

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

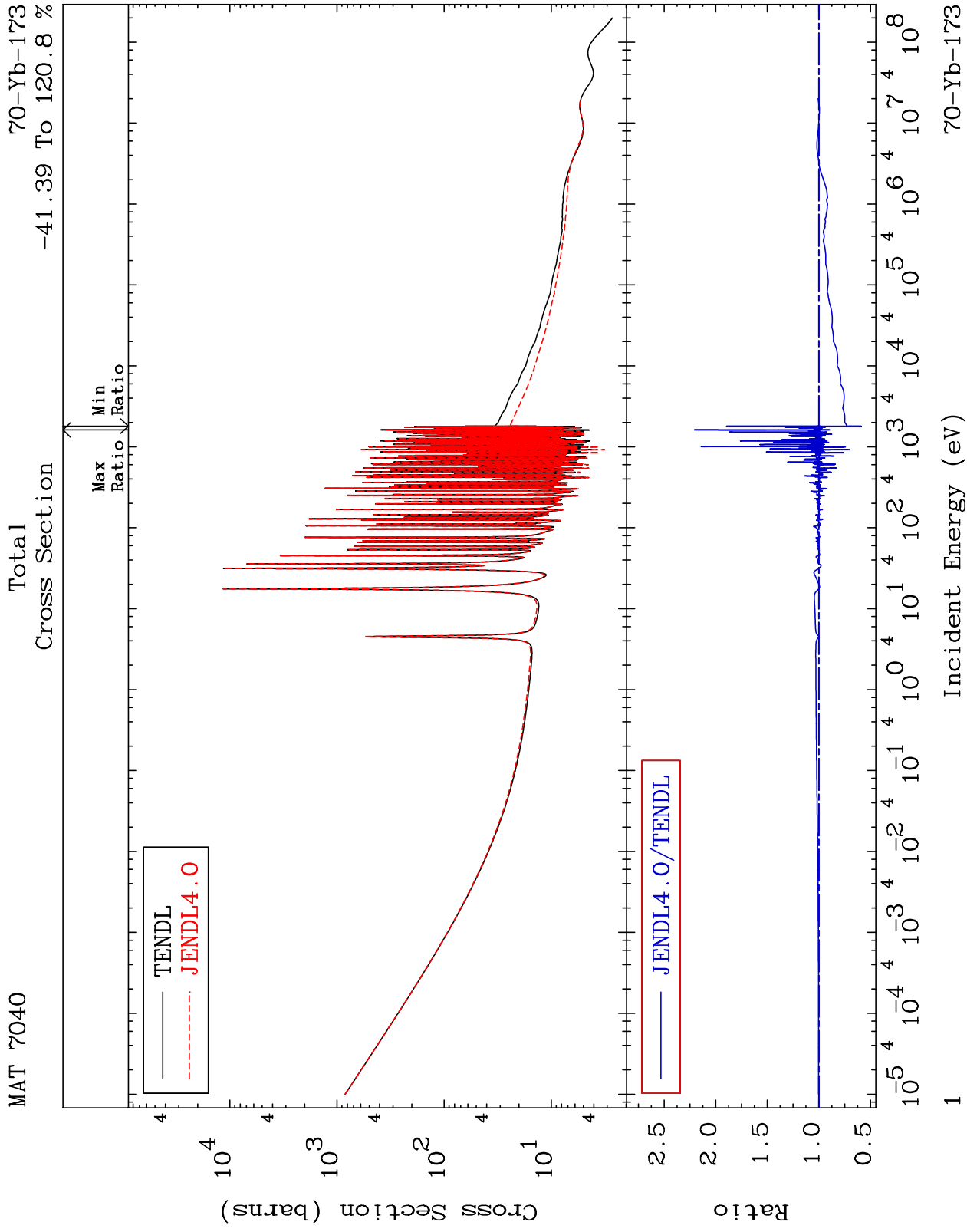
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Livermore, CA 94550

U.S.A.

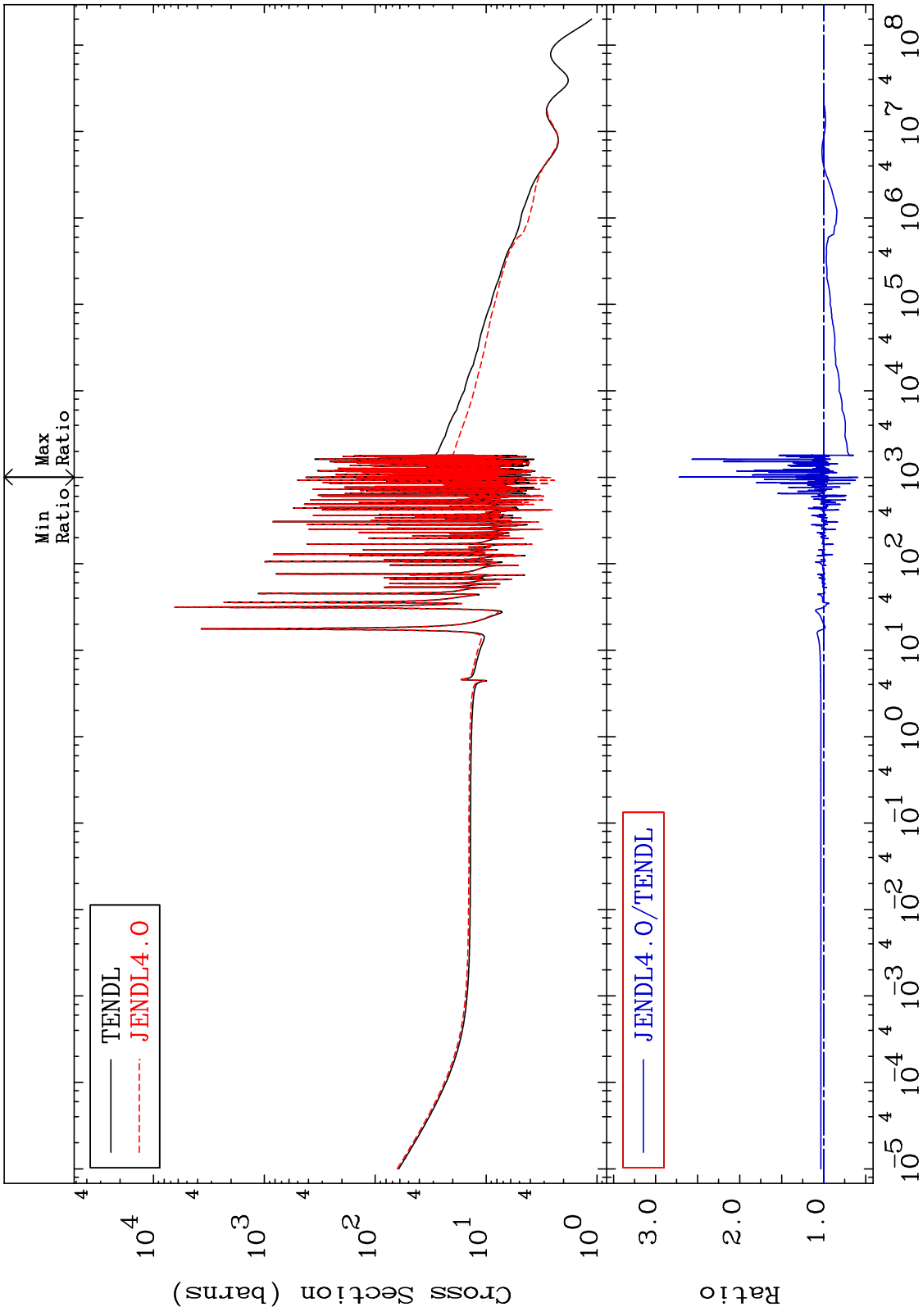
Tele: 925-443-1911

E.Mail: redcullen1@comcast.net
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Press Mouse Button to Start

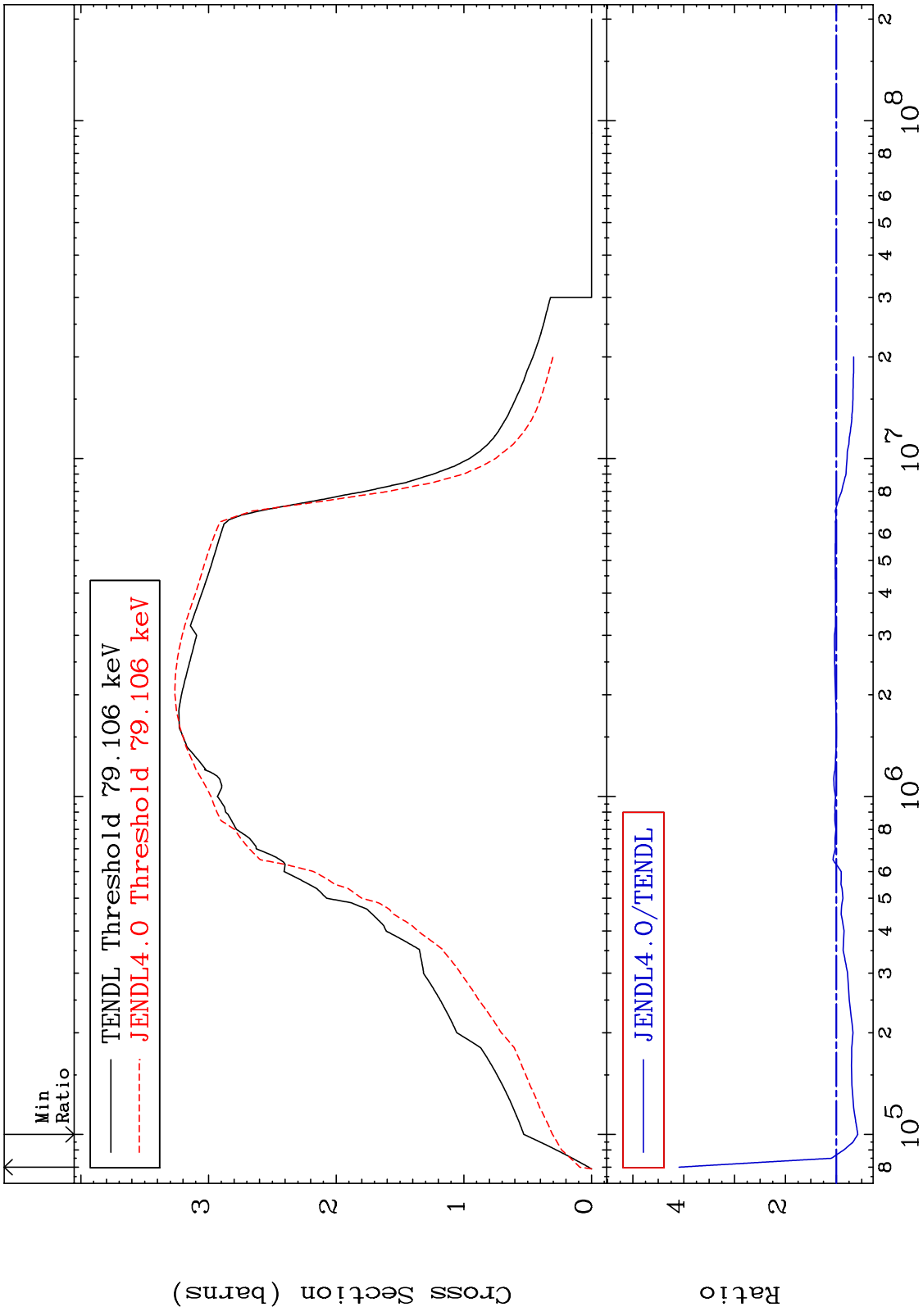


MAT 7040 Elastic Cross Section 70-Yb-173
-40.67 To 172.1 %



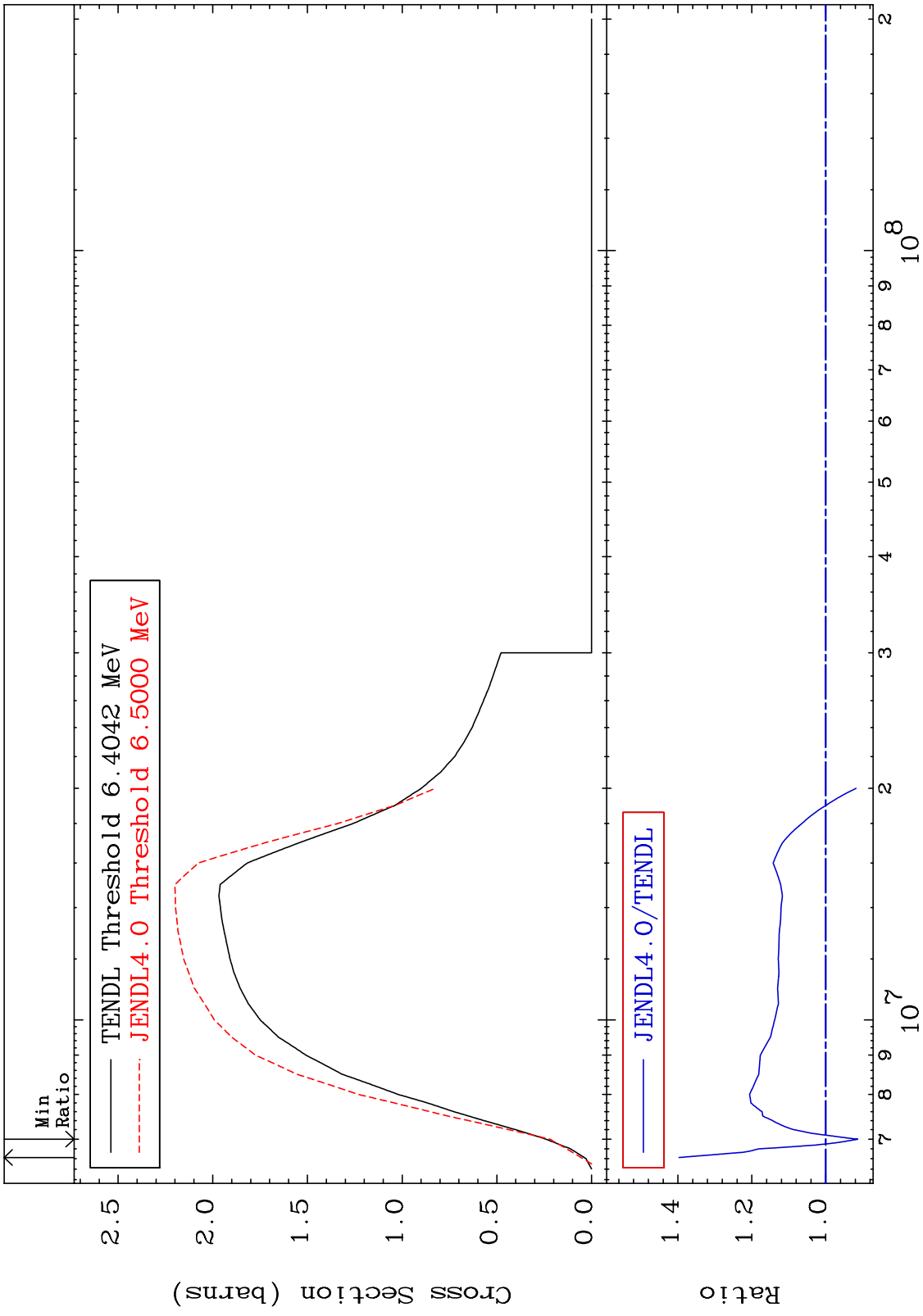
2 70-Yb-173

MAT 7040 Inelastic Cross Section 70-Yb-173 -42.41 To 309.2 %

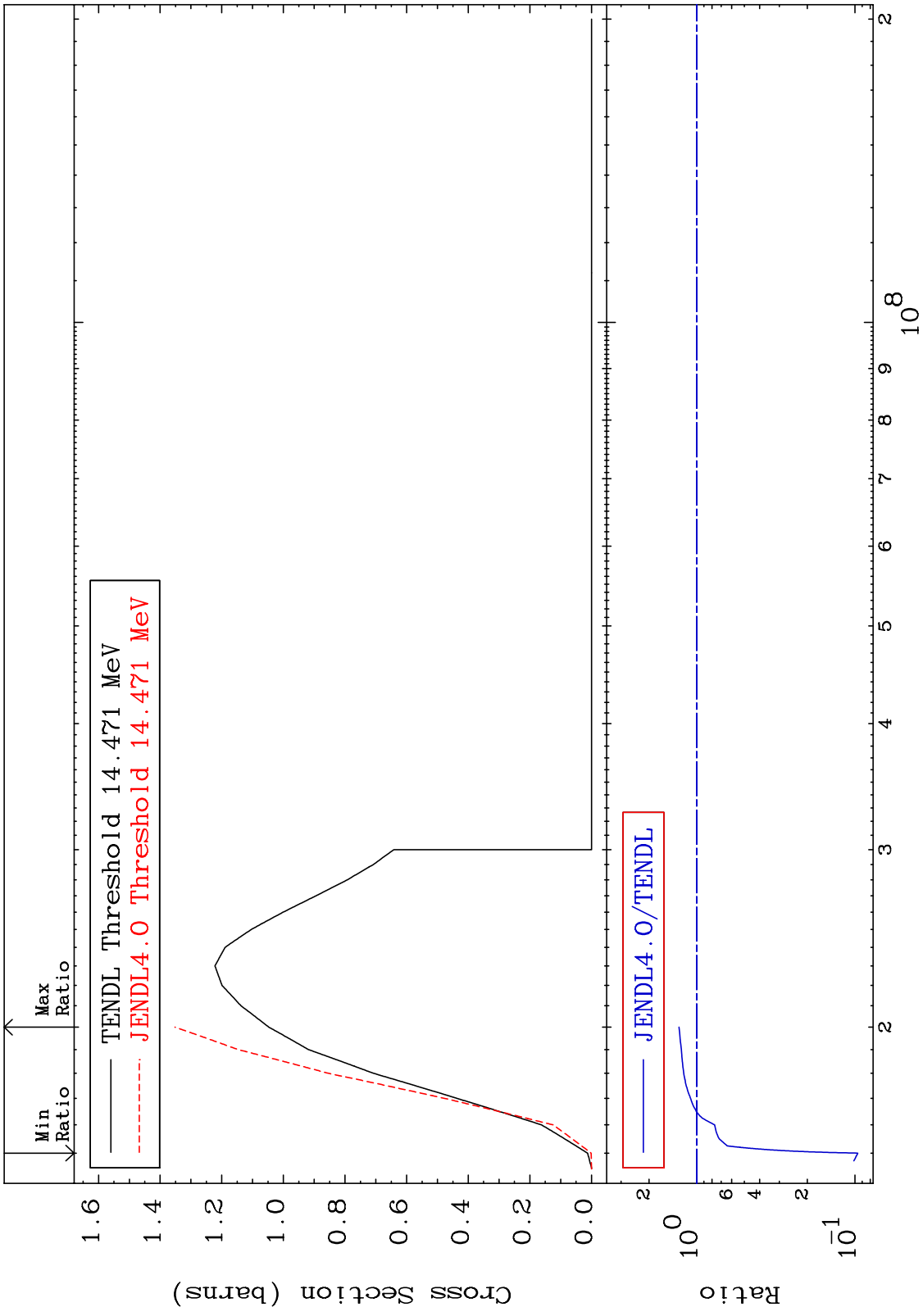


70-Yb-173

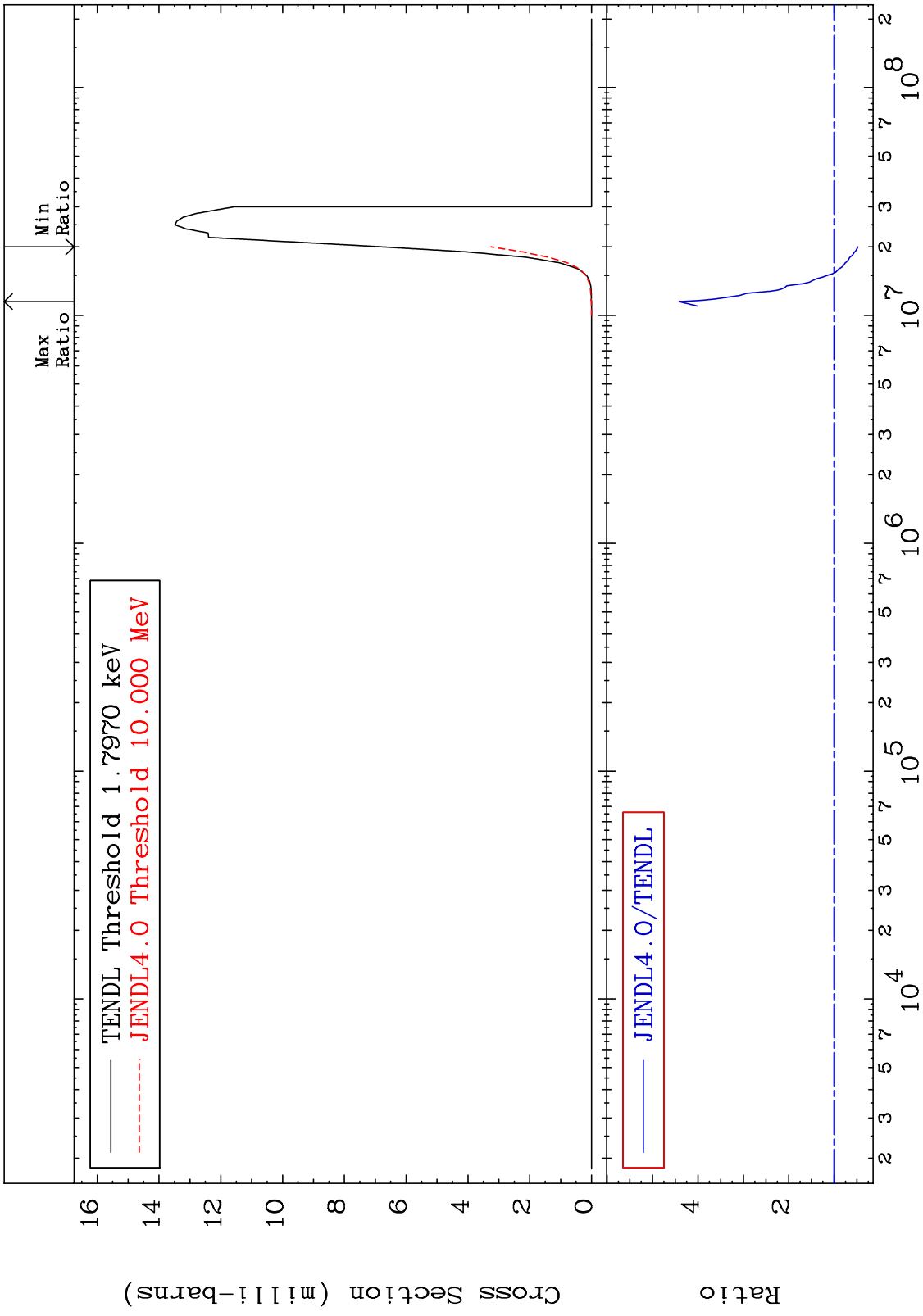
MAT 7040 (n,2n) Cross Section 70-Yb-173 -8.684 To 39.69 %



MAT 7040 (n,3n) 70-Yb-173
 Cross Section -90.41 To 29.08 %

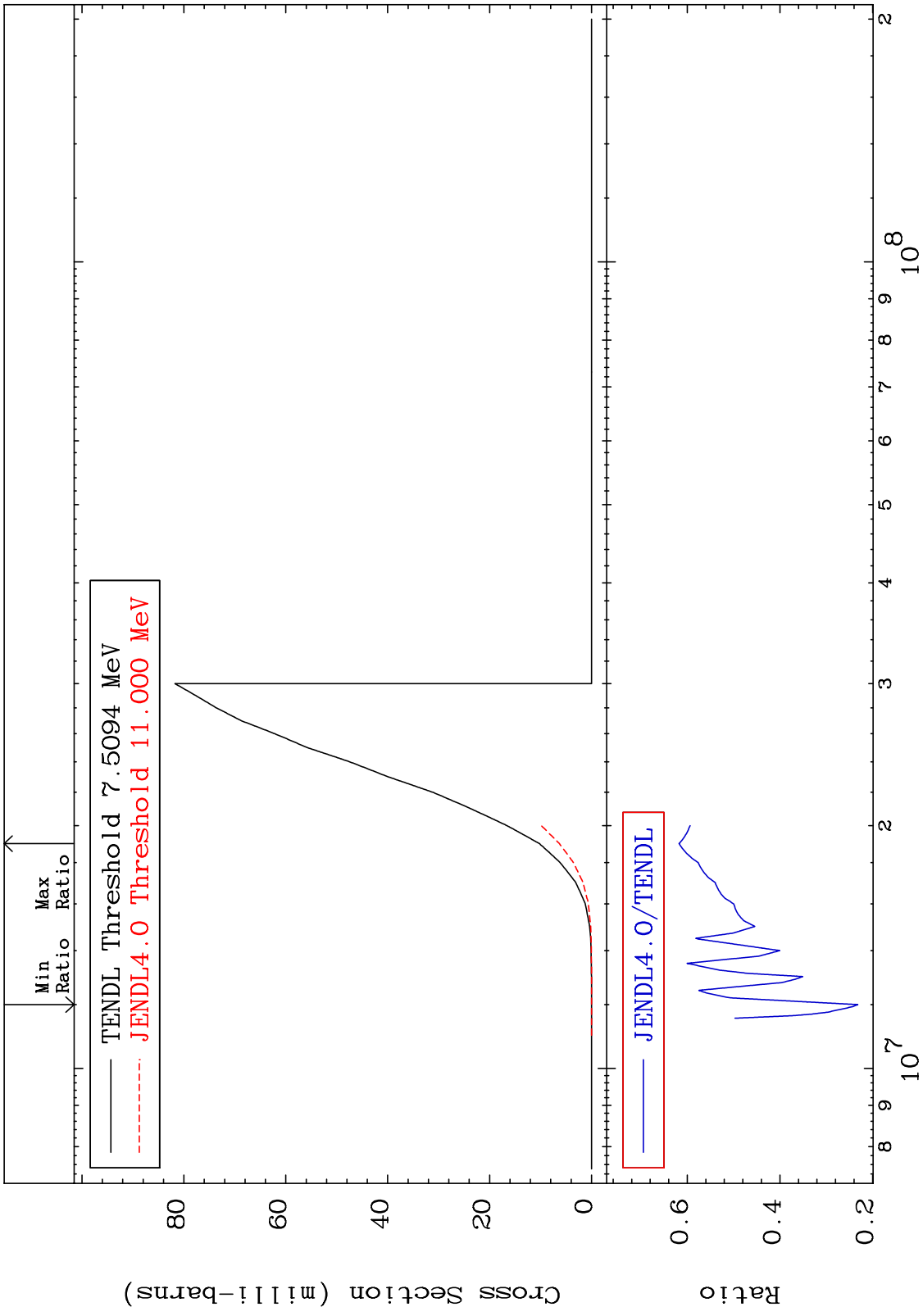


MAT 7040 $(n, n') \alpha$ Cross Section 70-Yb-173
 -52.06 To 341.7 %



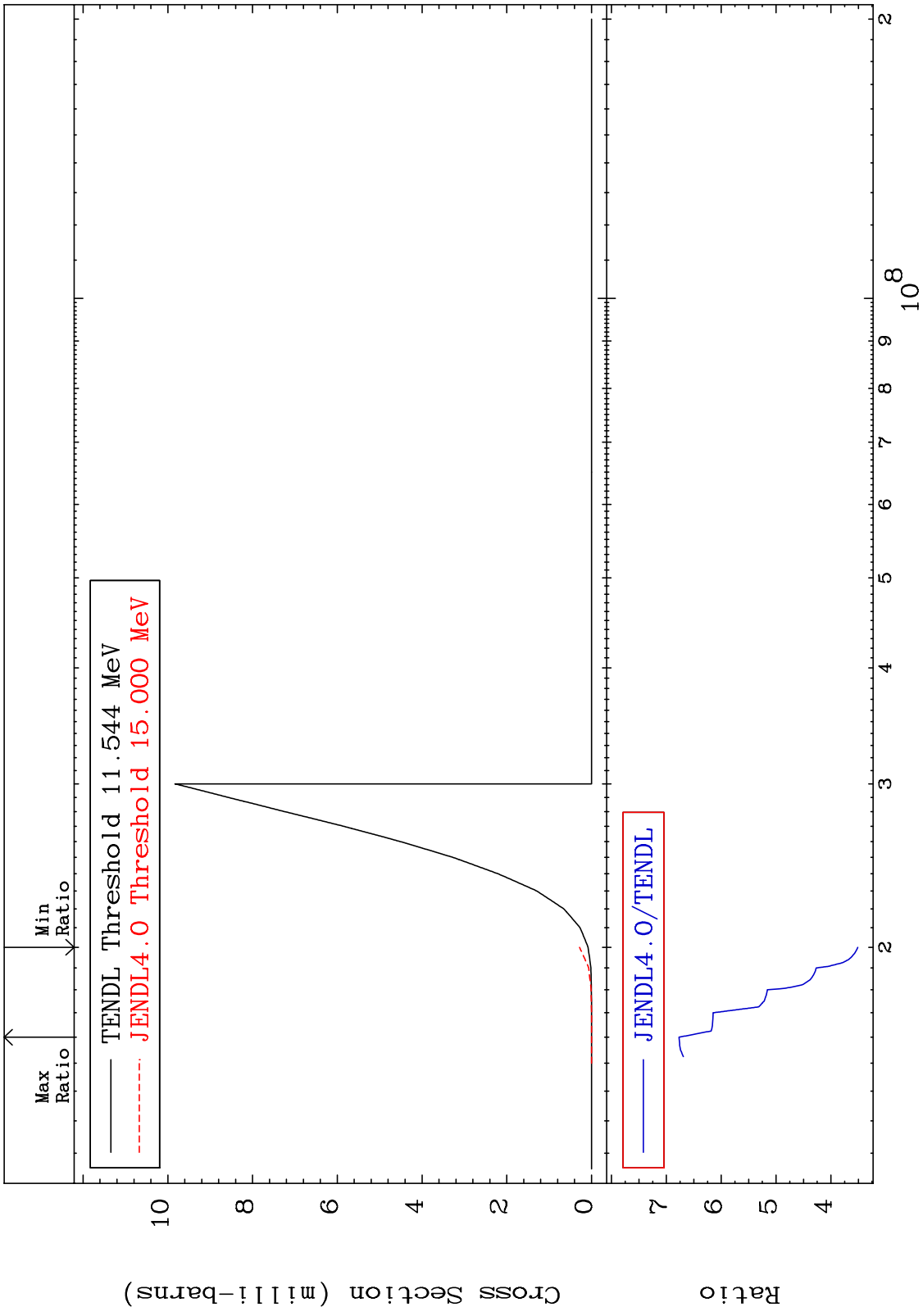
6 70-Yb-173

MAT 7040 (n, n') p $^{70}\text{Yb}-173$
Cross Section -76.82 To -38.23%

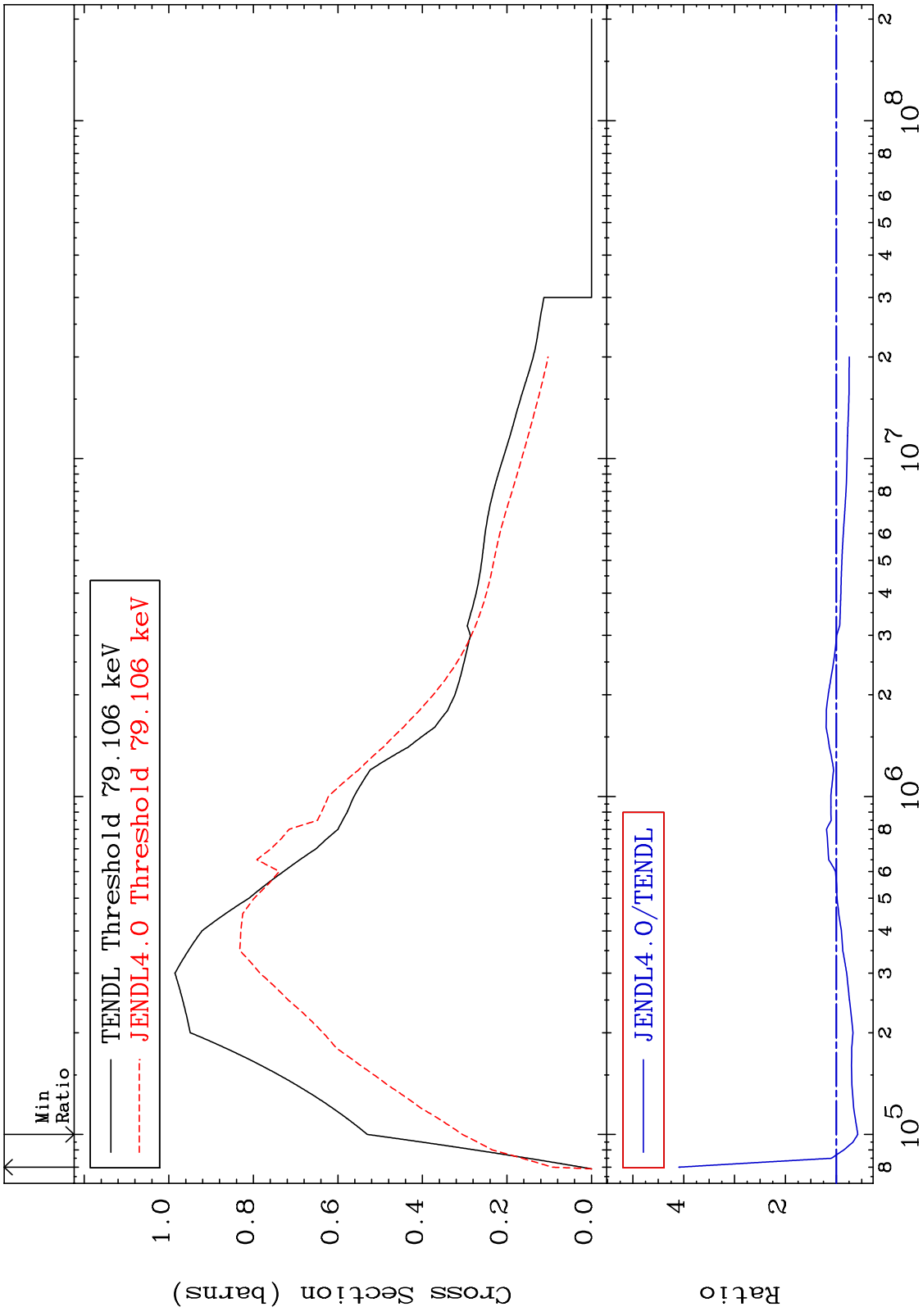


70-Yb-173

MAT 7040 (n, n') d 70-Yb-173
 Cross Section 251.0 To 576.9 %

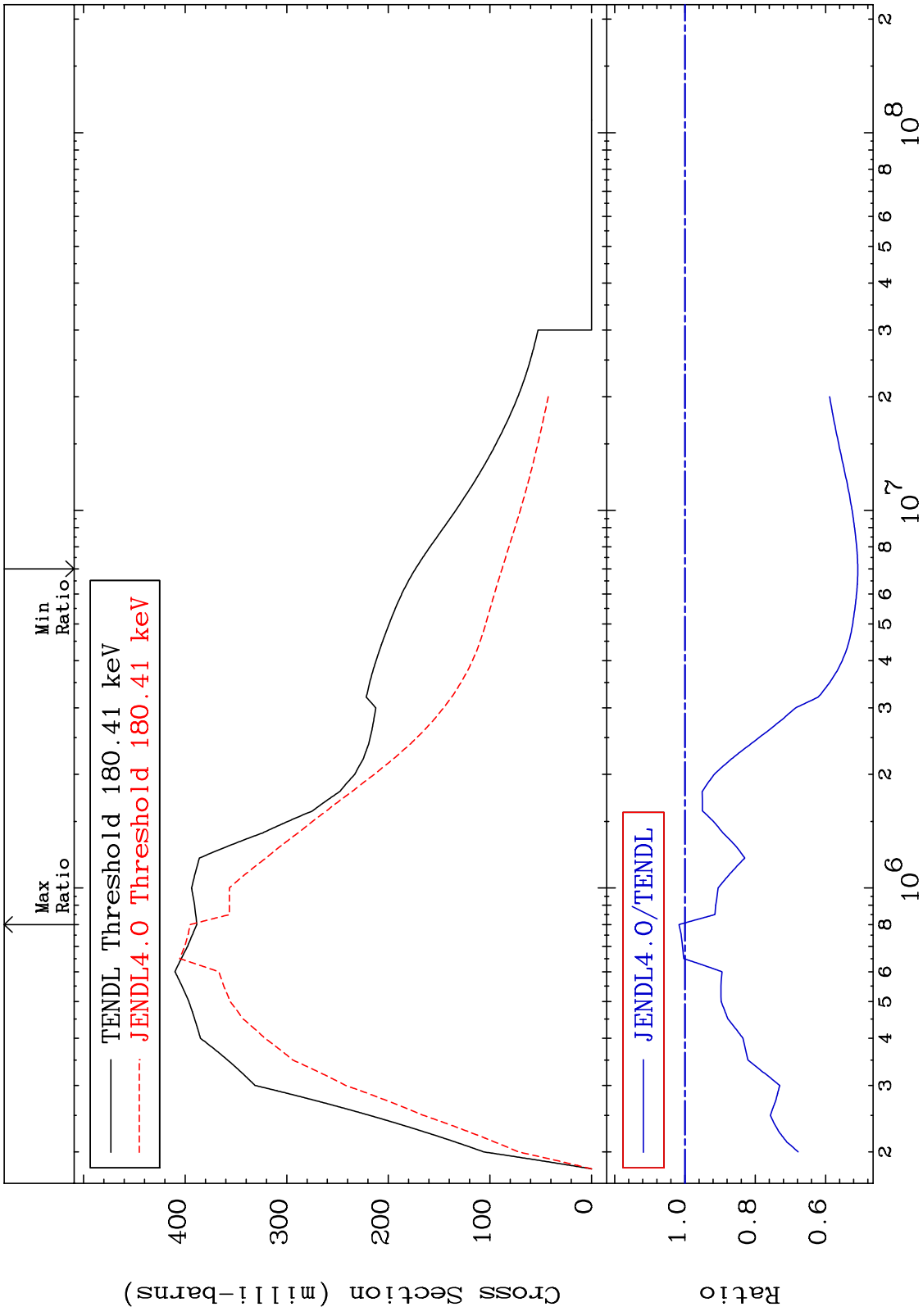


MAT 7040 MT= 51 (n,n') Level Cross Section 70-Yb-173 -42.41 To 309.2 %



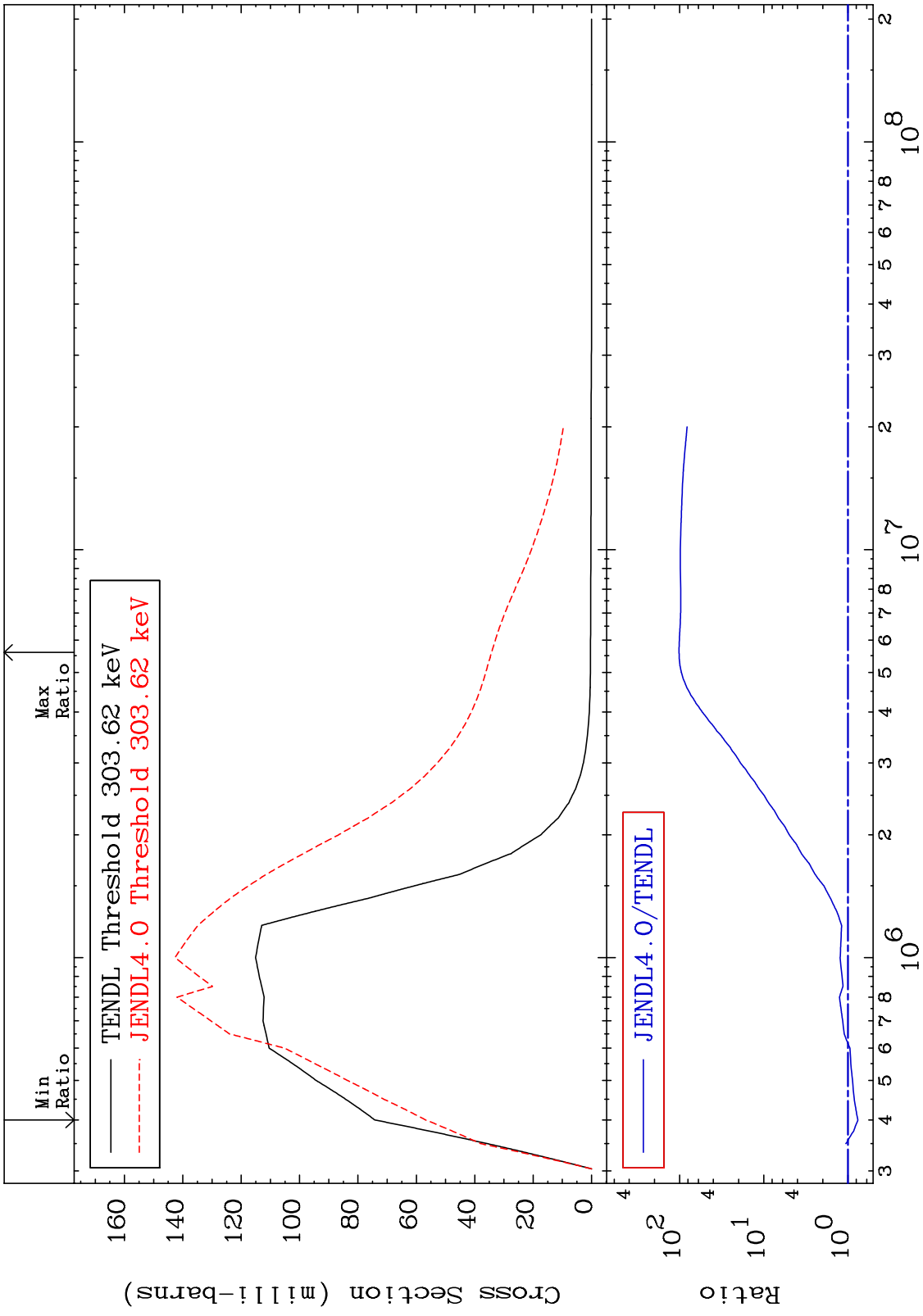
9 Incident Energy (eV) 70-Yb-173

MAT 7040 MT= 52 (n,n') Level Cross Section 70-Yb-173
 -49.18 To 1.685 %

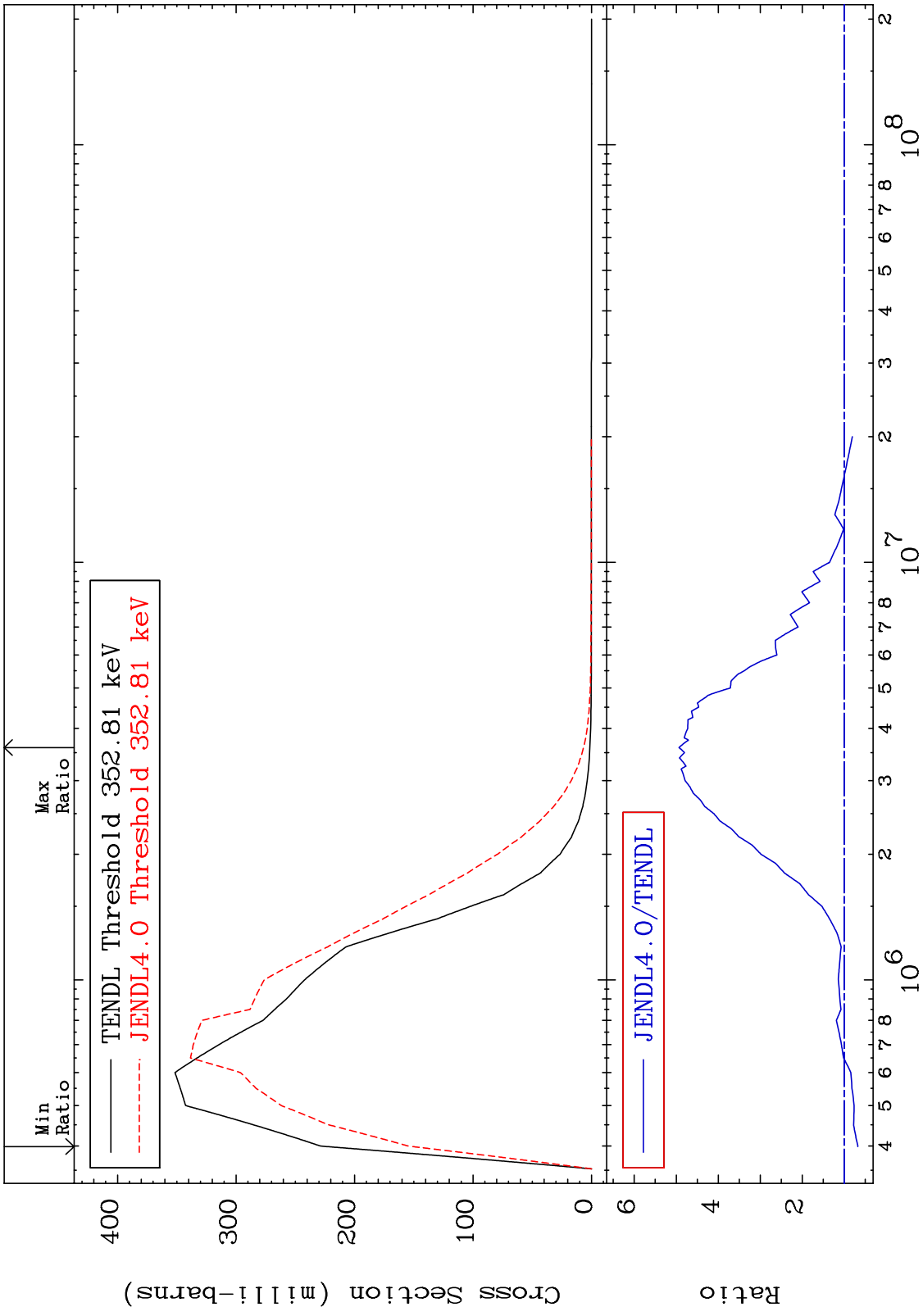


10 Incident Energy (eV) 70-Yb-173

MAT 7040 MT= 53 (n,n') Level Cross Section -23.48 To 9999. % 70-Yb-173

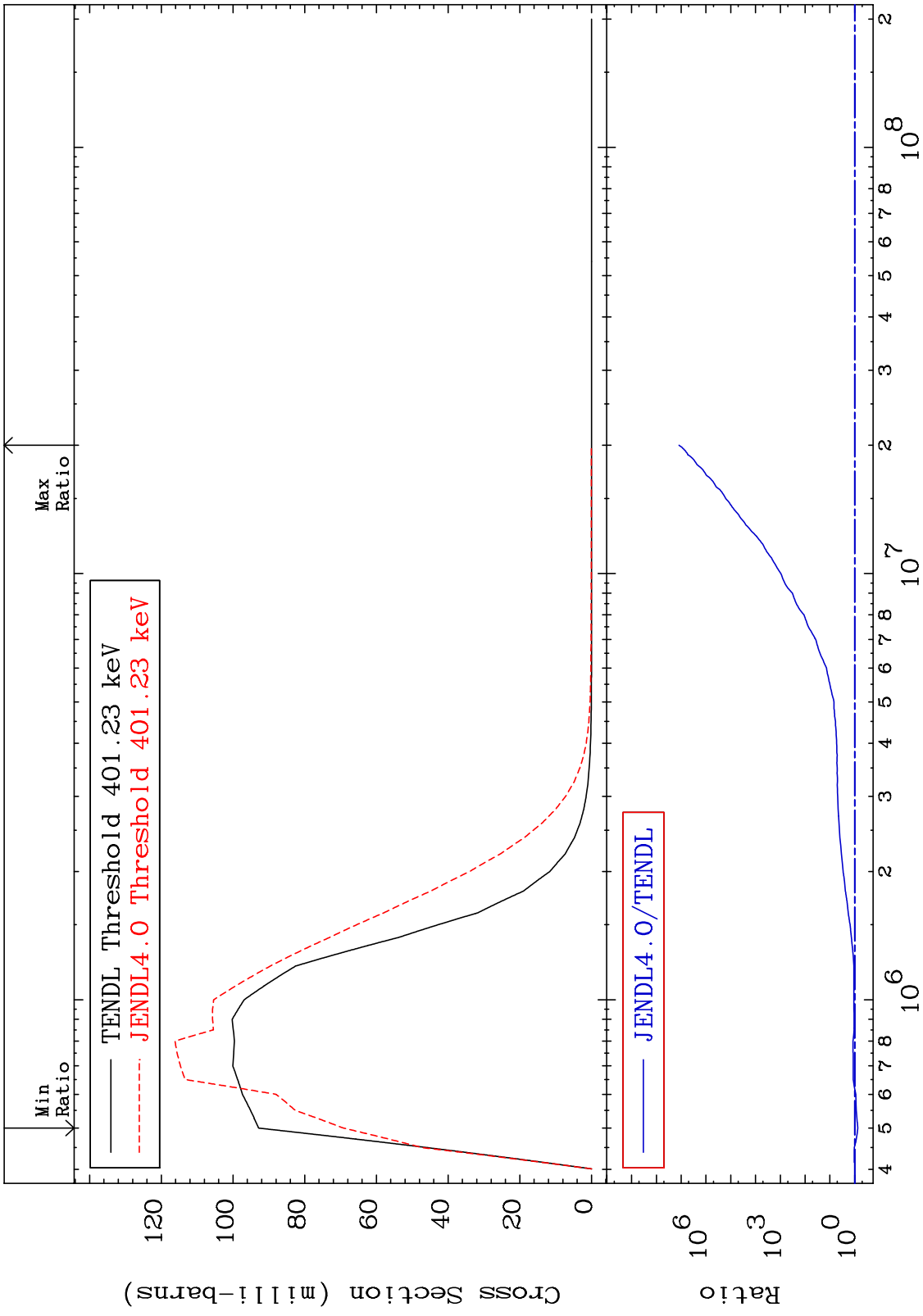


MAT 7040 MT= 54 (n,n') Level Cross Section 70-Yb-173
 -32.35 To 393.4 %

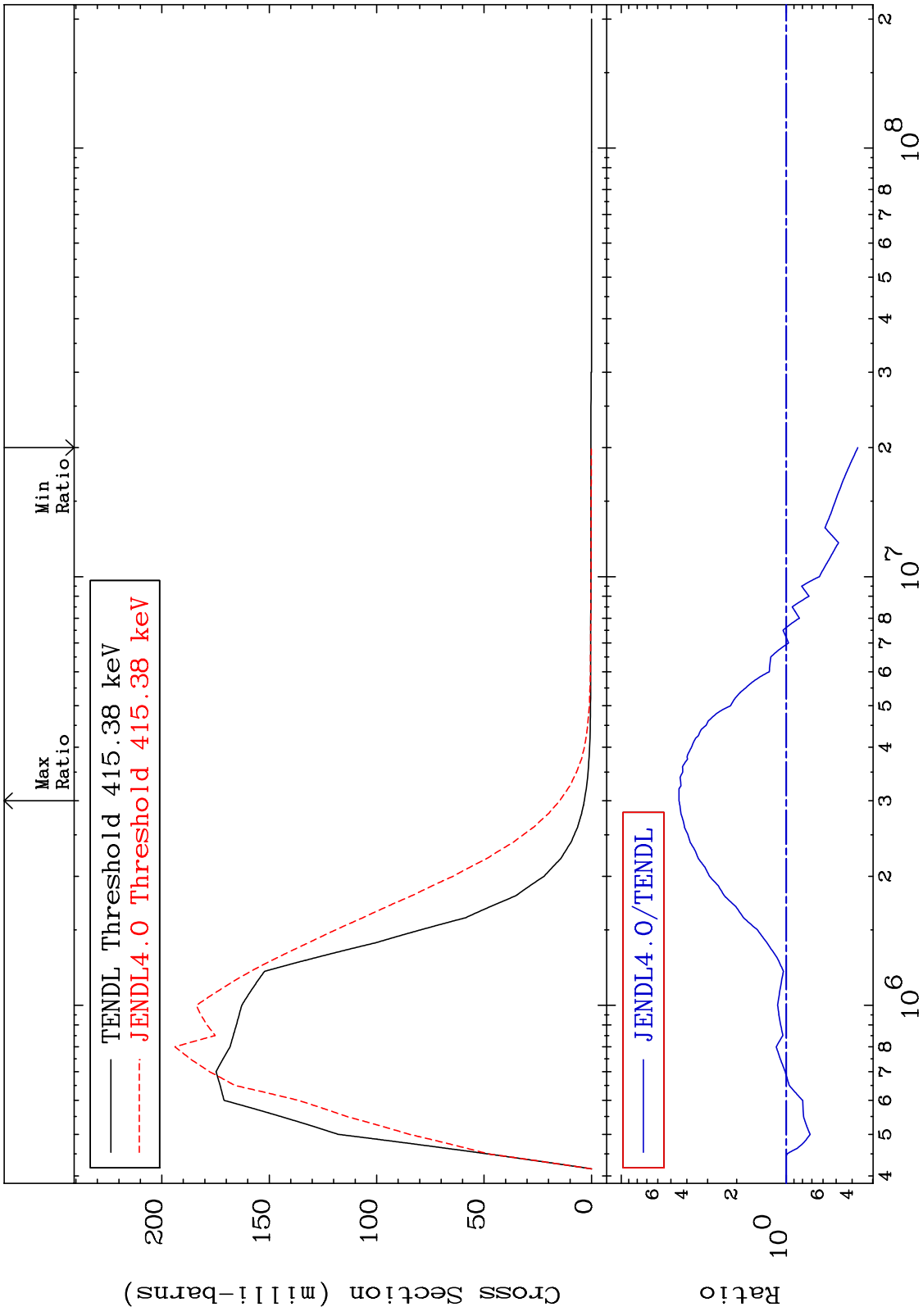


12 70-Yb-173

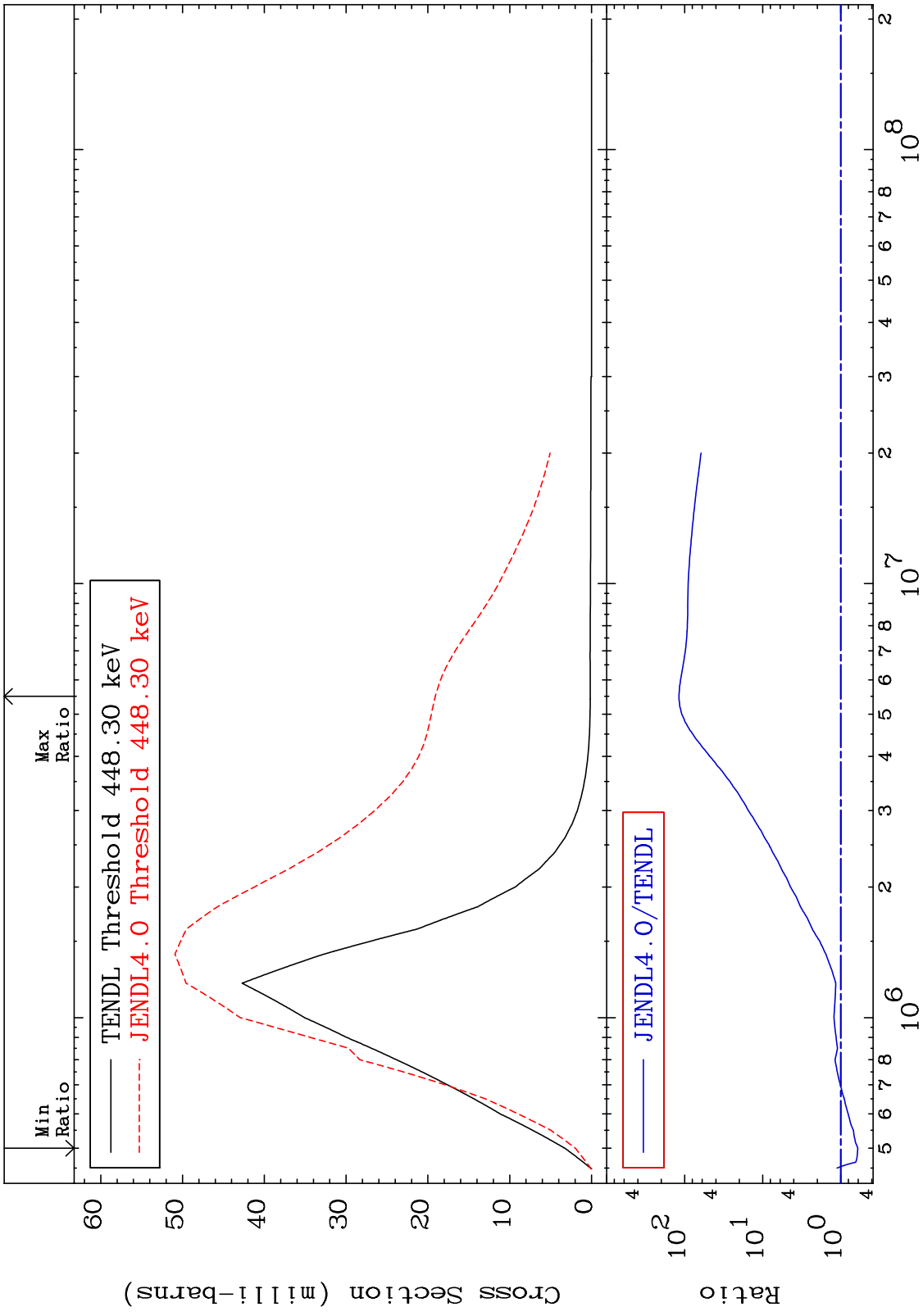
MAT 7040 MT= 55 (n,n') Level Cross Section 70-Yb-173
 -25.48 To 9999. %



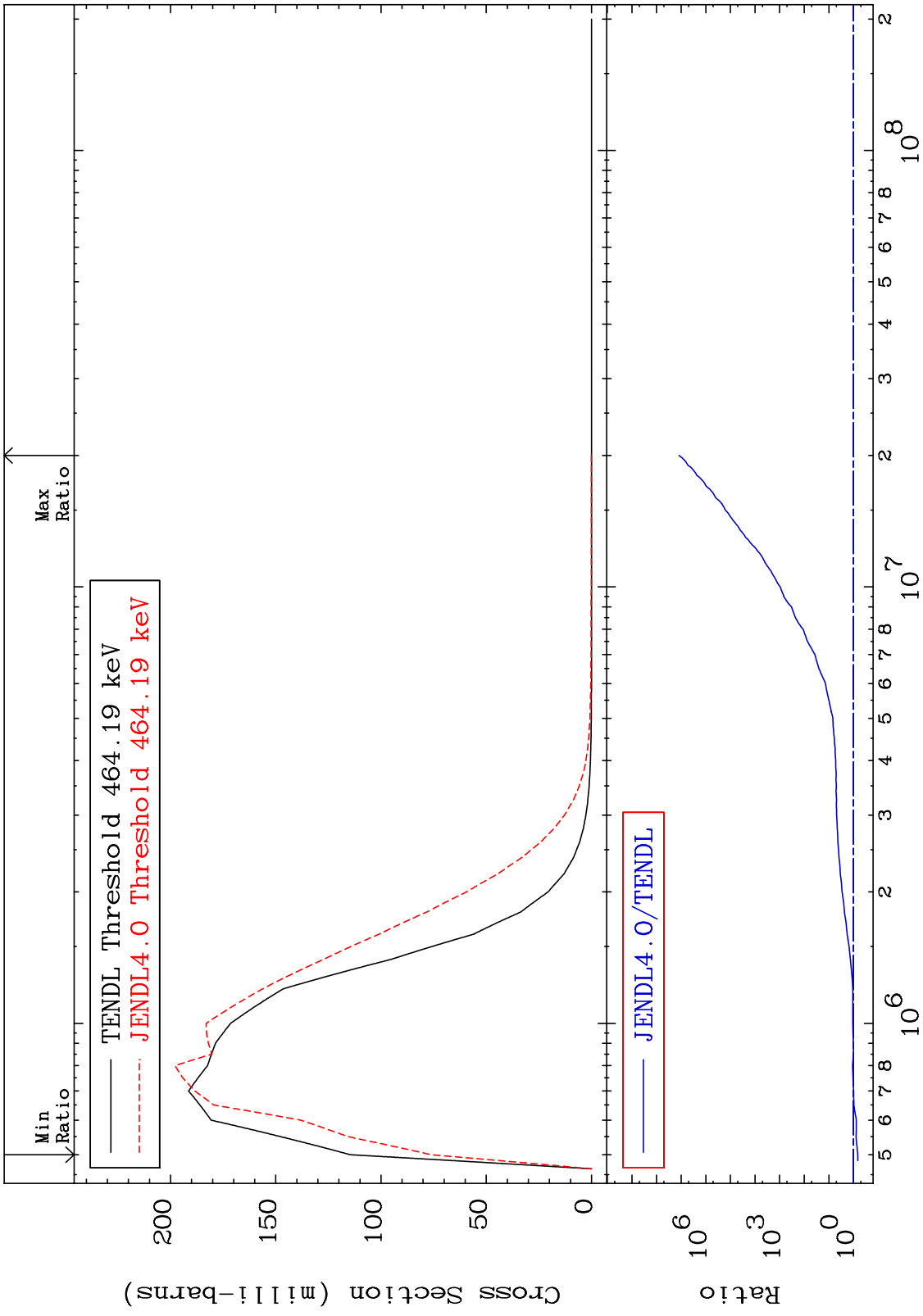
MAT 7040 MT= 56 (n,n') Level Cross Section 70-Yb-173
 -63.08 To 346.6 %



MAT 7040 MT= 57 (n,n') Level Cross Section 70-Yb-173
 -39.47 To 9999. %

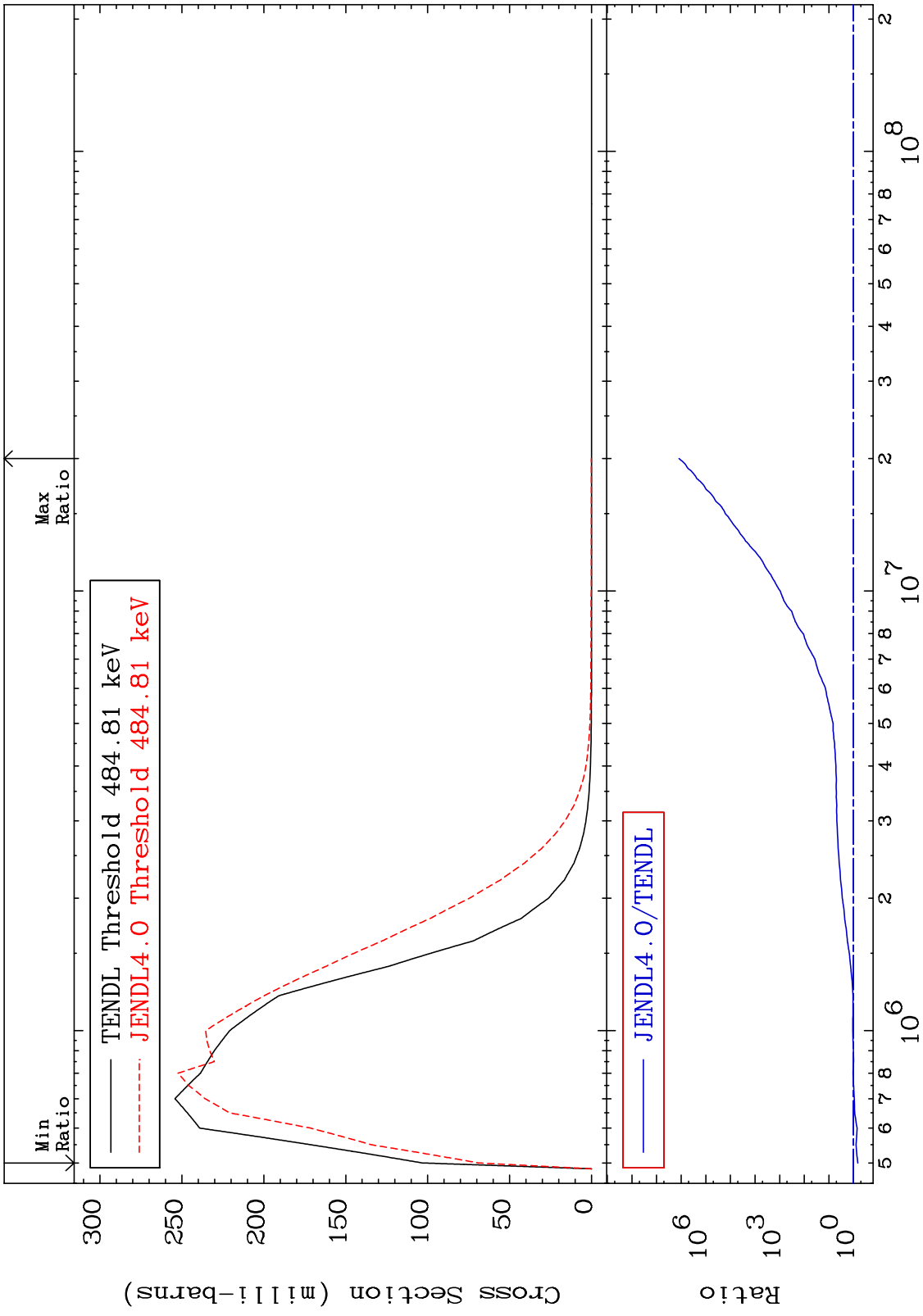


MAT 7040 MT= 58 (n,n') Level Cross Section 70-Yb-173
 -33.57 To 9999. %

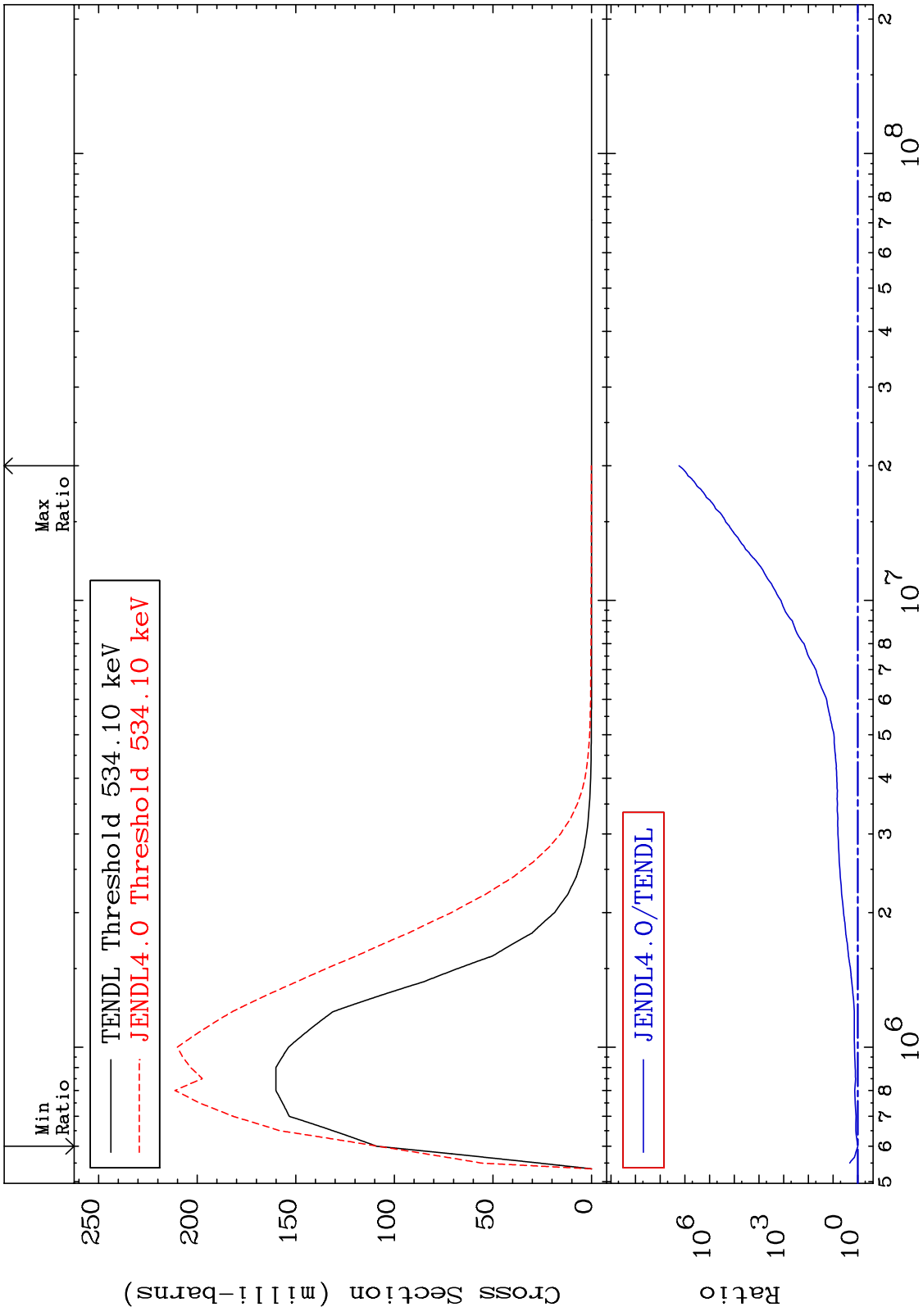


16 70-Yb-173

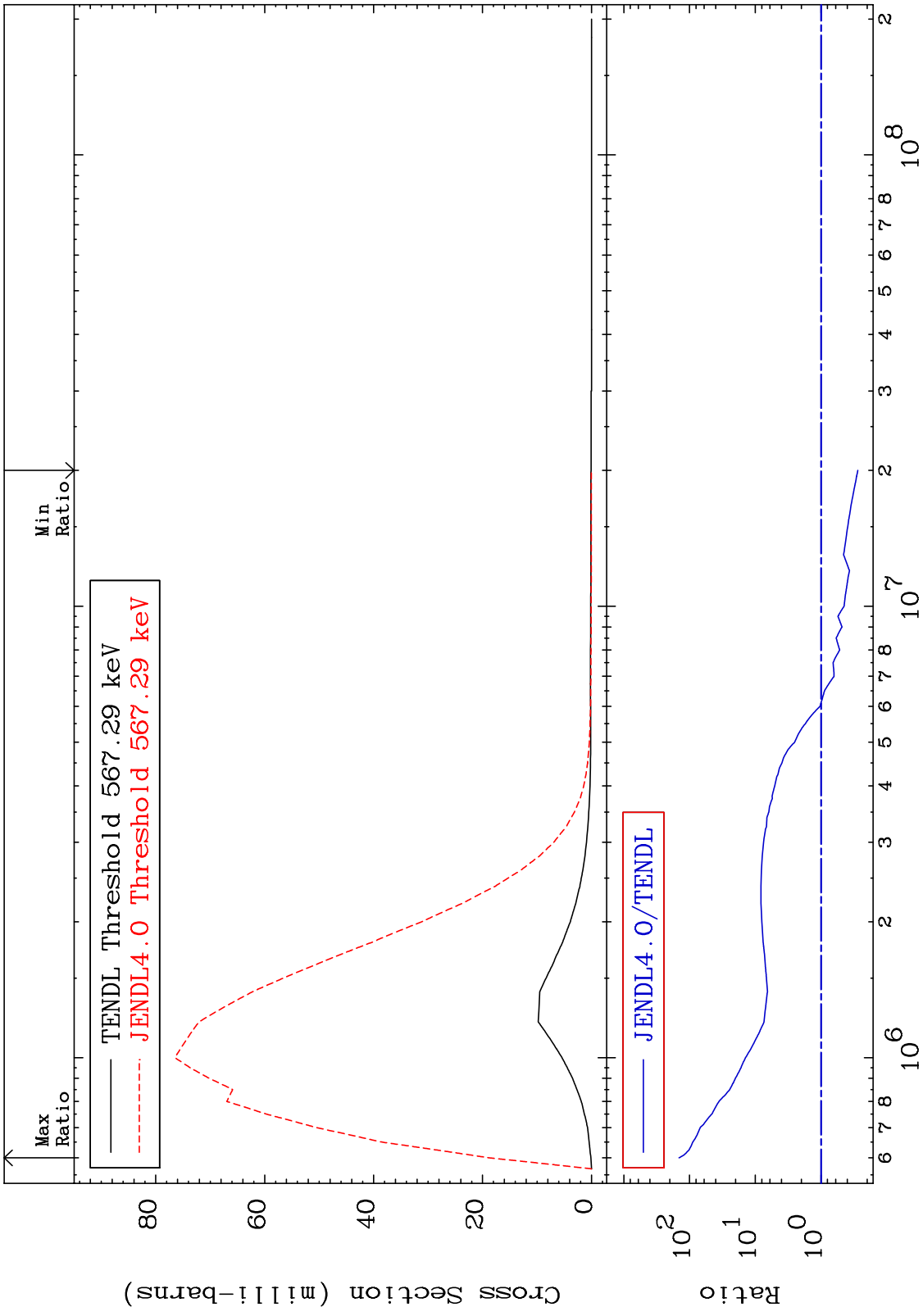
MAT 7040 MT= 59 (n,n') Level Cross Section 70-Yb-173
 -33.35 To 9999. %



MAT 7040 MT= 60 (n,n') Level Cross Section 70-Yb-173
 -0.606 To 9999. %

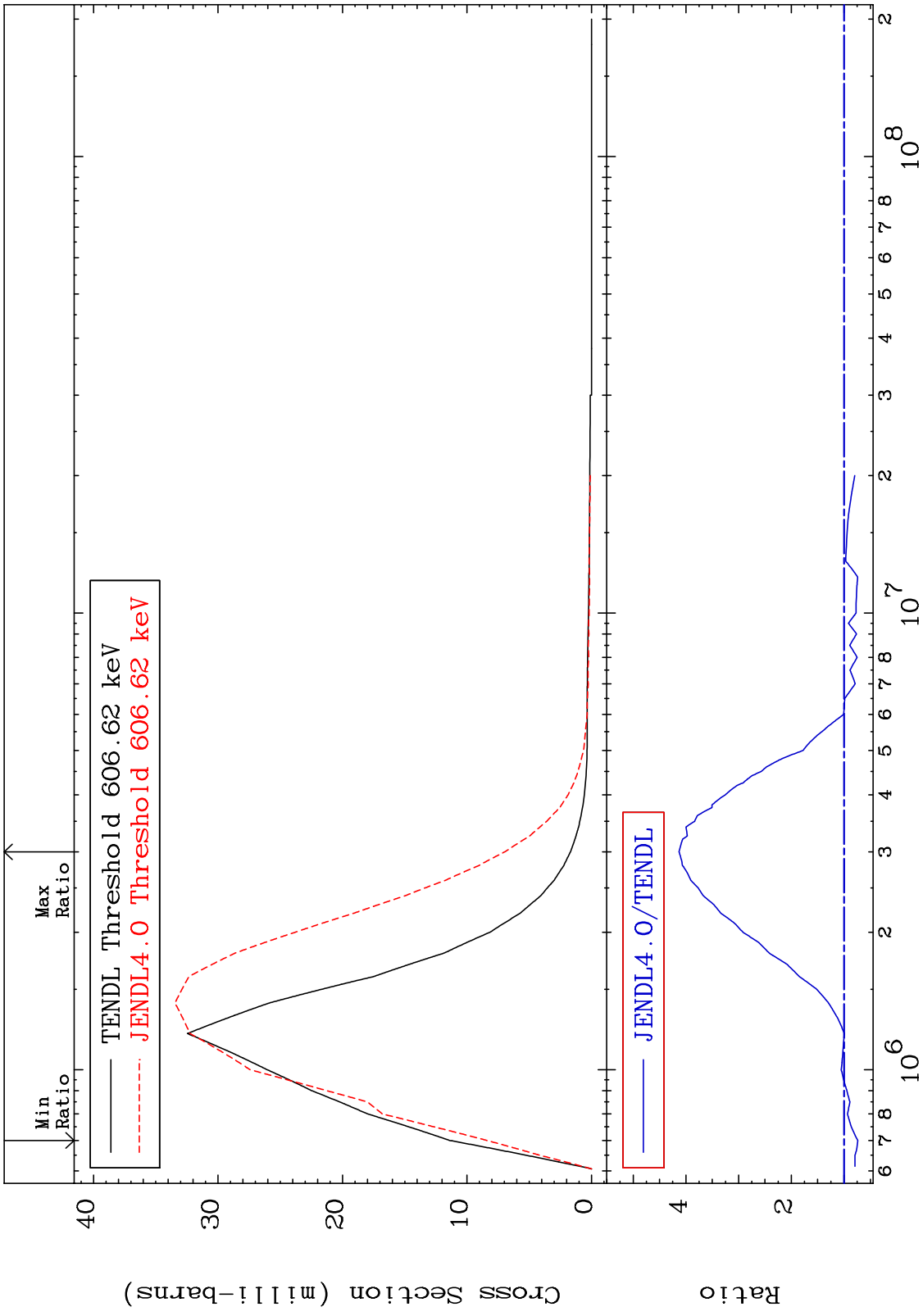


MAT 7040 MT= 61 (n,n') Level Cross Section 70-Yb-173
 -72.33 To 9999. %



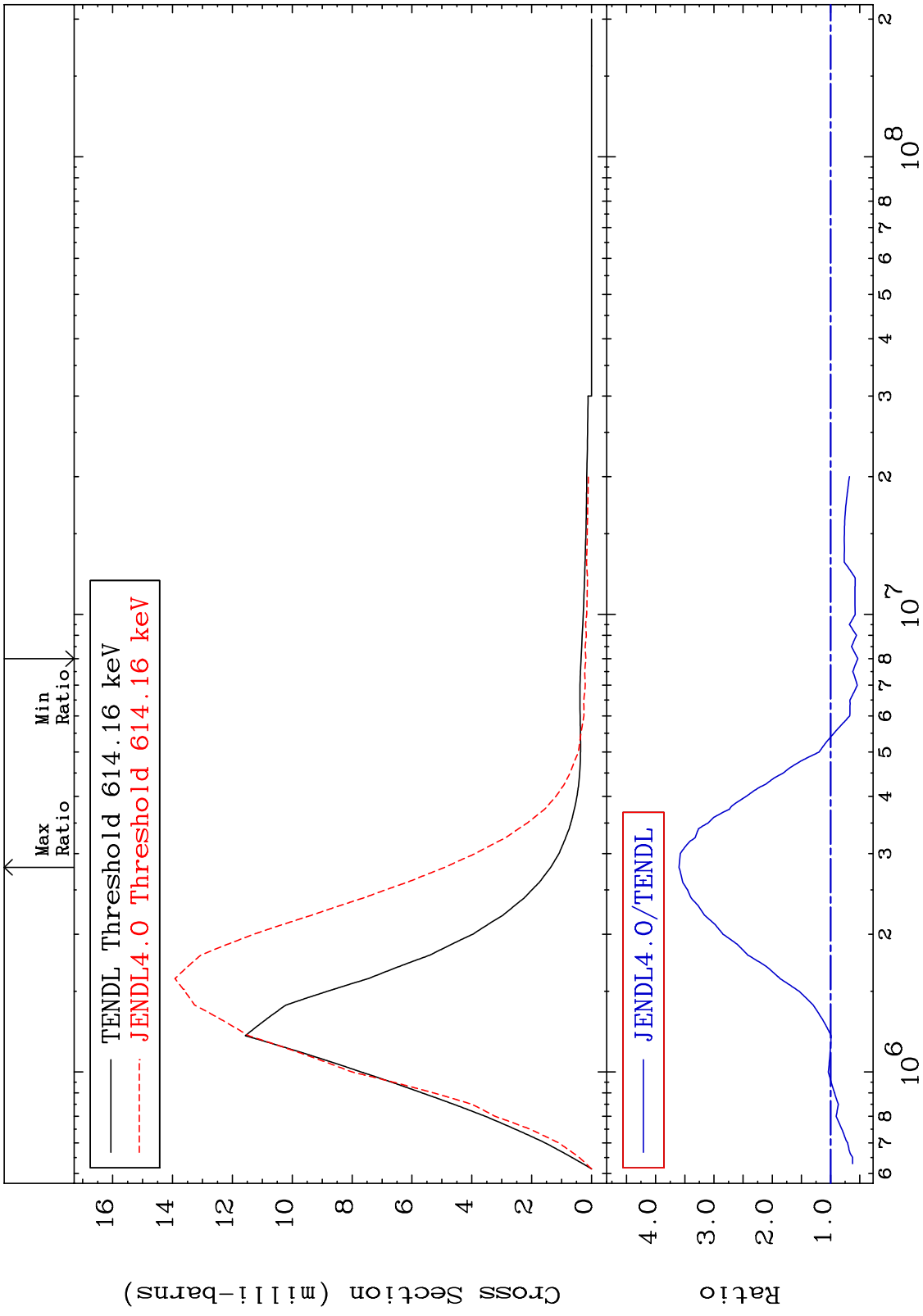
19 Incident Energy (eV) 70-Yb-173

MAT 7040 MT= 62 (n,n') Level Cross Section 70-Yb-173 -26.23 To 313.0 %

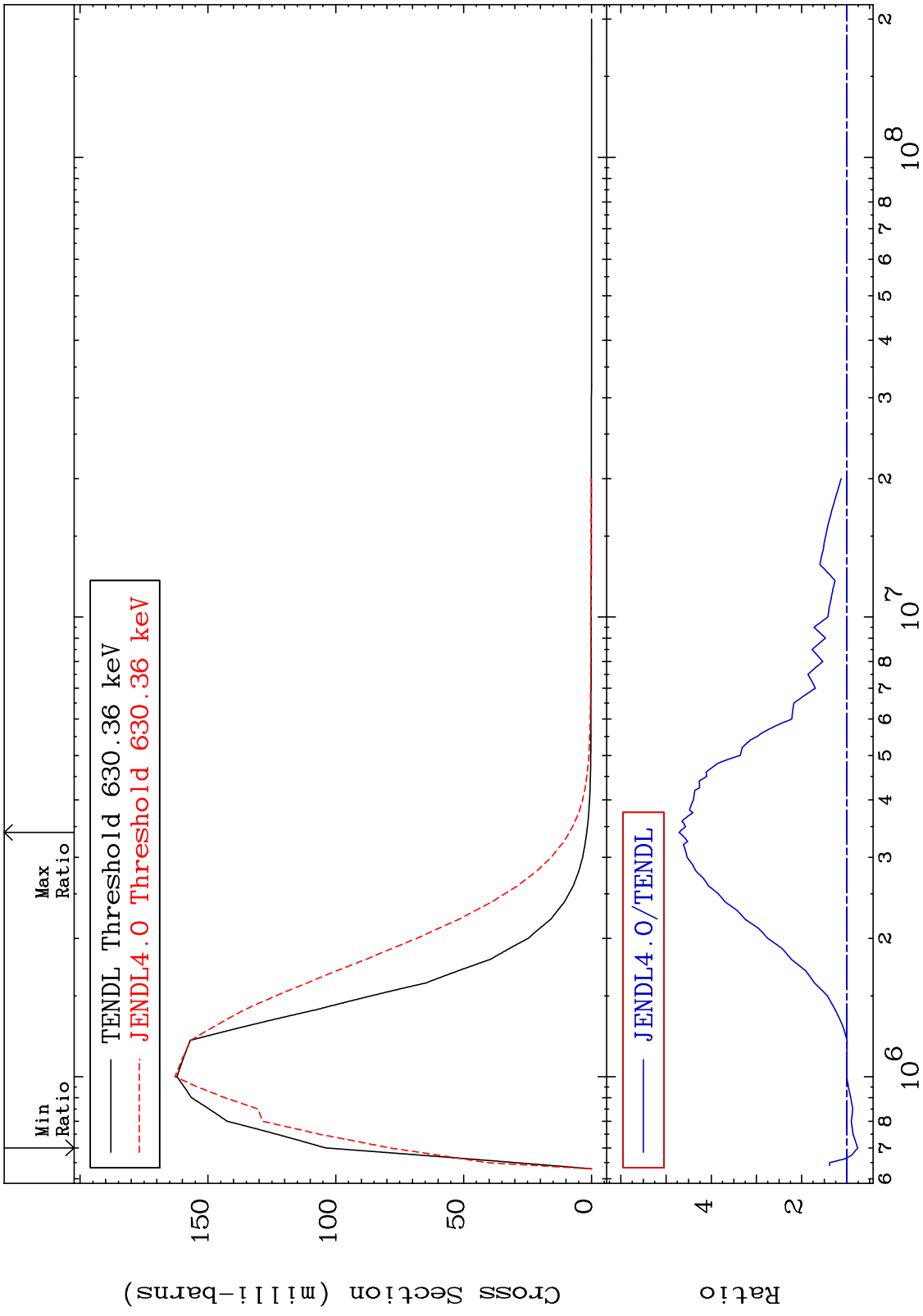


Incident Energy (eV) 70-Yb-173

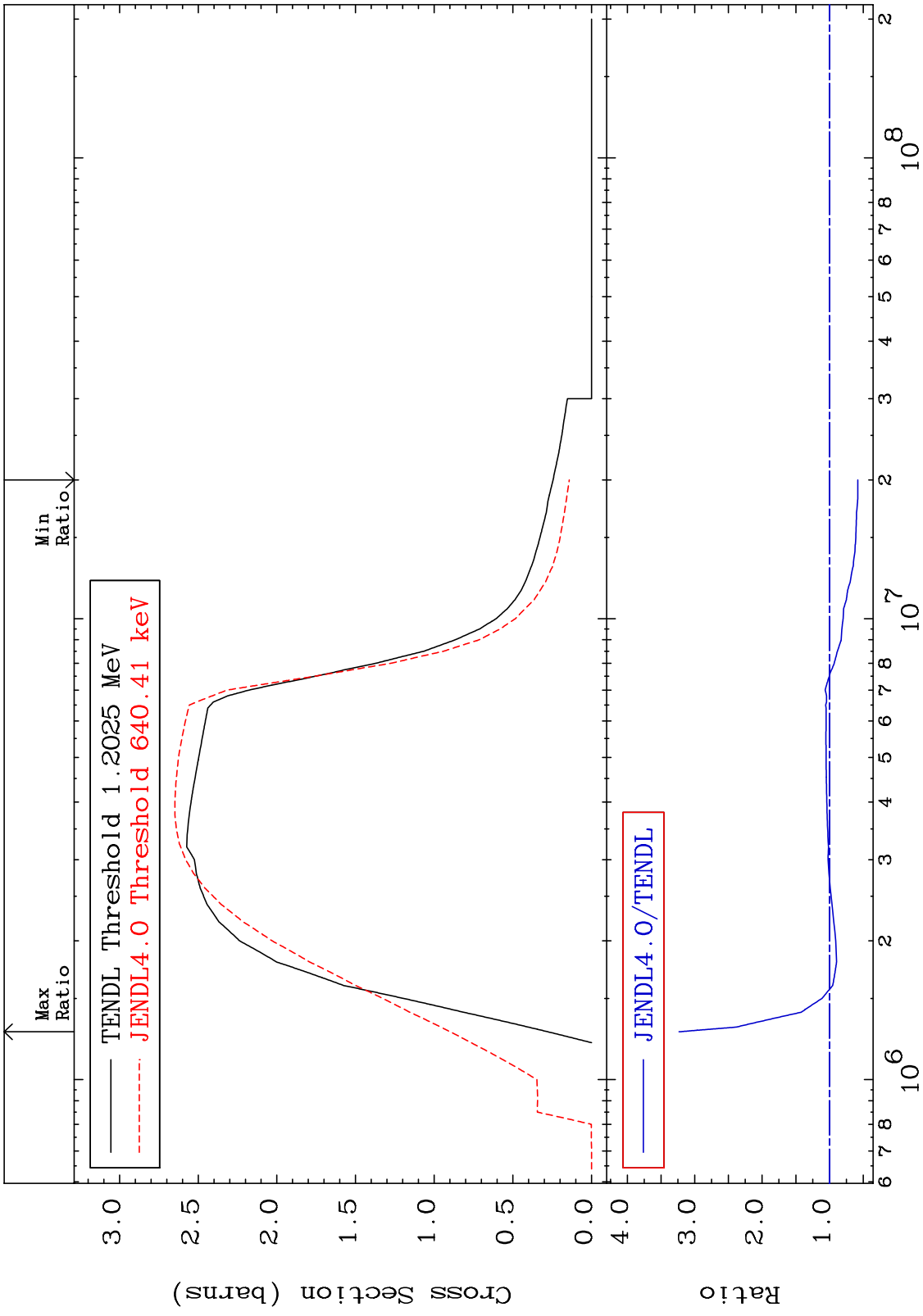
MAT 7040 MT= 63 (n,n') Level 70-Yb-173
 Cross Section -46.70 To 259.8 %



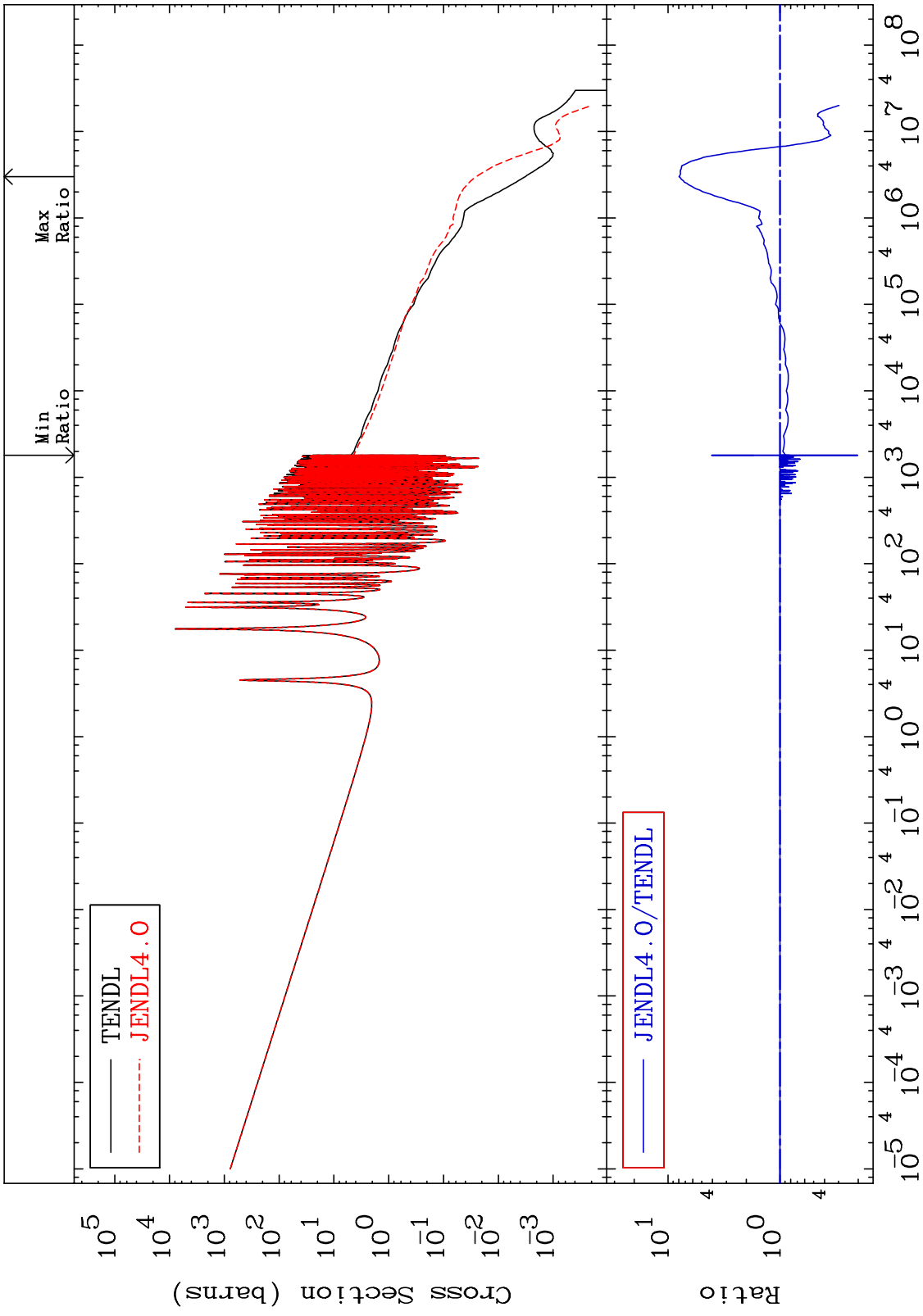
MAT 7040 MT= 64 (n,n') Level Cross Section 70-Yb-173 -24.12 To 371.2 %



MAT 7040 (n, n') Continuum Cross Section -42.10 To 223.4 % 70-Yb-173



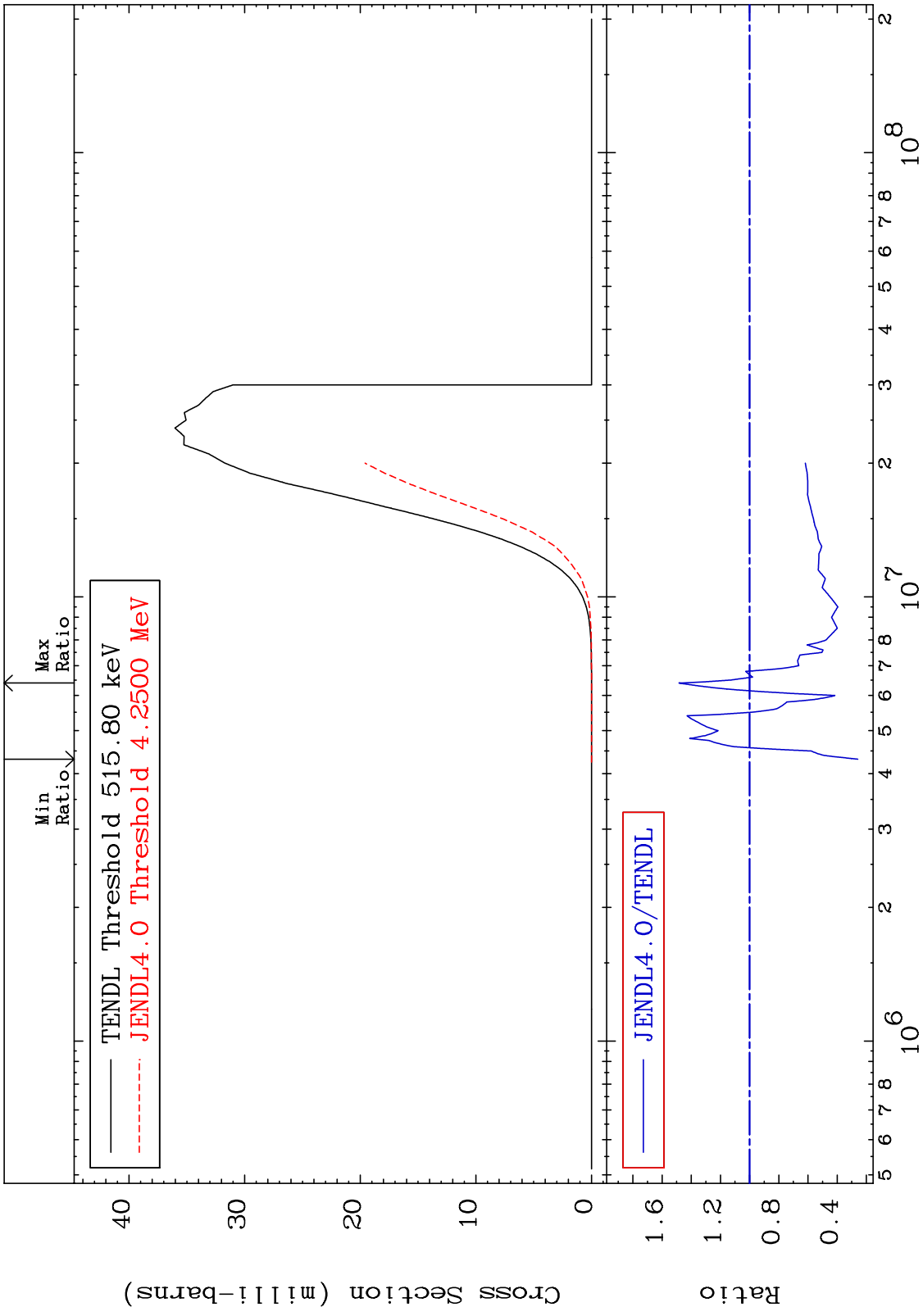
MAT 7040 (n, γ) Cross Section 70-Yb-173
 -79.86 To 696.0 %

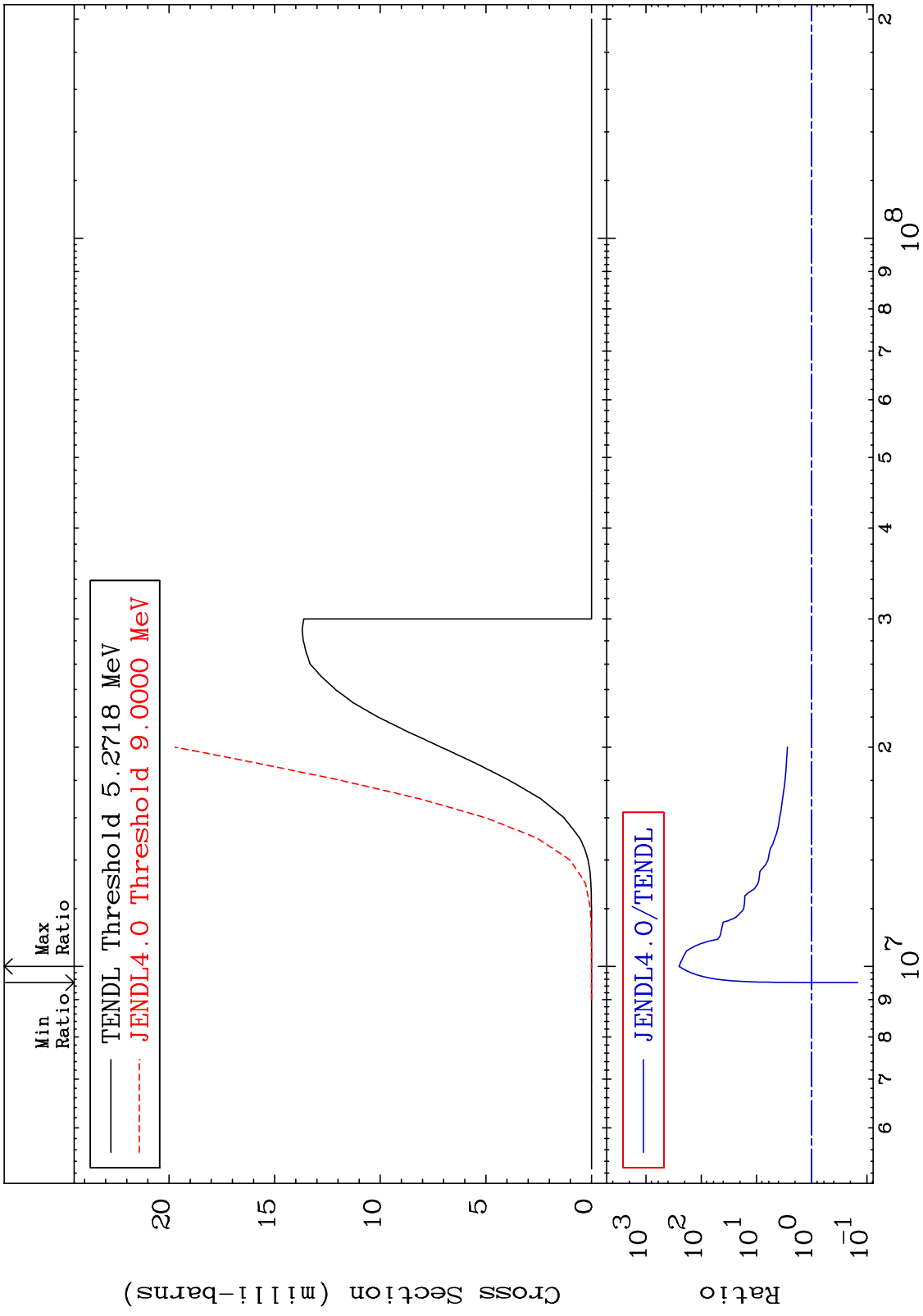


70-Yb-173

Incident Energy (eV)

MAT 7040 (n,p) Cross Section 70-Yb-173 -74.16 To 48.37 %





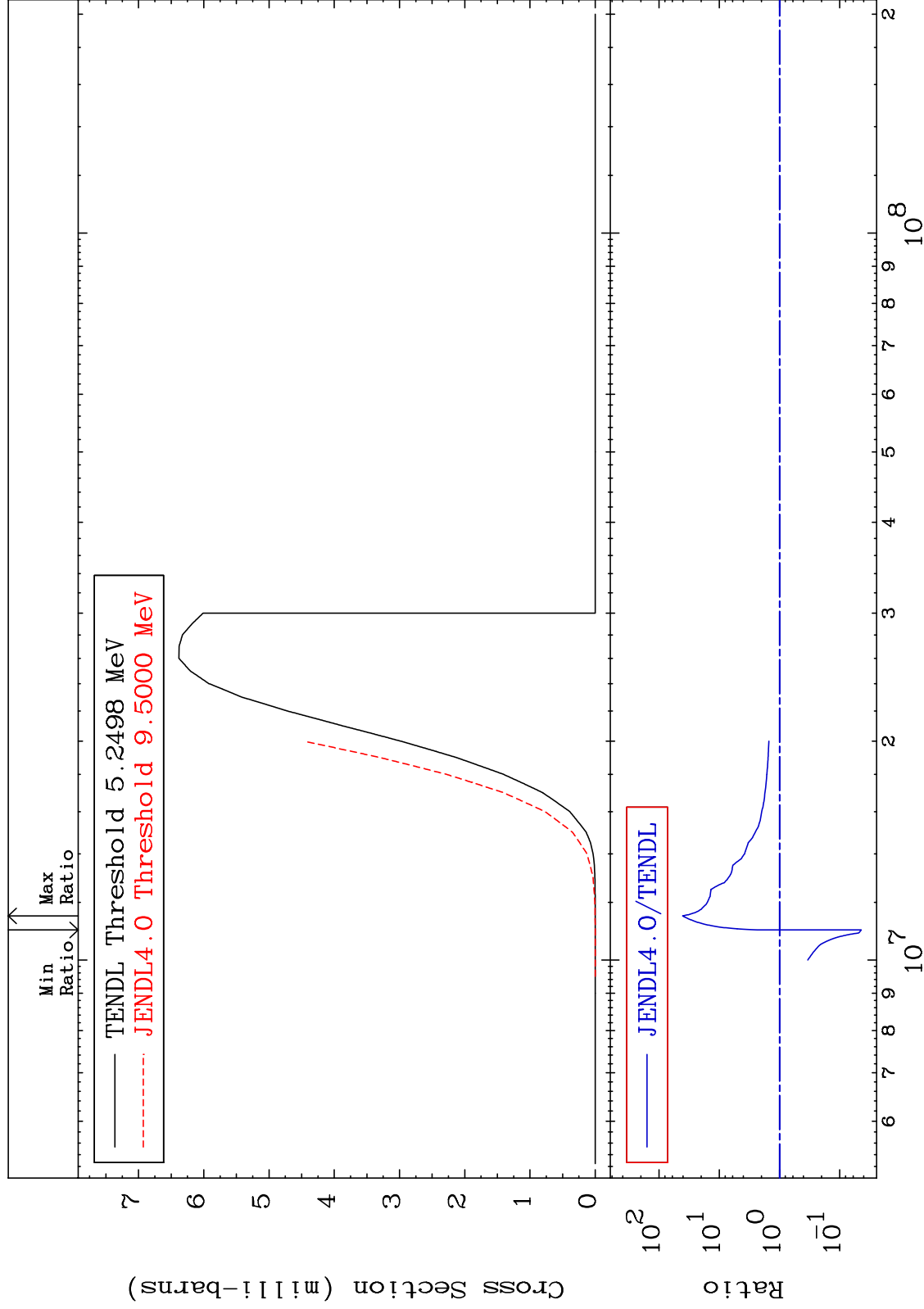
MAT 7040

(n,t)

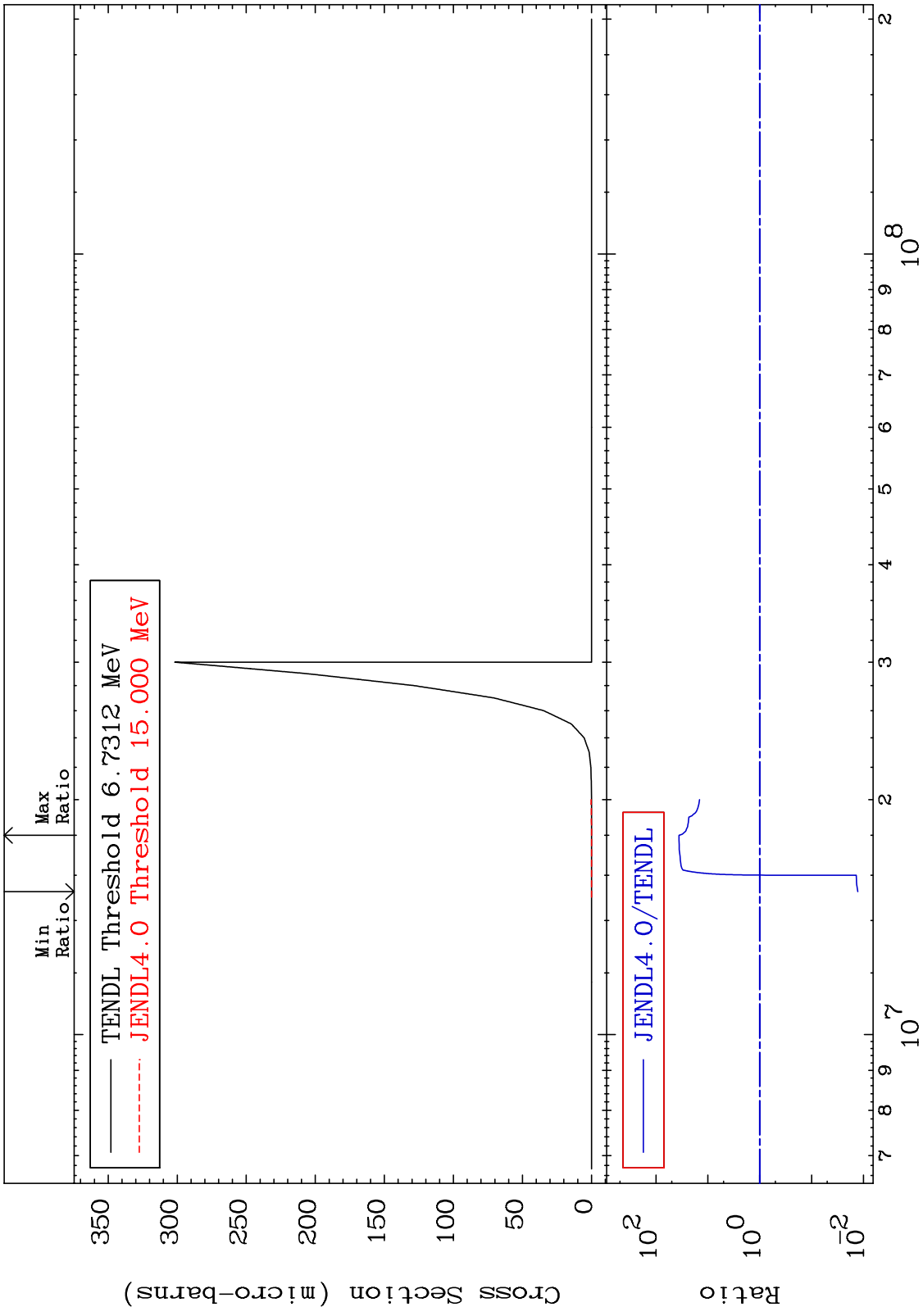
70-Yb-173

Cross Section

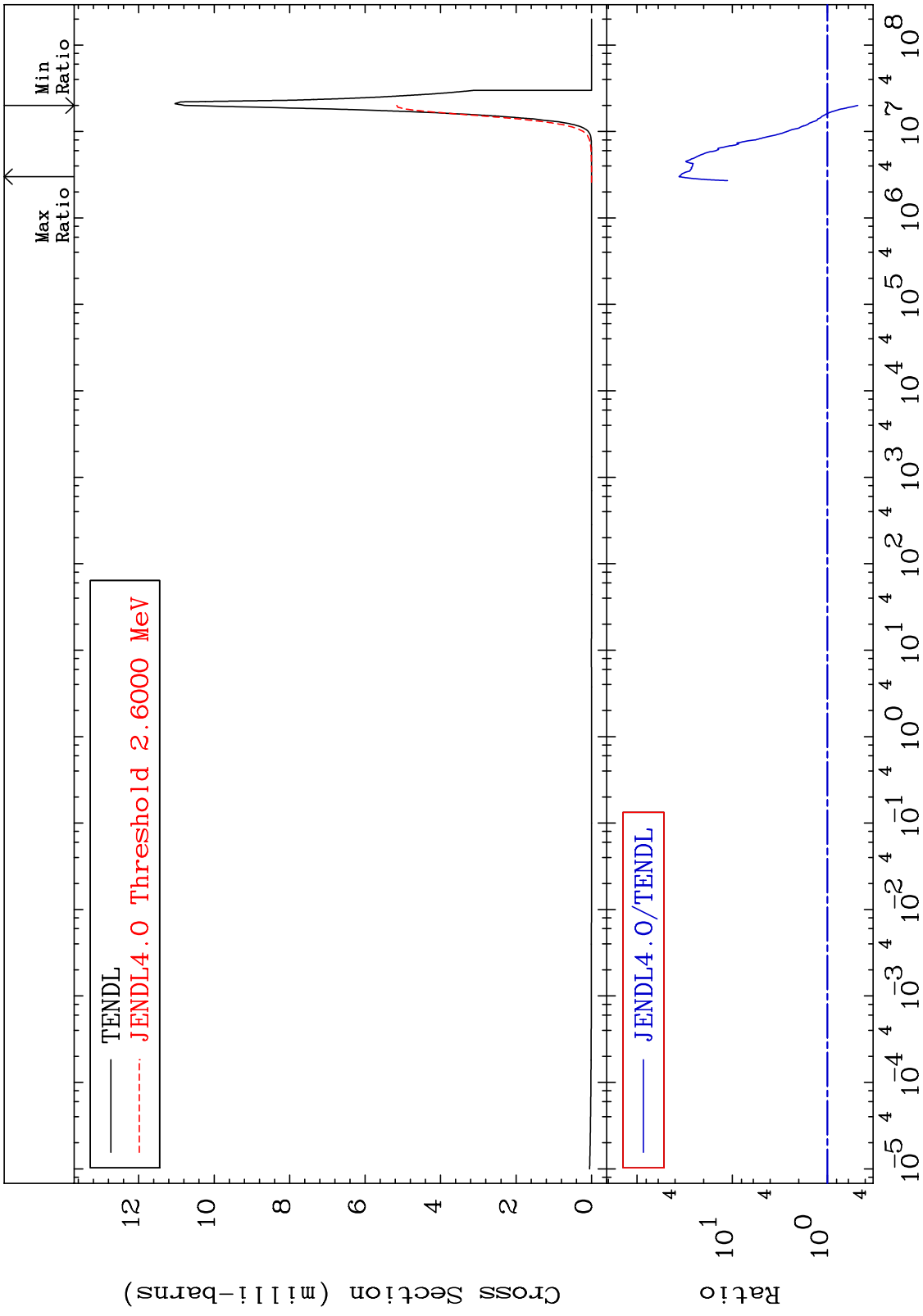
-95.62 To 3950. %



MAT 7040 (n, He-3) 70-Yb-173
 Cross Section -98.72 To 3505. %

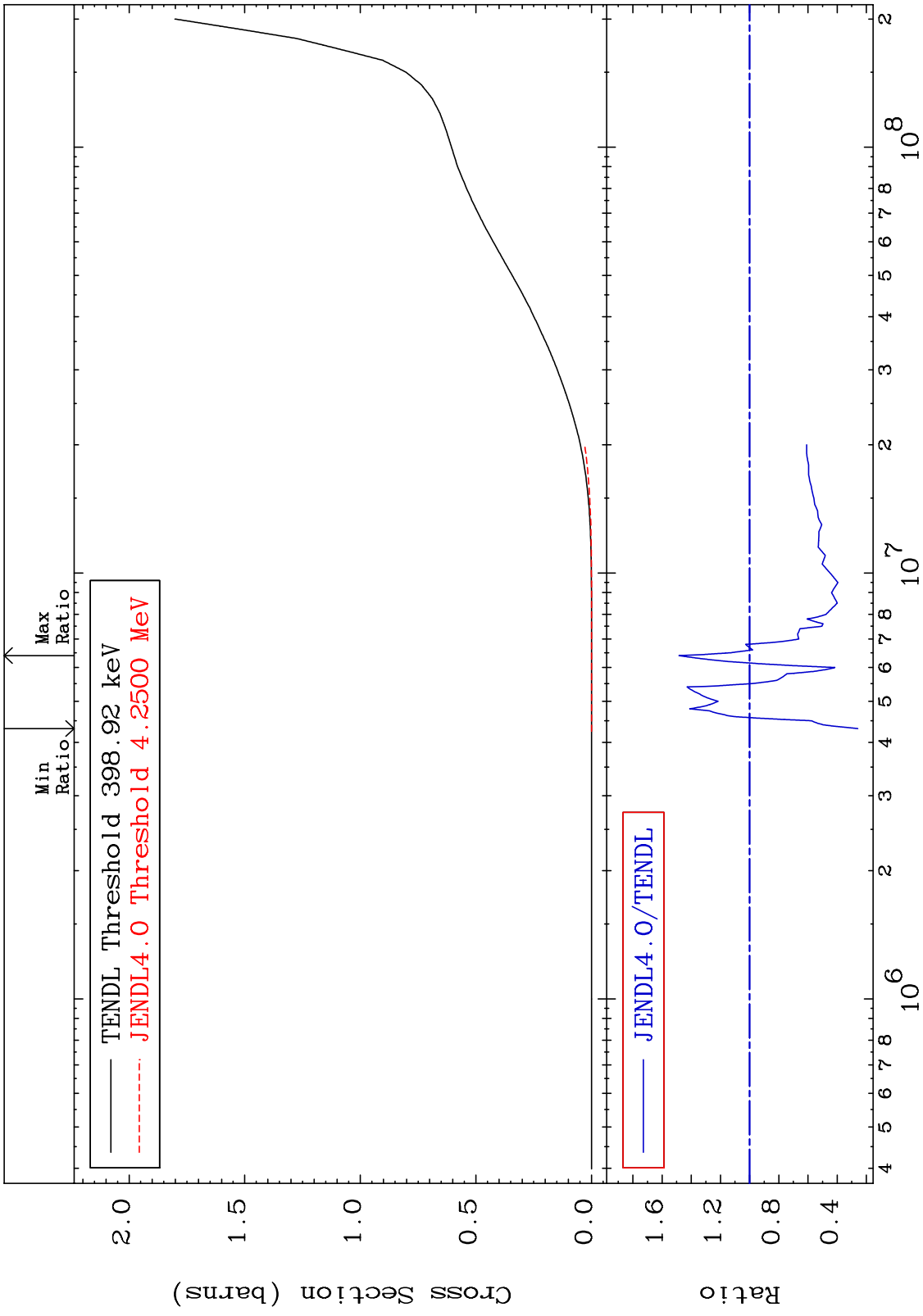


MAT 7040 (n, α) Cross Section 70-Yb-173 -52.16 To 3521. %



— TENDL
 - - - JENDL4.0 Threshold 2.6000 MeV

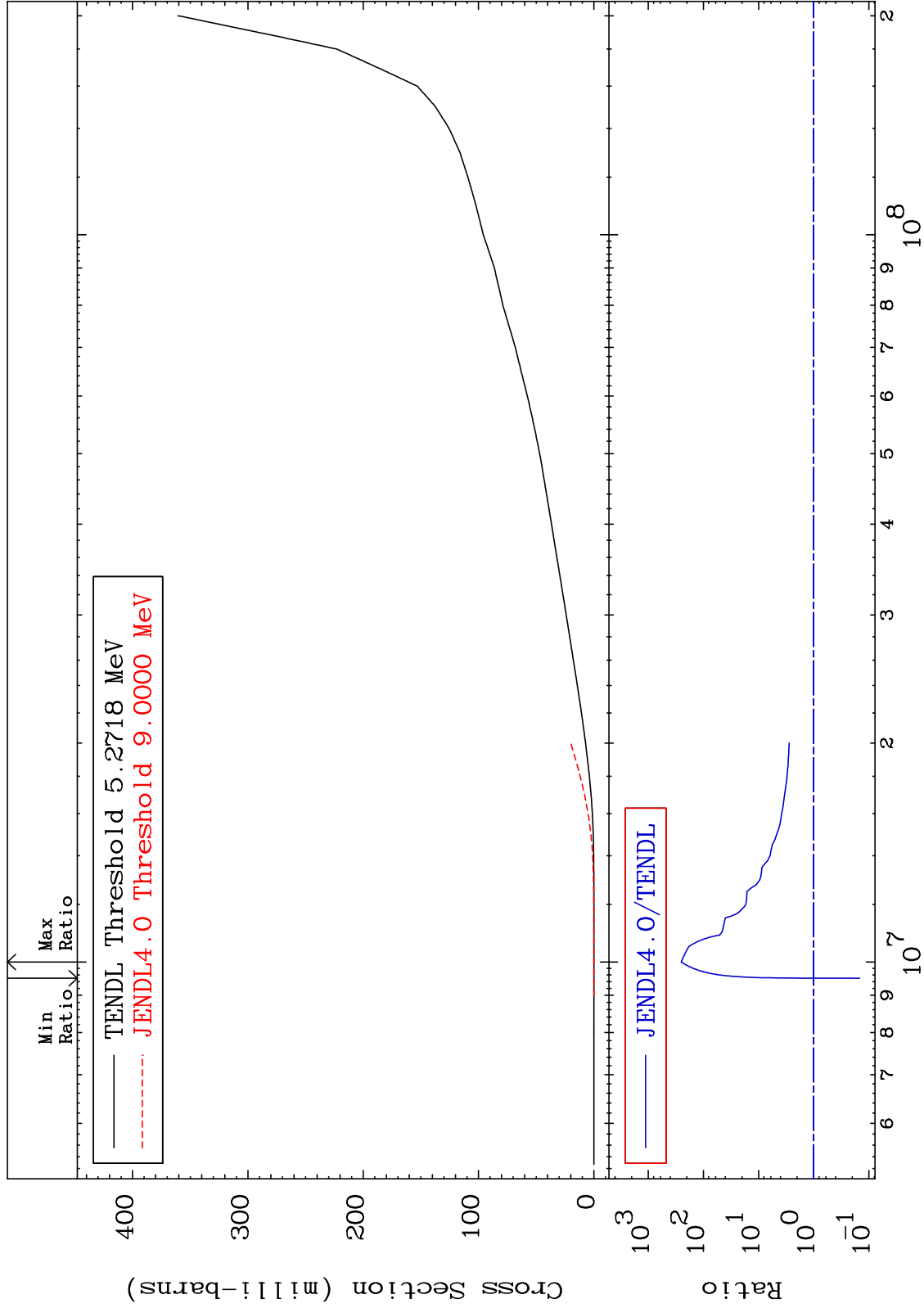
— JENDL4.0/TENDL



MAT 7040

Deuterium Production
Cross Section

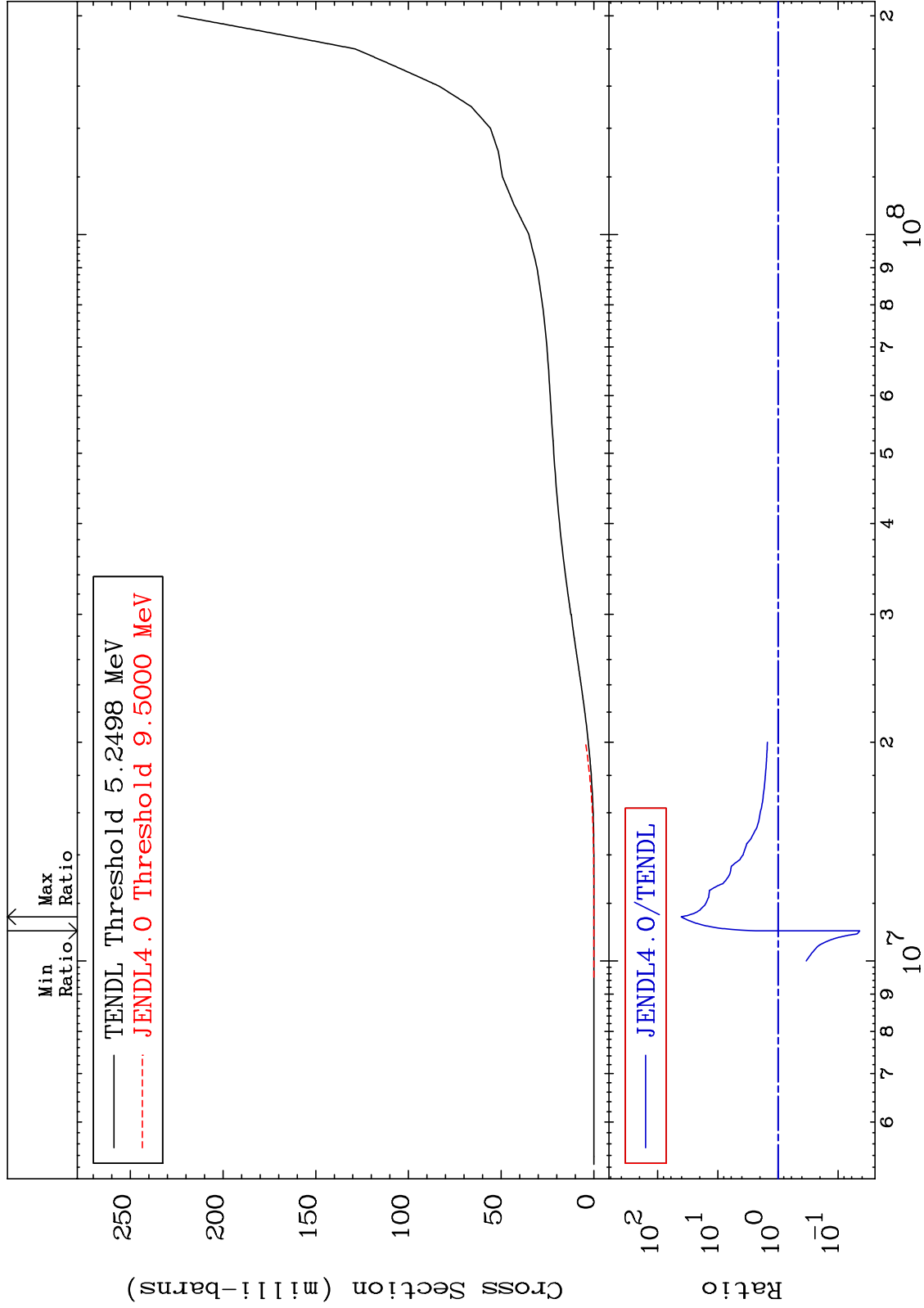
70-Yb-173
-85.36 To 9999. %



MAT 7040

Tritium Production
Cross Section

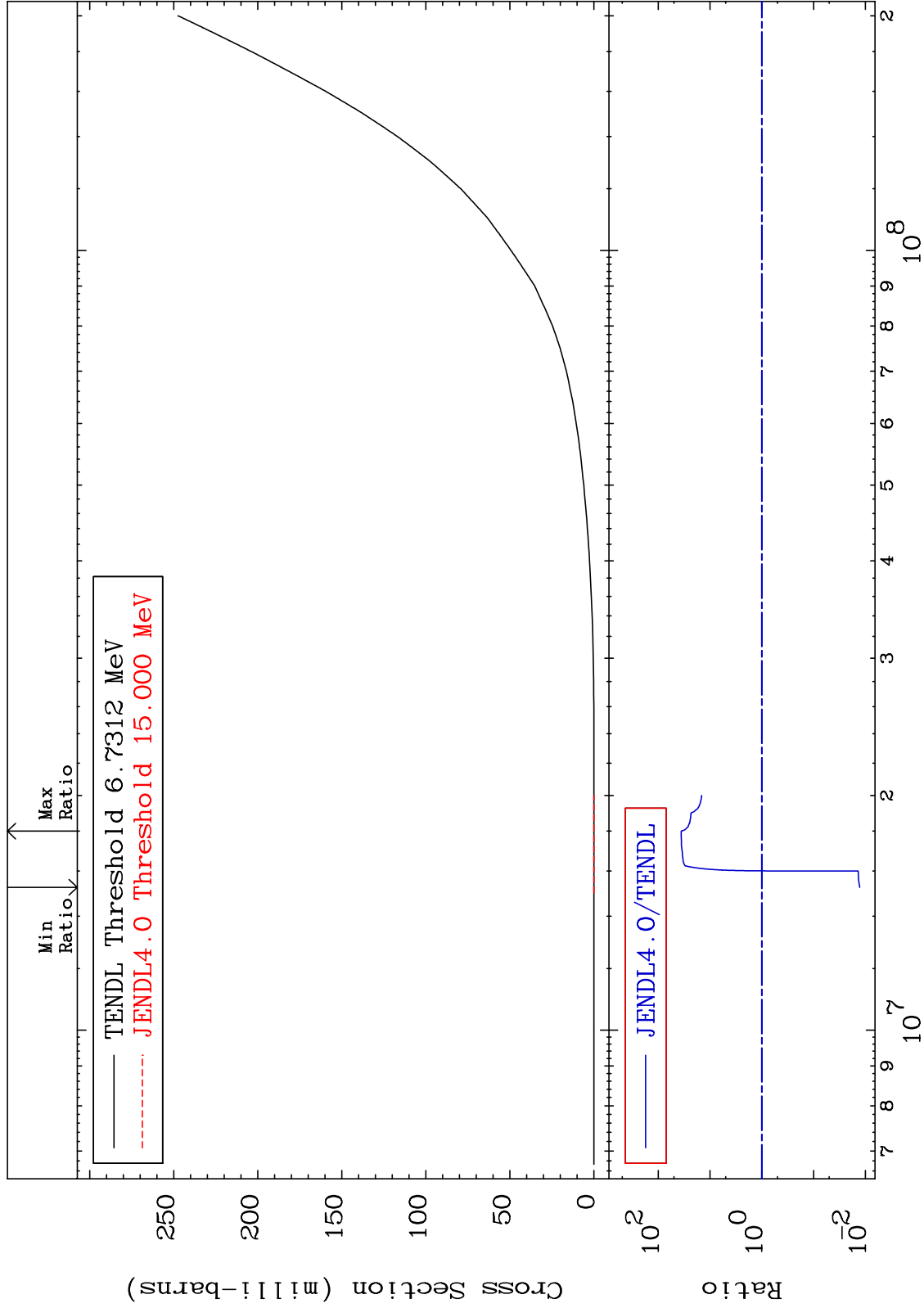
70-Yb-173
-95.62 To 3950. %



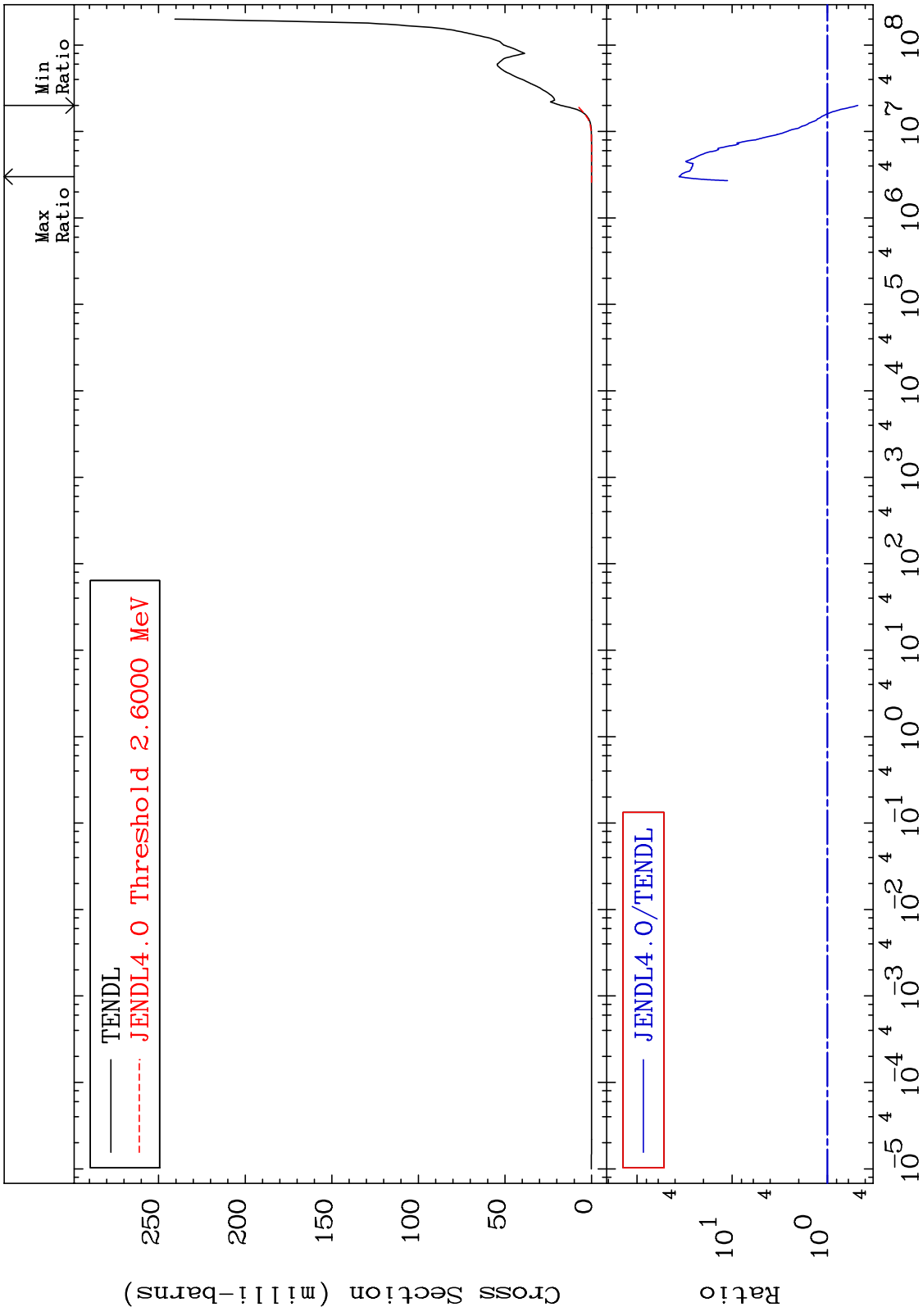
MAT 7040

He-3 Production
Cross Section

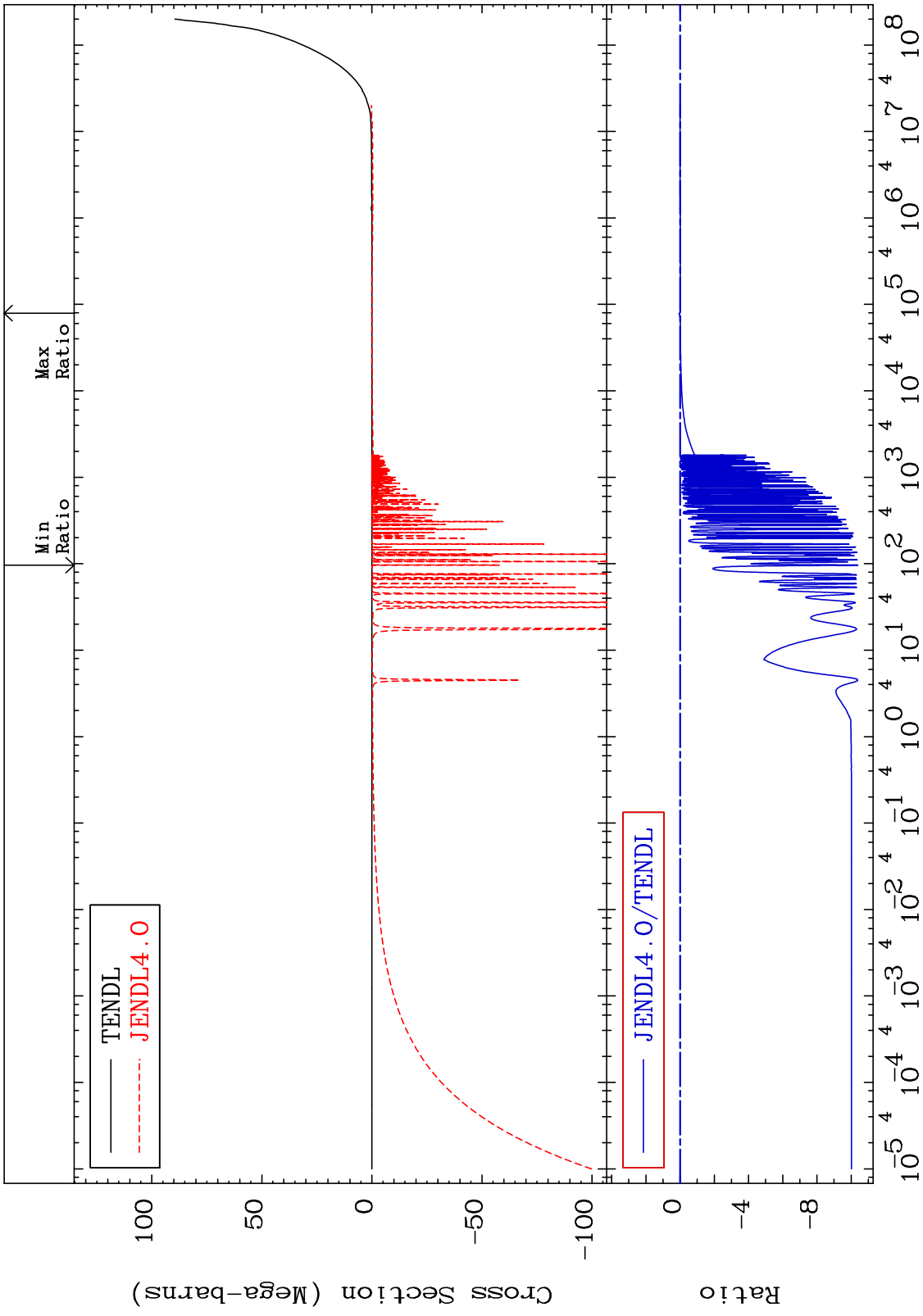
70-Yb-173
-98.72 To 3505. %



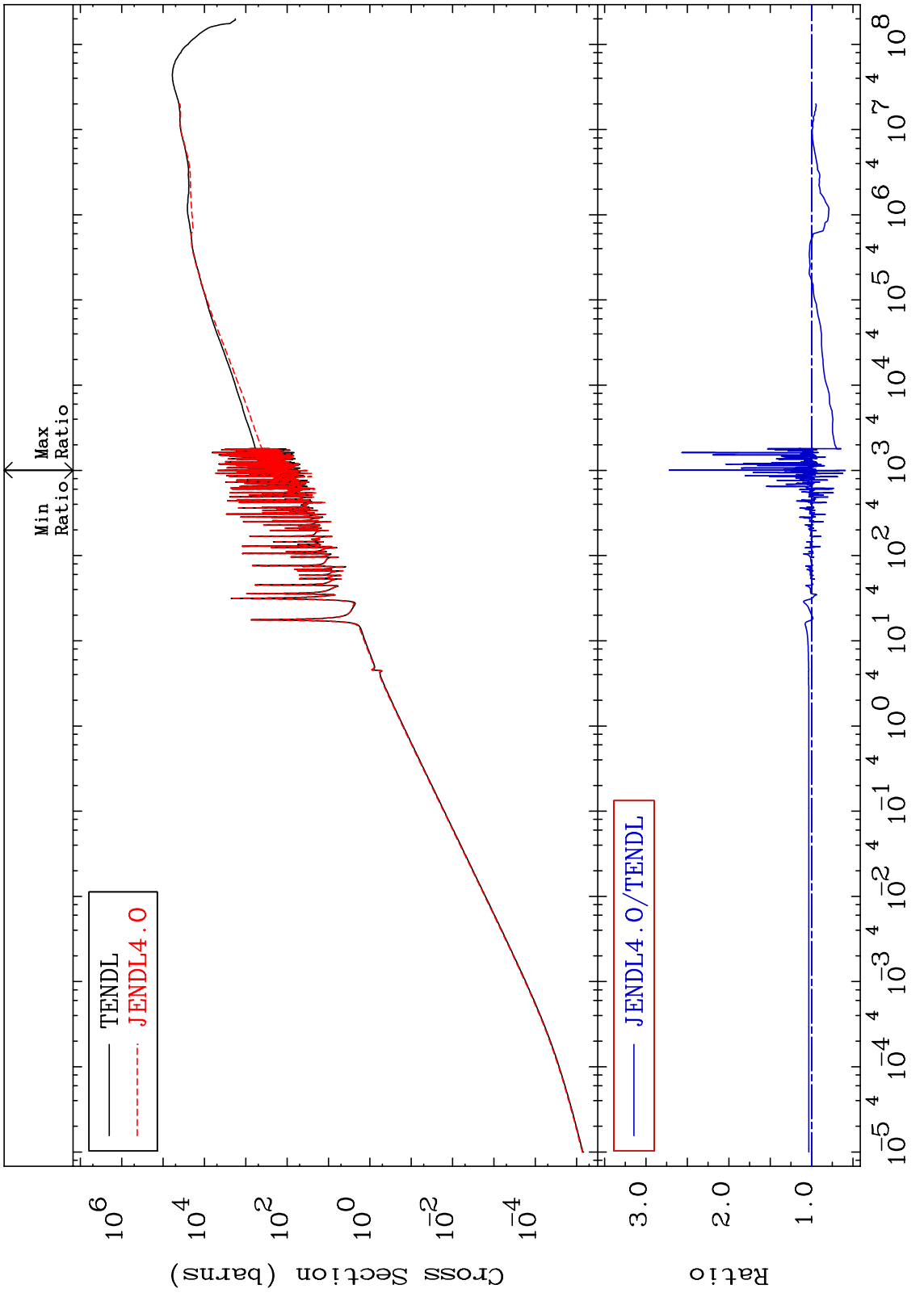
MAT 7040 He-4 Production Cross Section 70-Yb-173
 -52.25 To 3521. %



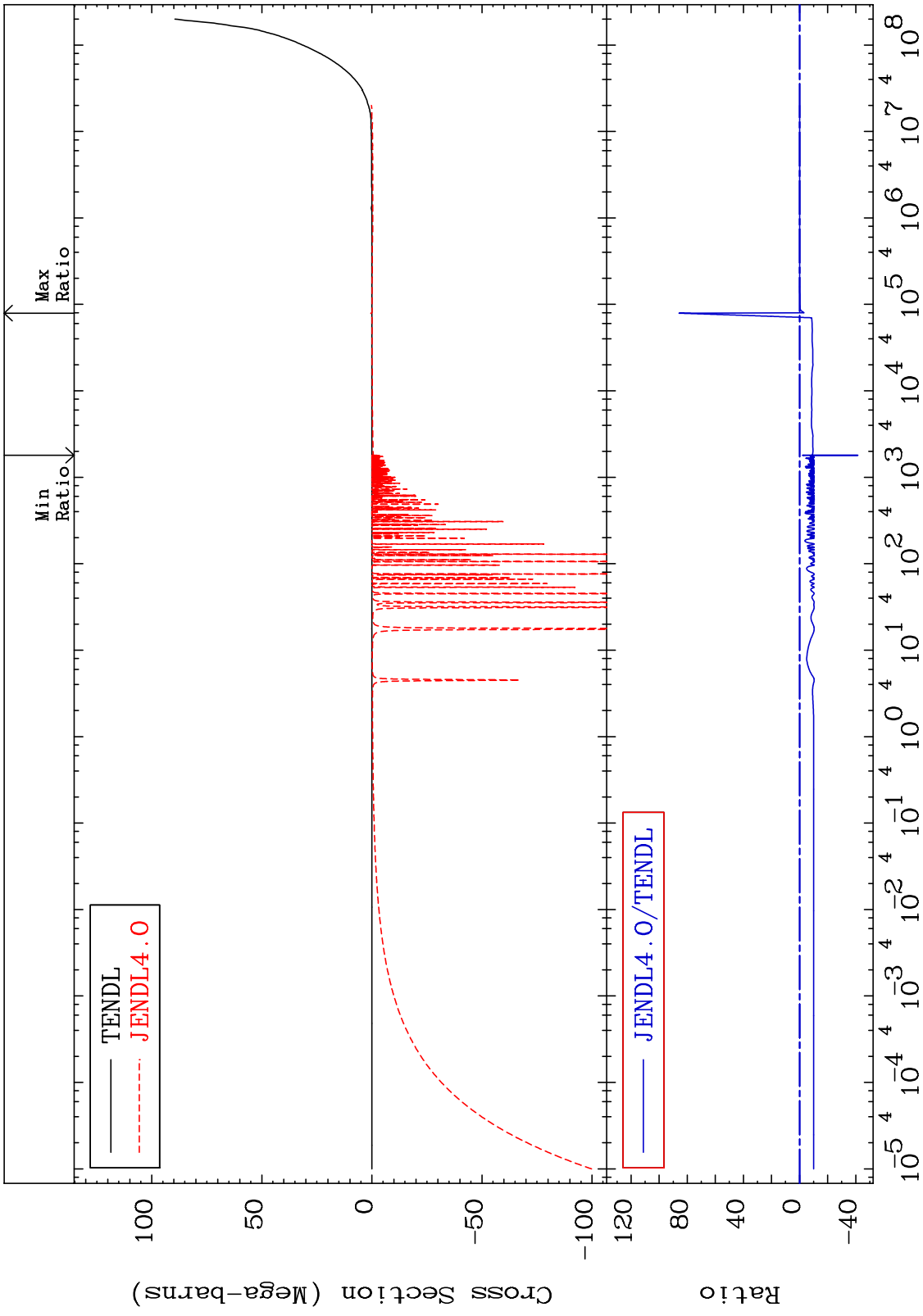
MAT 7040 Kerma total (eV-barns) Cross Section 70-Yb-173
 -9999. To 6101. %



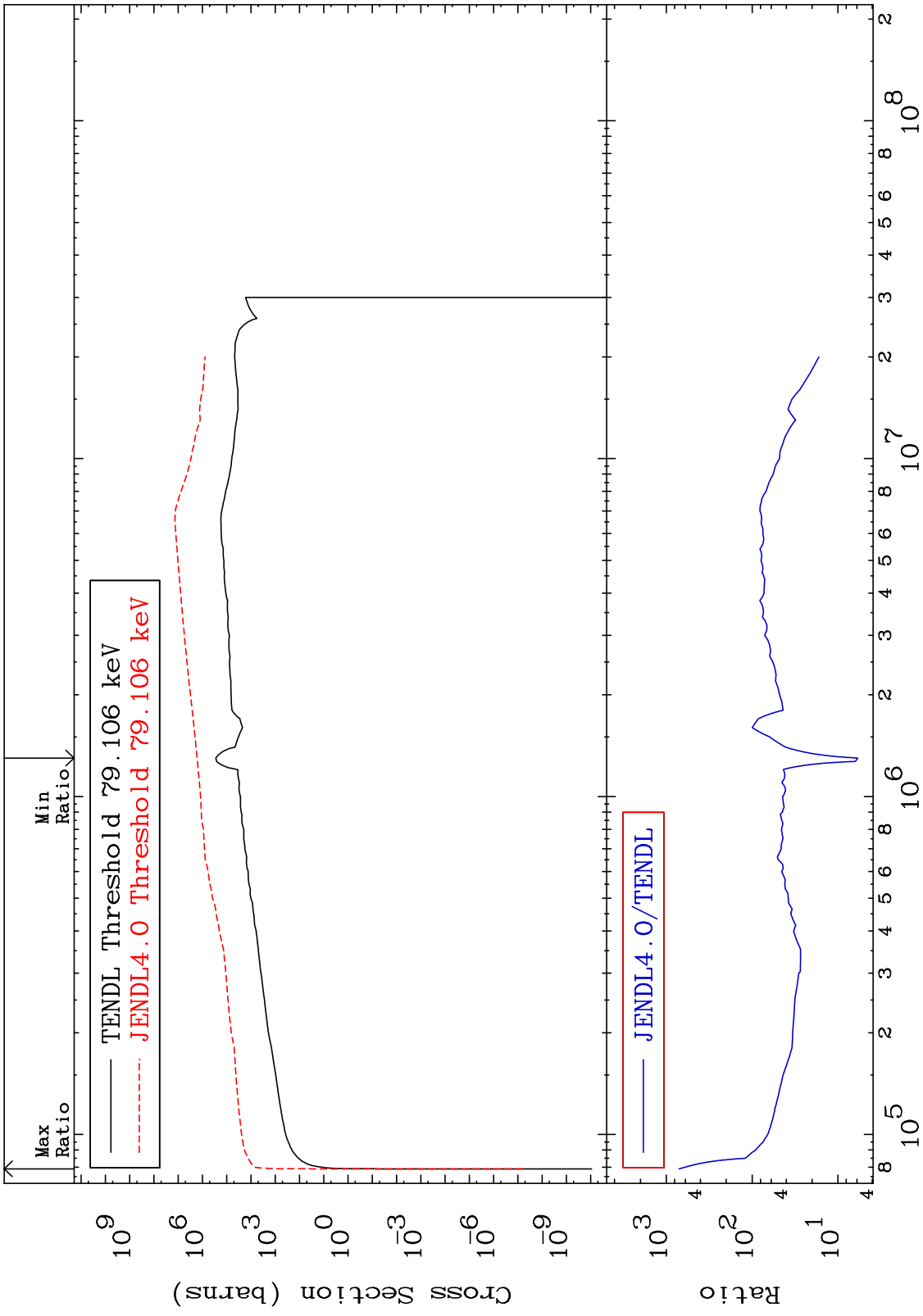
MAT 7040
Kerma elastic Cross Section
70-Yb-173
-40.67 To 172.1 %



MAT 7040 Kerma non-elastic (all but mt2) 70-Yb-173
 Cross Section -9999. To 9999. %



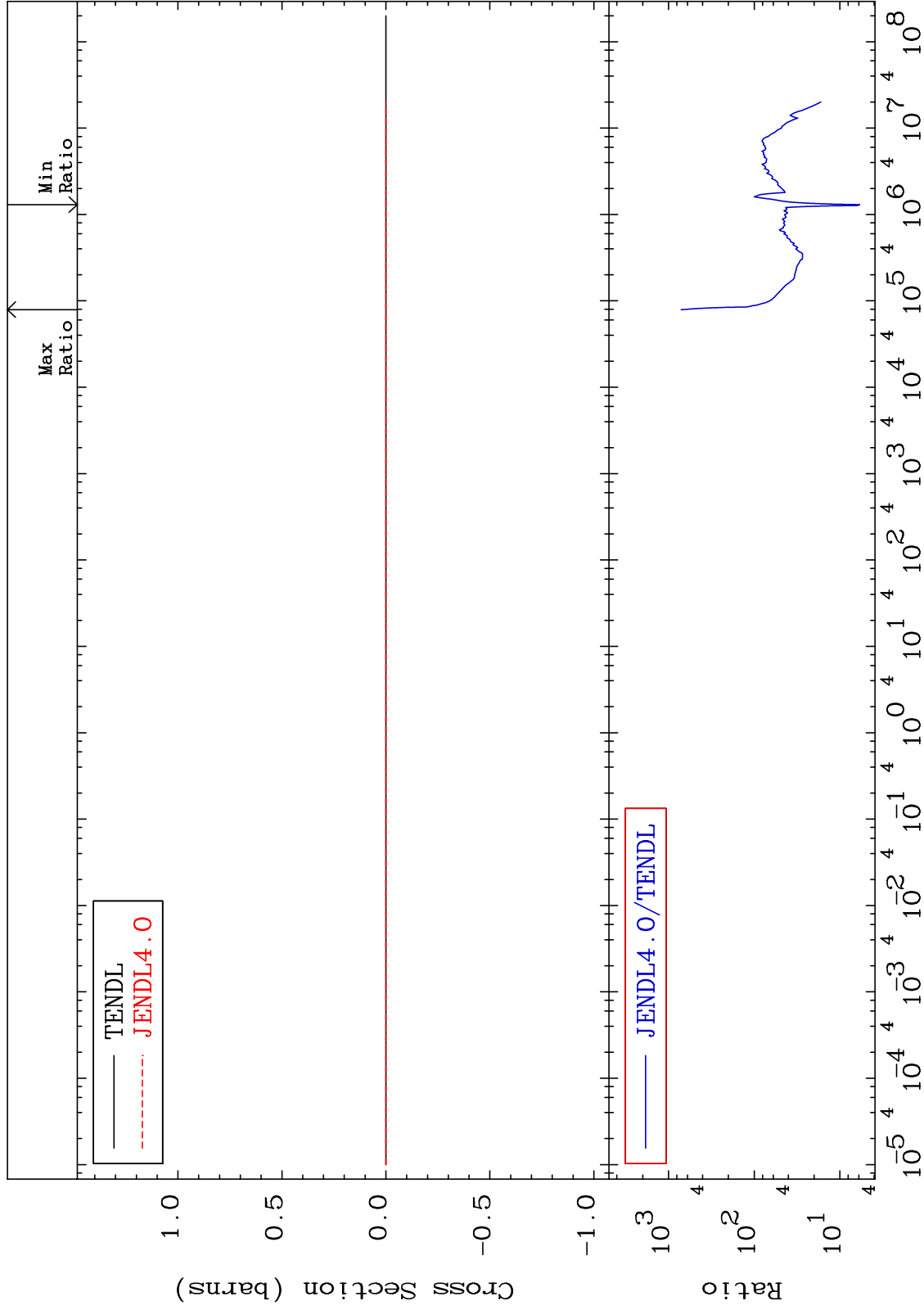
MAT 7040 Kerma inelastic (mt51-91) 70-Yb-173
 Cross Section 486.6 To 9999. %



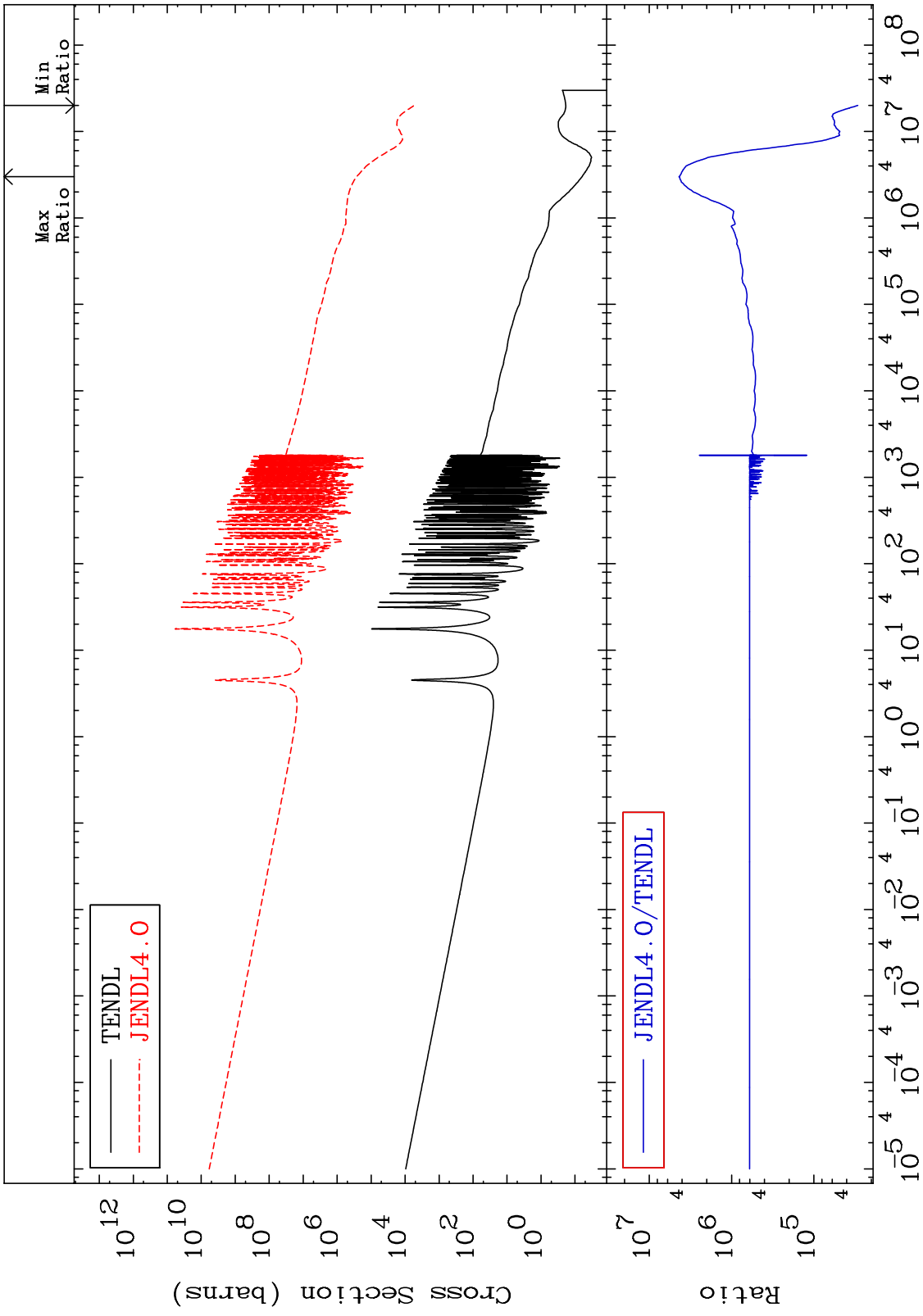
MAT 7040

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

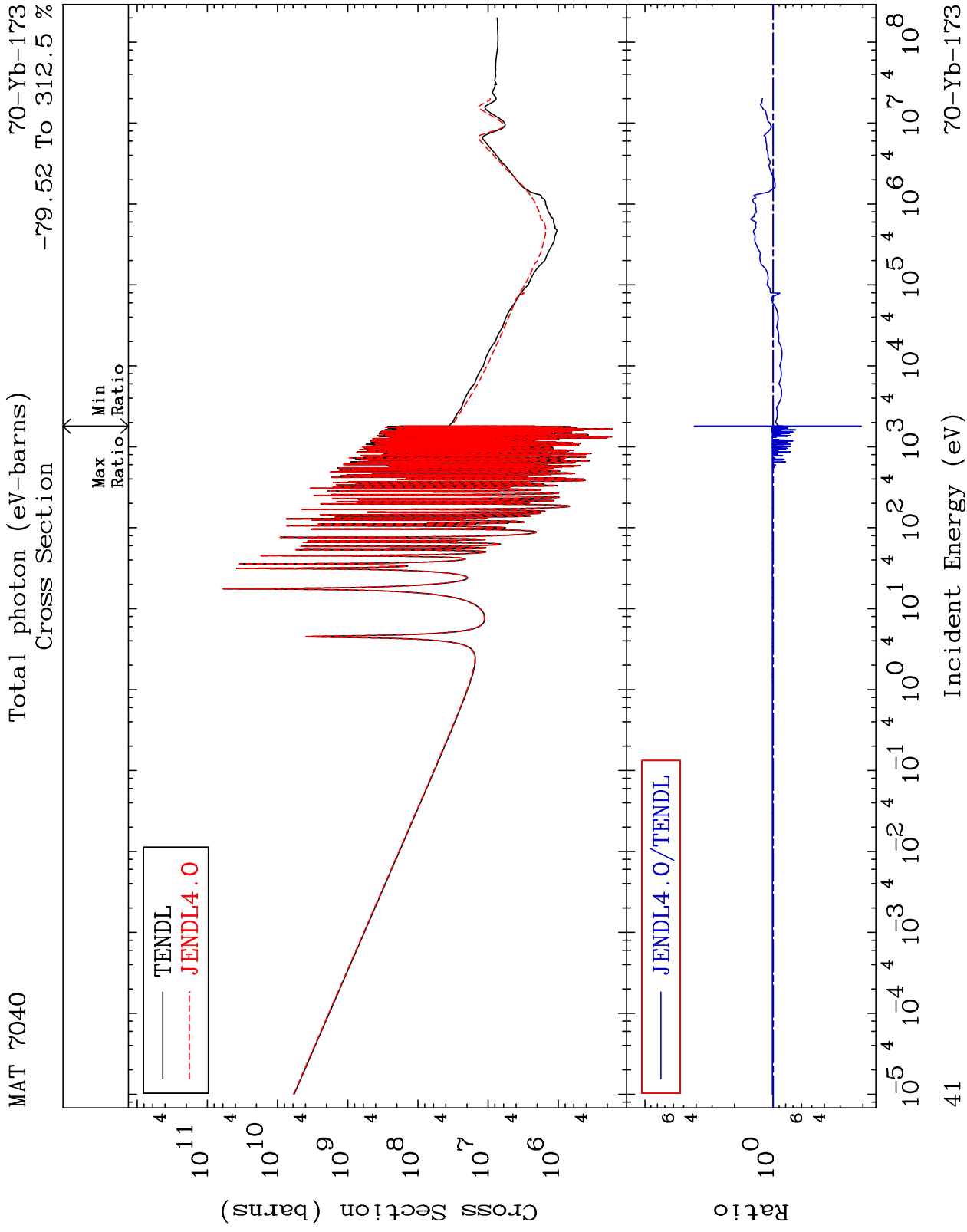
70-Yb-173
486.6 To 9999. %



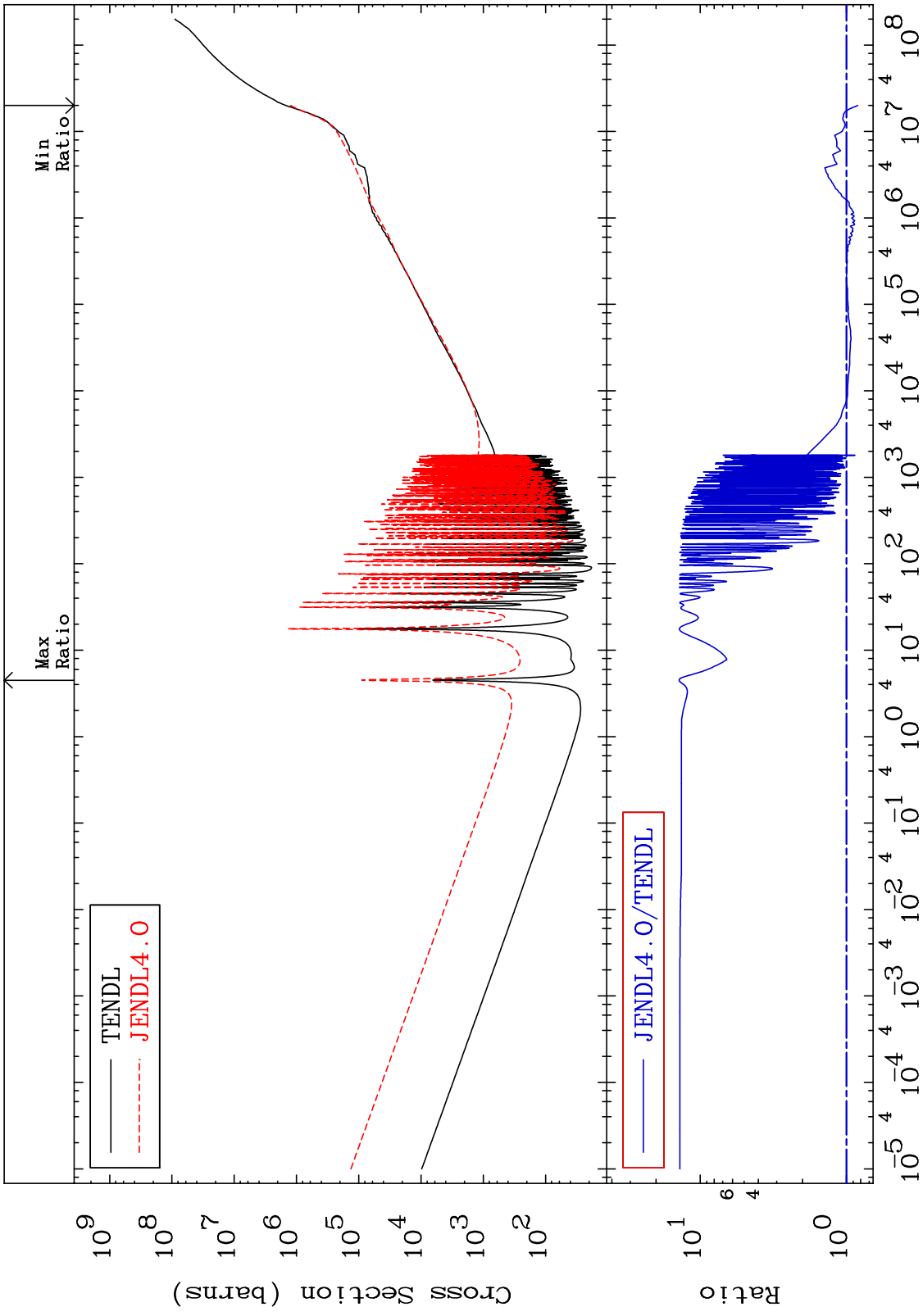
MAT 7040 Kerma capture (mt102) 70-Yb-173
 Cross Section 9999. % To 9999. %



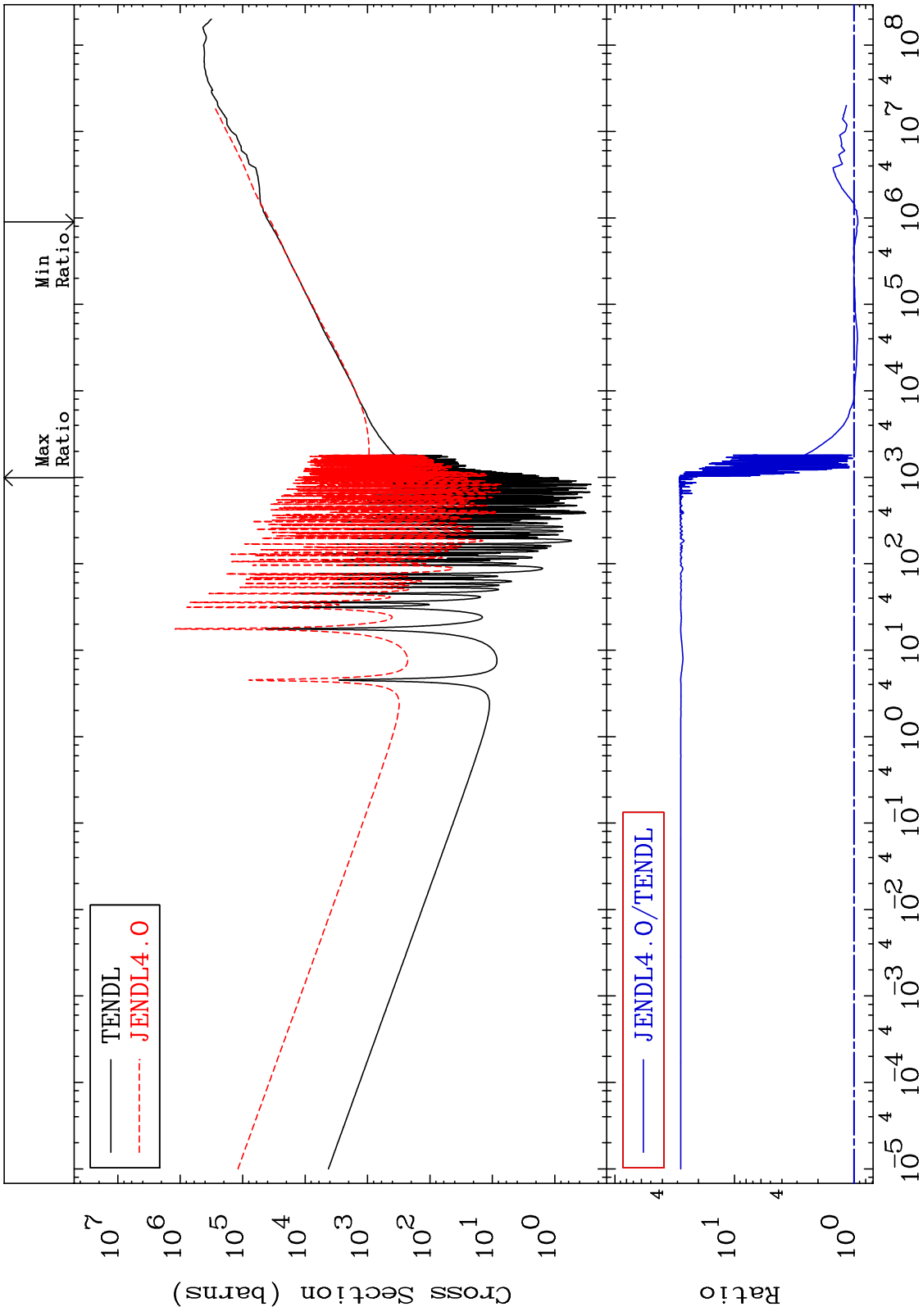
40 70-Yb-173



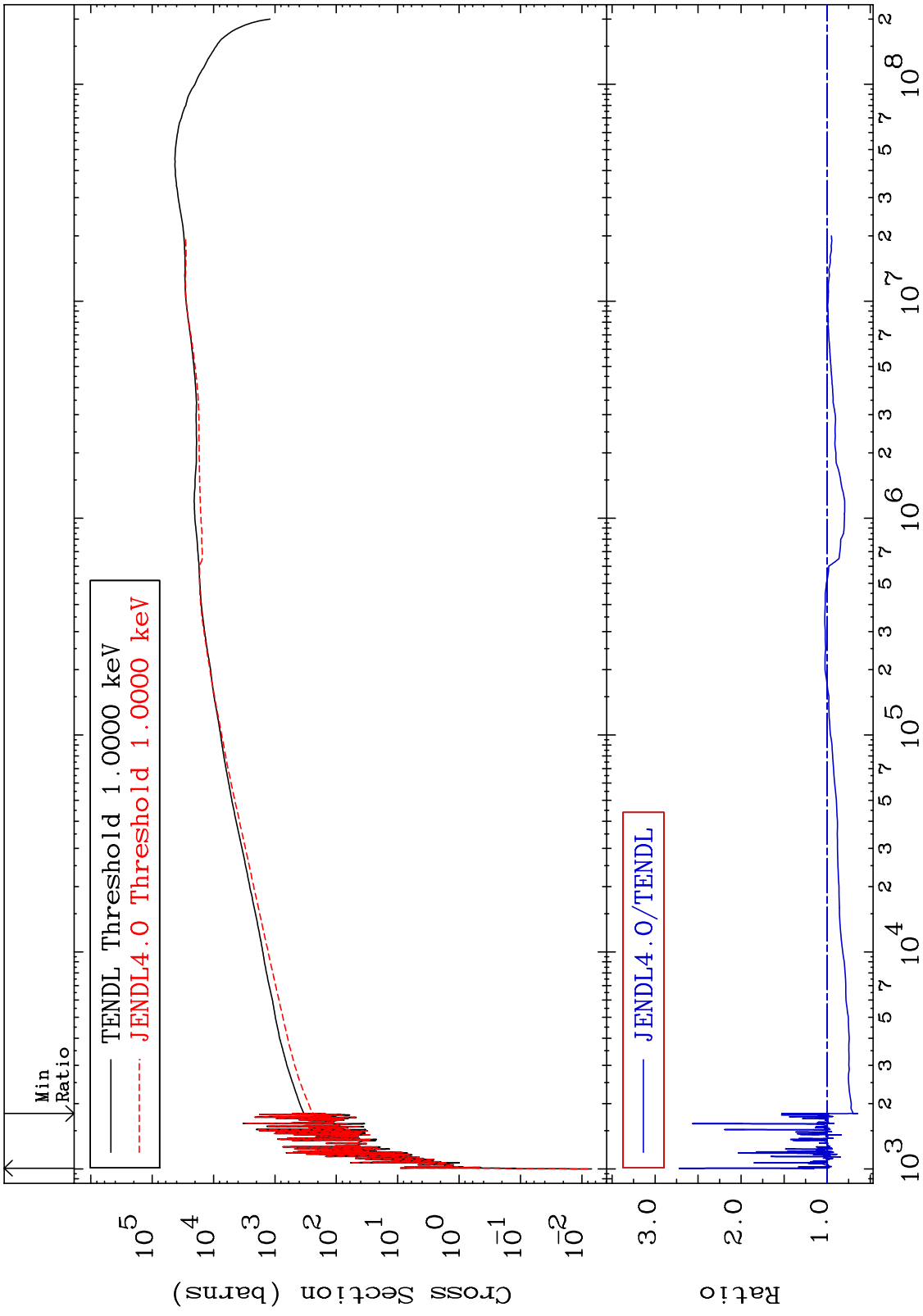
MAT 7040 Total kinematic kerma (high limit) 70-Yb-173
 Cross Section -16.36 To 1292. %



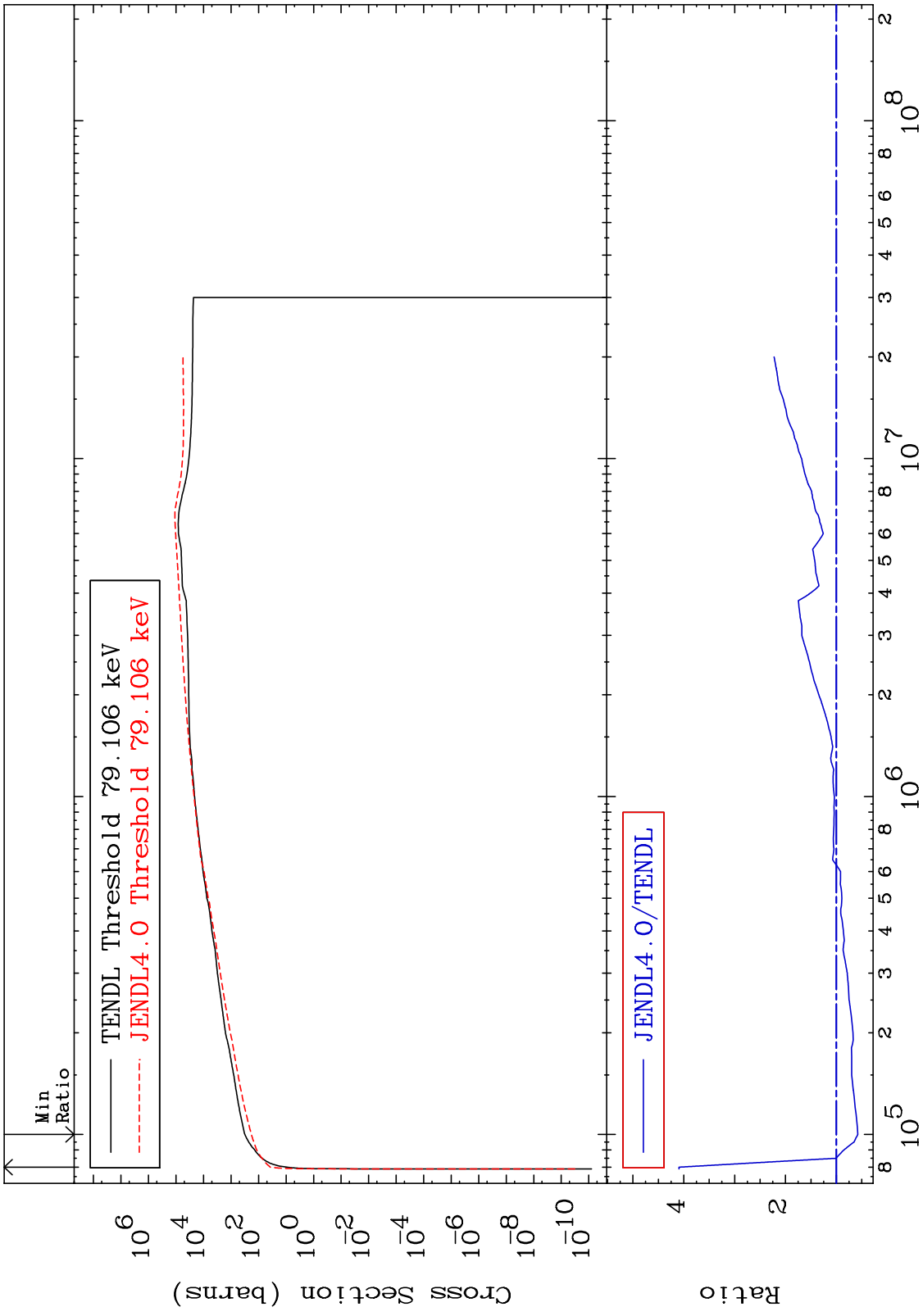
MAT 7040 Dpa total (eV-barns) 70-Yb-173
 Cross Section -7.183 To 2804. %



MAT 7040 Dpa elastic (mt2) 70-Yb-173
Cross Section -35.68 To 172.1 %

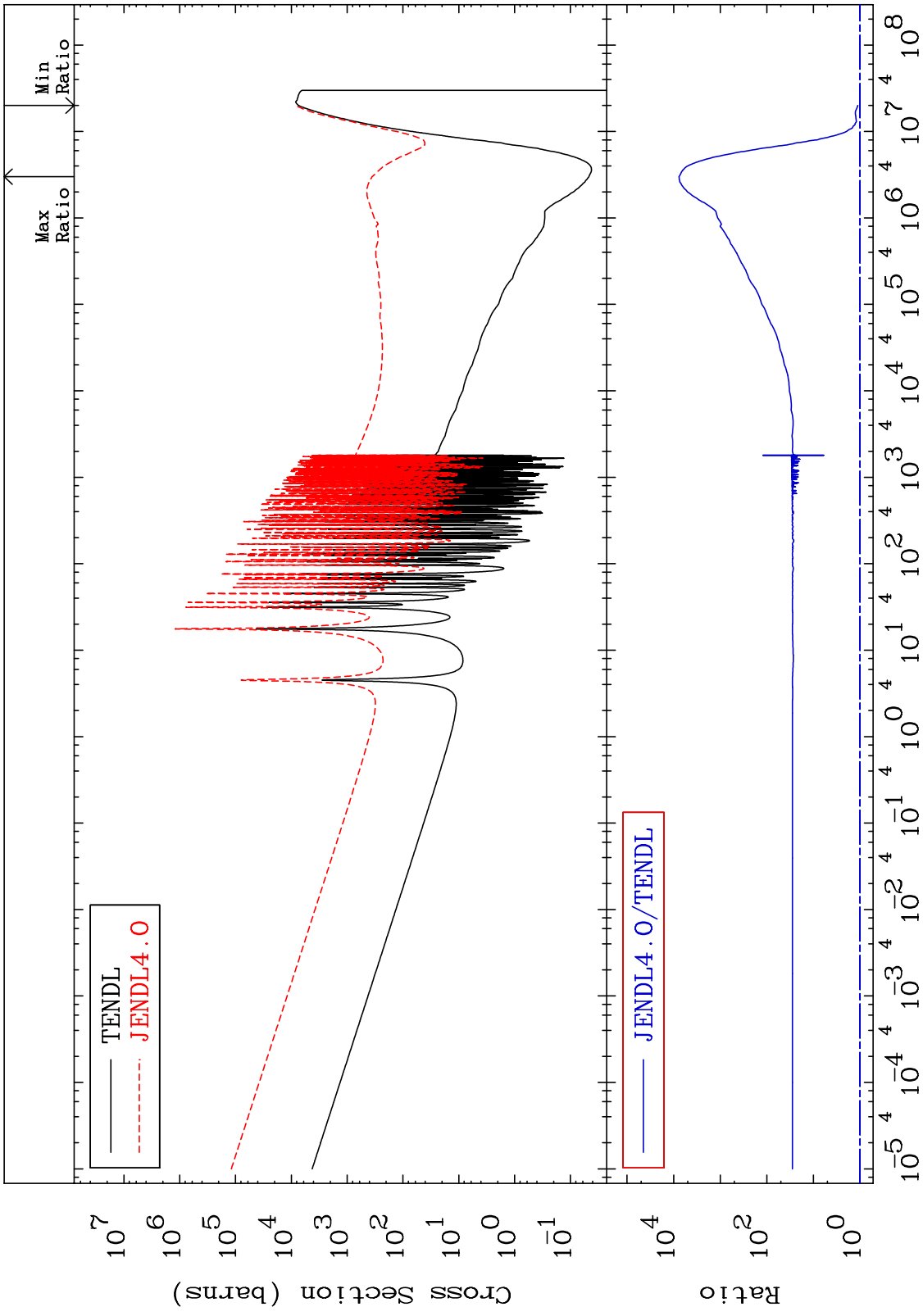


MAT 7040 Dpa inelastic (mt51-91) 70-Yb-173
Cross Section -42.23 To 309.3 %

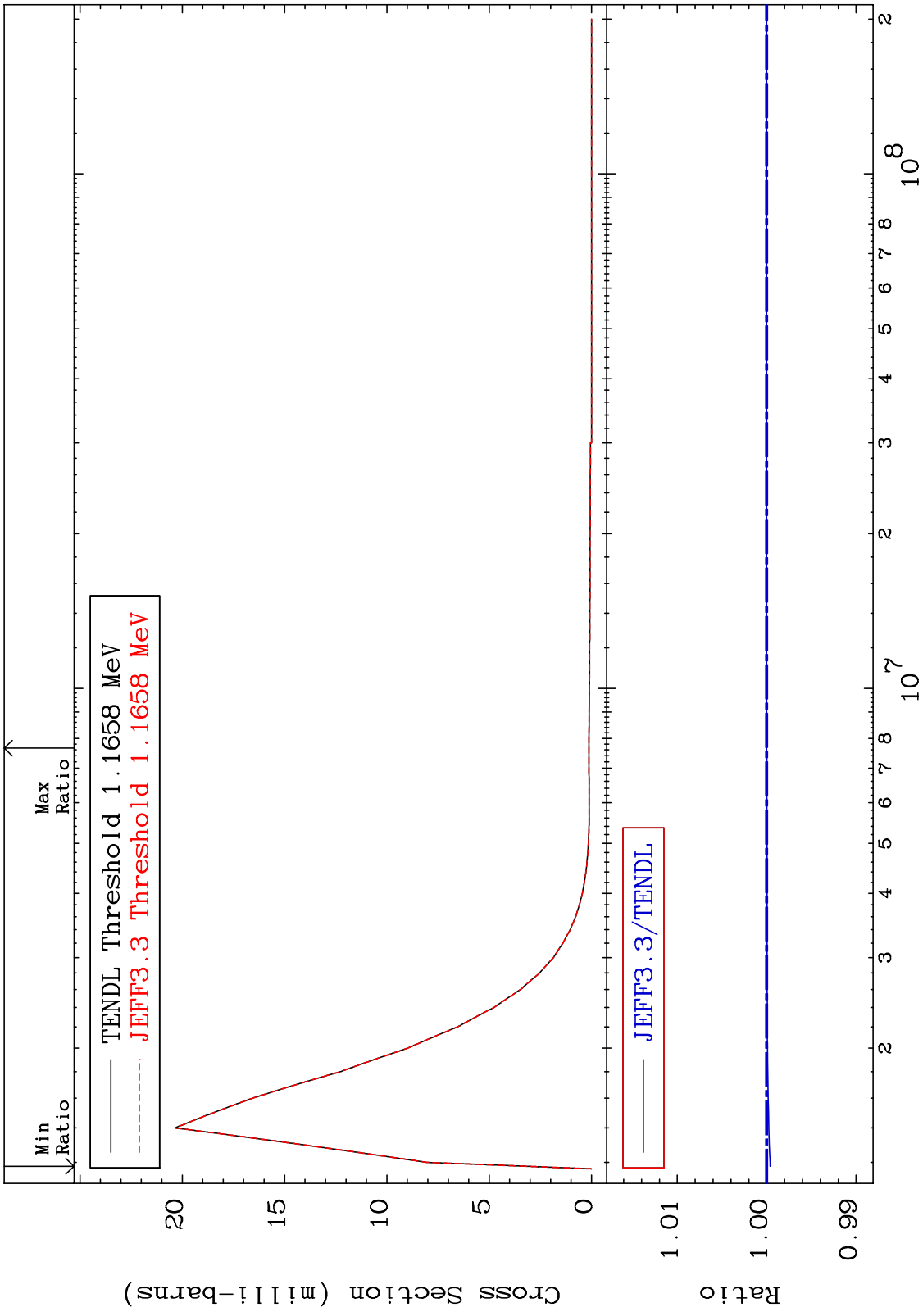


45 Incident Energy (eV) 70-Yb-173

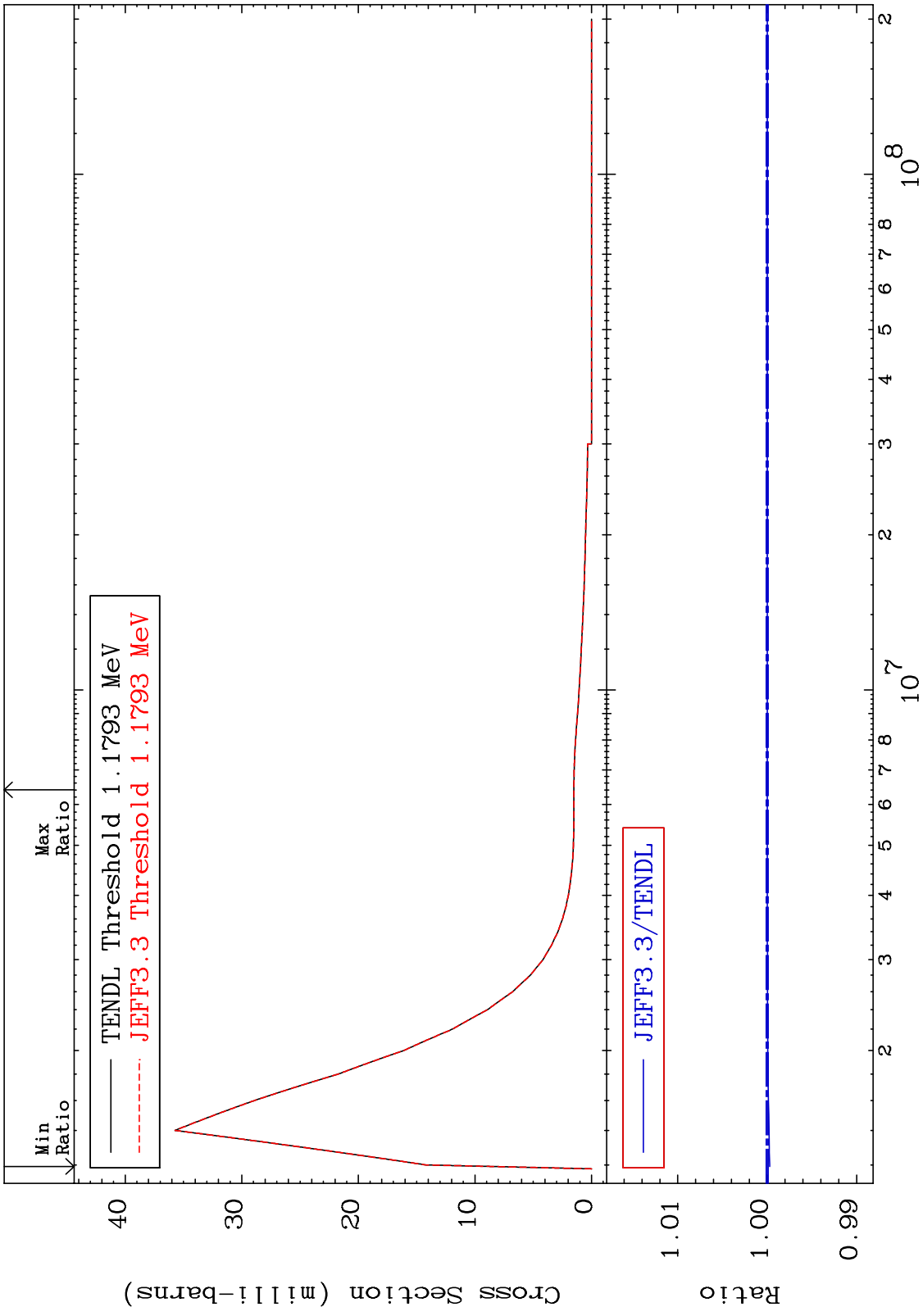
MAT 7040 Dpa disappearance (mt102 -120) 70-Yb-173
 Cross Section 10.95 To 9999. %



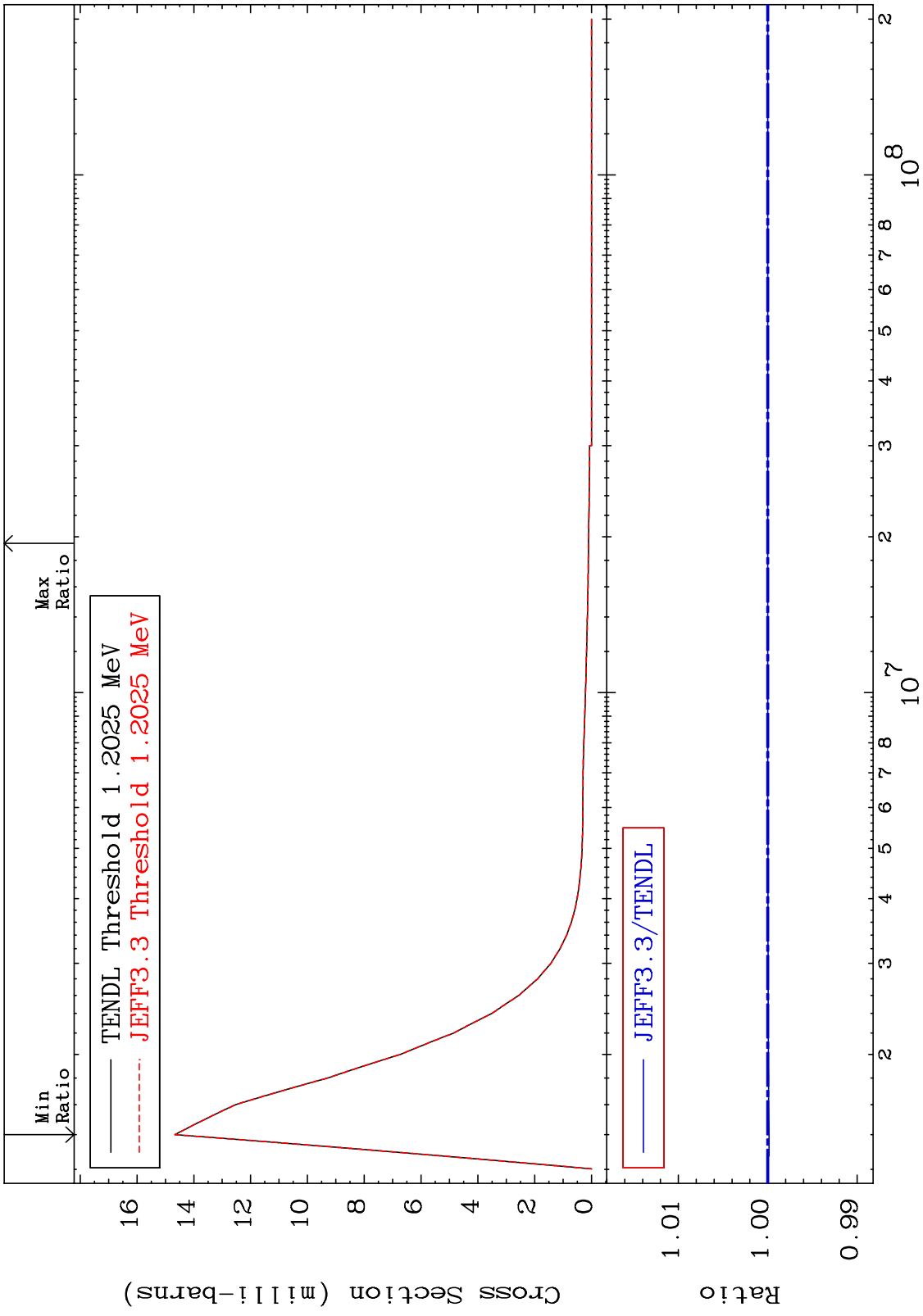
MAT 7040 MT= 78 (n,n') Level Cross Section 70-Yb-173
 -0.039 To 0.000 %



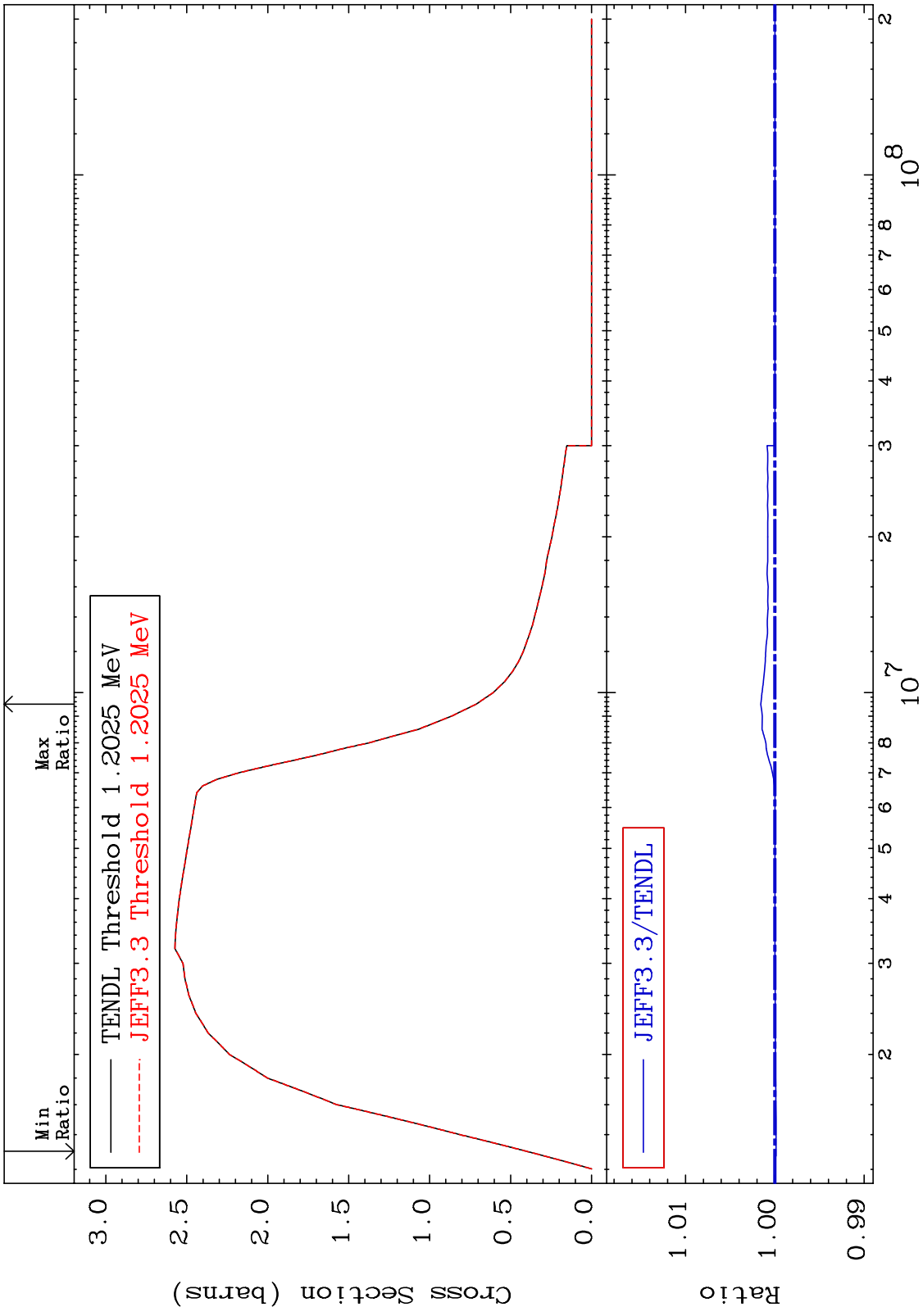
MAT 7040 MT= 79 (n,n') Level Cross Section 70-Yb-173 -0.028 To 0.000 %



MAT 7040 MT= 80 (n,n') Level Cross Section -0.015 To 0.000 % 70-Yb-173

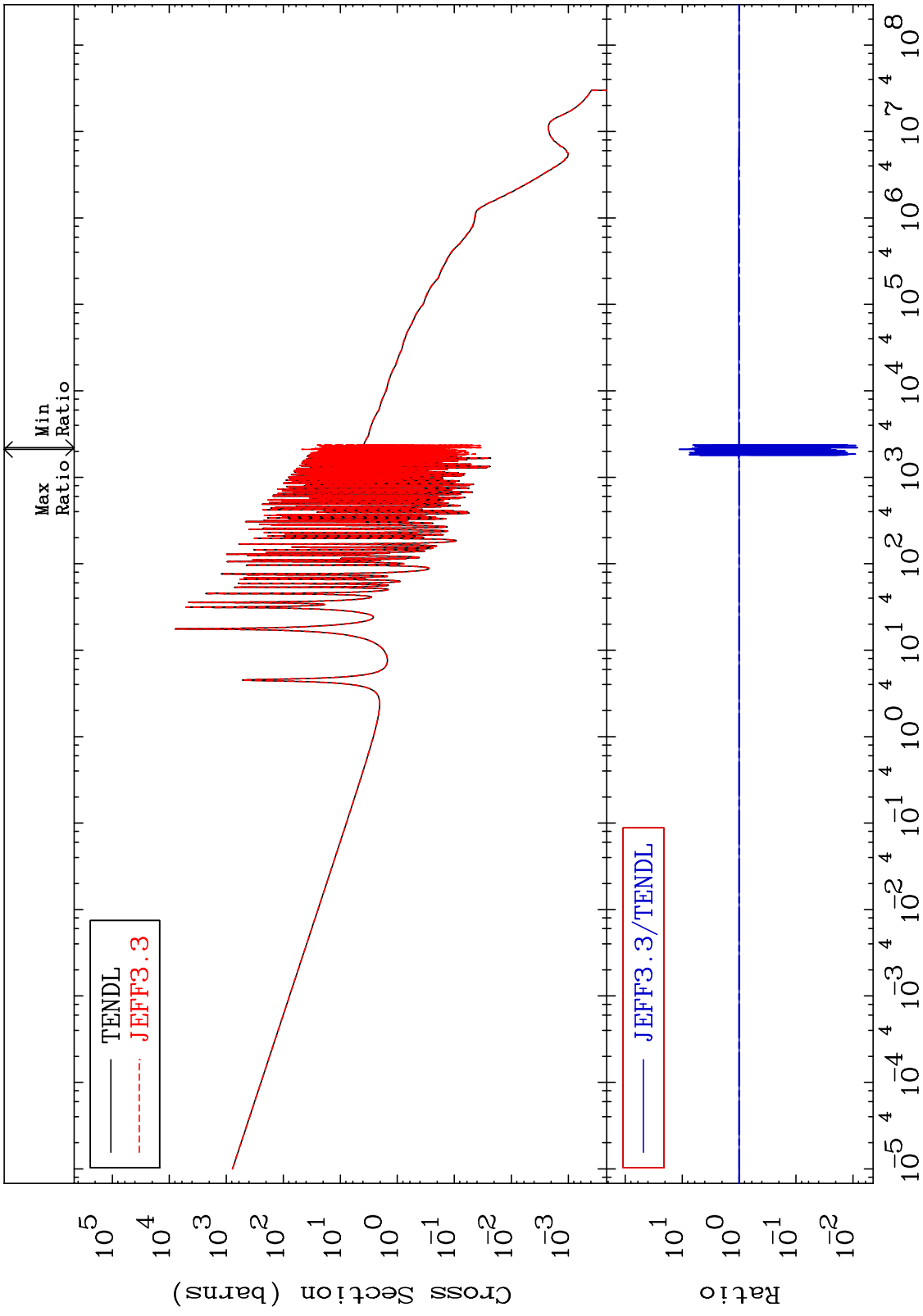


MAT 7040 (n,n') Continuum Cross Section 70-Yb-173 -0.014 To 0.158 %



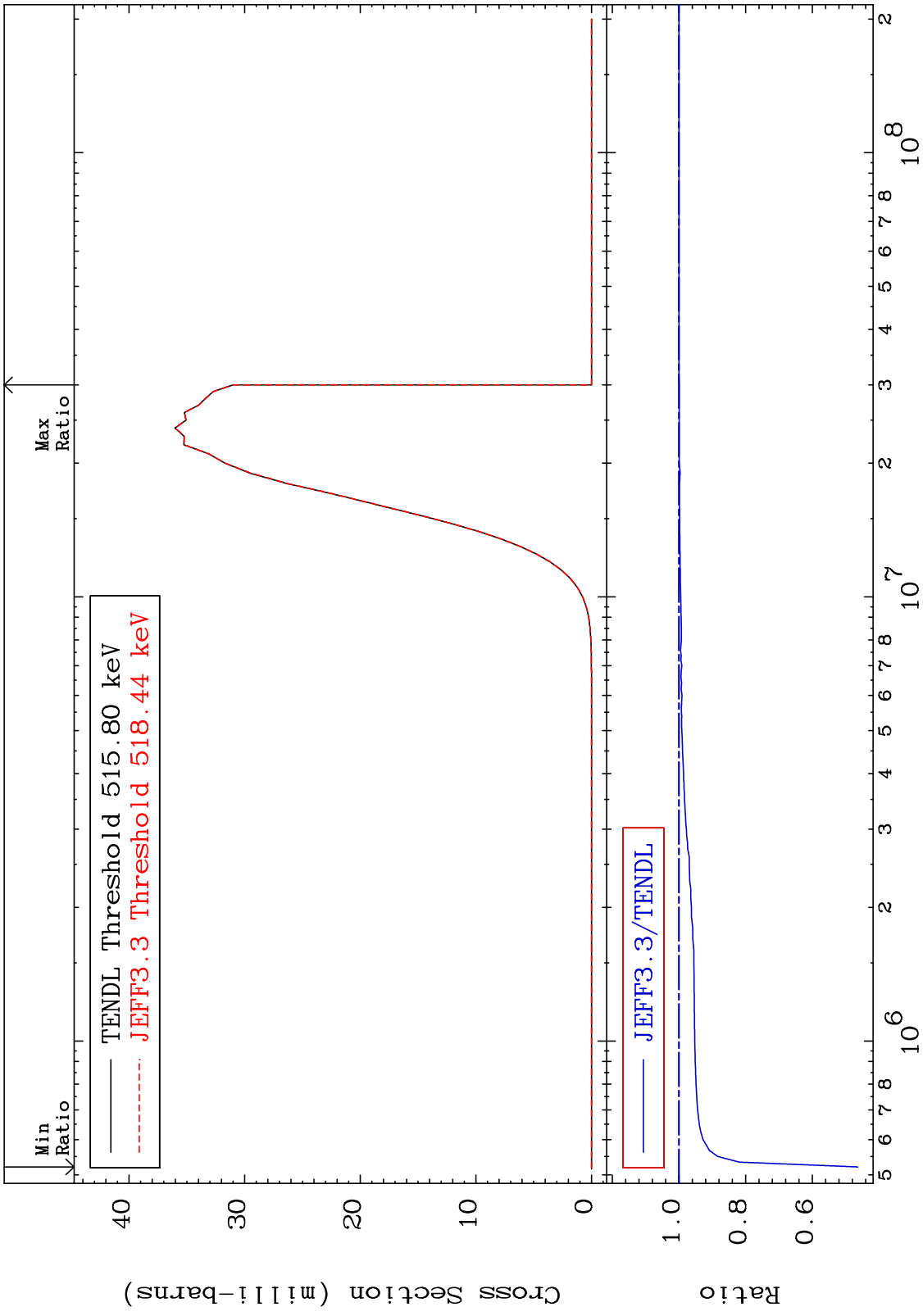
50 70-Yb-173

MAT 7040 70-Yb-173
-99.18 To 1036. %
 (n, γ)
 Cross Section

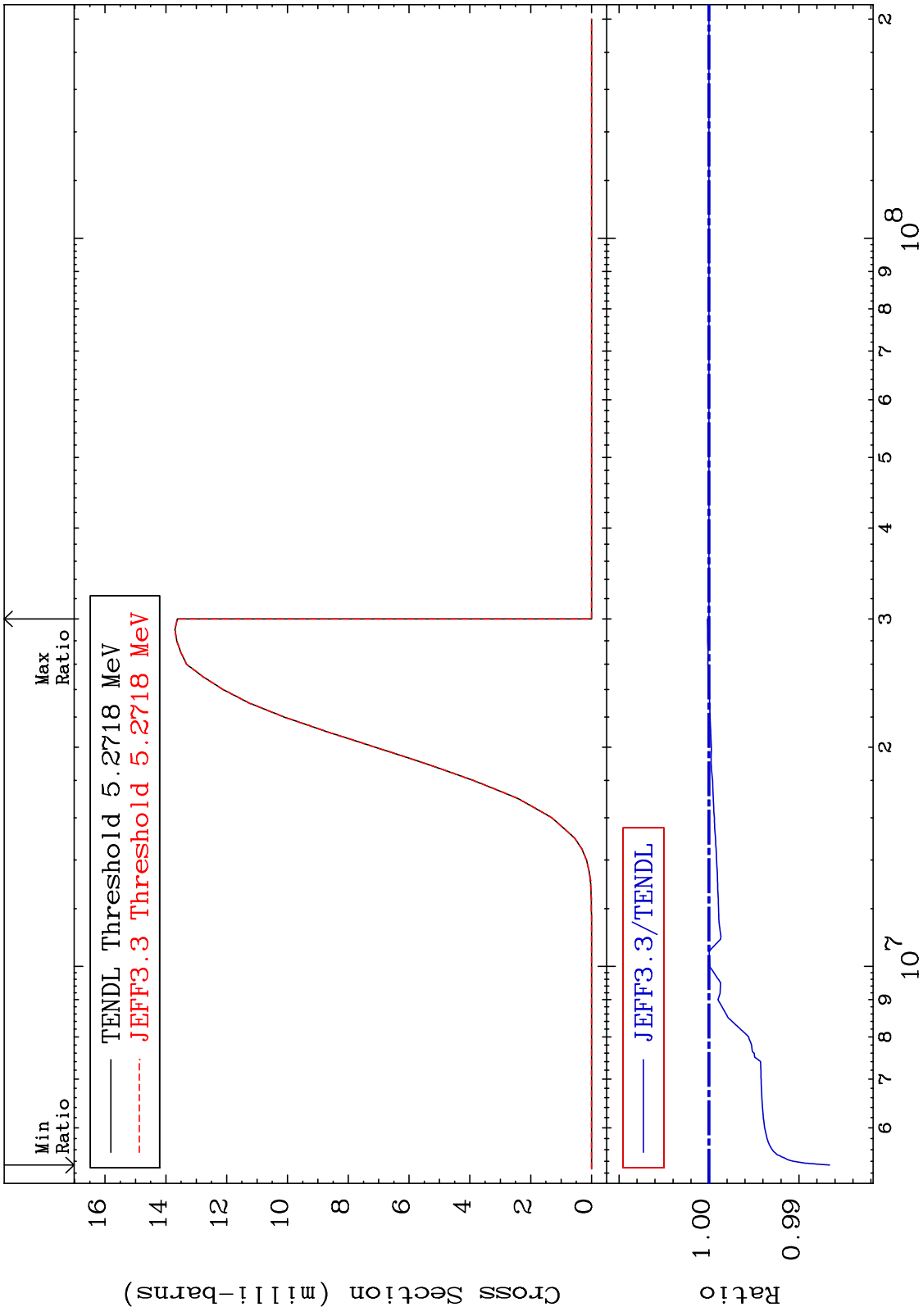


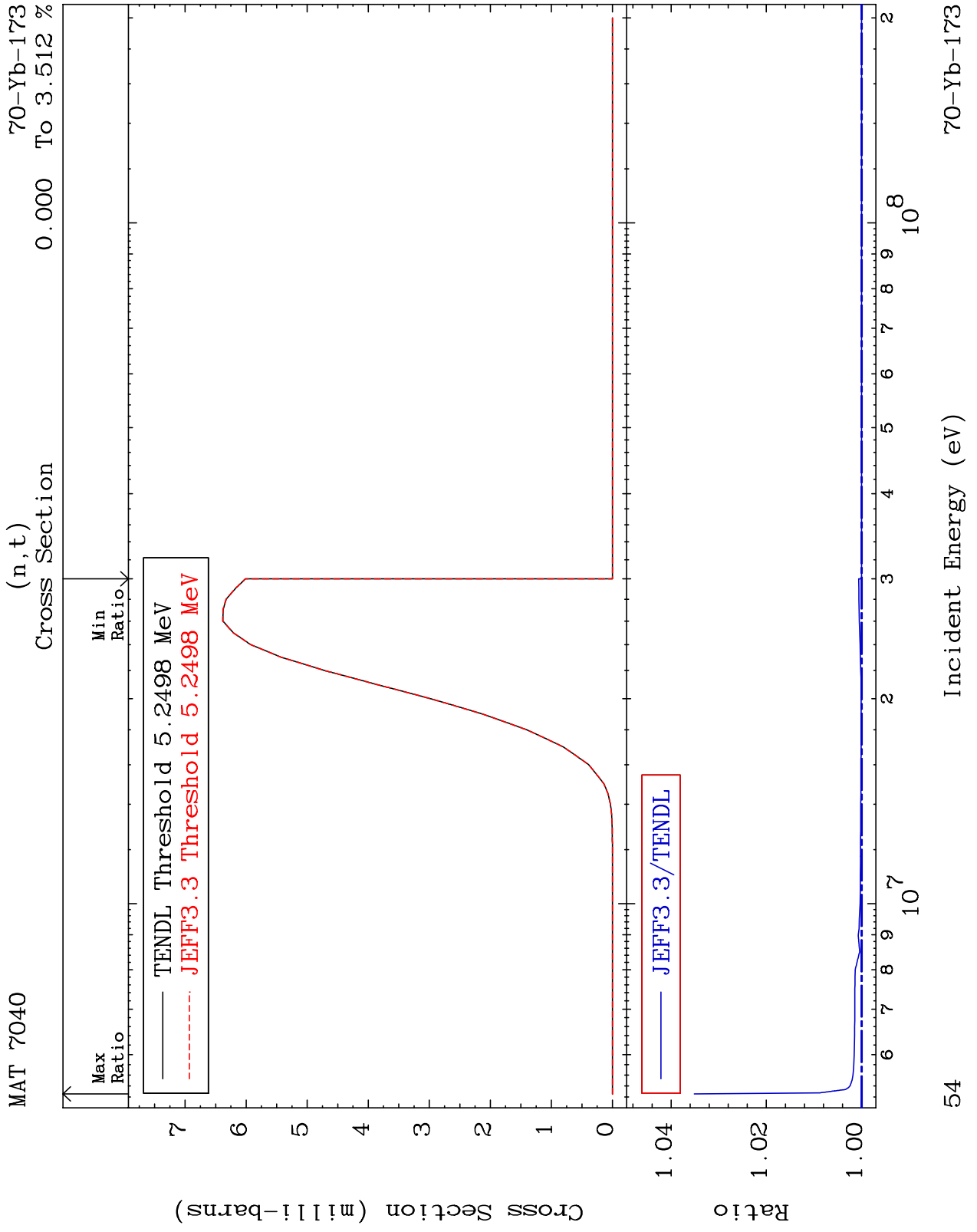
51 70-Yb-173

MAT 7040 (n,p) Cross Section 70-Yb-173
 -53.65 To 0.000 %

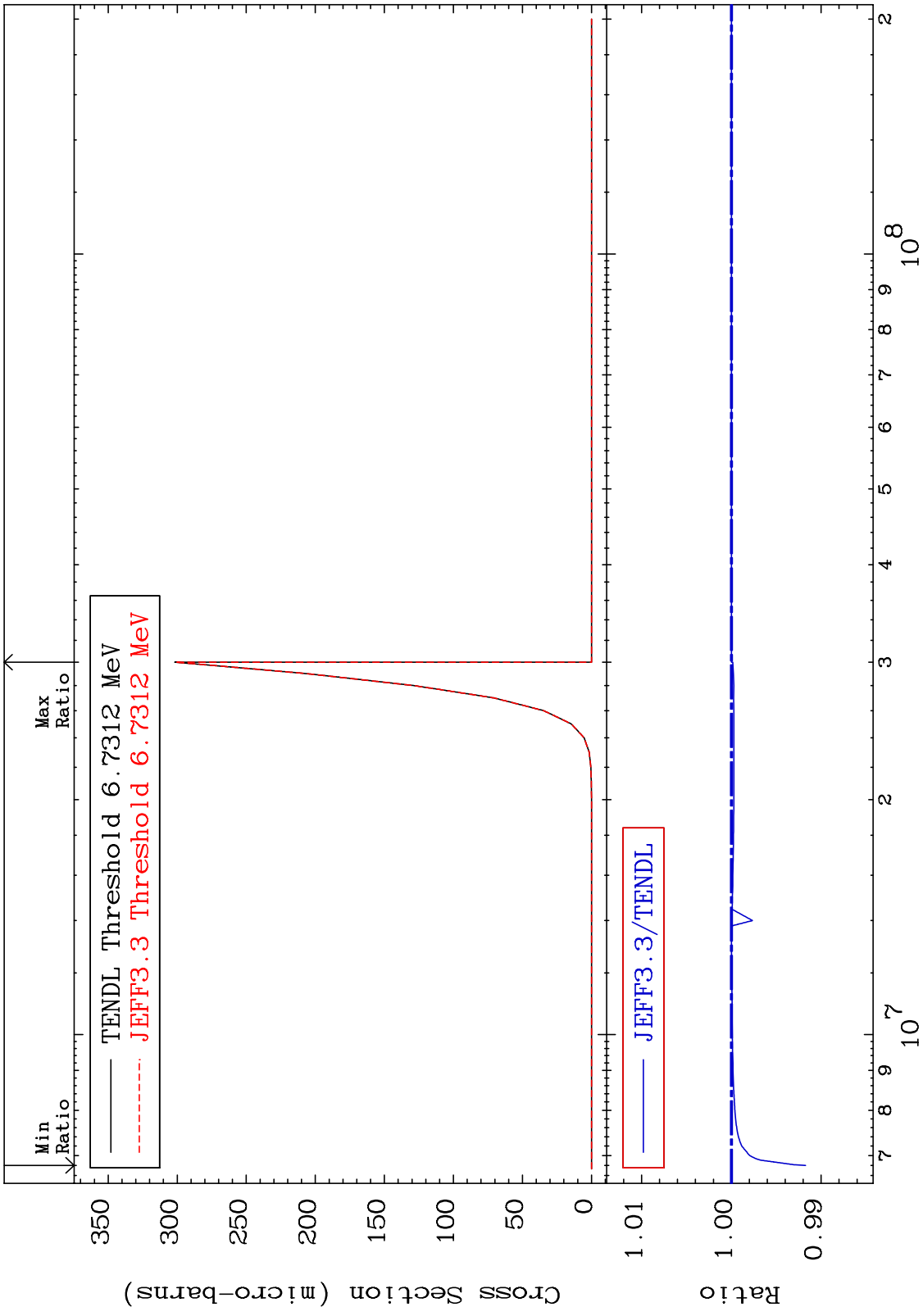


MAT 7040 (n,d) 70-Yb-173
 Cross Section -1.339 To 0.018 %

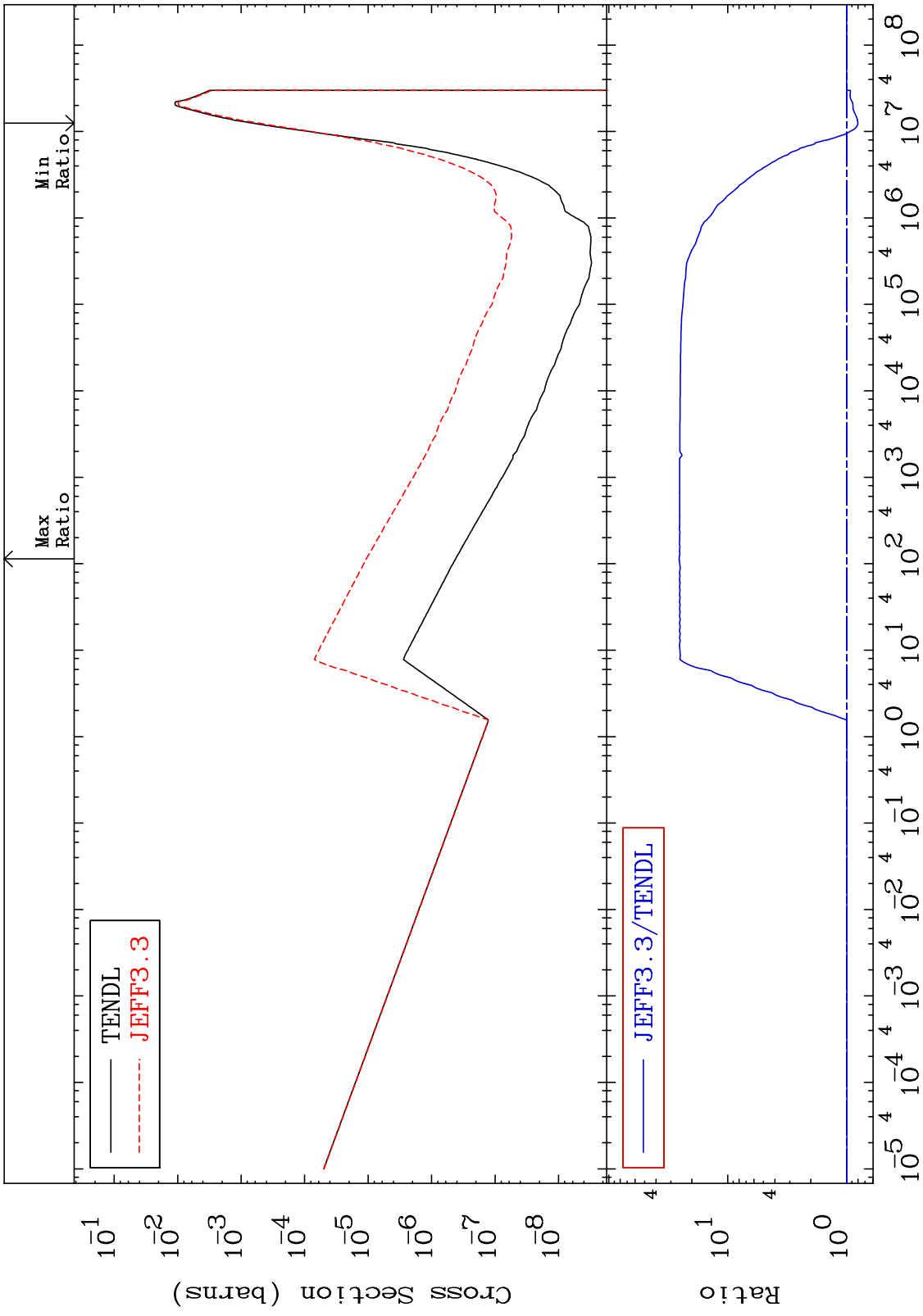




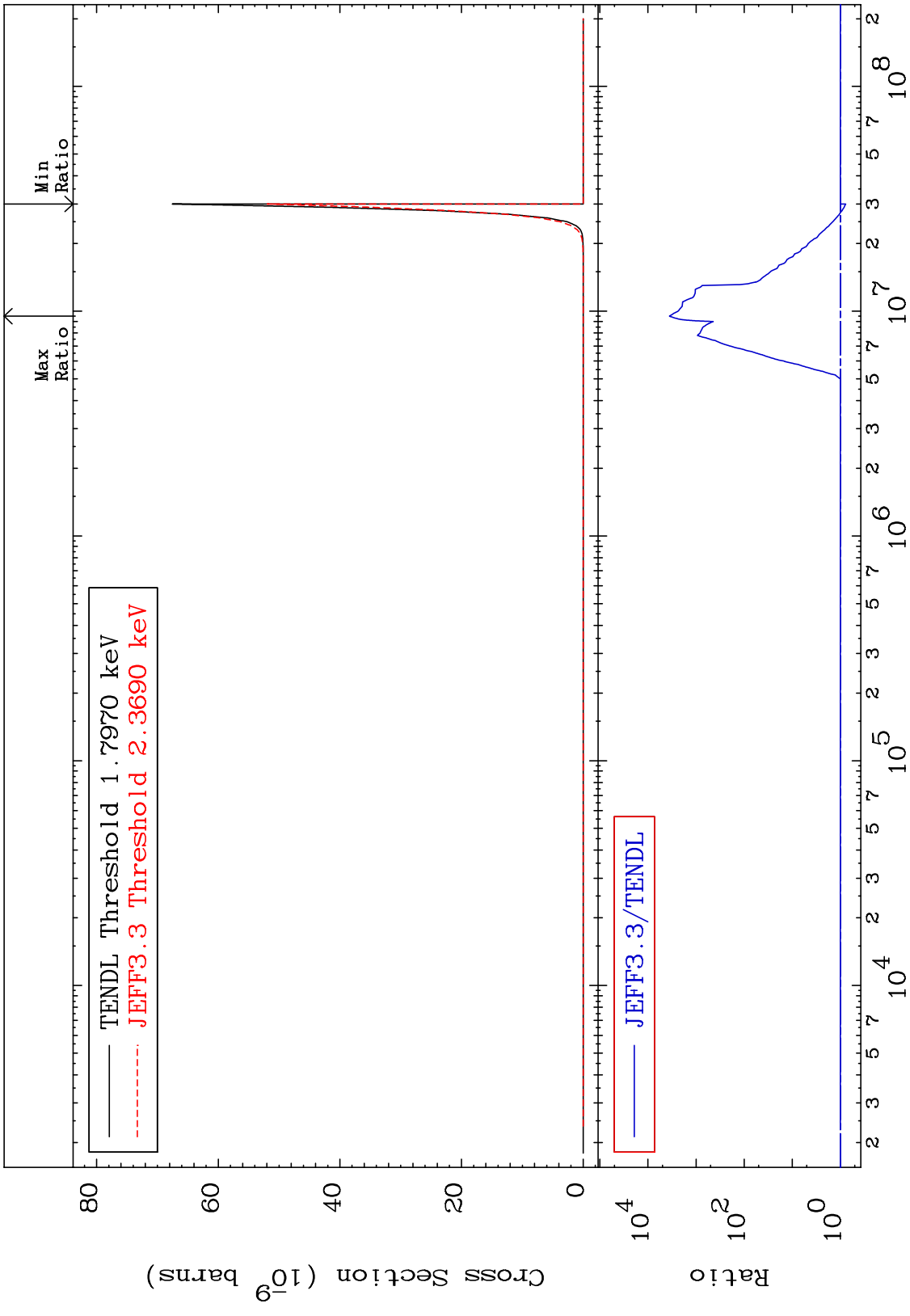
MAT 7040 (n, He-3) Cross Section 70-Yb-173 -0.826 To 0.000 %



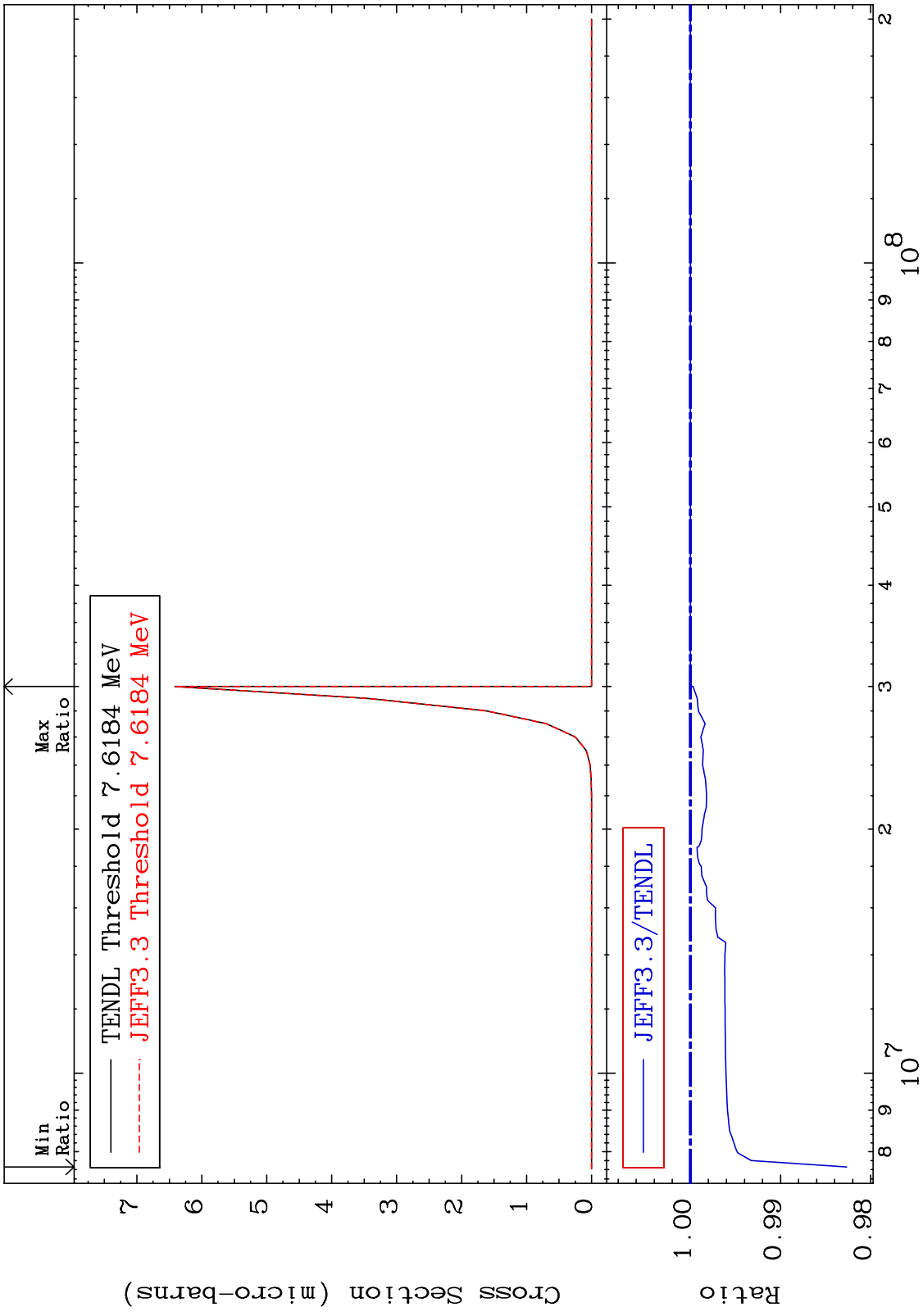
MAT 7040 70-Yb-173
-19.65 To 2463. %
 (n, α)
 Cross Section



MAT 7040 $(n, 2\alpha)$ Cross Section 70-Yb-173
 -23.11 To 9999. %

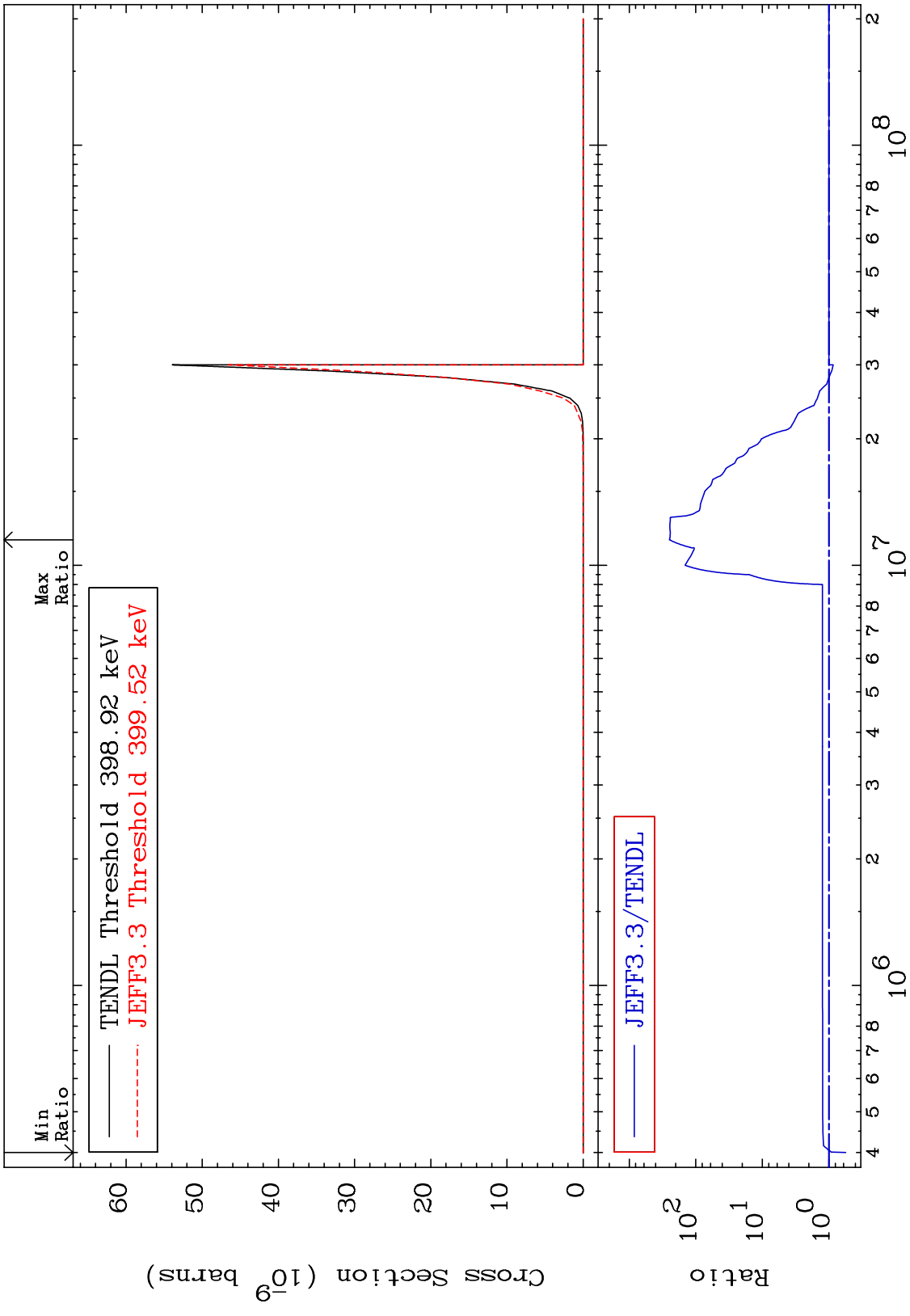


MAT 7040 $(n, 2p)$ $^{70}\text{Yb-173}$
 Cross Section -1.732 To 0.000 %

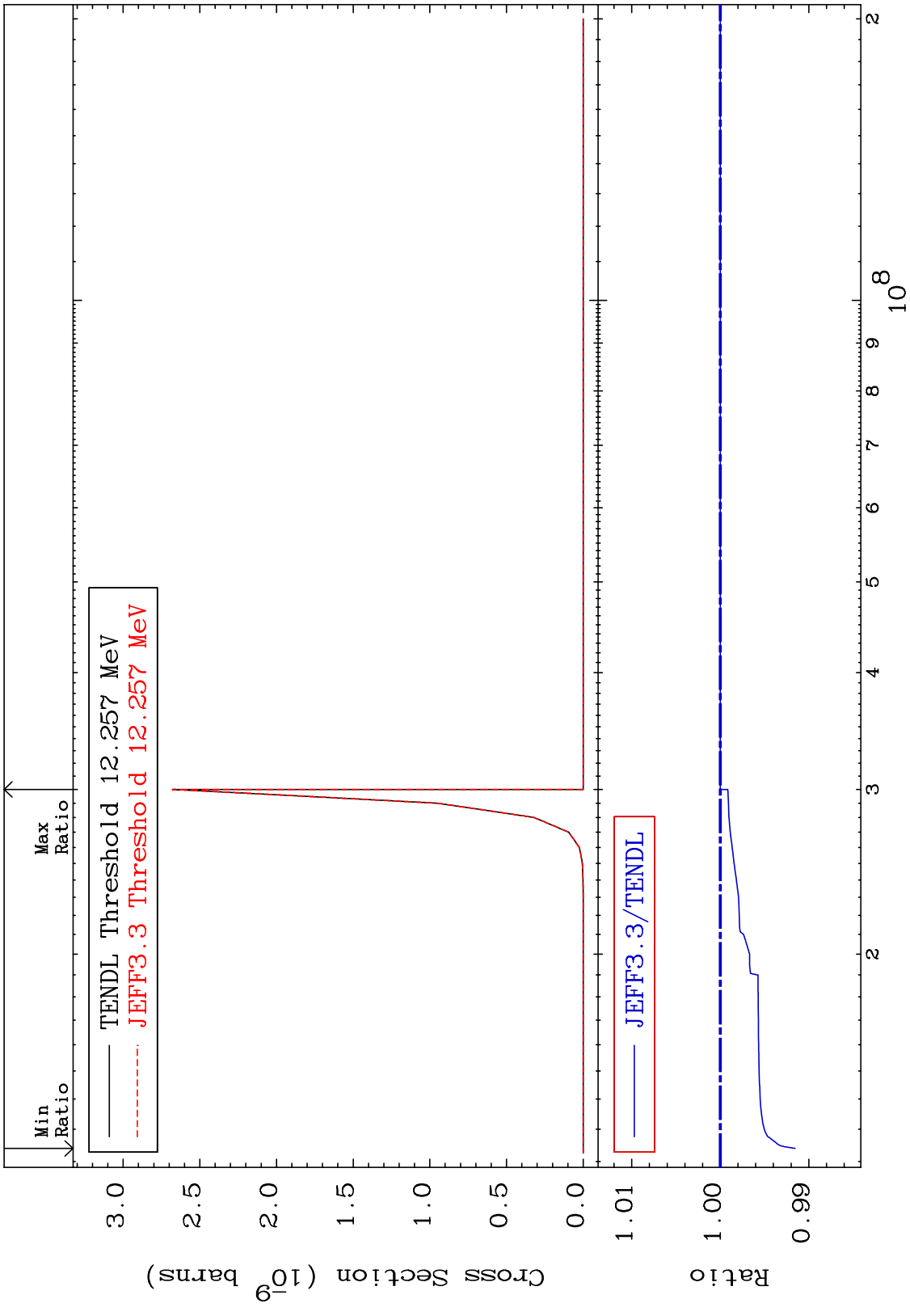


58 $^{70}\text{Yb-173}$

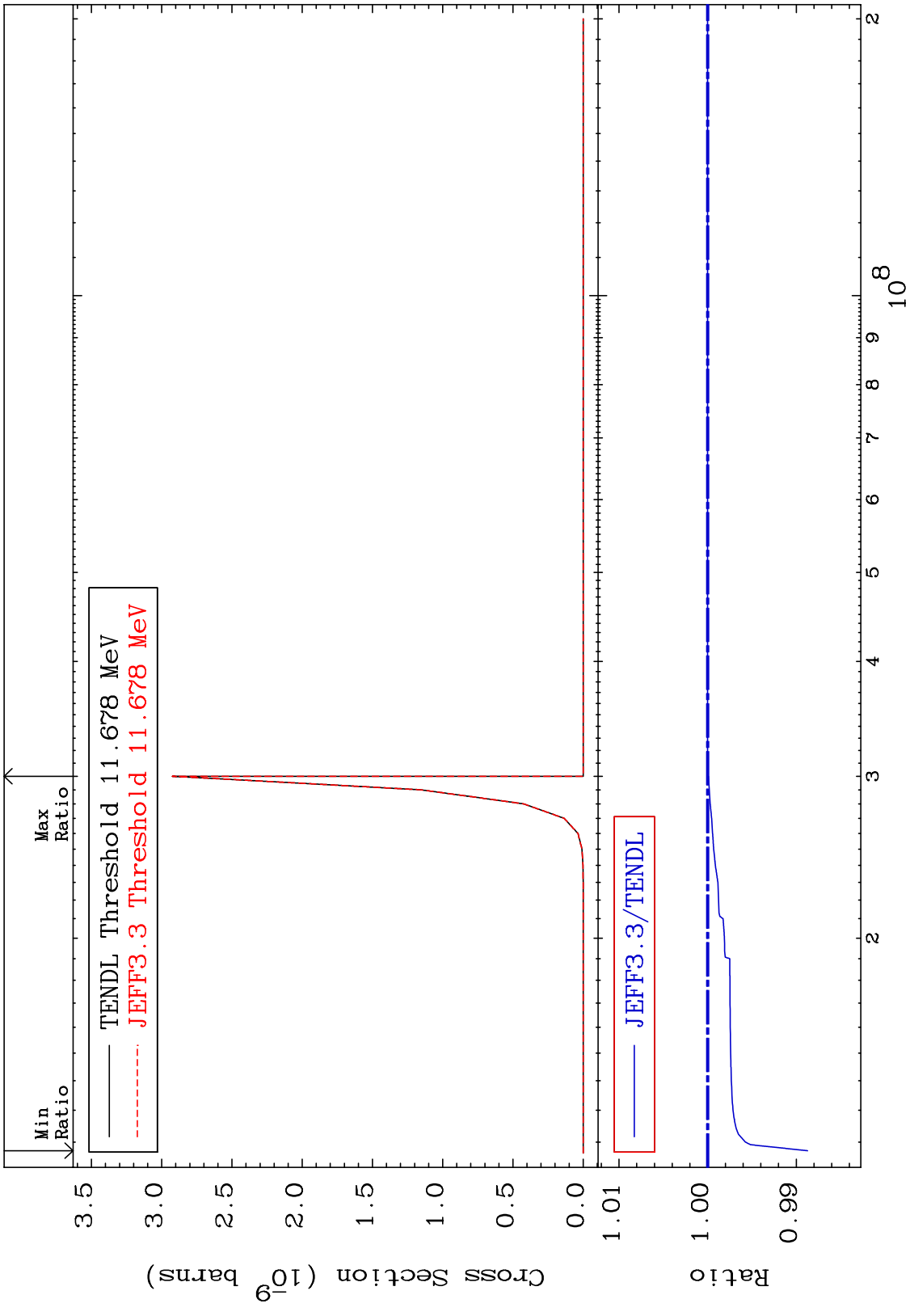
MAT 7040 $(n, p) \alpha$ $^{70}\text{Yb-173}$
 Cross Section -44.20 To 9999. %

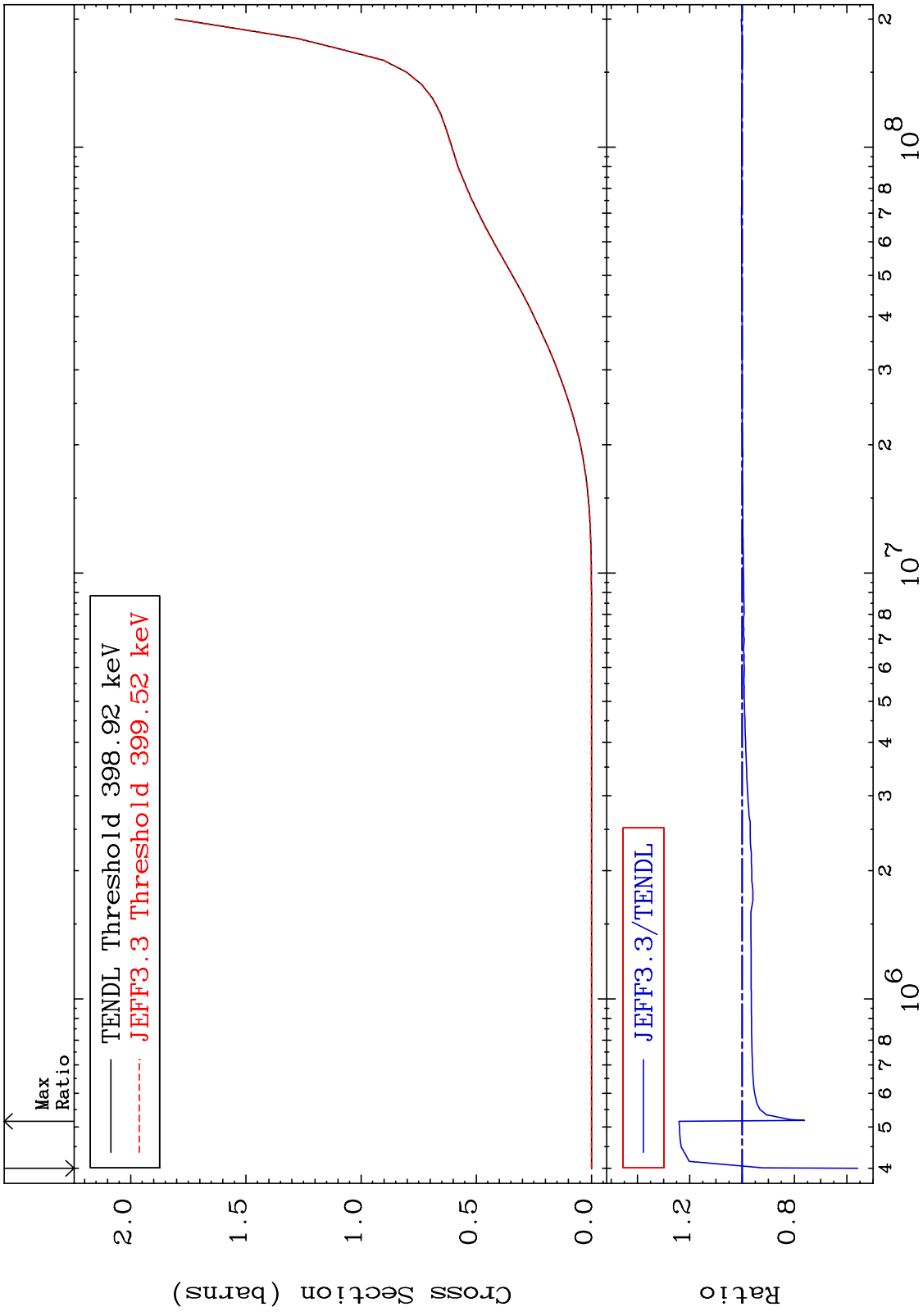


MAT 7040 (n,p) d 70-Yb-173
 Cross Section -0.844 To 0.000 %

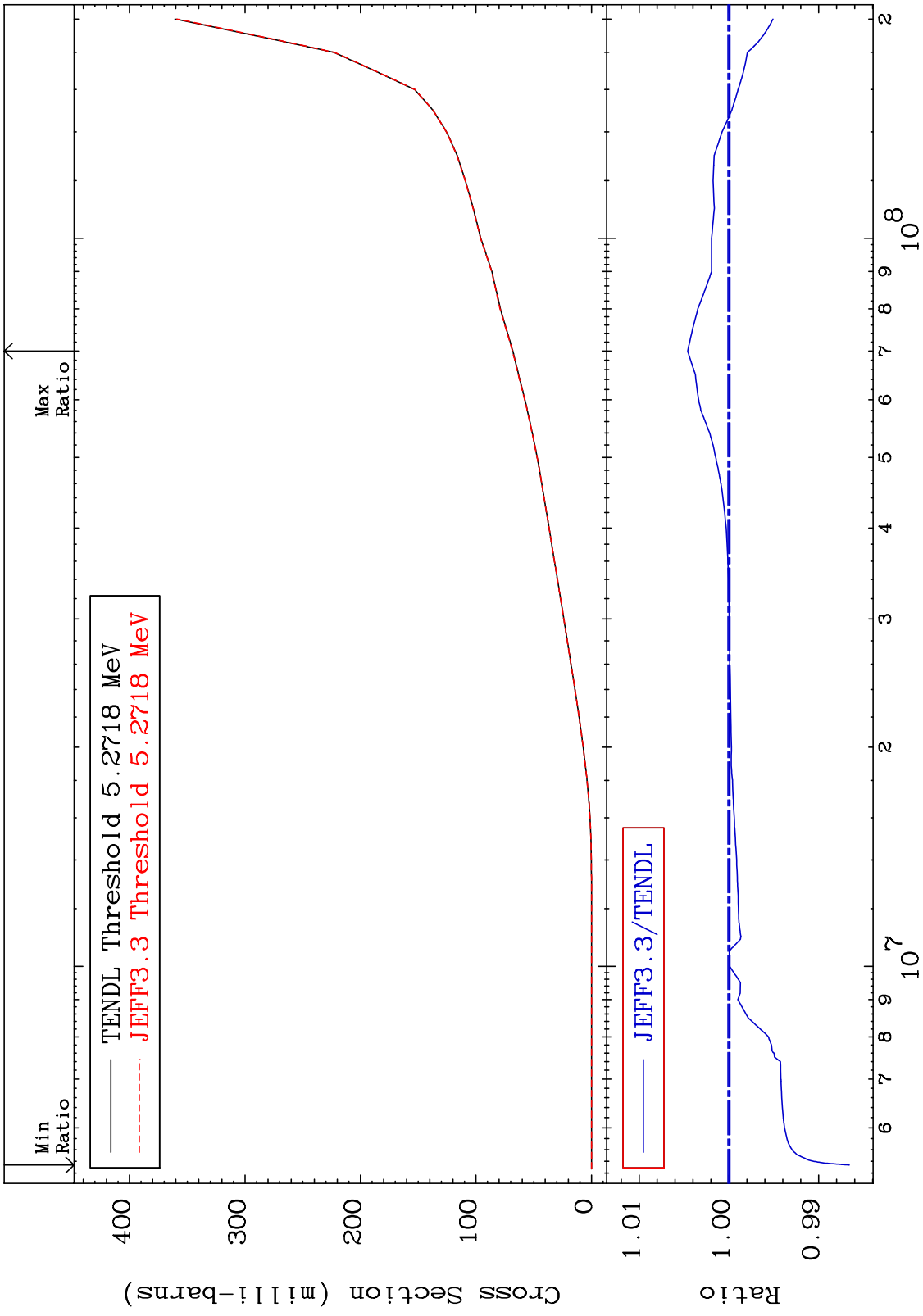


MAT 7040 (n,p) t 70-Yb-173
 Cross Section -1.127 To 0.000 %

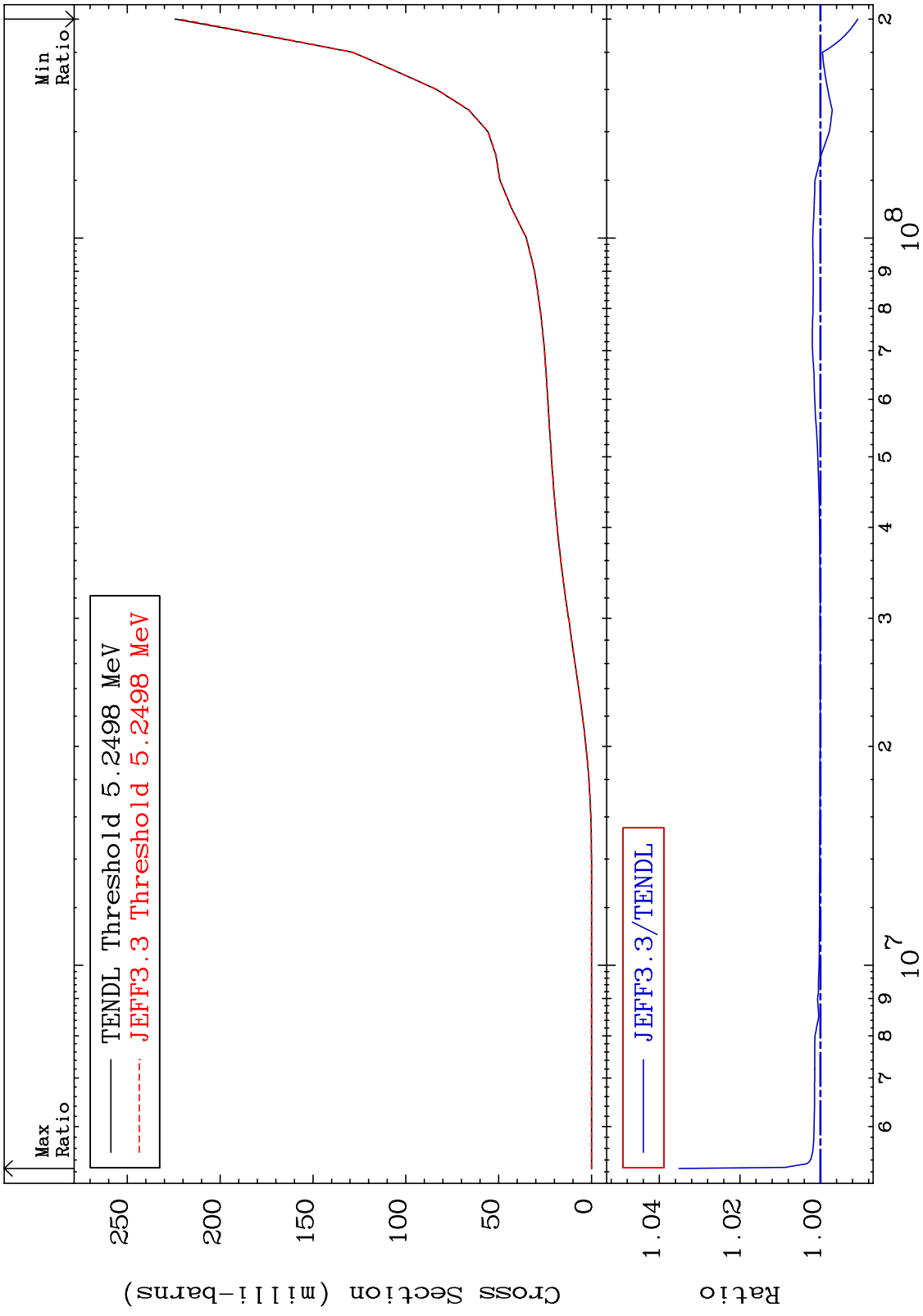




MAT 7040 Deuterium Production Cross Section 70-Yb-173
 -1.339 To 0.460 %



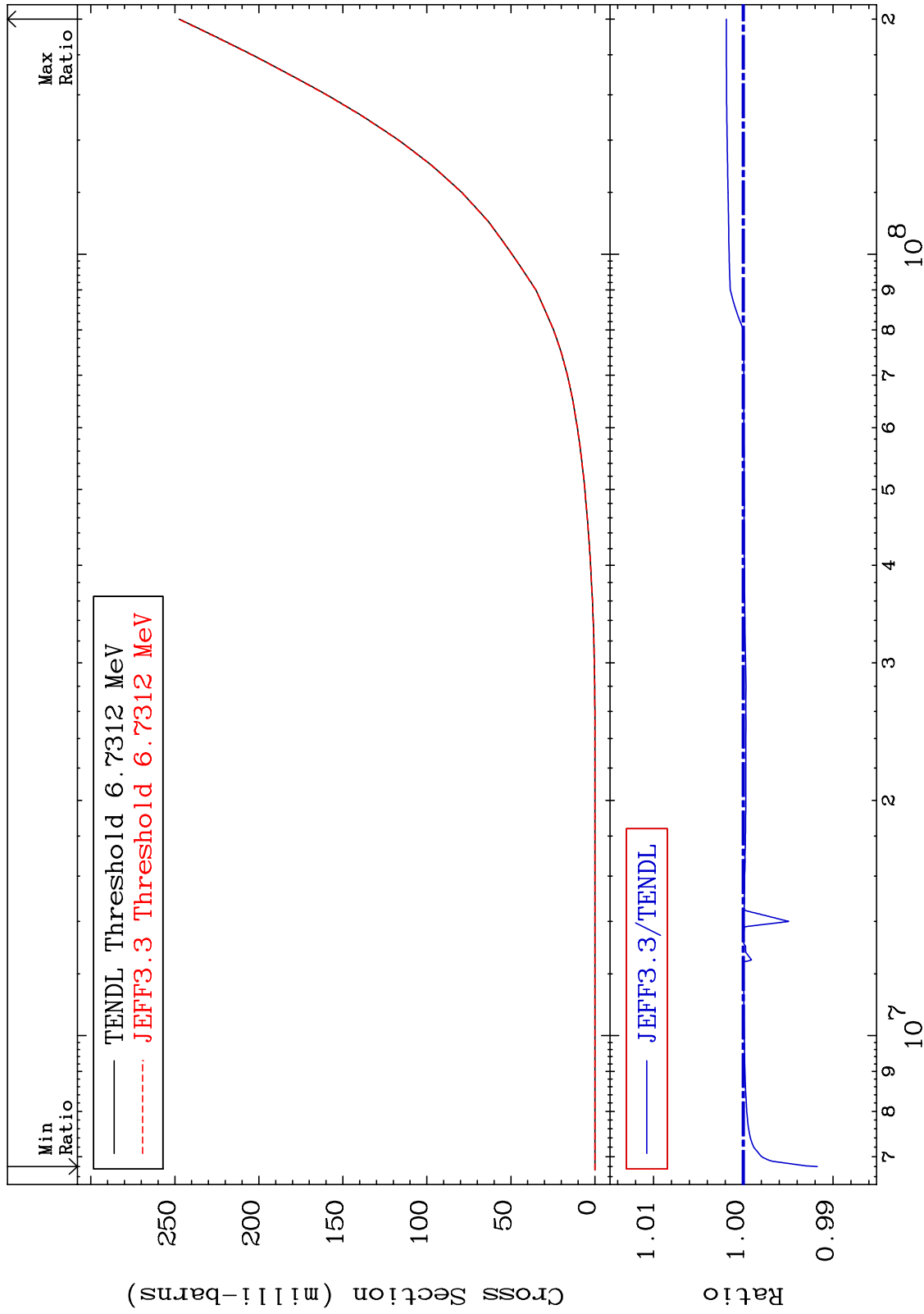
MAT 7040 Tritium Production Cross Section 70-Yb-173 -0.931 To 3.512 %



MAT 7040

He-3 Production
Cross Section

70-Yb-173
-0.826 To 0.189 %

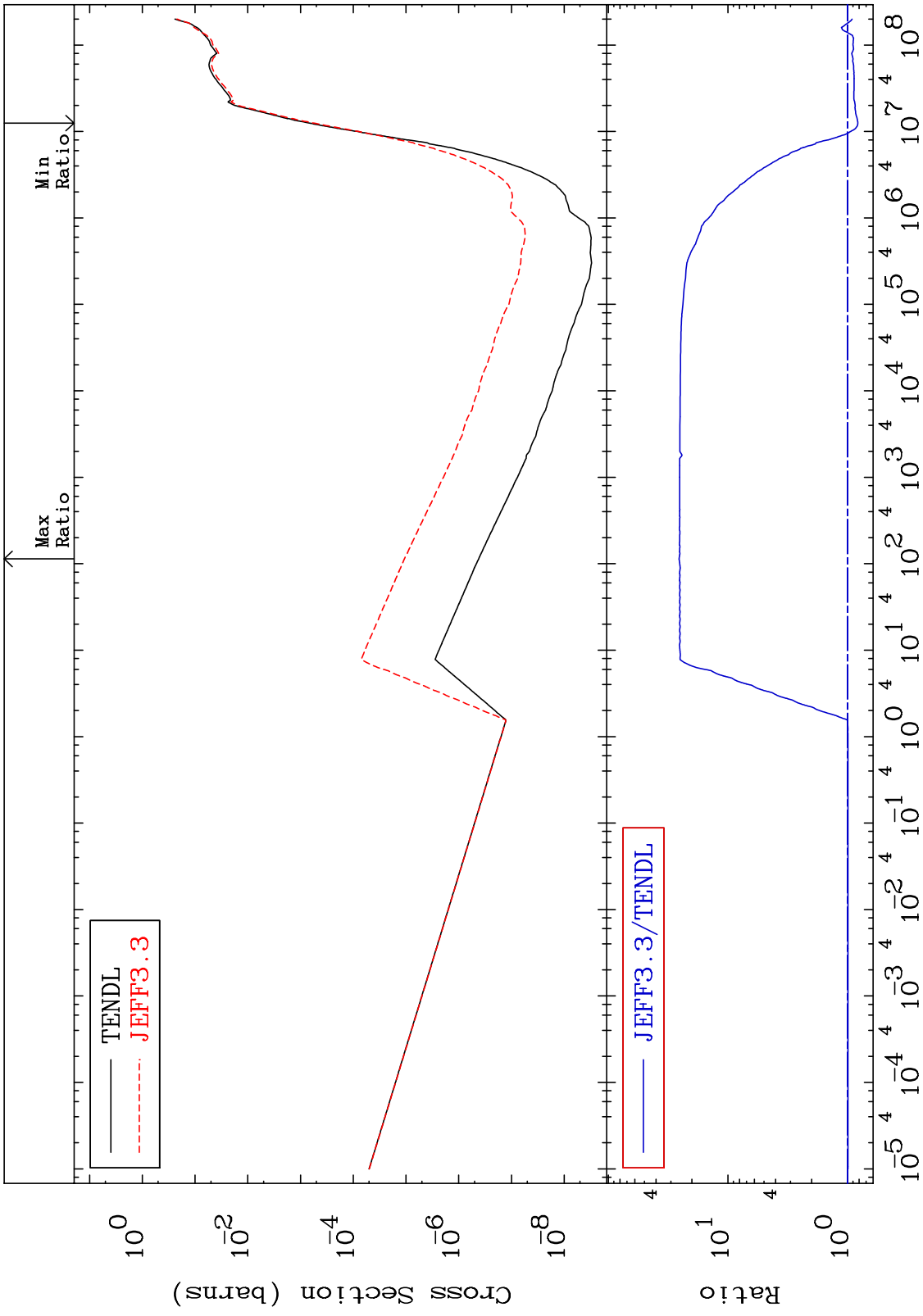


65

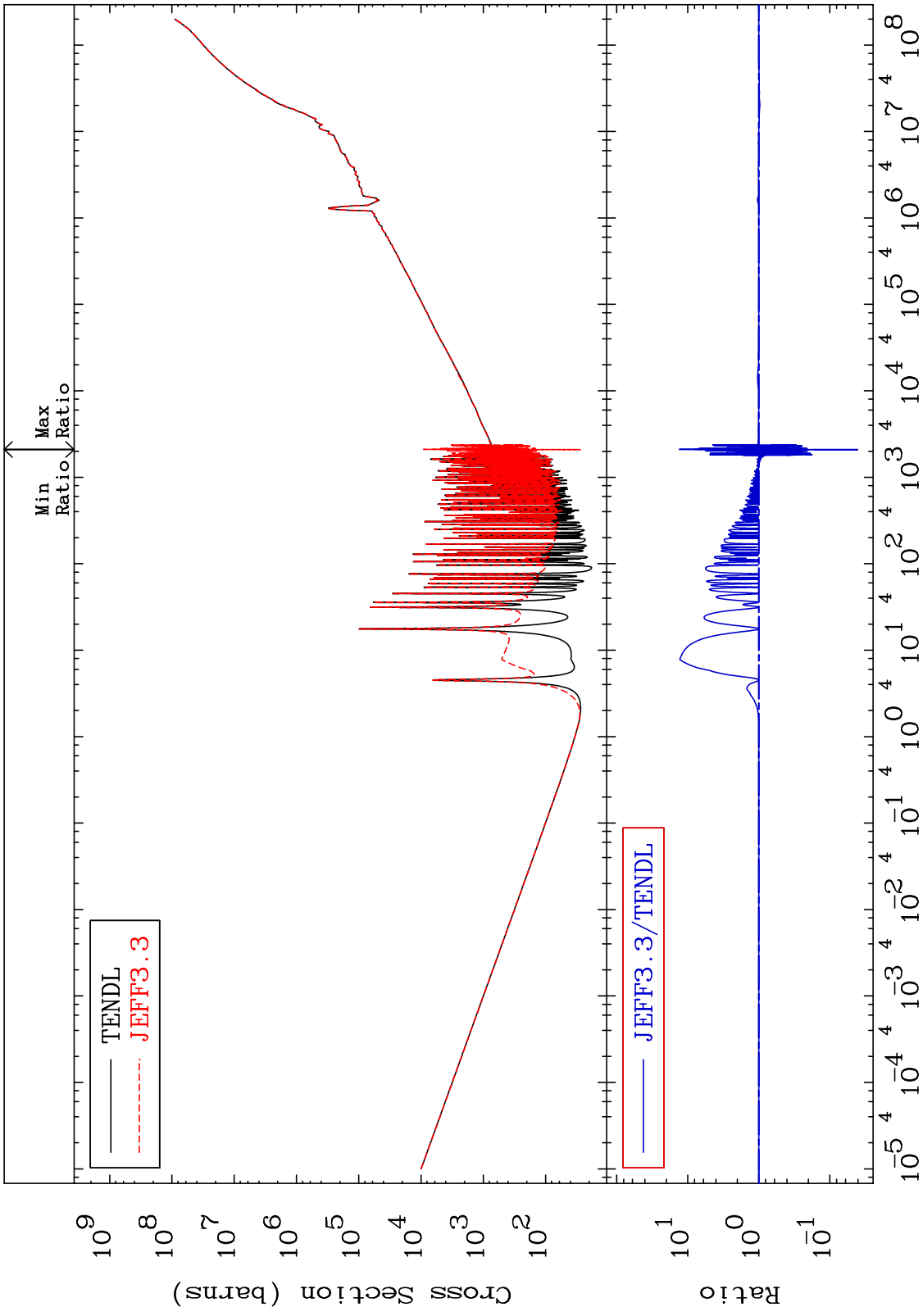
Incident Energy (eV)

70-Yb-173

MAT 7040 He-4 Production Cross Section 70-Yb-173
 -17.92 To 2463. %



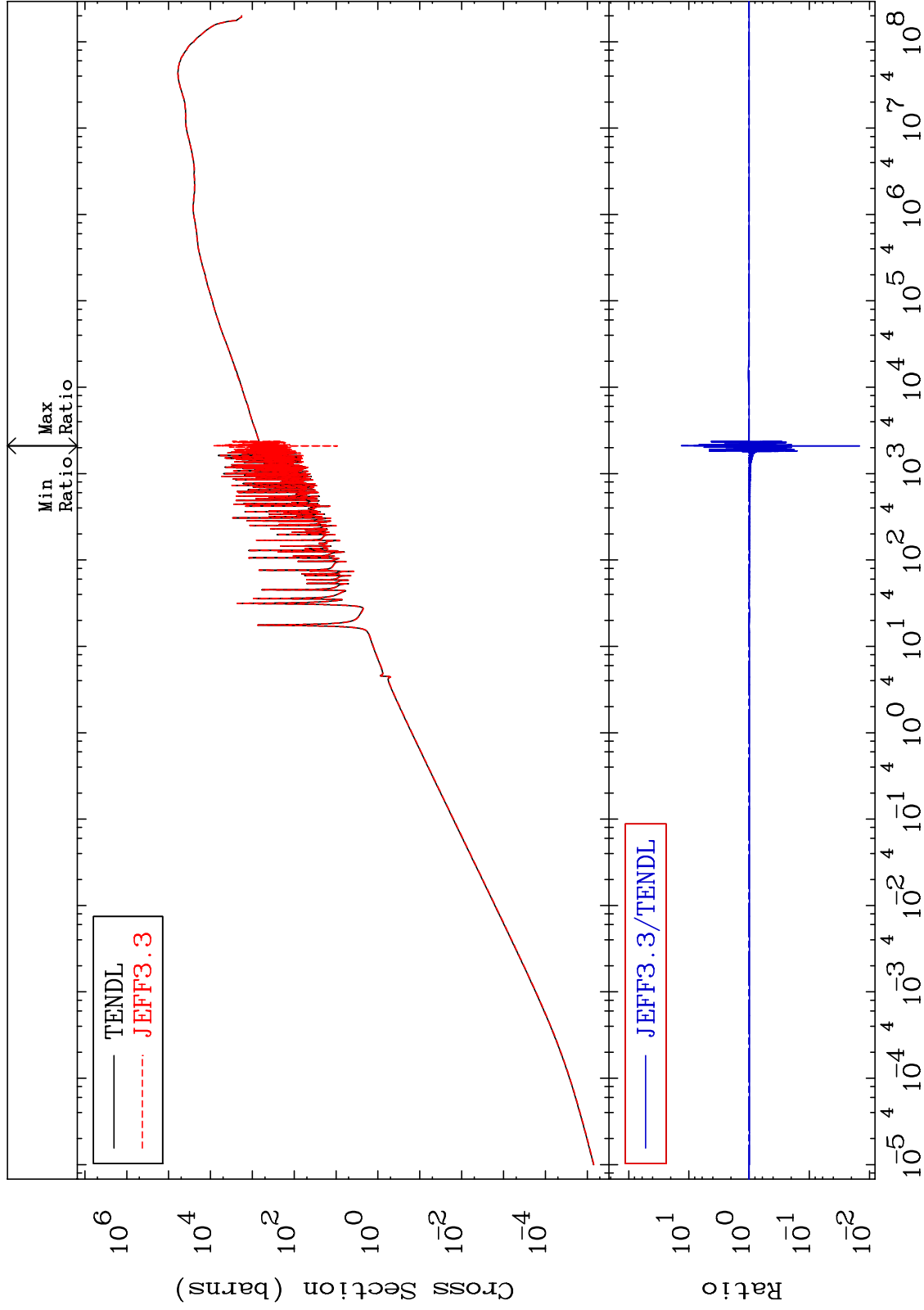
MAT 7040 Kerma total (eV-barns) 70-Yb-173
 Cross Section -95.98 To 1225. %



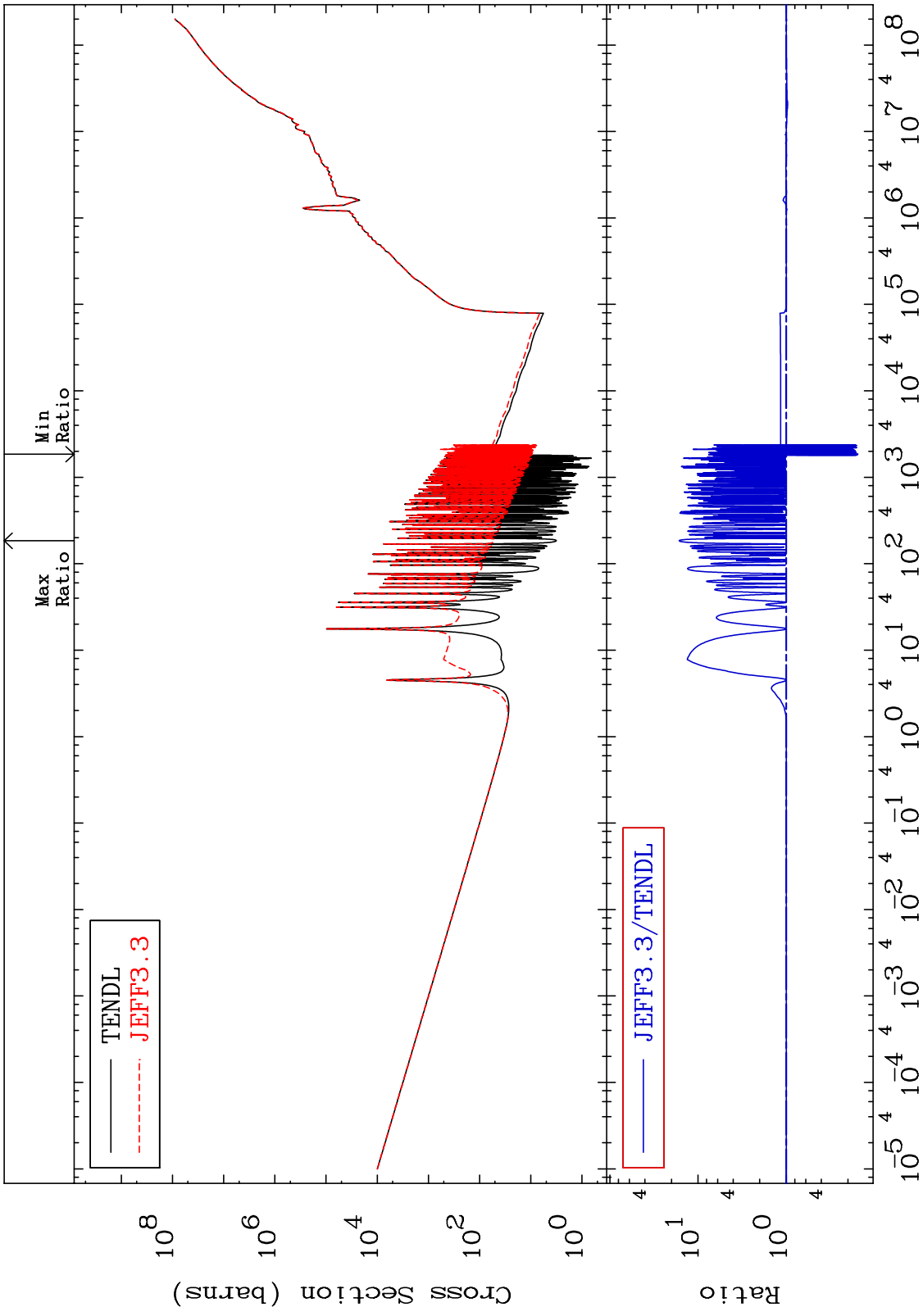
MAT 7040

Kerma elastic
Cross Section

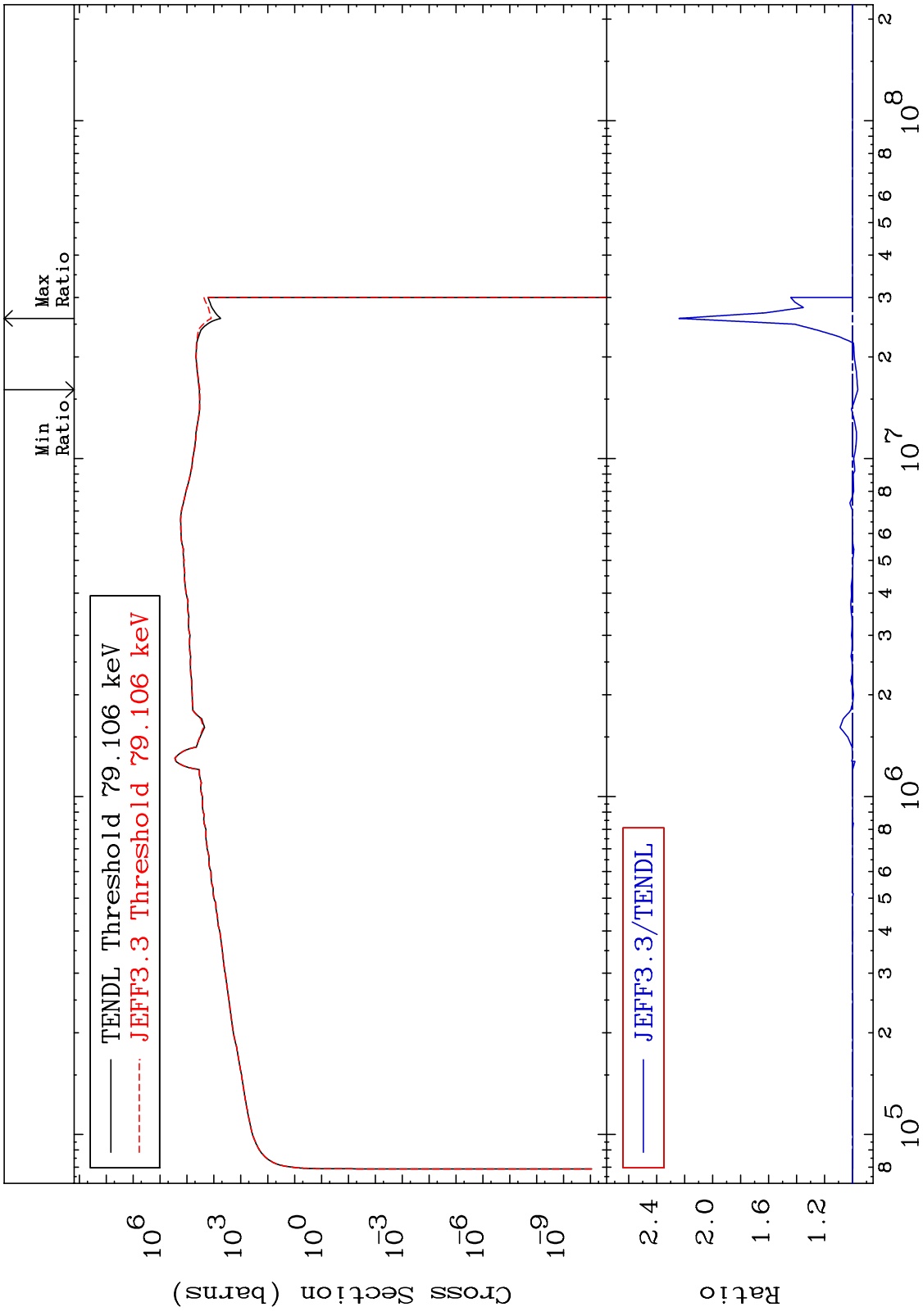
70-Yb-173
-98.55 To 1239. %



MAT 7040 Kerma non-elastic (all but mt2) 70-Yb-173
 -84.57 To 1541. %
 Cross Section



MAT 7040 Kerma inelastic (mt51-91) 70-Yb-173
 Cross Section -3.770 To 124.0 %

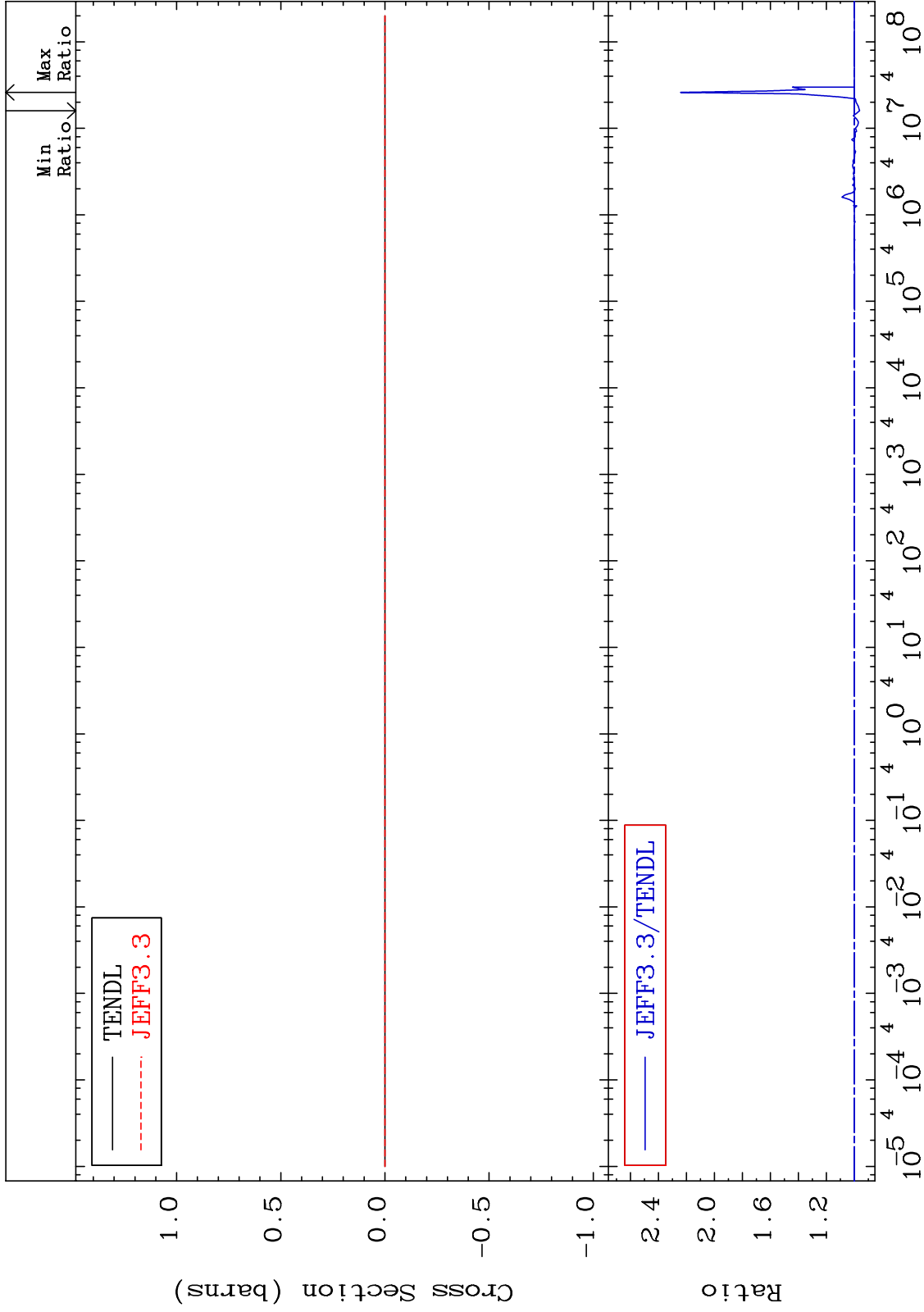


70 Incident Energy (eV) 70-Yb-173

MAT 7040

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

70-Yb-173
-3.770 To 124.0 %

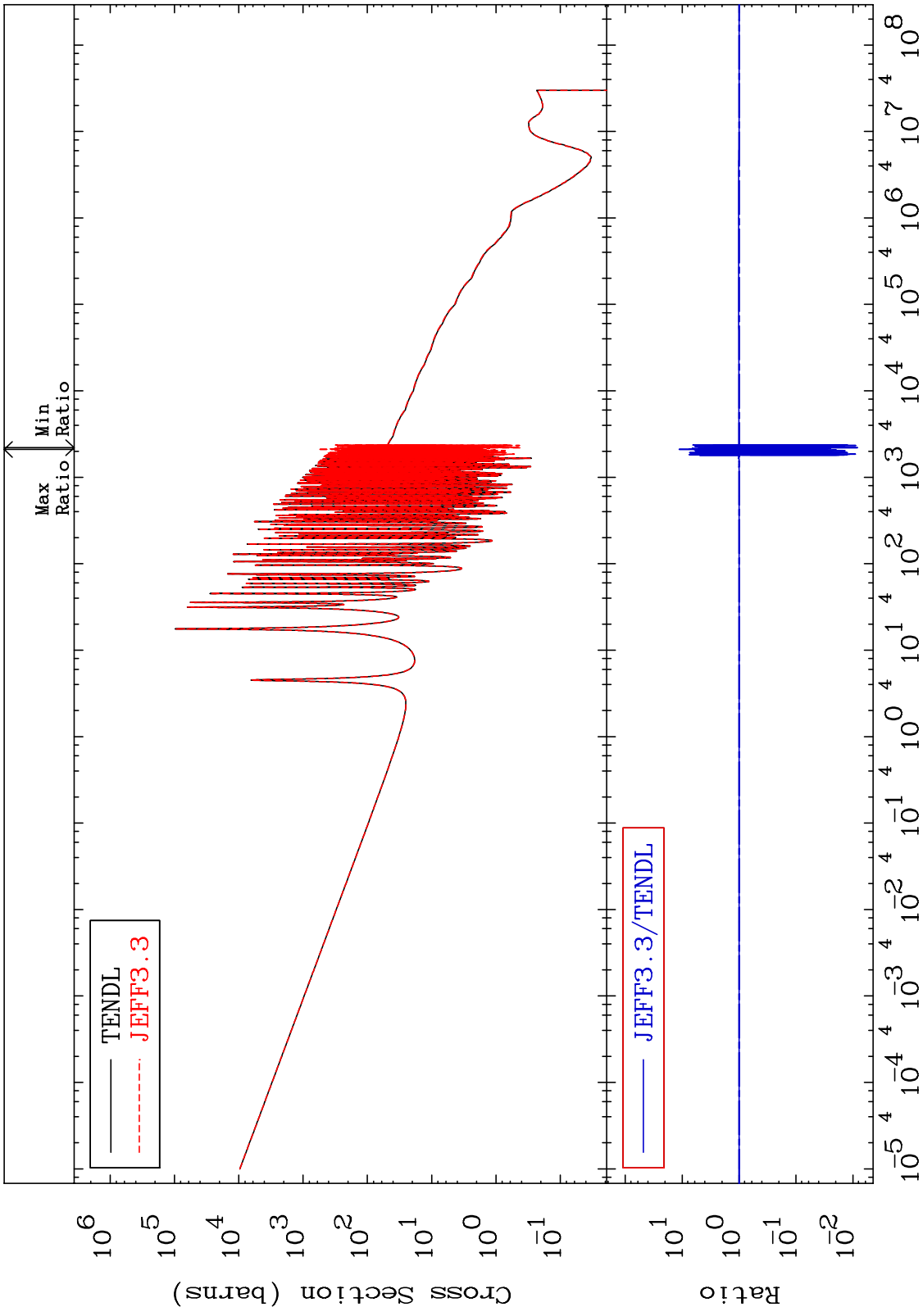


71

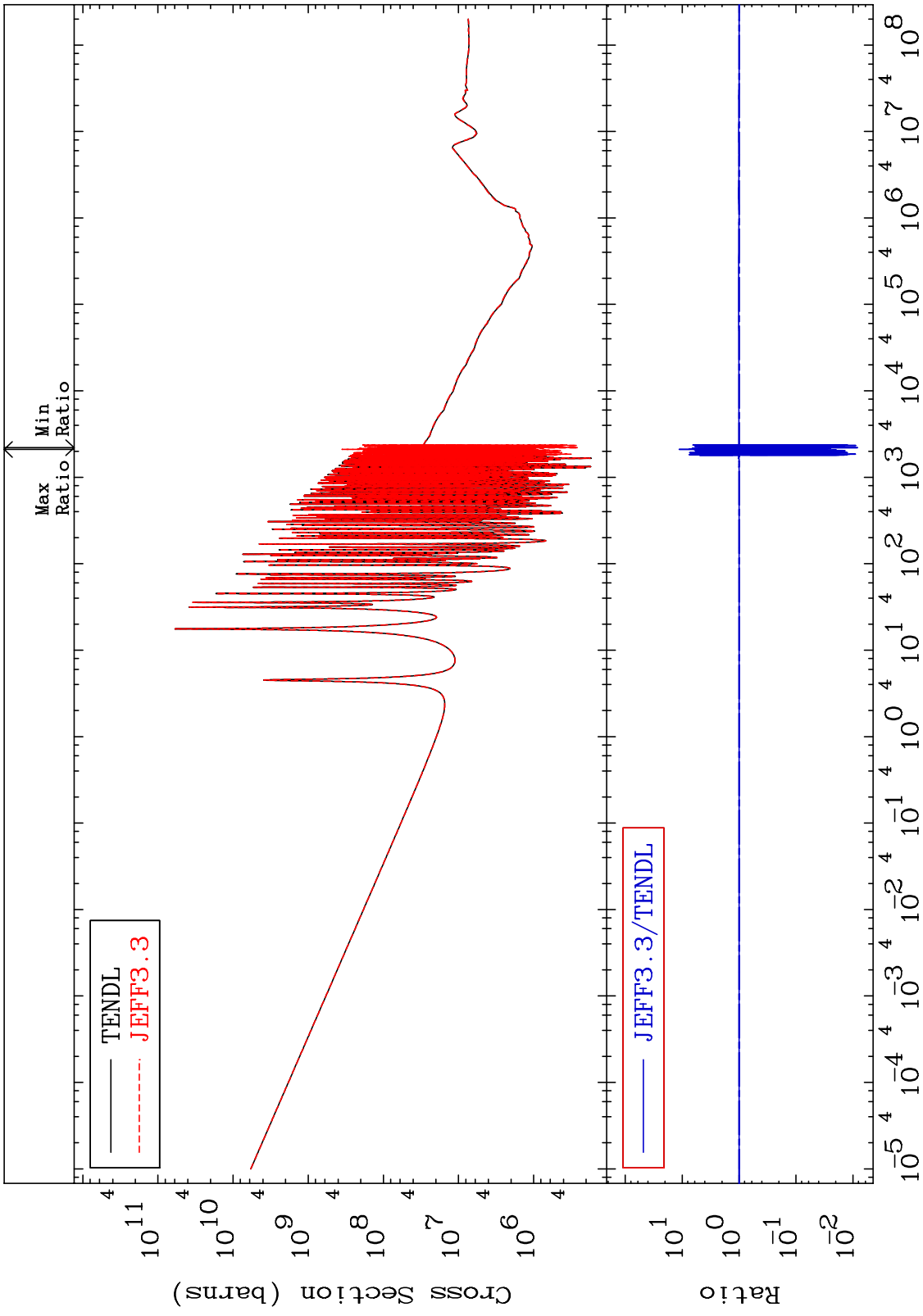
Incident Energy (eV)

70-Yb-173

MAT 7040 Kerma capture (mt102) 70-Yb-173
 Cross Section -99.18 To 1036. %

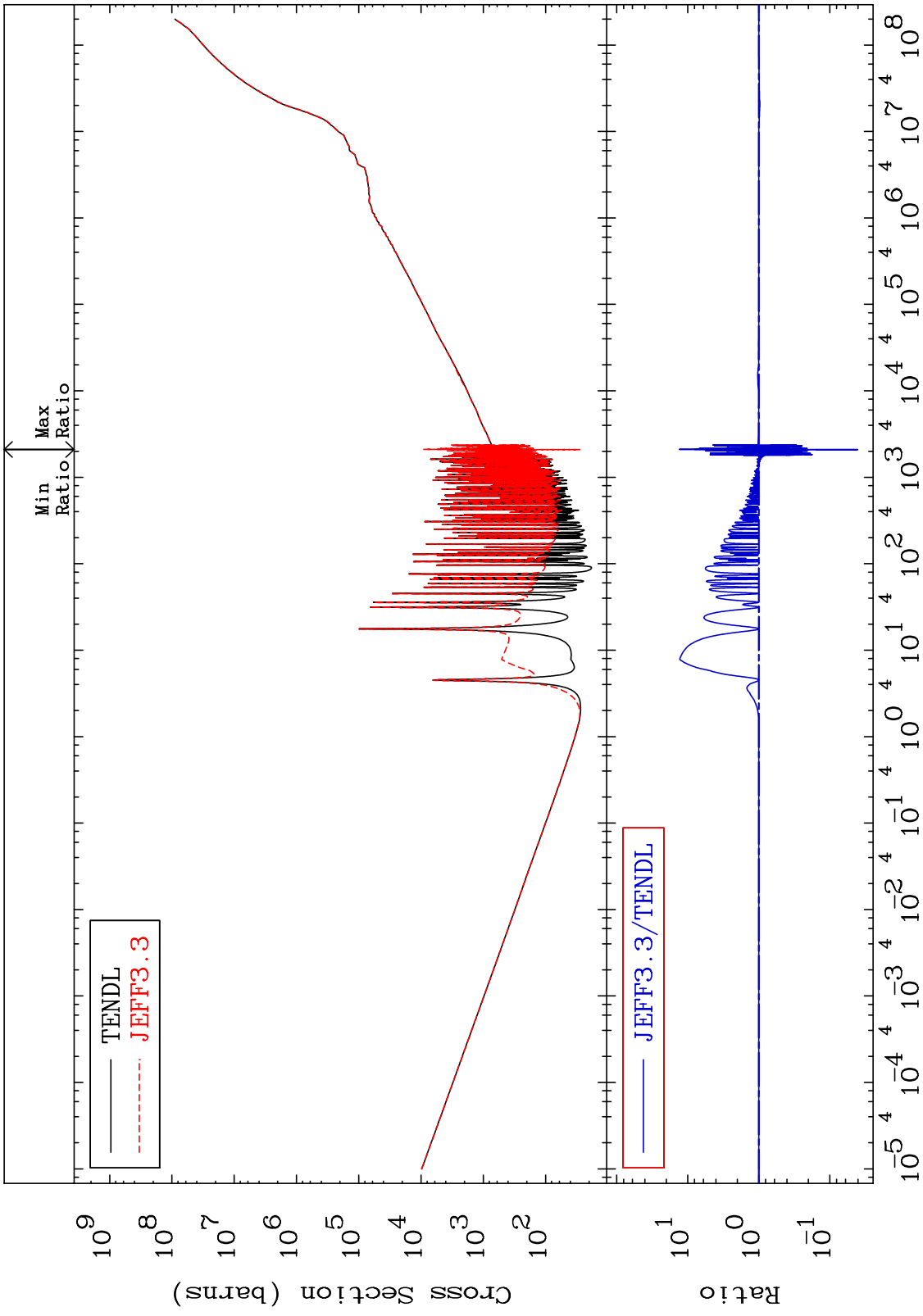


MAT 7040 Total photon (eV-barns) Cross Section 70-Yb-173 -99.18 To 1036. %

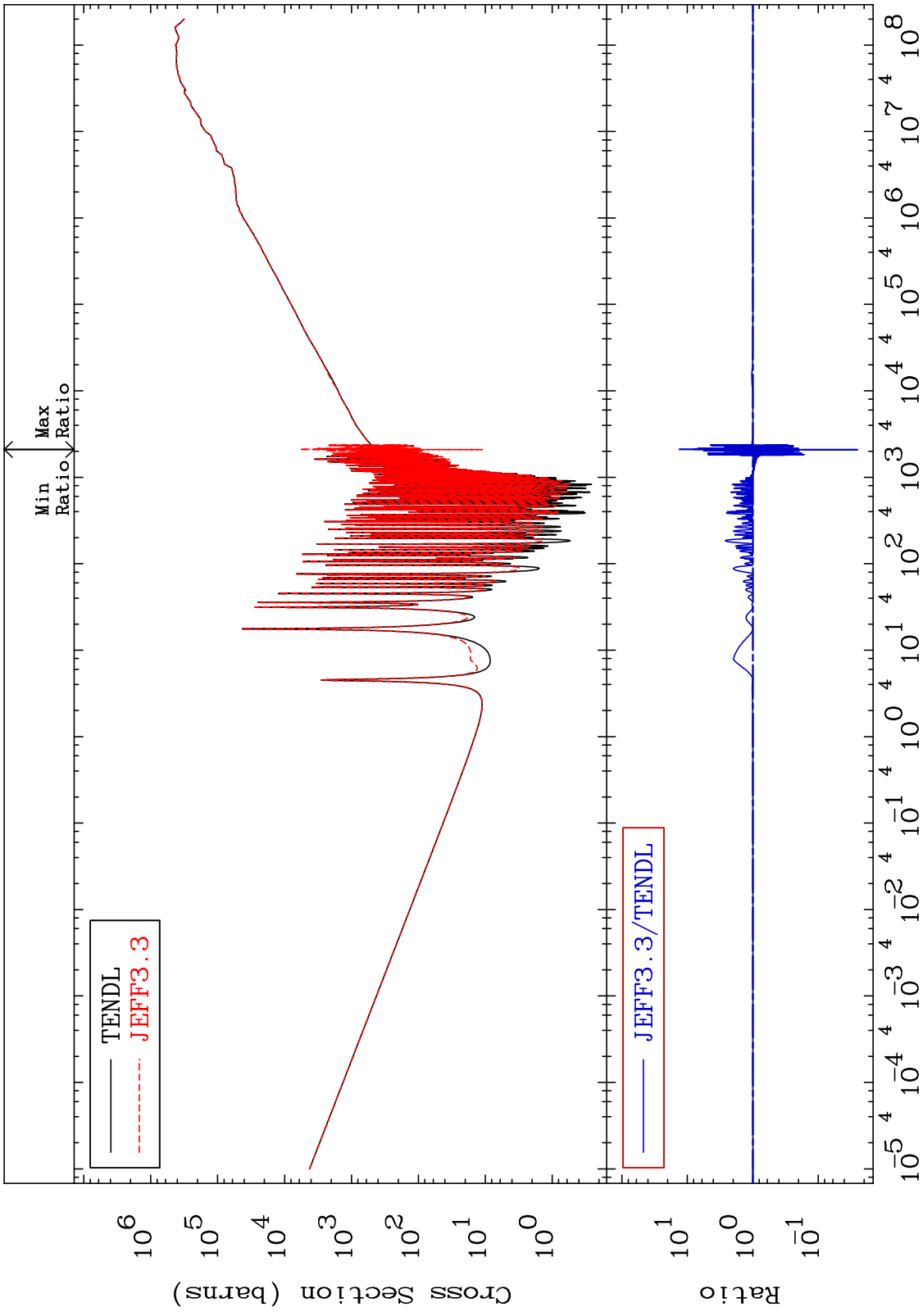


73 70-Yb-173

MAT 7040 Total kinematic kerma (high limit) 70-Yb-173
 Cross Section -95.97 To 1225. %

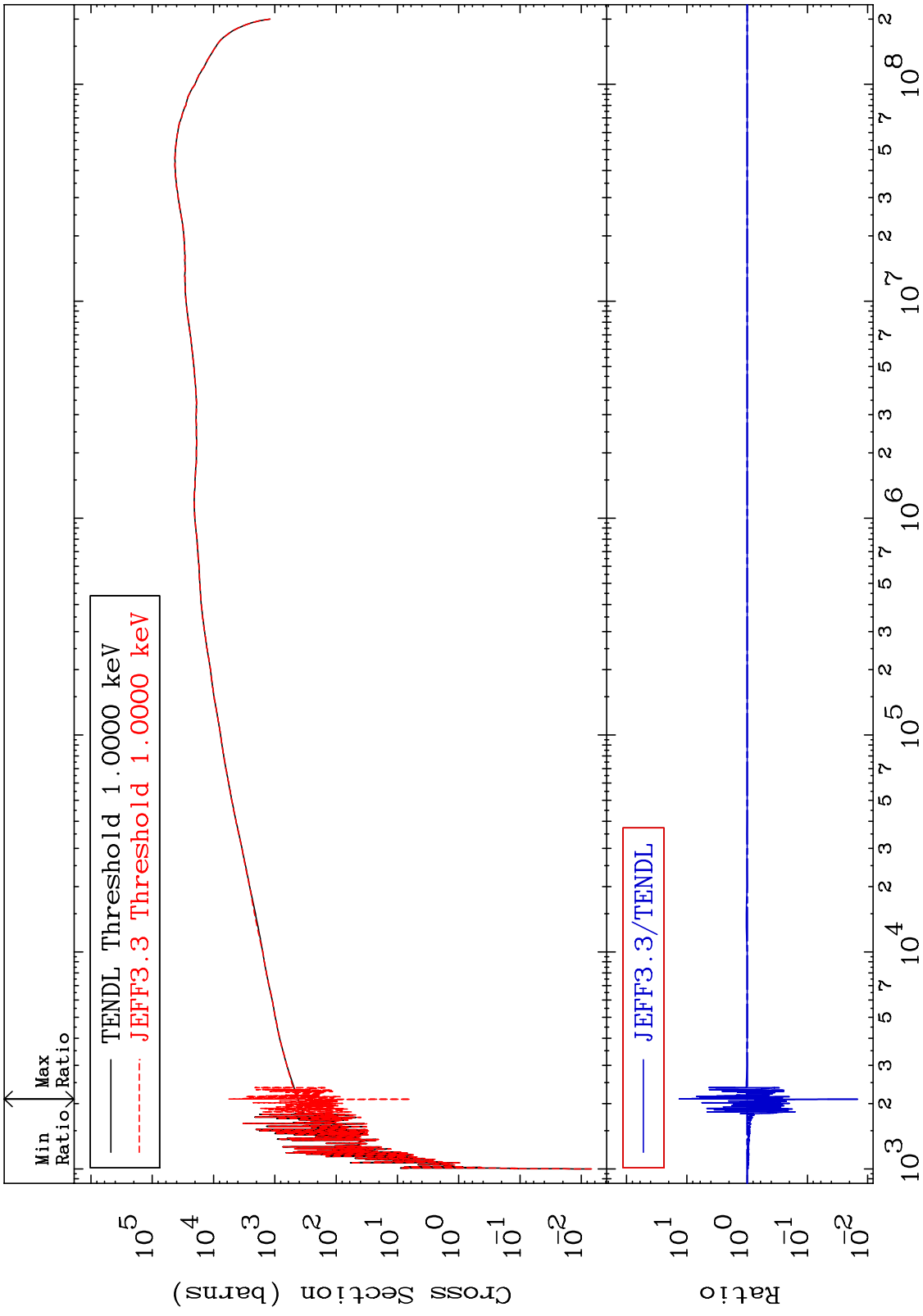


MAT 7040 Dpa total (eV-barns) 70-Yb-173
Cross Section -97.51 To 1237. %



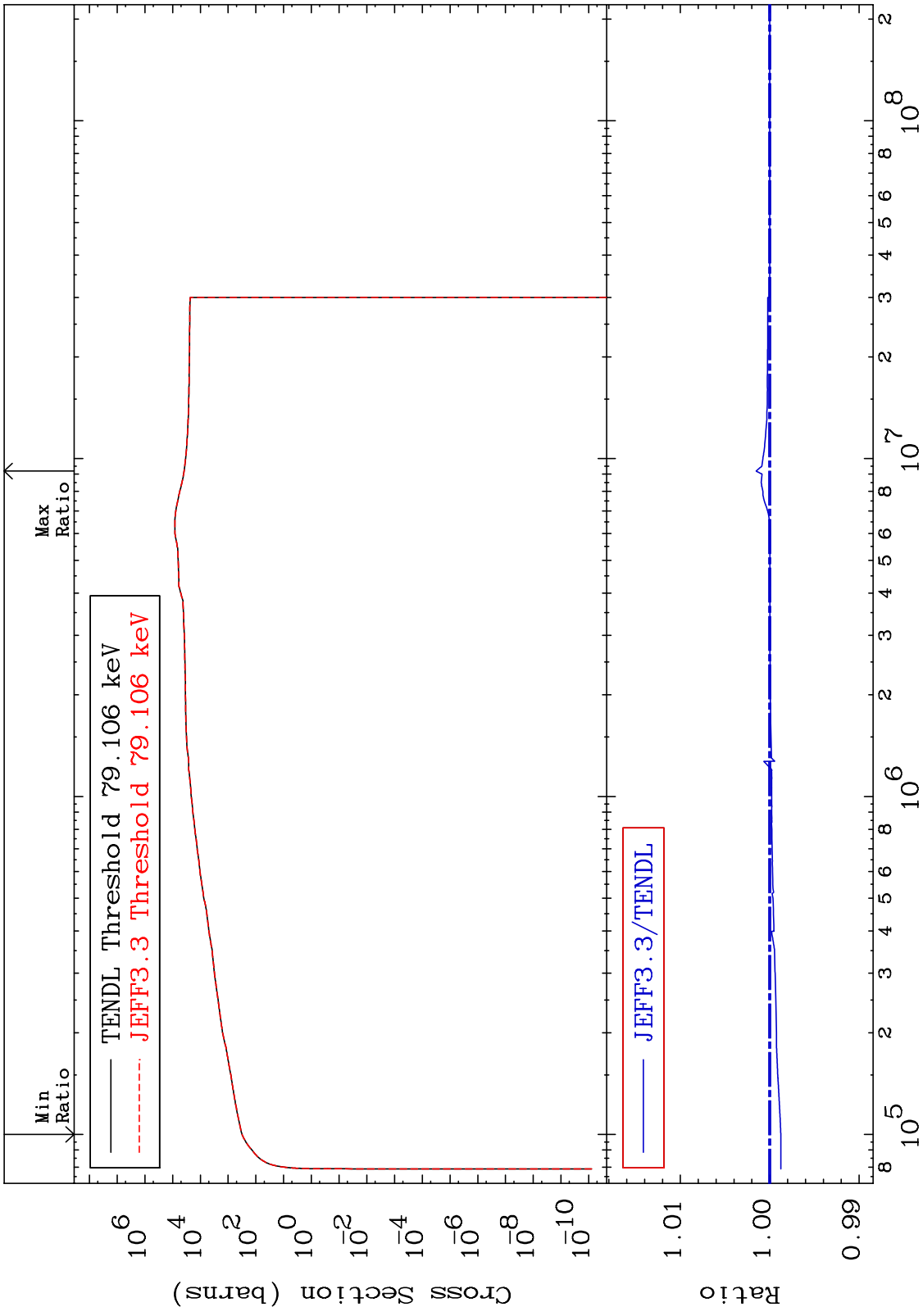
75 Incident Energy (eV) 70-Yb-173

MAT 7040 70-Yb-173
Dpa elastic (mt2) -98.54 To 1248. %
Cross Section



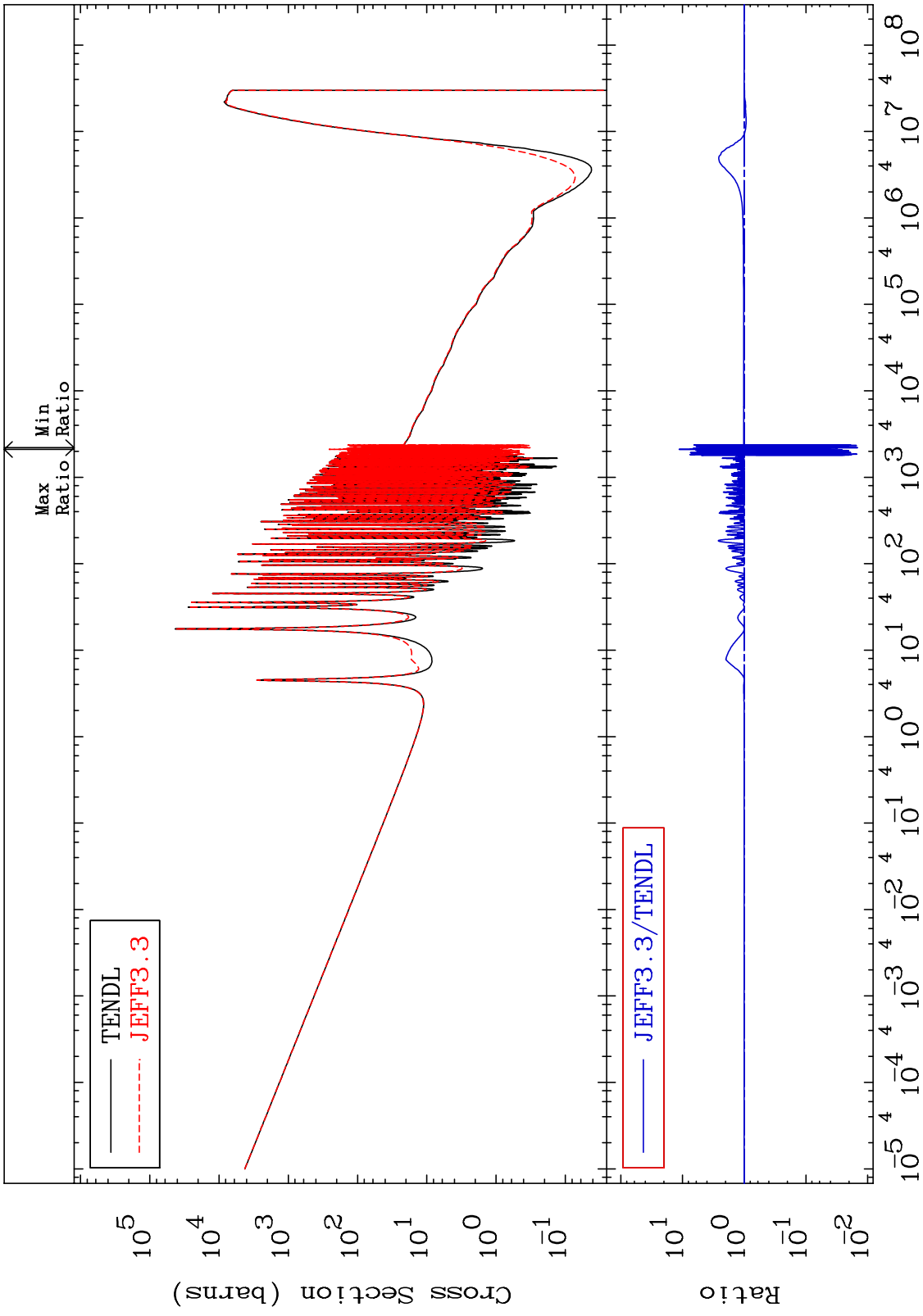
76 70-Yb-173

MAT 7040 Dpa inelastic (mt51-91) 70-Yb-173
 Cross Section -0.124 To 0.153 %

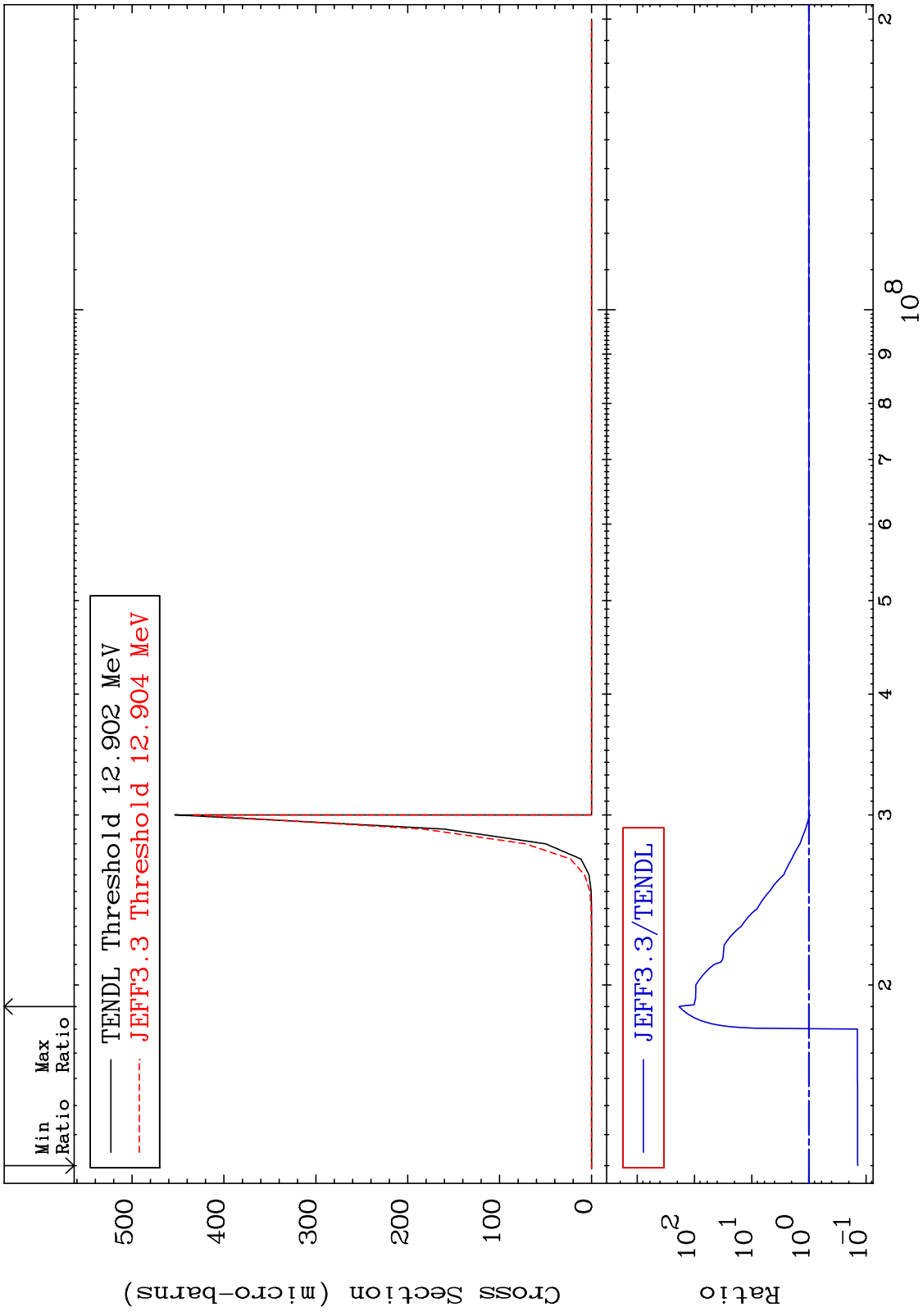


77 Incident Energy (eV) 70-Yb-173

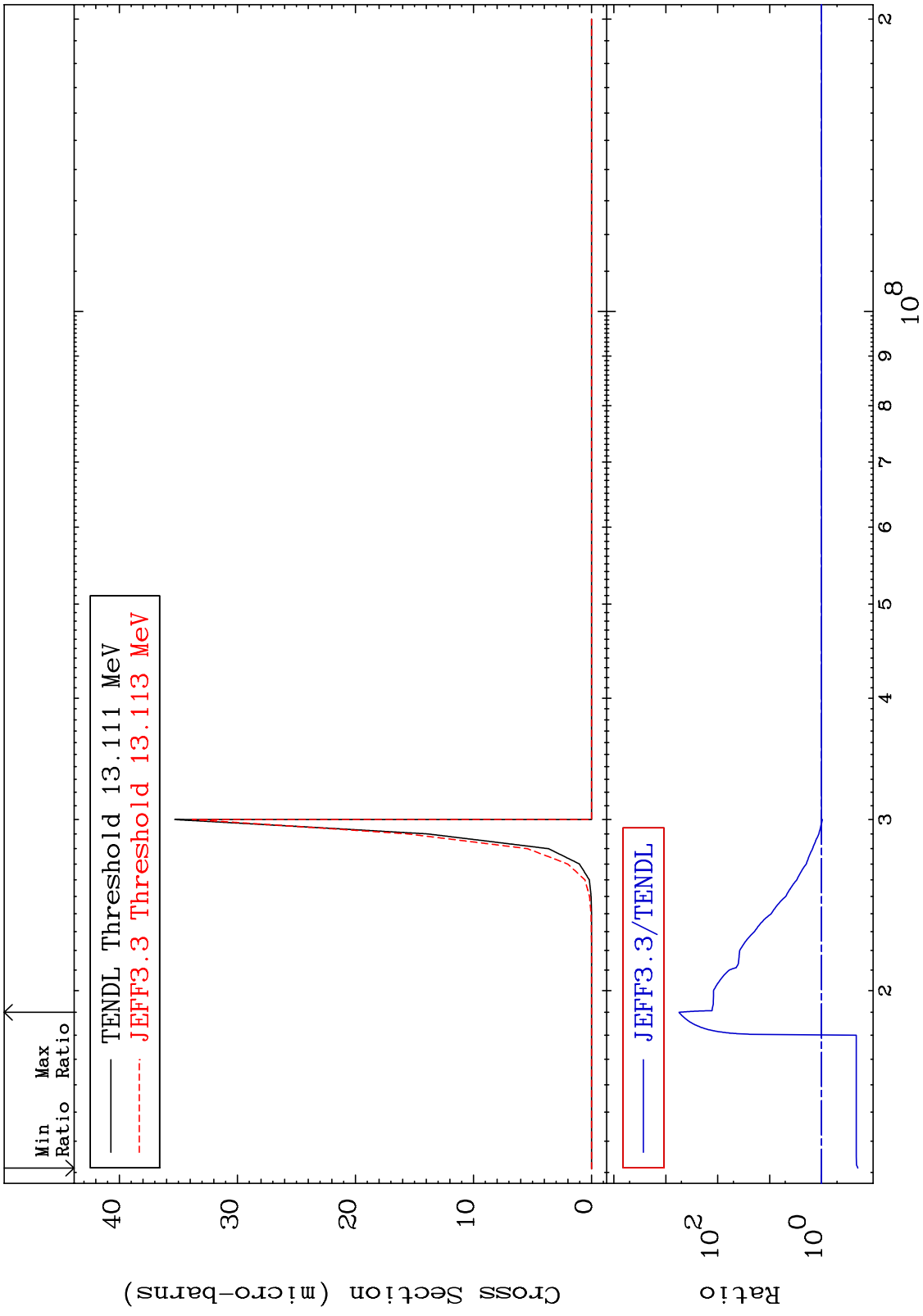
MAT 7040 Dpa disappearance (mt102 -120) 70-Yb-173
 Cross Section -98.56 To 1036. %



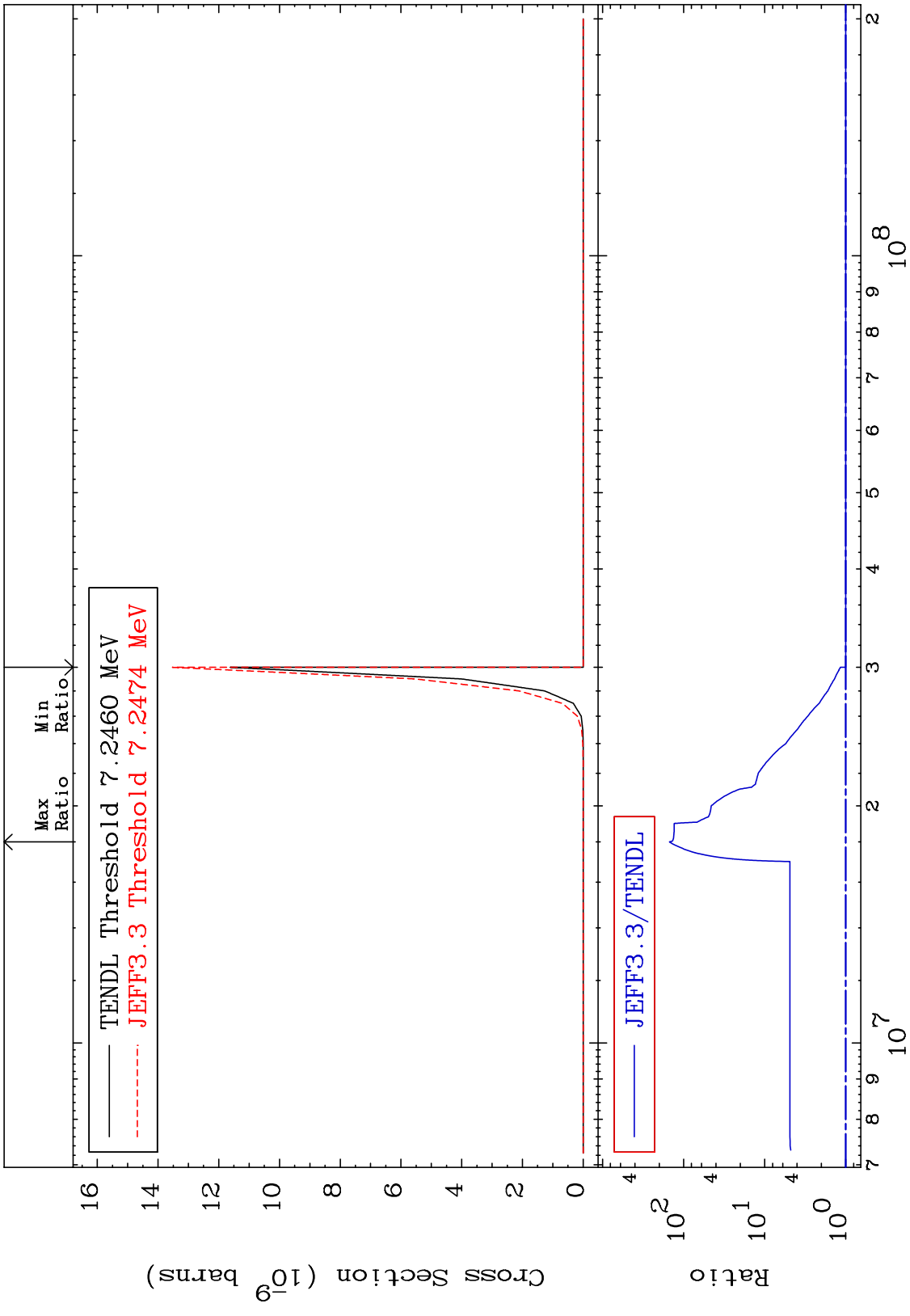
MAT 7040 (n,3n) α :68-Er-167g 70-Yb-173
 Radionuclide Production Cross Section -86.07 To 9999. %



MAT 7040 (n,3n) α : 68-Er-167m3 70-Yb-173
 Radionuclide Production Cross Section -80.05 To 9999. %



MAT 7040 (n,n') p α:67-Ho-168g 70-Yb-173
 Radionuclide Production Cross Section 0.000 To 9999. %



MAT 7040 (n, n') p α :67-Ho-168m1 70-Yb-173
 Radionuclide Production Cross Section 0.000 To 9999. %

