

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

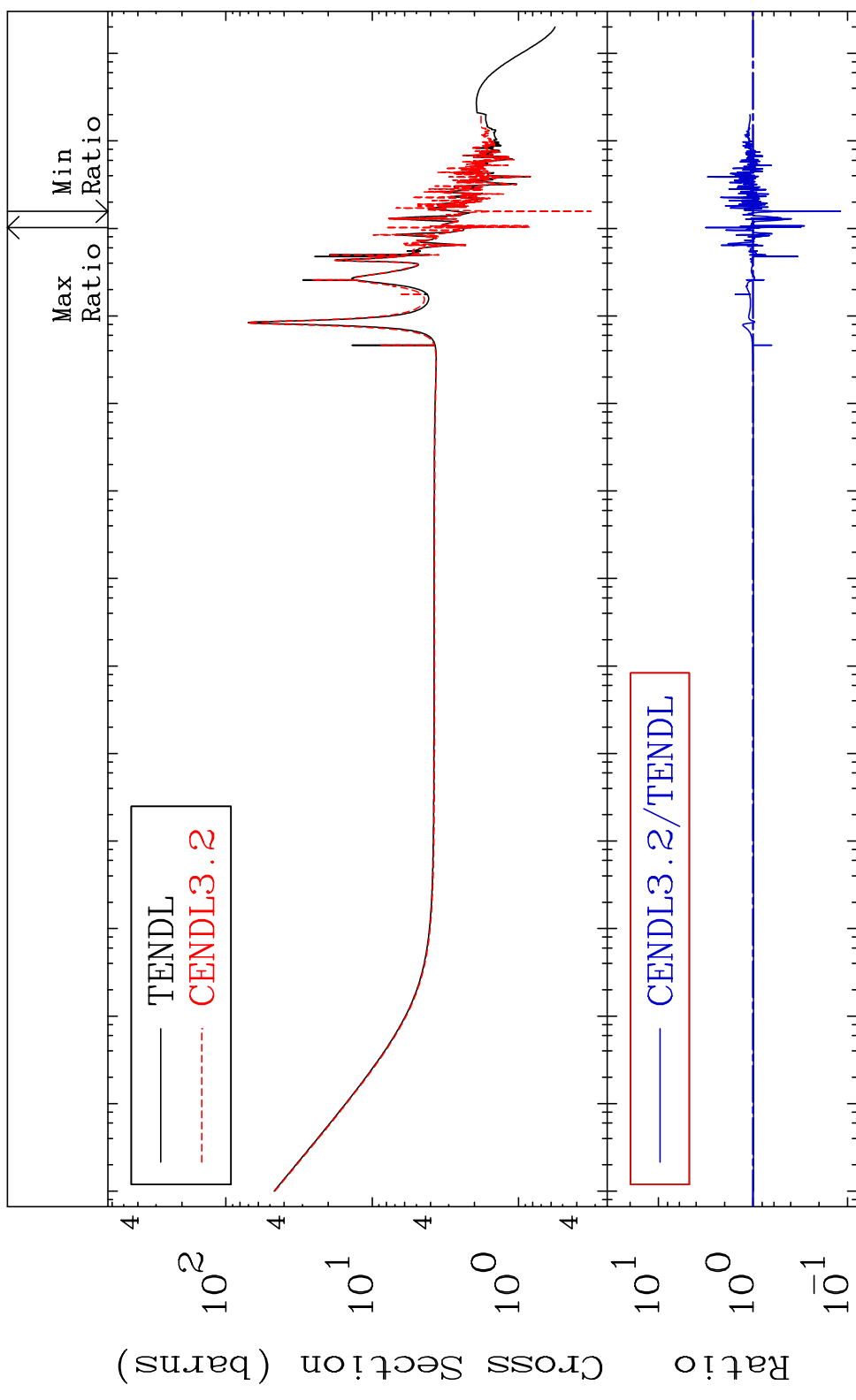
MAT 1225

Total

12-Mg-24

Cross Section

-88.10 To 216.1 %



1

Incident Energy (eV)

12-Mg-24

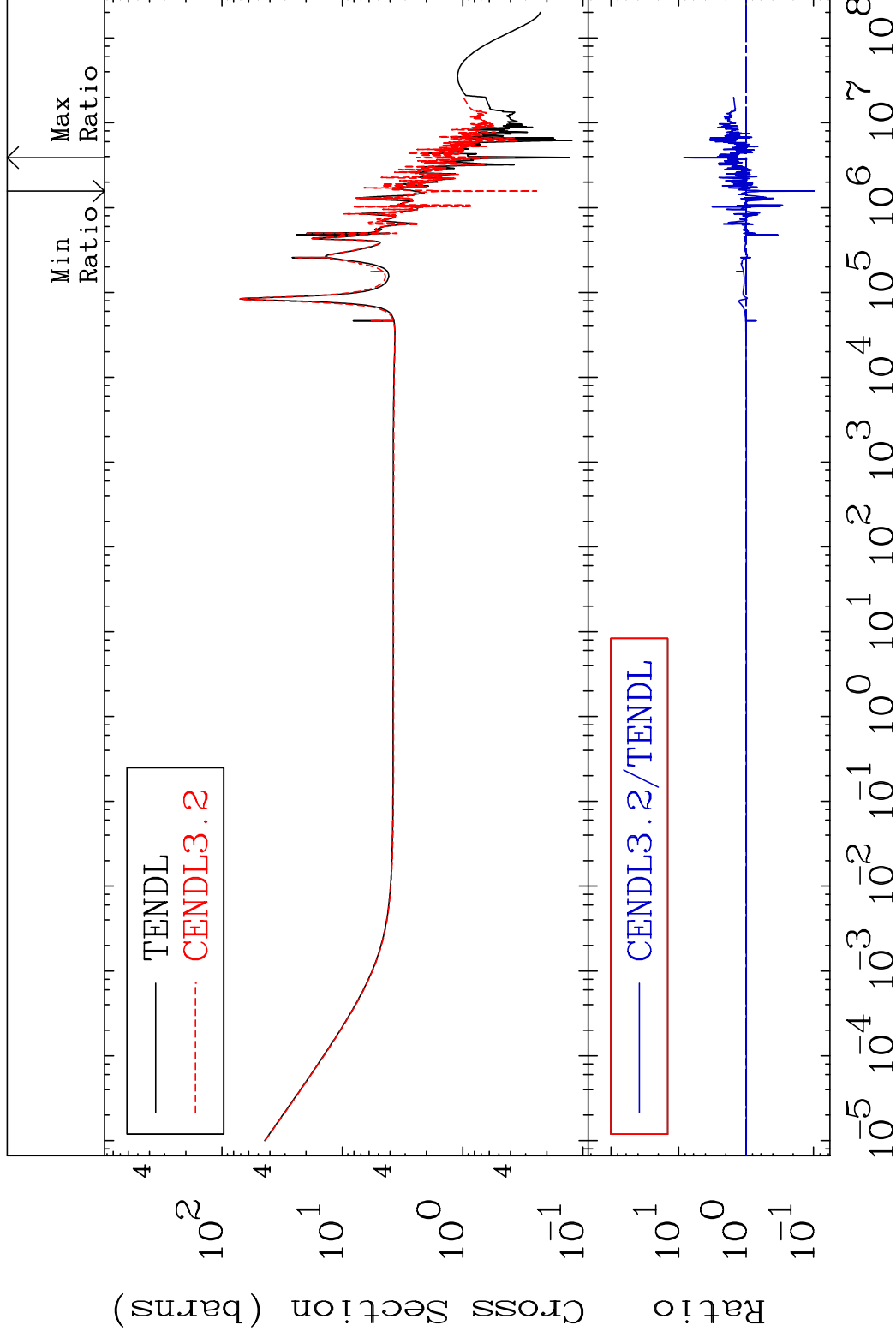
MAT 1225

Elastic

12-Mg-24

Cross Section

-90.21 To 741.0 %



2

Incident Energy (eV)

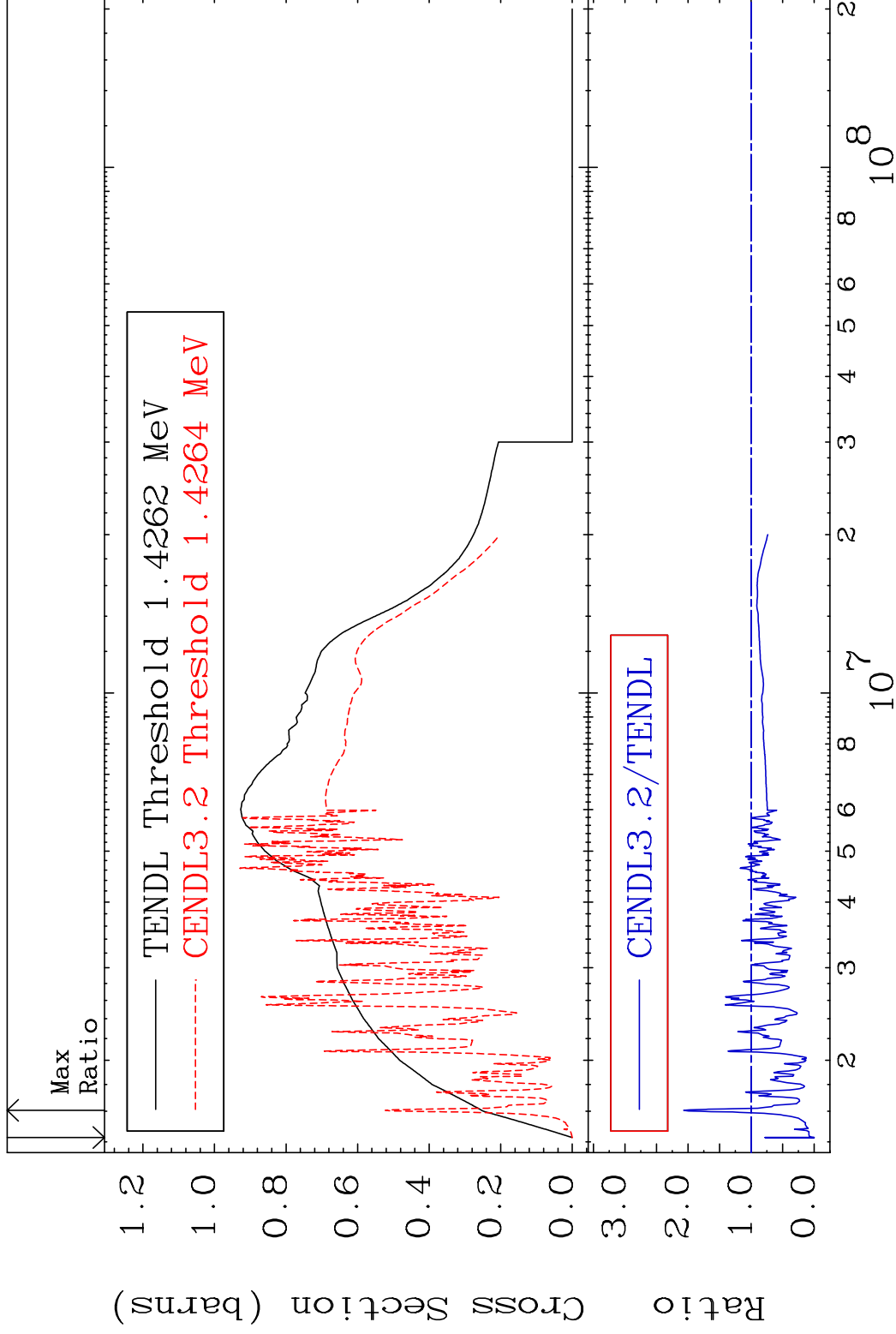
12-Mg-24

MAT 1225

Inelastic

¹²Mg-24

Cross Section -100.0 To 106.9 %

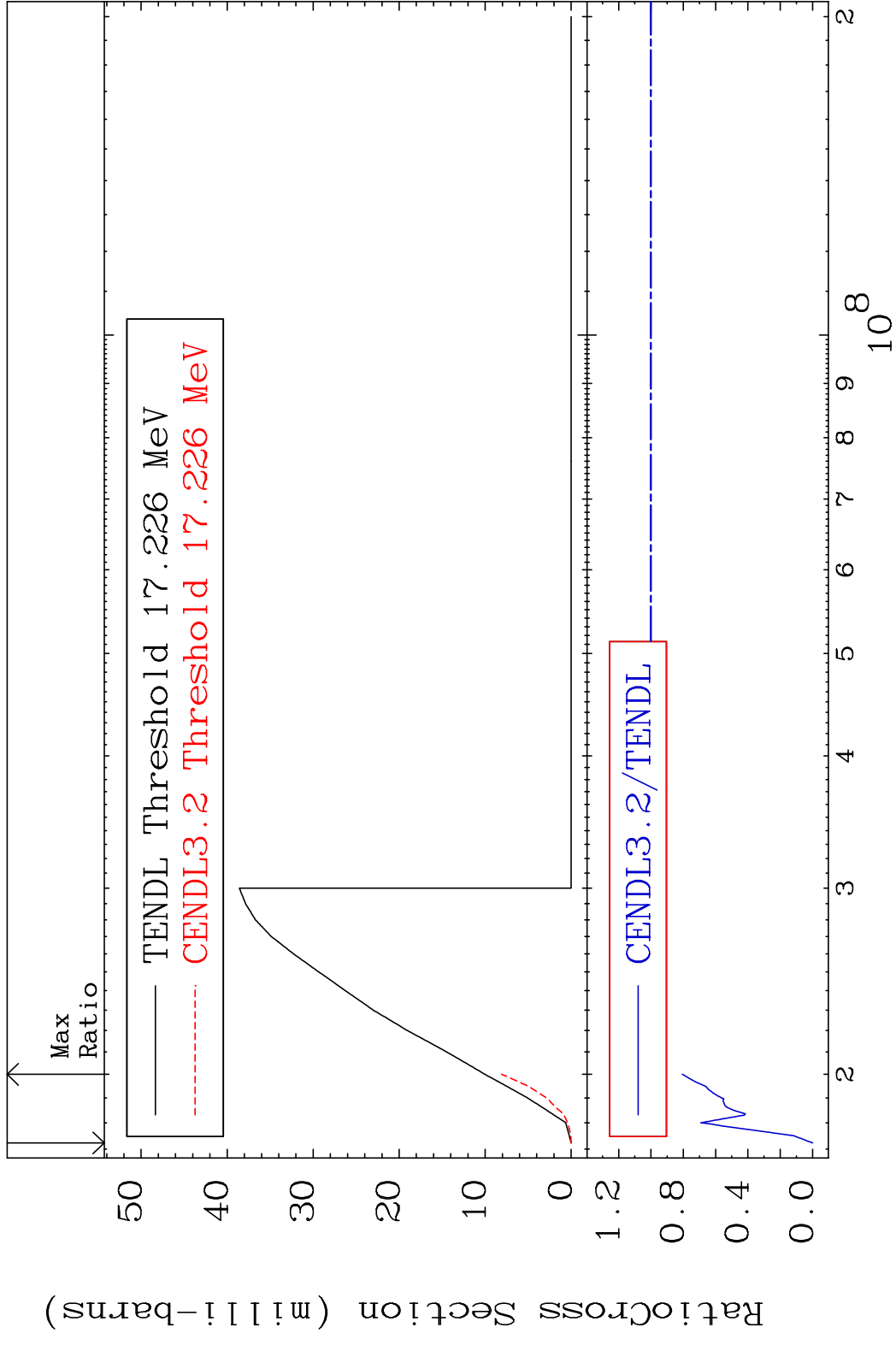


3

Incident Energy (eV)

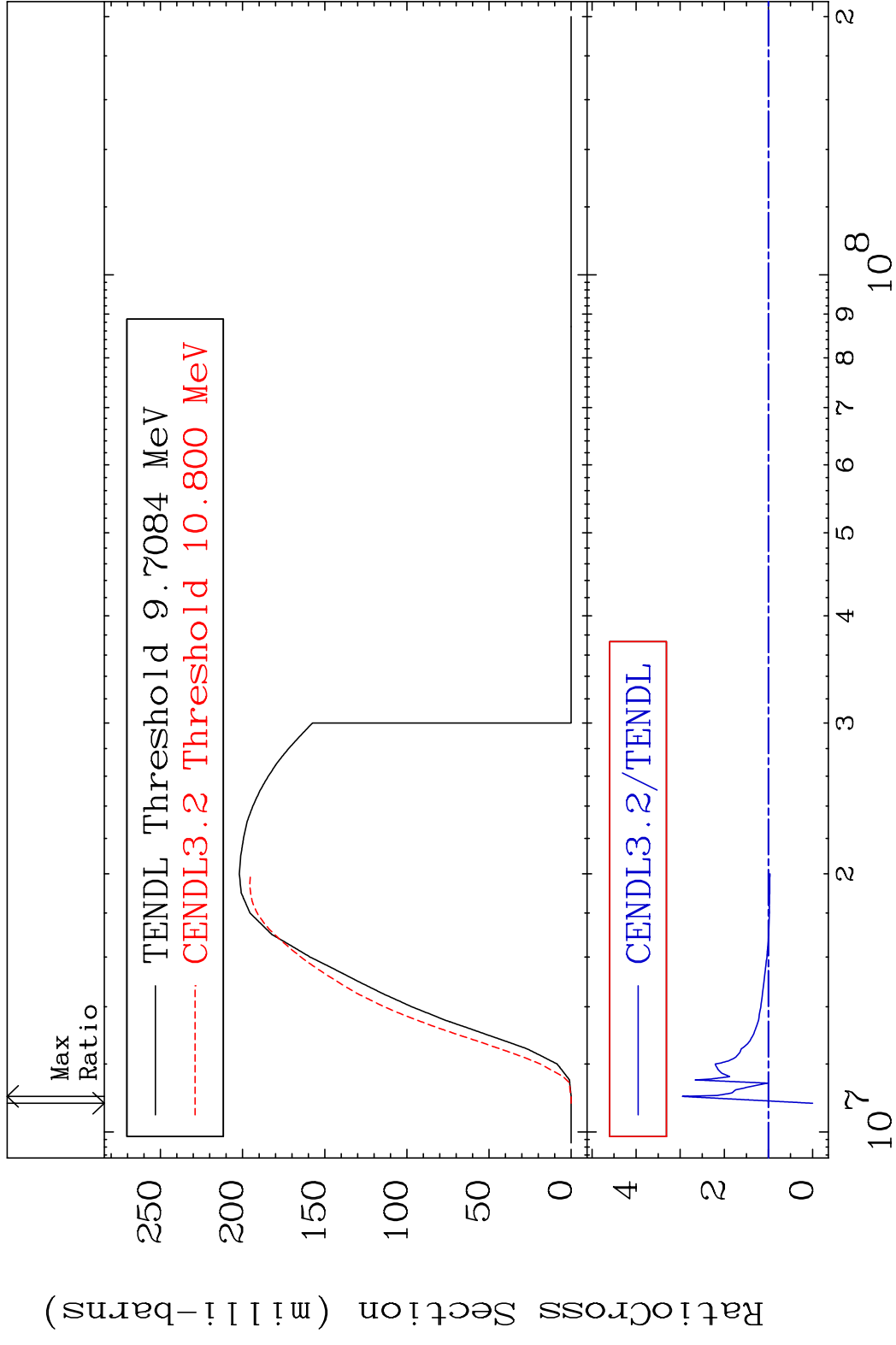
¹²Mg-24

MAT 1225 (n,2n) 12-Mg-24
 Cross Section -100.0 To -19.42%



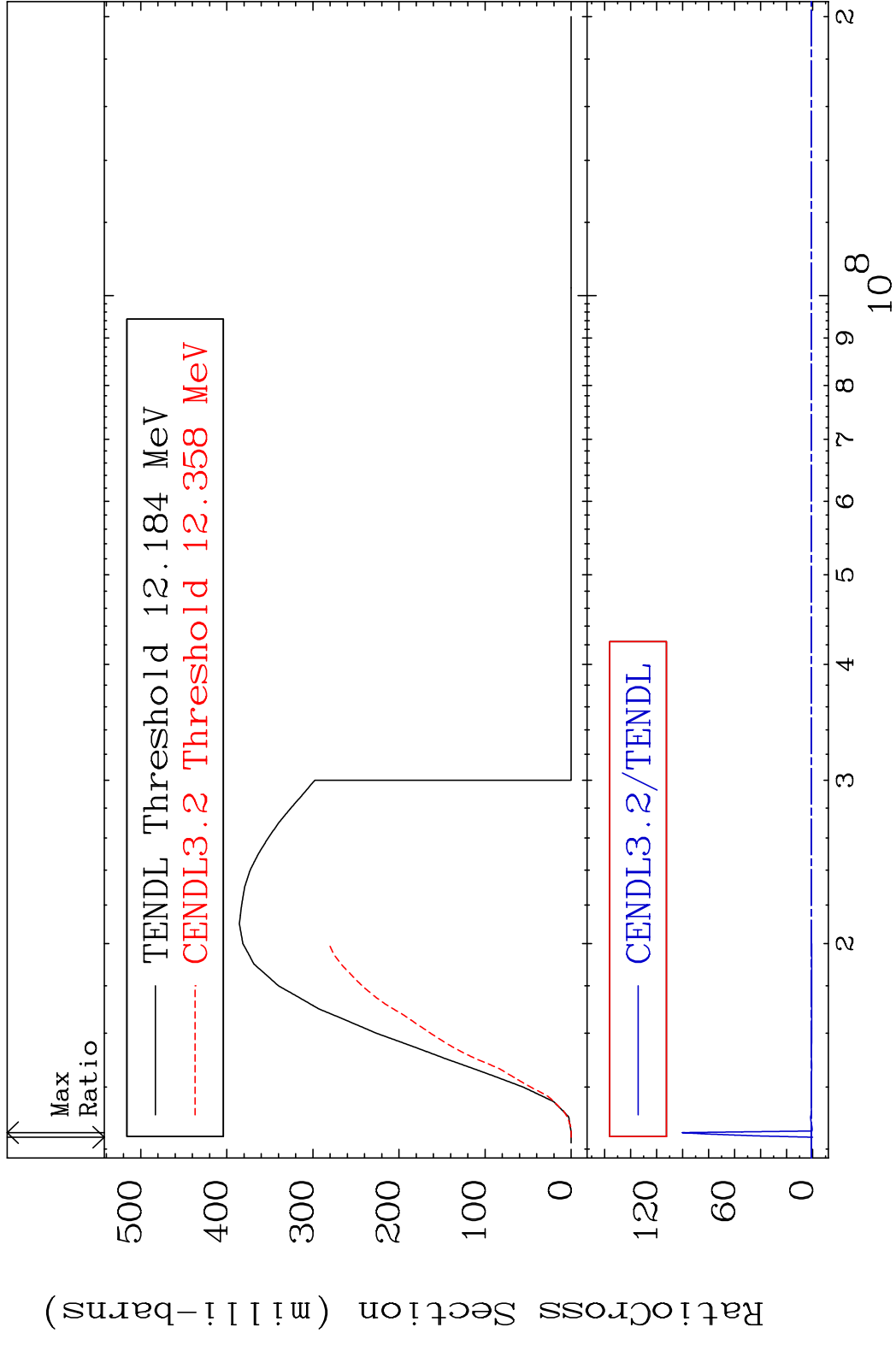
4 Incident Energy (eV) 12-Mg-24

MAT 1225 (n, n') α 12-Mg-24
 Cross Section -100.0 To 195.2 %



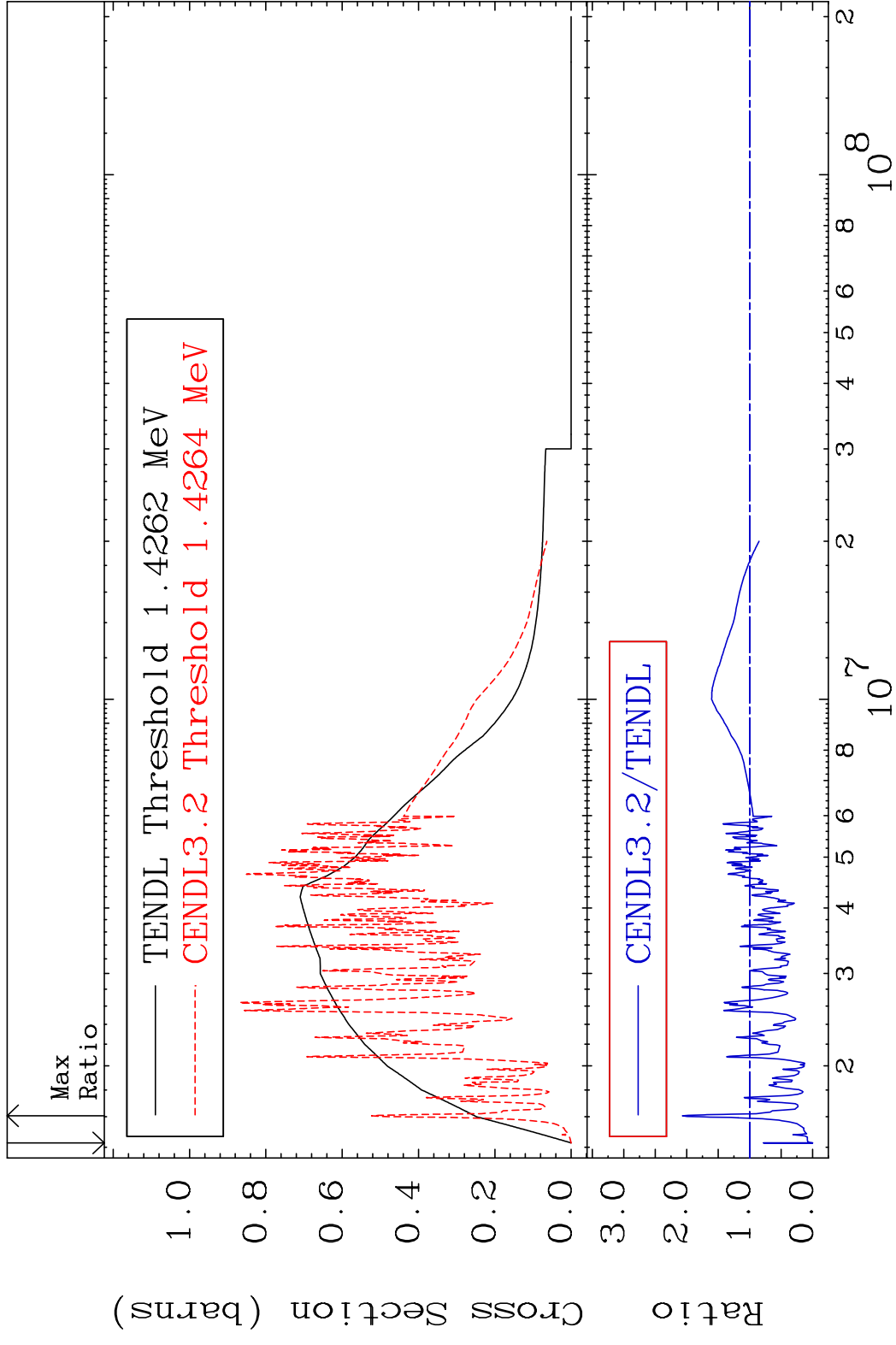
5 12-Mg-24

MAT 1225 (n, n') p 12-Mg-24
 Cross Section -100.0 To 9919. %

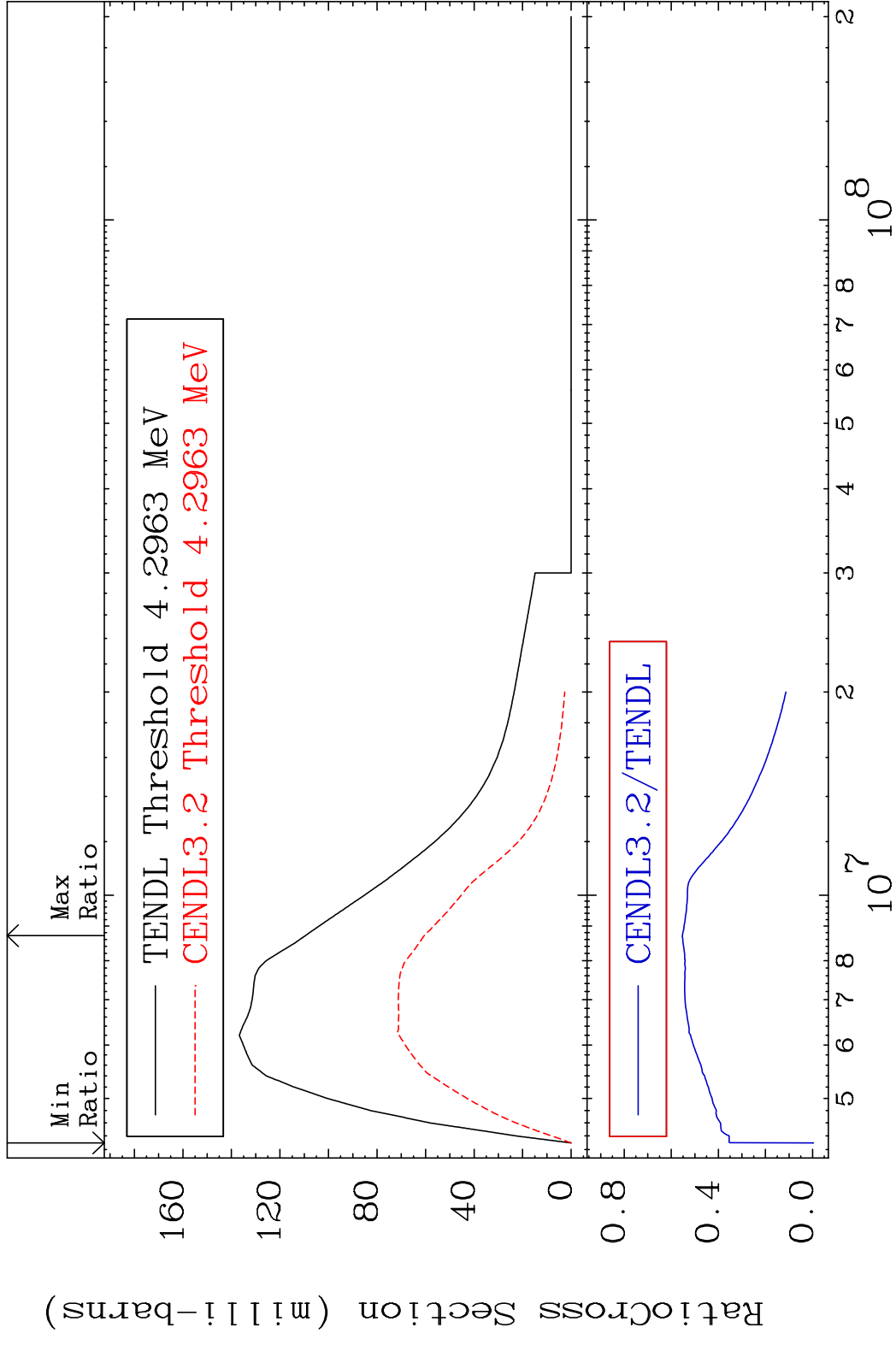


6 Incident Energy (eV) 12-Mg-24

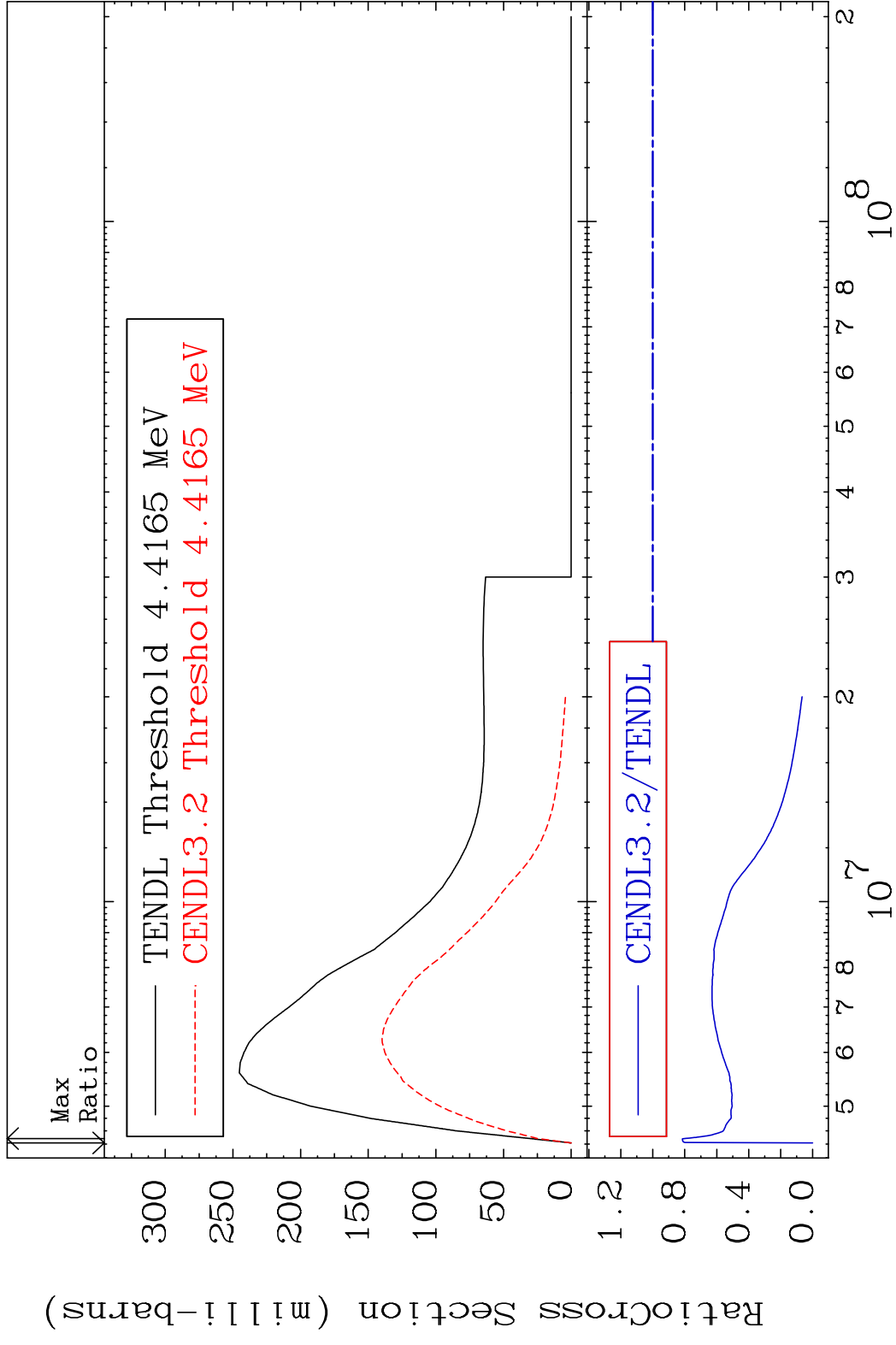
MAT 1225 MT= 51 (n,n') Level 12-Mg-24
 Cross Section -100.0 To 106.9 %



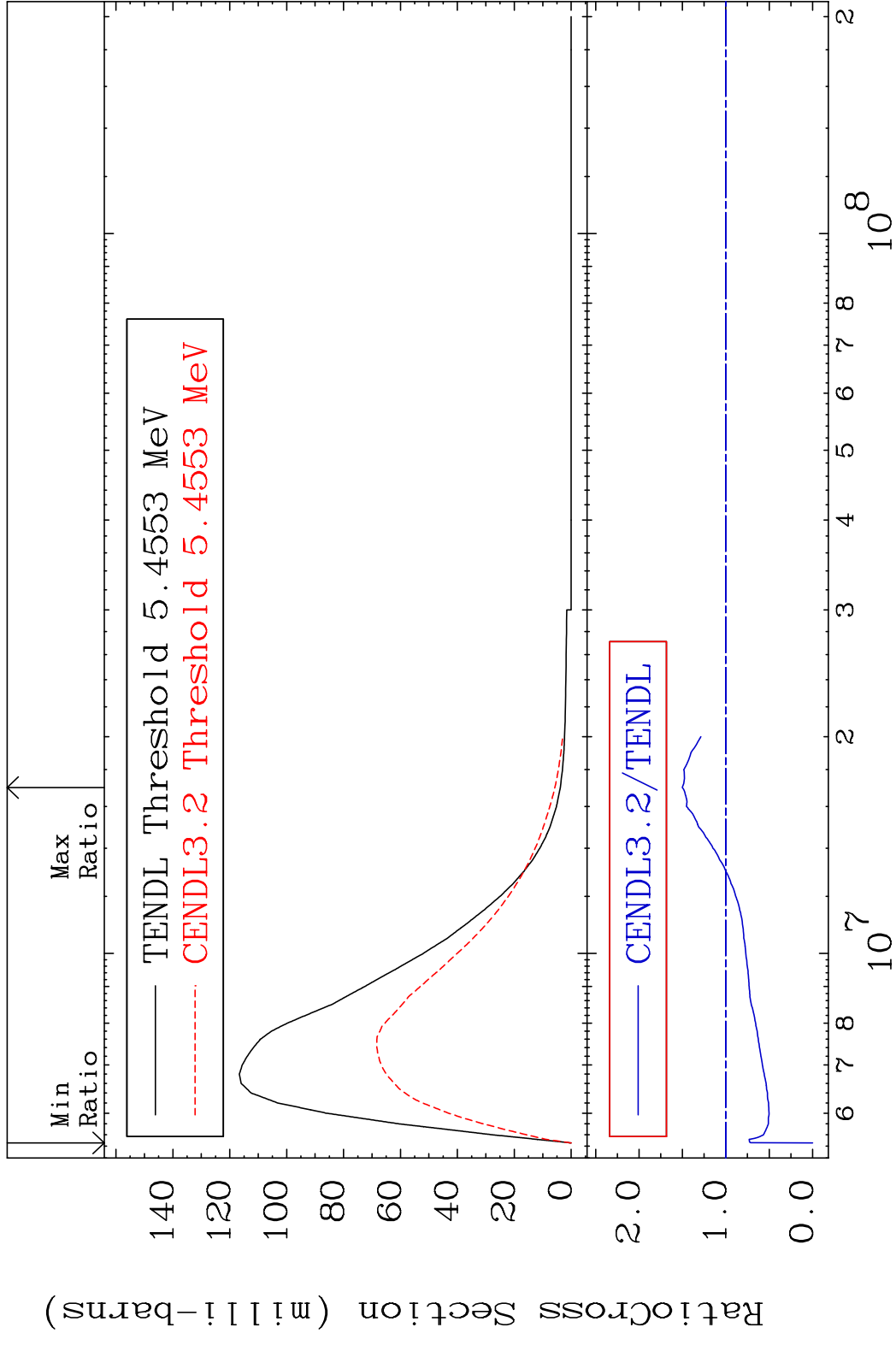
MAT 1225 MT= 52 (n, n') Level 12-Mg-24
 Cross Section -100.0 To -44.70%



MAT 1225 MT= 53 (n, n') Level 12-Mg-24
 Cross Section -100.0 To -18.48%

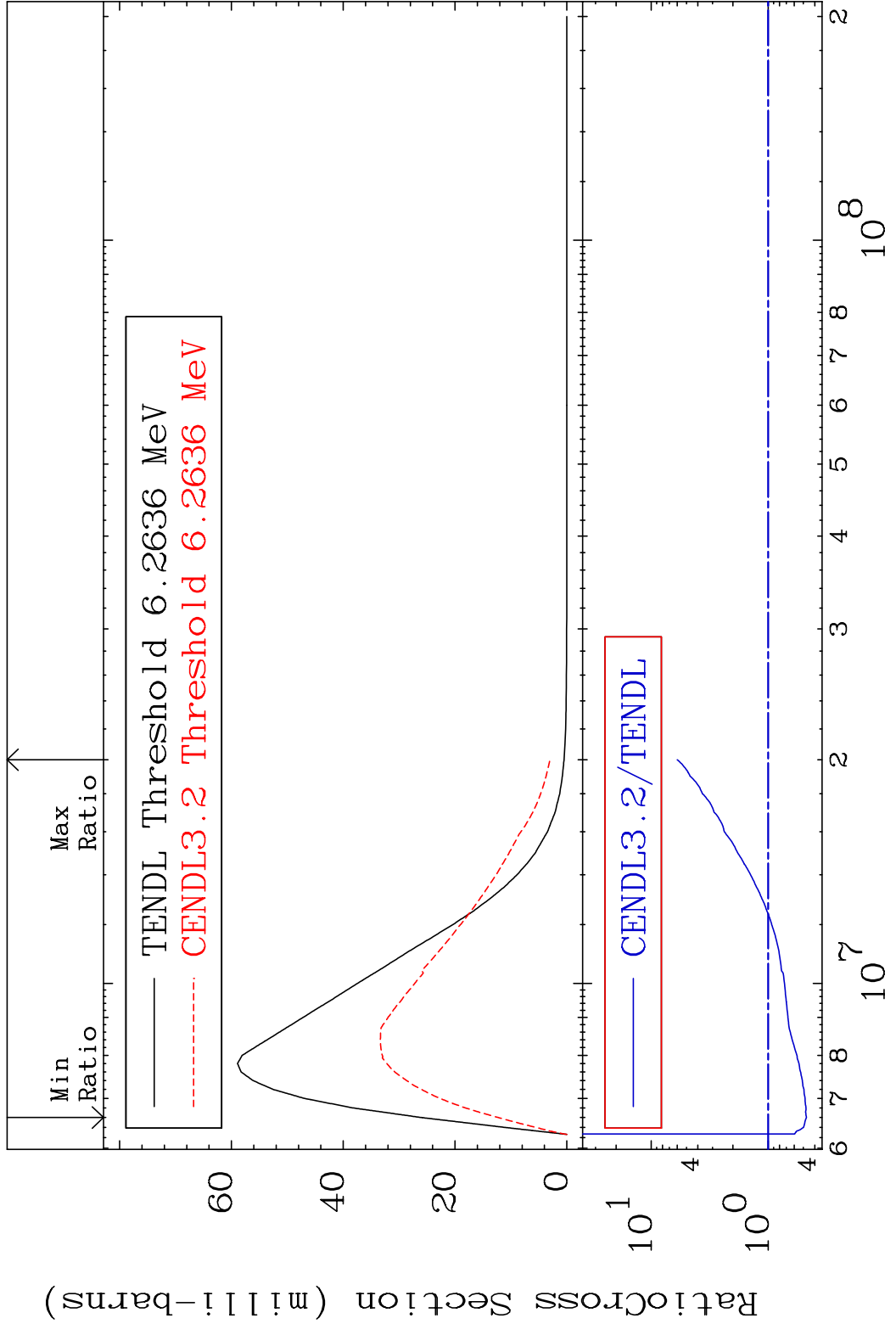


MAT 1225 MT= 54 (n,n') Level 12-Mg-24
 Cross Section -100.0 To 50.08 %



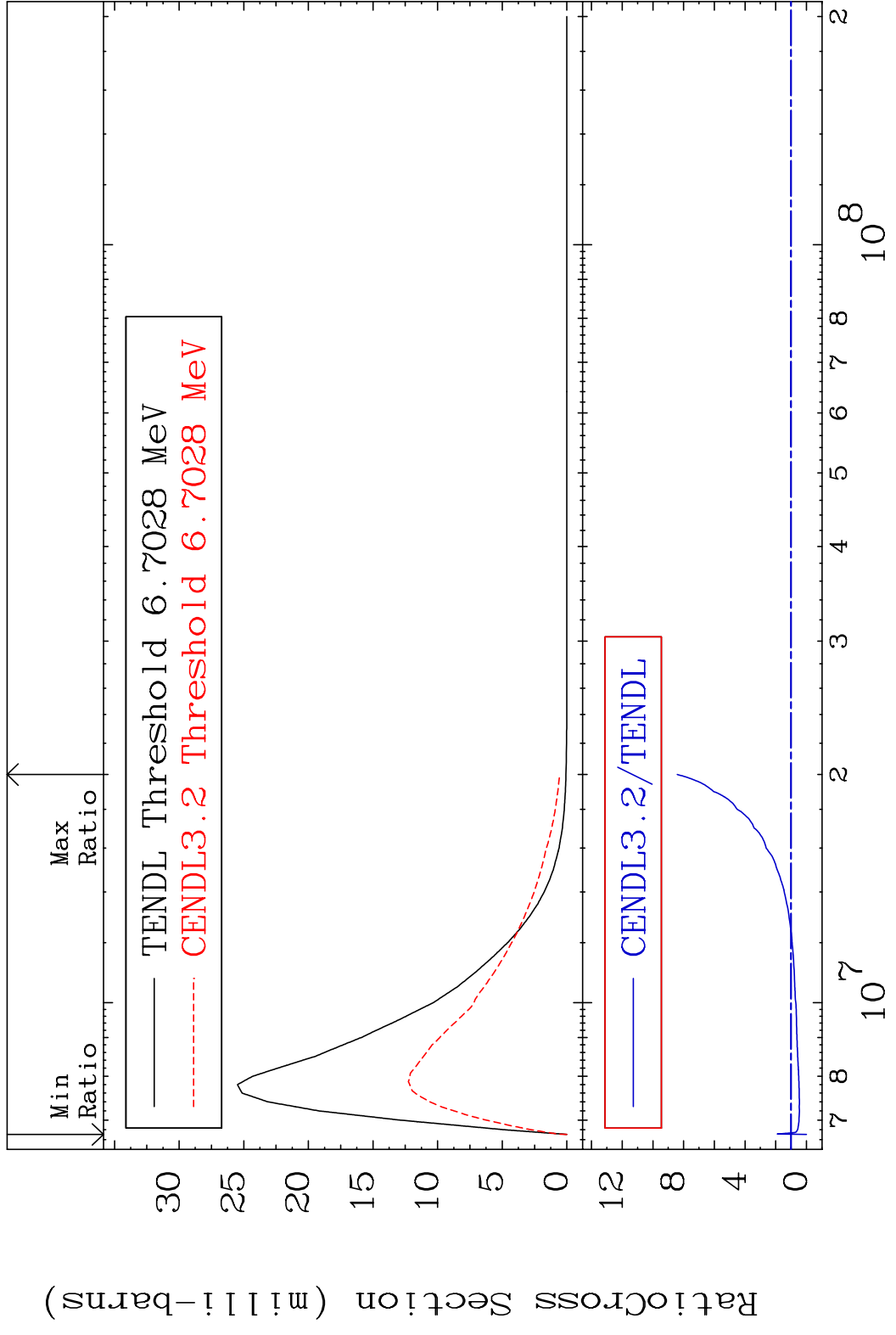
10 Incident Energy (eV) 12-Mg-24

MAT 1225 MT= 55 (n, n') Level 12-Mg-24
 Cross Section -52.88 To 500.4 %



11 Incident Energy (eV) 12-Mg-24

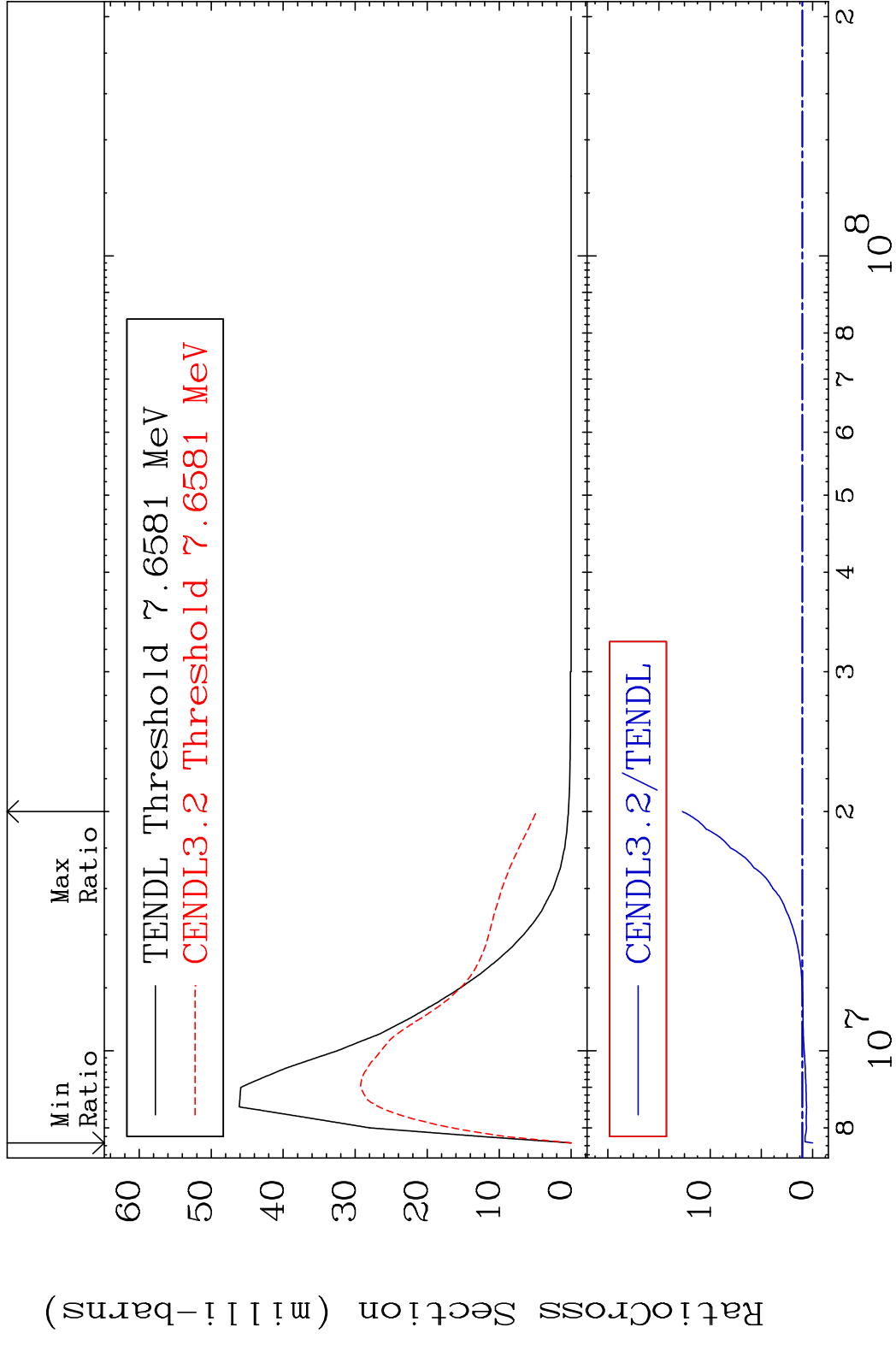
MAT 1225 MT= 56 (n,n') Level 12-Mg-24
 Cross Section -100.0 To 741.9 %



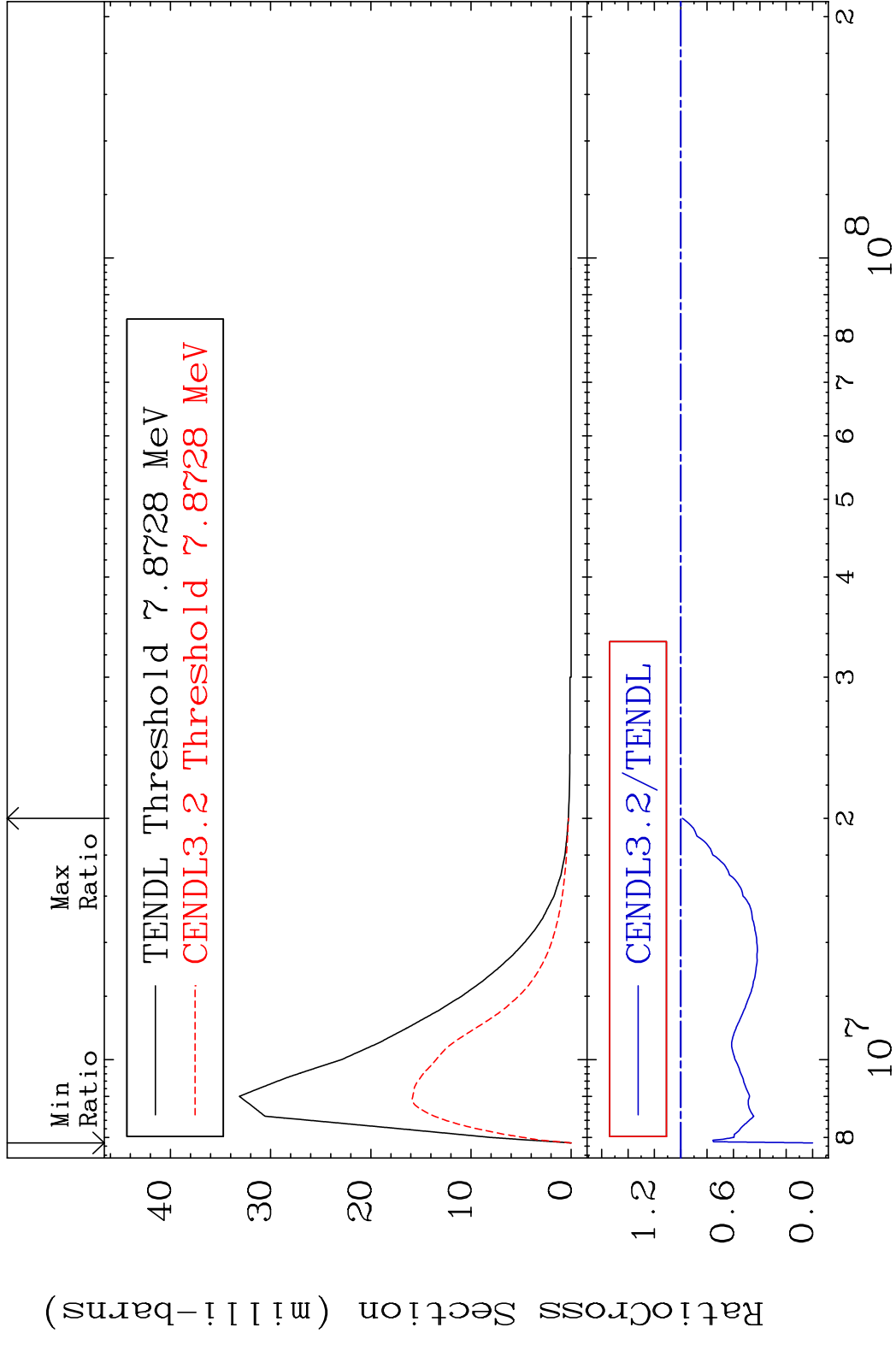
12

Incident Energy (eV) 12-Mg-24

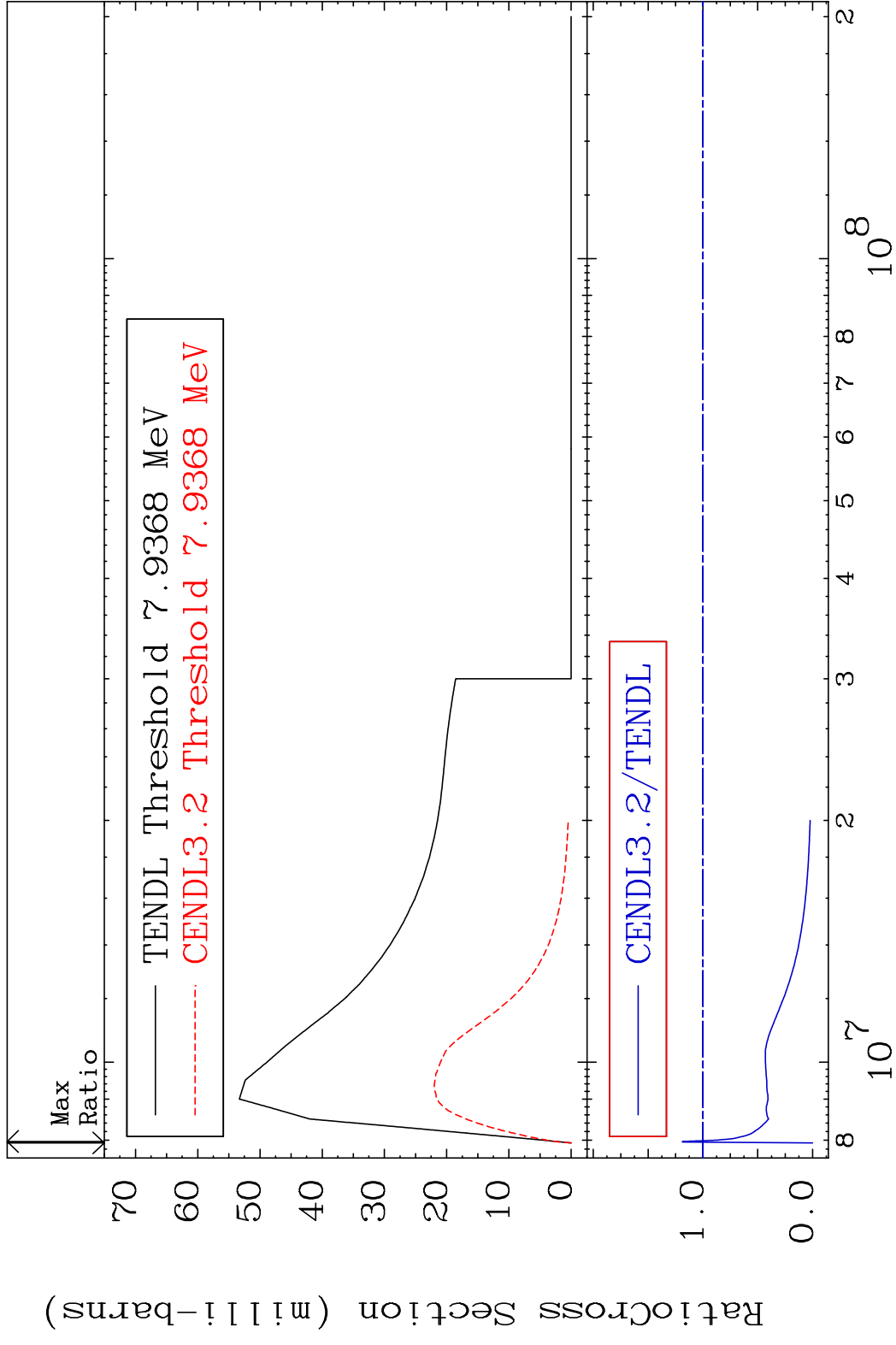
MAT 1225 MT= 57 (n, n') Level 12-Mg-24
 Cross Section -100.0 To 1171. %



MAT 1225 MT= 58 (n,n') Level 12-Mg-24
 Cross Section -100.0 To -1.228%

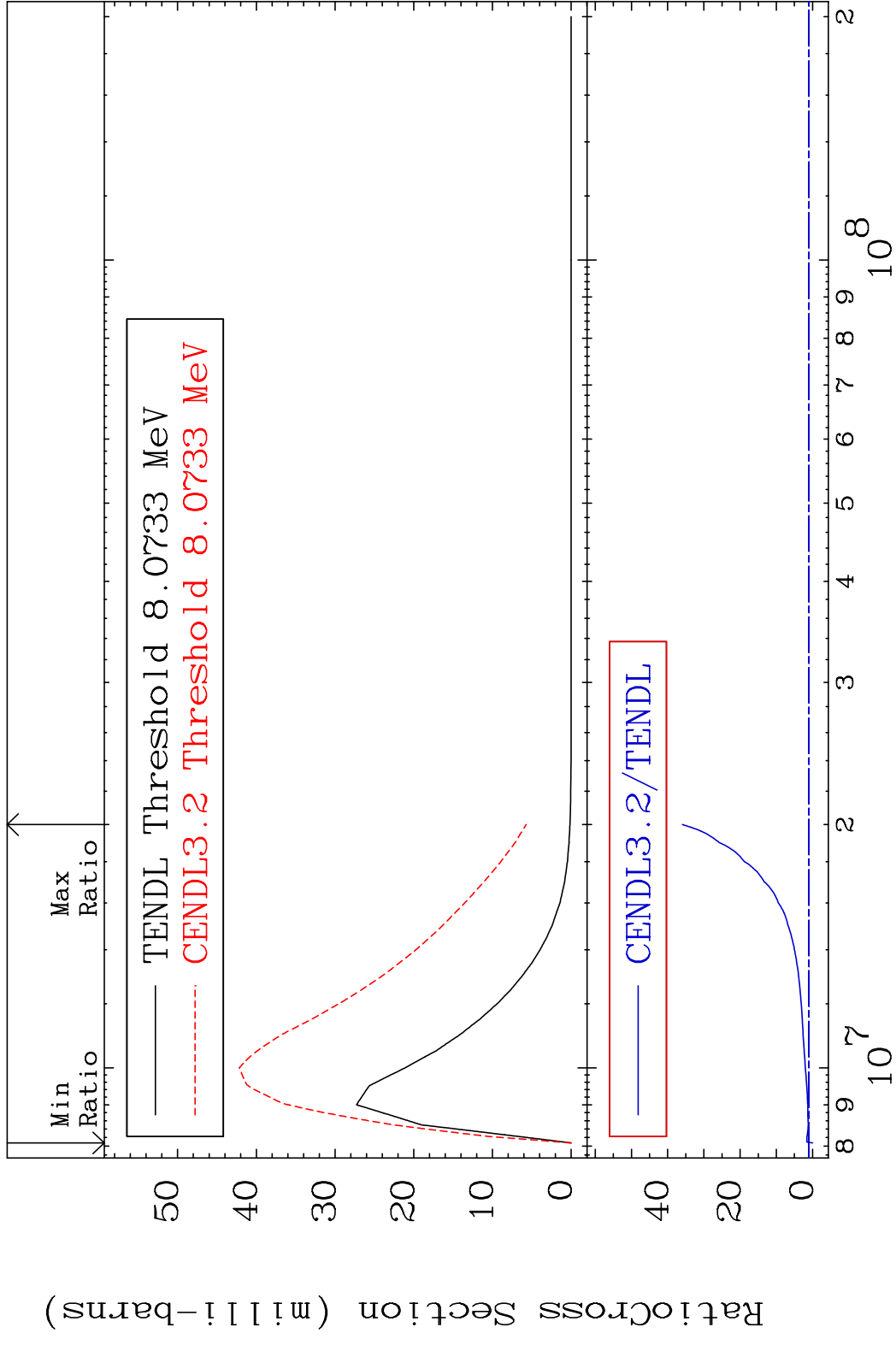


MAT 1225 MT= 59 (n, n') Level 12-Mg-24
 Cross Section -100.0 To 18.77 %



15 12-Mg-24

MAT 1225 MT= 60 (n, n') Level 12-Mg-24
 Cross Section -100.0 To 3494. %



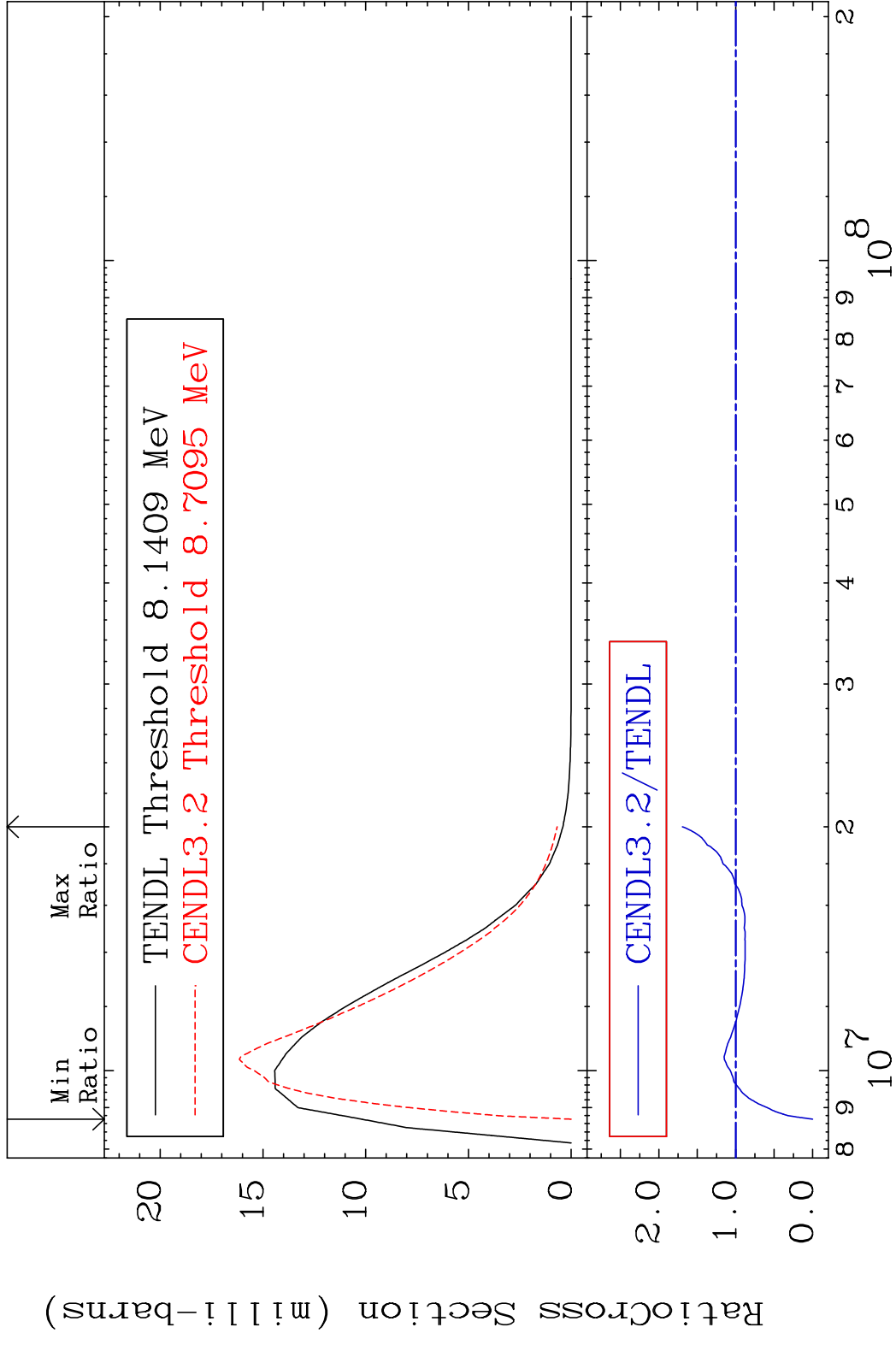
16 Incident Energy (eV) 12-Mg-24

MAT 1225

MT= 61 (n, n') Level

¹²Mg-24

Cross Section -100.0 To 69.42 %

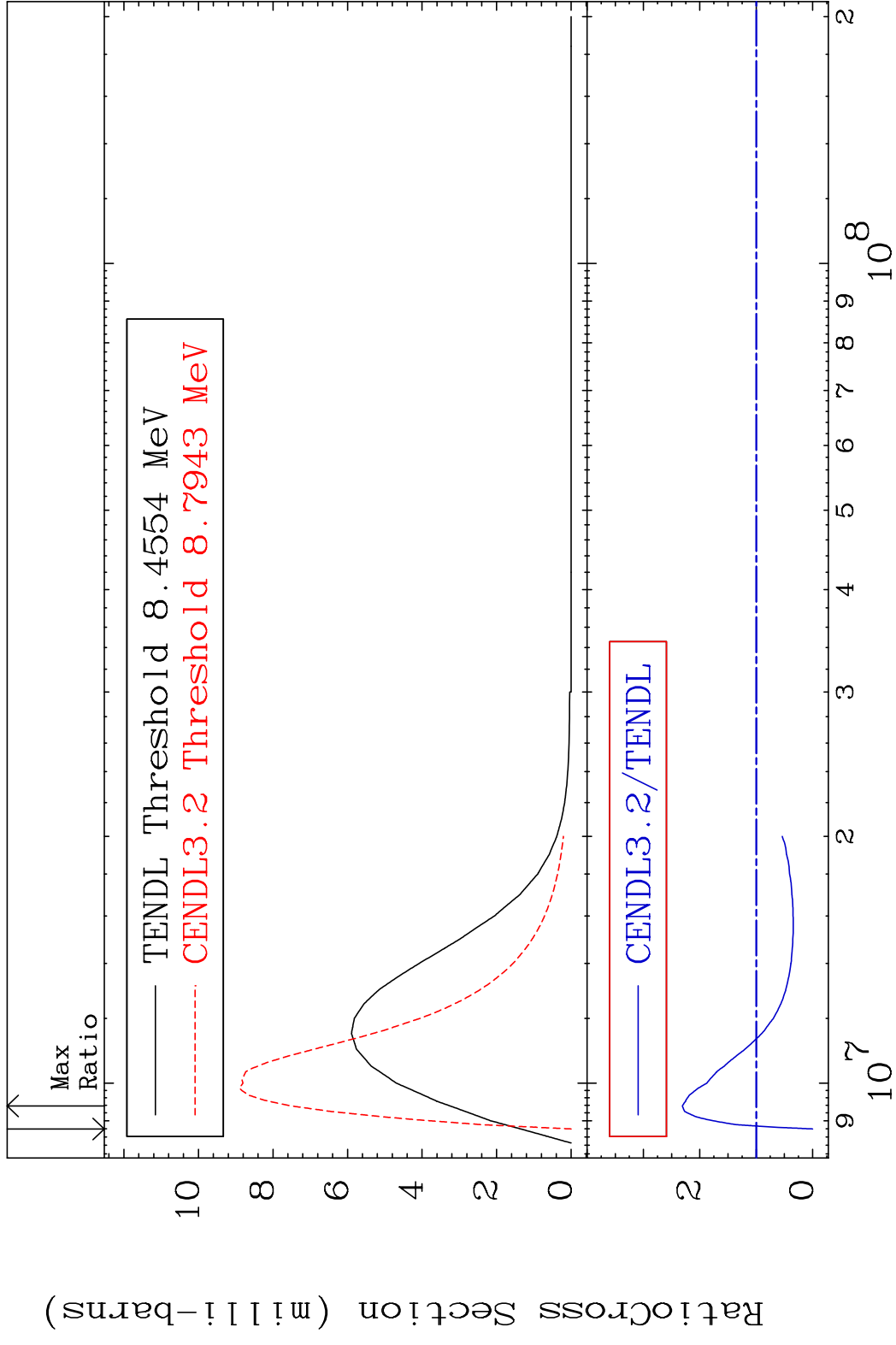


17

Incident Energy (eV)

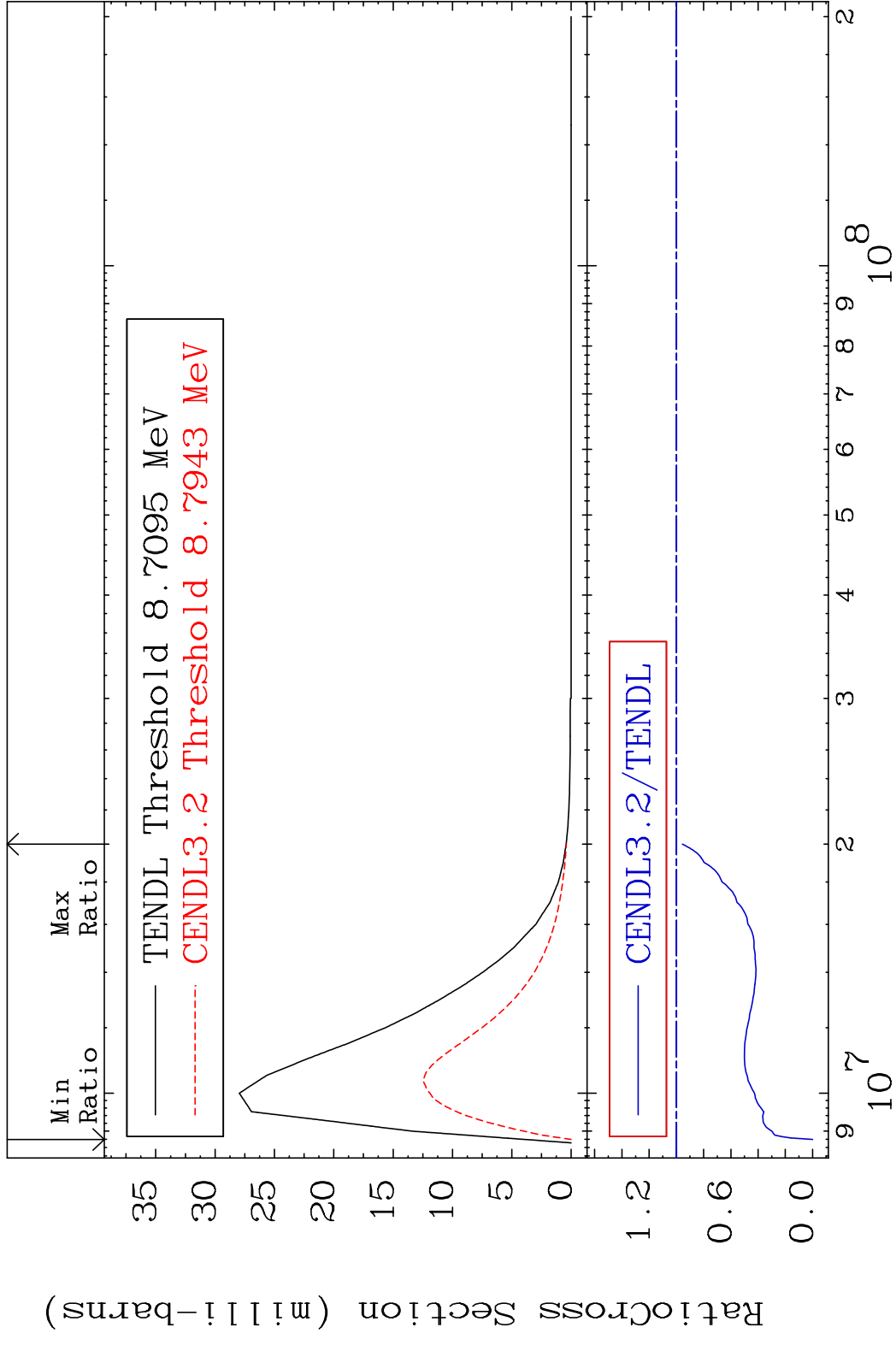
¹²Mg-24

MAT 1225 MT= 62 (n, n') Level 12-Mg-24
Cross Section -100.0 To 131.0 %



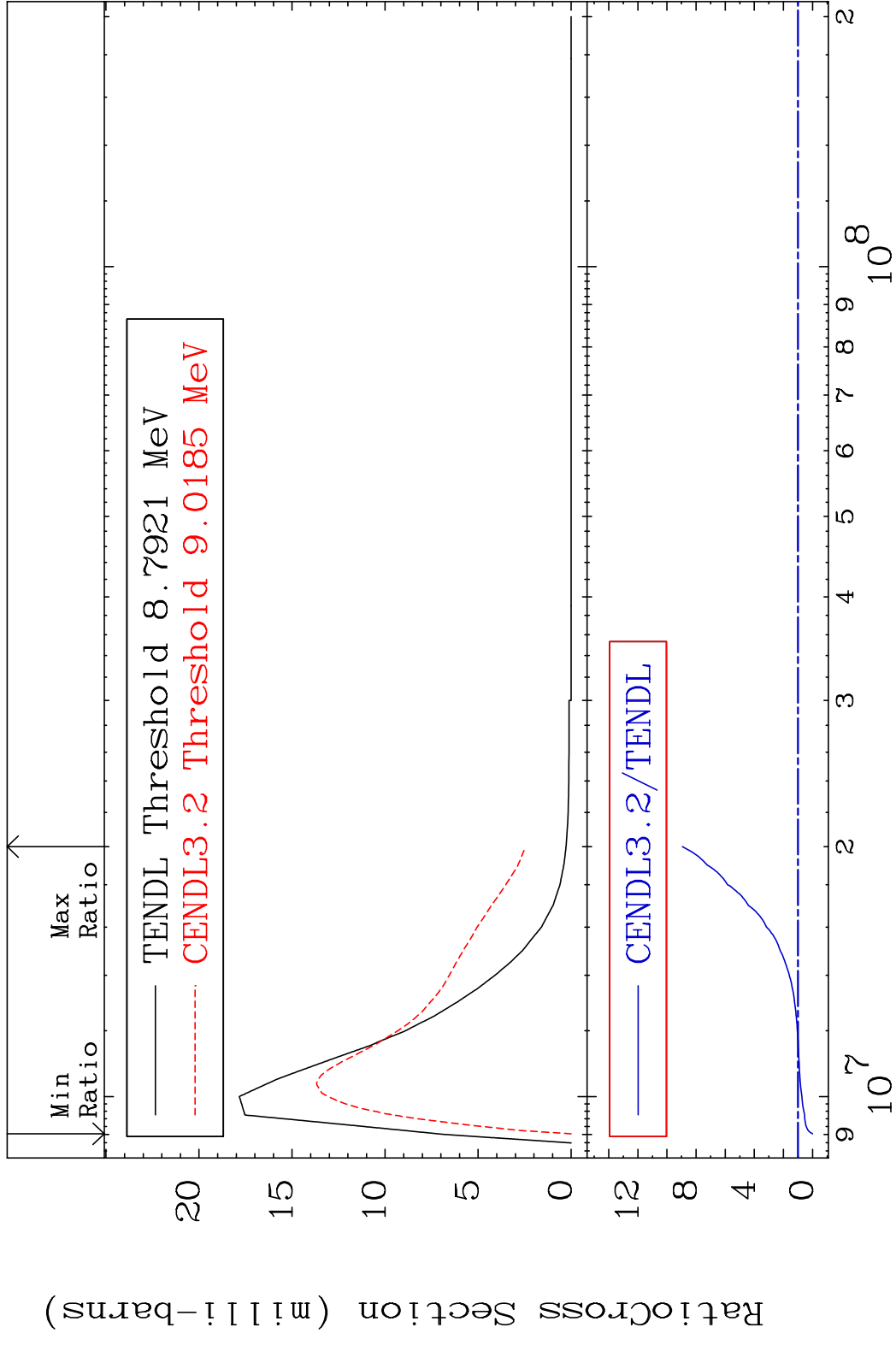
18 12-Mg-24

MAT 1225 MT= 63 (n, n') Level 12-Mg-24
 Cross Section -100.0 To -4.379%



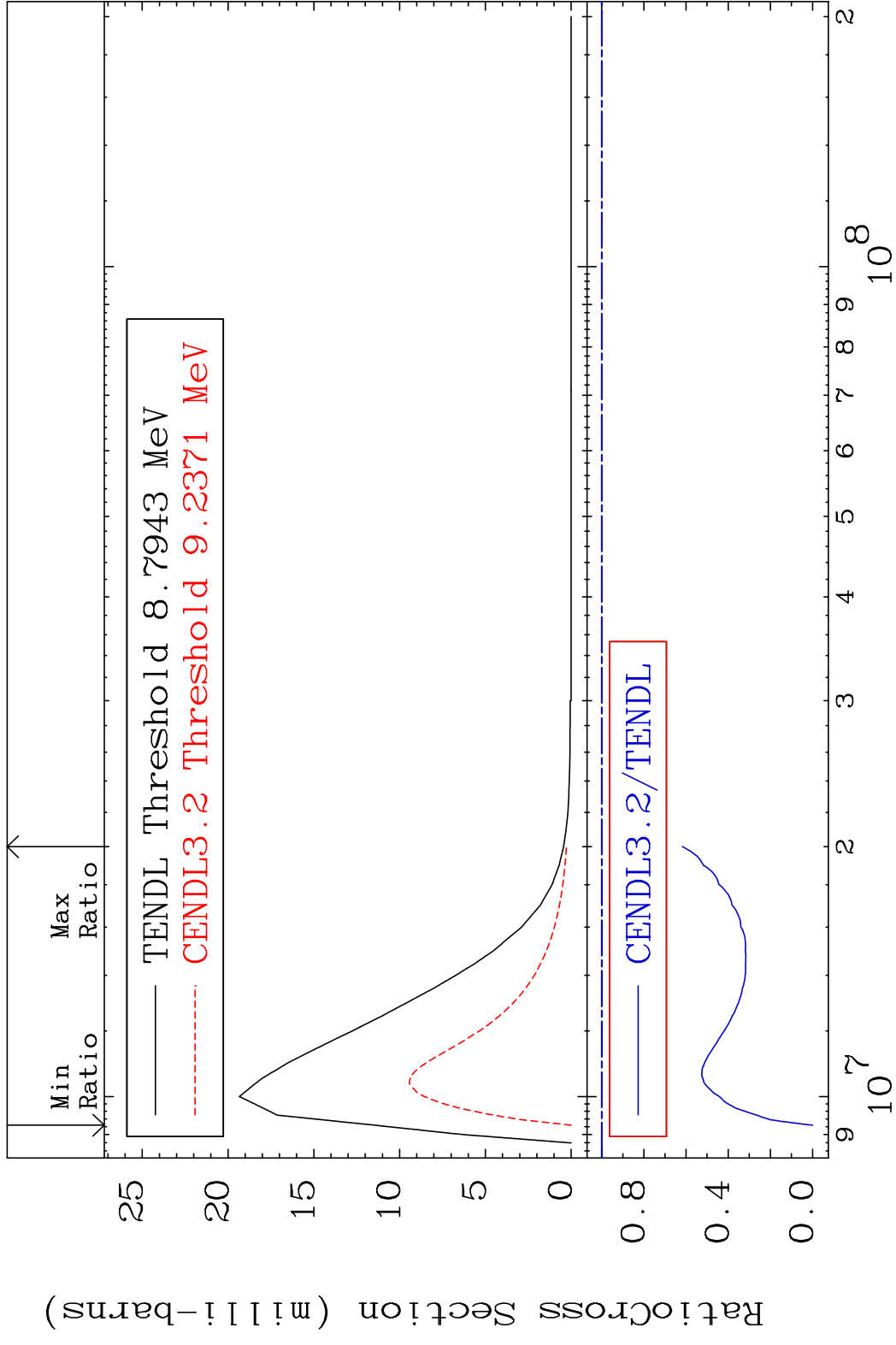
19 19 Incident Energy (eV) 12-Mg-24

MAT 1225 MT= 64 (n,n') Level 12-Mg-24
 Cross Section -100.0 To 794.4 %



20 Incident Energy (eV) 12-Mg-24

MAT 1225 MT= 65 (n,n') Level 12-Mg-24
 Cross Section -100.0 To -38.26%



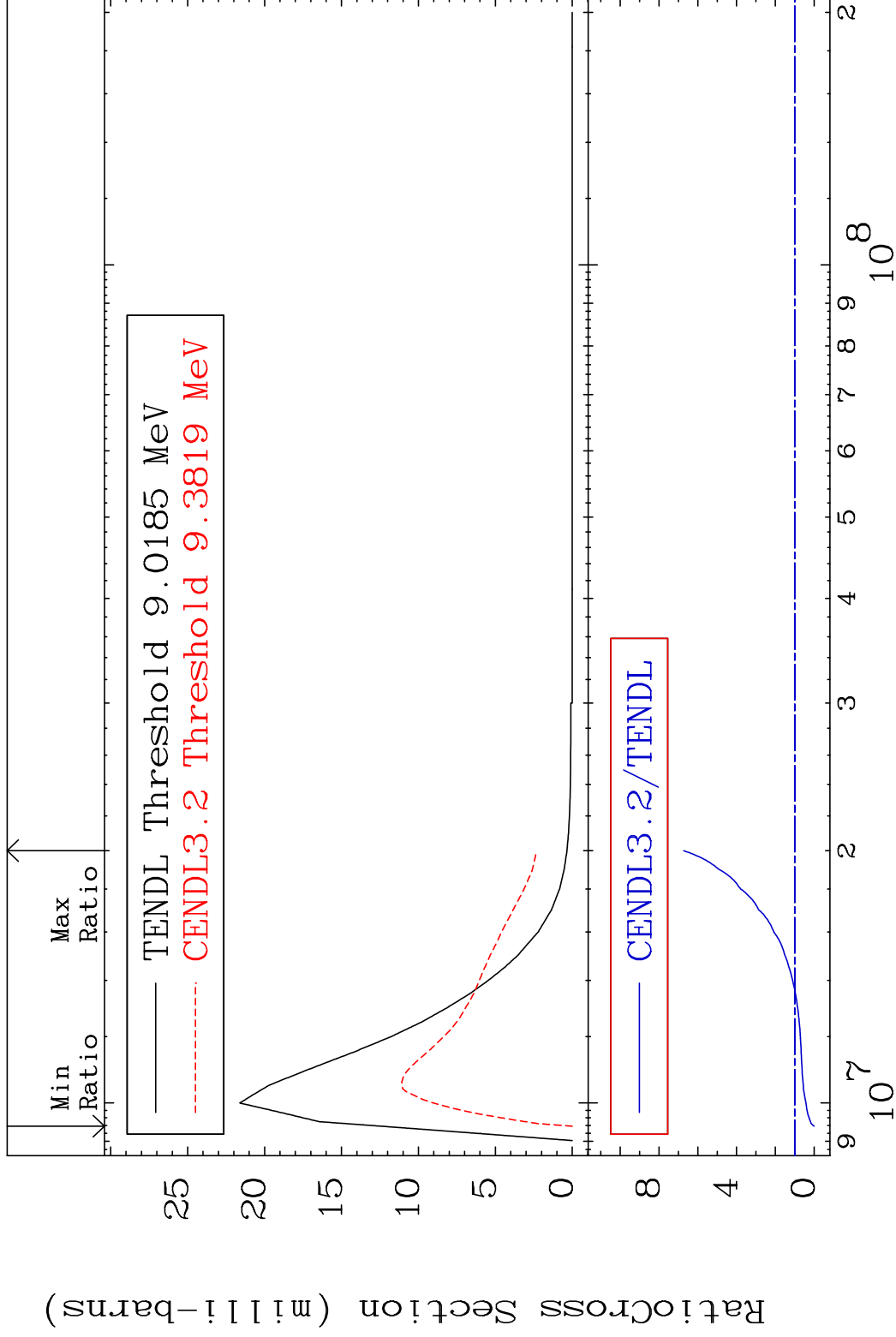
21 Incident Energy (eV) 12-Mg-24

MAT 1225

MT= 66 (n,n') Level

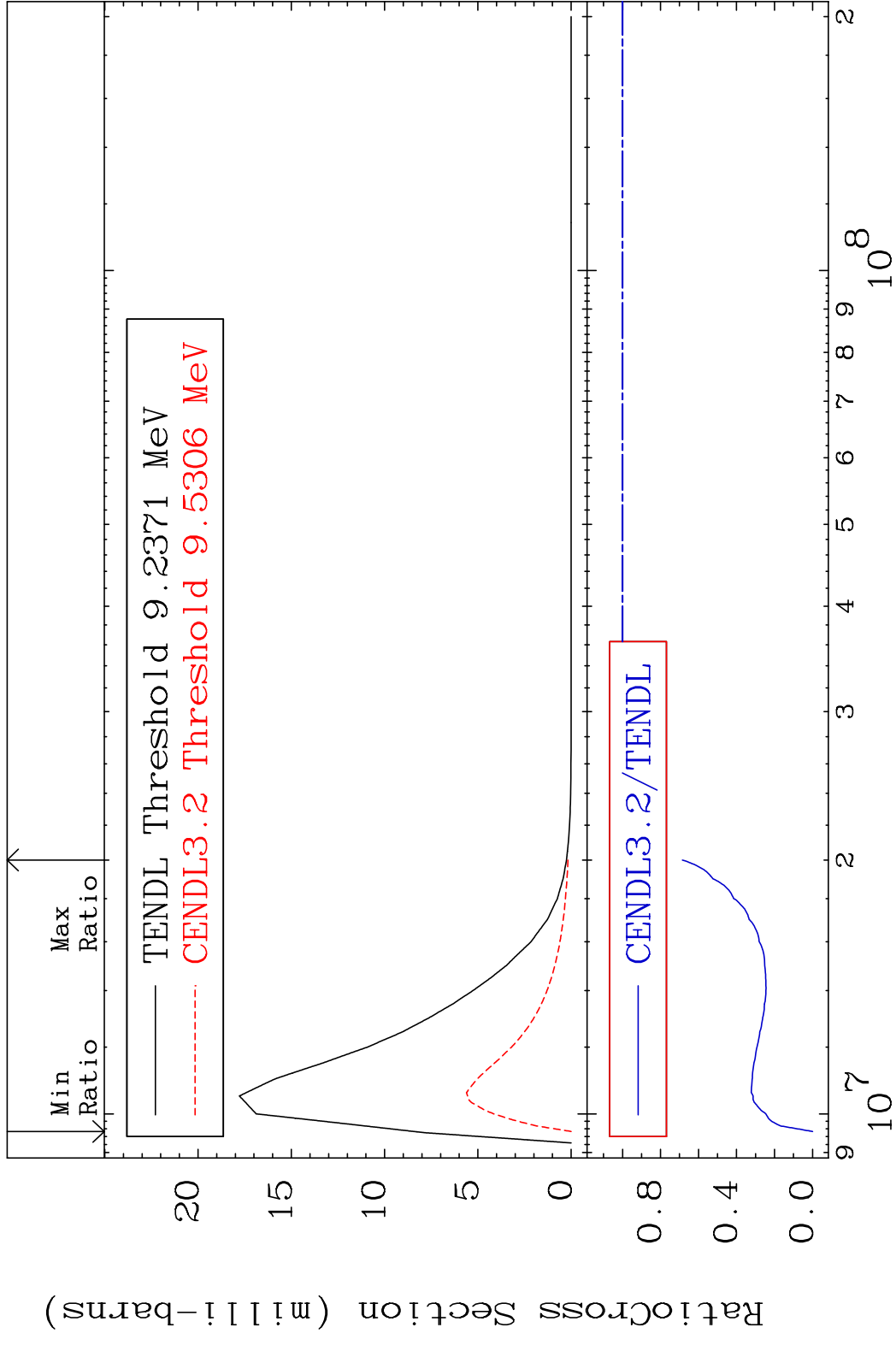
12-Mg-24

Cross Section -100.0 To 572.9 %

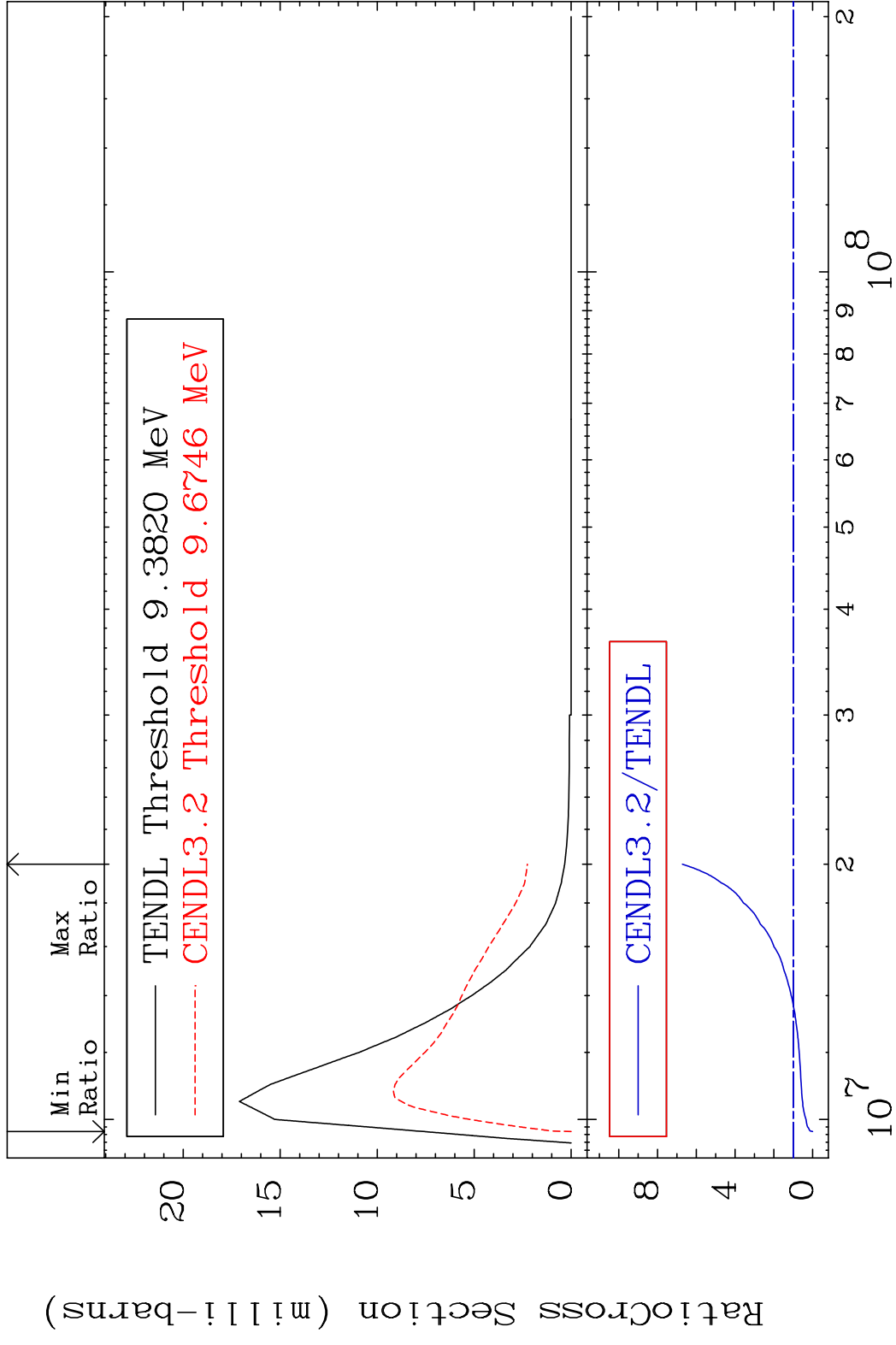


22

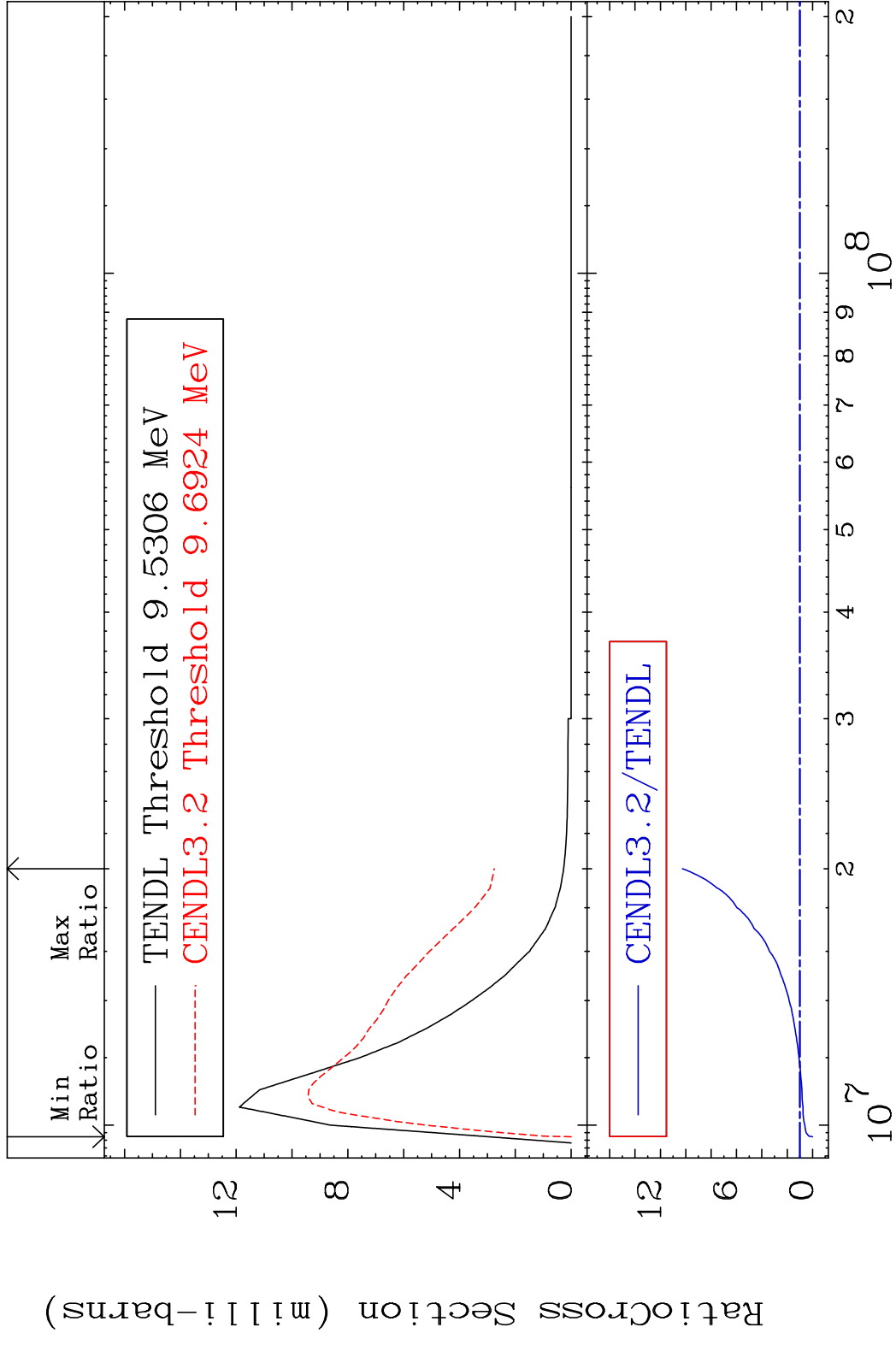
MAT 1225 MT= 67 (n, n') Level 12-Mg-24
 Cross Section -100.0 To -31.48%



MAT 1225 MT= 68 (n, n') Level 12-Mg-24
 Cross Section -100.0 To 571.6 %



MAT 1225 MT= 69 (n,n') Level 12-Mg-24
 Cross Section -100.0 To 926.9 %



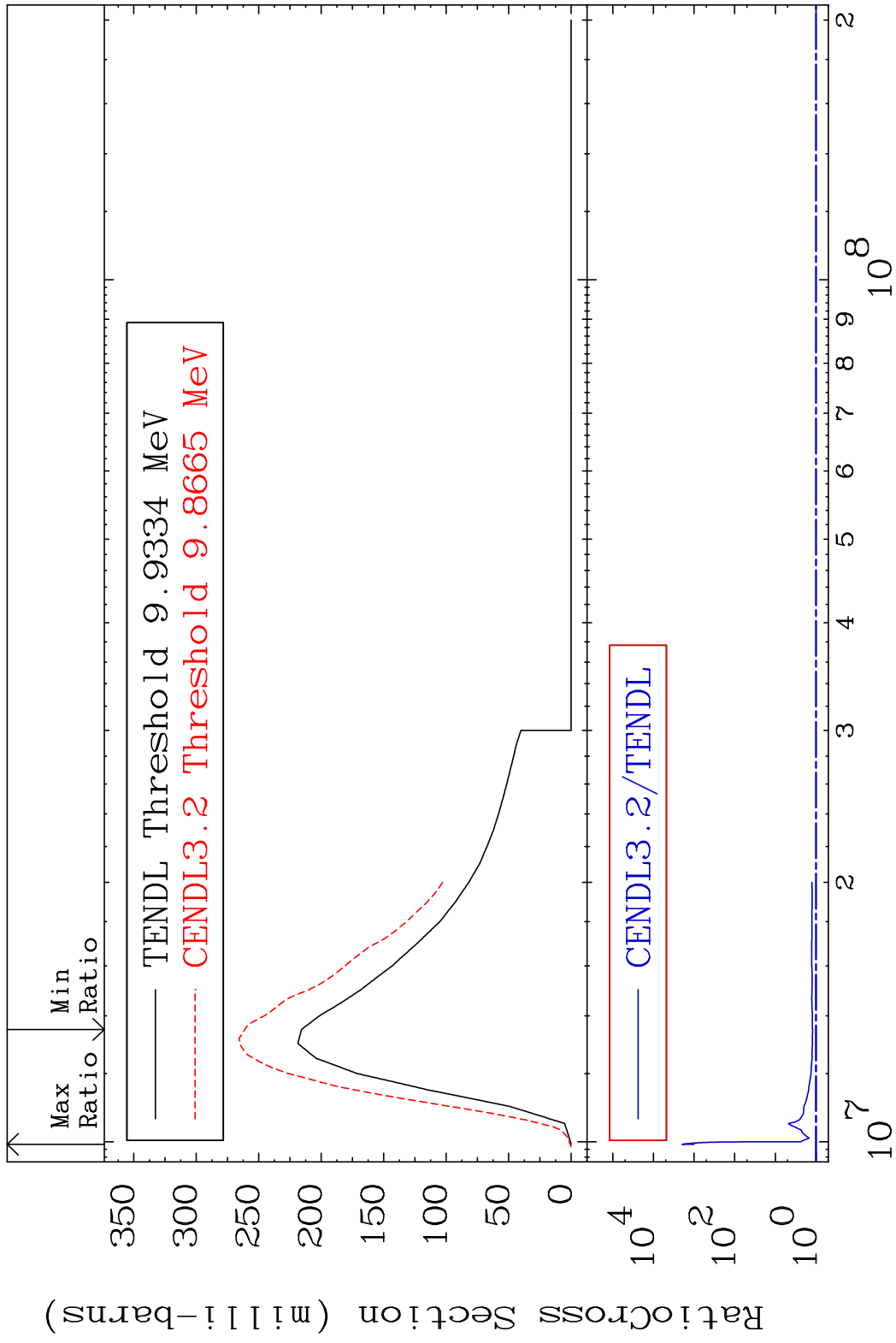
25

MAT 1225

(n, n') Continuum

12-Mg-24

Cross Section 21.03 To 9999. %



26

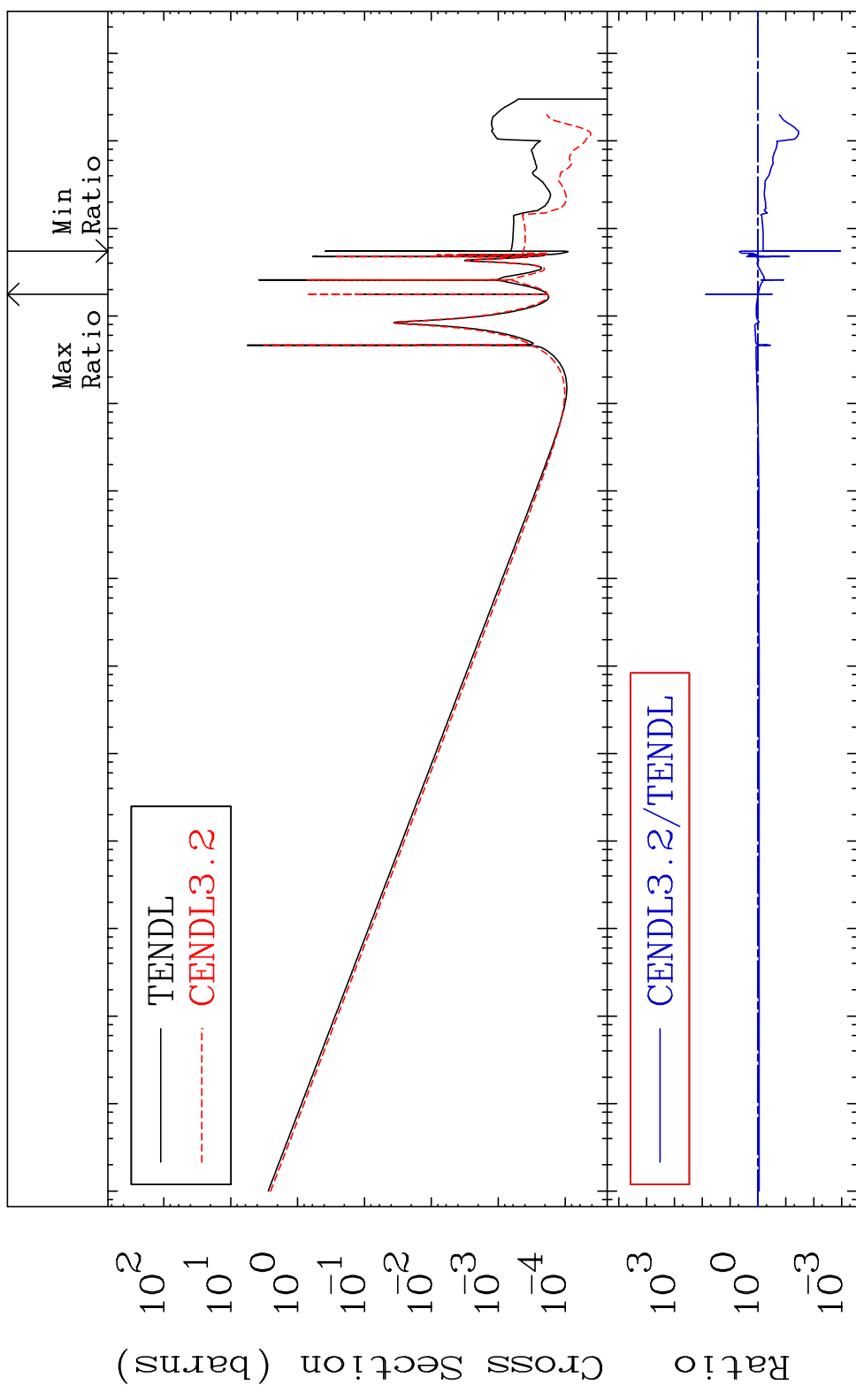
Incident Energy (eV)

12-Mg-24

MAT 1225

(n, γ)

Cross Section -99.89 To 7393. %
12-Mg-24

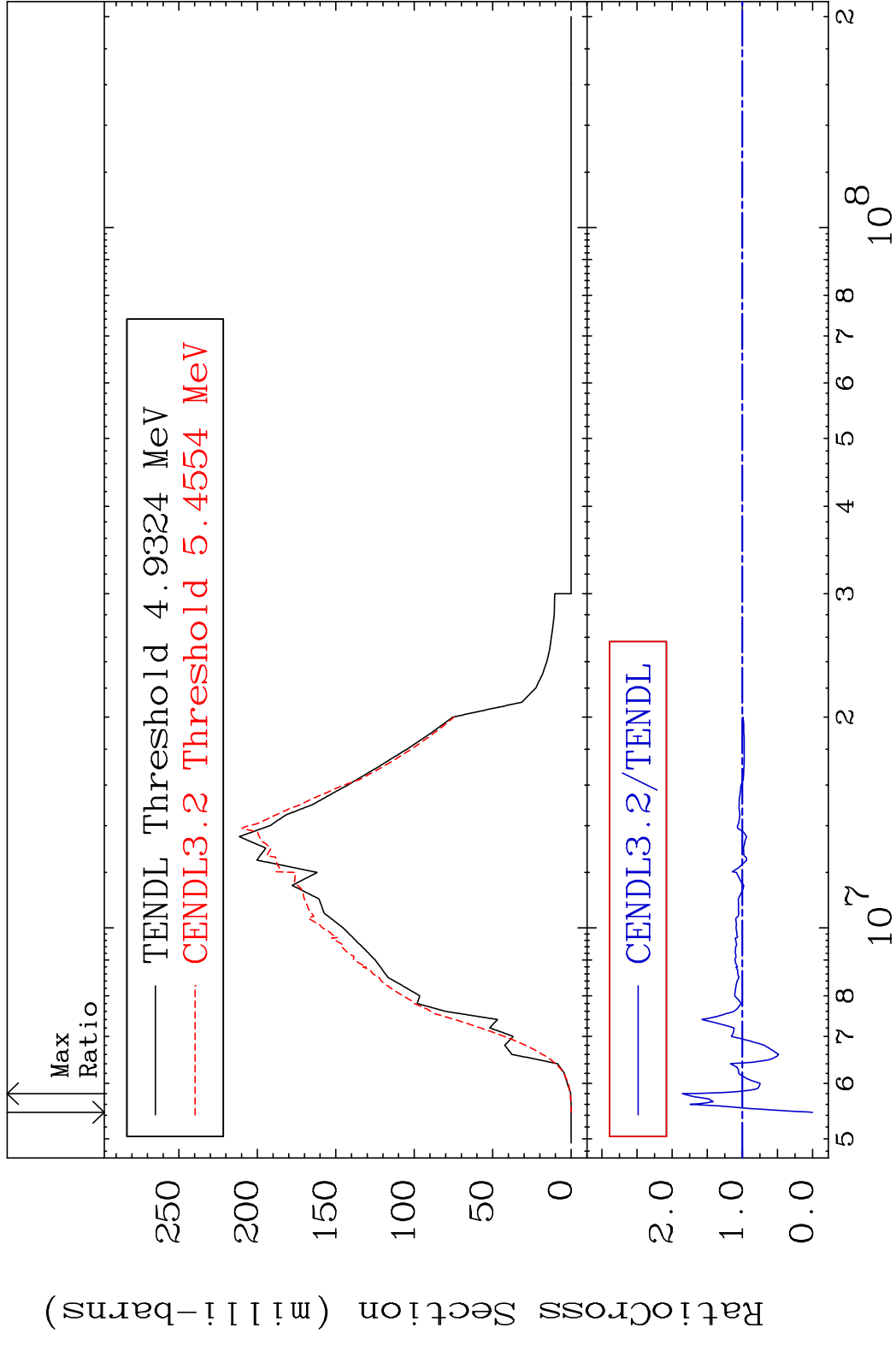


27

Incident Energy (eV)

12-Mg-24

MAT 1225 (n,p) 12-Mg-24
 Cross Section -100.0 To 85.46 %

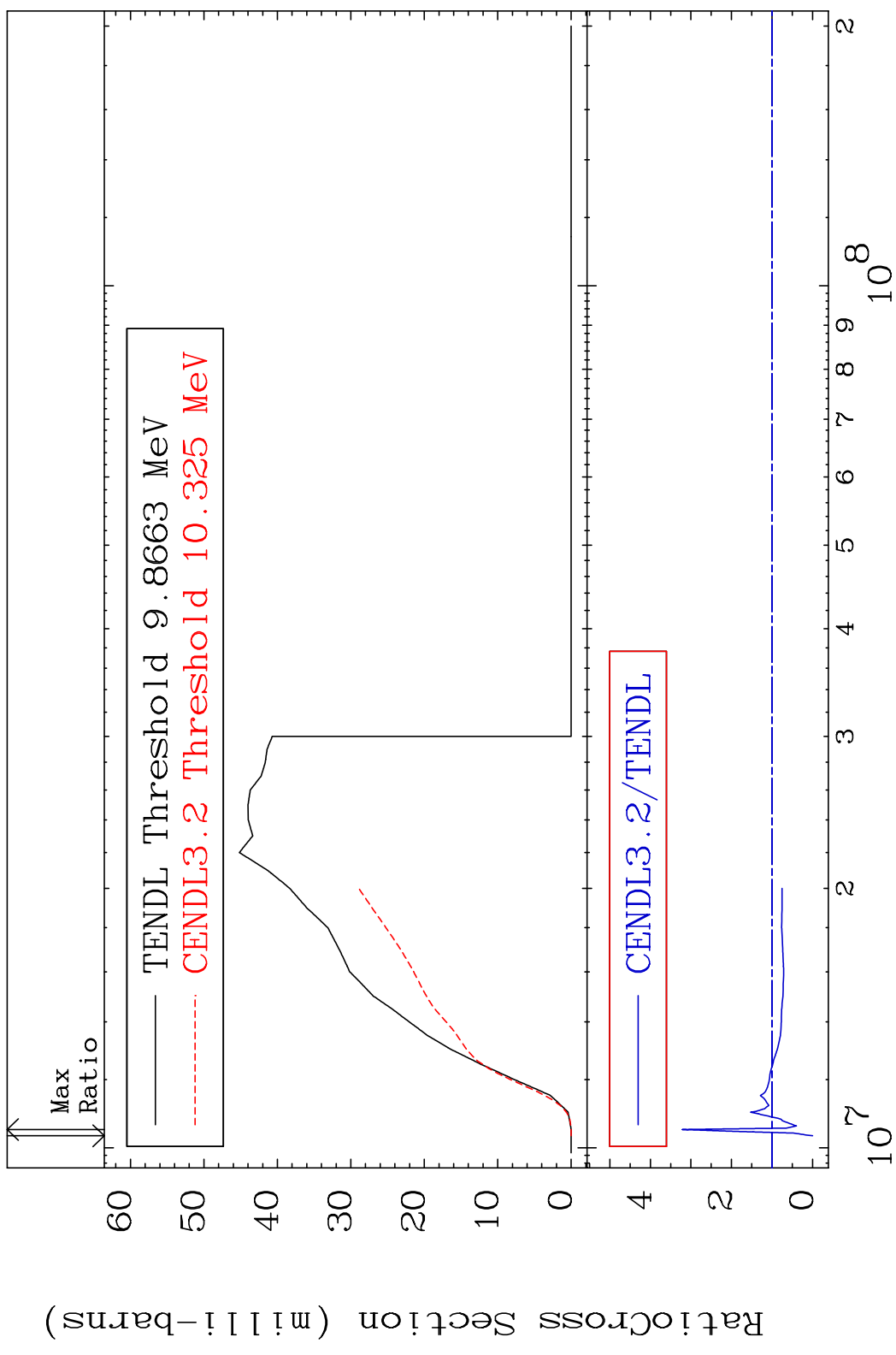


MAT 1225

(n,d)

¹²Mg-24

Cross Section -100.0 To 221.1 %

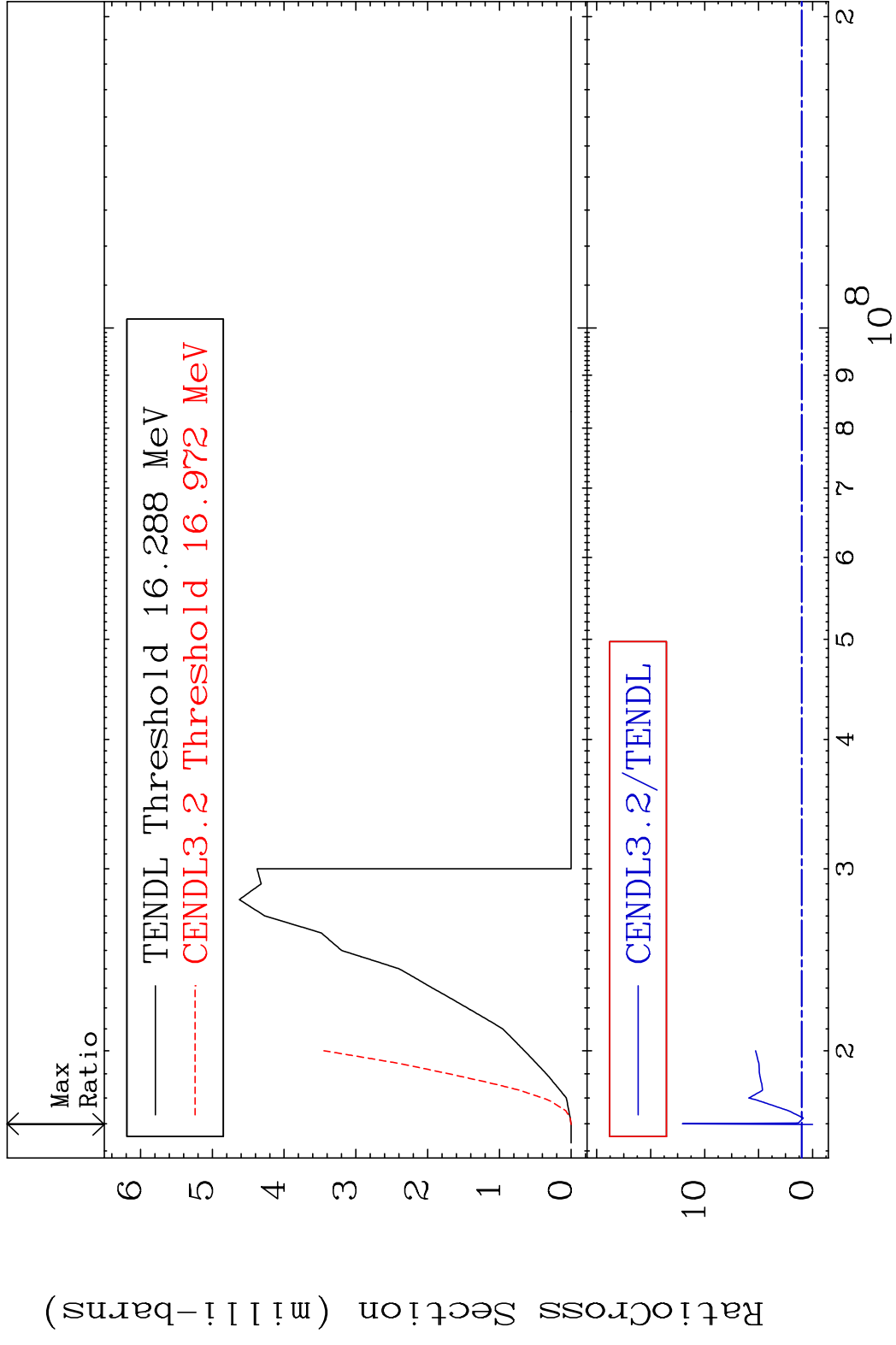


29

Incident Energy (eV)

¹²Mg-24

MAT 1225 (n, t) 12-Mg-24
 Cross Section -100.0 To 1106. %



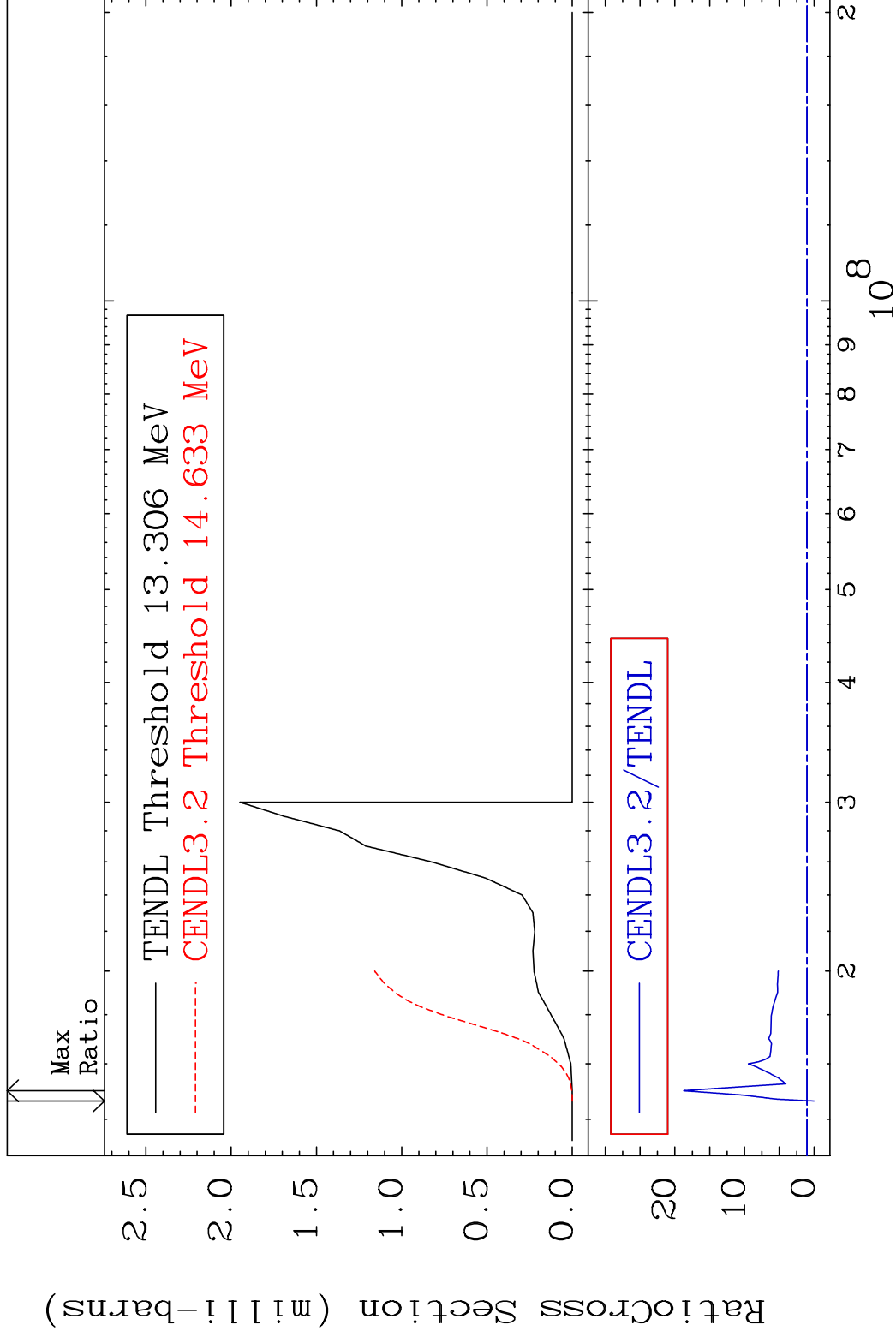
30 Incident Energy (eV) 12-Mg-24

MAT 1225

(n, He-3)

¹²Mg-24

Cross Section -100.0 To 1774. %

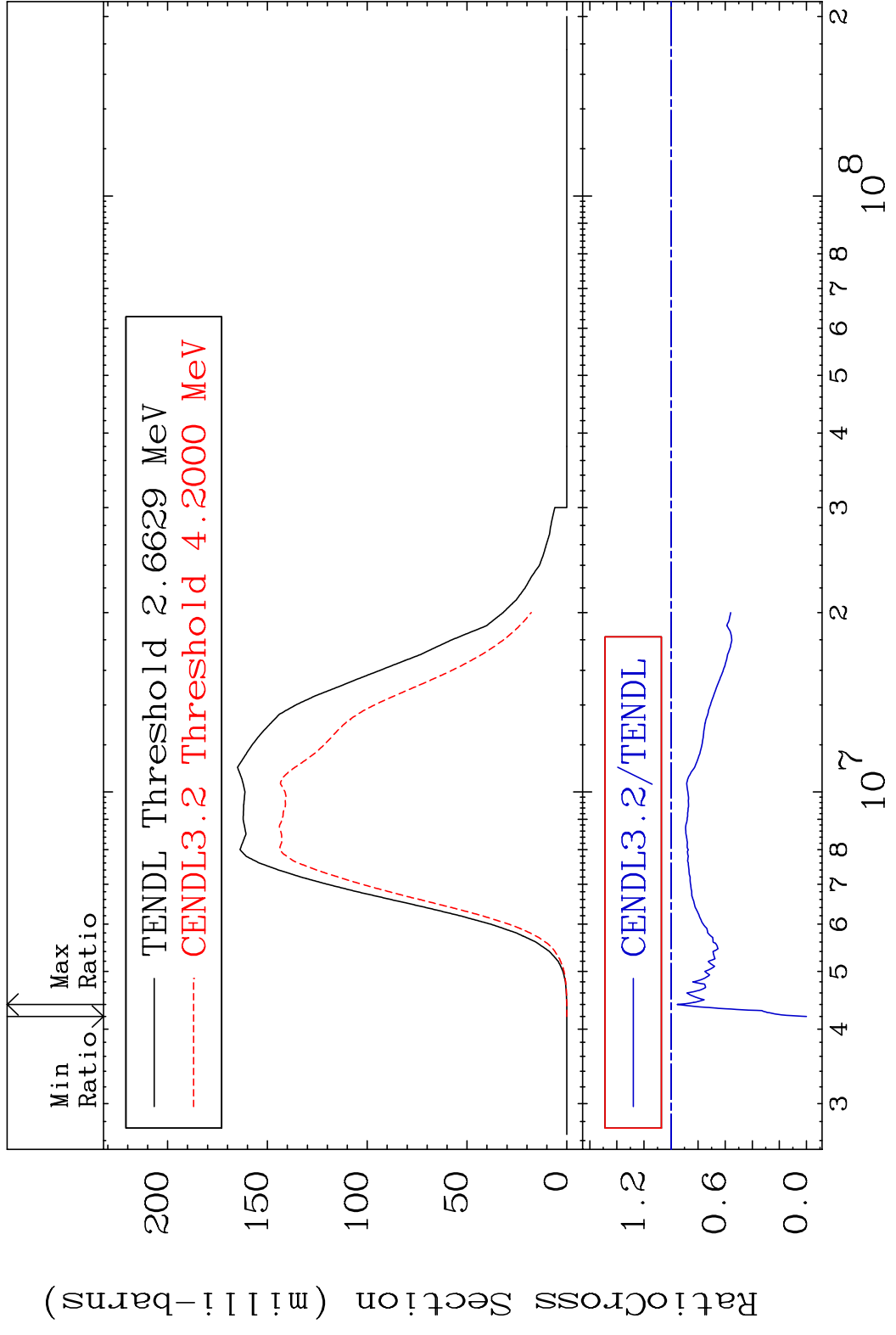


31

Incident Energy (eV)

¹²Mg-24

MAT 1225 (n, α) 12-Mg-24
 Cross Section -100.0 To -4.558%

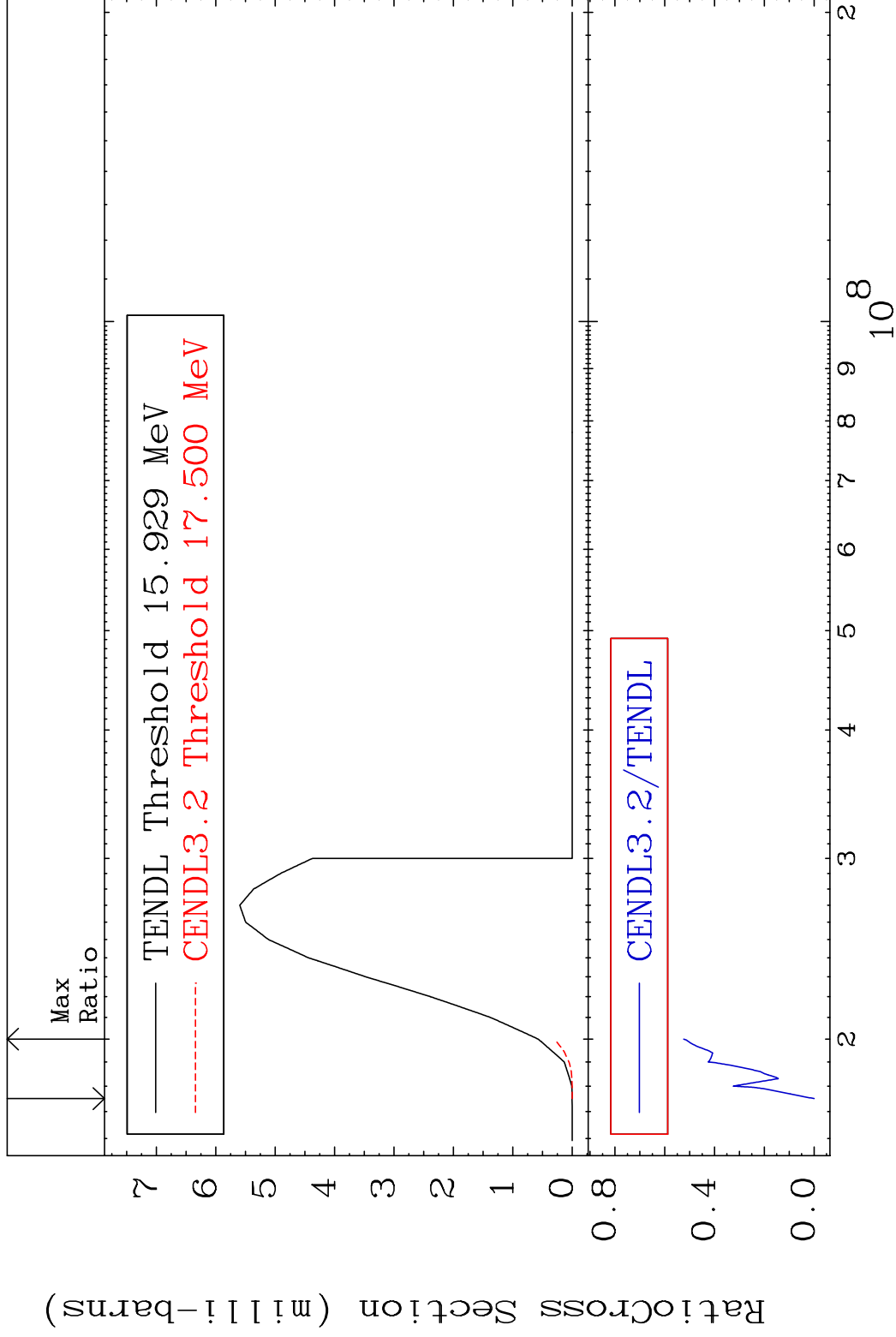


MAT 1225

(n,2p)

¹²Mg-24

Cross Section -100.0 To -47.59%

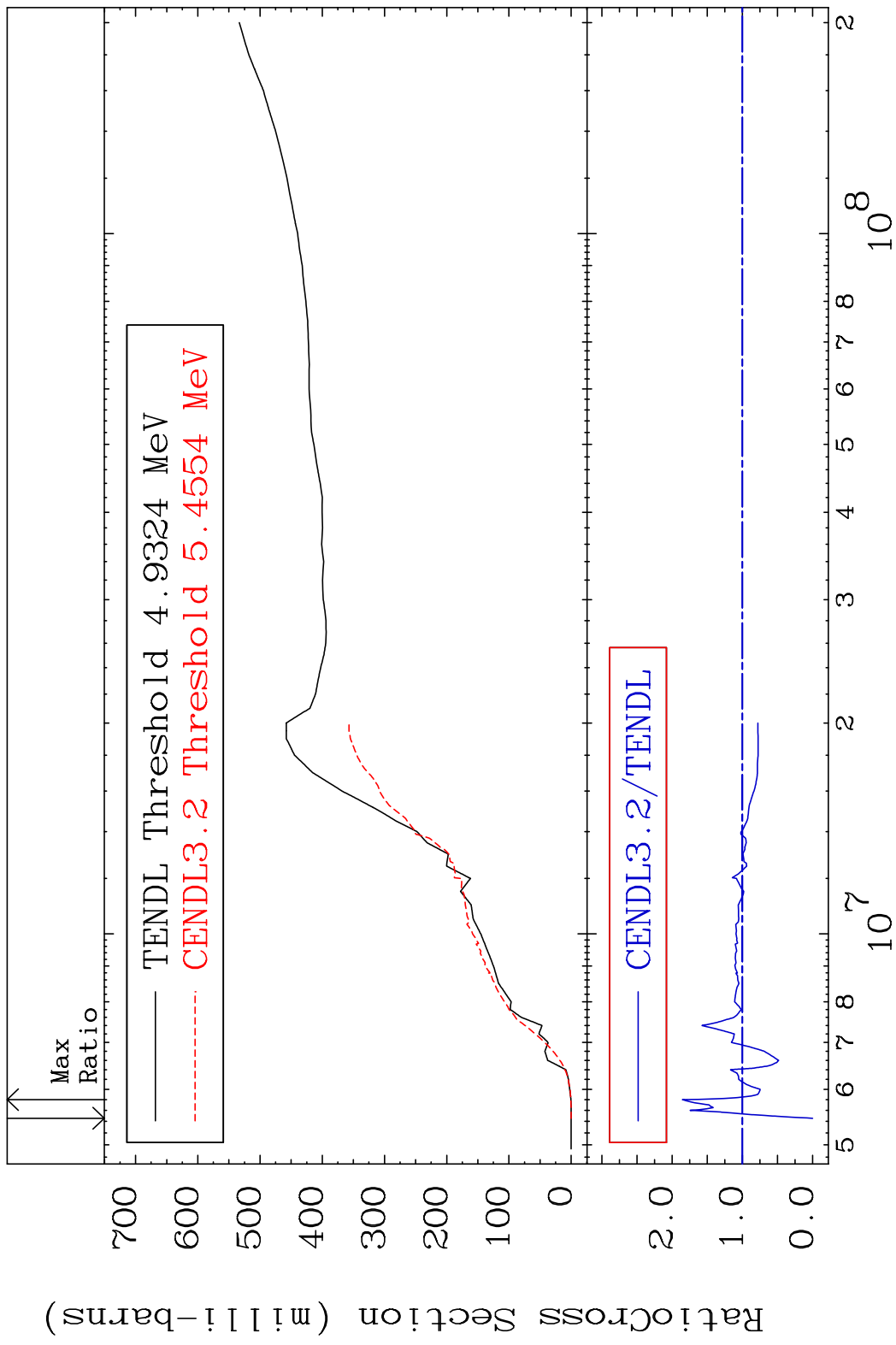


33

Incident Energy (eV)

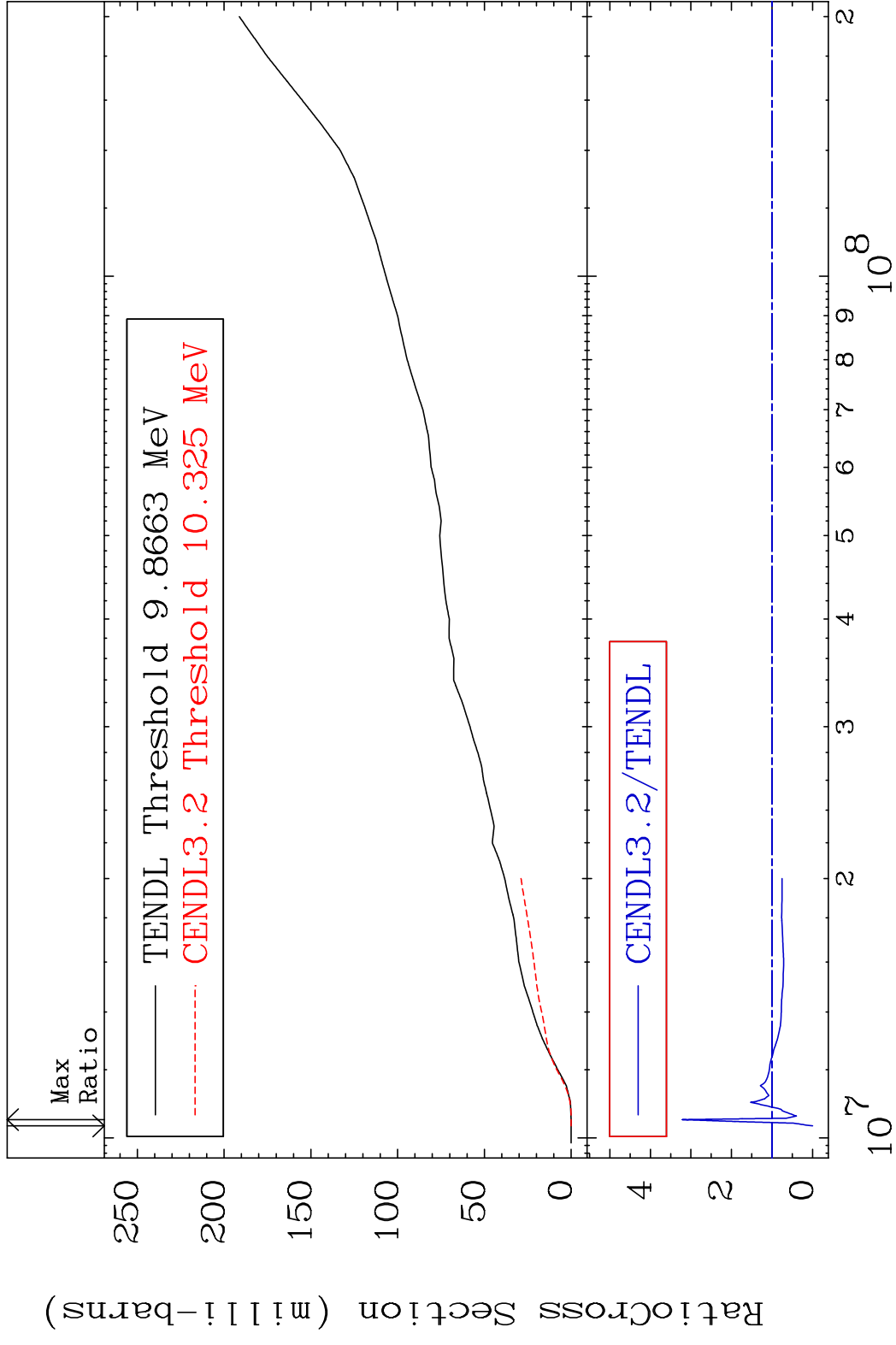
¹²Mg-24

MAT 1225 Hydrogen Production 12-Mg-24
 Cross Section -100.0 To 85.46 %



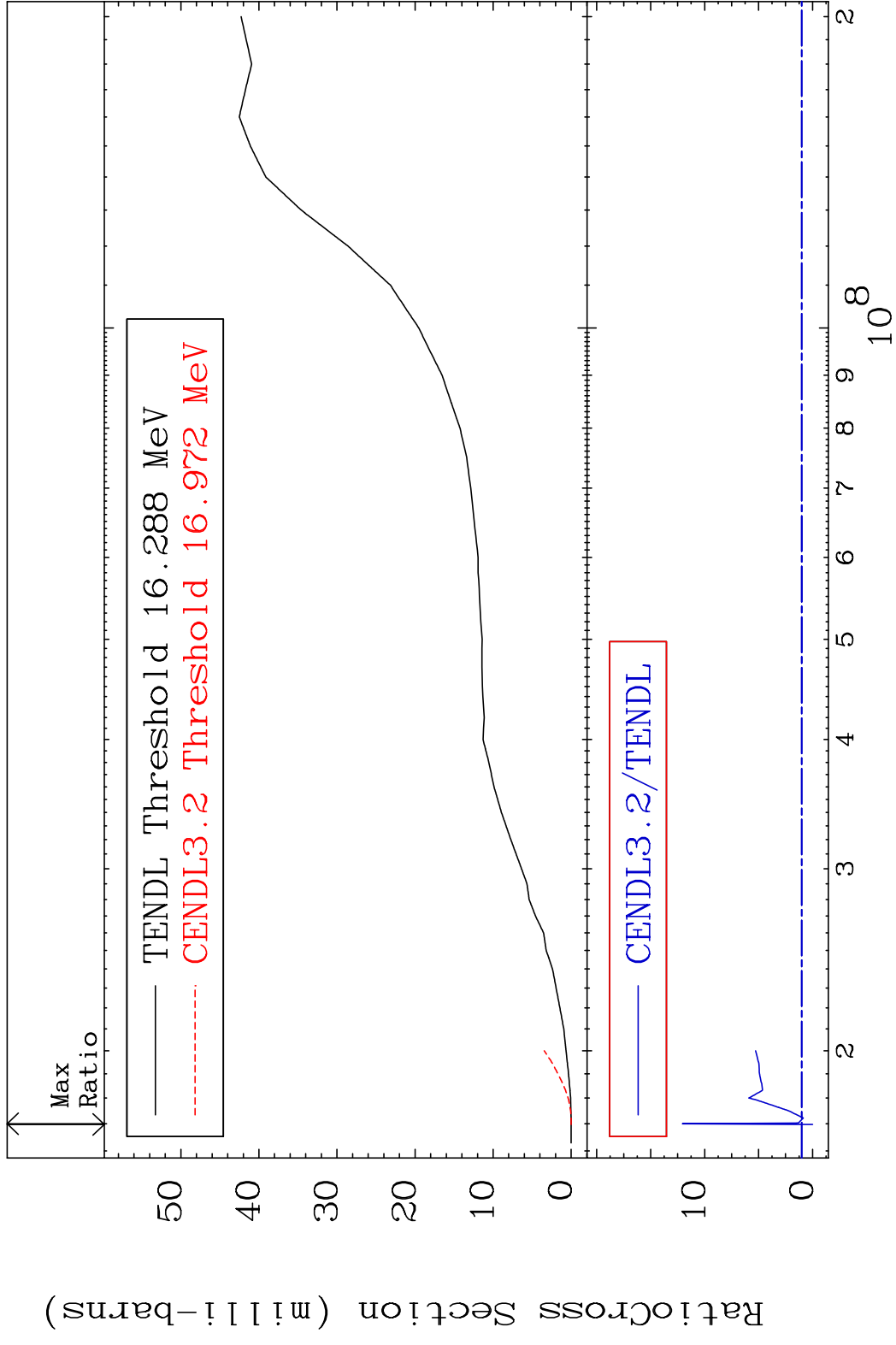
34 Incident Energy (eV) 12-Mg-24

MAT 1225 Deuterium Production 12-Mg-24
 Cross Section -100.0 To 221.1 %



35 12-Mg-24

MAT 1225 Tritium Production 12-Mg-24
 Cross Section -100.0 To 1106. %

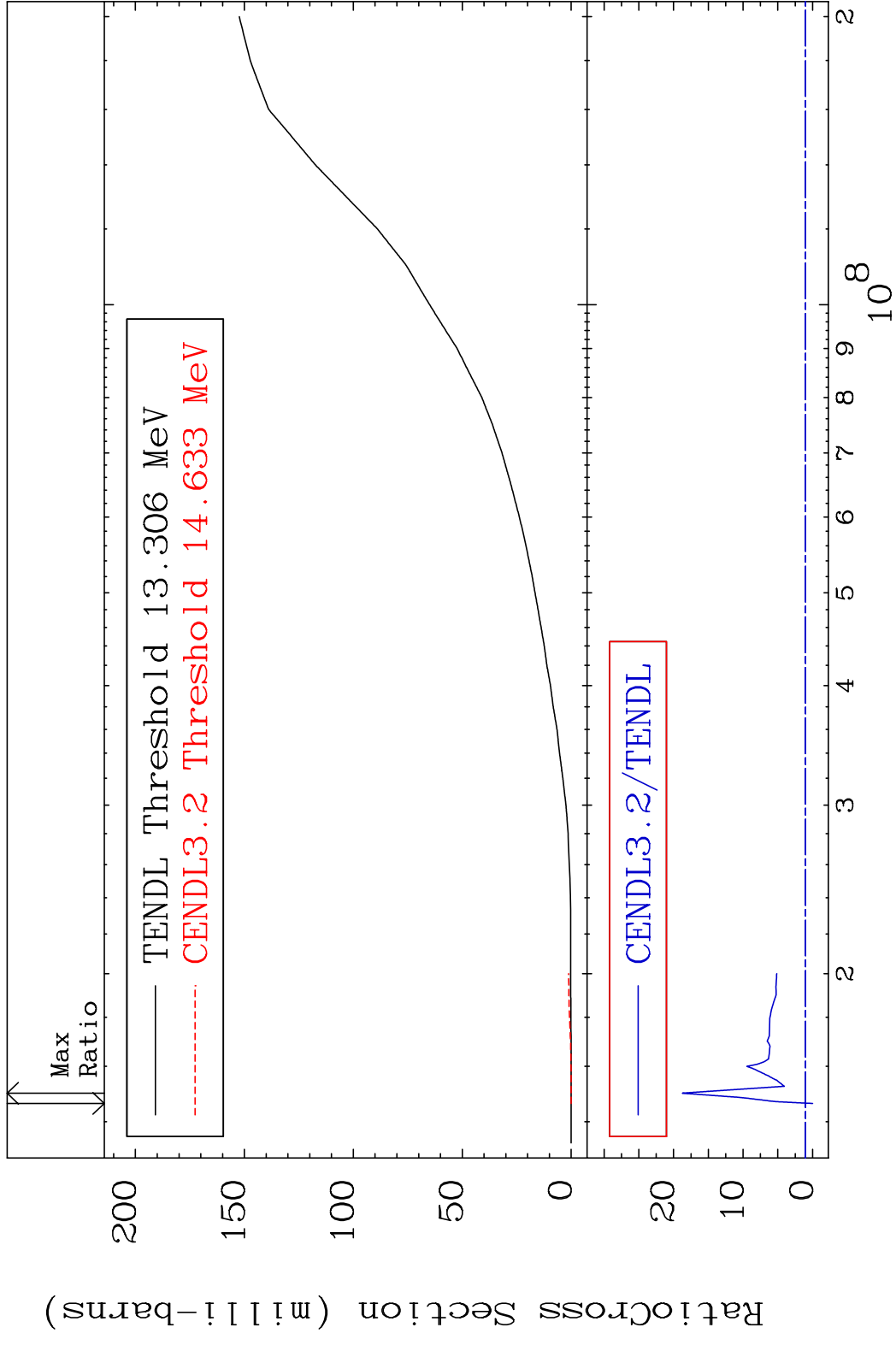


MAT 1225

He-3 Production

¹²Mg-24

Cross Section -100.0 To 1774. %



37

Incident Energy (eV)

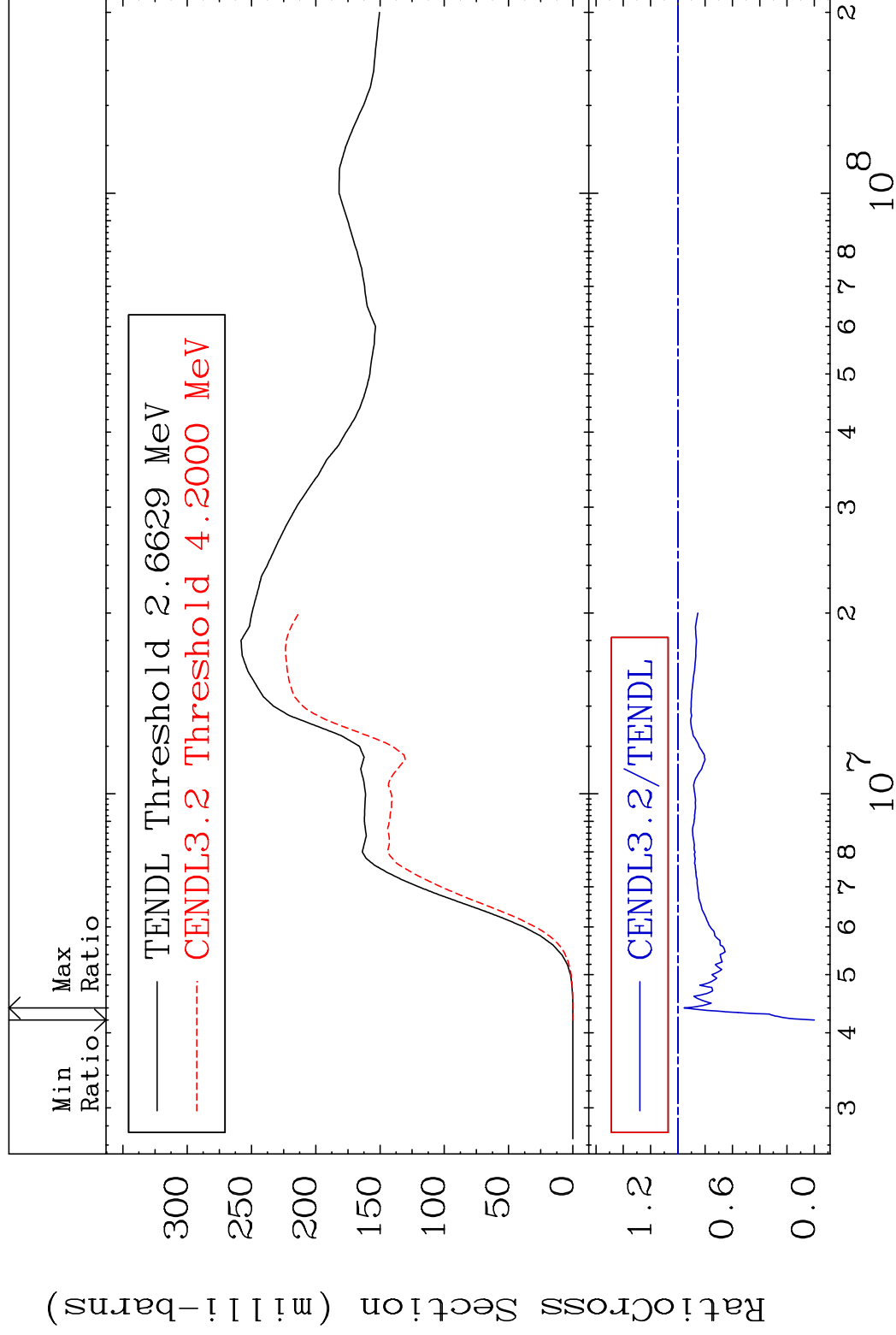
¹²Mg-24

MAT 1225

He-4 Production

¹²Mg-24

Cross Section -100.0 To -4.558%

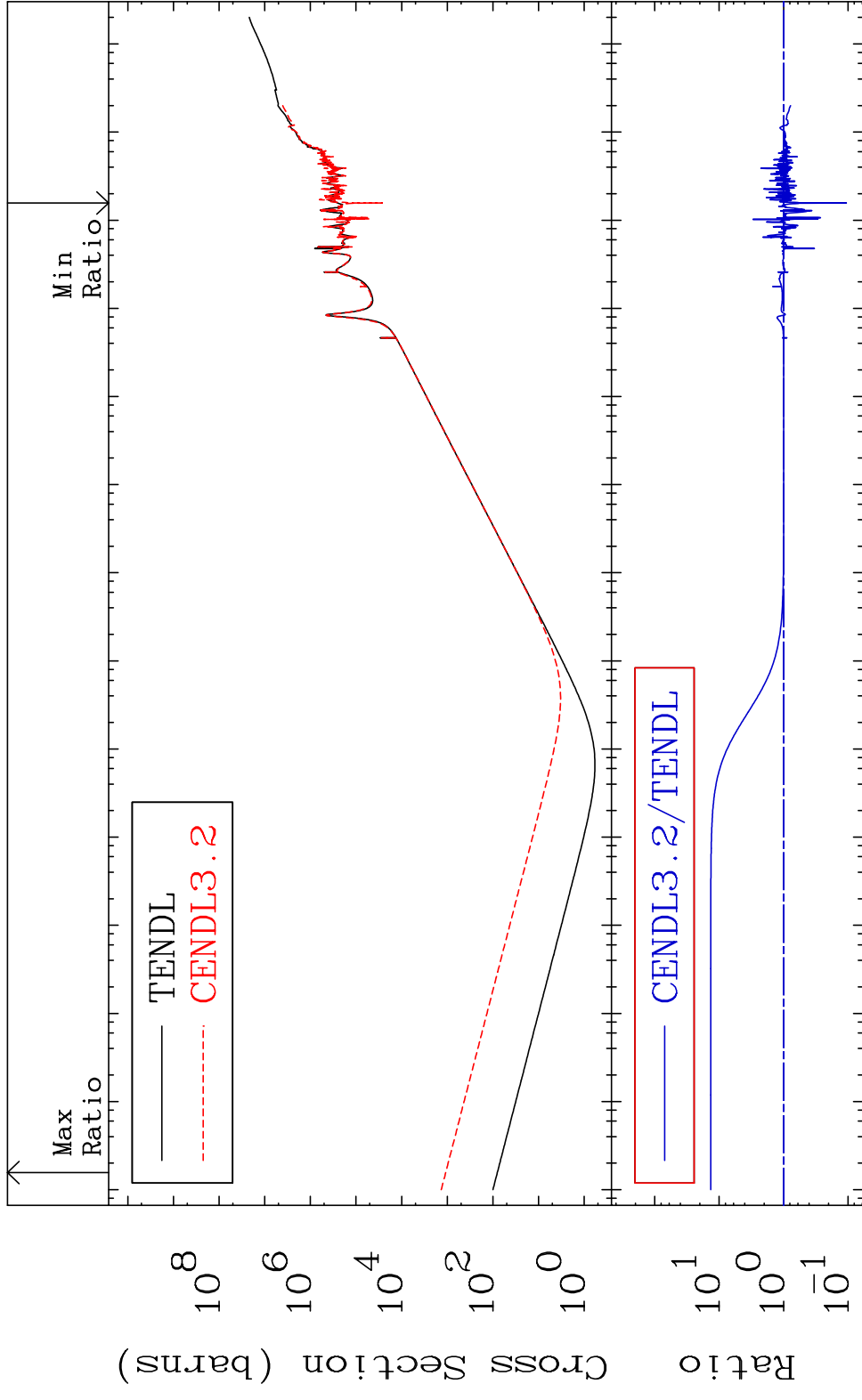


38

Incident Energy (eV)

¹²Mg-24

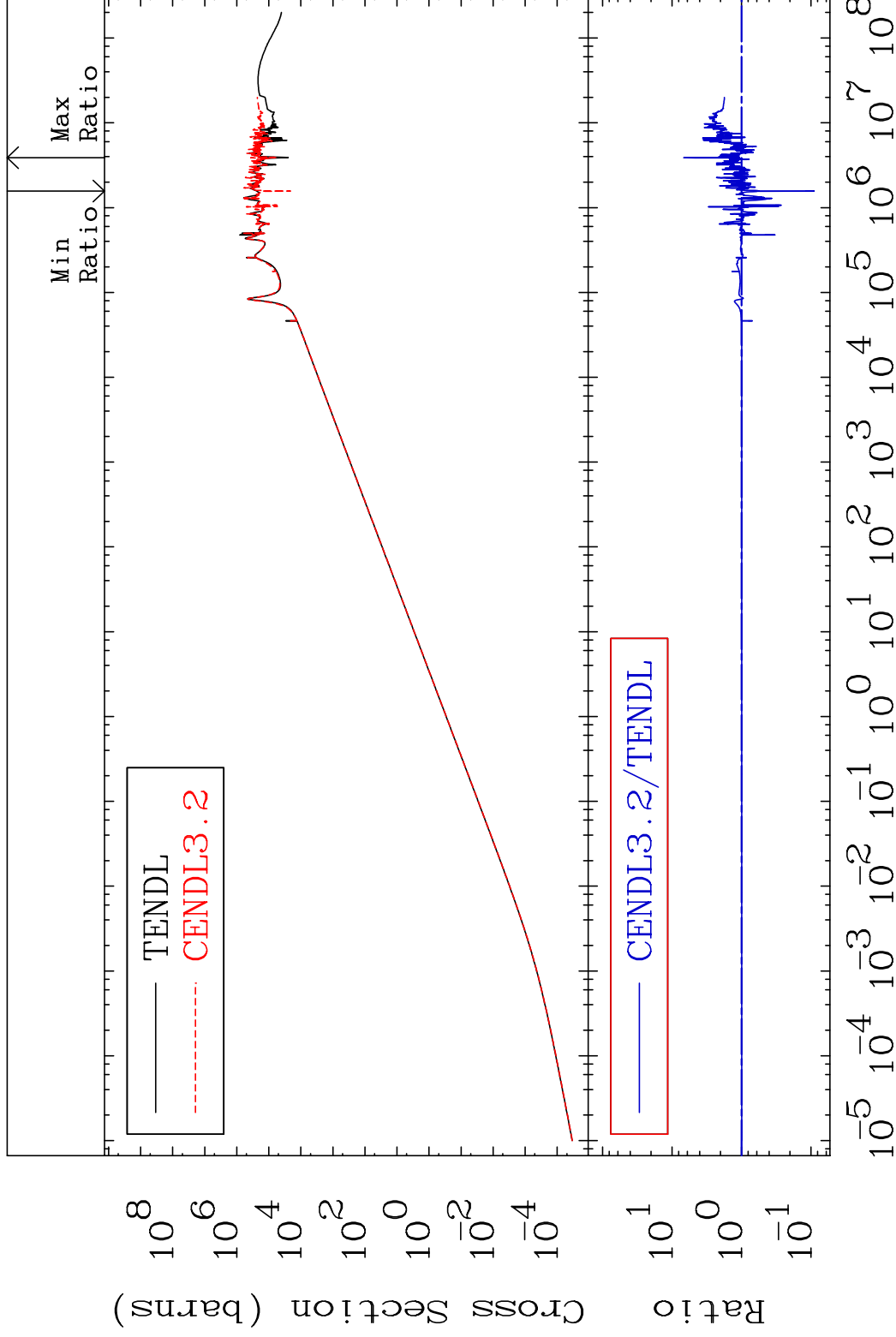
MAT 1225 Kerma total (eV-barns) 12-Mg-24
Cross Section -89.41 To 1254. %



MAT 1225

Kerma elastic
Cross Section

12-Mg-24
-91.01 To 578.9 %

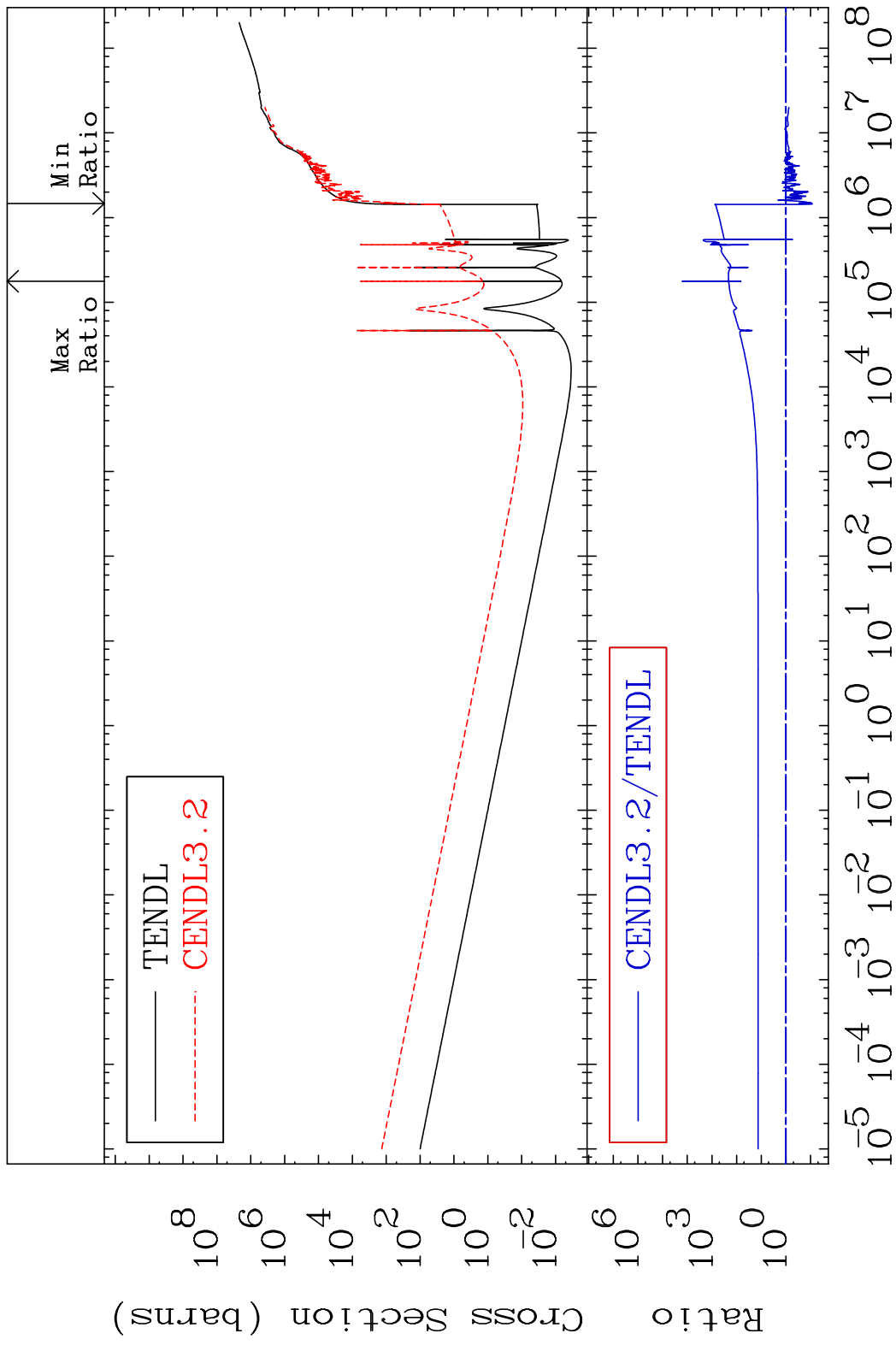


40

Incident Energy (eV)

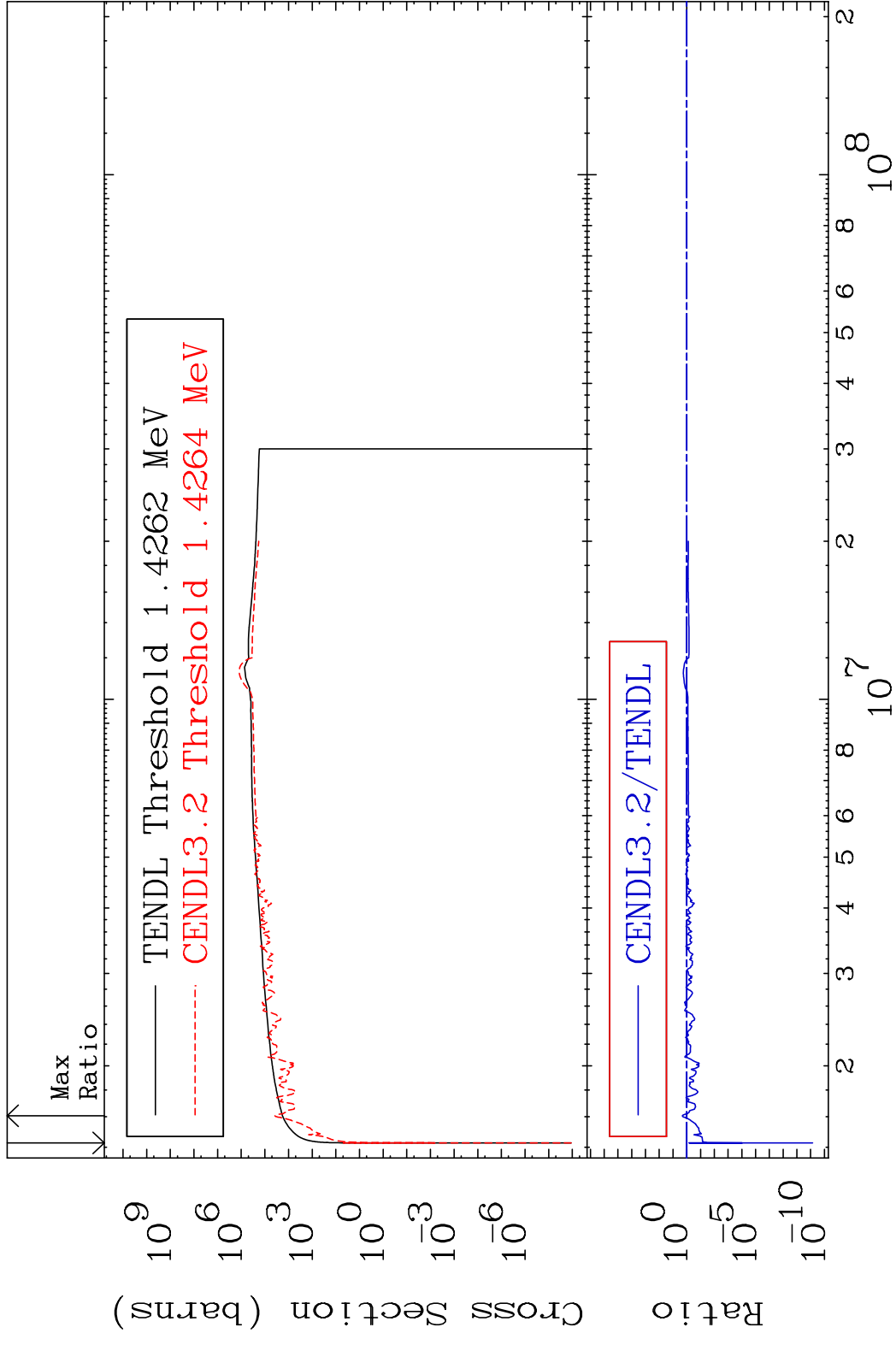
12-Mg-24

MAT 1225 Kerma non-elastic (all but mt2) 12-Mg-24
 Cross Section -91.67 To 9999. %

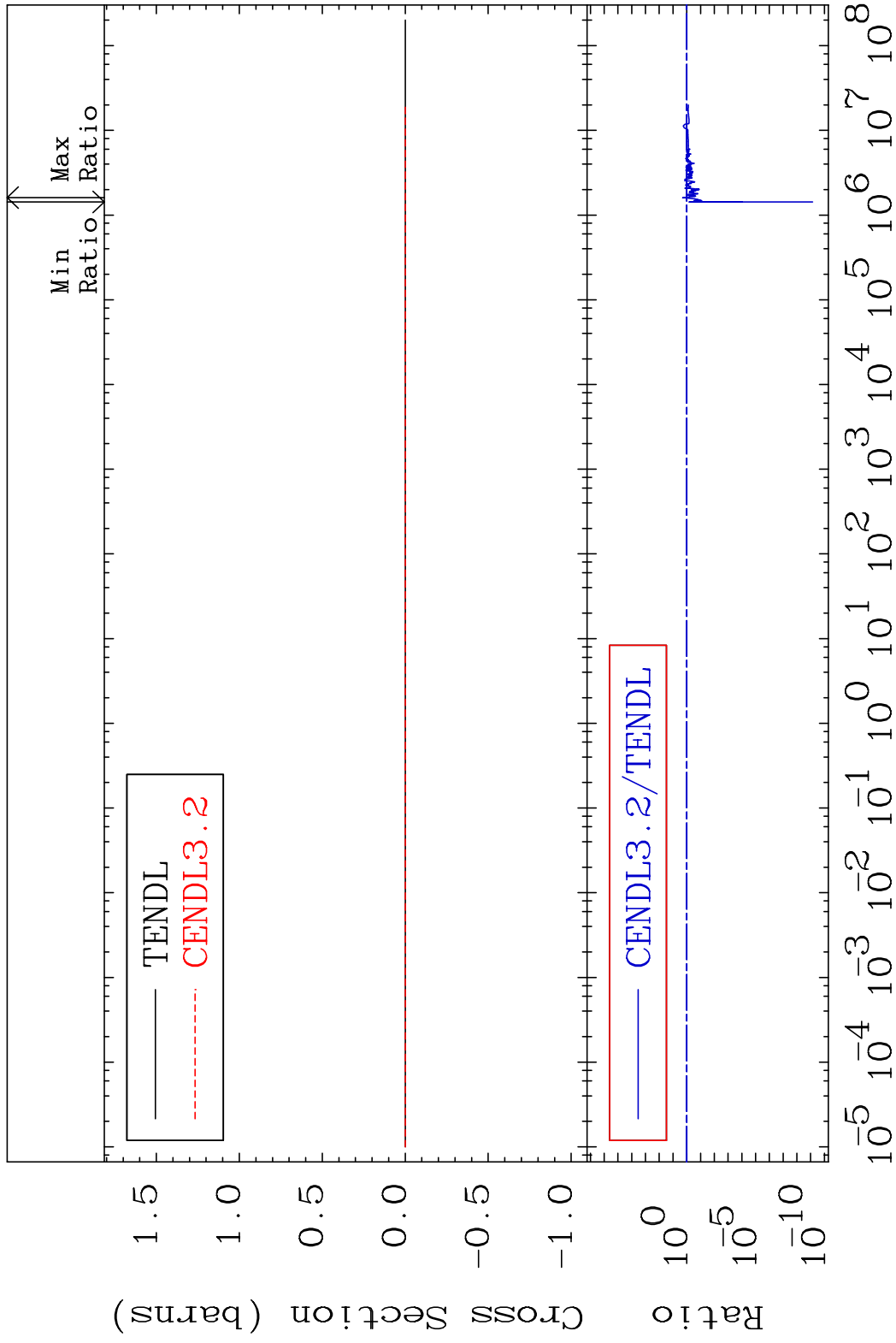


41 Incident Energy (eV) 12-Mg-24

MAT 1225 Kerma inelastic (mt51-91) 12-Mg-24
 Cross Section -100.0 To 109.3 %

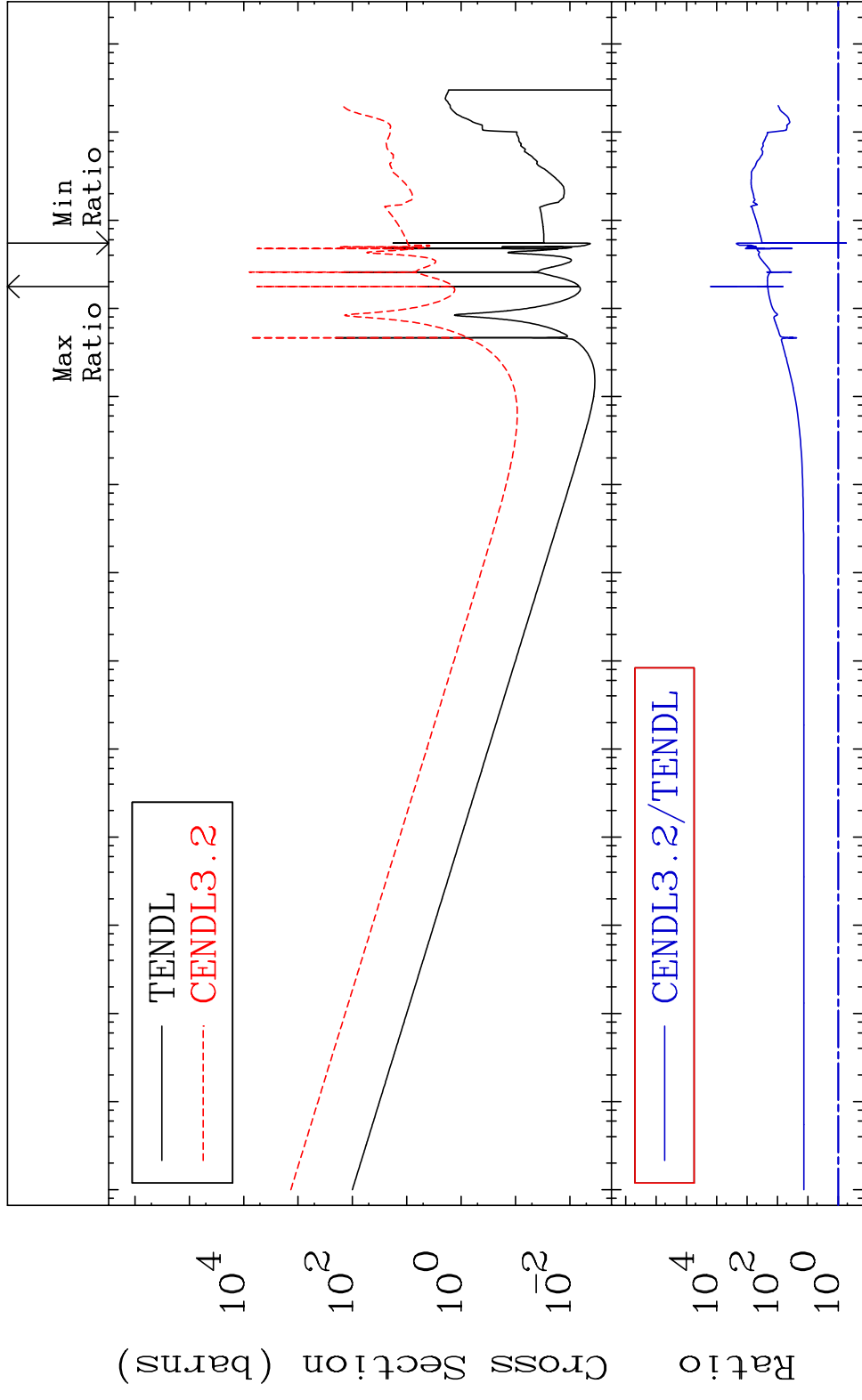


MAT 1225 Kerma fission (mt18 or mt19-20-21-38) 12-Mg-24
 Cross Section -100.0 To 109.3 %



MAT 1225

Kerma capture (mt102) 12-Mg-24
Cross Section -45.98 To 9999. %



44

Incident Energy (eV)

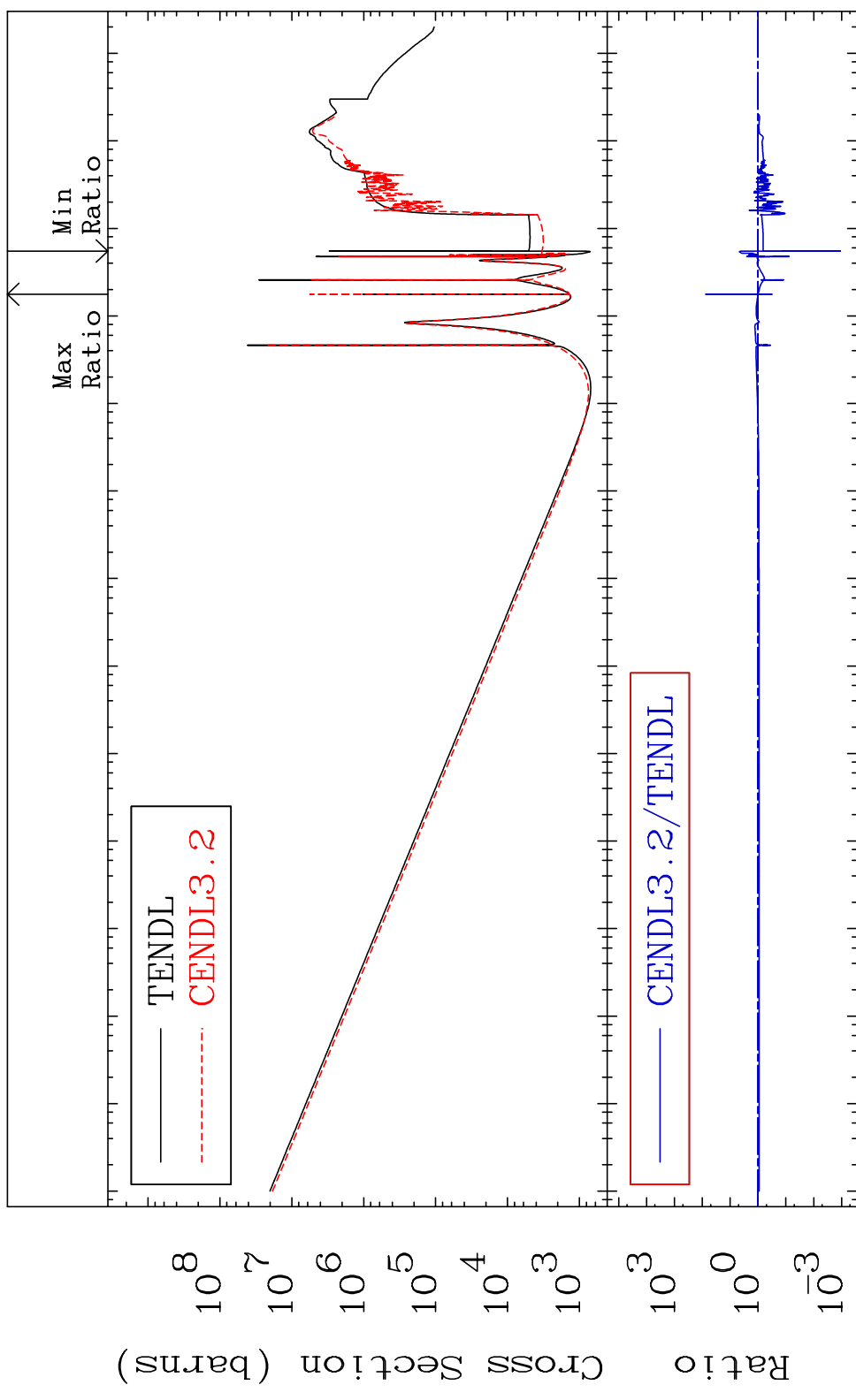
12-Mg-24

MAT 1225

Total photon (eV-barns)

12-Mg-24

Cross Section -99.89 To 7400. %

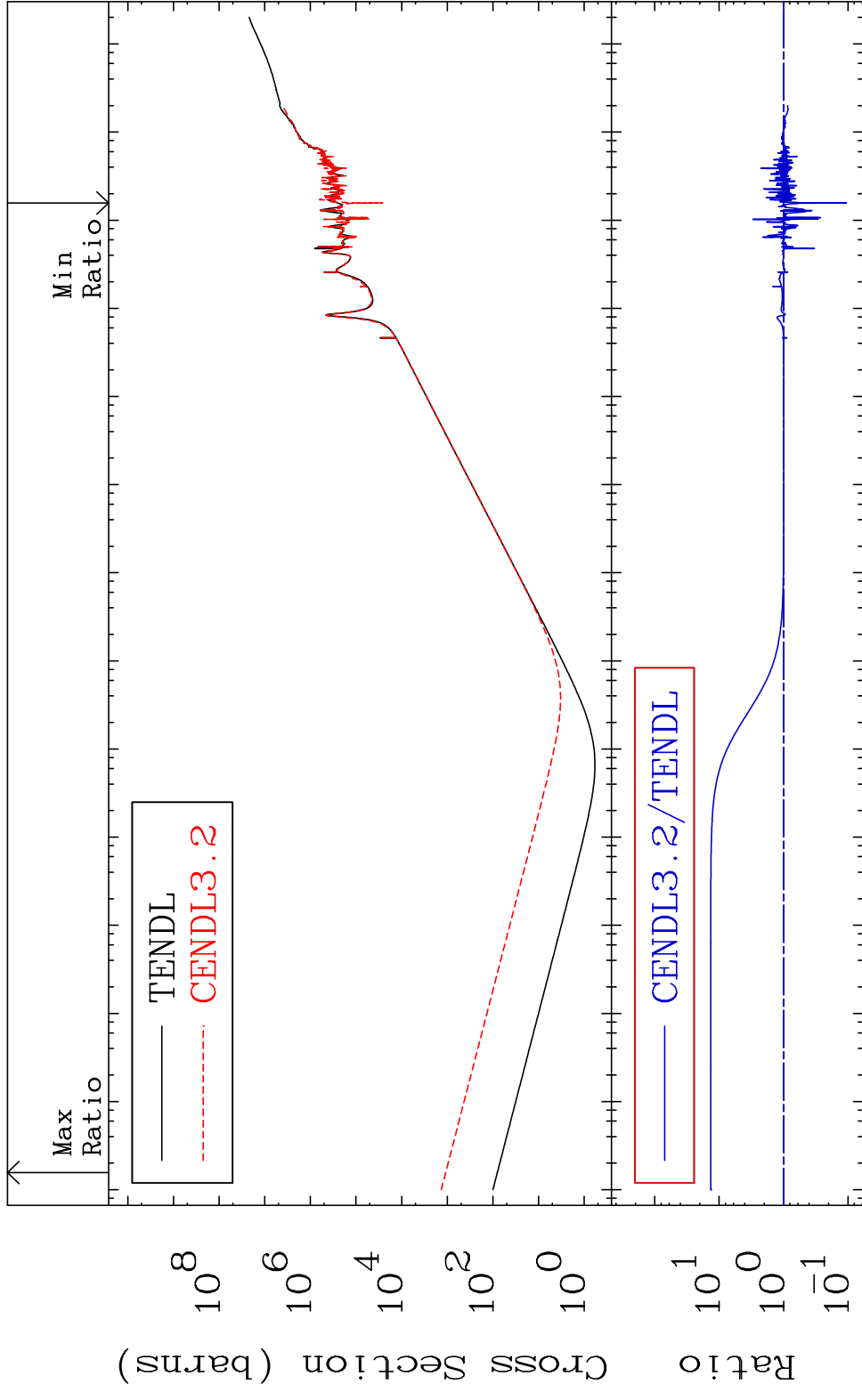


45

Incident Energy (eV)

12-Mg-24

MAT 1225 Total kinematic kerma (high limit) 12-Mg-24
 Cross Section -89.41 To 1254. %

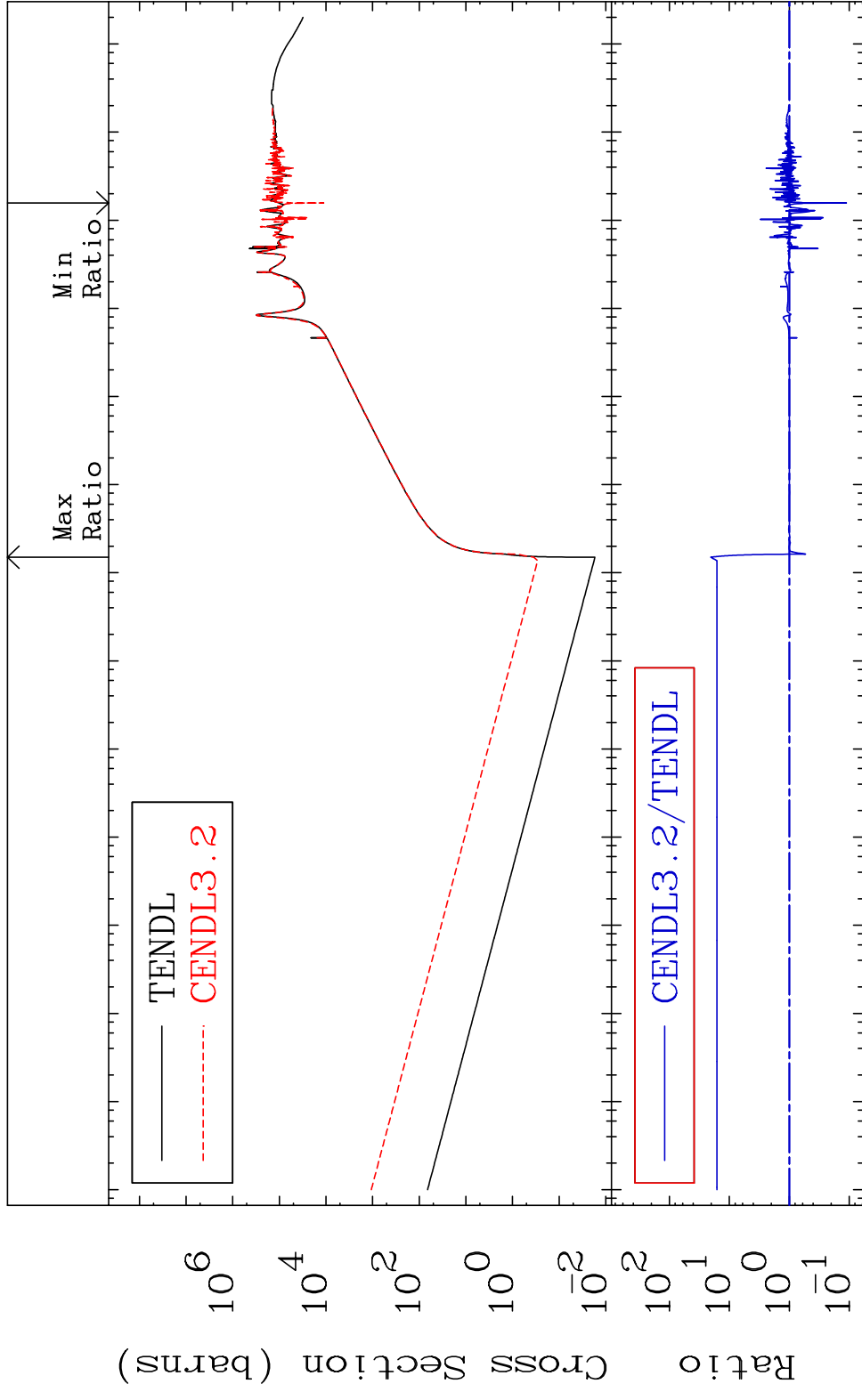


MAT 1225

Dpa total (eV-barns)

¹²Mg-24

Cross Section -88.83 To 1945. %

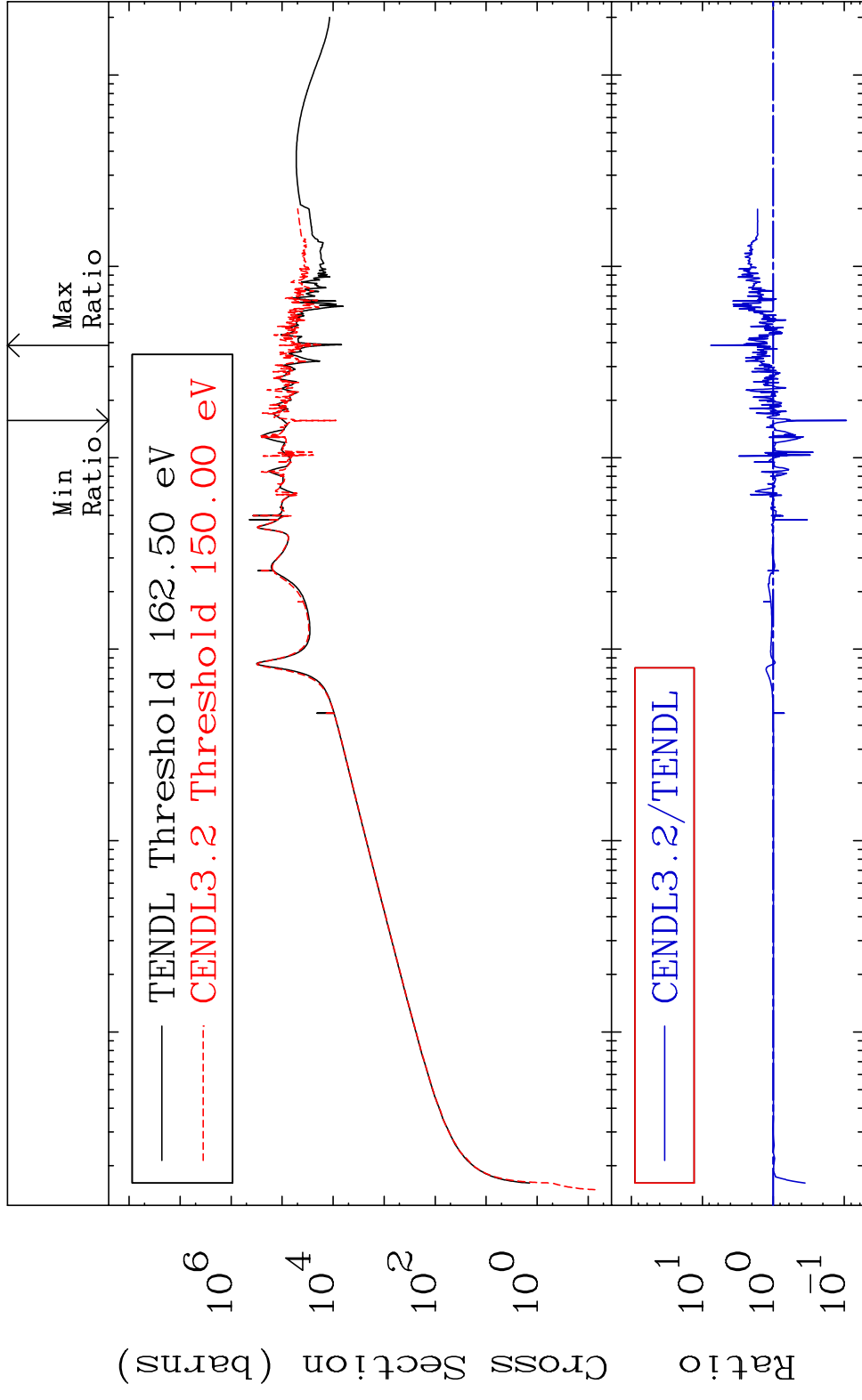


47

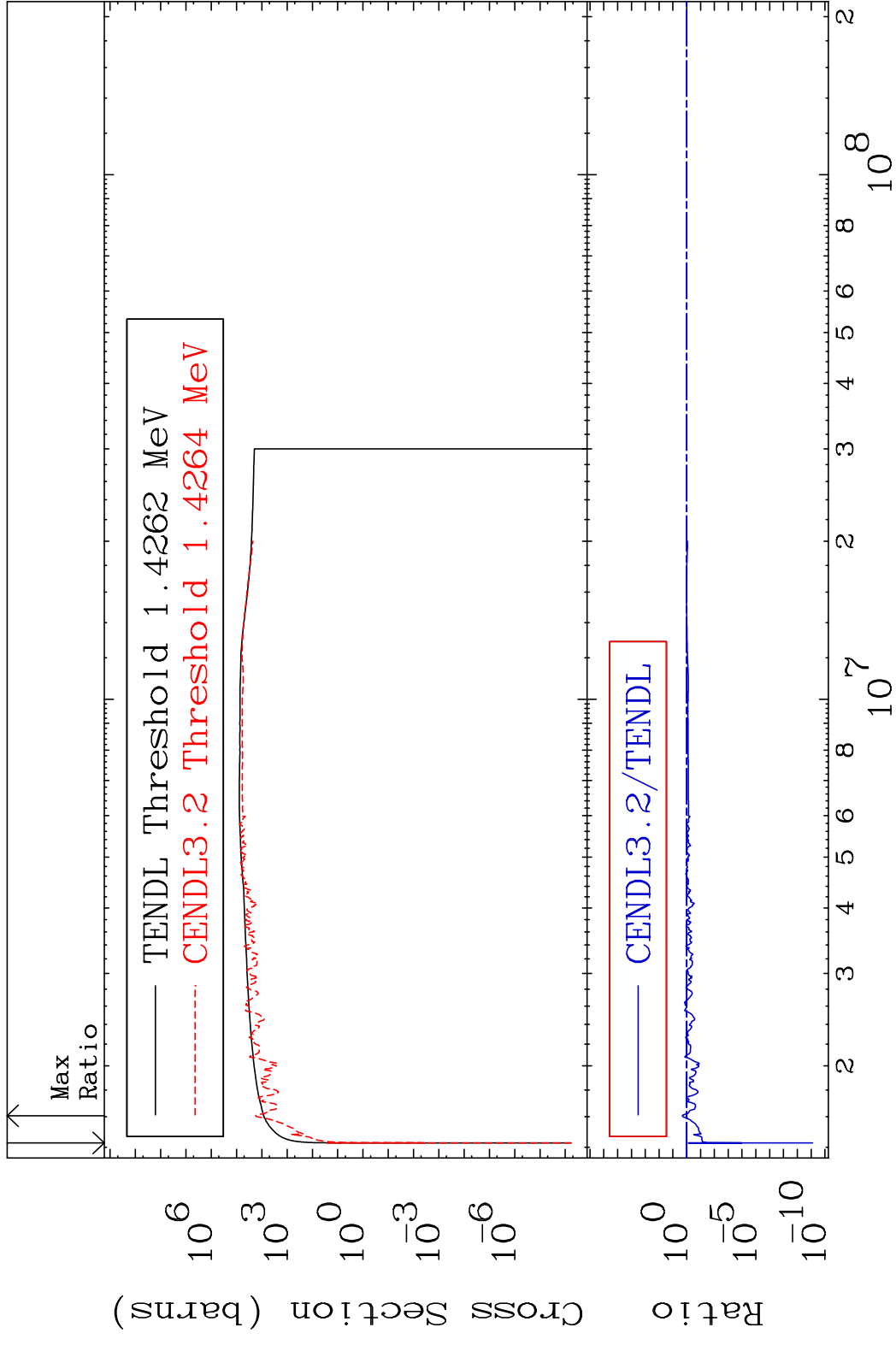
Incident Energy (eV)

¹²Mg-24

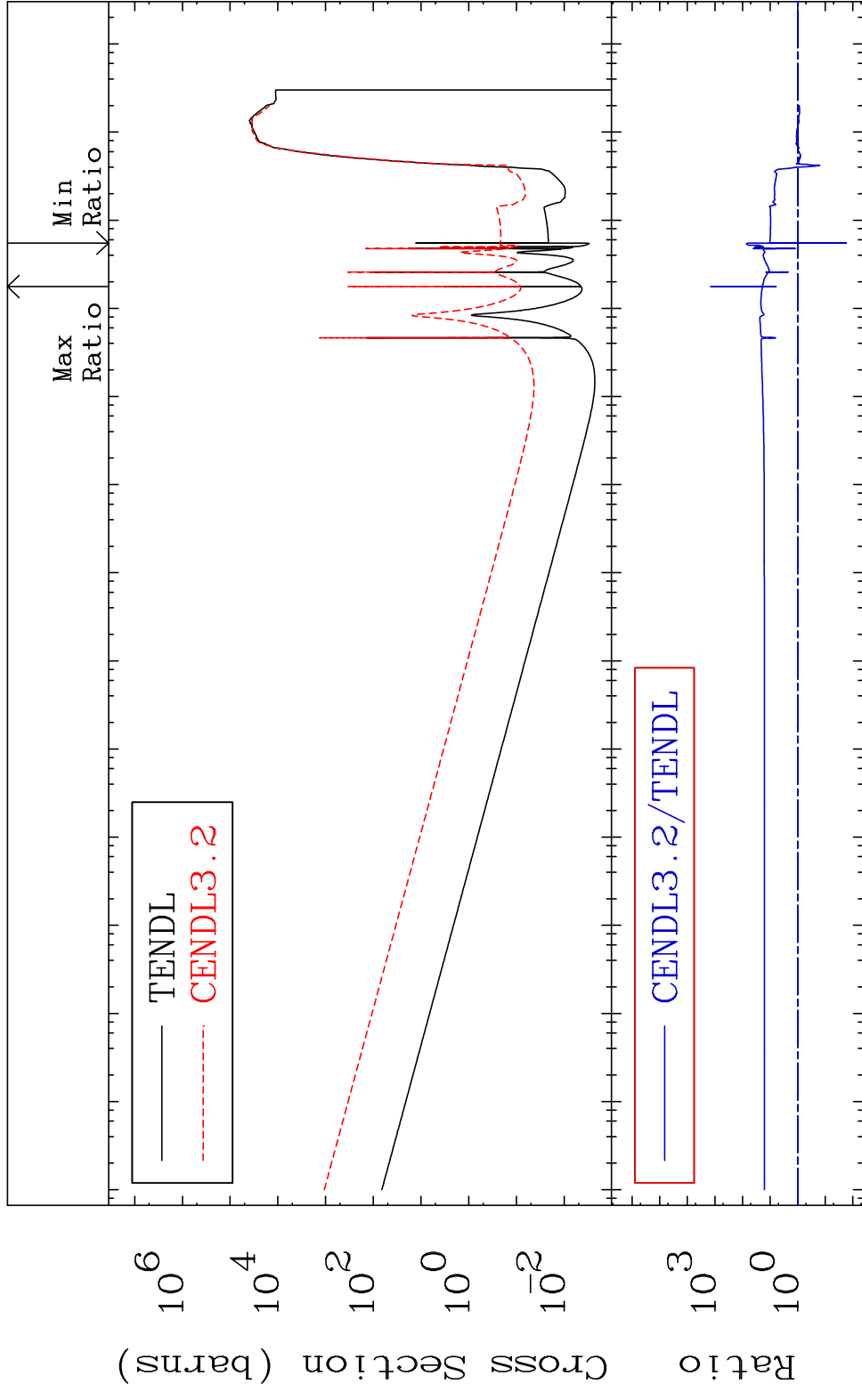
MAT 1225 Dpa elastic (mt2) 12-Mg-24
 Cross Section -90.68 To 661.6 %



MAT 1225 Dpa inelastic (mt51-91) 12-Mg-24
 Cross Section -100.0 To 107.4 %



MAT 1225 Dpa disappearance (mt102 -120) 12-Mg-24
 Cross Section -98.29 To 9999. %



50 Incident Energy (eV) 12-Mg-24