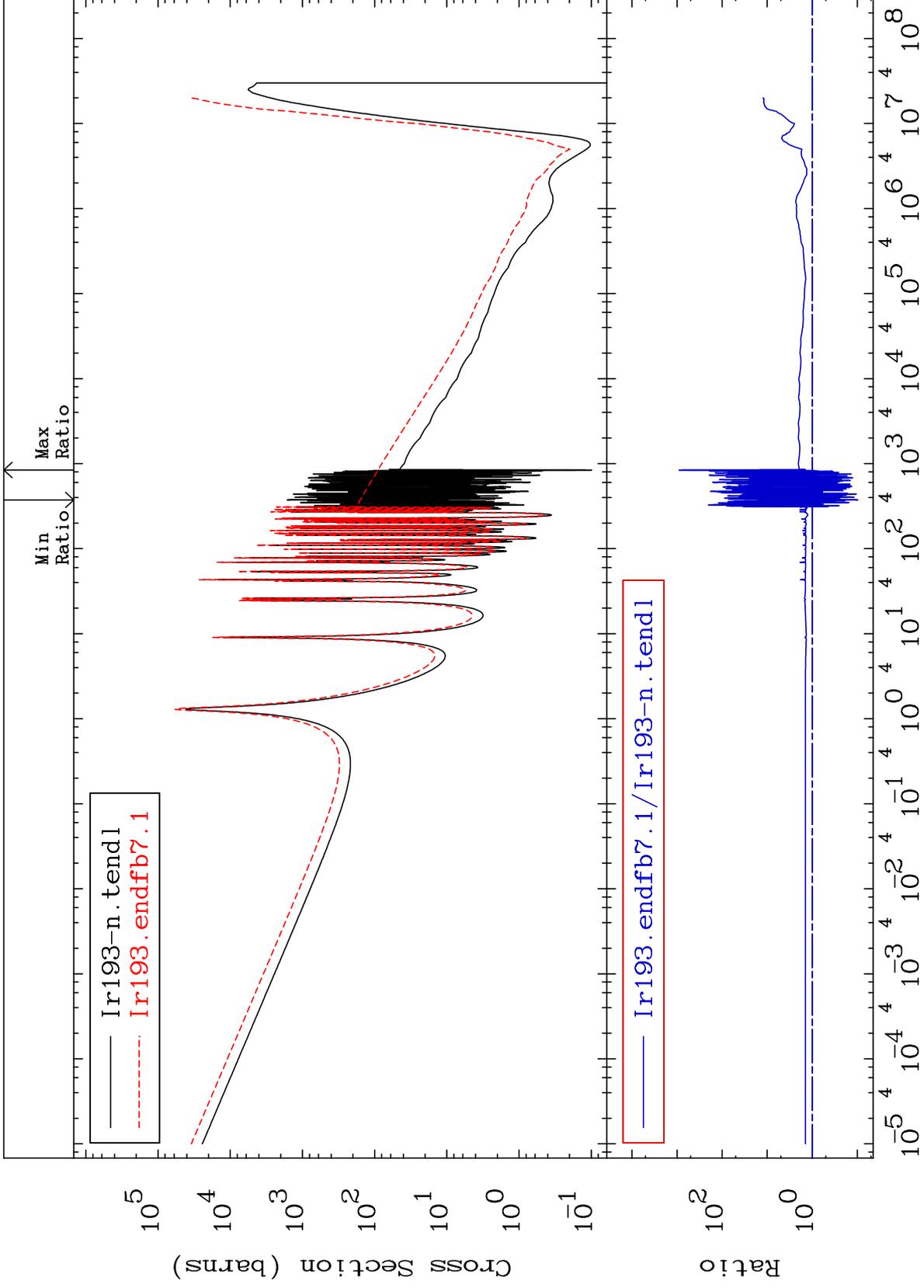
77-Ir-193  
11.11 To 160.2 %



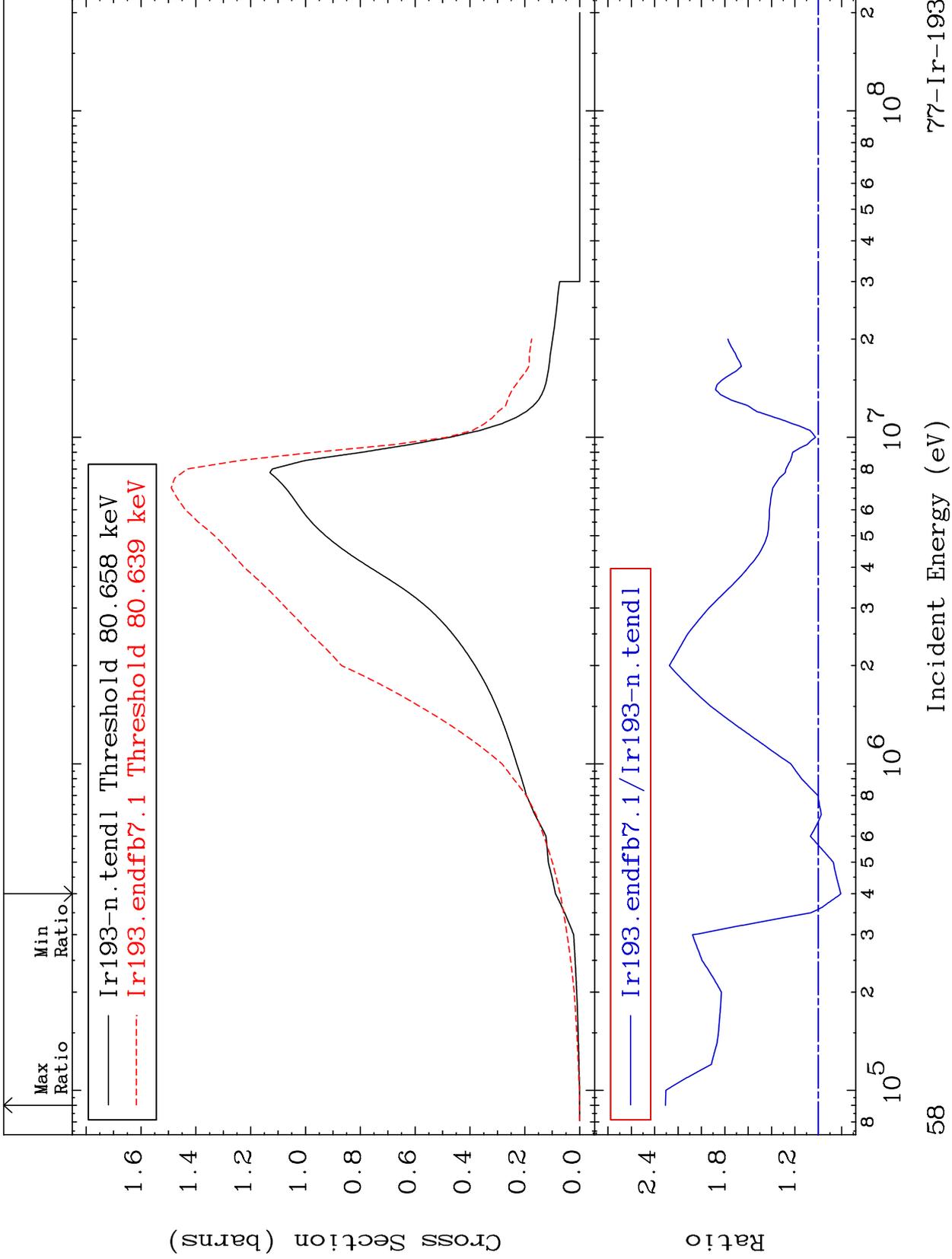
MAT 7731

Dpa disappearance (mt102 -120)  
Cross Section

77-Ir-193  
-90.28 To 9999. %

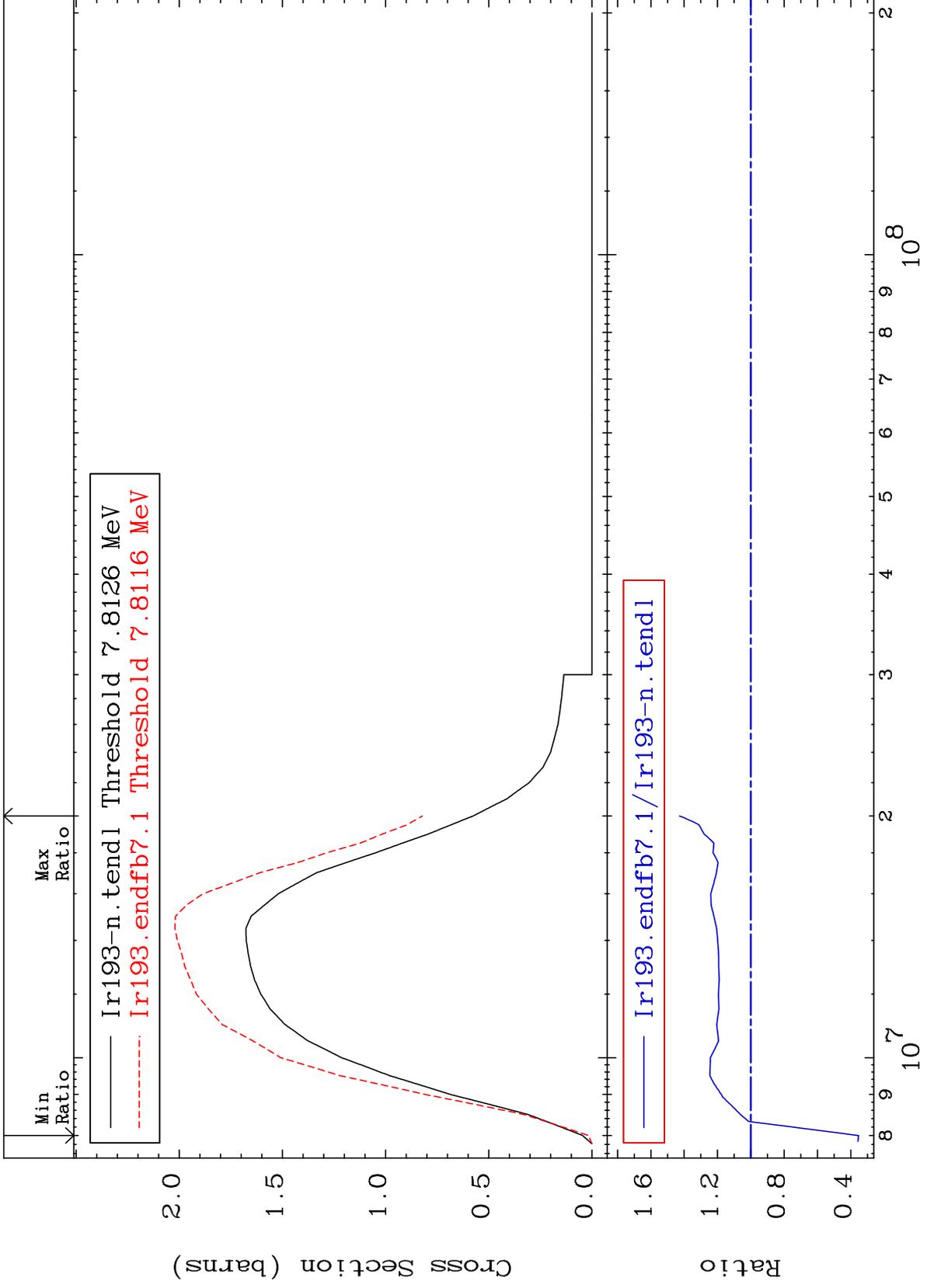


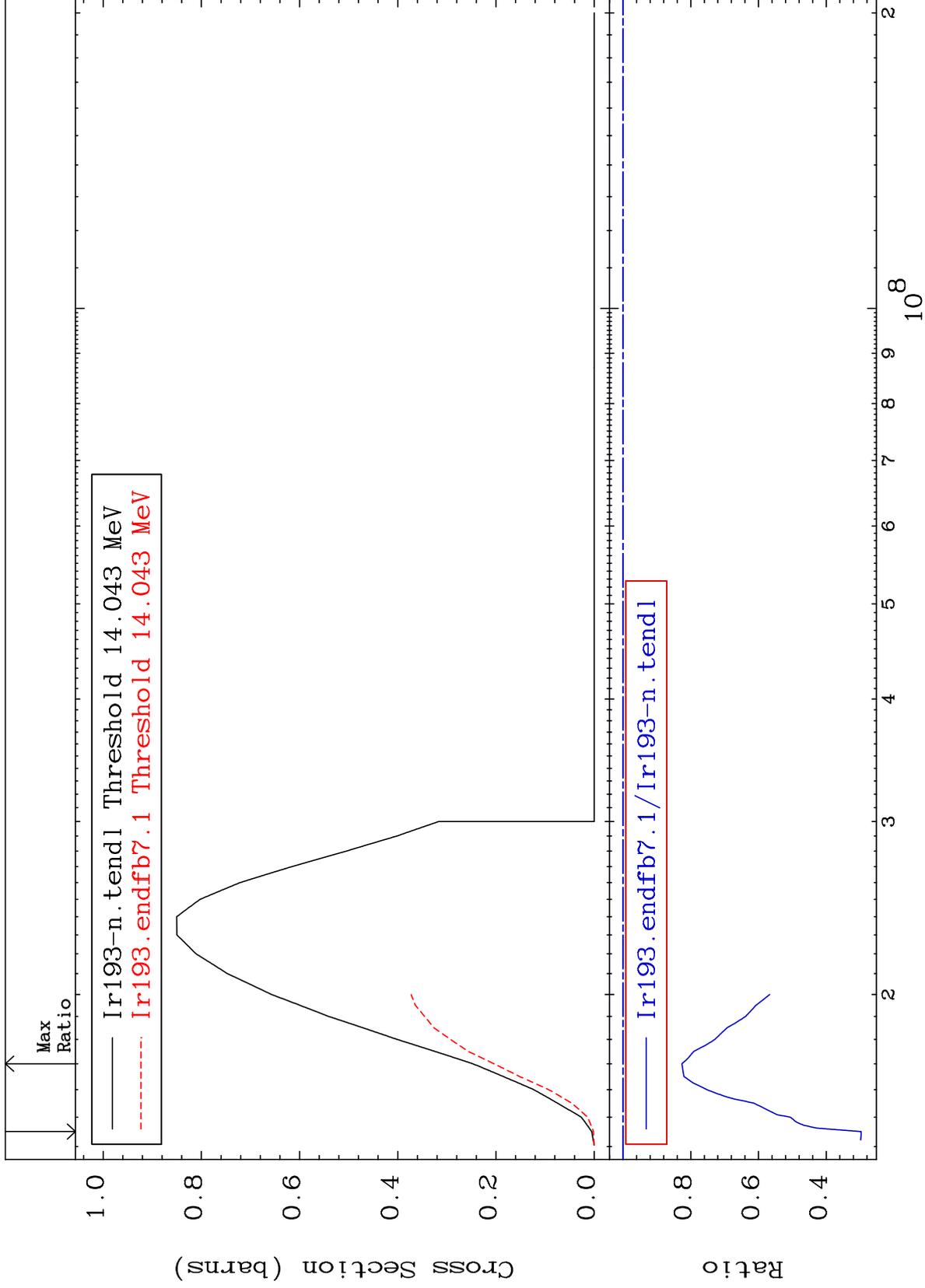
Radionuclide Production Cross Section -19.32 To 130.7 %



MAT 7731

(n,2n):77-Ir-192g 77-Ir-193  
Radionuclide Production Cross Section -64.60 To 42.79 %





Radionuclide Production Cross Section -79.34 To 61.22 %

