

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

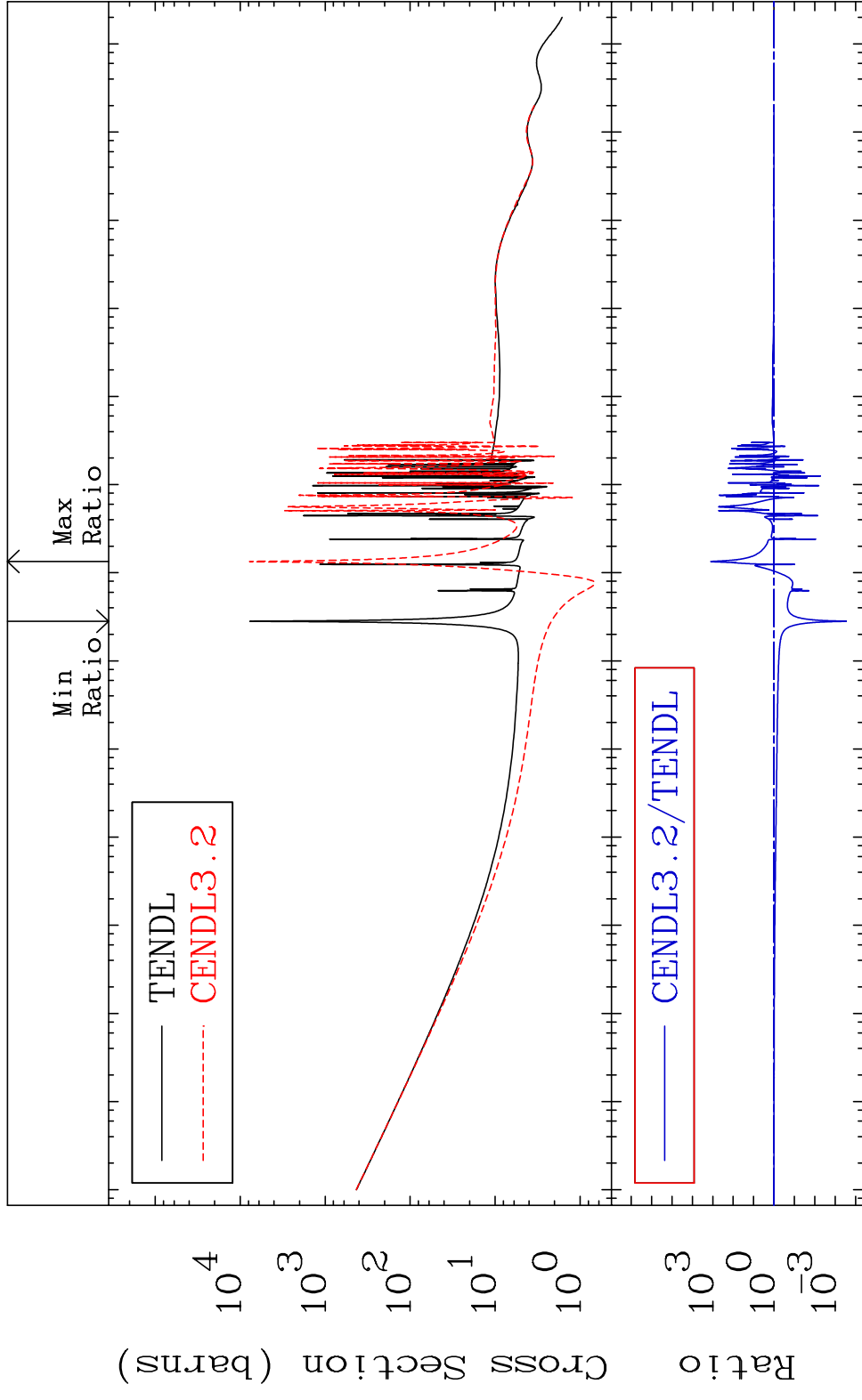
Press Mouse Button to Start

MAT 4228

Total

42-Mo-93

Cross Section -99.97 To 9999. %



1

Incident Energy (eV)

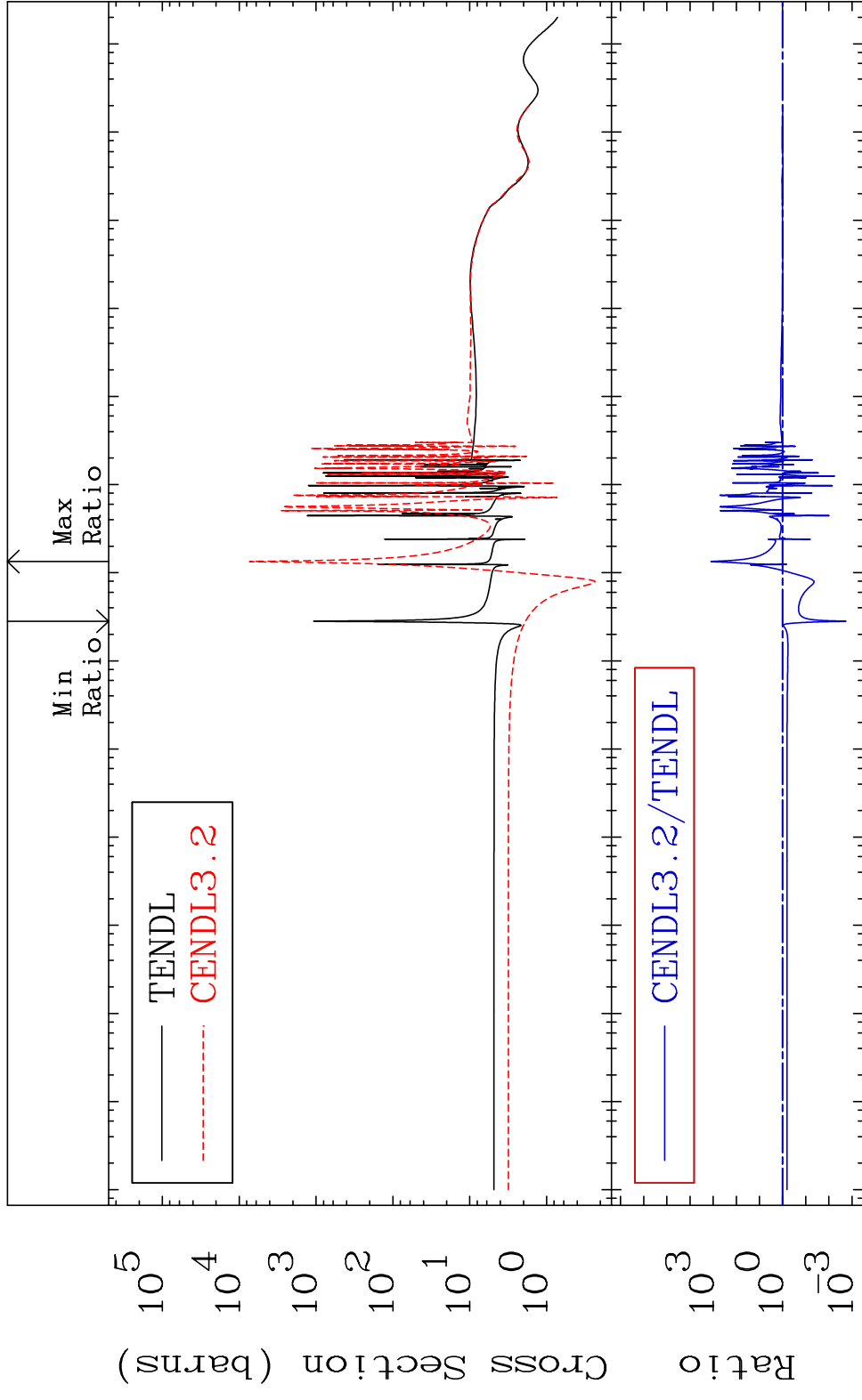
42-Mo-93

MAT 4228

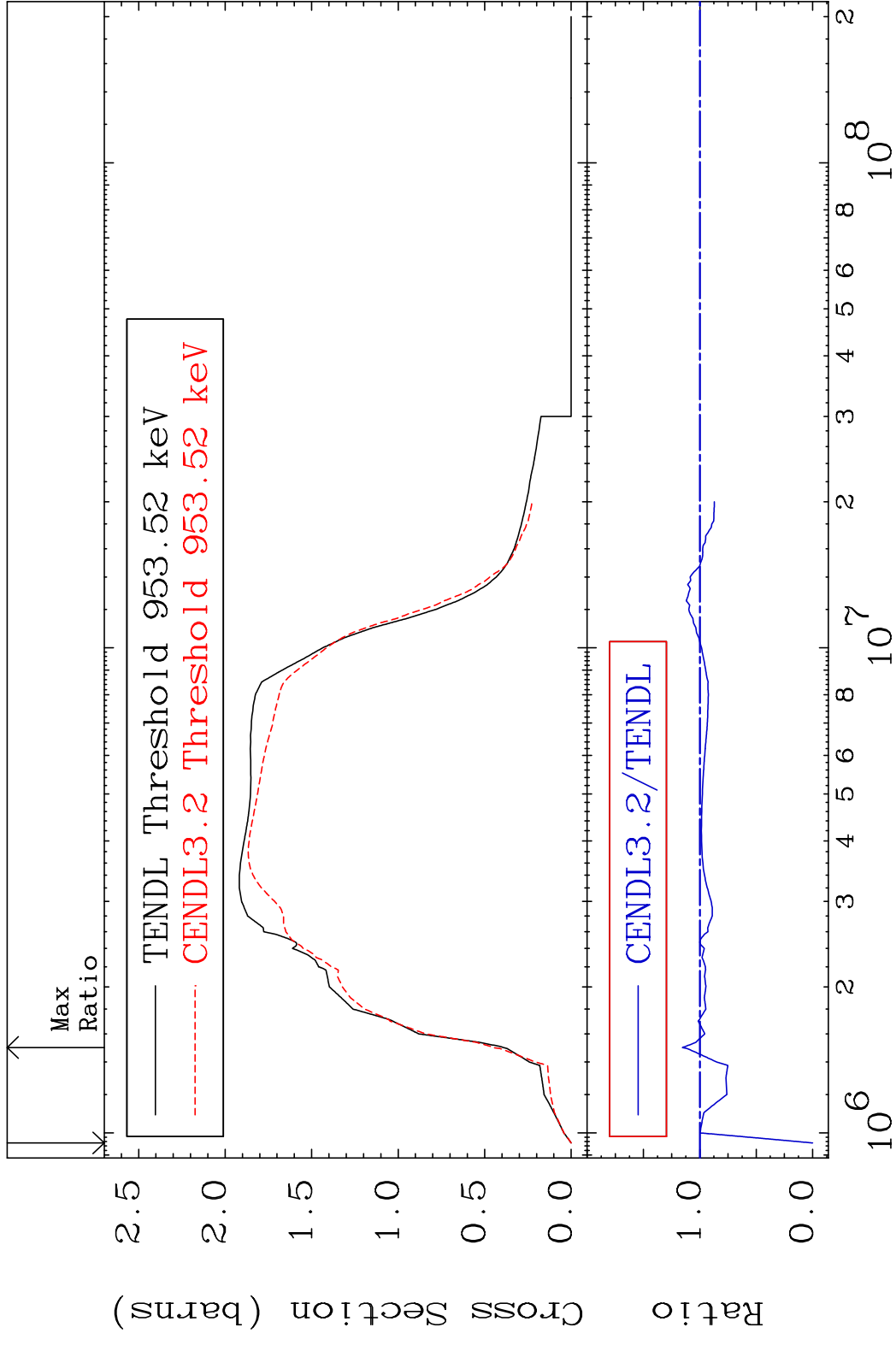
42-Mo-93

Elastic

Cross Section -99.82 To 9999. %



MAT 4228 Inelastic 42-Mo-93  
 Cross Section -100.0 To 15.52 %



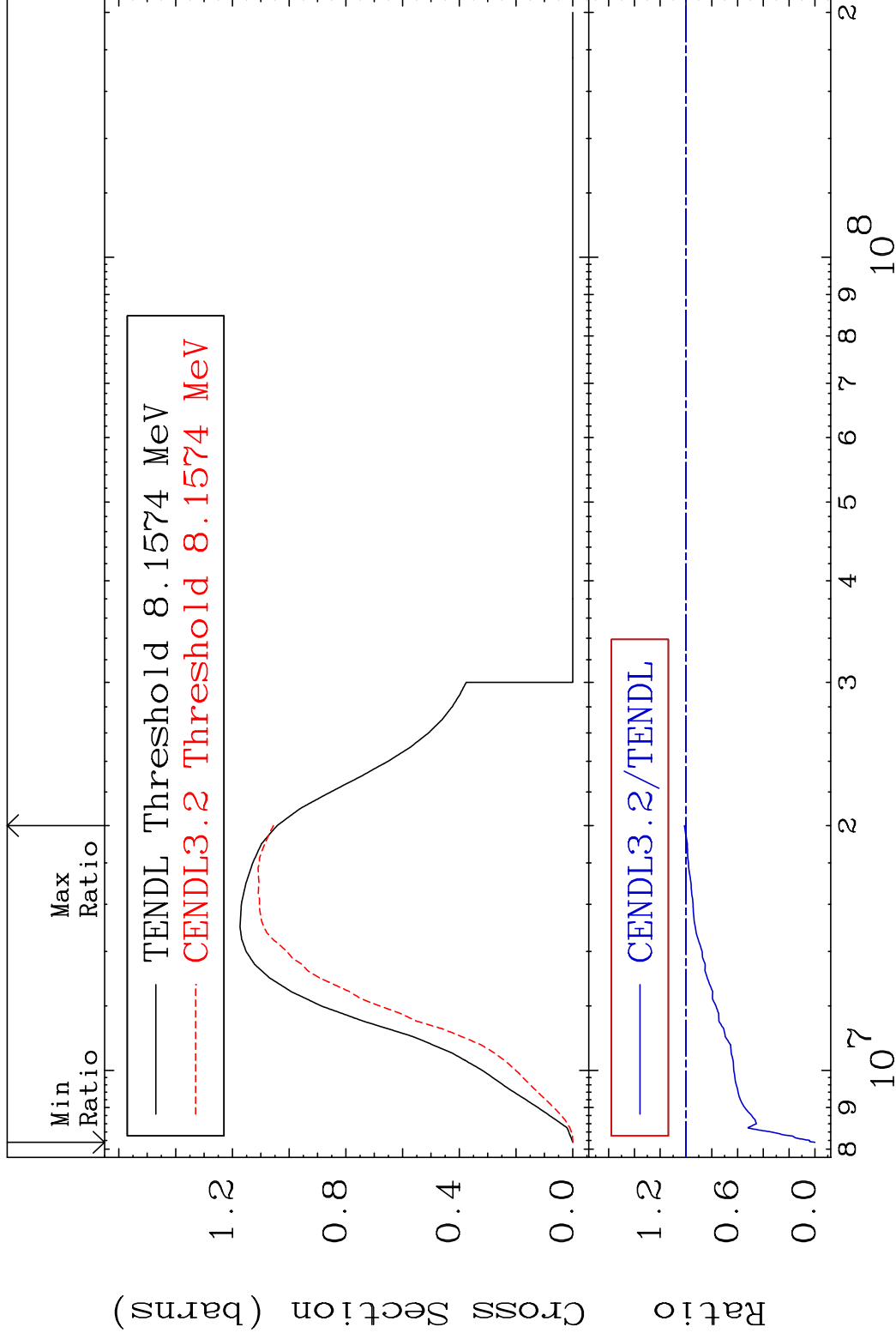
3 Incident Energy (eV) 42-Mo-93

MAT 4228

(n,2n)

42-Mo-93

Cross Section -100.0 To 1.279 %



4

Incident Energy (eV)

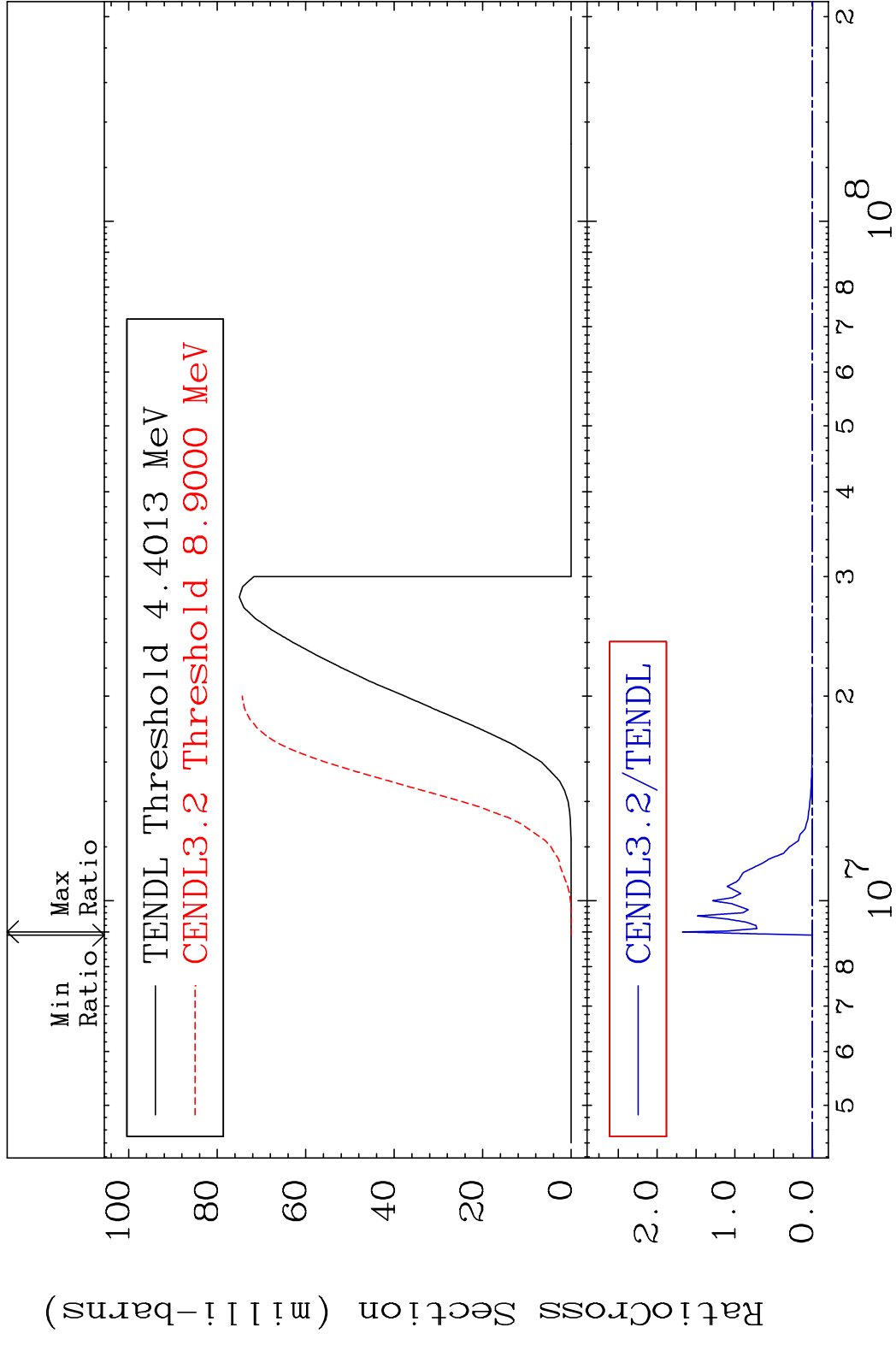
42-Mo-93

MAT 4228

(n, n')  $\alpha$

42-Mo-93

Cross Section -100.0 To 9999. %

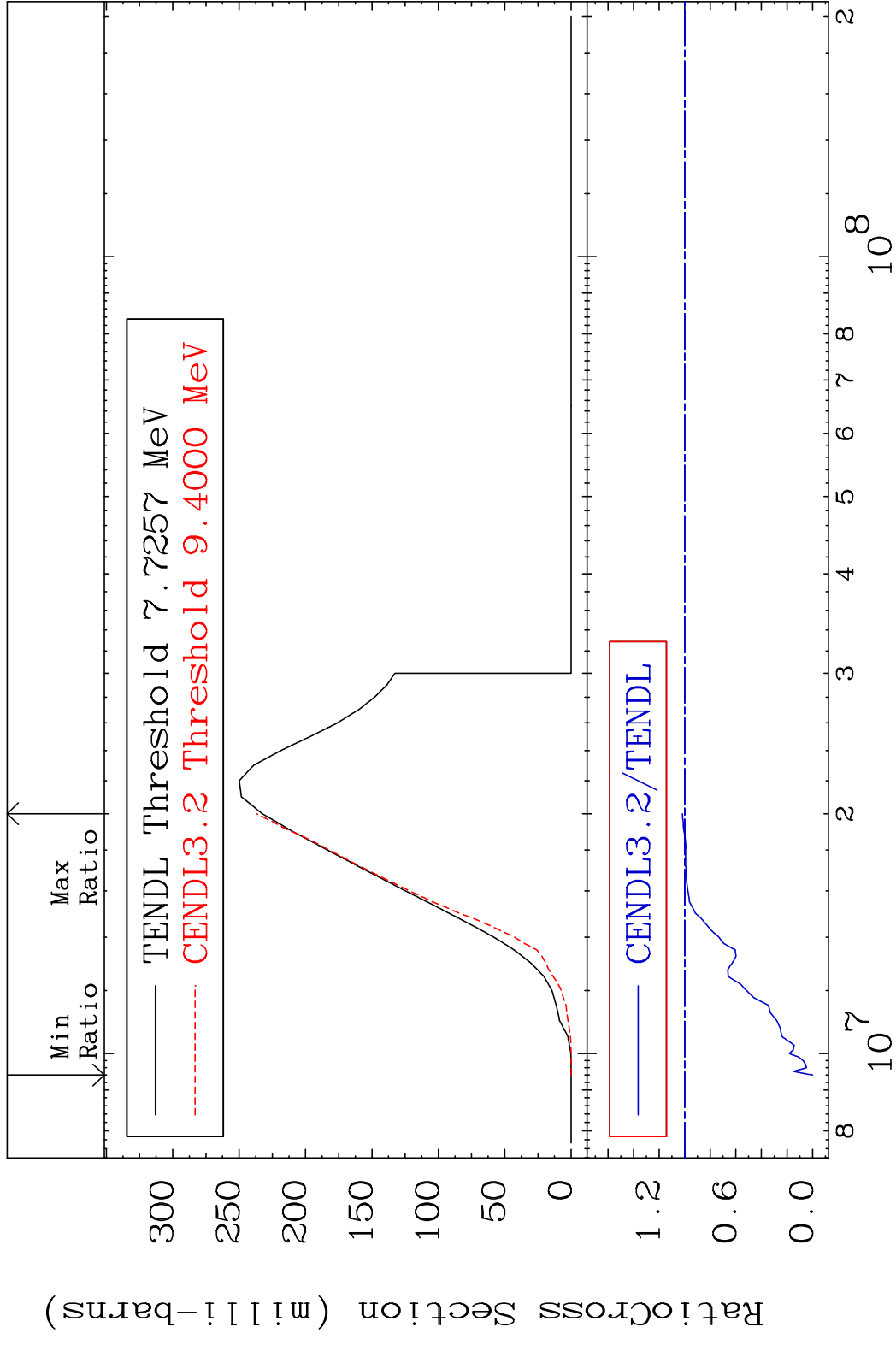


5

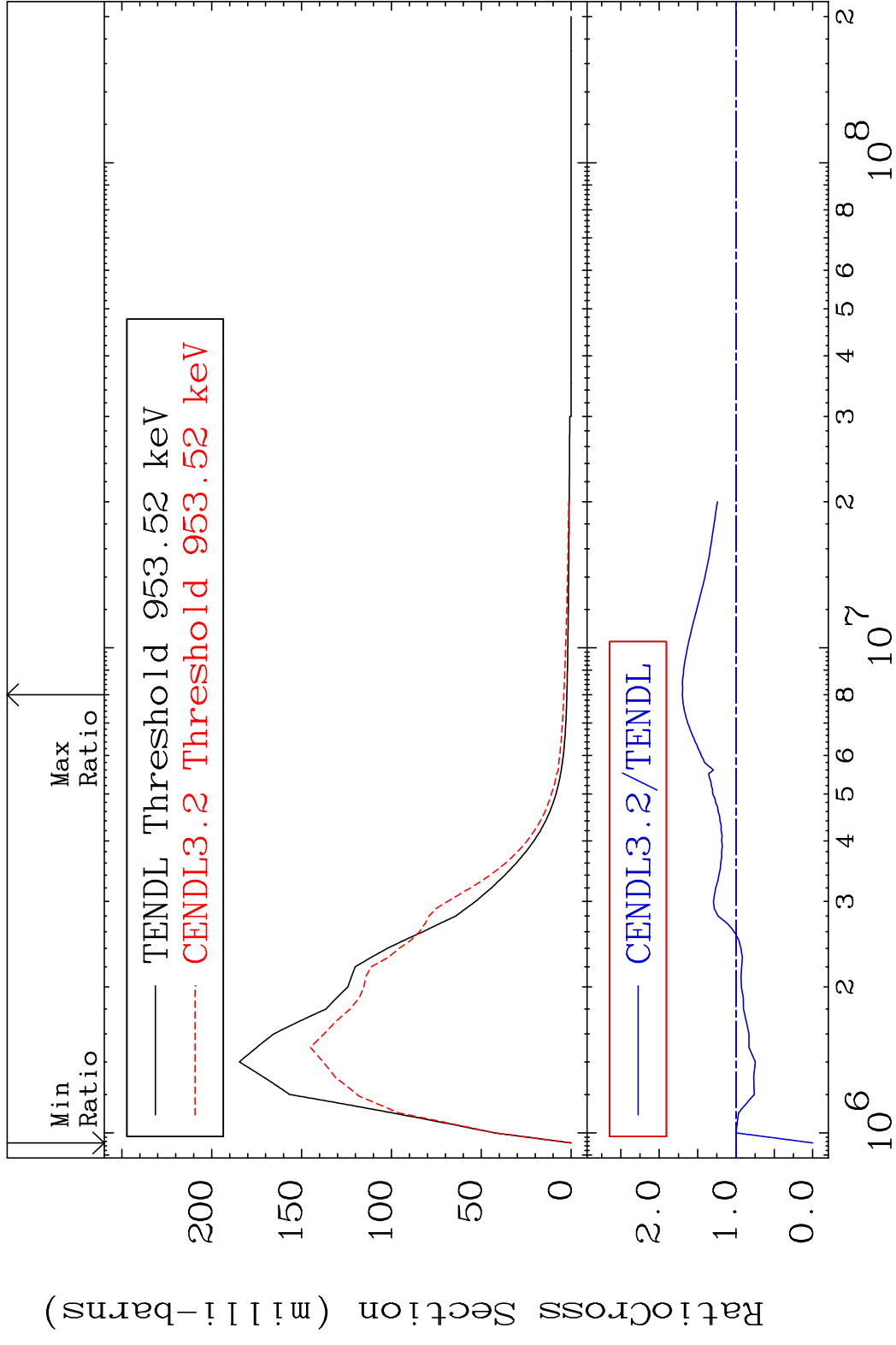
Incident Energy (eV)

42-Mo-93

MAT 4228 (n, n') p 42-Mo-93  
 Cross Section -100.0 To 1.821 %



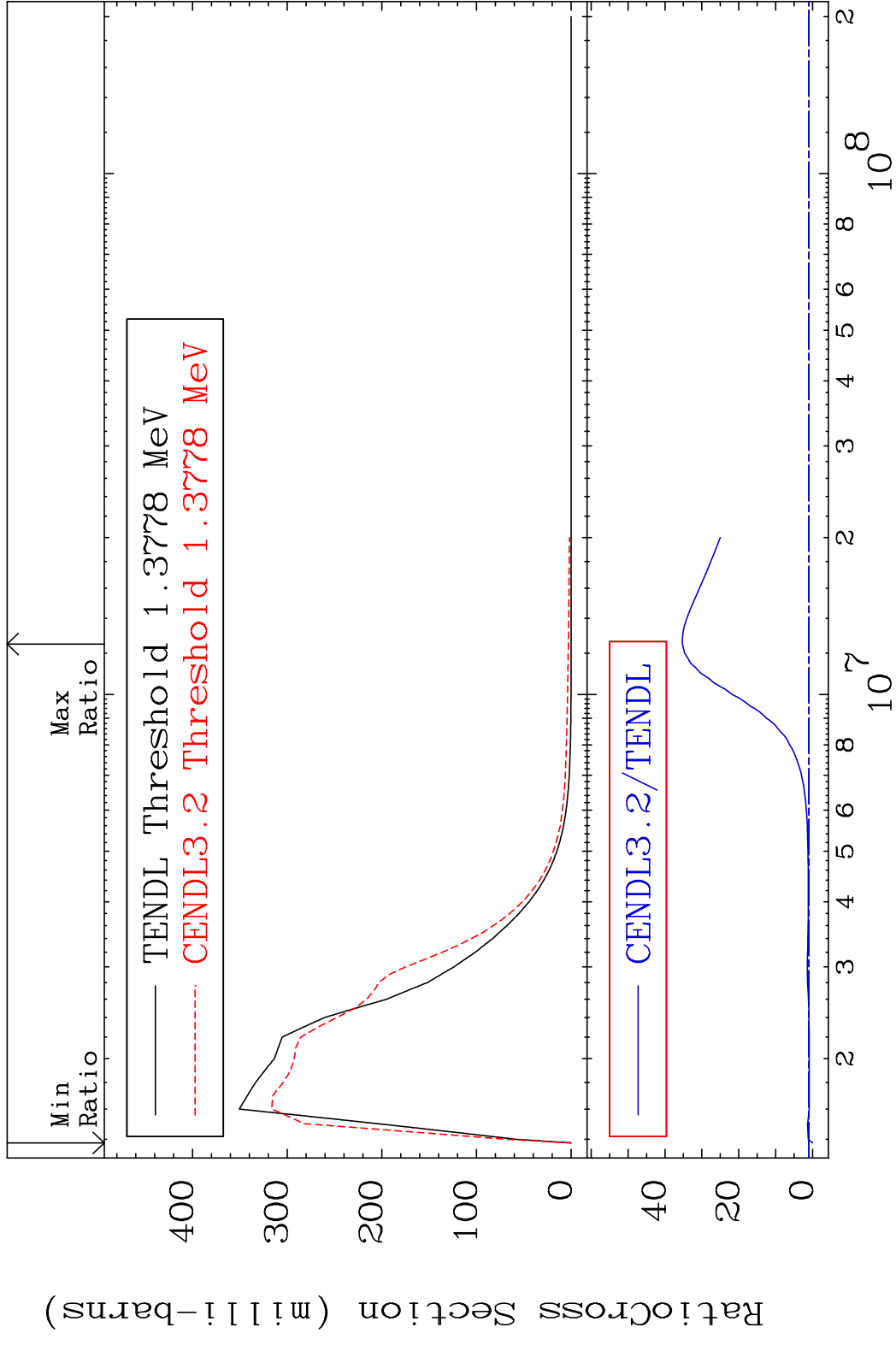
MAT 4228 MT= 51 (n, n') Level 42-Mo-93  
 Cross Section -100.0 To 69.84 %



7 Incident Energy (eV) 42-Mo-93

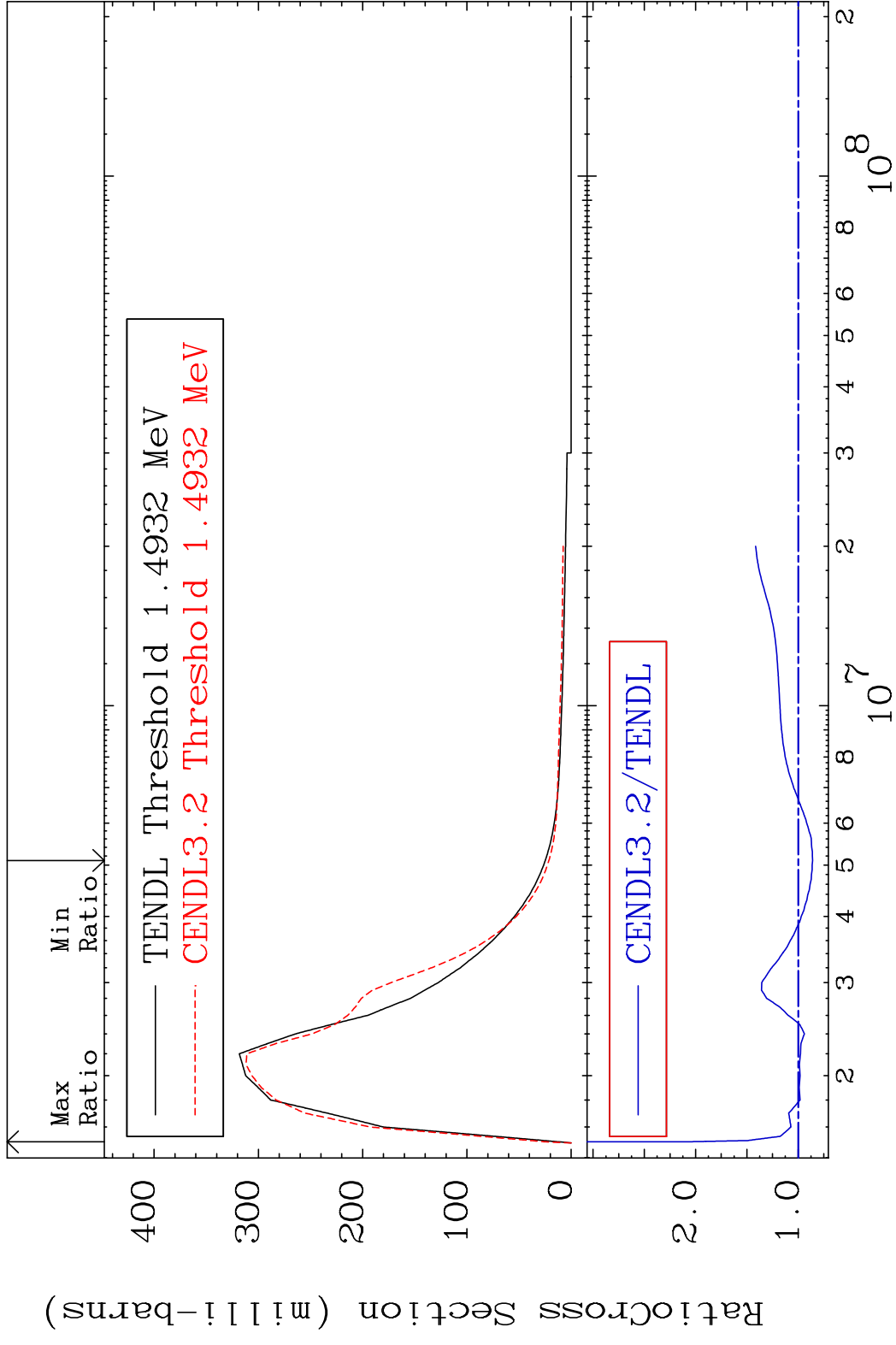


MAT 4228 MT= 52 (n, n') Level 42-Mo-93  
 Cross Section -100.0 To 3428. %



8 Incident Energy (eV) 42-Mo-93

MAT 4228 MT= 53 (n, n') Level 42-Mo-93  
 Cross Section -14.03 To 112.9 %

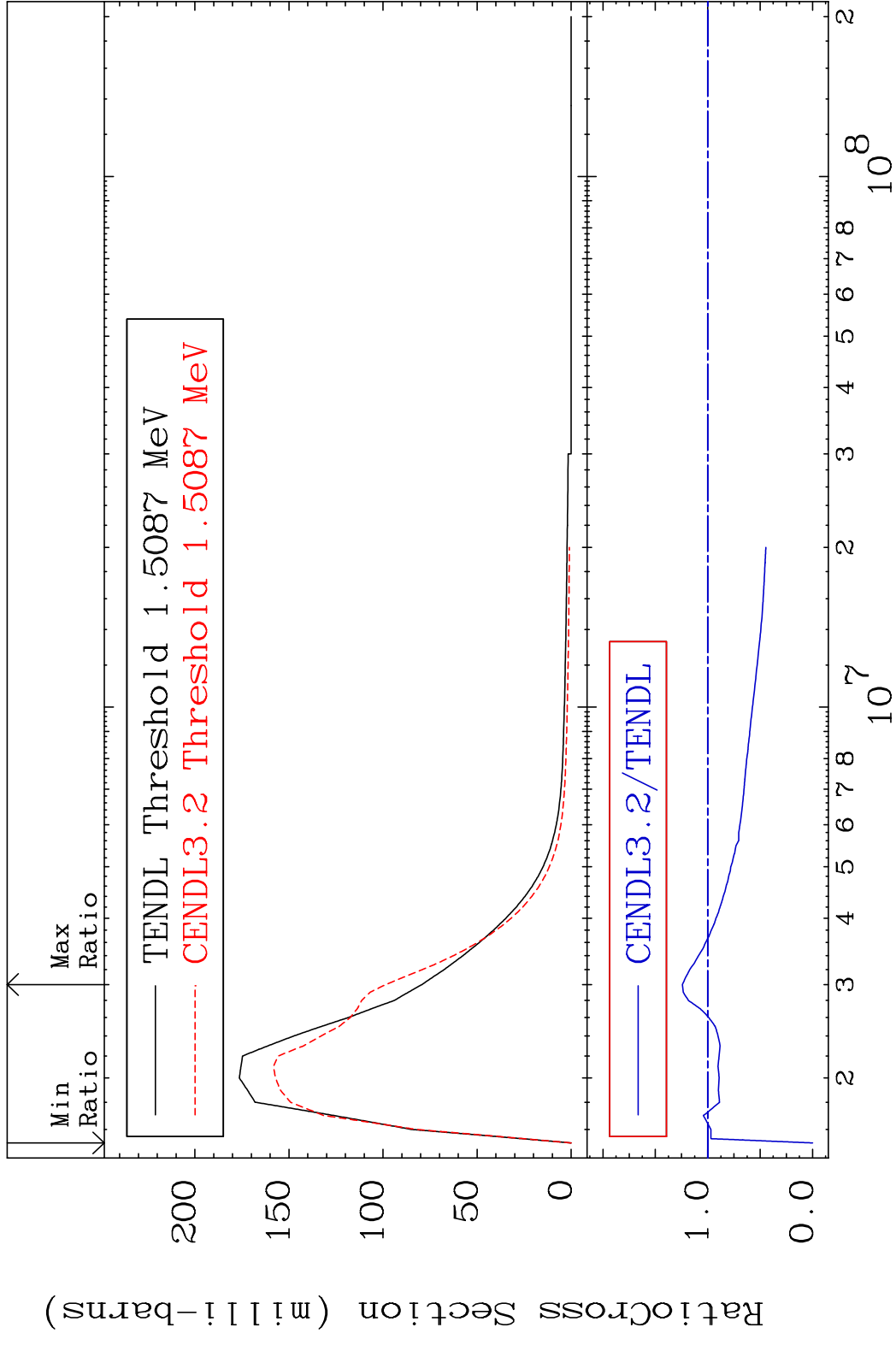


MAT 4228

MT= 54 (n, n') Level

42-Mo-93

Cross Section -100.0 To 24.23 %

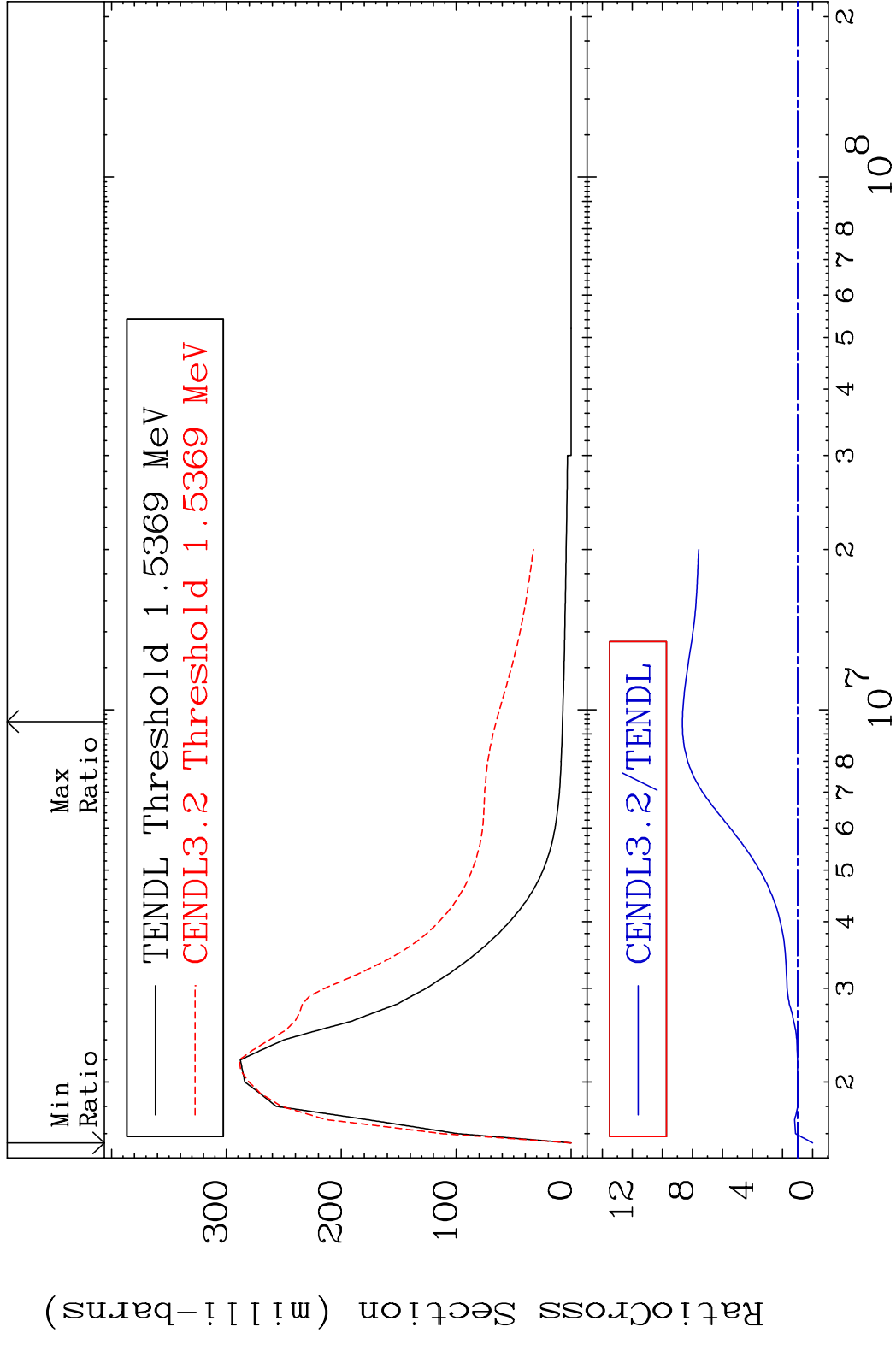


10

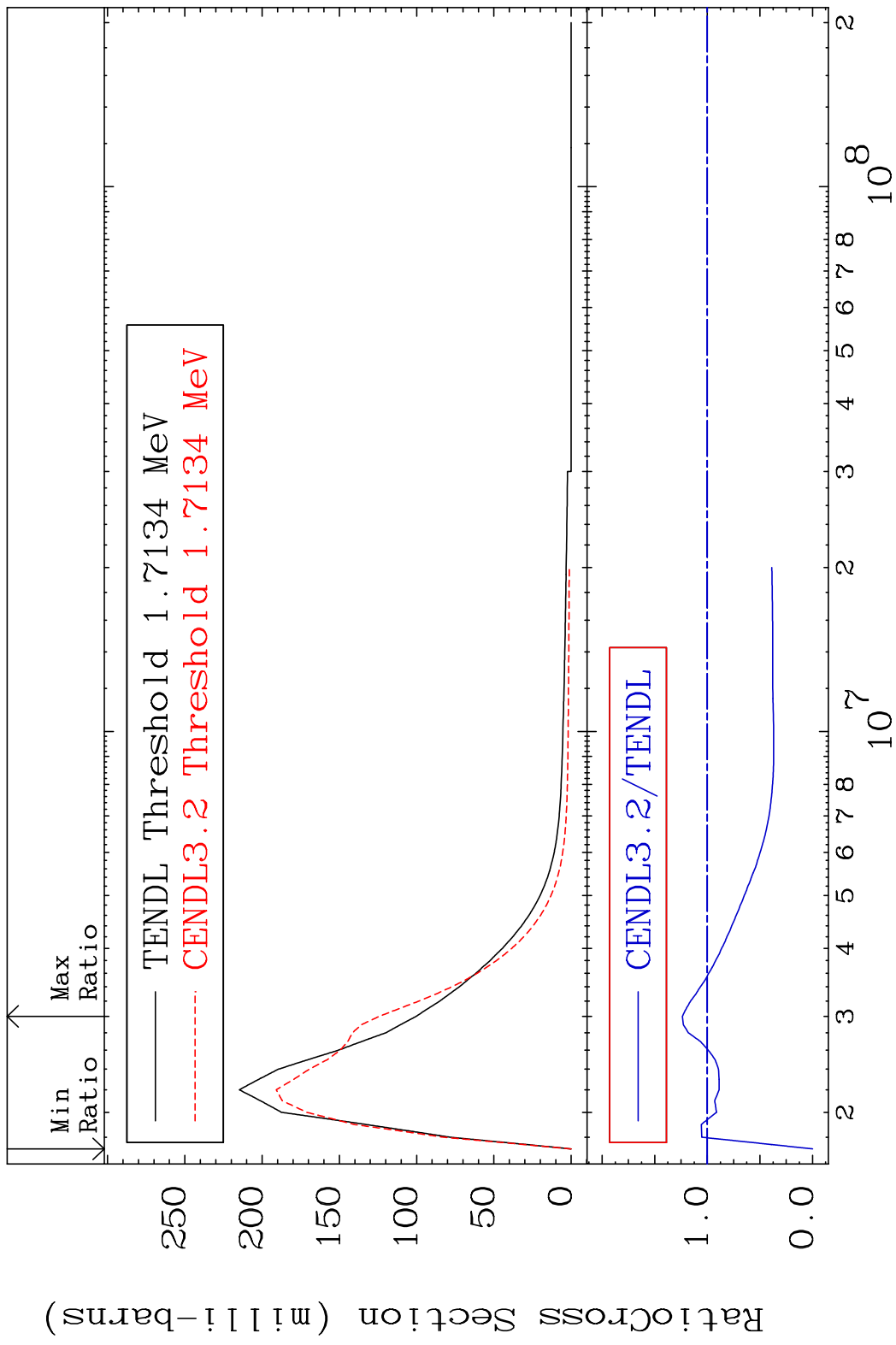
Incident Energy (eV)

42-Mo-93

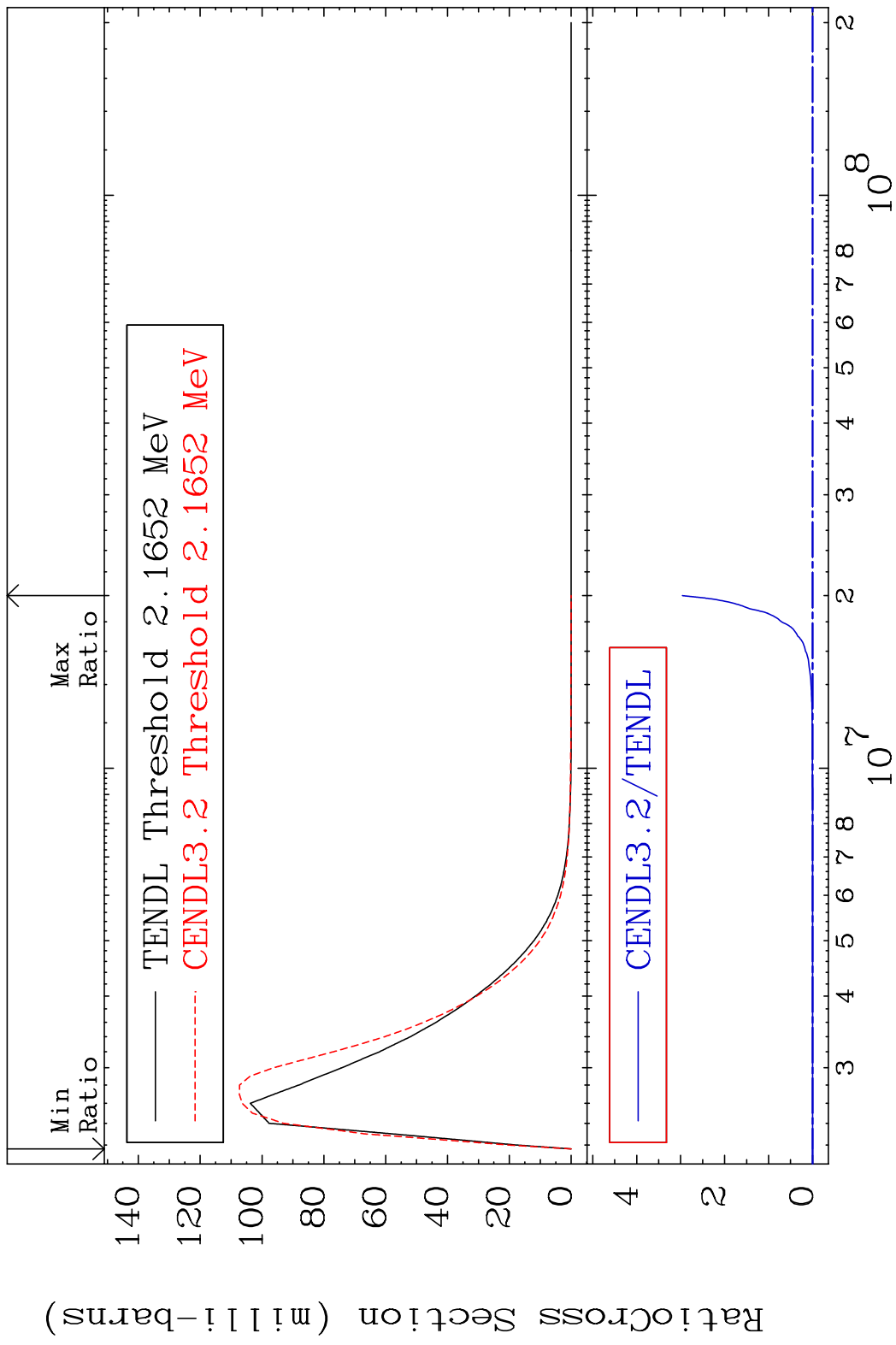
MAT 4228 MT= 55 (n,n') Level 42-Mo-93  
 Cross Section -100.0 To 766.9 %



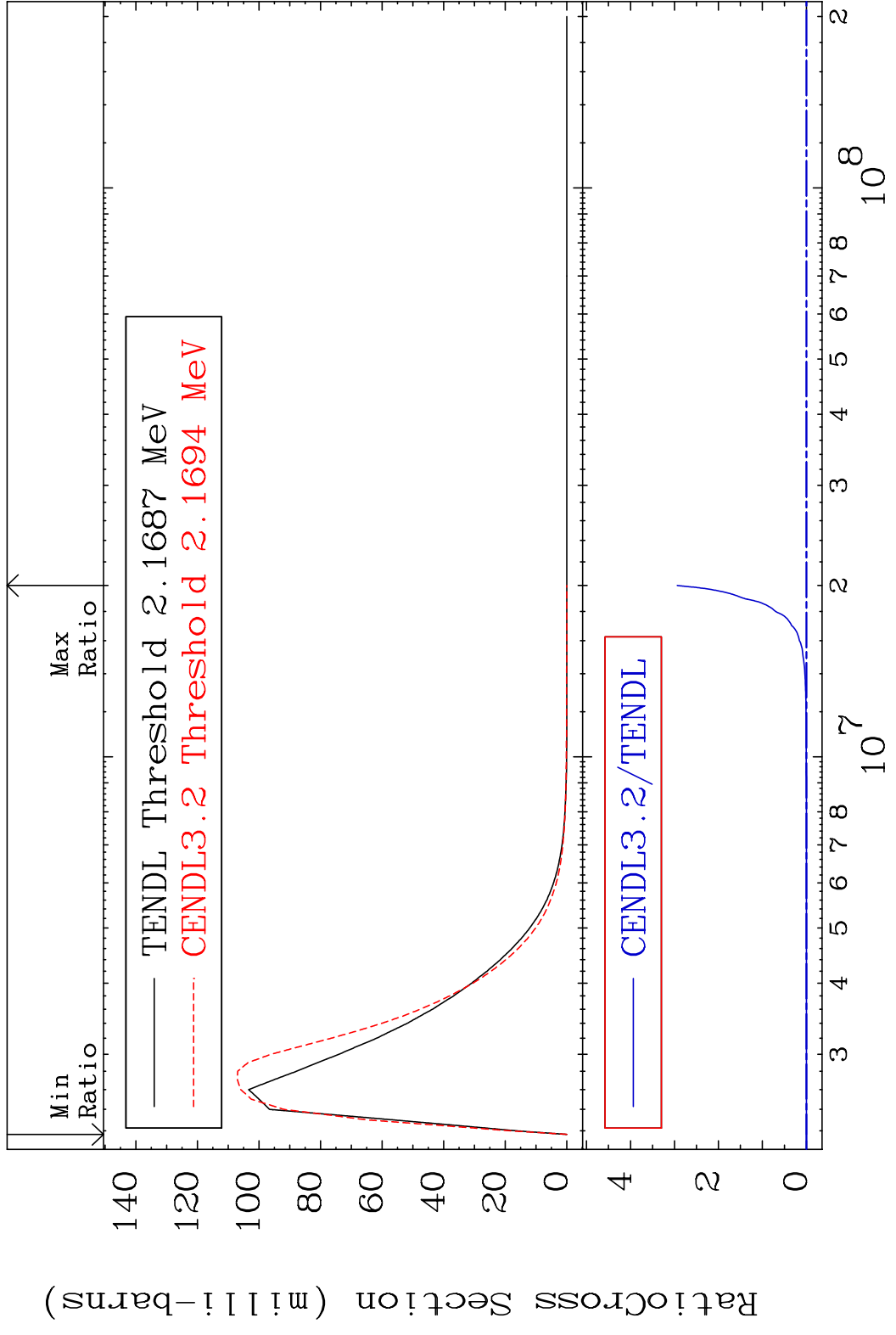
MAT 4228 MT= 56 (n,n') Level 42-Mo-93  
 Cross Section -100.0 To 23.75 %



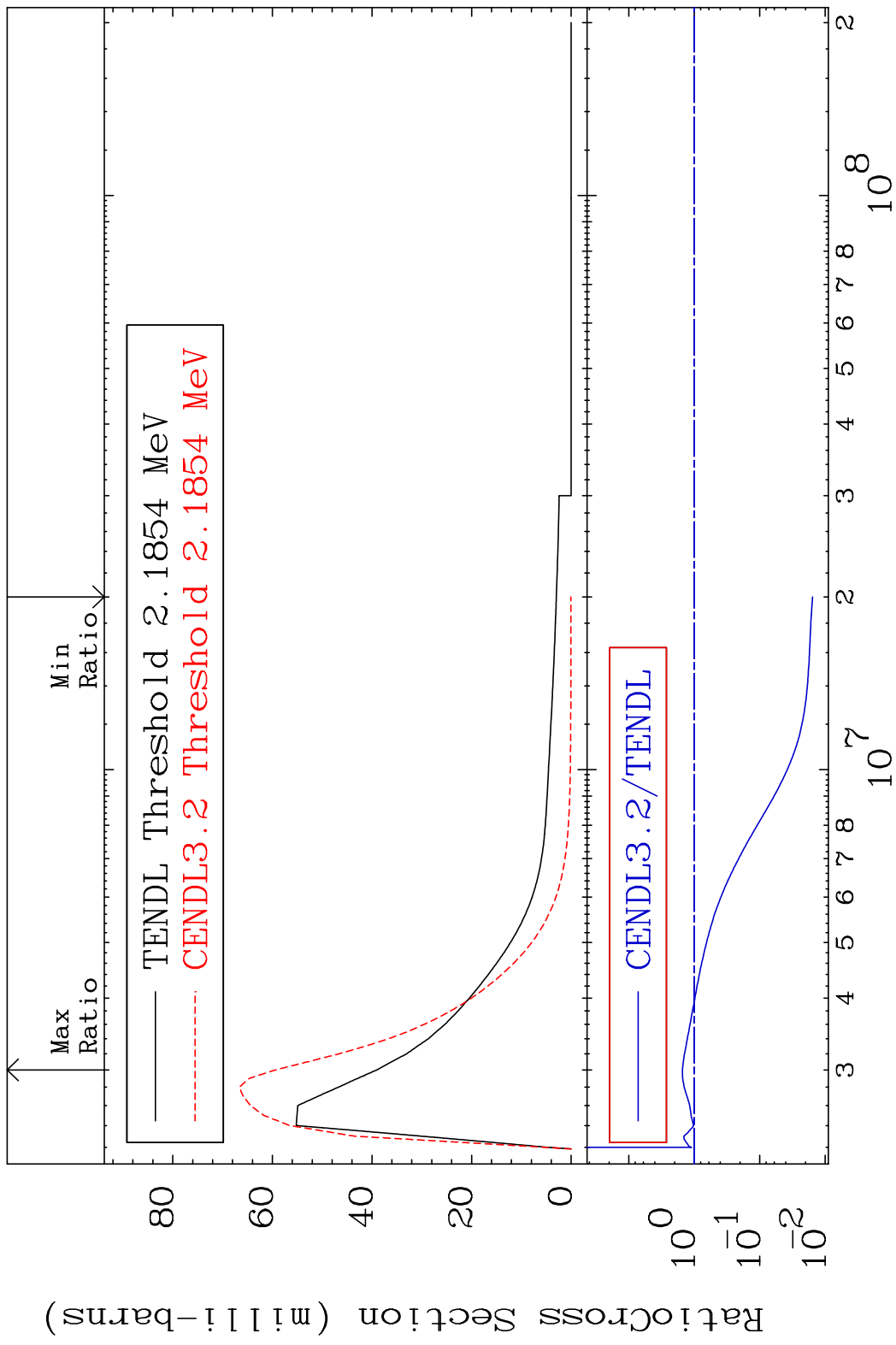
MAT 4228 MT= 57 (n, n') Level 42-Mo-93  
 Cross Section -100.0 To 9999. %



MAT 4228 MT= 58 (n, n') Level 42-Mo-93  
 Cross Section -100.0 To 9999. %



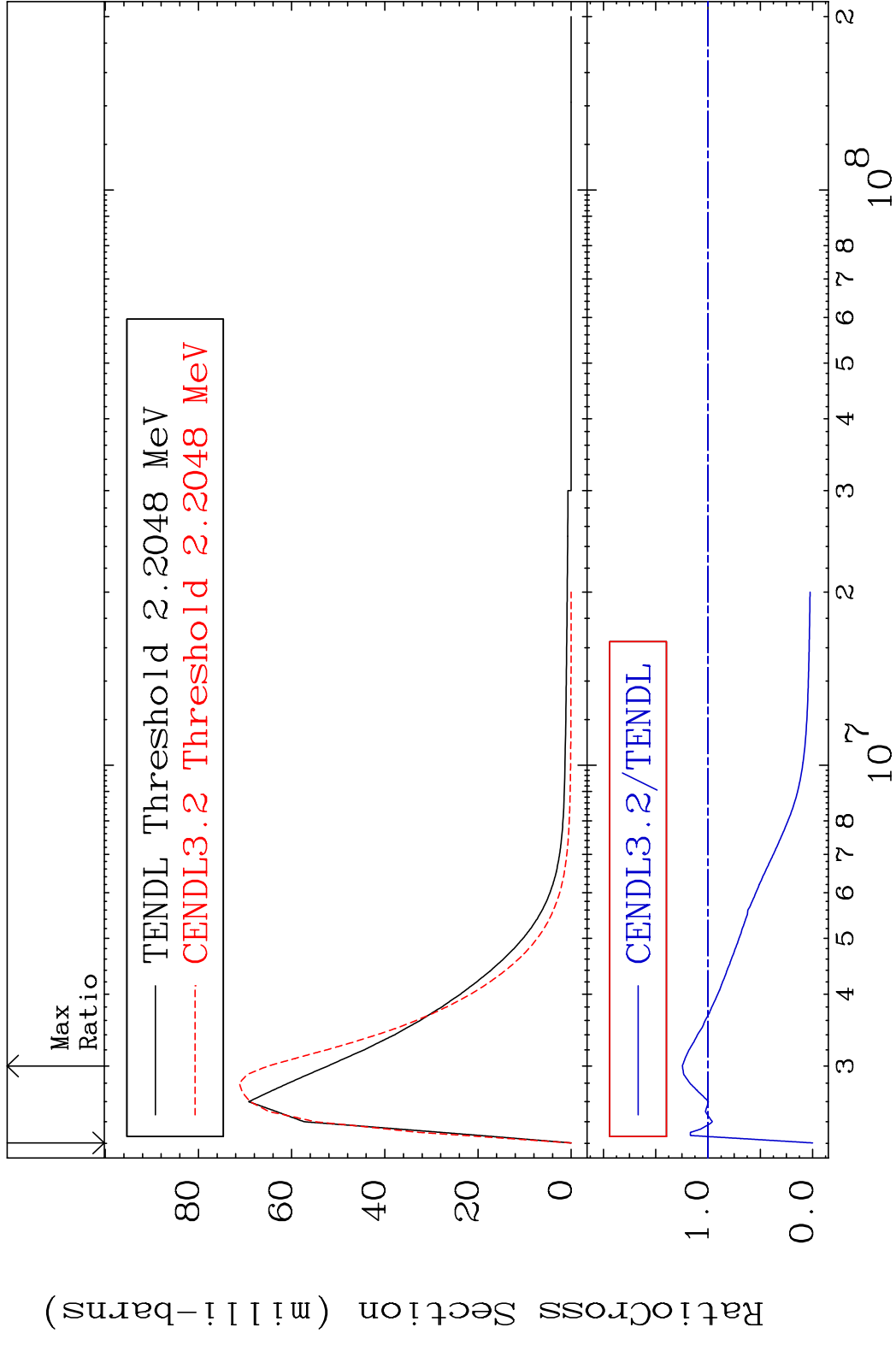
MAT 4228 MT= 59 (n, n') Level 42-Mo-93  
 Cross Section -98.44 To 52.14 %



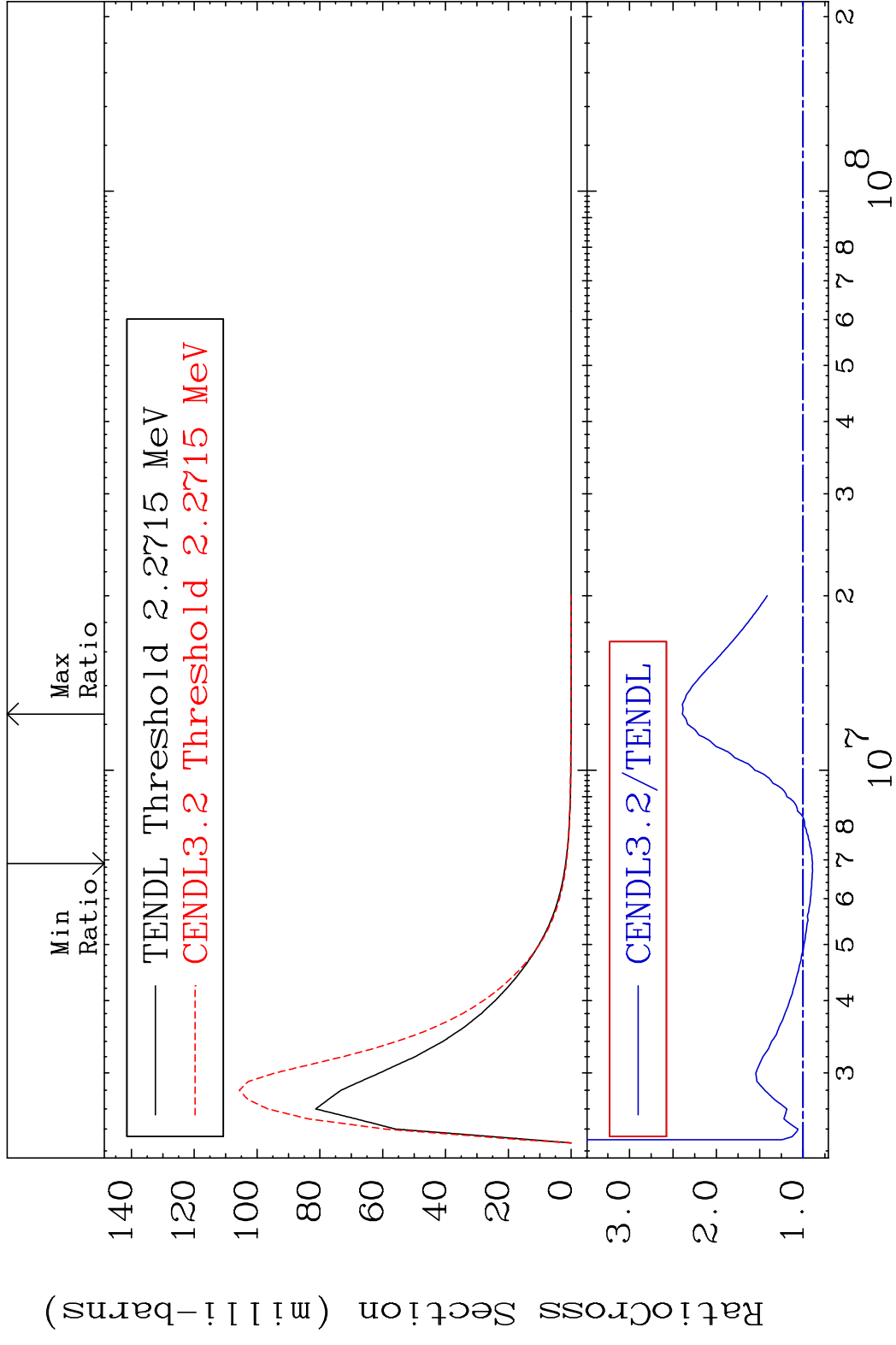
15 42-Mo-93



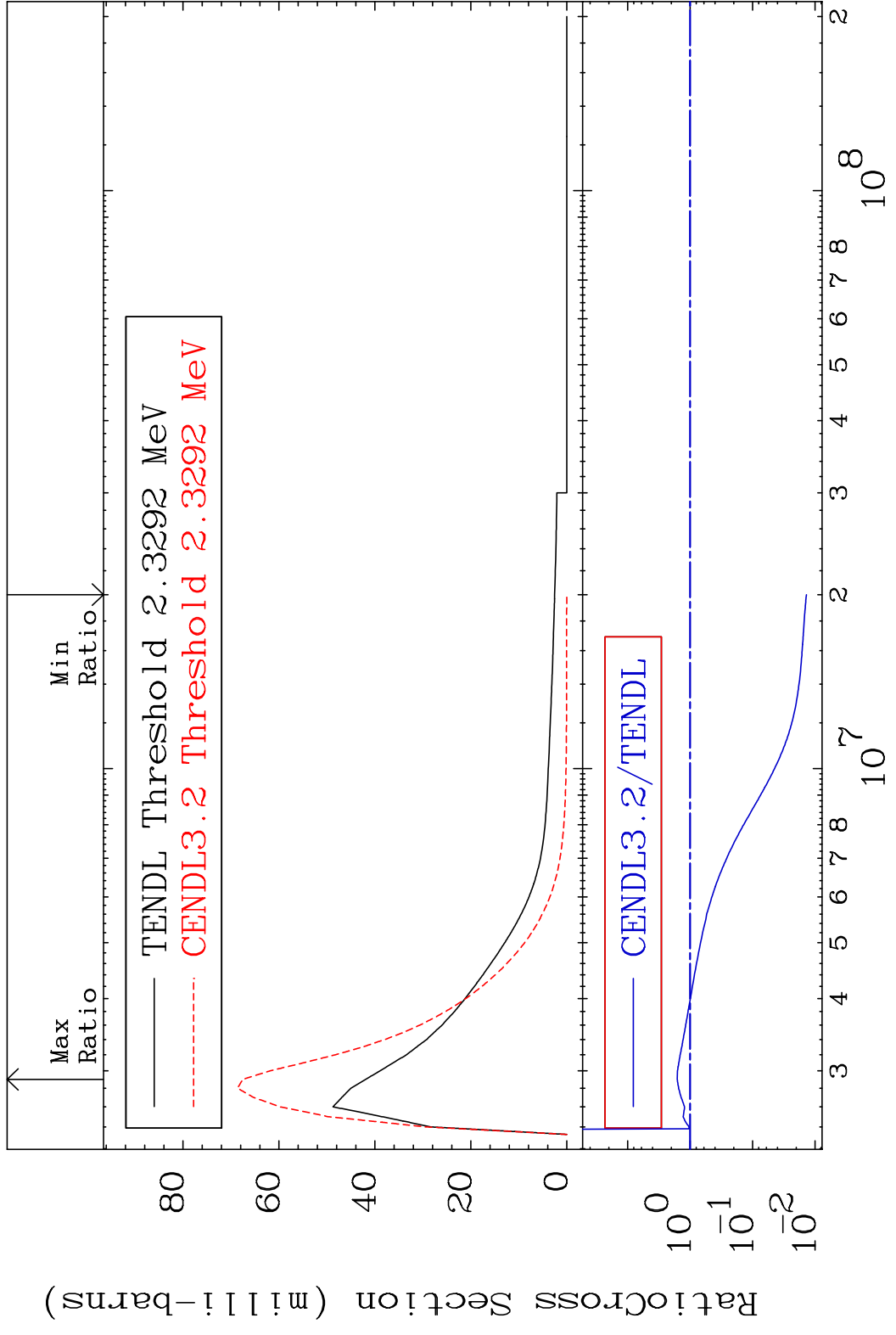
MAT 4228 MT= 60 (n, n') Level 42-Mo-93  
 Cross Section -100.0 To 24.52 %



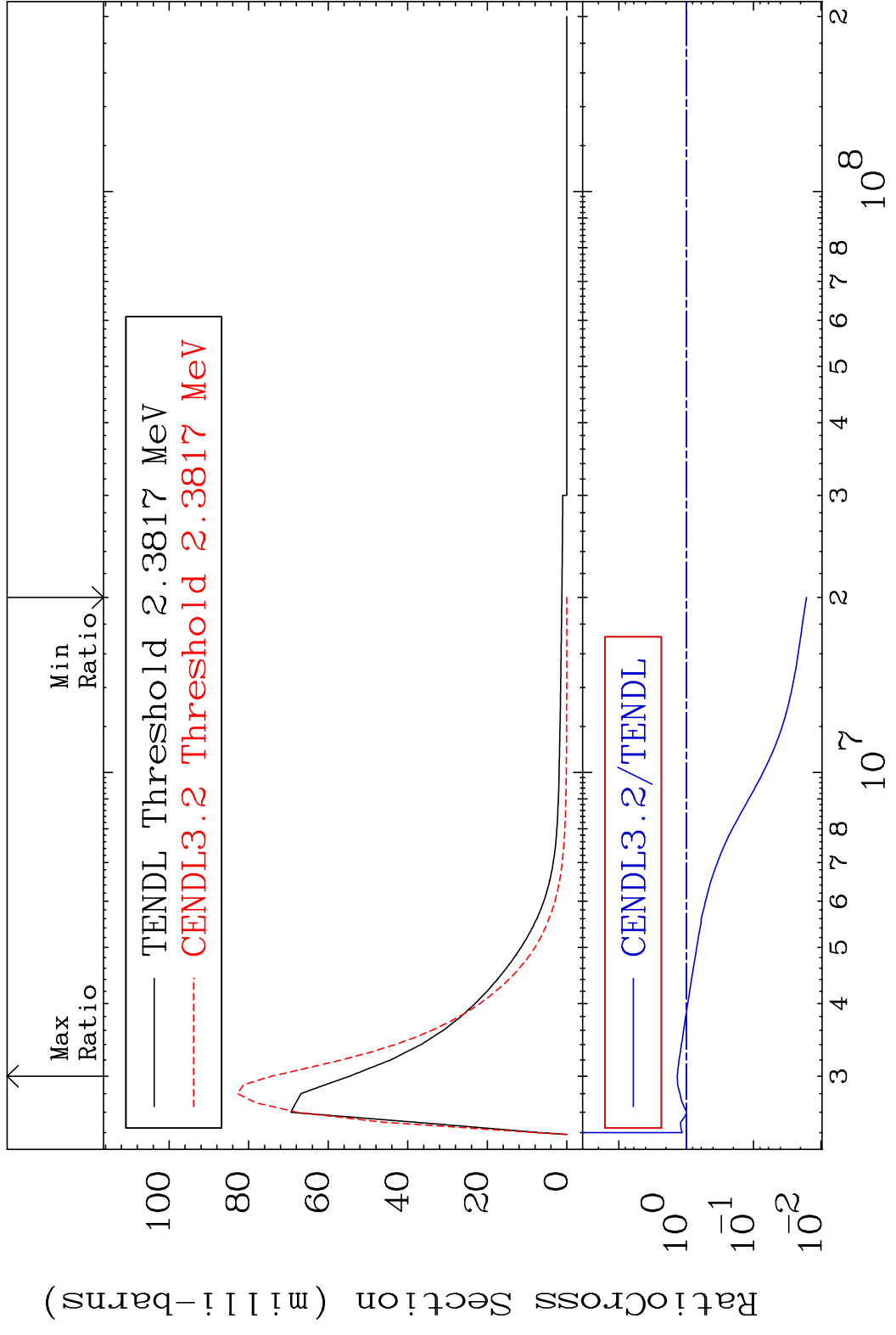
MAT 4228 MT= 61 (n,n') Level 42-Mo-93  
 Cross Section -10.88 To 139.1 %



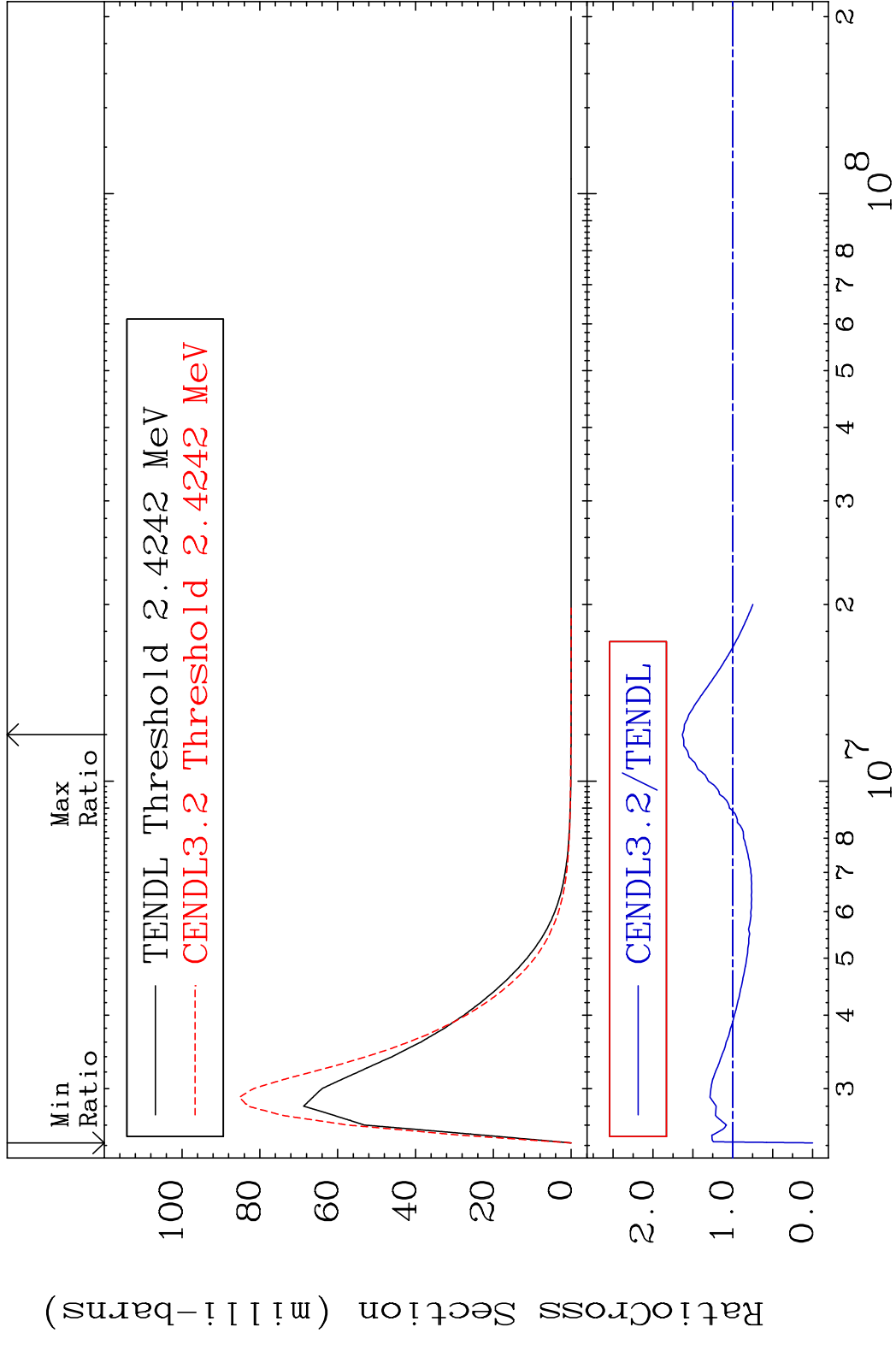
MAT 4228 MT= 62 (n,n') Level 42-Mo-93  
 Cross Section -98.63 To 61.01 %



MAT 4228 MT= 63 (n, n') Level 42-Mo-93  
 Cross Section -98.36 To 35.98 %

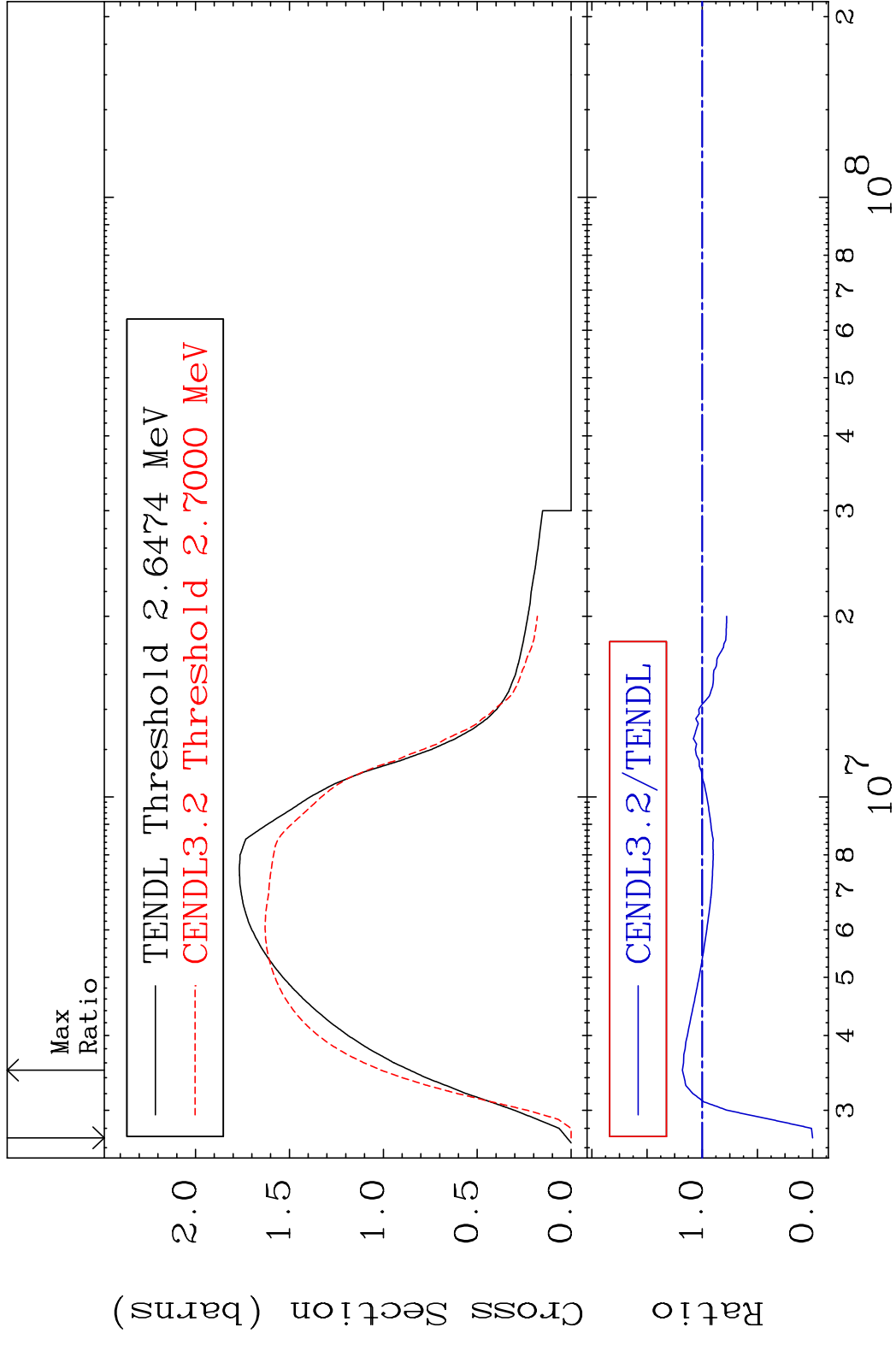


MAT 4228 MT= 64 (n,n') Level 42-Mo-93  
 Cross Section -100.0 To 63.21 %



20 Incident Energy (eV) 42-Mo-93

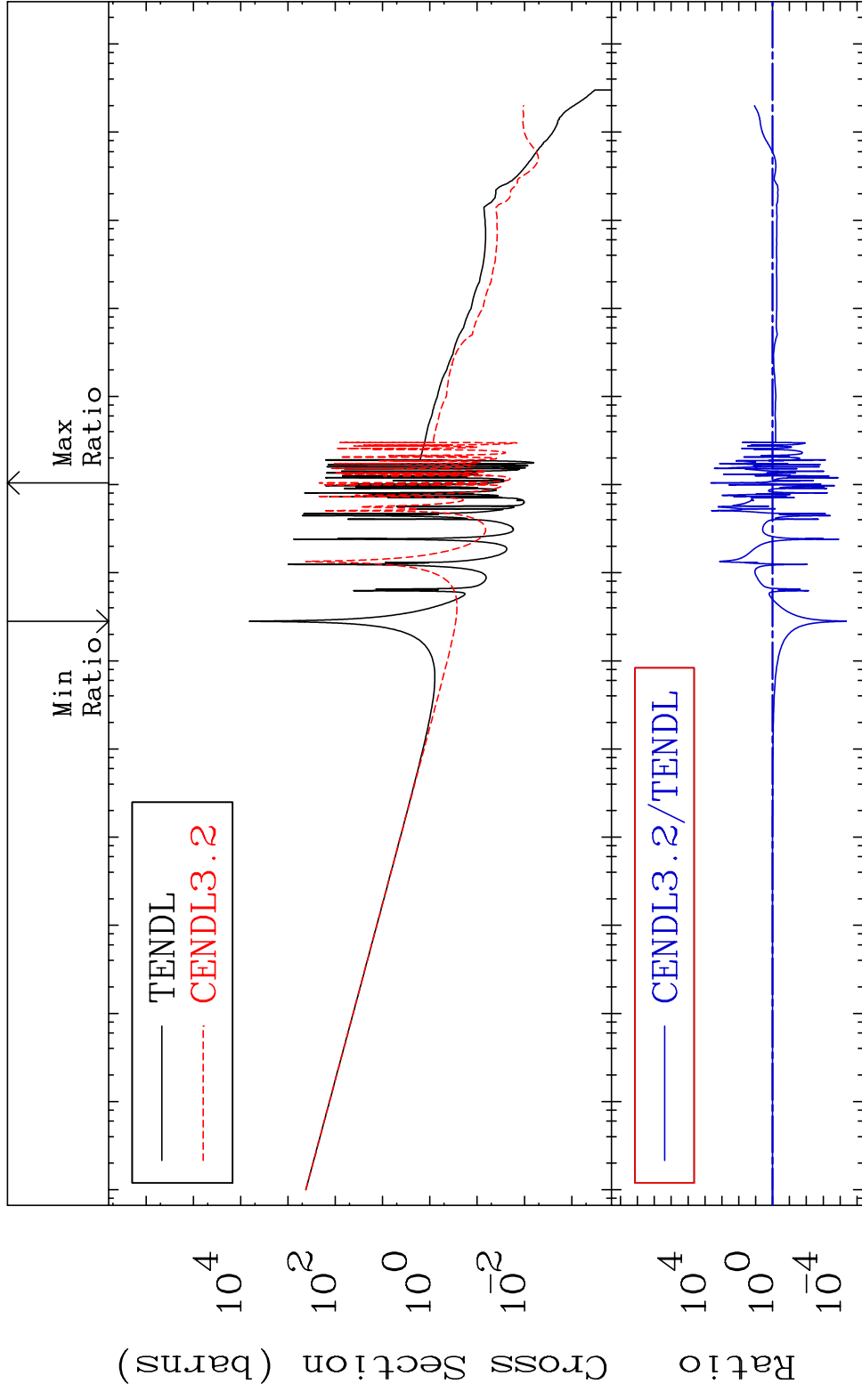
MAT 4228 (n,n') Continuum 42-Mo-93  
 Cross Section -100.0 To 17.93 %



MAT 4228

(n,  $\gamma$ )  
Cross Section -100.0 To 9999. %

42-Mo-93



22

Incident Energy (eV)

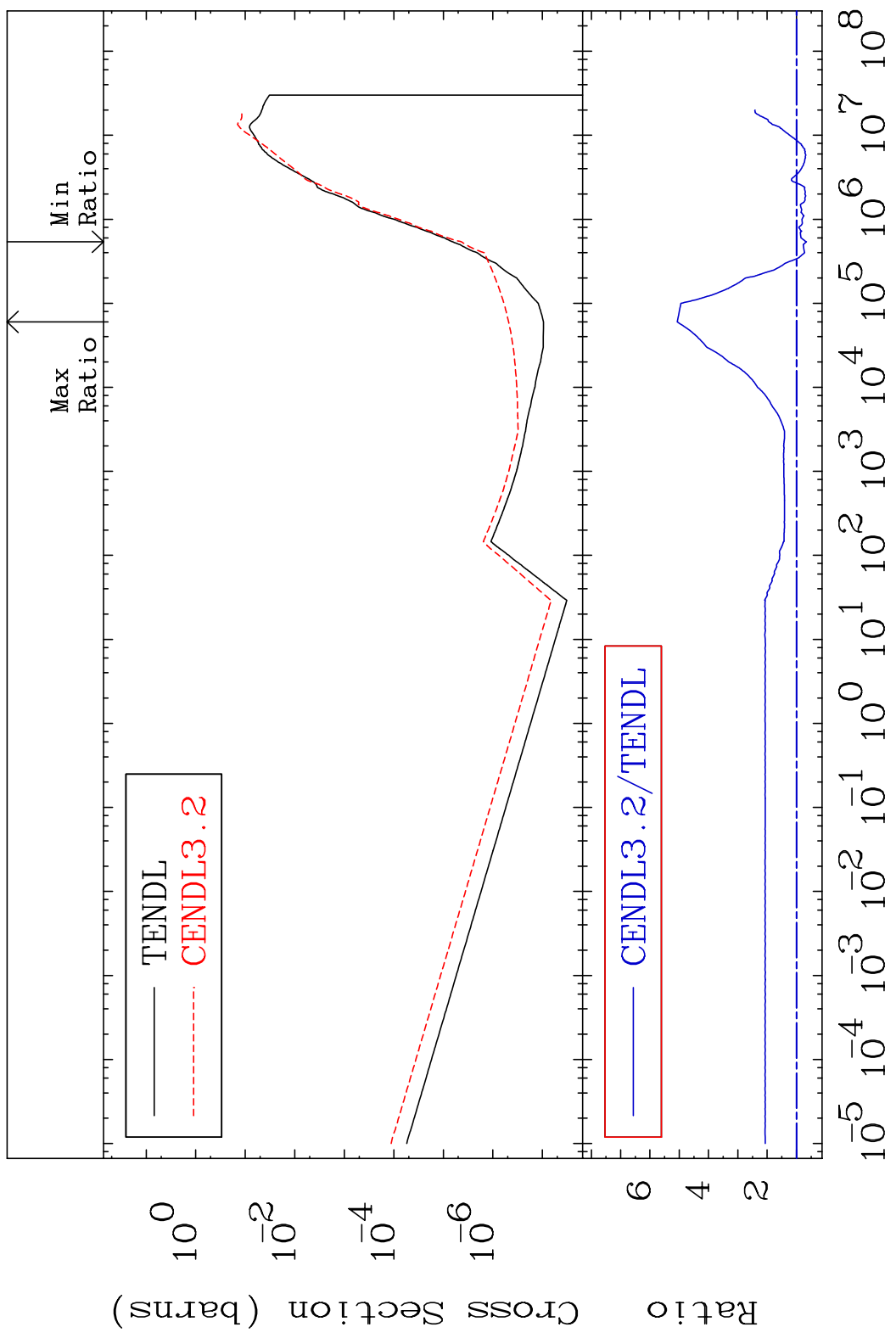
42-Mo-93

MAT 4228

(n, p)

42-Mo-93

Cross Section -33.92 To 407.0 %



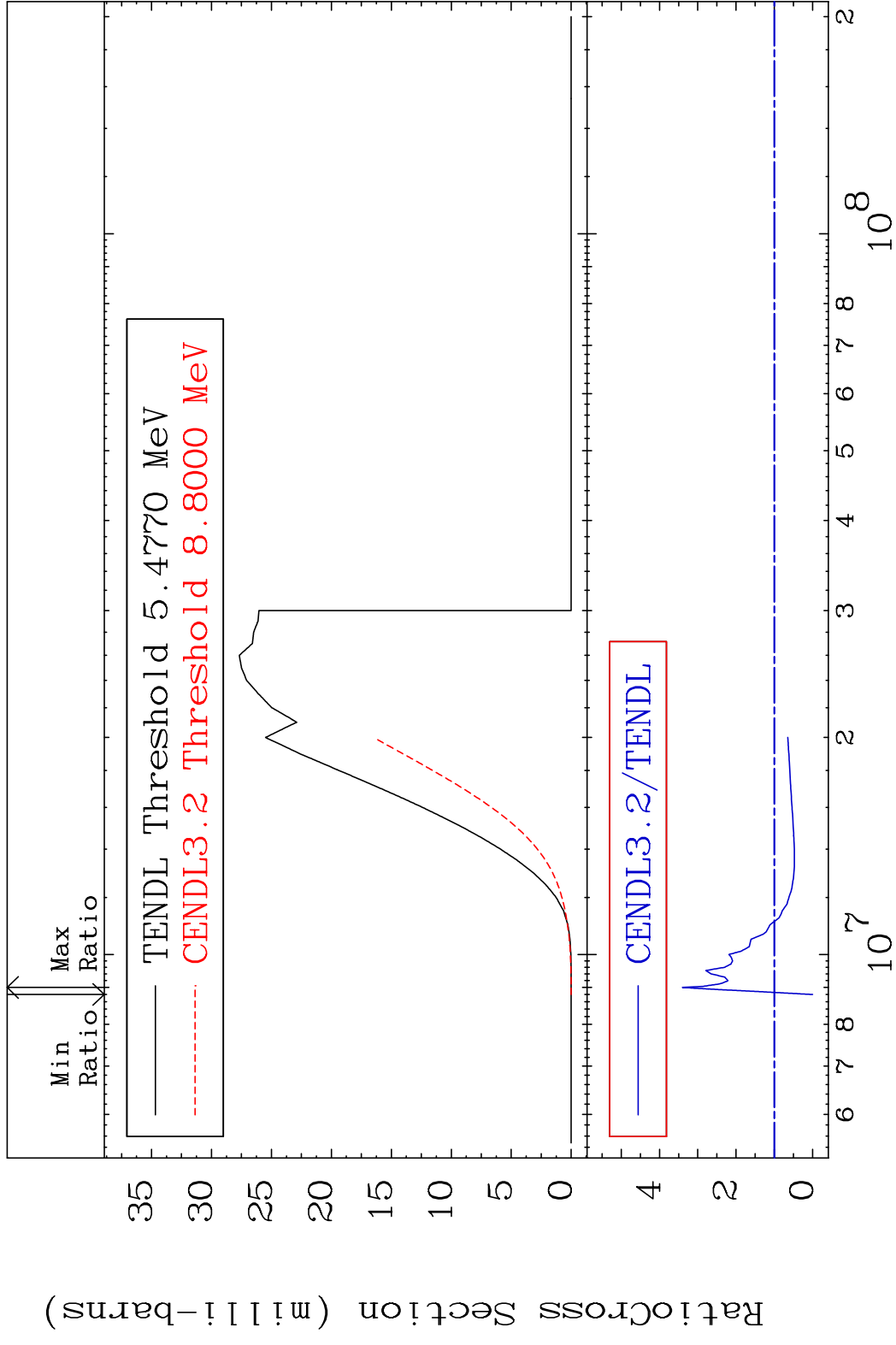
23

Incident Energy (eV)

42-Mo-93



MAT 4228 (n,d) 42-Mo-93  
 Cross Section -100.0 To 240.3 %

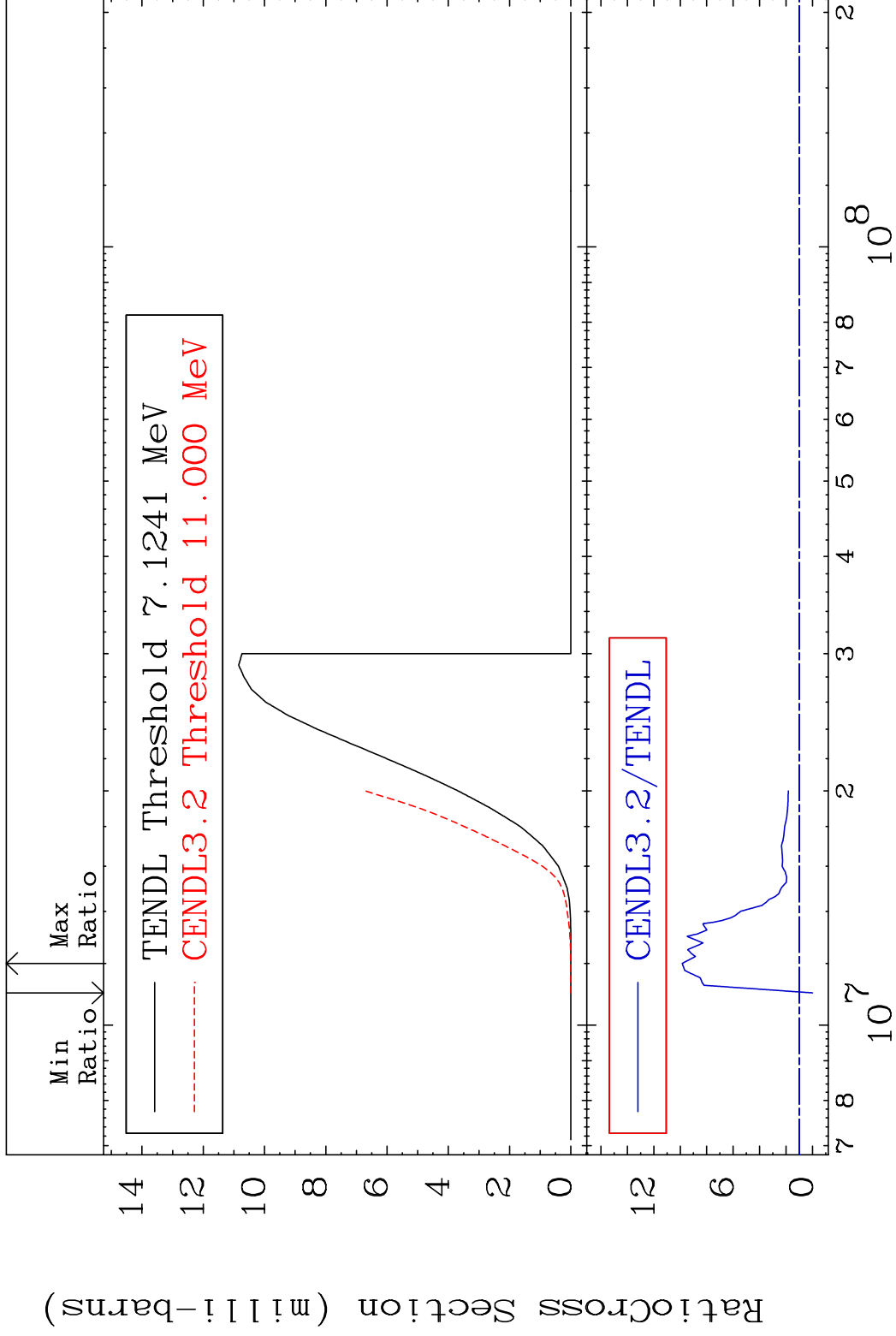


MAT 4228

(n, t)

42-Mo-93

Cross Section -100.0 To 885.7 %



25

Incident Energy (eV)

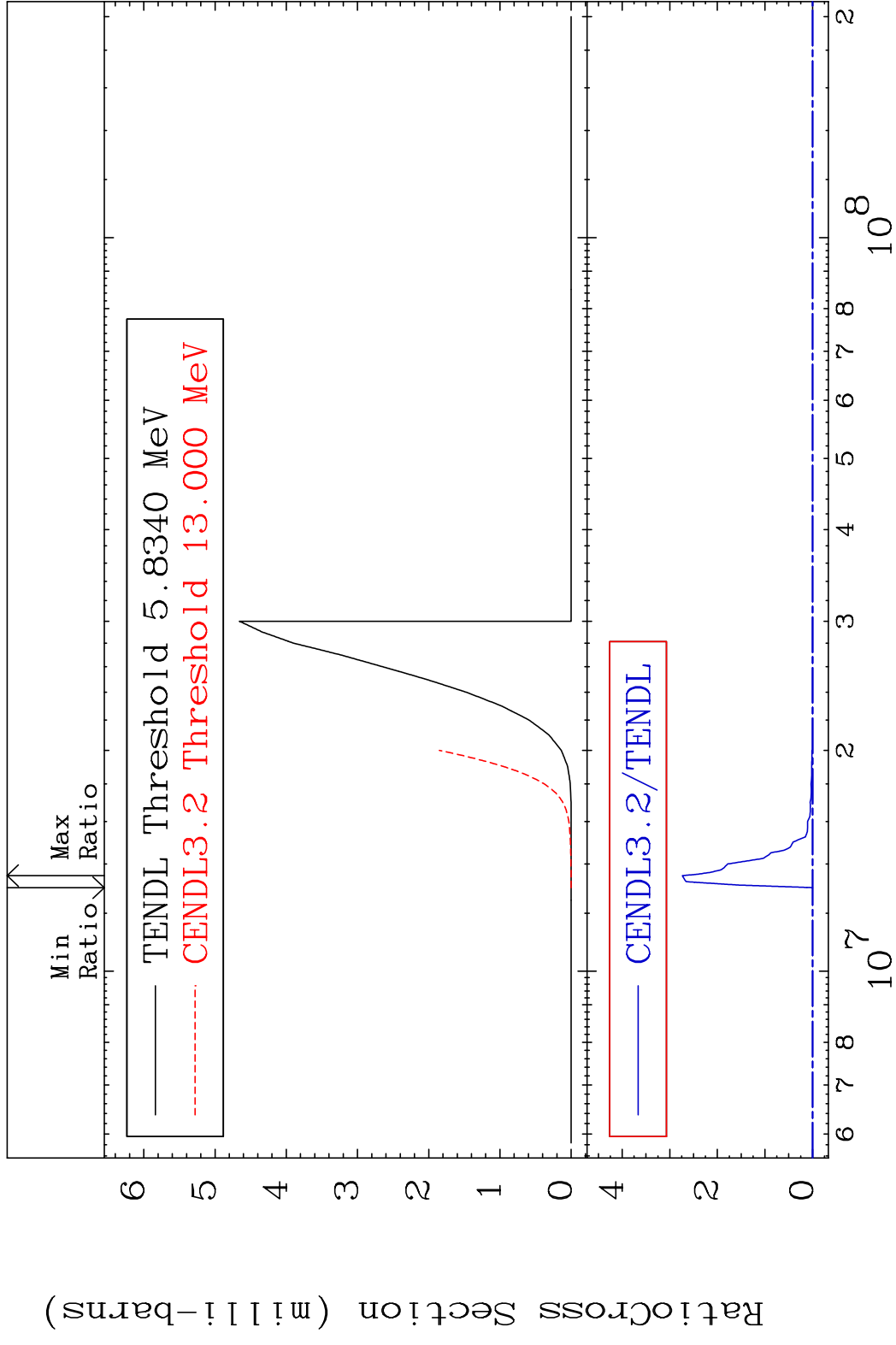
42-Mo-93

MAT 4228

(n, He-3)

42-Mo-93

Cross Section -100.0 To 9999. %



26

Incident Energy (eV)

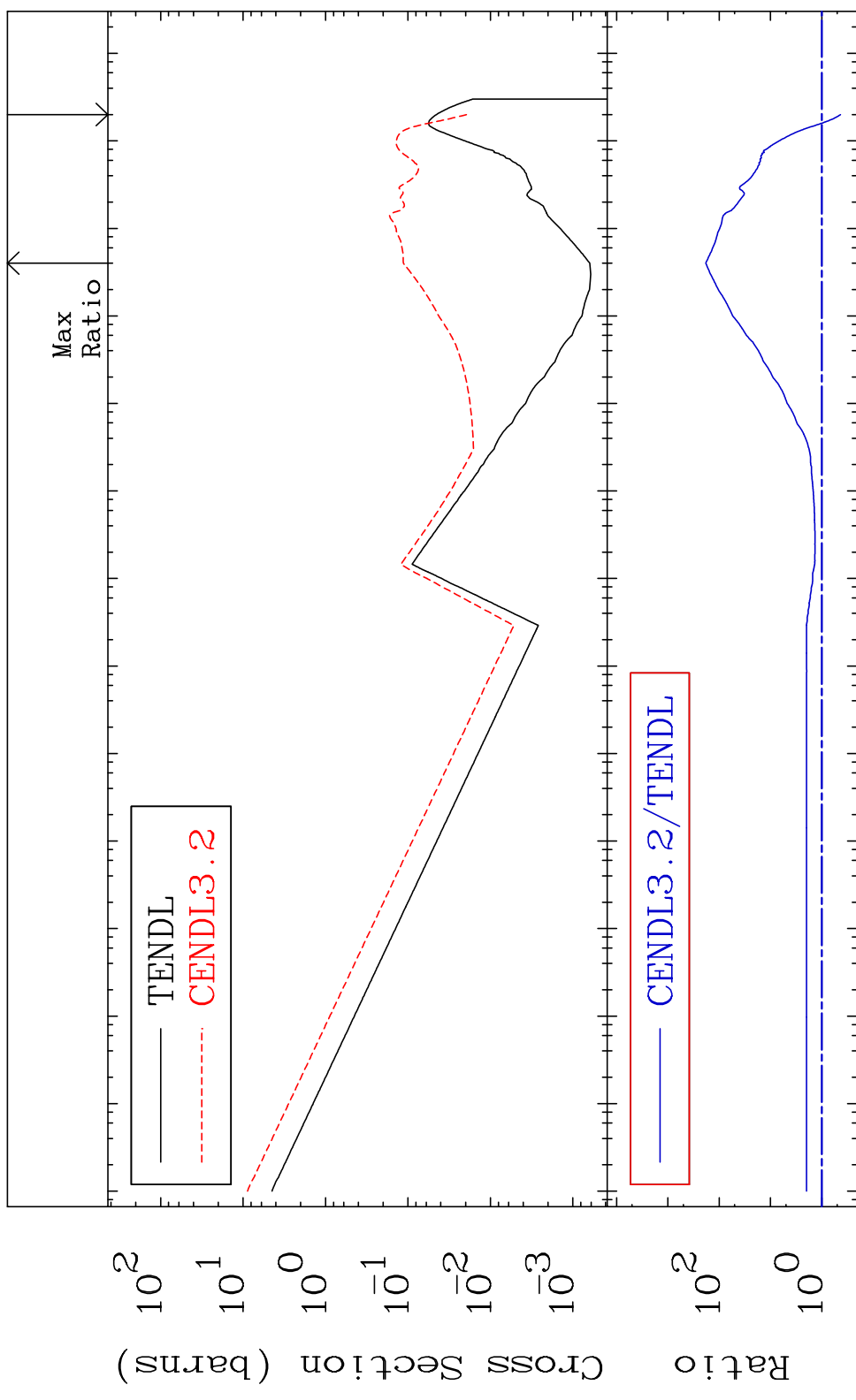
42-Mo-93

MAT 4228

(n,  $\alpha$ )

42-Mo-93

Cross Section -56.79 To 9999. %

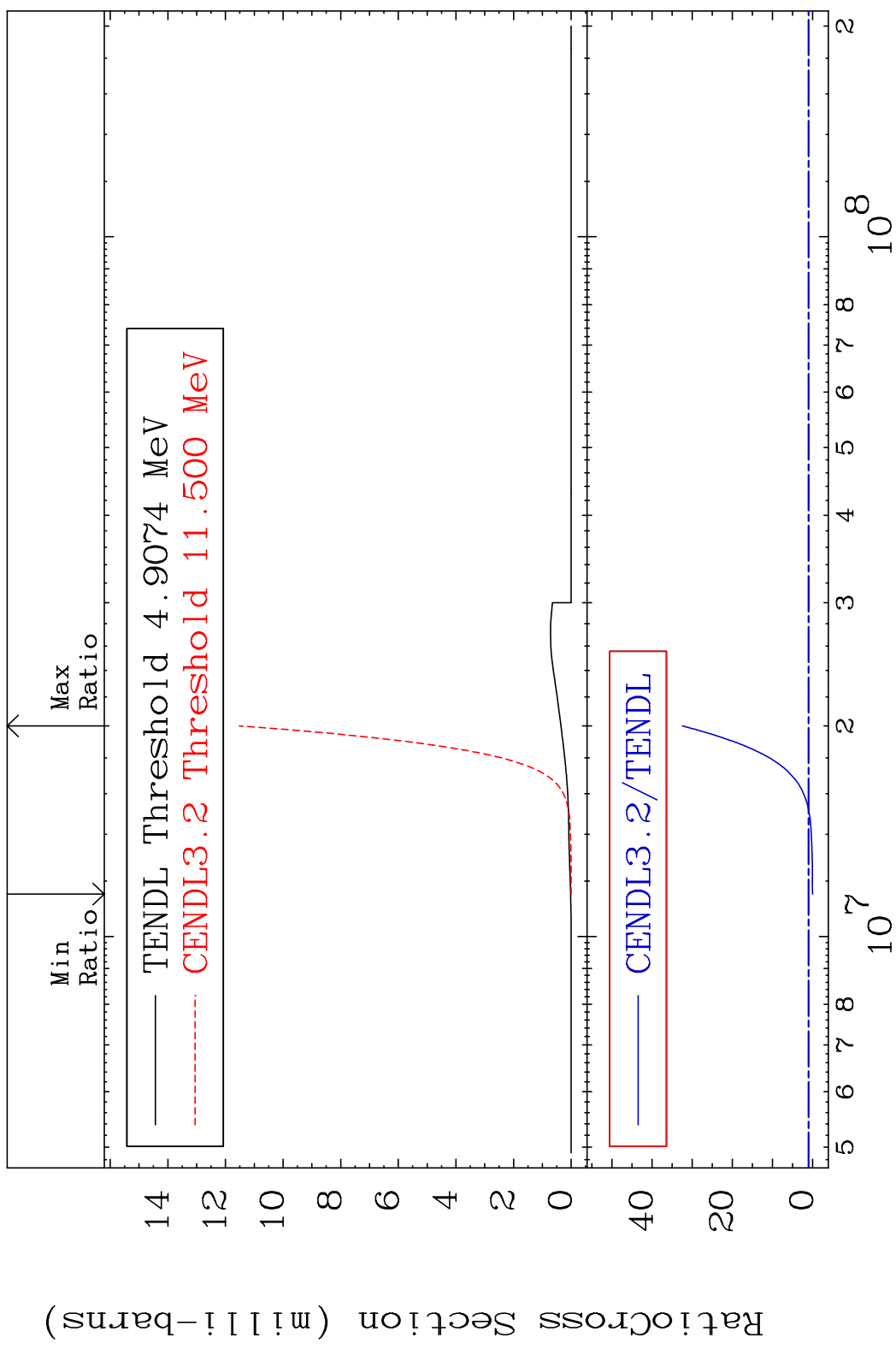


MAT 4228

(n,2p)

42-Mo-93

Cross Section -100.0 To 3146. %

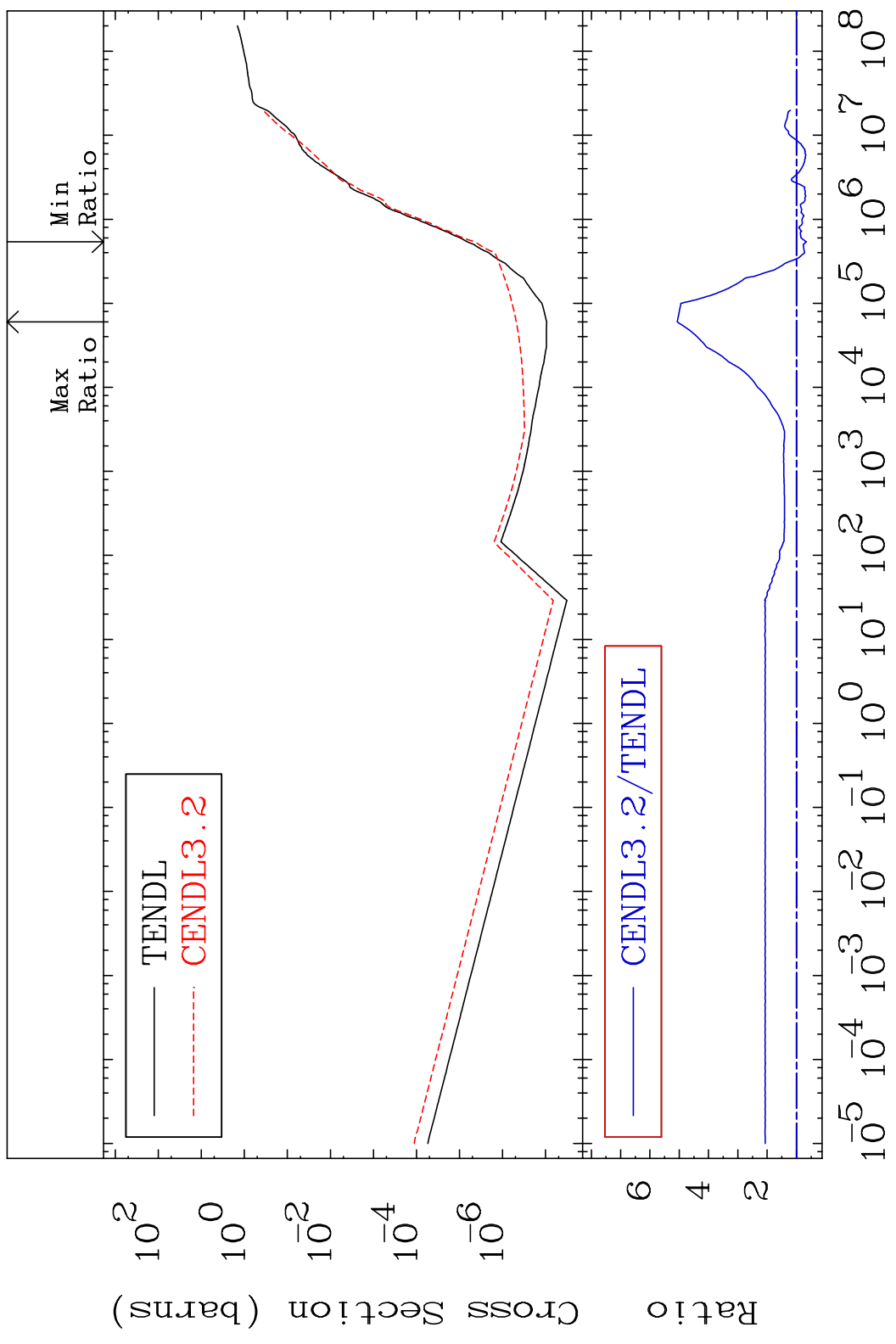


MAT 4228

Hydrogen Production

42-Mo-93

Cross Section -33.92 To 407.0 %



29

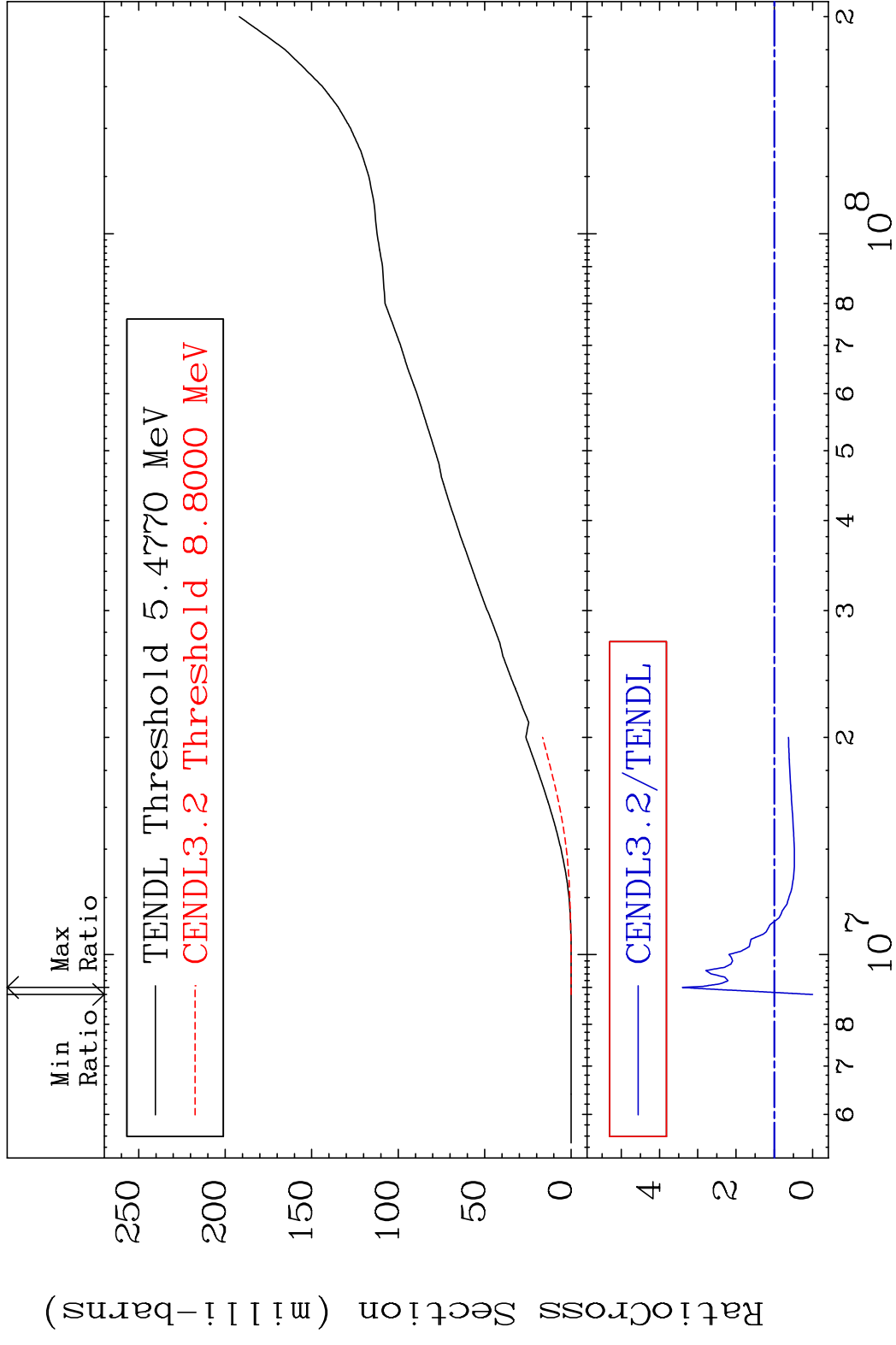
Incident Energy (eV)

42-Mo-93

MAT 4228

Deuterium Production 42-Mo-93

Cross Section -100.0 To 240.3 %

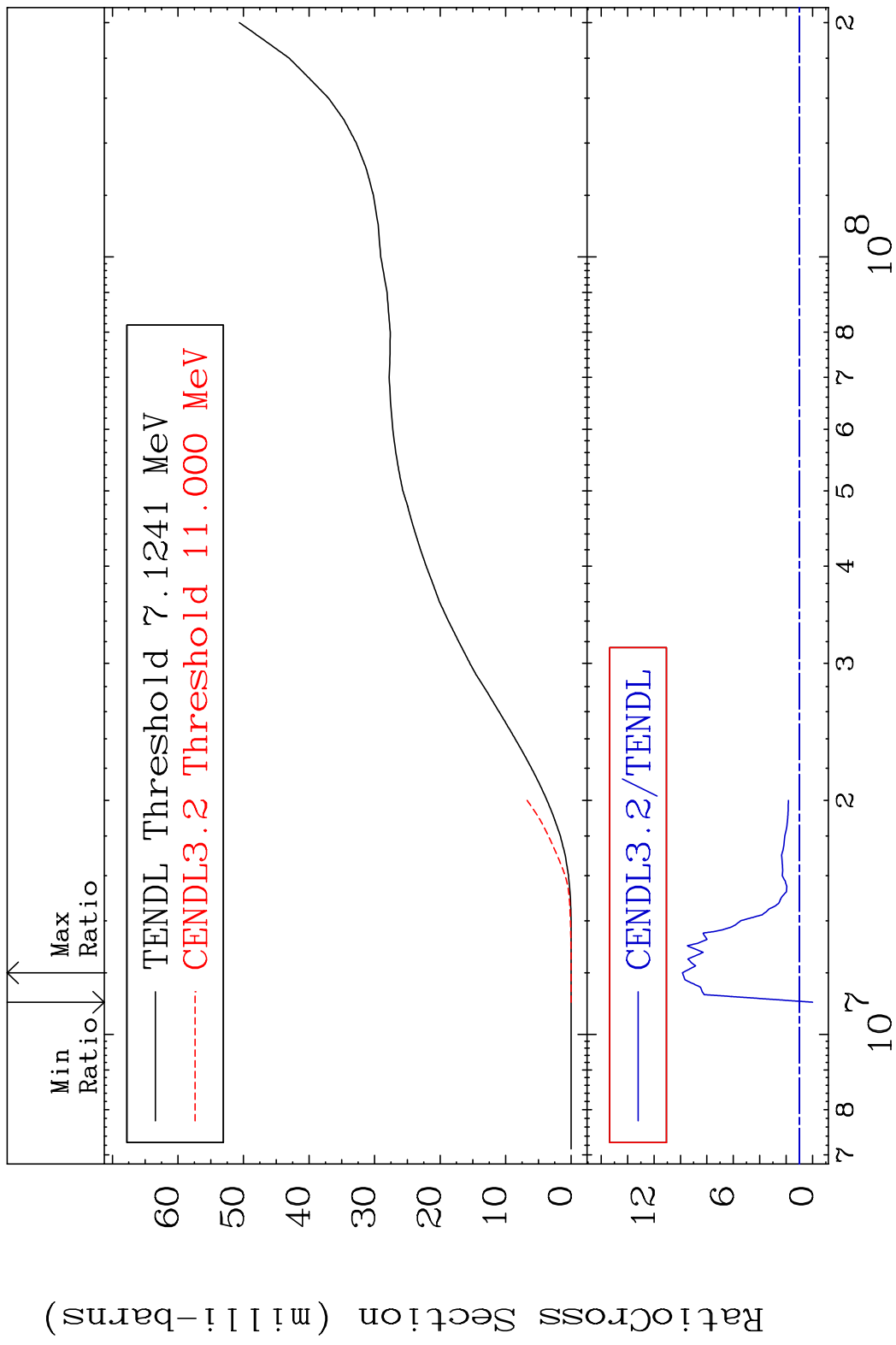


30

Incident Energy (eV)

42-Mo-93

MAT 4228 Tritium Production 42-Mo-93  
 Cross Section -100.0 To 885.7 %



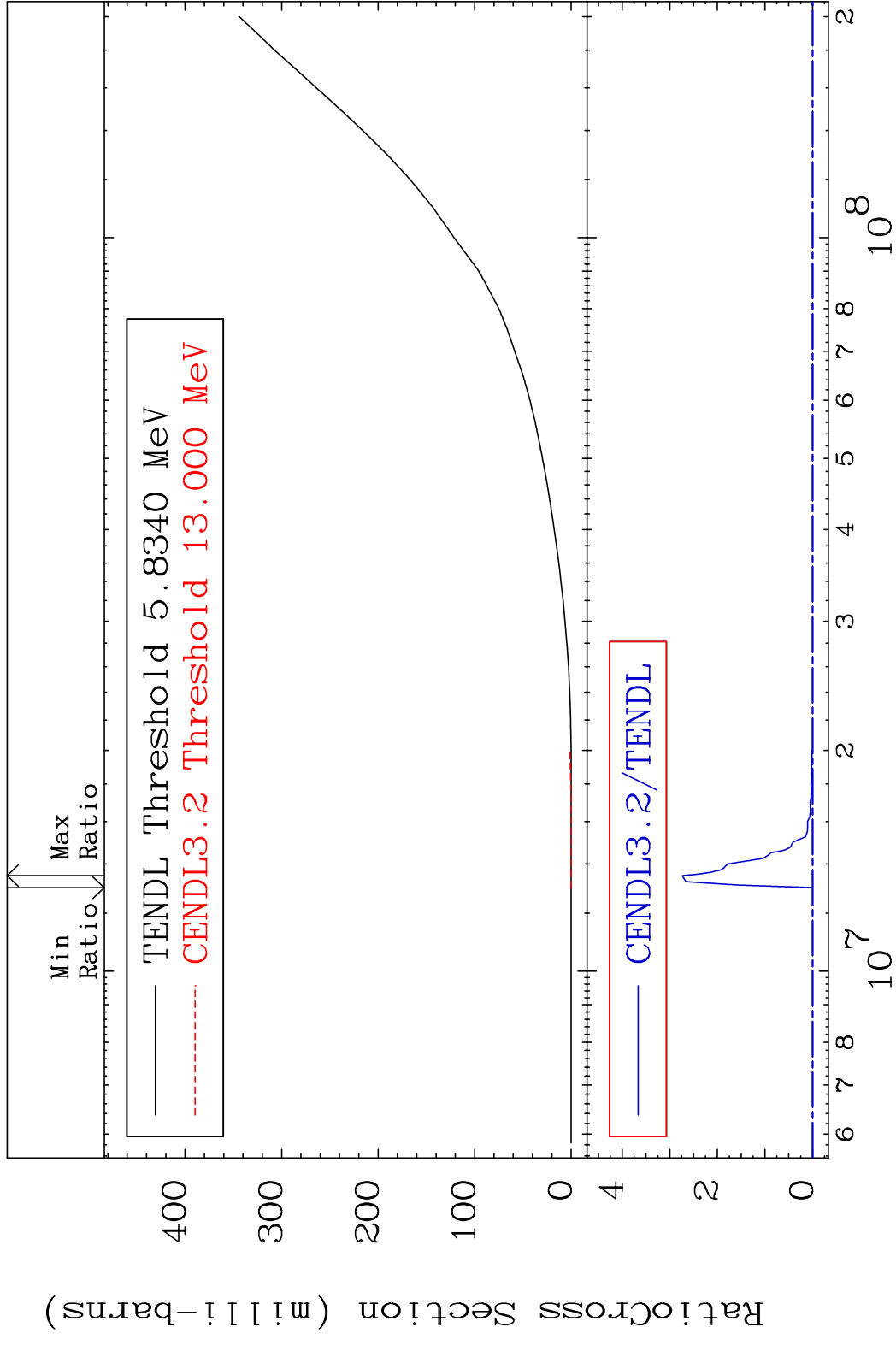


MAT 4228

He-3 Production

42-Mo-93

Cross Section -100.0 To 9999. %



32

Incident Energy (eV)

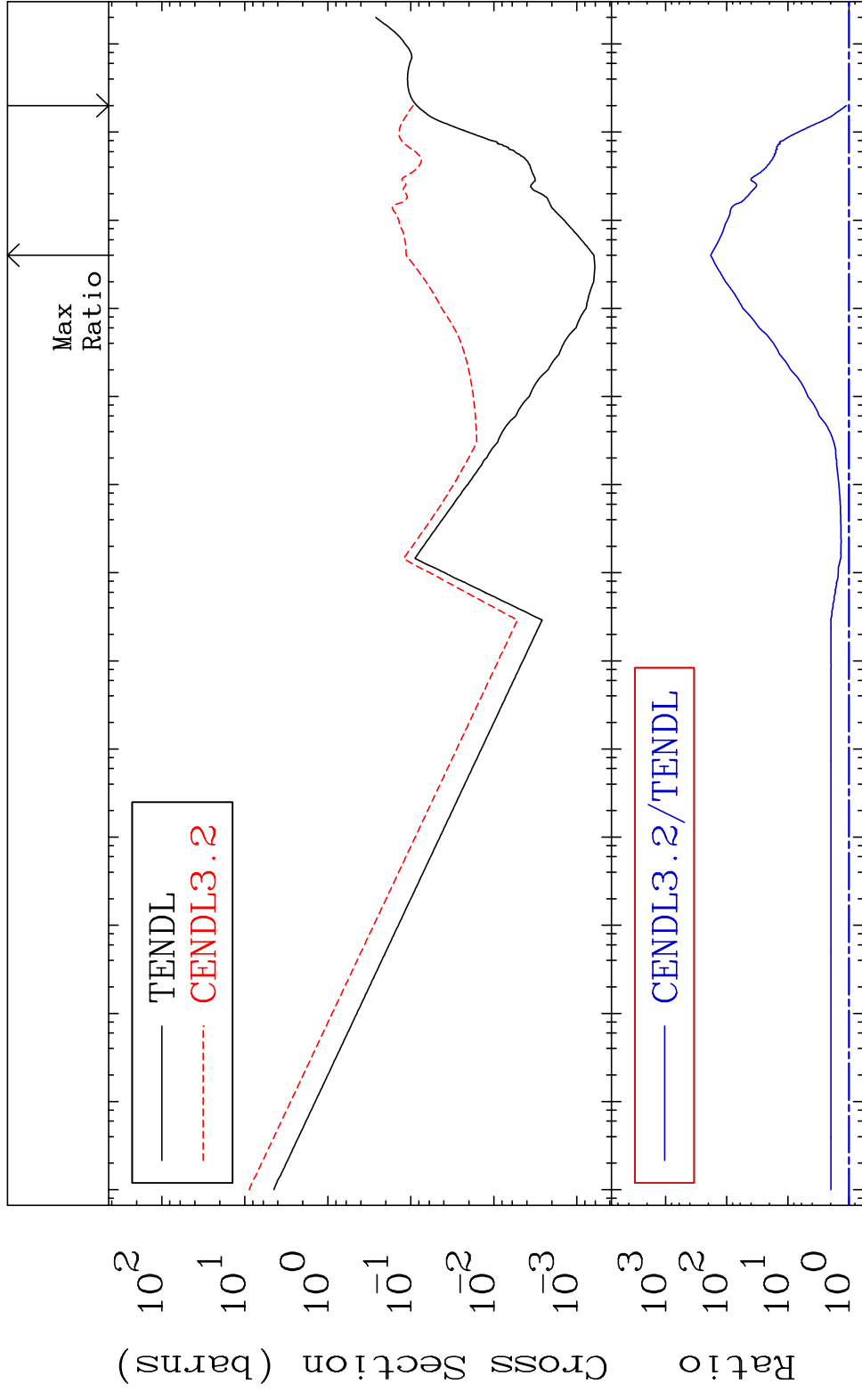
42-Mo-93

MAT 4228

He-4 Production

42-Mo-93

Cross Section 10.99 To 9999. %

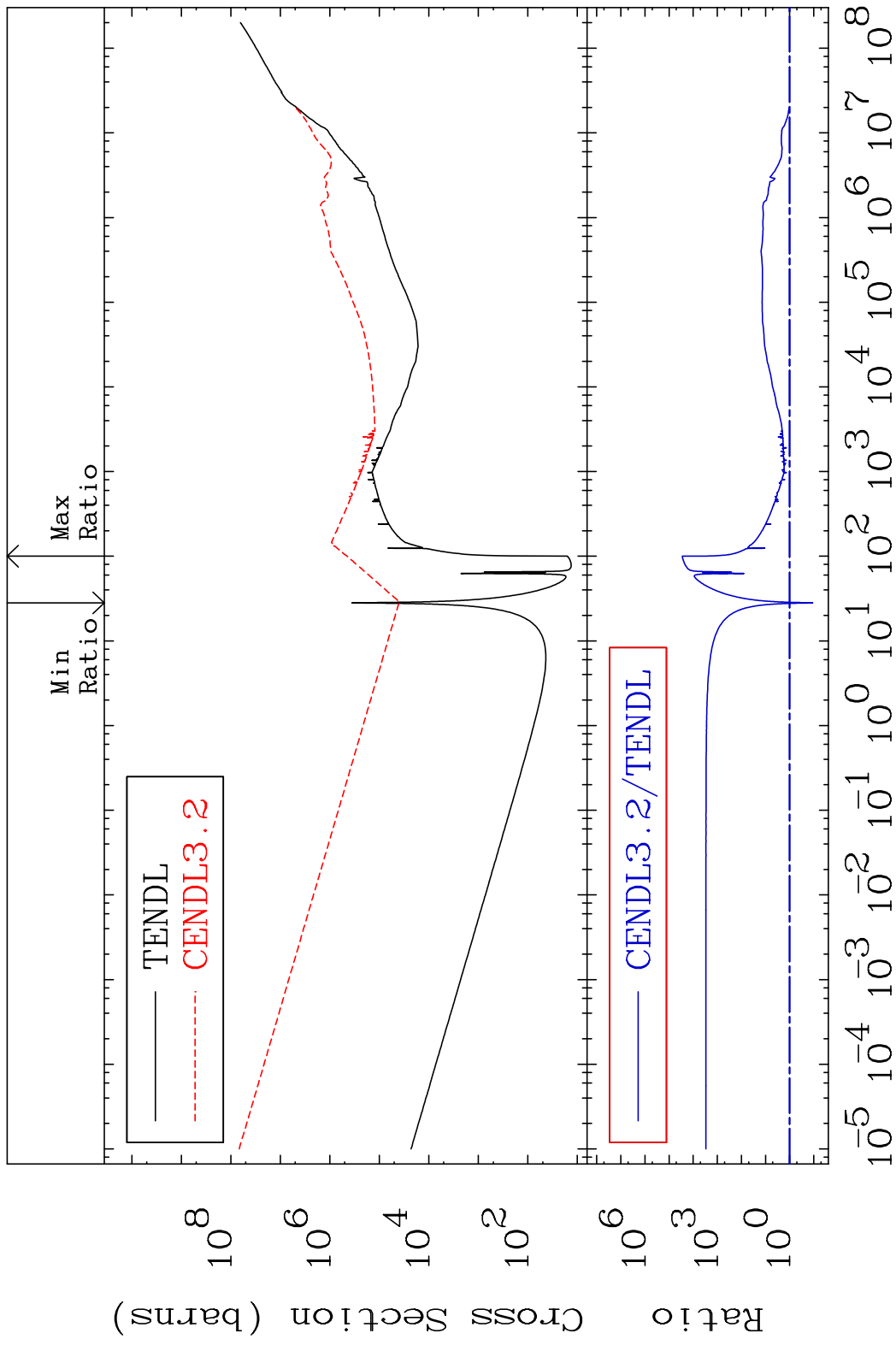


33

Incident Energy (eV)

42-Mo-93

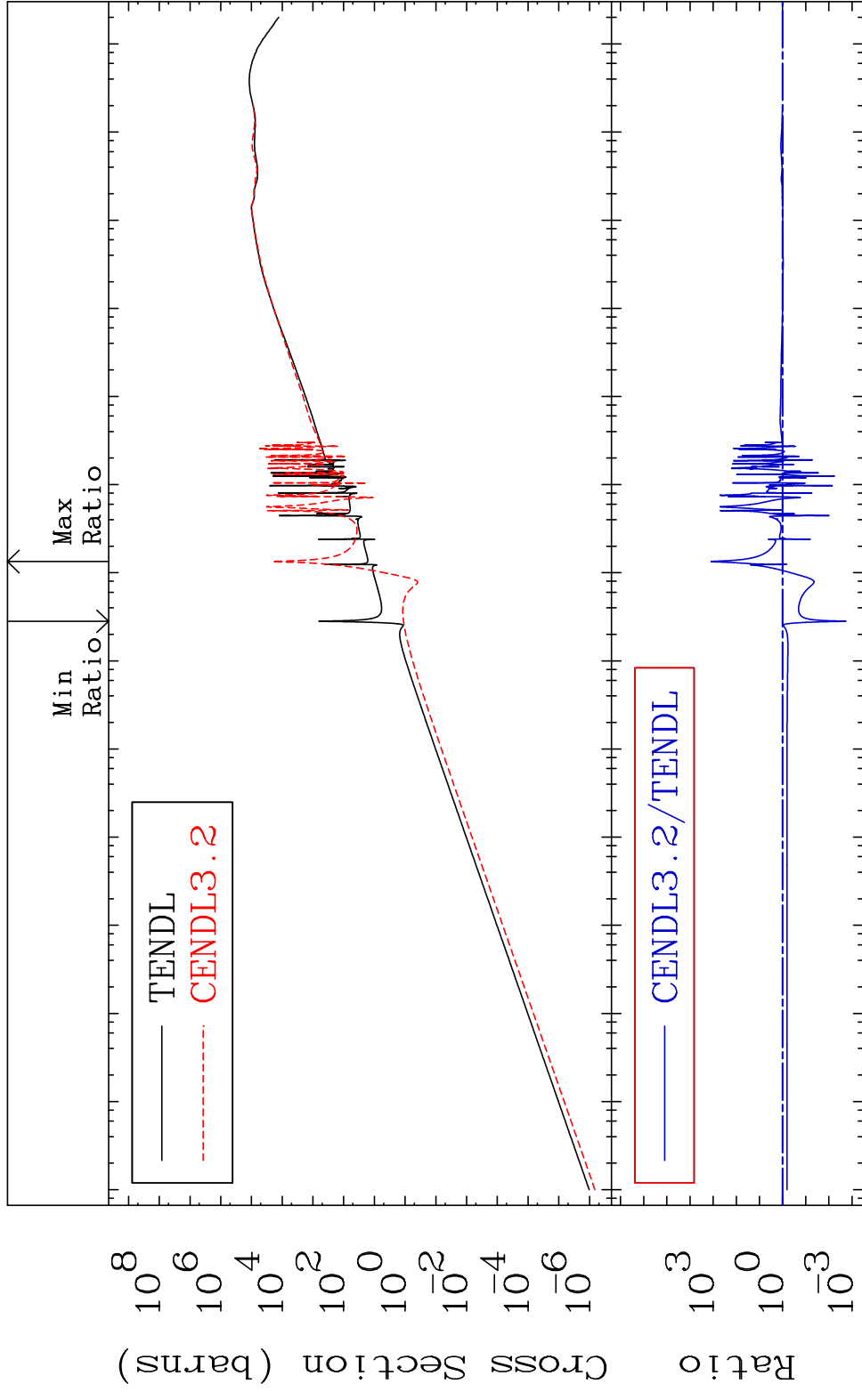
MAT 4228 Kerma total (eV-barns) 42-Mo-93  
 Cross Section -88.78 To 9999. %



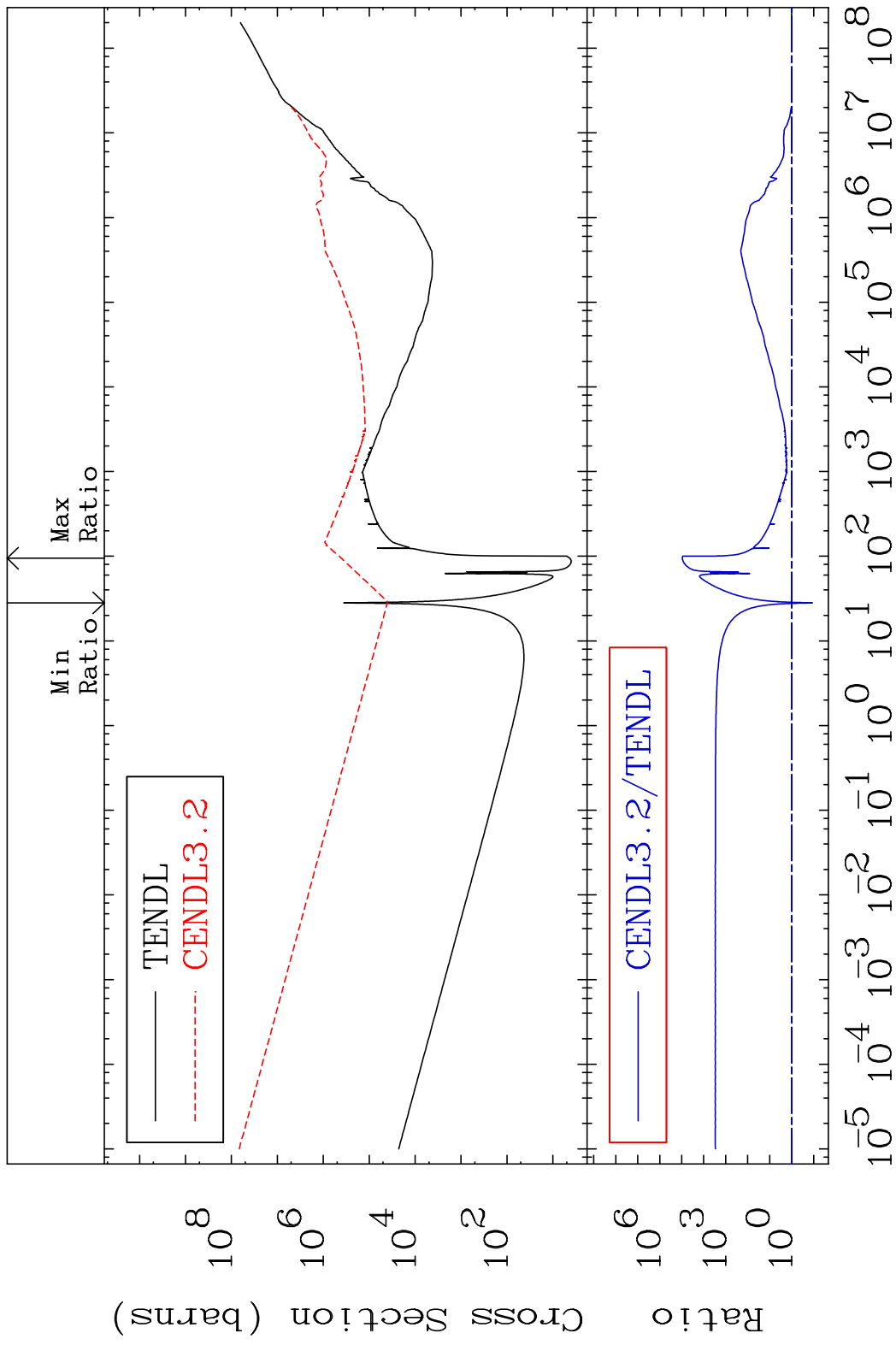
MAT 4228

Kerma elastic  
Cross Section

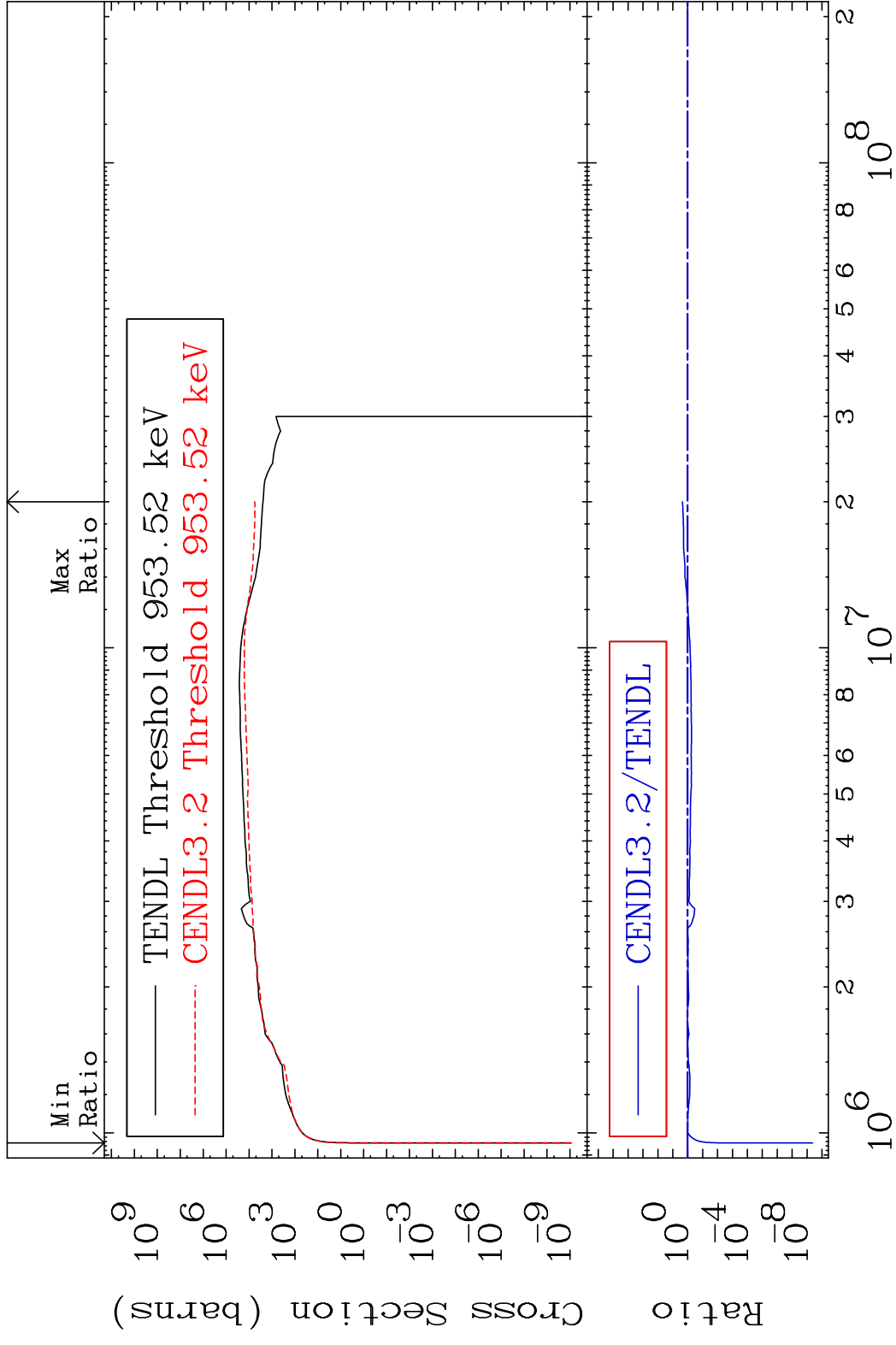
-99.82 To 9999. %  
42-Mo-93



MAT 4228 Kerma non-elastic (all but mt2) 42-Mo-93  
 Cross Section -88.77 To 9999. %

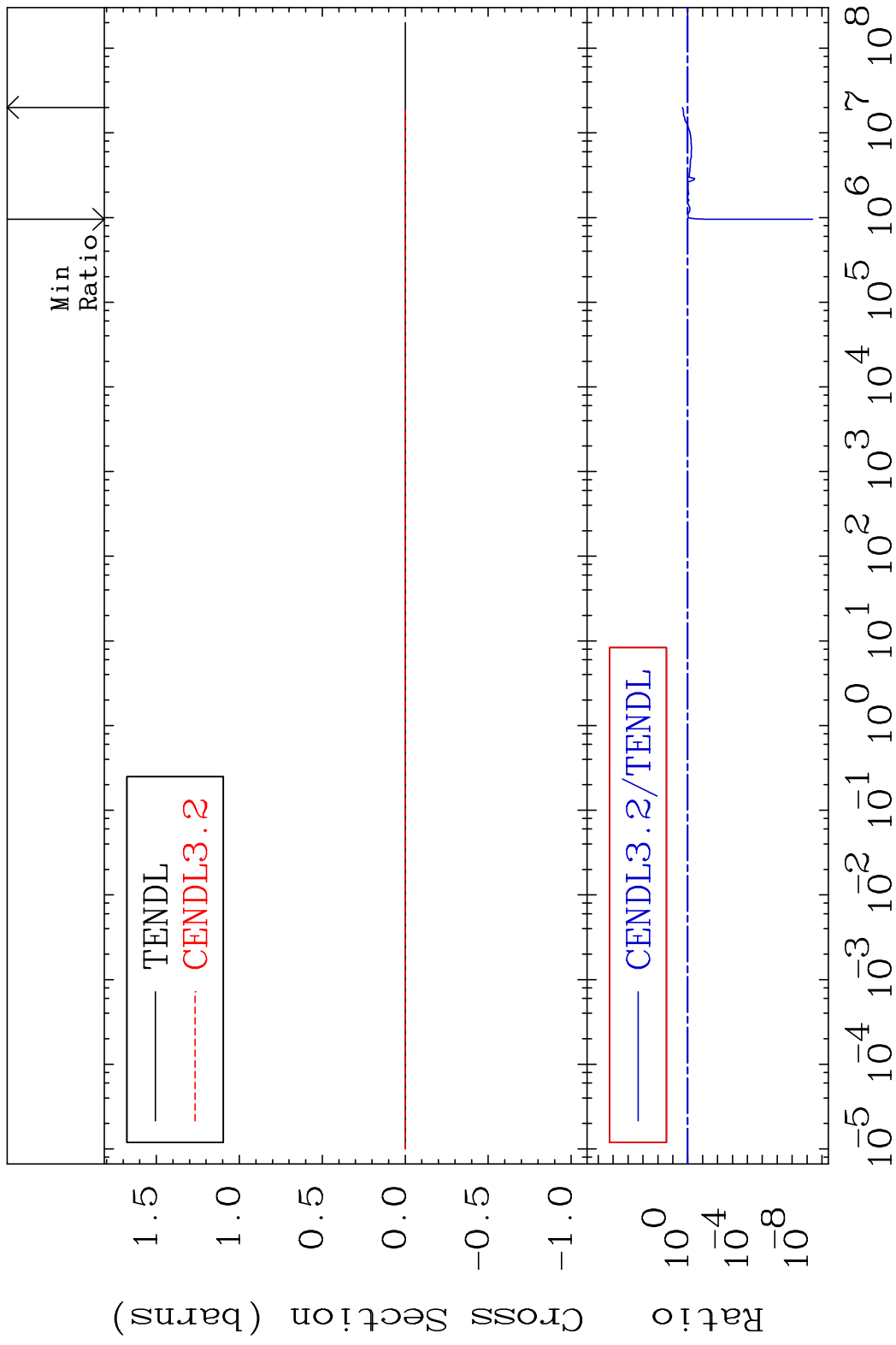


MAT 4228 Kerma inelastic (mt51-91) 42-Mo-93  
 Cross Section -100.0 To 129.5 %



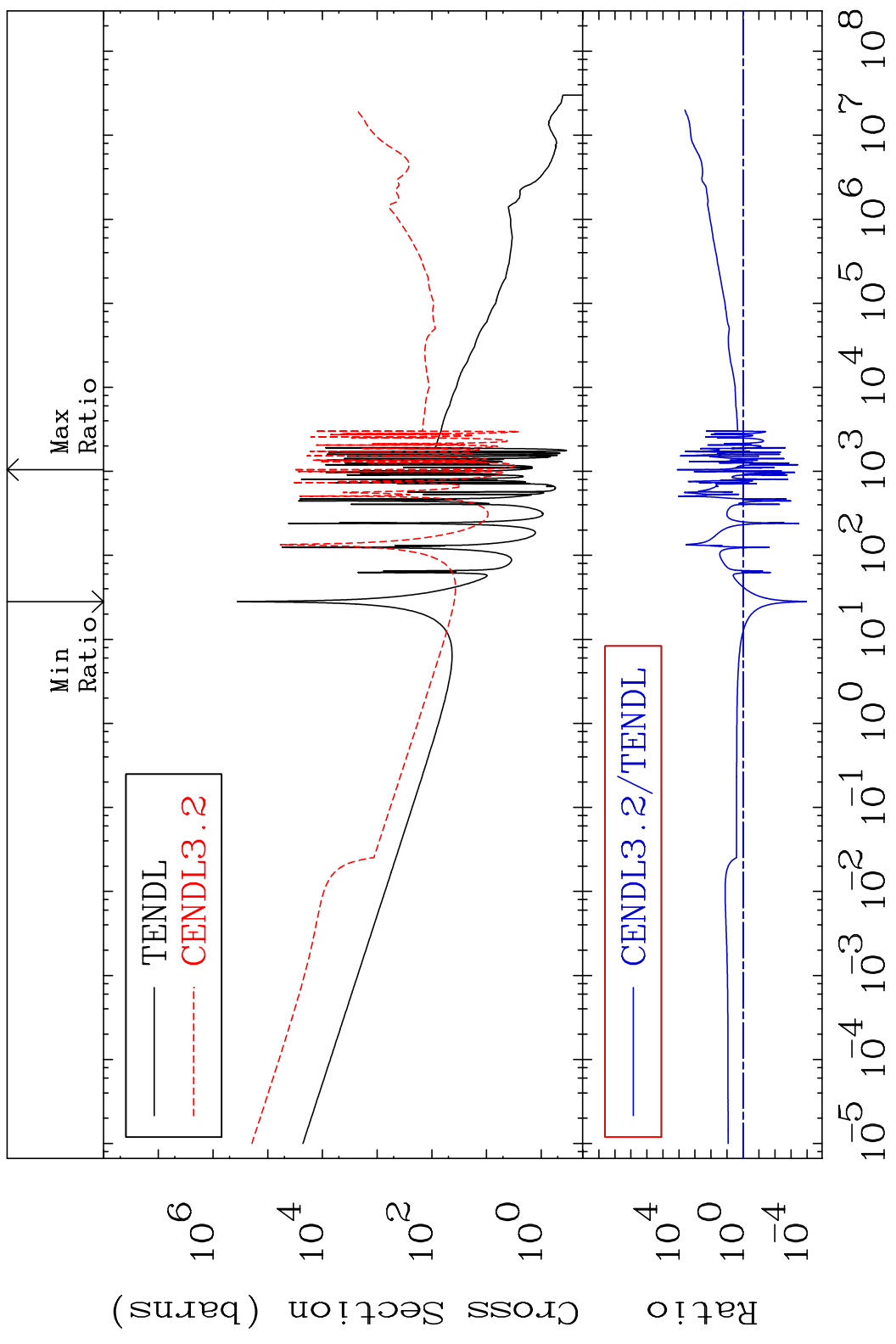
37 Incident Energy (eV) 42-Mo-93

MAT 4228 Kerma fission (mt18 or mt19-20-21-38) 42-Mo-93  
 Cross Section -100.0 To 129.5 %



MAT 4228

Kerma capture (mt102) 42-Mo-93  
Cross Section -99.99 To 9999. %



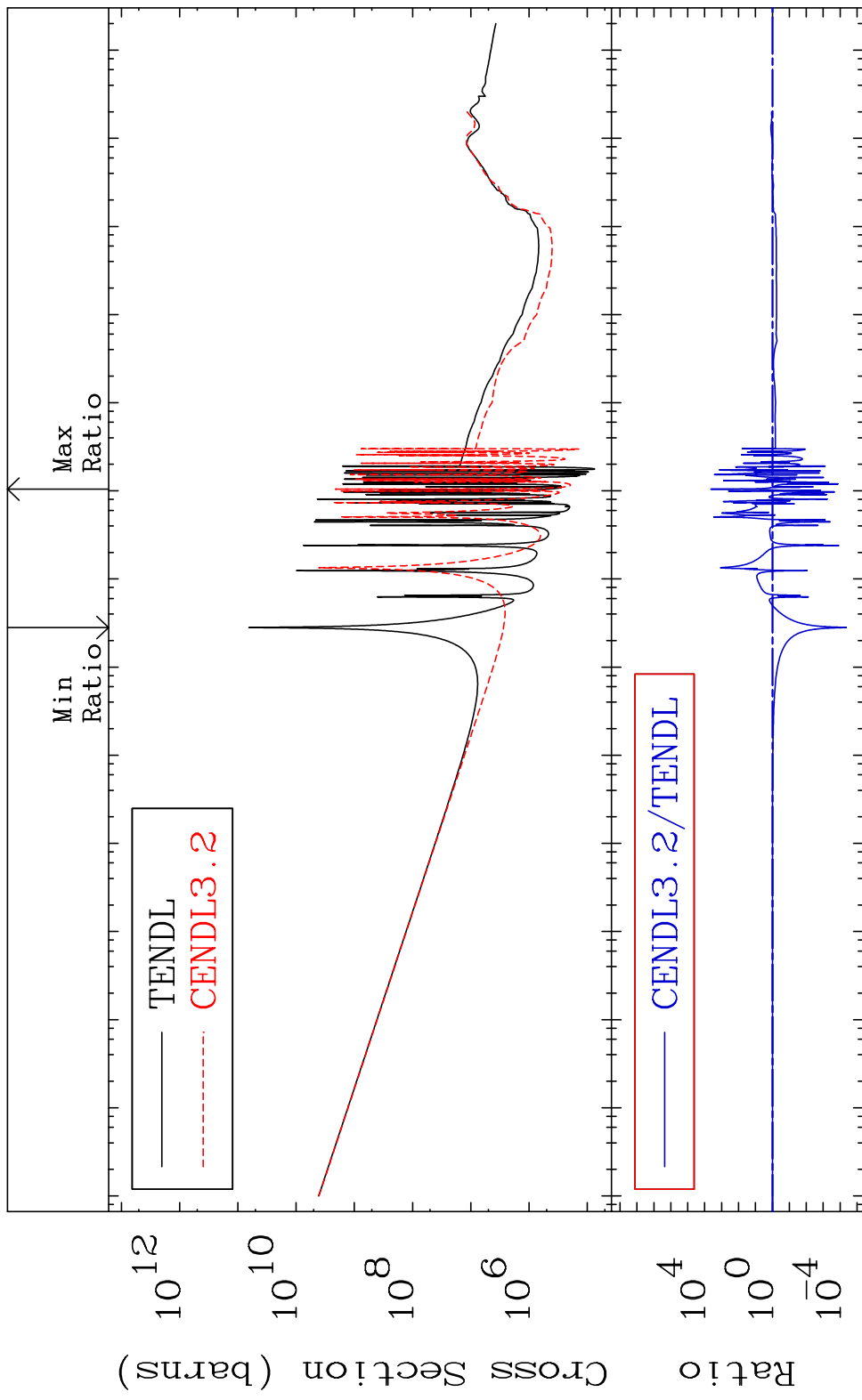
39

Incident Energy (eV)

42-Mo-93

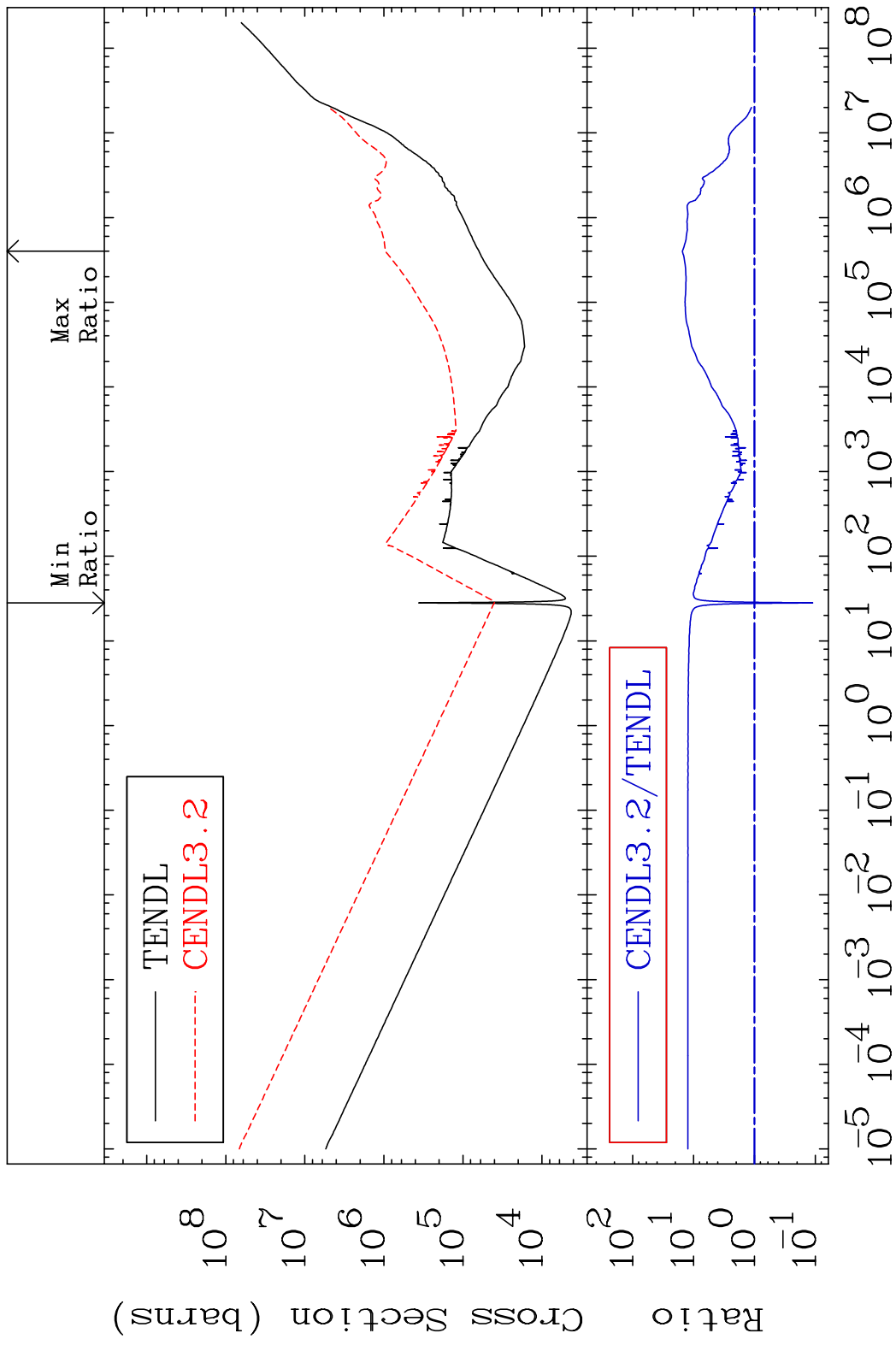


MAT 4228 Total photon (eV-barns) 42-Mo-93  
 Cross Section -100.0 To 9999. %

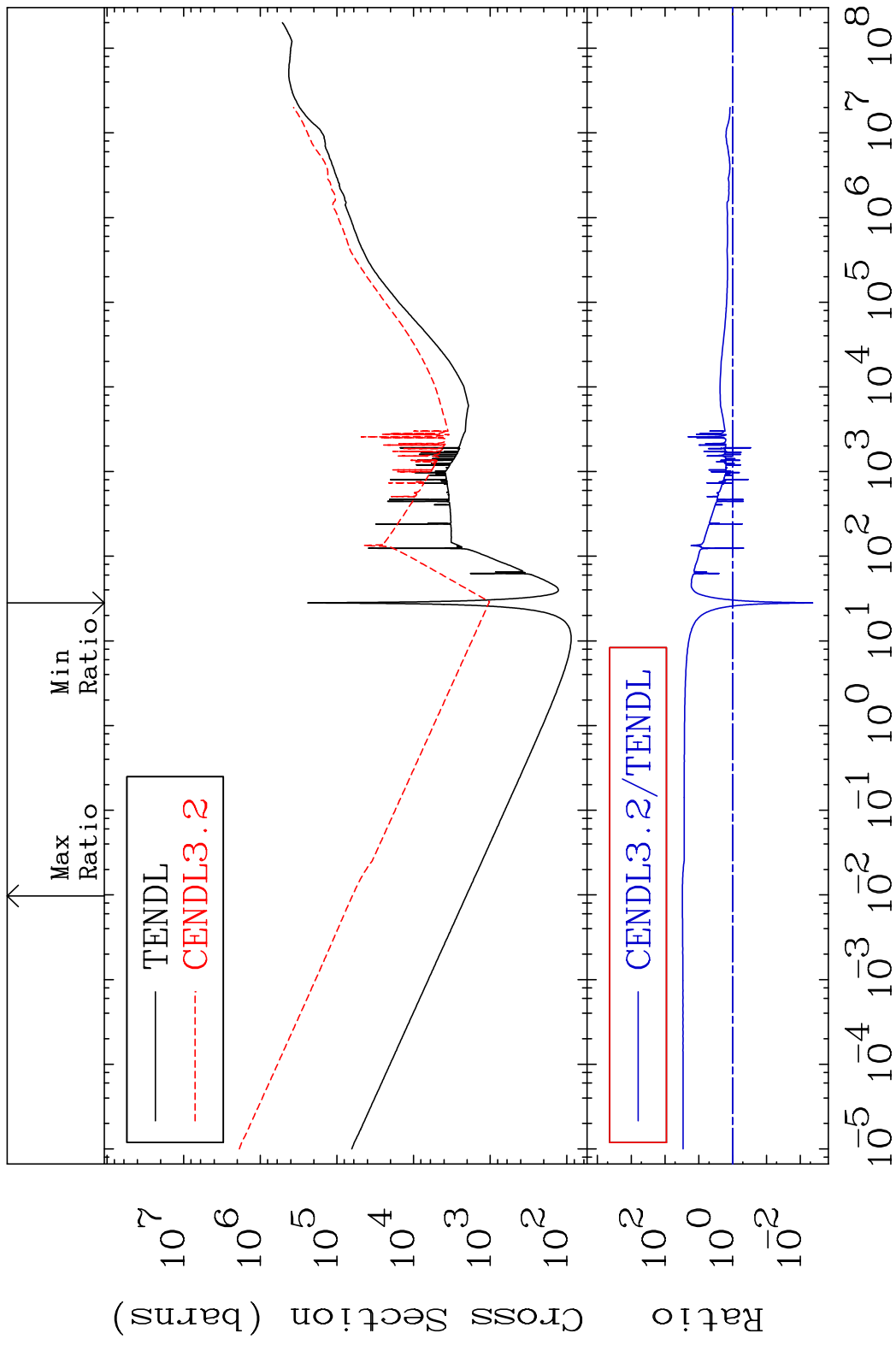


40 Incident Energy (eV) 42-Mo-93

MAT 4228 Total kinematic kerma (high limit) 42-Mo-93  
 Cross Section -88.90 To 1431. %



MAT 4228 Dpa total (eV-barns) 42-Mo-93  
 Cross Section -99.57 To 2972. %



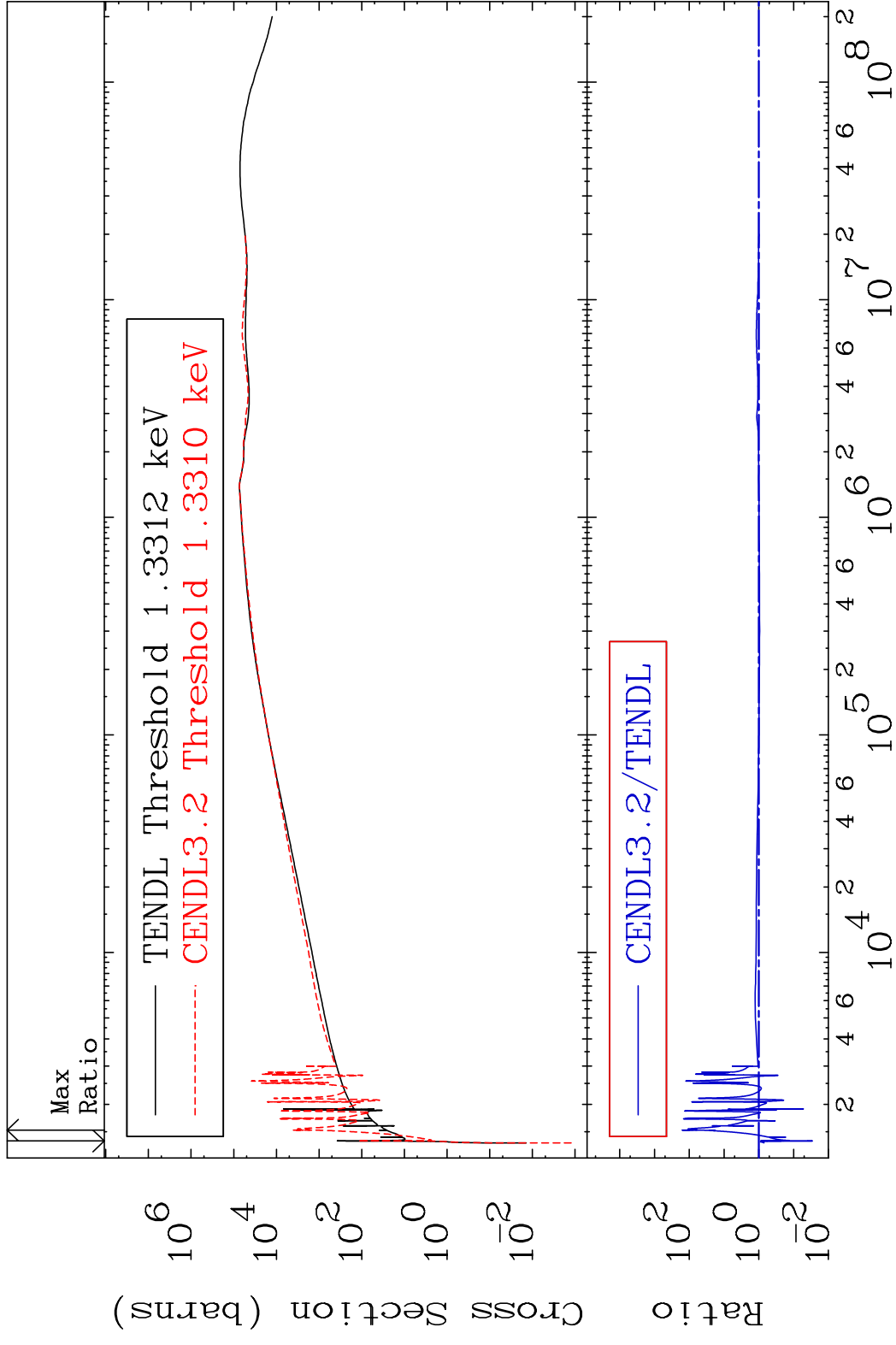
42 Incident Energy (eV) 42-Mo-93

MAT 4228

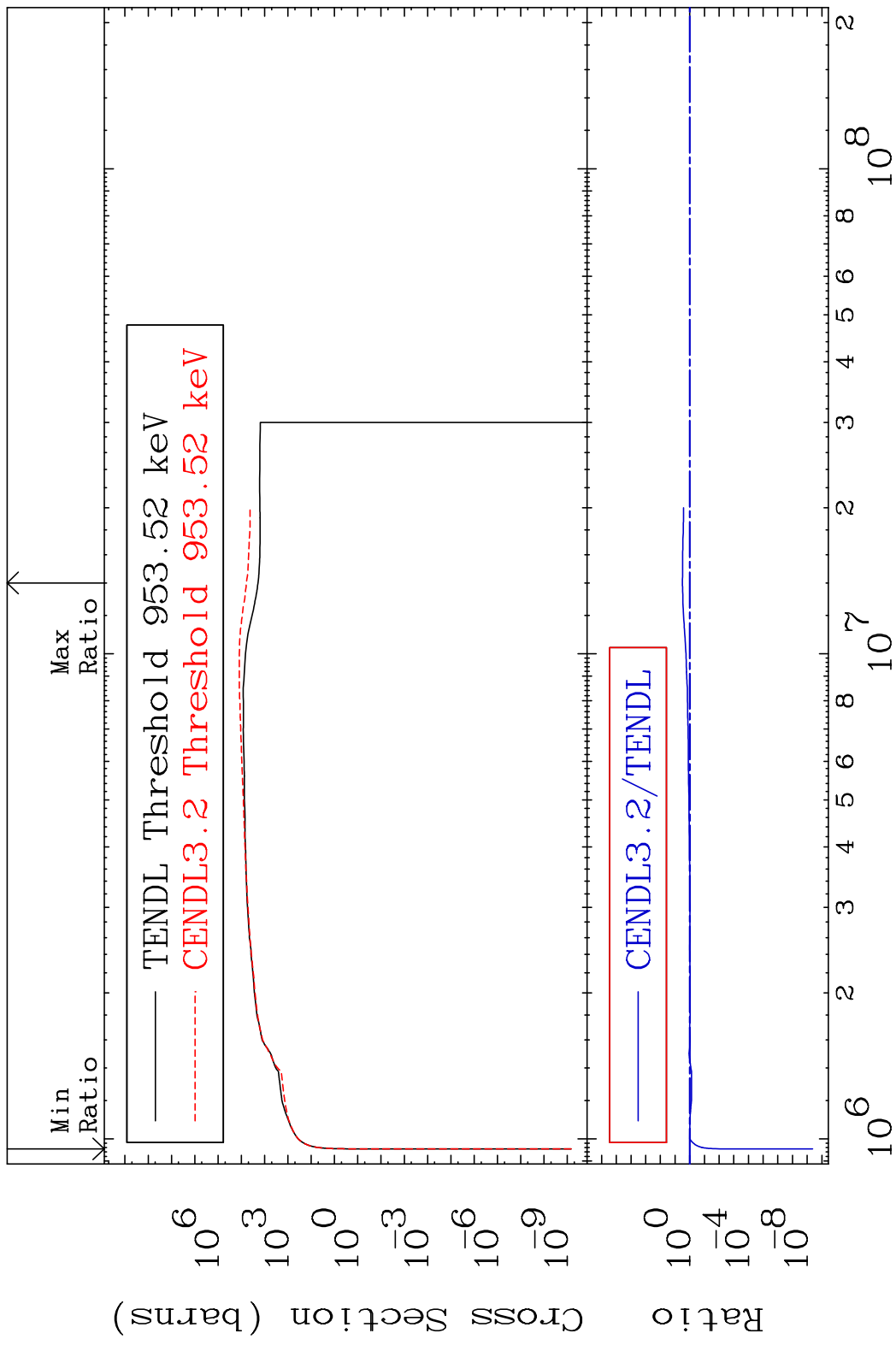
Dpa elastic (mt2)

42-Mo-93

Cross Section -97.15 To 9999. %

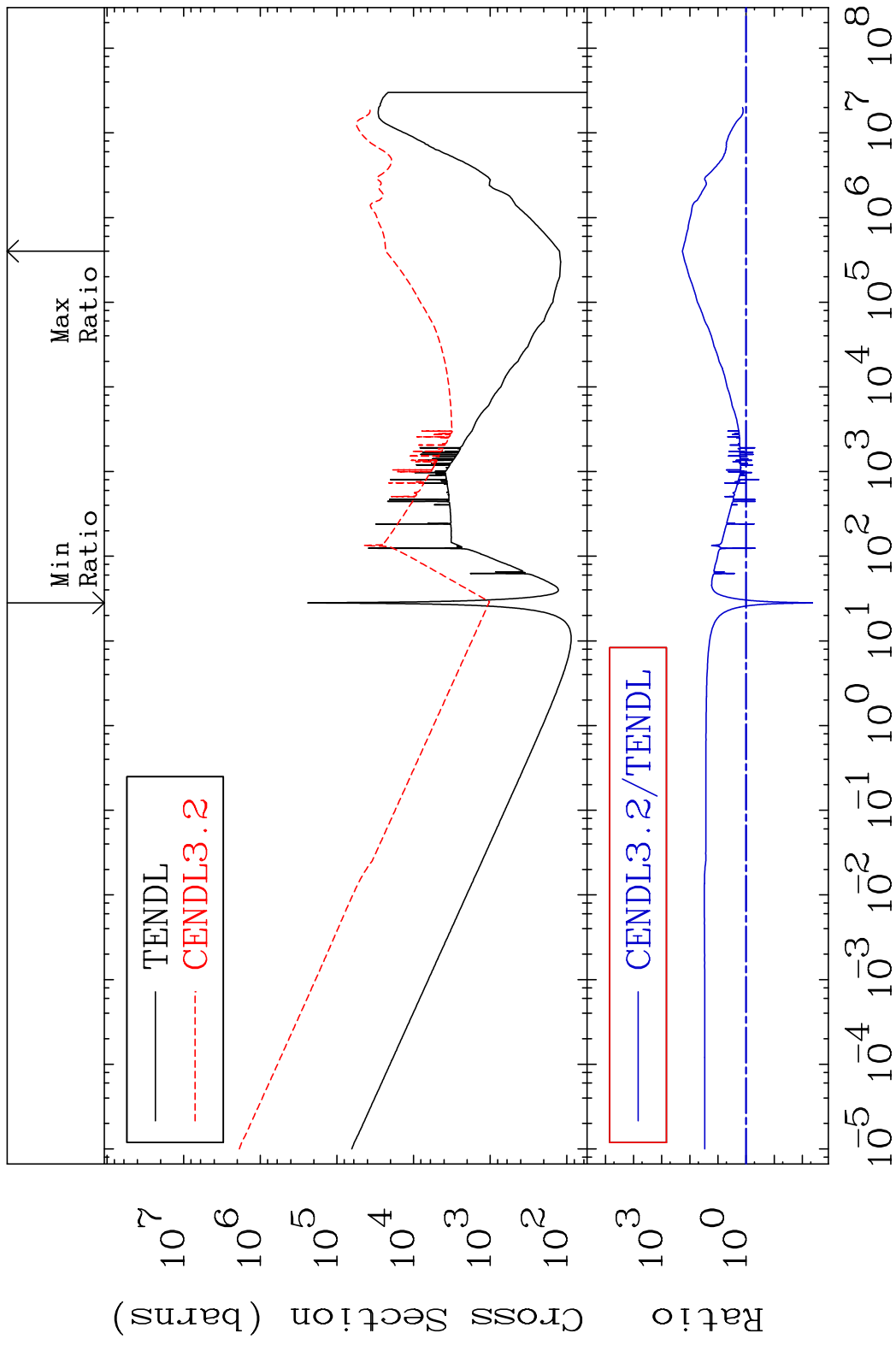


MAT 4228 Dpa inelastic (mt51-91) 42-Mo-93  
 Cross Section -100.0 To 217.6 %



44 Incident Energy (eV) 42-Mo-93

MAT 4228 Dpa disappearance (mt102 -120) 42-Mo-93  
 Cross Section -99.57 To 9999. %

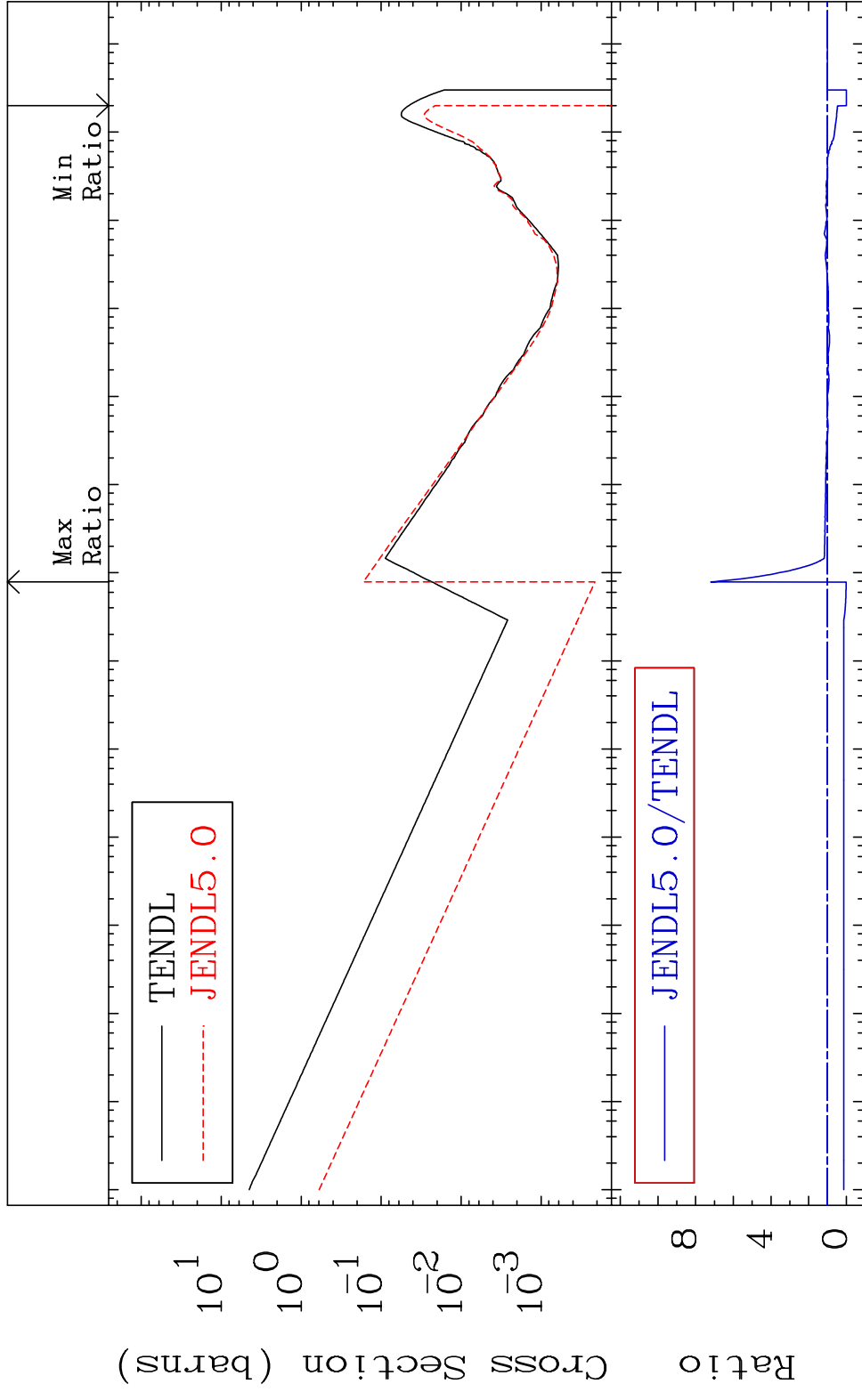


MAT 4228

42-Mo-93

(n,  $\alpha$ )

Cross Section -100.0 To 619.9 %



46

Incident Energy (eV)

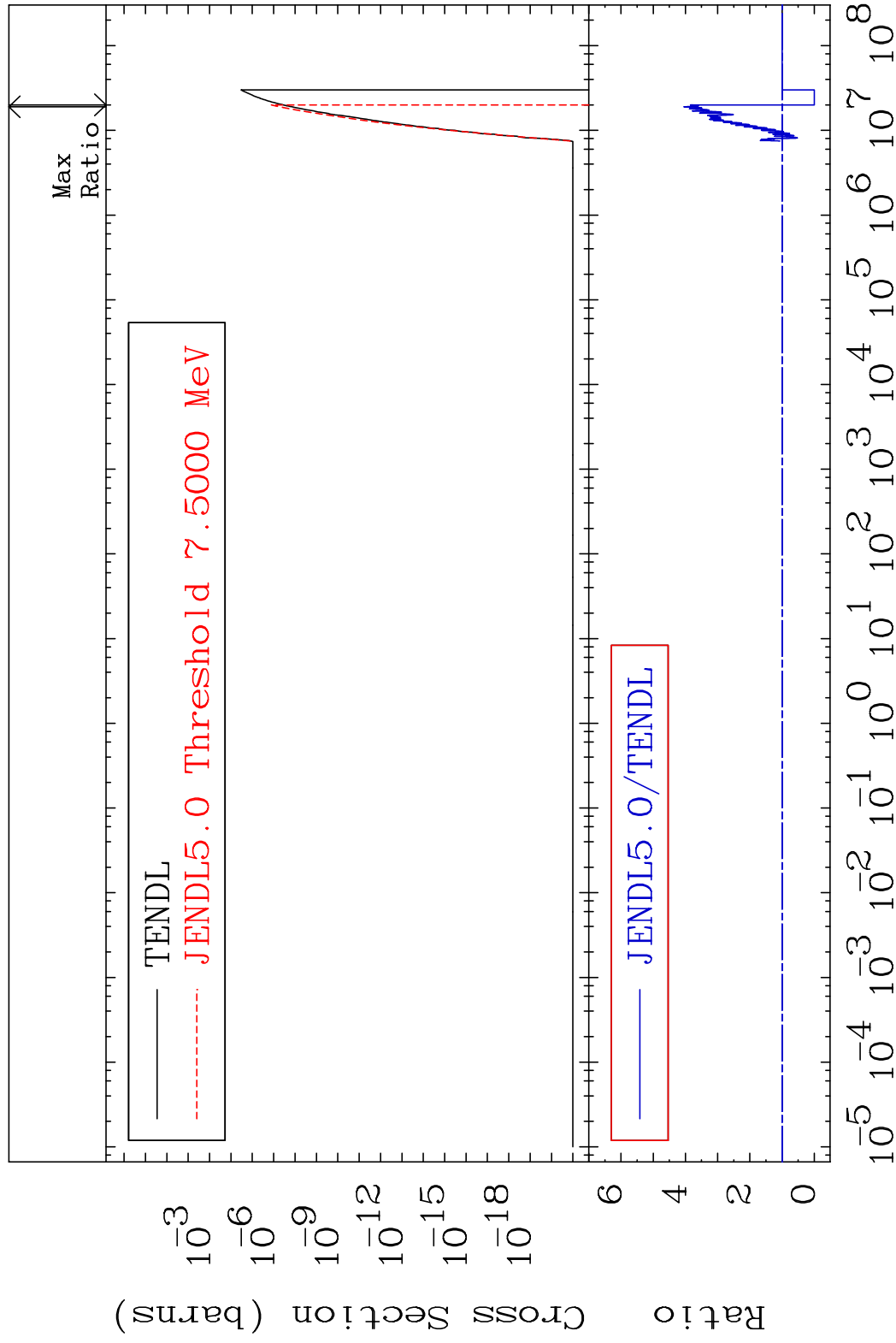
42-Mo-93

MAT 4228

(n,2α)

42-Mo-93

Cross Section -100.0 To 304.3 %



47

Incident Energy (eV)

42-Mo-93

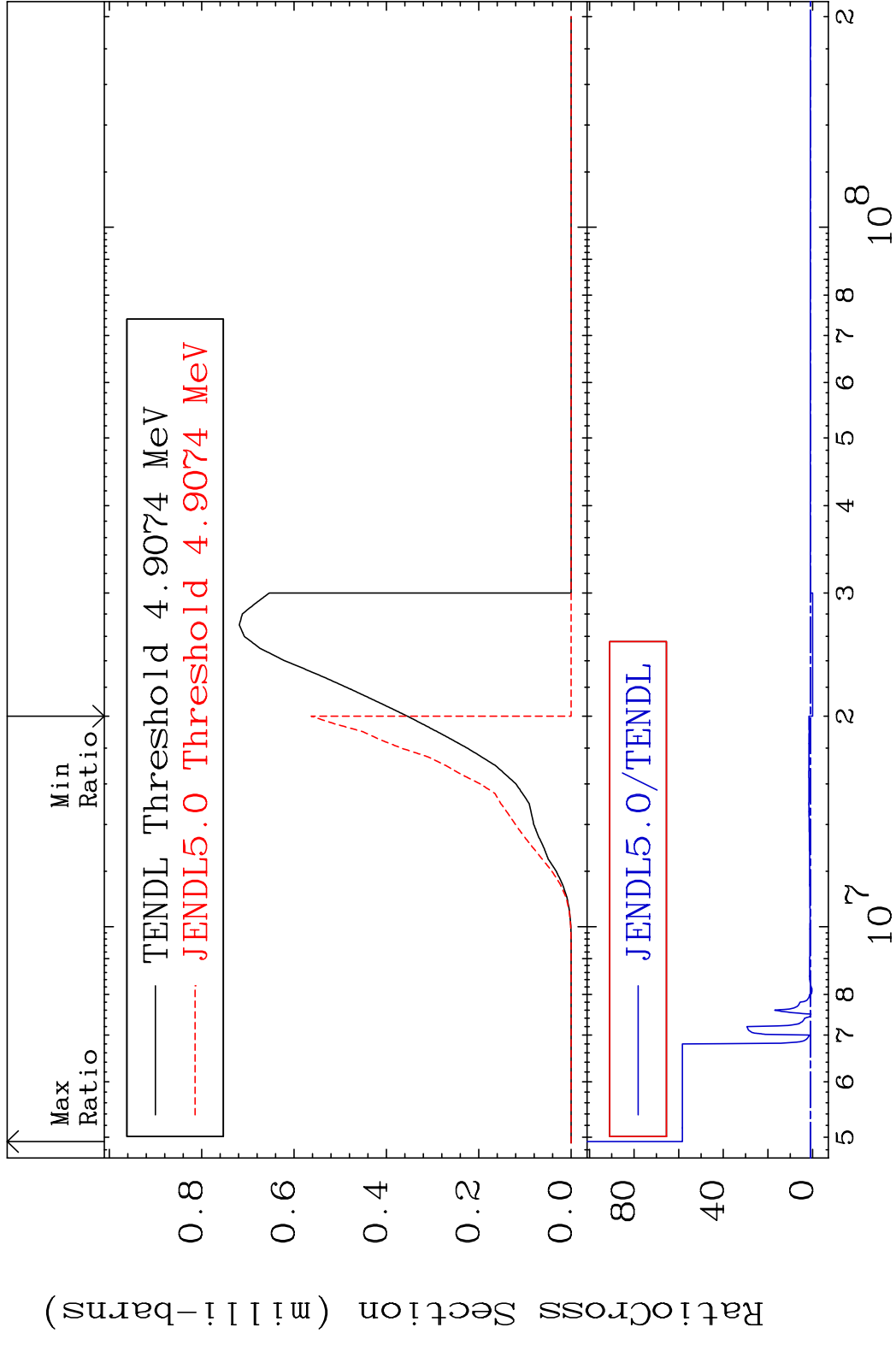


MAT 4228

(n,2p)

42-Mo-93

Cross Section -100.0 To 5737. %



48

Incident Energy (eV)

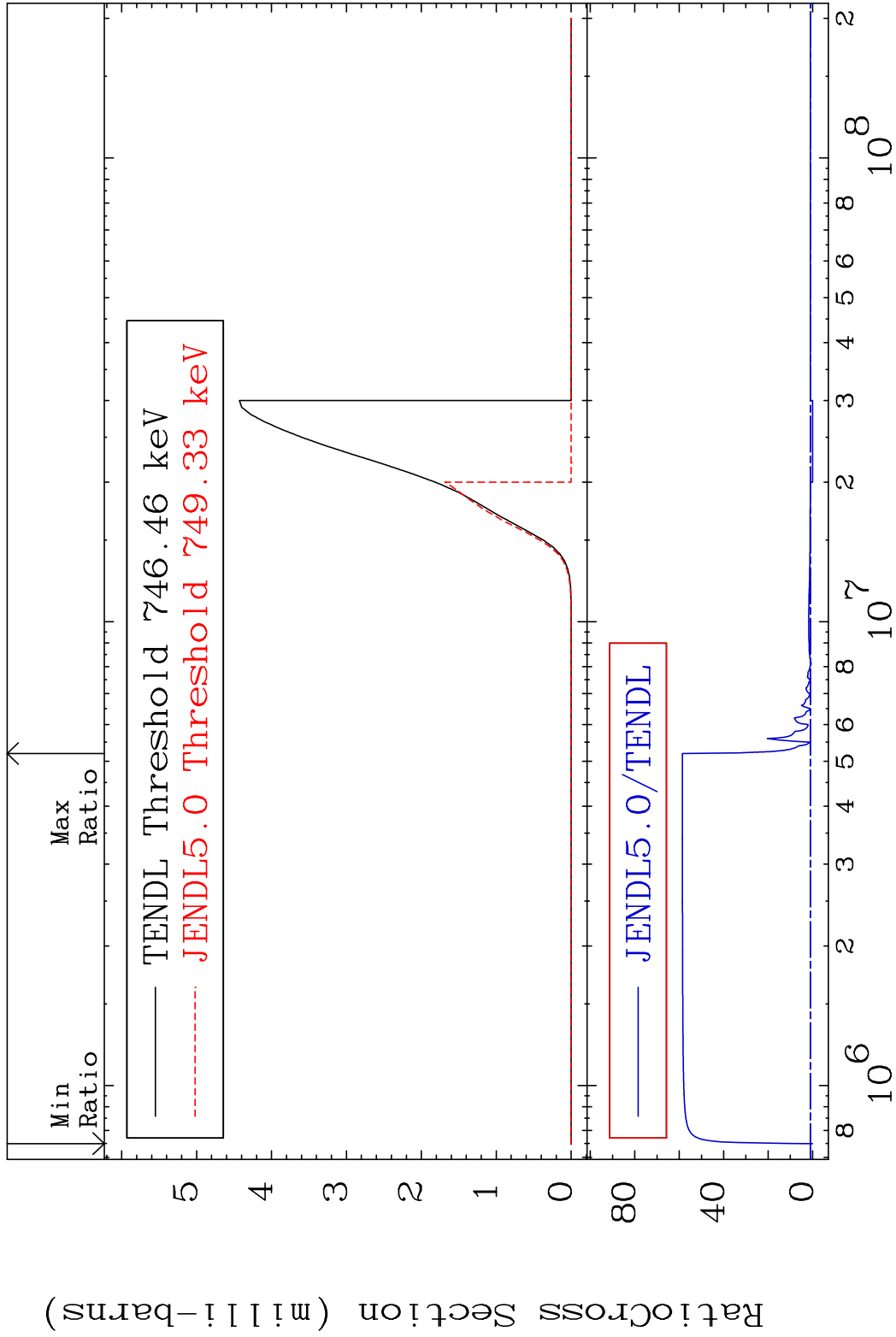
42-Mo-93

MAT 4228

(n,p)  $\alpha$

42-Mo-93

Cross Section -100.0 To 5759. %

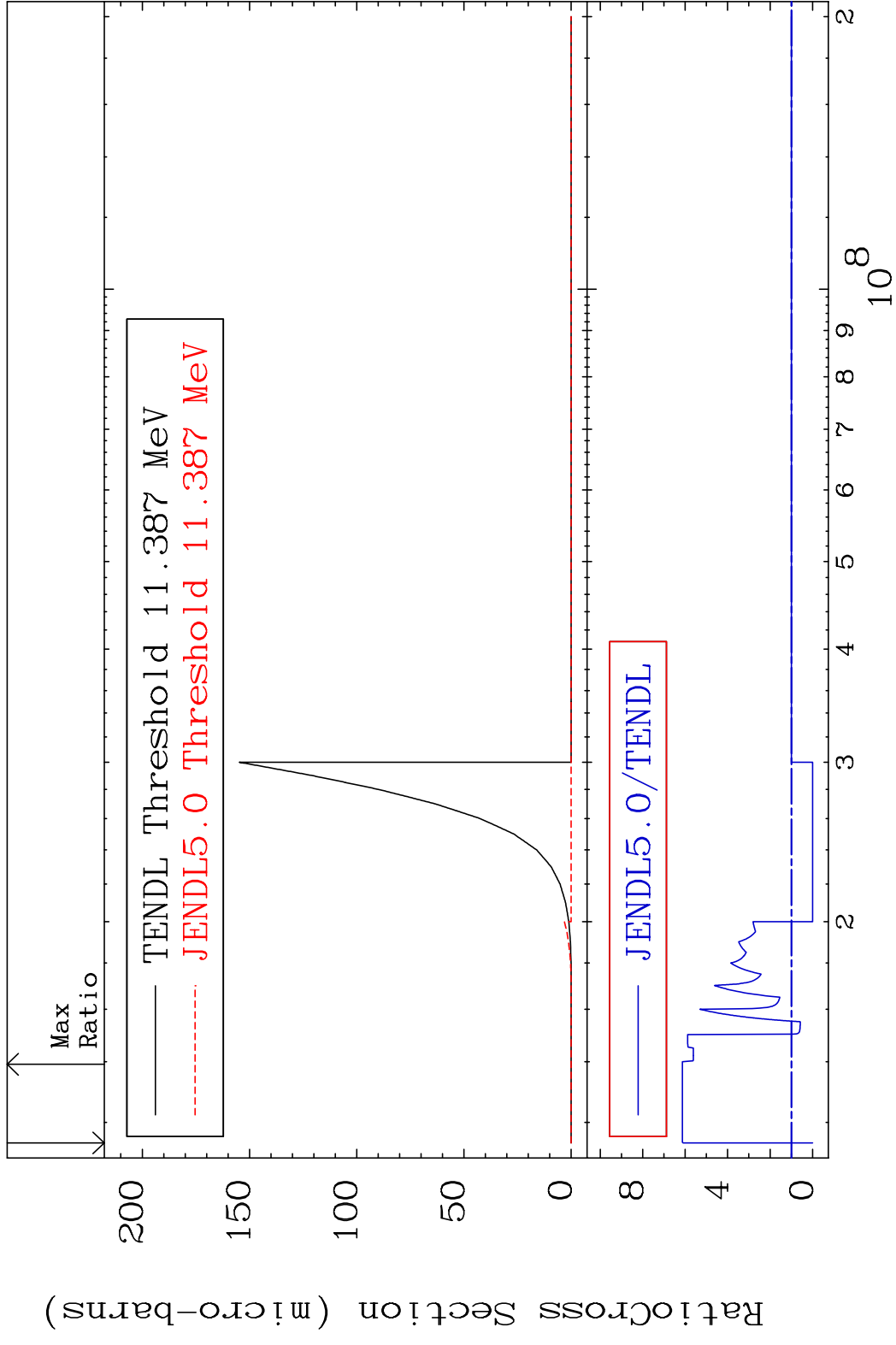


49

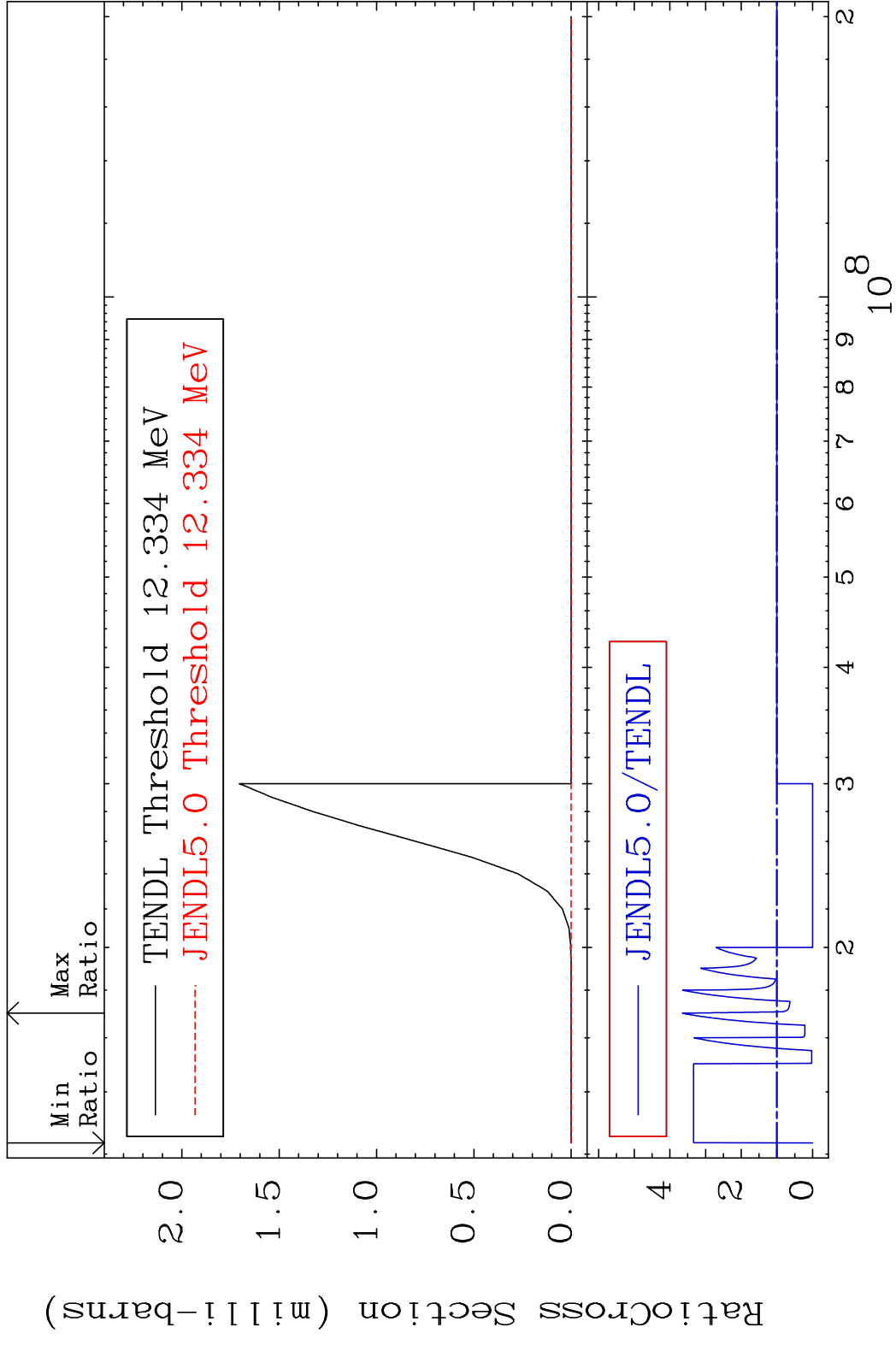
Incident Energy (eV)

42-Mo-93

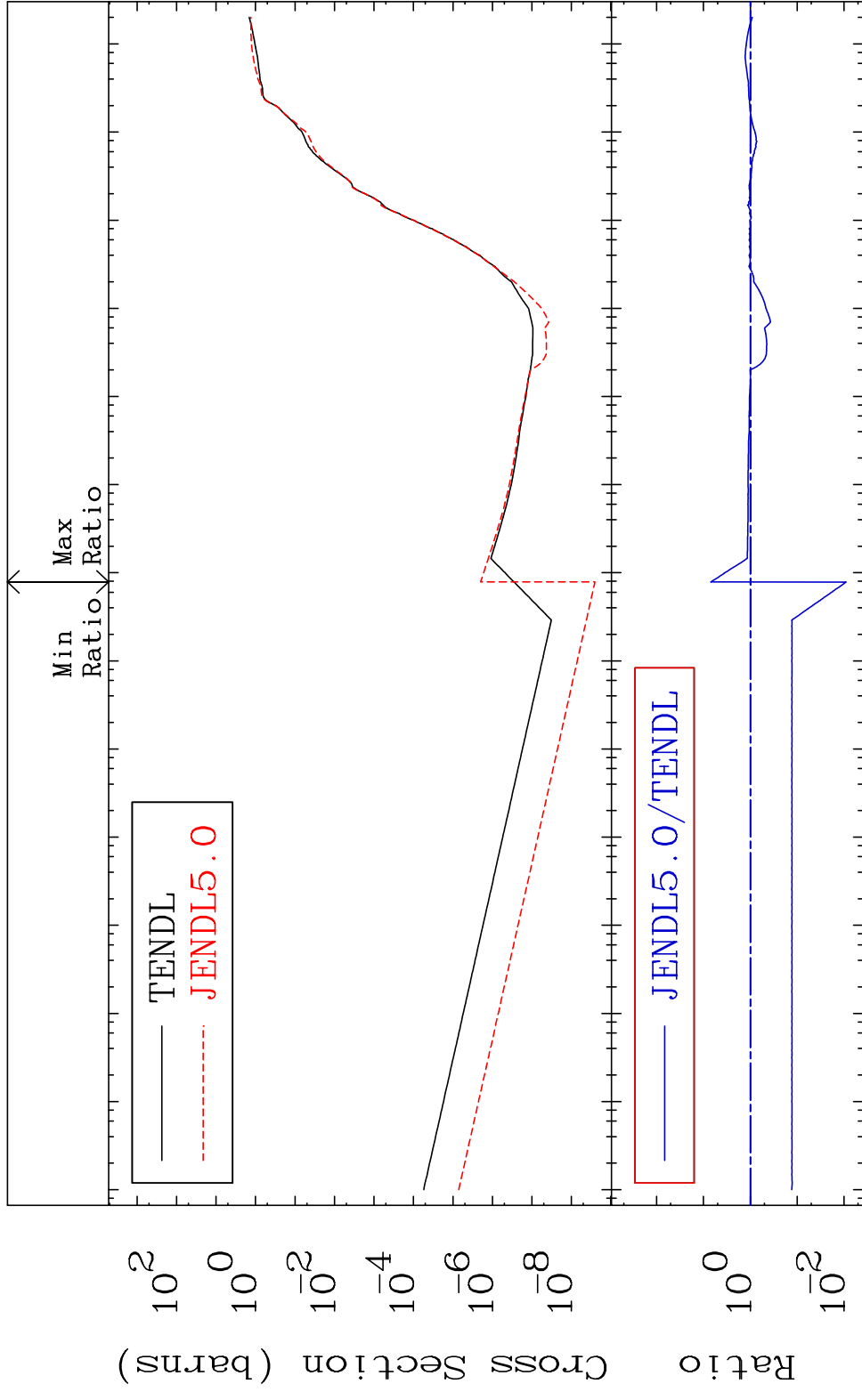
MAT 4228 (n,p) d 42-Mo-93  
 Cross Section -100.0 To 513.2 %



MAT 4228 (n,p) t 42-Mo-93  
 Cross Section -100.0 To 265.1 %

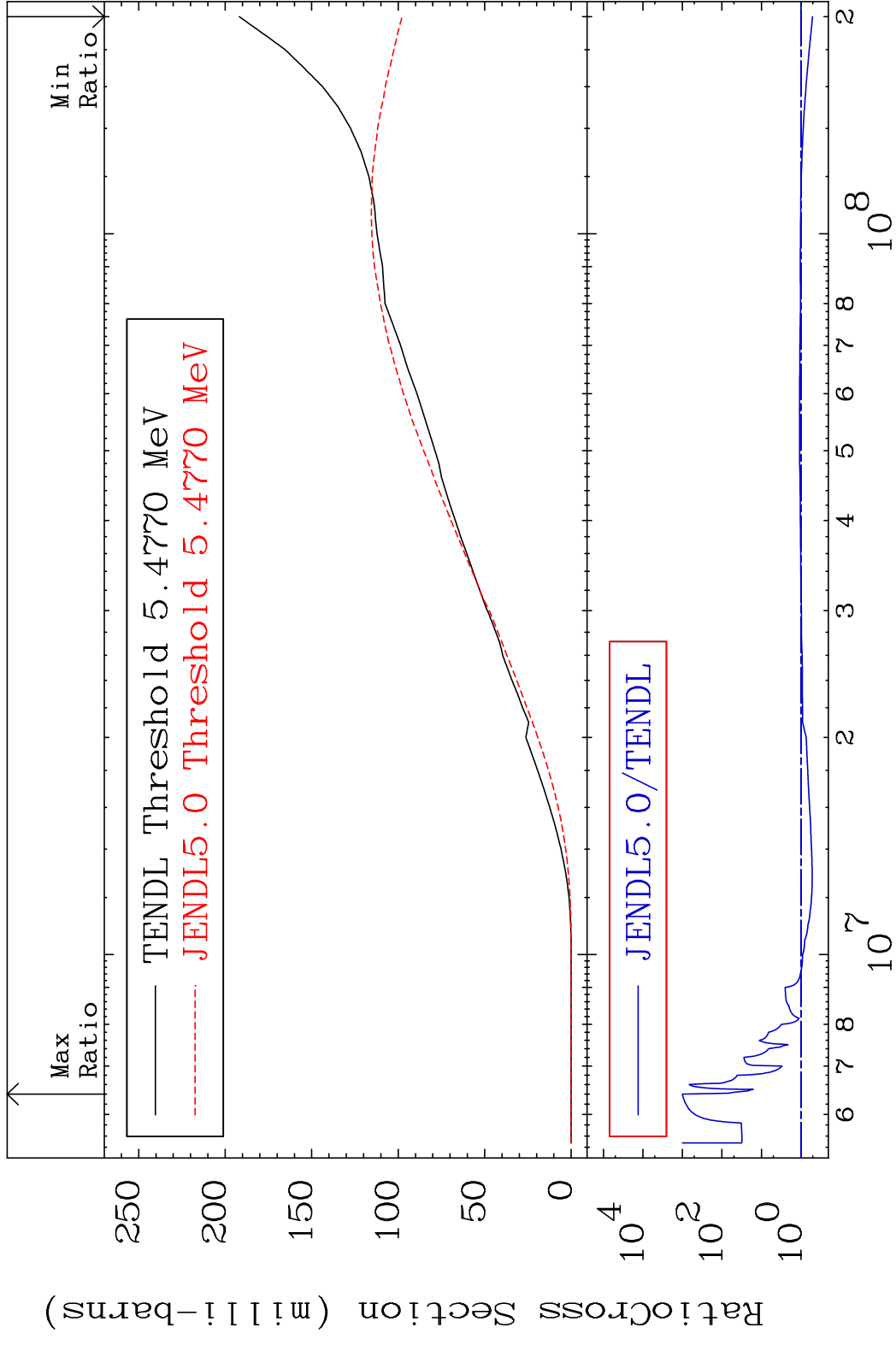


MAT 4228 Hydrogen Production 42-Mo-93  
 Cross Section -99.11 To 599.9 %

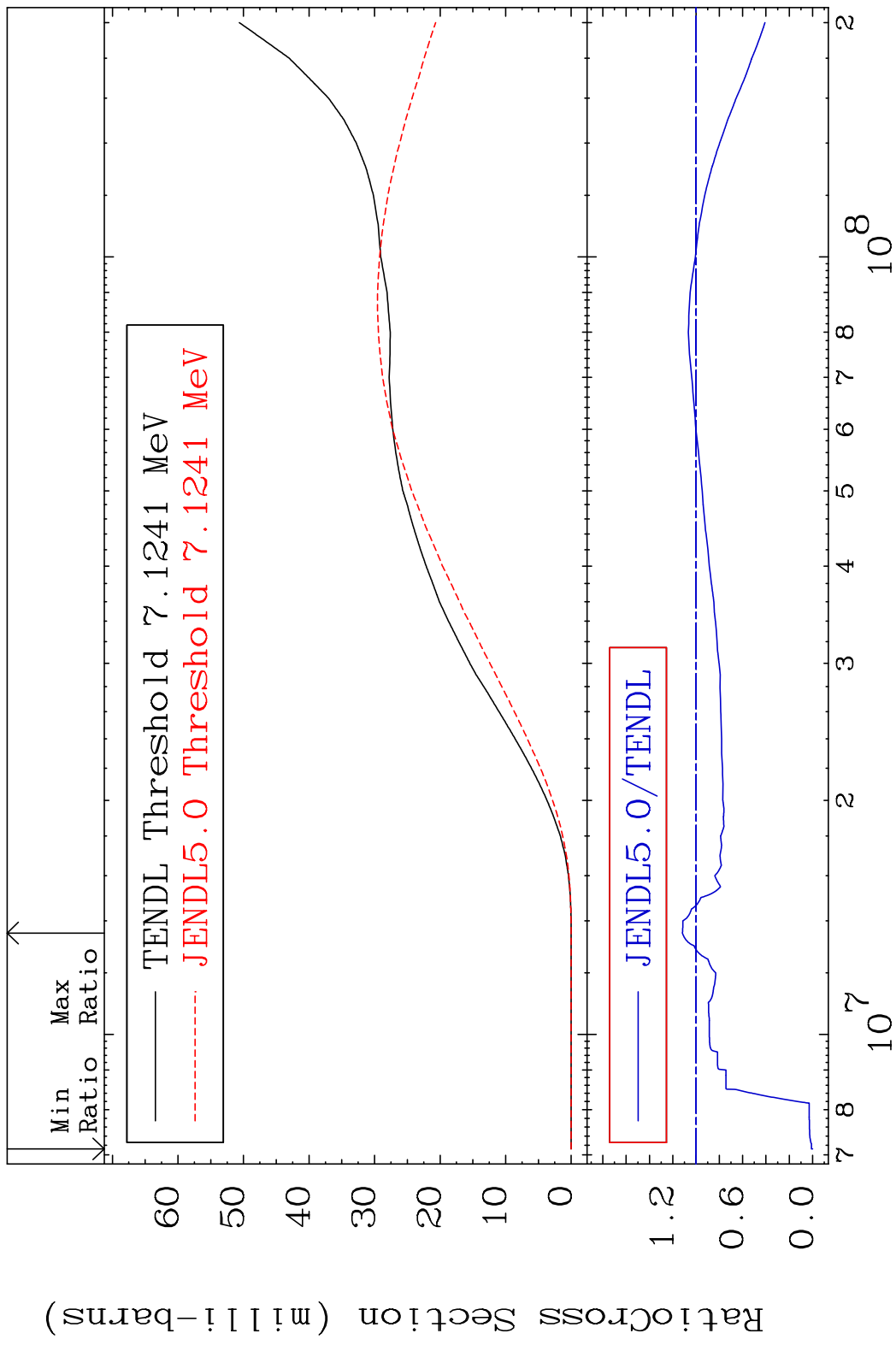


52 Incident Energy (eV) 42-Mo-93

Cross Section -49.05 To 9999. %



MAT 4228 Tritium Production 42-Mo-93  
 Cross Section -100.0 To 11.77 %

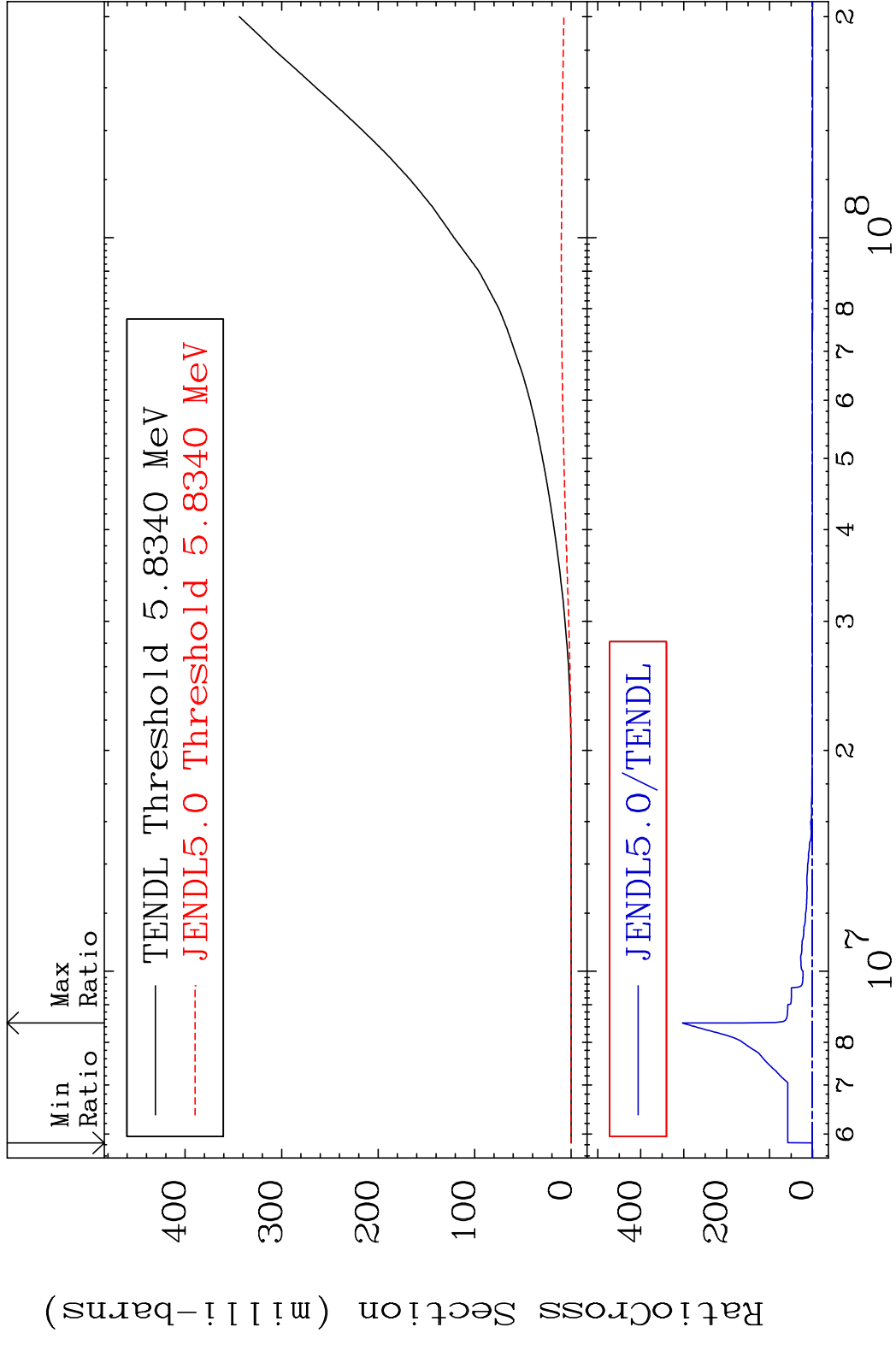


MAT 4228

He-3 Production

42-Mo-93

Cross Section -100.0 To 9999. %



55

Incident Energy (eV)

42-Mo-93

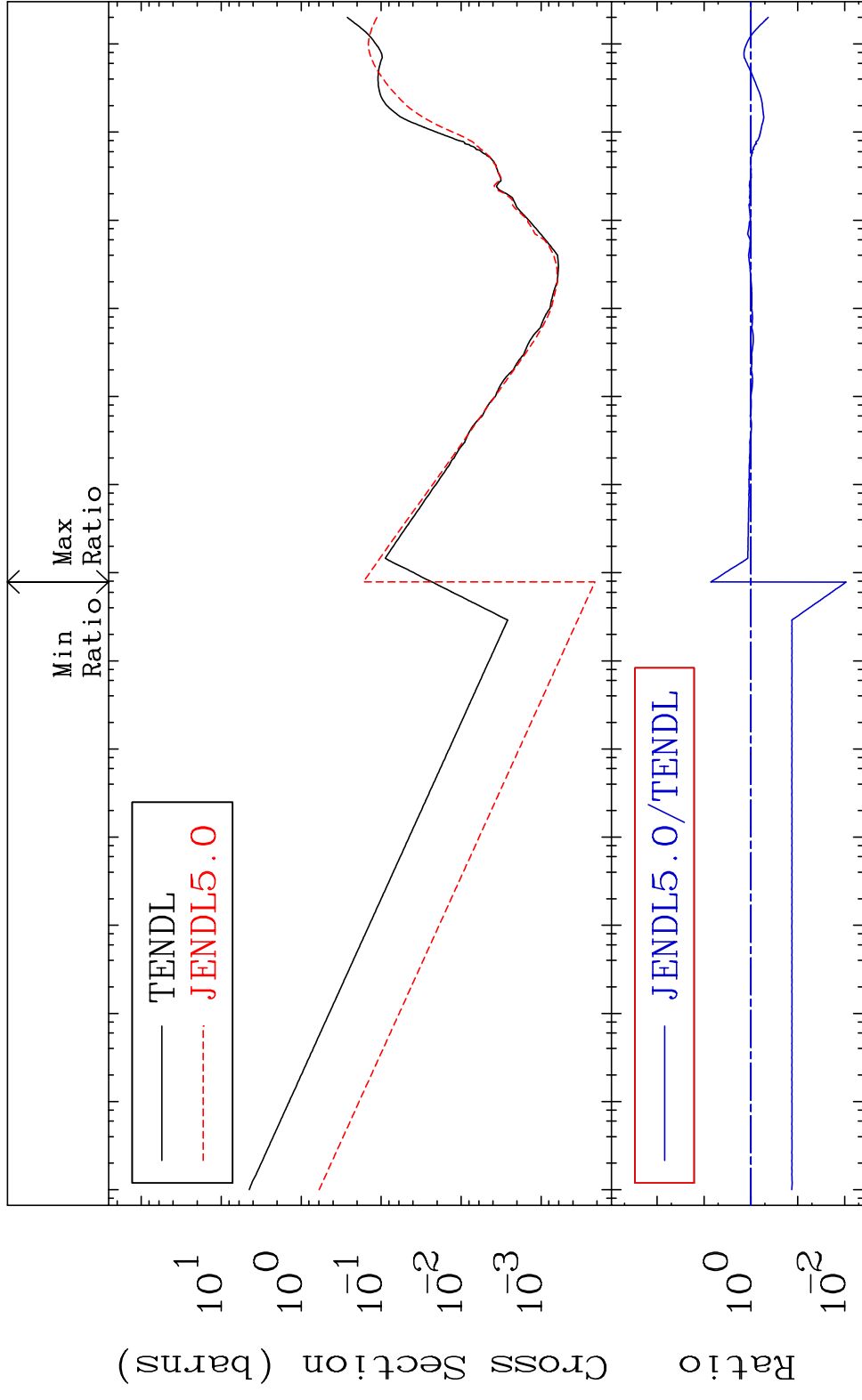


MAT 4228

He-4 Production

42-Mo-93

Cross Section -99.08 To 619.9 %

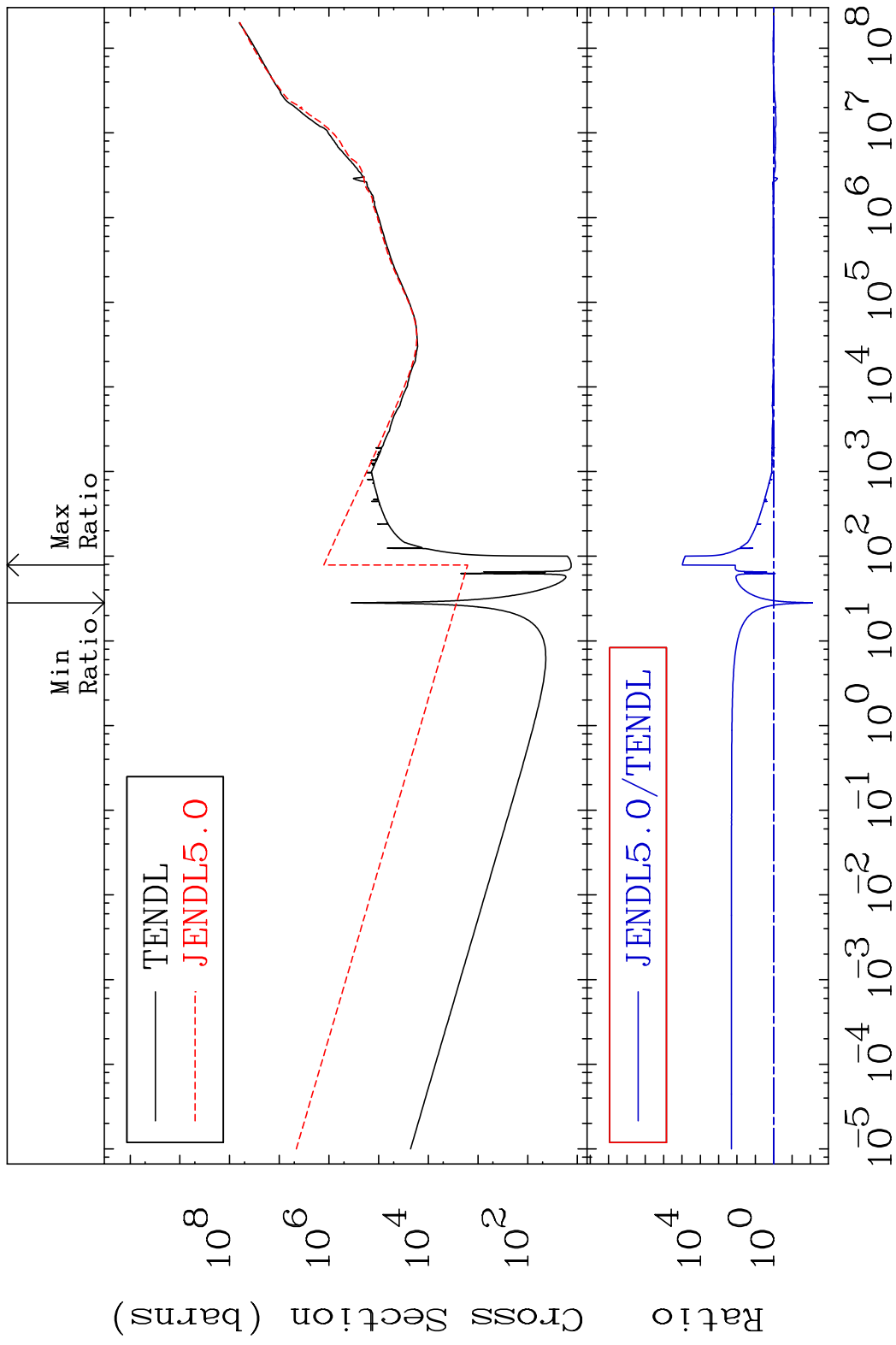


56

Incident Energy (eV)

42-Mo-93

MAT 4228 Kerma total (eV-barns) 42-Mo-93  
 Cross Section -99.24 To 9999. %

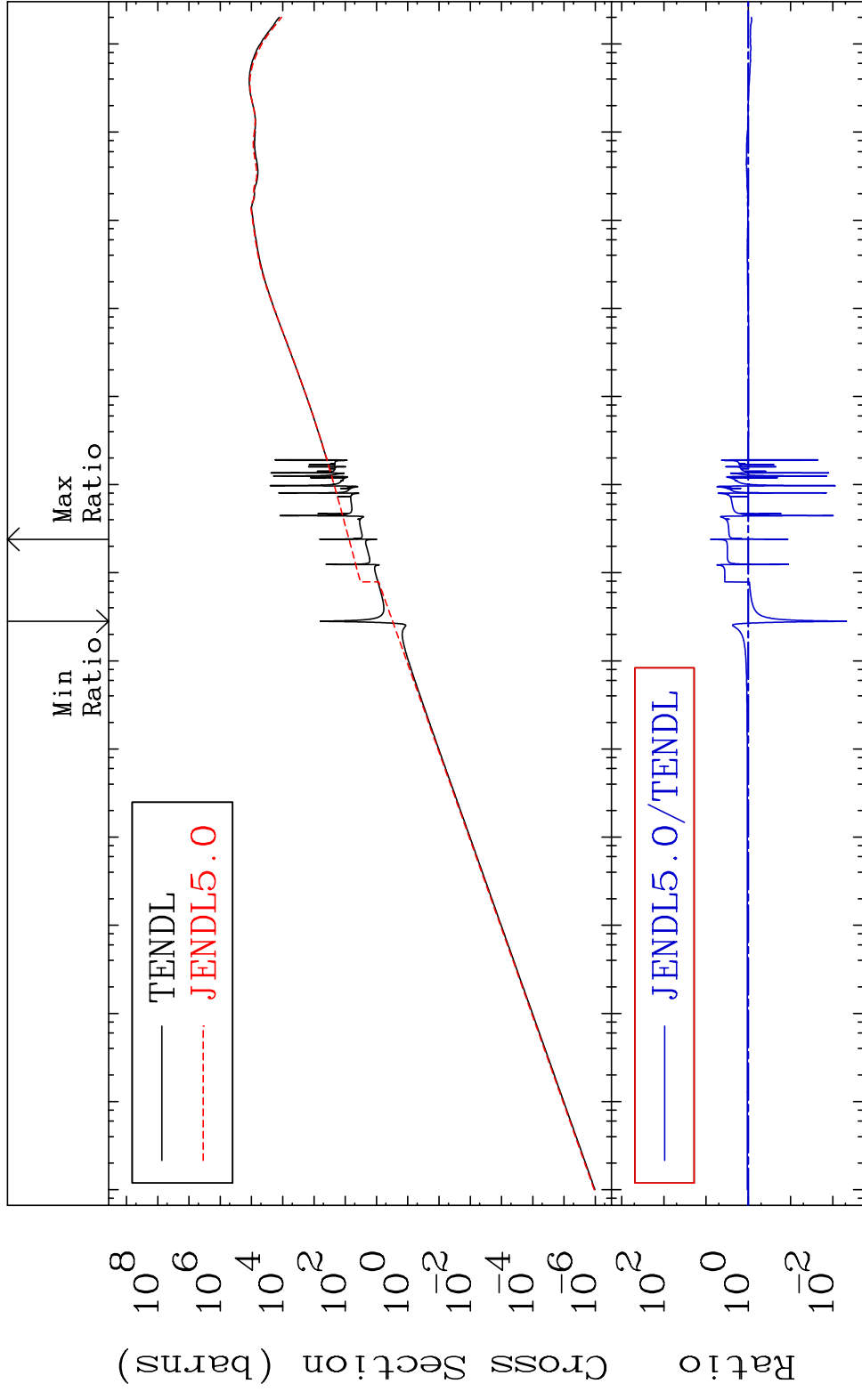


MAT 4228

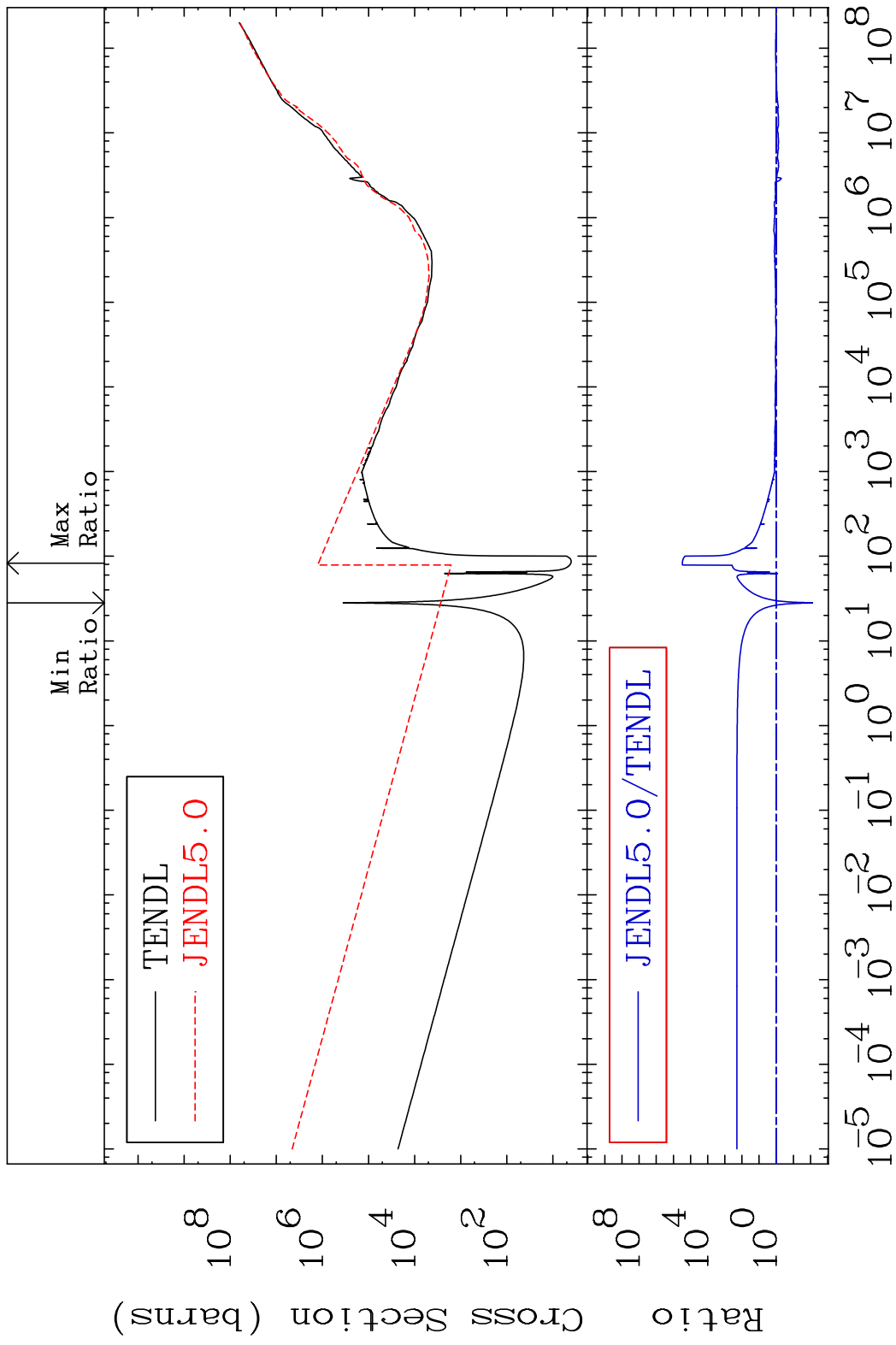
Kerma elastic  
Cross Section

42-Mo-93

-99.52 To 678.0 %

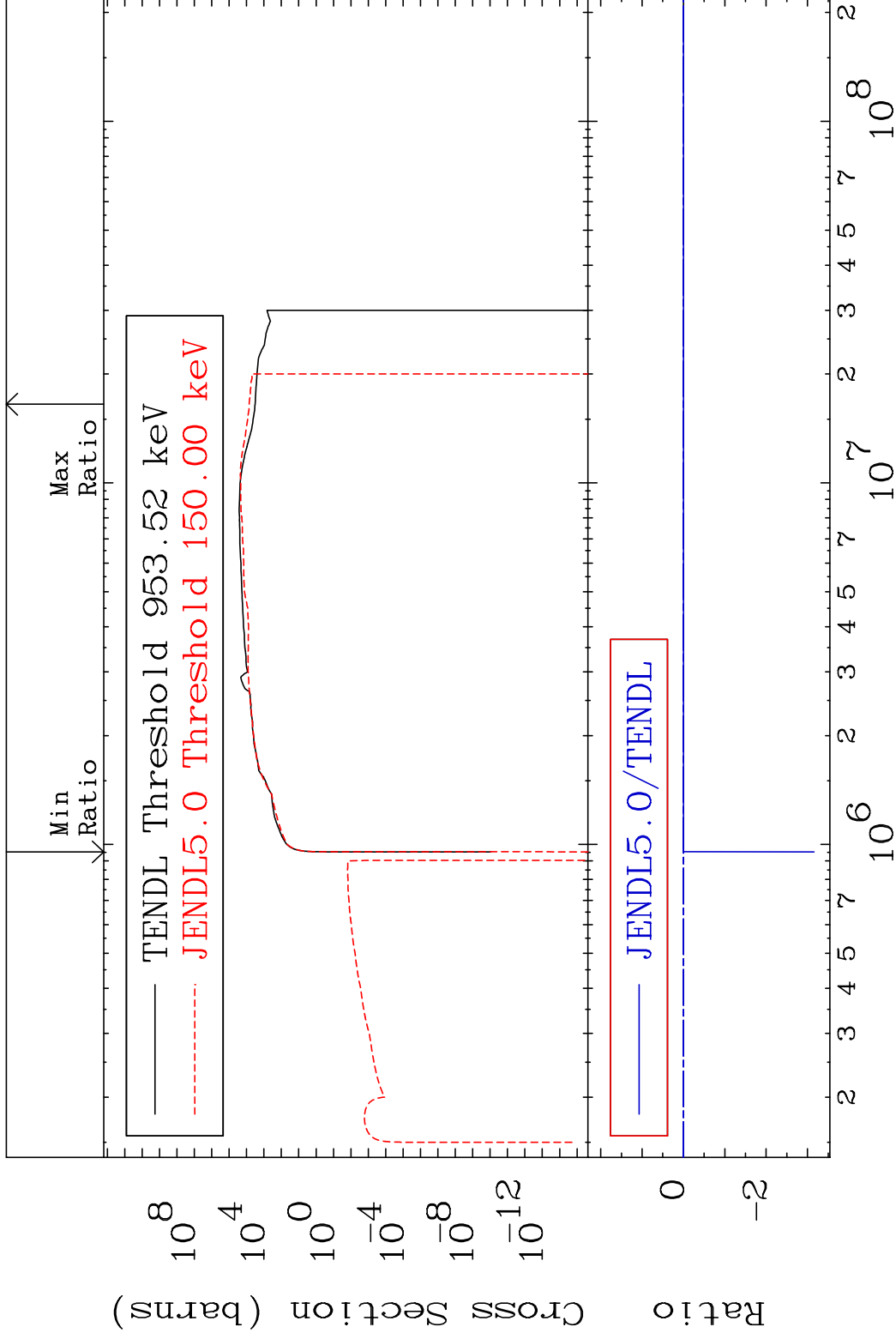


MAT 4228 Kerma non-elastic (all but mt2) 42-Mo-93  
 Cross Section -99.24 To 9999. %



MAT 4228

Kerma inelastic (mt51-91) 42-Mo-93  
Cross Section -9999. To 120.2 %

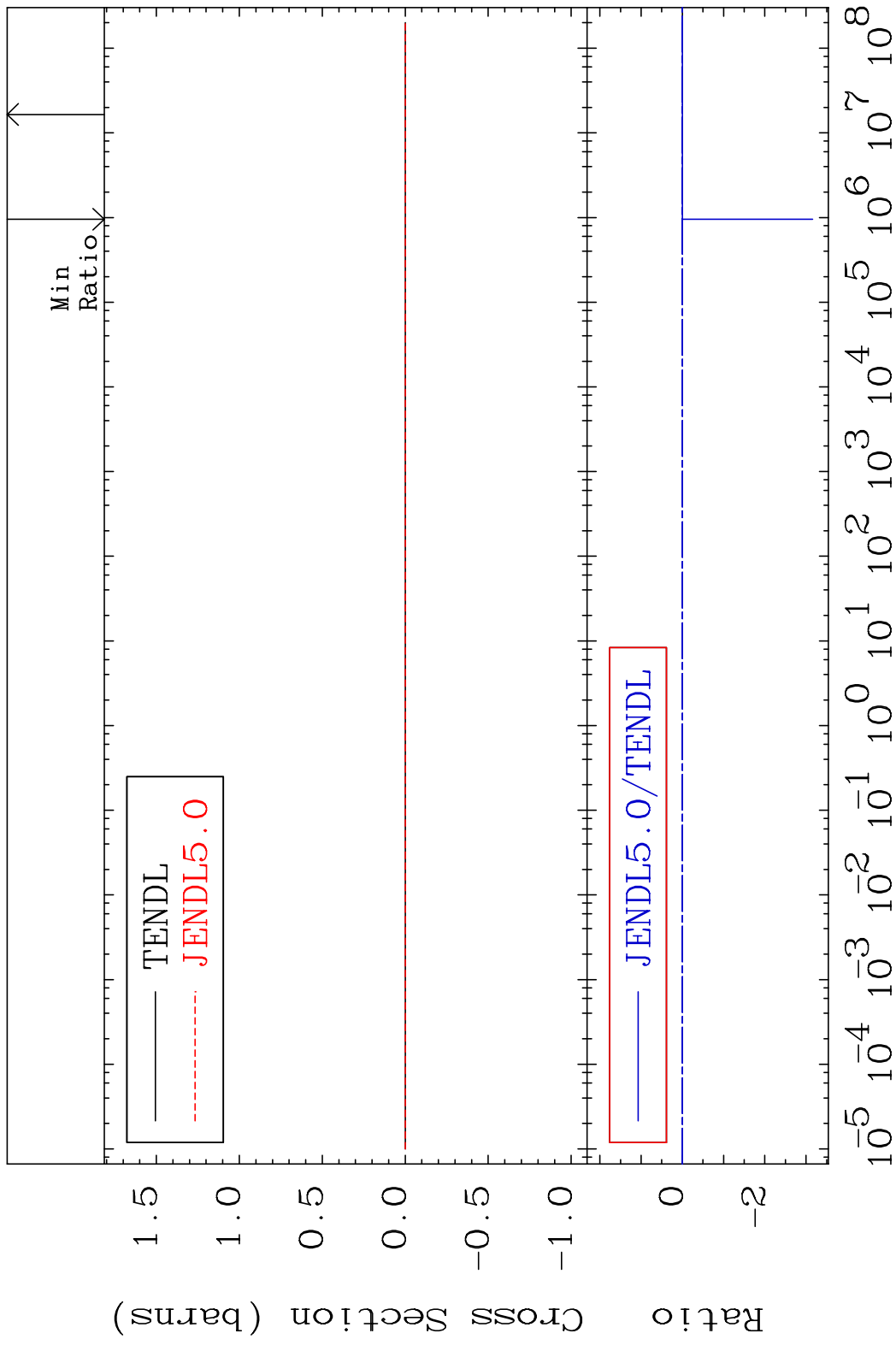


60

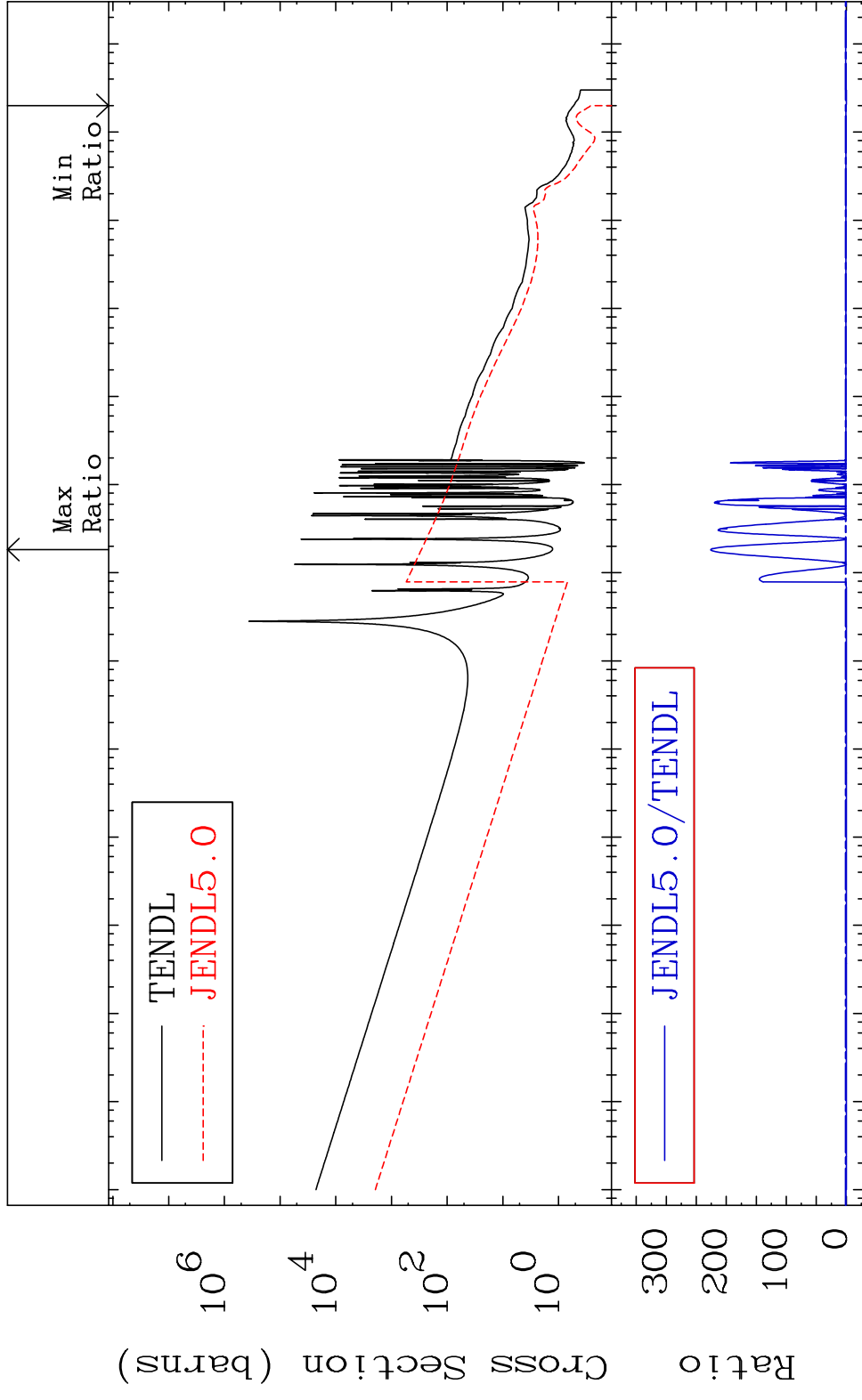
Incident Energy (eV)

42-Mo-93

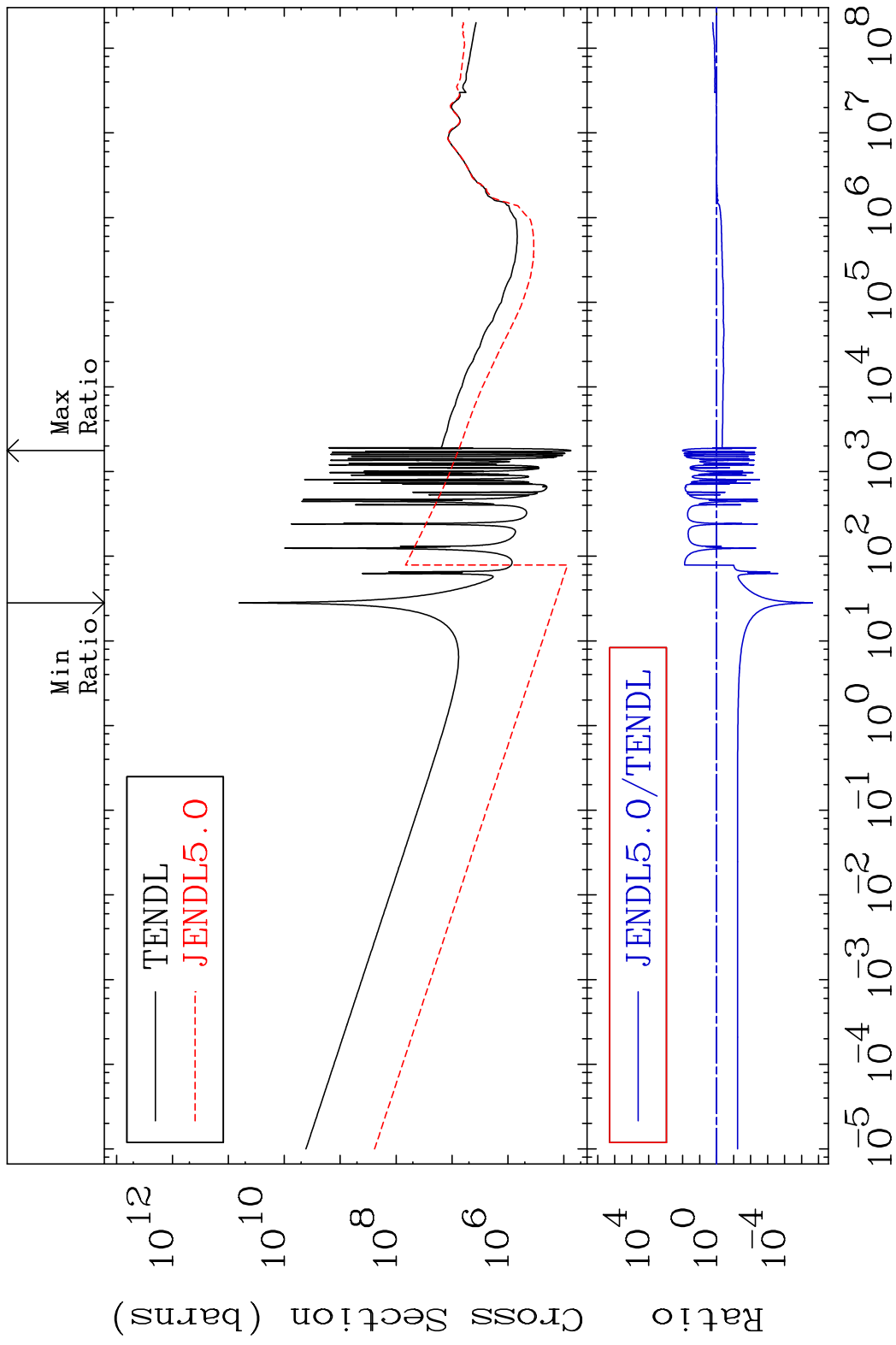
MAT 4228 Kerma fission (mt18 or mt19-20-21-38) 42-Mo-93  
 Cross Section -9999. To 120.2 %



MAT 4228 Kerma capture (mt102) 42-Mo-93  
 Cross Section -100.0 To 9999. %



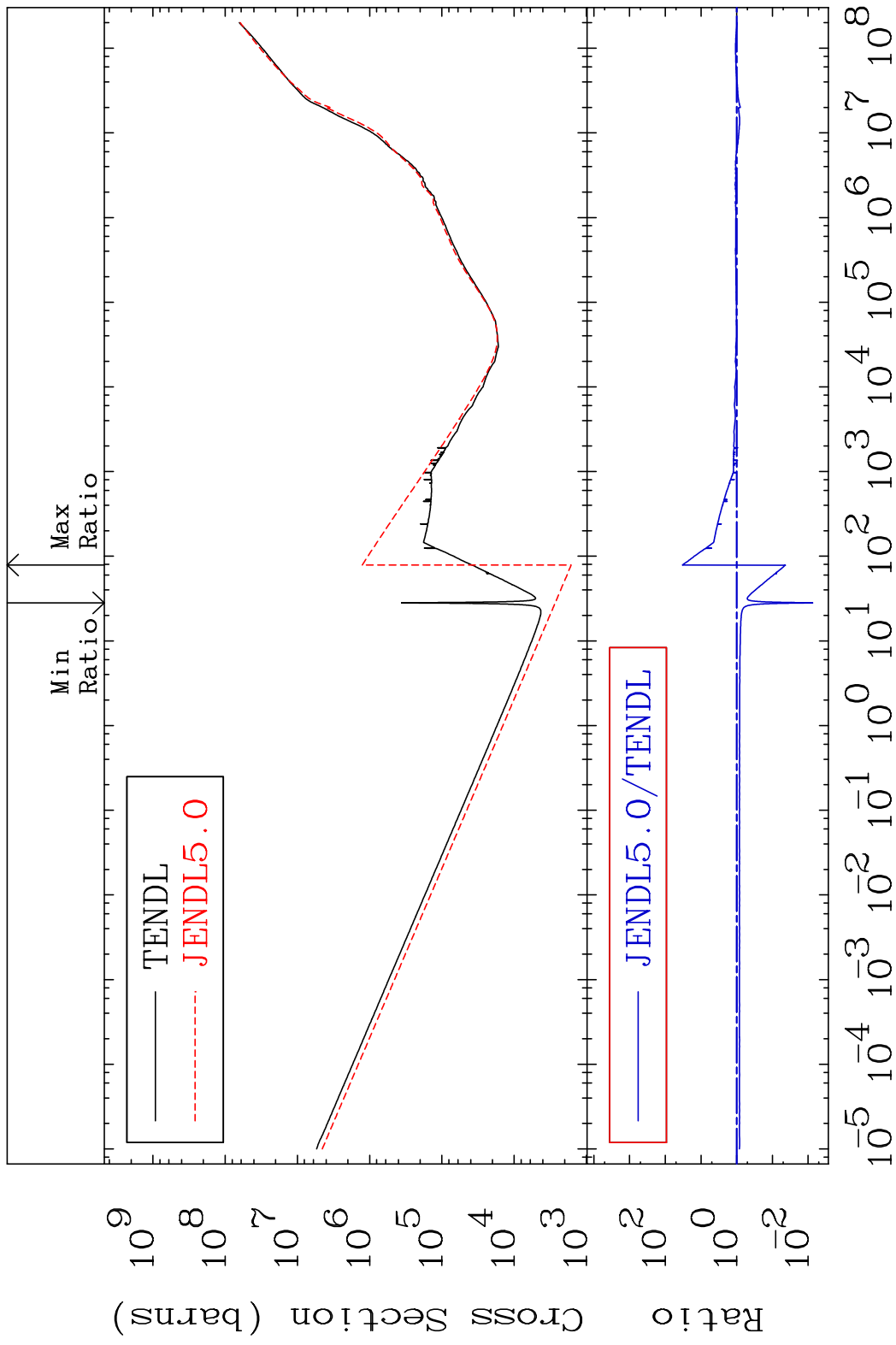
MAT 4228 Total photon (eV-barns) 42-Mo-93  
Cross Section -100.0 To 9999. %



63 Incident Energy (eV) 42-Mo-93



MAT 4228 Total kinematic kerma (high limit) 42-Mo-93  
 Cross Section -99.25 To 3225. %

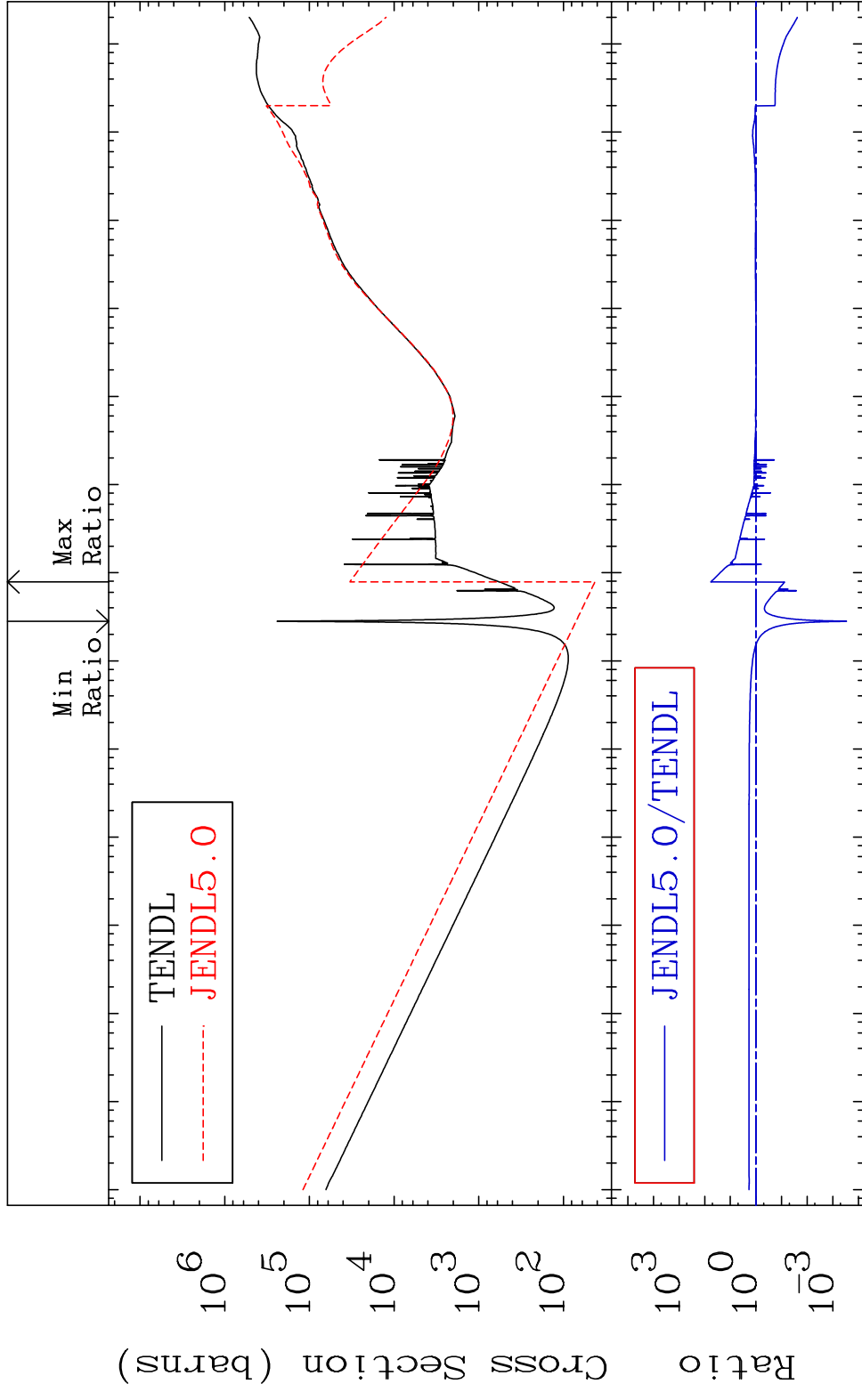


MAT 4228

Dpa total (eV-barns)

42-Mo-93

Cross Section -99.97 To 5739. %



65

Incident Energy (eV)

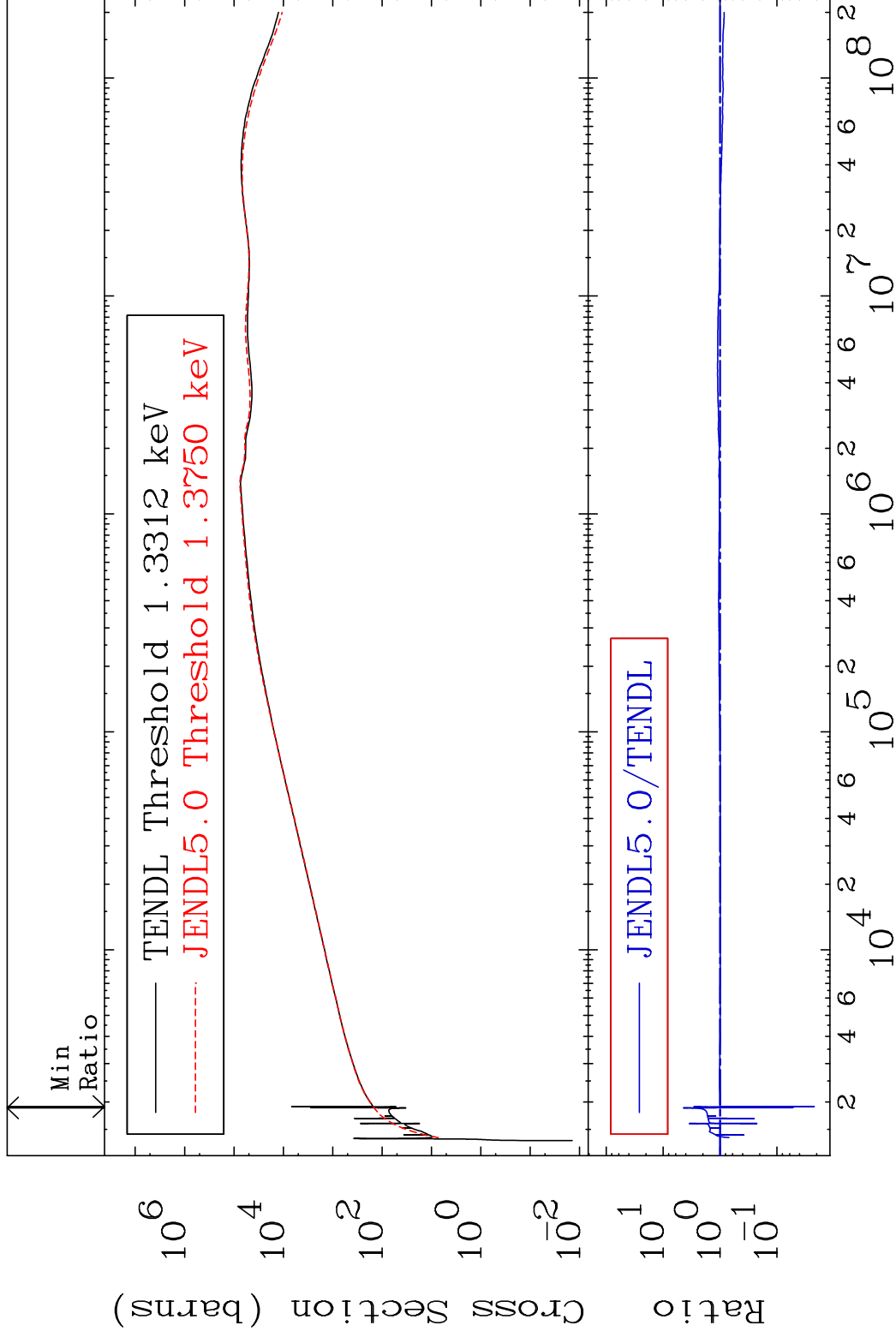
42-Mo-93

MAT 4228

Dpa elastic (mt2)

42-Mo-93

Cross Section -97.777 To 336.0 %

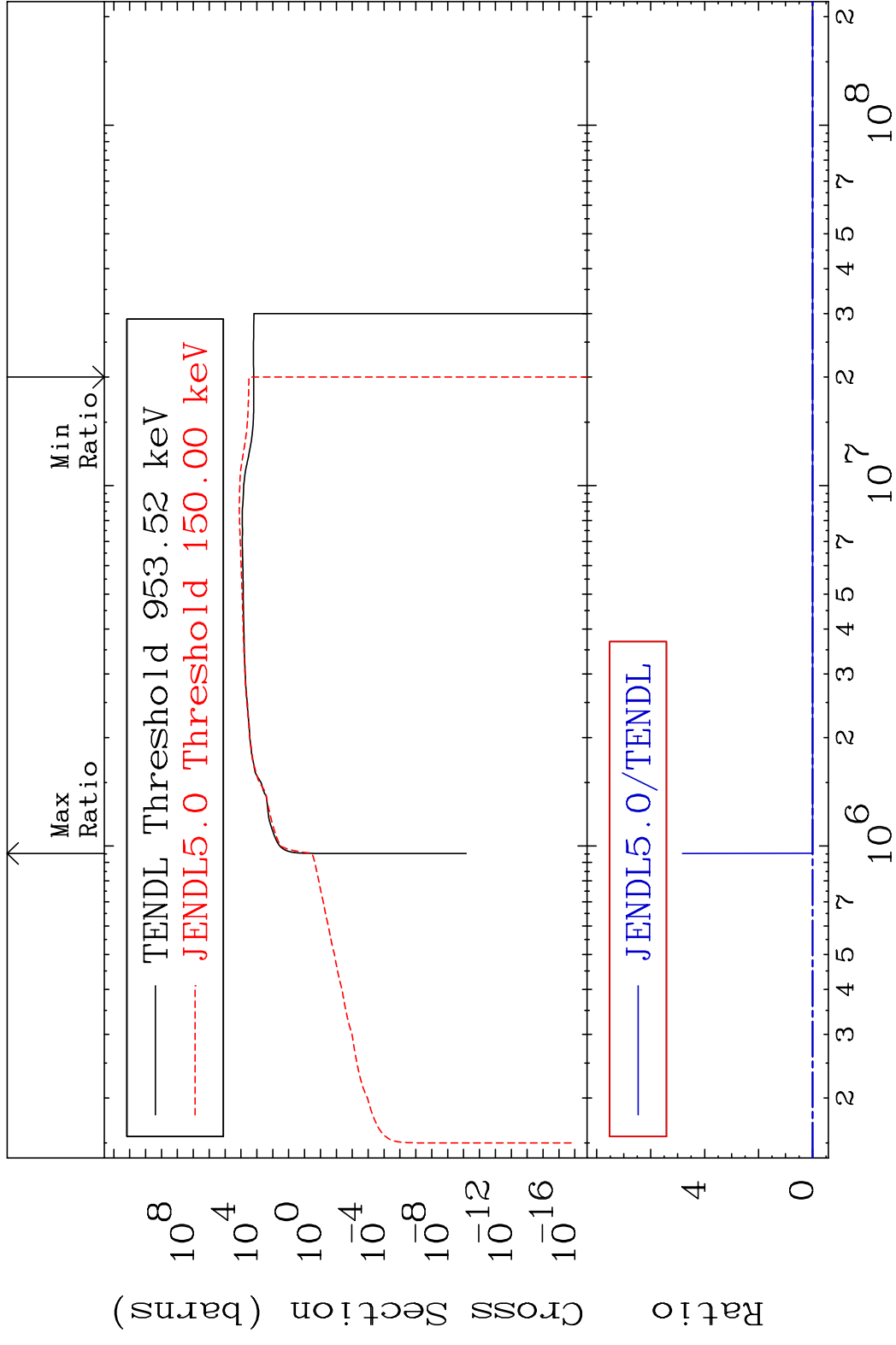


66

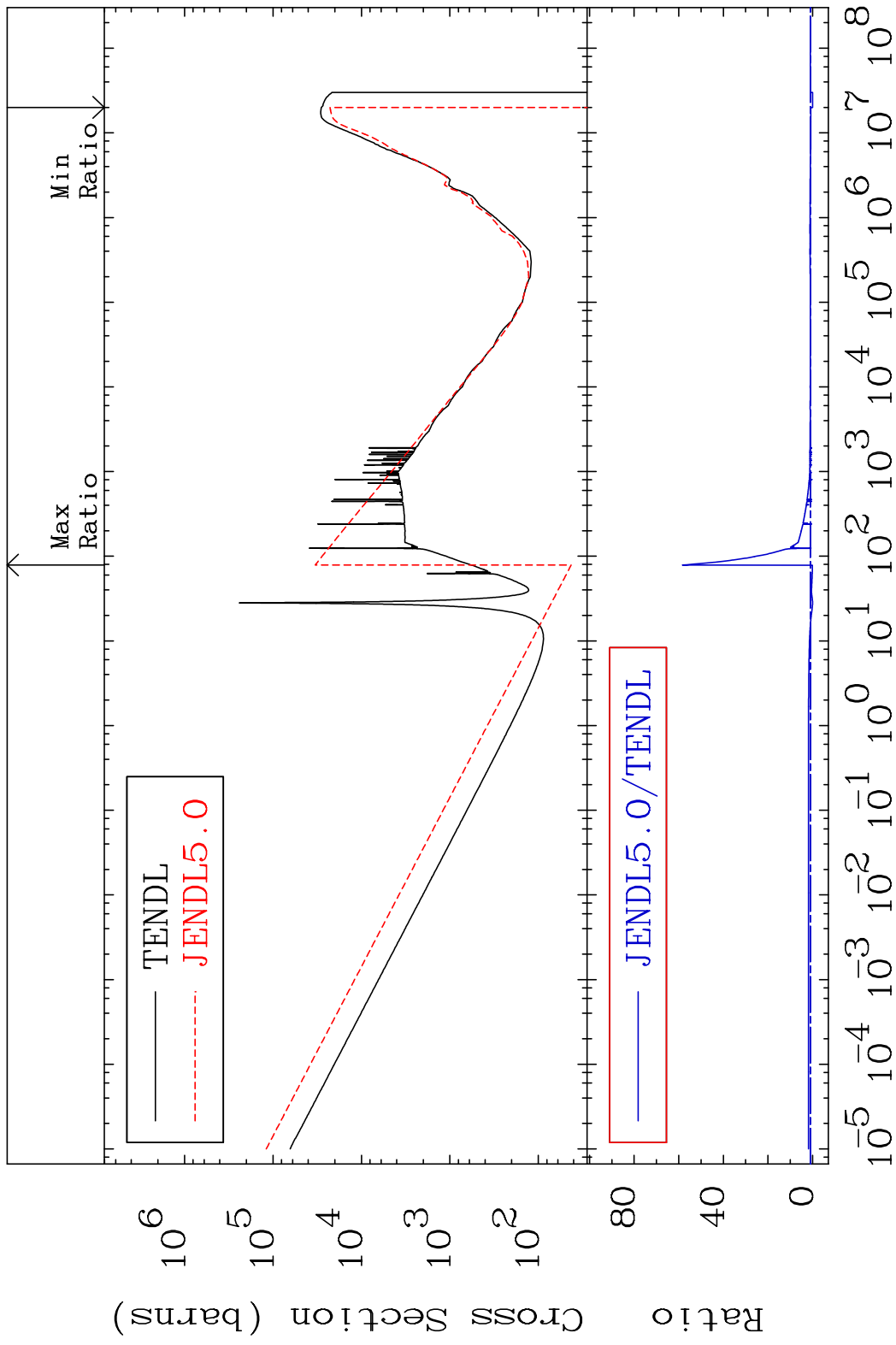
Incident Energy (eV)

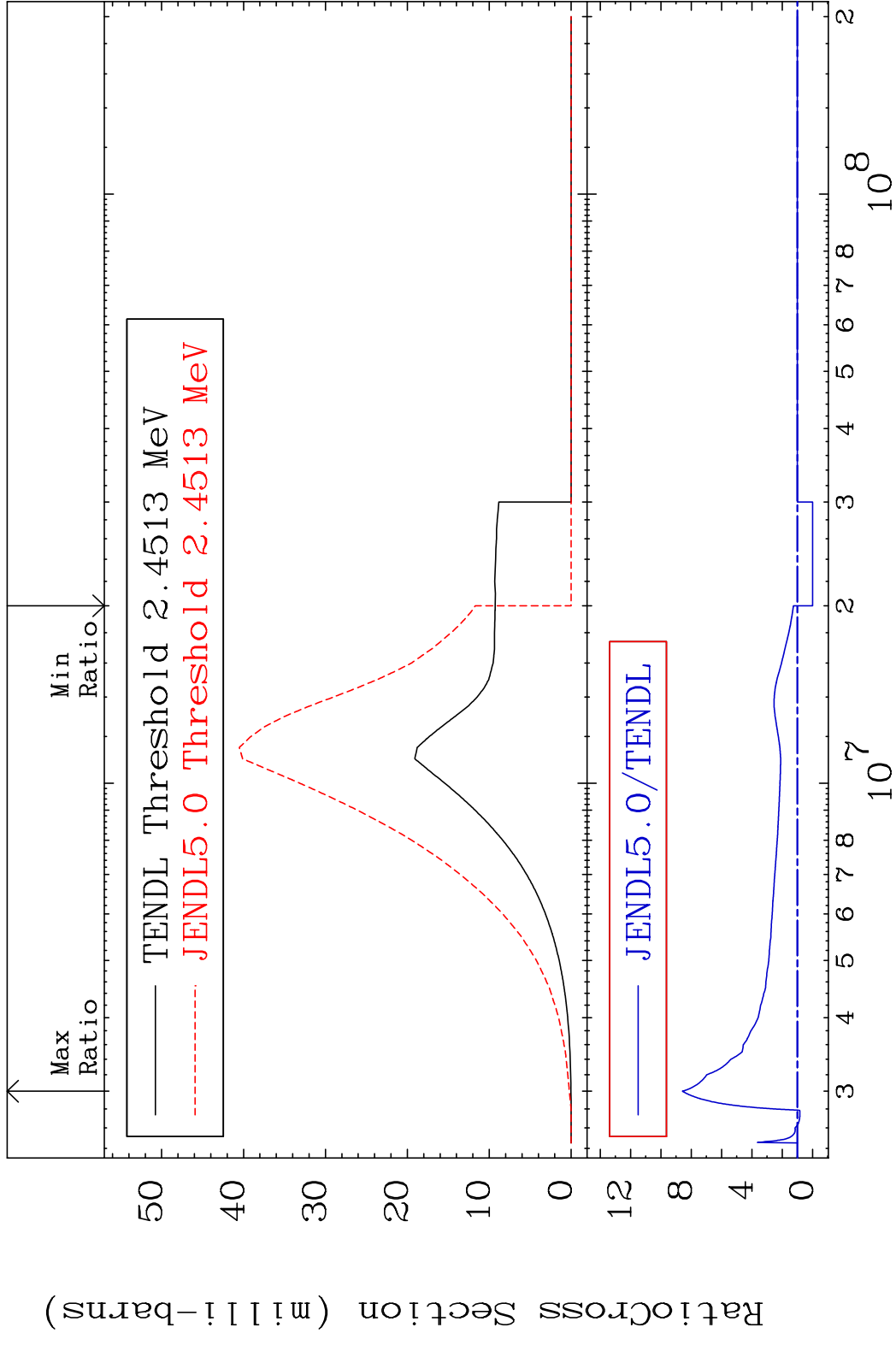
42-Mo-93

MAT 4228 Dpa inelastic (mt51-91) 42-Mo-93  
 Cross Section -100.0 To 9999. %

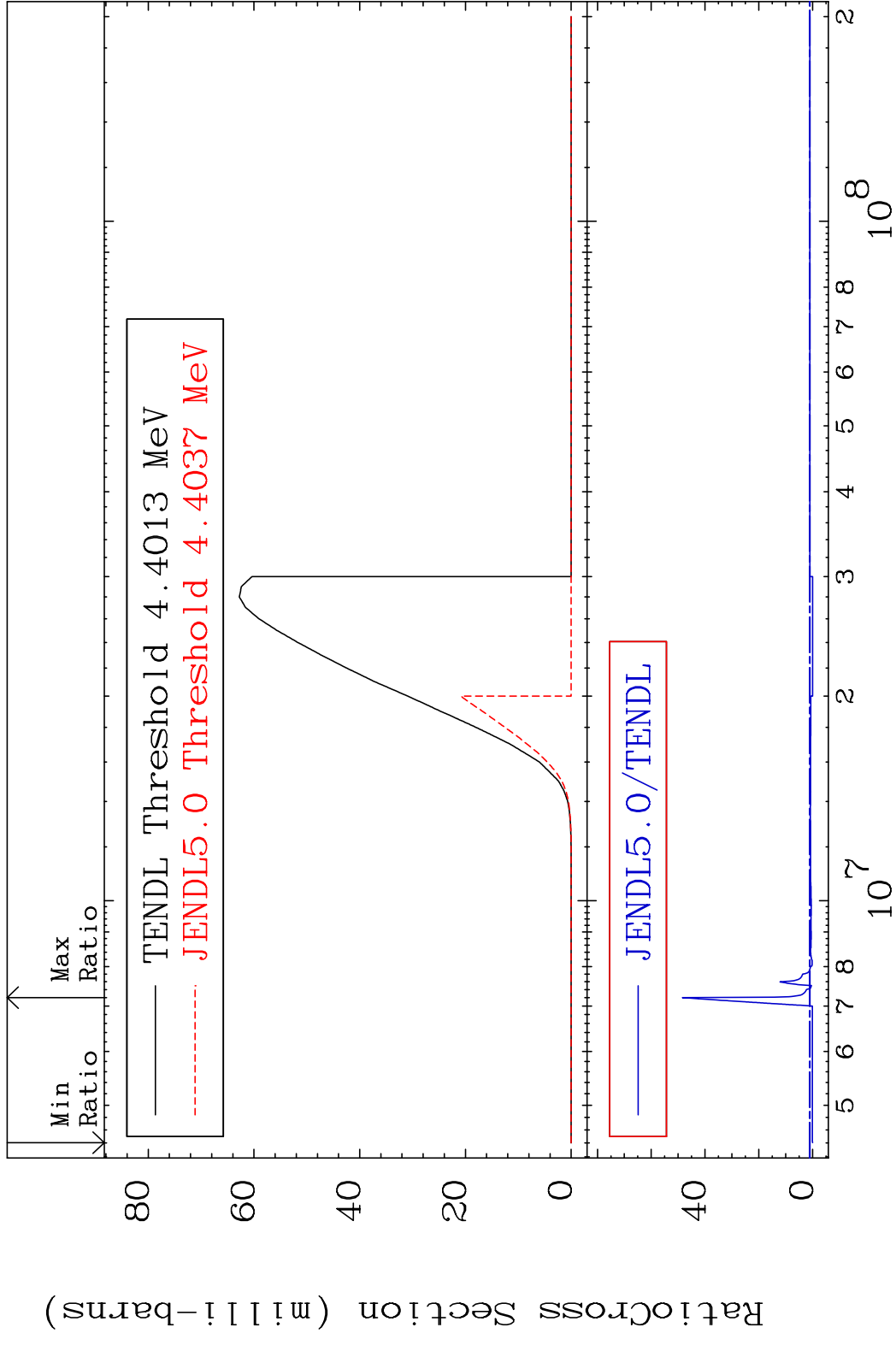


MAT 4228 Dpa disappearance (mt102 -120) 42-Mo-93  
 Cross Section -100.0 To 5739. %

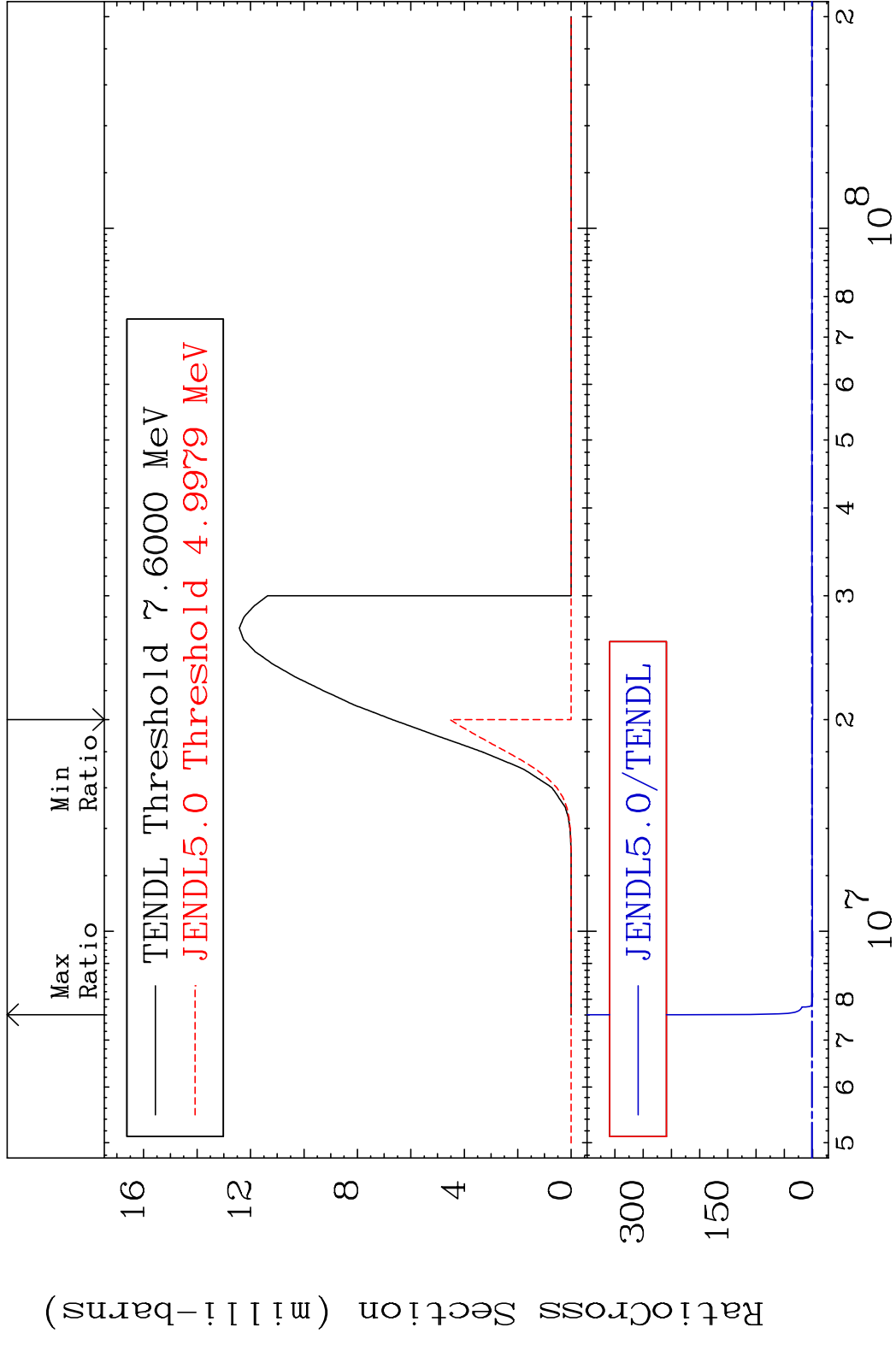




MAT 4228 (n, n')  $\alpha$ : 40-Zr-89g 42-Mo-93  
 Radionuclide Production Cross Section 1800 d to 4743. %

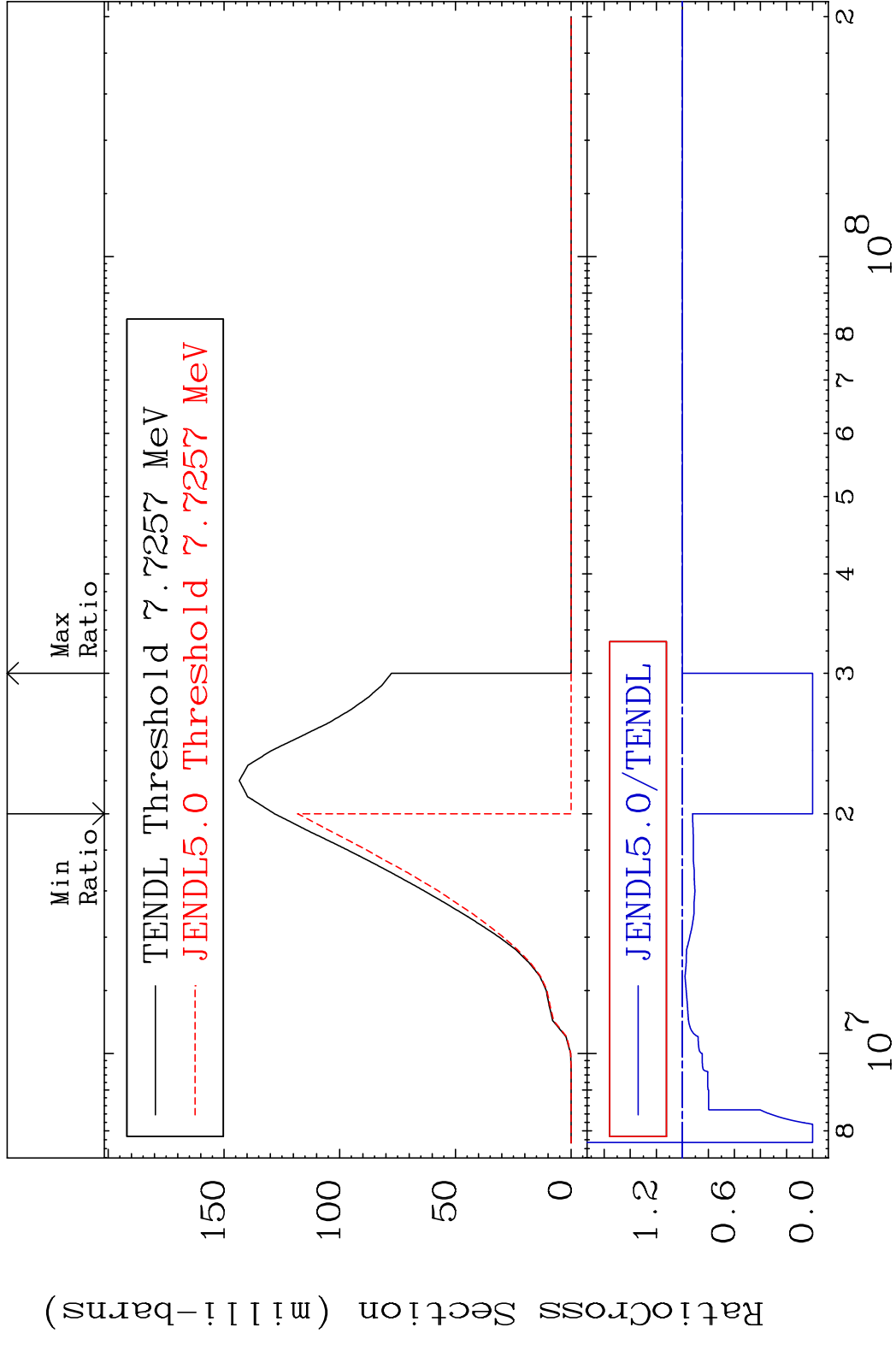


70 Incident Energy (eV) 42-Mo-93



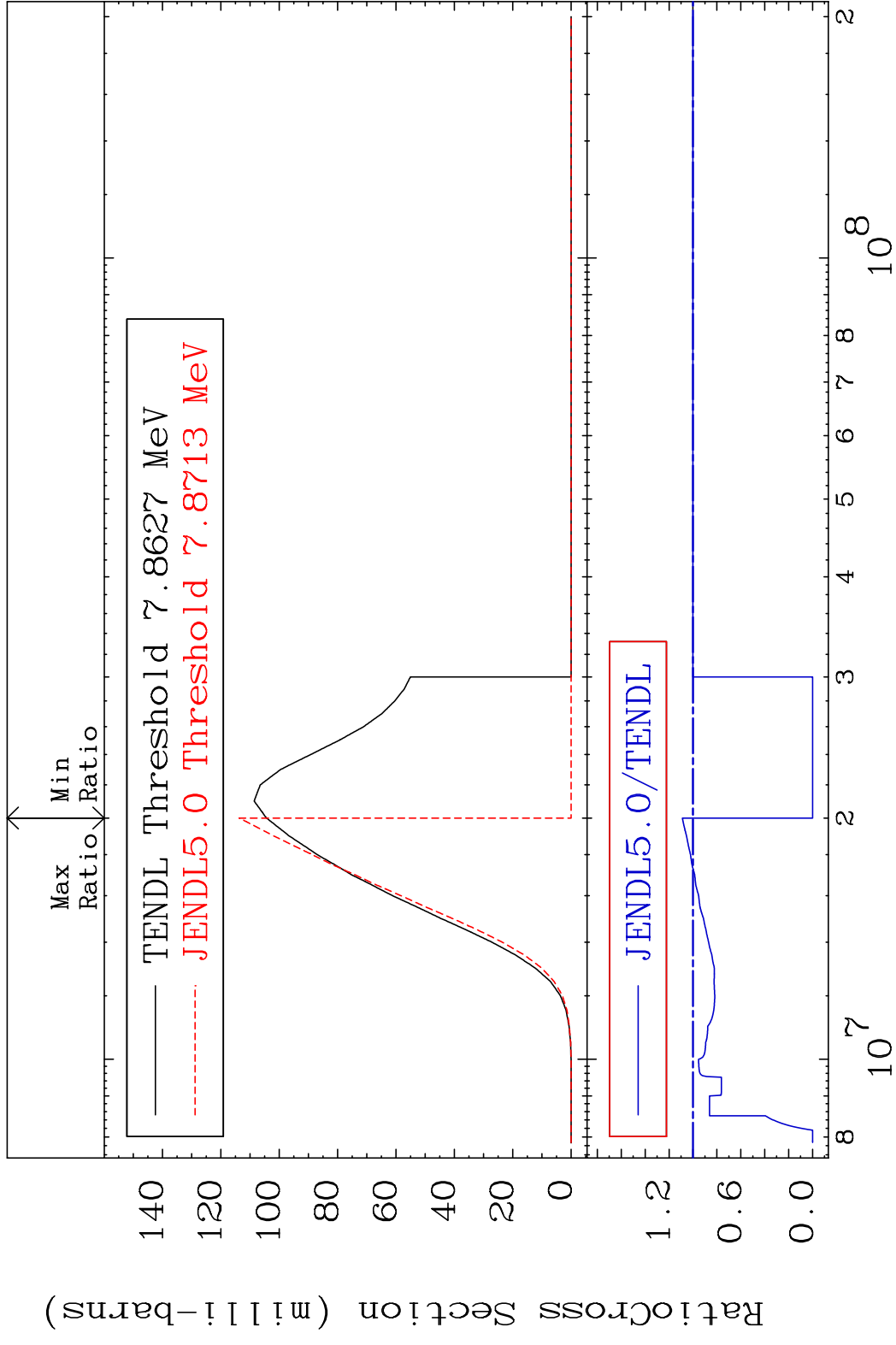


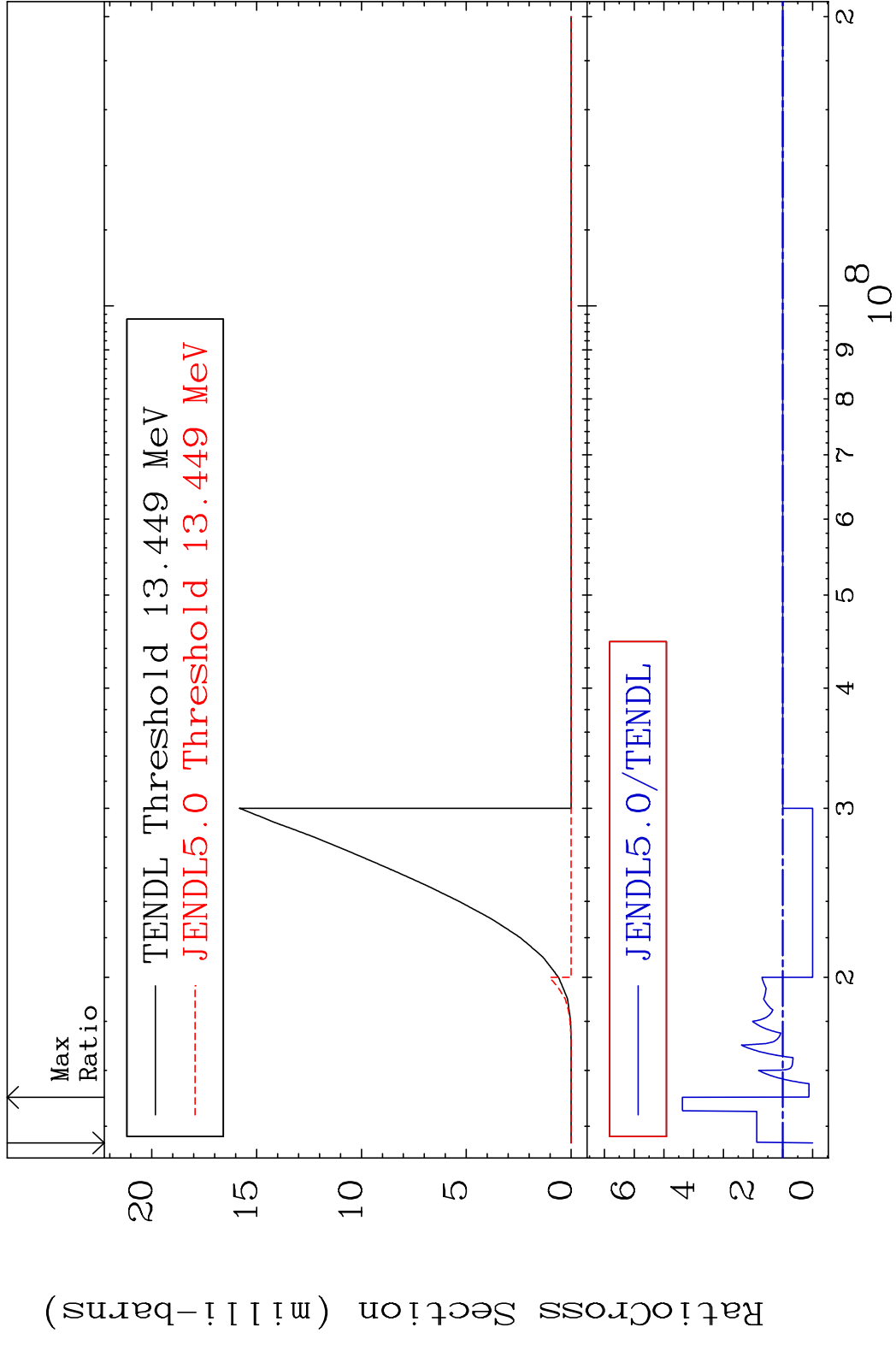
MAT 4228 (n, n') p:41-Nb-92g 42-Mo-93  
 Radionuclide Production Cross Section Ratio 0.000 %



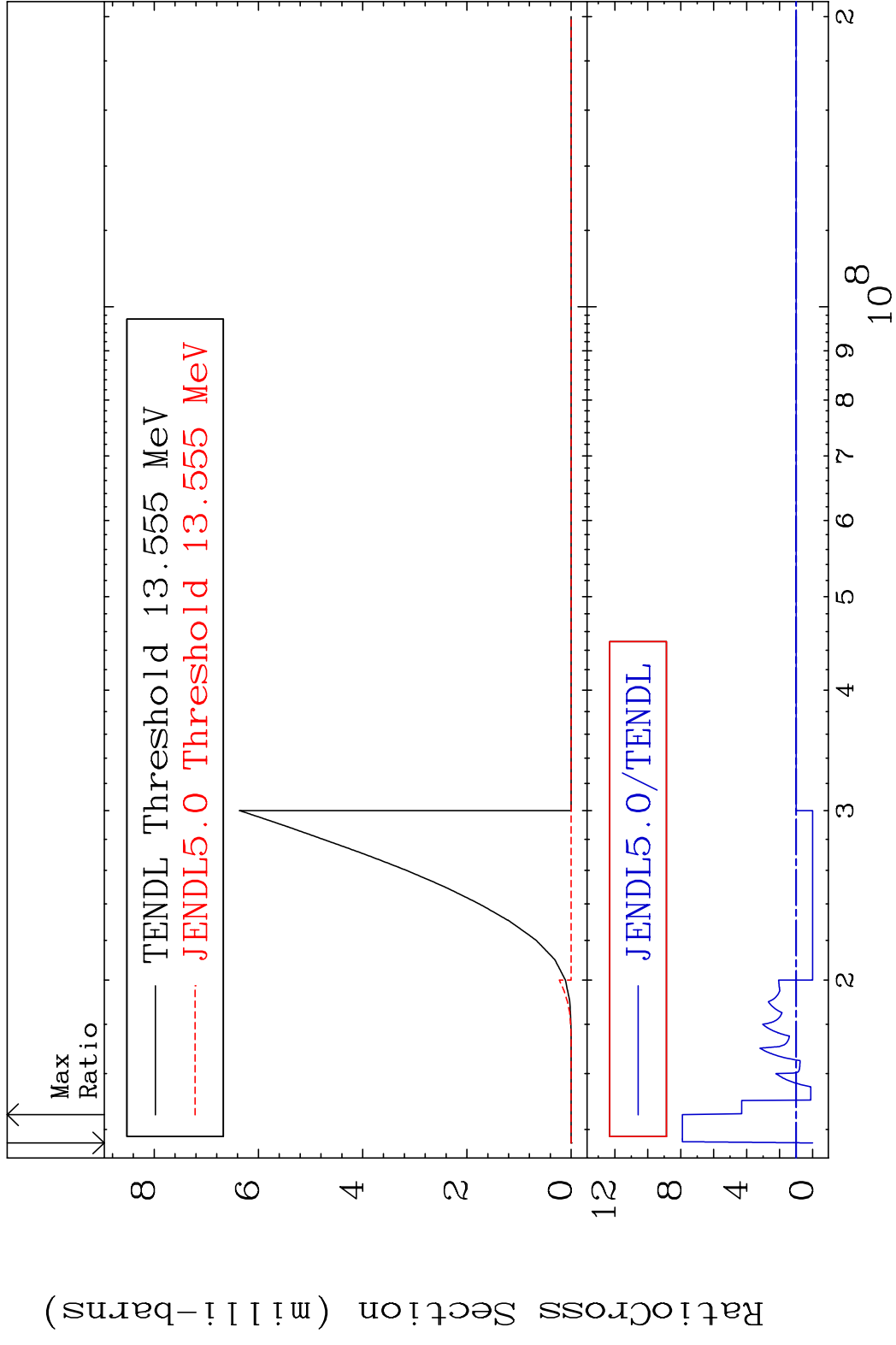
72 Incident Energy (eV) 42-Mo-93

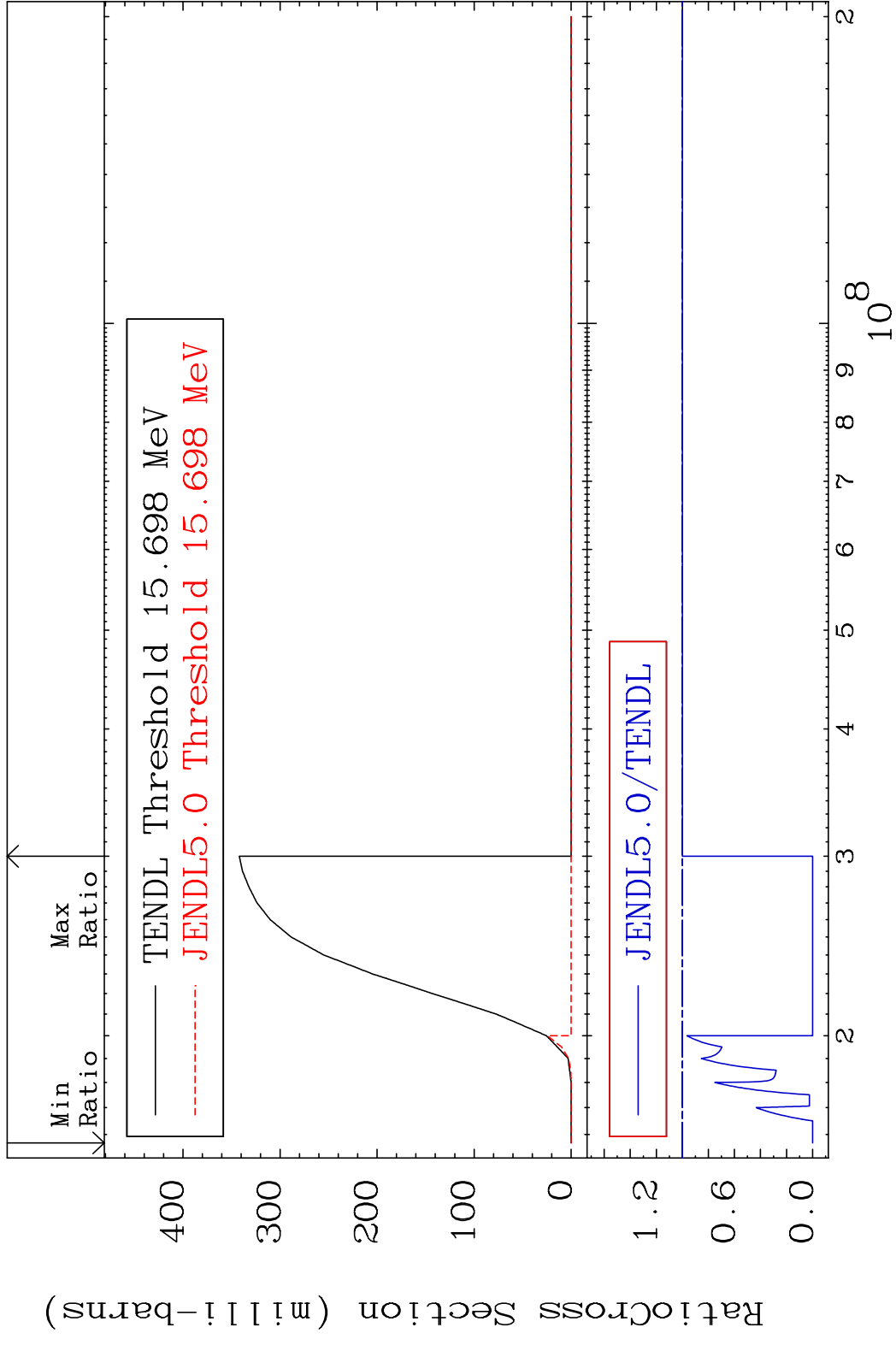
MAT 4228 (n, n') p:41-Nb-92m1 42-Mo-93  
 Radionuclide Production Cross Section 180.0 mb 8.890 %



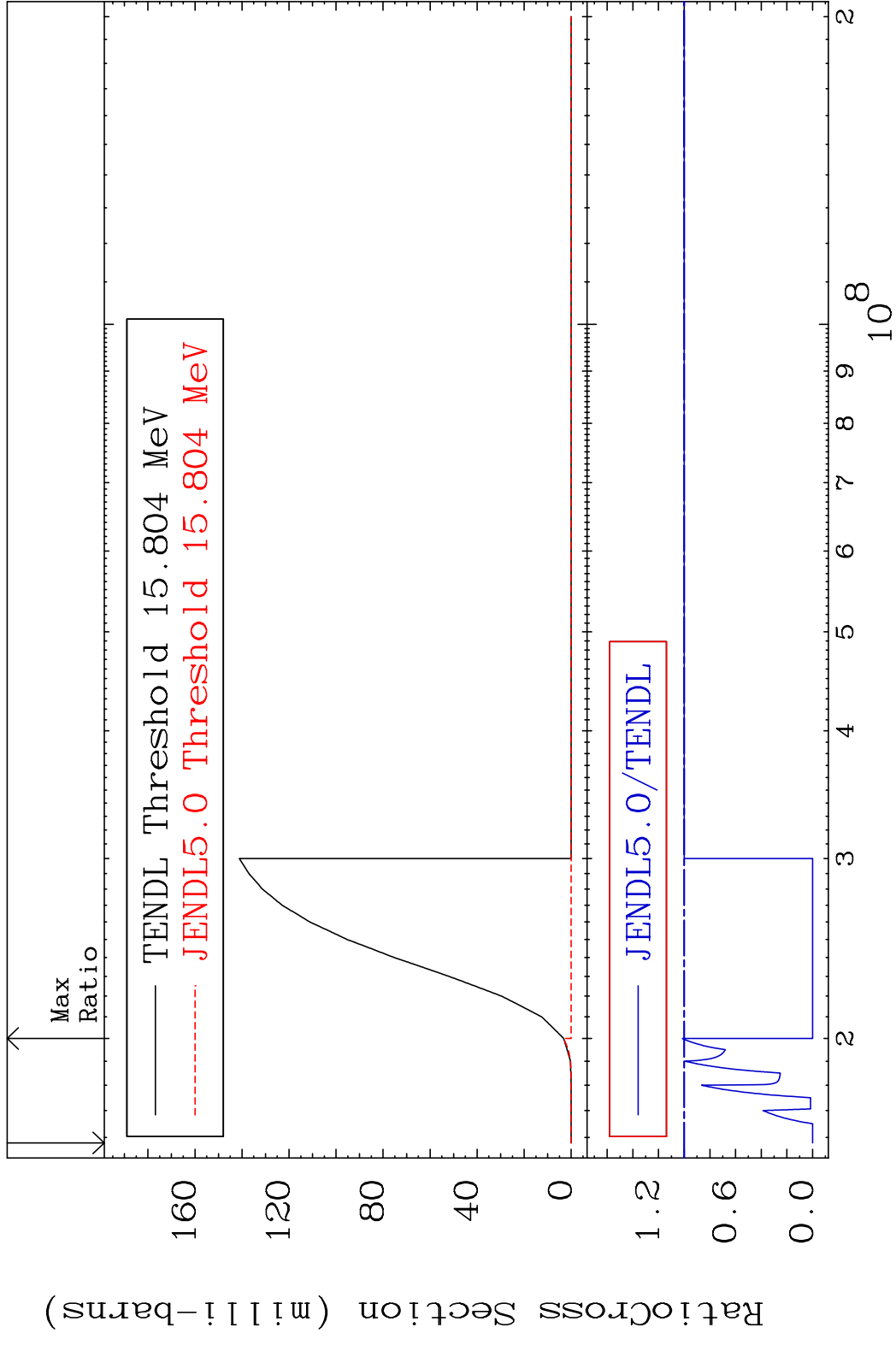


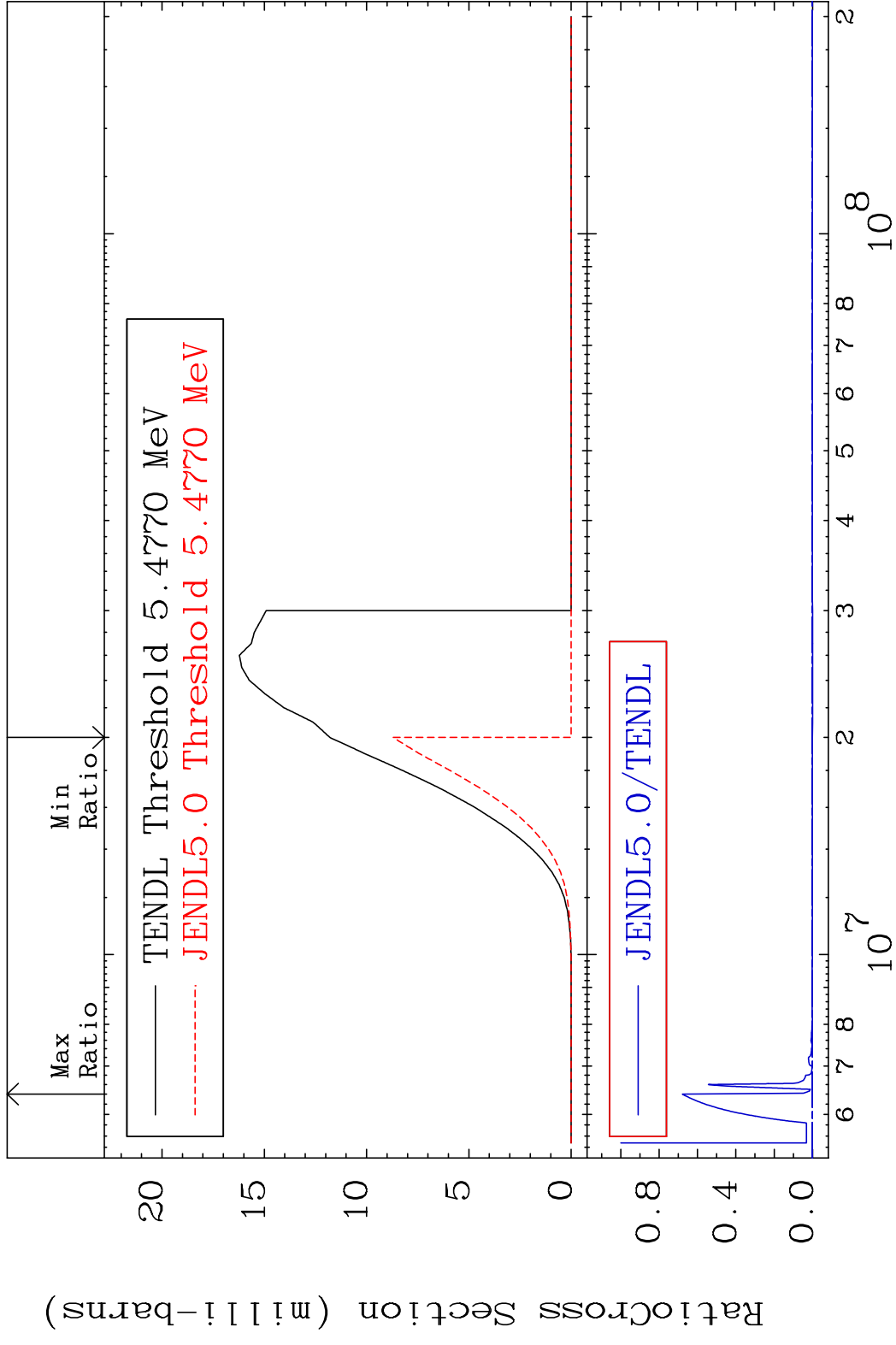
MAT 4228 (n, n') d:41-Nb-91m1 42-Mo-93  
 Radionuclide Production Cross Section 690.0 %



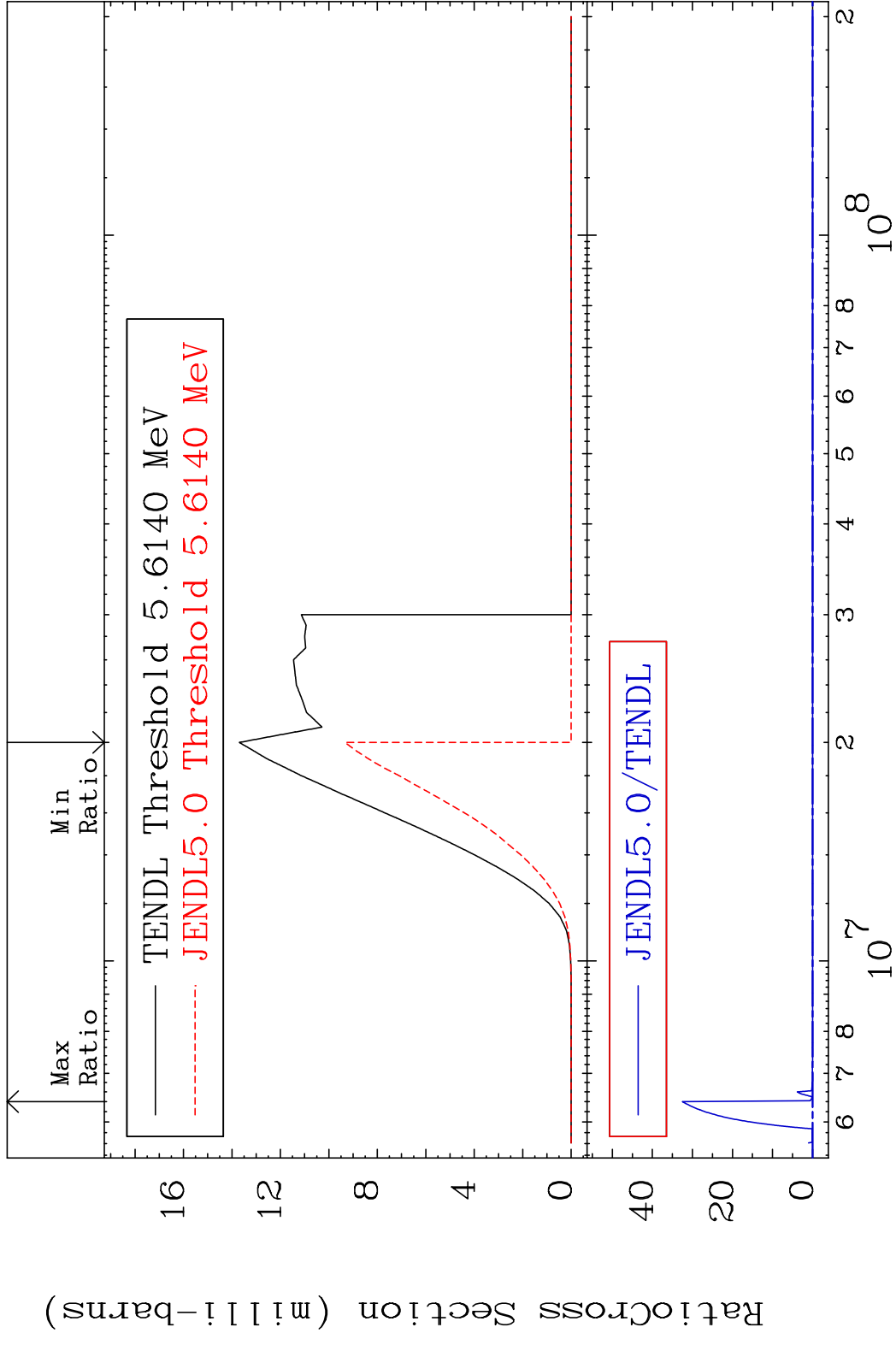


MAT 4228 (n,2n) p:41-Nb-91m1 42-Mo-93  
 Radionuclide Production Cross Section Ratio 1.439 %





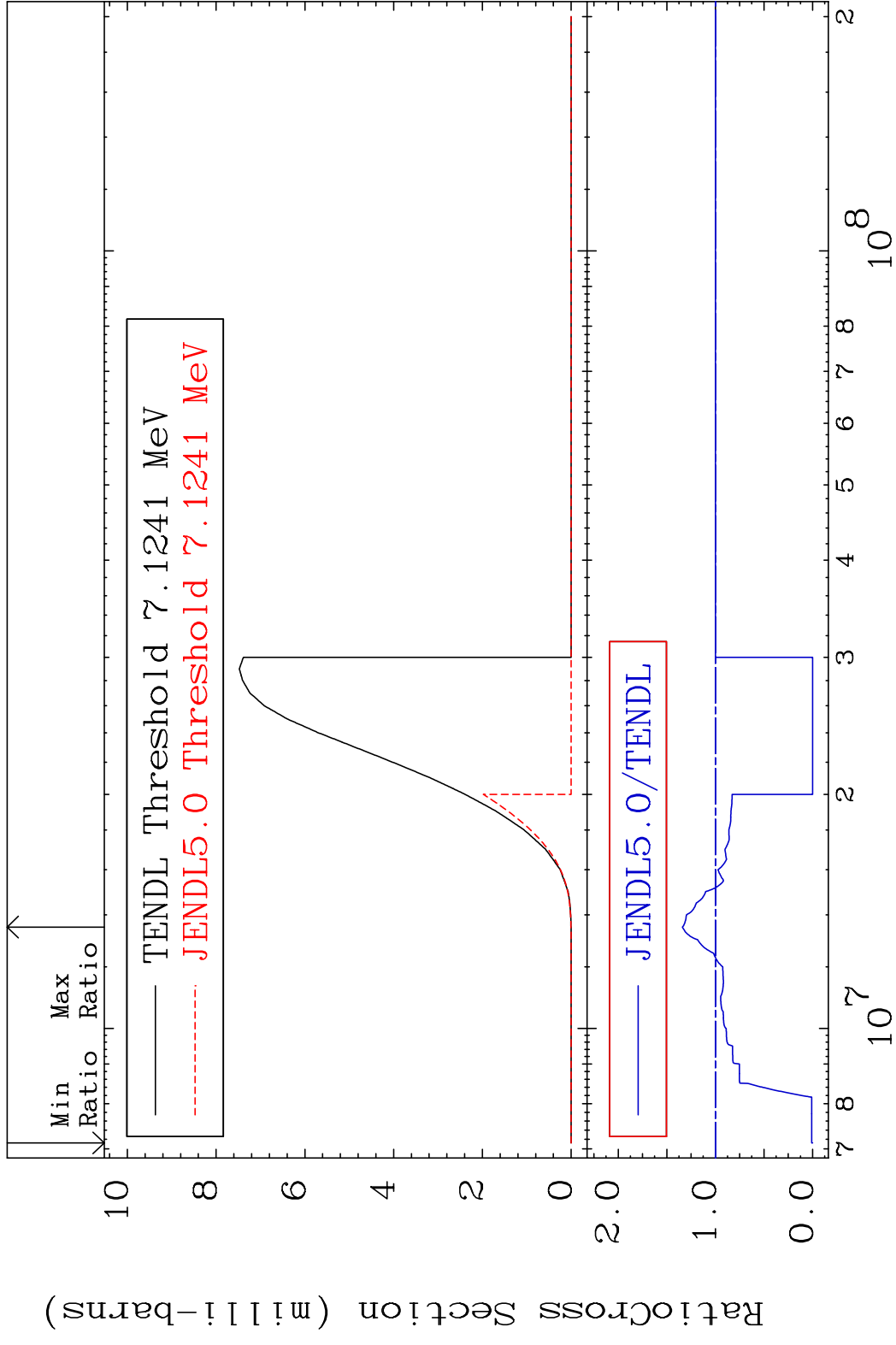
MAT 4228 (n,d):41-Nb-92m1 42-Mo-93  
 Radionuclide Production Cross Section 1000 to 9999. %



79 Incident Energy (eV) 42-Mo-93

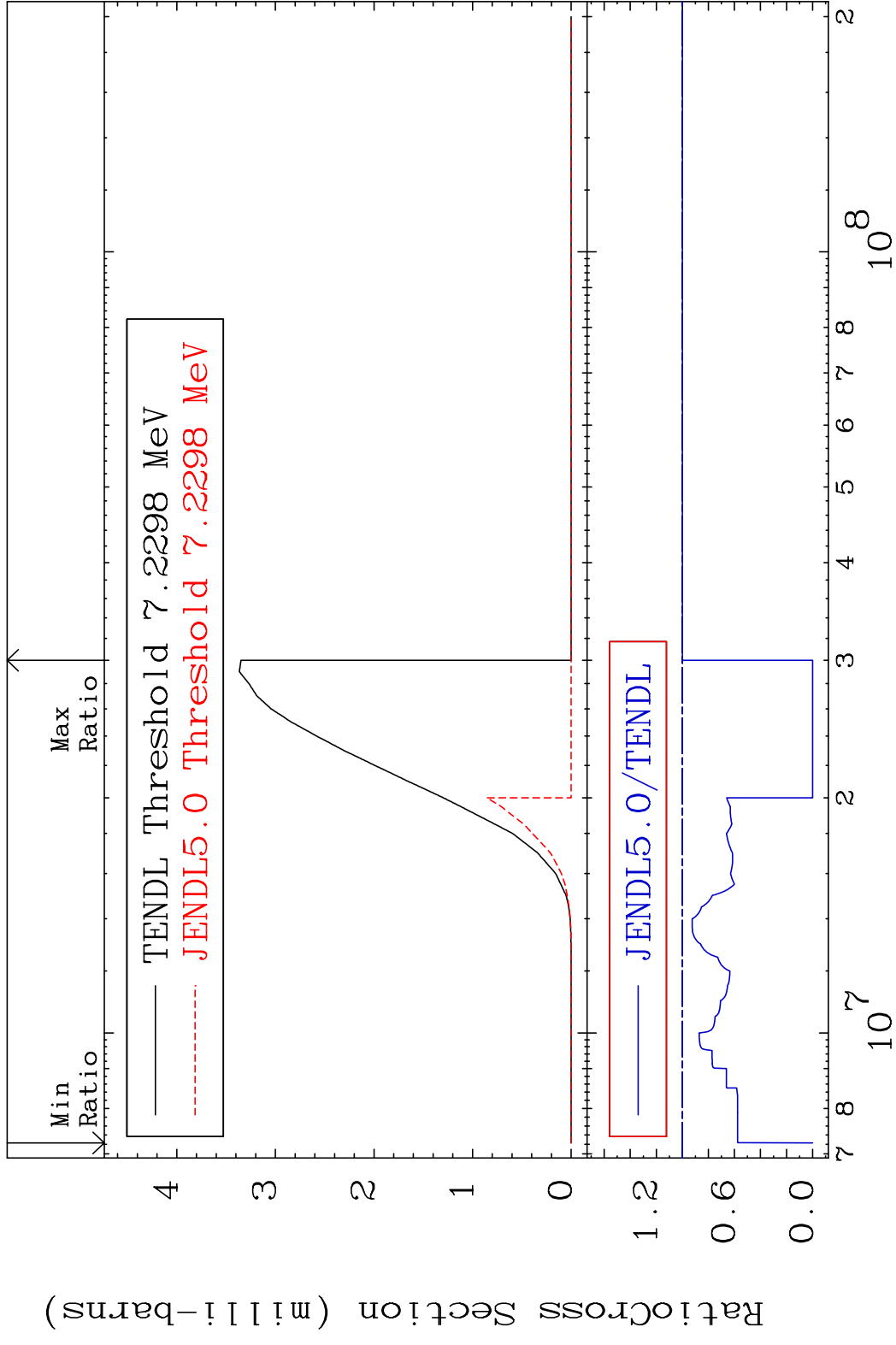


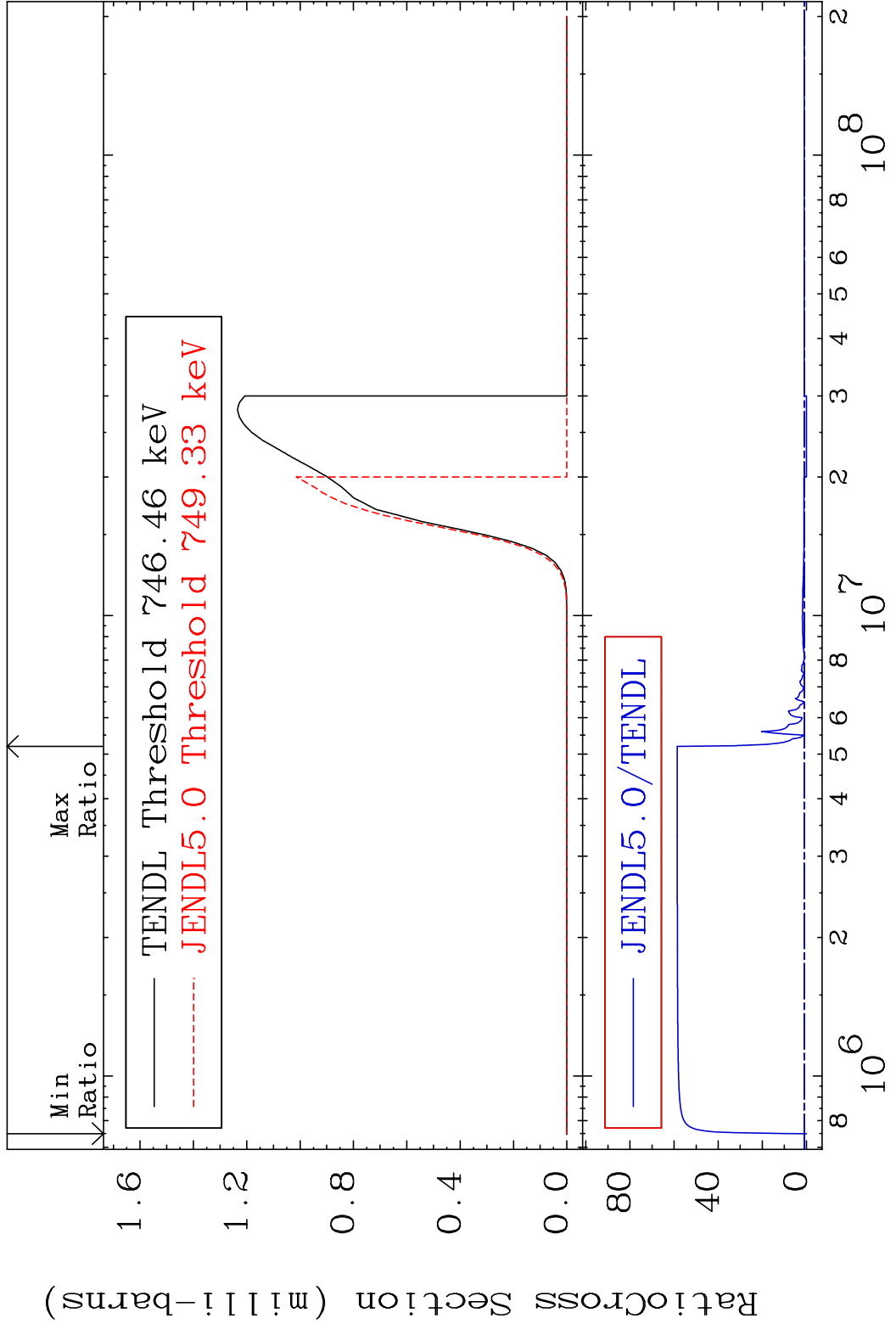
MAT 4228 (n, t): 41-Nb-91g 42-Mo-93  
 Radionuclide Production Cross Section 180.00 mb 34.00 %

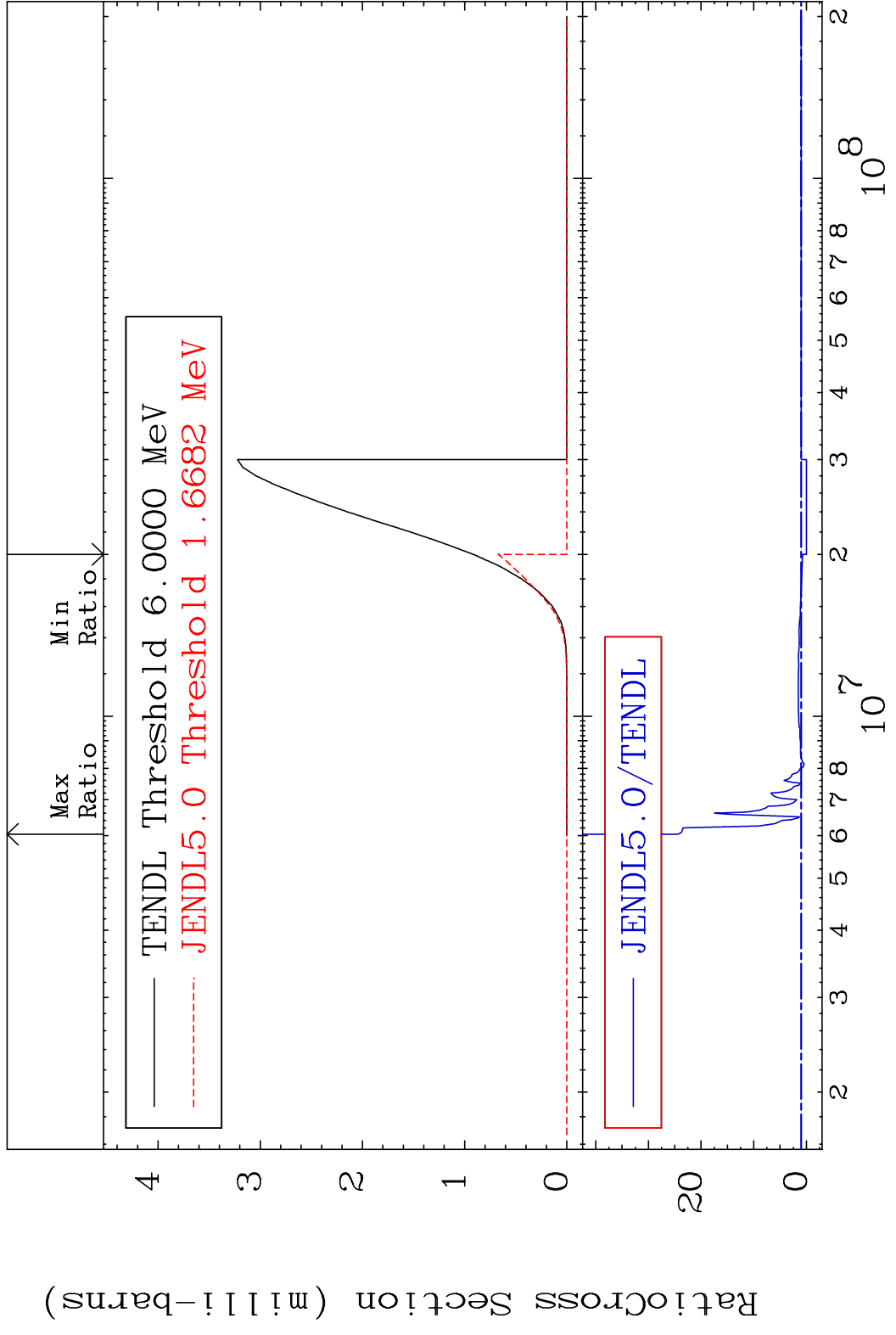


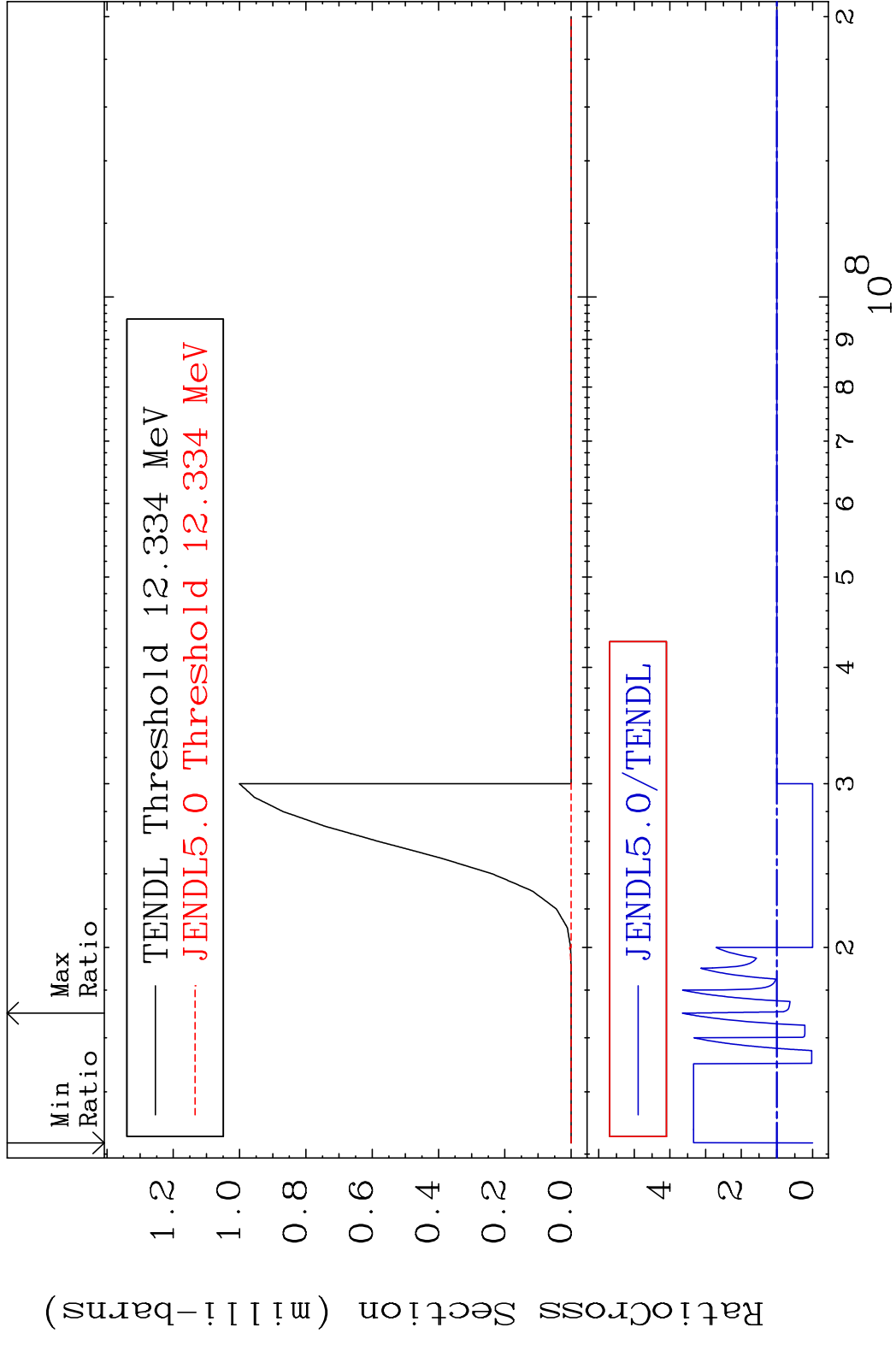
80 Incident Energy (eV) 42-Mo-93

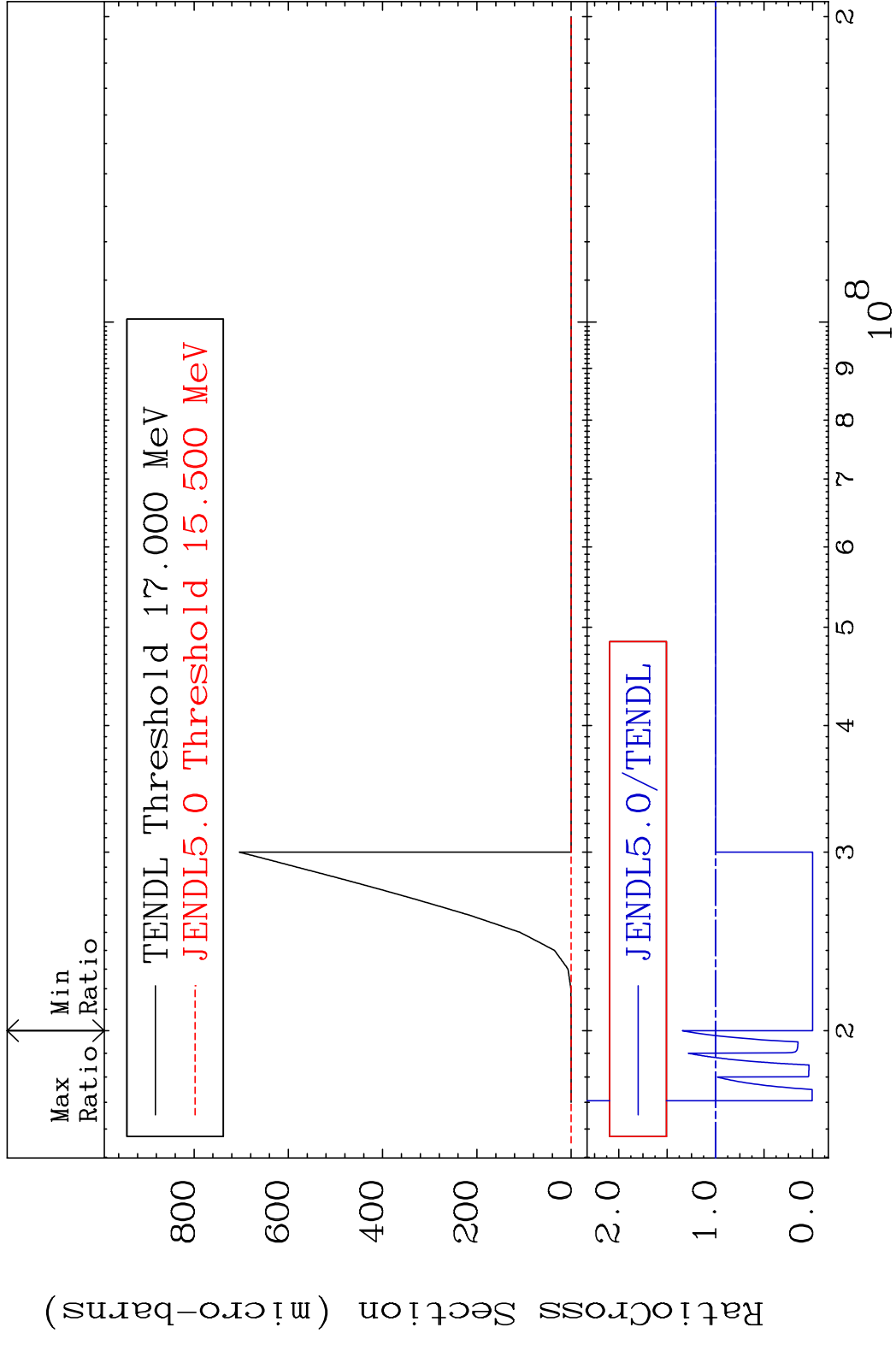
MAT 4228 (n, t): 41-Nb-91m1 42-Mo-93  
 Radionuclide Production Cross Section Ratio 0.000 %

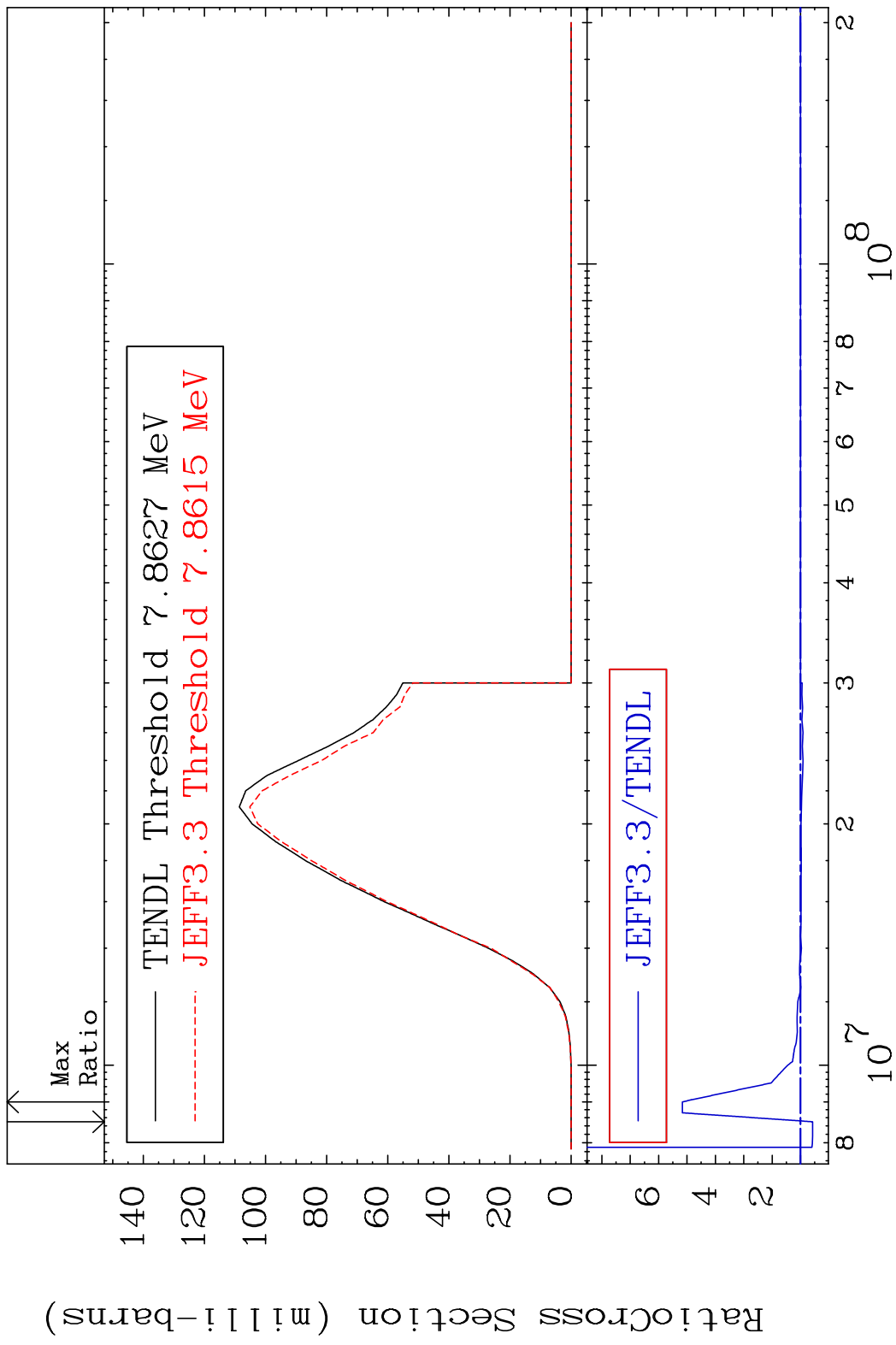


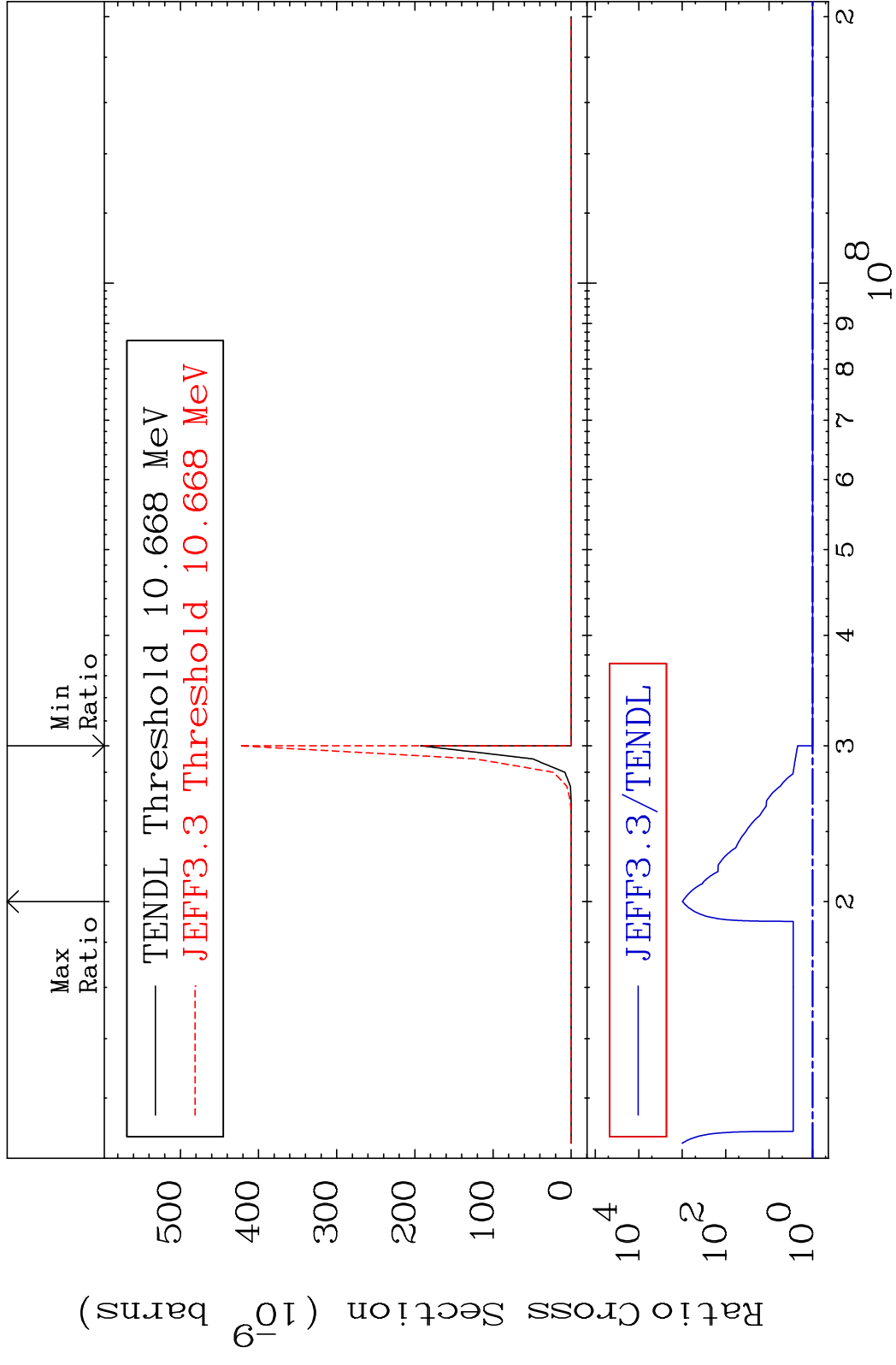




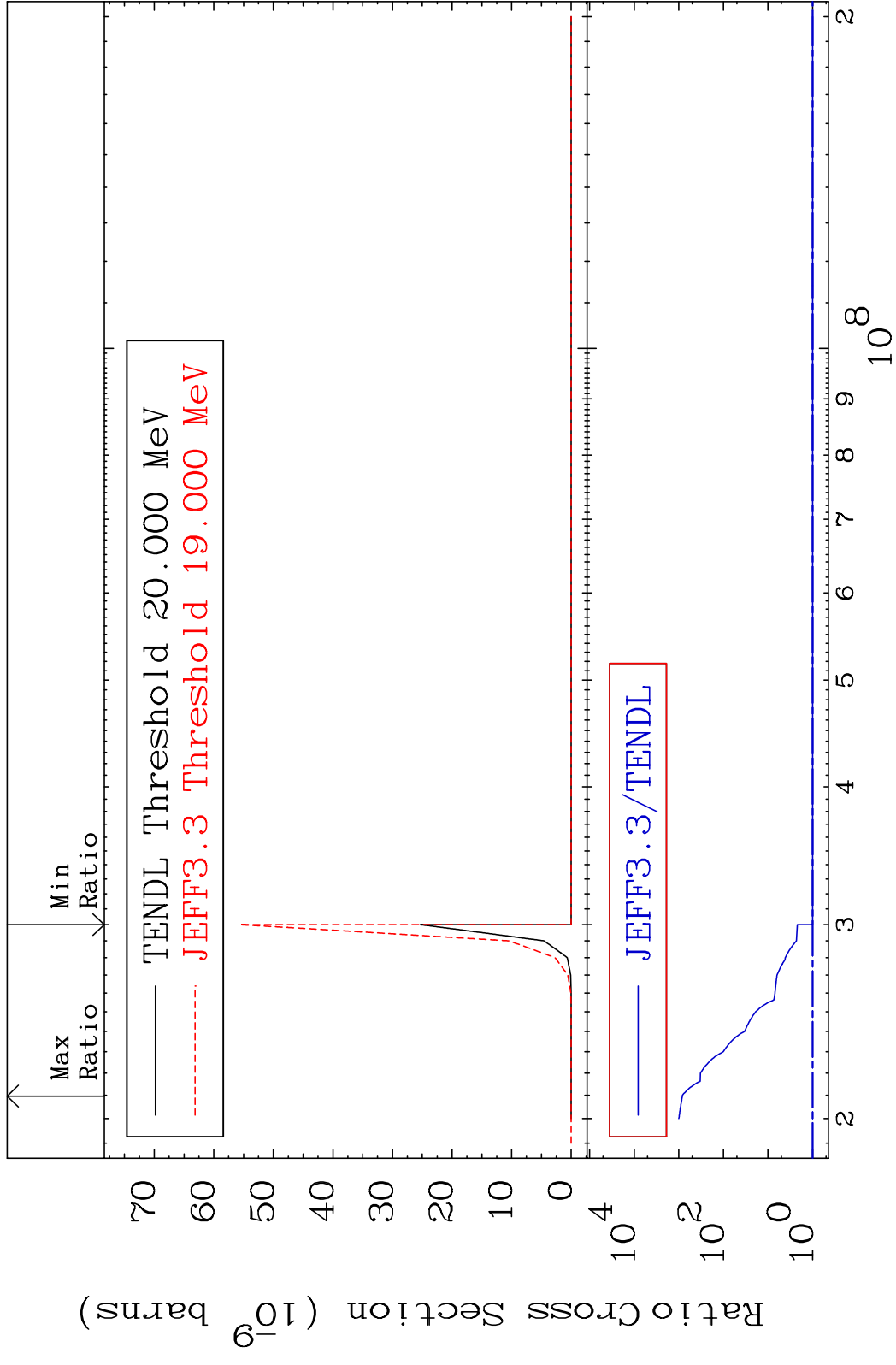


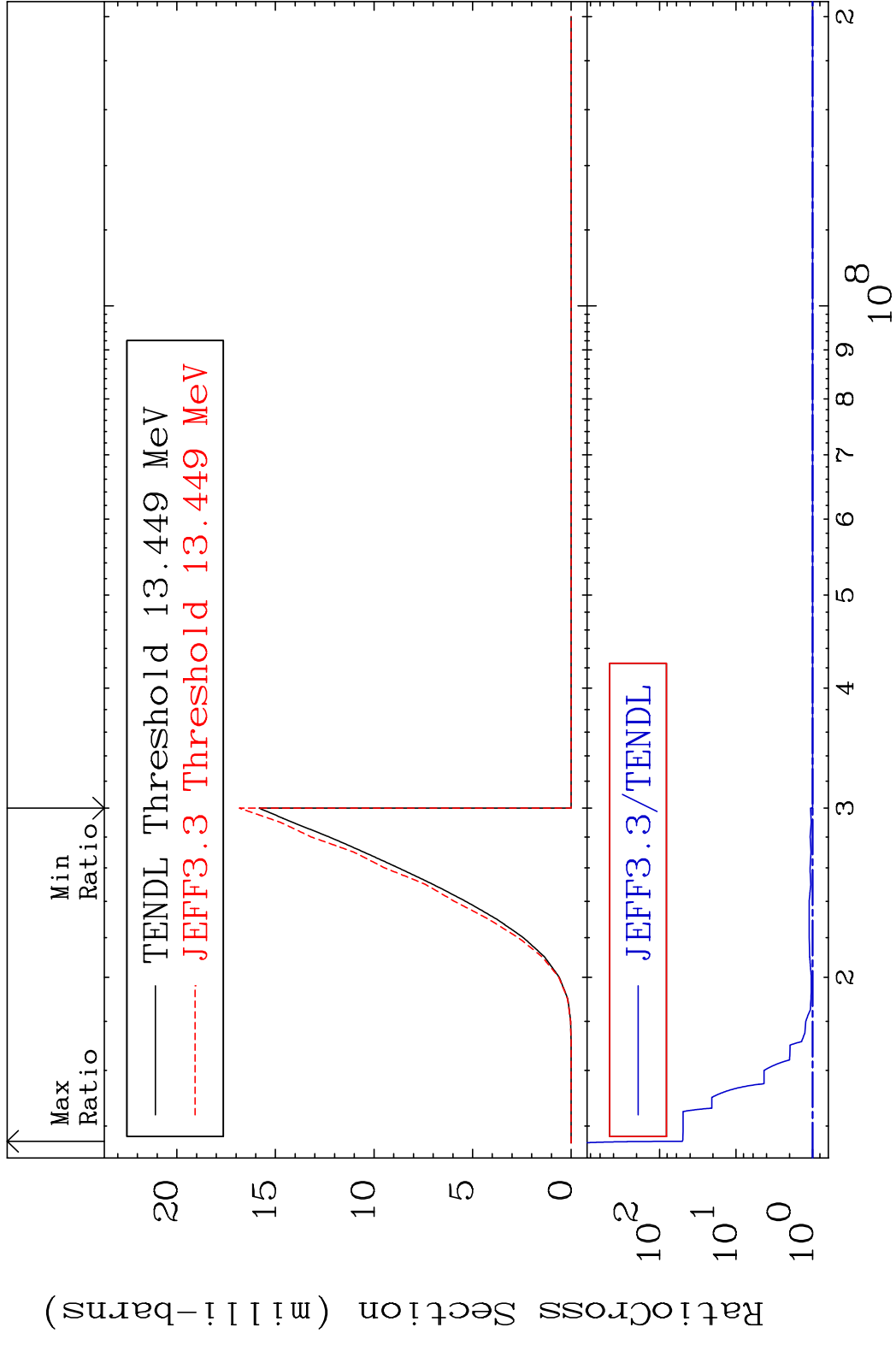


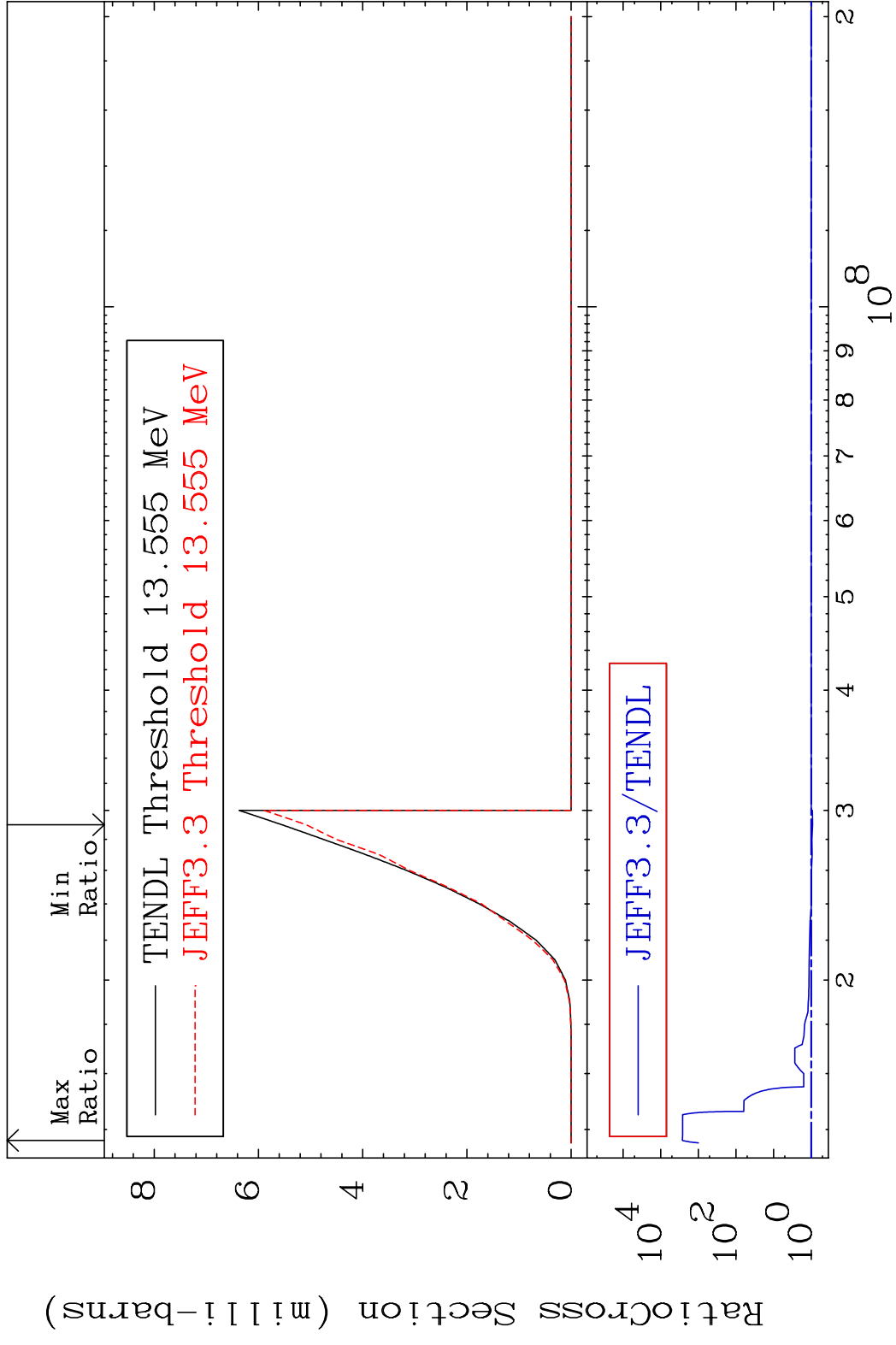


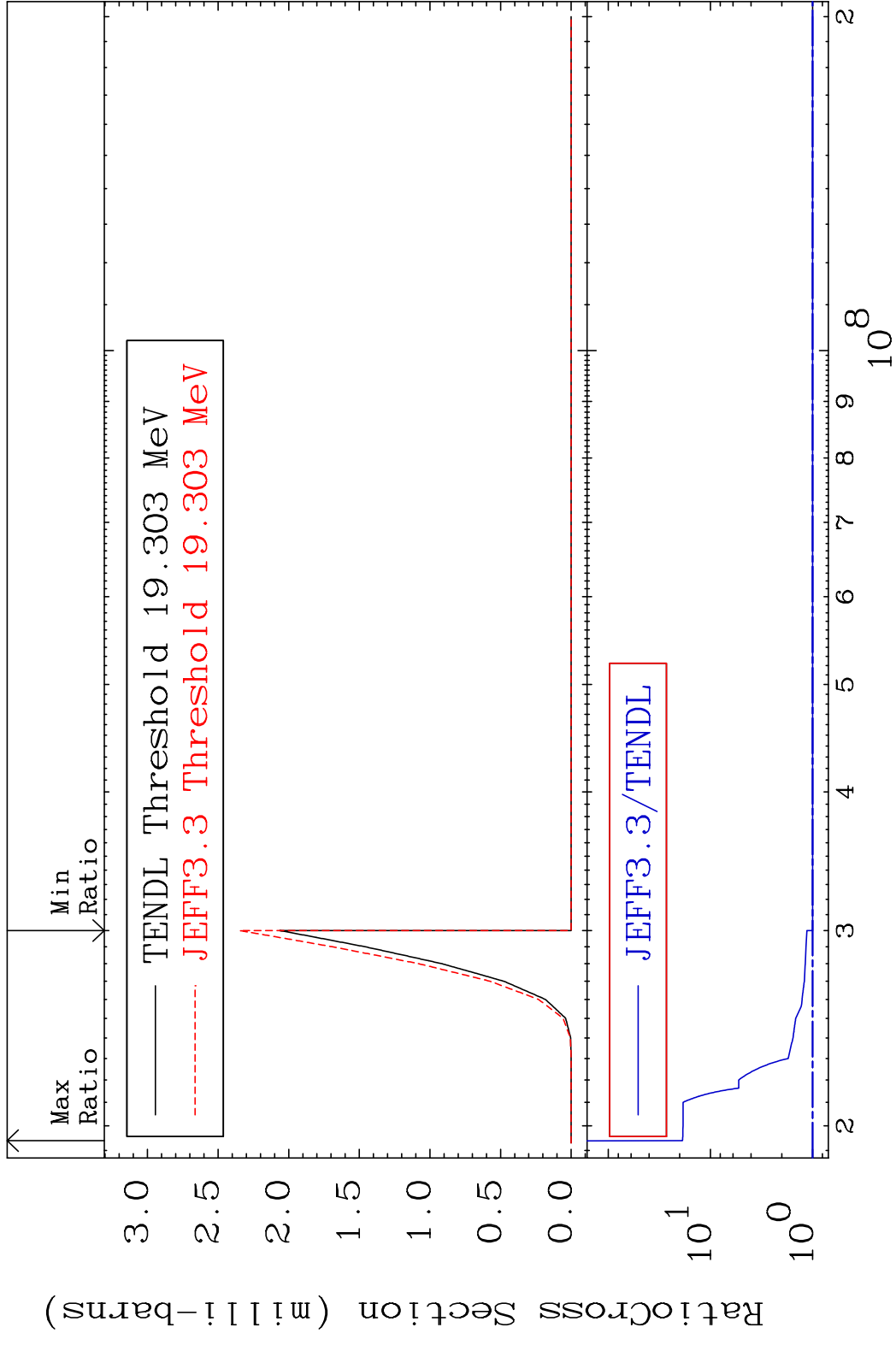


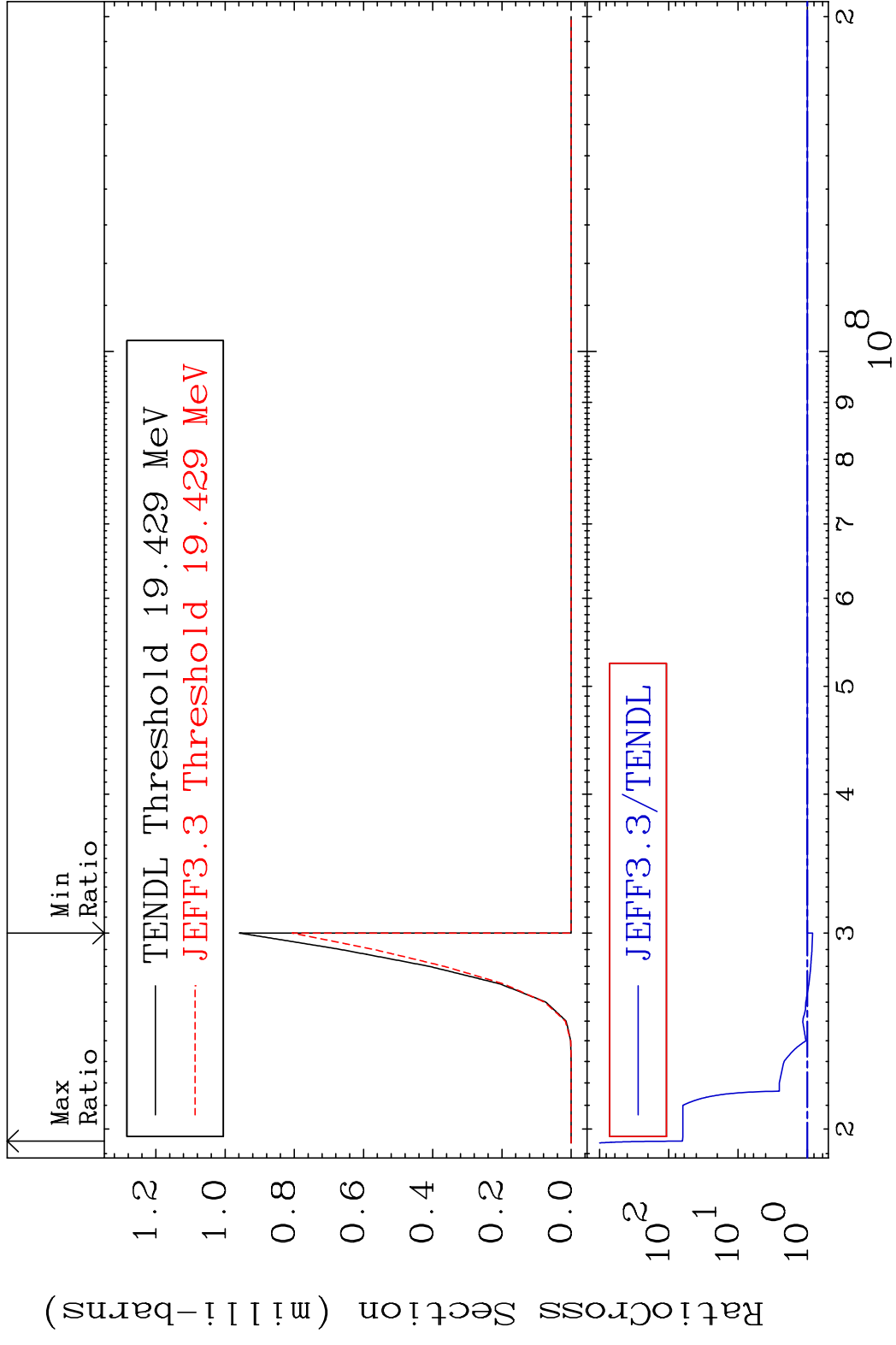


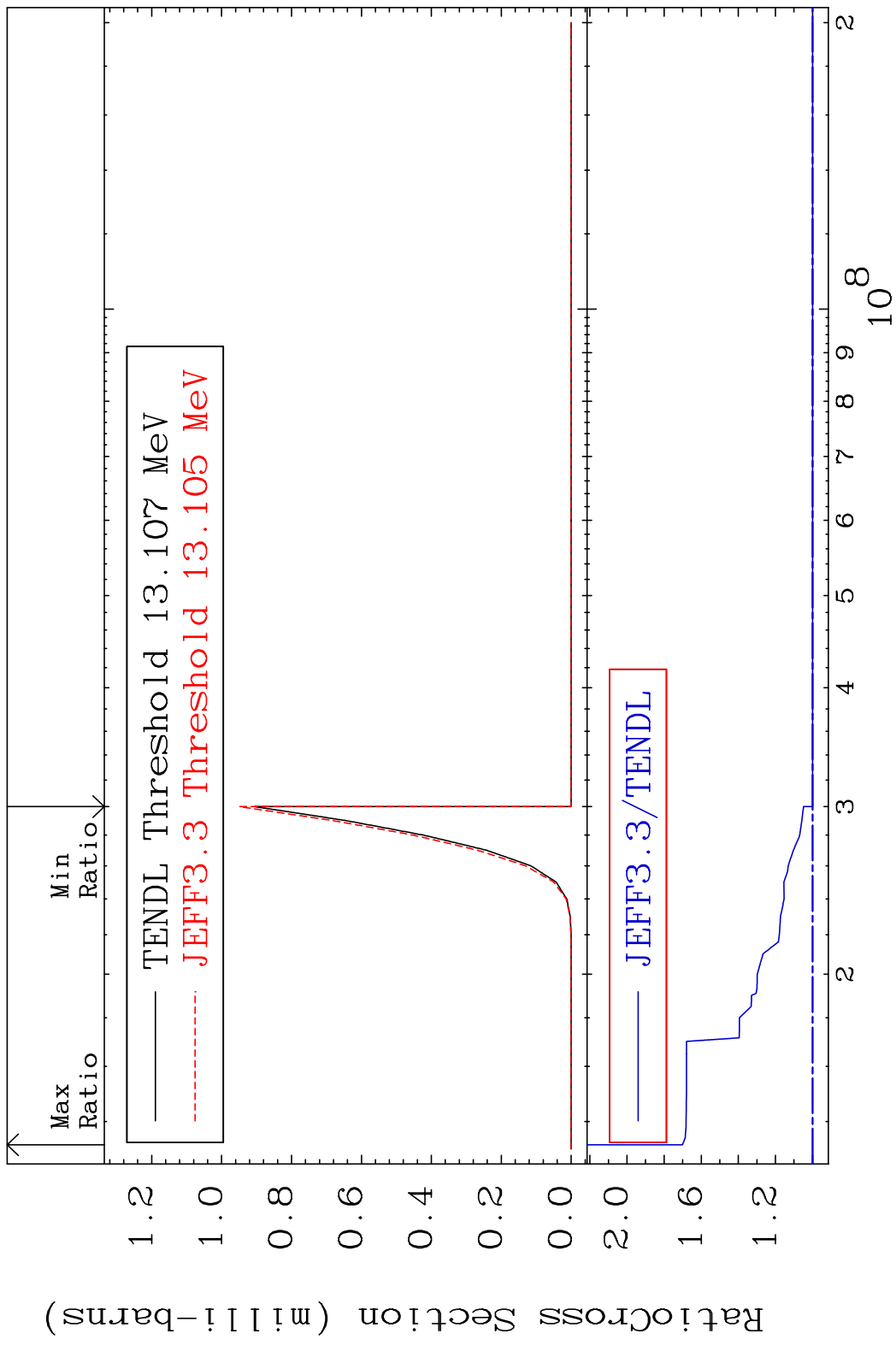


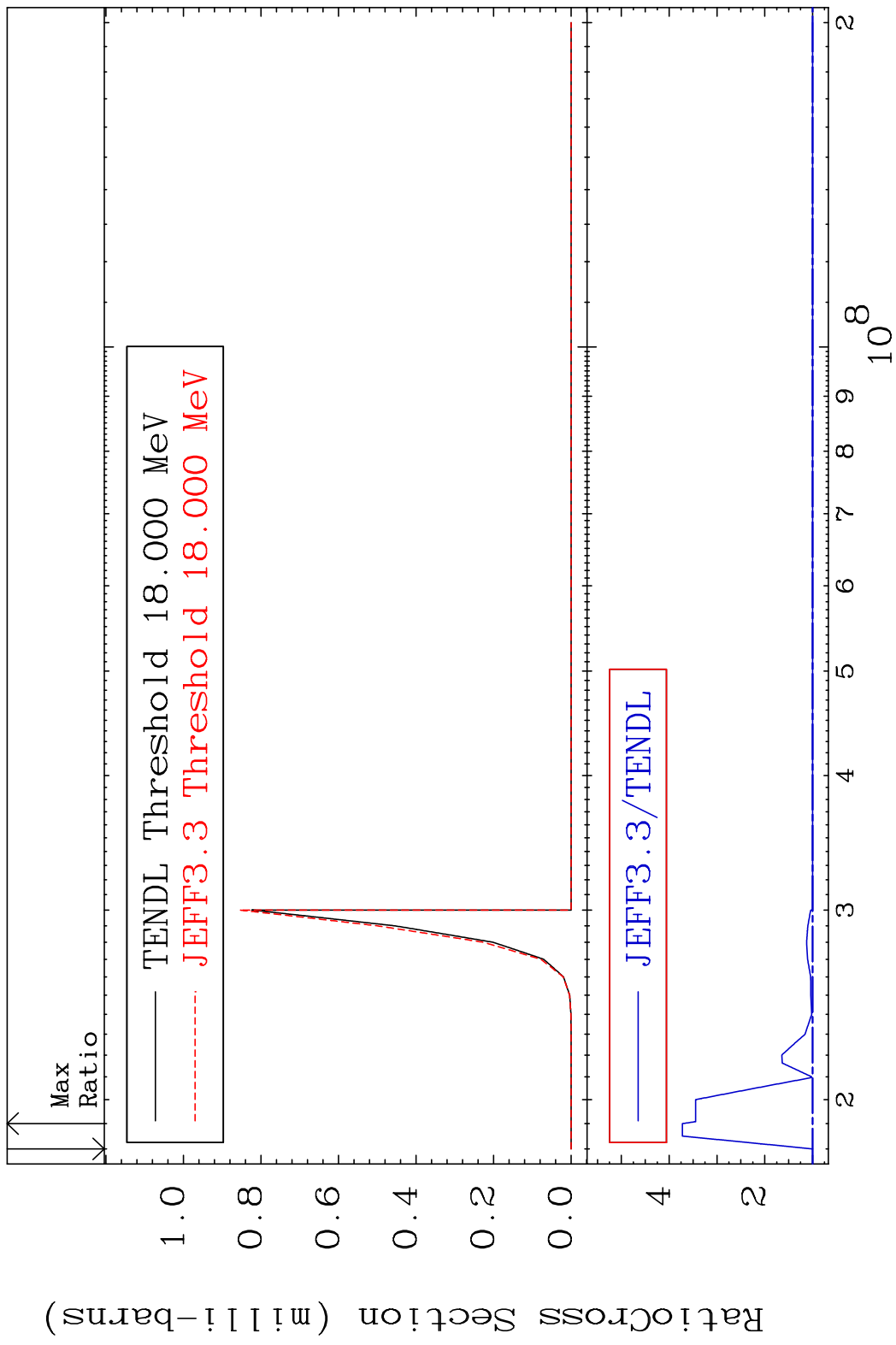


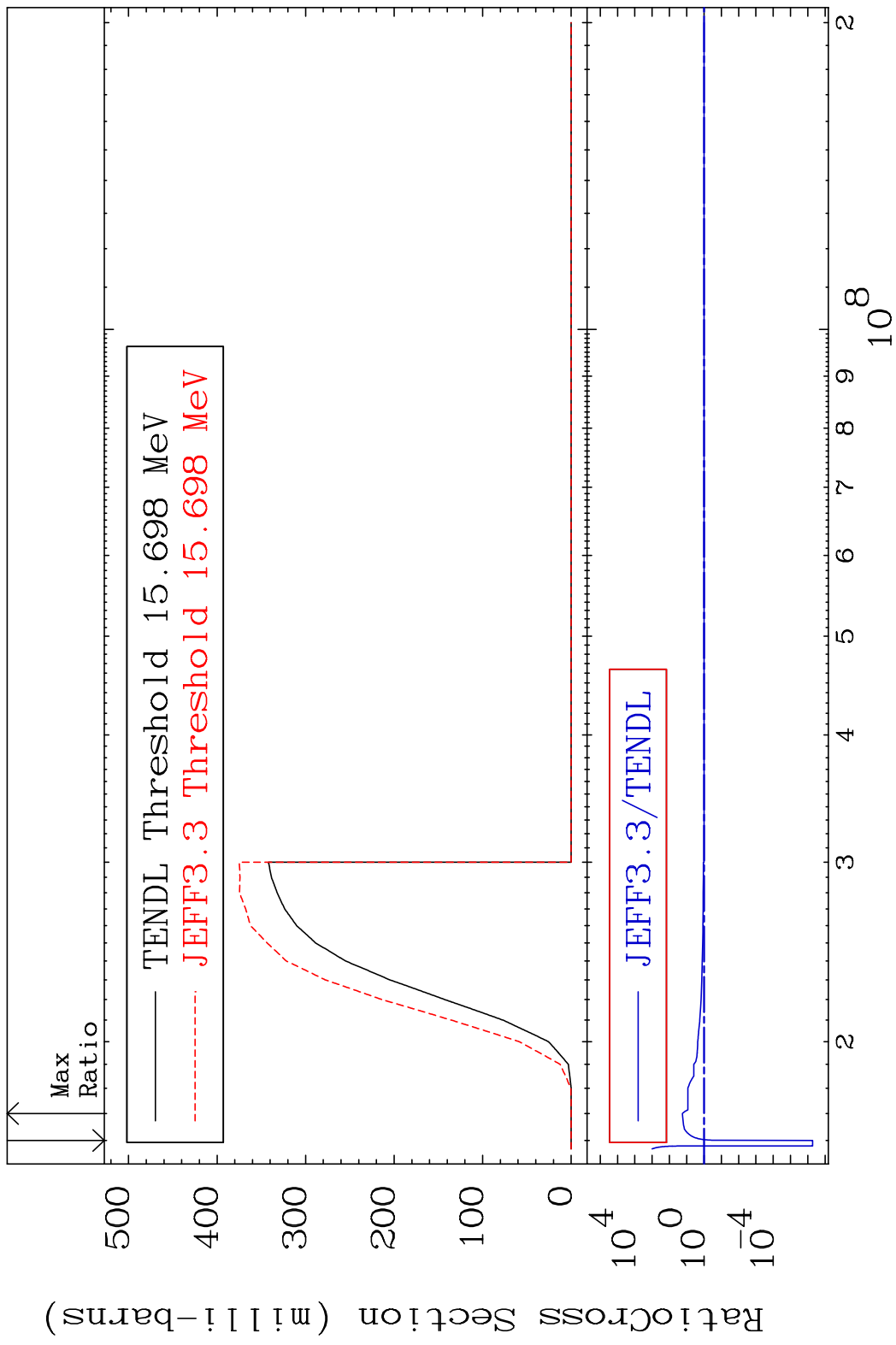




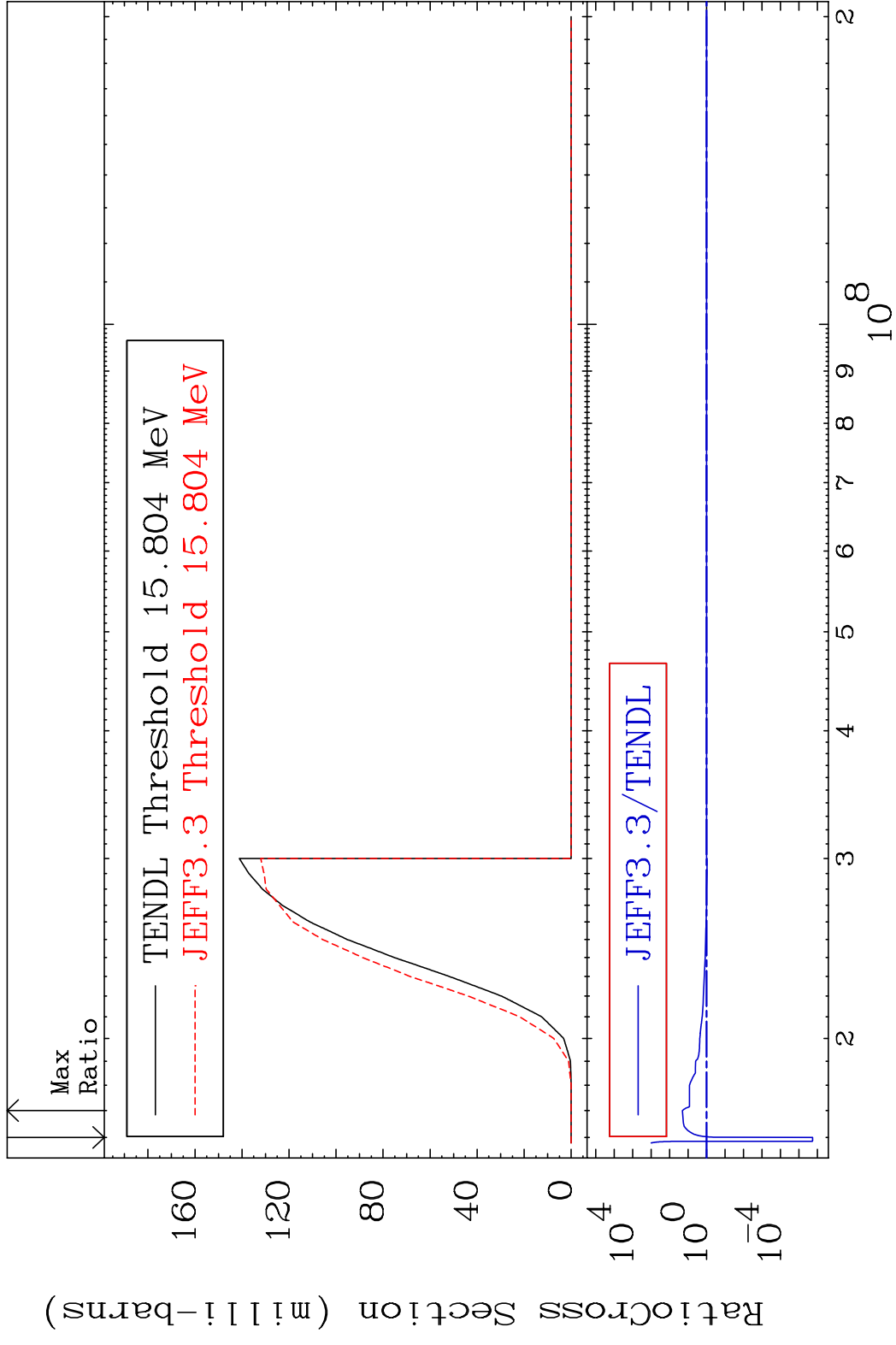


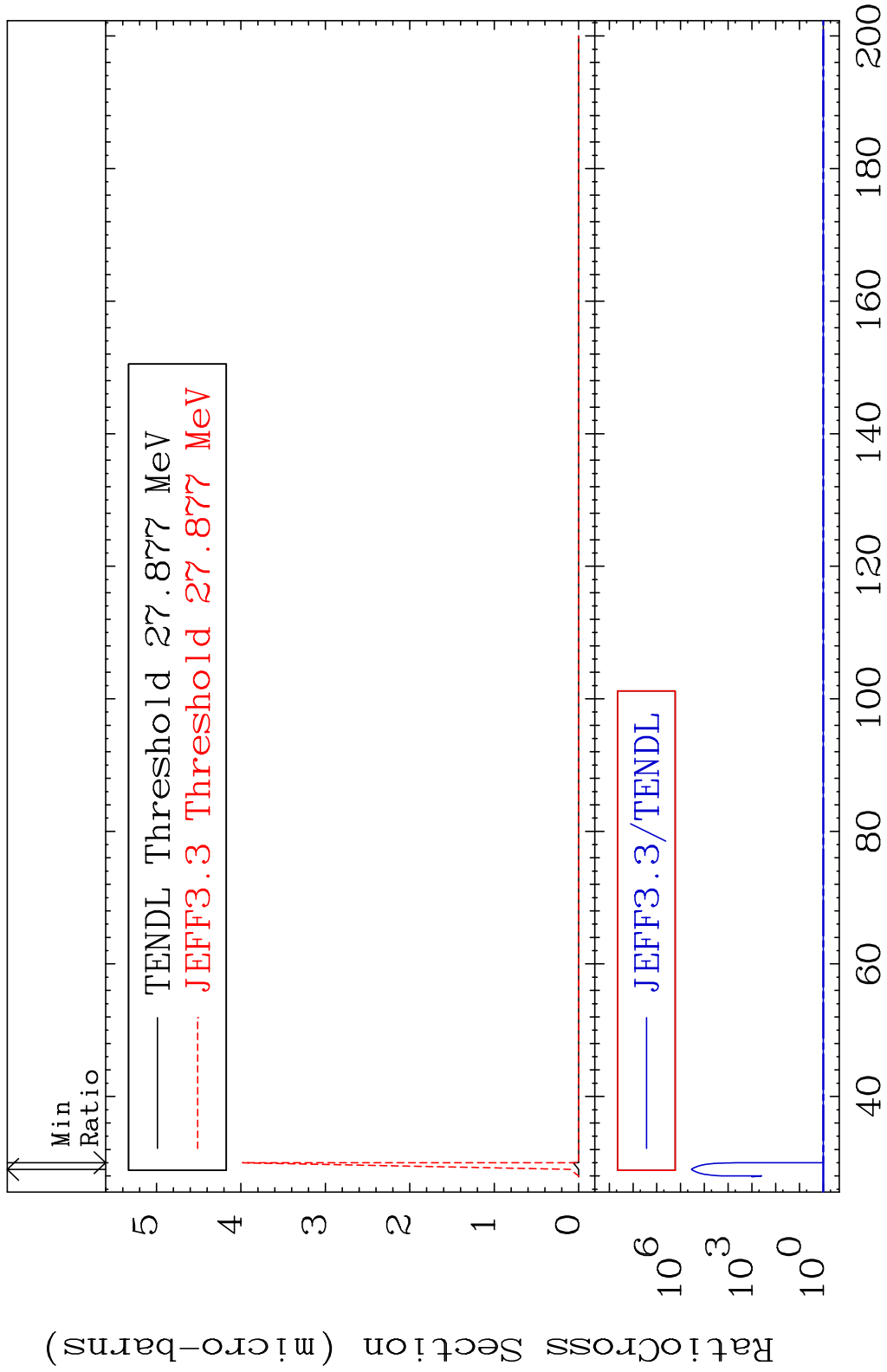


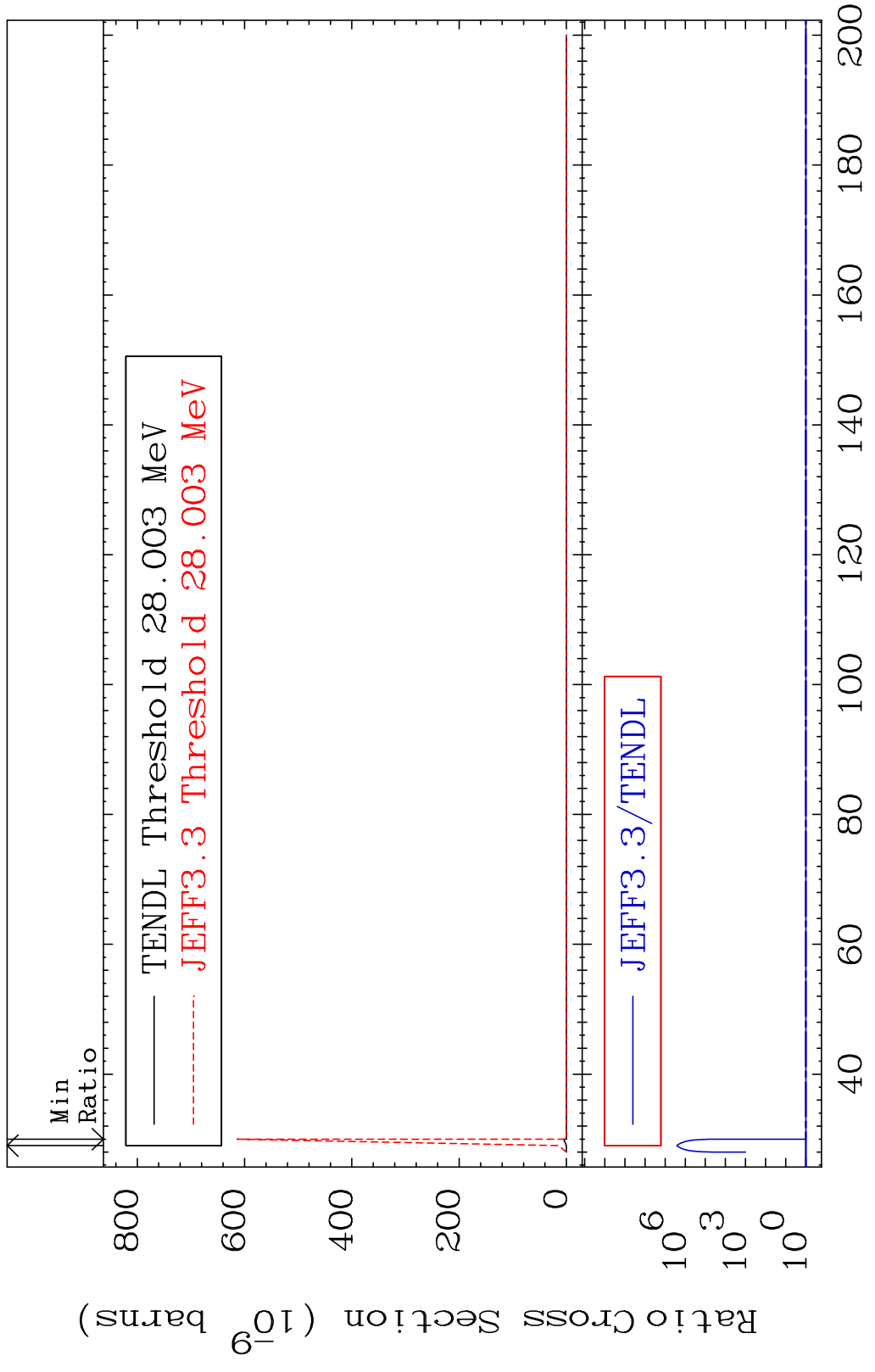


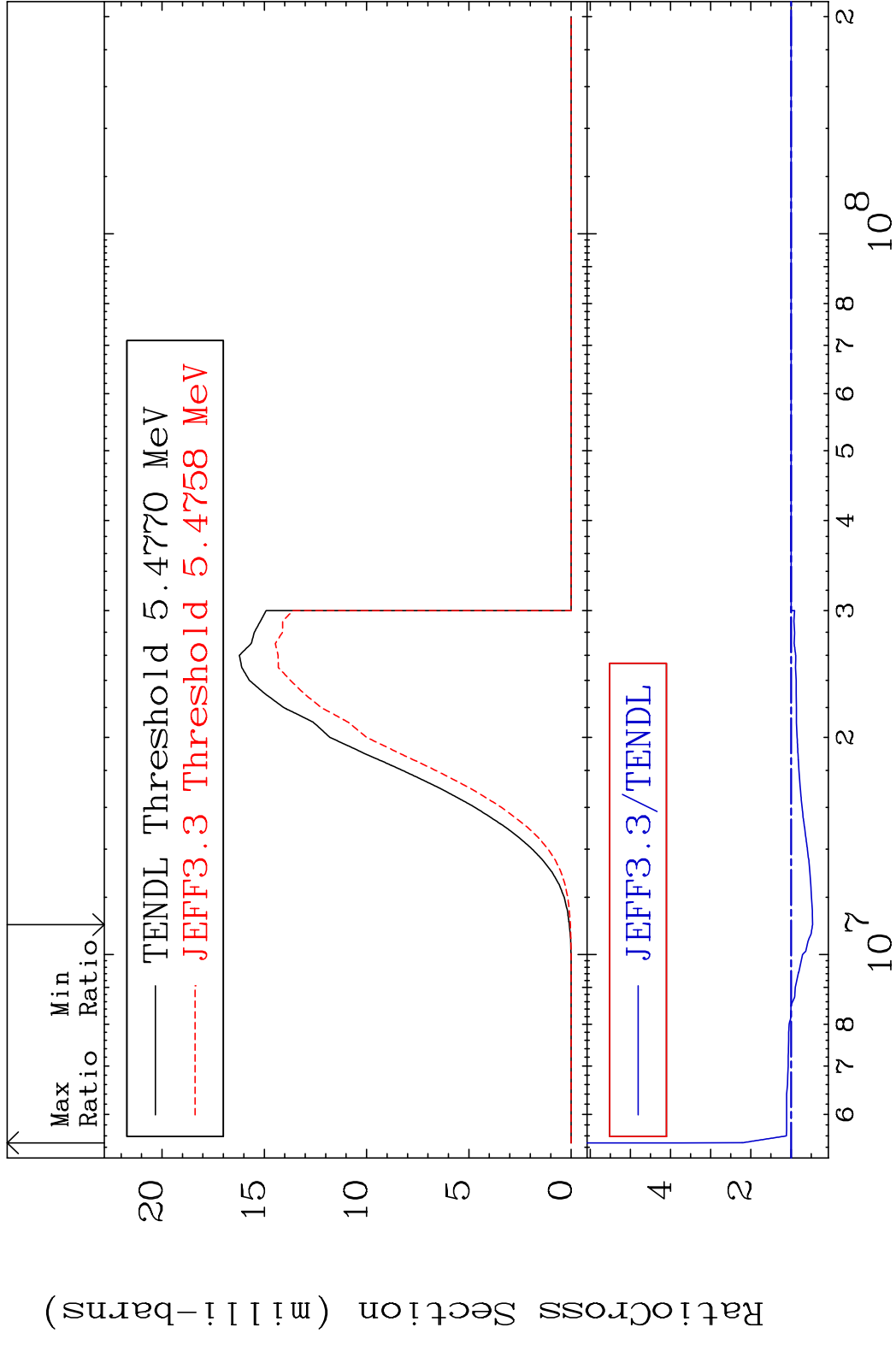




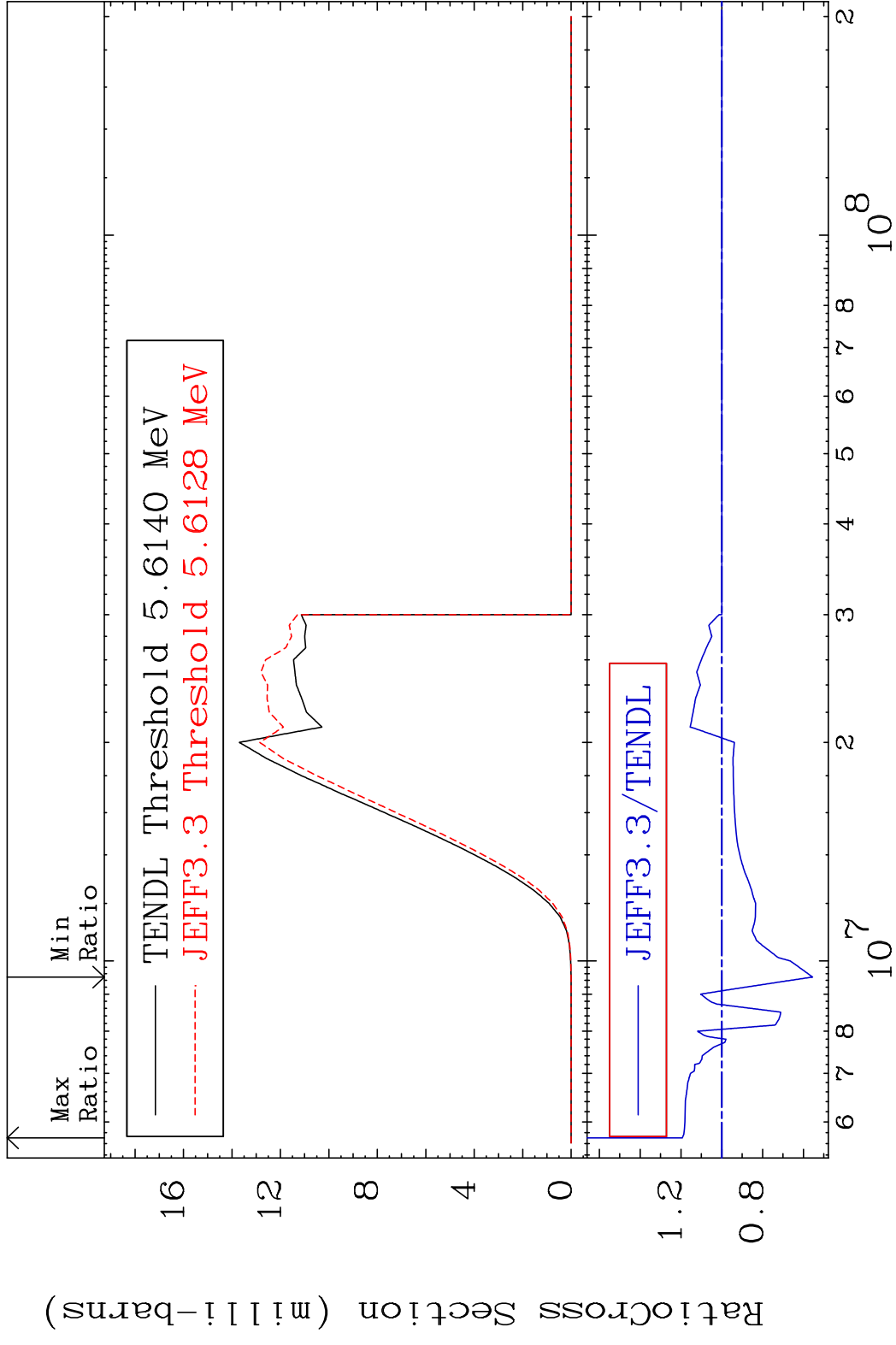




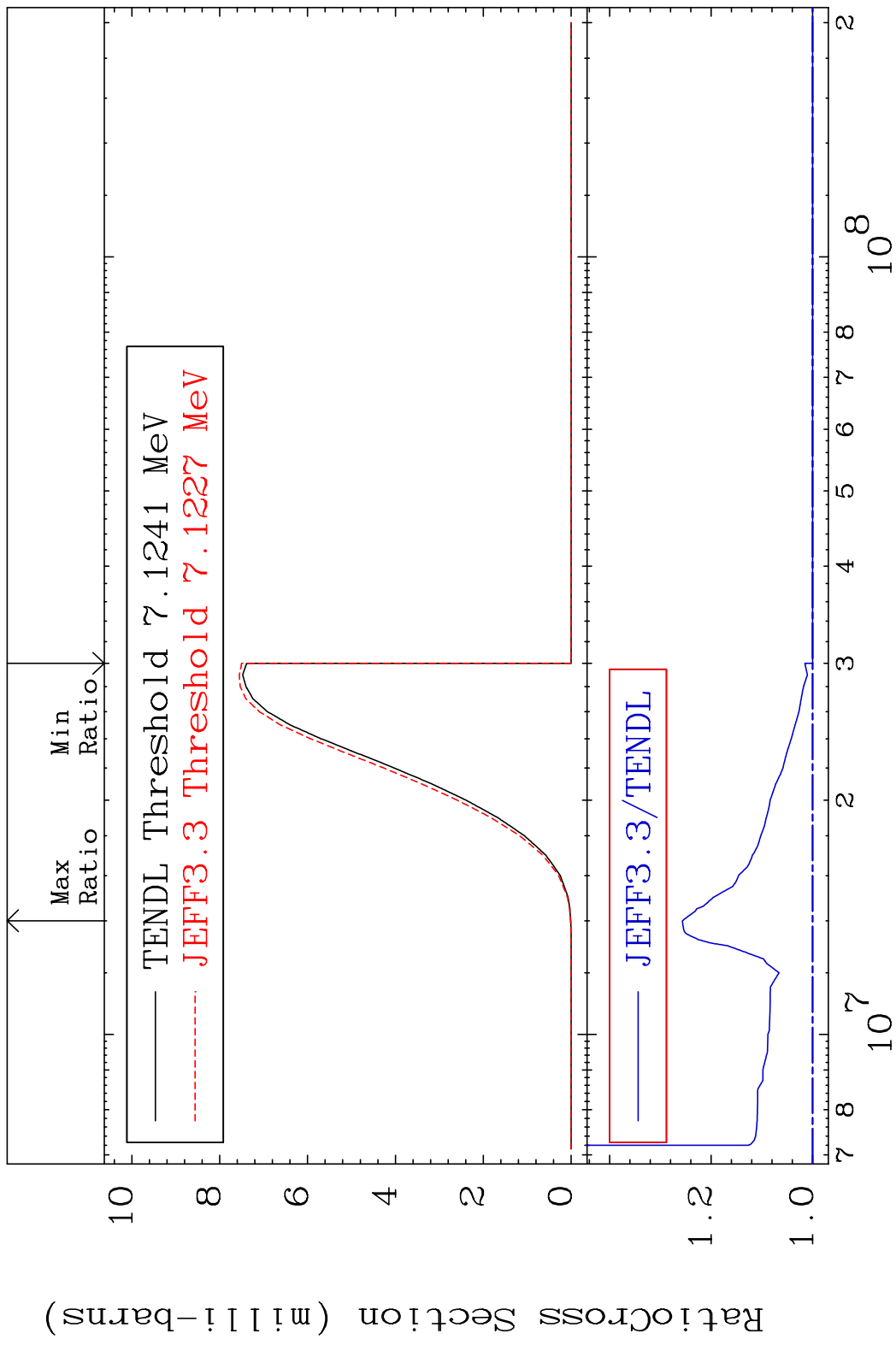




MAT 4228 (n, d) : 41-Nb-92m1 42-Mo-93  
 Radionuclide Production Cross Section 19.33 %



100 42-Mo-93



MAT 4228 (n, t): 41-Nb-91m1 42-Mo-93  
 Radionuclide Production Cross Section 18.62 mb 12.84 %

