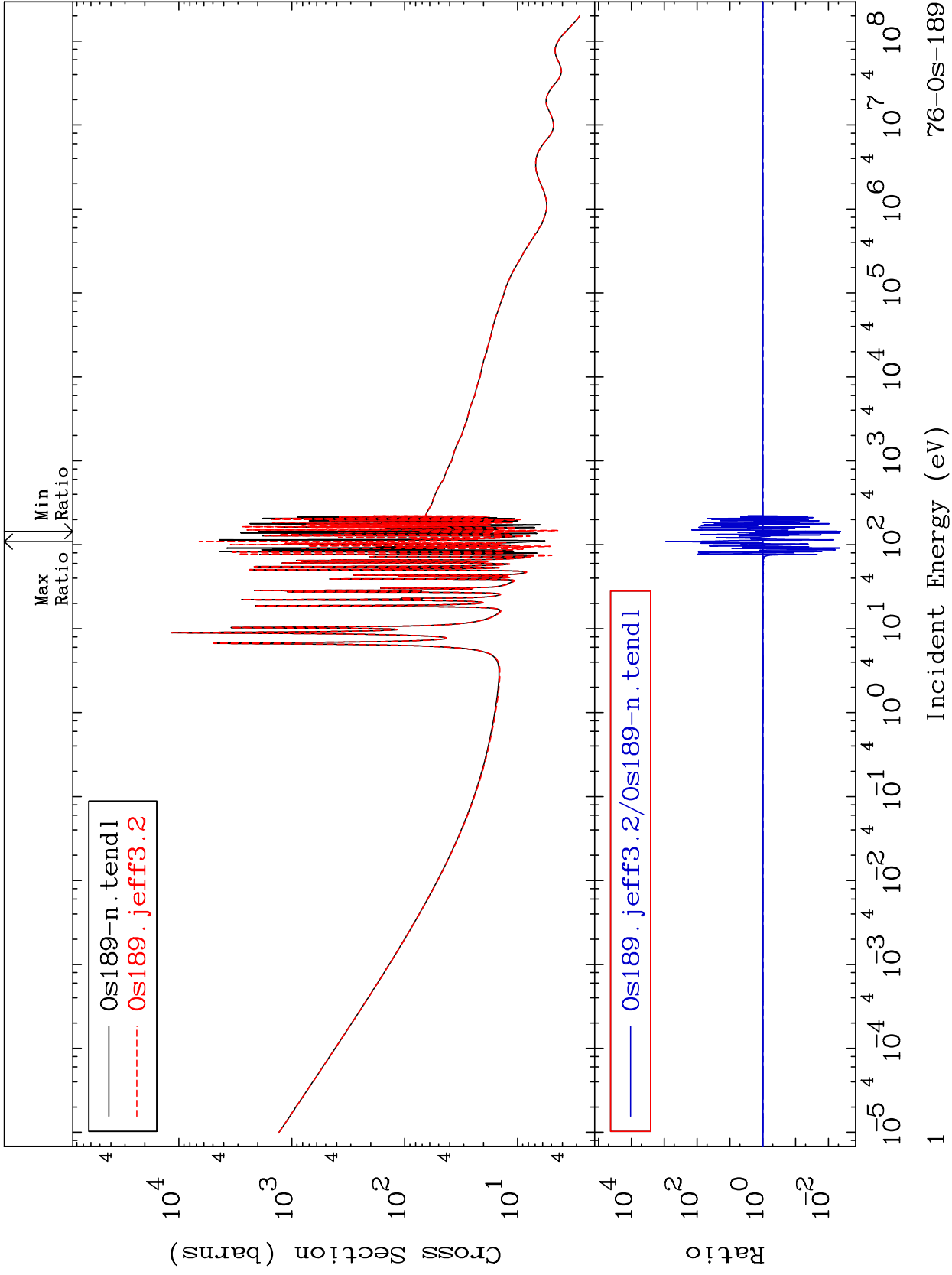


MAT 7640

Total Cross Section
76-0s-189
-99.57 To 9999. %

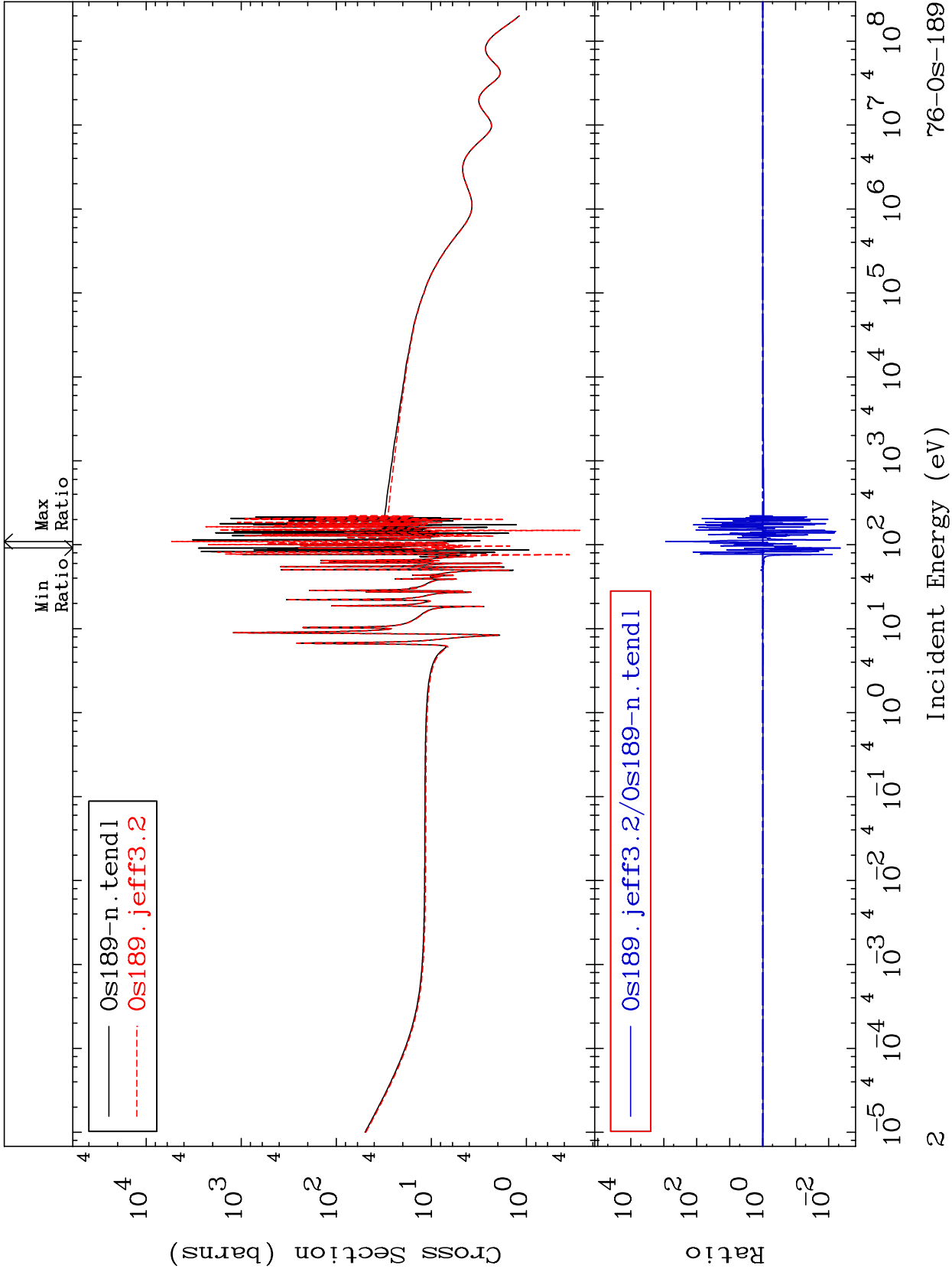


76-0s-189

MAT 7640

Elastic
Cross Section

76-0s-189
-99.57 To 9999. %



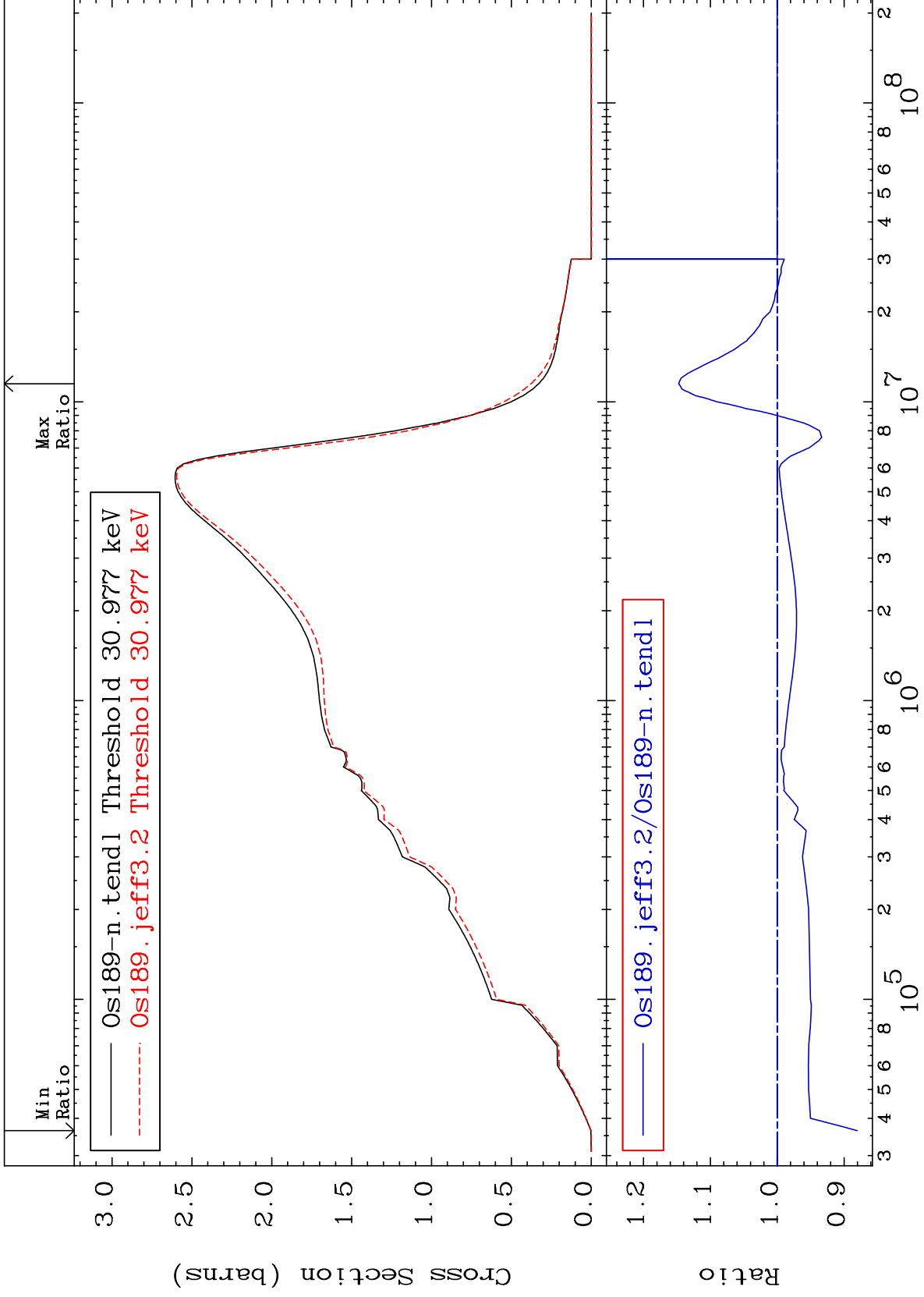
Incident Energy (eV)

76-0s-189

MAT 7640

Inelastic
Cross Section

76-Os-189
-11.97 To 14.75 %



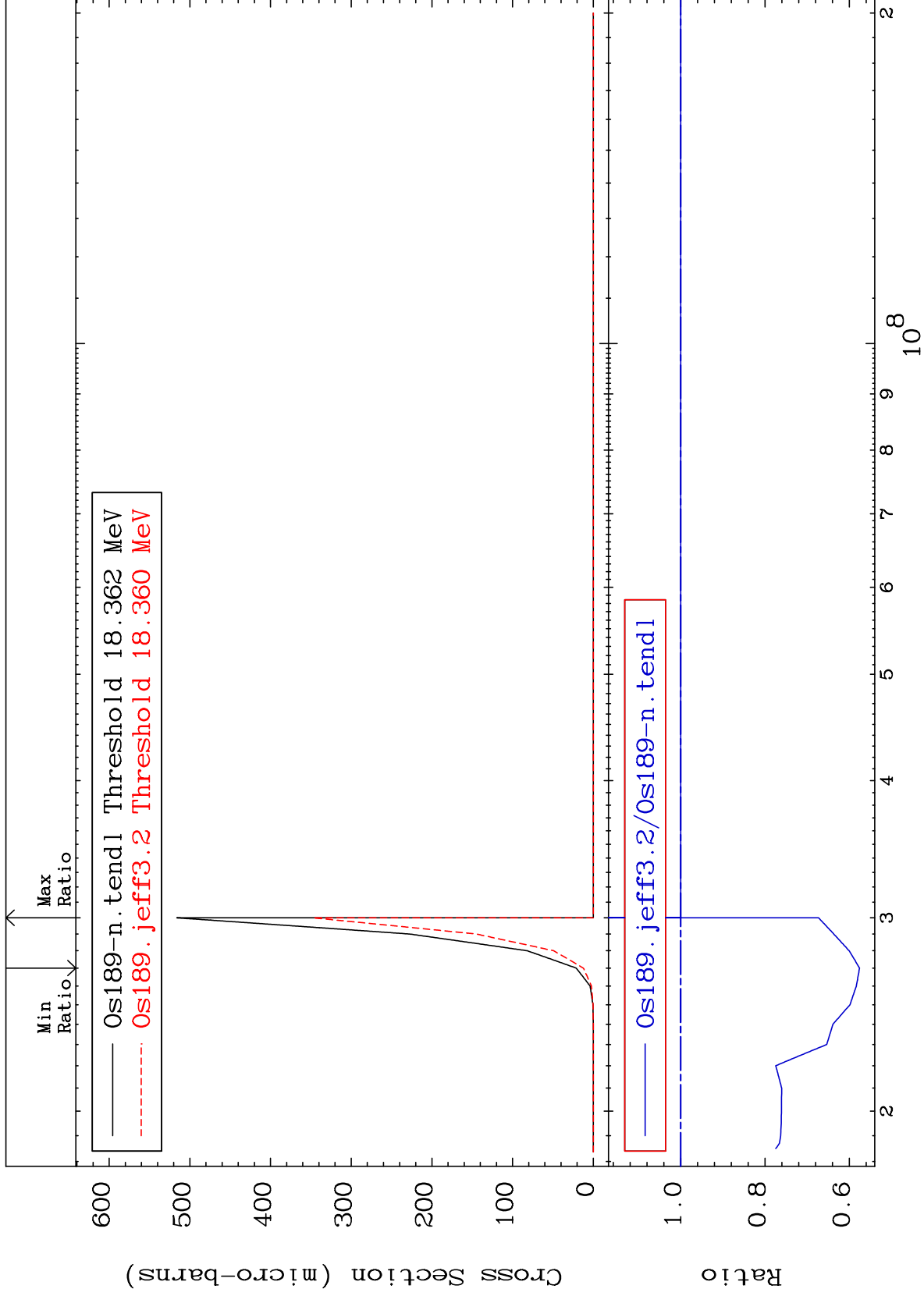
3

76-Os-189

MAT 7640

(n,2n) d
Cross Section

76-0s-189
-42.41 To 0.000 %



4

76-0s-189

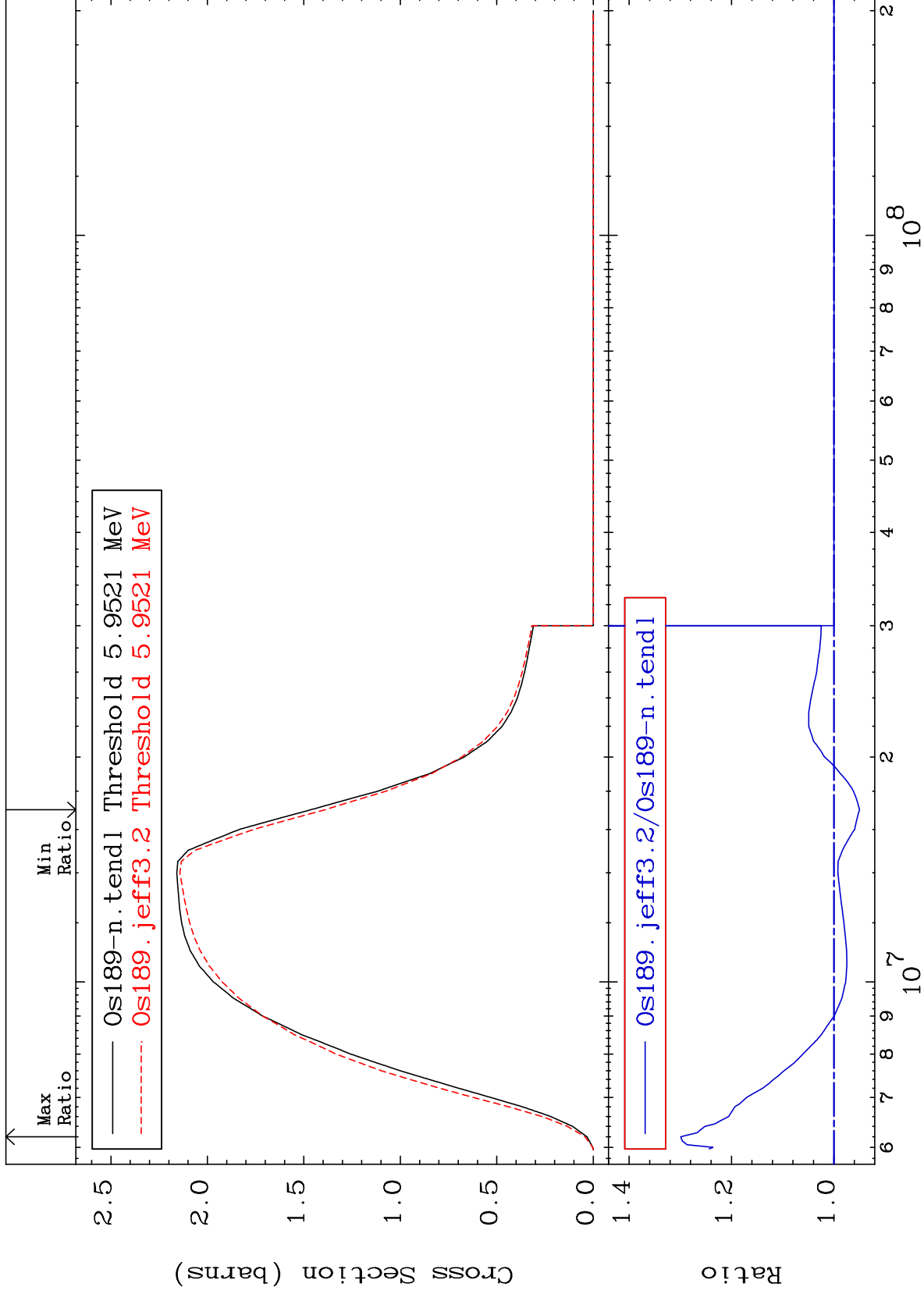
MAT 7640

(n,2n)

76-0s-189

Cross Section

-5.006 To 29.91 %



76-0s-189

Incident Energy (eV)

5

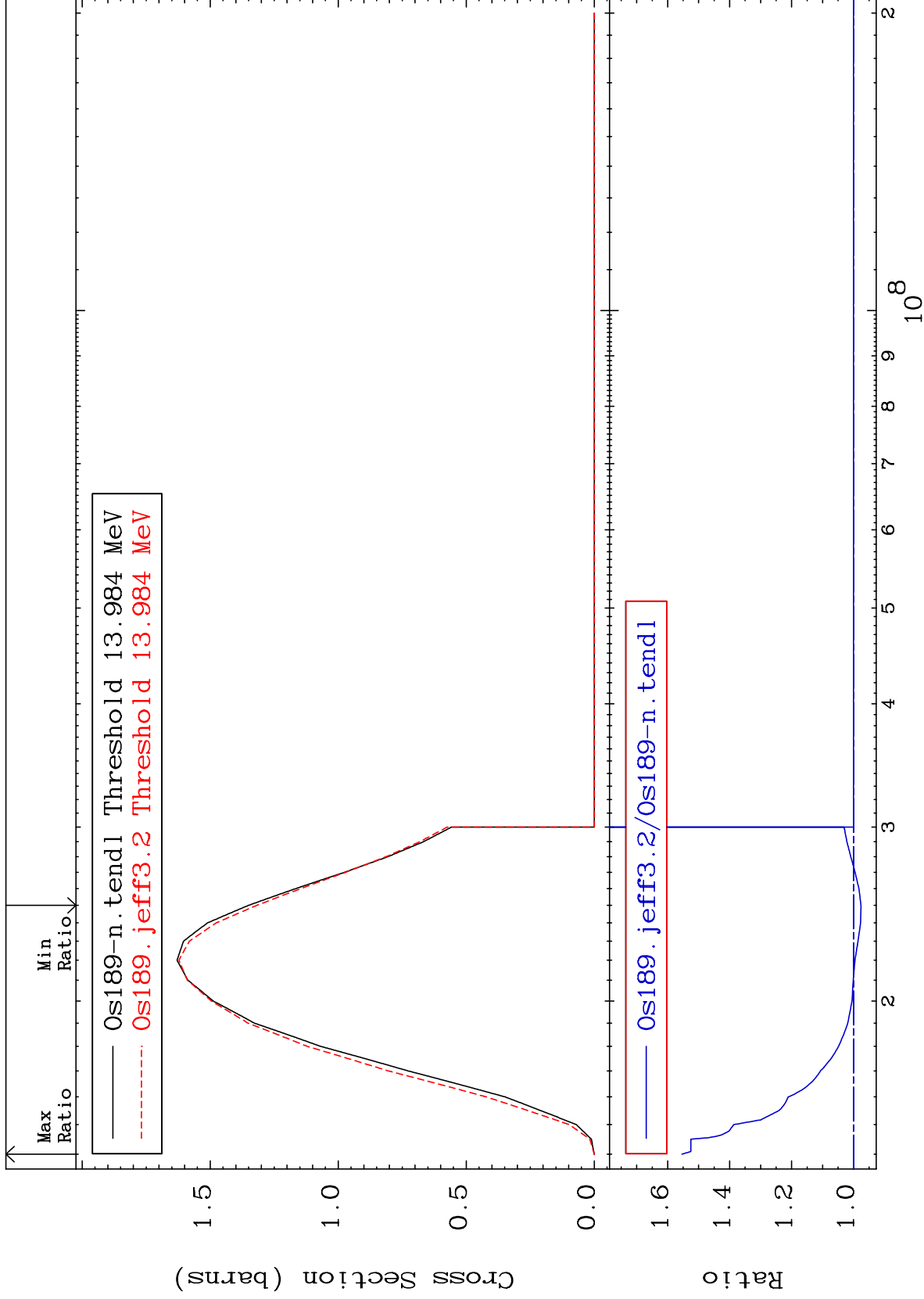
MAT 7640

(n,3n)

76-0s-189

Cross Section

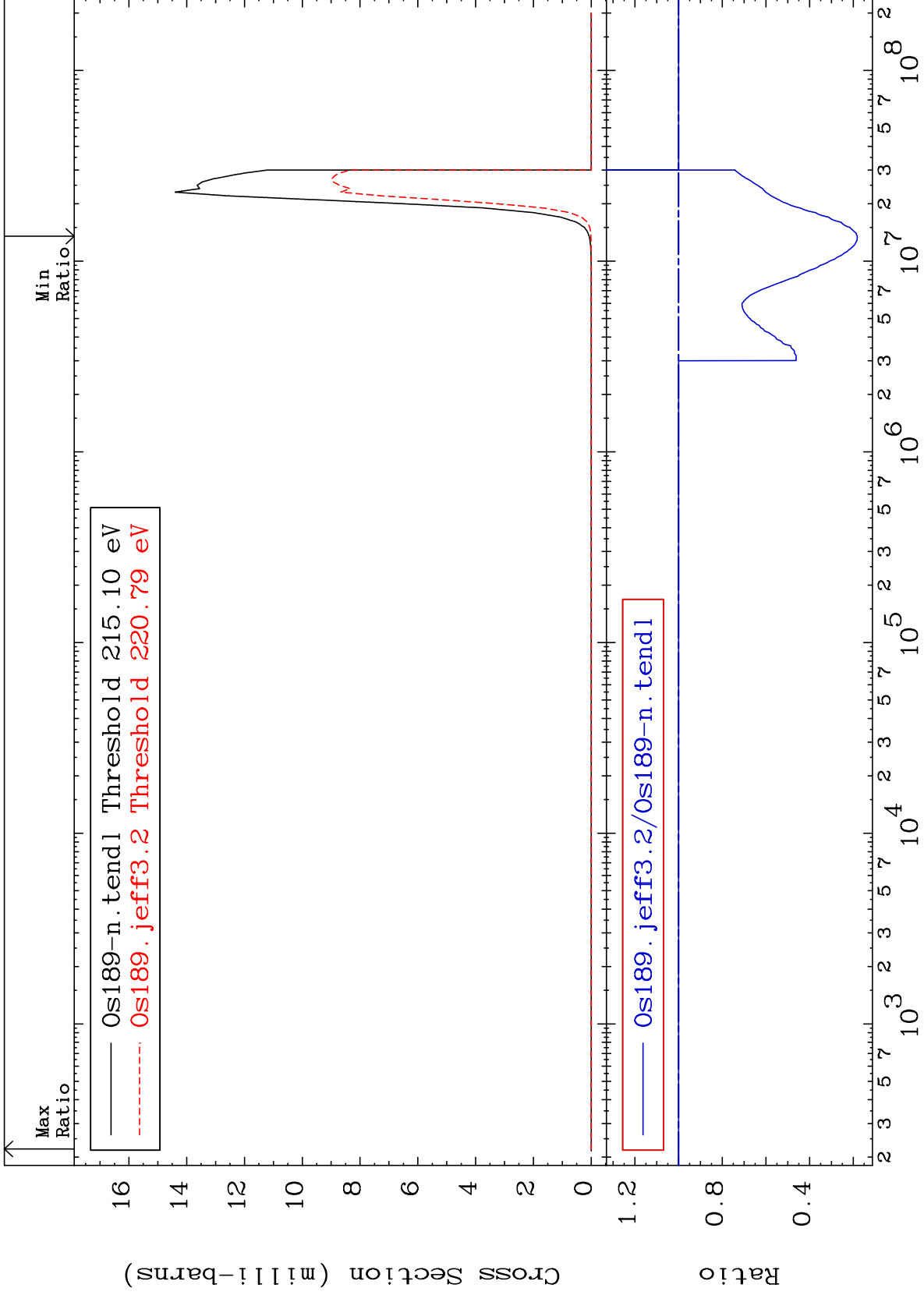
-2.397 To 55.40 %



MAT 7640

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

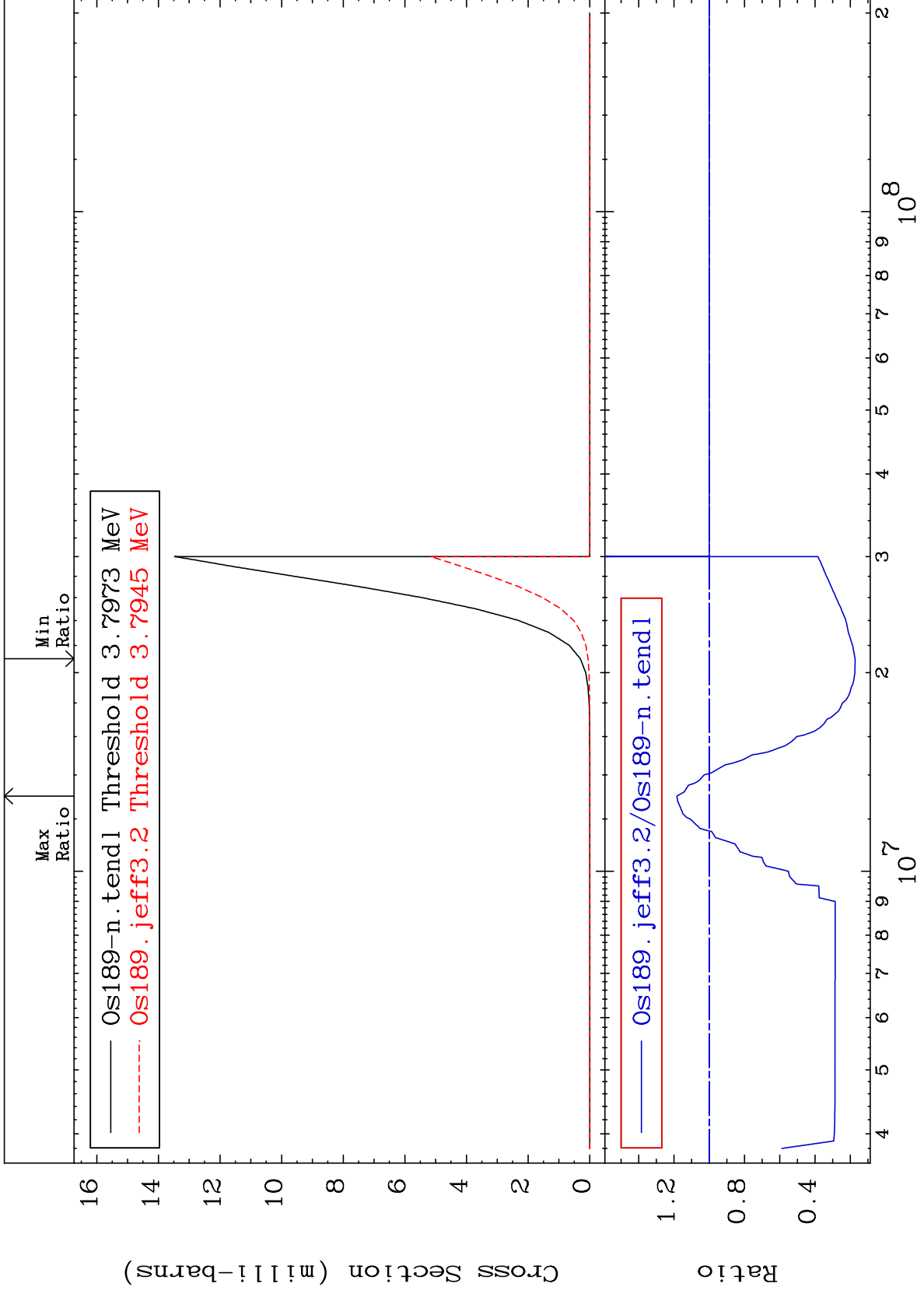
76-0s-189
-81.82 To 0.000 %



MAT 7640

(n,2n) α
Cross Section

76-0s-189
-82.67 To 18.30 %



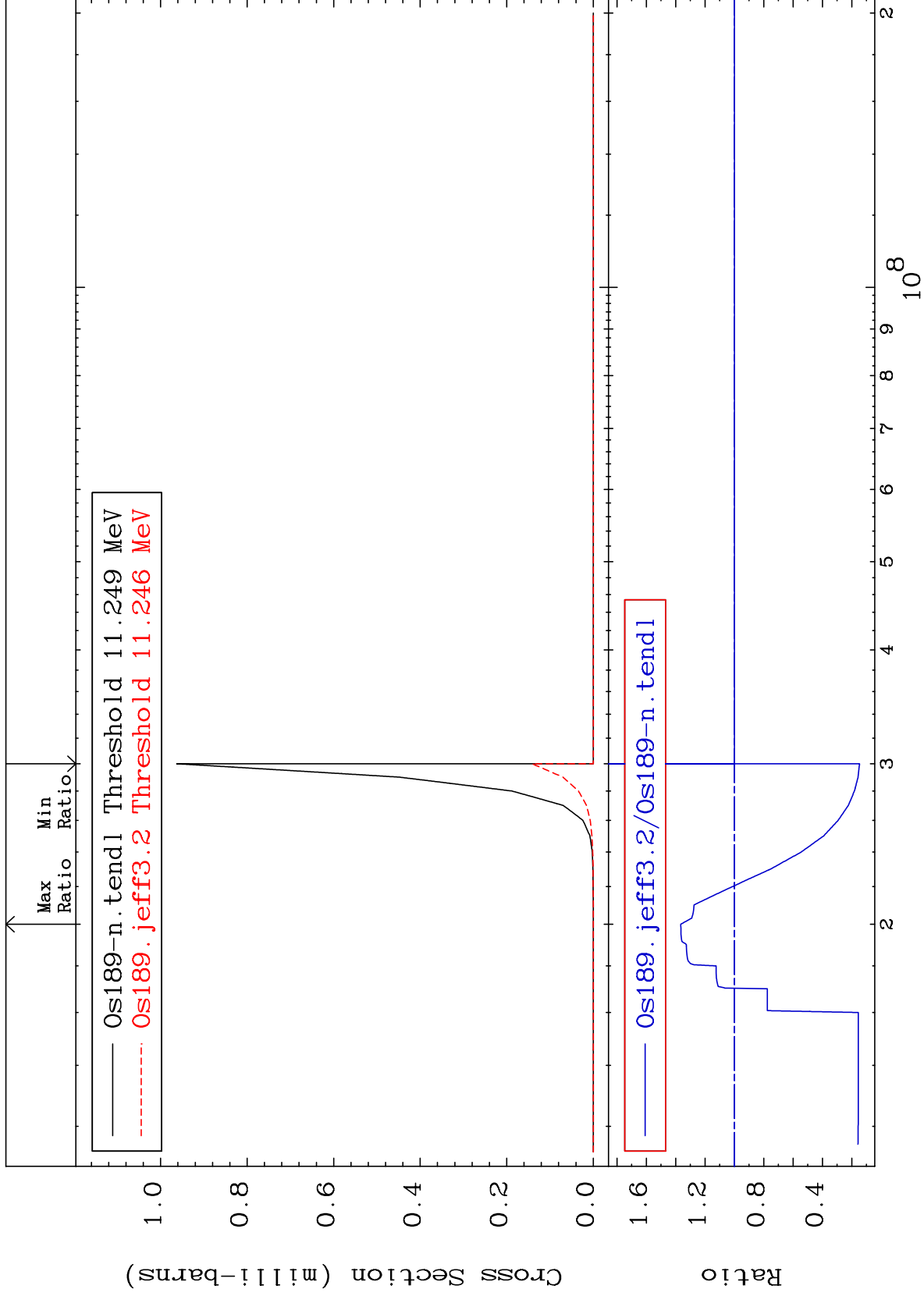
8

76-0s-189

MAT 7640

(n,3n) α
Cross Section

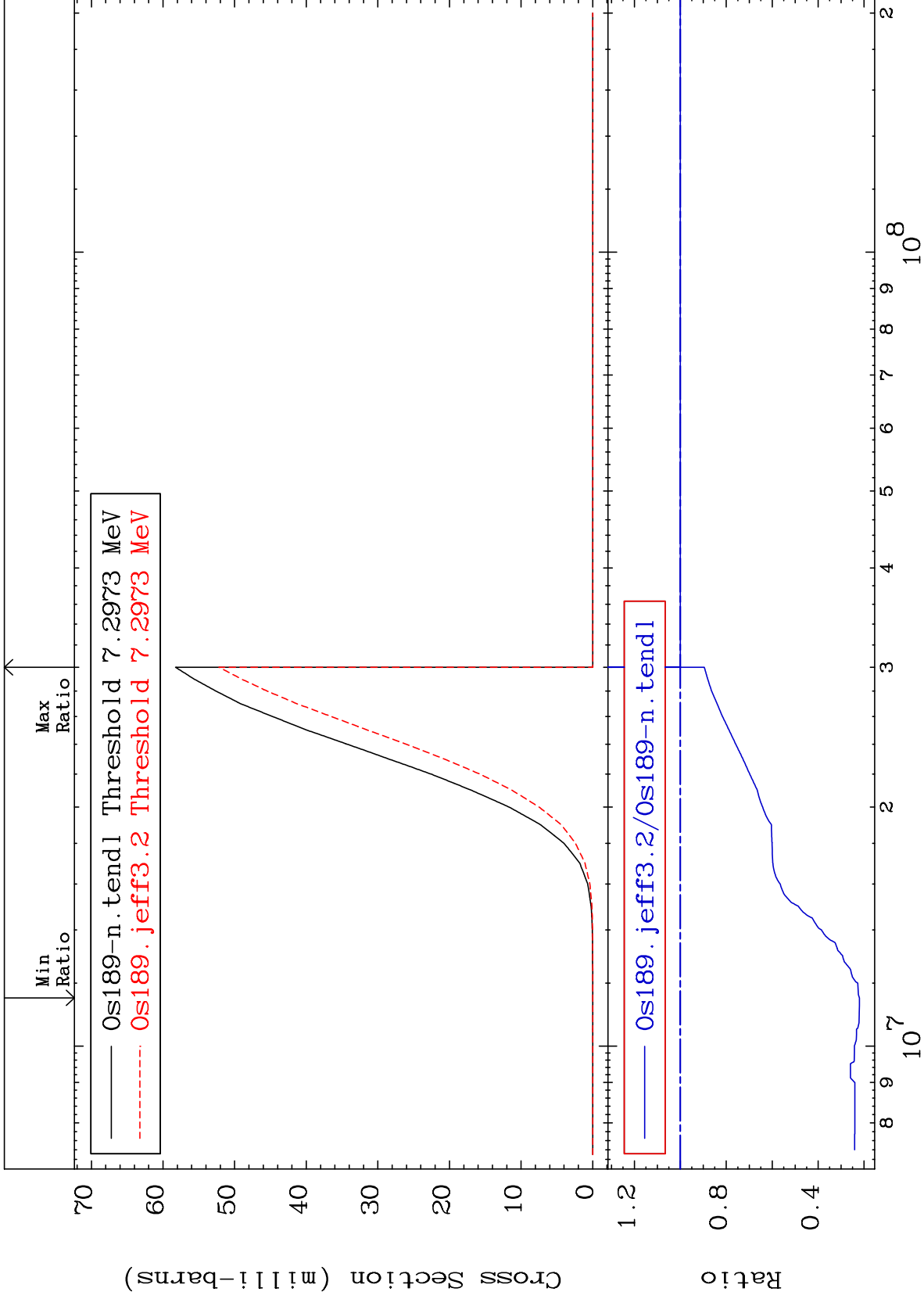
76-0s-189
-85.31 To 36.51 %



MAT 7640

(n,n') p
Cross Section

76-0s-189
-77.98 To 0.000 %



10

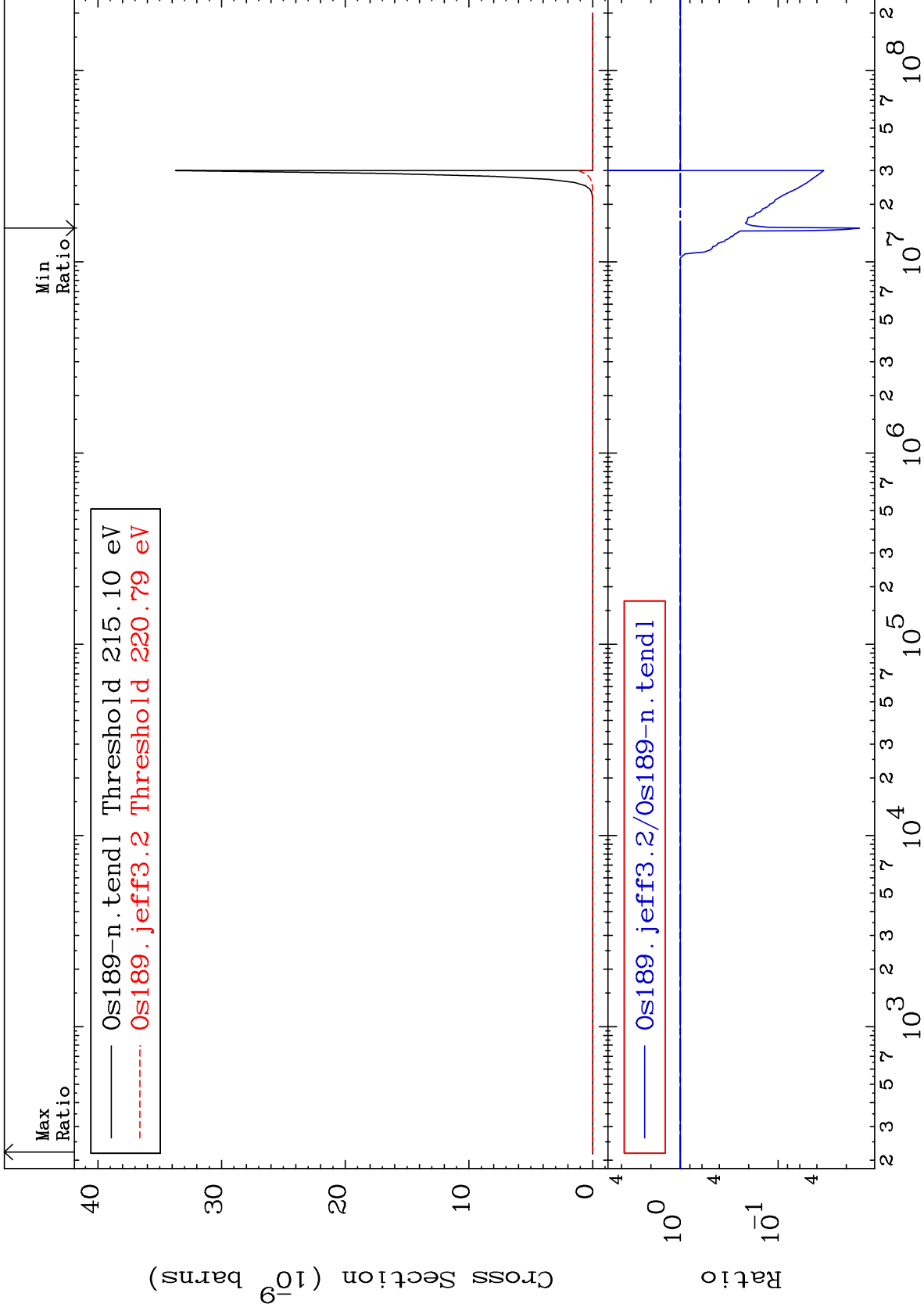
Incident Energy (eV)

76-0s-189

MAT 7640

(n, n') 2α
Cross Section

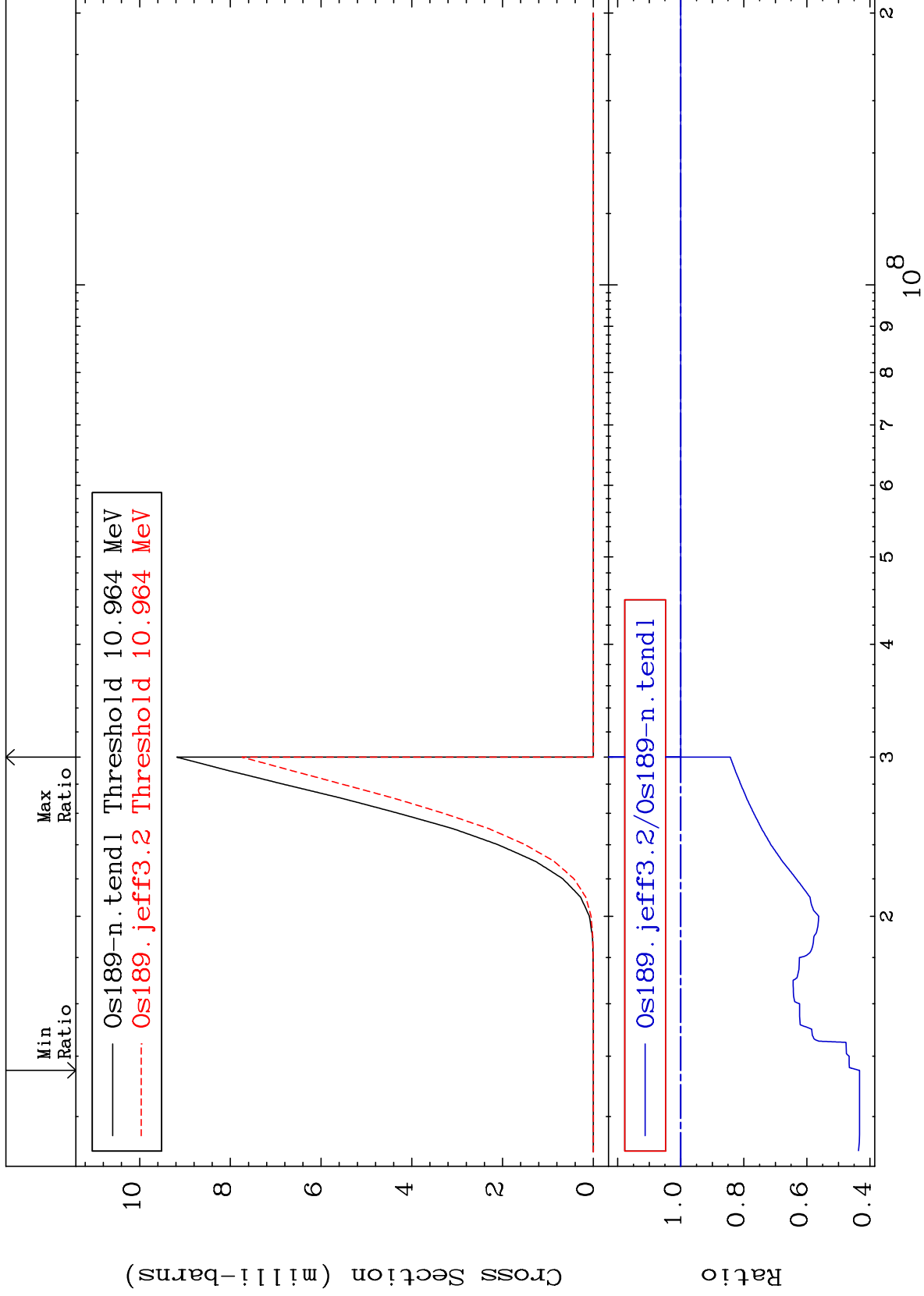
76-0s-189
-98.53 To 0.000 %



MAT 7640

(n,n') d
Cross Section

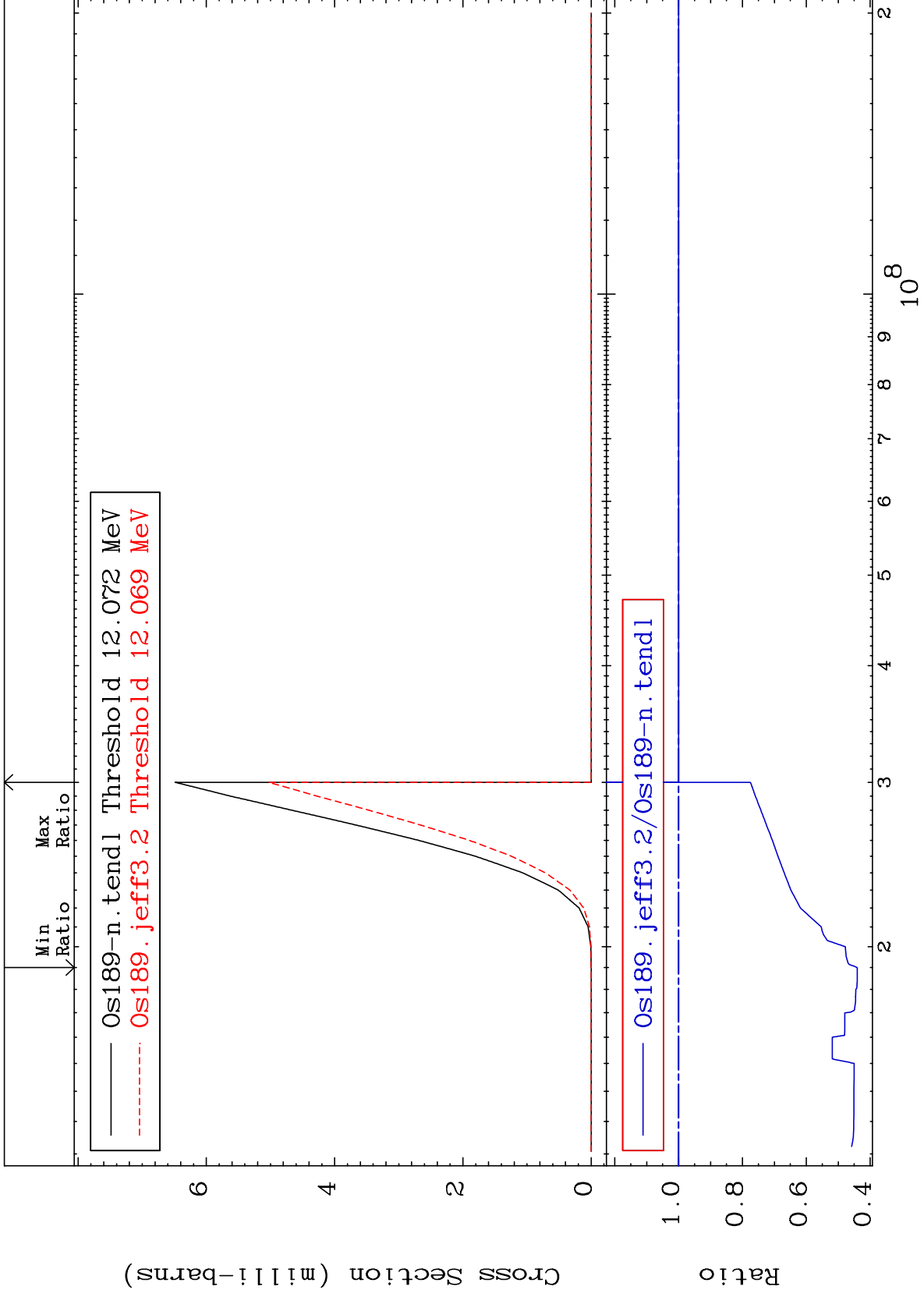
76-0s-189
-56.70 To 0.000 %



MAT 7640

(n, n') t
Cross Section

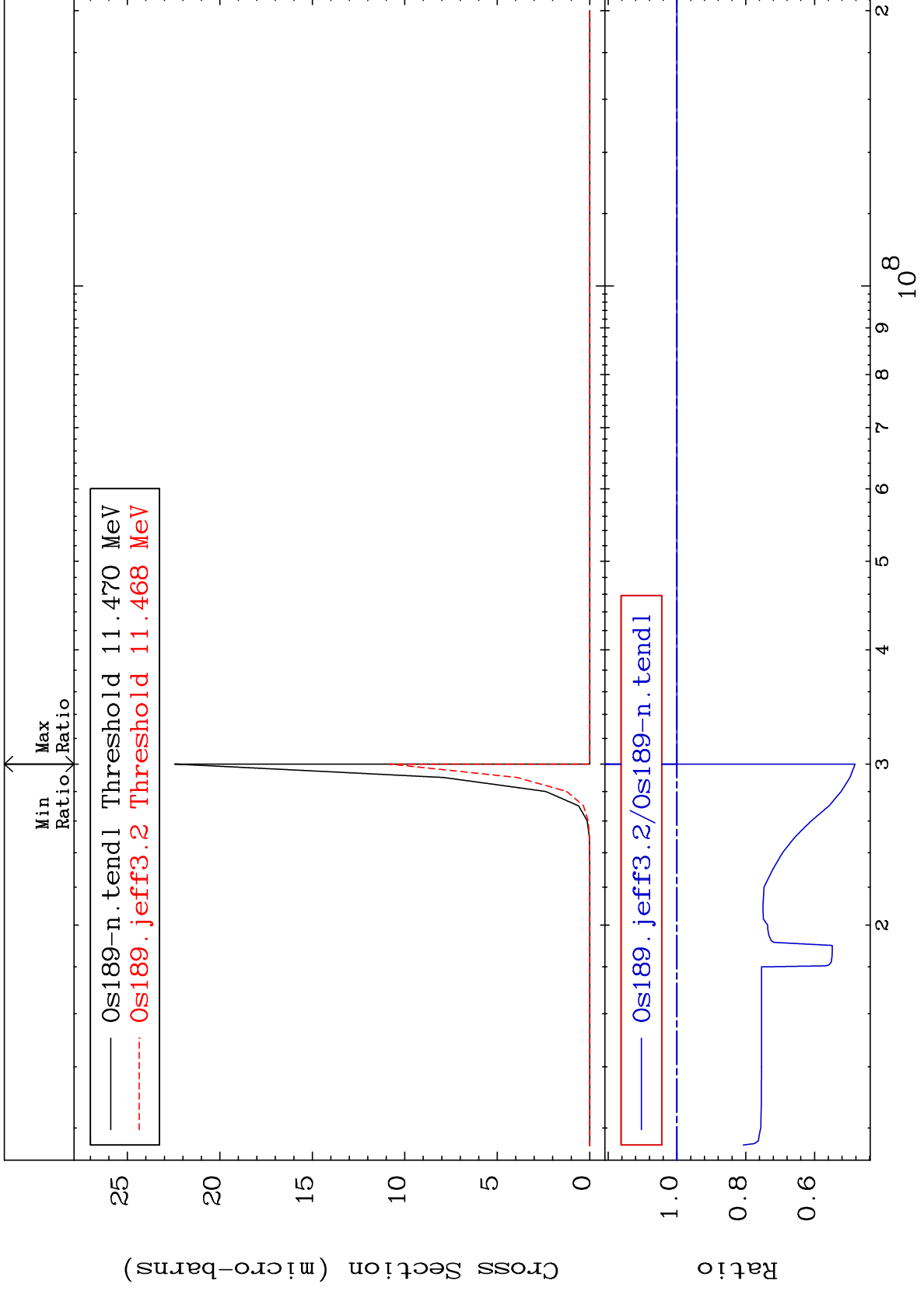
76-0s-189
-55.95 To 0.000 %



MAT 7640

(n, n') He-3
Cross Section

76-0s-189
-51.78 To 0.000 %



14

Incident Energy (eV)

76-0s-189

MAT 7640

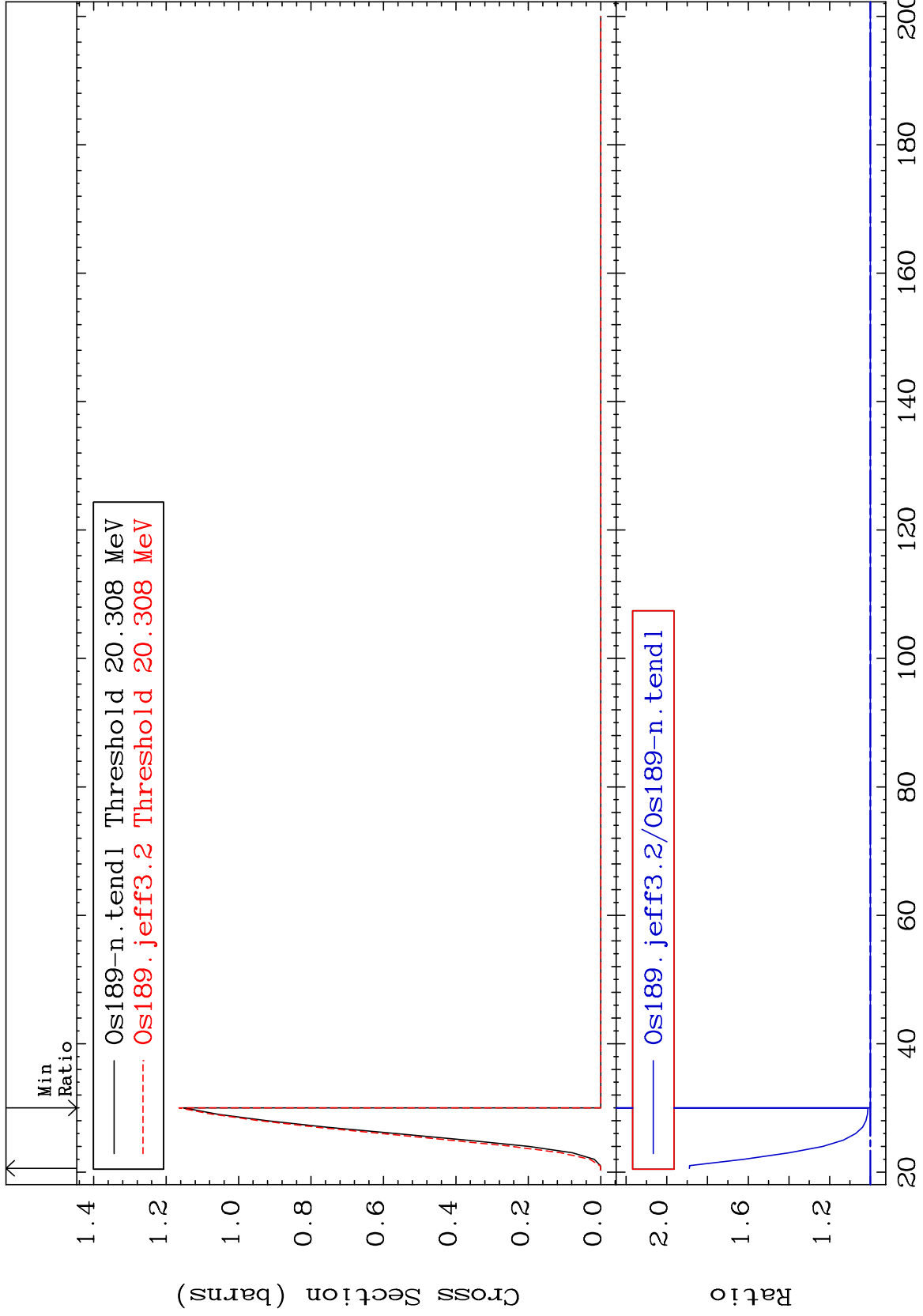
(n,4n)

⁷⁶Os-189

Cross Section

0.000

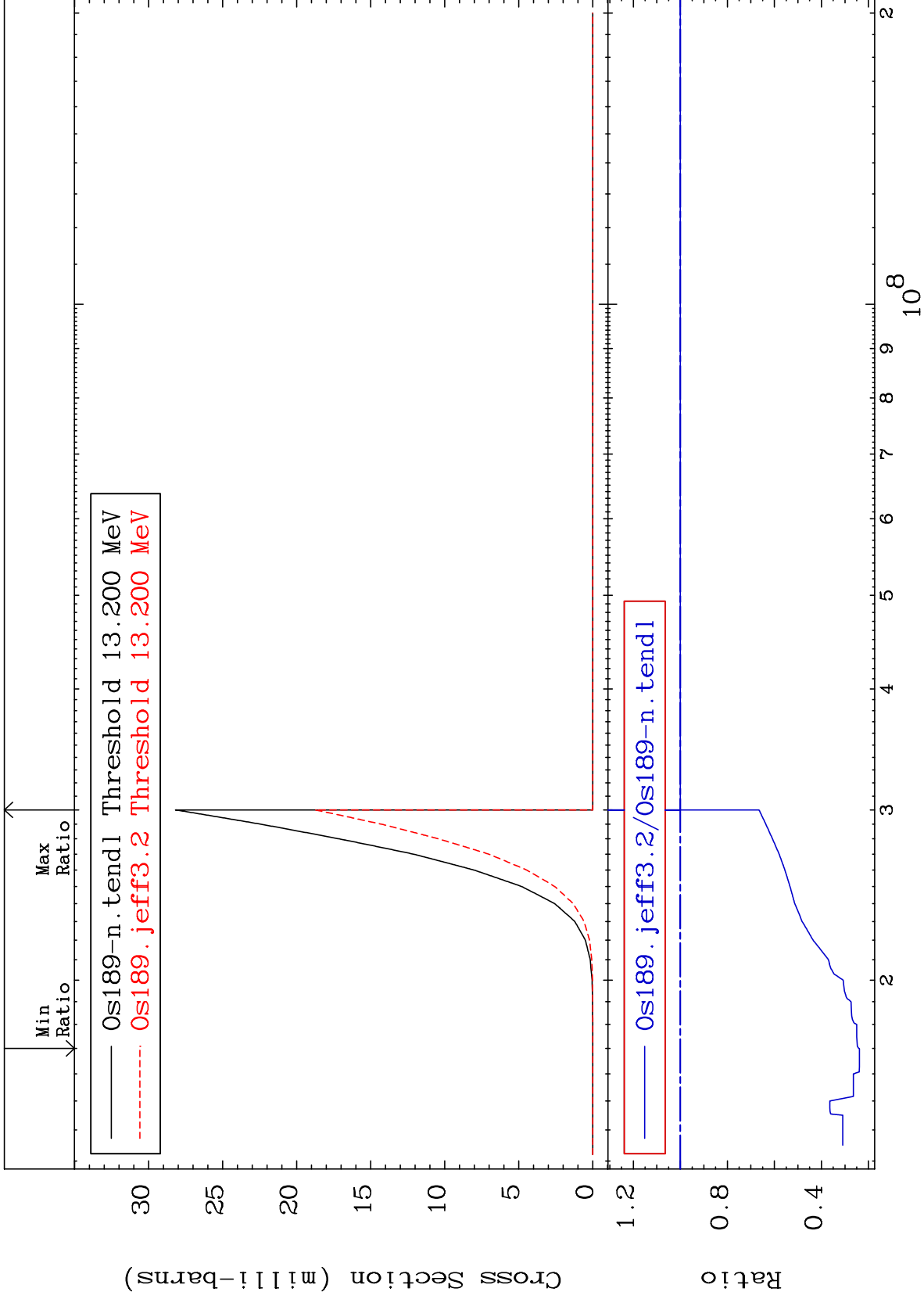
To 88.93 %



MAT 7640

(n,2n) p
Cross Section

76-0s-189
-76.16 To 0.000 %



16

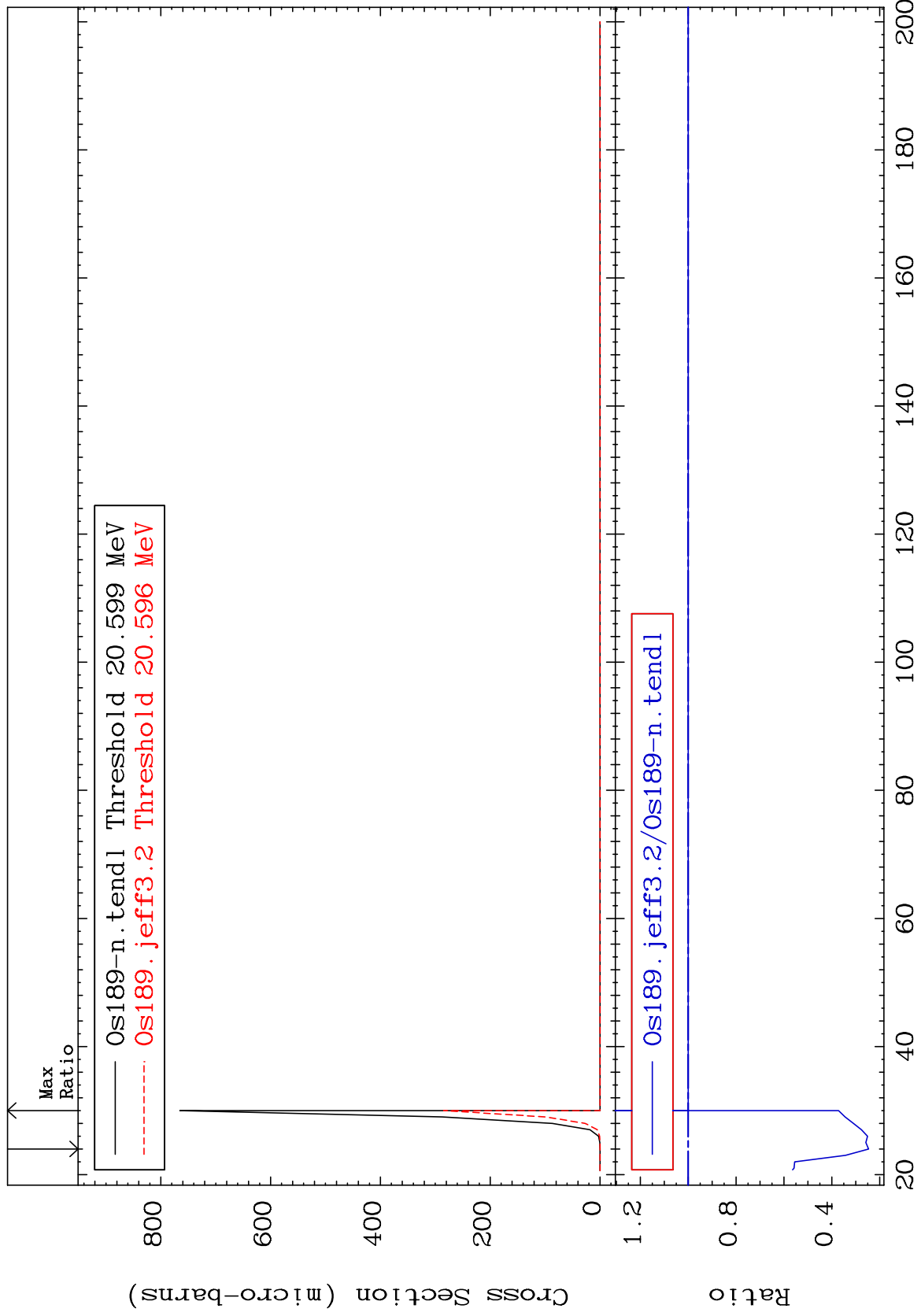
Incident Energy (eV)

76-0s-189

MAT 7640

(n,3n) p
Cross Section

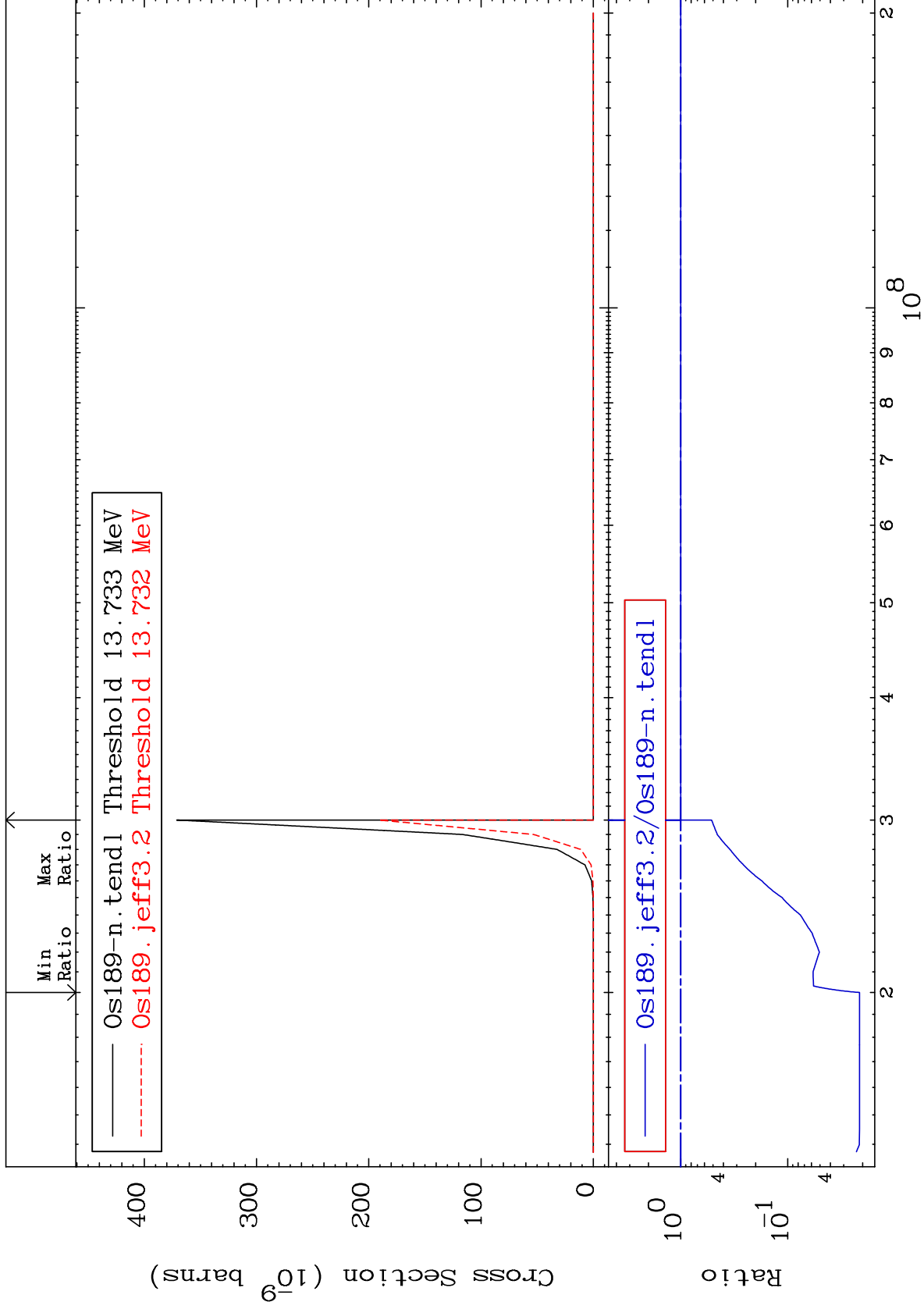
76-0s-189
-75.34 To 0.000 %



MAT 7640

(n,2n) p
Cross Section

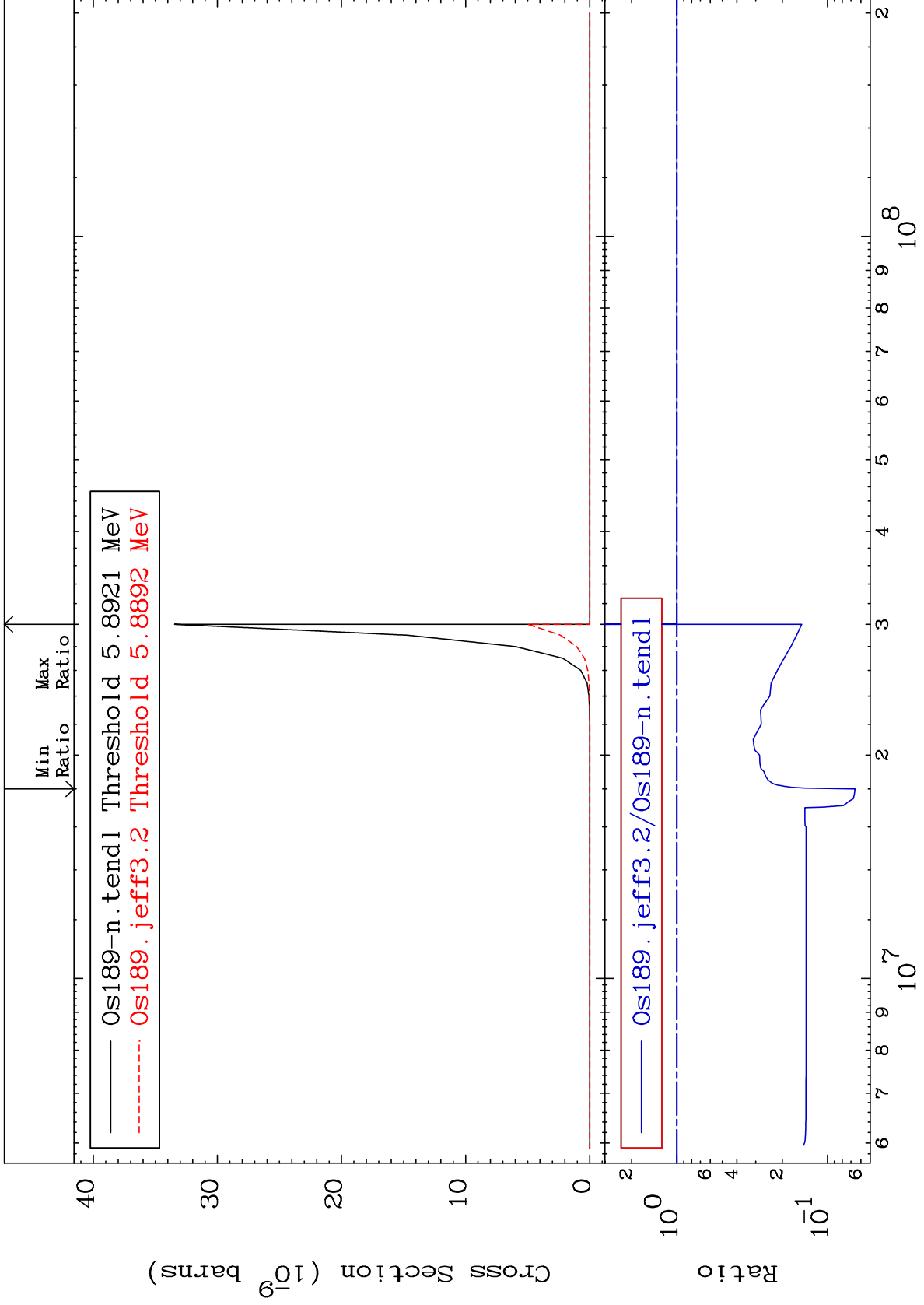
76-0s-189
-97.87 To 0.000 %



MAT 7640

(n,n') p α
Cross Section

76-0s-189
-93.44 To 0.000 %

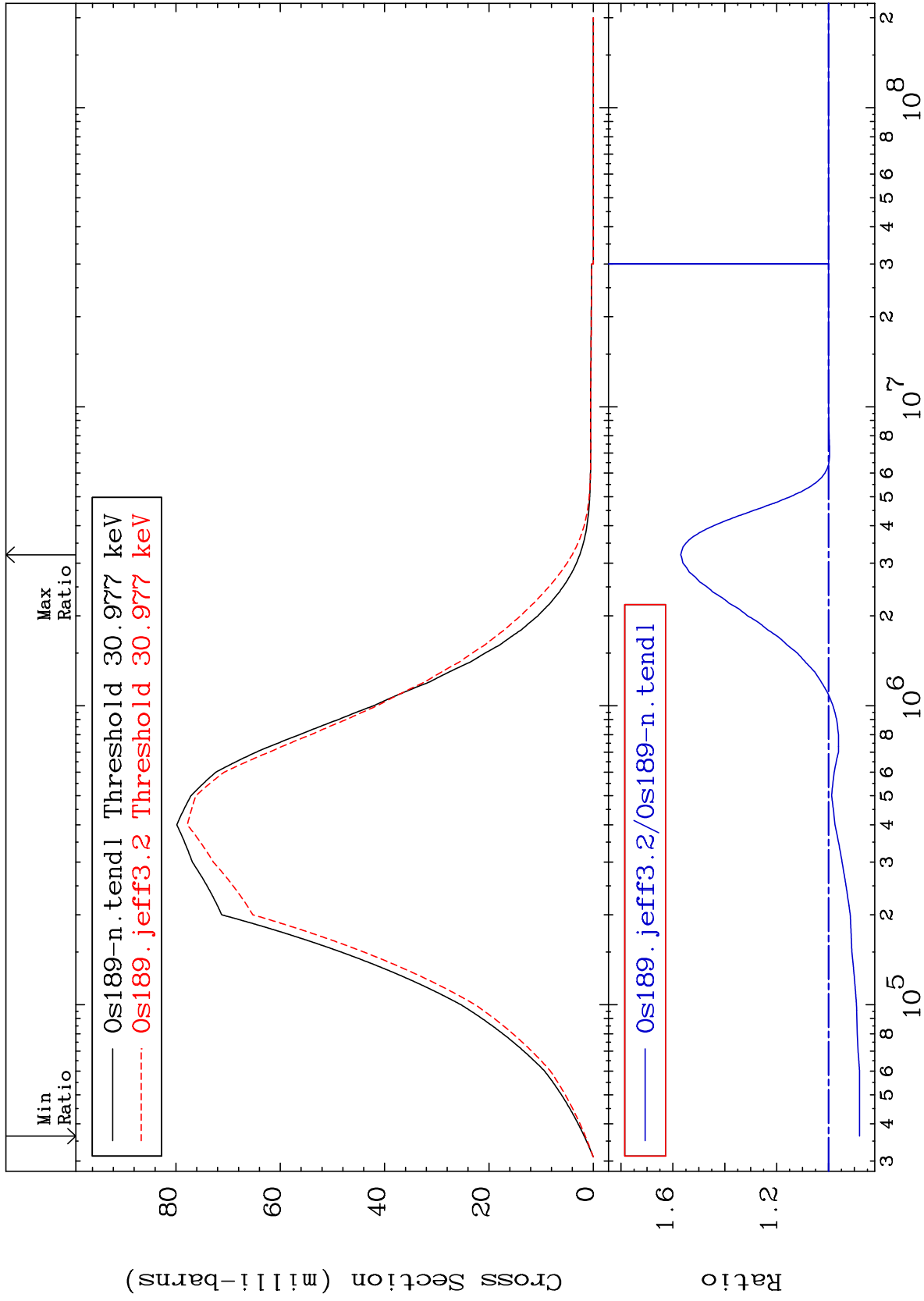


MAT 7640

30.81 keV (n,n') Level

76-Os-189

-11.97 To 56.97 %



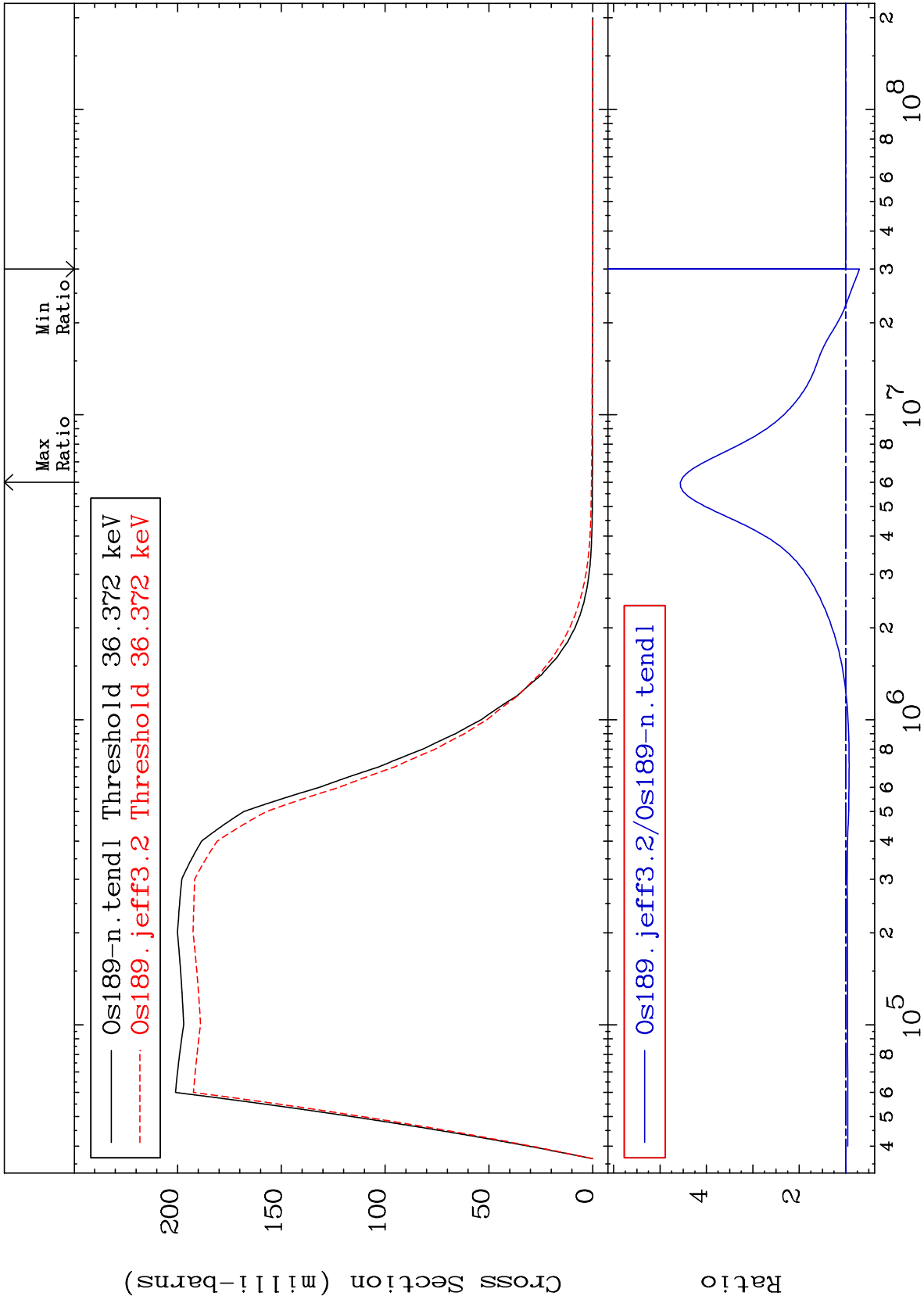
20

76-Os-189

MAT 7640

36.18 keV (n,n') Level
Cross Section

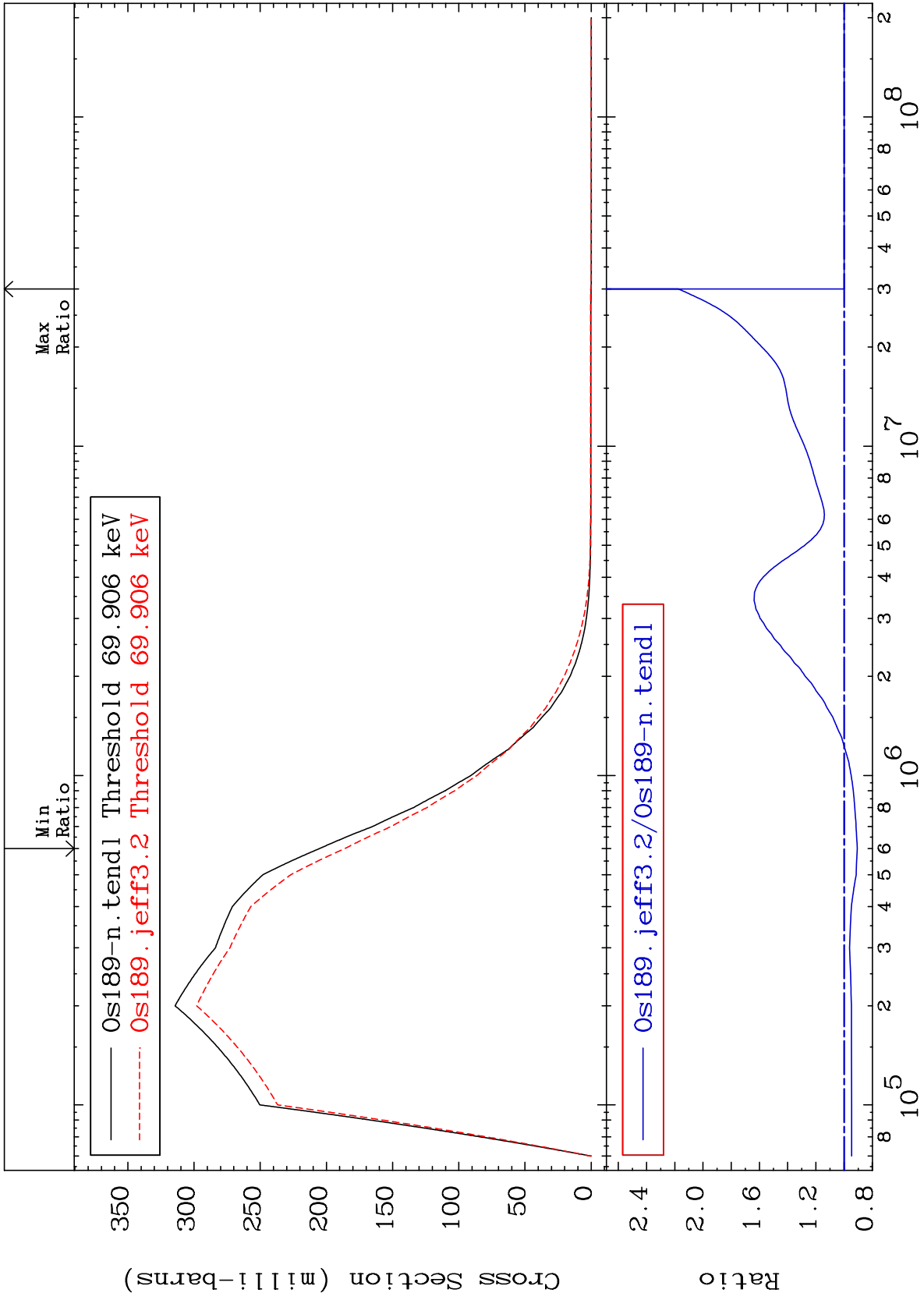
76-Os-189
-29.64 To 356.2 %



MAT 7640

69.54 keV (n,n') Level
Cross Section

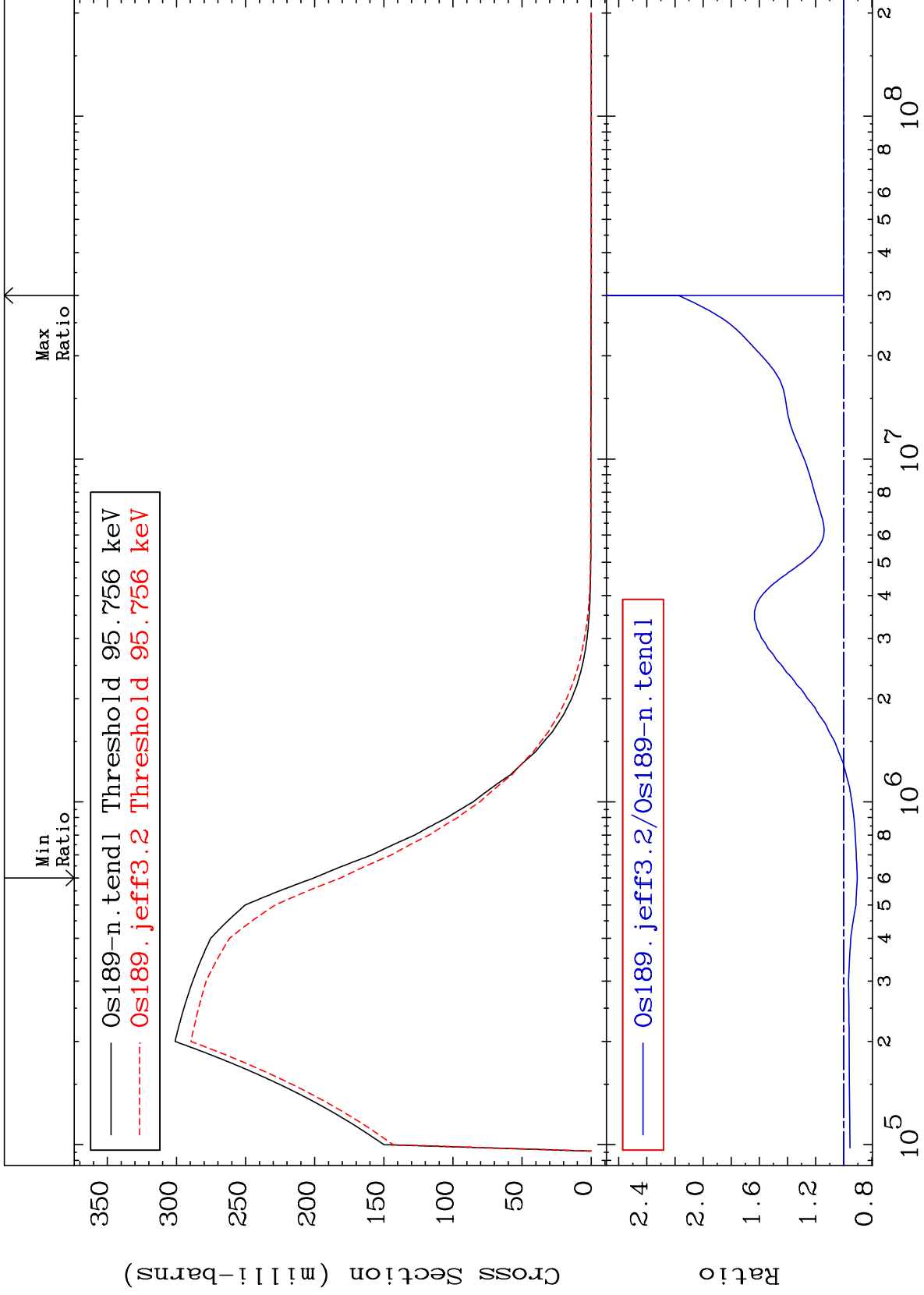
76-Os-189
-9.326 To 117.2 %



MAT 7640

95.25 keV (n,n') Level
Cross Section

76-Os-189
-9.586 To 117.4 %



23

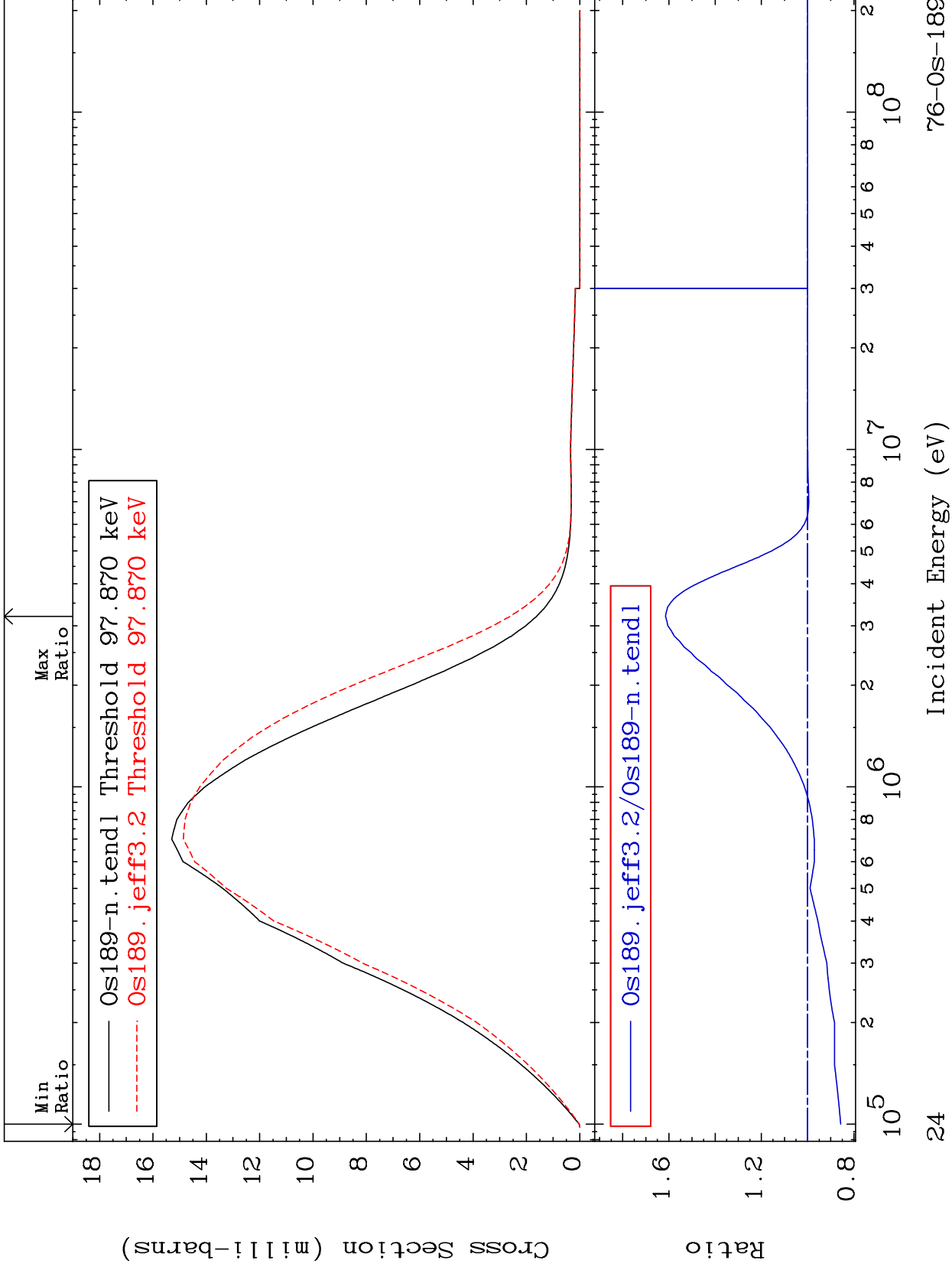
Incident Energy (eV)

76-Os-189

MAT 7640

97.35 keV (n,n') Level
Cross Section

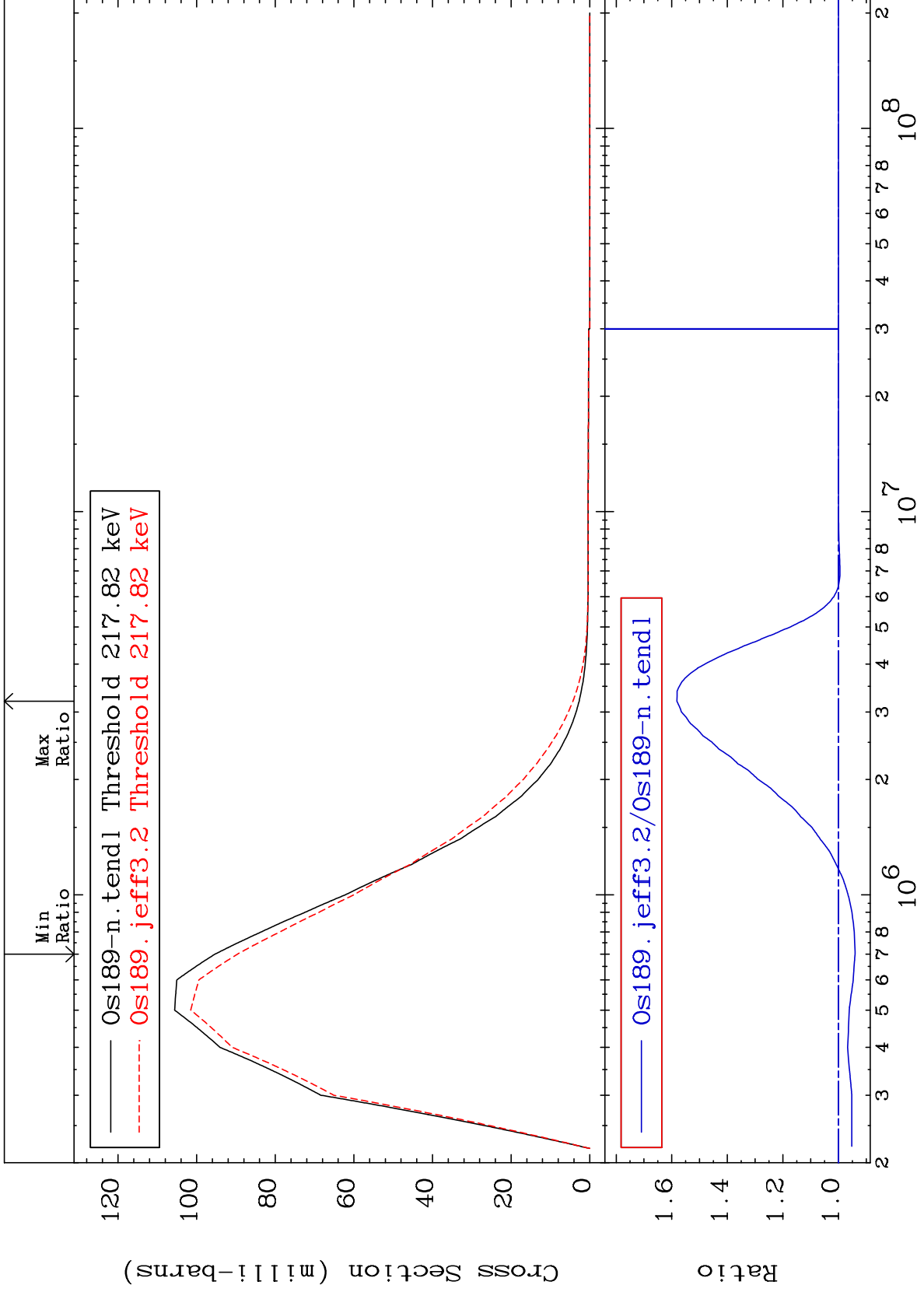
76-0s-189
-14.29 To 61.48 %



MAT 7640

216.7 keV (n,n') Level
Cross Section

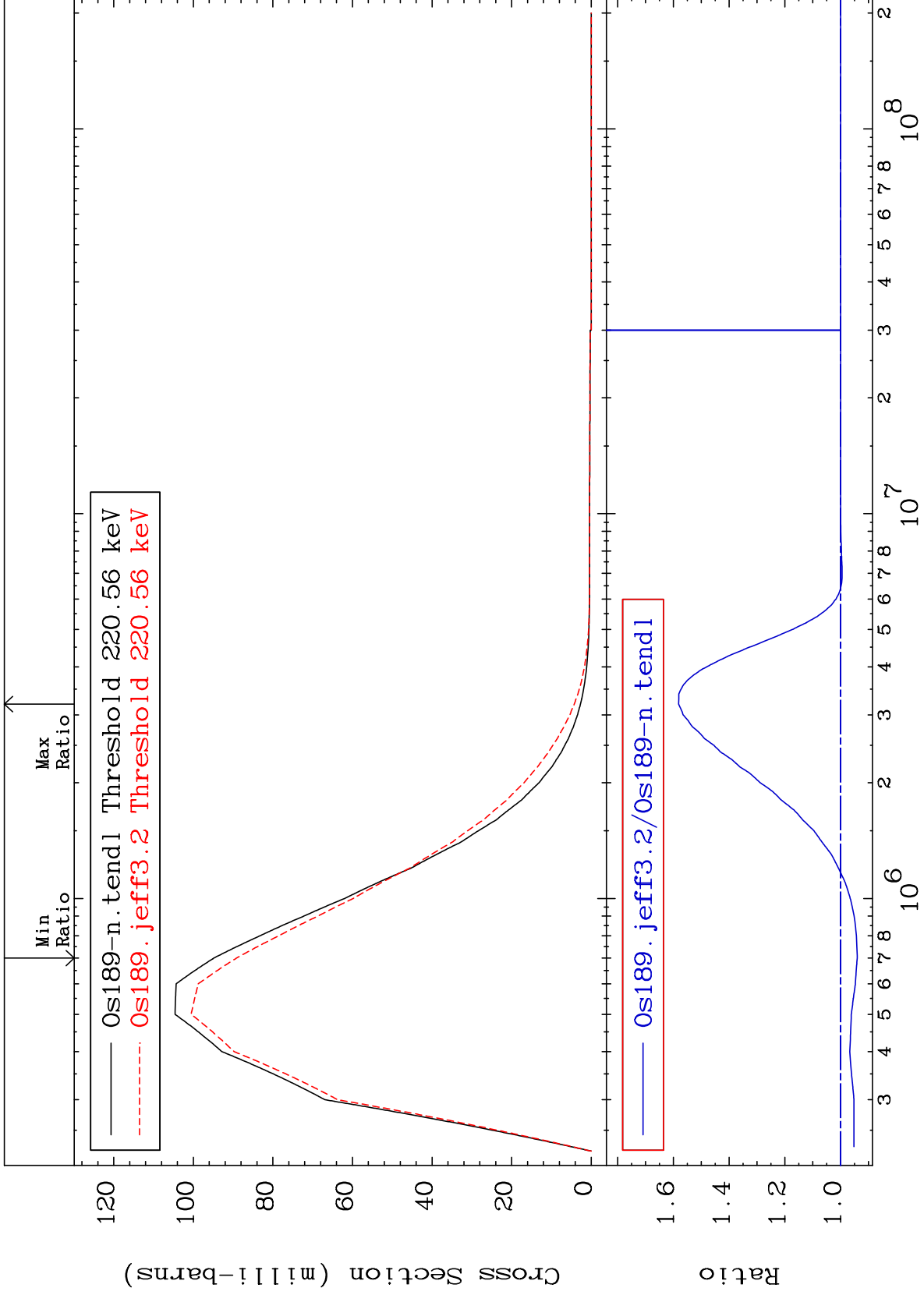
76-Os-189
-6.002 To 58.14 %



MAT 7640

219.4 keV (n,n') Level
Cross Section

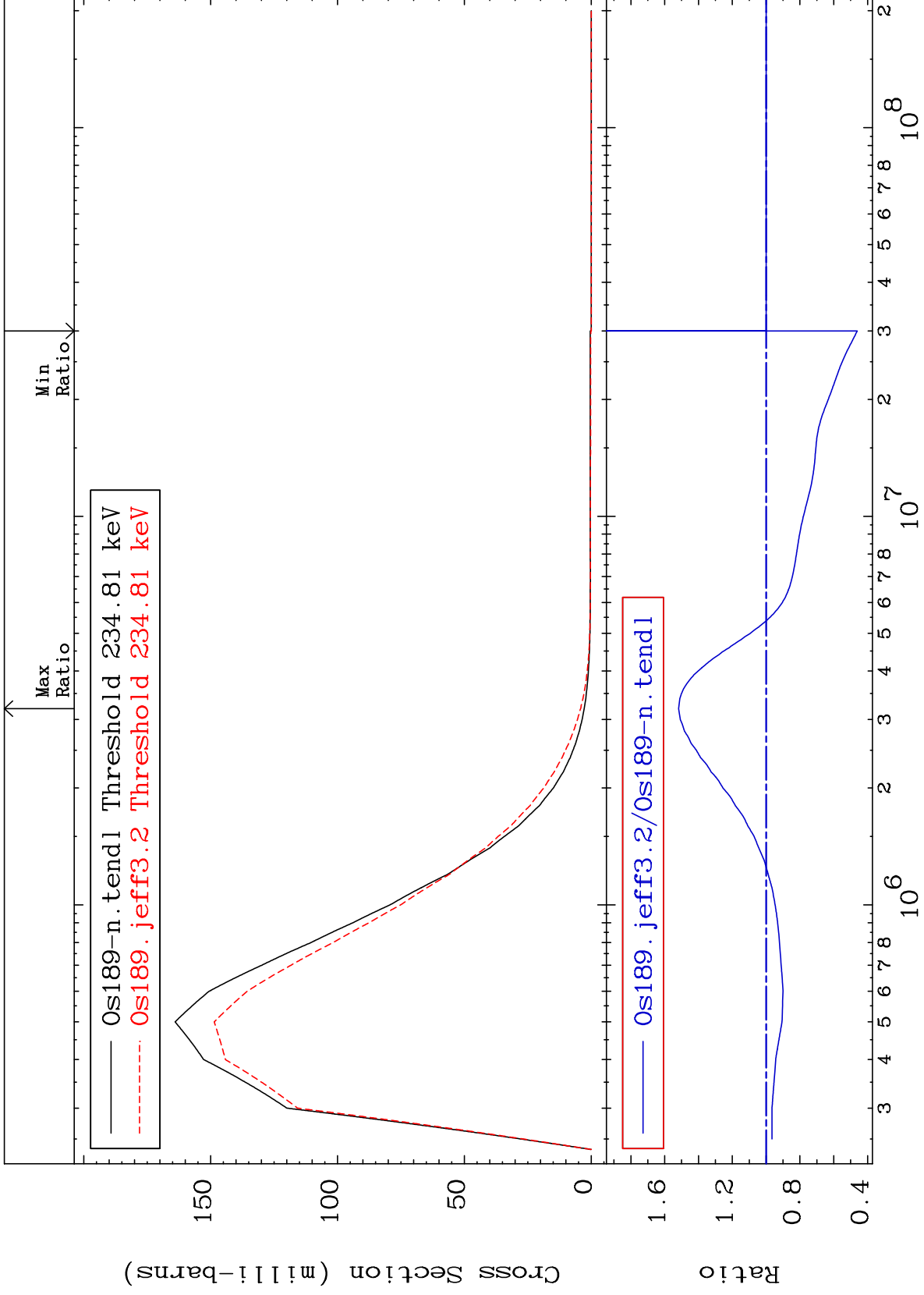
76-Os-189
-5.995 To 58.14 %



MAT 7640

233.6 keV (n,n') Level
Cross Section

76-0s-189
-53.90 To 51.75 %



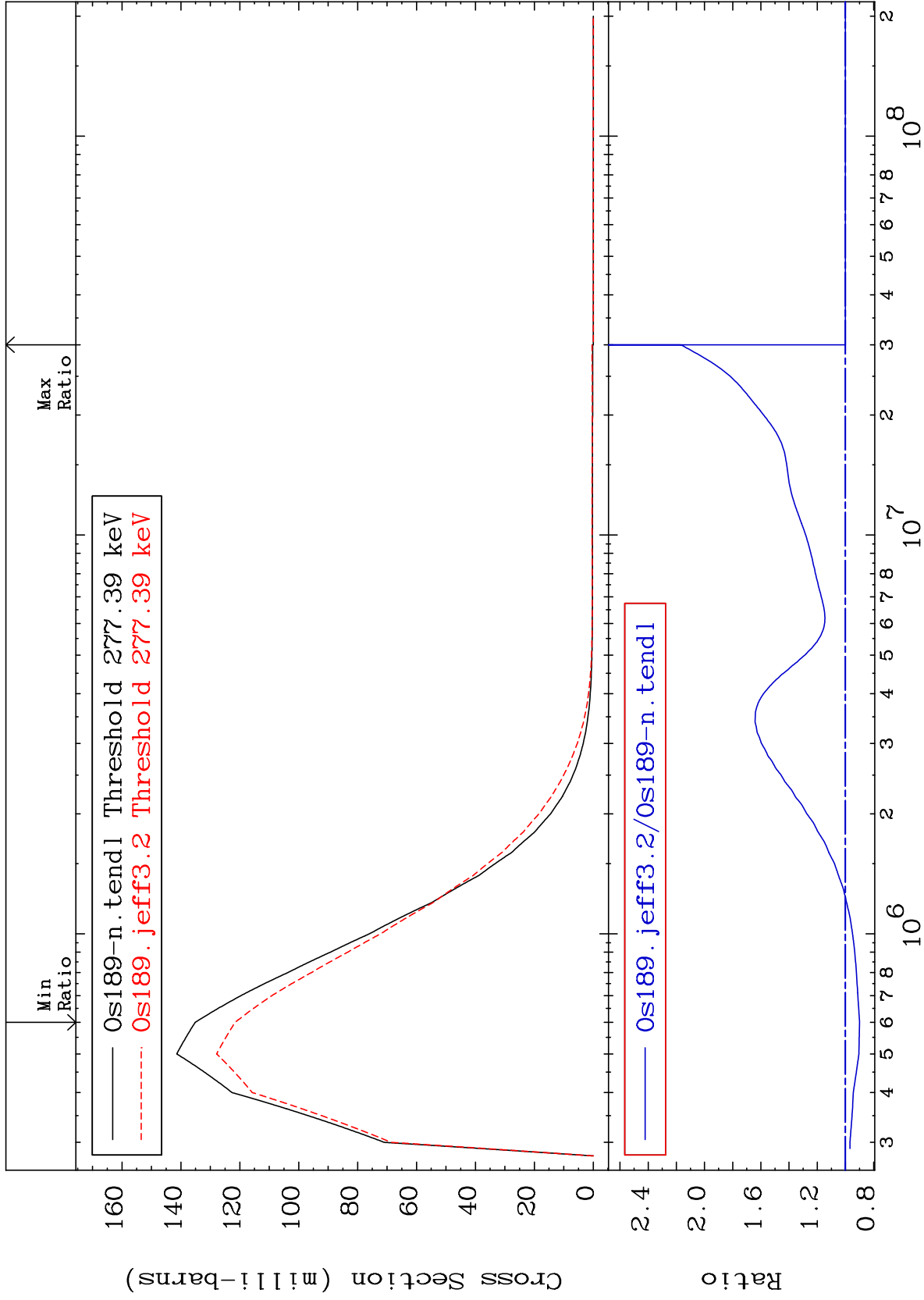
MAT 7640

275.9 keV (n,n') Level

76-Os-189

Cross Section

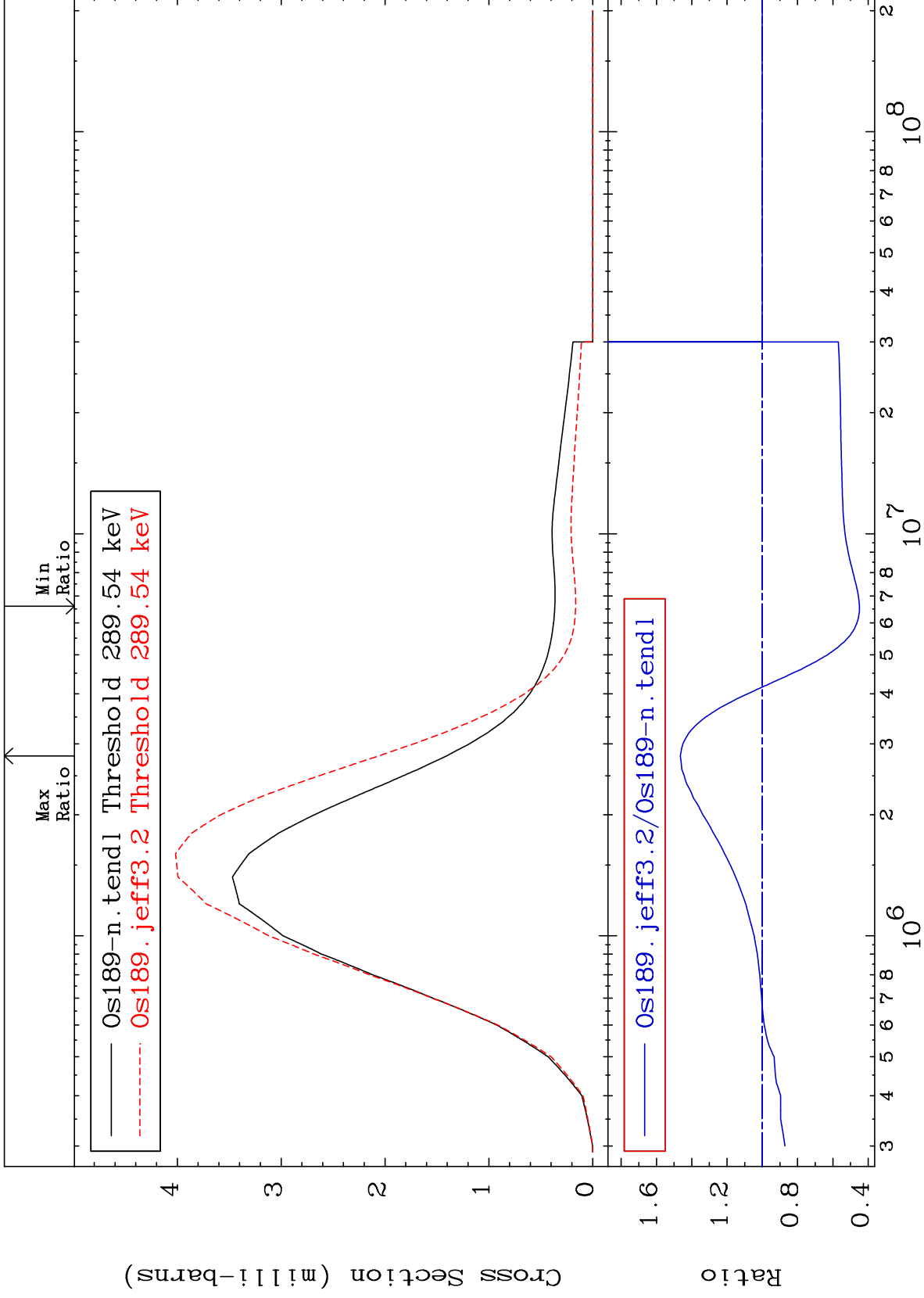
-10.02 To 116.9 %



MAT 7640

288.0 keV (n,n') Level
Cross Section

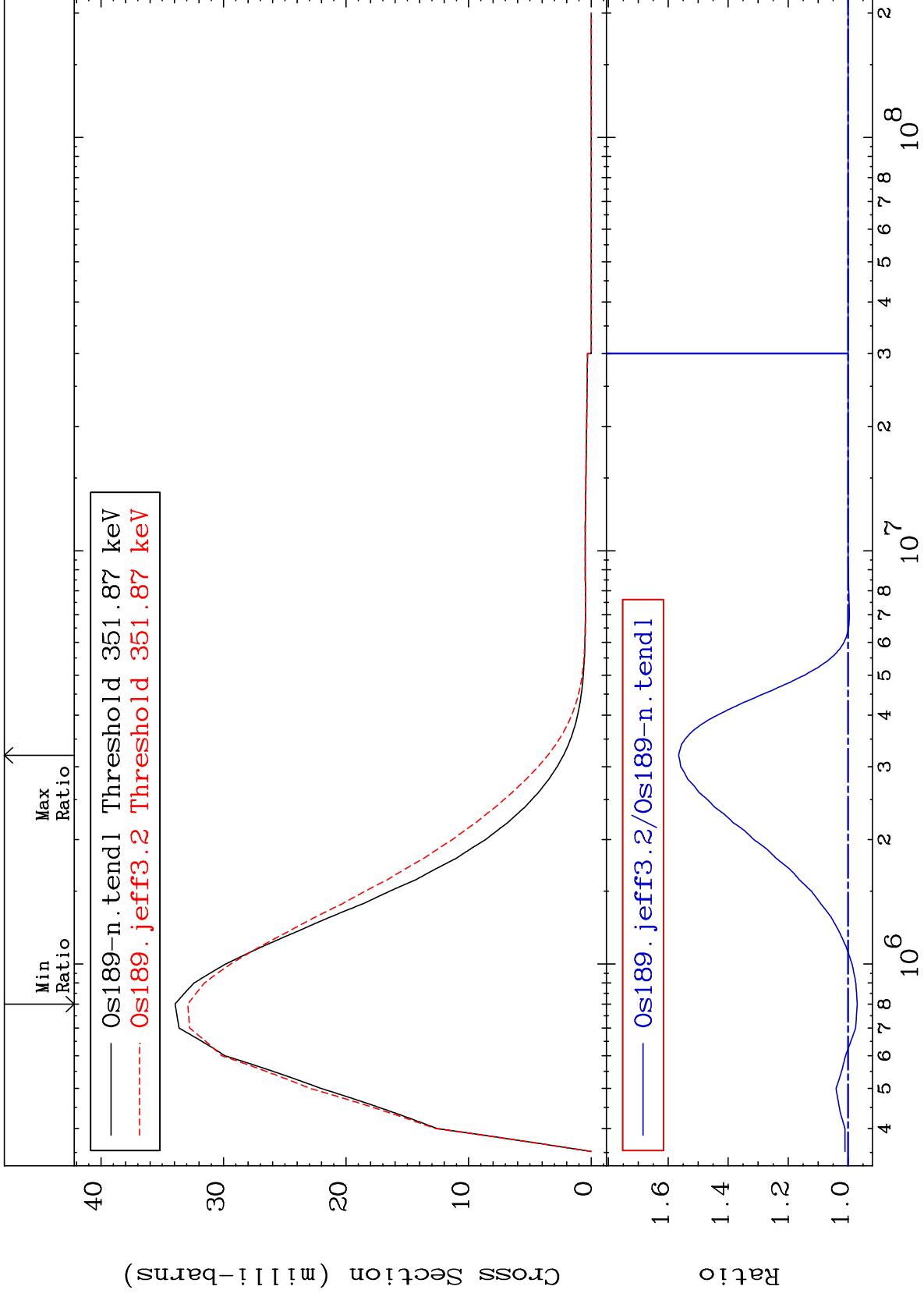
76-0s-189
-55.06 To 46.46 %



MAT 7640

350.0 keV (n,n') Level
Cross Section

76-Os-189
-3.081 To 56.54 %



30

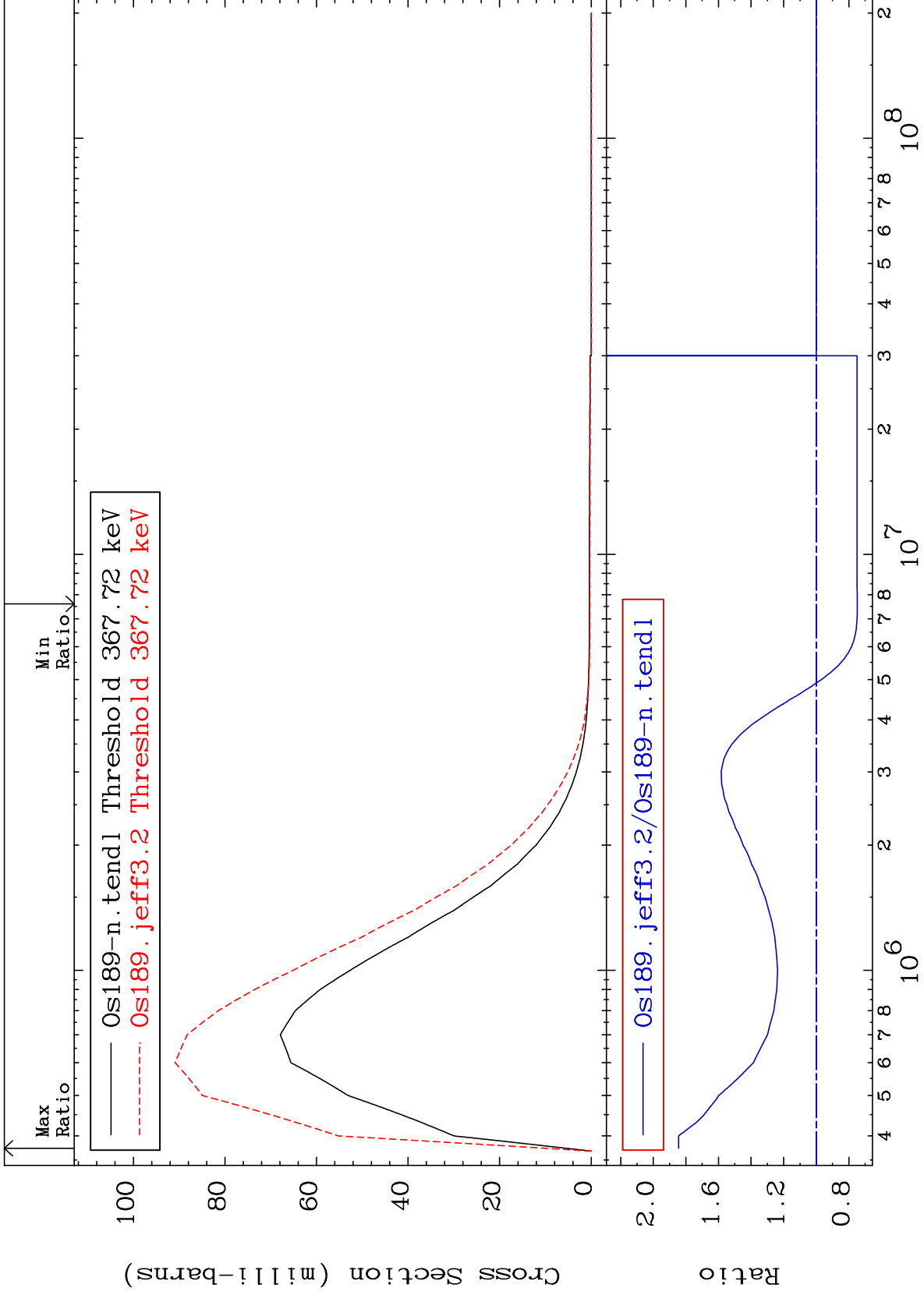
Incident Energy (eV)

76-Os-189

MAT 7640

365.8 keV (n,n') Level
Cross Section

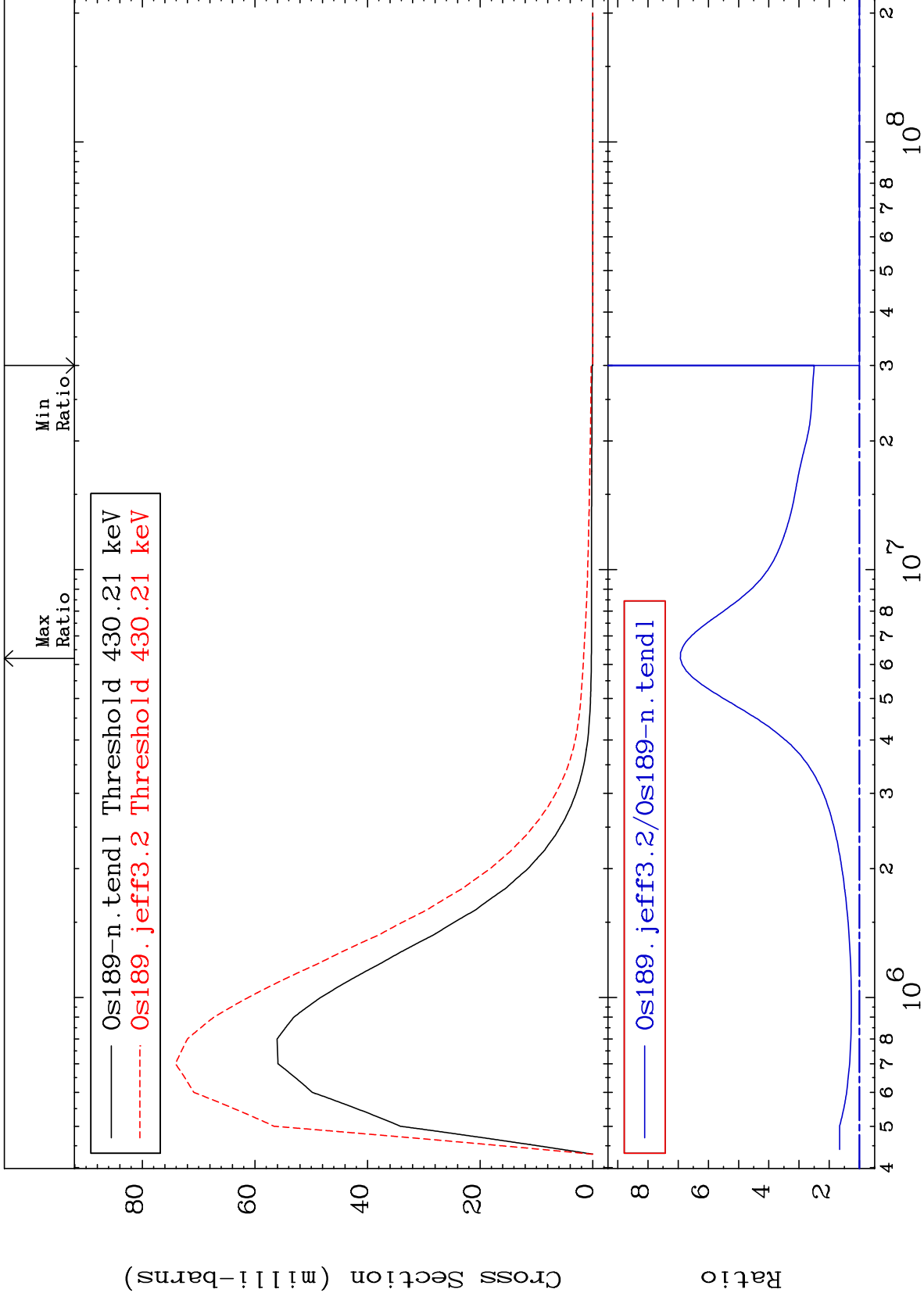
76-0s-189
-25.15 To 84.44 %



MAT 7640

427.9 keV (n,n') Level
Cross Section

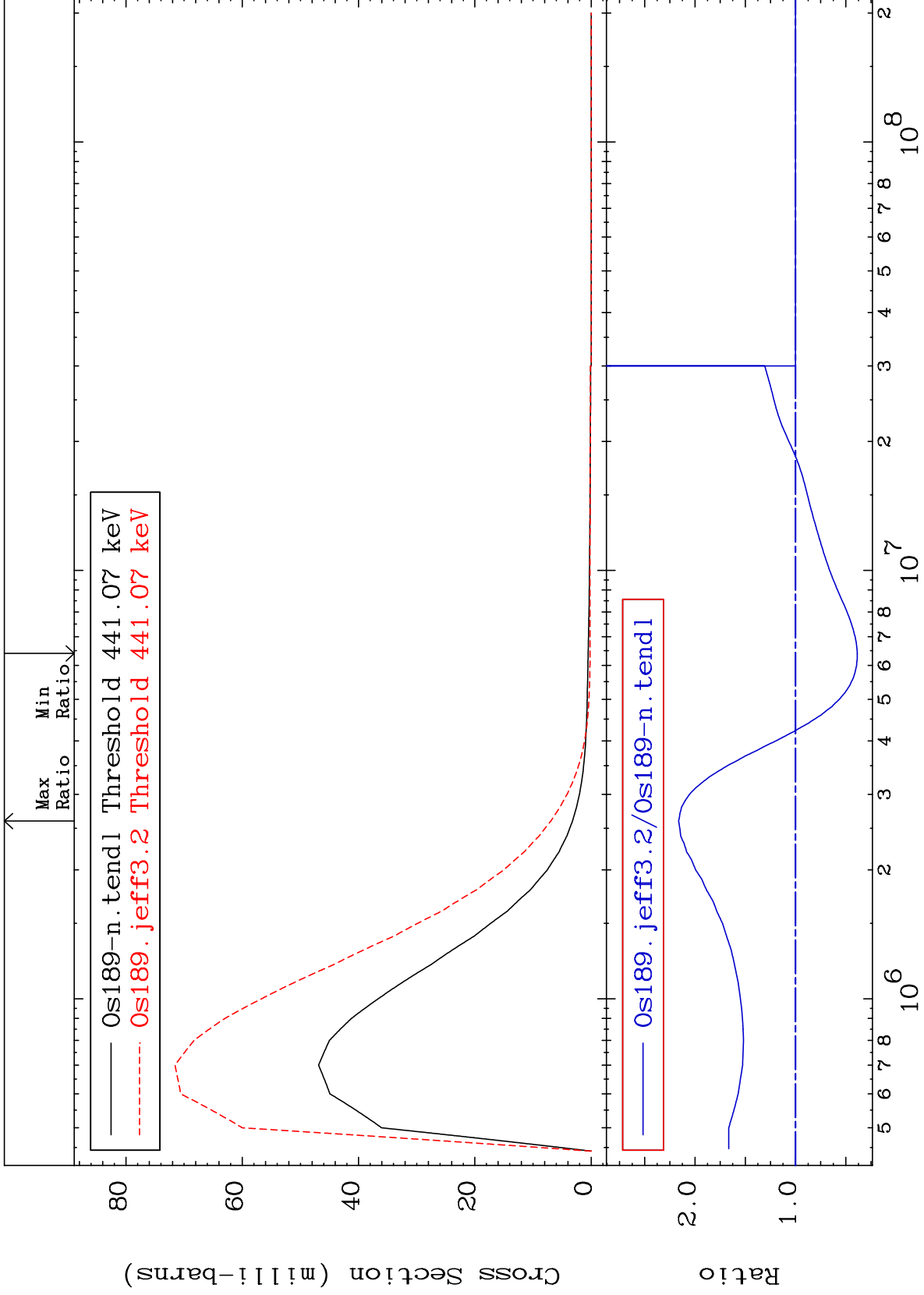
76-0s-189
0.000 To 592.9 %



MAT 7640

438.7 keV (n,n') Level
Cross Section

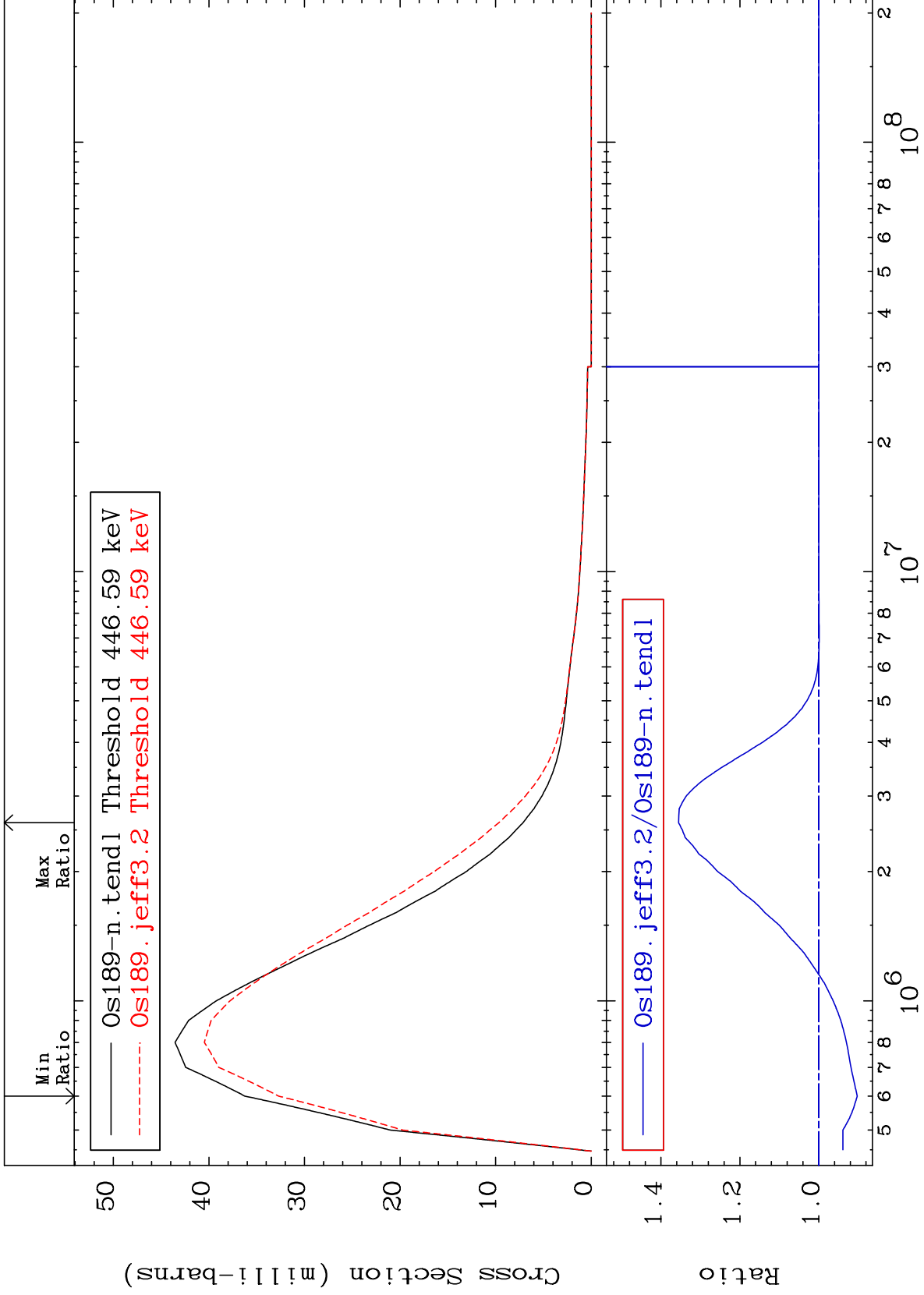
76-Os-189
-61.31 To 116.3 %



MAT 7640

444.2 keV (n,n') Level
Cross Section

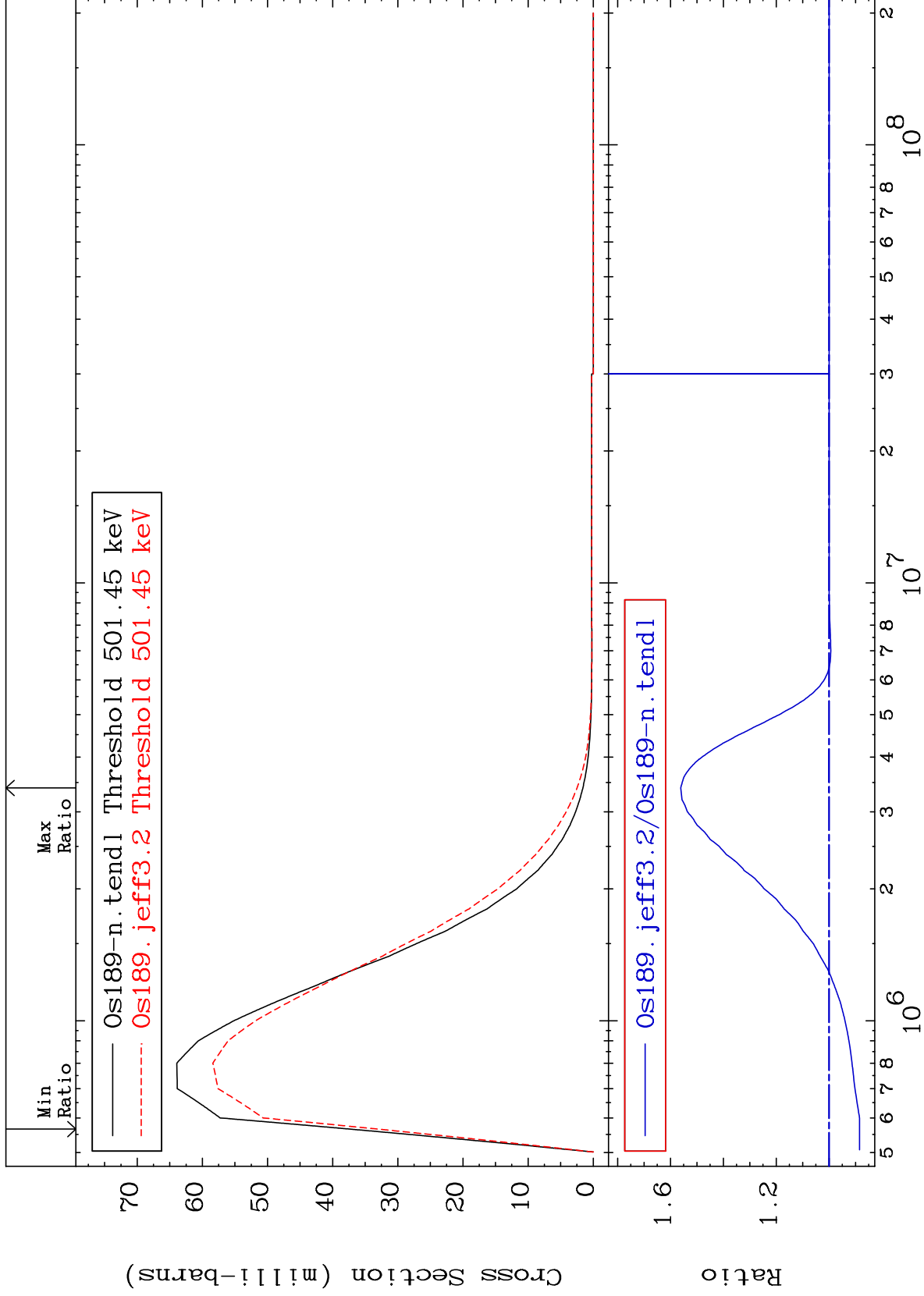
76-0s-189
-9.767 To 35.53 %



MAT 7640

498.8 keV (n,n') Level
Cross Section

76-0s-189
-11.54 To 56.09 %



35

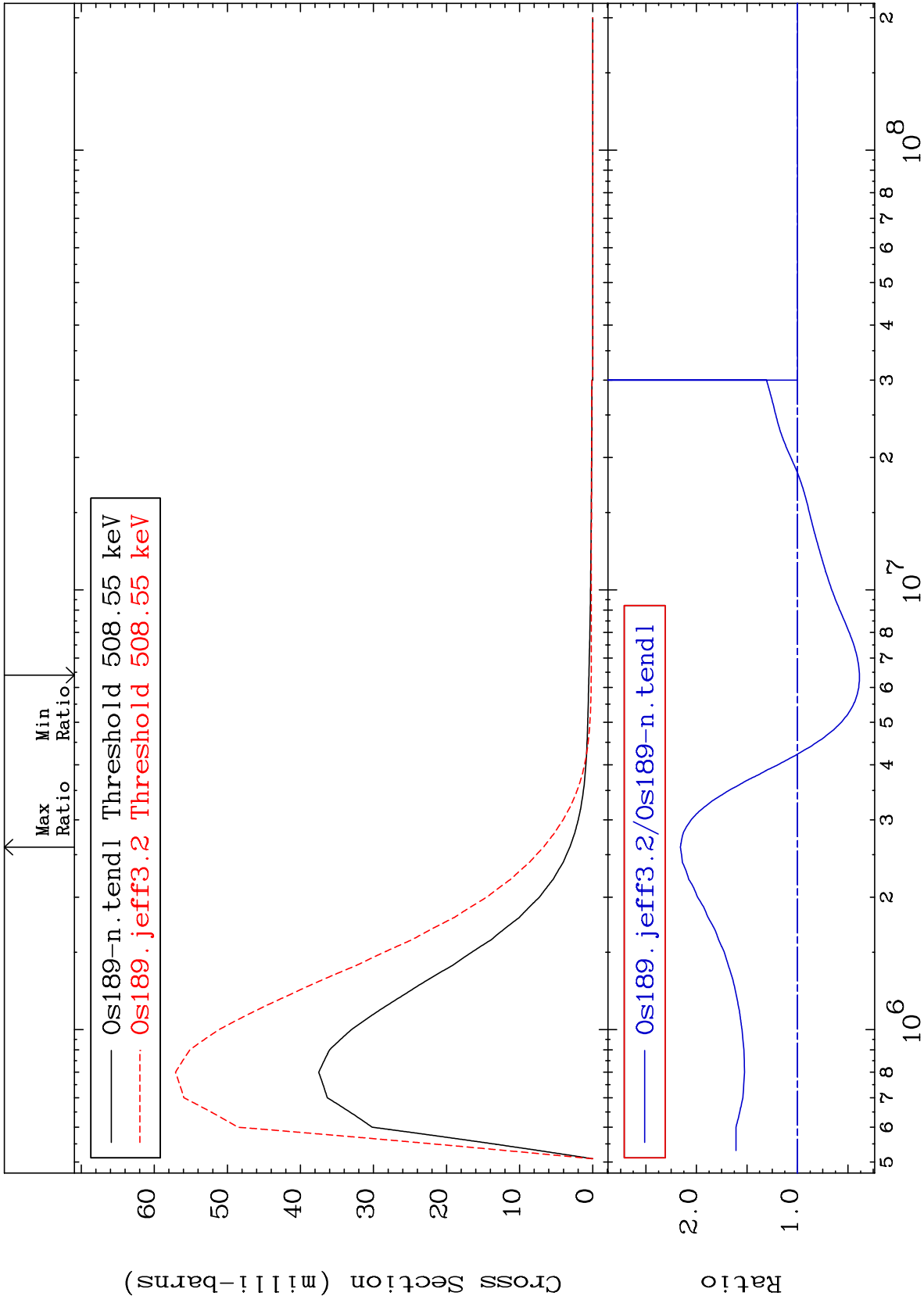
Incident Energy (eV)

76-0s-189

MAT 7640

505.8 keV (n,n') Level
Cross Section

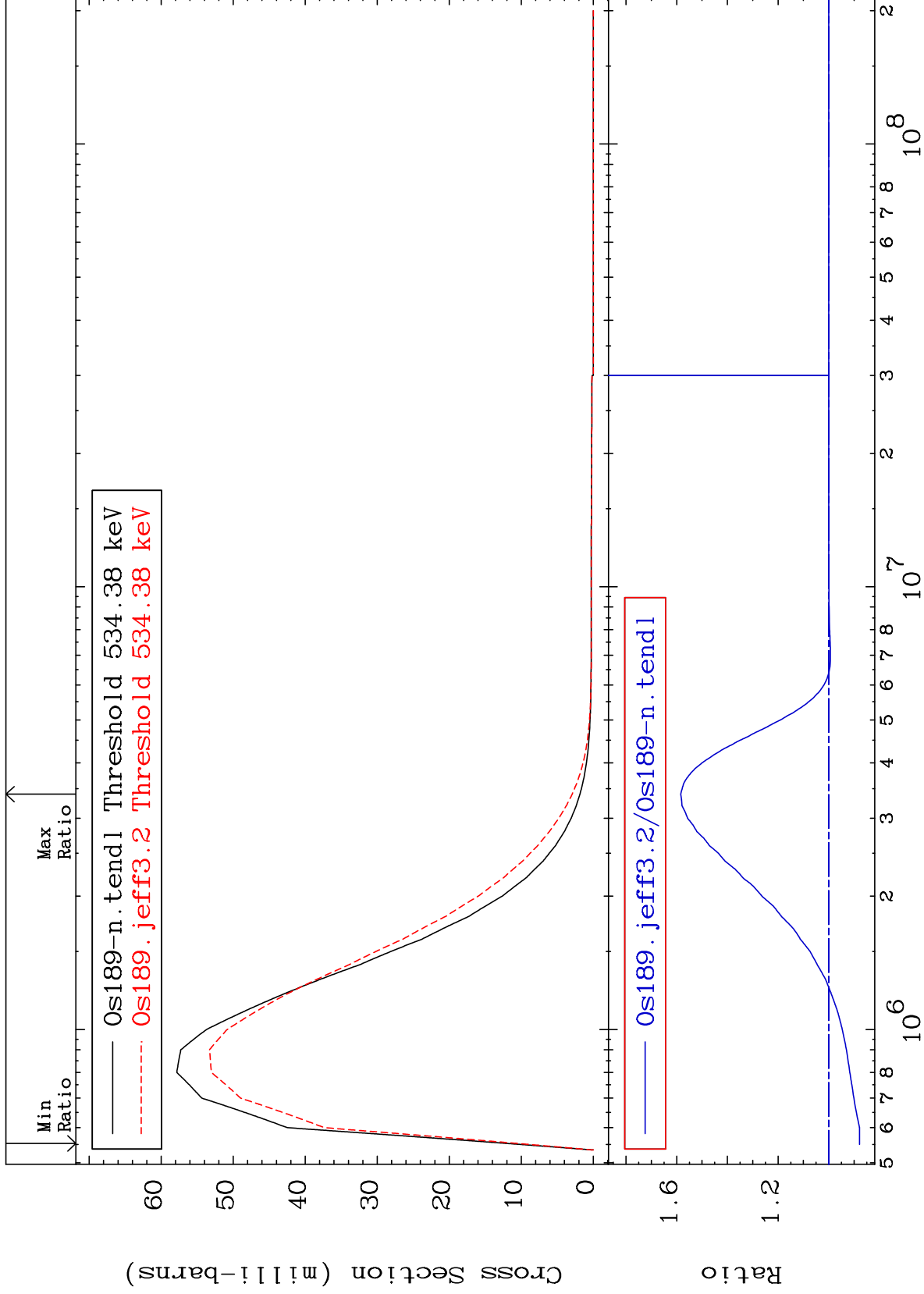
76-0s-189
-61.30 To 115.9 %



MAT 7640

531.5 keV (n,n') Level
Cross Section

76-0s-189
-12.14 To 58.39 %



37

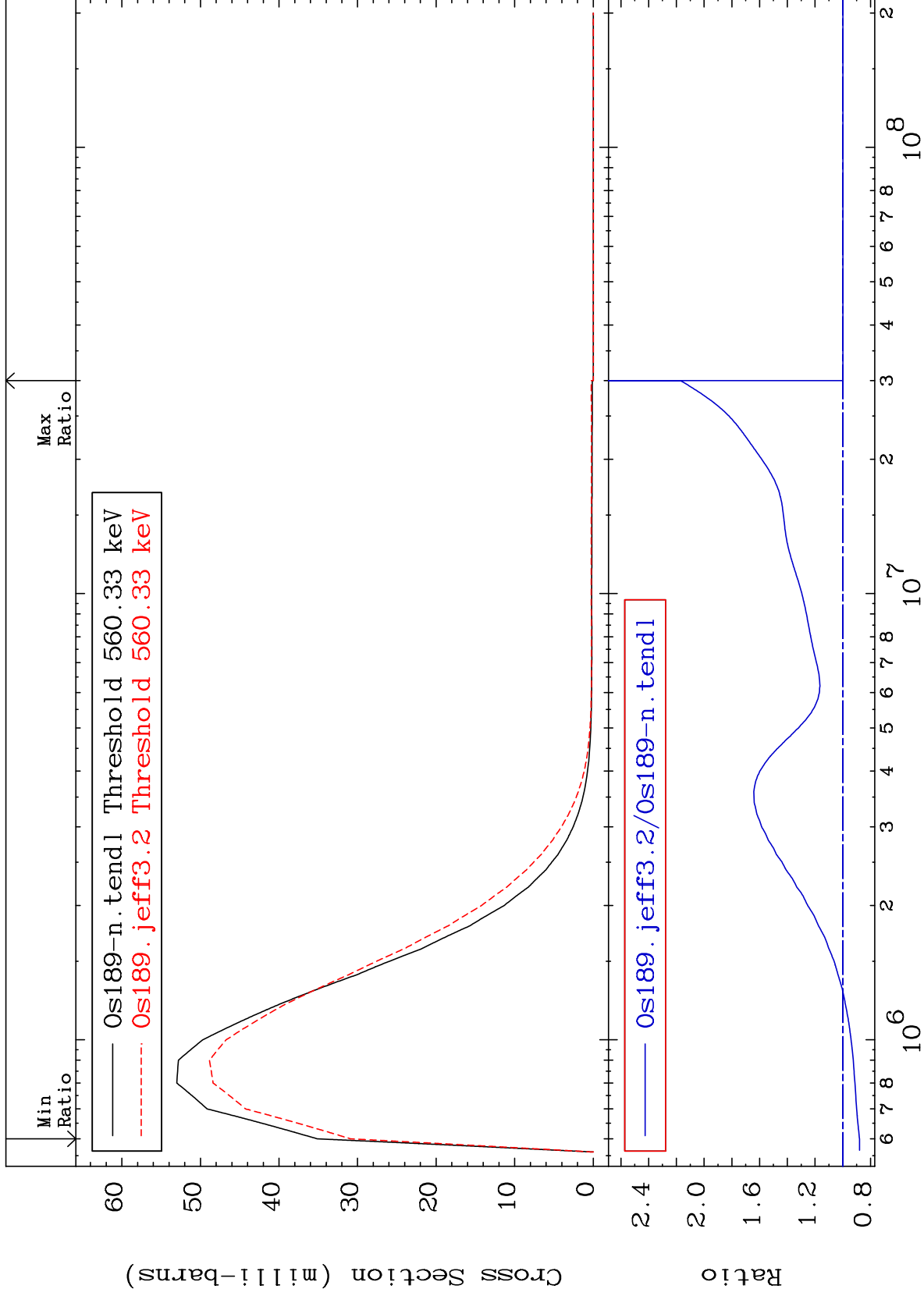
Incident Energy (eV)

76-0s-189

MAT 7640

557.4 keV (n,n') Level
Cross Section

76-Os-189
-12.07 To 116.8 %



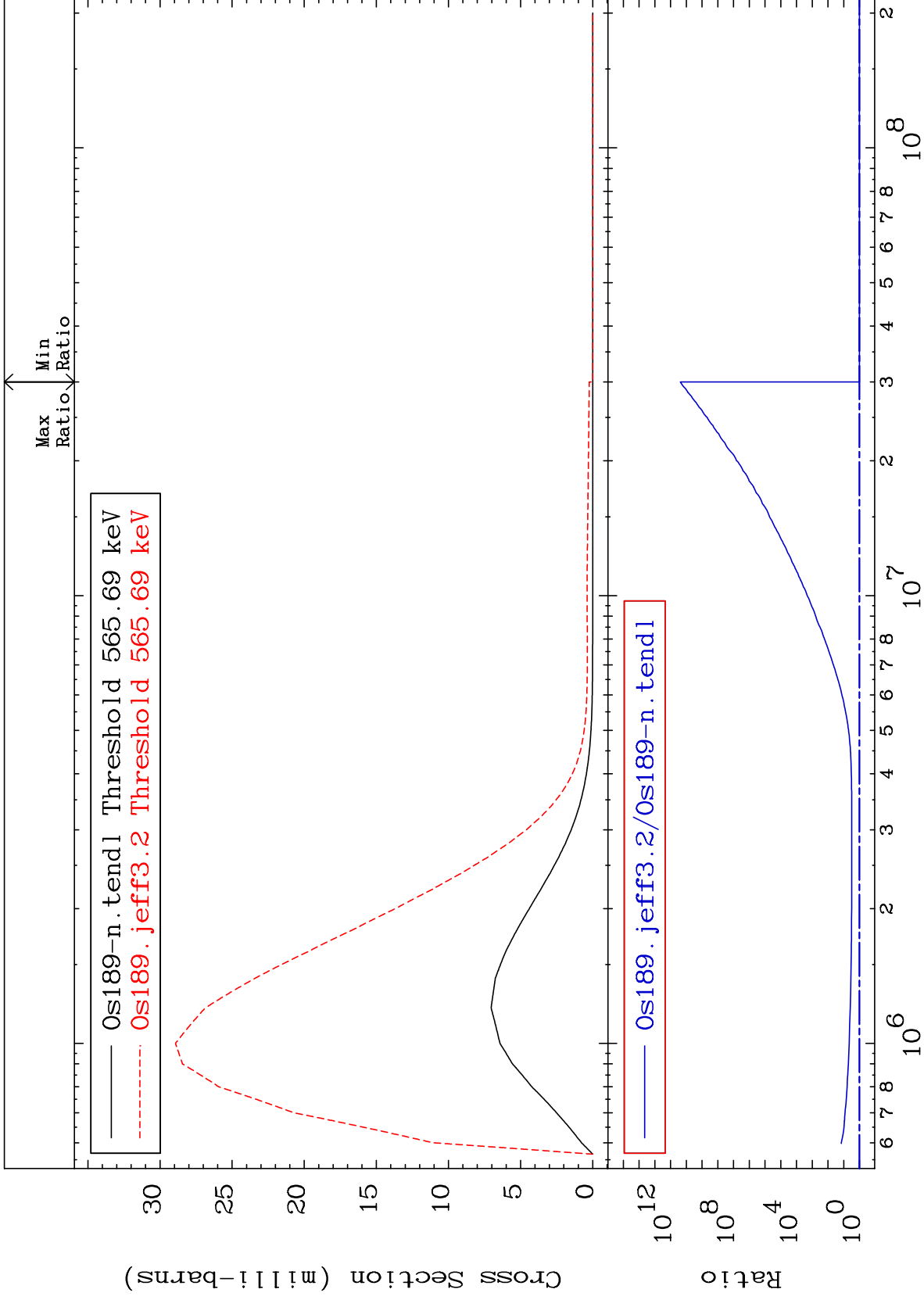
39

76-Os-189

MAT 7640

562.7 keV (n,n') Level
Cross Section

76-Os-189
0.000 To 9999. %



40

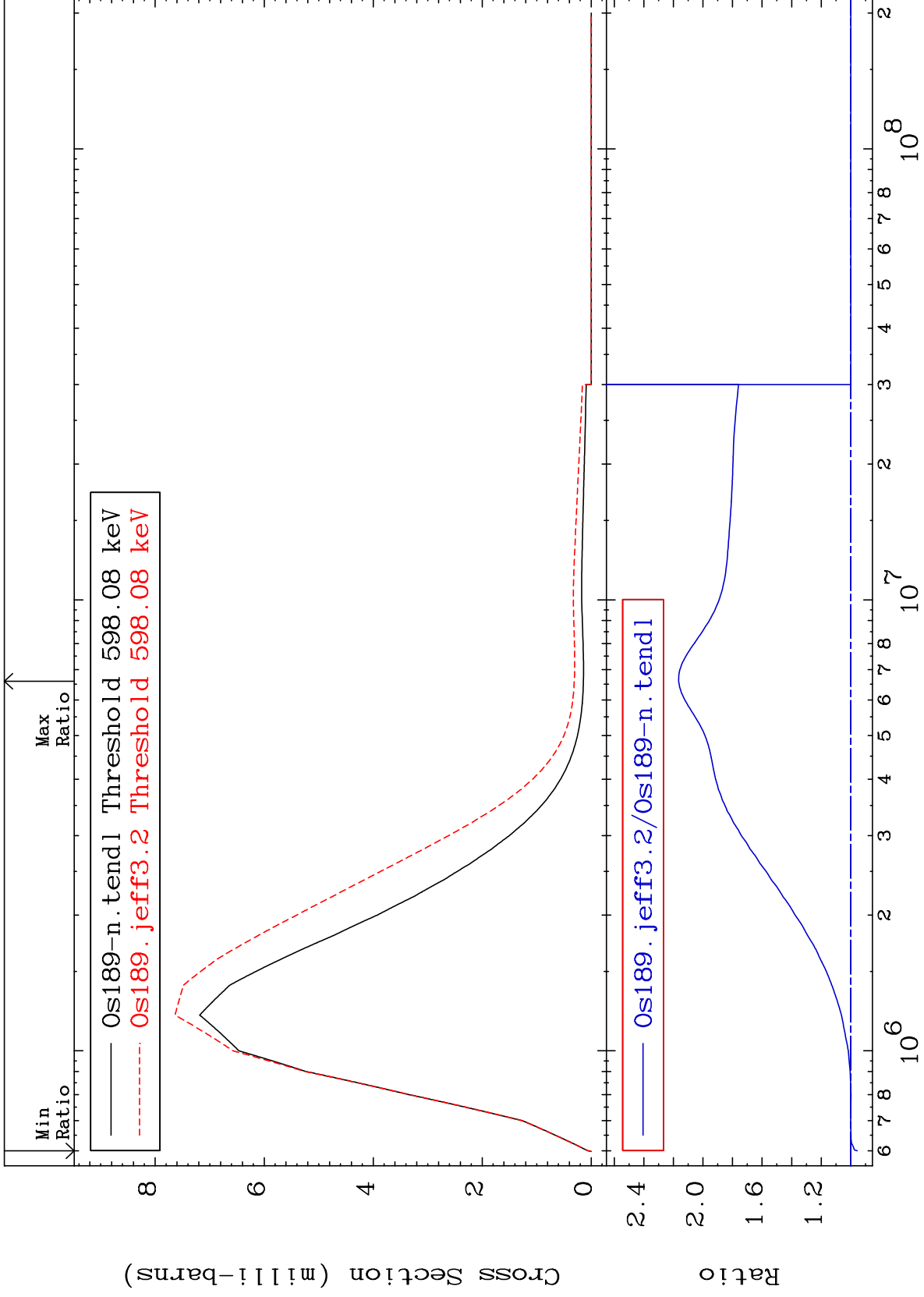
Incident Energy (eV)

76-Os-189

MAT 7640

594.9 keV (n,n') Level
Cross Section

76-0s-189
-4.385 To 116.4 %



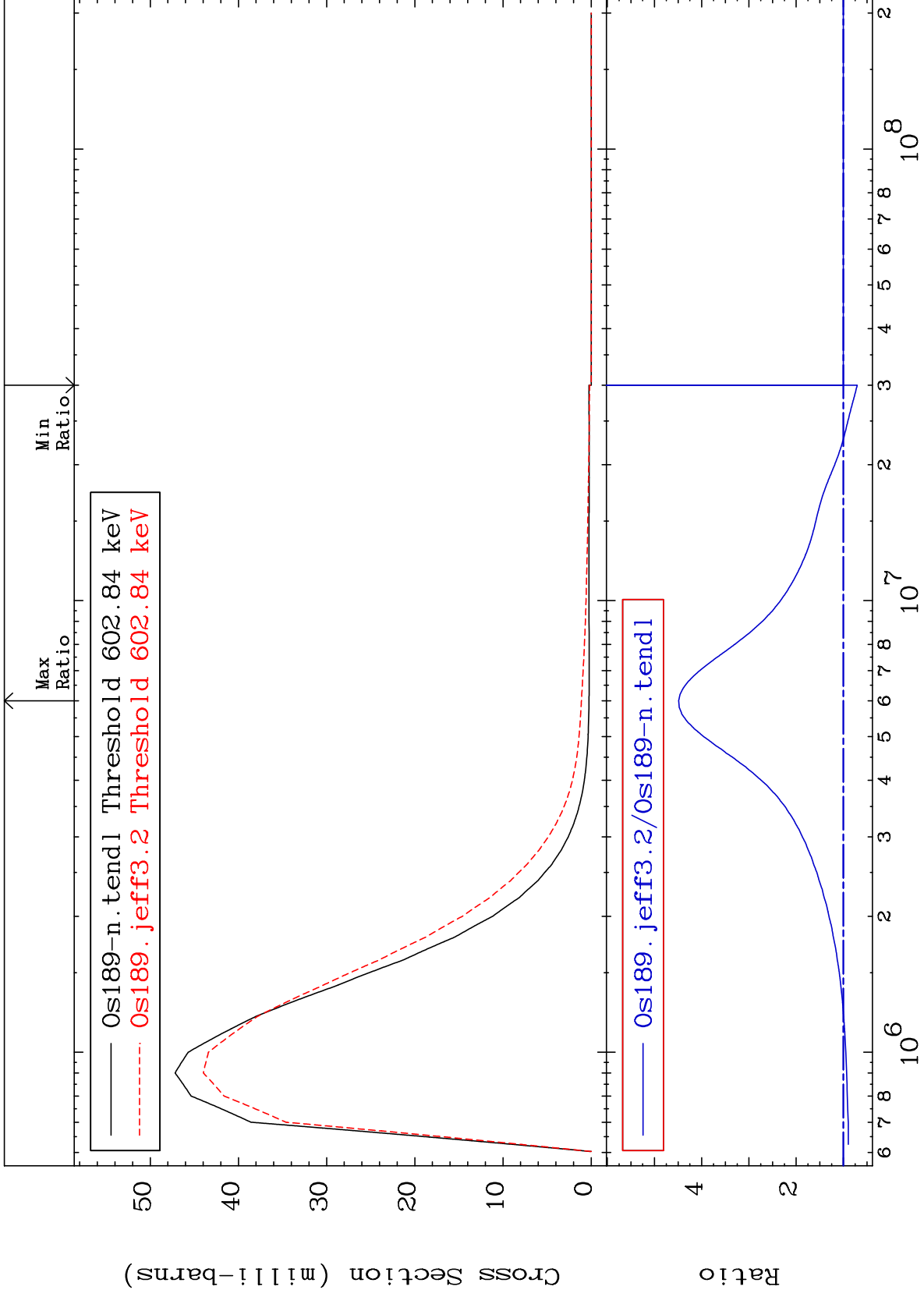
41

76-0s-189

MAT 7640

599.6 keV (n,n') Level
Cross Section

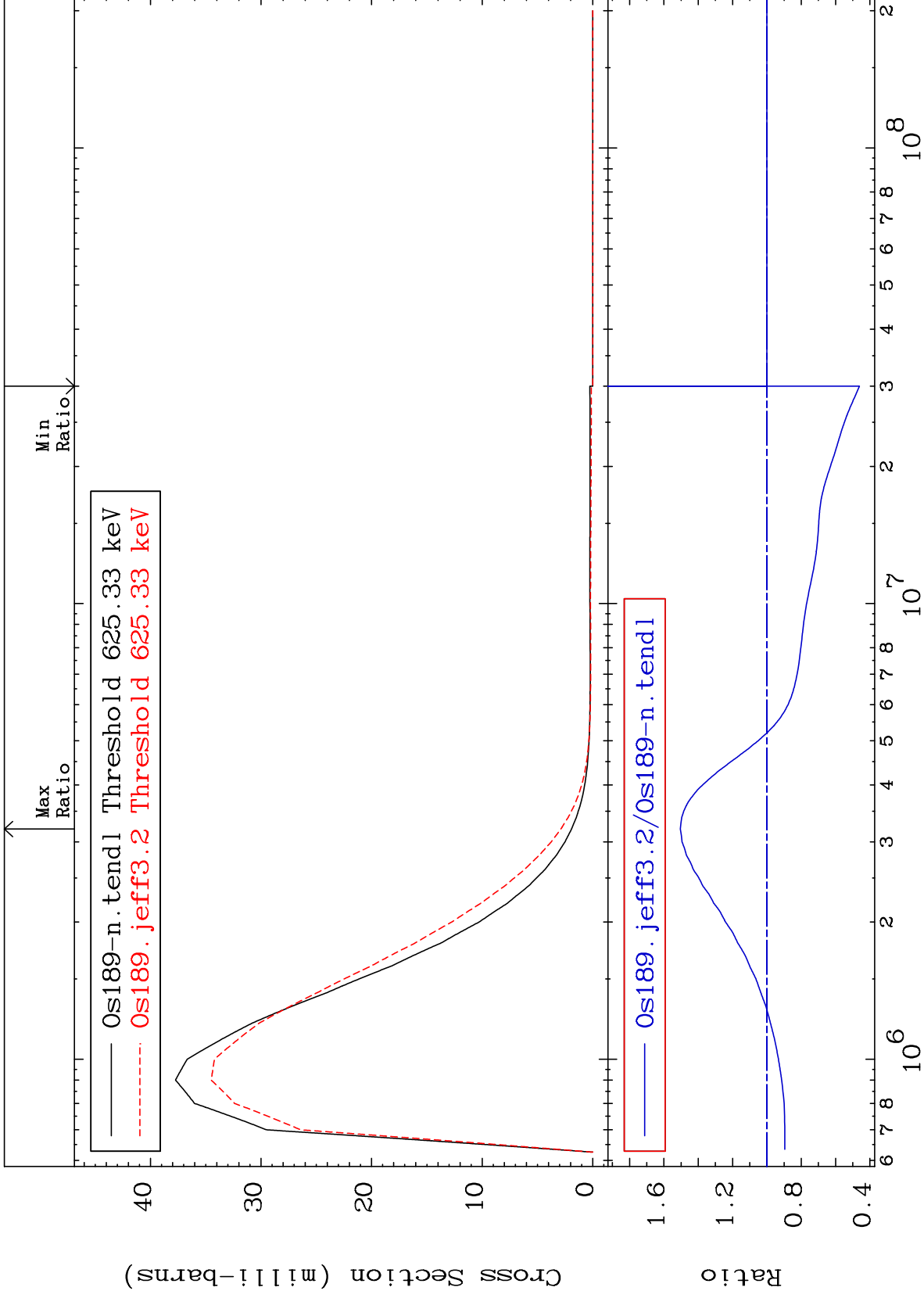
76-0s-189
-29.32 To 348.9 %



MAT 7640

622.0 keV (n,n') Level
Cross Section

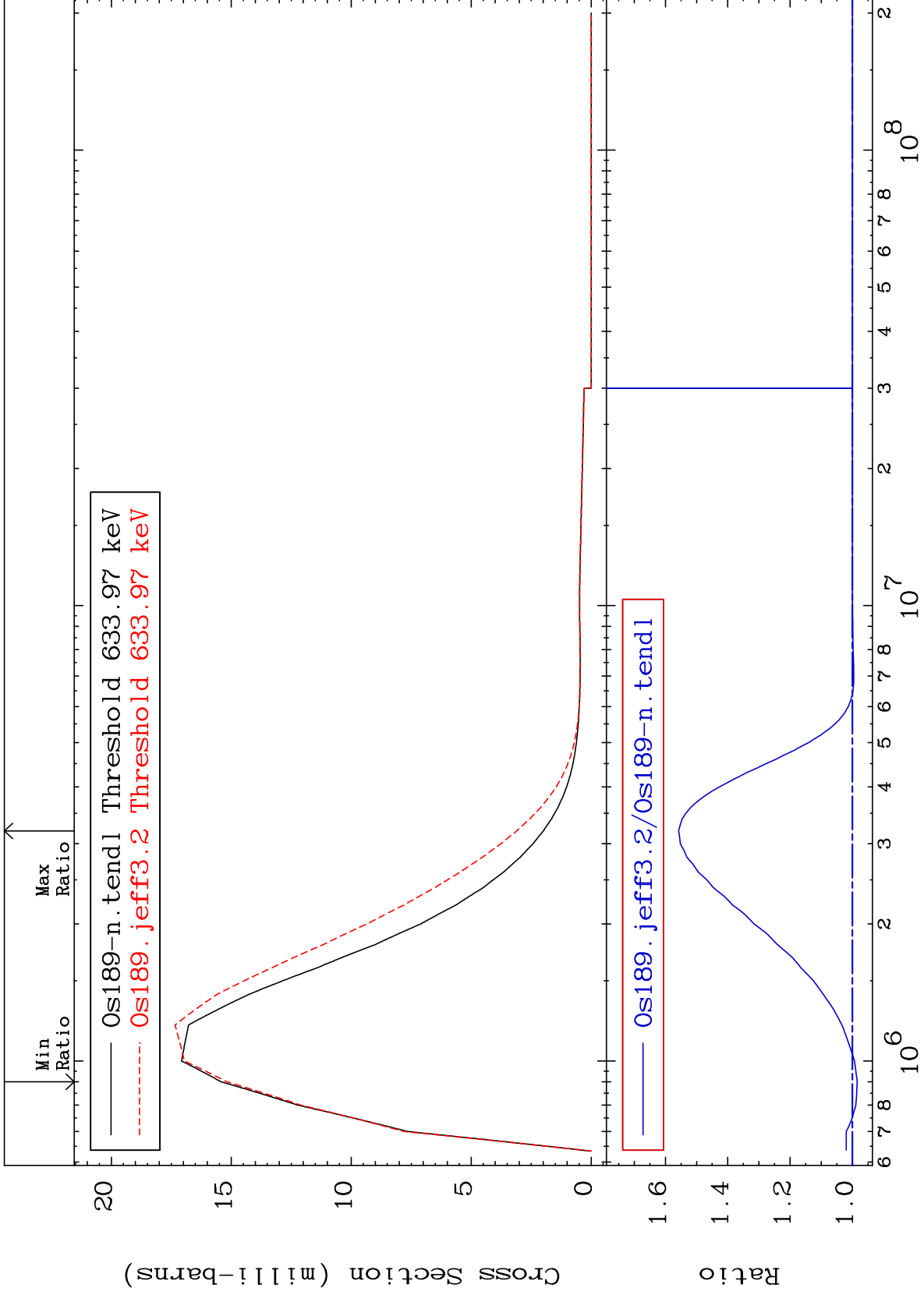
76-0s-189
-53.88 To 50.42 %



MAT 7640

630.6 keV (n,n') Level
Cross Section

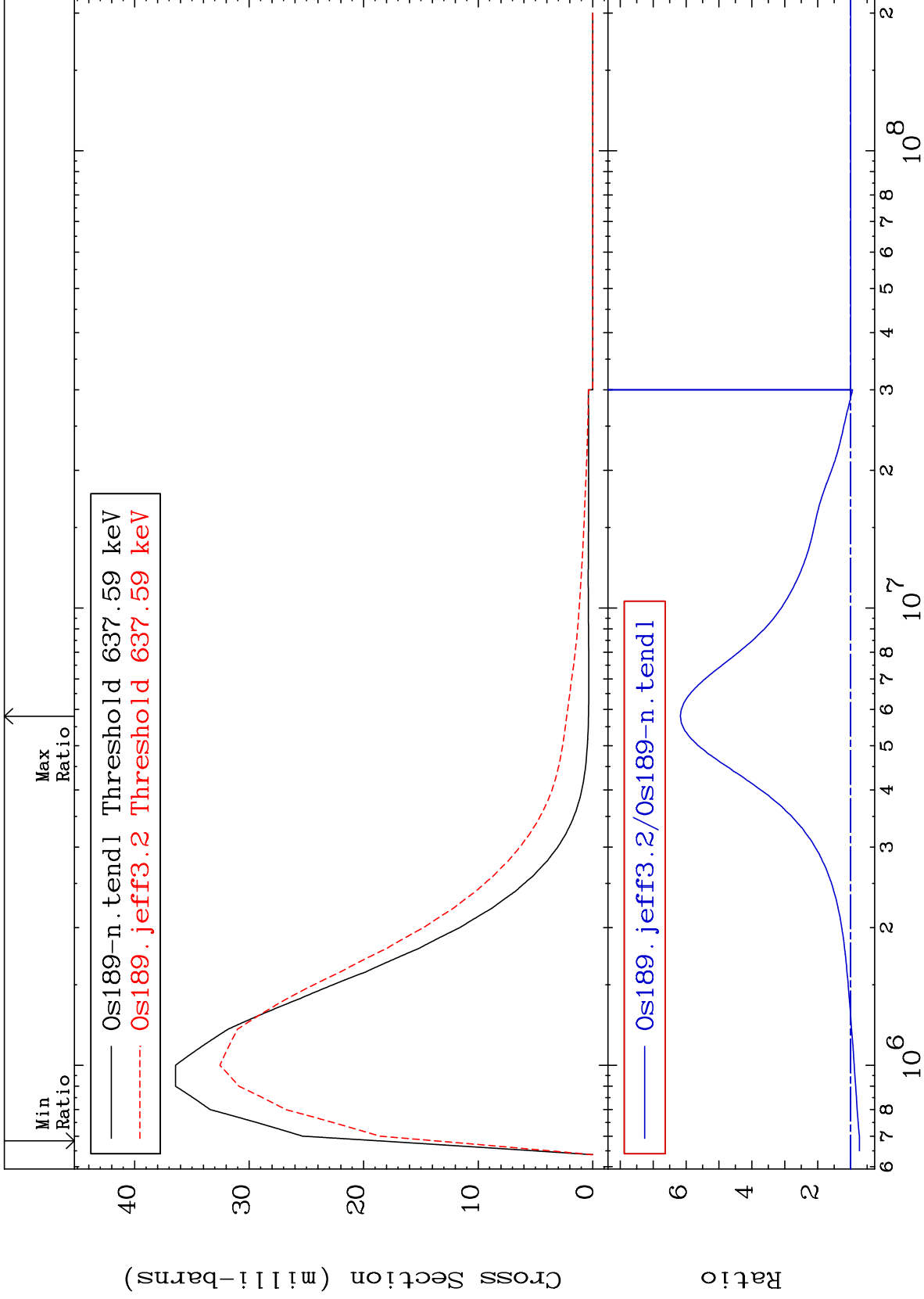
76-Os-189
-1.550 To 55.76 %



MAT 7640

634.2 keV (n,n') Level
Cross Section

76-0s-189
-26.56 To 517.3 %



45

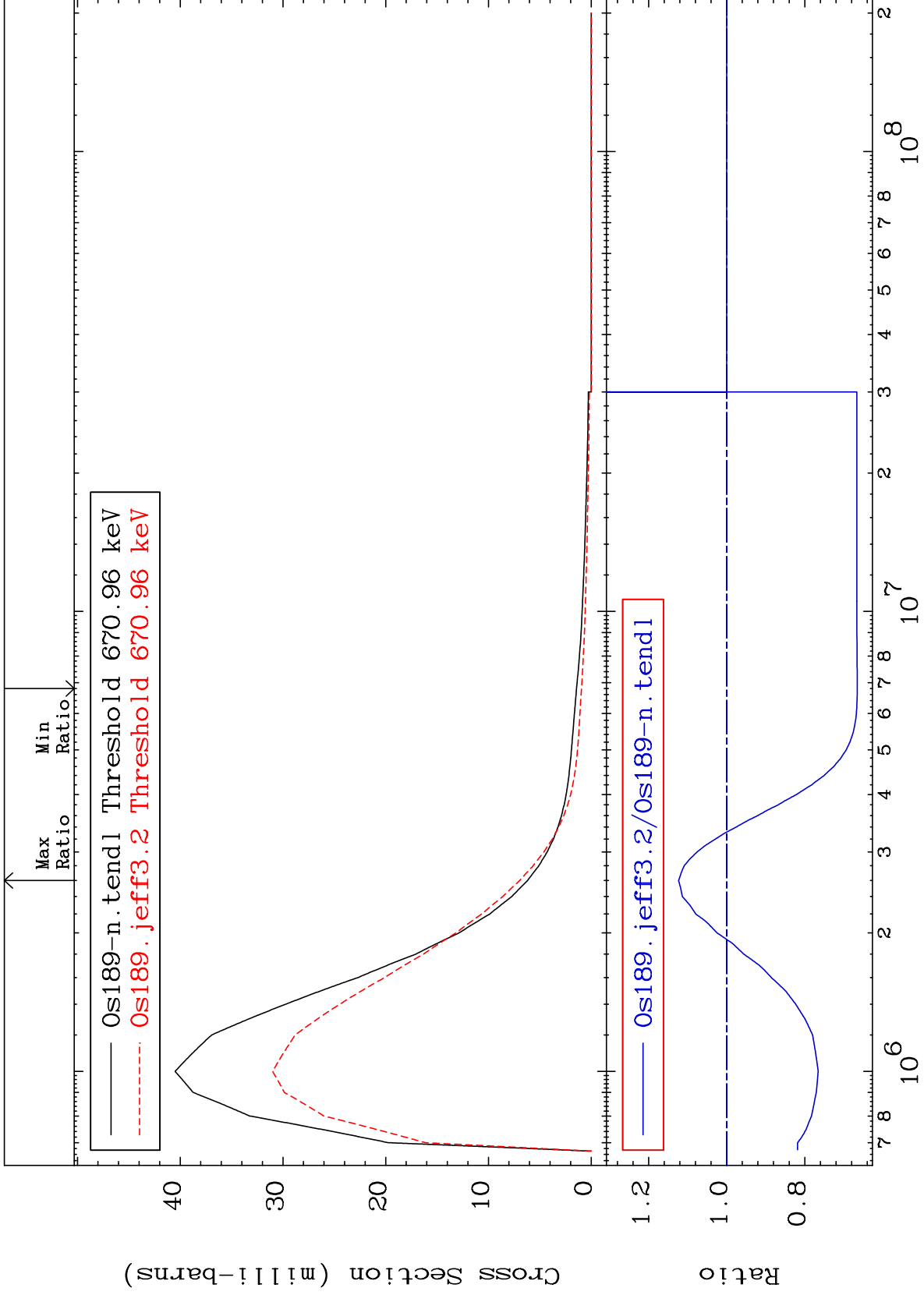
Incident Energy (eV)

76-0s-189

MAT 7640

667.4 keV (n,n') Level
Cross Section

76-0s-189
-33.46 To 12.32 %



46

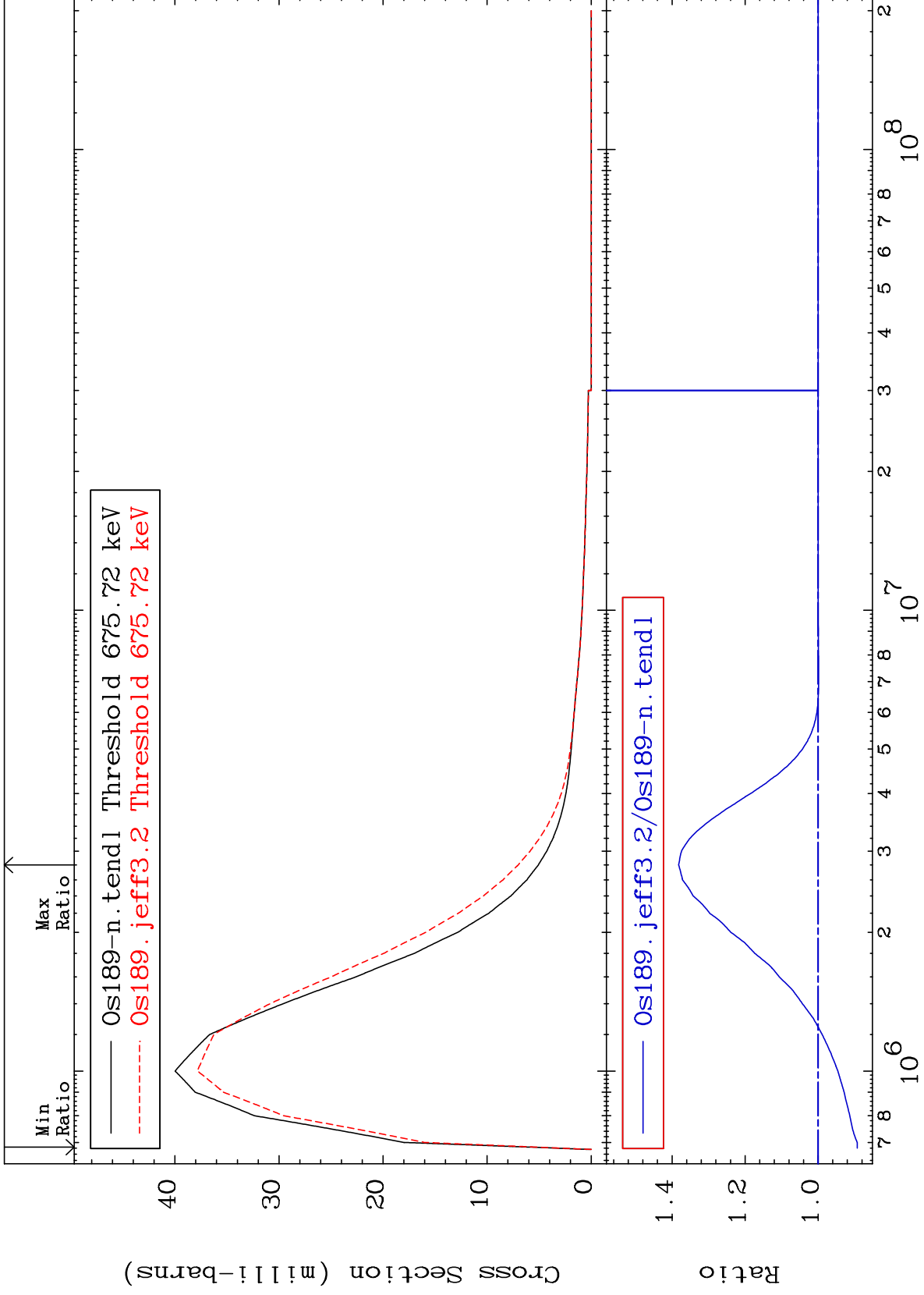
Incident Energy (eV)

76-0s-189

MAT 7640

672.1 keV (n,n') Level
Cross Section

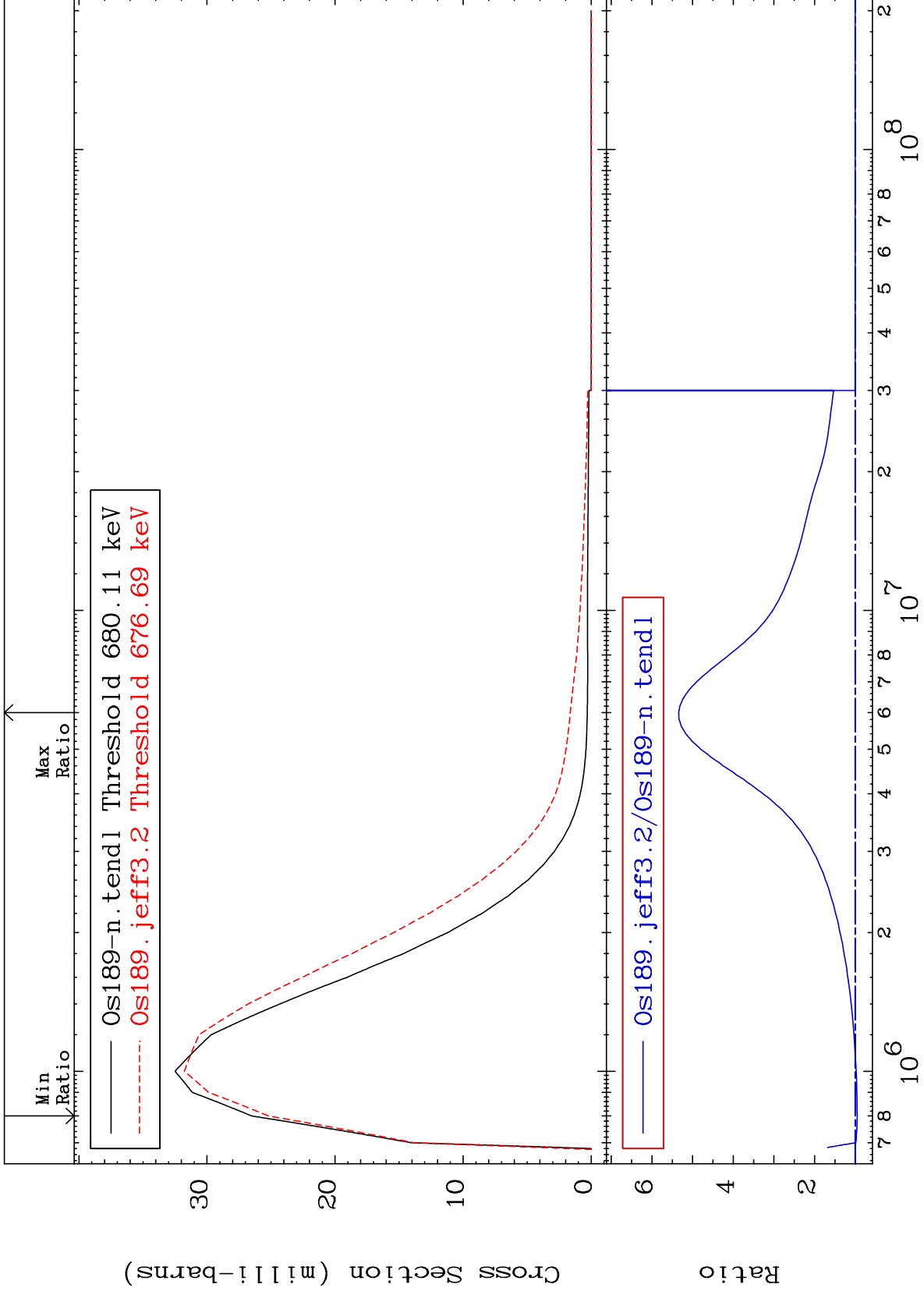
76-0s-189
-10.71 To 38.21 %



MAT 7640

676.5 keV (n,n') Level
Cross Section

76-0s-189
-4.917 To 434.3 %



48

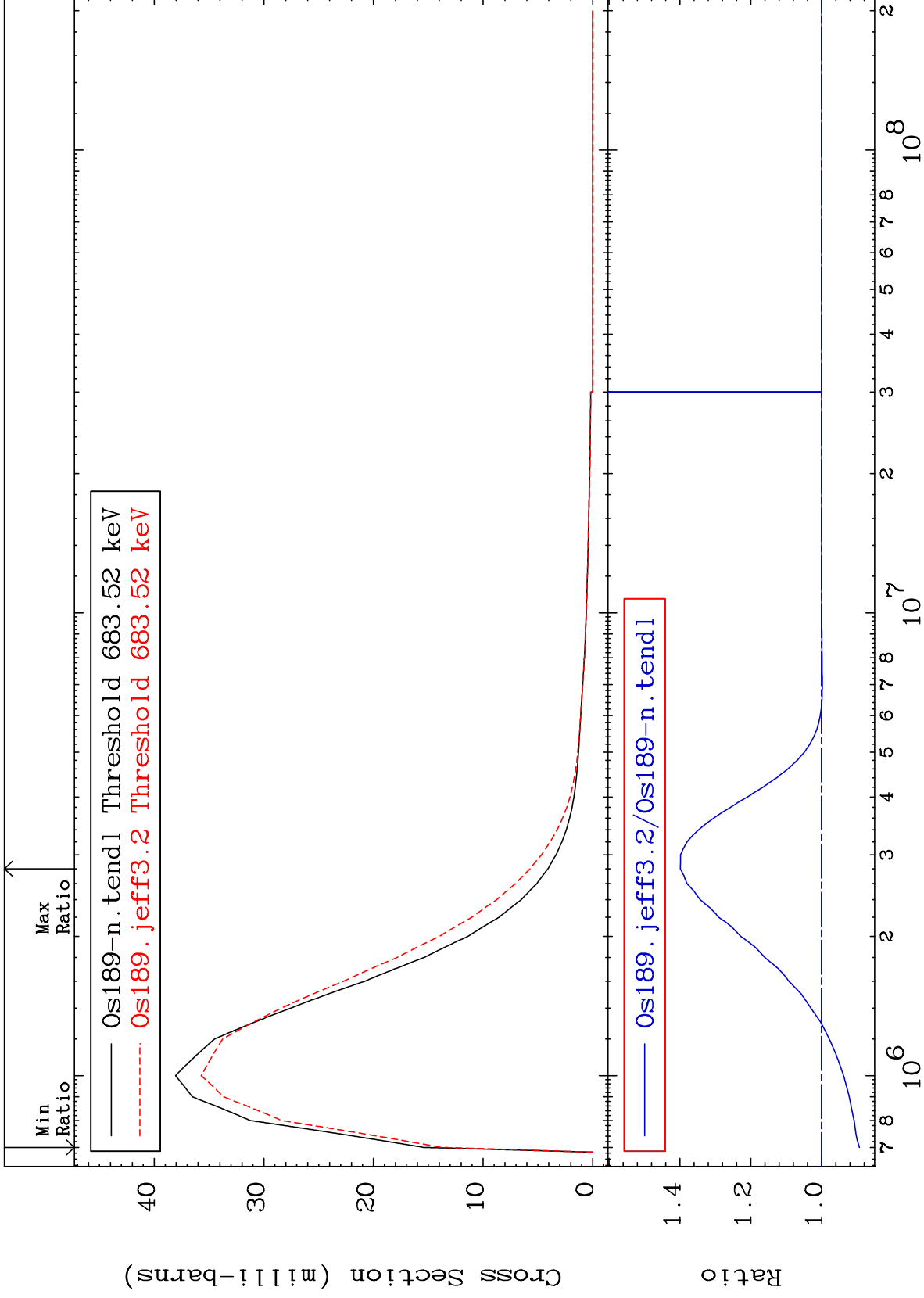
Incident Energy (eV)

76-0s-189

MAT 7640

679.9 keV (n,n') Level
Cross Section

76-Os-189
-10.65 To 39.88 %



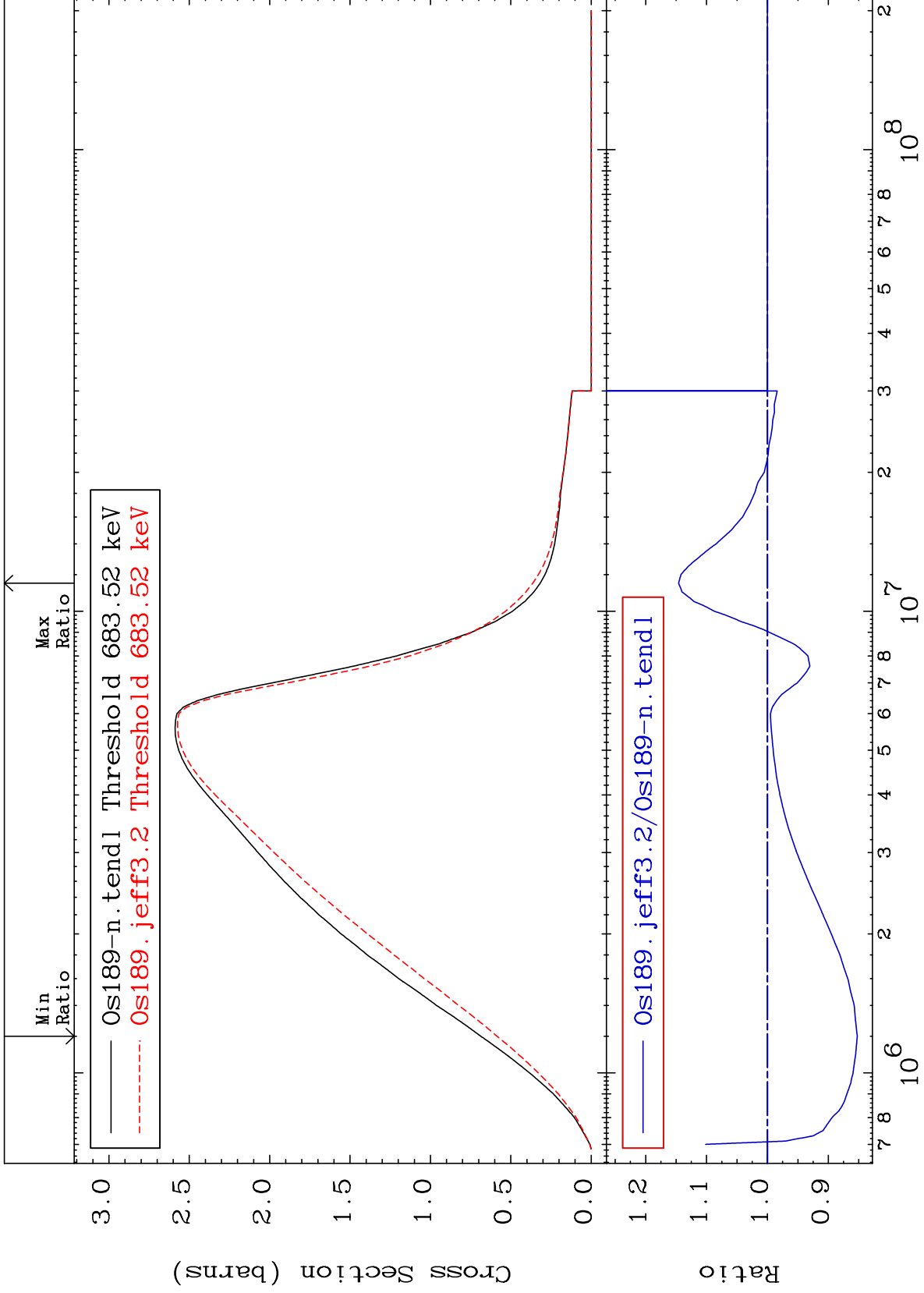
49

76-Os-189

MAT 7640

(n, n') Continuum
Cross Section

76-0s-189
-14.75 To 14.58 %



50

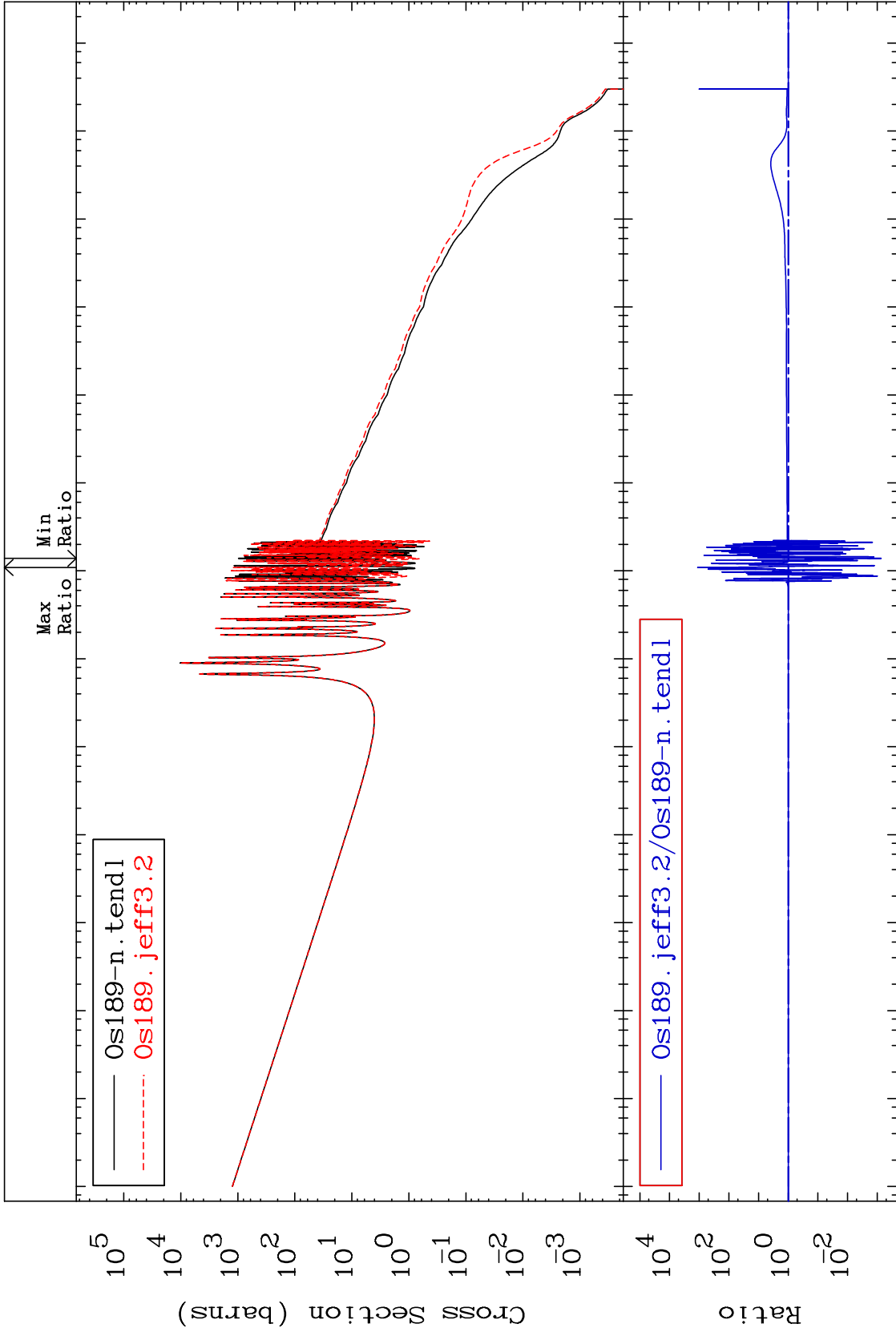
Incident Energy (eV)

76-0s-189

MAT 7640

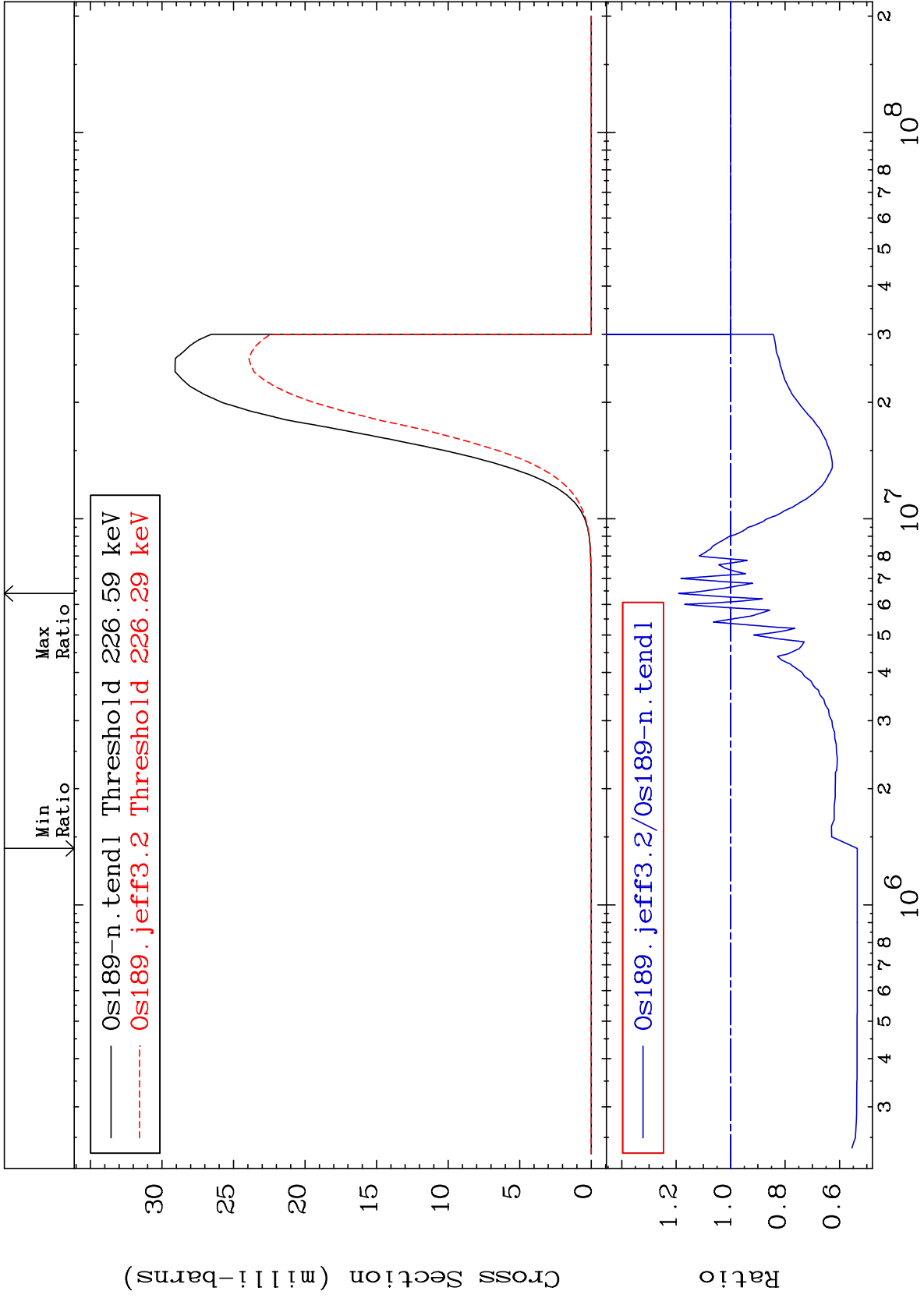
(n, γ)
Cross Section

76-0s-189
-99.93 To 9999. %



MAT 7640

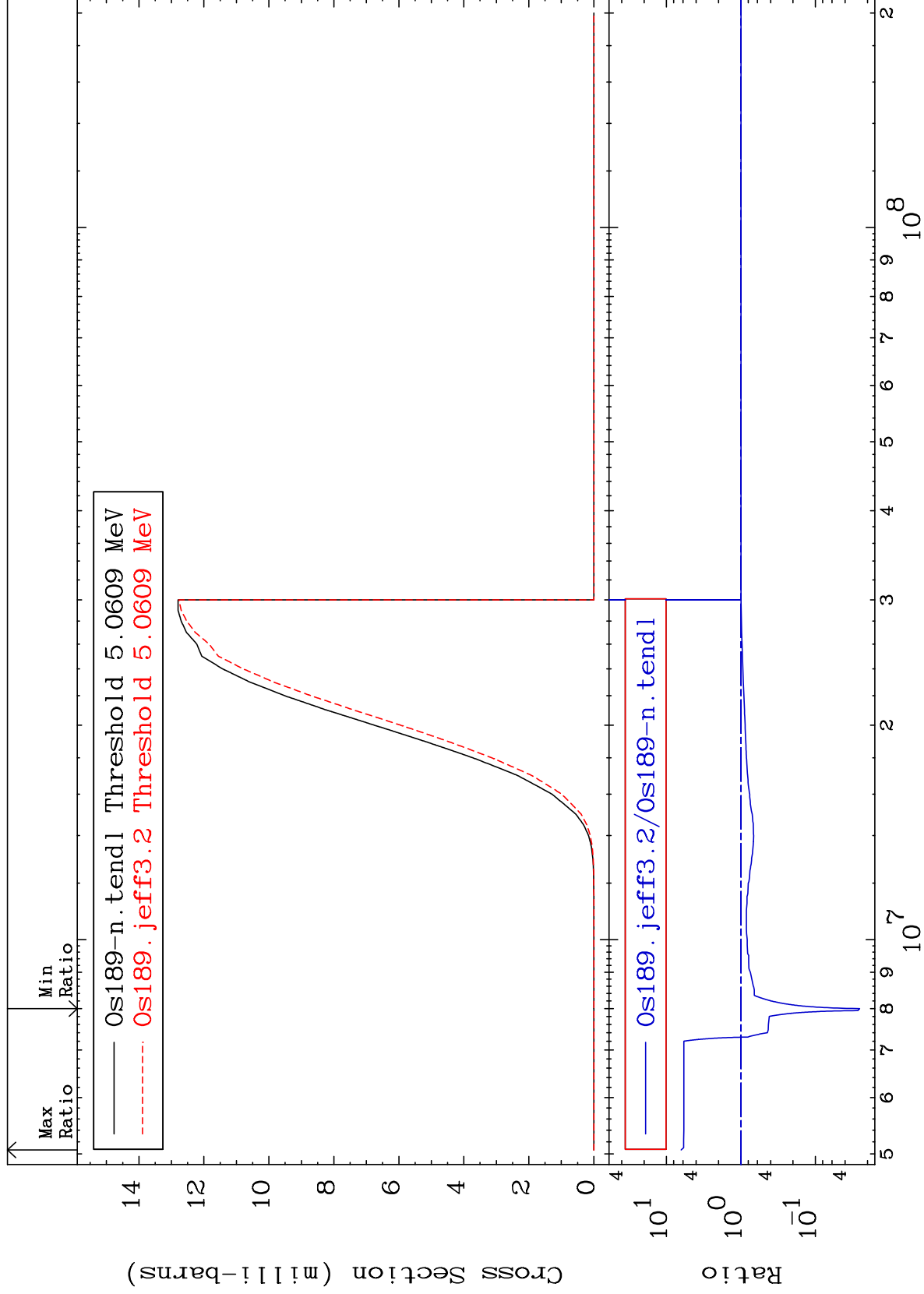
(n,p)
Cross Section
76-0s-189
-46.48 To 19.10 %



MAT 7640

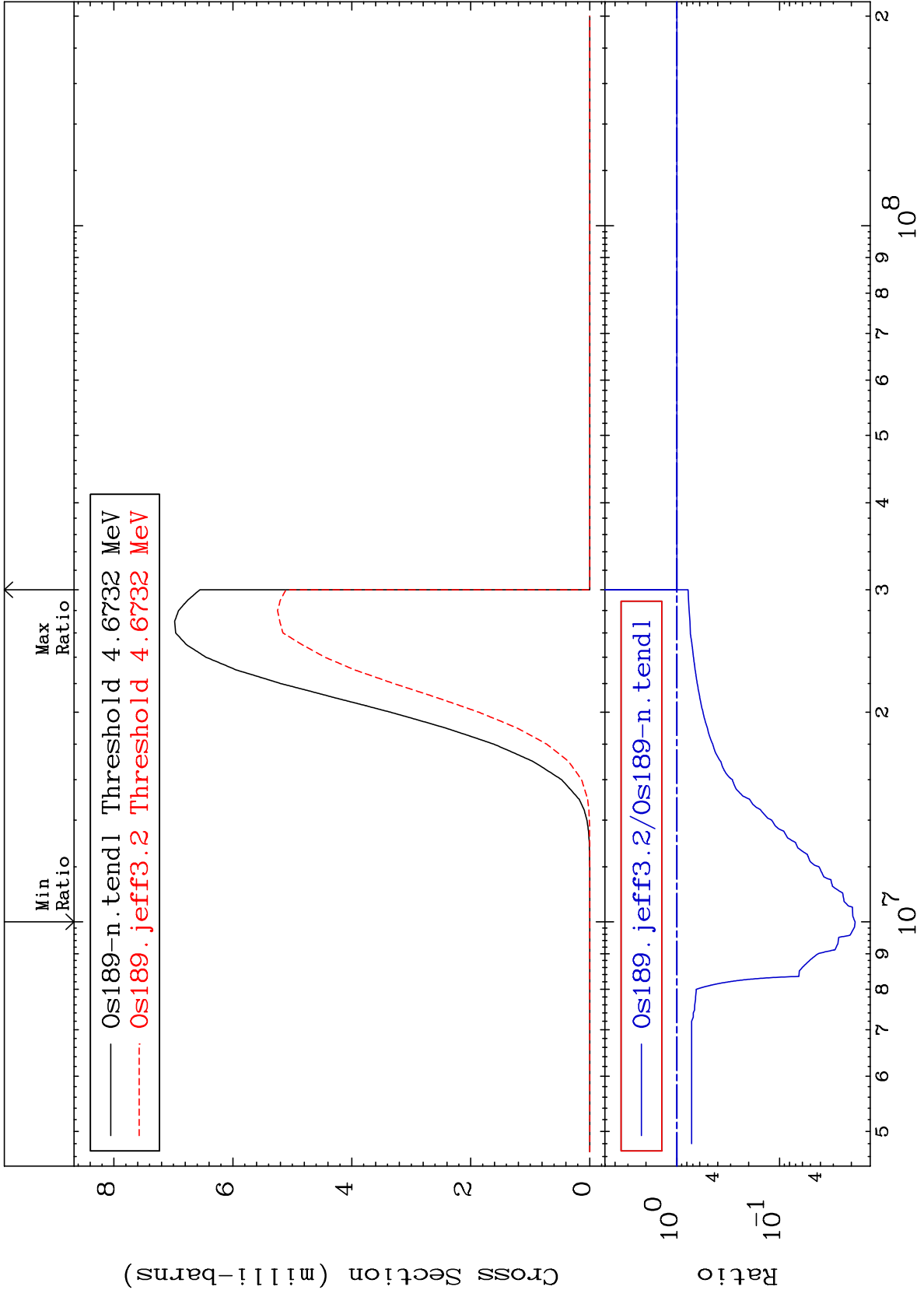
(n, d)
Cross Section

76-0s-189
-97.45 To 534.6 %



MAT 7640

(n, t)
Cross Section
76-0s-189
-98.16 To 0.000 %



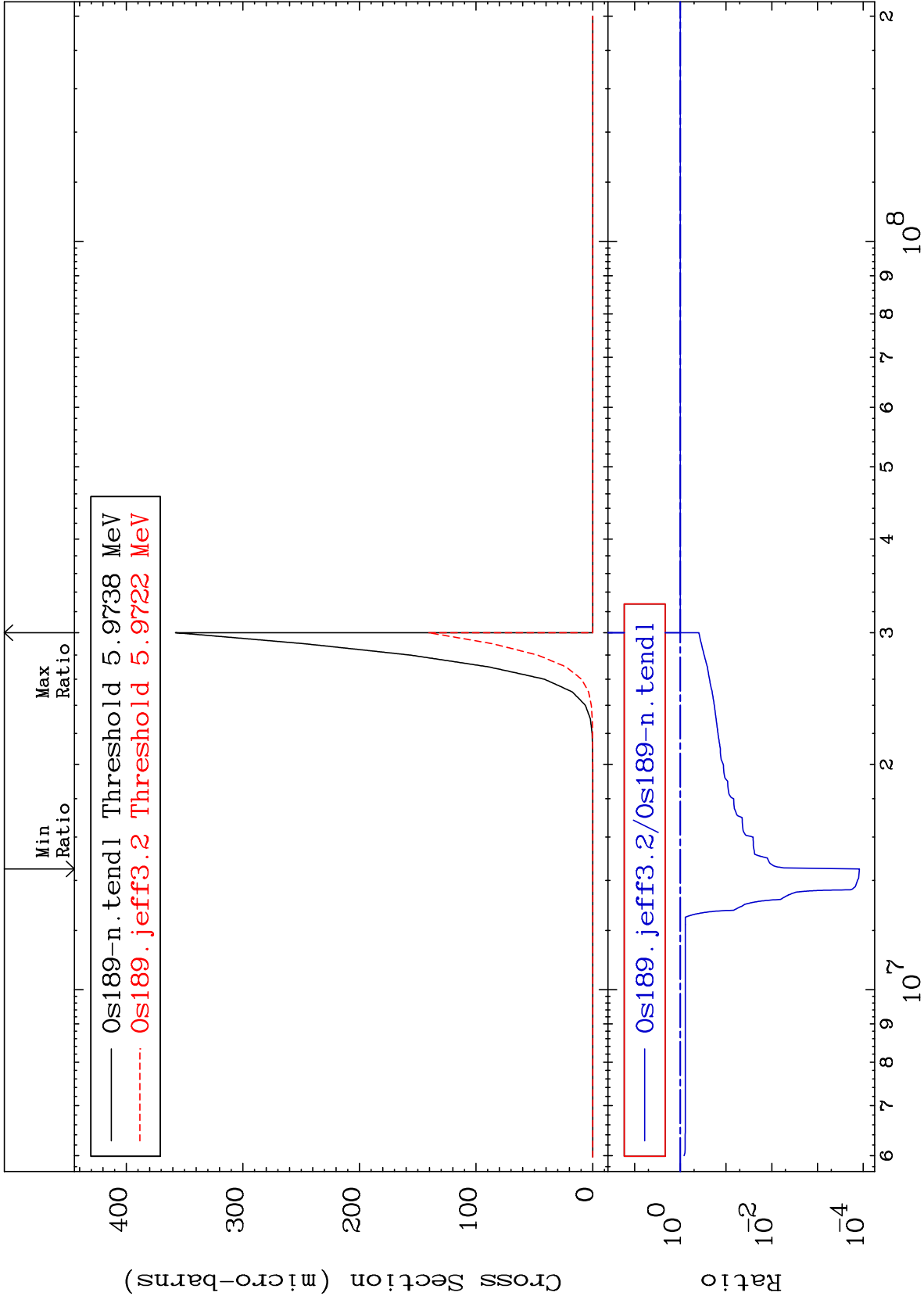
MAT 7640

(n, He-3)

76-0s-189

Cross Section

-99.99 To 0.000 %



55

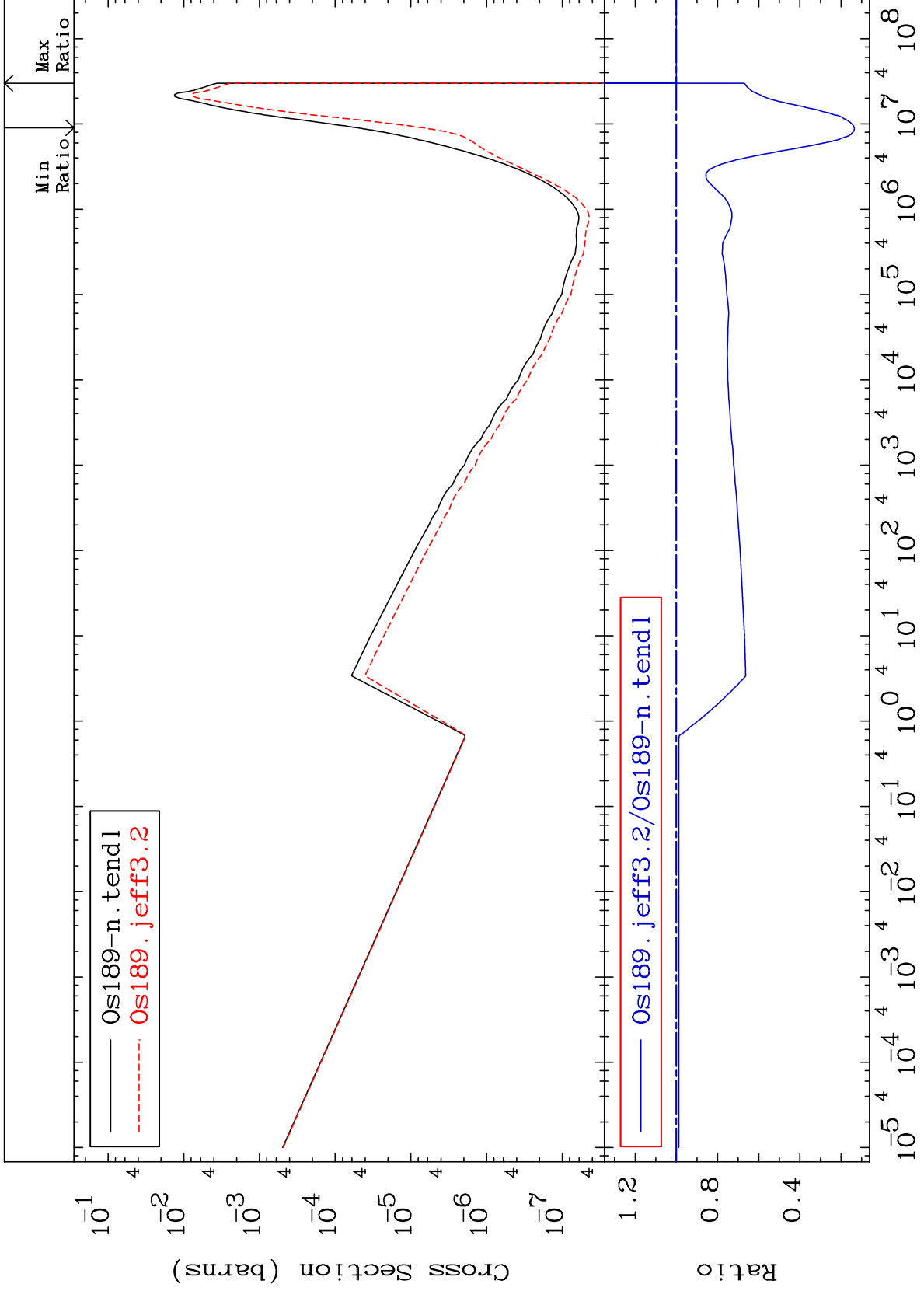
Incident Energy (eV)

76-0s-189

MAT 7640

(n, α)
Cross Section

76-0s-189
-86.46 To 0.000 %



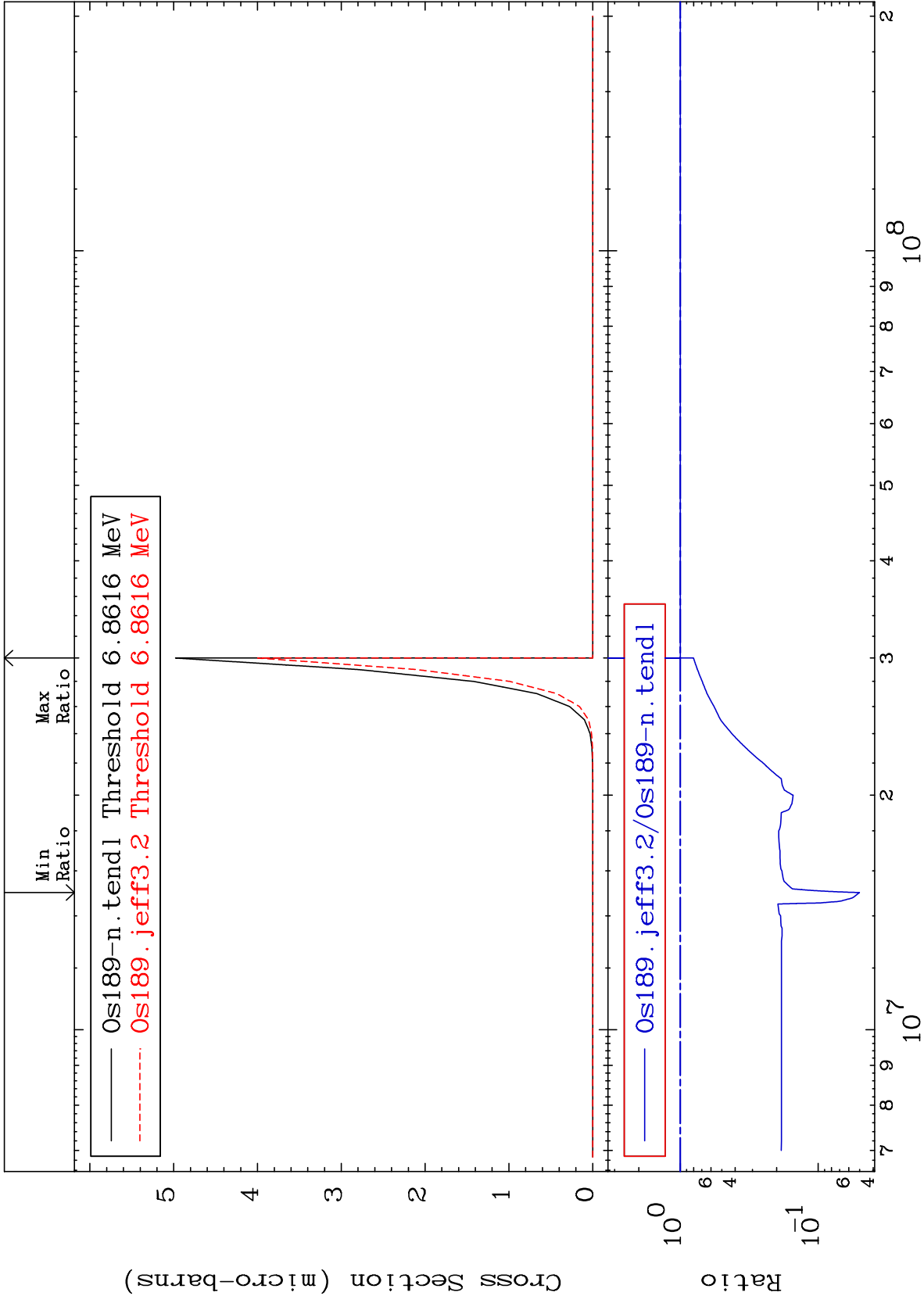
MAT 7640

(n,2p)

76-0s-189

Cross Section

-94.97 To 0.000 %



57

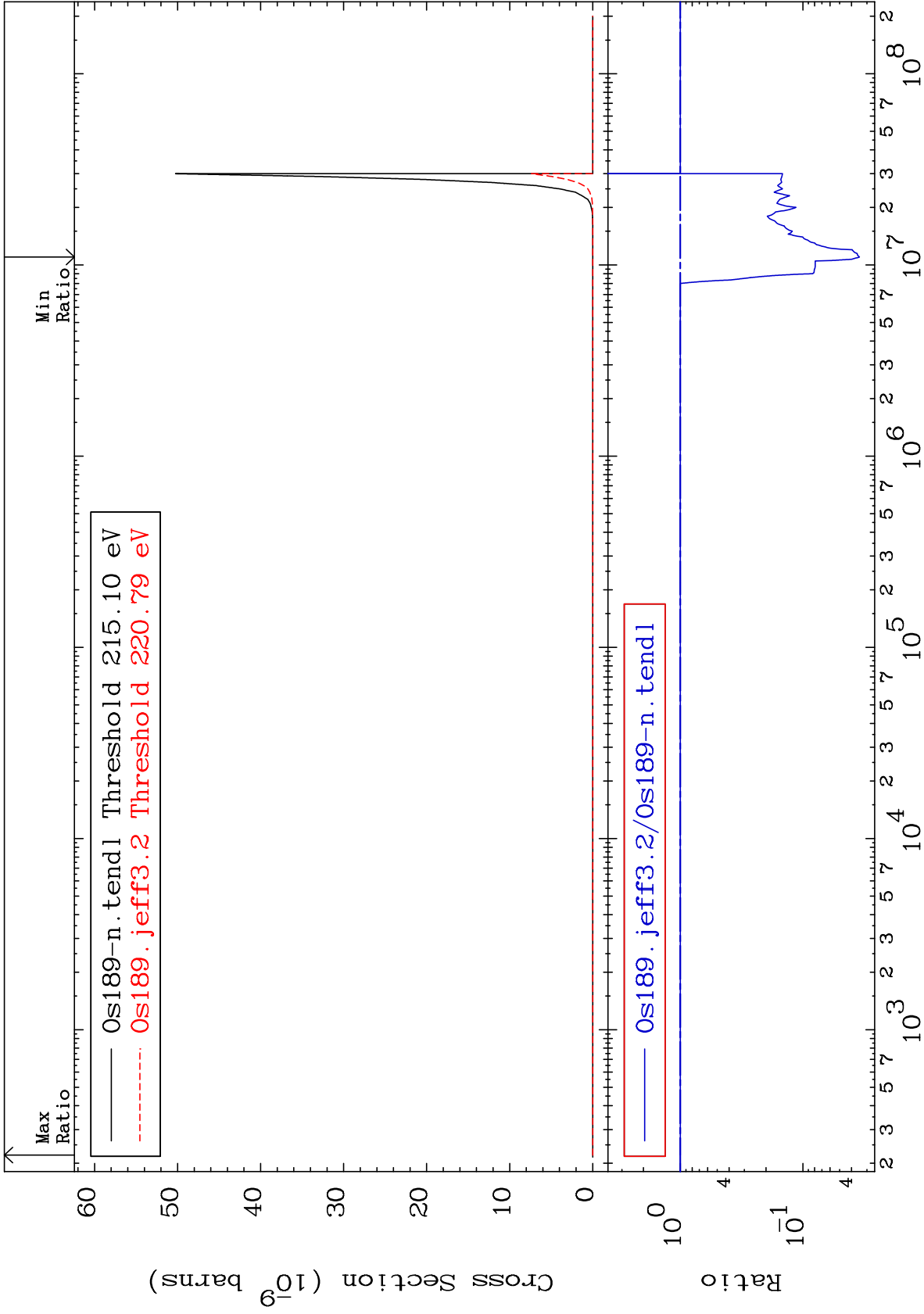
Incident Energy (eV)

76-0s-189

MAT 7640

(n, p) α
Cross Section

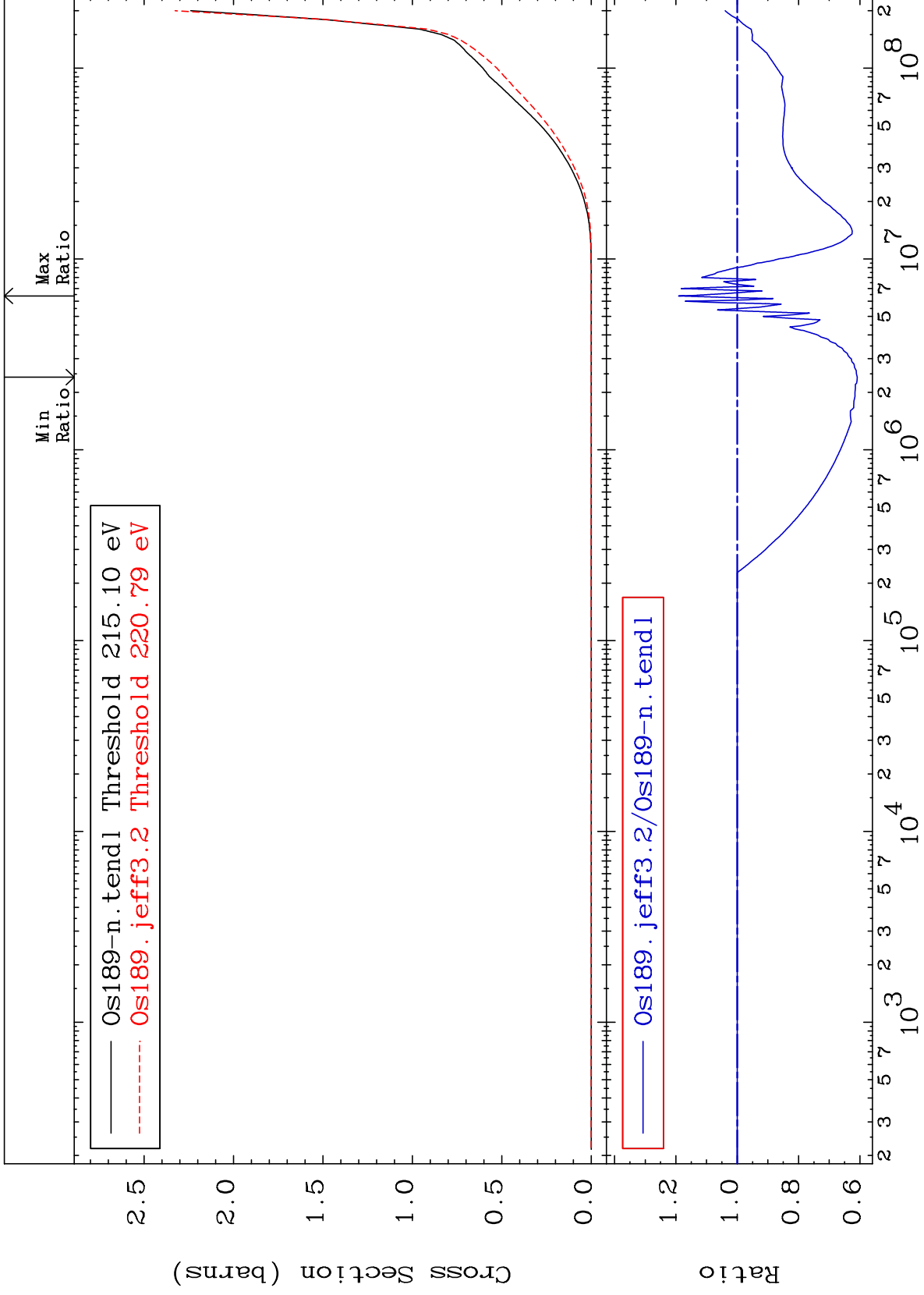
76-0s-189
-96.55 To 0.000 %



MAT 7640

Hydrogen Production
Cross Section

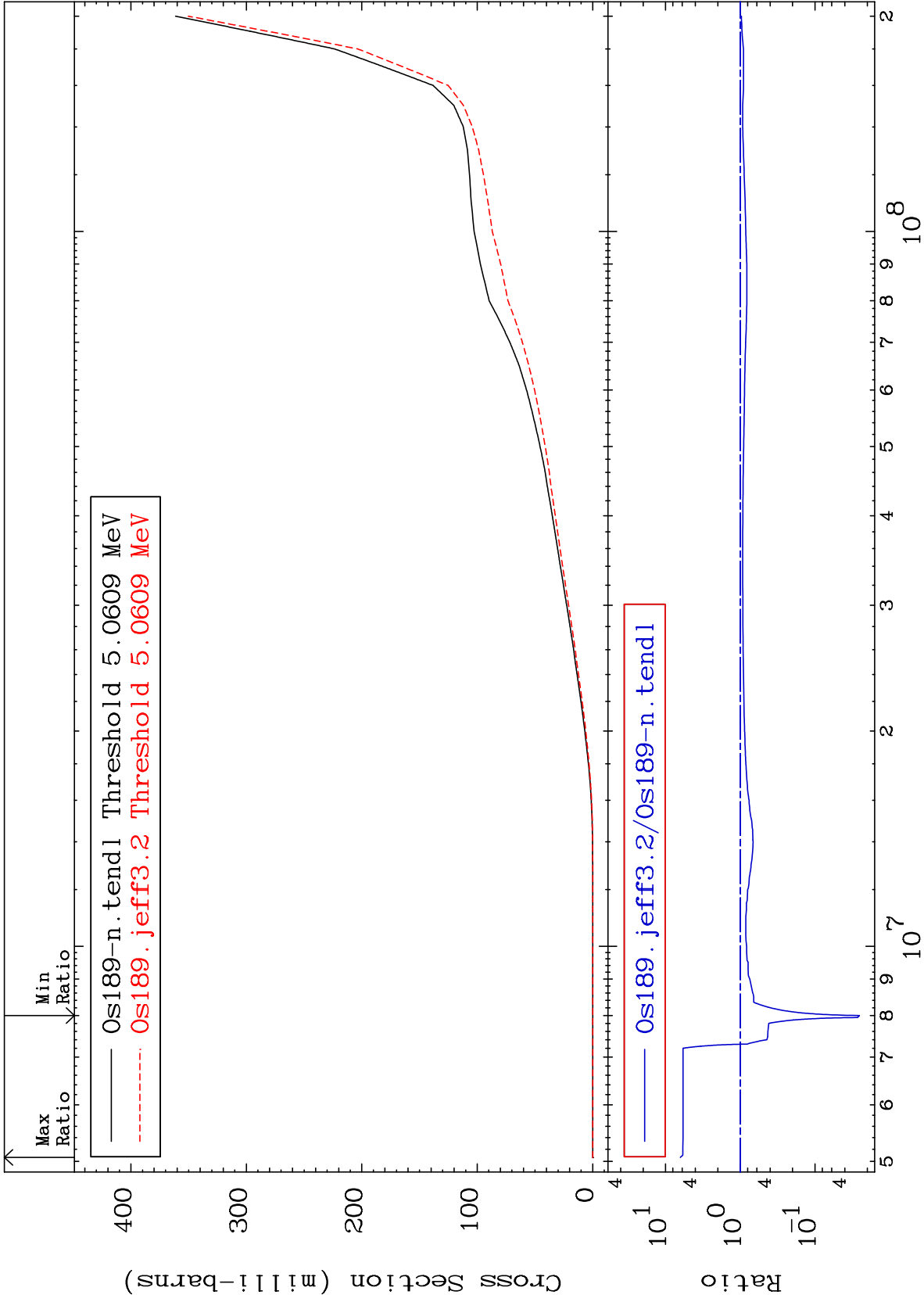
76-0s-189
-39.13 To 19.10 %



MAT 7640

Deuterium Production
Cross Section

76-0s-189
-97.45 To 534.6 %



60

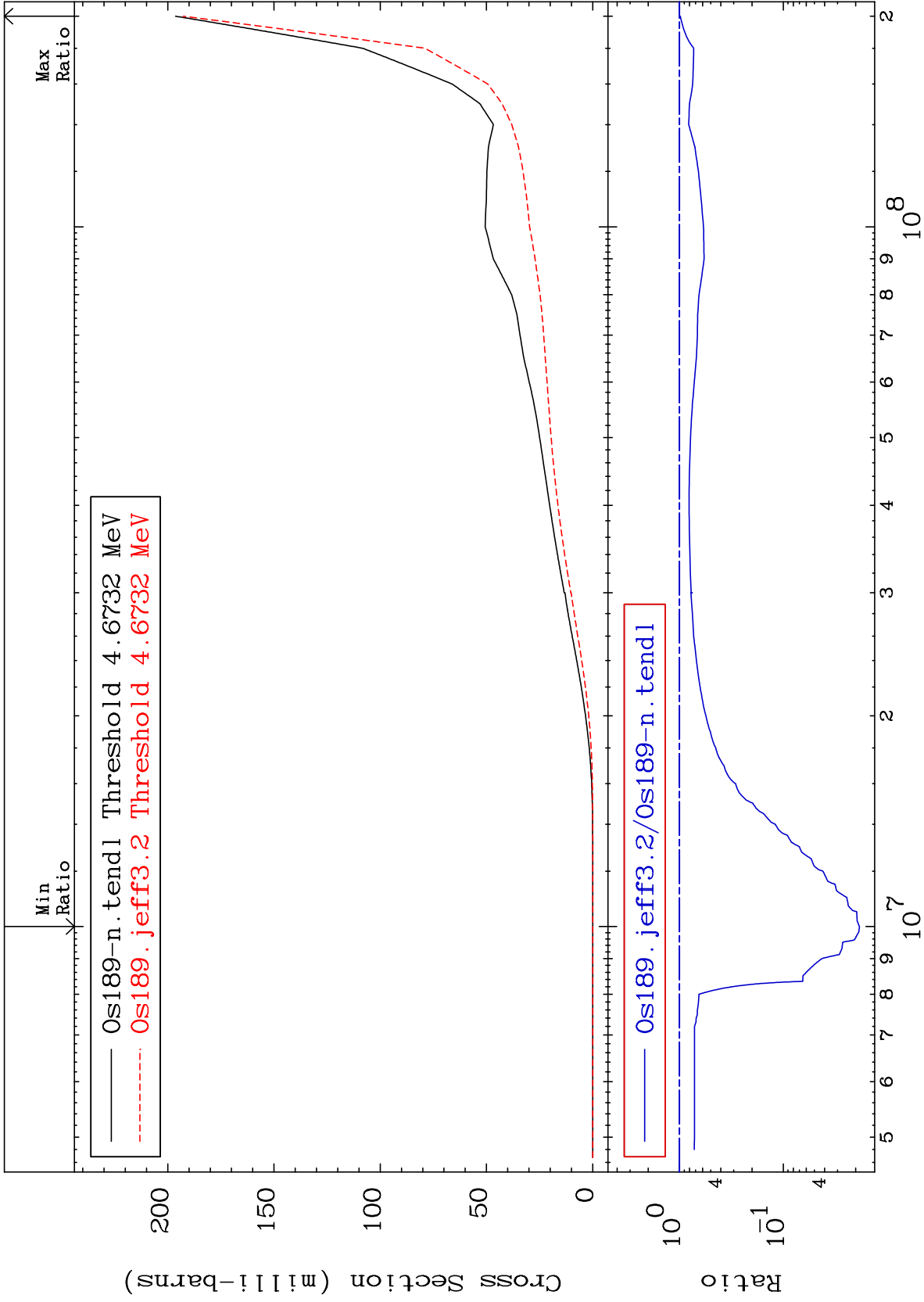
Incident Energy (eV)

76-0s-189

MAT 7640

Tritium Production
Cross Section

76-Os-189
-98.16 To -1.852%



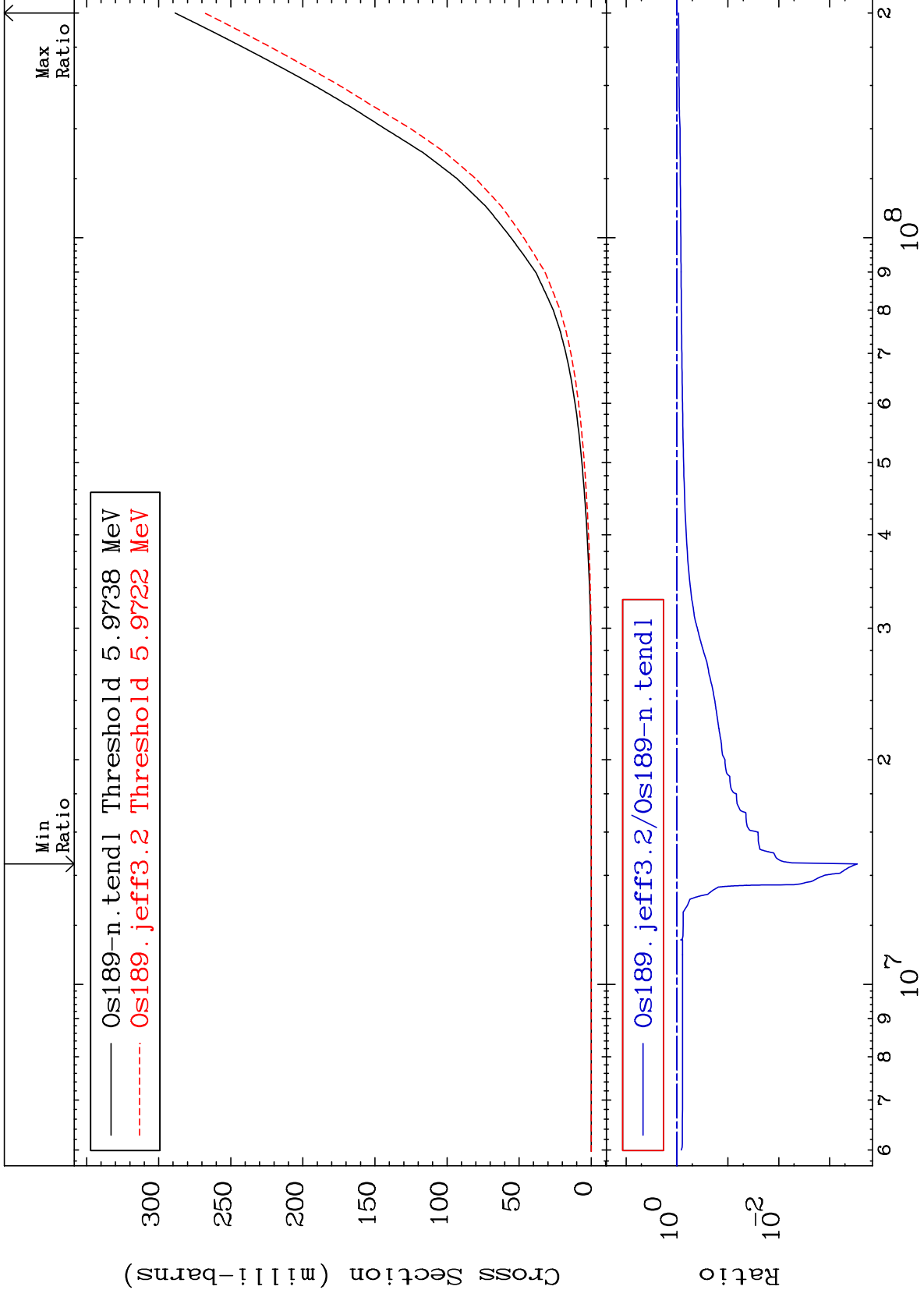
61

76-Os-189

MAT 7640

He-3 Production
Cross Section

76-Os-189
-99.97 To -7.142%



62

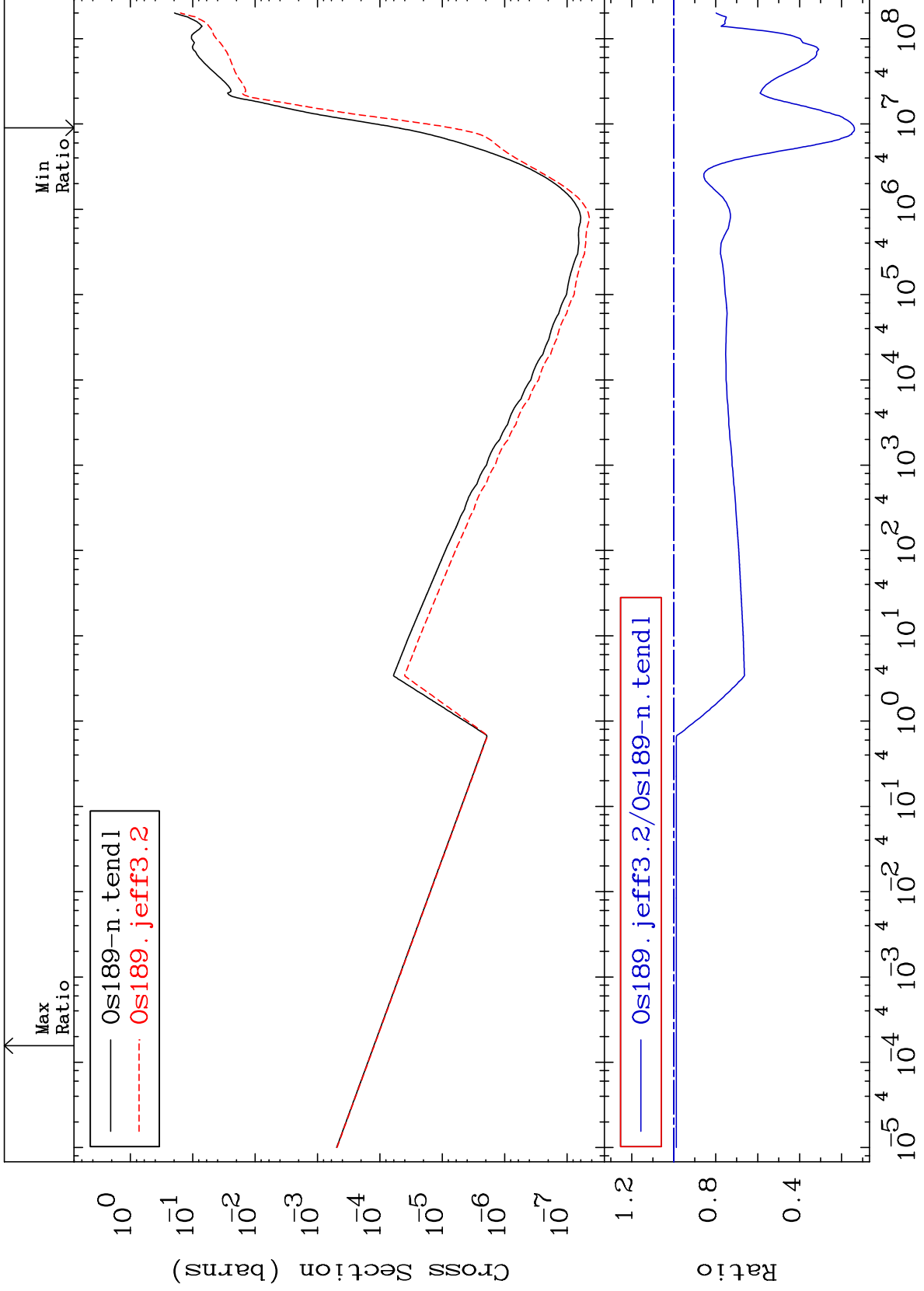
Incident Energy (eV)

76-Os-189

MAT 7640

He-4 Production
Cross Section

76-0s-189
-86.09 To -1.228%



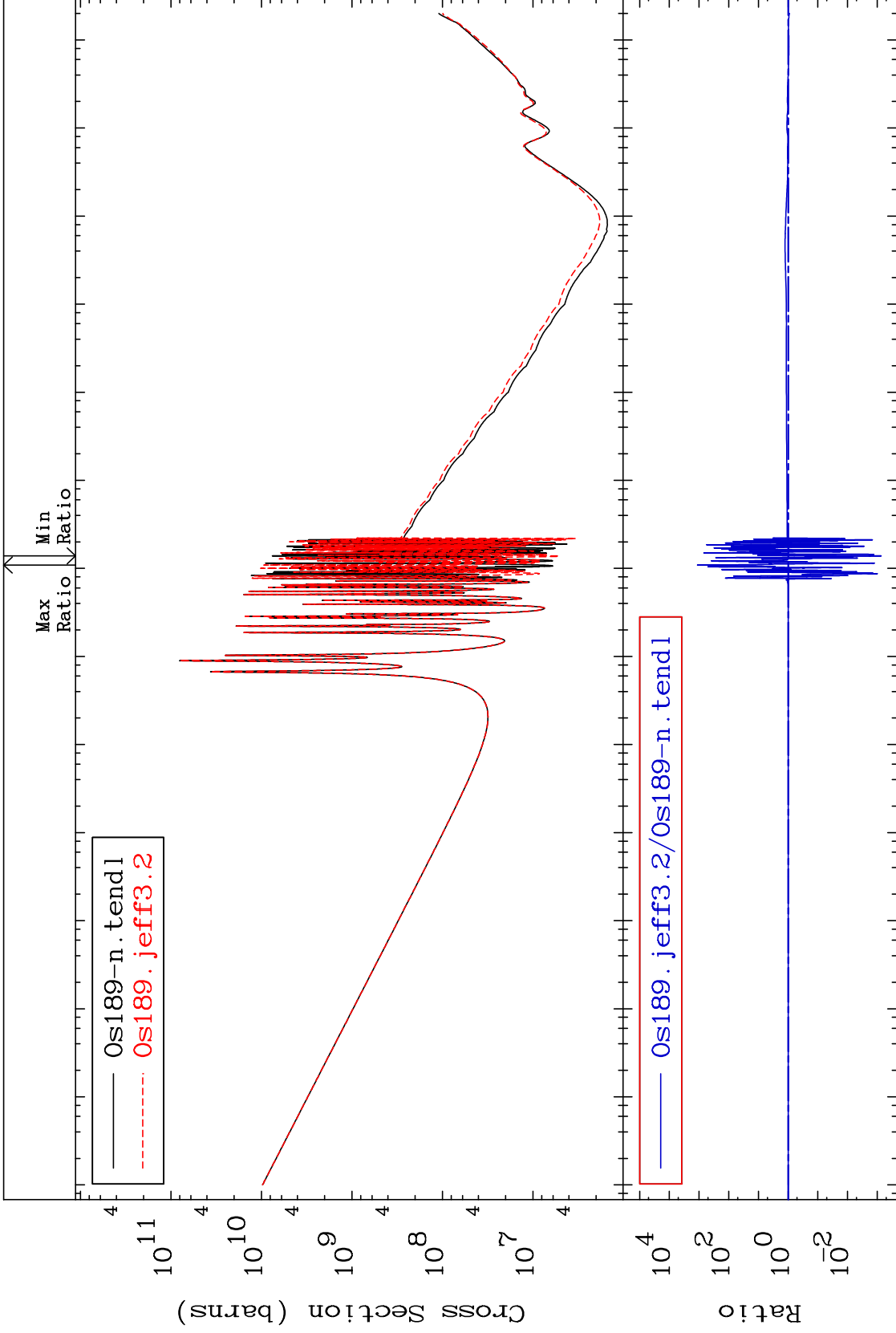
MAT 7640

Kerma total (eV-barns)

76-0s-189

-99.93 To 9999. %

Cross Section



64

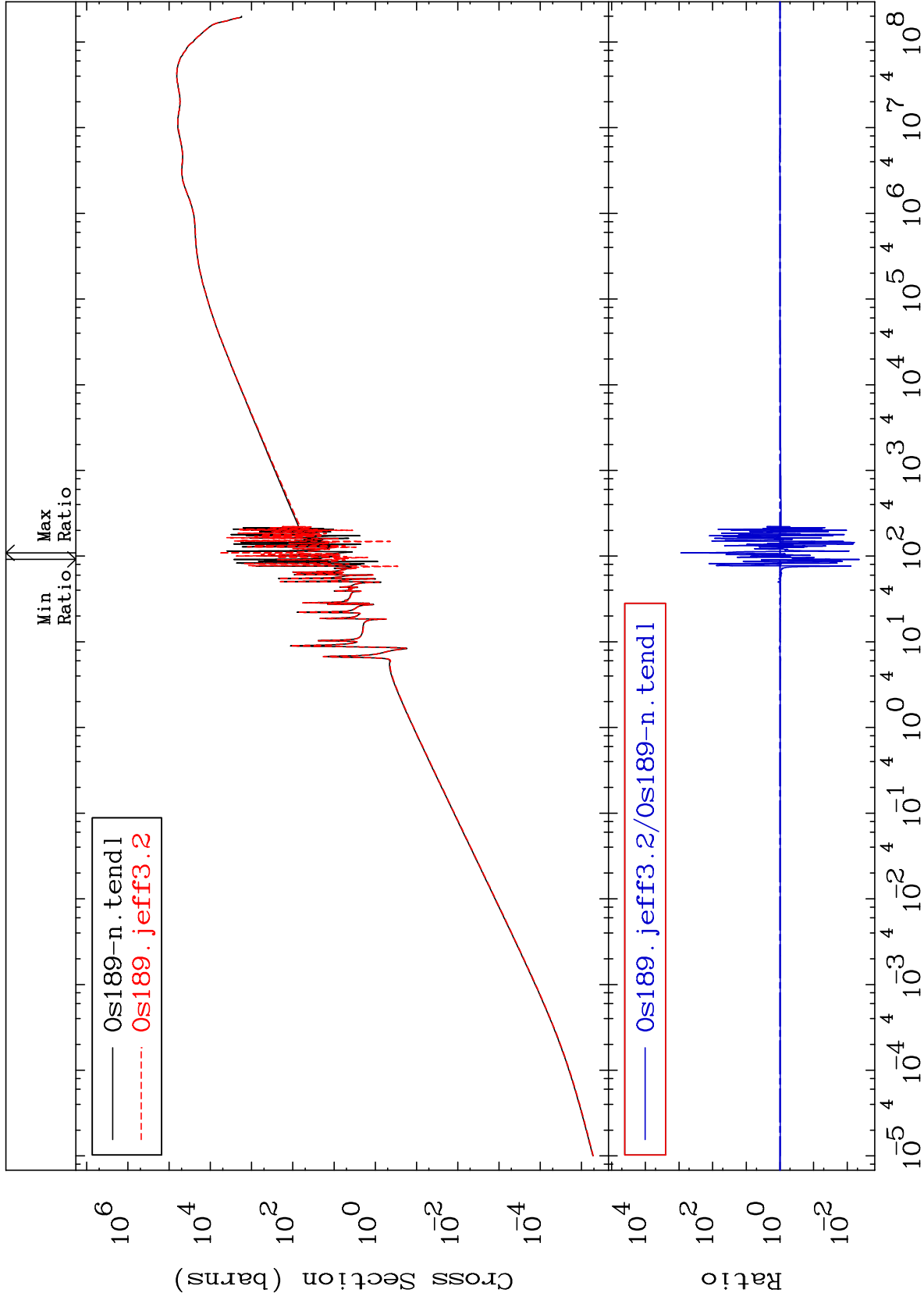
Incident Energy (eV)

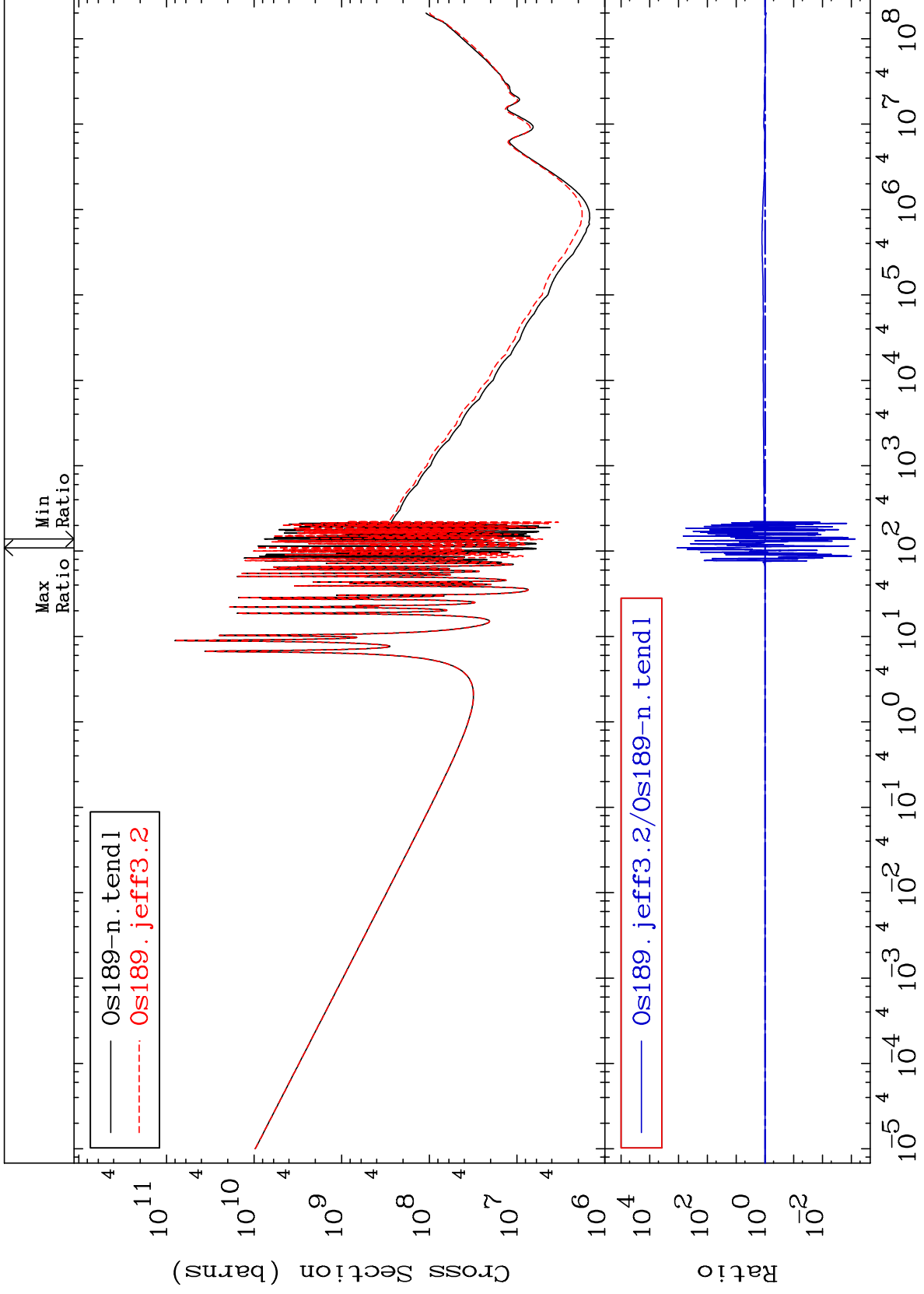
76-0s-189

MAT 7640

Kerma elastic
Cross Section

76-0s-189
-99.57 To 9999. %

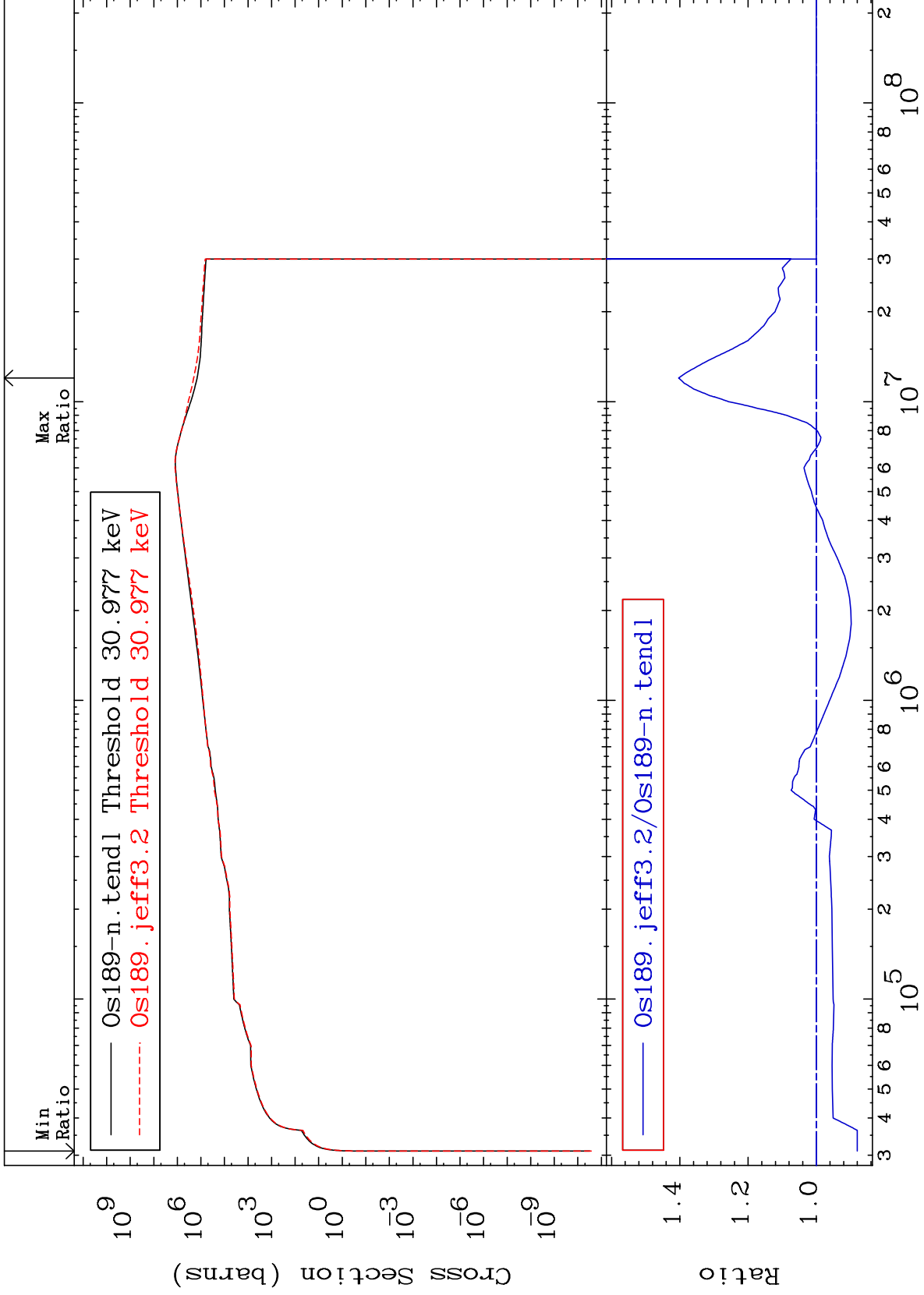




MAT 7640

Kerma inelastic (mt51-91)
Cross Section

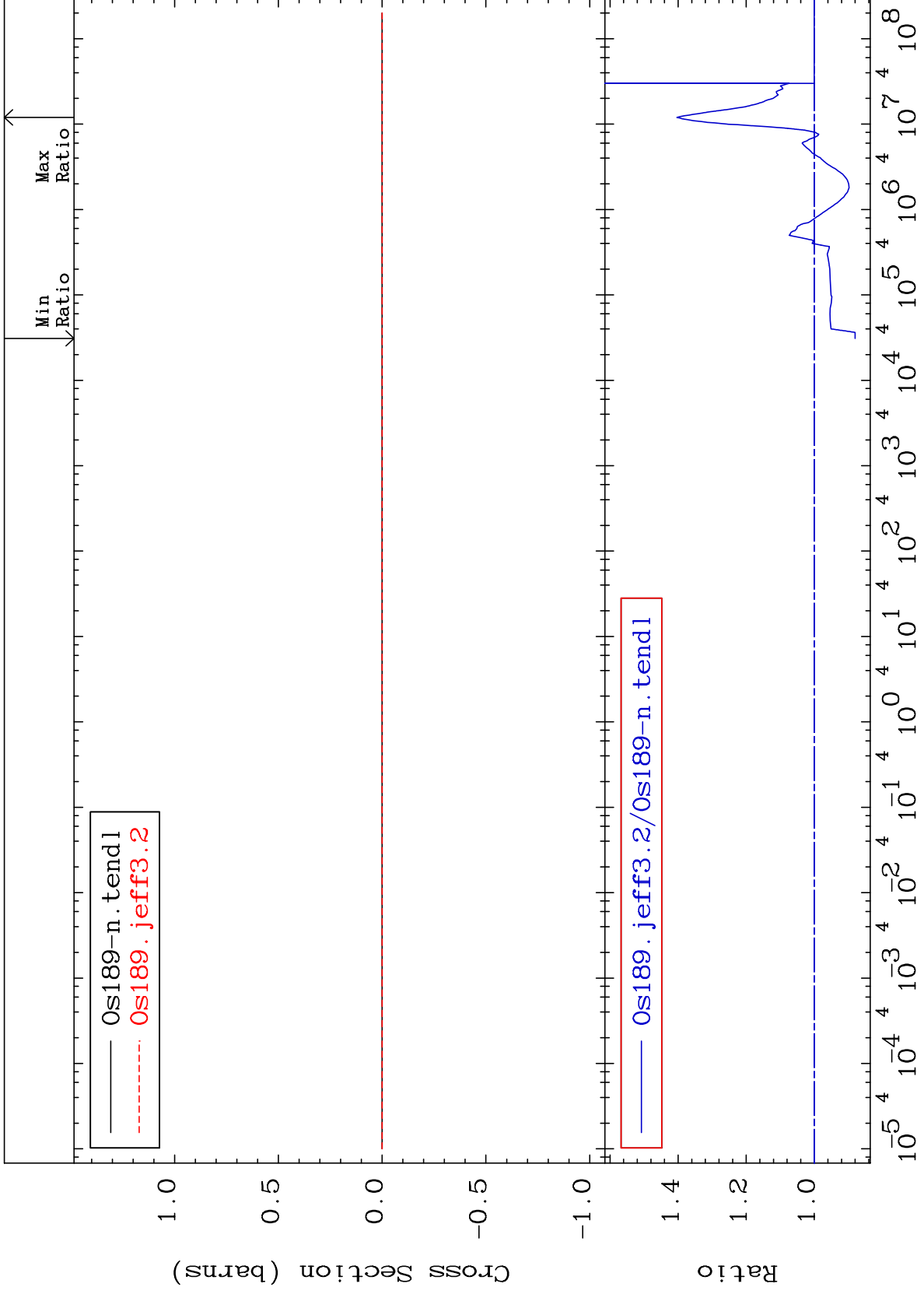
76-0s-189
-11.97 To 40.34 %



MAT 7640

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

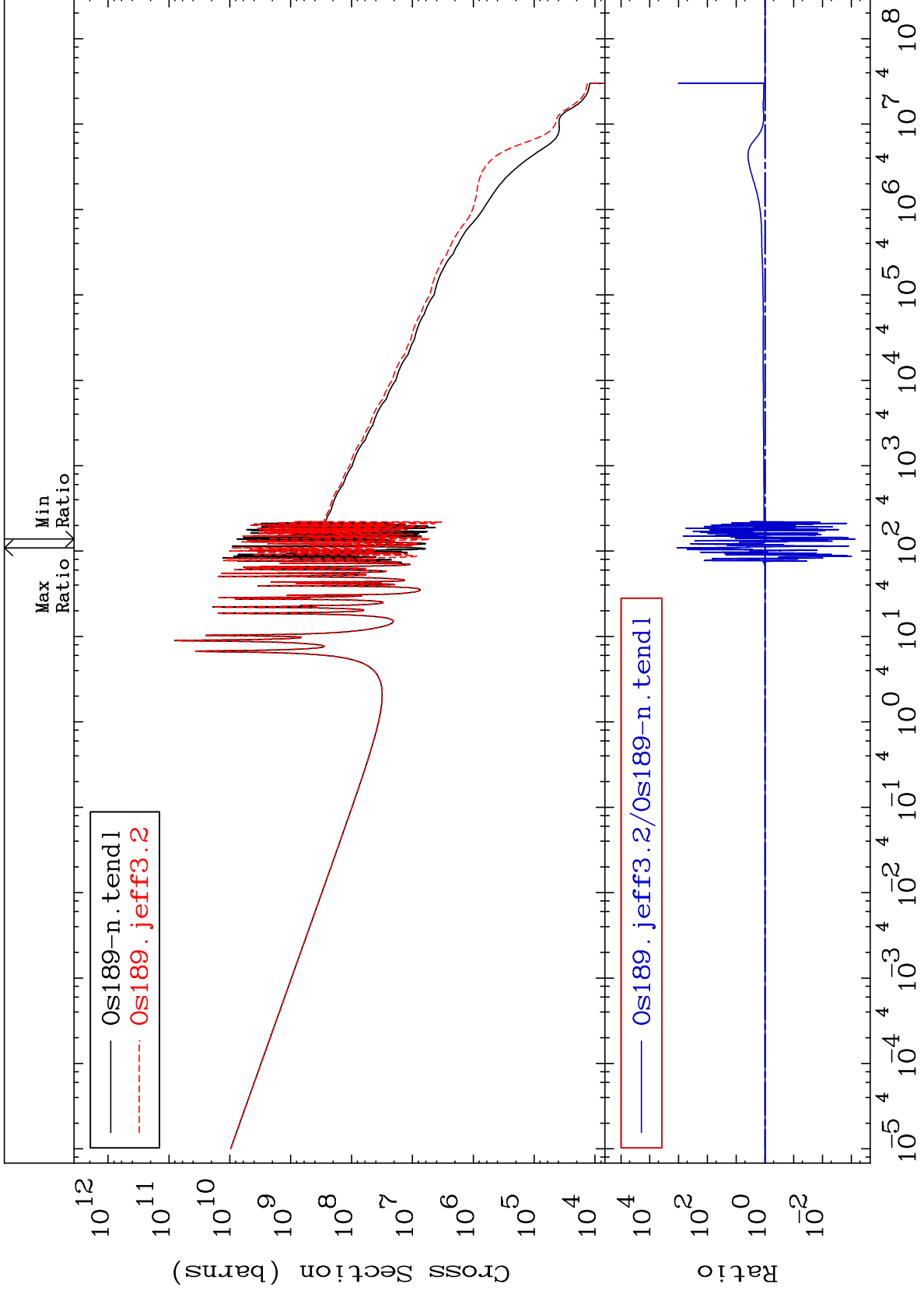
76-0s-189
-11.97 To 40.34 %



MAT 7640

Kerma capture (mt102)
Cross Section

76-0s-189
-99.93 To 9999. %



69

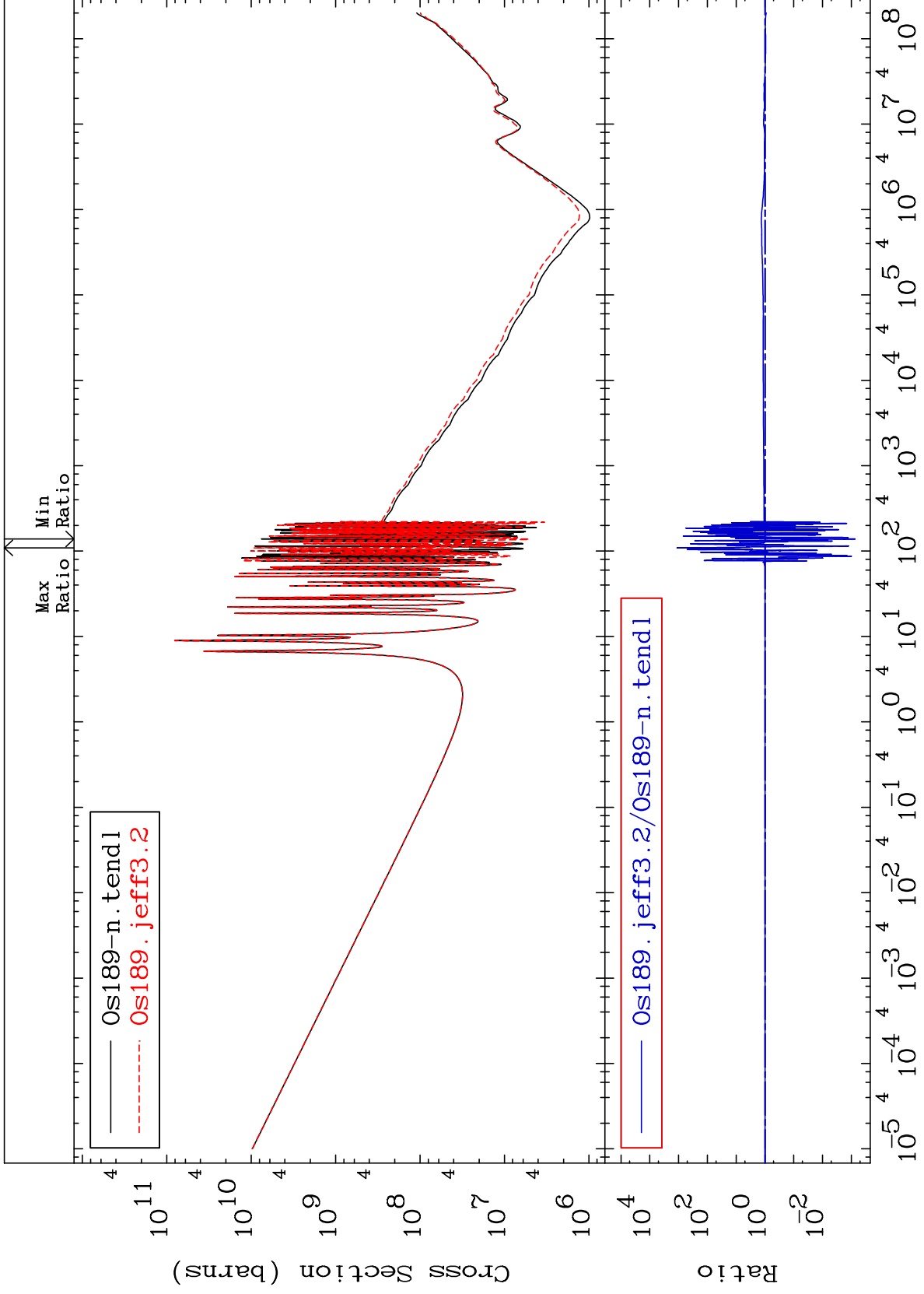
Incident Energy (eV)

76-0s-189

MAT 7640

Total kinematic kerma (high limit)
Cross Section

76-0s-189
-99.93 To 9999. %



71

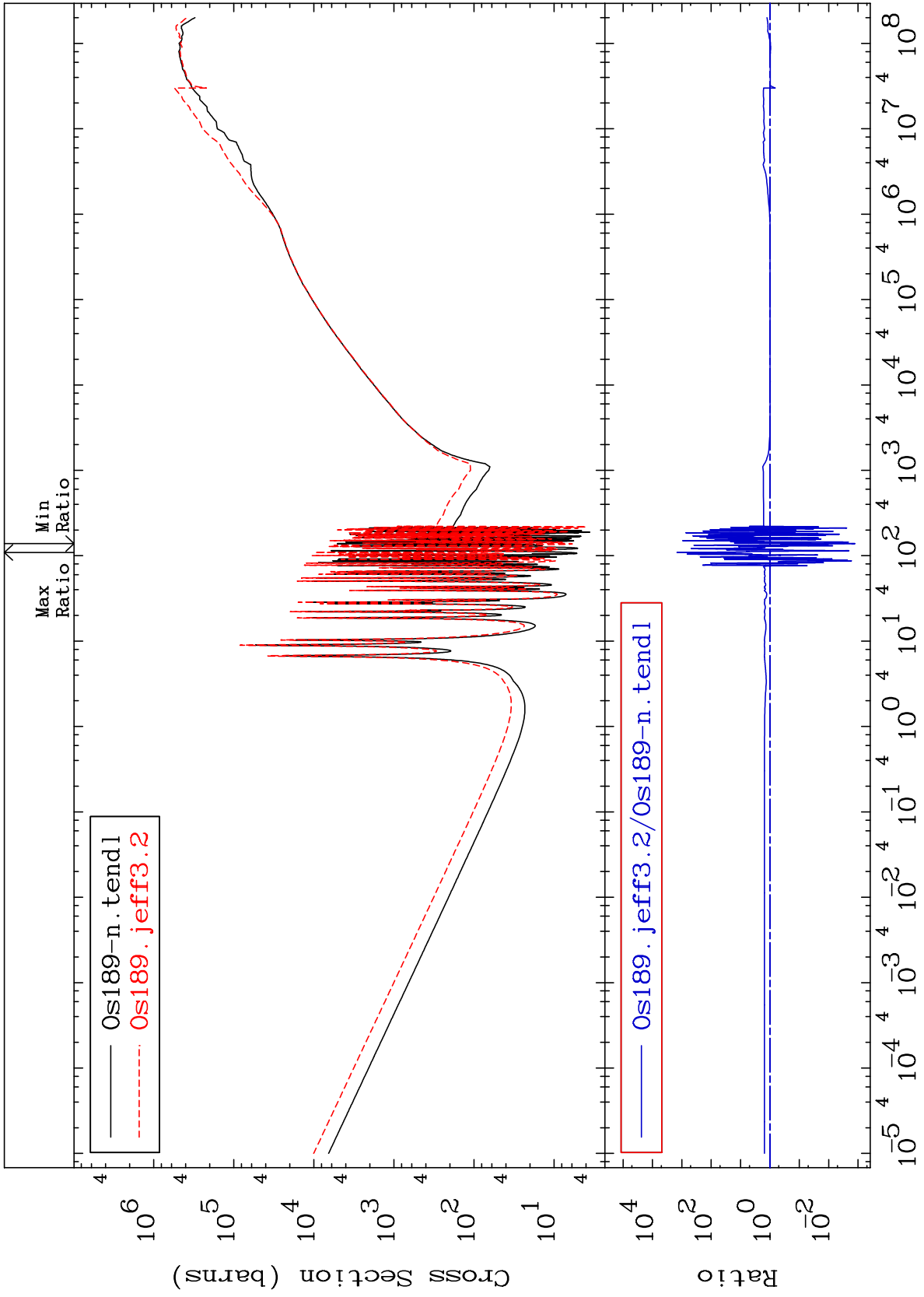
Incident Energy (eV)

76-0s-189

MAT 7640

Dpa total (eV-barns)
Cross Section

76-0s-189
-99.87 To 9999. %



72

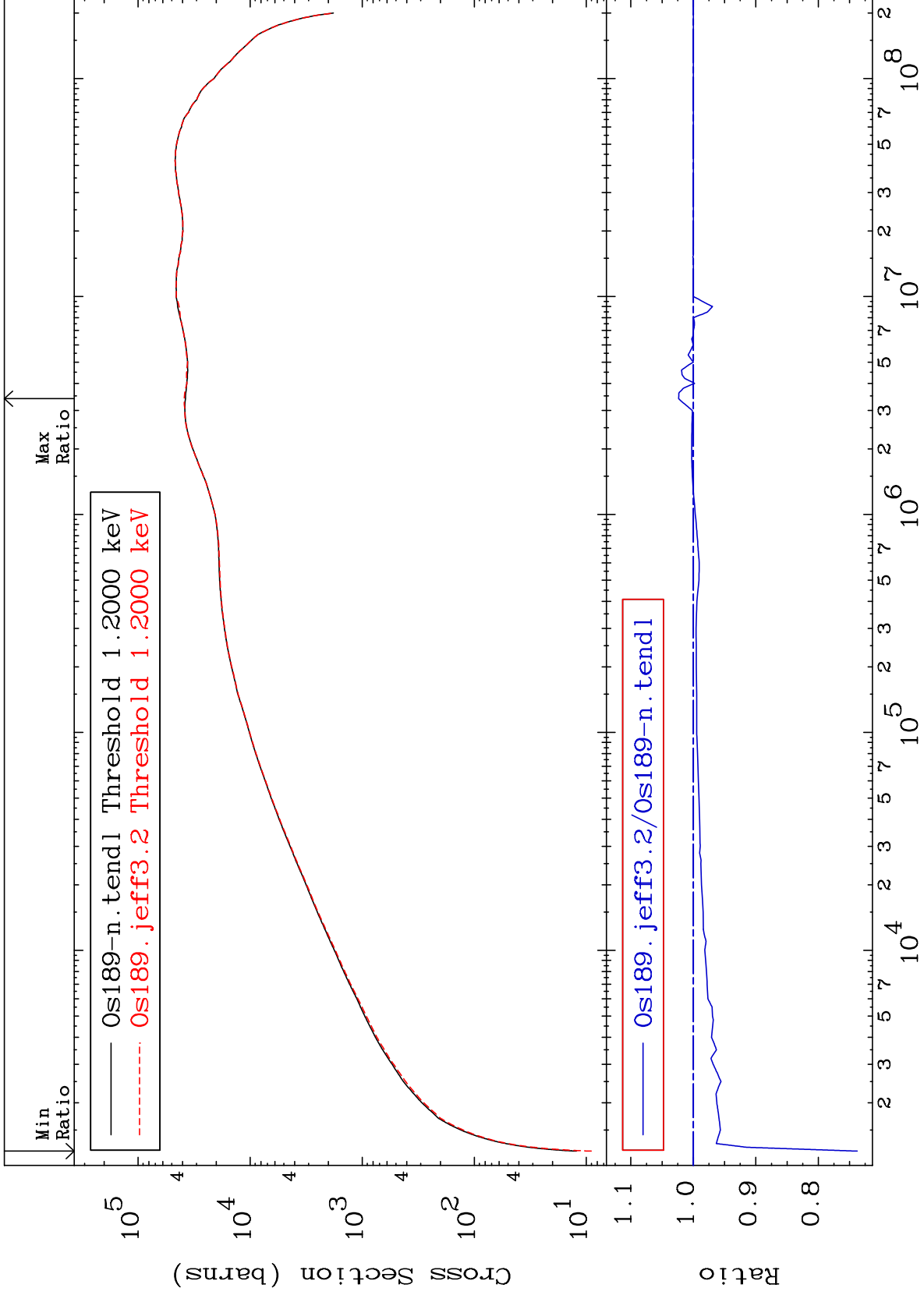
Incident Energy (eV)

76-0s-189

MAT 7640

Dpa elastic (mt2)
Cross Section

76-0s-189
-26.23 To 2.353 %



73

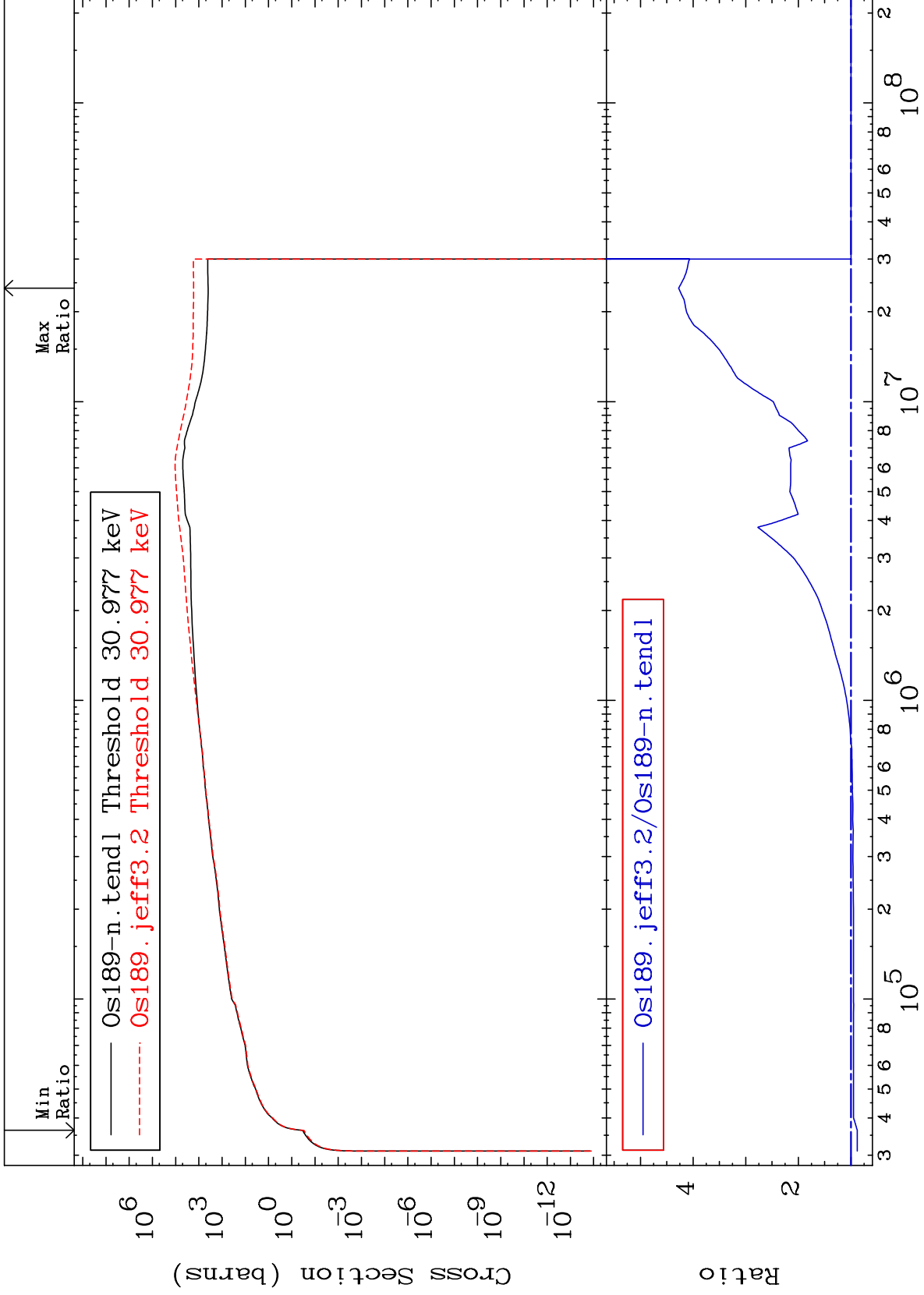
Incident Energy (eV)

76-0s-189

MAT 7640

Dpa inelastic (mt51-91)
Cross Section

76-0s-189
-11.97 To 327.4 %



74

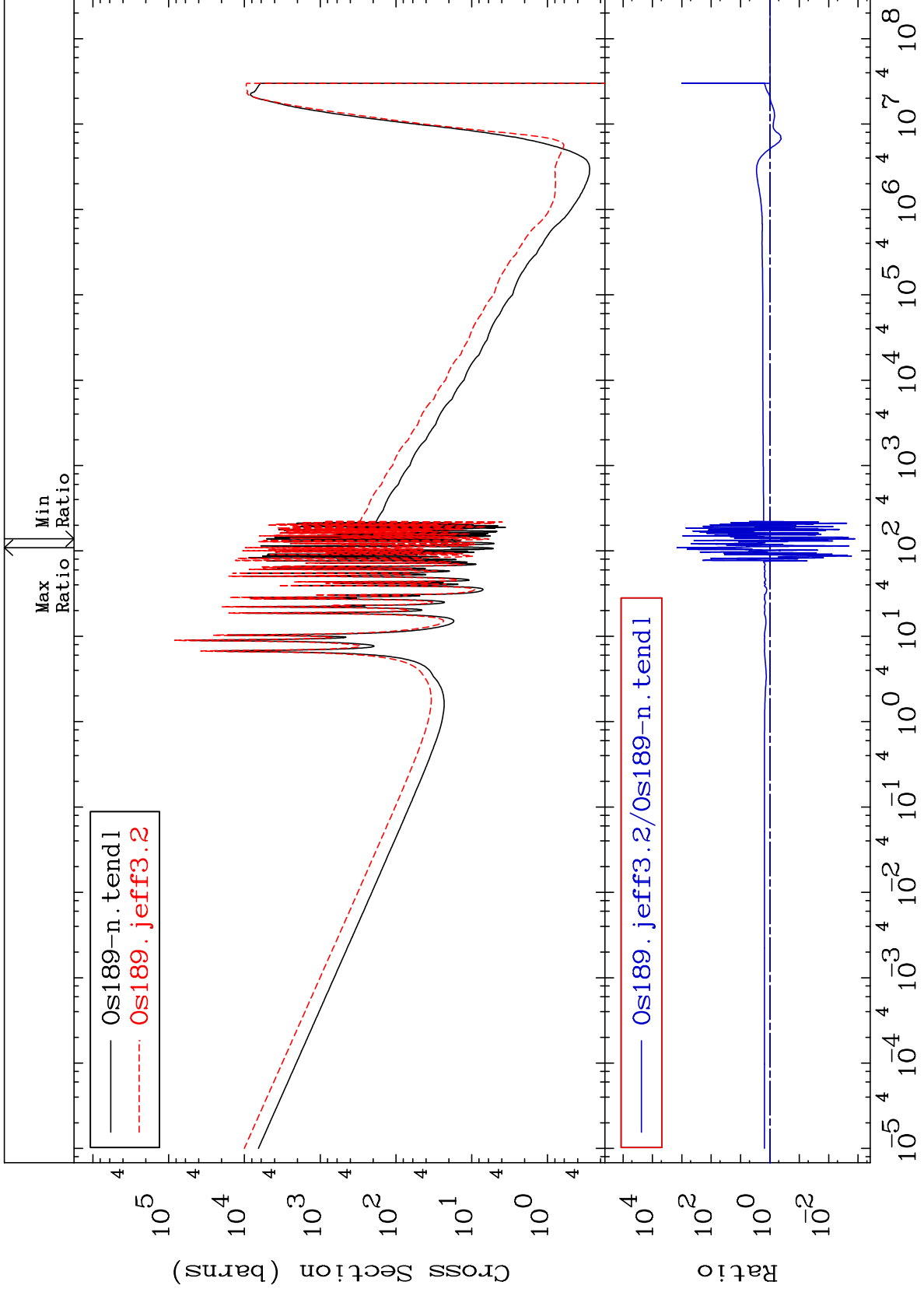
Incident Energy (eV)

76-0s-189

MAT 7640

Dpa disappearance (mt102 -120)
Cross Section

76-0s-189
-99.87 To 9999. %



75

Incident Energy (eV)

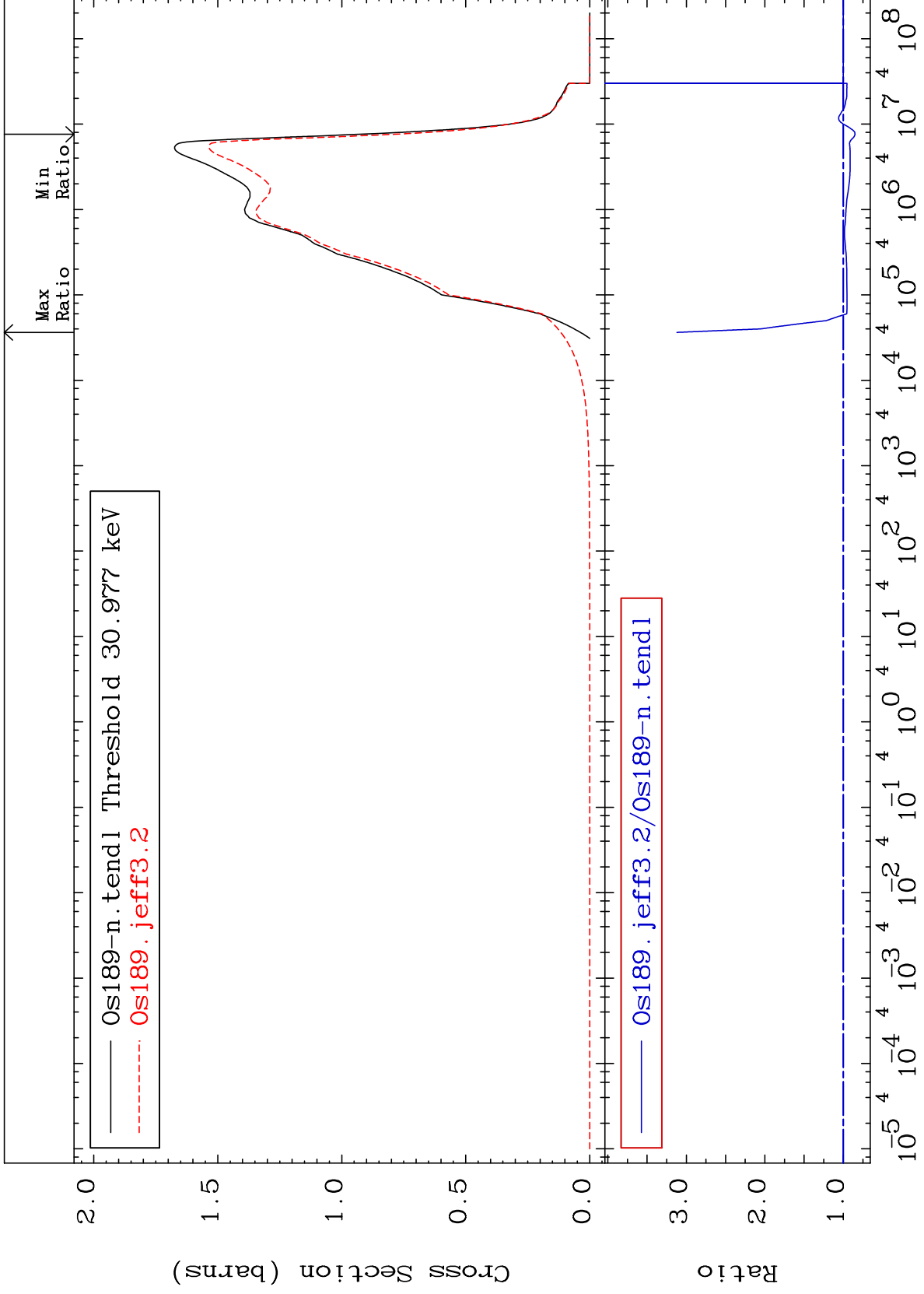
76-0s-189

MAT 7640

Inelastic:76-0s-189g

76-0s-189

Radionuclide Production Cross Section -14.95 To 212.0 %



76

Incident Energy (eV)

76-0s-189

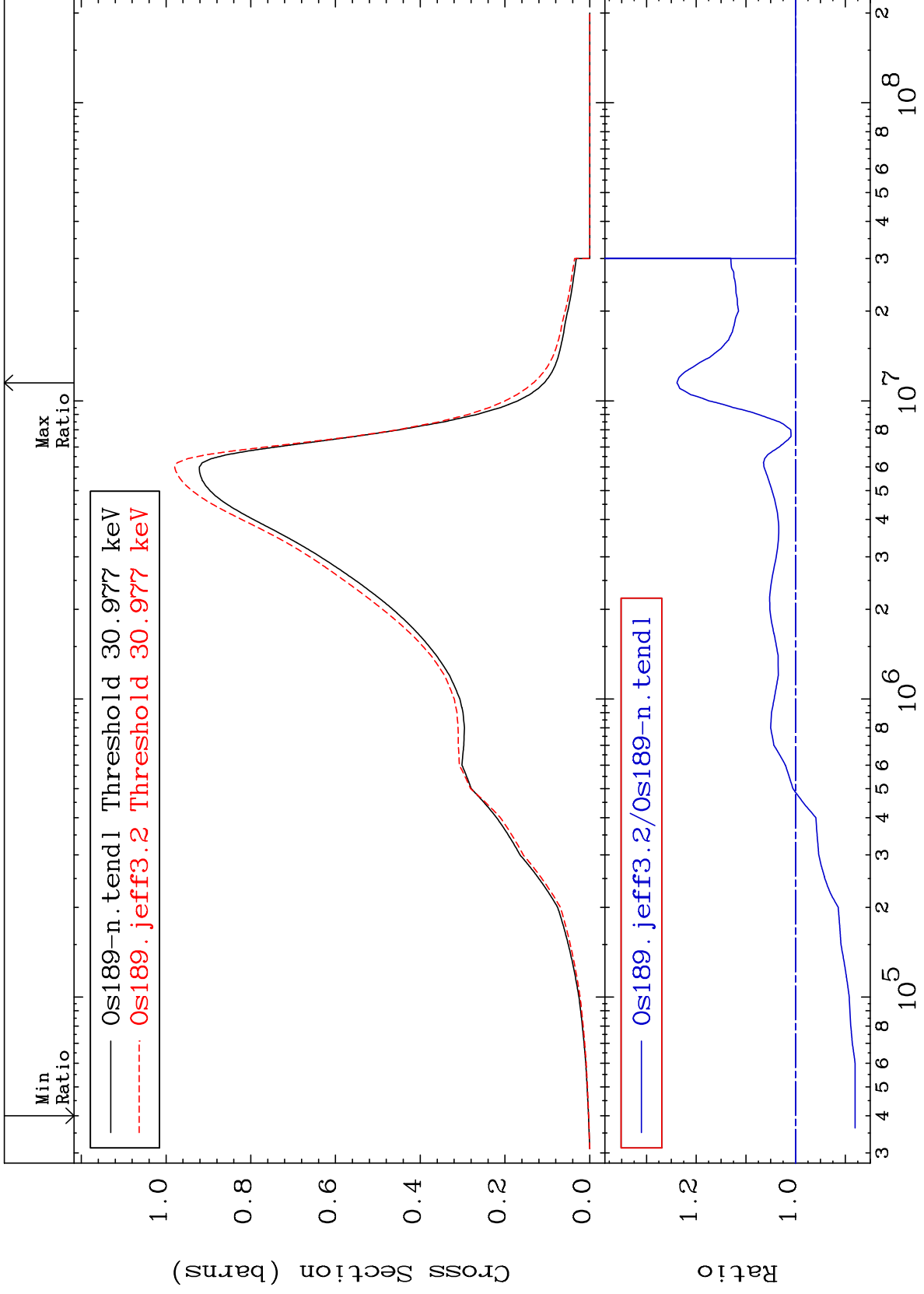
MAT 7640

Inelastic: 76-Os-189m1

76-Os-189

Radionuclide Production Cross Section

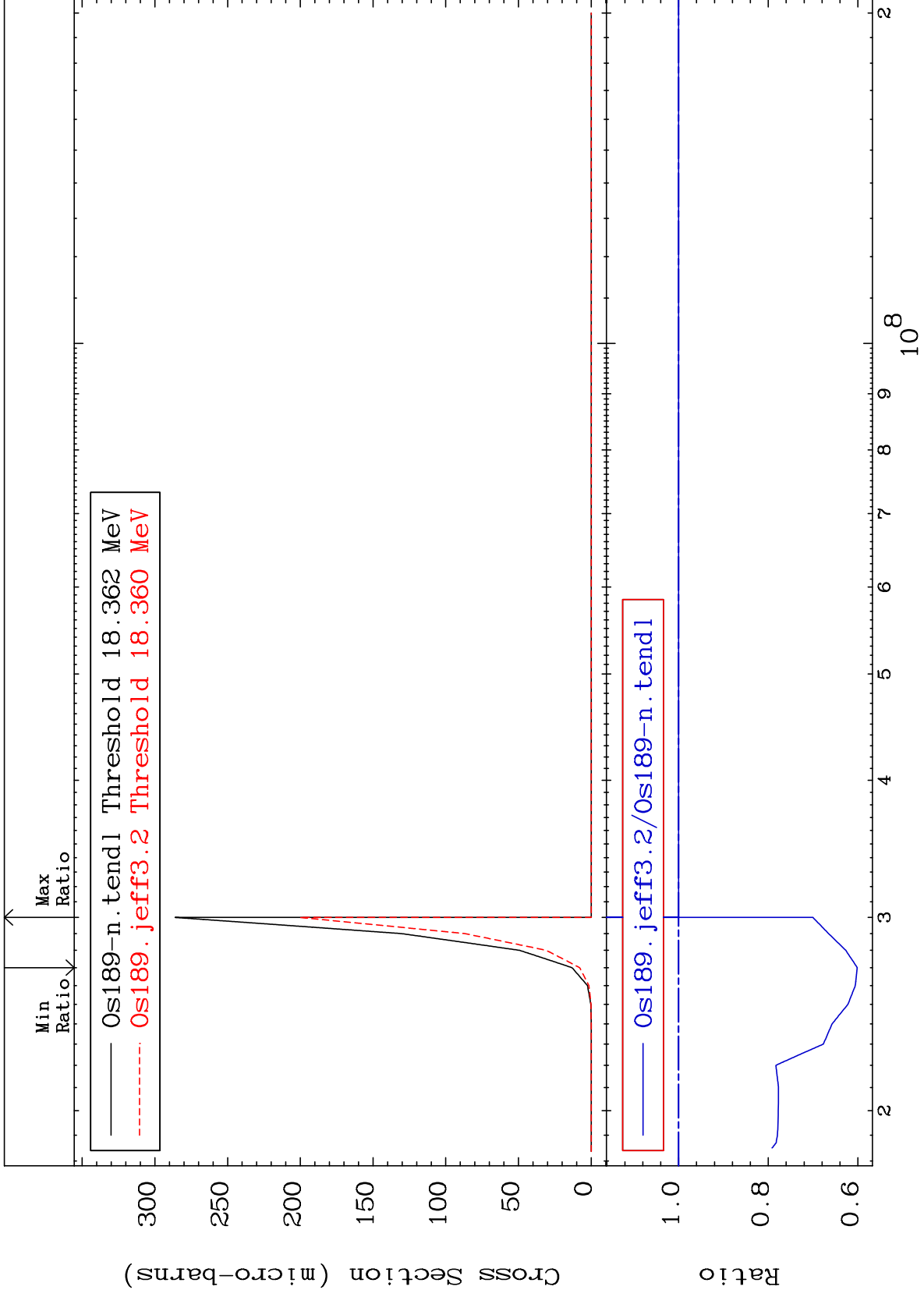
-11.97 To 23.88 %



77

Incident Energy (eV)

76-Os-189



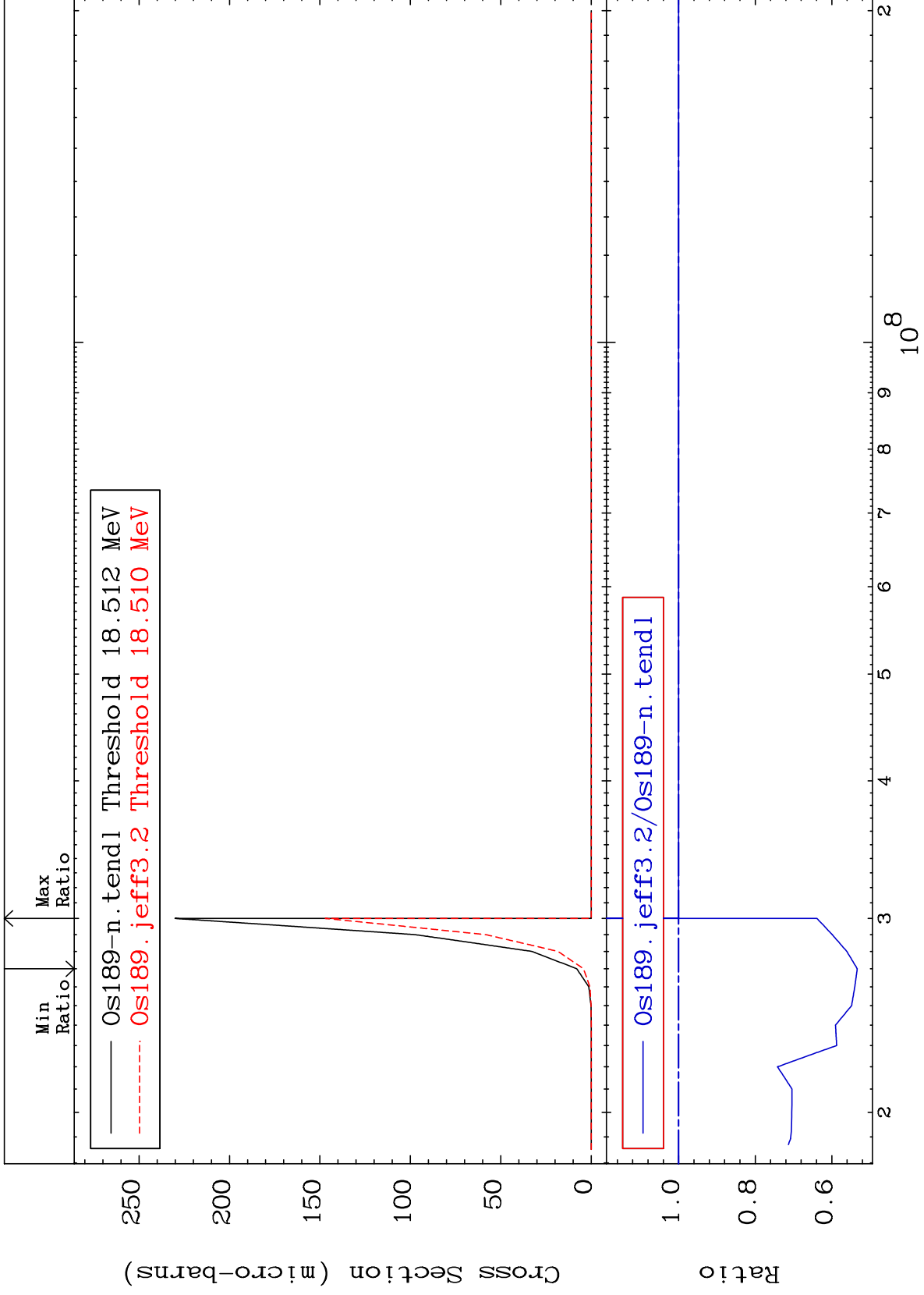
MAT 7640

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

76-0s-189

Radionuclide Production Cross Section

-46.64 To 0.000 %



79

Incident Energy (eV)

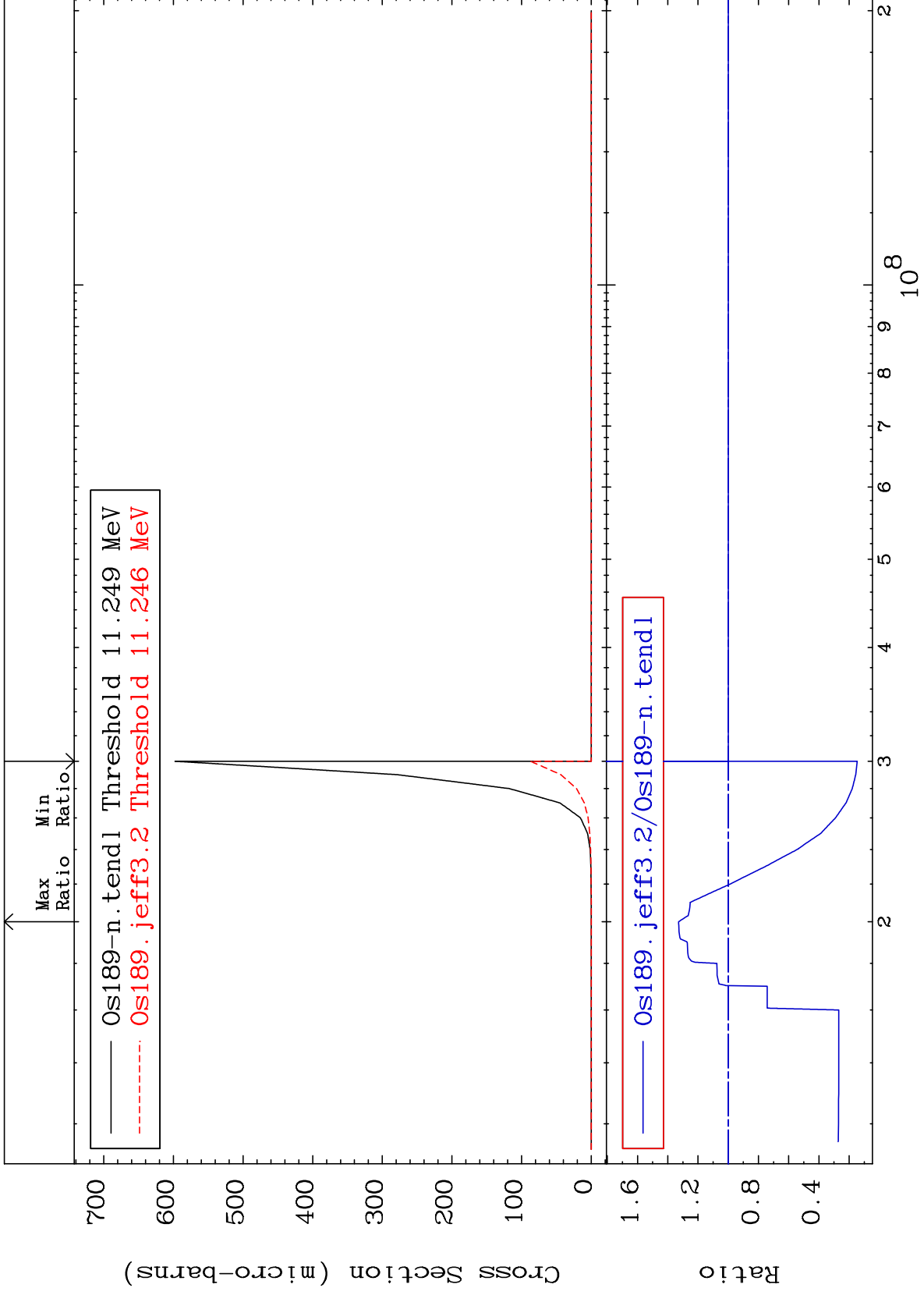
76-0s-189

MAT 7640

(n,3n) α : 74-W -183g

76-0s-189
-85.39 To 32.82 %

Radionuclide Production Cross Section



80

Incident Energy (eV)

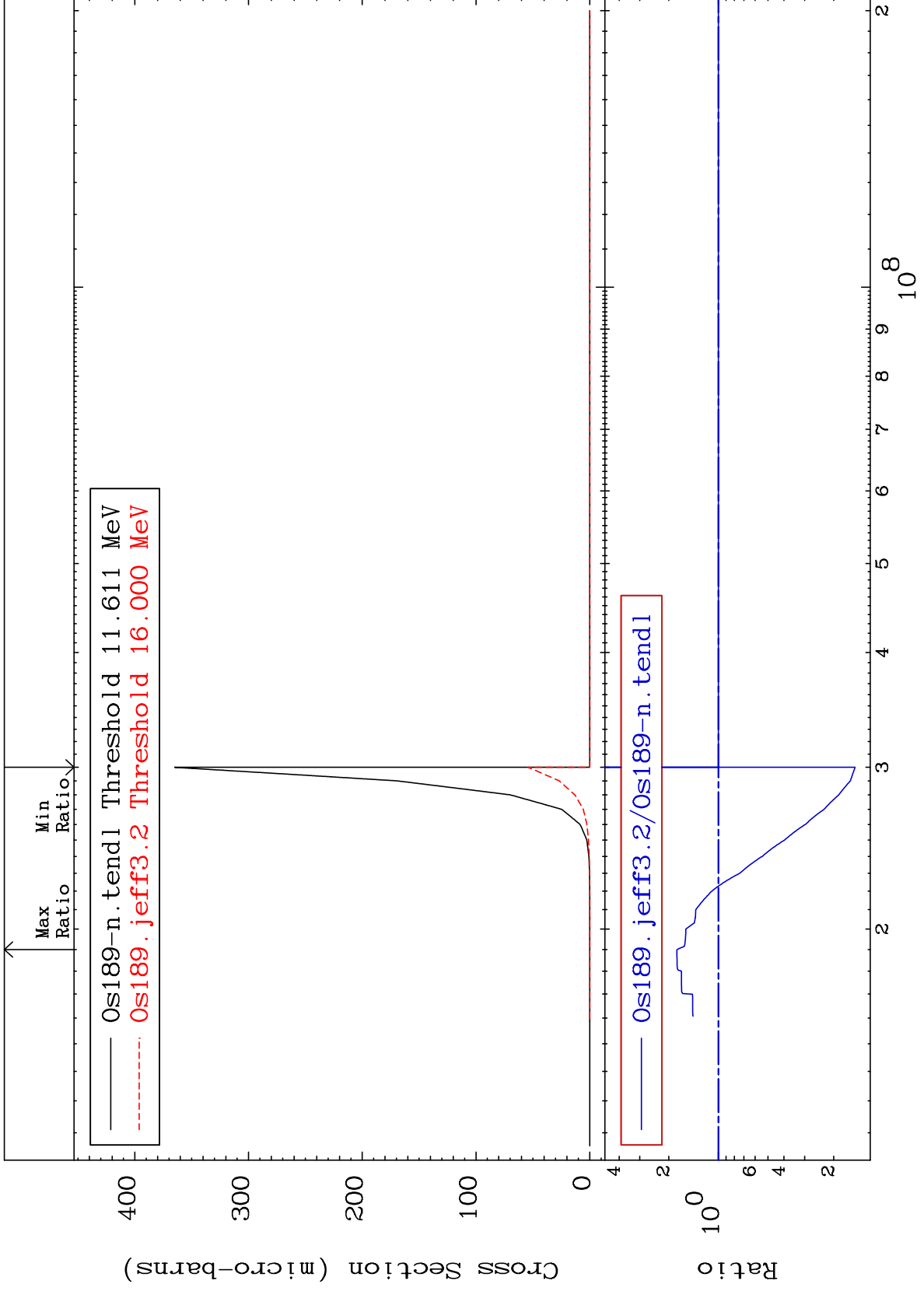
76-0s-189

MAT 7640

(n,3n) α :74-W -183m7

76-0s-189

Radionuclide Production Cross Section -85.18 To 78.60 %

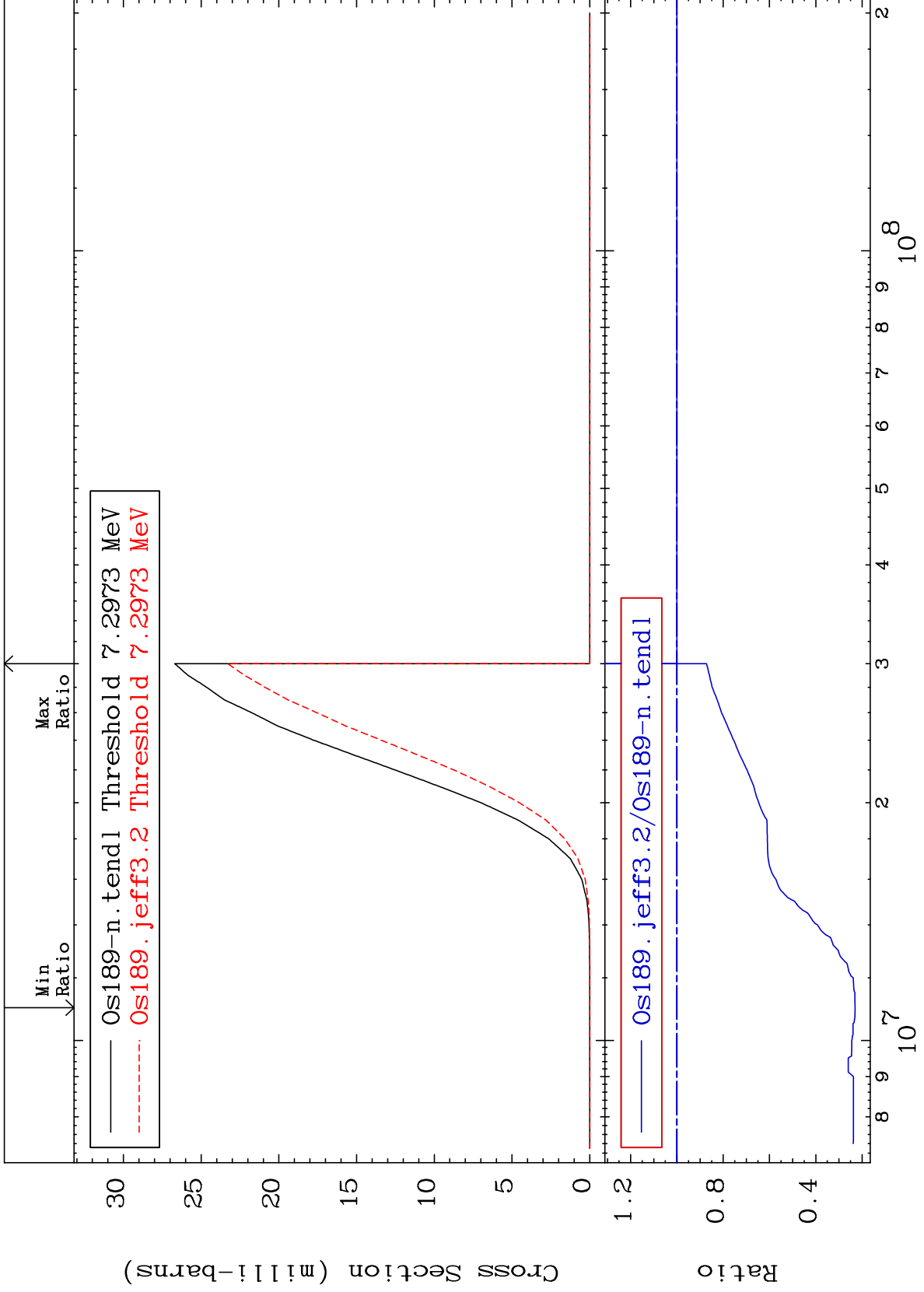


MAT 7640

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

76-0s-189

Radionuclide Production Cross Section -76.98 To 0.000 %



82

Incident Energy (eV)

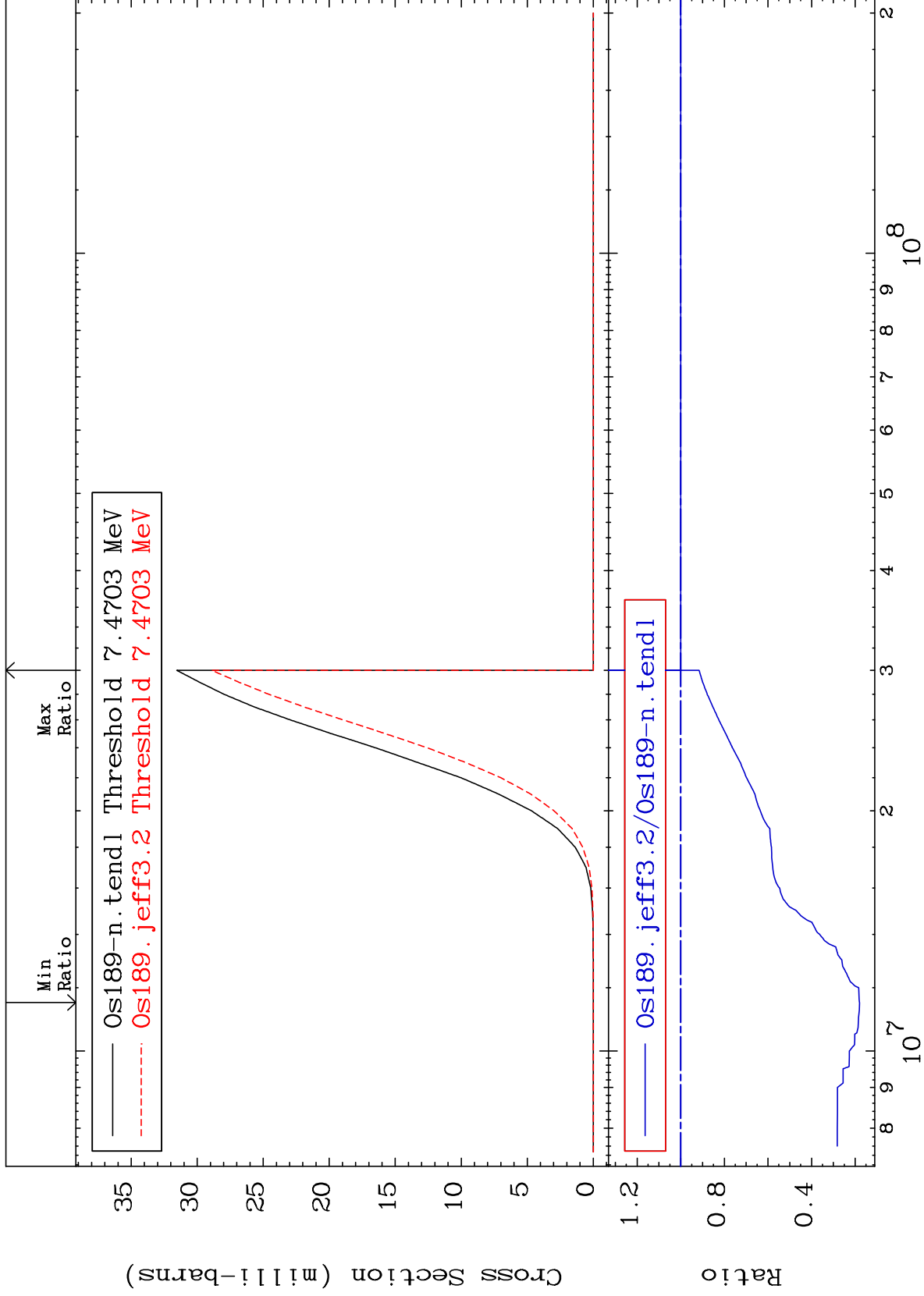
76-0s-189

MAT 7640

(n,n') p:75-Re-188m7

76-0s-189

Radionuclide Production Cross Section -82.01 To 0.000 %



83

Incident Energy (eV)

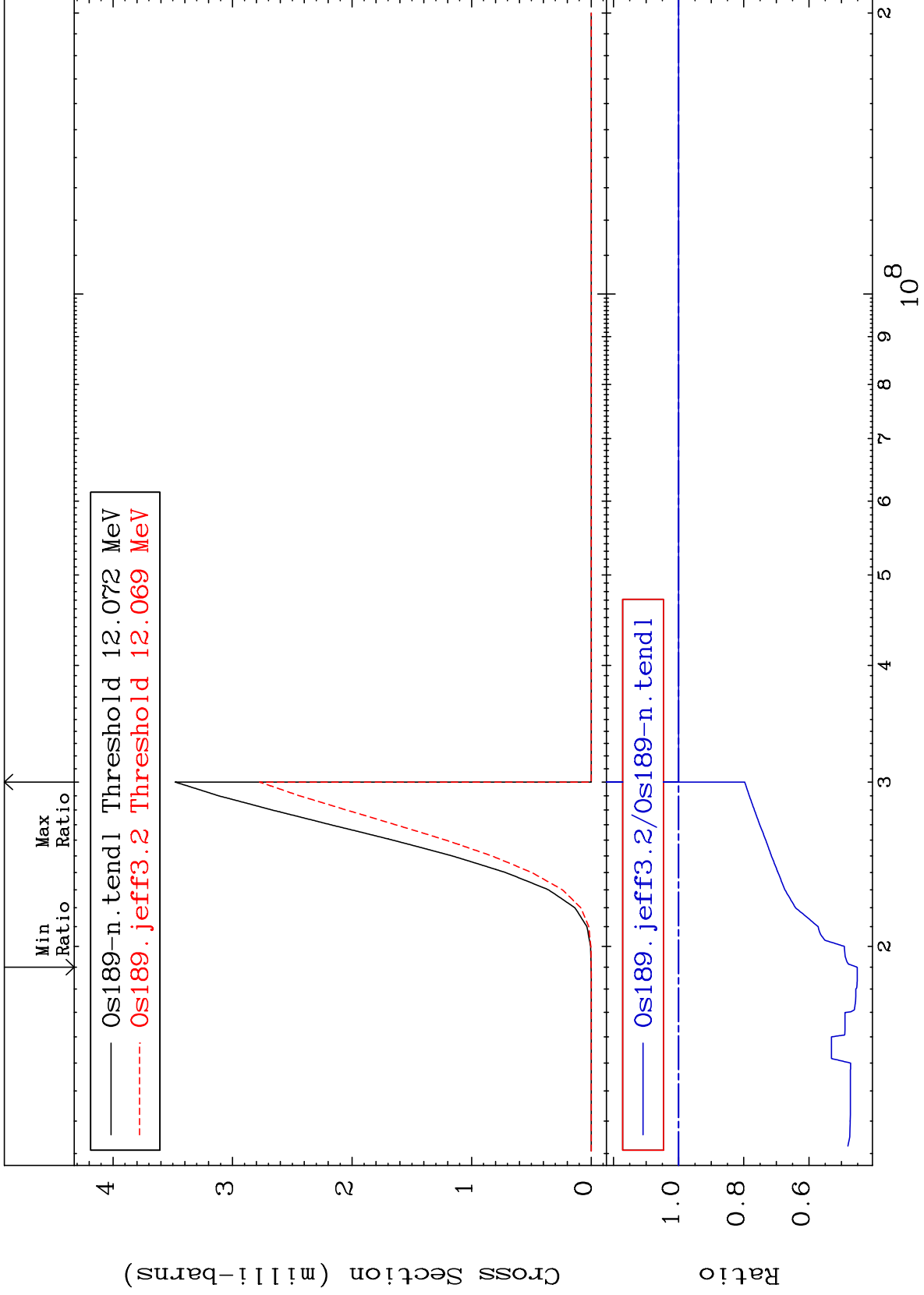
76-0s-189

MAT 7640

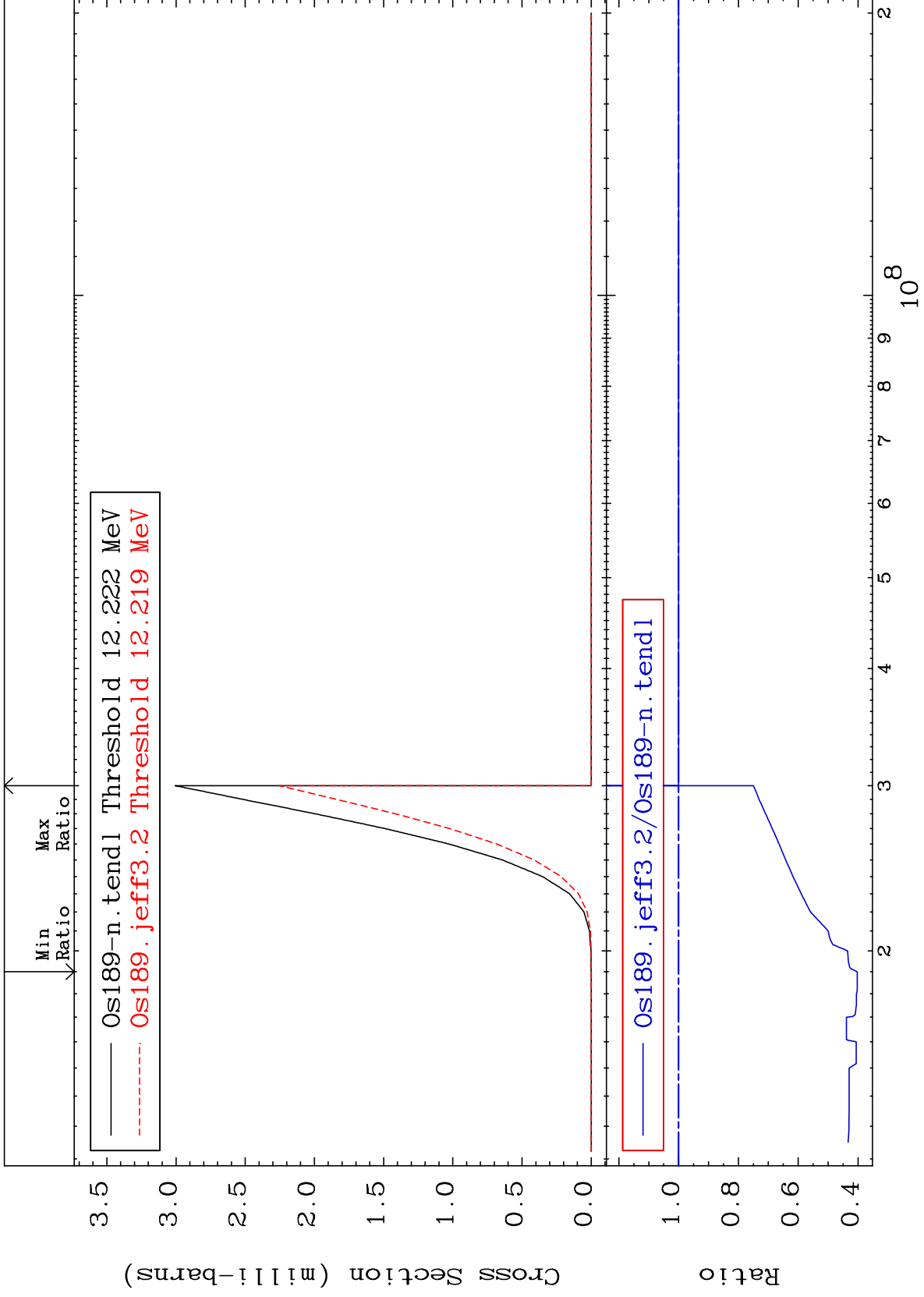
(n, n') t: 75-Re-186g

76-0s-189

Radionuclide Production Cross Section -54.84 To 0.000 %



Radionuclide Production Cross Section -59.76 To 0.000 %



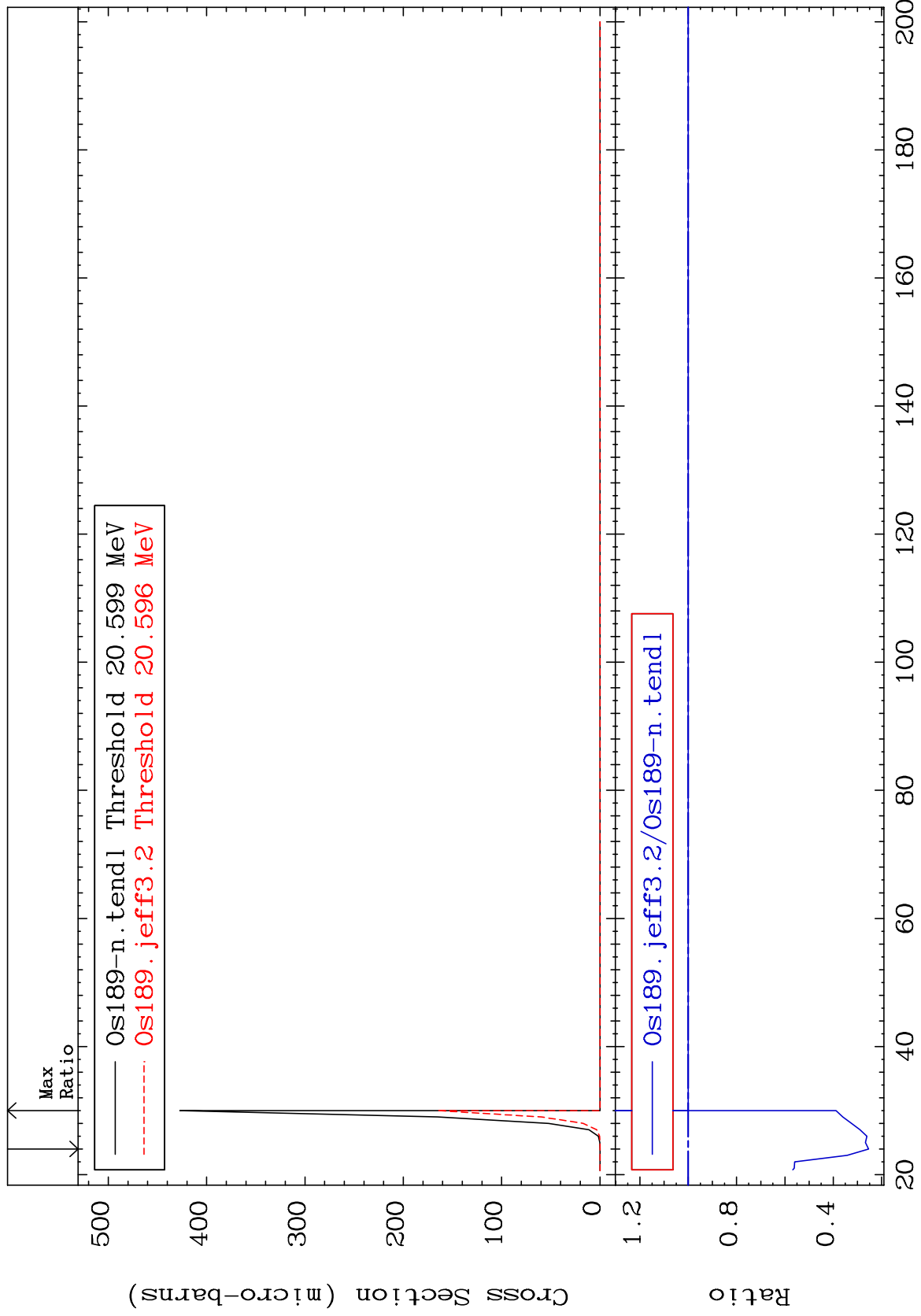
MAT 7640

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

76-0s-189

Radionuclide Production Cross Section

-74.60 To 0.000 %



86

Incident Energy (MeV)

76-0s-189

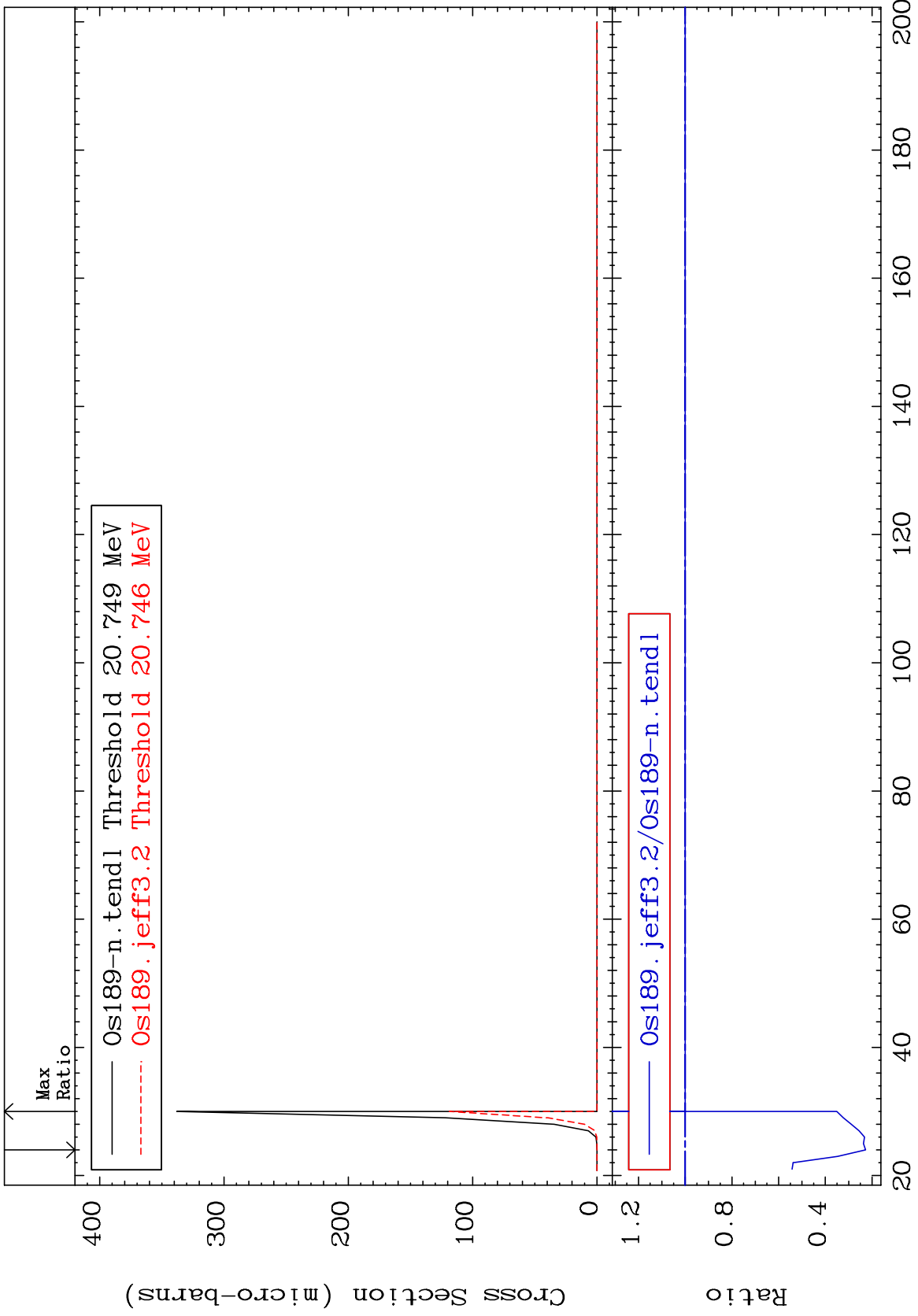
MAT 7640

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

76-0s-189

Radionuclide Production Cross Section

-77.24 To 0.000 %

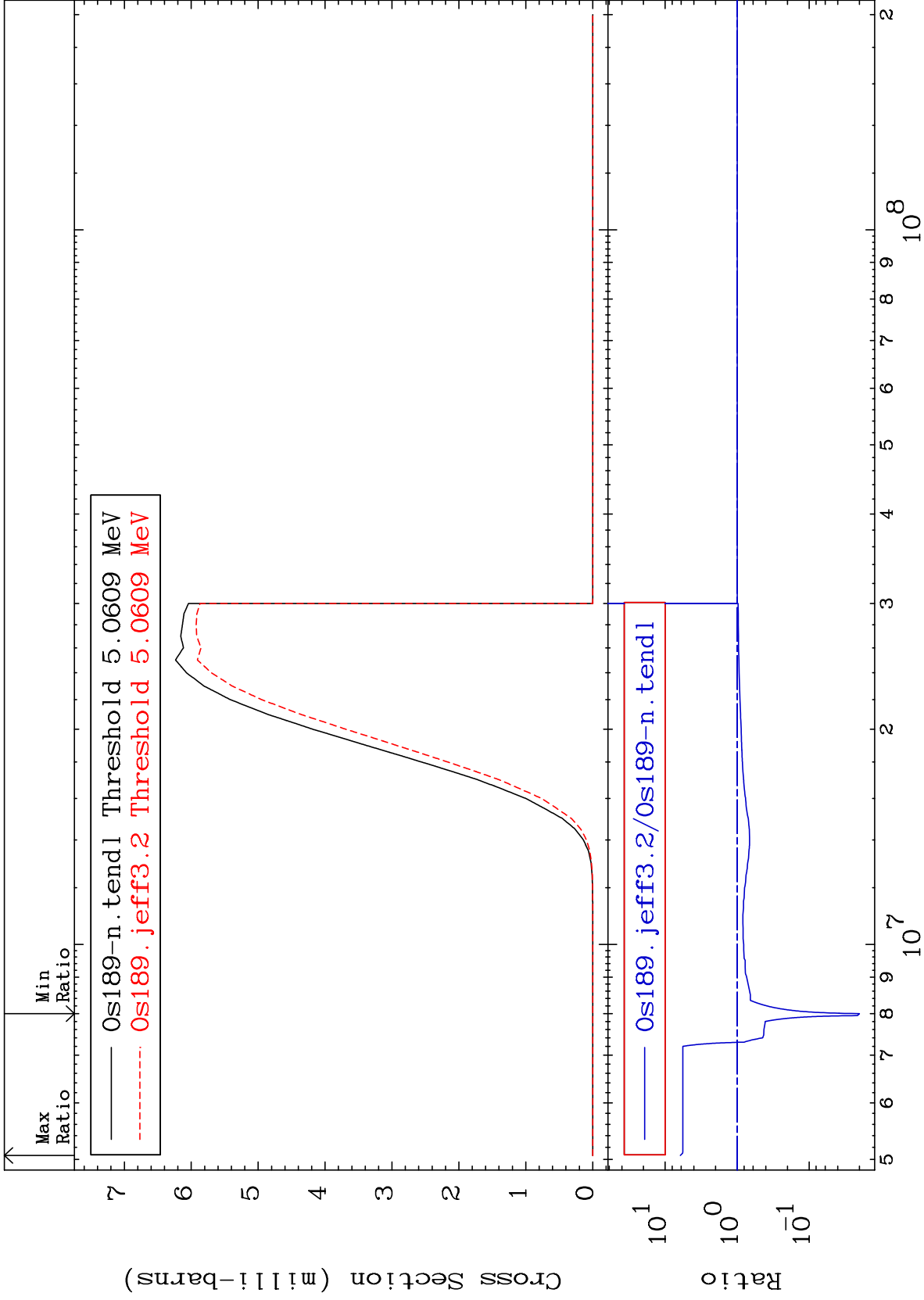


87

Incident Energy (MeV)

76-0s-189

Radionuclide Production Cross Section -97.99 To 515.4 %

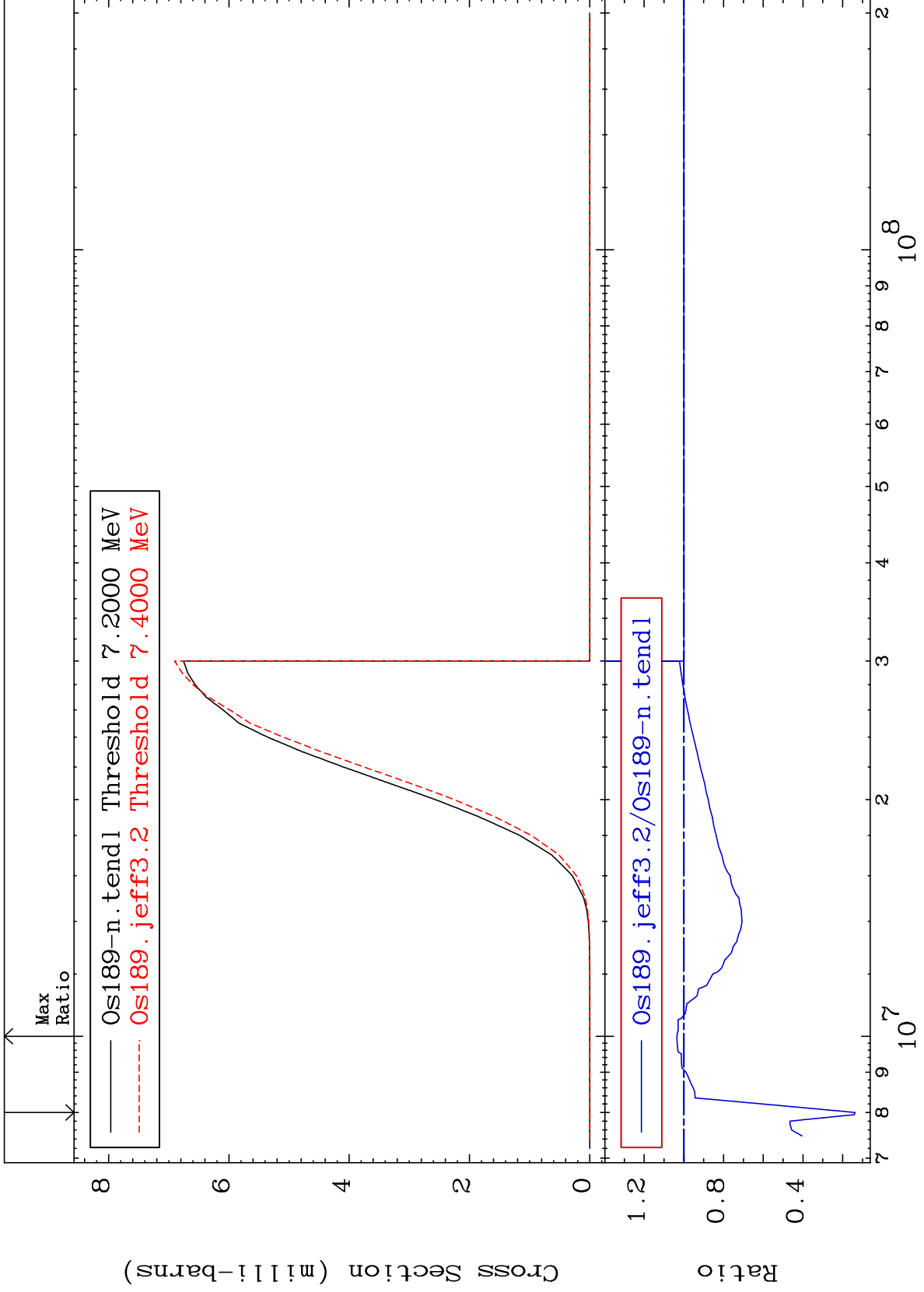


MAT 7640

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

76-0s-189

Radionuclide Production Cross Section -86.29 To 3.485 %



89

Incident Energy (eV)

76-0s-189