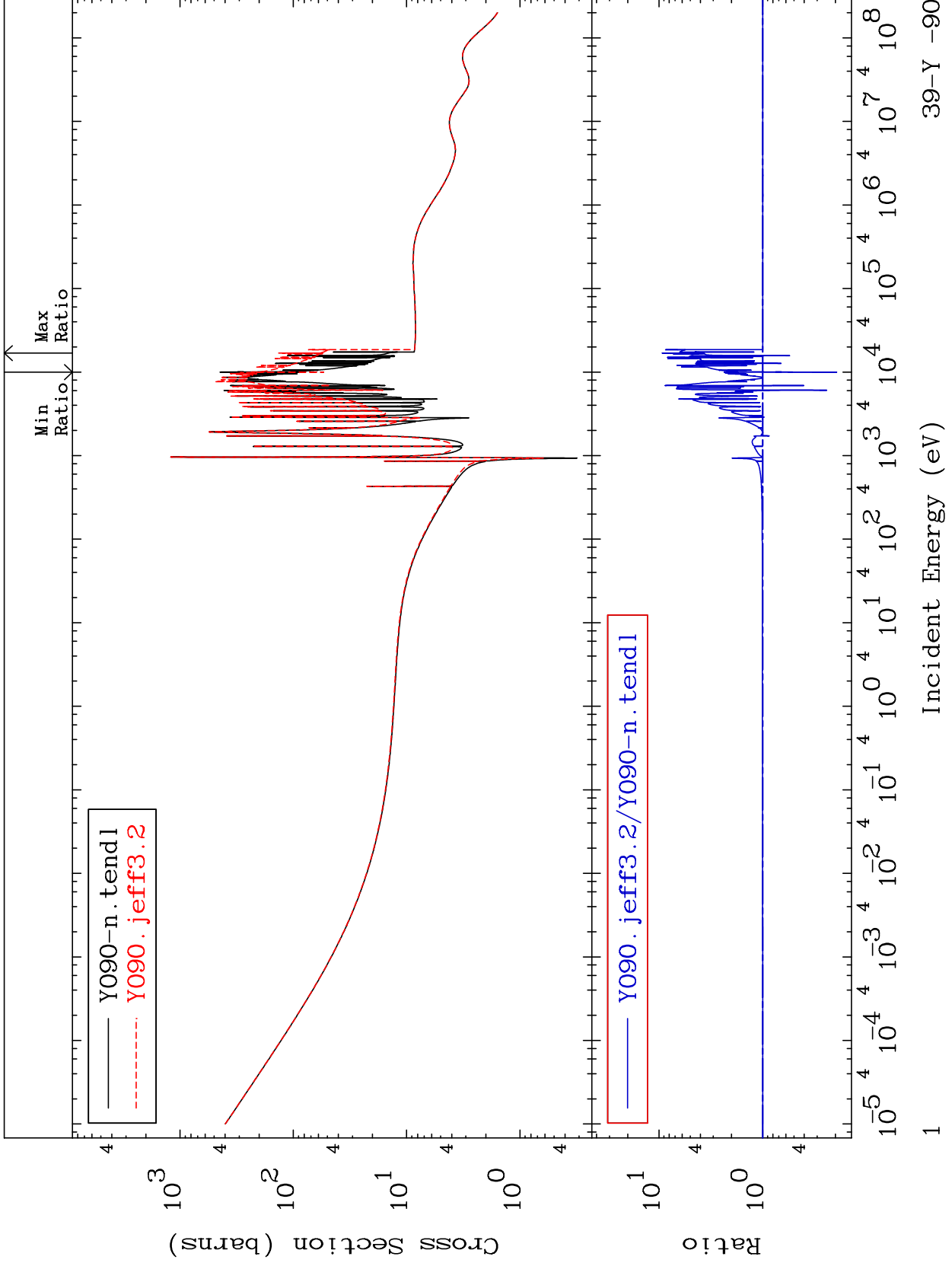
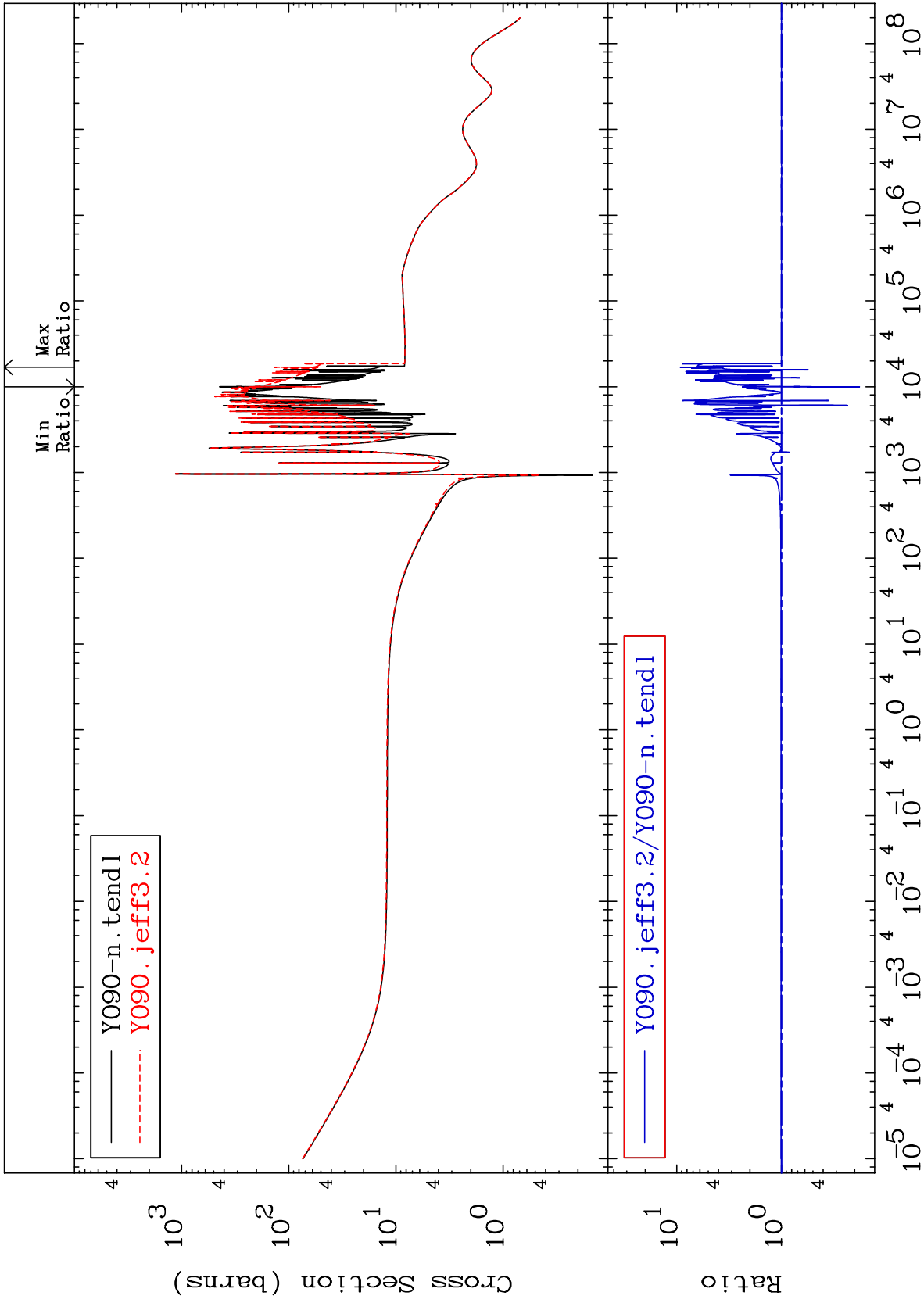


MAT 3928

Total  
Cross Section

39-Y -90  
-80.57 To 830.1 %

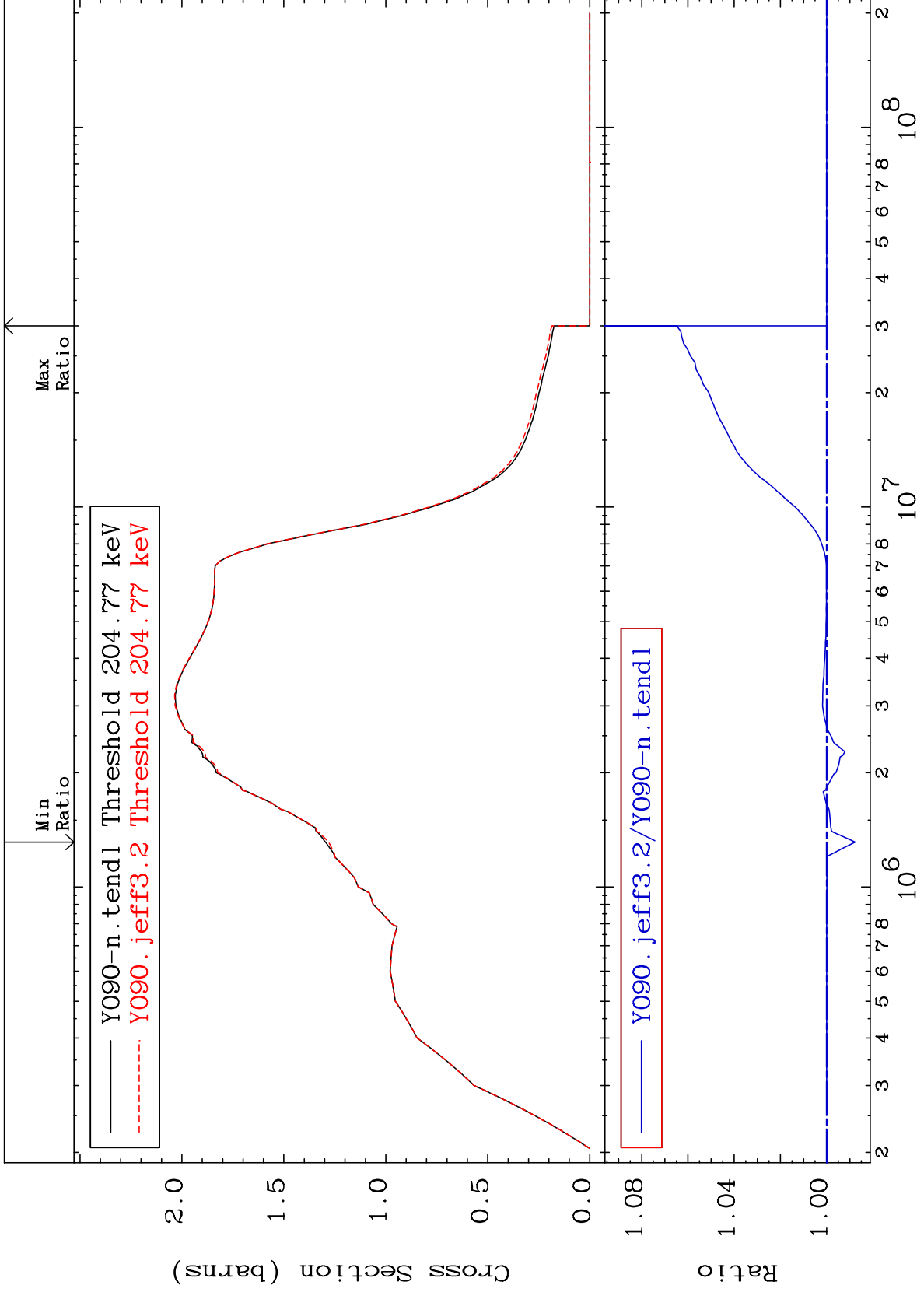




MAT 3928

Inelastic  
Cross Section

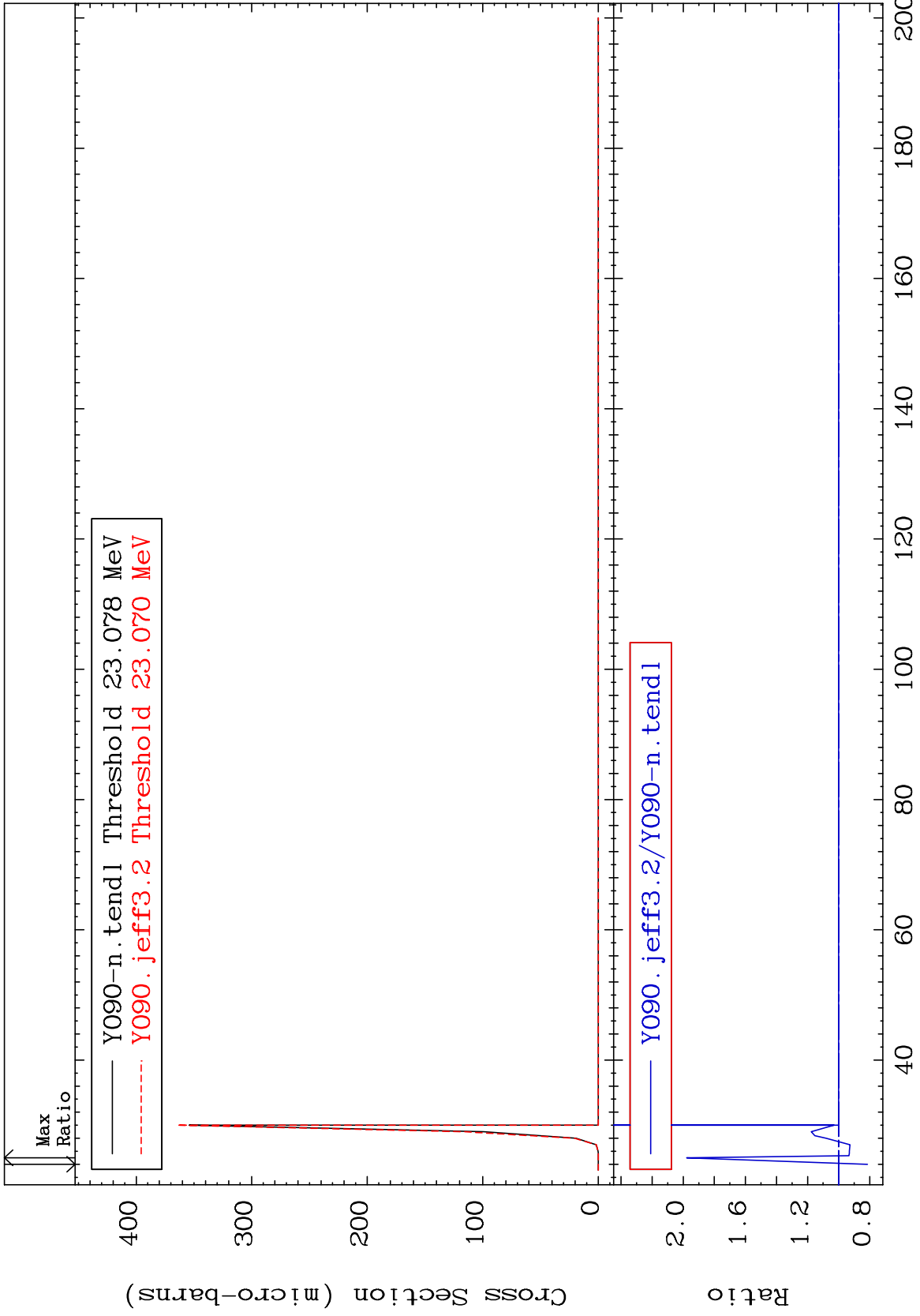
39-Y -90  
-1.228 To 6.478 %



MAT 3928

(n,2n) d  
Cross Section

39-Y -90  
-18.52 To 97.78 %



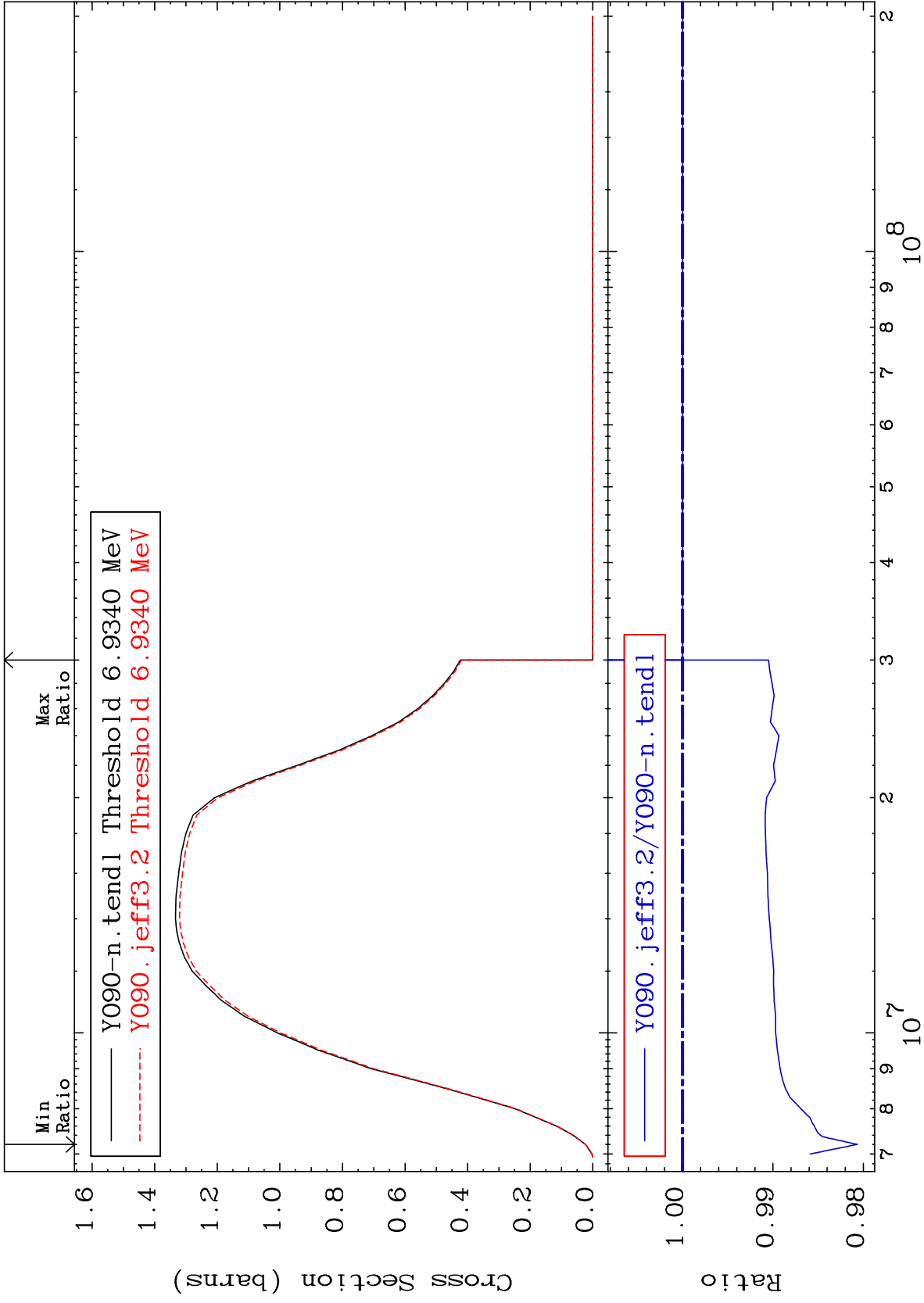
MAT 3928

(n,2n)

39-Y -90

Cross Section

-1.932 To 0.000 %



5

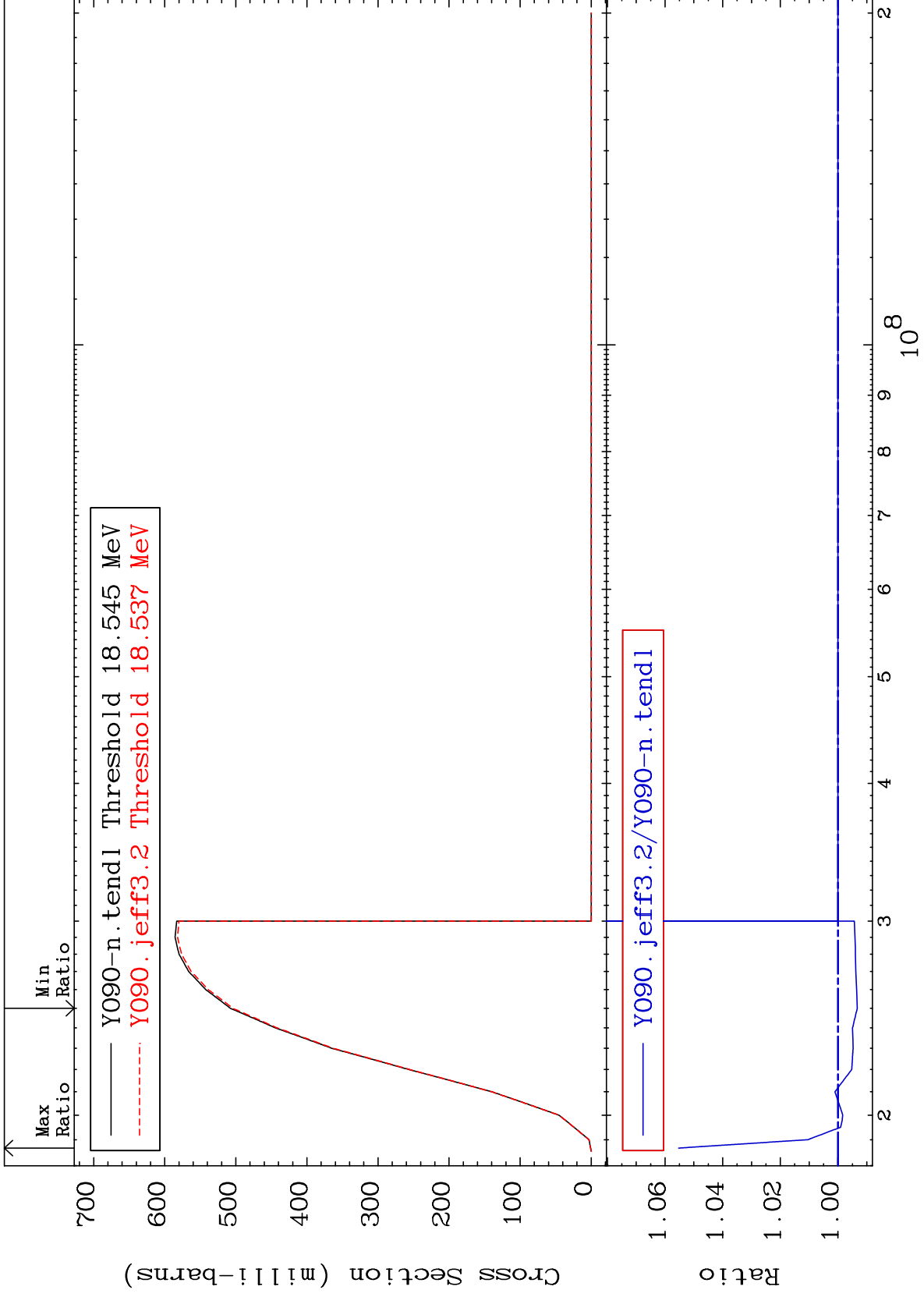
Incident Energy (eV)

39-Y -90

MAT 3928

(n,3n)  
Cross Section

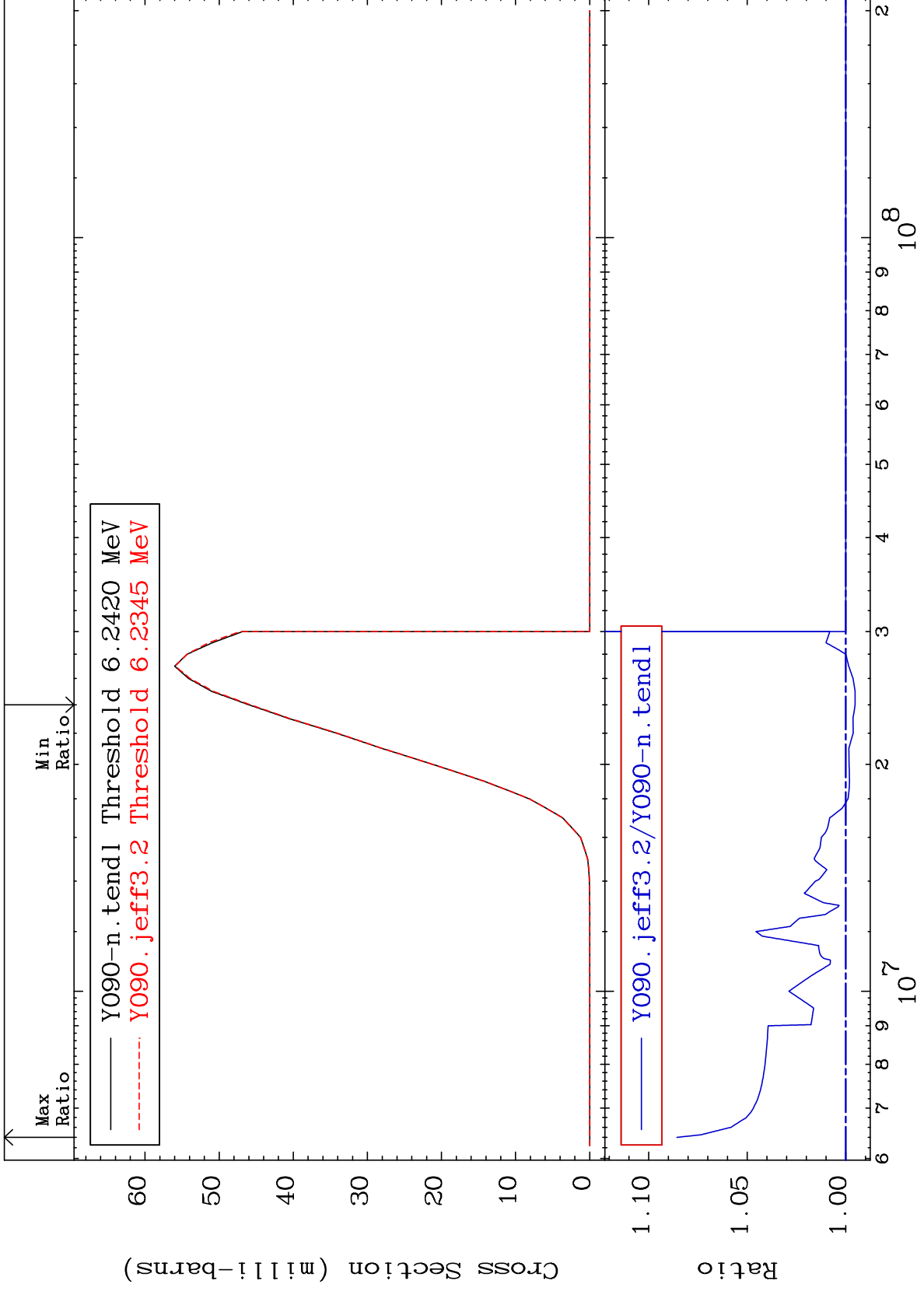
39-Y -90  
-0.669 To 5.528 %



MAT 3928

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

39-Y -90  
-0.470 To 8.569 %



7

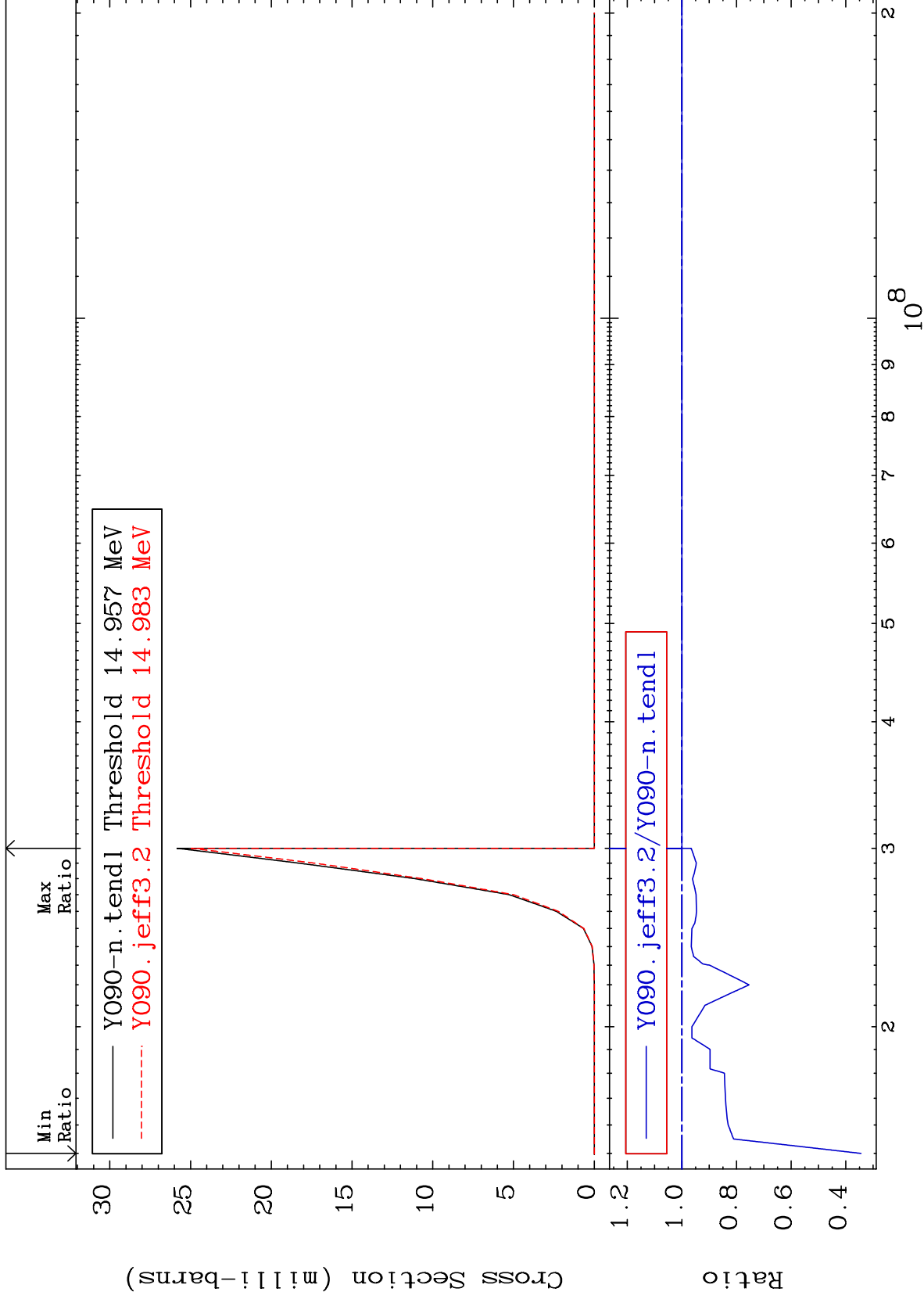
Incident Energy (eV)

39-Y -90

MAT 3928

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

39-Y -90  
-65.57 To 0.000 %

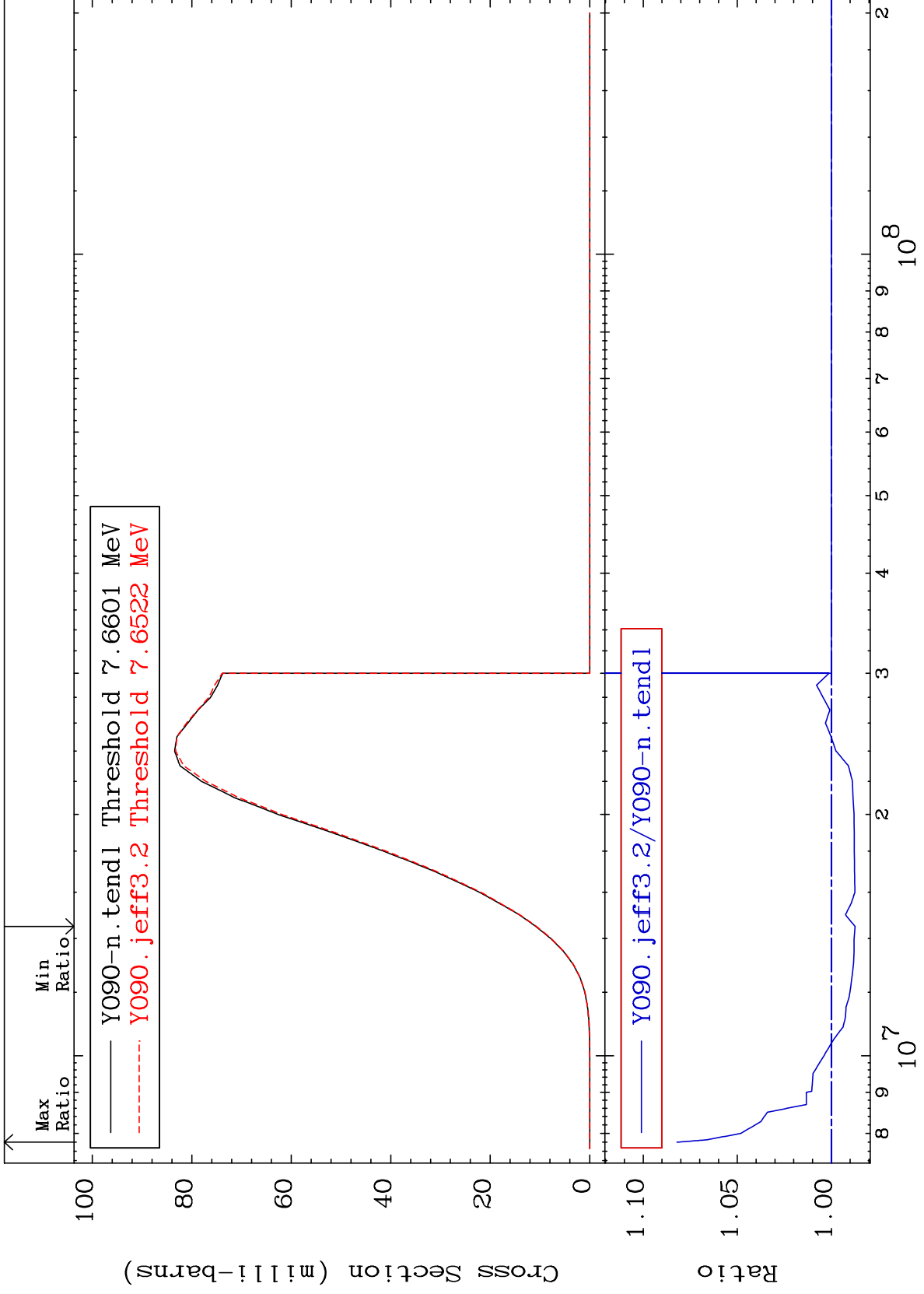




MAT 3928

(n,n') p  
Cross Section

39-Y -90  
-1.261 To 8.209 %



9

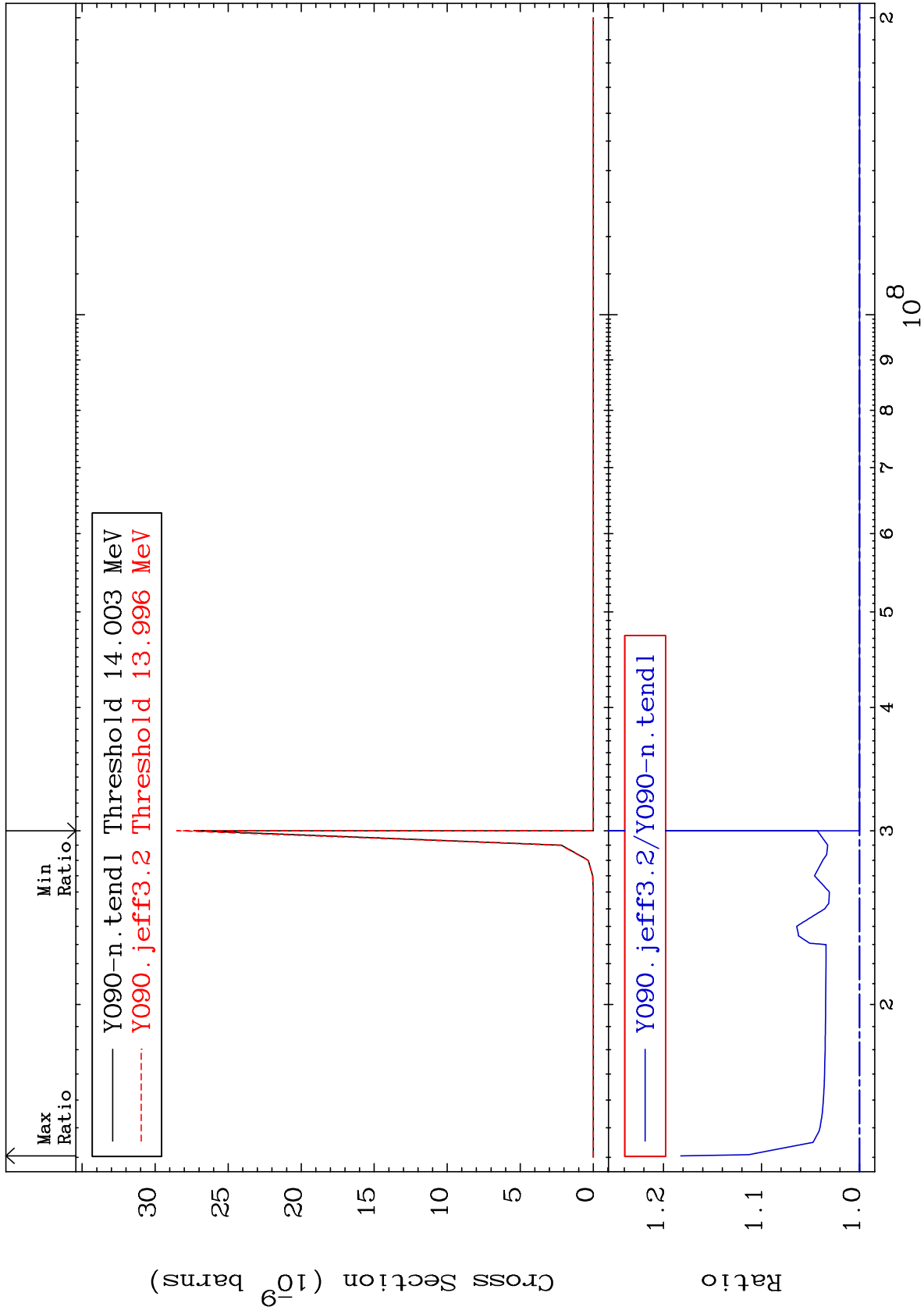
Incident Energy (eV)

39-Y -90

MAT 3928

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

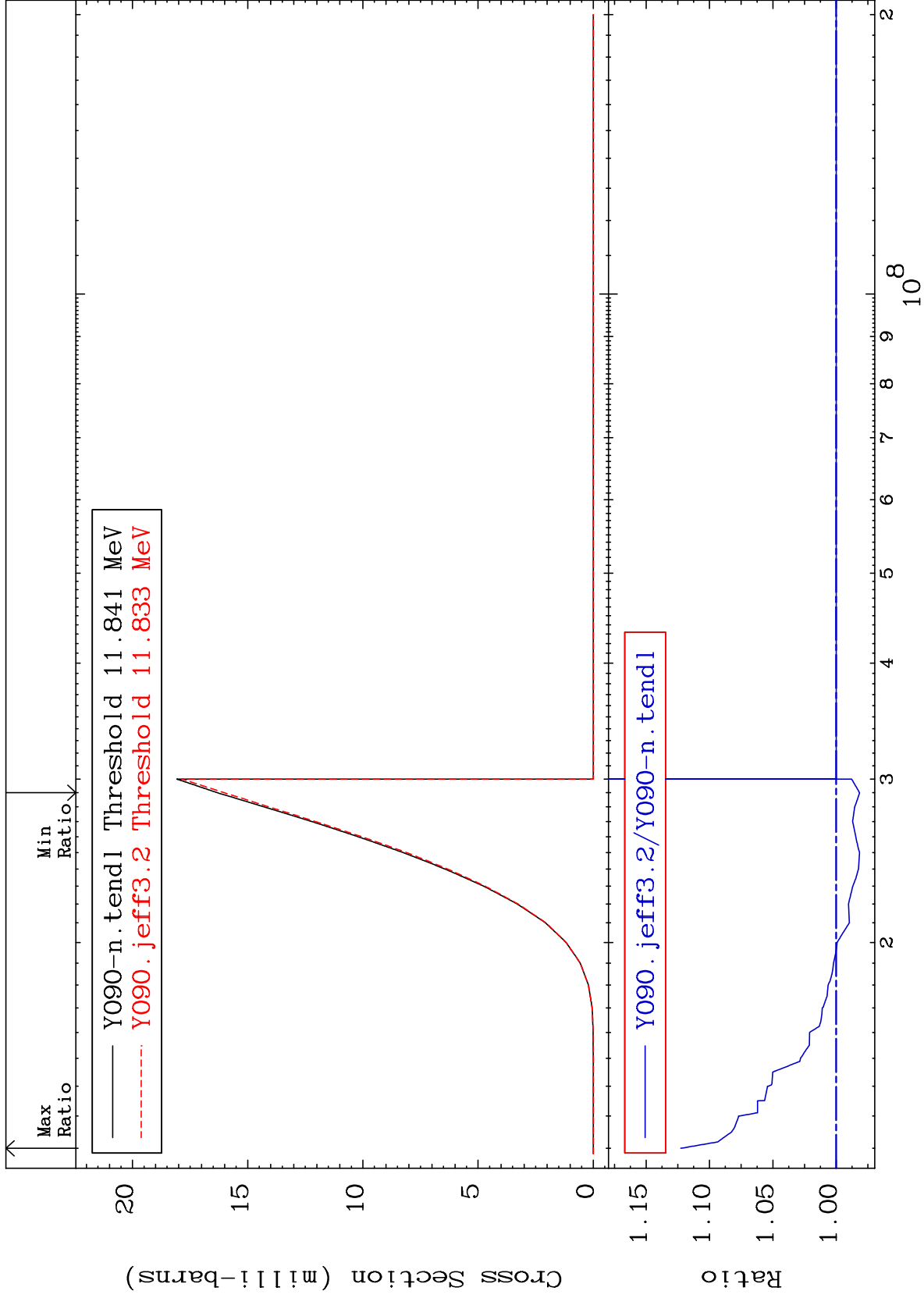
39-Y -90  
0.000 To 18.24 %



10

Incident Energy (eV)

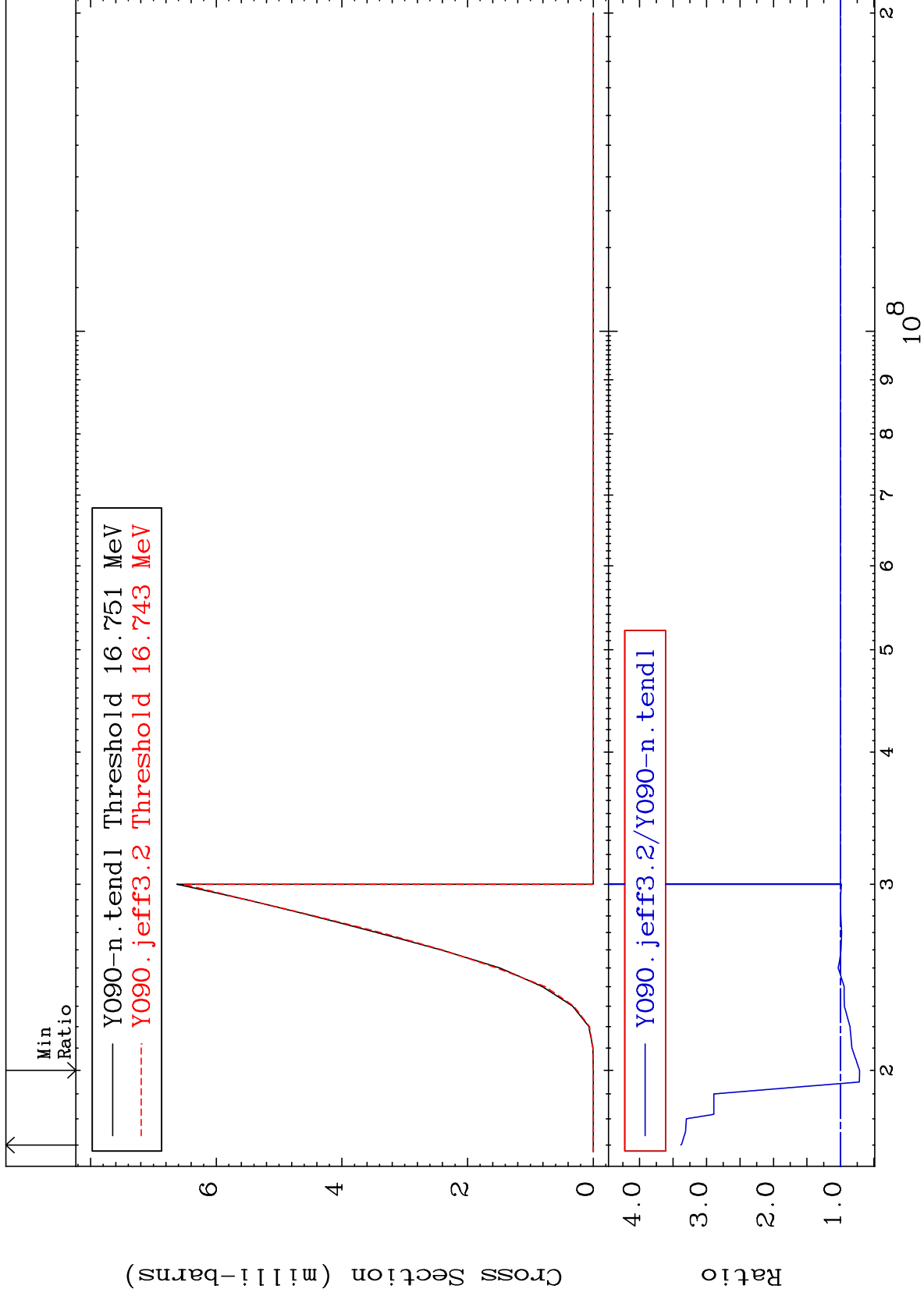
39-Y -90



MAT 3928

(n,n') t  
Cross Section

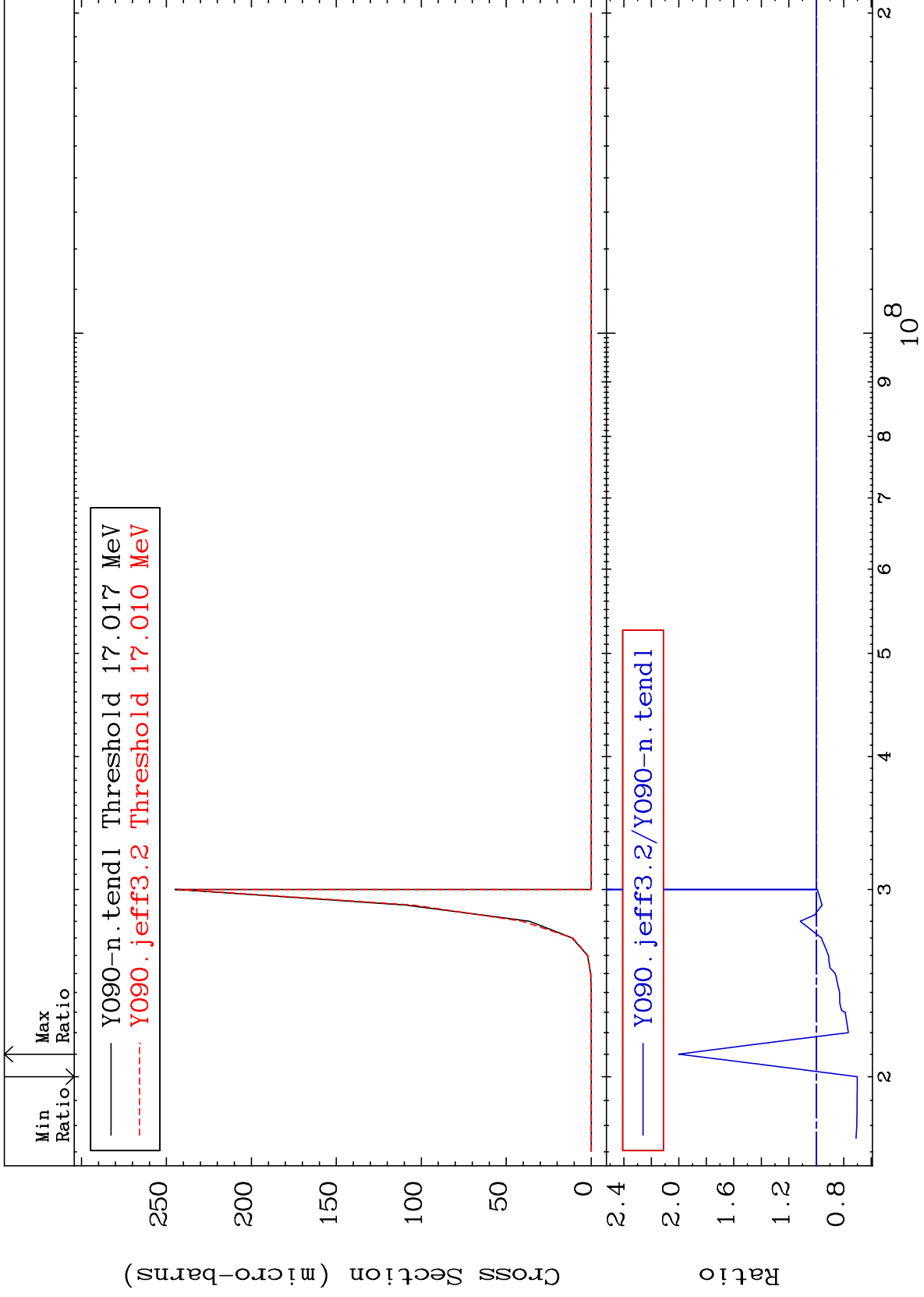
39-Y -90  
-28.58 To 238.5 %



12

Incident Energy (eV)

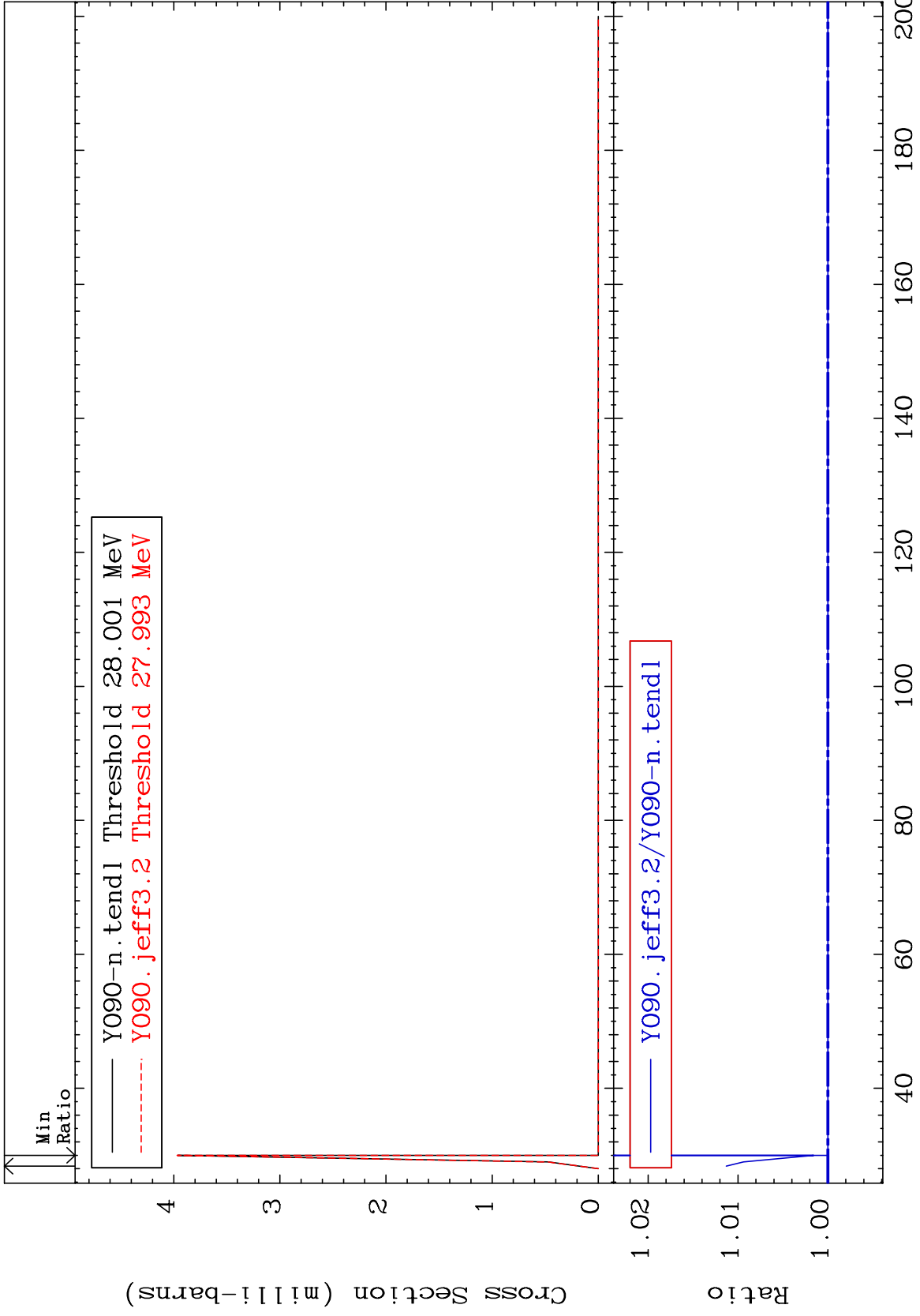
39-Y -90

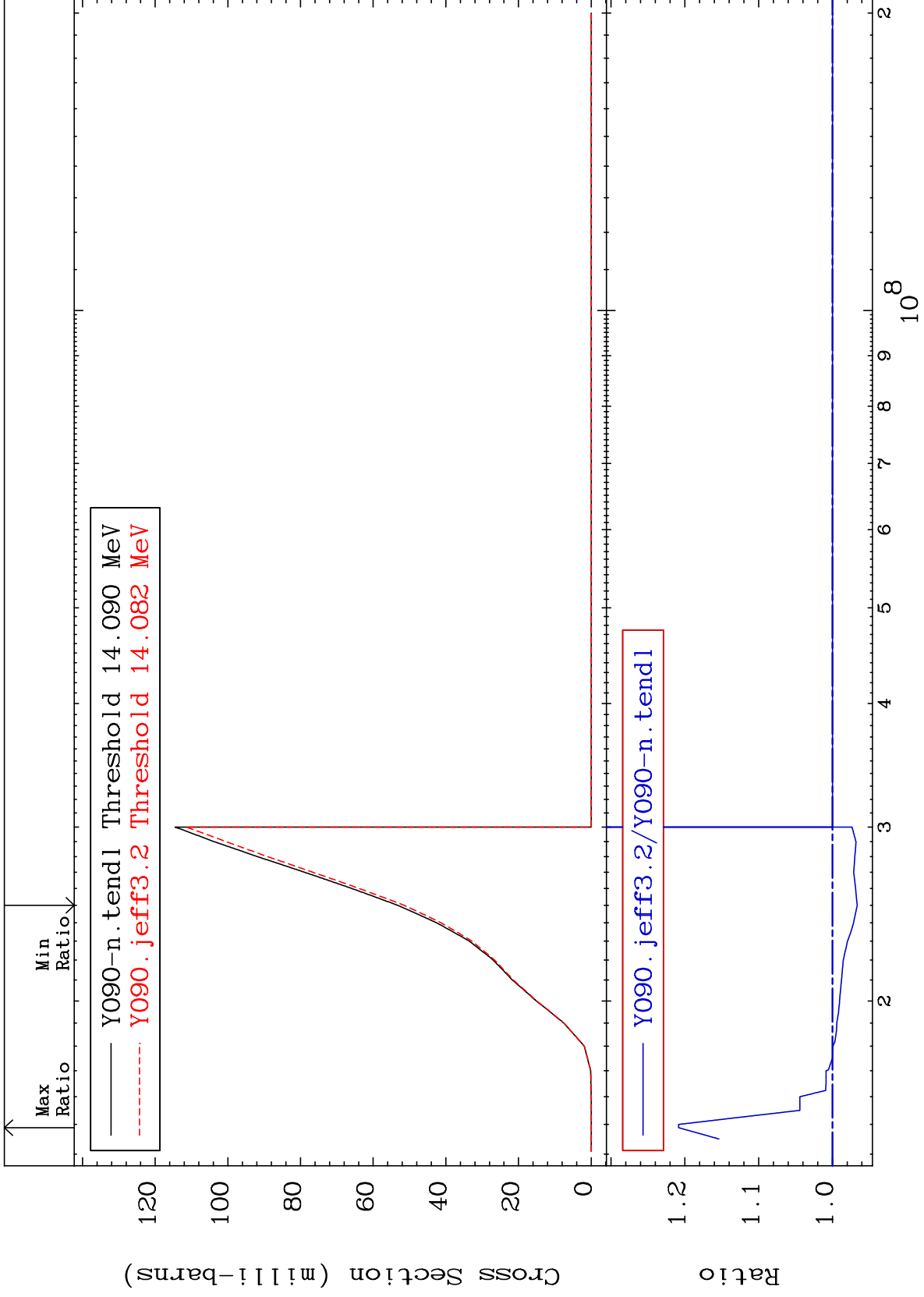


MAT 3928

(n,4n)  
Cross Section

39-Y -90  
0.000 To 1.130 %

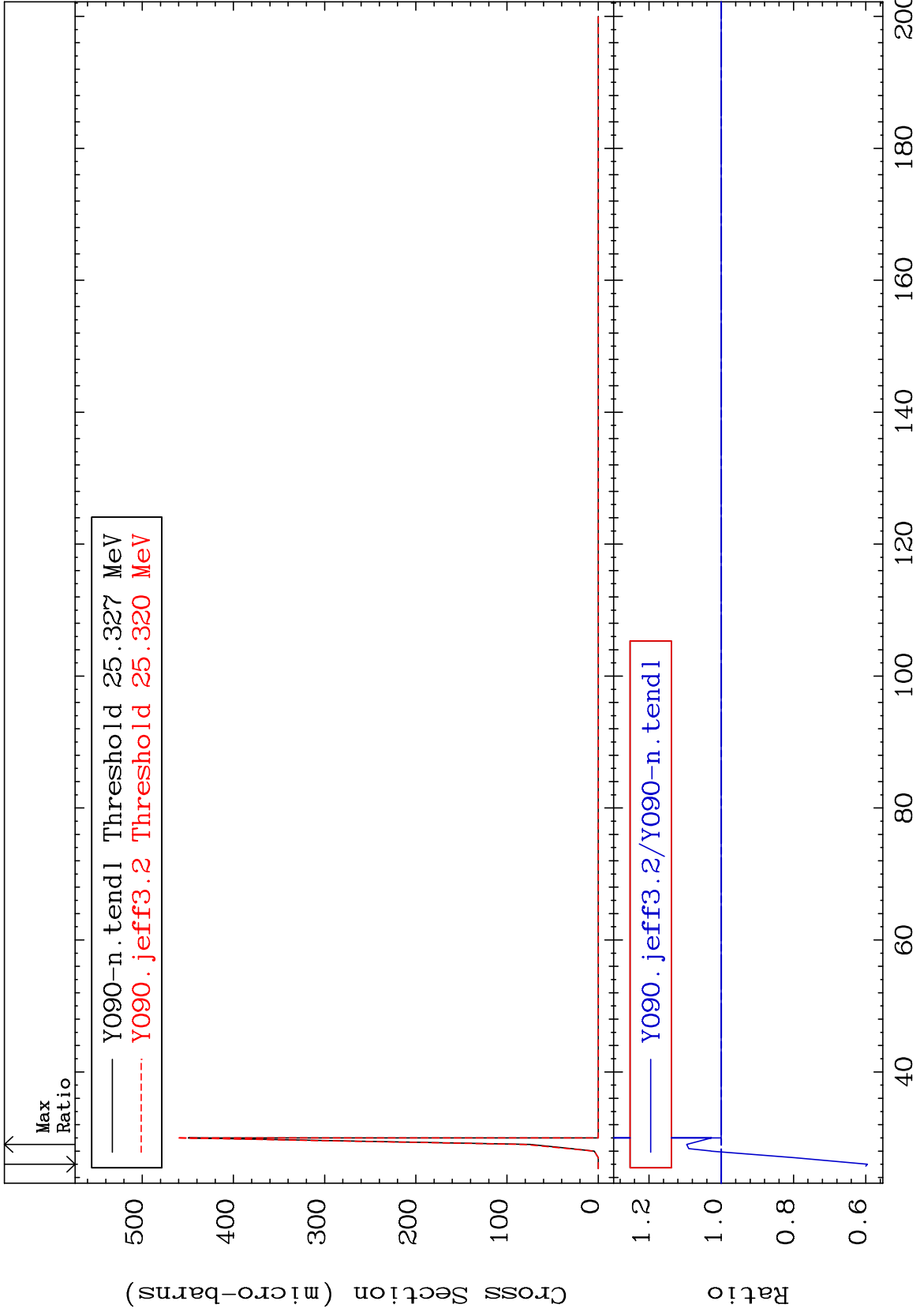




MAT 3928

(n,3n) p  
Cross Section

39-Y -90  
-40.47 To 9.563 %

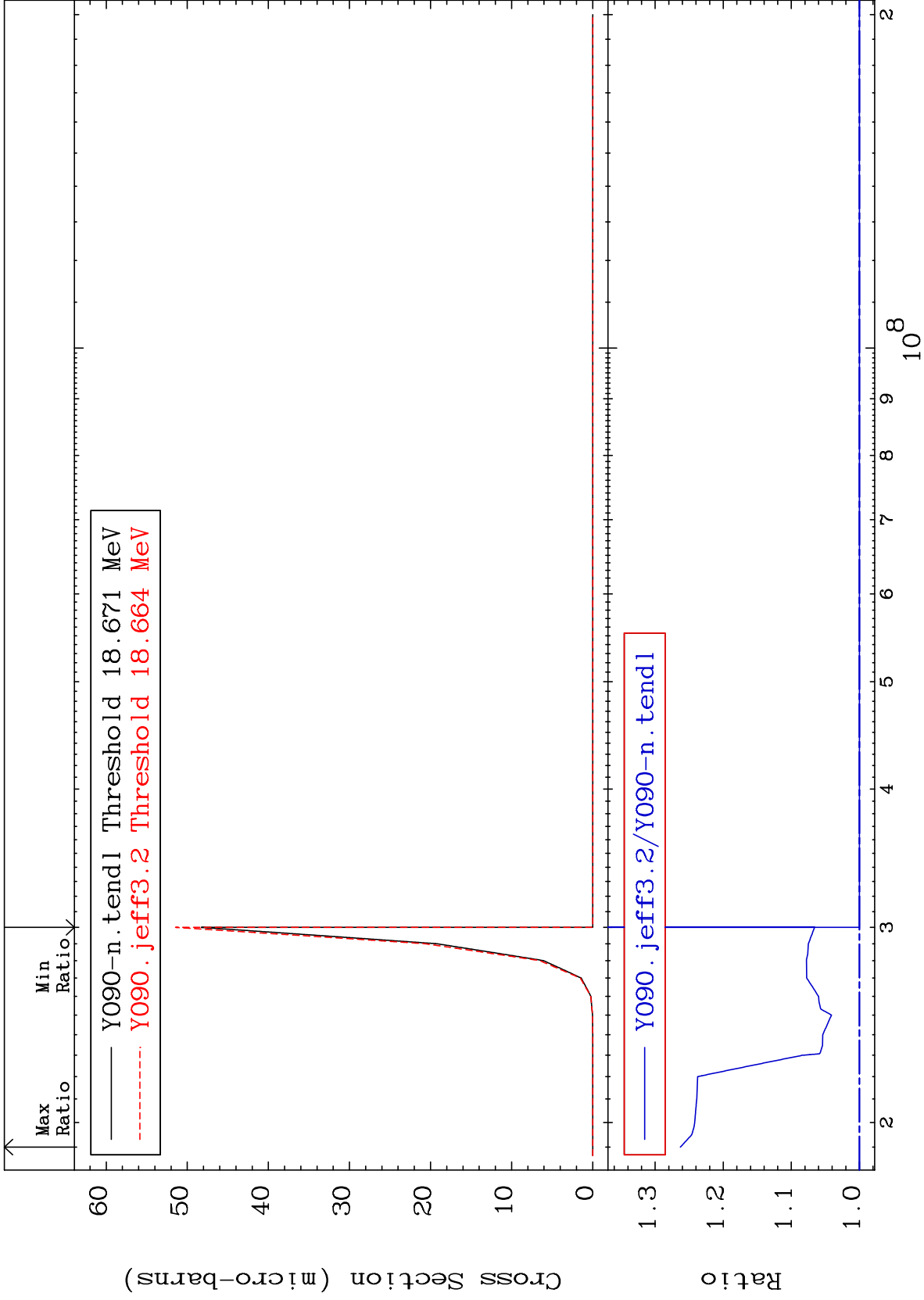


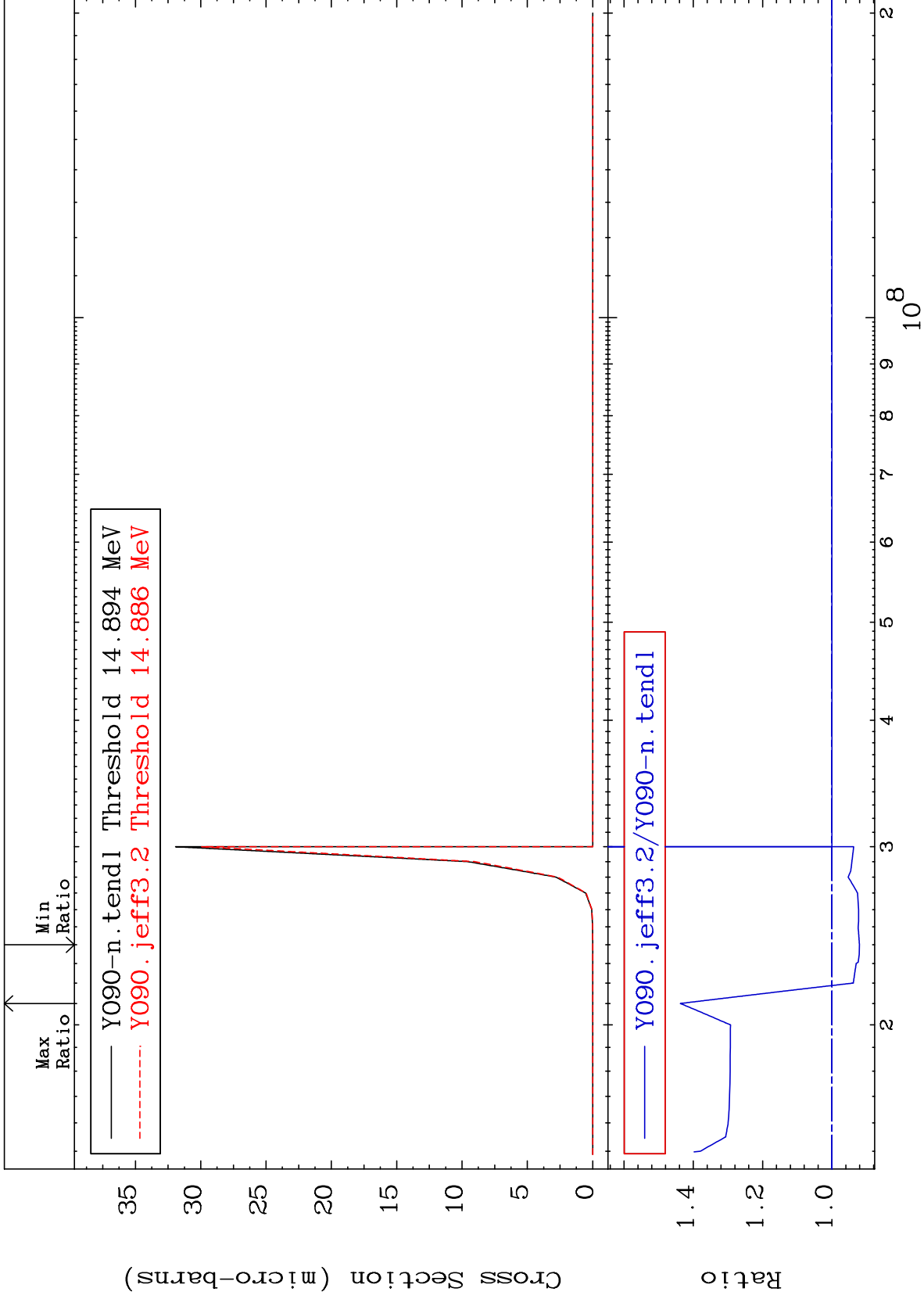


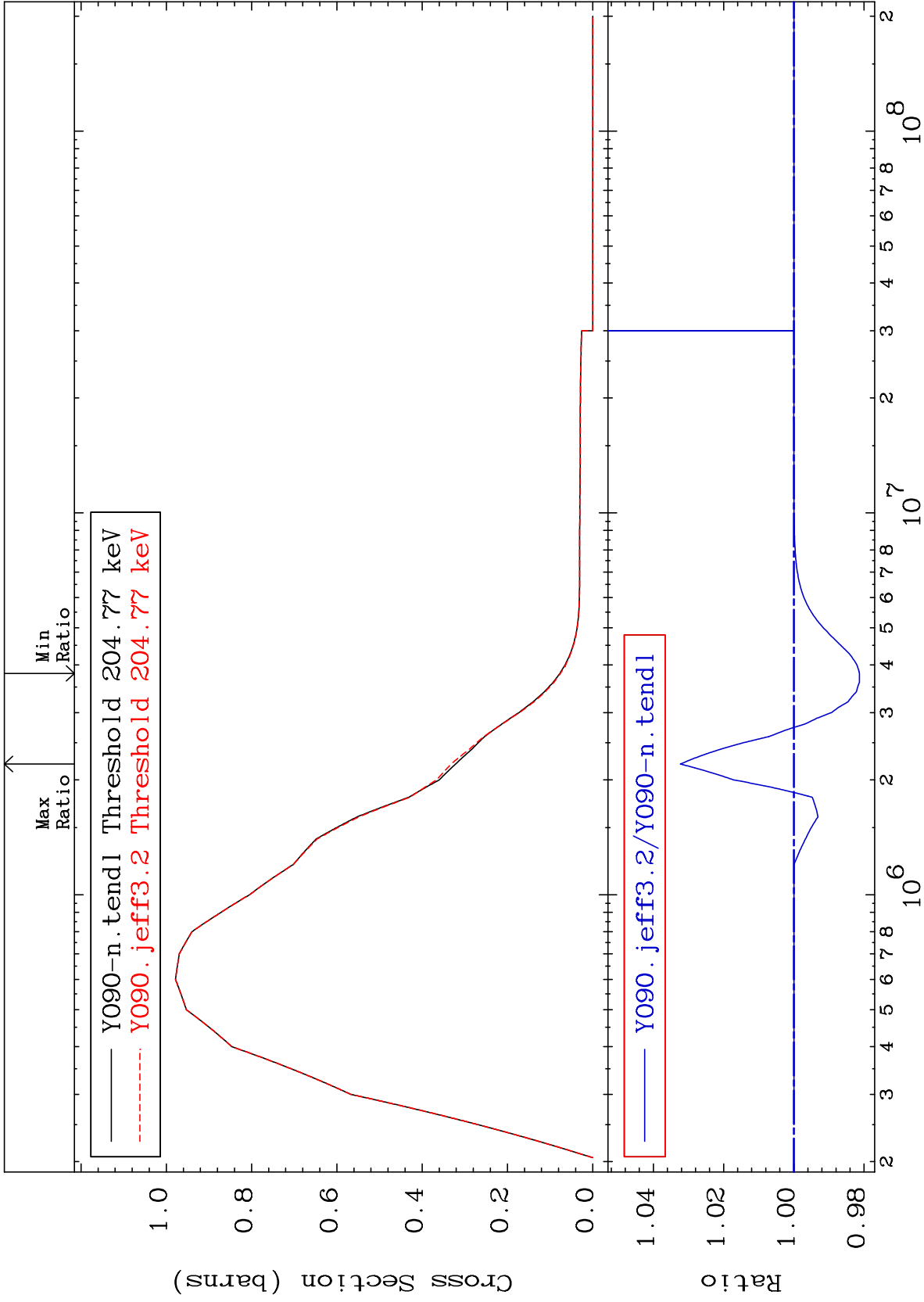
MAT 3928

(n,2n) p  
Cross Section

39-Y -90  
0.000 To 26.30 %



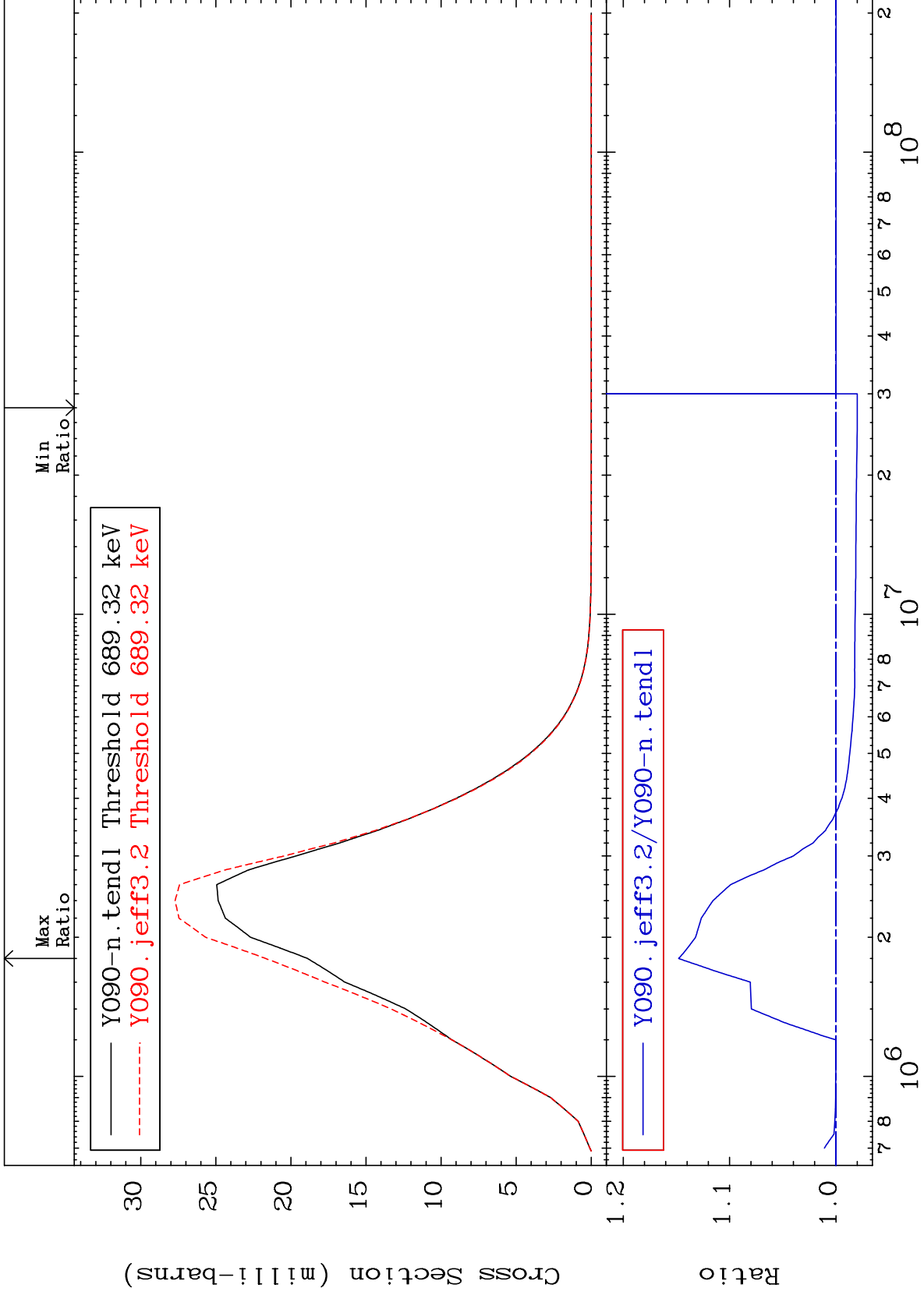




MAT 3928

681.7 keV (n,n') Level  
Cross Section

39-Y -90  
-2.001 To 14.79 %



20

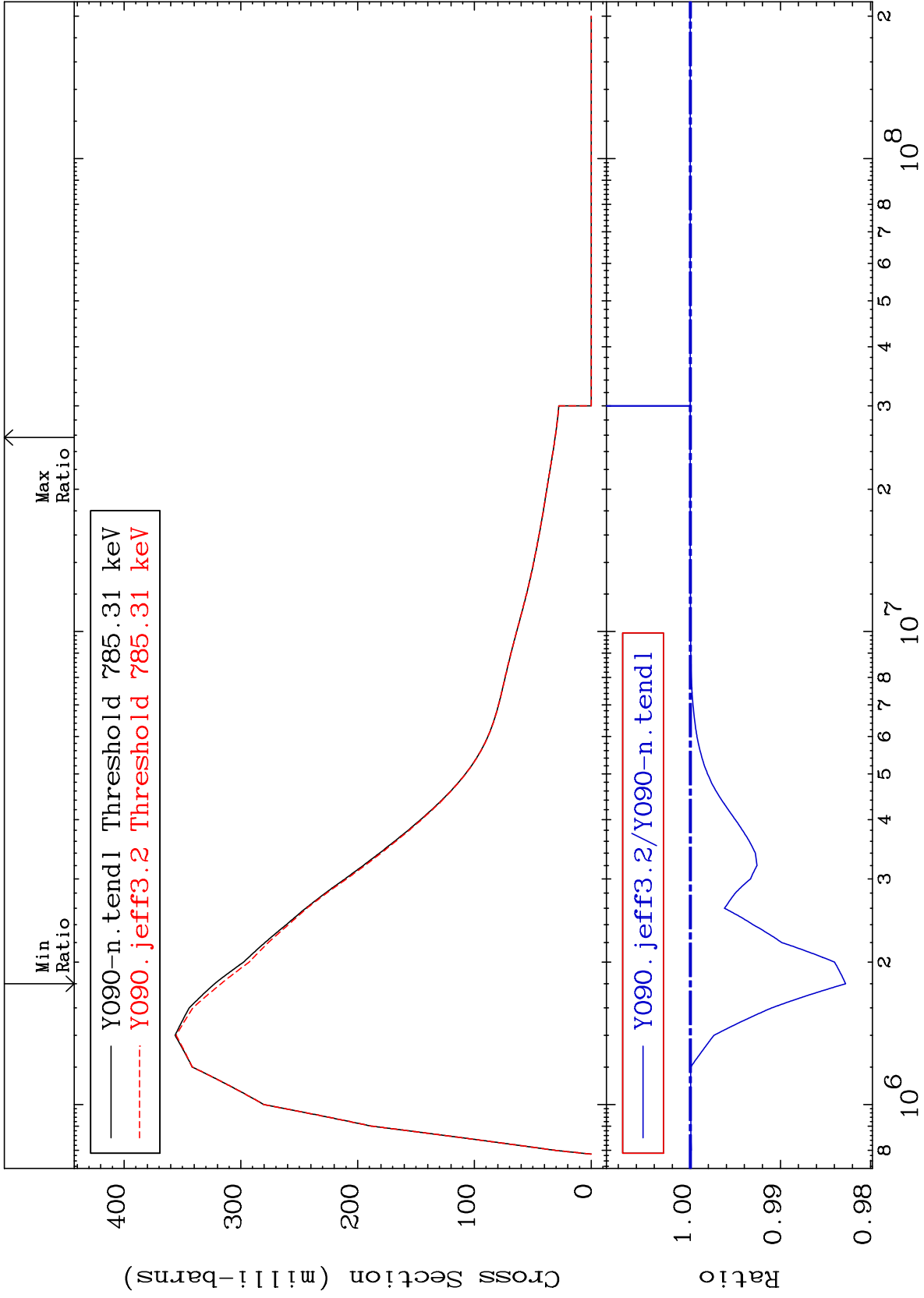
Incident Energy (eV)

39-Y -90

MAT 3928

776.6 keV (n,n') Level  
Cross Section

39-Y -90  
-1.723 To 0.000 %



21

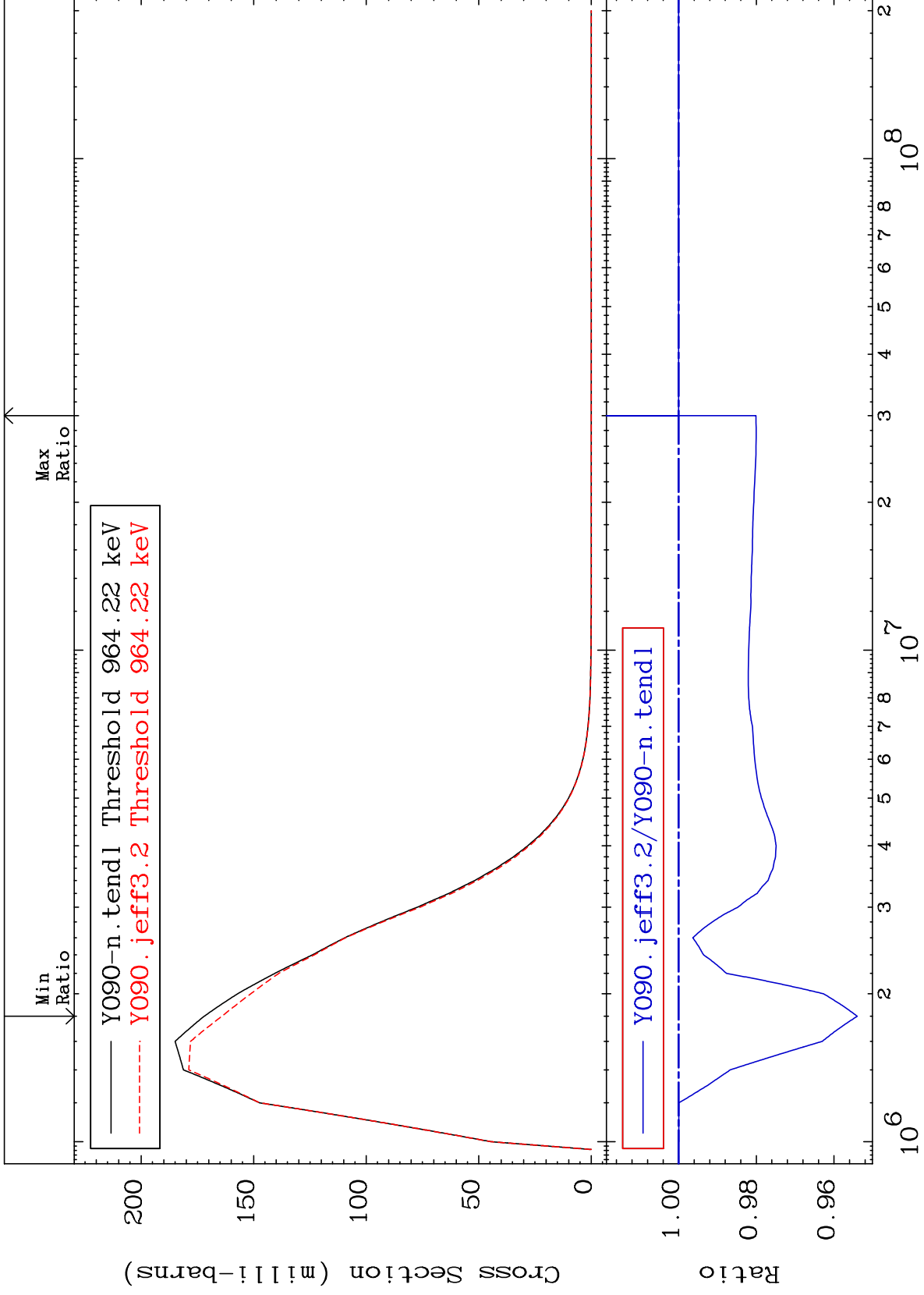
Incident Energy (eV)

39-Y -90

MAT 3928

953.5 keV (n,n') Level  
Cross Section

39-Y -90  
-4.598 To 0.000 %



22

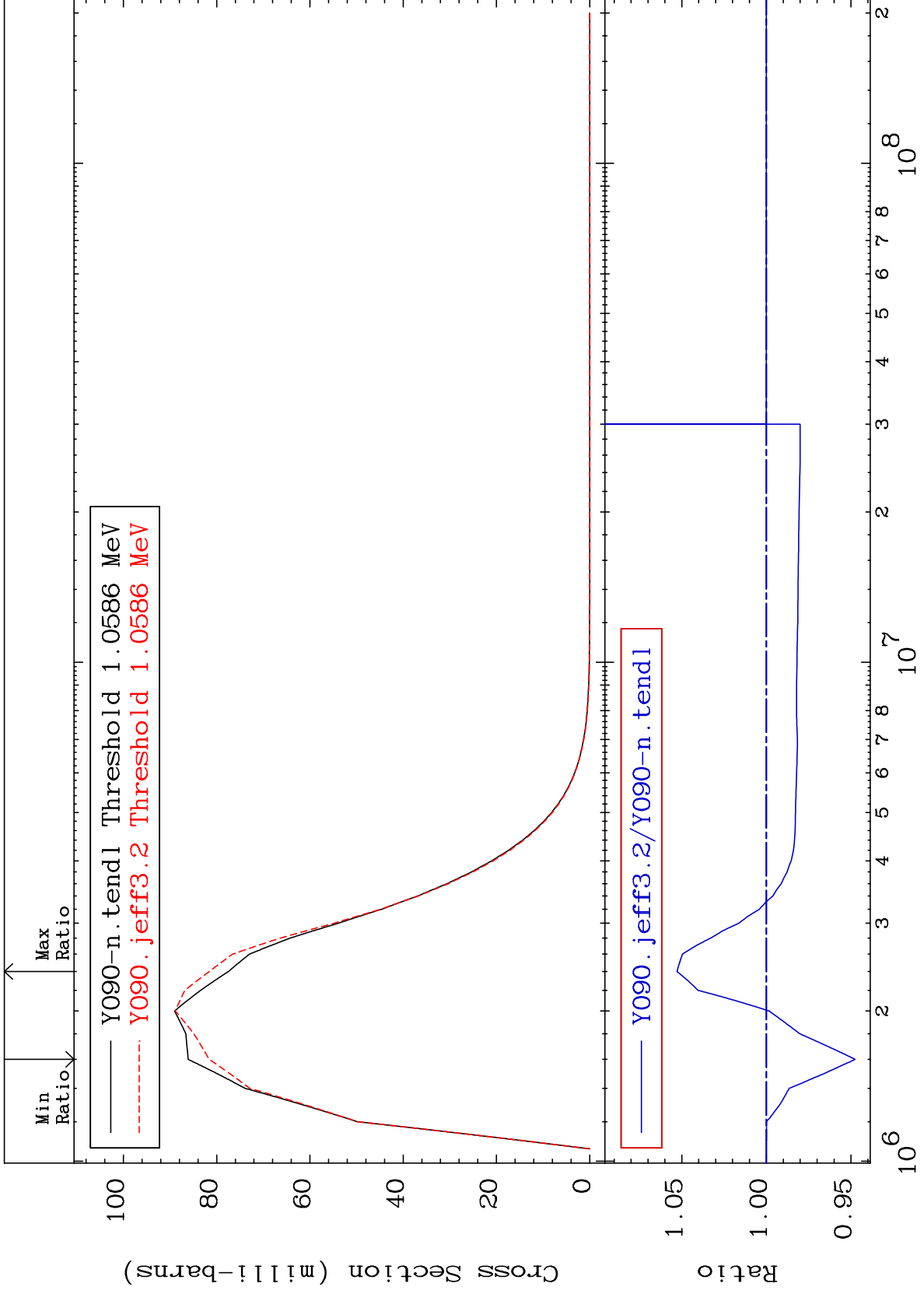
Incident Energy (eV)

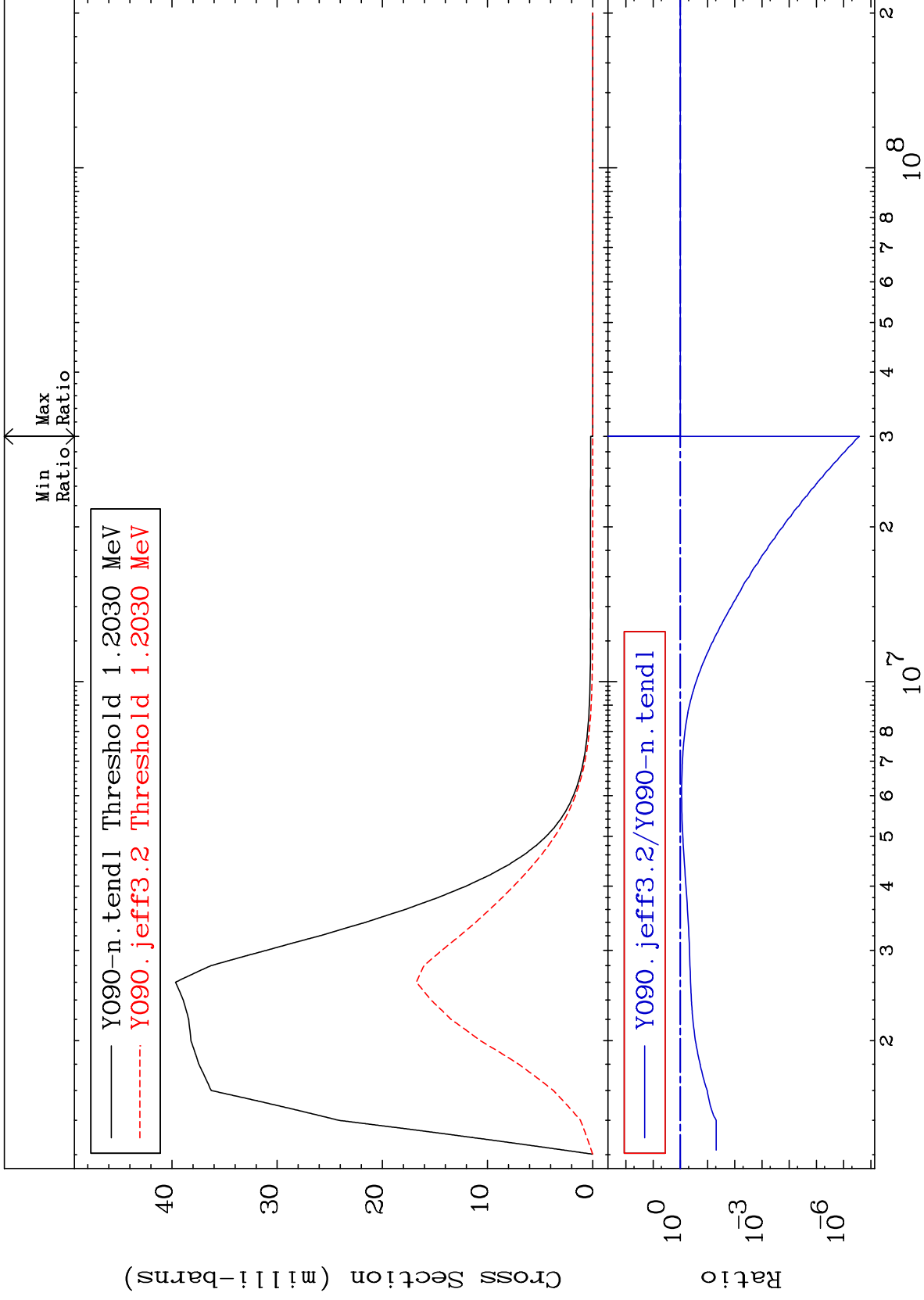
39-Y -90

MAT 3928

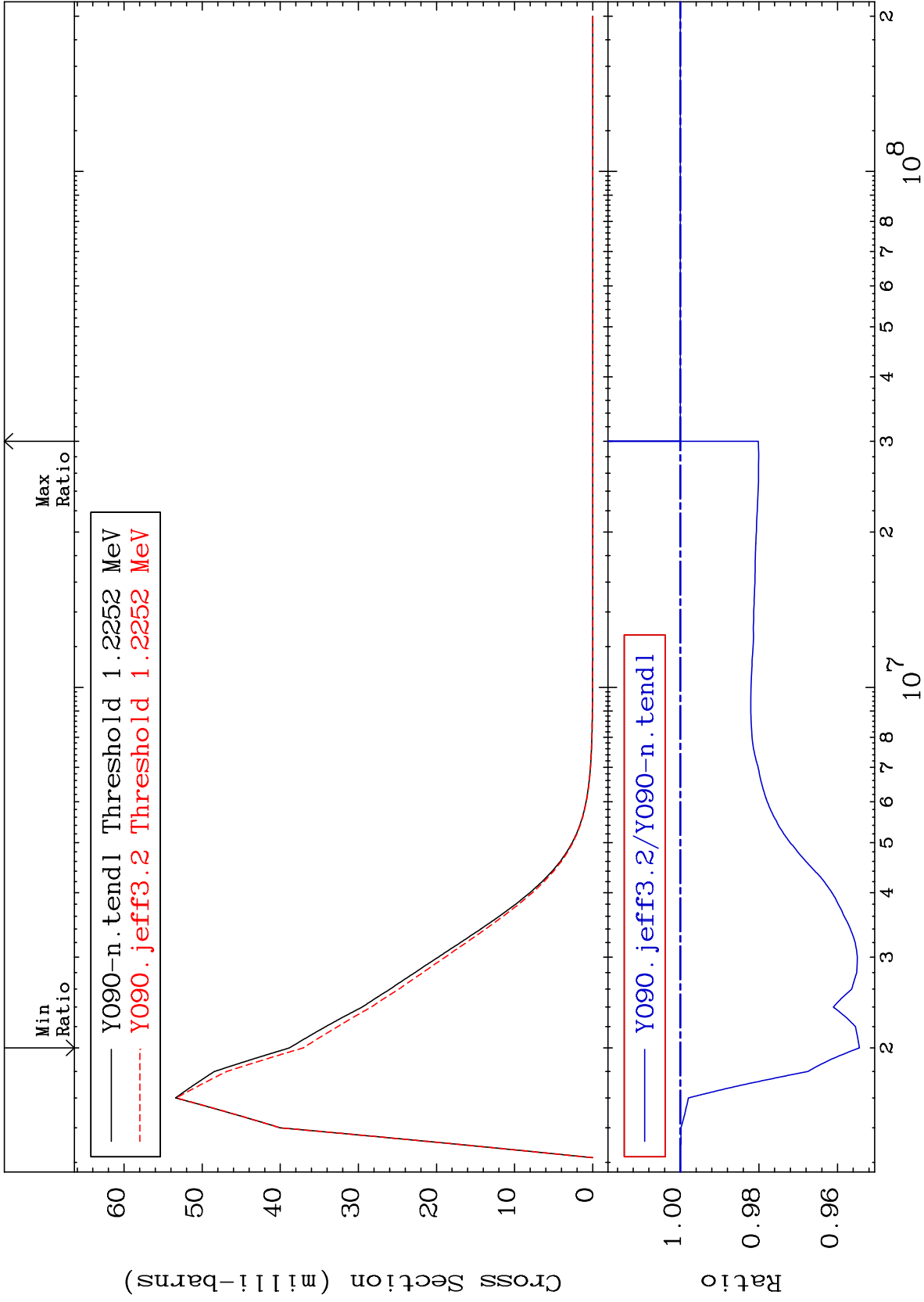
1.047 MeV (n,n') Level  
Cross Section

39-Y -90  
-5.245 To 5.289 %





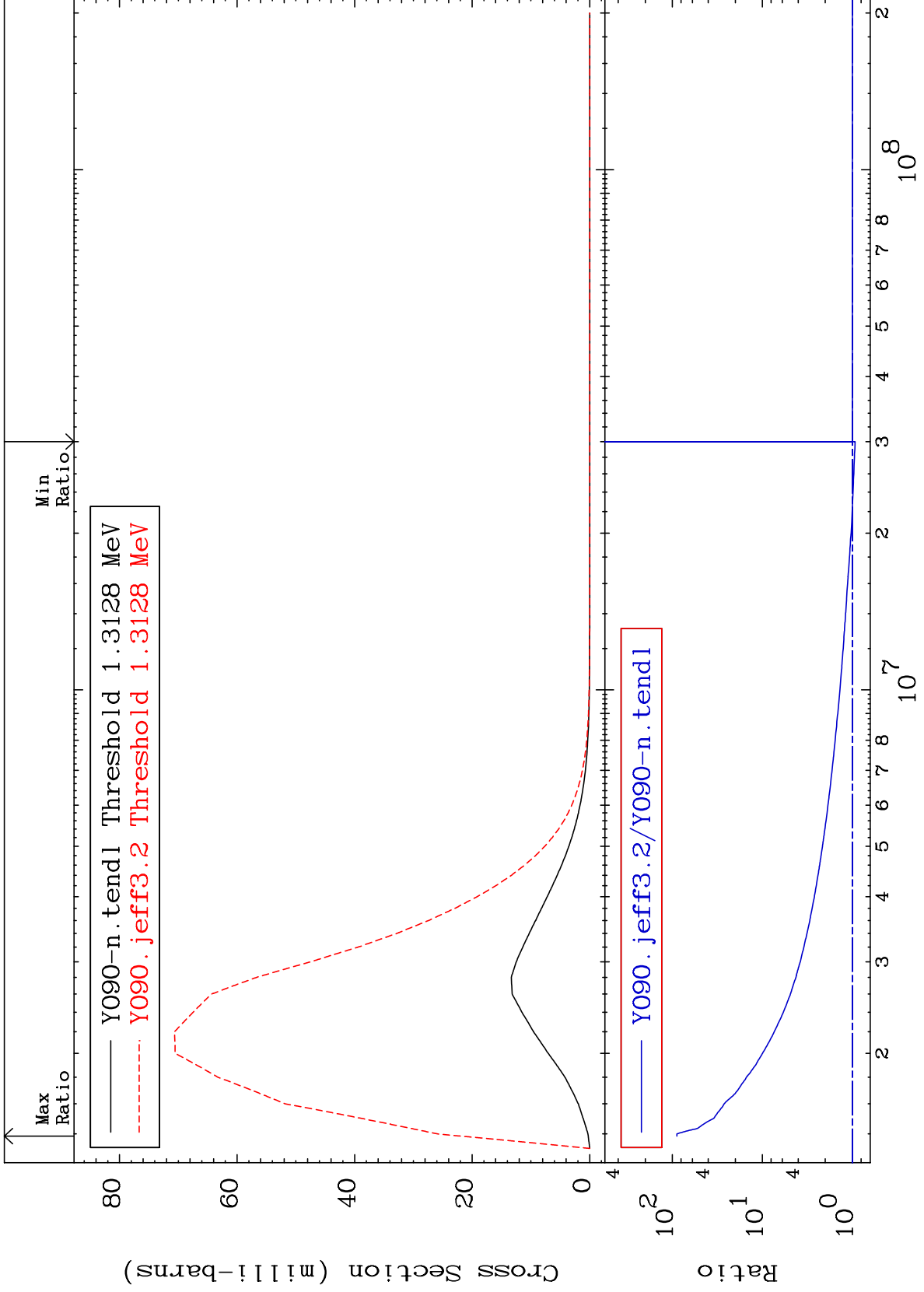




MAT 3928

1.298 MeV (n,n') Level  
Cross Section

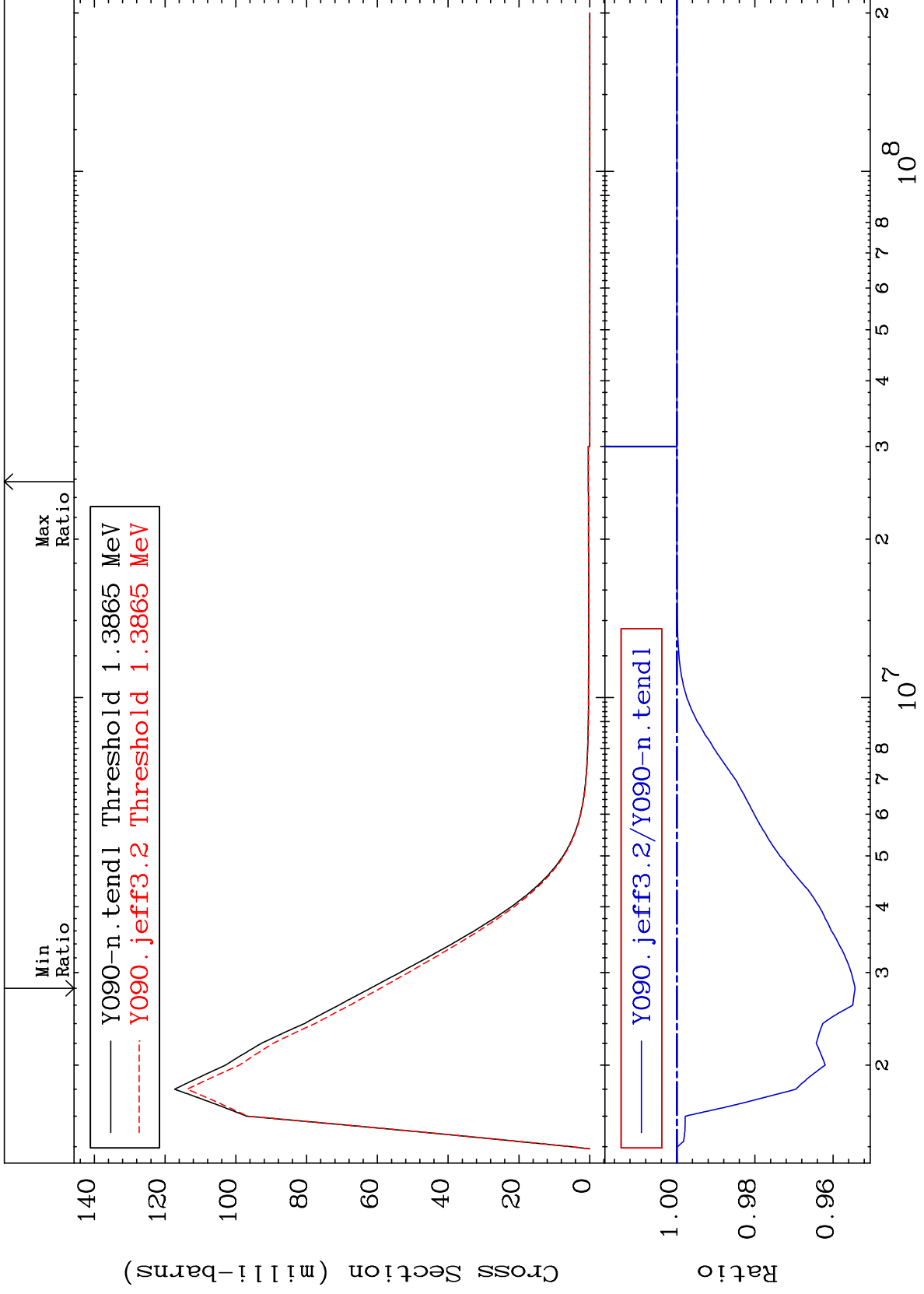
39-Y -90  
-6.670 To 8806. %



MAT 3928

1.371 MeV (n,n') Level  
Cross Section

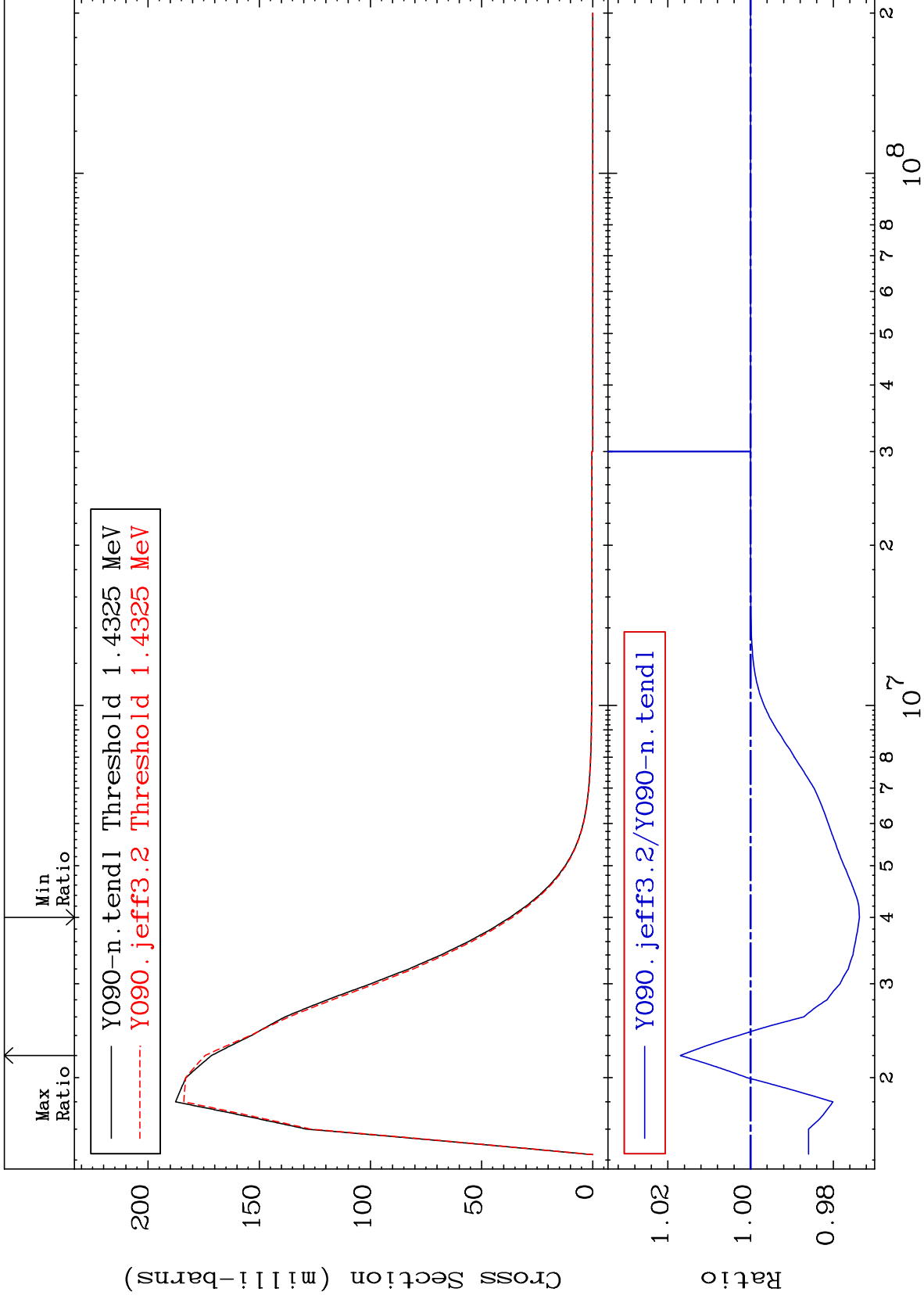
39-Y -90  
-4.565 To 0.000 %

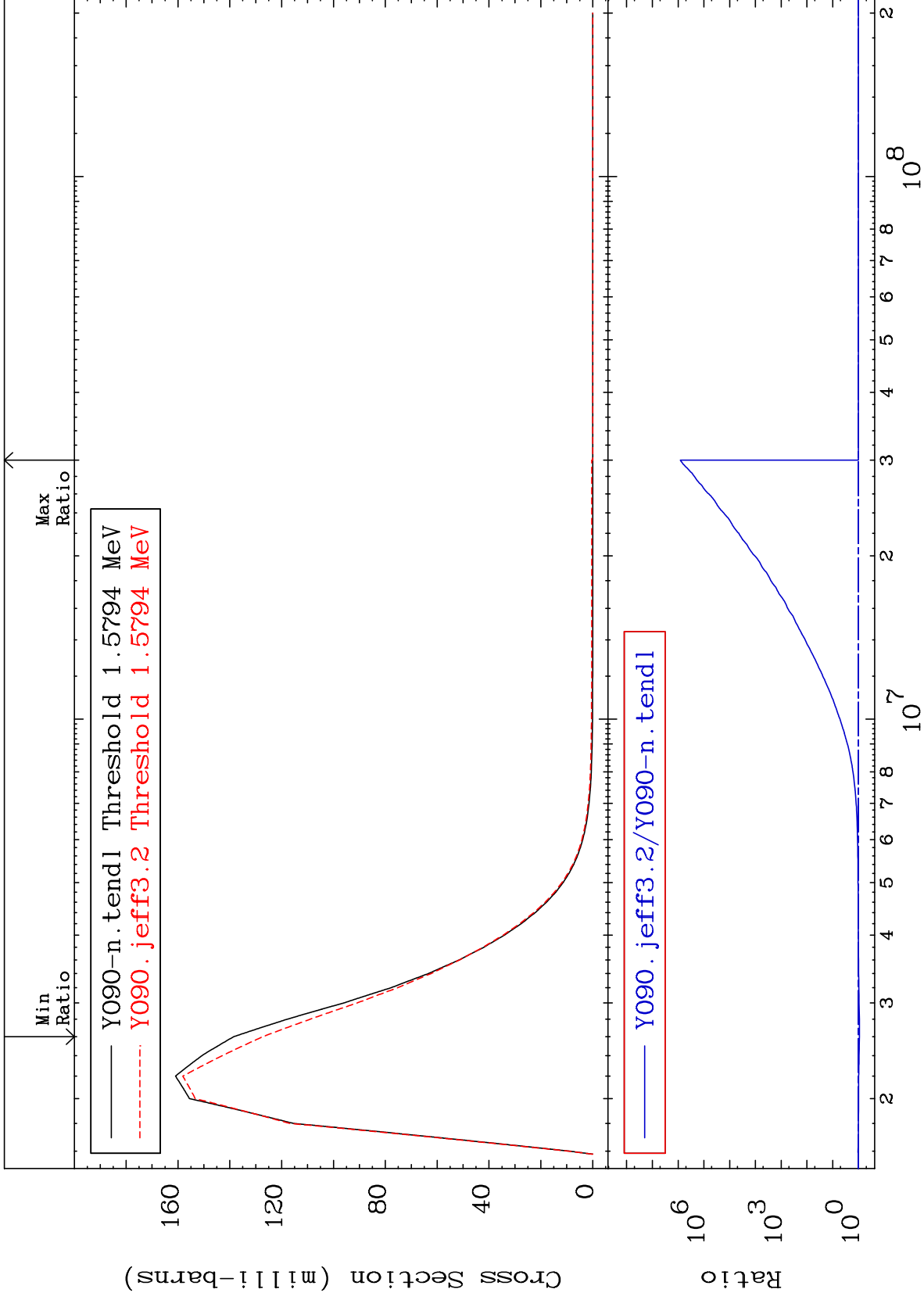


MAT 3928

1.417 MeV (n,n') Level  
Cross Section

39-Y -90  
-2.632 To 1.698 %

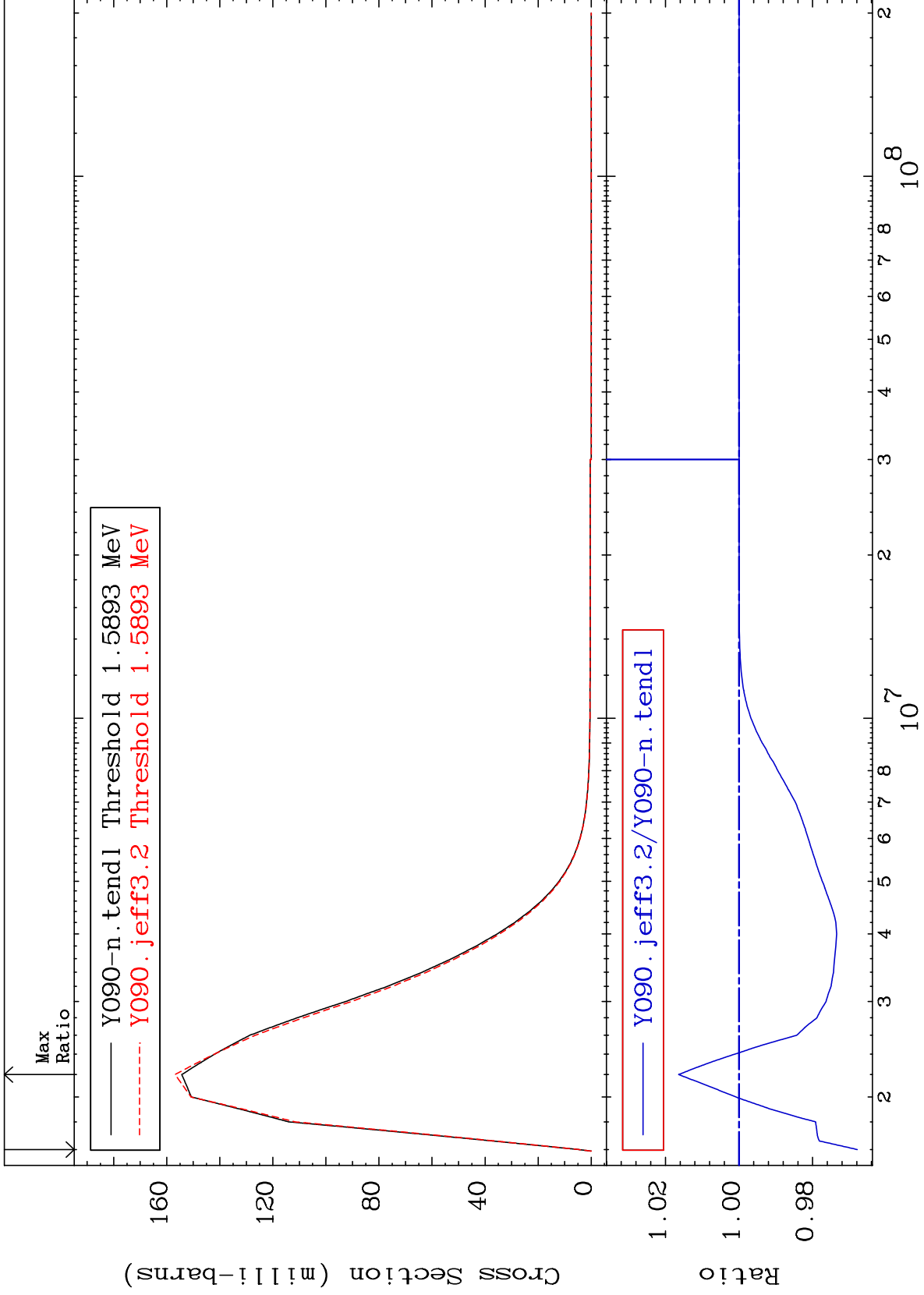




MAT 3928

1.572 MeV (n,n') Level  
Cross Section

39-Y -90  
-3.214 To 1.641 %



30

Incident Energy (eV)

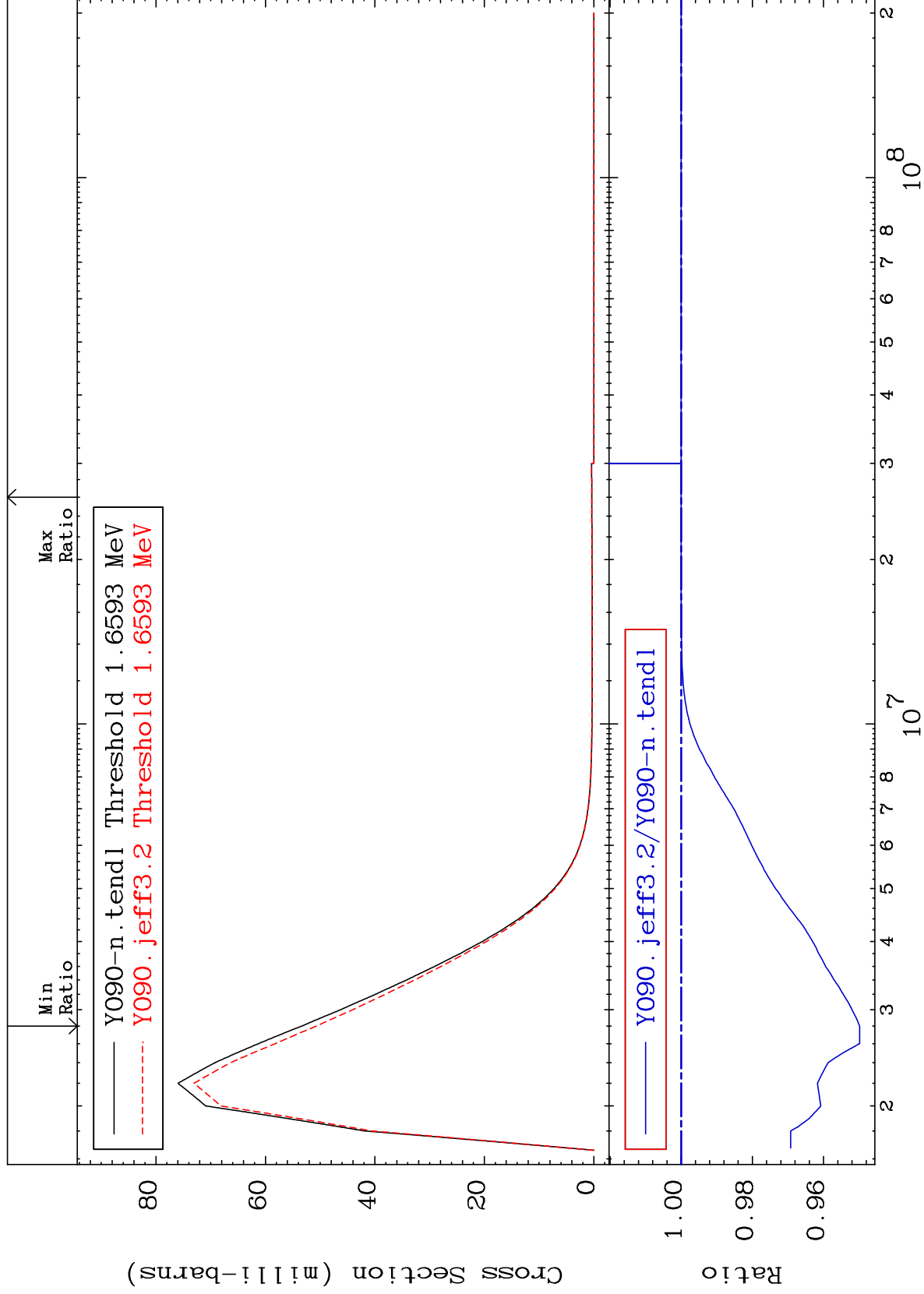
39-Y -90

MAT 3928

1.641 MeV (n,n') Level

39-Y -90

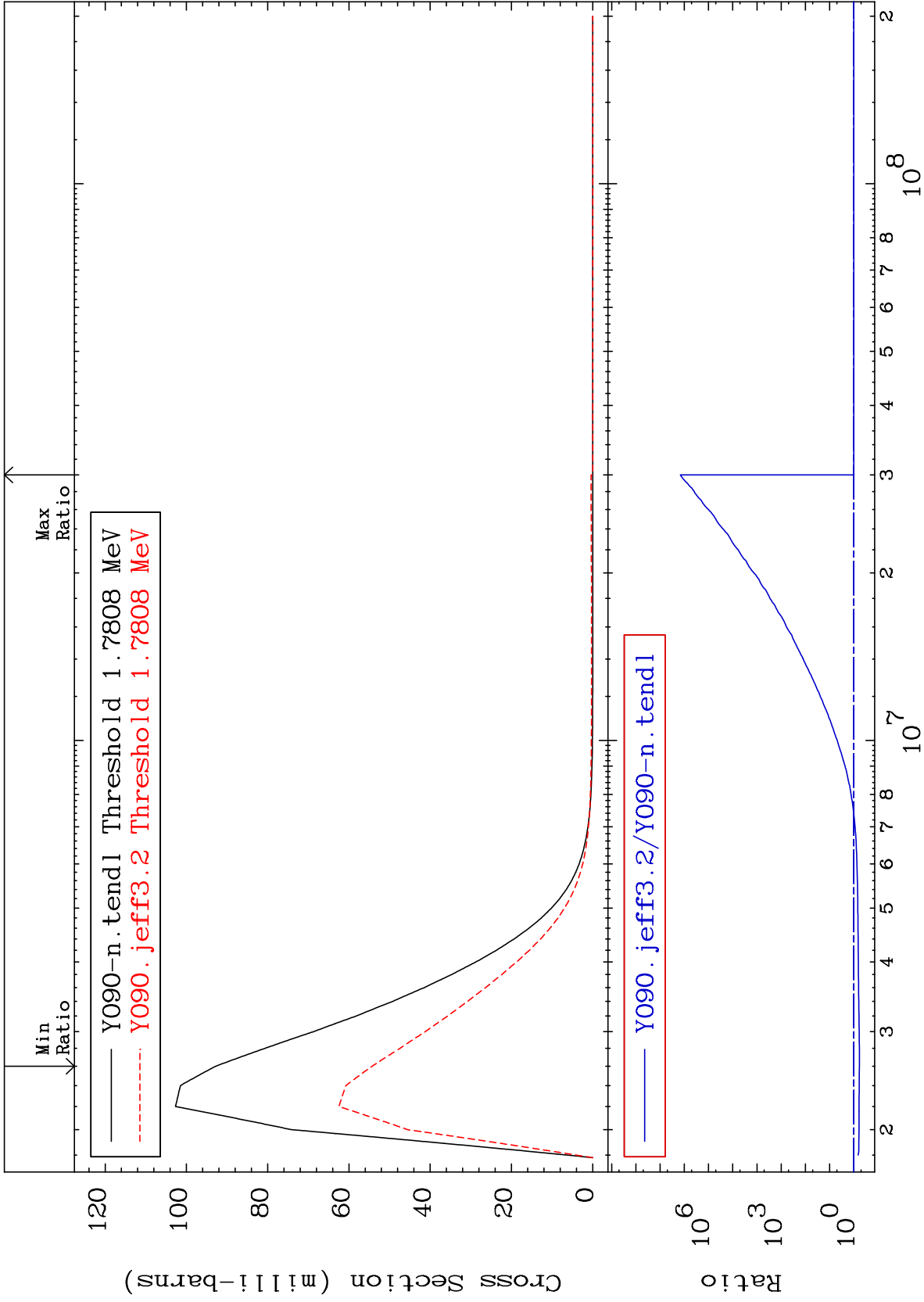
-5.014 To 0.000 %



31

Incident Energy (eV)

39-Y -90

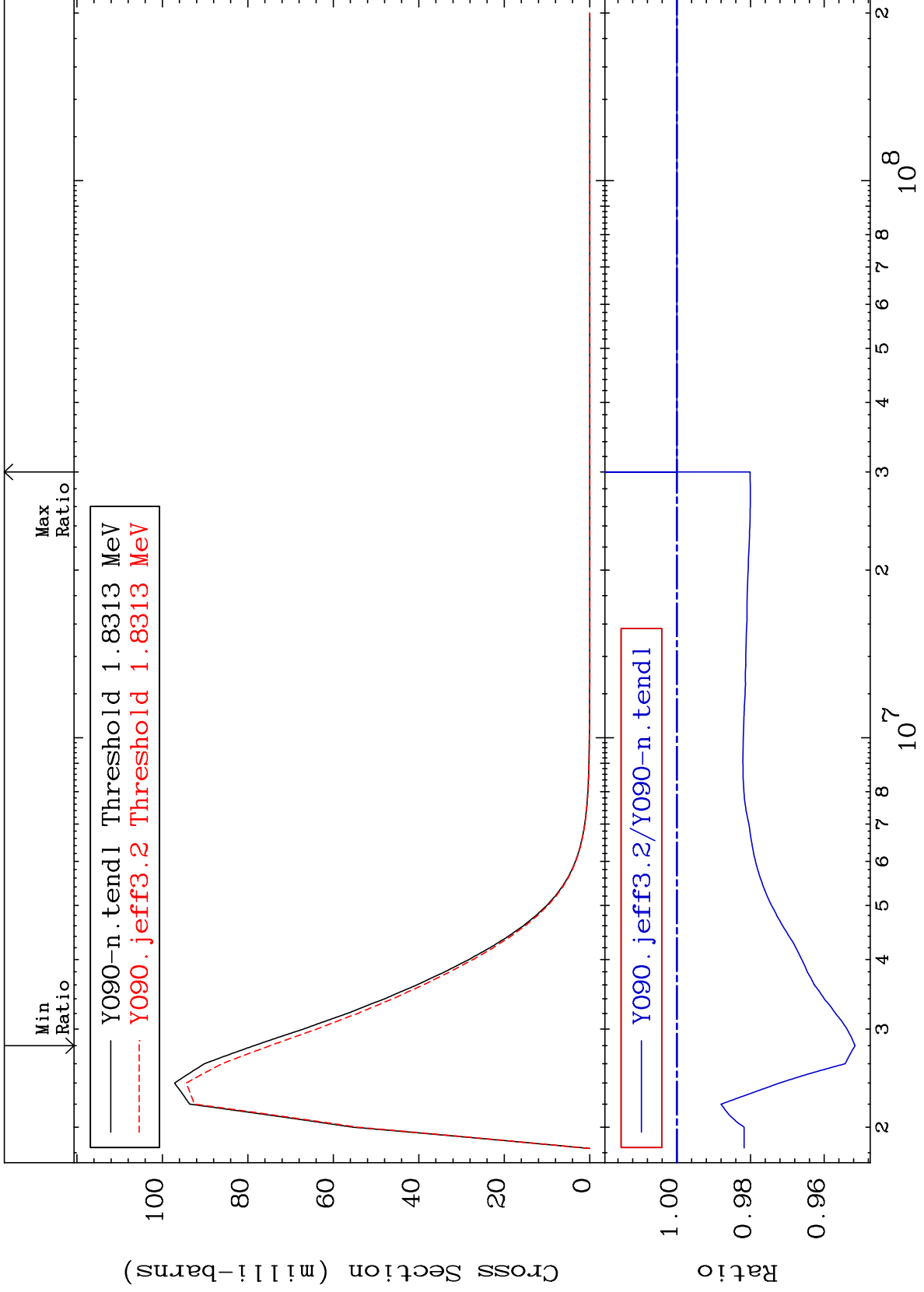




MAT 3928

1.811 MeV (n,n') Level  
Cross Section

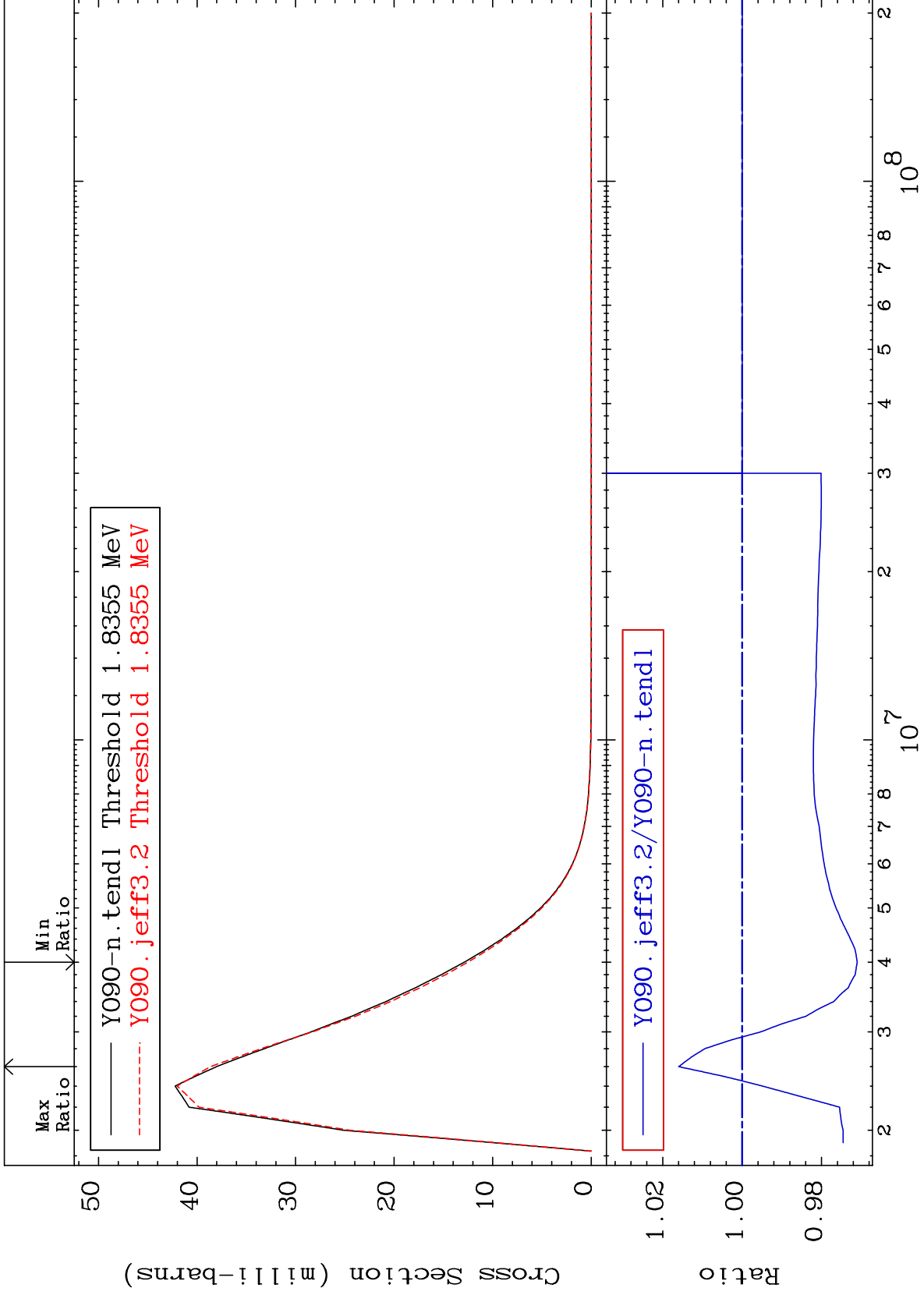
39-Y -90  
-4.839 To 0.000 %



MAT 3928

1.815 MeV (n,n') Level  
Cross Section

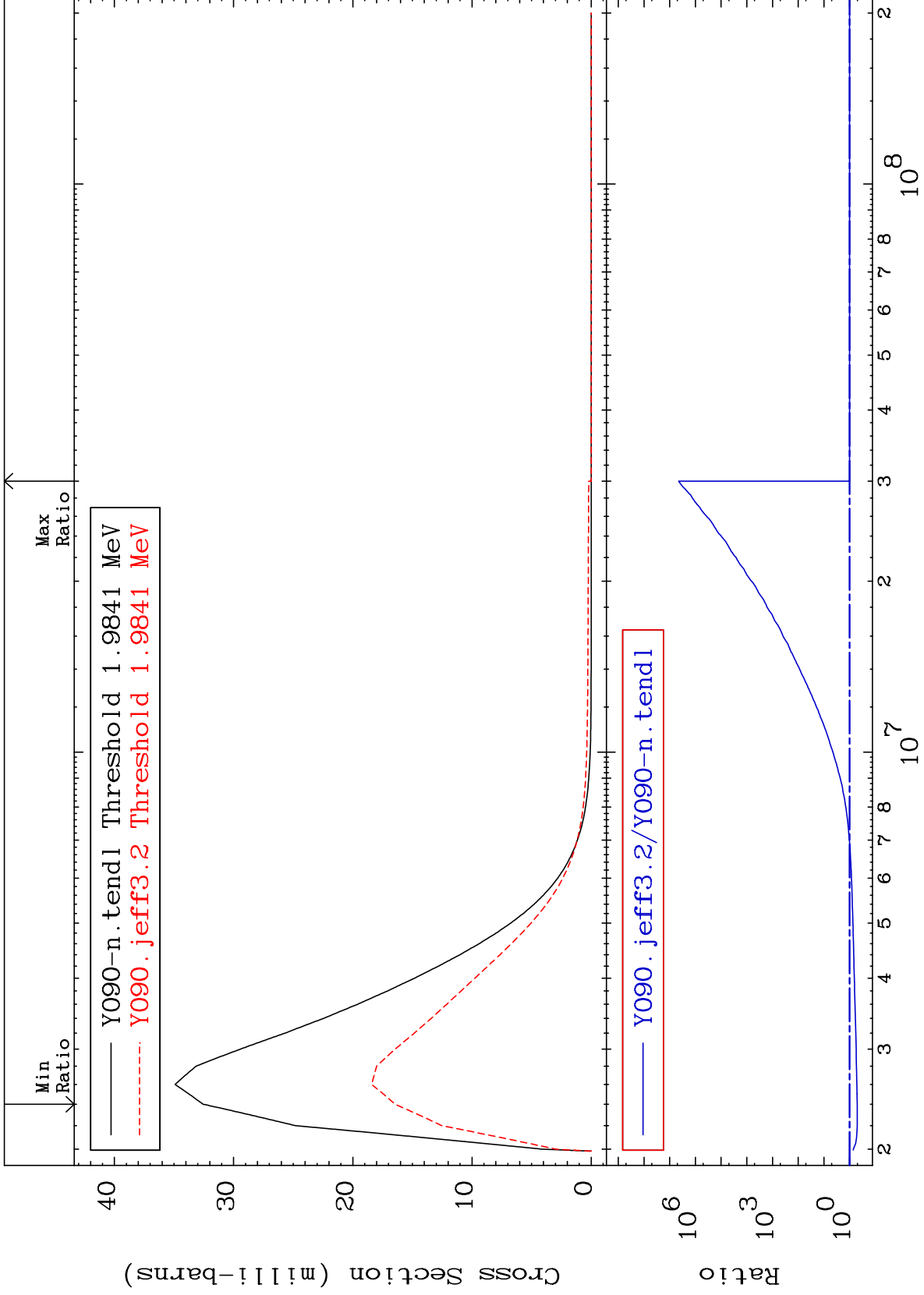
39-Y -90  
-2.899 To 1.600 %



MAT 3928

1.962 MeV (n,n') Level  
Cross Section

39-Y -90  
-49.49 To 9999. %



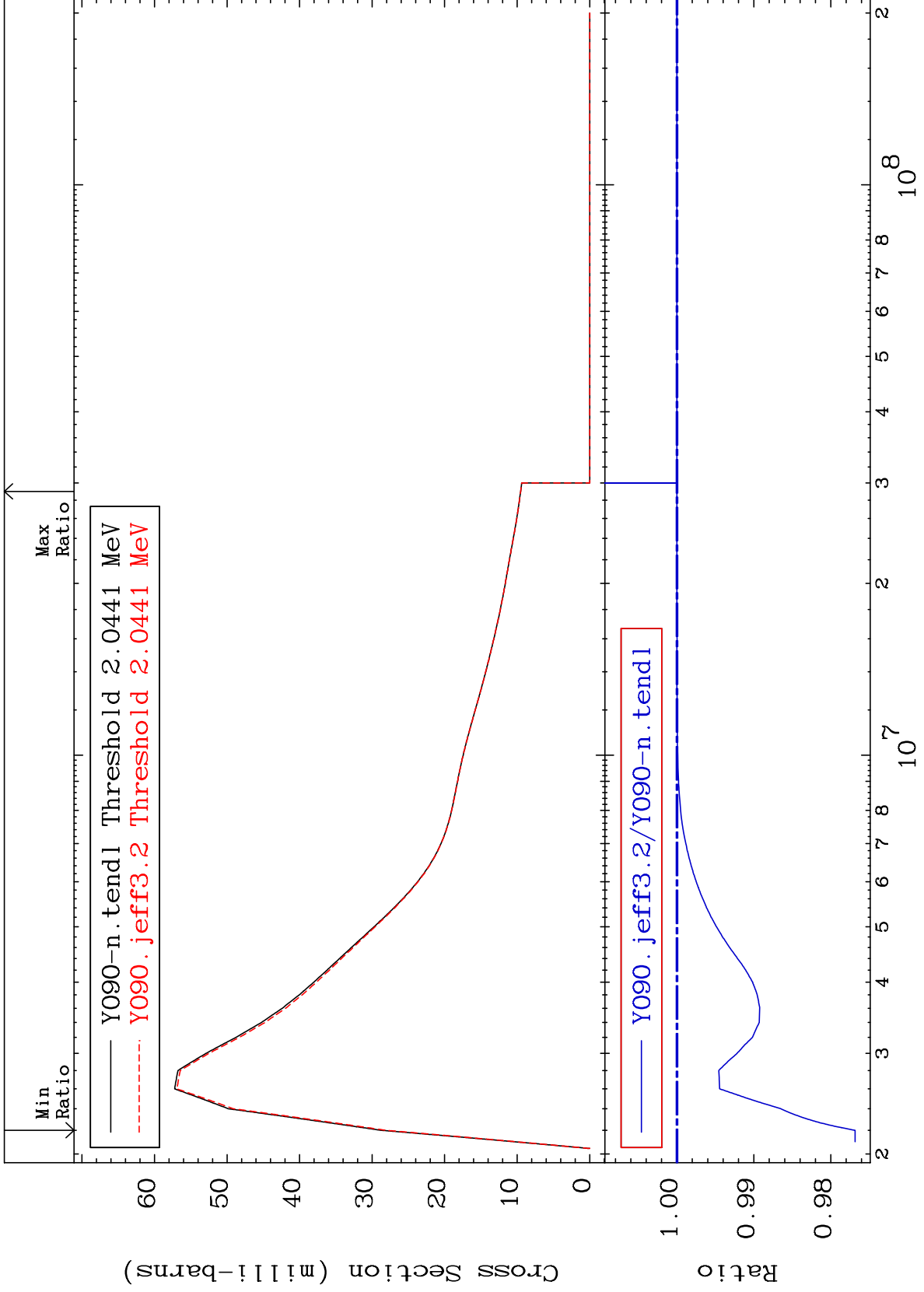
35

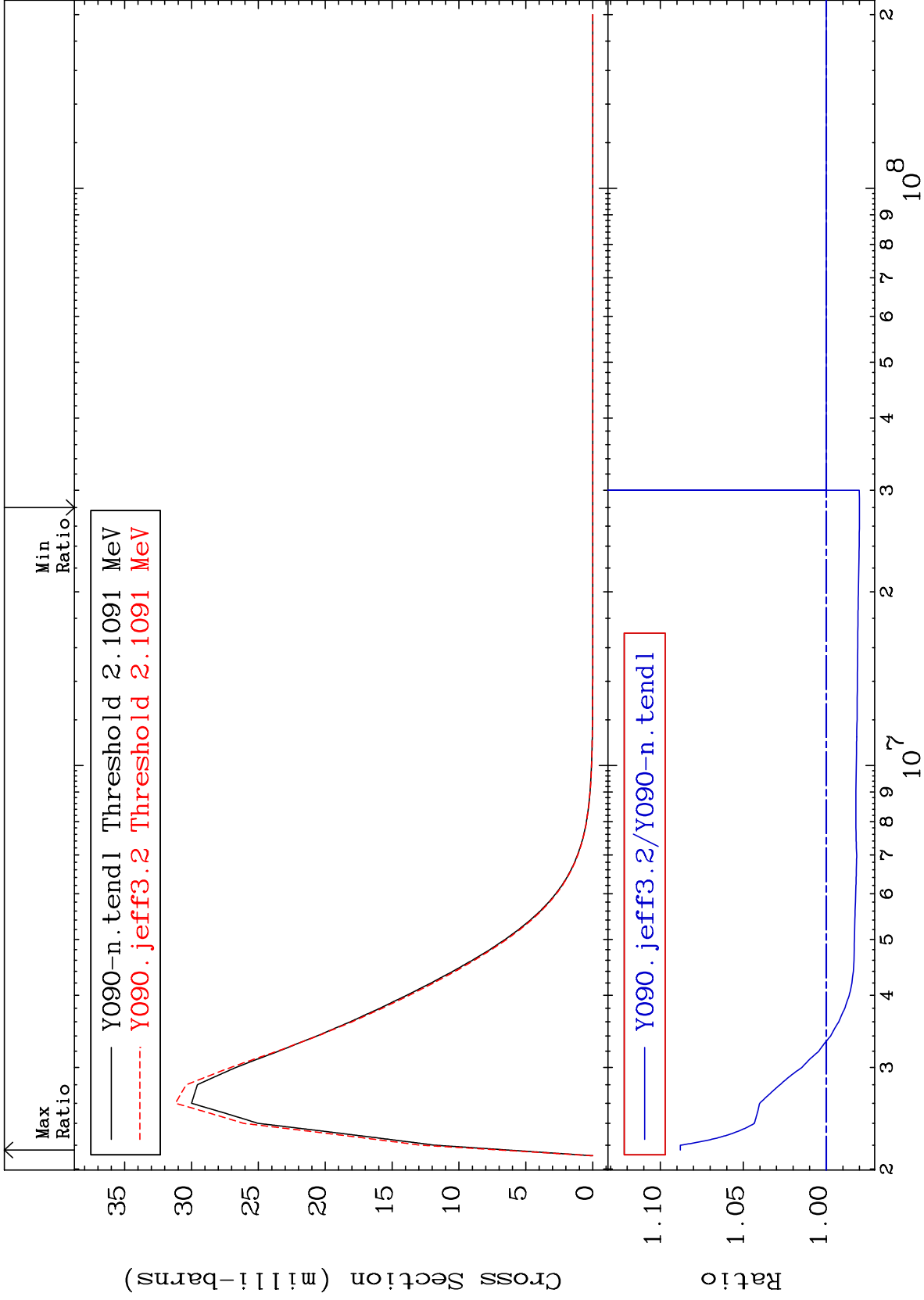
39-Y -90

MAT 3928

2.021 MeV (n,n') Level  
Cross Section

39-Y -90  
-2.315 To 0.000 %

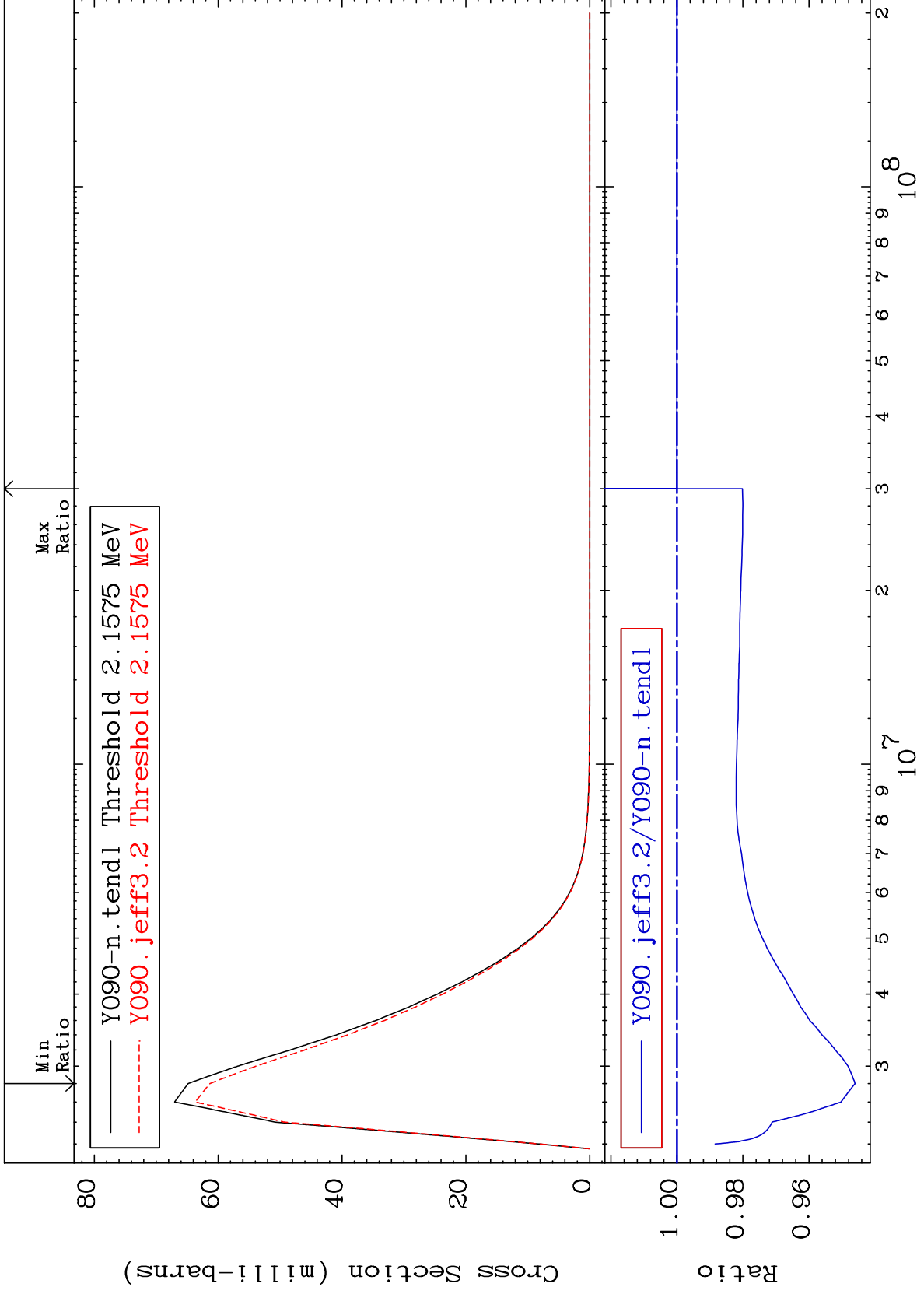


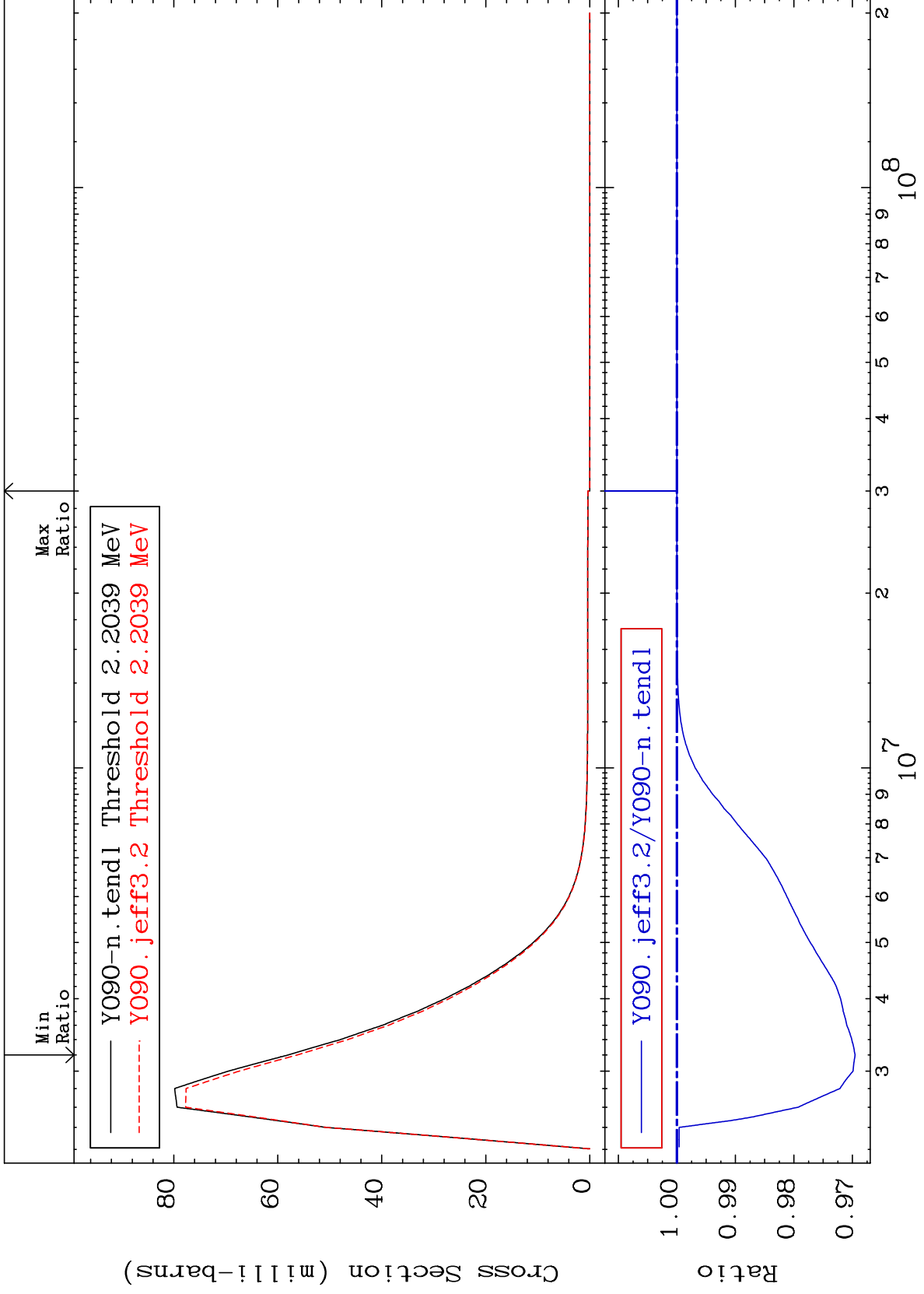


MAT 3928

2.134 MeV (n,n') Level  
Cross Section

39-Y -90  
-5.397 To 0.000 %

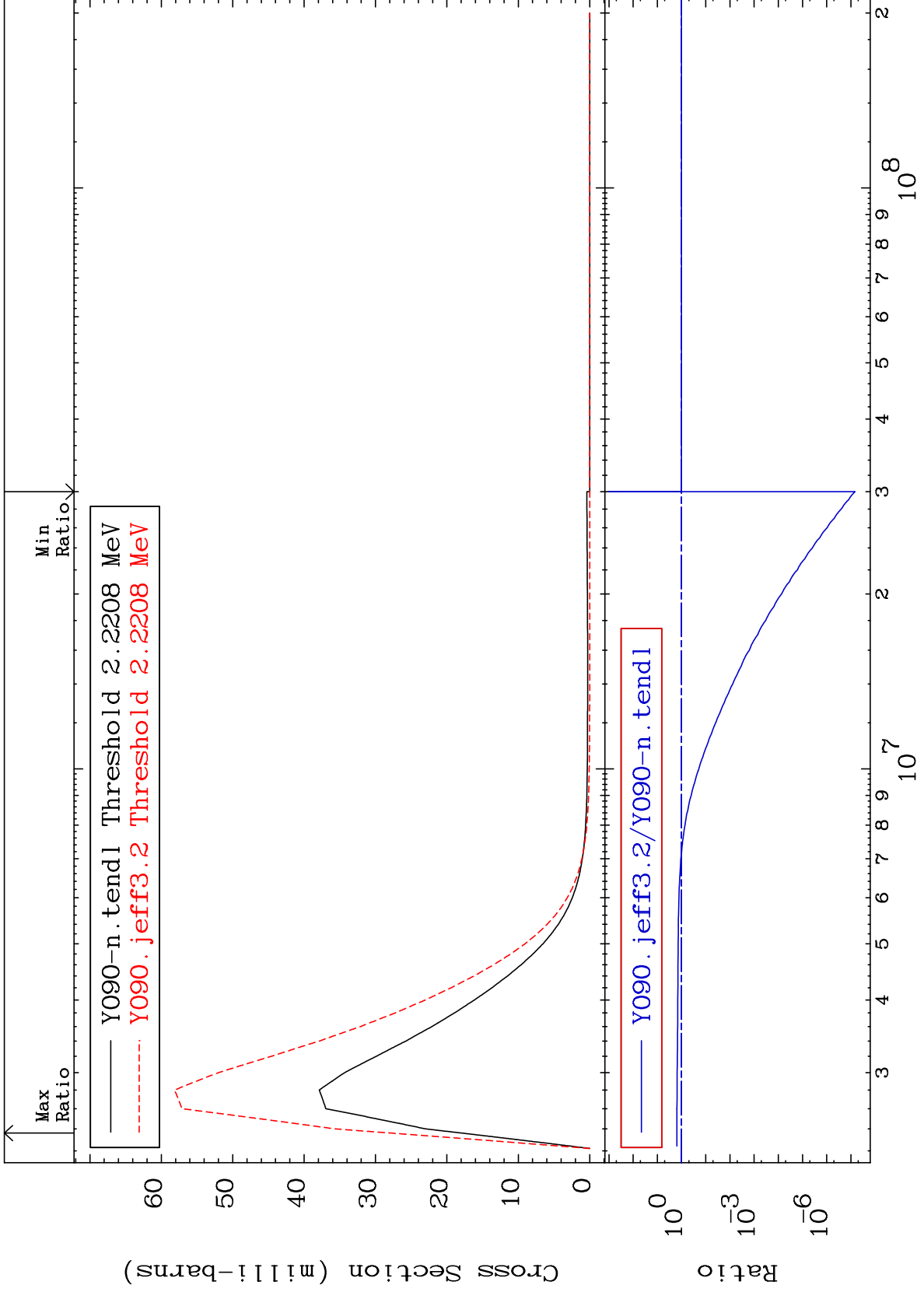




MAT 3928

2.196 MeV (n,n') Level  
Cross Section

39-Y -90  
-100.0 To 55.24 %

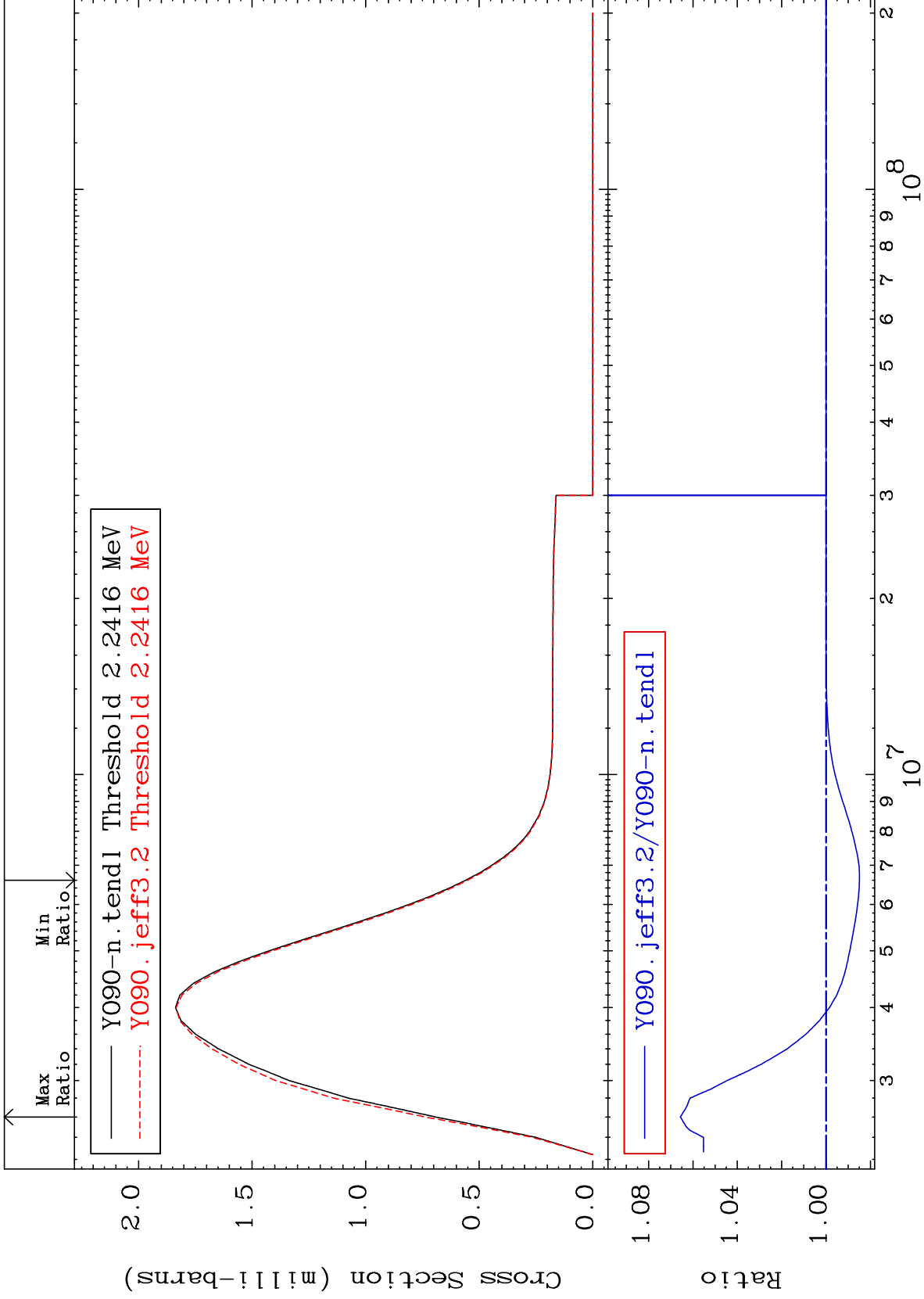


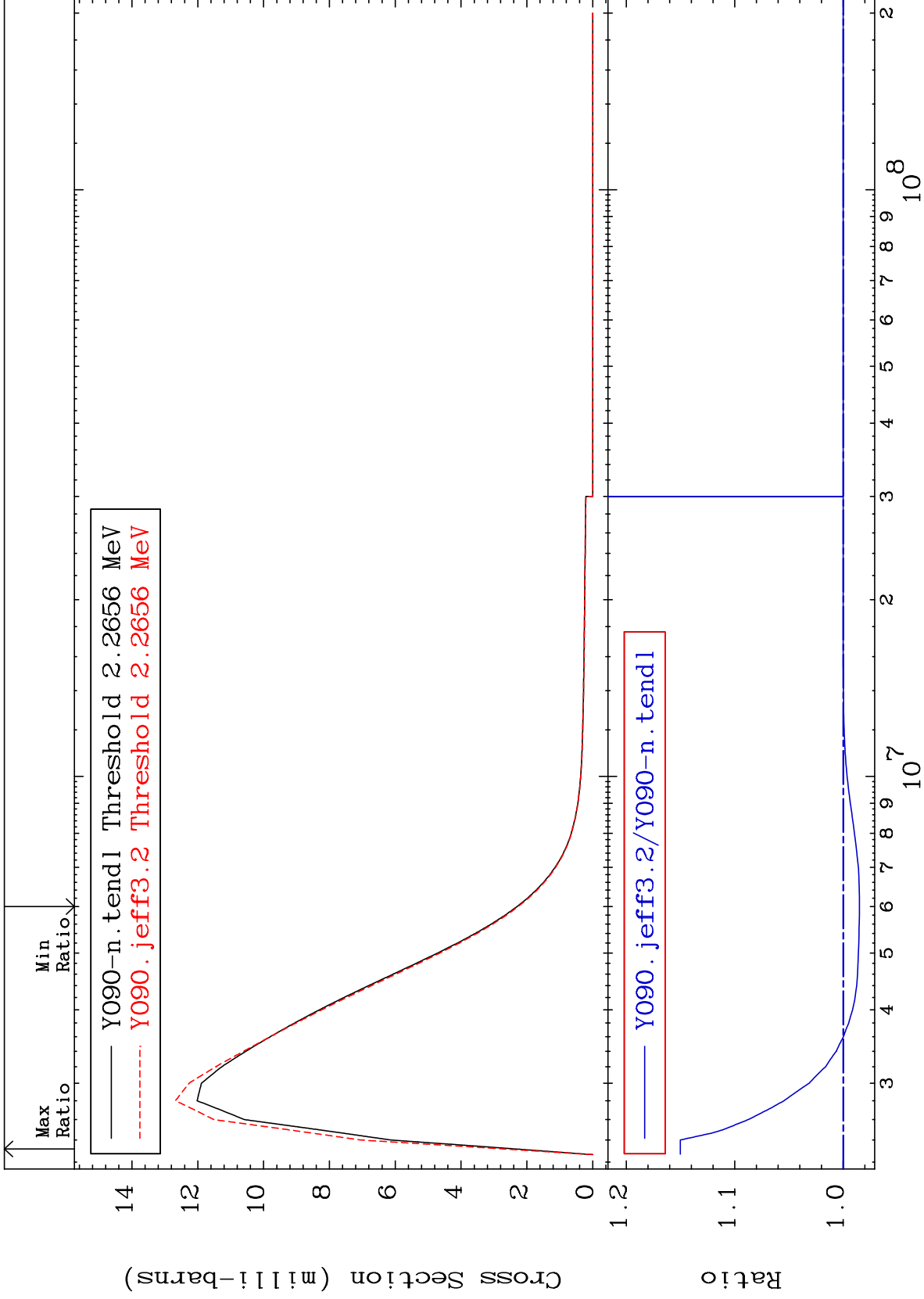
40

Incident Energy (eV)

39-Y -90



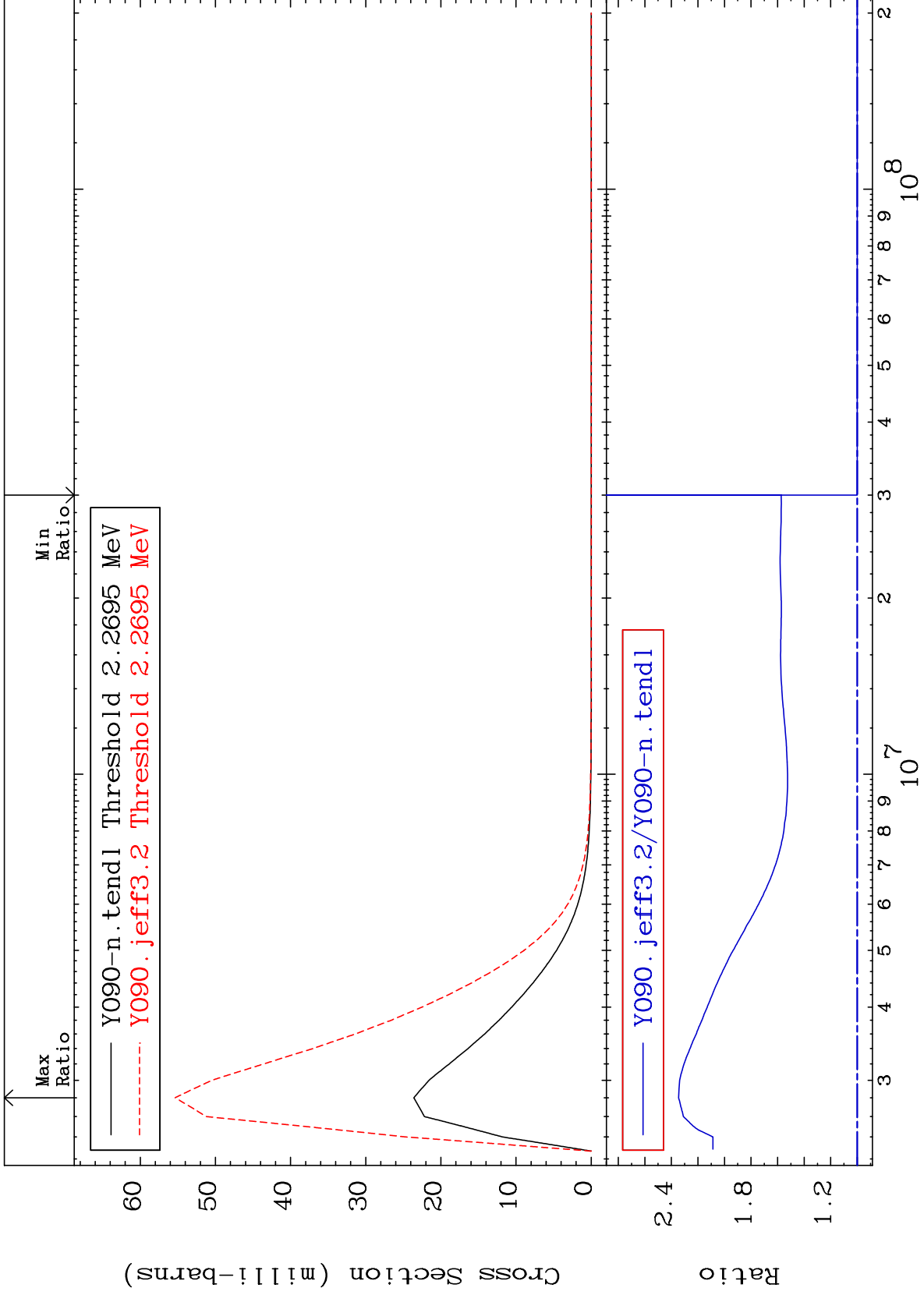


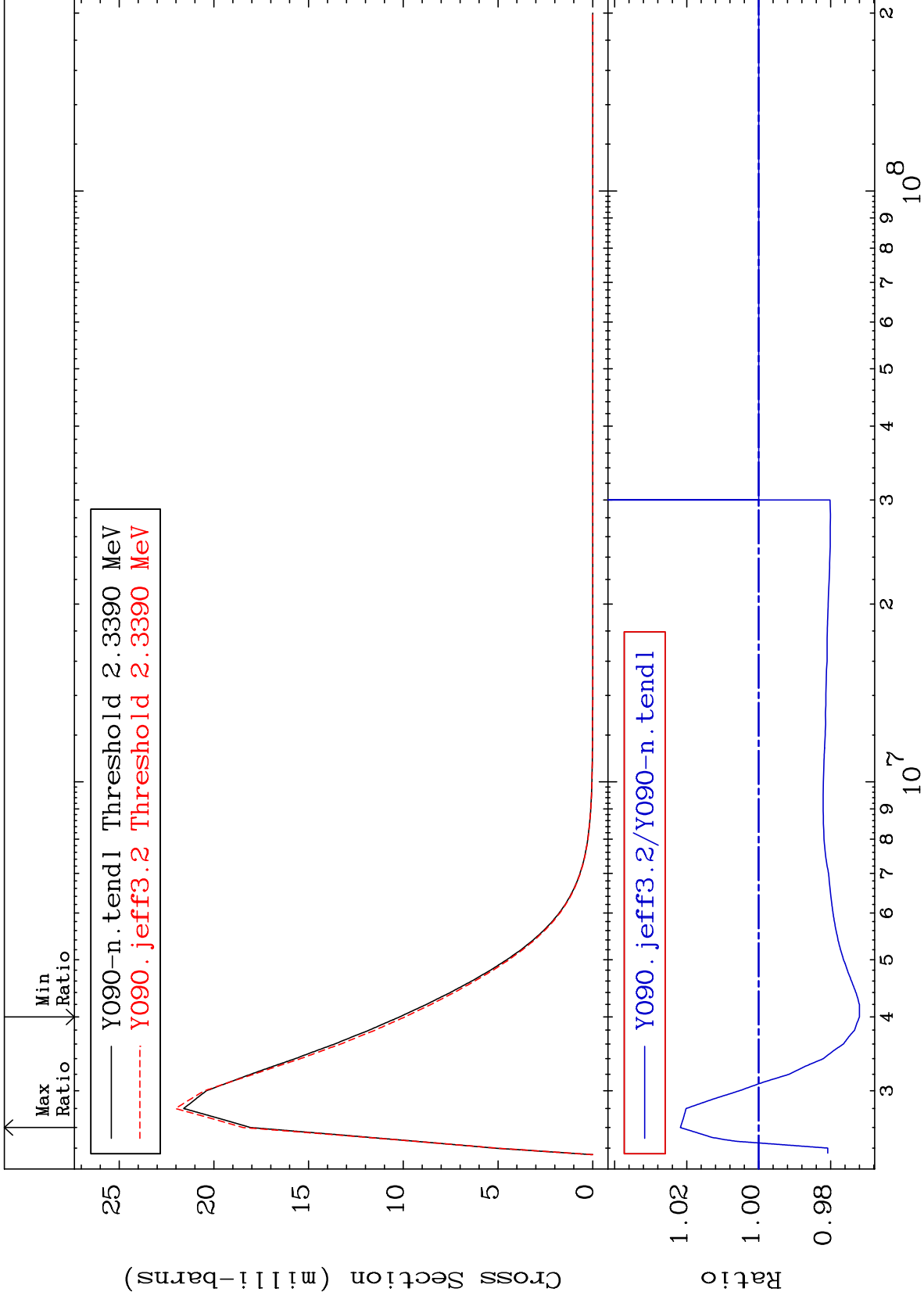


MAT 3928

2.244 MeV (n,n') Level  
Cross Section

39-Y -90  
0.000 To 134.5 %

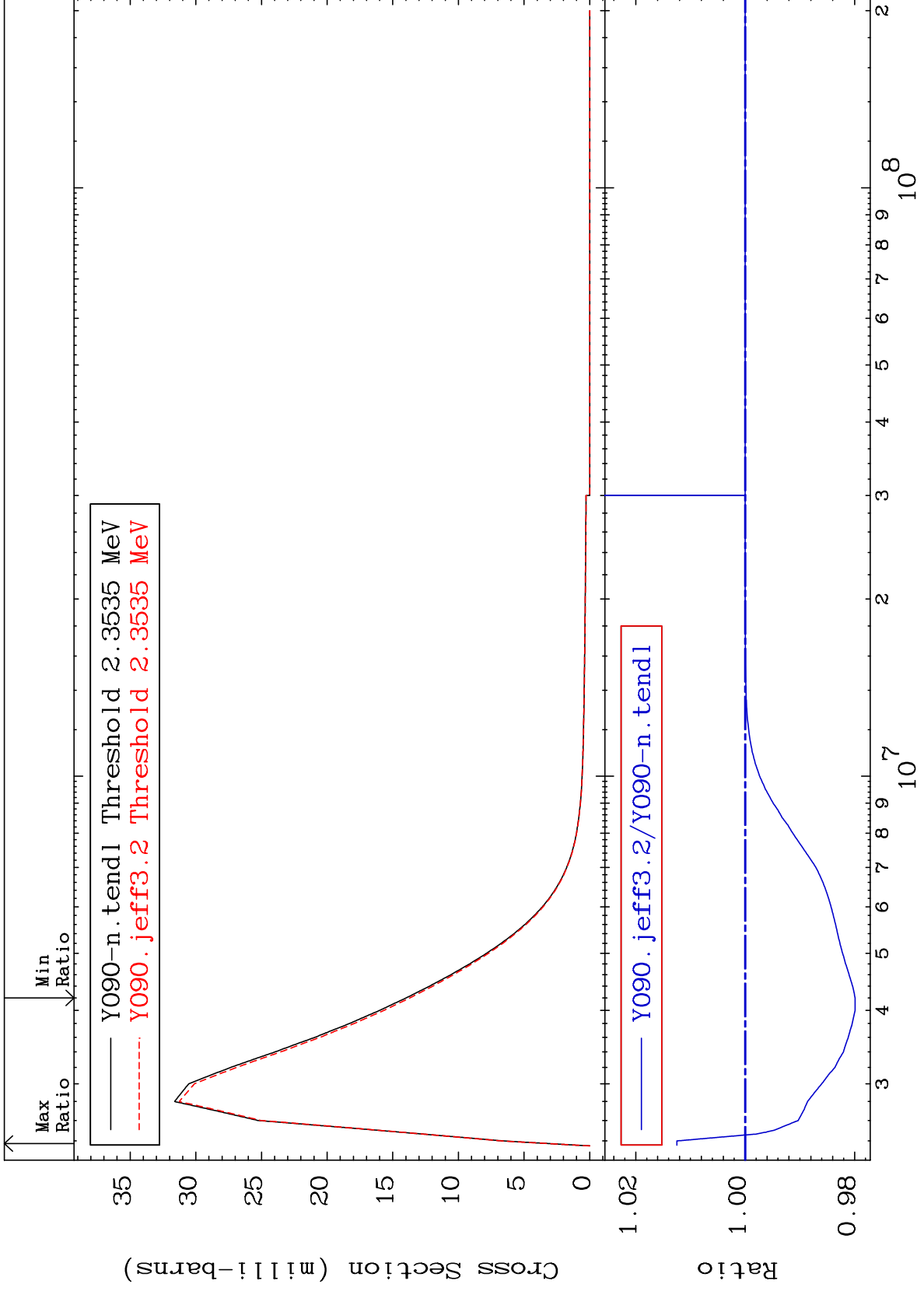




MAT 3928

2.327 MeV (n,n') Level  
Cross Section

39-Y -90  
-2.009 To 1.248 %



45

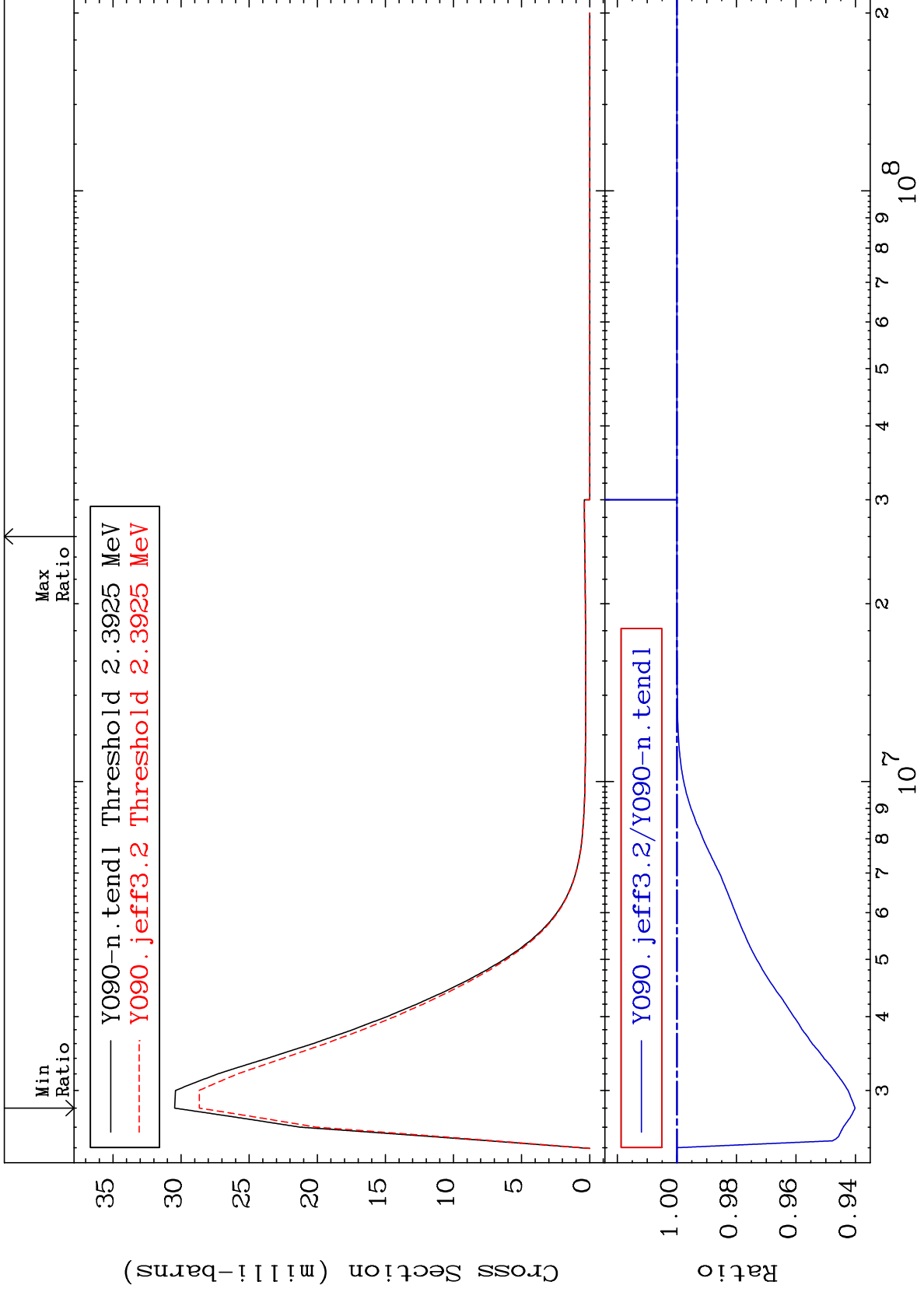
Incident Energy (eV)

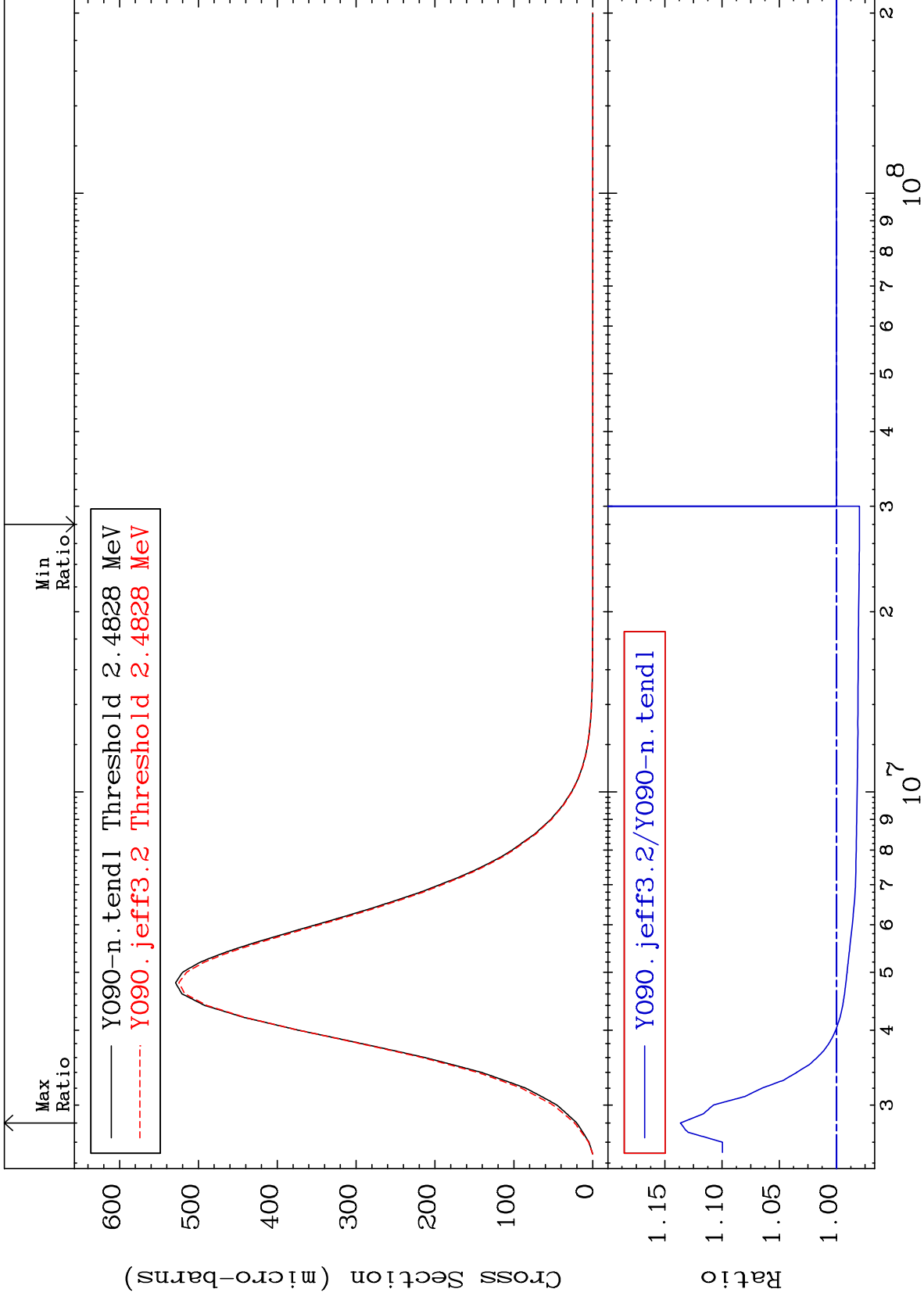
39-Y -90

MAT 3928

2.366 MeV (n,n') Level  
Cross Section

39-Y -90  
-5.984 To 0.000 %

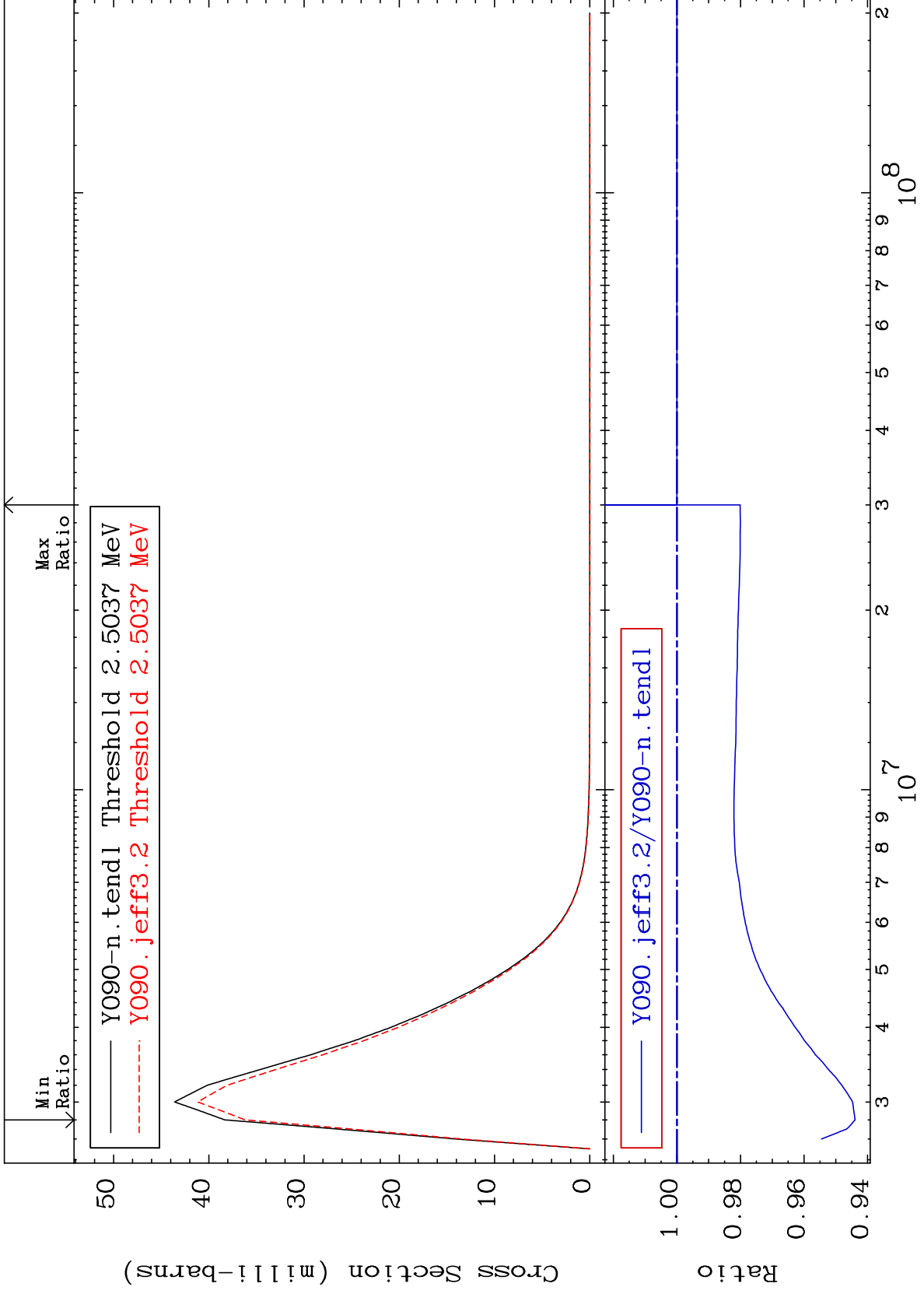




MAT 3928

2.476 MeV (n,n') Level  
Cross Section

39-Y -90  
-5.606 To 0.000 %

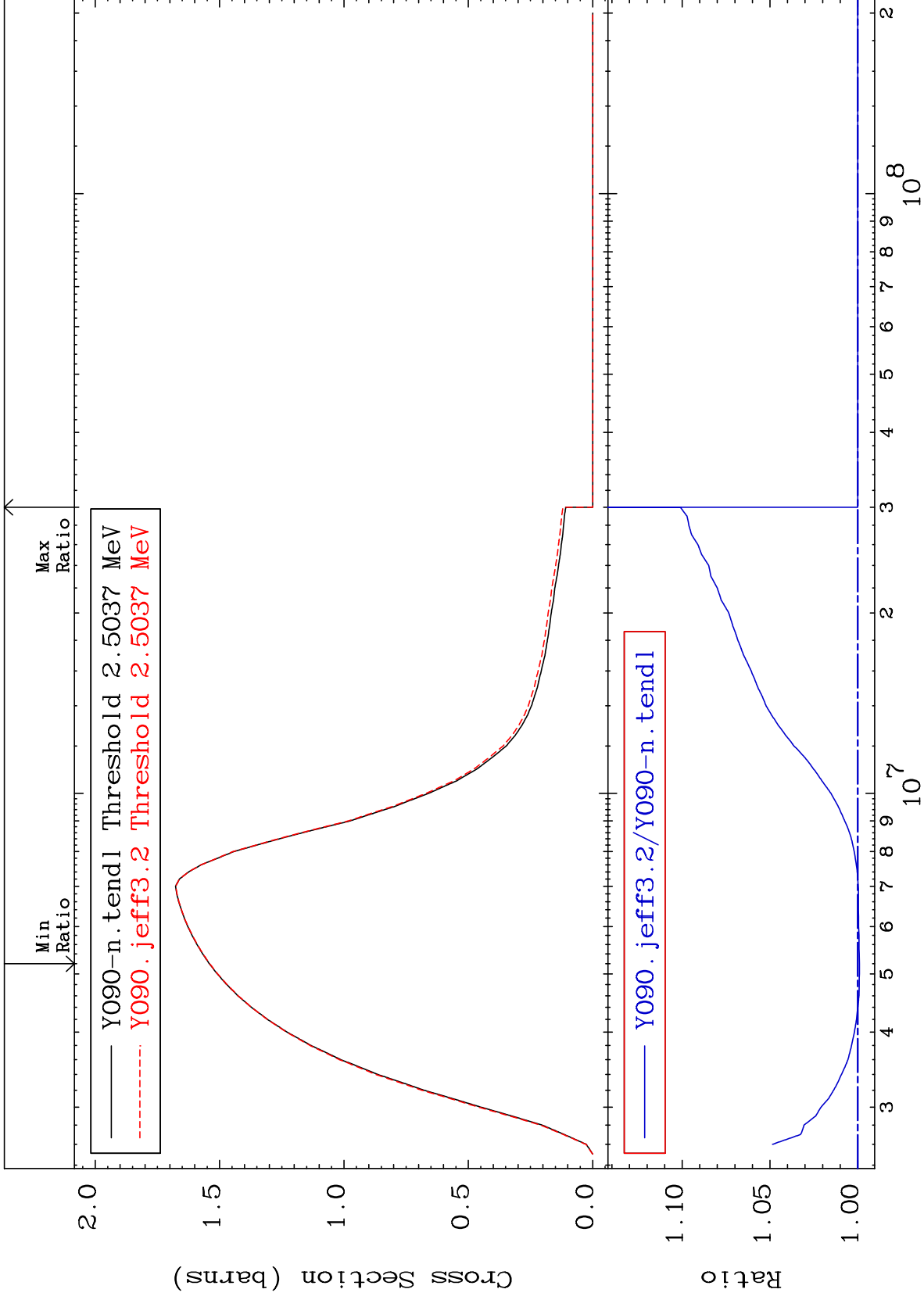


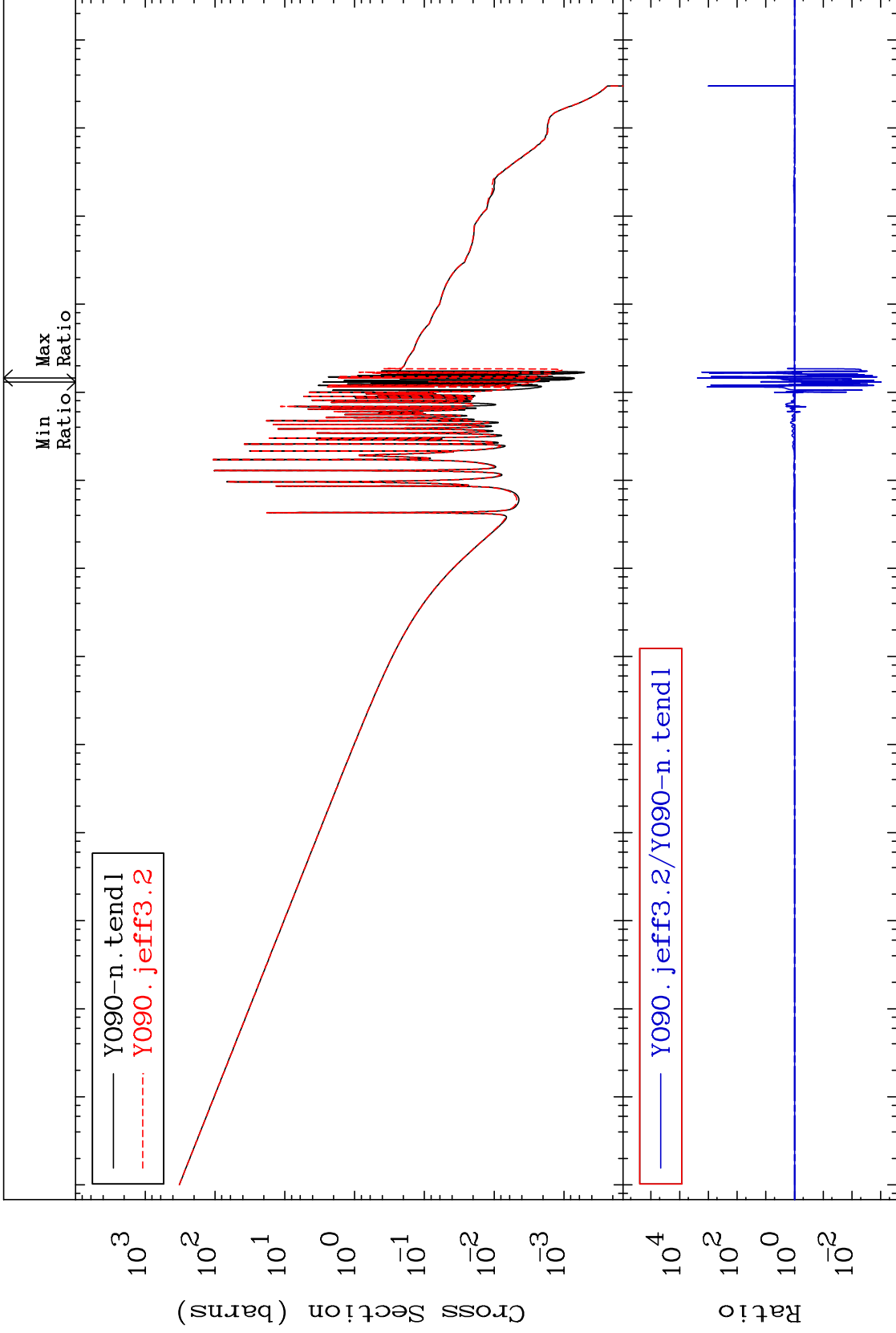
48

Incident Energy (eV)

39-Y -90







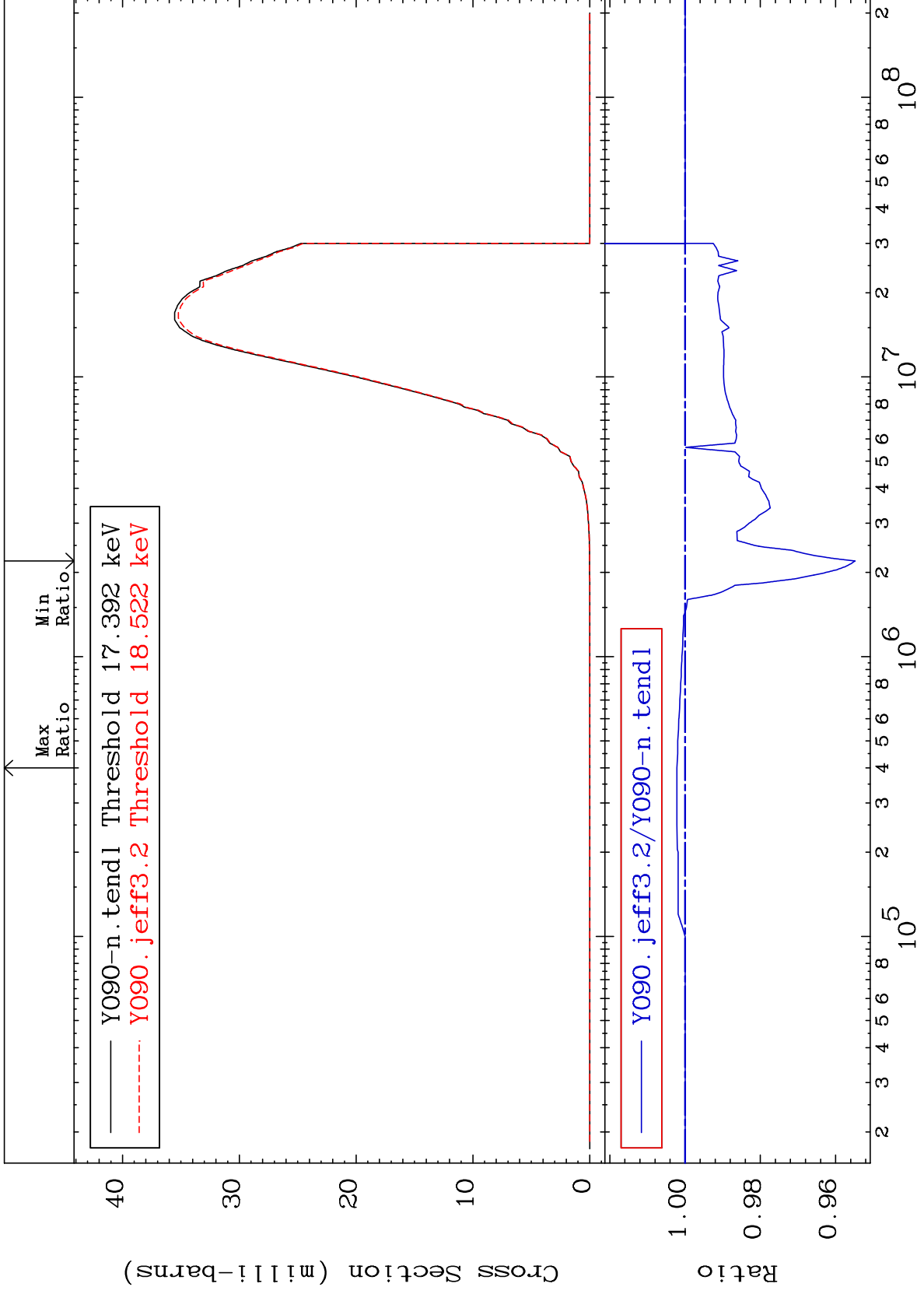
MAT 3928

(n,p)

39-Y -90

Cross Section

-4.518 To 0.217 %



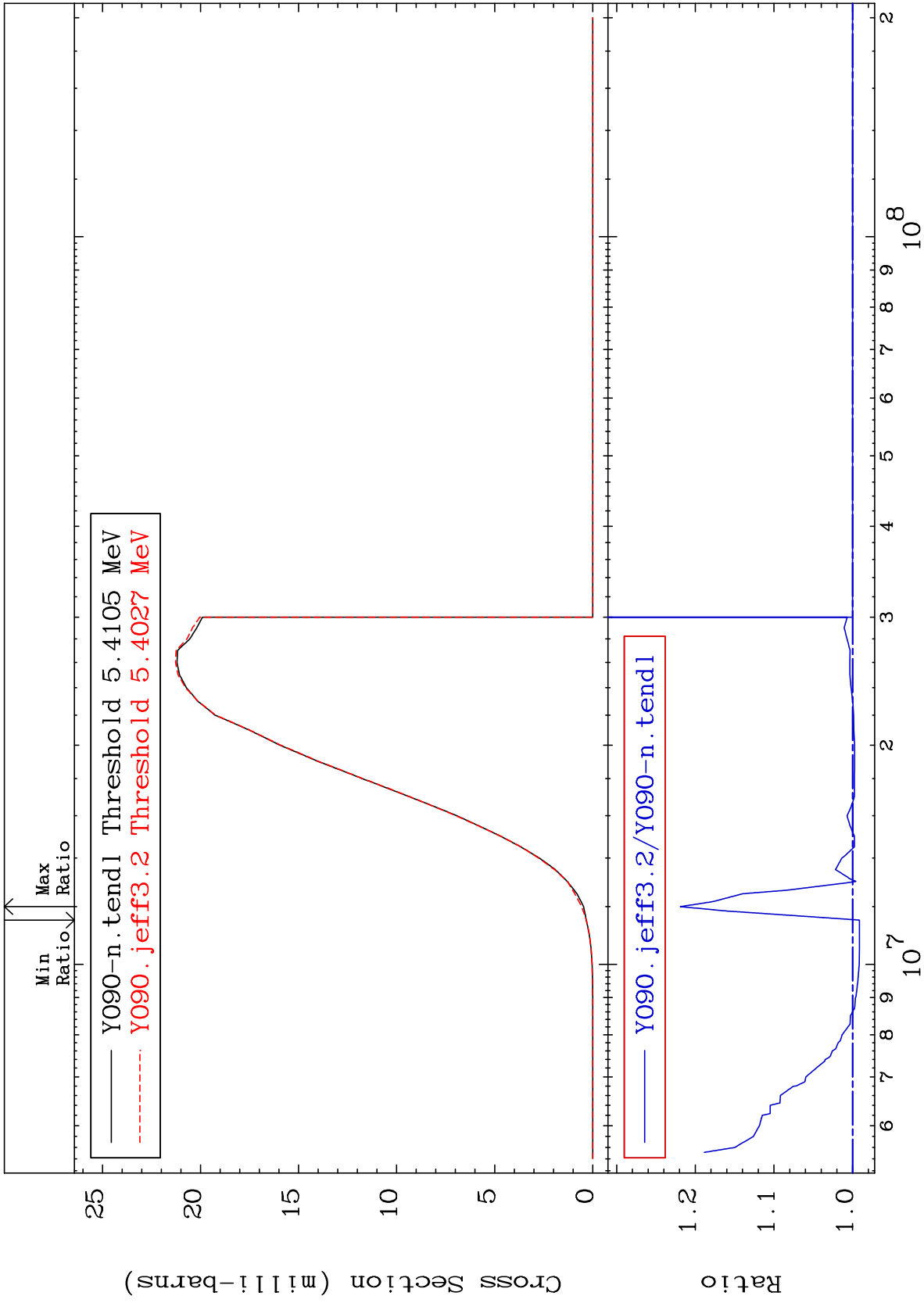
MAT 3928

(n, d)

39-Y -90

Cross Section

-0.864 To 21.90 %



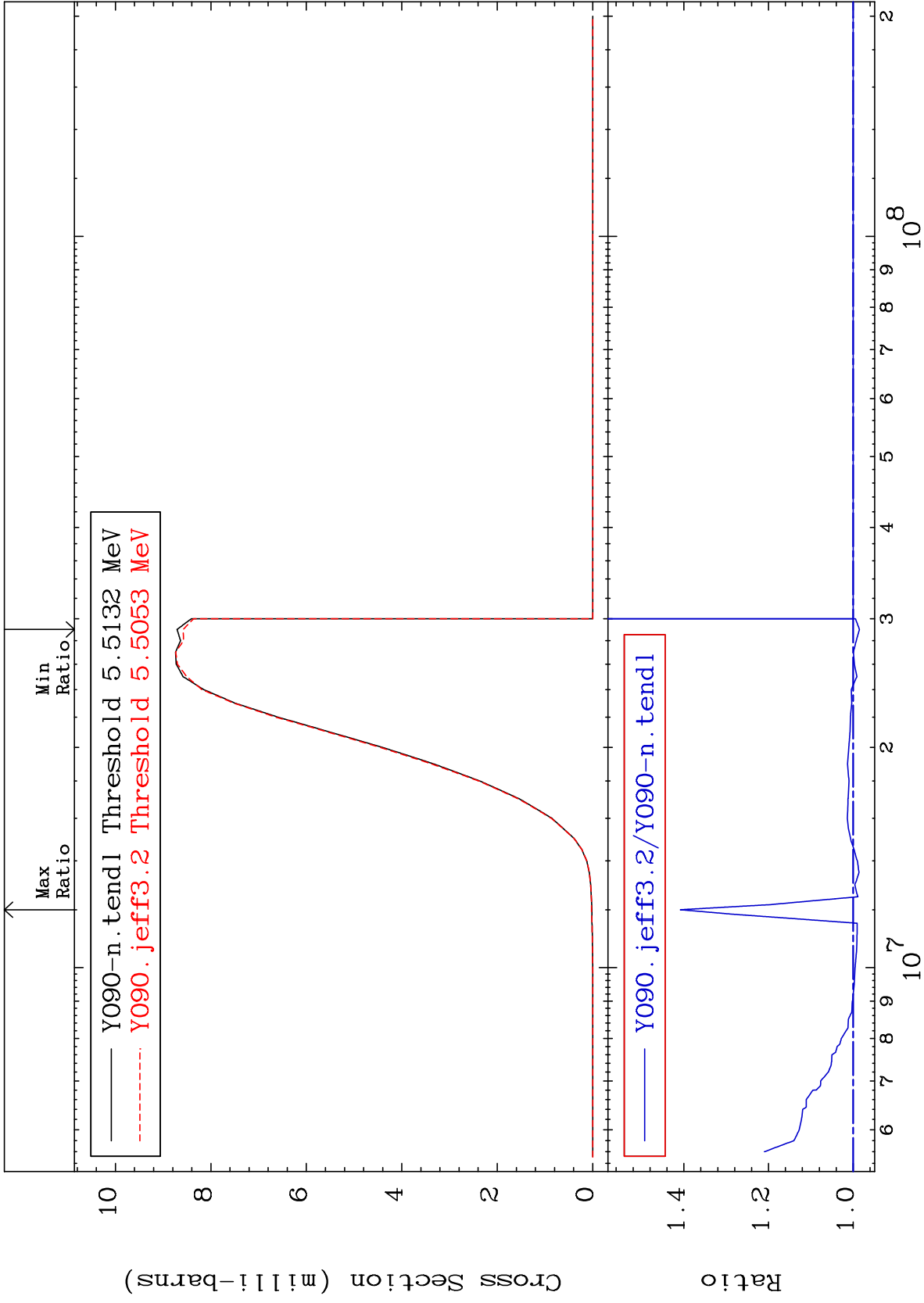
52

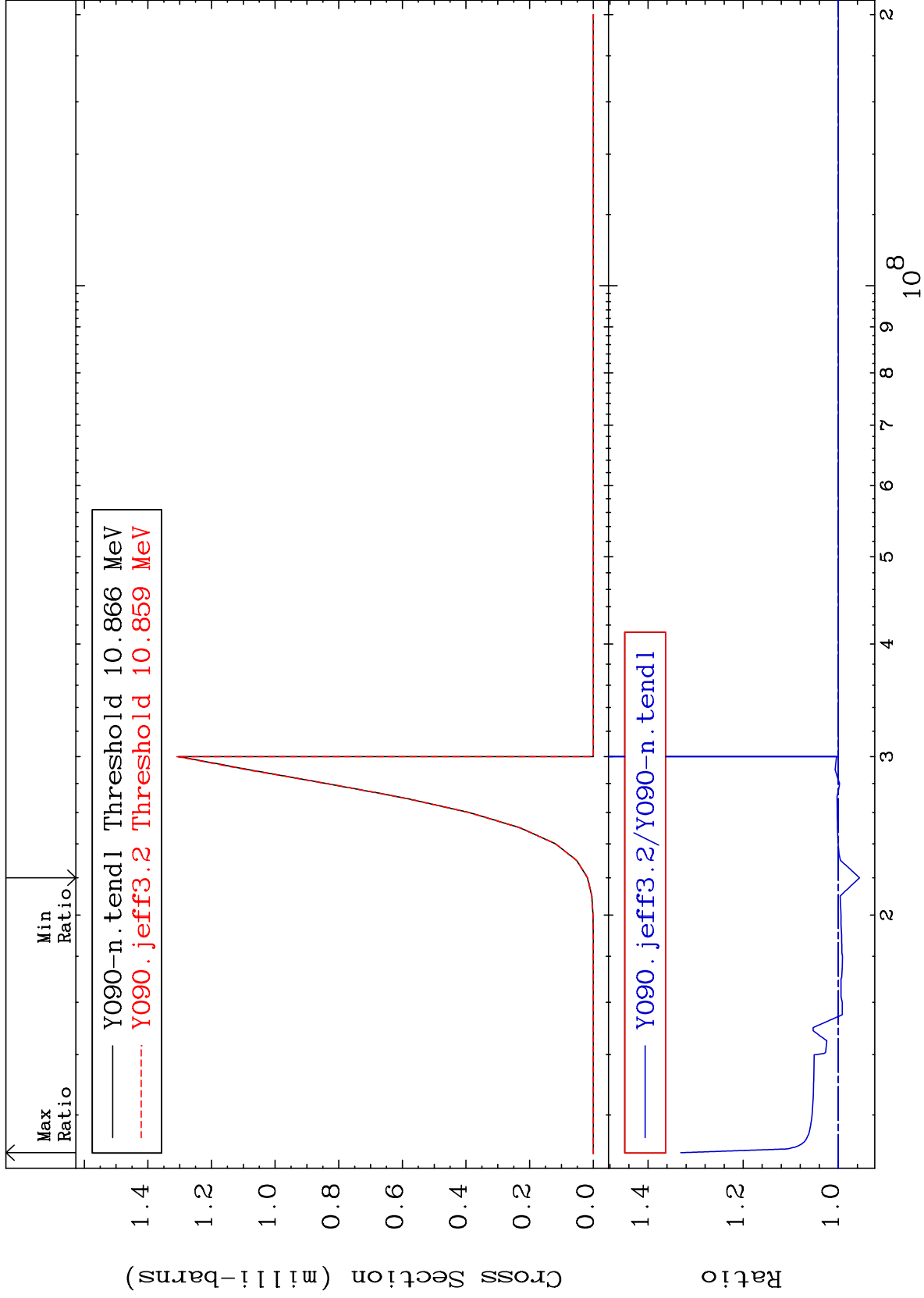
Incident Energy (eV)

39-Y -90

Cross Section

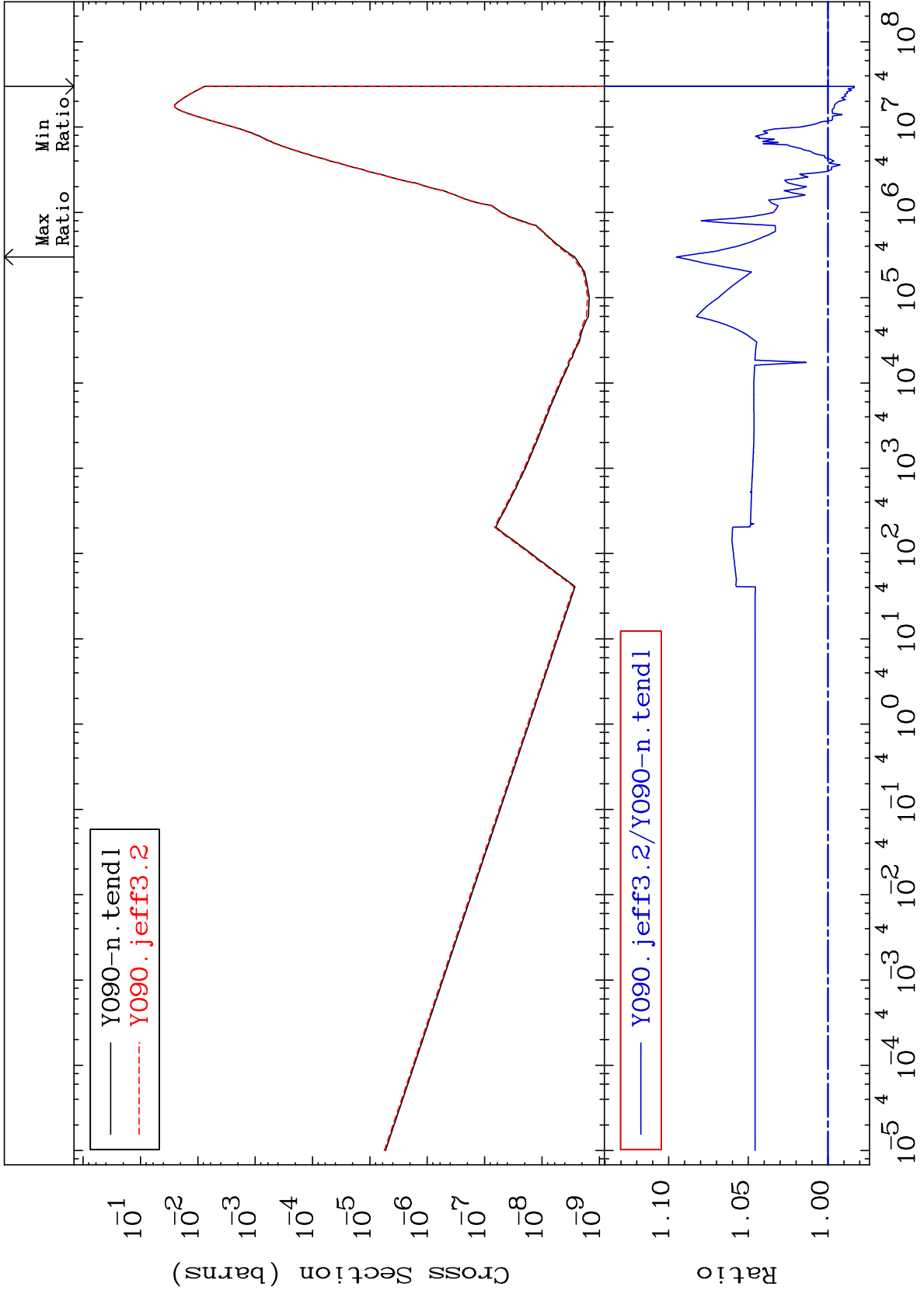
-1.477 To 40.84 %





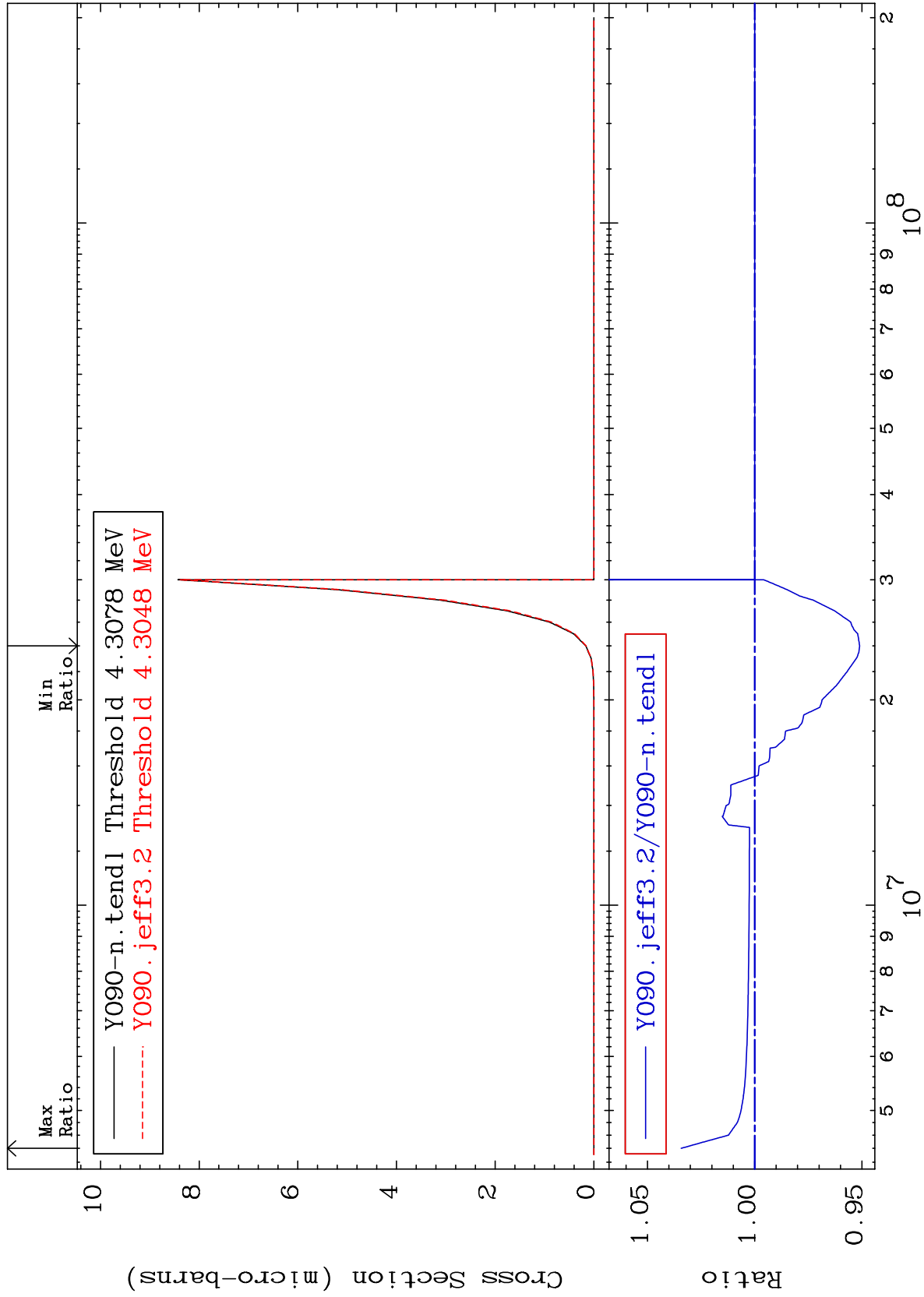
Cross Section

-1.657 To 9.518 %

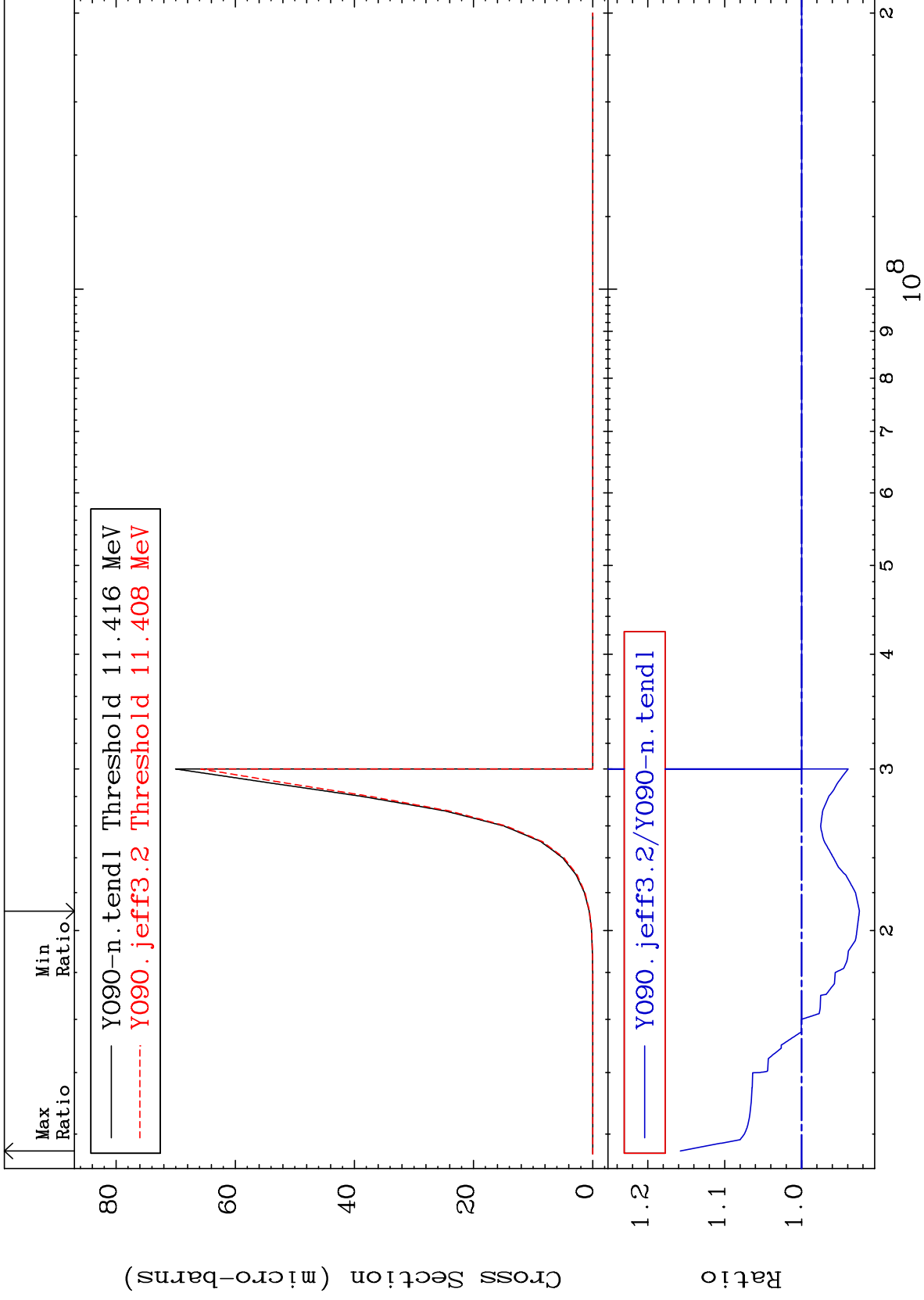


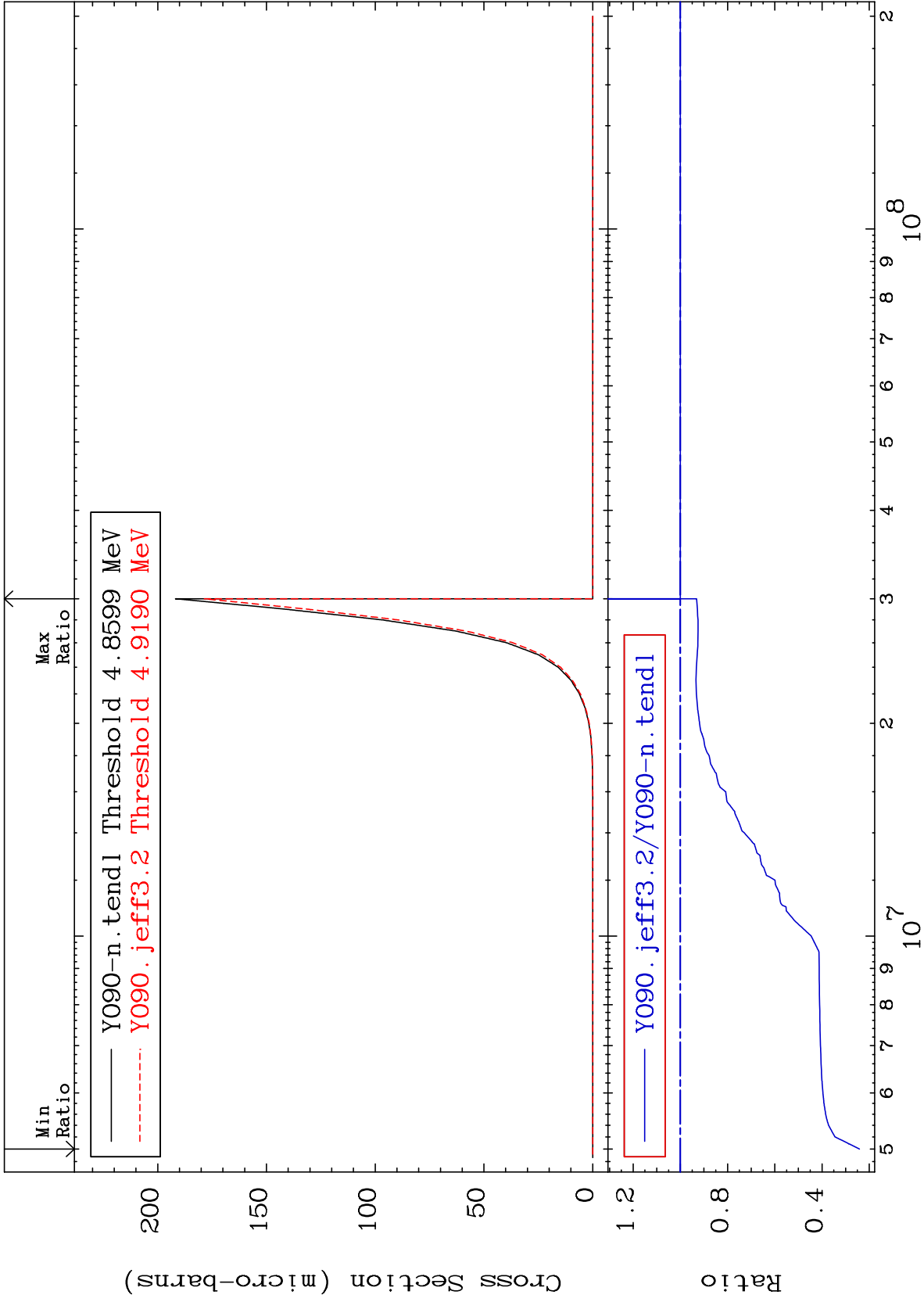
Cross Section

-4.893 To 3.427 %





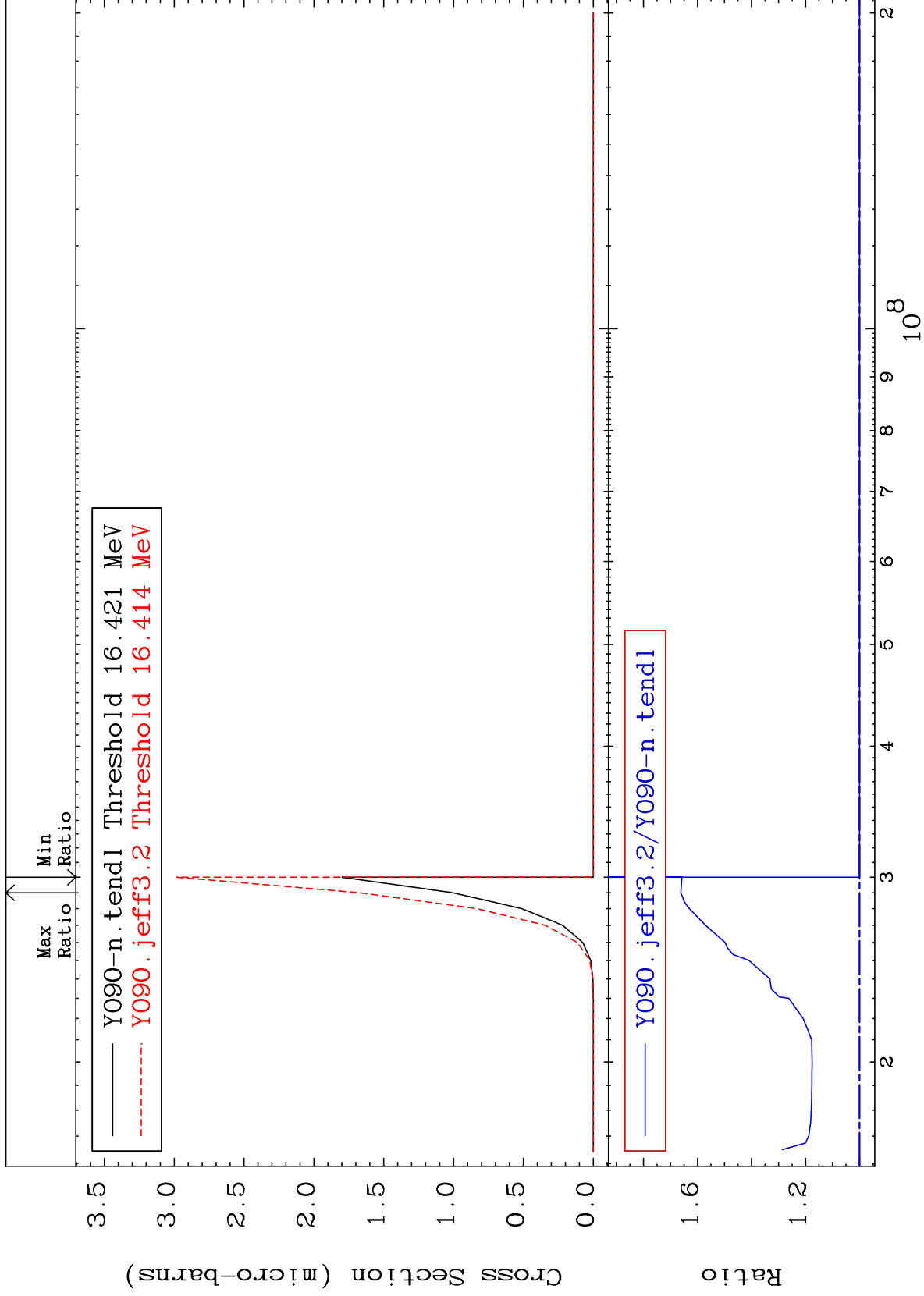




MAT 3928

(n,p) d  
Cross Section

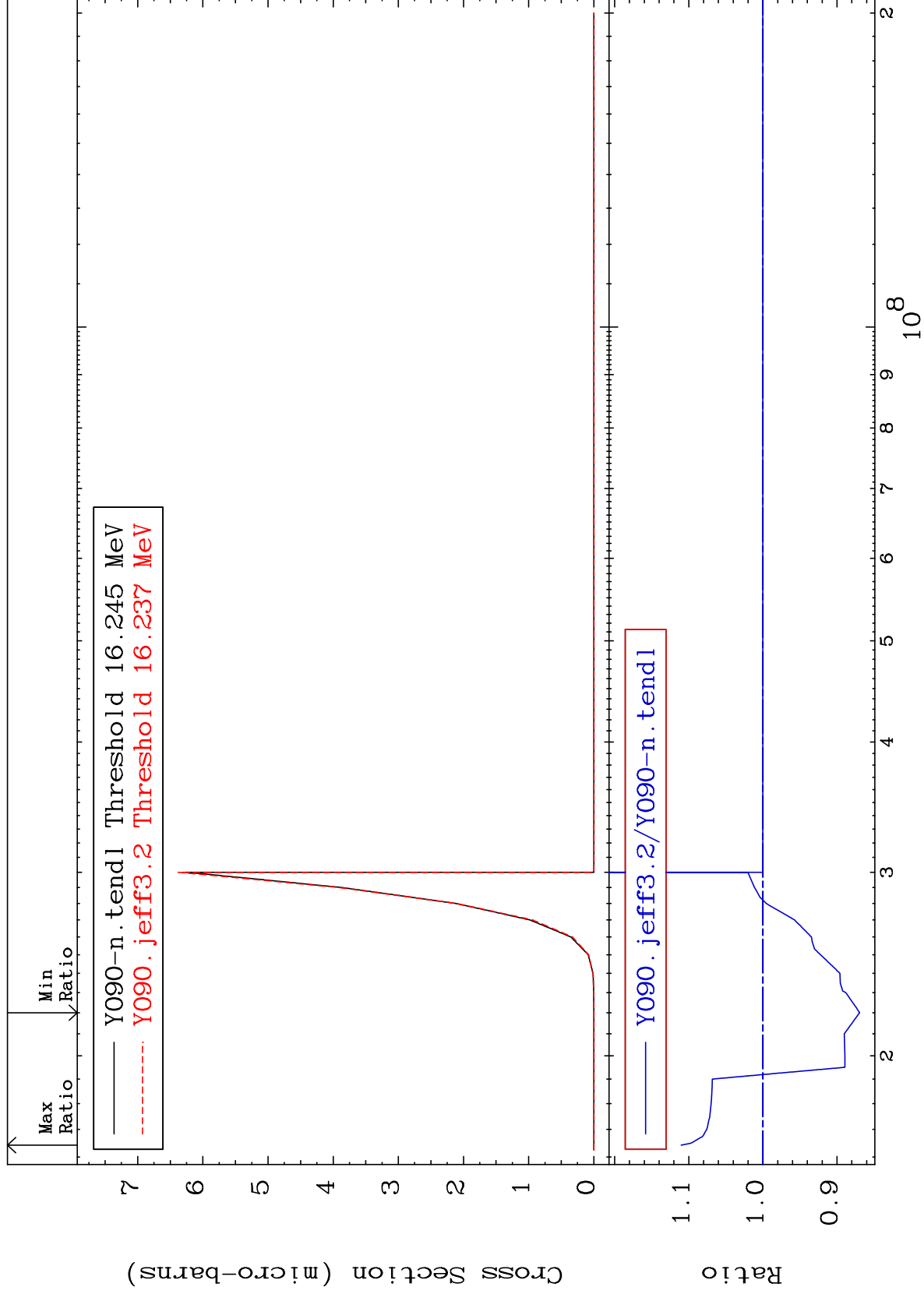
39-Y -90  
0.000 To 66.20 %



MAT 3928

(n,p) t  
Cross Section

39-Y -90  
-13.06 To 11.02 %



60

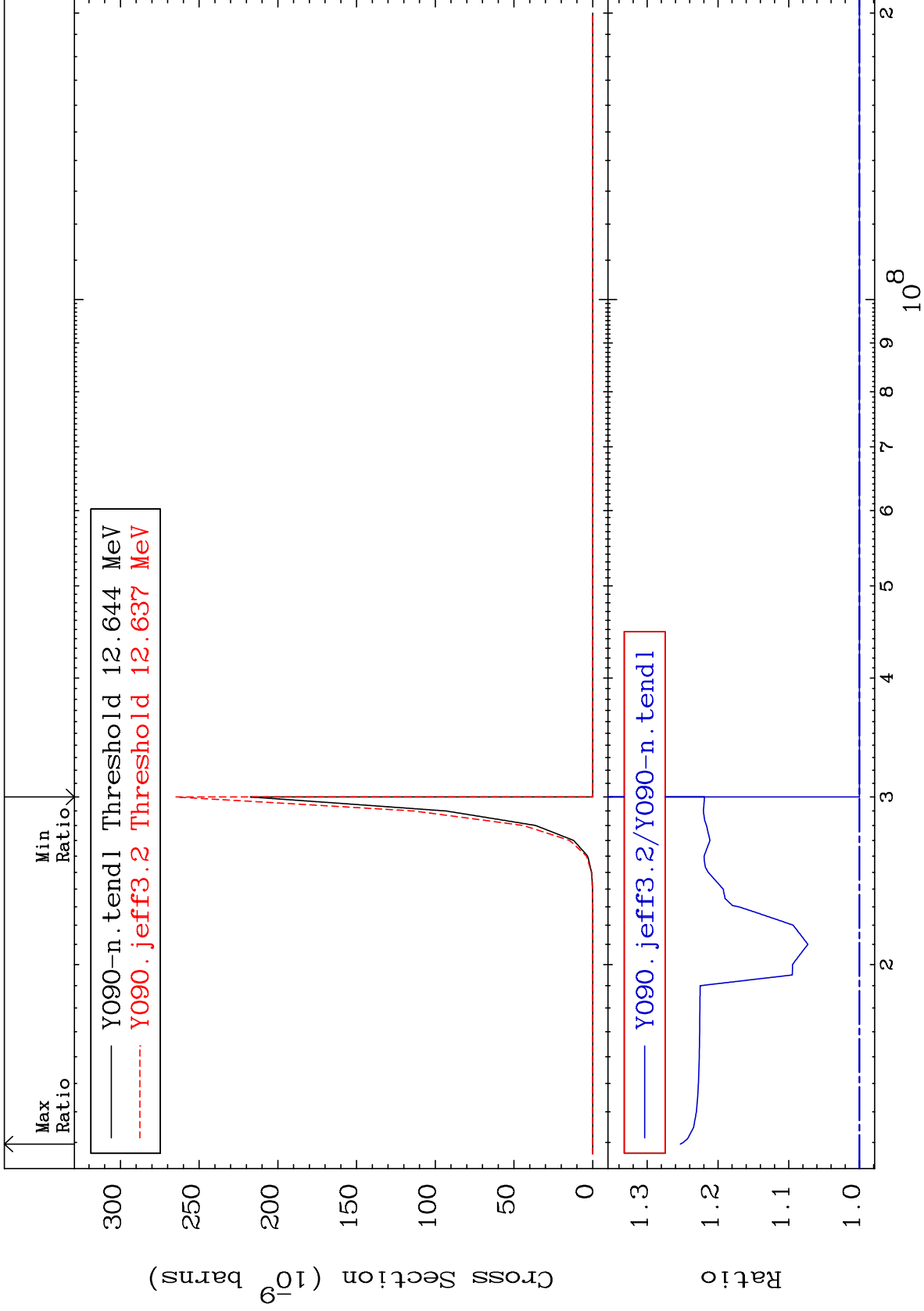
Incident Energy (eV)

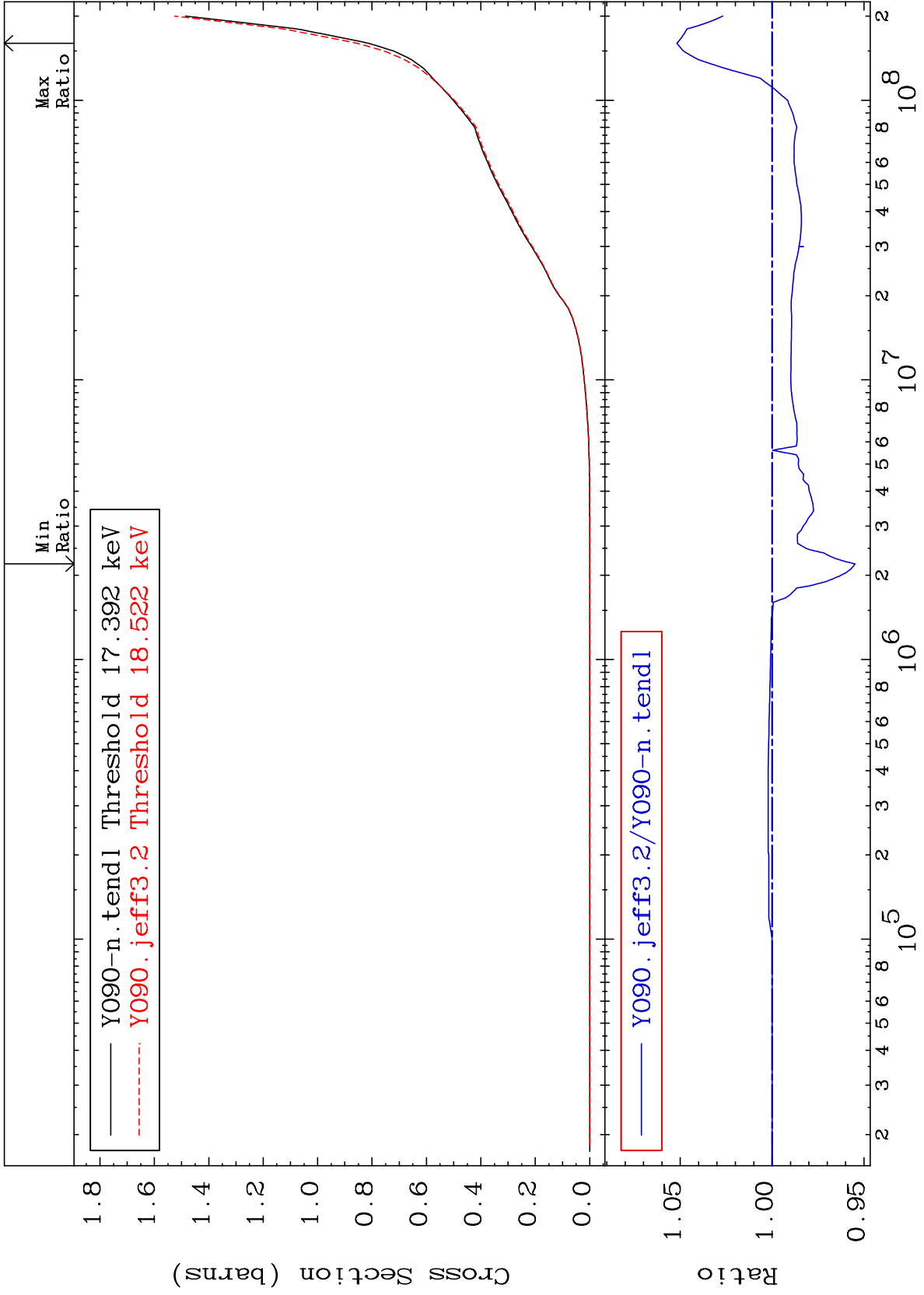
39-Y -90

MAT 3928

(n,d)  $\alpha$   
Cross Section

39-Y -90  
0.000 To 25.32 %

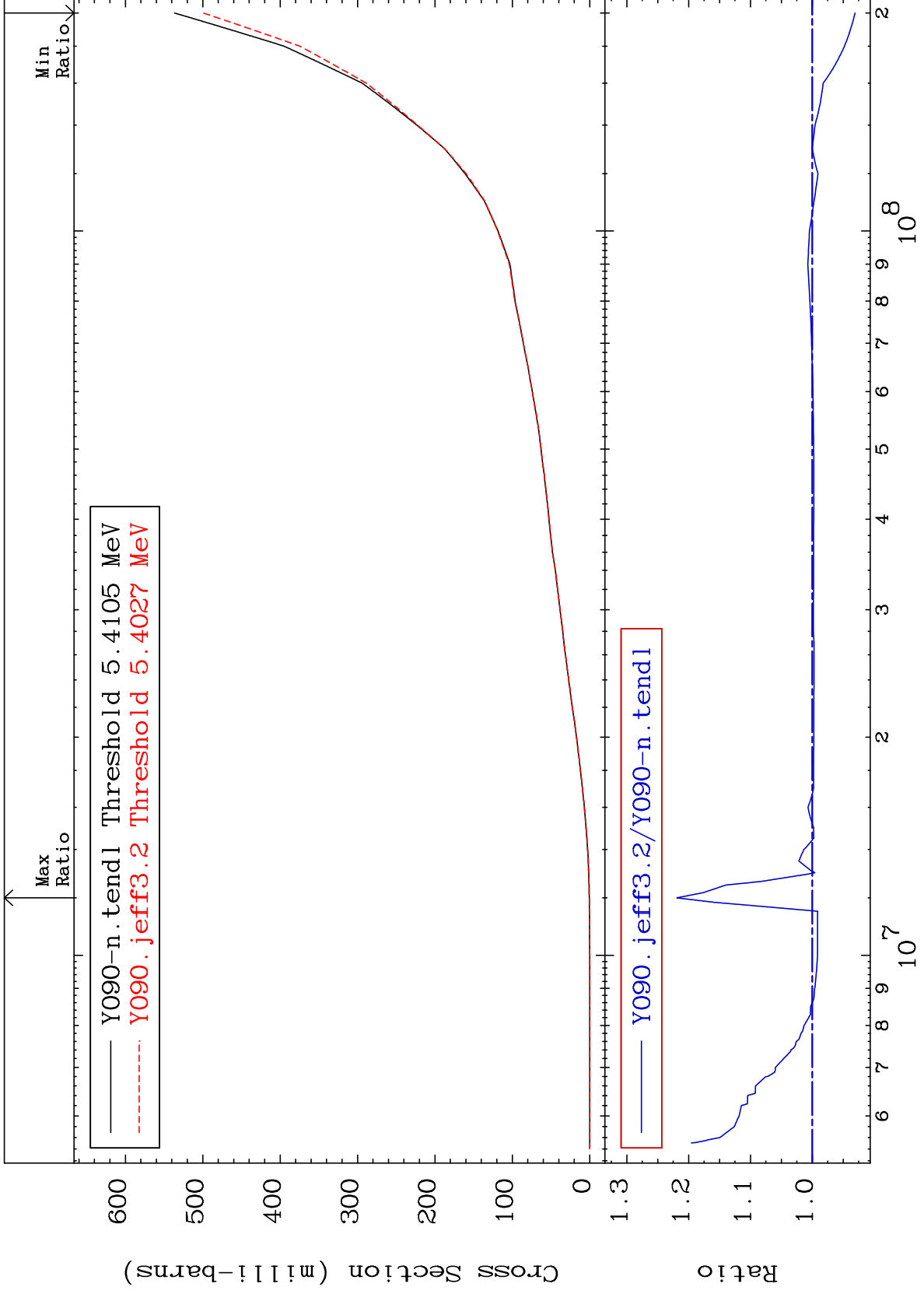


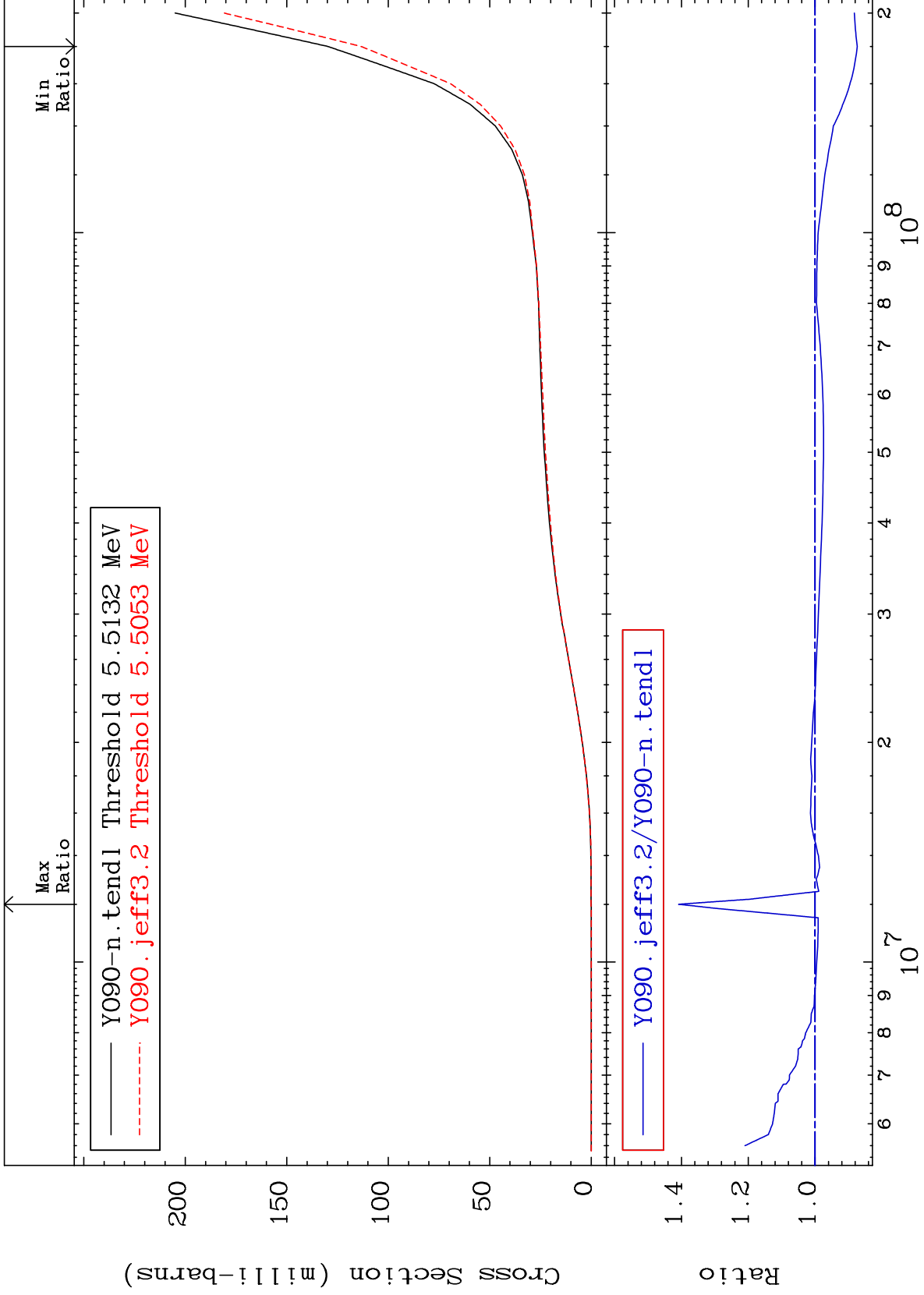


MAT 3928

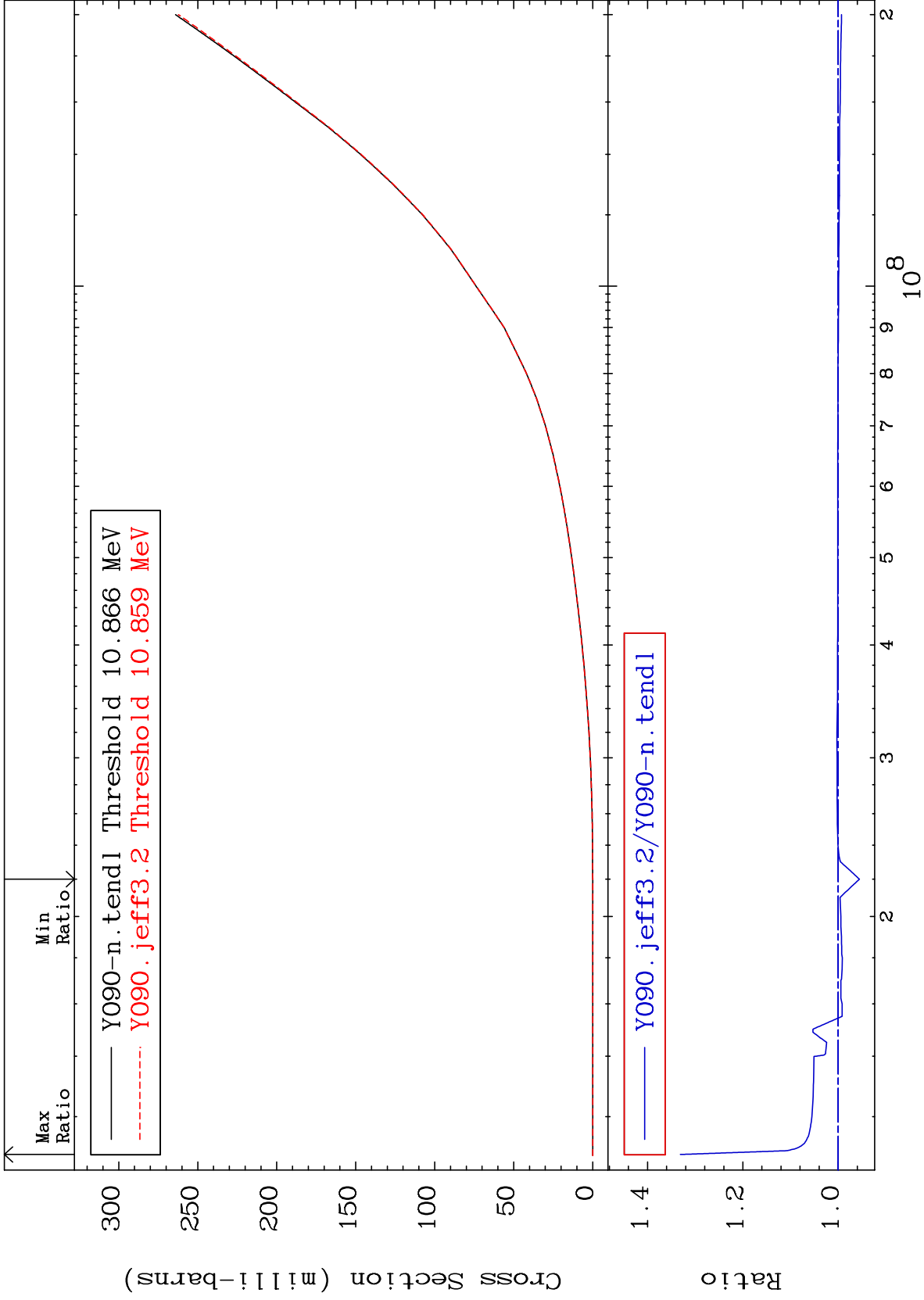
Deuterium Production  
Cross Section

39-Y -90  
-6.922 To 21.90 %





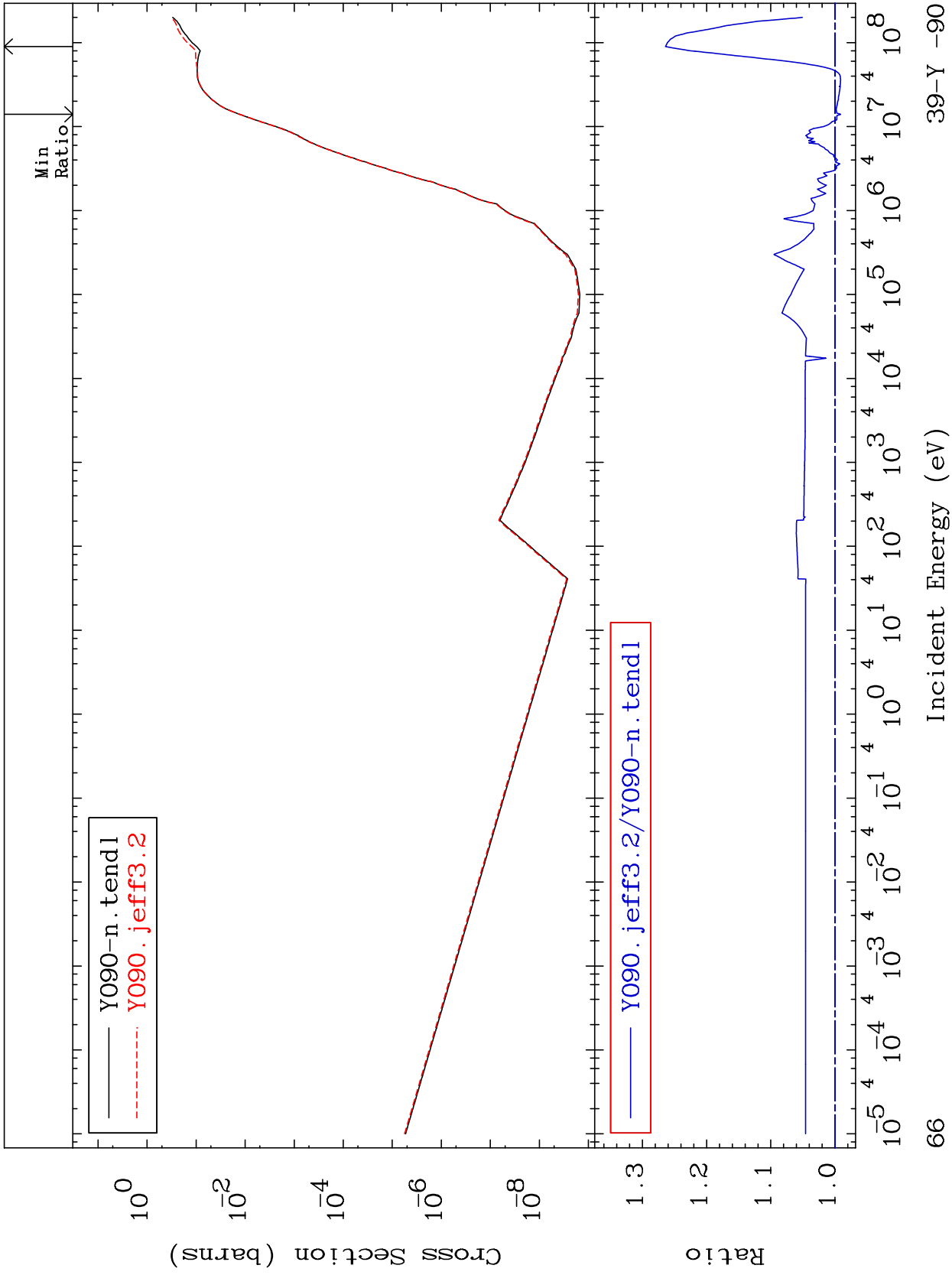


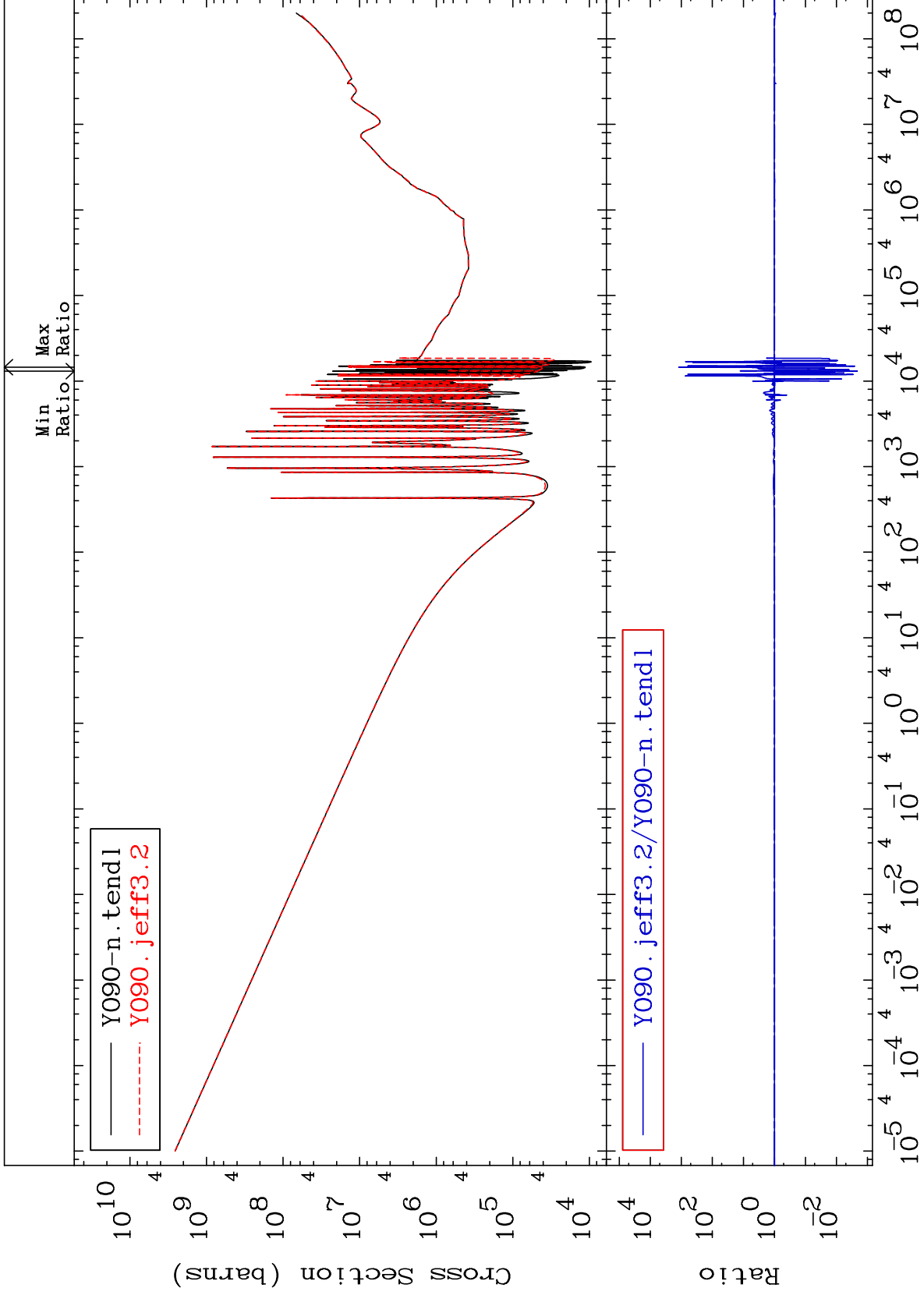


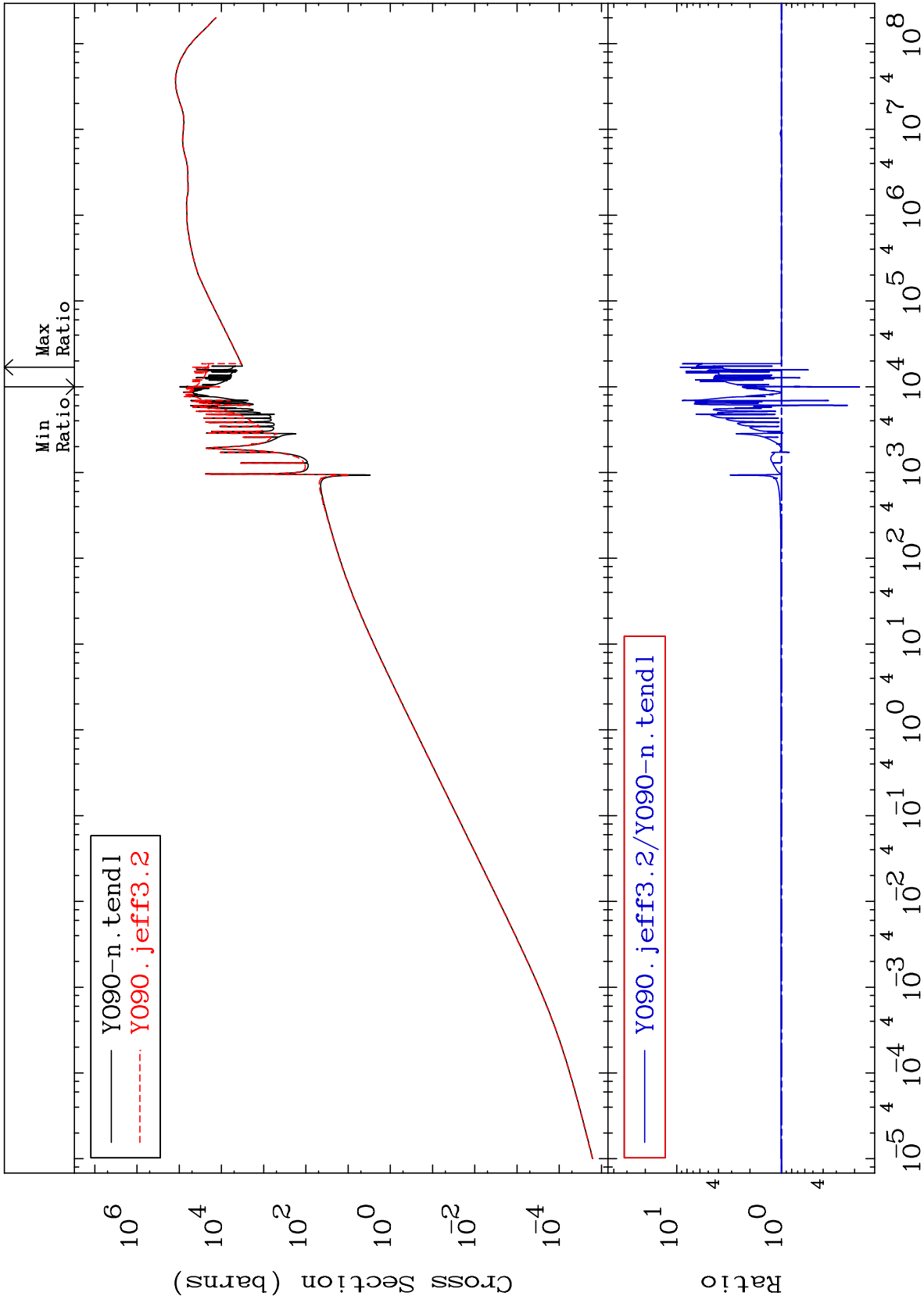
MAT 3928

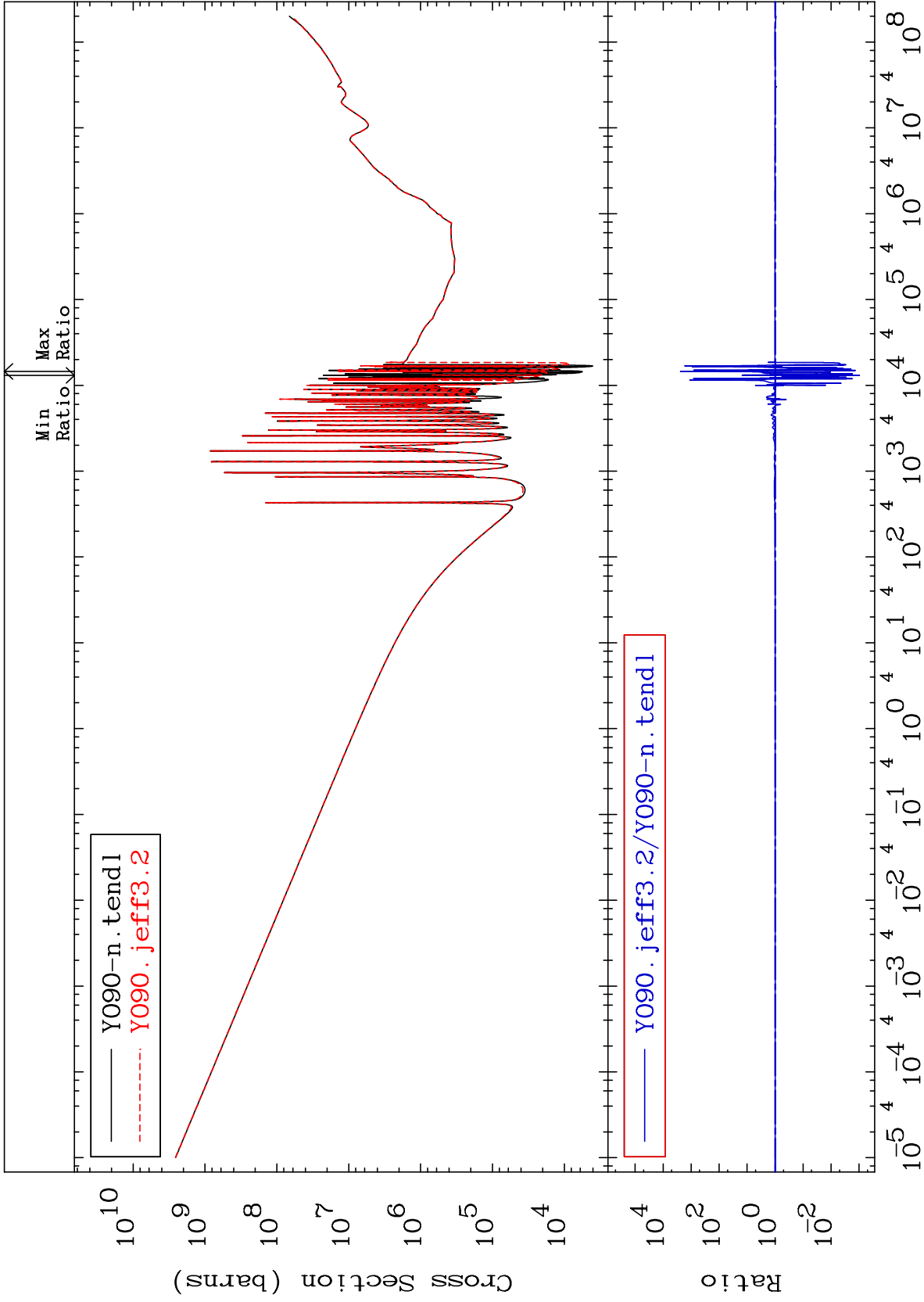
He-4 Production  
Cross Section

39-Y -90  
-0.884 To 26.40 %





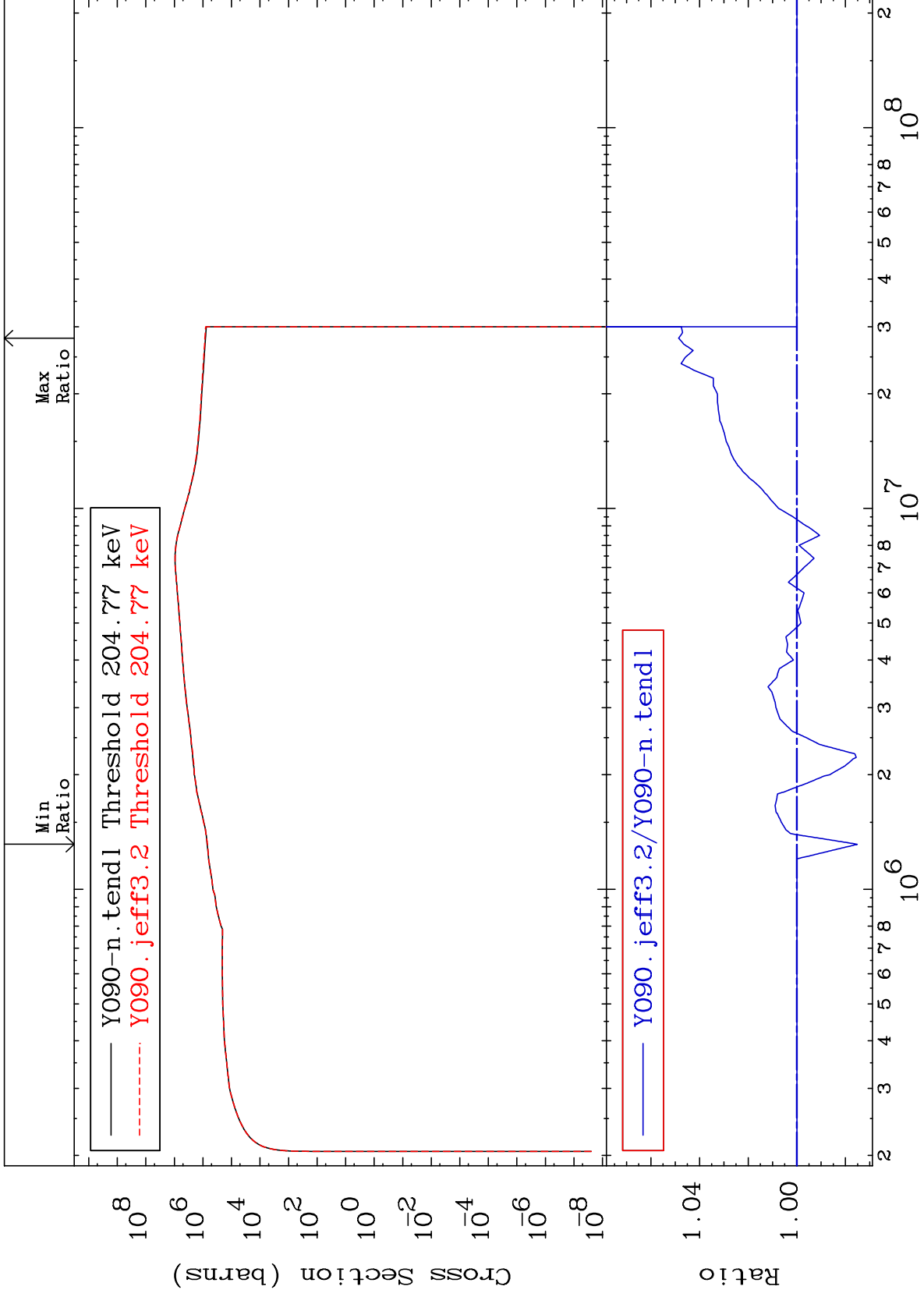




MAT 3928

Kerma inelastic (mt51-91)  
Cross Section

39-Y -90  
-2.484 To 4.860 %



70

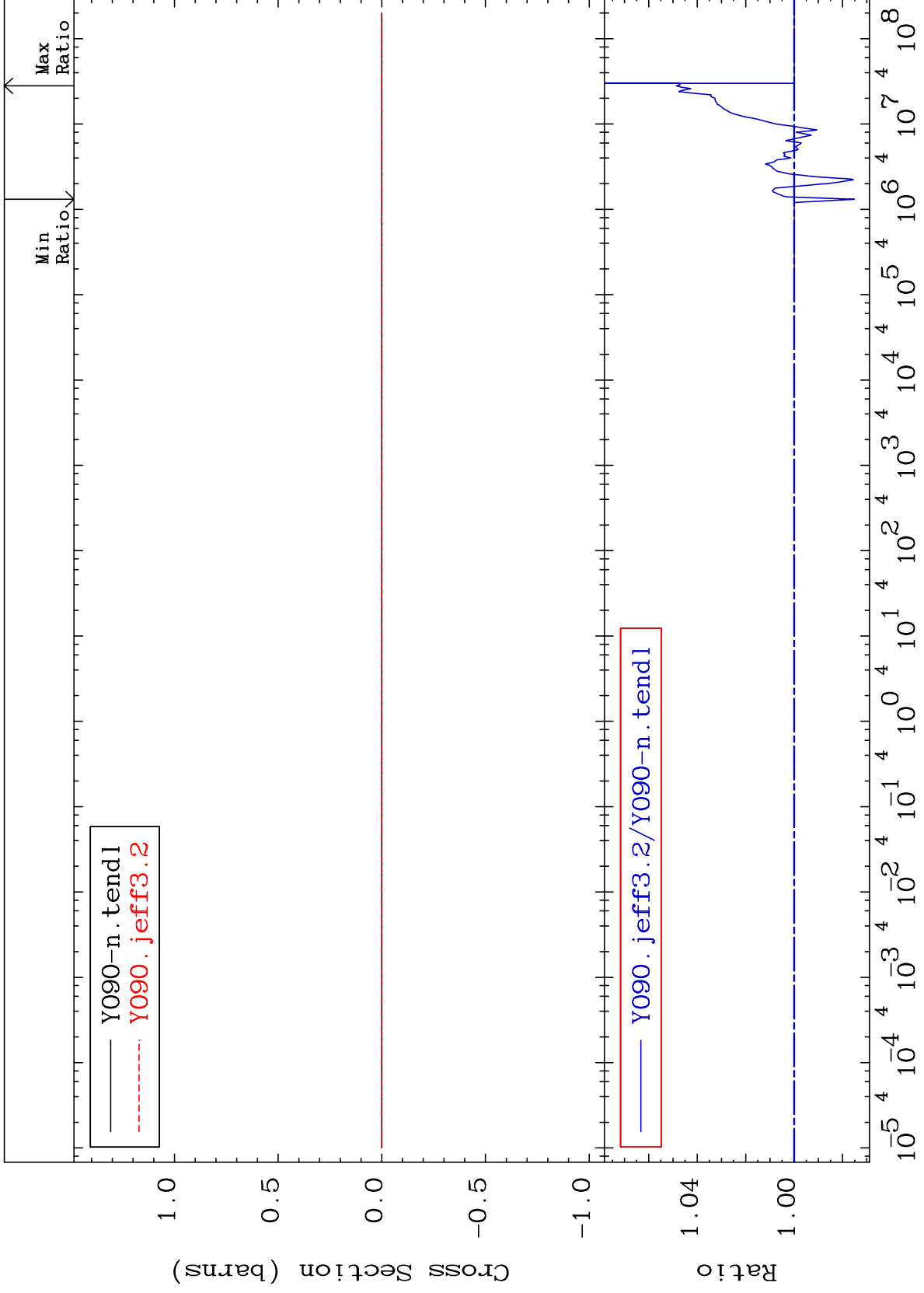
Incident Energy (eV)

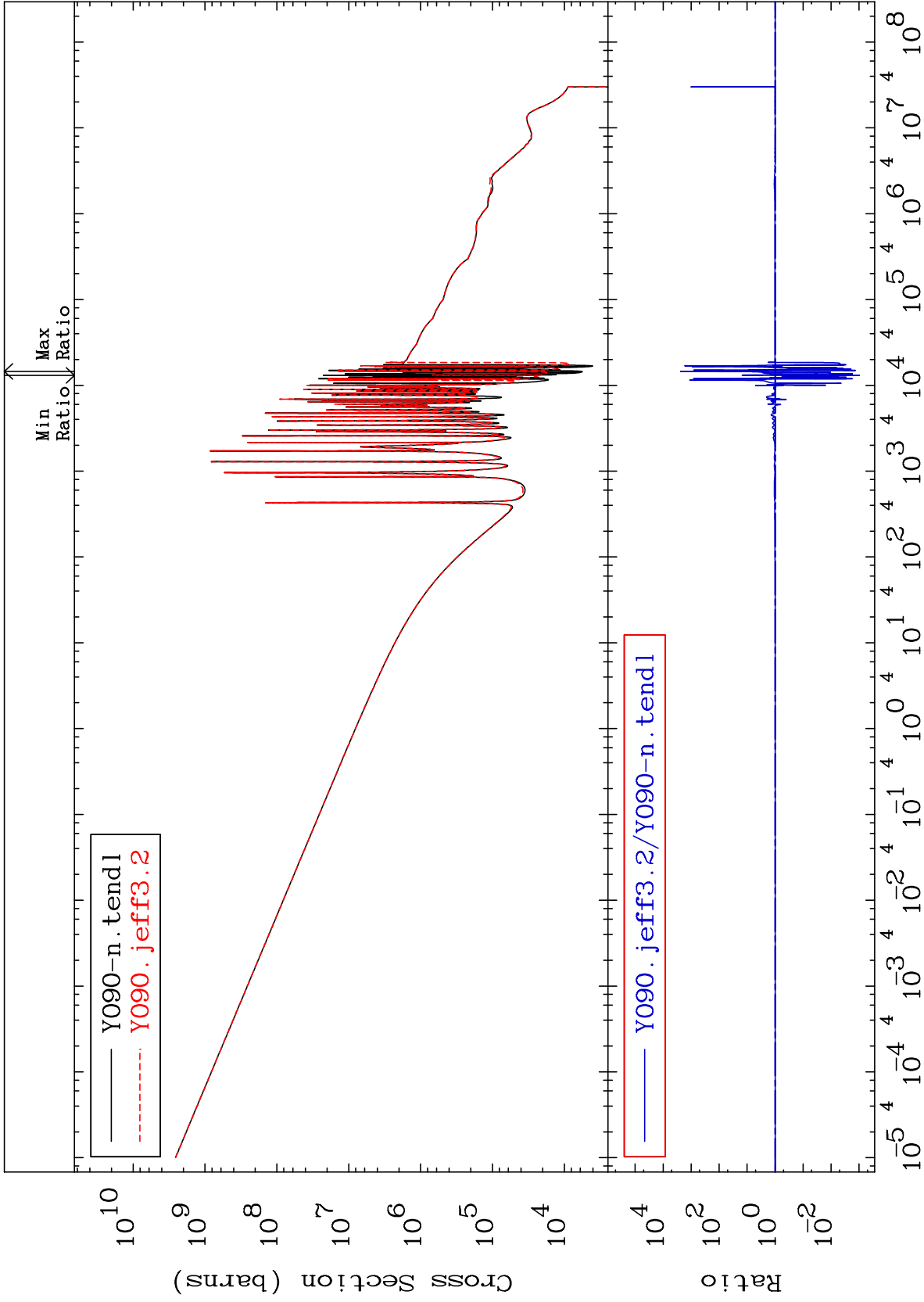
39-Y -90

MAT 3928

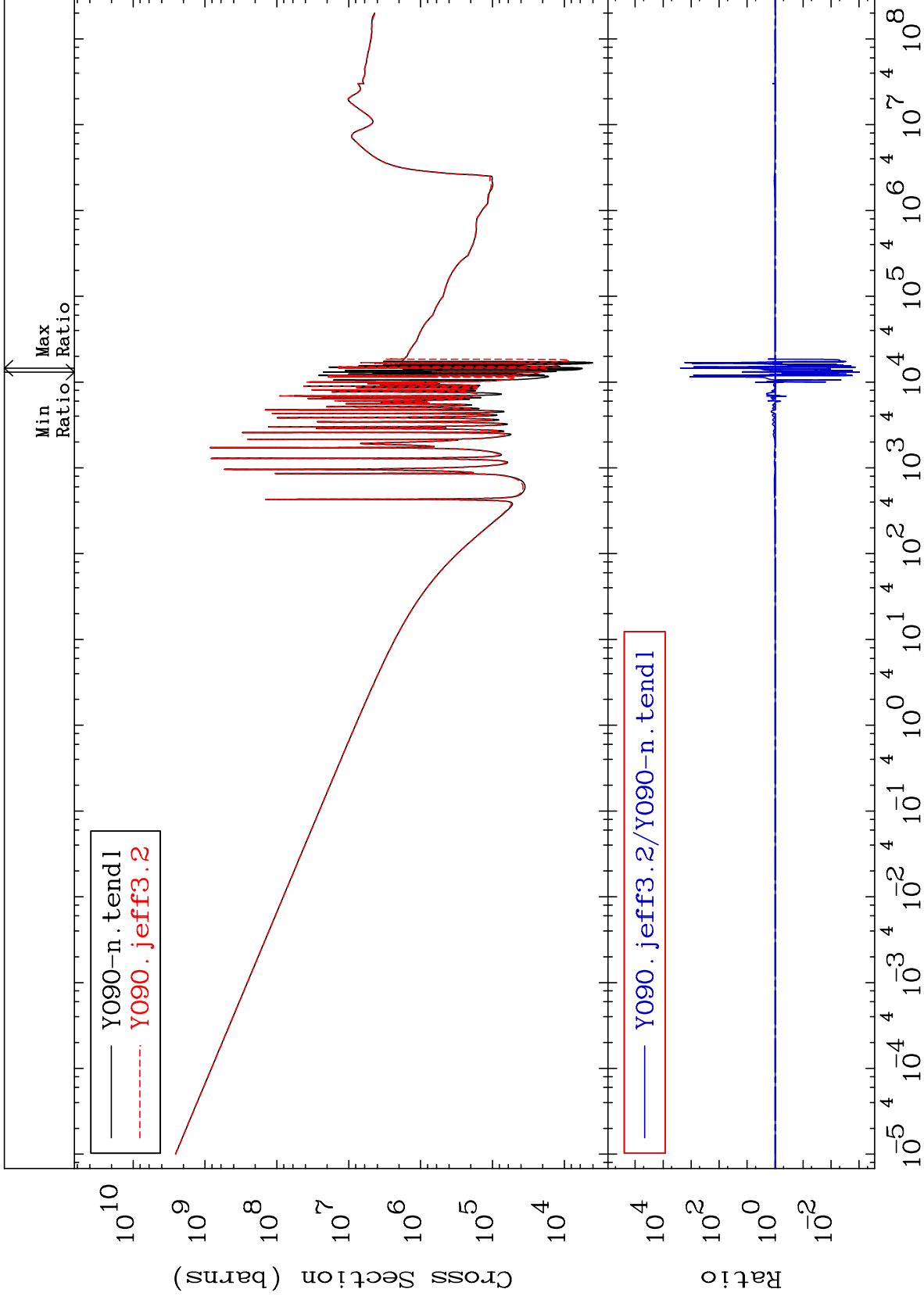
Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

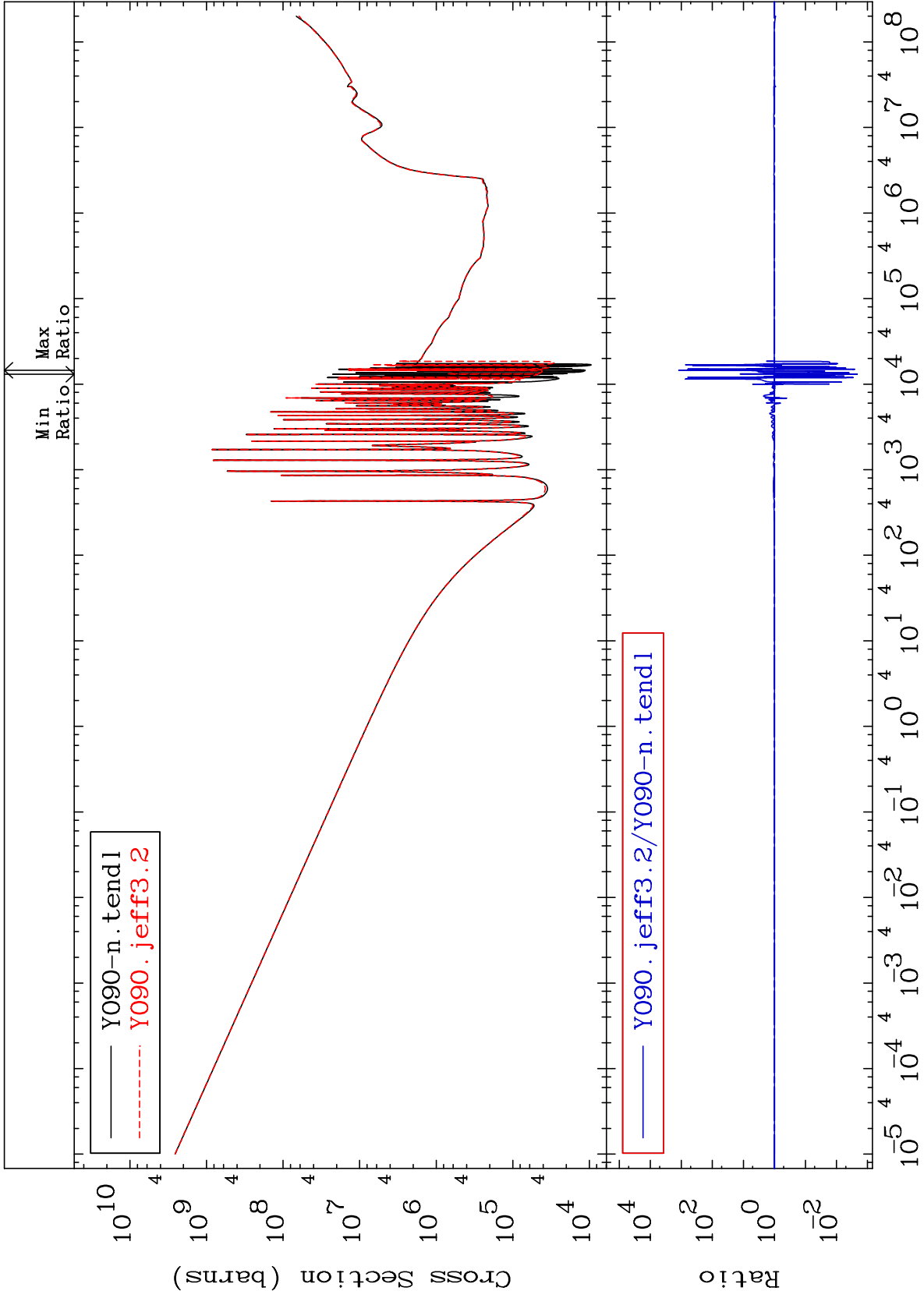
-2.484 To 4.860 %  
39-Y -90

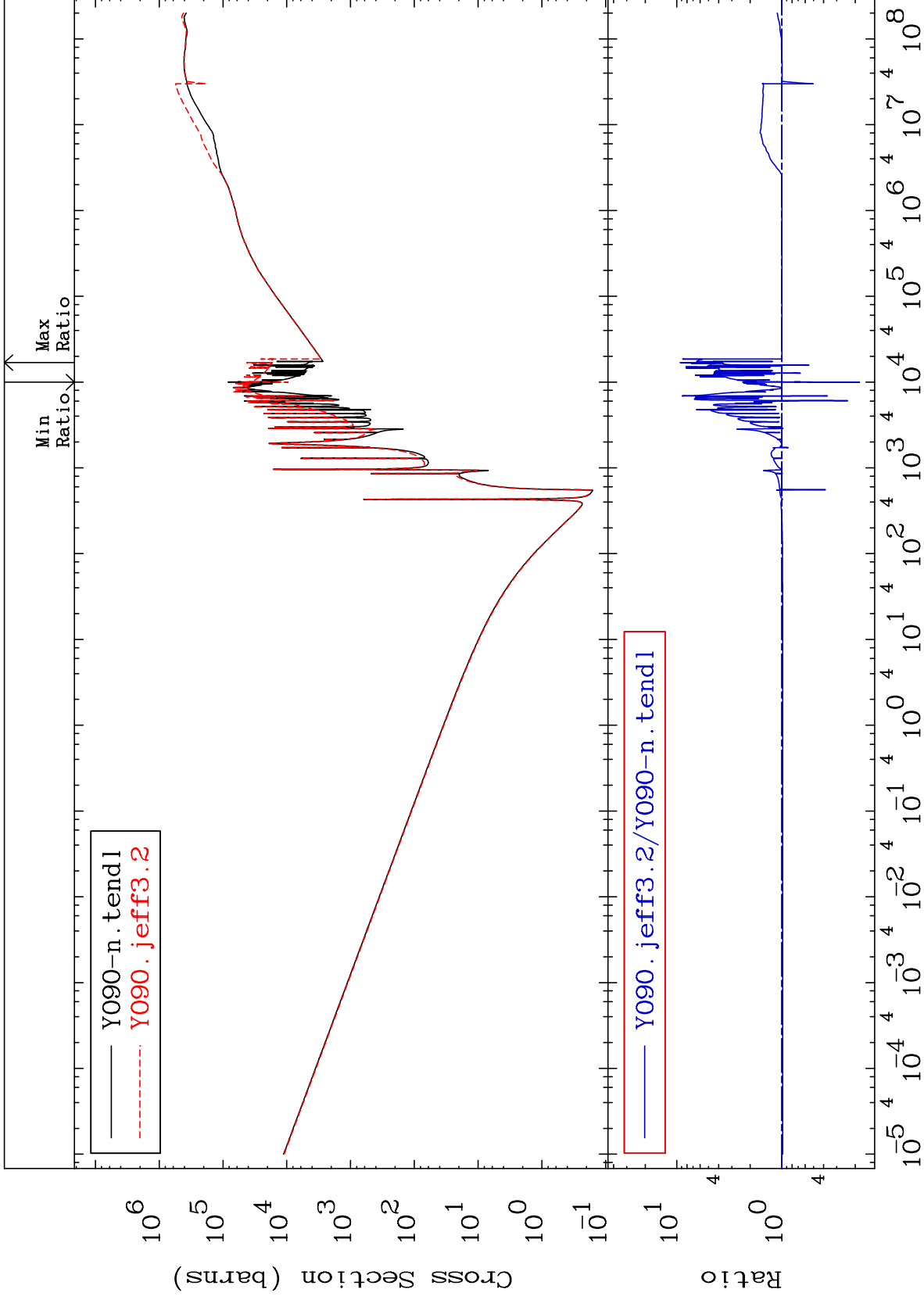


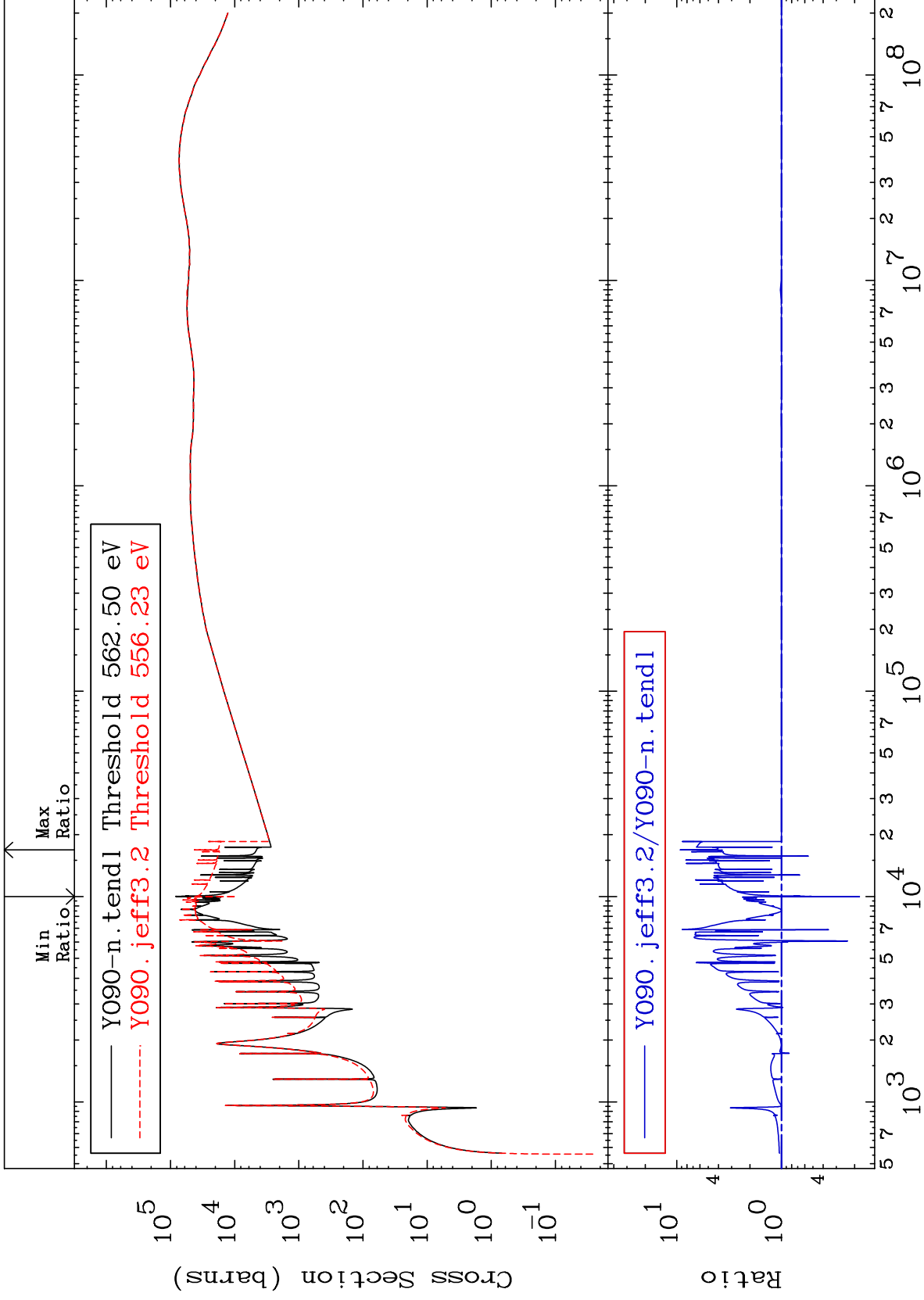


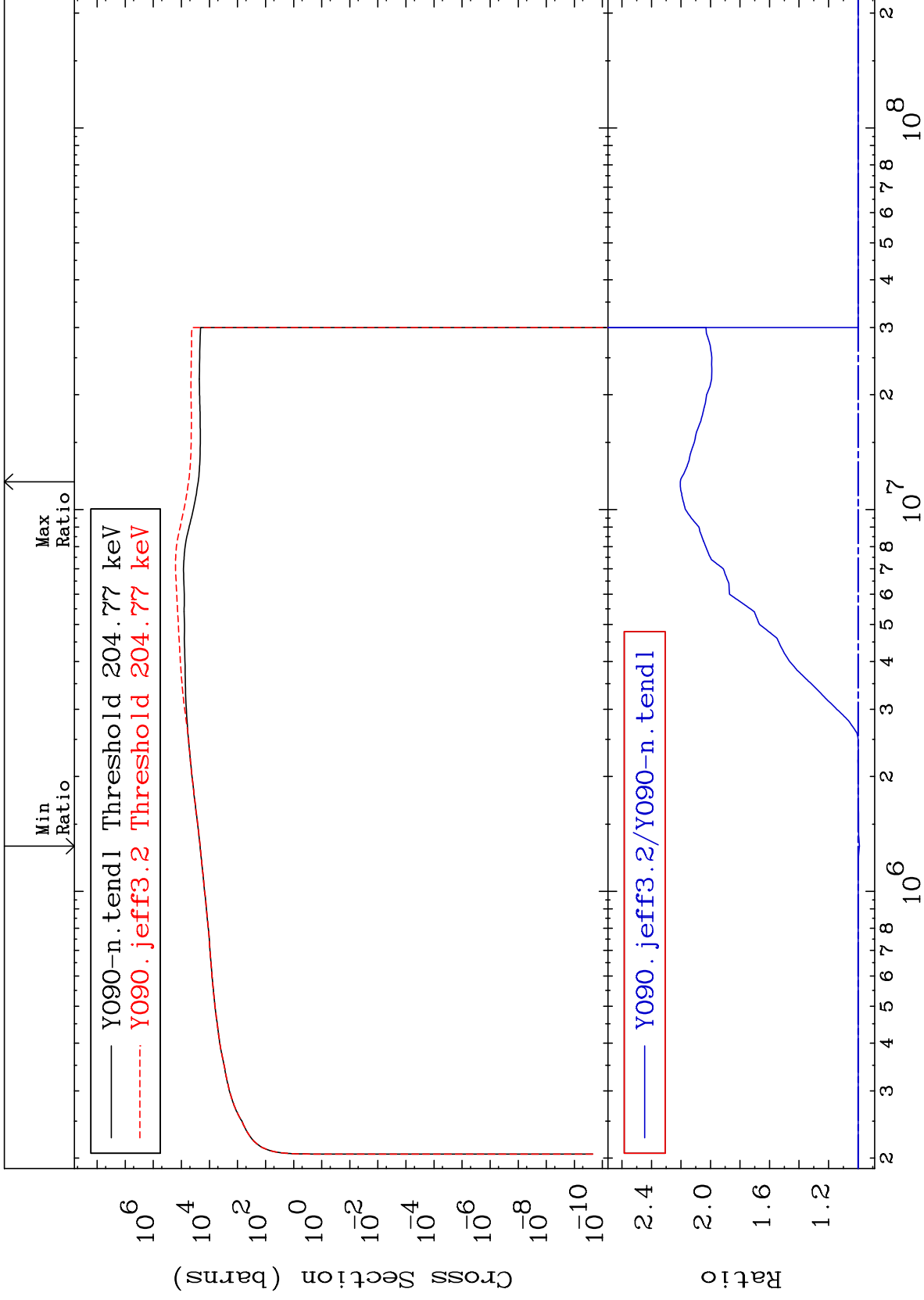


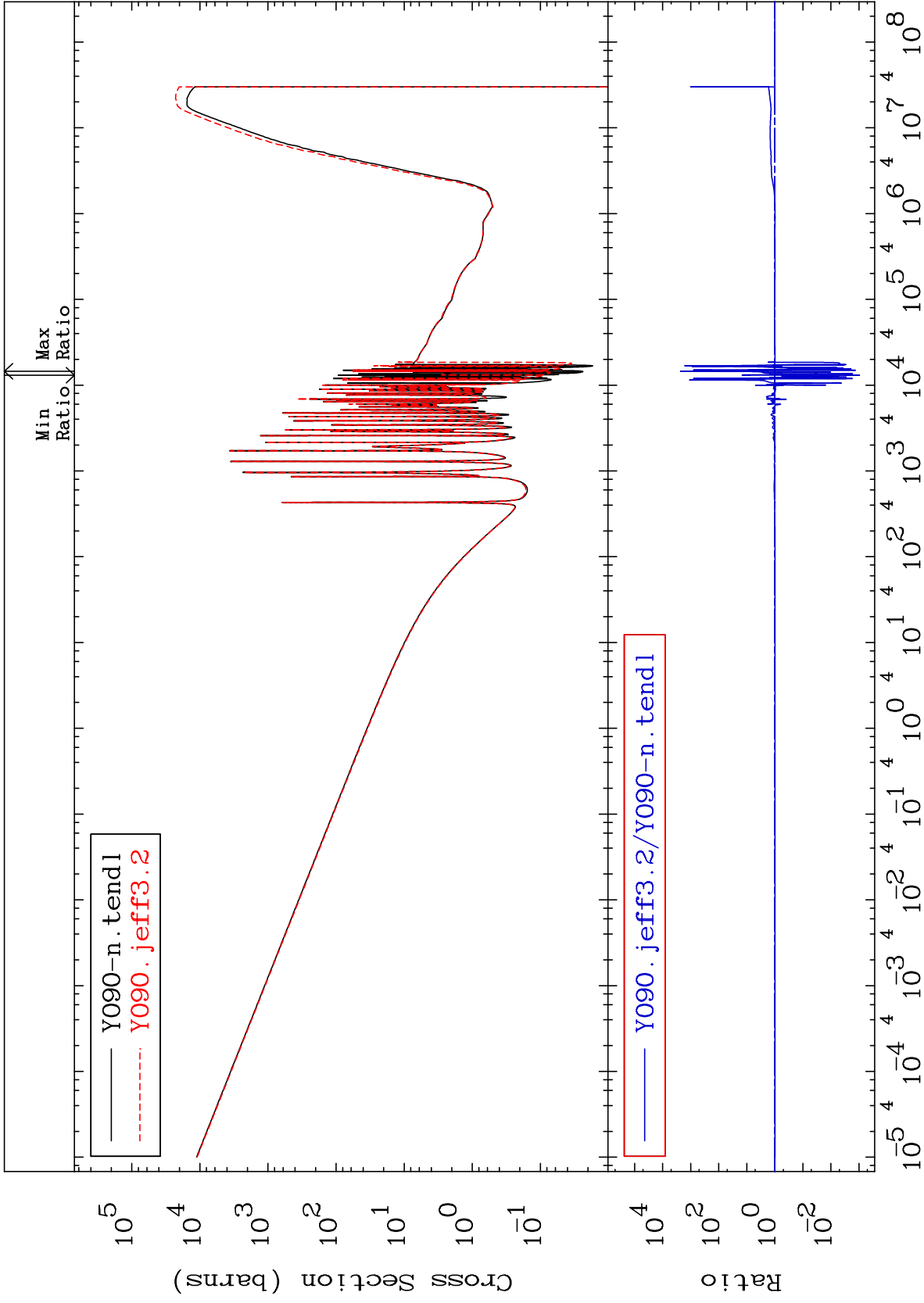








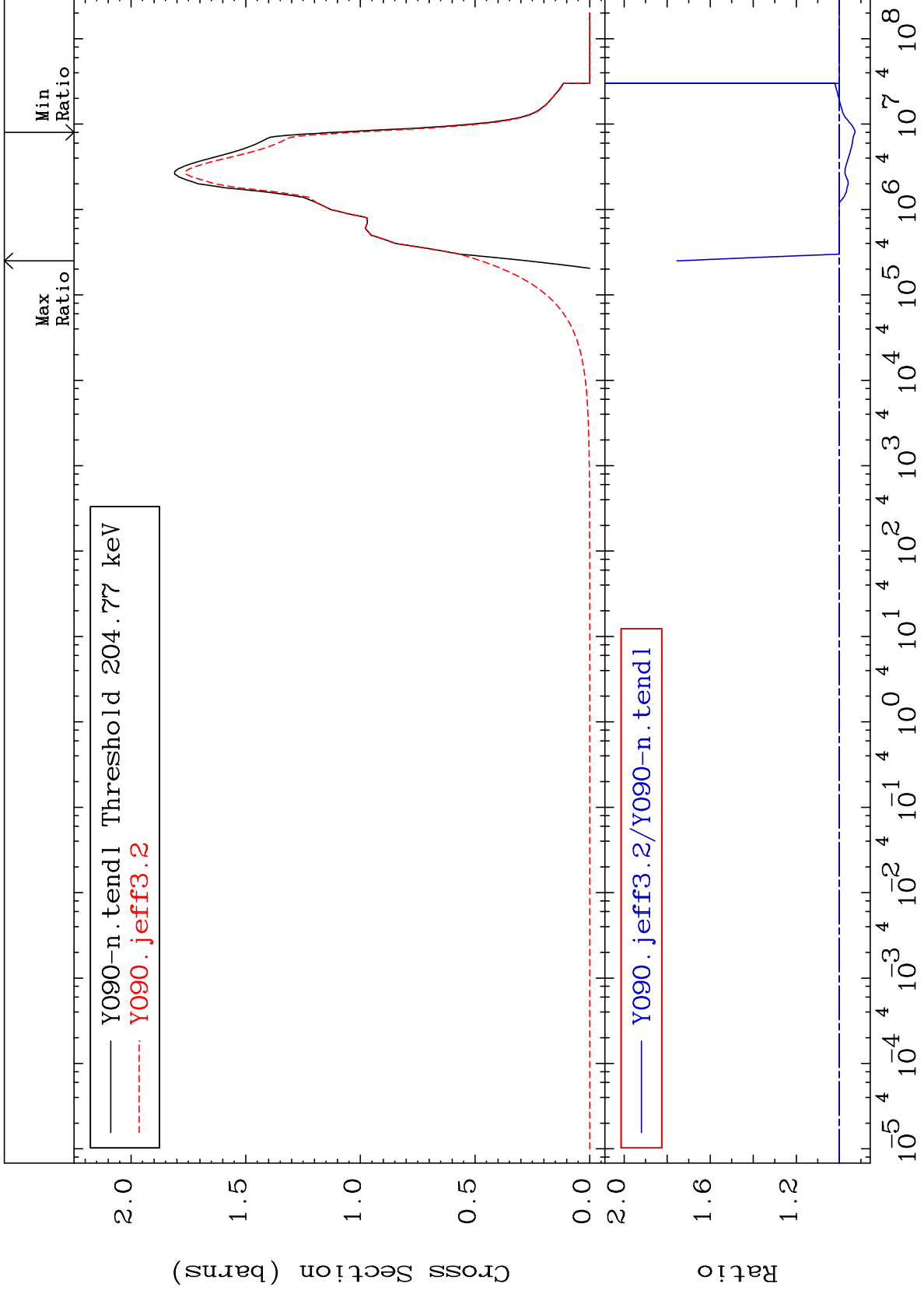




MAT 3928

Inelastic:39-Y -90g  
Radionuclide Production Cross Section -7.319 To 75.46 %

39-Y -90



79

Incident Energy (eV)

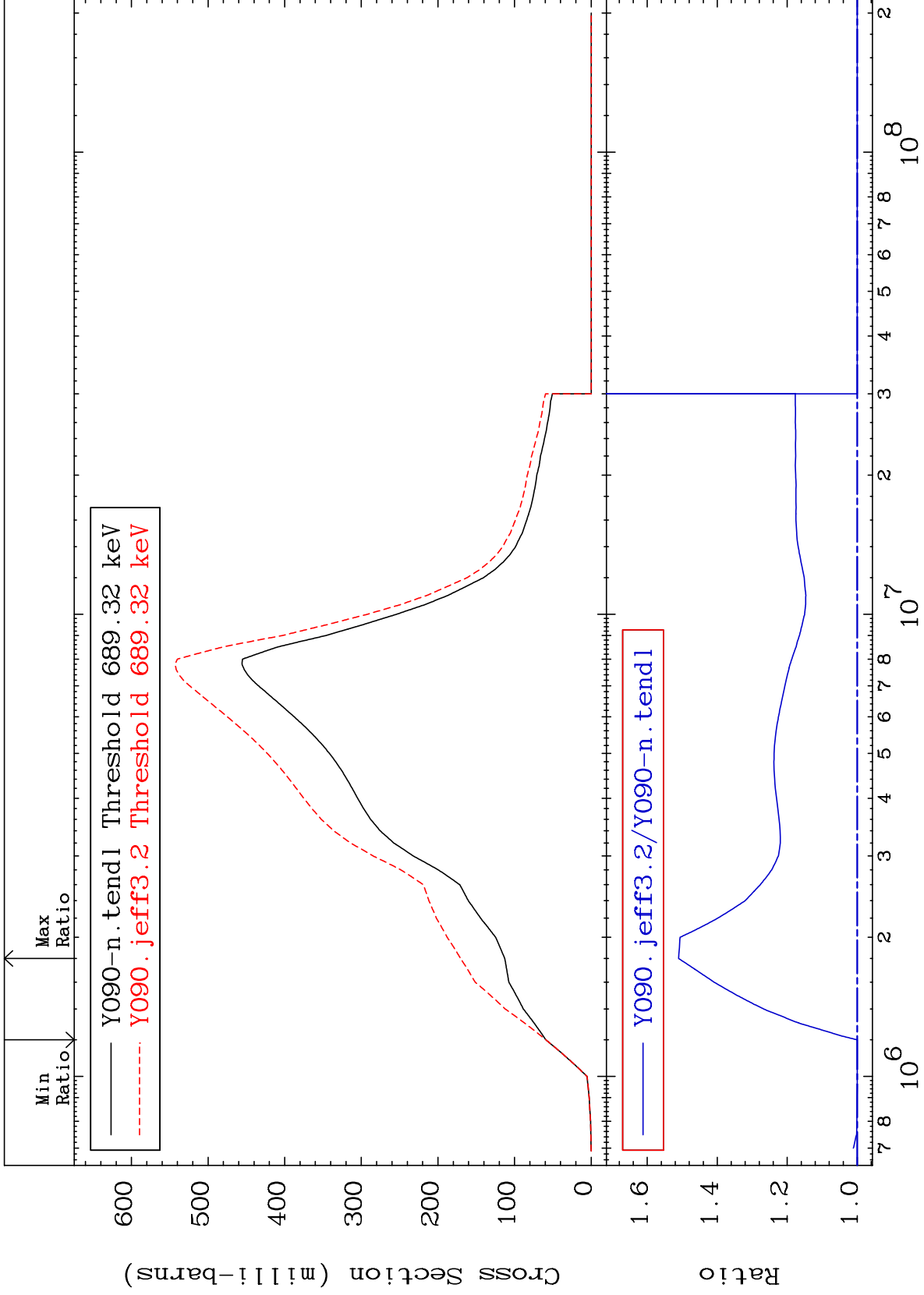
39-Y -90

MAT 3928

Inelastic:39-Y -90m2

39-Y -90

Radionuclide Production Cross Section -0.002 To 51.03 %

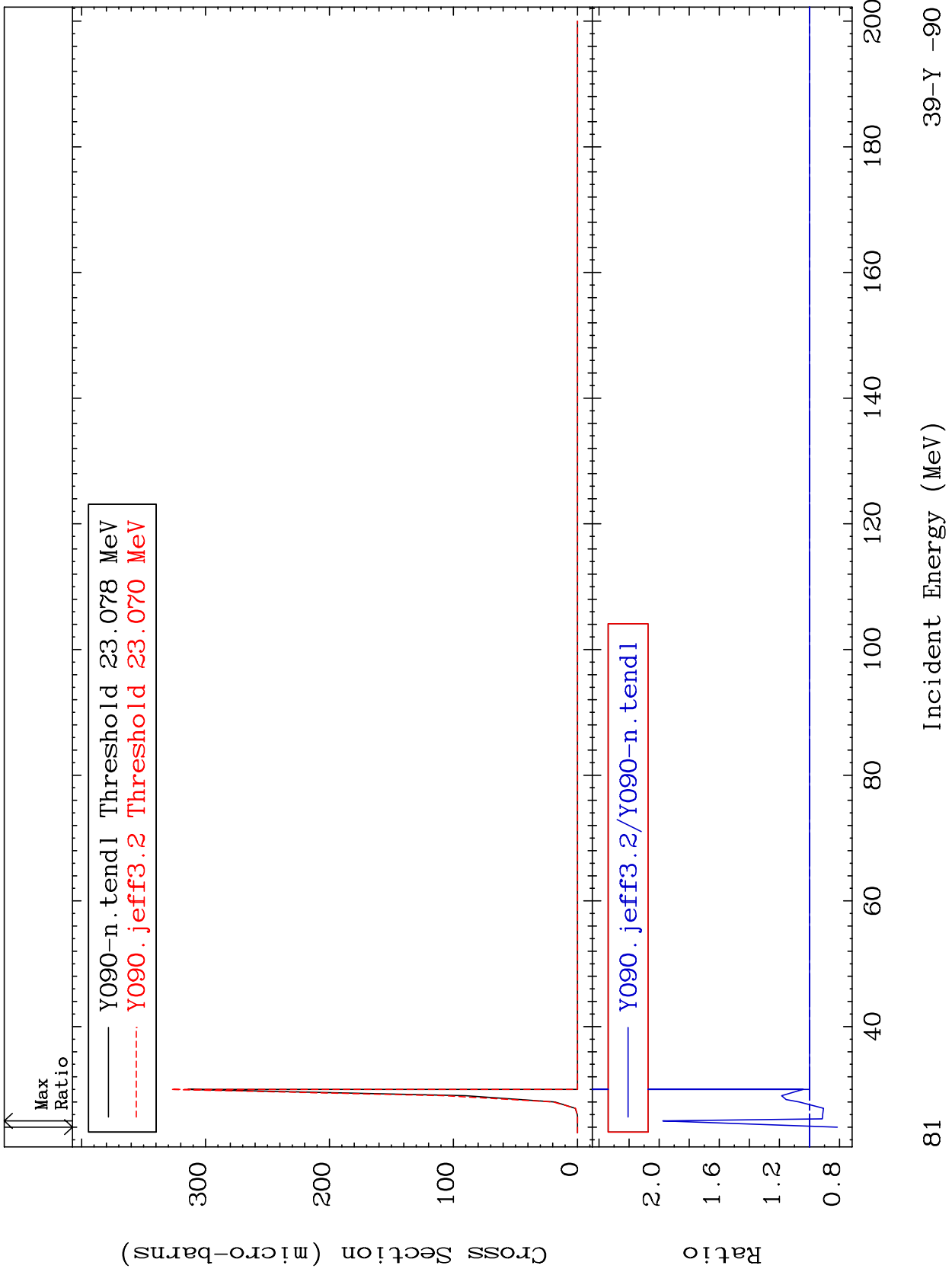


80

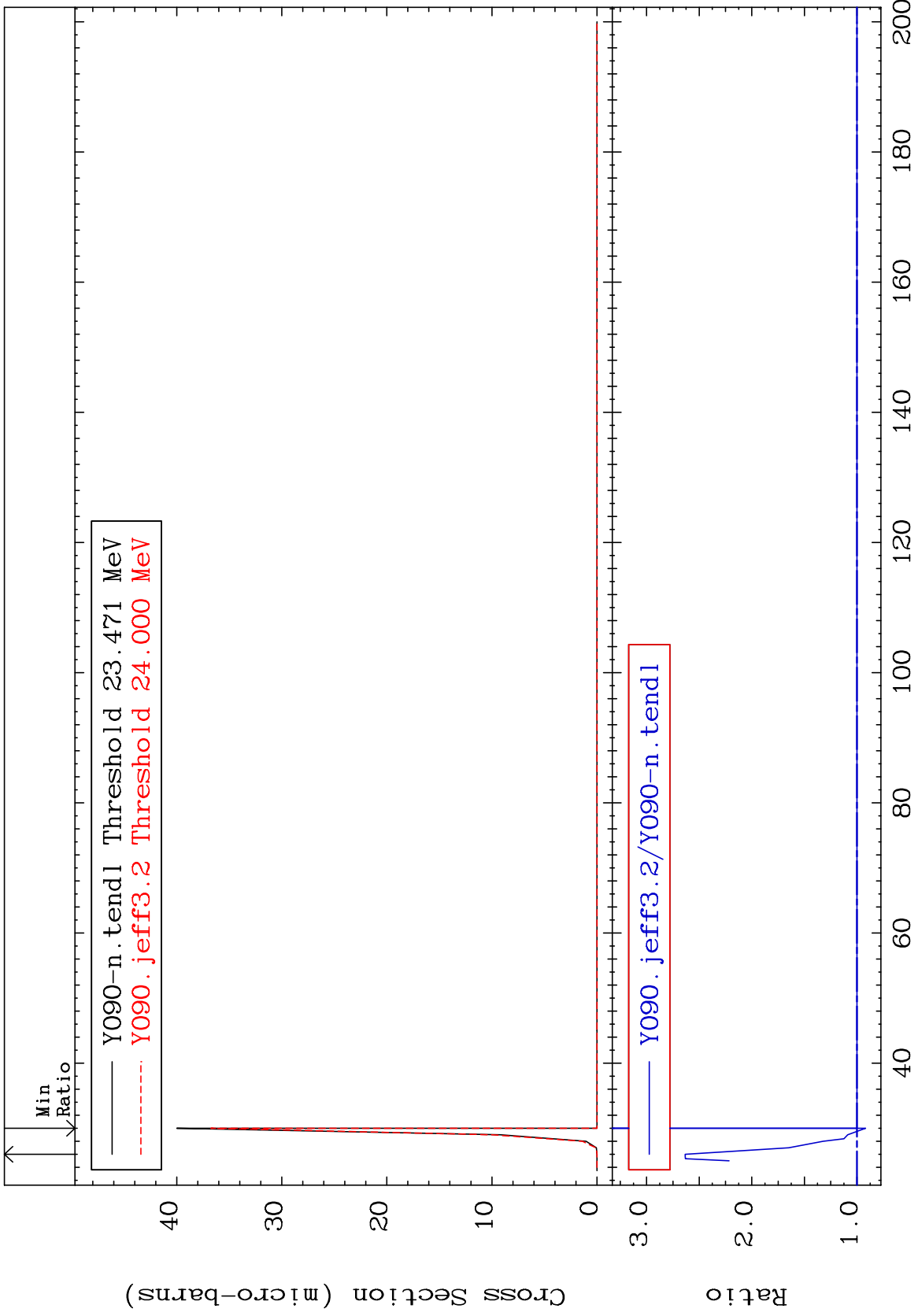
Incident Energy (eV)

39-Y -90





Radionuclide Production Cross Section -8.161 To 163.3 %

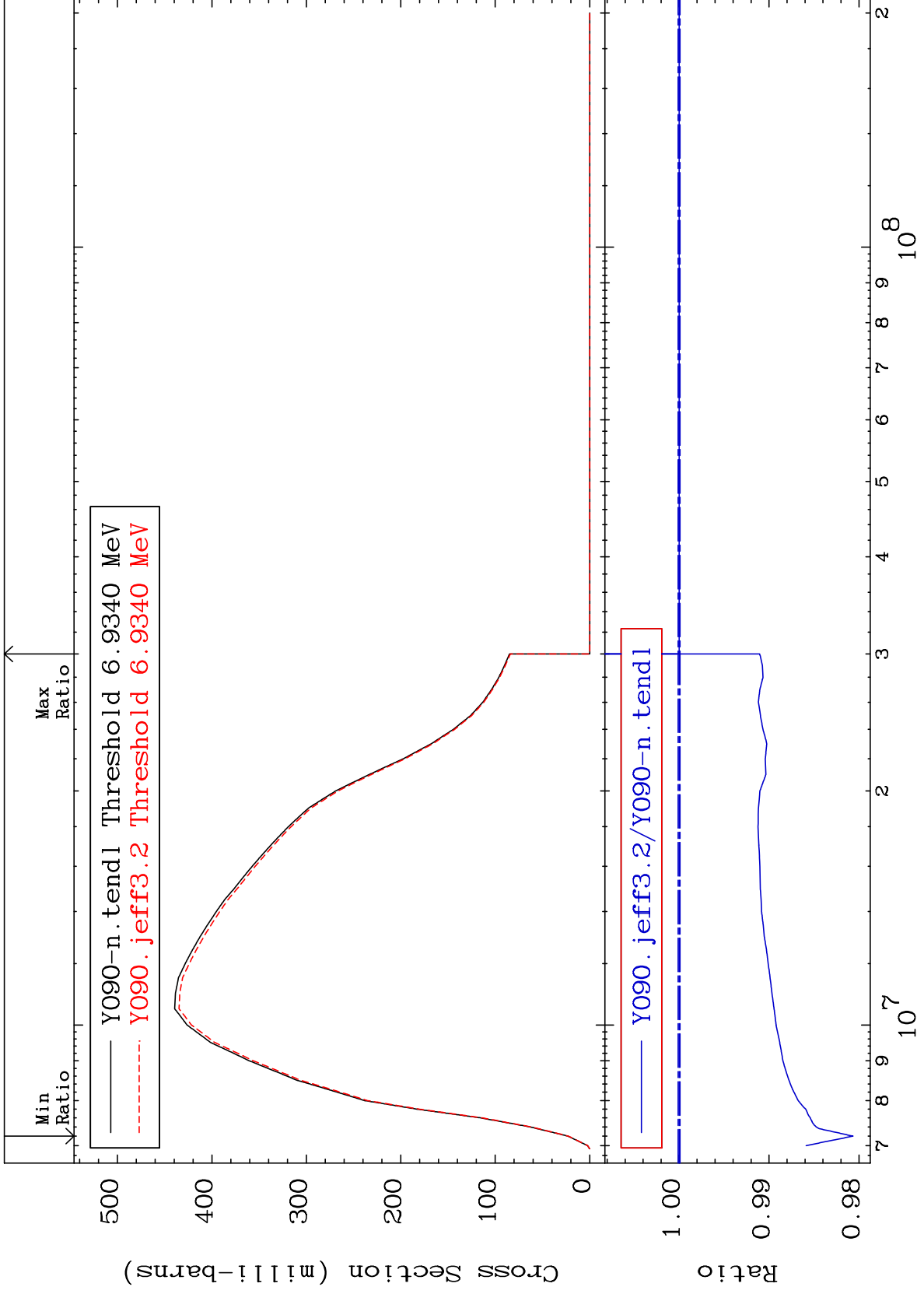


MAT 3928

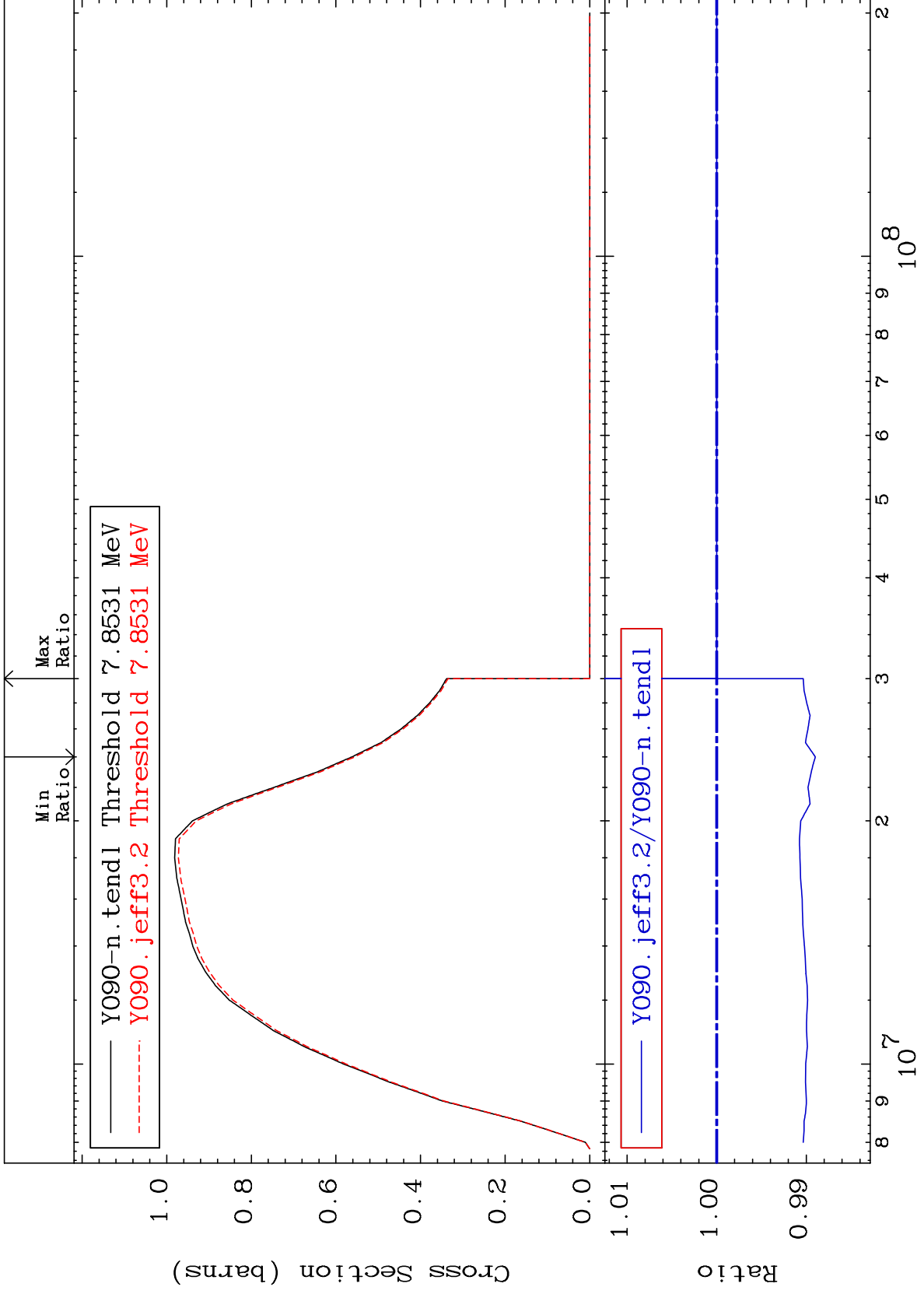
(n,2n):39-Y -89g

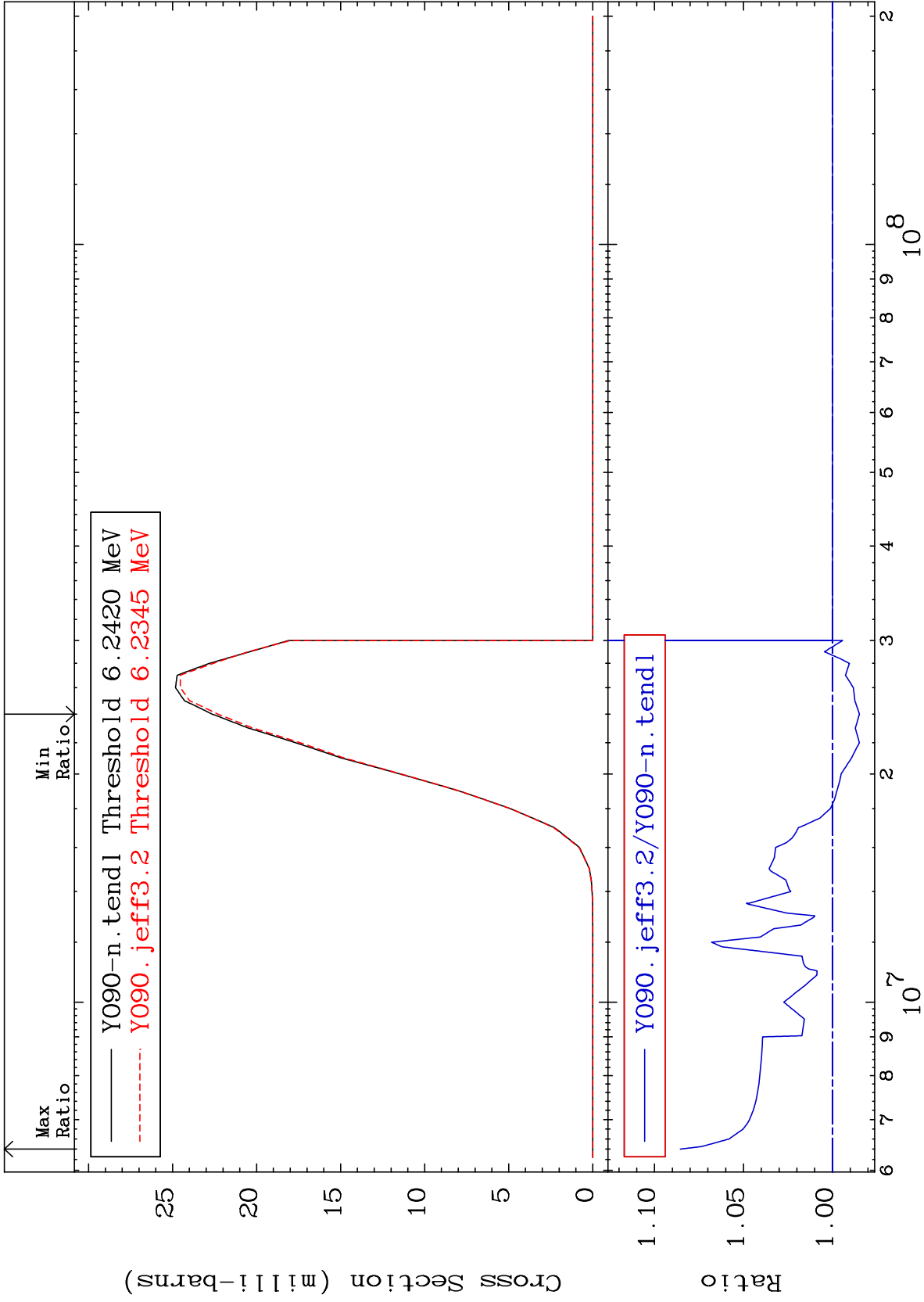
39-Y -90

Radionuclide Production Cross Section -1.932 To 0.000 %

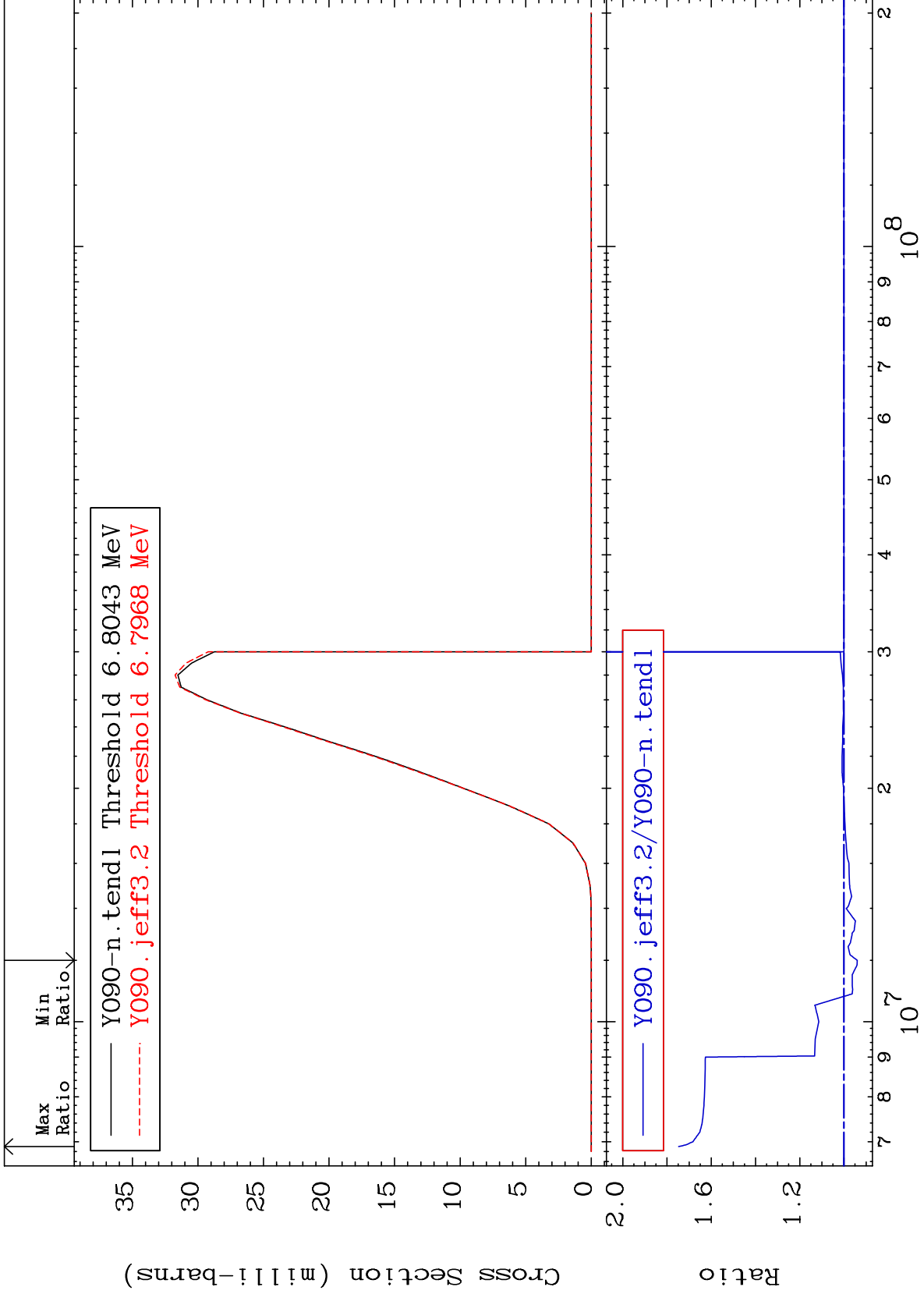


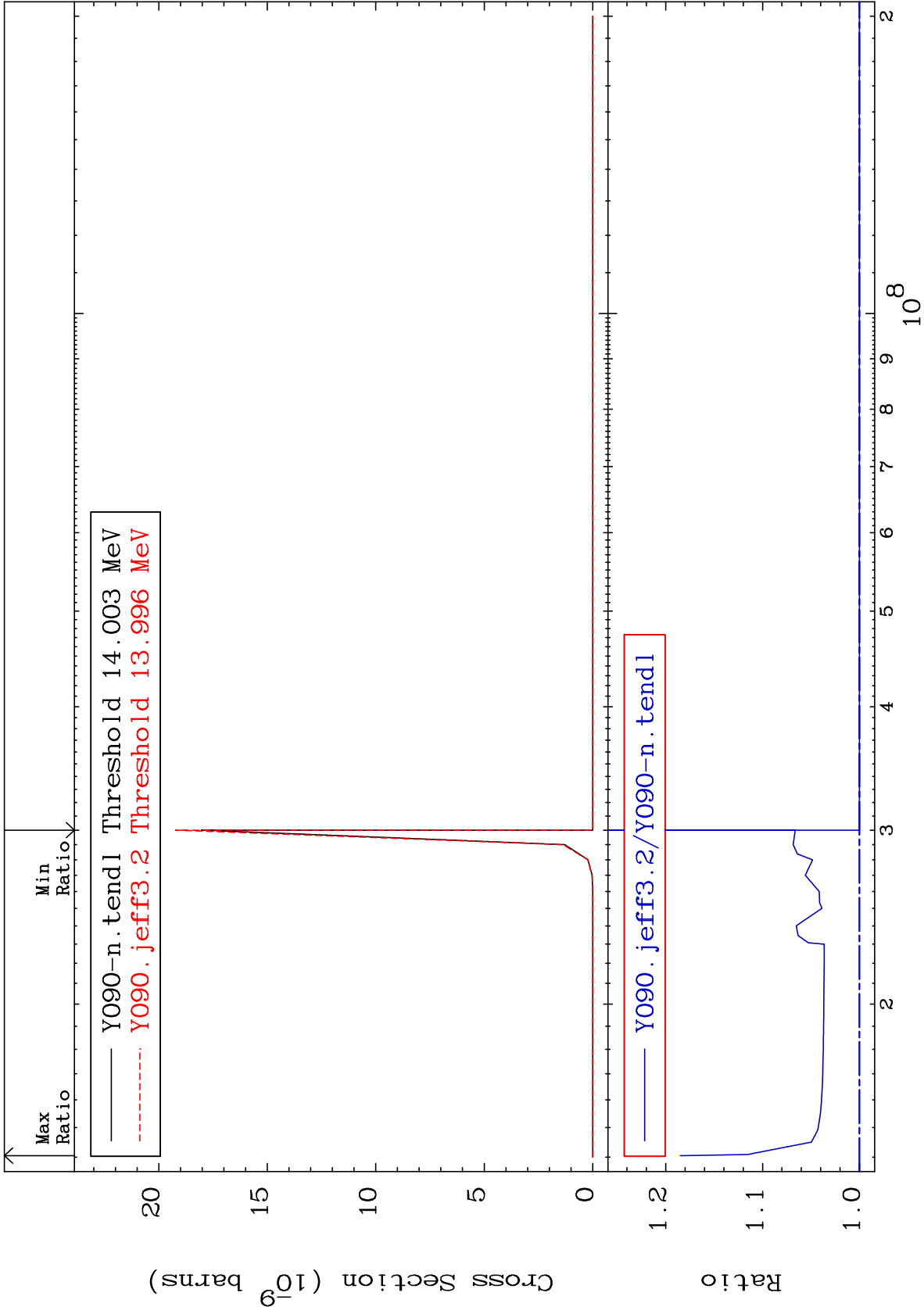
Radionuclide Production Cross Section -1.101 To 0.000 %



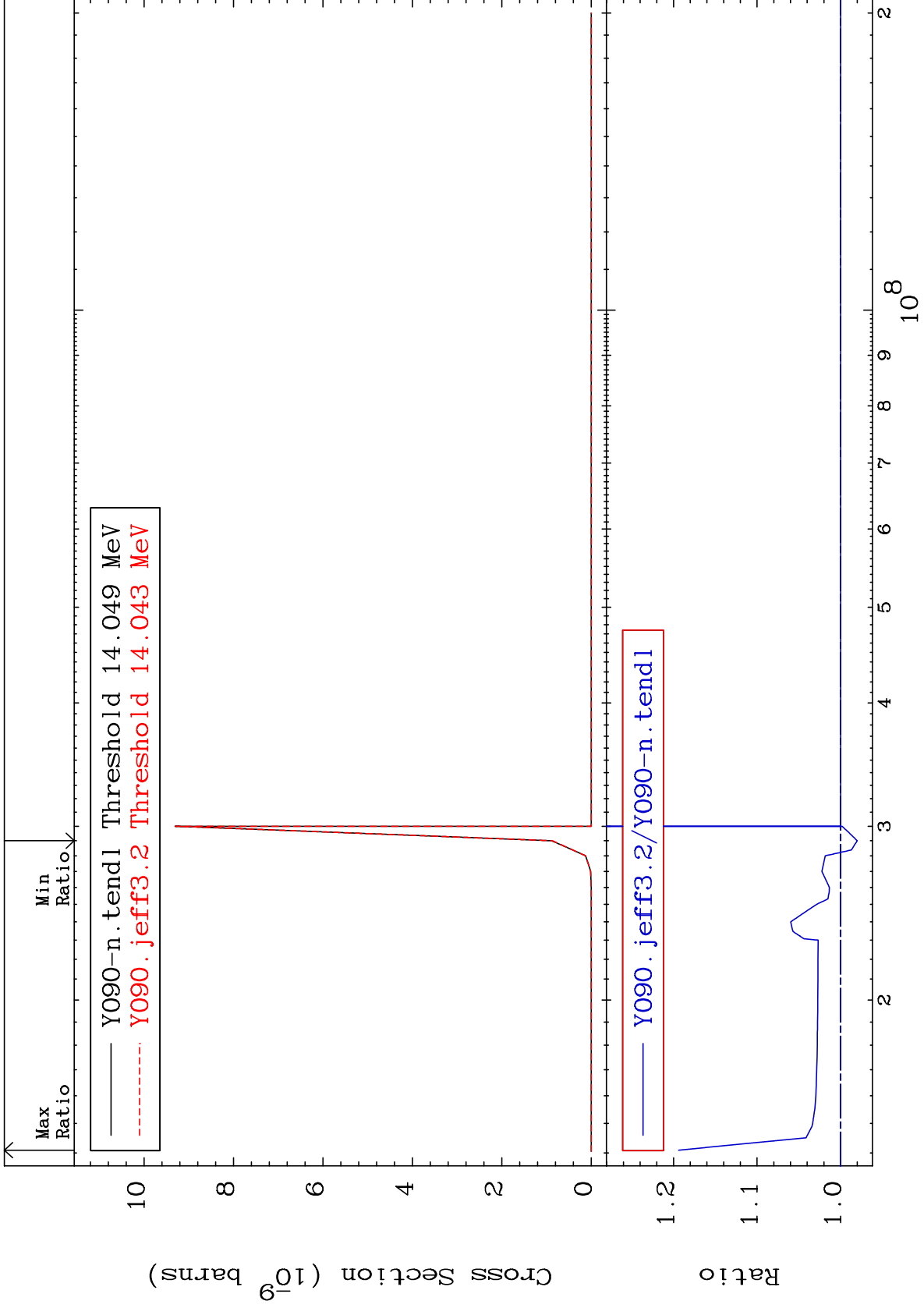


Radionuclide Production Cross Section -5.999 To 74.75 %



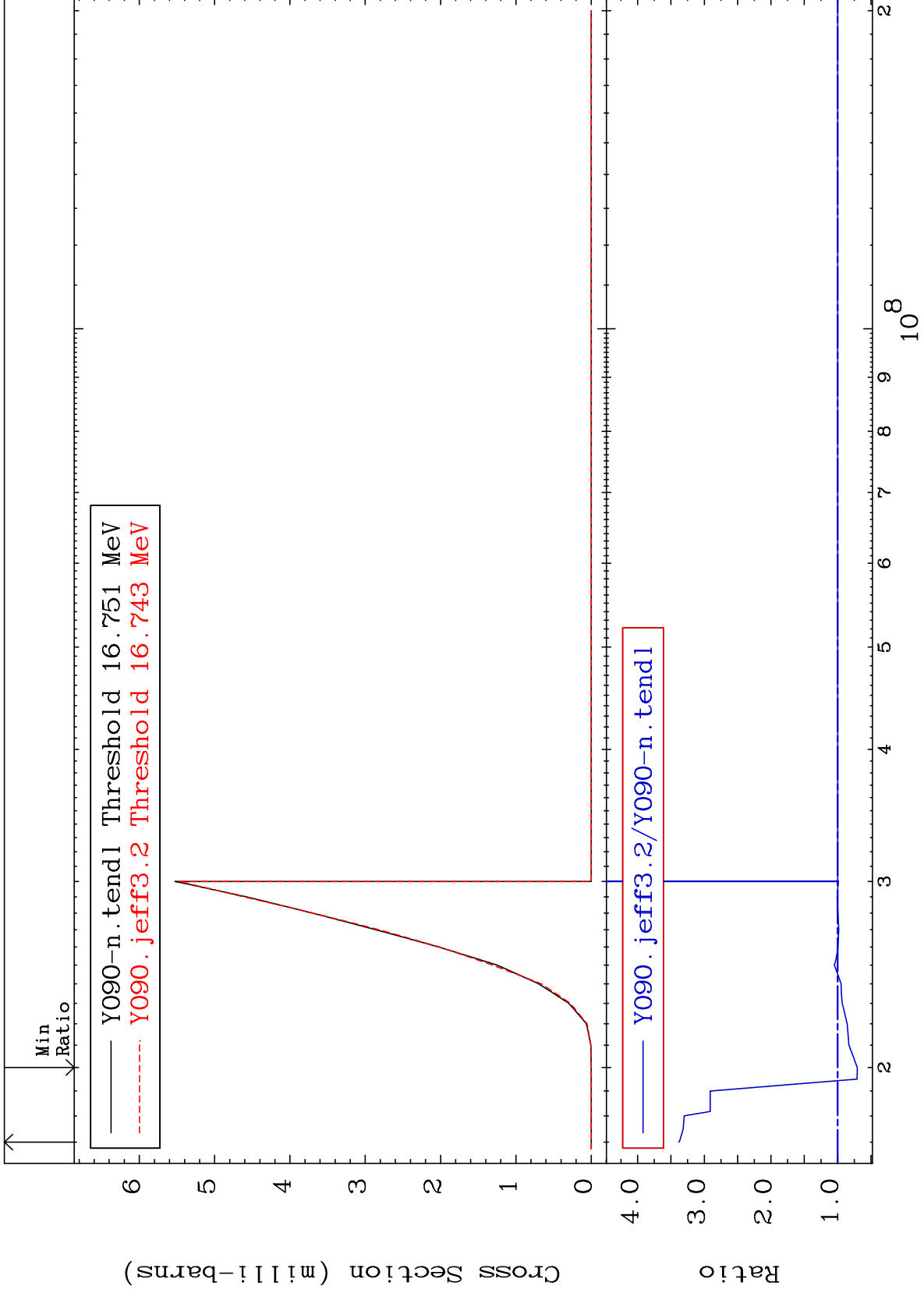


Radionuclide Production Cross Section -1.995 To 19.39 %

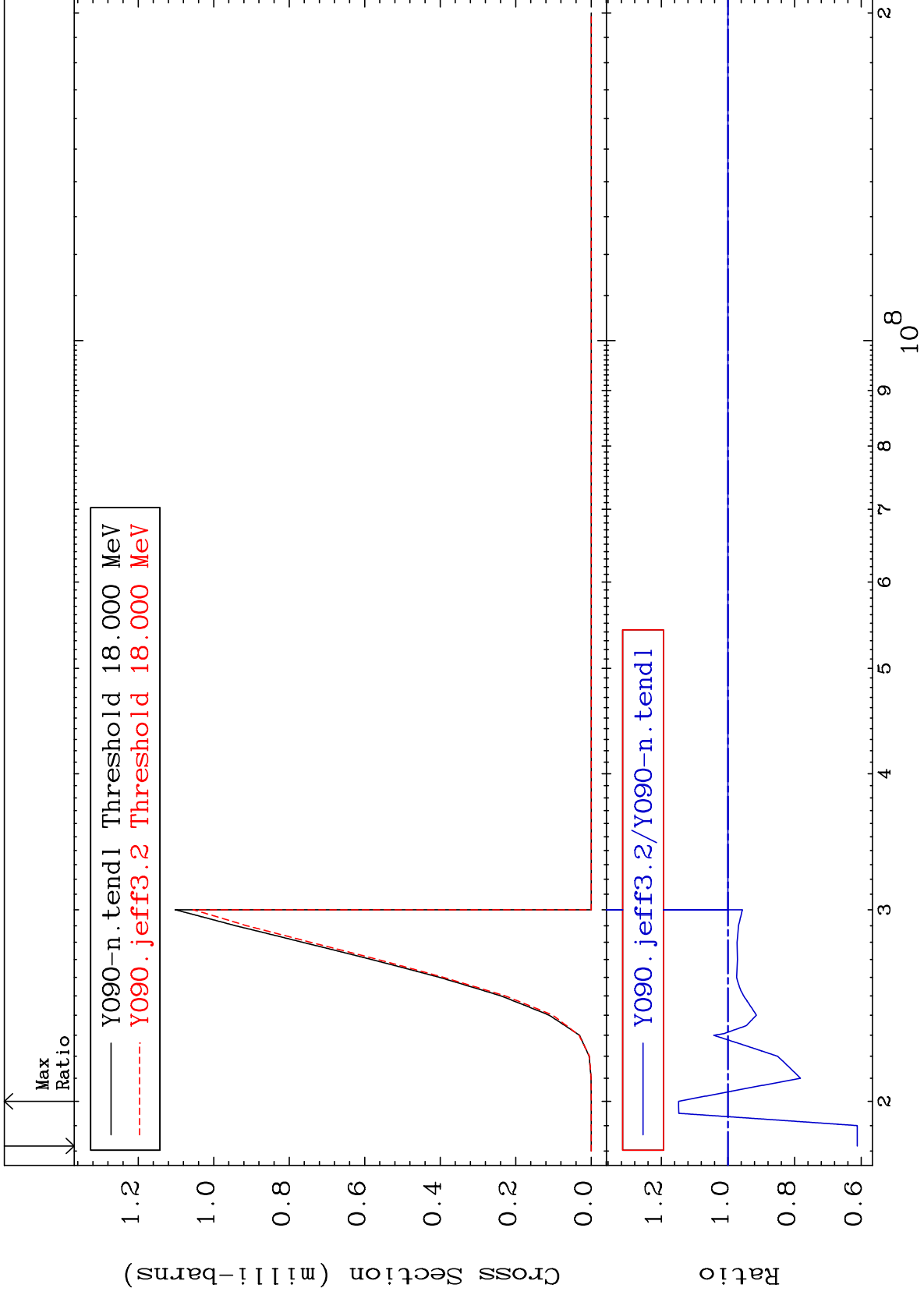




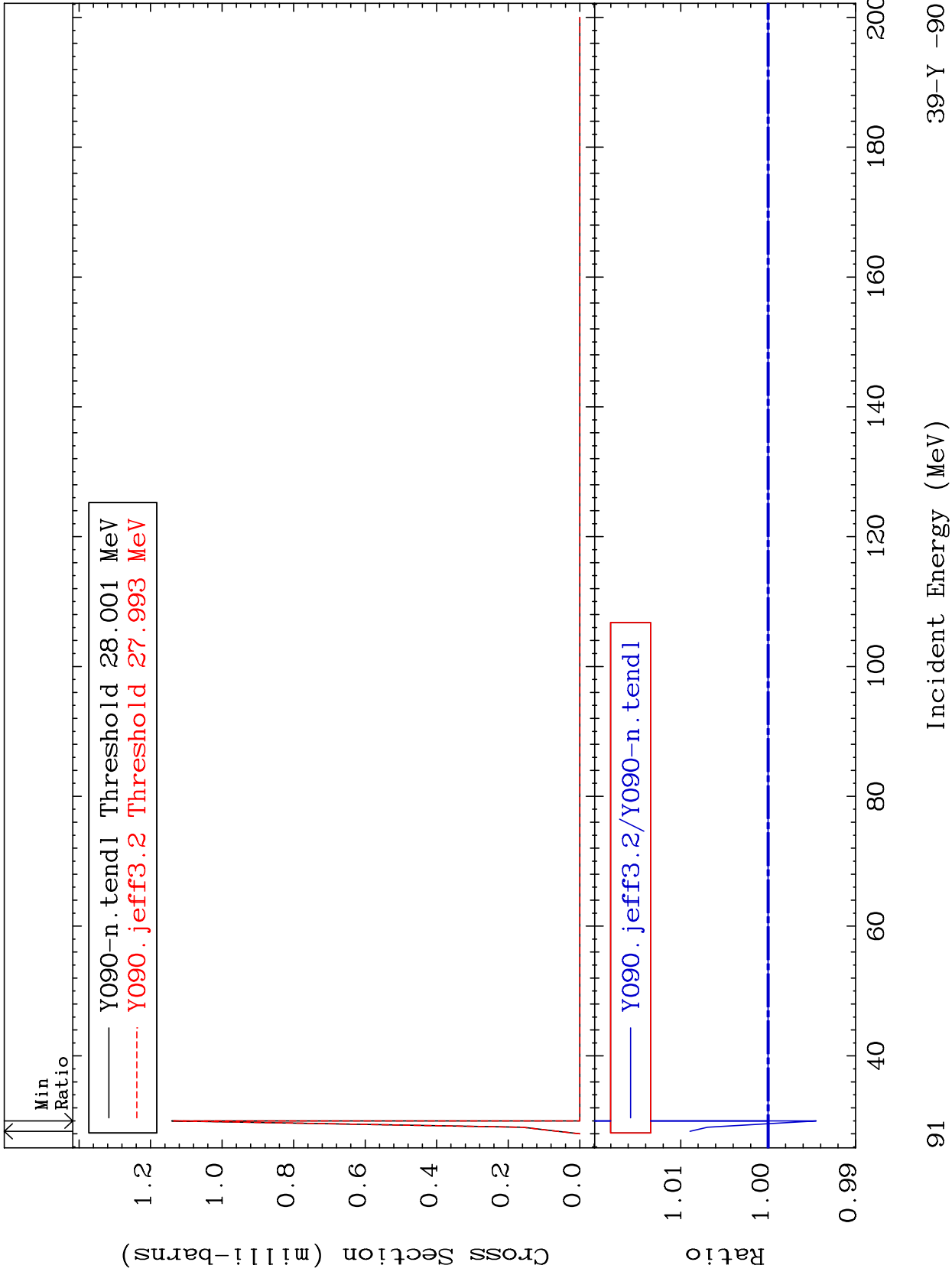
Radionuclide Production Cross Section -29.40 To 238.5 %



Radionuclide Production Cross Section -38.82 To 14.81 %



Radionuclide Production Cross Section -0.549 To 0.893 %

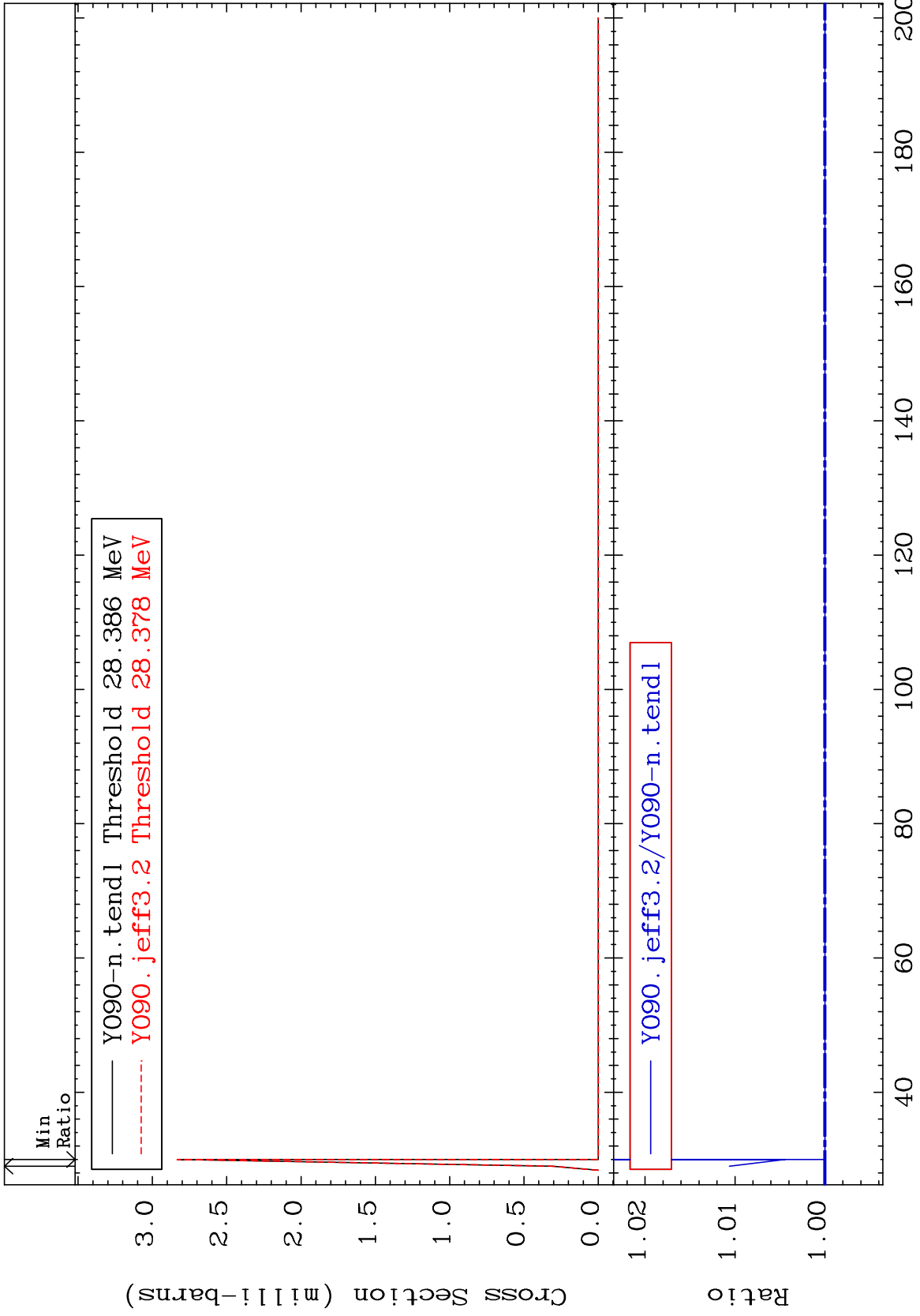


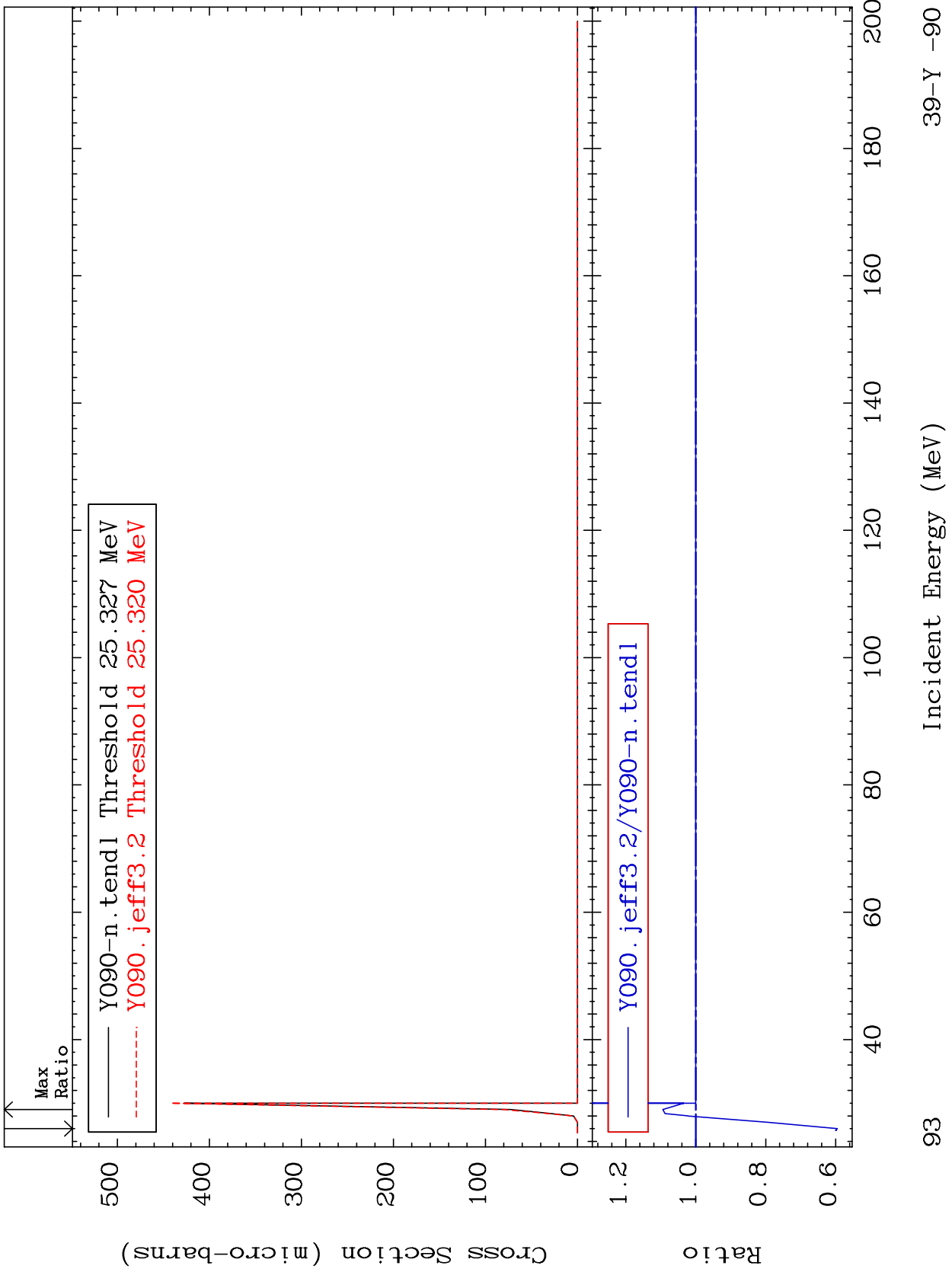
MAT 3928

(n,4n):39-Y -87m1

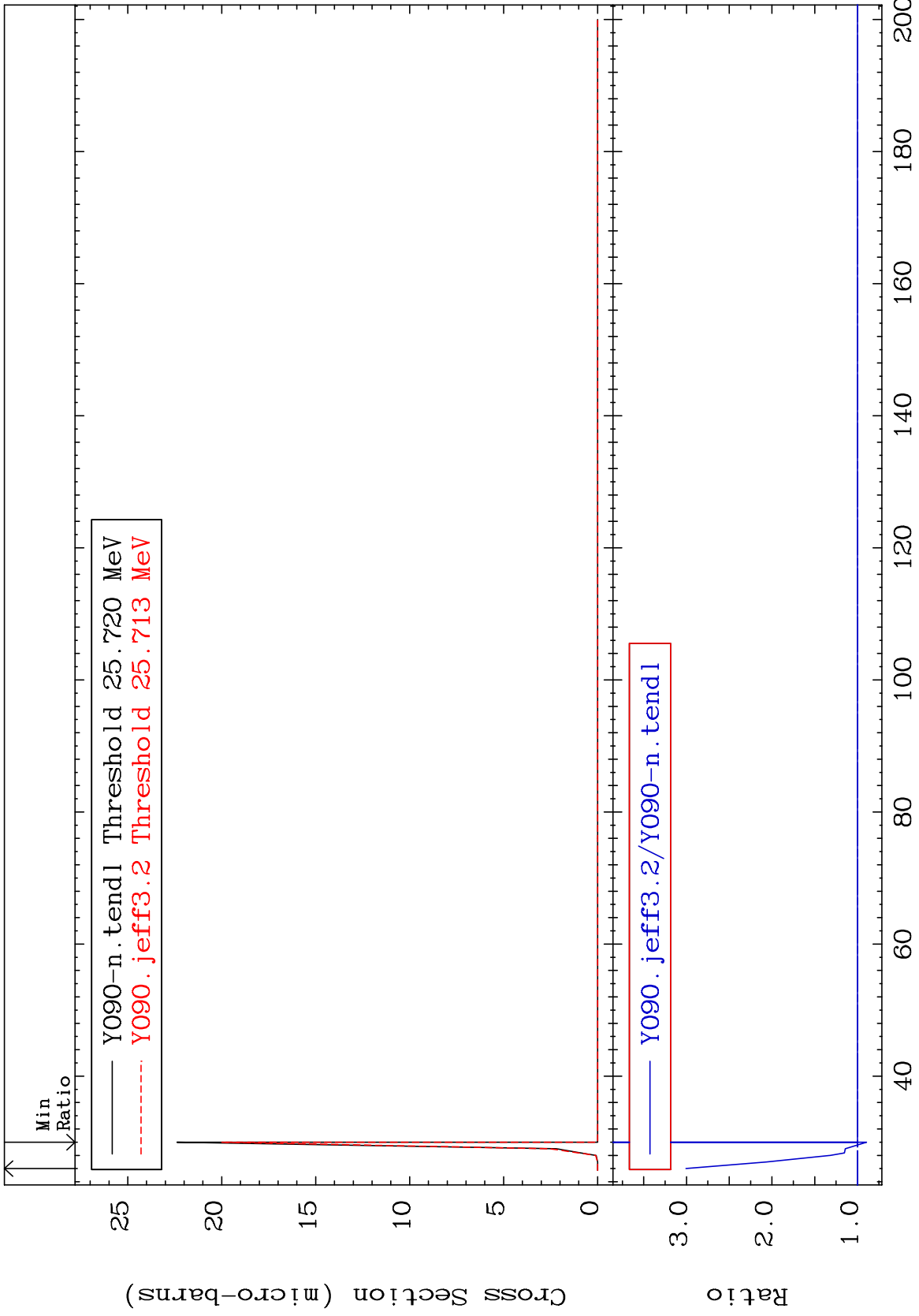
39-Y -90

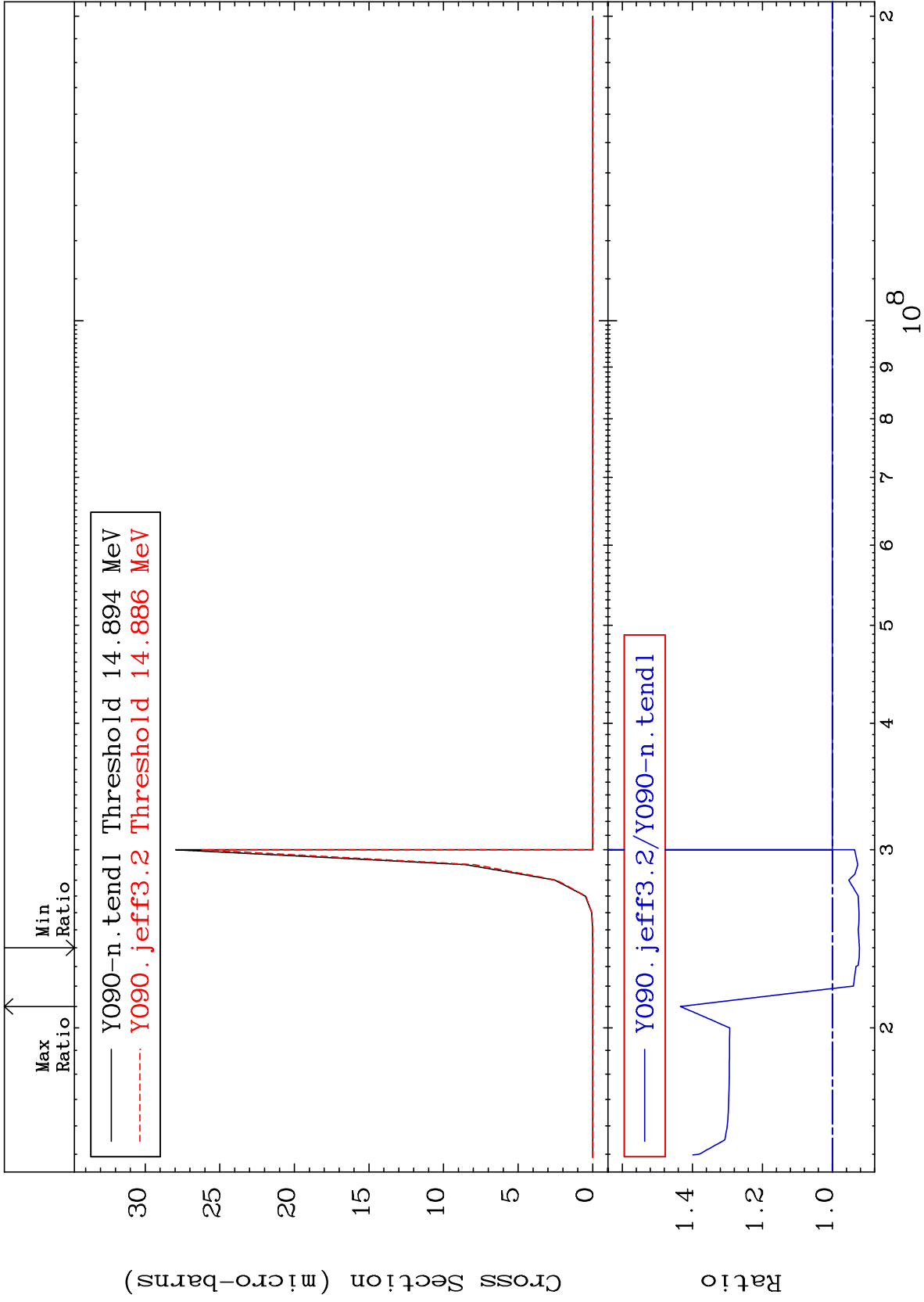
Radionuclide Production Cross Section 0.000 To 1.063 %



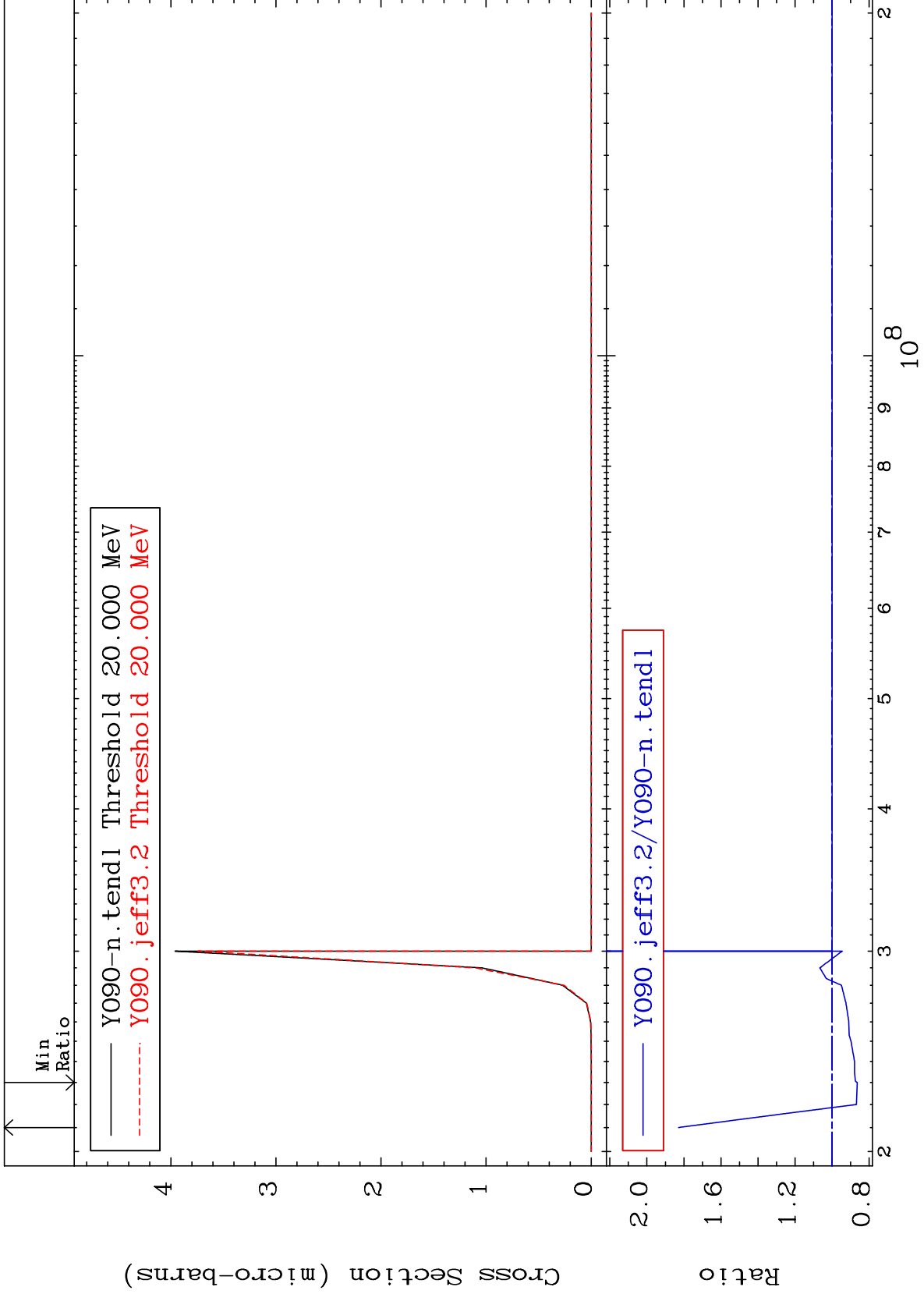


Radionuclide Production Cross Section -10.59 To 200.6 %



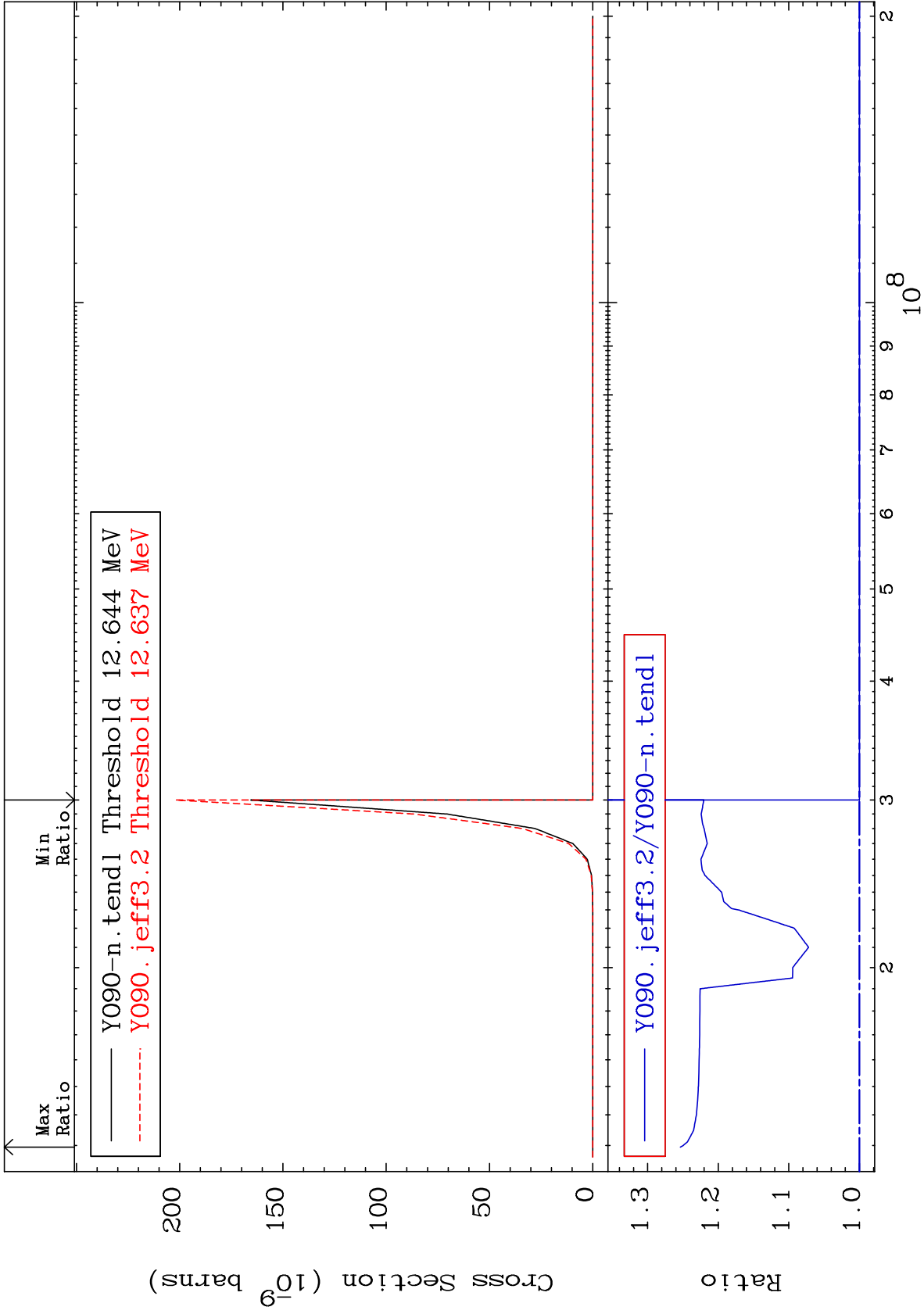


Radionuclide Production Cross Section -13.63 To 82.84 %





Radionuclide Production Cross Section 0.000 To 25.36 %



MAT 3928

(n, d)  $\alpha$ : 36-Kr-85m1

39-Y -90

Radionuclide Production Cross Section 0.000 To 32.91 %

