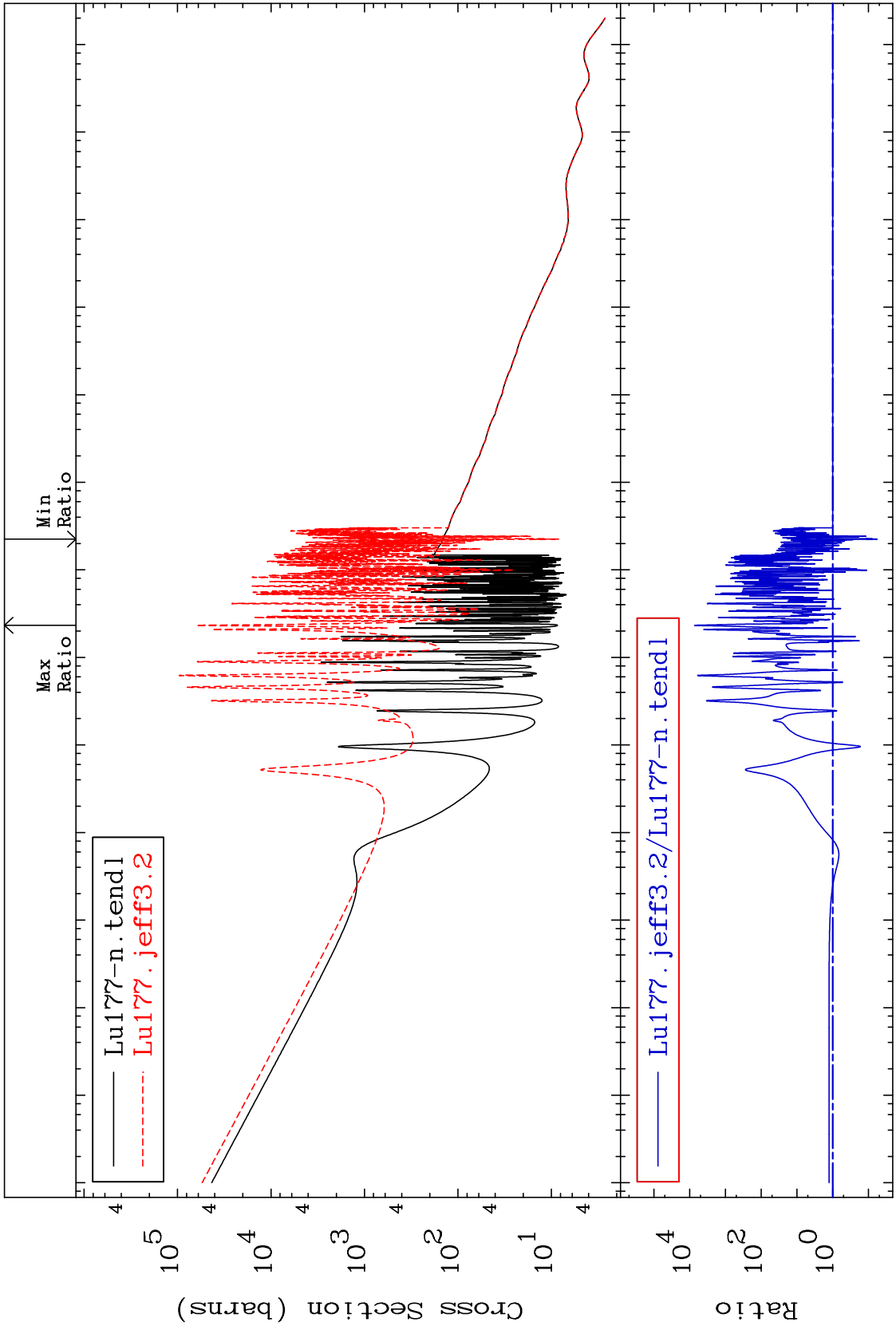


MAT 7131

Total  
Cross Section

71-Lu-177  
-94.28 To 9999. %



Incident Energy (eV)

71-Lu-177

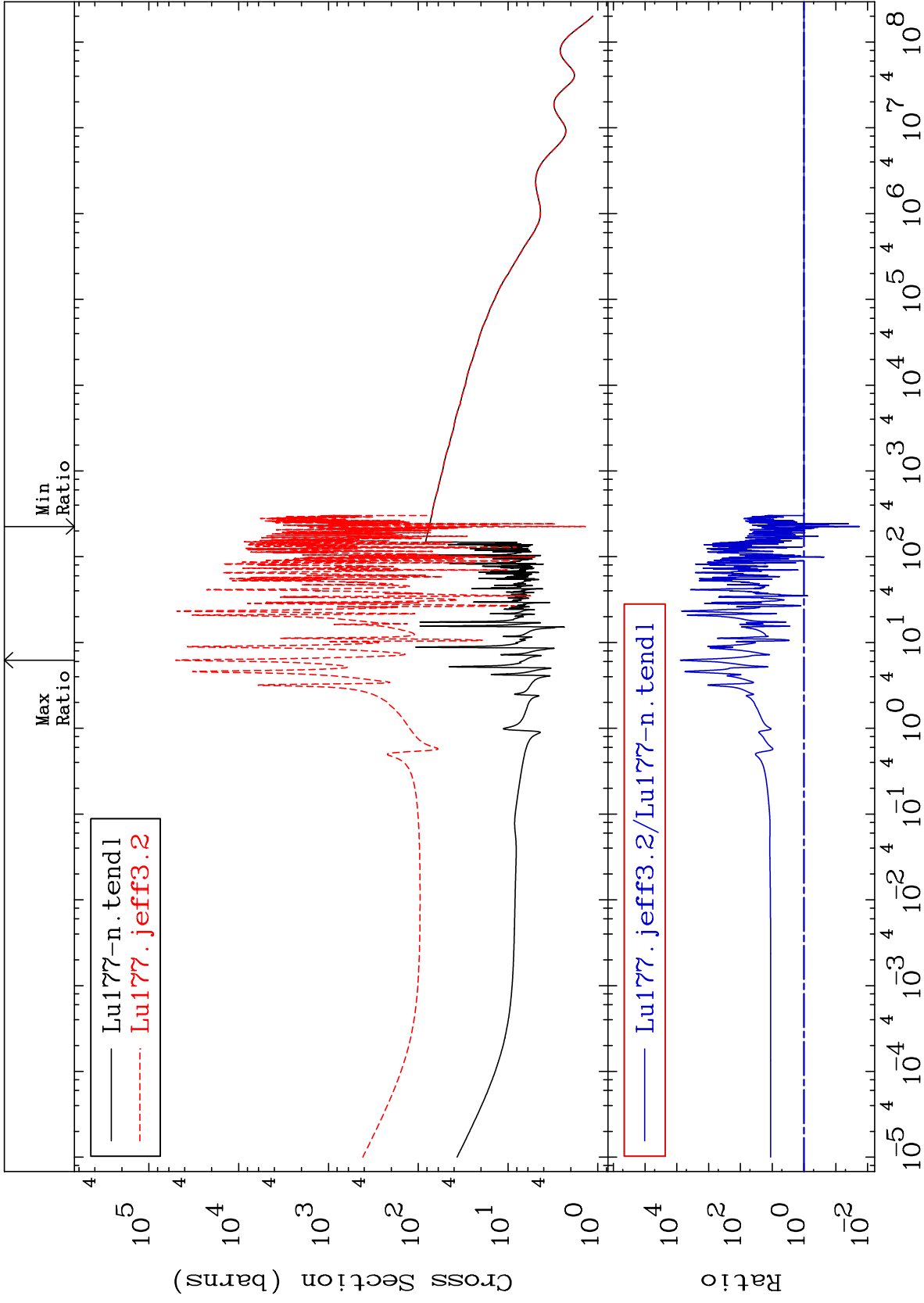
MAT 7131

Elastic

71-Lu-177

Cross Section

-98.19 To 9999. %



Incident Energy (eV)

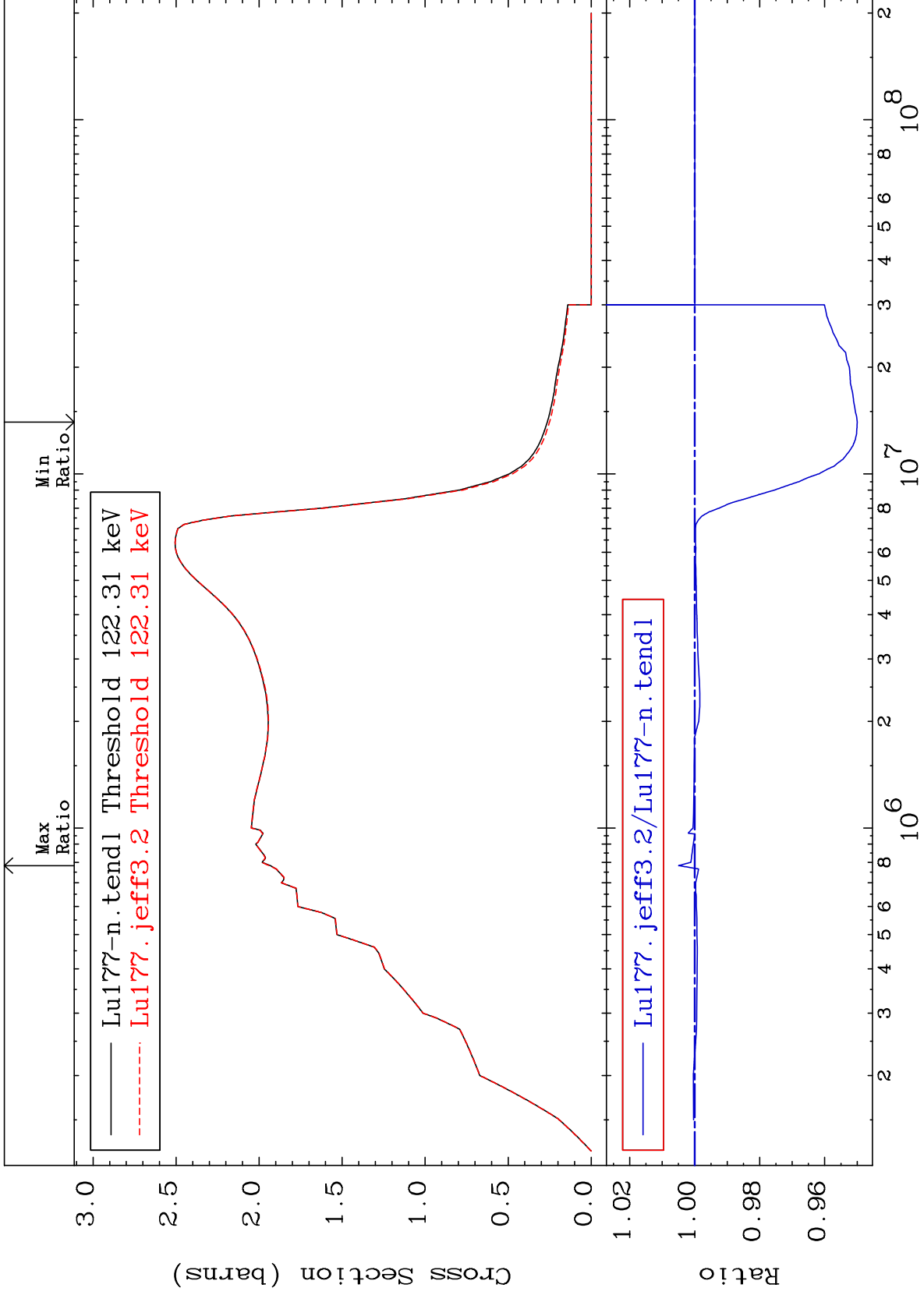
71-Lu-177

2

MAT 7131

Inelastic  
Cross Section

71-Lu-177  
-5.002 To 0.495 %



MAT 7131

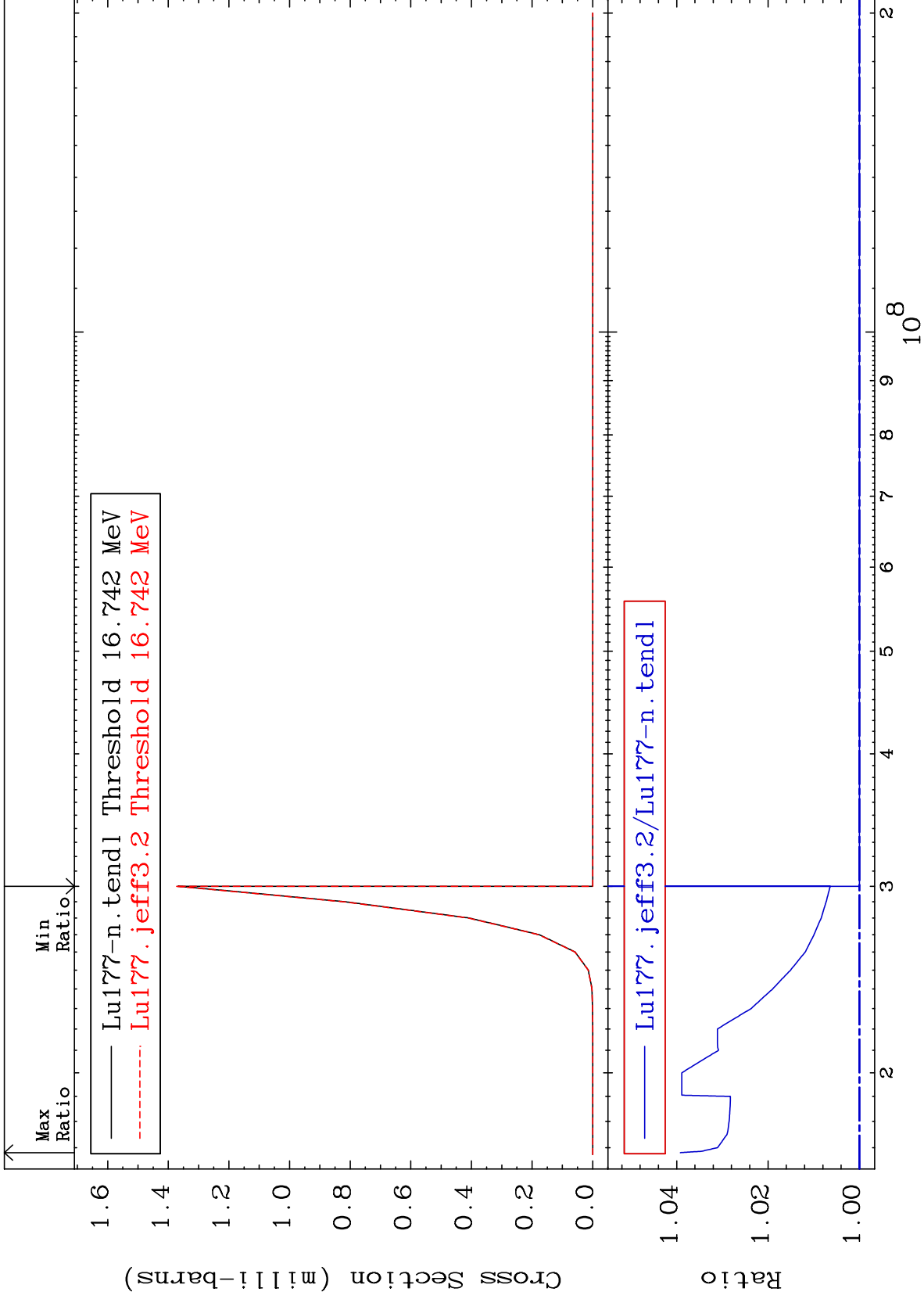
(n,2n) d

<sup>71</sup>Lu-177

Cross Section

0.000

To 3.919 %



MAT 7131

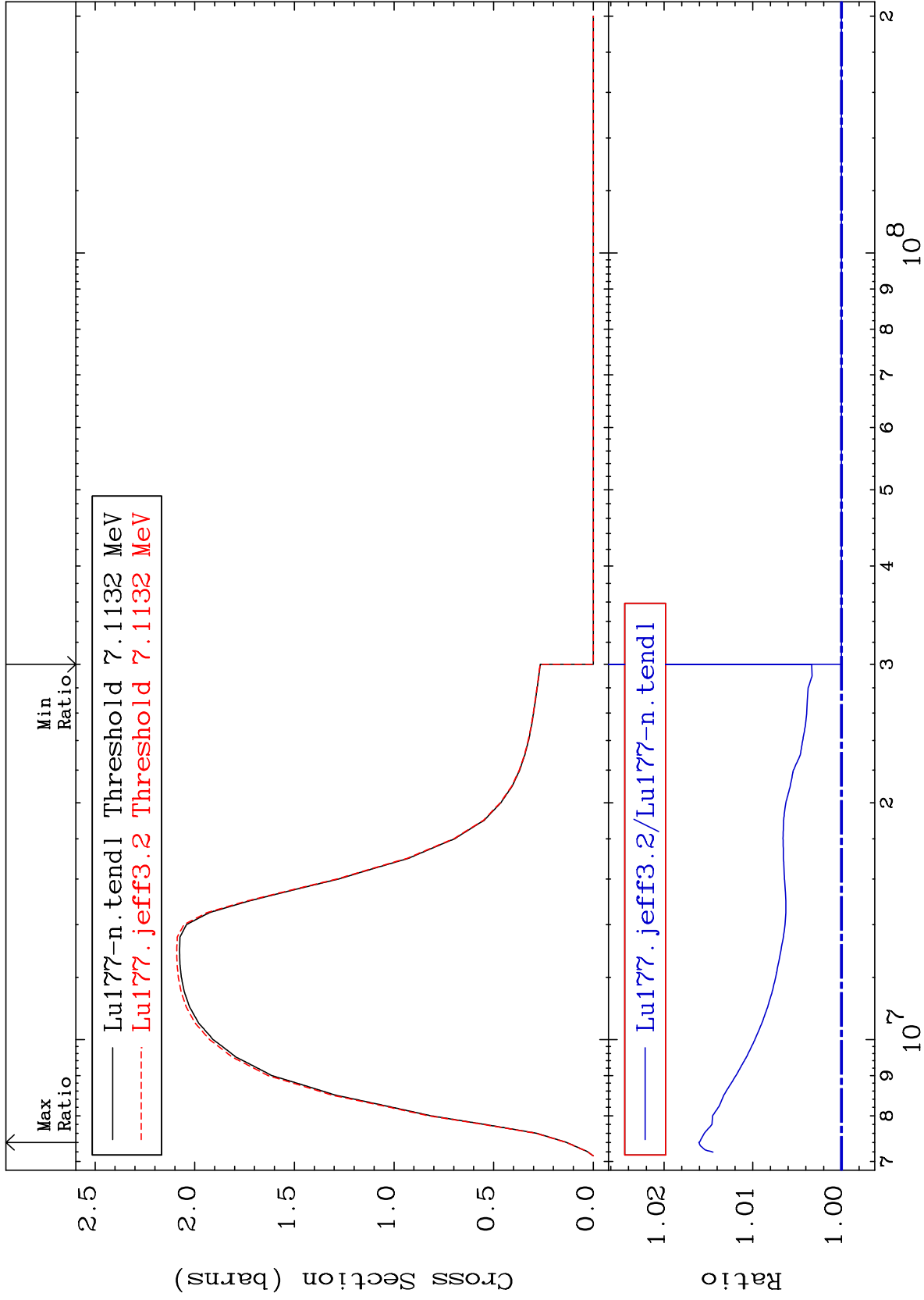
(n,2n)

<sup>71</sup>Lu-177

Cross Section

0.000

To 1.606 %



5

Incident Energy (eV)

<sup>71</sup>Lu-177

MAT 7131

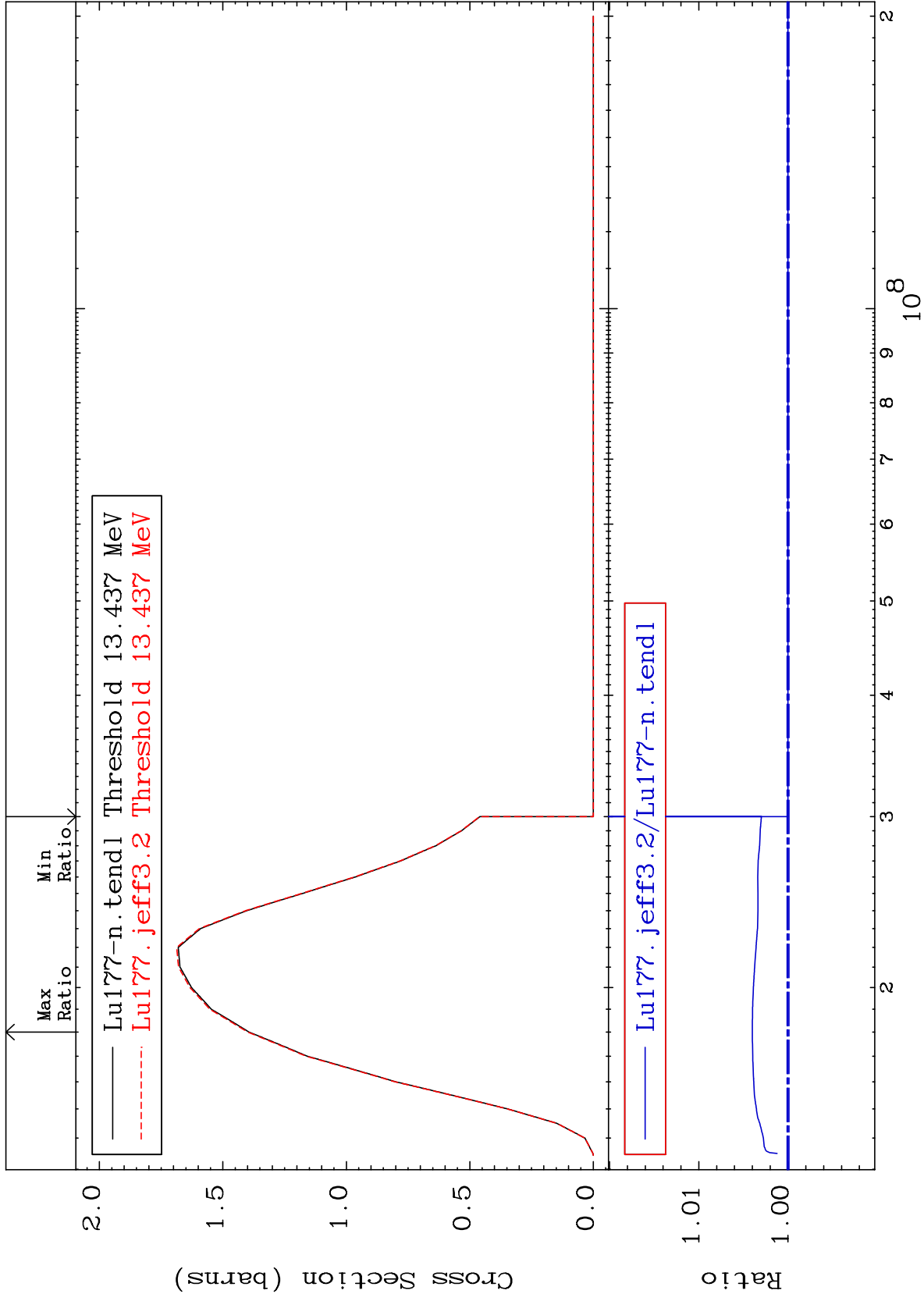
(n,3n)

71-Lu-177

Cross Section

0.000

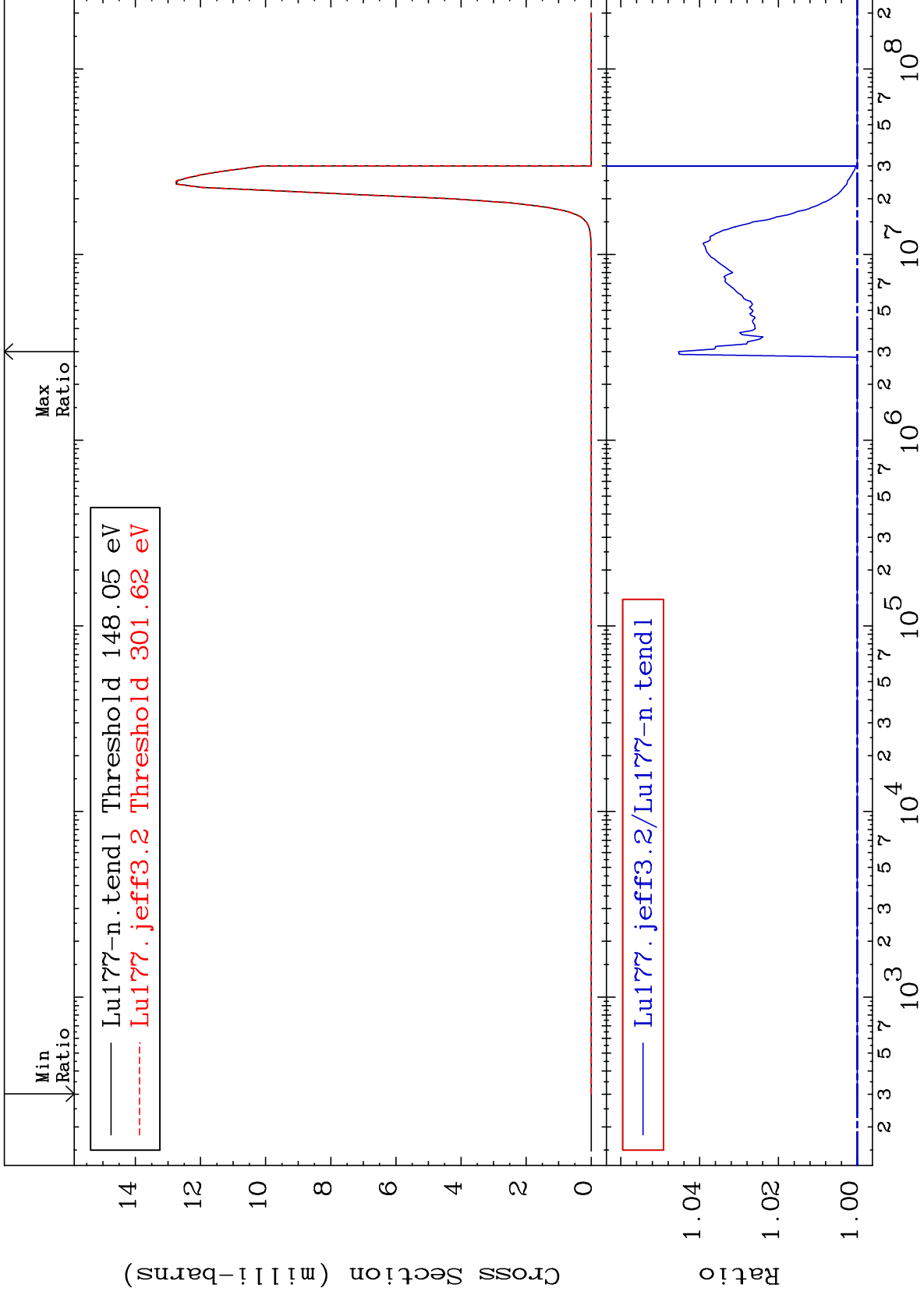
To 0.400 %



MAT 7131

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

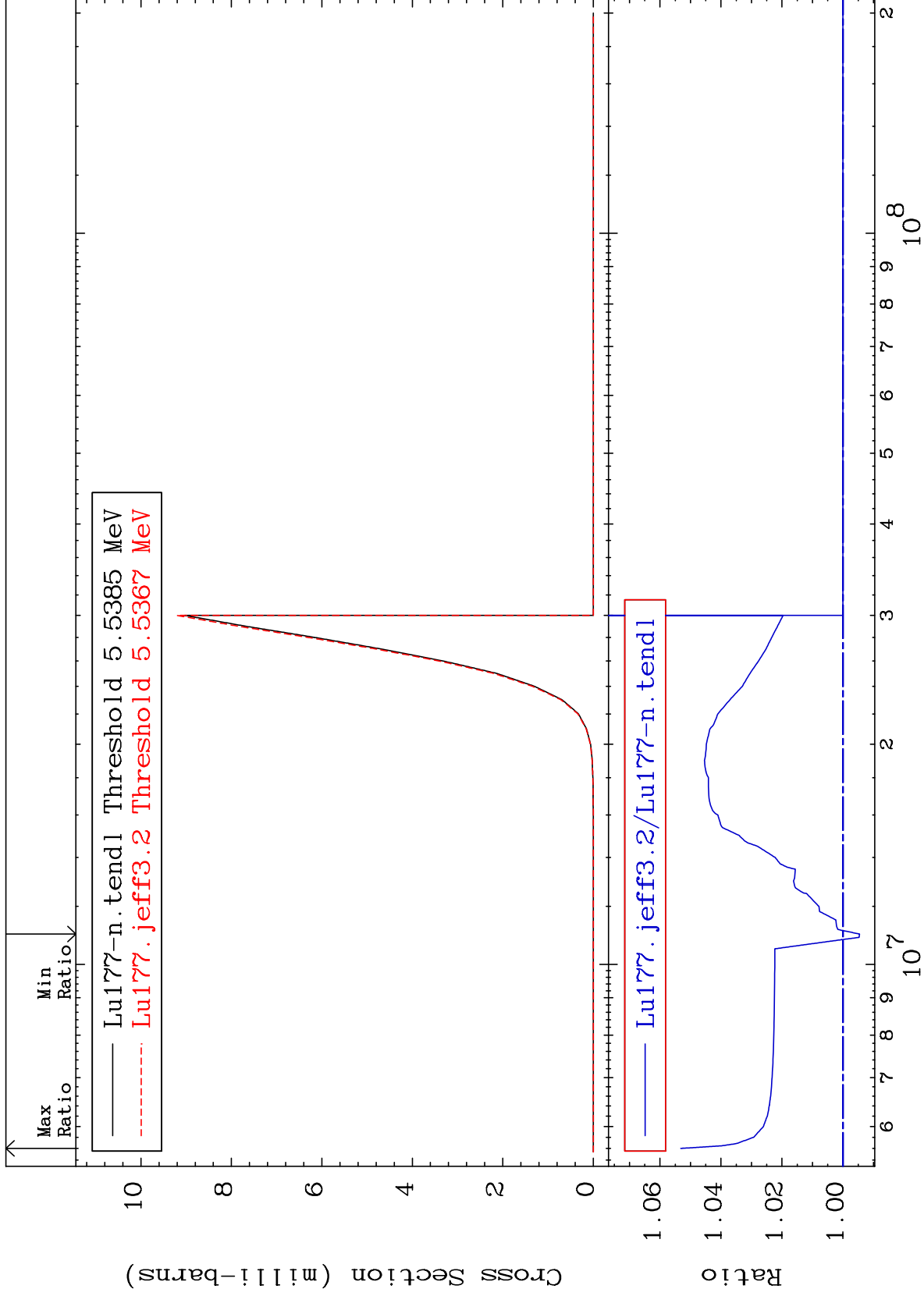
71-Lu-177  
To 4.534 %



MAT 7131

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

<sup>71</sup>Lu-<sup>177</sup>  
-0.544 To 5.319 %



8

Incident Energy (eV)

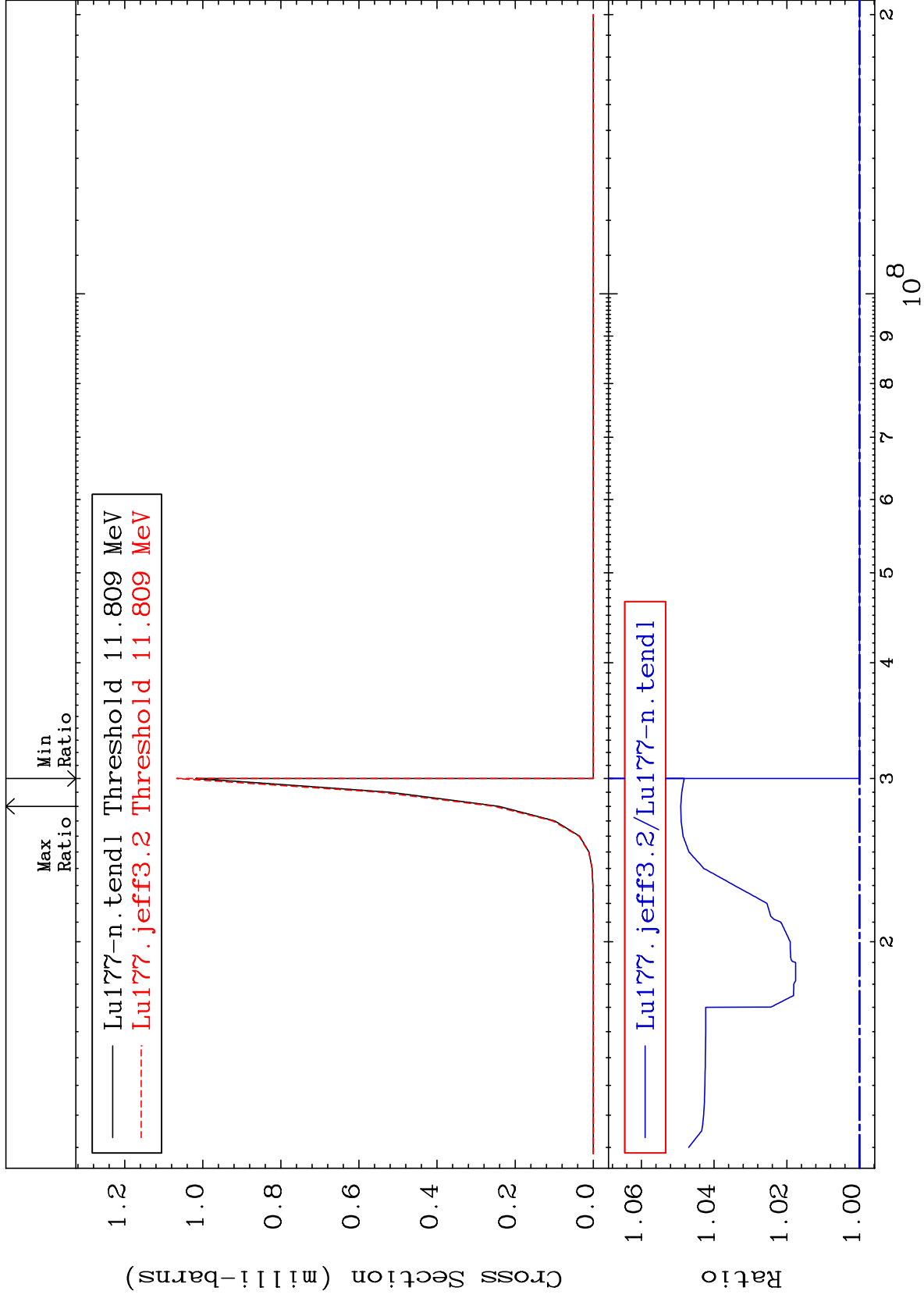
<sup>71</sup>Lu-<sup>177</sup>



MAT 7131

(n,3n)  $\alpha$   
Cross Section

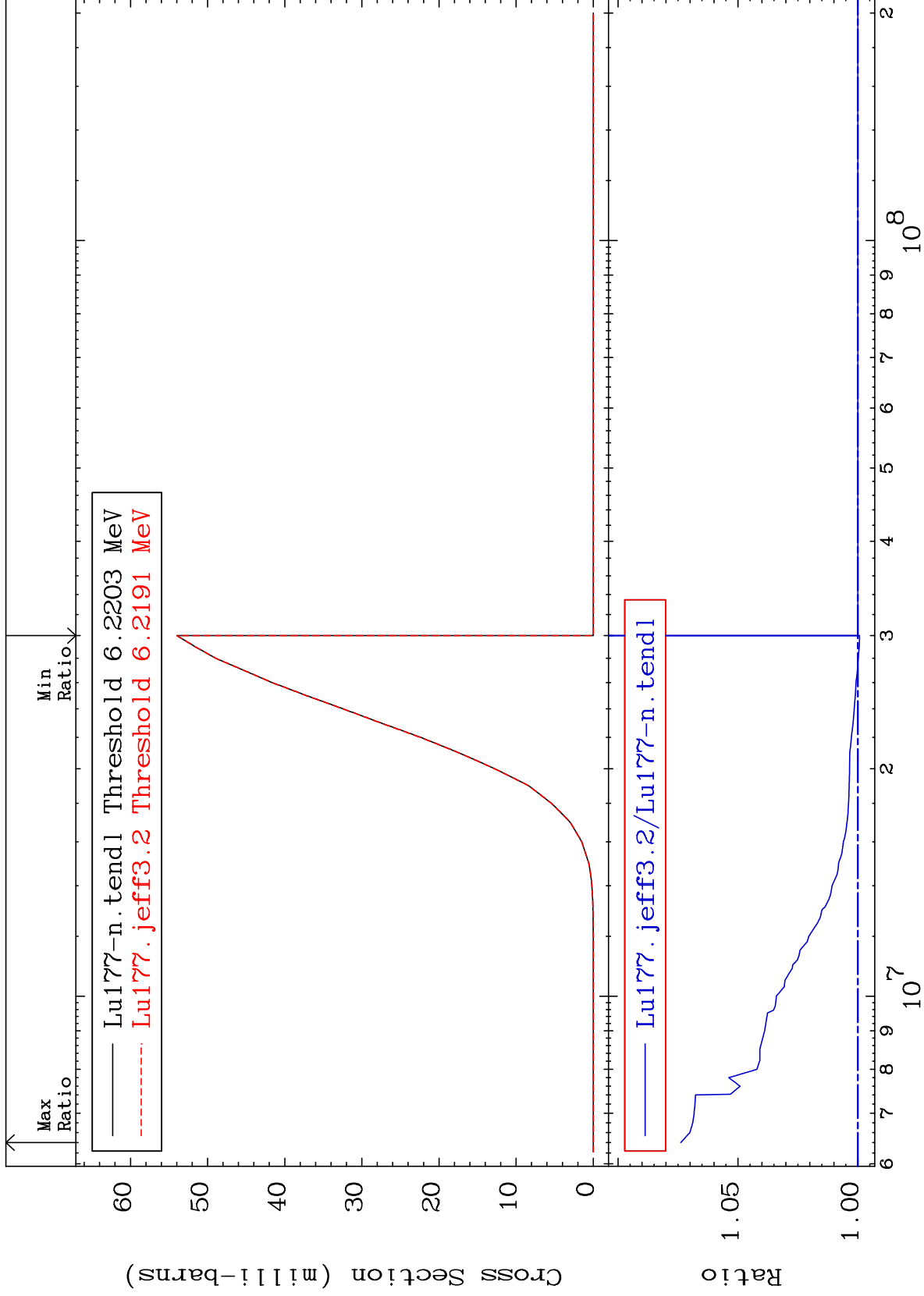
71-Lu-177  
0.000 To 4.918 %



MAT 7131

(n,n') p  
Cross Section

<sup>71</sup>Lu-<sup>177</sup>  
-0.072 To 7.386 %



10

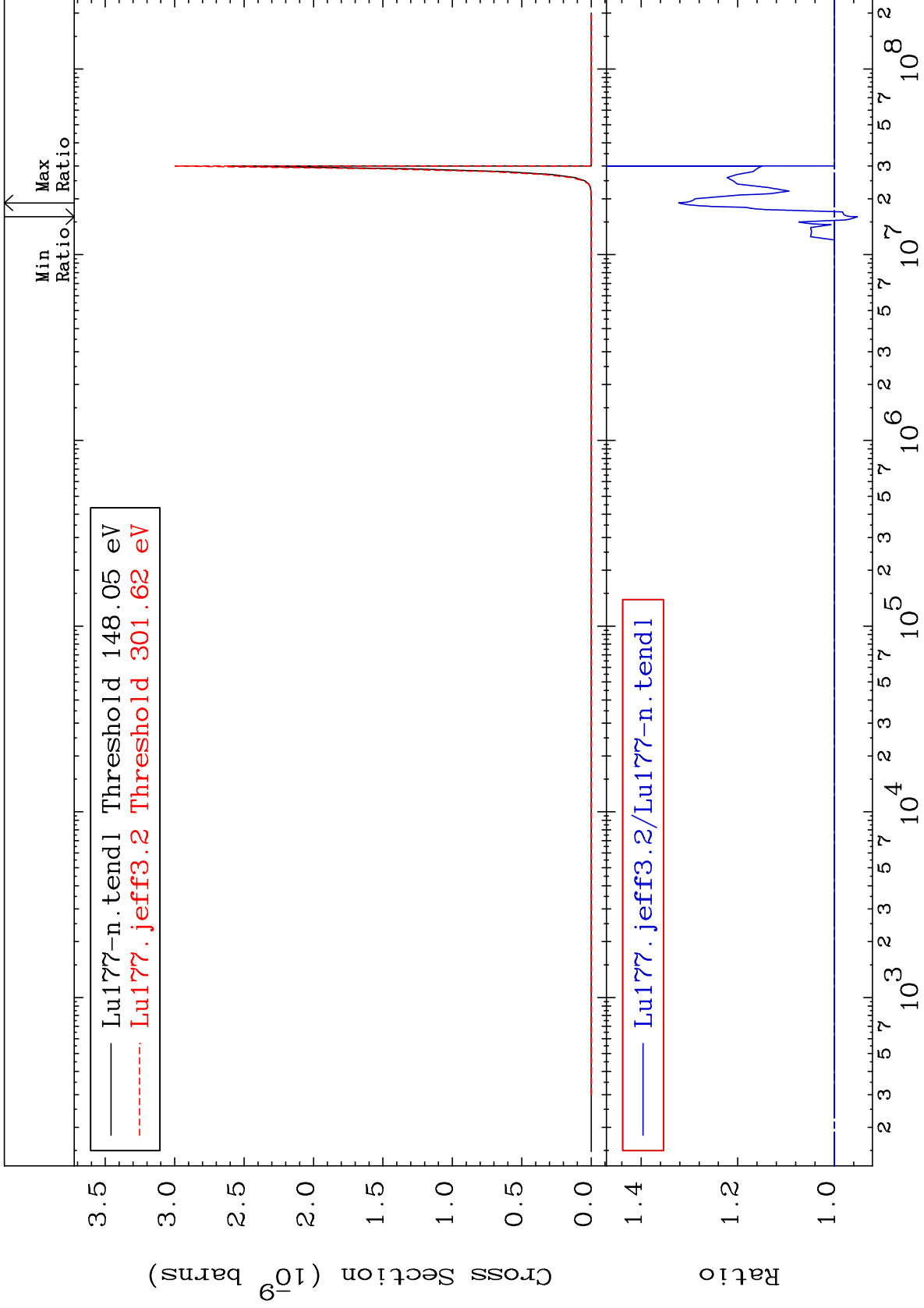
Incident Energy (eV)

<sup>71</sup>Lu-<sup>177</sup>

MAT 7131

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

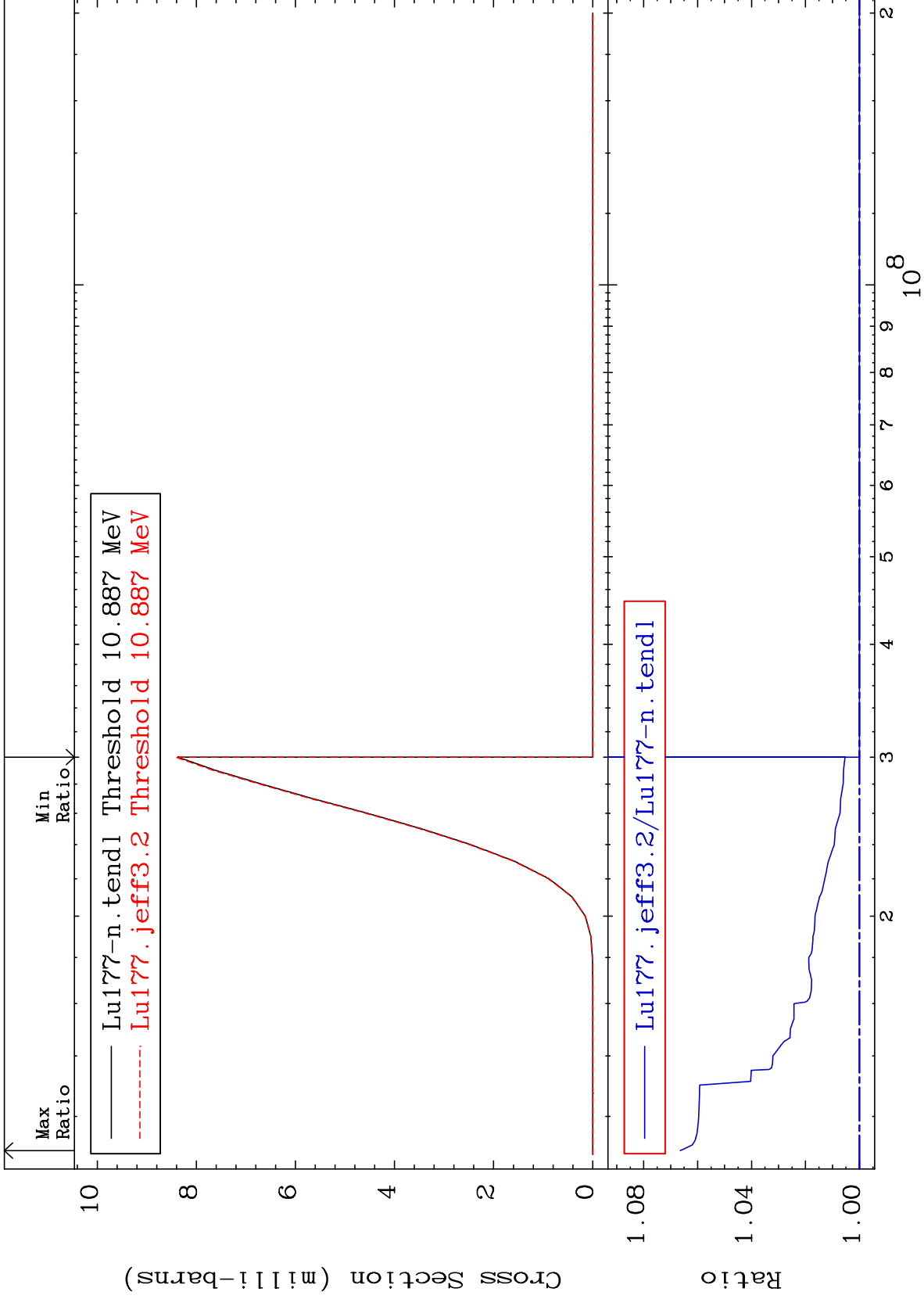
71-Lu-177  
-4.750 To 32.23 %



MAT 7131

(n,n') d  
Cross Section

<sup>71</sup>Lu-<sup>177</sup>  
0.000 To 6.639 %



MAT 7131

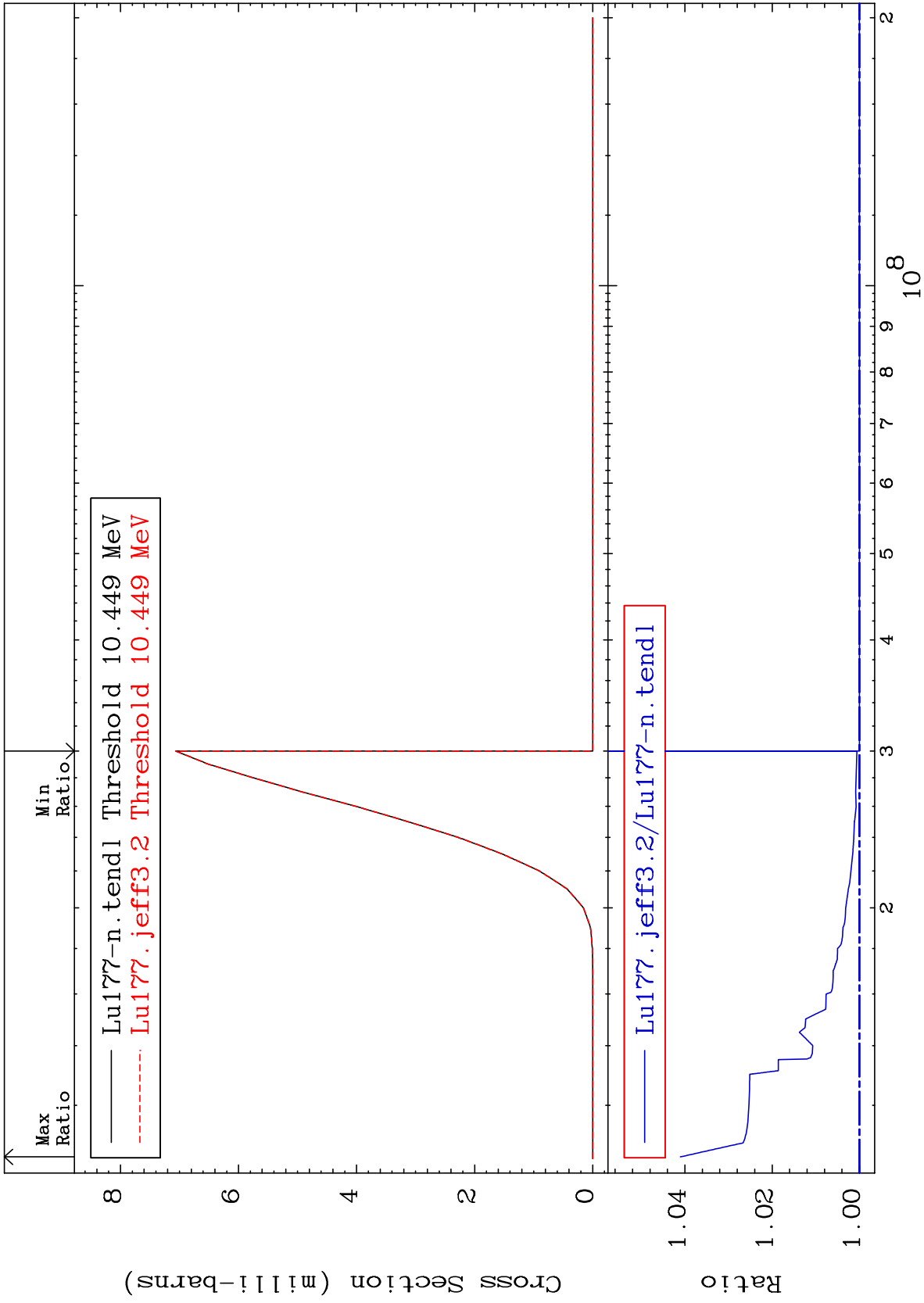
(n,n') t

<sup>71</sup>Lu-177

Cross Section

0.000

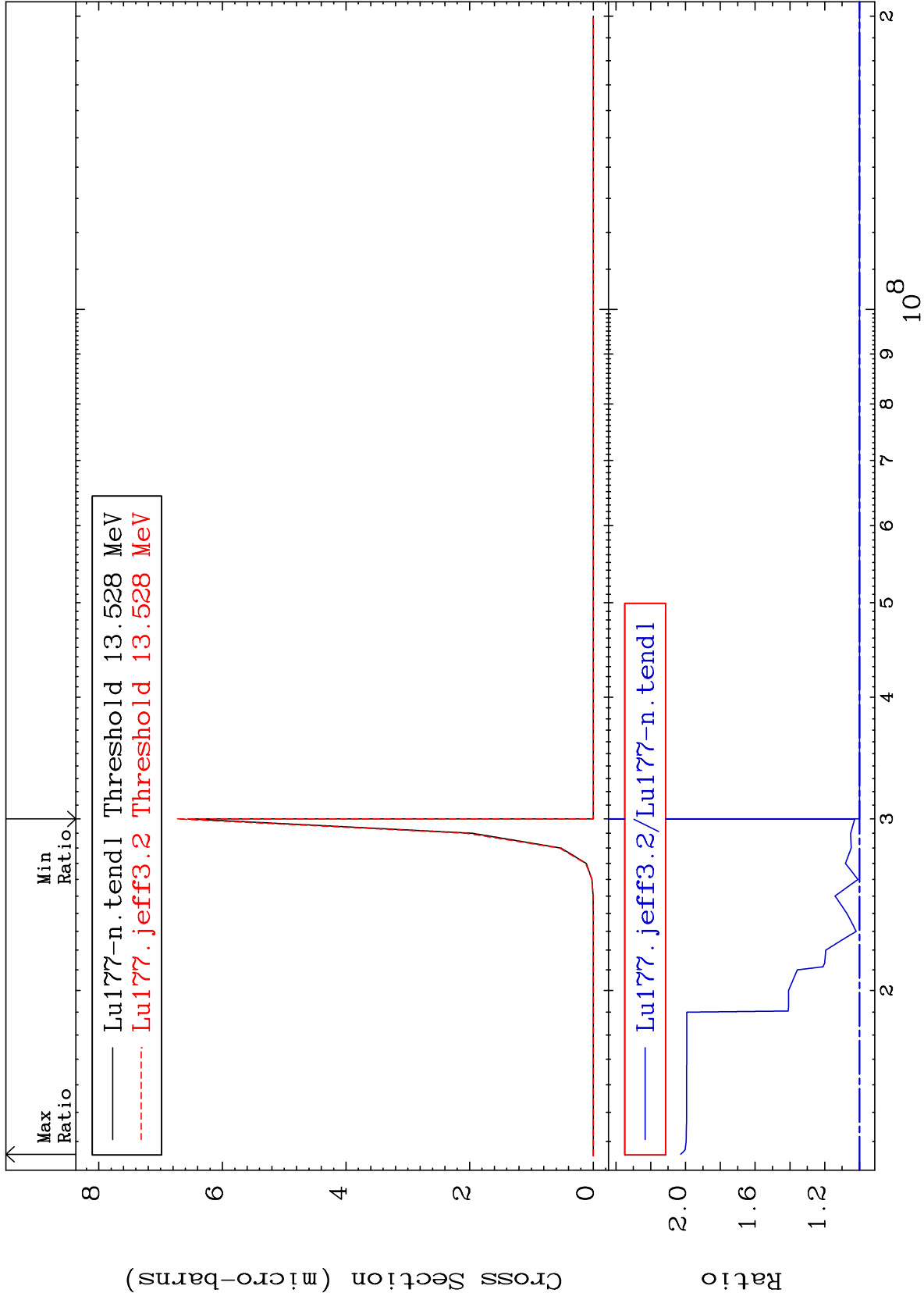
To 4.105 %



MAT 7131

(n, n') He-3  
Cross Section

<sup>71</sup>Lu-<sup>177</sup>  
To 102.7 %



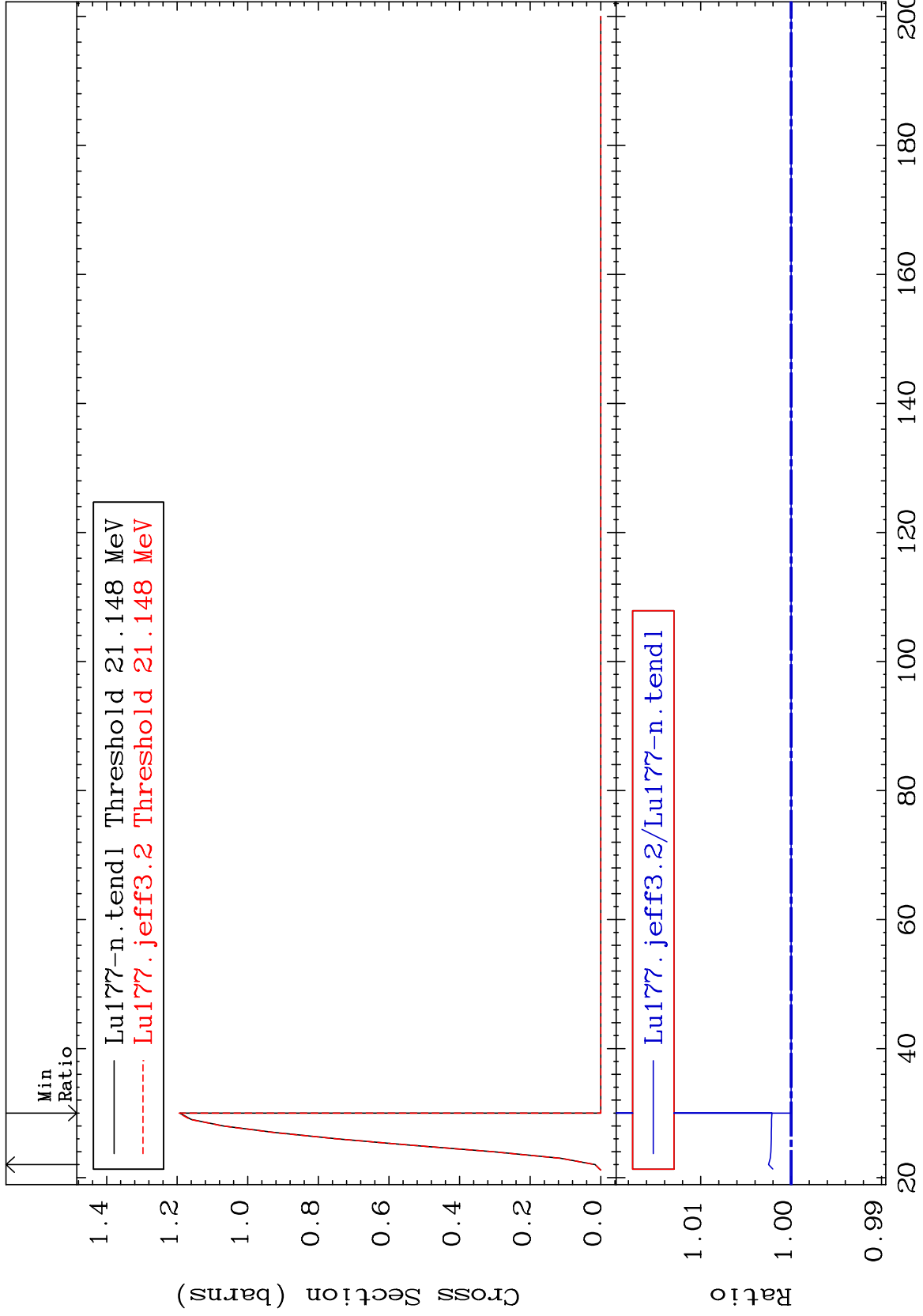
MAT 7131

(n,4n)

<sup>71</sup>Lu-177

Cross Section

0.000 To 0.249 %



Incident Energy (MeV)

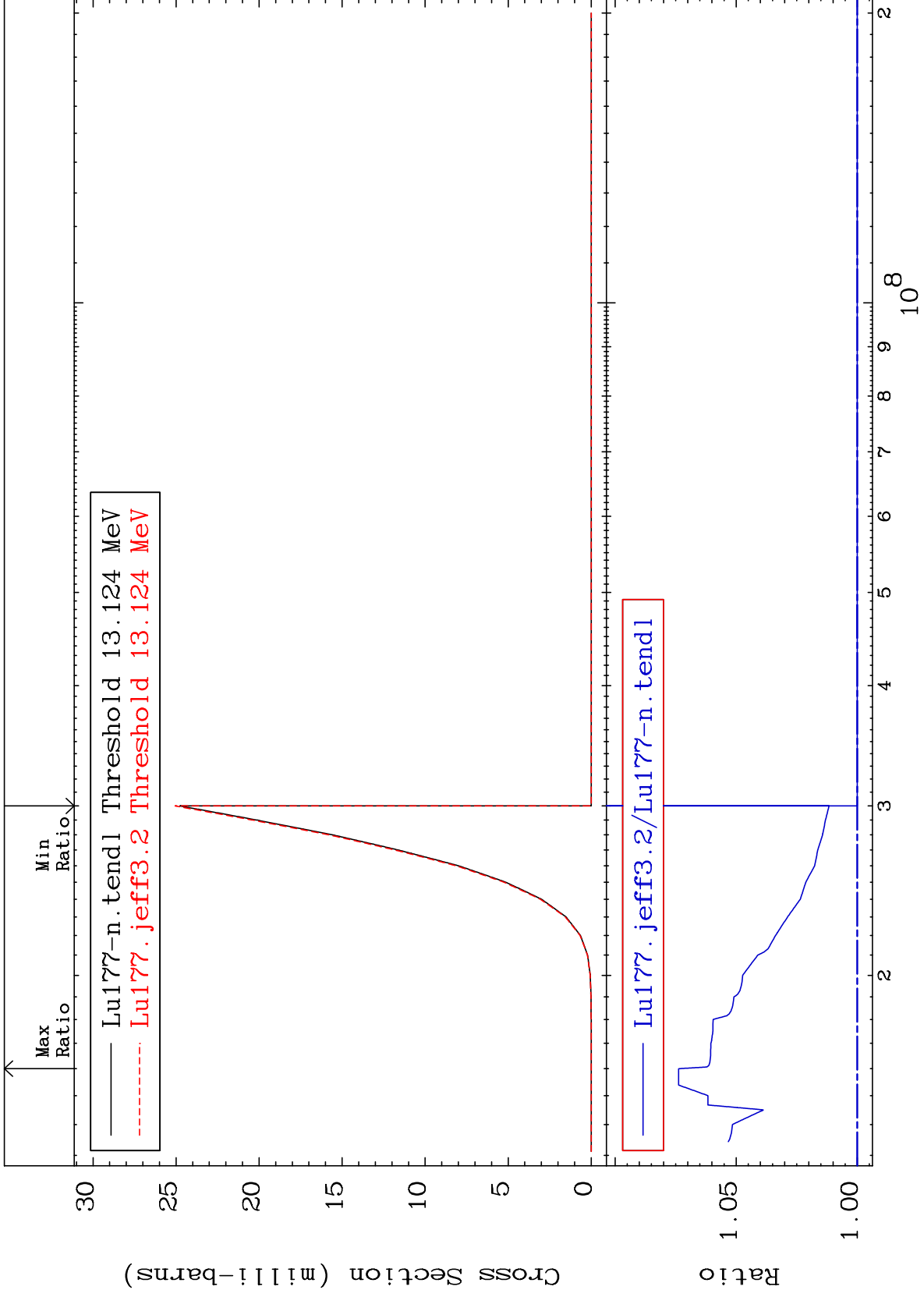
<sup>71</sup>Lu-177

15

MAT 7131

(n,2n) p  
Cross Section

71-Lu-177  
0.000 To 7.376 %

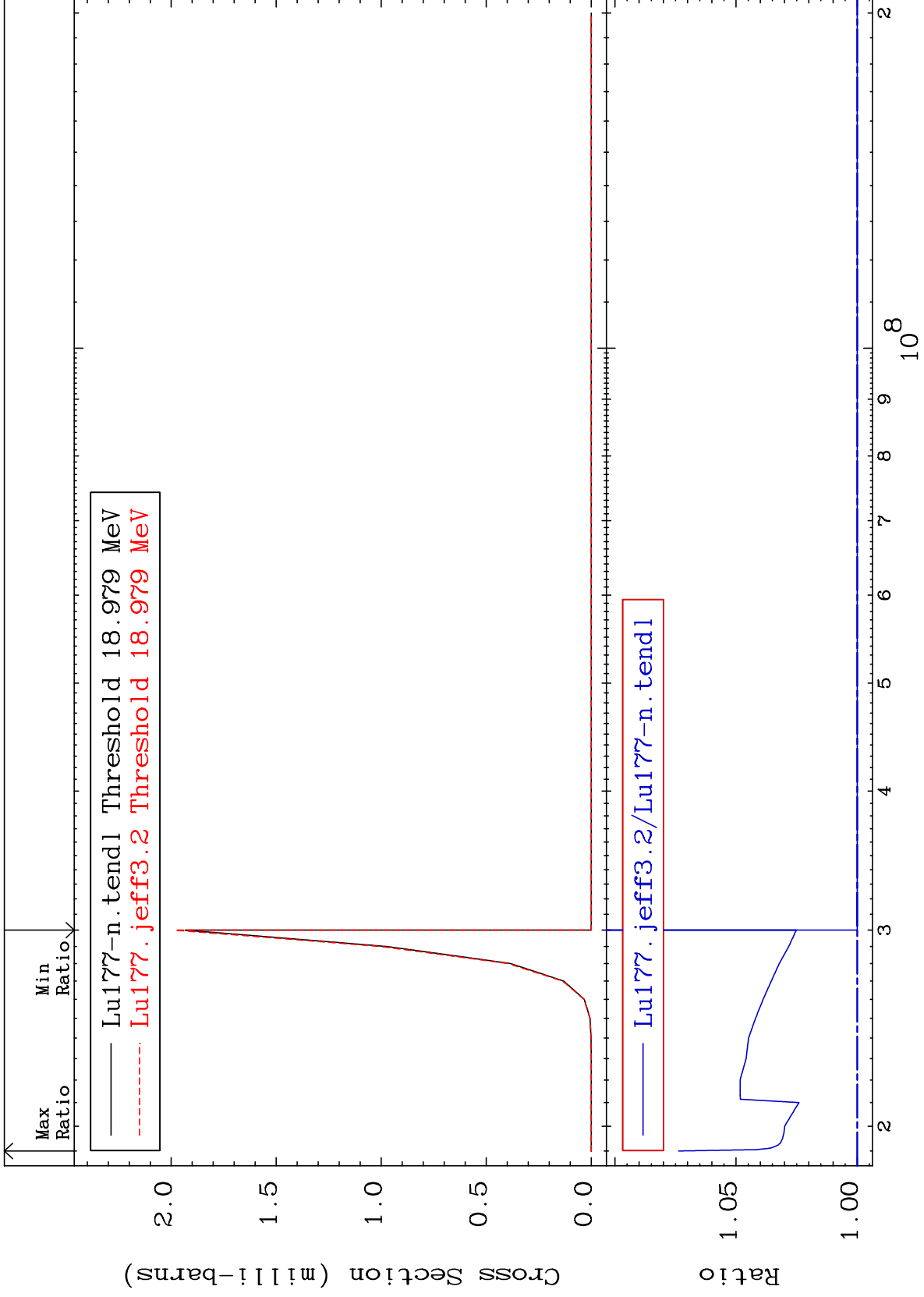




MAT 7131

(n,3n) p  
Cross Section

<sup>71</sup>-Lu-177  
To 7.371 %



17

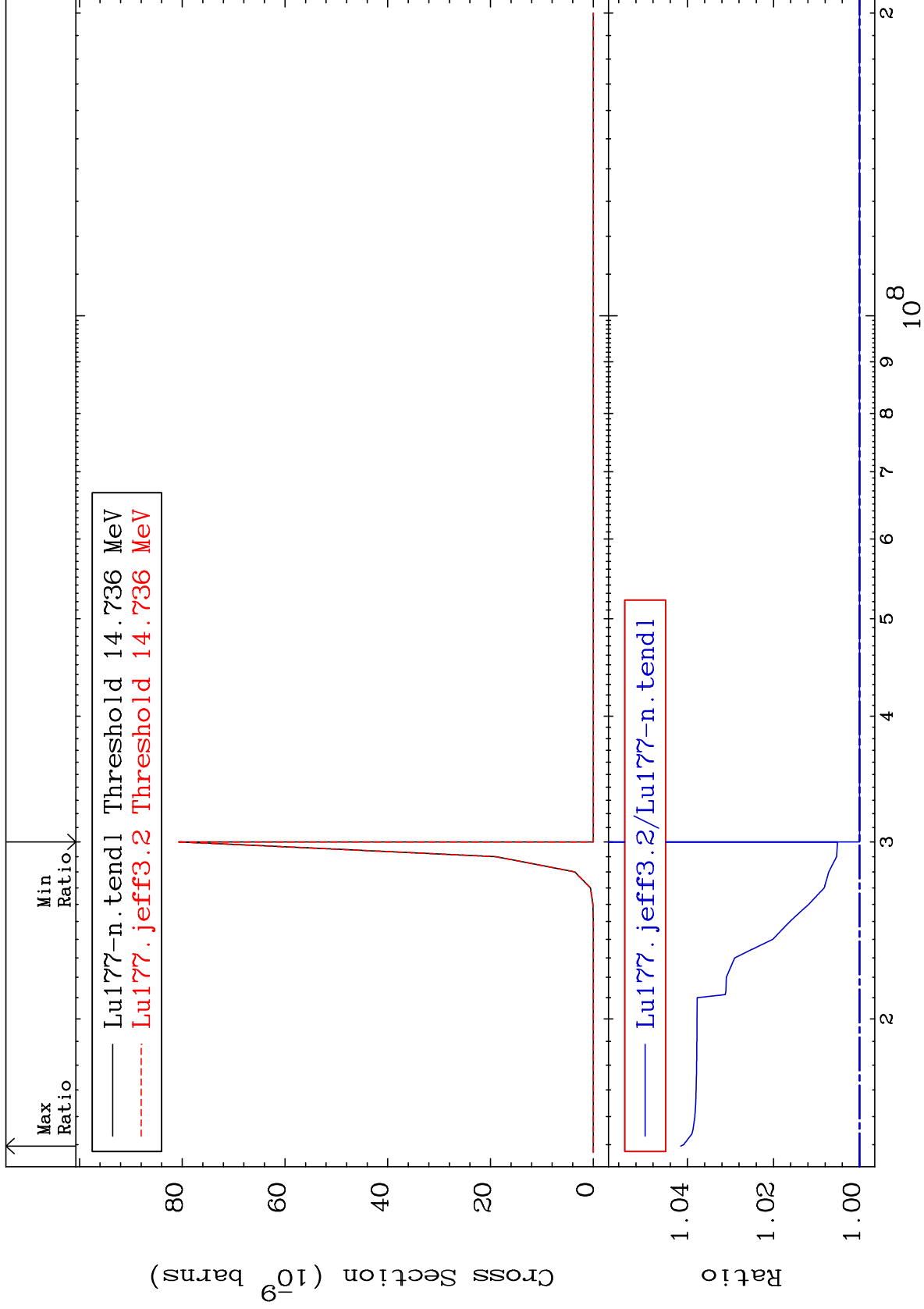
Incident Energy (eV)

<sup>71</sup>-Lu-177

MAT 7131

(n,2n) p  
Cross Section

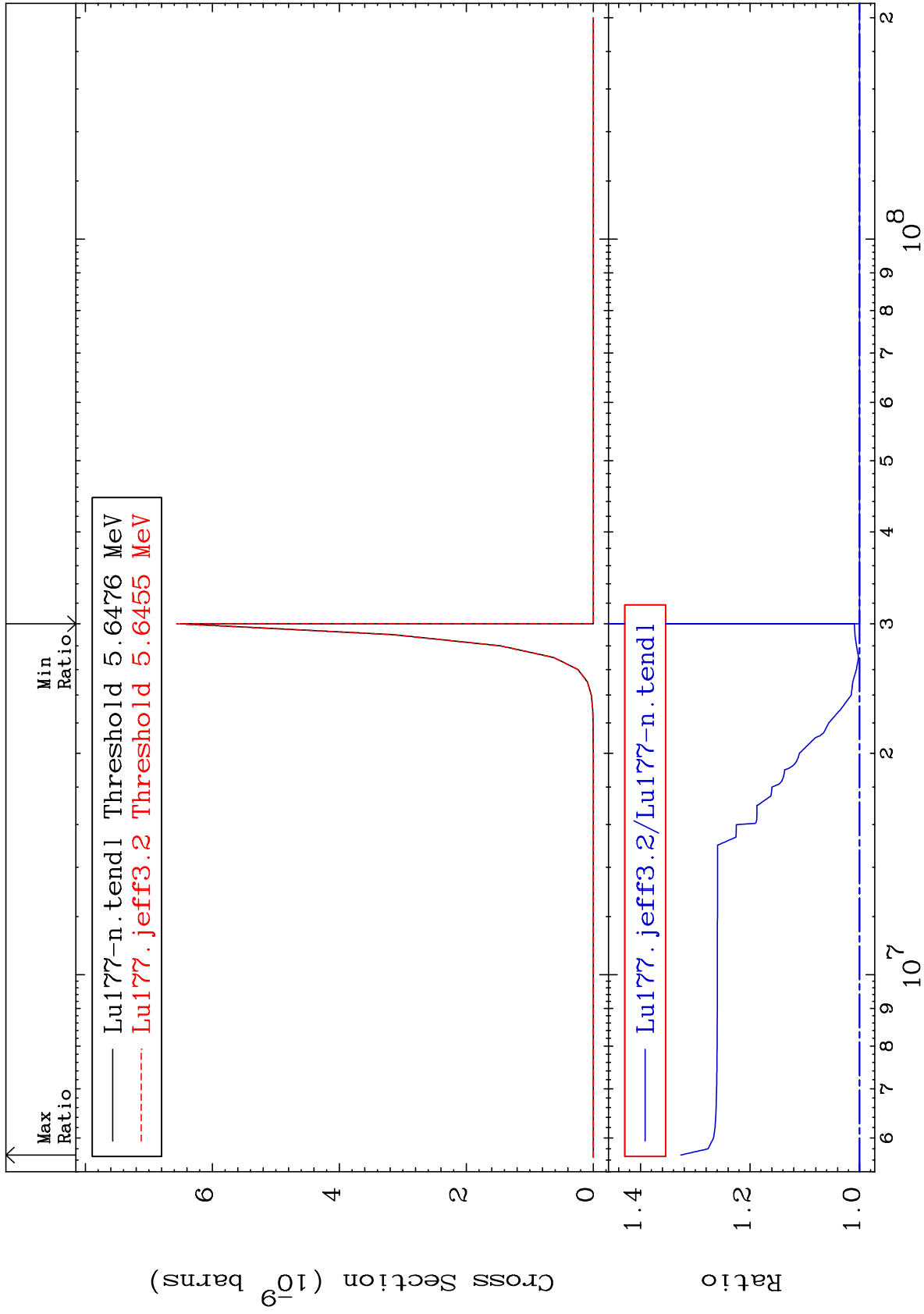
<sup>71</sup>Lu-<sup>177</sup>  
To 4.156 %



MAT 7131

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

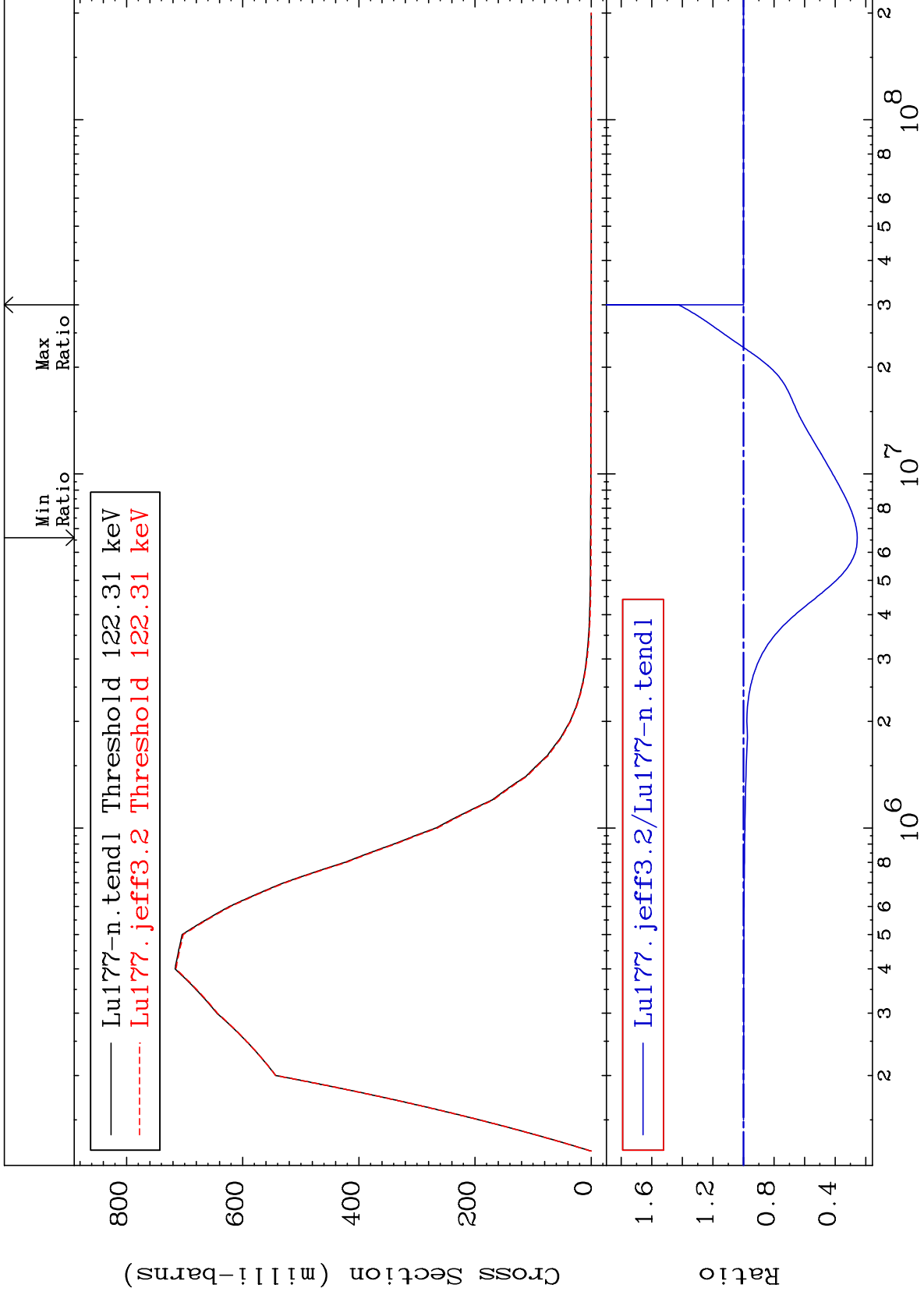
71-Lu-177  
0.000 To 32.65 %



MAT 7131

121.6 keV (n,n') Level  
Cross Section

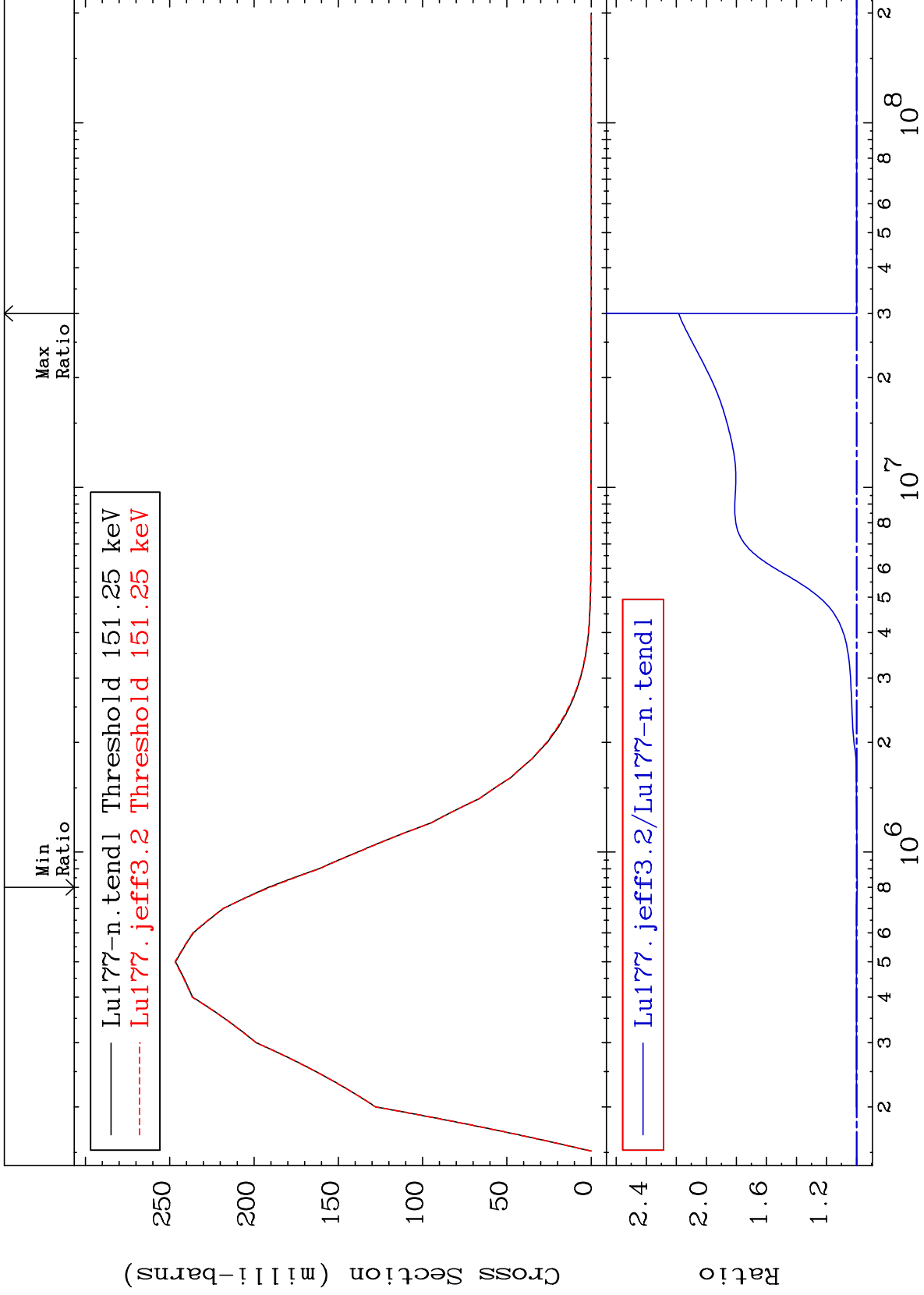
71-Lu-177  
-74.43 To 42.44 %



MAT 7131

150.4 keV (n,n') Level  
Cross Section

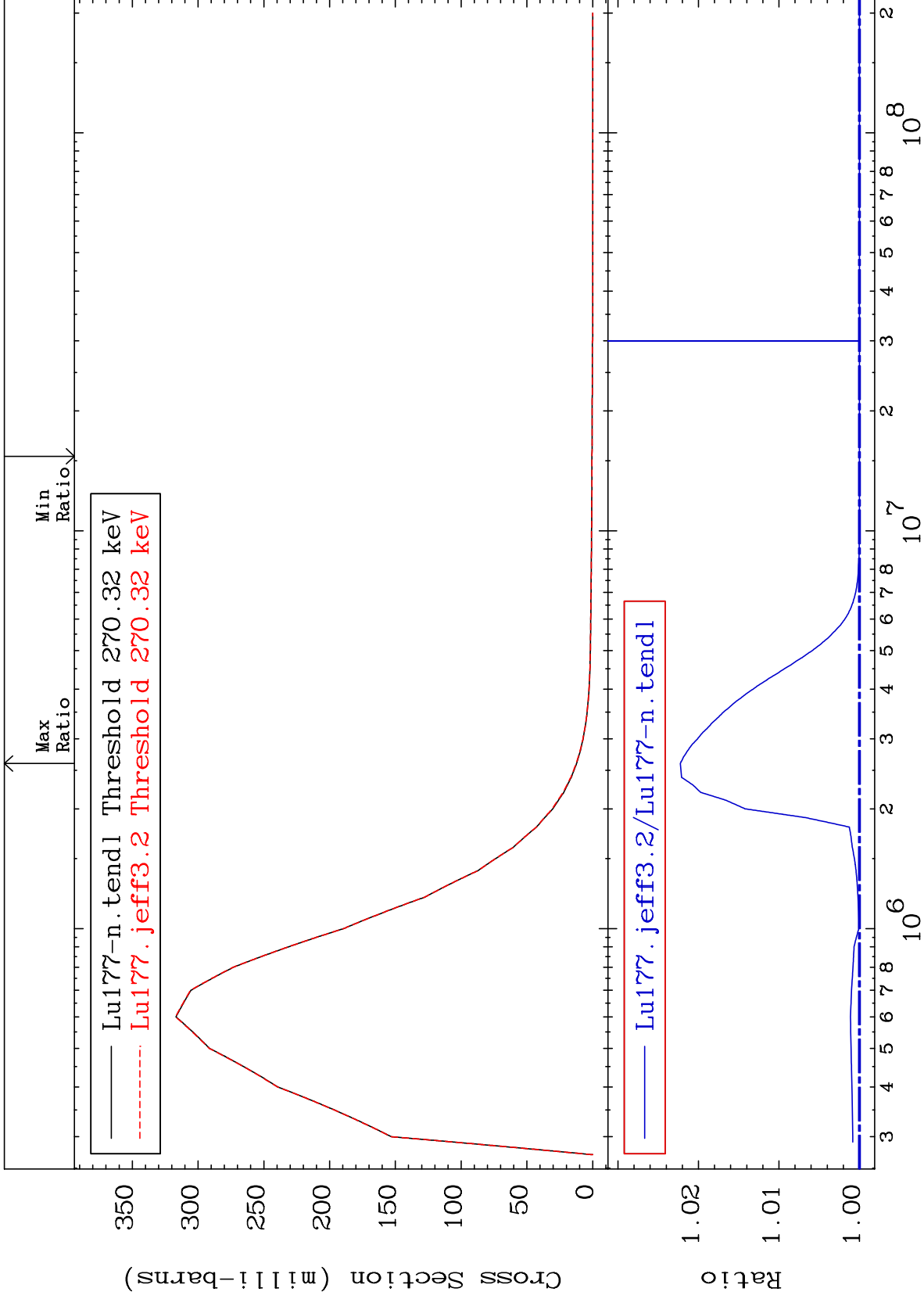
71-Lu-177  
-0.462 To 118.5 %



MAT 7131

268.8 keV (n,n') Level  
Cross Section

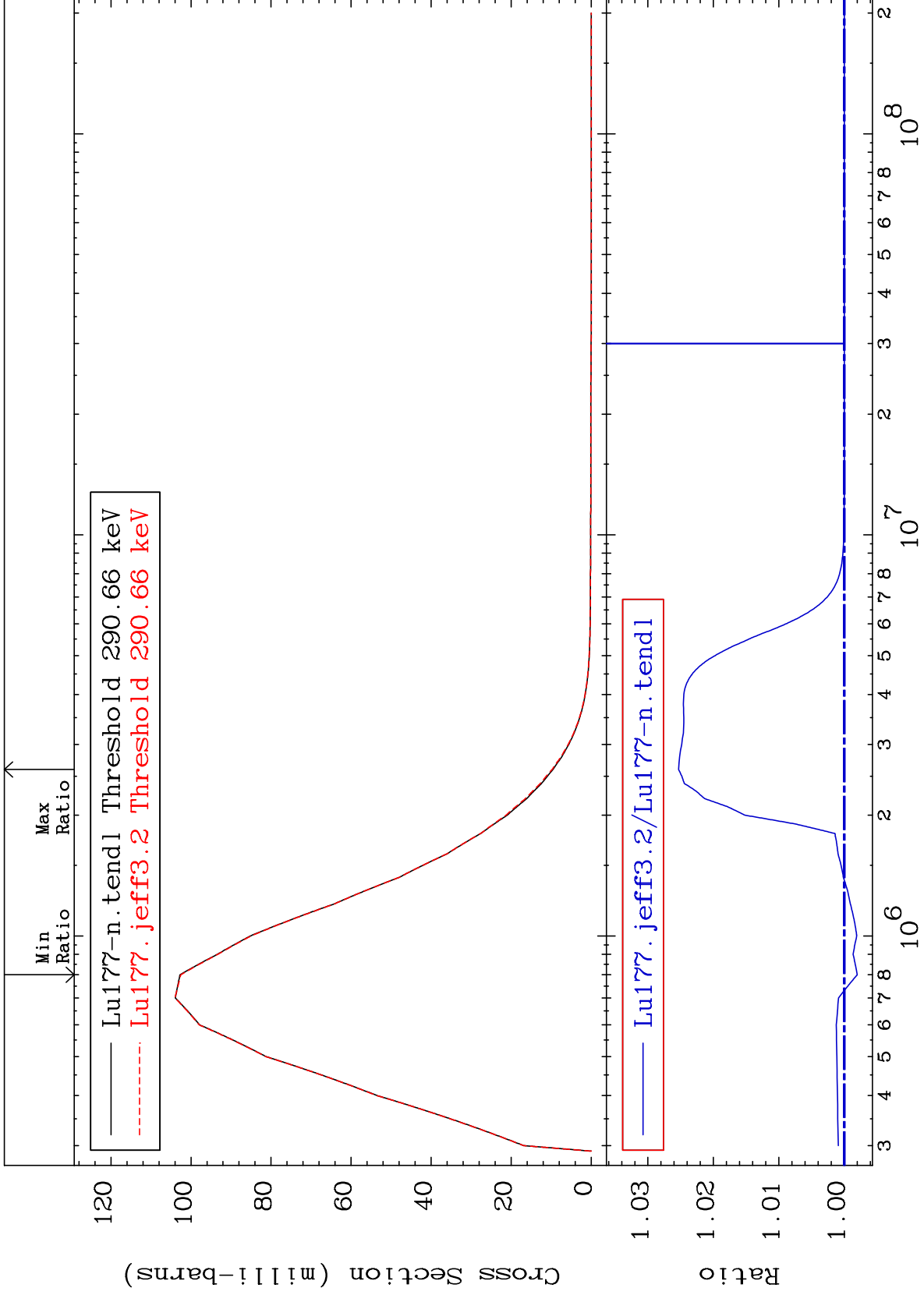
71-Lu-177  
0.000 To 2.225 %



MAT 7131

289.0 keV (n,n') Level  
Cross Section

<sup>71</sup>Lu-177  
-0.199 To 2.531 %



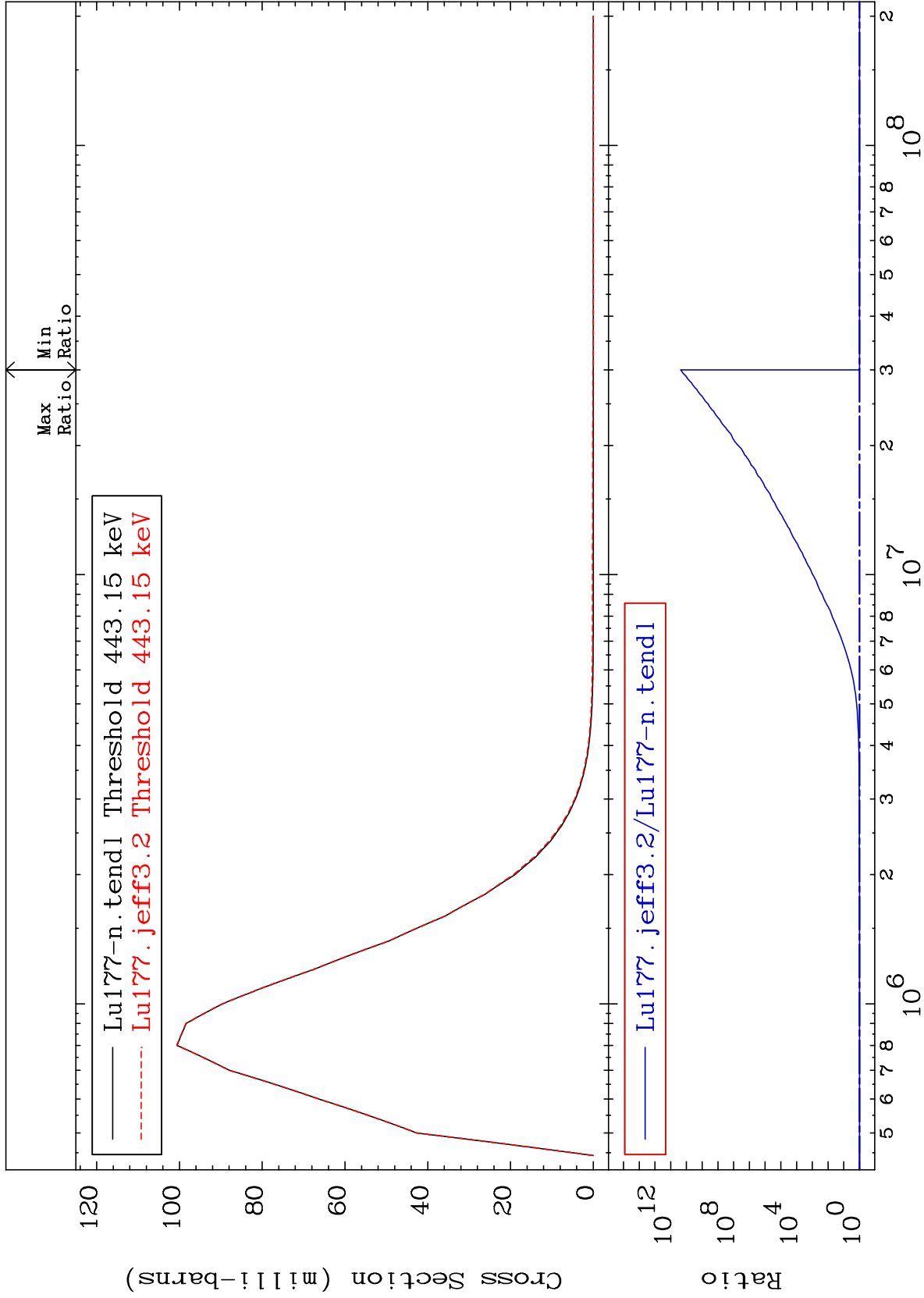
MAT 7131

440.6 keV (n,n') Level

<sup>71</sup>Lu-<sup>177</sup>

Cross Section

0.000 To 9999. %

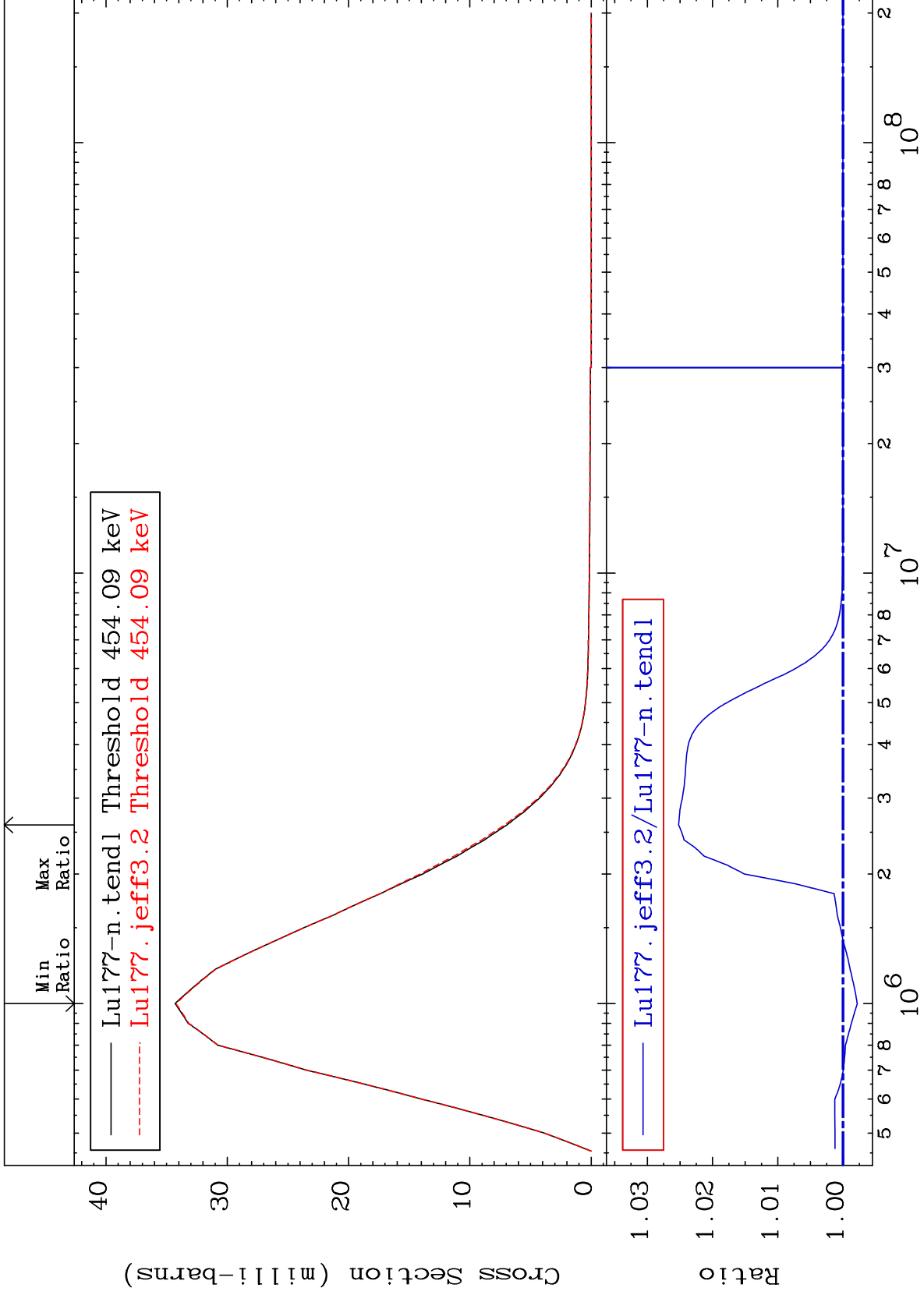




MAT 7131

451.5 keV (n,n') Level  
Cross Section

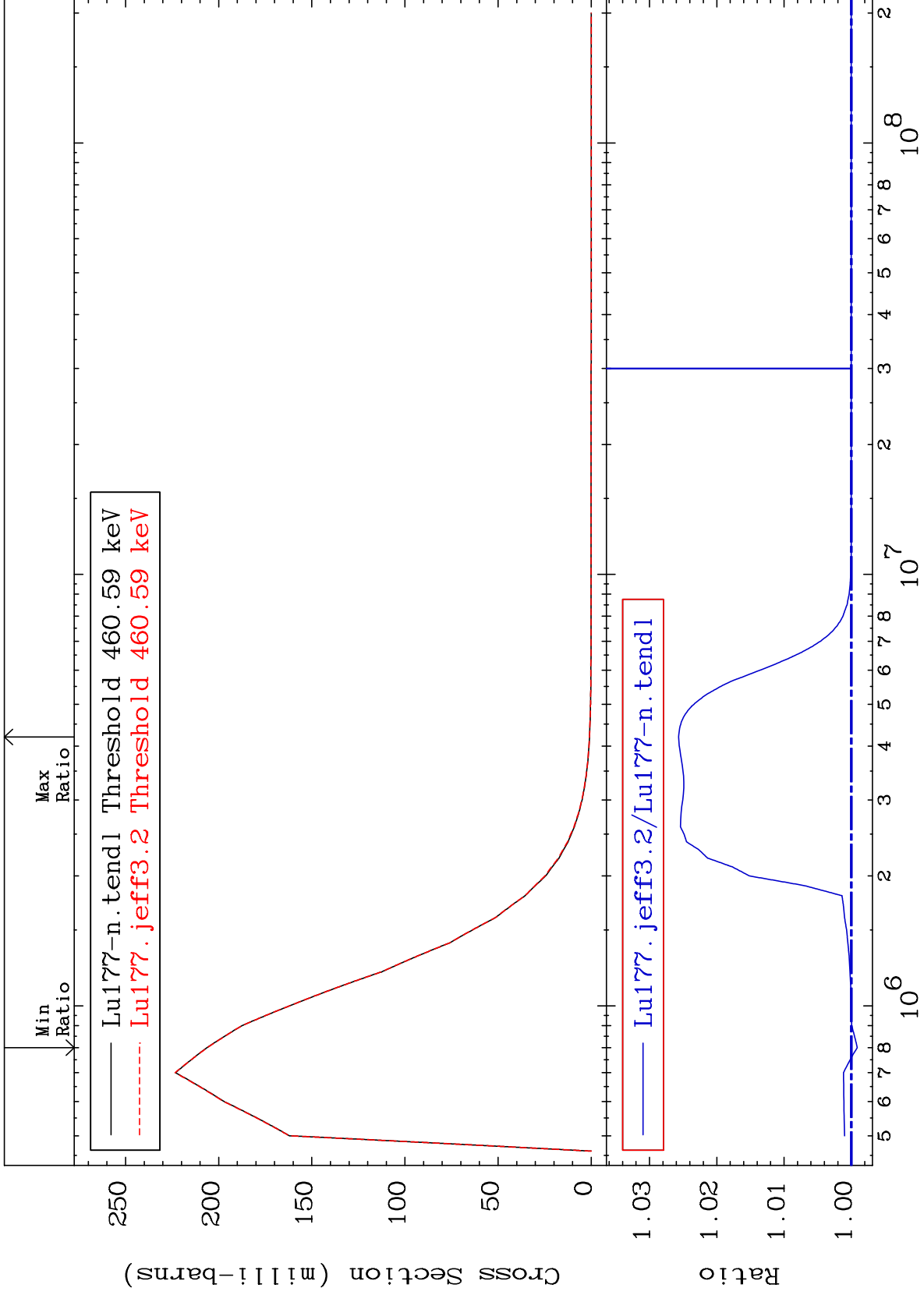
71-Lu-177  
-0.219 To 2.520 %



MAT 7131

458.0 keV (n,n') Level  
Cross Section

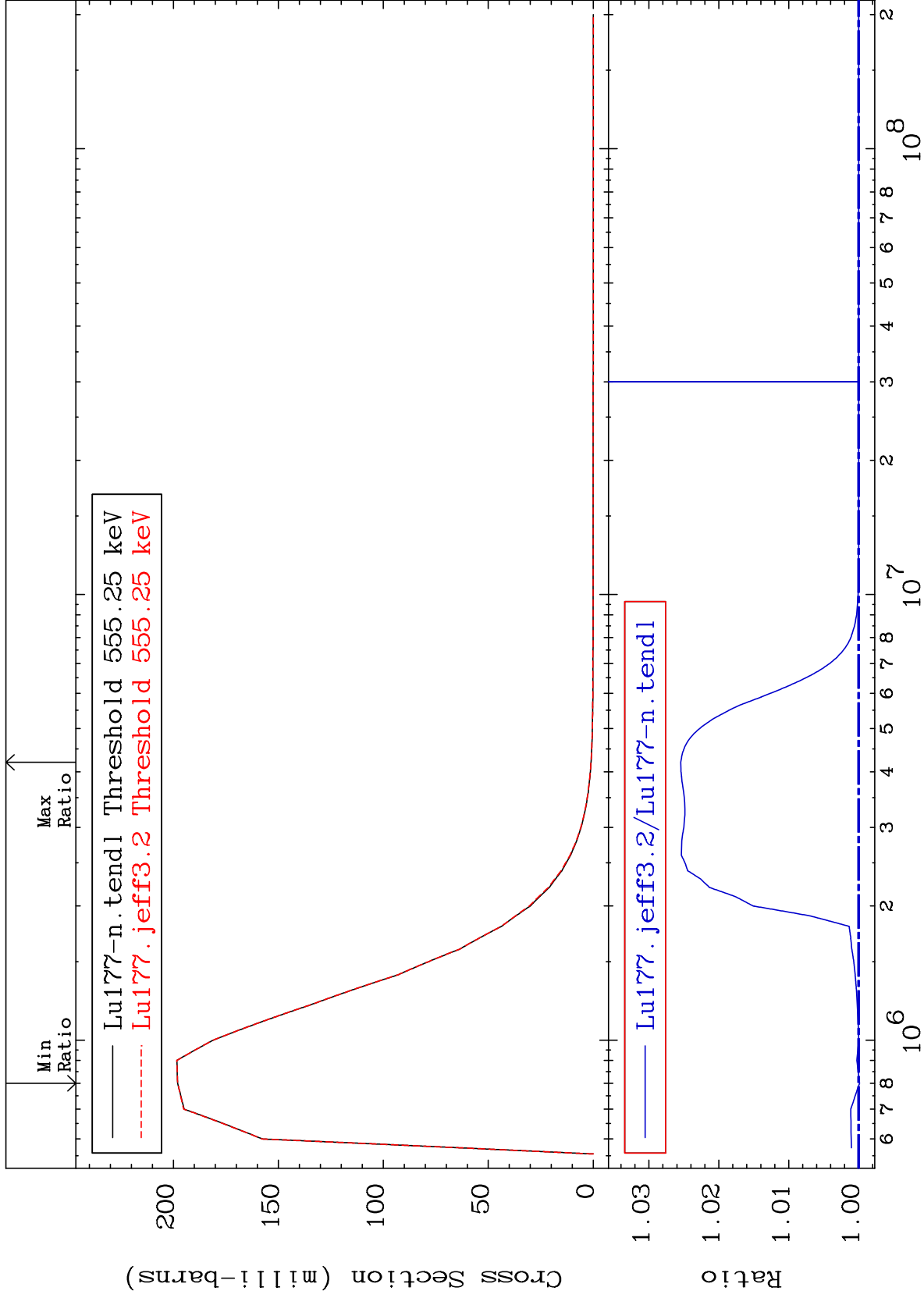
71-Lu-177  
-0.088 To 2.567 %



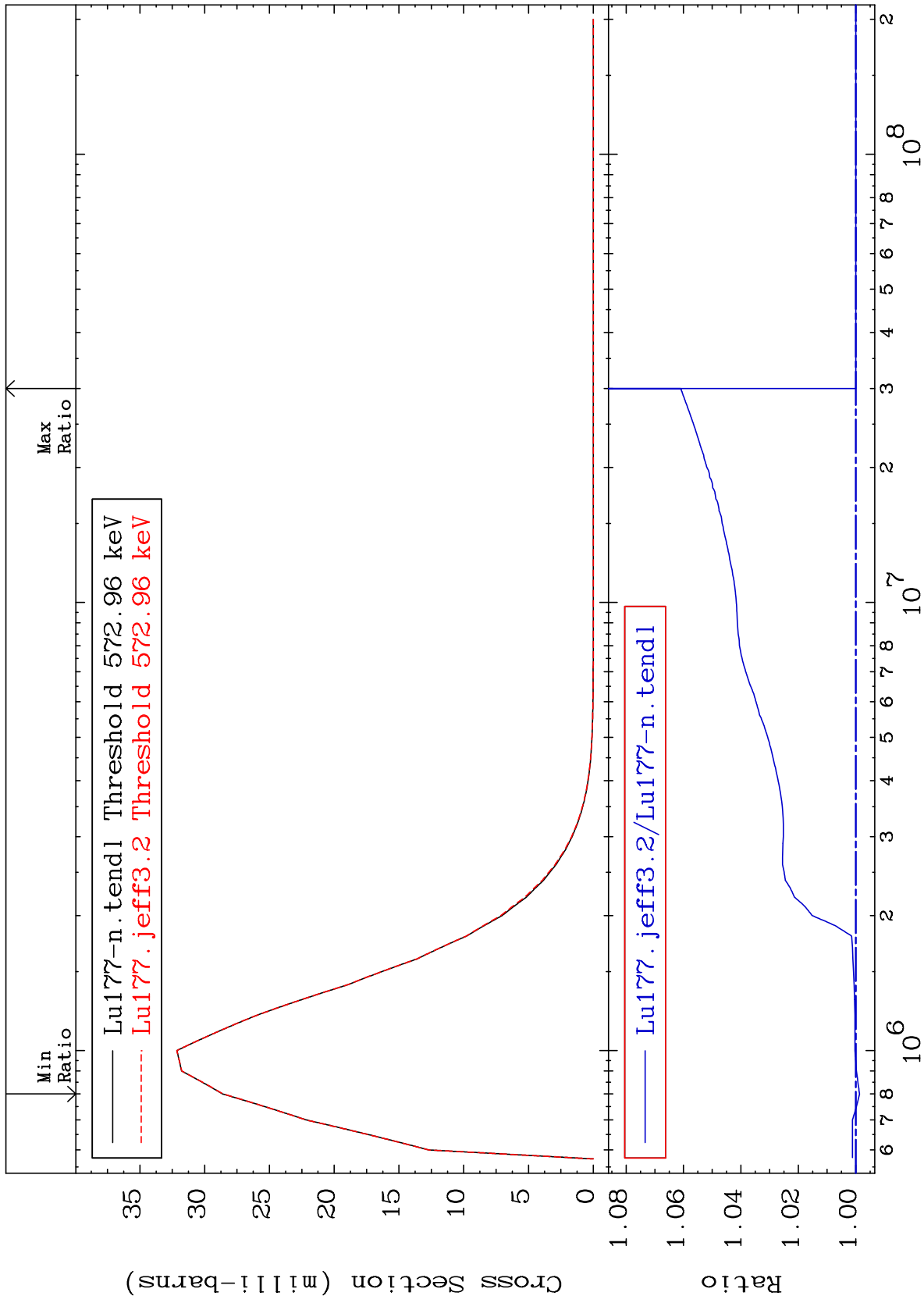
MAT 7131

552.1 keV (n,n') Level  
Cross Section

71-Lu-177  
-0.013 To 2.544 %



MAT 7131      569.7 keV (n,n') Level      71-Lu-177  
 Cross Section      -0.131 To 6.096 %



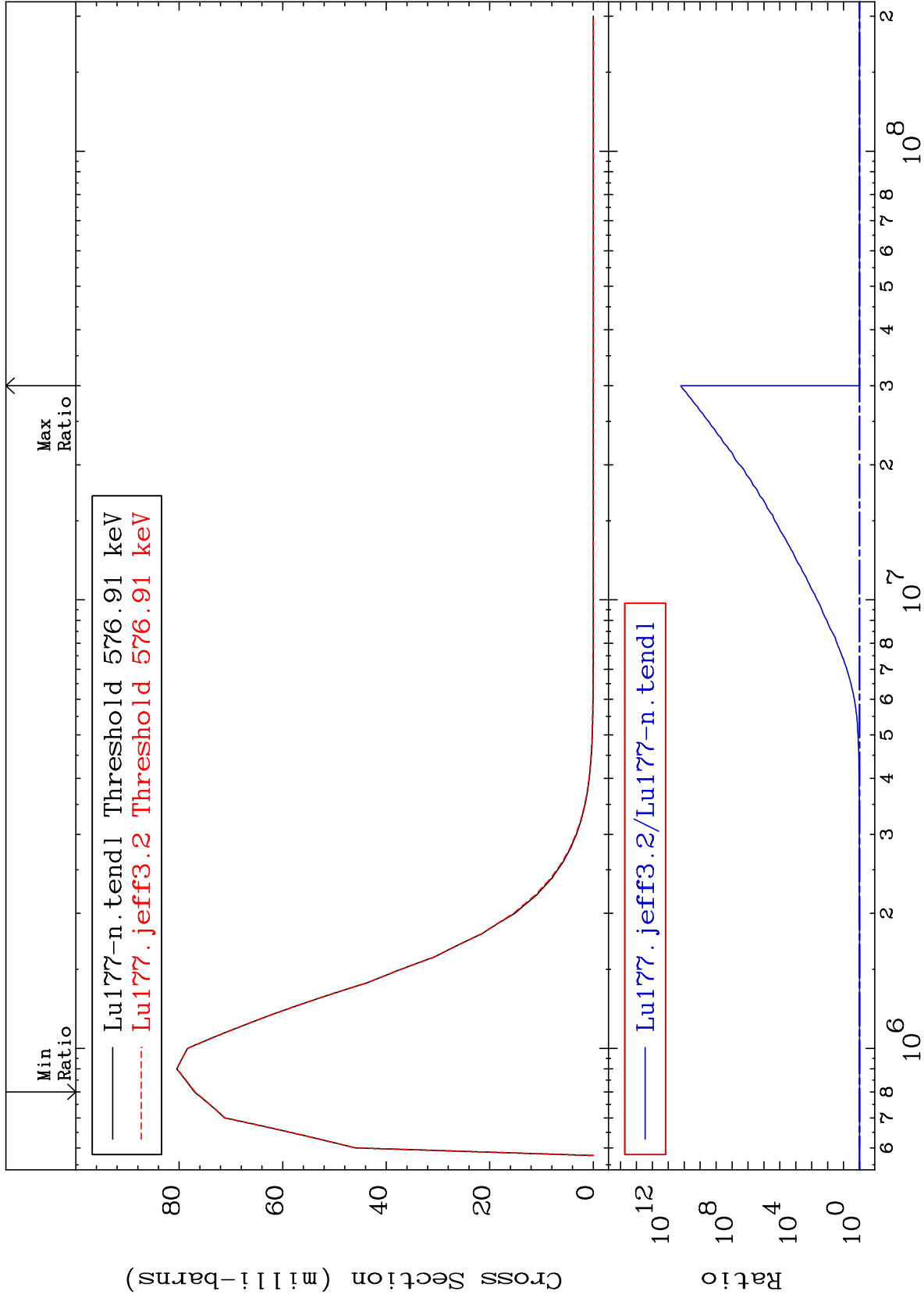
MAT 7131

573.6 keV (n,n') Level

<sup>71</sup>Lu-177

-0.144 To 9999. %

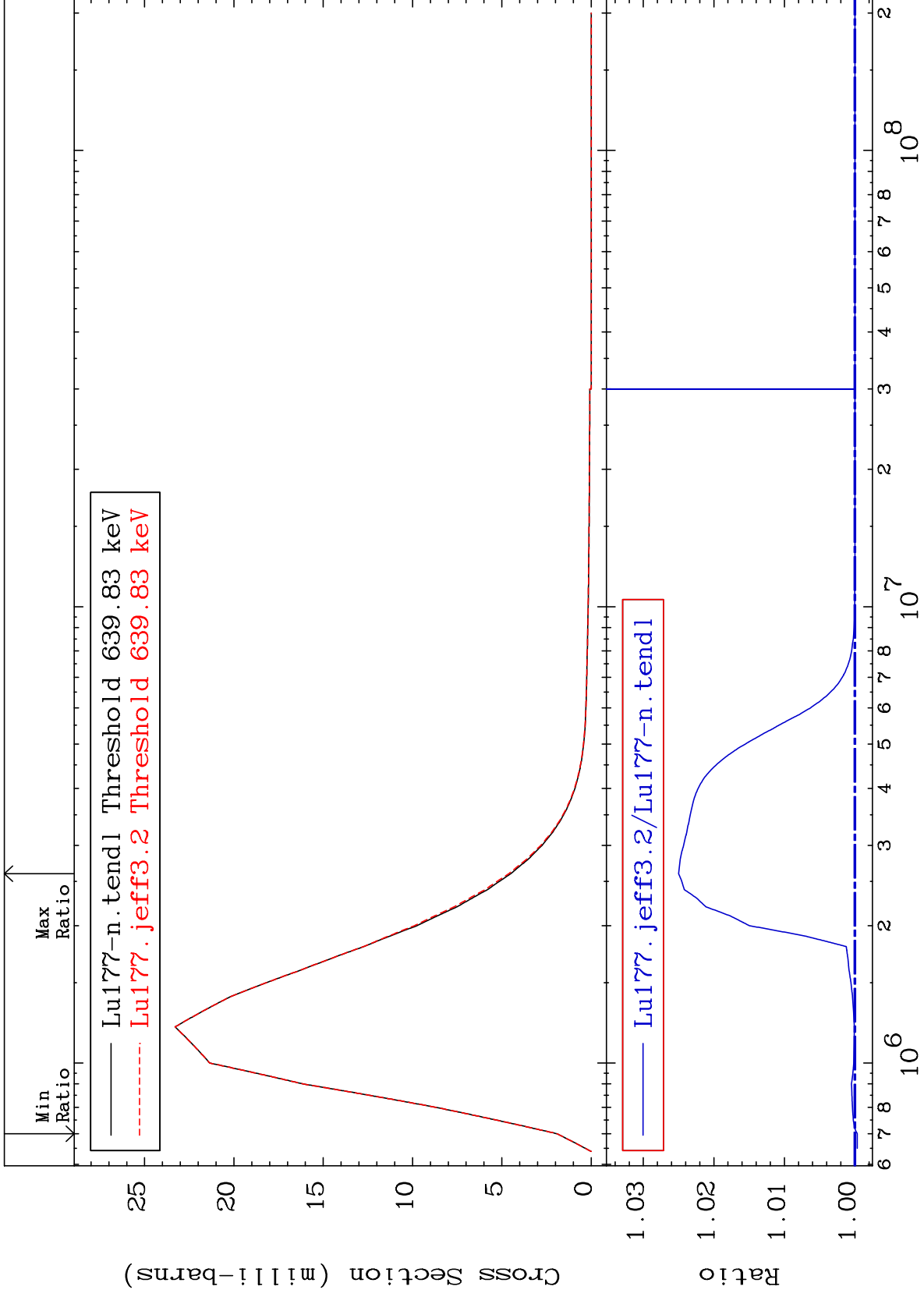
Cross Section



MAT 7131

636.2 keV (n,n') Level  
Cross Section

71-Lu-177  
-0.033 To 2.499 %



30

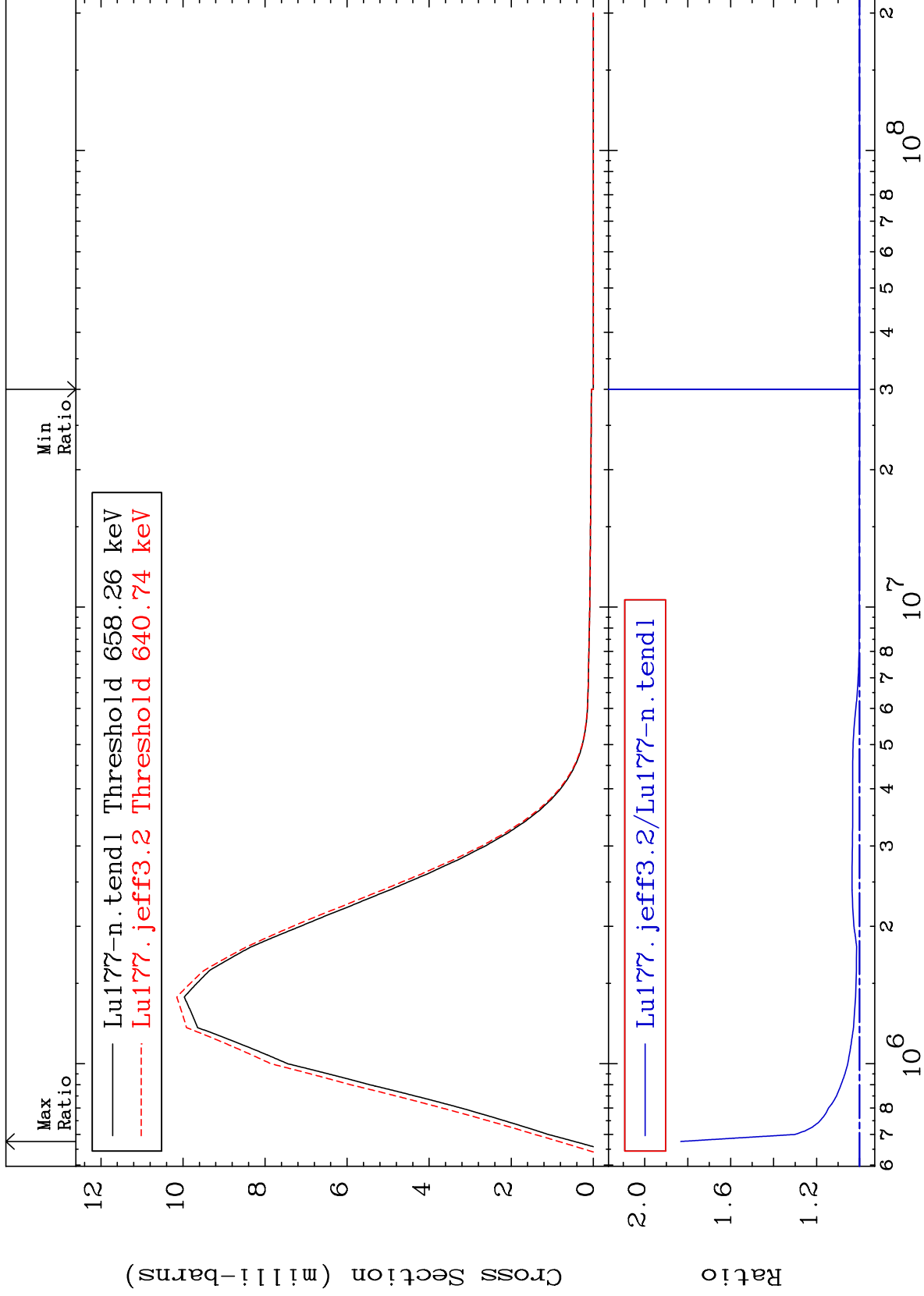
Incident Energy (eV)

71-Lu-177

MAT 7131

654.5 keV (n,n') Level  
Cross Section

71-Lu-177  
0.000 To 83.25 %



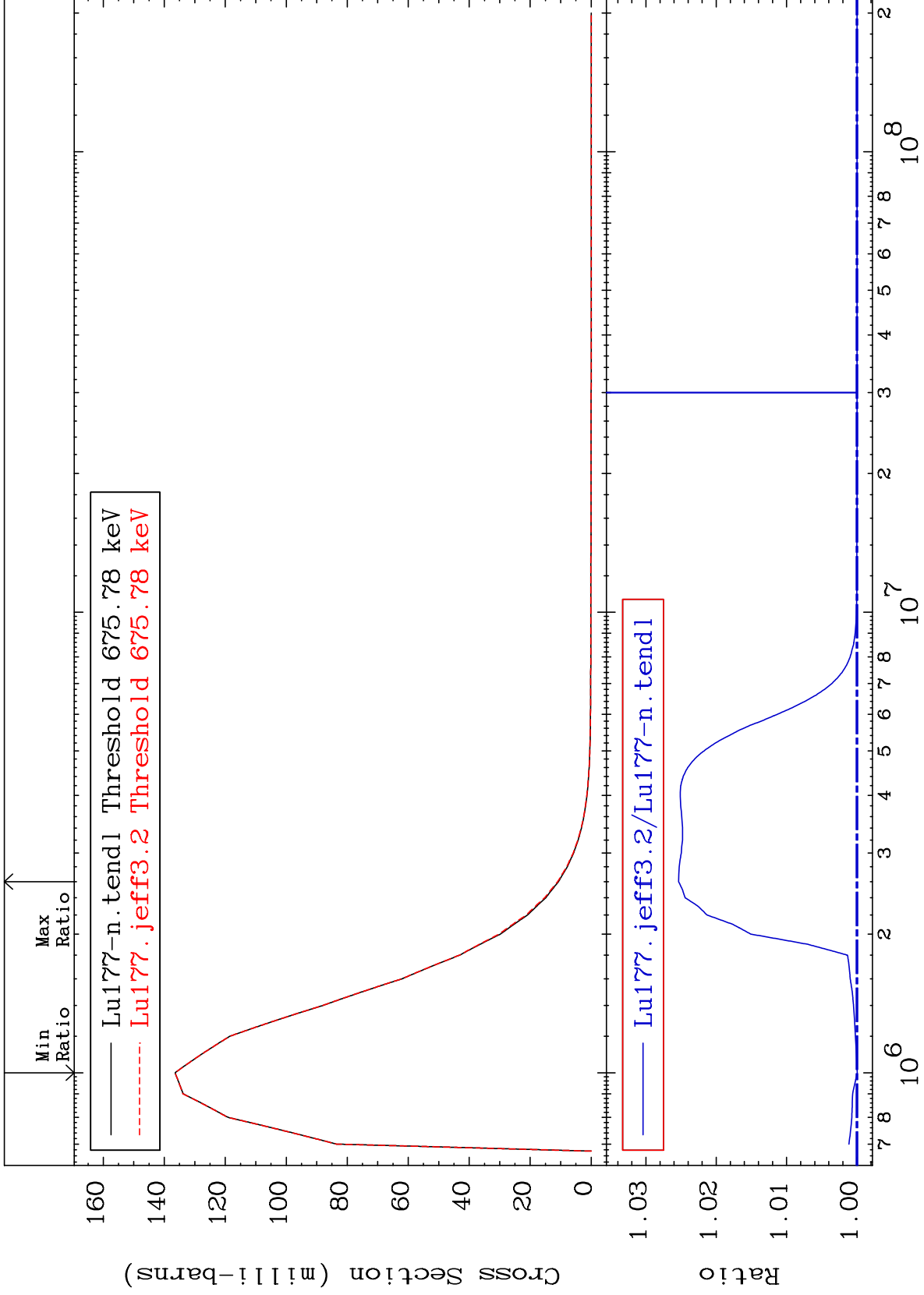
31

71-Lu-177

MAT 7131

671.9 keV (n,n') Level  
Cross Section

71-Lu-177  
-0.004 To 2.535 %

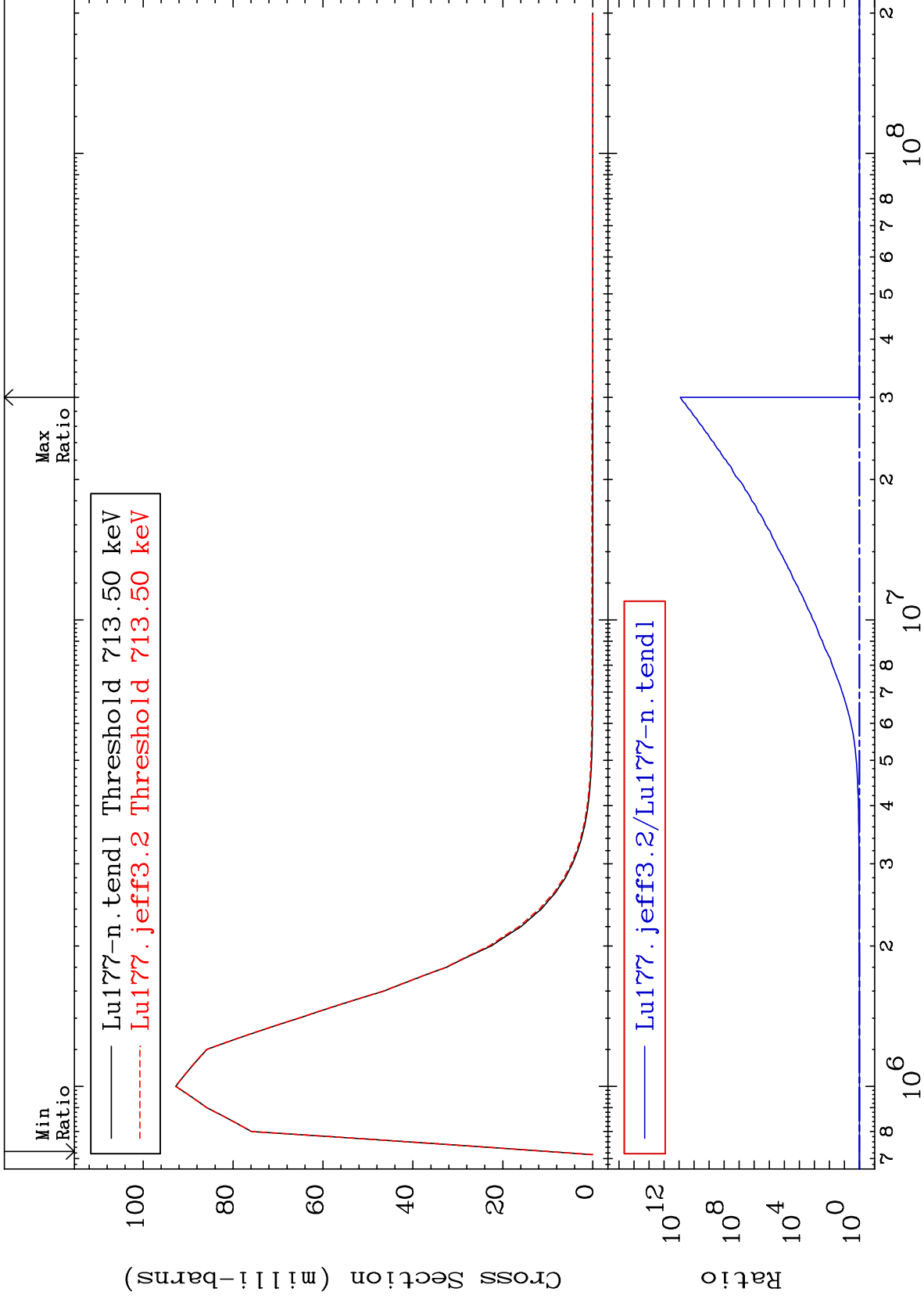




MAT 7131

709.5 keV (n,n') Level  
Cross Section

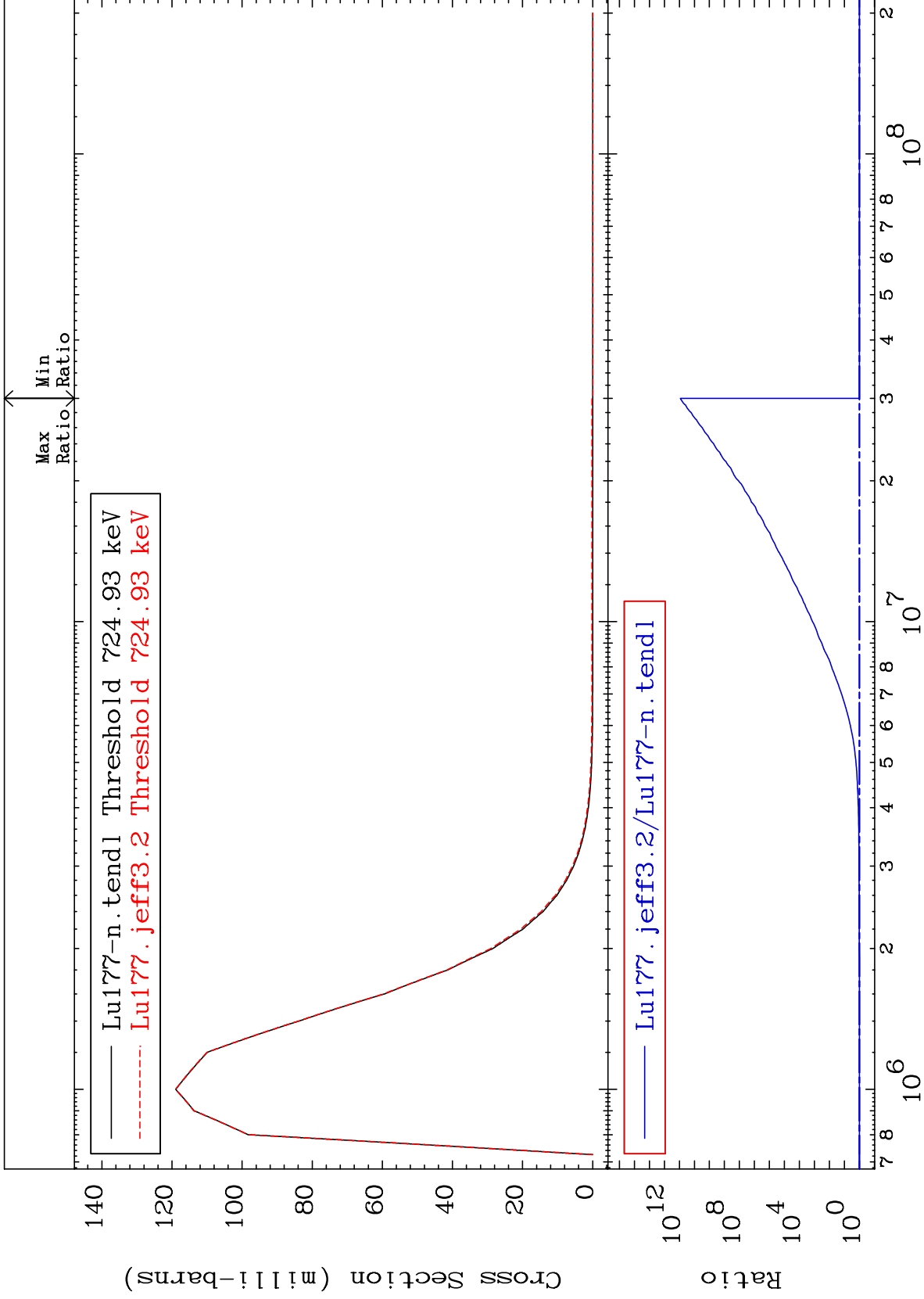
71-Lu-177  
-0.035 To 9999. %



MAT 7131

720.8 keV (n,n') Level  
Cross Section

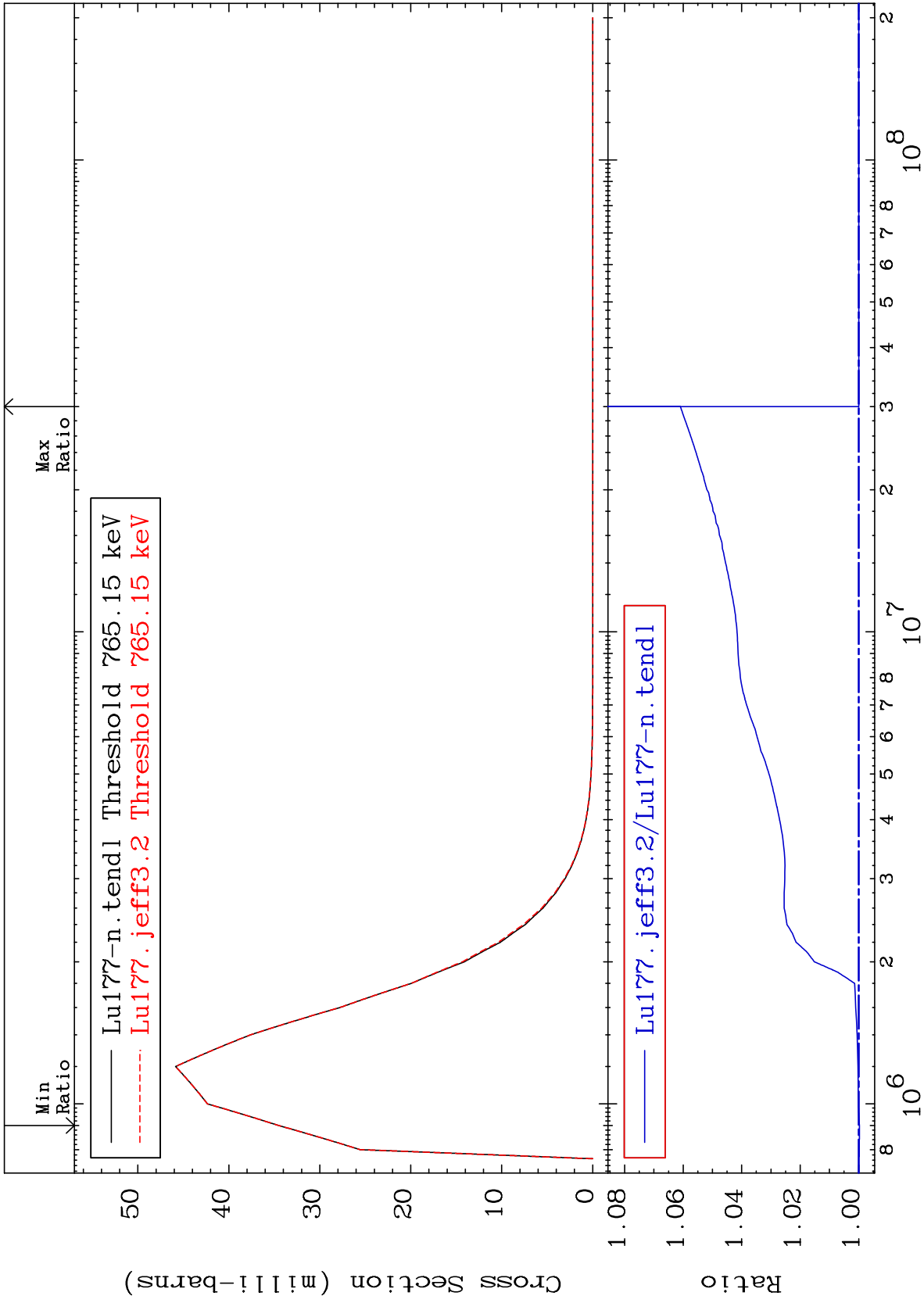
71-Lu-177  
To 9999. %  
0.000



MAT 7131

760.8 keV (n,n') Level  
Cross Section

71-Lu-177  
-0.025 To 6.096 %



35

Incident Energy (eV)

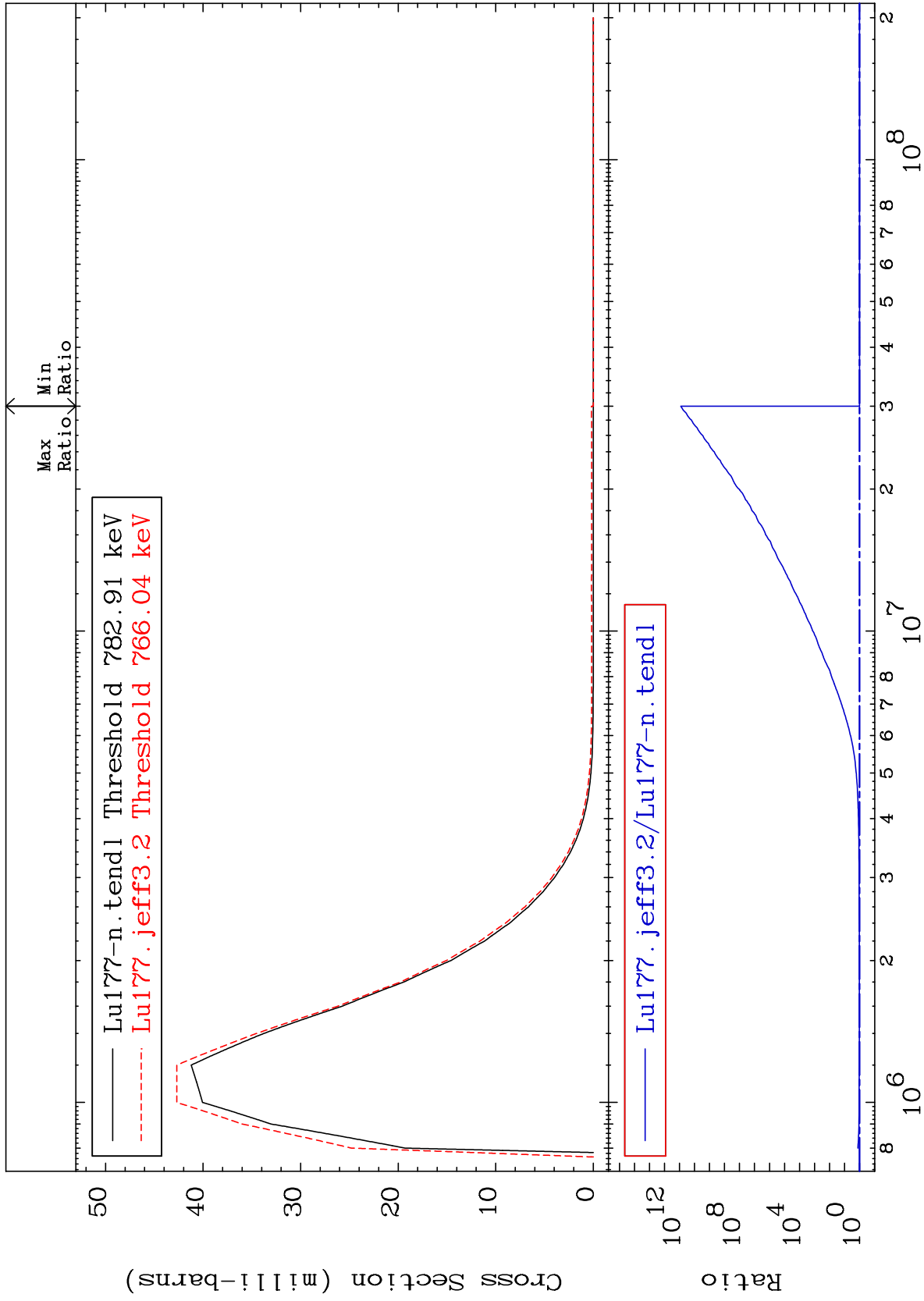
71-Lu-177

MAT 7131

778.5 keV (n,n') Level

71-Lu-177

Cross Section To 9999. %



36

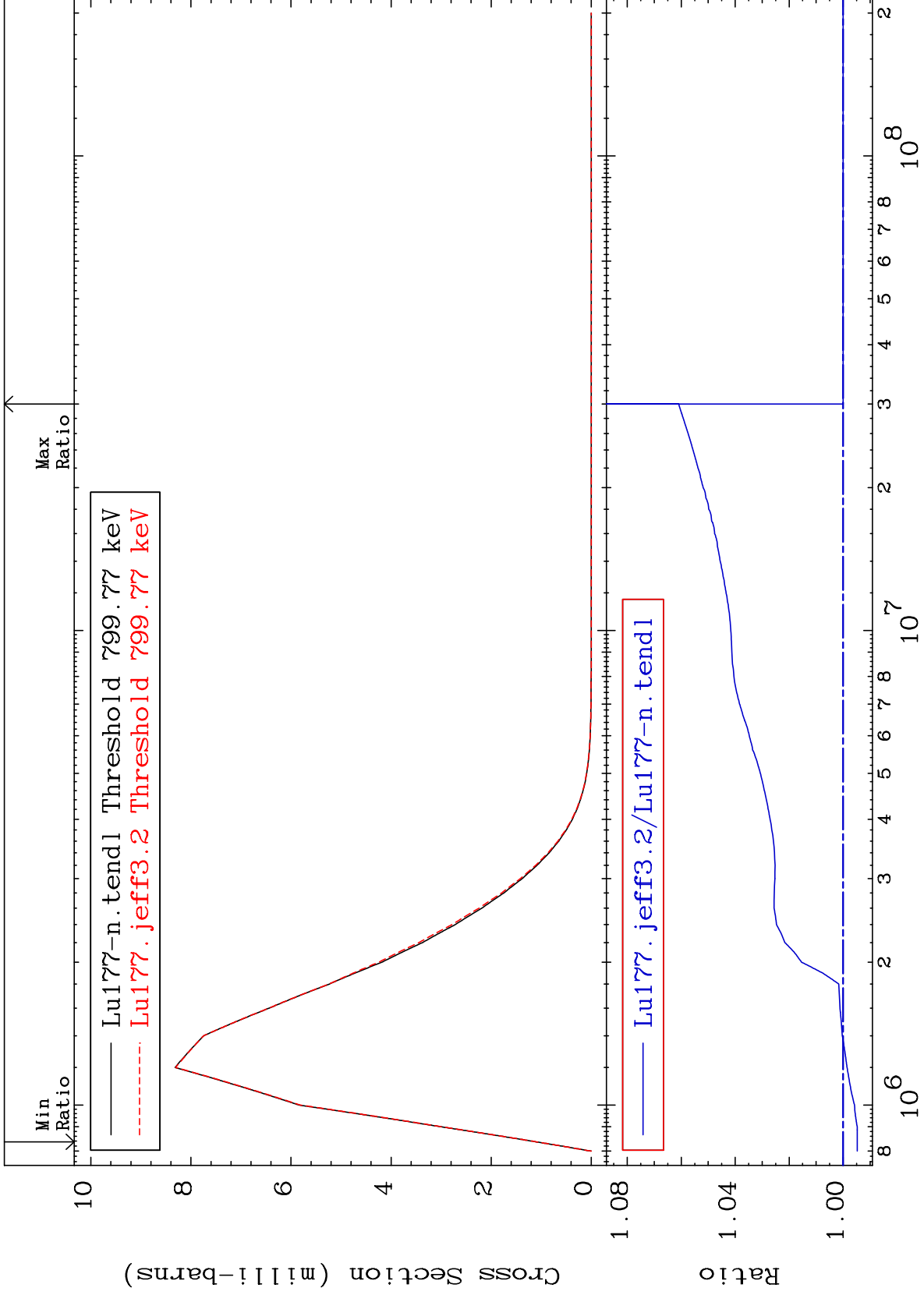
Incident Energy (eV)

71-Lu-177

MAT 7131

795.2 keV (n,n') Level  
Cross Section

71-Lu-177  
-0.525 To 6.096 %



37

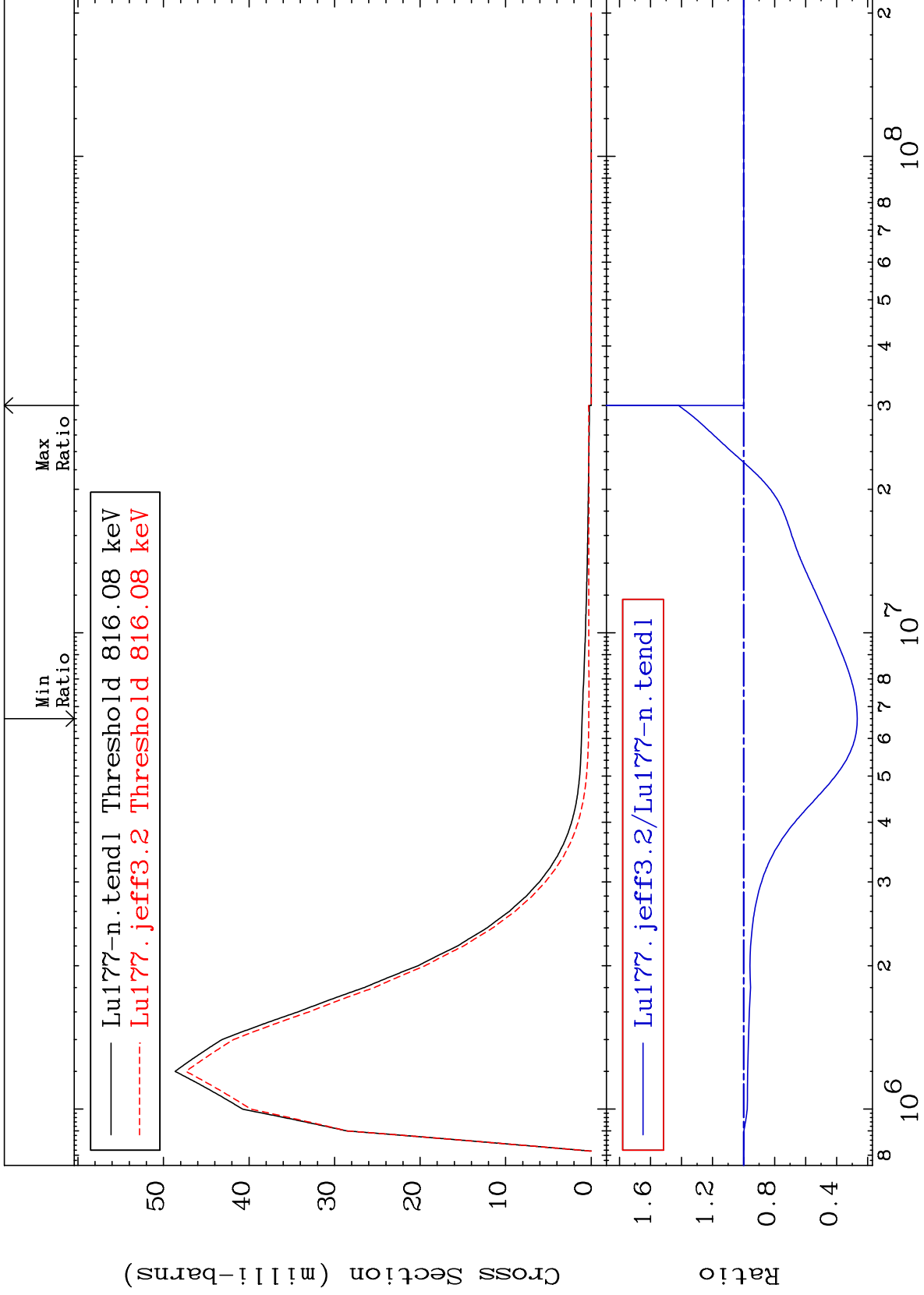
Incident Energy (eV)

71-Lu-177

MAT 7131

811.5 keV (n,n') Level  
Cross Section

<sup>71</sup>-Lu-177  
-73.27 To 41.87 %



38

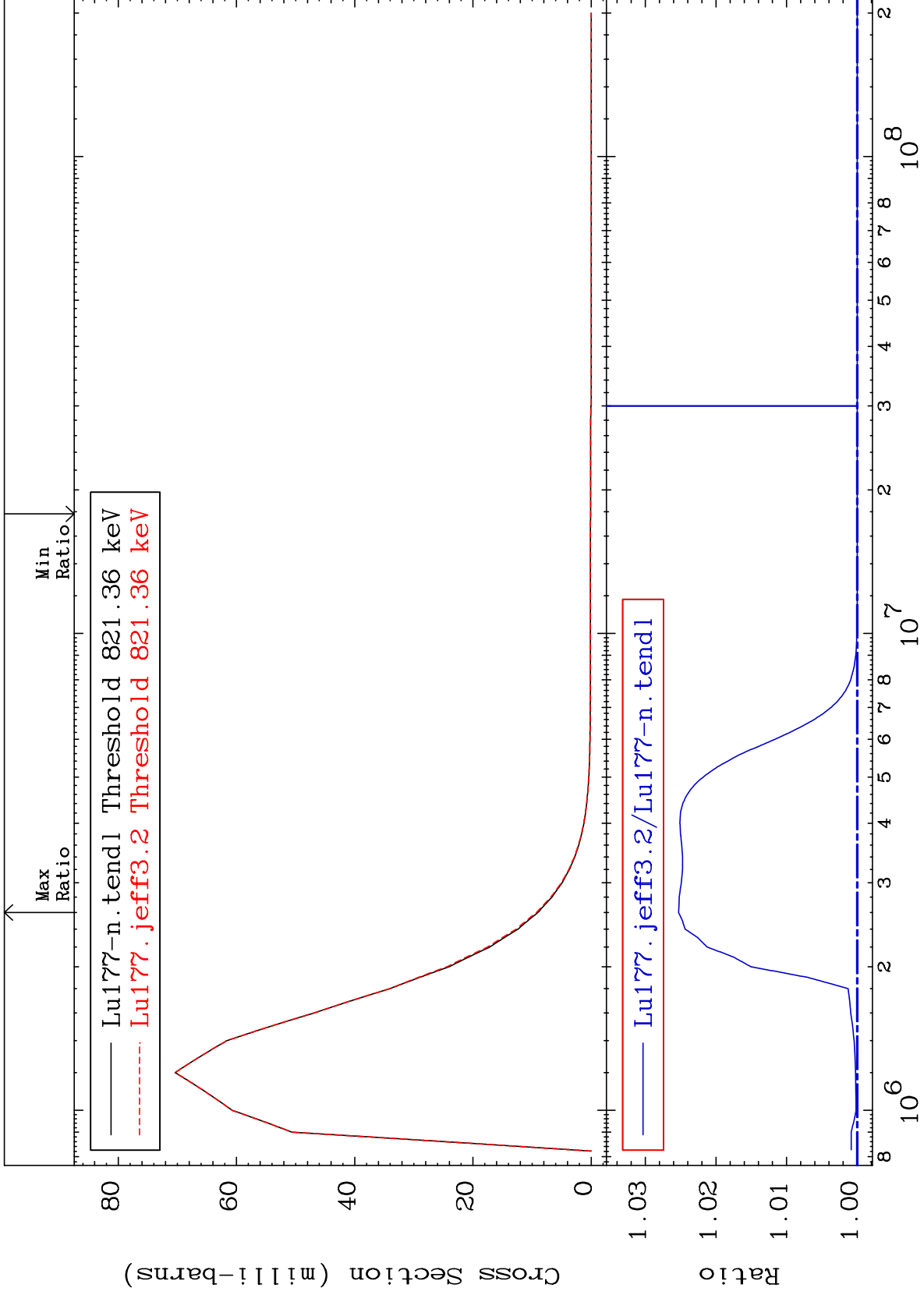
Incident Energy (eV)

<sup>71</sup>-Lu-177

MAT 7131

816.7 keV (n,n') Level  
Cross Section

71-Lu-177  
0.000 To 2.529 %



39

Incident Energy (eV)

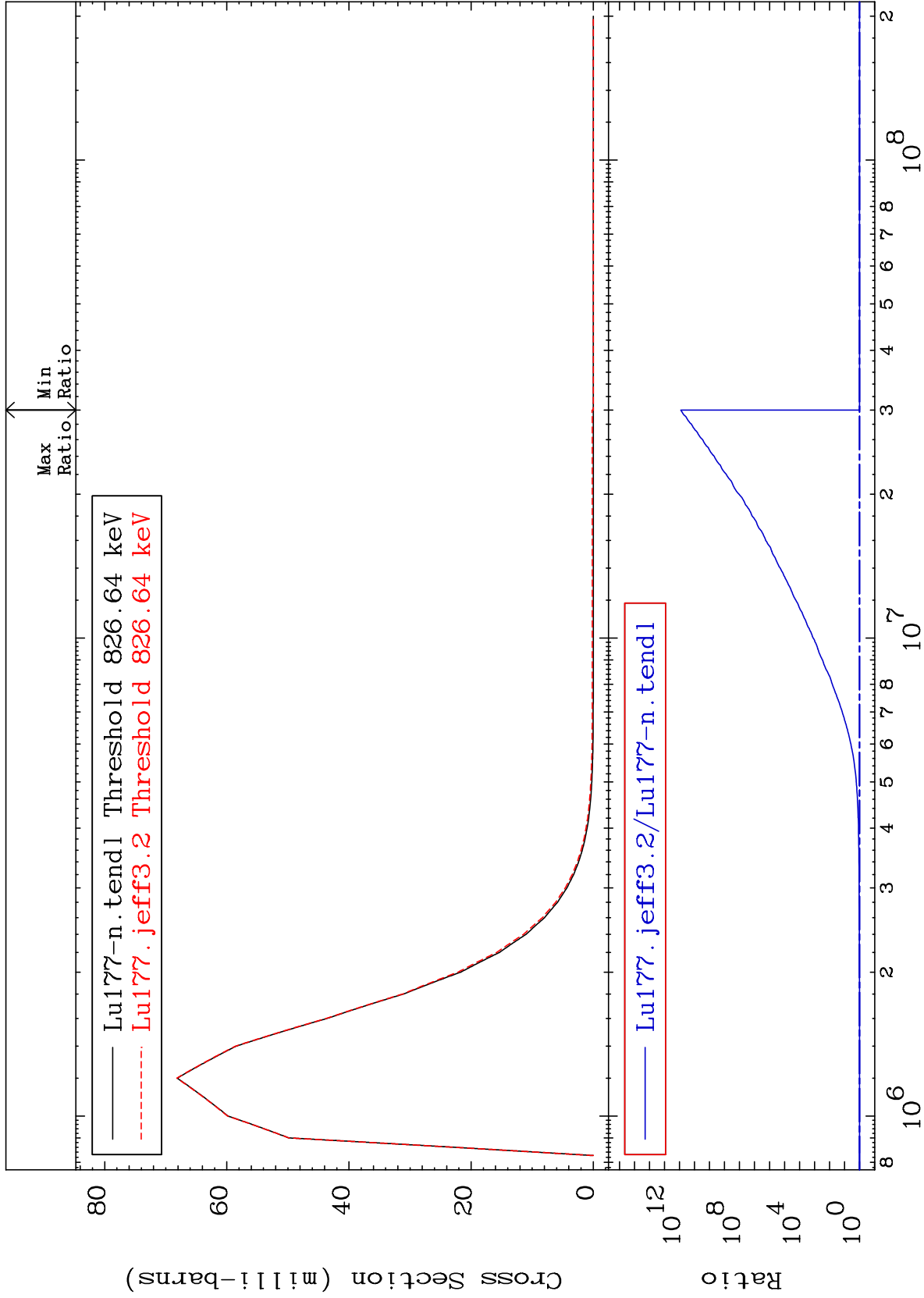
71-Lu-177

MAT 7131

822.0 keV (n,n') Level

71-Lu-177

0.000 To 9999. %

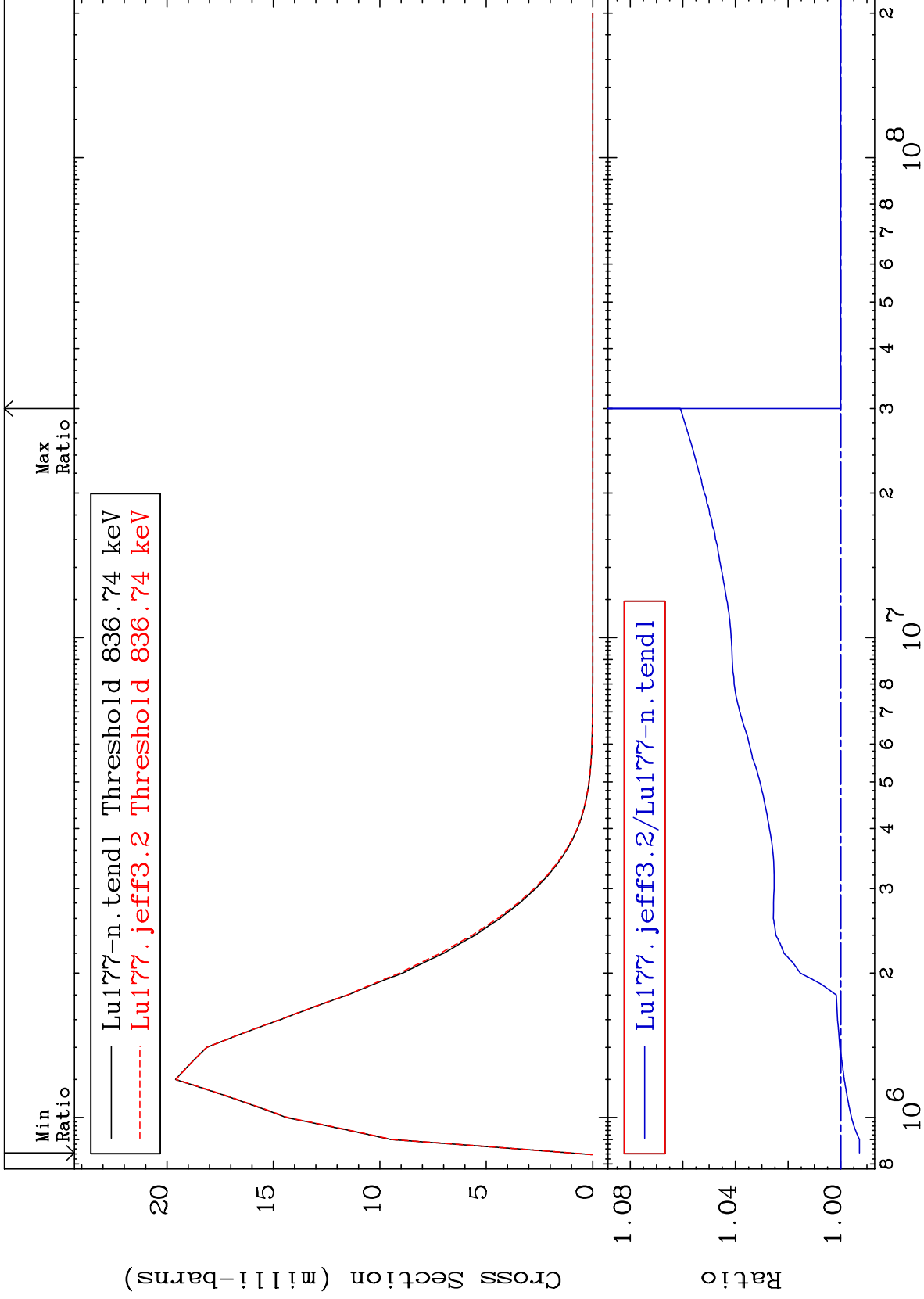




MAT 7131

832.0 keV (n,n') Level  
Cross Section

71-Lu-177  
-0.716 To 6.096 %



41

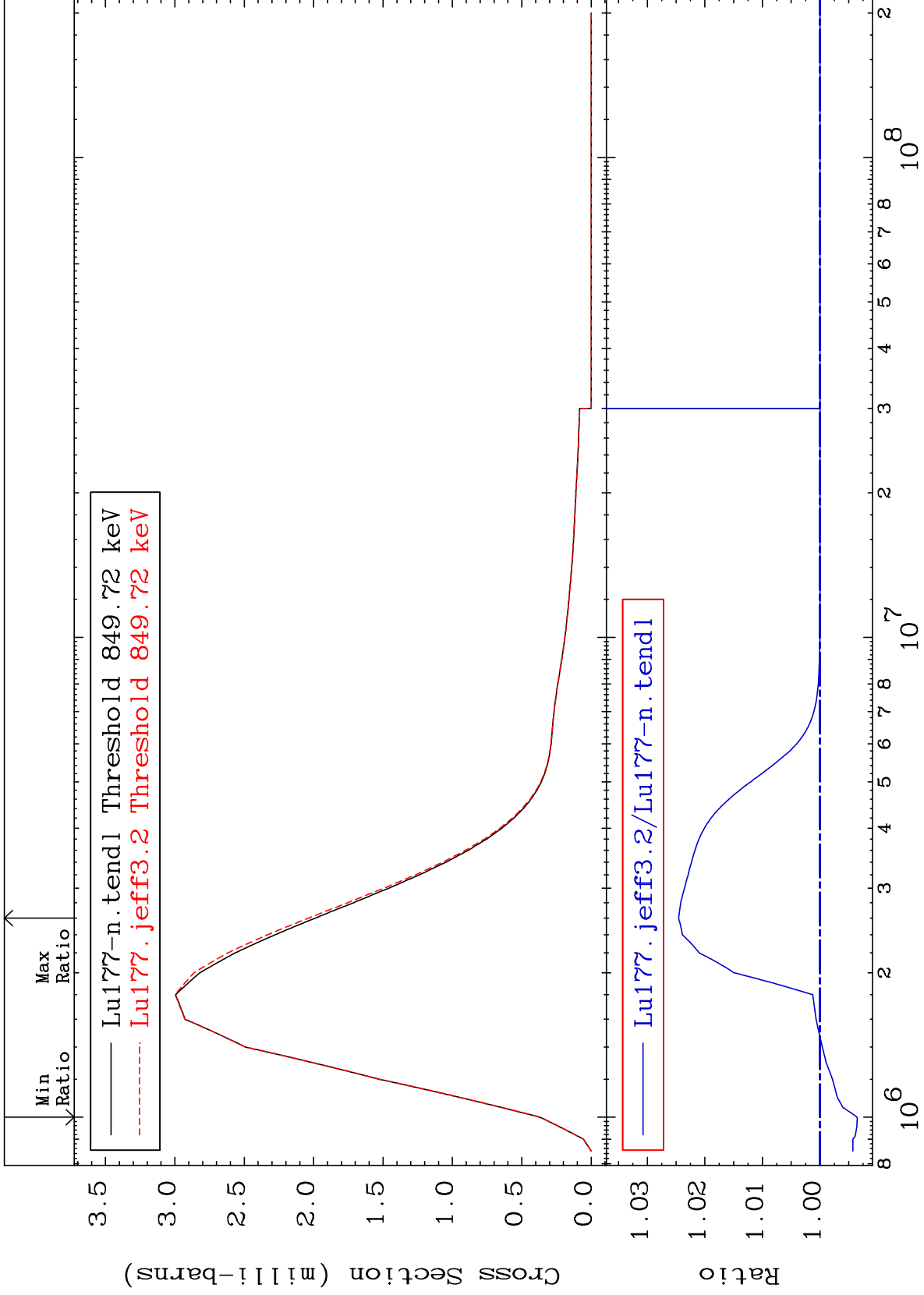
Incident Energy (eV)

71-Lu-177

MAT 7131

844.9 keV (n,n') Level  
Cross Section

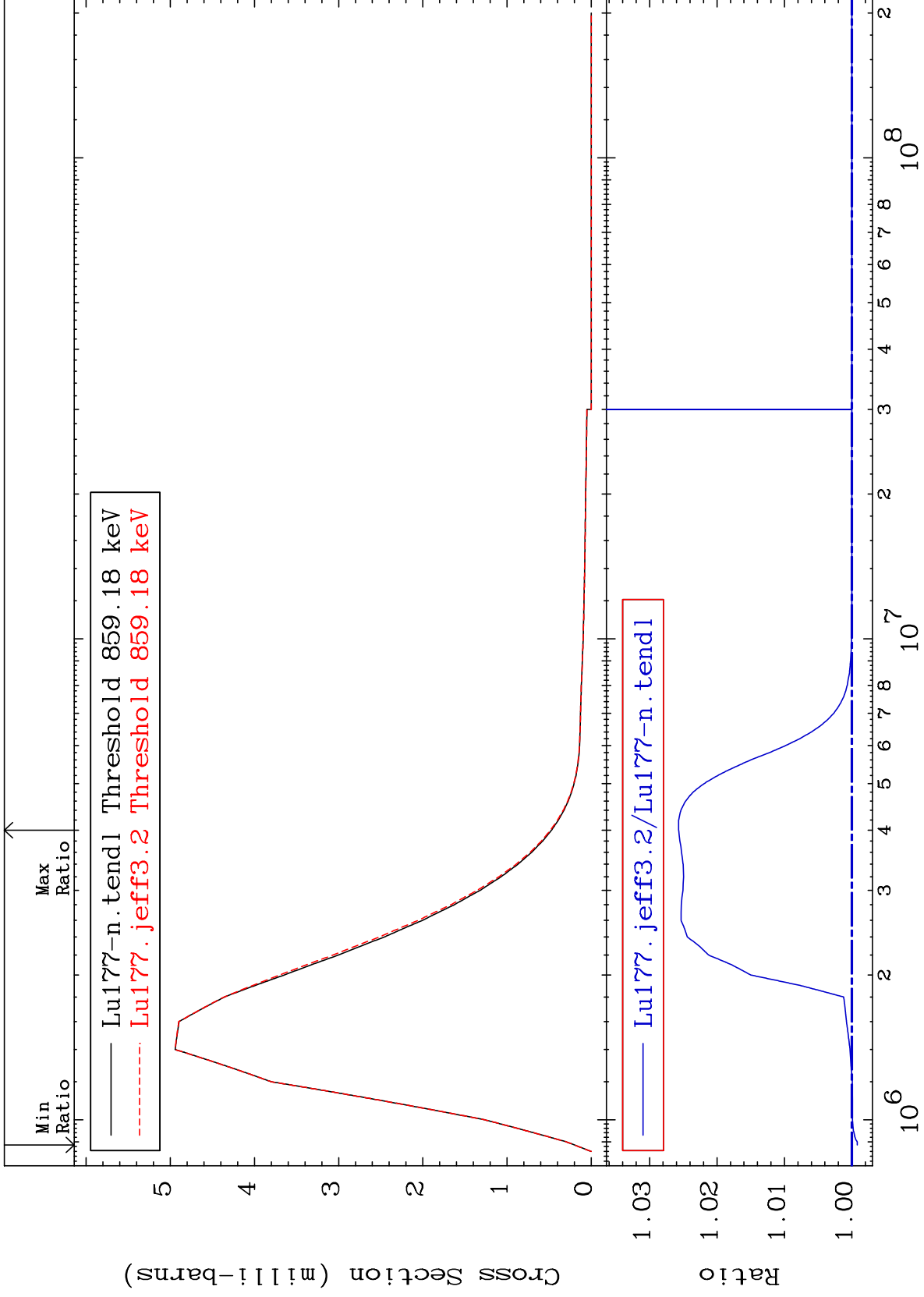
71-Lu-177  
-0.648 To 2.456 %



MAT 7131

854.3 keV (n,n') Level  
Cross Section

71-Lu-177  
-0.080 To 2.569 %



43

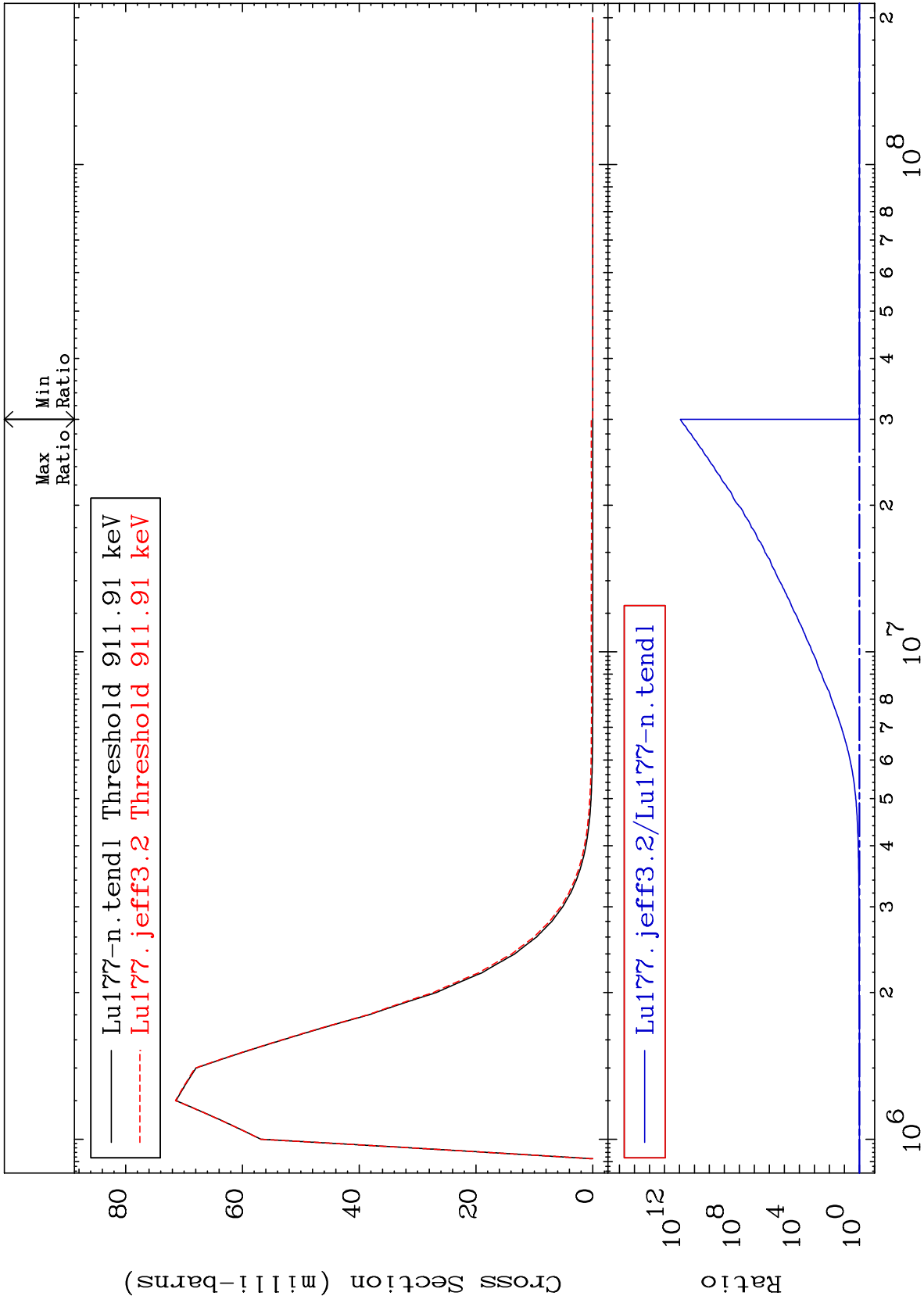
Incident Energy (eV)

71-Lu-177

MAT 7131

906.7 keV (n,n') Level  
Cross Section

71-Lu-177  
0.000 To 9999. %



44

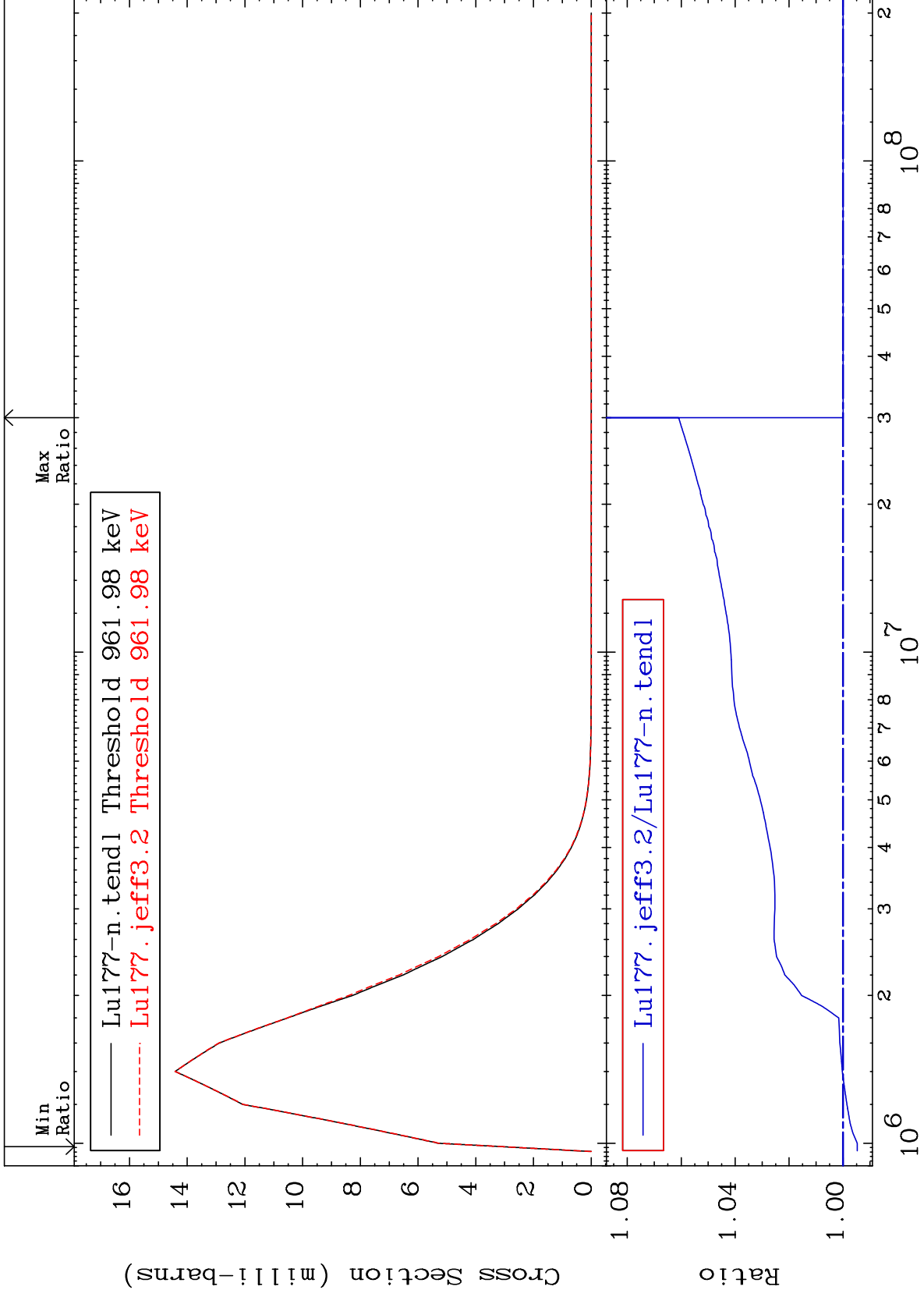
Incident Energy (eV)

71-Lu-177

MAT 7131

956.5 keV (n,n') Level  
Cross Section

71-Lu-177  
-0.527 To 6.096 %



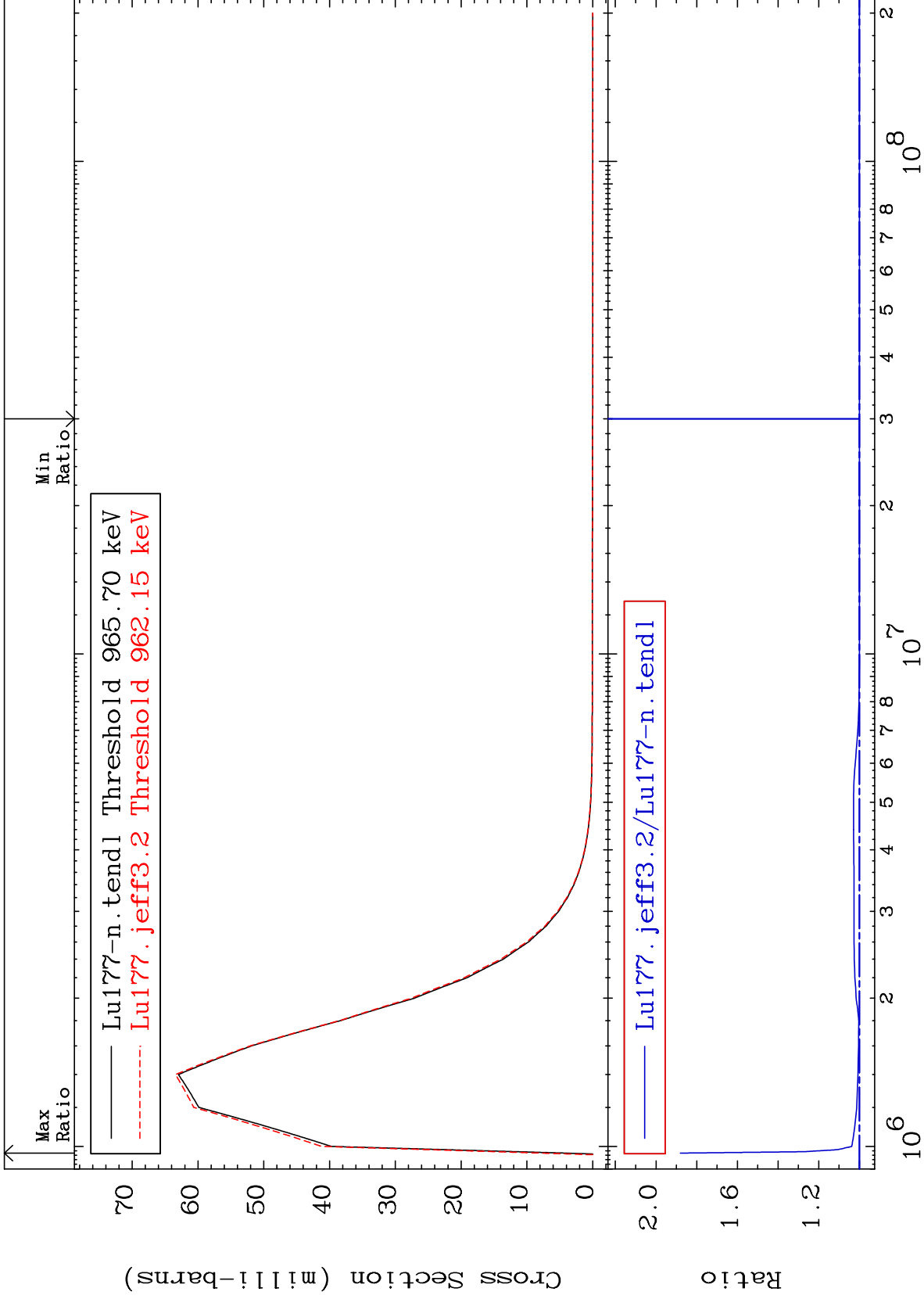
71-Lu-177

45

MAT 7131

960.2 keV (n,n') Level  
Cross Section

71-Lu-177  
0.000 To 88.04 %



46

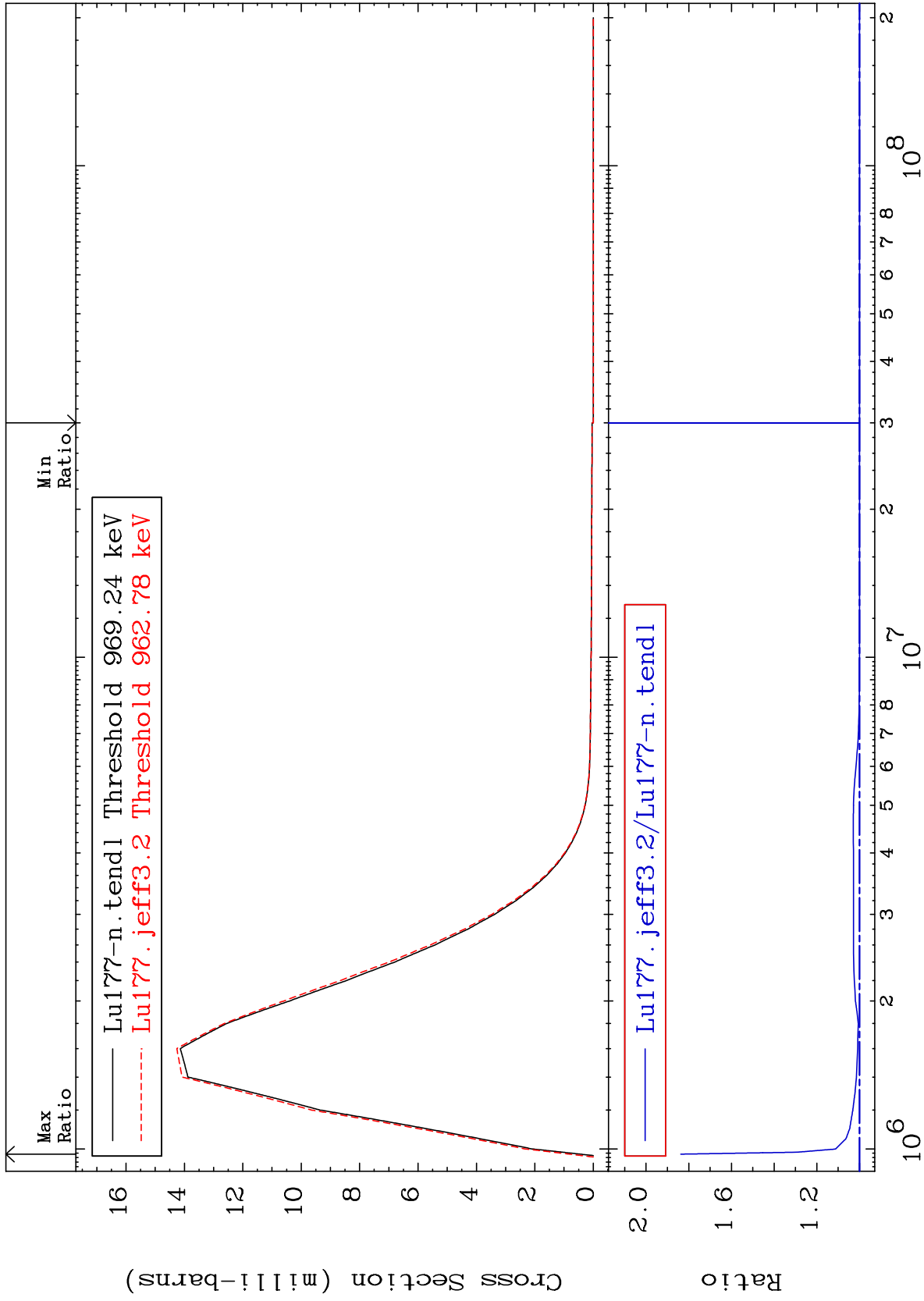
Incident Energy (eV)

71-Lu-177

MAT 7131

963.8 keV (n,n') Level  
Cross Section

71-Lu-177  
0.000 To 83.74 %



47

Incident Energy (eV)

71-Lu-177

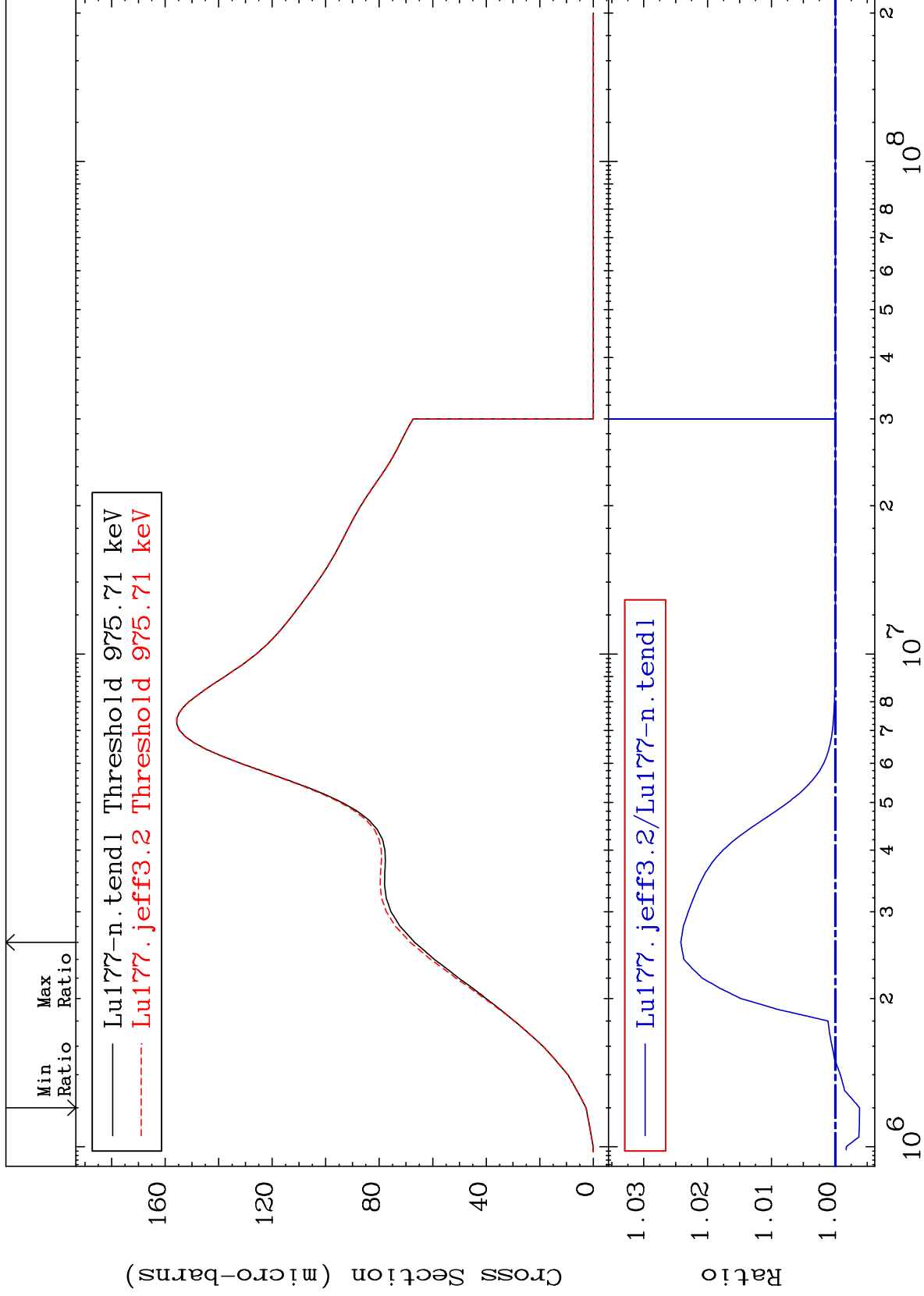
MAT 7131

970.2 keV (n,n') Level

<sup>71</sup>Lu-177

Cross Section

-0.379 To 2.420 %



Incident Energy (eV)

<sup>71</sup>Lu-177

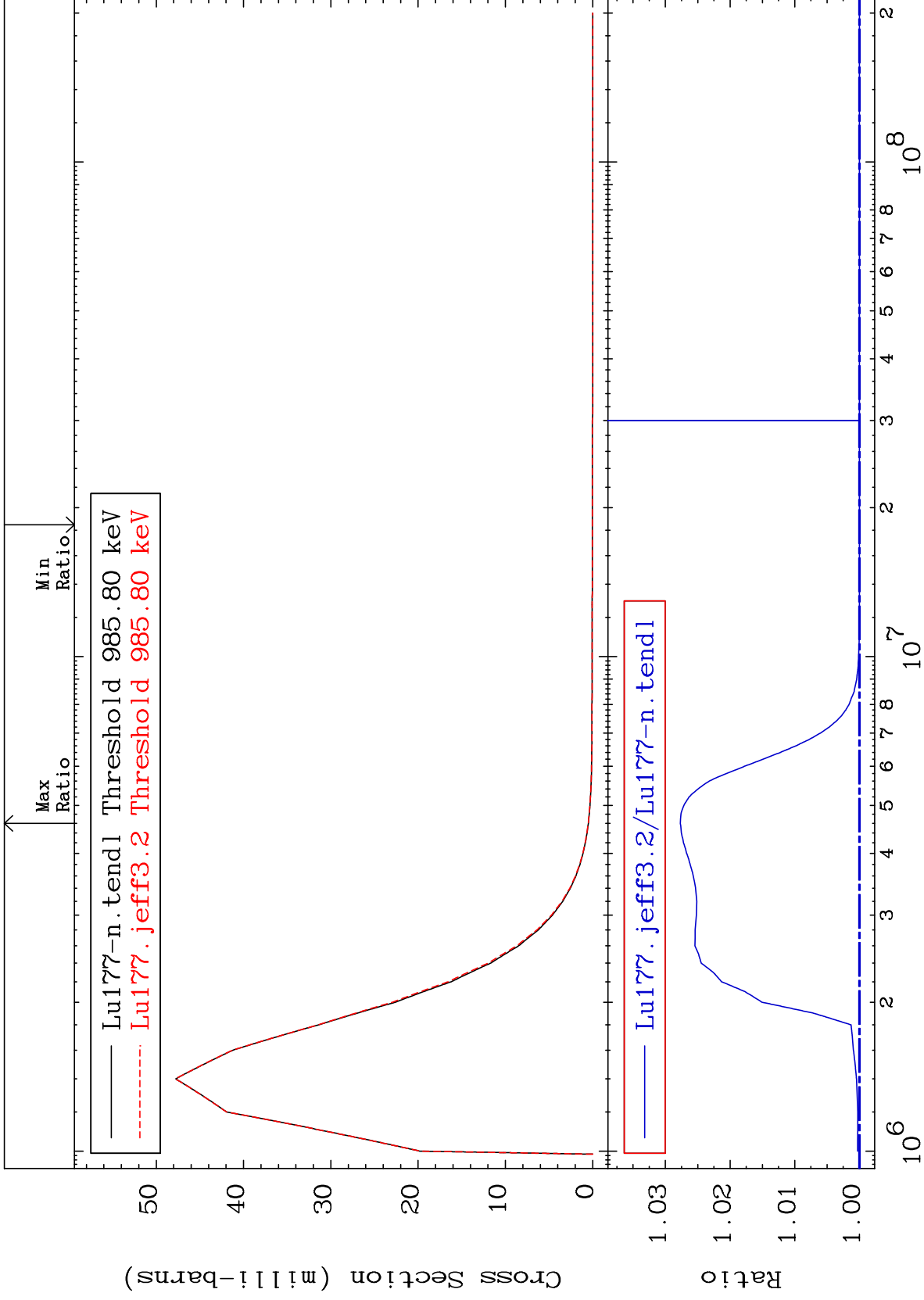
48



MAT 7131

980.2 keV (n,n') Level  
Cross Section

71-Lu-177  
0.000 To 2.769 %



Incident Energy (eV)

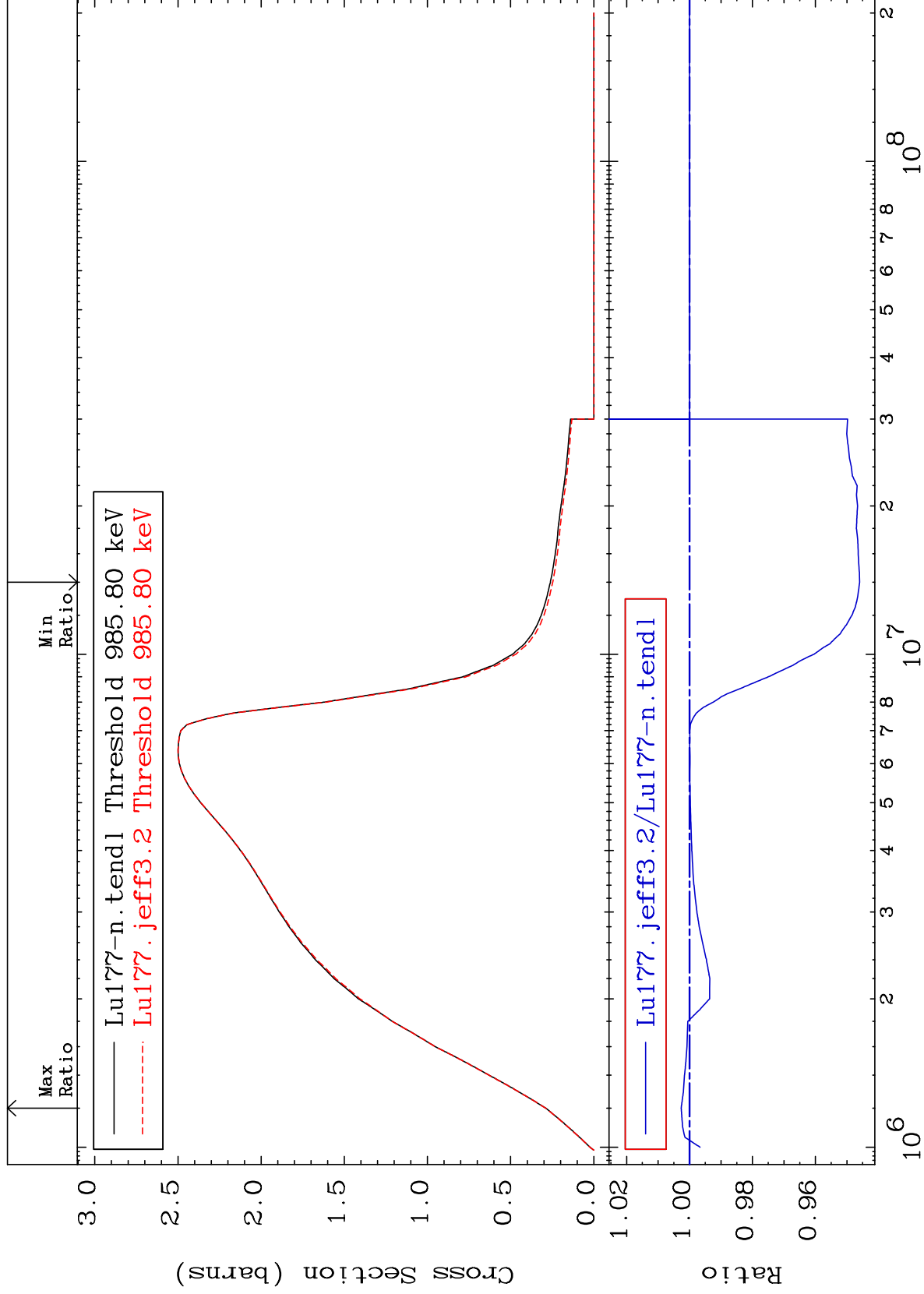
71-Lu-177

49

MAT 7131

(n, n') Continuum  
Cross Section

<sup>71</sup>Lu-<sup>177</sup>  
-5.405 To 0.266 %



Incident Energy (eV)

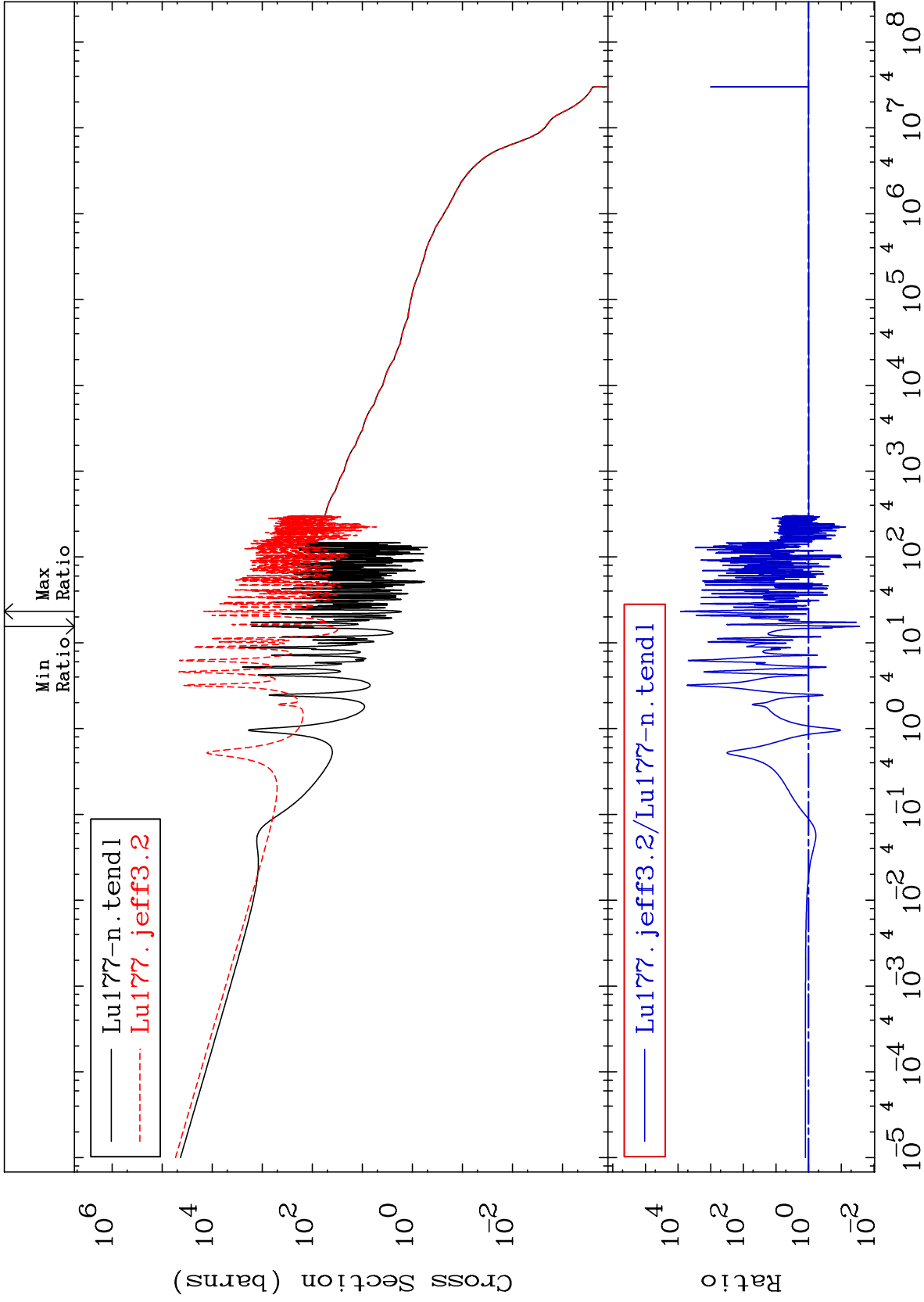
<sup>71</sup>Lu-<sup>177</sup>

50

MAT 7131

(n,  $\gamma$ )  
Cross Section

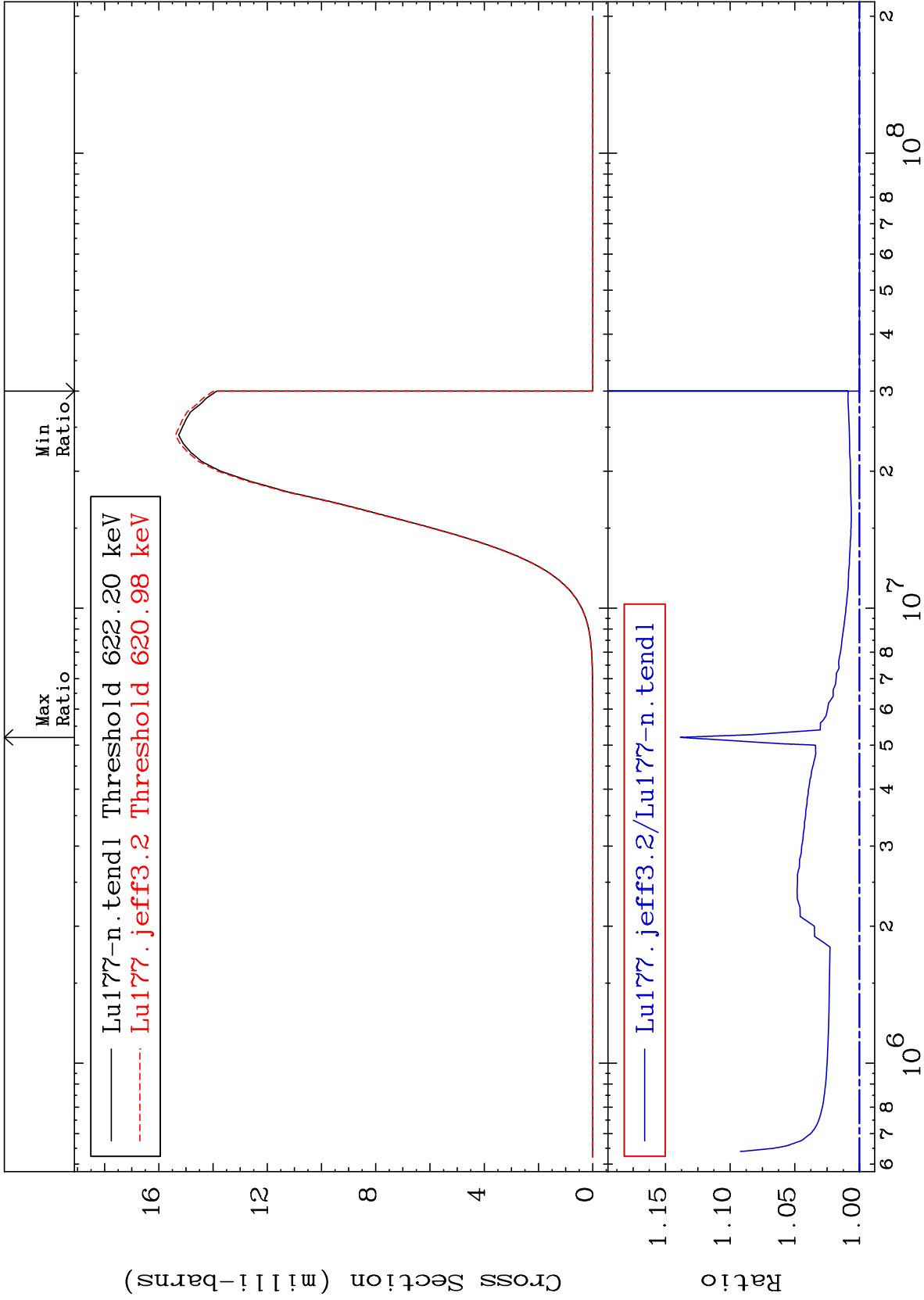
71-Lu-177  
-97.22 To 9999. %



MAT 7131

(n,p)  
Cross Section

71-Lu-177  
0.000 To 13.85 %



52

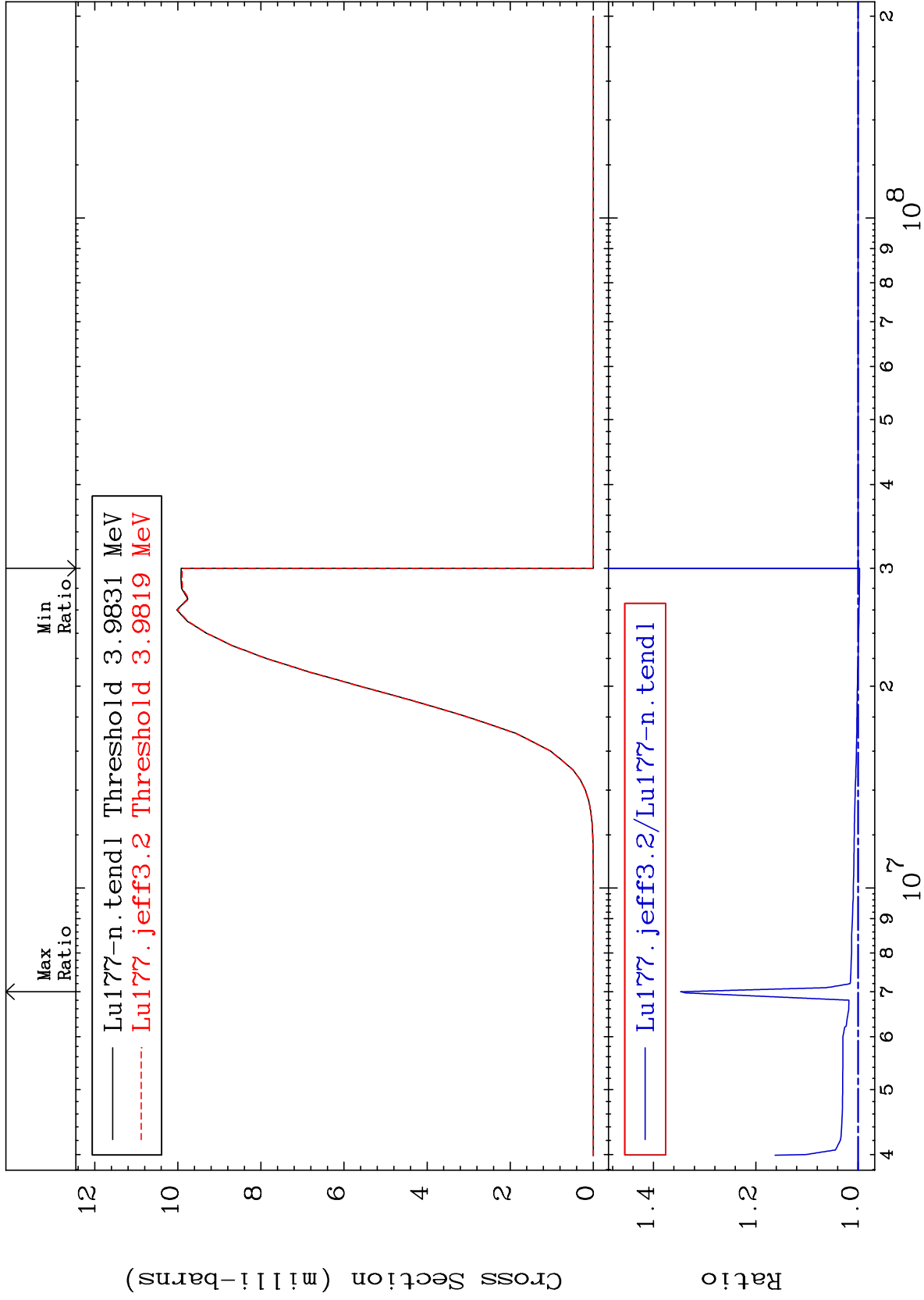
Incident Energy (eV)

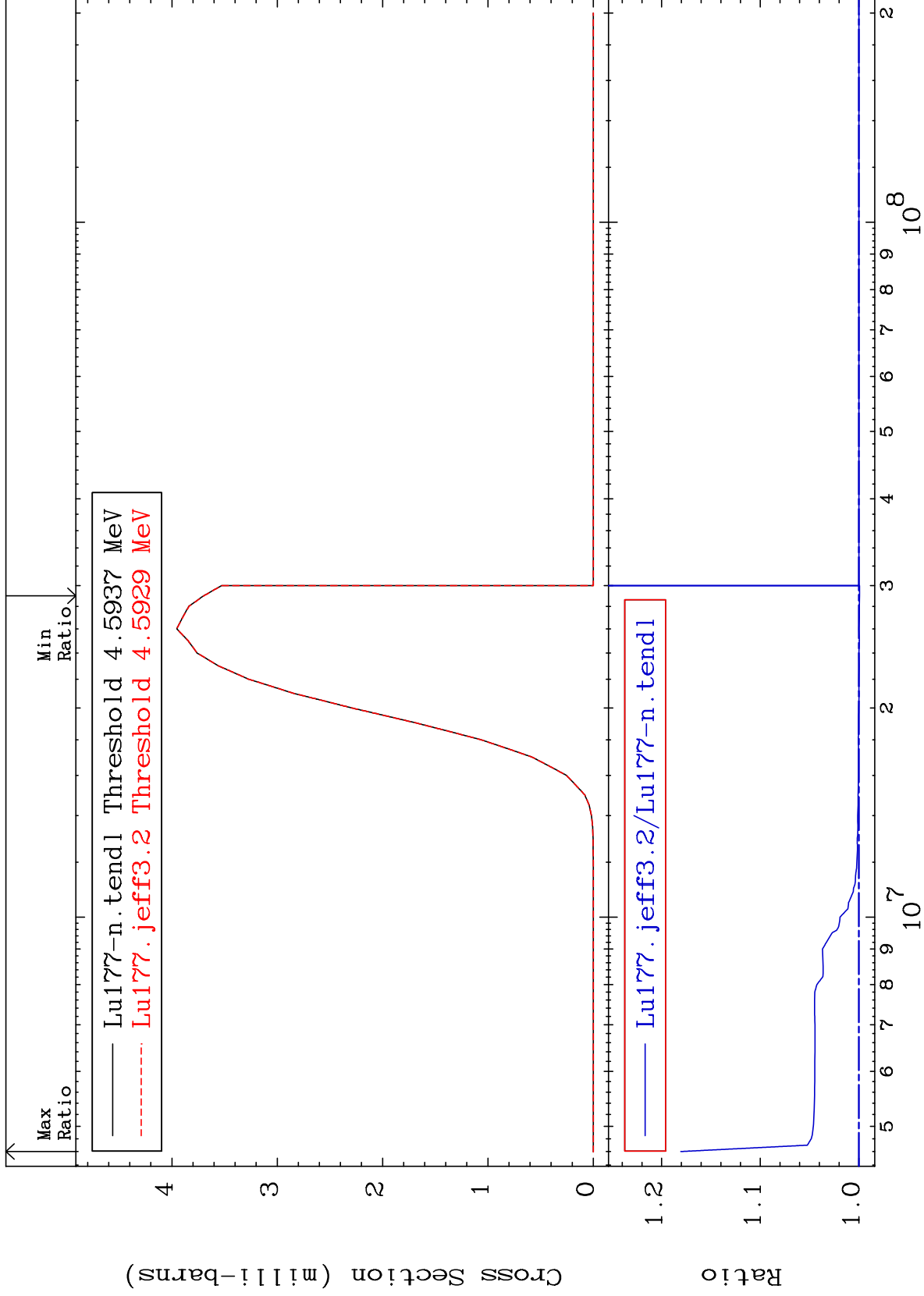
71-Lu-177

MAT 7131

(n, d)  
Cross Section

<sup>71</sup>-Lu-177  
-0.282 To 34.67 %





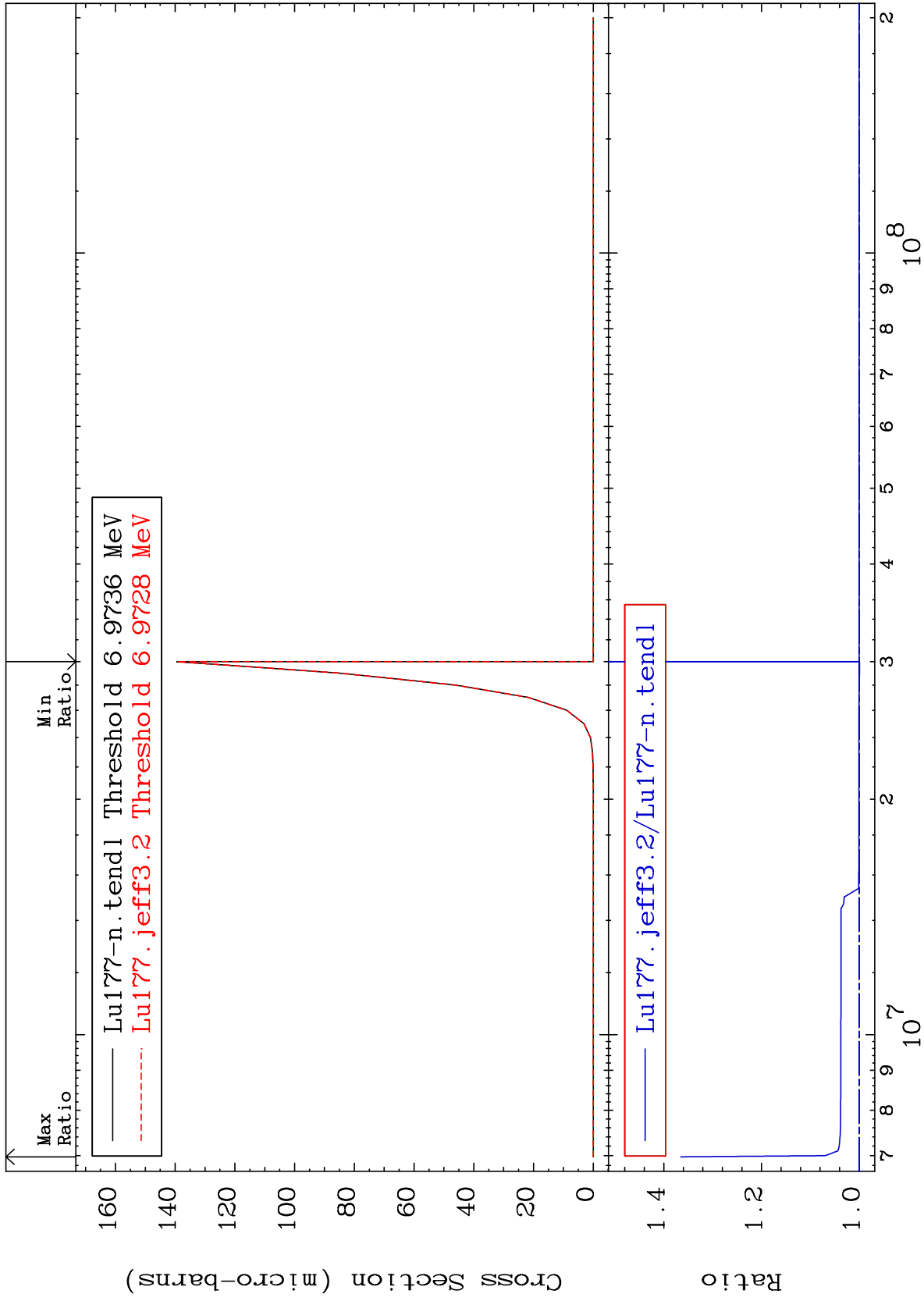
MAT 7131

(n, He-3)

<sup>71</sup>Lu-177

Cross Section

-0.086 To 36.53 %



55

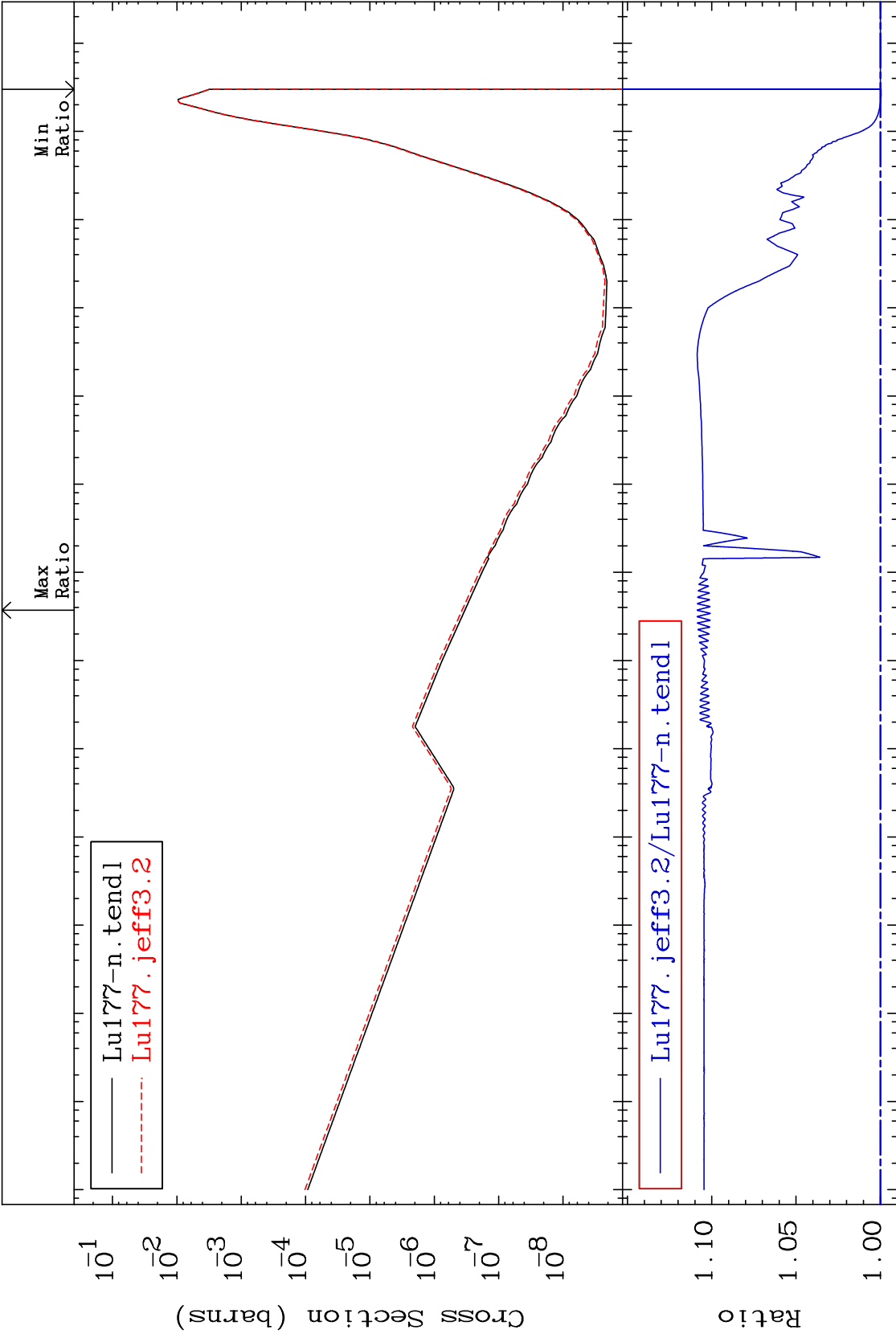
Incident Energy (eV)

<sup>71</sup>Lu-177

MAT 7131

(n,  $\alpha$ )  
Cross Section

71-Lu-177  
-0.042 To 10.88 %





MAT 7131

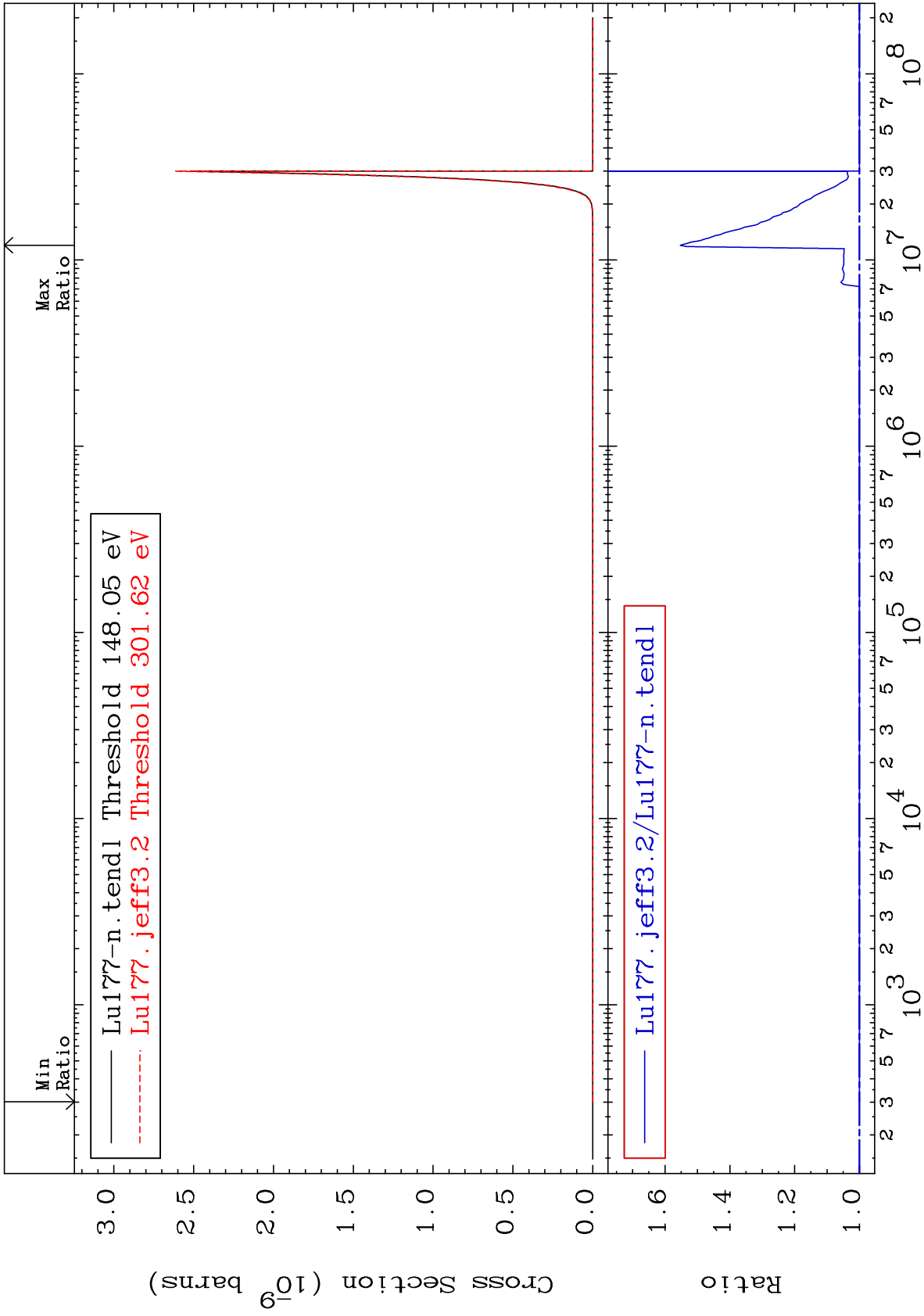
(n,2α)

71-Lu-177

Cross Section

0.000

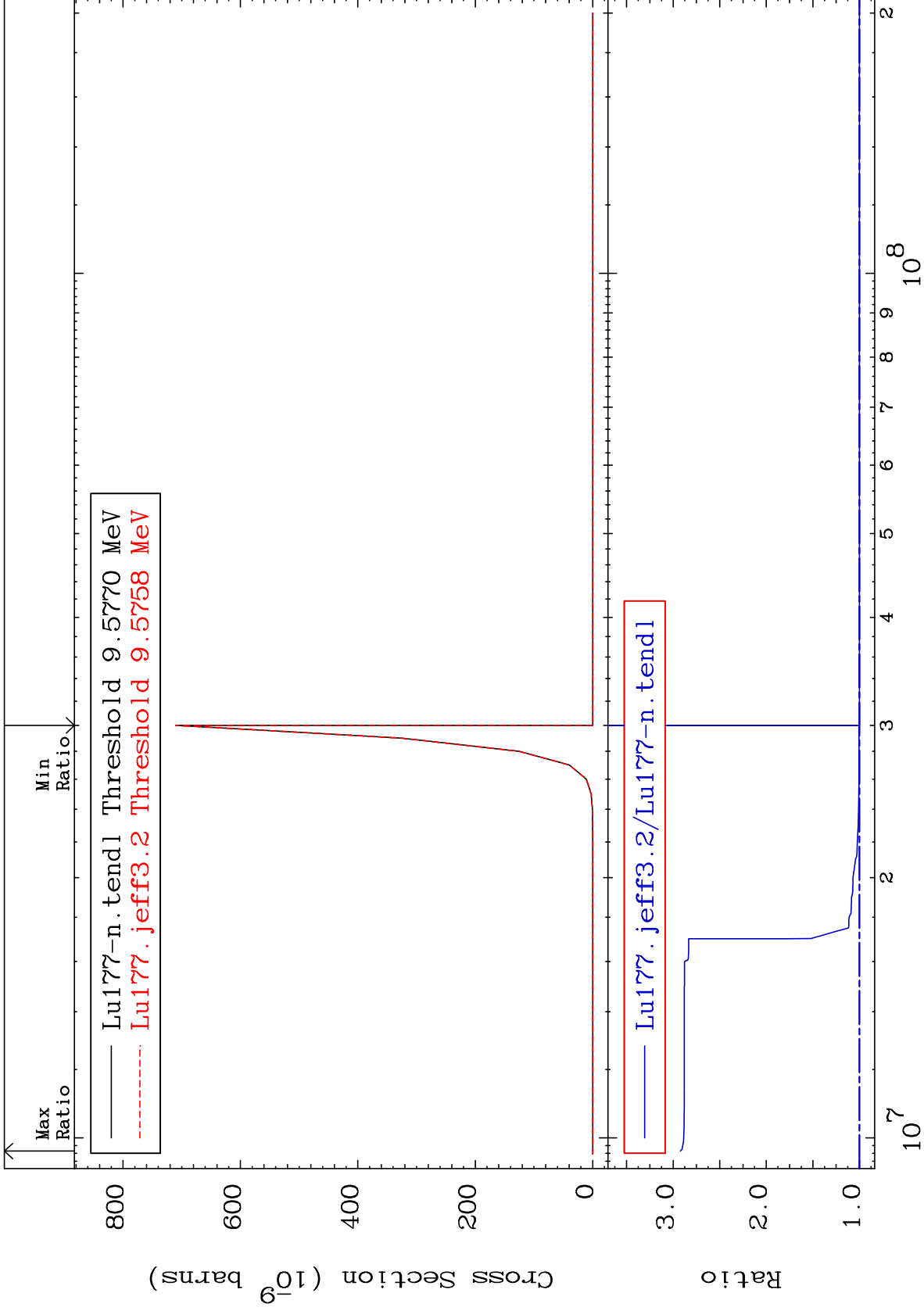
To 55.27 %



MAT 7131

(n,2p)  
Cross Section

<sup>71</sup>Lu-<sup>177</sup>Lu  
To 192.3 %  
0.000



58

Incident Energy (eV)

<sup>71</sup>Lu-<sup>177</sup>Lu

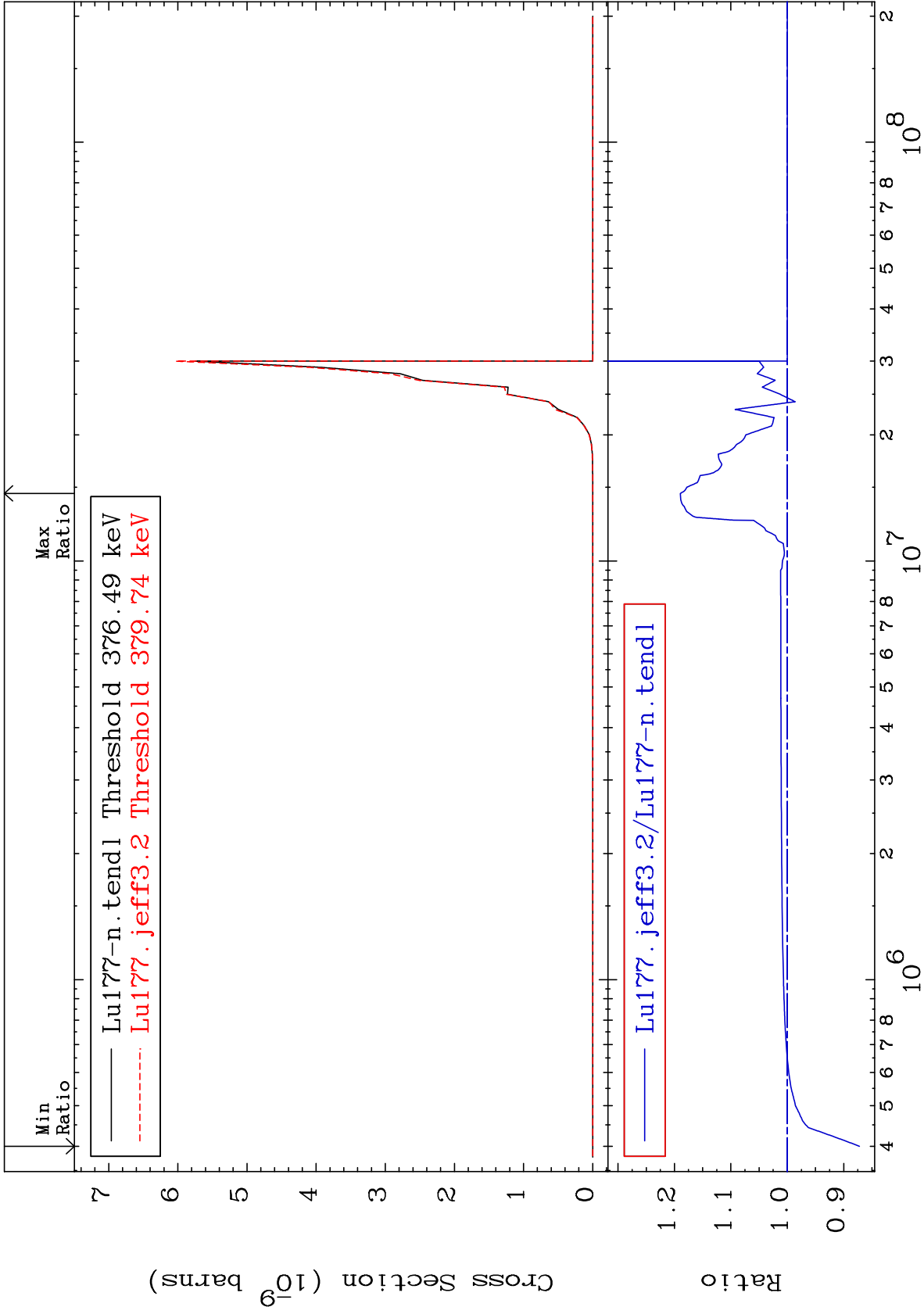
MAT 7131

(n, p)  $\alpha$

<sup>71</sup>Lu-177

Cross Section

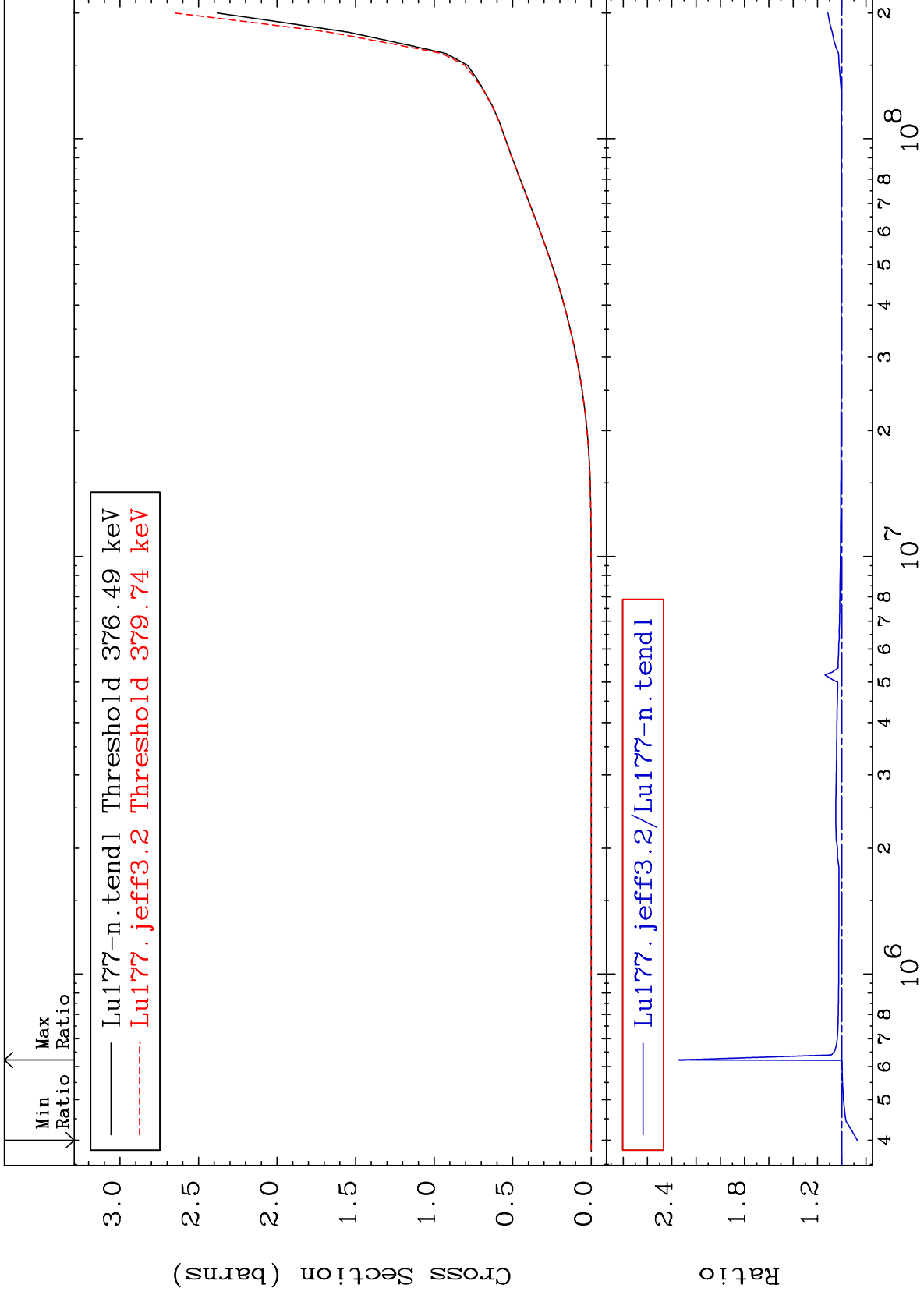
-12.79 To 18.95 %



MAT 7131

Hydrogen Production  
Cross Section

<sup>71</sup>Lu-Lu-177  
-12.79 To 134.3 %



60

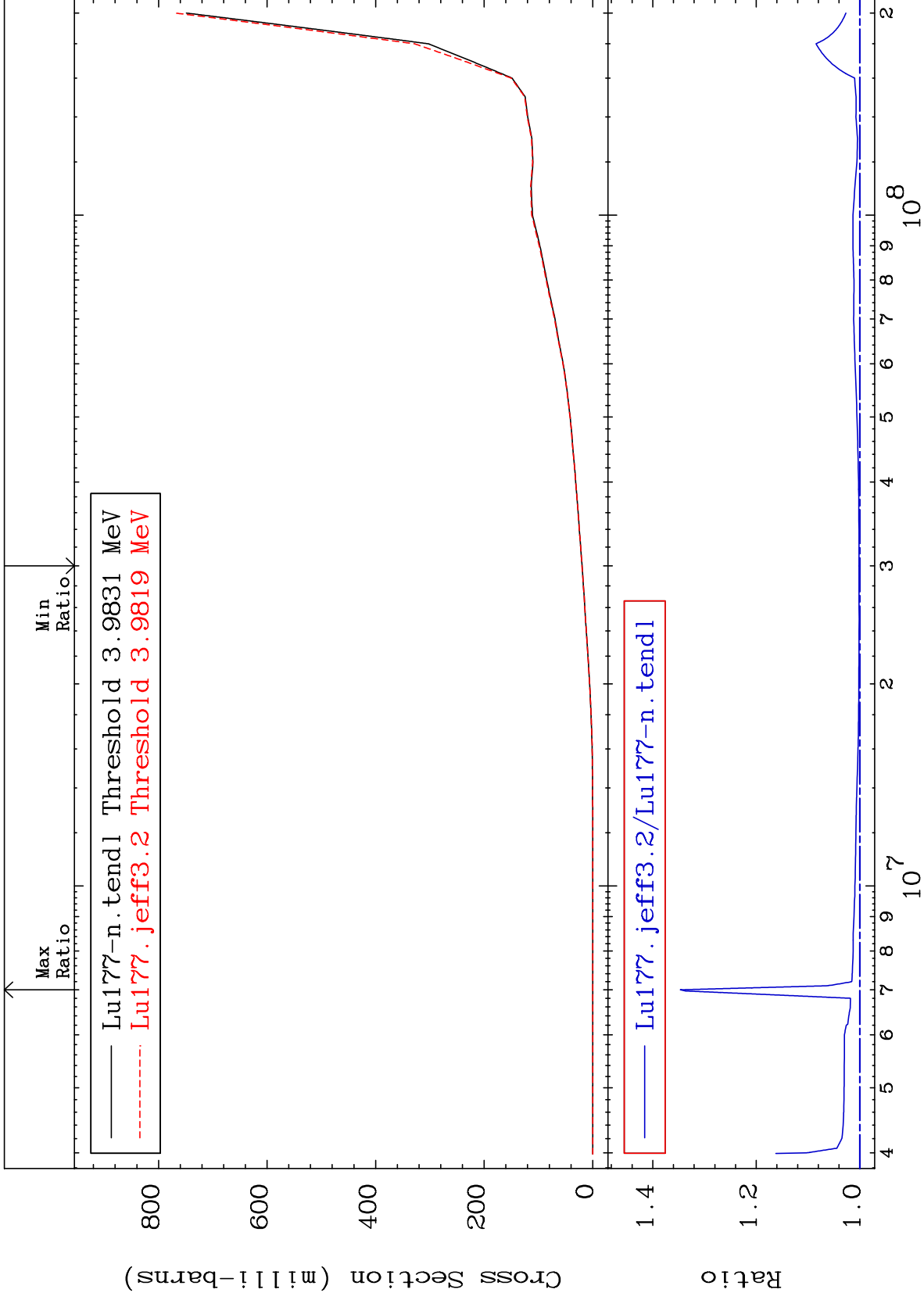
Incident Energy (eV)

<sup>71</sup>Lu-Lu-177

MAT 7131

Deuterium Production  
Cross Section

<sup>71</sup>Lu-<sup>177</sup>  
To 34.67 %



61

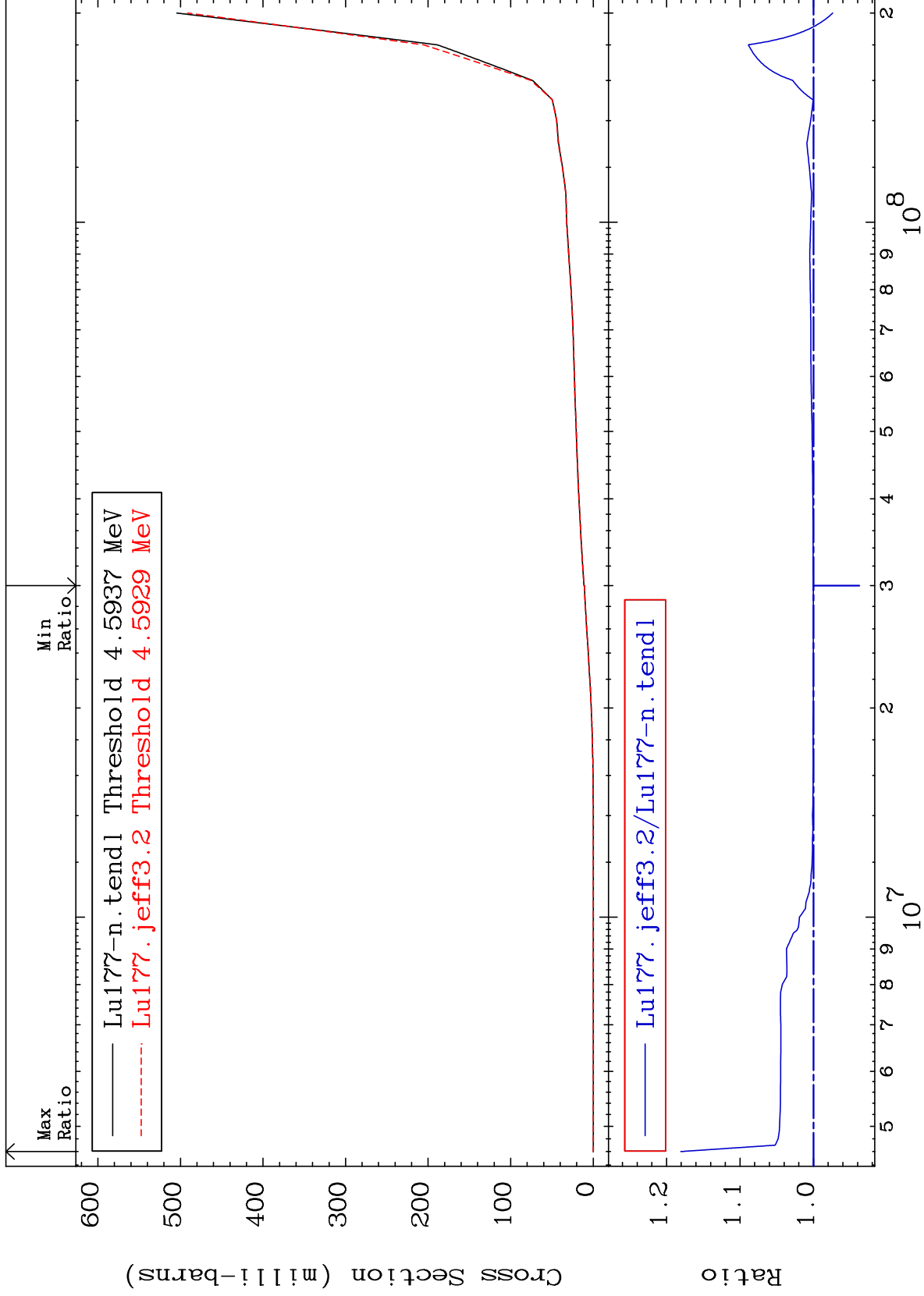
Incident Energy (eV)

<sup>71</sup>Lu-<sup>177</sup>

MAT 7131

Tritium Production  
Cross Section

<sup>71</sup>Lu-<sup>177</sup>  
-6.264 To 18.06 %



62

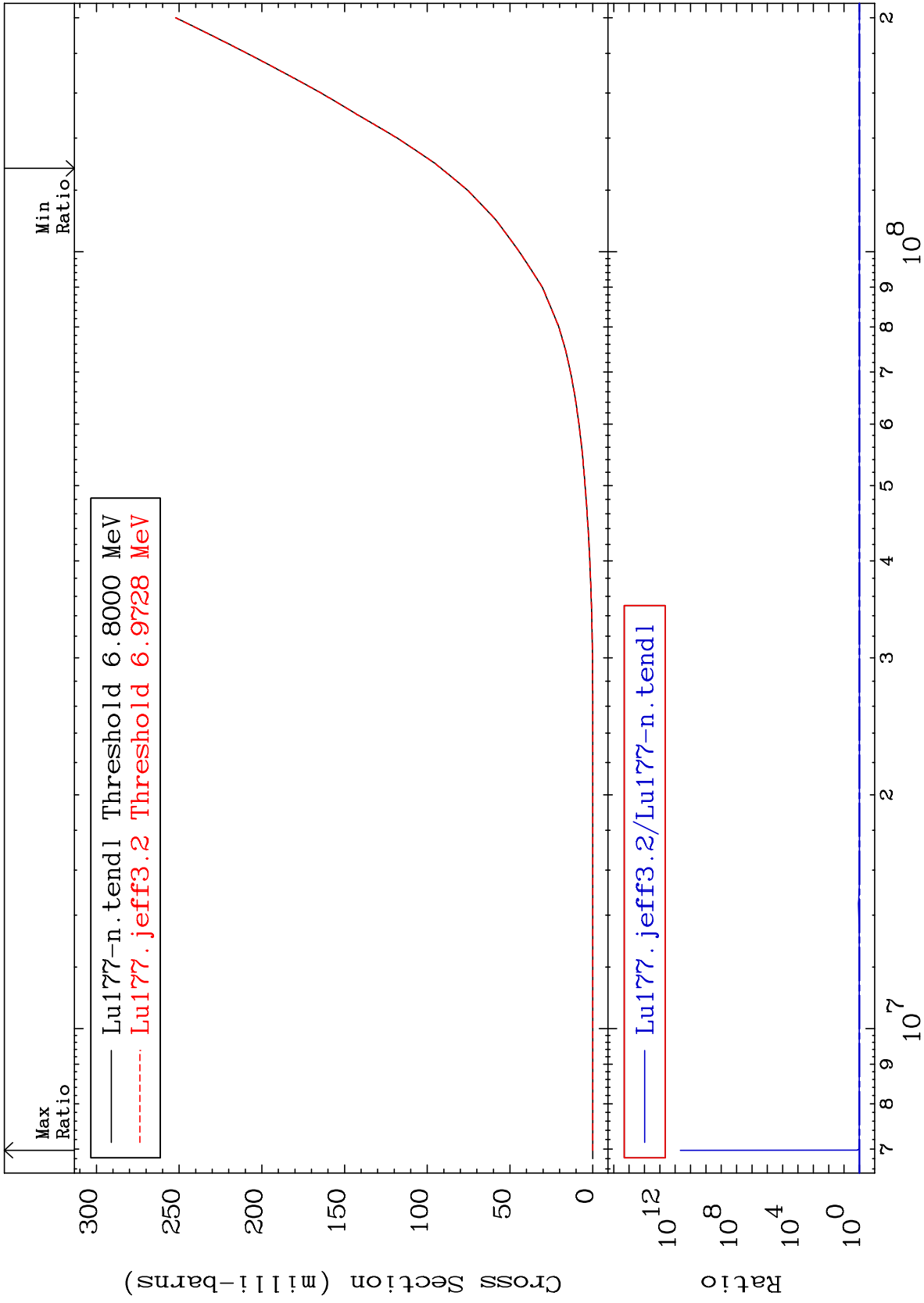
Incident Energy (eV)

<sup>71</sup>Lu-<sup>177</sup>

MAT 7131

He-3 Production  
Cross Section

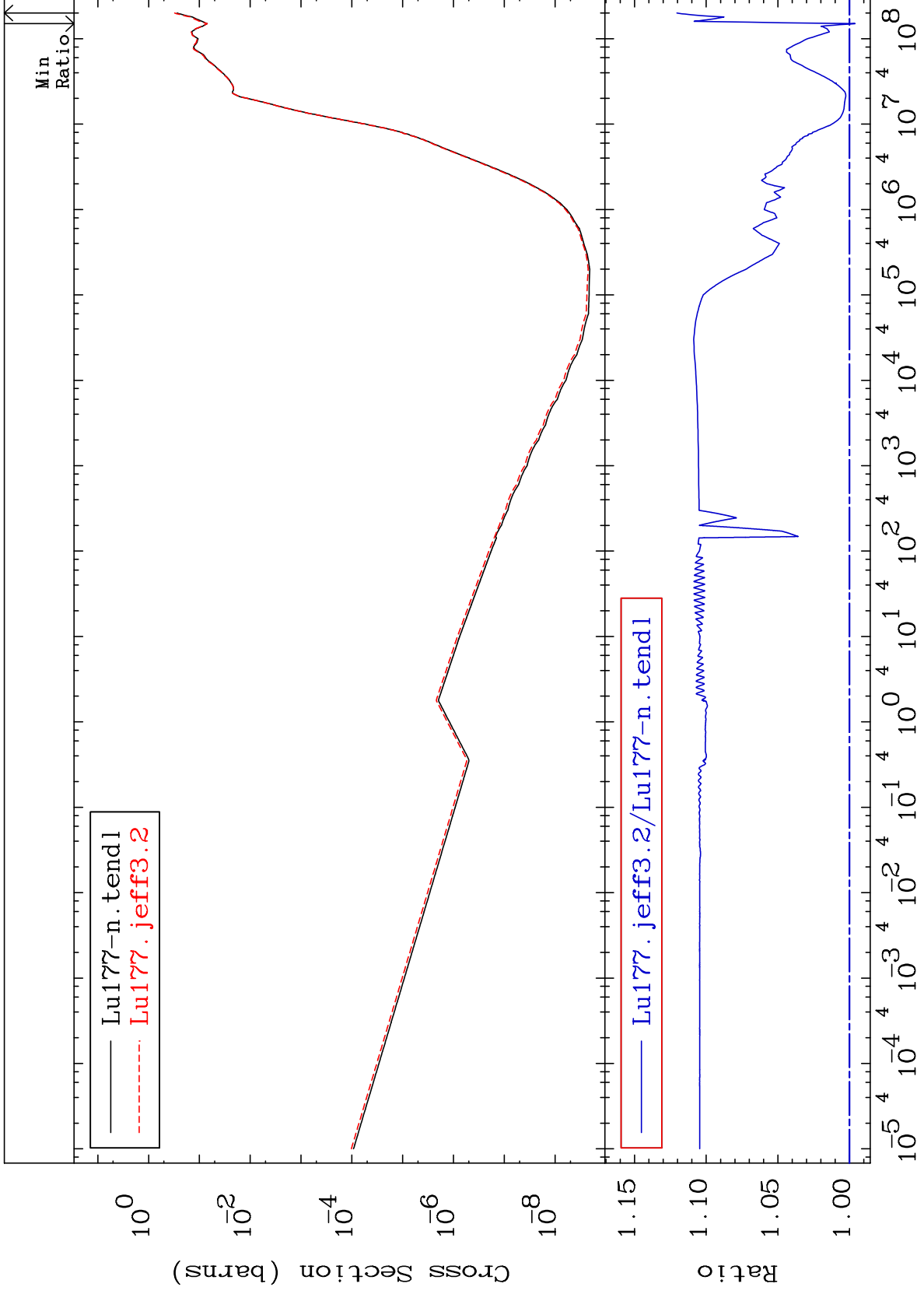
71-Lu-177  
To 9999. %



MAT 7131

He-4 Production  
Cross Section

71-Lu-177  
-0.390 To 12.05 %



64

Incident Energy (eV)

71-Lu-177



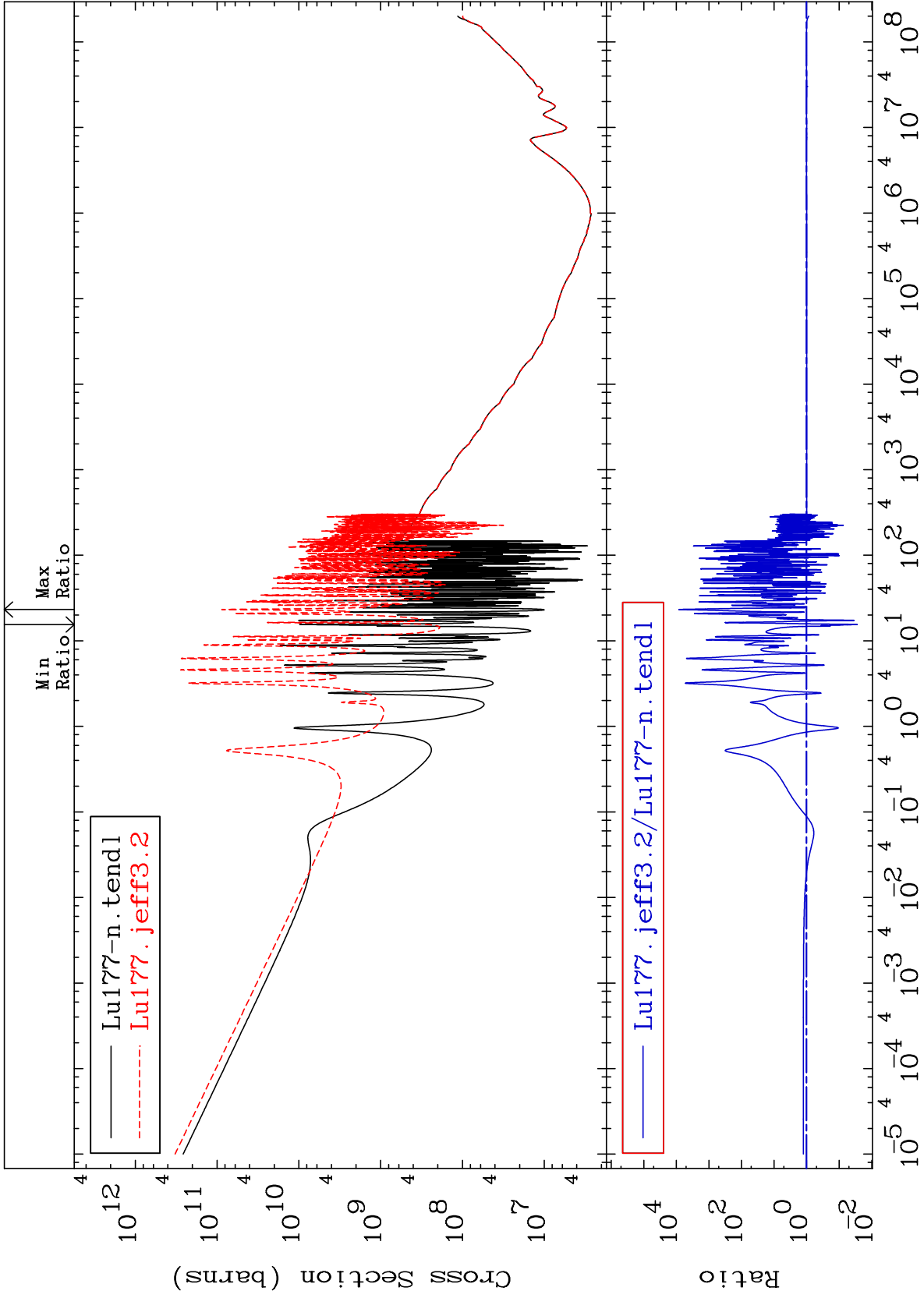
MAT 7131

Kerma total (eV-barns)

71-Lu-177

Cross Section

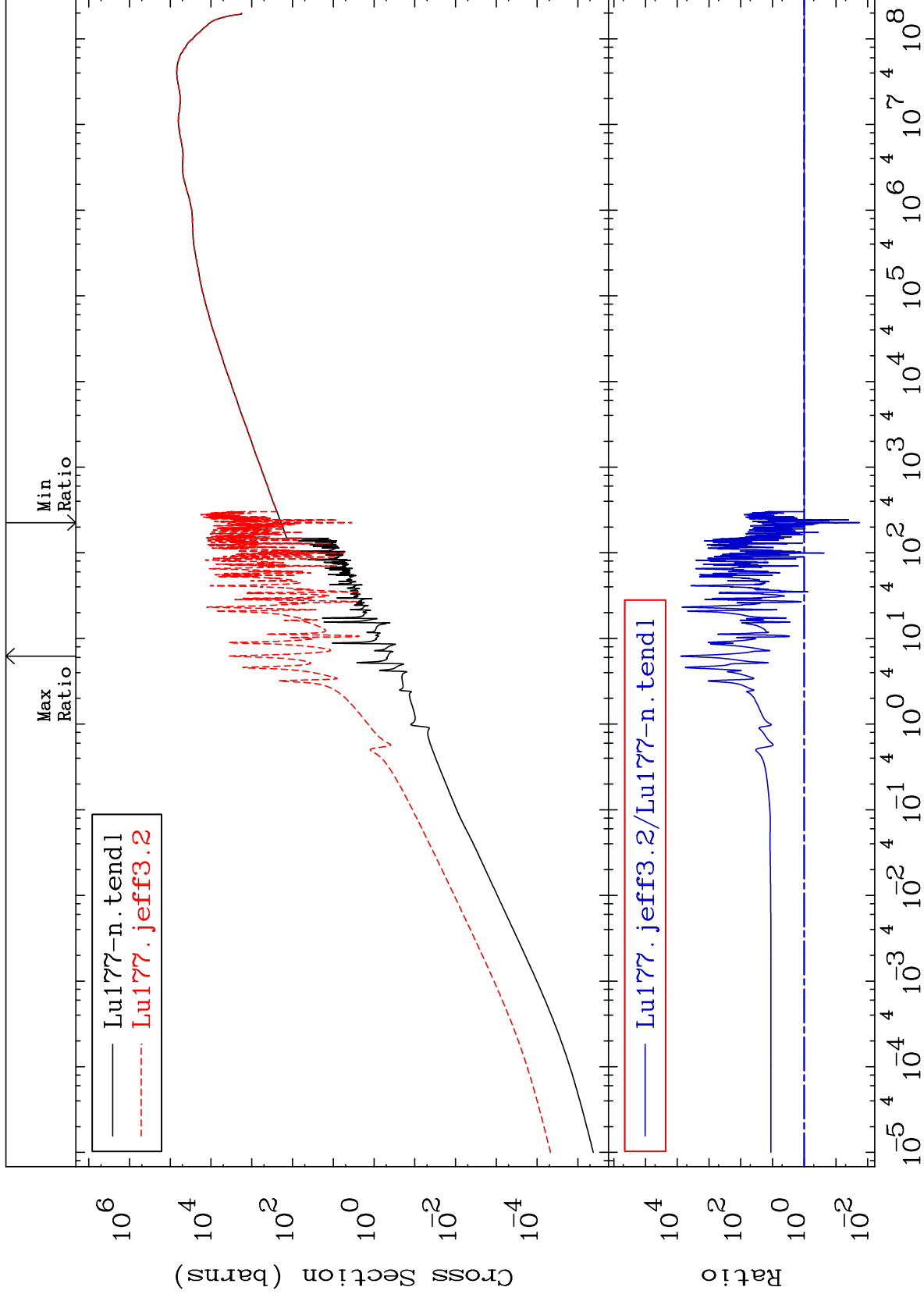
-97.22 To 9999. %



MAT 7131

Kerma elastic  
Cross Section

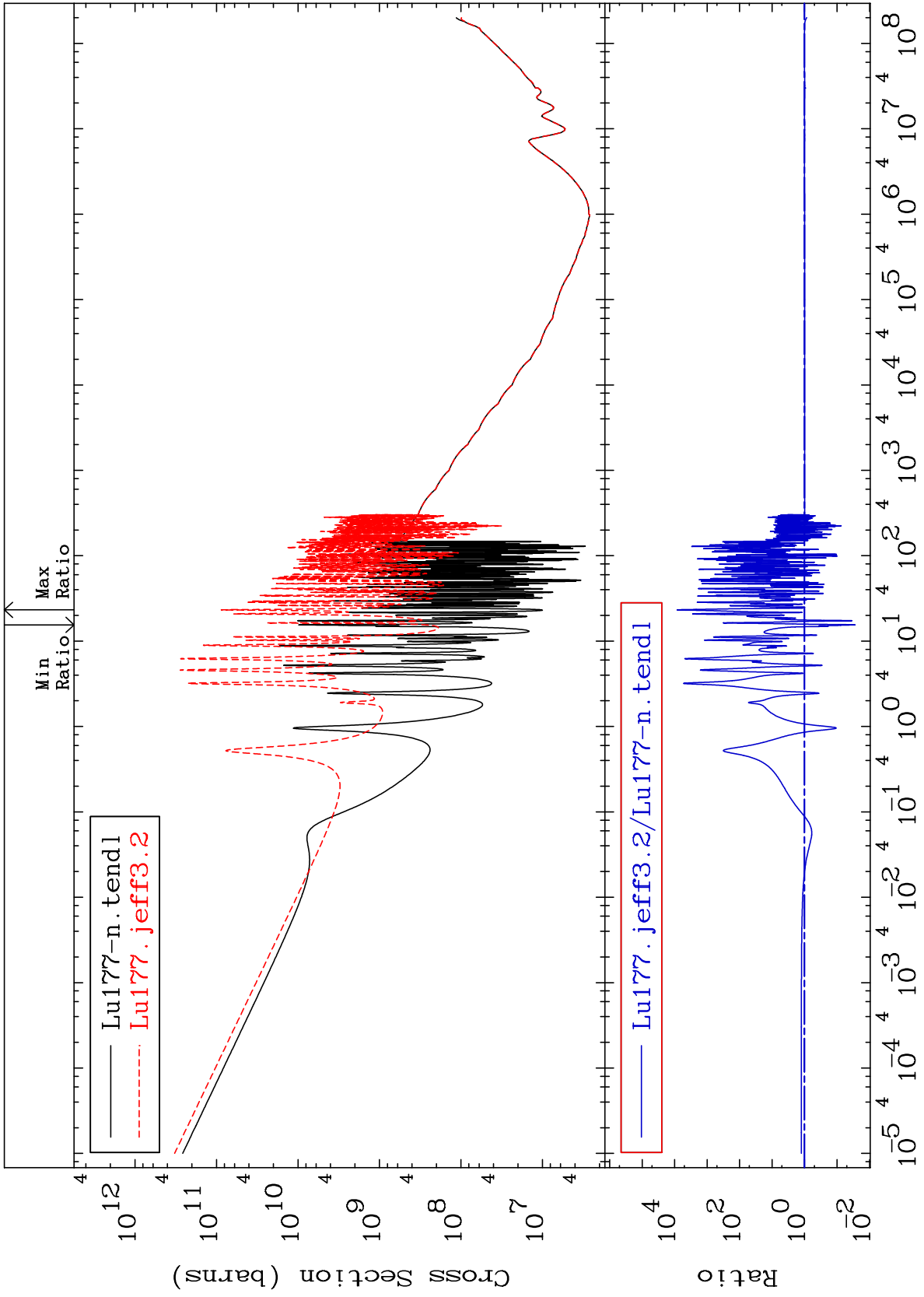
71-Lu-177  
-98.19 To 9999. %



MAT 7131

Kerma non-elastic (all but mt2)  
Cross Section

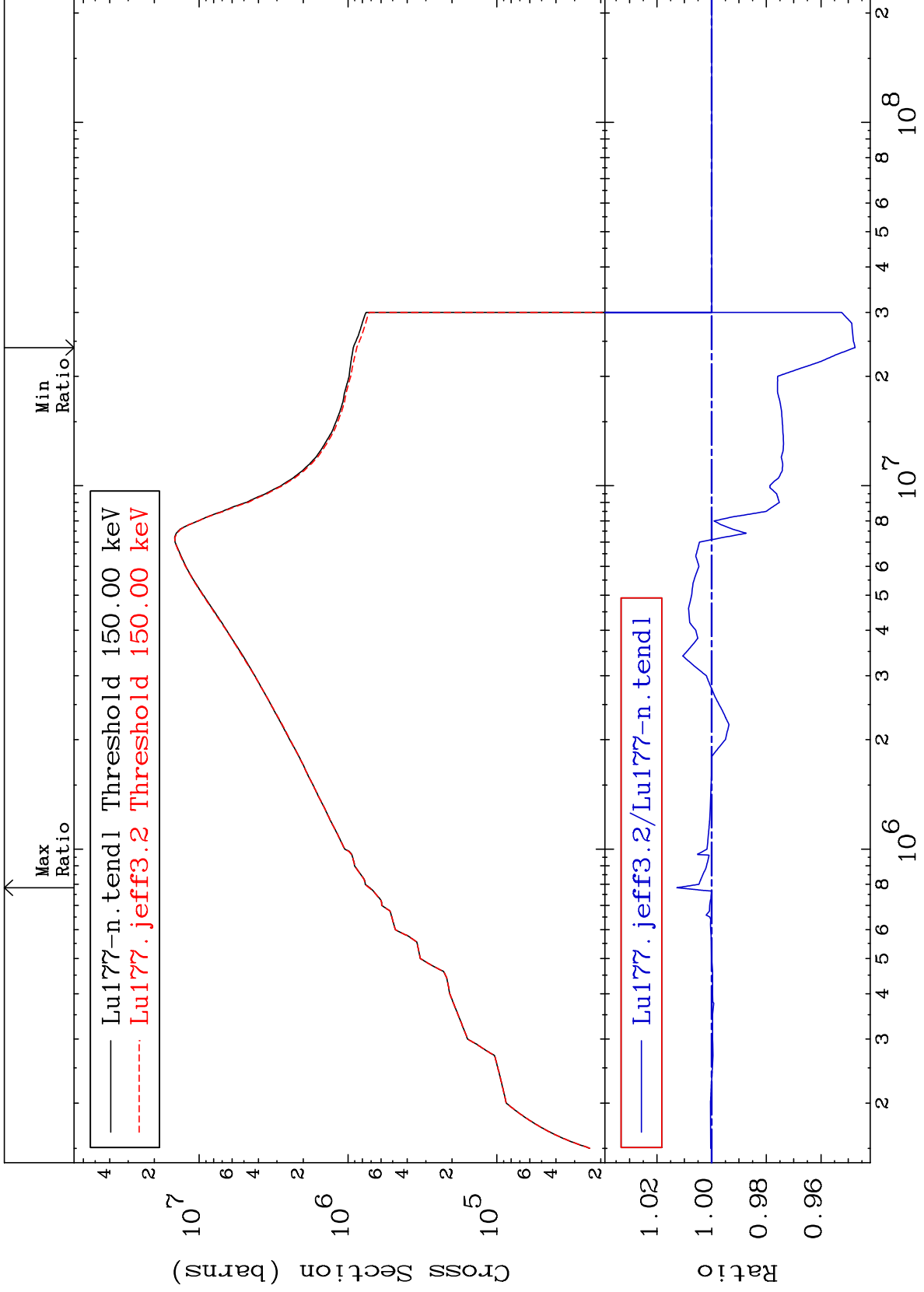
71-Lu-177  
-97.22 To 9999. %



MAT 7131

Kerma inelastic (mt51-91)  
Cross Section

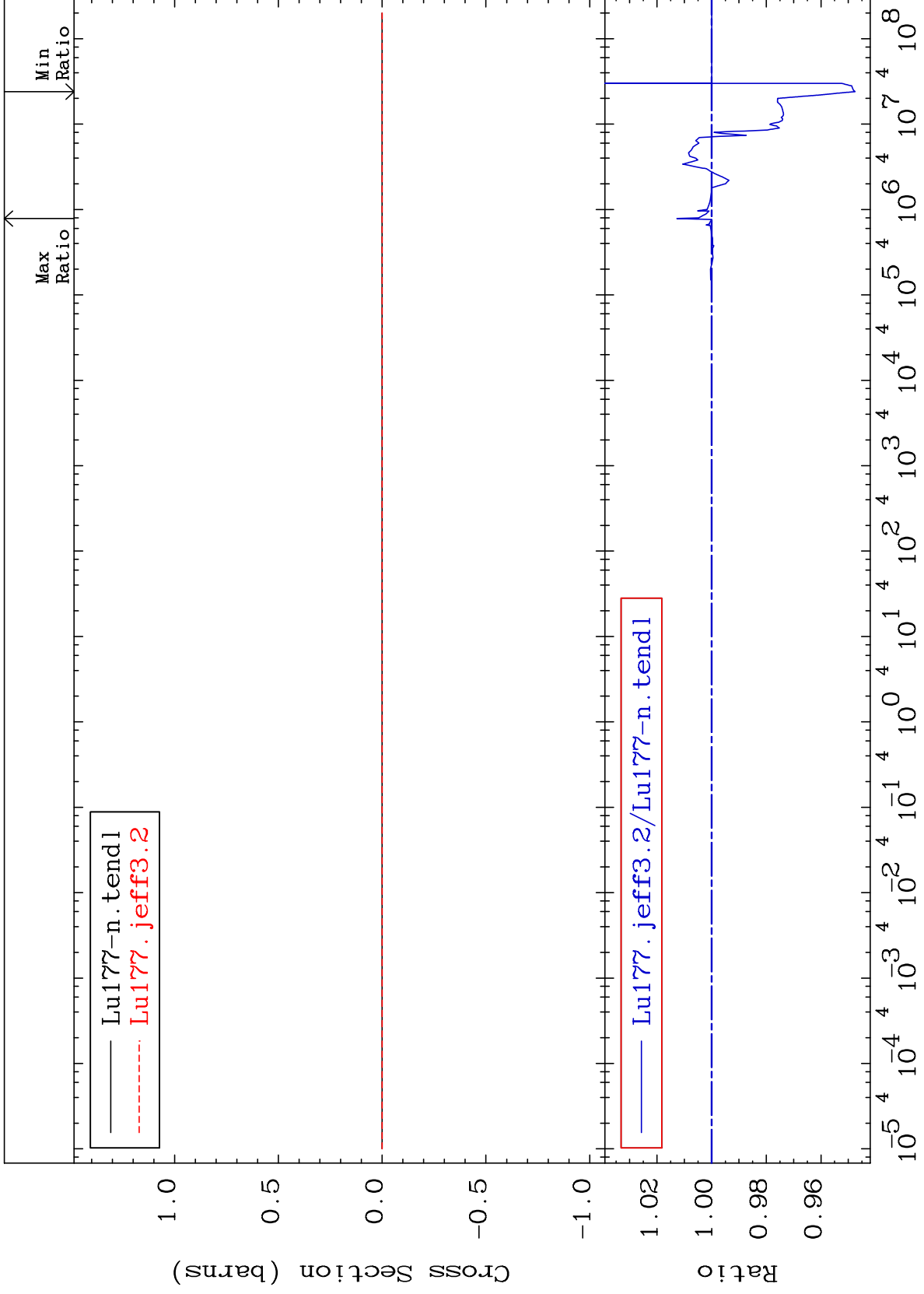
71-Lu-177  
-5.249 To 1.271 %



MAT 7131

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

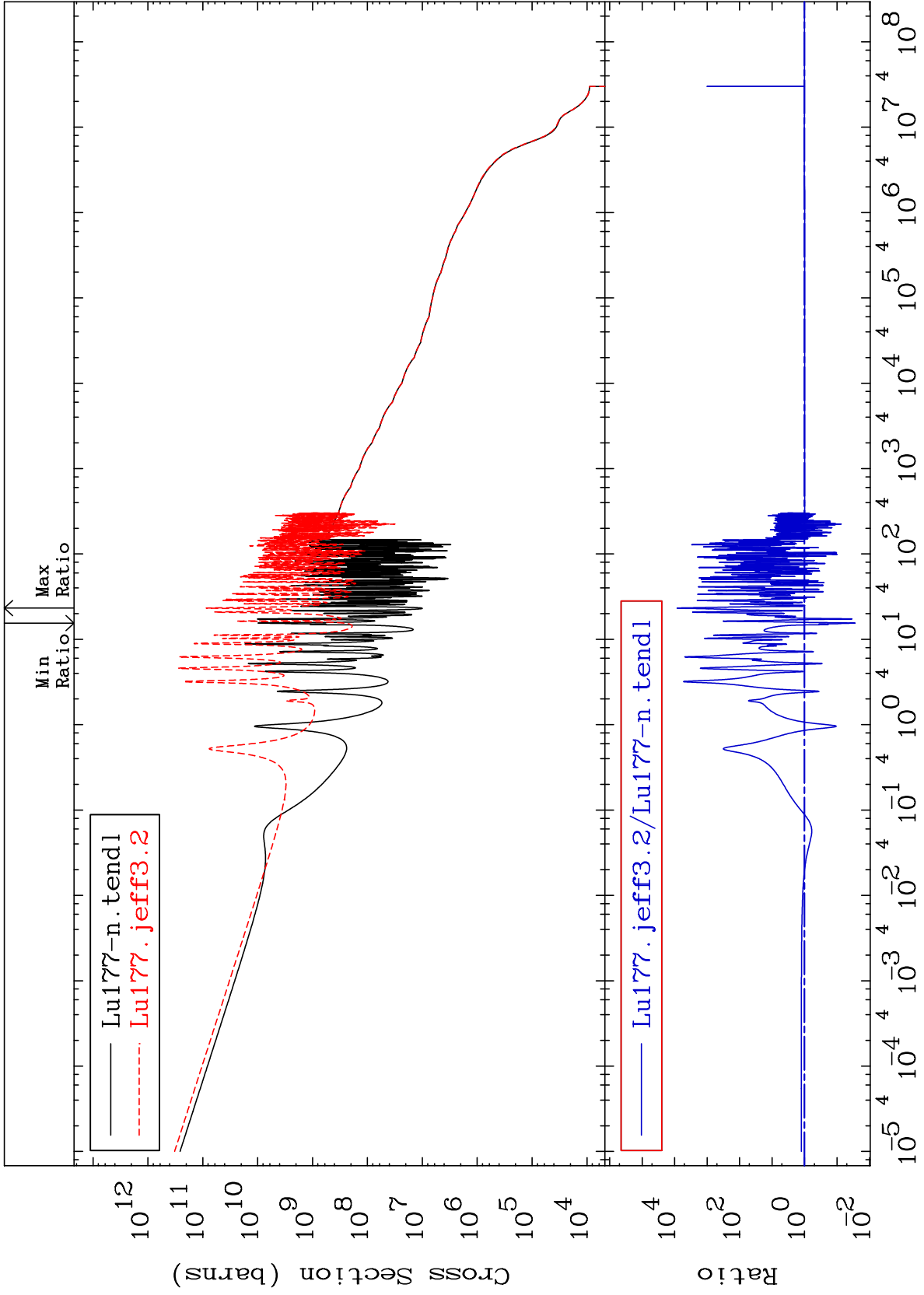
71-Lu-177  
-5.249 To 1.271 %



MAT 7131

Kerma capture (mt102)  
Cross Section

71-Lu-177  
-97.22 To 9999. %



70

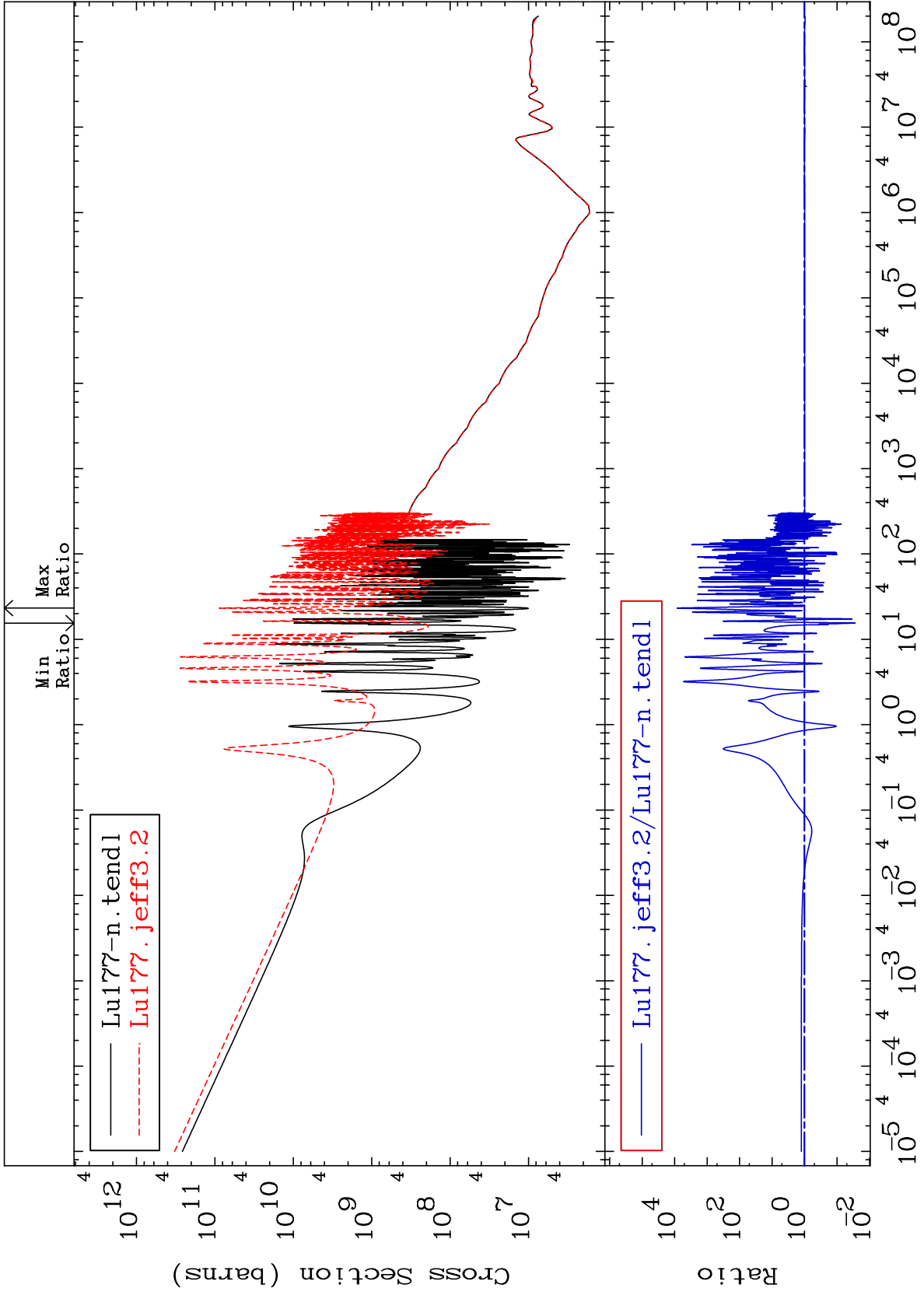
Incident Energy (eV)

71-Lu-177

MAT 7131

Total photon (eV-barns)  
Cross Section

71-Lu-177  
-97.22 To 9999. %



71

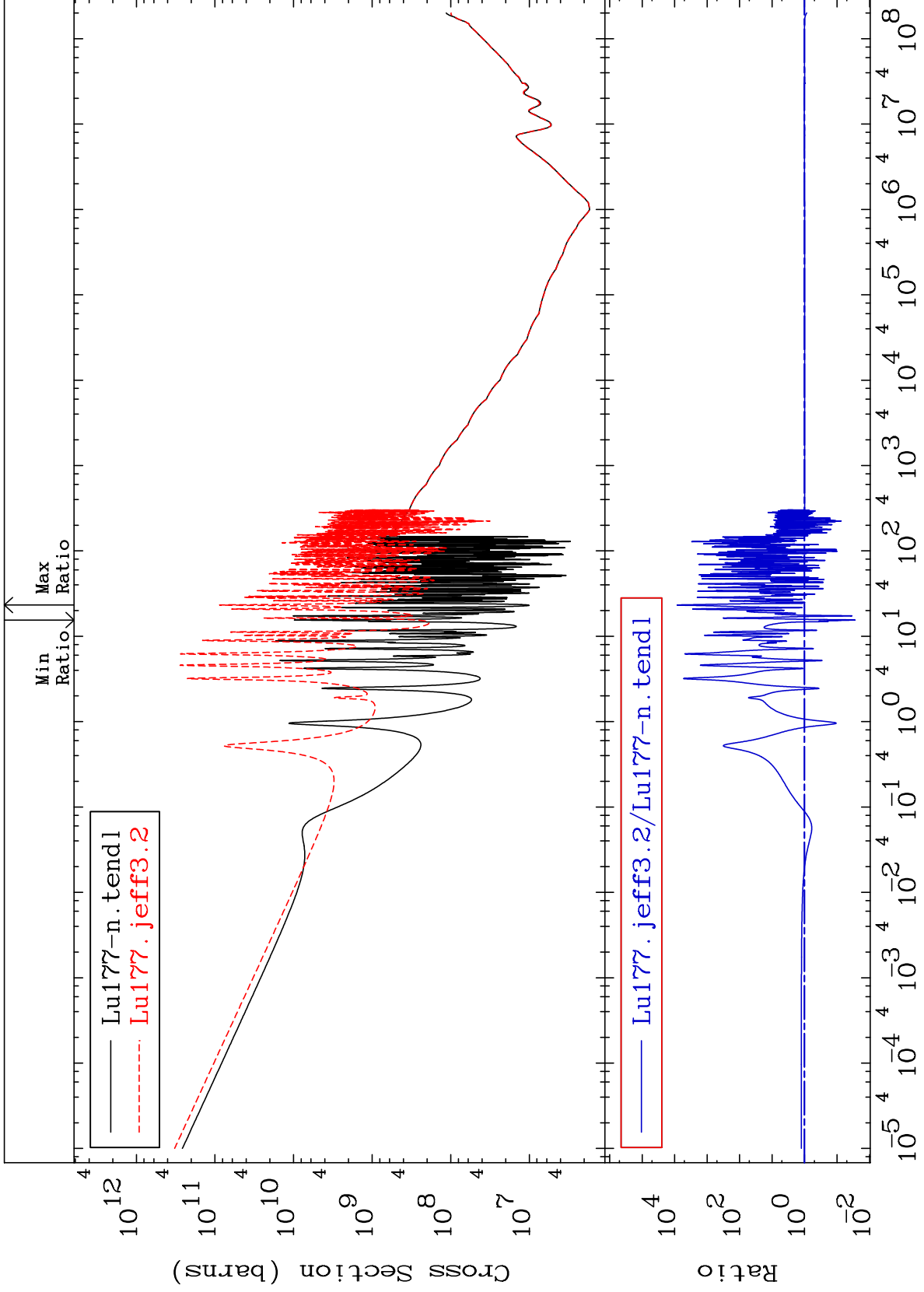
Incident Energy (eV)

71-Lu-177

MAT 7131

Total kinematic kerma (high limit)  
Cross Section

71-Lu-177  
-97.22 To 9999. %



72

Incident Energy (eV)

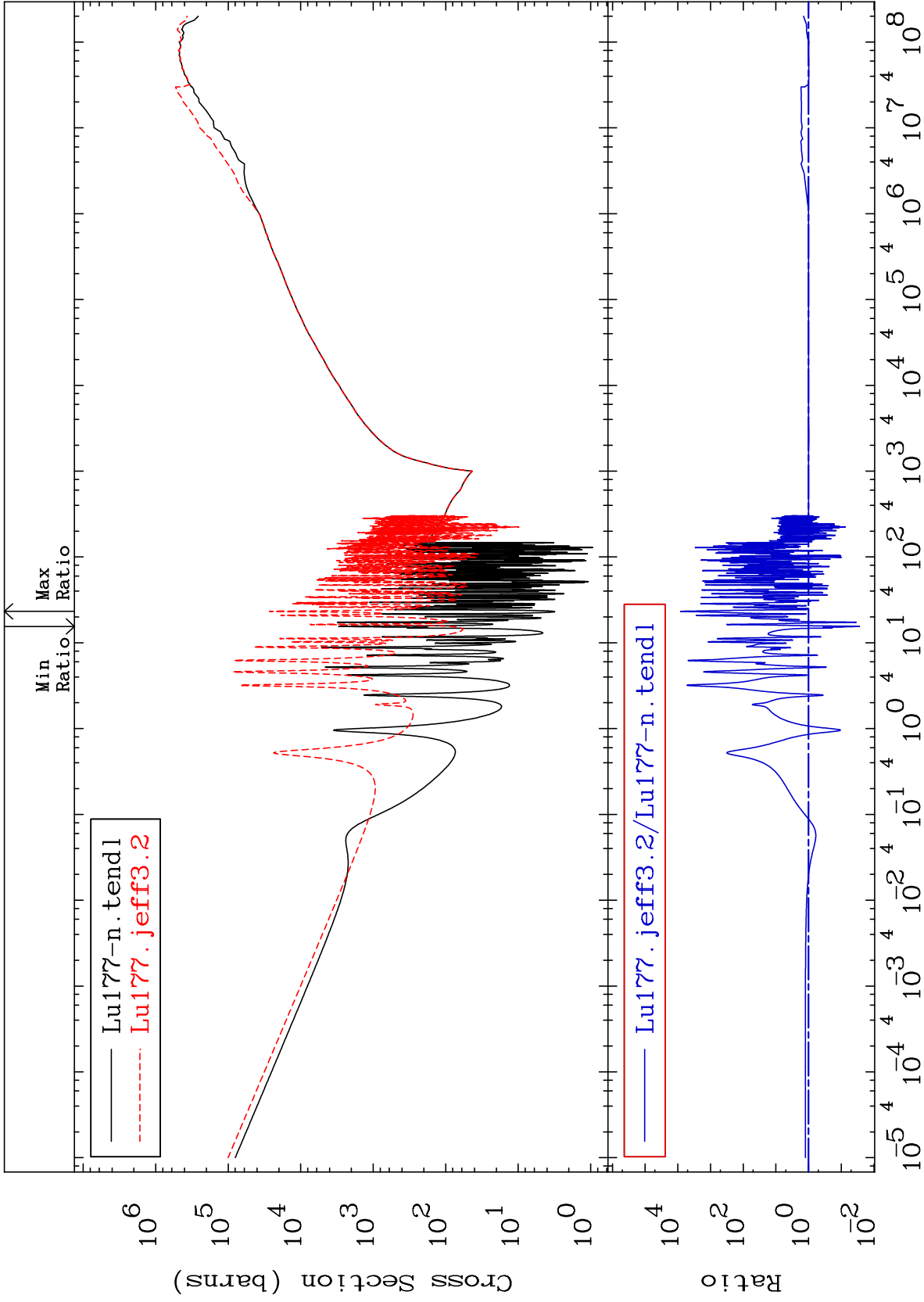
71-Lu-177



MAT 7131

Dpa total (eV-barns)  
Cross Section

71-Lu-177  
-97.22 To 9999. %



73

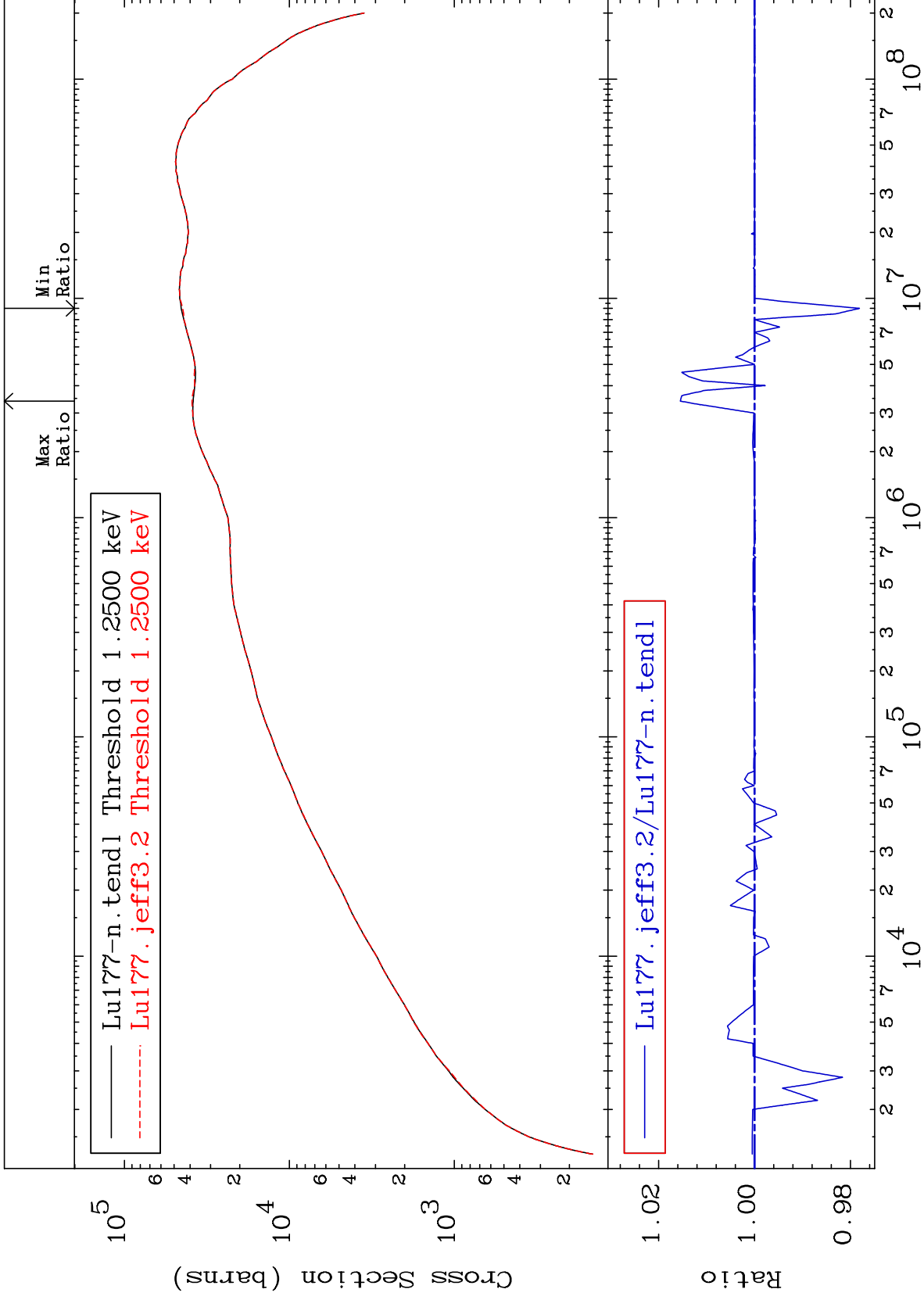
Incident Energy (eV)

71-Lu-177

MAT 7131

Dpa elastic (mt2)  
Cross Section

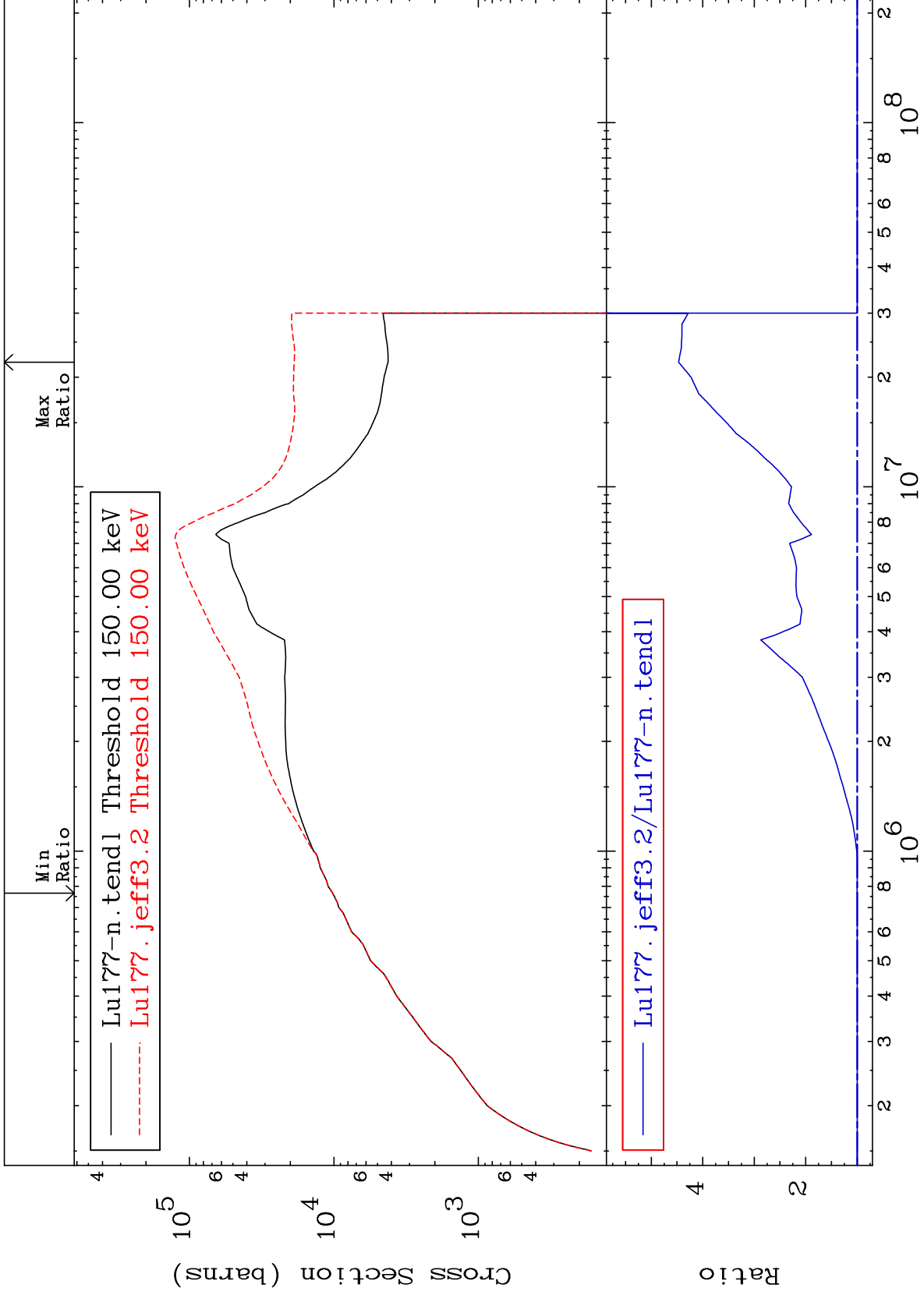
71-Lu-177  
-2.187 To 1.548 %



MAT 7131

Dpa inelastic (mt51-91)  
Cross Section

71-Lu-177  
-0.133 To 346.9 %



75

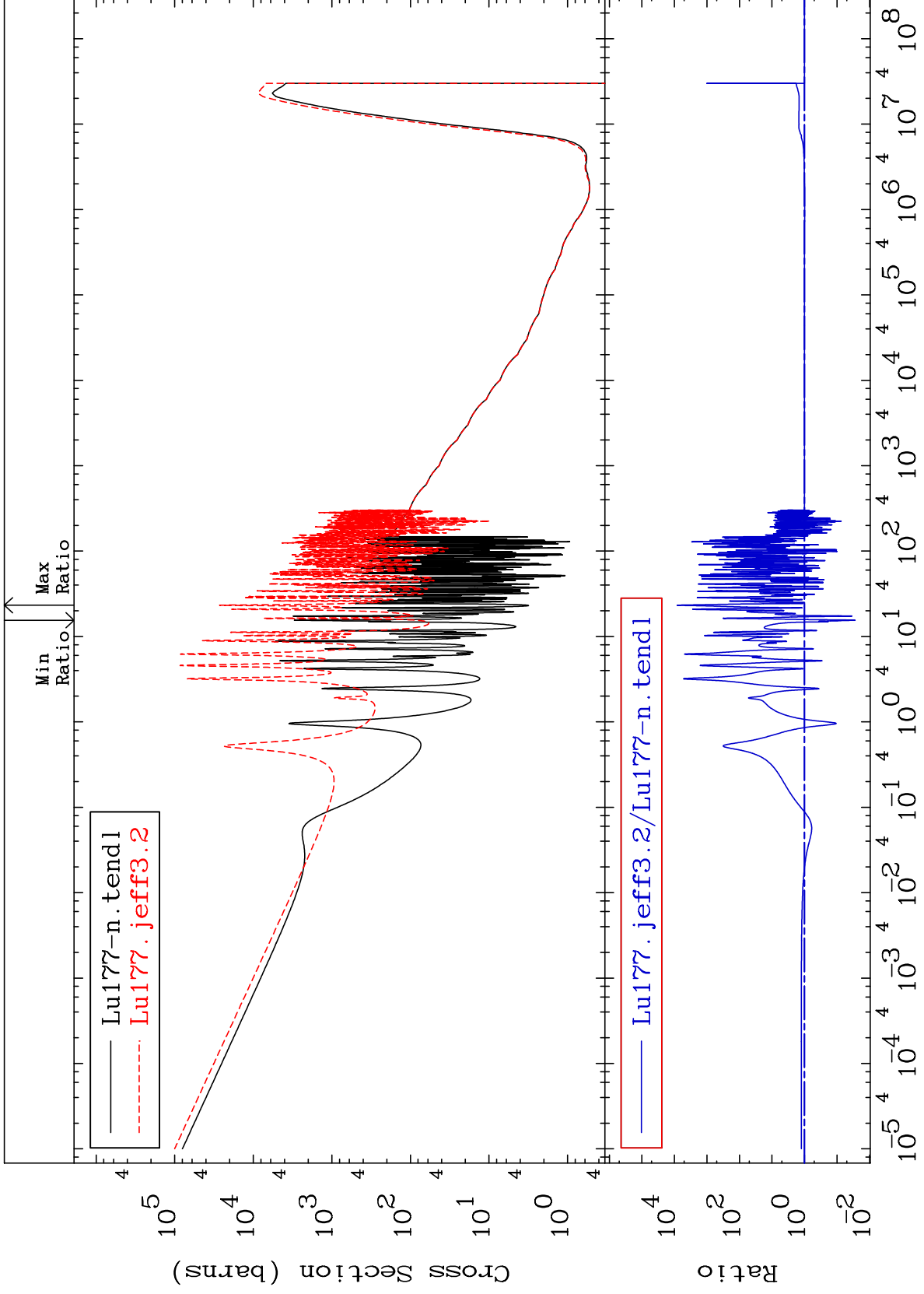
Incident Energy (eV)

71-Lu-177

MAT 7131

Dpa disappearance (mt102 -120)  
Cross Section

71-Lu-177  
-97.22 To 9999. %



76

Incident Energy (eV)

71-Lu-177

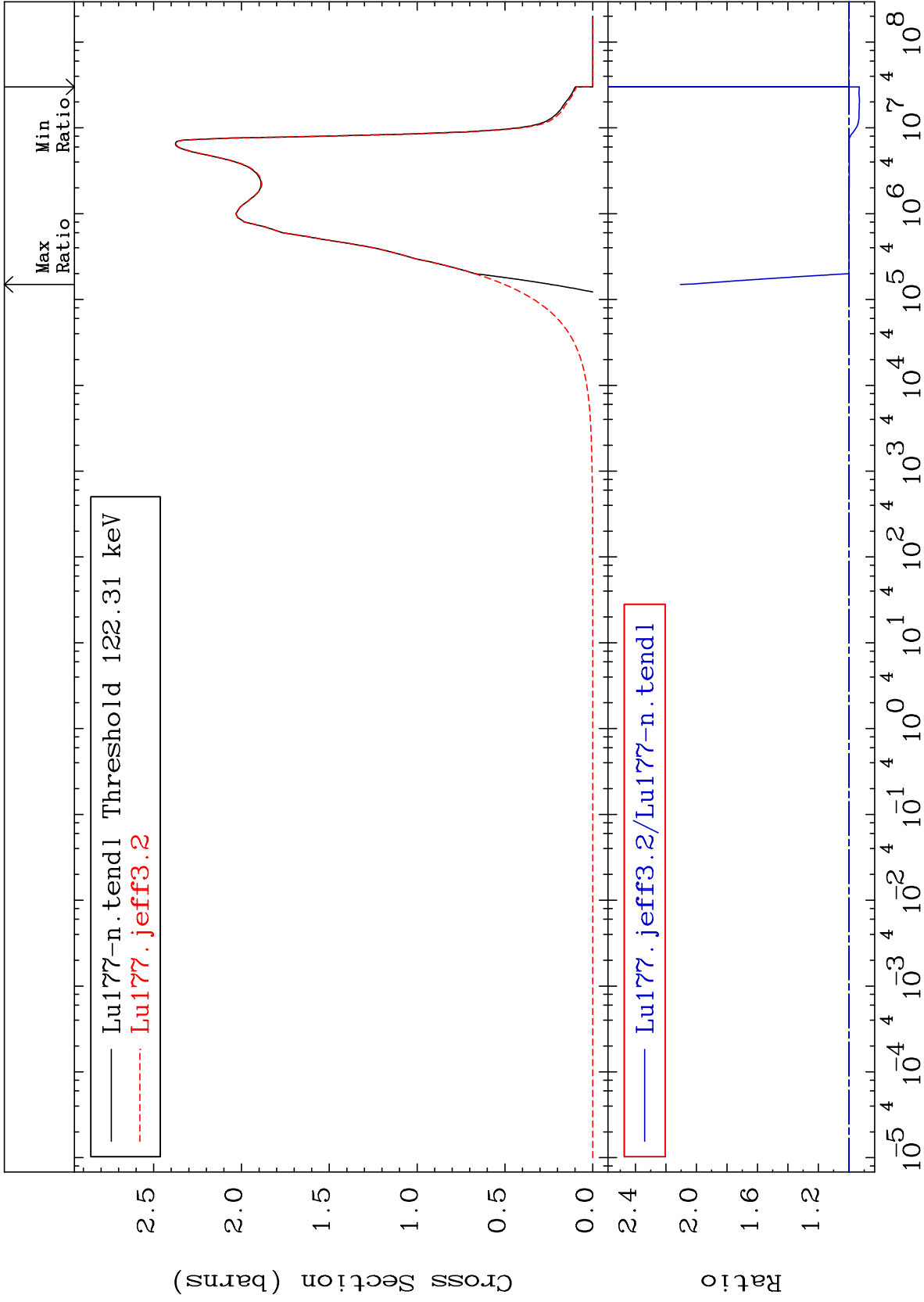
MAT 7131

Inelastic:71-Lu-177g

71-Lu-177

Radionuclide Production Cross Section

-6.914 To 110.5 %



77

Incident Energy (eV)

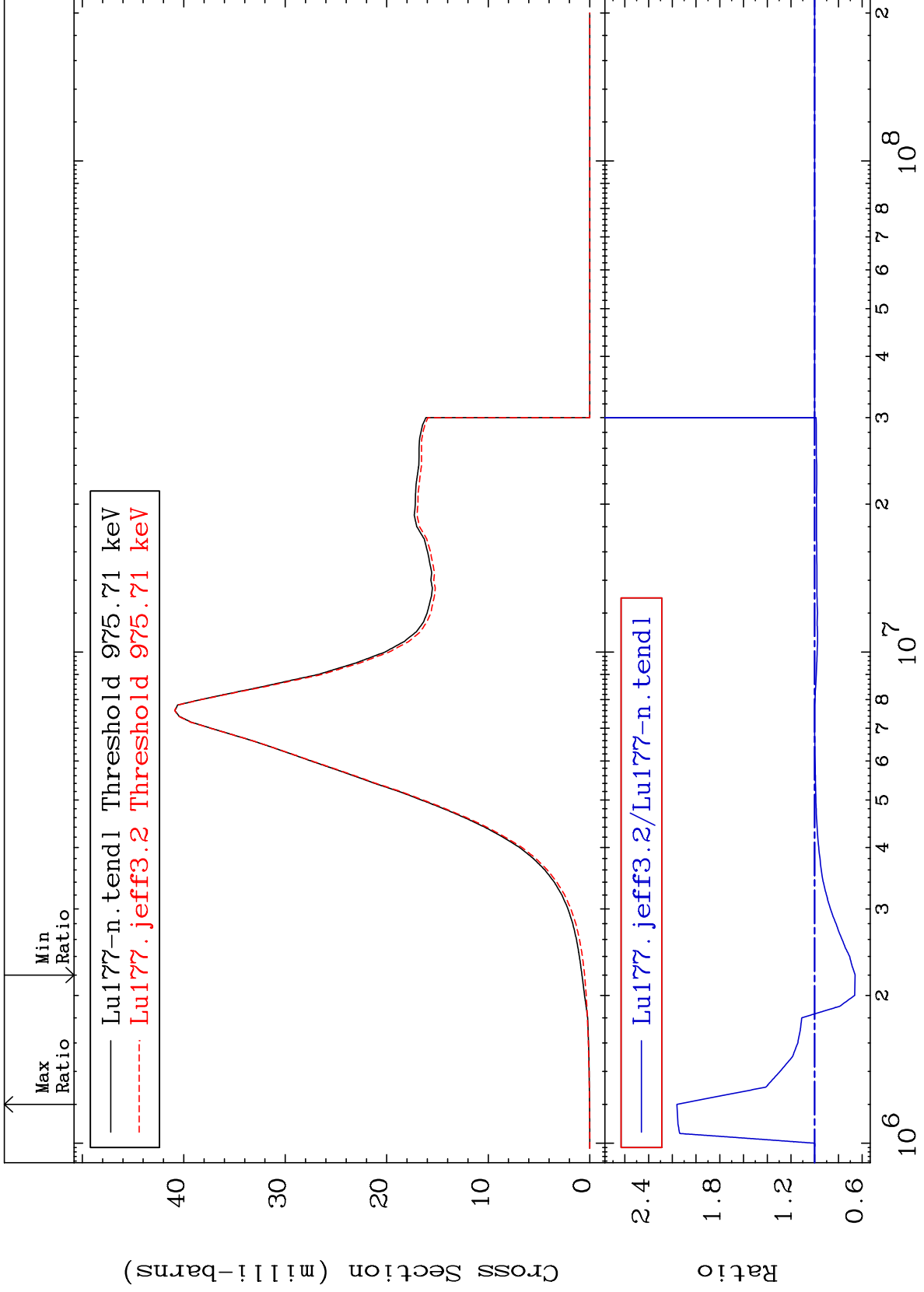
71-Lu-177

MAT 7131

Inelastic: 71-Lu-177m29

71-Lu-177

Radionuclide Production Cross Section -34.02 To 116.1 %



78

Incident Energy (eV)

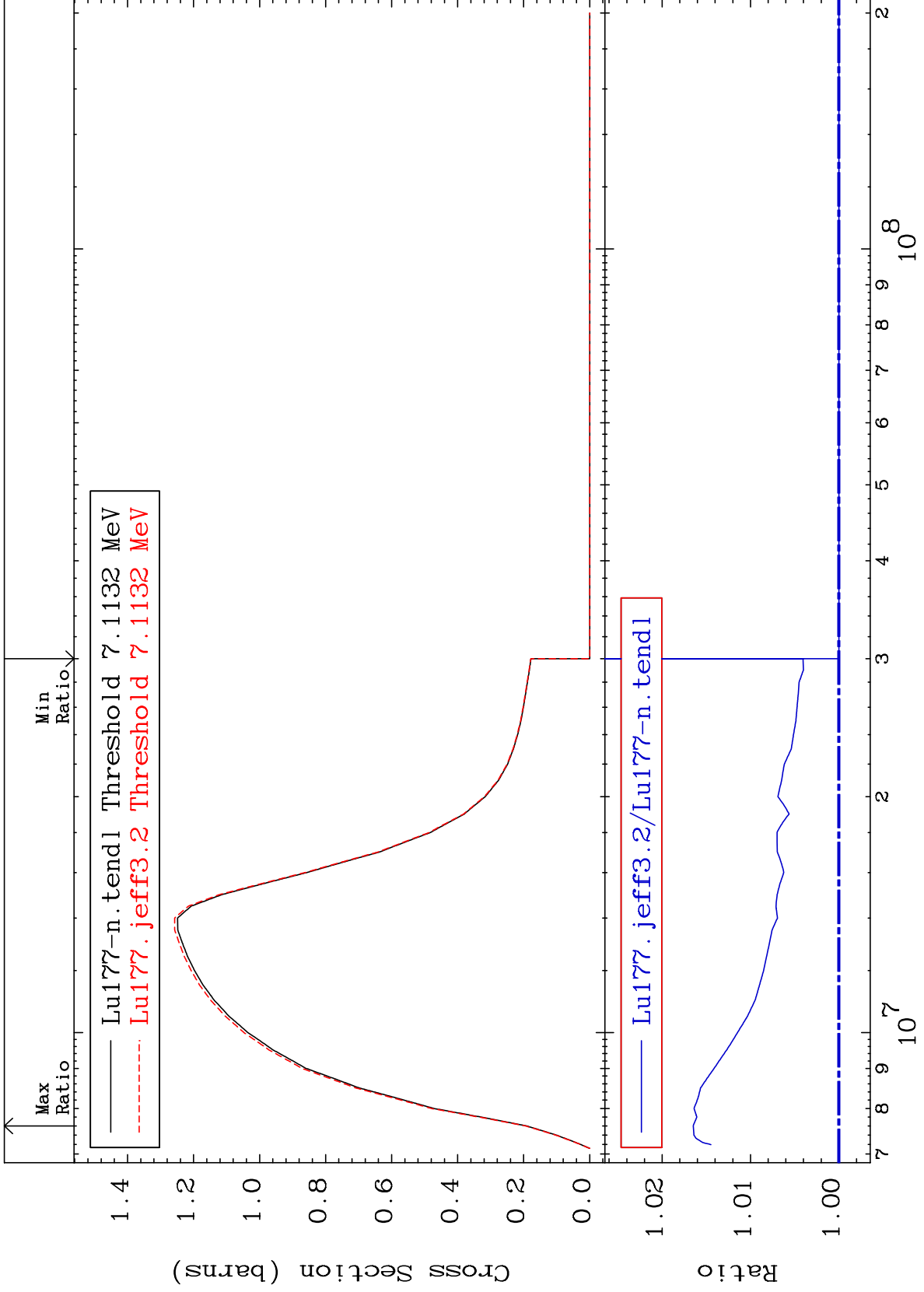
71-Lu-177

MAT 7131

(n,2n):71-Lu-176g

71-Lu-177

Radionuclide Production Cross Section 0.000 To 1.649 %



79

Incident Energy (eV)

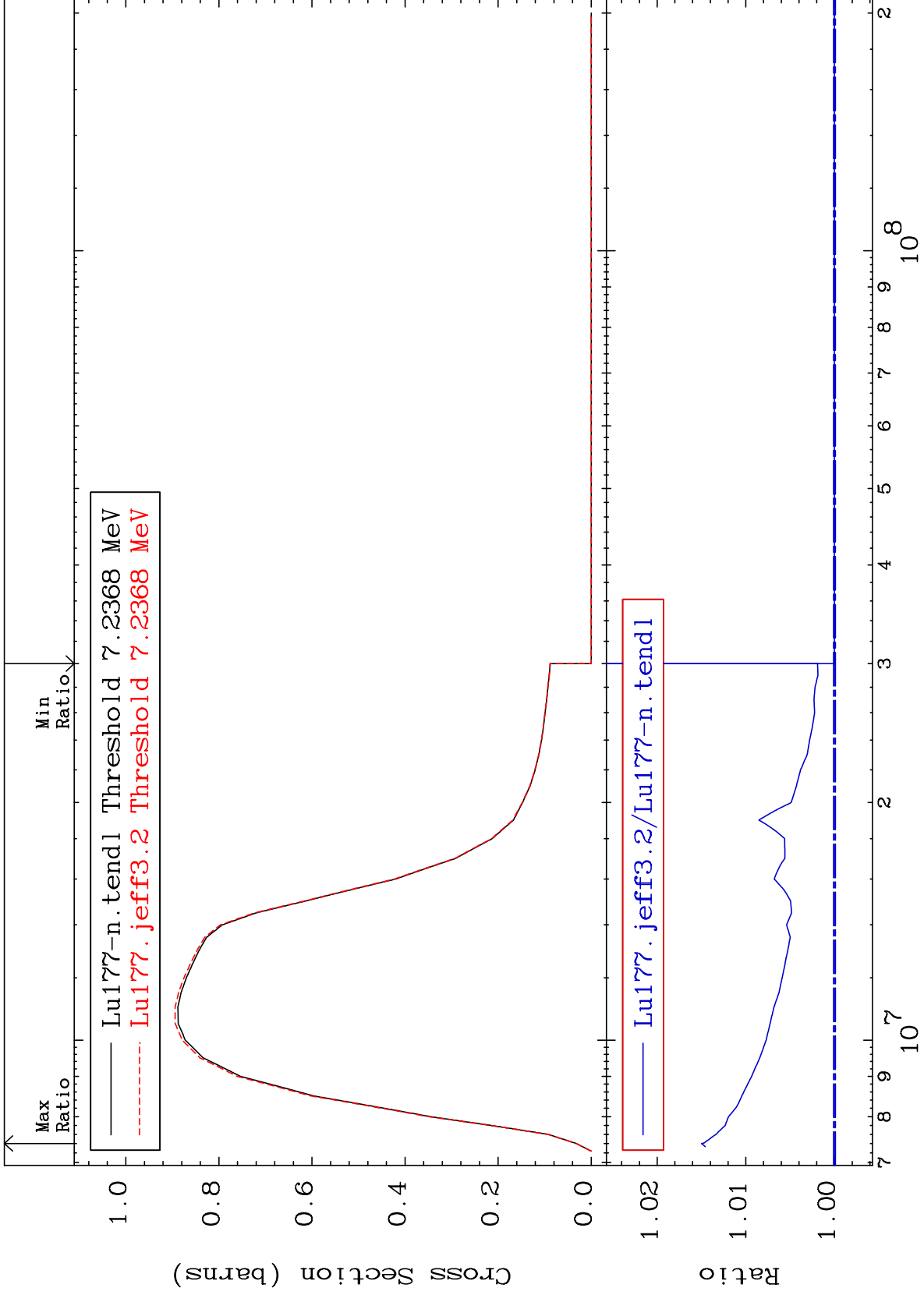
71-Lu-177

MAT 7131

(n,2n):71-Lu-176m1

71-Lu-177

Radionuclide Production Cross Section 0.000 To 1.500 %



80

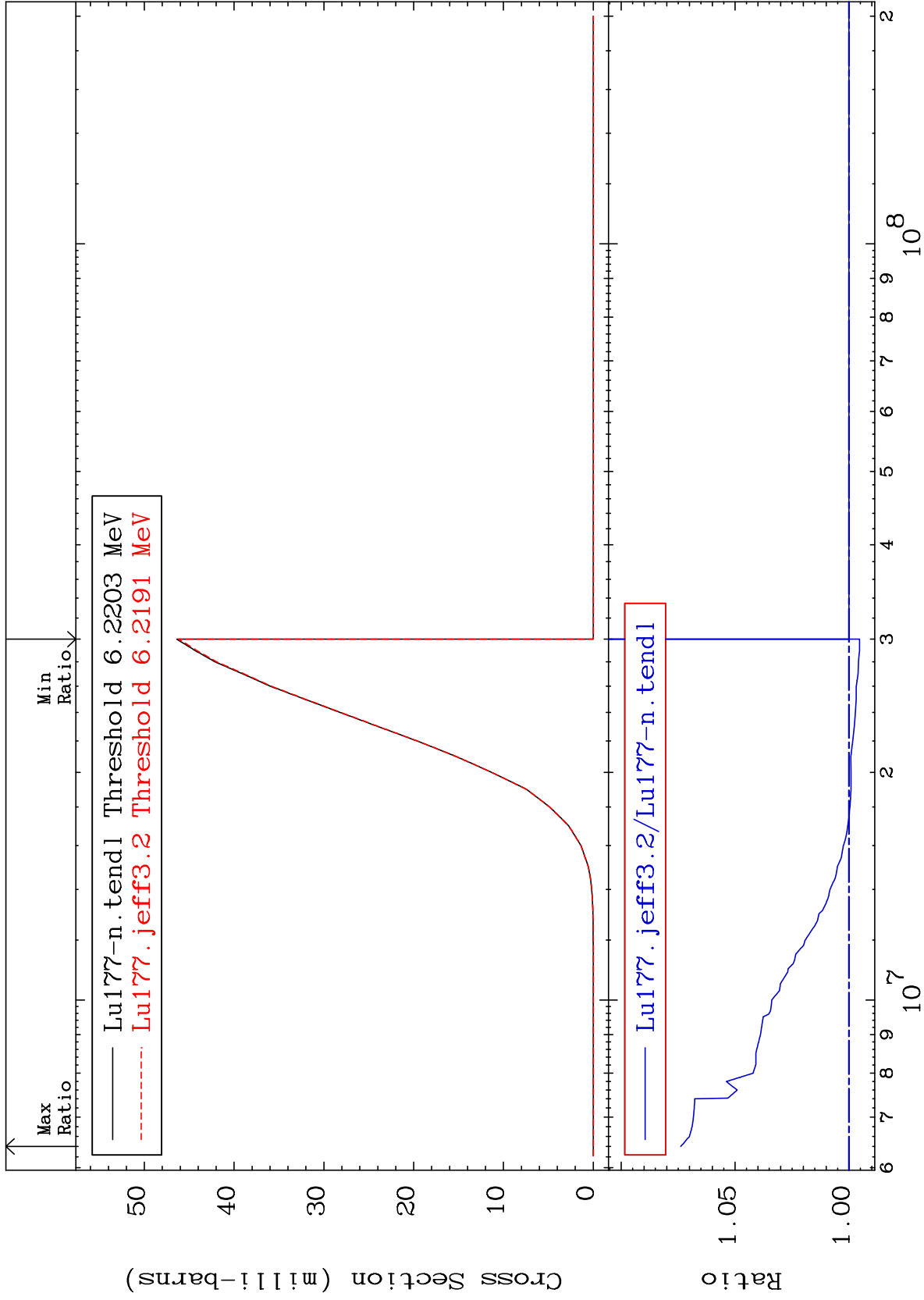
Incident Energy (eV)

71-Lu-177



MAT 7131

(n, n') p: 70-Yb-176g 71-Lu-177  
Radionuclide Production Cross Section -0.463 To 7.386 %



81

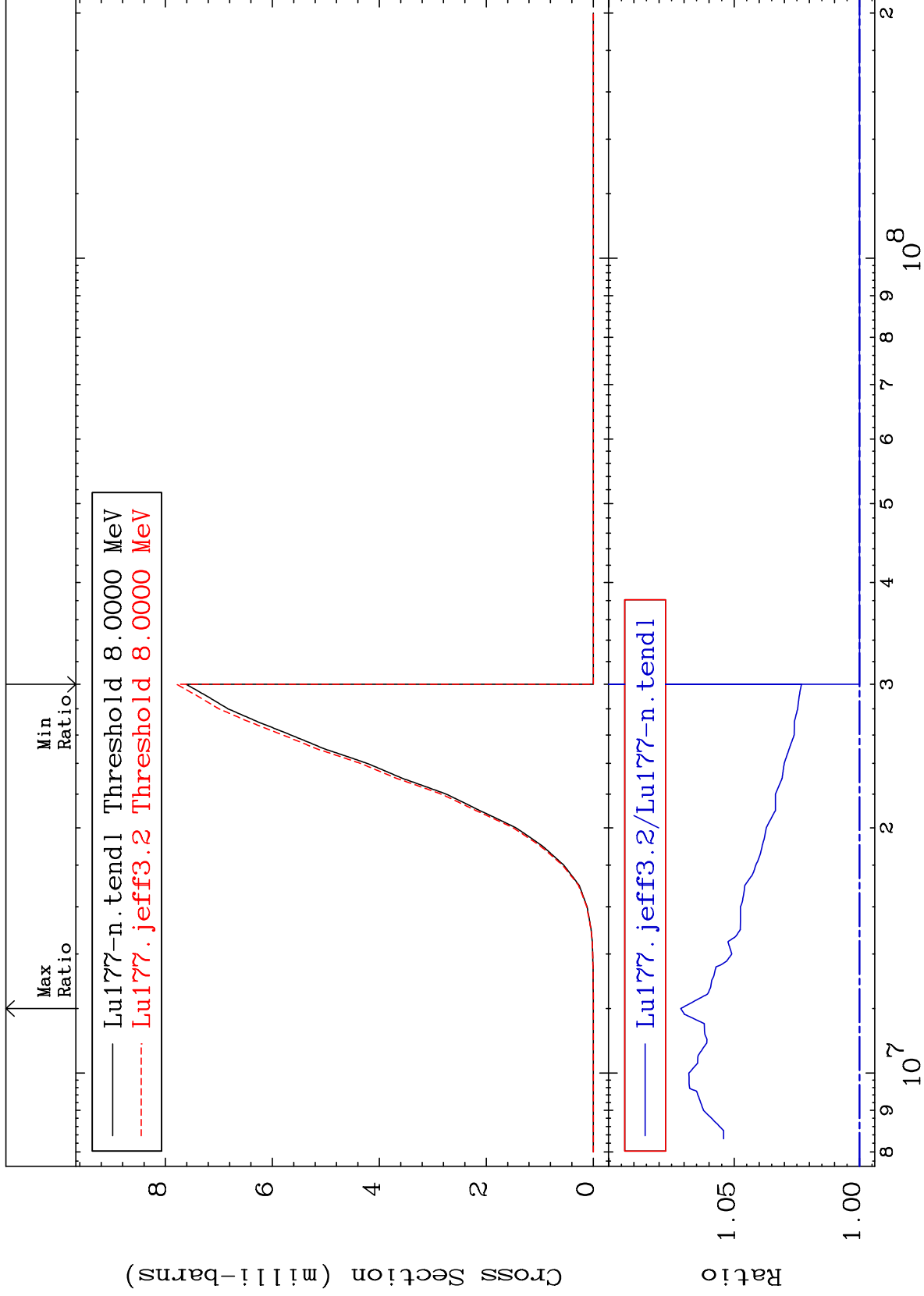
71-Lu-177

MAT 7131

(n, n') p:70-Yb-176m5

71-Lu-177

Radionuclide Production Cross Section 0.000 To 7.131 %



82

Incident Energy (eV)

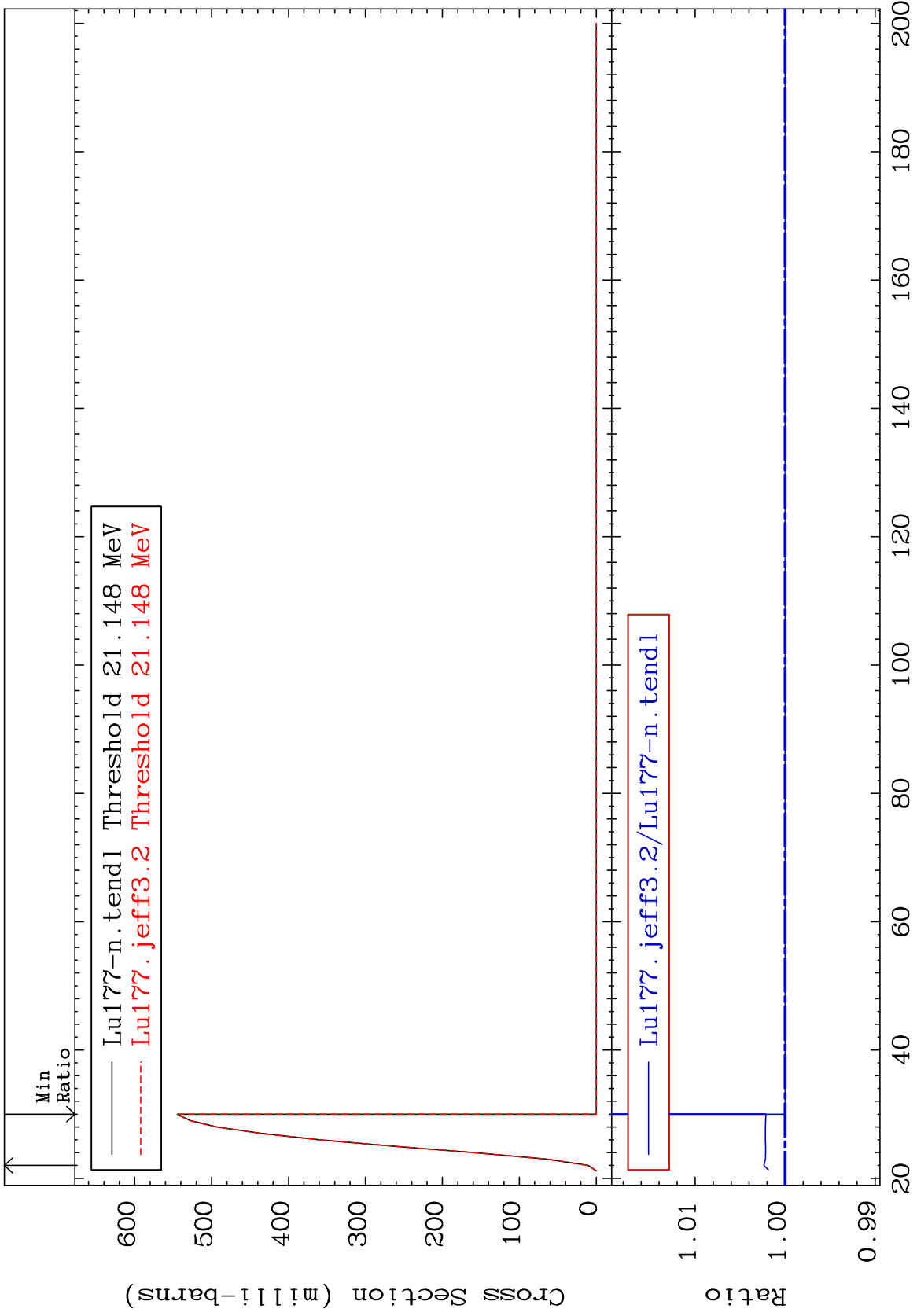
71-Lu-177

MAT 7131

(n, 4n) : 71-Lu-174g

71-Lu-177

Radionuclide Production Cross Section 0.000 To 0.234 %

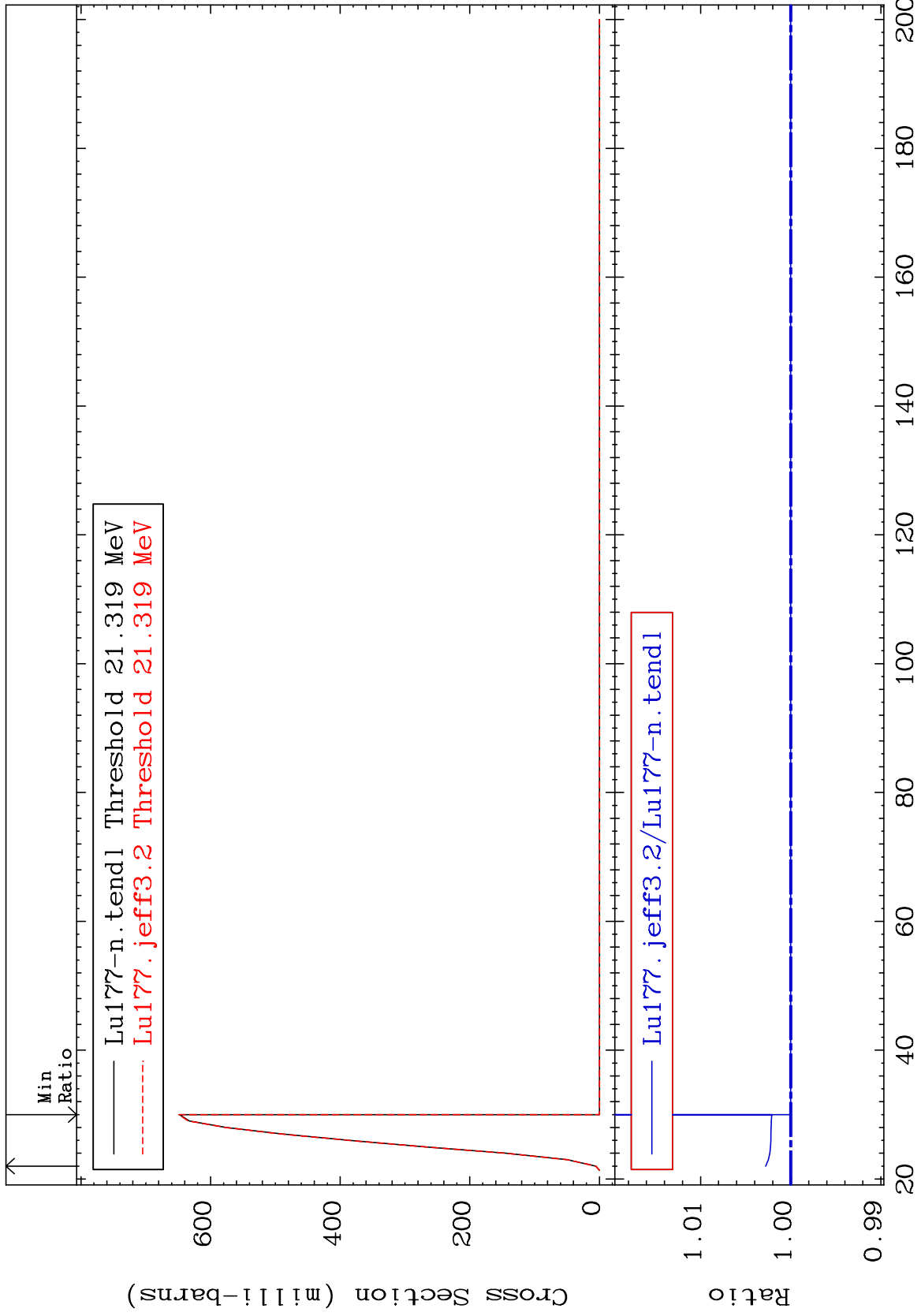


MAT 7131

(n, 4n) : 71-Lu-174m3

71-Lu-177

Radionuclide Production Cross Section 0.000 To 0.279 %



84

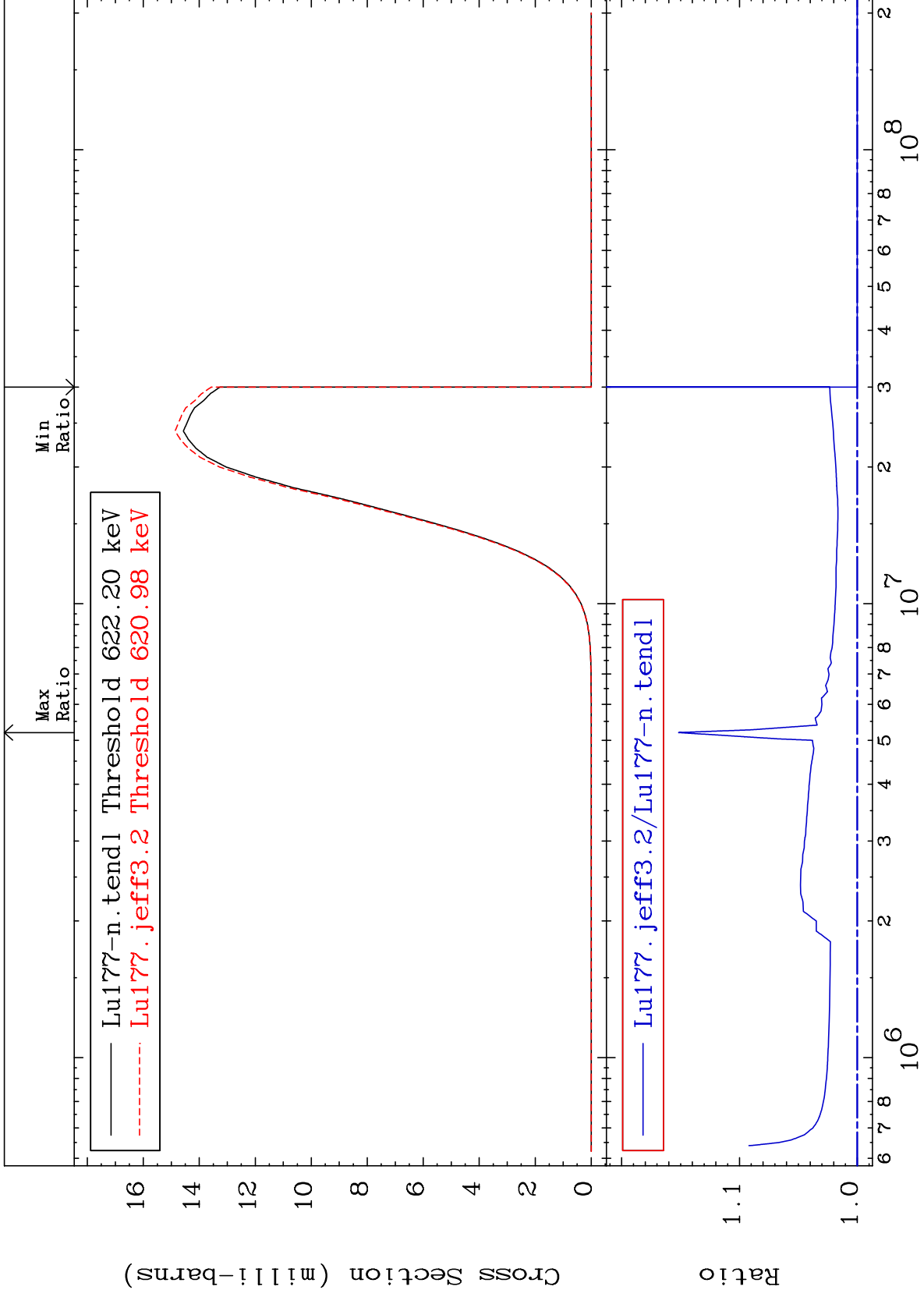
Incident Energy (MeV)

71-Lu-177

MAT 7131

(n, p) : 70-Yb-177g  
Radionuclide Production Cross Section 0.000 To 15.17 %

71-Lu-177



85

Incident Energy (eV)

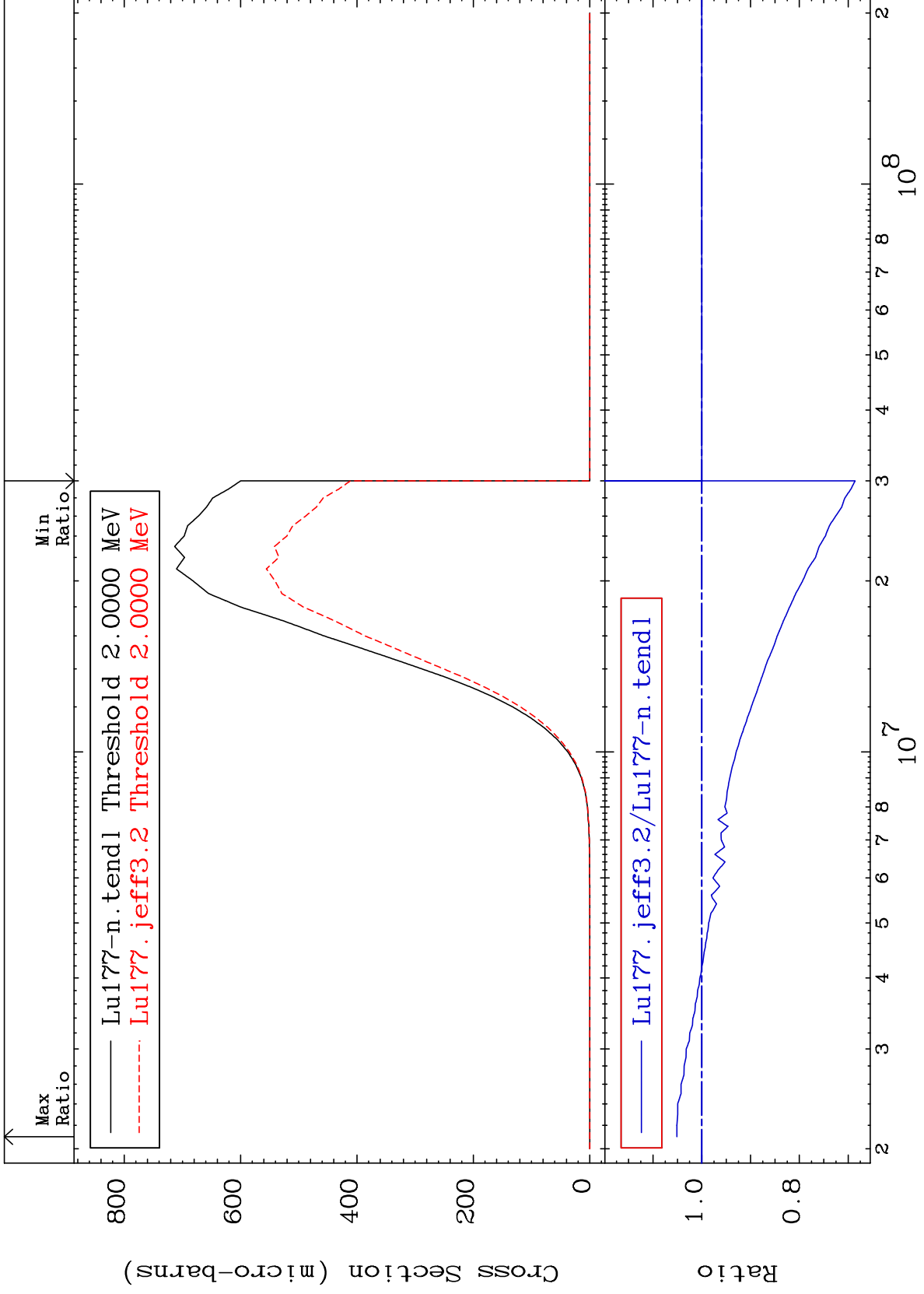
71-Lu-177

MAT 7131

(n, p) : 70-Yb-177m6

71-Lu-177

Radionuclide Production Cross Section -31.42 To 5.099 %

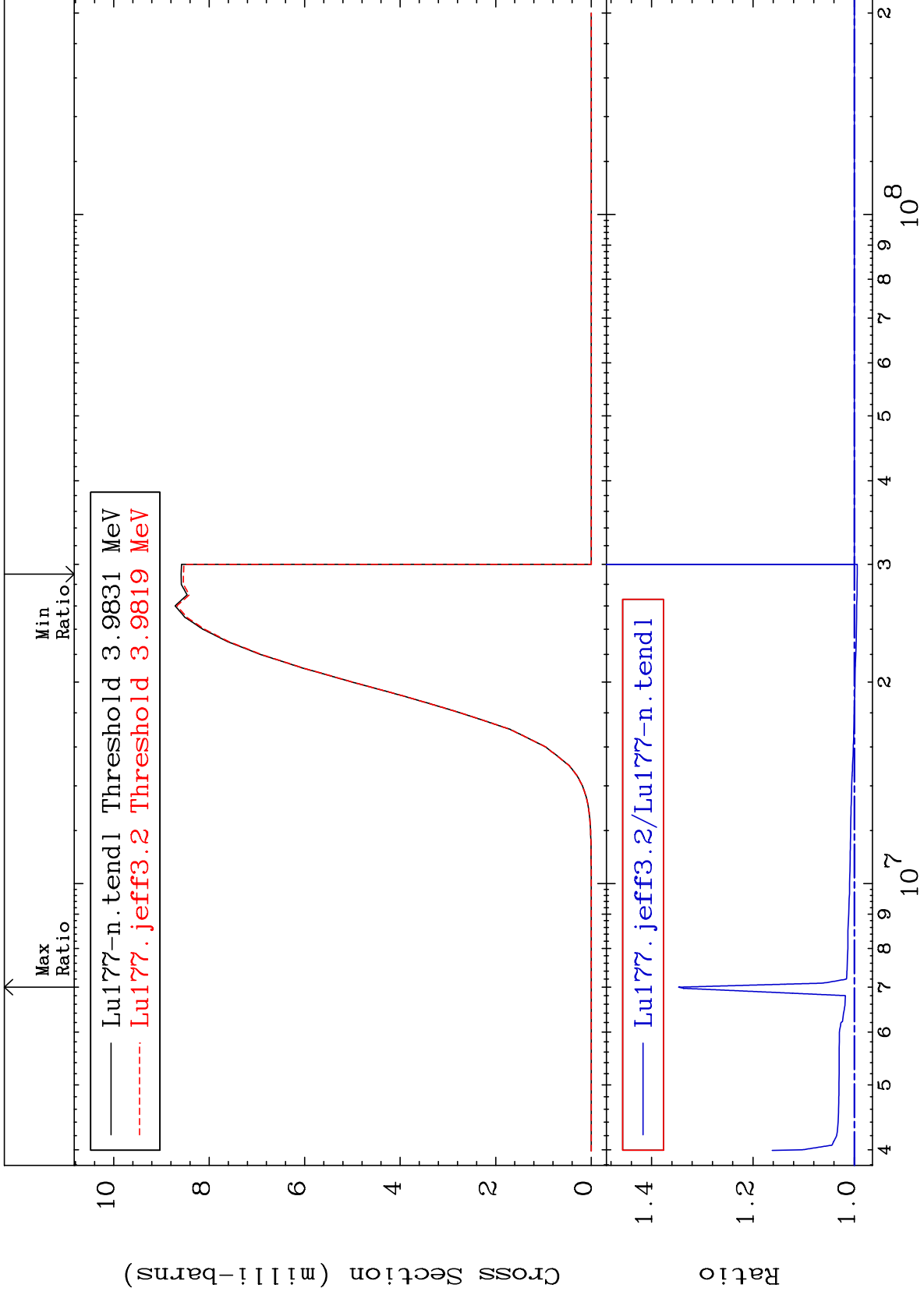


MAT 7131

(n, d) : 70-Yb-176g

71-Lu-177

Radionuclide Production Cross Section -0.580 To 34.67 %



87

Incident Energy (eV)

71-Lu-177

MAT 7131

(n, d) : 70-Yb-176m5

71-Lu-177

Radionuclide Production Cross Section 0.000 To 3.423 %

