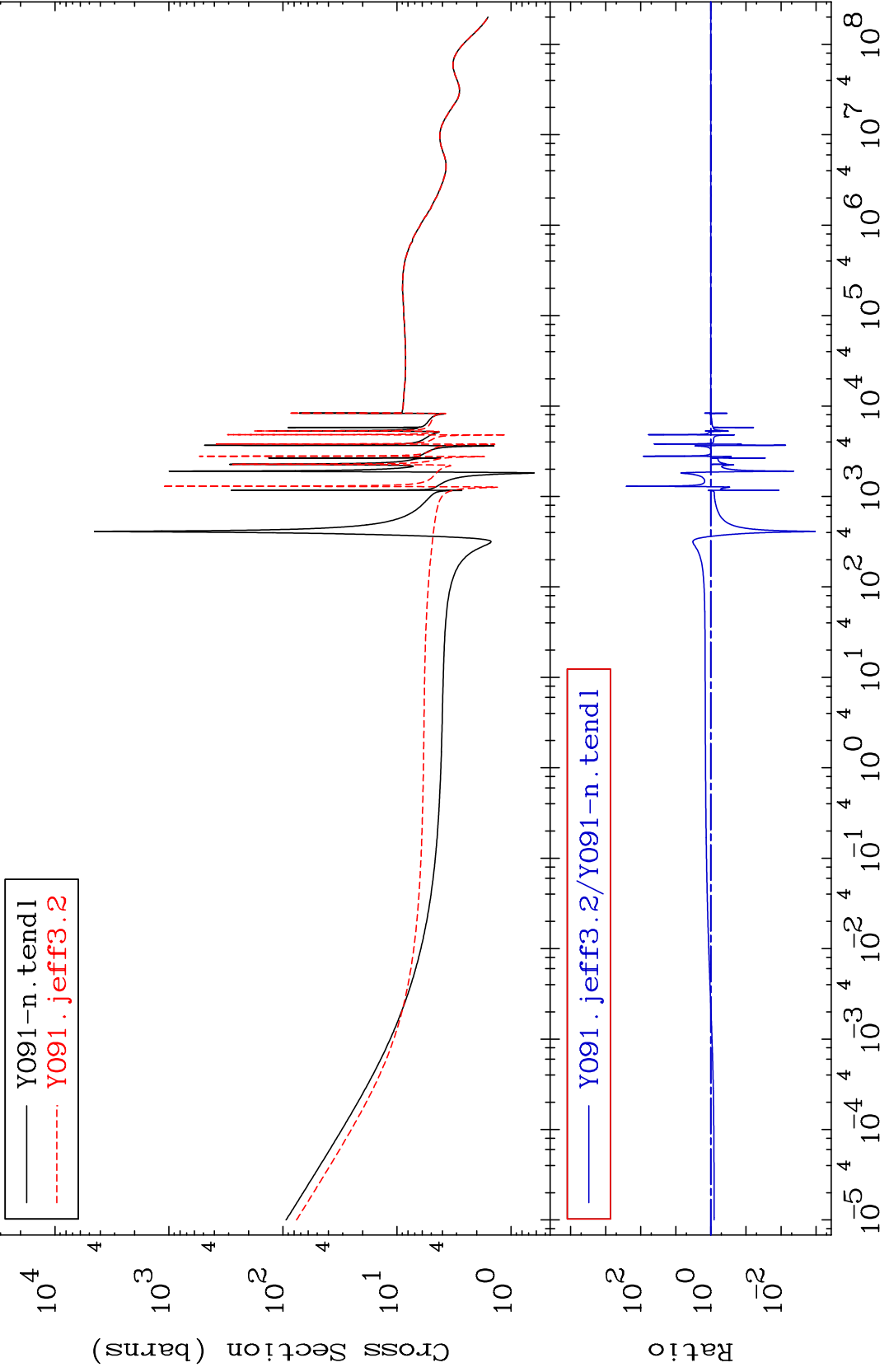


MAT 3931

Total
Cross Section

39-Y -91
-99.89 To 9999. %



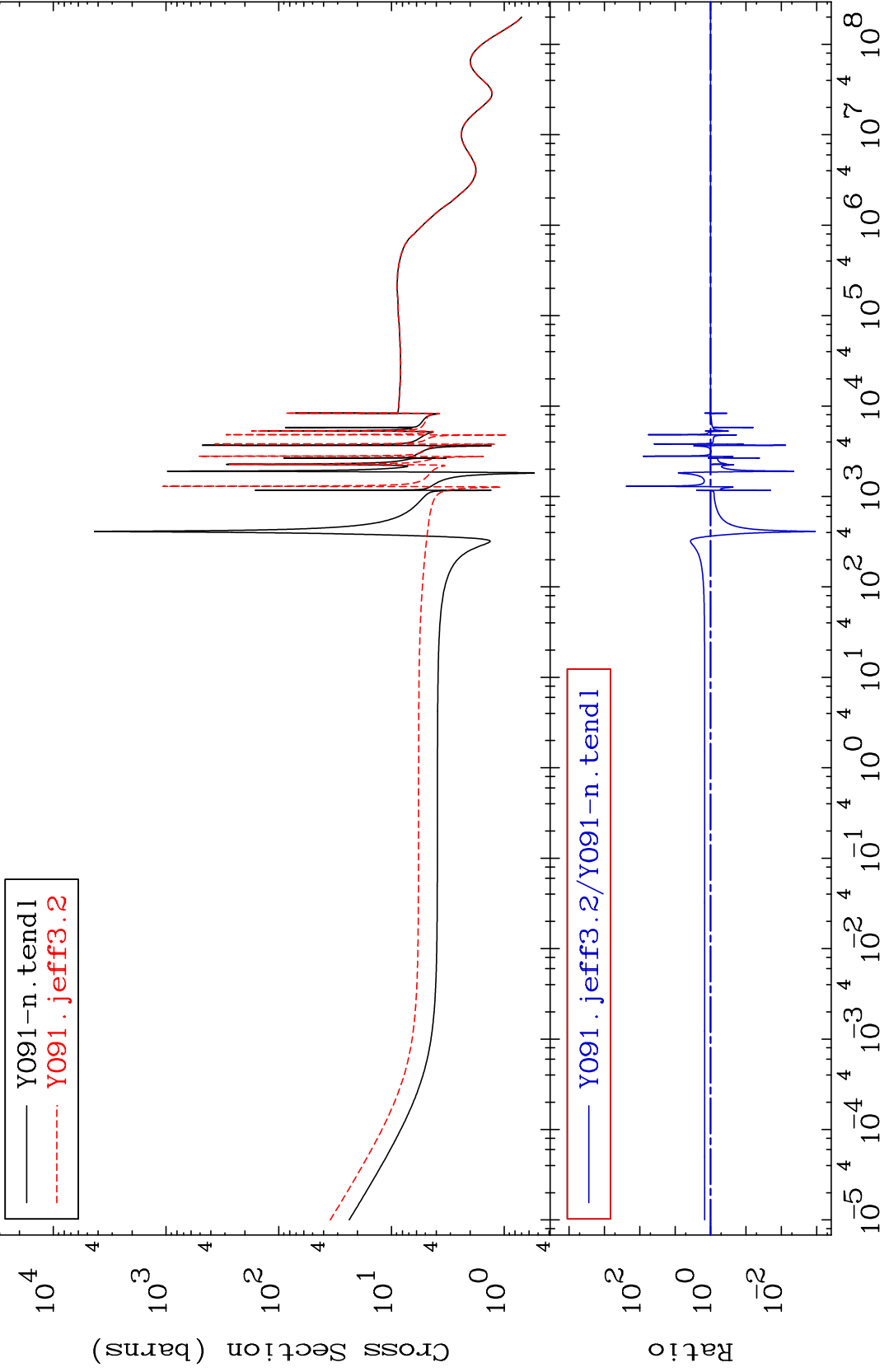
39-Y -91

Incident Energy (eV)

MAT 3931

Elastic
Cross Section

39-Y -91
-99.89 To 9999. %



2

Incident Energy (eV)

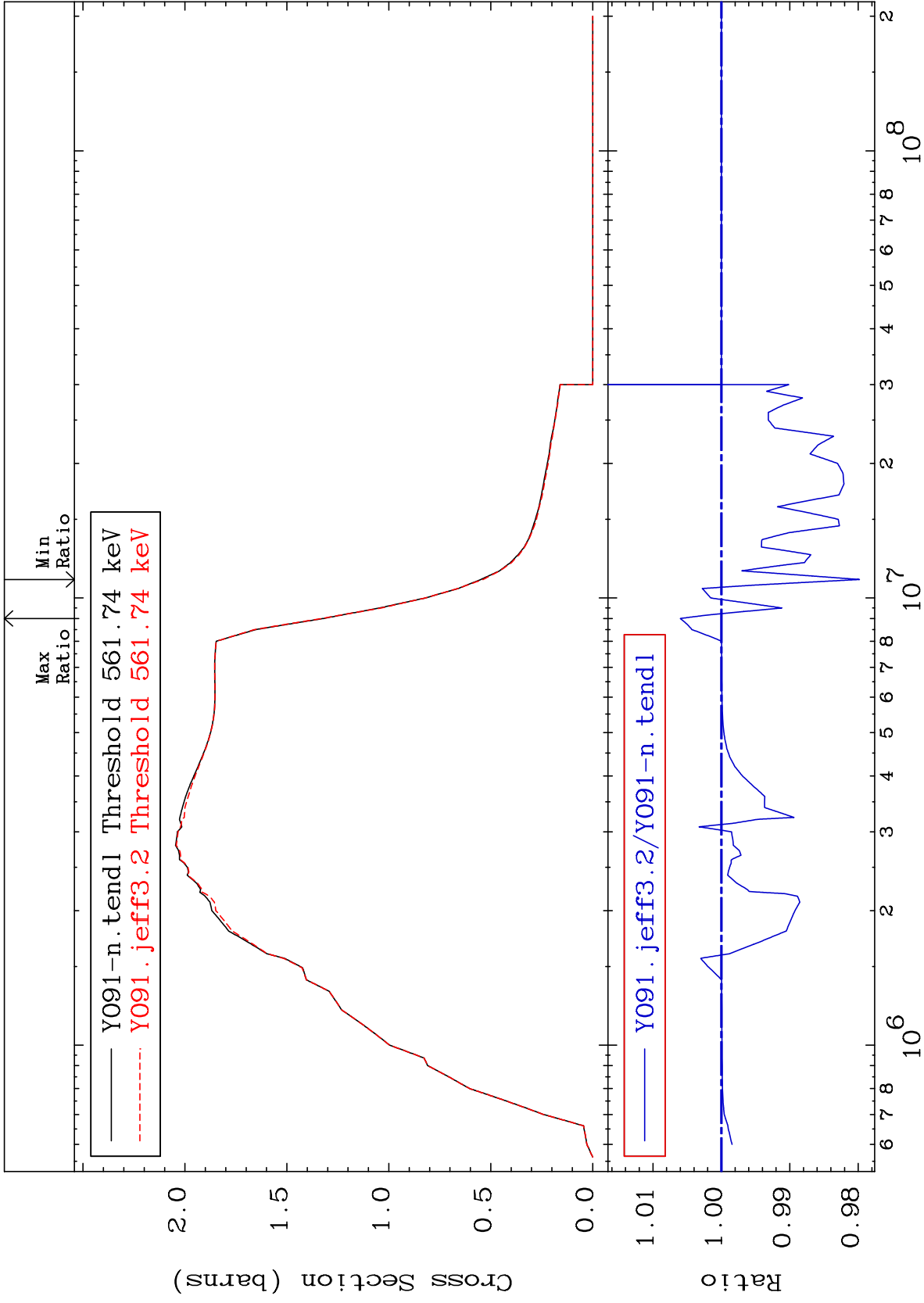
39-Y -91

MAT 3931

39-Y -91

-2.018 To 0.599 %

Inelastic
Cross Section



3

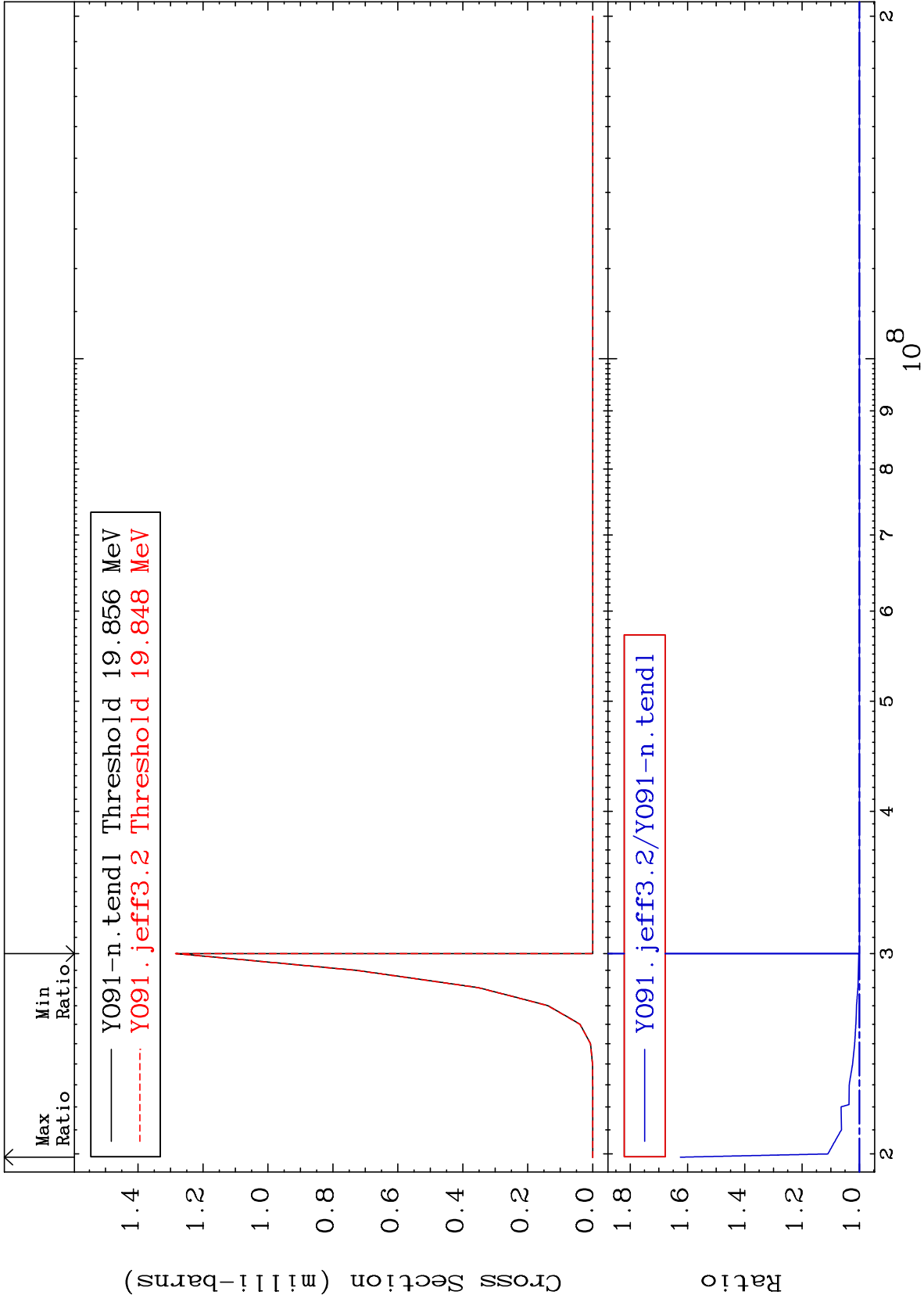
Incident Energy (eV)

39-Y -91

MAT 3931

(n,2n) d
Cross Section

39-Y -91
0.000 To 62.50 %



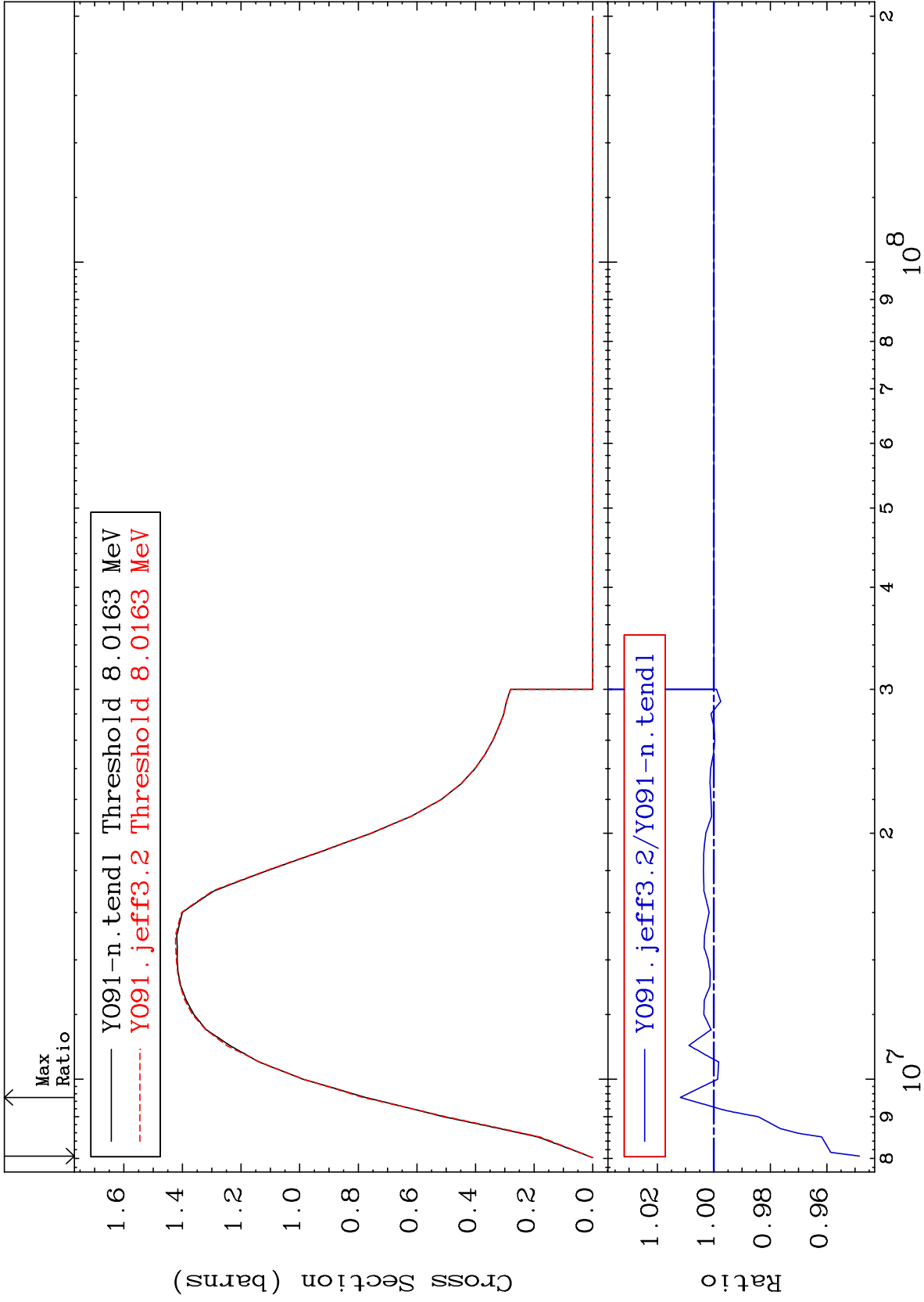
MAT 3931

(n,2n)

39-Y -91

Cross Section

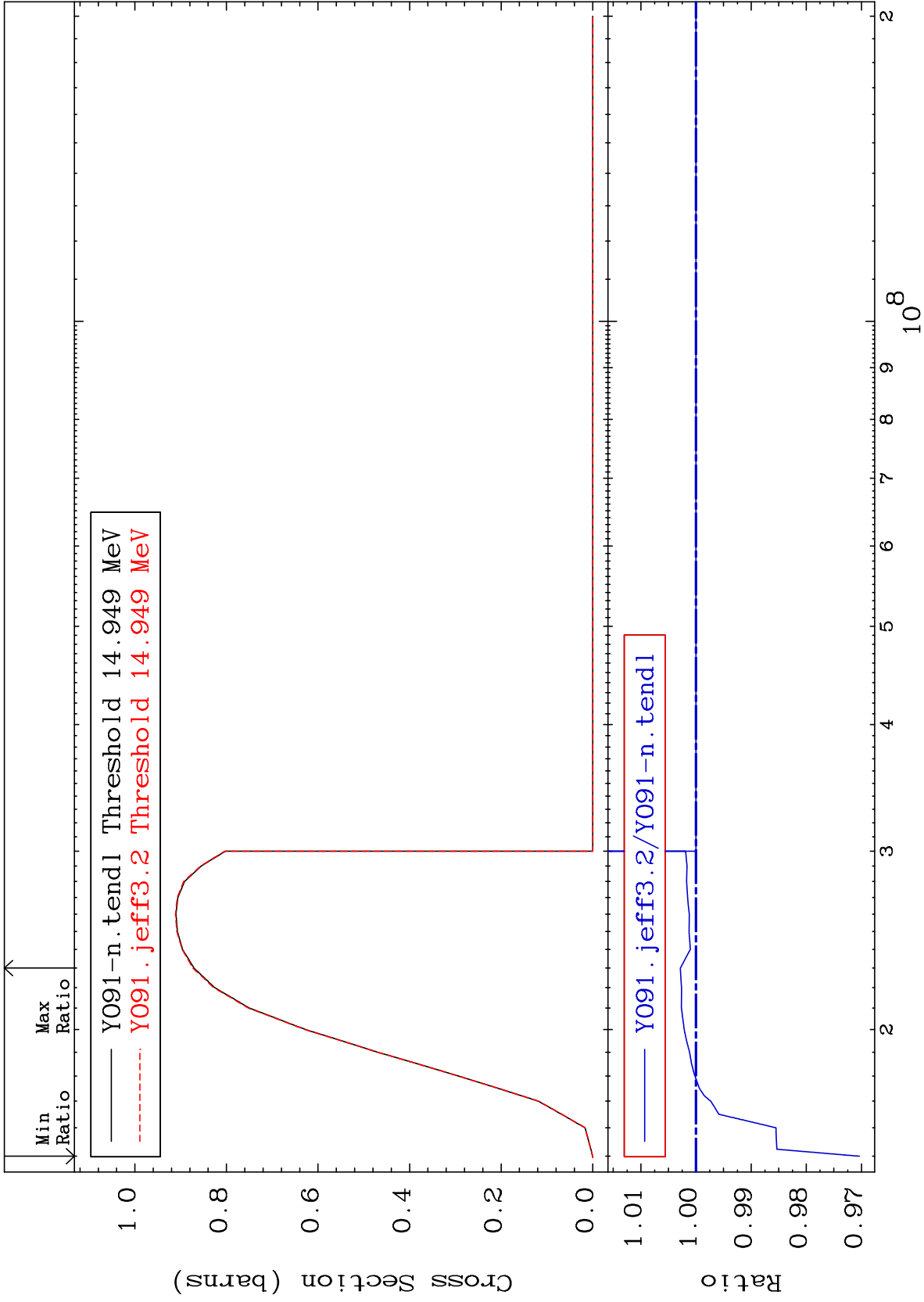
-5.153 To 1.185 %



5

Incident Energy (eV)

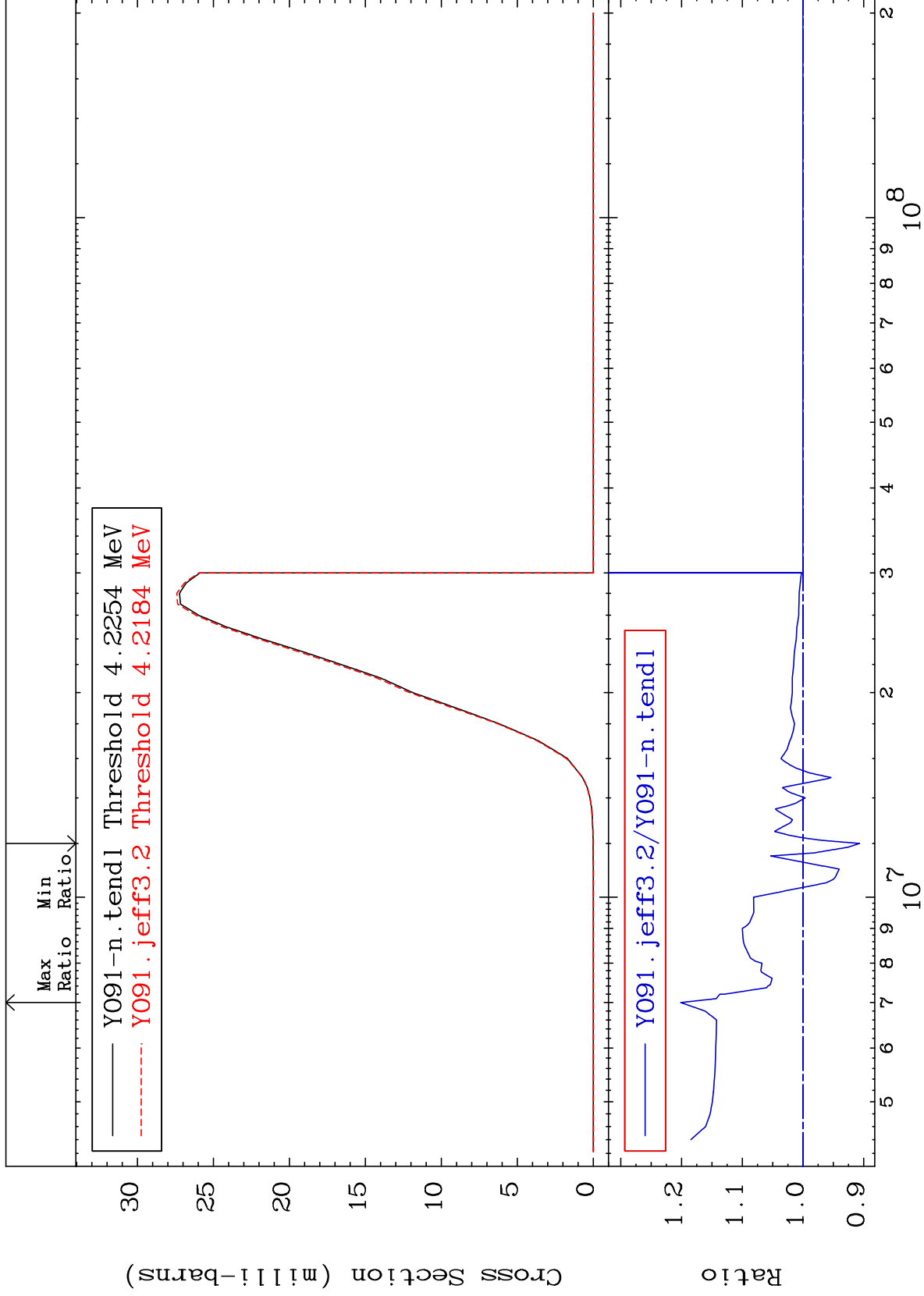
39-Y -91



MAT 3931

(n, n') α
Cross Section

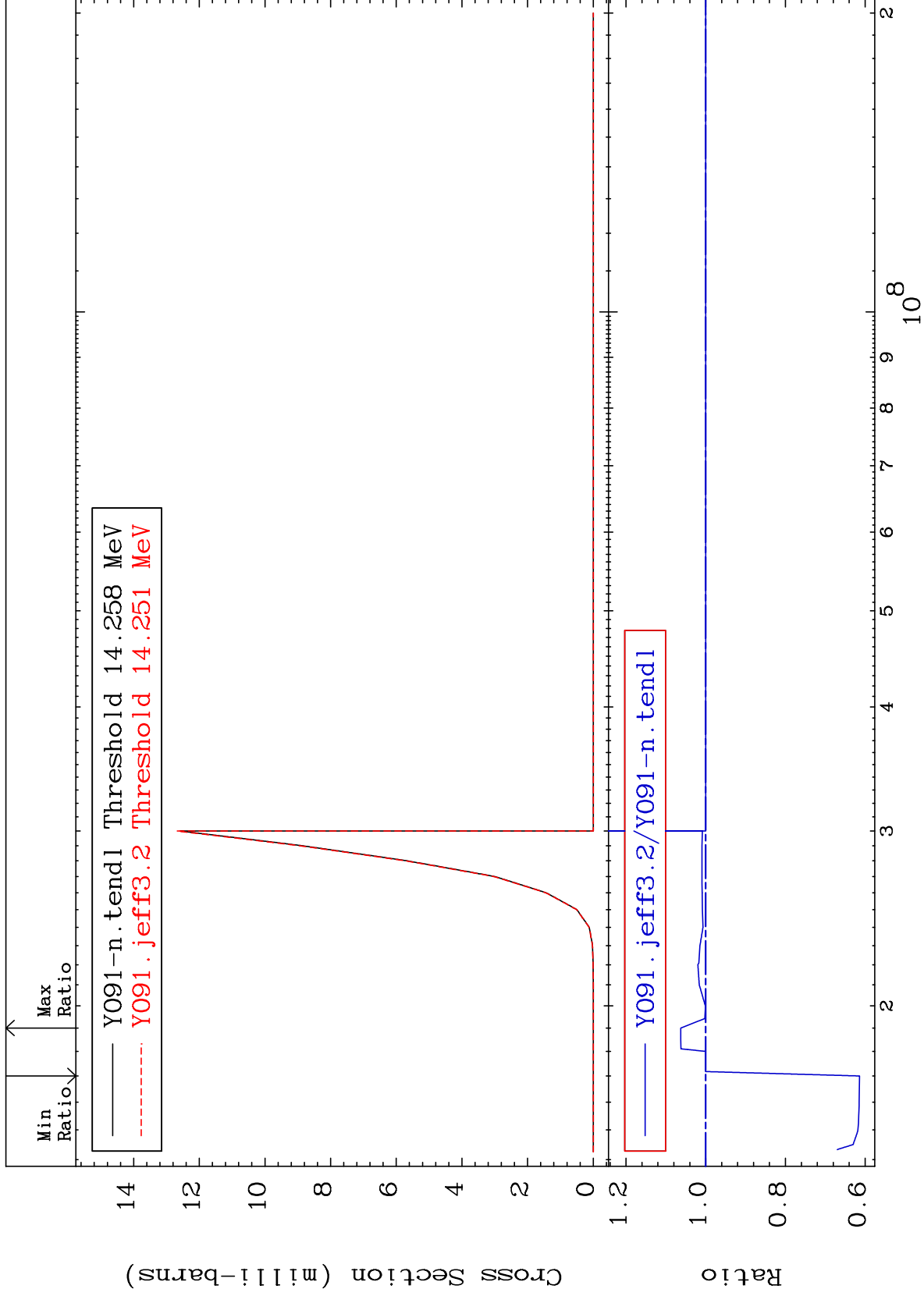
39-Y -91
-9.303 To 20.12 %



MAT 3931

(n,2n) α
Cross Section

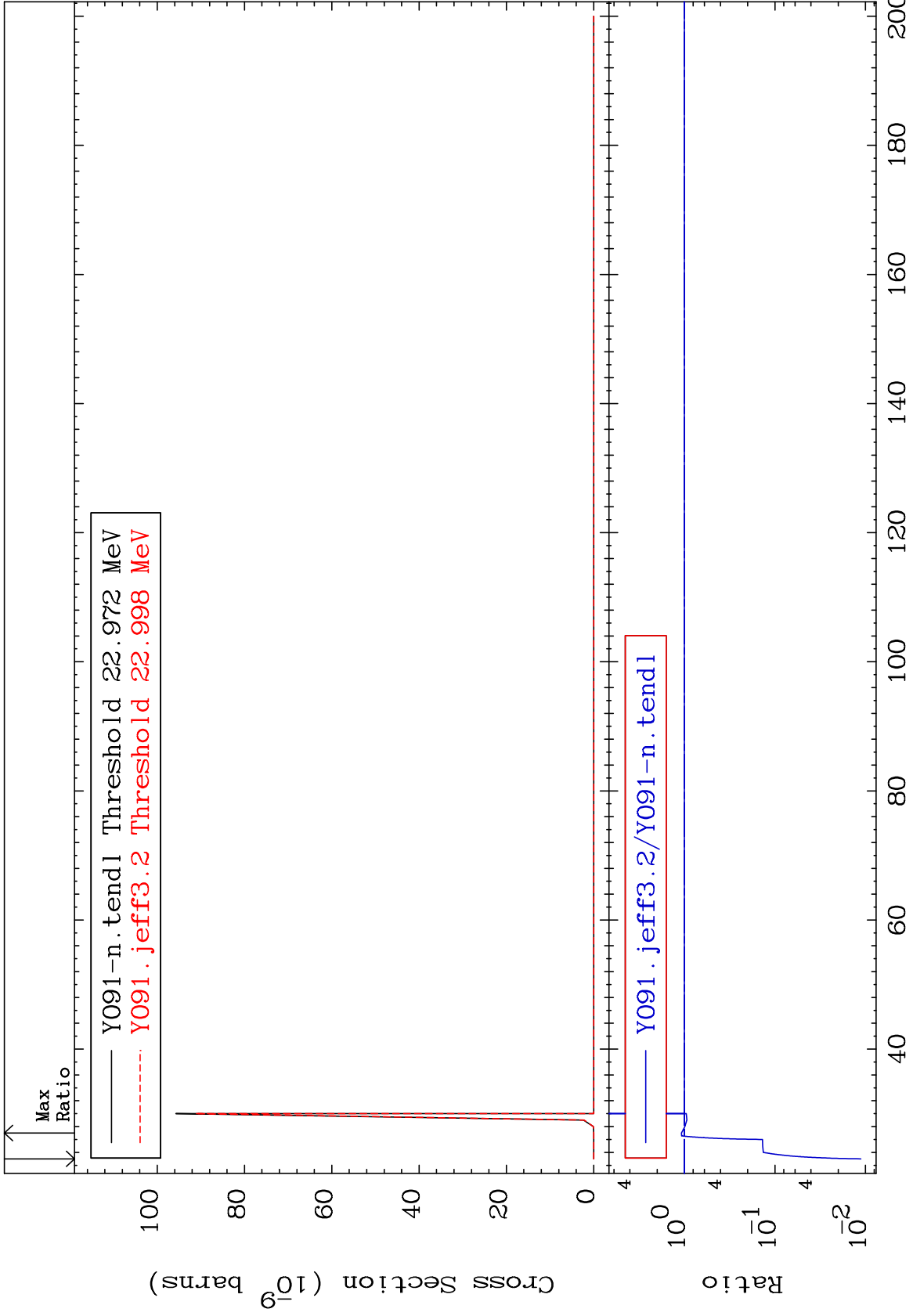
39-Y -91
-38.60 To 6.263 %



MAT 3931

(n,3n) α
Cross Section

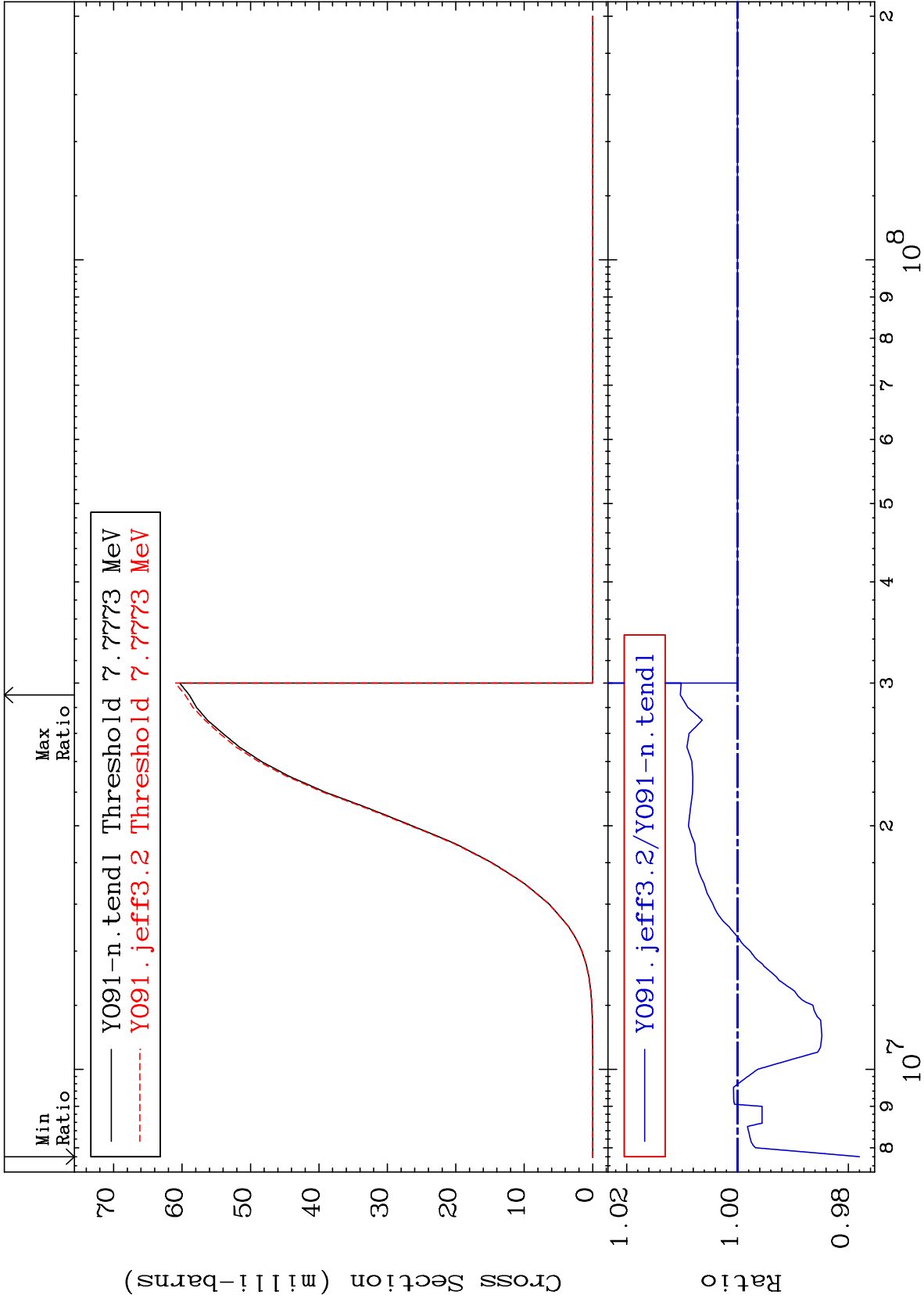
39-Y -91
-98.87 To 7.650 %



MAT 3931

(n,n') p
Cross Section

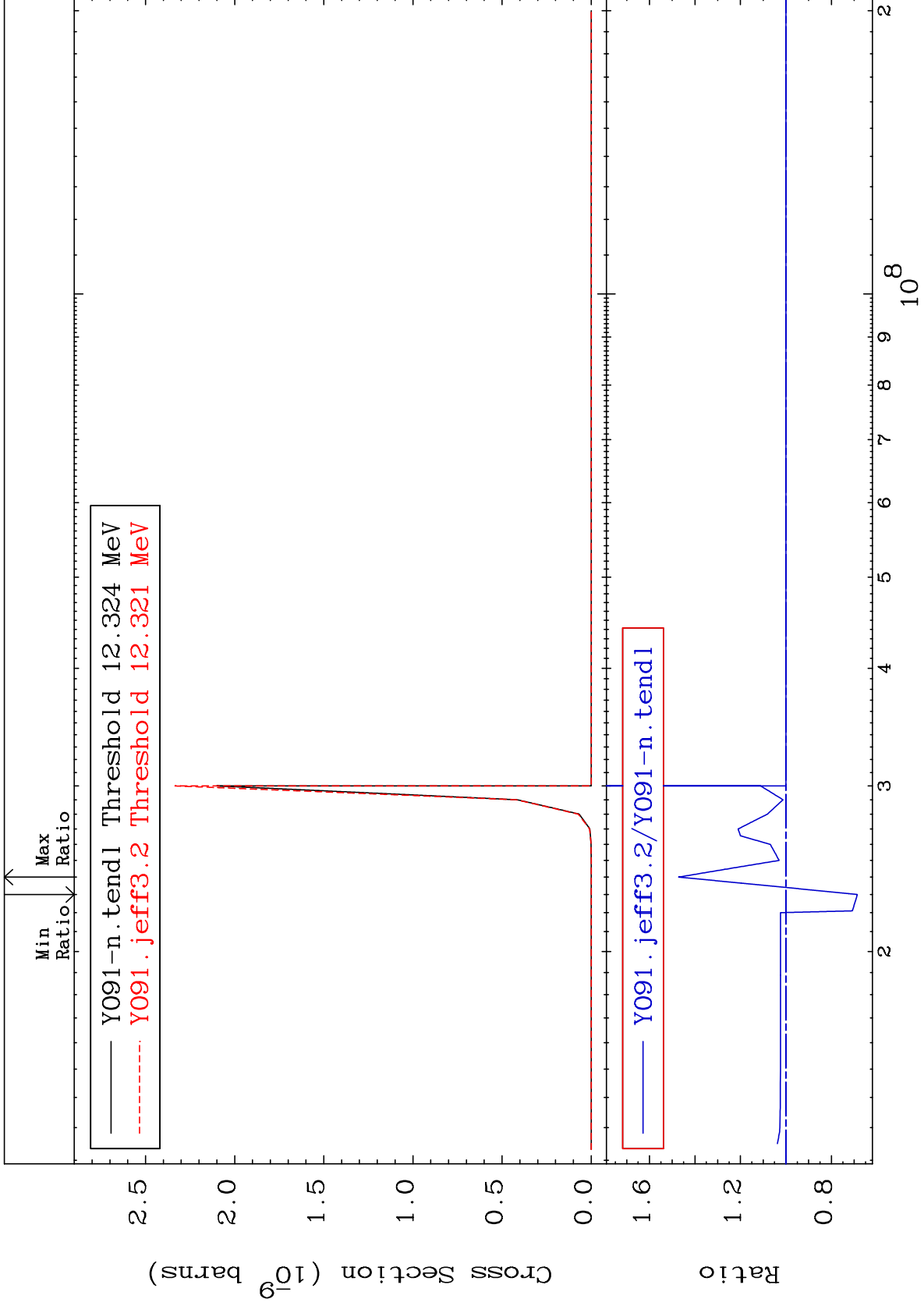
39-Y -91
-2.201 To 1.032 %



10

Incident Energy (eV)

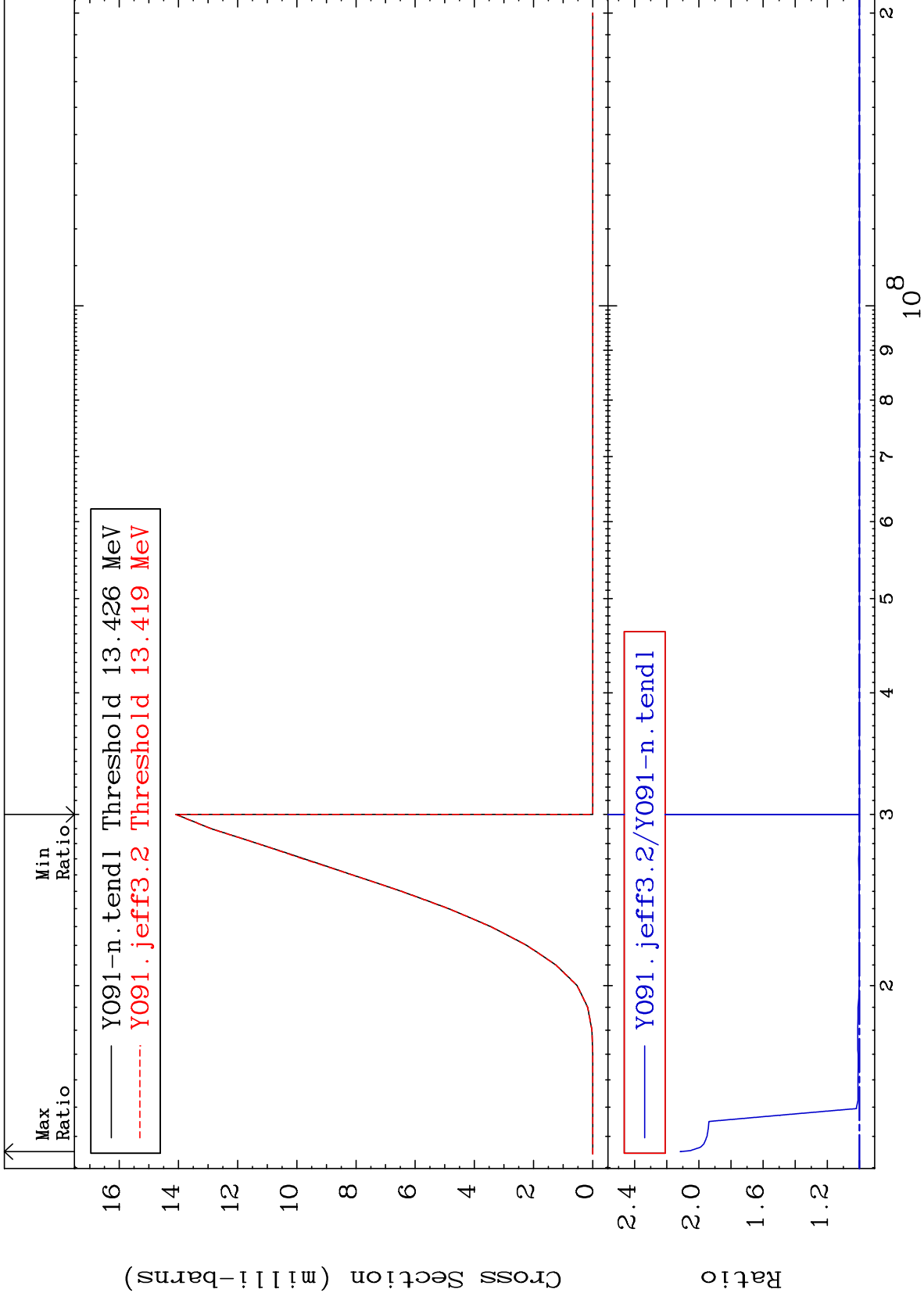
39-Y -91

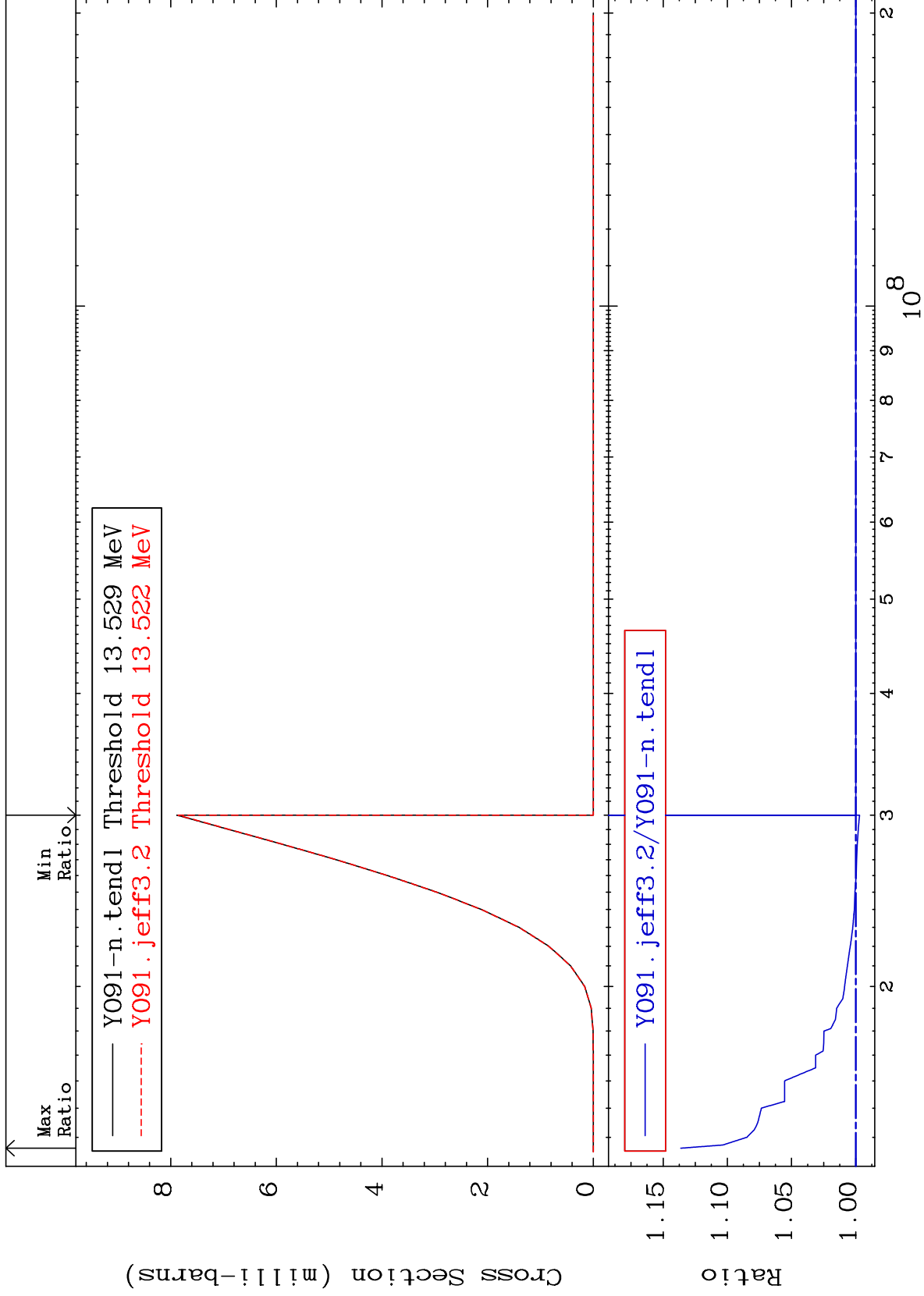


MAT 3931

(n,n') d
Cross Section

39-Y -91
0.000 To 111.5 %

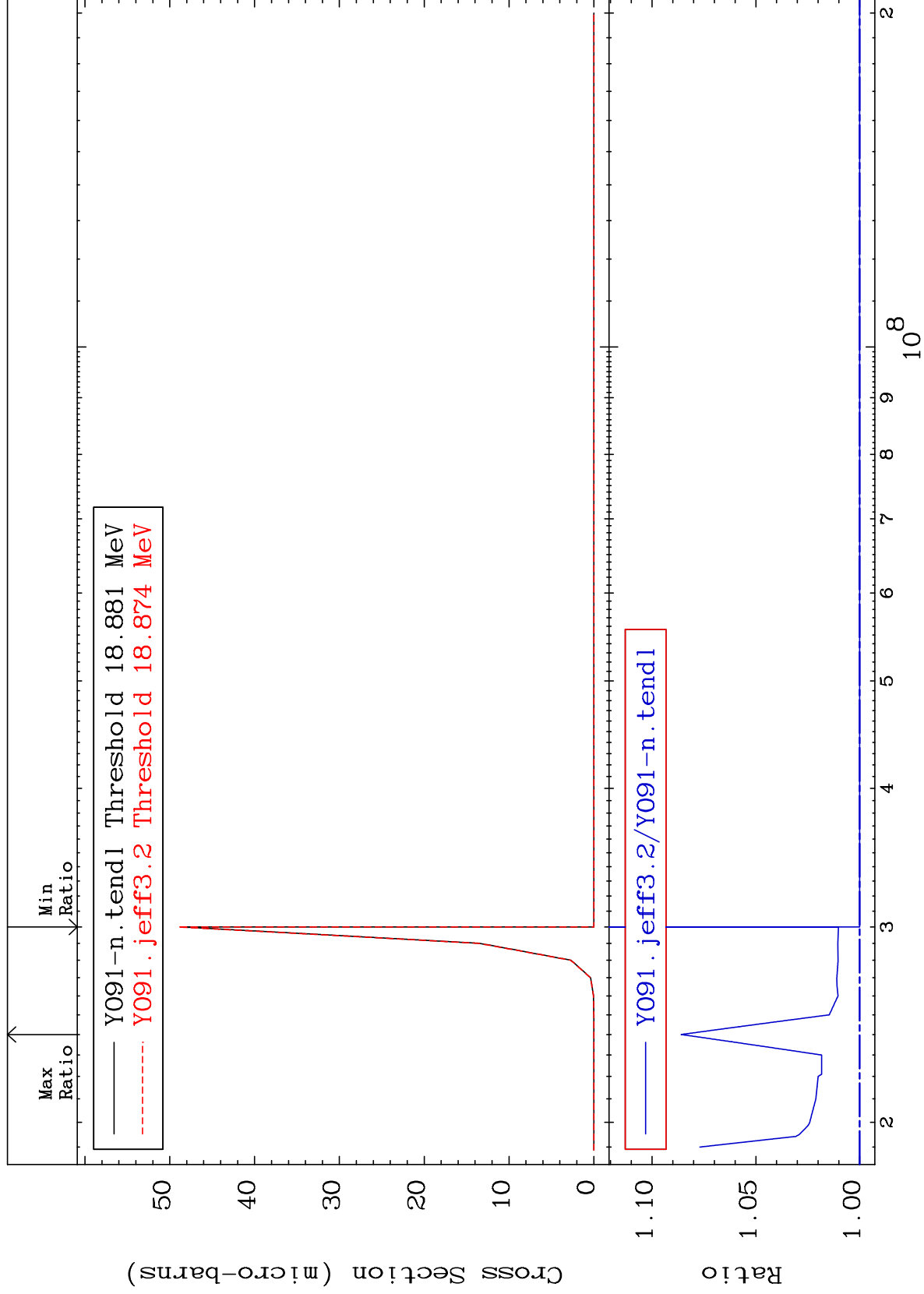




MAT 3931

(n, n') He-3
Cross Section

39-Y -91
0.000 To 8.597 %



14

Incident Energy (eV)

39-Y -91

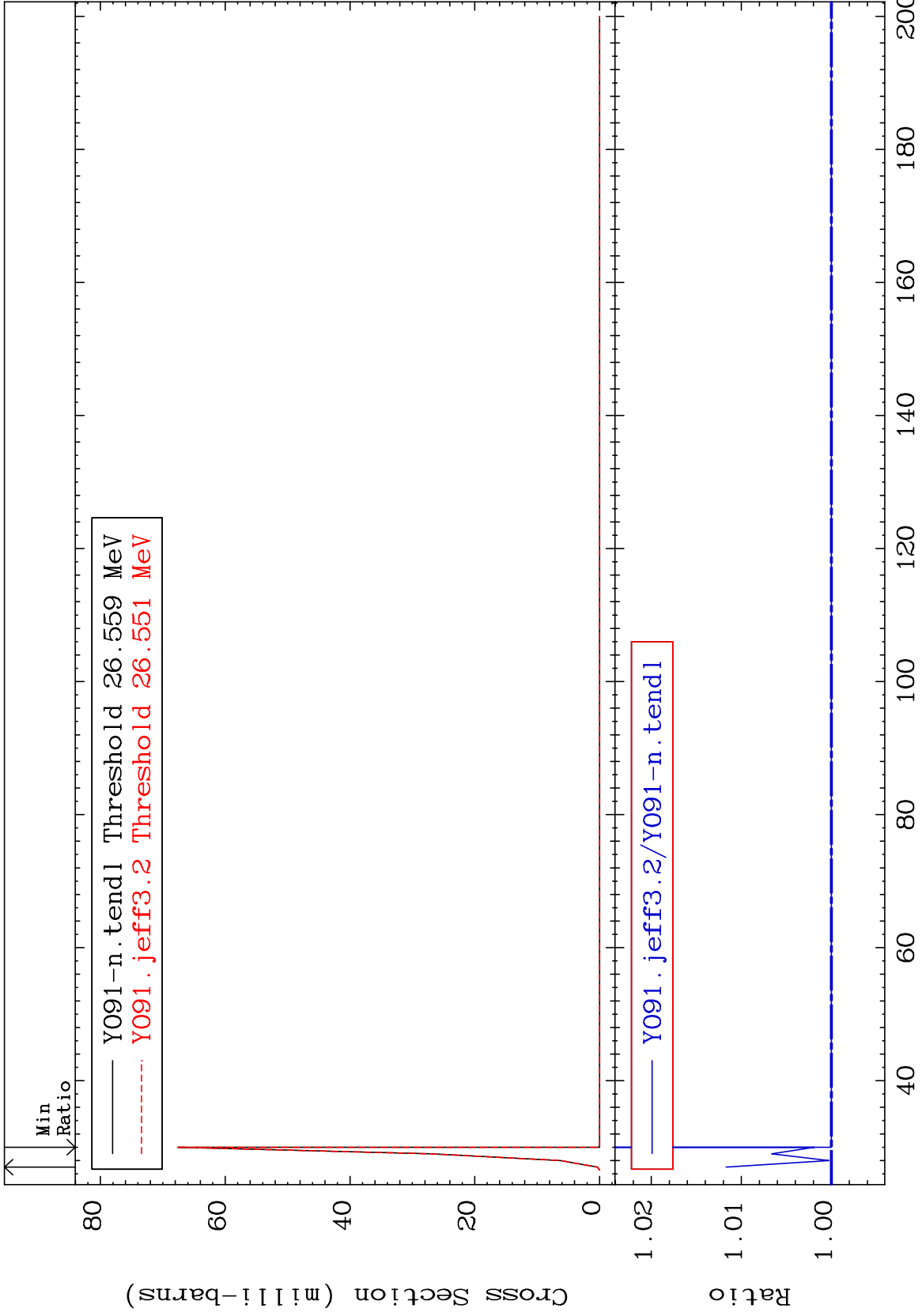
MAT 3931

(n,4n)

39-Y -91

Cross Section

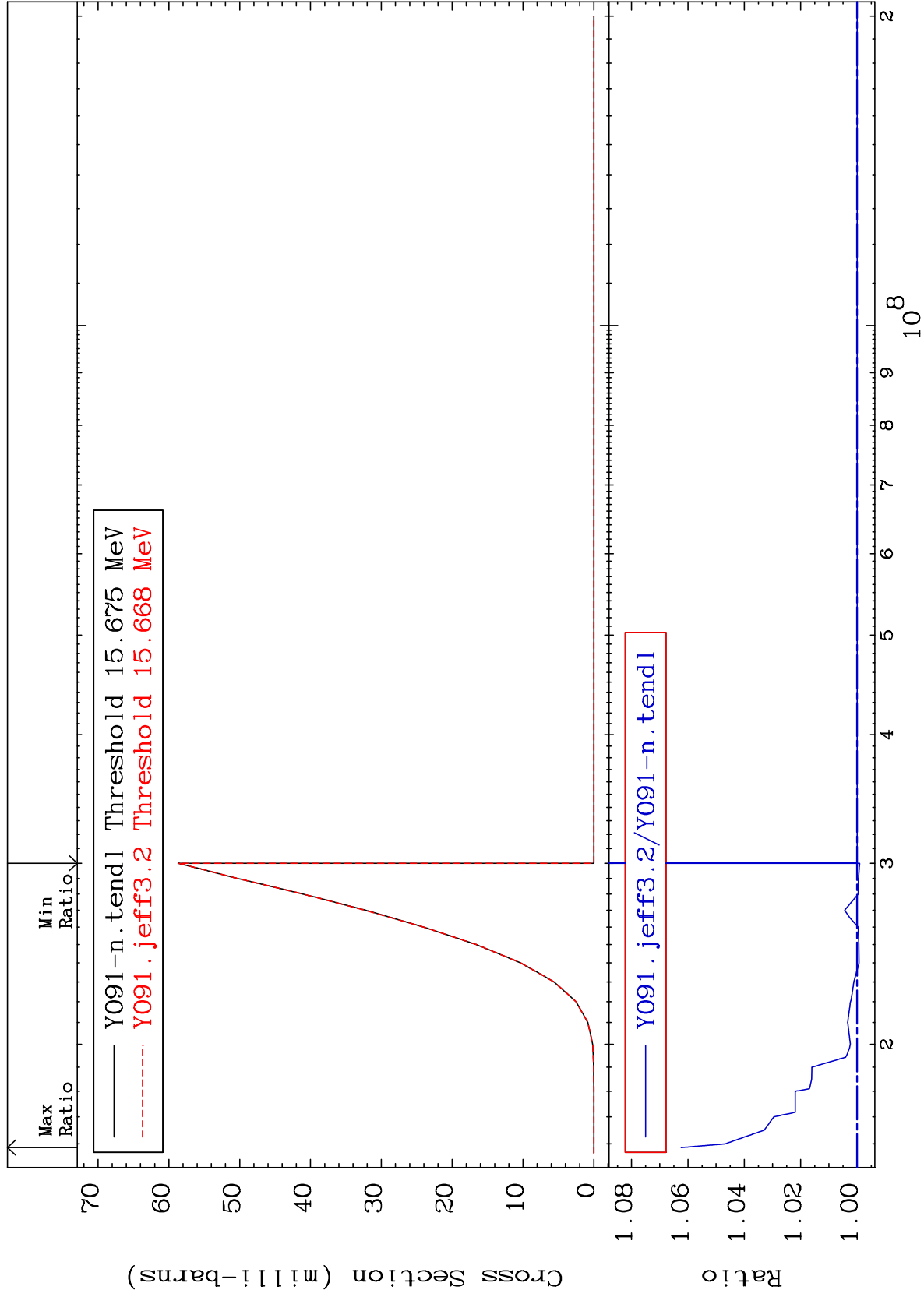
0.000 To 1.169 %



MAT 3931

(n,2n) p
Cross Section

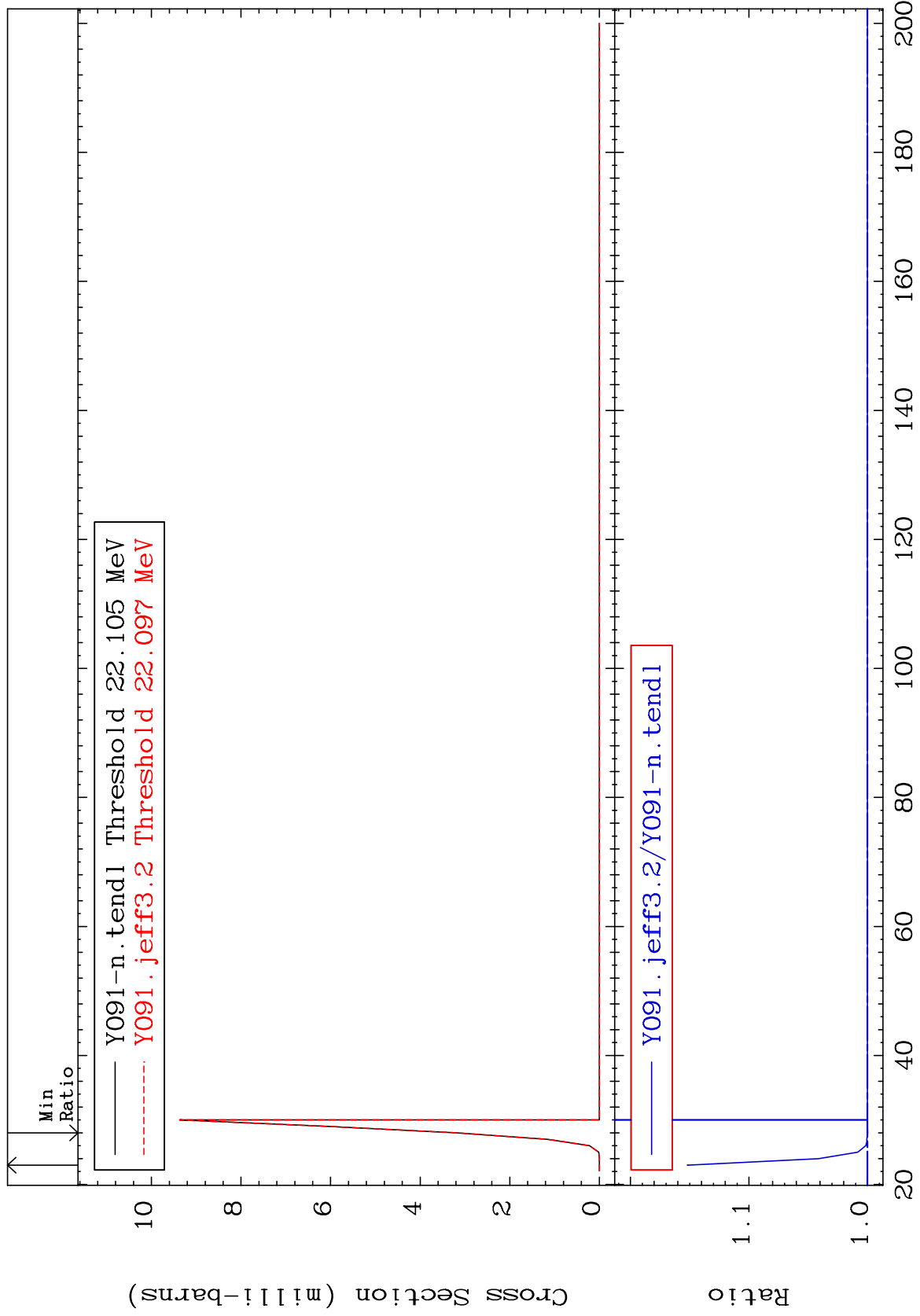
39-Y -91
-0.090 To 6.240 %



MAT 3931

(n,3n) p
Cross Section

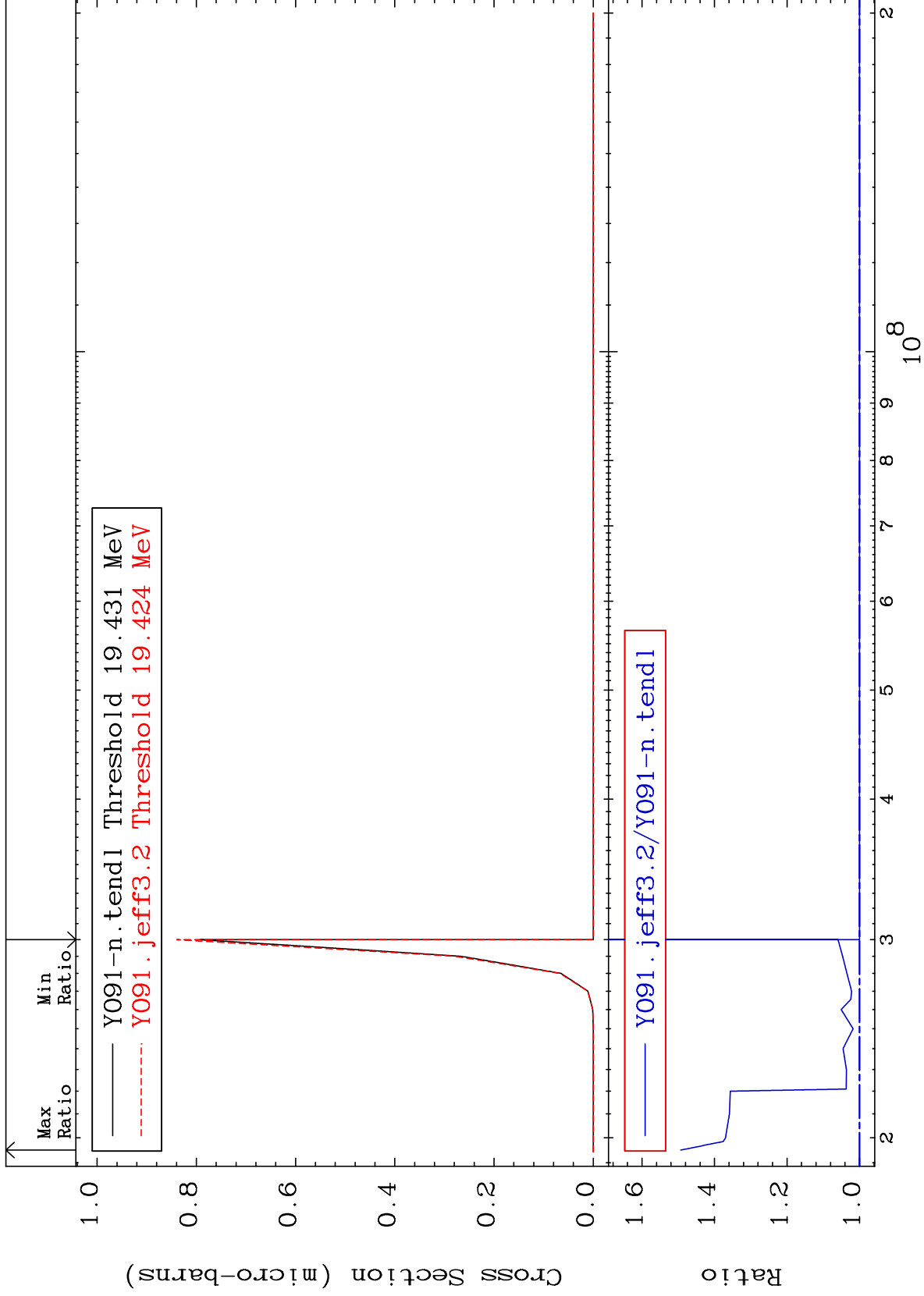
39-Y -91
-0.015 To 15.18 %



MAT 3931

(n,2n) p
Cross Section

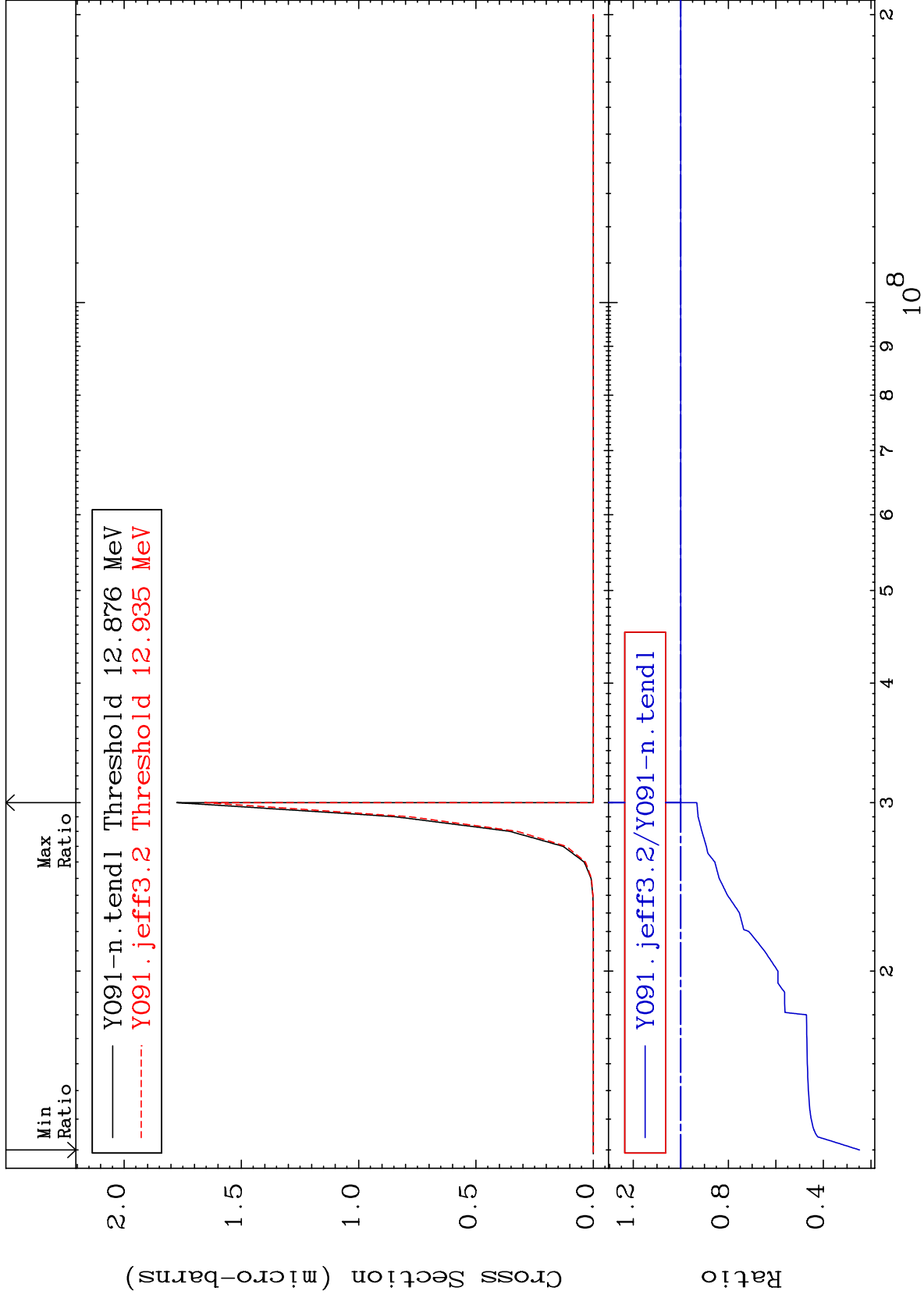
39-Y -91
0.000 To 49.30 %



18

Incident Energy (eV)

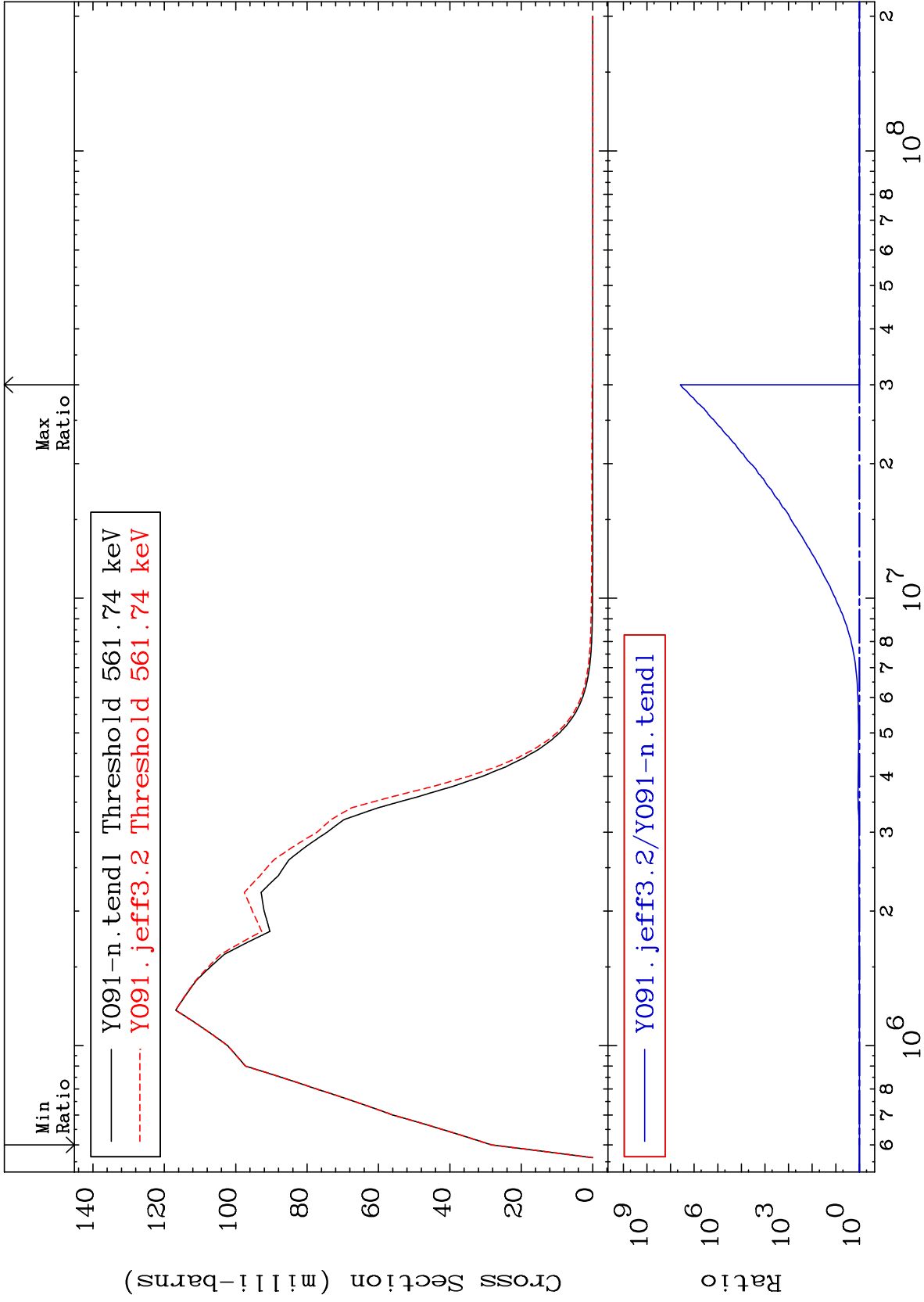
39-Y -91



MAT 3931

555.6 keV (n,n') Level
Cross Section

39-Y -91
-0.155 To 9999. %



20

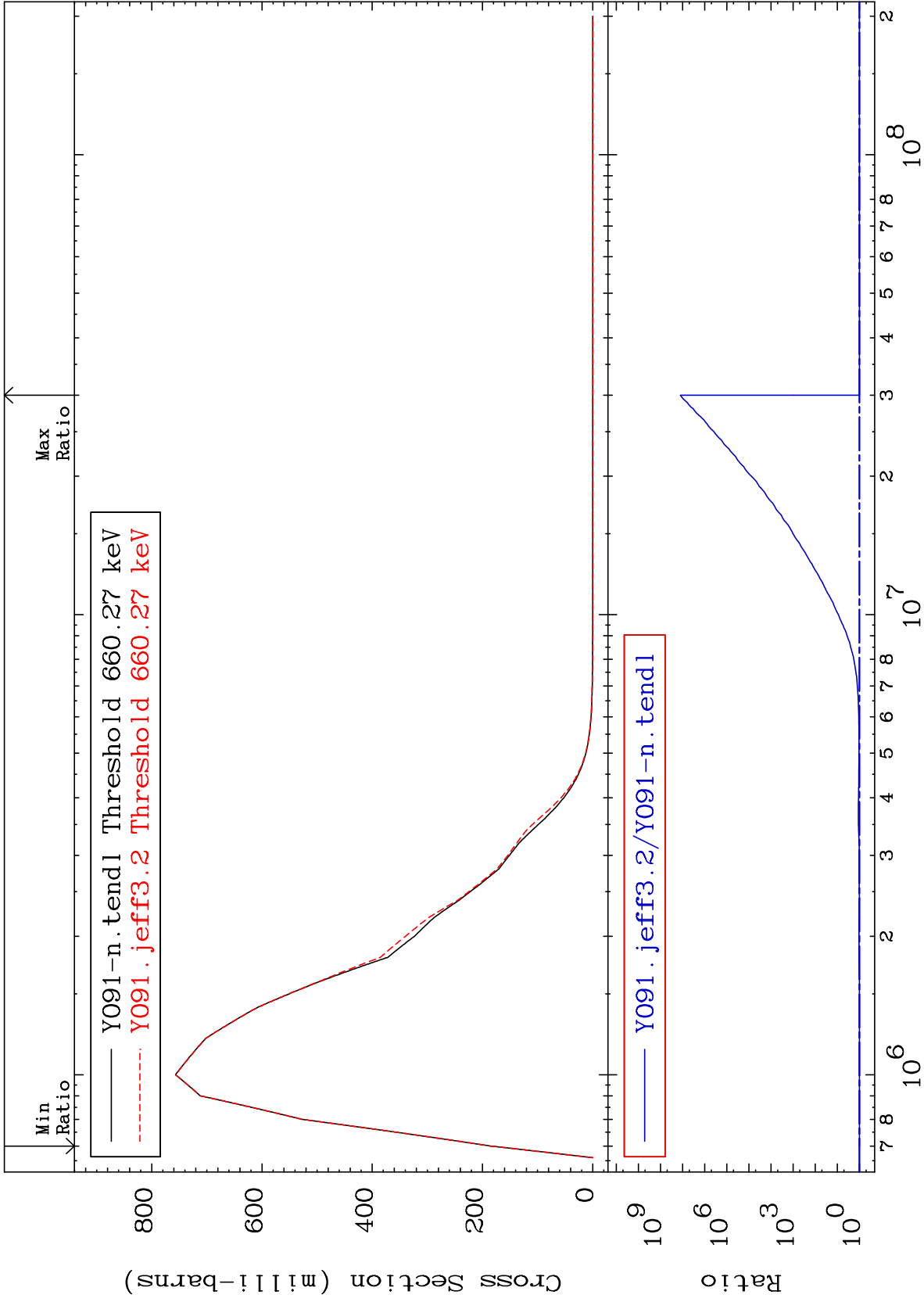
Incident Energy (eV)

39-Y -91

MAT 3931

653.0 keV (n,n') Level
Cross Section

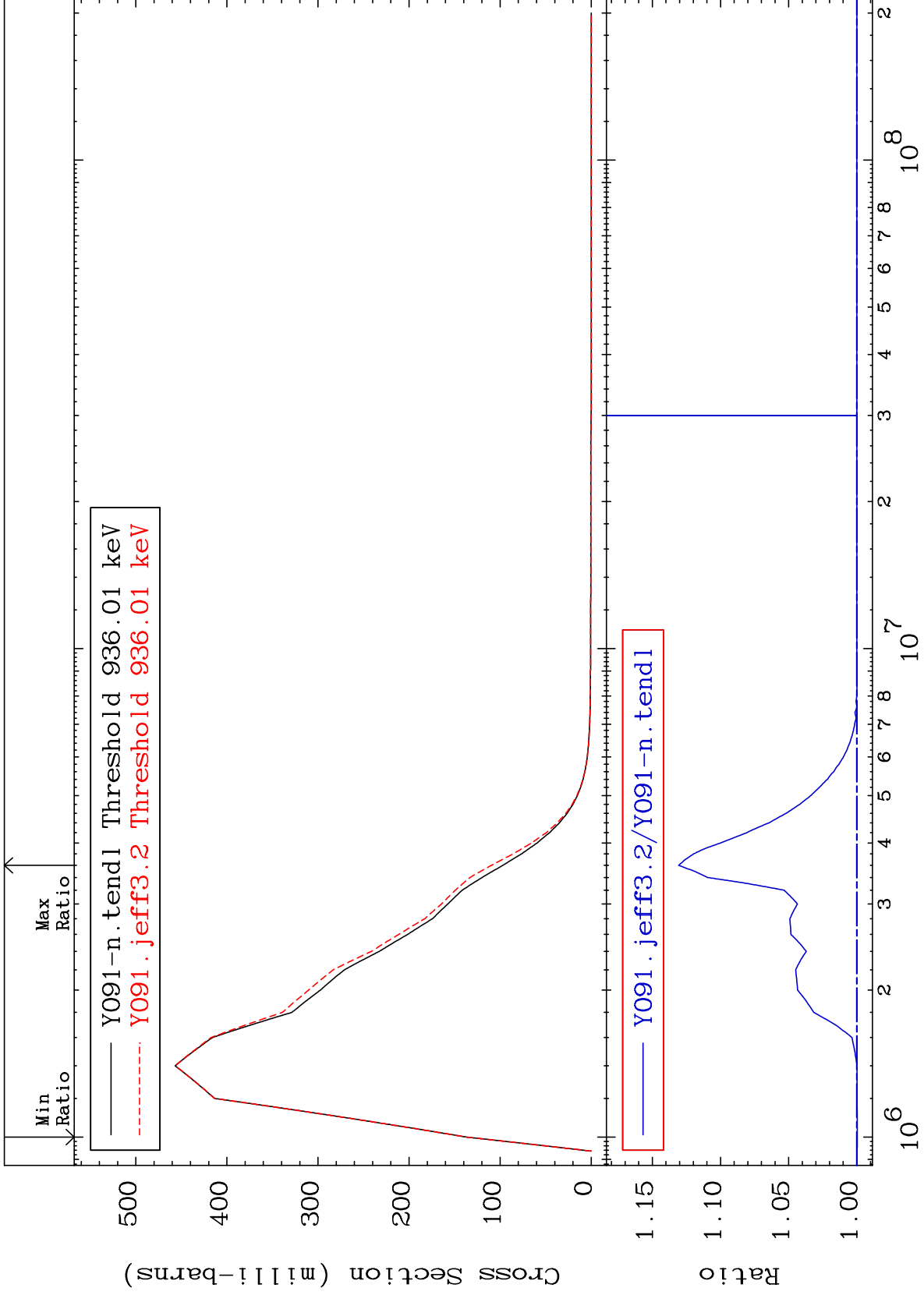
39-Y -91
-0.032 To 9999. %



MAT 3931

925.7 keV (n,n') Level
Cross Section

39-Y -91
-0.031 To 13.07 %



22

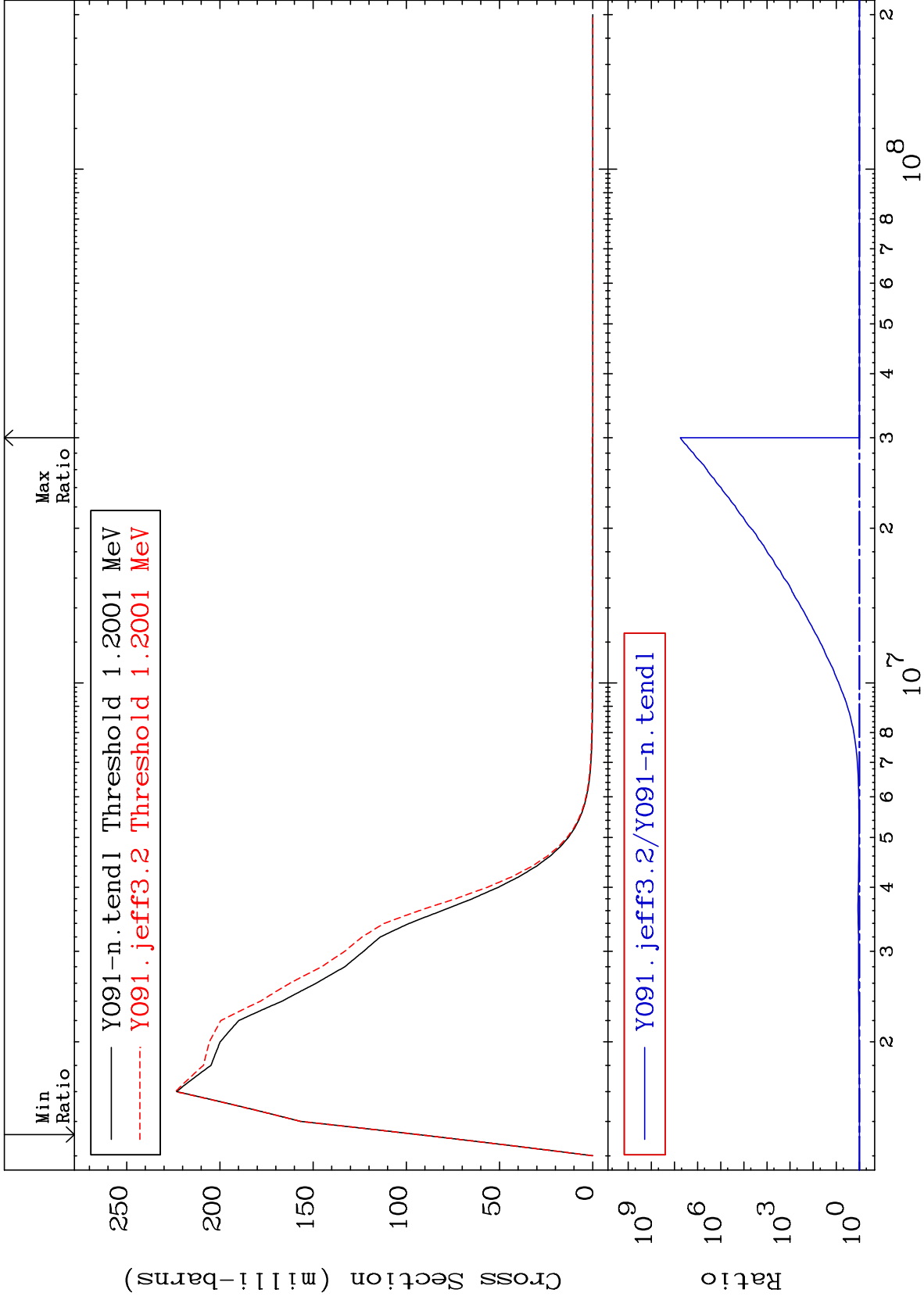
Incident Energy (eV)

39-Y -91

MAT 3931

1.187 MeV (n,n') Level
Cross Section

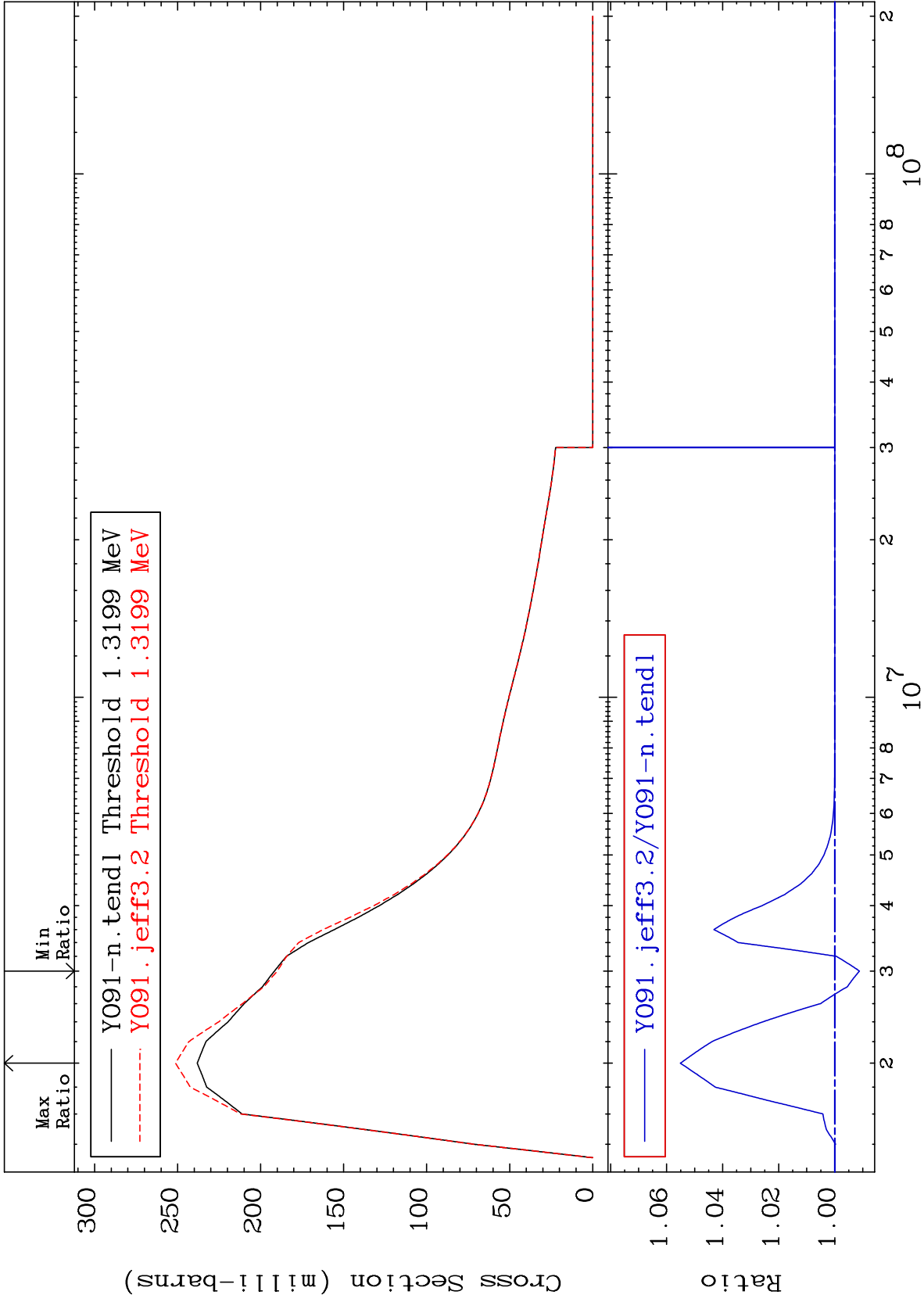
39-Y -91
-0.013 To 9999. %



MAT 3931

1.305 MeV (n,n') Level
Cross Section

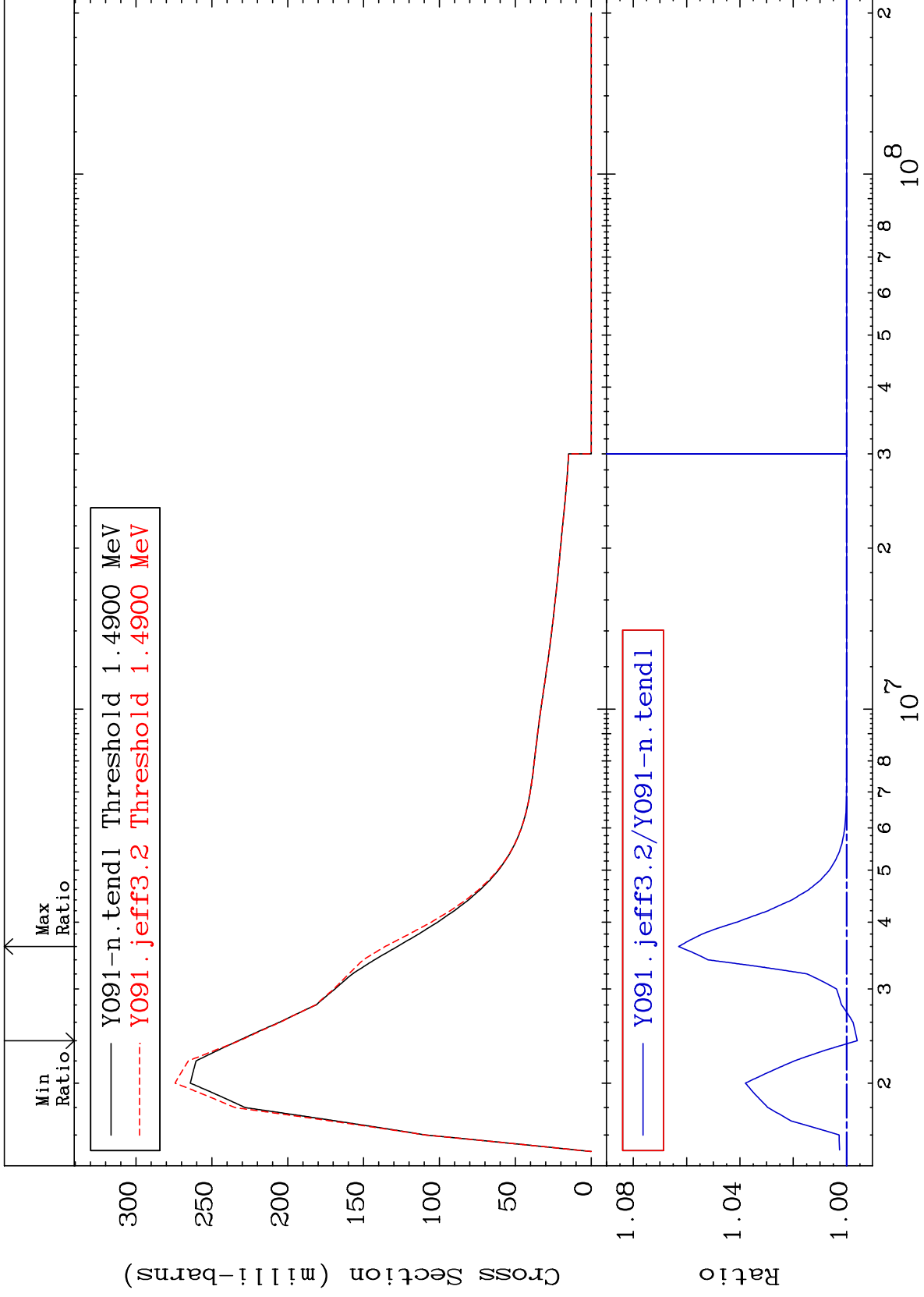
39-Y -91
-0.879 To 5.511 %



MAT 3931

1.474 MeV (n,n') Level
Cross Section

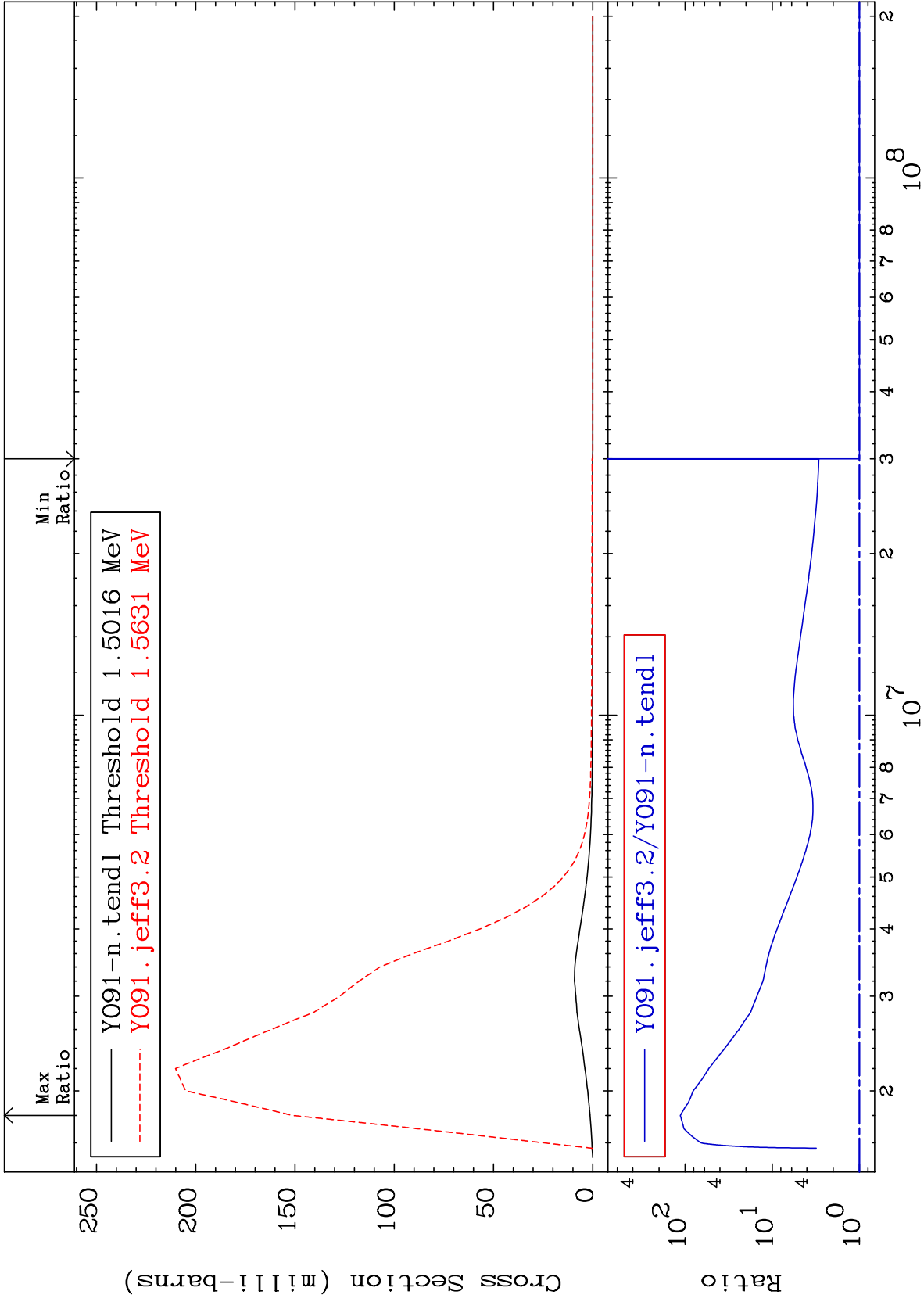
39-Y -91
-0.398 To 6.299 %

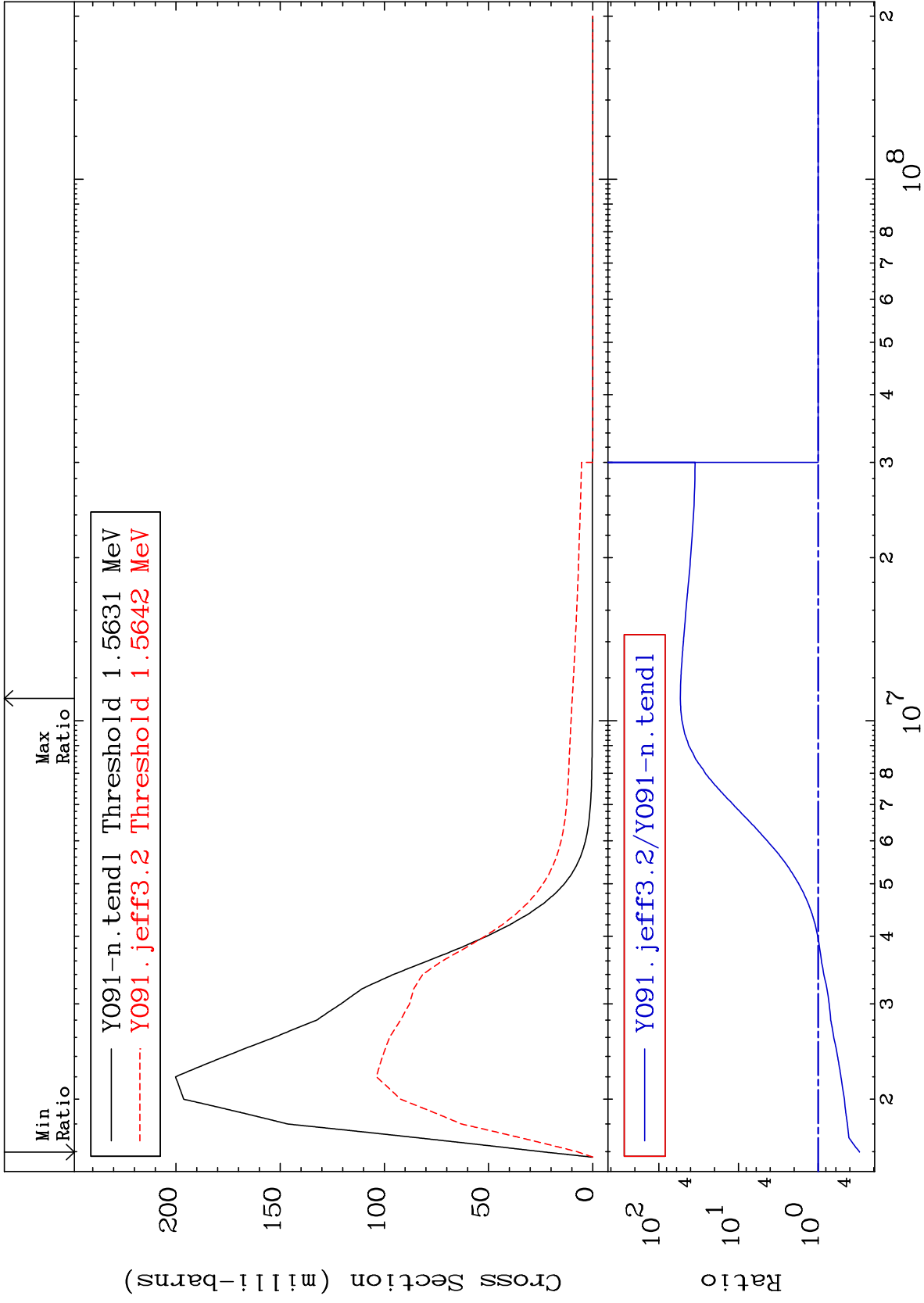


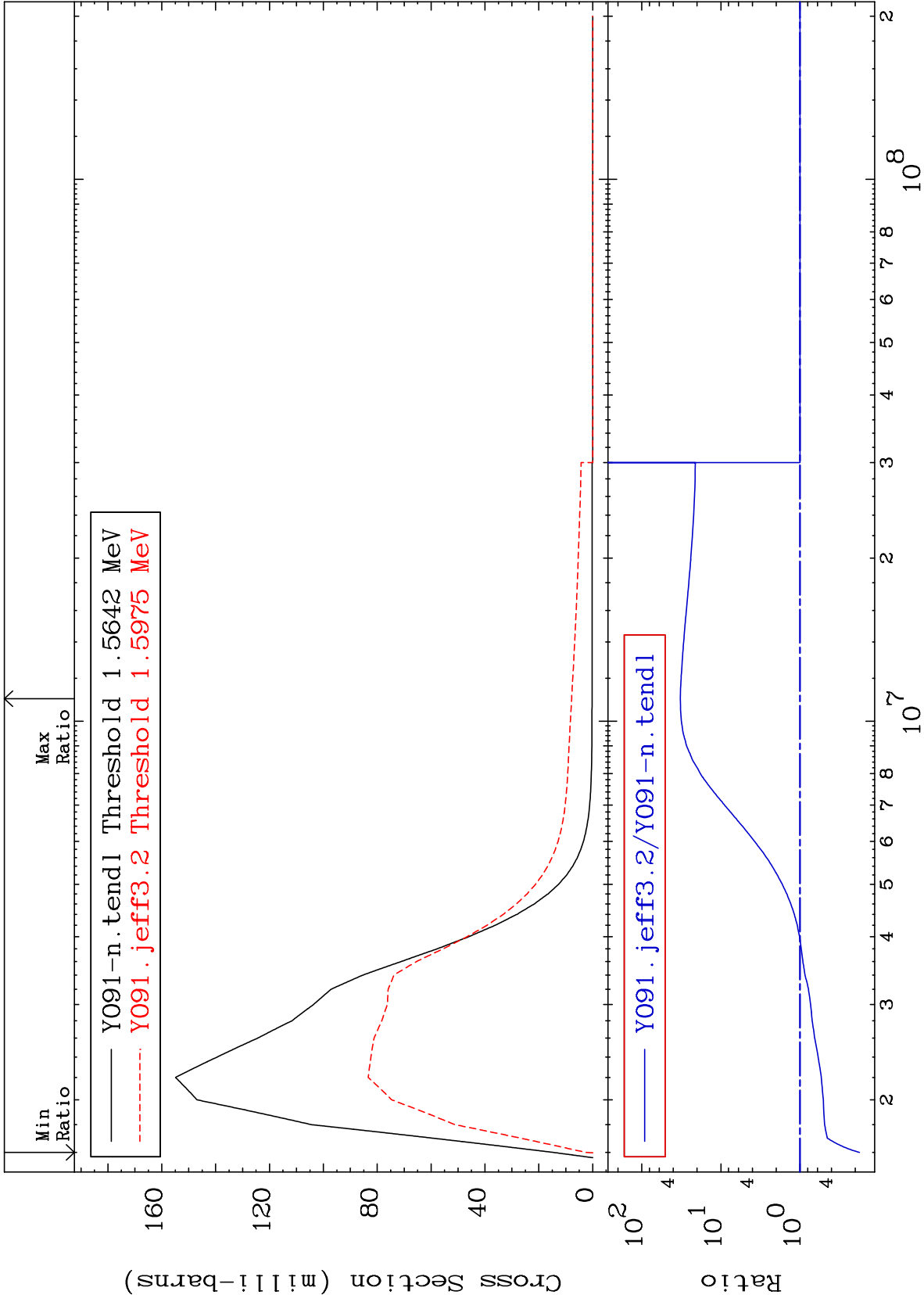
MAT 3931

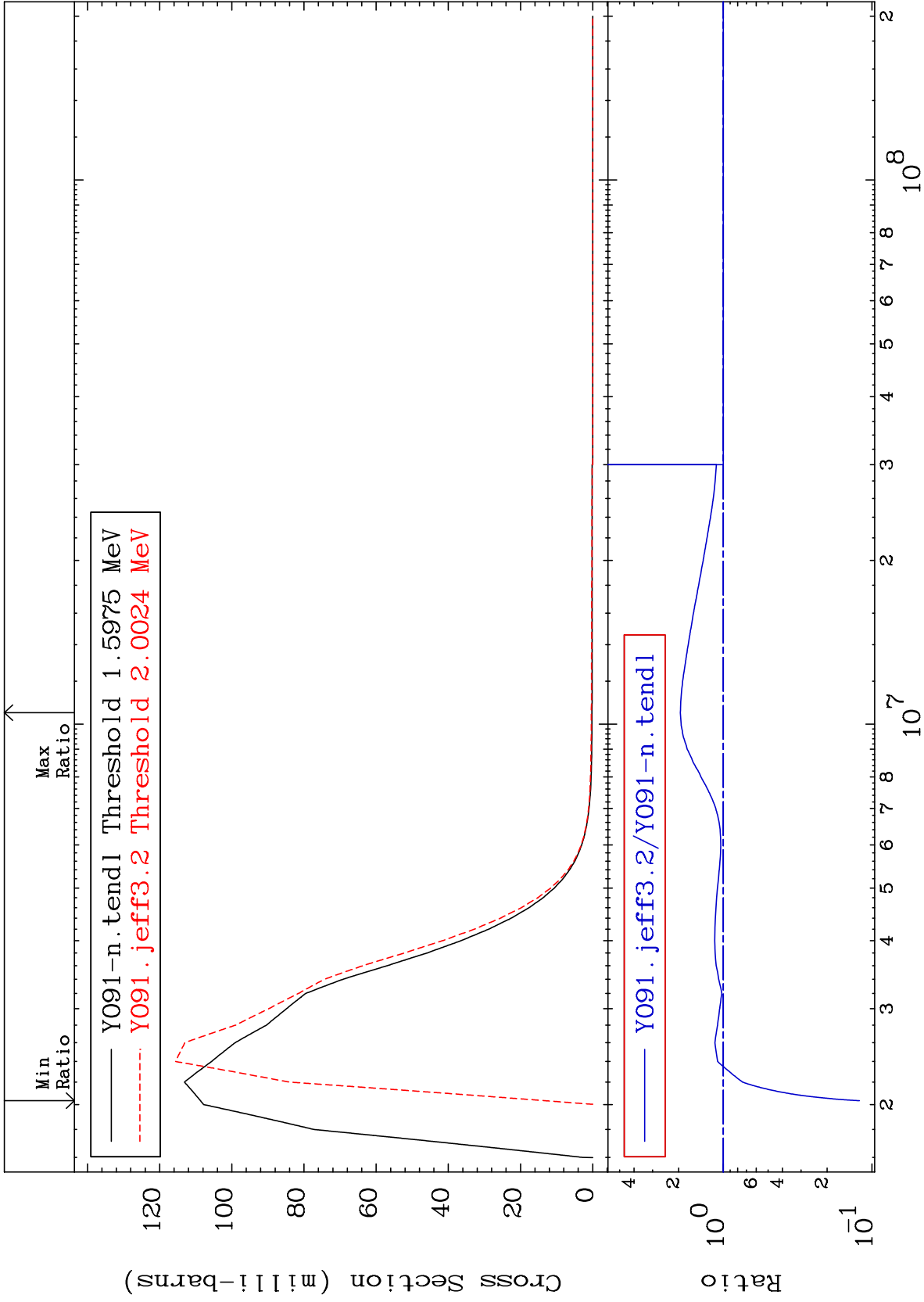
1.485 MeV (n,n') Level
Cross Section

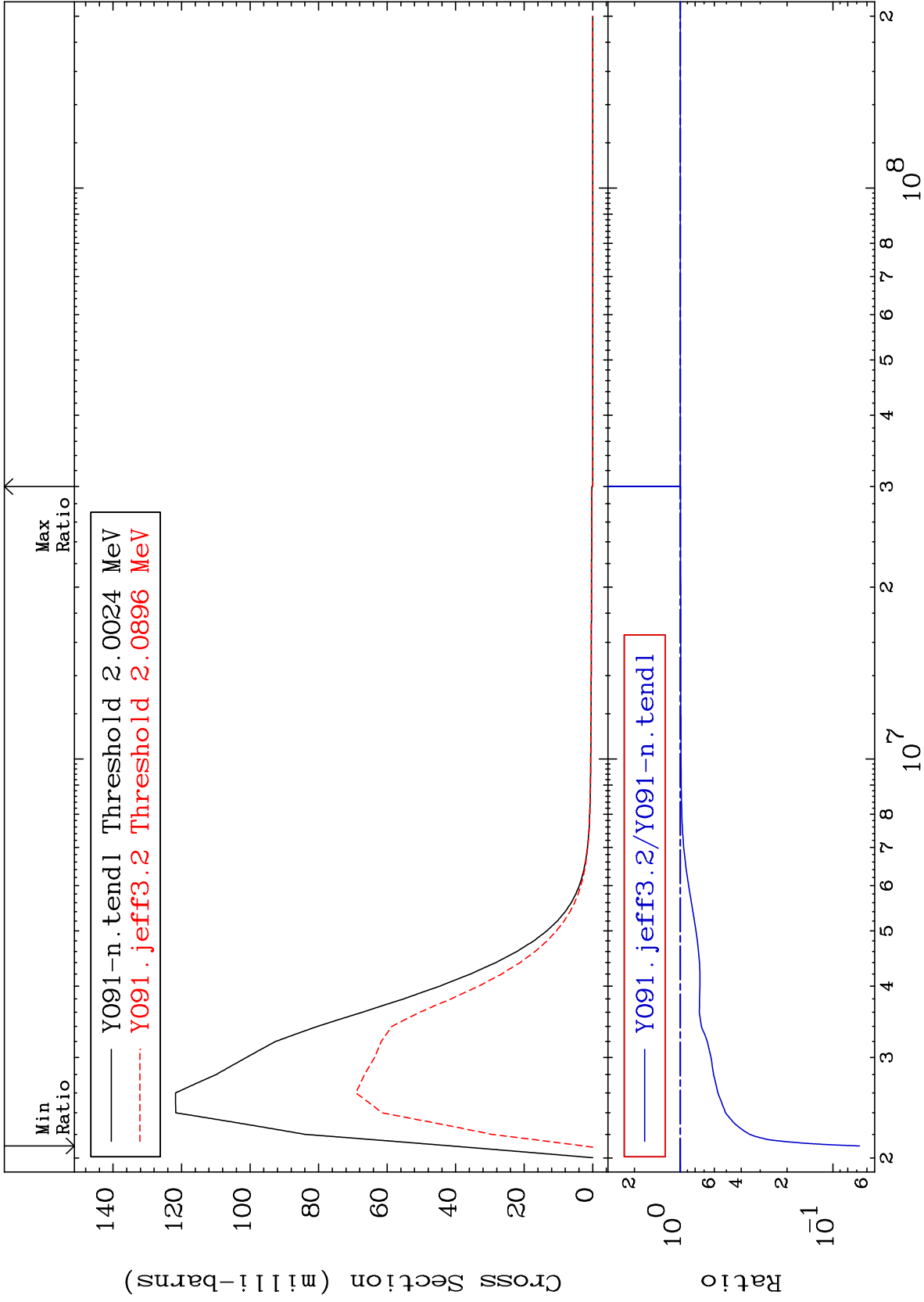
0.000 To 9999. %
39-Y -91

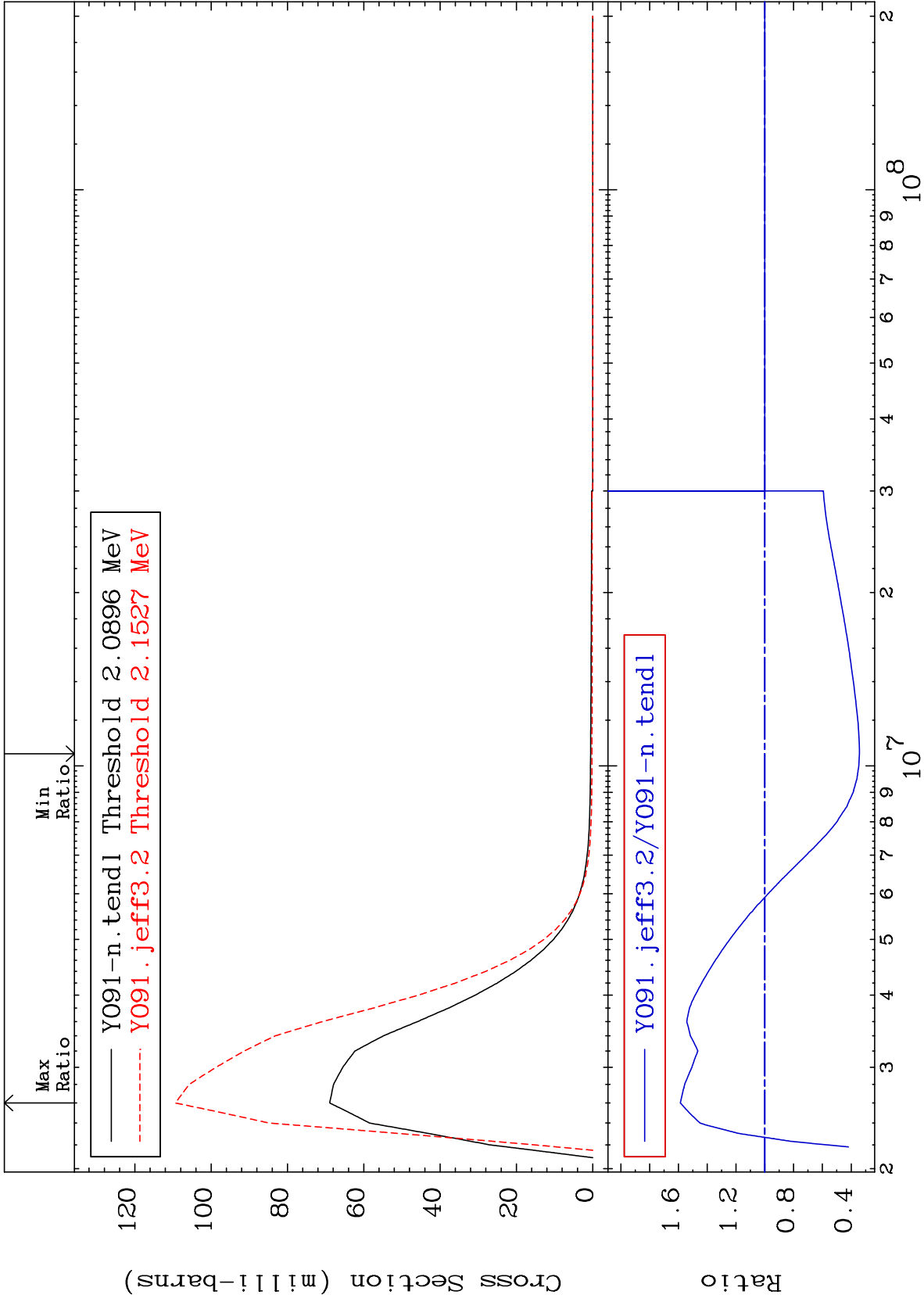








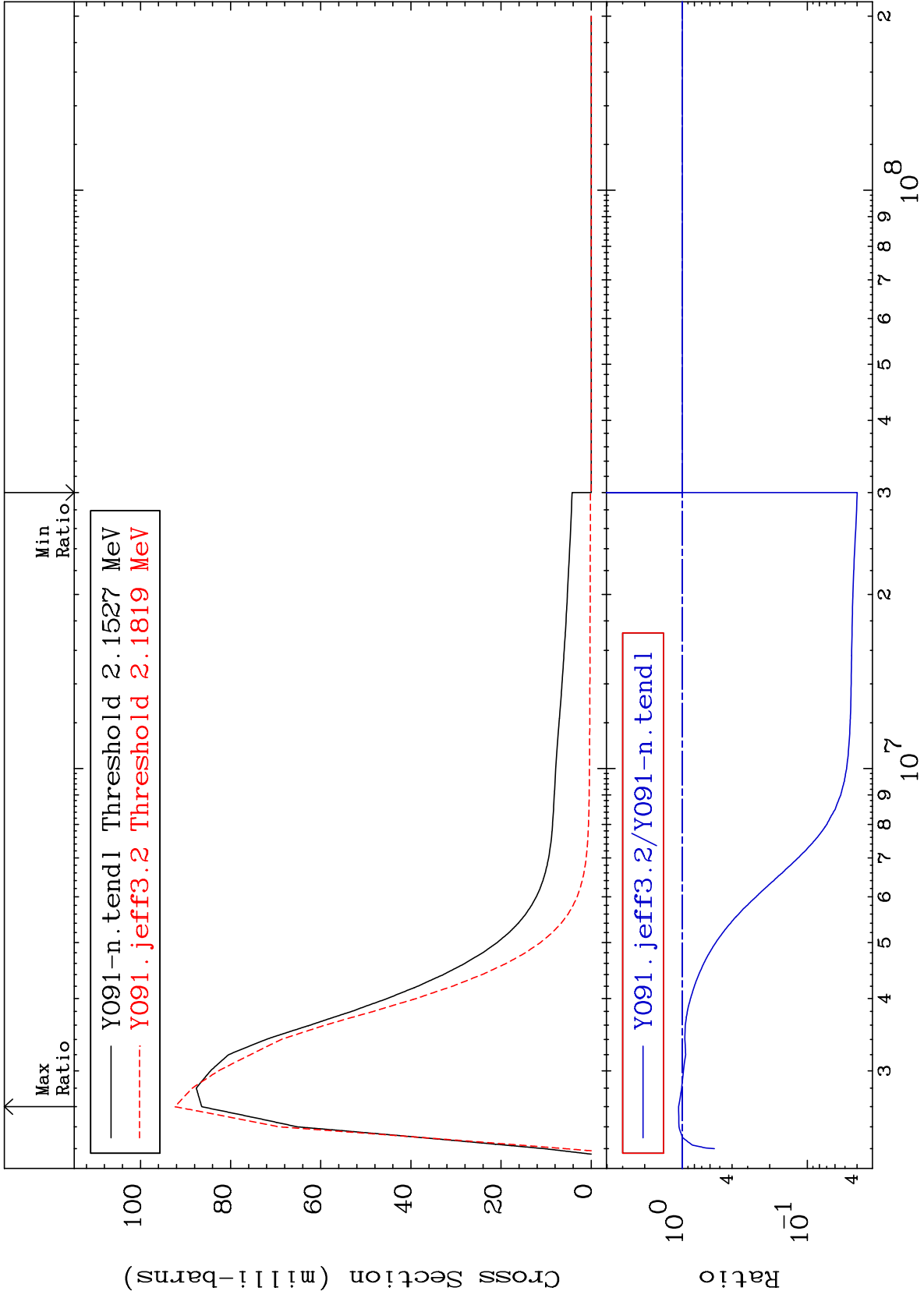


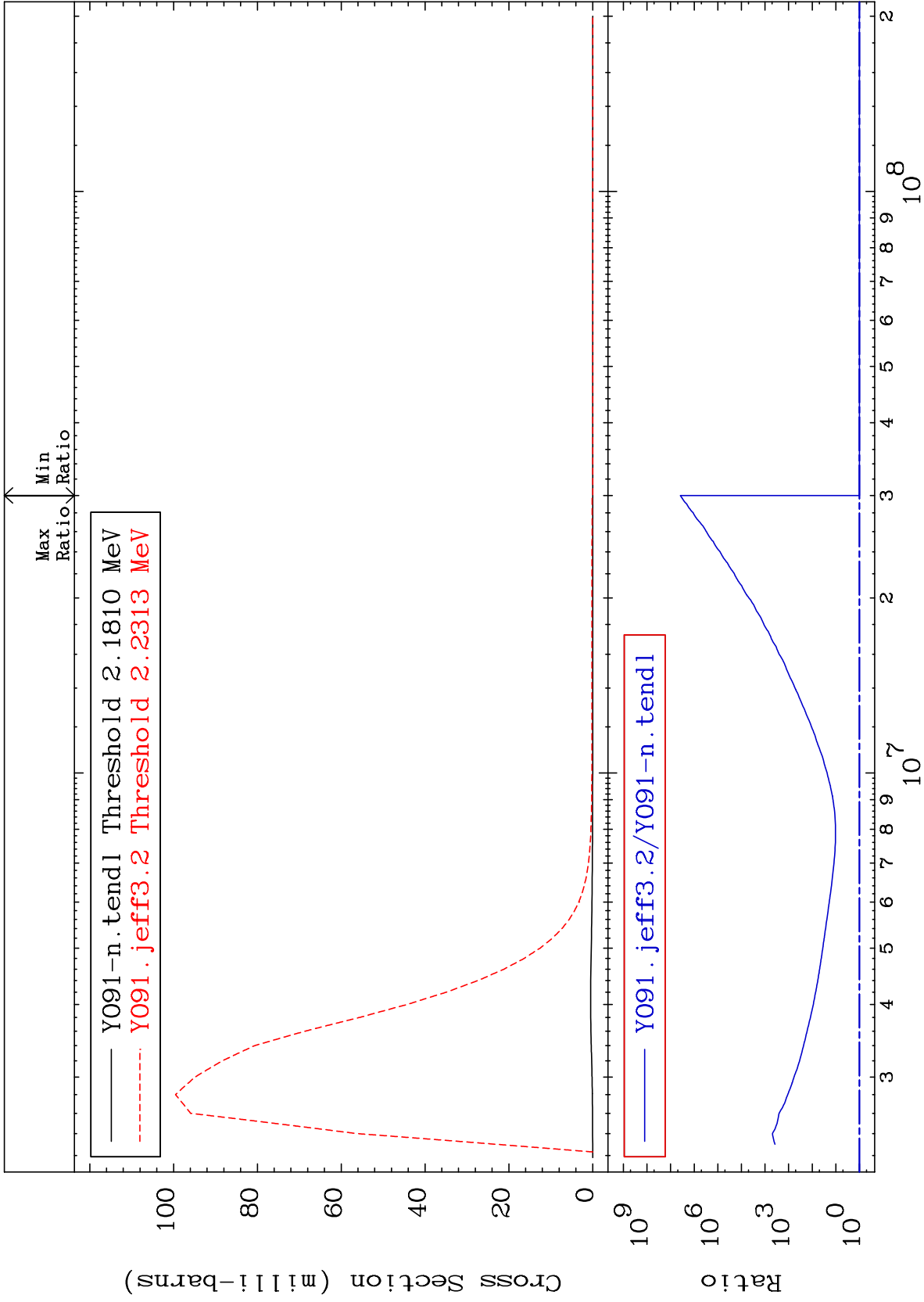


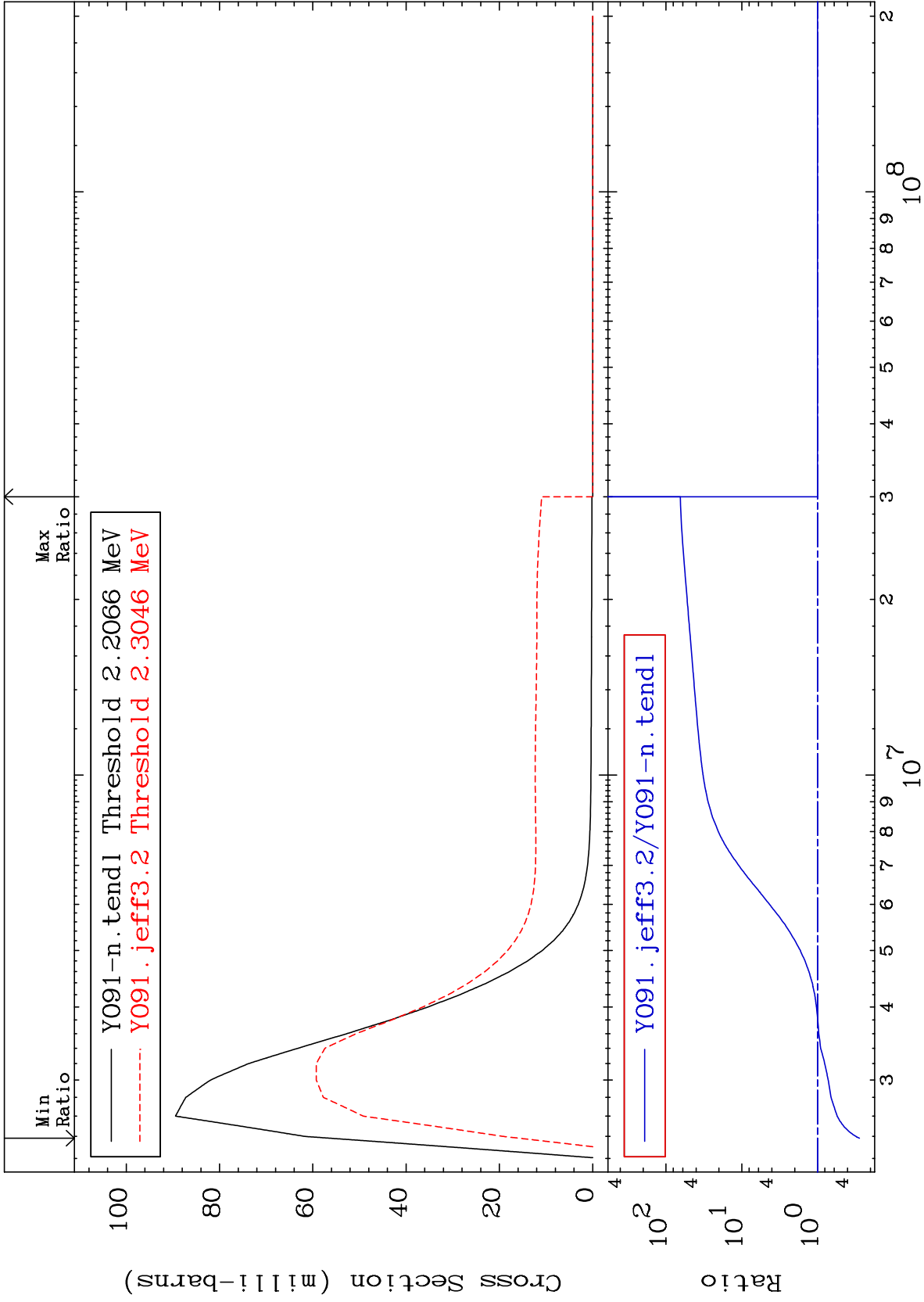
MAT 3931

2.129 MeV (n,n') Level
Cross Section

39-Y -91
-96.02 To 6.852 %



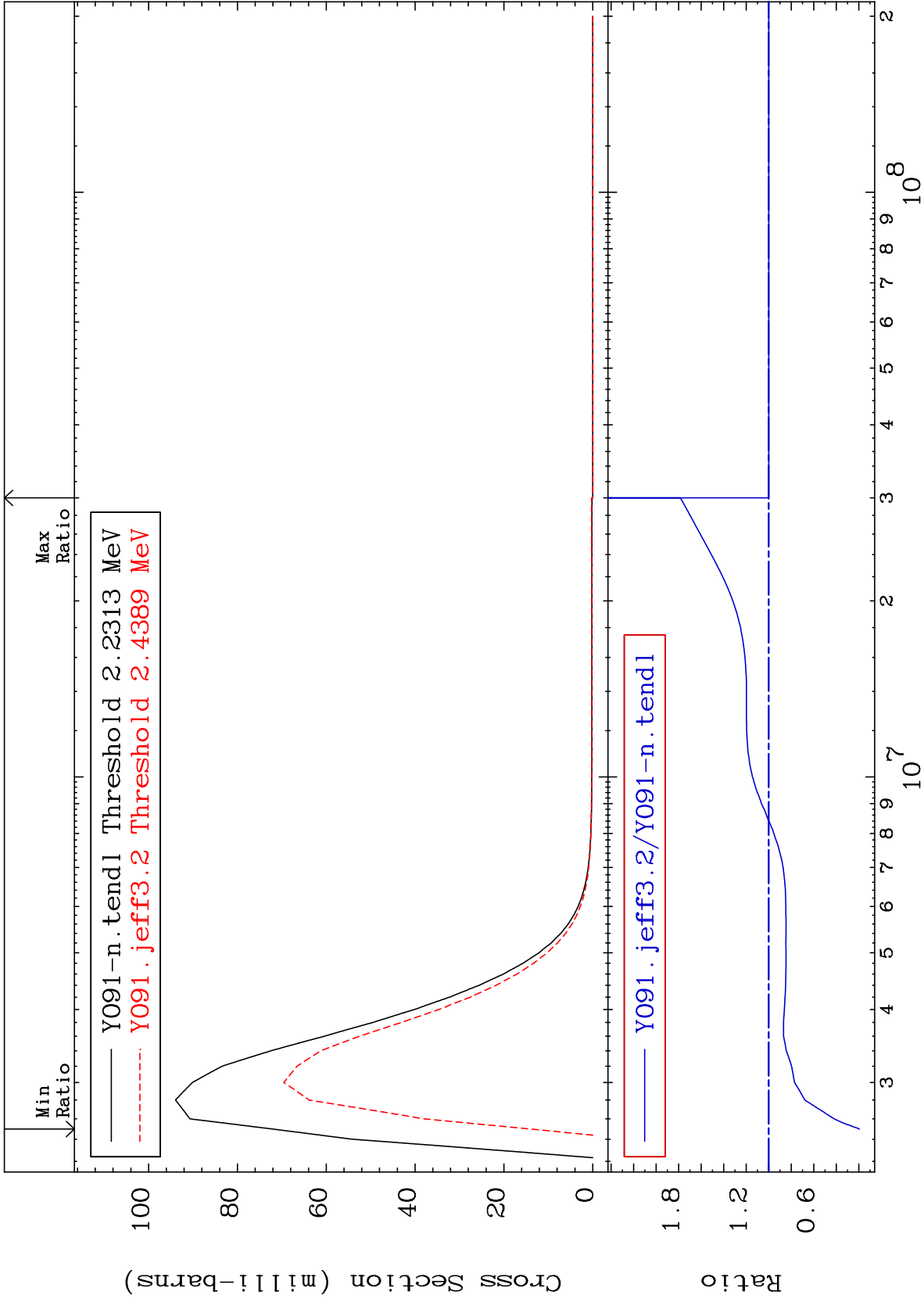


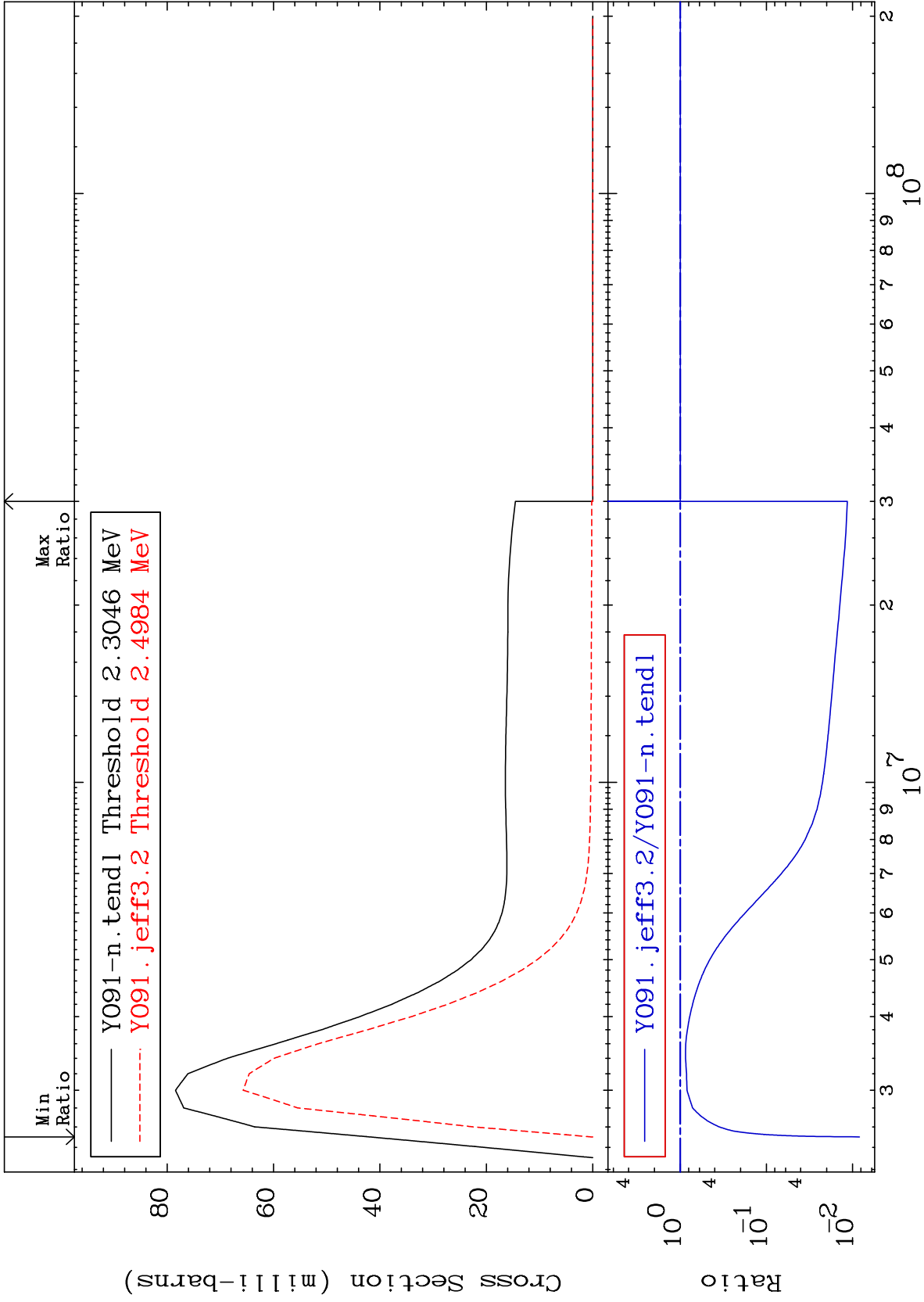


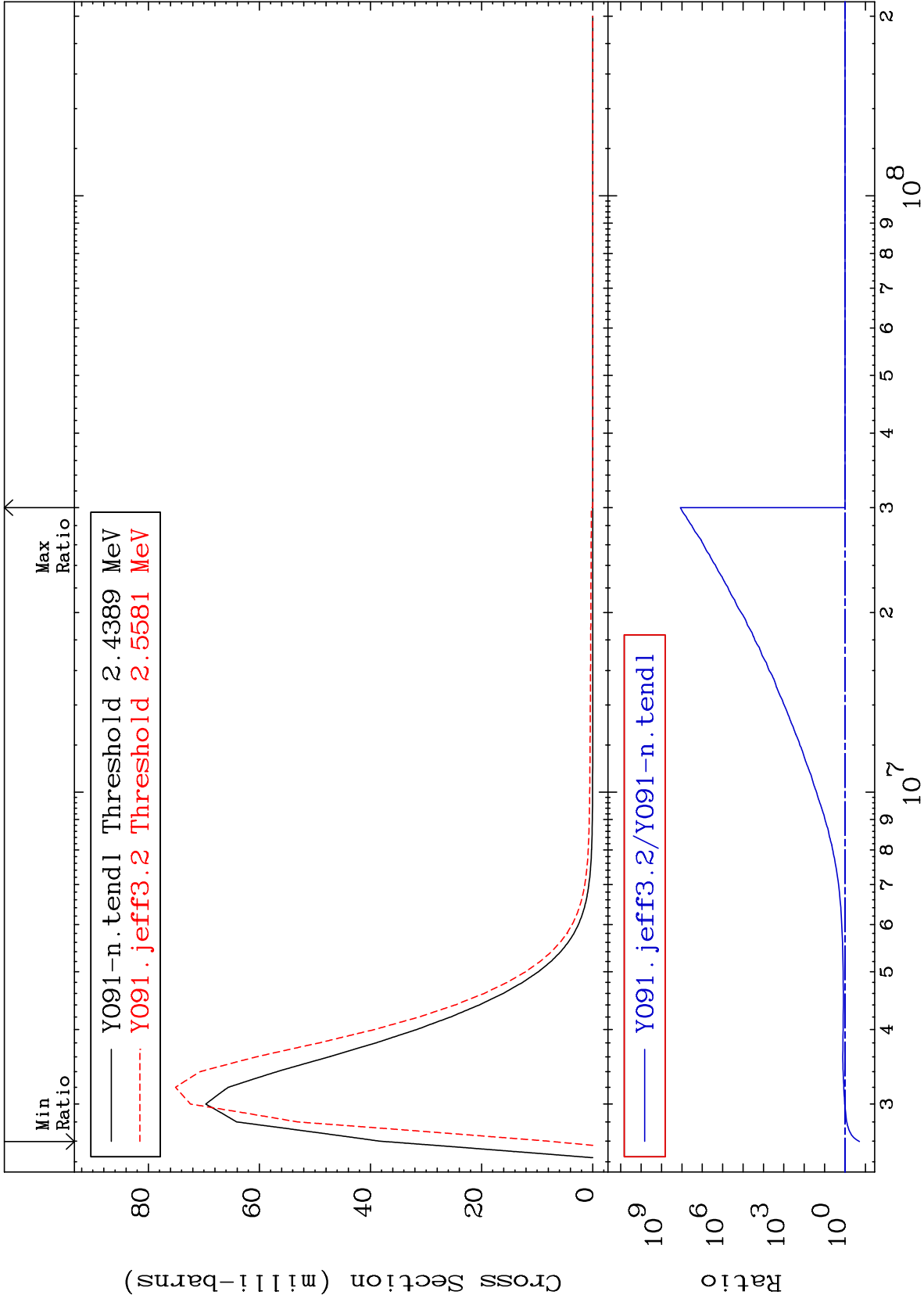
MAT 3931

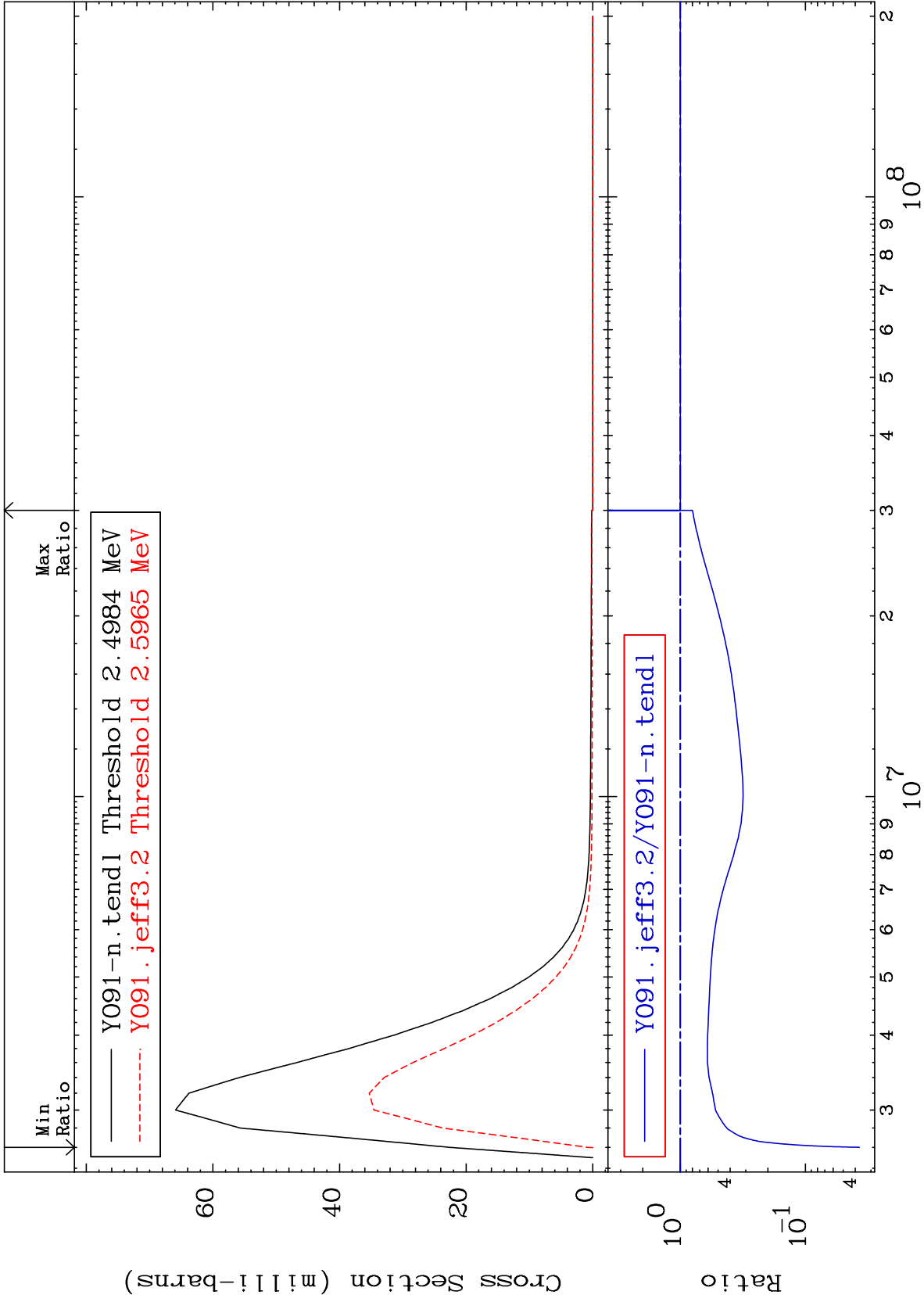
2.207 MeV (n,n') Level
Cross Section

39-Y -91
-80.54 To 78.55 %





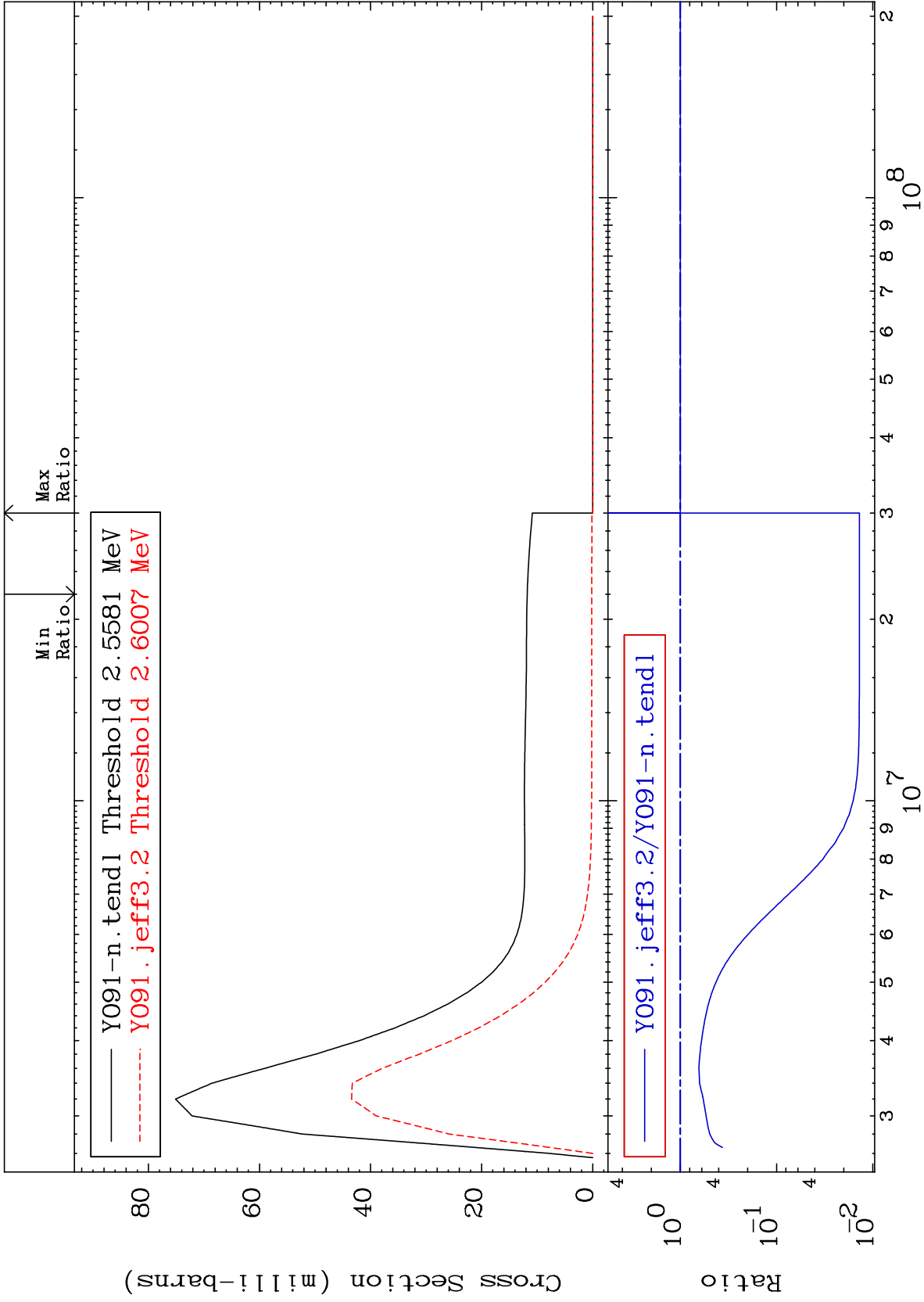




MAT 3931

2.530 MeV (n,n') Level
Cross Section

39-Y -91
-98.62 To 0.000 %



— Y091-n.tendl Threshold 2.5581 MeV
- - - Y091.jeff3.2 Threshold 2.6007 MeV

— Y091.jeff3.2/Y091-n.tendl

39

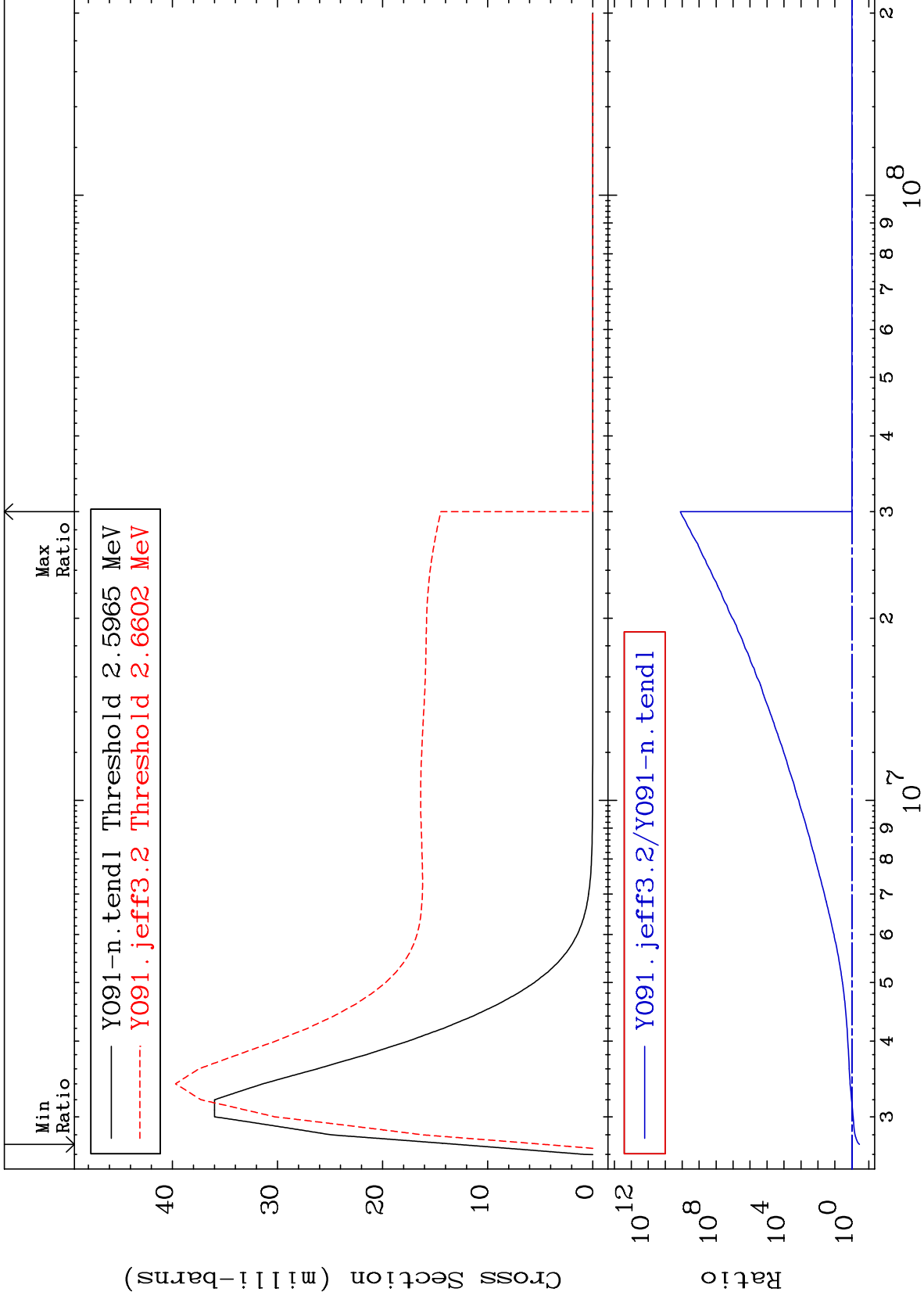
Incident Energy (eV)

39-Y -91

MAT 3931

2.568 MeV (n,n') Level
Cross Section

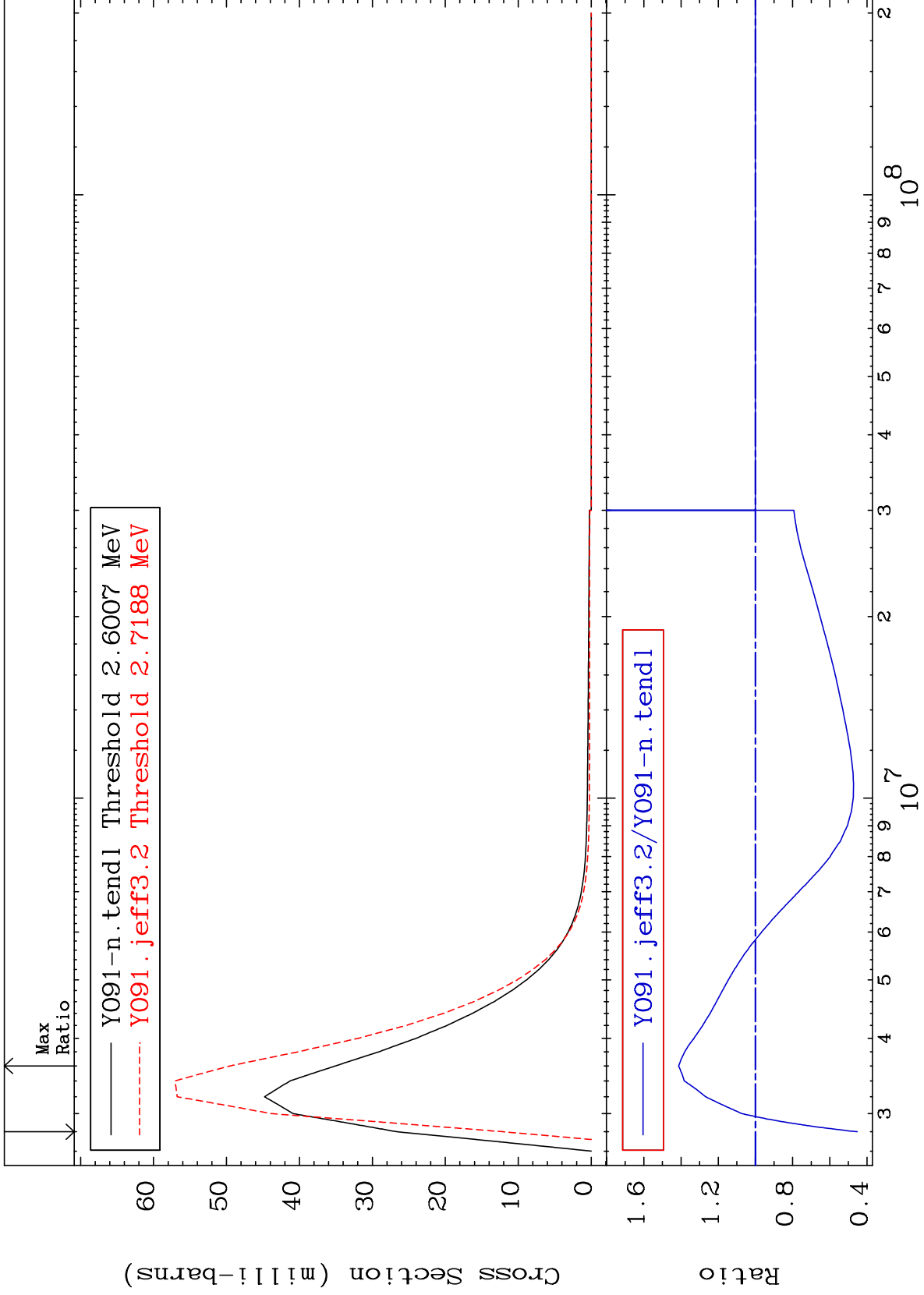
39-Y -91
-64.27 To 9999. %



40

Incident Energy (eV)

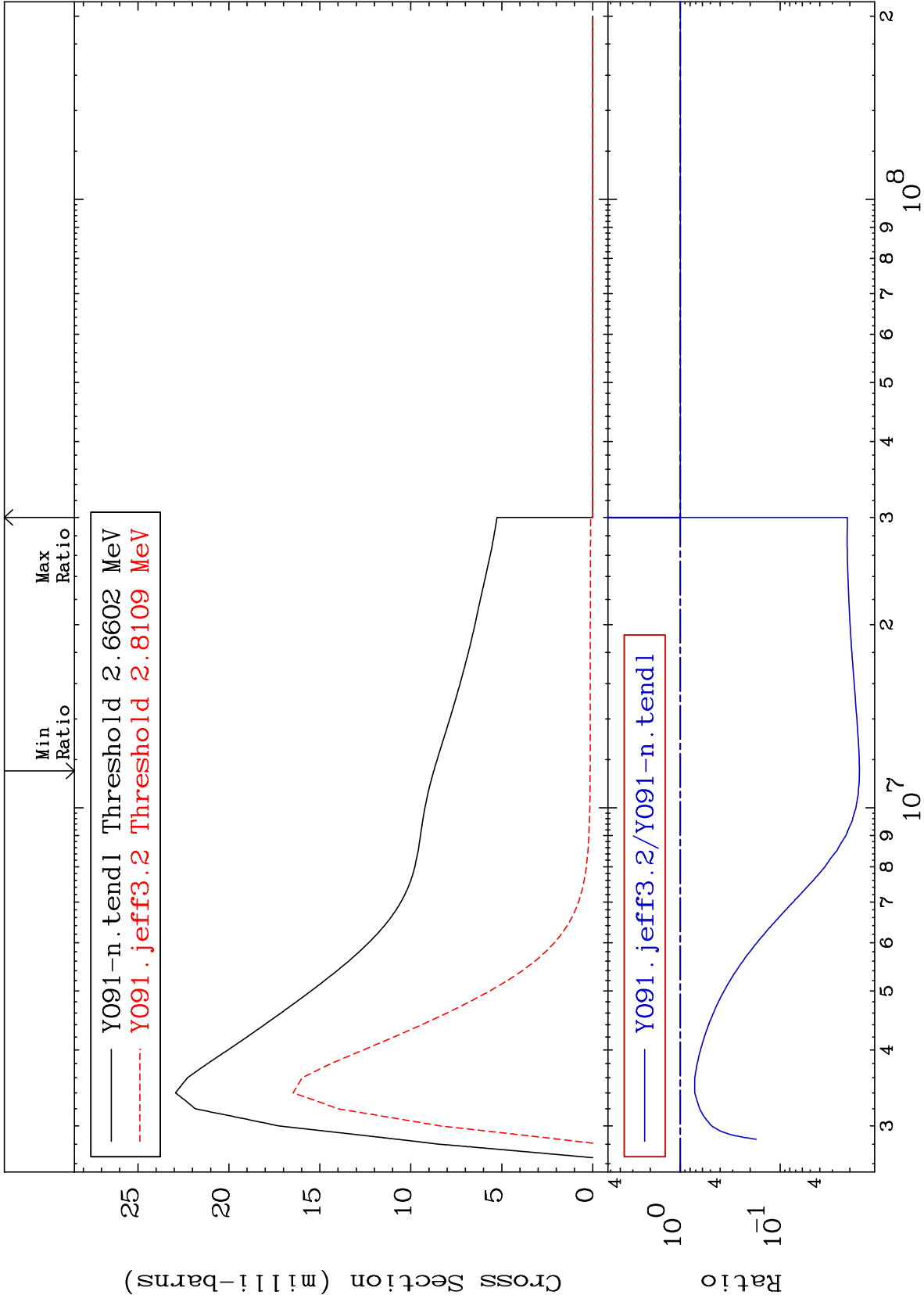
39-Y -91

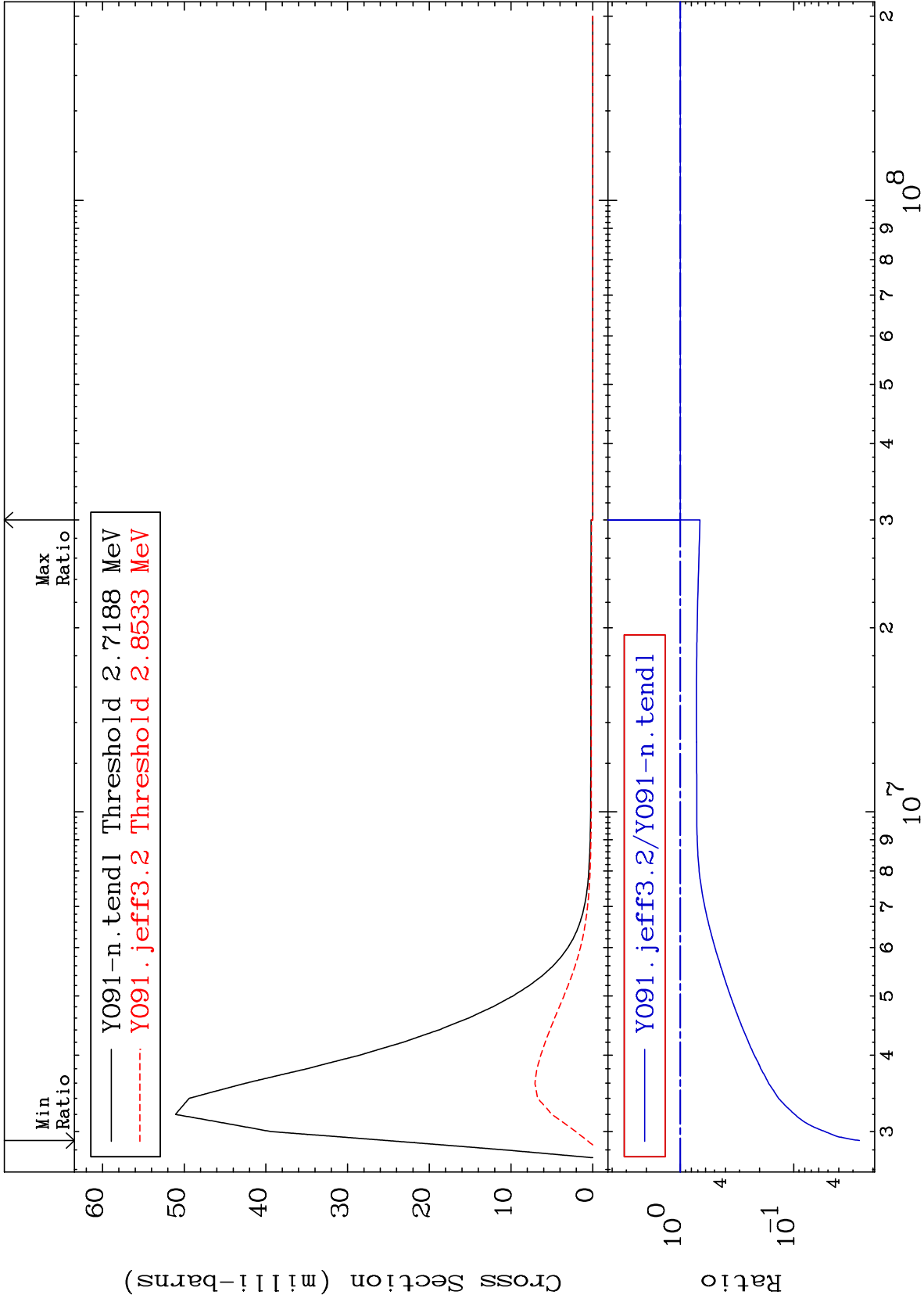


MAT 3931

2.631 MeV (n,n') Level
Cross Section

39-Y -91
-98.39 To 0.000 %

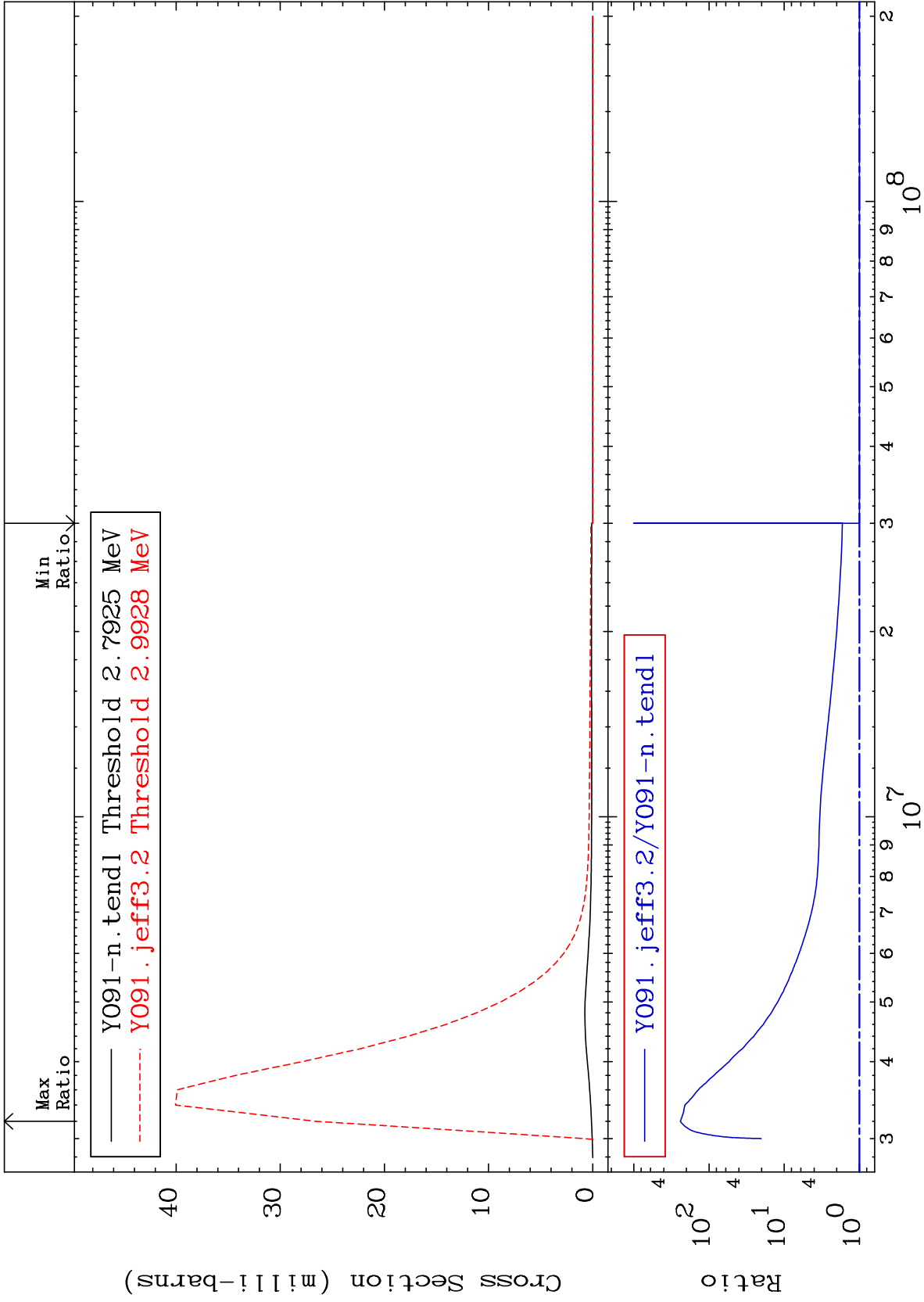




MAT 3931

2.762 MeV (n,n') Level
Cross Section

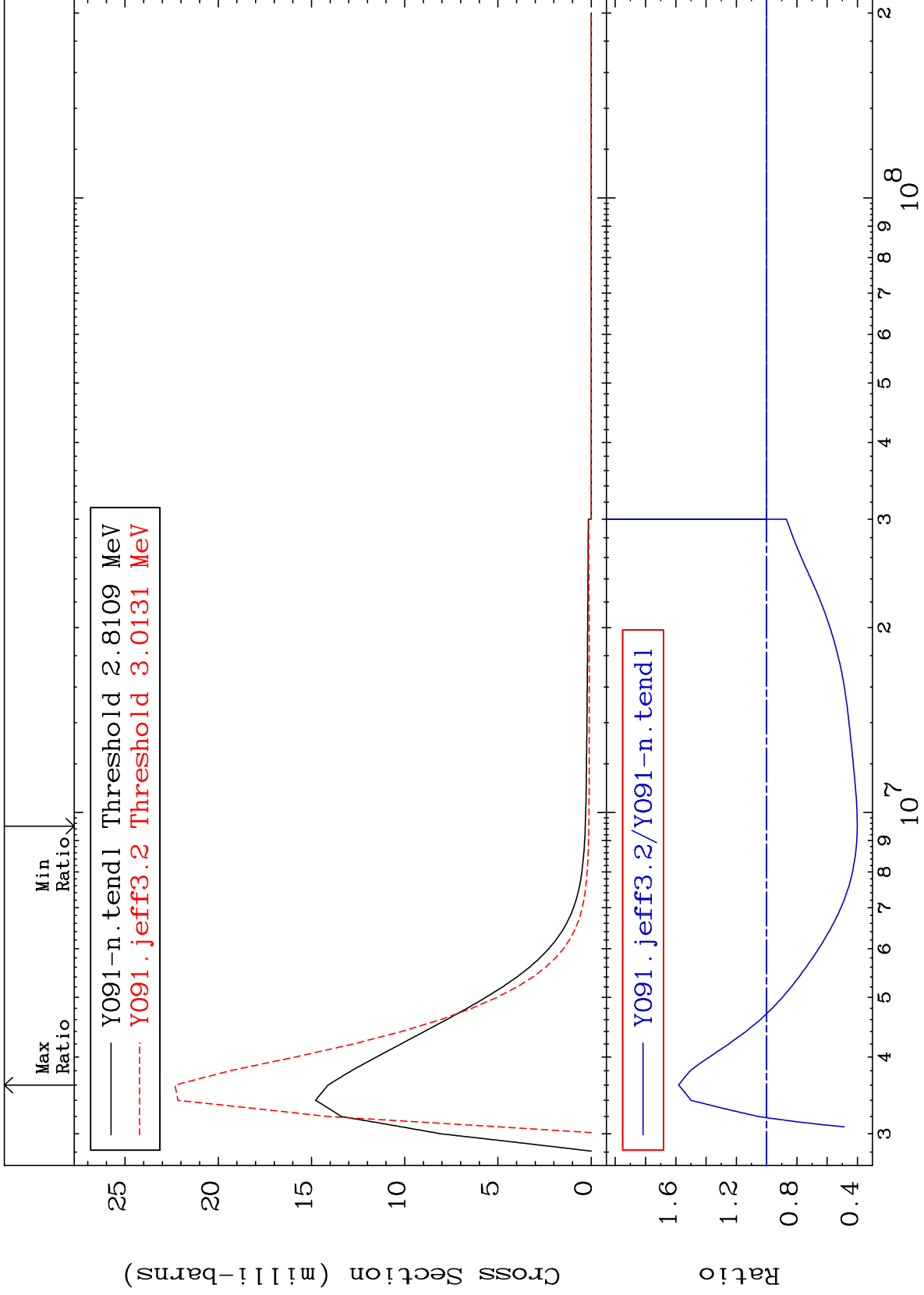
39-Y -91
0.000 To 9999. %



MAT 3931

2.780 MeV (n,n') Level
Cross Section

39-Y -91
-59.87 To 58.12 %



45

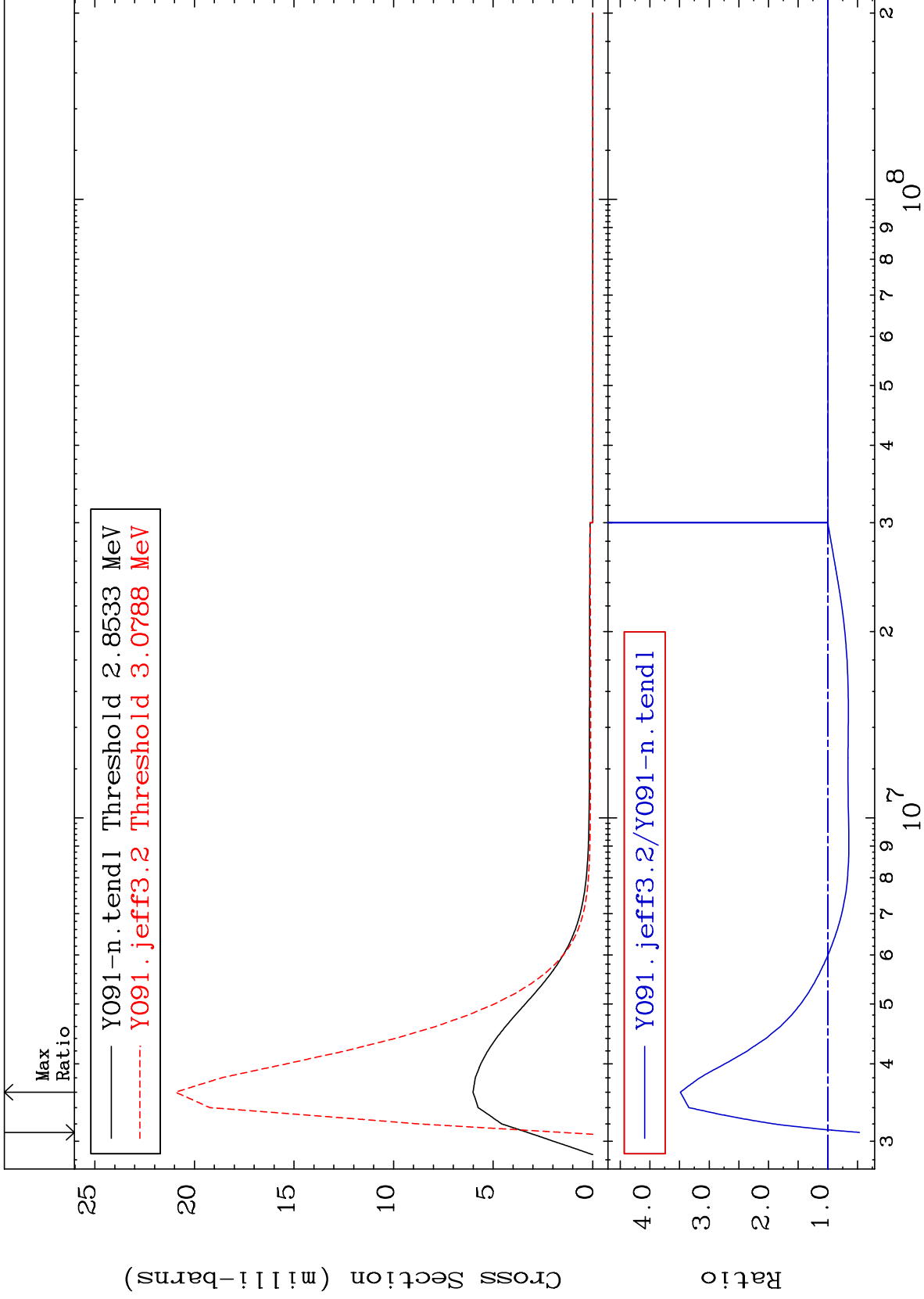
Incident Energy (eV)

39-Y -91

MAT 3931

2.822 MeV (n,n') Level
Cross Section

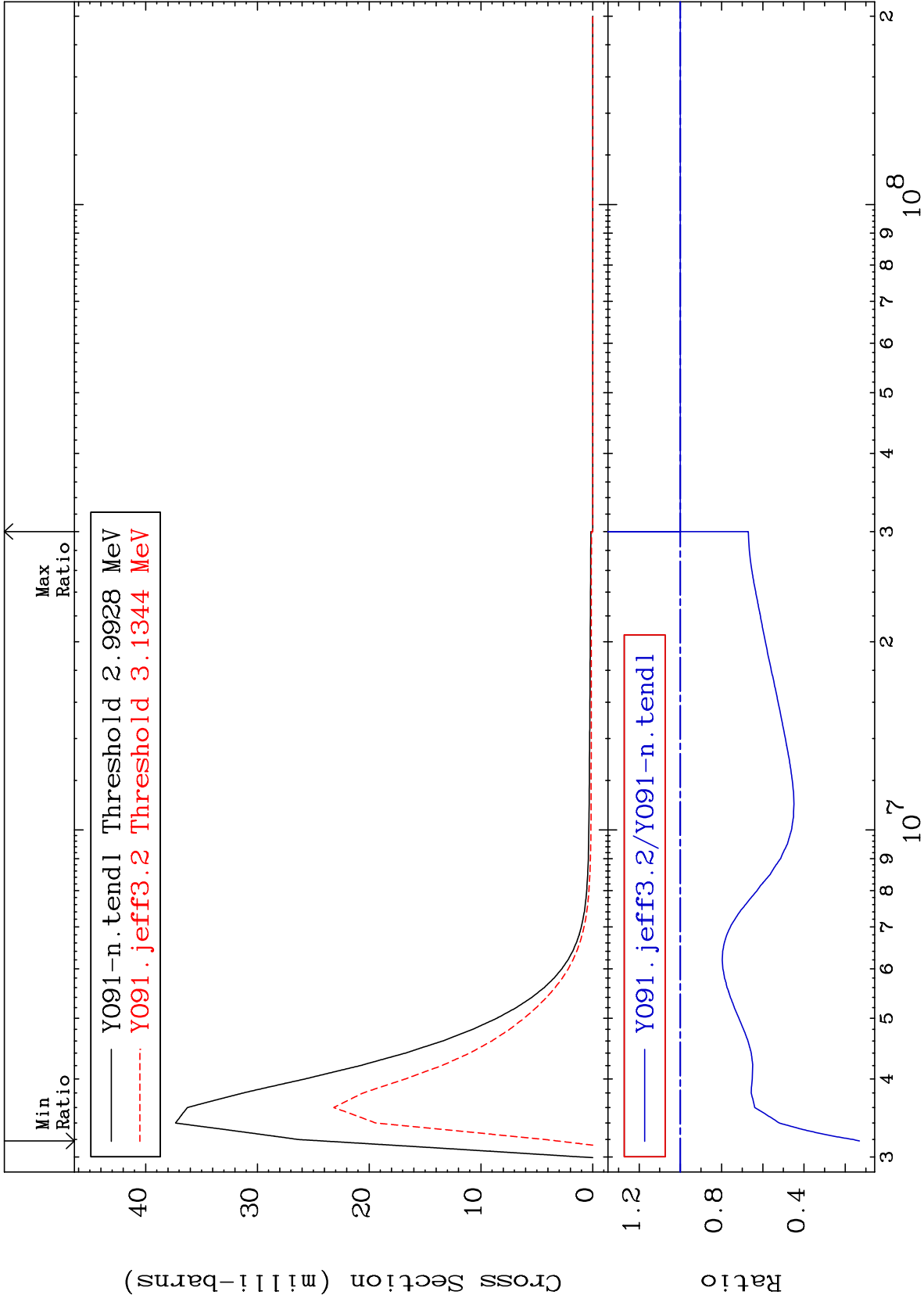
39-Y -91
-53.22 To 248.6 %



MAT 3931

2.960 MeV (n,n') Level
Cross Section

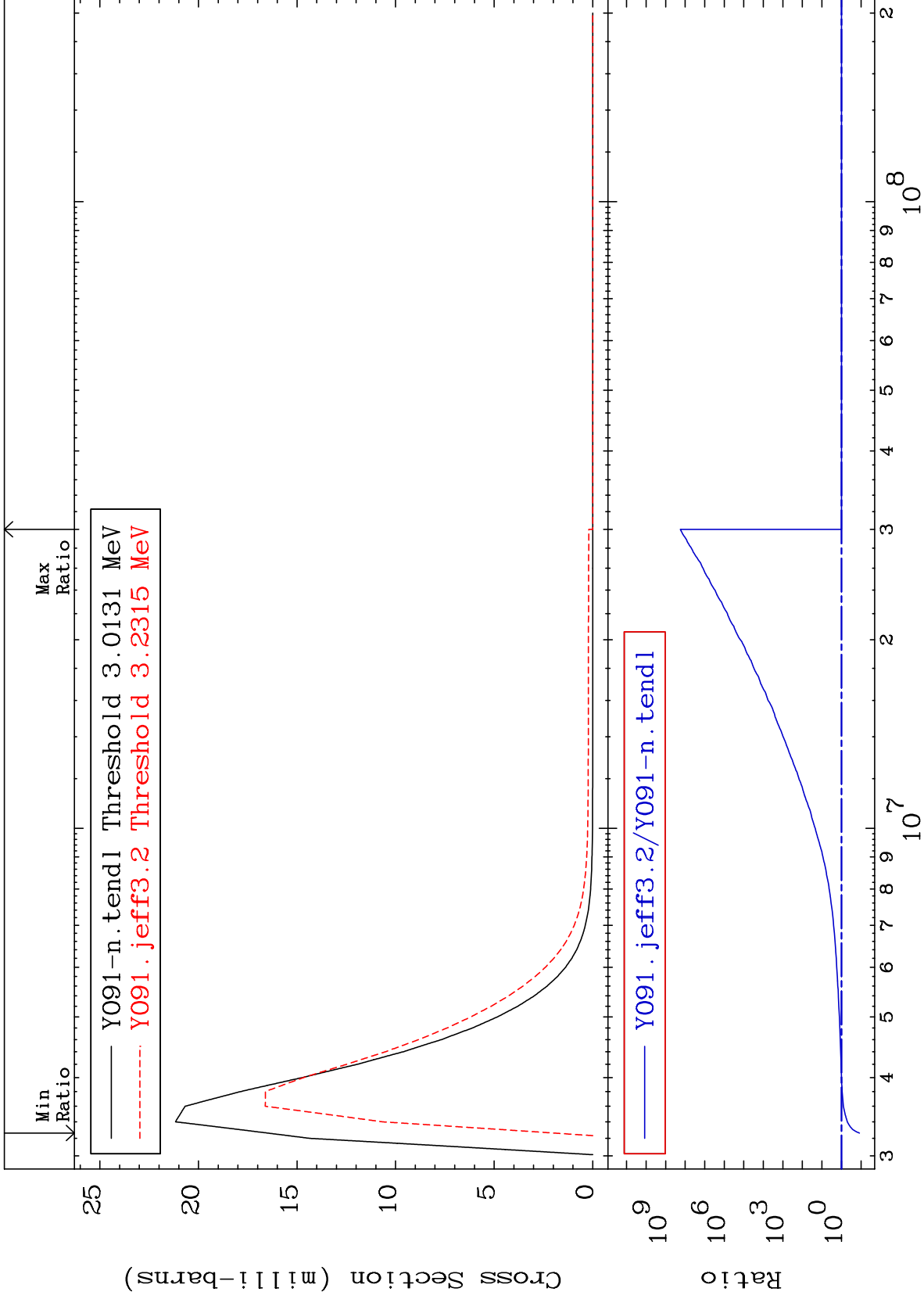
39-Y -91
-86.89 To 0.000 %

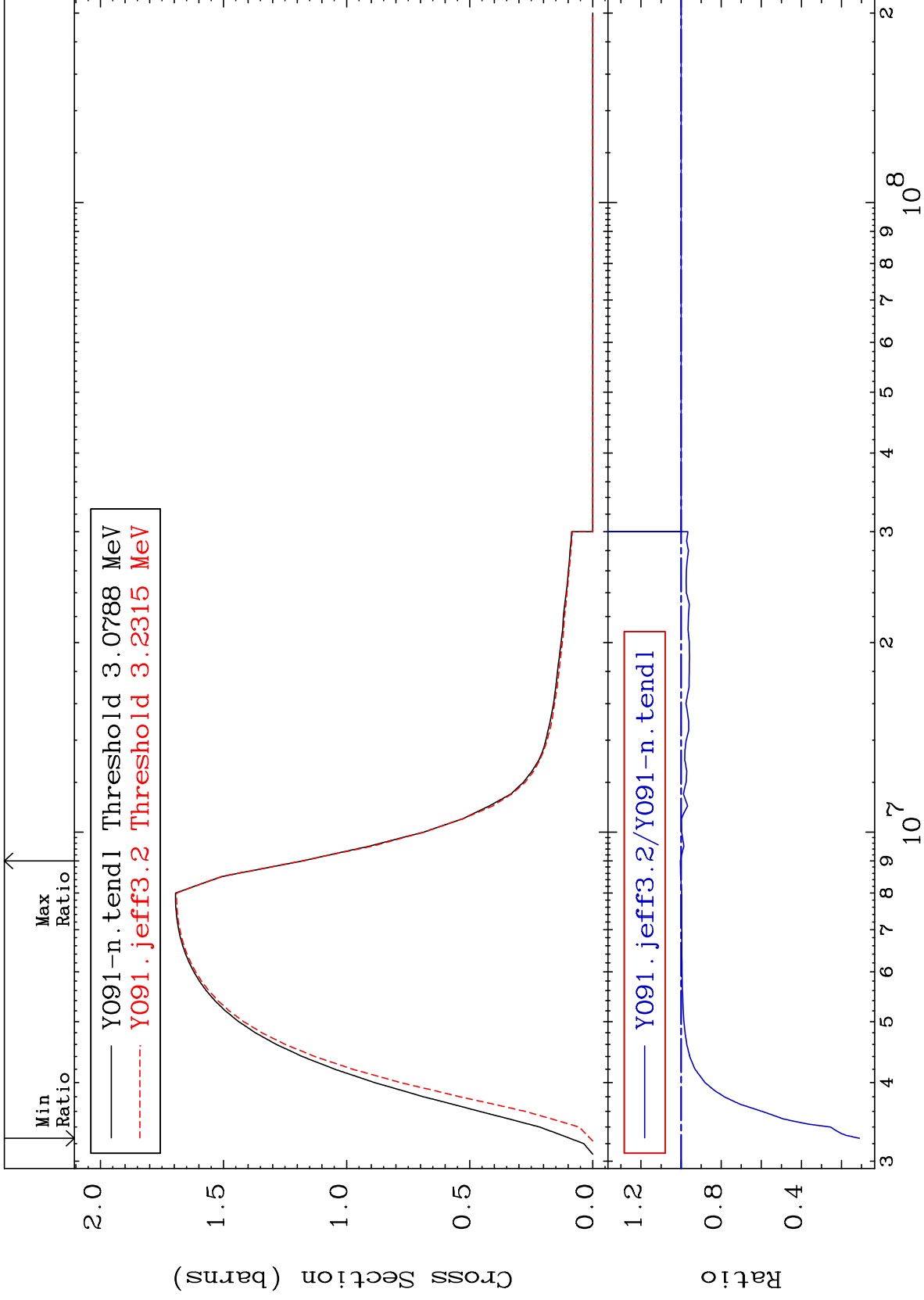


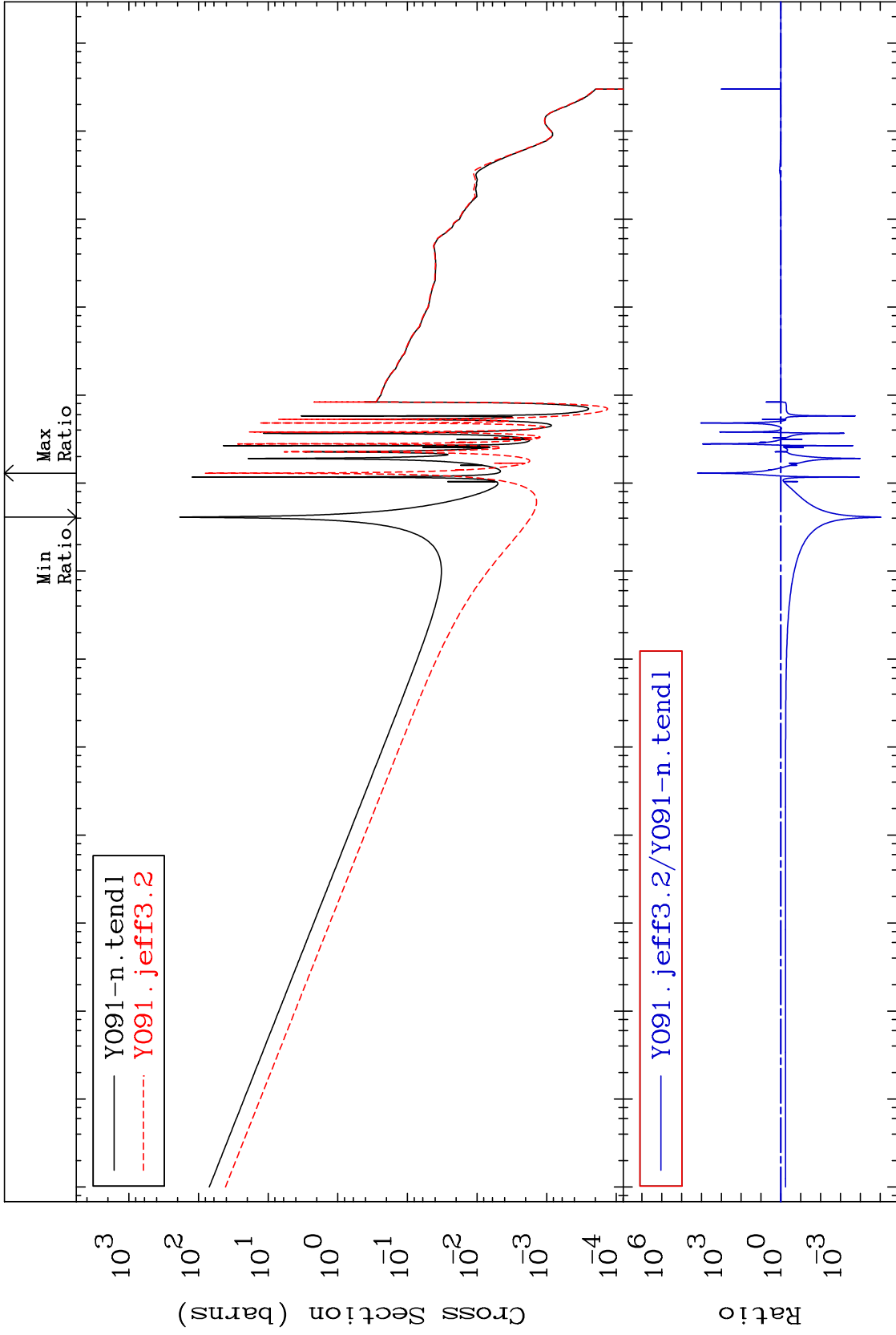
47

Incident Energy (eV)

39-Y -91







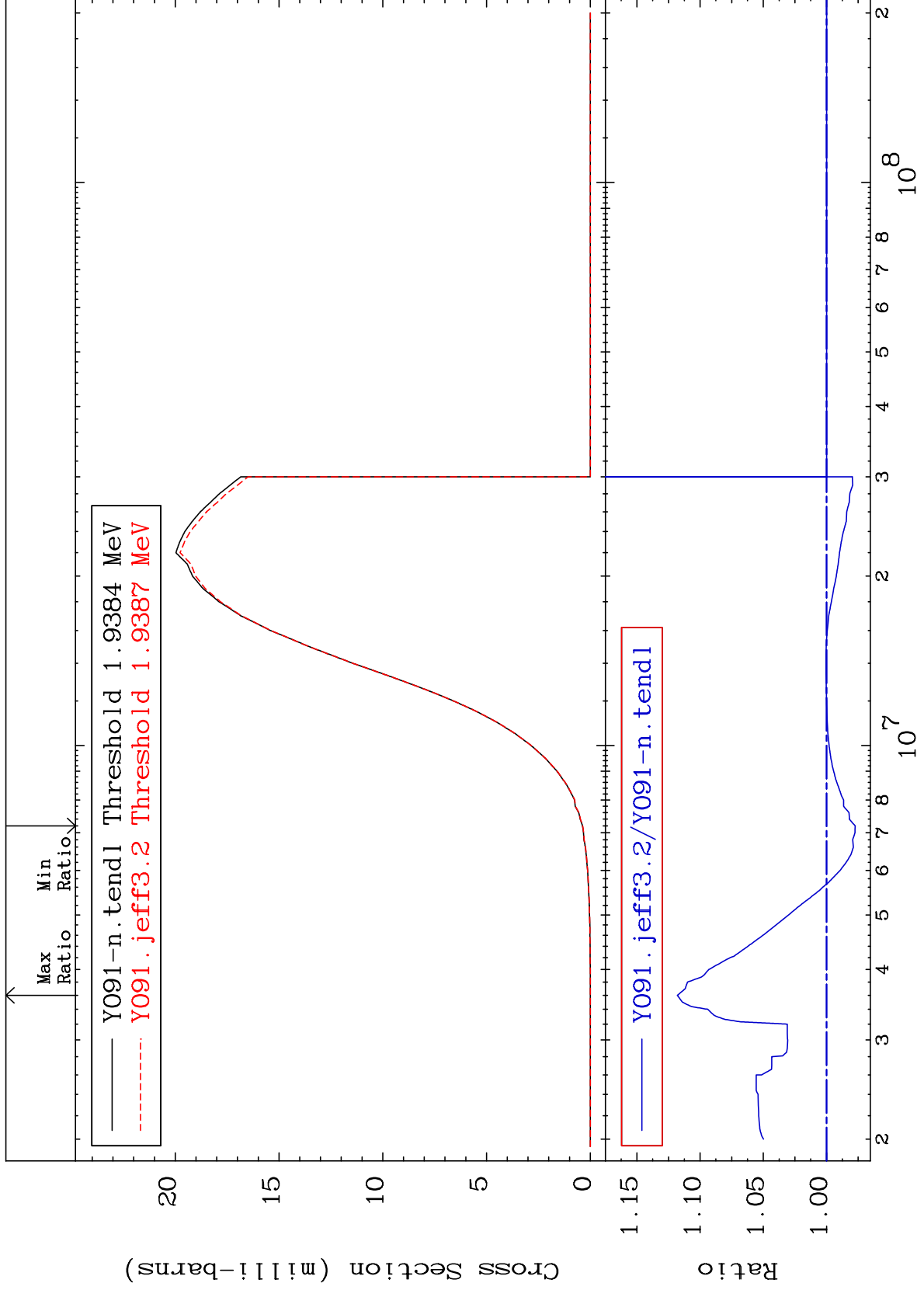
MAT 3931

(n,p)

Cross Section

39-Y -91

-2.269 To 11.80 %



51

Incident Energy (eV)

39-Y -91

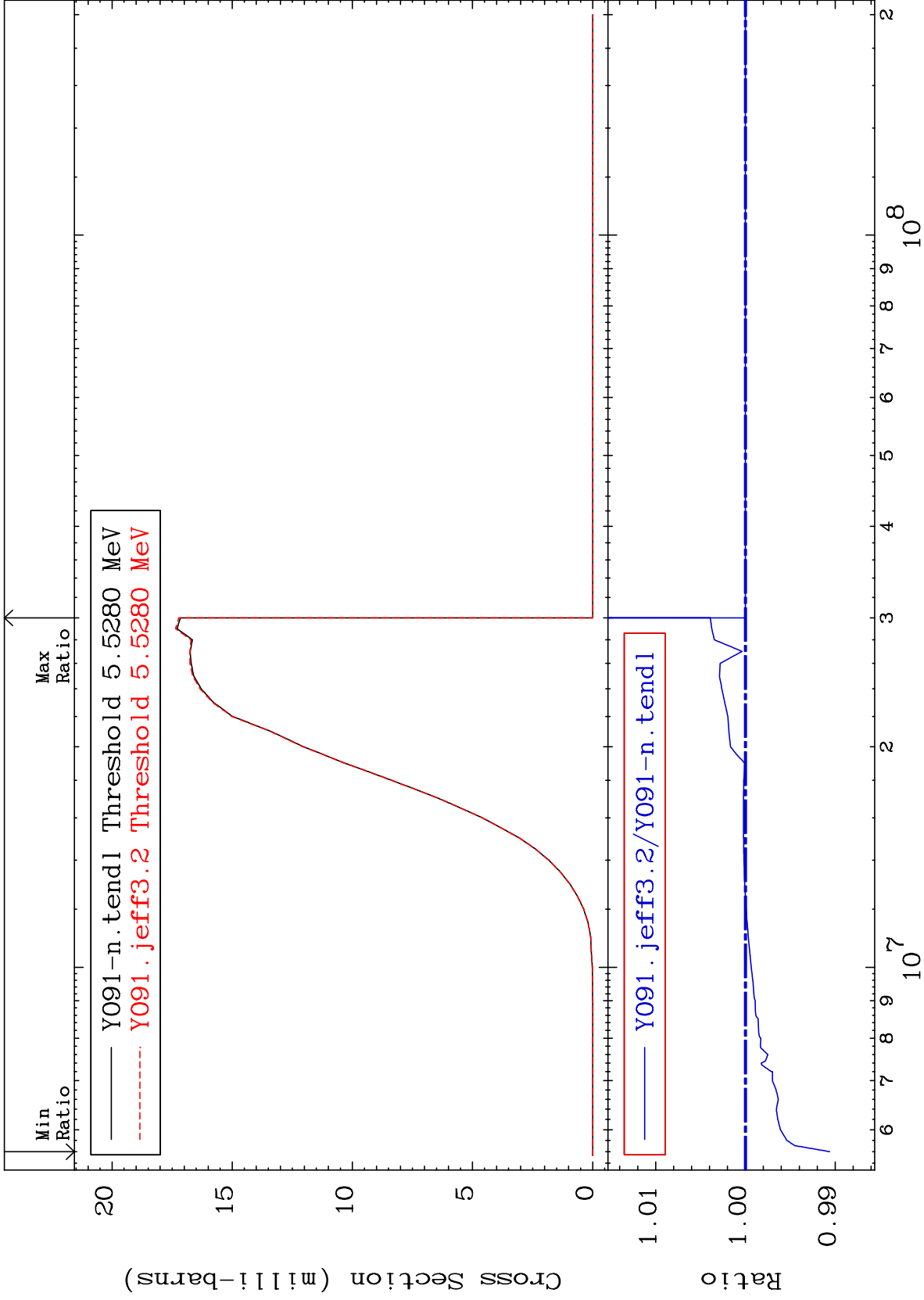
MAT 3931

(n, d)

39-Y -91

Cross Section

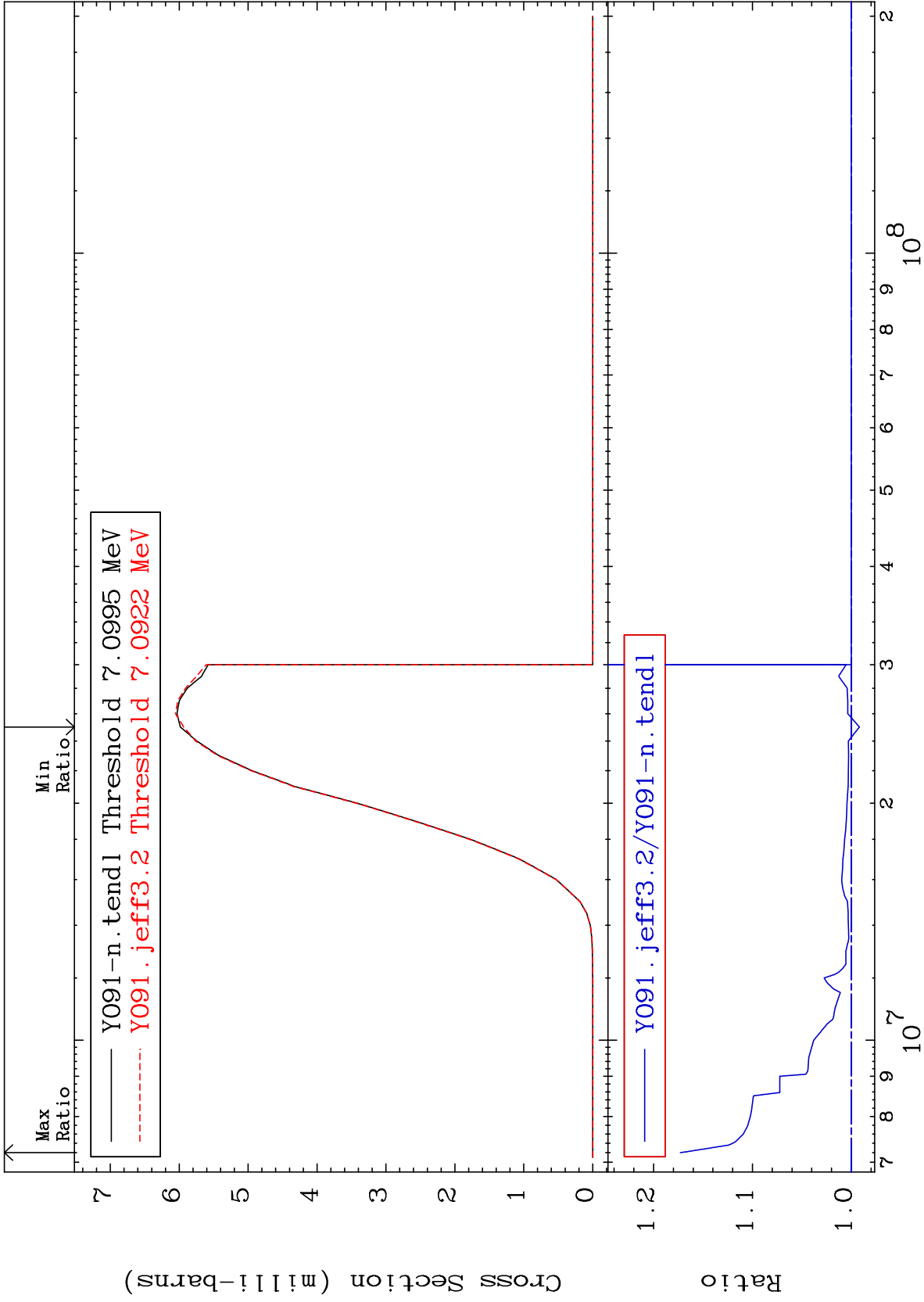
-0.937 To 0.392 %

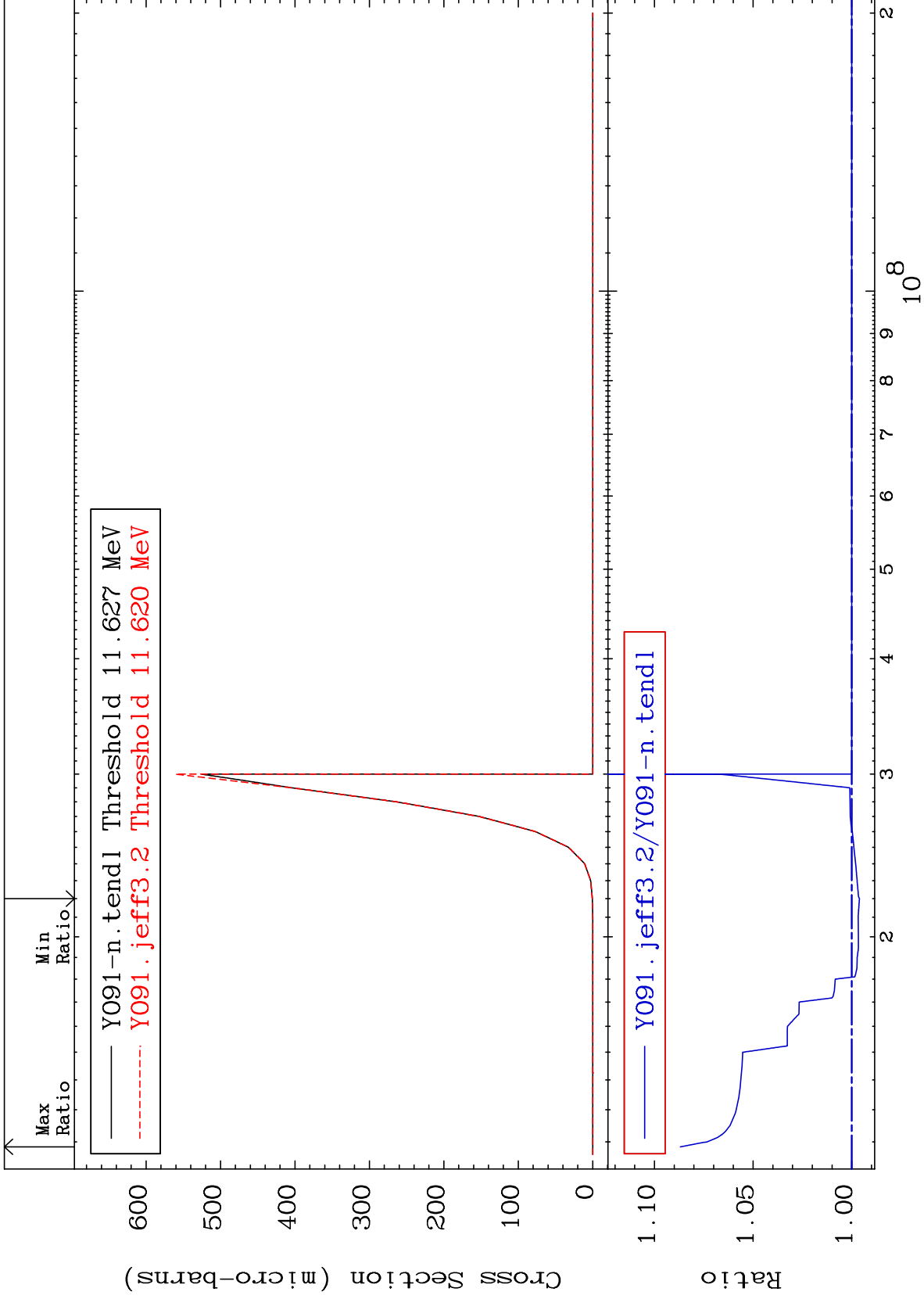


52

Incident Energy (eV)

39-Y -91





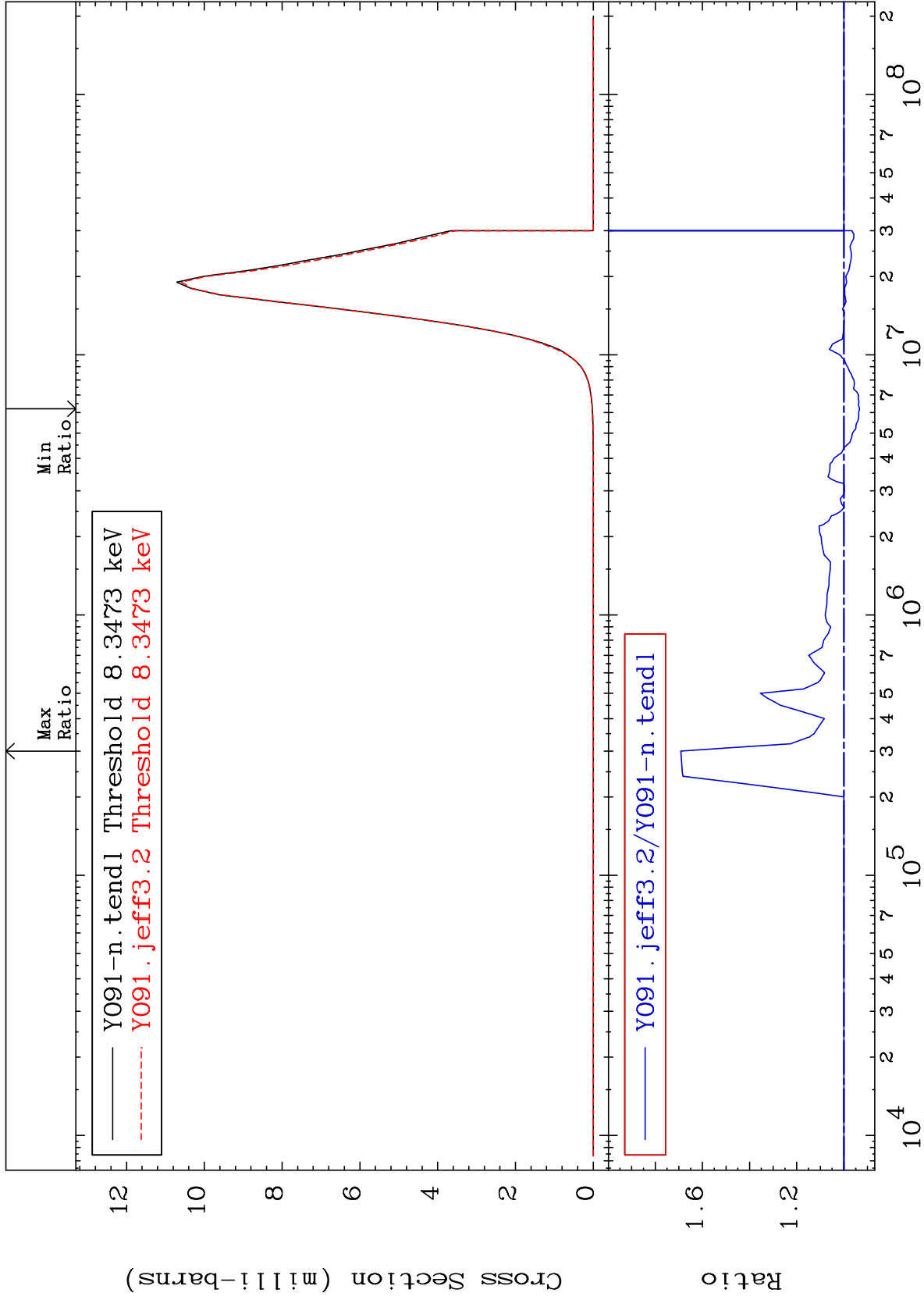
MAT 3931

(n, α)

39-Y -91

Cross Section

-6.616 To 69.18 %



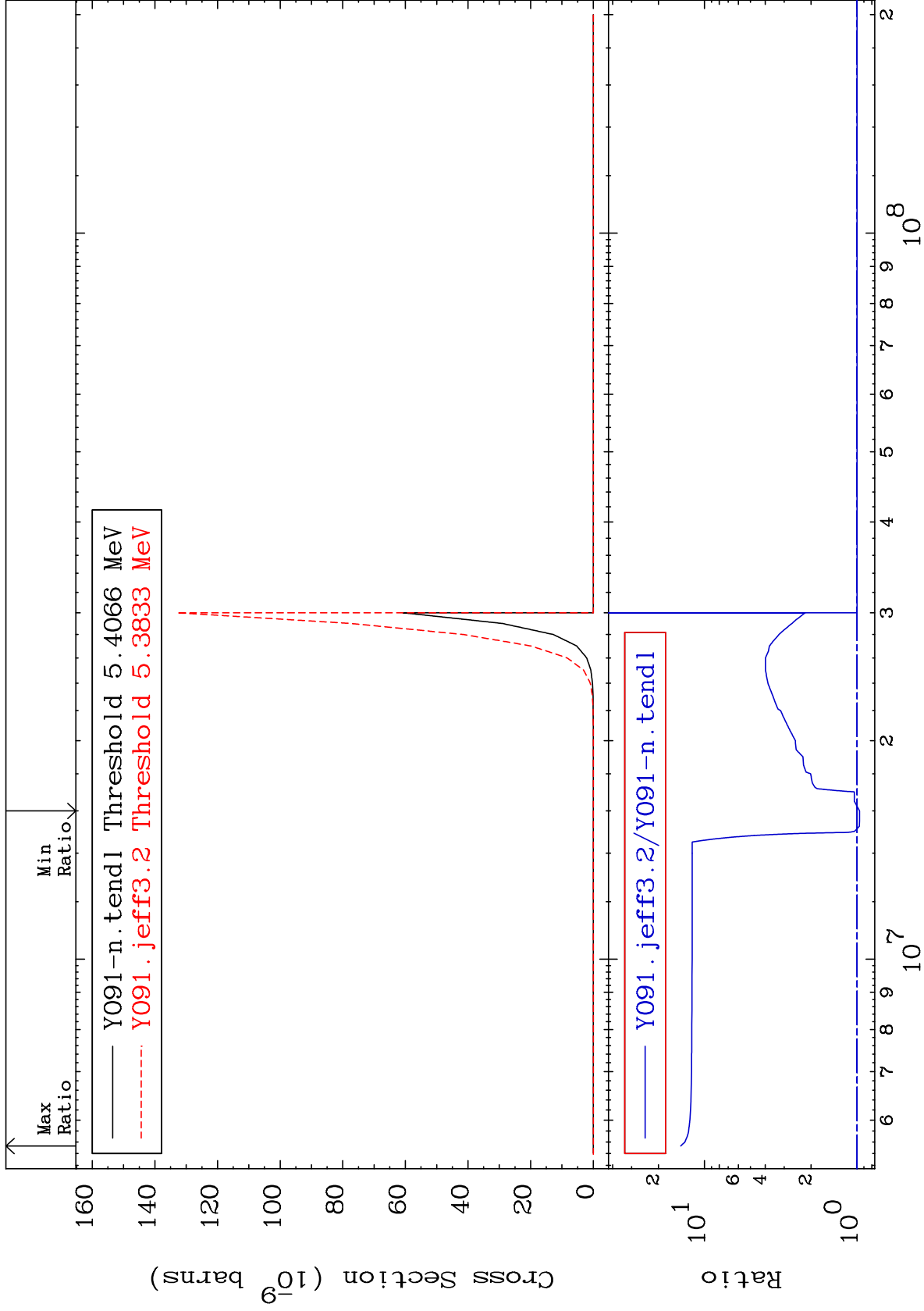
55

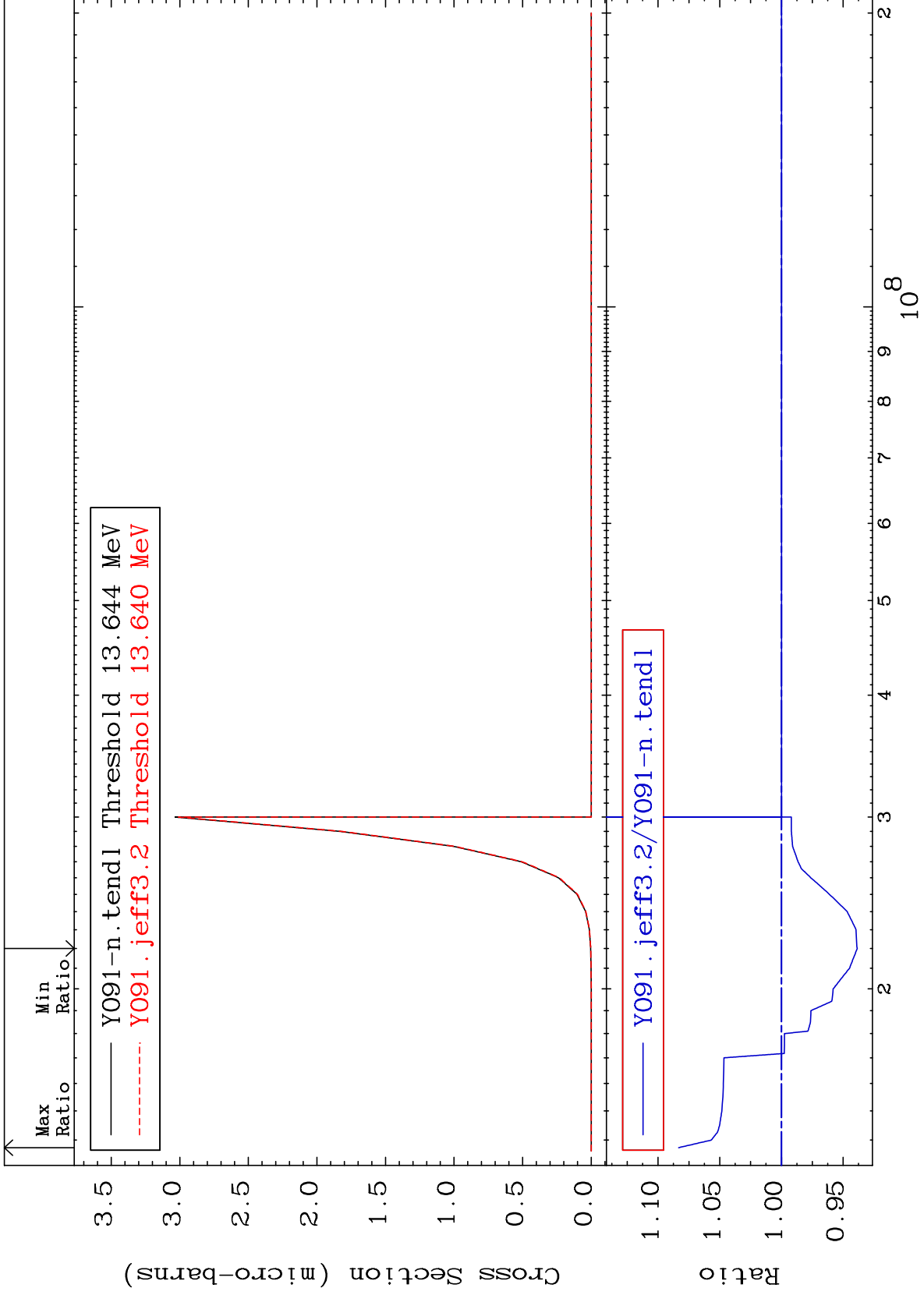
Incident Energy (eV)

39-Y -91

Cross Section

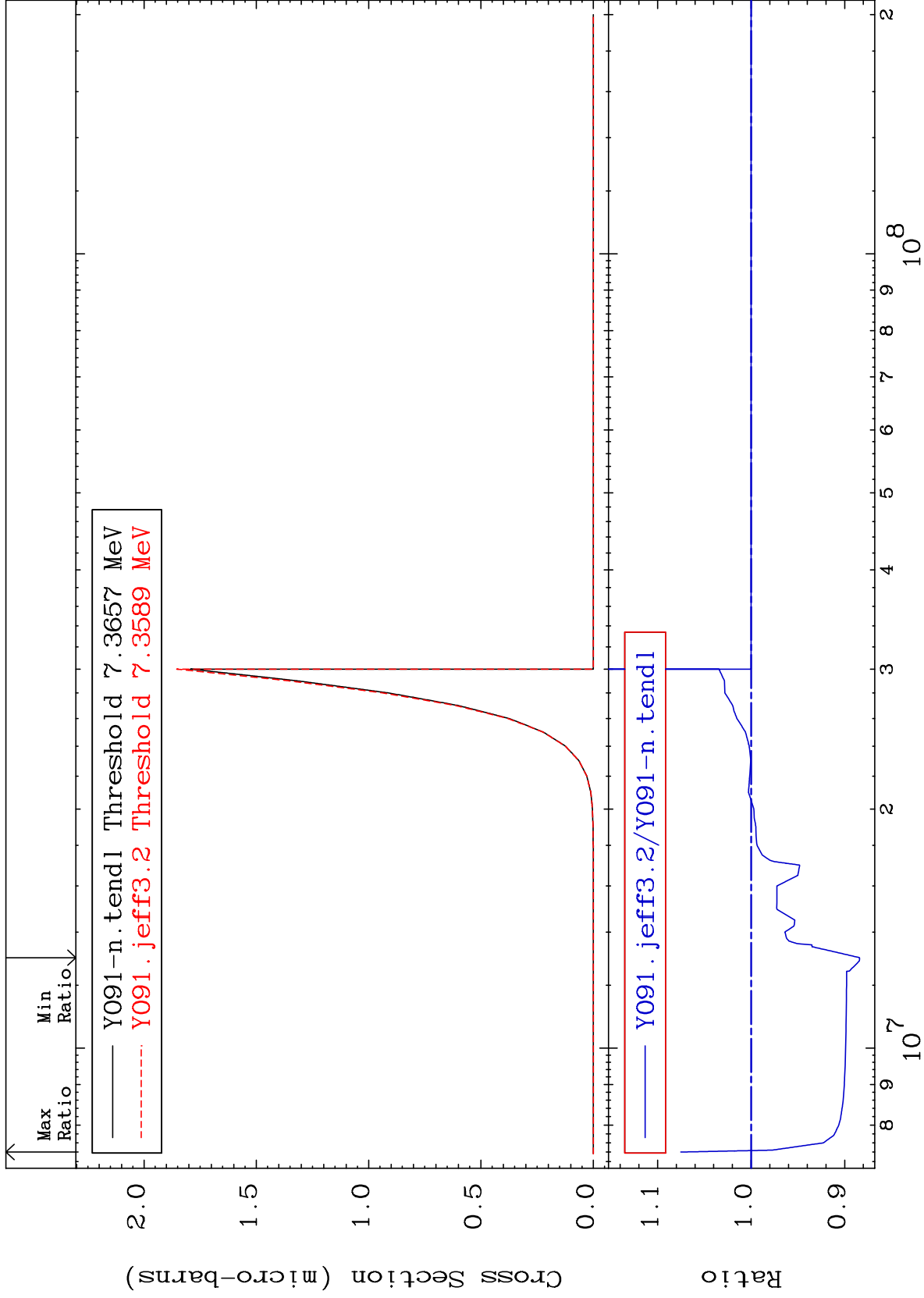
-3.744 To 1330. %

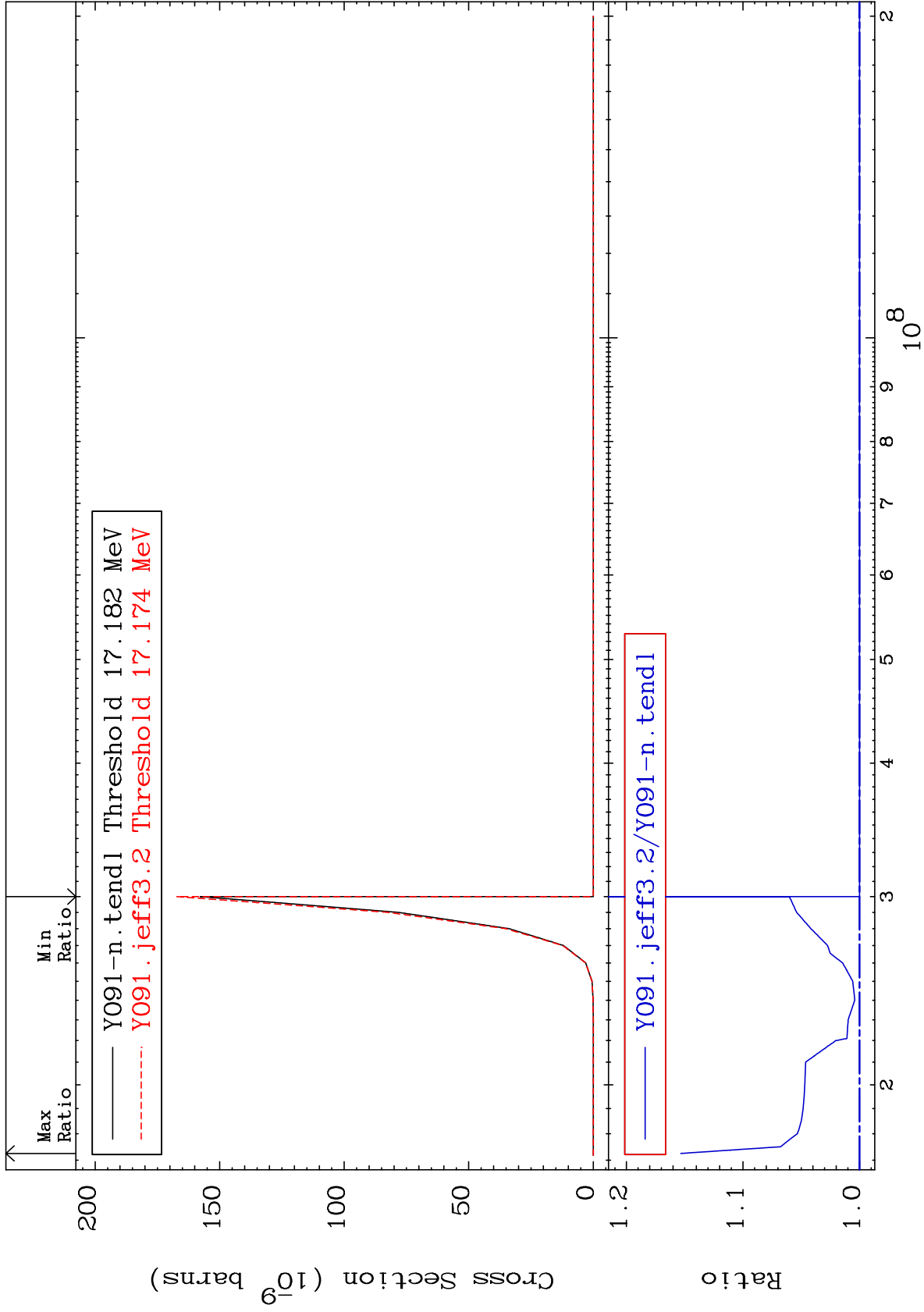




Cross Section

-11.59 To 7.520 %

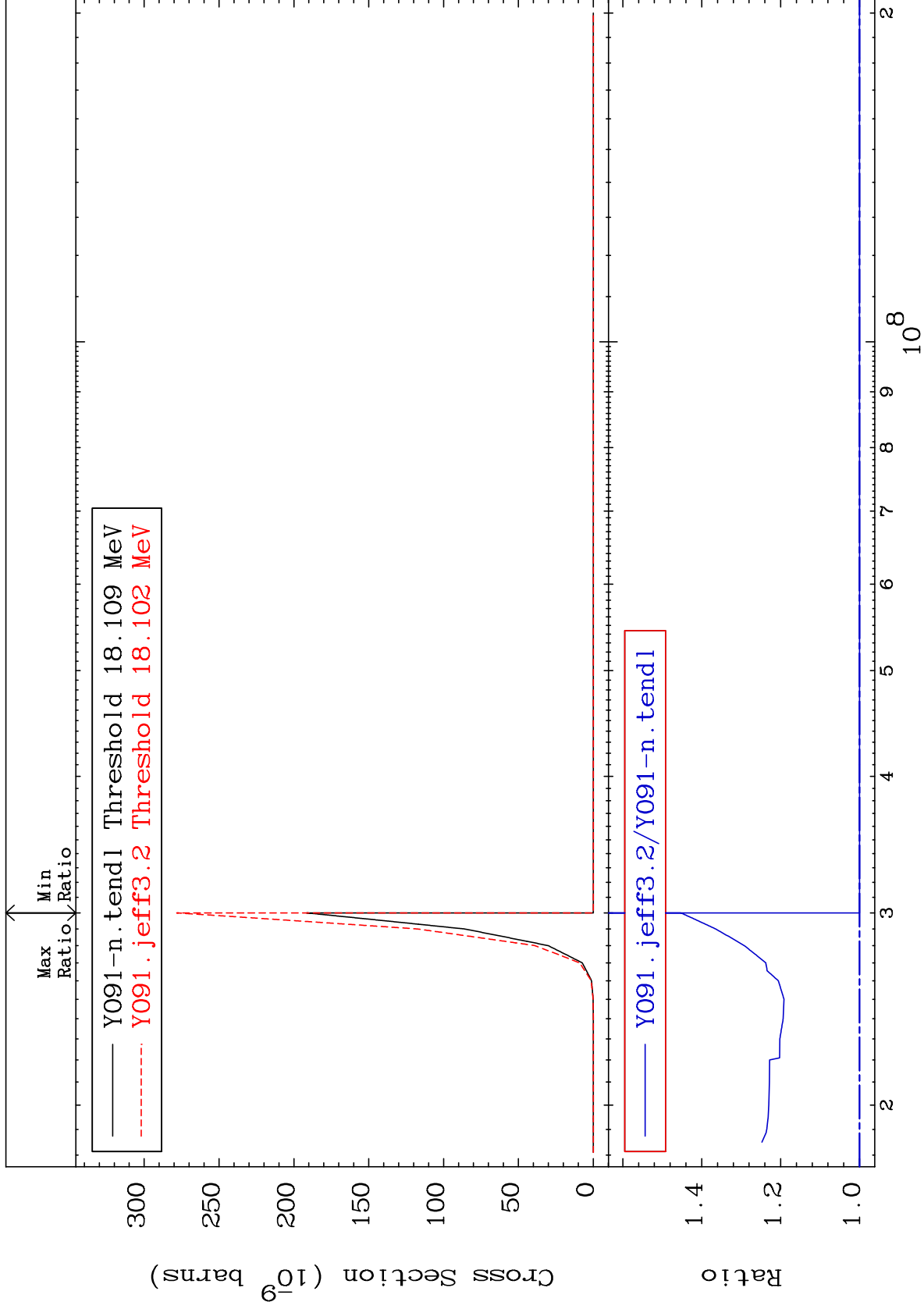




MAT 3931

(n,p) t
Cross Section

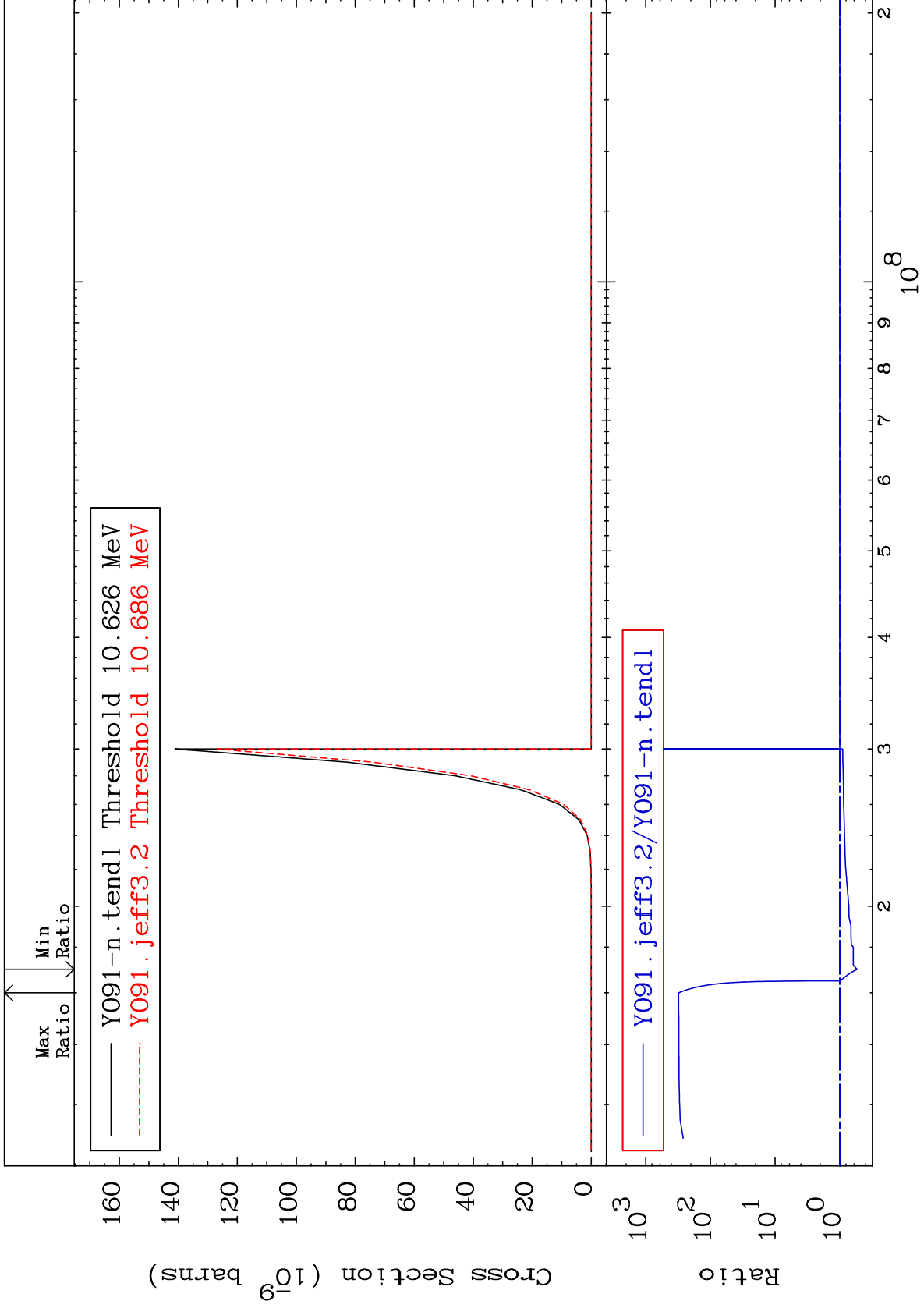
39-Y -91
0.000 To 45.31 %

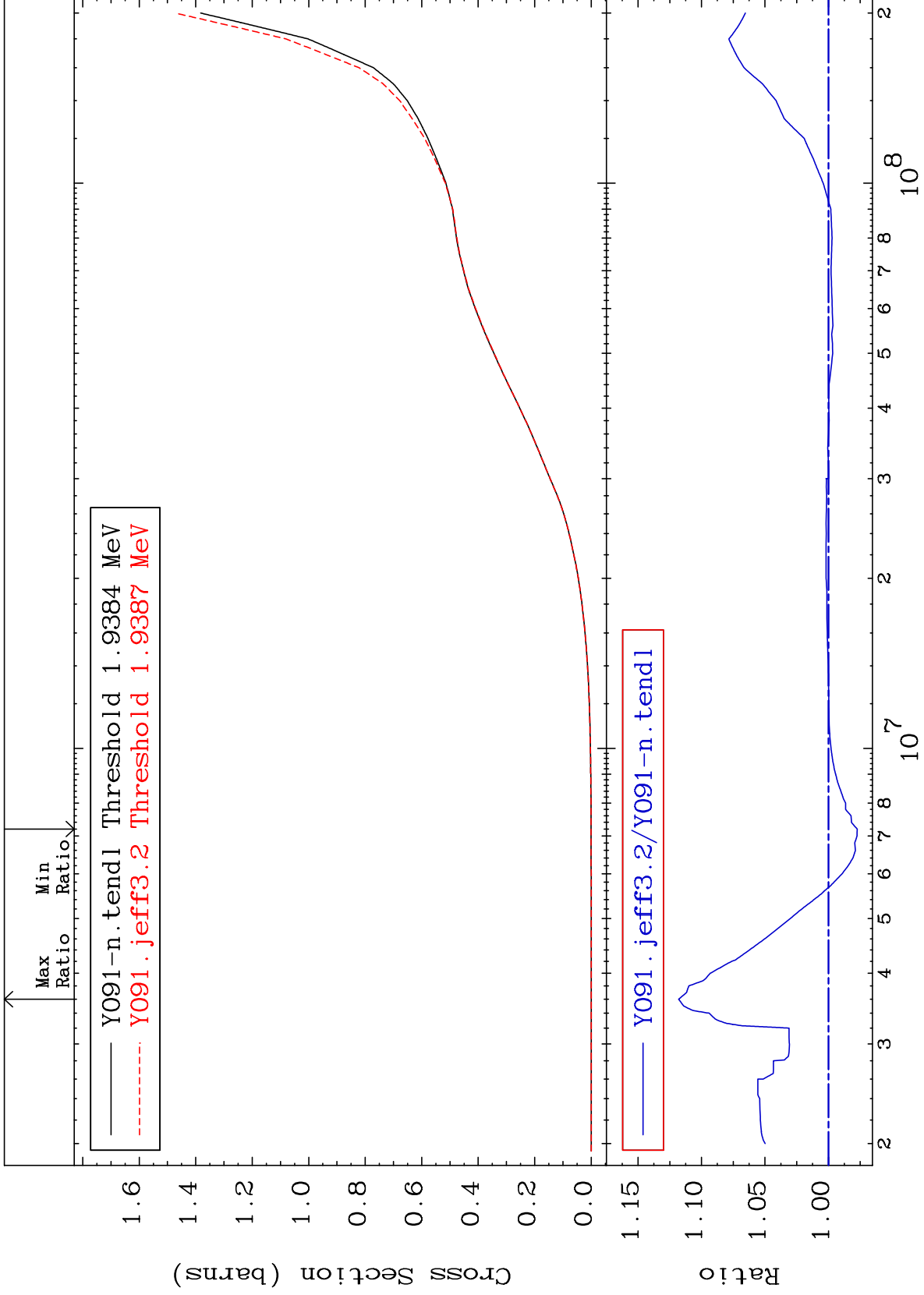


60

Incident Energy (eV)

39-Y -91

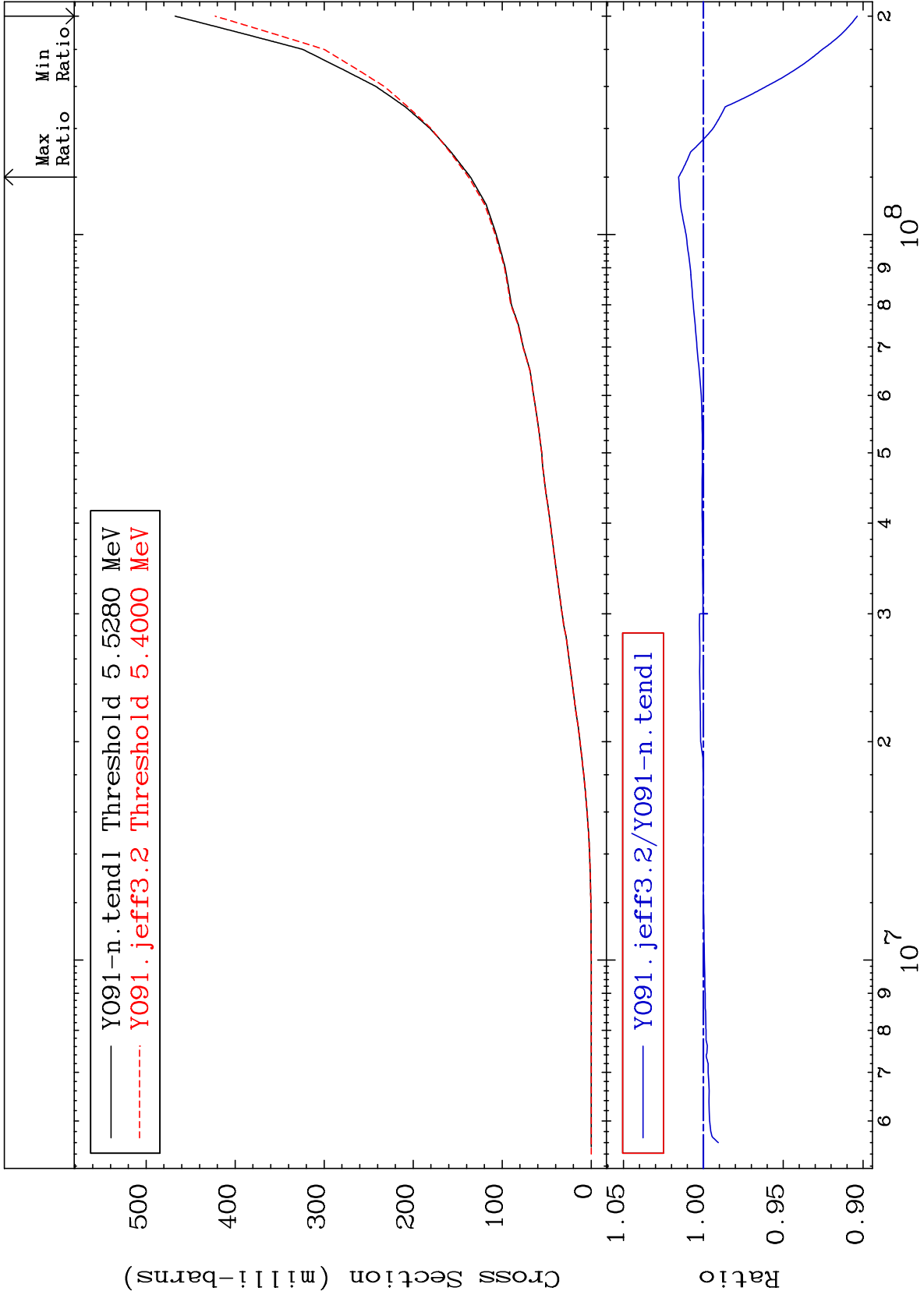




MAT 3931

Deuterium Production
Cross Section

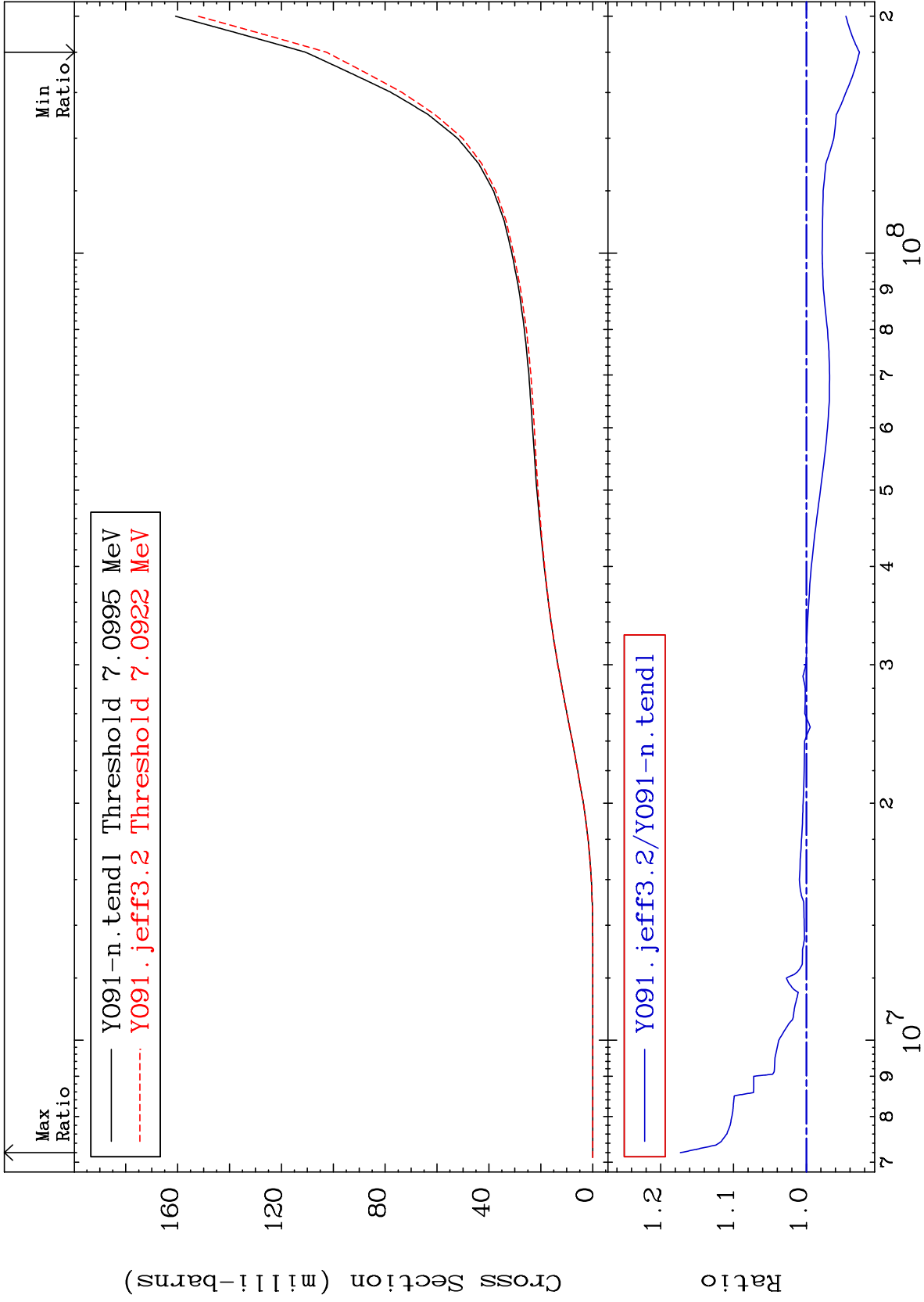
39-Y -91
-9.638 To 1.550 %

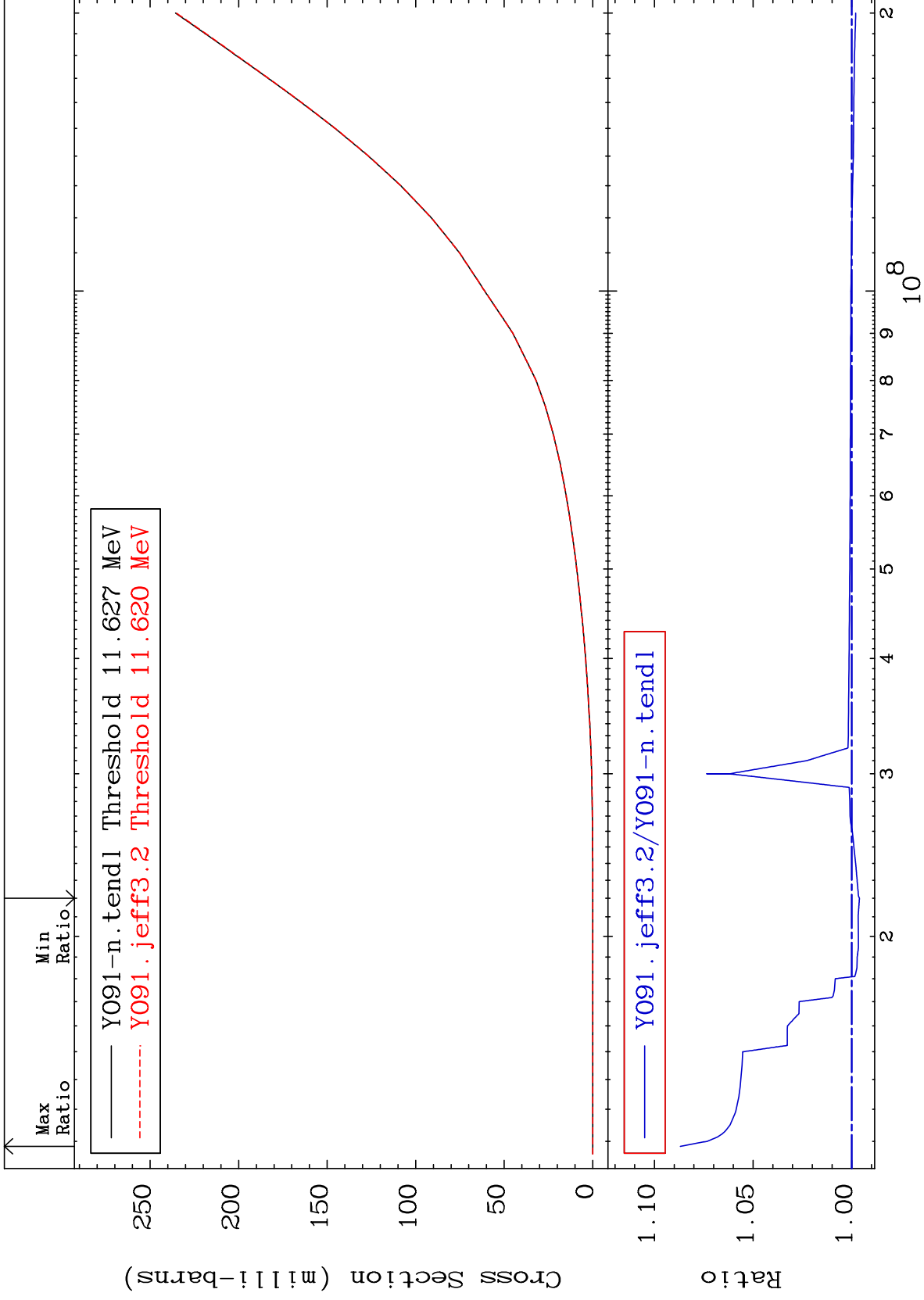


63

Incident Energy (eV)

39-Y -91

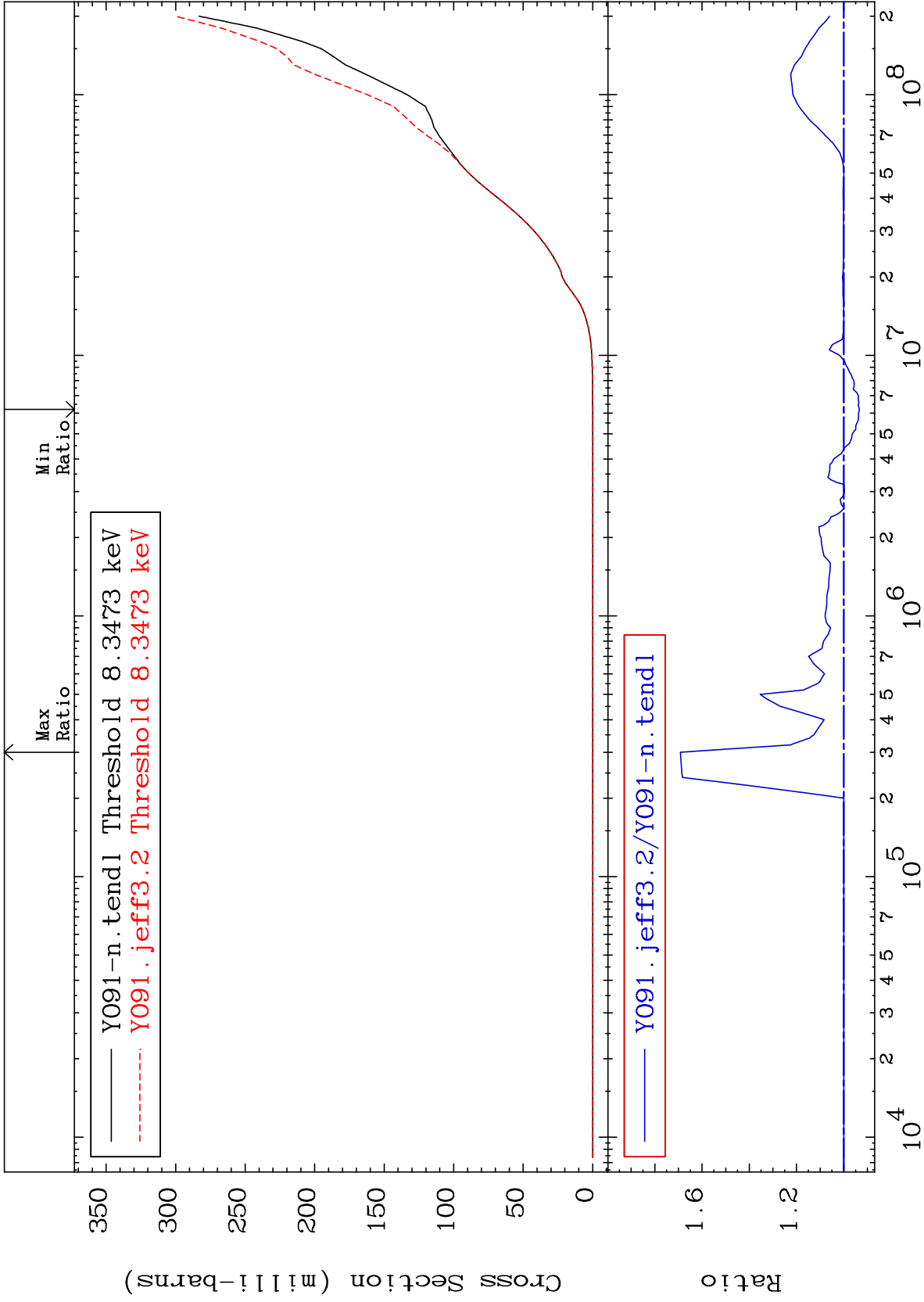




MAT 3931

He-4 Production
Cross Section

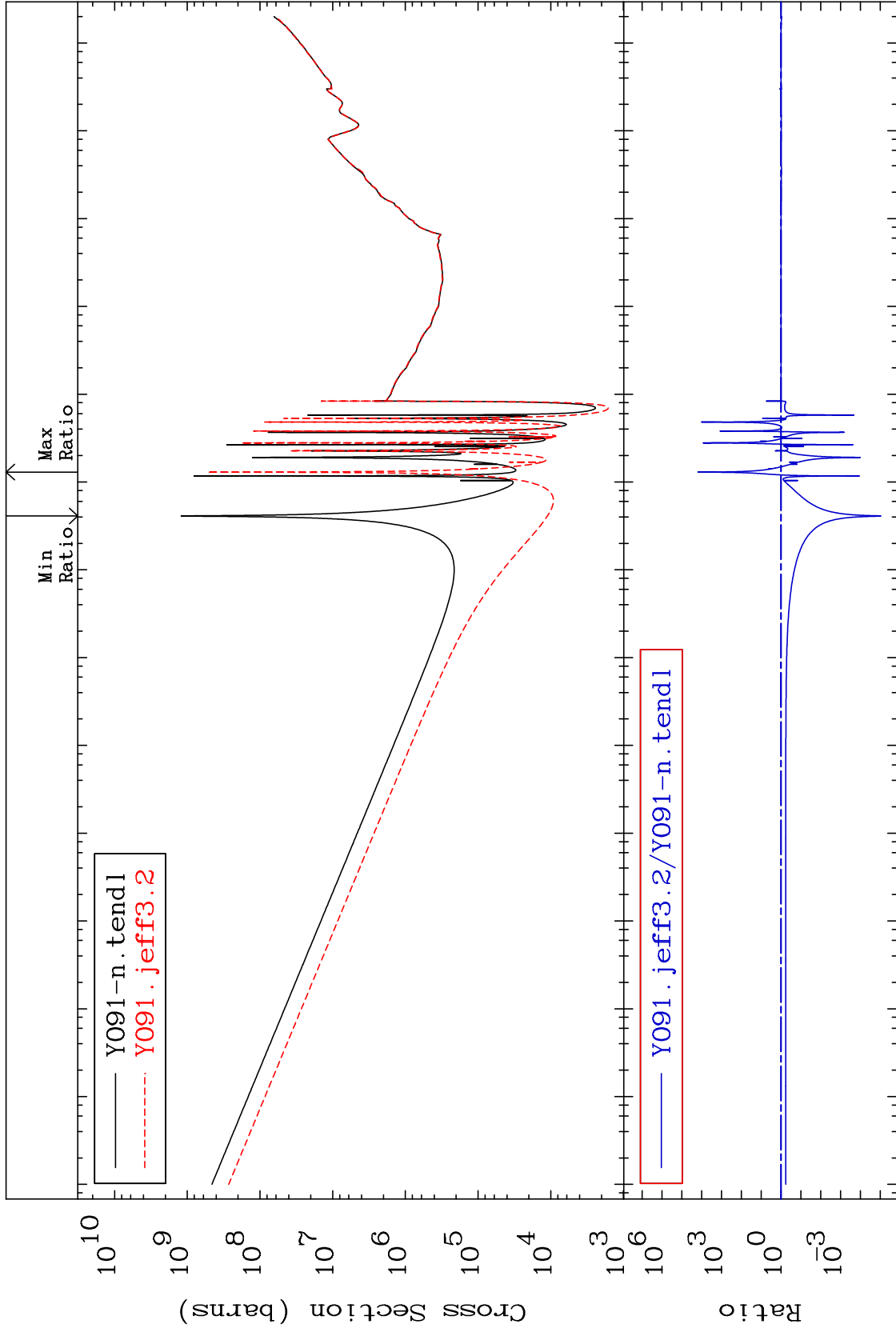
39-Y -91
-6.616 To 69.18 %

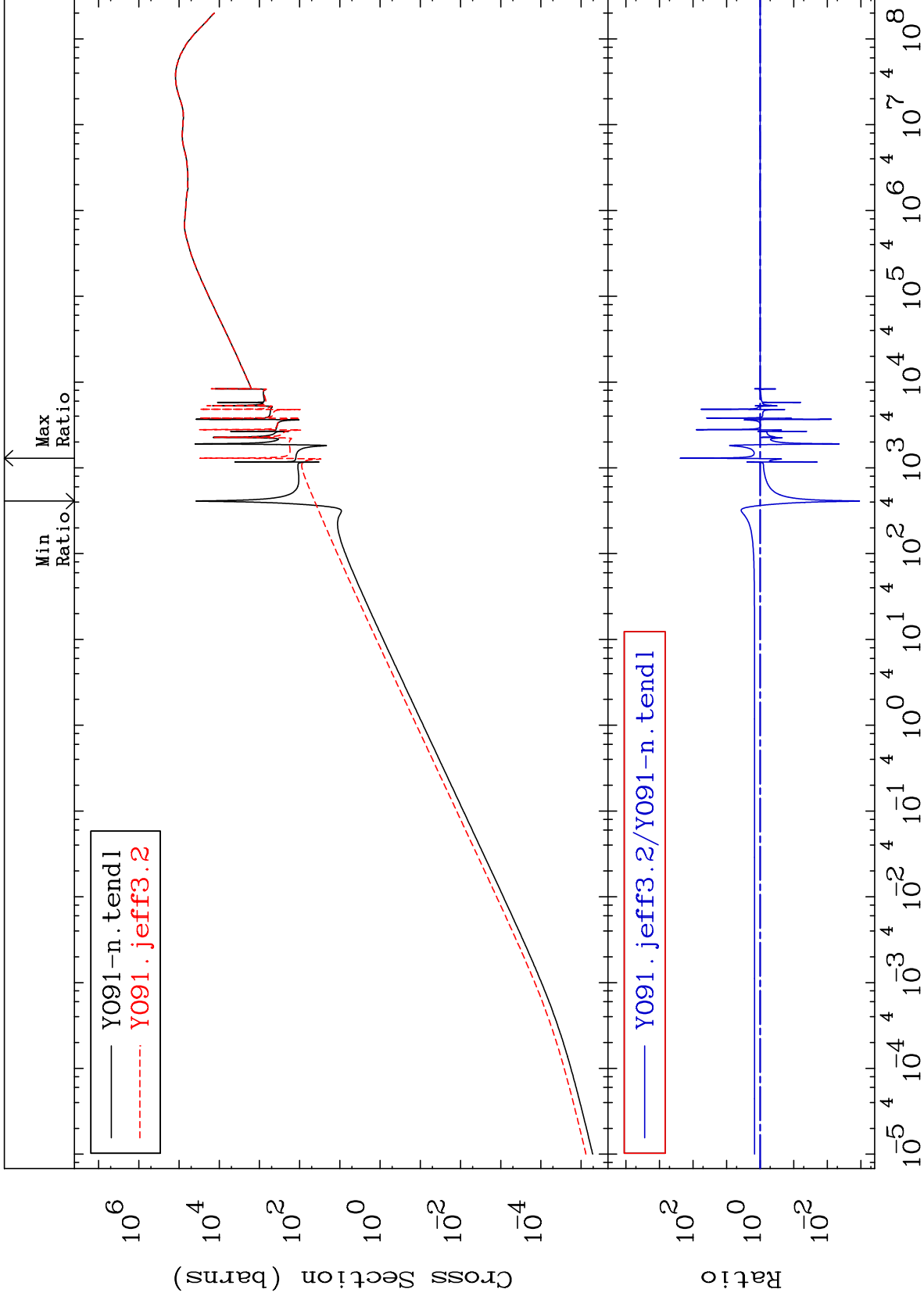


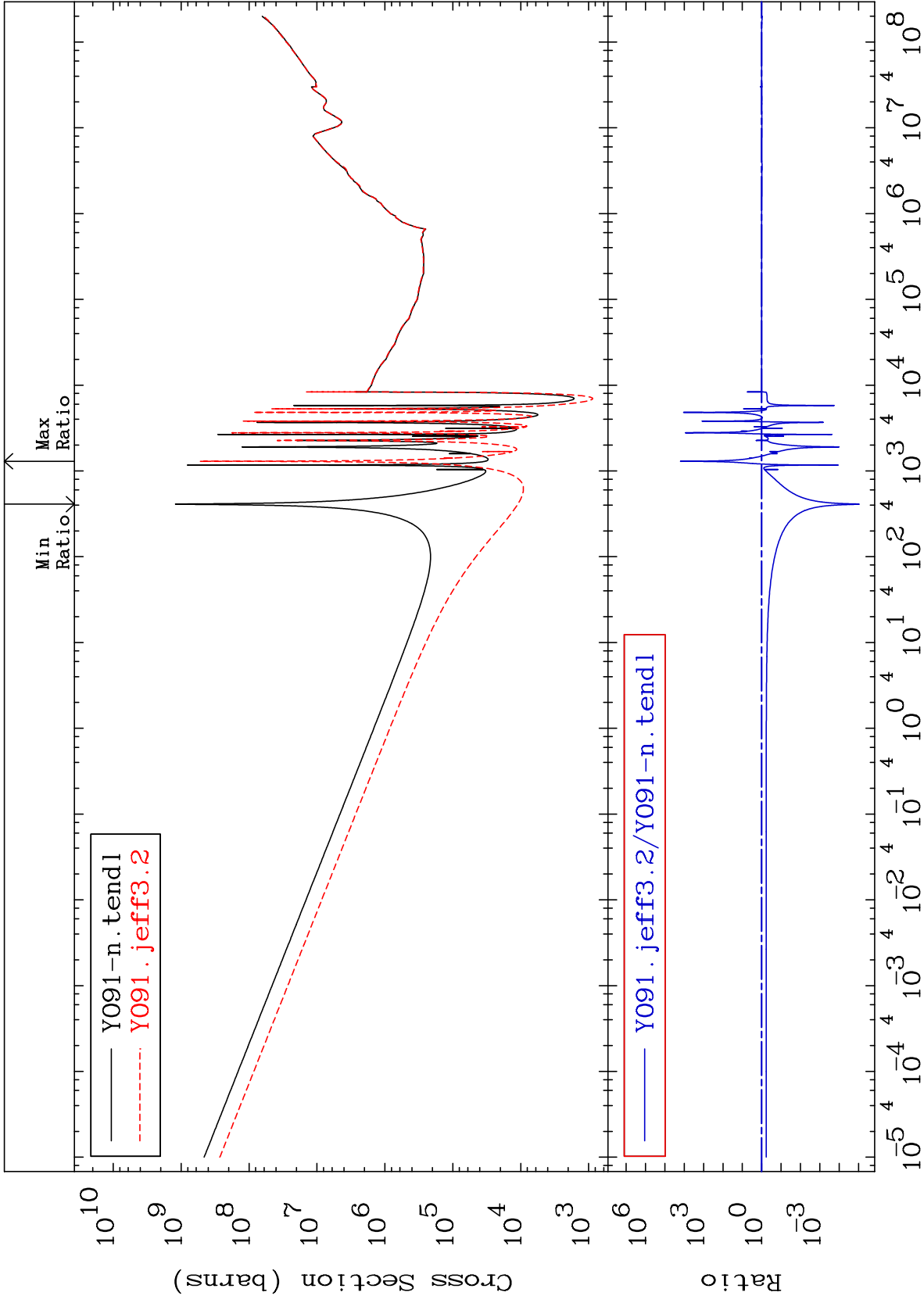
66

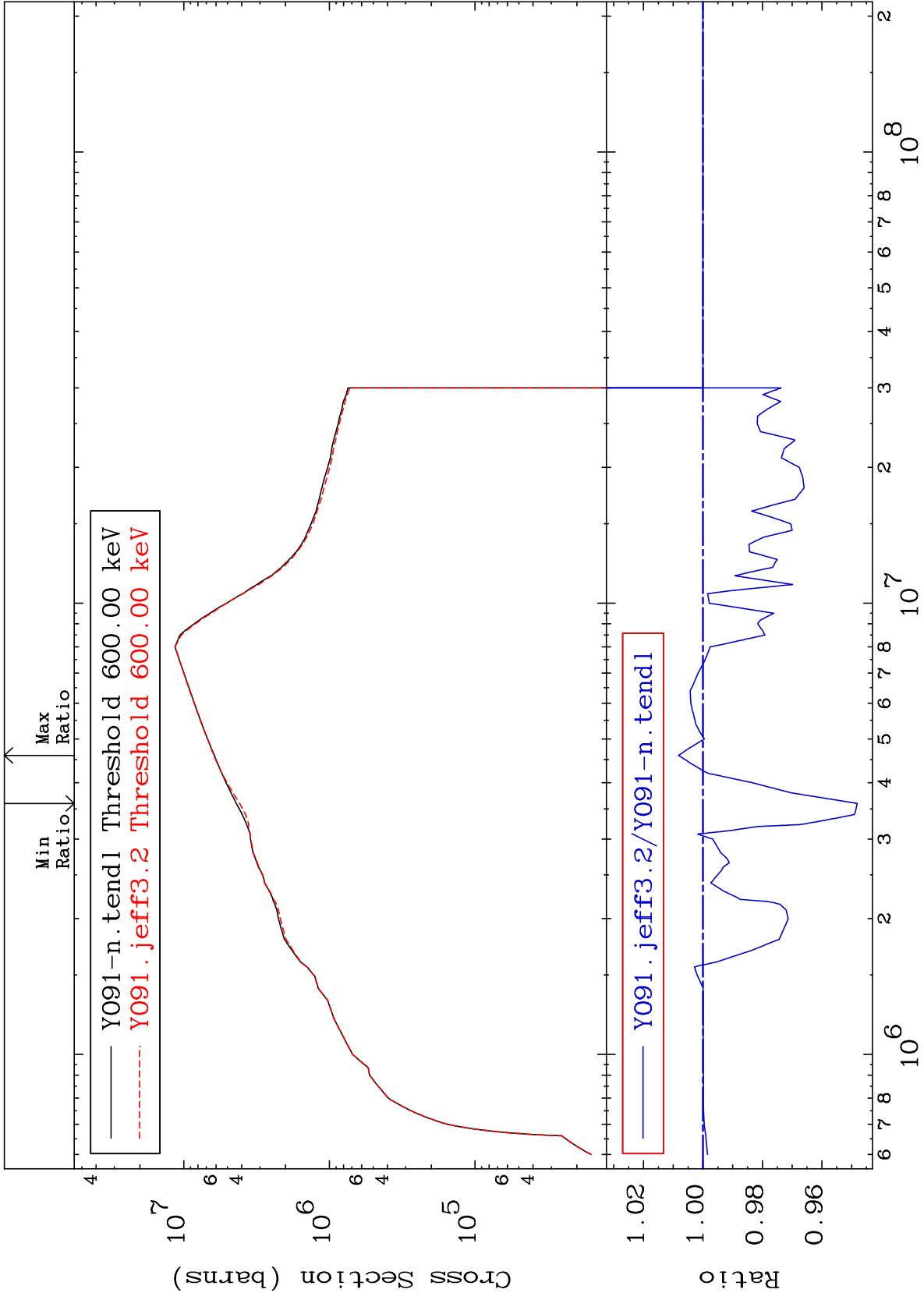
Incident Energy (eV)

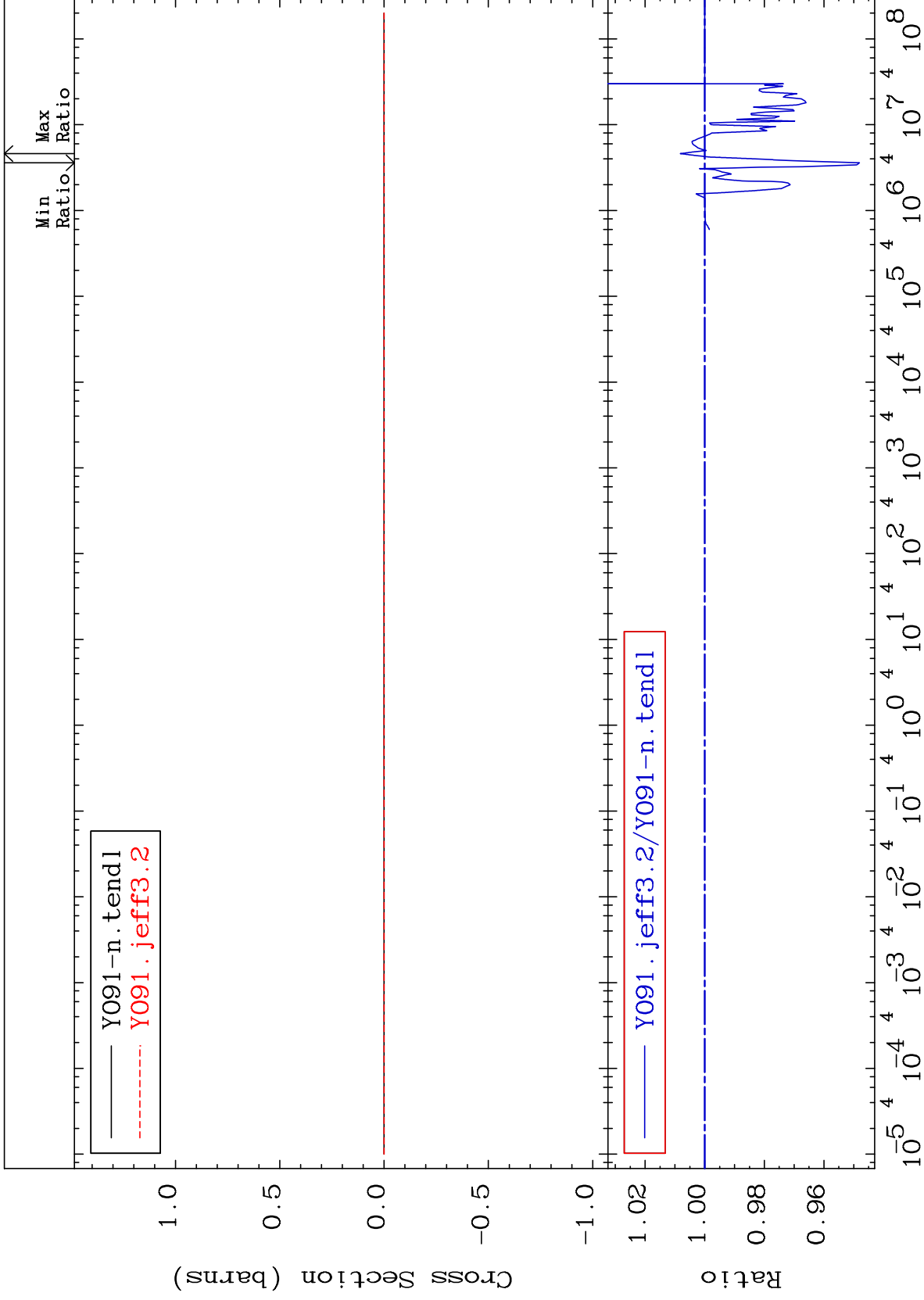
39-Y -91

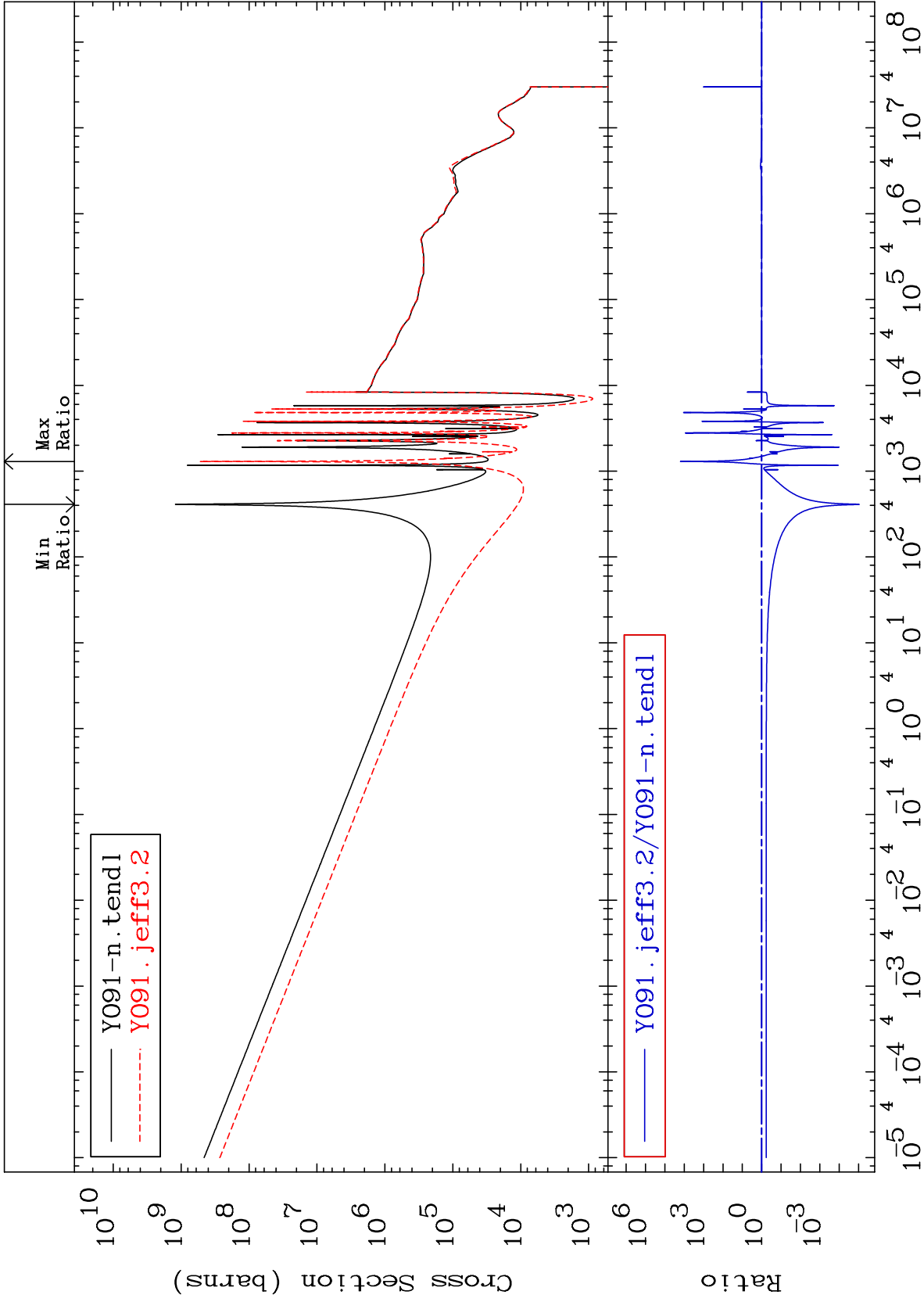


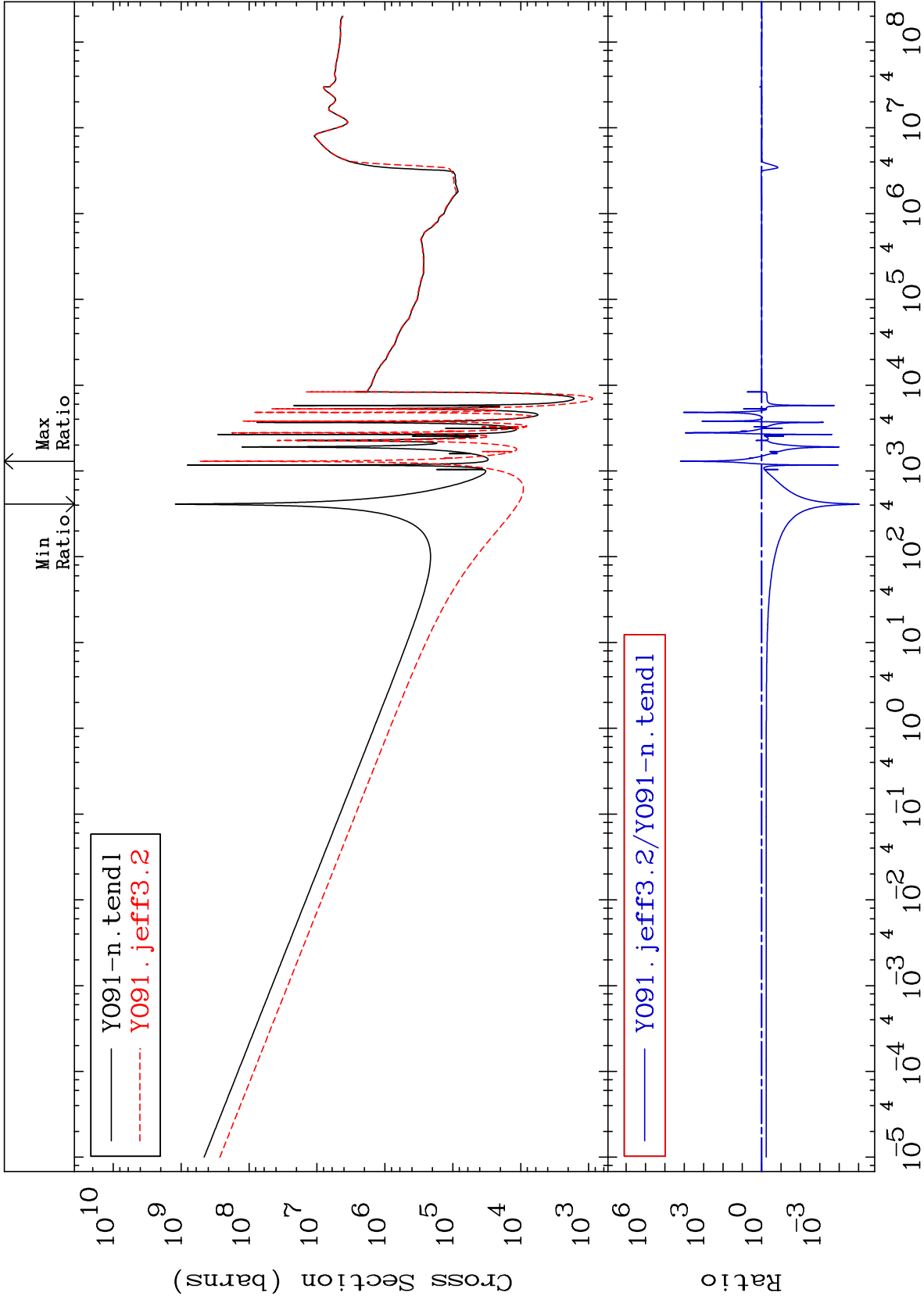


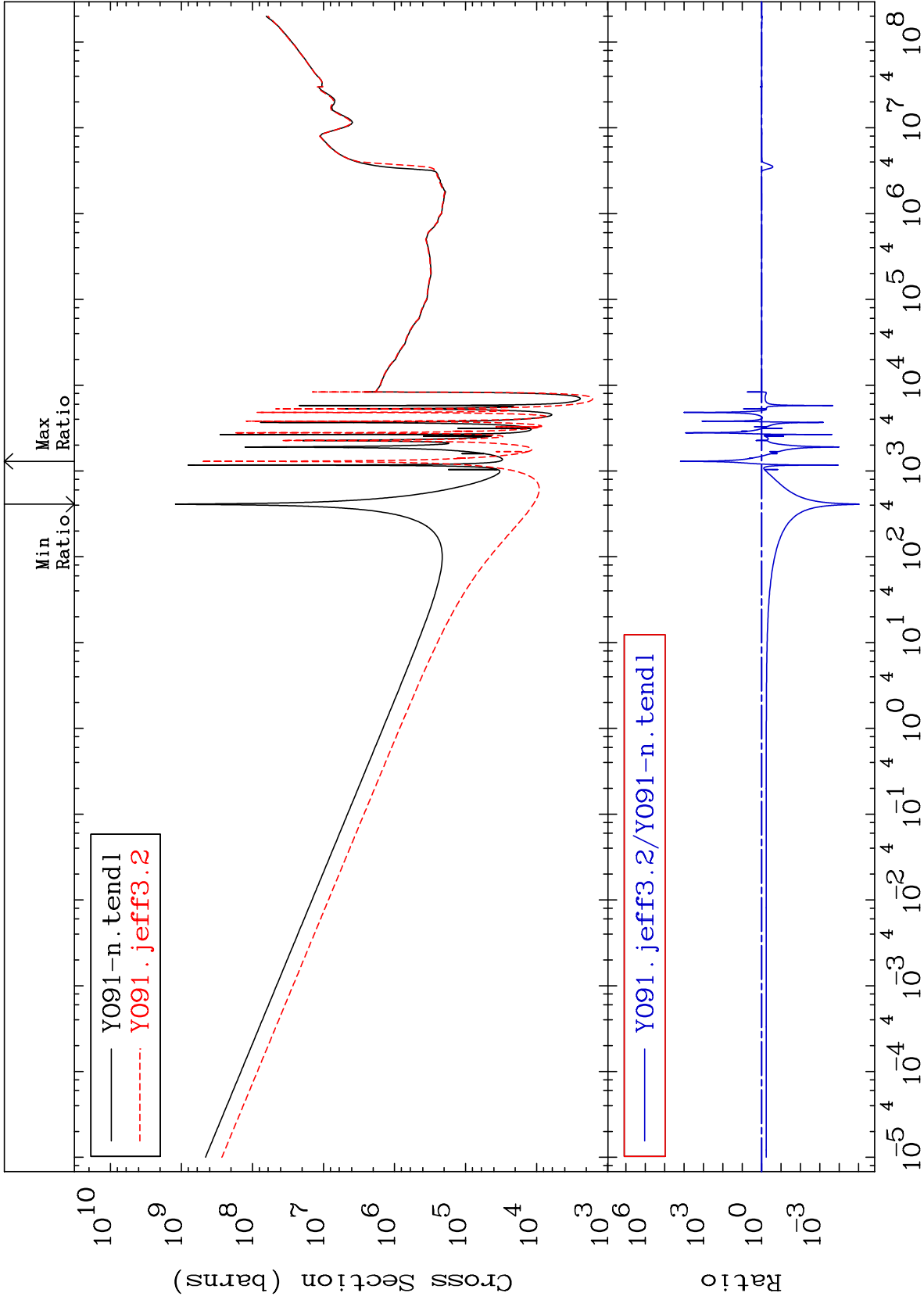


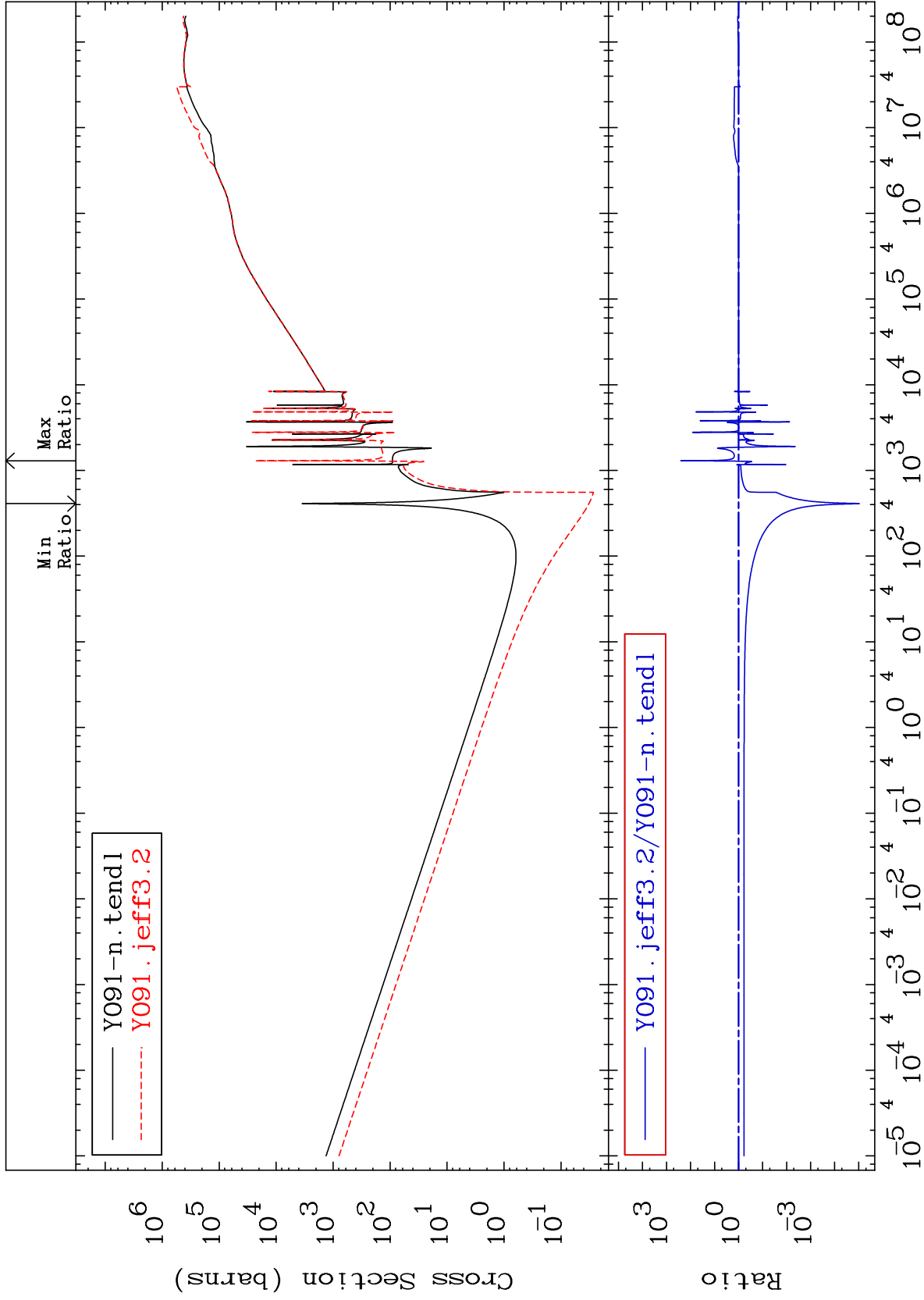


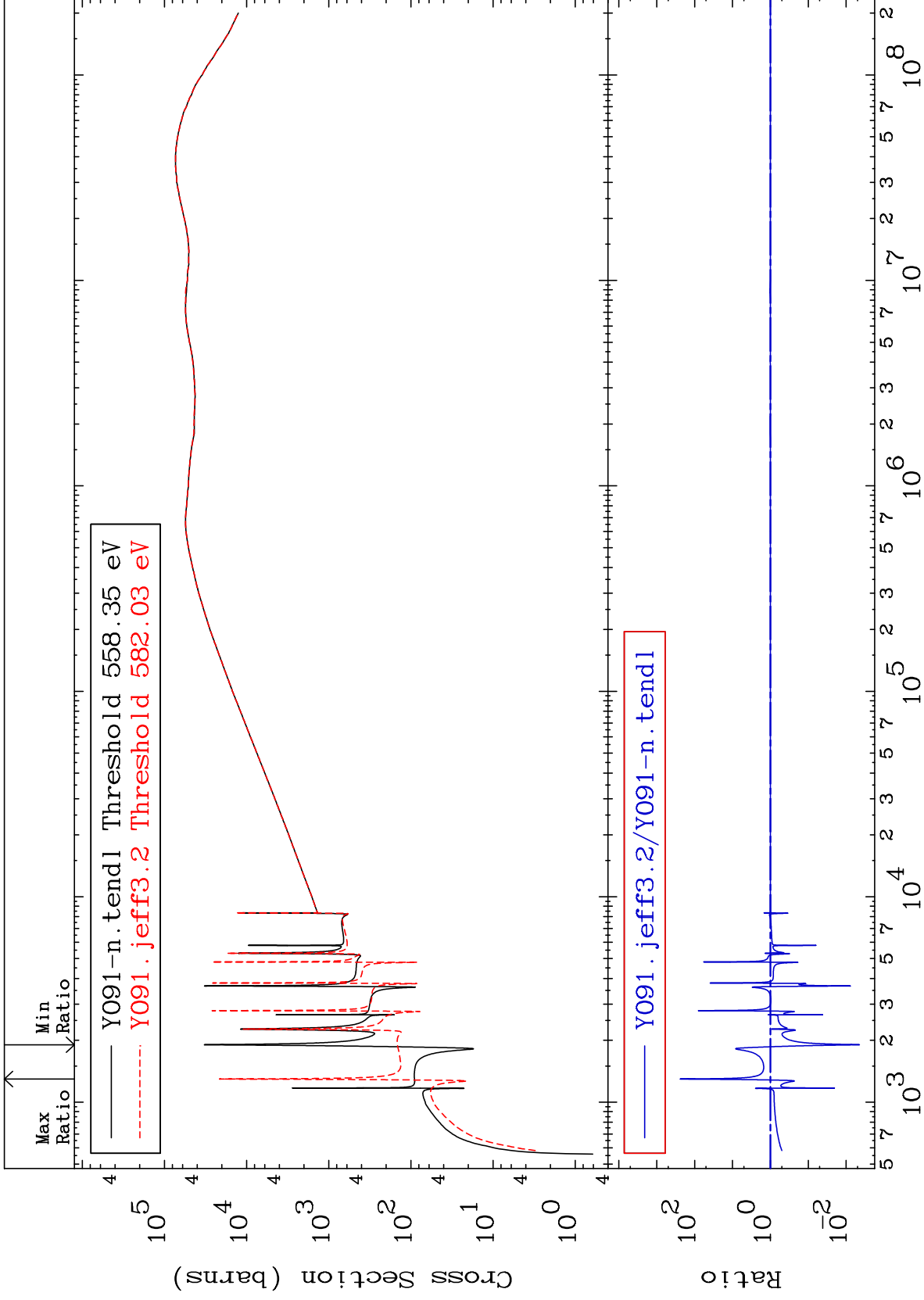


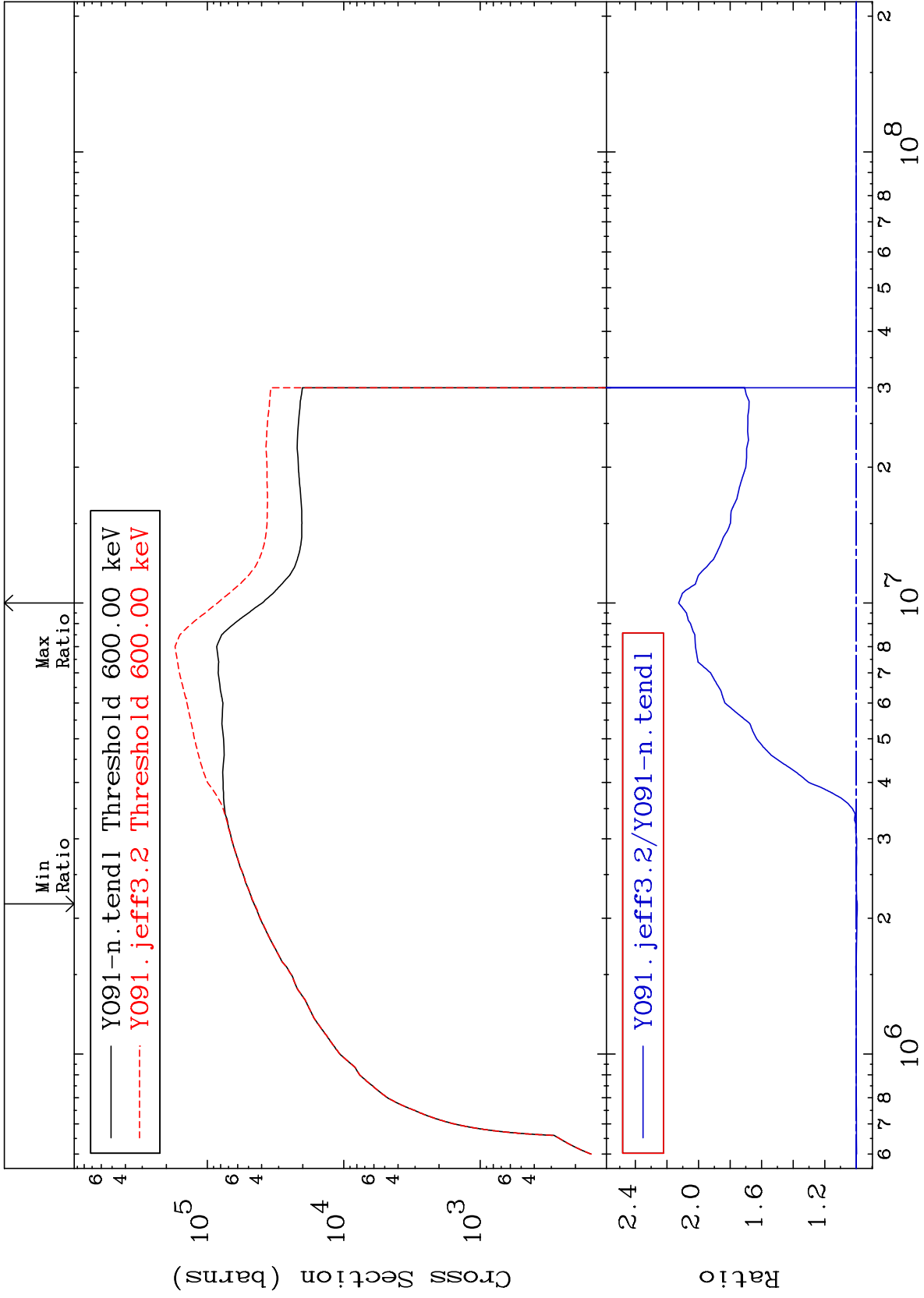


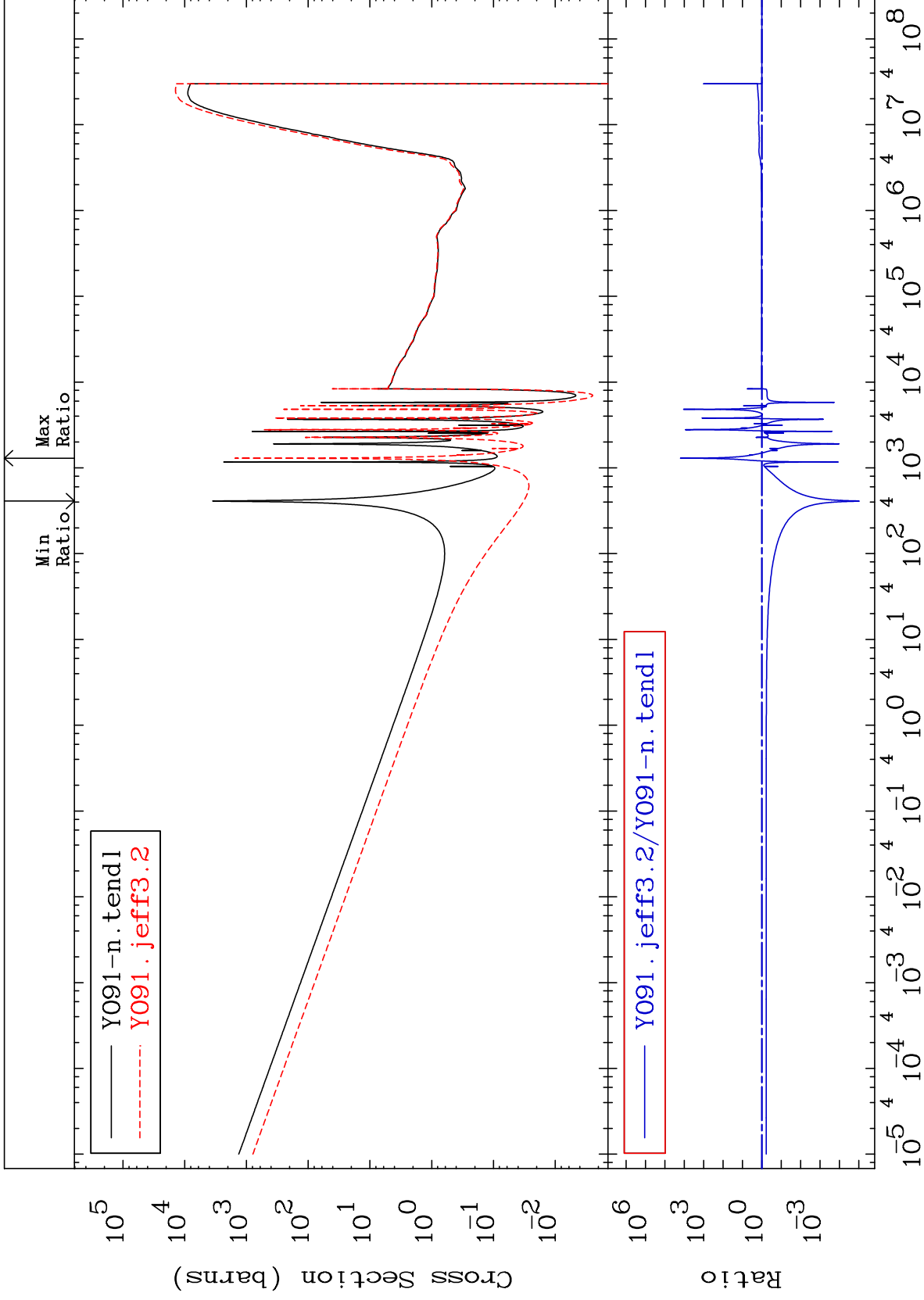










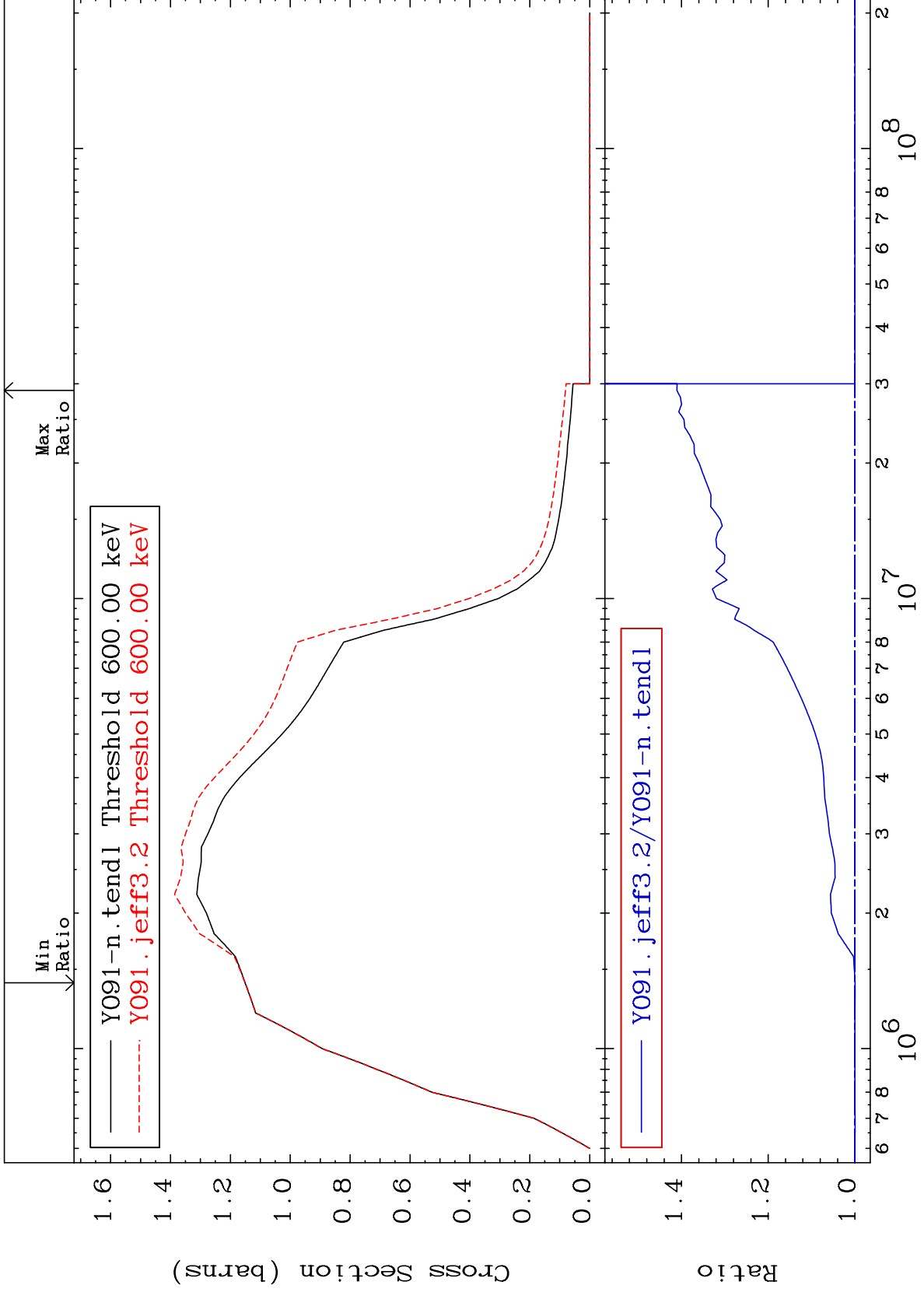


MAT 3931

Inelastic:39-Y -91g

39-Y -91

Radionuclide Production Cross Section -0.043 To 41.05 %



79

Incident Energy (eV)

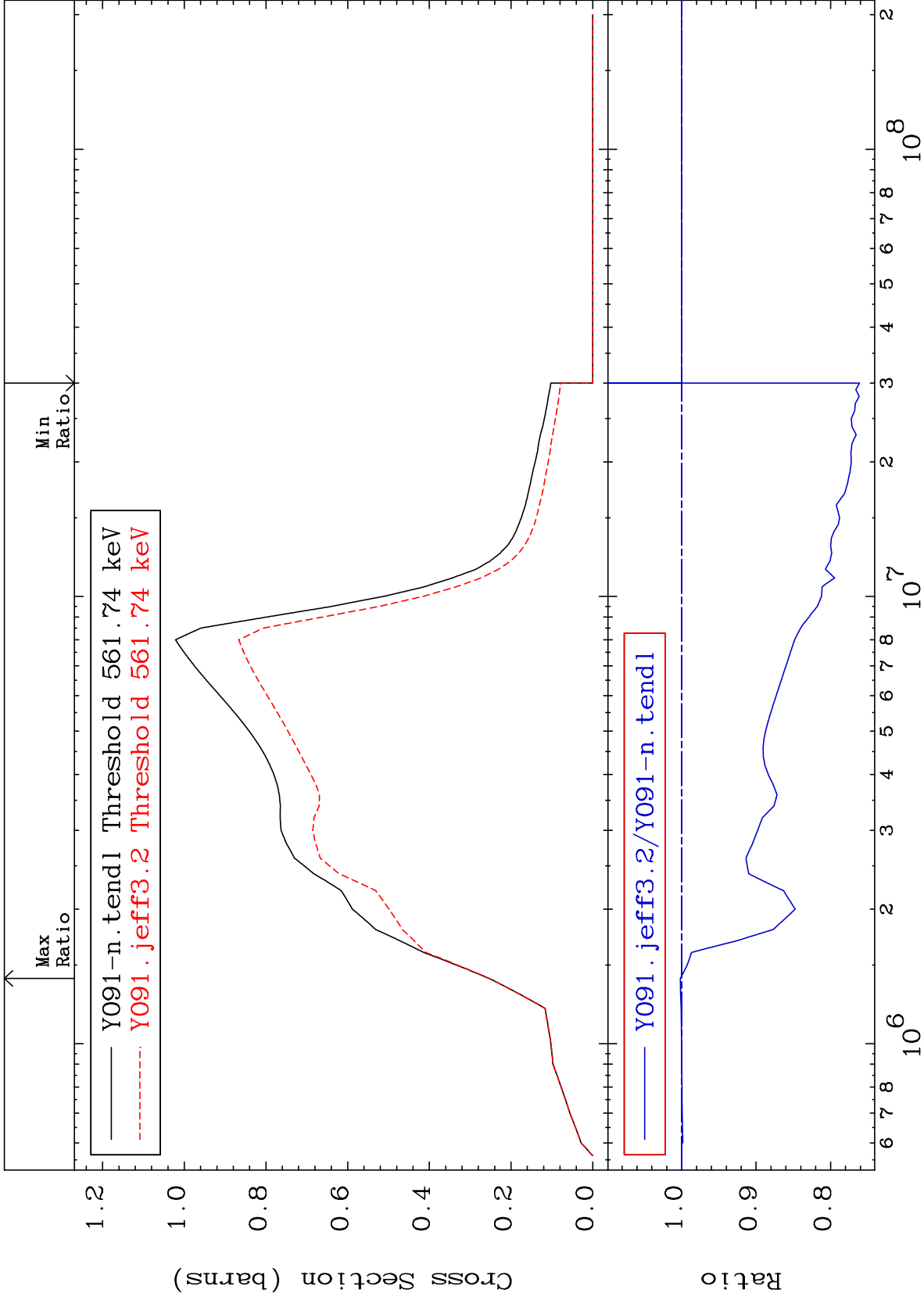
39-Y -91

MAT 3931

Inelastic:39-Y -91m1

39-Y -91

Radionuclide Production Cross Section -23.87 To 0.171 %



80

Incident Energy (eV)

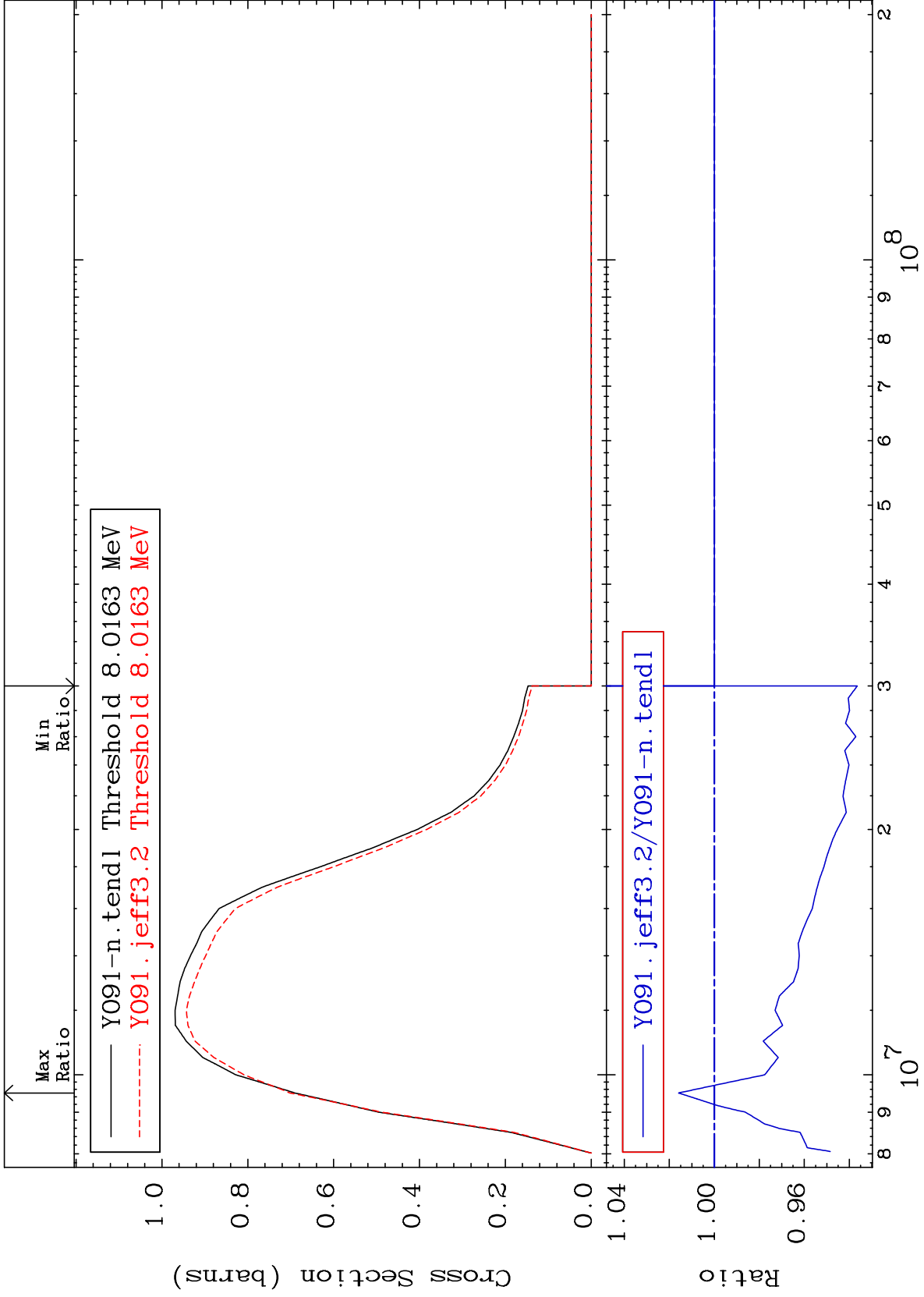
39-Y -91

MAT 3931

(n,2n):39-Y -90g

39-Y -91

Radionuclide Production Cross Section -6.354 To 1.586 %



81

Incident Energy (eV)

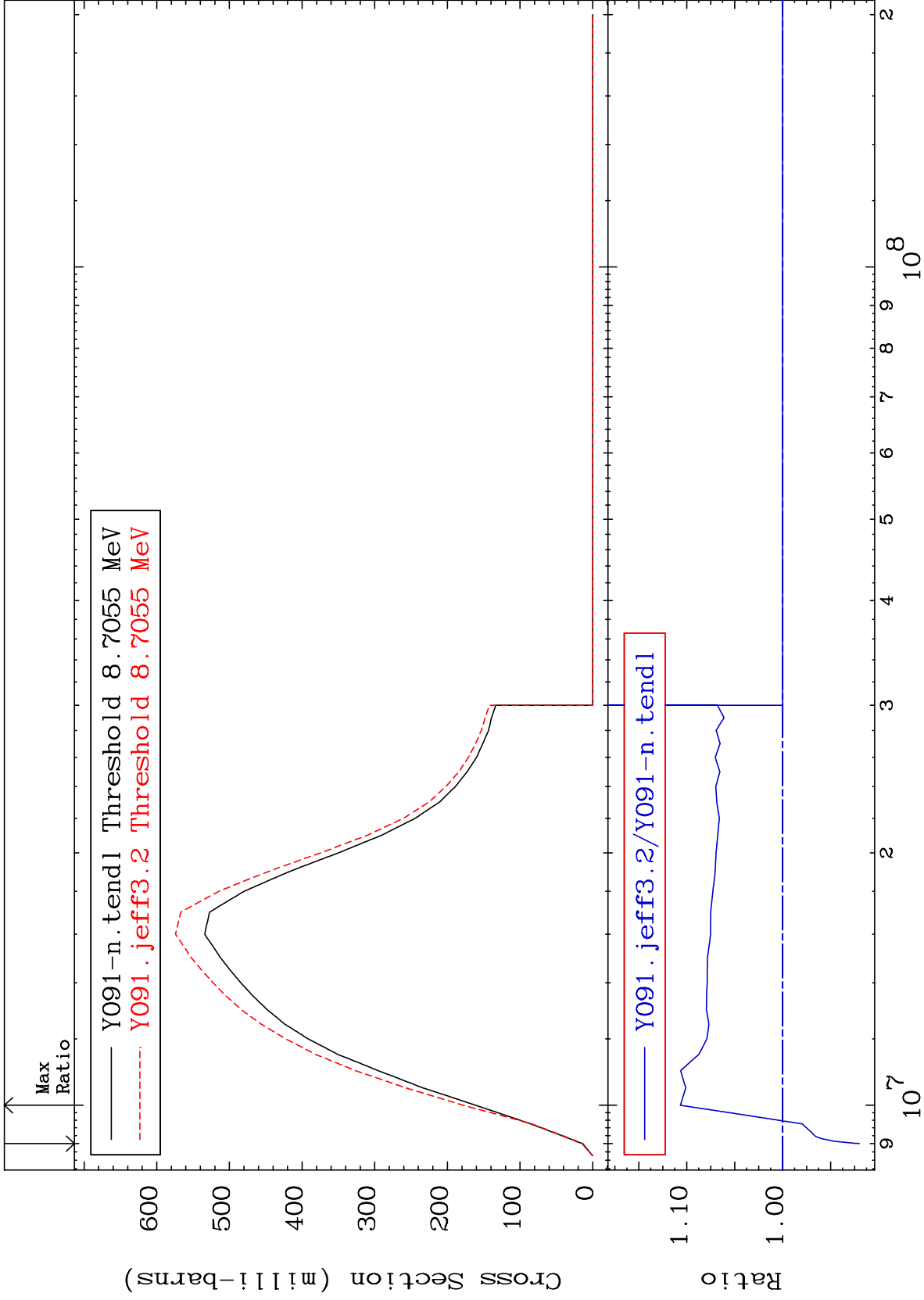
39-Y -91

MAT 3931

(n,2n):39-Y -90m2

39-Y -91

Radionuclide Production Cross Section -8.011 To 10.67 %

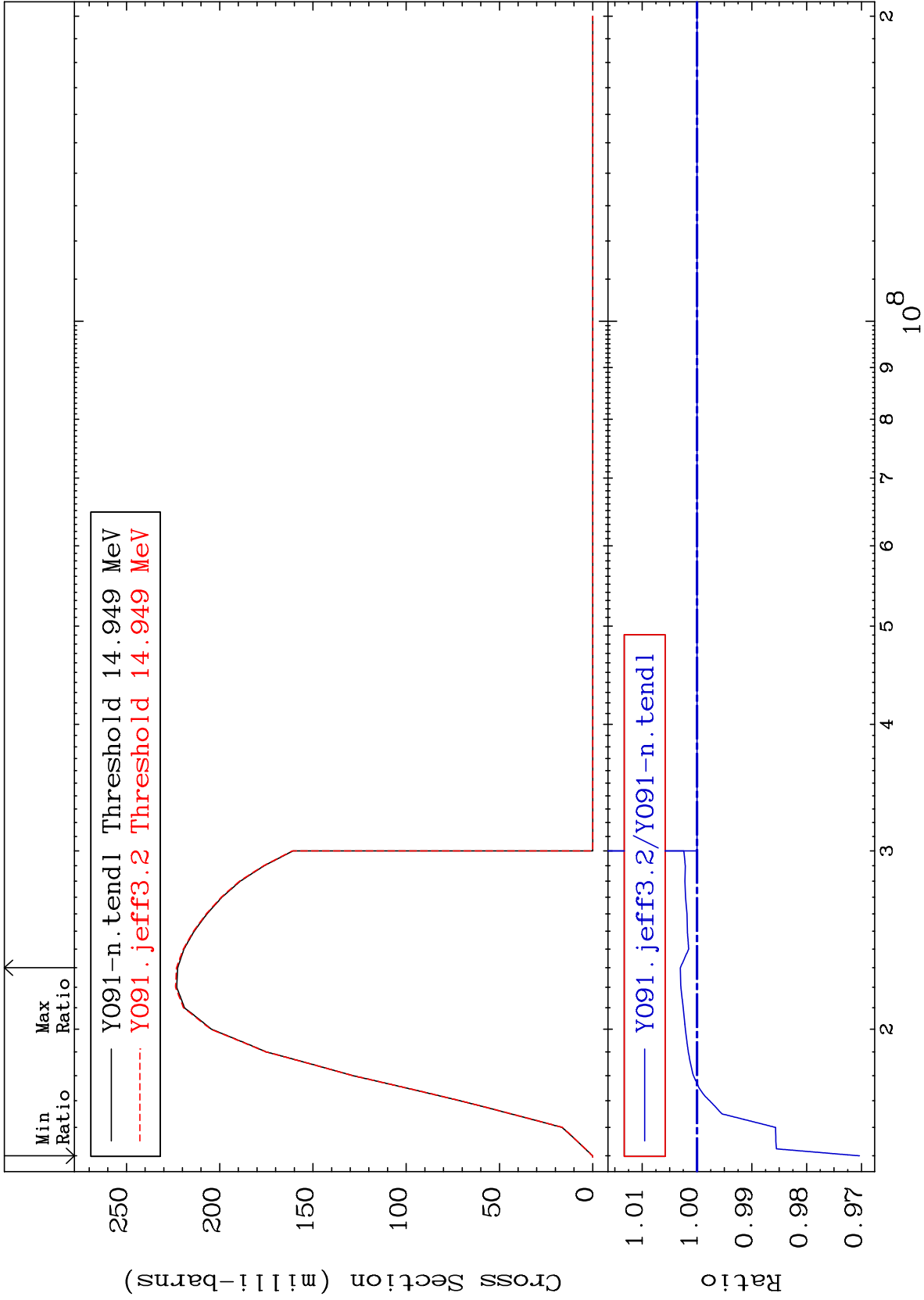


82

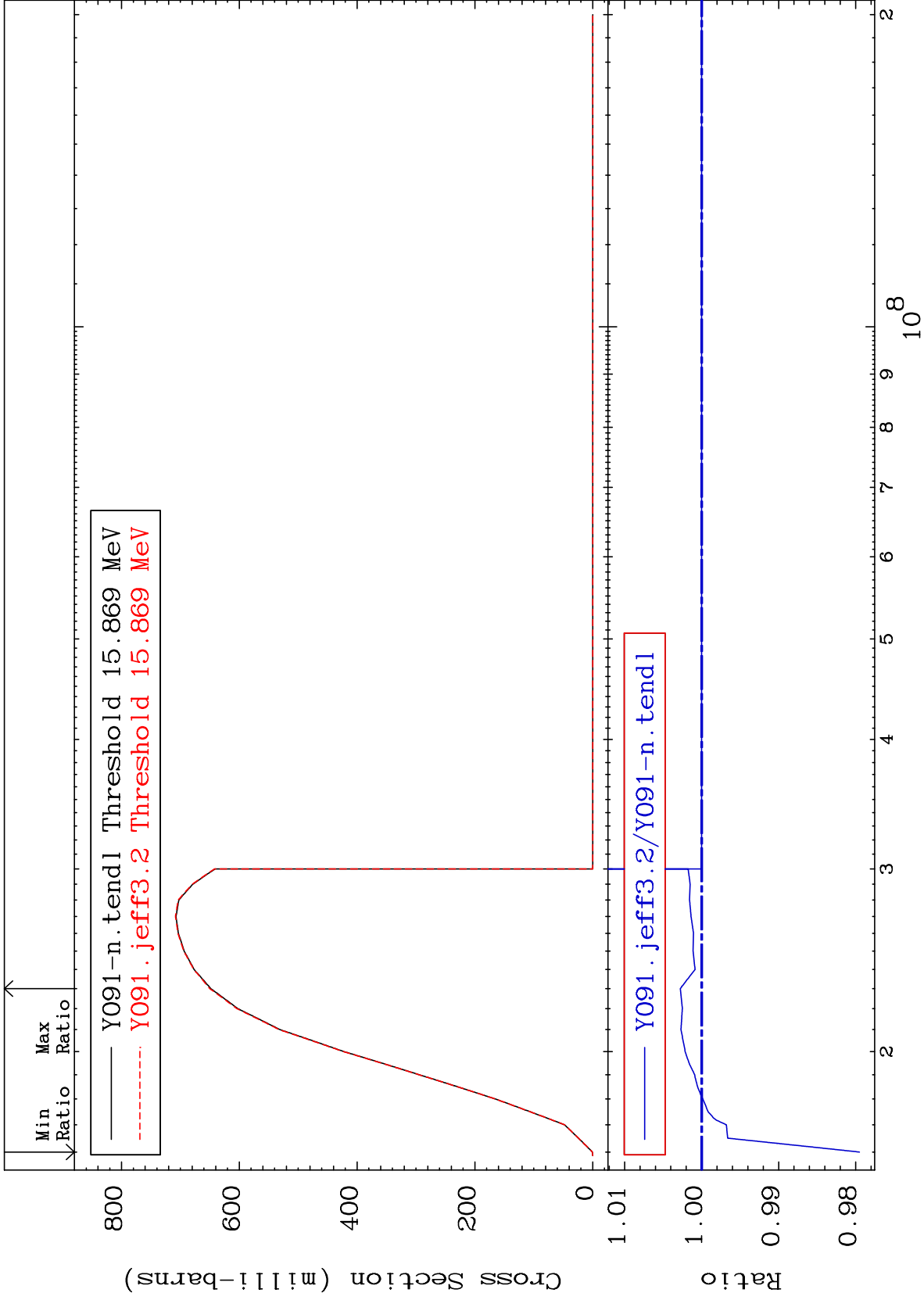
Incident Energy (eV)

39-Y -91

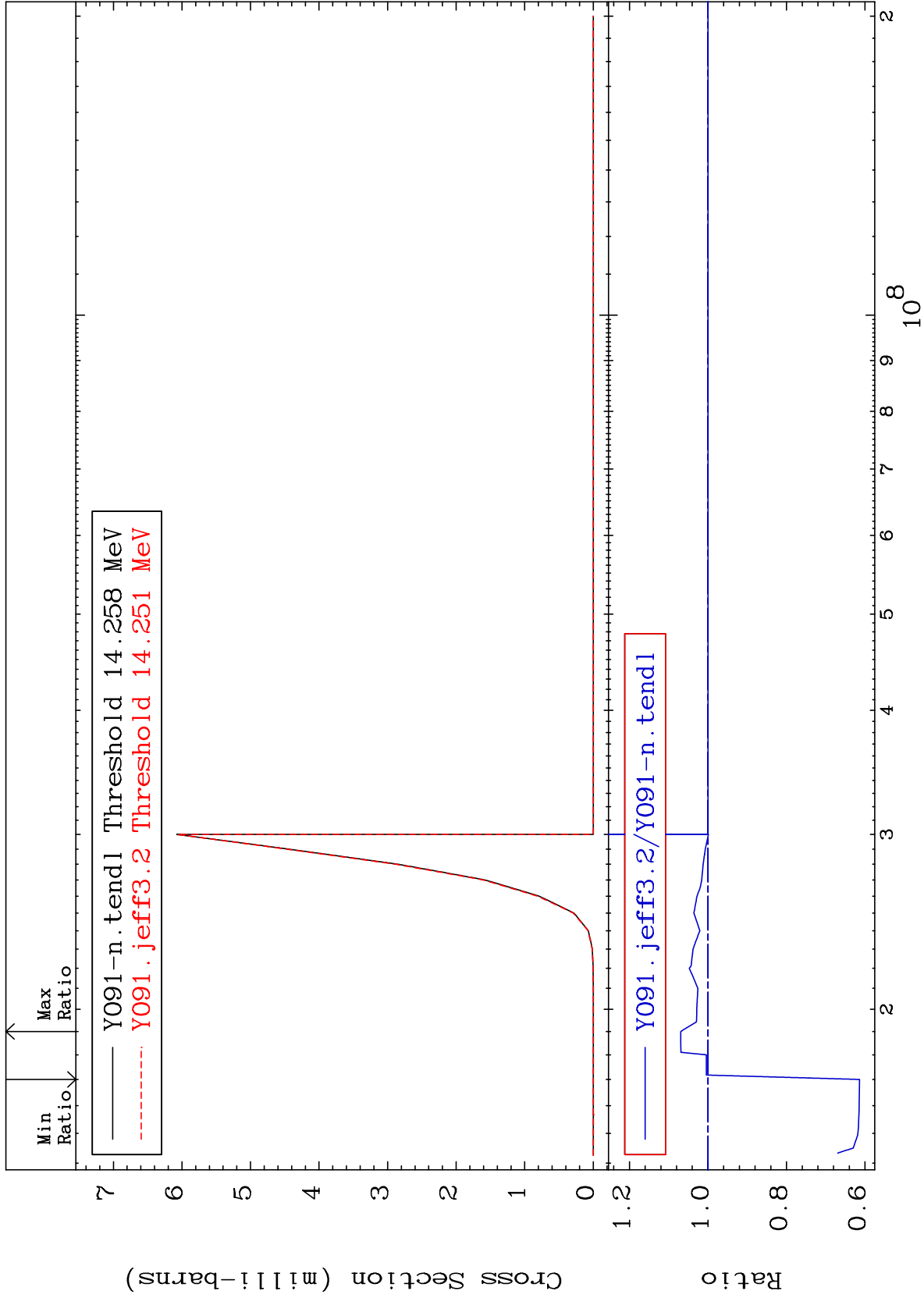
Radionuclide Production Cross Section -2.964 To 0.304 %



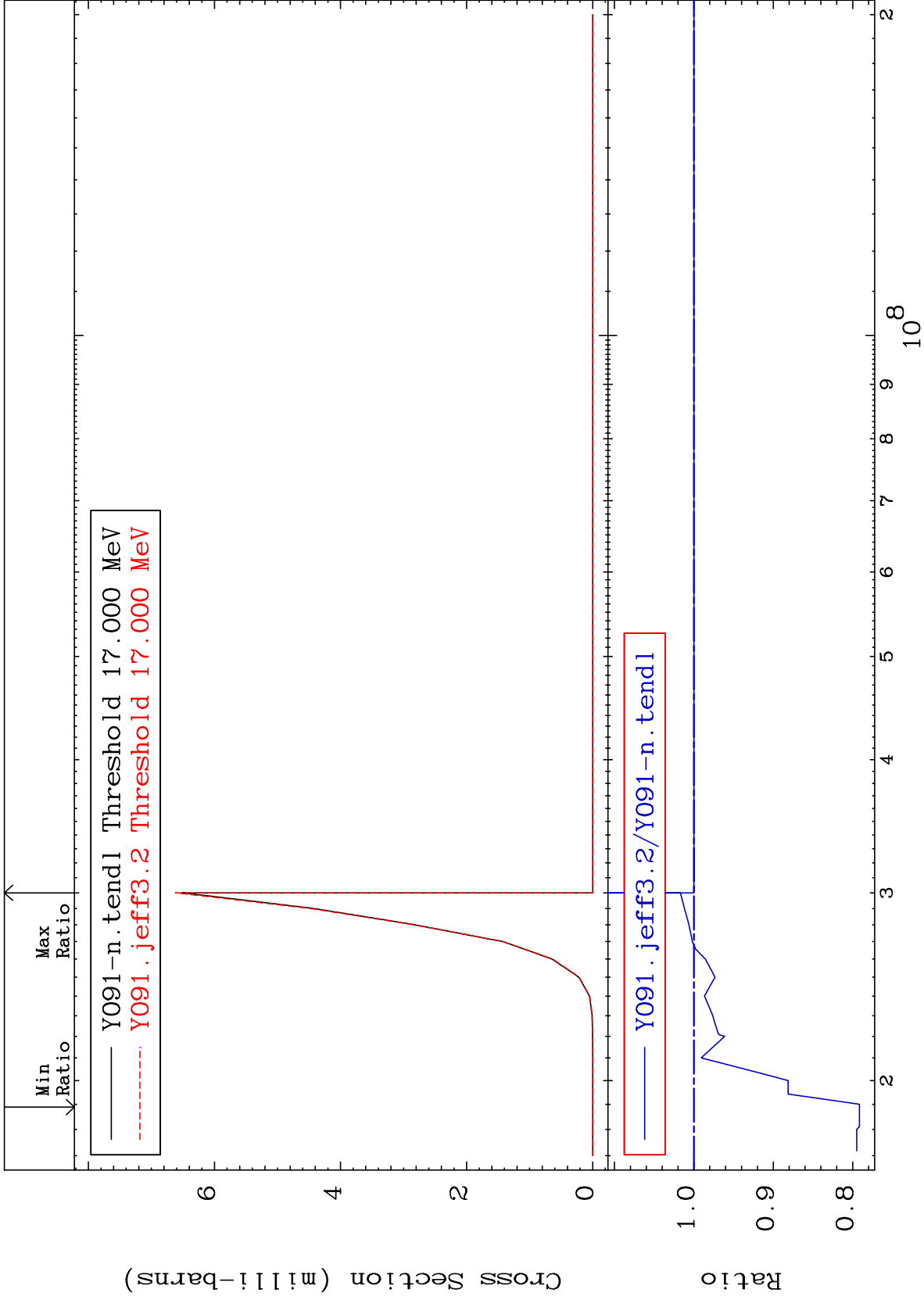
Radionuclide Production Cross Section -2.049 To 0.276 %

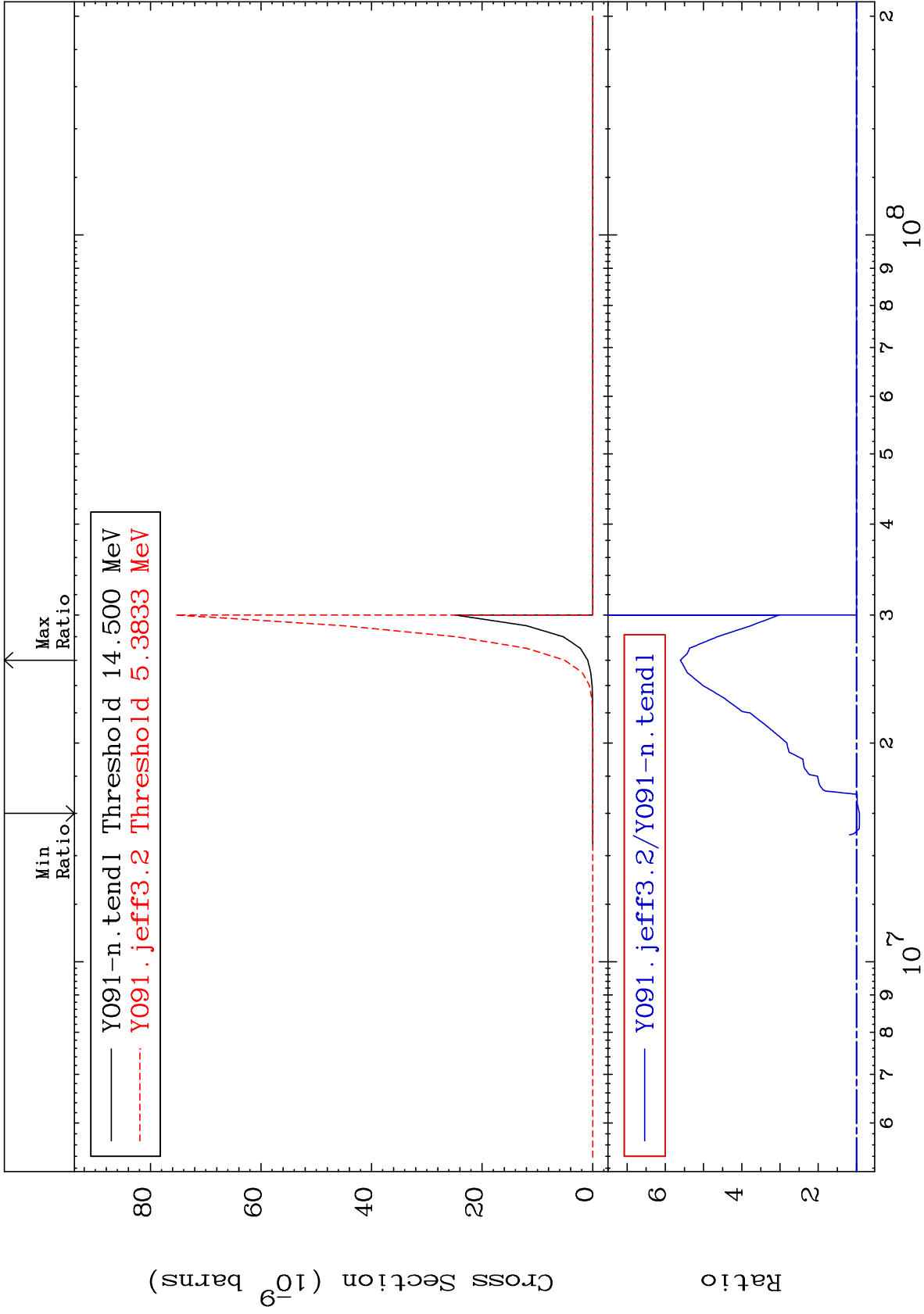


Radionuclide Production Cross Section -38.60 To 6.928 %

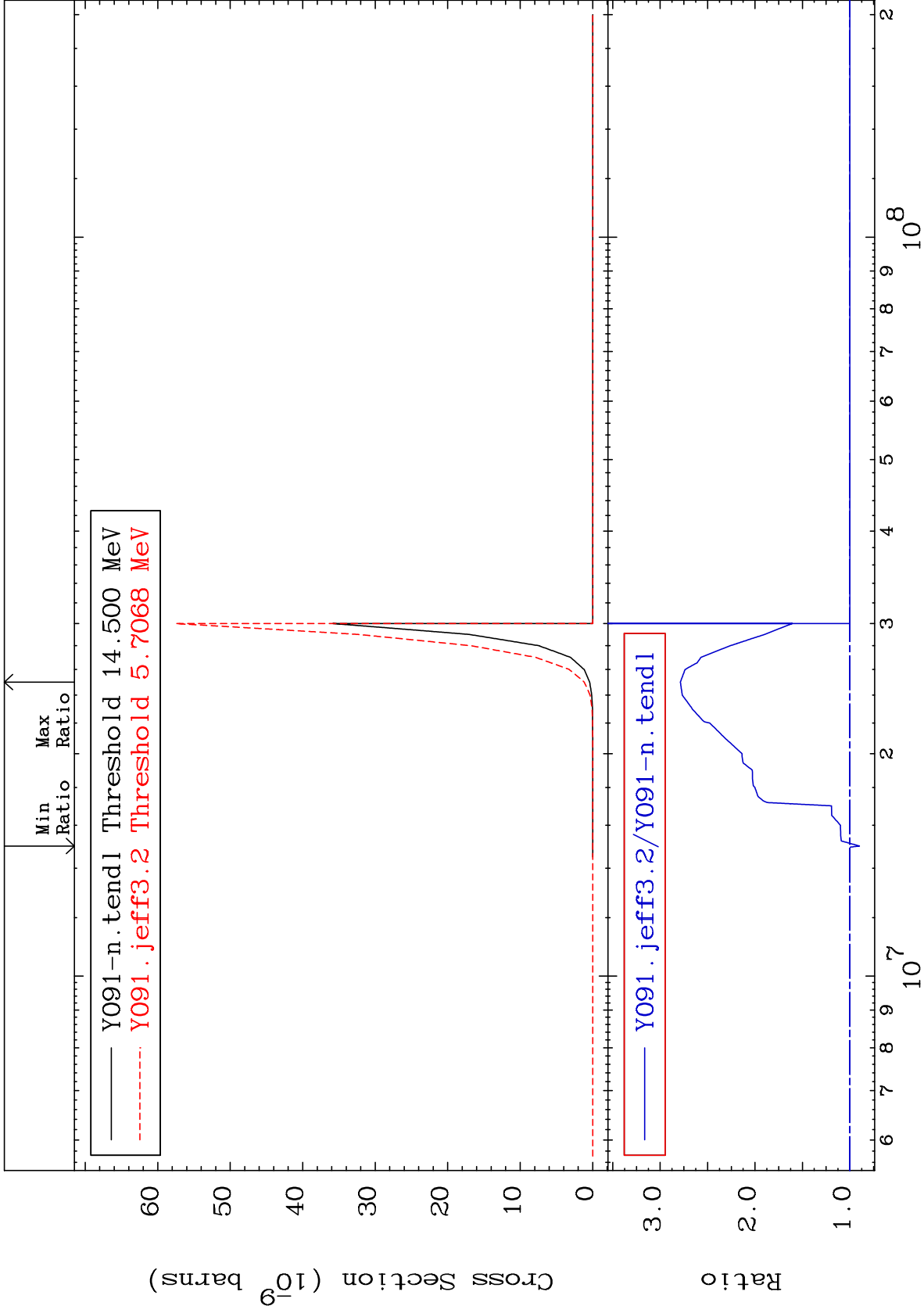


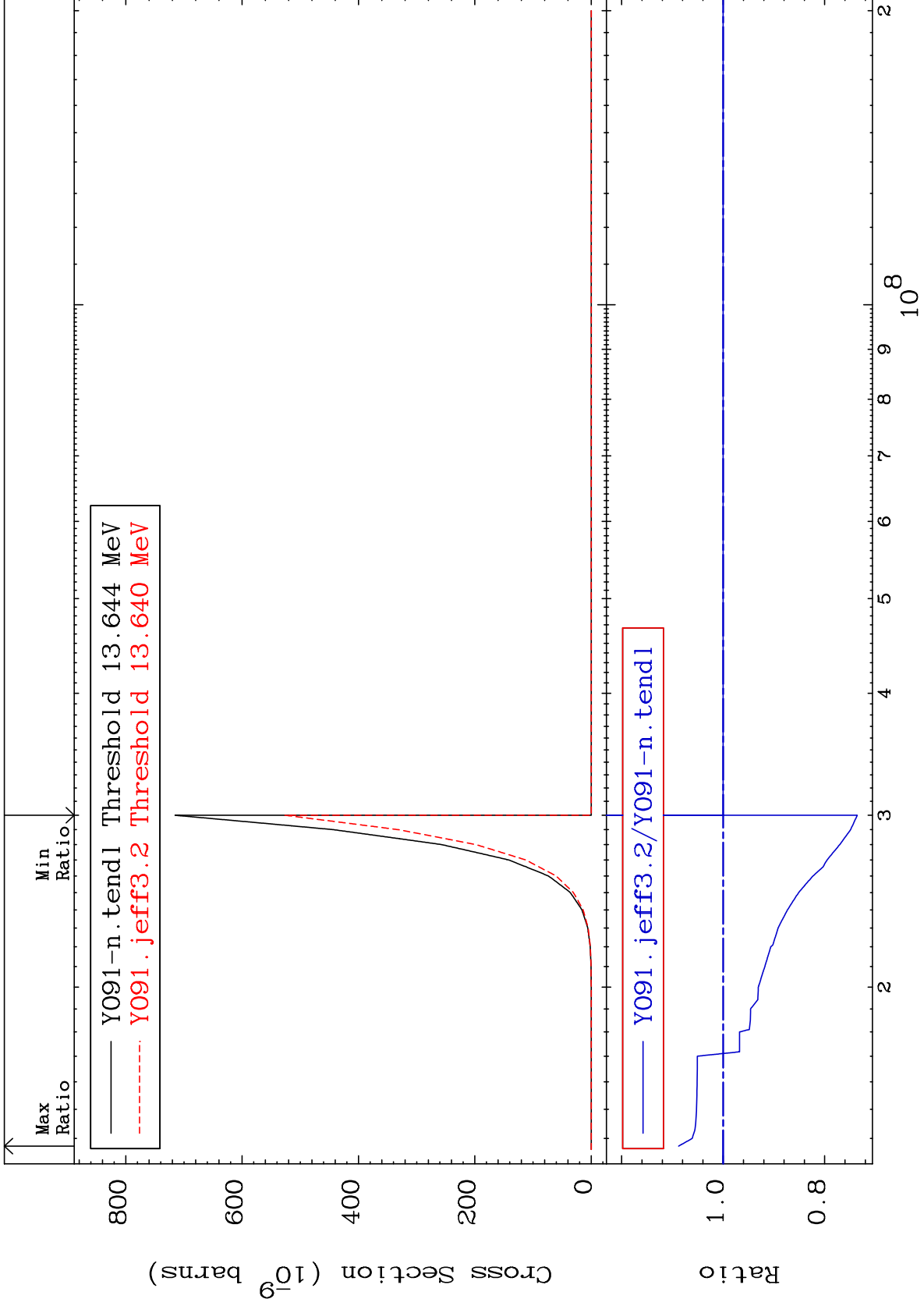
Radionuclide Production Cross Section -20.85 To 1.705 %





Radionuclide Production Cross Section -10.14 To 178.7 %





Radionuclide Production Cross Section -3.345 To 7.092 %

