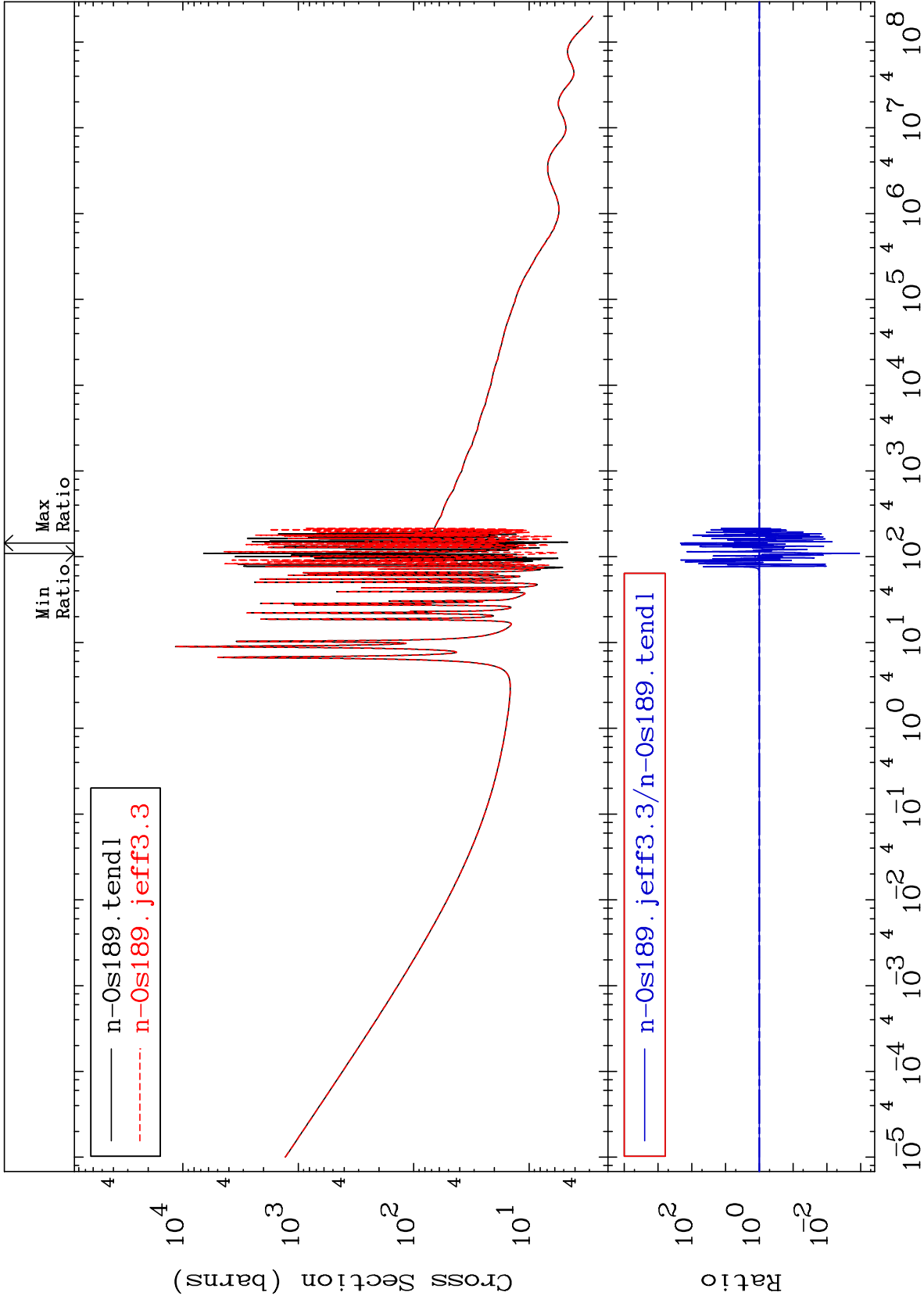


MAT 7640

Total Cross Section
76-0s-189
-99.89 To 9999. %



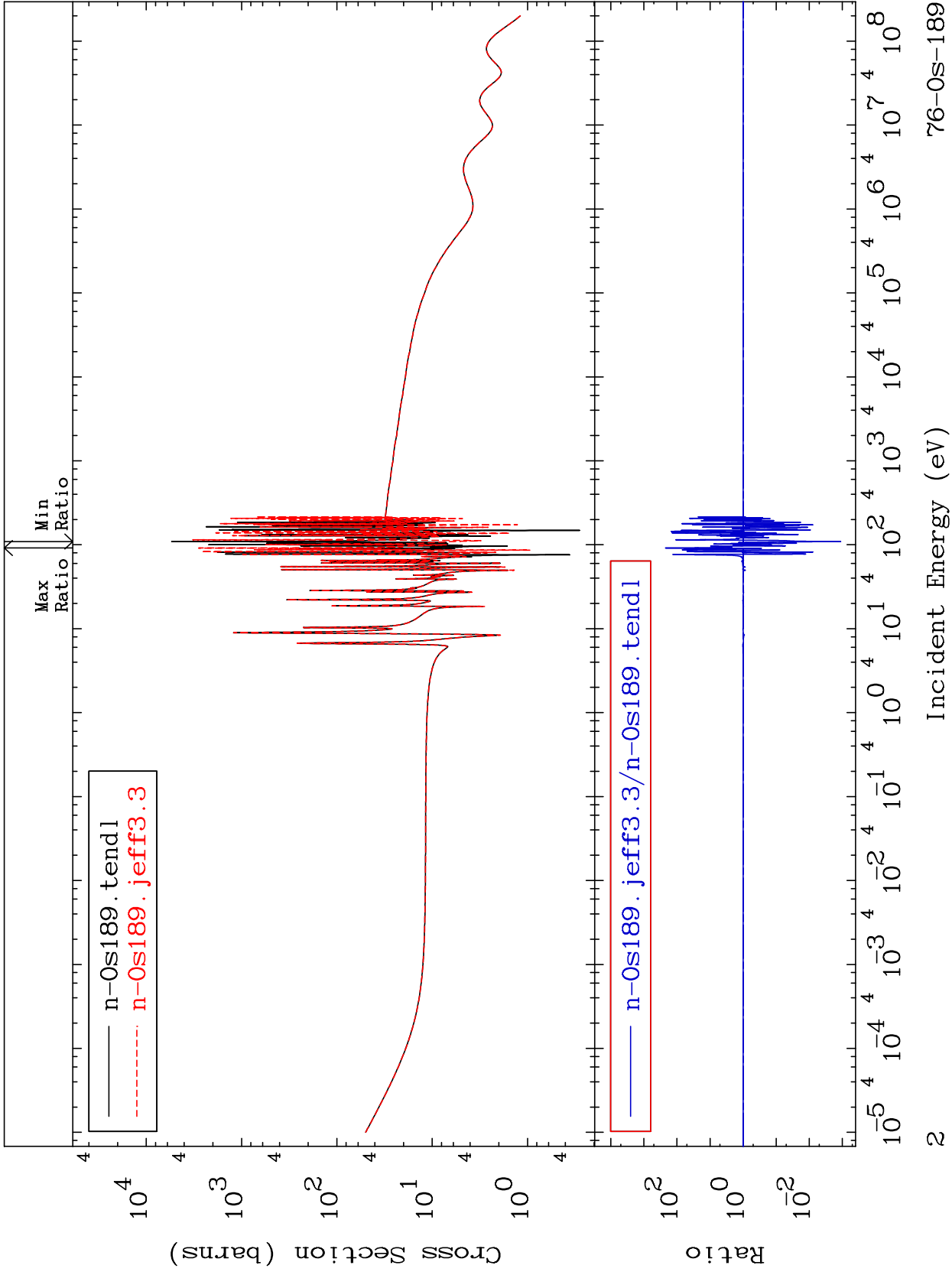
Incident Energy (eV)

76-0s-189

MAT 7640

Elastic
Cross Section

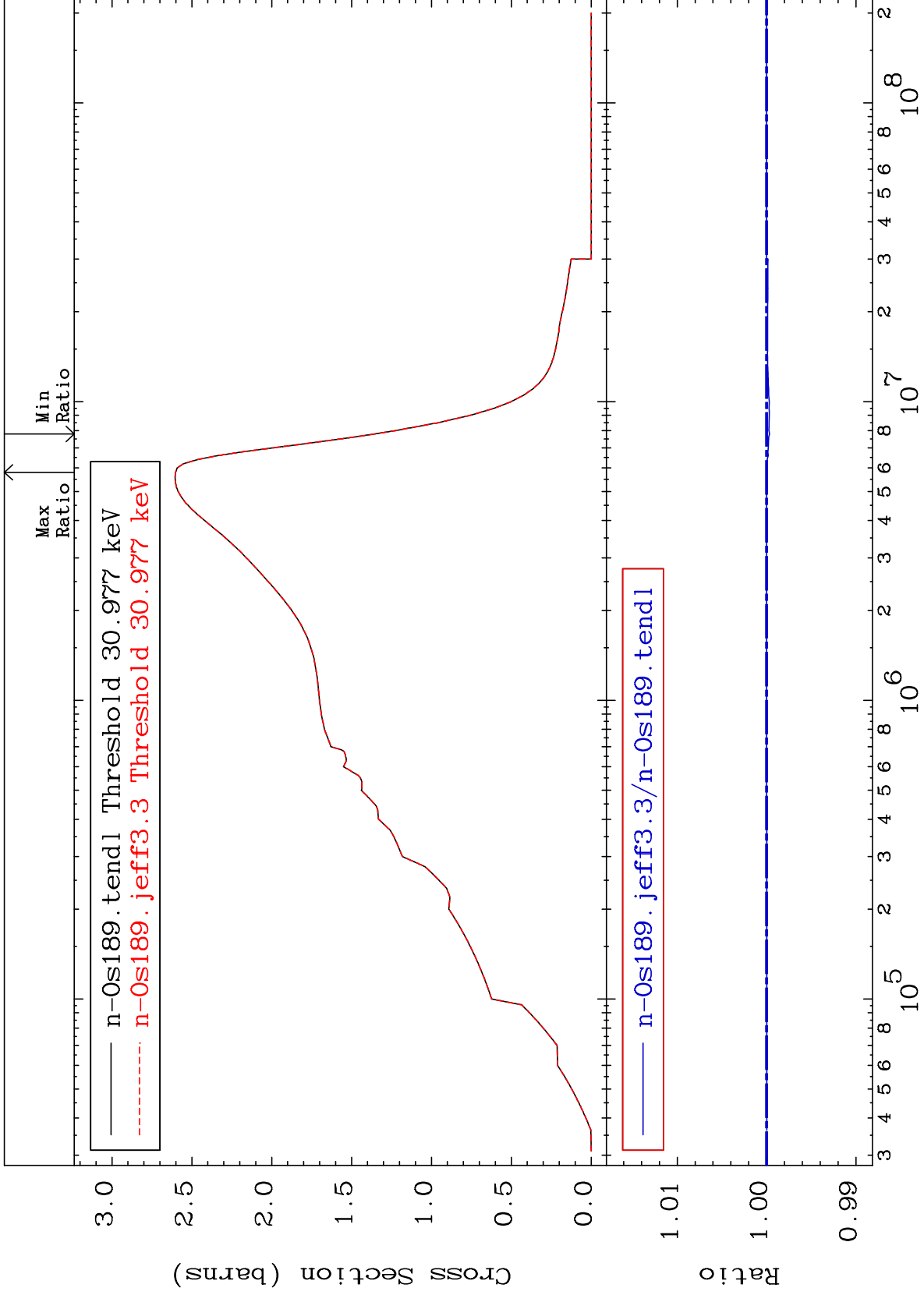
76-0s-189
-99.89 To 9999. %



MAT 7640

Inelastic
Cross Section

76-0s-189
-0.032 To 0.001 %



3

Incident Energy (eV)

76-0s-189

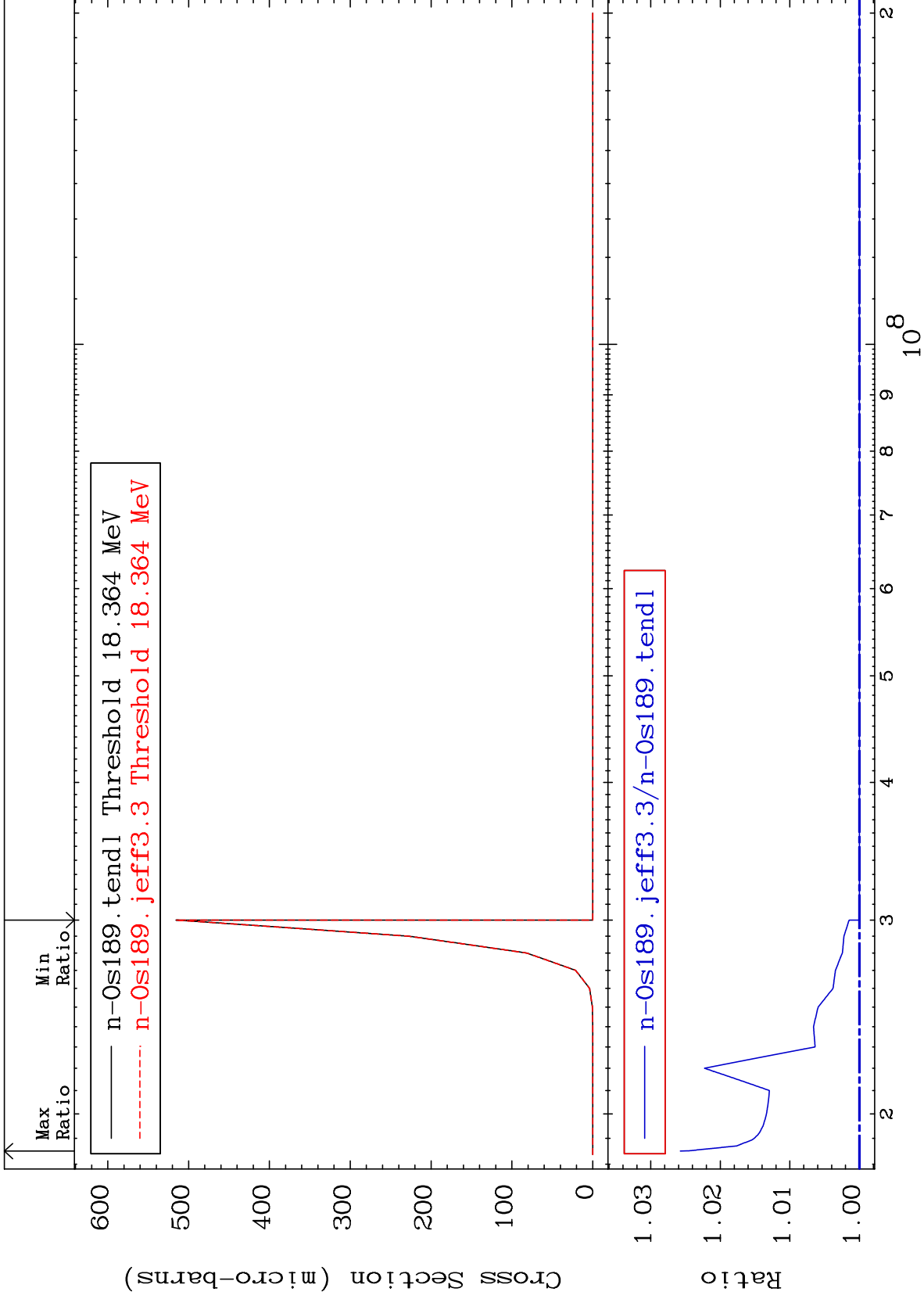
MAT 7640

(n,2n) d

76-0s-189

Cross Section

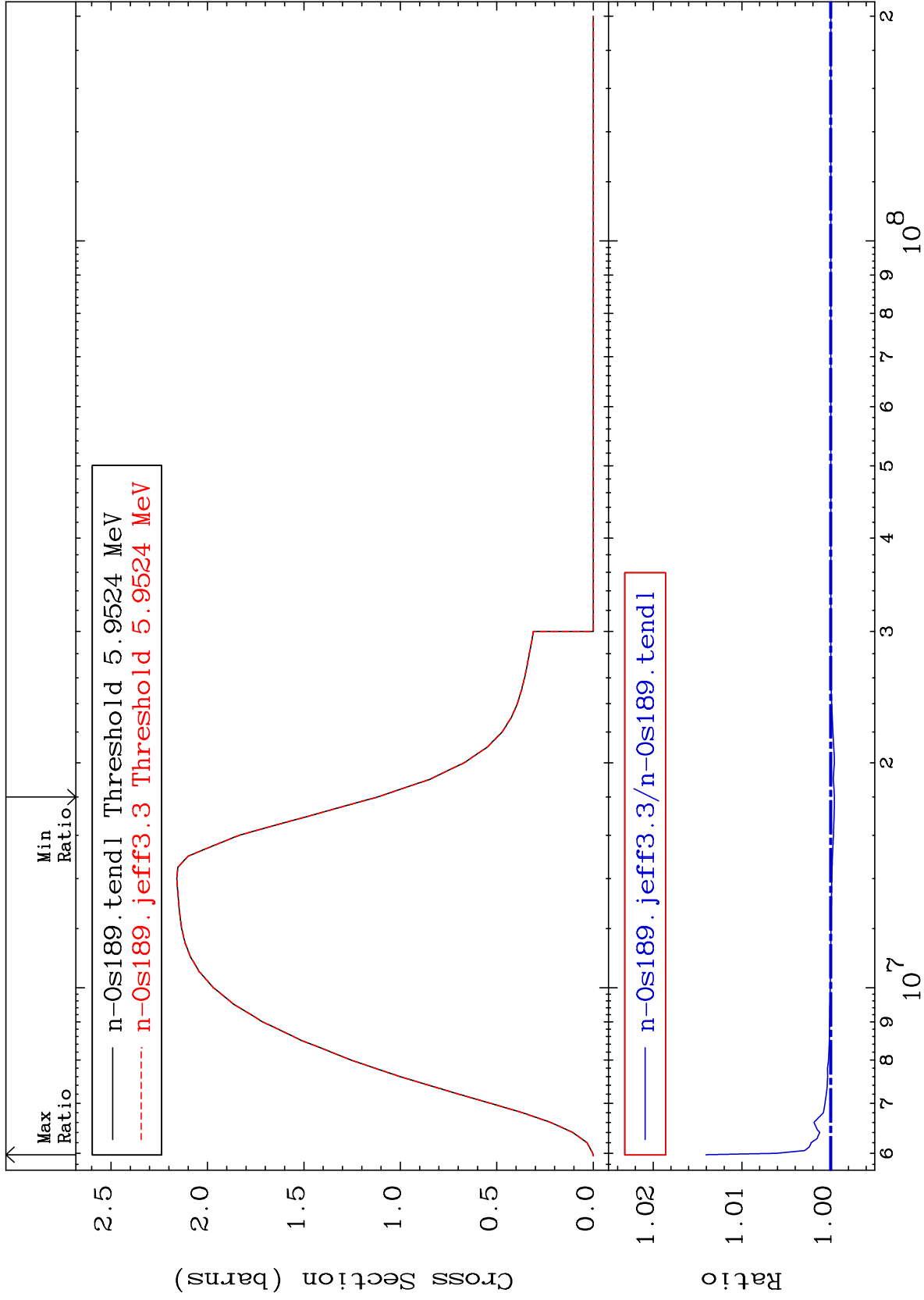
0.000 To 2.574 %



MAT 7640

(n,2n)
Cross Section

76-0s-189
-0.042 To 1.406 %



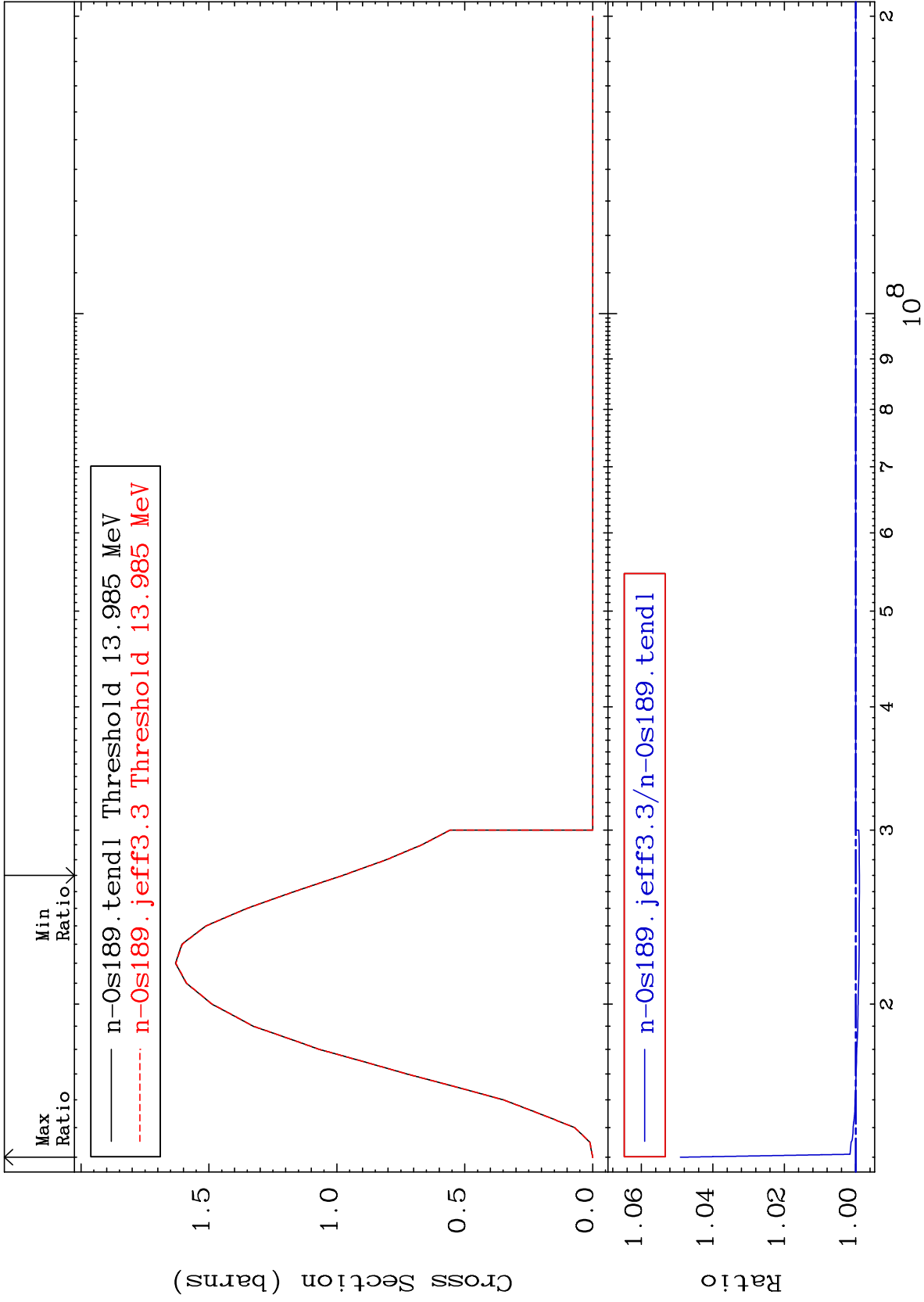
5

Incident Energy (eV)

76-0s-189

Cross Section

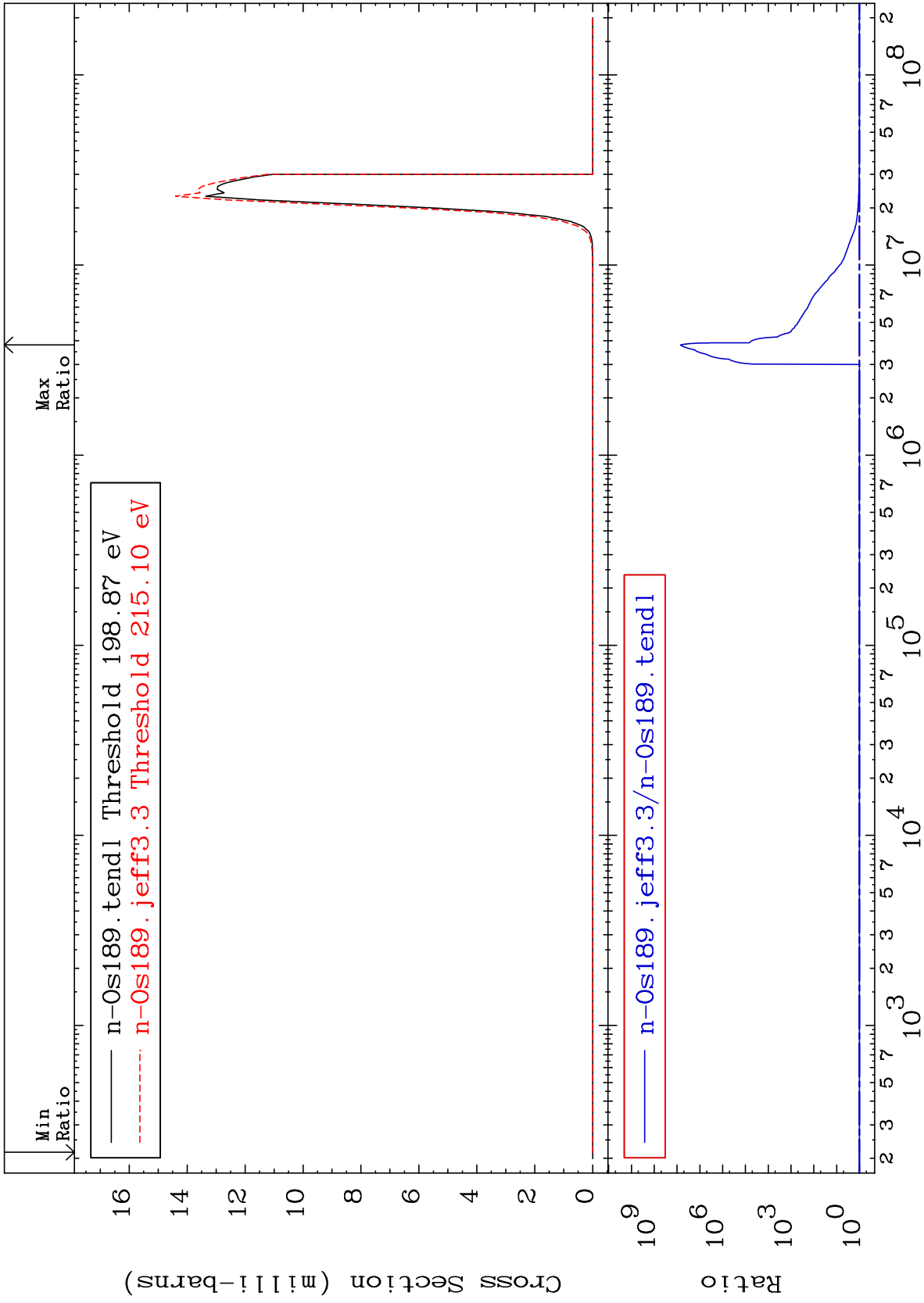
-0.103 To 4.910 %



MAT 7640

(n, n') α
Cross Section

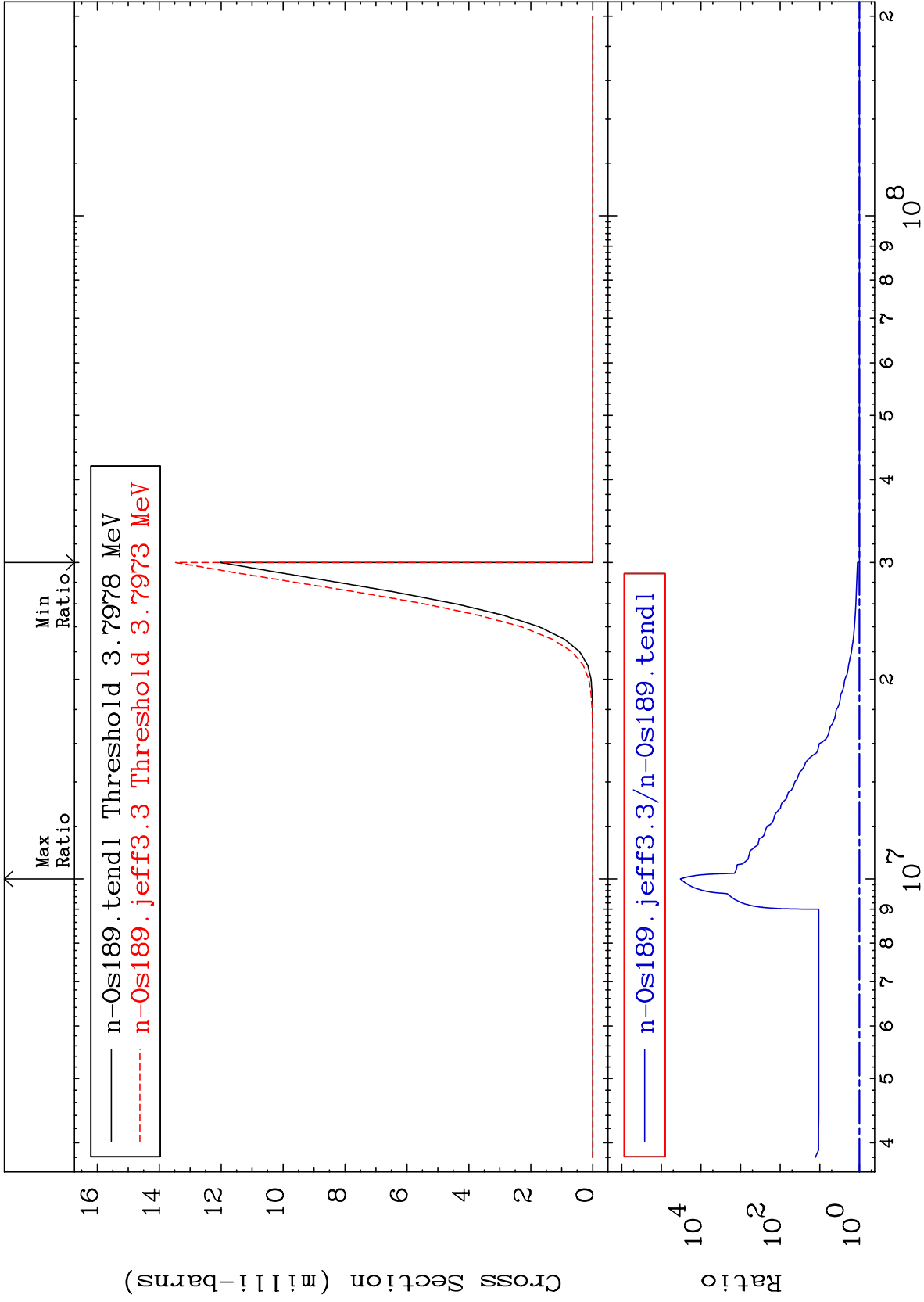
76-0s-189
To 9999. %



MAT 7640

(n,2n) α
Cross Section

76-0s-189
To 9999. %
0.000



8

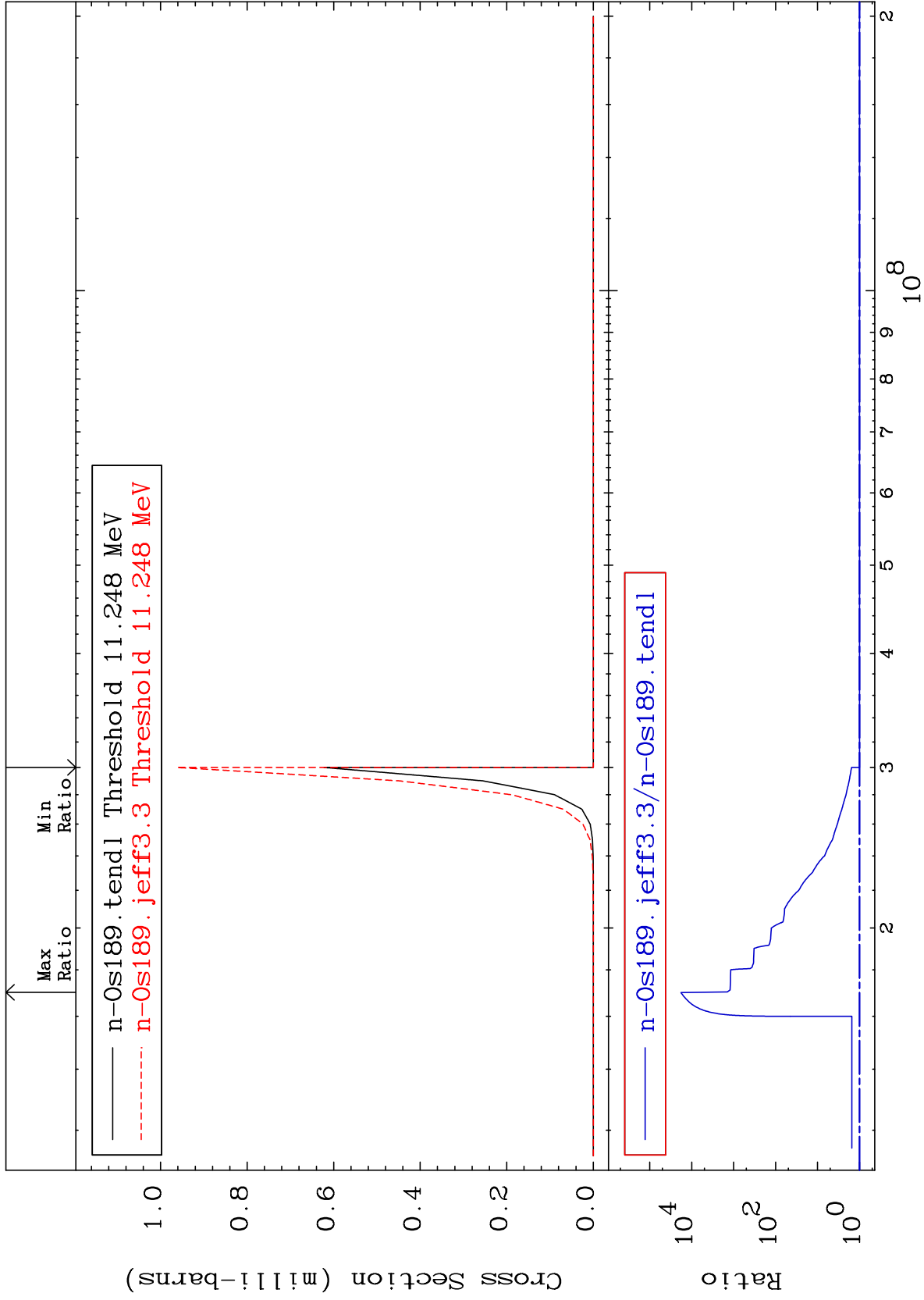
Incident Energy (eV)

76-0s-189

MAT 7640

(n,3n) α
Cross Section

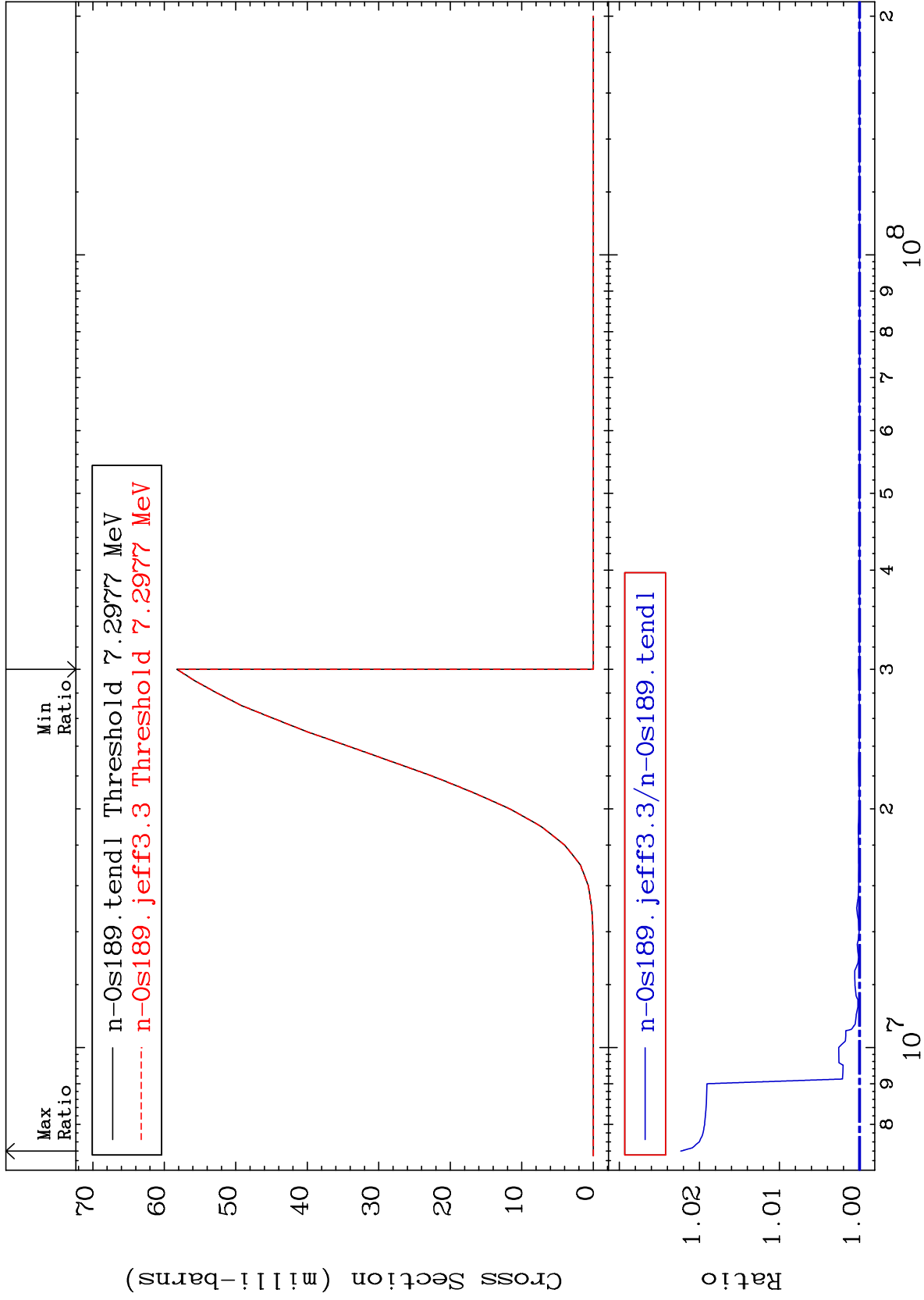
76-0s-189
To 9999. %
0.000



MAT 7640

(n,n') p
Cross Section

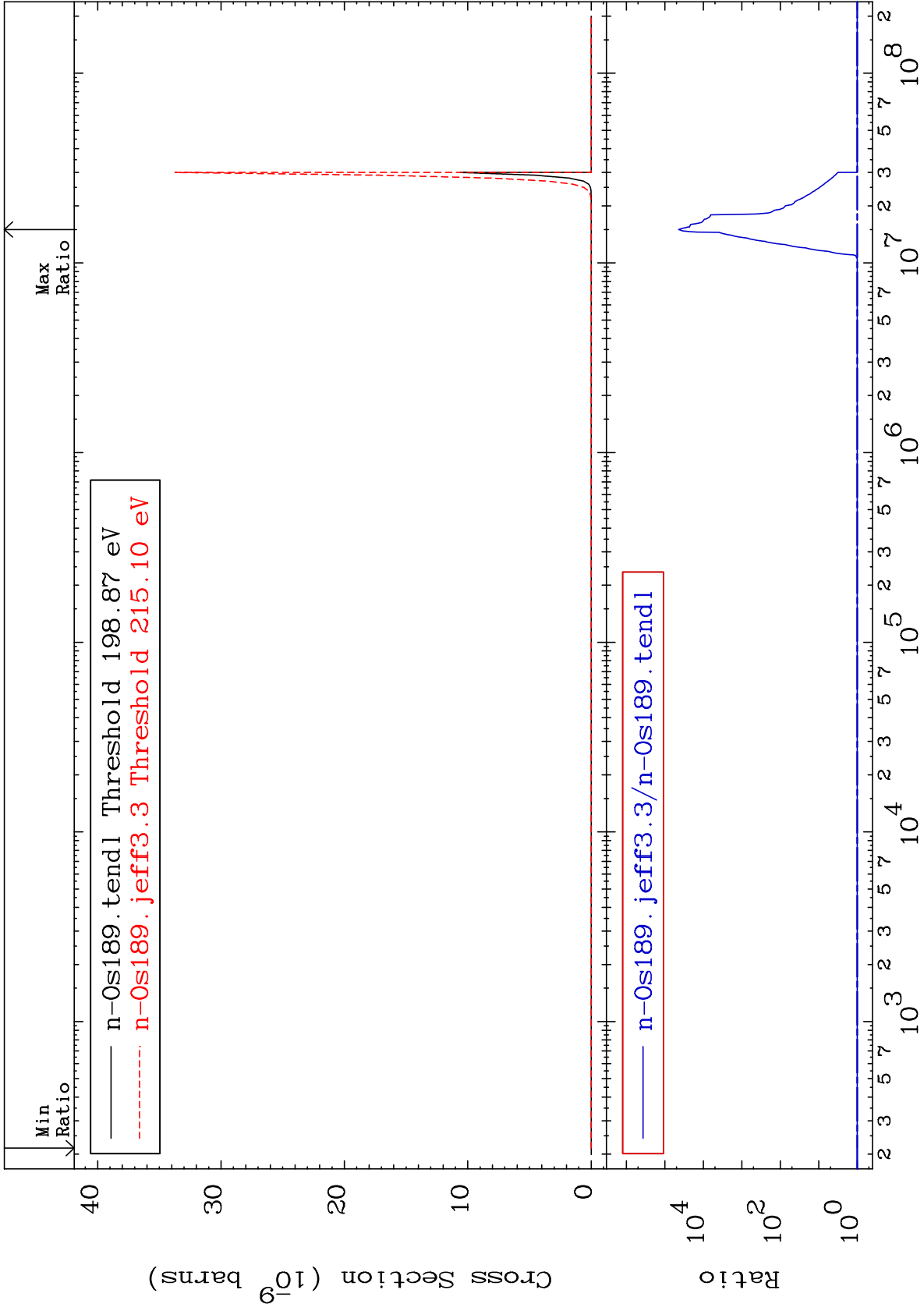
76-0s-189
0.000 To 2.233 %

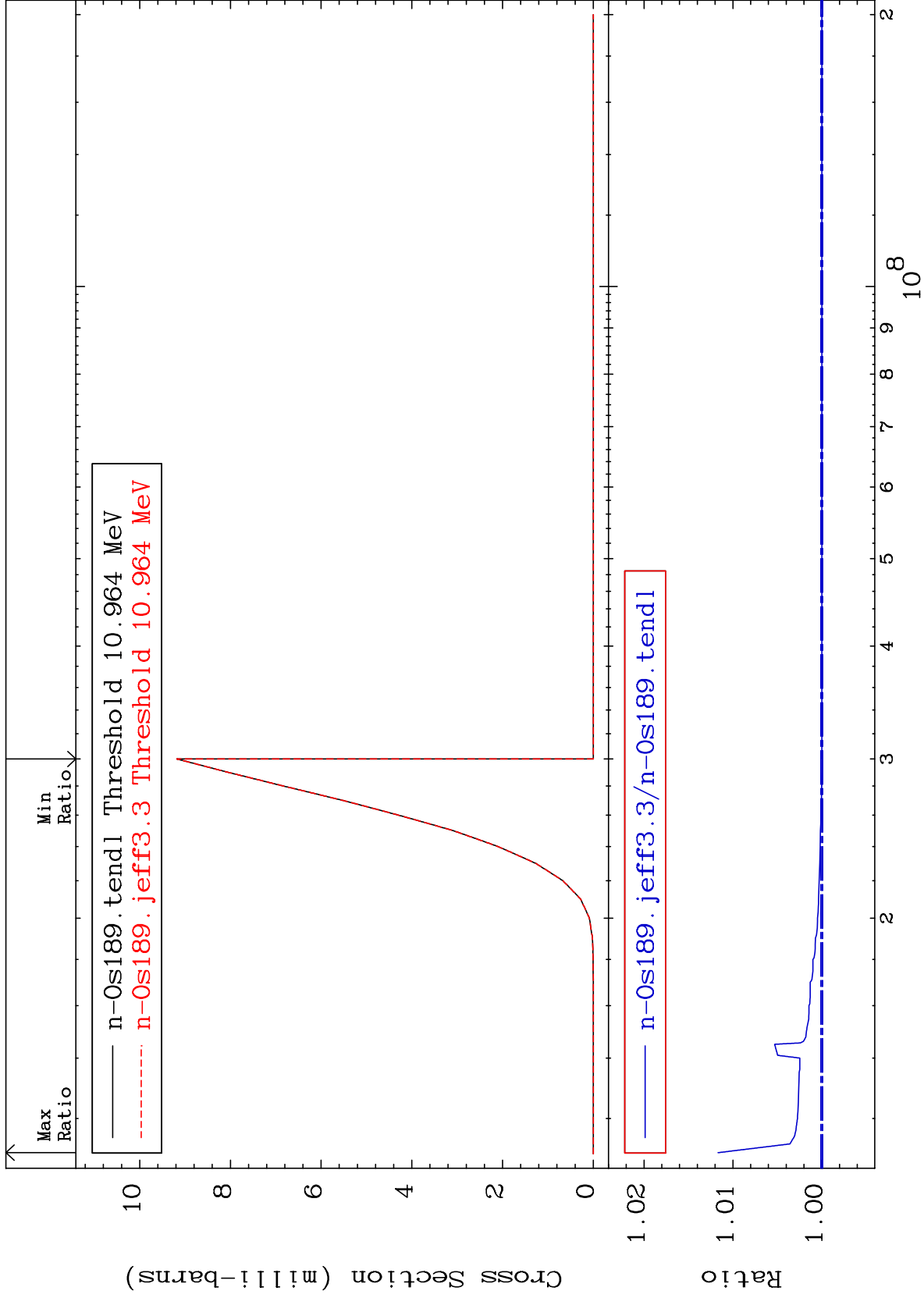


MAT 7640

(n, n') 2α
Cross Section

76-0s-189
To 9999. %





MAT 7640

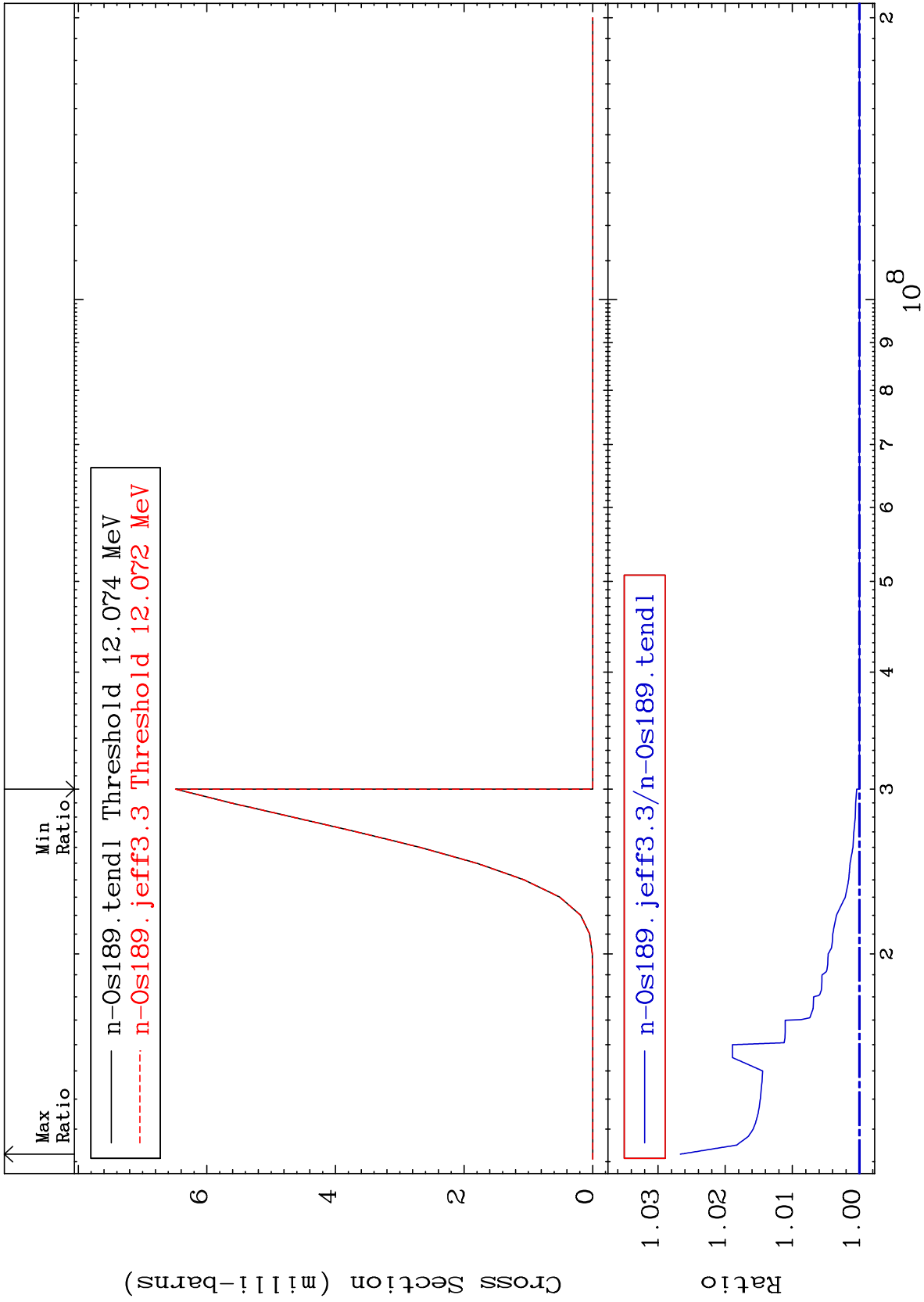
(n,n') t

76-0s-189

Cross Section

0.000

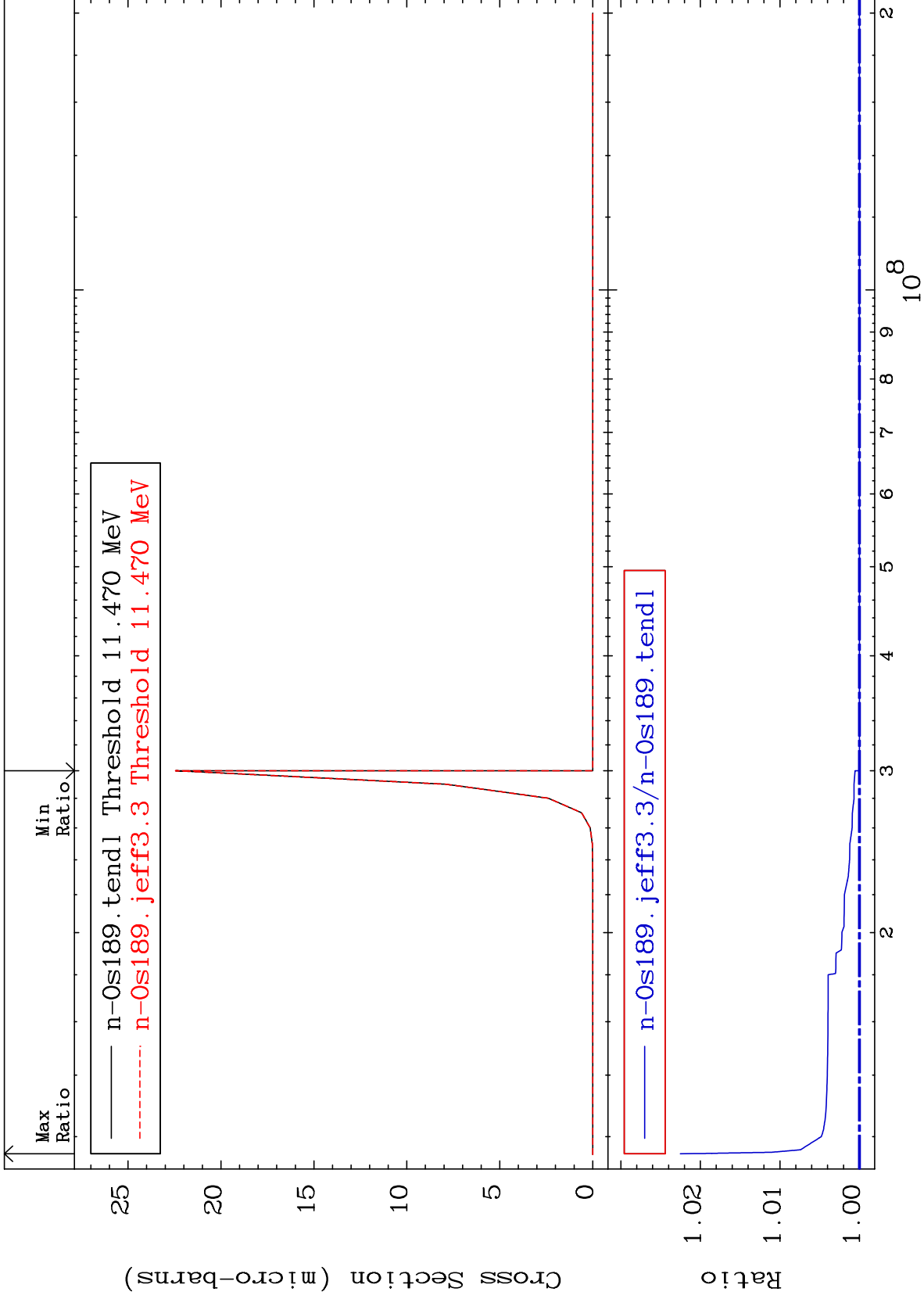
To 2.668 %



MAT 7640

(n, n') He-3
Cross Section

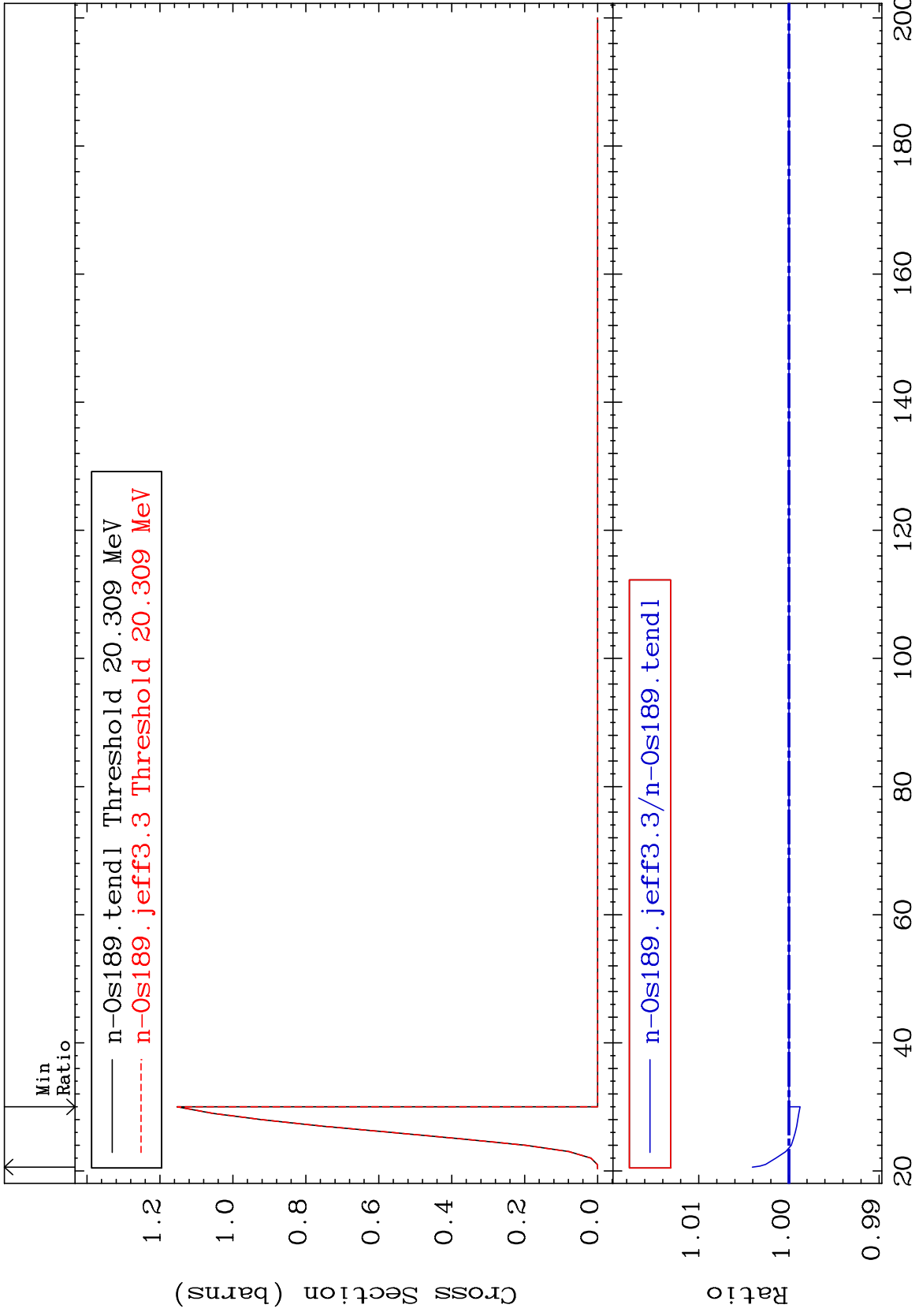
76-0s-189
0.000 To 2.251 %



MAT 7640

(n,4n)
Cross Section

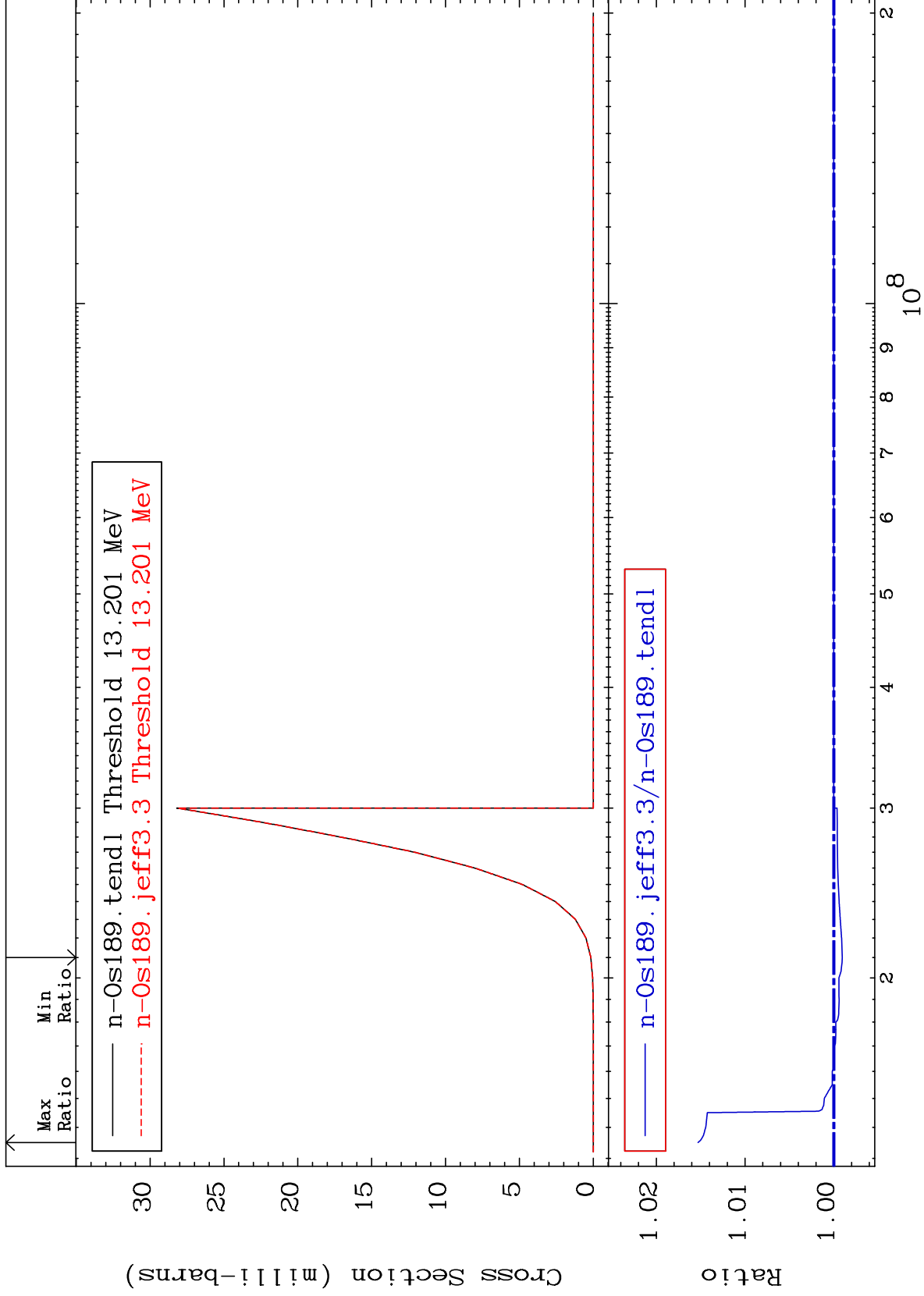
76-0s-189
-0.125 To 0.406 %



15

Incident Energy (MeV)

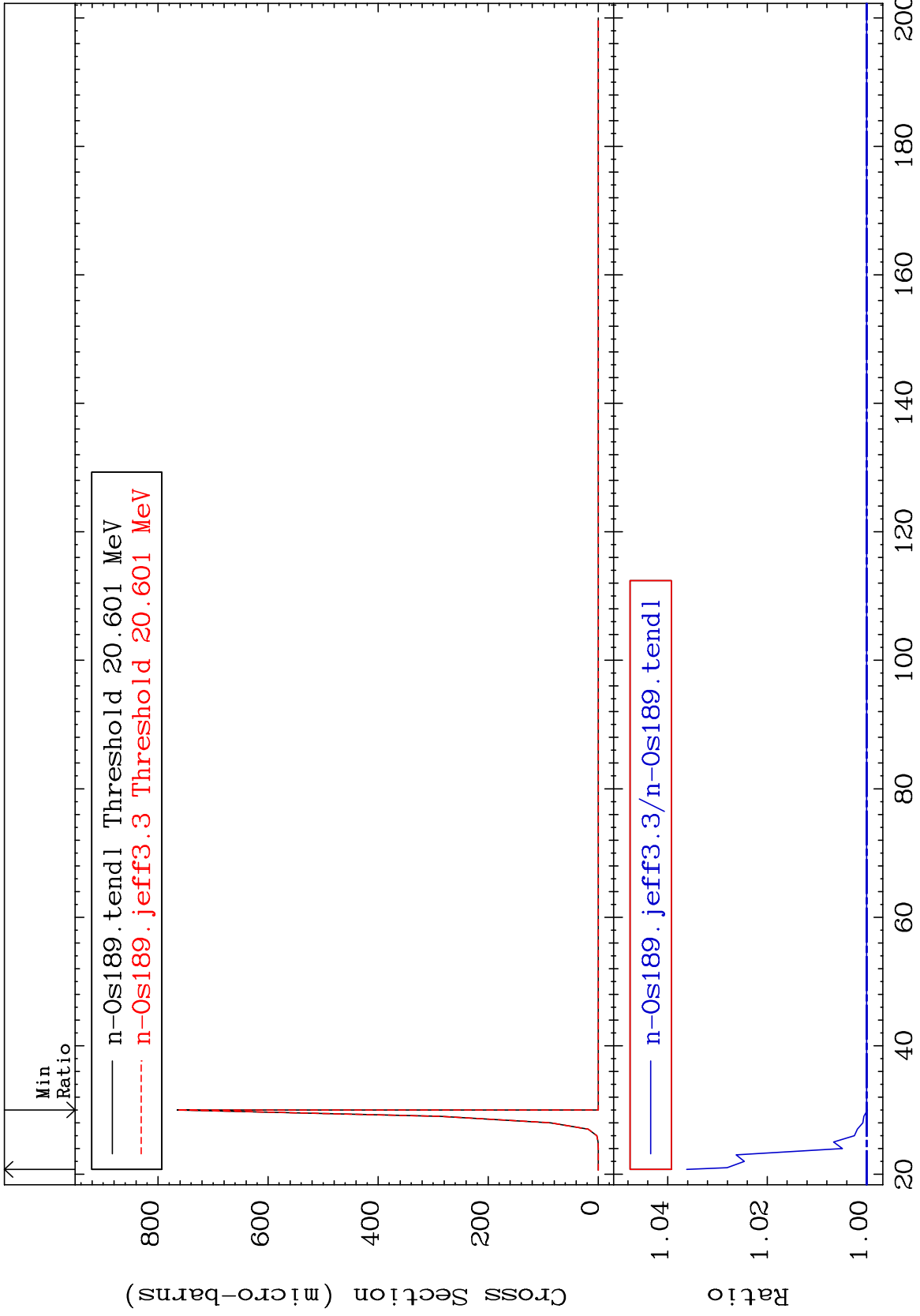
76-0s-189



MAT 7640

(n,3n) p
Cross Section

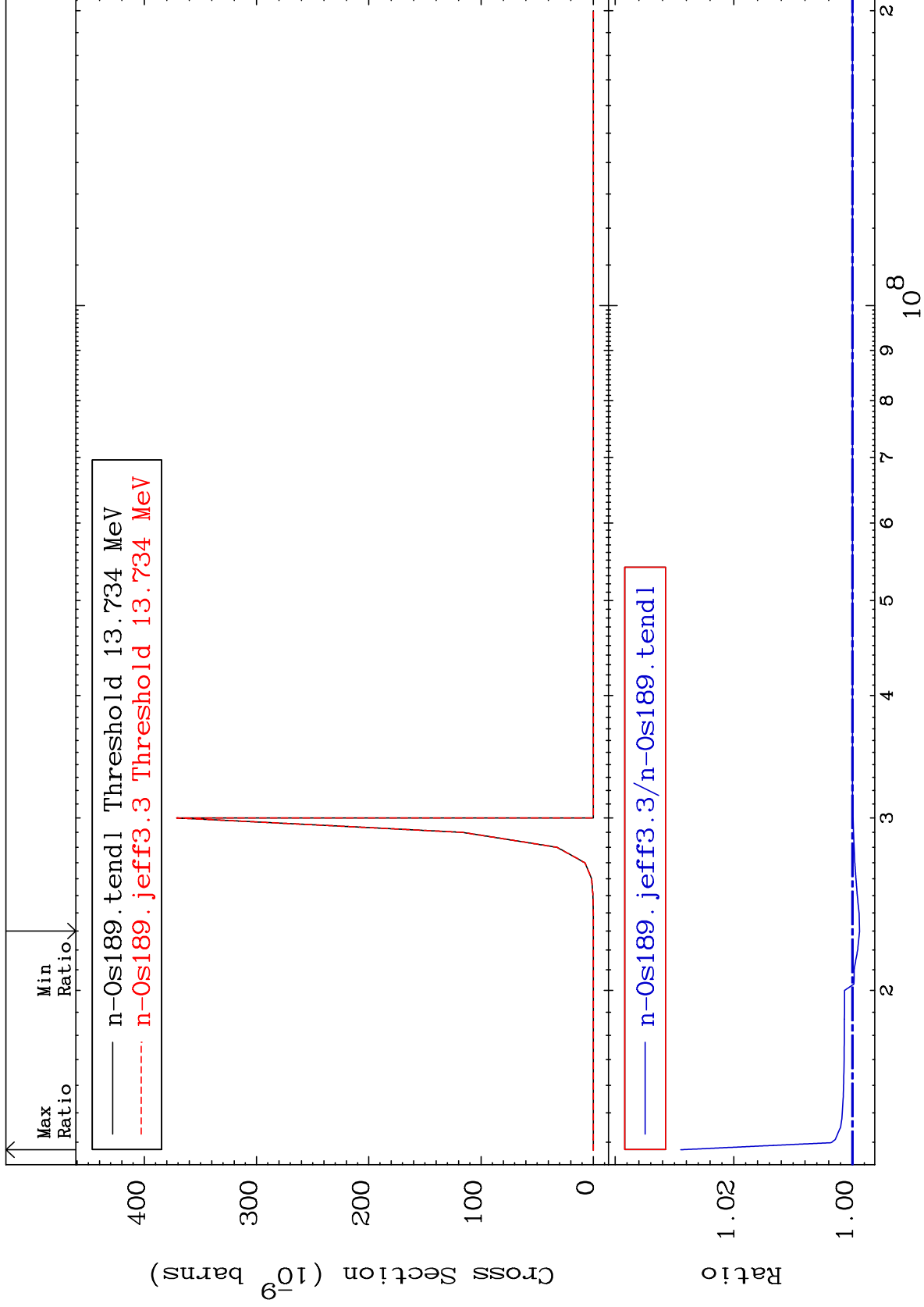
76-0s-189
-0.015 To 3.618 %



MAT 7640

(n,2n) p
Cross Section

76-0s-189
-0.120 To 2.895 %



18

Incident Energy (eV)

76-0s-189

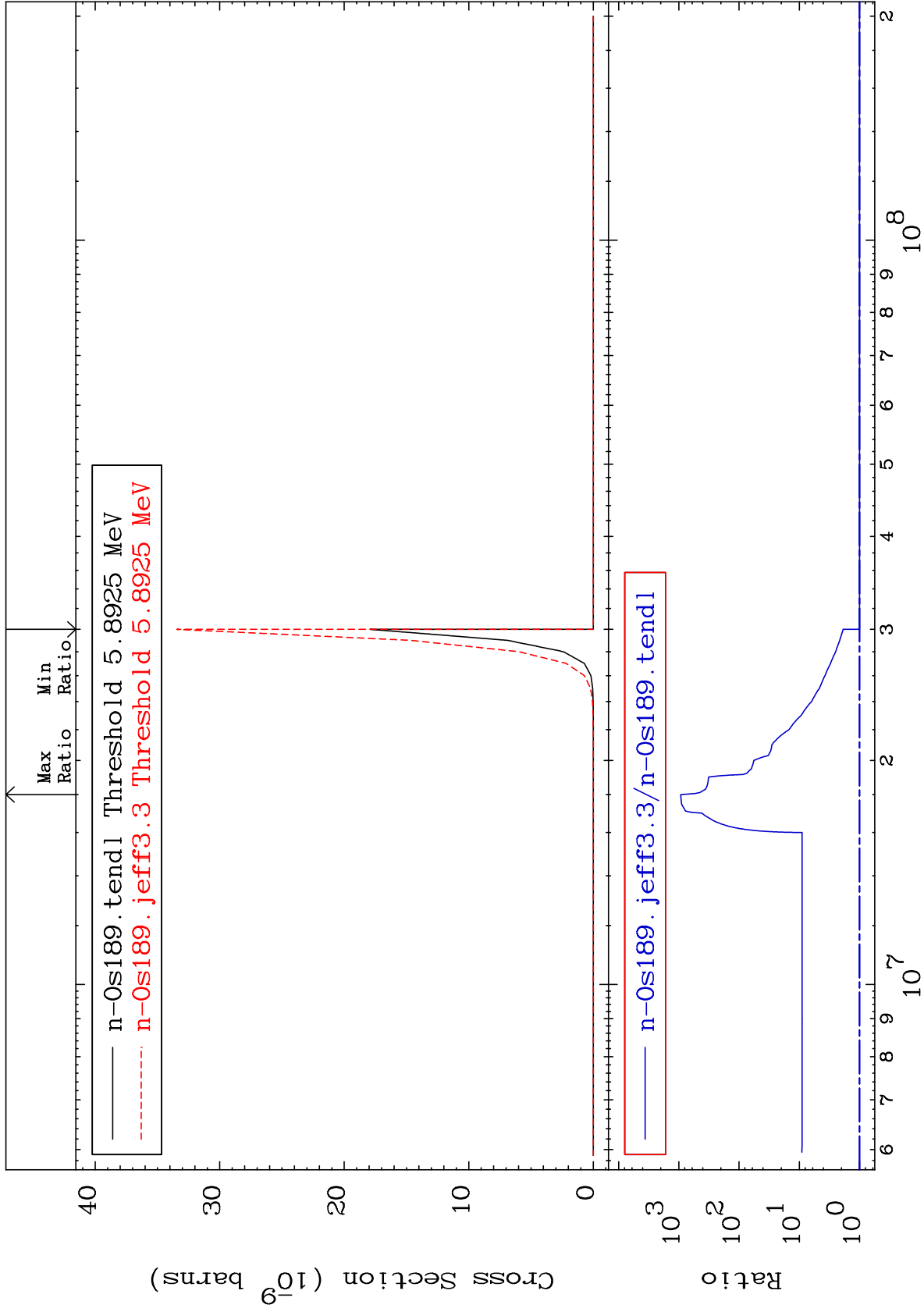
MAT 7640

(n,n') p α

76-0s-189

Cross Section

0.000 To 9999. %



19

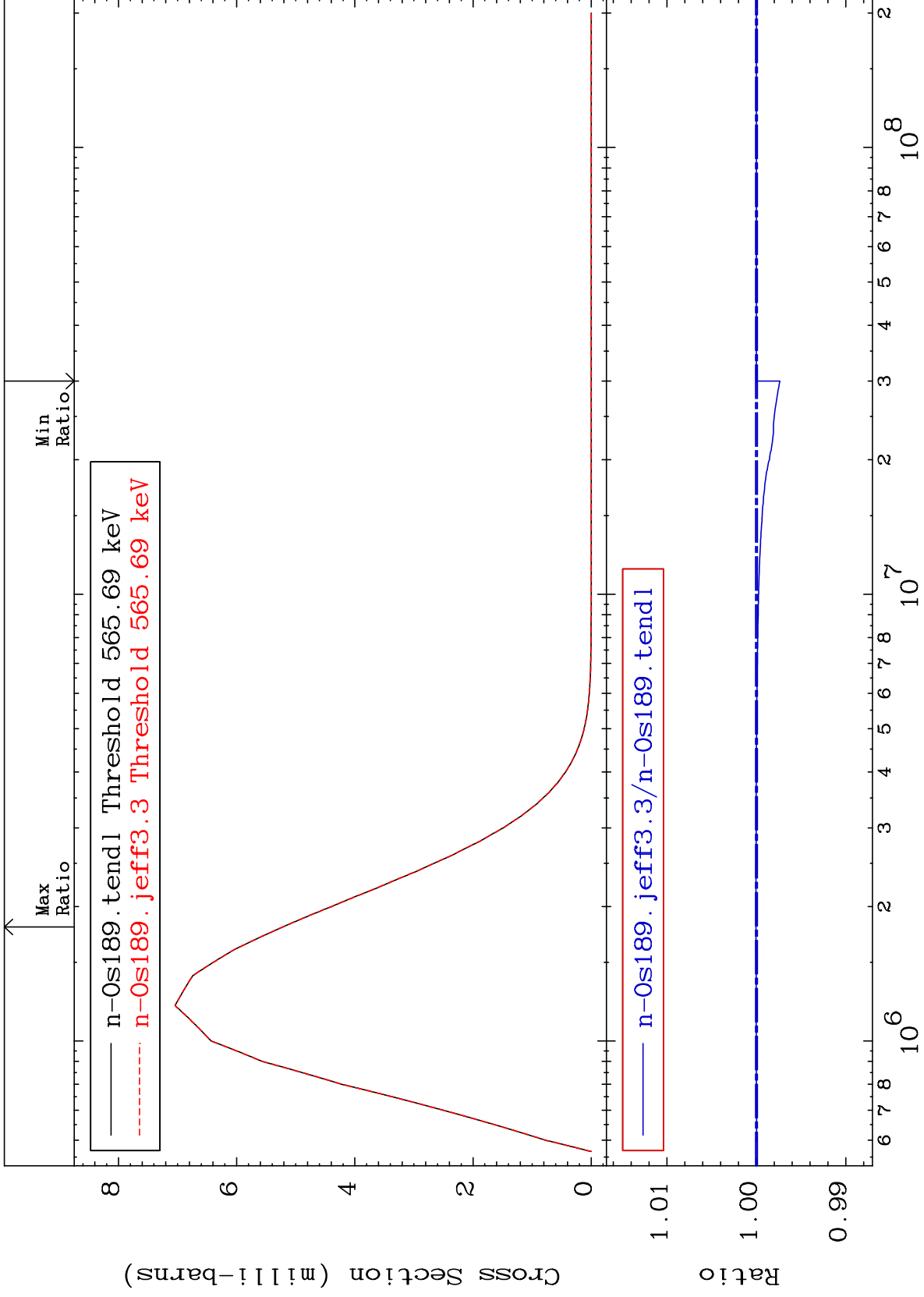
Incident Energy (eV)

76-0s-189

MAT 7640

MT= 71 (n,n') Level
Cross Section

76-0s-189
-0.262 To 0.005 %



20

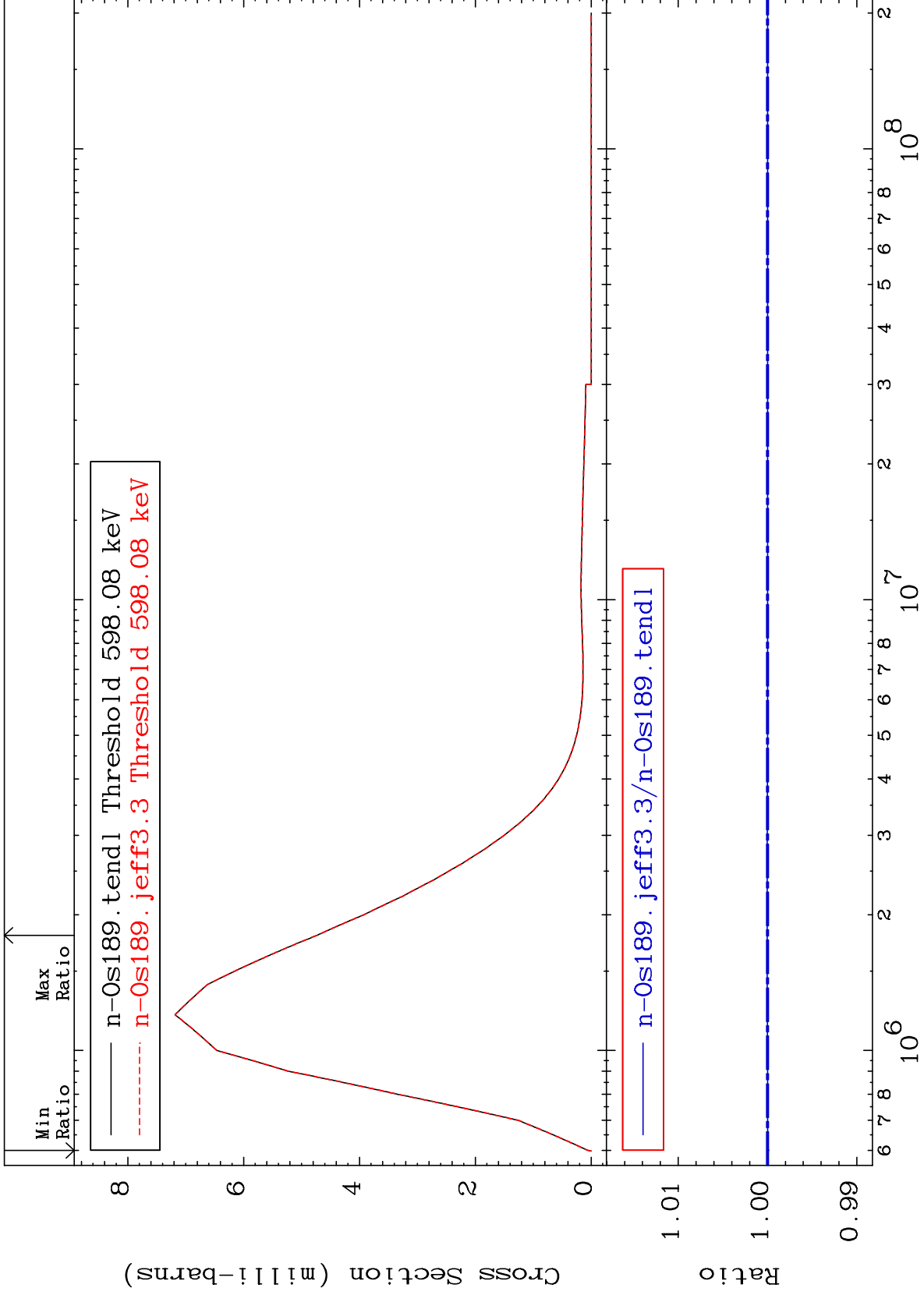
Incident Energy (eV)

76-0s-189

MAT 7640

MT= 72 (n,n') Level
Cross Section

76-0s-189
-0.014 To 0.004 %



21

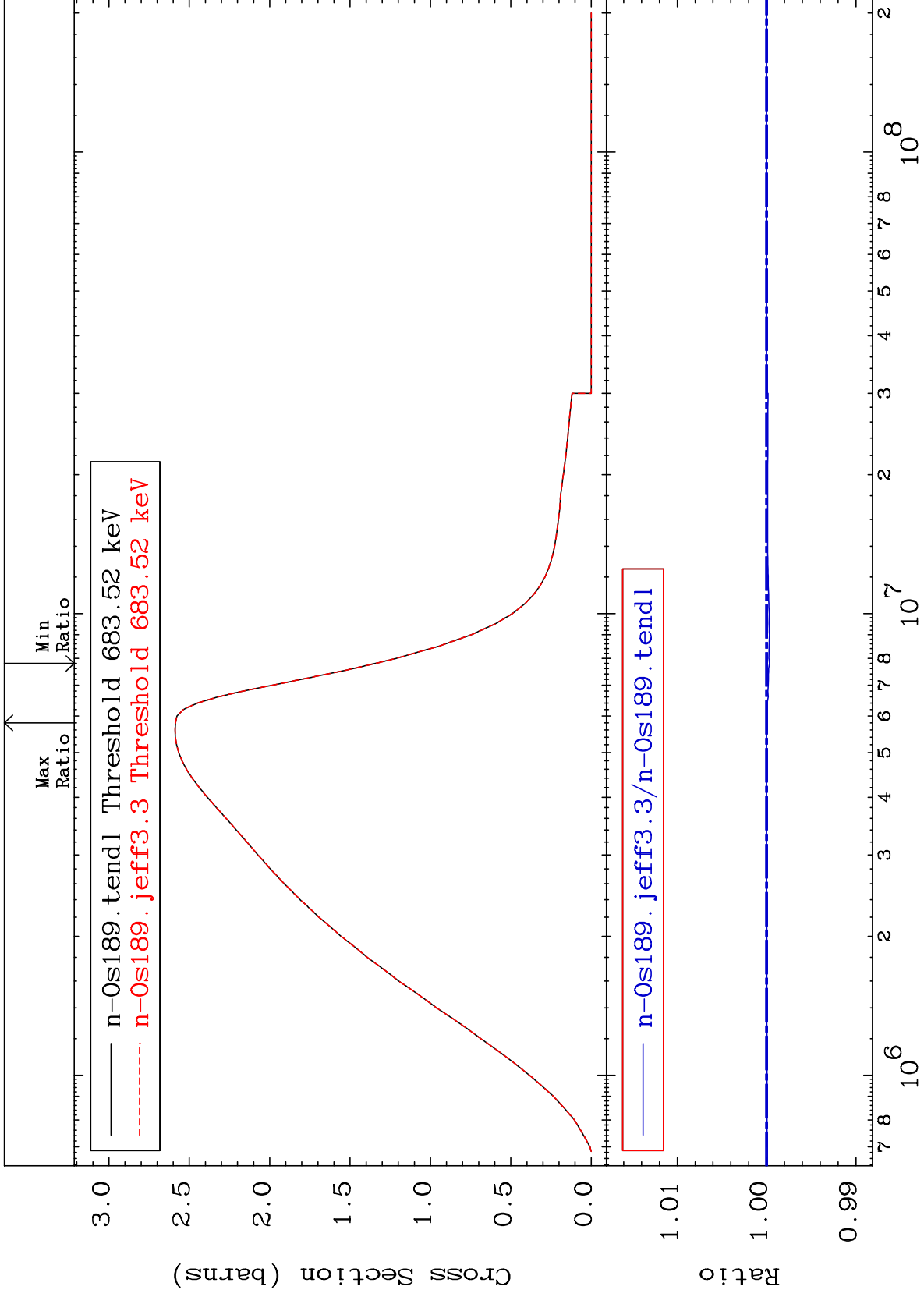
Incident Energy (eV)

76-0s-189

MAT 7640

(n, n') Continuum
Cross Section

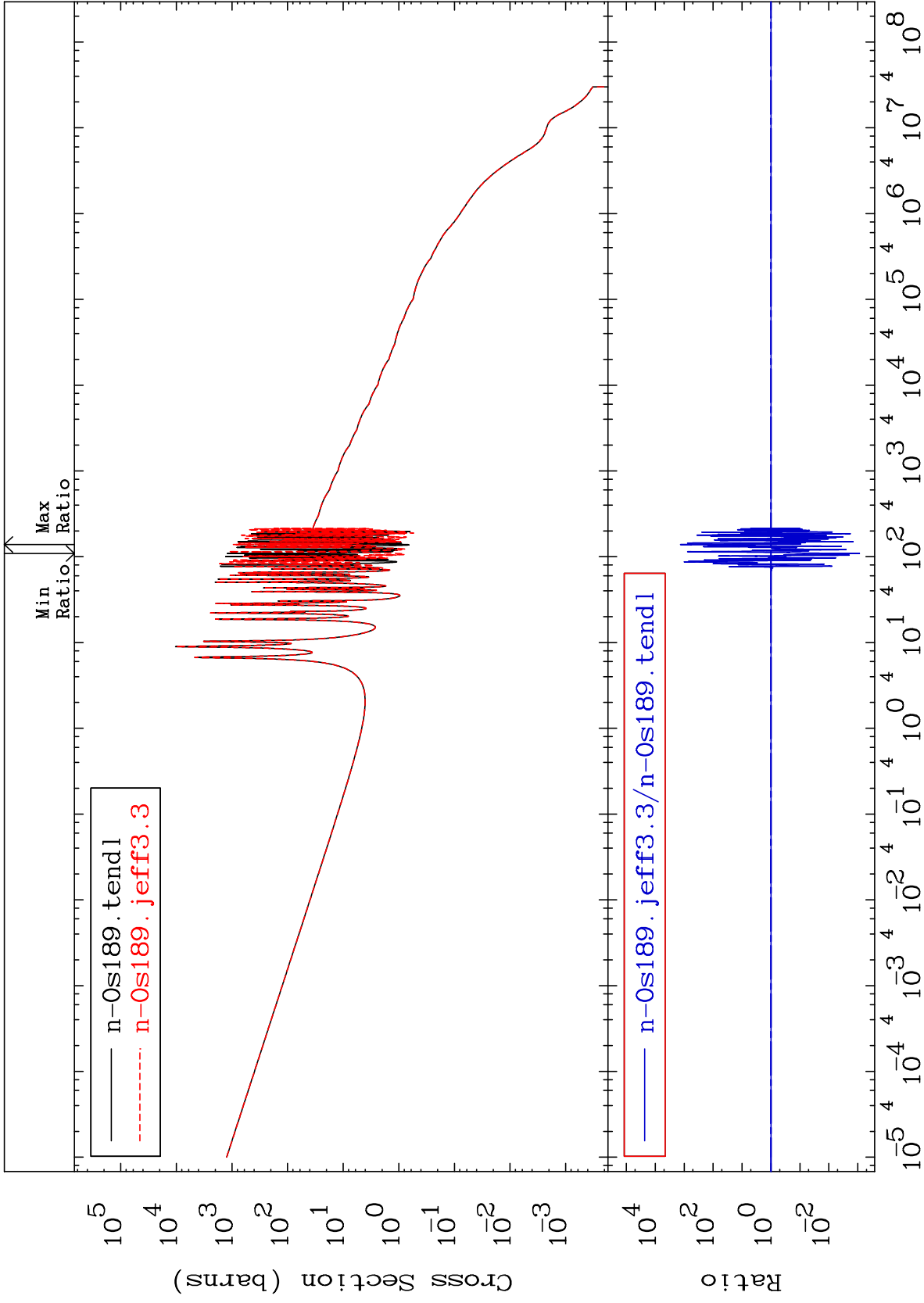
76-0s-189
-0.032 To 0.001 %



MAT 7640

(n, γ)
Cross Section

76-0s-189
-99.91 To 9999. %



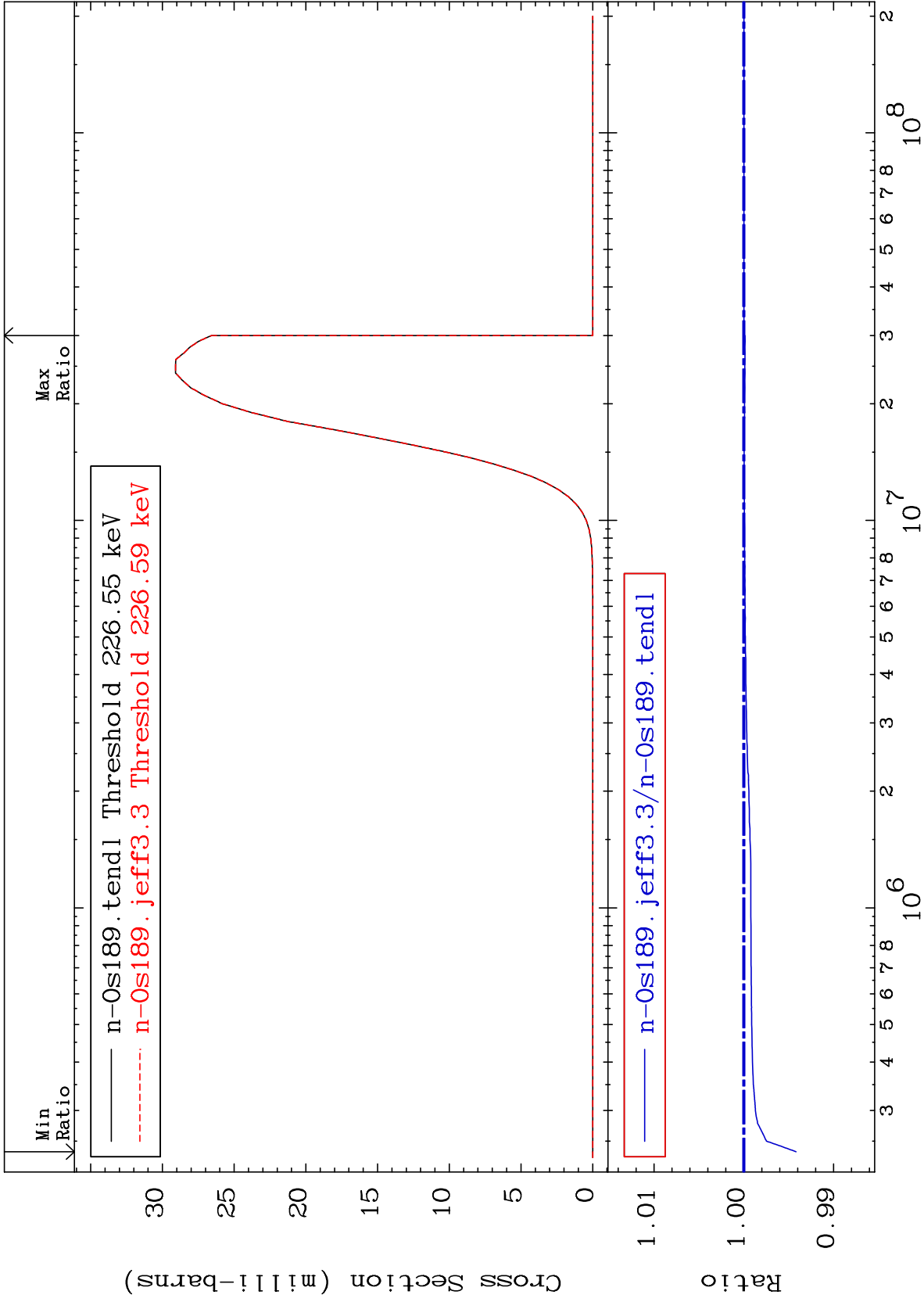
MAT 7640

(n,p)

Cross Section

76-0s-189

-0.581 To 0.000 %



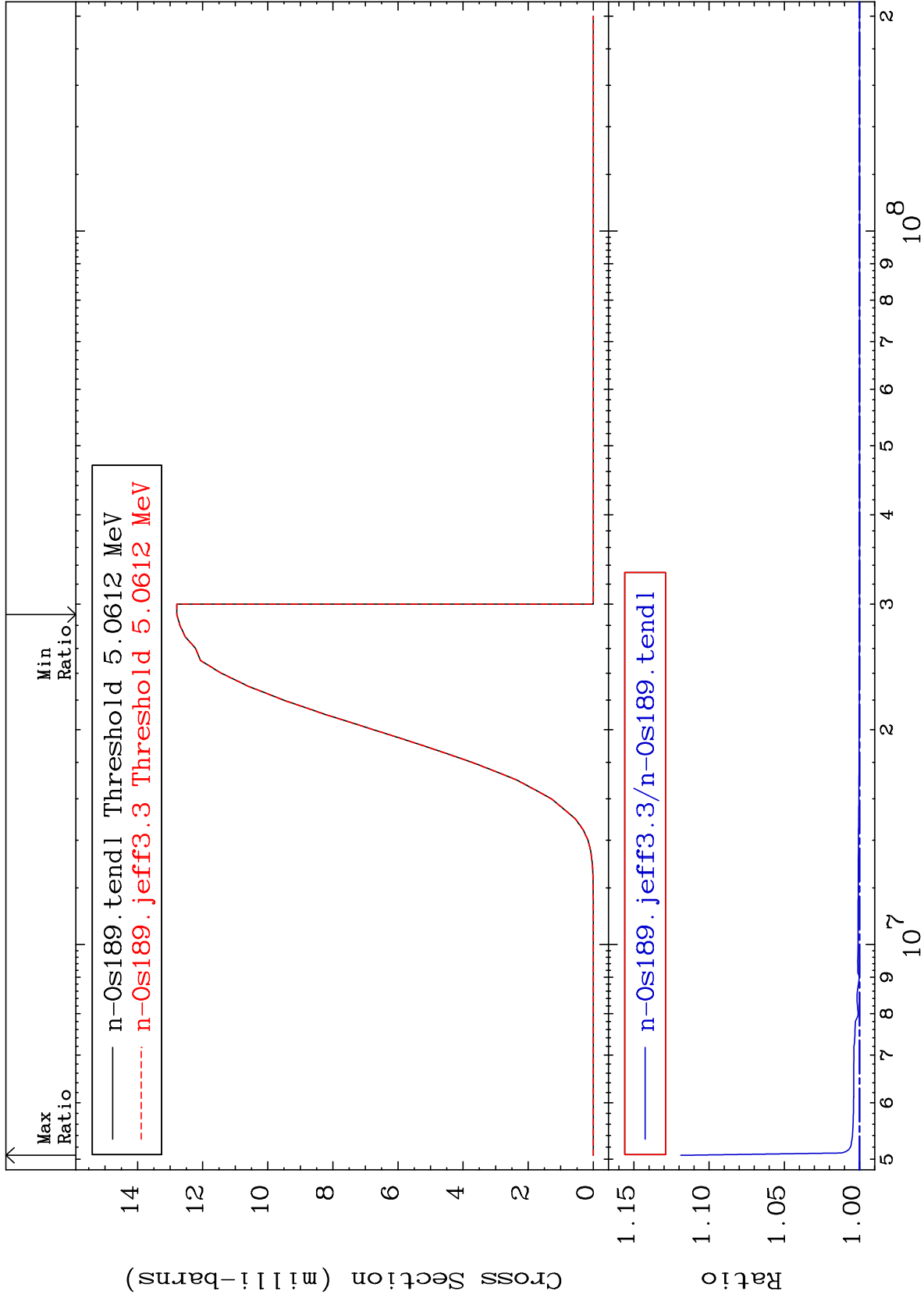
MAT 7640

(n, d)

76-0s-189

Cross Section

-0.002 To 11.89 %



25

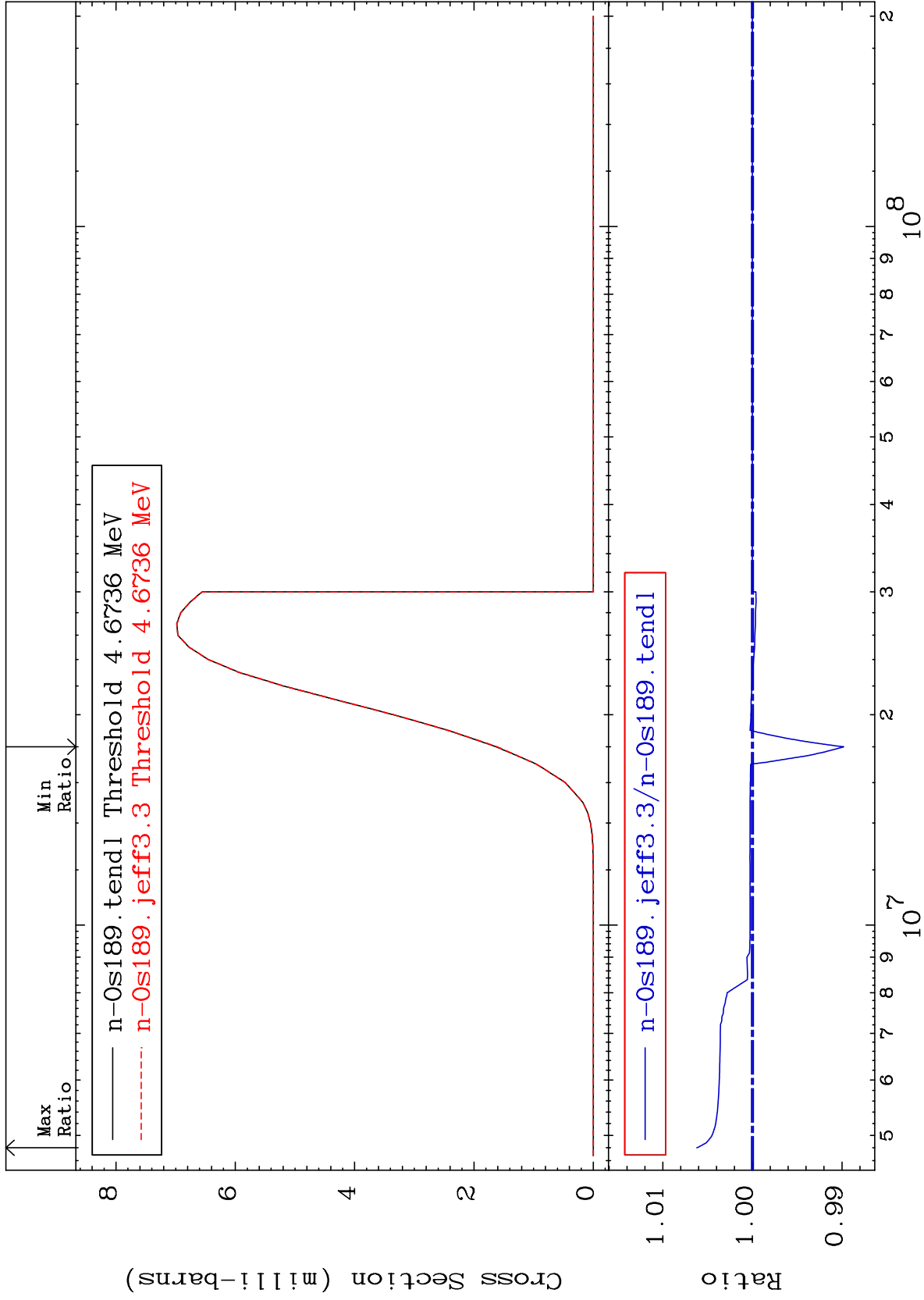
Incident Energy (eV)

76-0s-189

MAT 7640

(n, t)
Cross Section

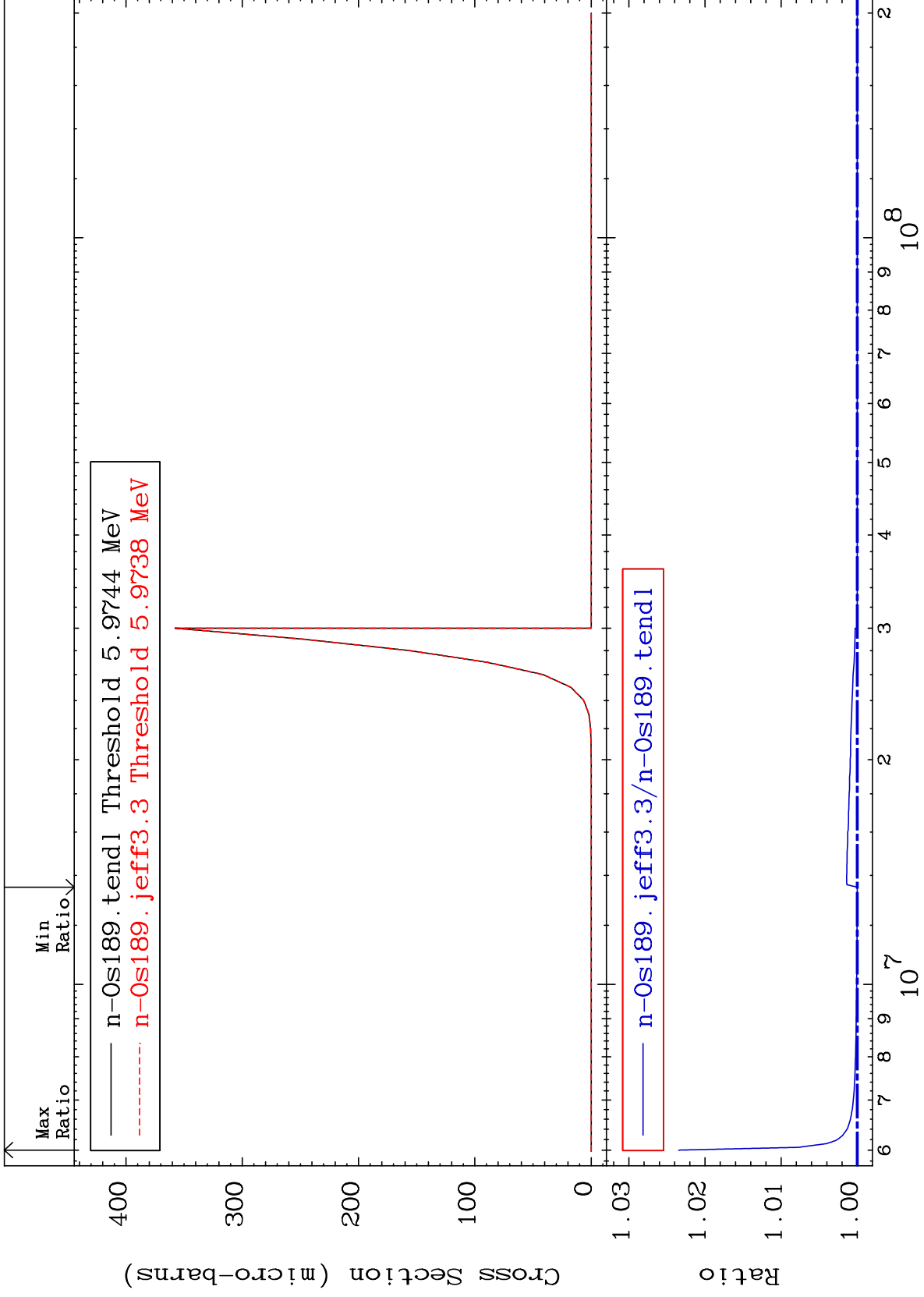
76-0s-189
-1.019 To 0.622 %



MAT 7640

(n, He-3)
Cross Section

76-0s-189
0.000 To 2.347 %



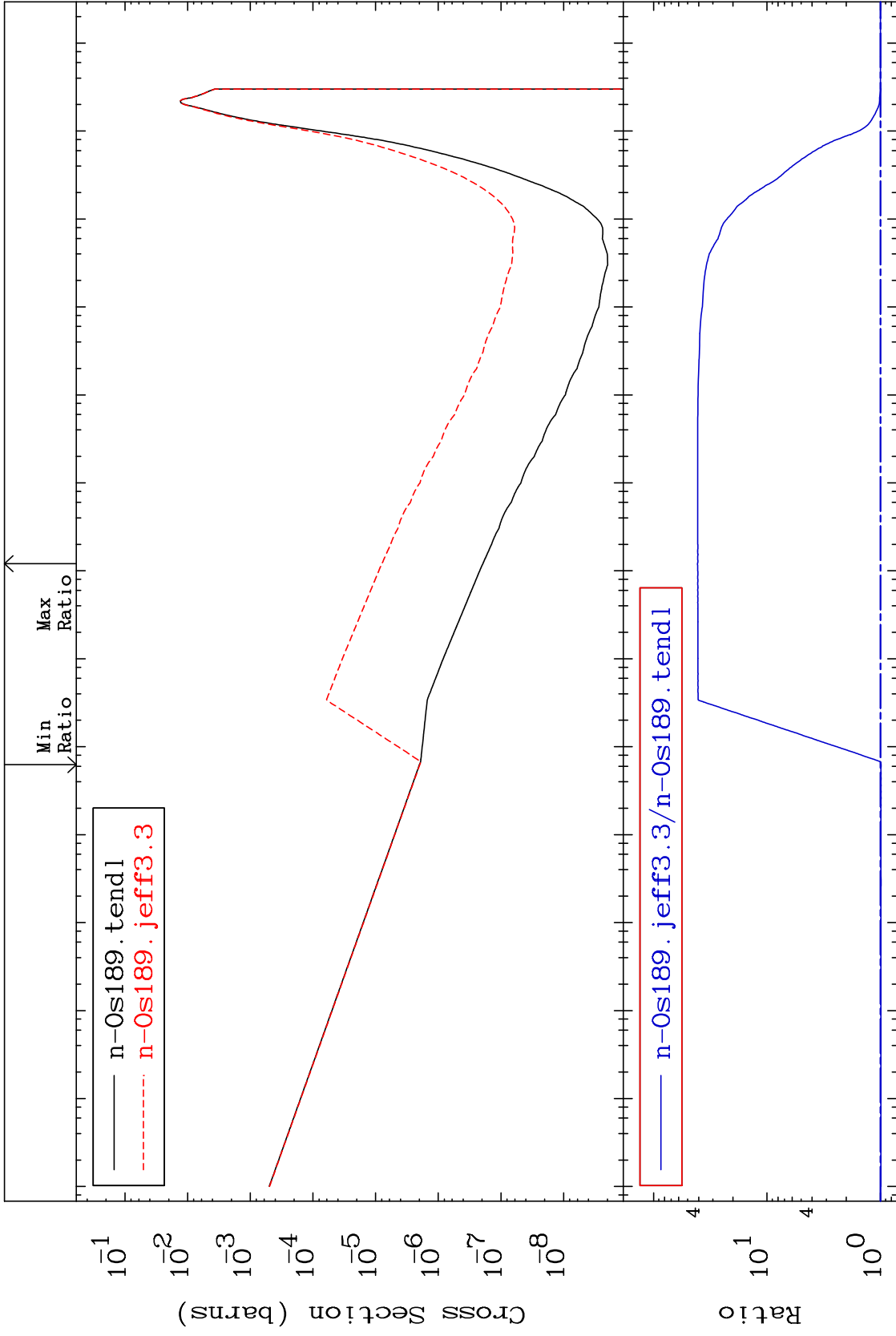
MAT 7640

(n, α)

76-0s-189

Cross Section

-1.308 To 3997. %



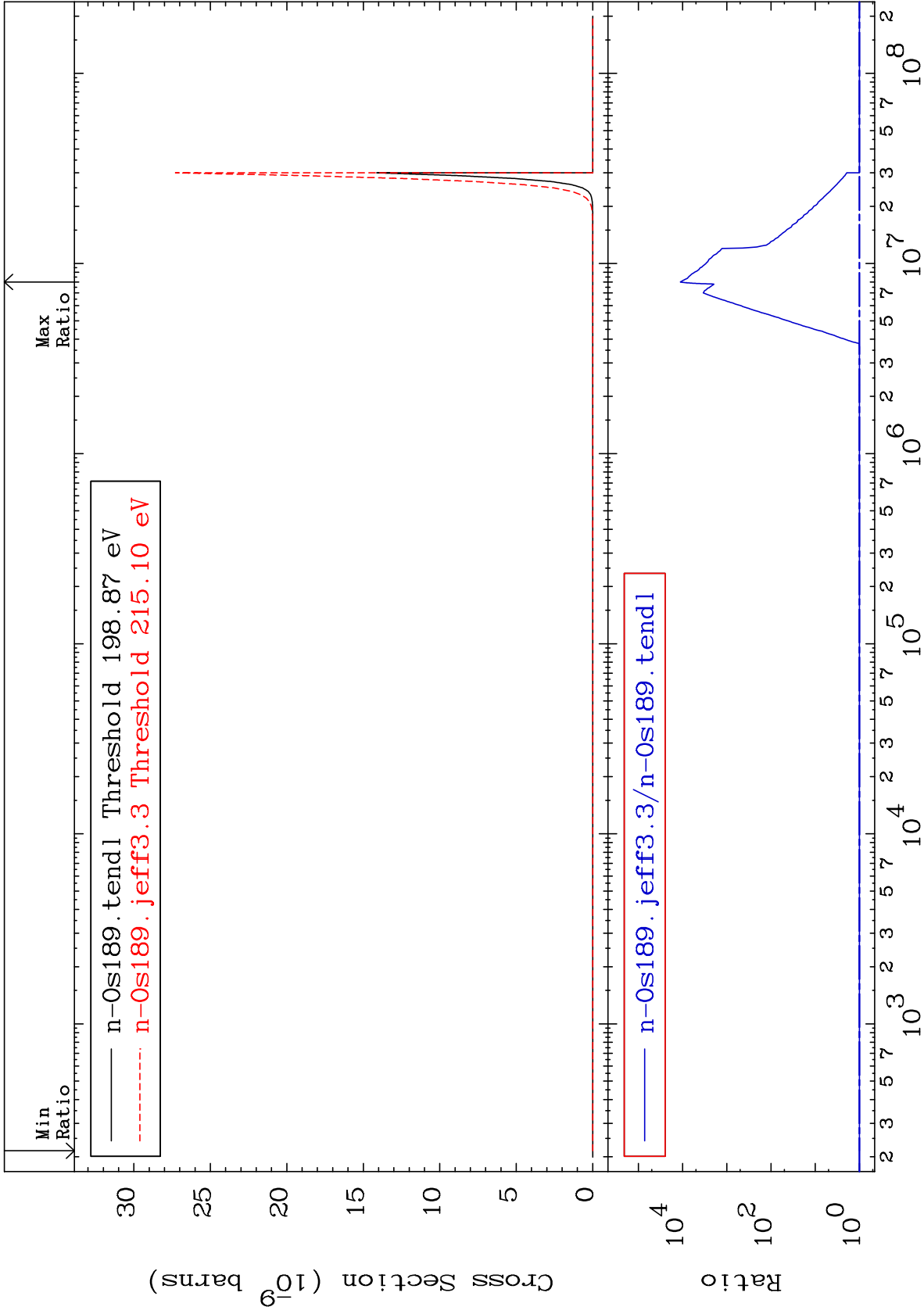
MAT 7640

(n,2α)

76-0s-189

Cross Section

0.000 To 9999. %



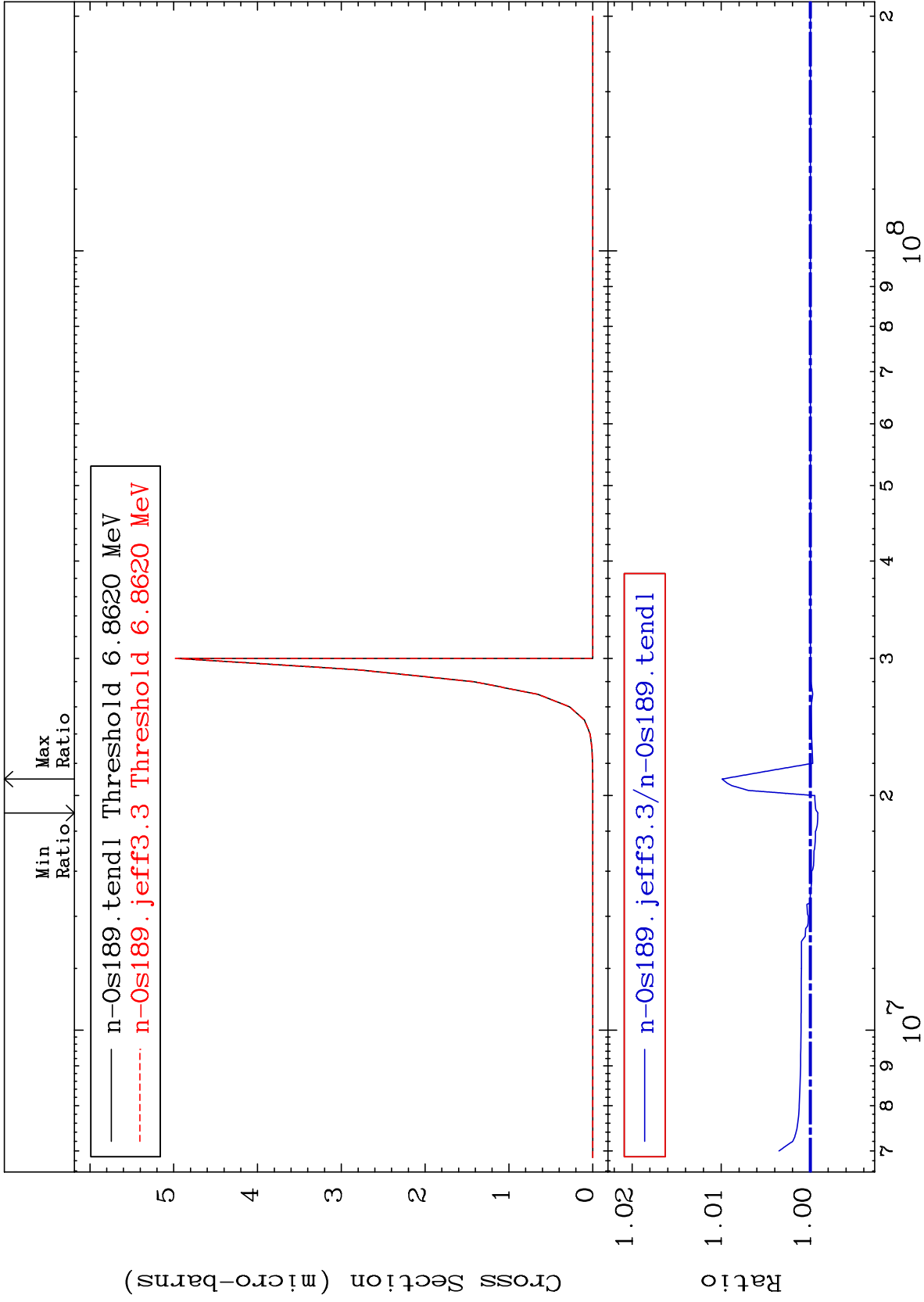
MAT 7640

(n,2p)

76-0s-189

Cross Section

-0.084 To 0.992 %



30

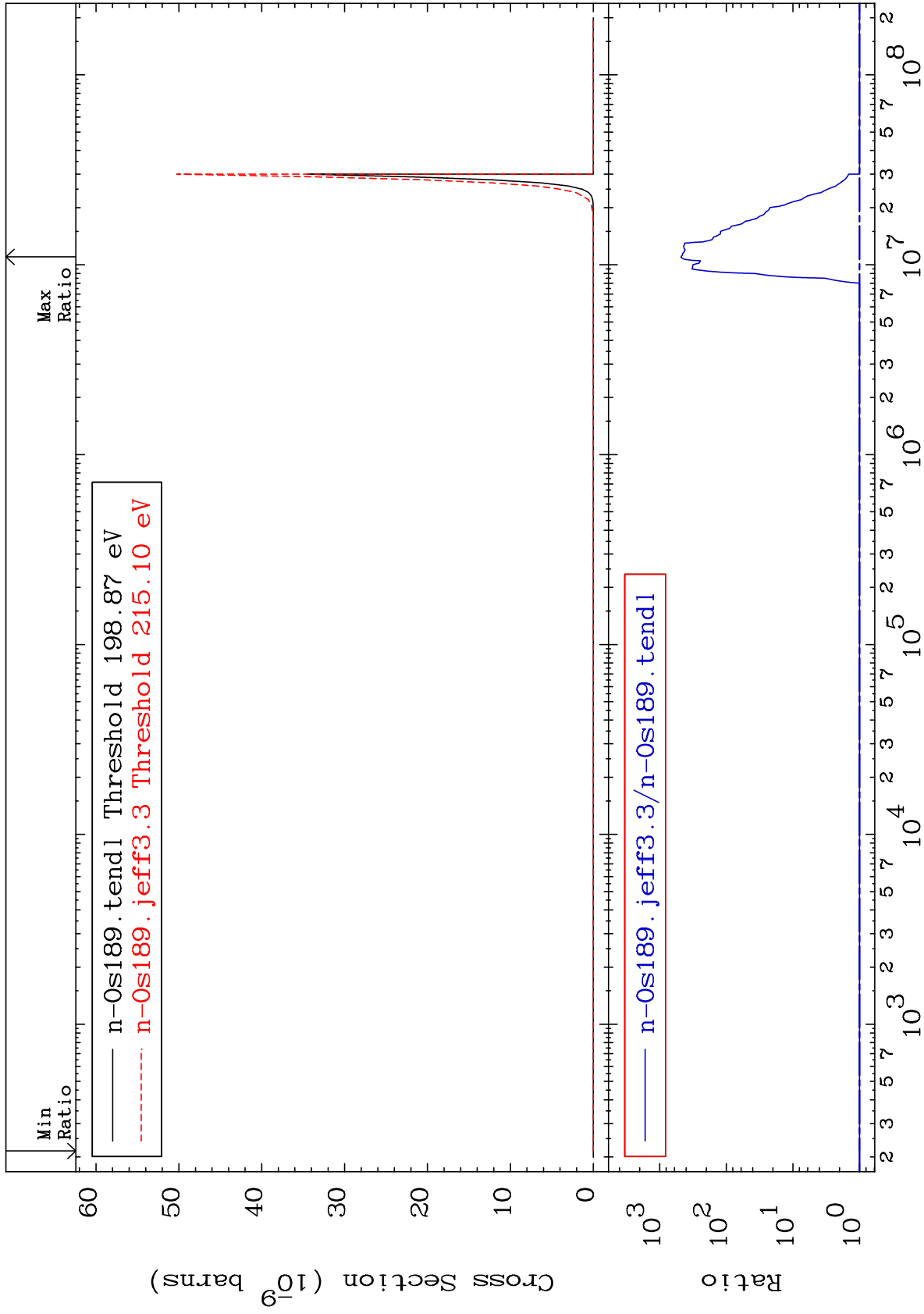
Incident Energy (eV)

76-0s-189

MAT 7640

(n,p) α
Cross Section

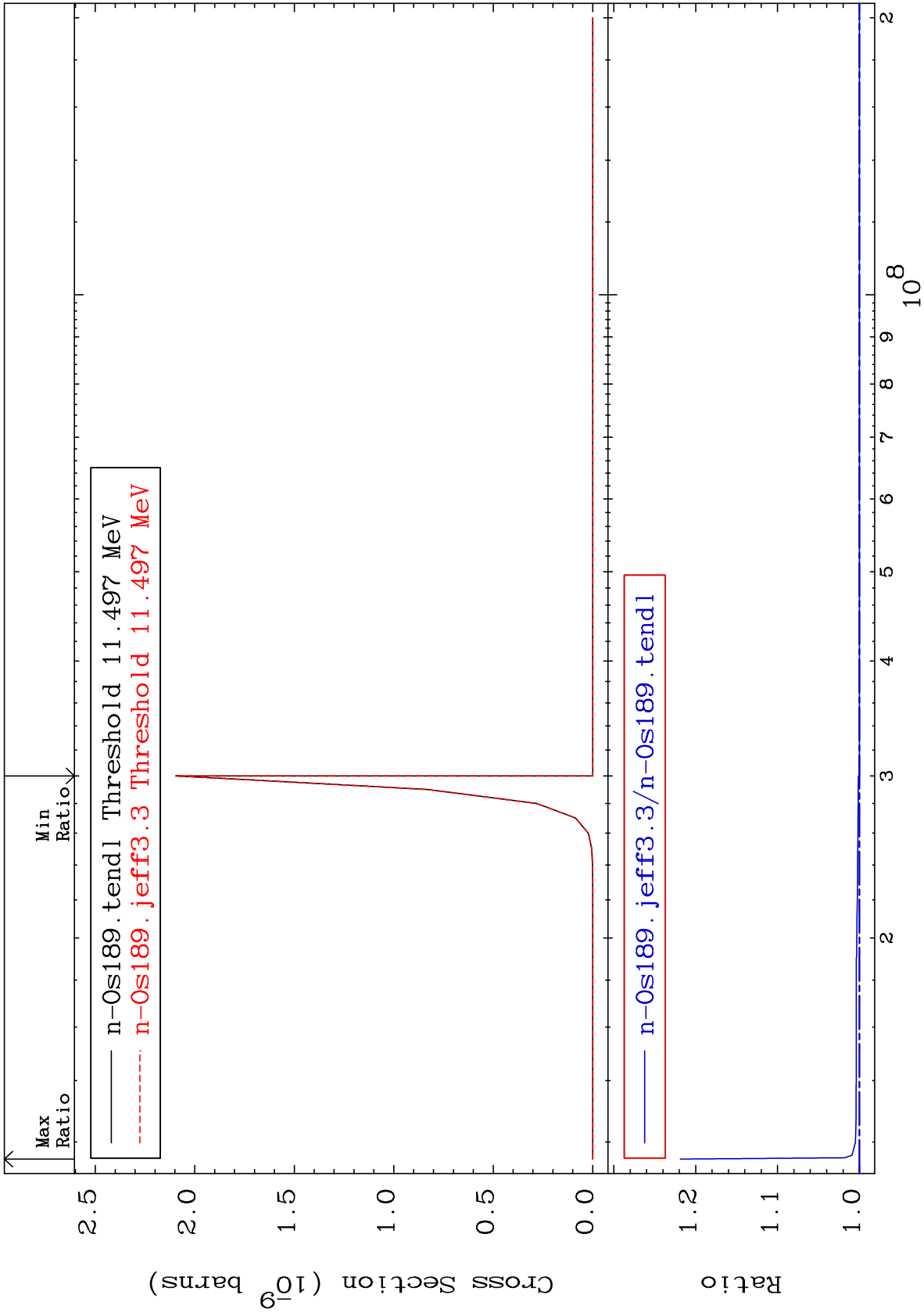
76-0s-189
To 9999. %

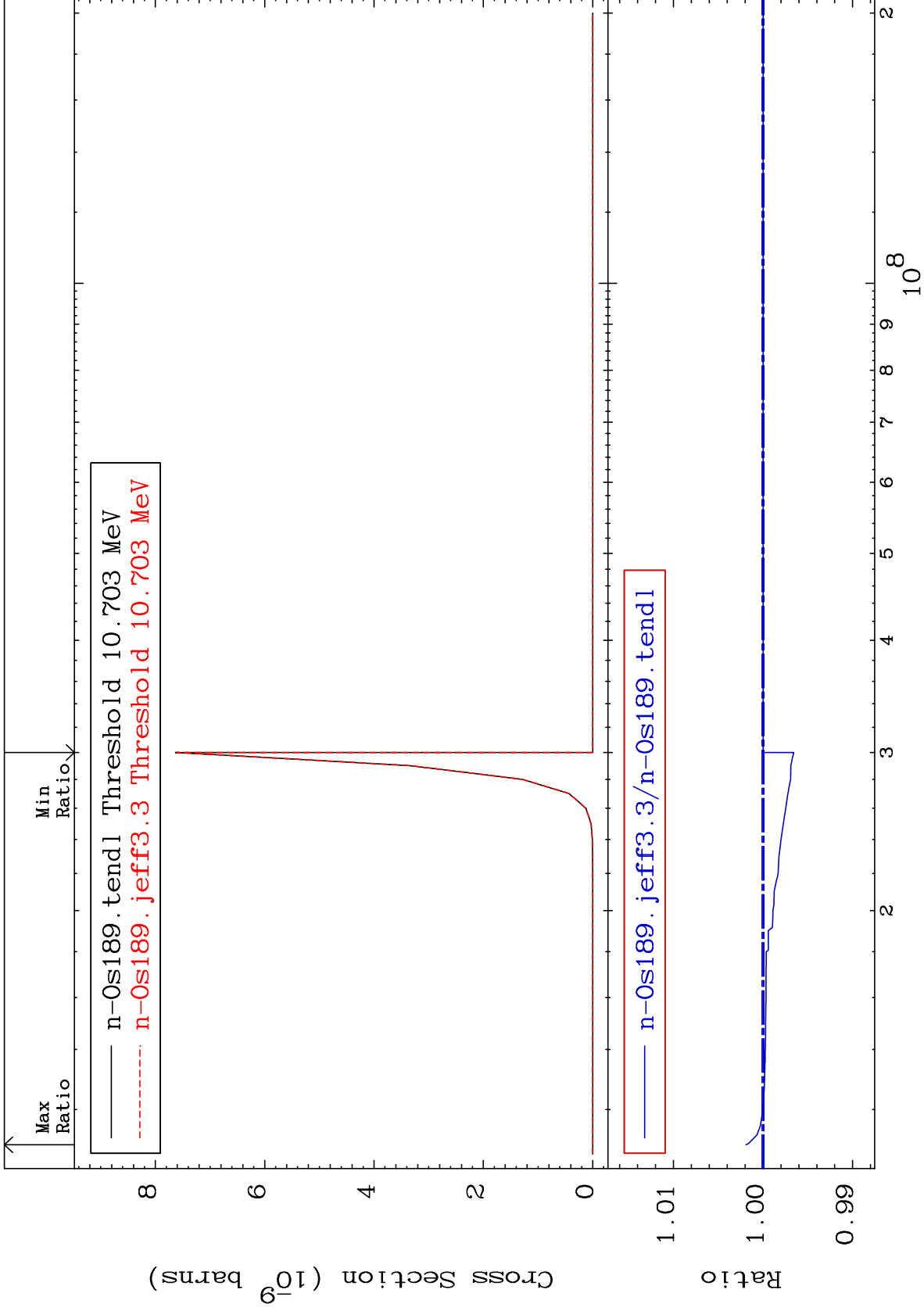


Cross Section

0.000

To 21.88 %

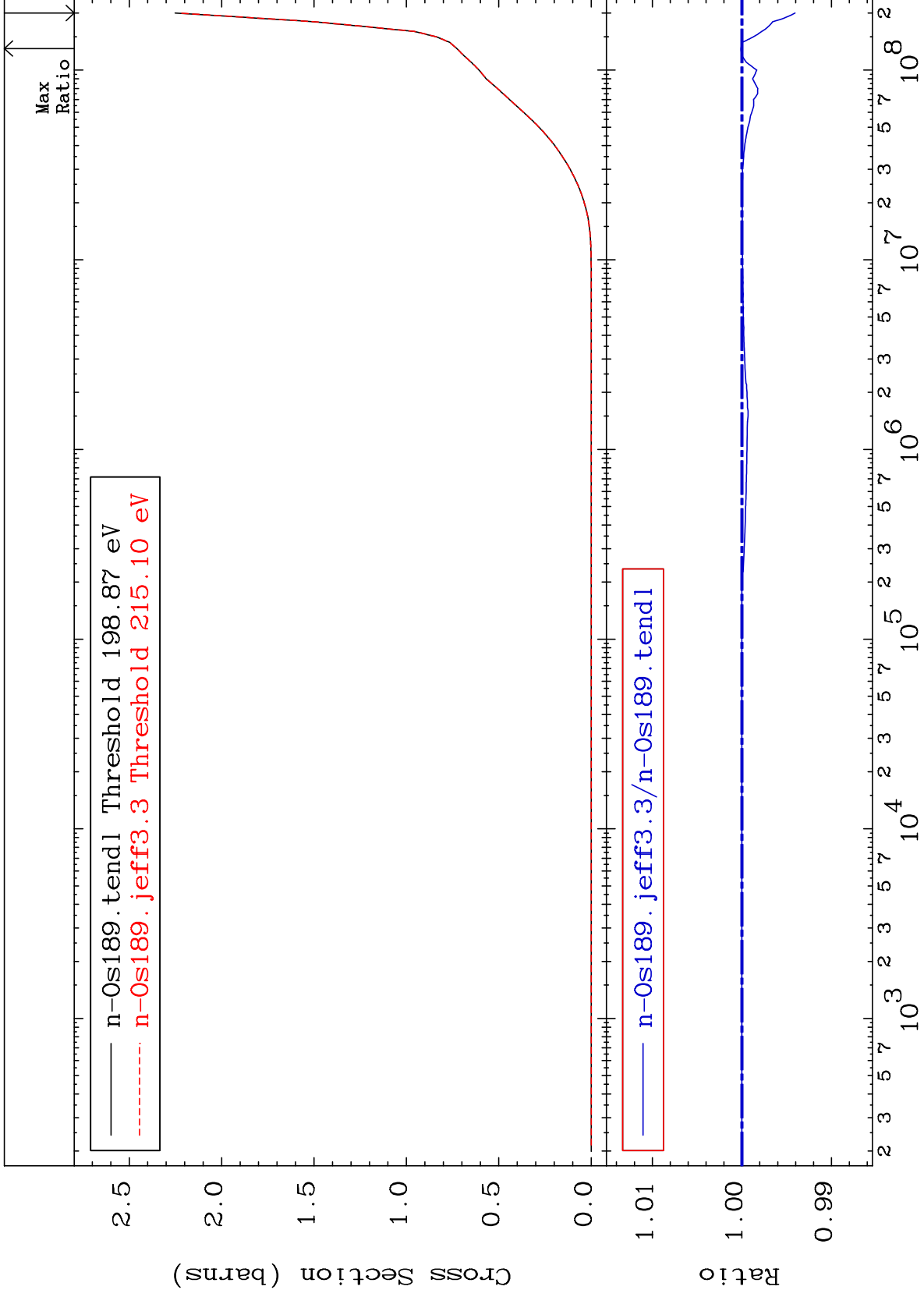




MAT 7640

Hydrogen Production
Cross Section

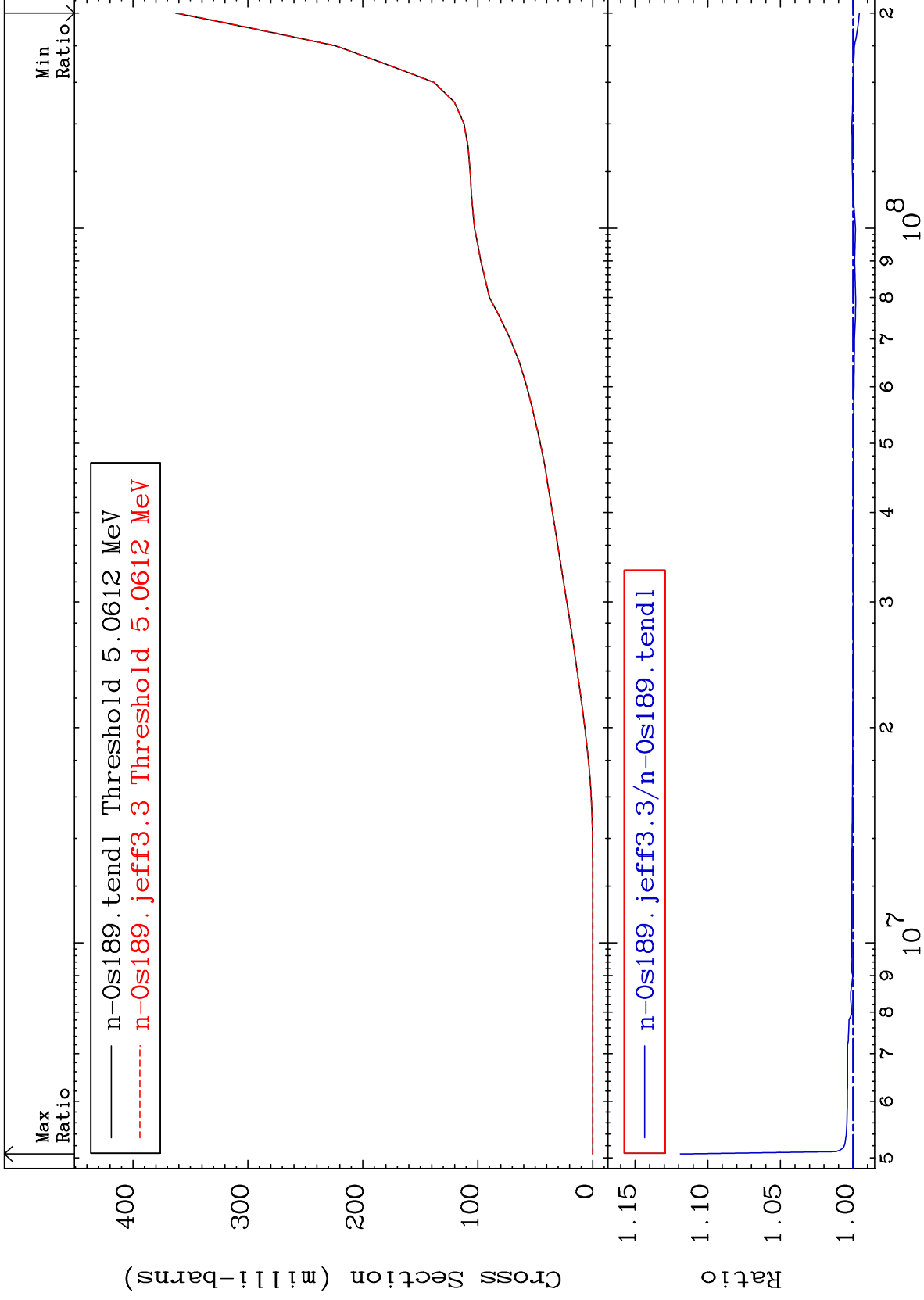
76-0s-189
-0.593 To 0.011 %



MAT 7640

Deuterium Production
Cross Section

76-0s-189
-0.437 To 11.89 %



35

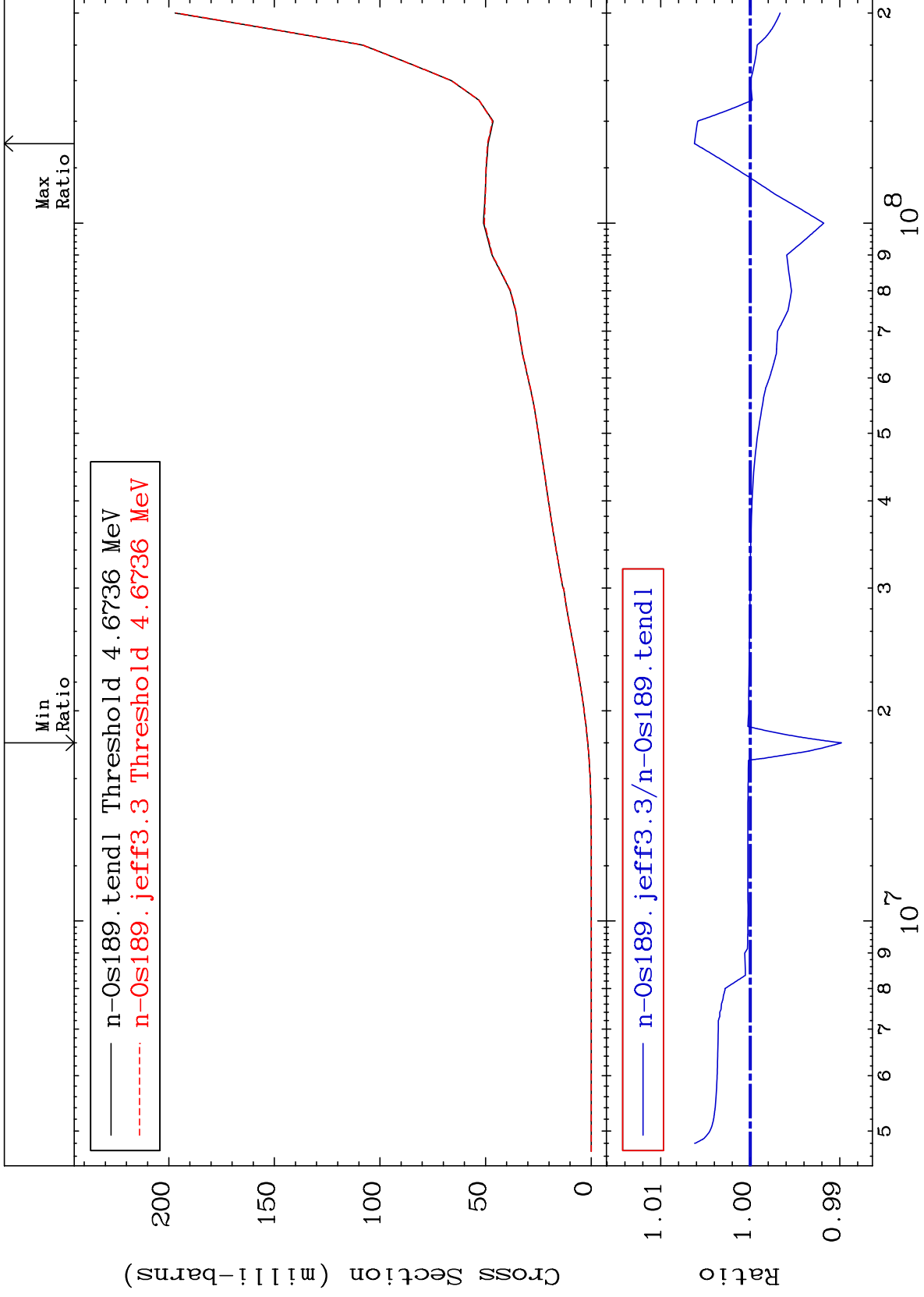
Incident Energy (eV)

76-0s-189

MAT 7640

Tritium Production
Cross Section

76-0s-189
-1.019 To 0.623 %



36

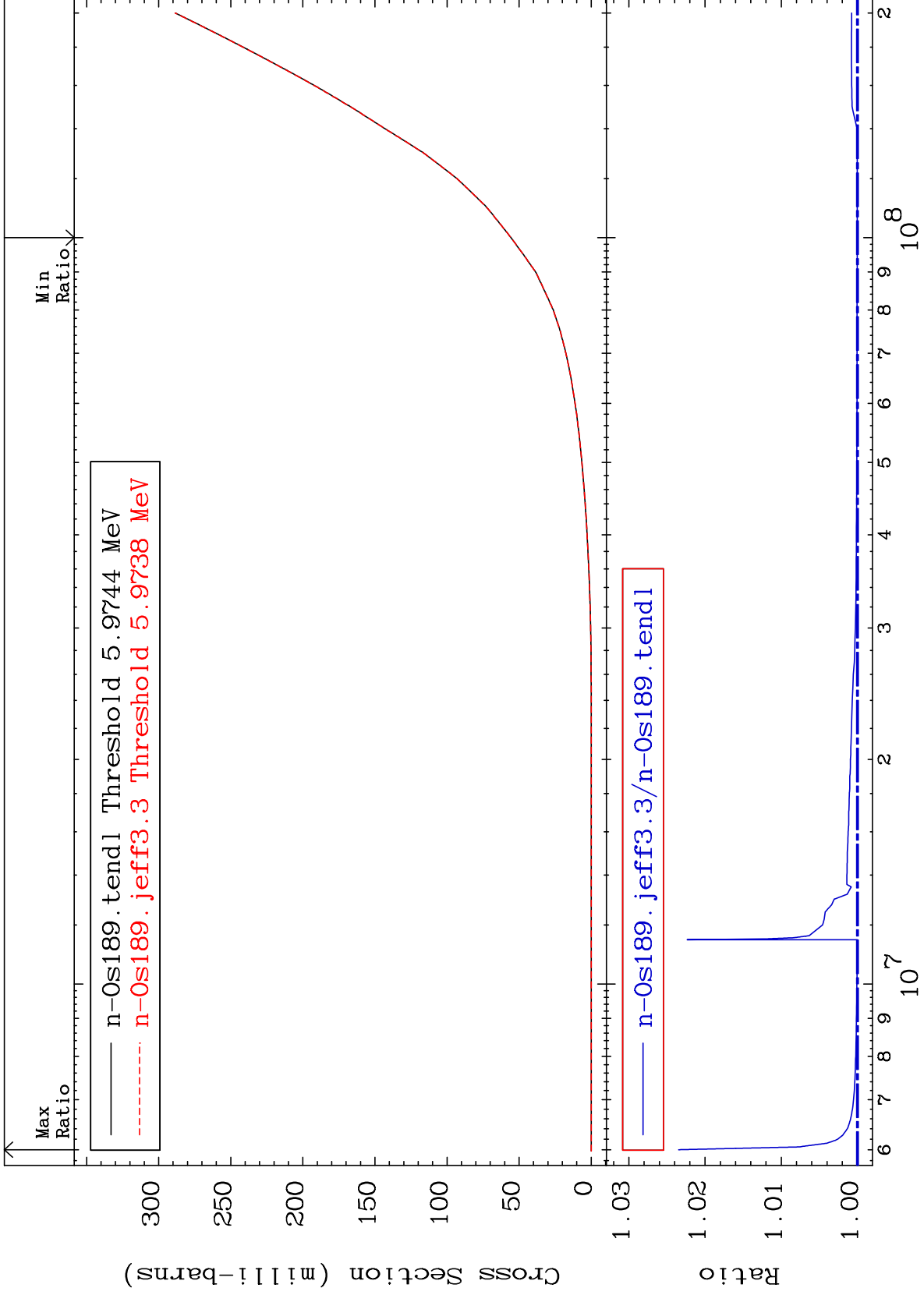
Incident Energy (eV)

76-0s-189

MAT 7640

He-3 Production
Cross Section

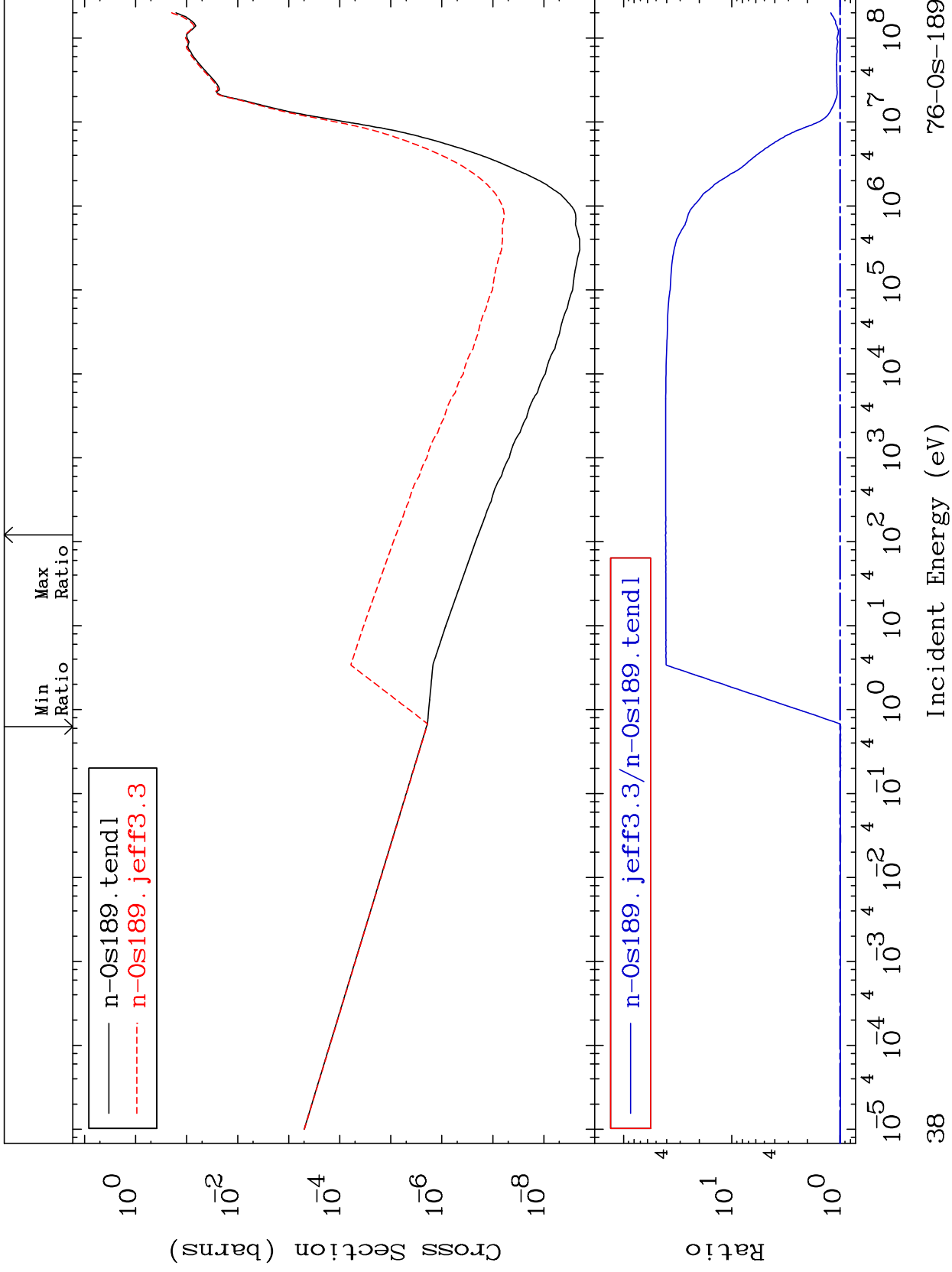
76-0s-189
To 2.347 %

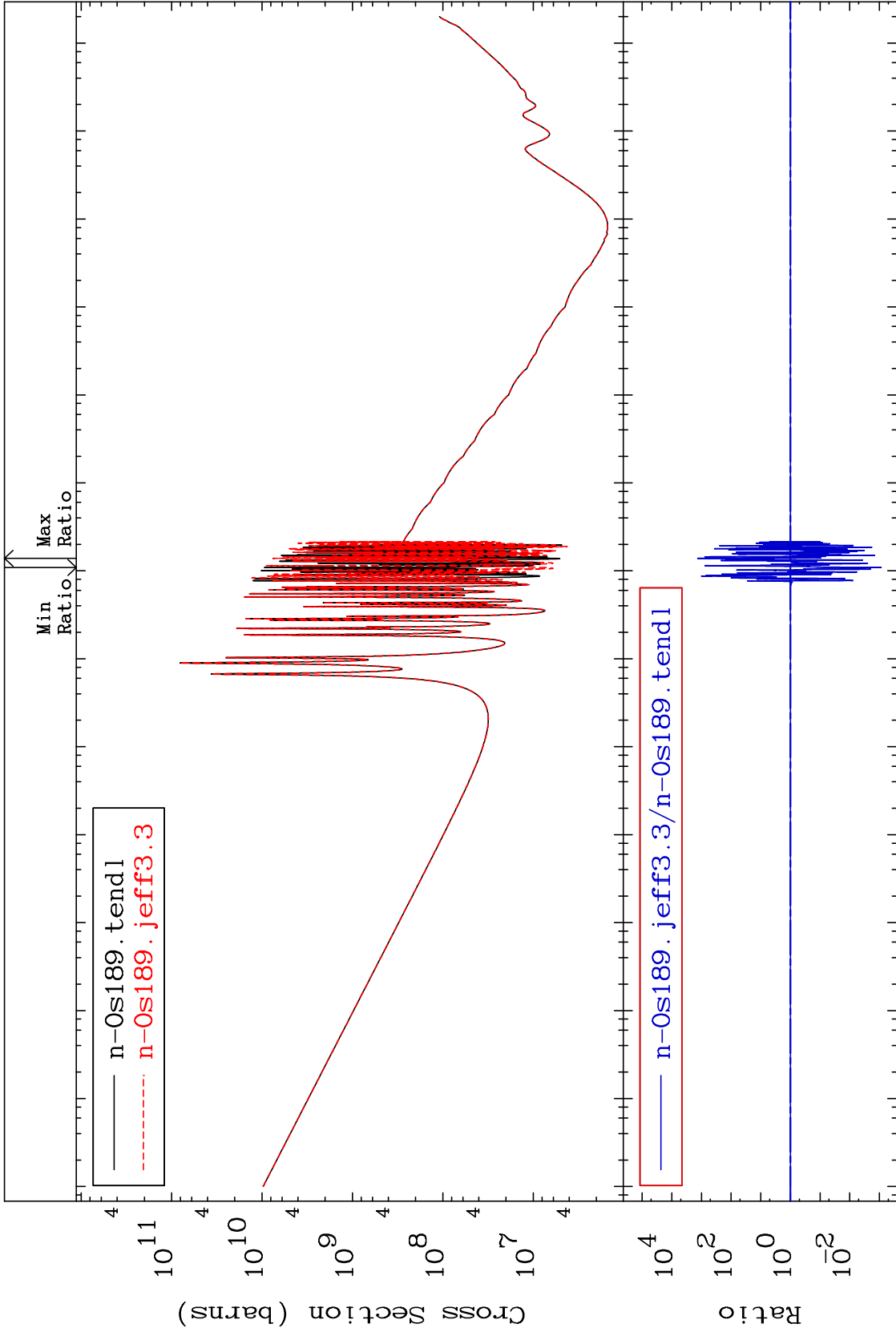


MAT 7640

He-4 Production
Cross Section

76-0s-189
-1.308 To 3997. %

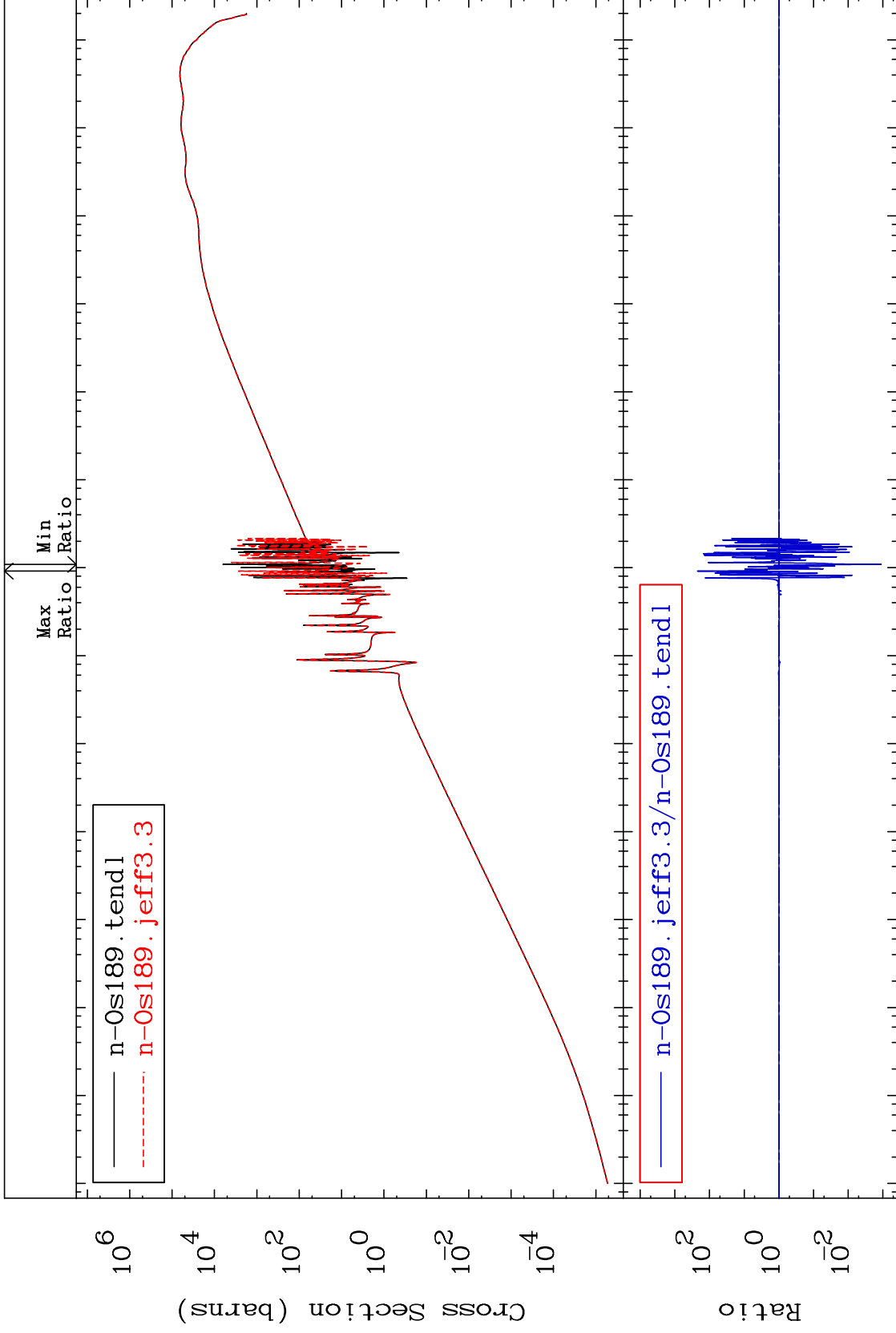




MAT 7640

Kerma elastic
Cross Section

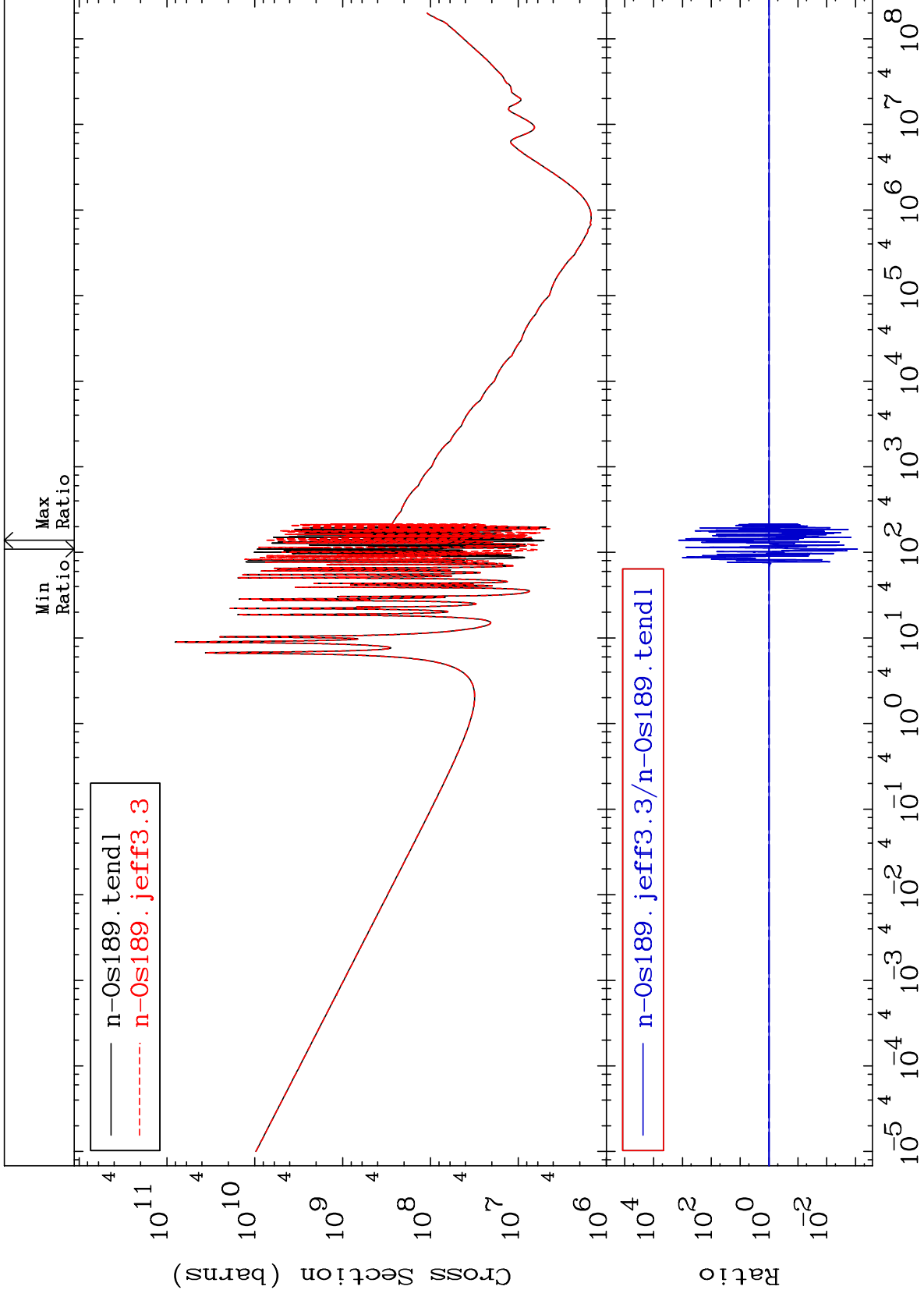
76-0s-189
-99.89 To 9999. %

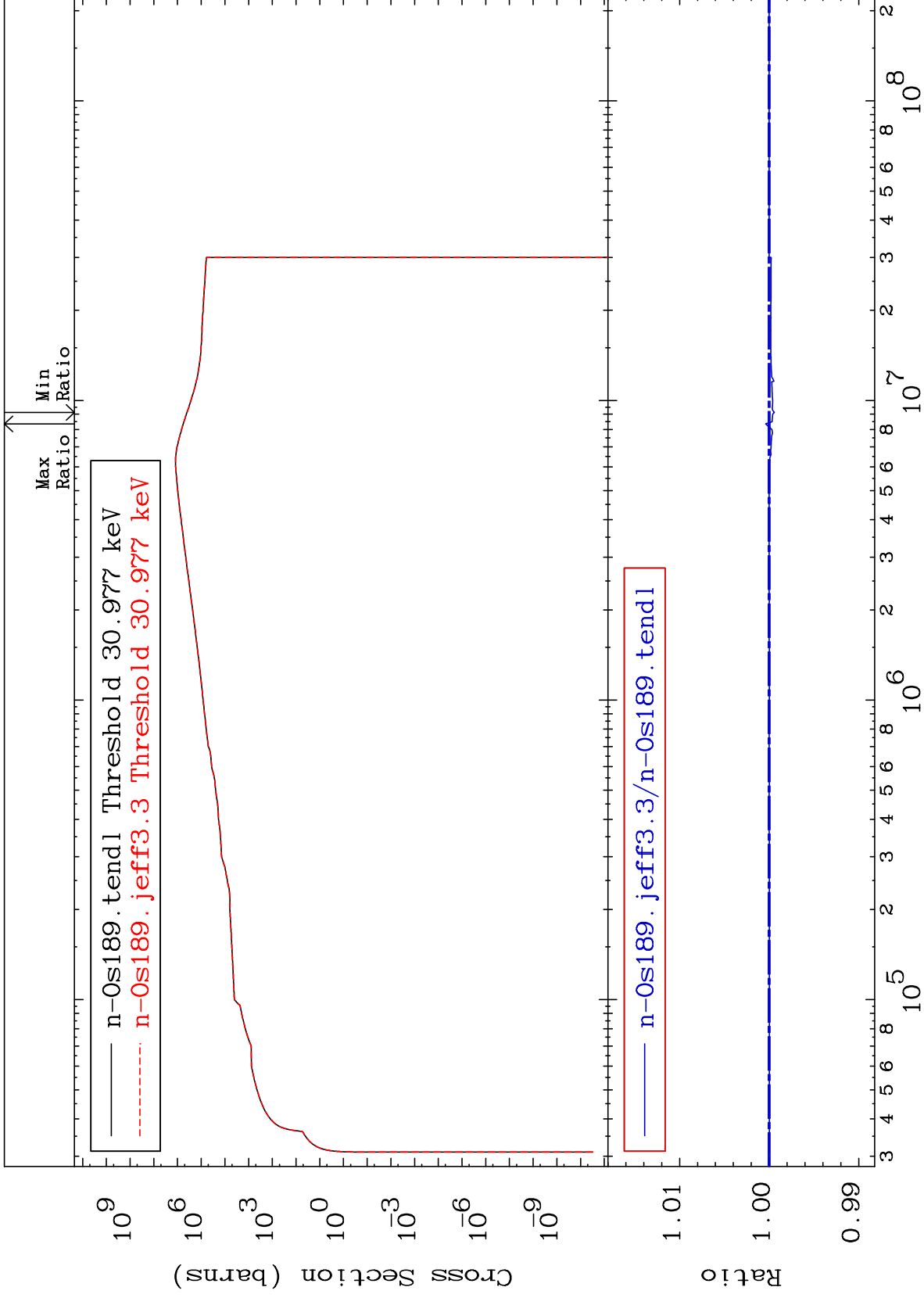


Incident Energy (eV)

76-0s-189

40

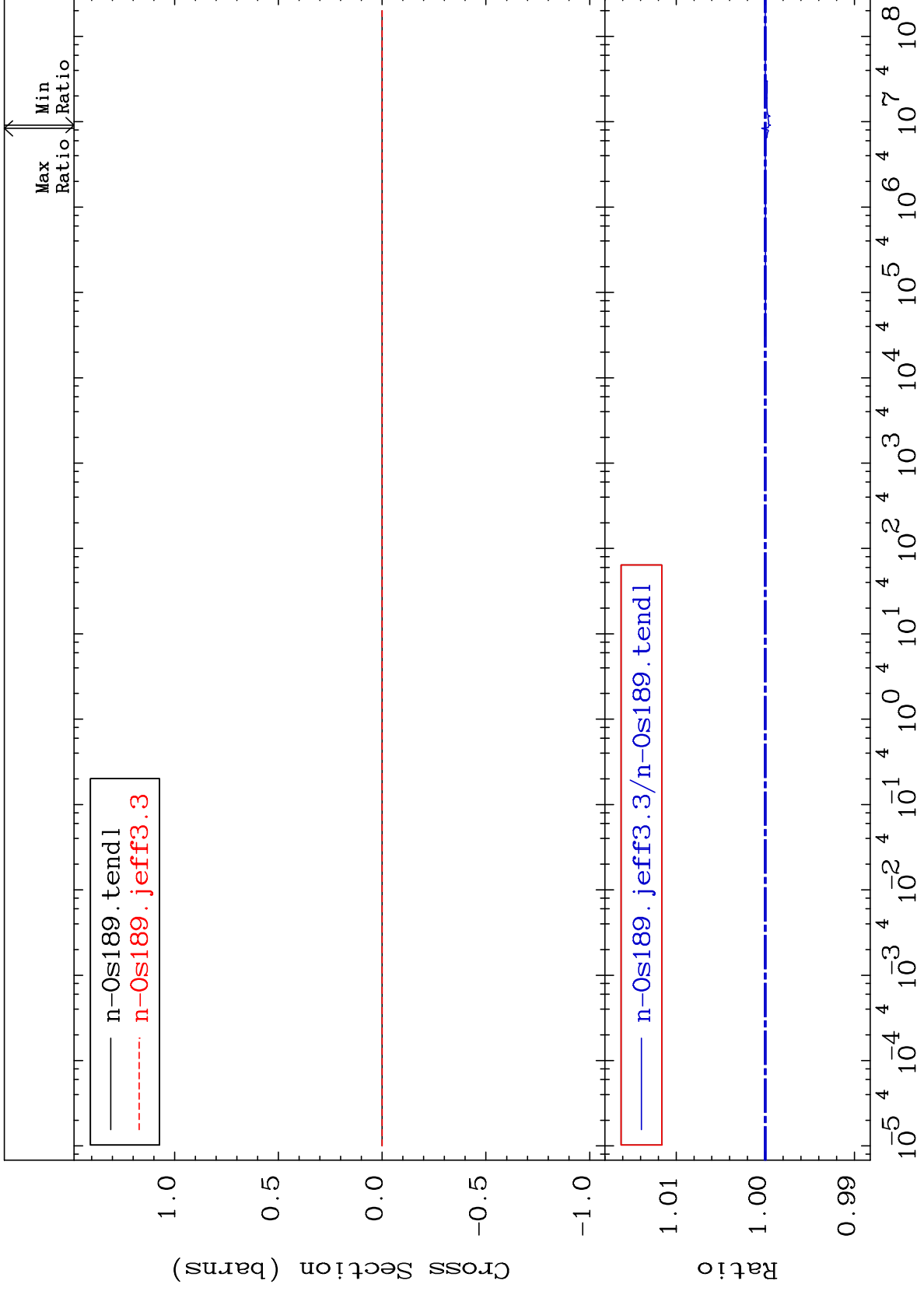


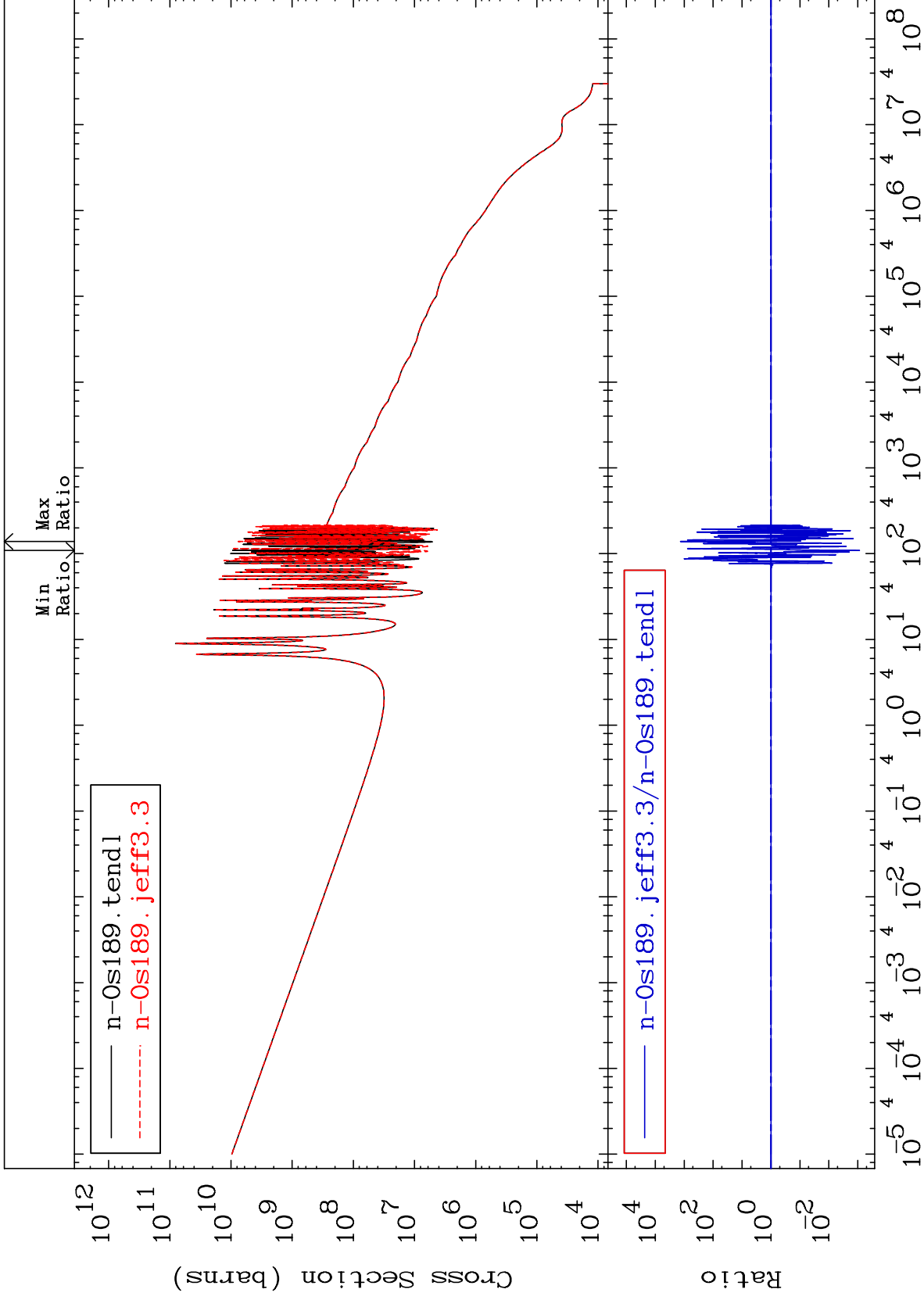


MAT 7640

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

76-0s-189
-0.057 To 0.041 %





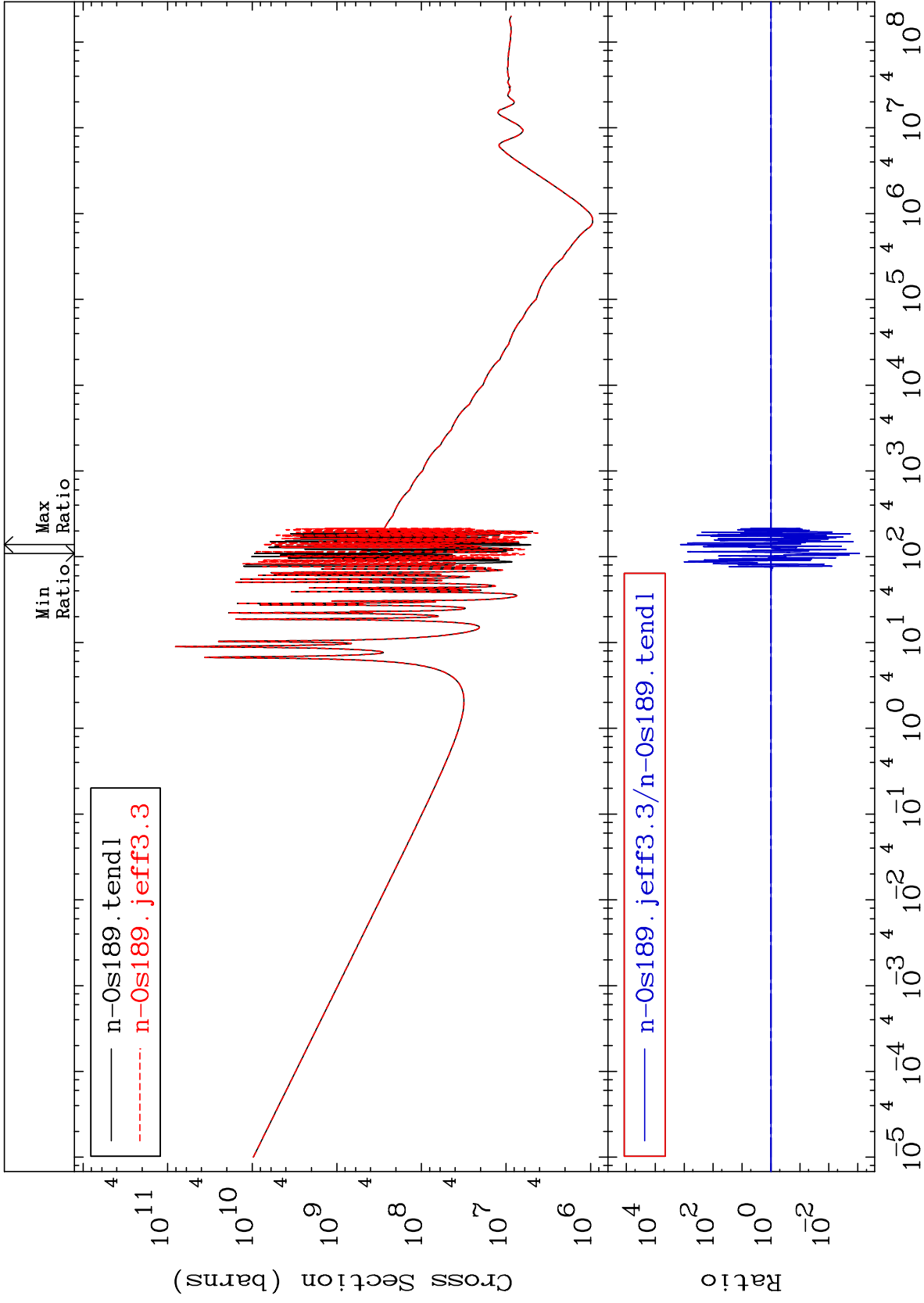
MAT 7640

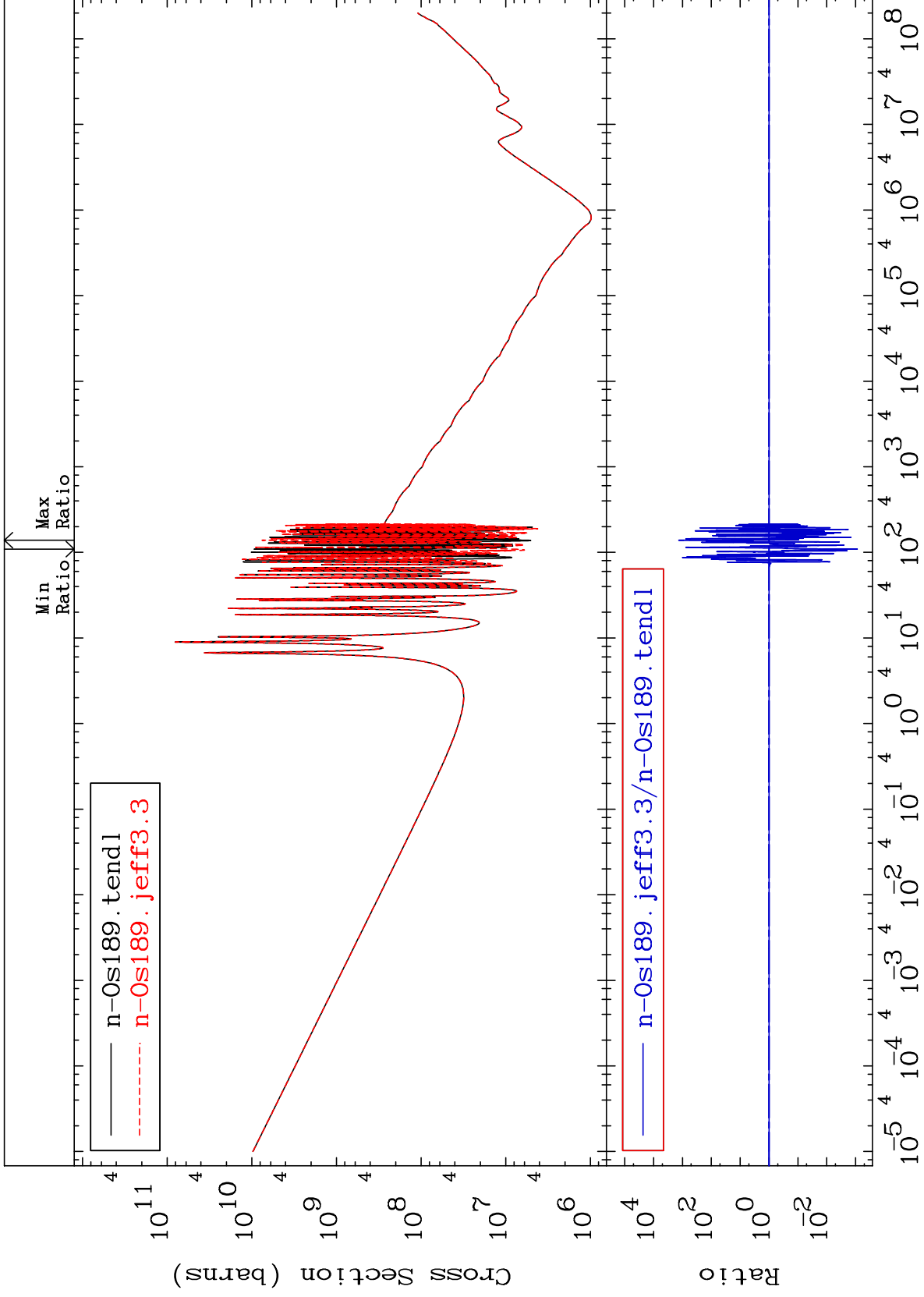
Total photon (eV-barns)

76-0s-189

Cross Section

-99.91 To 9999. %

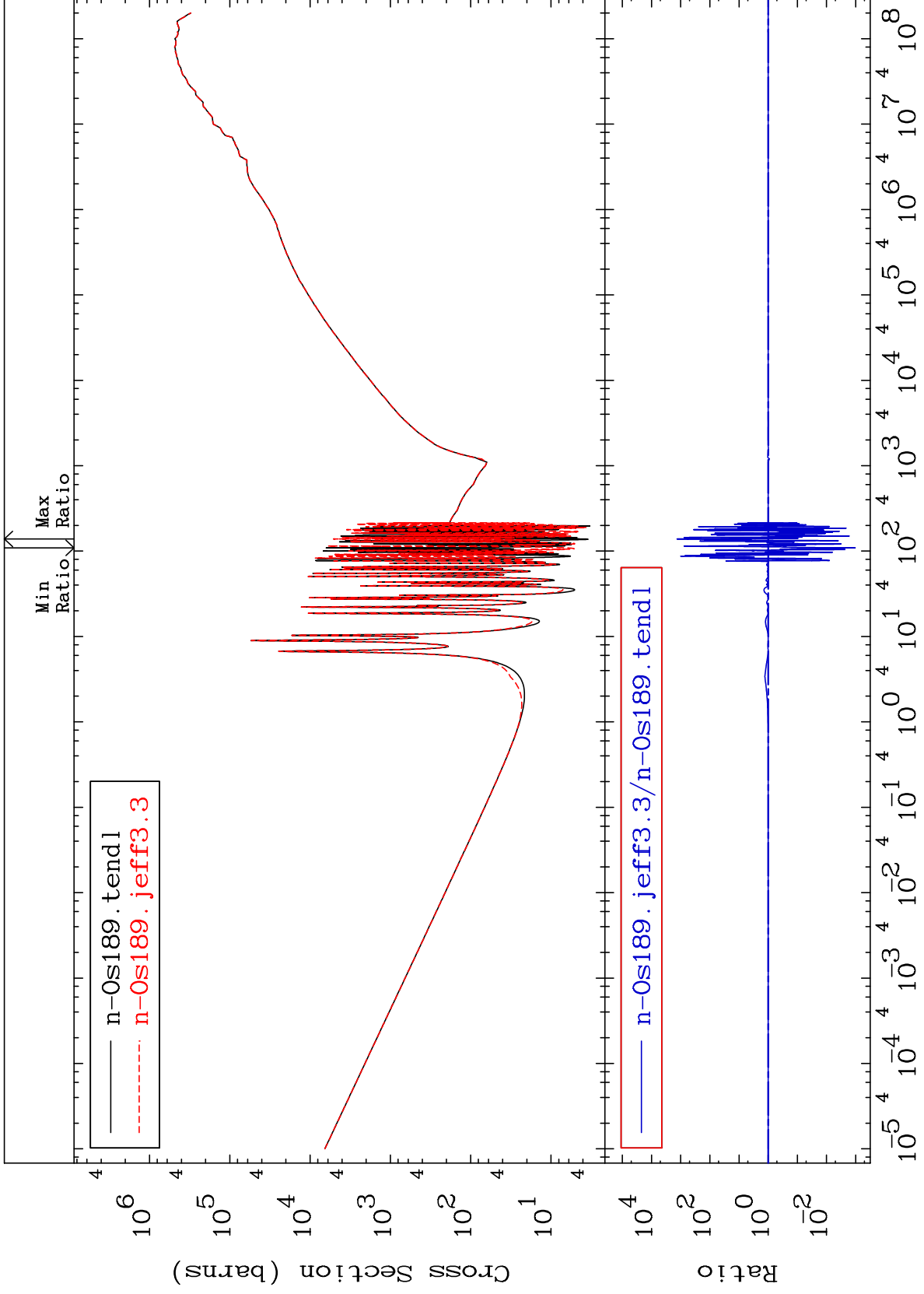


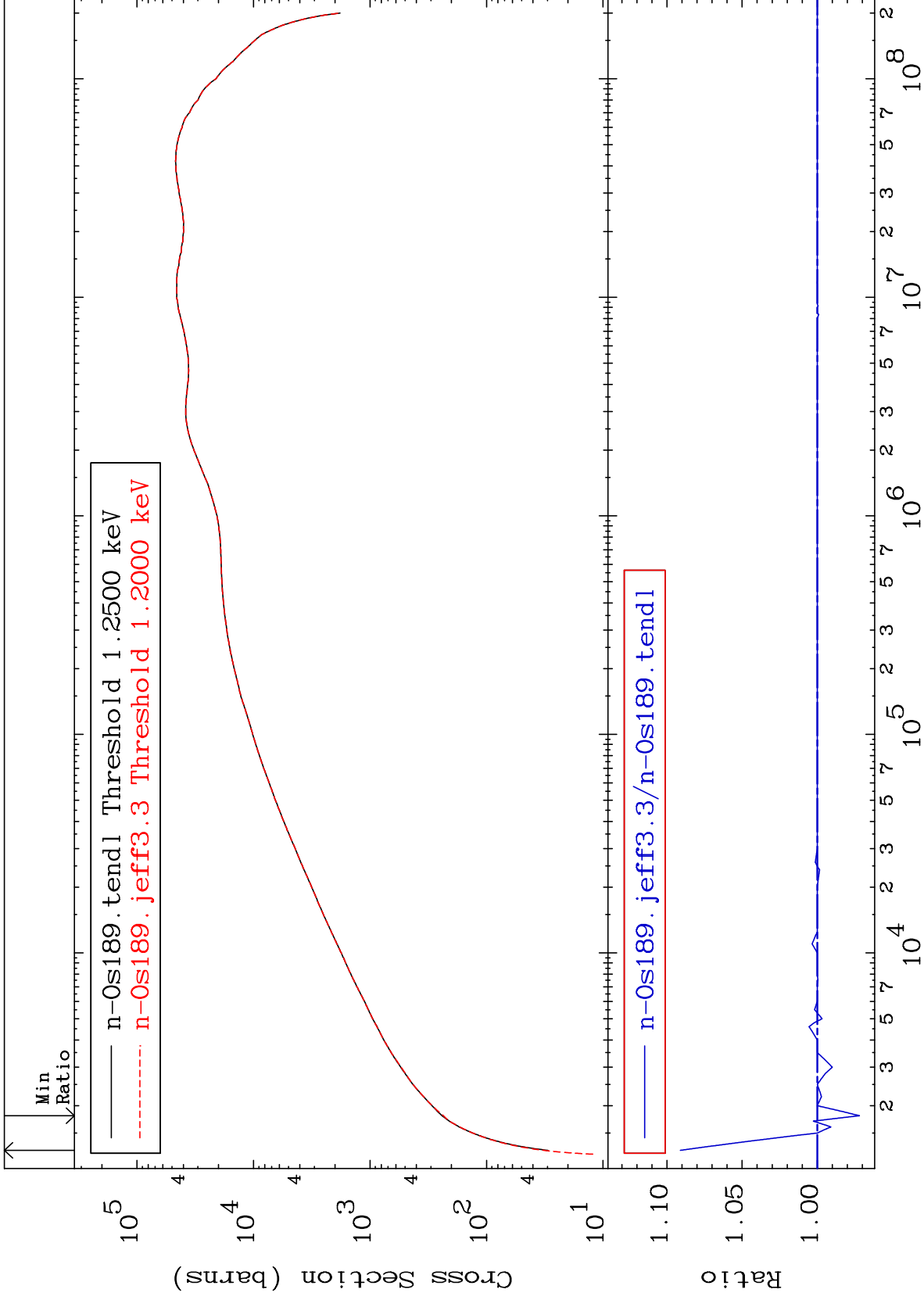


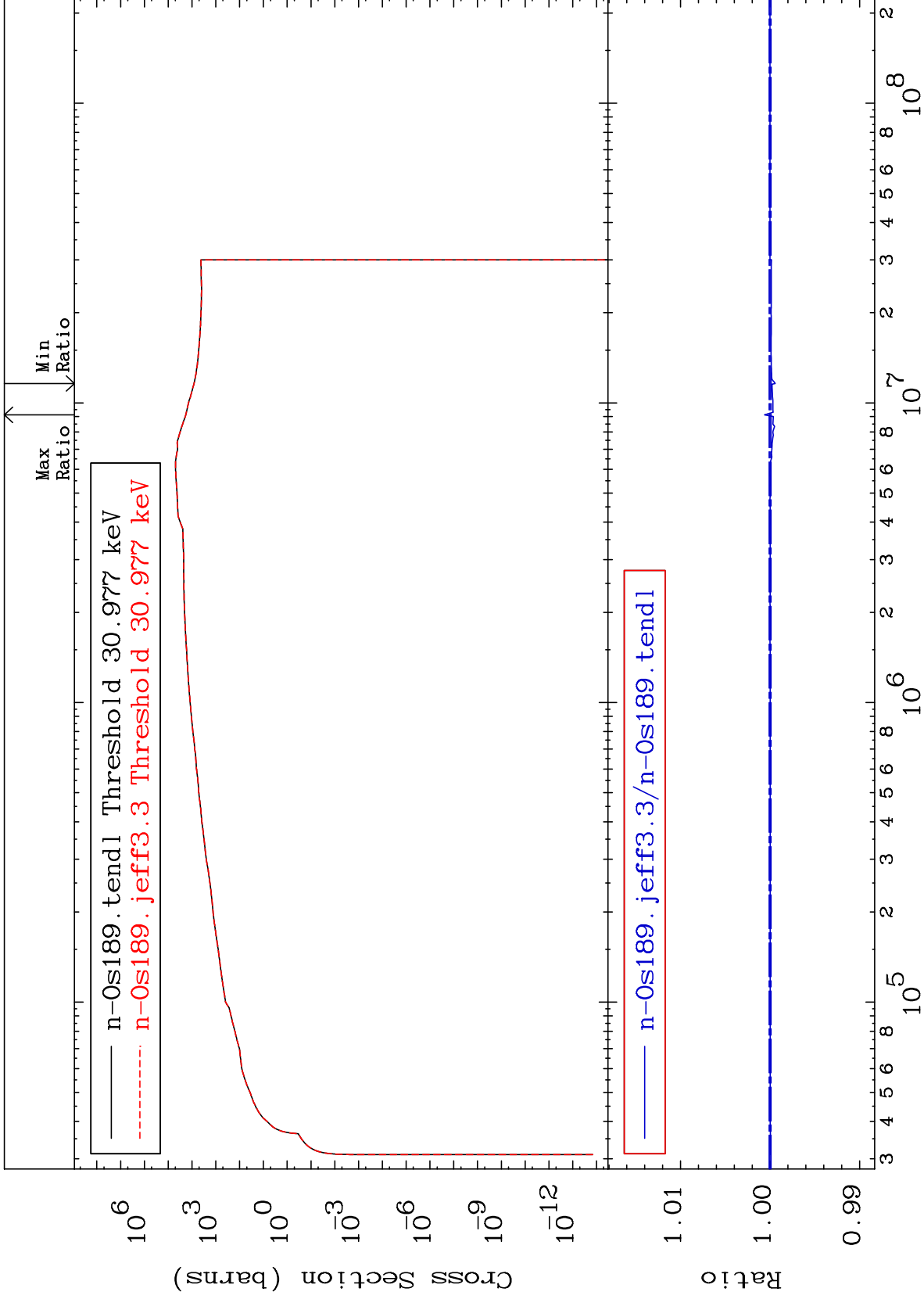
MAT 7640

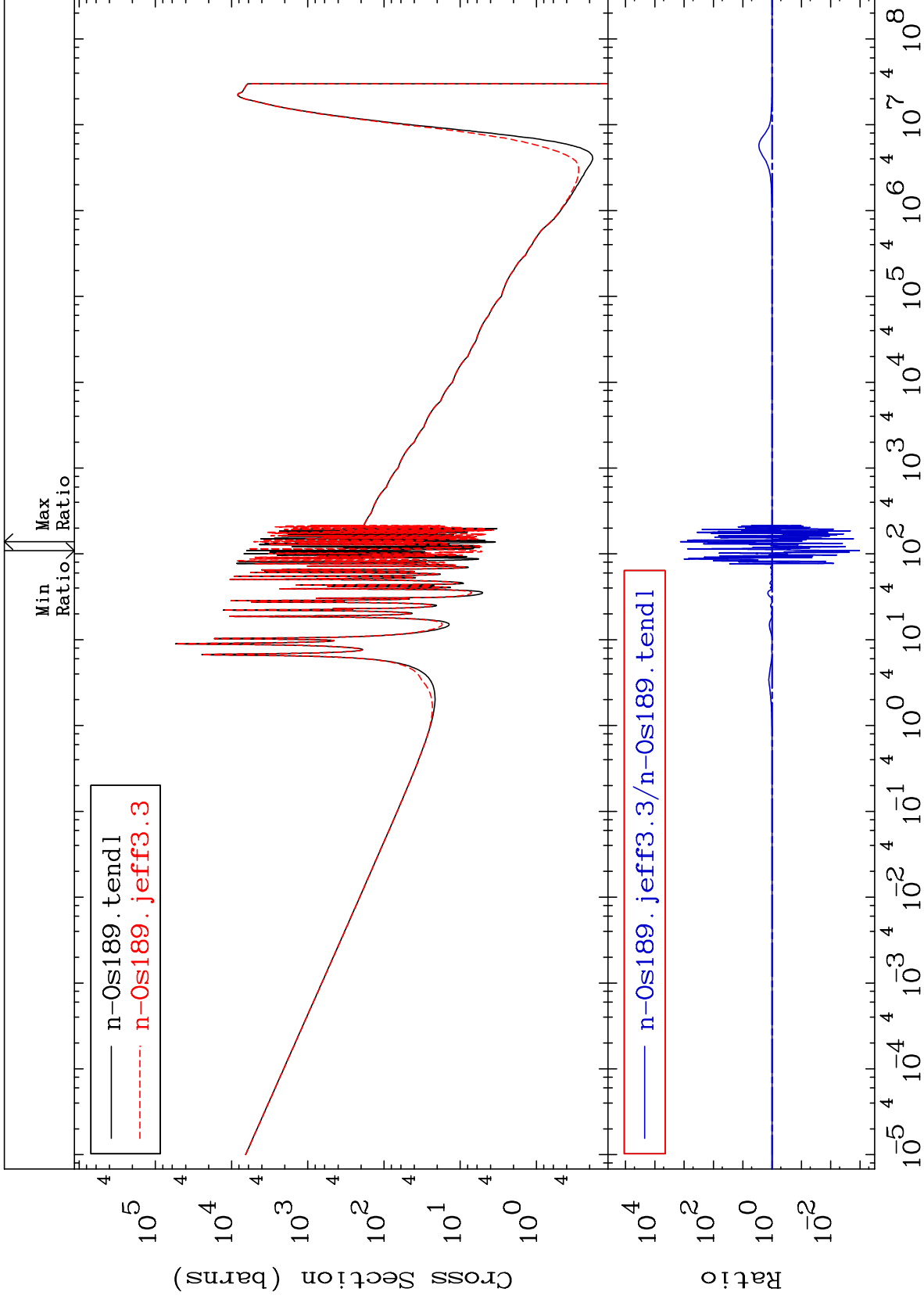
Dpa total (eV-barns)
Cross Section

76-0s-189
-99.90 To 9999. %









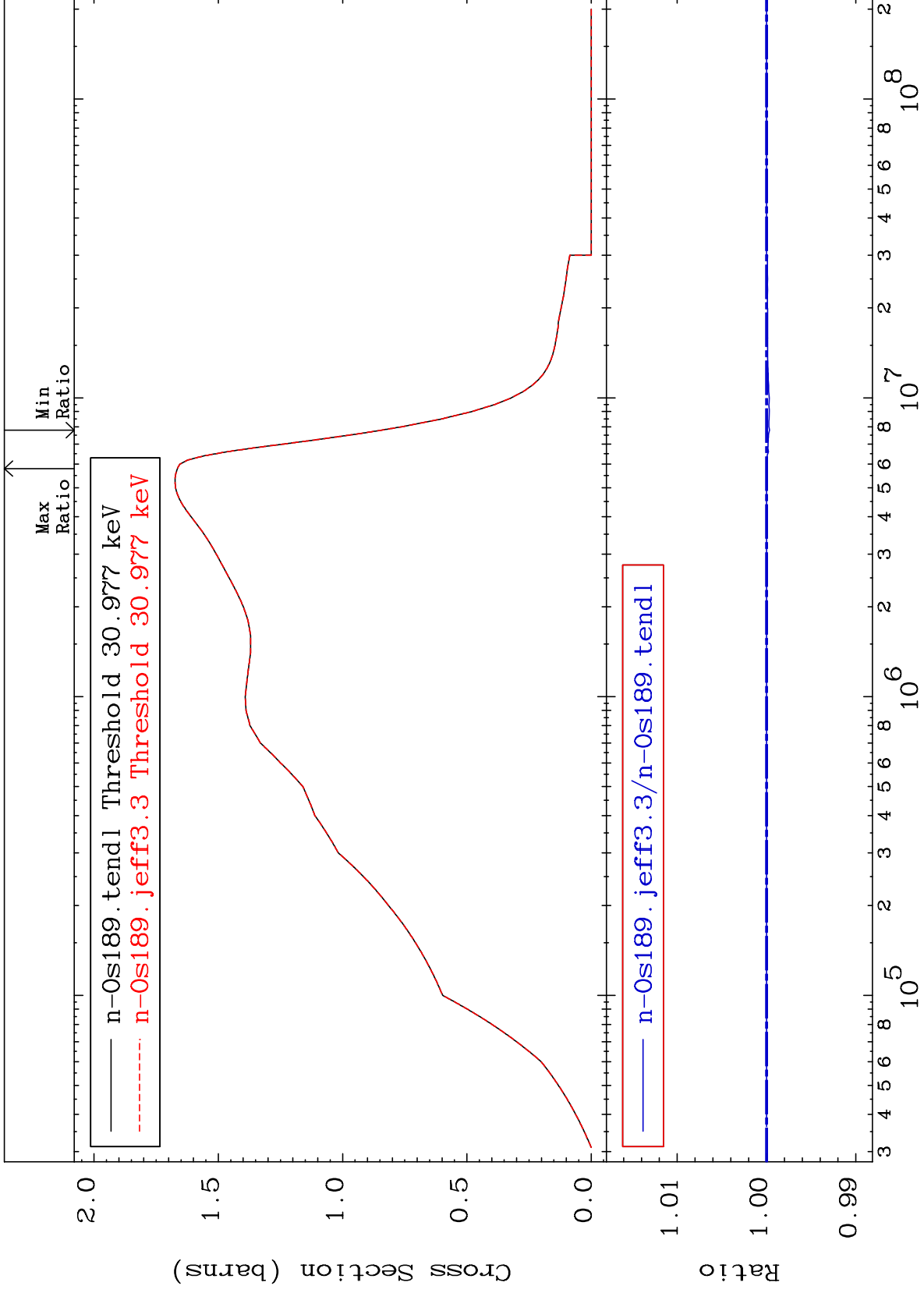
MAT 7640

Inelastic: 76-0s-189g

76-0s-189

Radionuclide Production Cross Section

-0.033 To 0.002 %



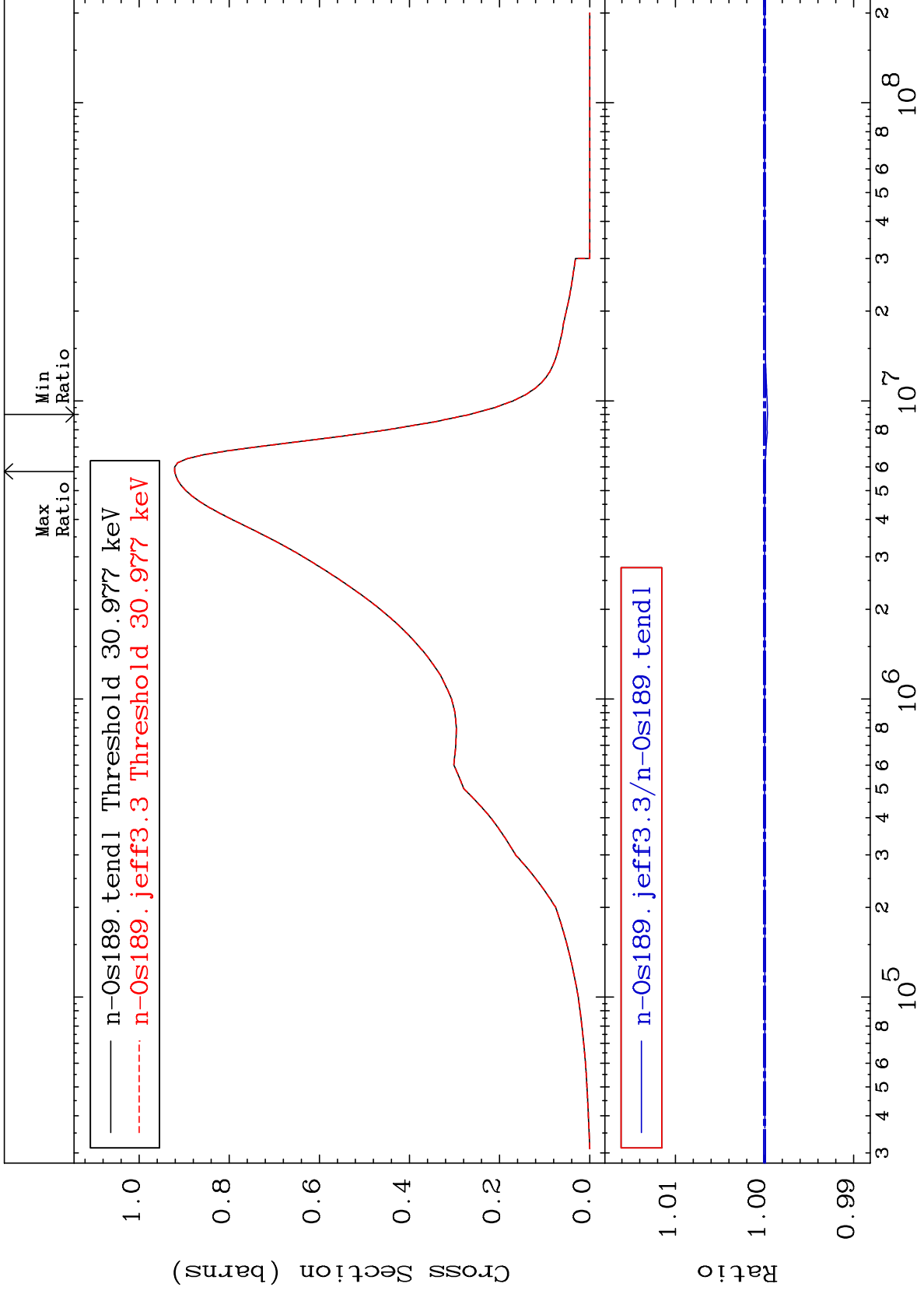
MAT 7640

Inelastic: 76-Os-189m1

76-0s-189

Radionuclide Production Cross Section

-0.033 To 0.000 %

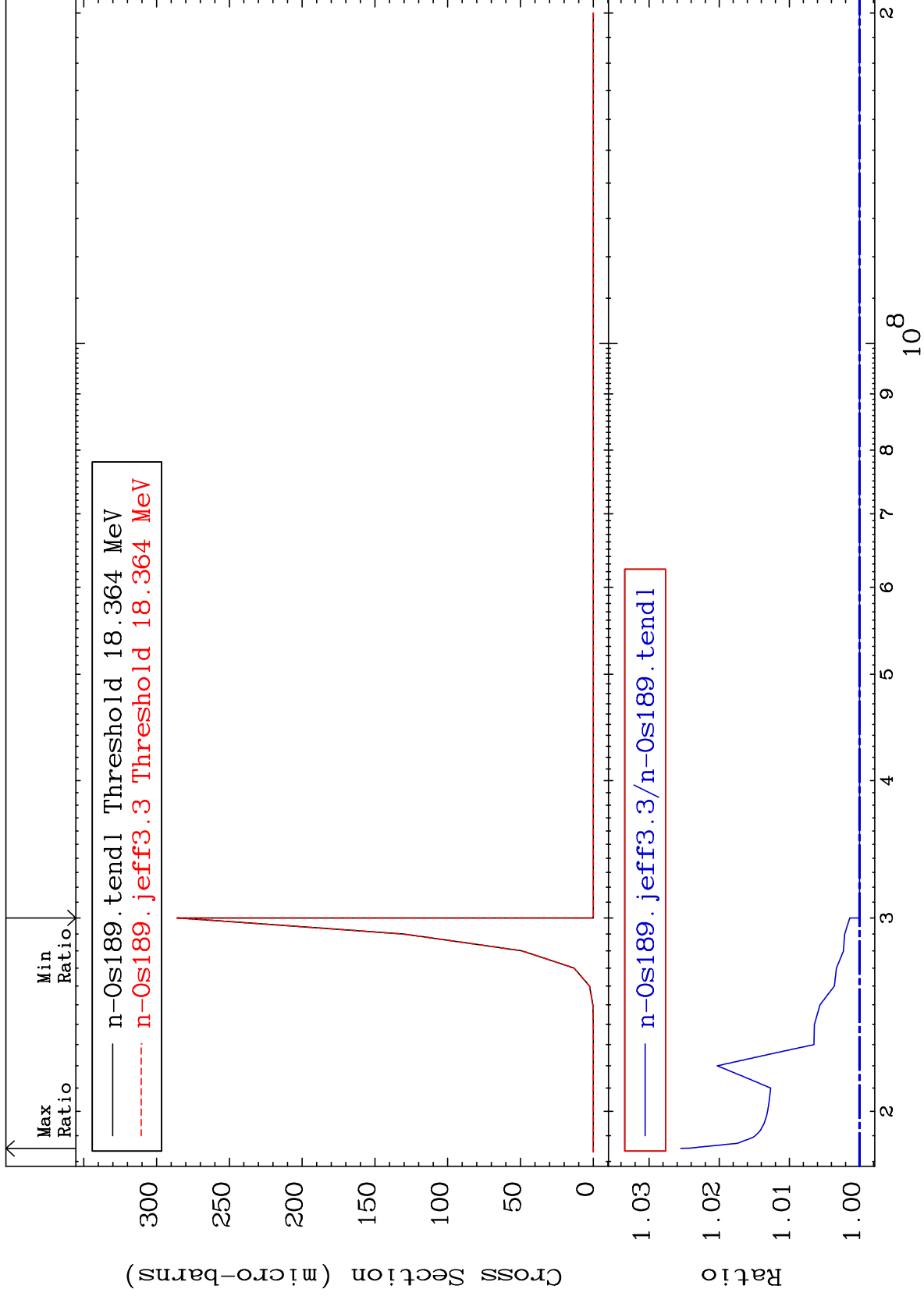


MAT 7640

(n,2n) d:75-Re-186g

76-0s-189

Radionuclide Production Cross Section 0.000 To 2.548 %

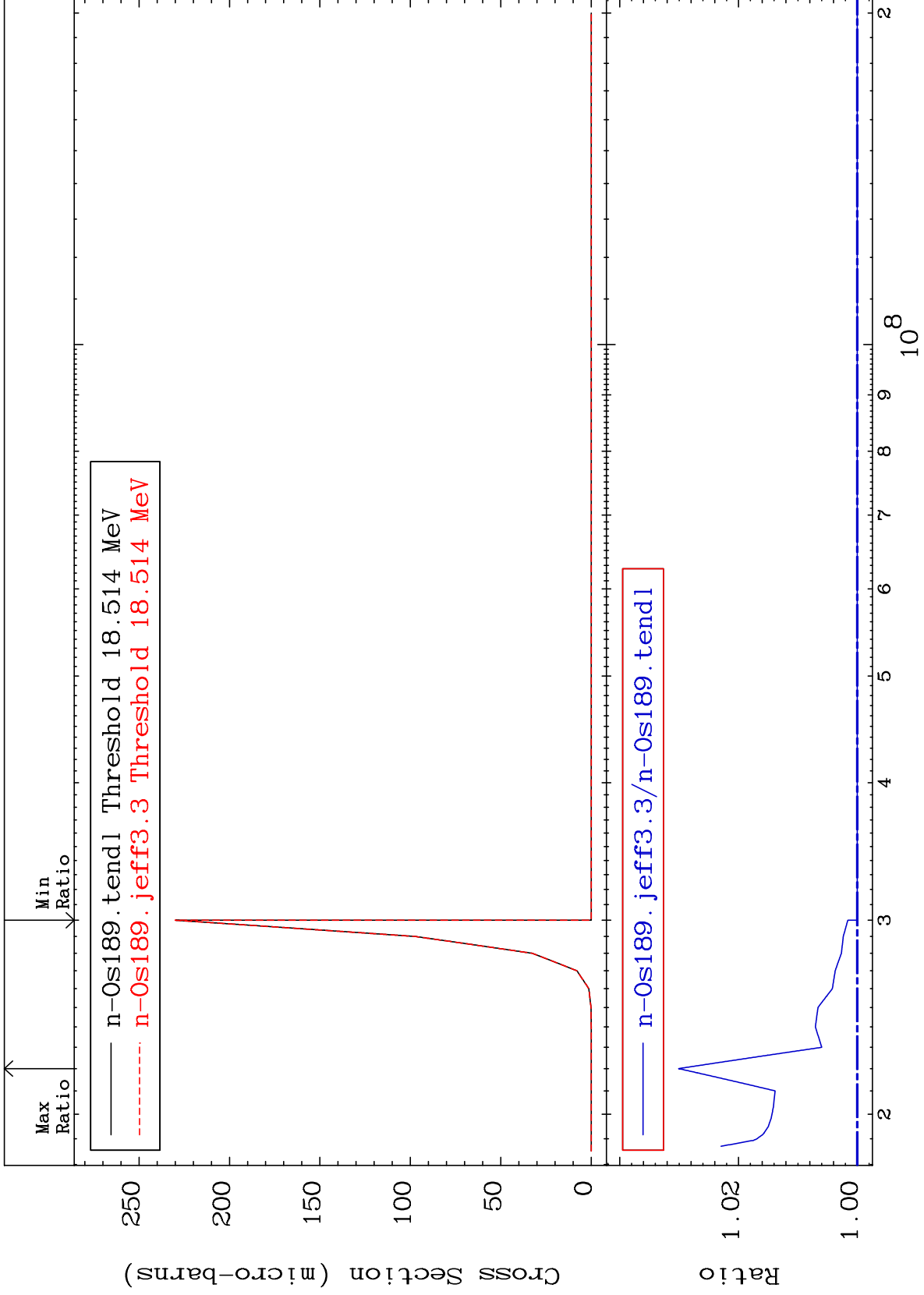


MAT 7640

(n,2n) d:75-Re-186m4

76-0s-189

Radionuclide Production Cross Section 0.000 To 3.008 %



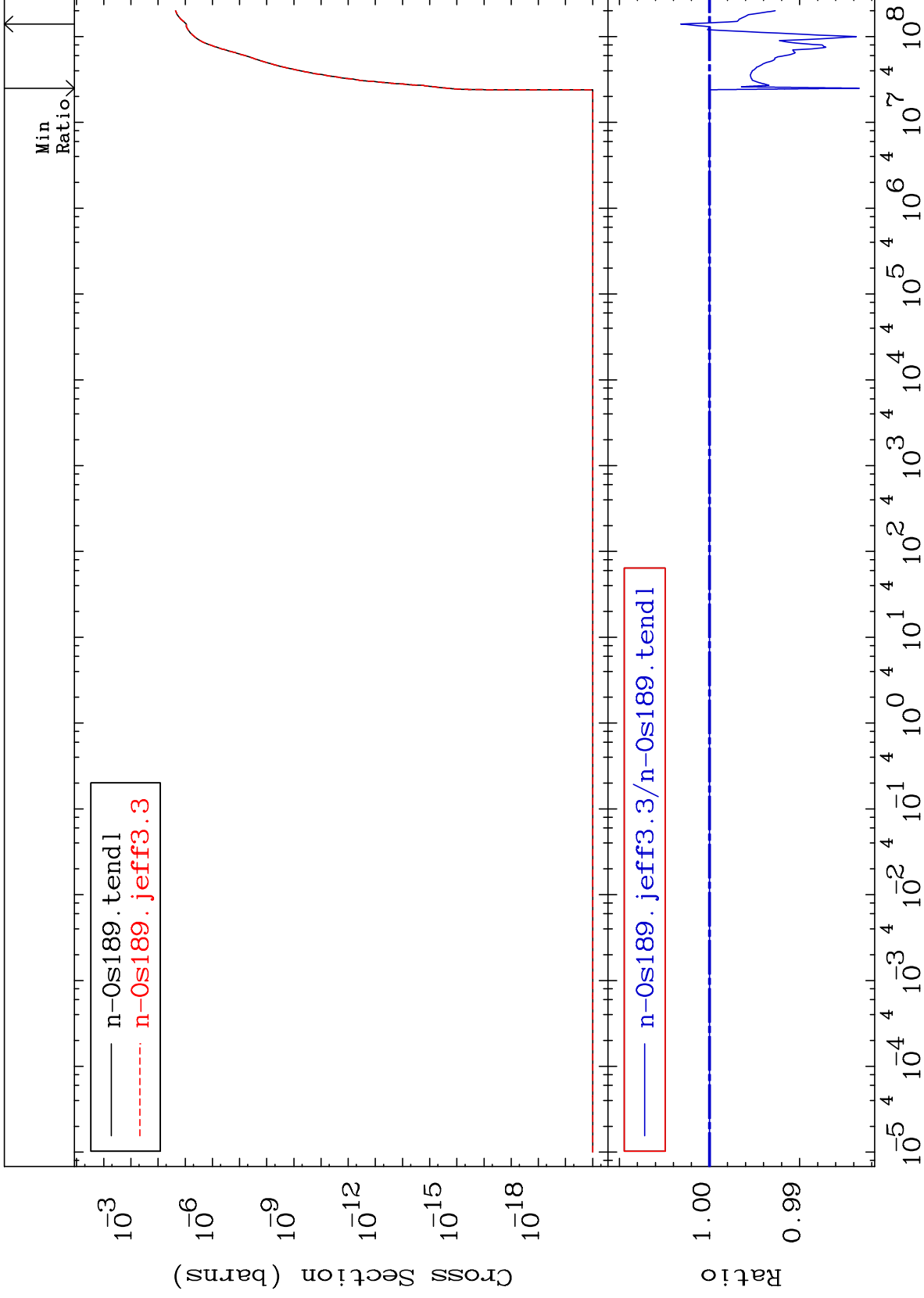
MAT 7640

Fission: Photon

76-0s-189

Radionuclide Production Cross Section

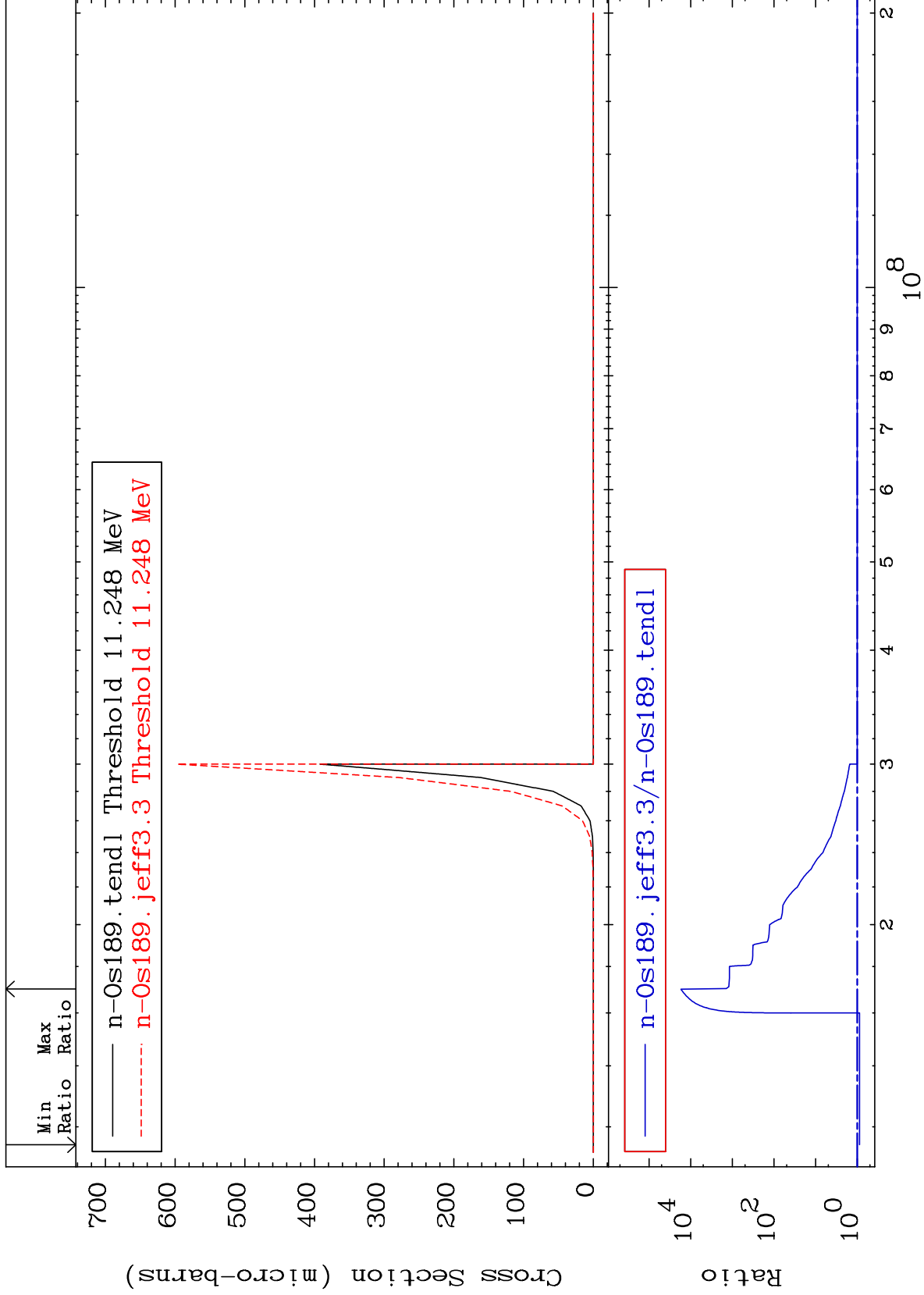
-1.660 To 0.319 %



55

Incident Energy (eV)

76-0s-189

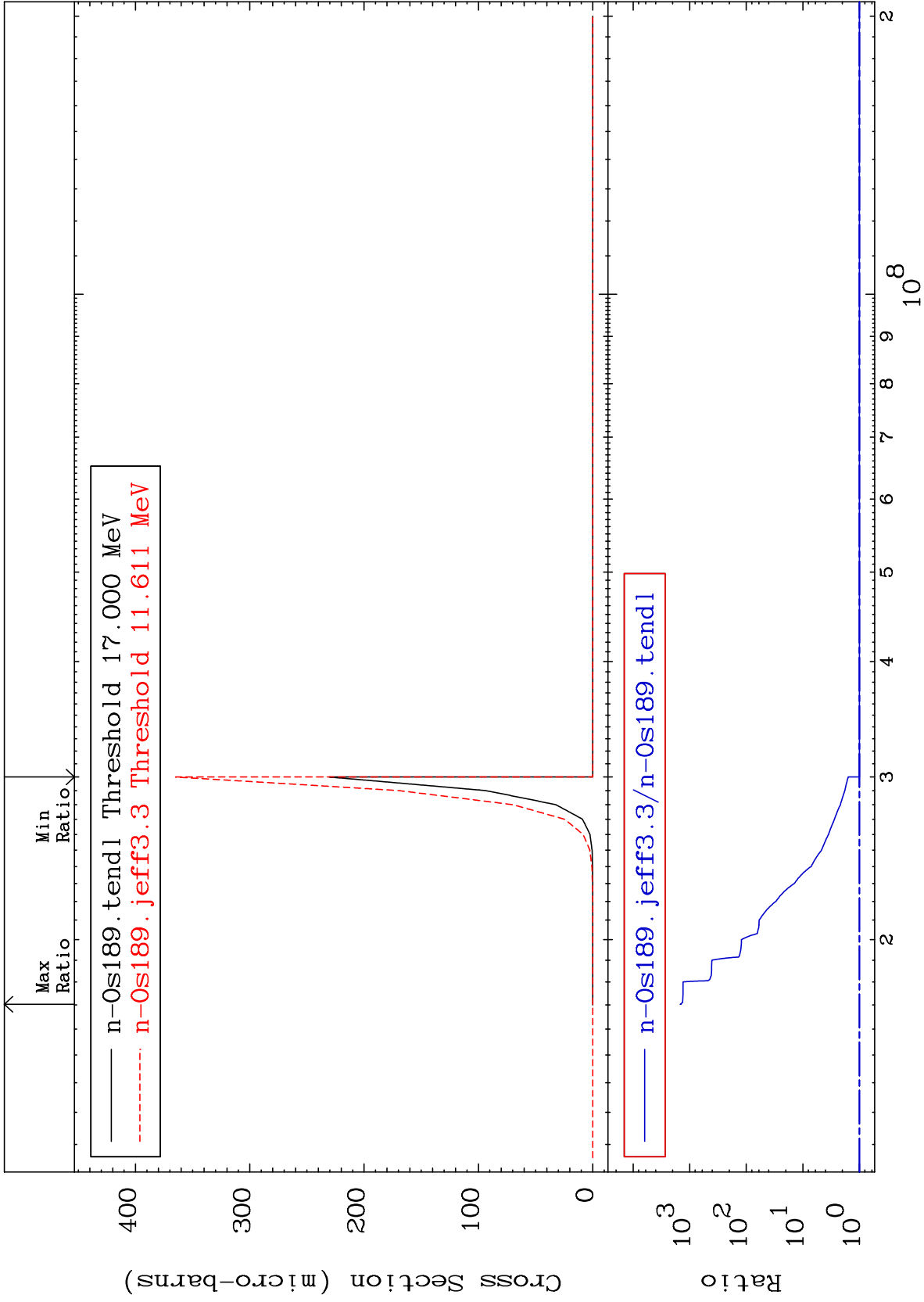


MAT 7640

(n,3n) α :74-W -183m7

76-0s-189

Radionuclide Production Cross Section 0.000 To 9999. %

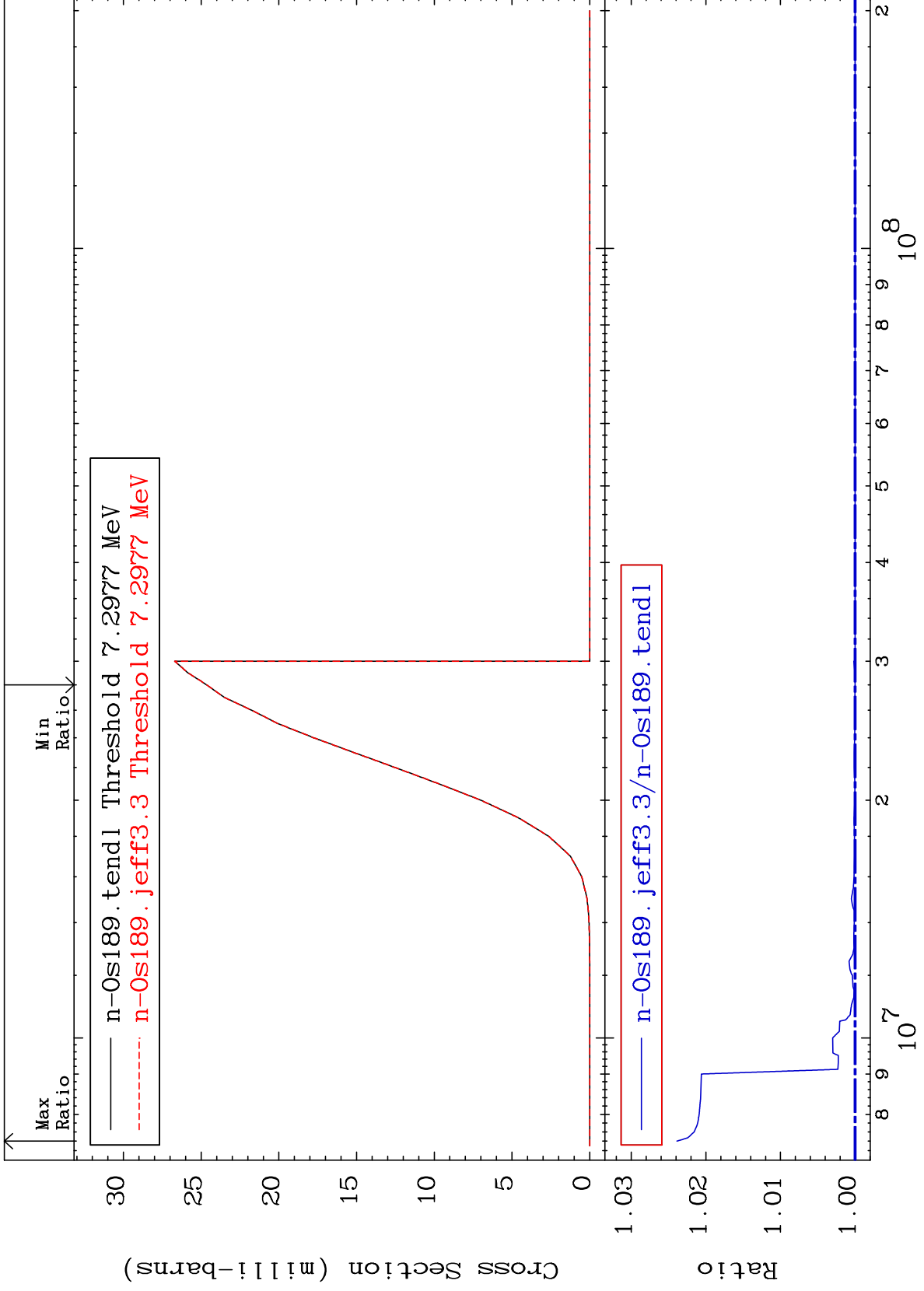


MAT 7640

(n, n') p: 75-Re-188g

76-0s-189

Radionuclide Production Cross Section 0.000 To 2.388 %

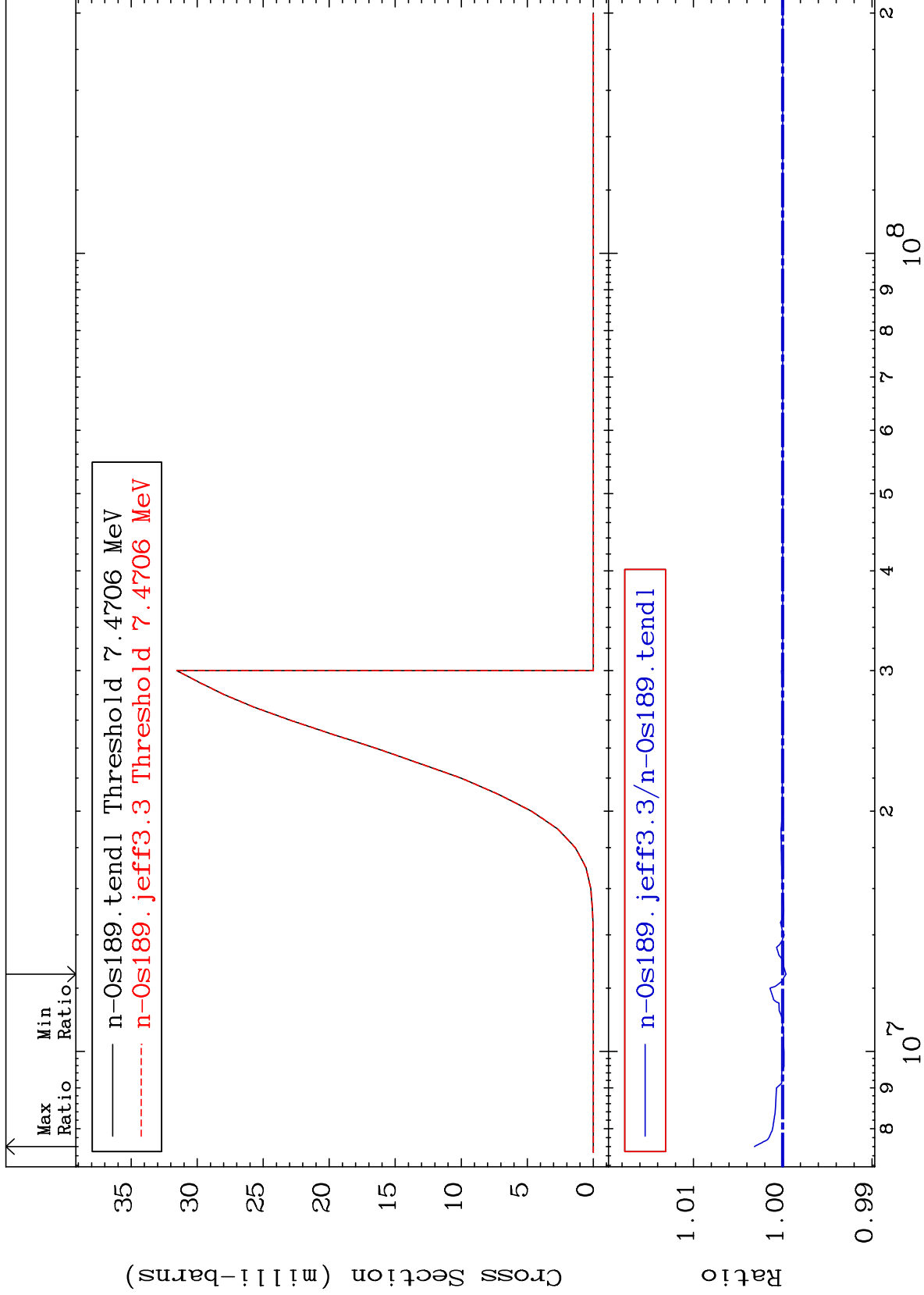


58

Incident Energy (eV)

76-0s-189

Radionuclide Production Cross Section -0.037 To 0.317 %

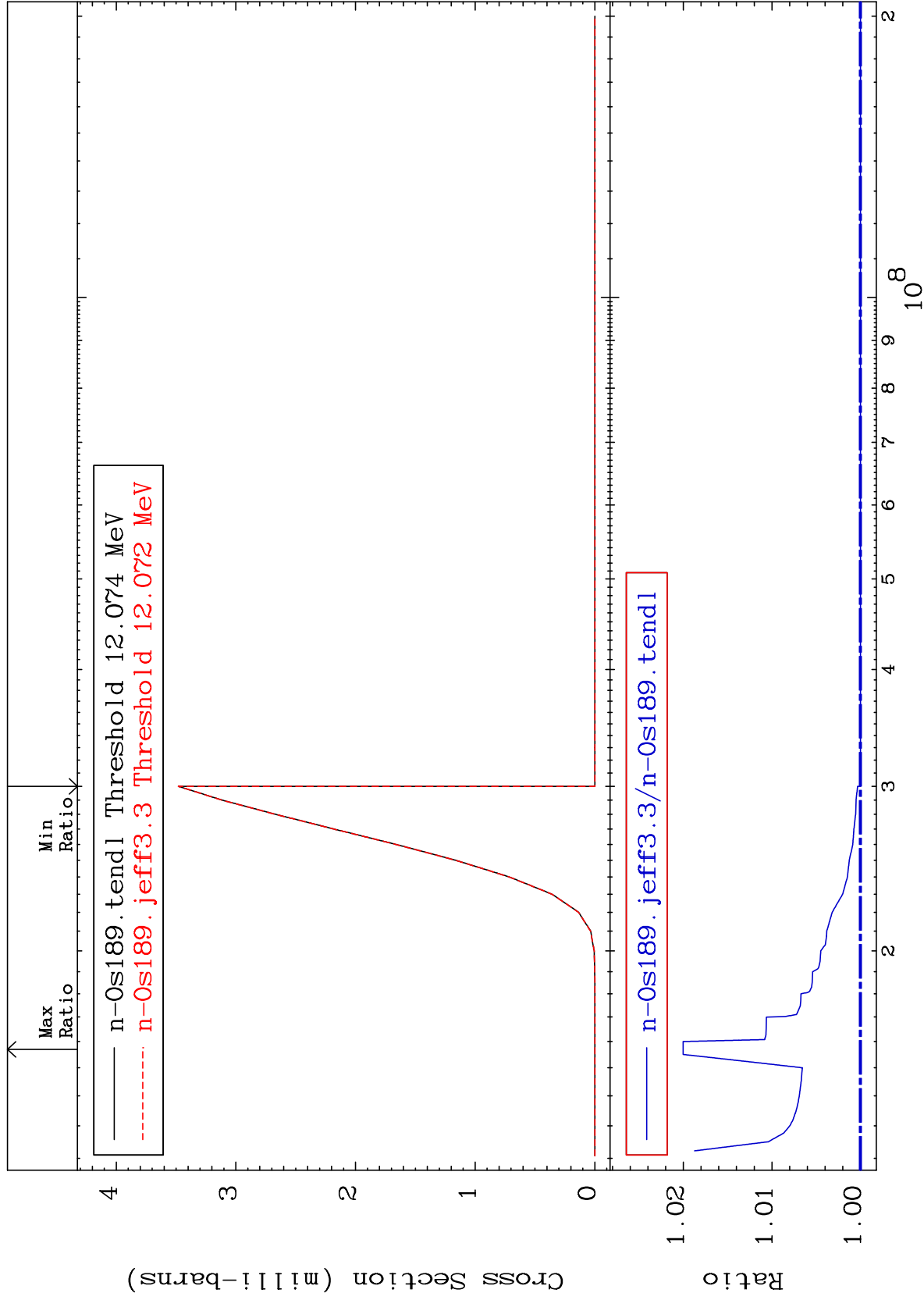


MAT 7640

(n, n') t: 75-Re-186g

76-0s-189

Radionuclide Production Cross Section 0.000 To 2.004 %

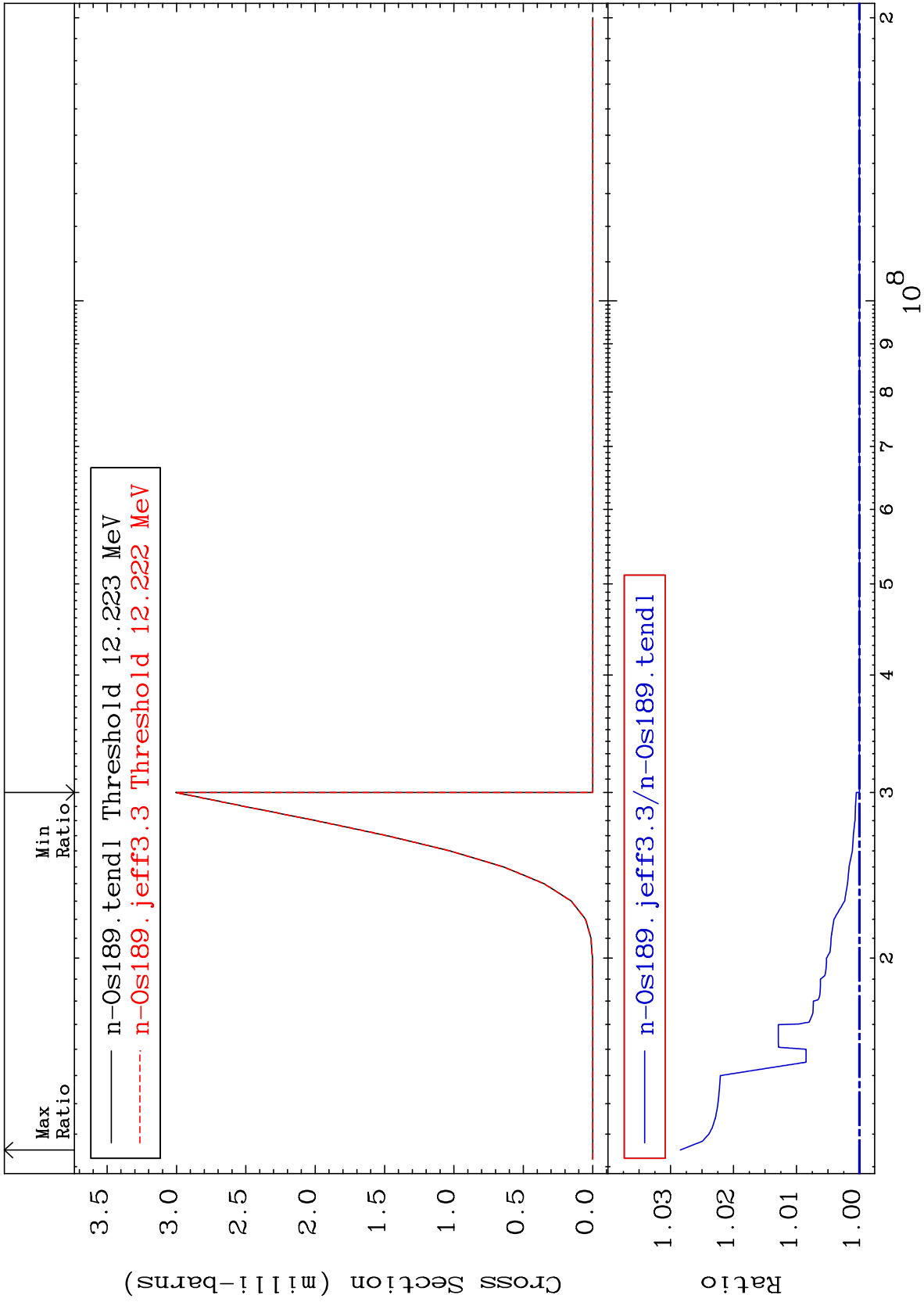


60

Incident Energy (eV)

76-0s-189

Radionuclide Production Cross Section 0.000 To 2.844 %



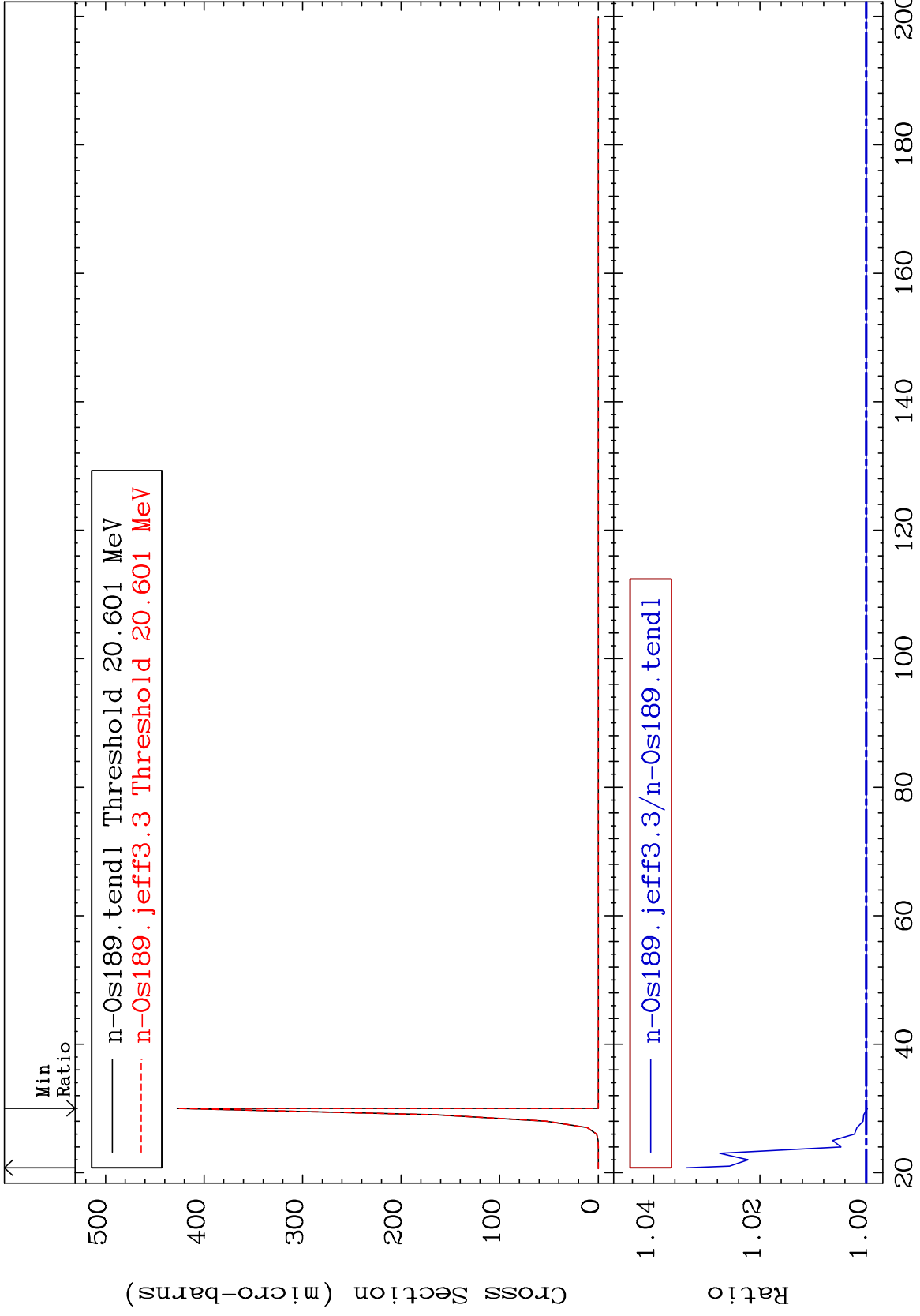
MAT 7640

(n,3n) p: 75-Re-186g

76-0s-189

Radionuclide Production Cross Section

-0.024 To 3.377 %



62

Incident Energy (MeV)

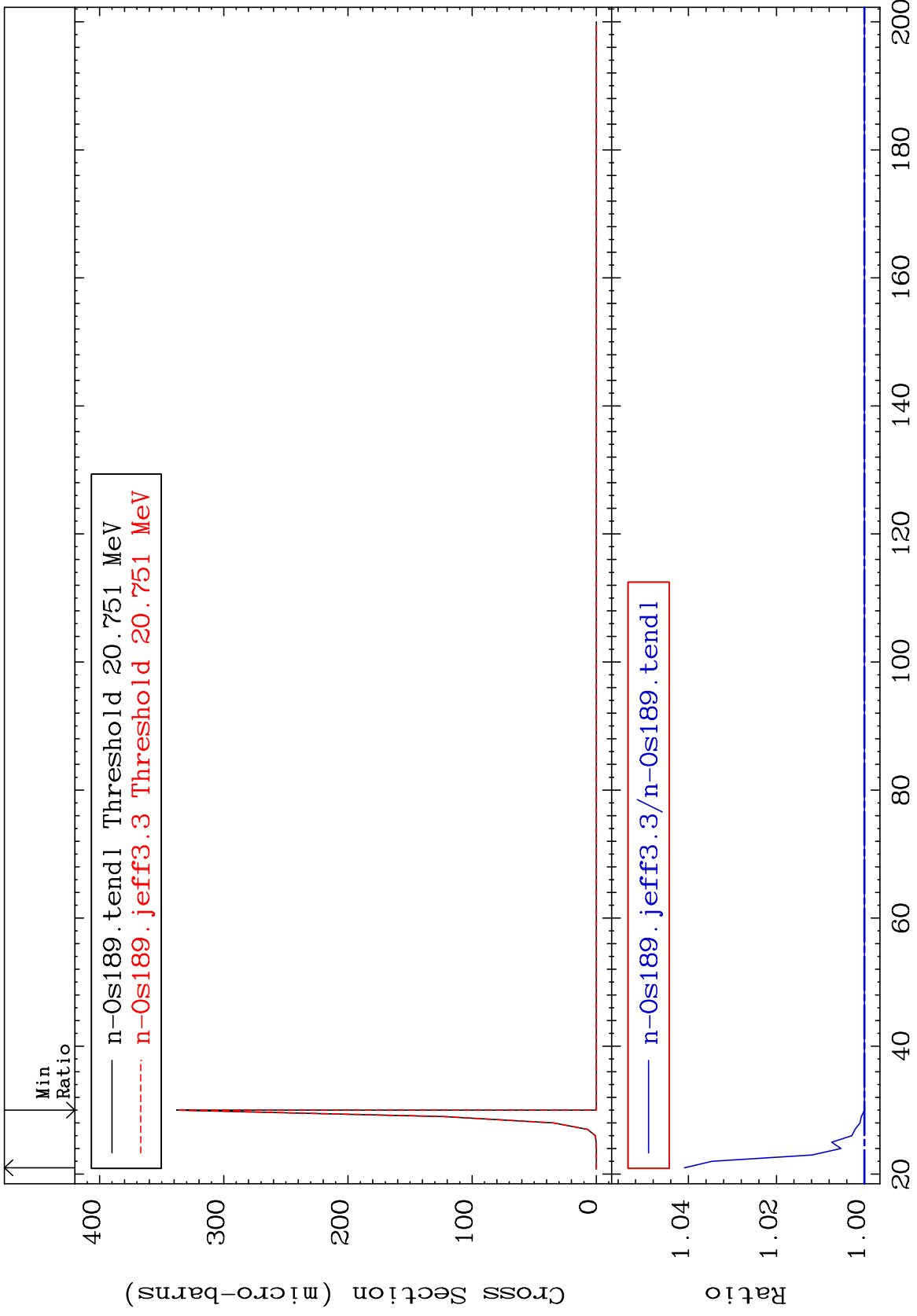
76-0s-189

MAT 7640

(n,3n) p:75-Re-186m4

76-0s-189

Radionuclide Production Cross Section -0.005 To 4.090 %



63

Incident Energy (MeV)

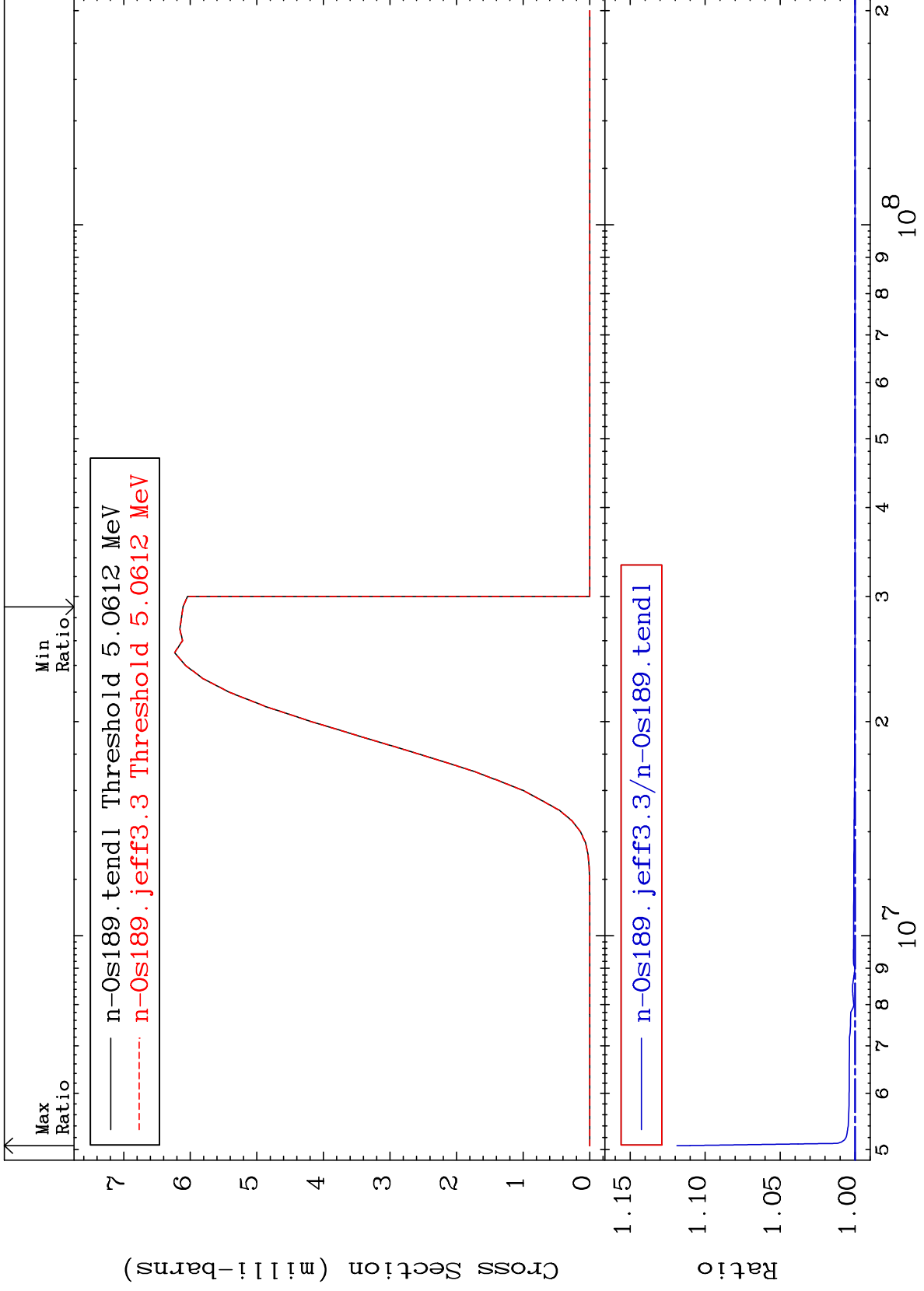
76-0s-189

MAT 7640

(n, d) : 75-Re-188g

76-0s-189

Radionuclide Production Cross Section -0.003 To 11.88 %



64

Incident Energy (eV)

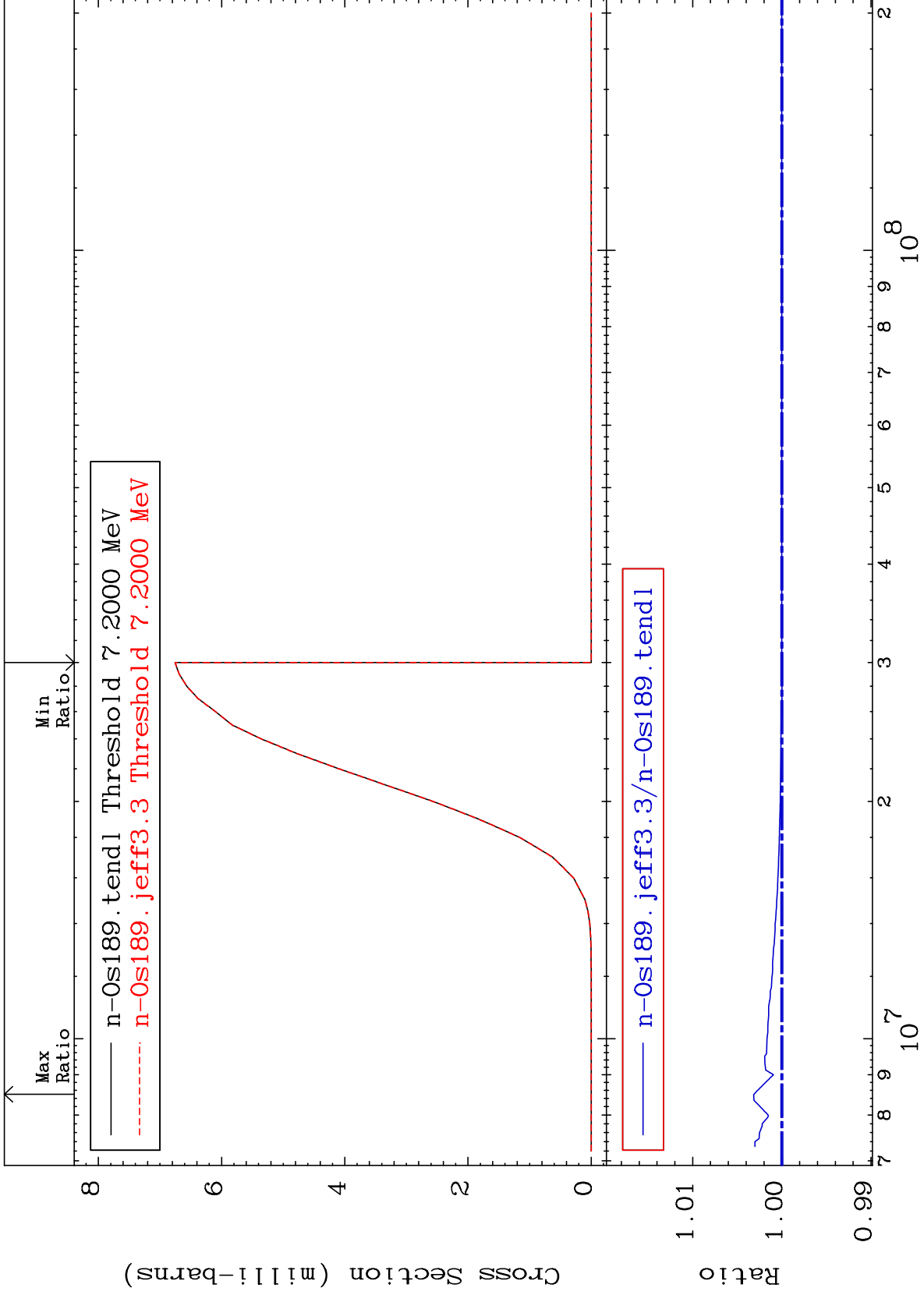
76-0s-189

MAT 7640

(n, d) : 75-Re-188m7

76-0s-189

Radionuclide Production Cross Section -0.003 To 0.315 %



65

Incident Energy (eV)

76-0s-189