

Program Complot
(Version 2021-1)

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

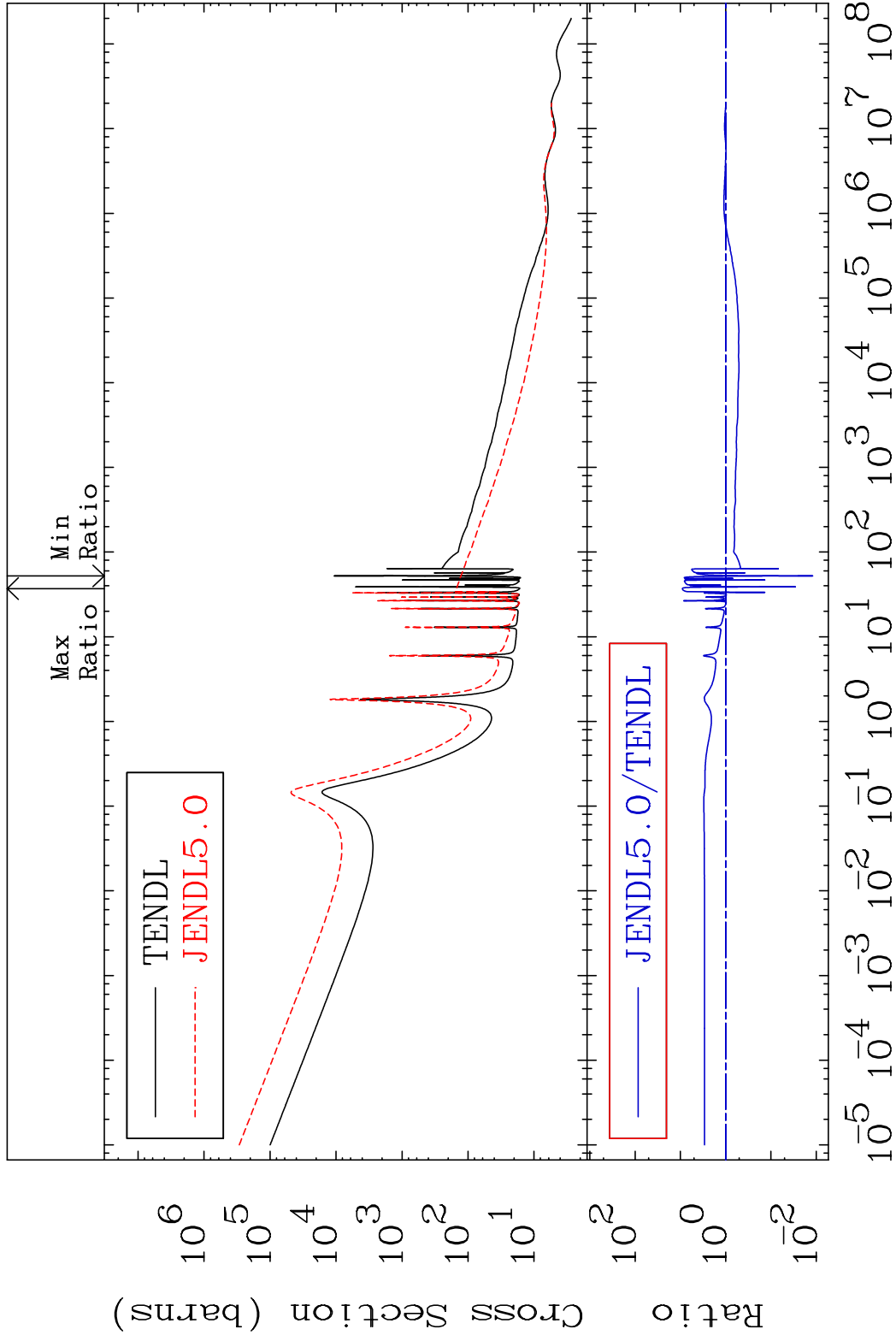
Press Mouse Button to Start

MAT 7331

Total

73-Ta-182

Cross Section -98.80 To 804.1 %



1

Incident Energy (eV)

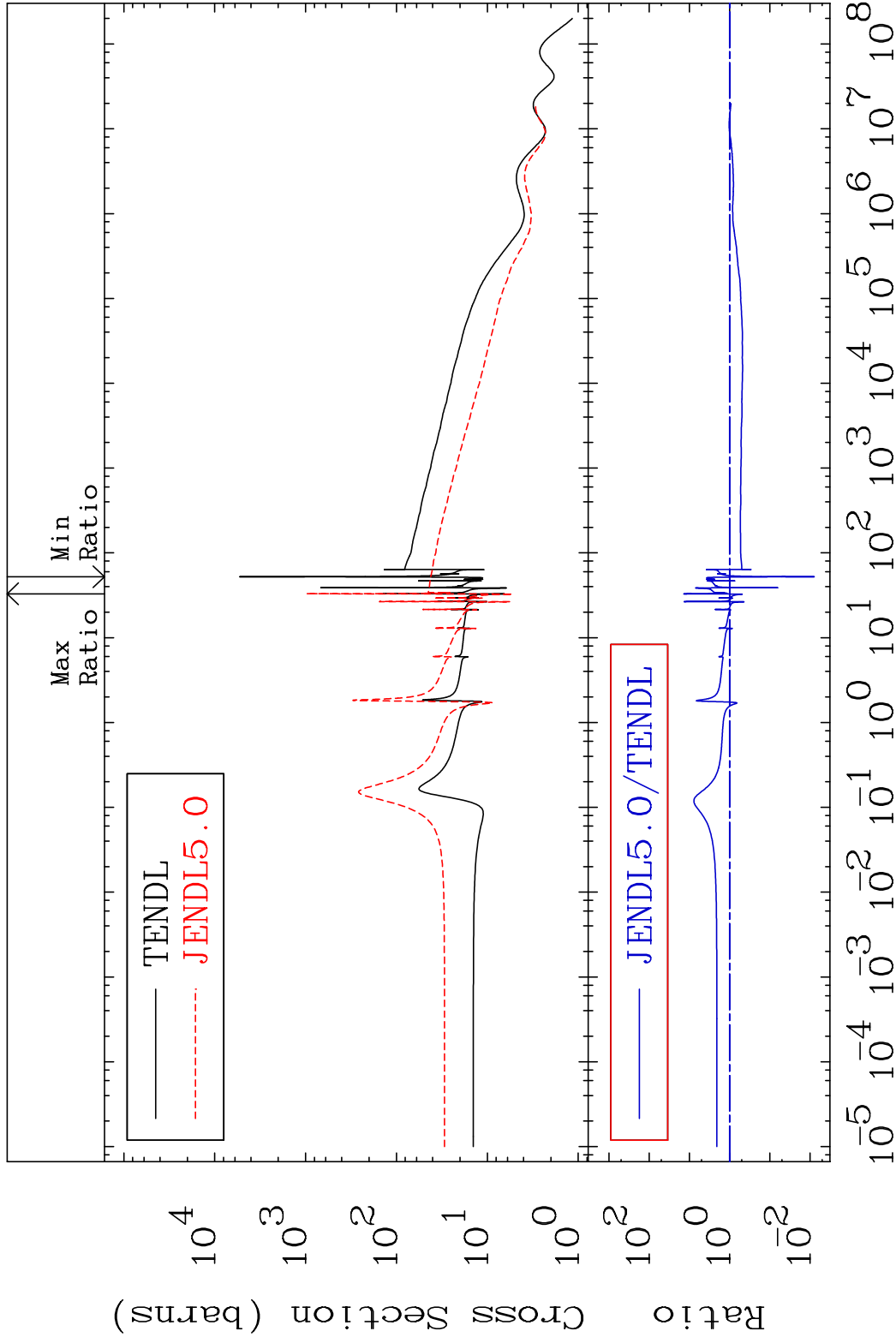
73-Ta-182

MAT 7331

Elastic

73-Ta-182

Cross Section -99.21 To 1289. %

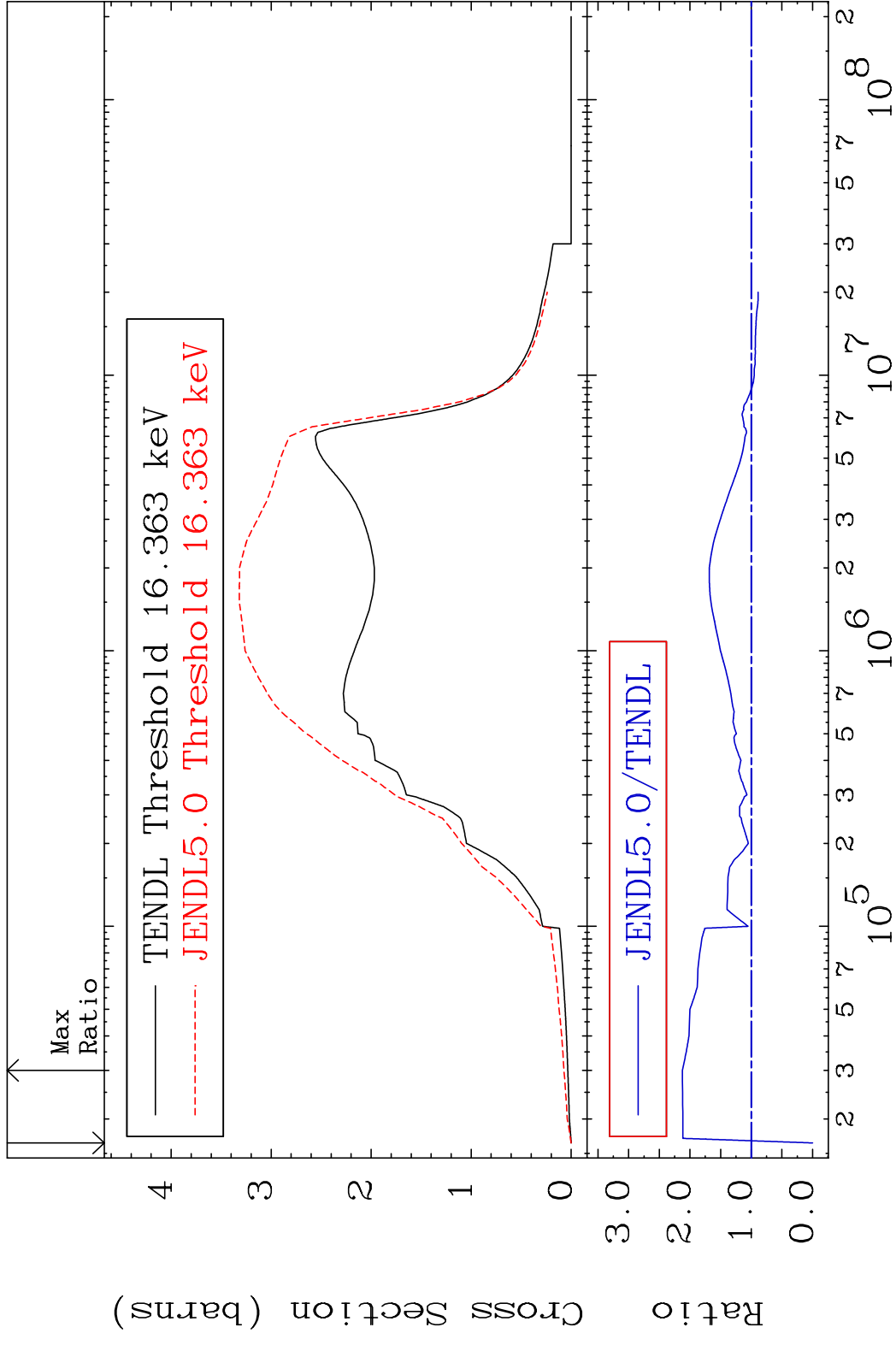


2

Incident Energy (eV)

73-Ta-182

MAT 7331 Inelastic 73-Ta-182
 Cross Section -100.0 To 112.4 %

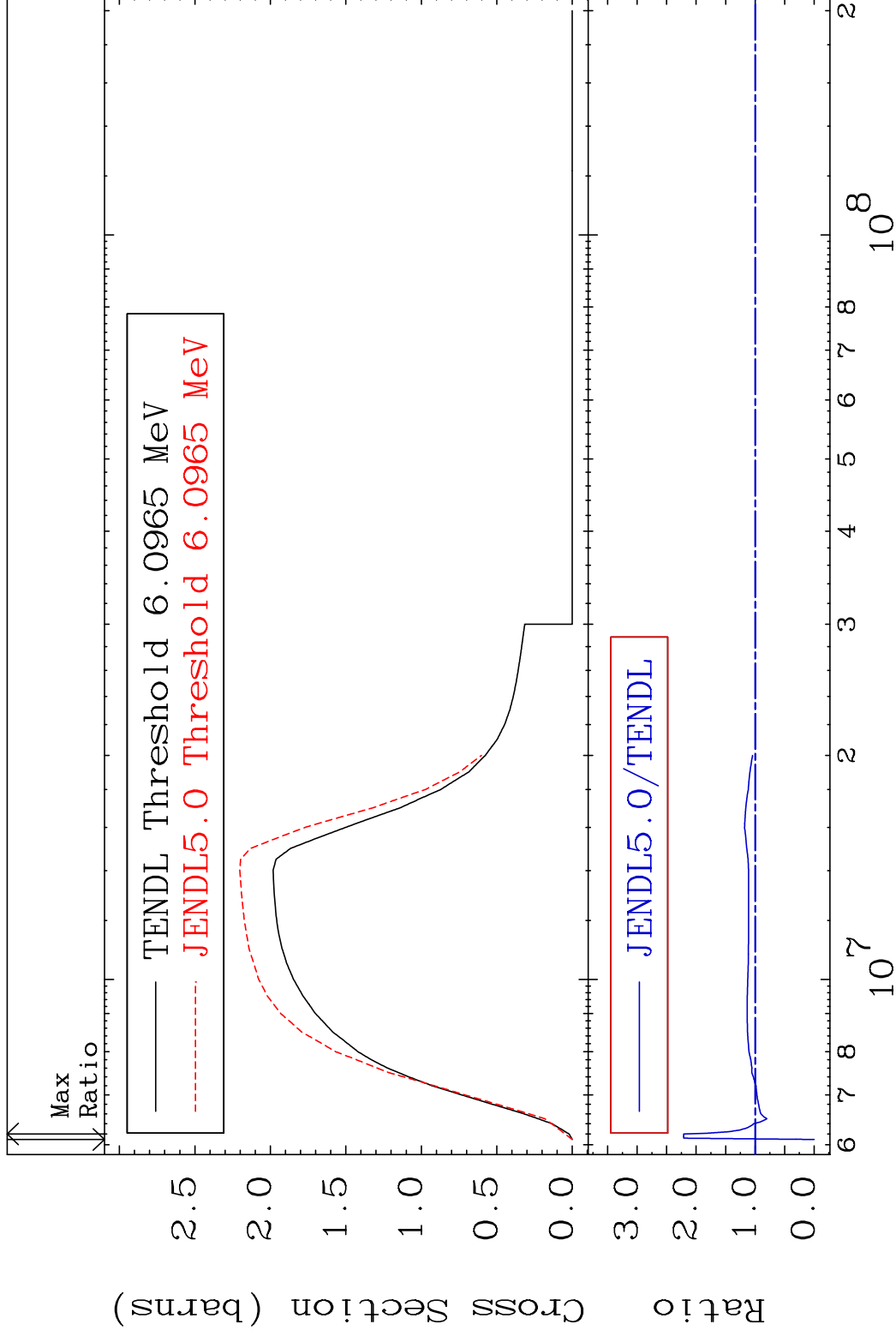


MAT 7331

(n,2n)

73-Ta-182

Cross Section -100.0 To 121.2 %



4

Incident Energy (eV)

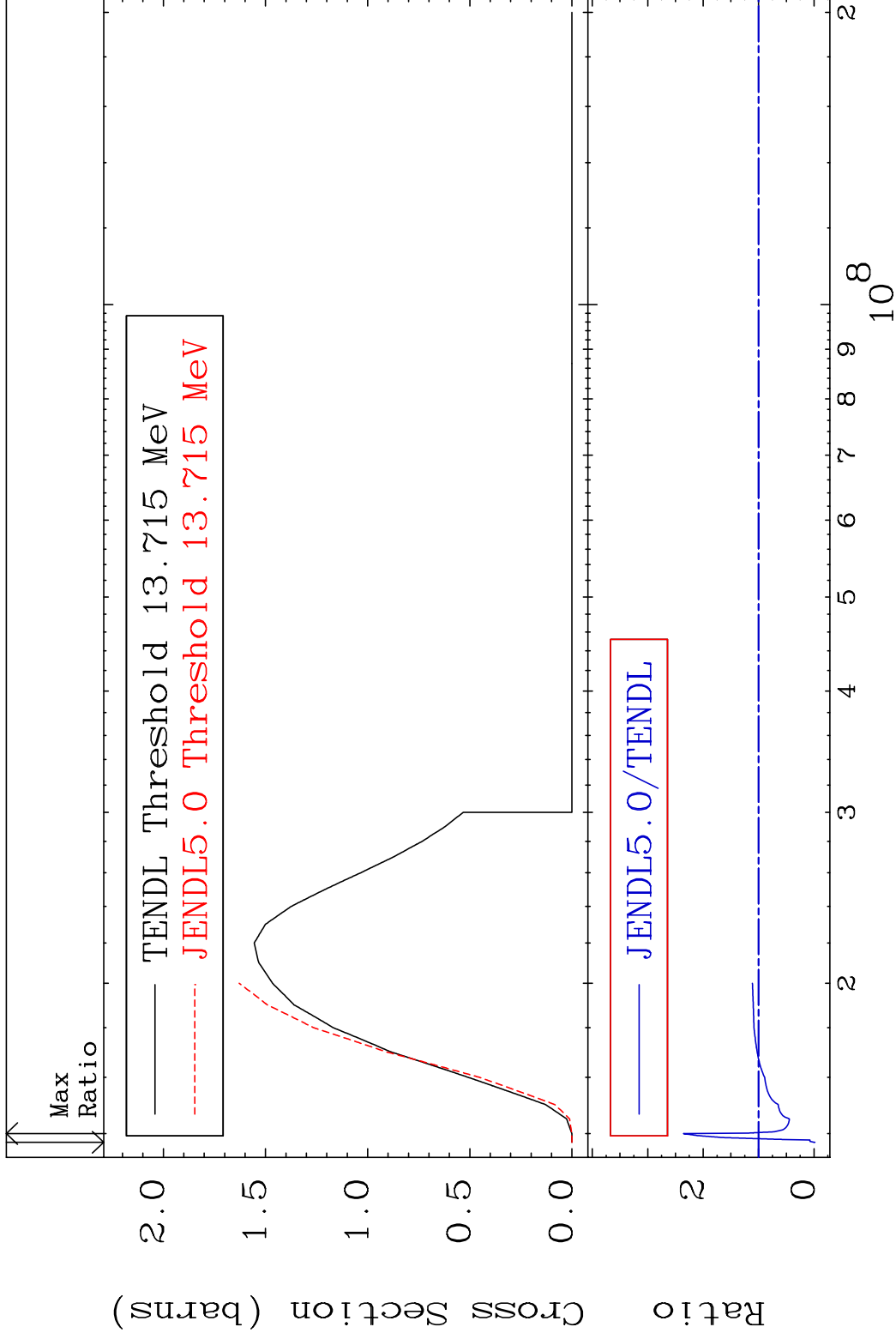
73-Ta-182

MAT 7331

(n,3n)

73-Ta-182

Cross Section -100.0 To 135.6 %



5

Incident Energy (eV)

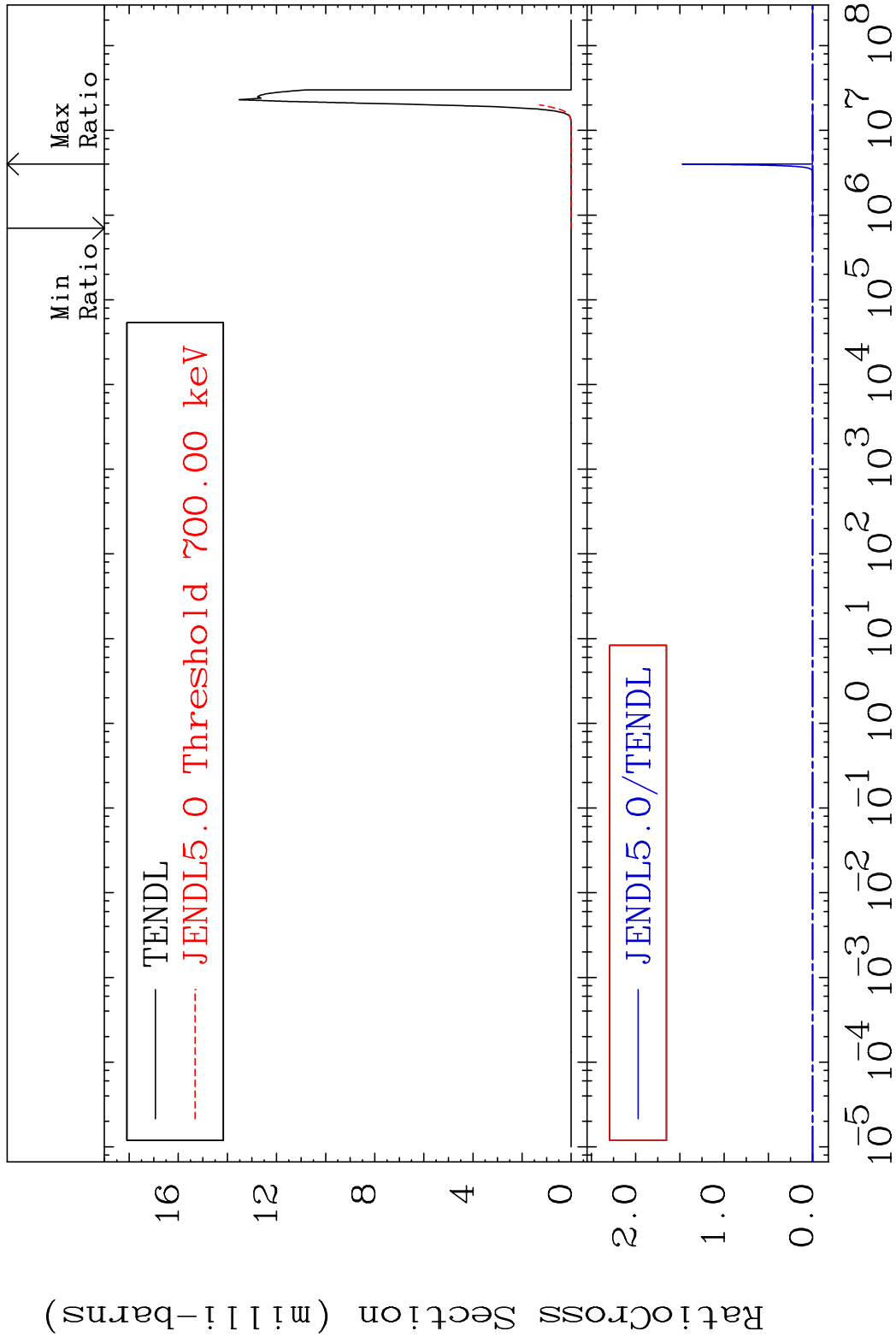
73-Ta-182

MAT 7331

(n, n') α

73-Ta-182

Cross Section -100.0 To 9999. %

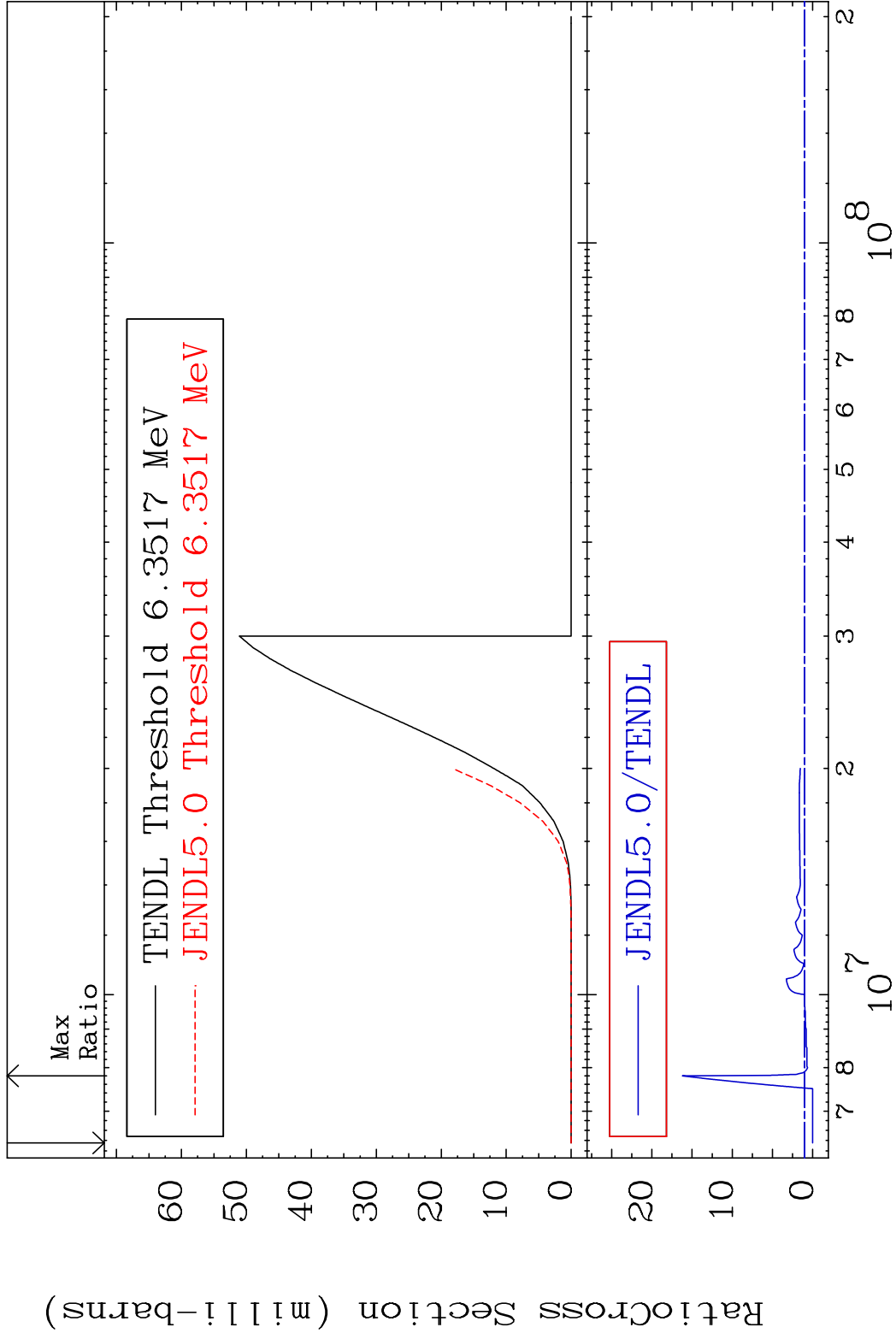


MAT 7331

(n, n') p

73-Ta-182

Cross Section -100.0 To 1521. %



7

Incident Energy (eV)

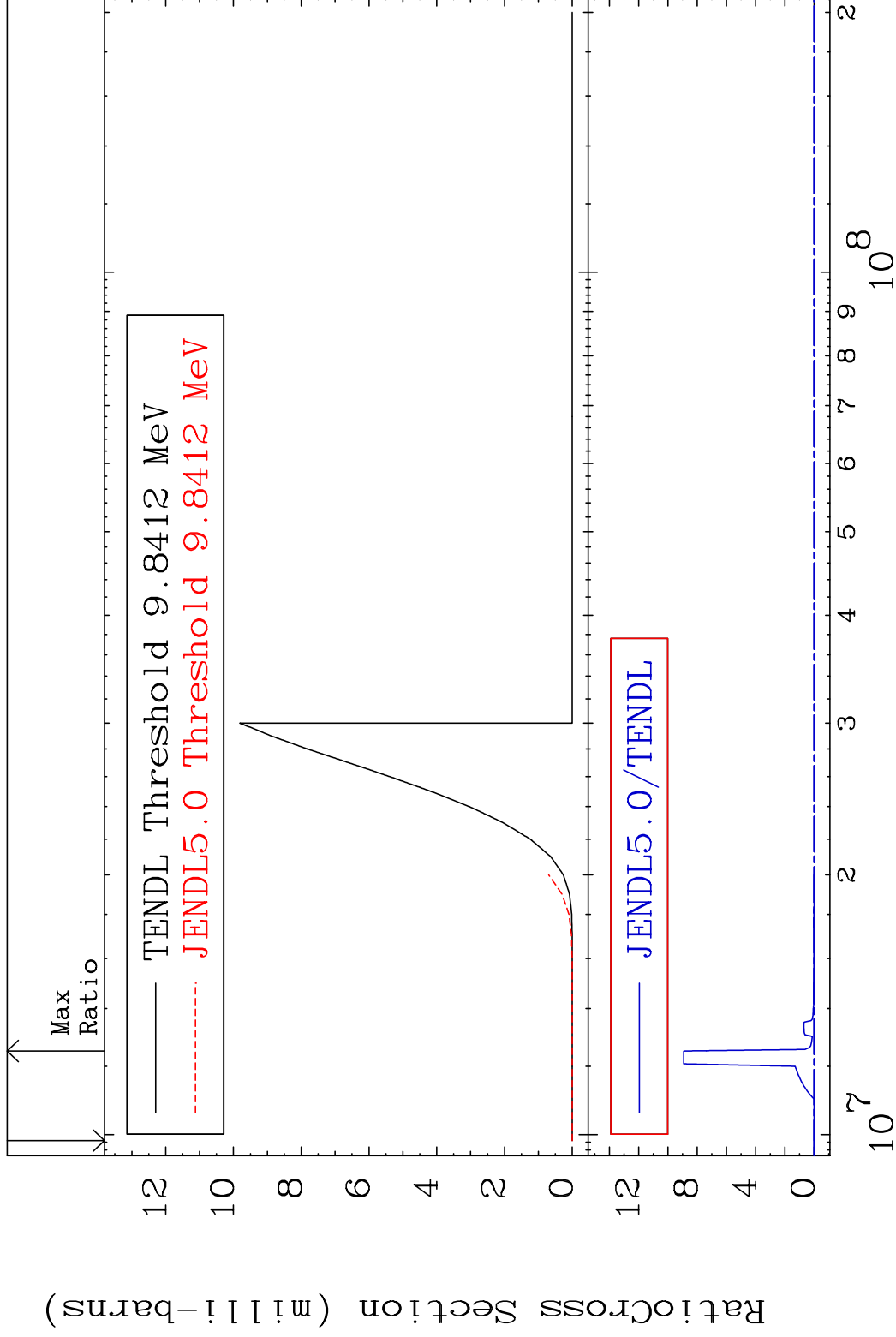
73-Ta-182

MAT 7331

(n, n') d

73-Ta-182

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

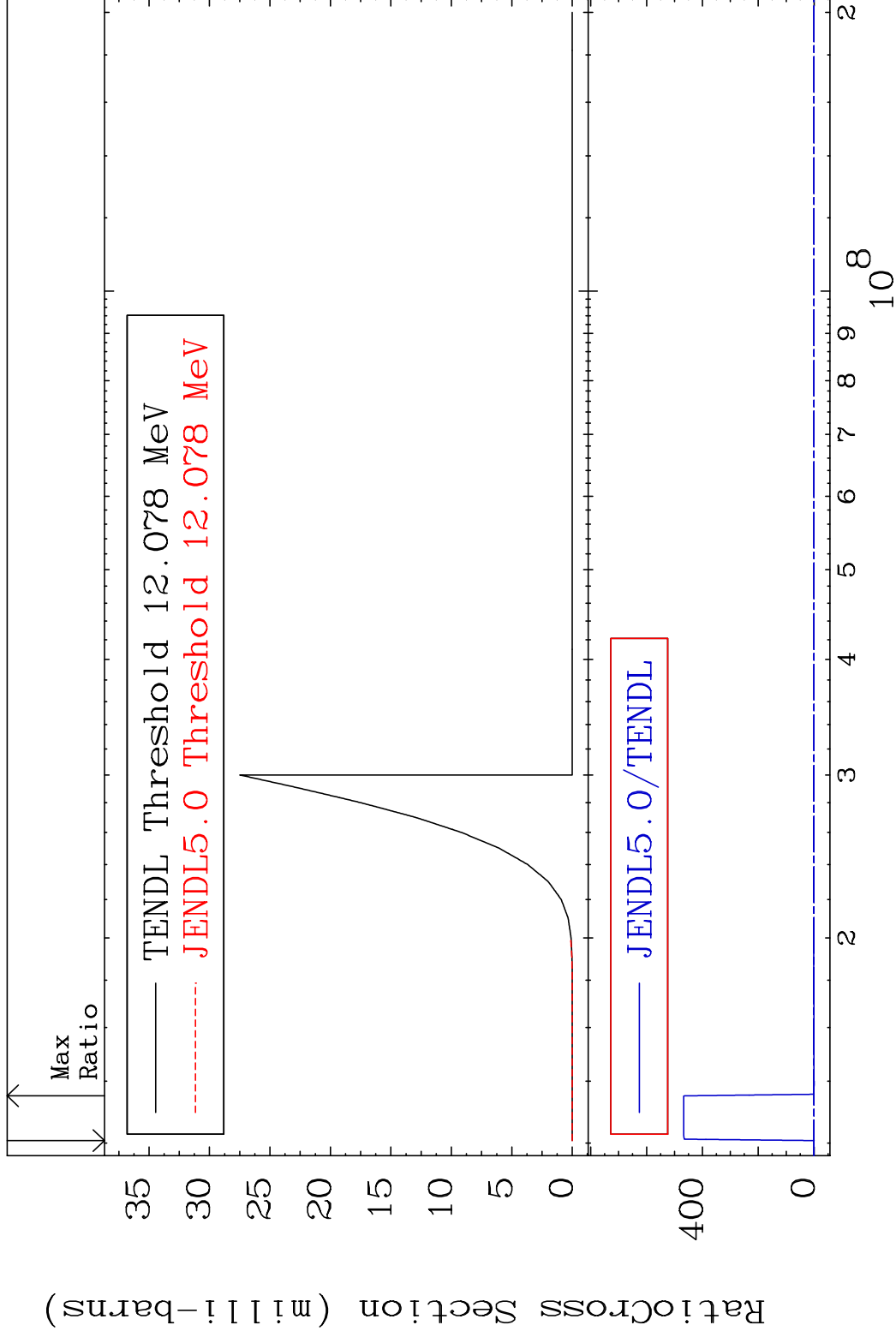
73-Ta-182

MAT 7331

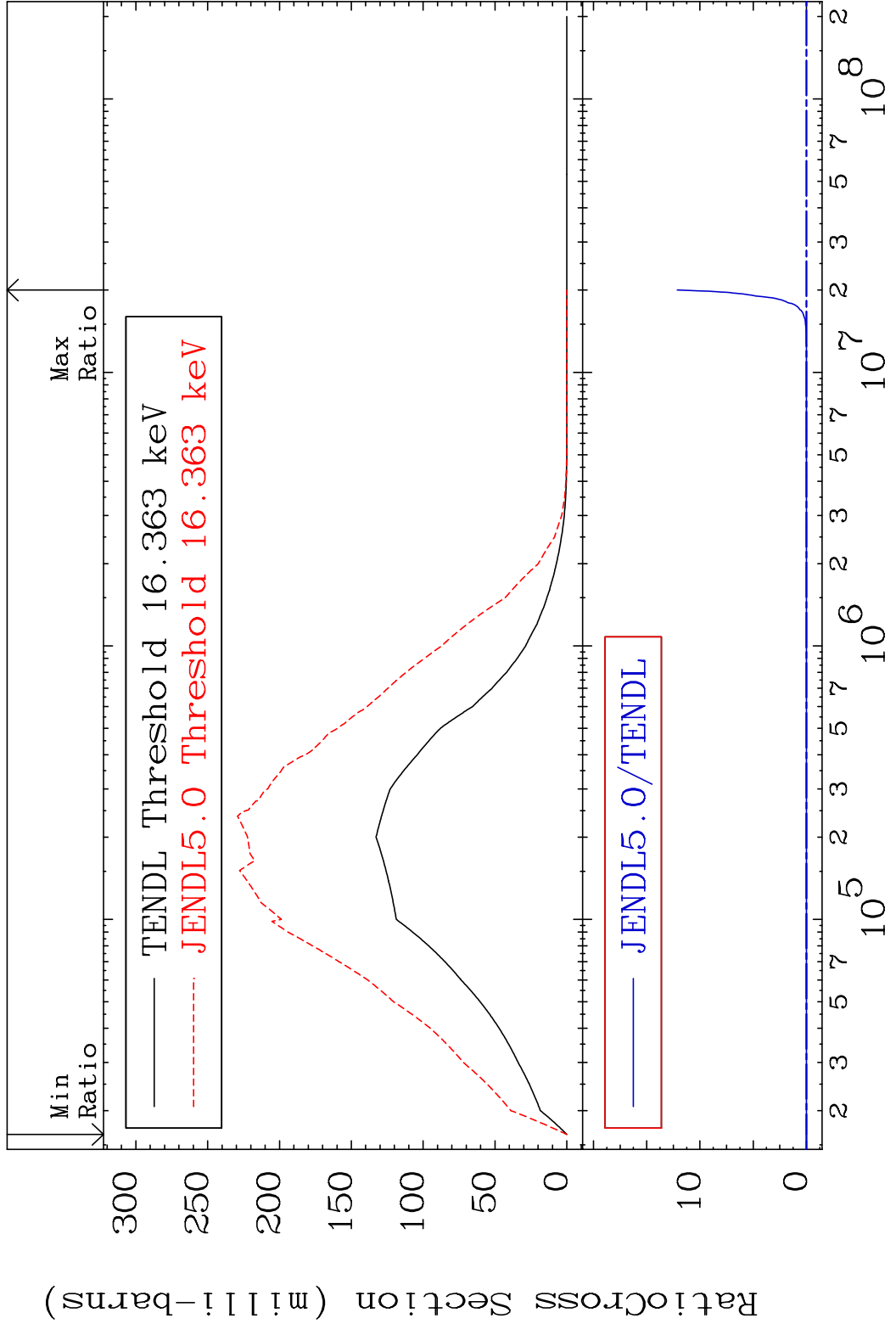
(n,2n) p

73-Ta-182

Cross Section -100.0 To 9999. %

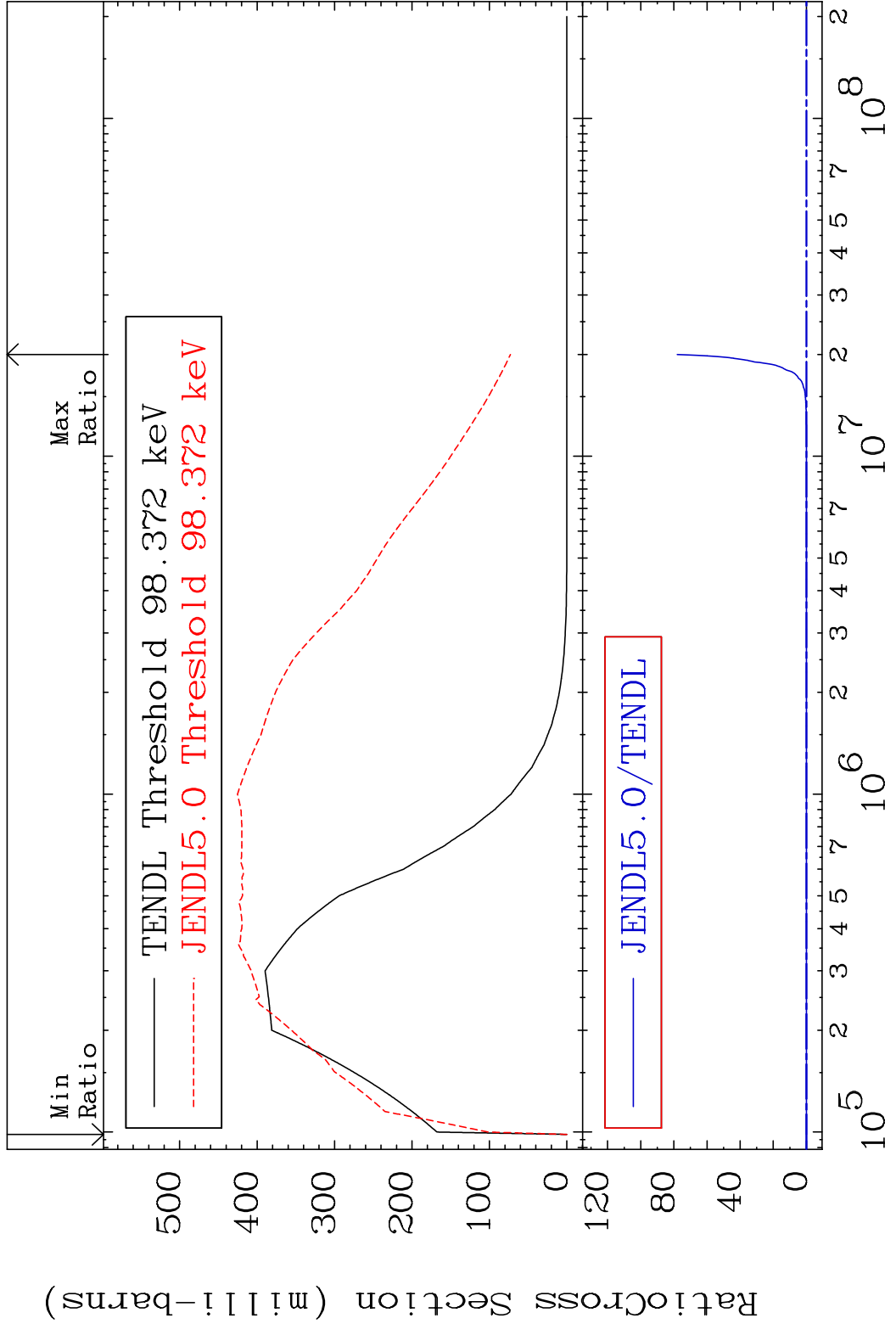


MAT 7331 MT= 51 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



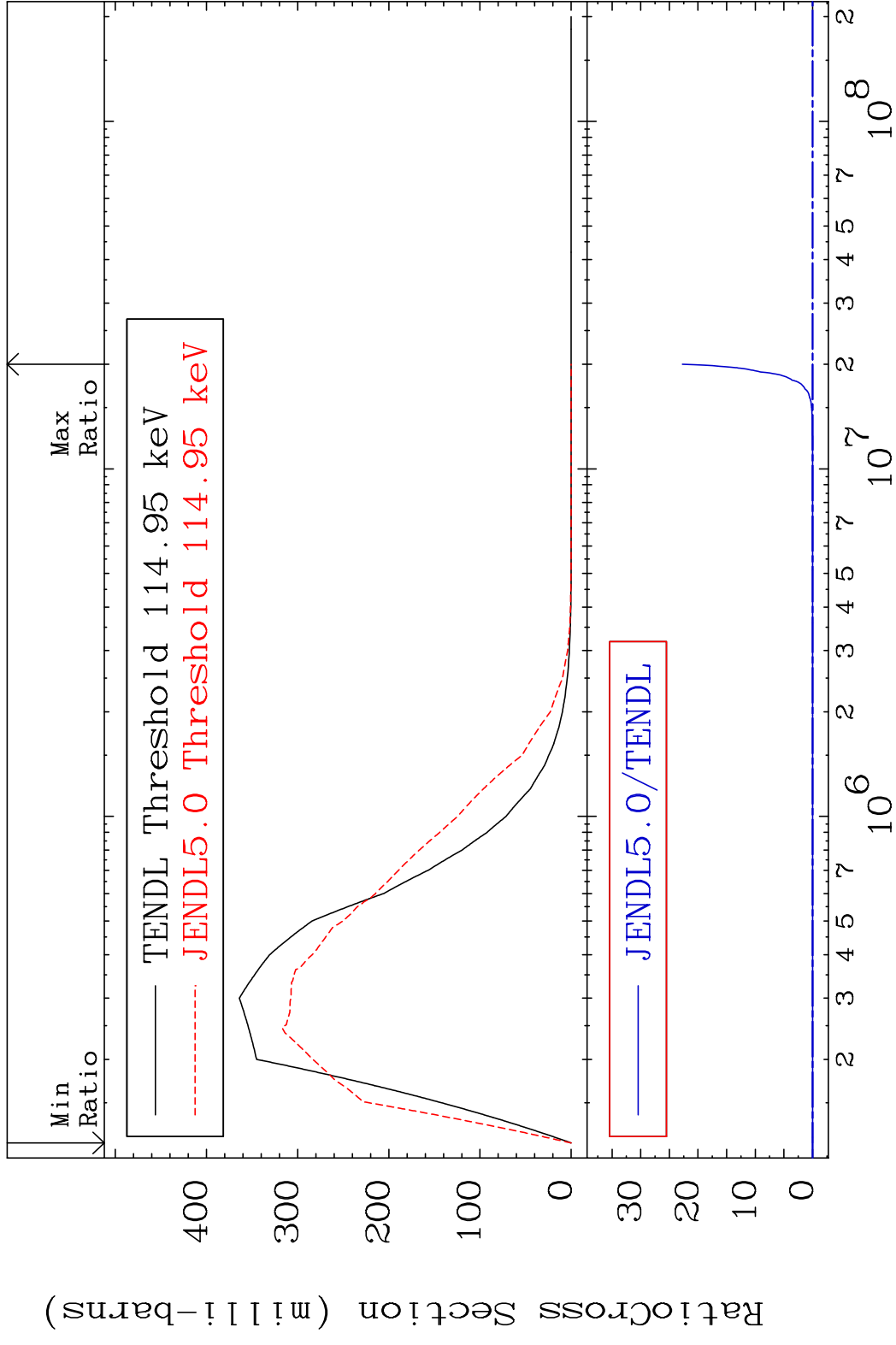
10 Incident Energy (eV) 73-Ta-182

MAT 7331 MT= 52 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %

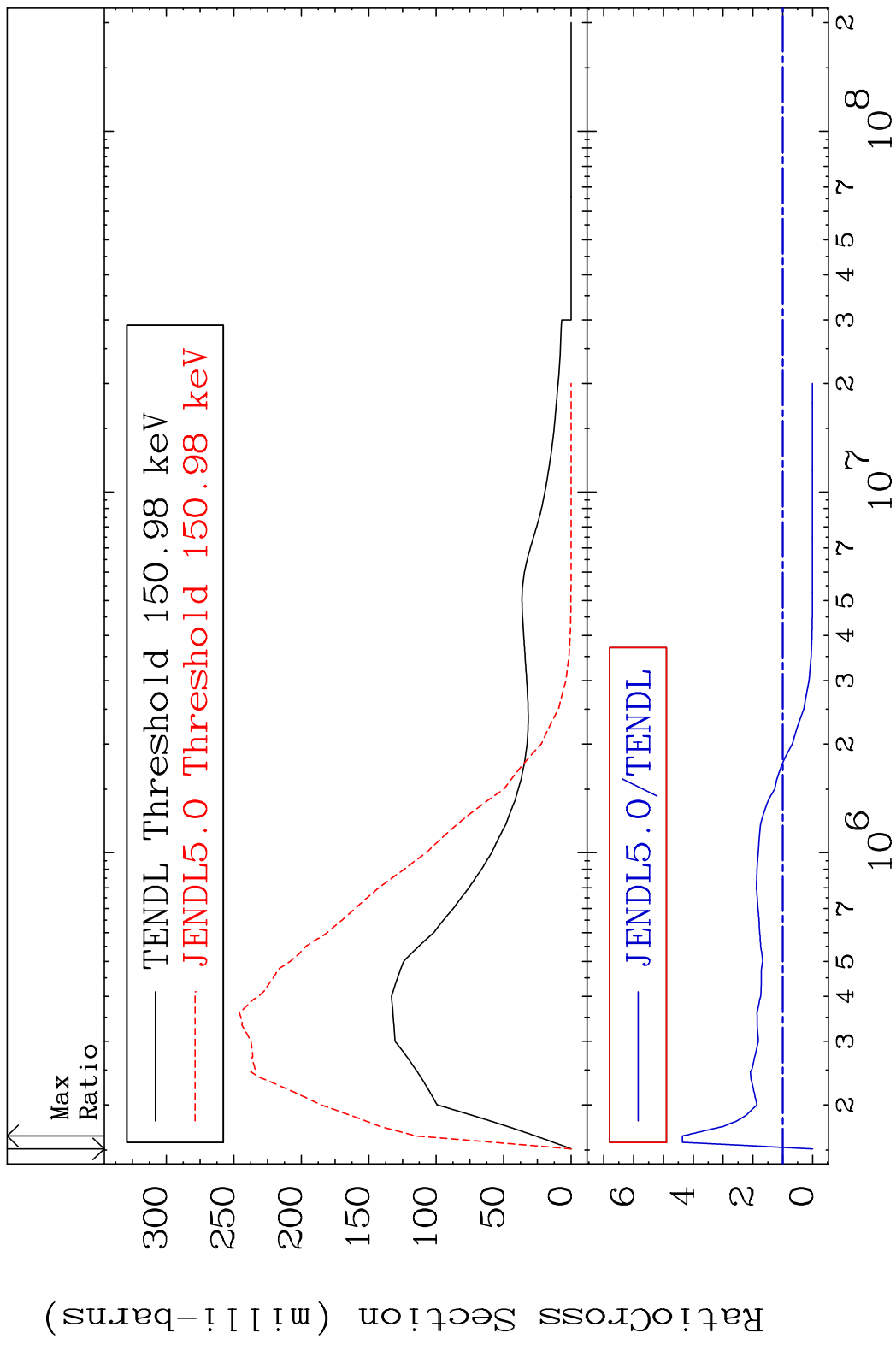


11 Incident Energy (eV) 73-Ta-182

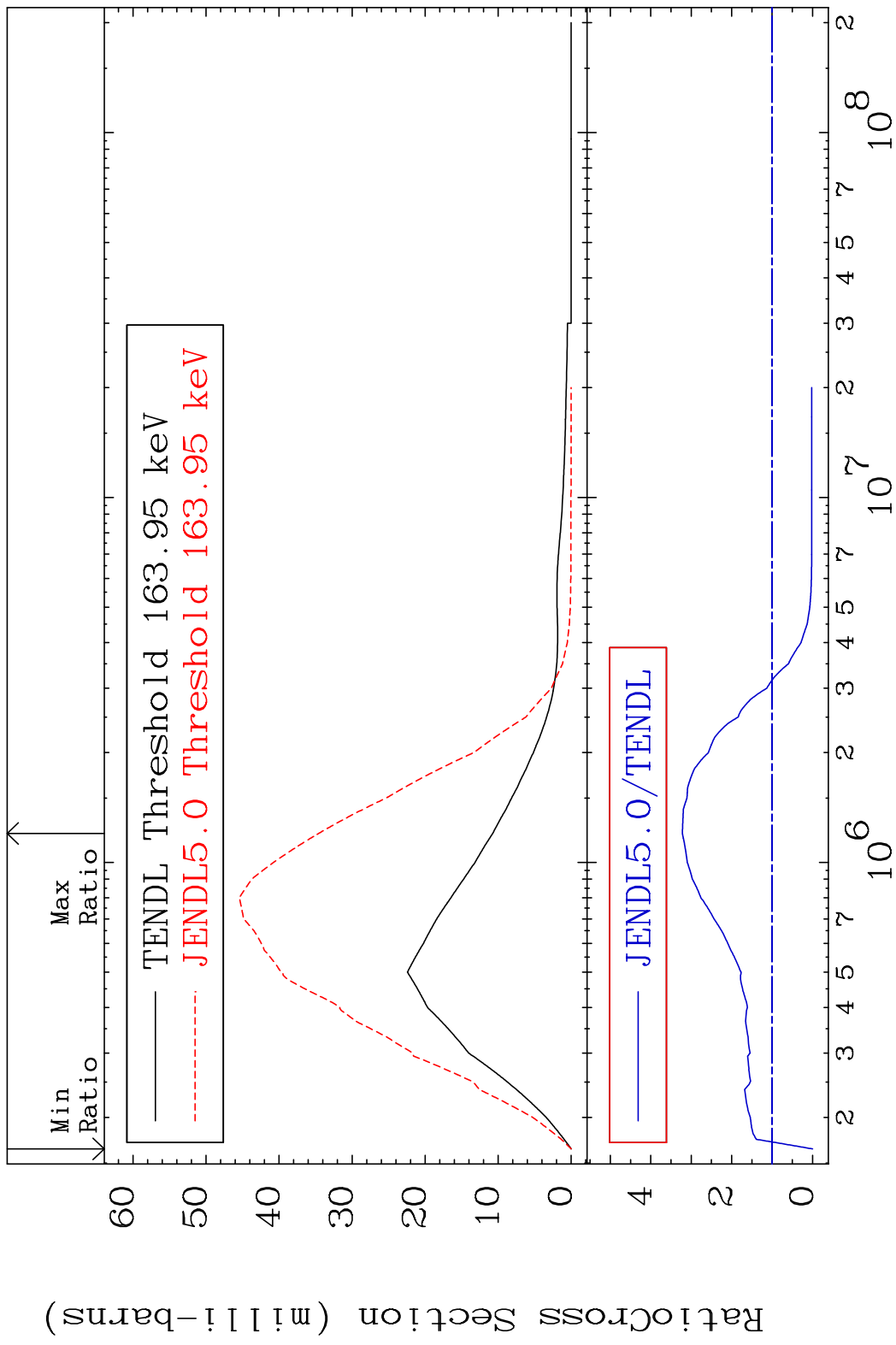
MAT 7331 MT= 53 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



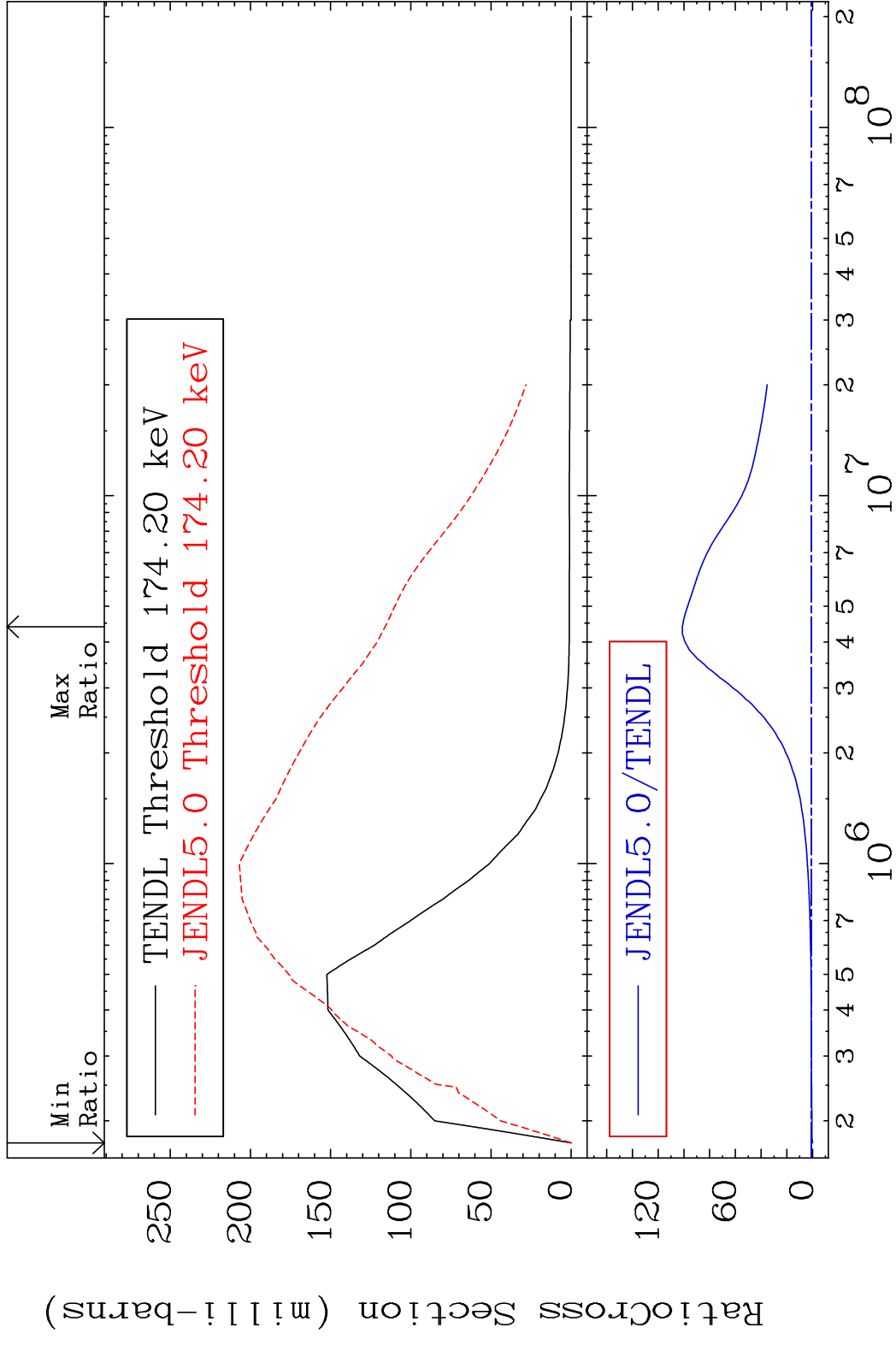
MAT 7331 MT= 54 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 336.6 %



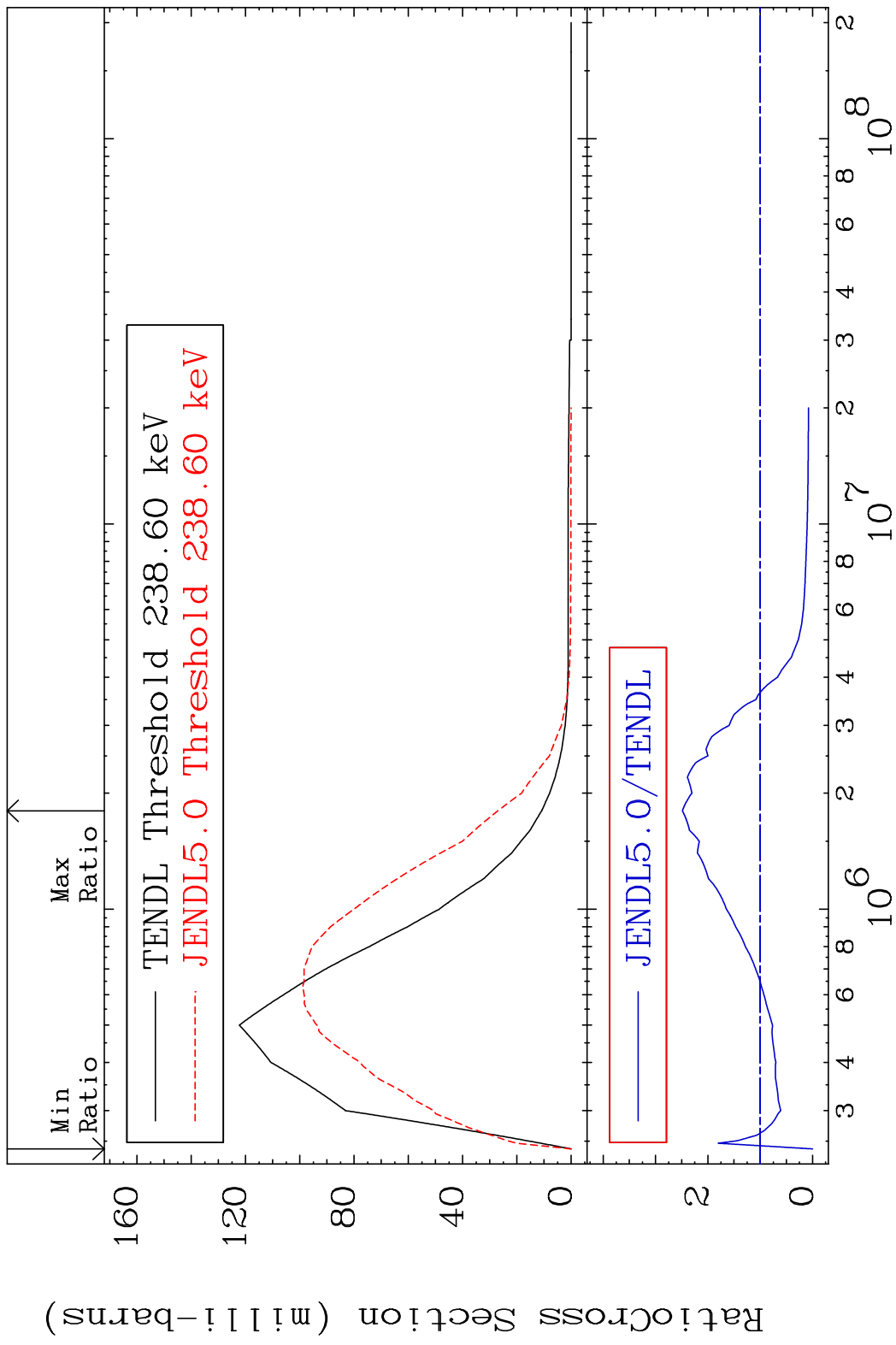
MAT 7331 MT= 55 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 221.9 %



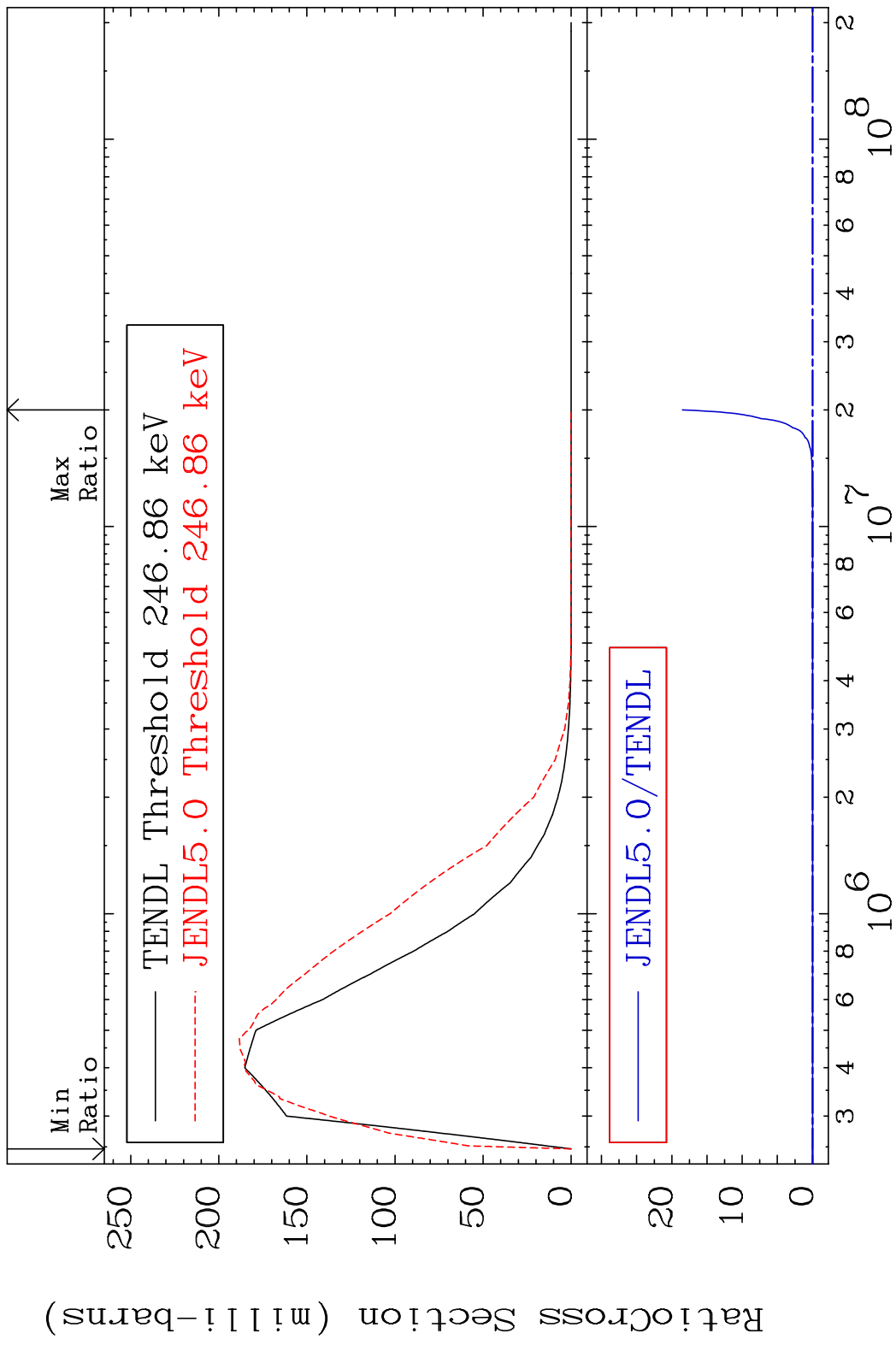
MAT 7331 MT= 56 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



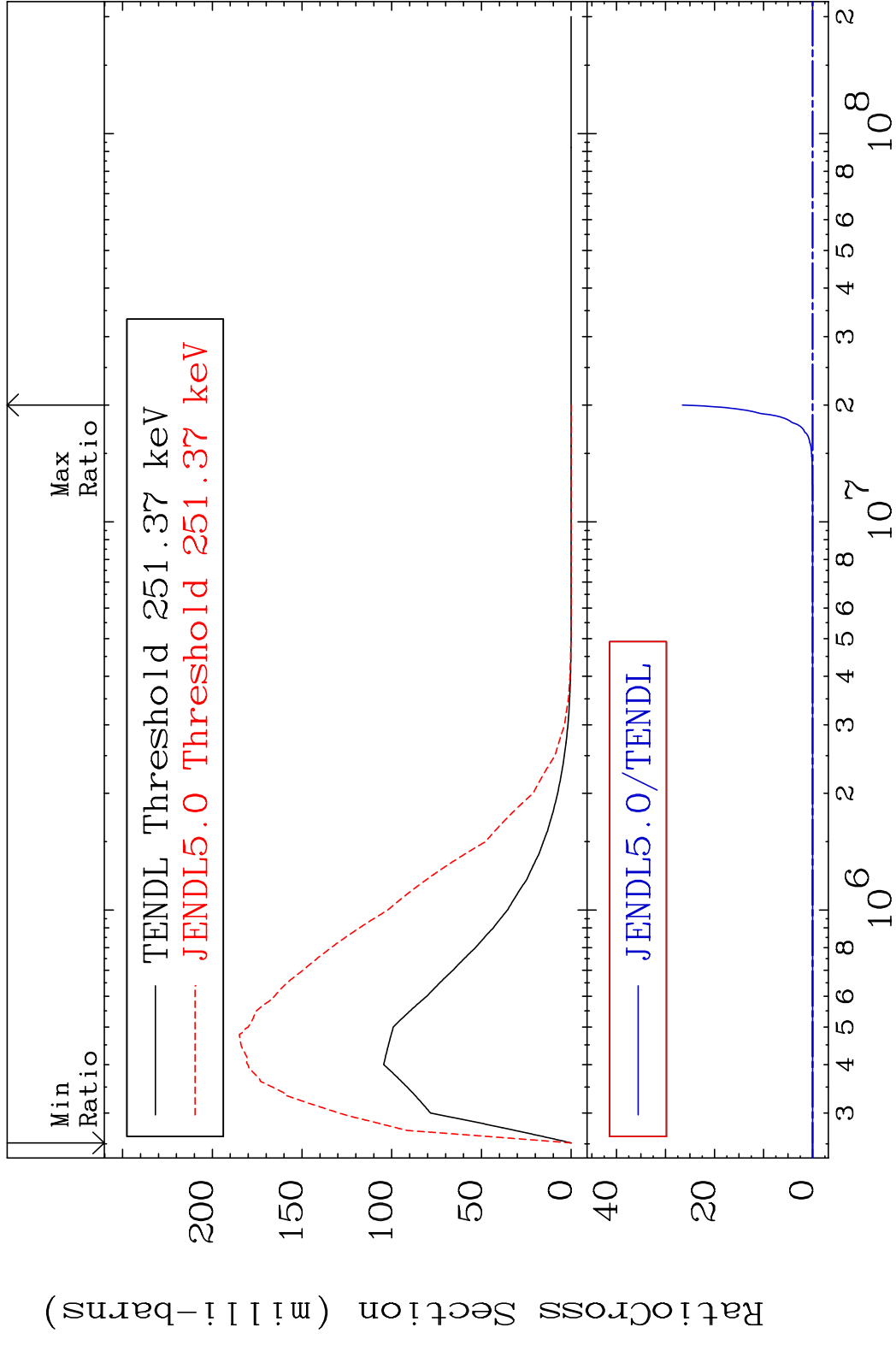
MAT 7331 MT= 57 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 148.7 %



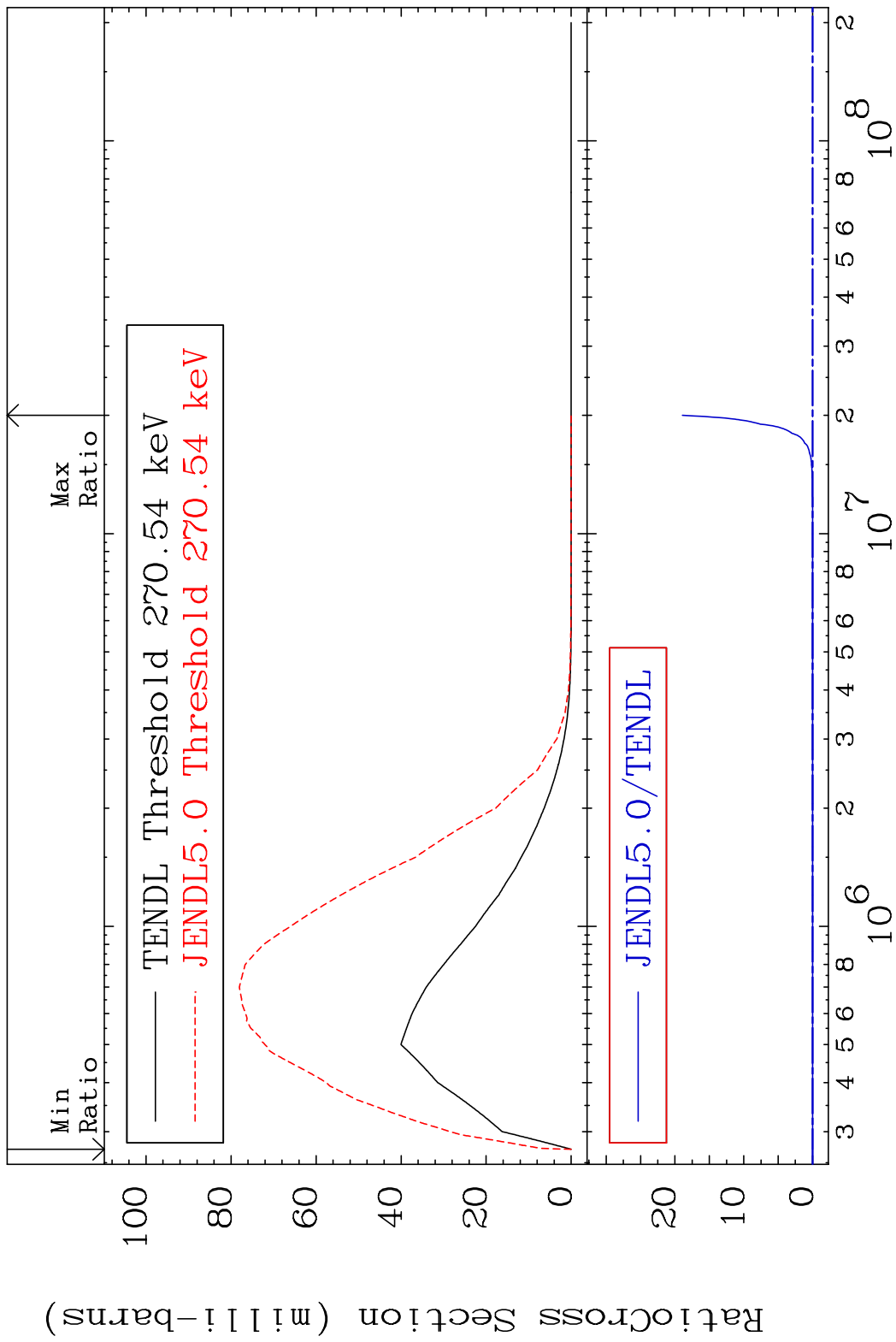
MAT 7331 MT= 58 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



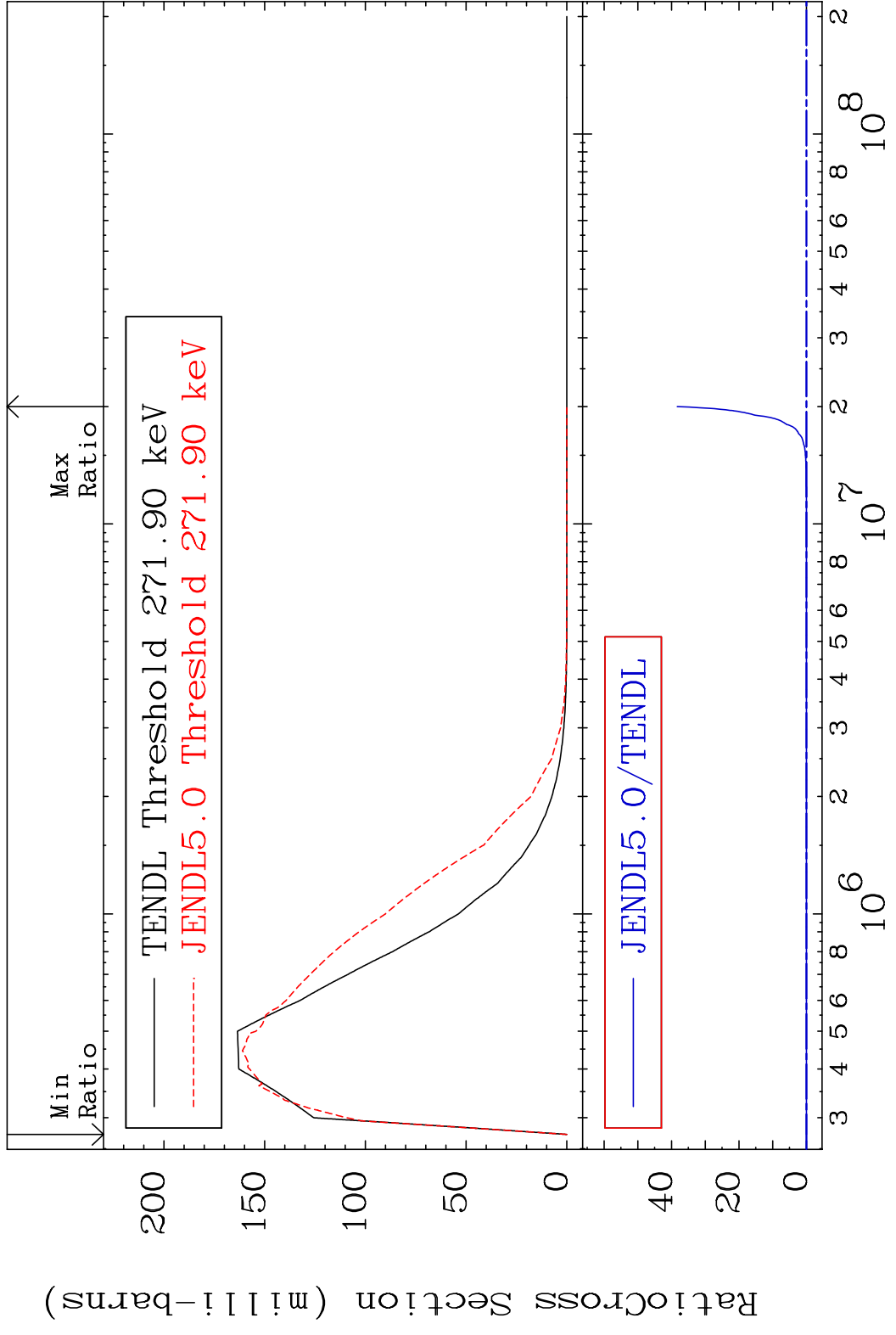
MAT 7331 MT= 59 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



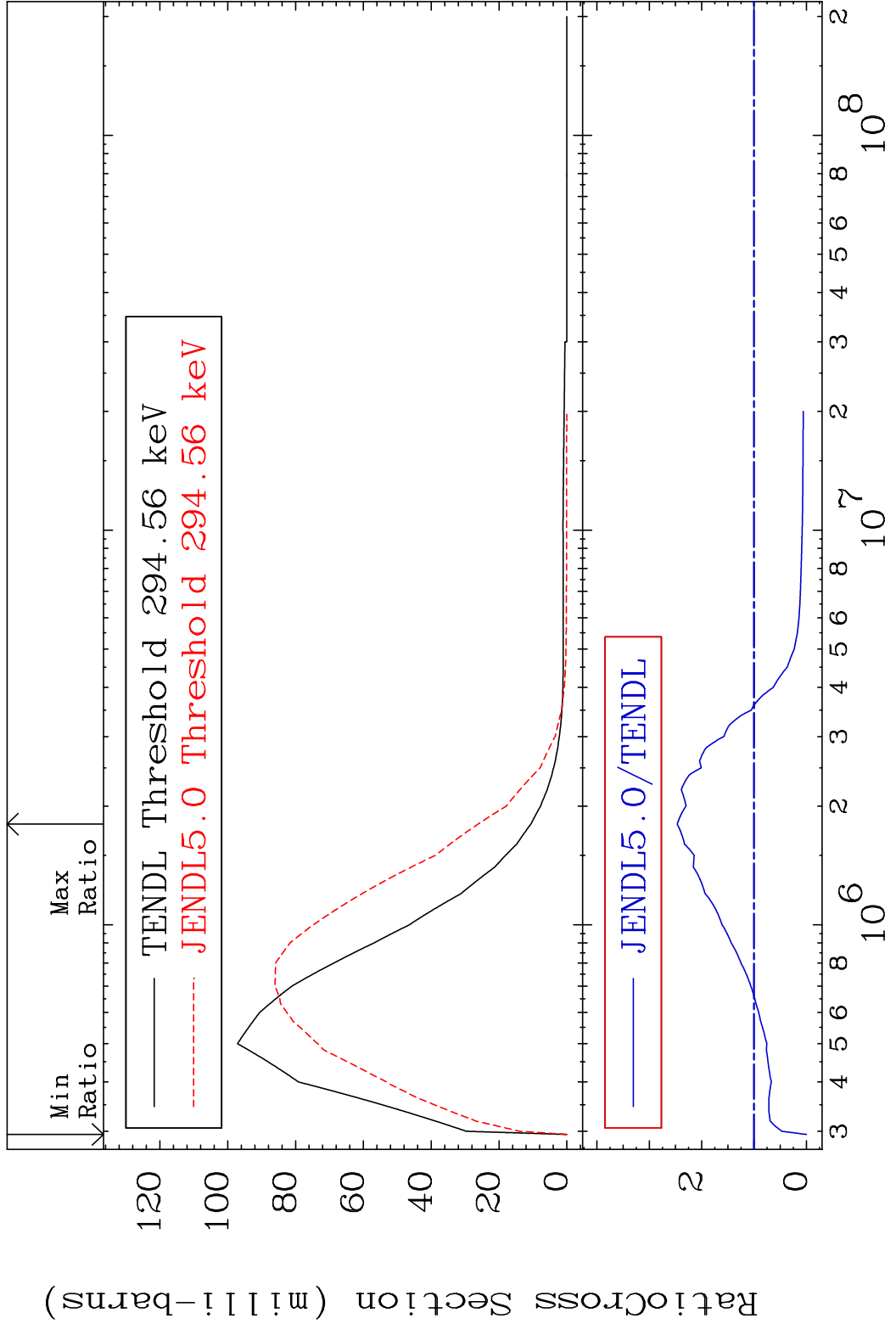
MAT 7331 MT= 60 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



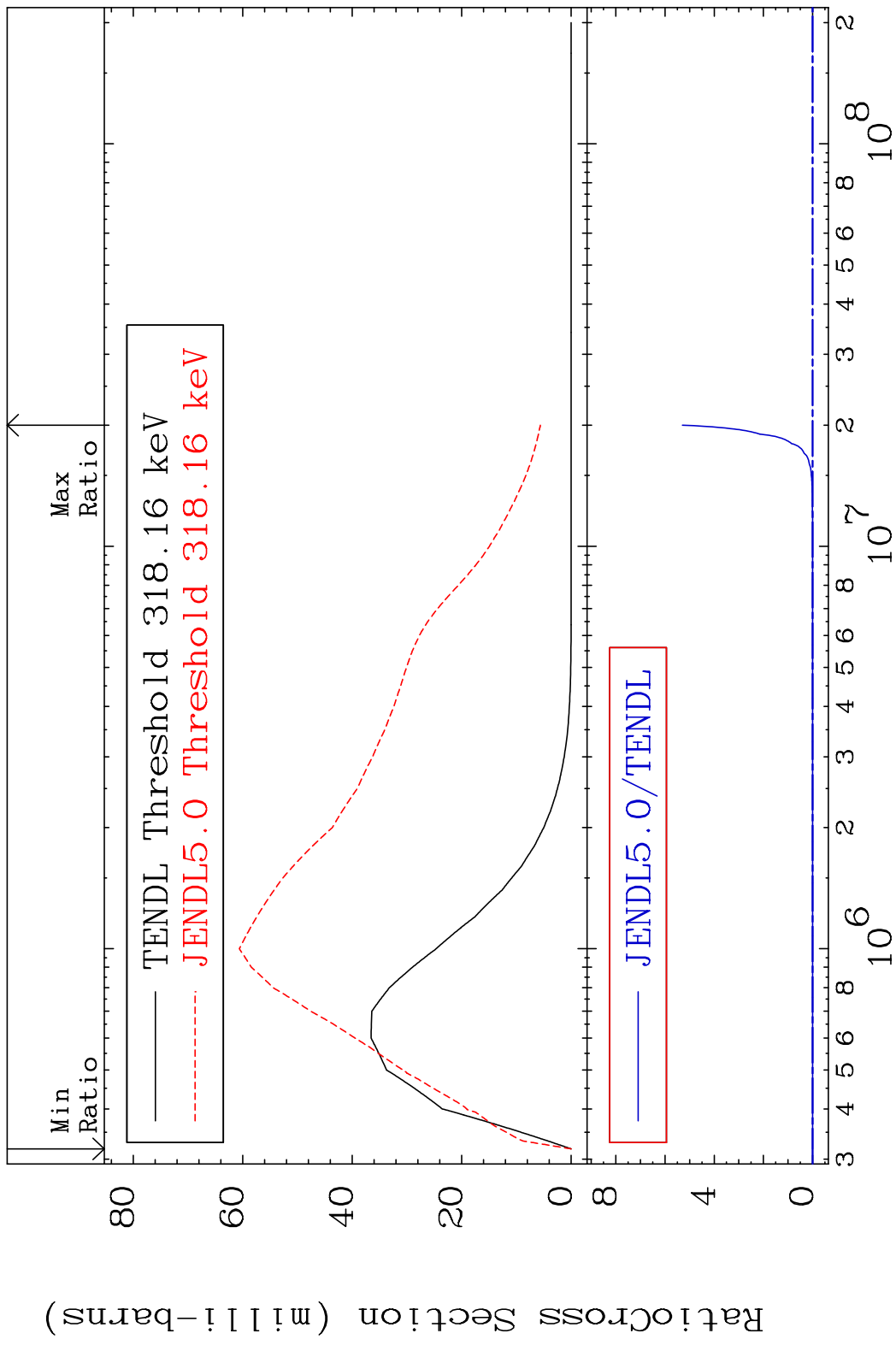
MAT 7331 MT= 61 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



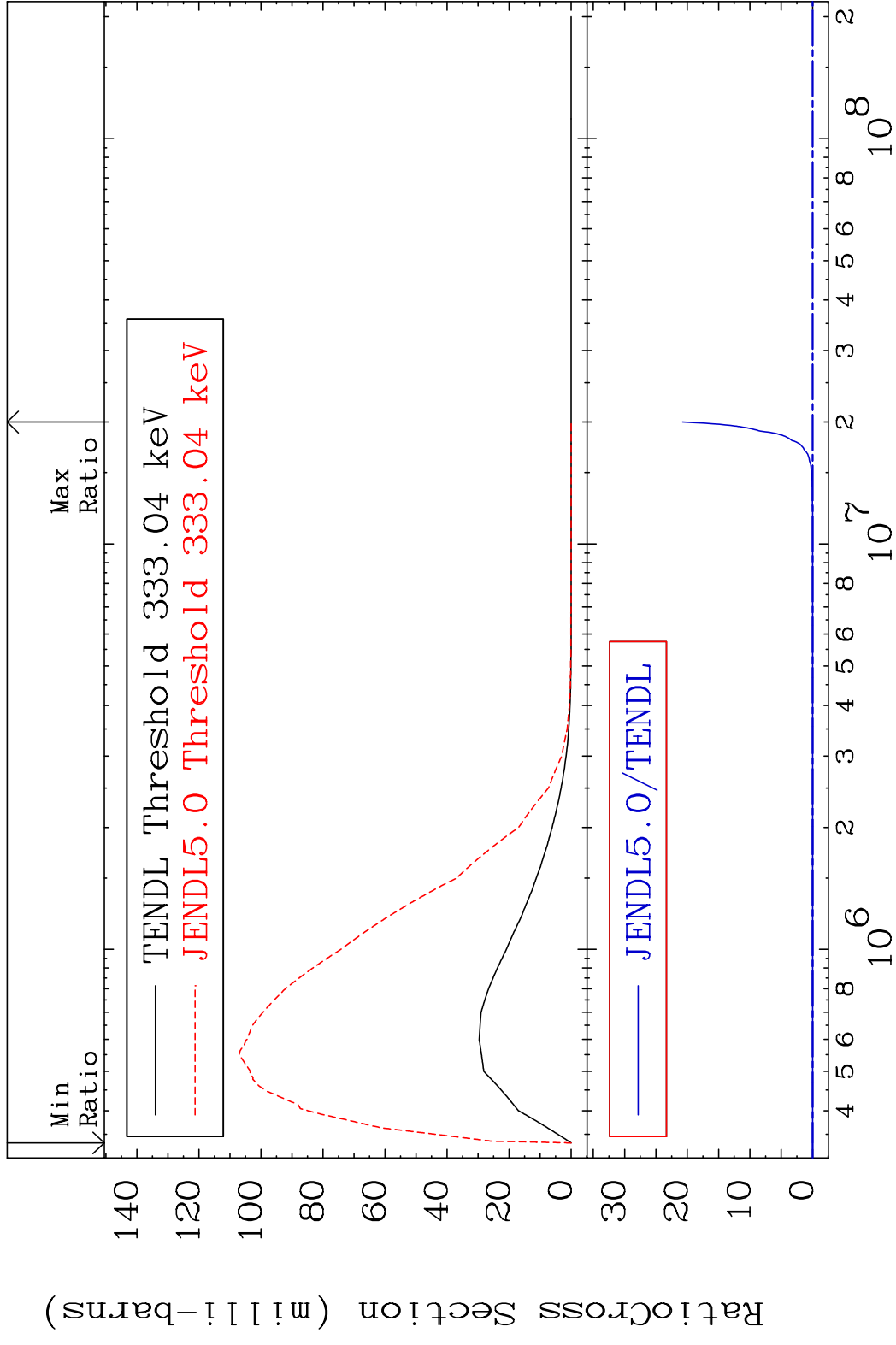
MAT 7331 MT= 62 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 146.8 %



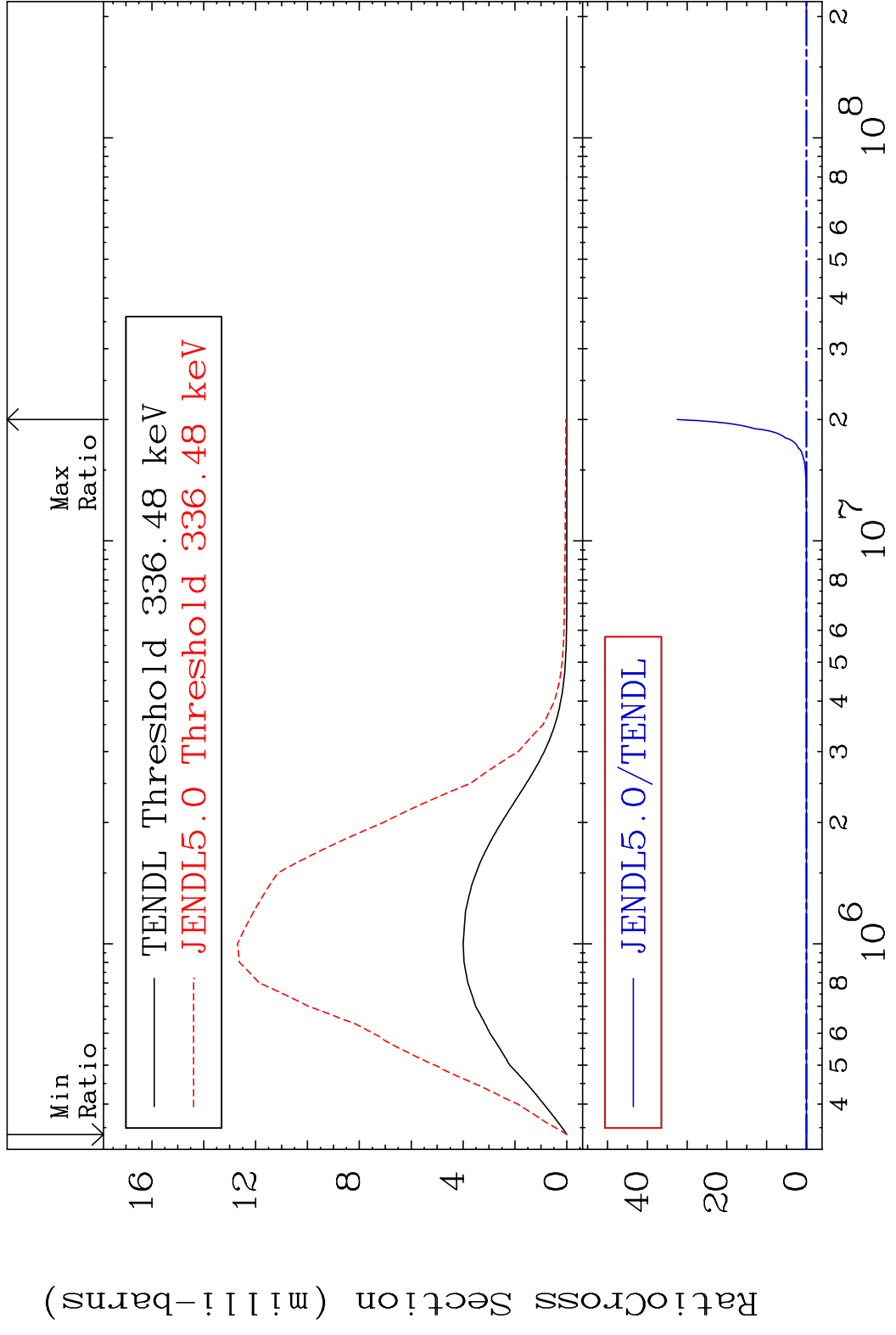
MAT 7331 MT= 63 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



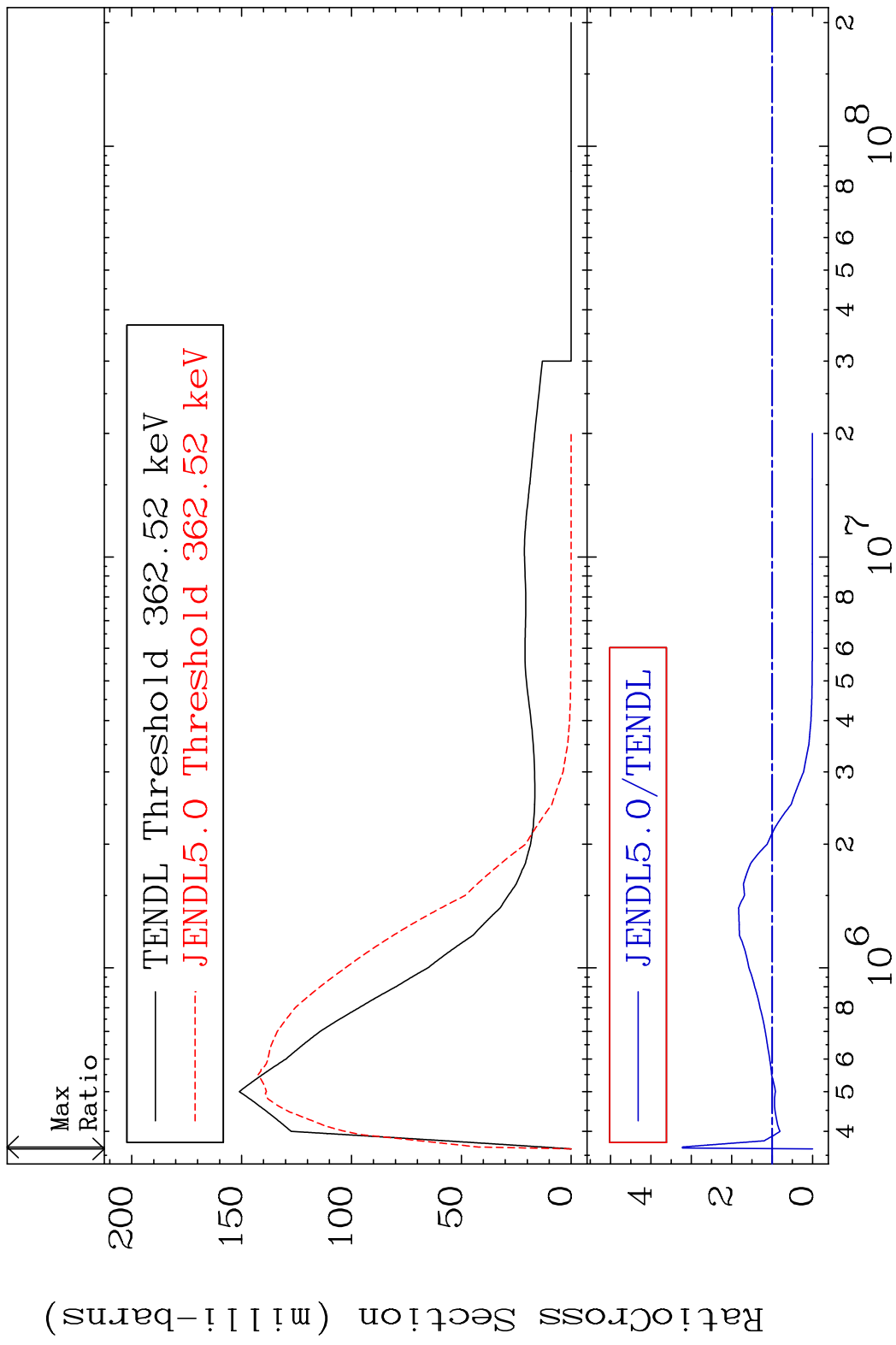
MAT 7331 MT= 64 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



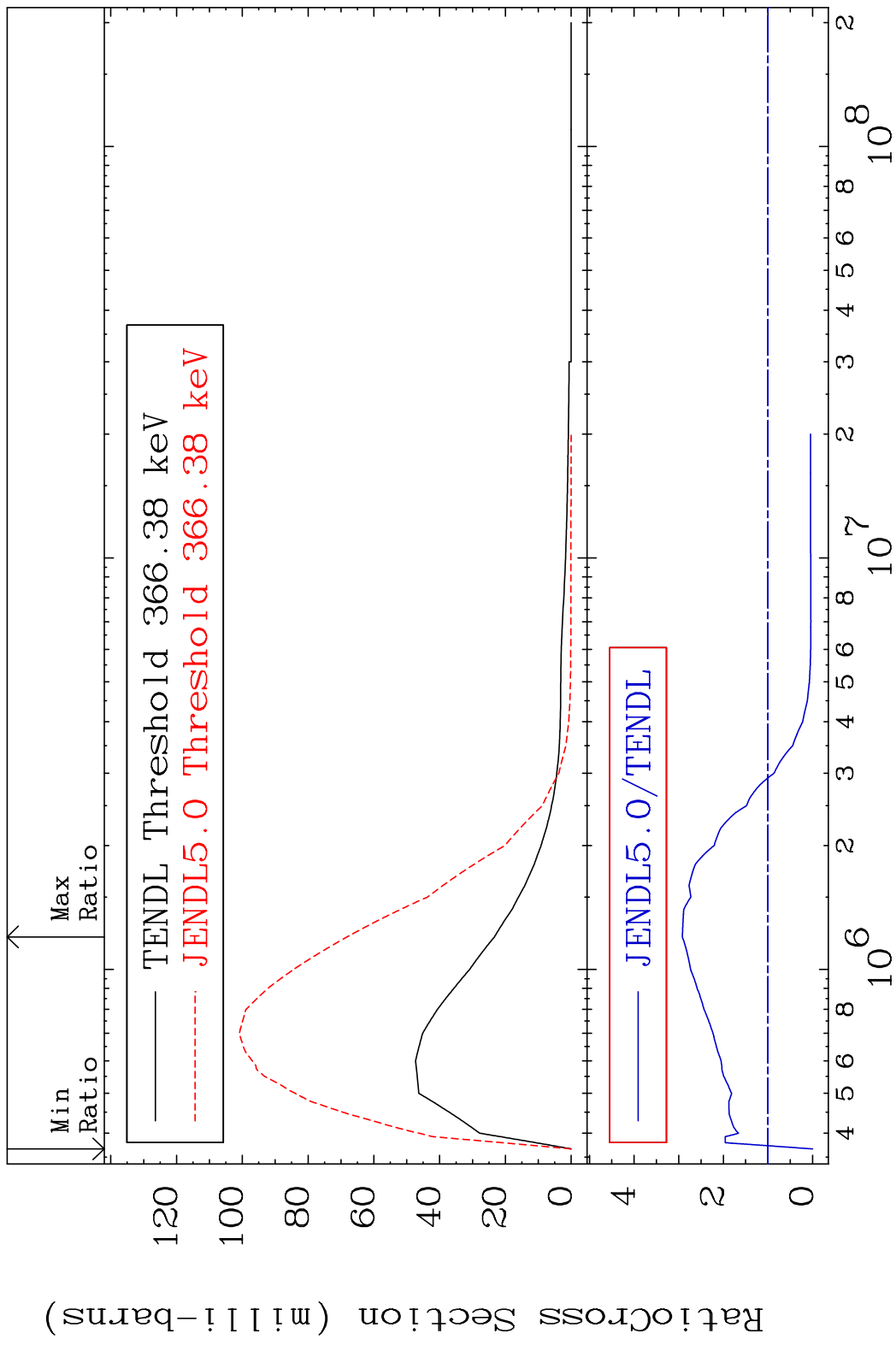
MAT 7331 MT= 65 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



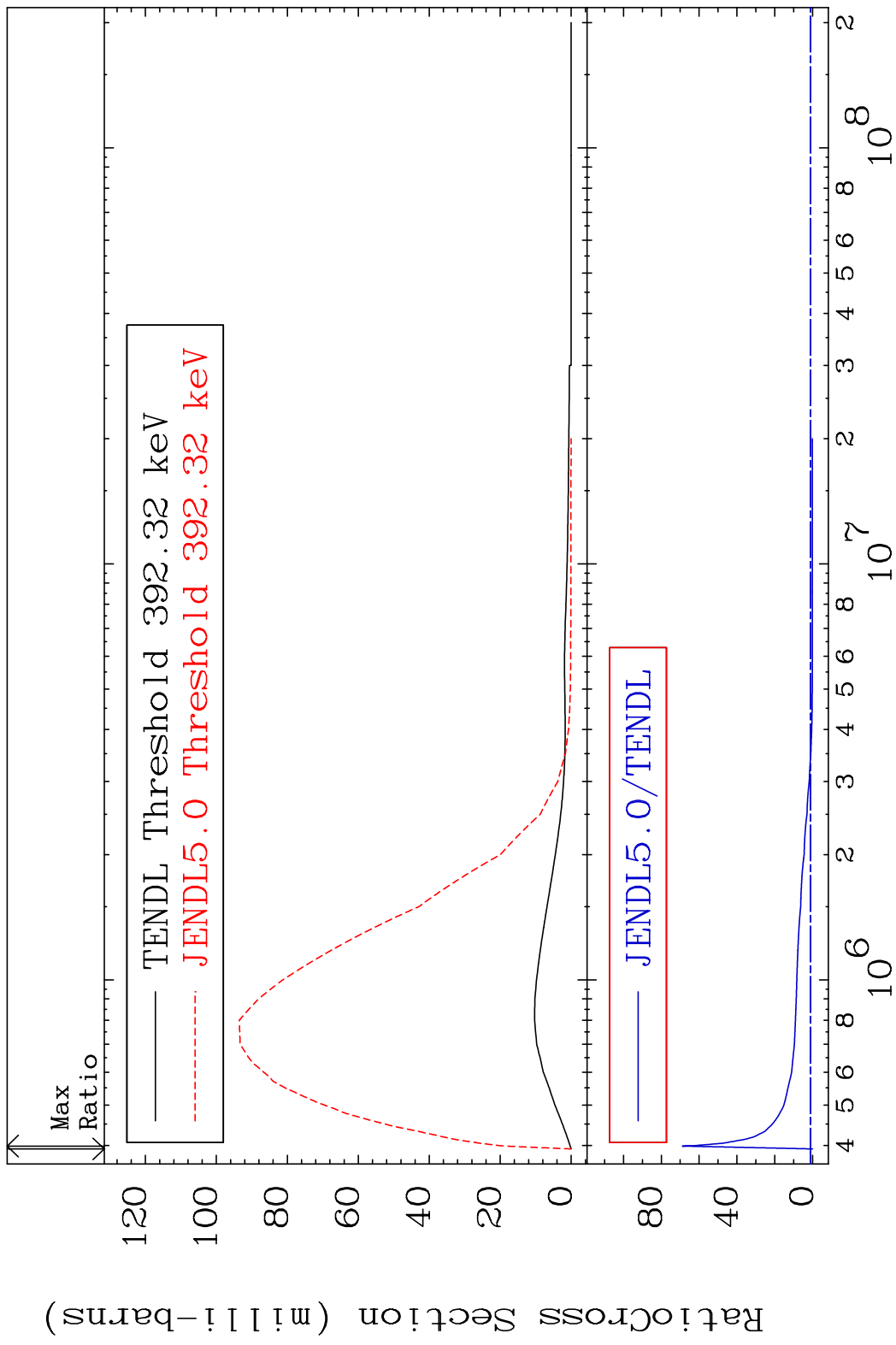
MAT 7331 MT= 66 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 222.3 %



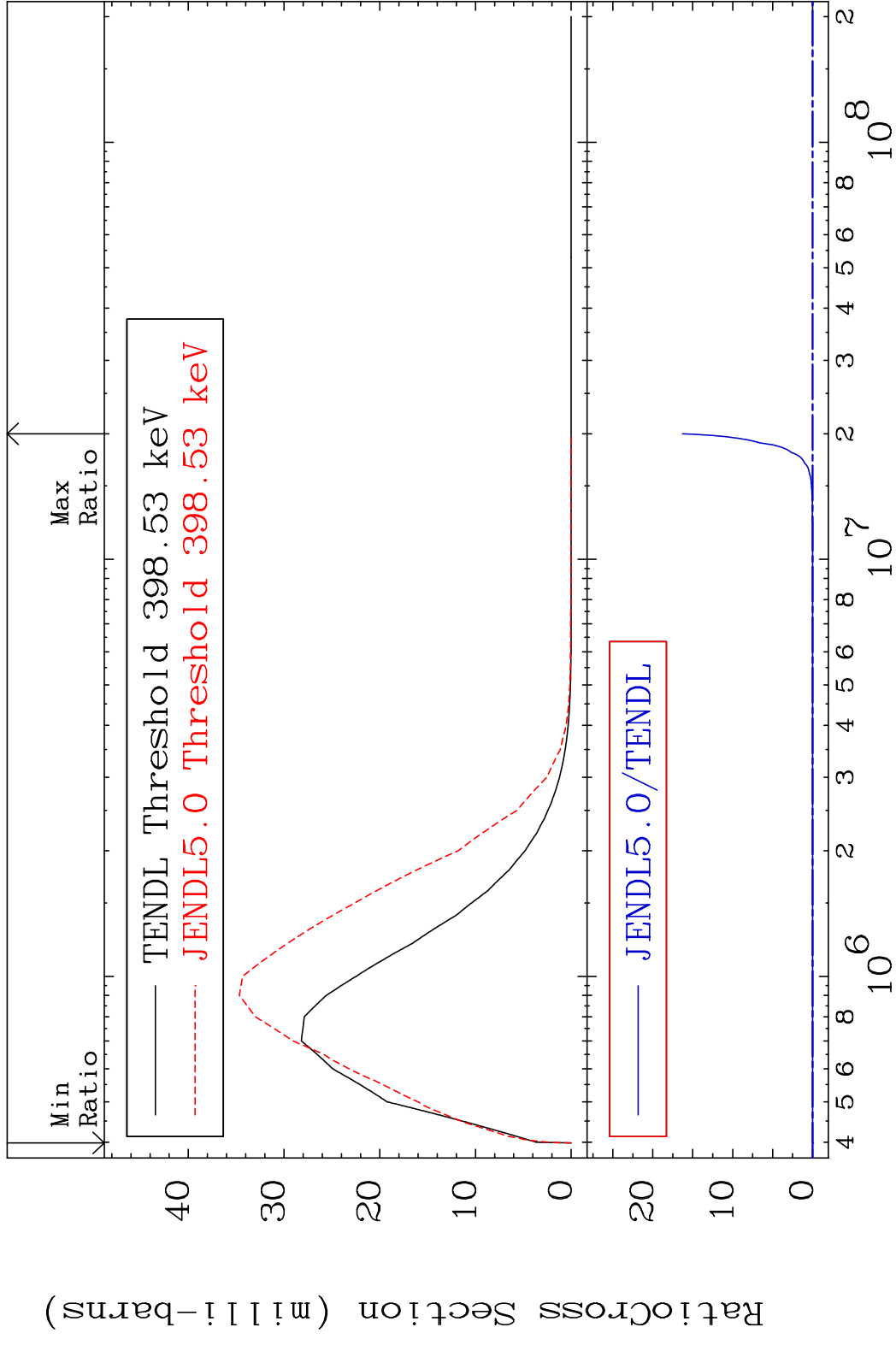
MAT 7331 MT= 67 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 191.9 %



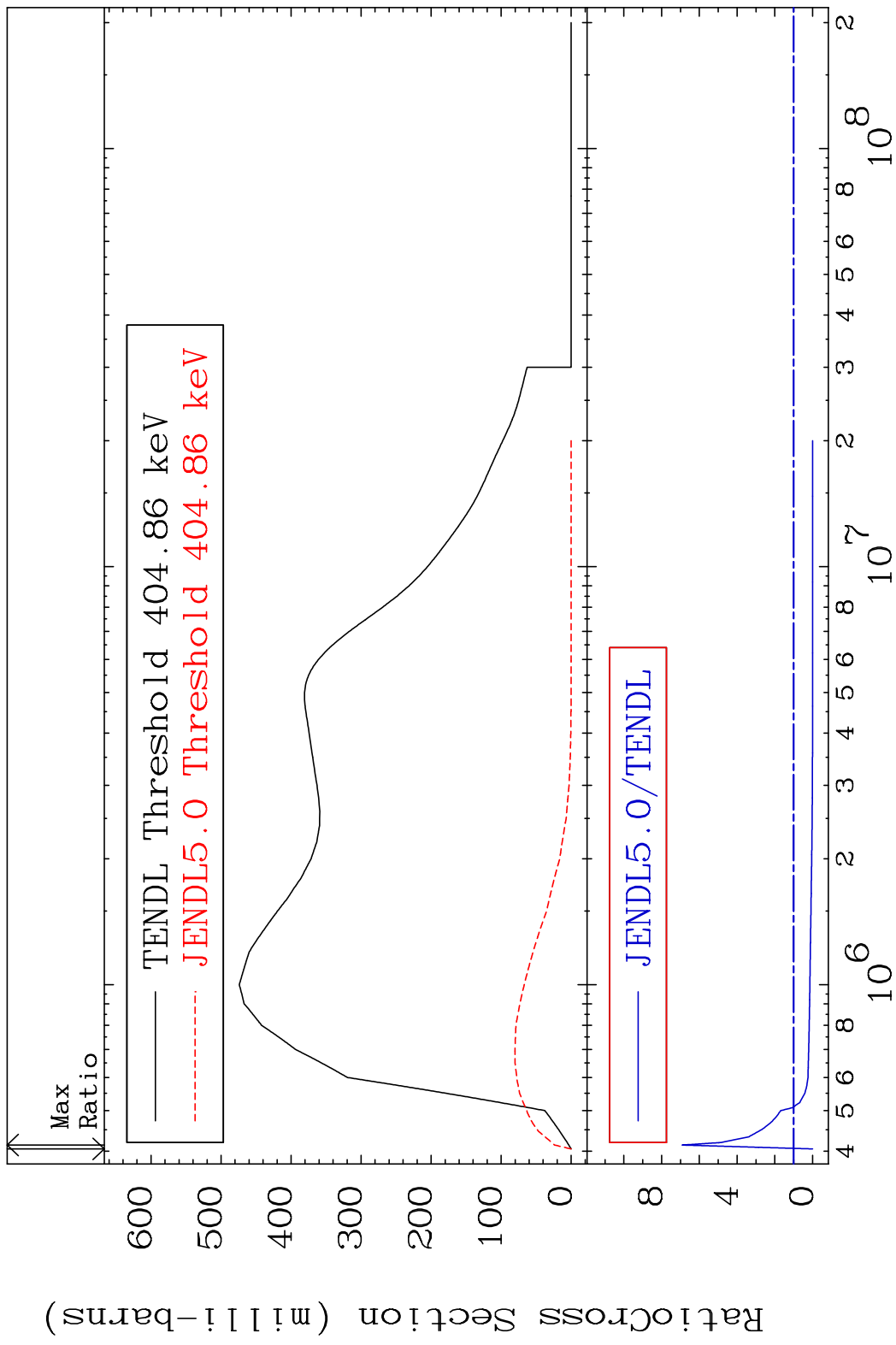
MAT 7331 MT= 68 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 6787. %



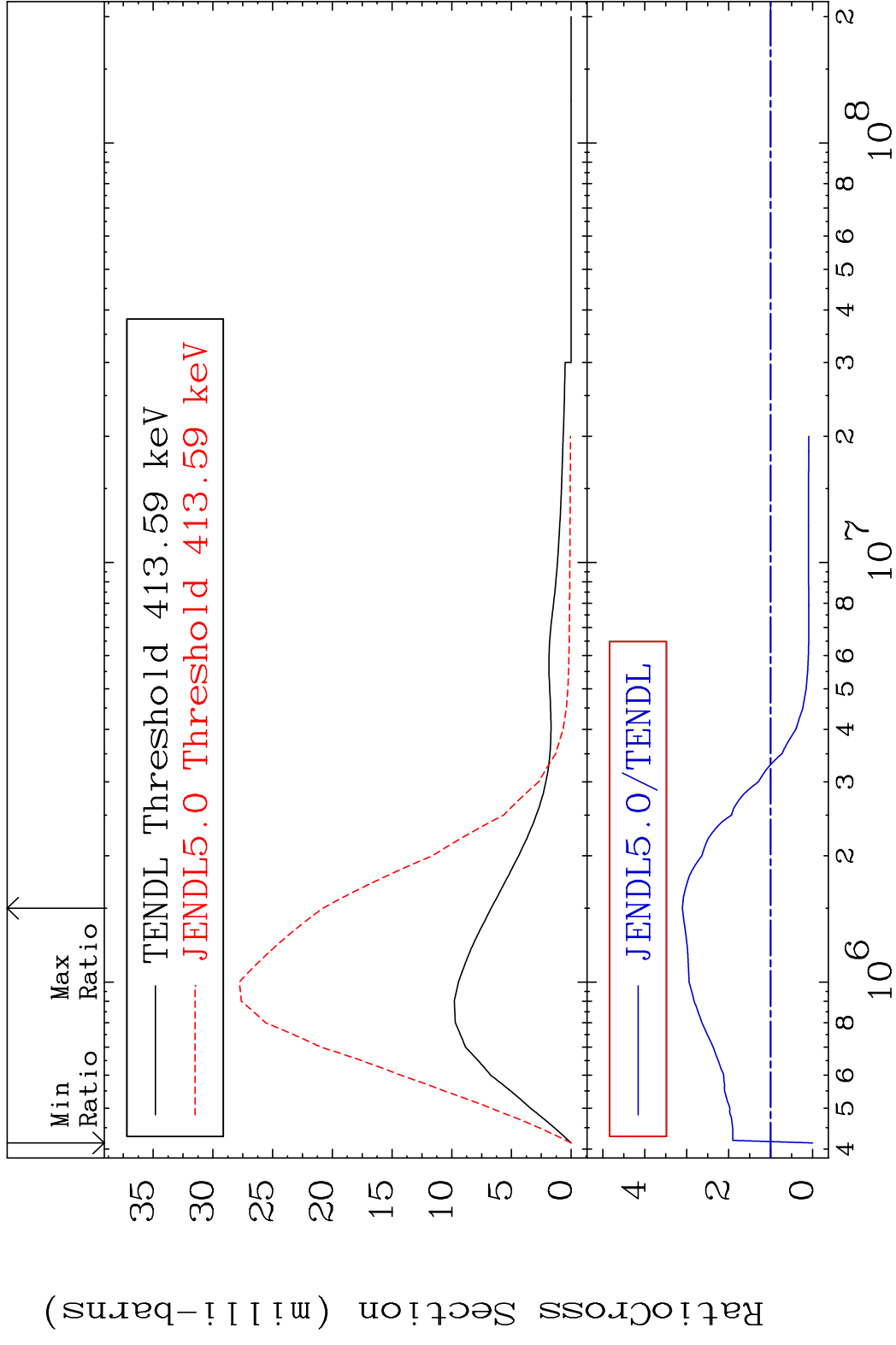
MAT 7331 MT= 69 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



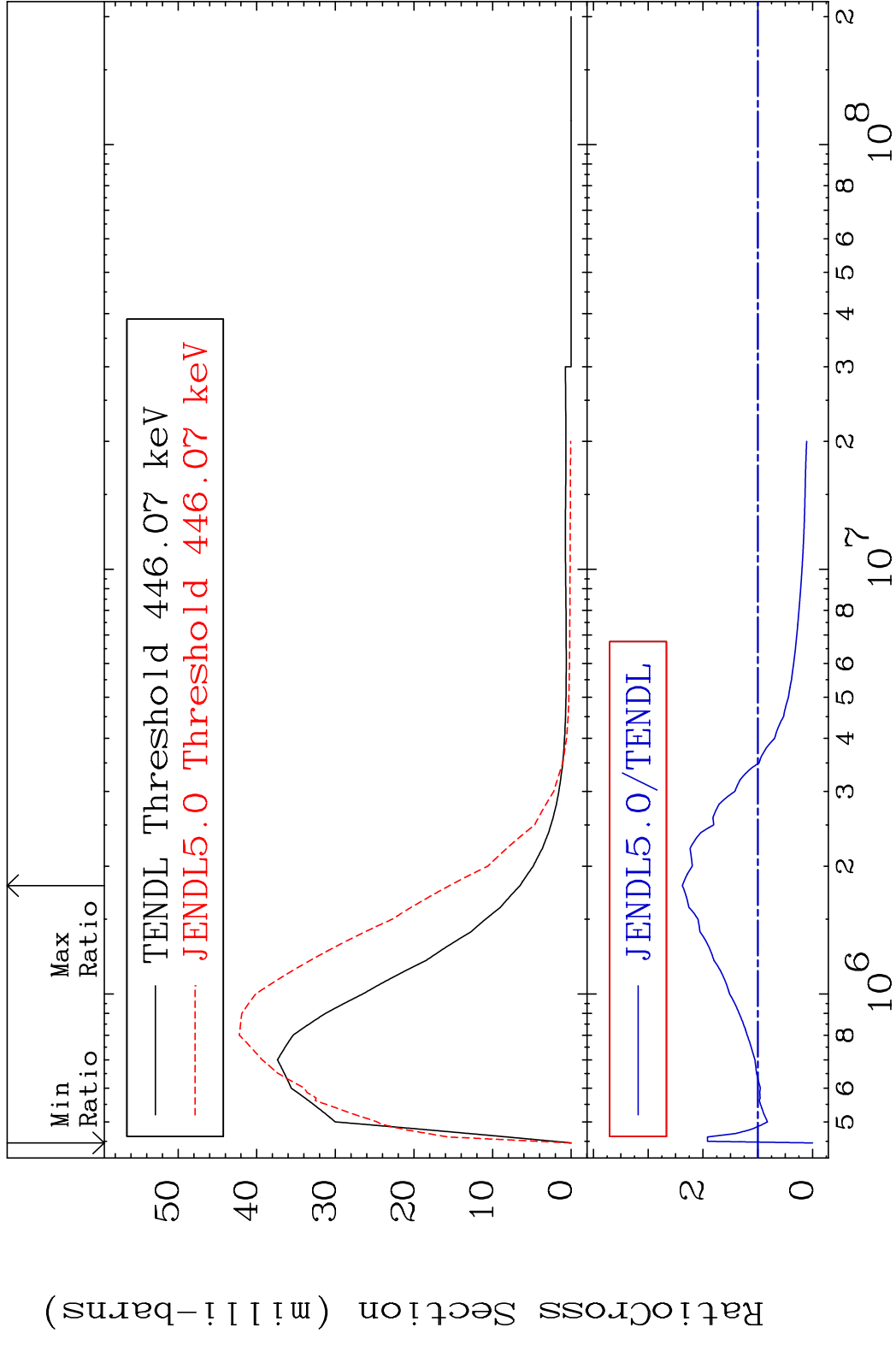
MAT 7331 MT= 70 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 590.1 %



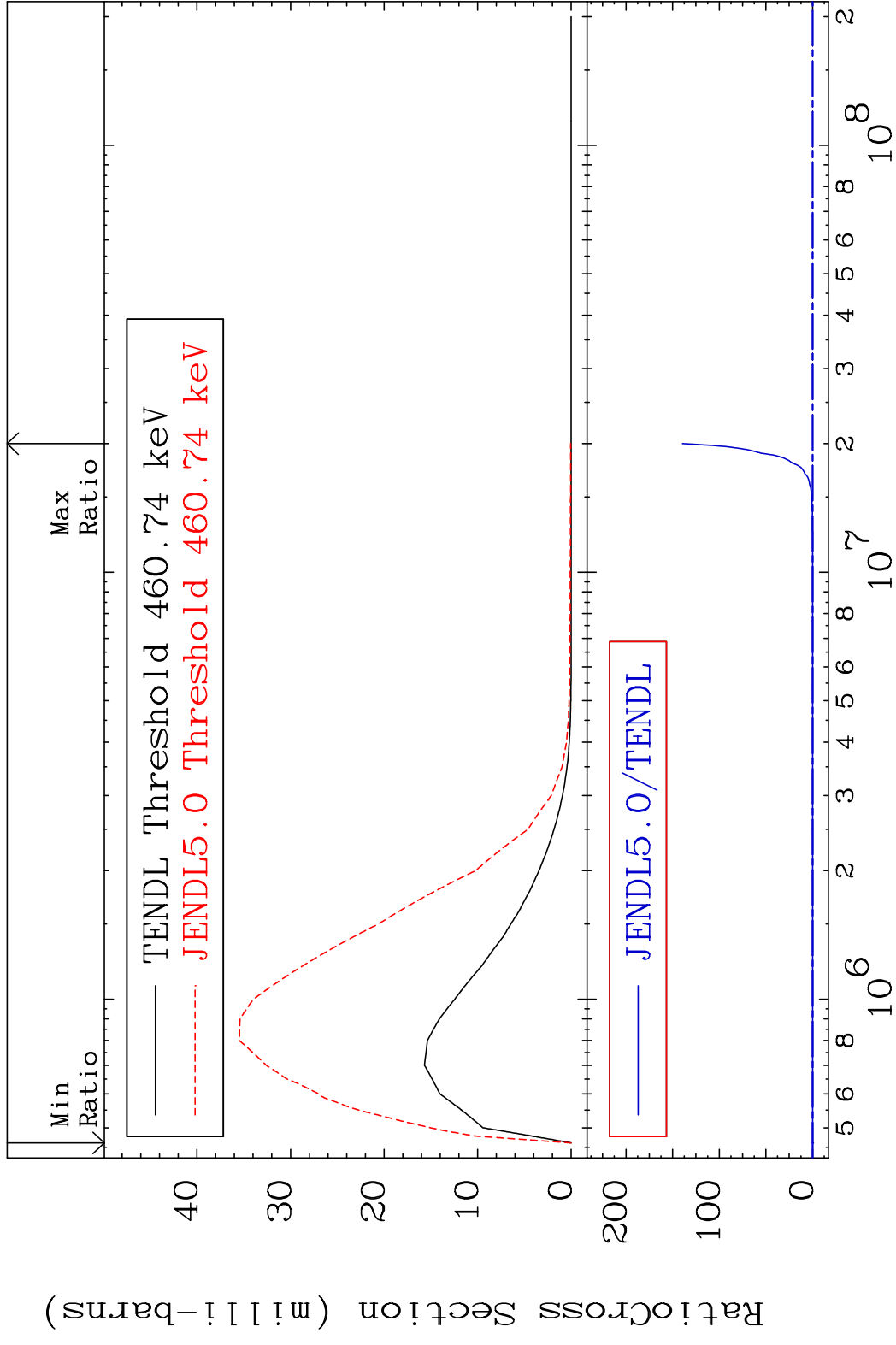
MAT 7331 MT= 71 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 210.3 %



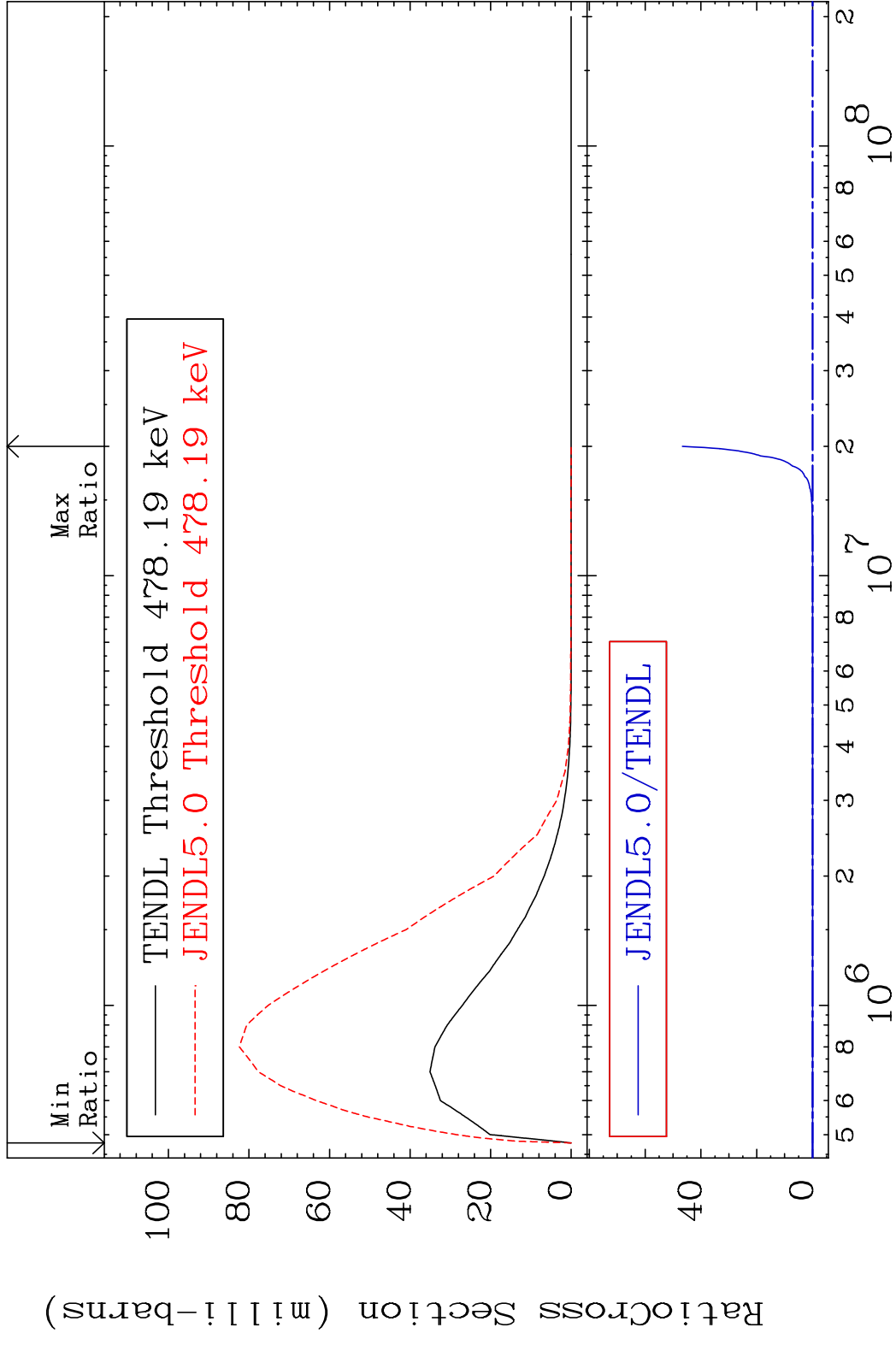
MAT 7331 MT= 72 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 137.7 %



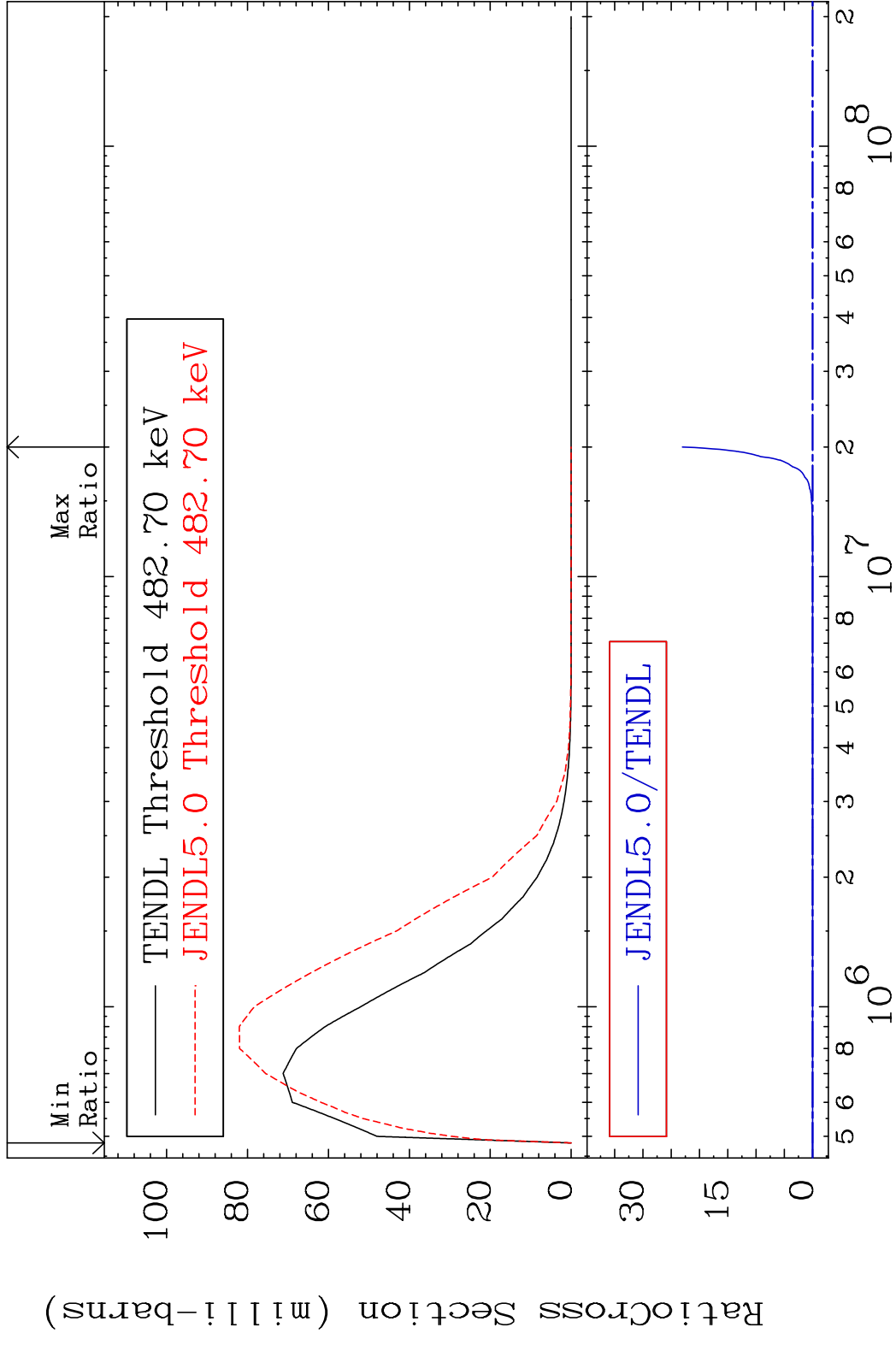
MAT 7331 MT= 73 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



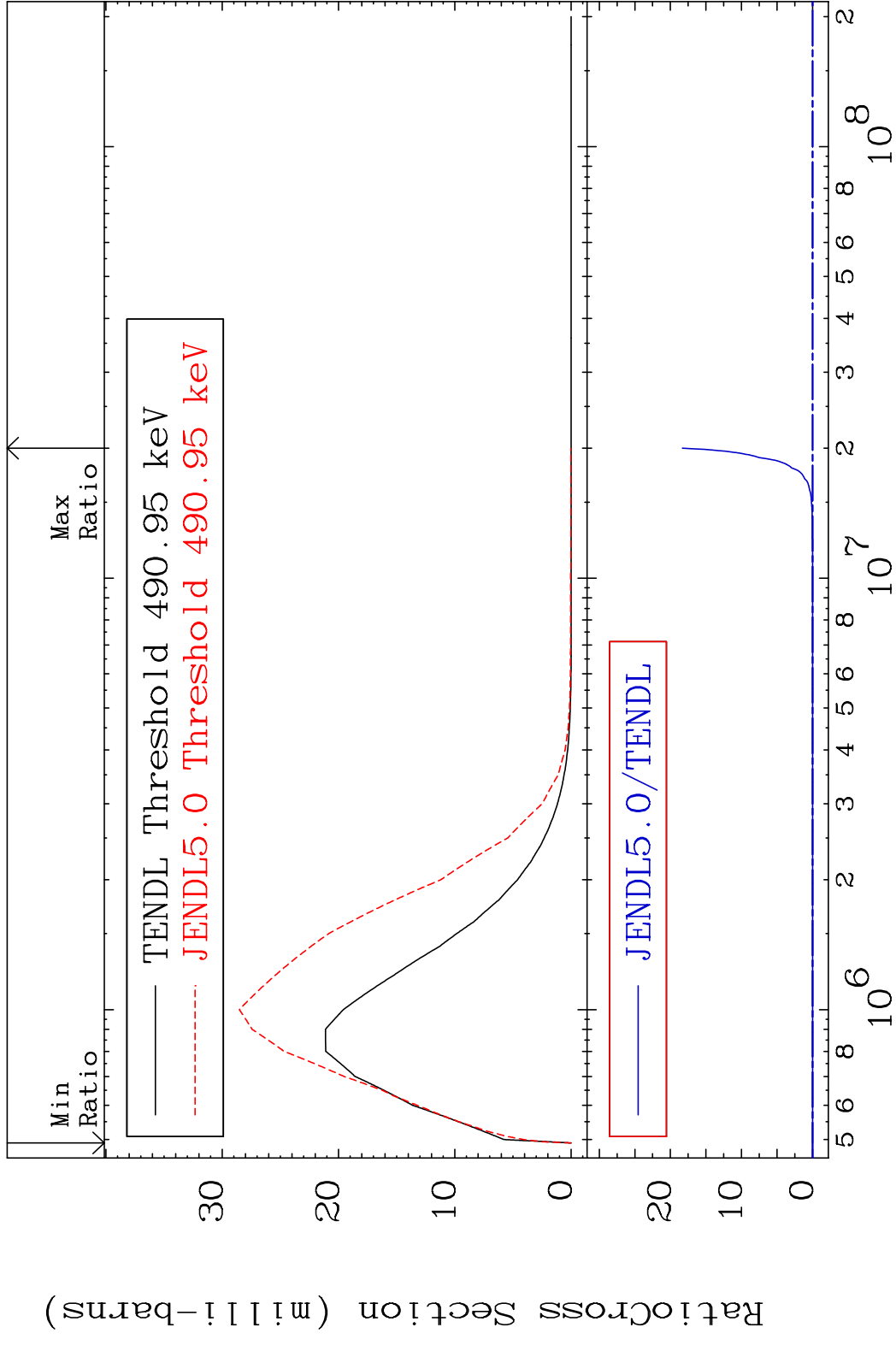
MAT 7331 MT= 74 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



MAT 7331 MT= 75 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %

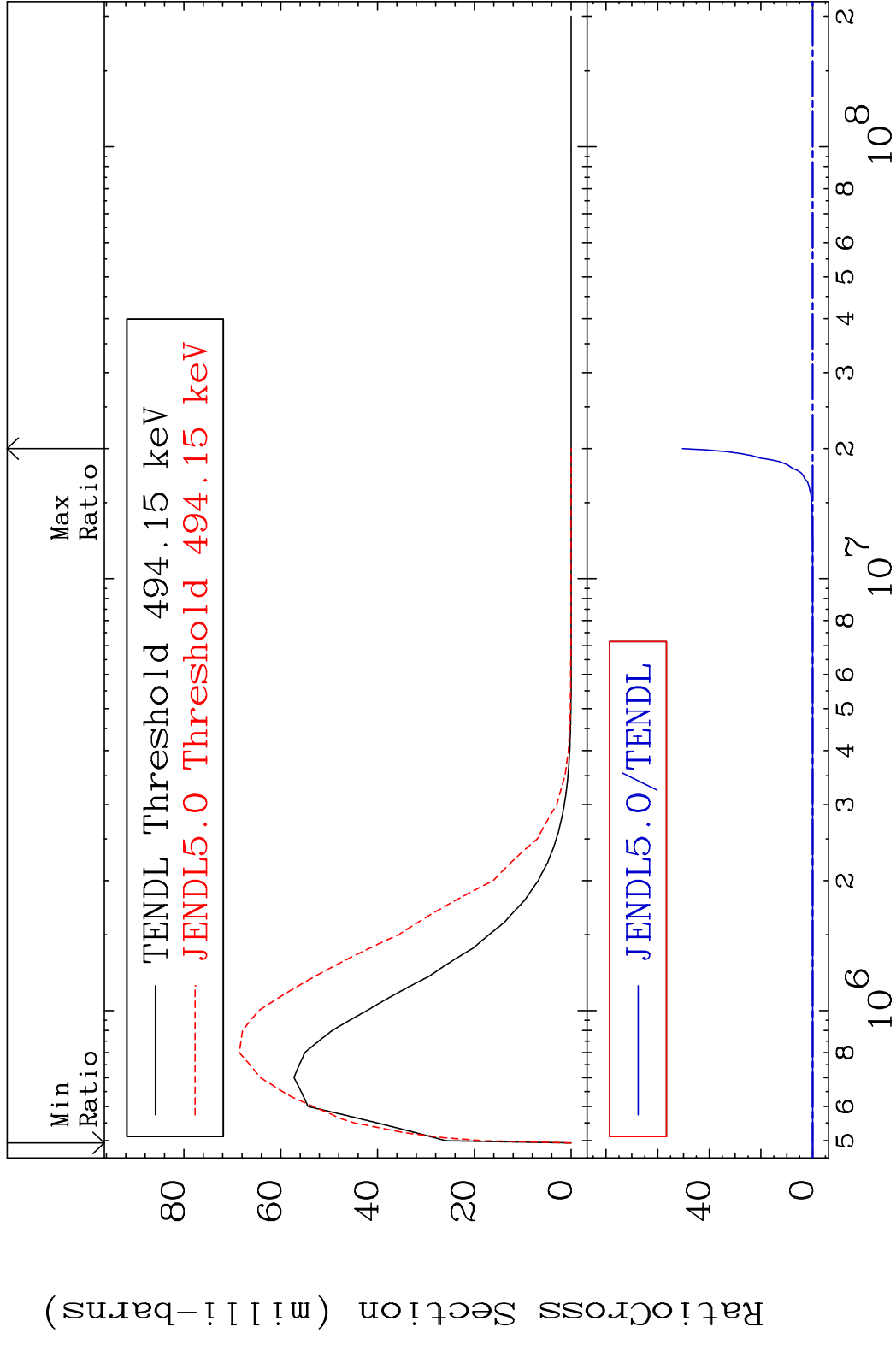


MAT 7331 MT= 76 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %

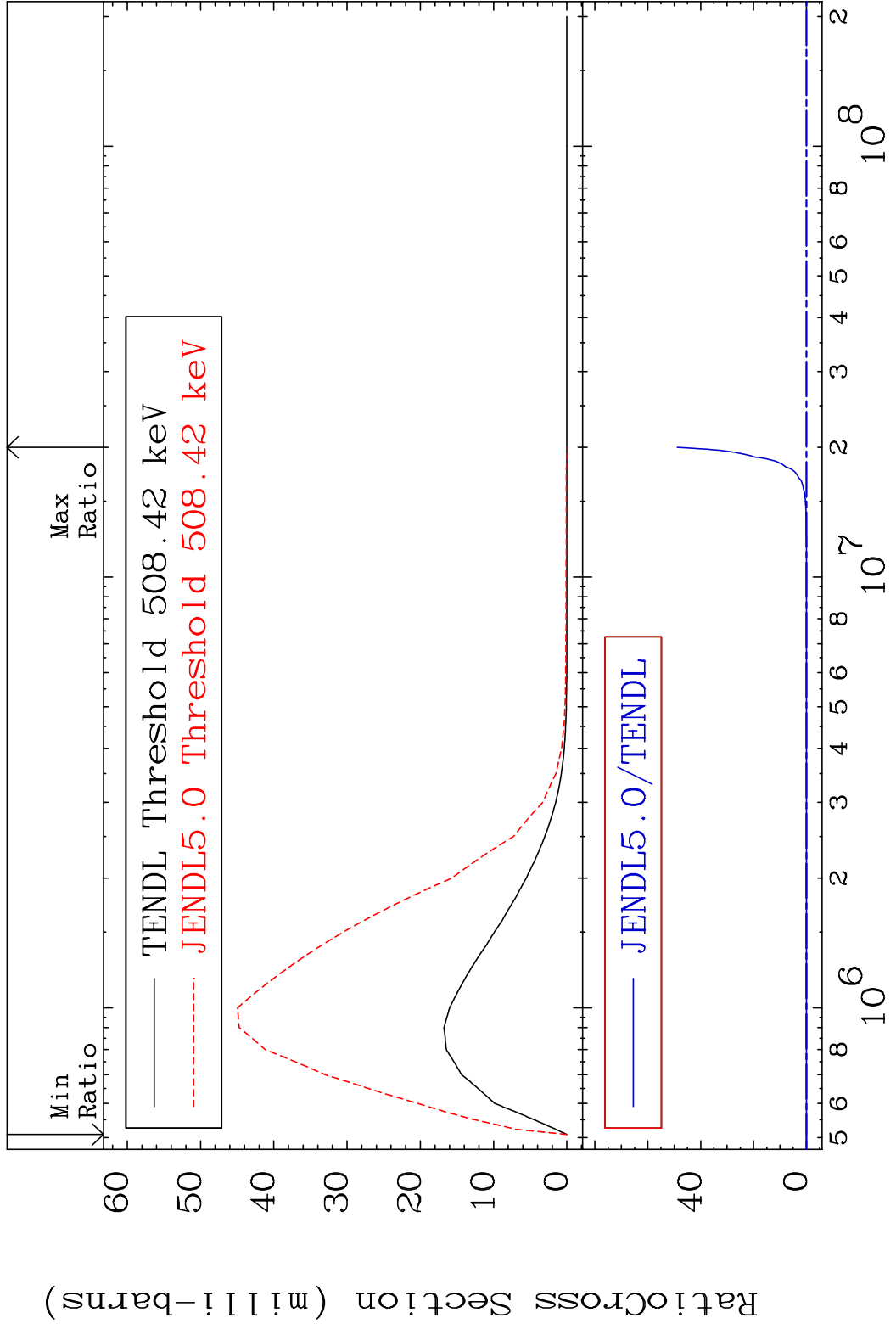


35 Incident Energy (eV) 73-Ta-182

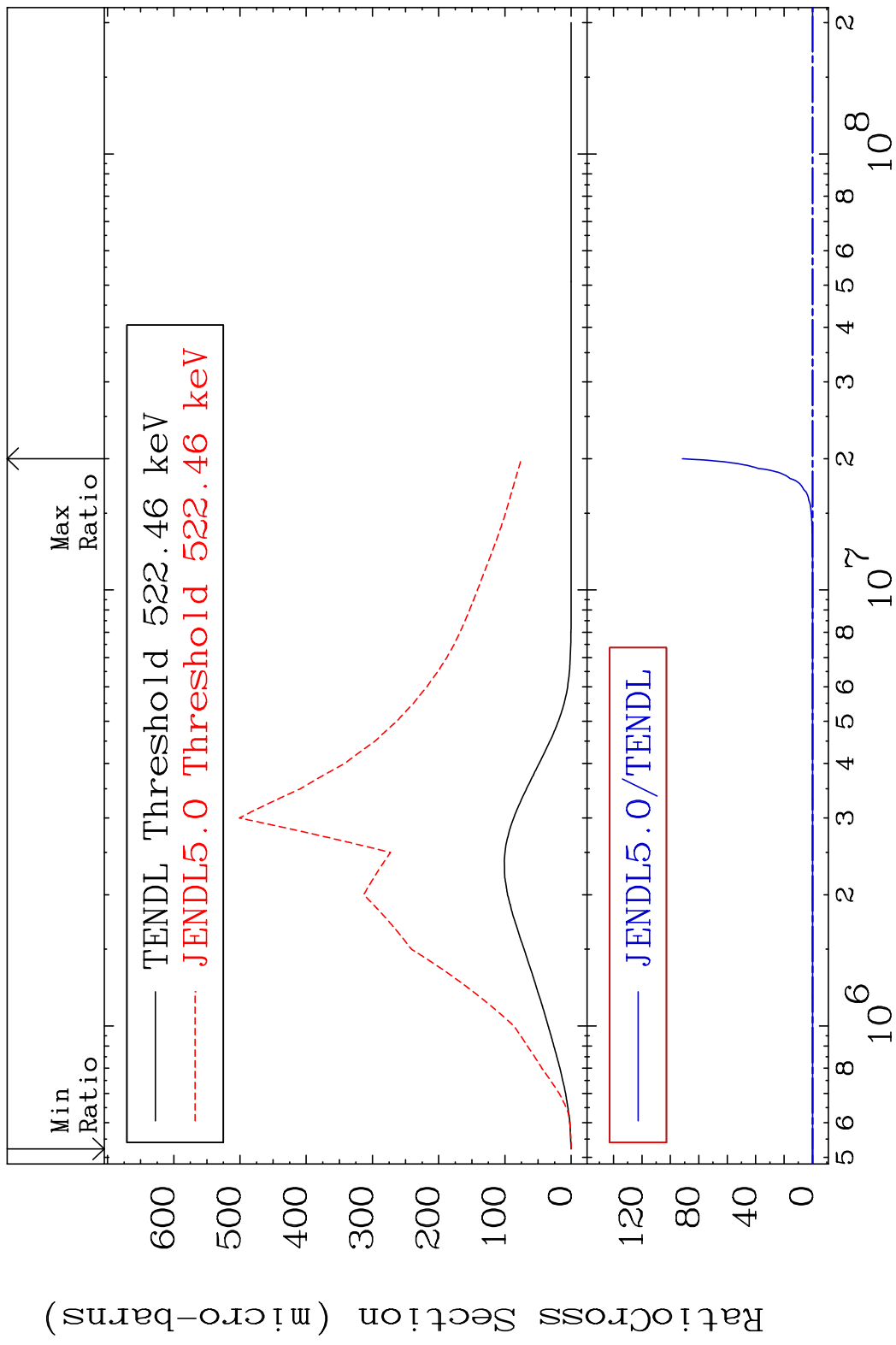
MAT 7331 MT= 77 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



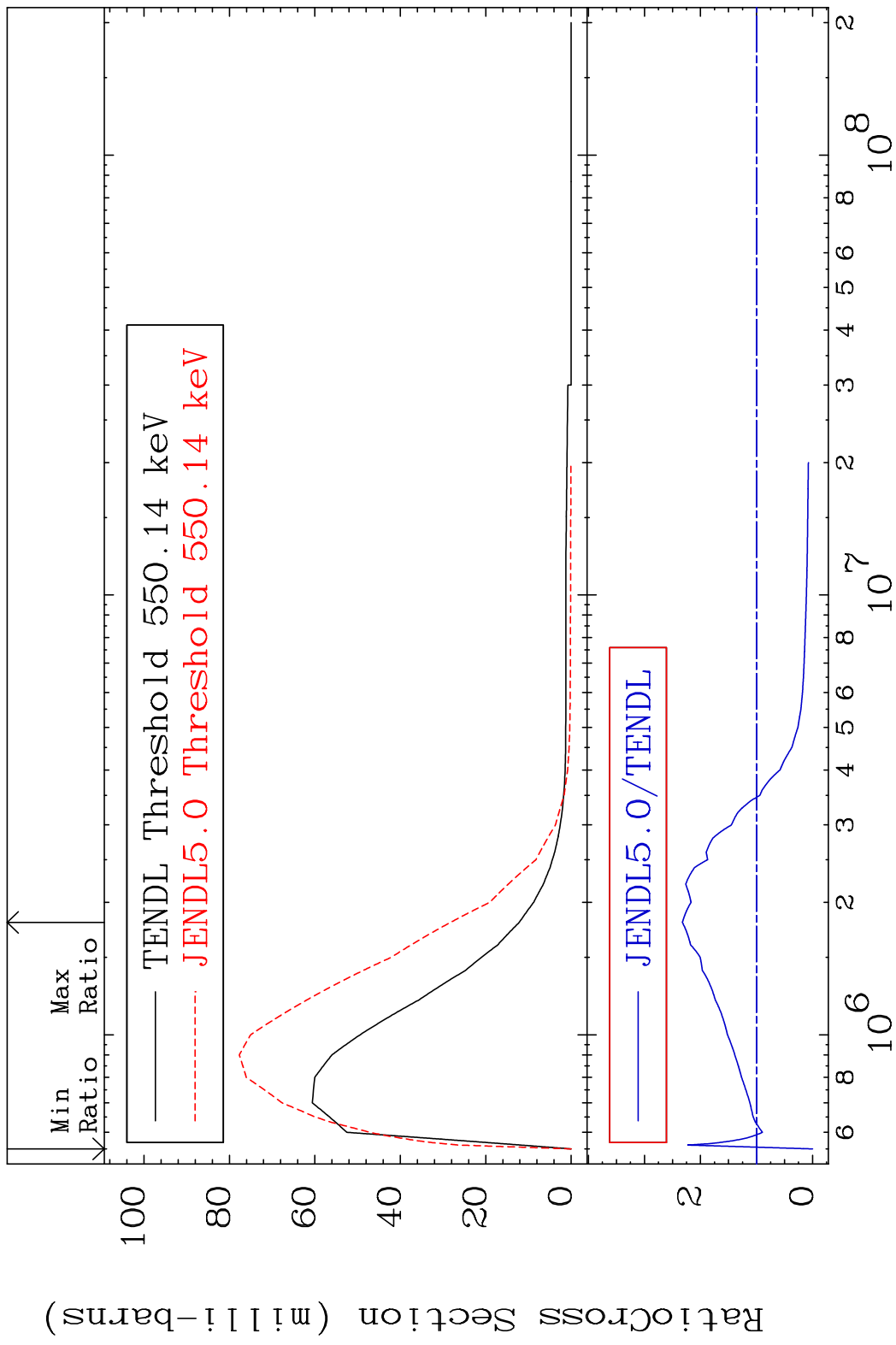
MAT 7331 MT= 78 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



MAT 7331 MT= 79 (n, n') Level 73-Ta-182
 Cross Section -100.0 To 9999. %



MAT 7331 MT= 80 (n,n') Level 73-Ta-182
 Cross Section -100.0 To 132.4 %

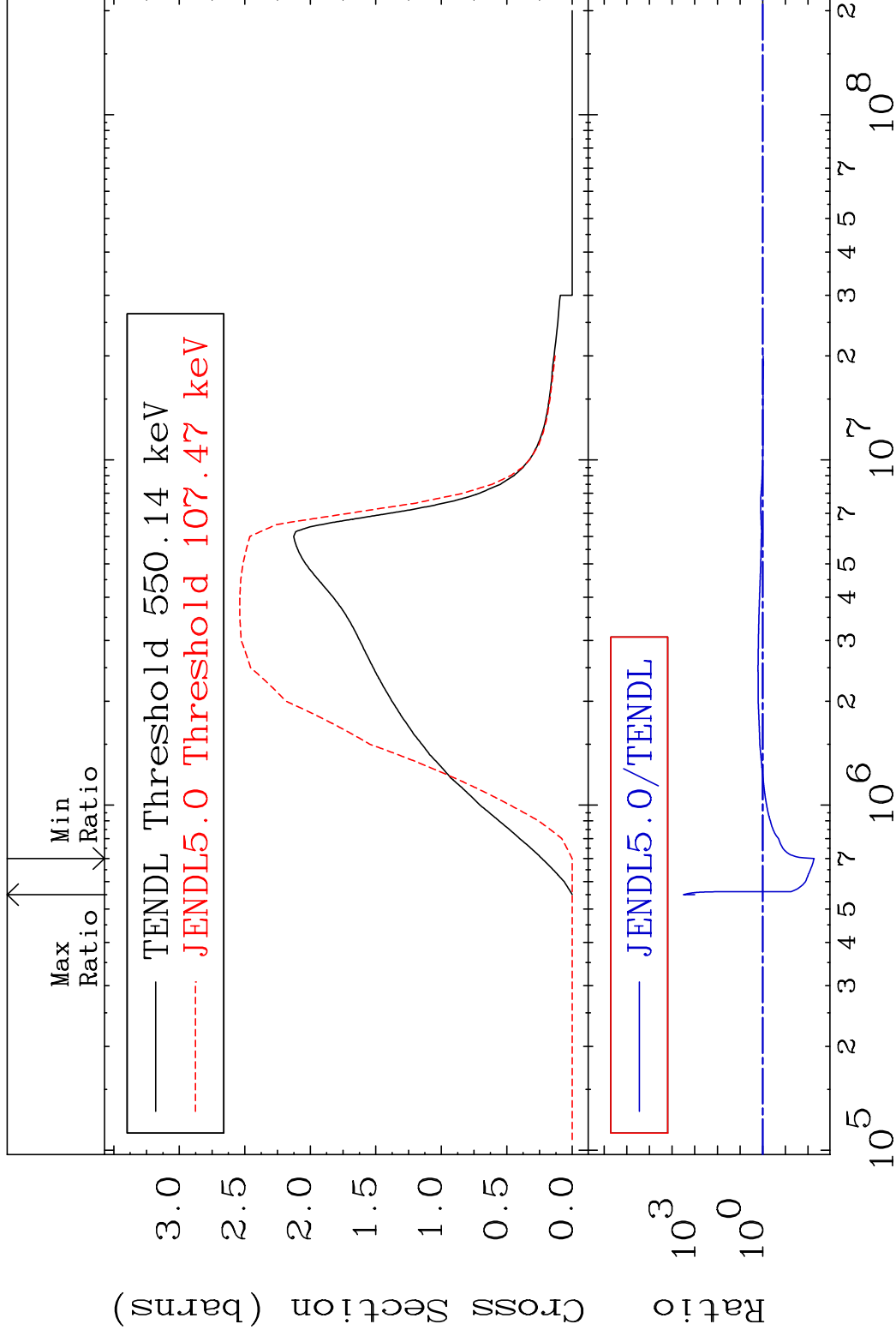


MAT 7331

(n, n') Continuum

73-Ta-182

Cross Section -99.46 To 9999. %



40

Incident Energy (eV)

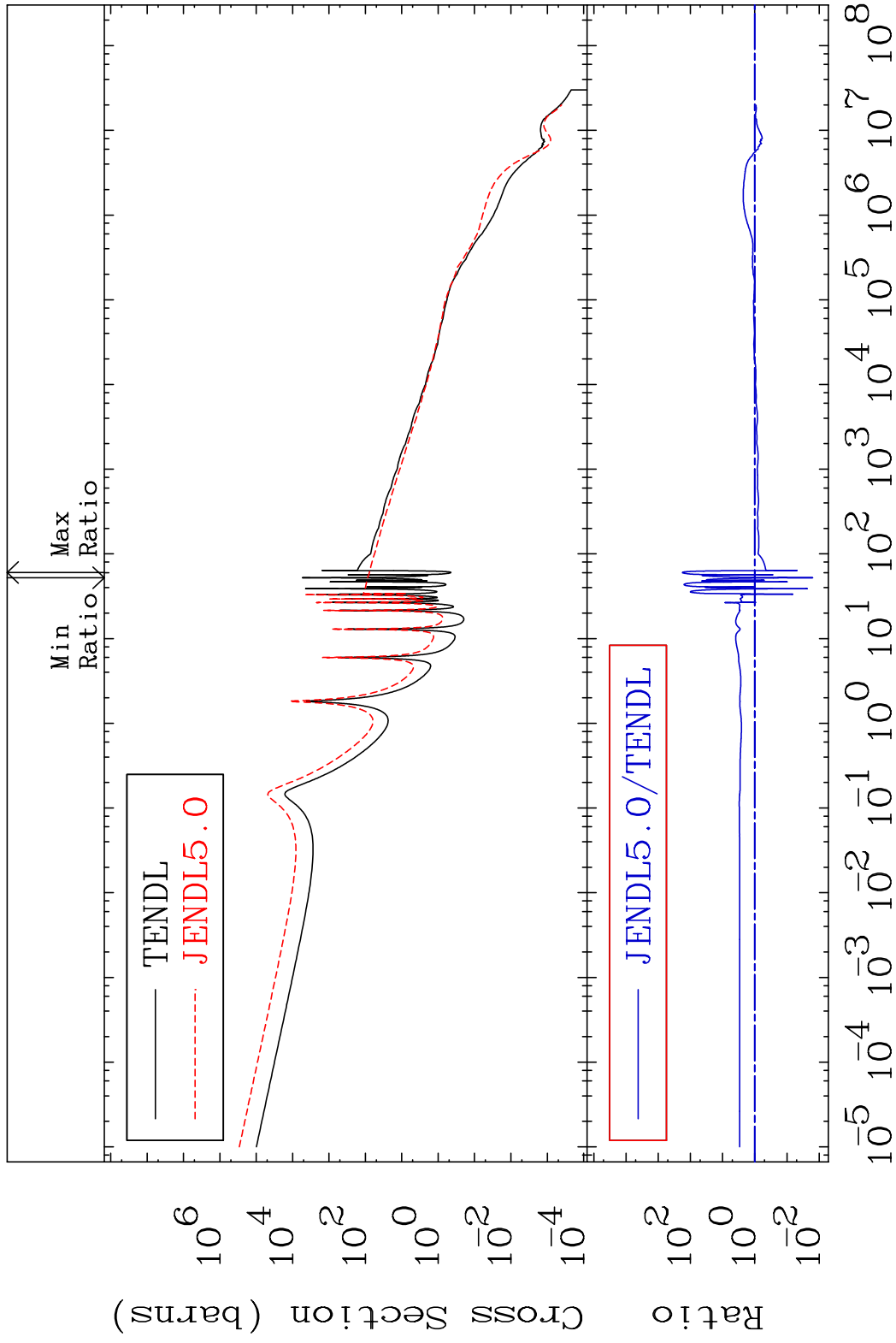
73-Ta-182

MAT 7331

(n, γ)

73-Ta-182

Cross Section -98.40 To 9999. %



41

Incident Energy (eV)

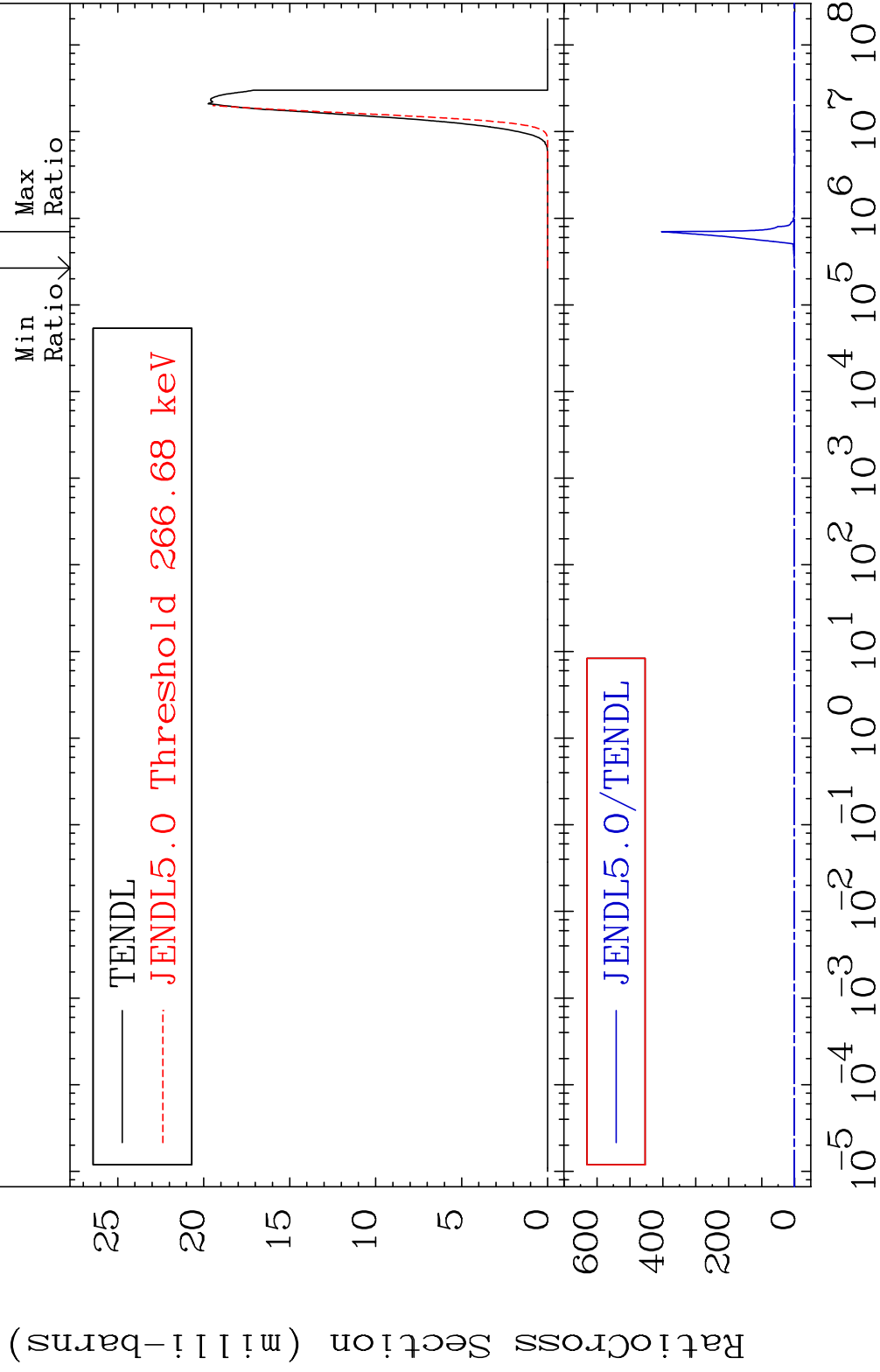
73-Ta-182

MAT 7331

(n, p)

73-Ta-182

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

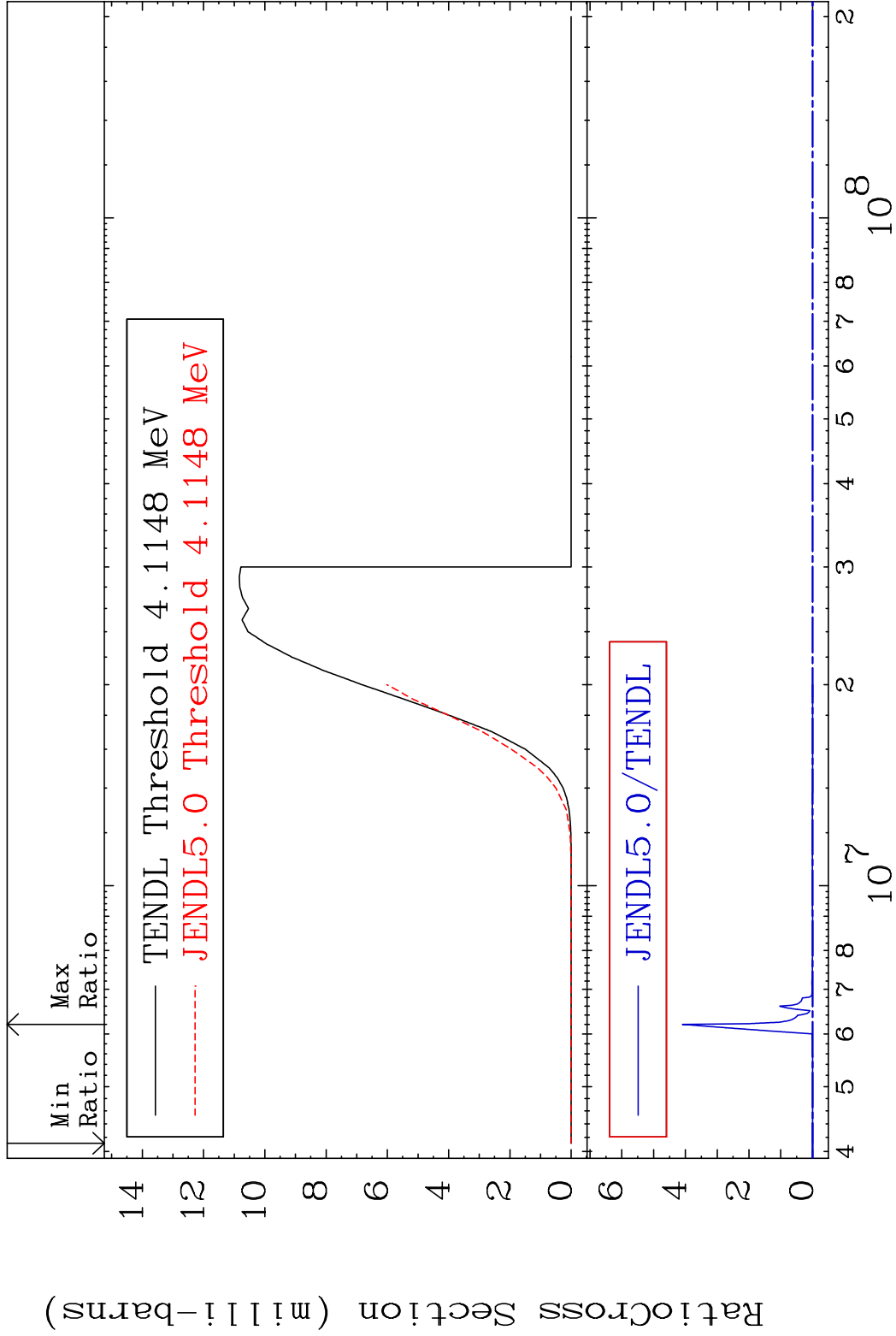
73-Ta-182

MAT 7331

(n,d)

73-Ta-182

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

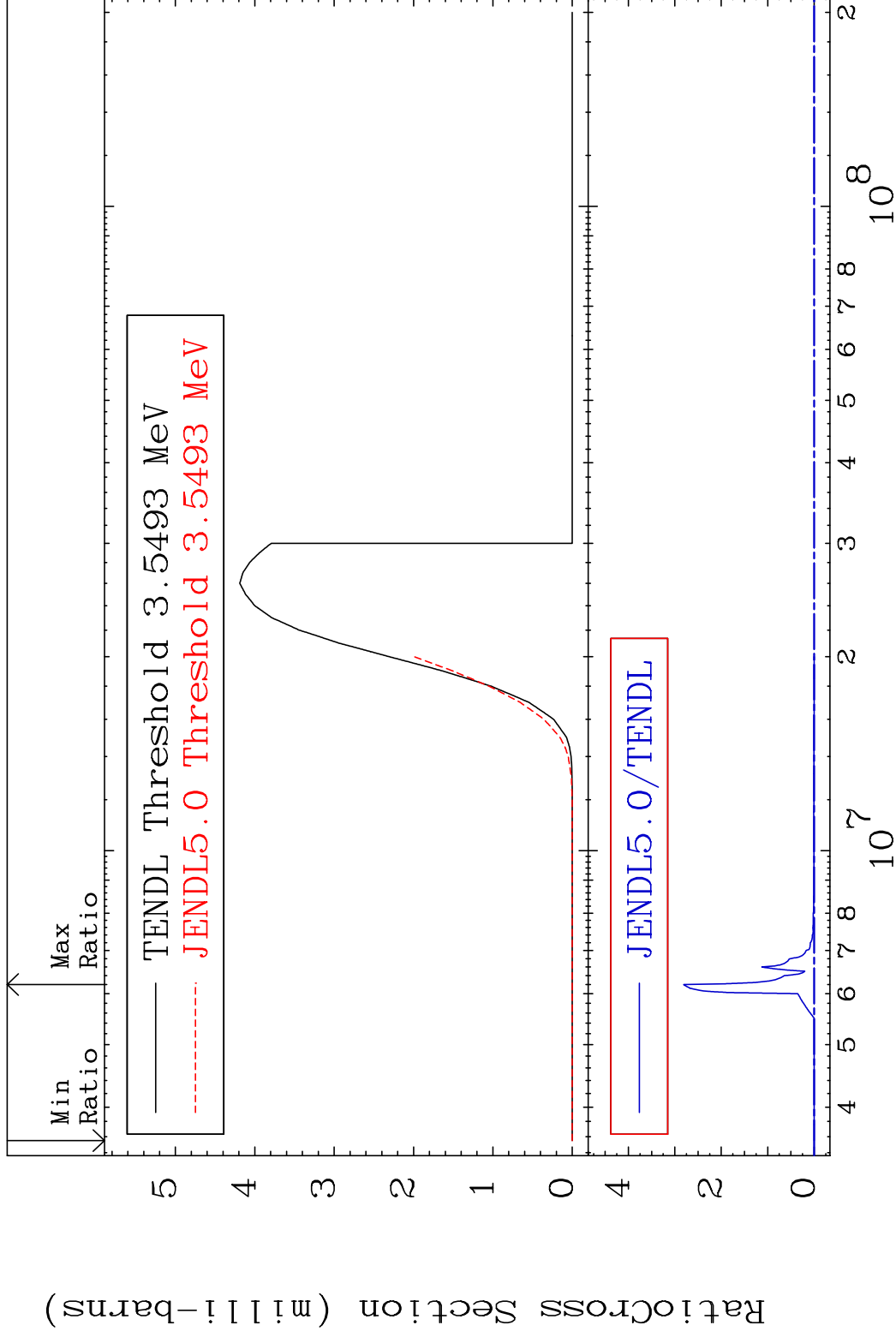
73-Ta-182

MAT 7331

(n, t)

73-Ta-182

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

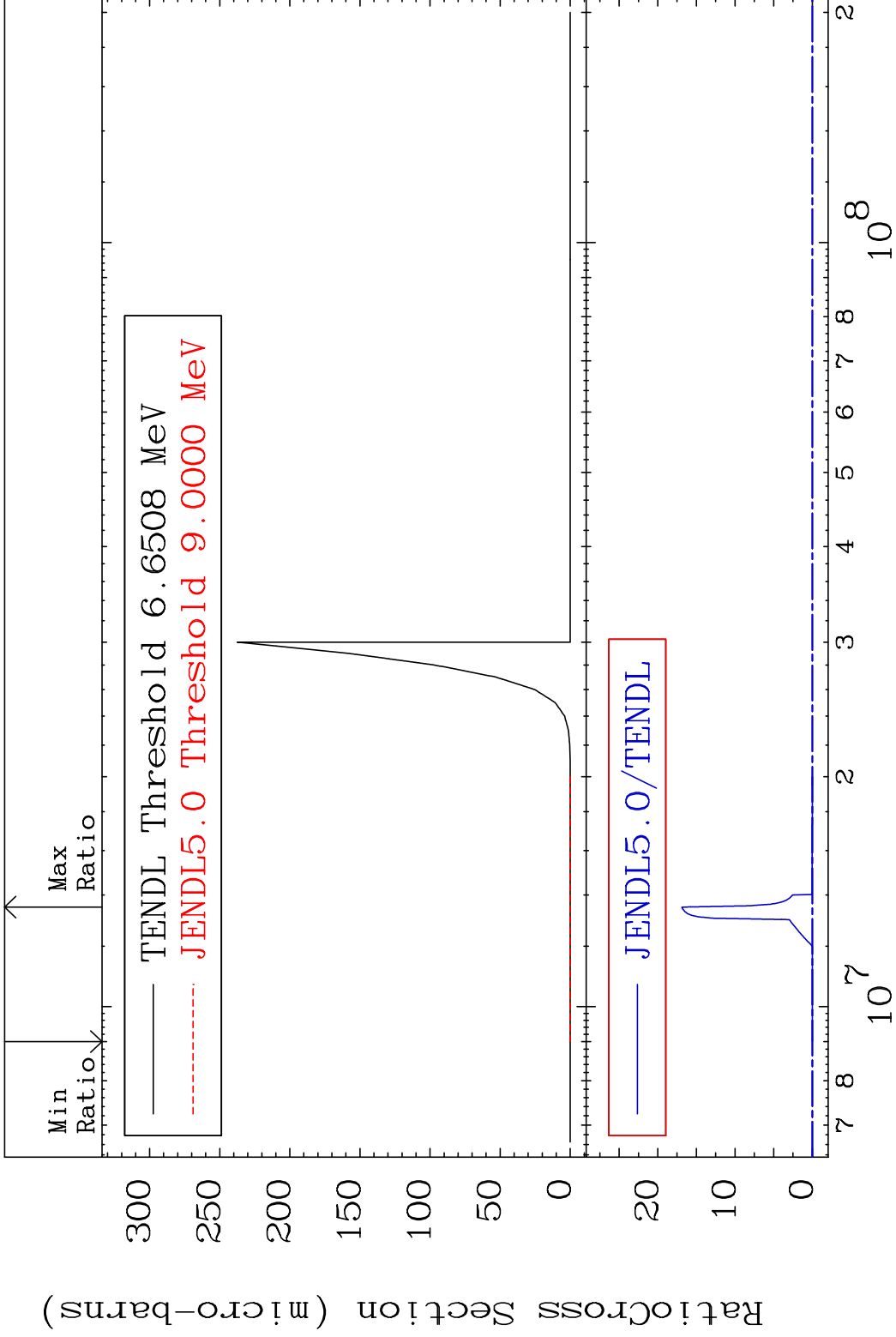
73-Ta-182

MAT 7331

(n, He-3)

73-Ta-182

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

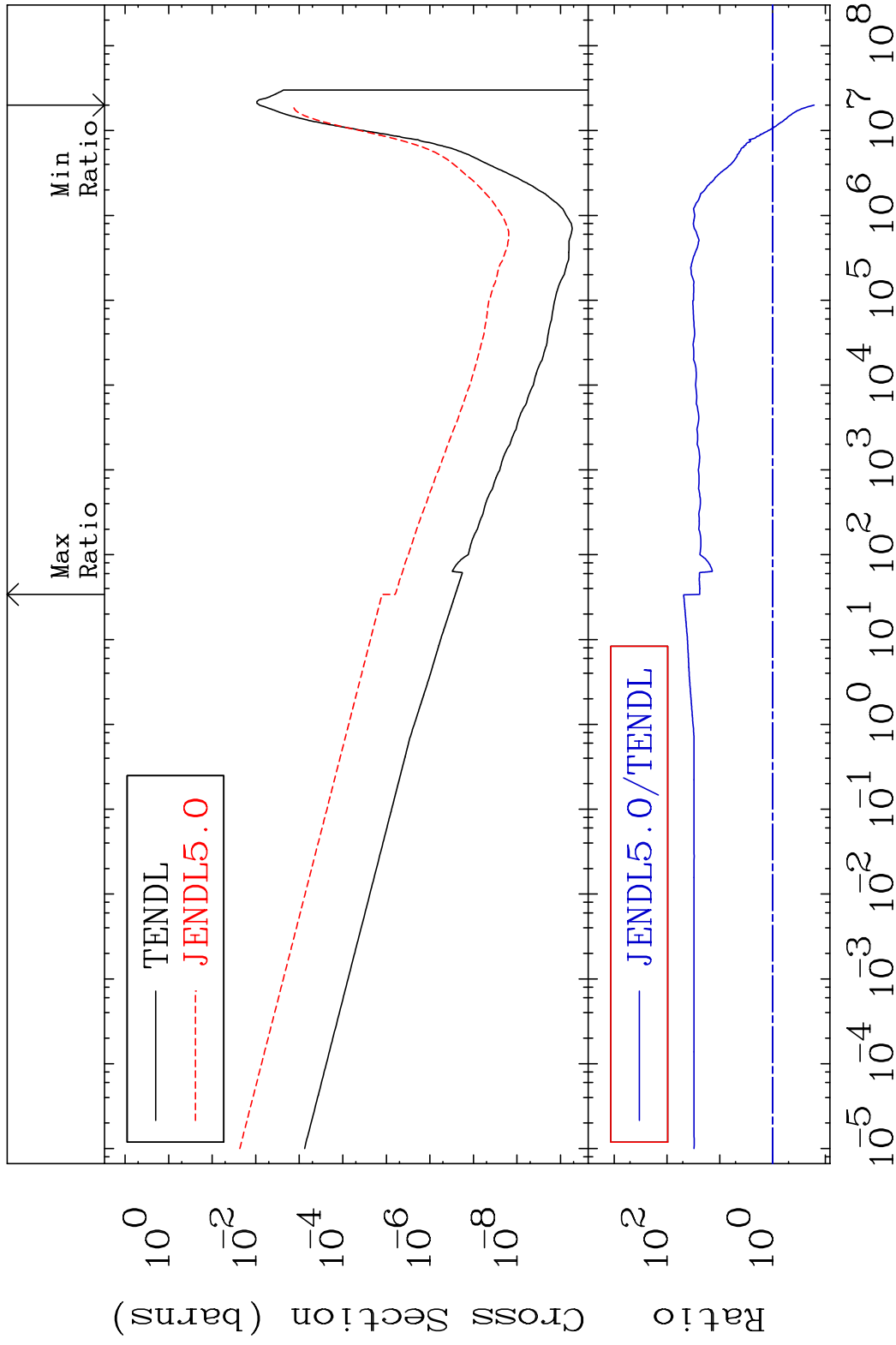
73-Ta-182

MAT 7331

(n, α)

73-Ta-182

Cross Section -83.65 To 4724. %



46

Incident Energy (eV)

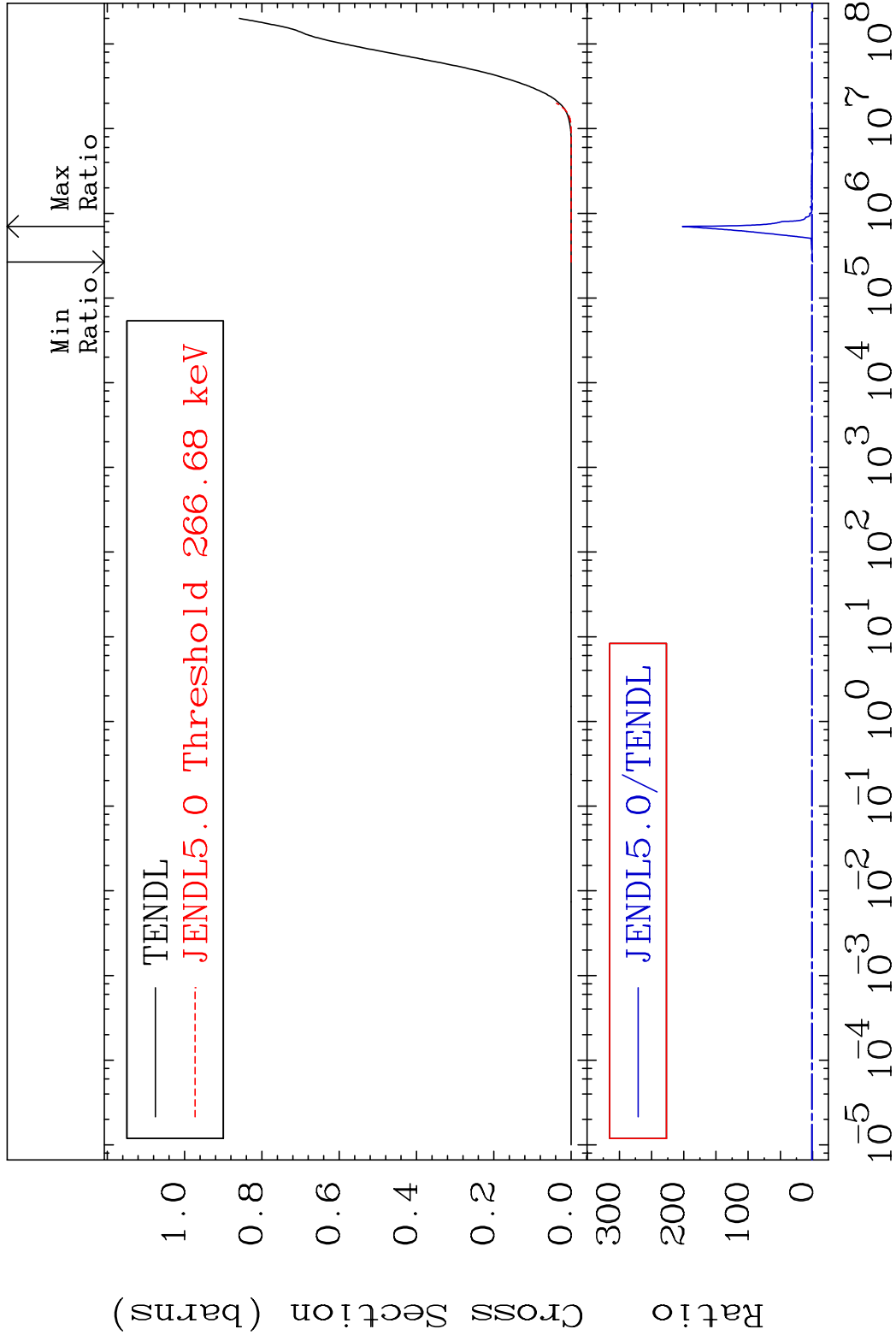
73-Ta-182

MAT 7331

Hydrogen Production

73-Ta-182

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

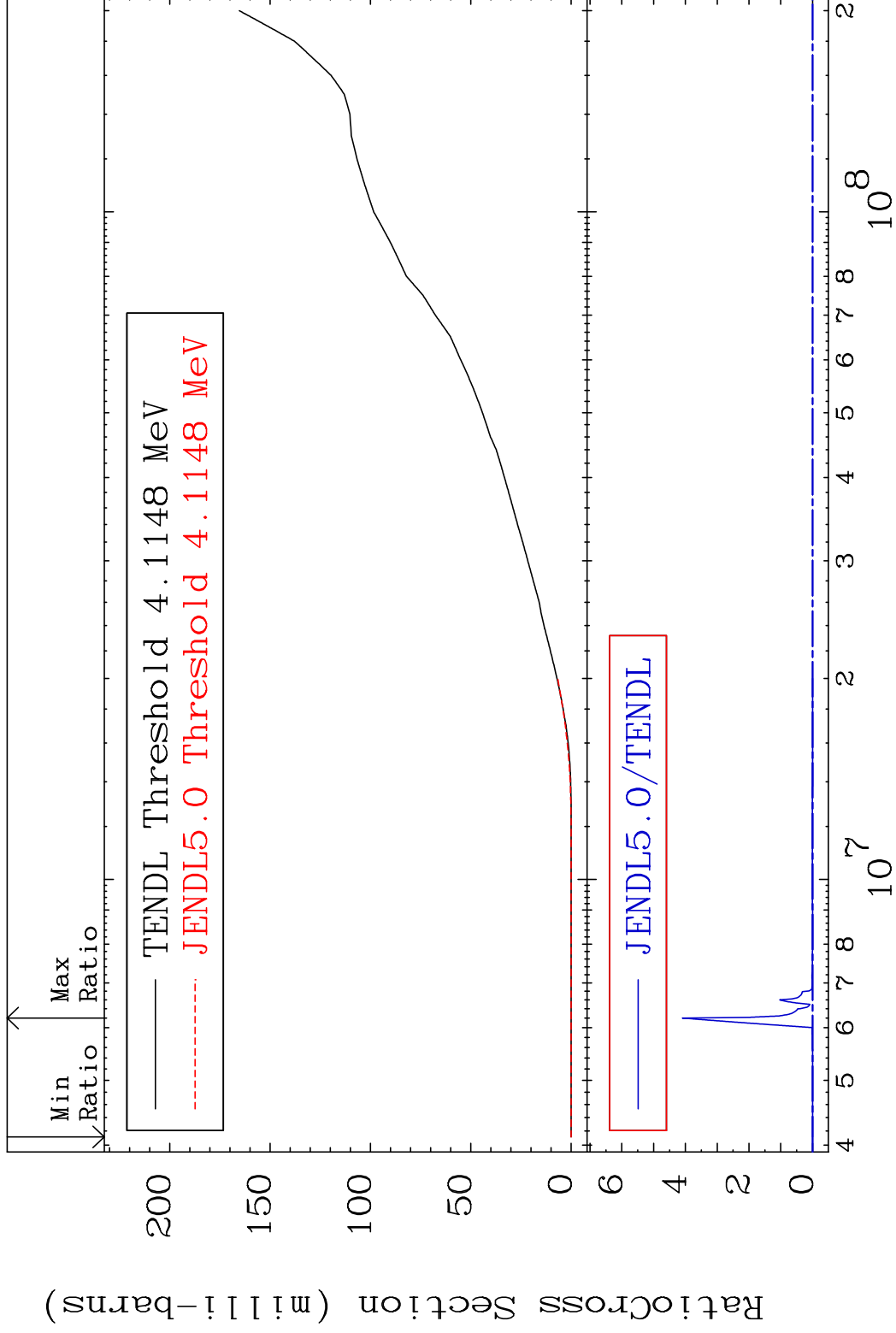
73-Ta-182

MAT 7331

Deuterium Production

73-Ta-182

Cross Section -100.0 To 9999. %

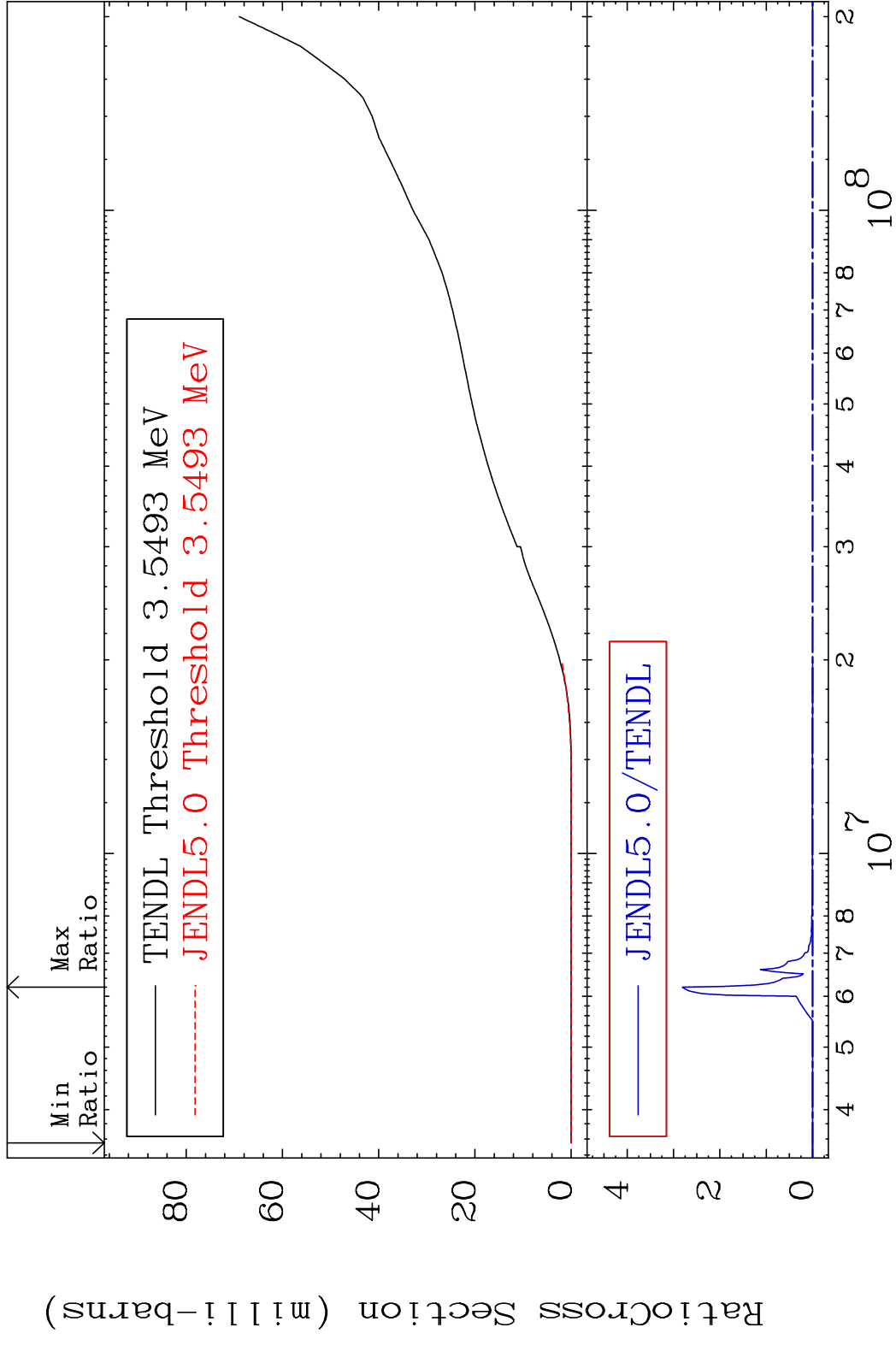


48

Incident Energy (eV)

73-Ta-182

MAT 7331 Tritium Production 73-Ta-182
 Cross Section -100.0 To 9999. %



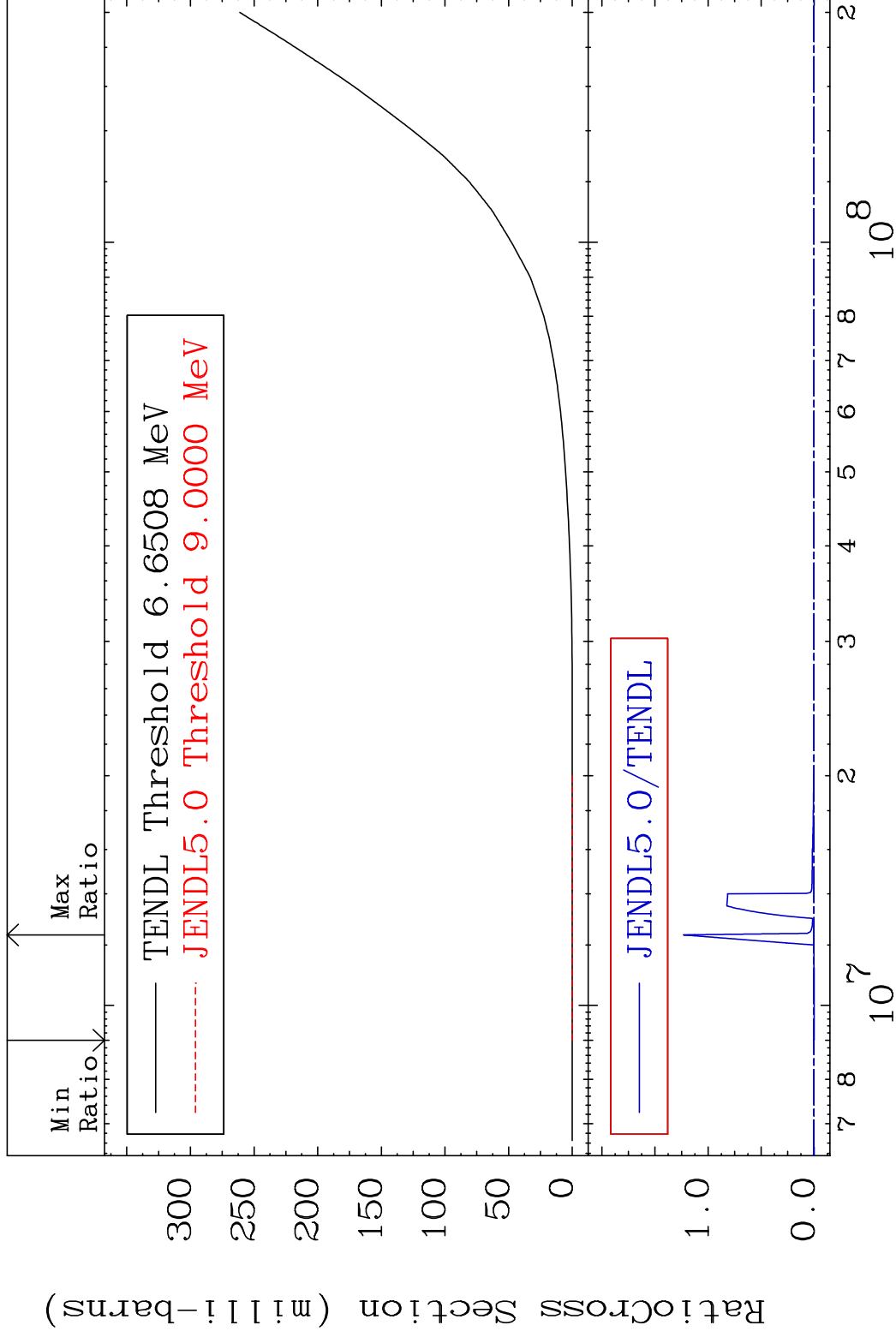
49 Incident Energy (eV) 73-Ta-182

MAT 7331

He-3 Production

73-Ta-182

Cross Section -100.0 To 9999. %



50

Incident Energy (eV)

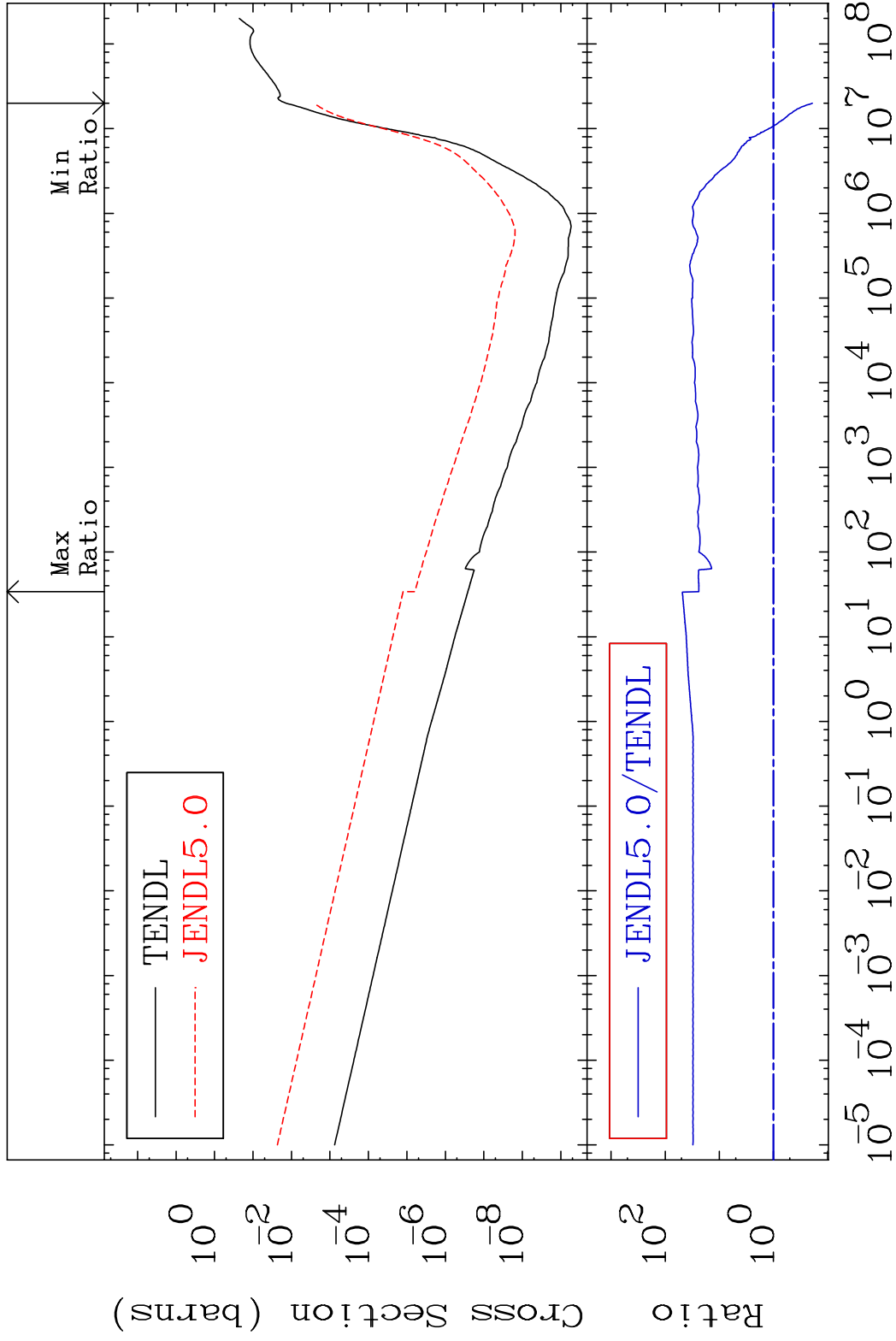
73-Ta-182

MAT 7331

He-4 Production

73-Ta-182

Cross Section -81.02 To 4724. %

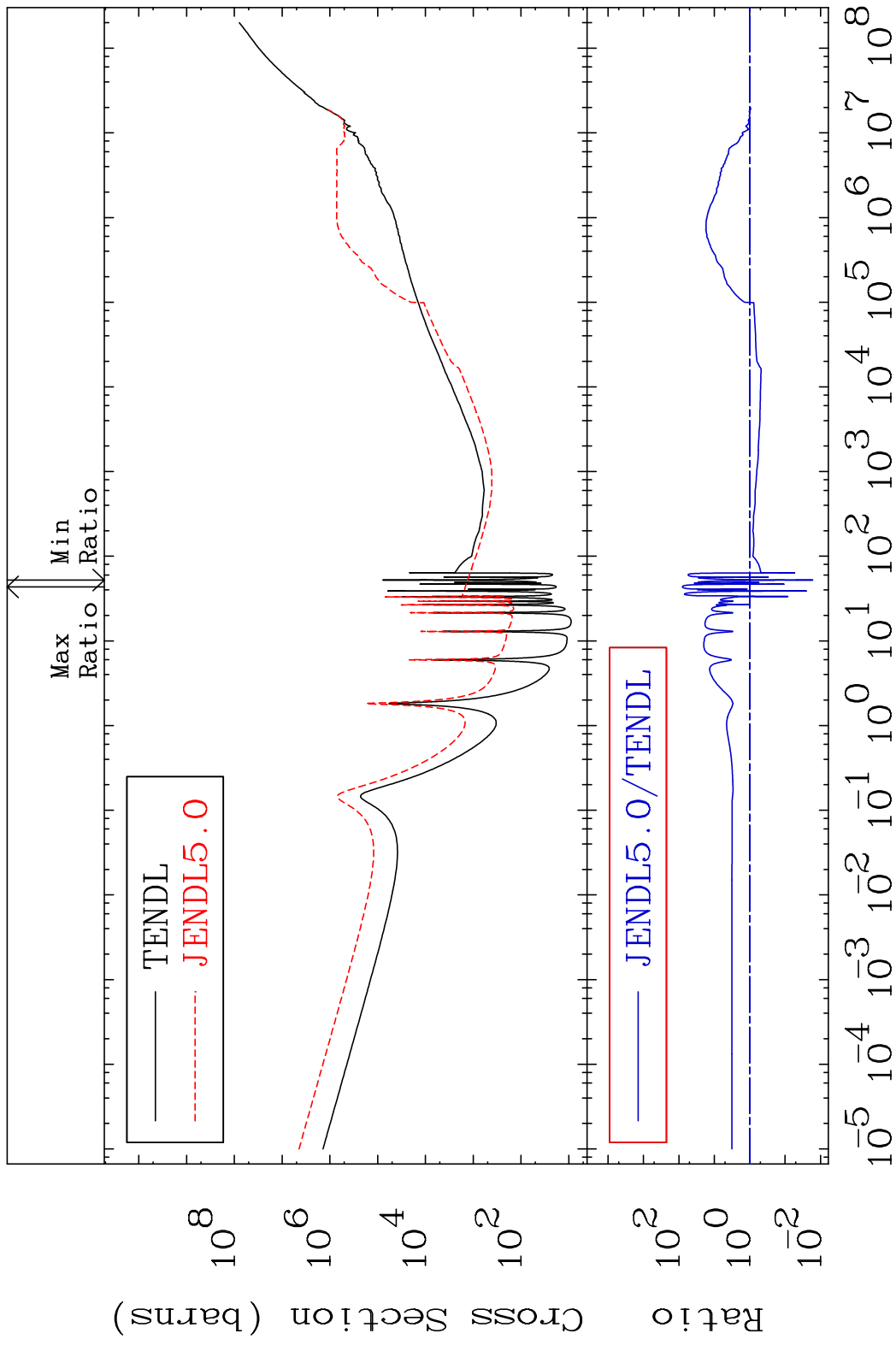


51

Incident Energy (eV)

73-Ta-182

MAT 7331 Kerma total (eV-barns) 73-Ta-182
 Cross Section -98.33 To 7877. %

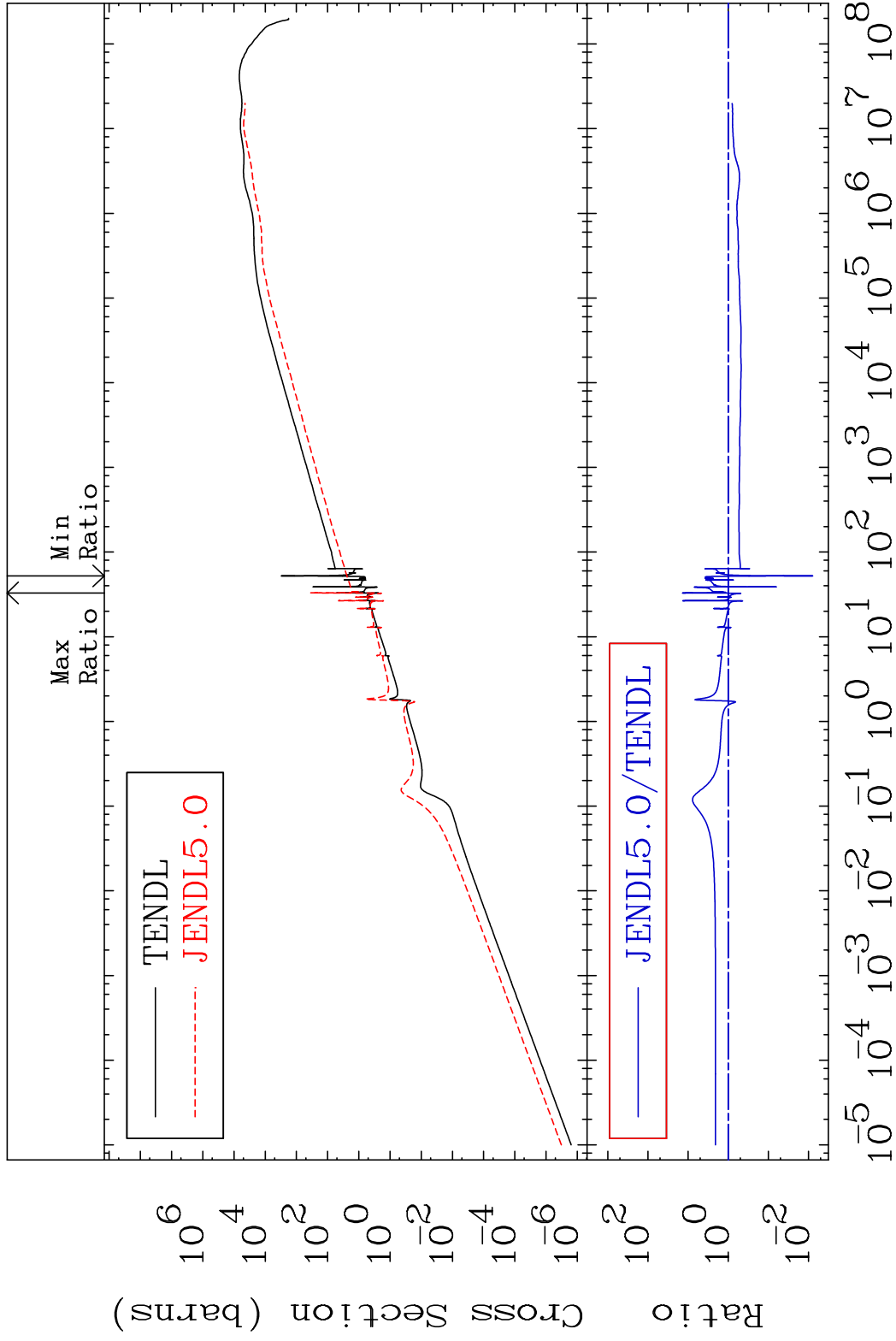


MAT 7331

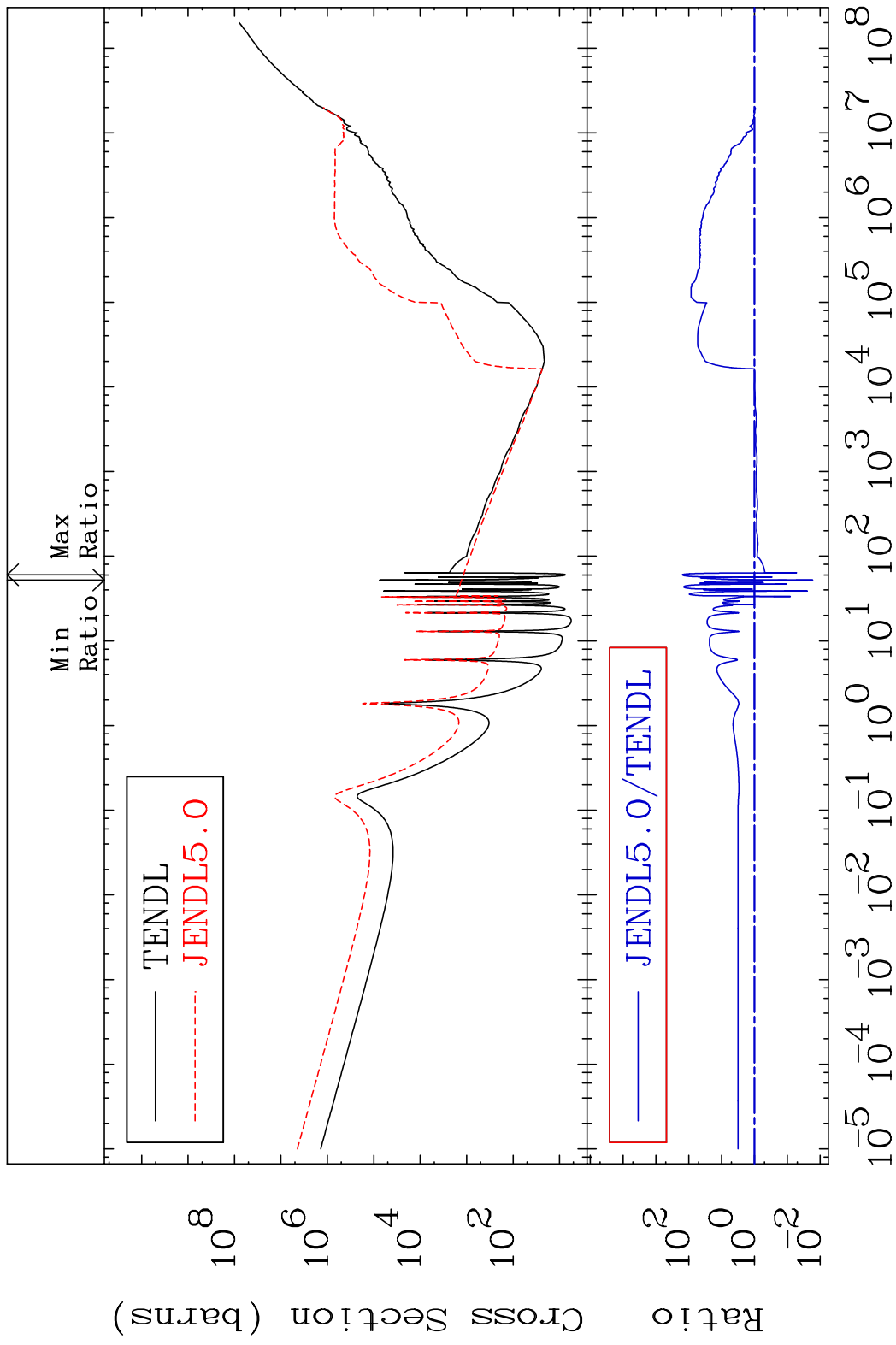
Kerma elastic

73-Ta-182

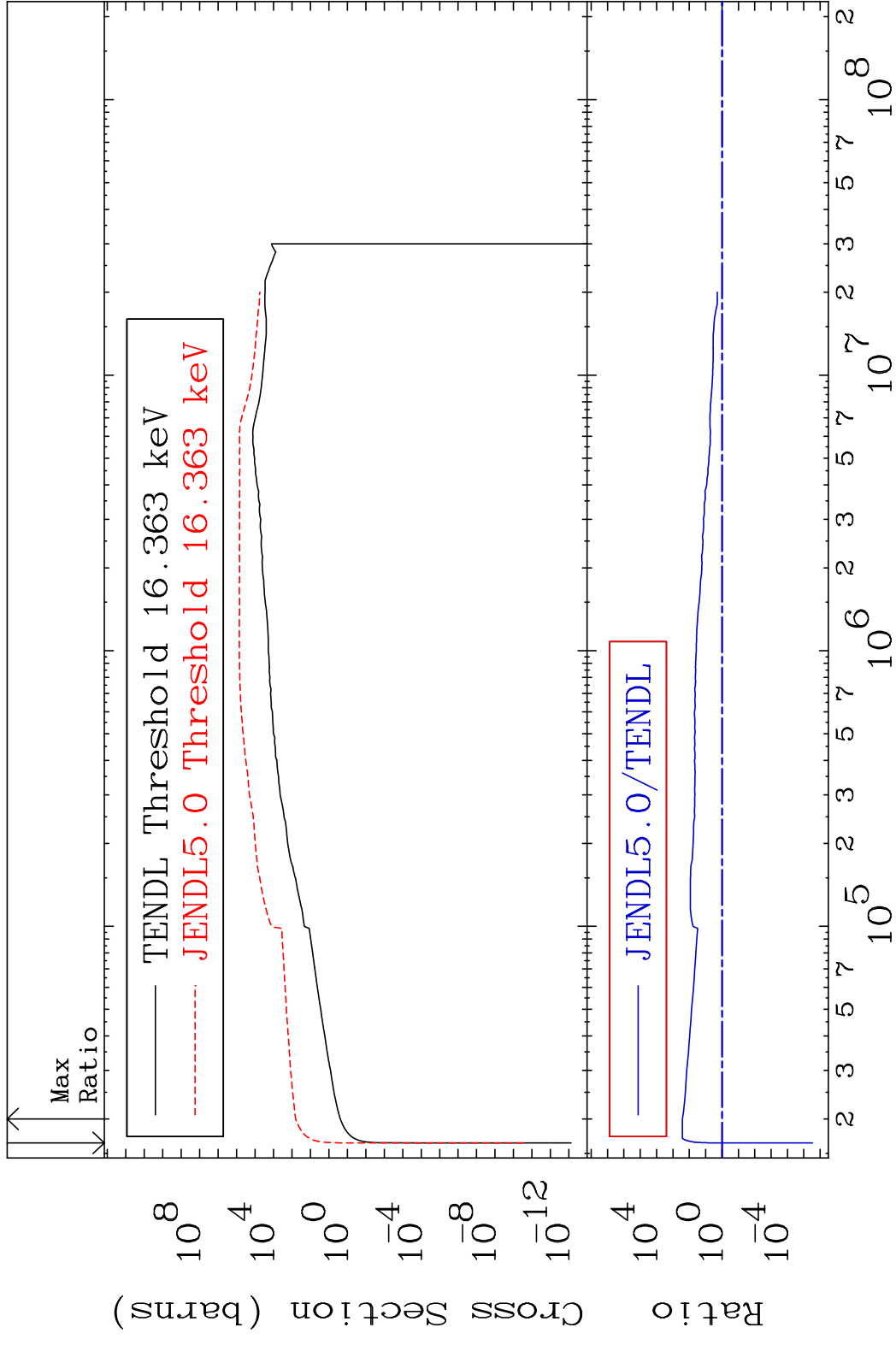
Cross Section -99.21 To 1289. %



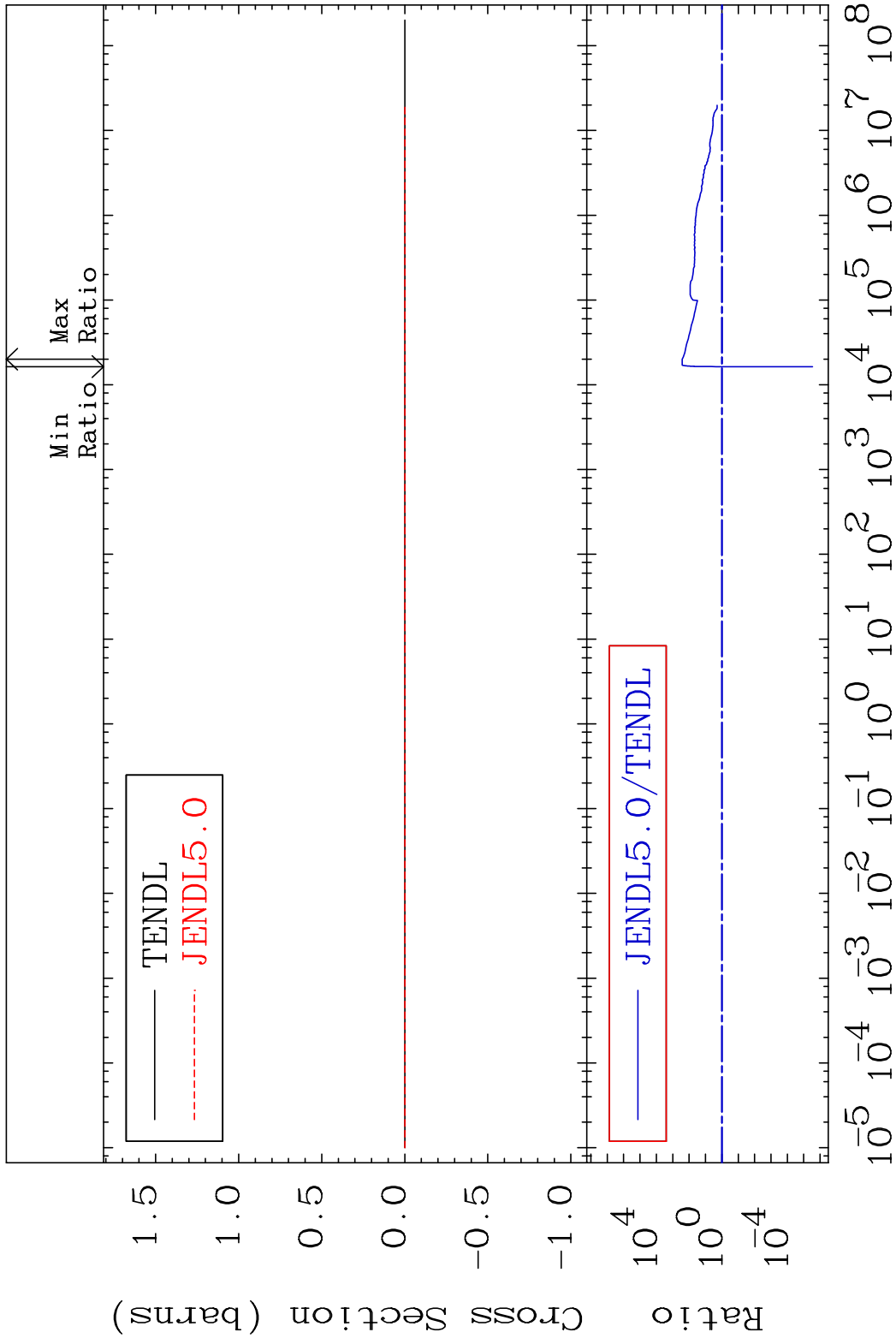
MAT 7331 Kerma non-elastic (all but mt2) 73-Ta-182
 Cross Section -98.29 To 9999. %



MAT 7331 Kerma inelastic (mt51-91) 73-Ta-182
 Cross Section -100.0 To 9999. %



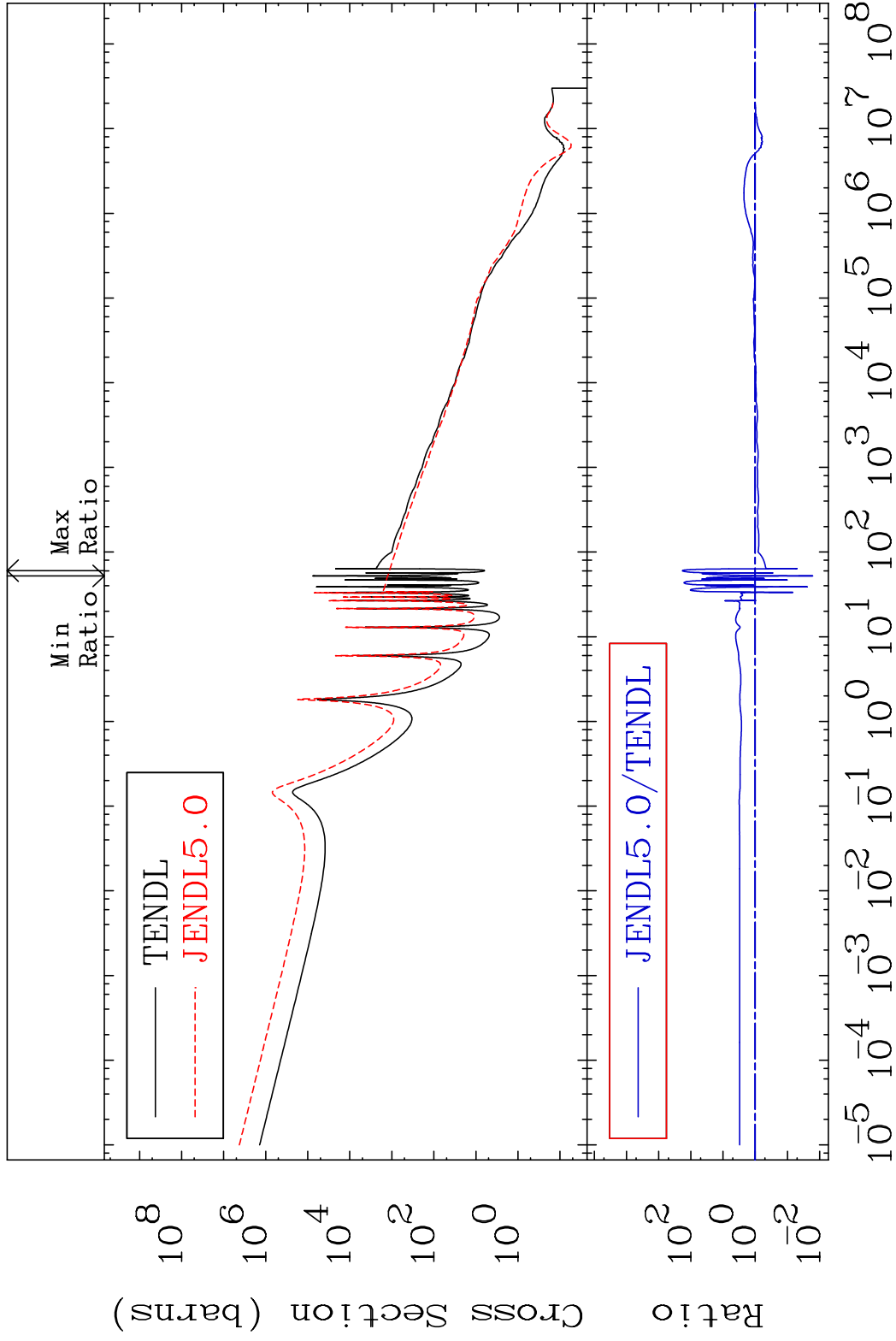
MAT 7331 Kerma fission (mt18 or mt19-20-21-38)73-Ta-182
 Cross Section -100.0 To 9999. %



MAT 7331

Kerma capture (mt102) 73-Ta-182

Cross Section -98.34 To 9999. %

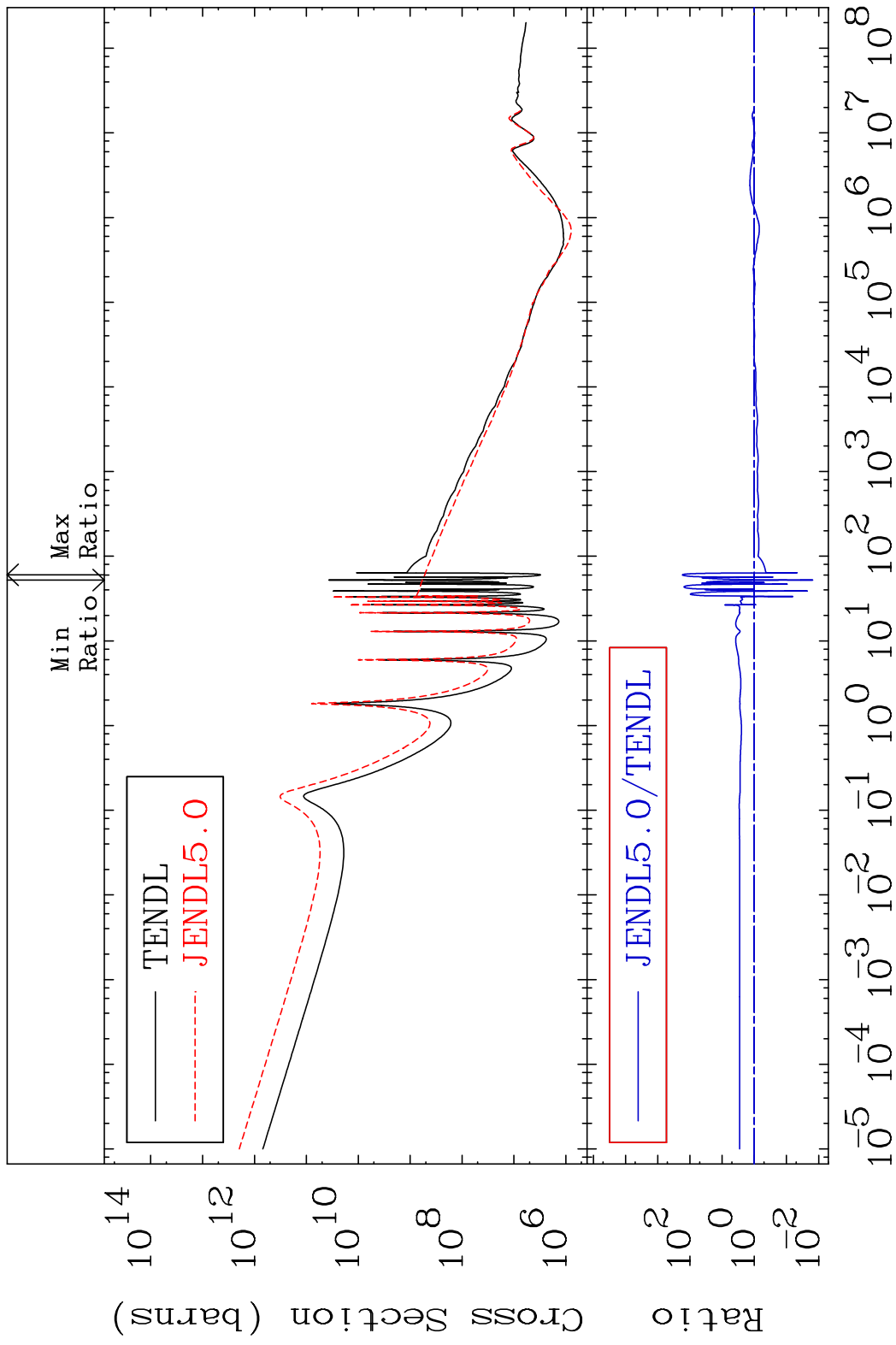


57

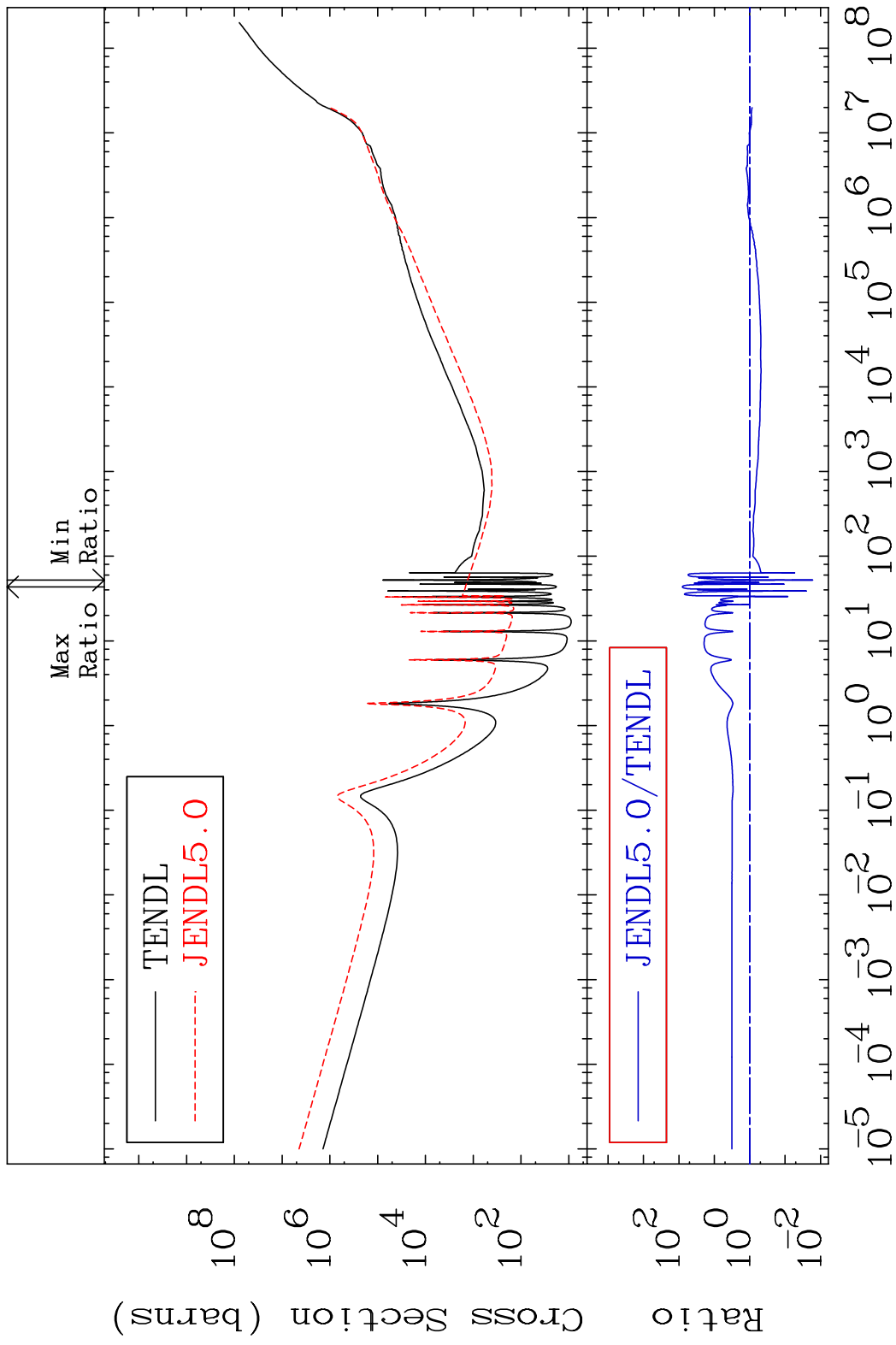
Incident Energy (eV)

73-Ta-182

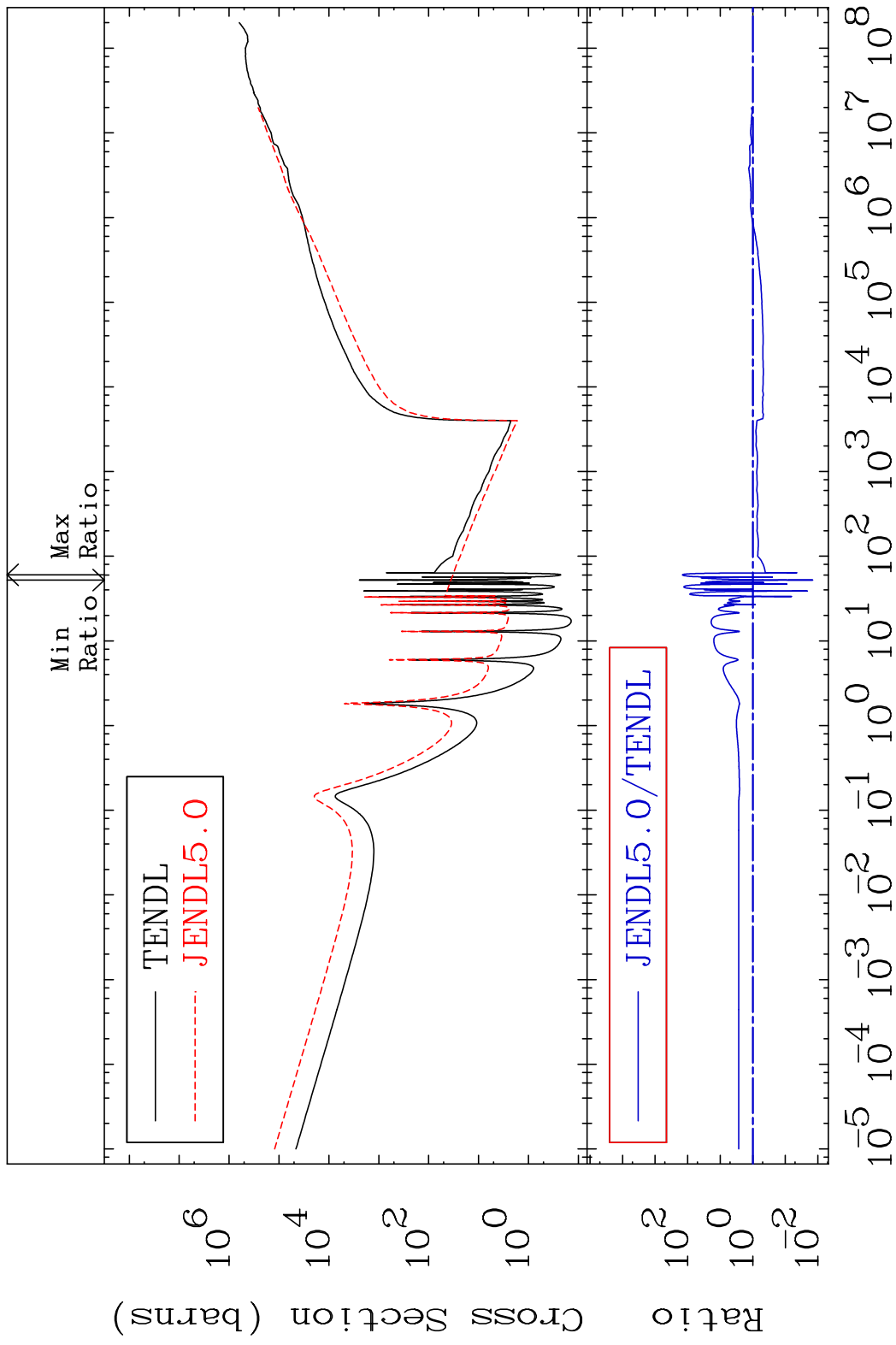
MAT 7331 Total photon (eV-barns) 73-Ta-182
Cross Section -98.45 To 9999. %



MAT 7331 Total kinematic kerma (high limit) 73-Ta-182
 Cross Section -98.33 To 7870. %



MAT 7331 Dpa total (eV-barns) 73-Ta-182
 Cross Section -98.54 To 9999. %



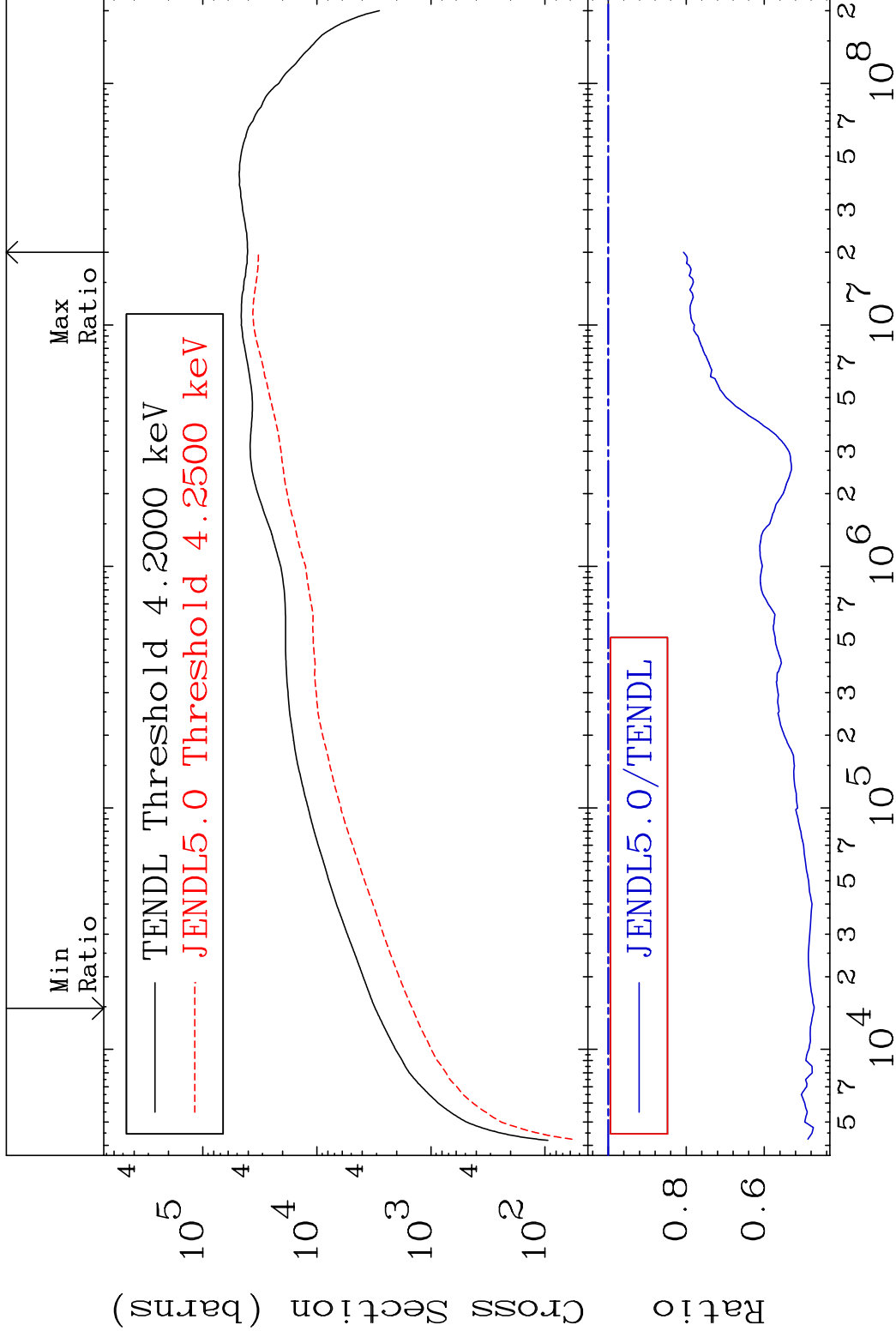
60 Incident Energy (eV) 73-Ta-182

MAT 7331

Dpa elastic (mt2)

73-Ta-182

Cross Section -52.75 To -19.28%

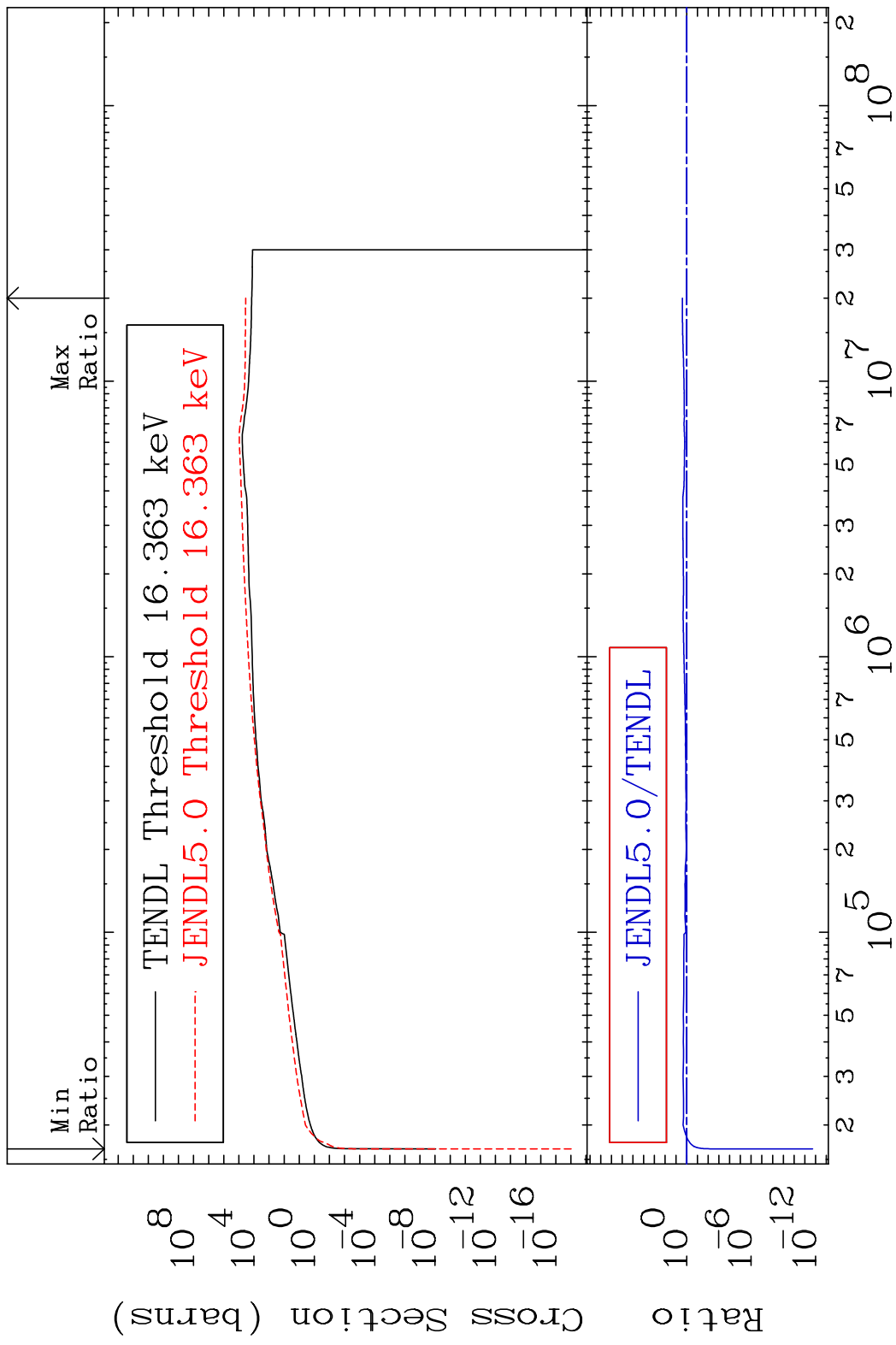


61

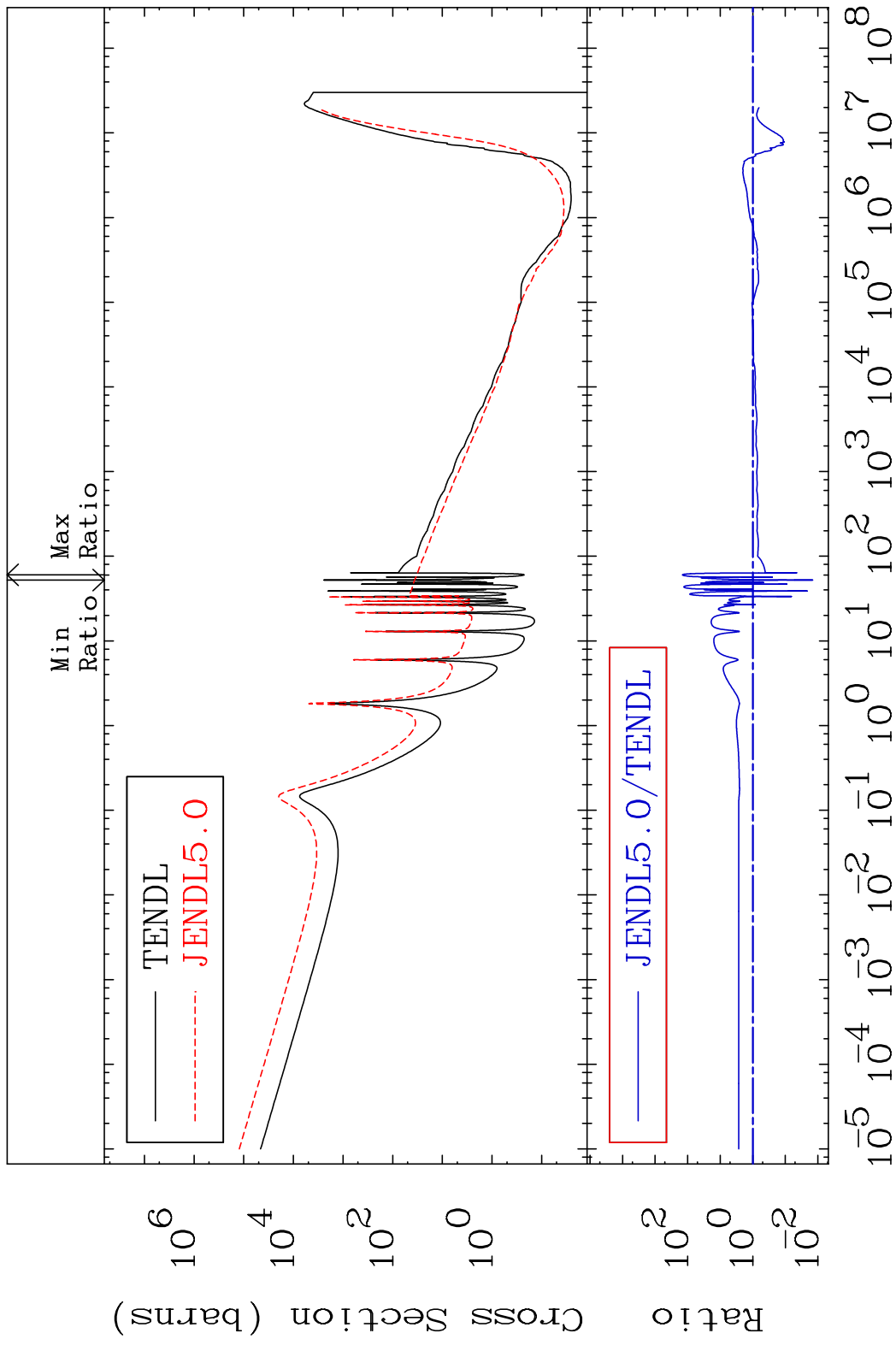
Incident Energy (eV)

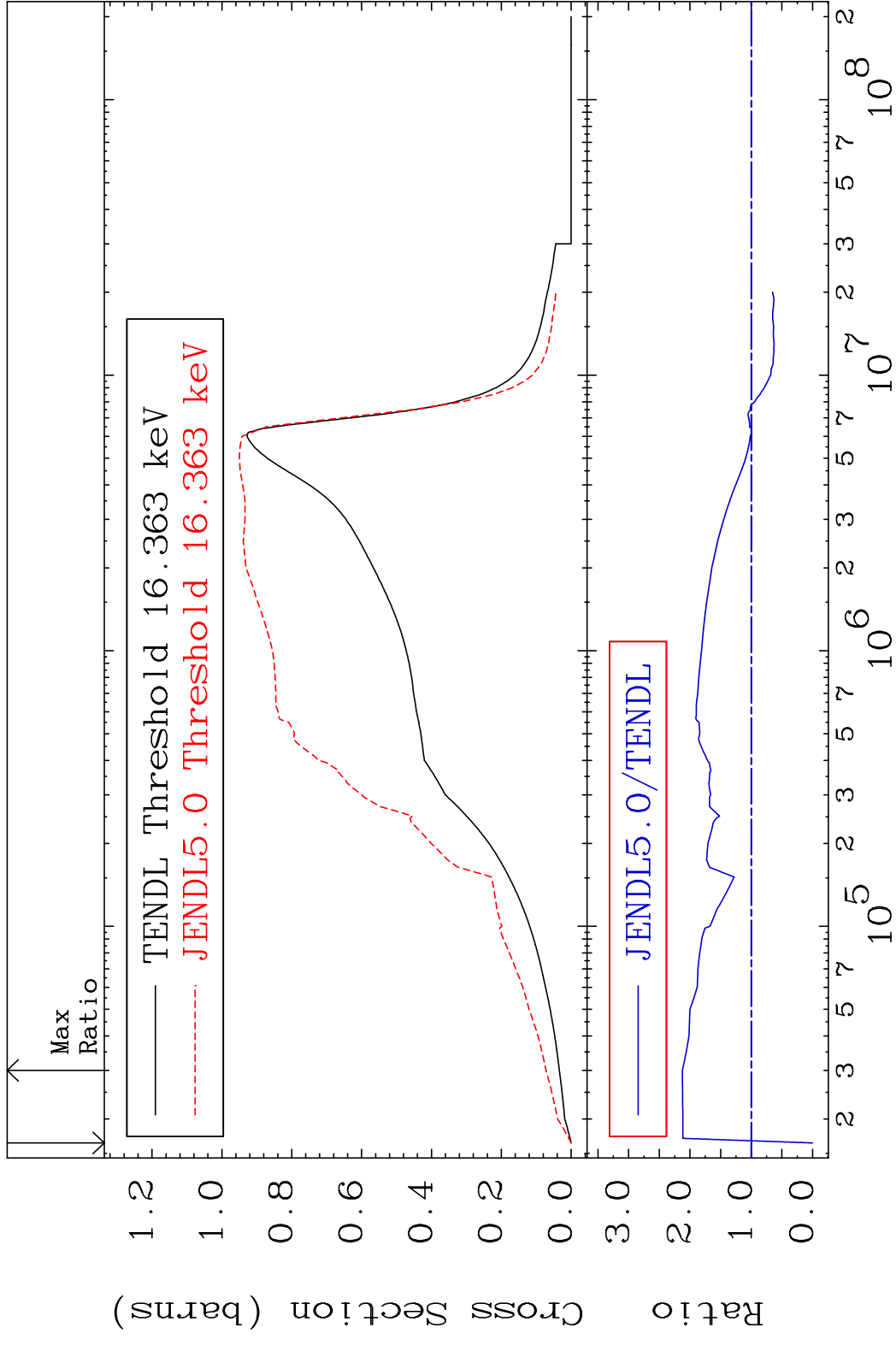
73-Ta-182

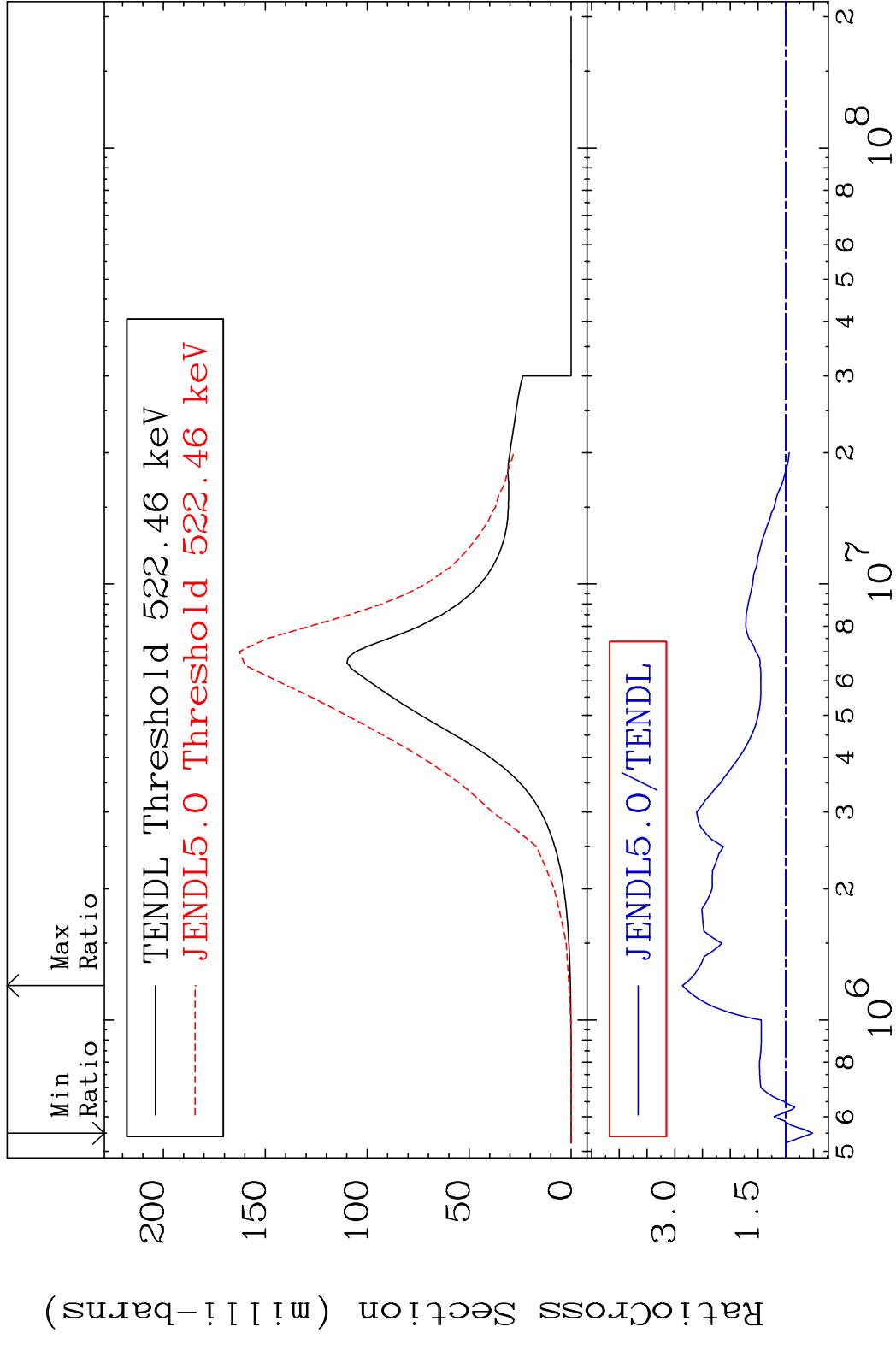
MAT 7331 Dpa inelastic (mt51-91) 73-Ta-182
 Cross Section -100.0 To 150.8 %



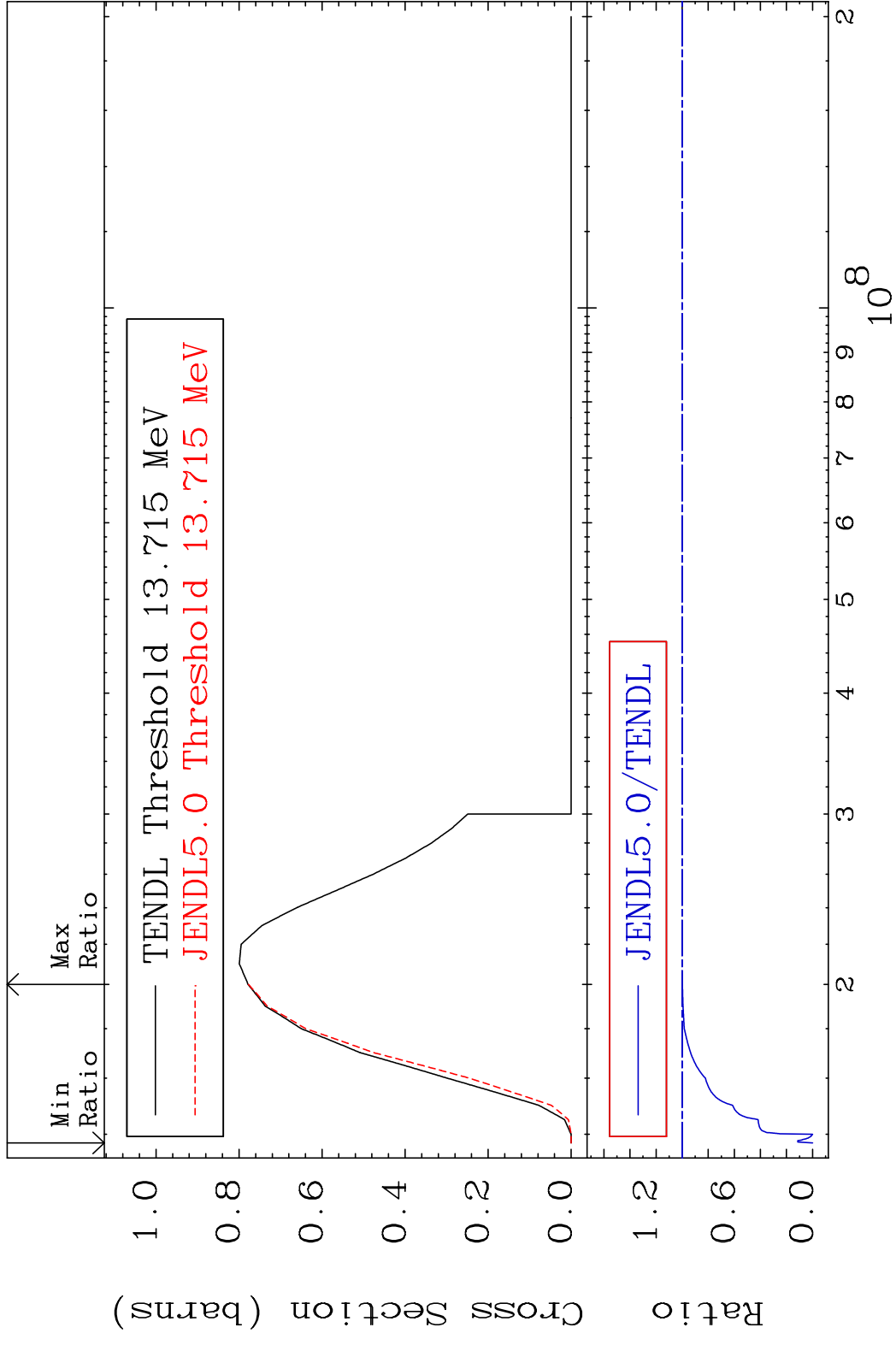
MAT 7331 Dpa disappearance (mt102 -120) 73-Ta-182
 Cross Section -98.54 To 9999. %



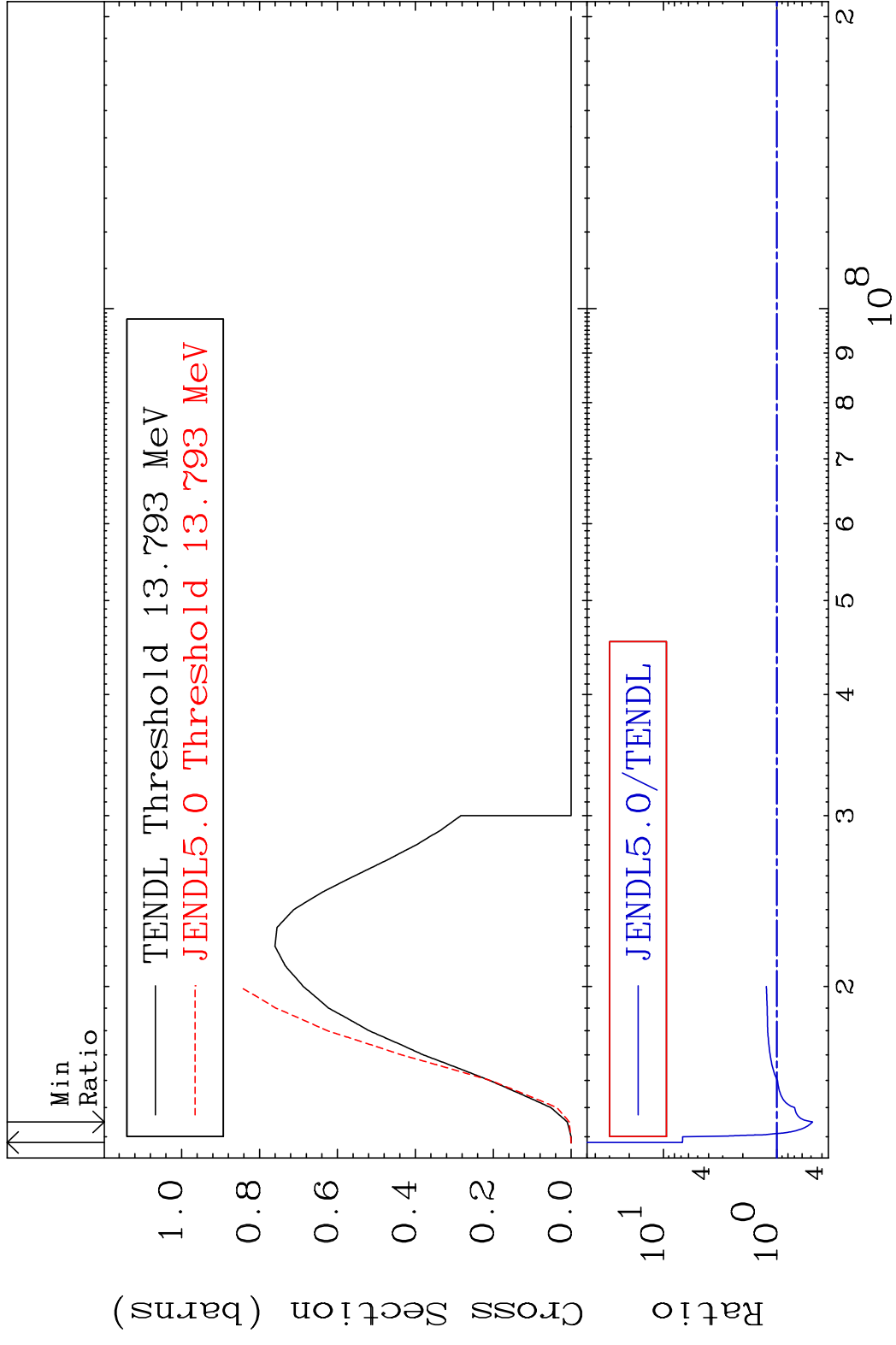




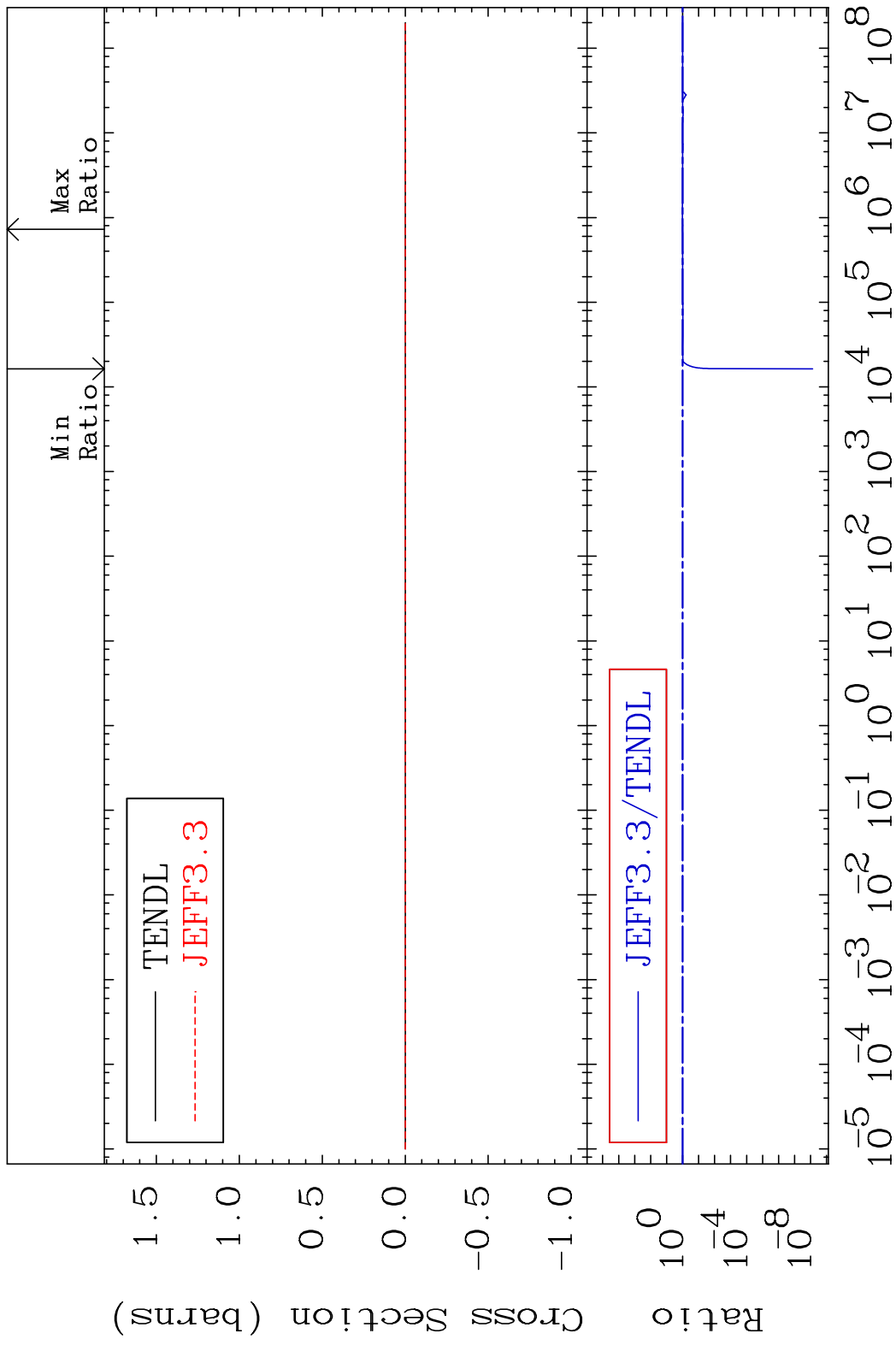
MAT 7331 (n,3n):73-Ta-180g 73-Ta-182
 Radionuclide Production Cross Section Ratio -0.150%



MAT 7331 (n, 3n): 73-Ta-180m2 73-Ta-182
 Radionuclide Production Cross Section 581.5 %



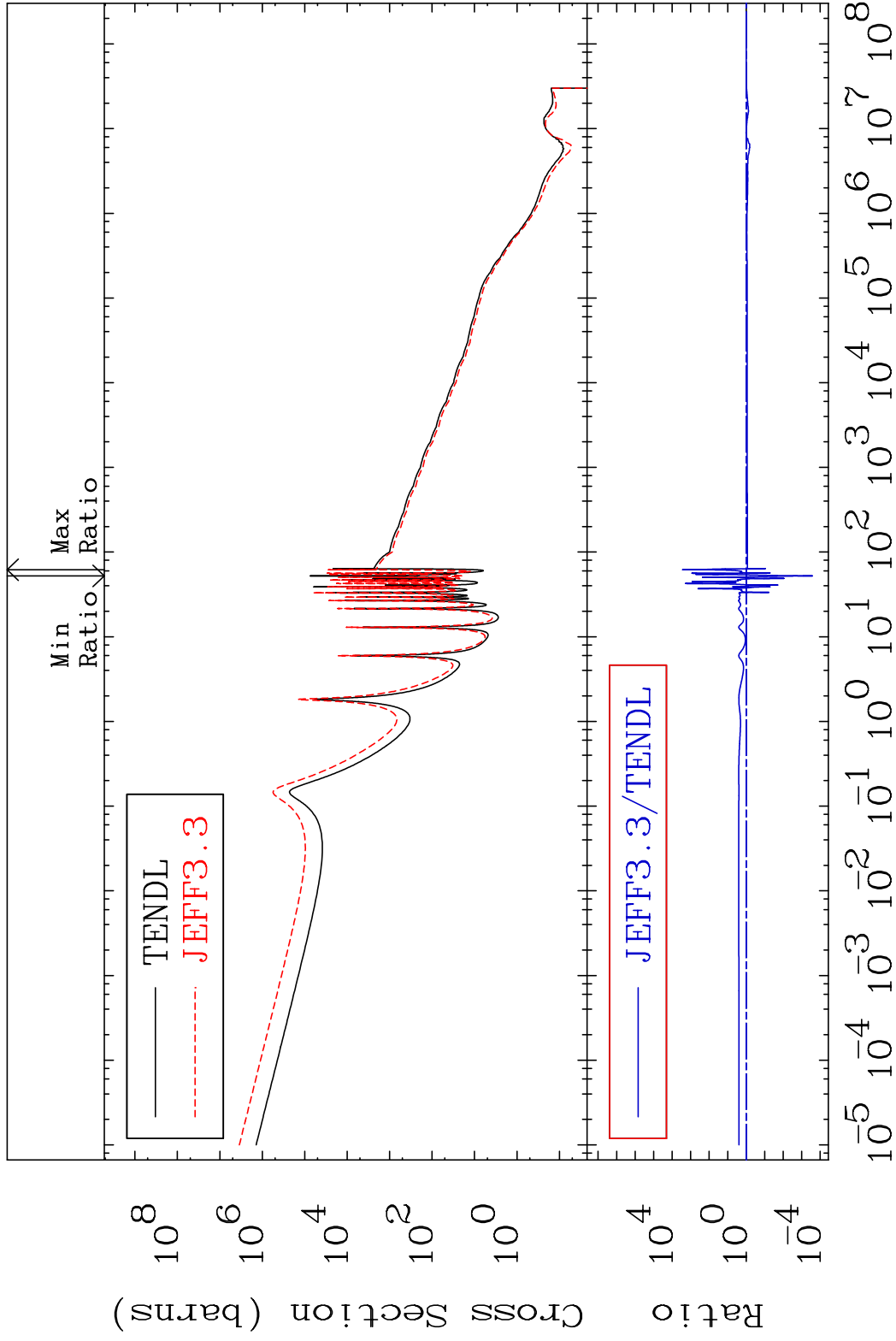
MAT 7331 Kerma fission (mt18 or mt19-20-21-38)73-Ta-182
 Cross Section -100.0 To 3.902 %



MAT 7331

Kerma capture (mt102) 73-Ta-182

Cross Section -99.97 To 9999. %



69

Incident Energy (eV)

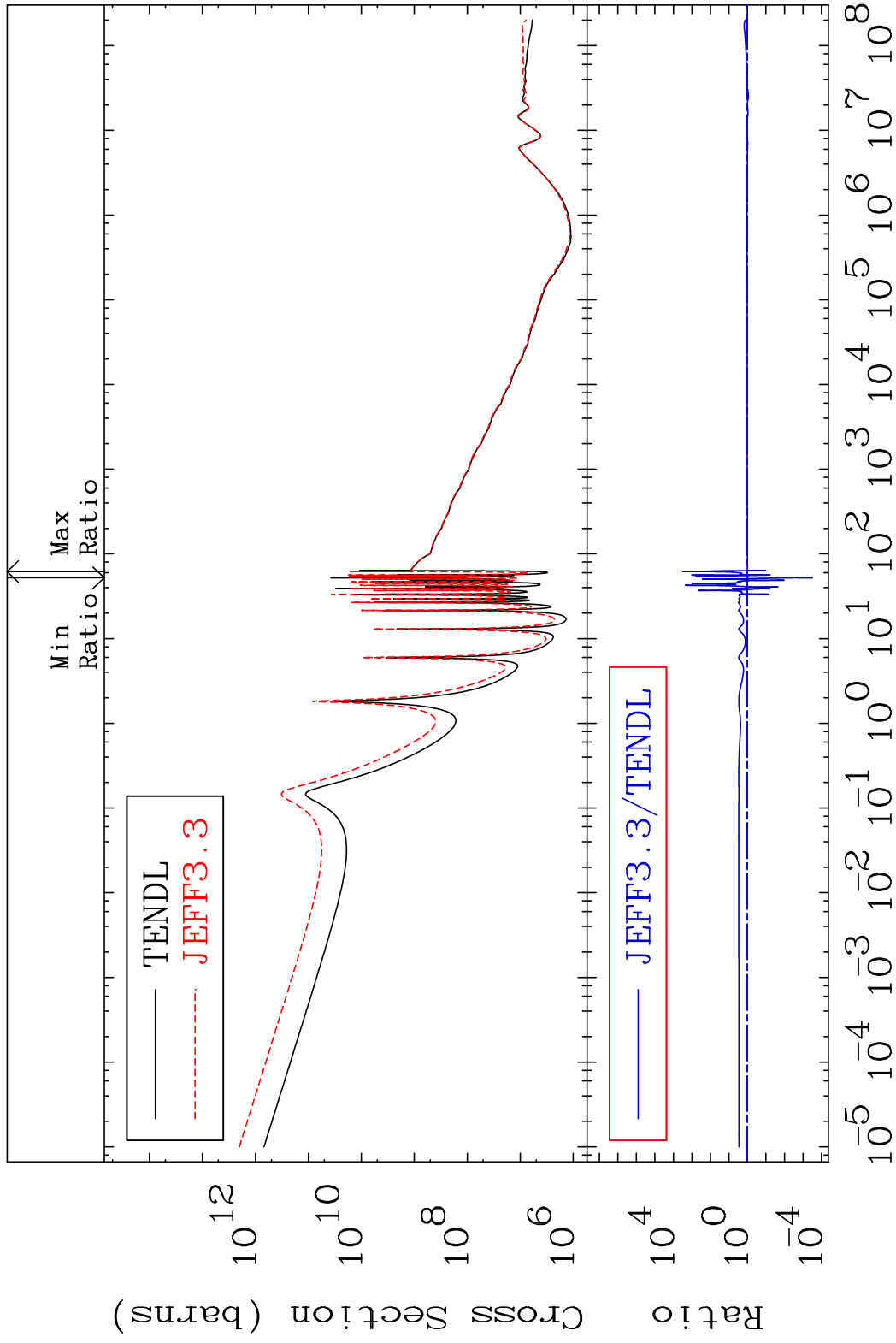
73-Ta-182

MAT 7331

Total photon (eV-barns)

73-Ta-182

Cross Section -99.97 To 9999. %

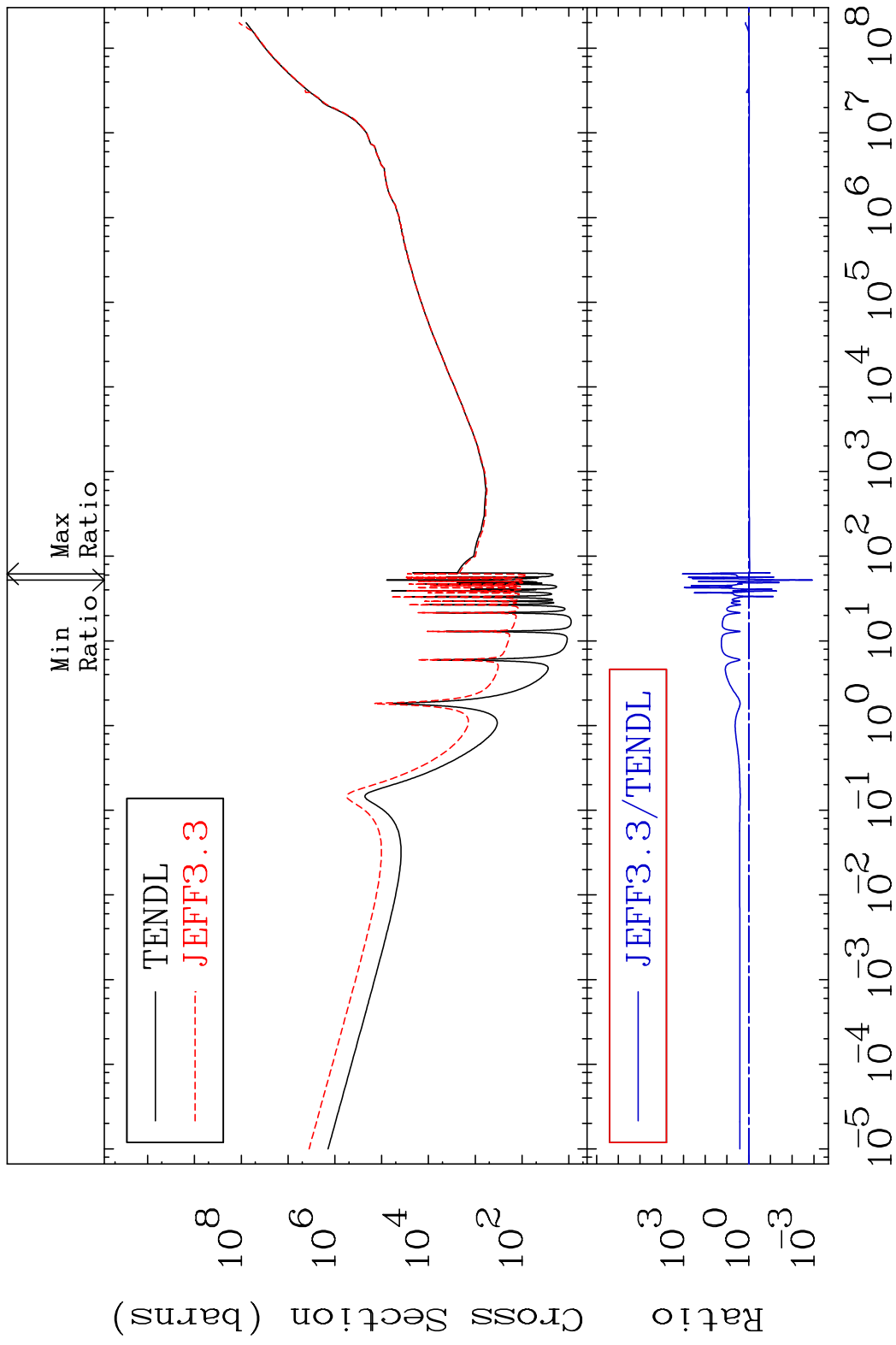


70

Incident Energy (eV)

73-Ta-182

MAT 7331 Total kinematic kerma (high limit) 73-Ta-182
 Cross Section -99.88 To 9999. %

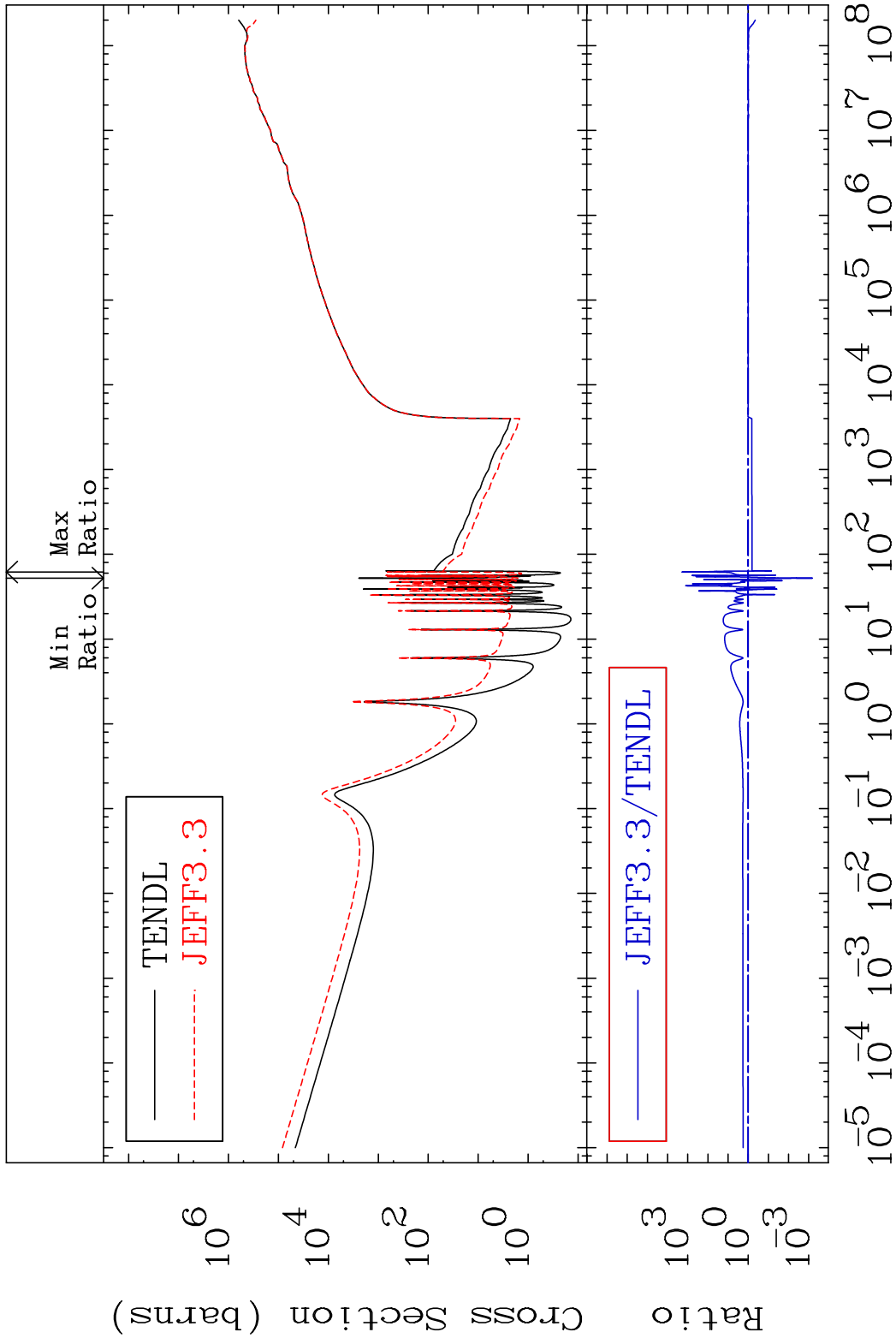


MAT 7331

Dpa total (eV-barns)

73-Ta-182

Cross Section -99.94 To 9999. %



72

Incident Energy (eV)

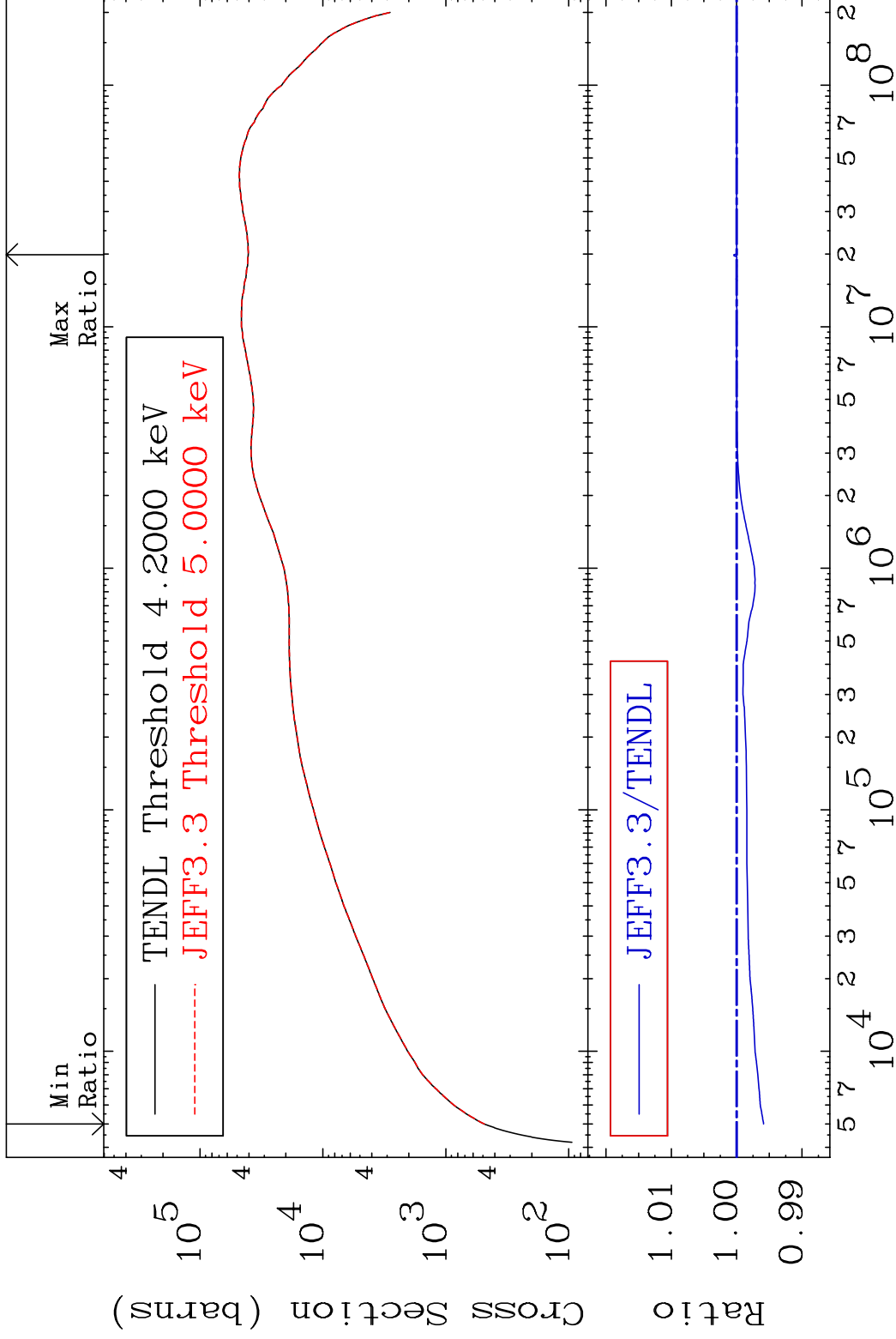
73-Ta-182

MAT 7331

Dpa elastic (mt2)

73-Ta-182

Cross Section -0.412 To 0.043 %

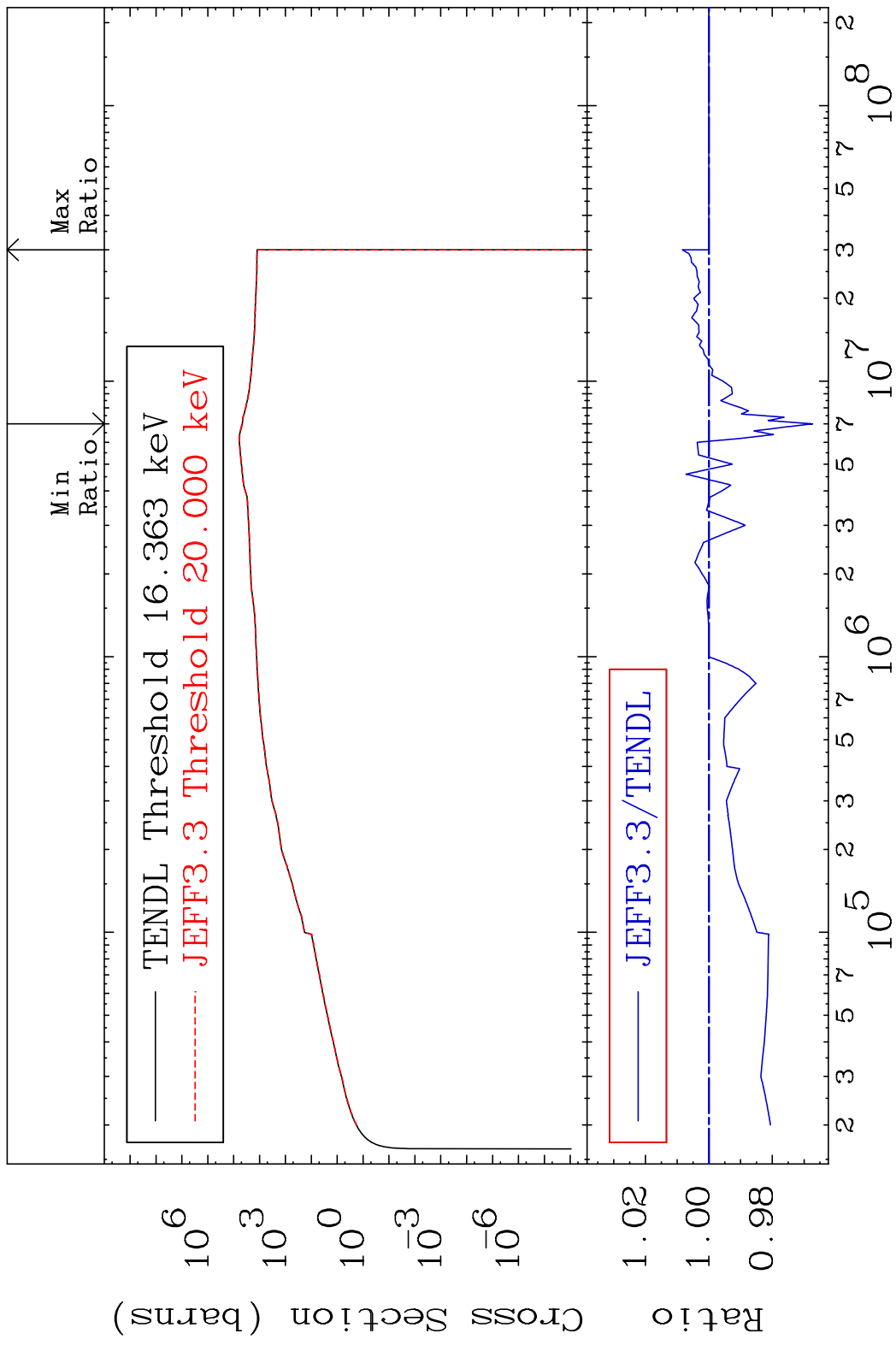


73

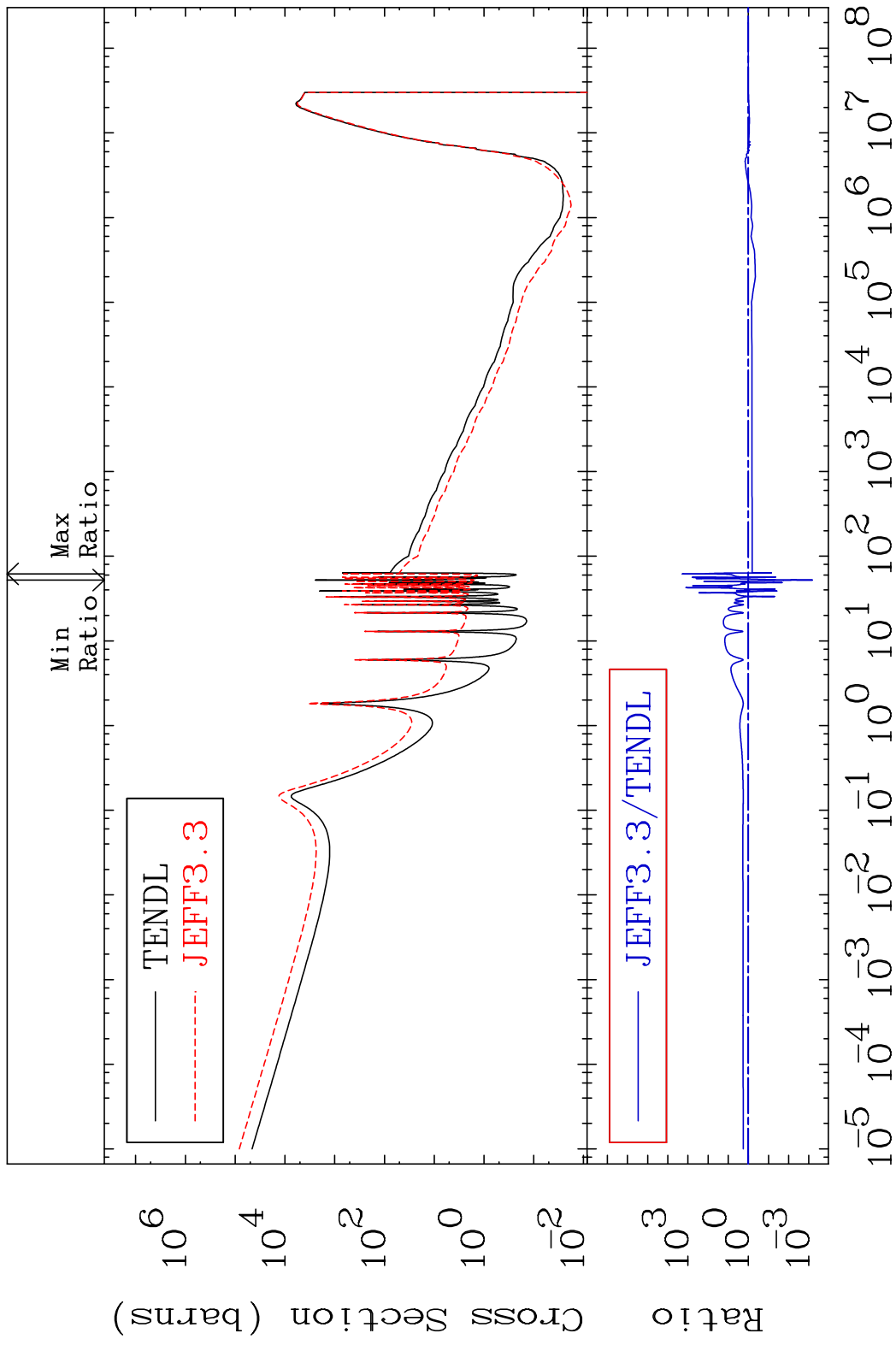
Incident Energy (eV)

73-Ta-182

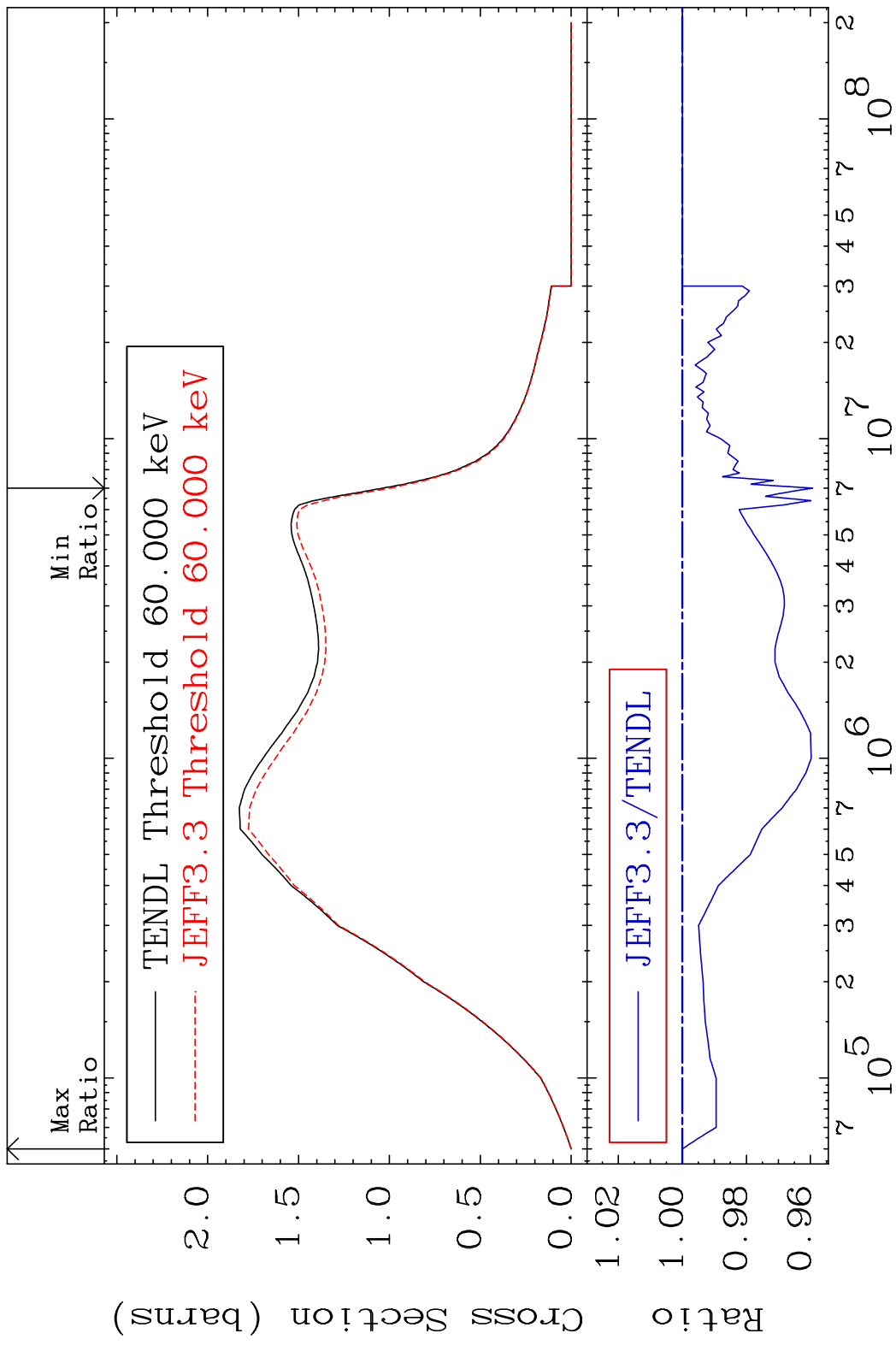
MAT 7331 Dpa inelastic (mt51-91) 73-Ta-182
 Cross Section -3.268 To 0.837 %



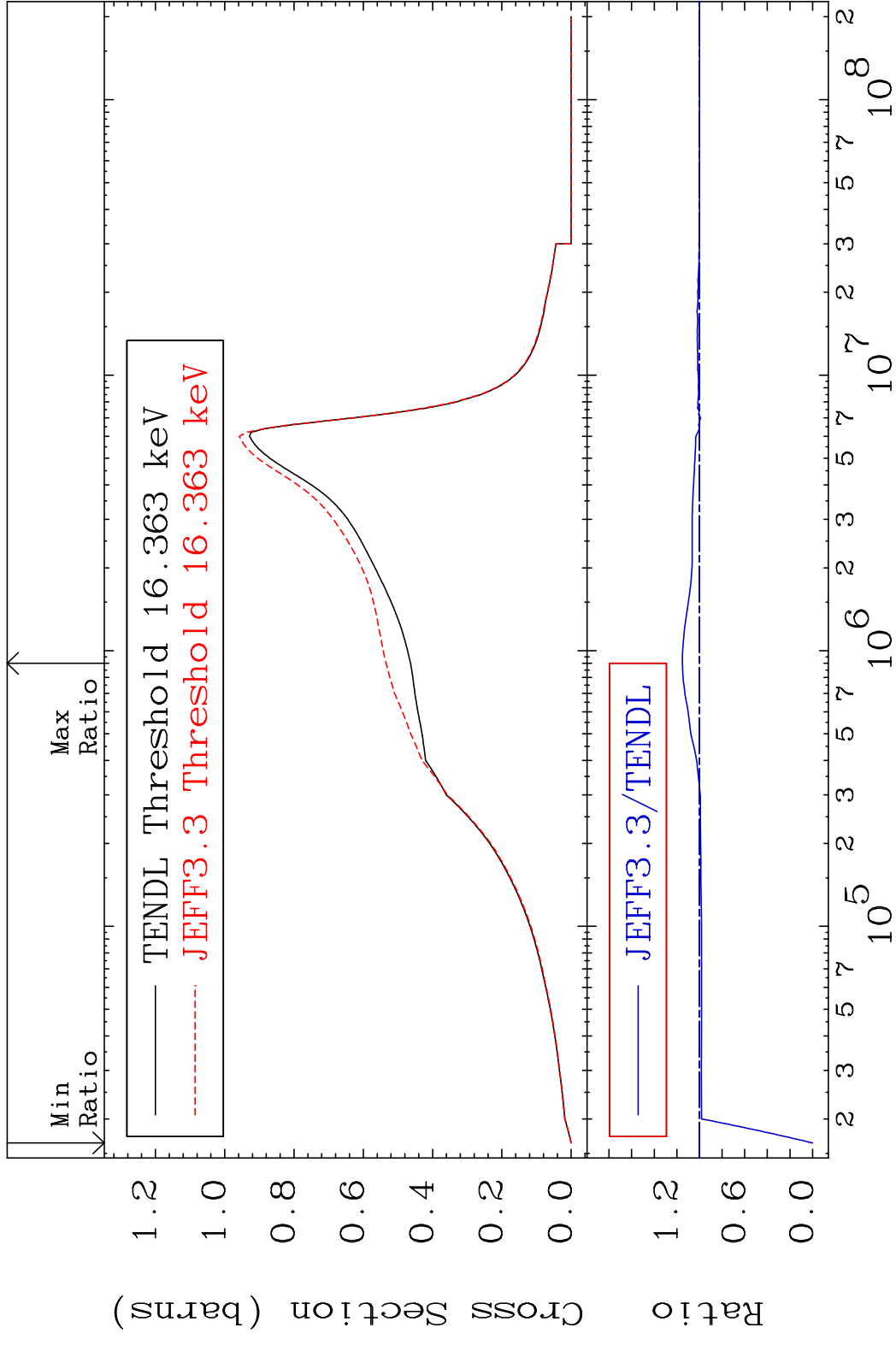
MAT 7331 Dpa disappearance (mt102 -120) 73-Ta-182
 Cross Section -99.94 To 9999. %

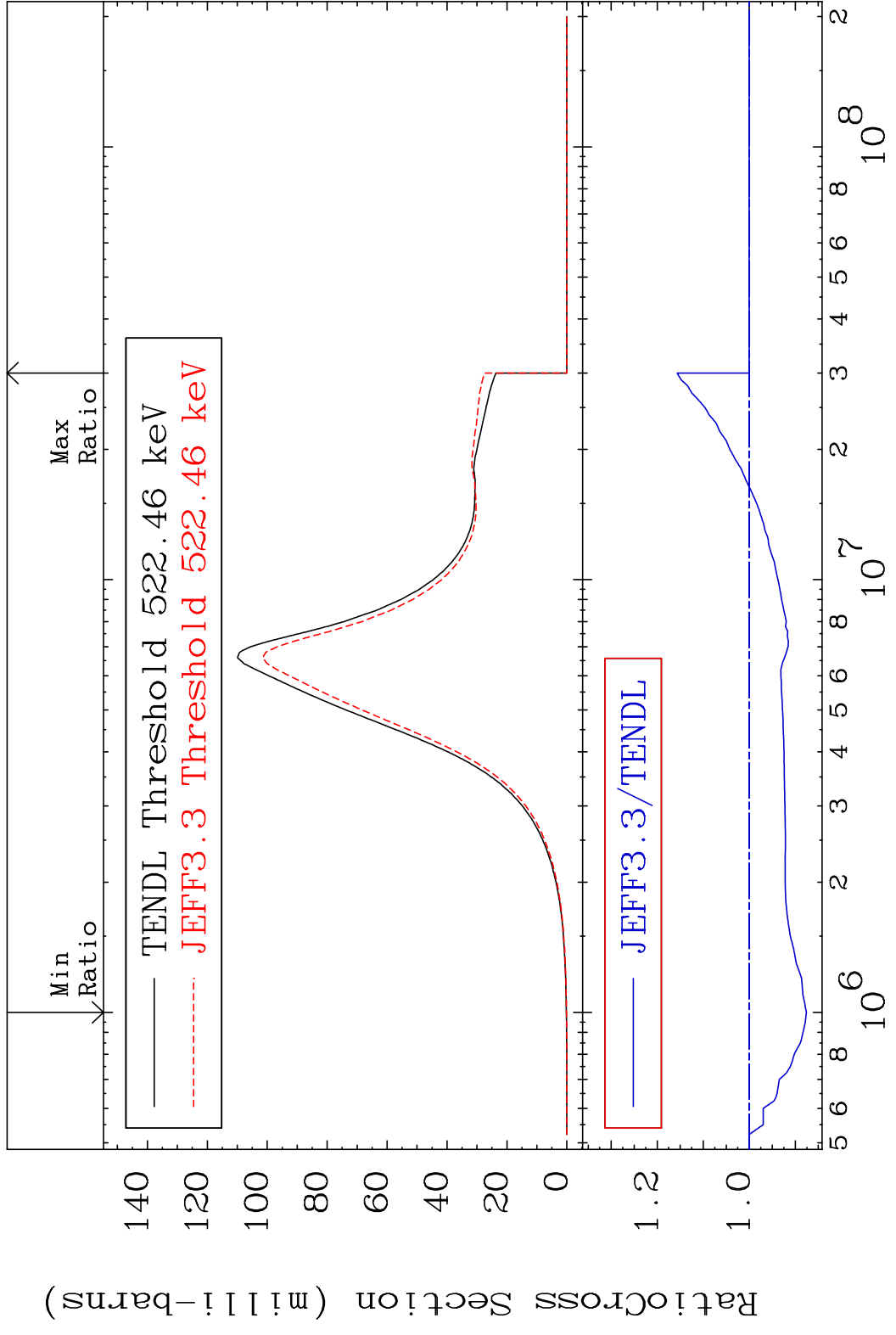


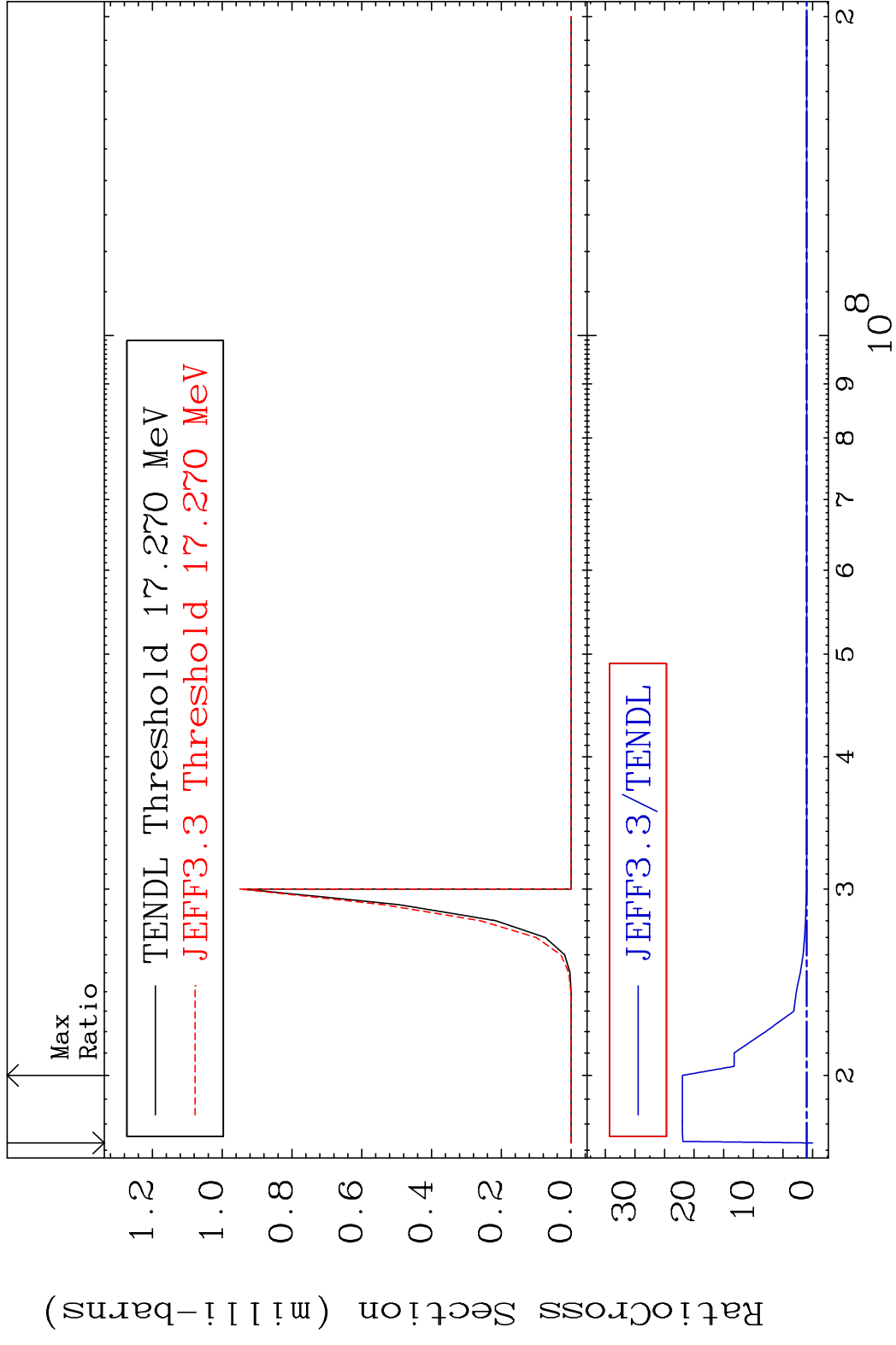
75 Incident Energy (eV) 73-Ta-182



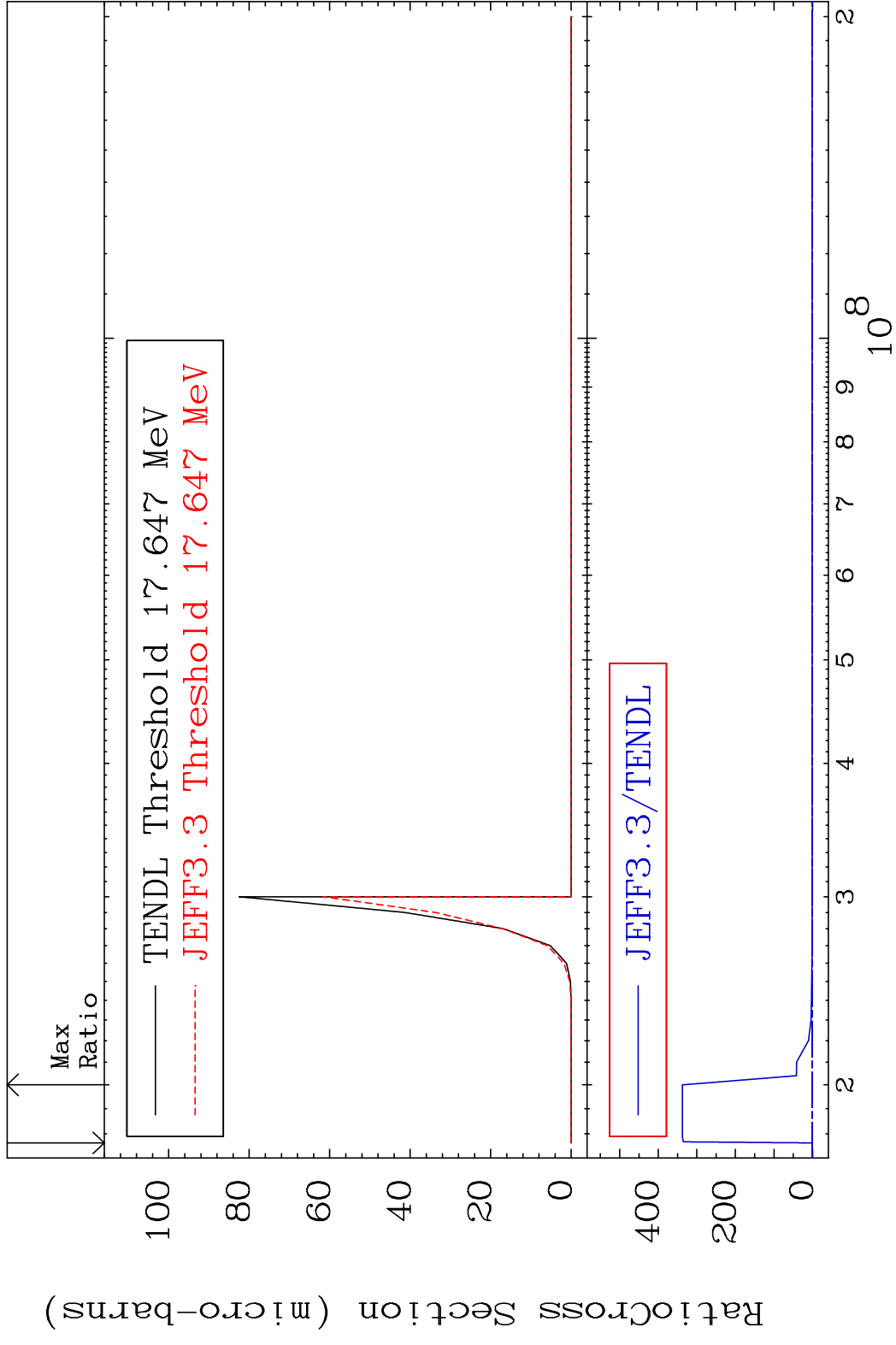
MAT 7331 Inelastic: 73-Ta-182m1 73-Ta-182
 Radionuclide Production Cross Section 15.13 %



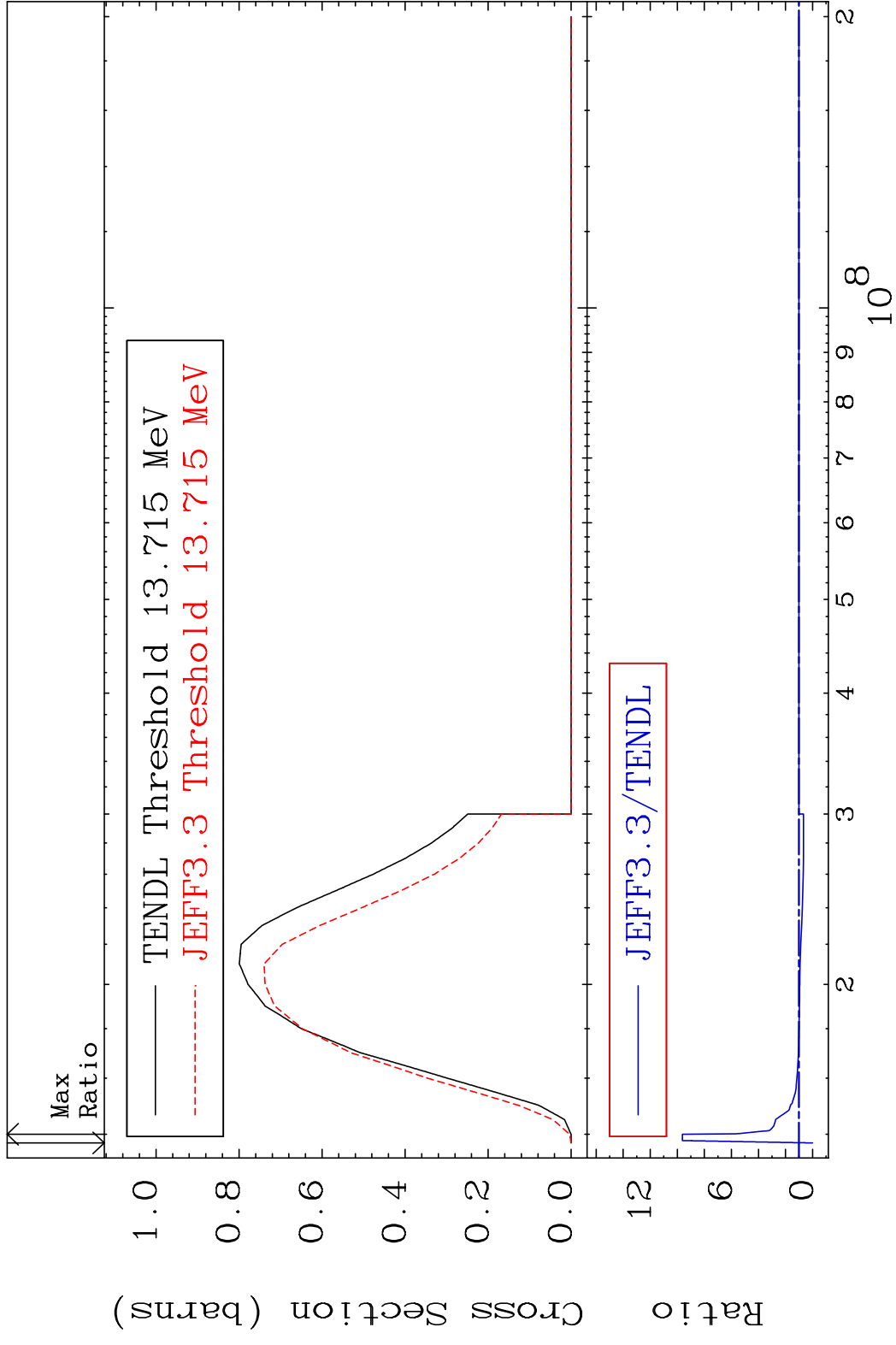


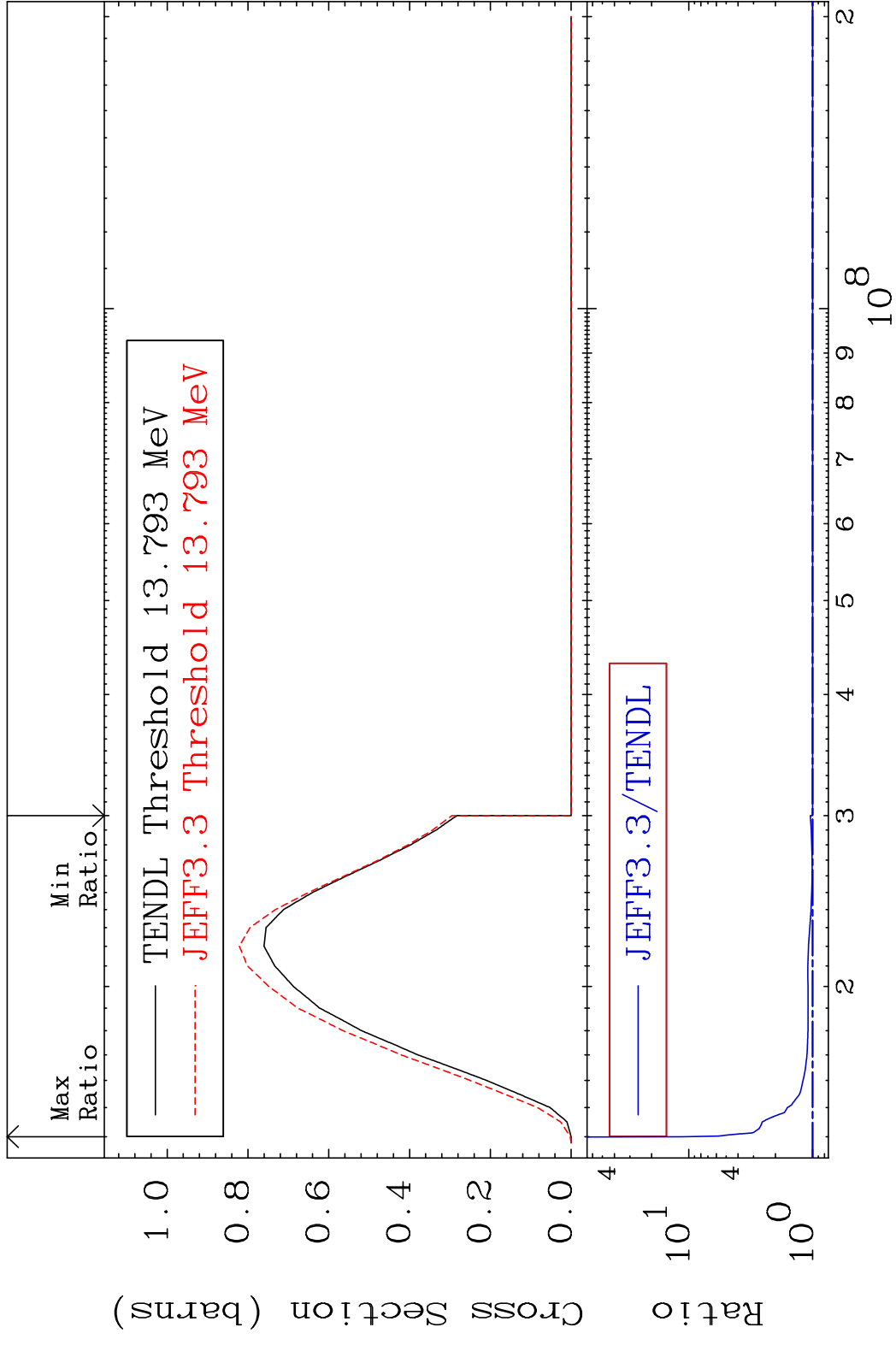


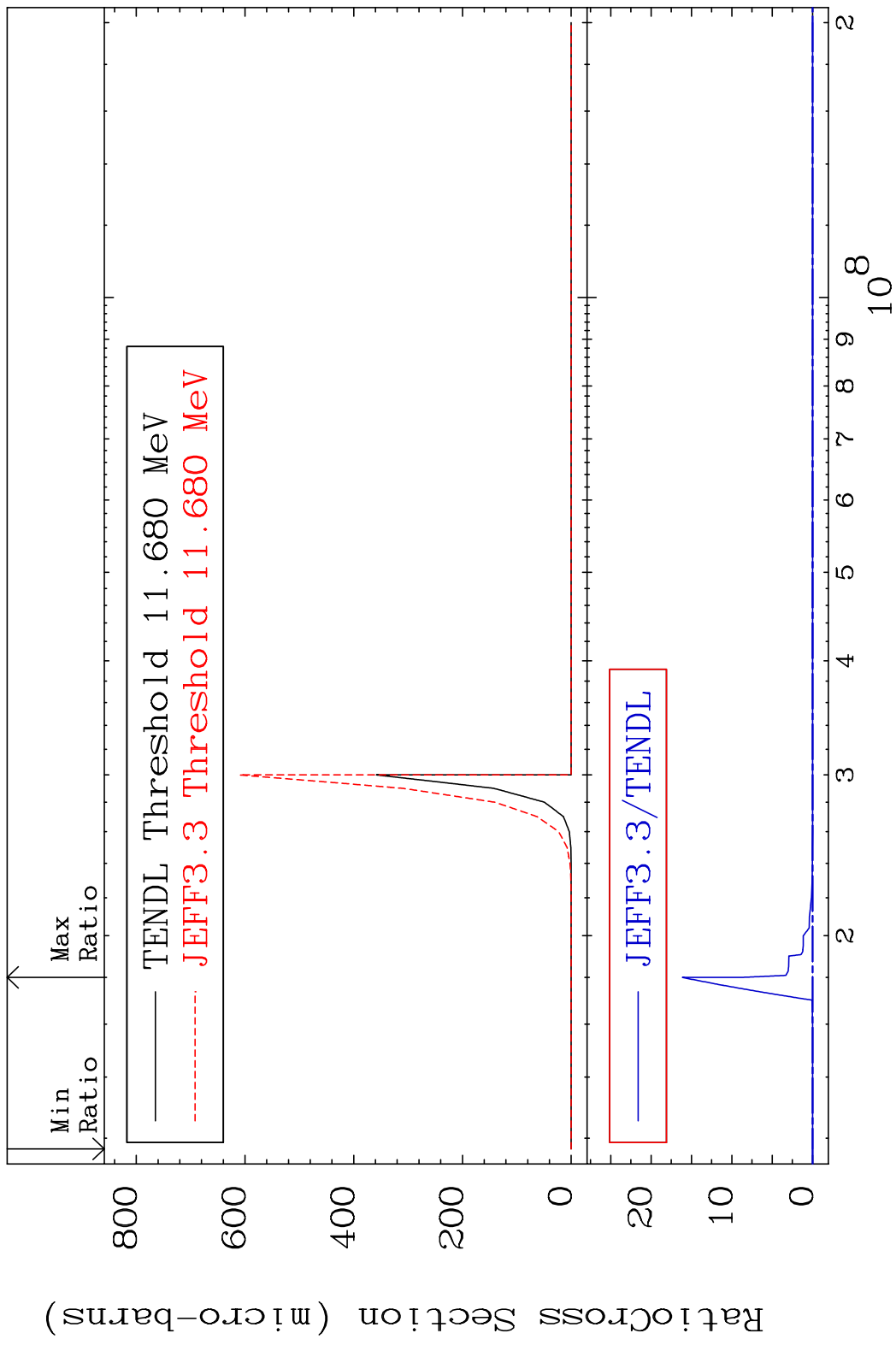
MAT 7331 (n,2n) d:72-Hf-179m5 73-Ta-182
 Radionuclide Production Cross Section (%)

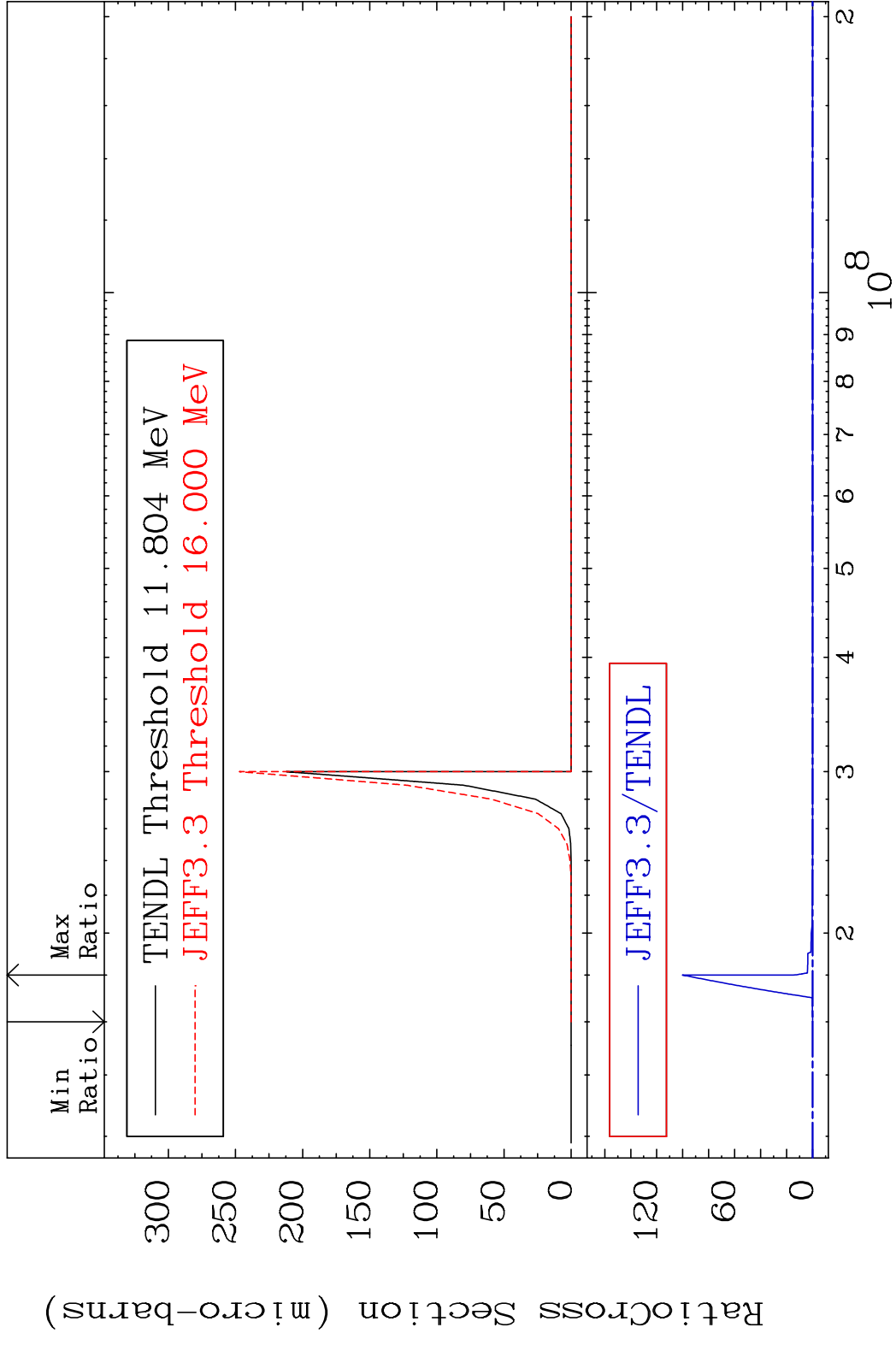


MAT 7331 (n,3n):73-Ta-180g 73-Ta-182
 Radionuclide Production Cross Section Ratio 862.6 %

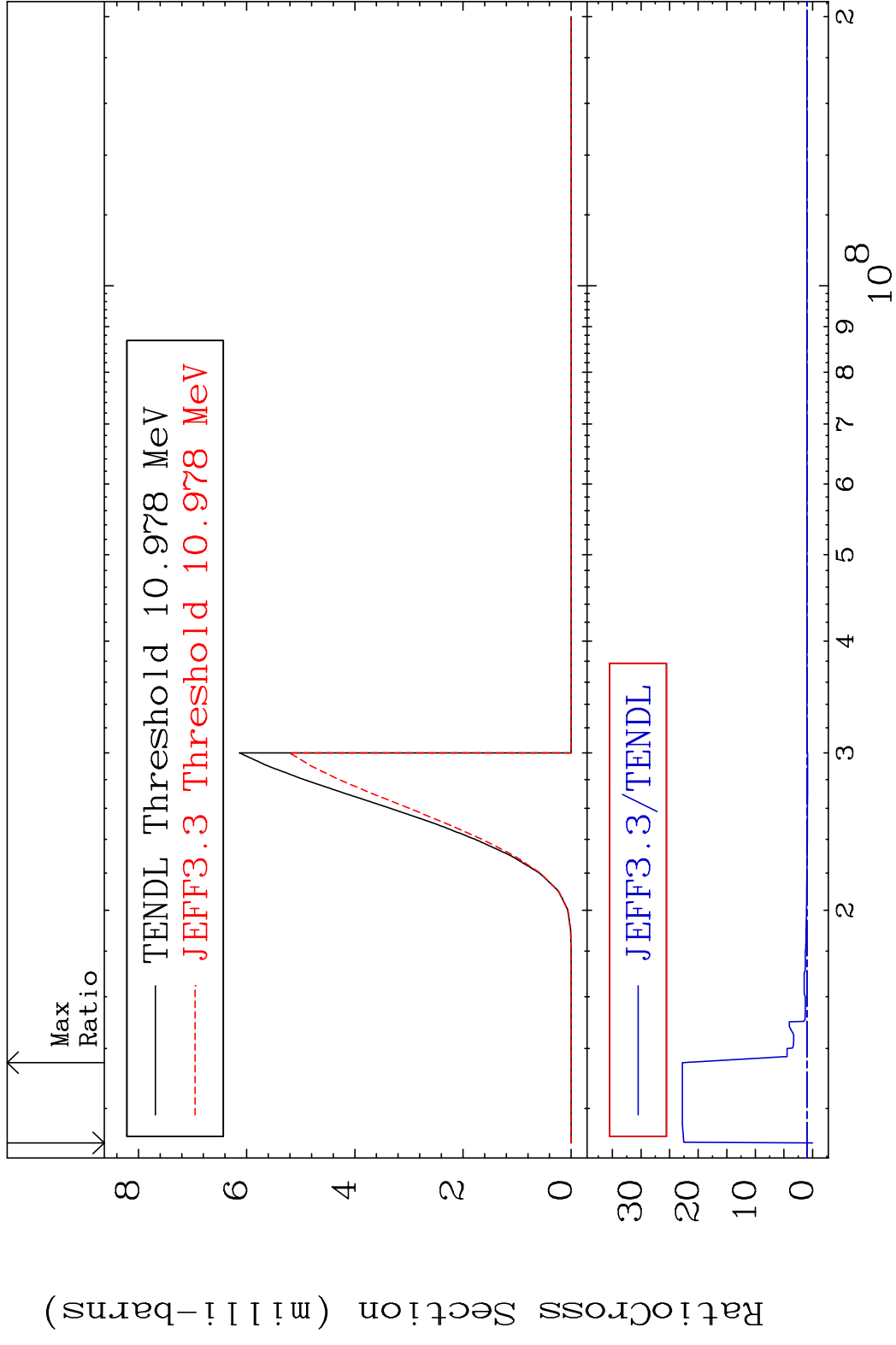








MAT 7331 (n, n') t:72-Hf-179g 73-Ta-182
 Radionuclide Production Cross Section 180.01 dth 2177. %



MAT 7331 (n, n') t:72-Hf-179m5 73-Ta-182
 Radionuclide Production Cross Section 48.616 dno 586.0 %

