

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

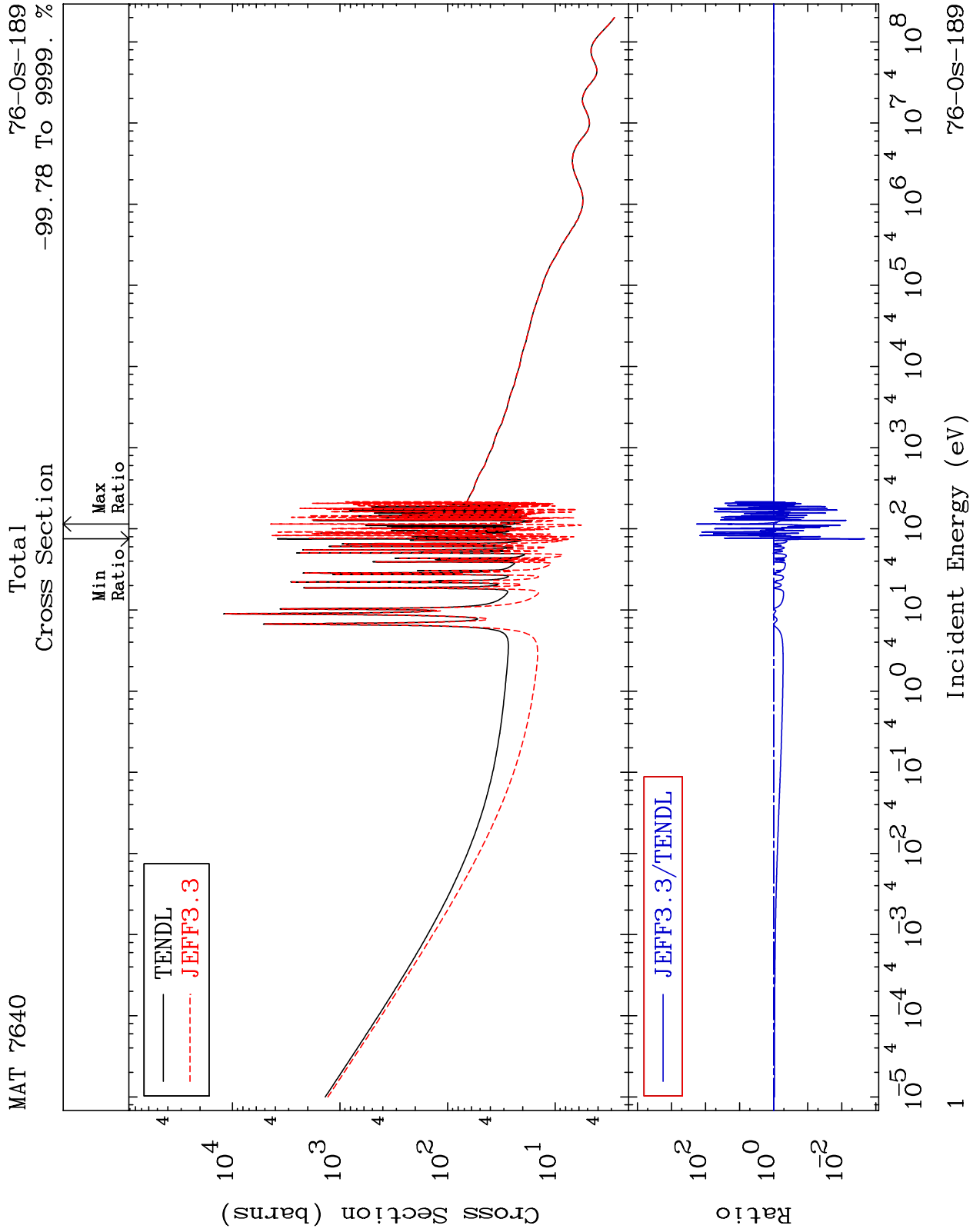
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

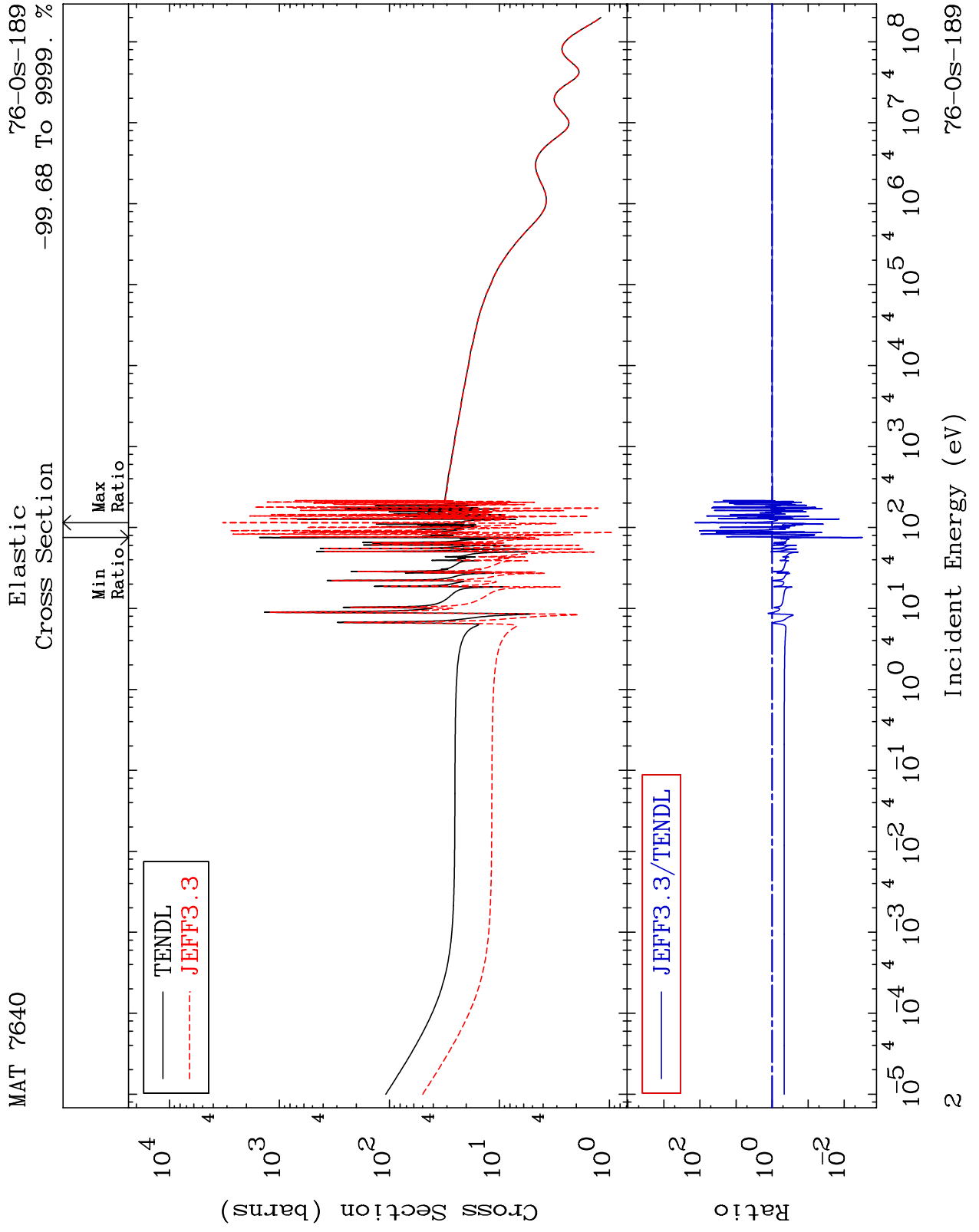
U.S.A.

Tele: 925-443-1911

E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start



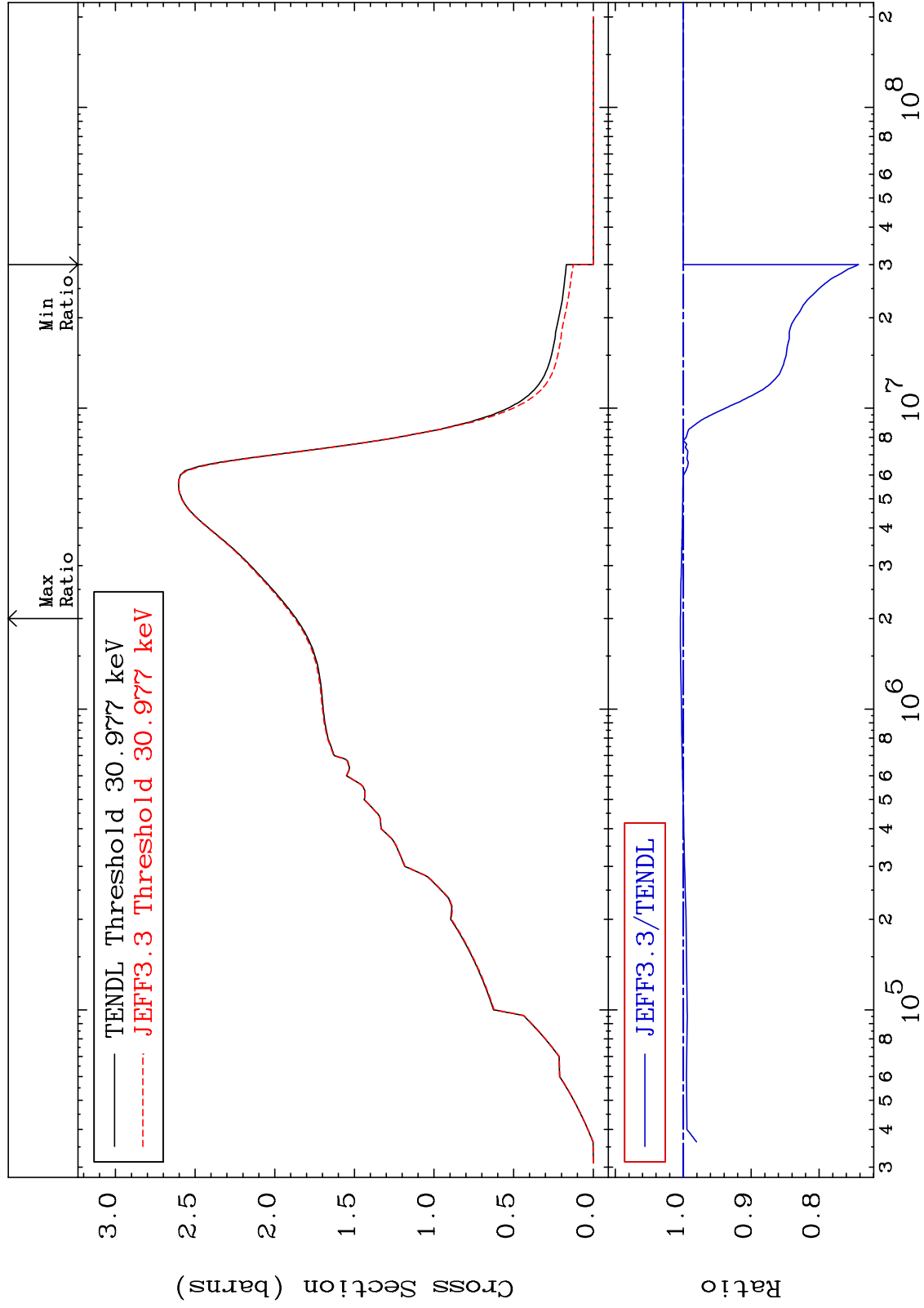


MAT 7640

Inelastic
Cross Section

76-0s-189

-25.79 To 0.416 %



3

Incident Energy (eV)

76-0s-189

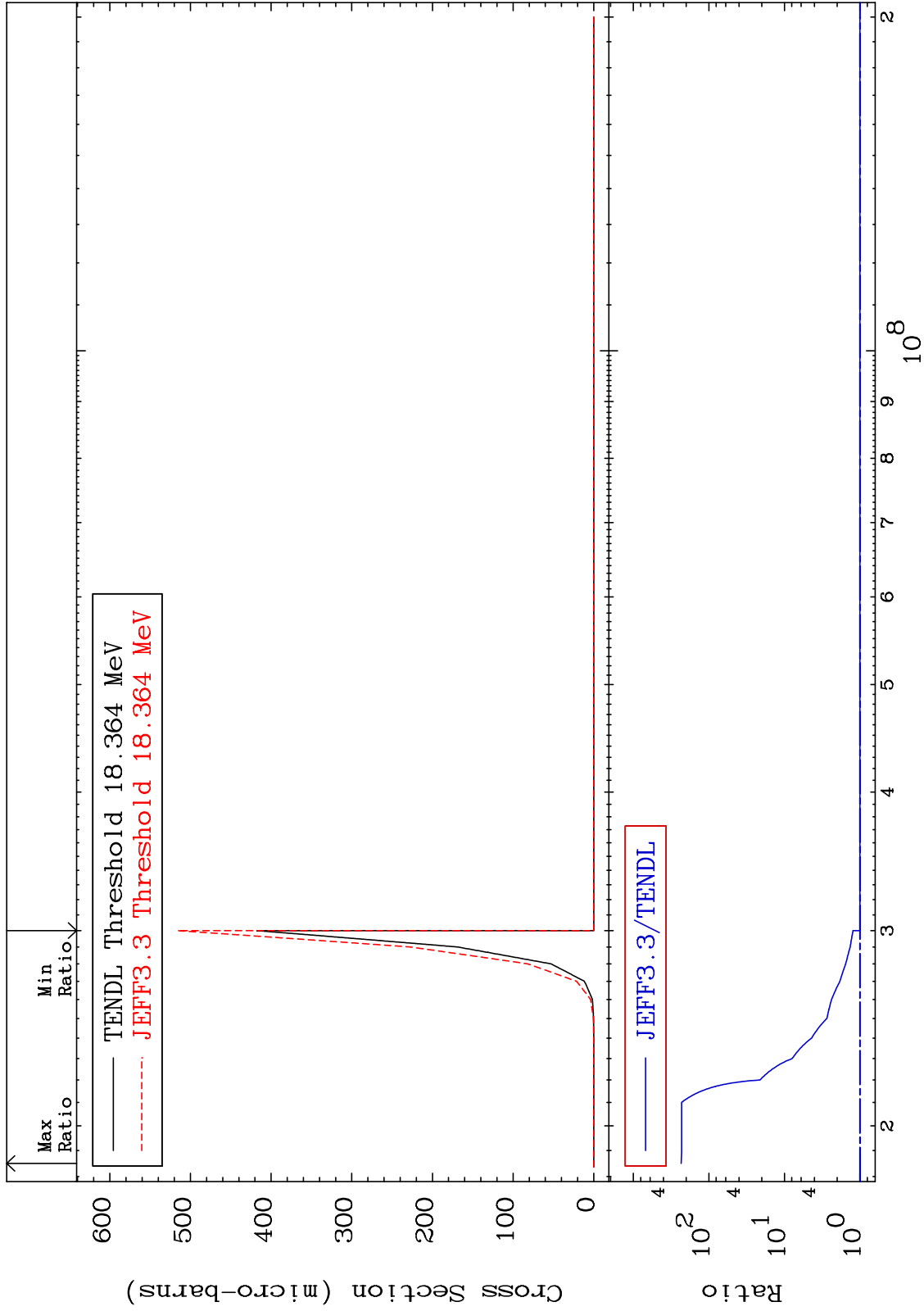
MAT 7640

(n,2n) d

76-0s-189

Cross Section

0.000 To 9999. %



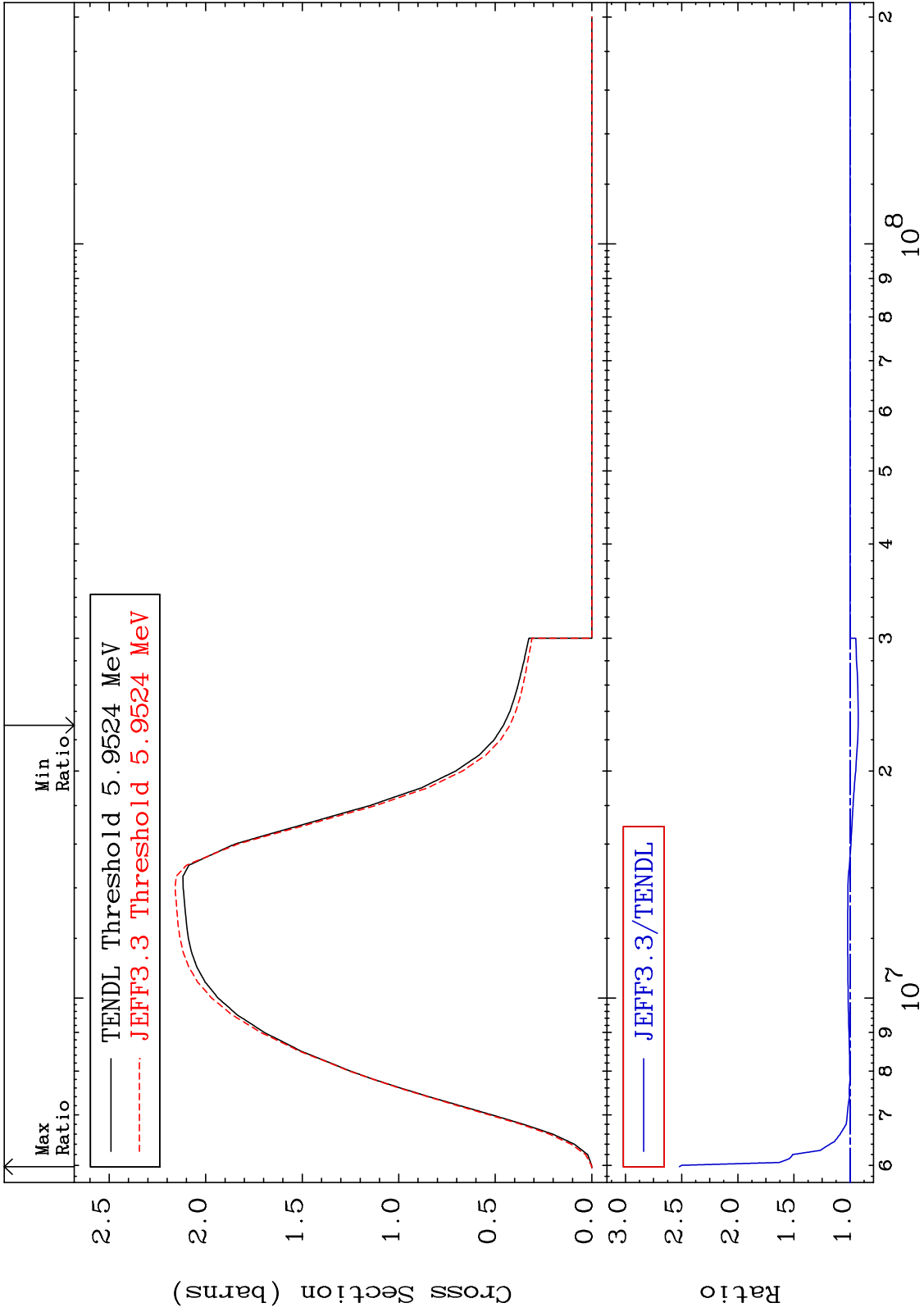
MAT 7640

(n,2n)

76-0s-189

Cross Section

-7.227 To 152.0 %



5

Incident Energy (eV)

76-0s-189

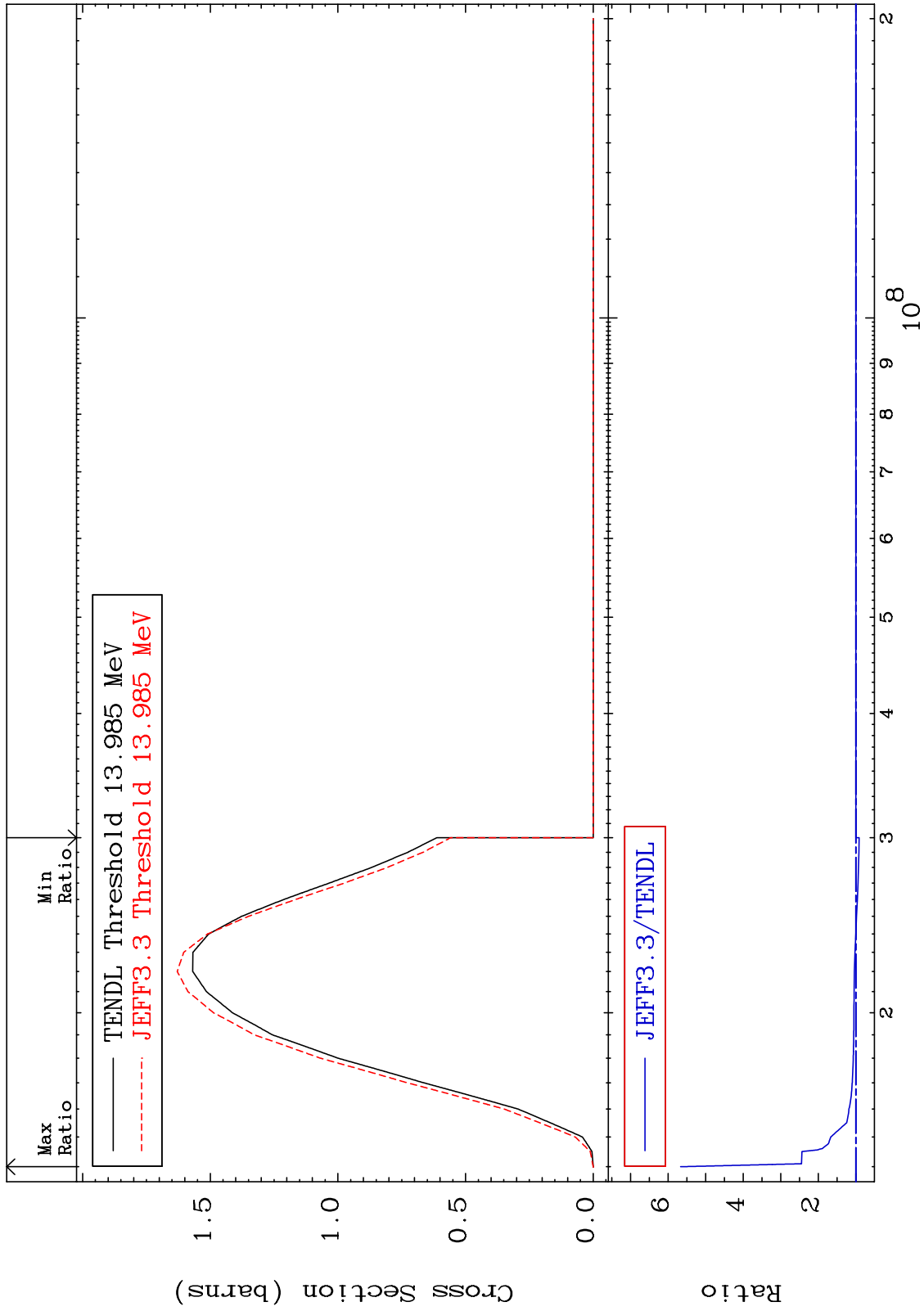
MAT 7640

(n, 3n)

76-Os-189

Cross Section

-8.799 To 466.6 %



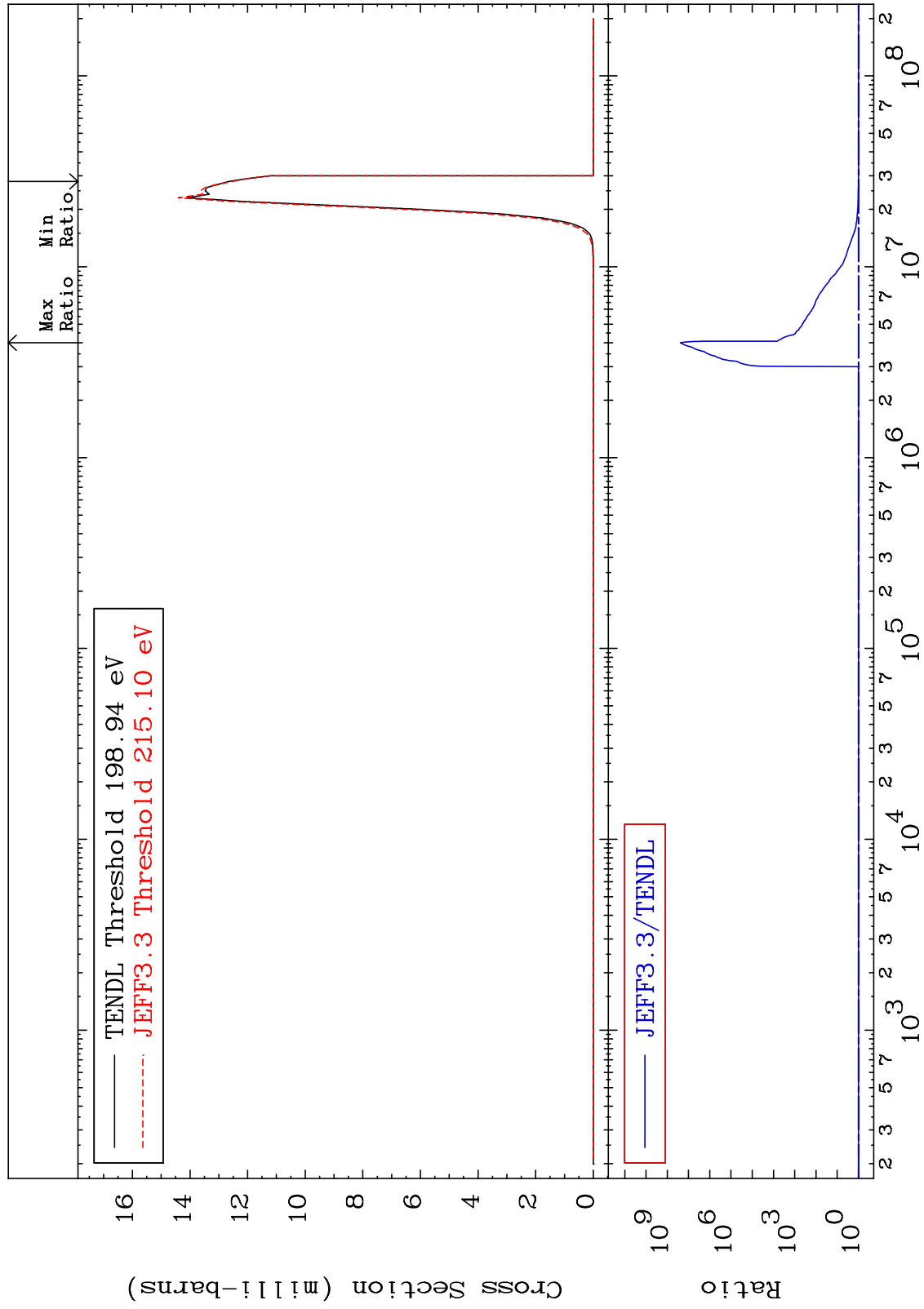
MAT 7640

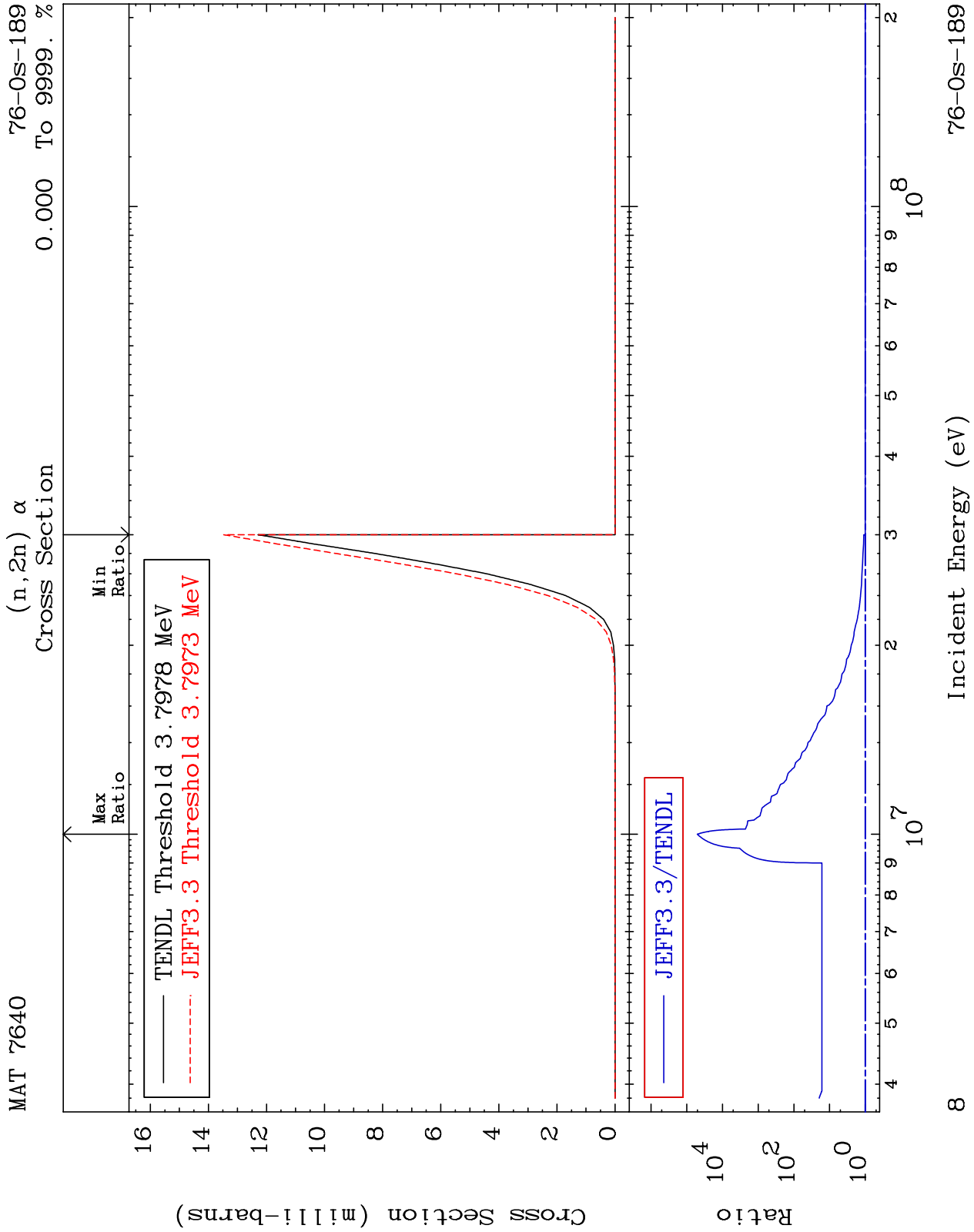
(n, n') α

Cross Section

76-0s-189

-0.911 To 9999. %





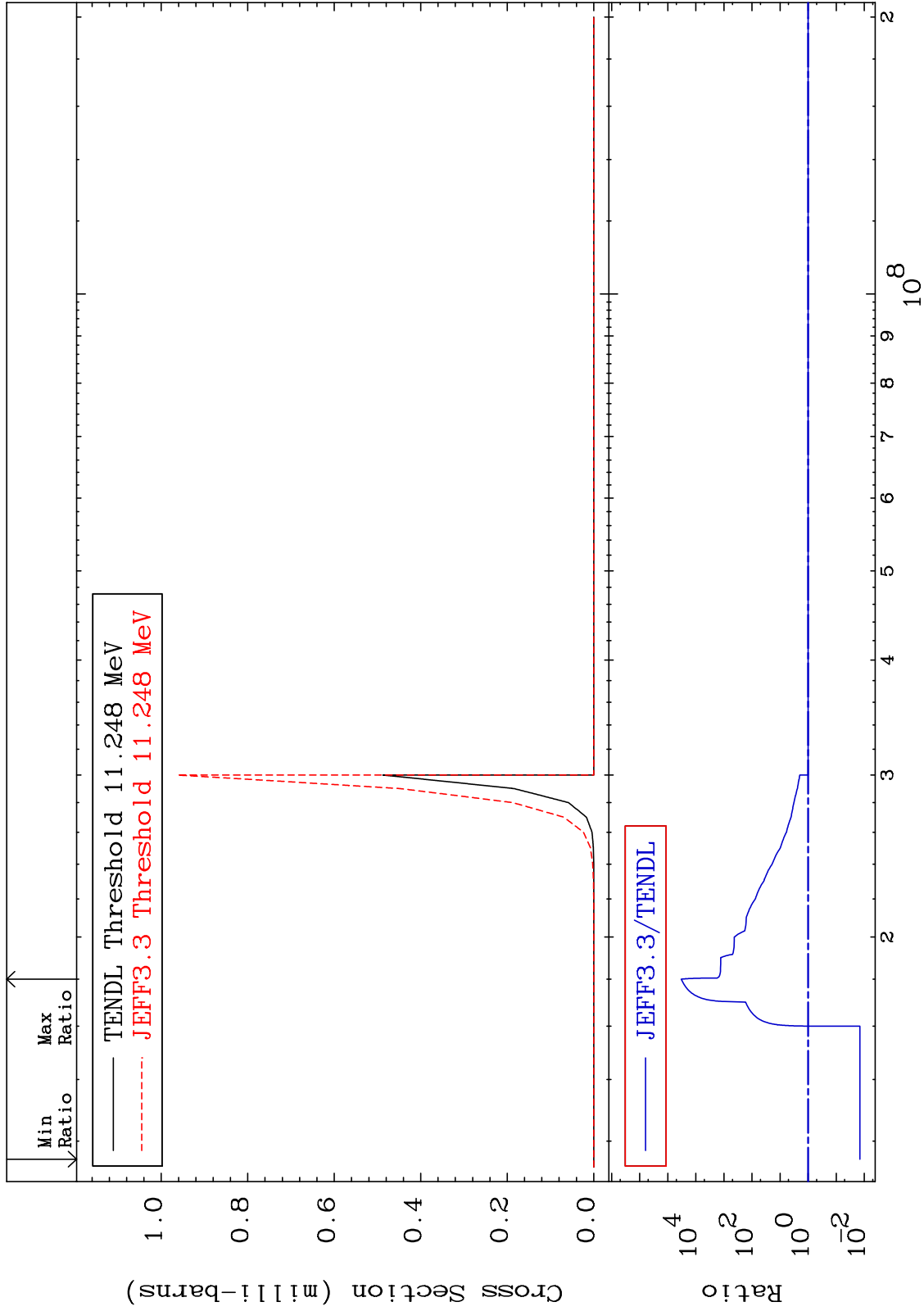
MAT 7640

(n,3n) α

76-0s-189

Cross Section

-98.57 To 9999. %



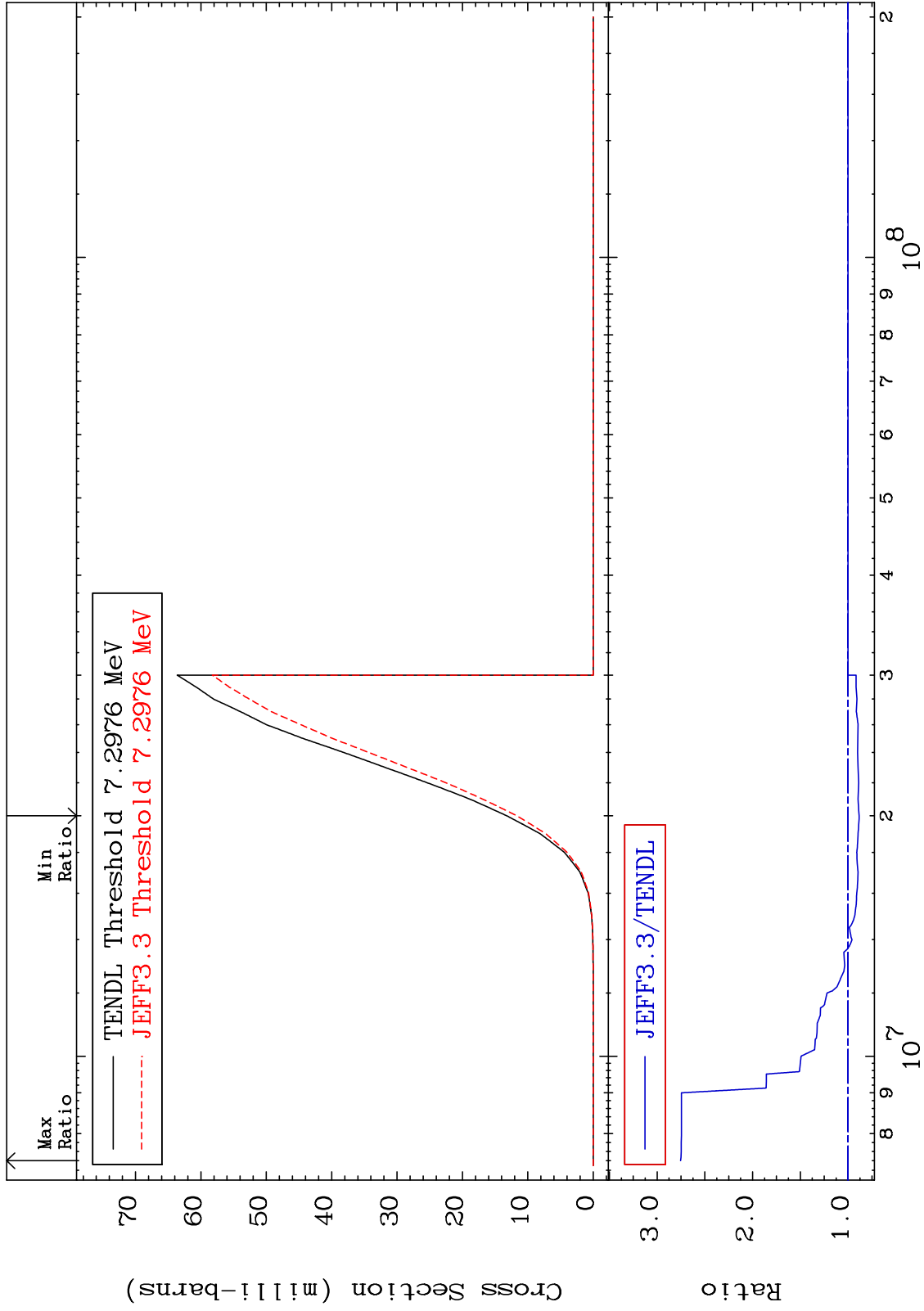
MAT 7640

(n,n') p

76-0s-189

Cross Section

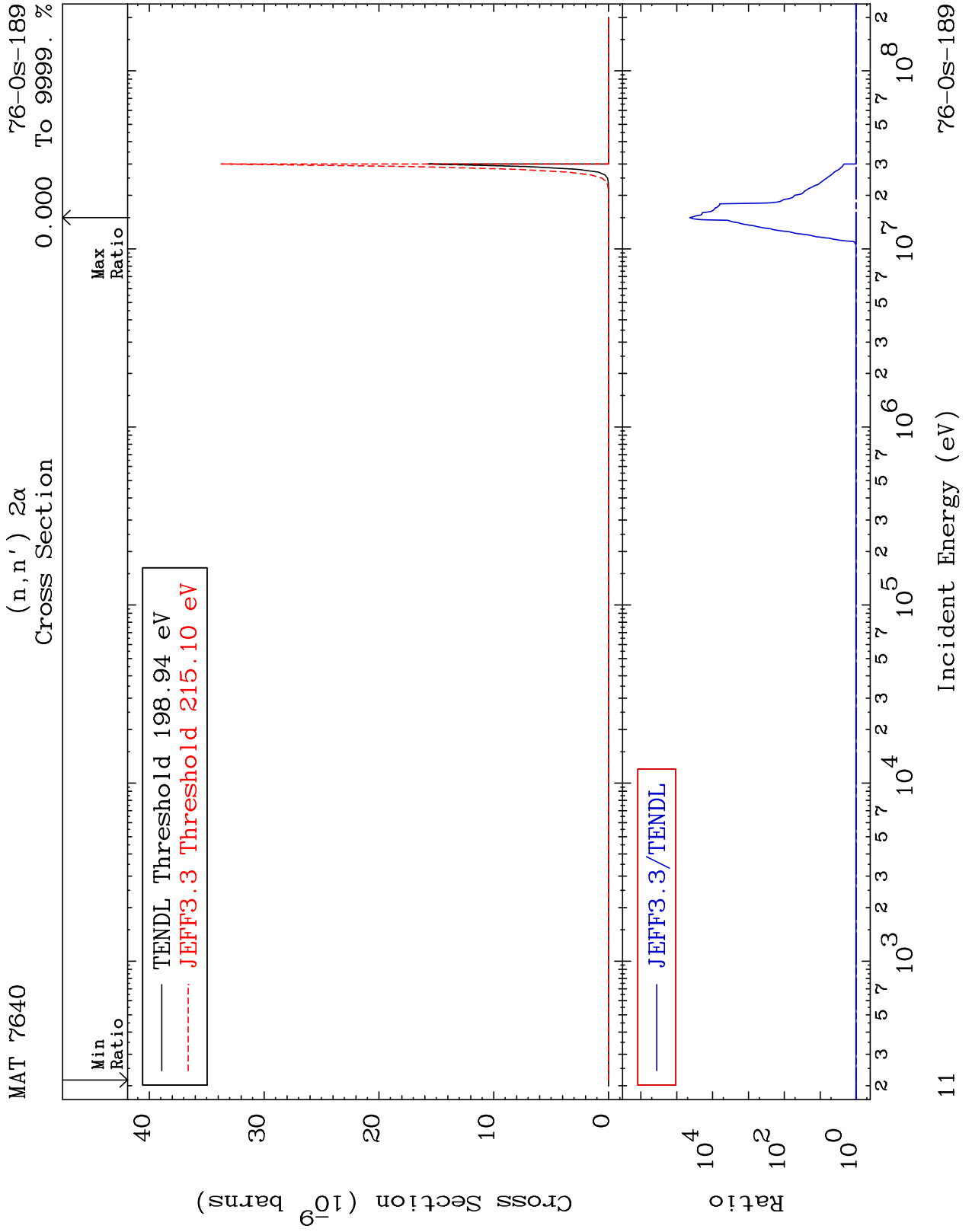
-11.66 To 175.4 %



10

Incident Energy (eV)

76-0s-189



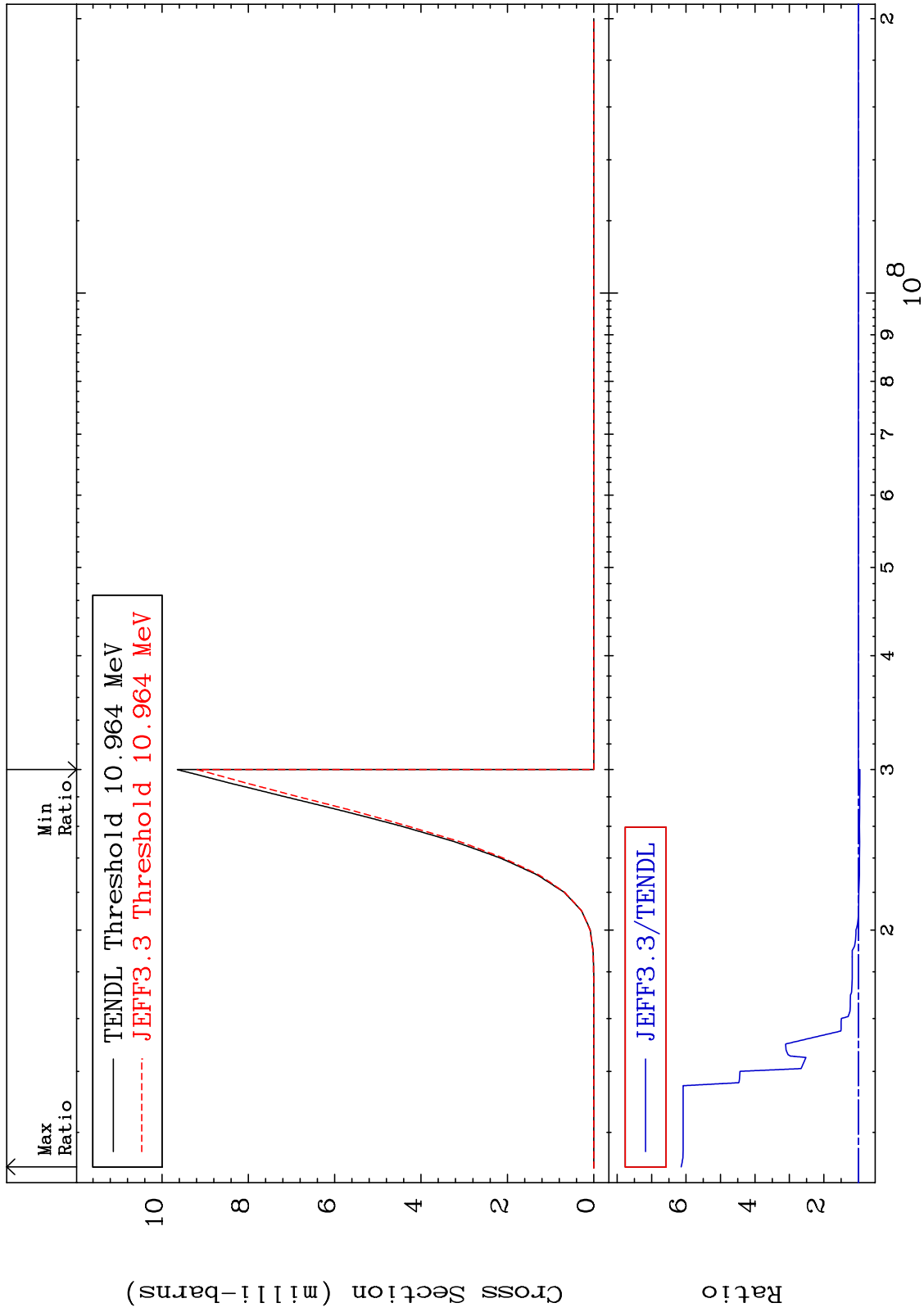
MAT 7640

(n, n') d

76-0s-189

Cross Section

-4.784 To 514.0 %



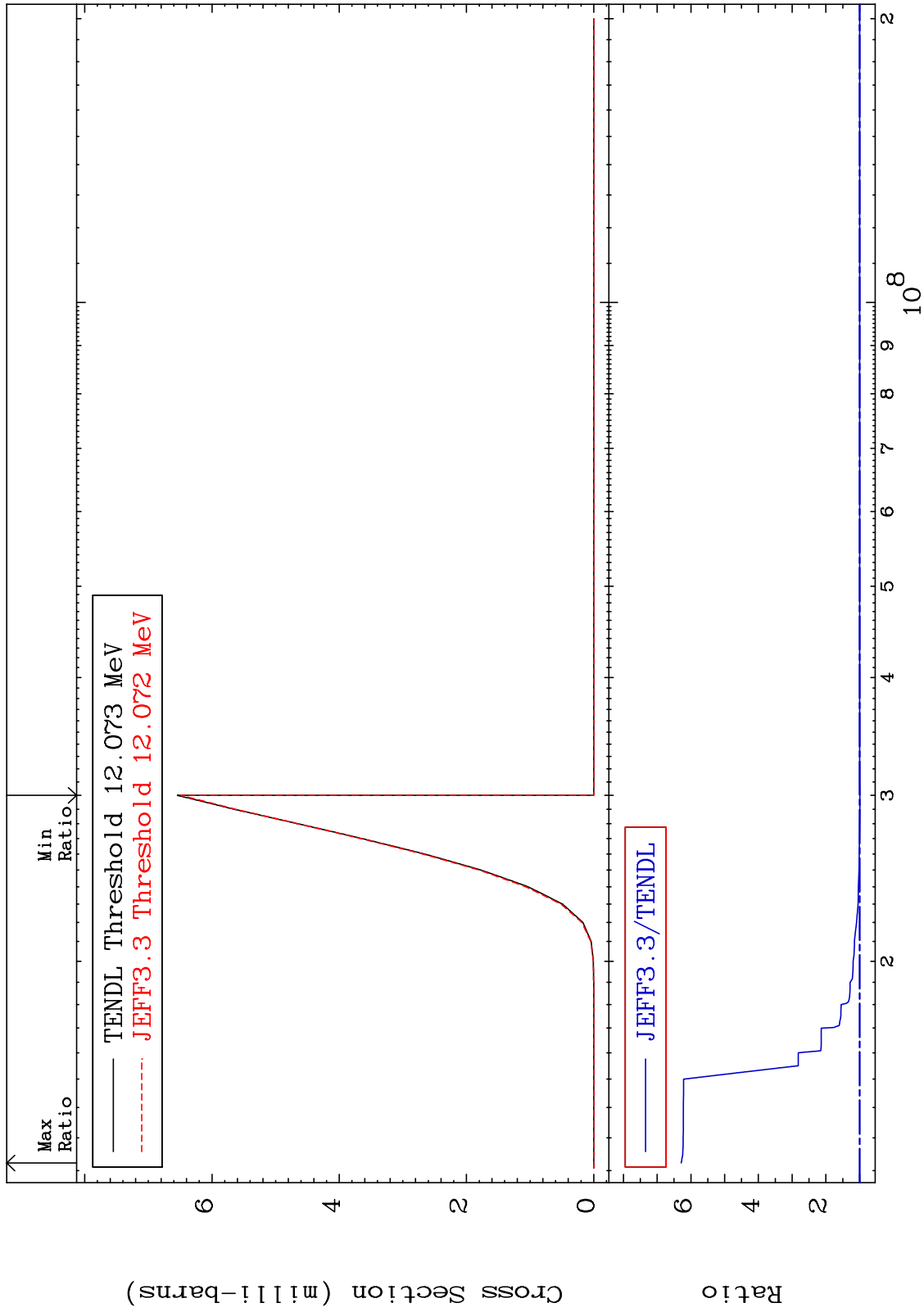
MAT 7640

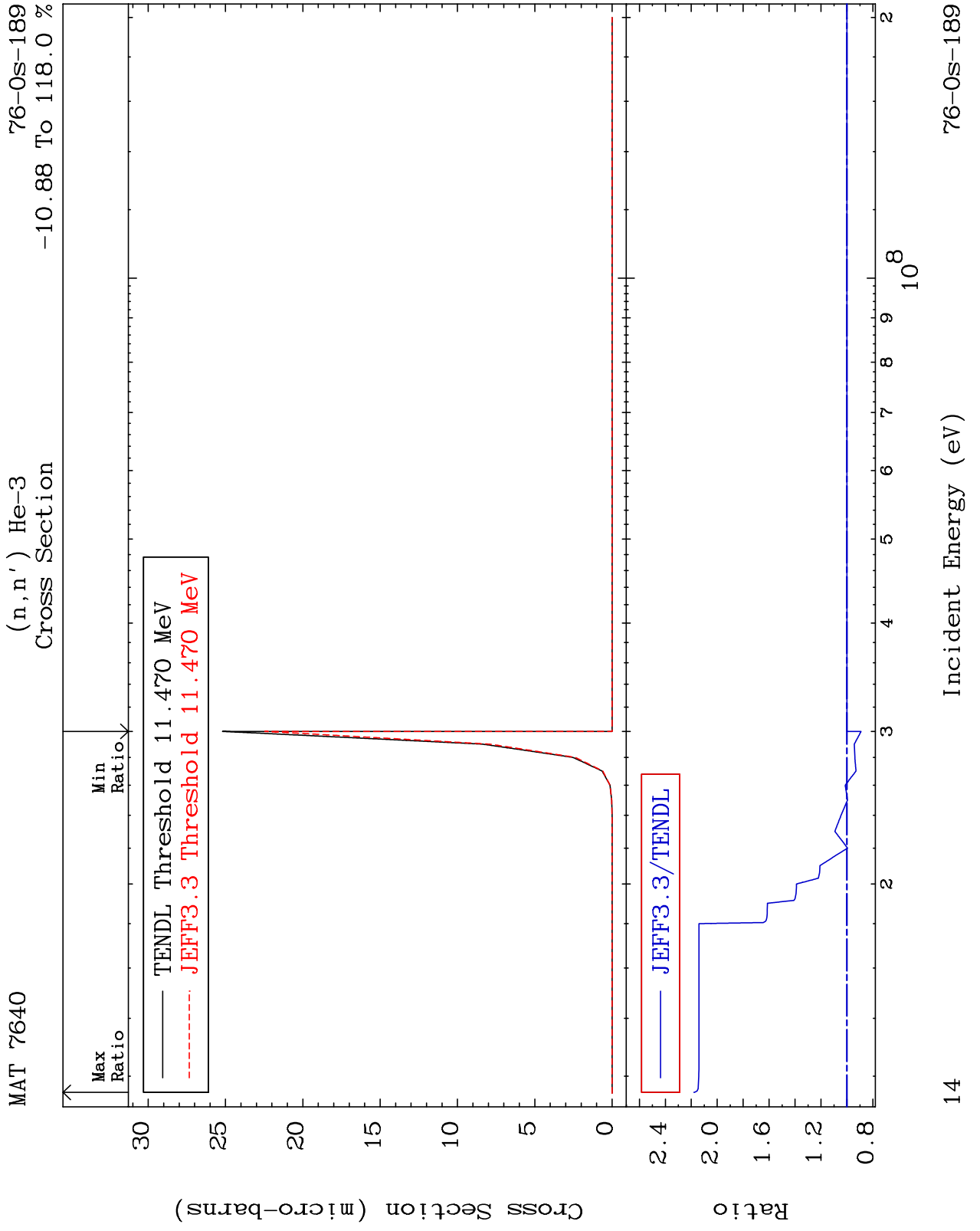
(n, n') t

76-0s-189

Cross Section

-0.851 To 528.6 %





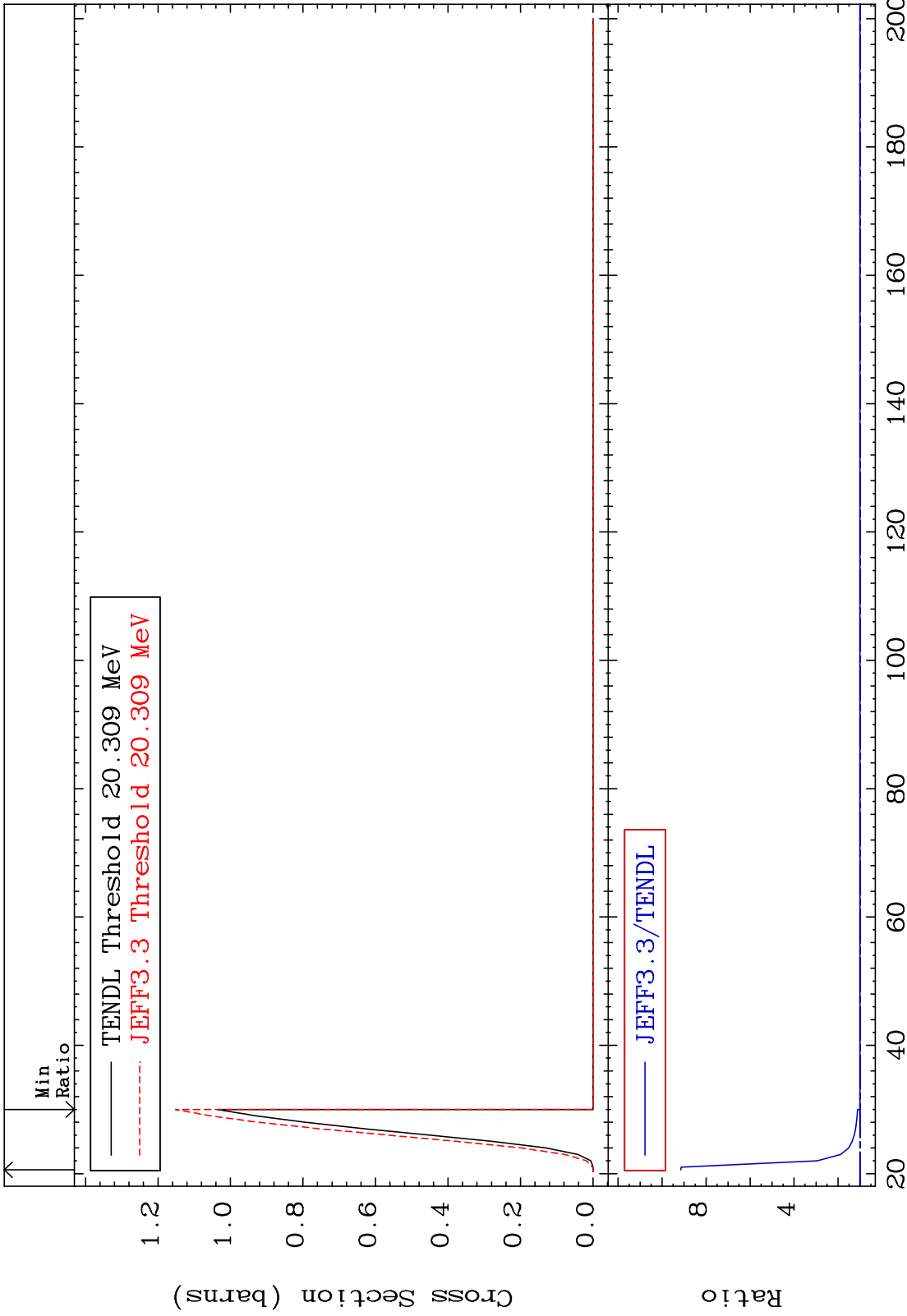
MAT 7640

(n, 4n)

76-0s-189

Cross Section

0.000 To 815.1 %



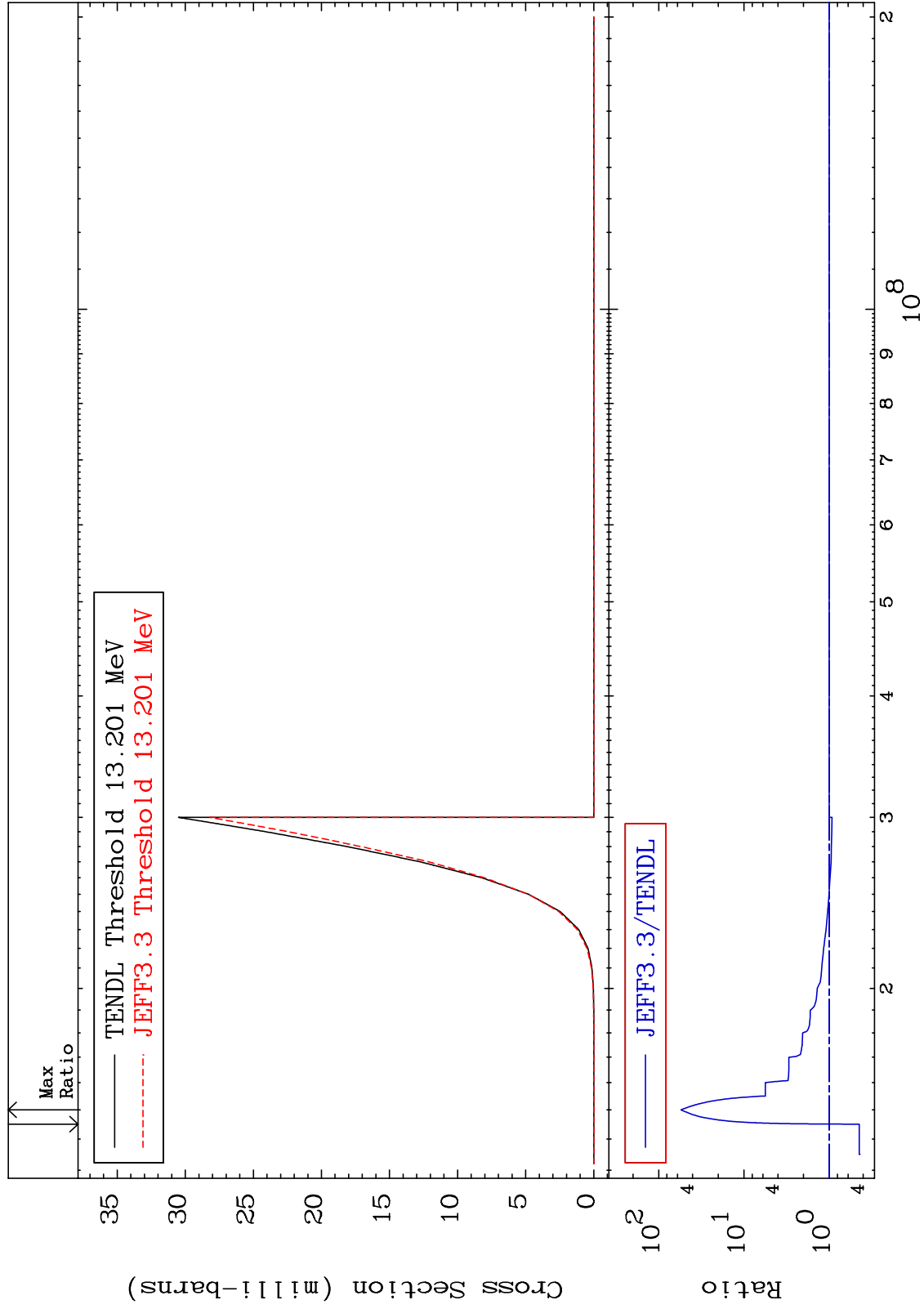
76-0s-189

Incident Energy (MeV)

MAT 7640

(n,2n) p
Cross Section

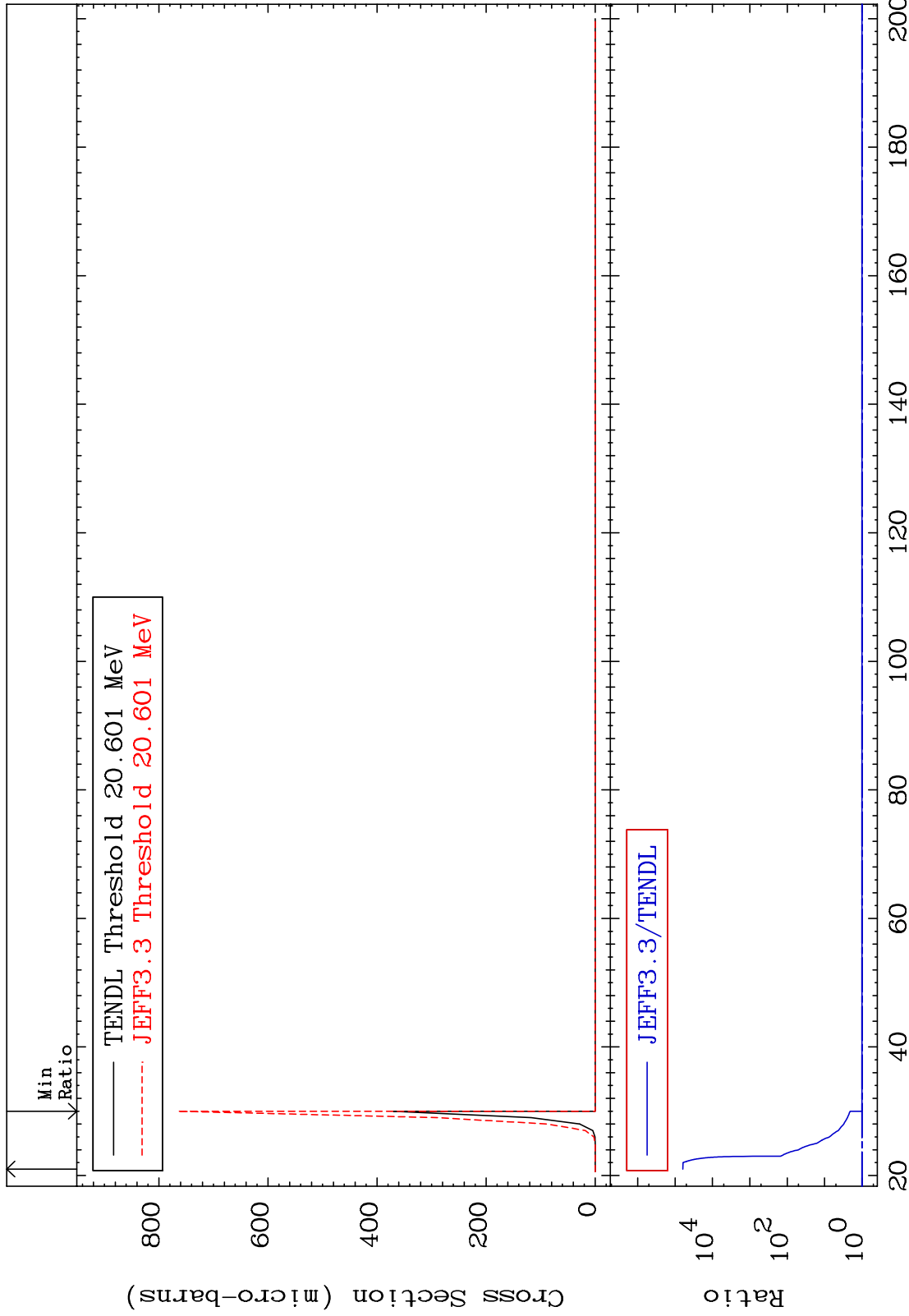
76-0s-189
-55.65 To 5362. %



MAT 7640

(n,3n) p
Cross Section

76-0s-189
0.000 To 9999. %

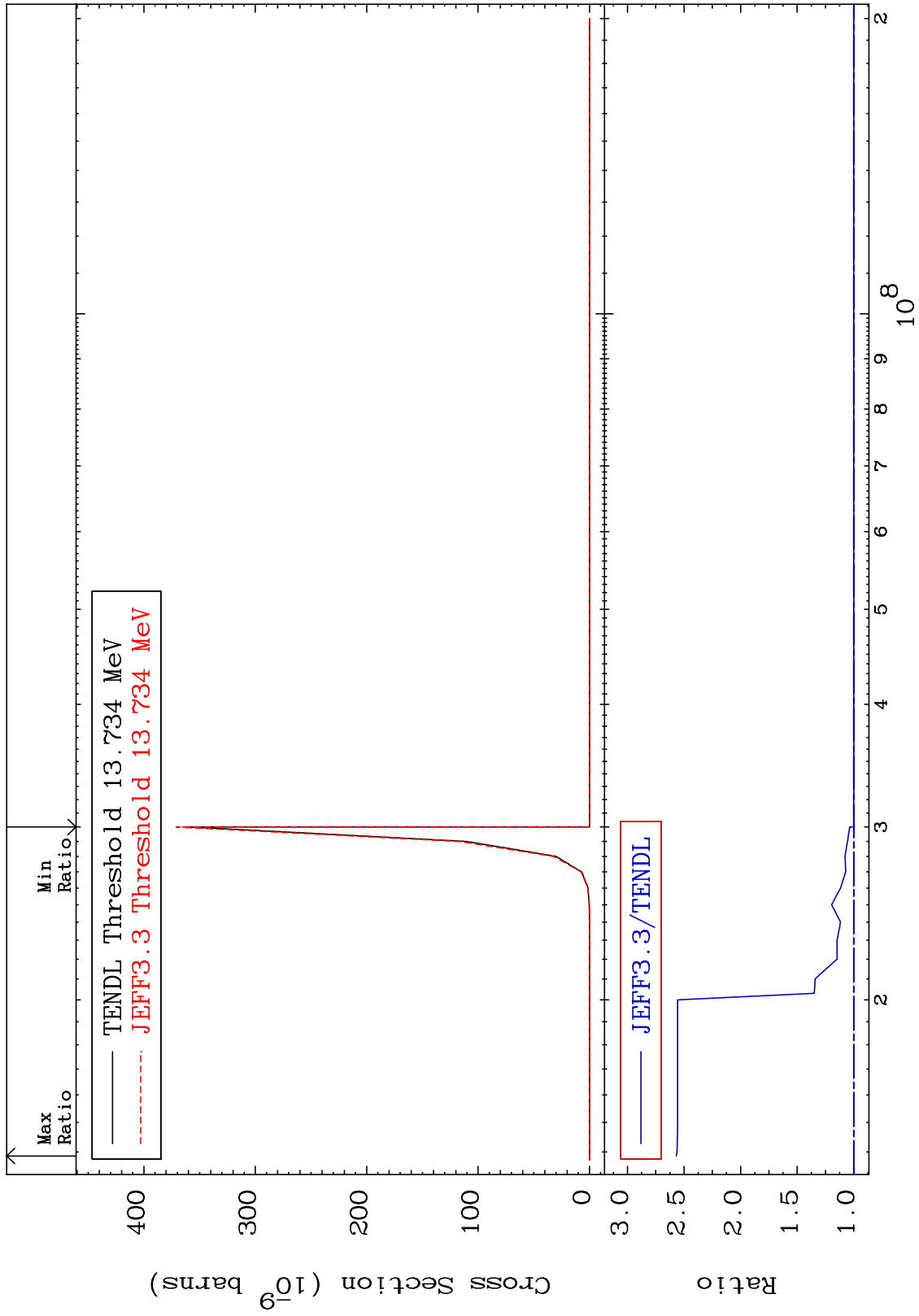


17

Incident Energy (MeV)

76-0s-189

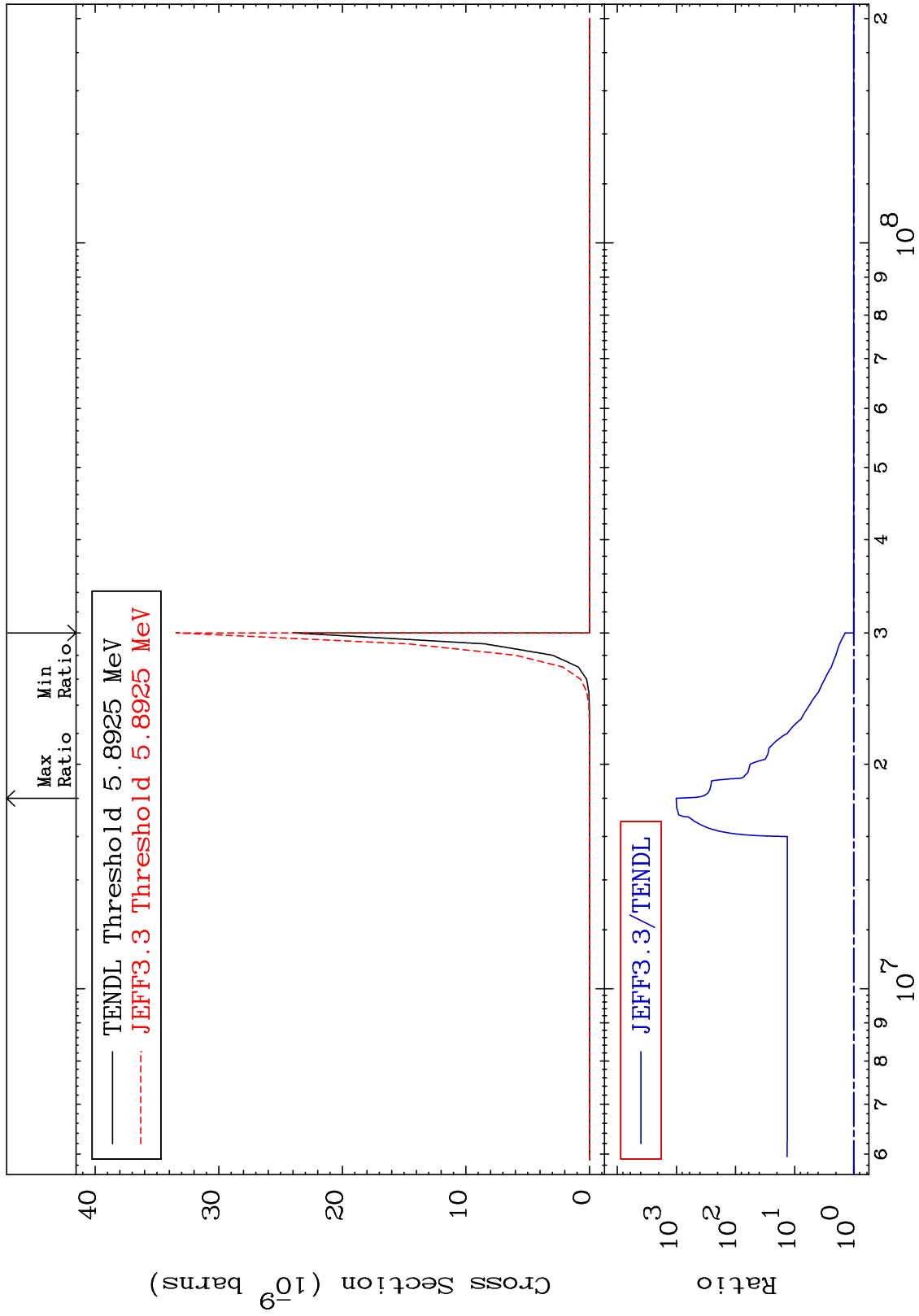
MAT 7640 (n,2n) p 76-0s-189
 Cross Section 0.000 To 156.8 %



MAT 7640

(n,n') p α
Cross Section

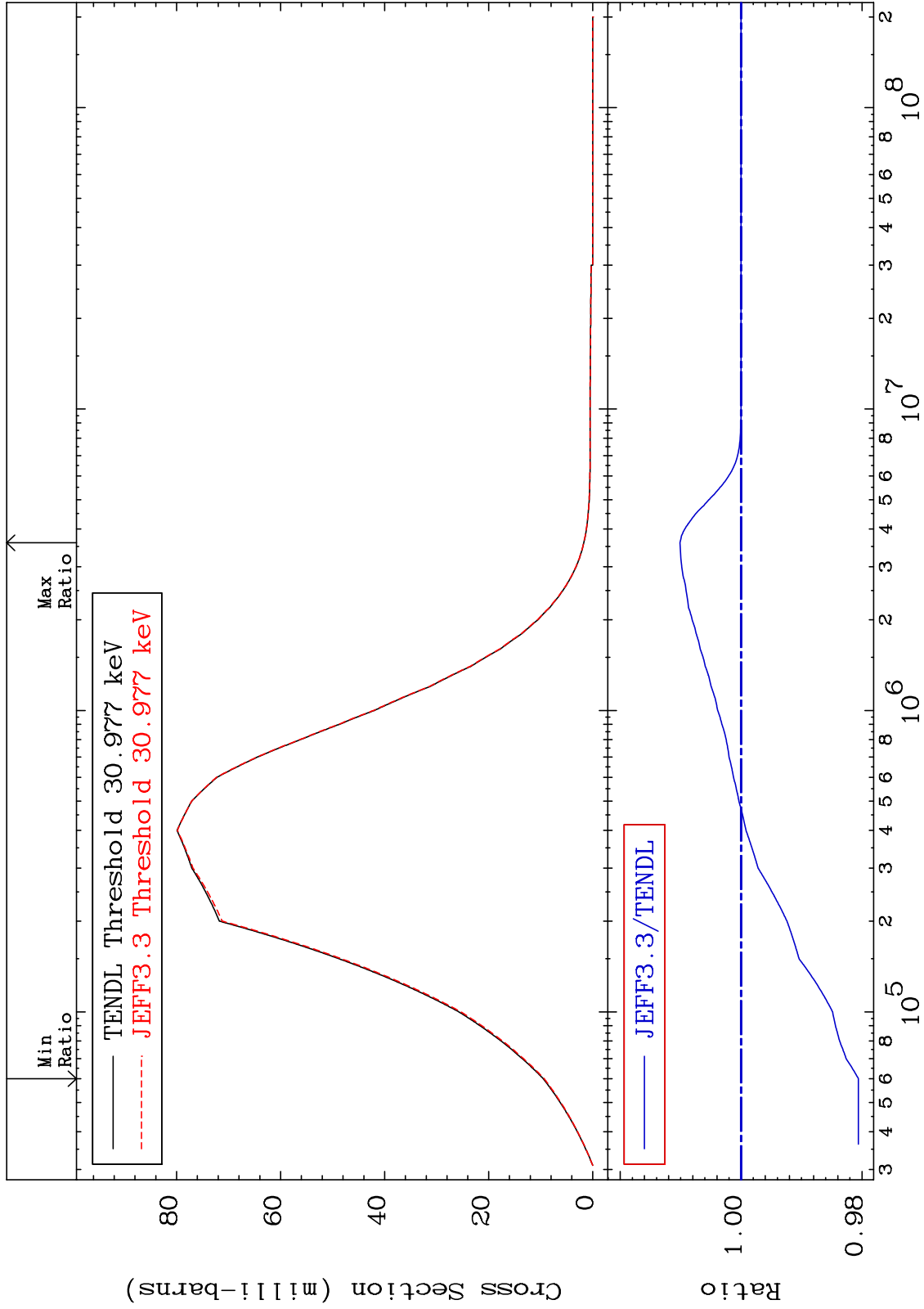
76-0s-189
0.000 To 9999. %



MAT 7640

MT= 51 (n,n') Level
Cross Section

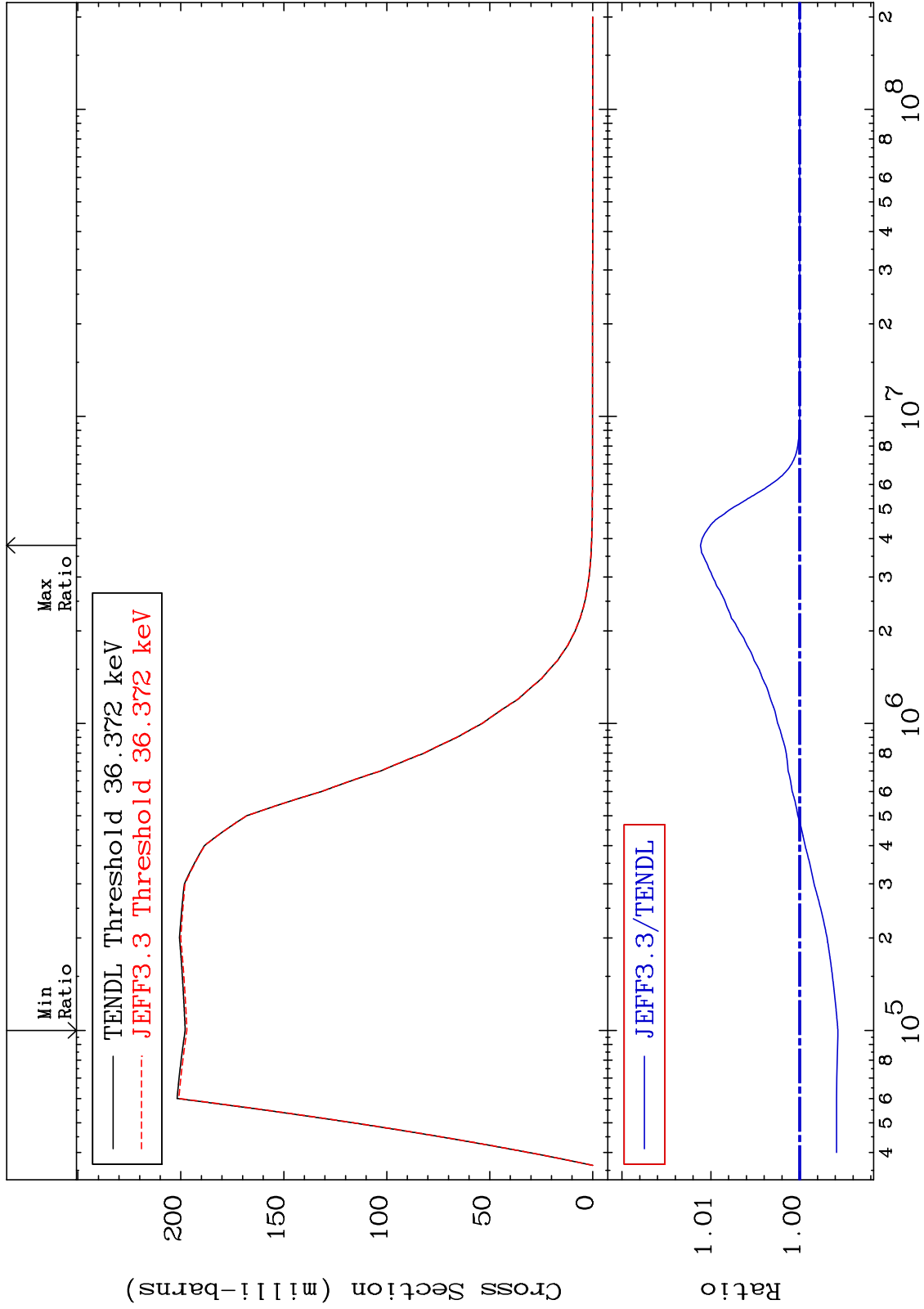
76-0s-189
-1.941 To 1.011 %



MAT 7640

MT= 52 (n, n') Level
Cross Section

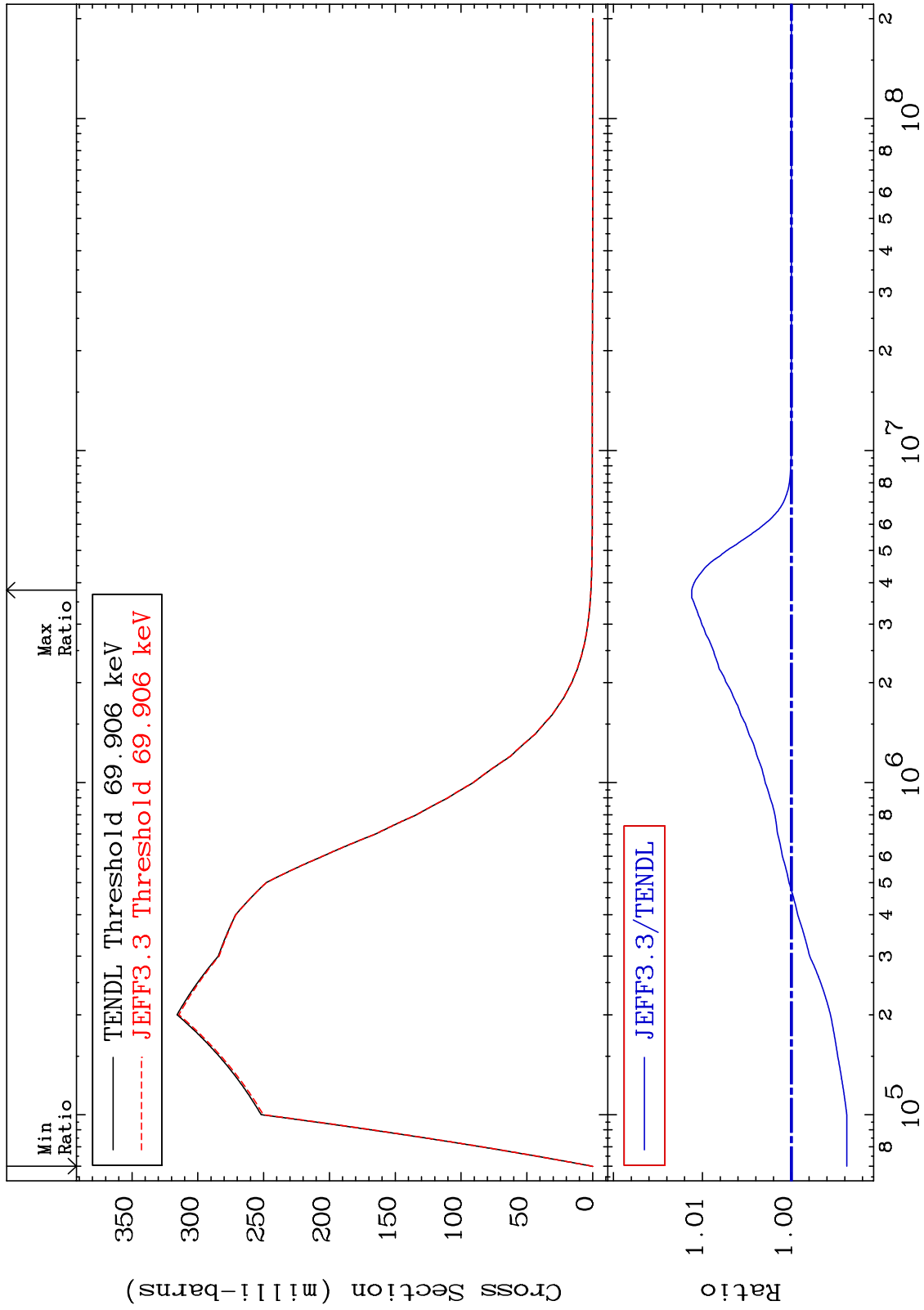
76-0s-189
-0.429 To 1.117 %



MAT 7640

MT= 53 (n,n') Level
Cross Section

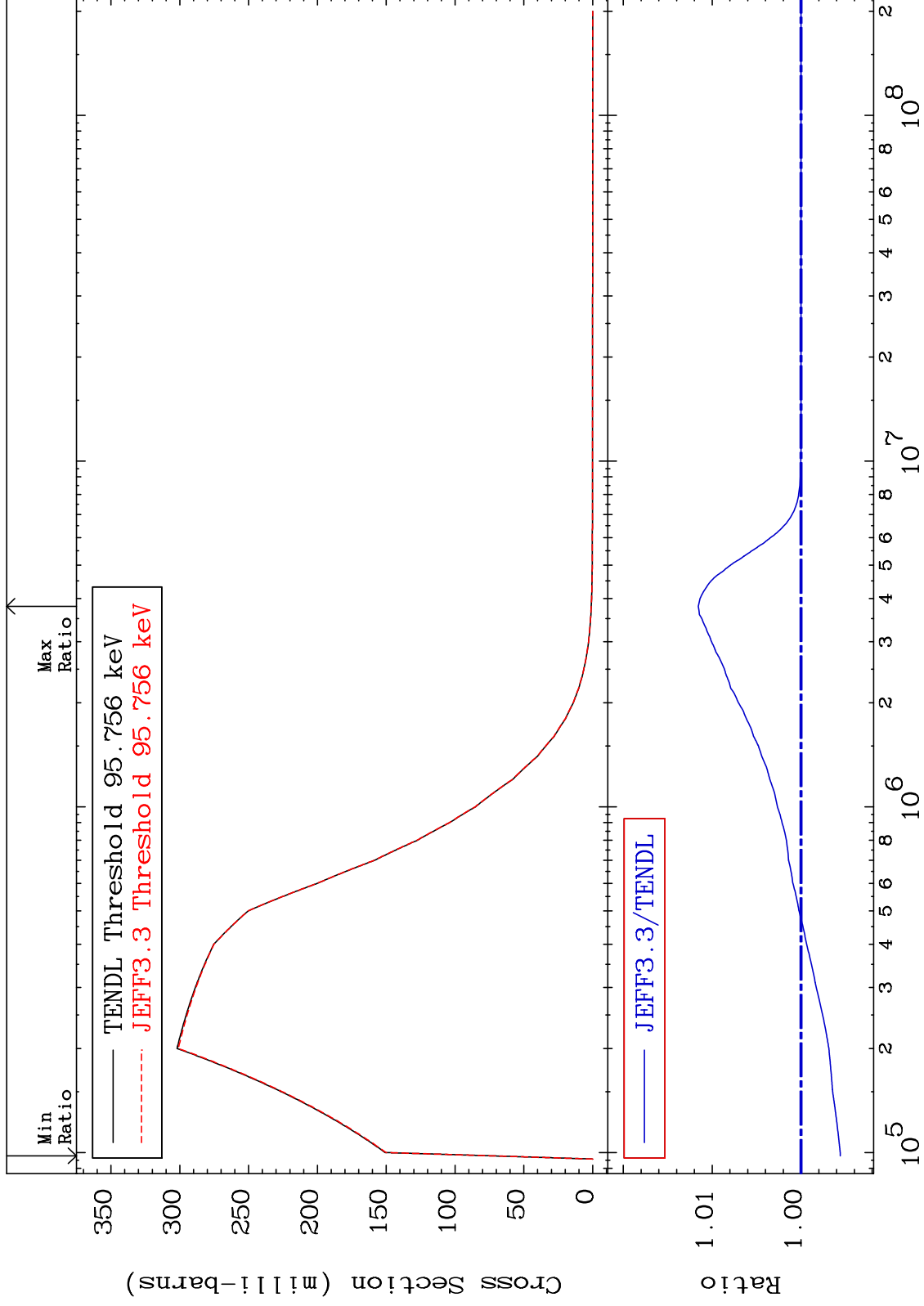
76-0s-189
-0.623 To 1.121 %



MAT 7640

MT= 54 (n,n') Level
Cross Section

76-0s-189
-0.440 To 1.156 %

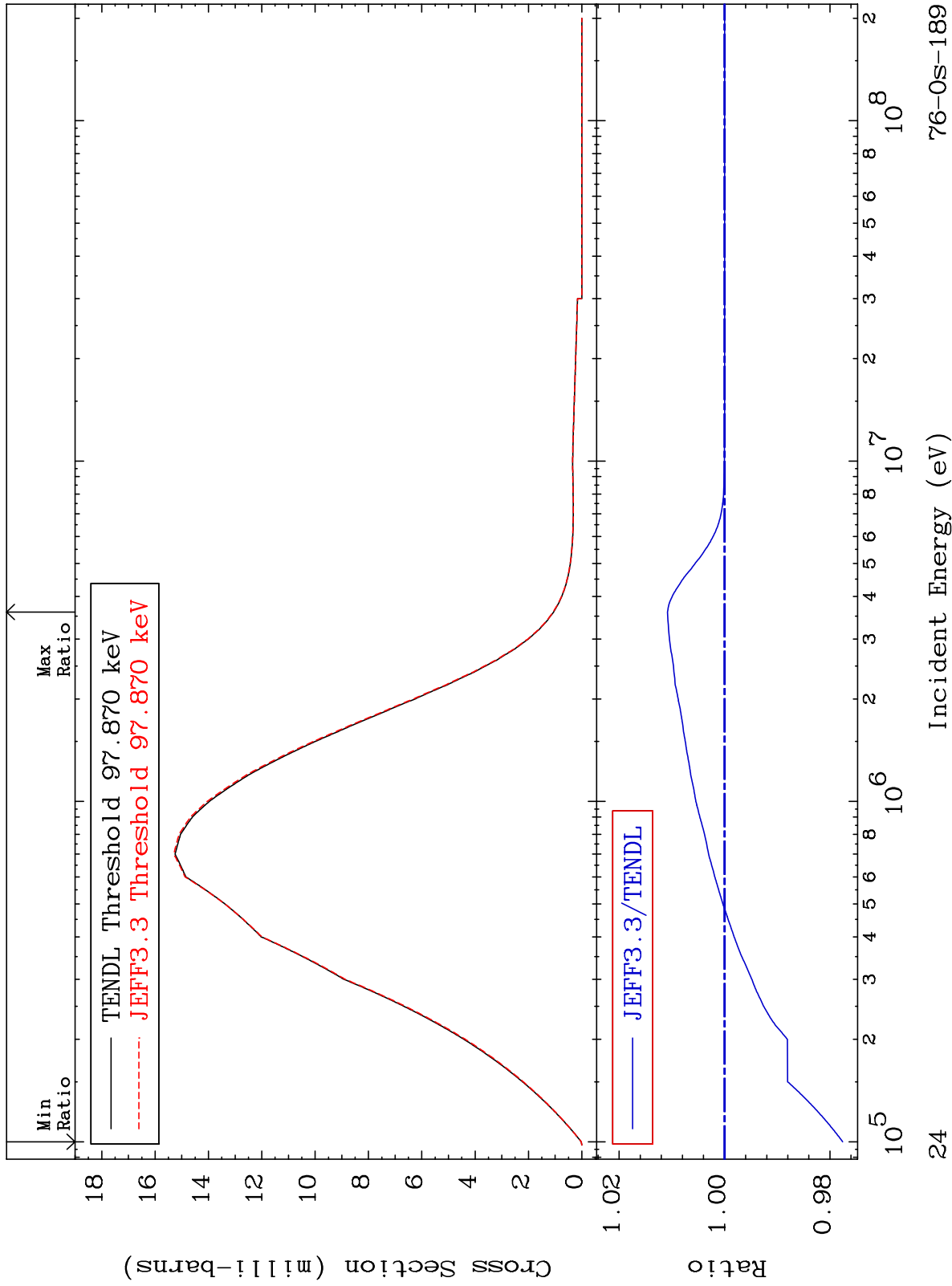


23

Incident Energy (eV)

76-0s-189

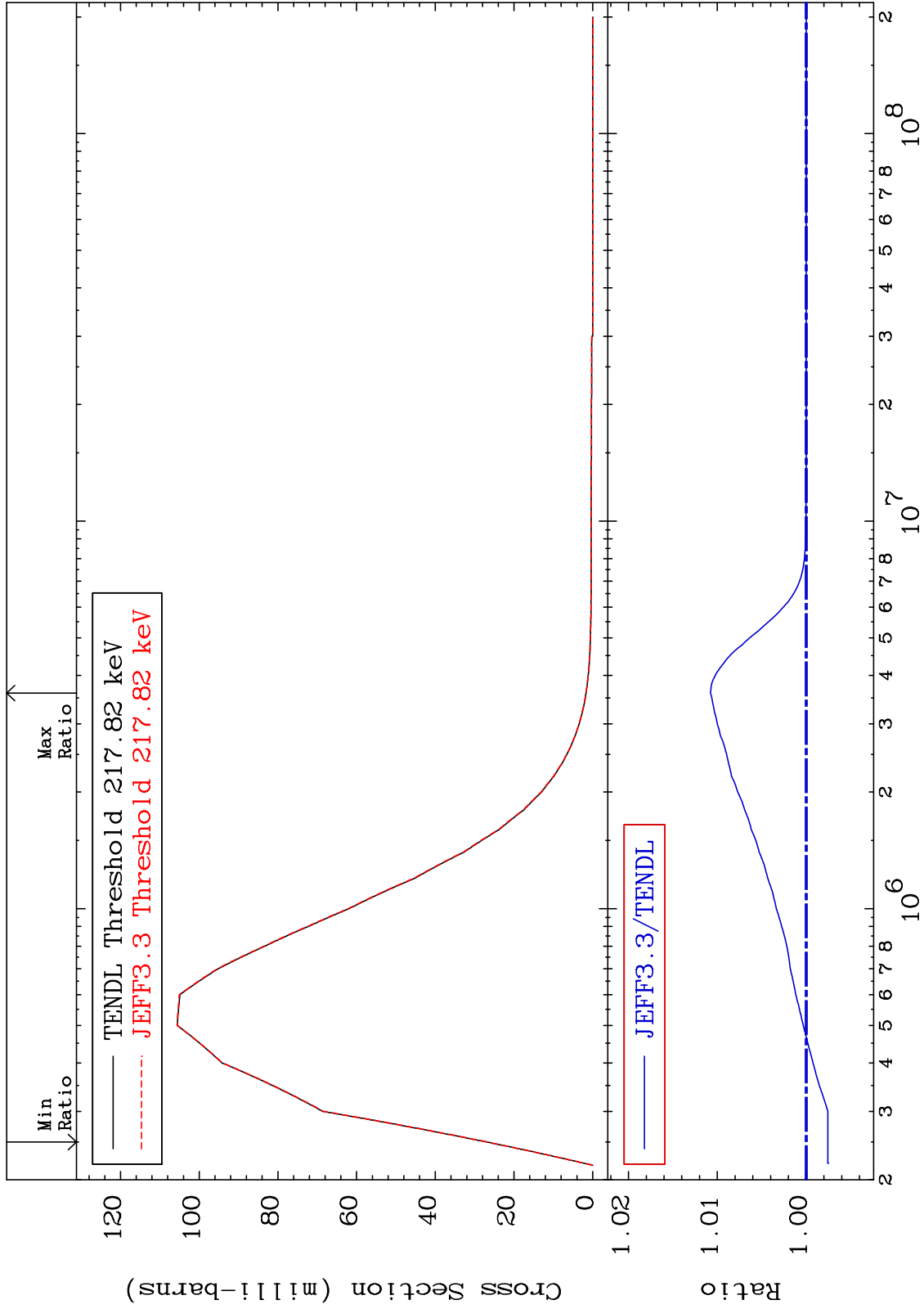
MAT 7640 MT= 55 (n,n') Level Cross Section 76-0s-189
 -2.241 To 1.082 %



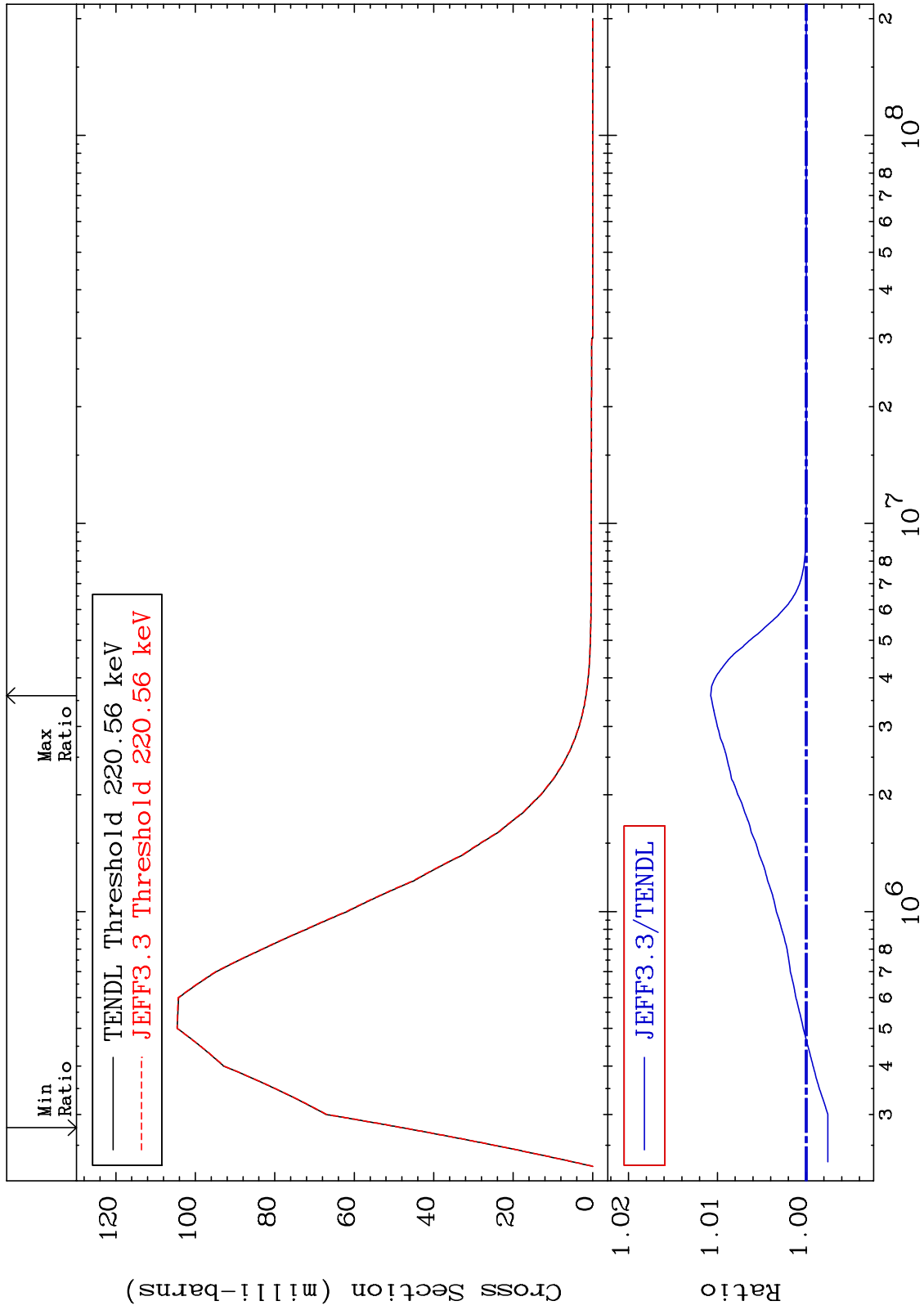
MAT 7640

MT= 56 (n,n') Level
Cross Section

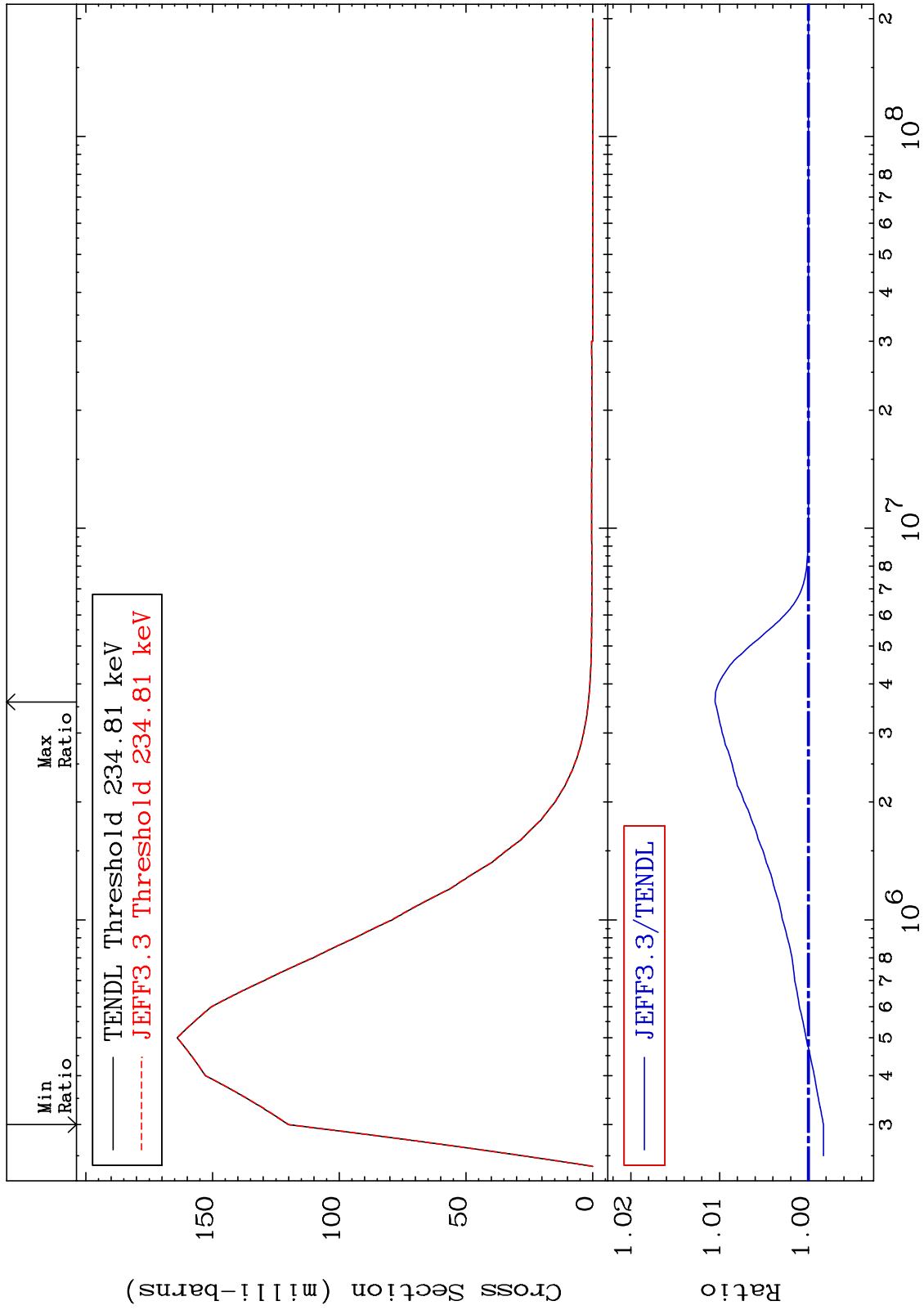
76-0s-189
-0.244 To 1.076 %



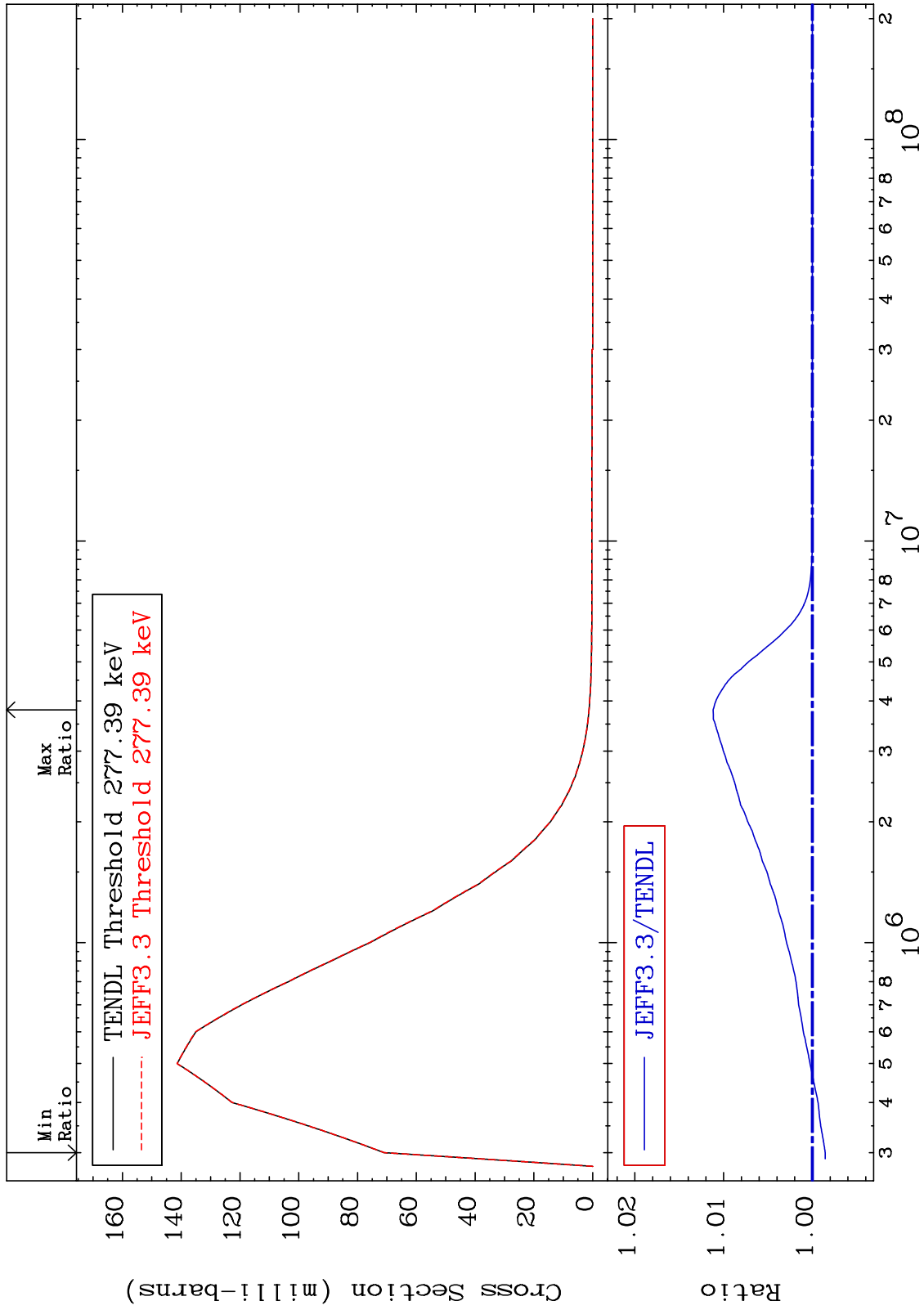
MAT 7640 MT= 57 (n,n') Level Cross Section 76-0s-189
 -0.243 To 1.076 %



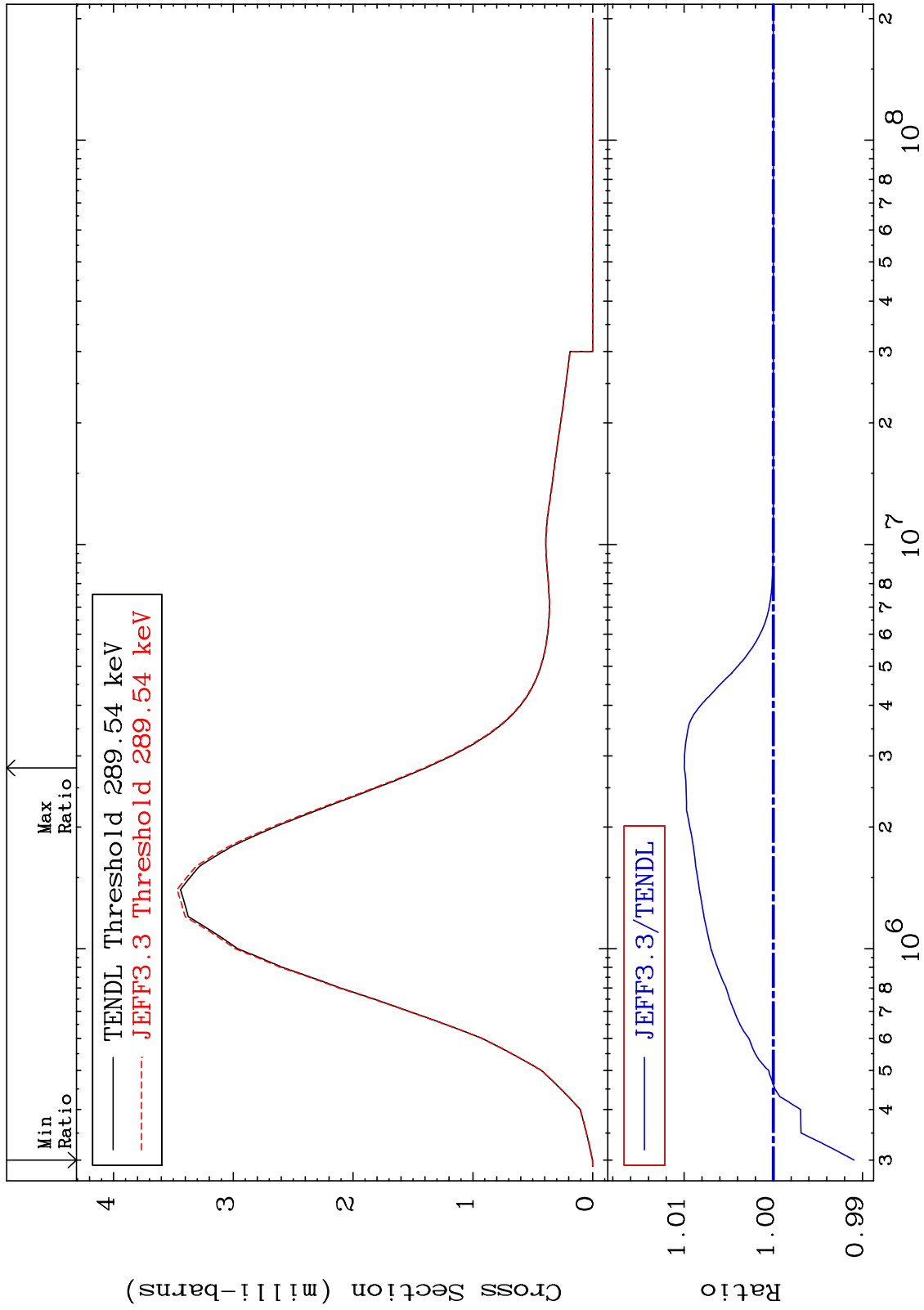
MAT 7640 MT= 58 (n,n') Level Cross Section 76-0s-189
 -0.169 To 1.052 %



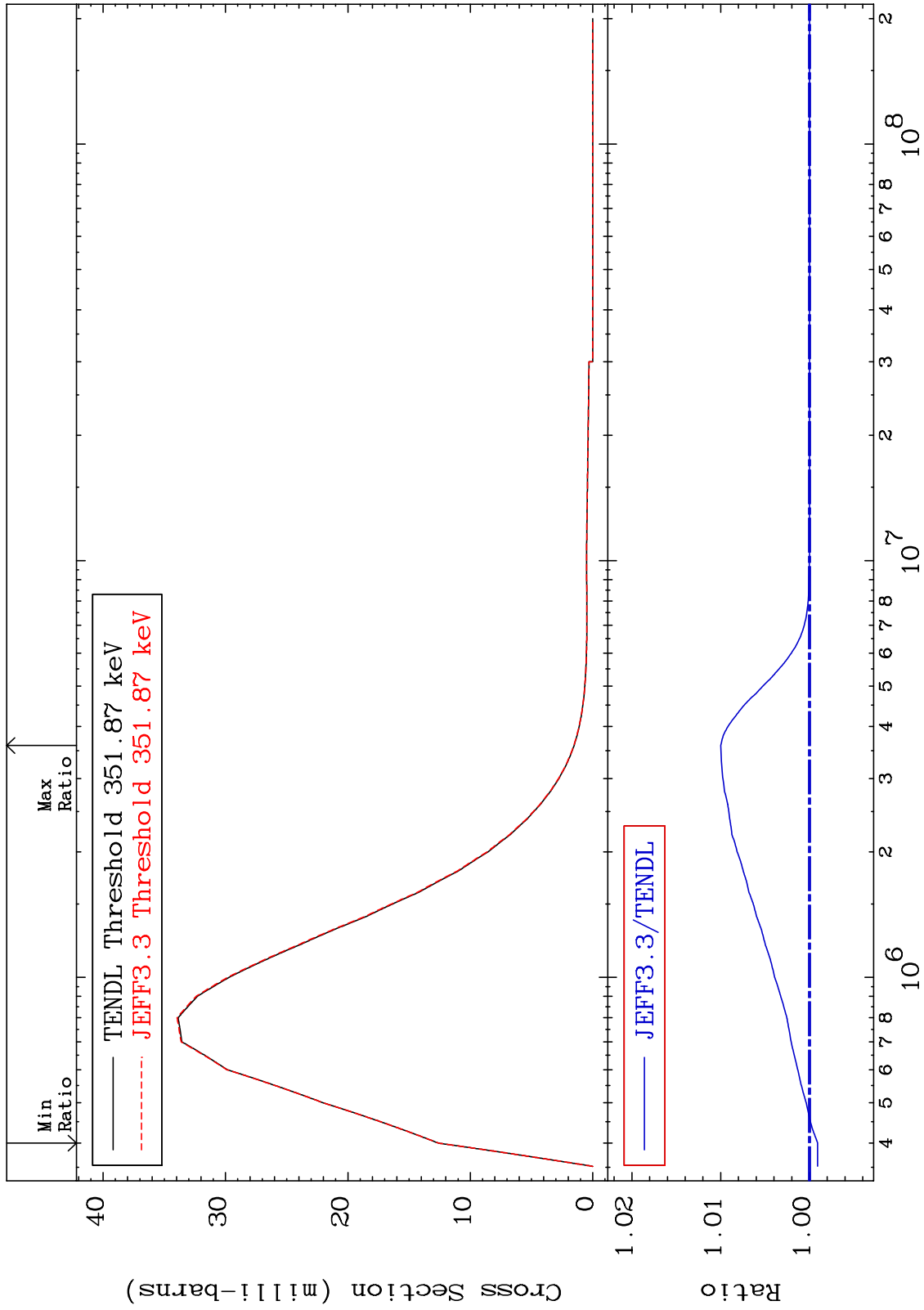
MAT 7640 MT= 59 (n,n') Level Cross Section 76-0s-189
 -0.144 To 1.118 %



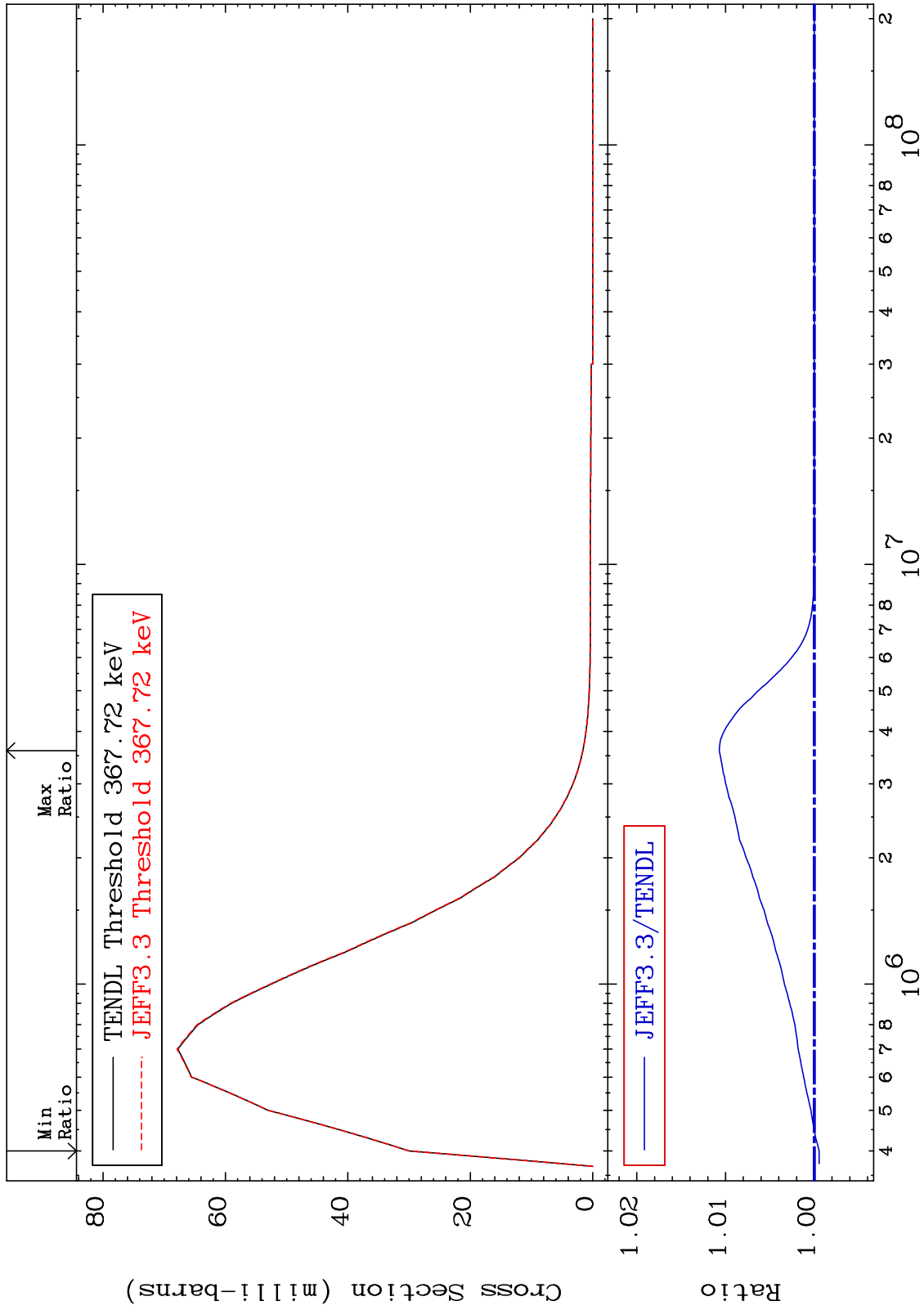
MAT 7640 MT= 60 (n,n') Level Cross Section 76-0s-189
 -0.906 To 0.997 %



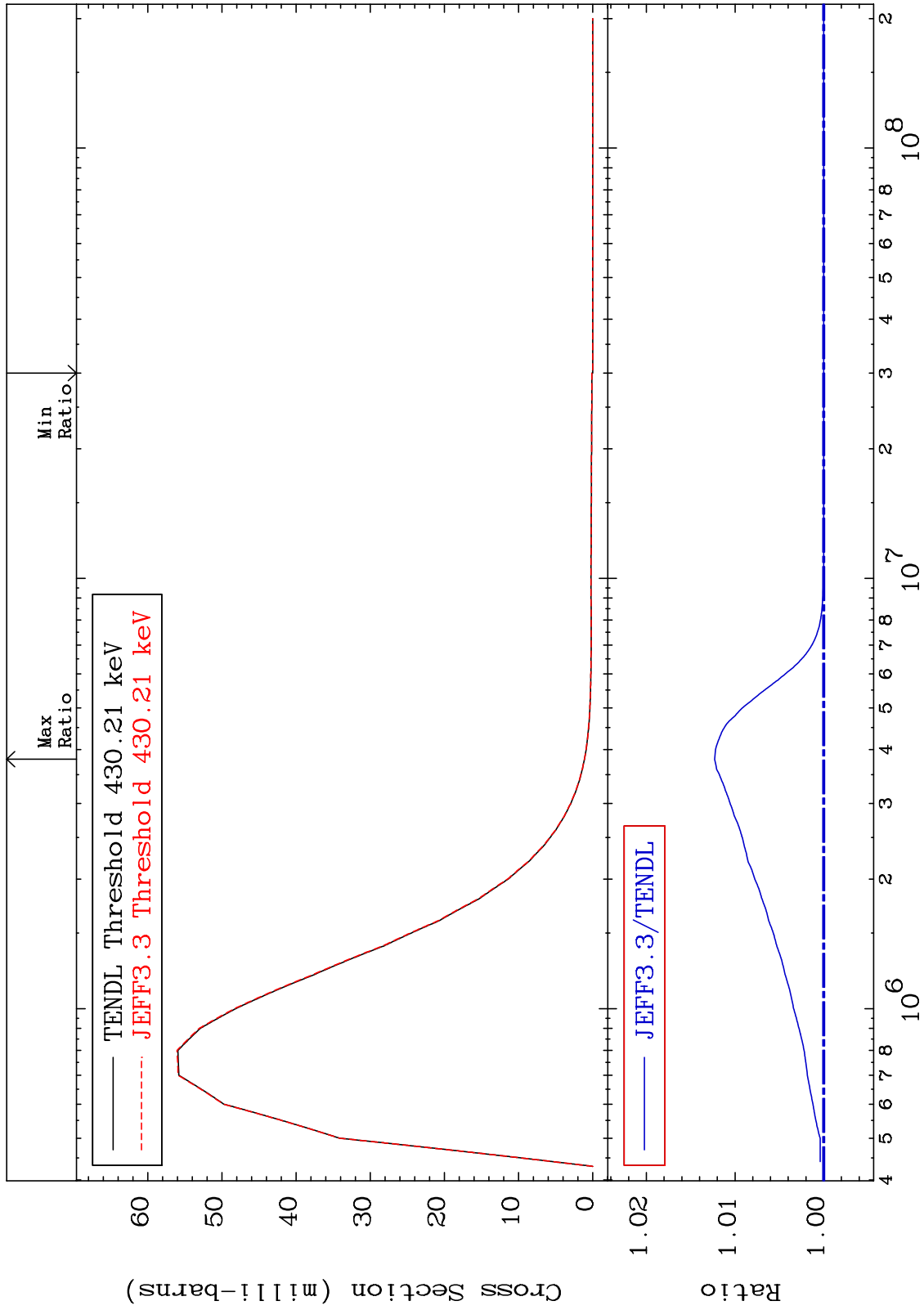
MAT 7640 MT= 61 (n,n') Level Cross Section 76-0s-189
 -0.092 To 0.999 %

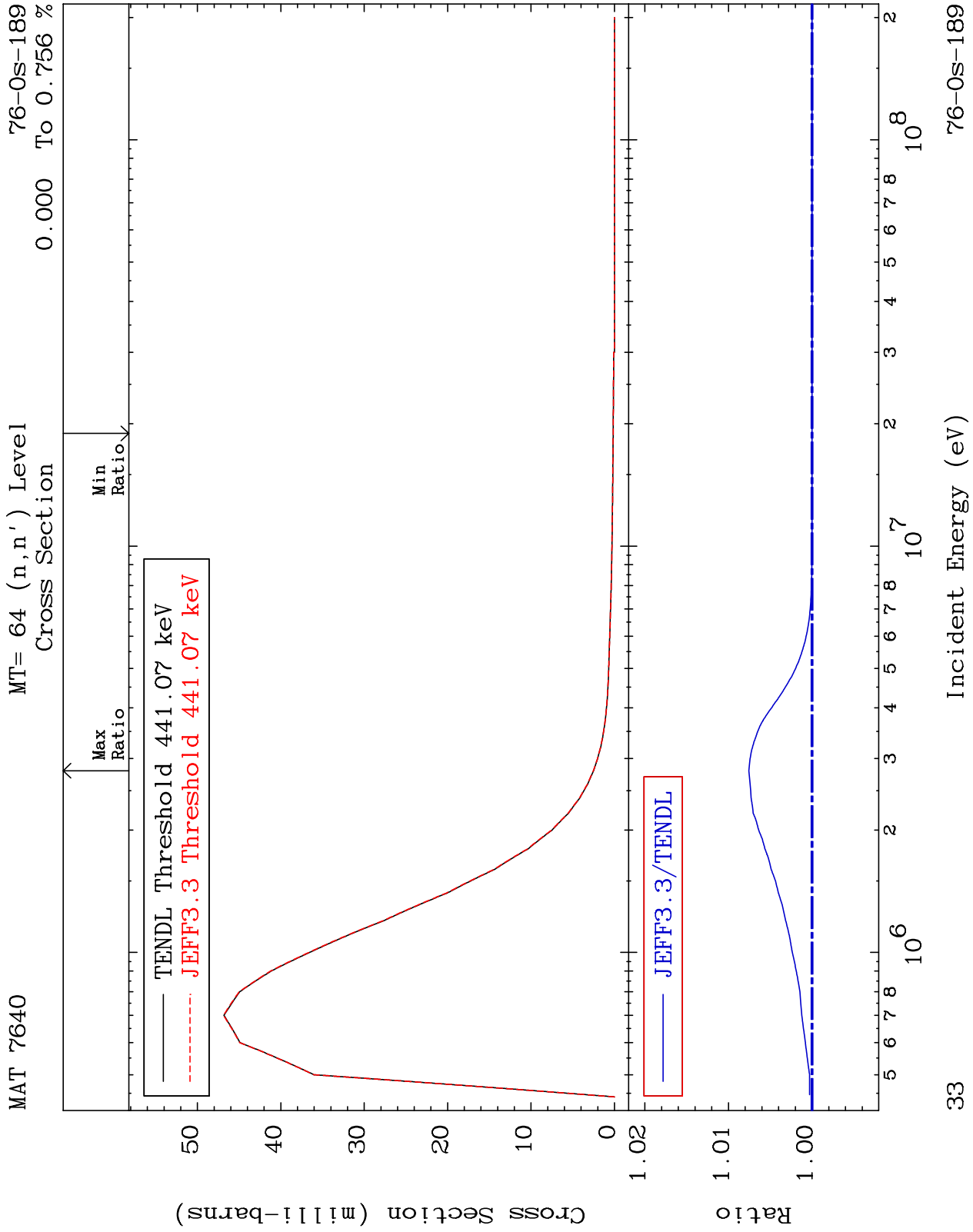


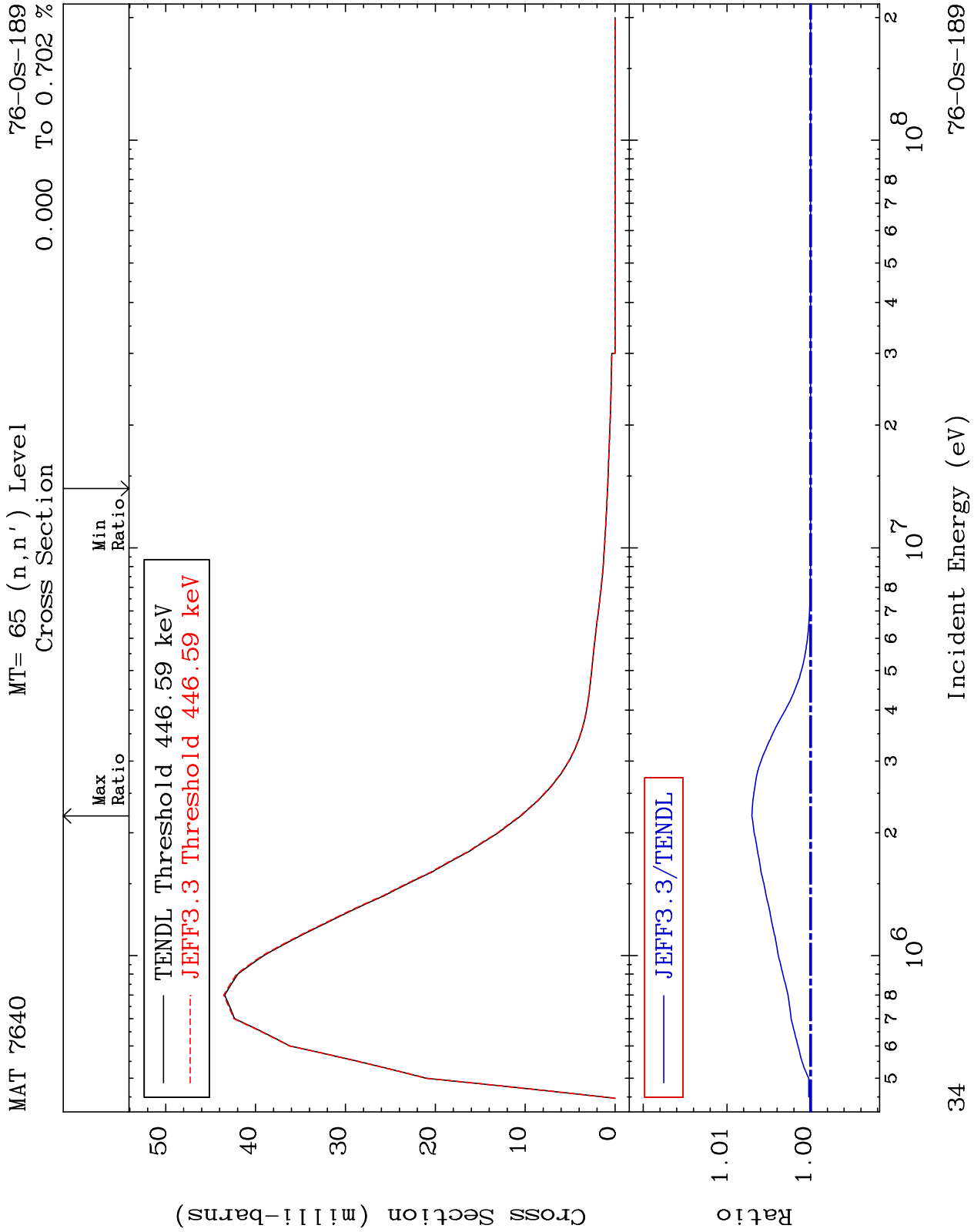
MAT 7640 MT= 62 (n,n') Level Cross Section 76-0s-189
 -0.055 To 1.071 %



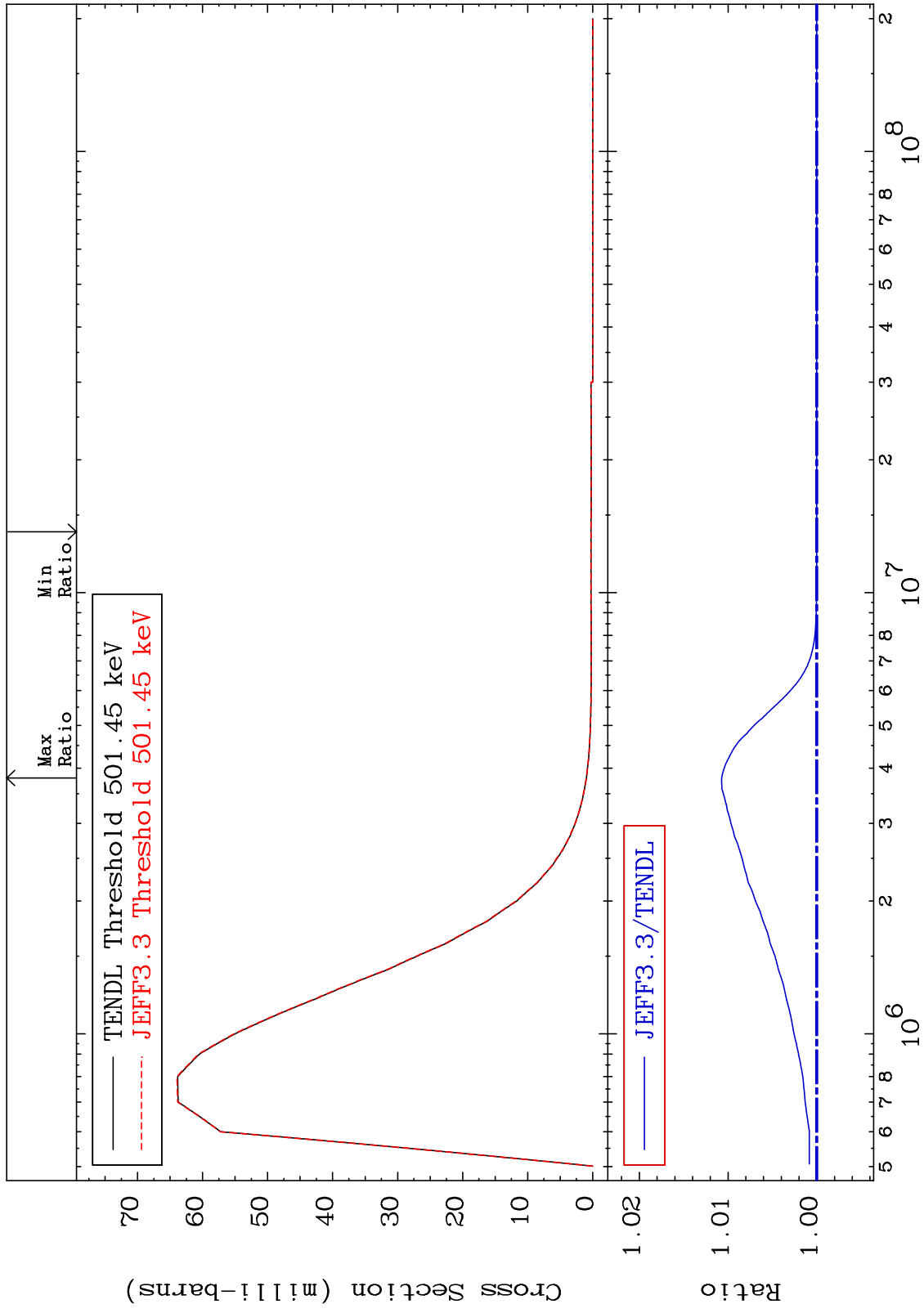
MAT 7640 MT= 63 (n,n') Level Cross Section 76-0s-189 To 1.230 %

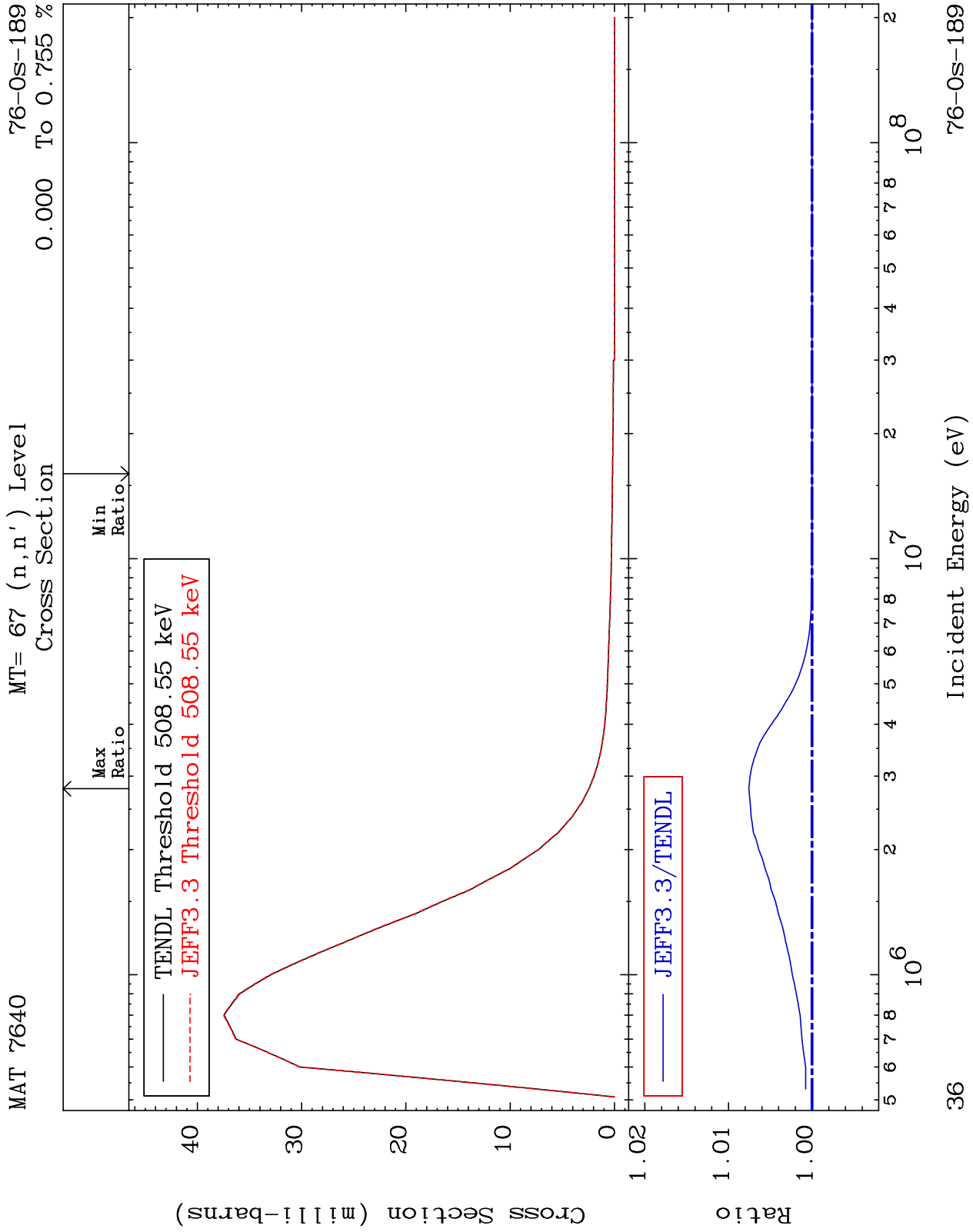


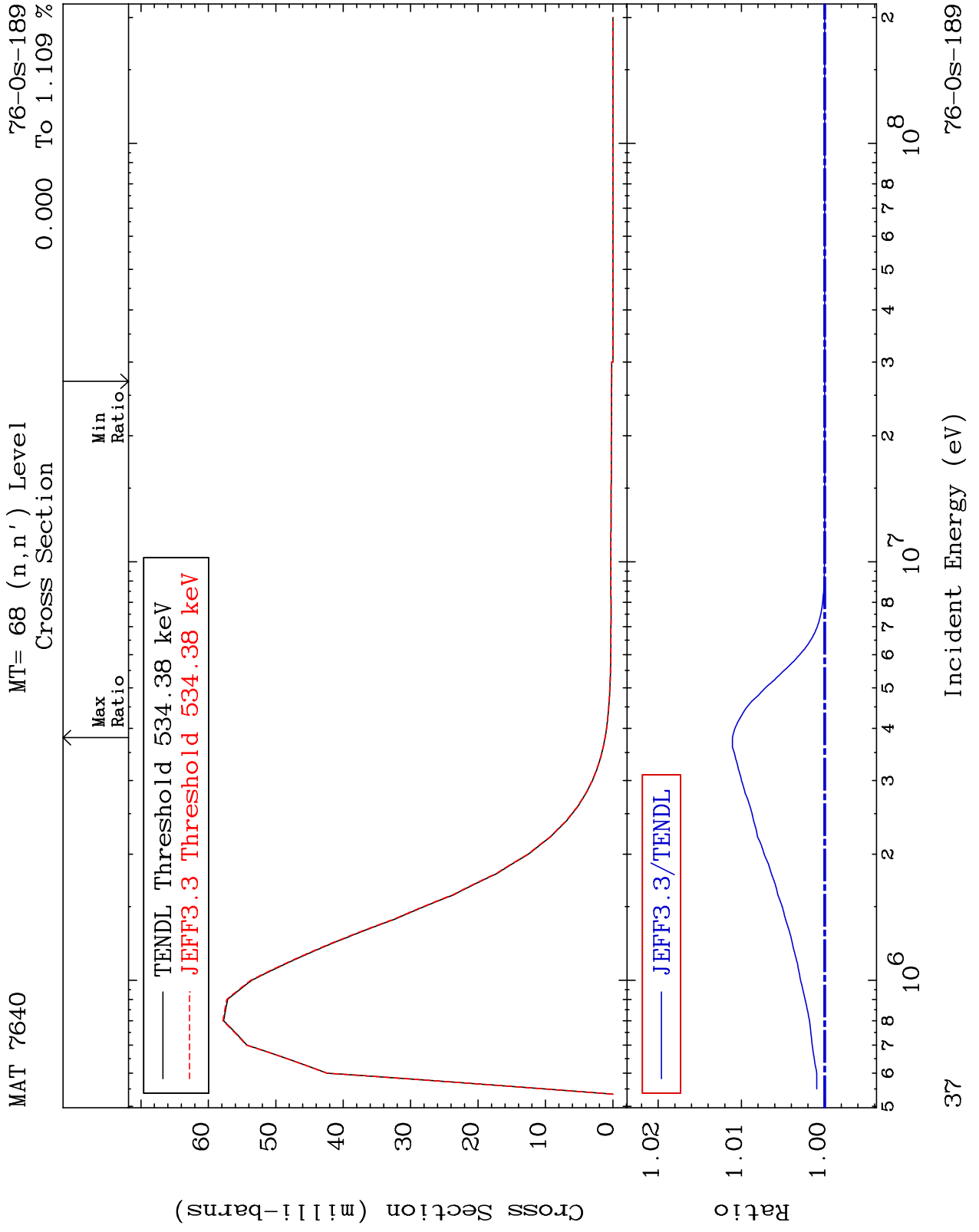




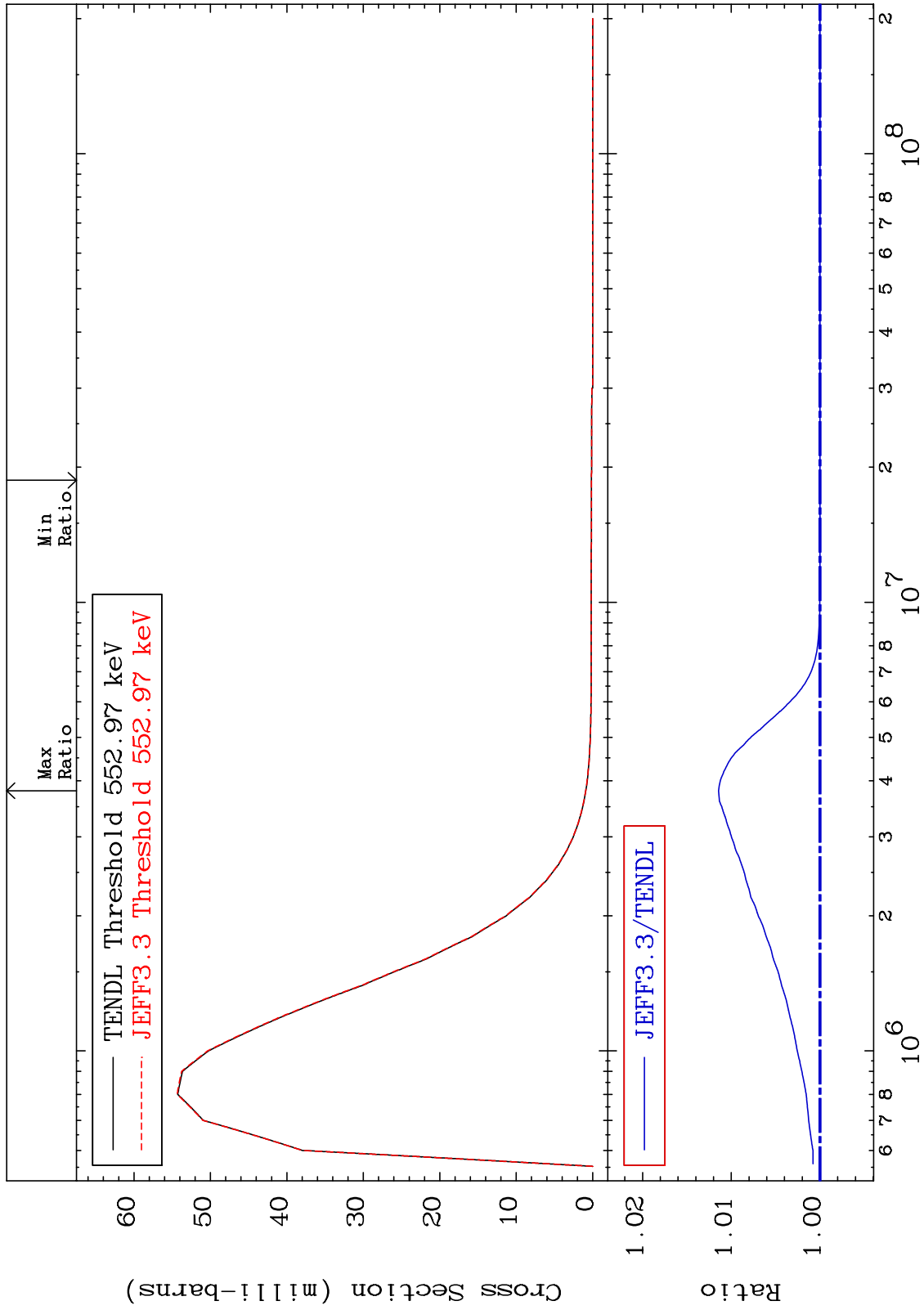
MAT 7640 MT= 66 (n,n') Level Cross Section 76-0s-189
 0.000 To 1.072 %



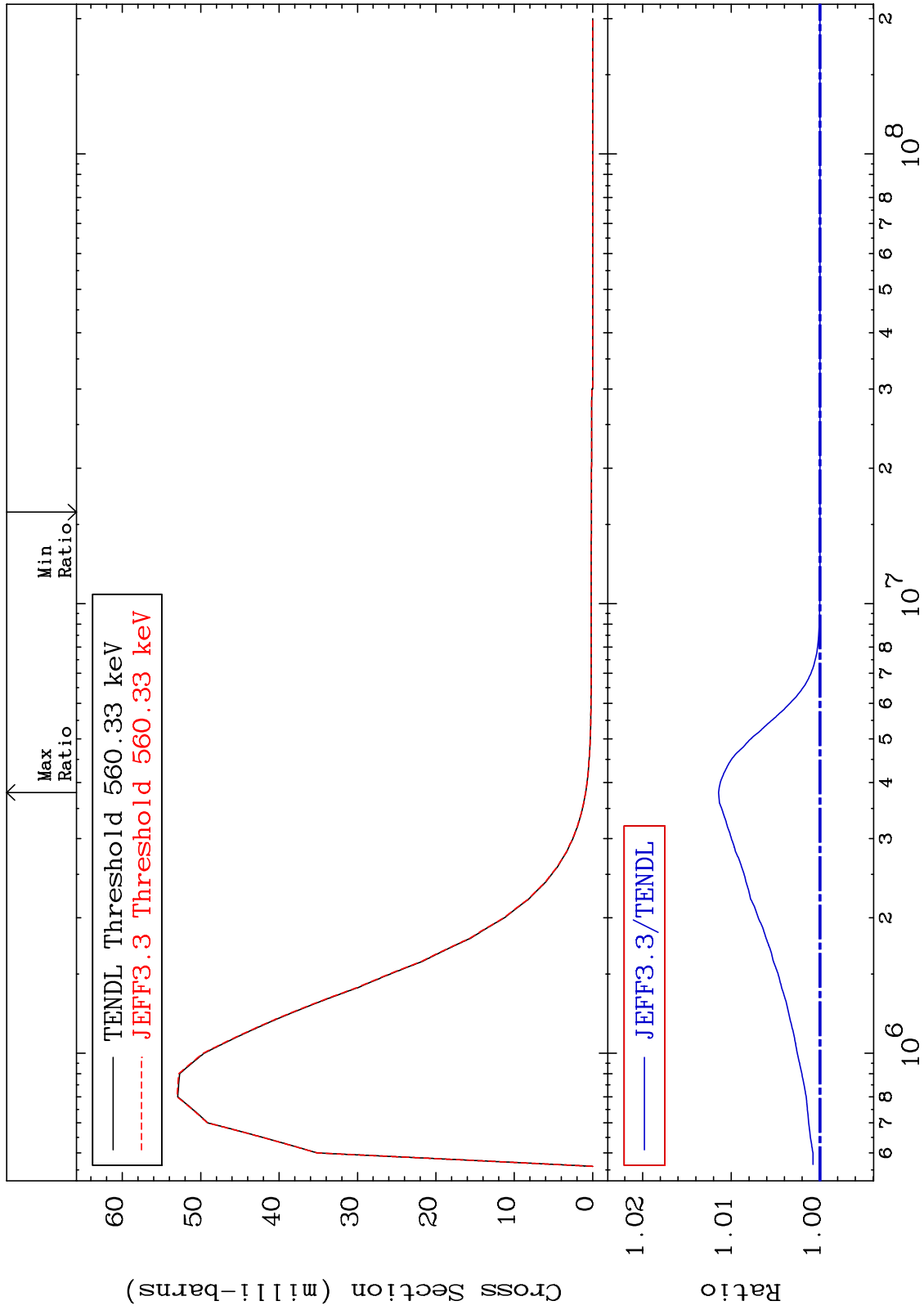




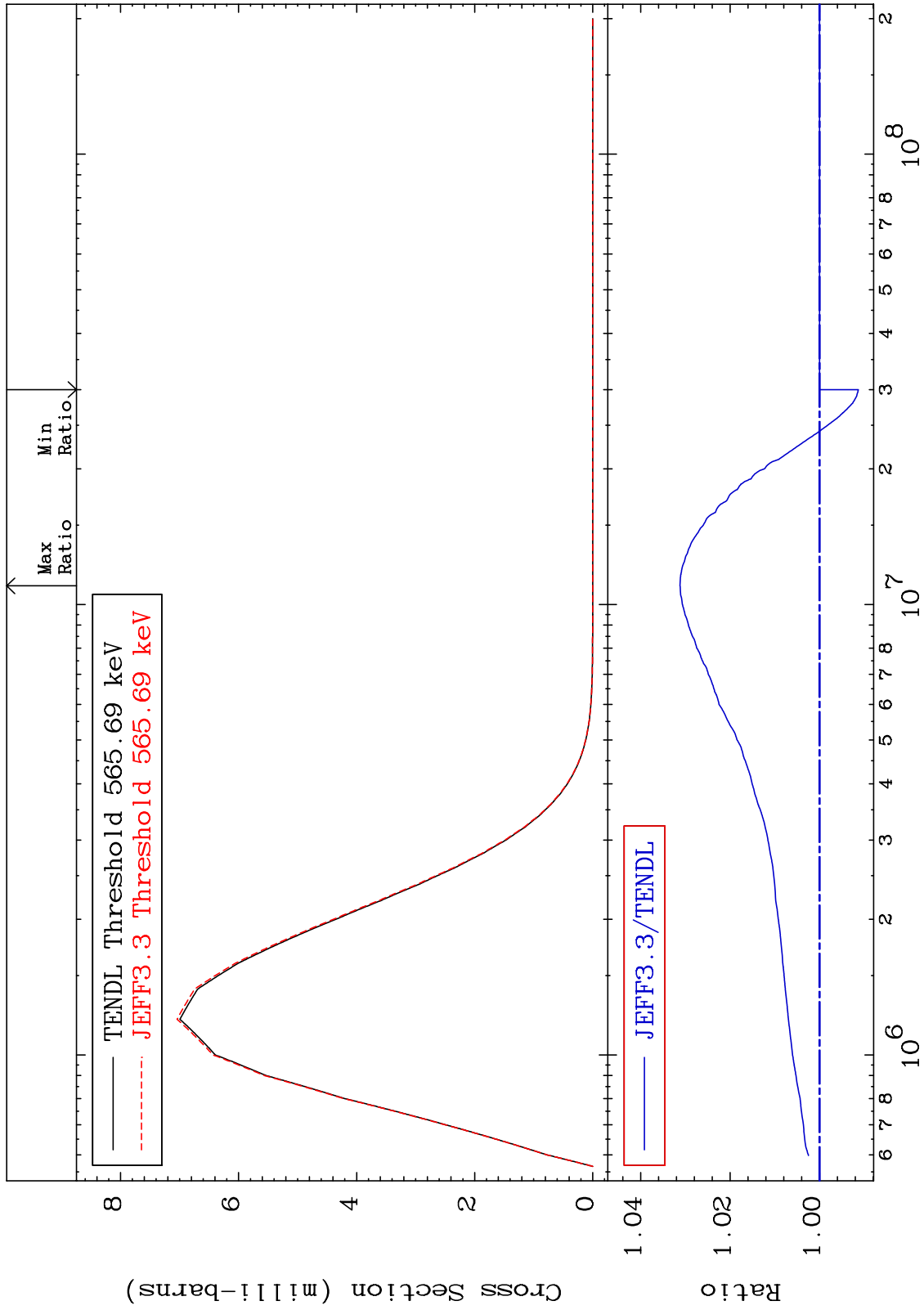
MAT 7640 MT= 69 (n,n') Level Cross Section 76-0s-189 To 1.145 %
 0.000



MAT 7640 MT= 70 (n, n') Level Cross Section 76-0s-189 To 1.144 %
 0.000

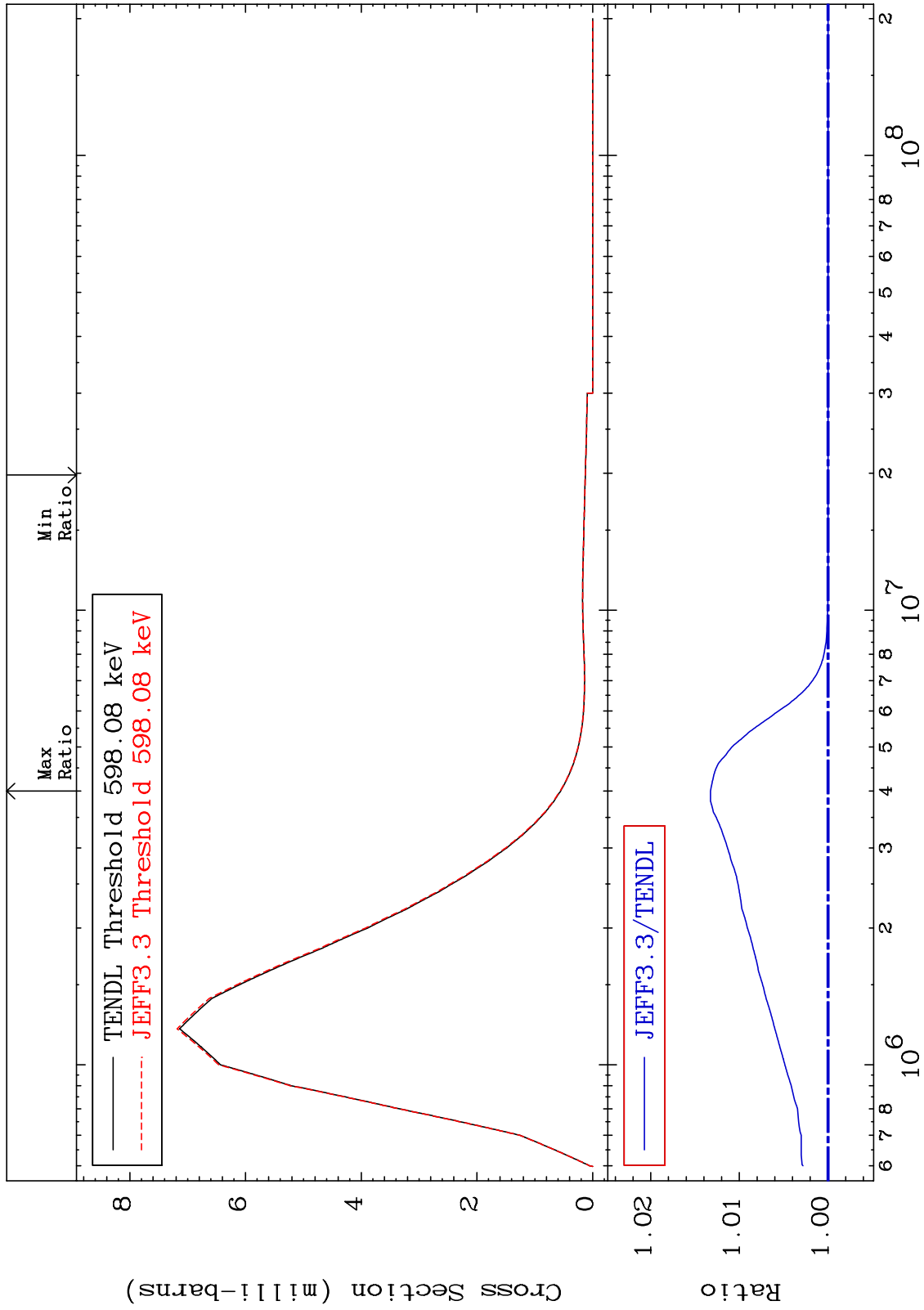


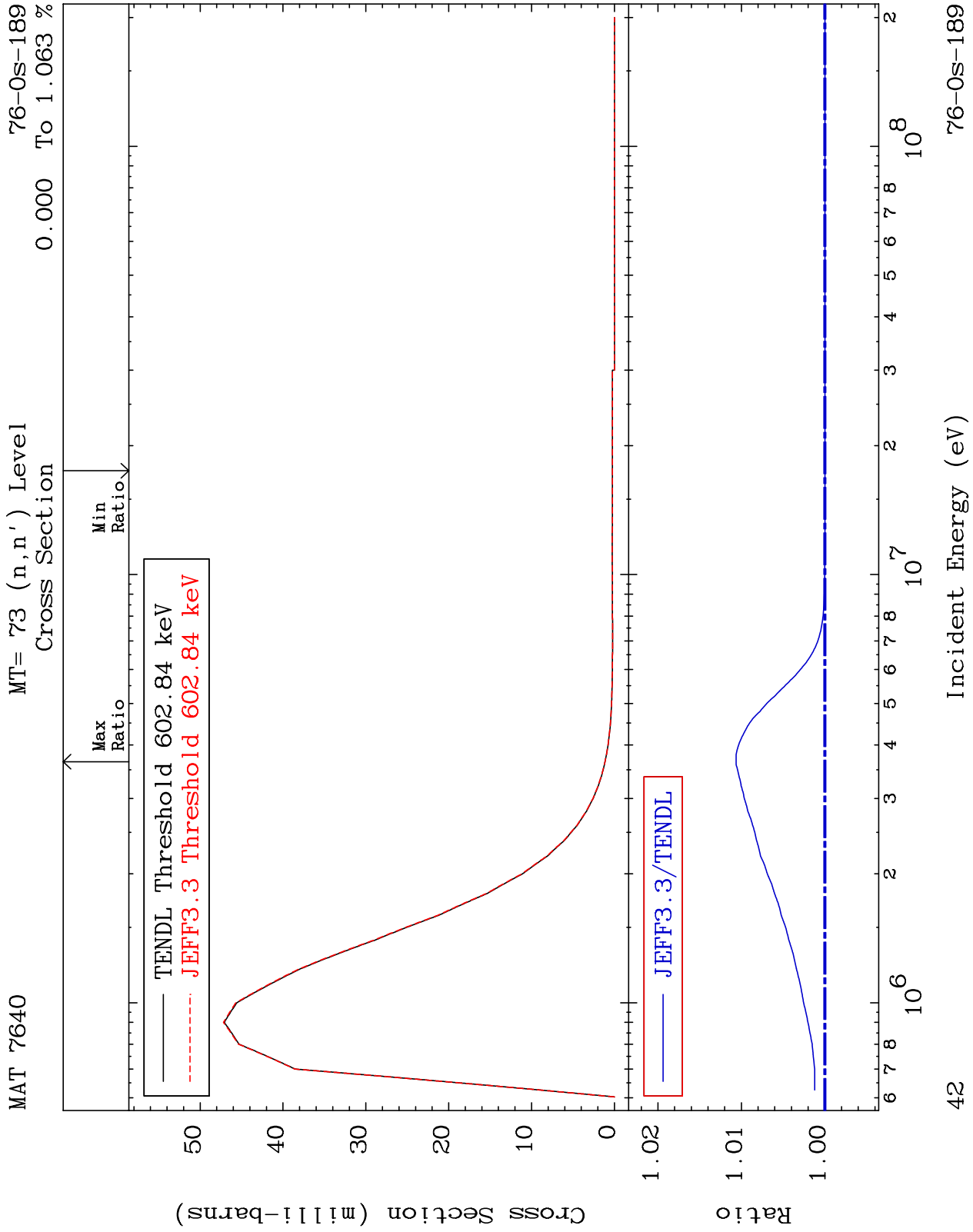
MAT 7640 MT= 71 (n, n') Level Cross Section 76-0s-189
-0.868 To 3.119 %

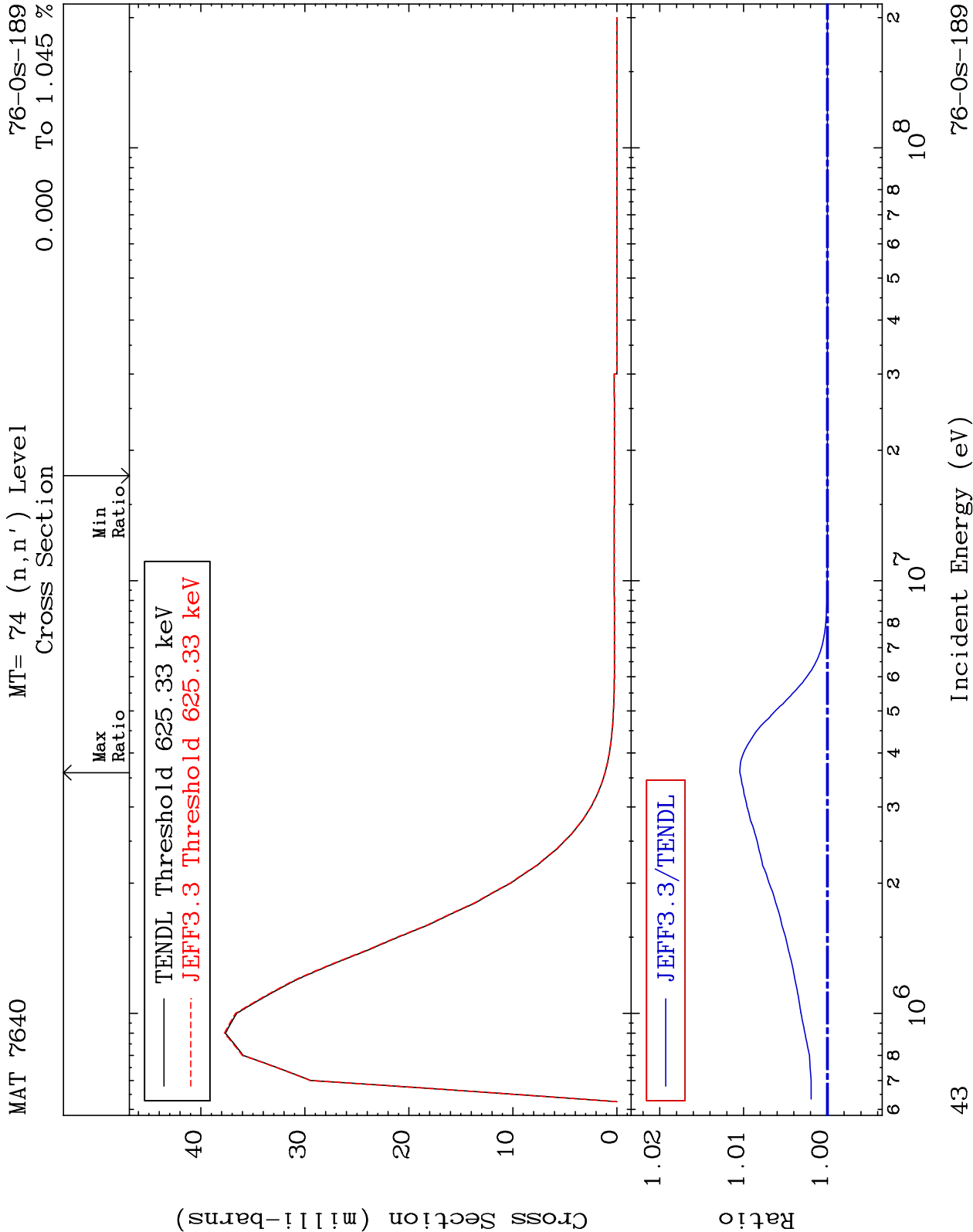


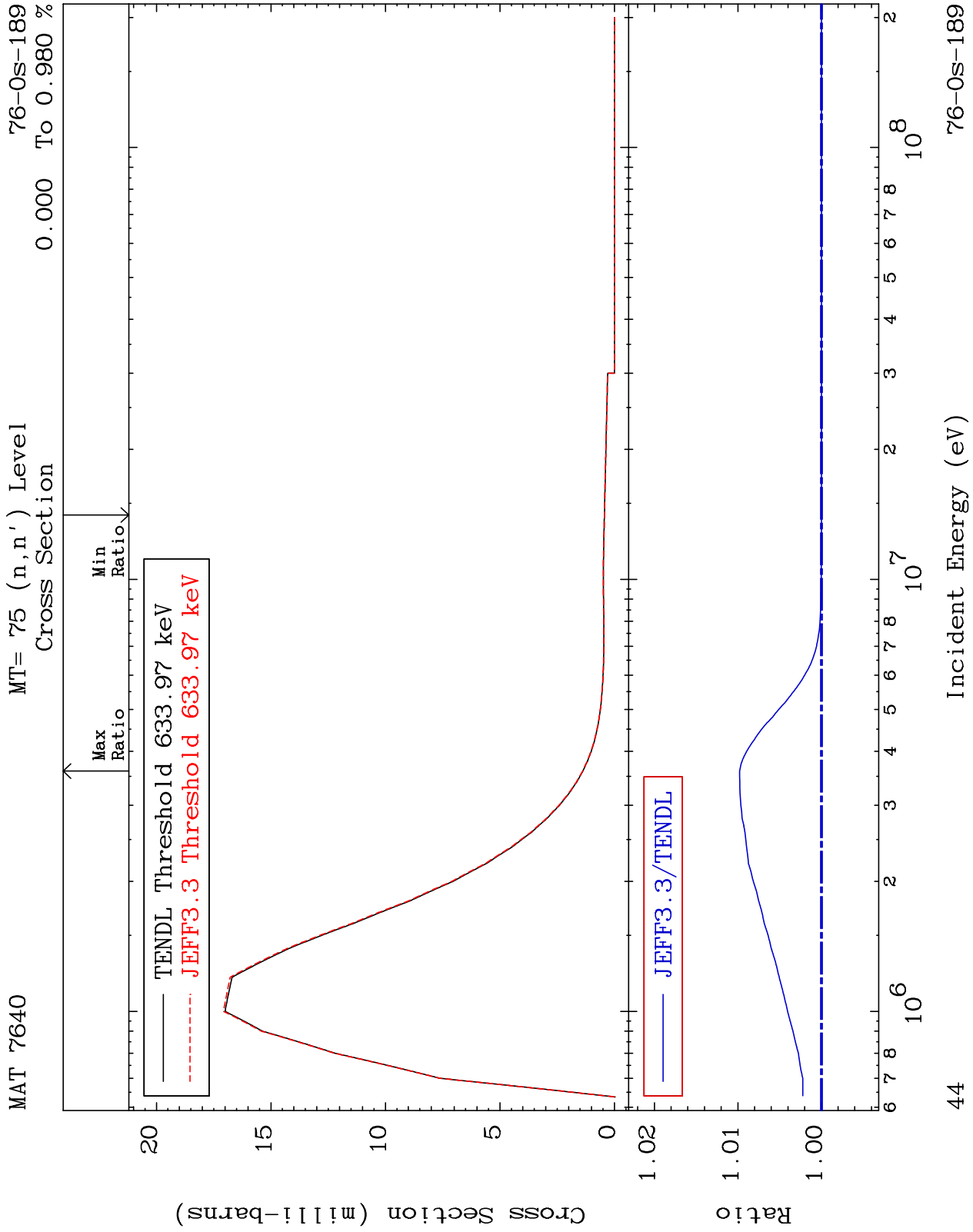
40 Incident Energy (eV) 76-0s-189

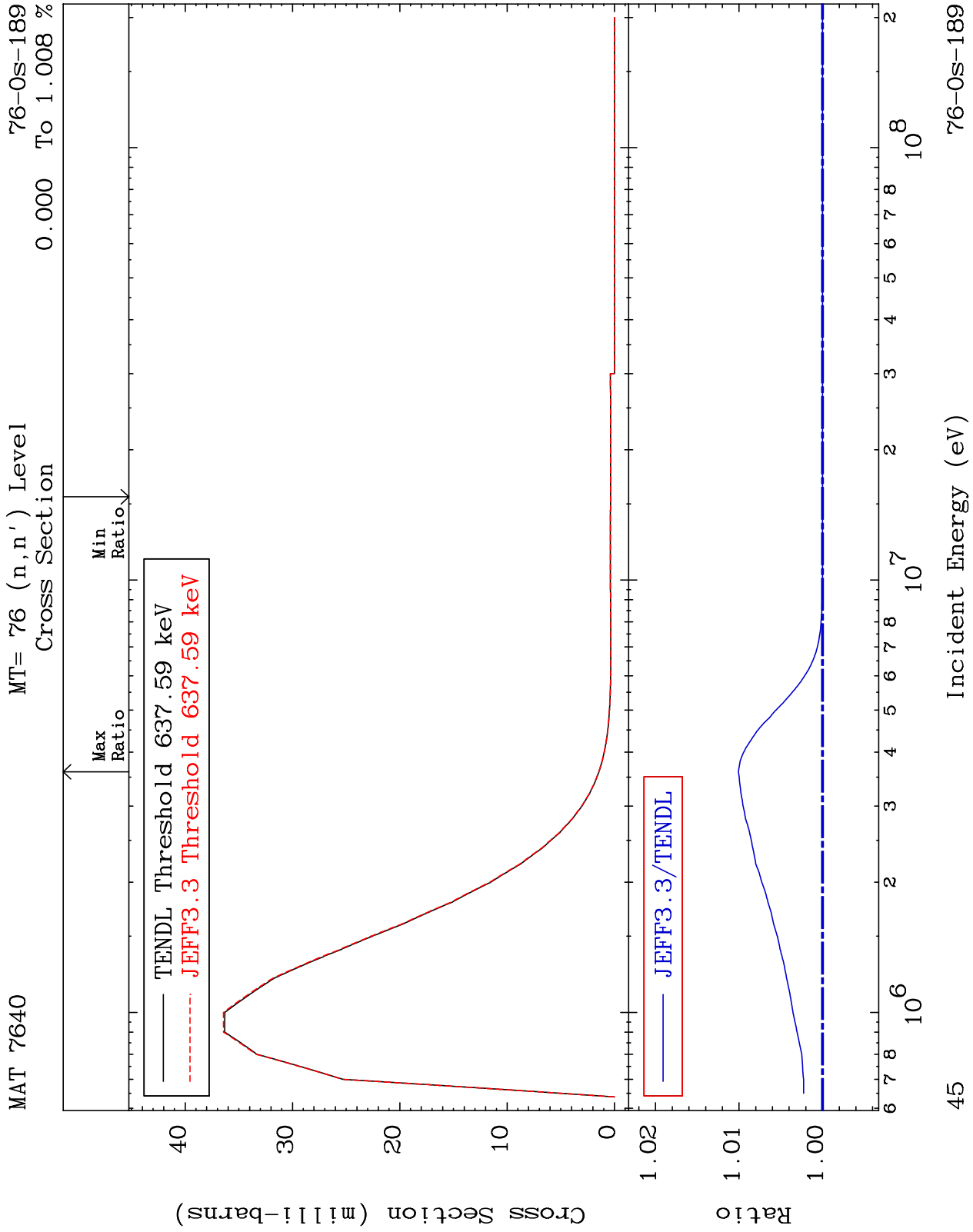
MAT 7640 MT= 72 (n, n') Level Cross Section 76-0s-189 To 1.327 %
 0.000

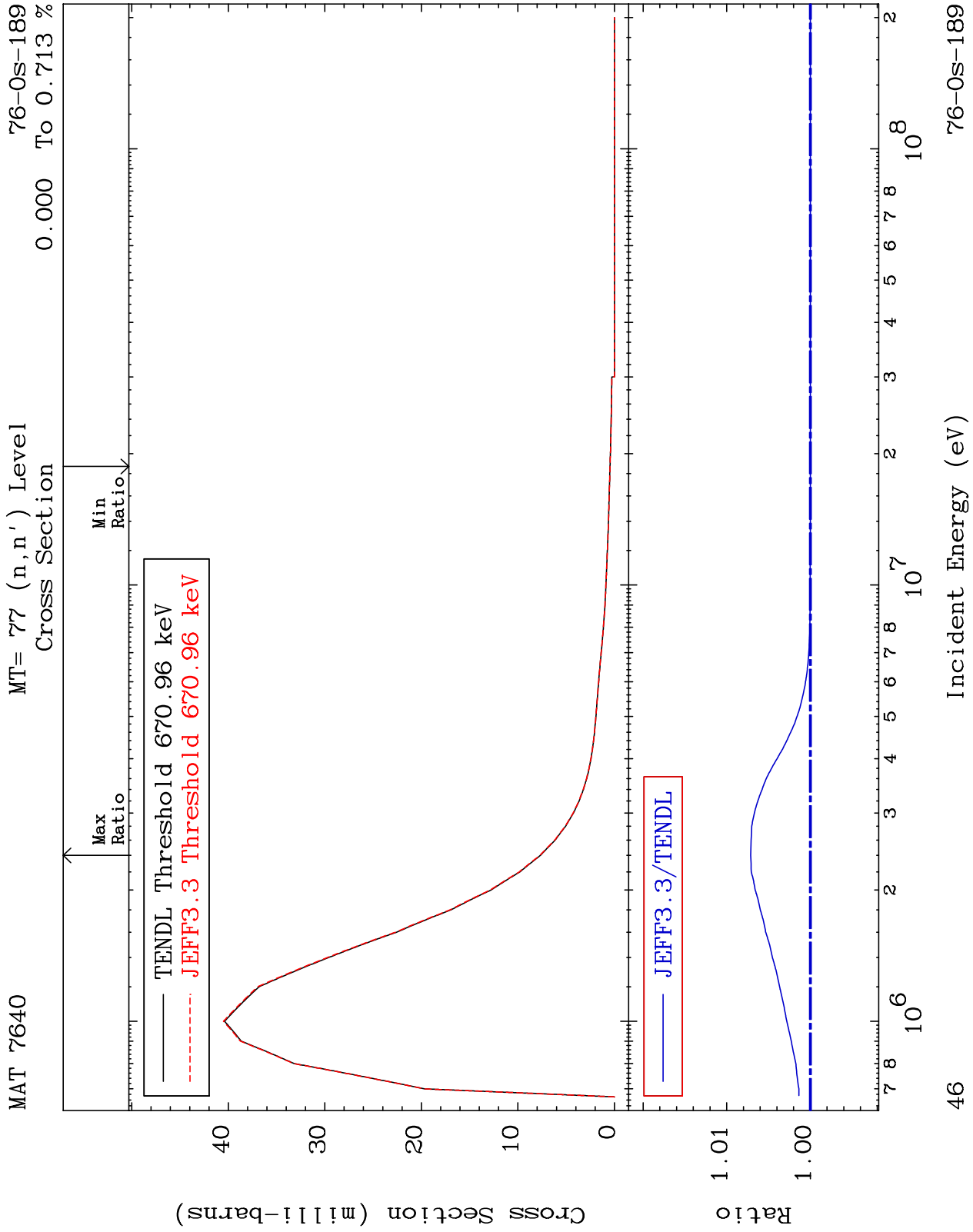


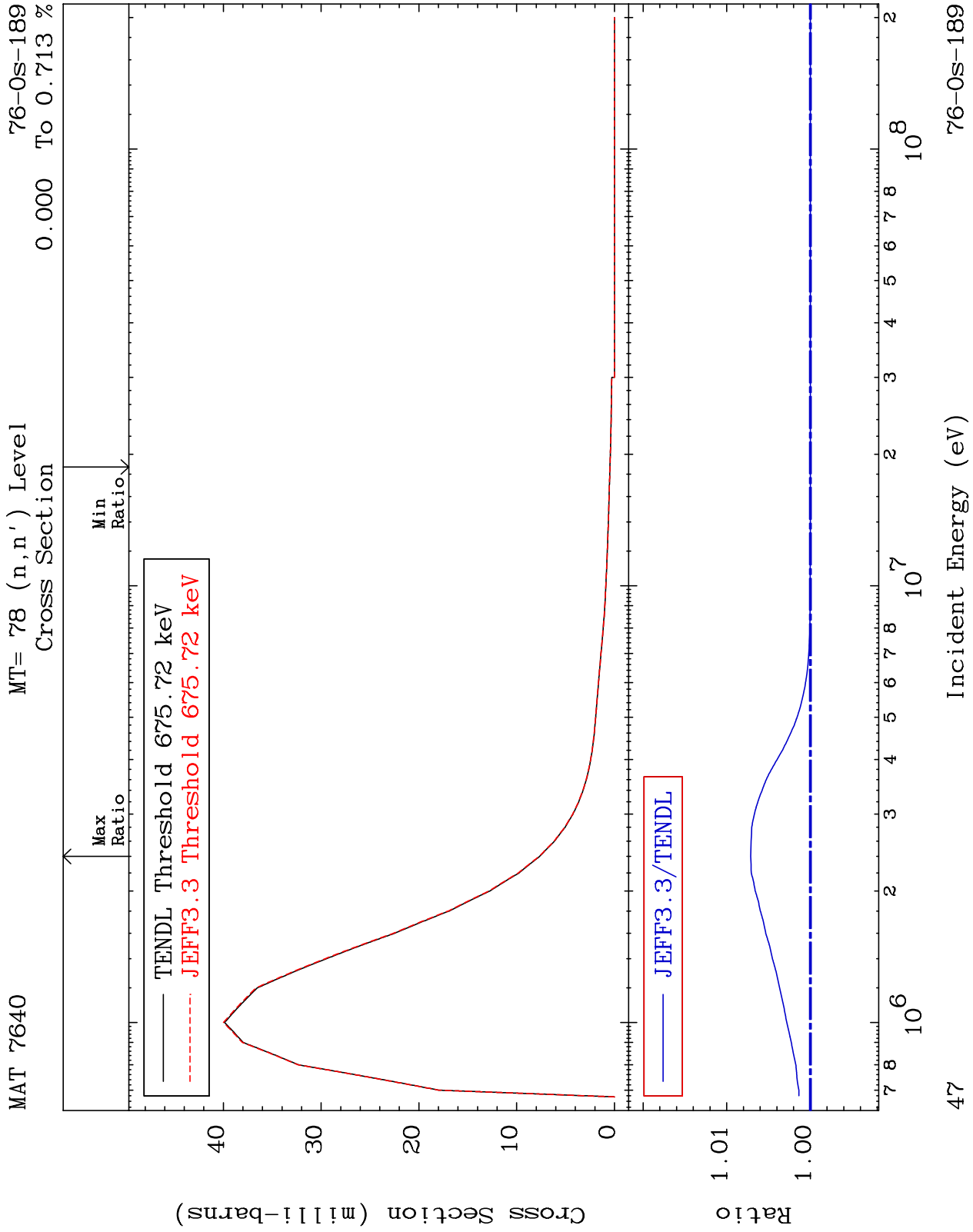


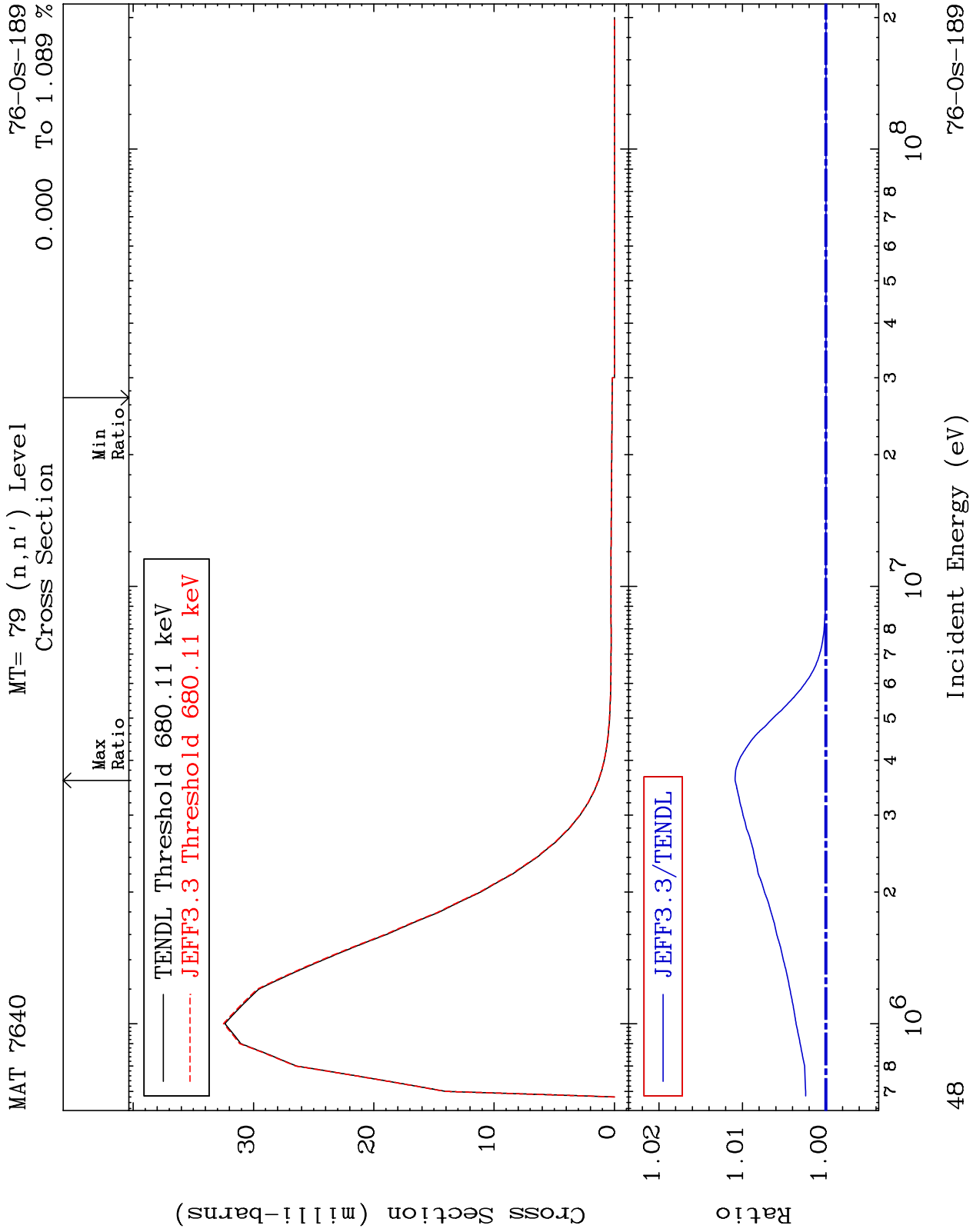


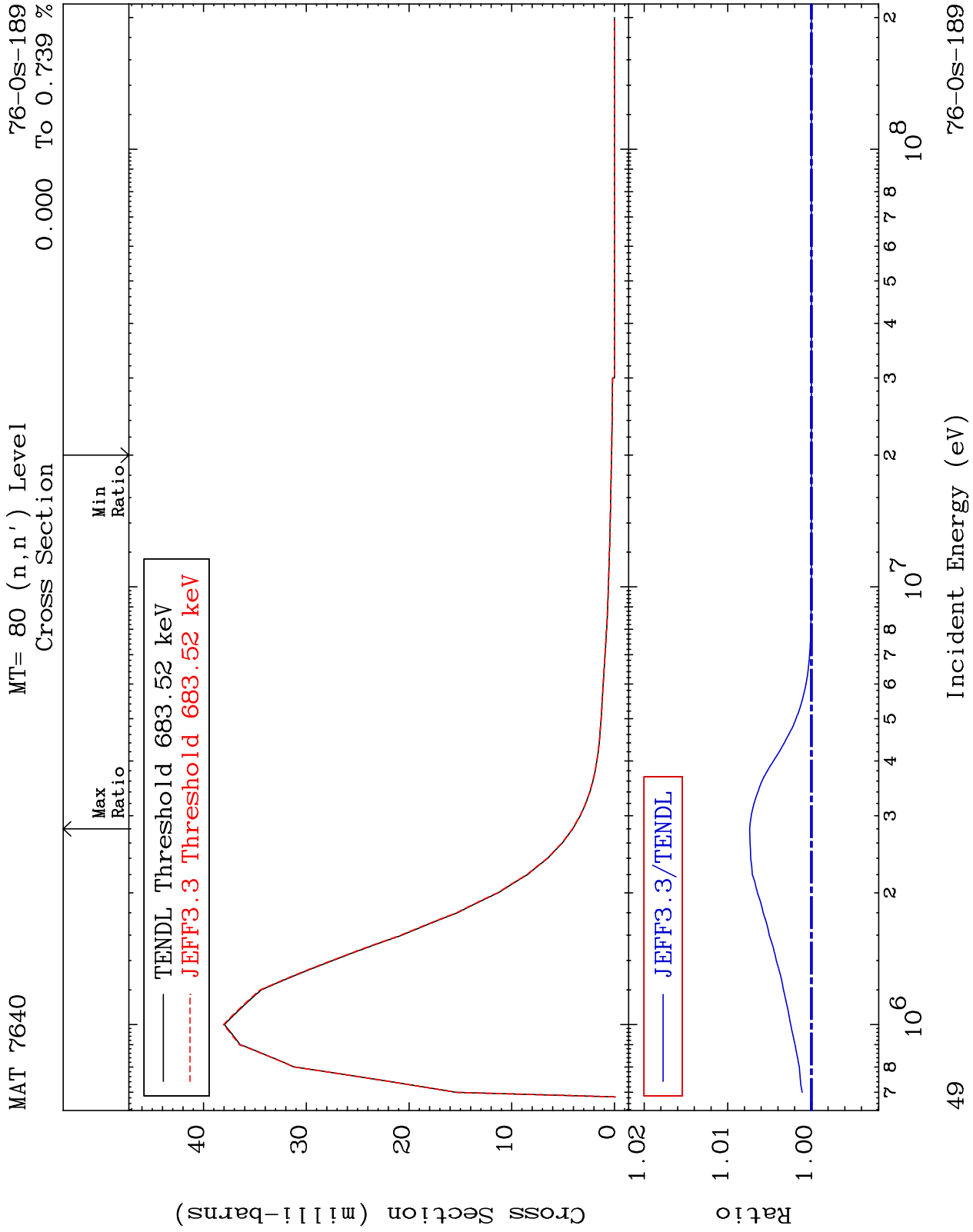








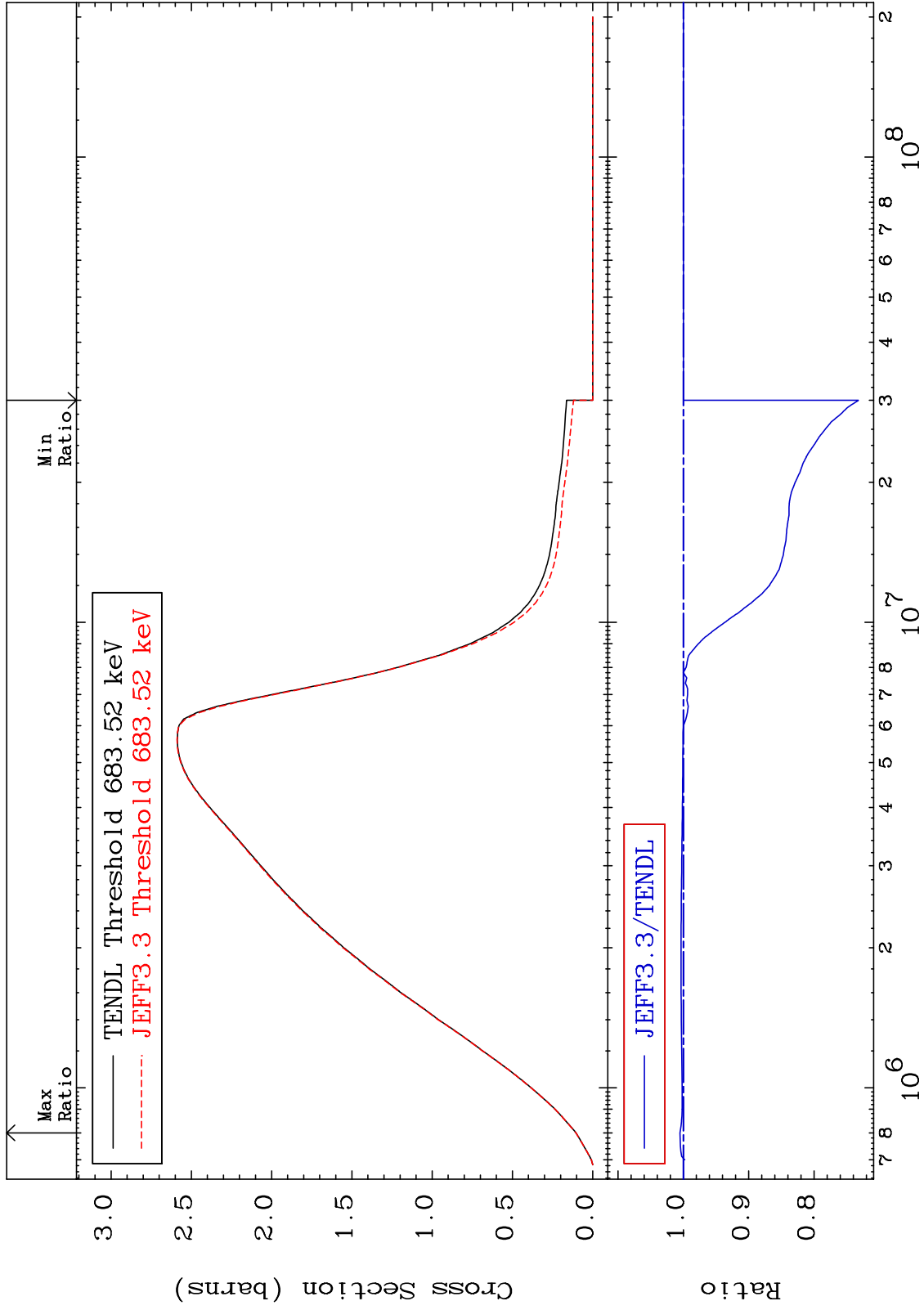




MAT 7640

(n, n') Continuum
Cross Section

76-0s-189
-26.76 To 0.506 %



50

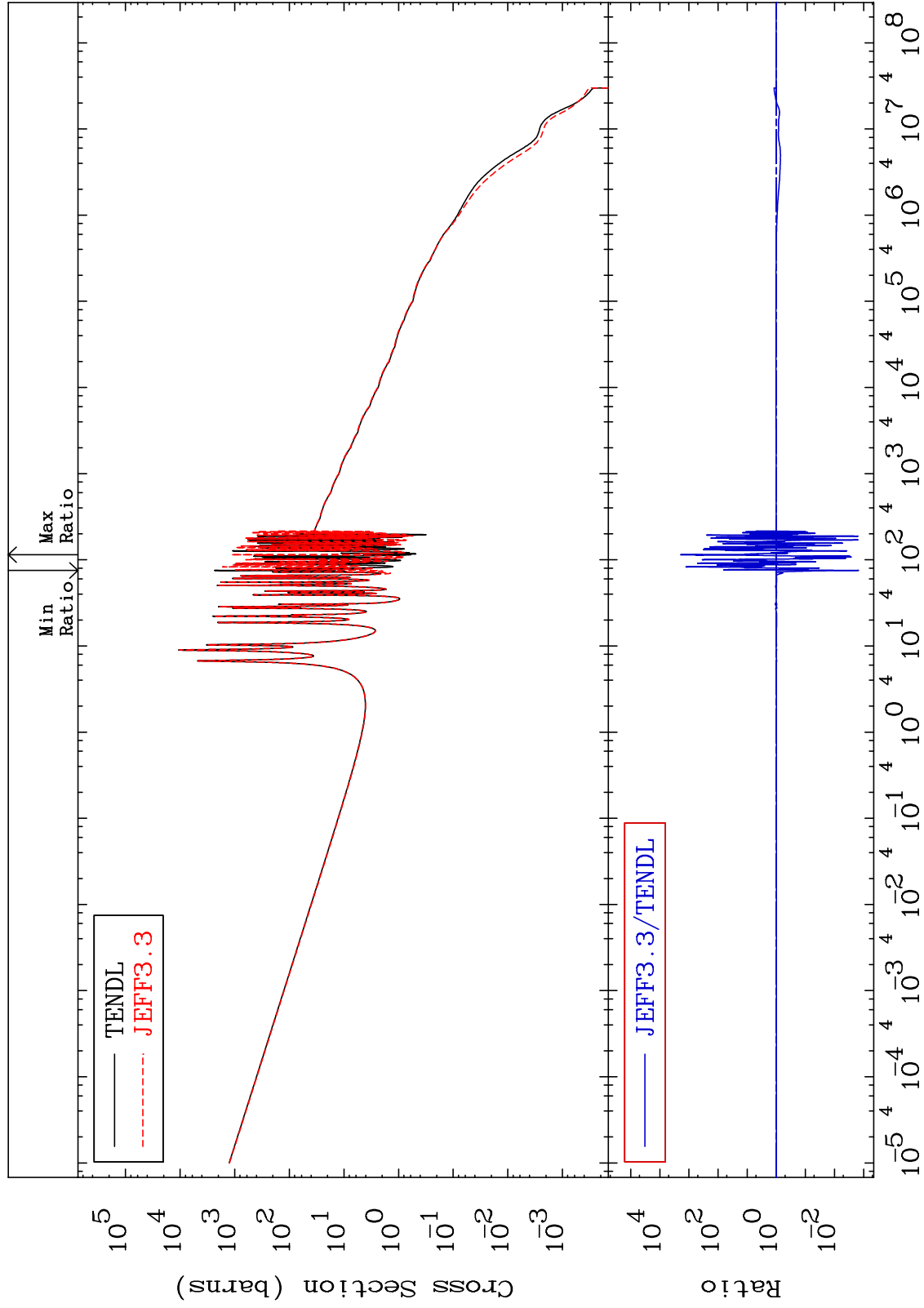
Incident Energy (eV)

76-0s-189

MAT 7640

(n, γ)
Cross Section

76-0s-189
-99.85 To 9999. %



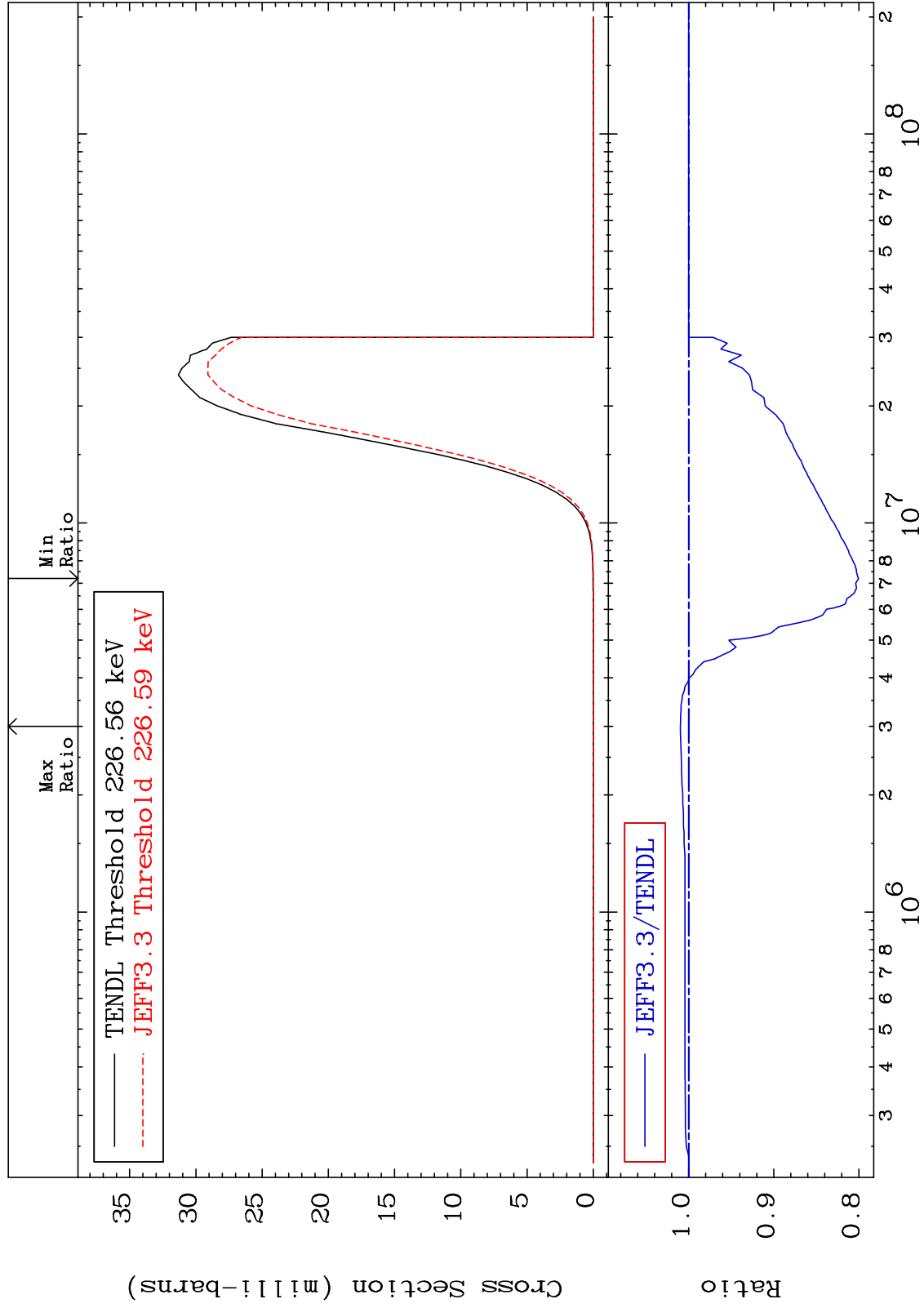
MAT 7640

(n, p)

76-0s-189

Cross Section

-19.96 To 0.969 %



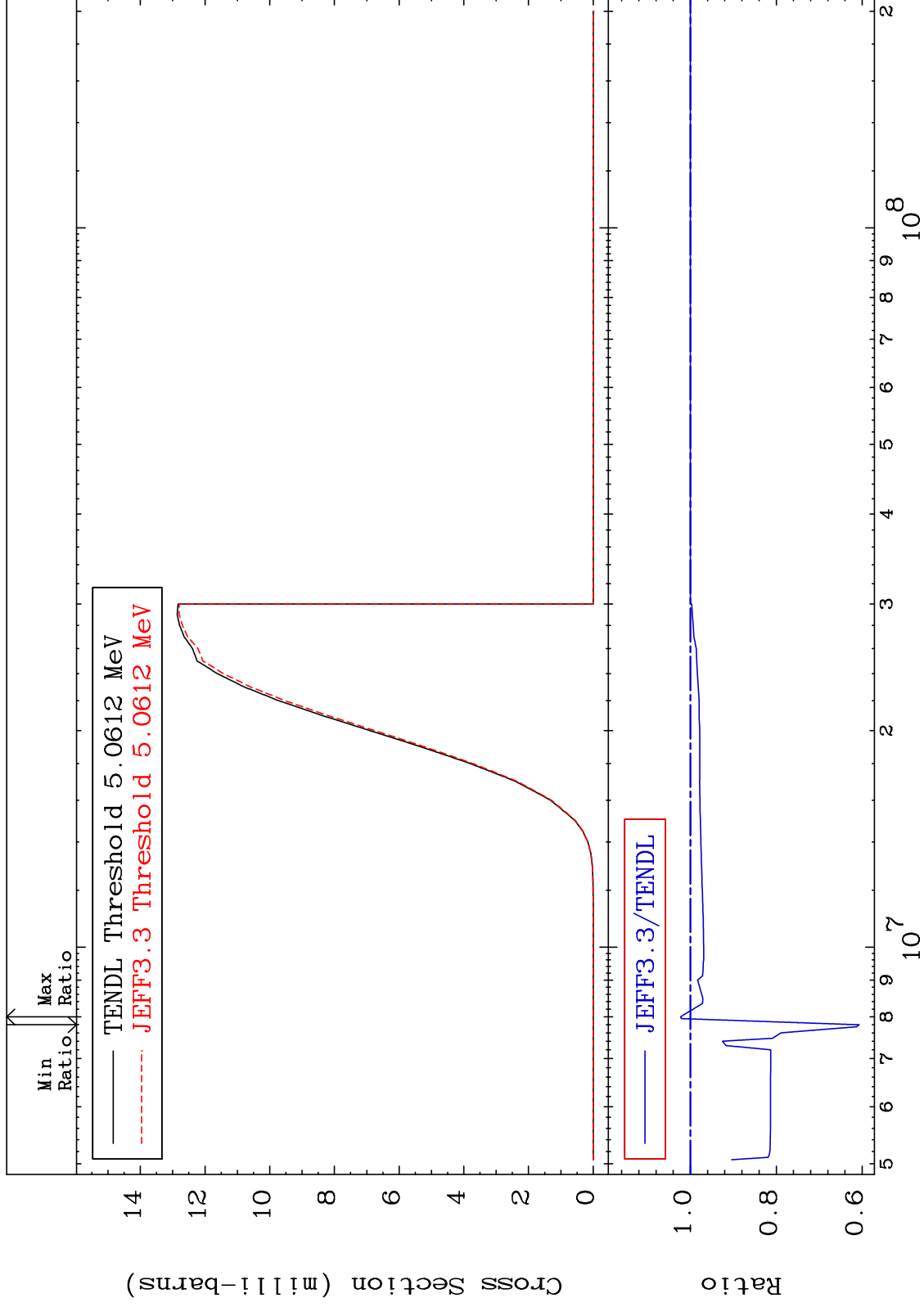
MAT 7640

(n, d)

76-0s-189

Cross Section

-39.29 To 2.268 %



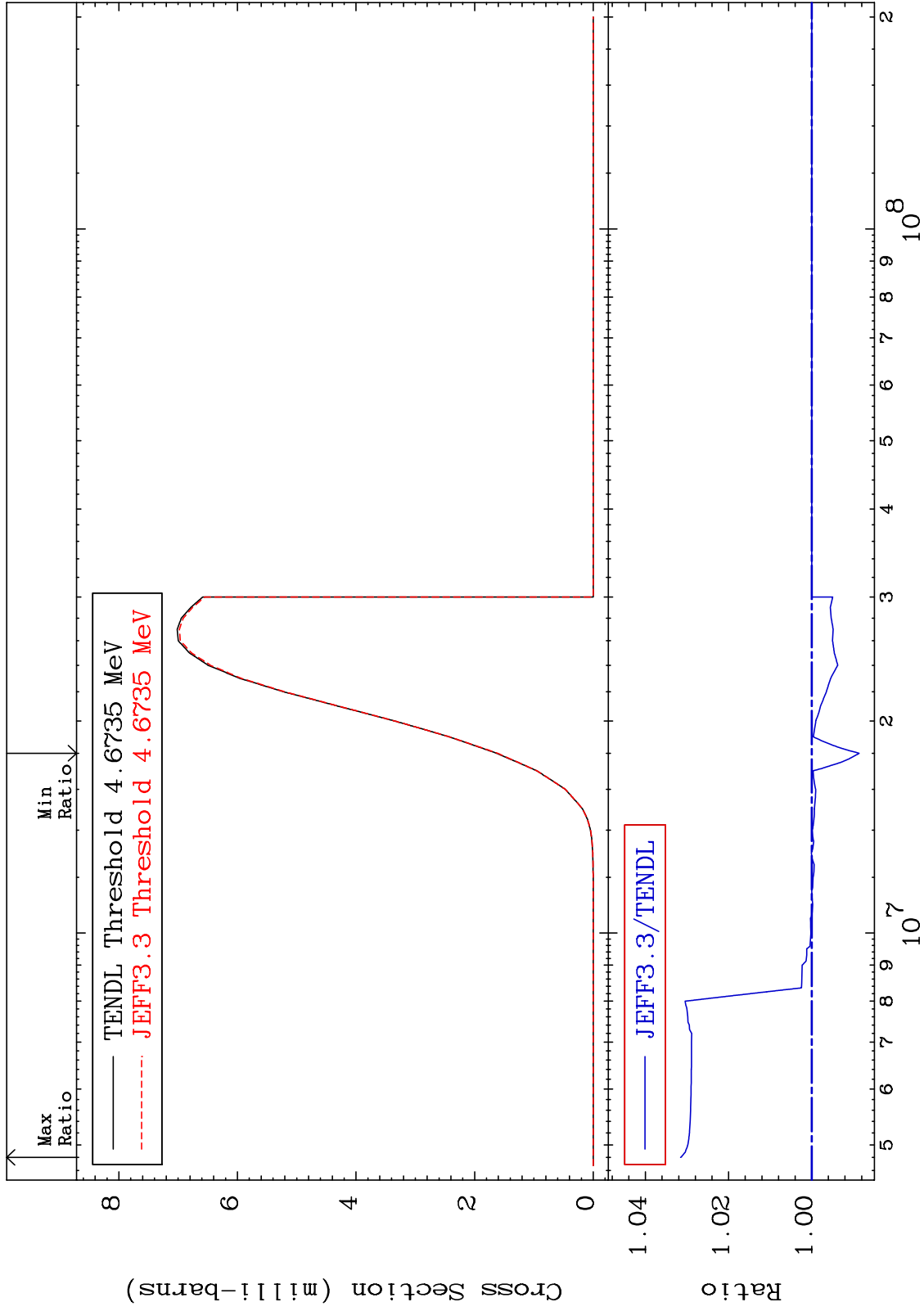
MAT 7640

(n, t)

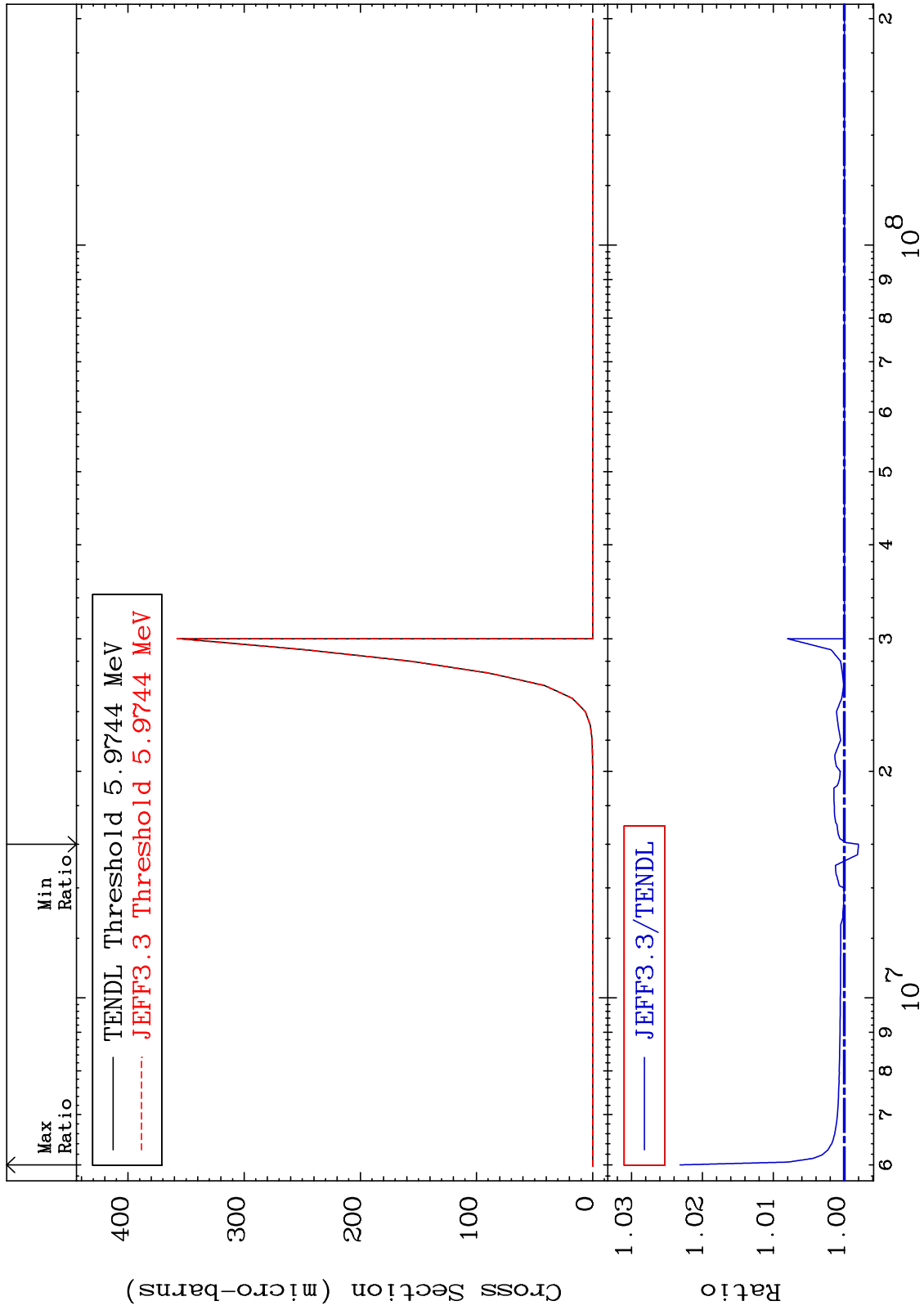
76-0s-189

Cross Section

-1.140 To 3.155 %



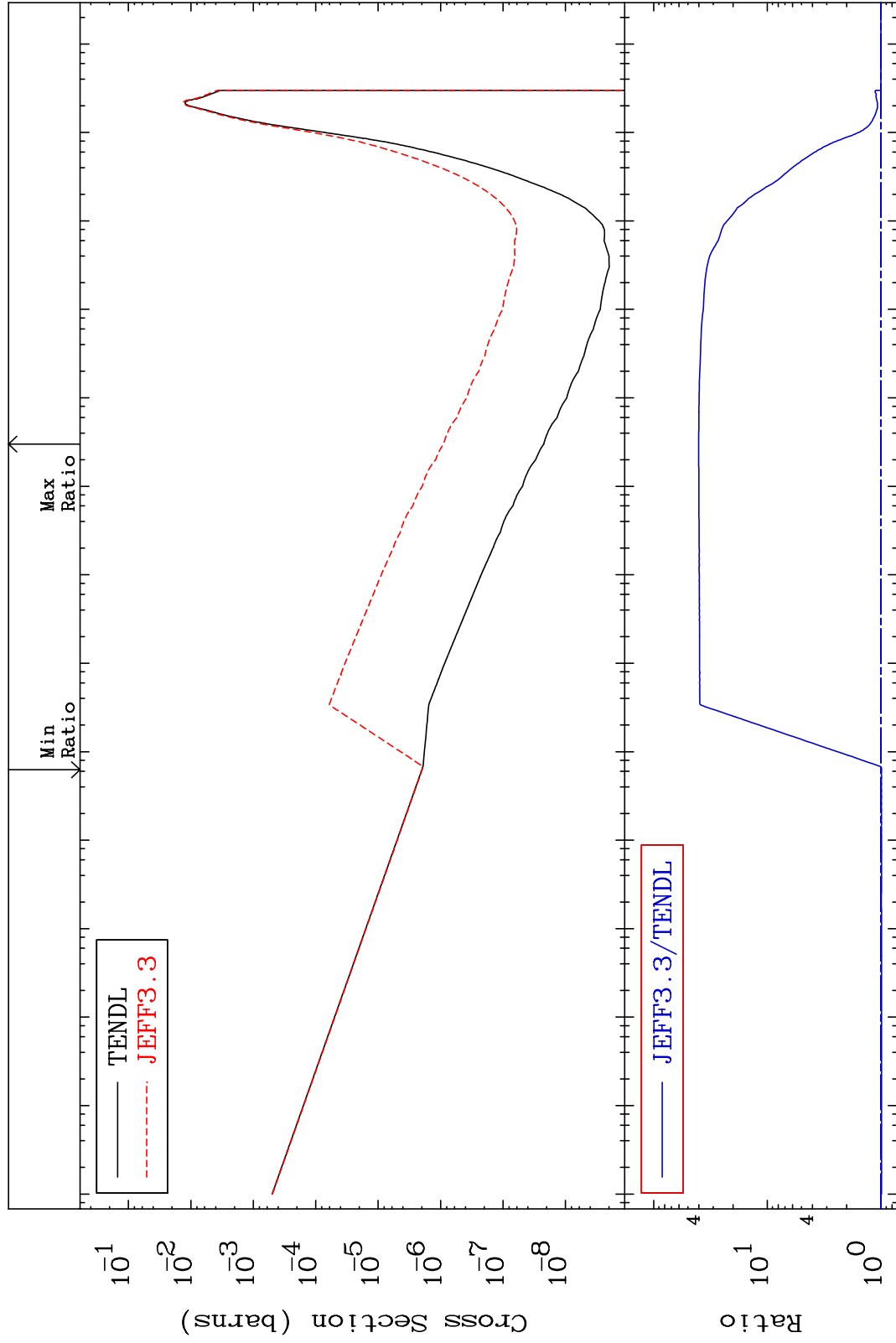
MAT 7640 (n, He-3) Cross Section 76-0s-189 -0.199 To 2.317 %



MAT 7640

(n, α)
Cross Section

76-0s-189
-1.312 To 3917. %



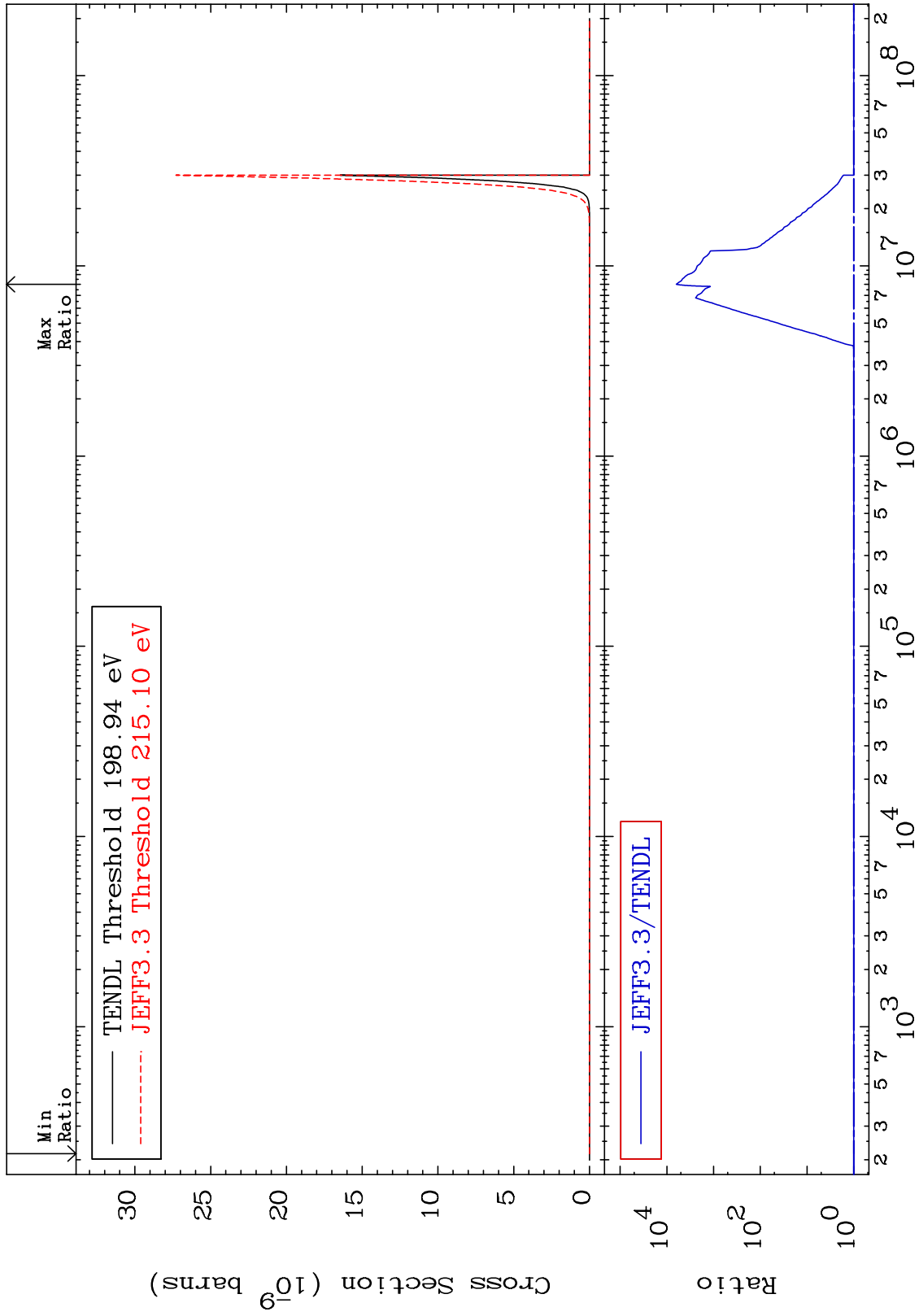
MAT 7640

(n, 2α)

76-0s-189

Cross Section

0.000 To 9999. %



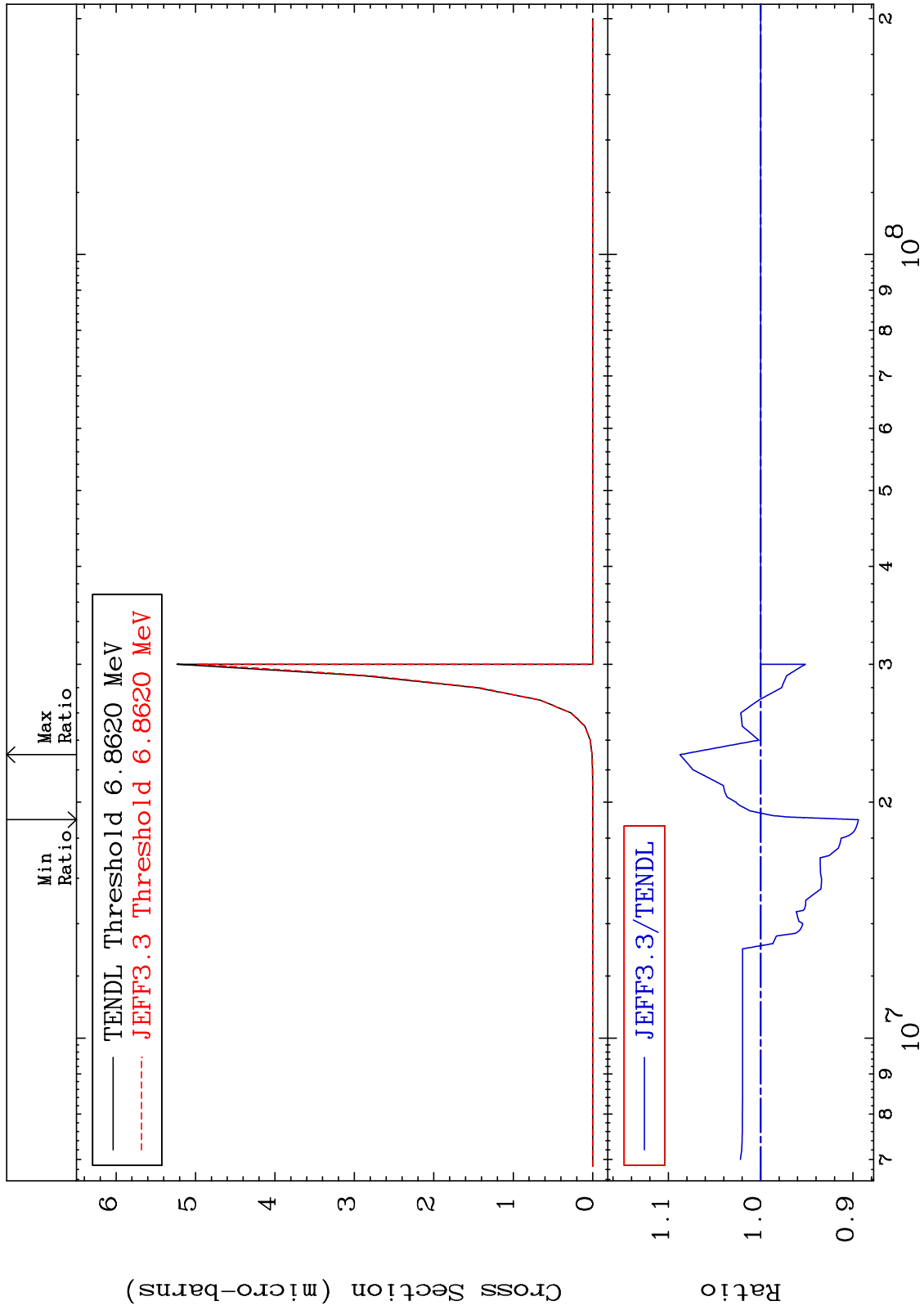
MAT 7640

(n,2p)

76-0s-189

Cross Section

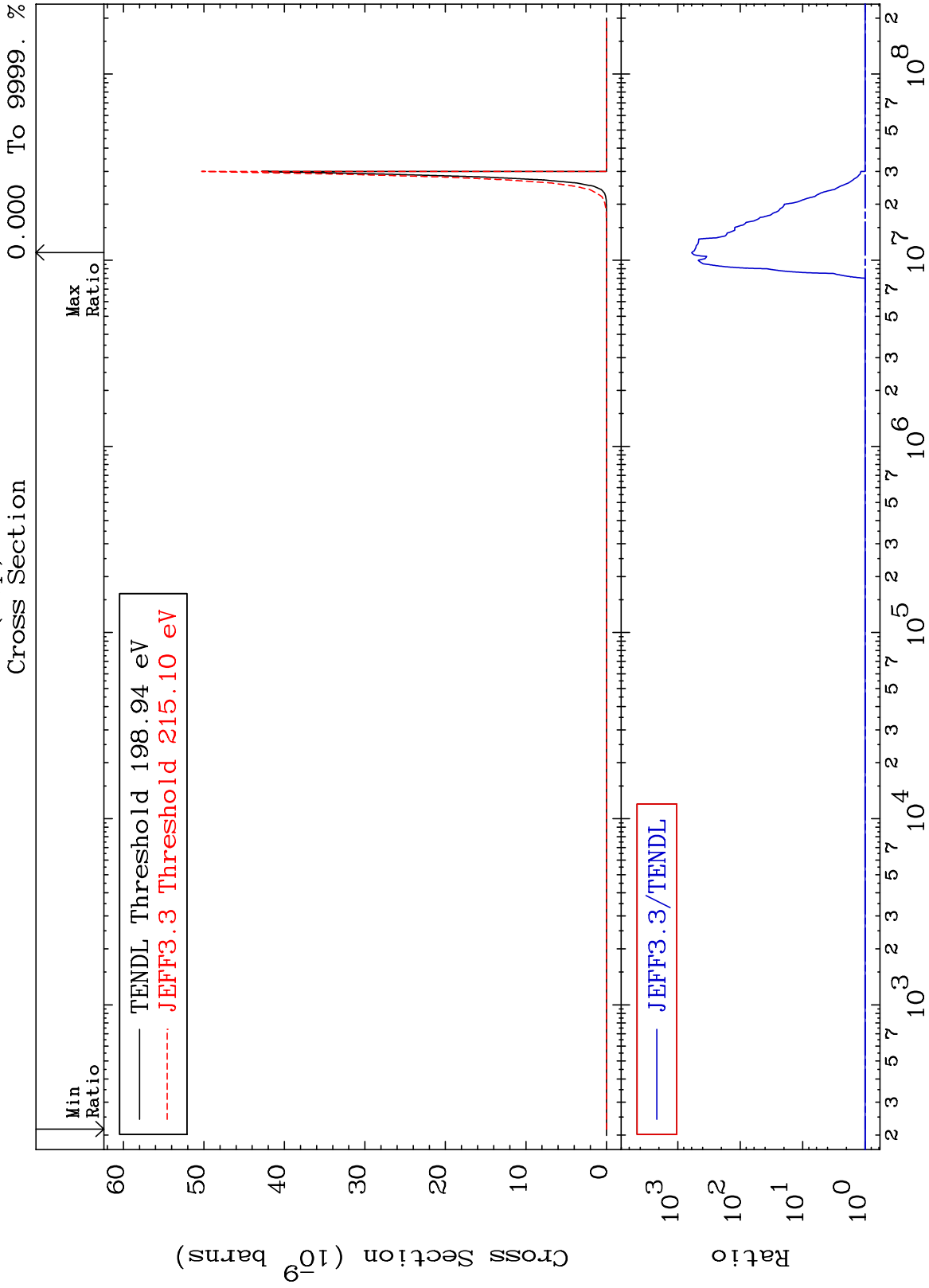
-10.59 To 8.737 %



MAT 7640

(n,p) α

76-0s-189
To 9999. %
0.000



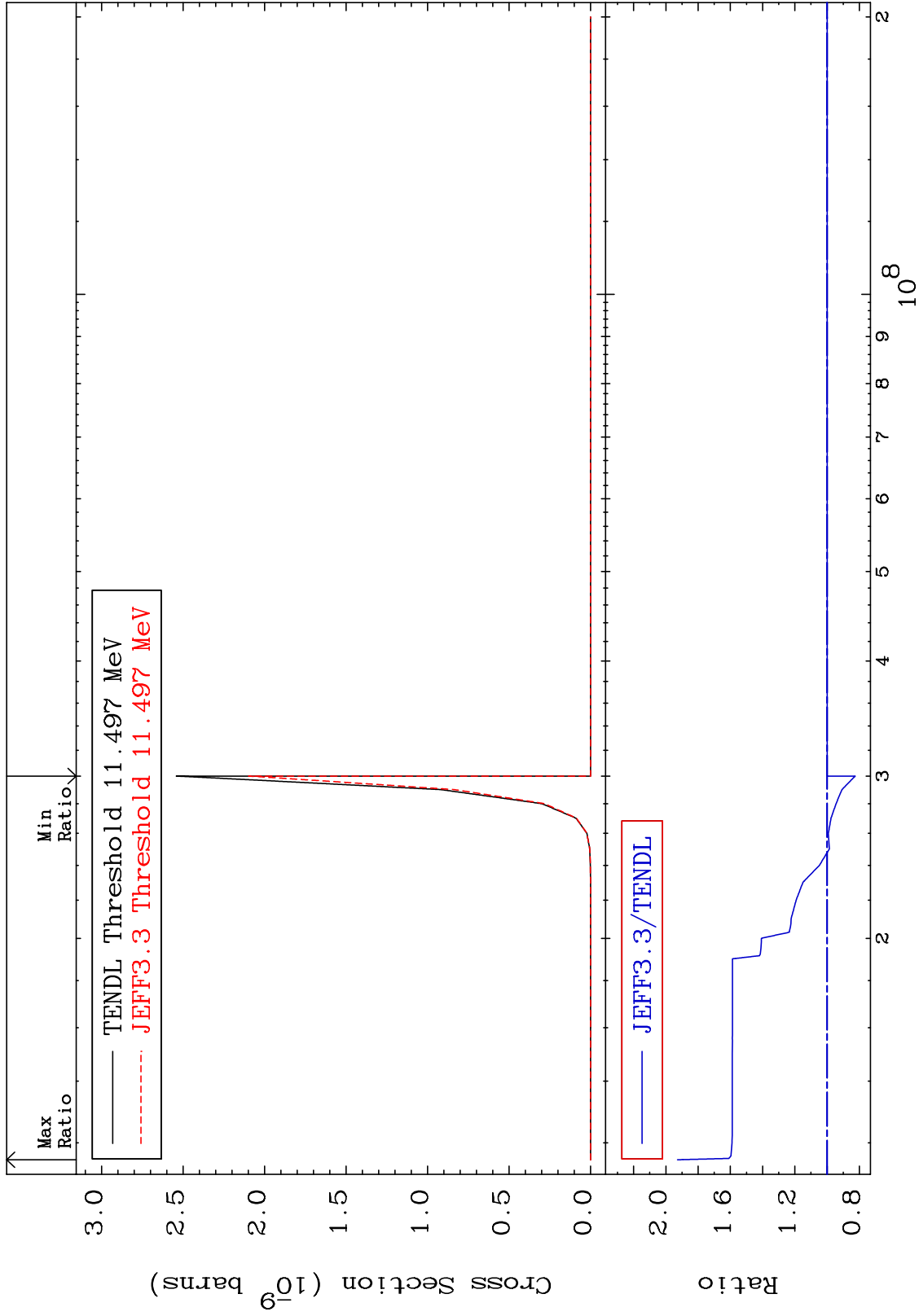
MAT 7640

(n,p) d

76-0s-189

Cross Section

-17.48 To 92.77 %



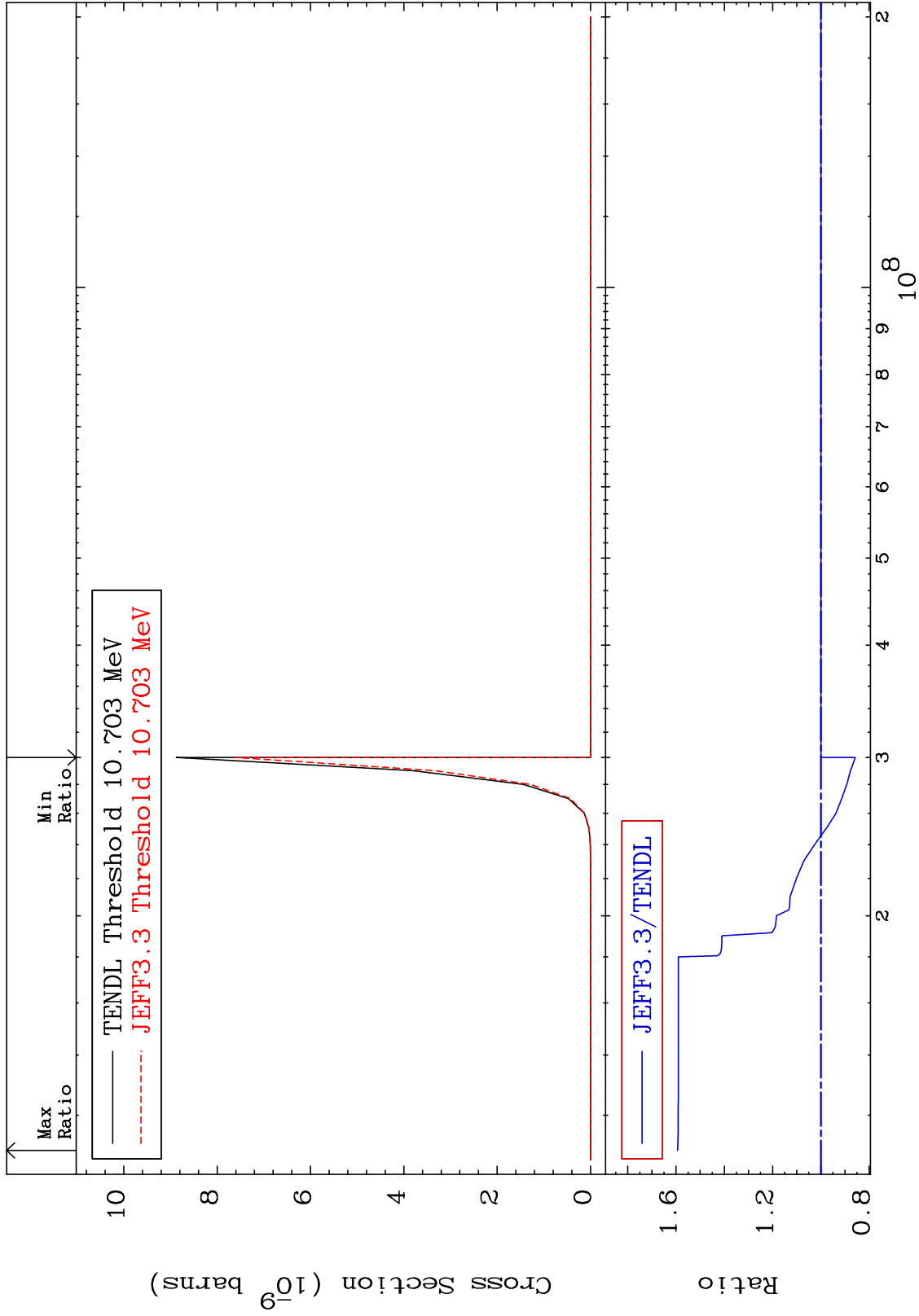
MAT 7640

(n,p) t

76-0s-189

Cross Section

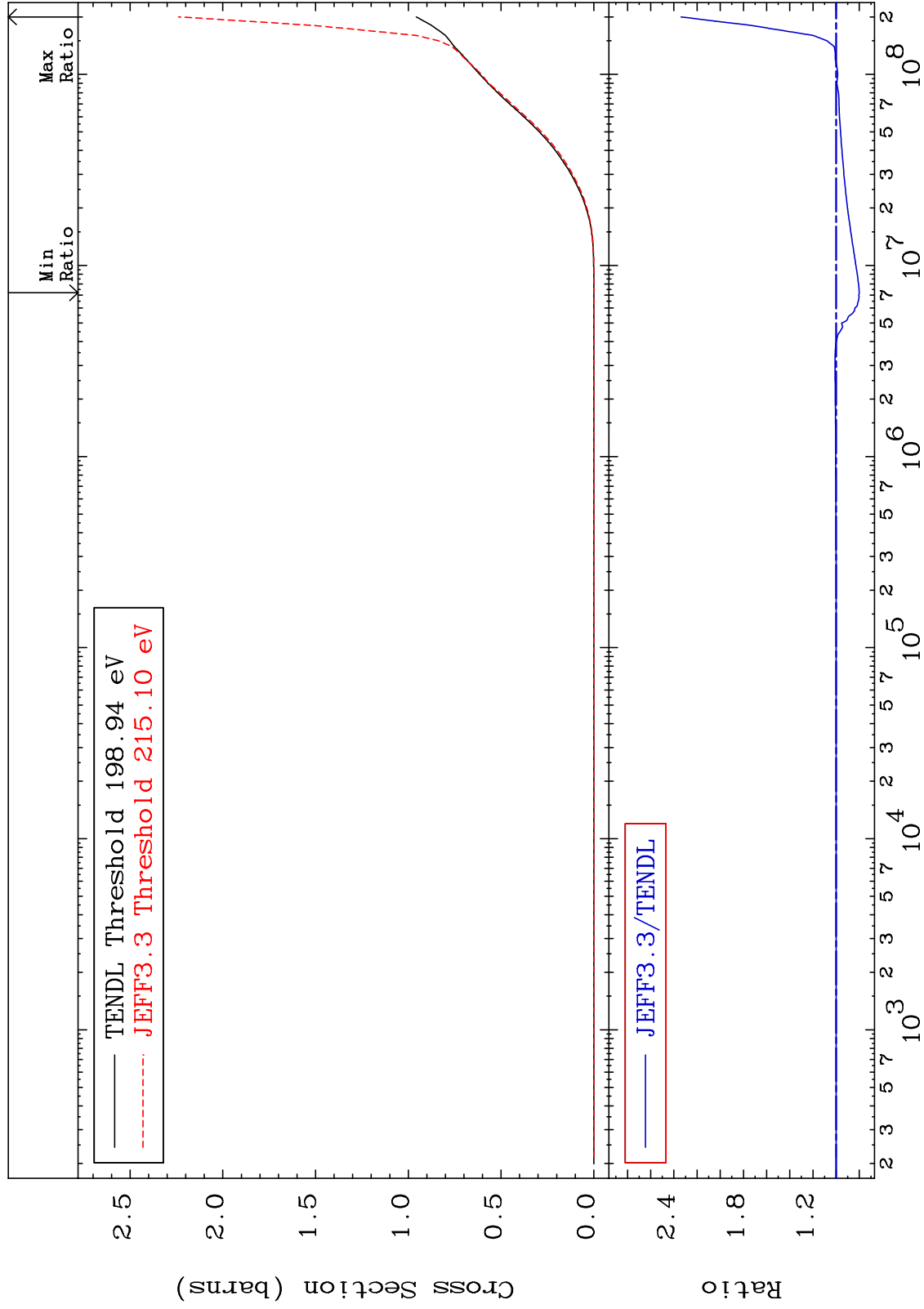
-14.27 To 59.38 %



MAT 7640

Hydrogen Production Cross Section

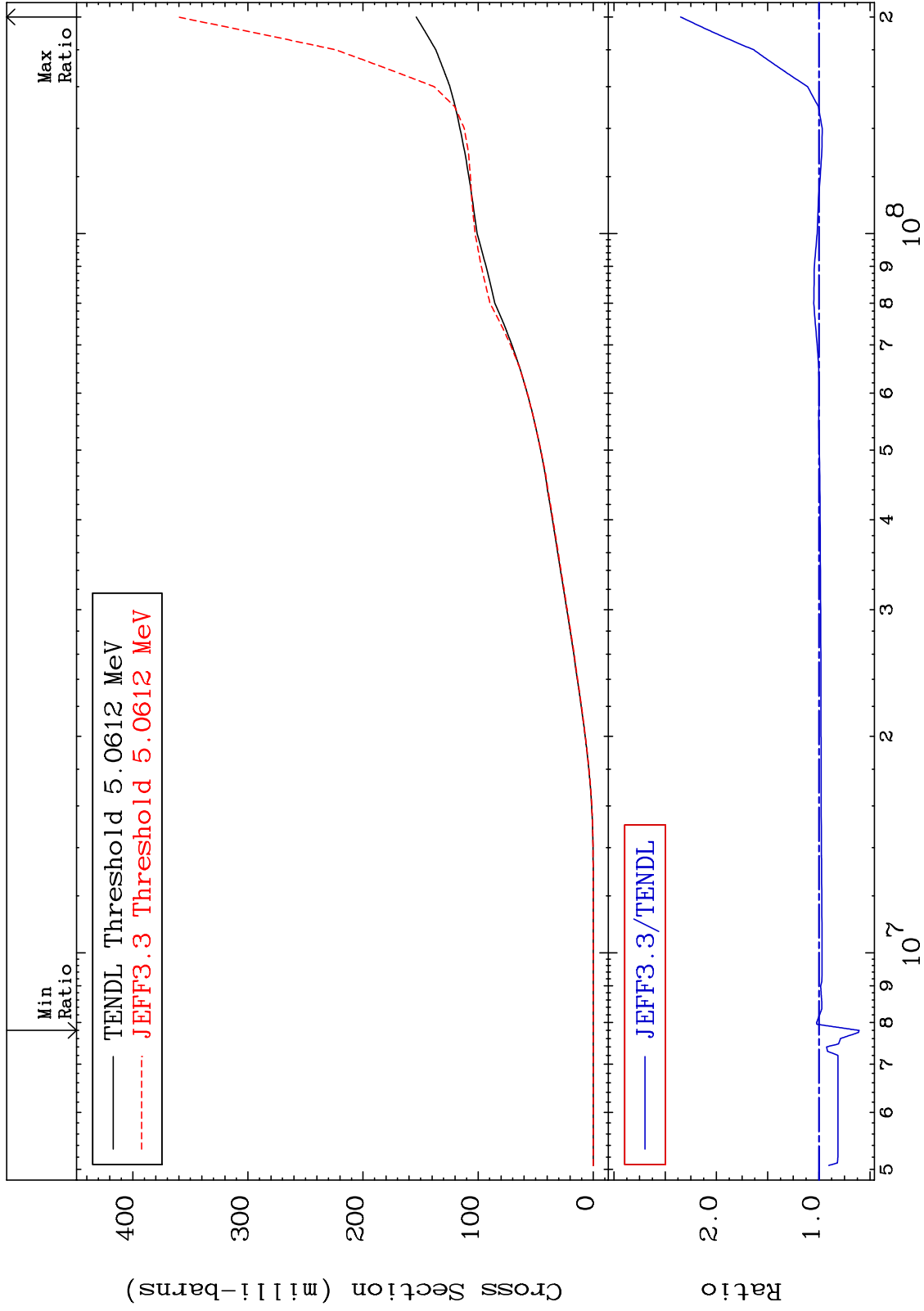
76-0s-189
-19.96 To 133.8 %



MAT 7640

Deuterium Production
Cross Section

76-0s-189
-39.29 To 135.0 %



63

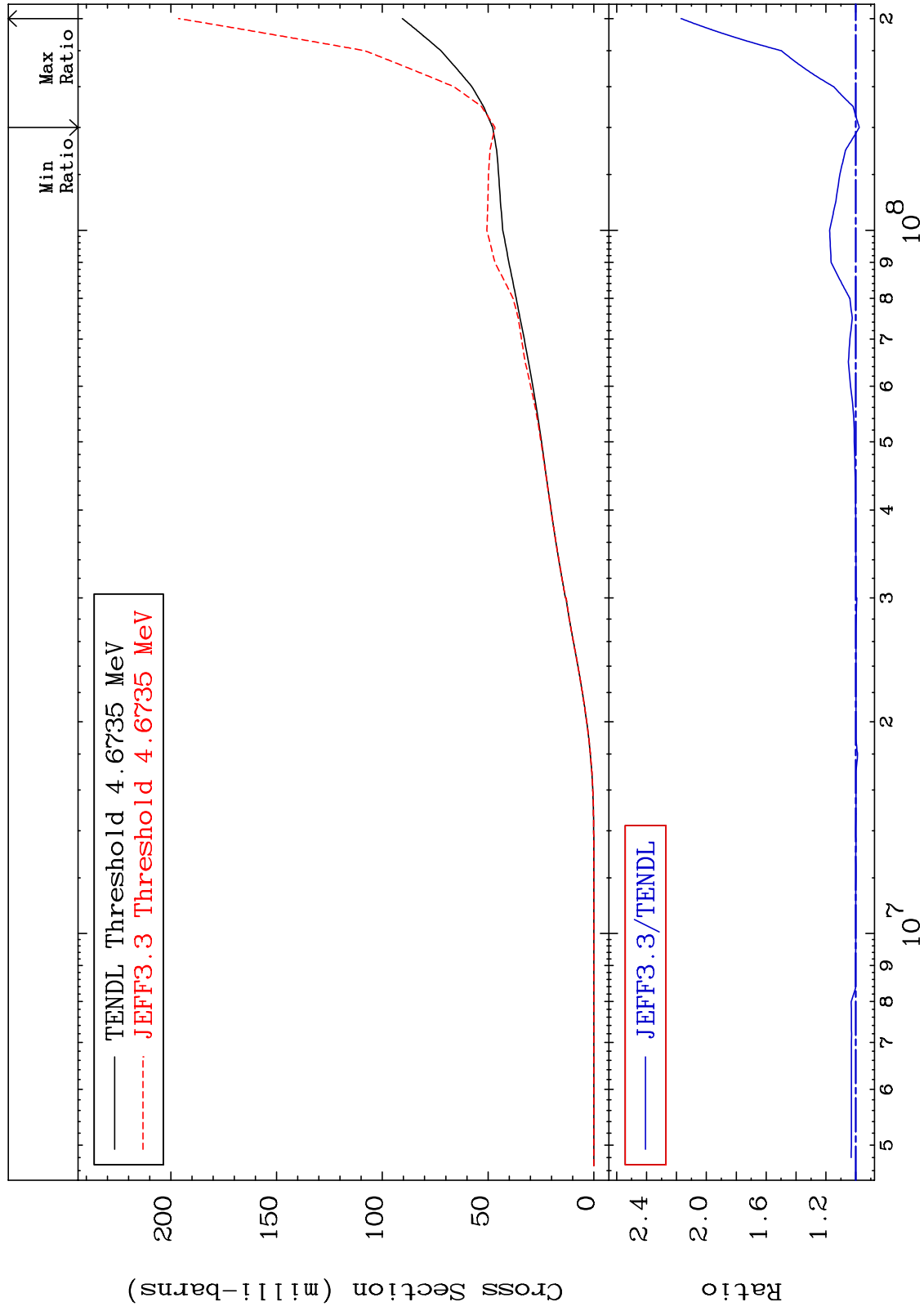
Incident Energy (eV)

76-0s-189

MAT 7640

Tritium Production
Cross Section

76-0s-189
-2.316 To 116.9 %



64

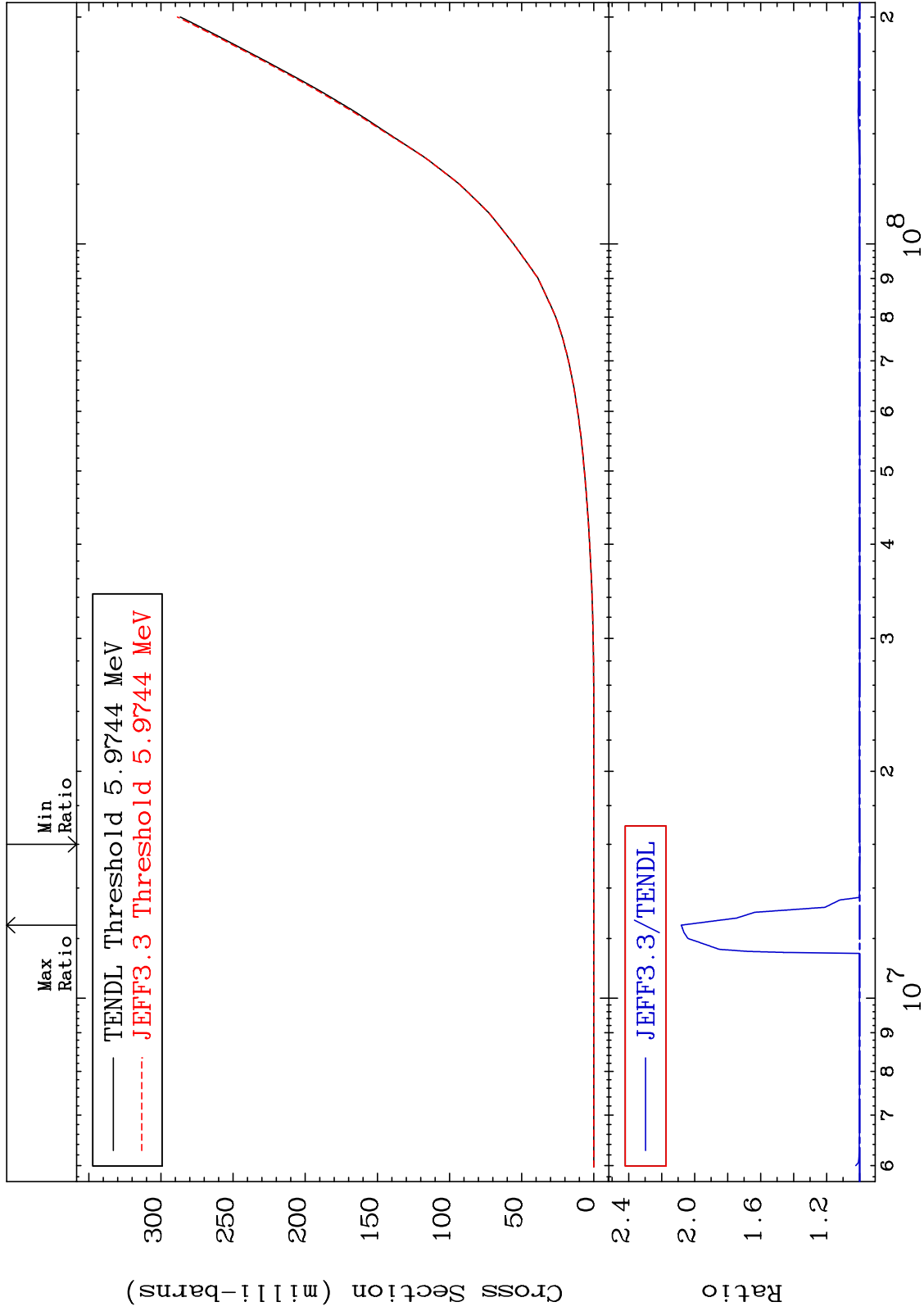
Incident Energy (eV)

76-0s-189

MAT 7640

He-3 Production
Cross Section

76-0s-189
-0.198 To 108.1 %



65

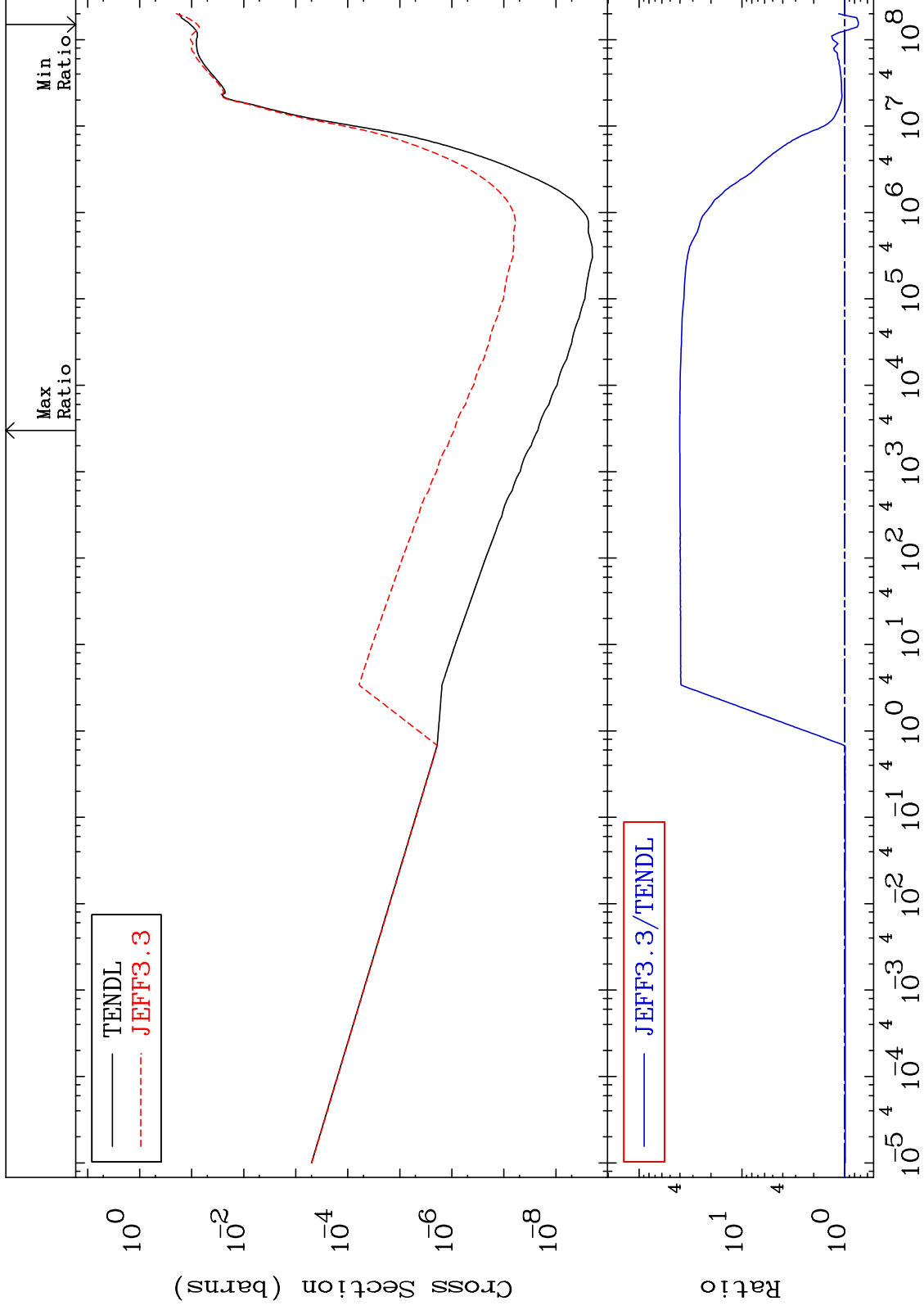
Incident Energy (eV)

76-0s-189

MAT 7640

He-4 Production
Cross Section

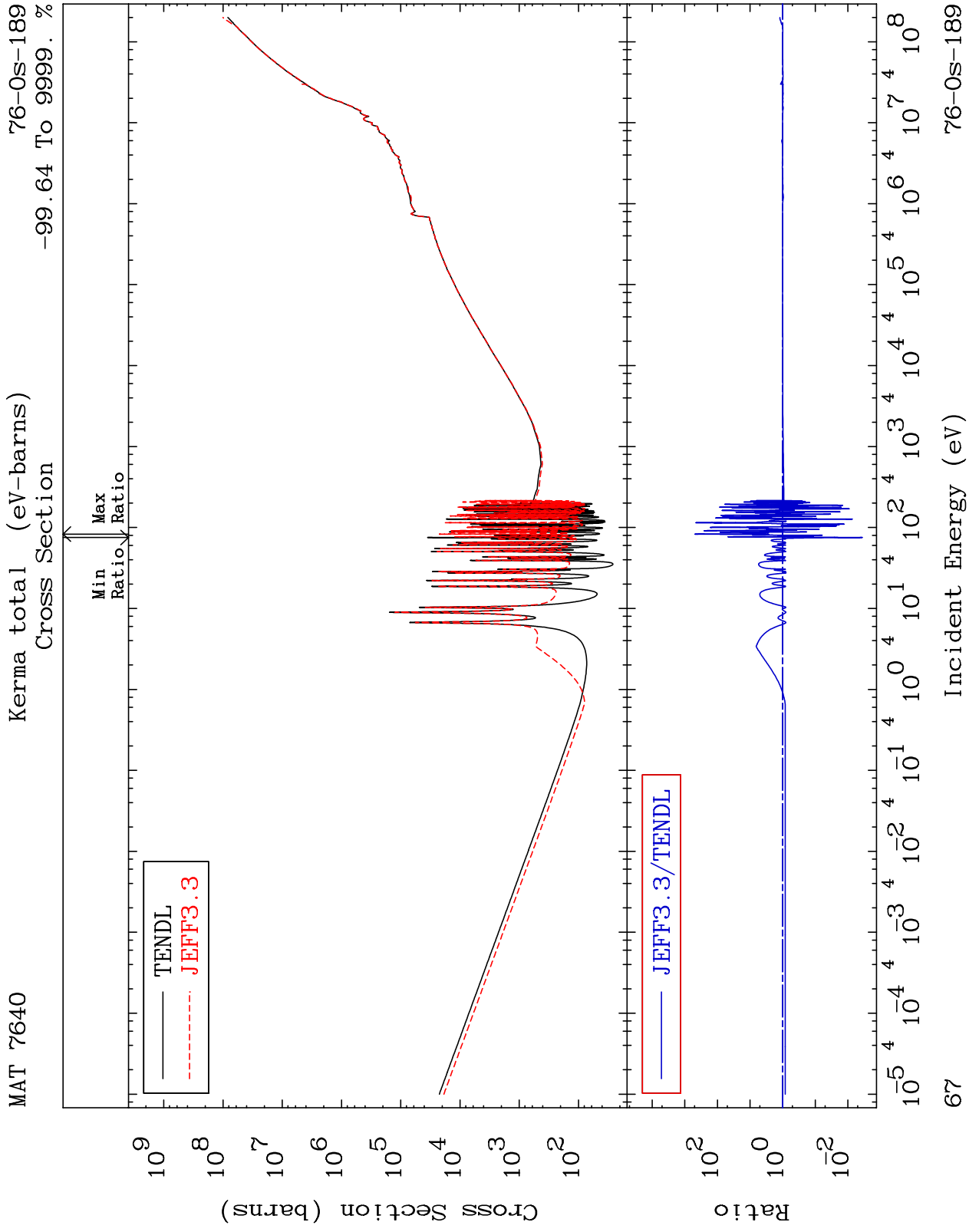
76-0s-189
-26.39 To 3917. %



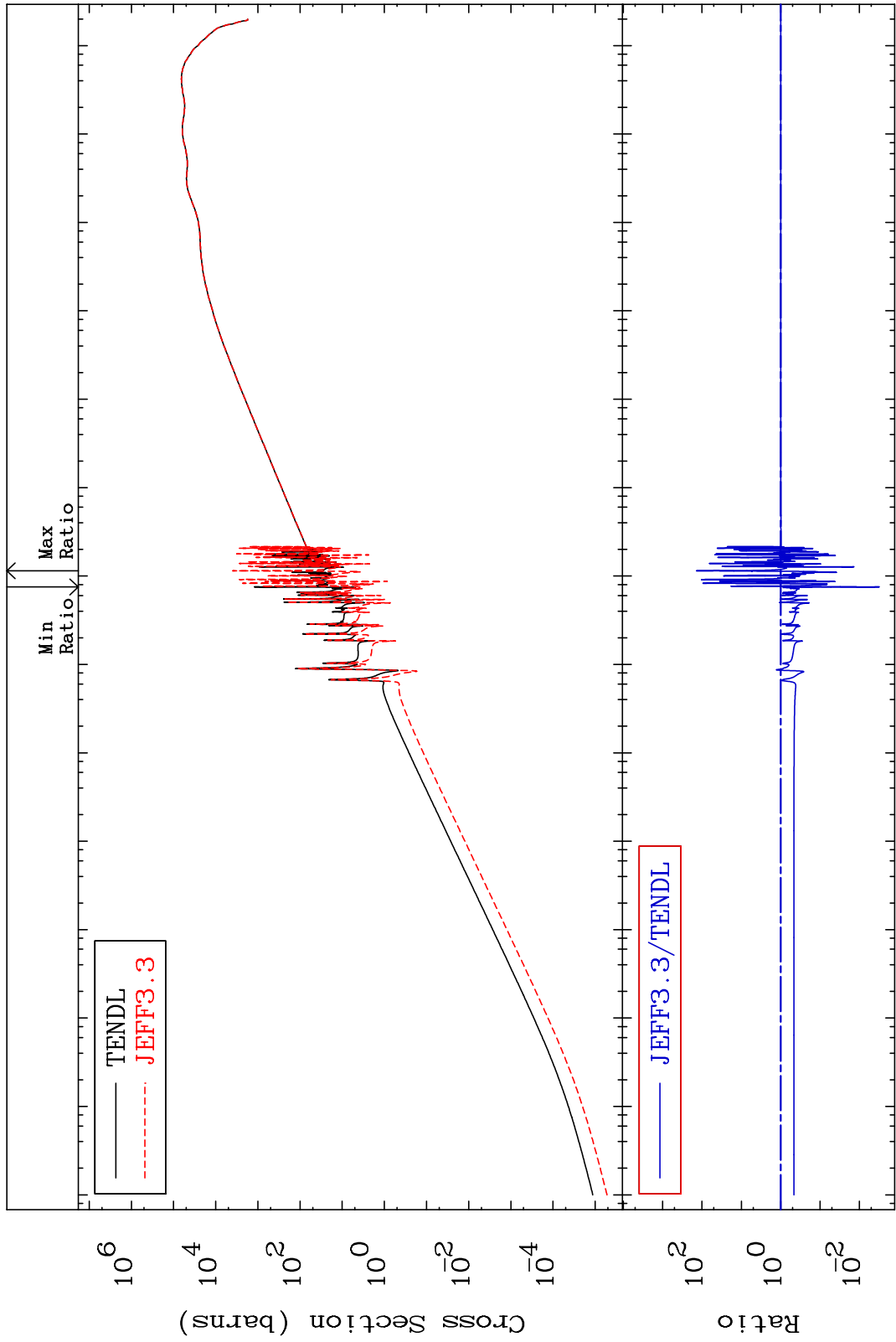
66

Incident Energy (eV)

76-0s-189



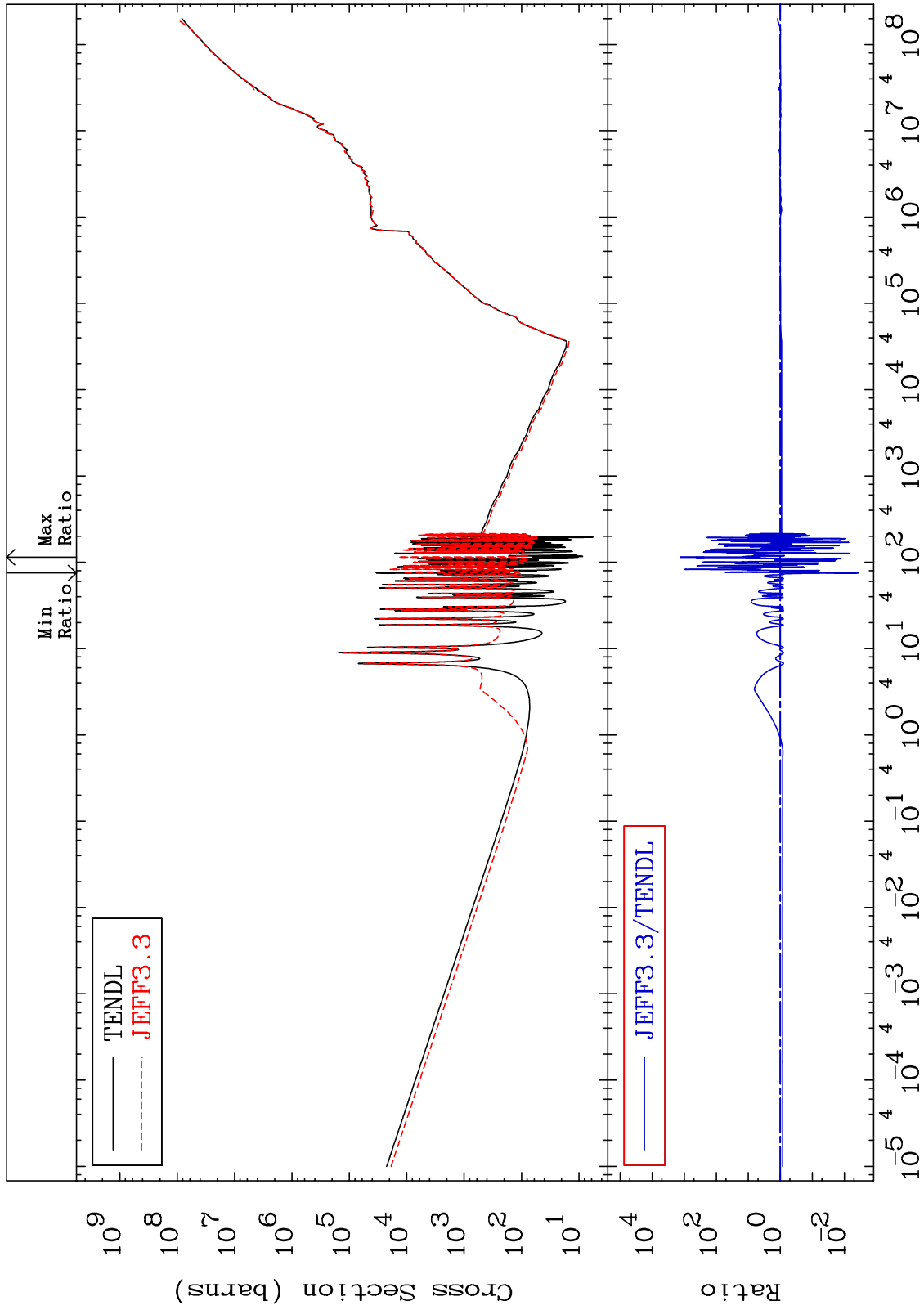
MAT 7640 Kerma elastic Cross Section 76-0s-189
-99.68 To 9999. %



MAT 7640

Kerma non-elastic (all but mt2)
Cross Section

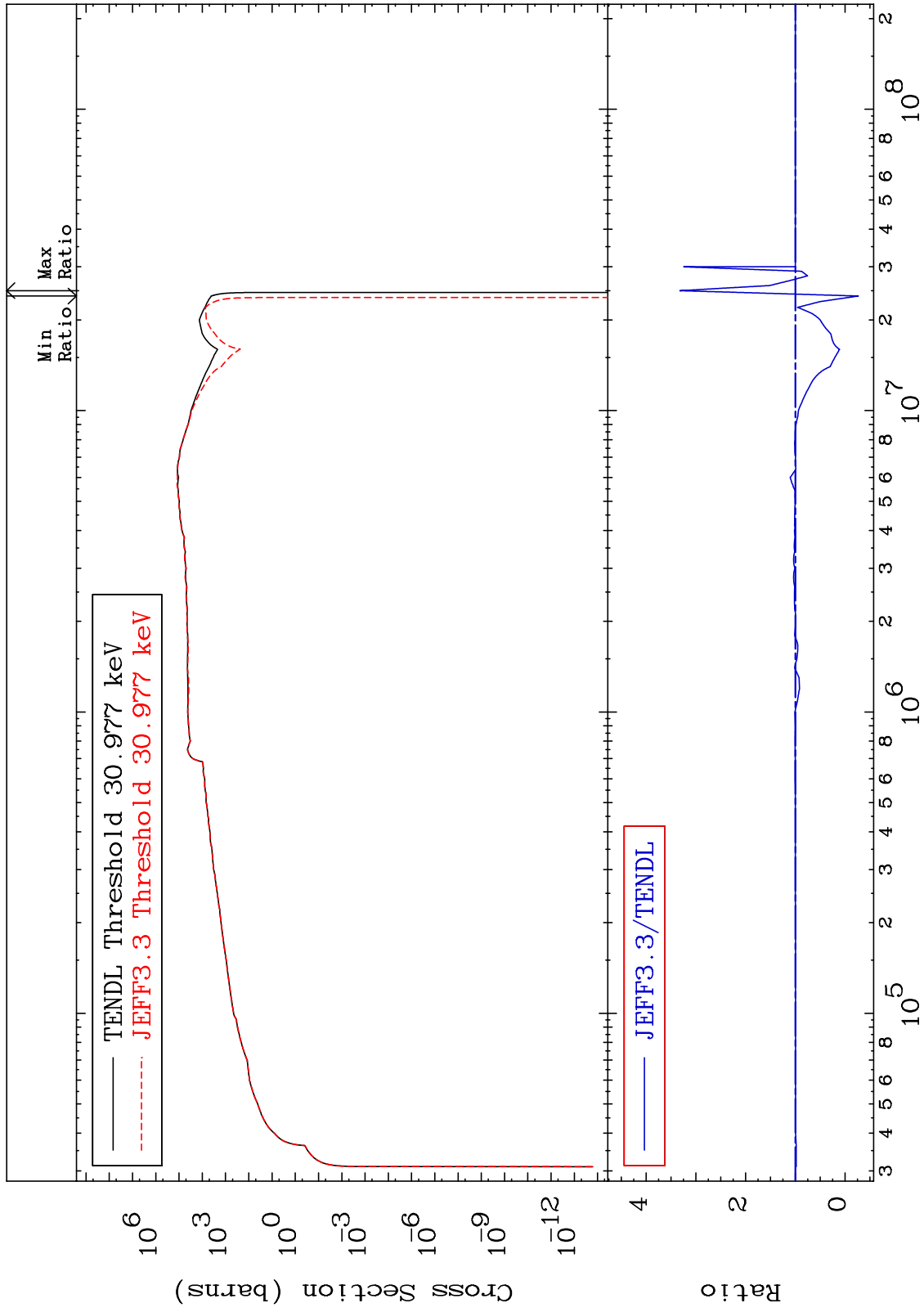
76-0s-189
-99.64 To 9999. %



MAT 7640

Kerma inelastic (mt51-91)
Cross Section

76-0s-189
-127.0 To 231.8 %



70

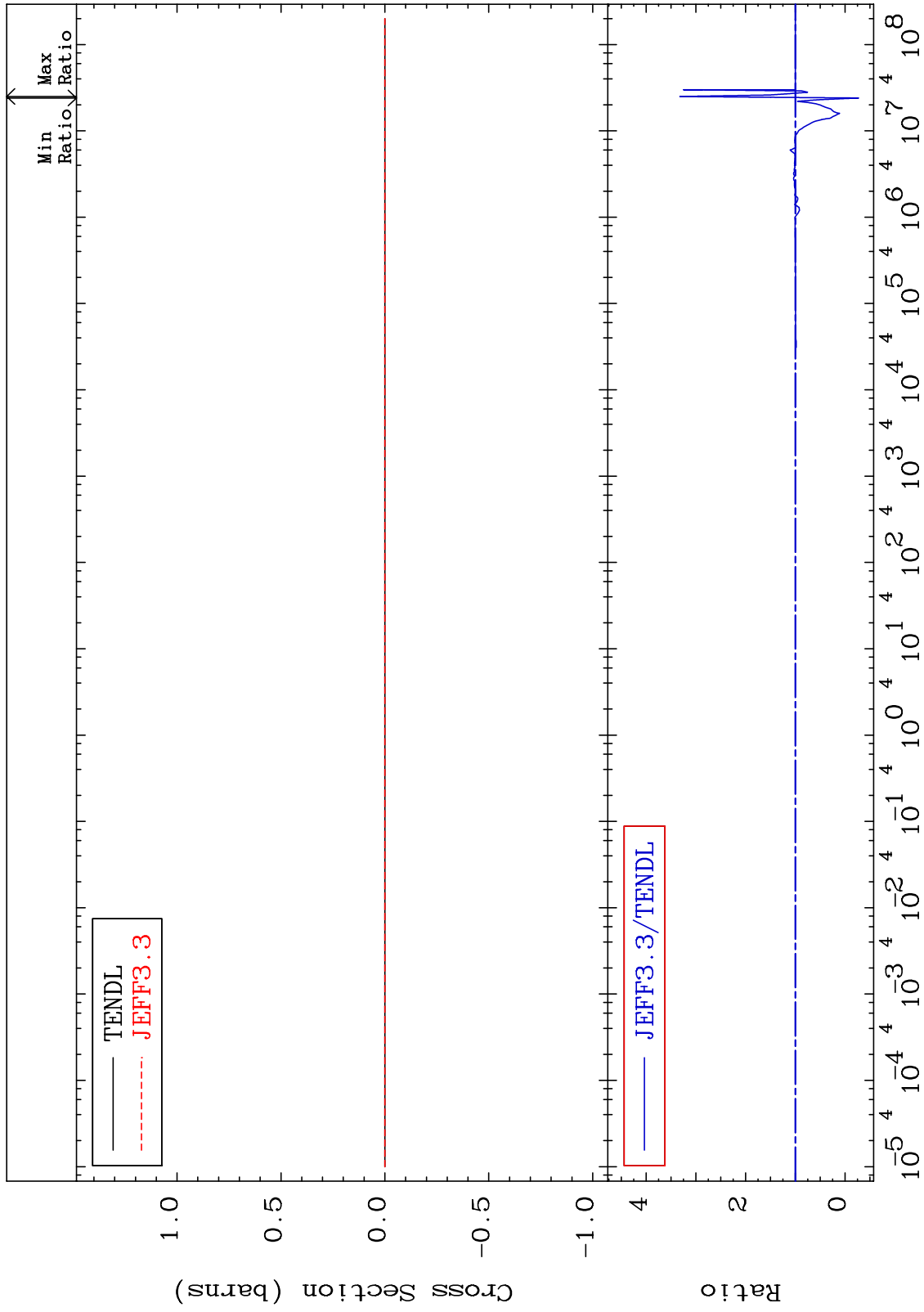
Incident Energy (eV)

76-0s-189

MAT 7640

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

76-0s-189
-127.0 To 231.8 %



71

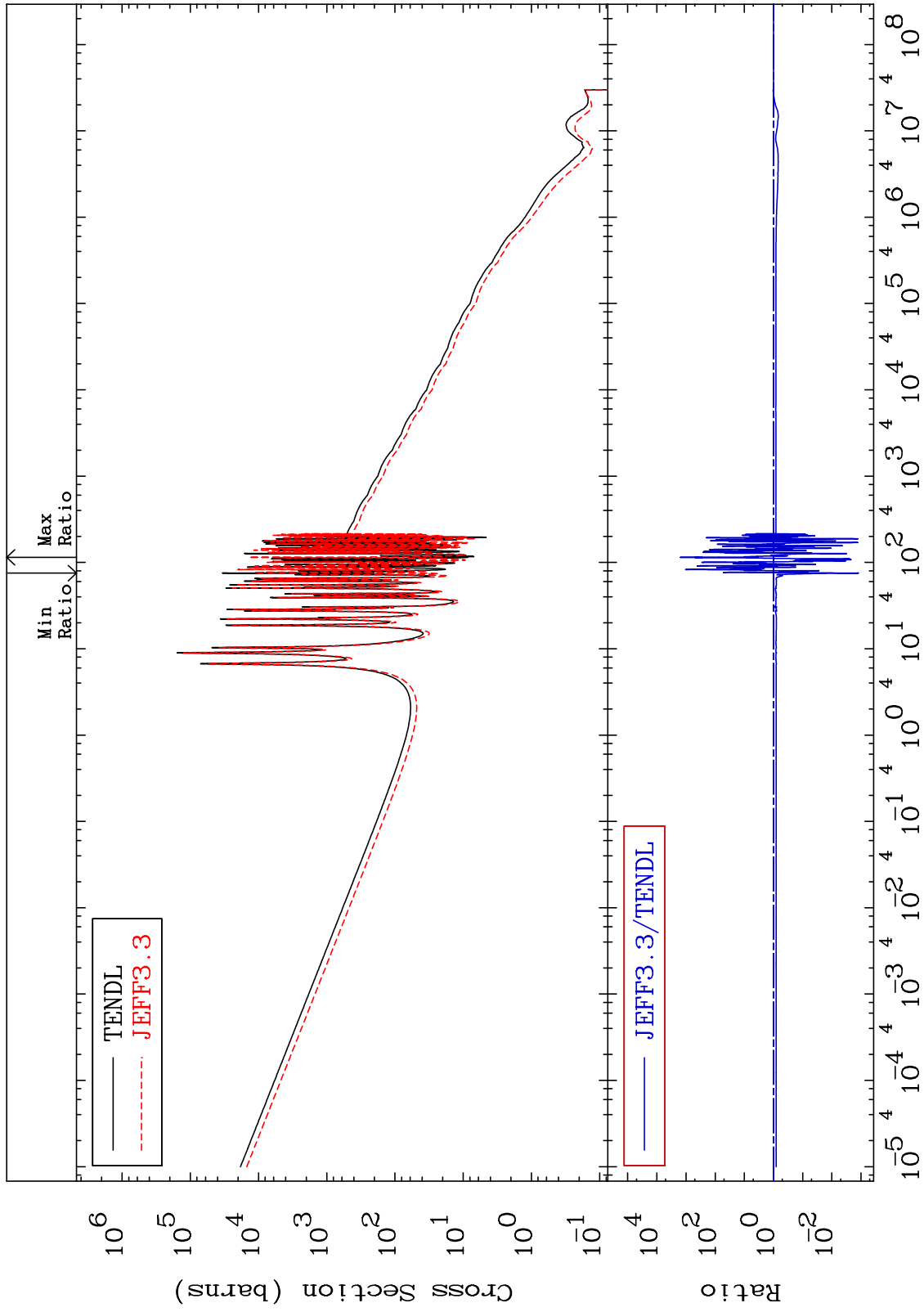
Incident Energy (eV)

76-0s-189

MAT 7640

Kerma capture (mt102)
Cross Section

76-0s-189
-99.88 To 9999. %



72

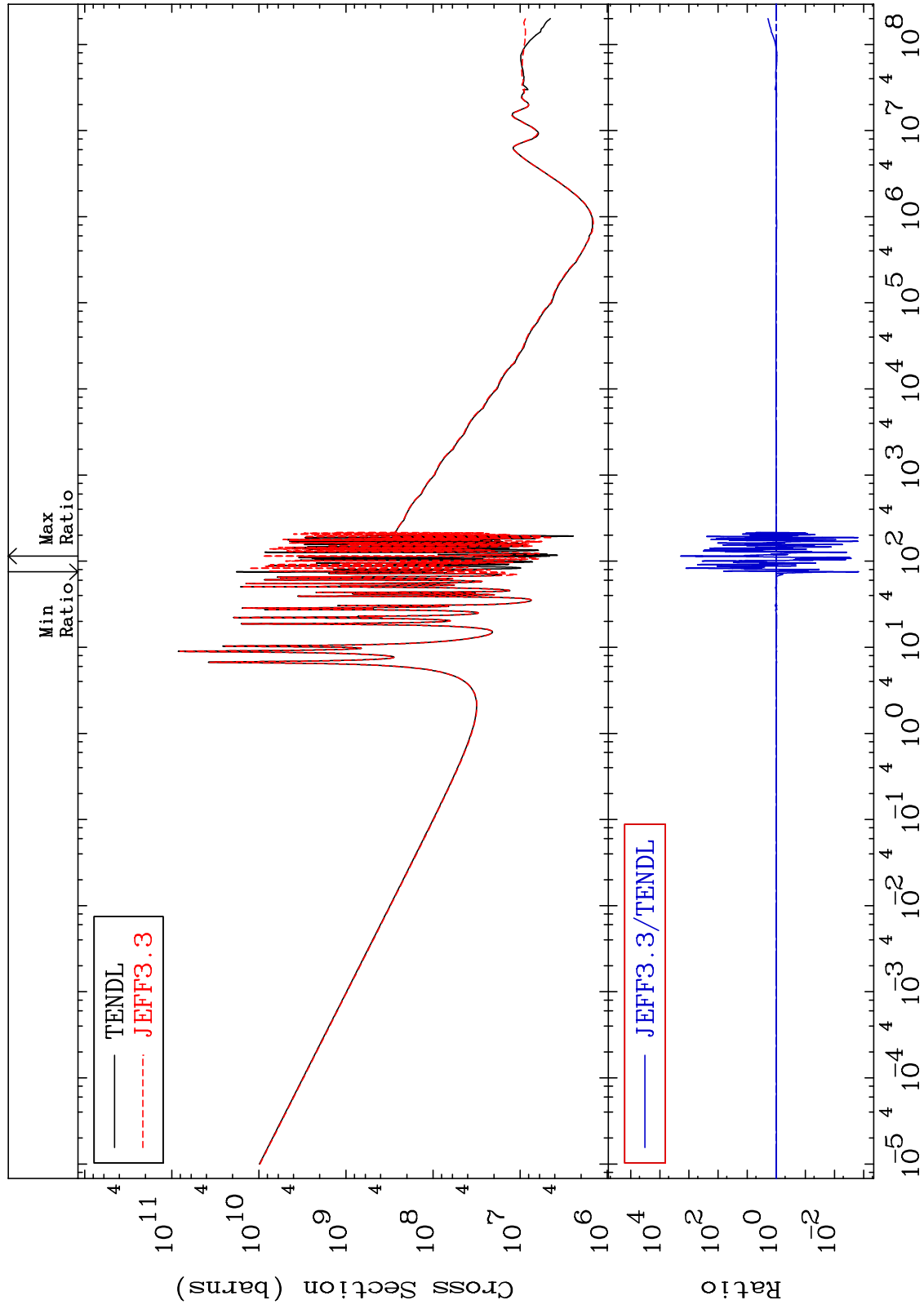
Incident Energy (eV)

76-0s-189

MAT 7640

Total photon (eV-barns)
Cross Section

76-0s-189
-99.85 To 9999. %

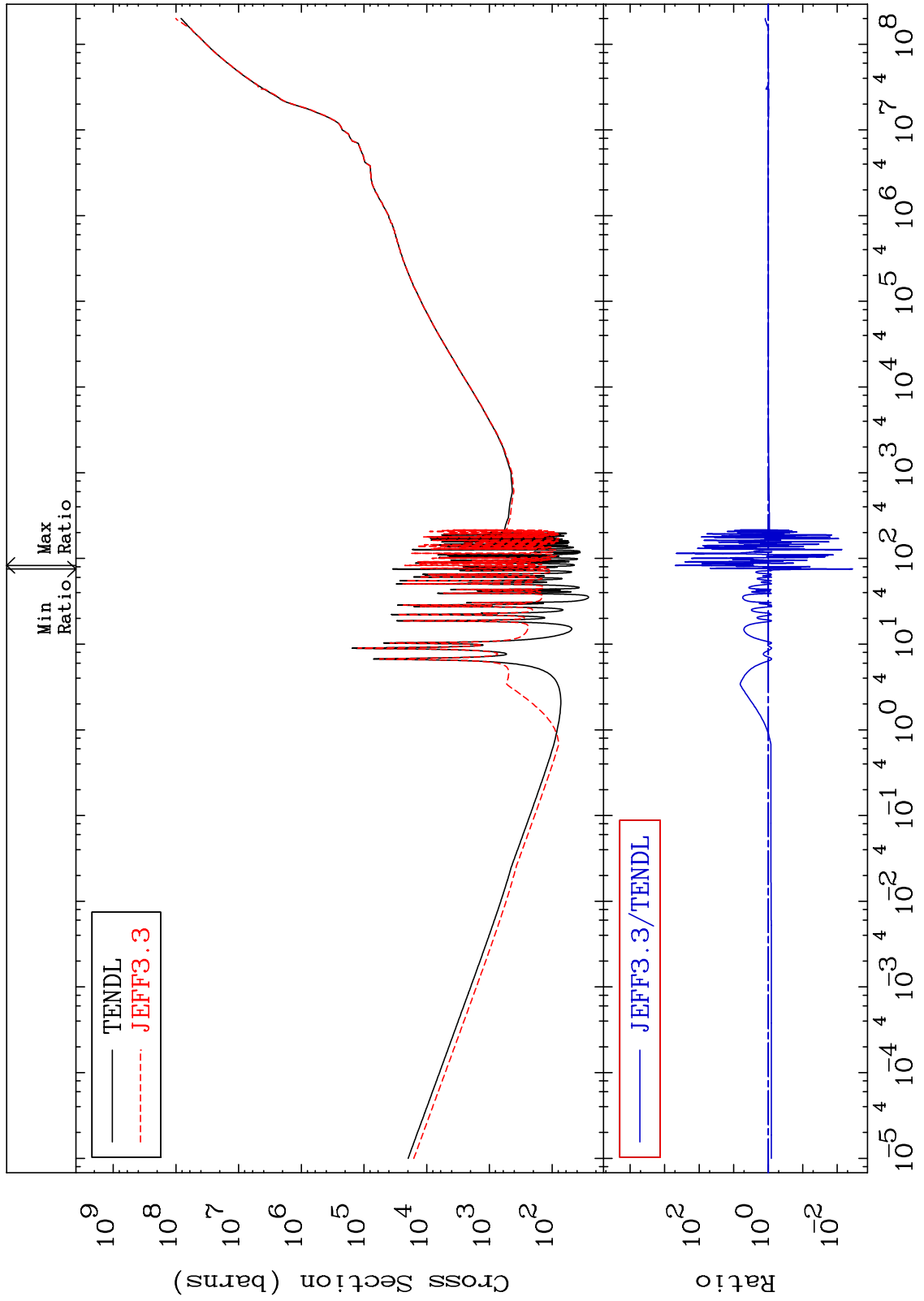


73

Incident Energy (eV)

76-0s-189

MAT 7640 Total kinematic kerma (high limit) 76-0s-189
Cross Section -99.64 To 9999. %



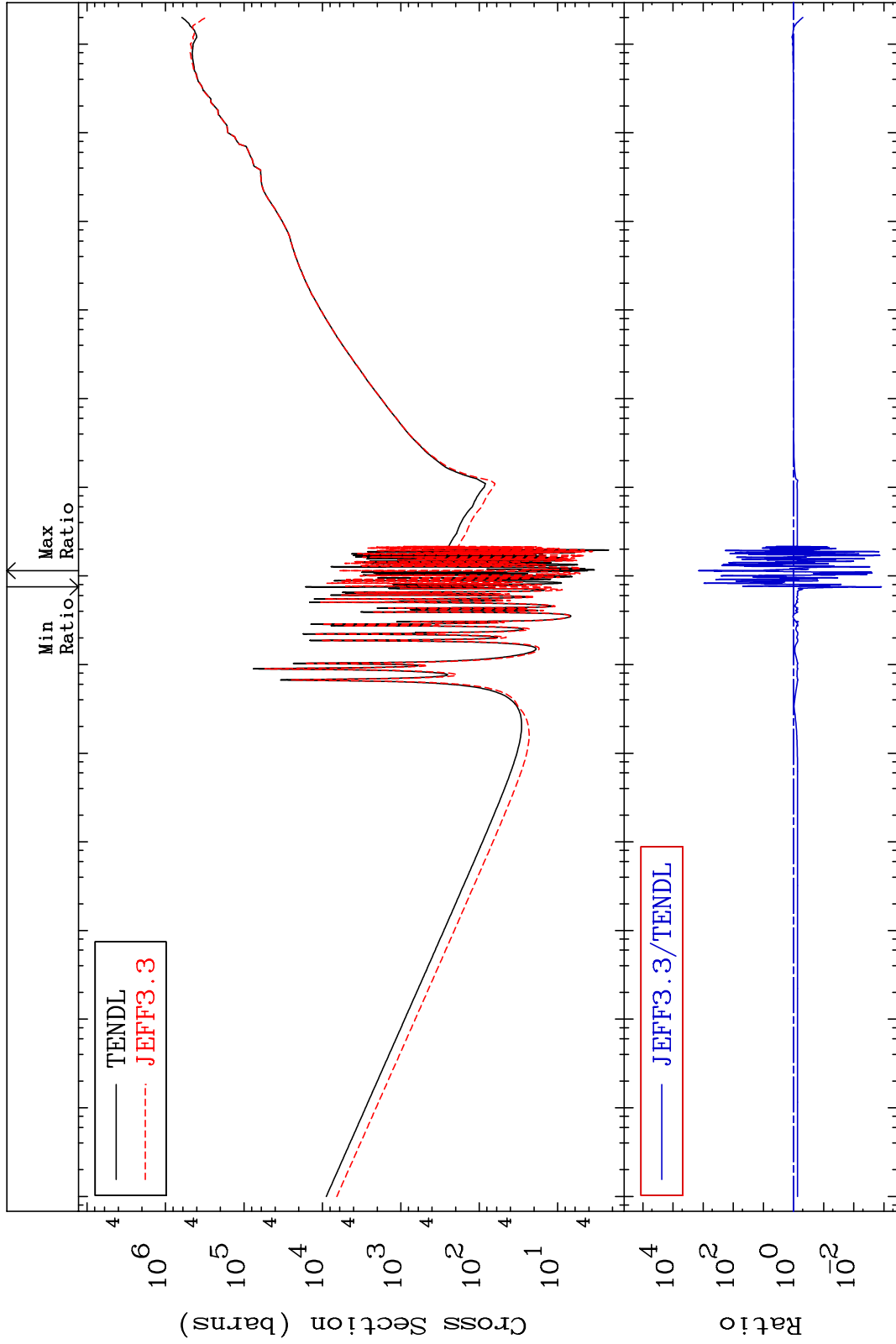
MAT 7640

Dpa total (eV-barns)

76-0s-189

-99.88 To 9999. %

Cross Section



Incident Energy (eV)

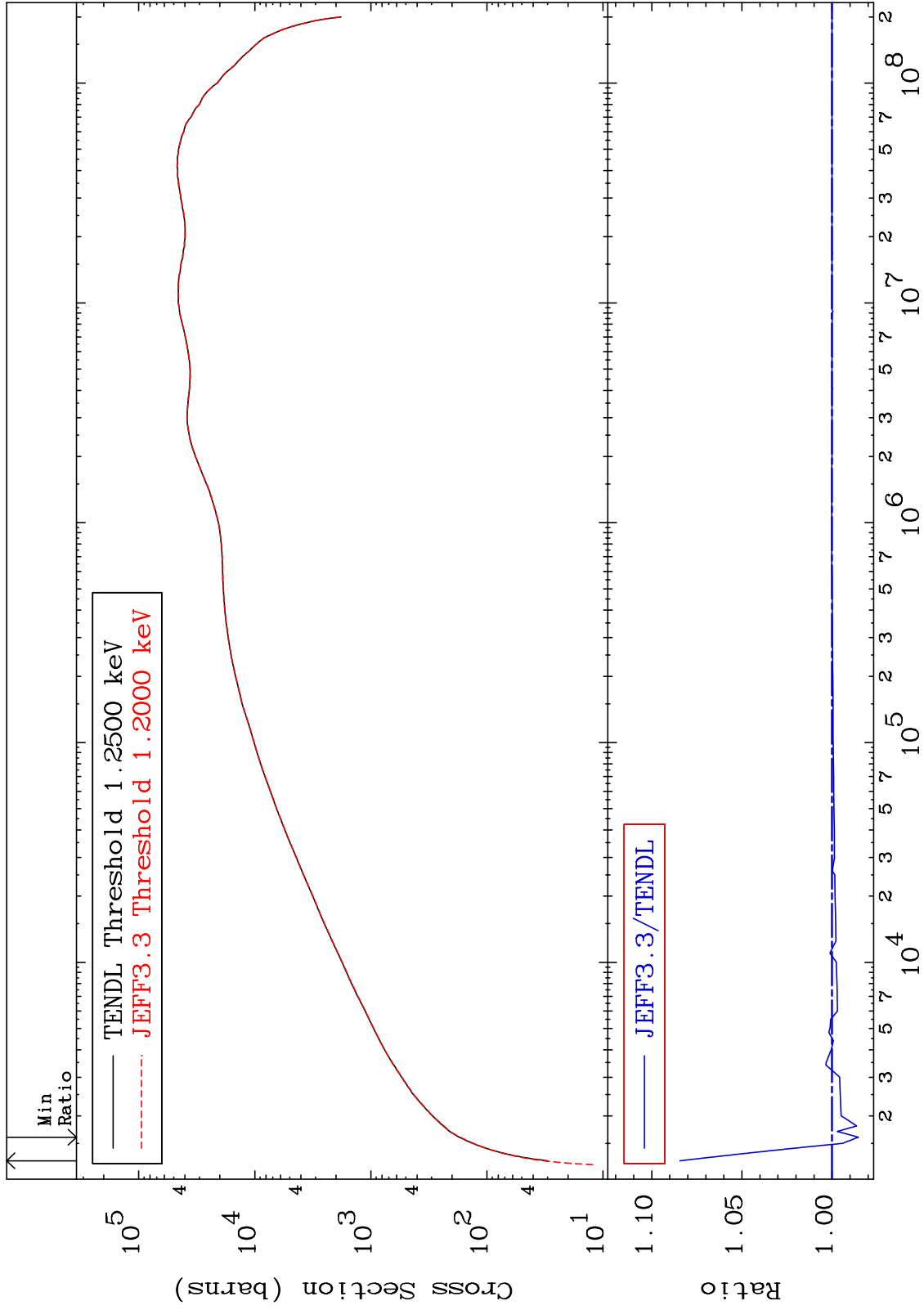
75

76-0s-189

MAT 7640

Dpa elastic (mt2)
Cross Section

76-0s-189
-1.463 To 8.431 %



76

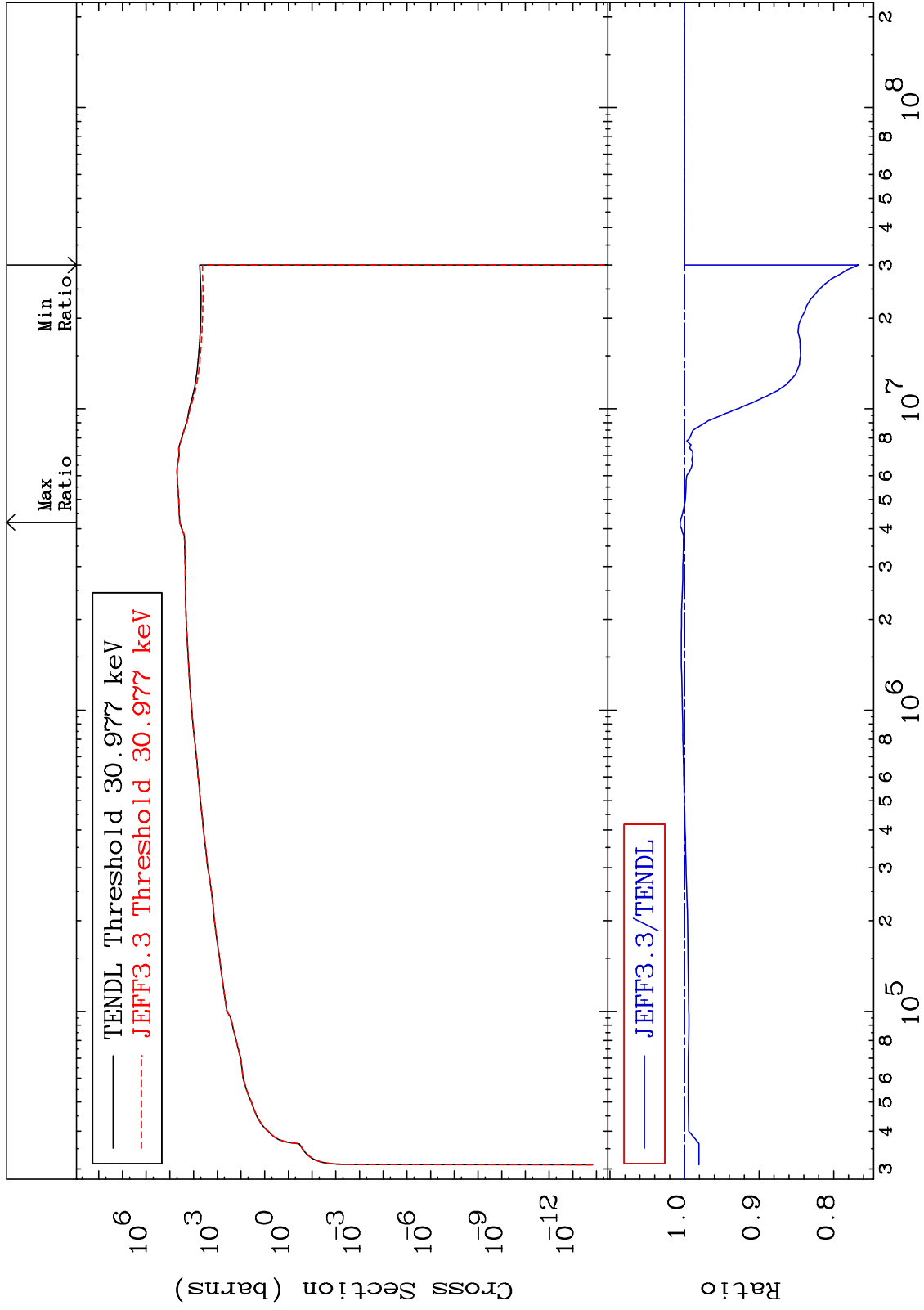
Incident Energy (eV)

76-0s-189

MAT 7640

Dpa inelastic (mt51-91)
Cross Section

76-0s-189
-23.32 To 0.608 %



77

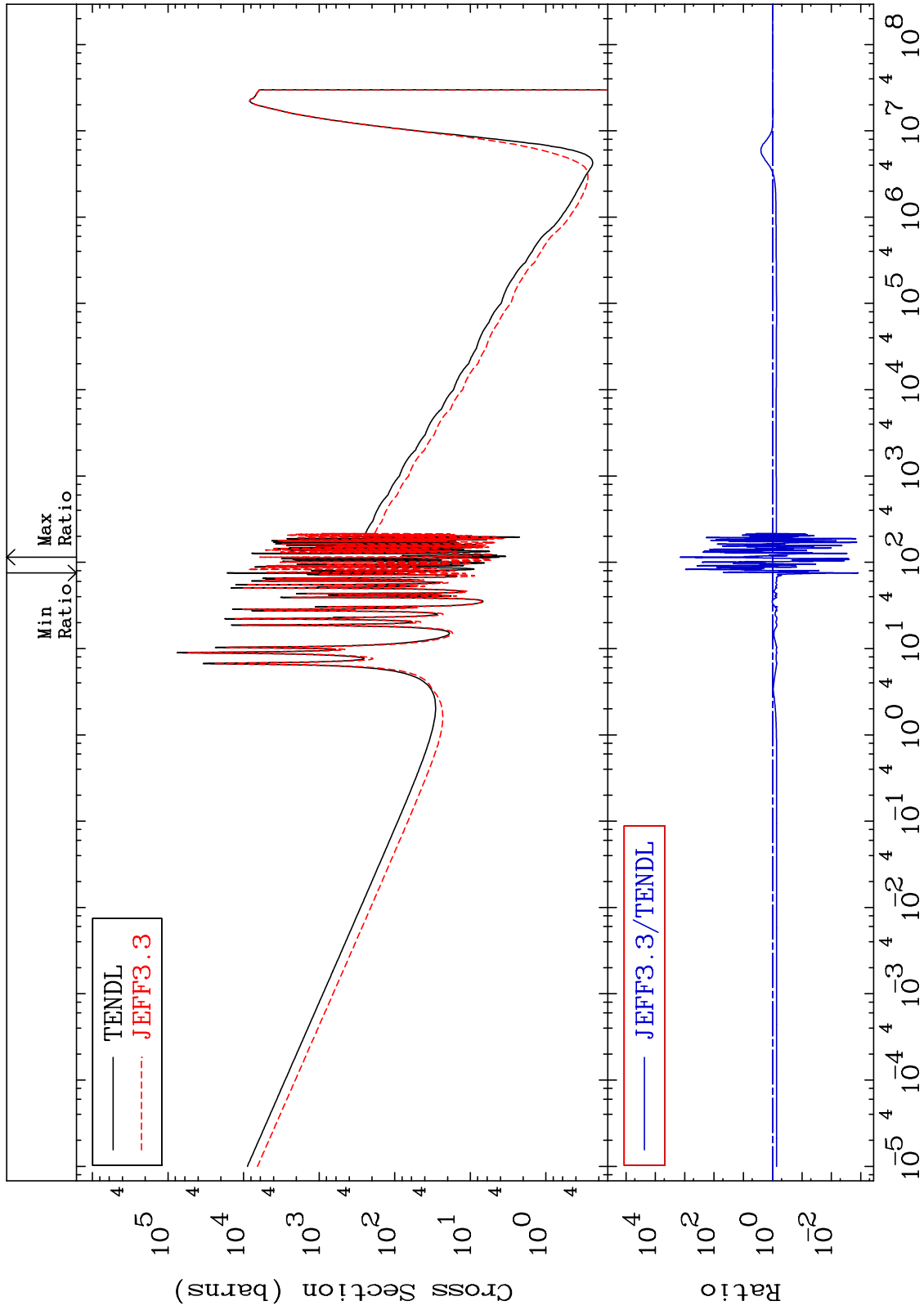
Incident Energy (eV)

76-0s-189

MAT 7640

Dpa disappearance (mt102 -120)
Cross Section

76-0s-189
-99.88 To 9999. %



78

Incident Energy (eV)

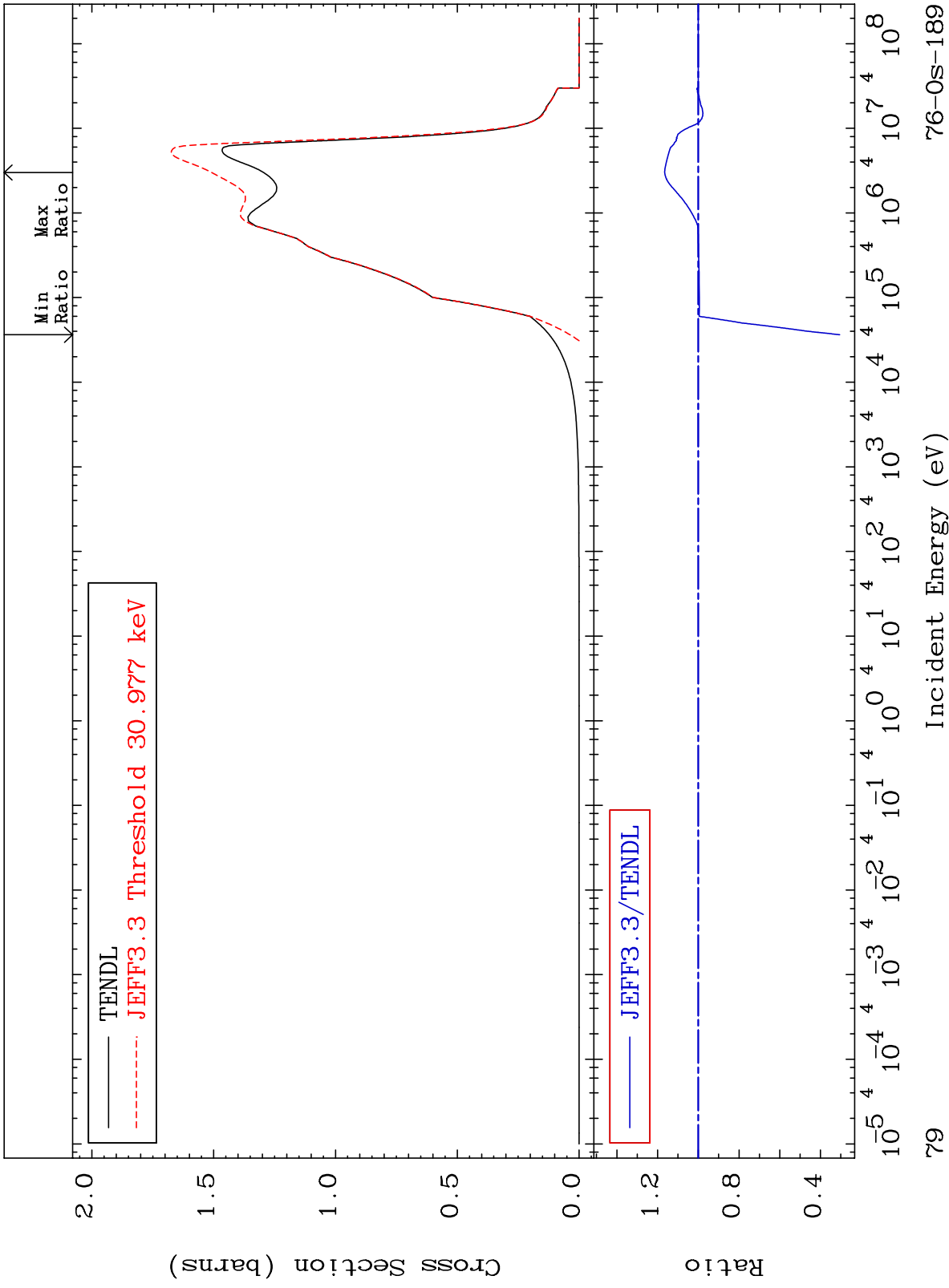
76-0s-189

MAT 7640

Inelastic: 76-0s-189g

76-0s-189

Radionuclide Production Cross Section -69.46 To 16.48 %

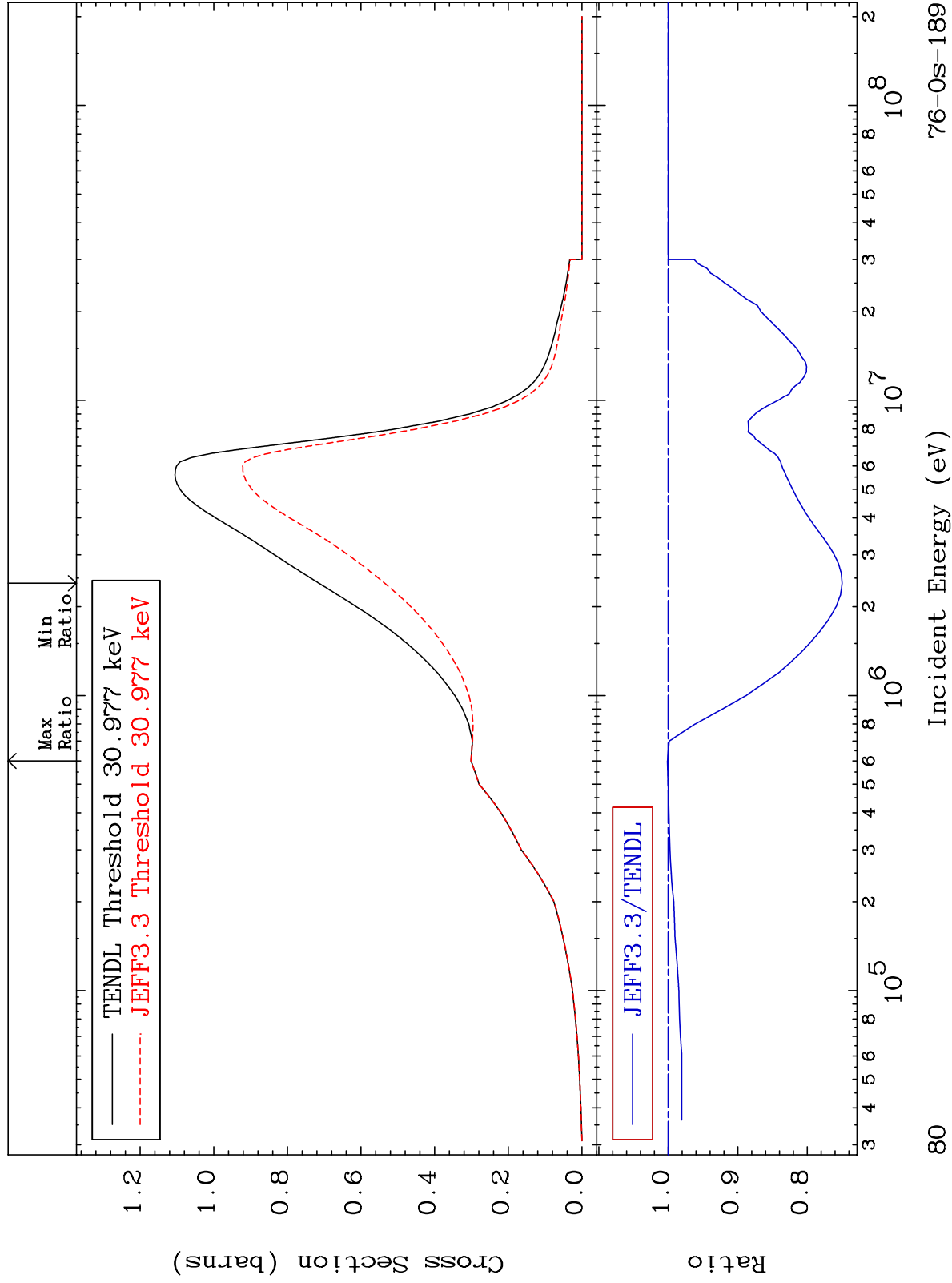


MAT 7640

Inelastic: 76-0s-189m1

76-0s-189

Radionuclide Production Cross Section -25.01 To 0.121 %

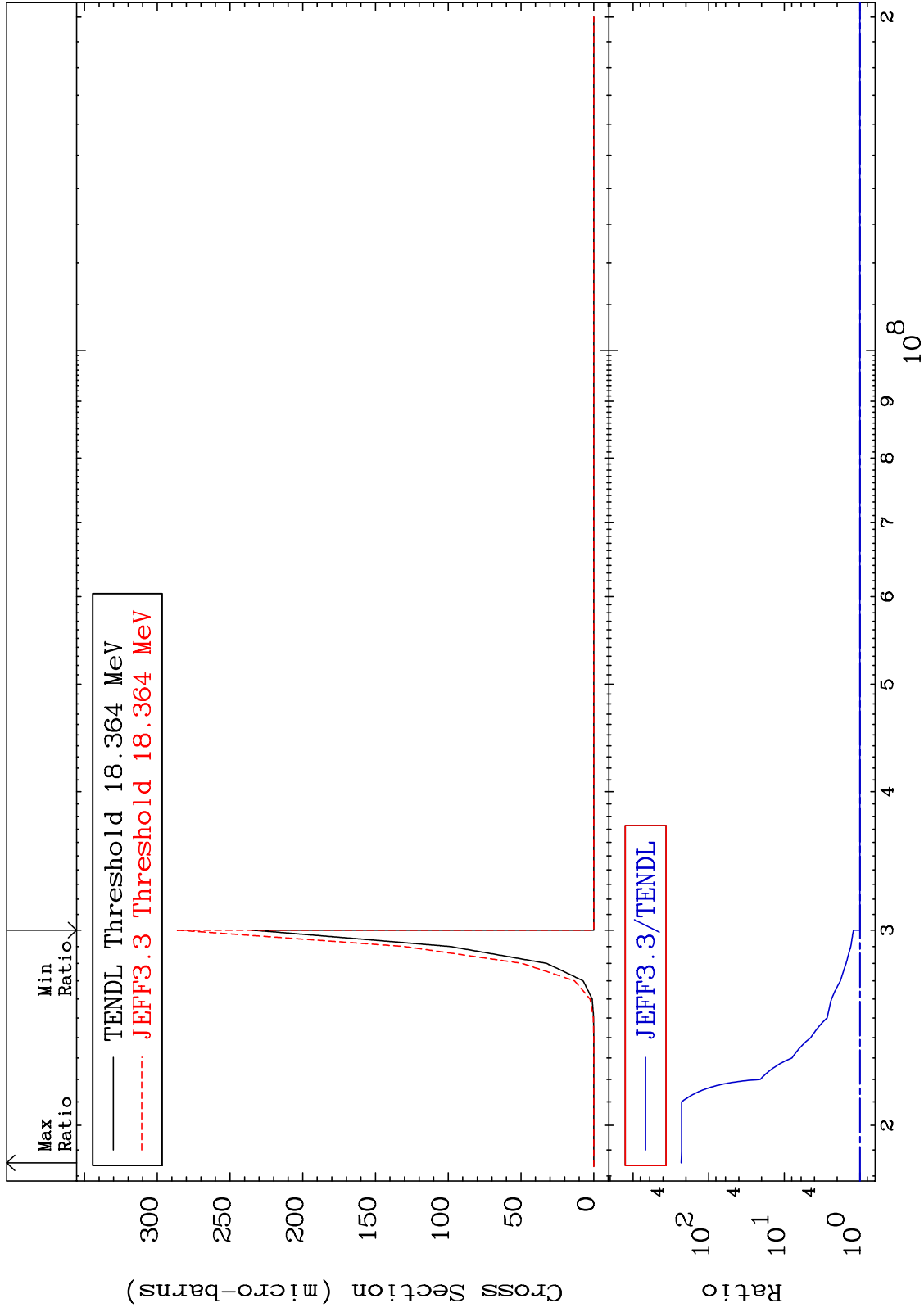


MAT 7640

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

76-0s-189

Radionuclide Production Cross Section 0.000 To 9999. %

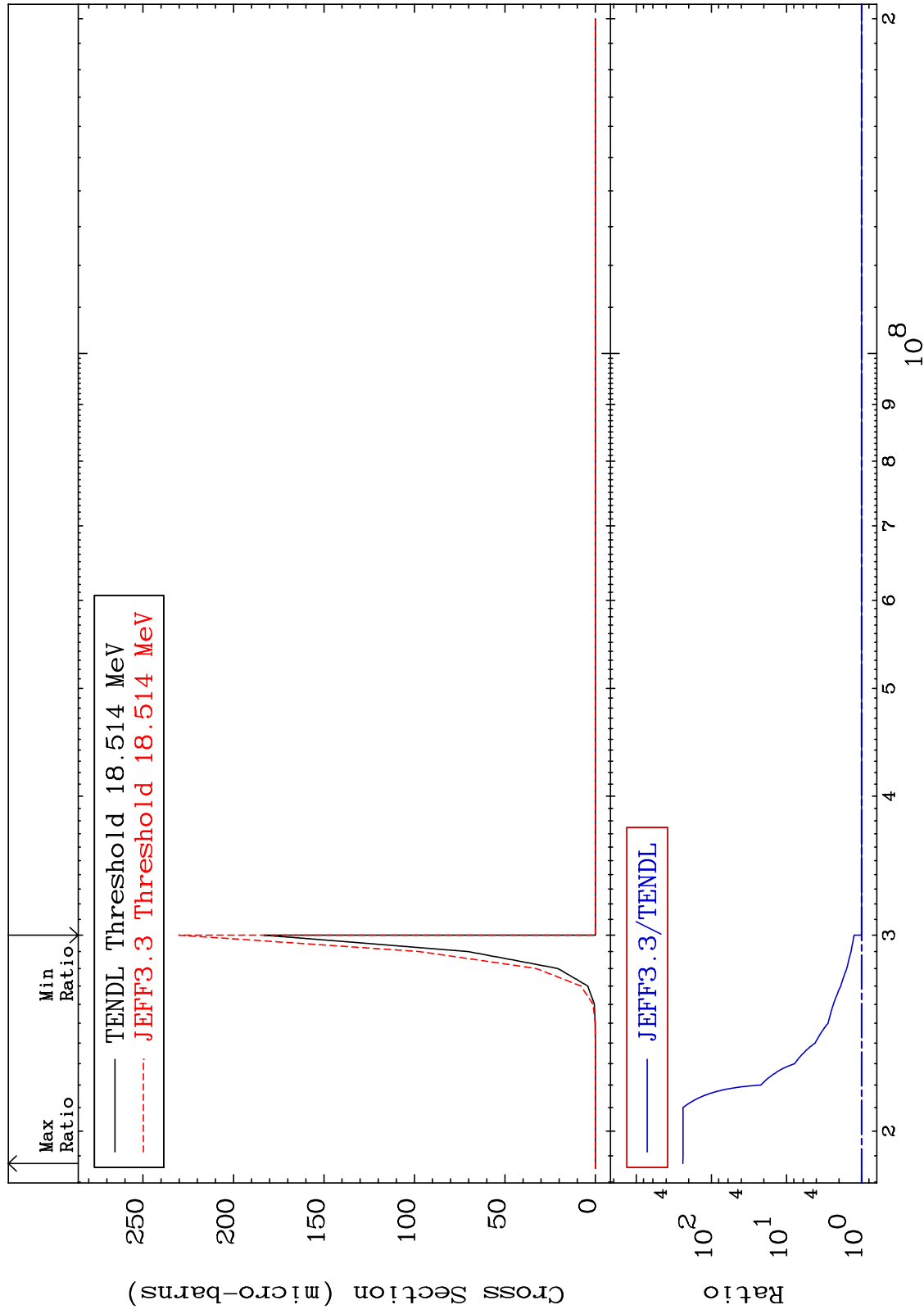


MAT 7640

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

76-0s-189

Radionuclide Production Cross Section 0.000 To 9999. %



82

Incident Energy (eV)

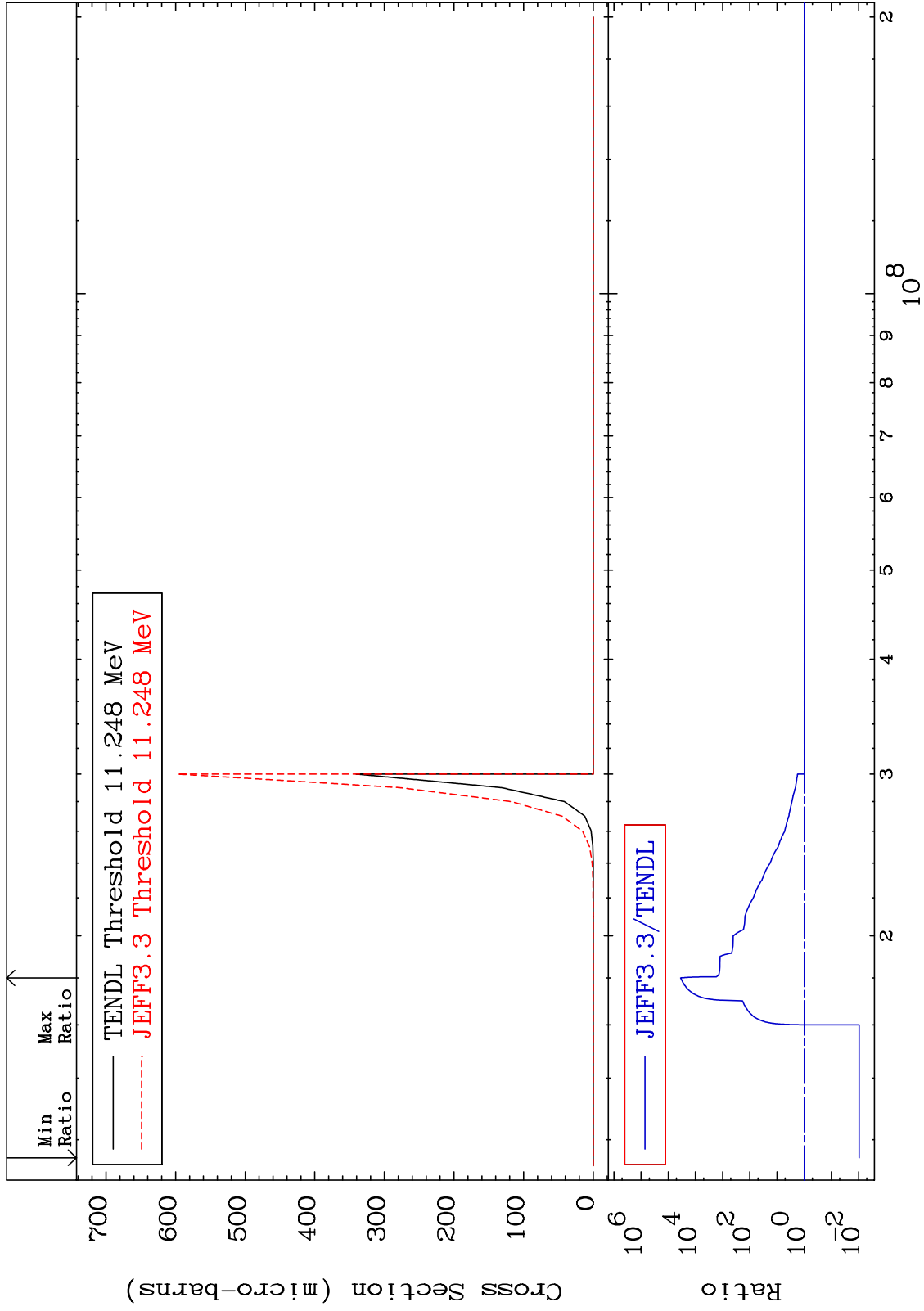
76-0s-189

MAT 7640

(n,3n) α :74-W -183g

76-0s-189

Radionuclide Production Cross Section -99.05 To 9999. %

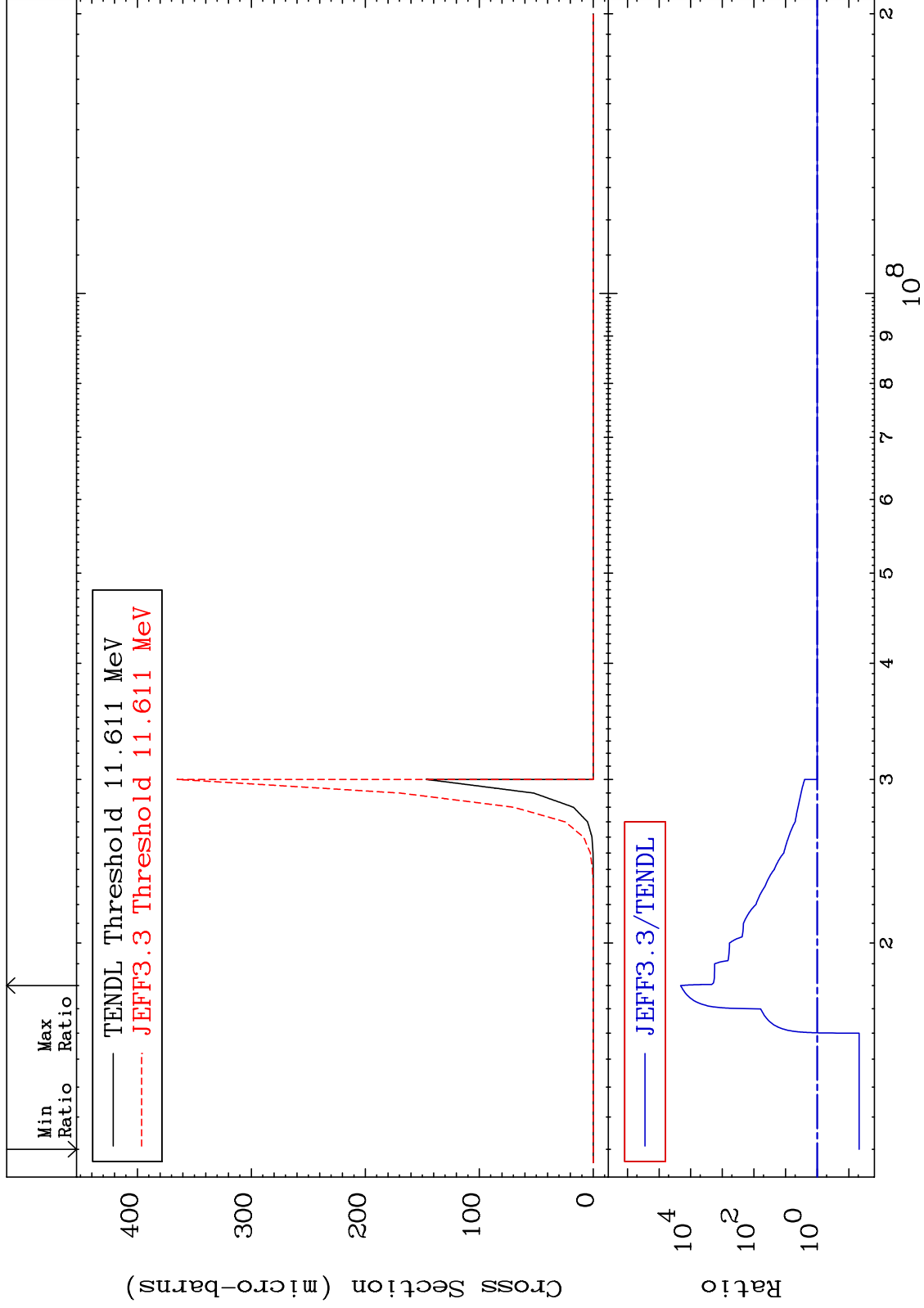


MAT 7640

(n,3n) α :74-W -183m7

76-0s-189

Radionuclide Production Cross Section -95.31 To 9999. %

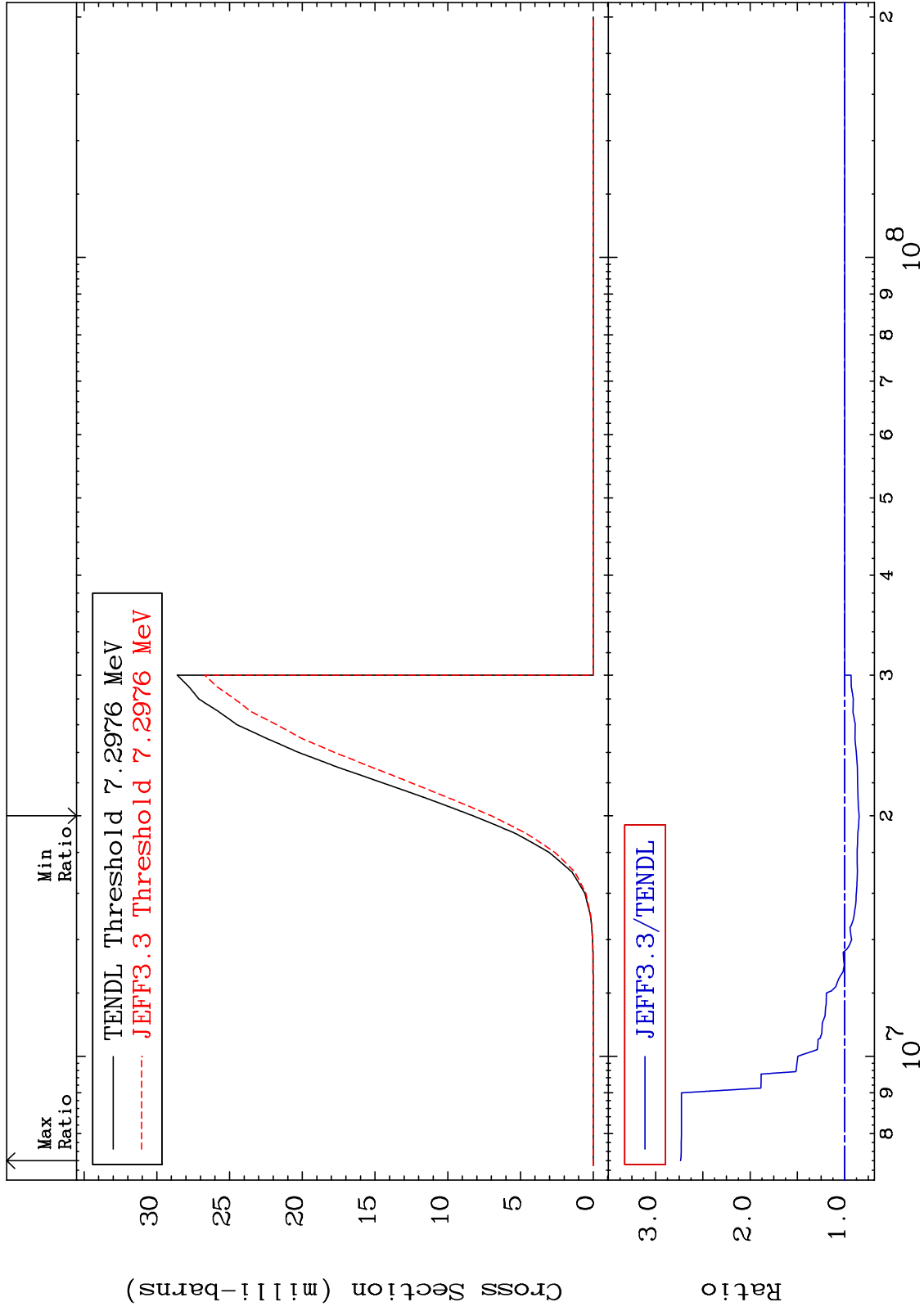


MAT 7640

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

76-Os-189

Radionuclide Production Cross Section -15.26 To 173.5 %



85

Incident Energy (eV)

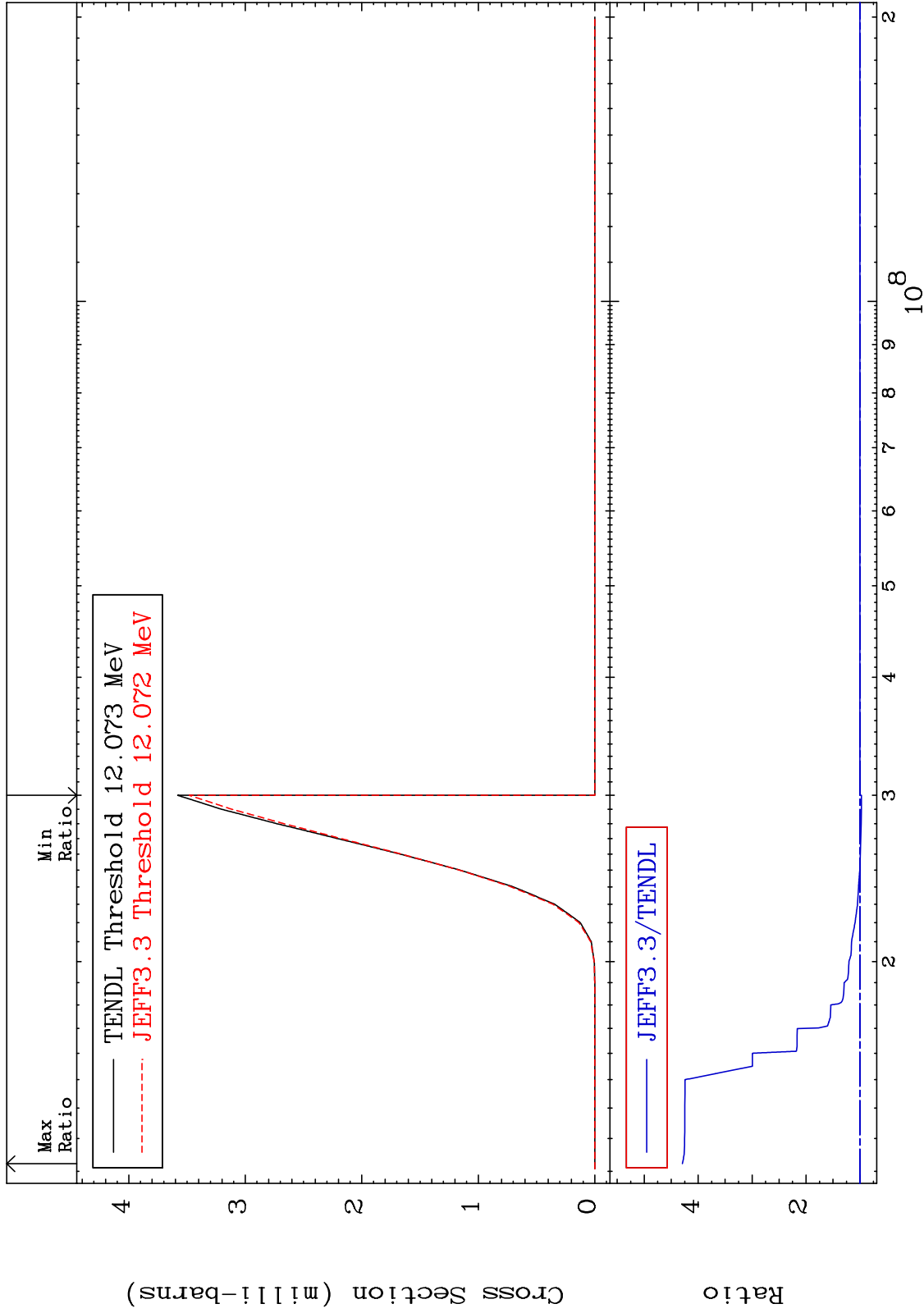
76-Os-189

MAT 7640

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

76-0s-189

Radionuclide Production Cross Section -2.775 To 329.1 %

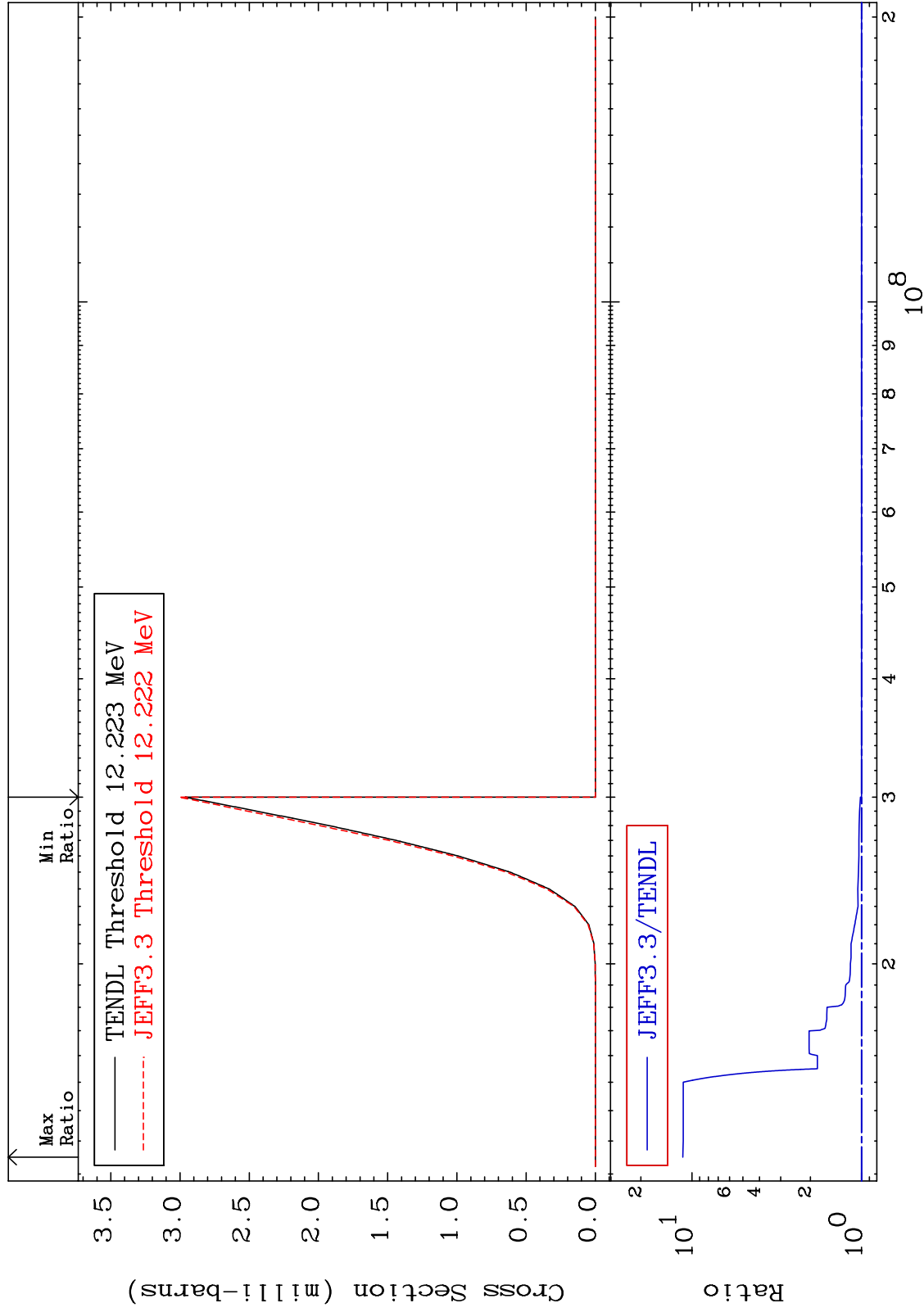


MAT 7640

(n, n') t:75-Re-186m4

76-0s-189

Radionuclide Production Cross Section 0.000 To 1031. %

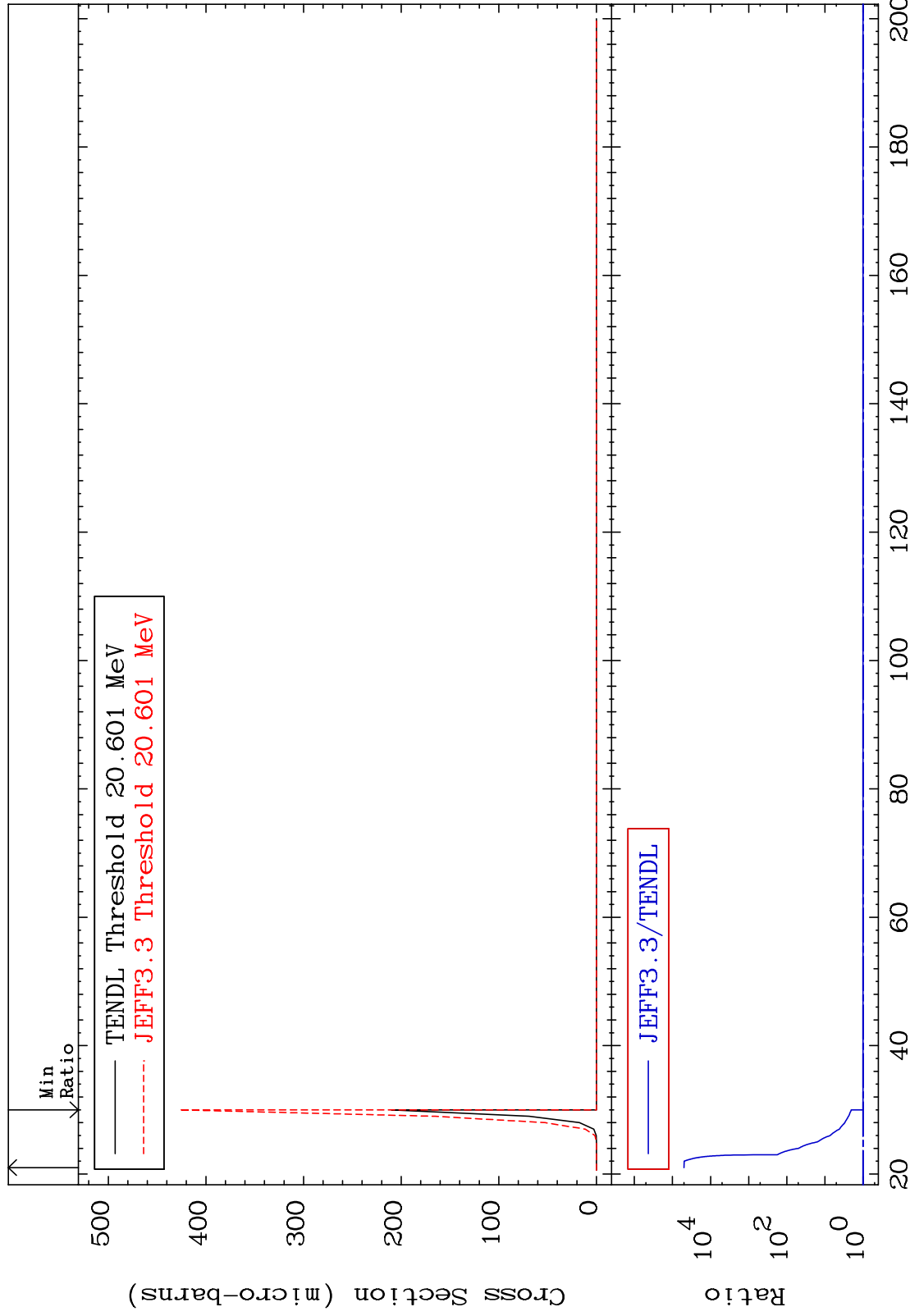


MAT 7640

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

76-0s-189

Radionuclide Production Cross Section 0.000 To 9999. %



88

Incident Energy (MeV)

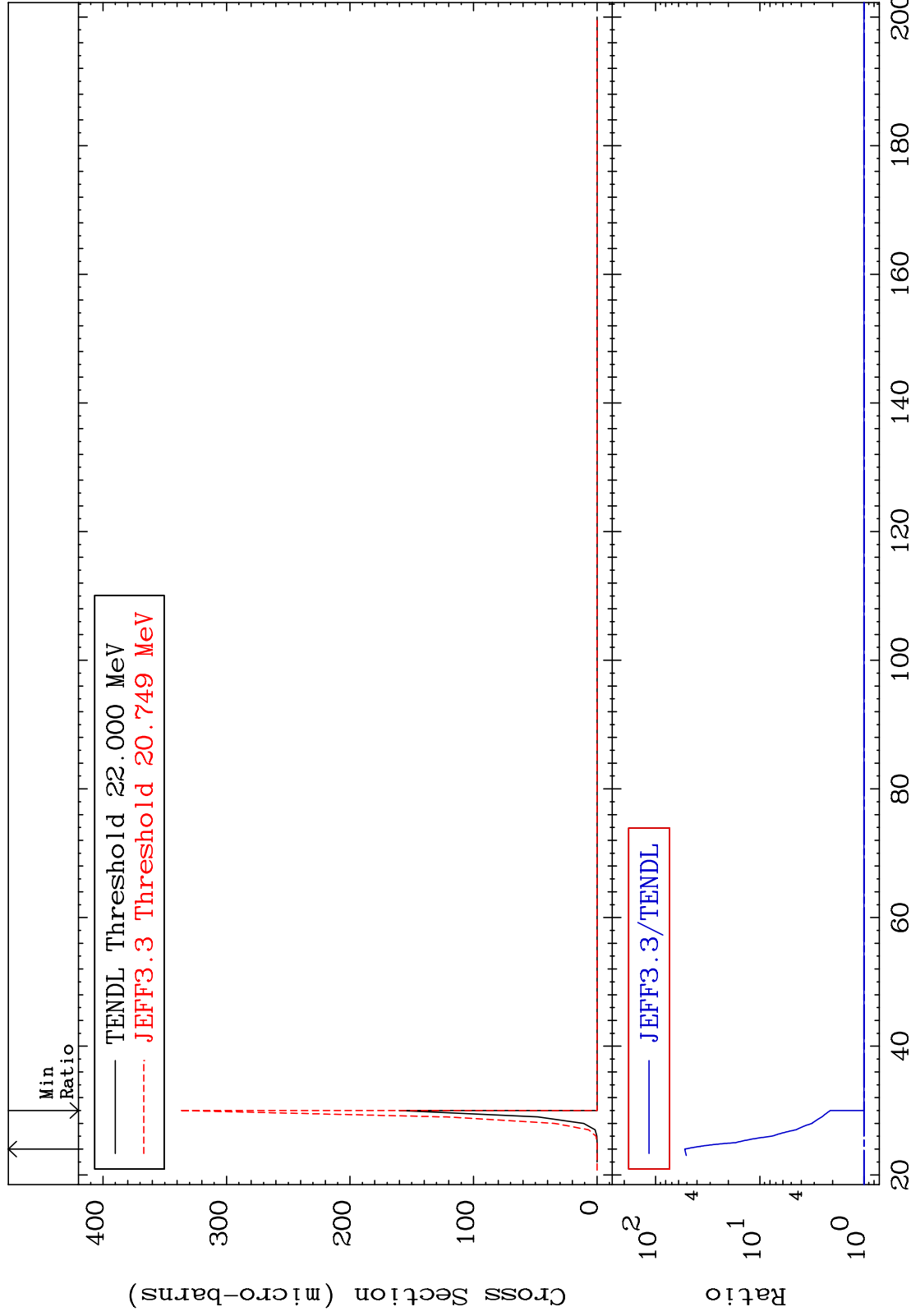
76-0s-189

MAT 7640

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

76-0s-189

Radionuclide Production Cross Section 0.000 To 5142. %

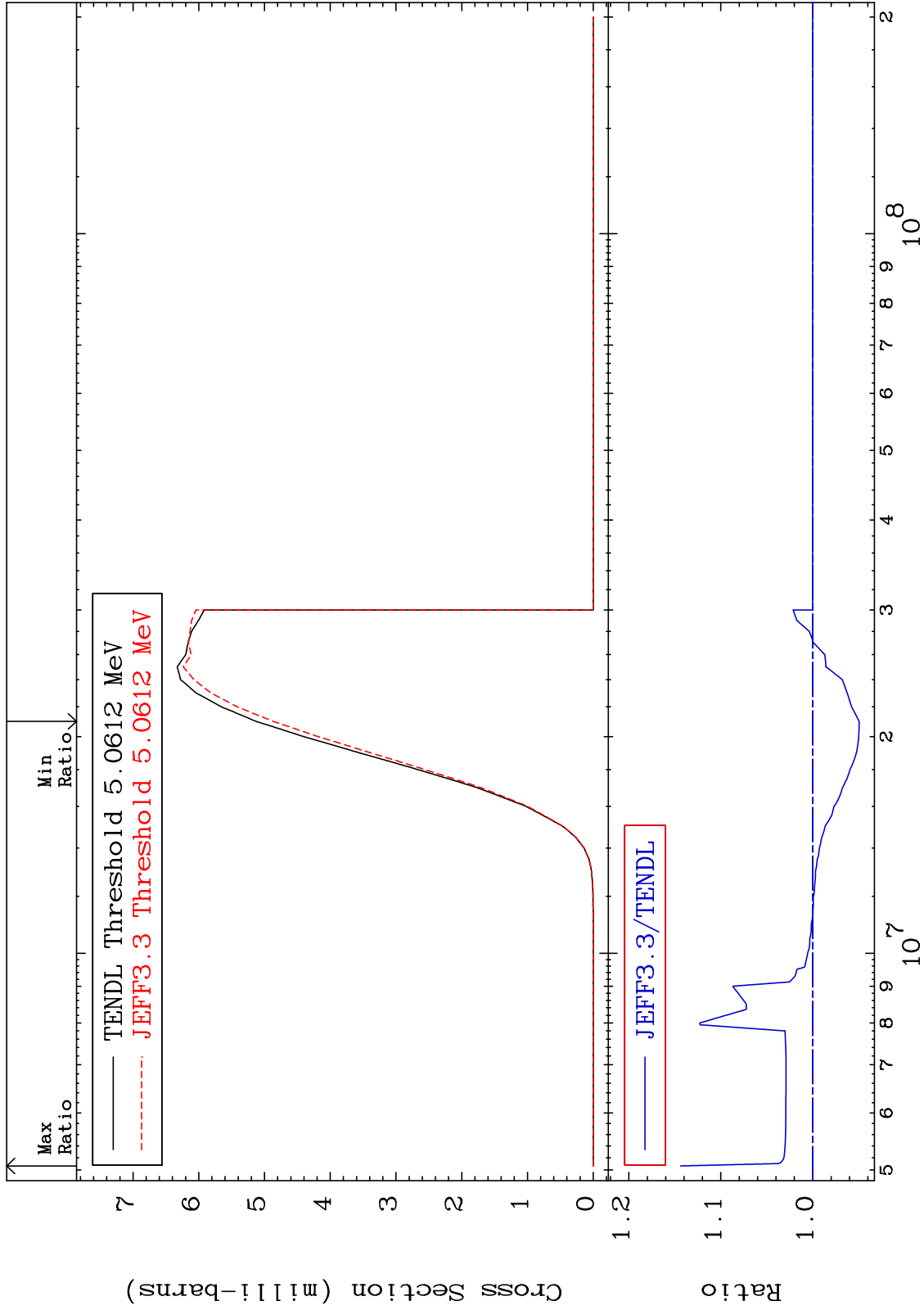


MAT 7640

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

76-0s-189

Radionuclide Production Cross Section -5.057 To 14.37 %



90

76-0s-189