

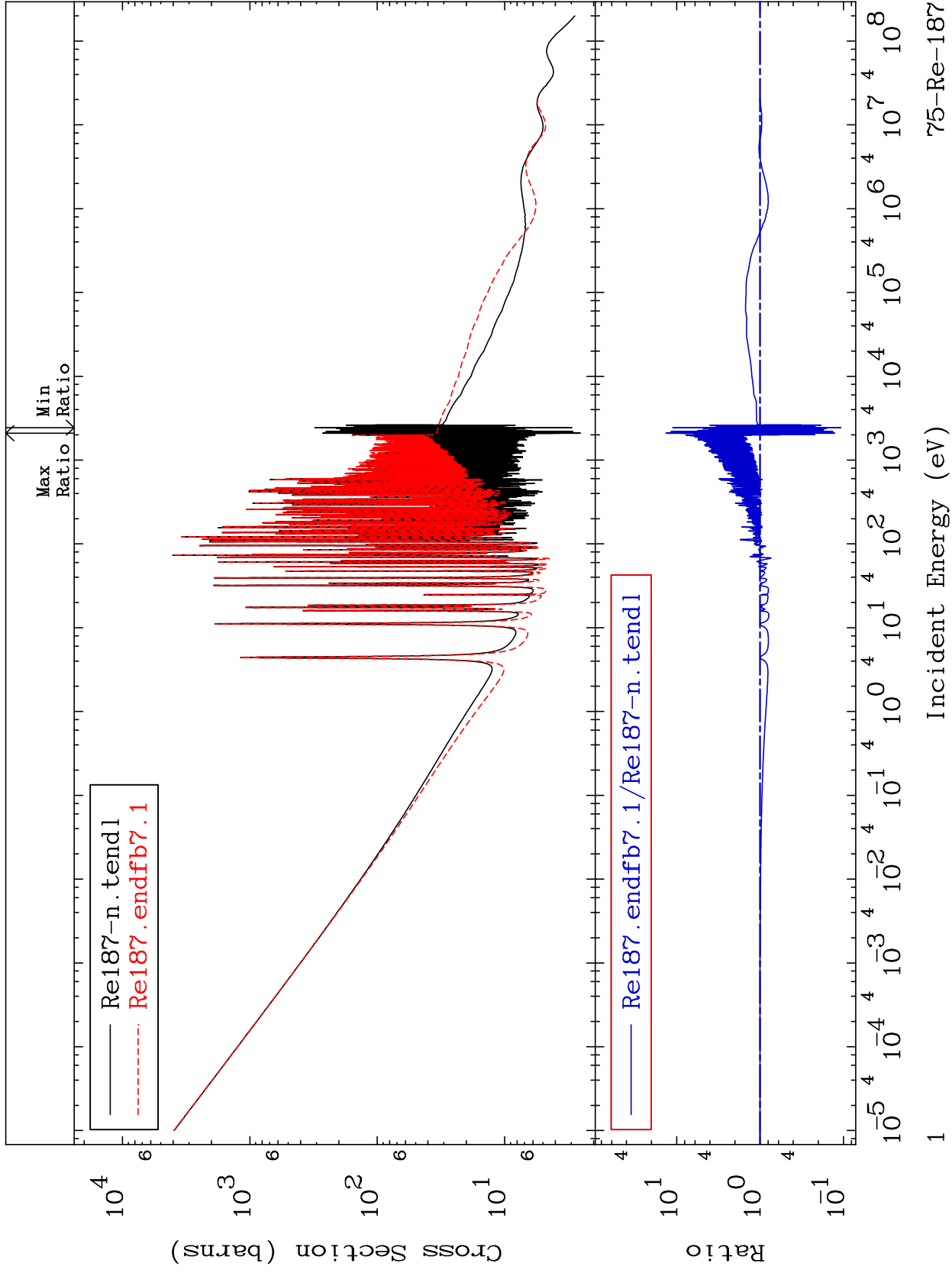
MAT 7531

Total

Cross Section

<sup>75</sup>Re-<sup>187</sup>

-89.26 To 1242. %



Incident Energy (eV)

<sup>75</sup>Re-<sup>187</sup>

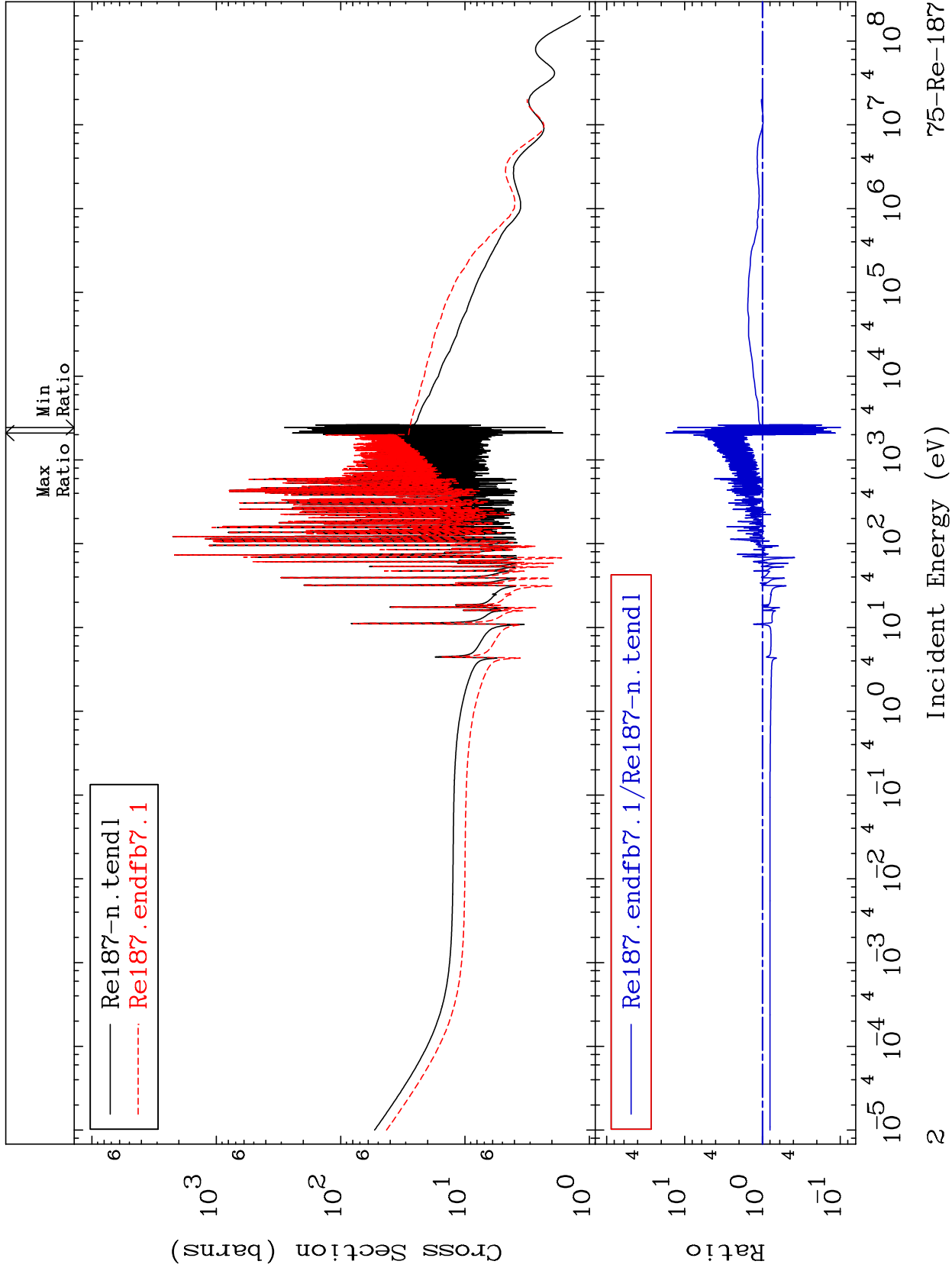
MAT 7531

Elastic

Cross Section

<sup>75</sup>Re-187

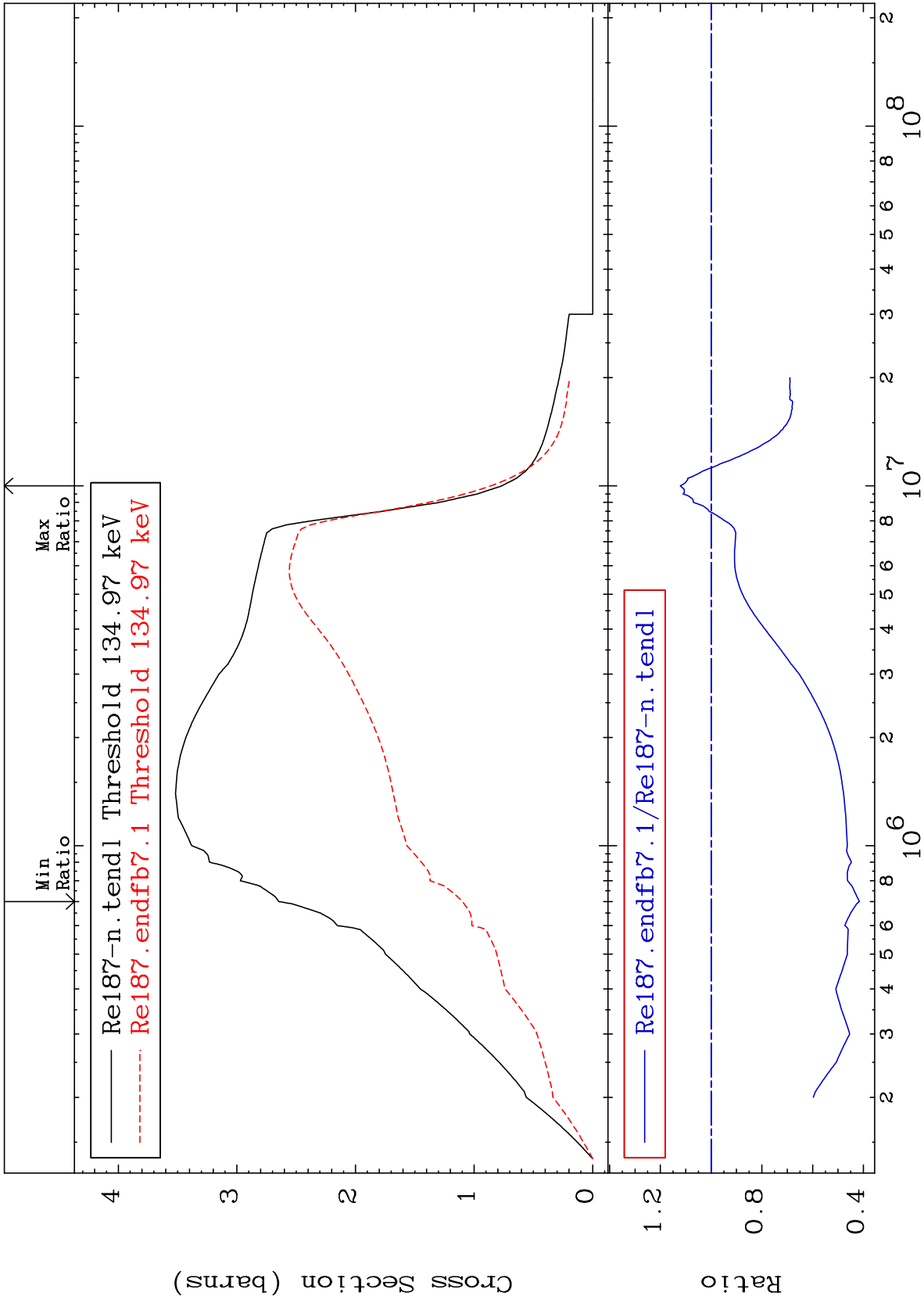
-90.17 To 1634. %



<sup>75</sup>Re-187

MAT 7531

Inelastic Cross Section  
75-Re-187  
-58.43 To 12.12 %



3

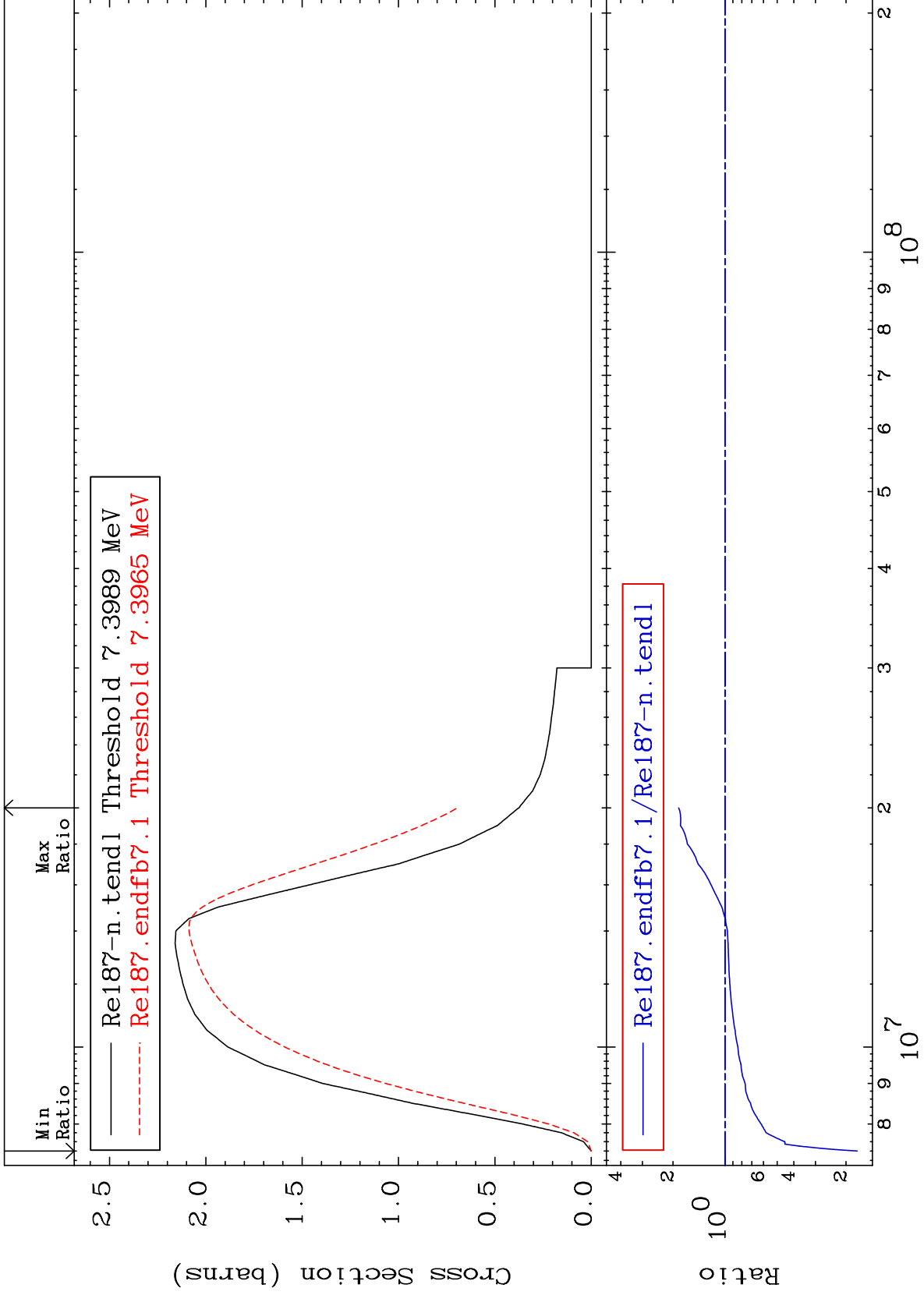
Incident Energy (eV)

75-Re-187

MAT 7531

(n,2n)  
Cross Section

<sup>75</sup>Re-<sup>187</sup>Re  
-82.78 To 85.28 %



4

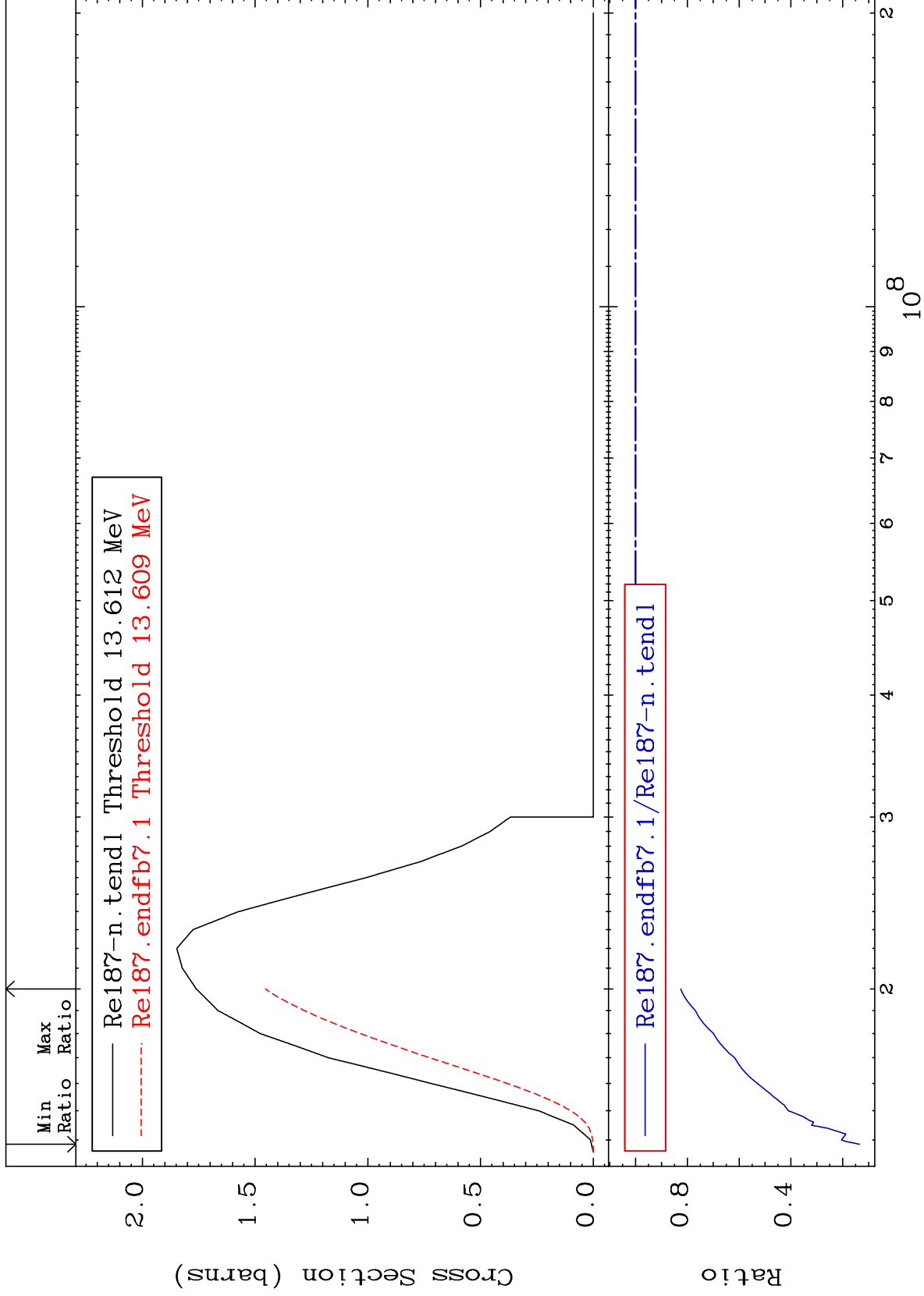
Incident Energy (eV)

<sup>75</sup>Re-<sup>187</sup>Re

MAT 7531

(n,3n)  
Cross Section

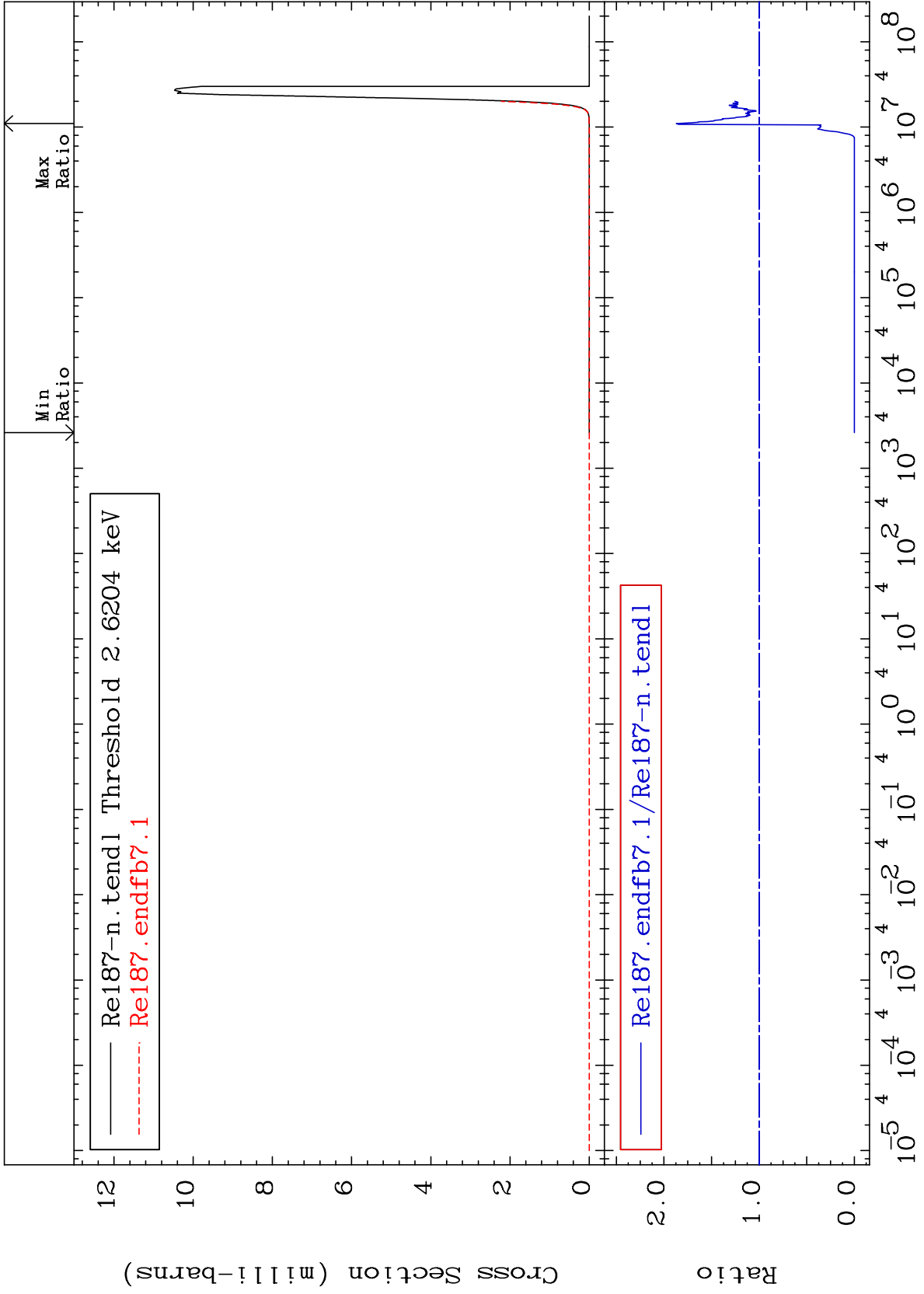
<sup>75</sup>Re-<sup>187</sup>Re  
-86.50 To -17.44%



MAT 7531

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

$^{75}\text{Re-187}$   
-100.0 To 86.99 %



Incident Energy (eV)

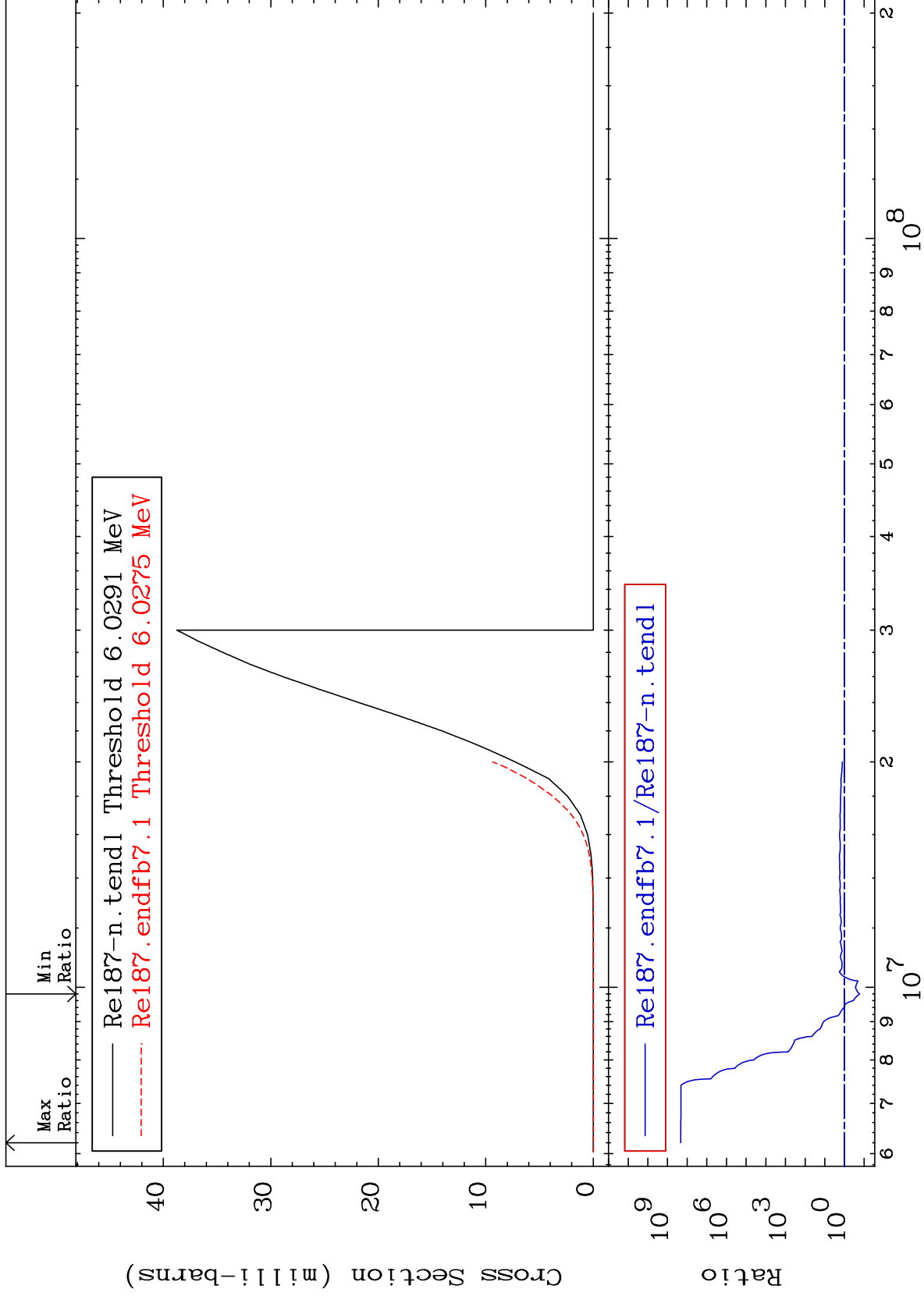
$^{75}\text{Re-187}$

6

MAT 7531

(n,n') p  
Cross Section

<sup>75</sup>Re-<sup>187</sup>Re  
-82.94 To 9999. %



7

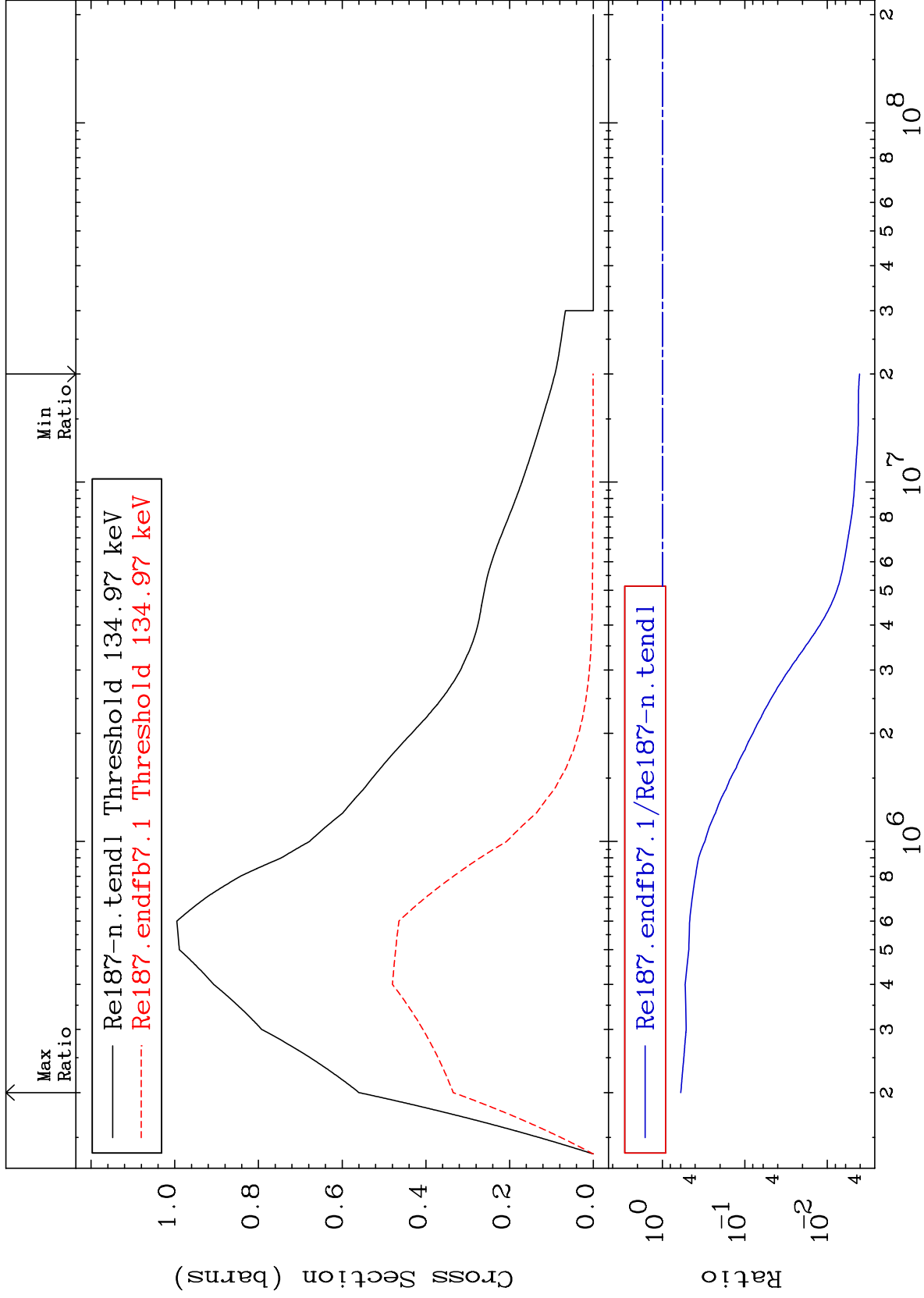
Incident Energy (eV)

<sup>75</sup>Re-<sup>187</sup>Re

MAT 7531

134.2 keV (n,n') Level  
Cross Section

75-Re-187  
-99.59 To -40.24%





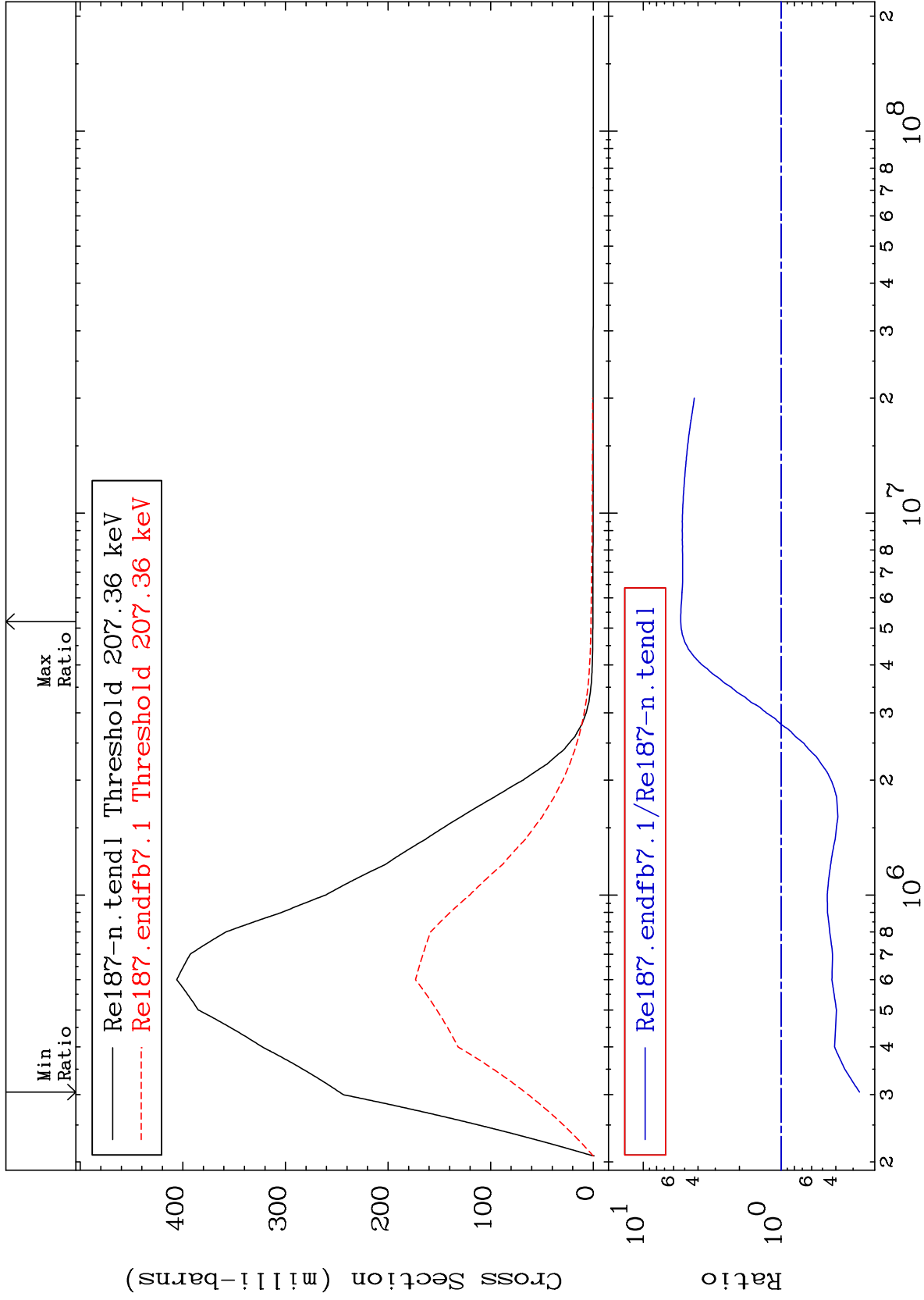
MAT 7531

206.2 keV (n,n') Level

<sup>75</sup>Re-<sup>187</sup>

-73.08 To 433.5 %

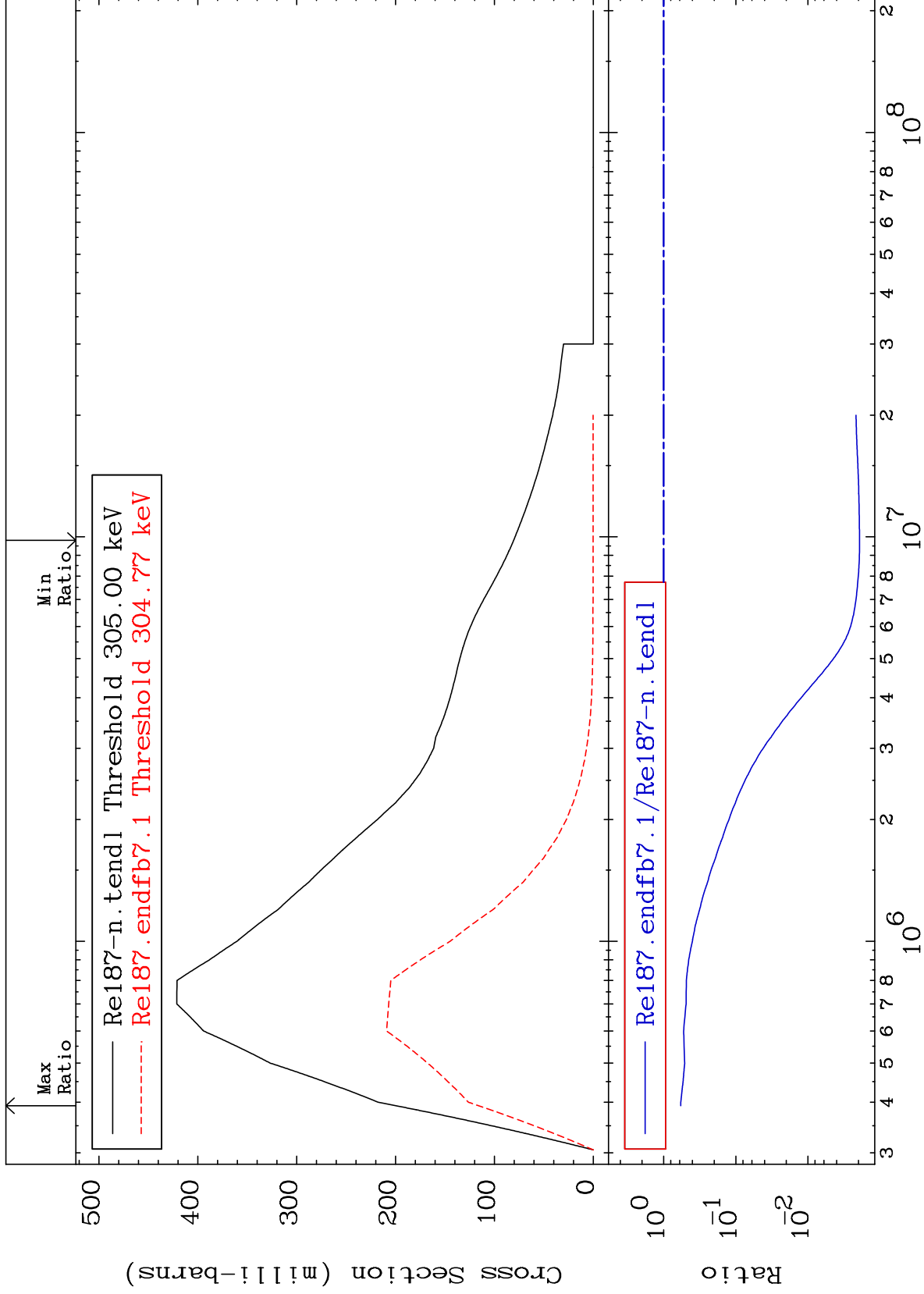
Cross Section



MAT 7531

303.4 keV (n,n') Level  
Cross Section

<sup>75</sup>Re-<sup>187</sup>Re  
-99.81 To -41.92%



10

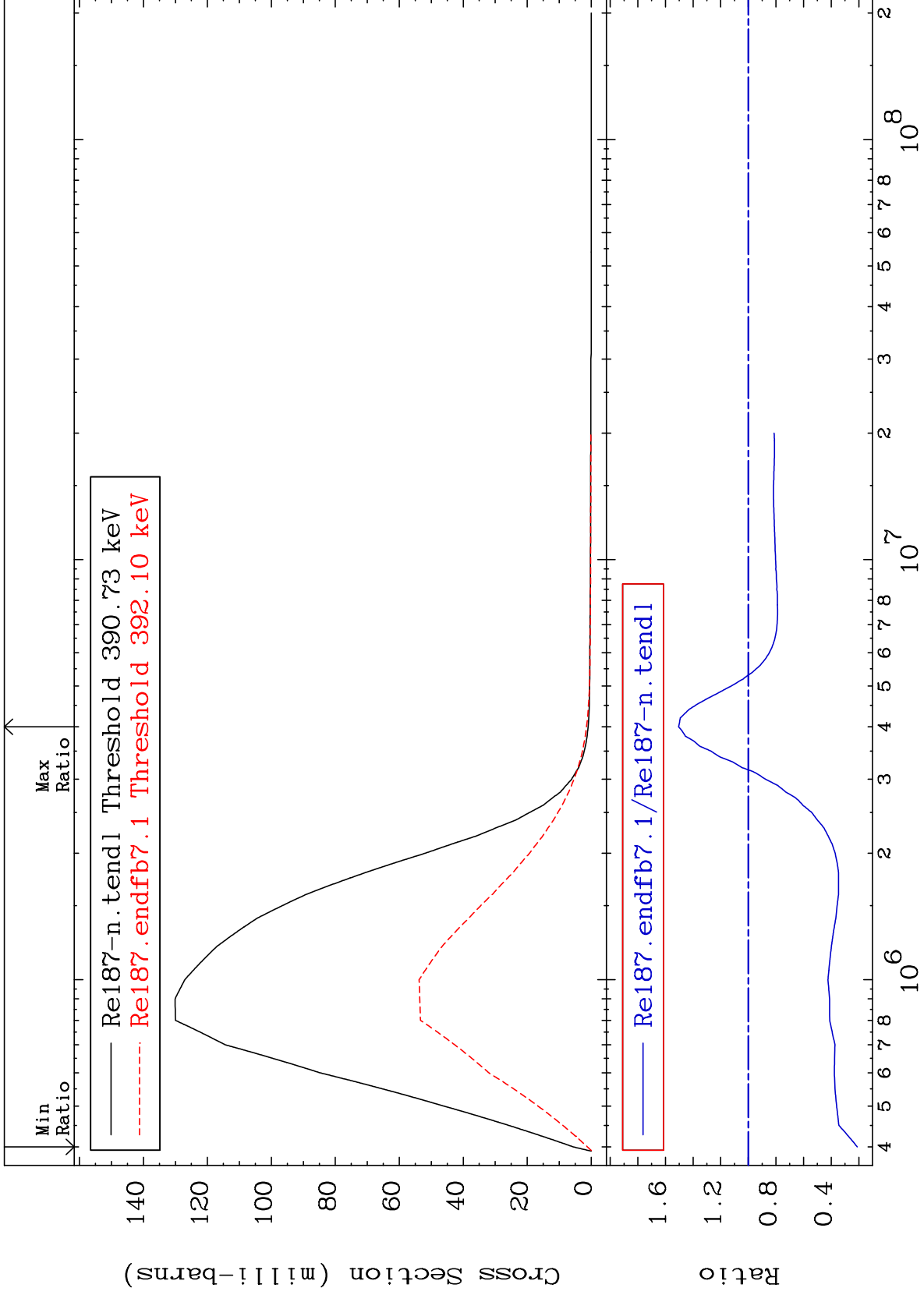
Incident Energy (eV)

<sup>75</sup>Re-<sup>187</sup>Re

MAT 7531

388.6 keV (n,n') Level  
Cross Section

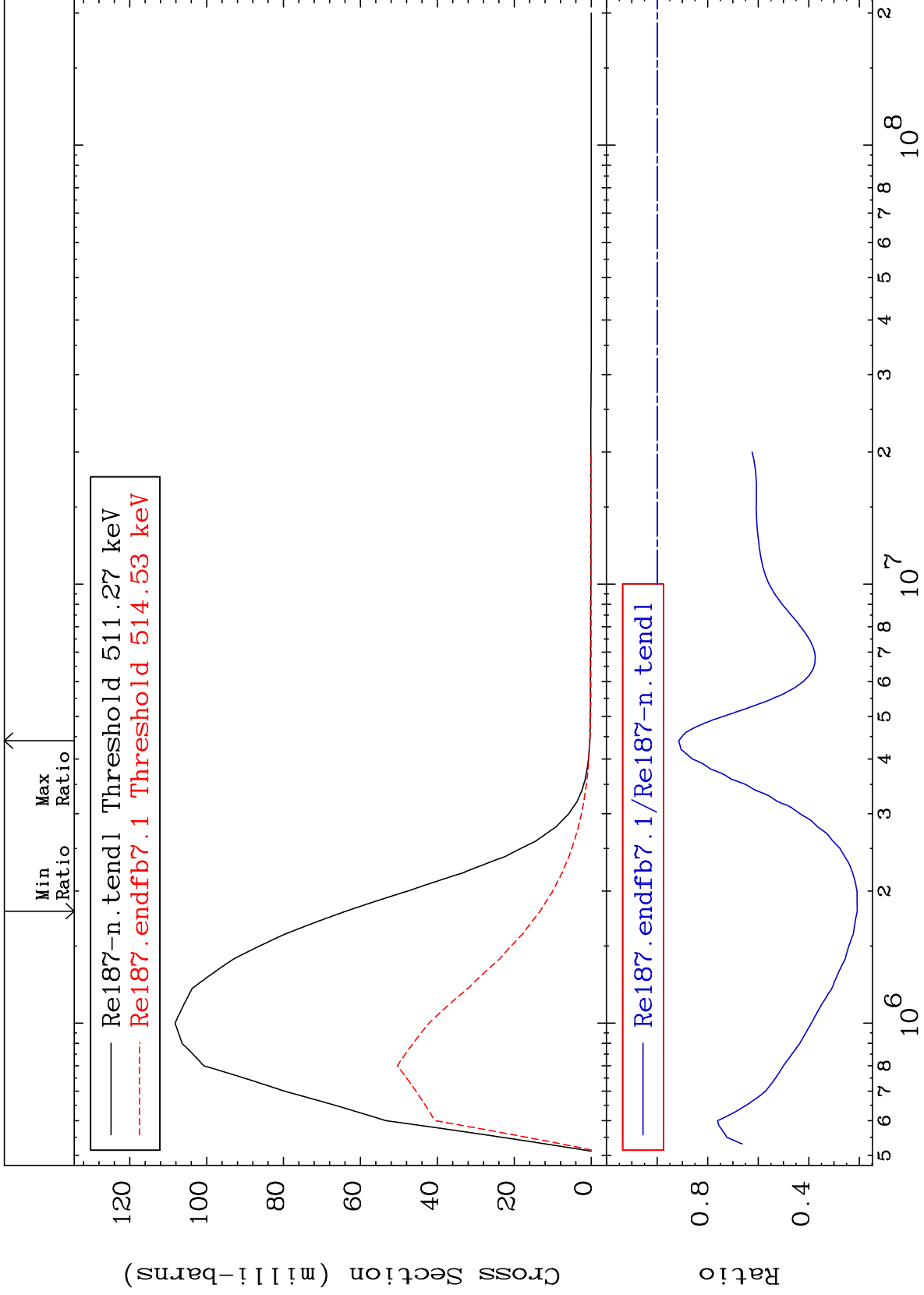
<sup>75</sup>Re-<sup>187</sup>  
-78.87 To 50.44 %



MAT 7531

508.5 keV (n,n') Level  
Cross Section

<sup>75</sup>Re-<sup>187</sup>  
-79.18 To -8.509%



12

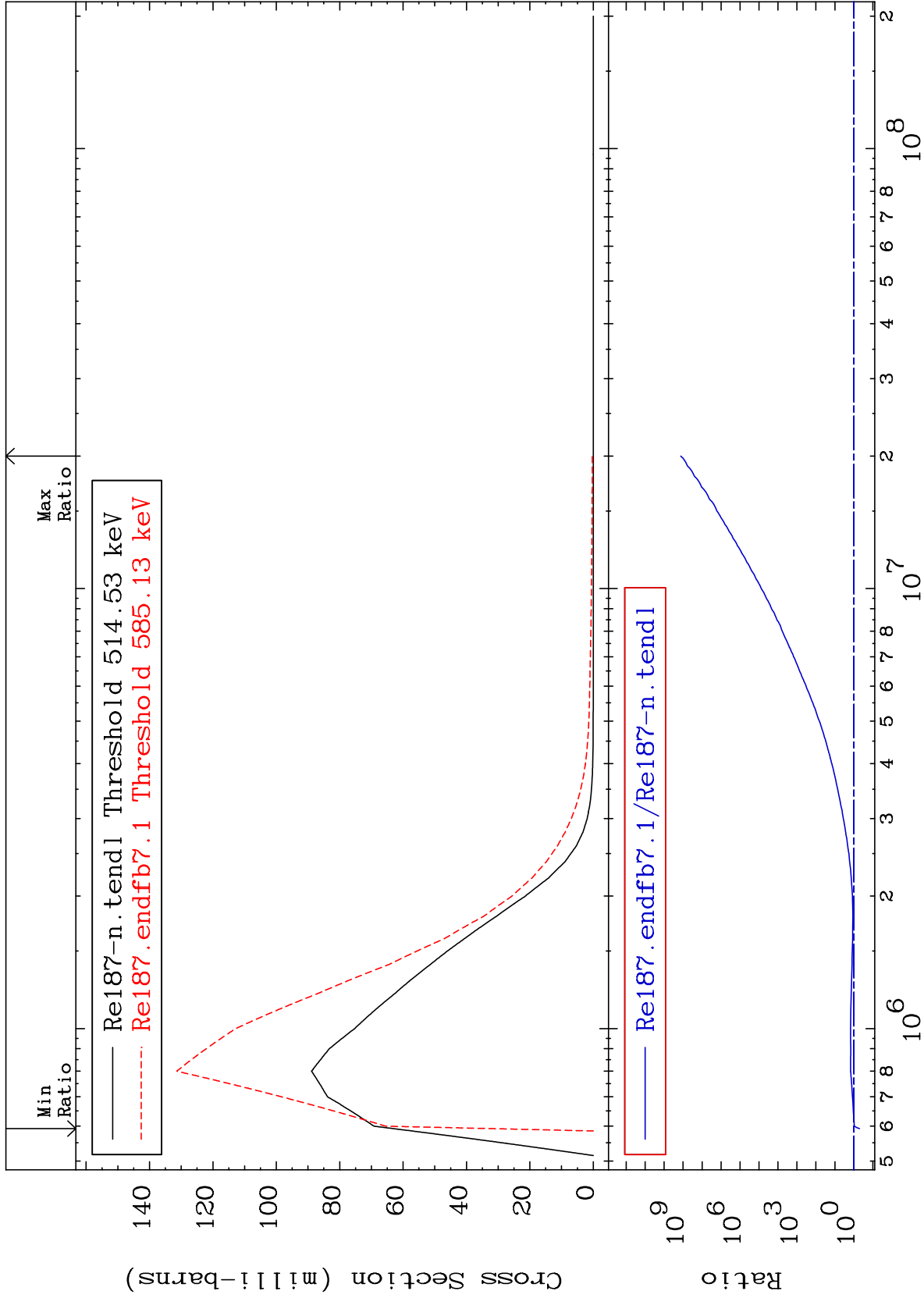
Incident Energy (eV)

<sup>75</sup>Re-<sup>187</sup>

MAT 7531

511.8 keV (n,n') Level  
Cross Section

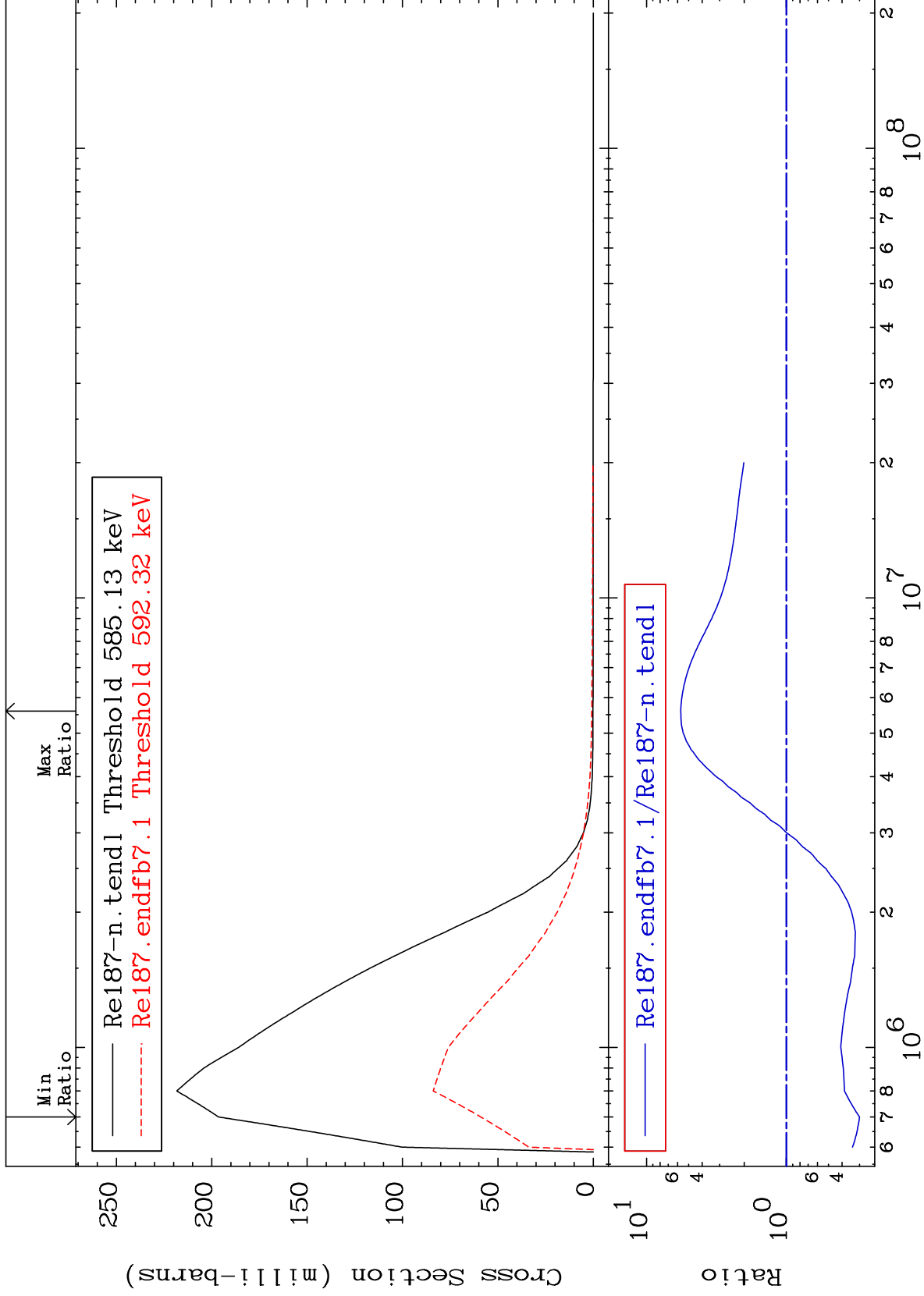
<sup>75</sup>Re-<sup>187</sup>Re  
-49.75 To 9999. %



MAT 7531

582.0 keV (n,n') Level  
Cross Section

<sup>75</sup>Re-<sup>187</sup>  
-70.02 To 468.9 %



14

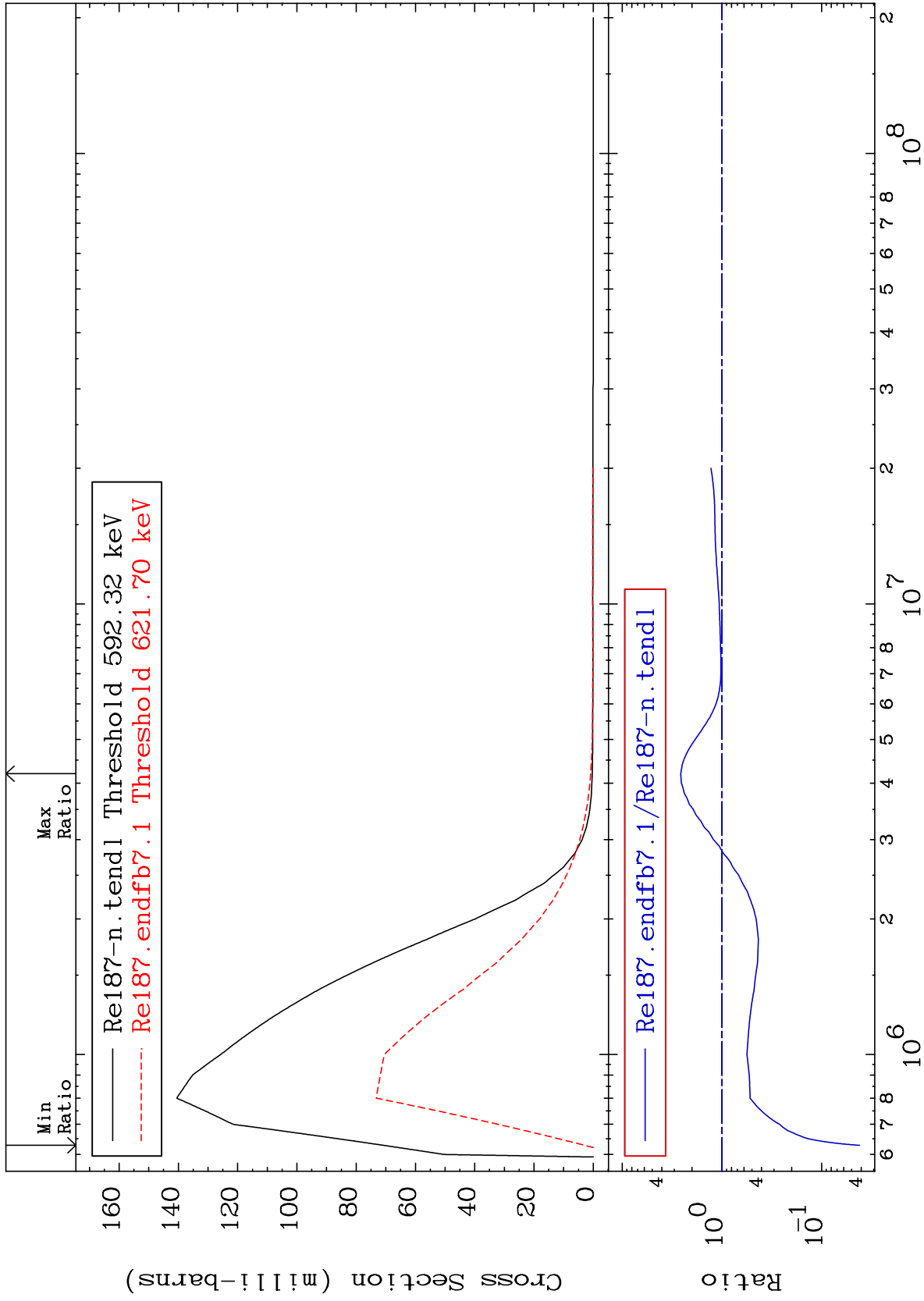
Incident Energy (eV)

<sup>75</sup>Re-<sup>187</sup>

MAT 7531

589.1 keV (n,n') Level  
Cross Section

75-Re-187  
-95.84 To 158.4 %



15

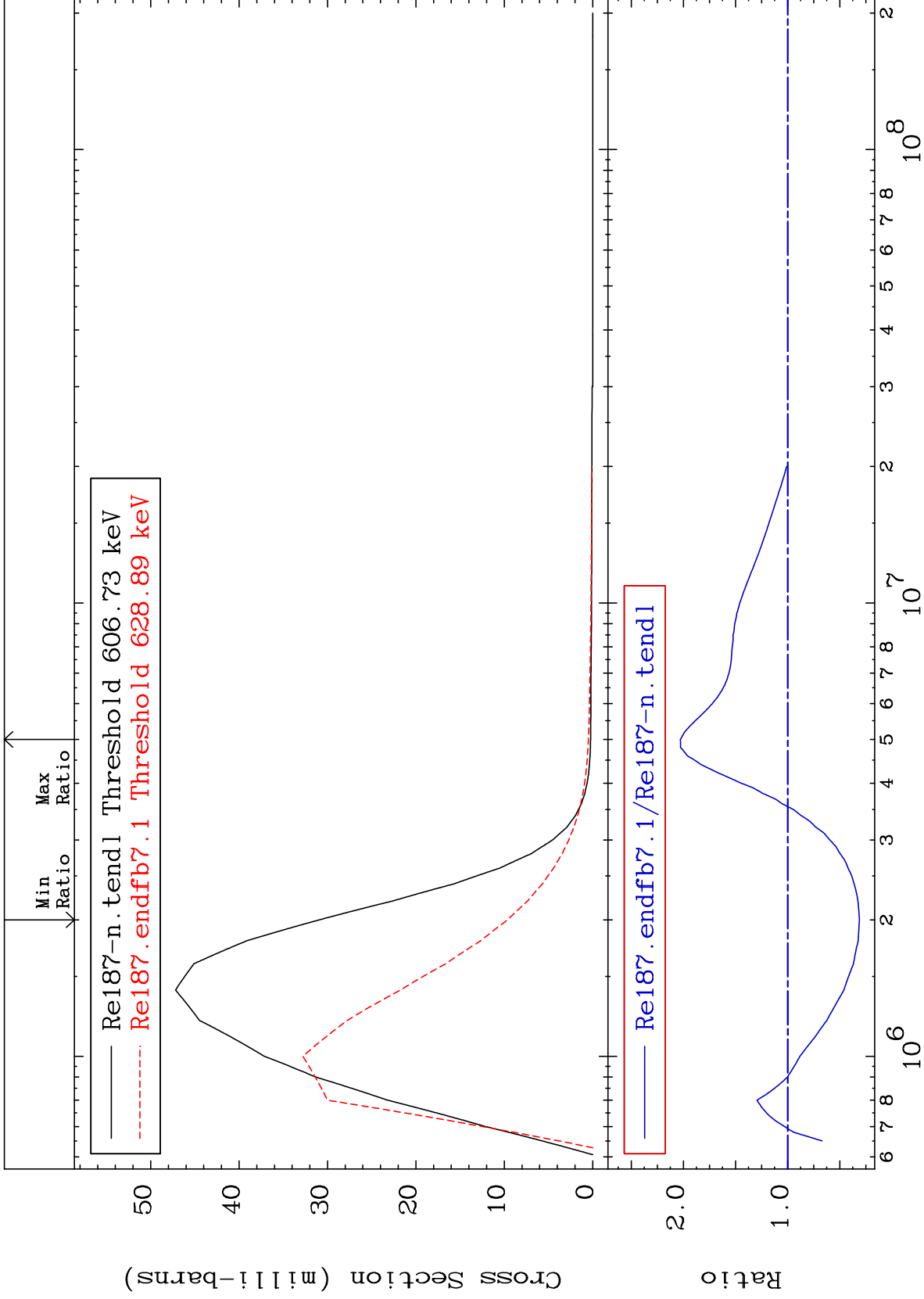
Incident Energy (eV)

75-Re-187

MAT 7531

603.5 keV (n,n') Level  
Cross Section

<sup>75</sup>Re-<sup>187</sup>  
-68.87 To 102.9 %



16

Incident Energy (eV)

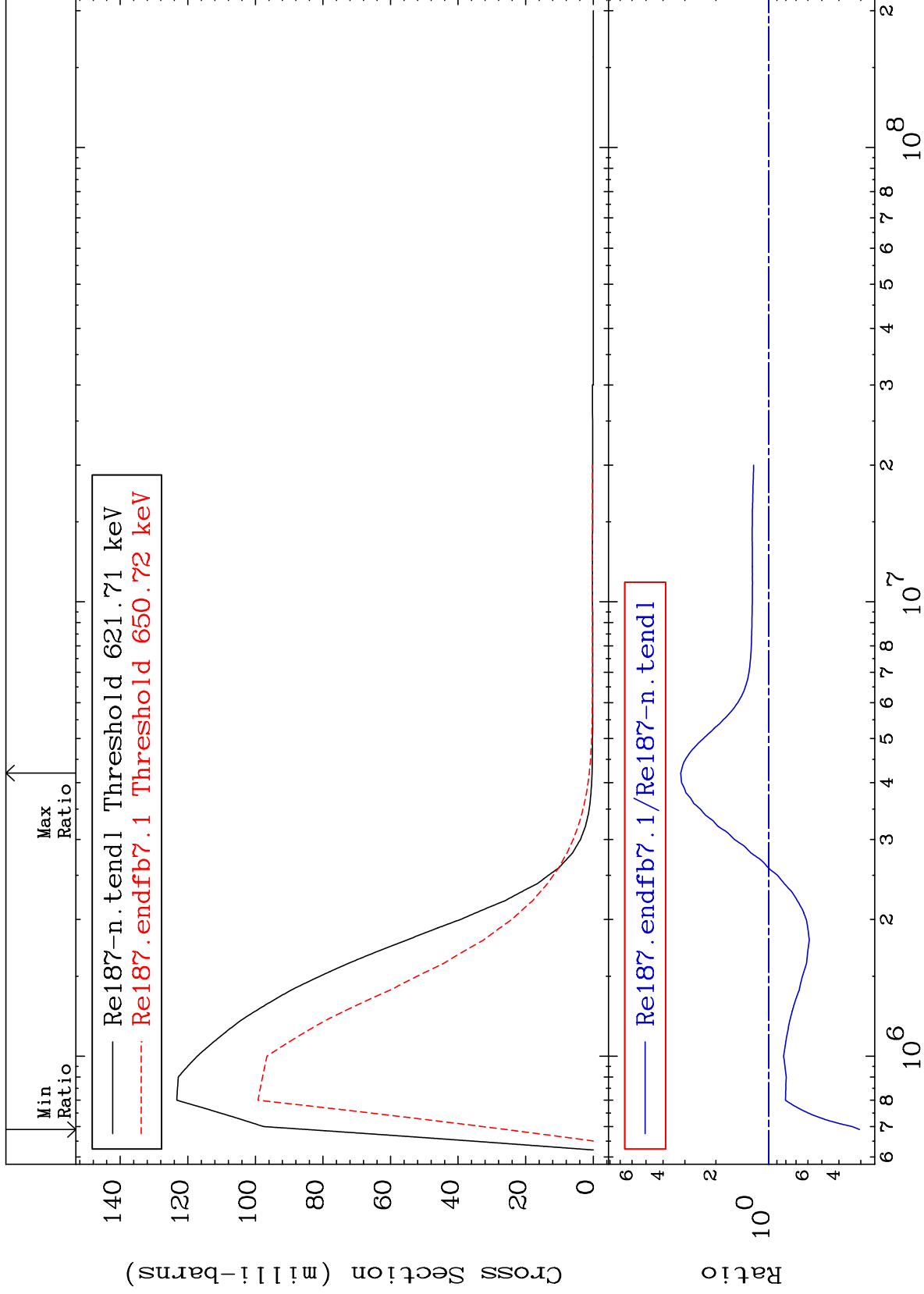
<sup>75</sup>Re-<sup>187</sup>



MAT 7531

618.4 keV (n,n') Level  
Cross Section

<sup>75</sup>Re-<sup>187</sup>  
-69.50 To 216.8 %



17

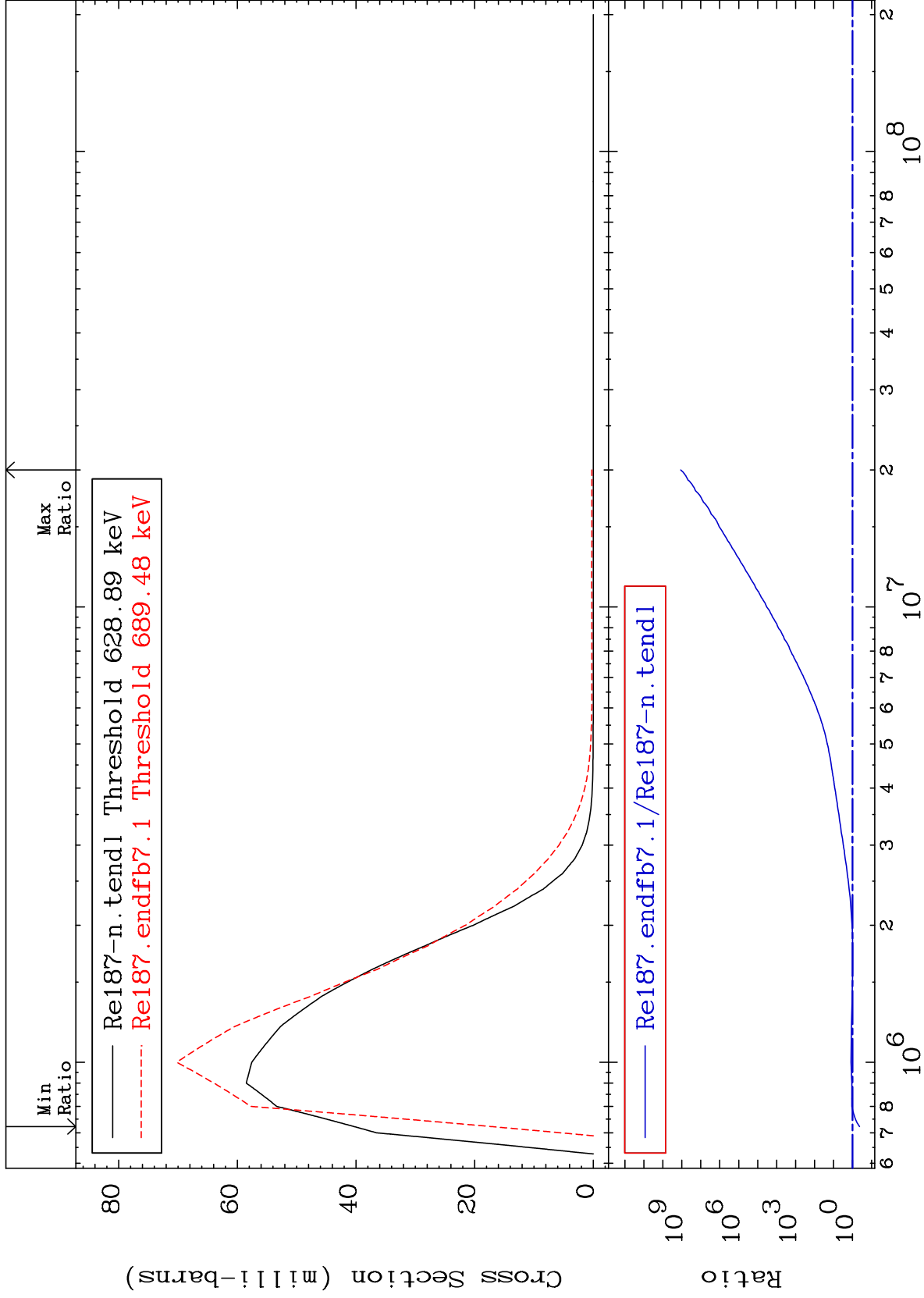
Incident Energy (eV)

<sup>75</sup>Re-<sup>187</sup>

MAT 7531

625.5 keV (n,n') Level  
Cross Section

<sup>75</sup>Re-<sup>187</sup>  
-57.12 To 9999. %



18

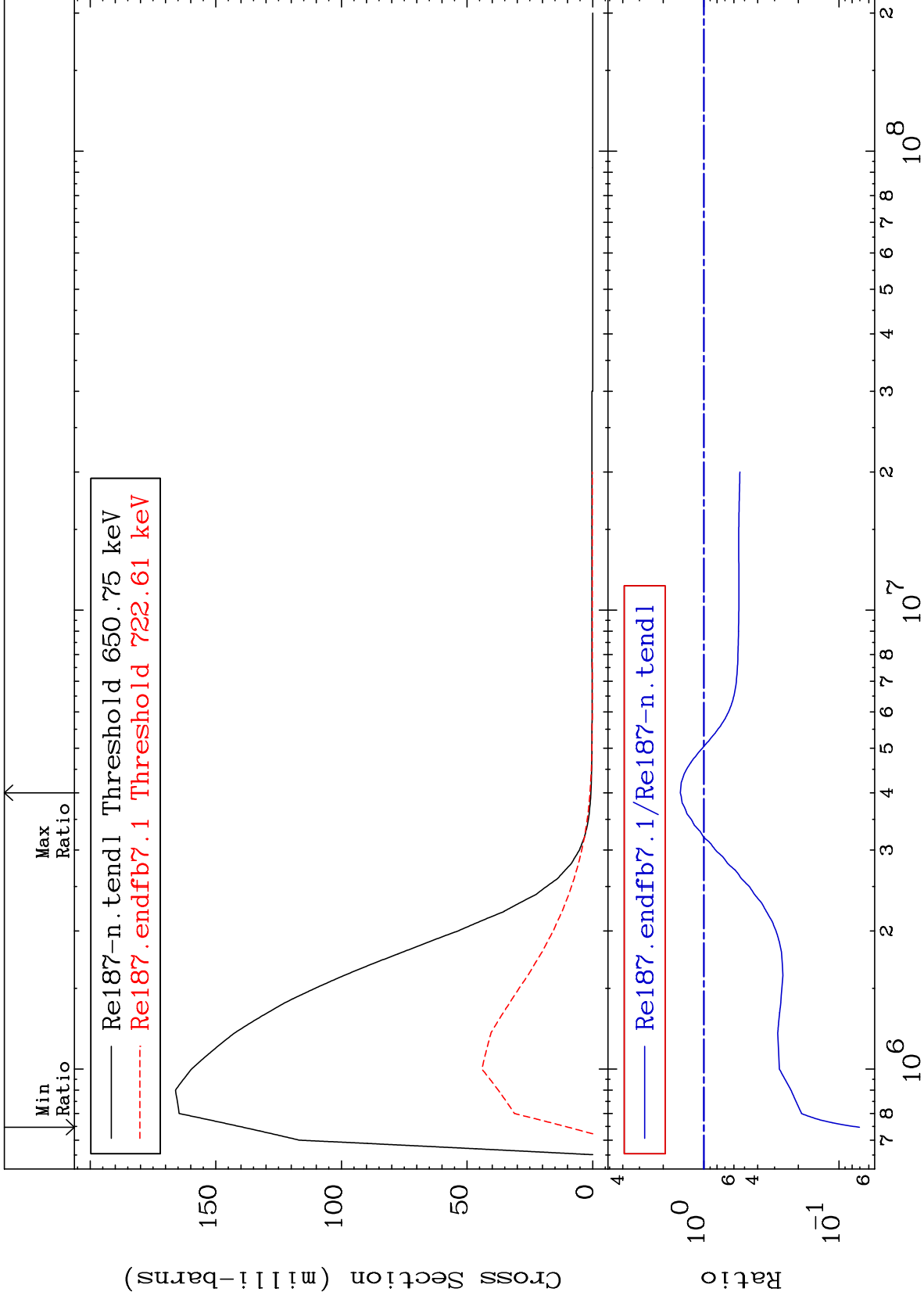
Incident Energy (eV)

<sup>75</sup>Re-<sup>187</sup>

MAT 7531

647.3 keV (n,n') Level  
Cross Section

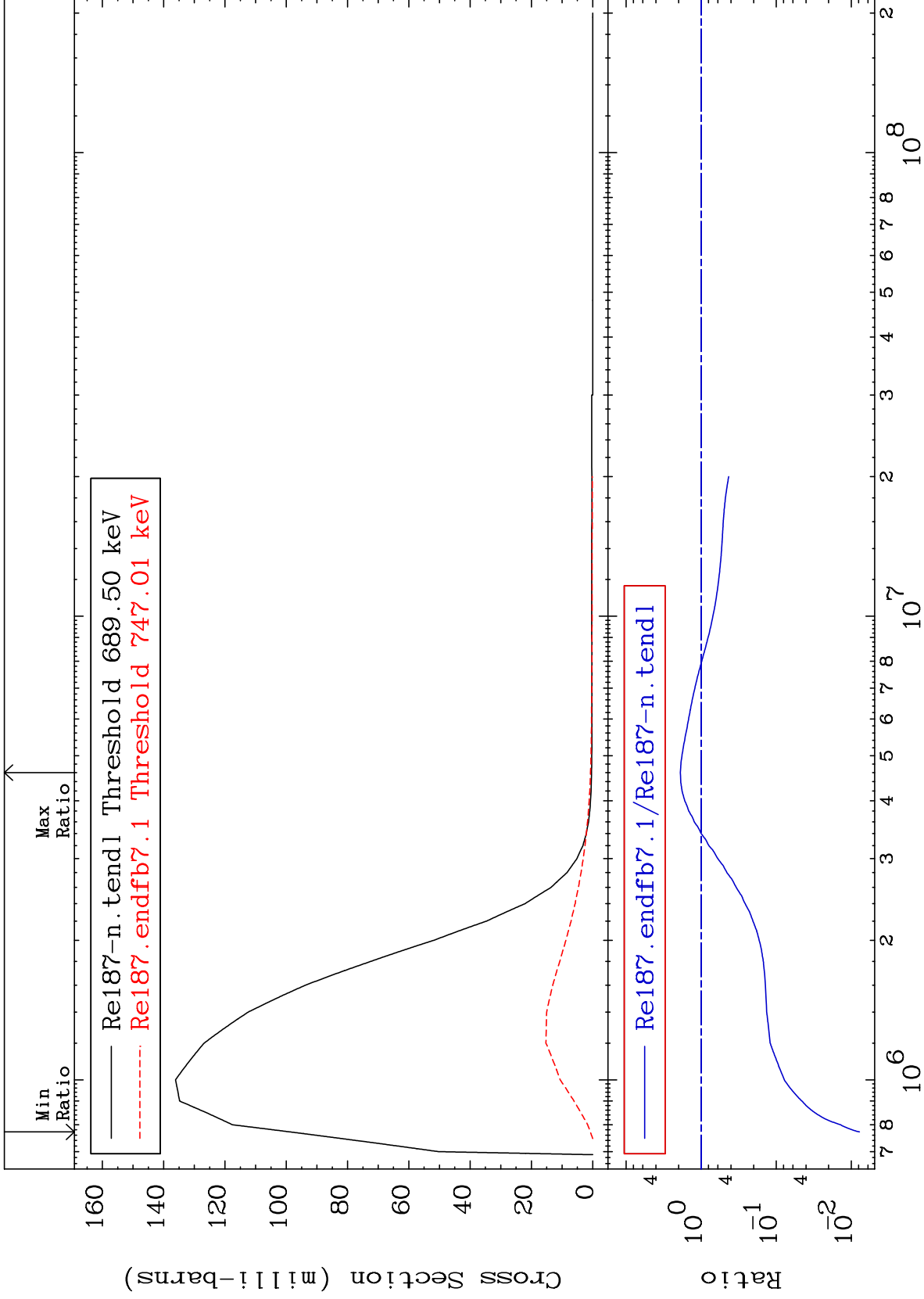
<sup>75</sup>Re-<sup>187</sup>  
-92.95 To 49.54 %



MAT 7531

685.8 keV (n,n') Level  
Cross Section

75-Re-187  
-99.22 To 89.33 %



20

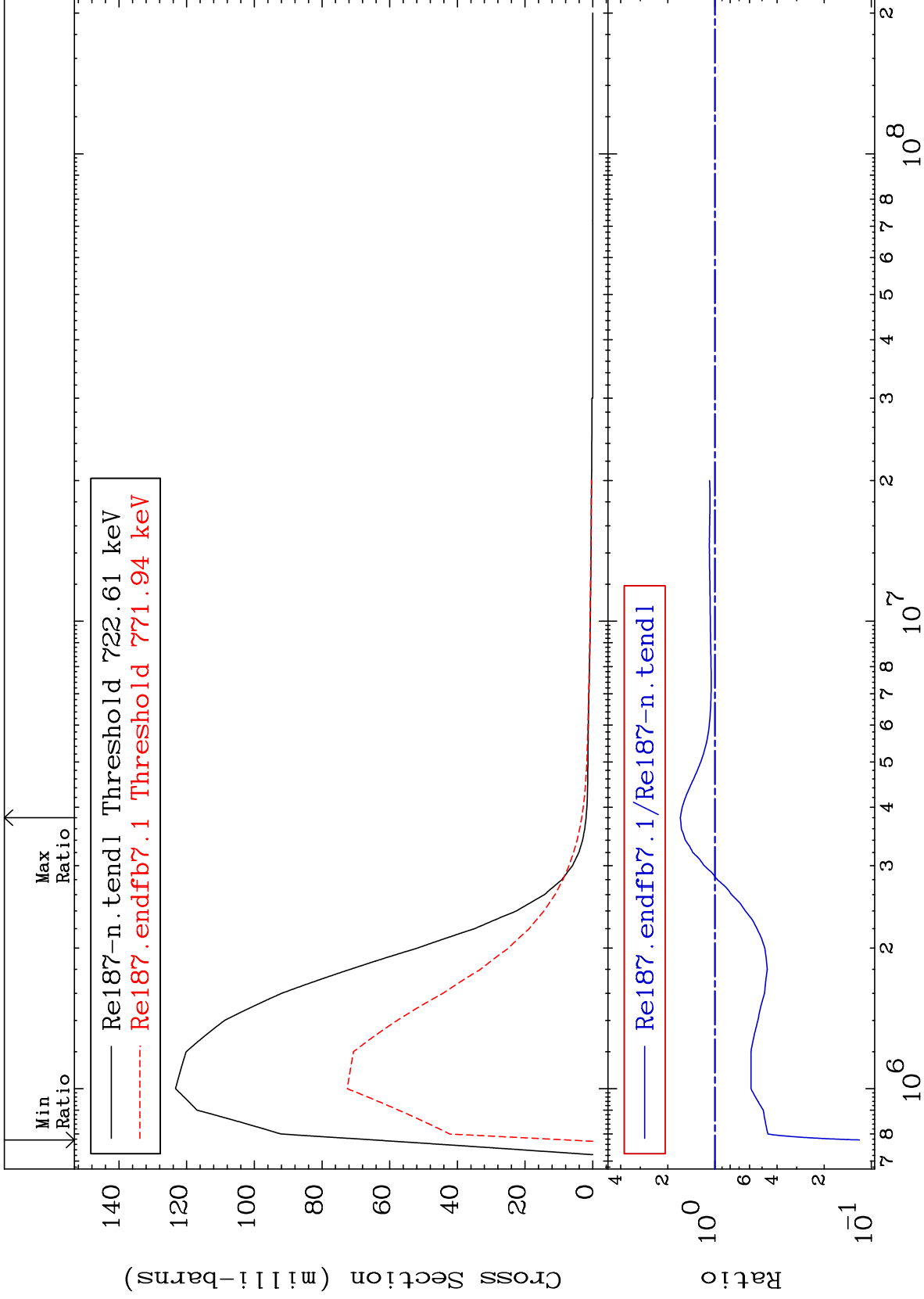
Incident Energy (eV)

75-Re-187

MAT 7531

718.7 keV (n,n') Level  
Cross Section

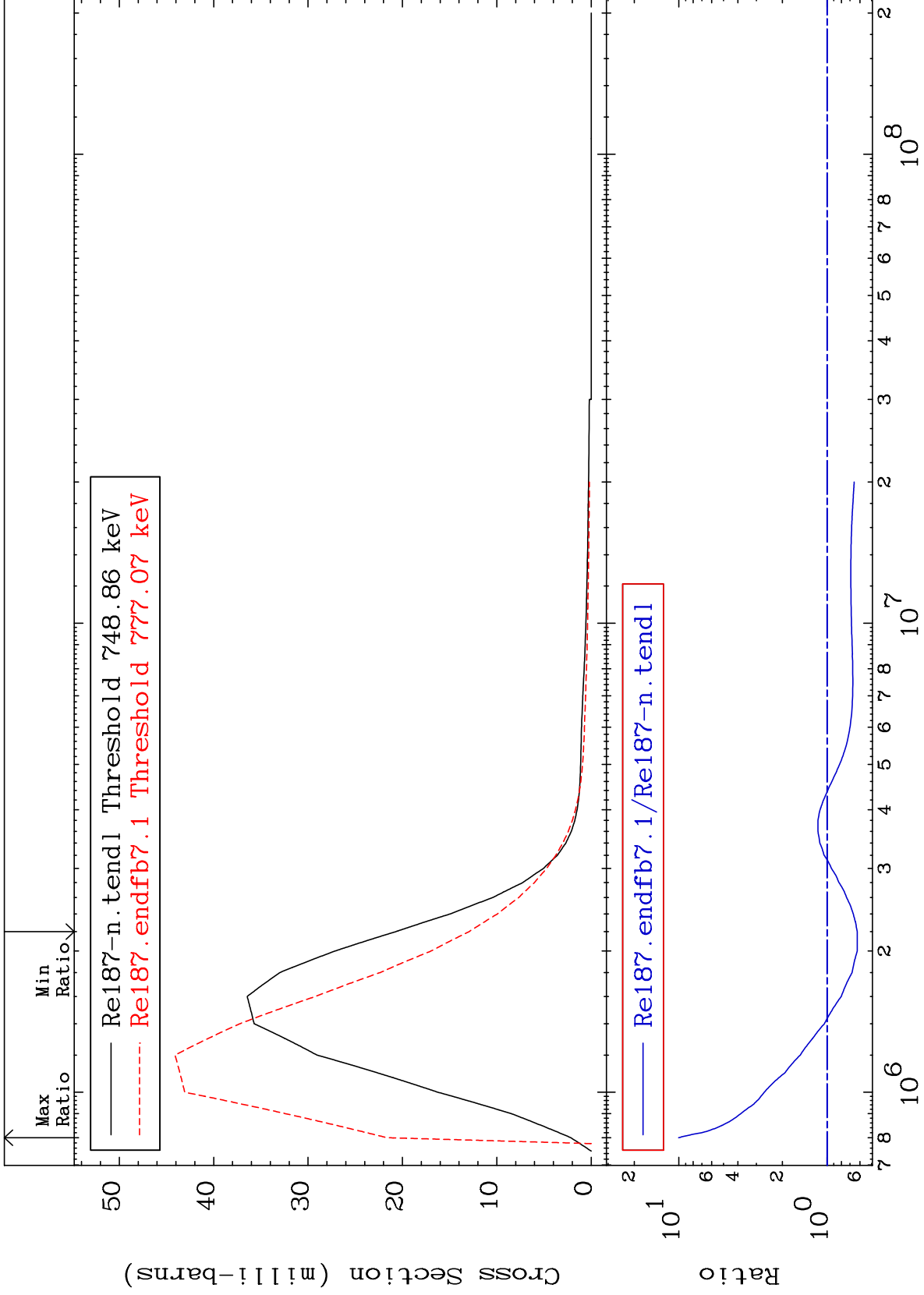
<sup>75</sup>Re-<sup>187</sup>  
-88.09 To 66.29 %



MAT 7531

744.8 keV (n,n') Level  
Cross Section

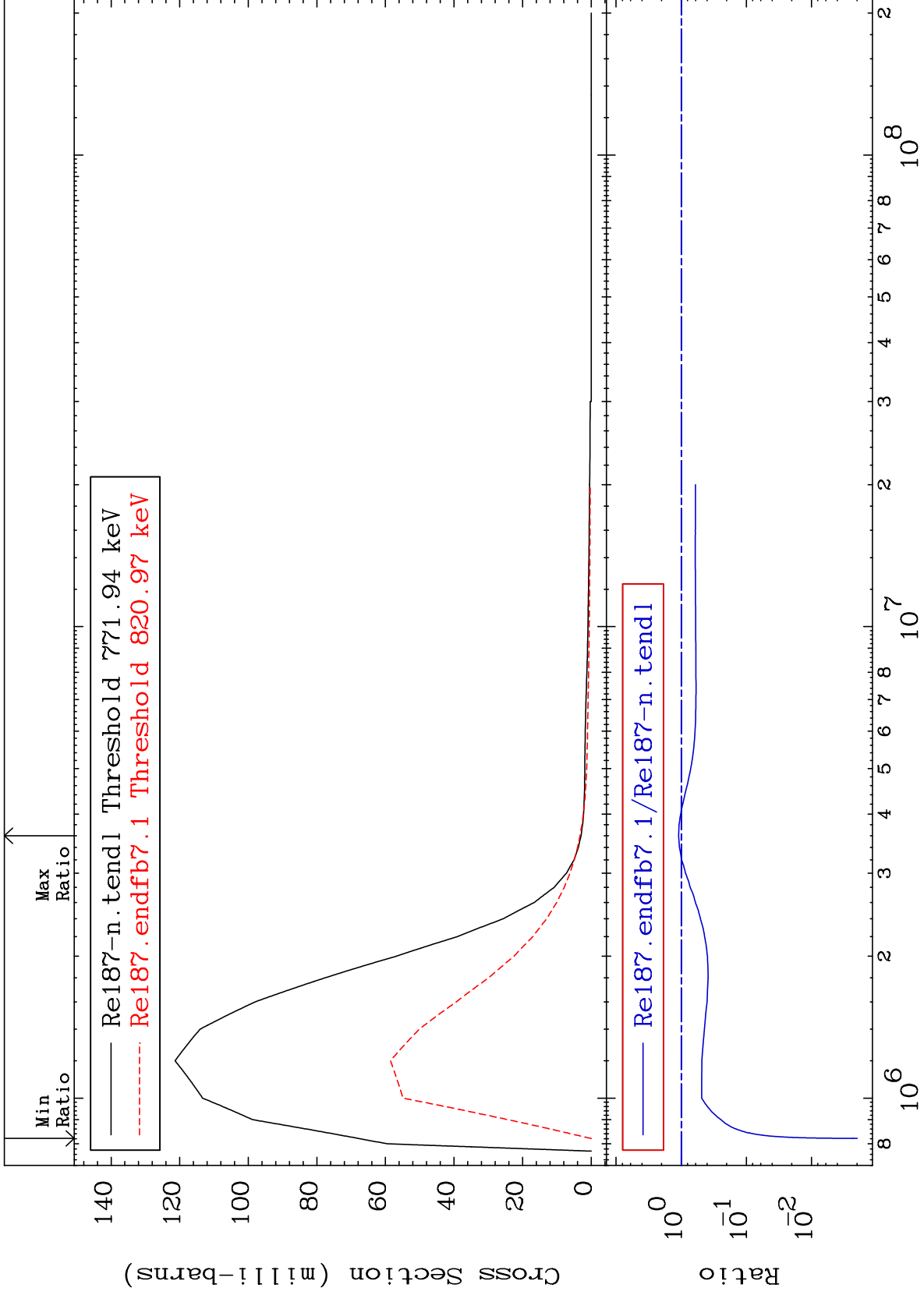
<sup>75</sup>Re-<sup>187</sup>  
-37.48 To 903.1 %



MAT 7531

767.8 keV (n,n') Level  
Cross Section

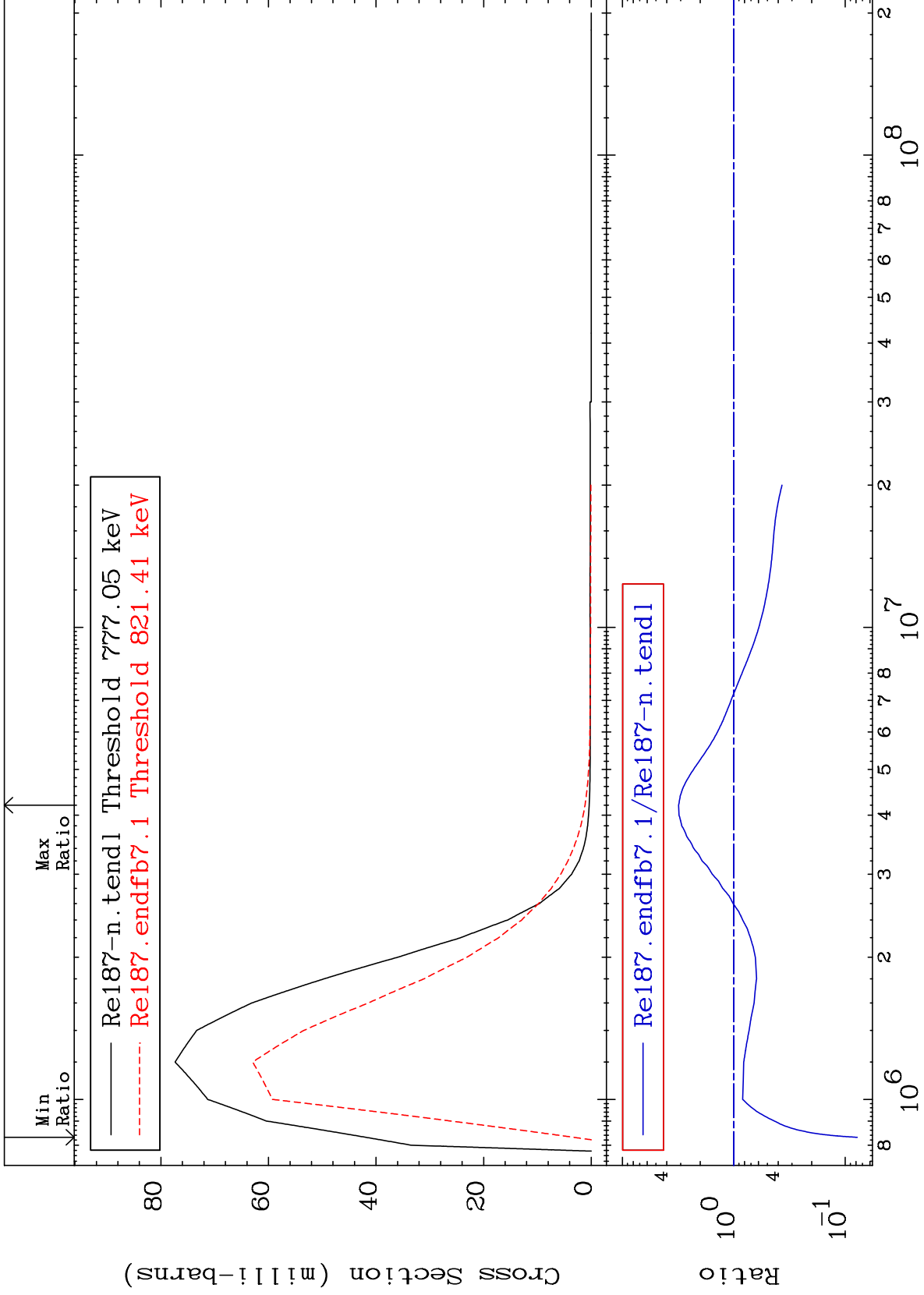
<sup>75</sup>Re-<sup>187</sup>Re  
-99.80 To 9.499 %



MAT 7531

772.9 keV (n,n') Level  
Cross Section

75-Re-187  
-92.20 To 212.6 %



24

Incident Energy (eV)

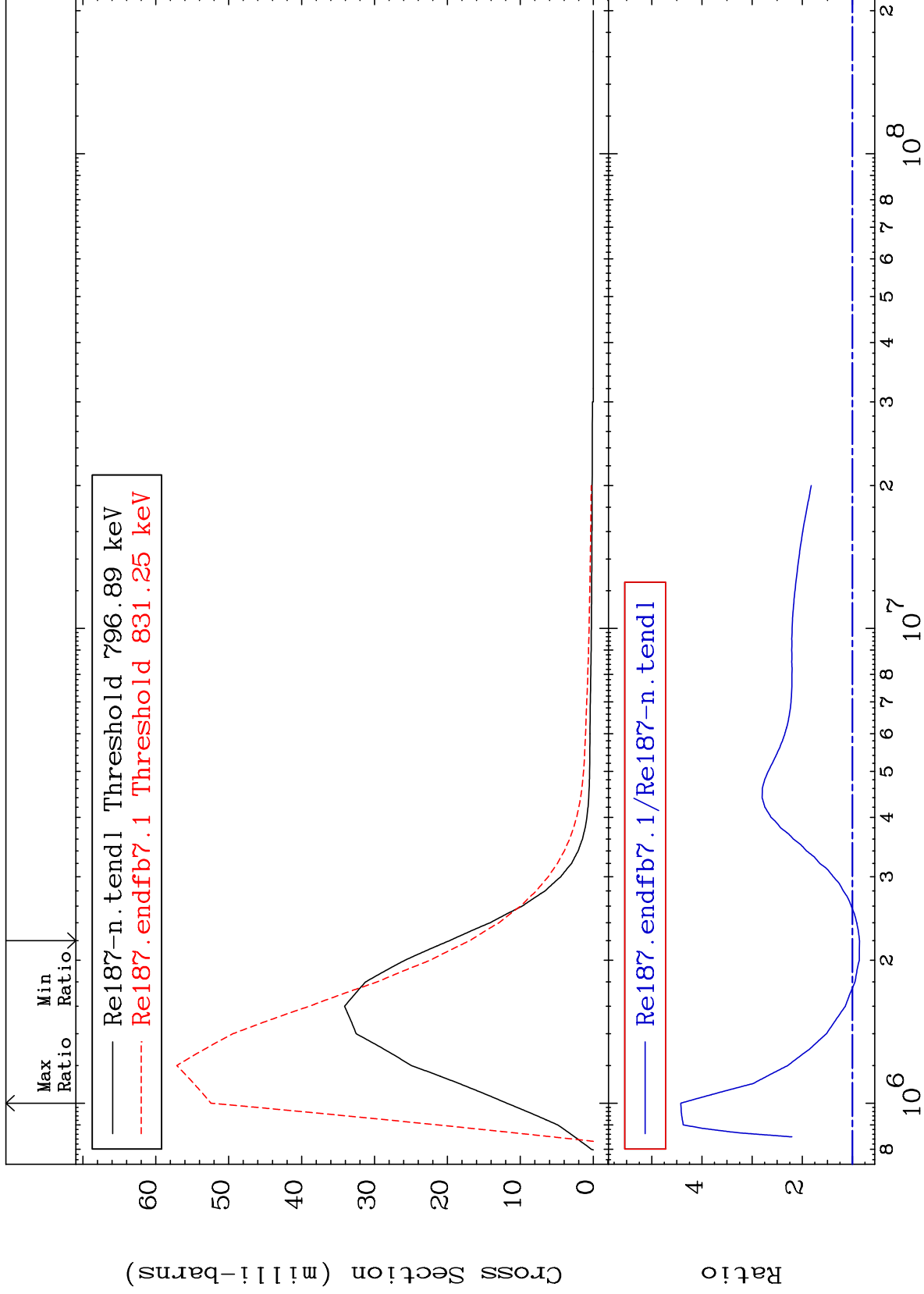
75-Re-187



MAT 7531

792.6 keV (n,n') Level  
Cross Section

<sup>75</sup>Re-<sup>187</sup>  
-14.09 To 342.2 %



25

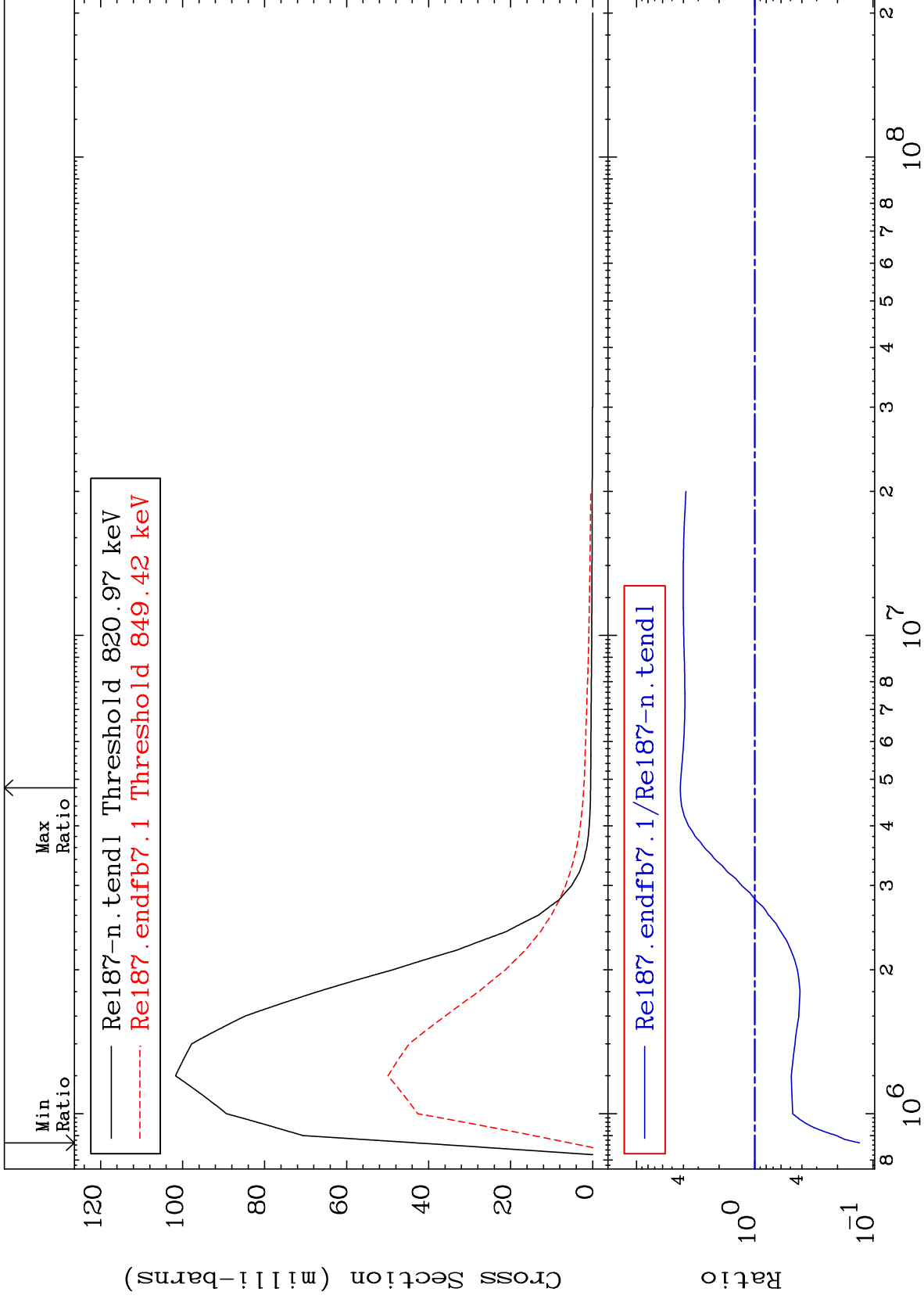
Incident Energy (eV)

<sup>75</sup>Re-<sup>187</sup>

MAT 7531

816.6 keV (n,n') Level  
Cross Section

<sup>75</sup>Re-<sup>187</sup>  
-86.96 To 325.4 %



26

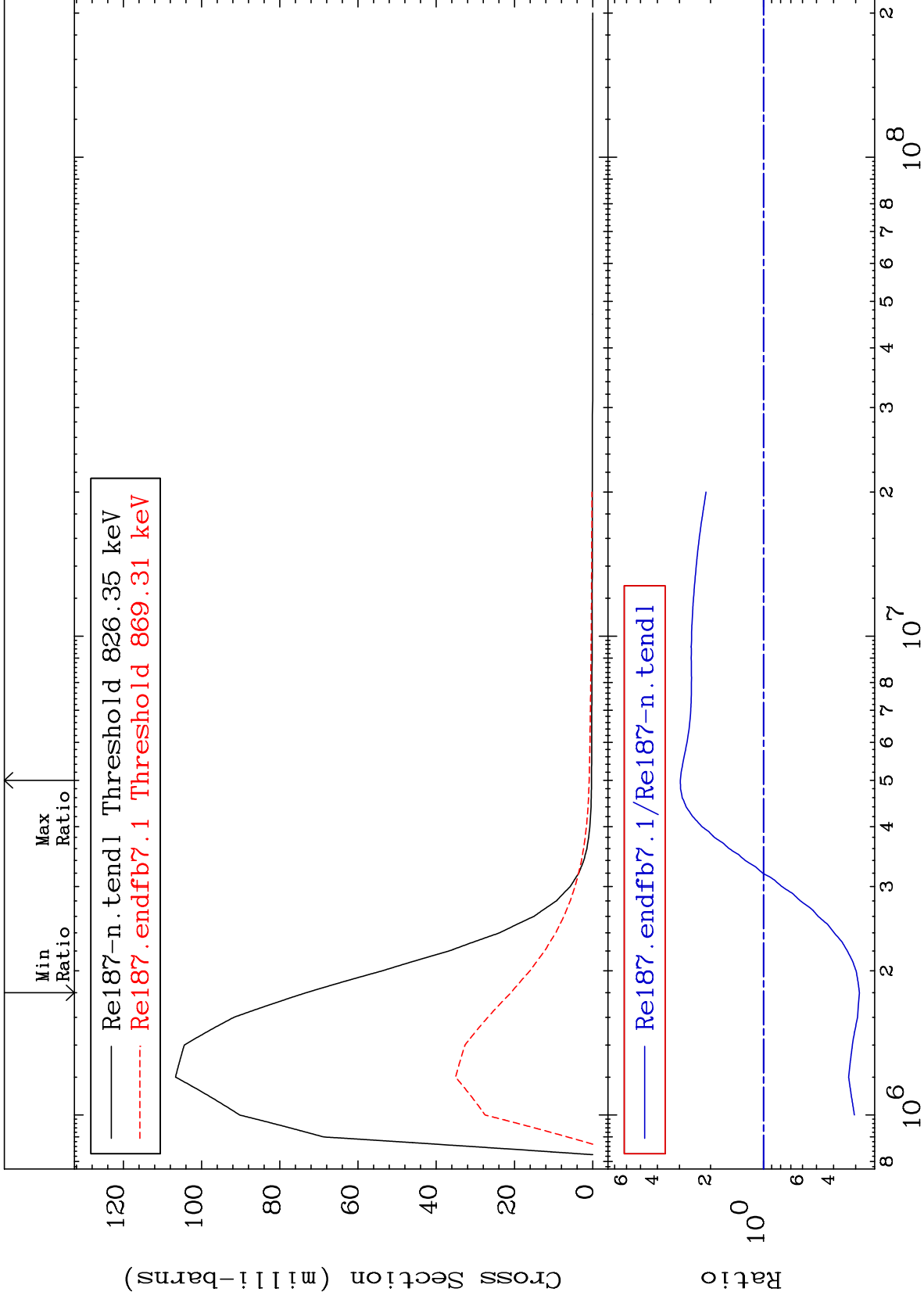
Incident Energy (eV)

<sup>75</sup>Re-<sup>187</sup>

MAT 7531

821.9 keV (n,n') Level  
Cross Section

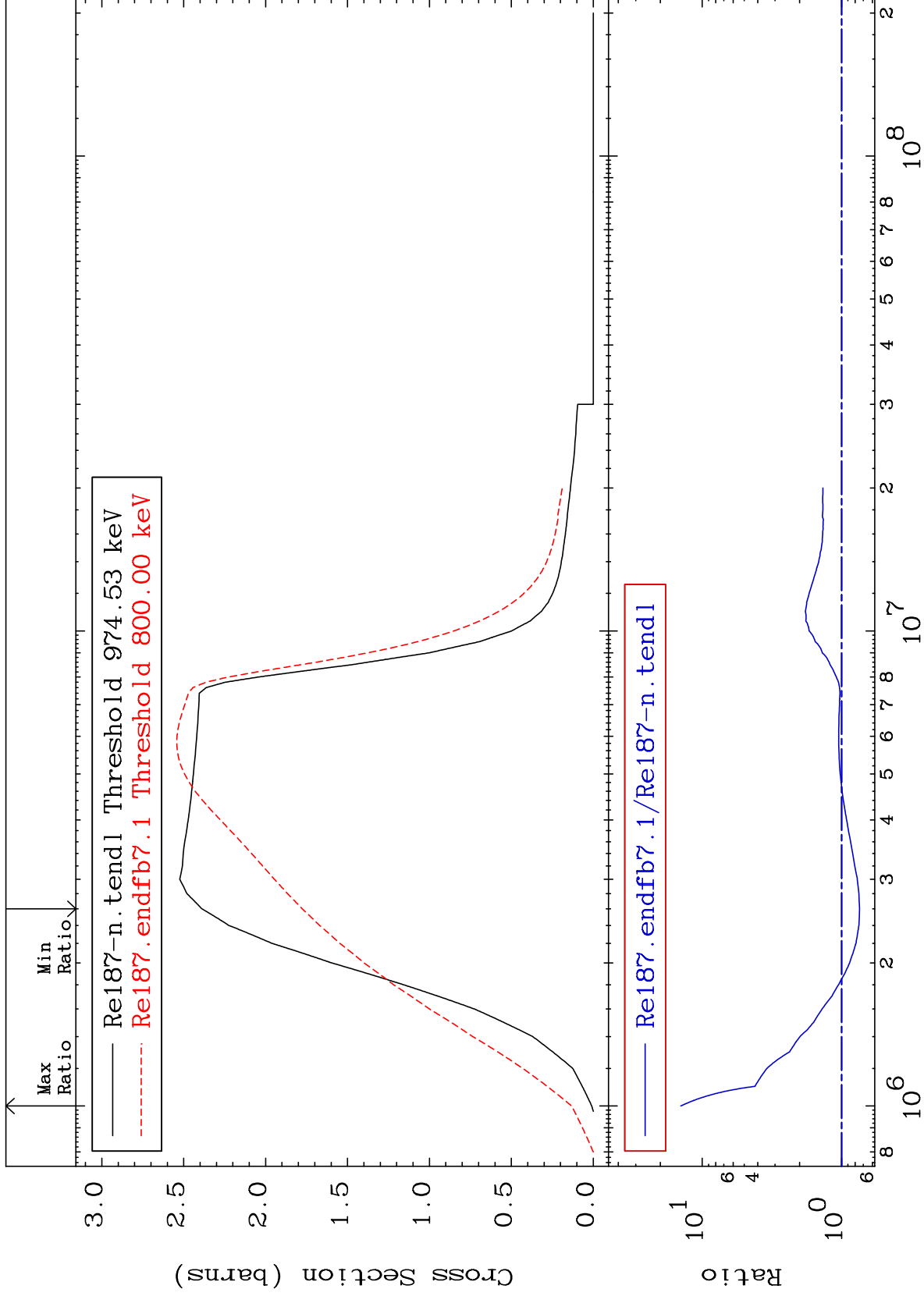
<sup>75</sup>Re-<sup>187</sup>  
-71.47 To 196.5 %



27

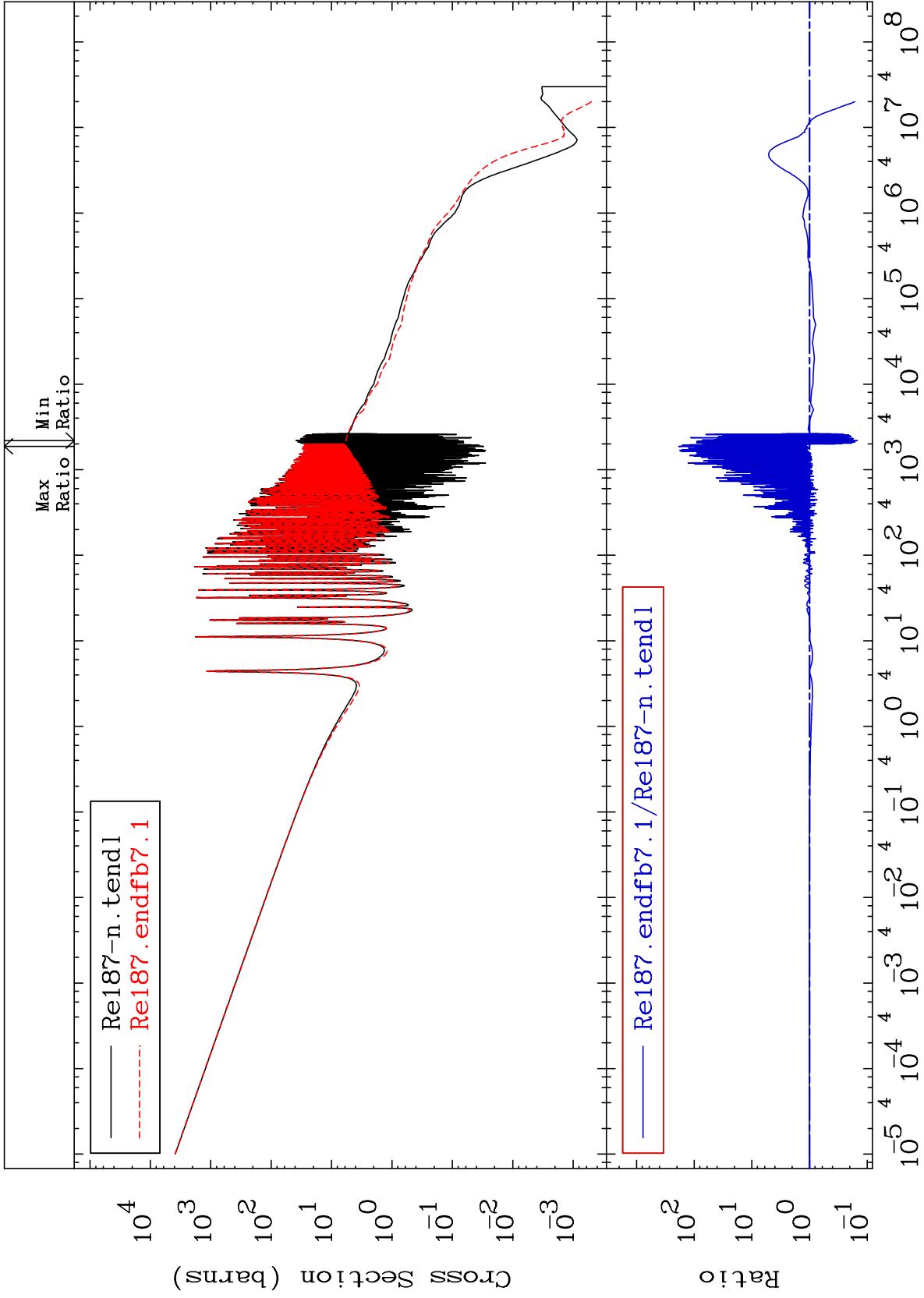
Incident Energy (eV)

<sup>75</sup>Re-<sup>187</sup>



MAT 7531

(n,  $\gamma$ )  
Cross Section  
75-Re-187  
-85.13 To 9999. %



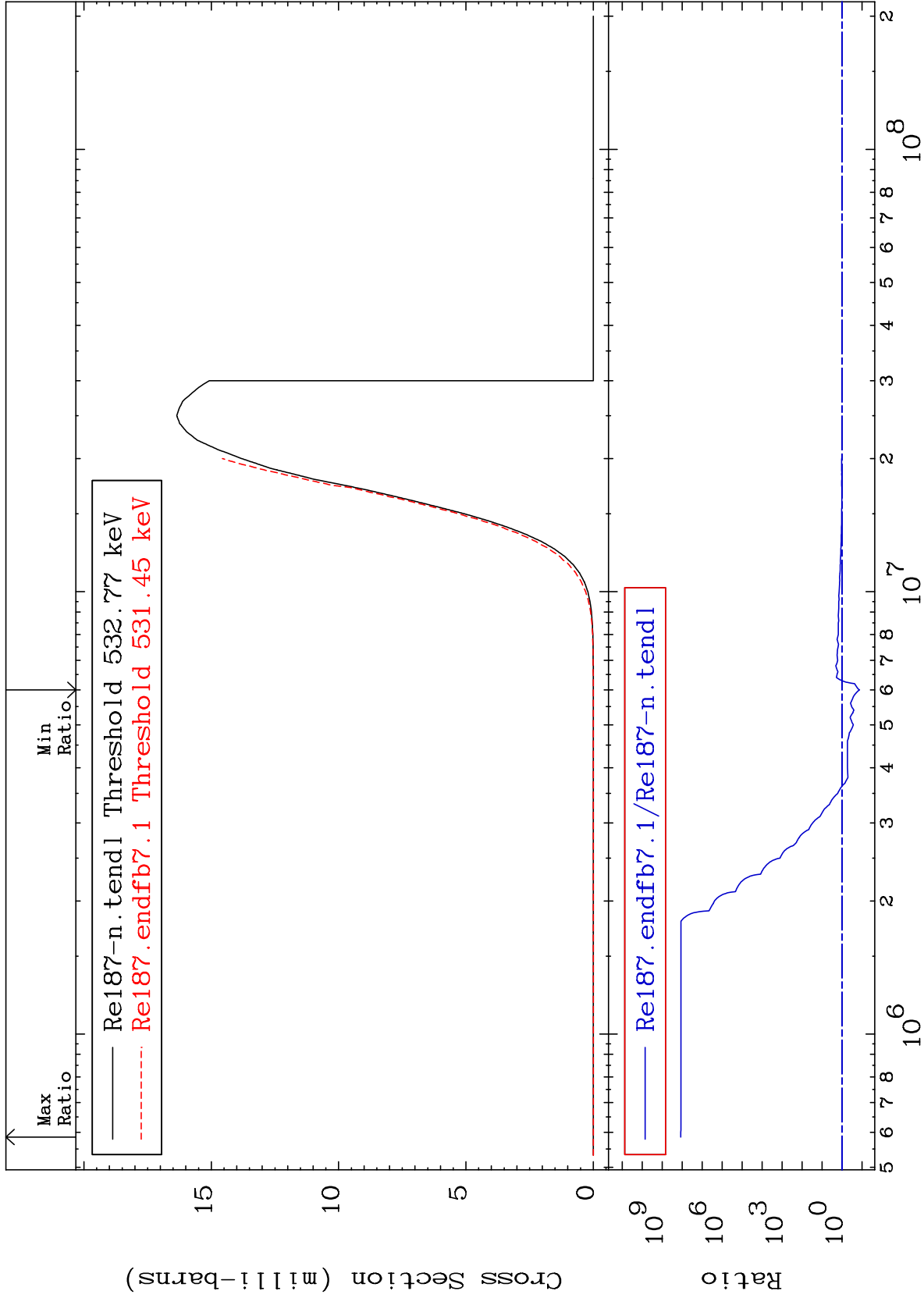
MAT 7531

(n,p)

<sup>75</sup>Re-187

Cross Section

-86.66 To 9999. %



30

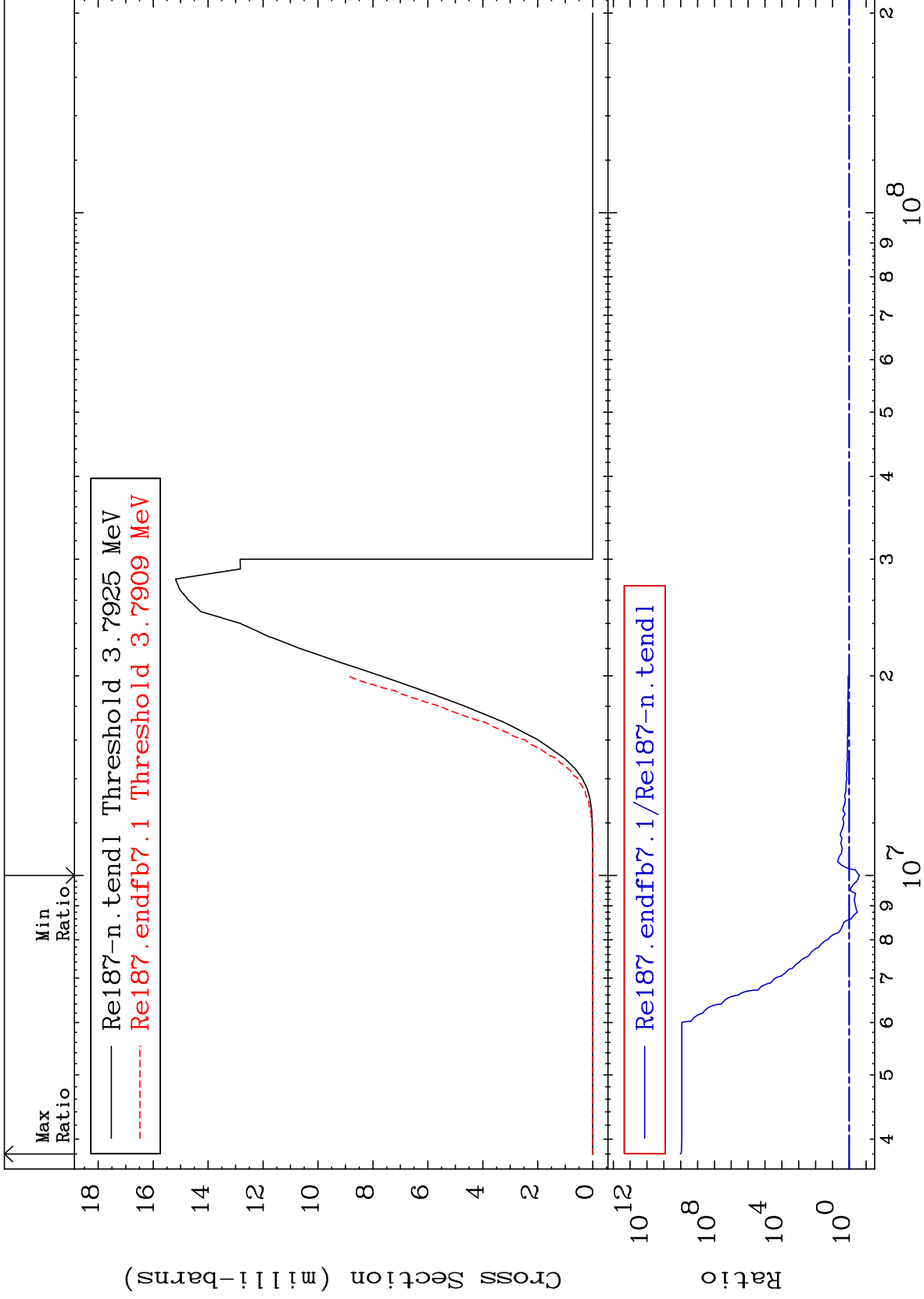
Incident Energy (eV)

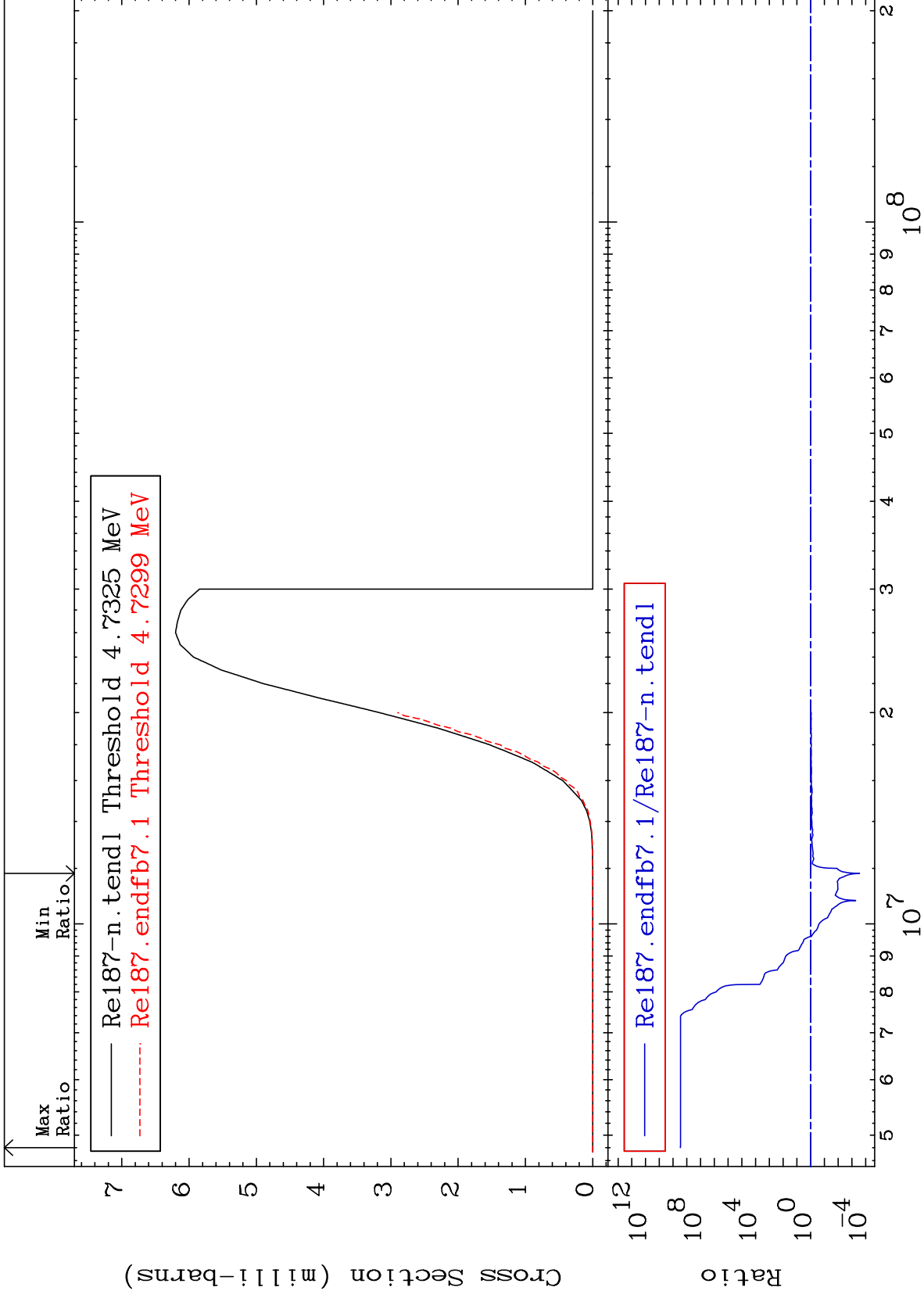
<sup>75</sup>Re-187

MAT 7531

(n, d)  
Cross Section

<sup>75</sup>Re-<sup>187</sup>Re  
-74.97 To 9999. %

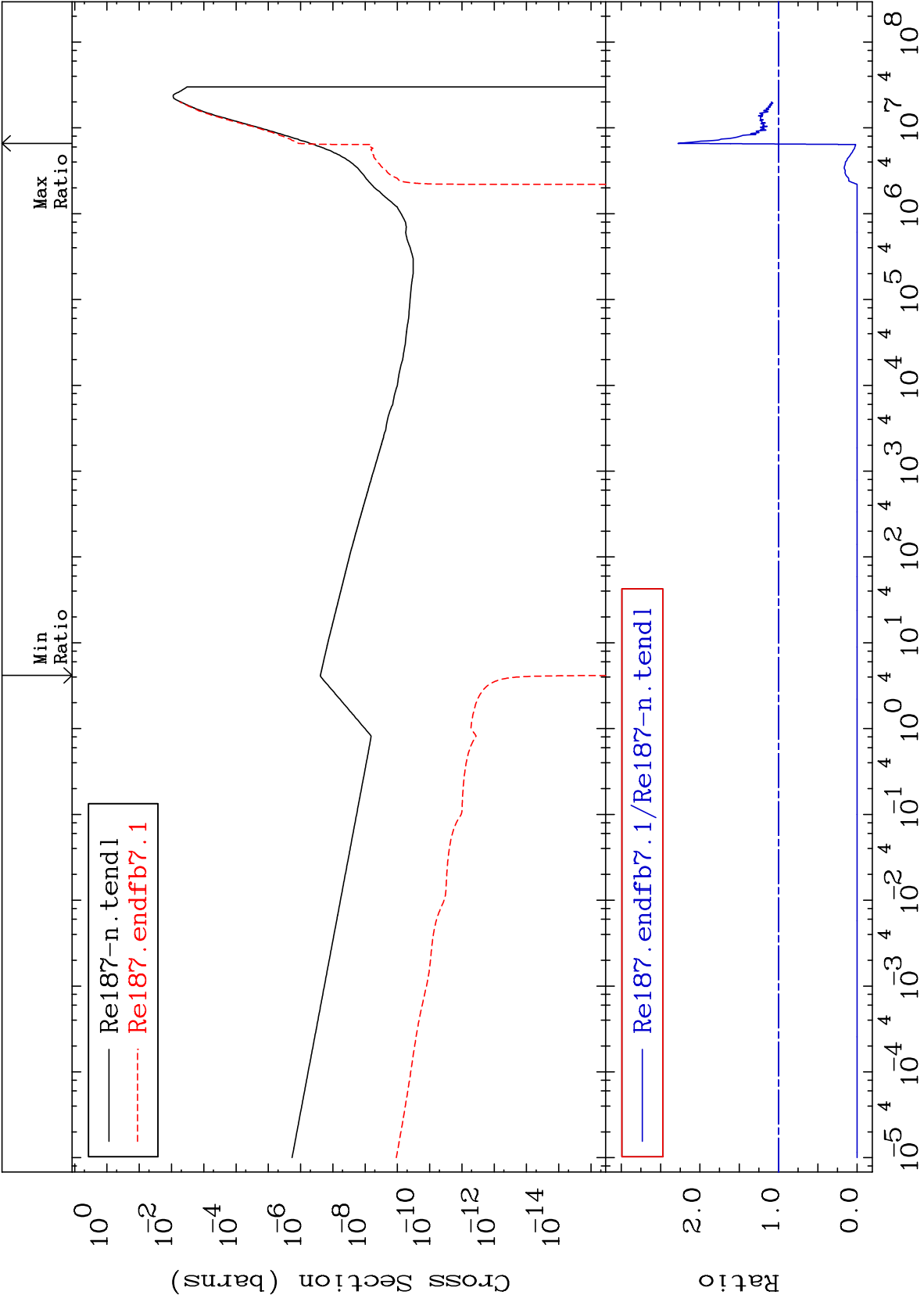


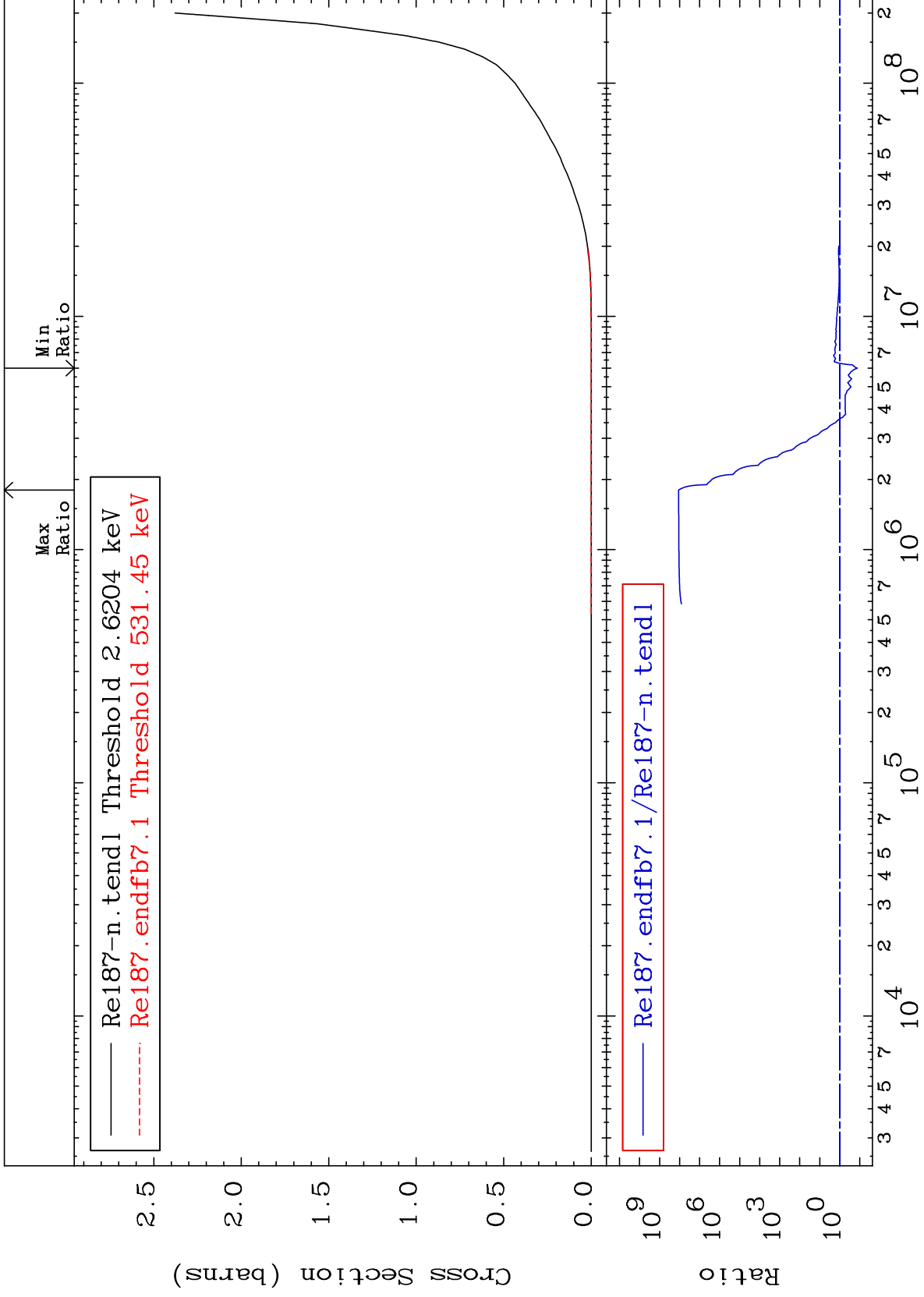




MAT 7531

(n,  $\alpha$ )  
Cross Section  
75-Re-187  
-100.0 To 127.8 %

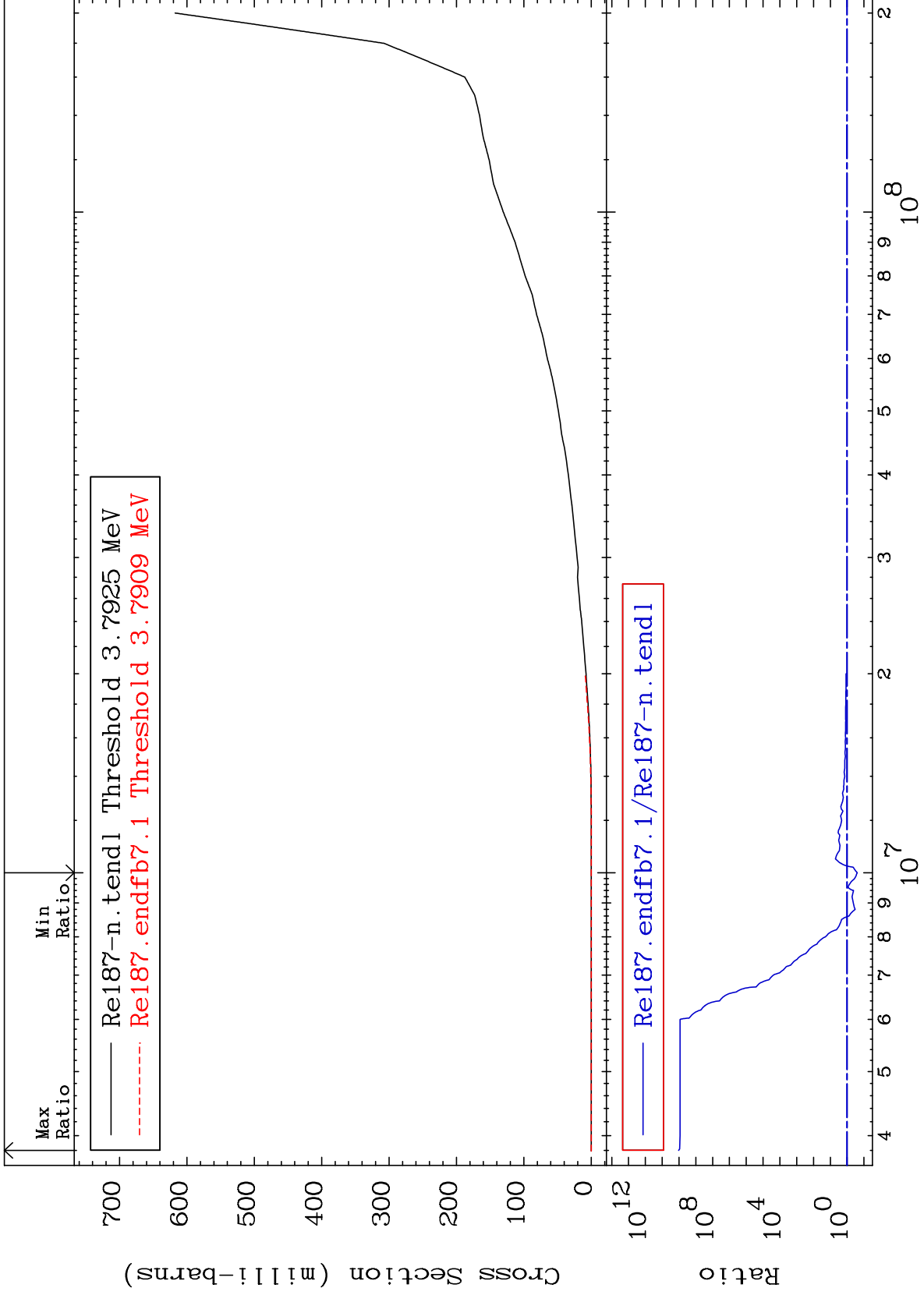




MAT 7531

Deuterium Production  
Cross Section

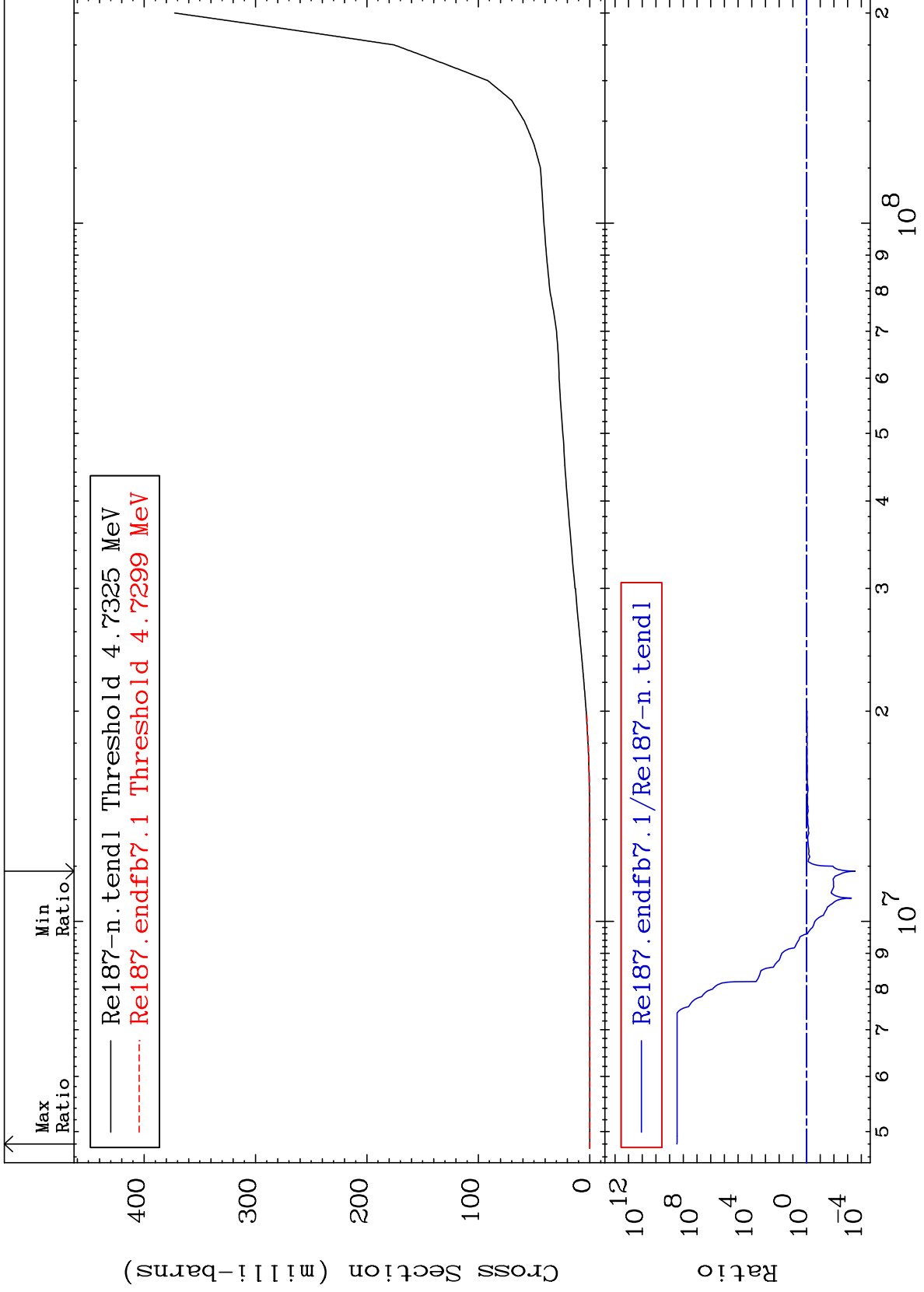
<sup>75</sup>Re-<sup>187</sup>  
-74.97 To 9999. %



MAT 7531

Tritium Production  
Cross Section

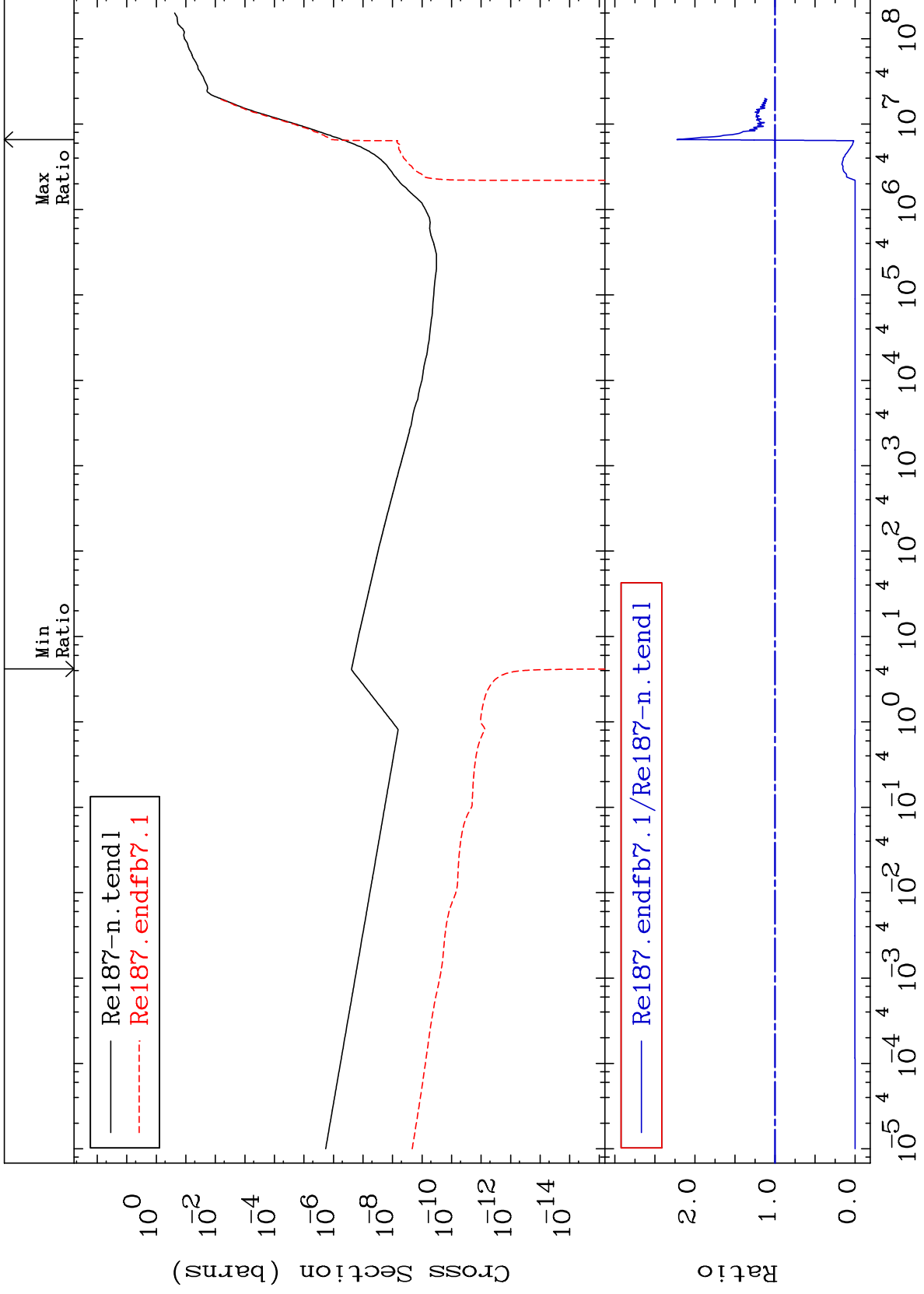
<sup>75</sup>Re-<sup>187</sup>  
-99.97 To 9999. %



MAT 7531

He-4 Production  
Cross Section

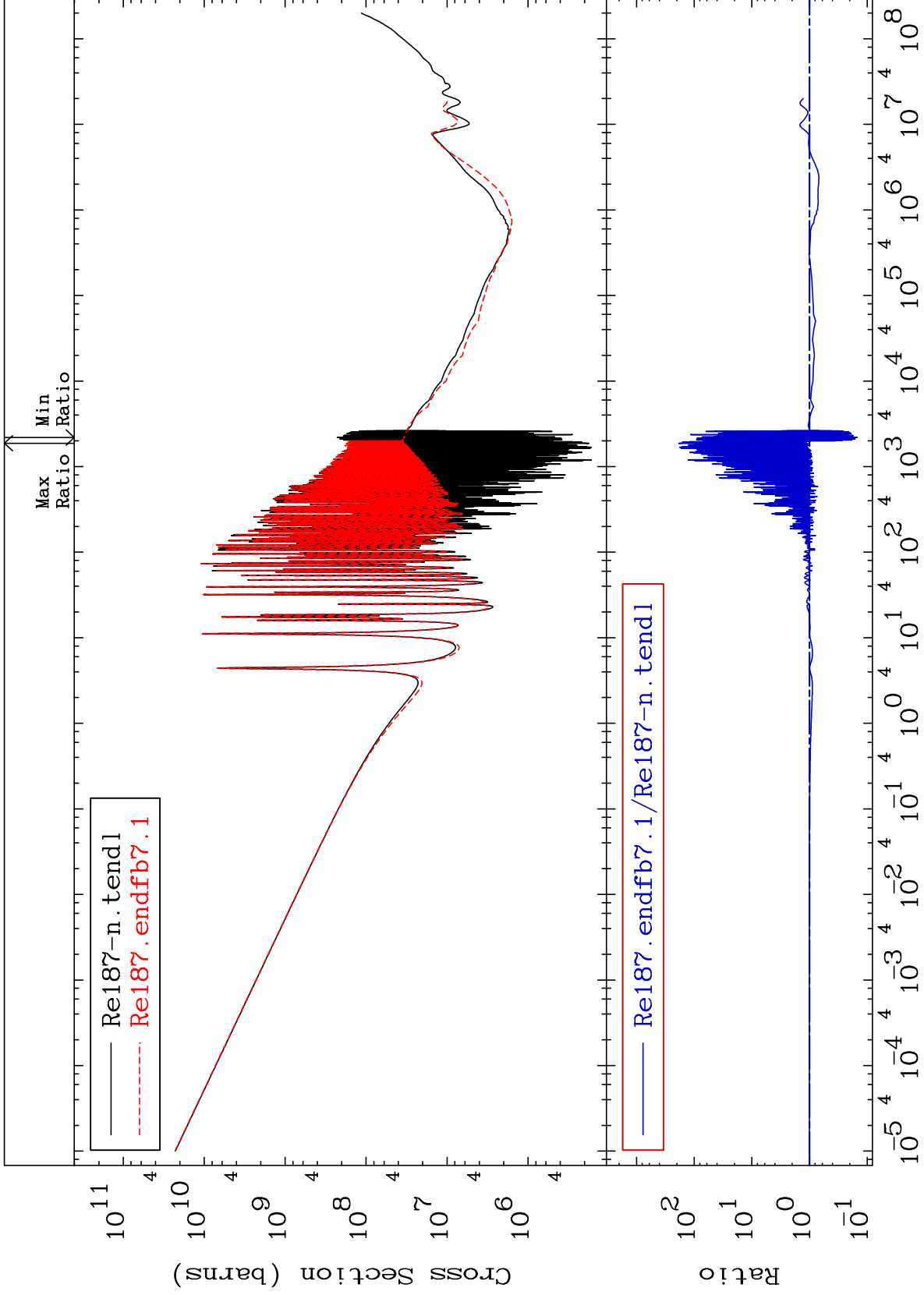
<sup>75</sup>Re-<sup>187</sup>Re  
-100.0 To 122.5 %



37

Incident Energy (eV)

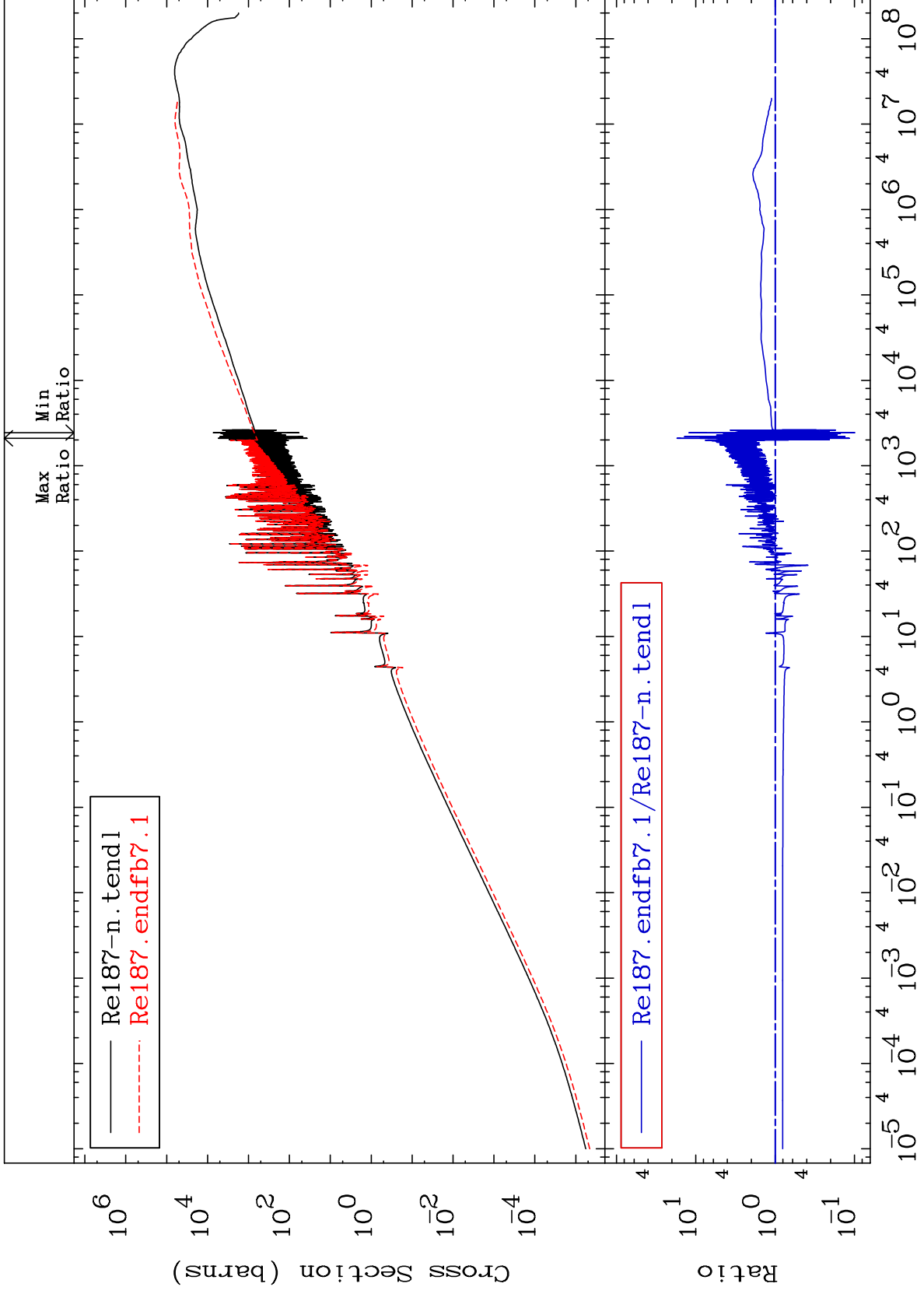
<sup>75</sup>Re-<sup>187</sup>Re



MAT 7531

Kerma elastic  
Cross Section

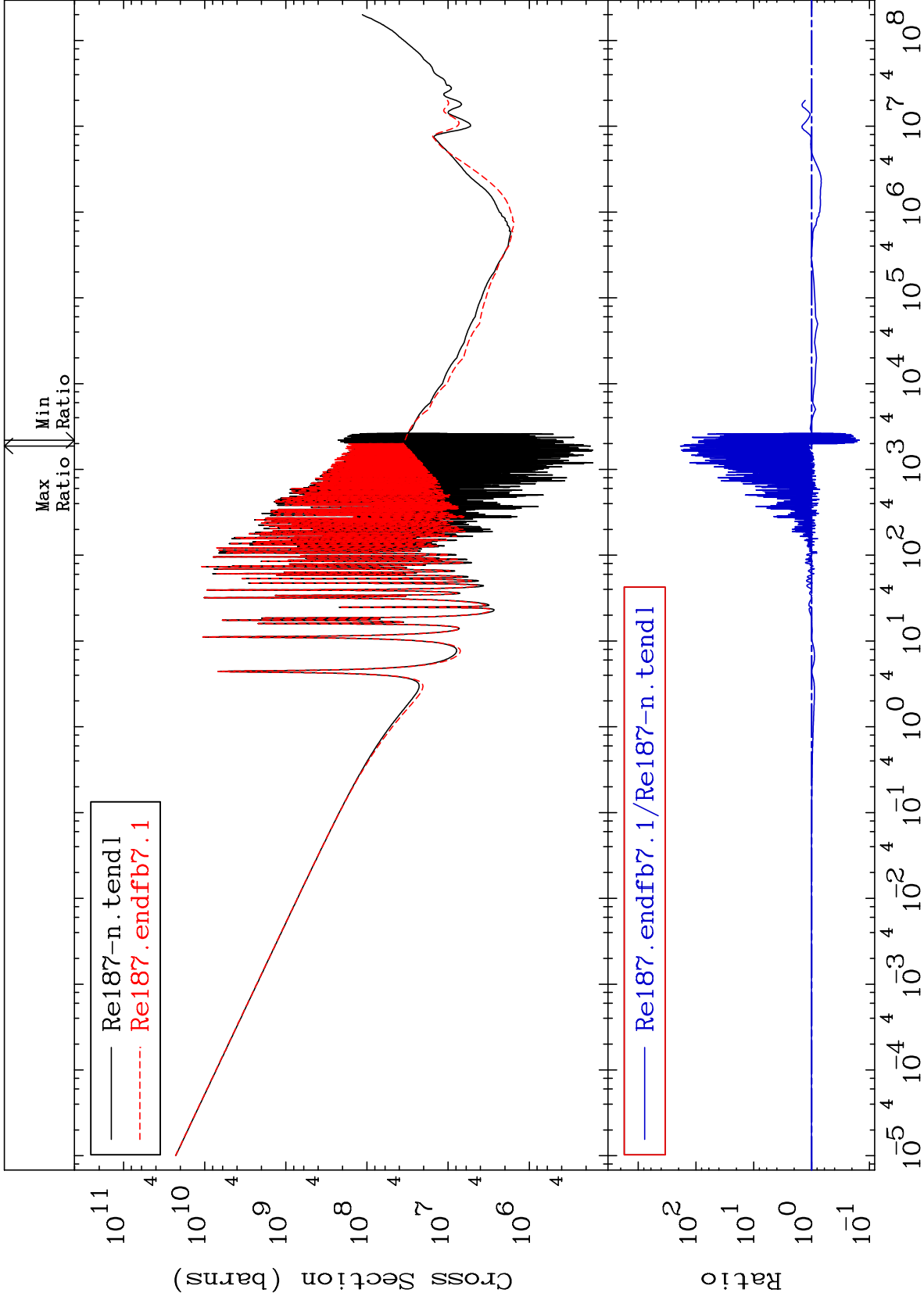
<sup>75</sup>Re-<sup>187</sup>  
-90.19 To 1632. %



MAT 7531

Kerma non-elastic (all but mt2)  
Cross Section

75-Re-187  
-85.13 To 9999. %



40

Incident Energy (eV)

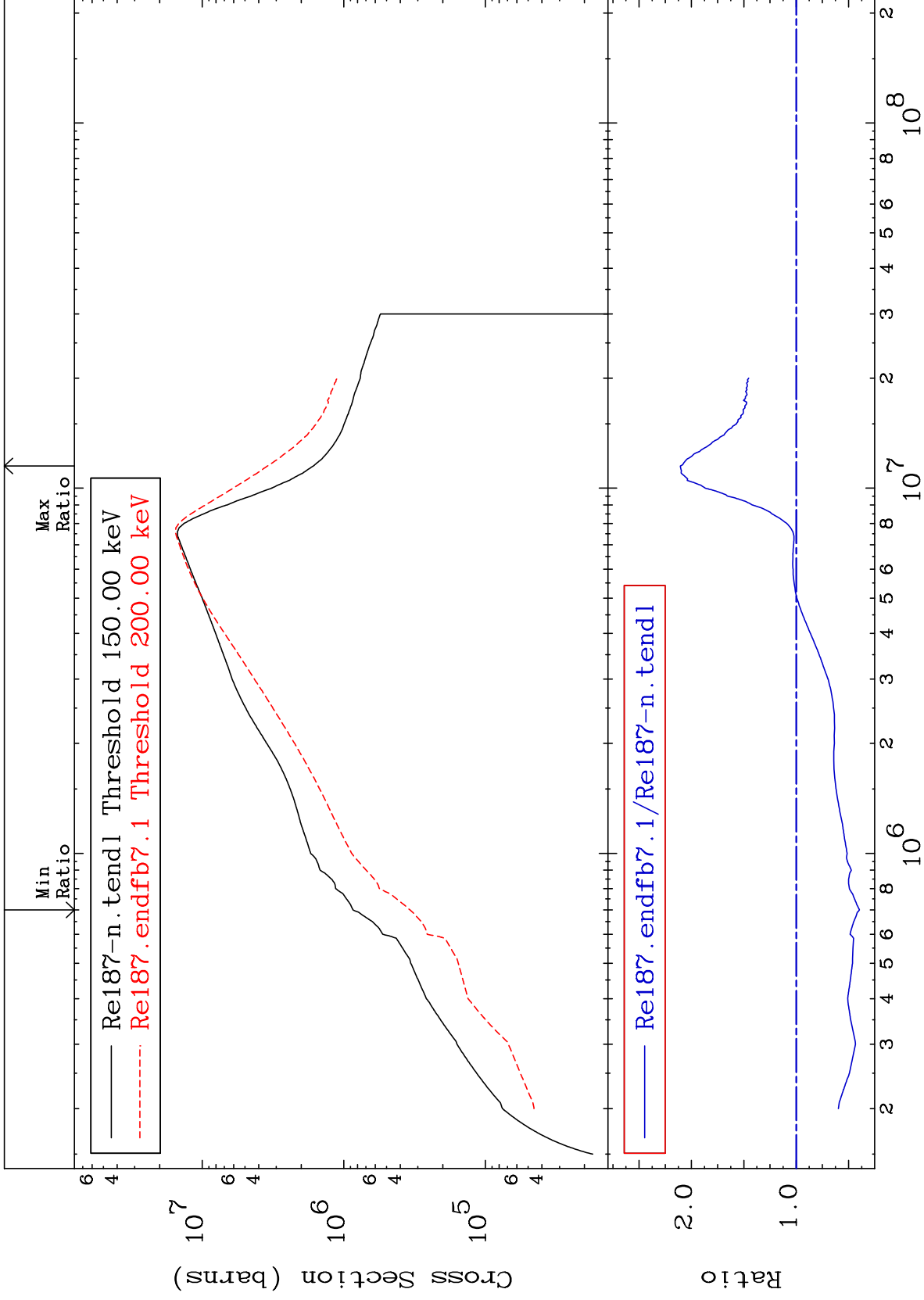
75-Re-187



MAT 7531

Kerma inelastic (mt51-91)  
Cross Section

75-Re-187  
-60.41 To 110.6 %



41

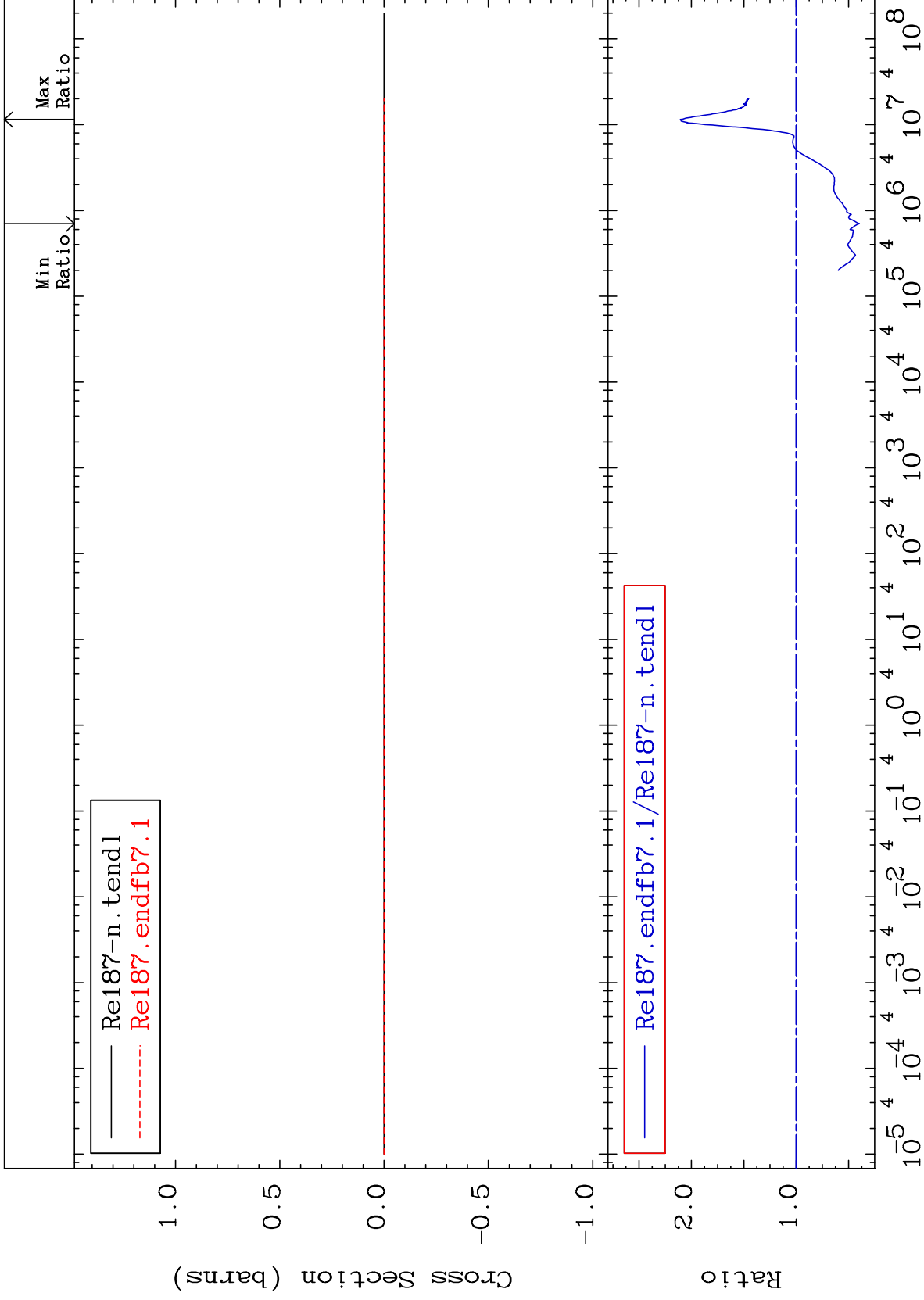
Incident Energy (eV)

75-Re-187

MAT 7531

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

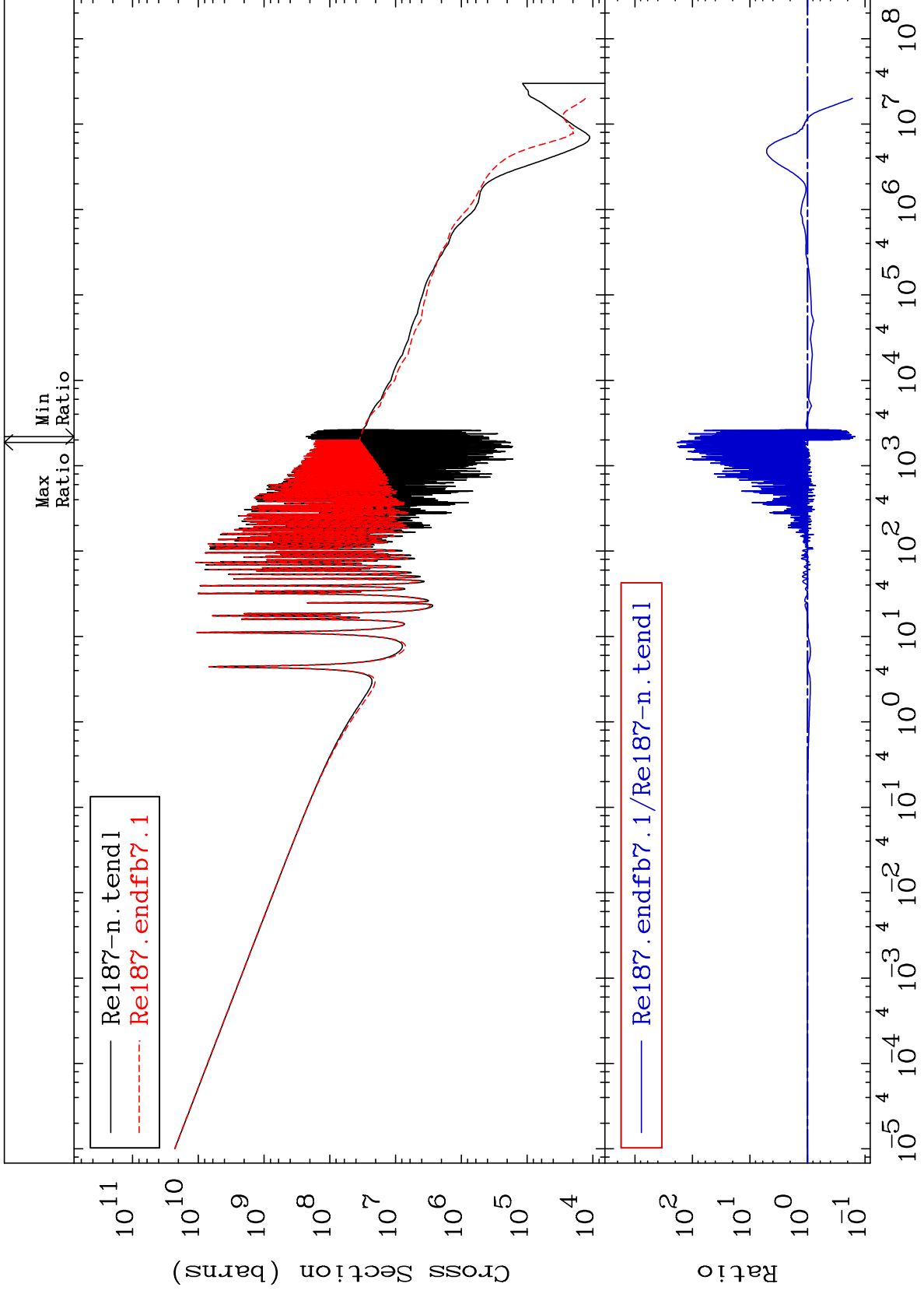
75-Re-187  
-60.41 To 110.6 %



MAT 7531

Kerma capture (mt102)  
Cross Section

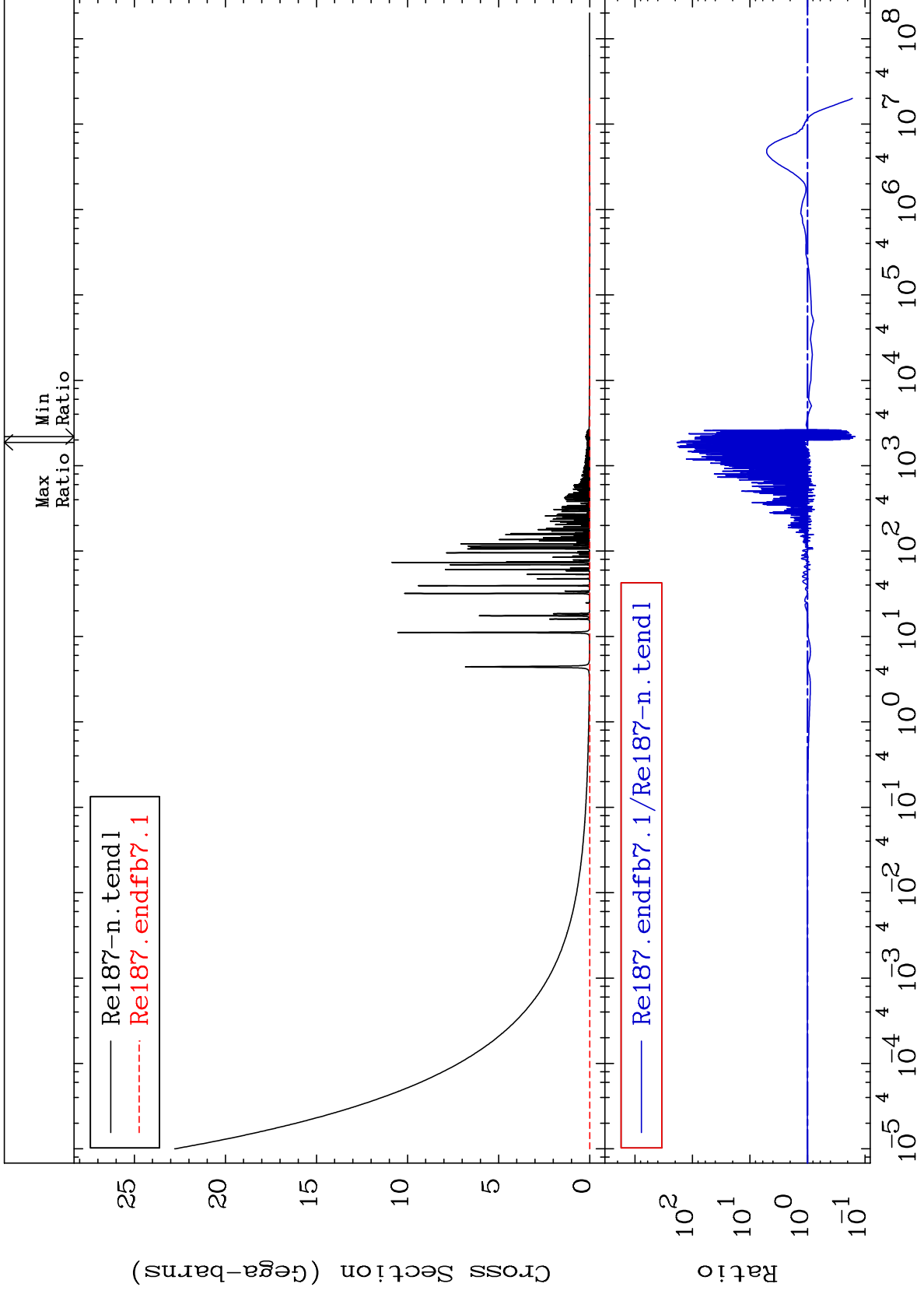
75-Re-187  
-85.13 To 9999. %



MAT 7531

Total photon (eV-barns)  
Cross Section

<sup>75</sup>Re-<sup>187</sup>  
-85.13 To 9999. %



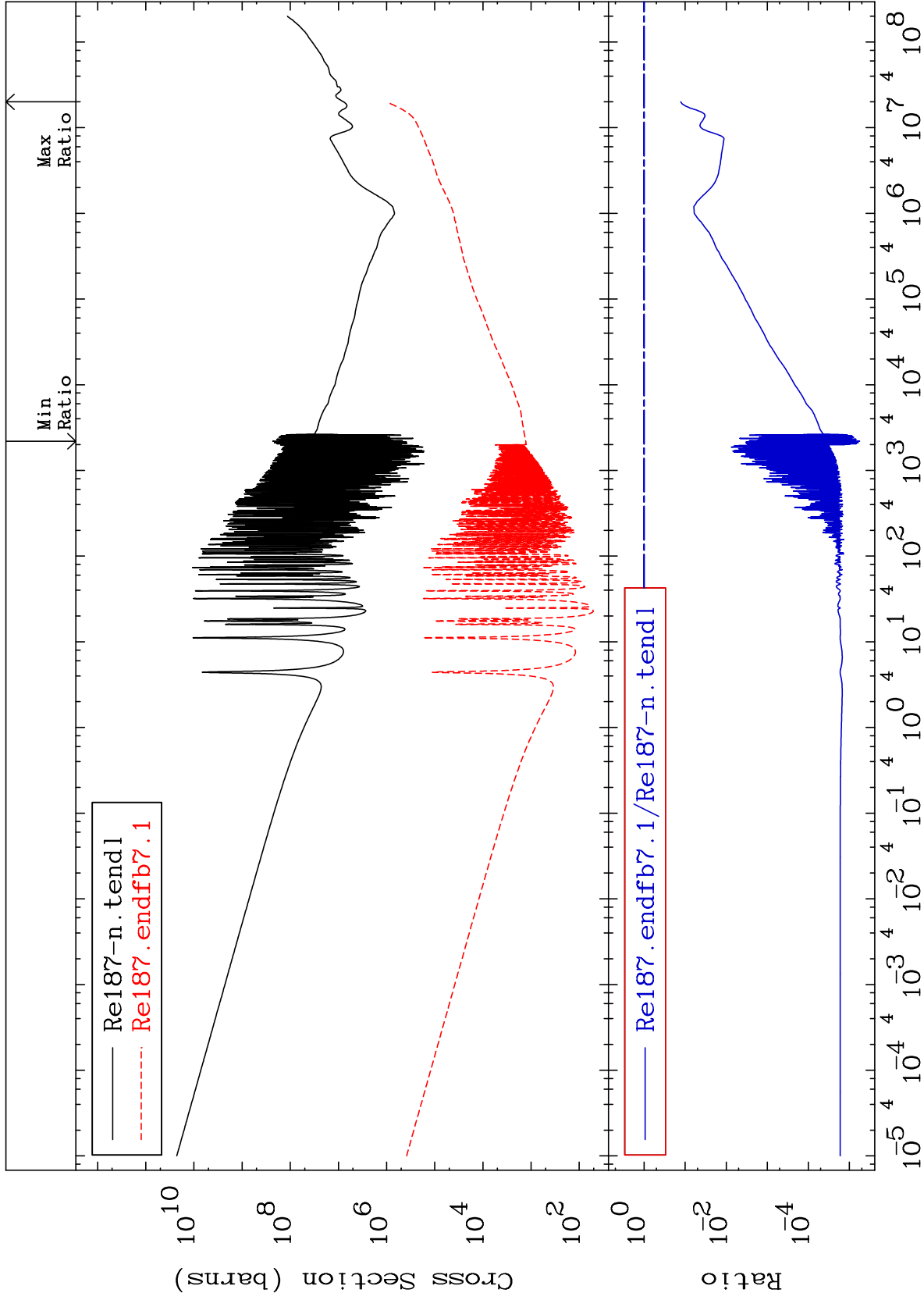
MAT 7531

Total kinematic kerma (high limit)

75-Re-187

Cross Section

-100.0 To -87.21%



45

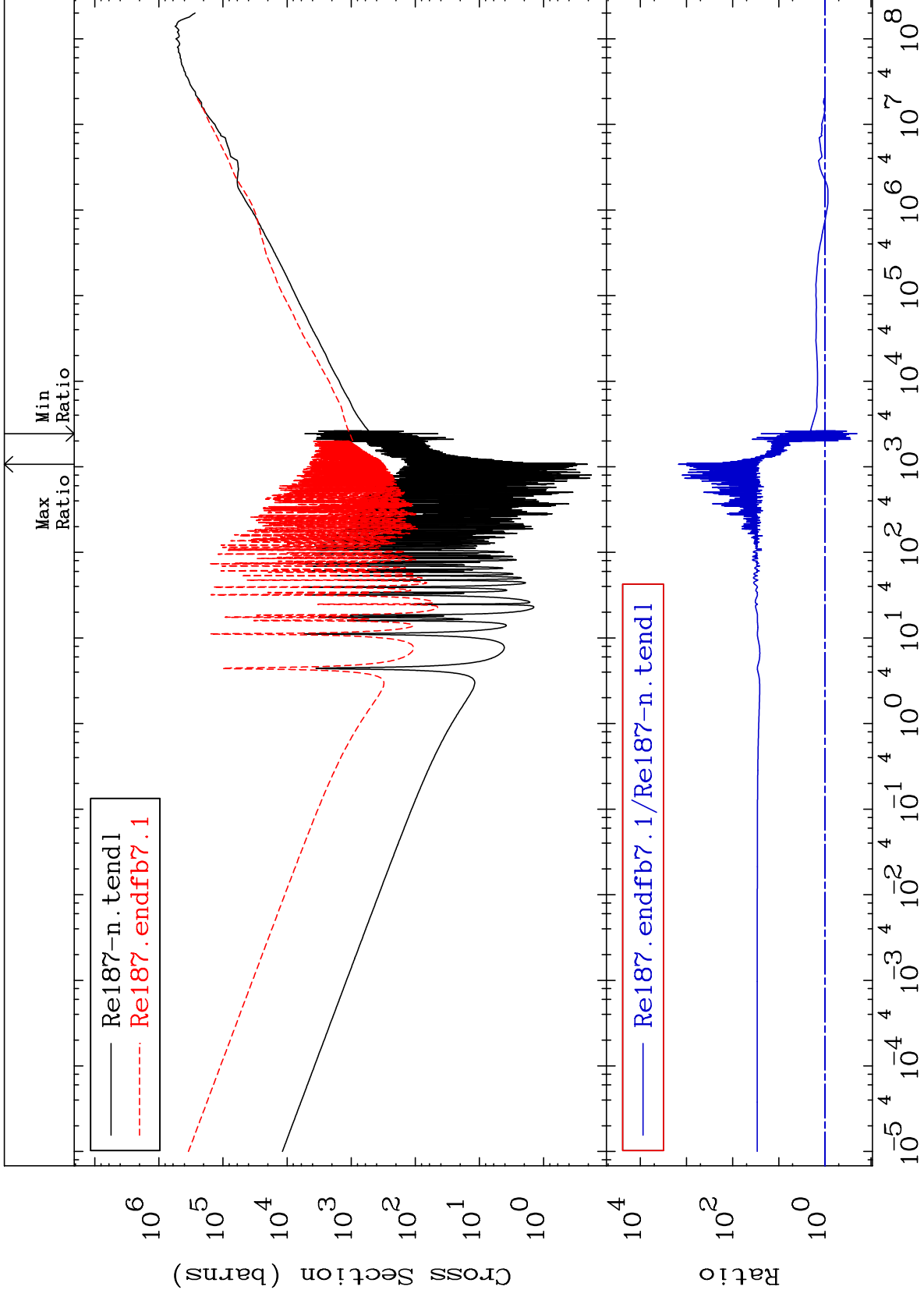
Incident Energy (eV)

75-Re-187

MAT 7531

Dpa total (eV-barns)  
Cross Section

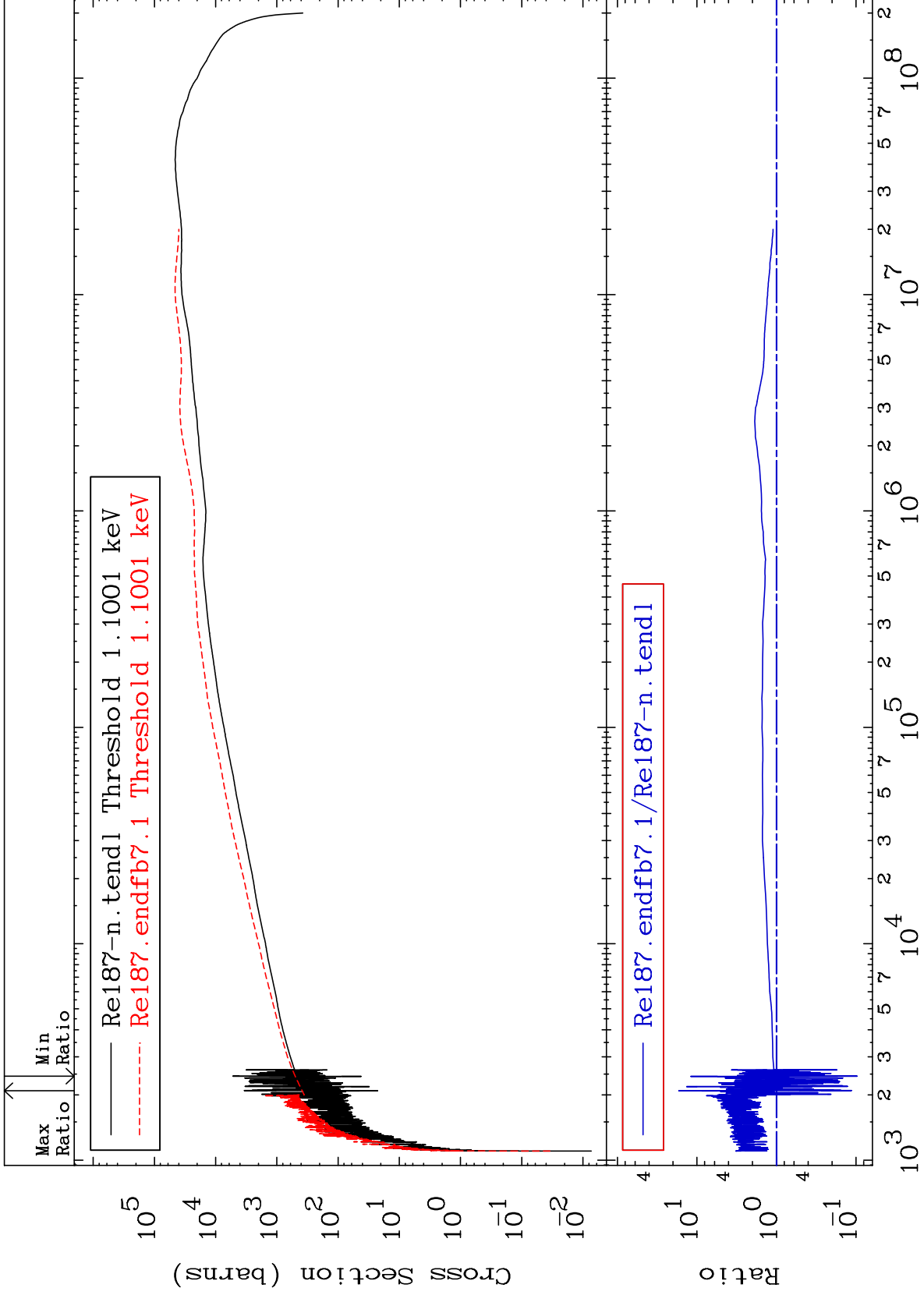
75-Re-187  
-80.07 To 9999. %



MAT 7531

Dpa elastic (mt2)  
Cross Section

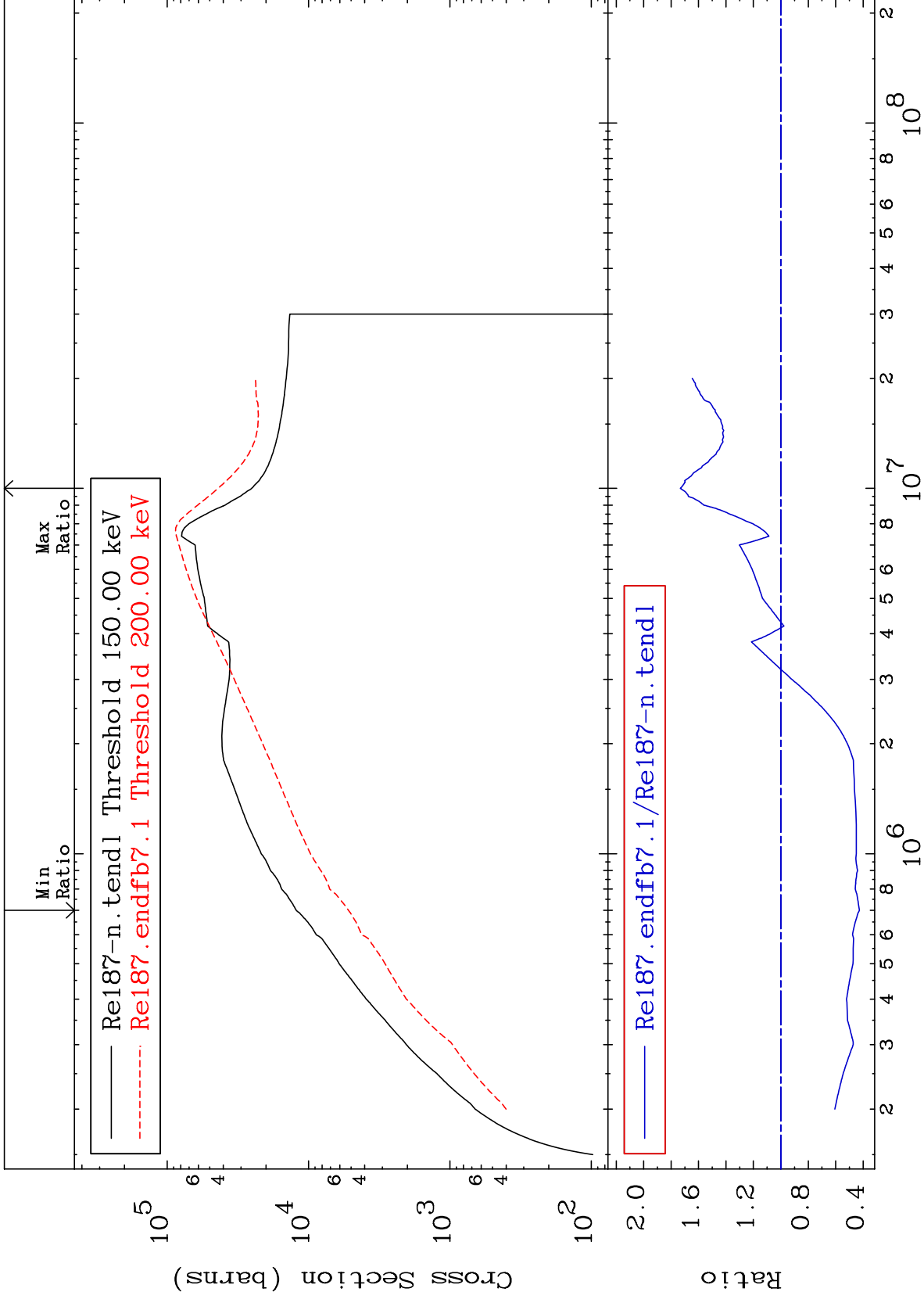
75-Re-187  
-90.38 To 1602. %



47

Incident Energy (eV)

75-Re-187

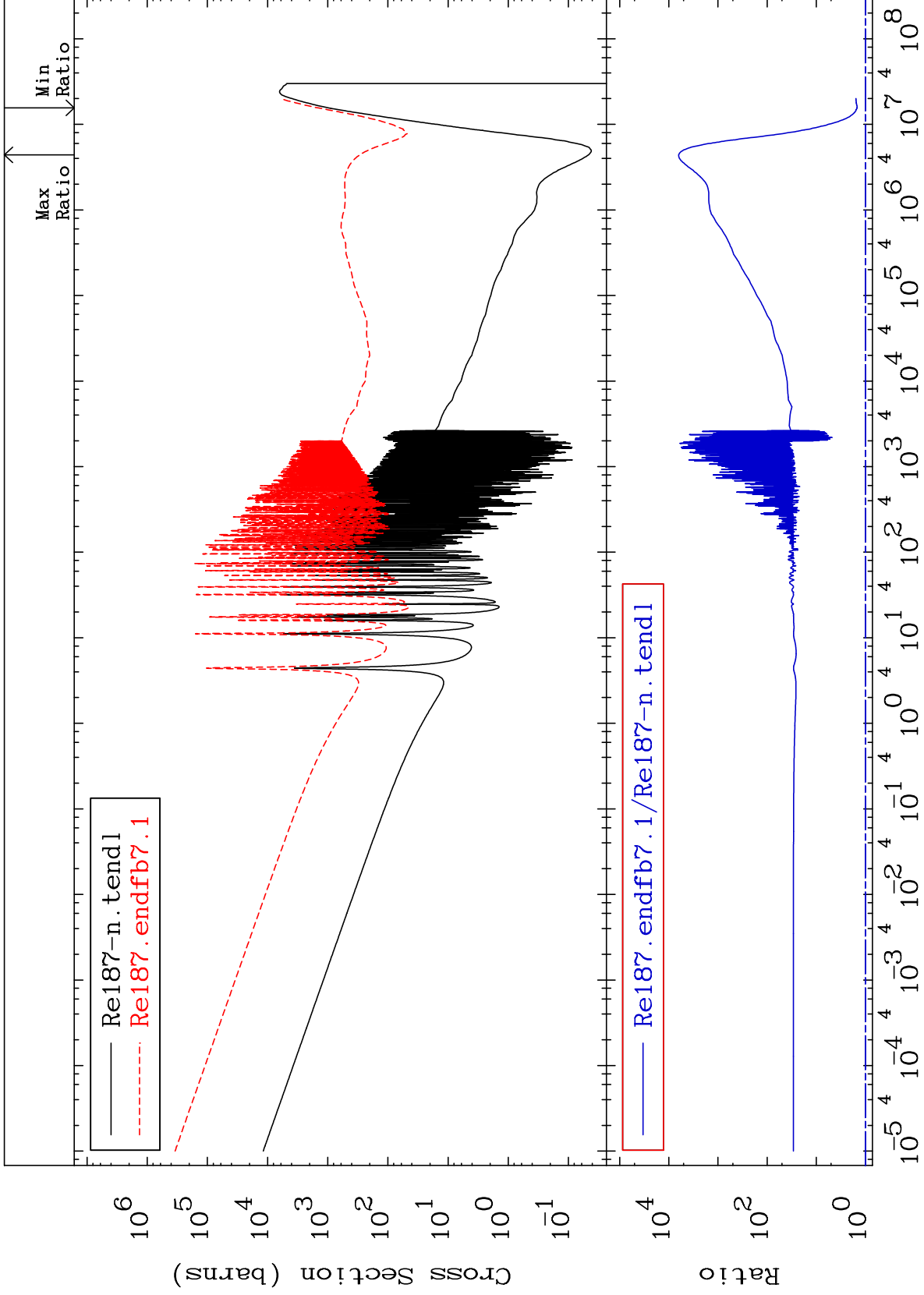




MAT 7531

Dpa disappearance (mt102 -120)  
Cross Section

75-Re-187  
46.69 To 9999. %



49

Incident Energy (eV)

75-Re-187