

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

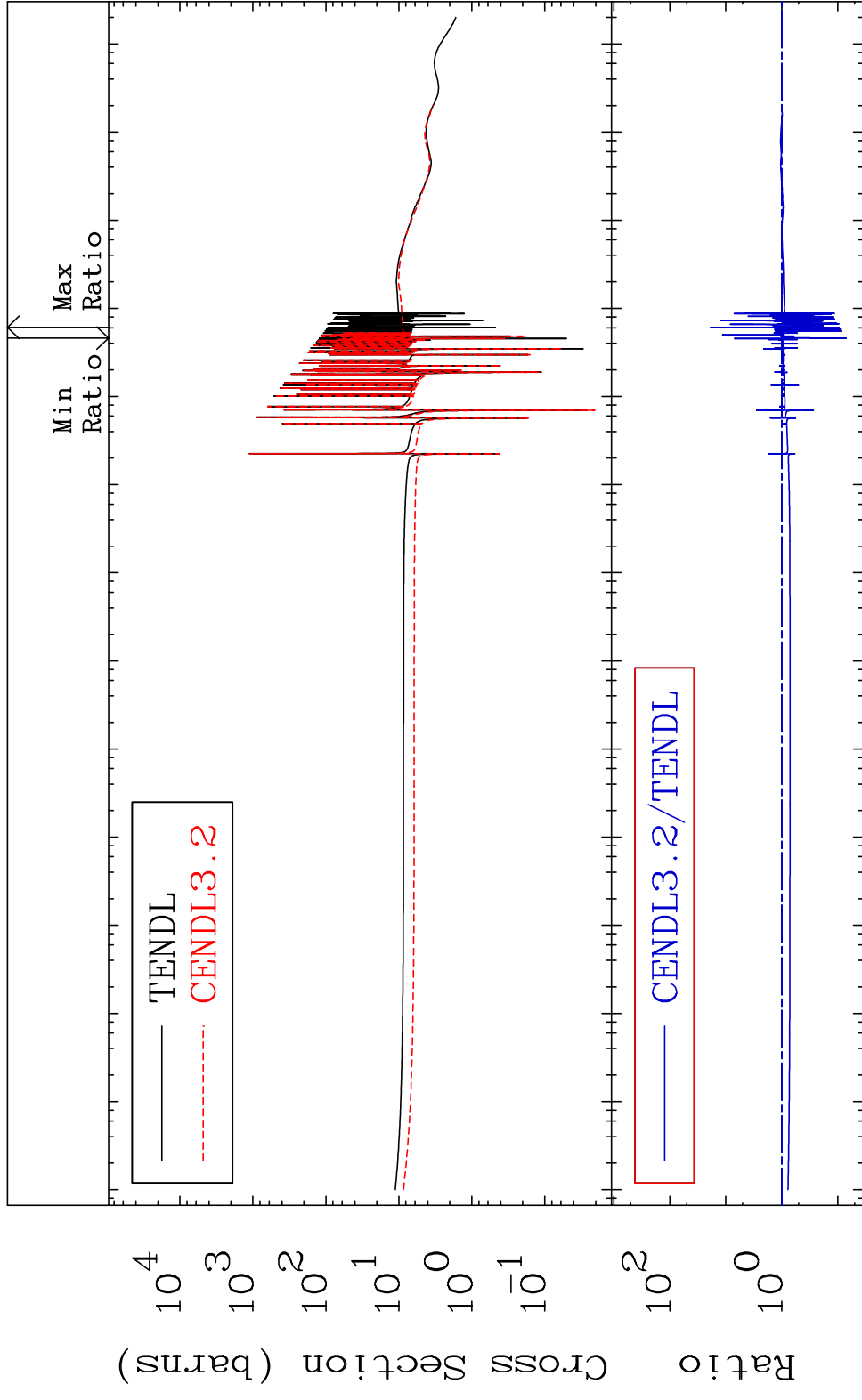
MAT 4037

Total

40-Zr-94

Cross Section

-92.95 To 1762. %



1

Incident Energy (eV)

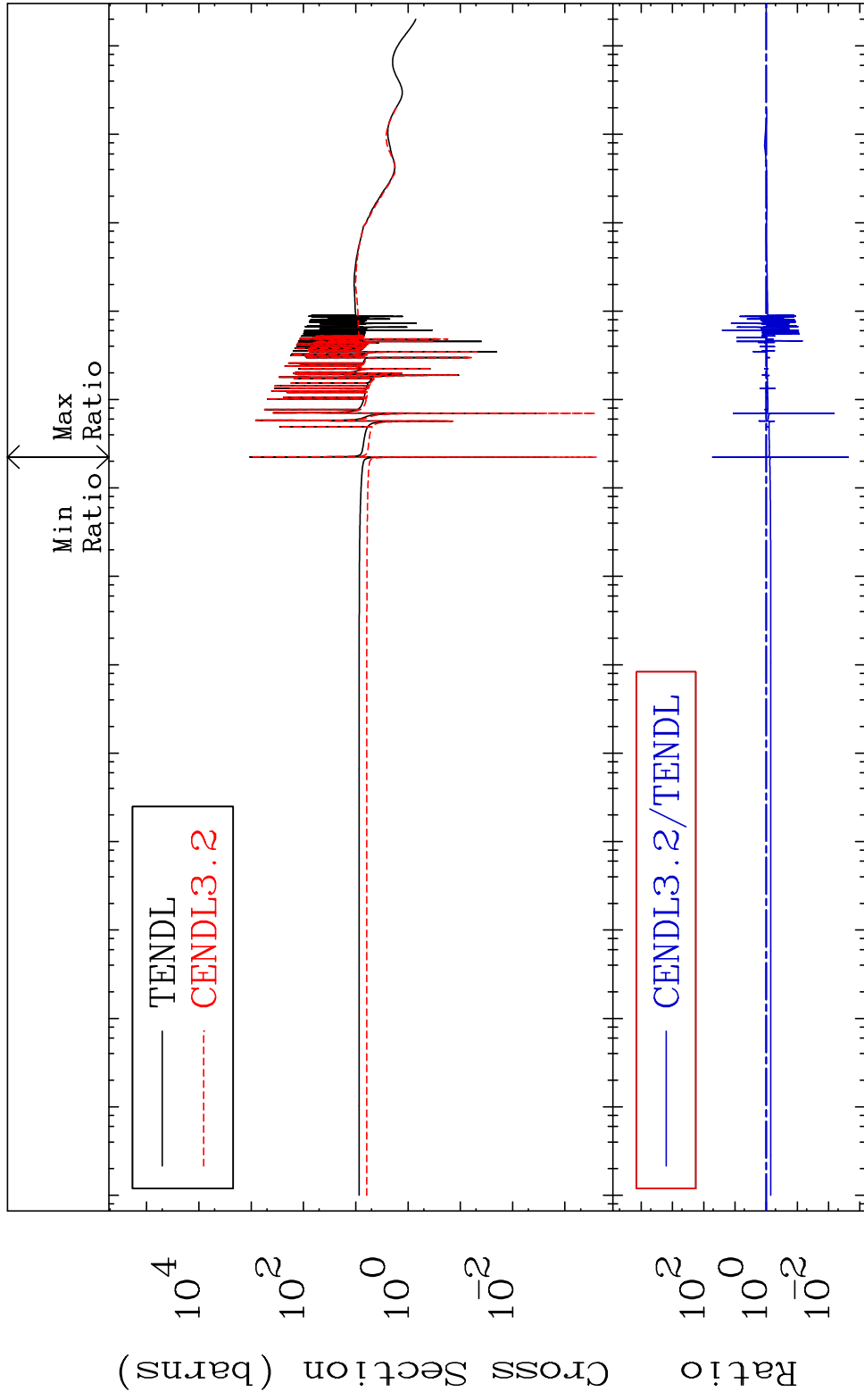
40-Zr-94

MAT 4037

Elastic

40-Zr-94

Cross Section -99.77 To 5191. %



2

Incident Energy (eV)

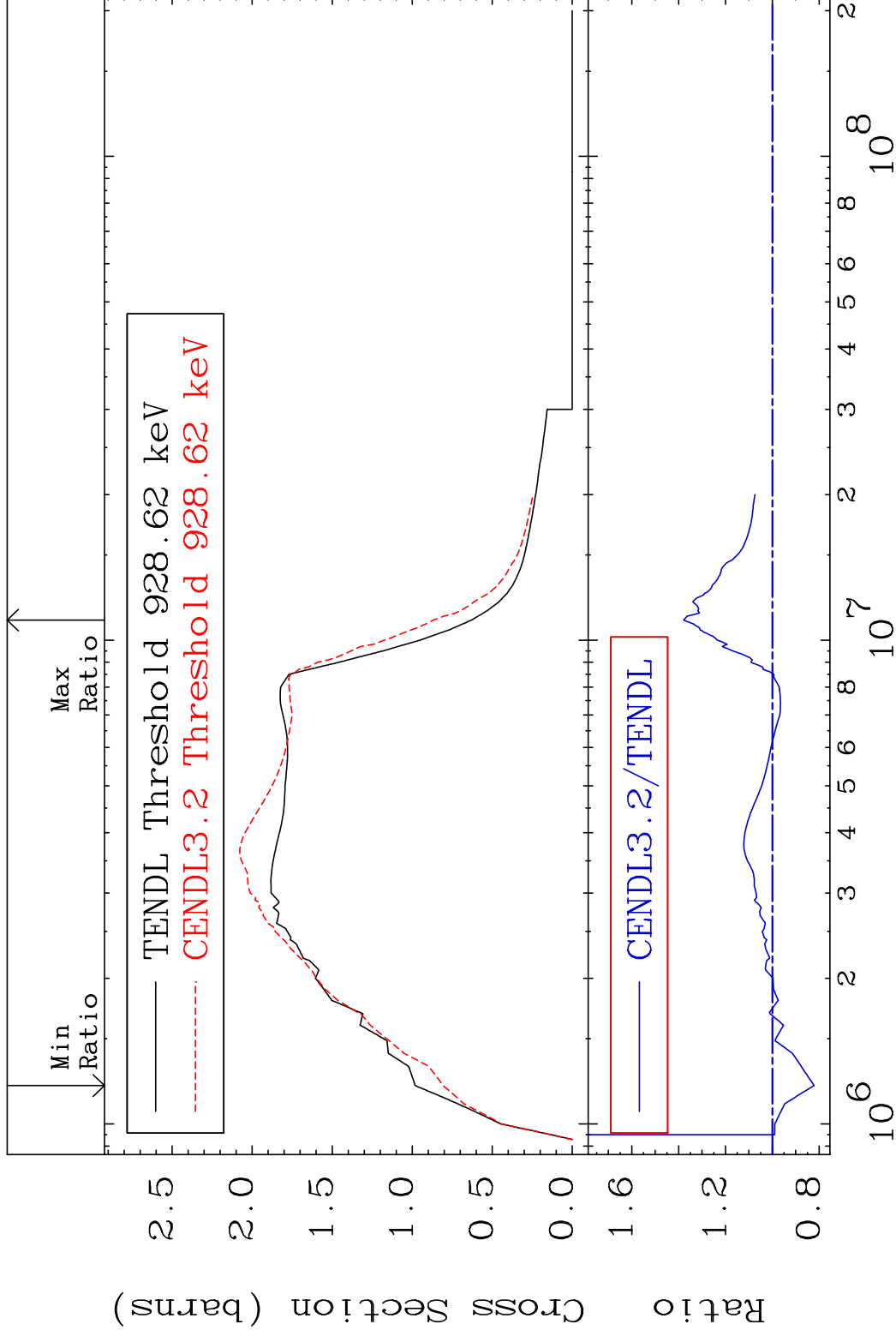
40-Zr-94

MAT 4037

Inelastic

40-Zr-94

Cross Section -17.84 To 37.86 %



3

Incident Energy (eV)

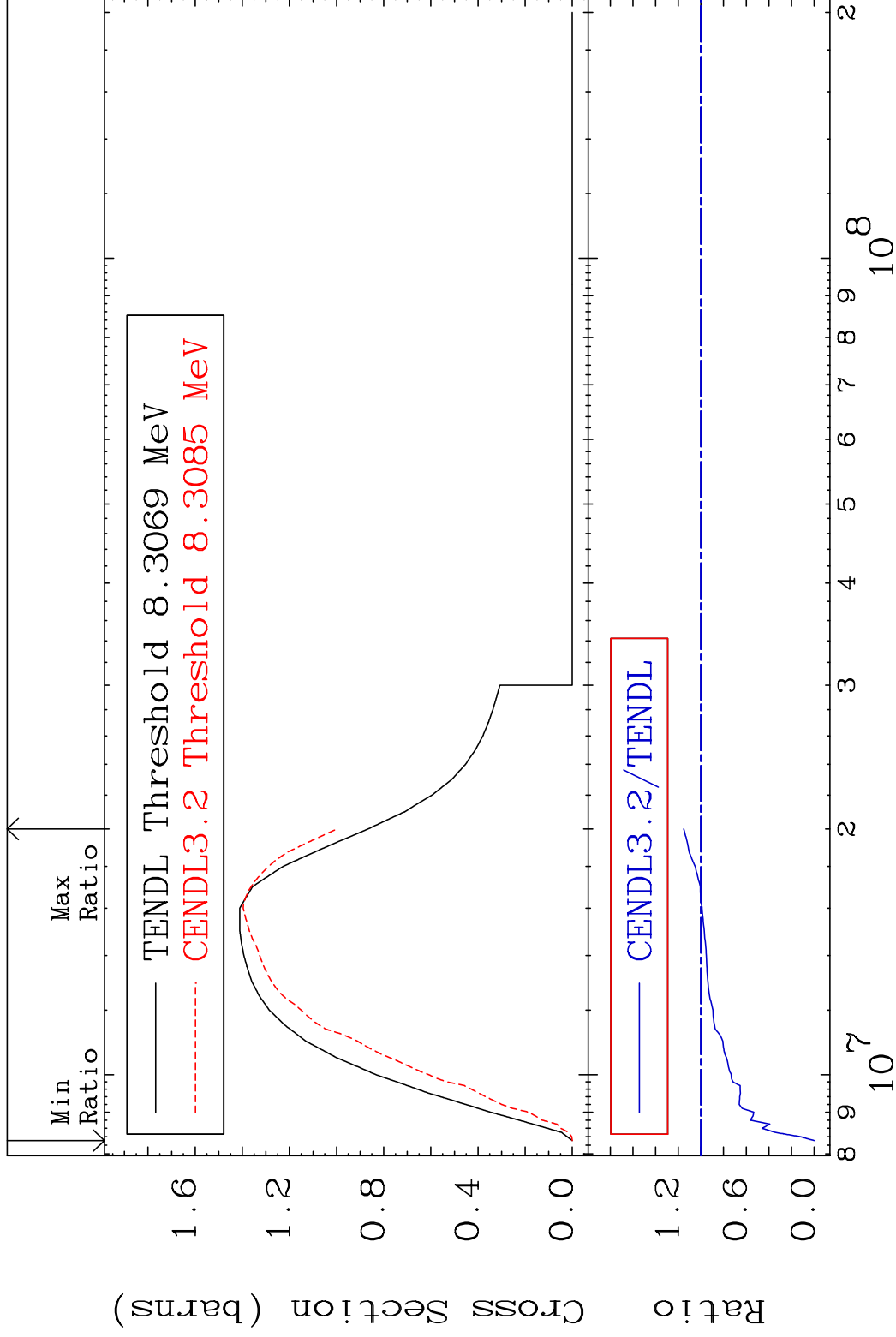
40-Zr-94

MAT 4037

(n,2n)

40-Zr-94

Cross Section -100.0 To 15.24 %



4

Incident Energy (eV)

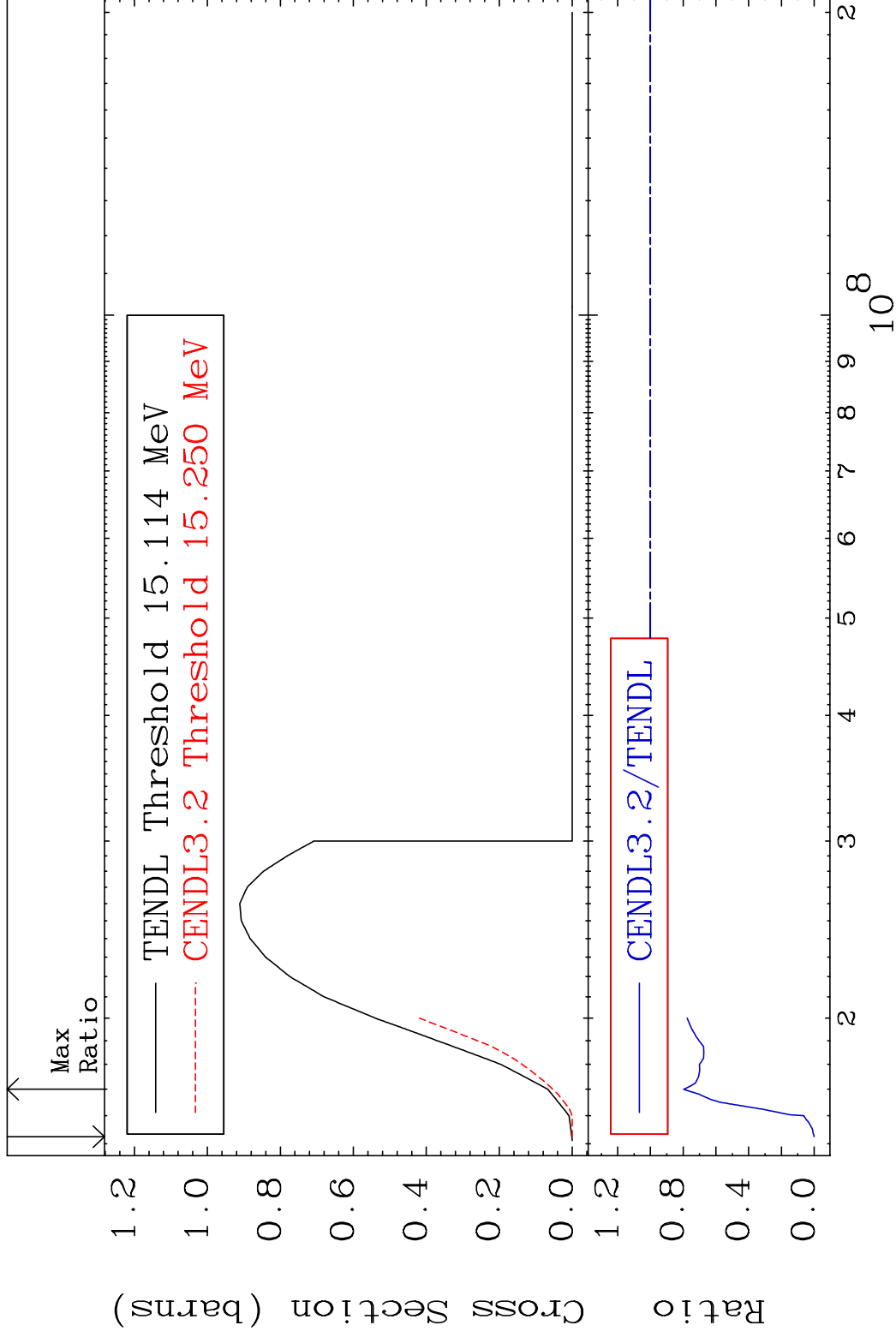
40-Zr-94

MAT 4037

(n,3n)

40-Zr-94

Cross Section -100.0 To -20.30%



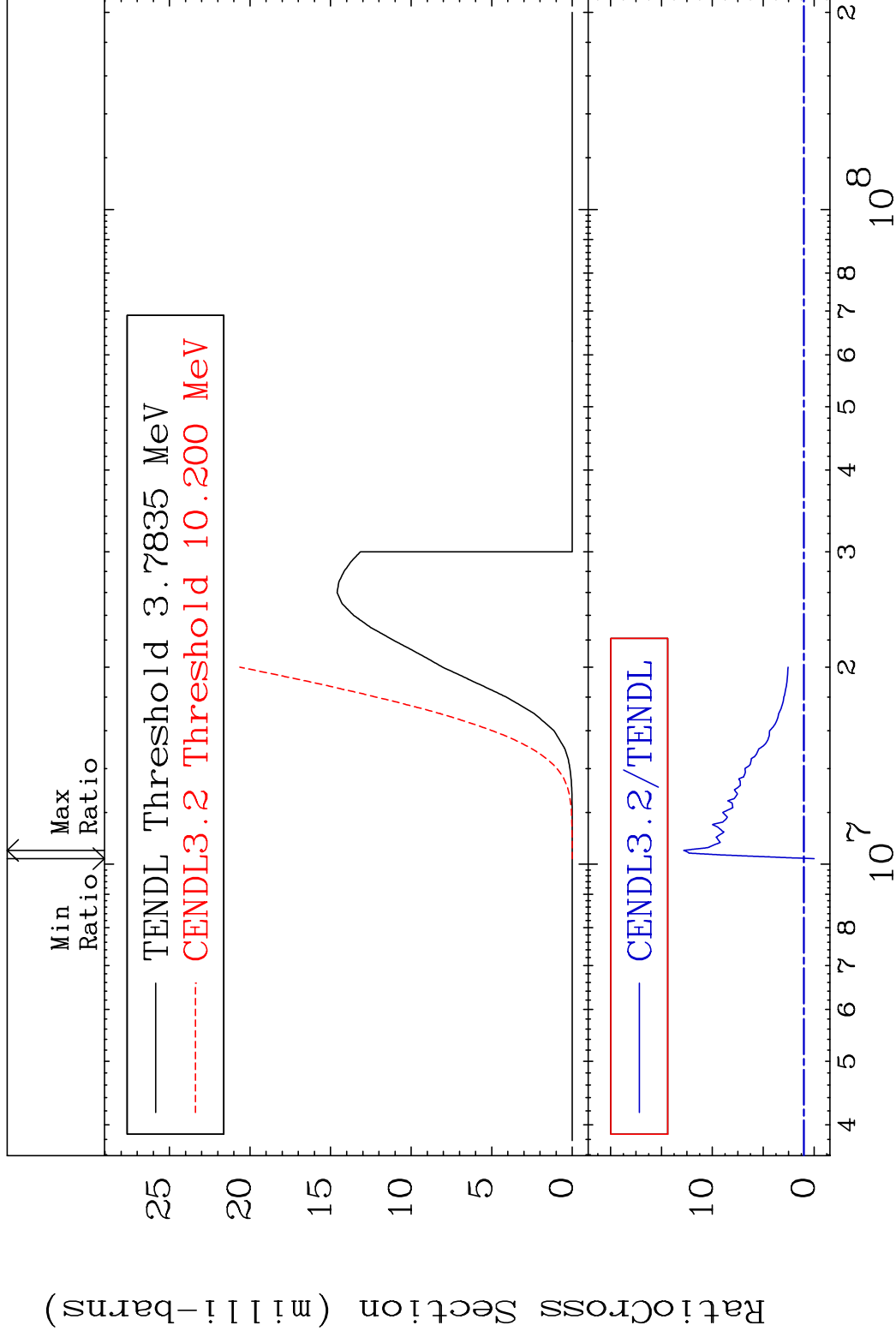
5

Incident Energy (eV)

40-Zr-94

MAT 4037

(n, n') α 40-Zr-94
Cross Section -100.0 To 1182. %



6

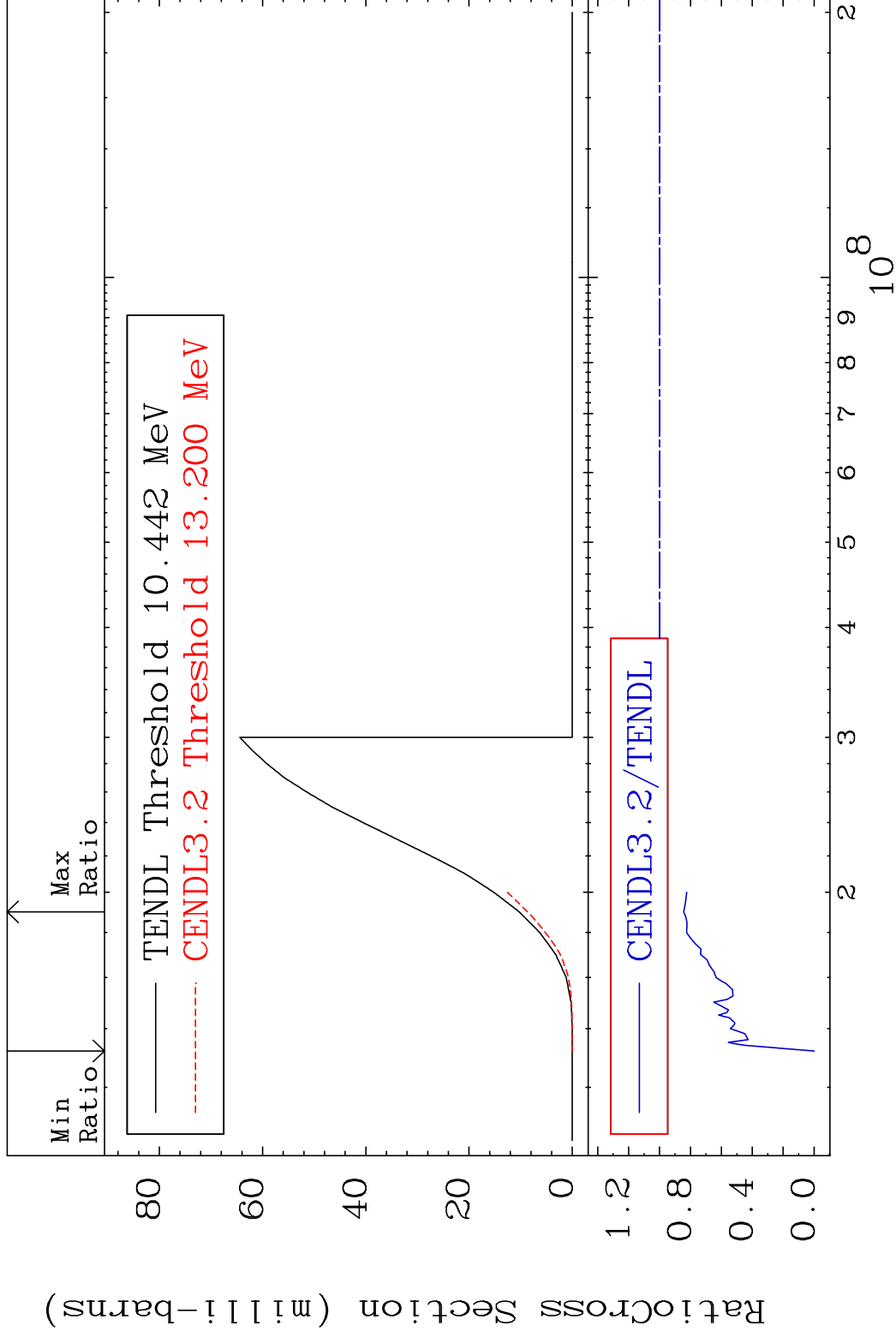
Incident Energy (eV) 40-Zr-94

MAT 4037

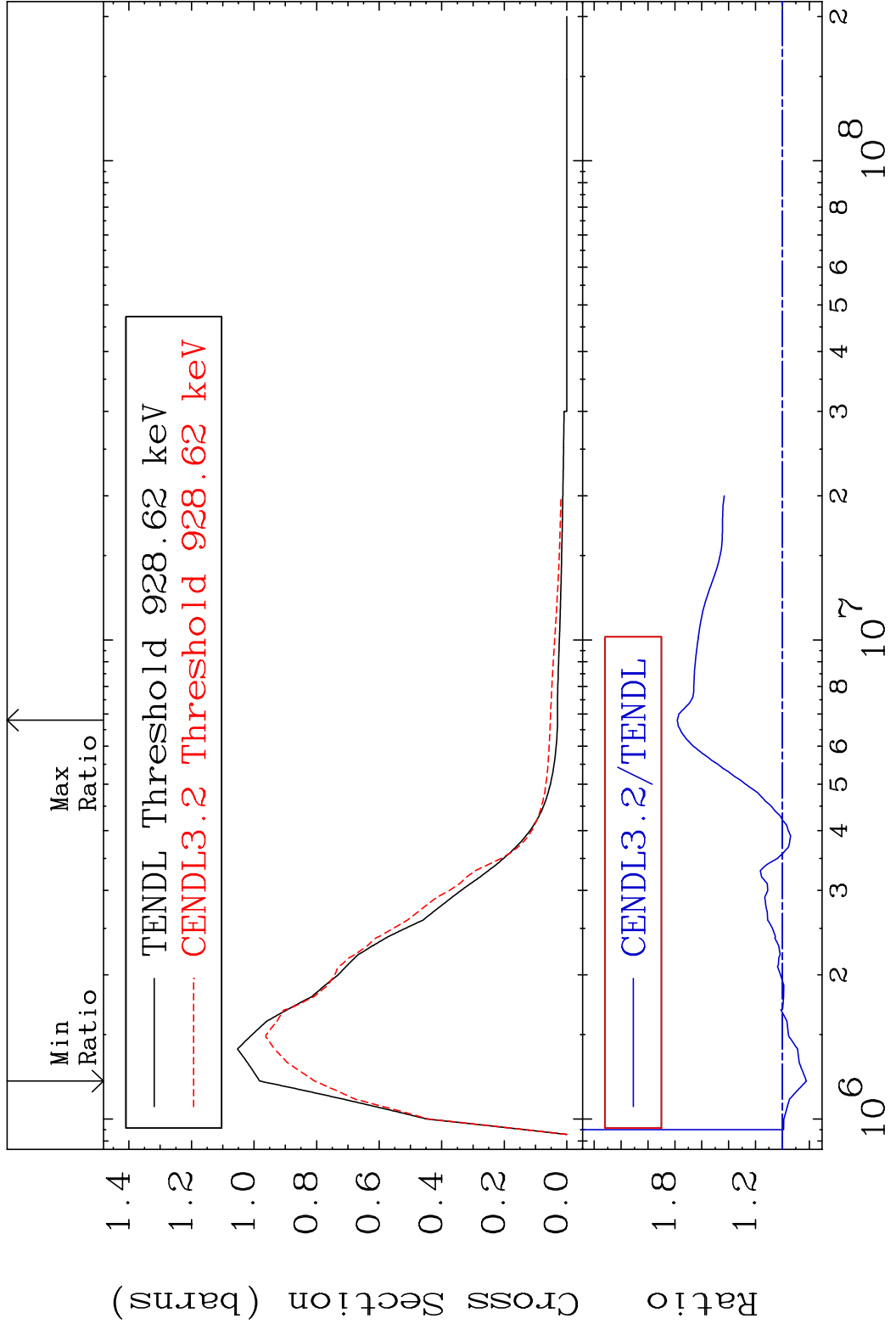
(n, n') p

40-Zr-94

Cross Section -100.0 To -15.60%

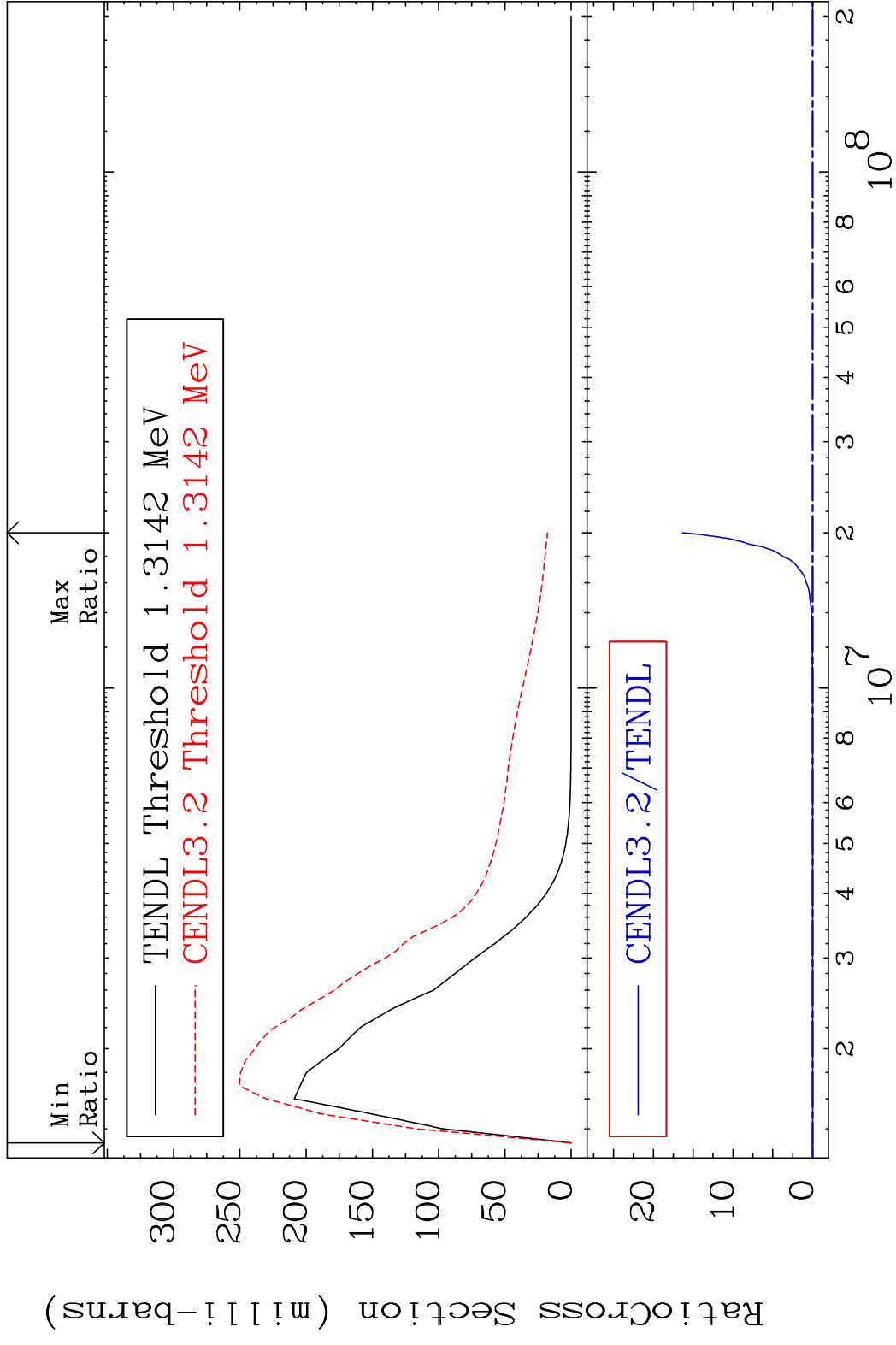


MAT 4037 MT= 51 (n, n') Level 40-Zr-94
 Cross Section -17.84 To 78.27 %

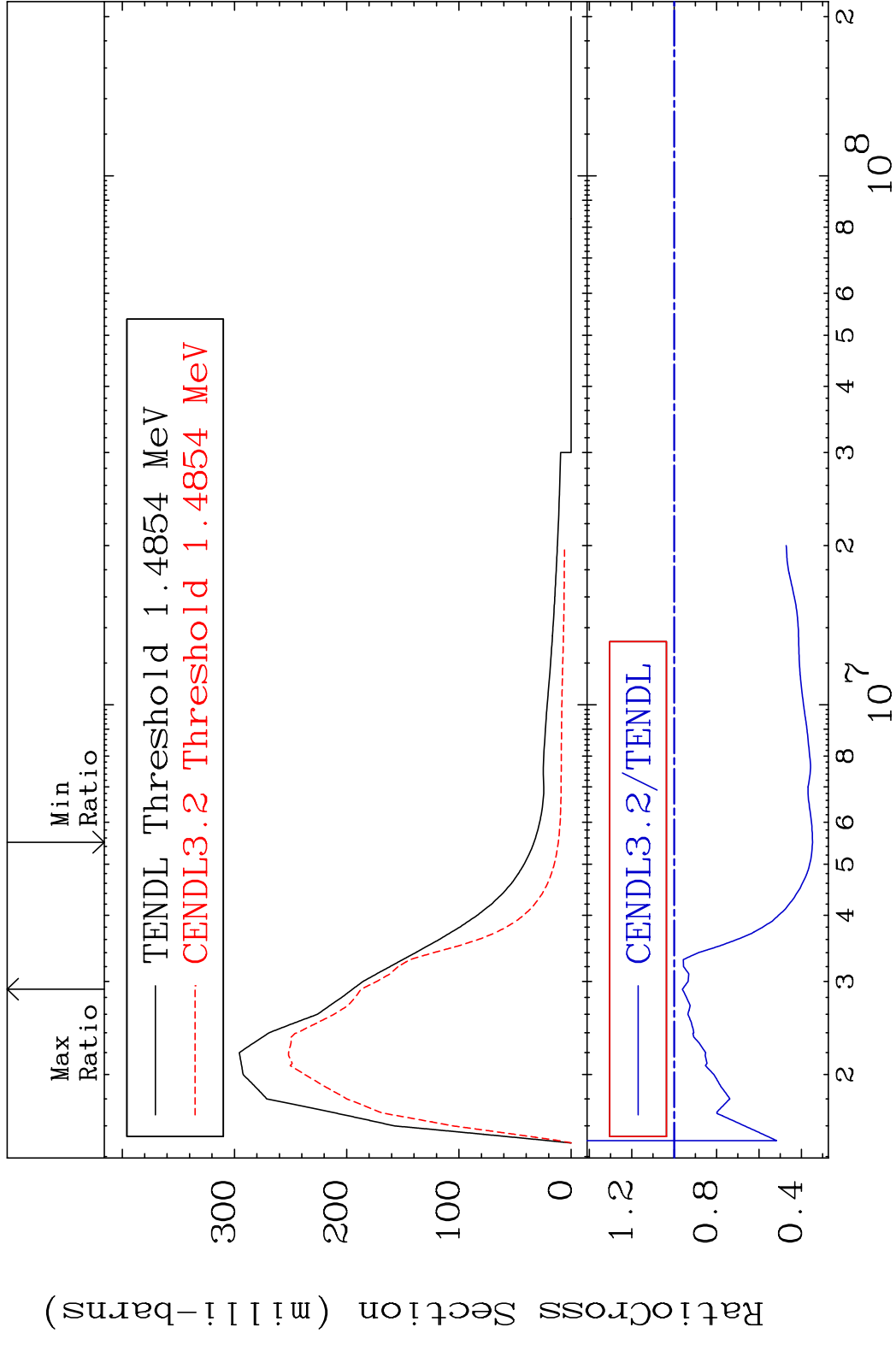


8 Incident Energy (eV) 40-Zr-94

MAT 4037 MT= 52 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 9999. %

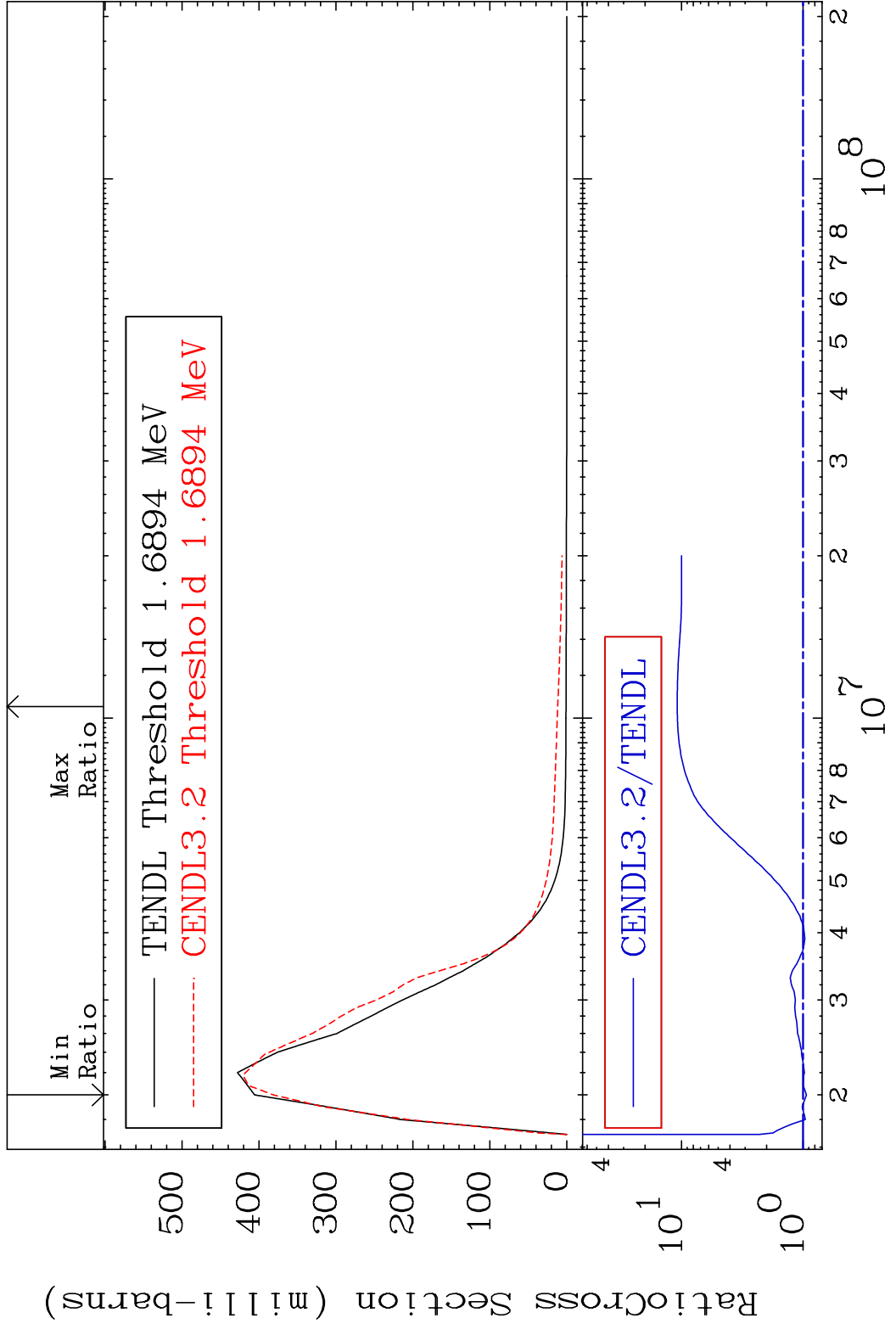


MAT 4037 MT= 53 (n, n') Level 40-Zr-94
 Cross Section -65.29 To -3.894%

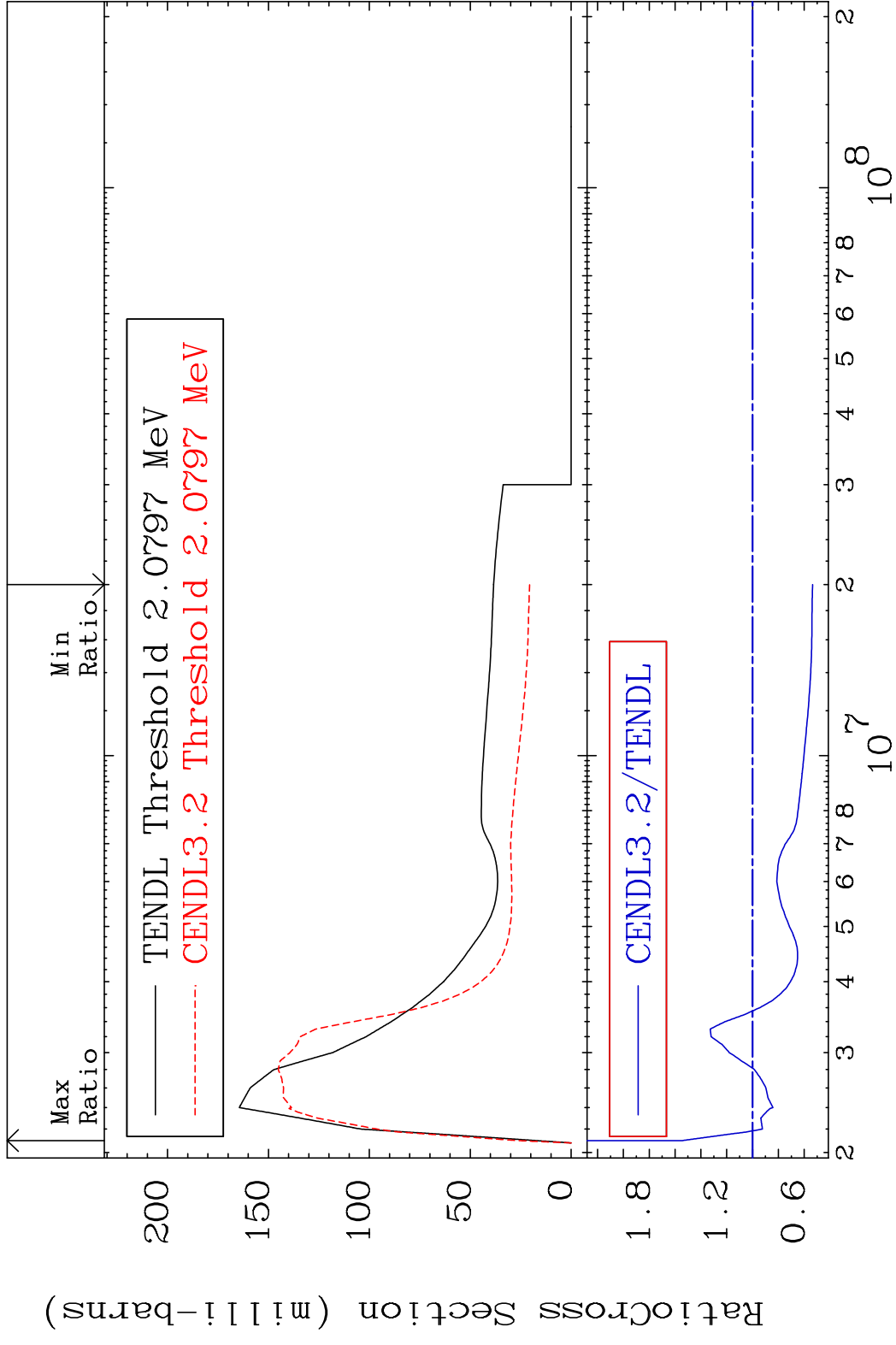


10 Incident Energy (eV) 40-Zr-94

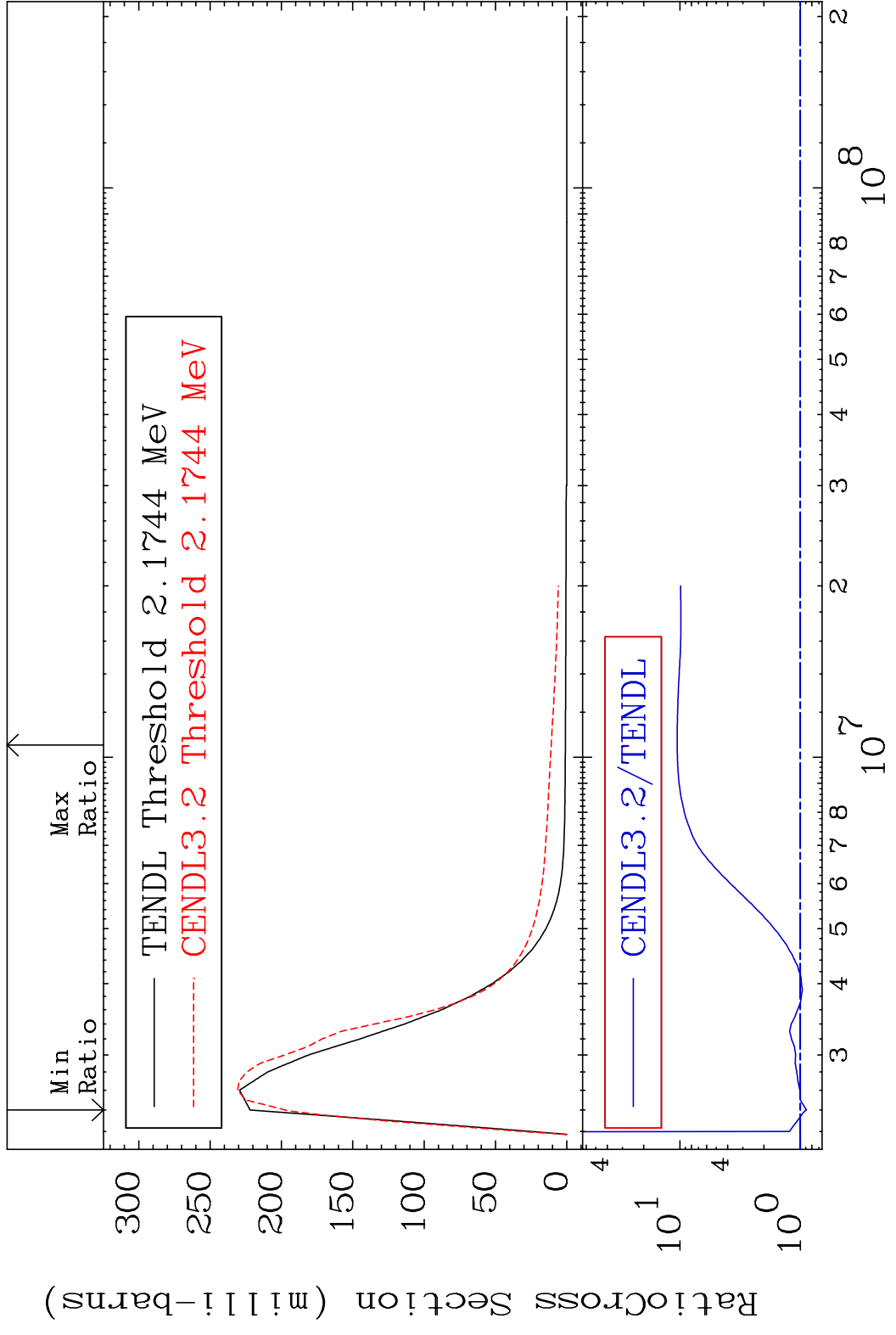
MAT 4037 MT= 54 (n,n') Level 40-Zr-94
 Cross Section -6.048 To 987.7 %



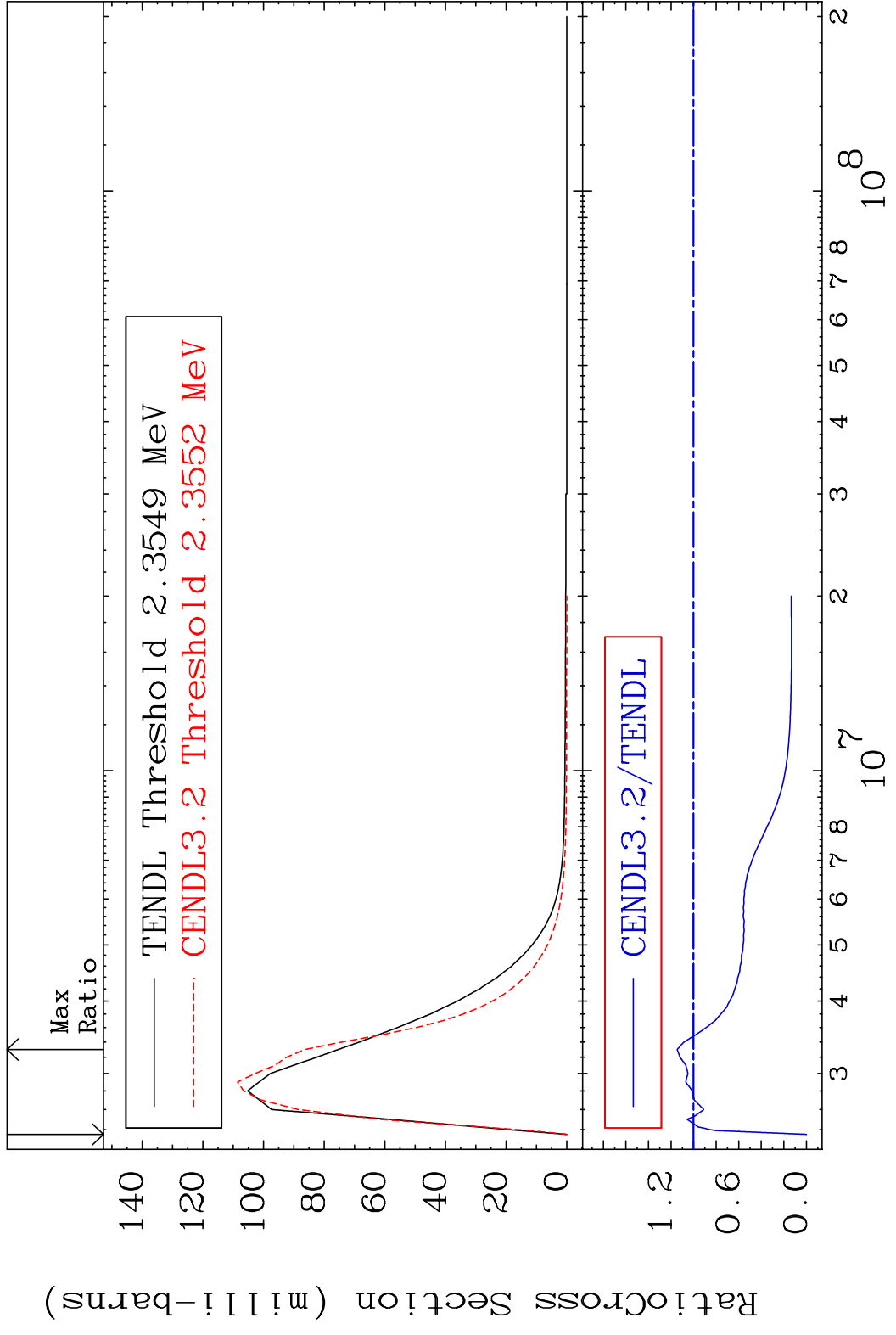
MAT 4037 MT= 55 (n, n') Level 40-Zr-94
 Cross Section -46.45 To 54.35 %



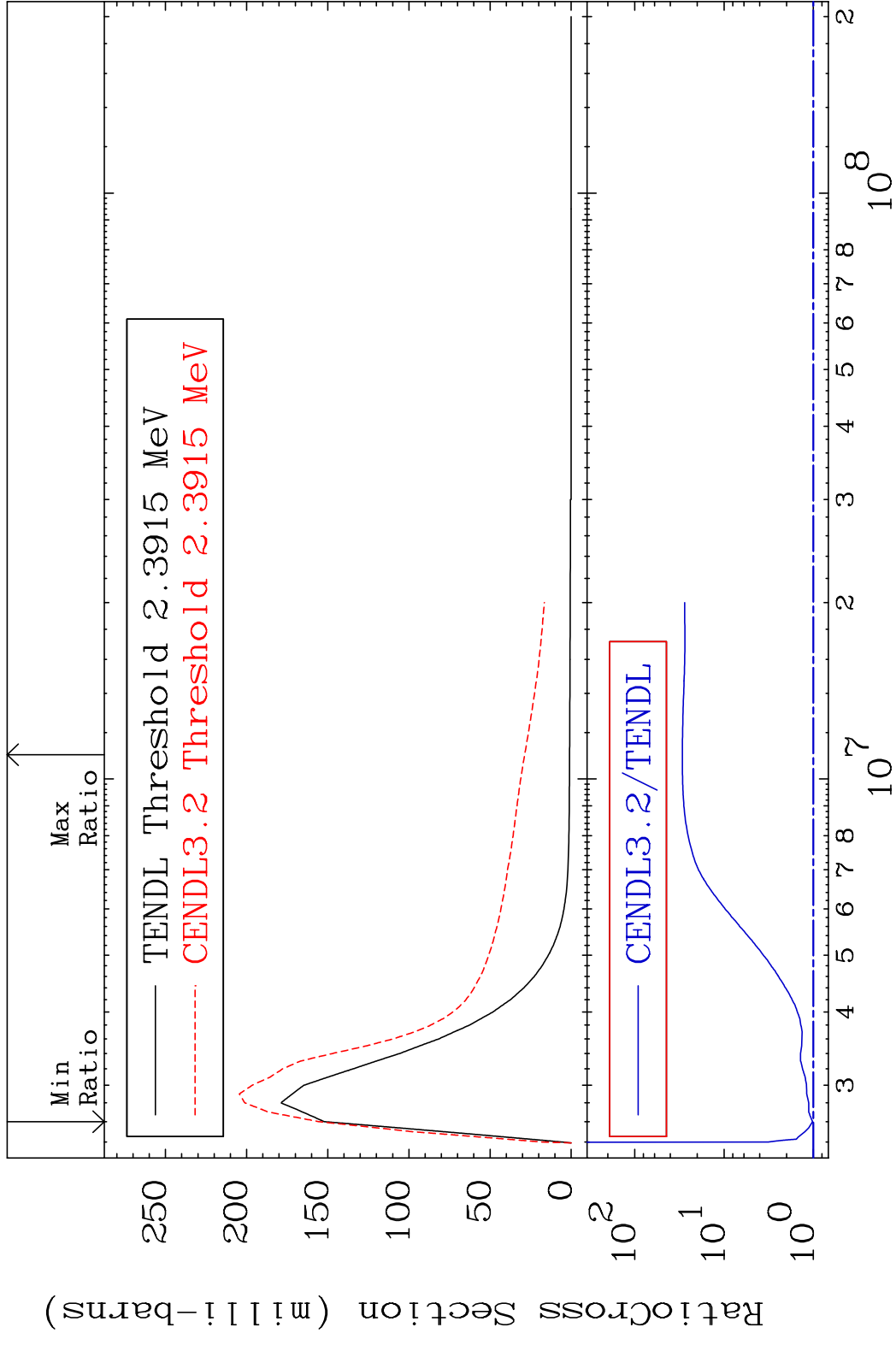
MAT 4037 MT= 56 (n, n') Level 40-Zr-94
 Cross Section -11.13 To 952.6 %



MAT 4037 MT= 57 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 14.57 %

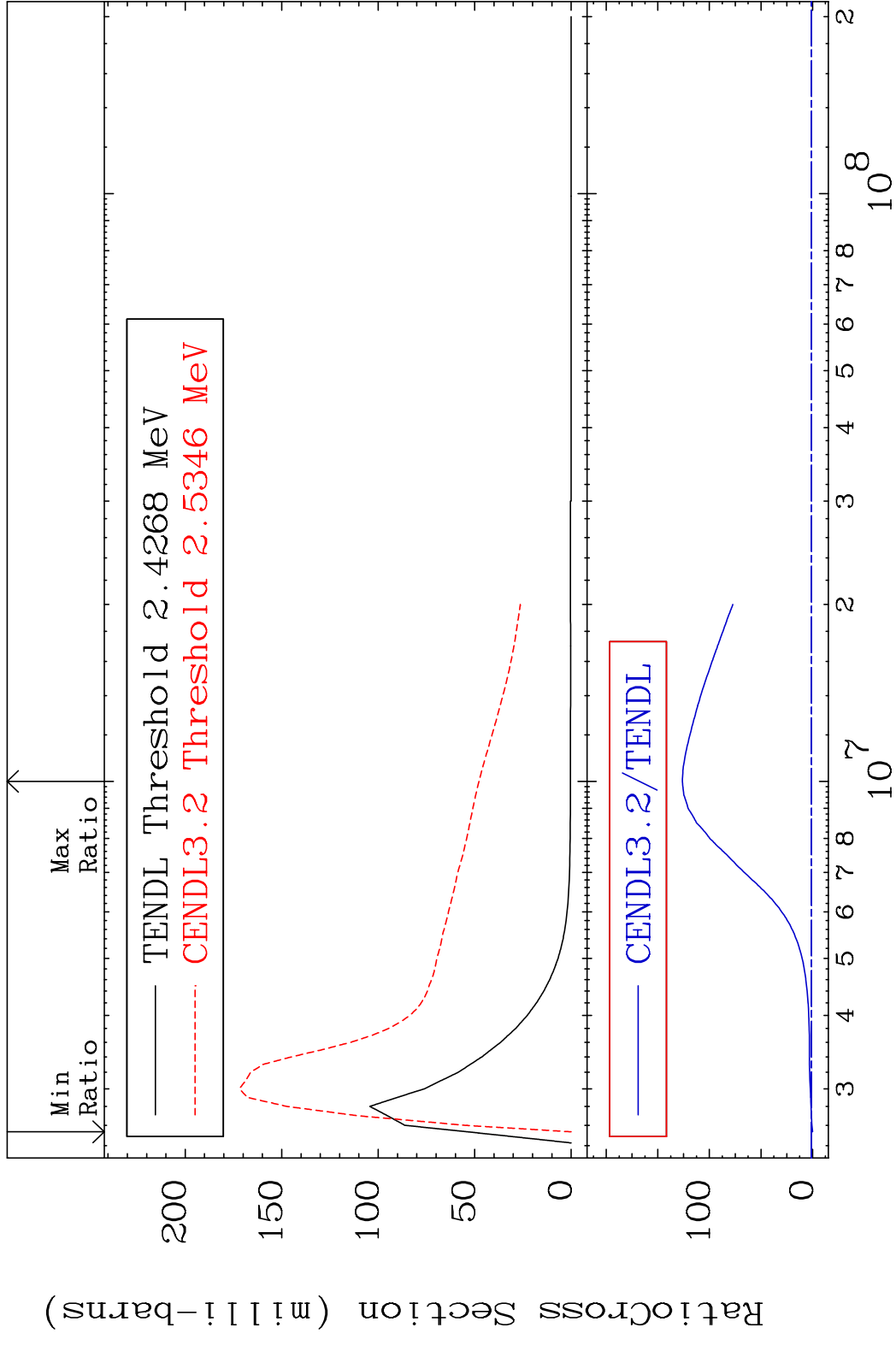


MAT 4037 MT= 58 (n,n') Level 40-Zr-94
 Cross Section 2.209 To 2828. %



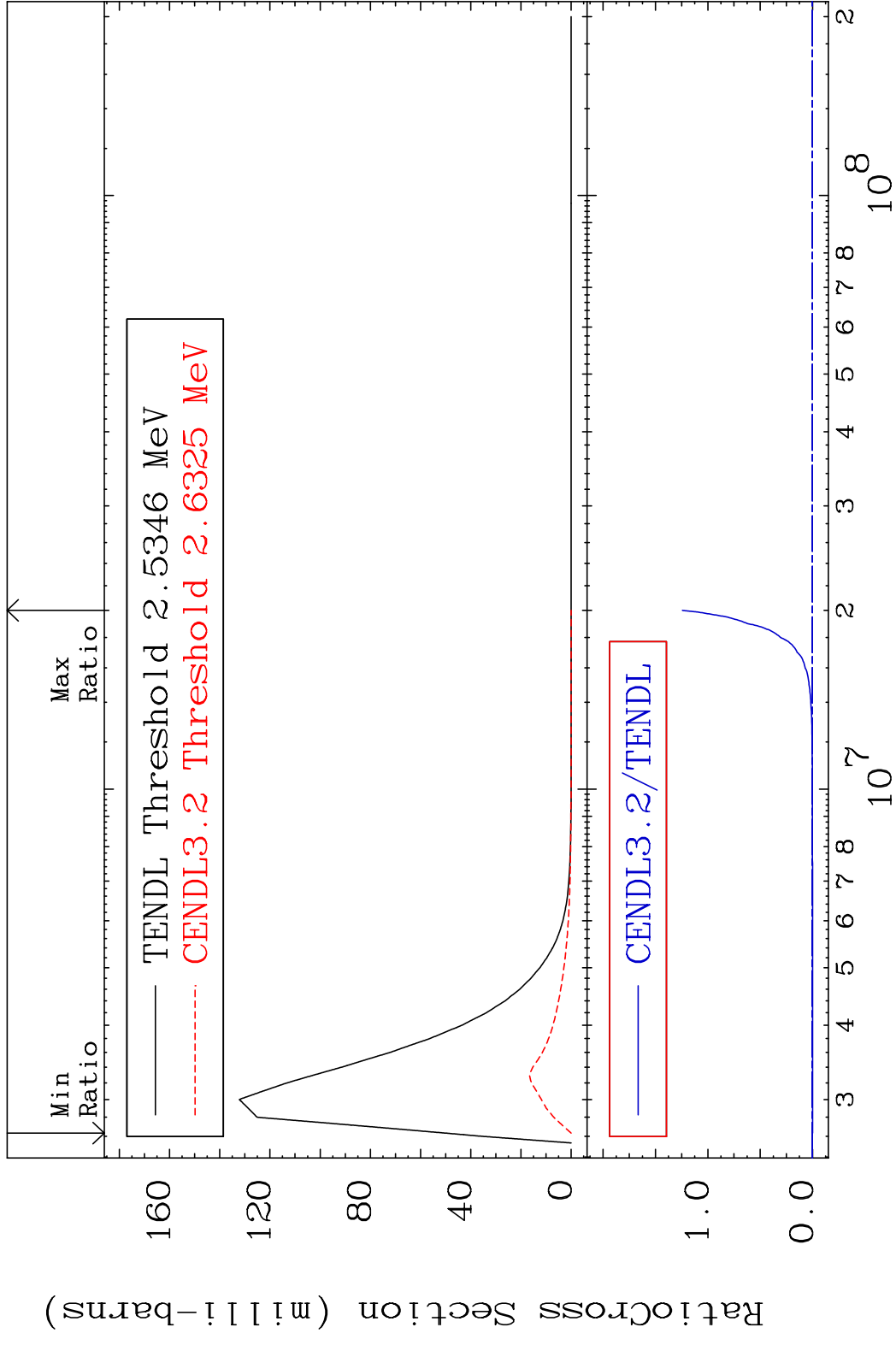
15 Incident Energy (eV) 40-Zr-94

MAT 4037 MT= 59 (n,n') Level 40-Zr-94
 Cross Section -100.0 To 9999. %



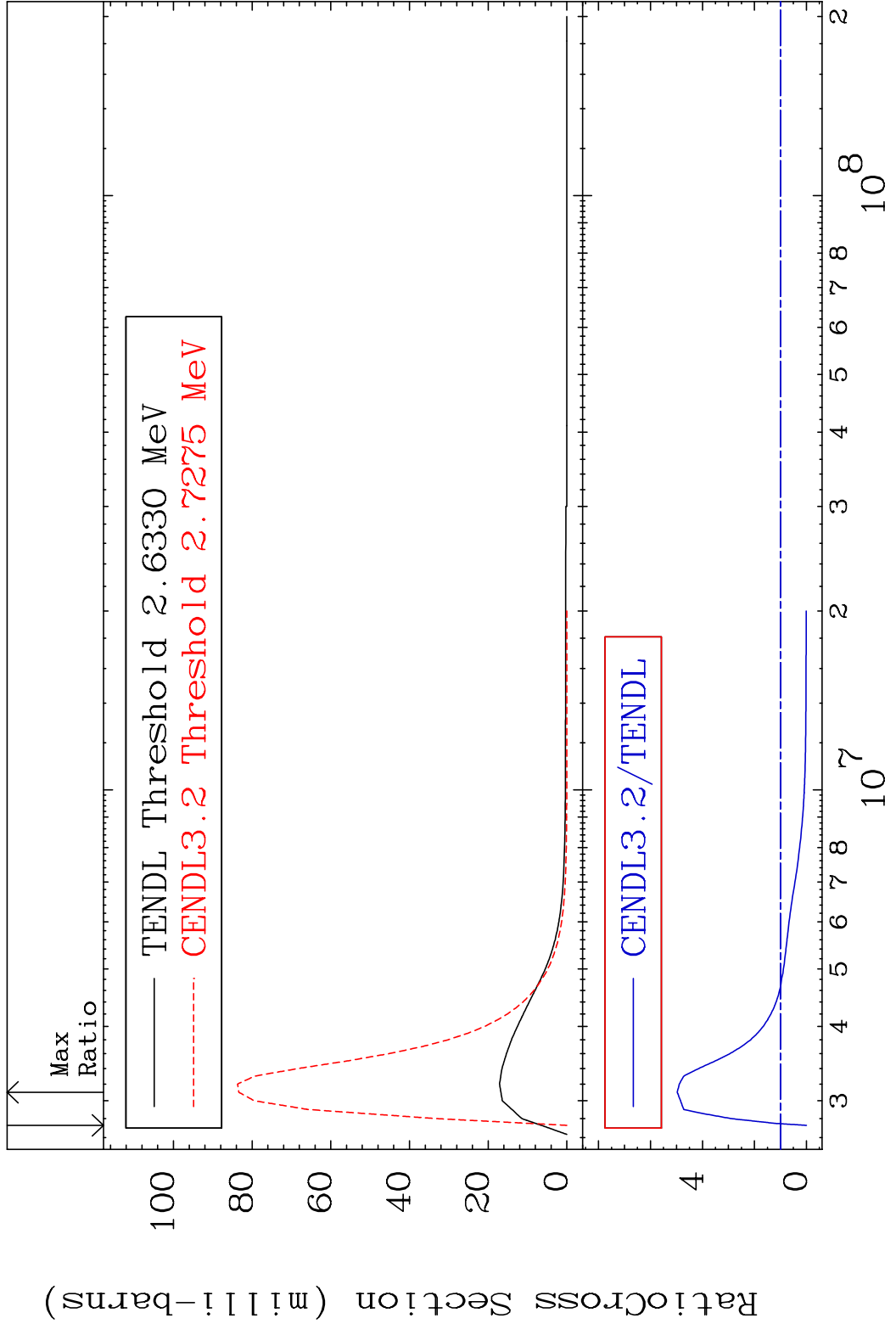
16 40-Zr-94

MAT 4037 MT= 60 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 9999. %



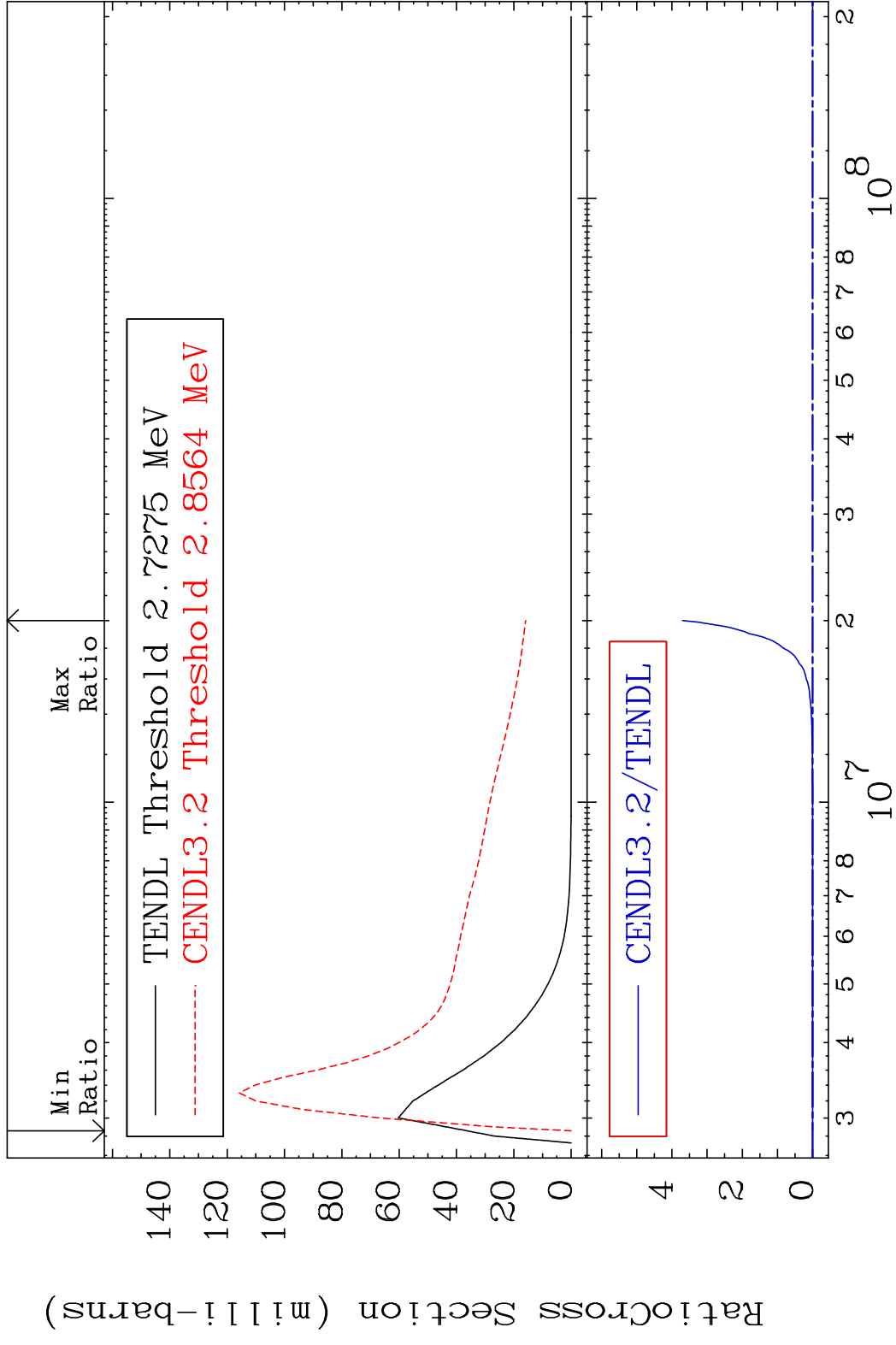
17 Incident Energy (eV) 40-Zr-94

MAT 4037 MT= 61 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 397.3 %



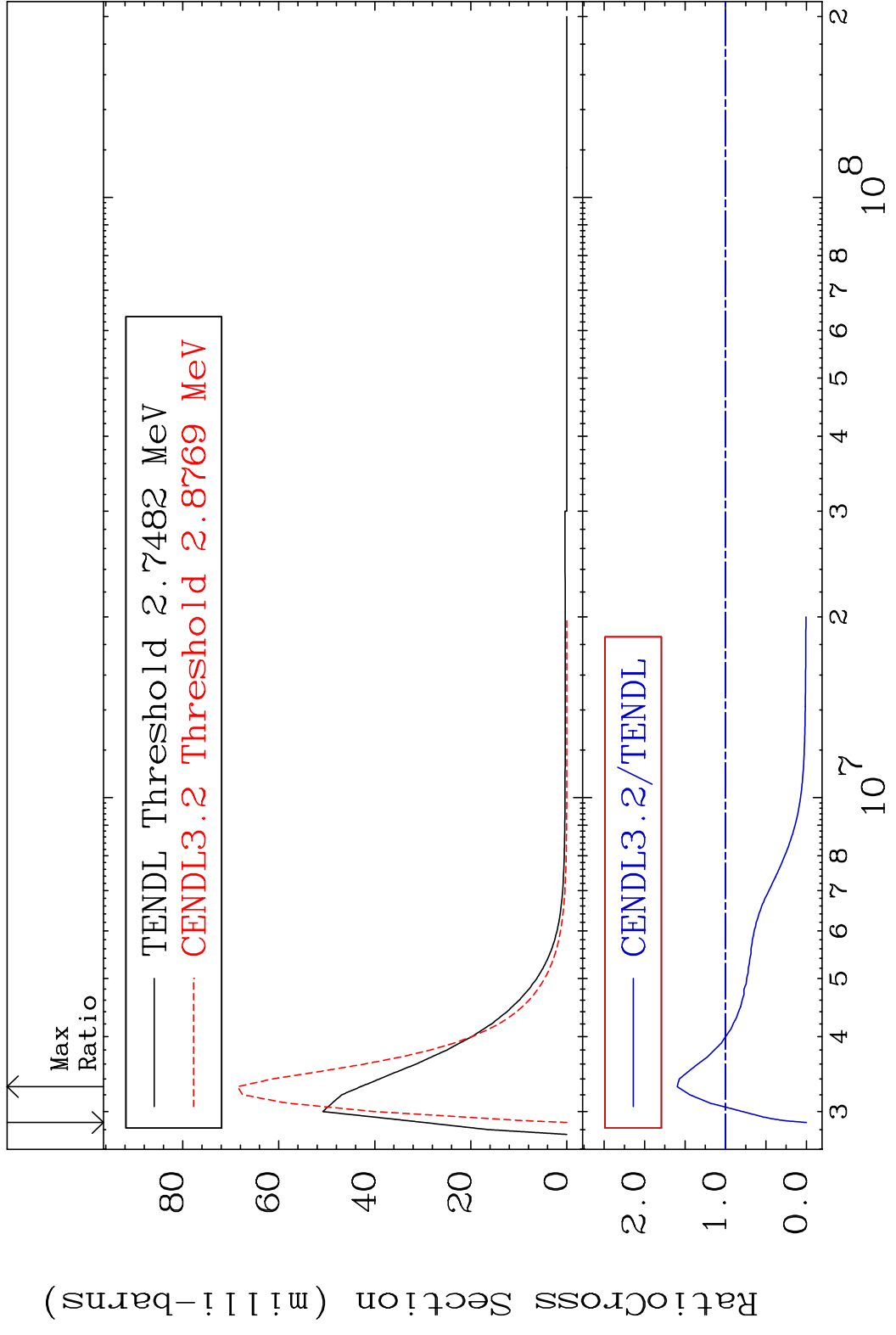
18 40-Zr-94

MAT 4037 MT= 62 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 9999. %



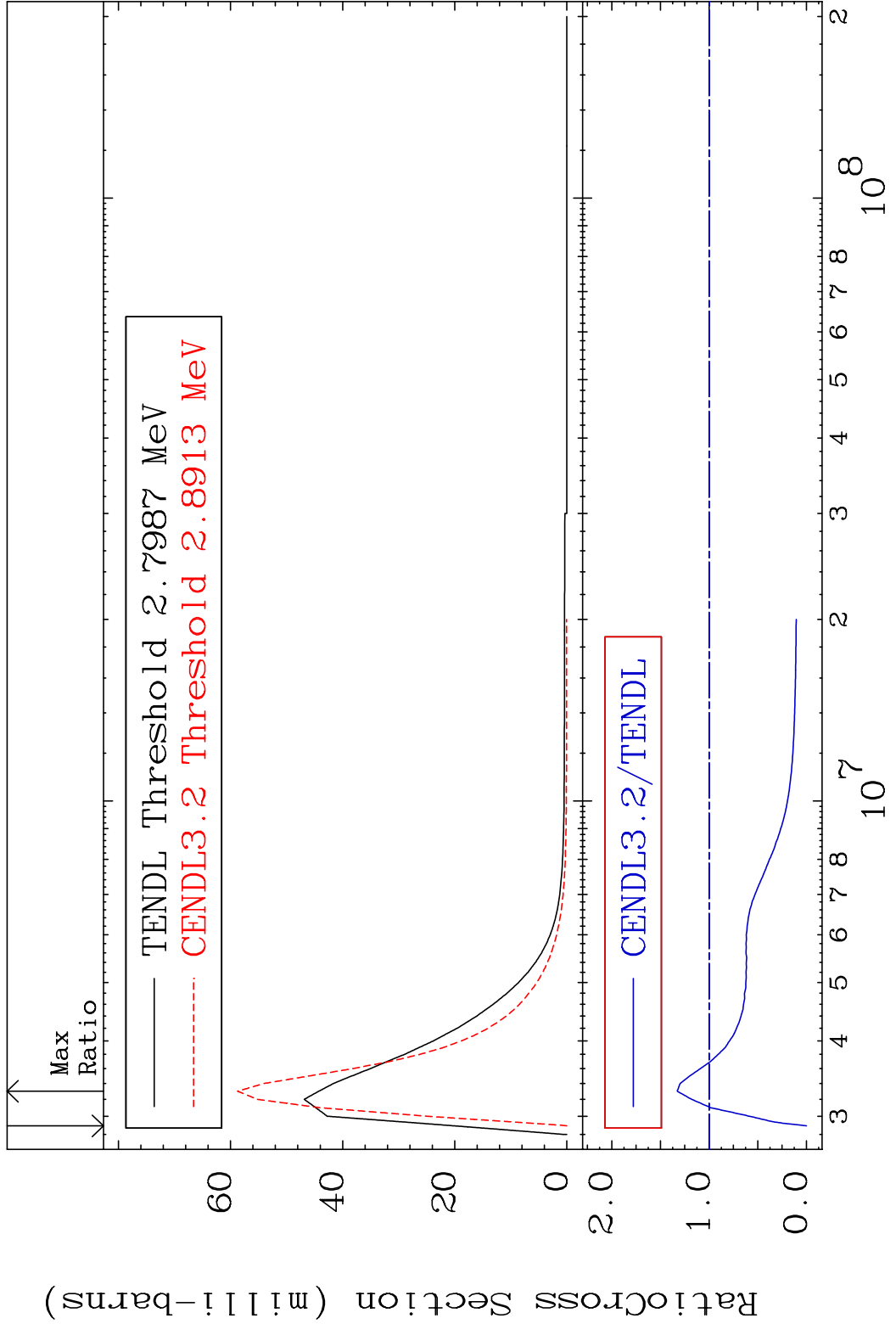
19 40-Zr-94

MAT 4037 MT= 63 (n,n') Level 40-Zr-94
 Cross Section -100.0 To 59.77 %



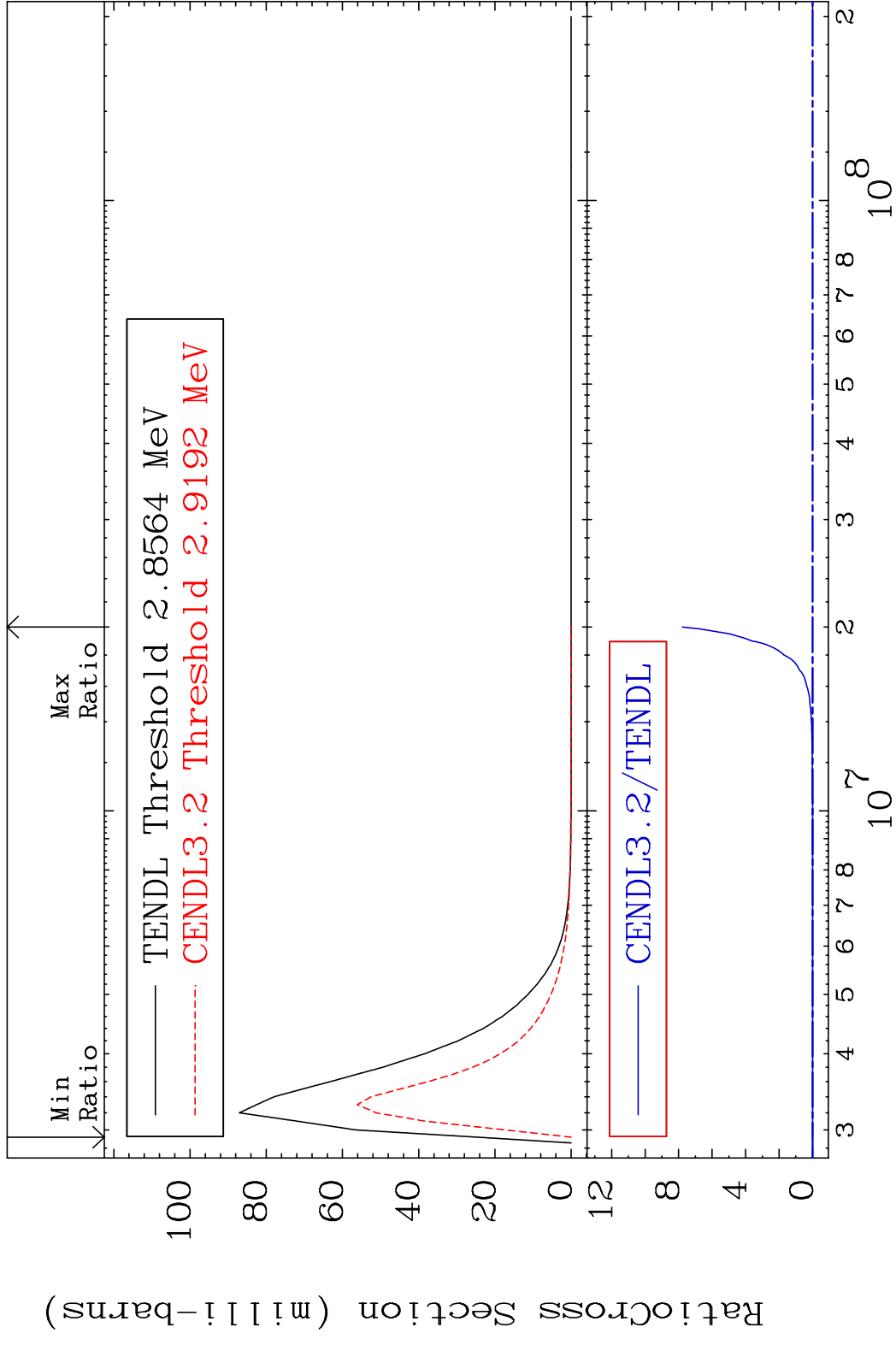
20 40-Zr-94

MAT 4037 MT= 64 (n,n') Level 40-Zr-94
 Cross Section -100.0 To 32.79 %

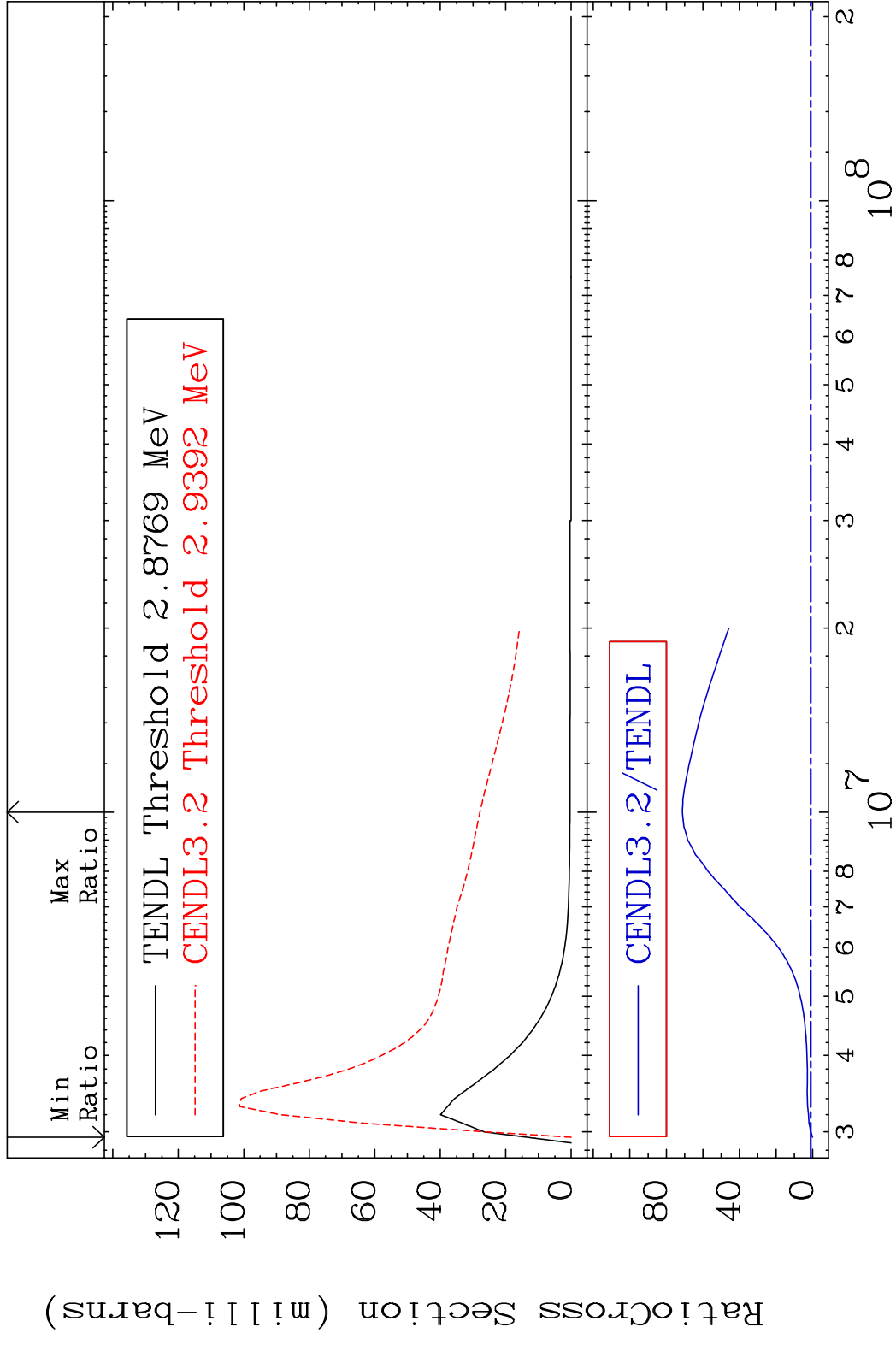


21 Incident Energy (eV) 40-Zr-94

MAT 4037 MT= 65 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 9999. %



MAT 4037 MT= 66 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 7025. %

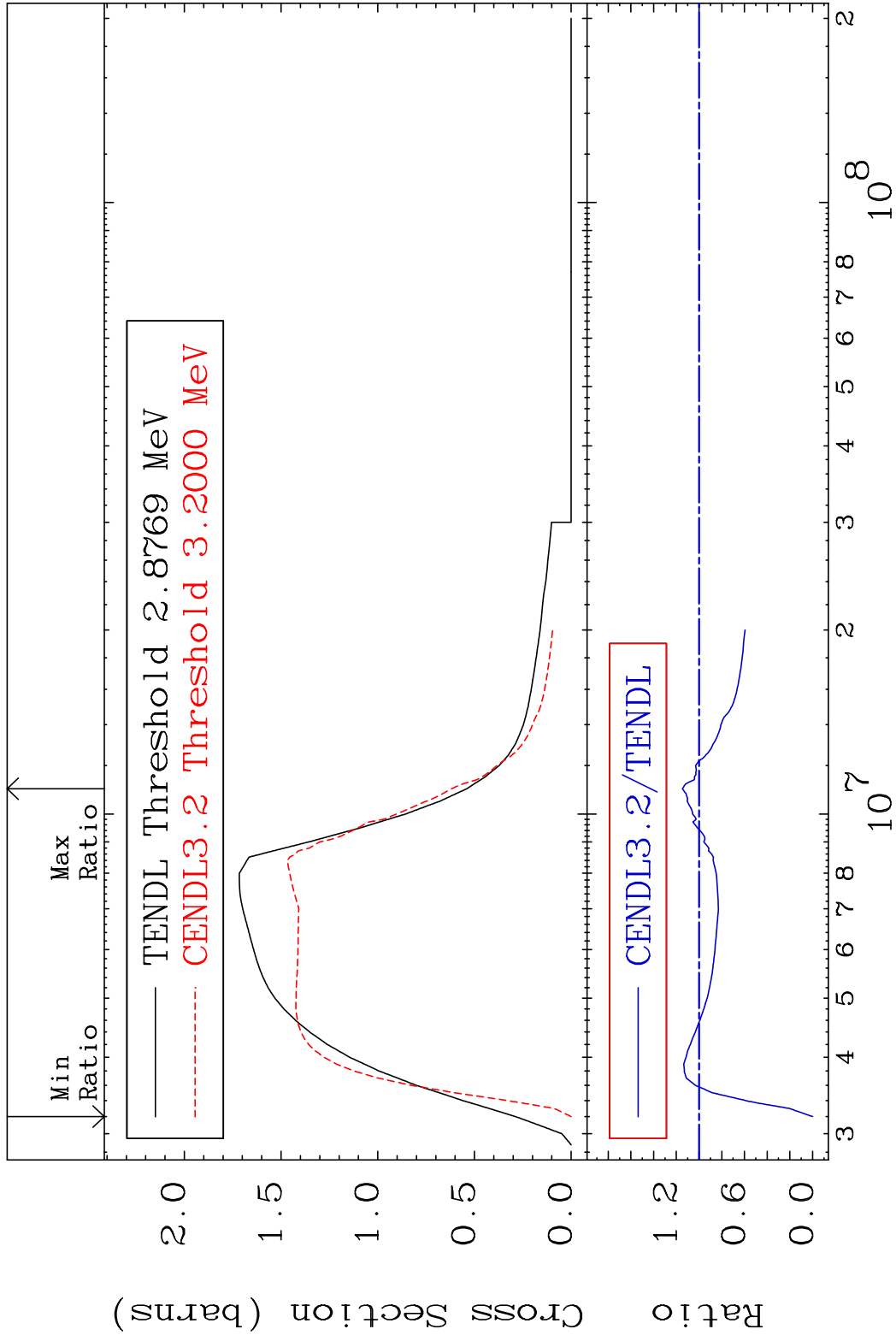


MAT 4037

(n,n') Continuum

40-Zr-94

Cross Section -100.0 To 14.70 %



24

Incident Energy (eV)

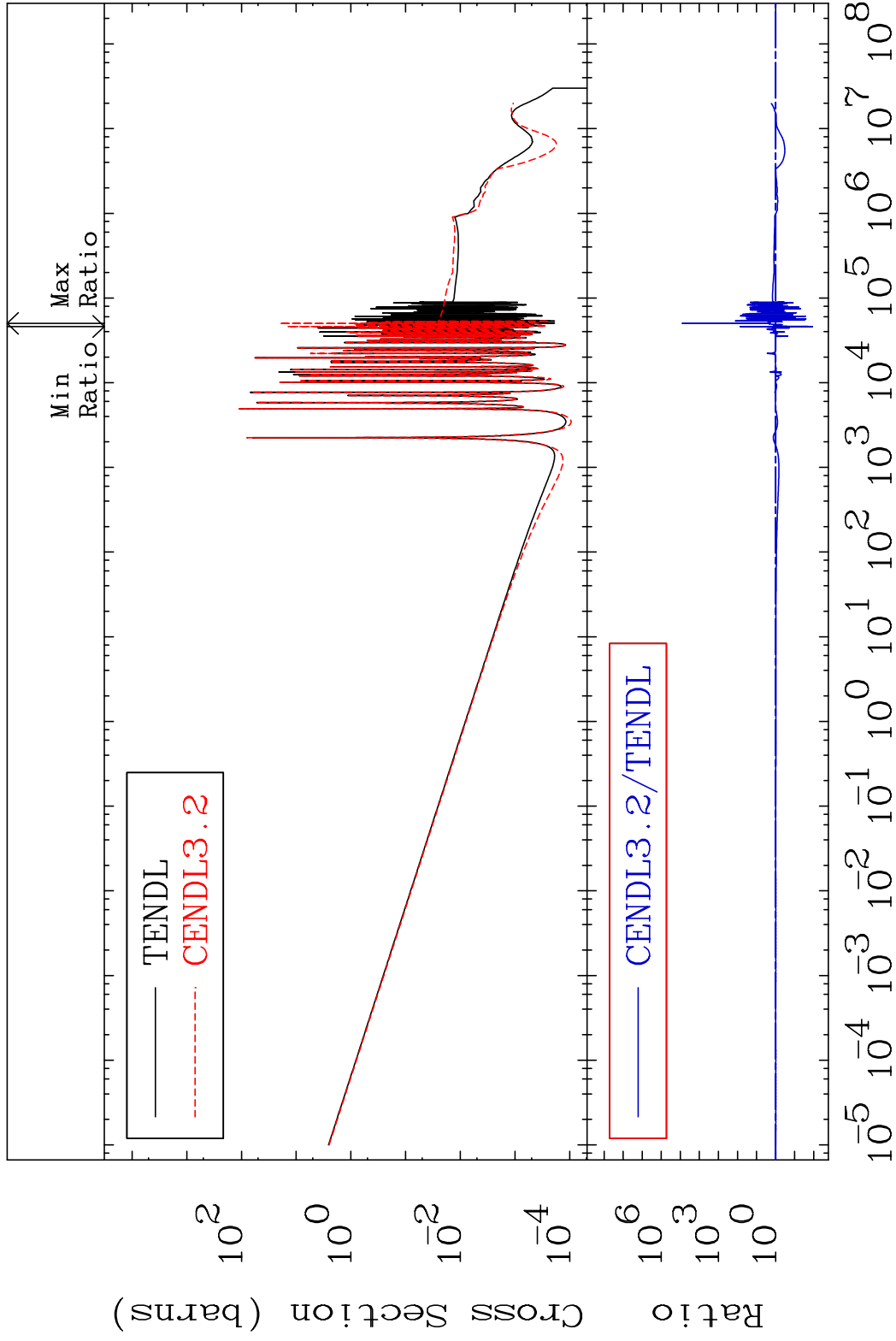
40-Zr-94

MAT 4037

(n, γ)

40-Zr-94

Cross Section -98.85 To 9999. %



25

Incident Energy (eV)

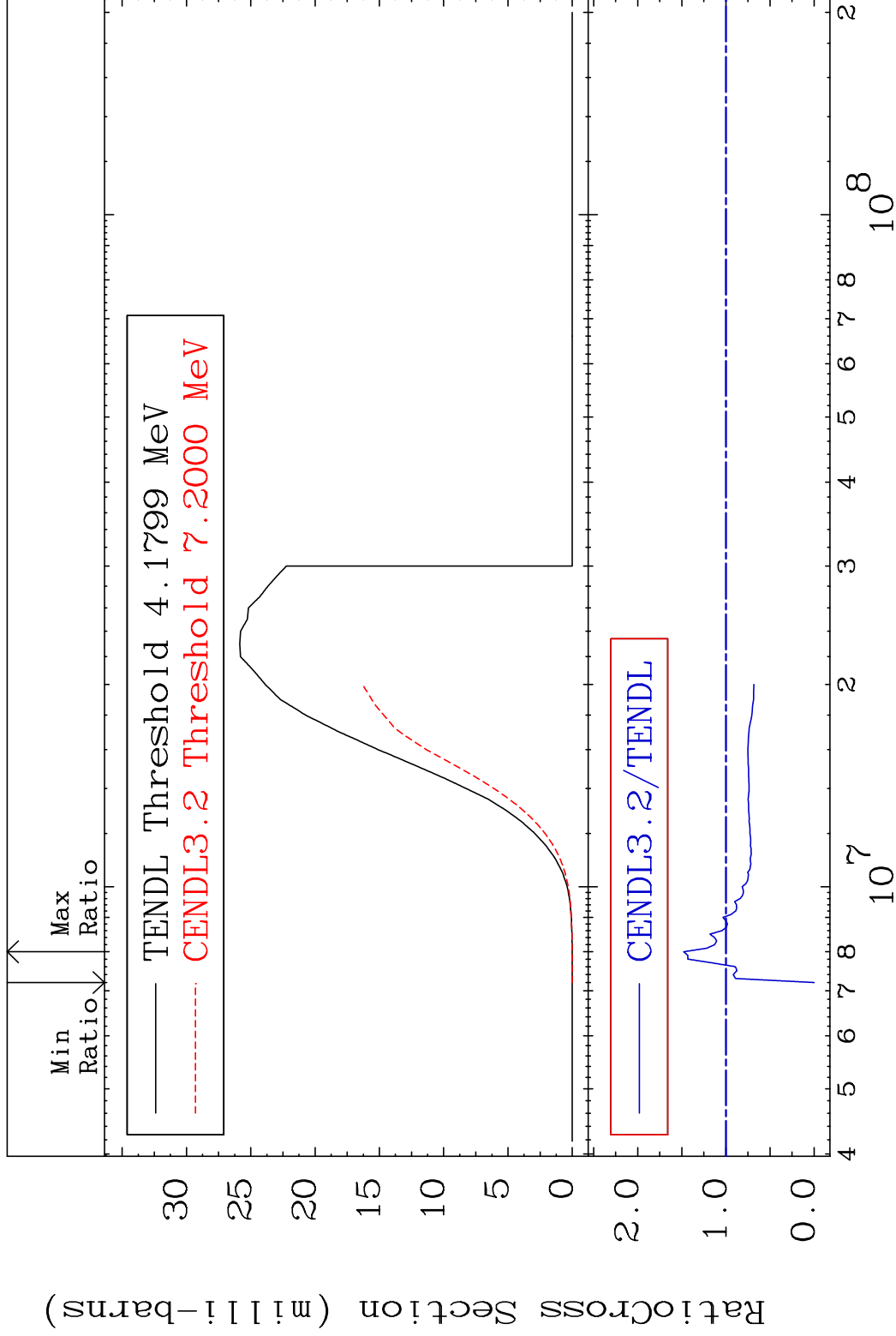
40-Zr-94

MAT 4037

(n, p)

40-Zr-94

Cross Section -100.0 To 47.92 %

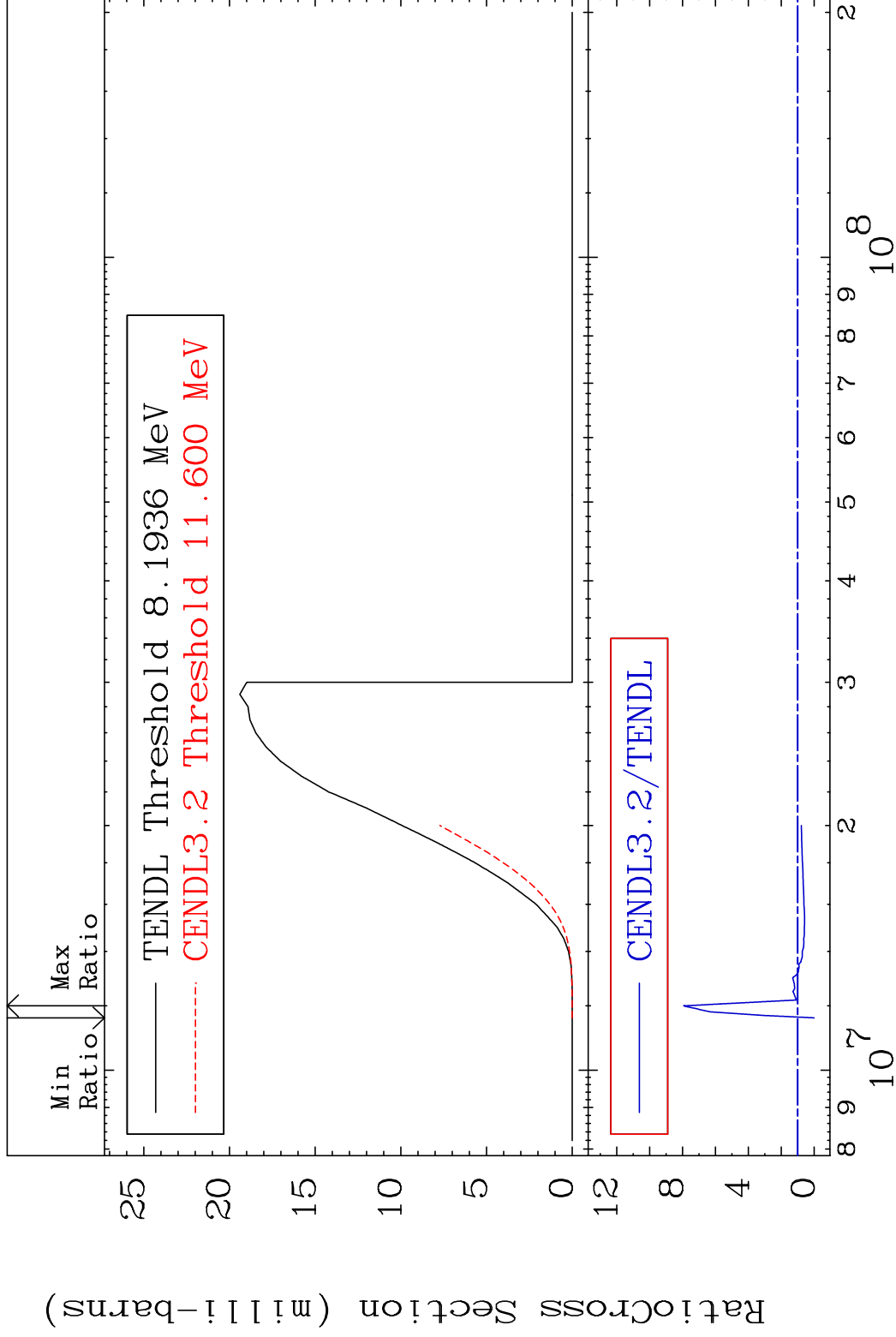


MAT 4037

(n, d)

40-Zr-94

Cross Section -100.0 To 692.8 %



27

Incident Energy (eV)

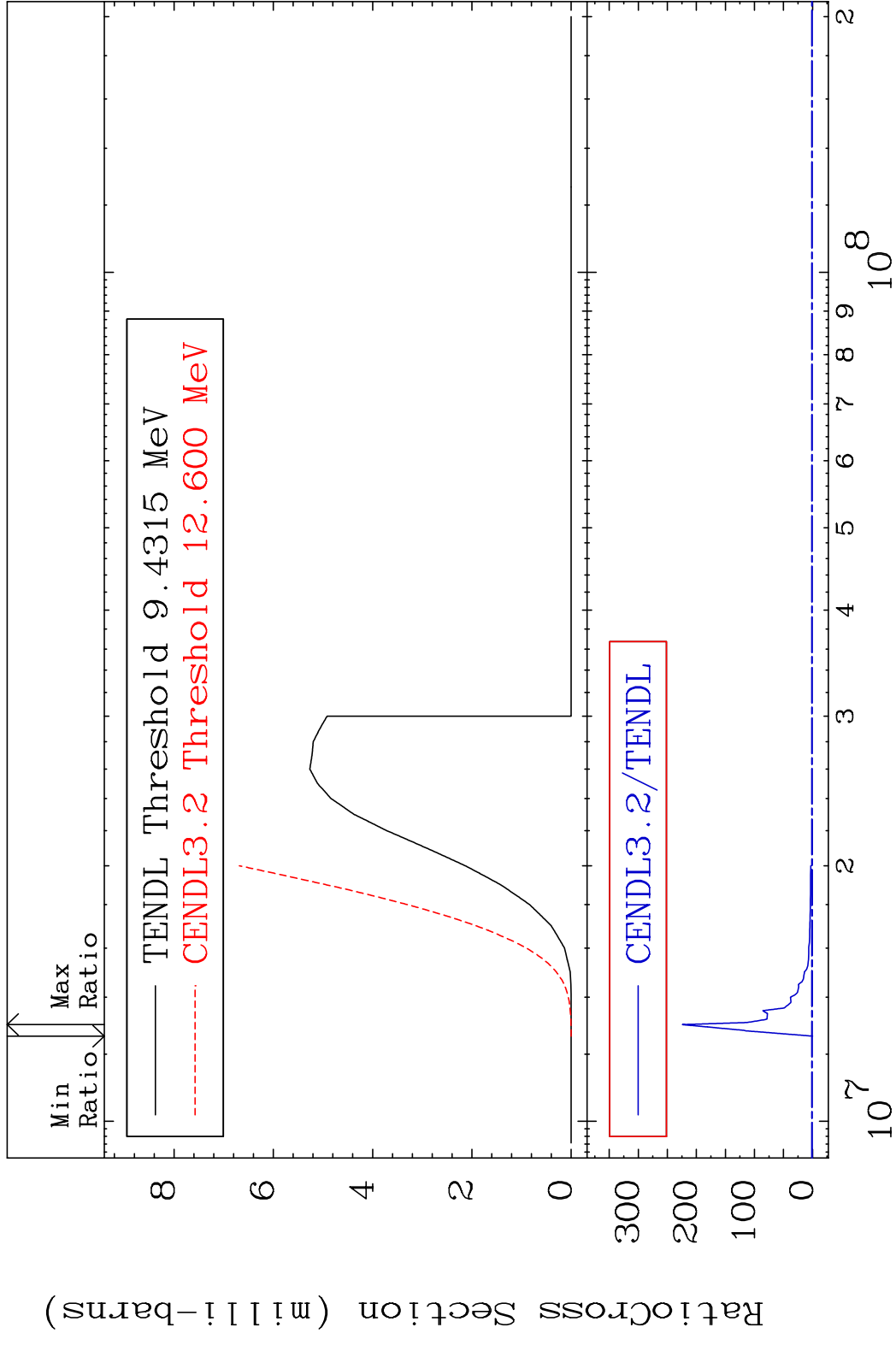
40-Zr-94

MAT 4037

(n, t)

40-Zr-94

Cross Section -100.0 To 9999. %



28

Incident Energy (eV)

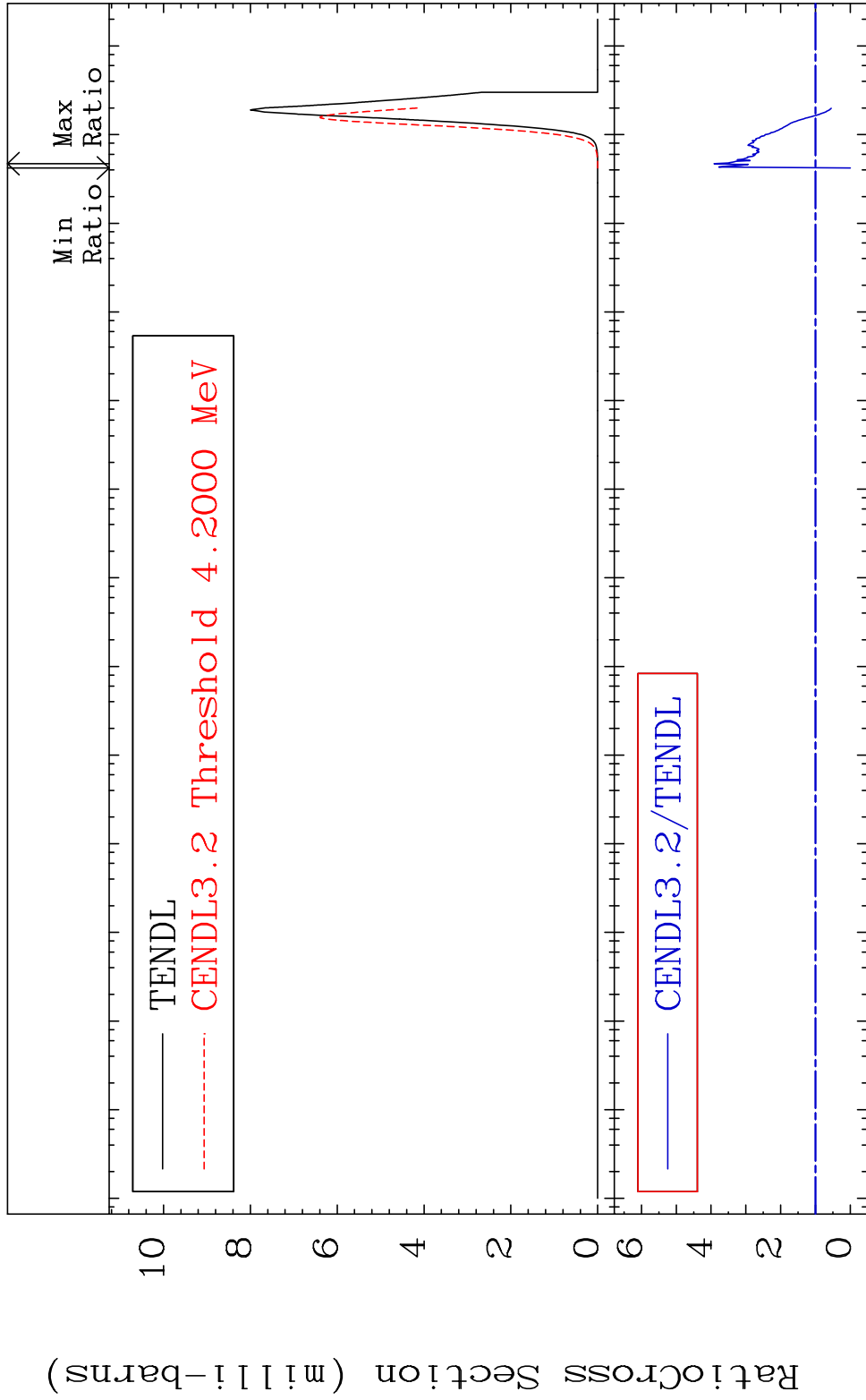
40-Zr-94

MAT 4037

(n, α)

40-Zr-94

Cross Section -100.0 To 291.5 %



29

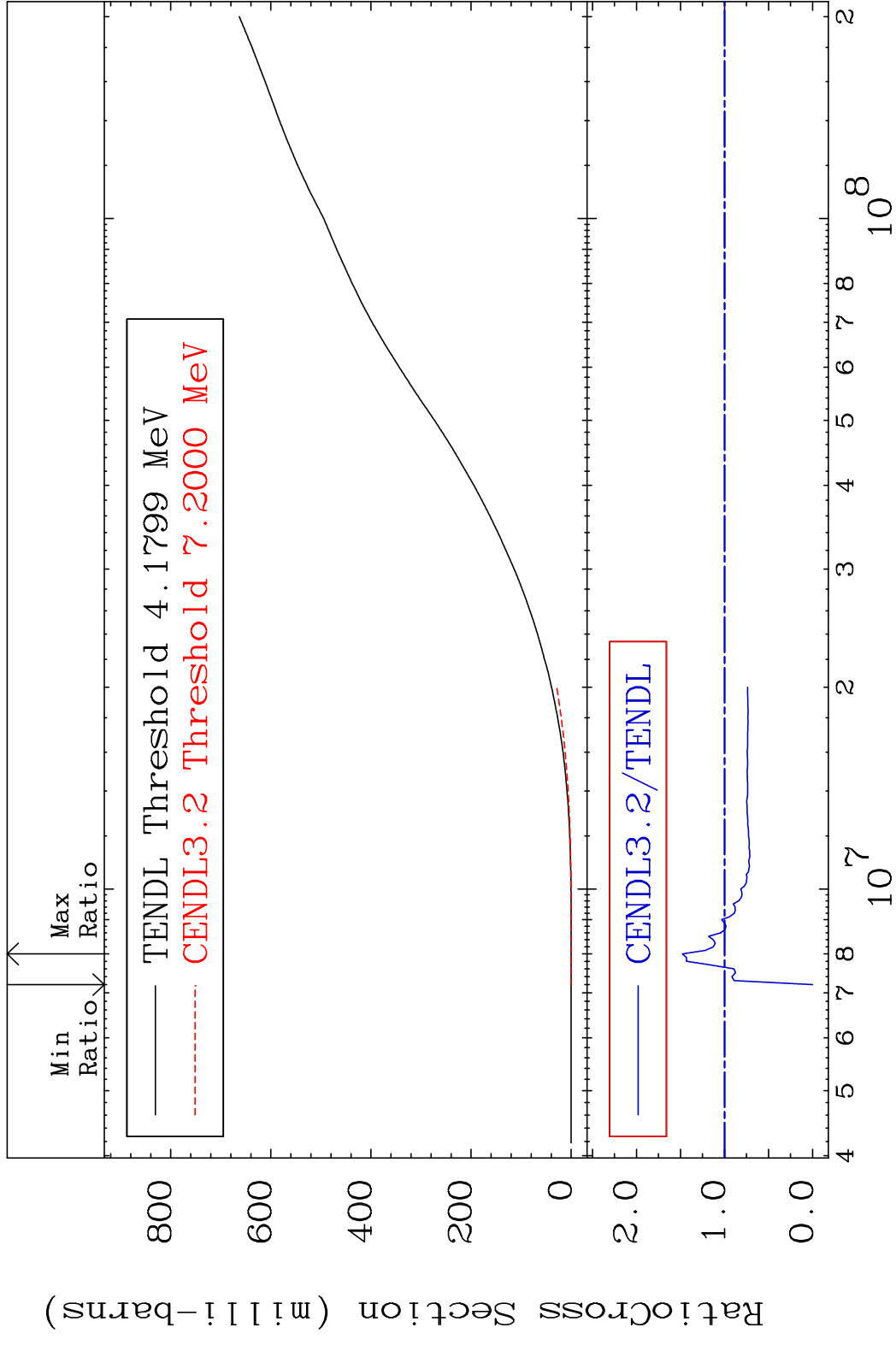
Incident Energy (eV)

40-Zr-94

MAT 4037

Hydrogen Production
Cross Section -100.0 To 47.92 %

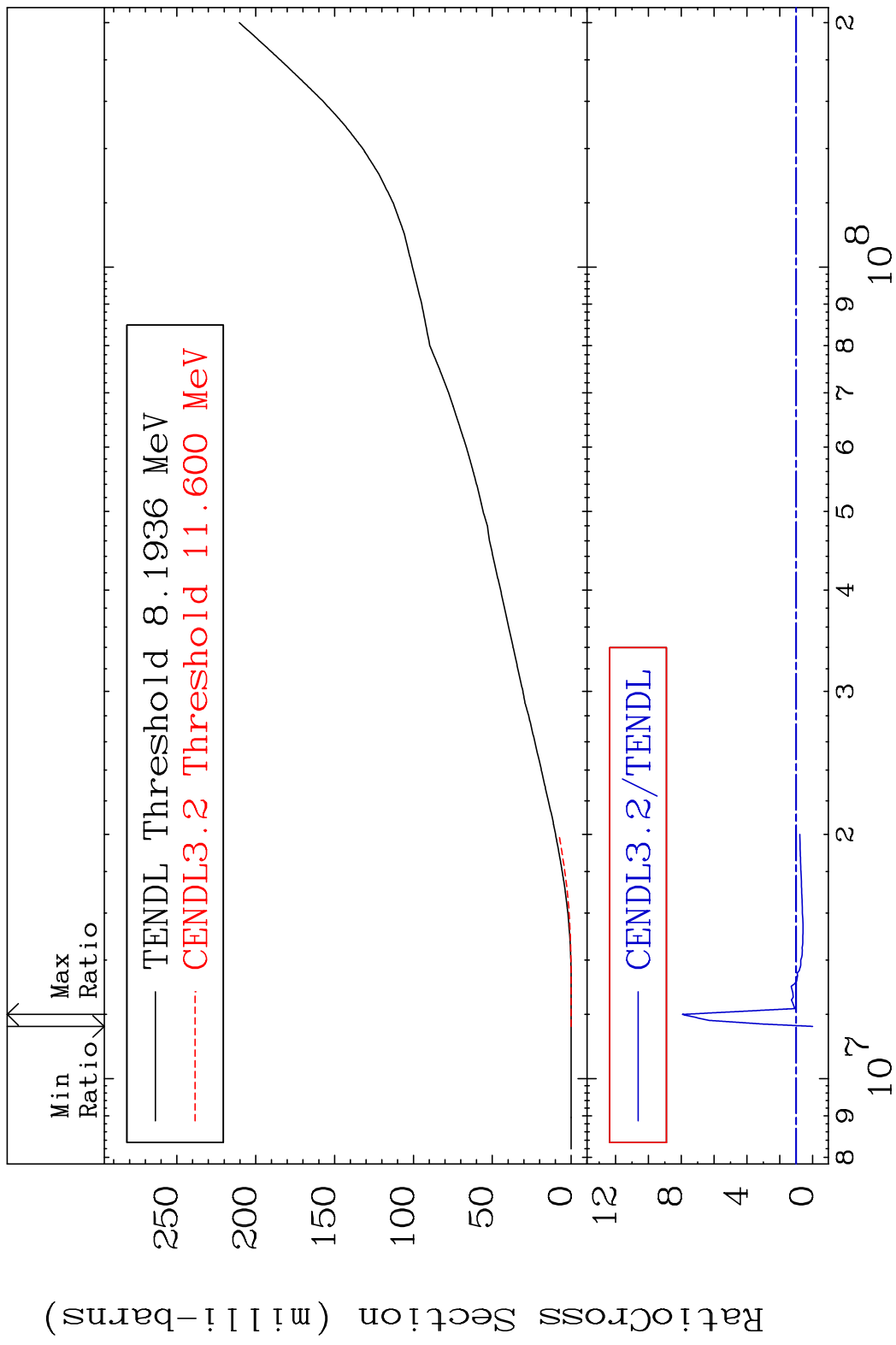
40-Zr-94



Incident Energy (eV)

30

MAT 4037 Deuterium Production 40-Zr-94
 Cross Section -100.0 To 692.8 %

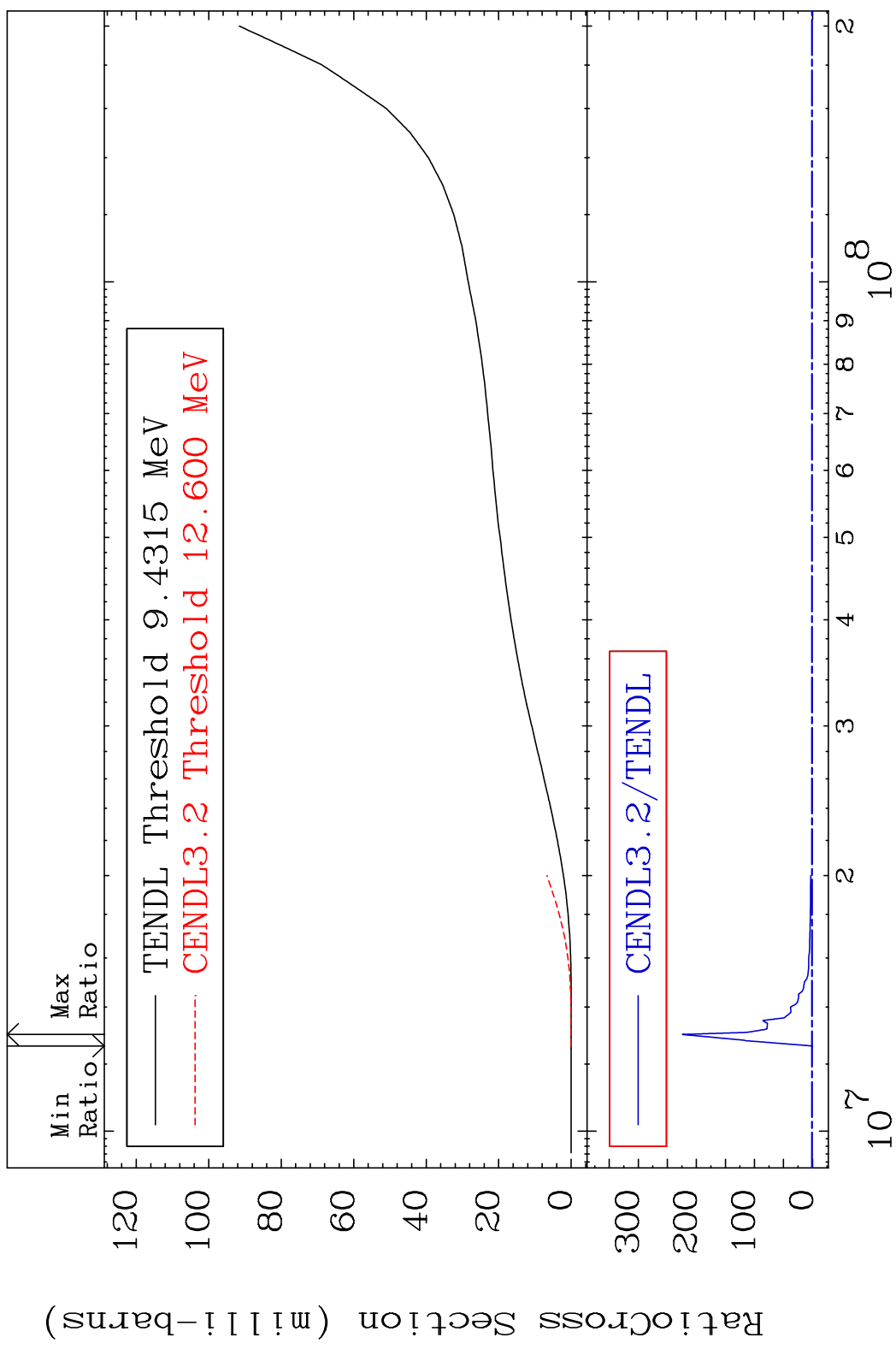


MAT 4037

Tritium Production

40-Zr-94

Cross Section -100.0 To 9999. %



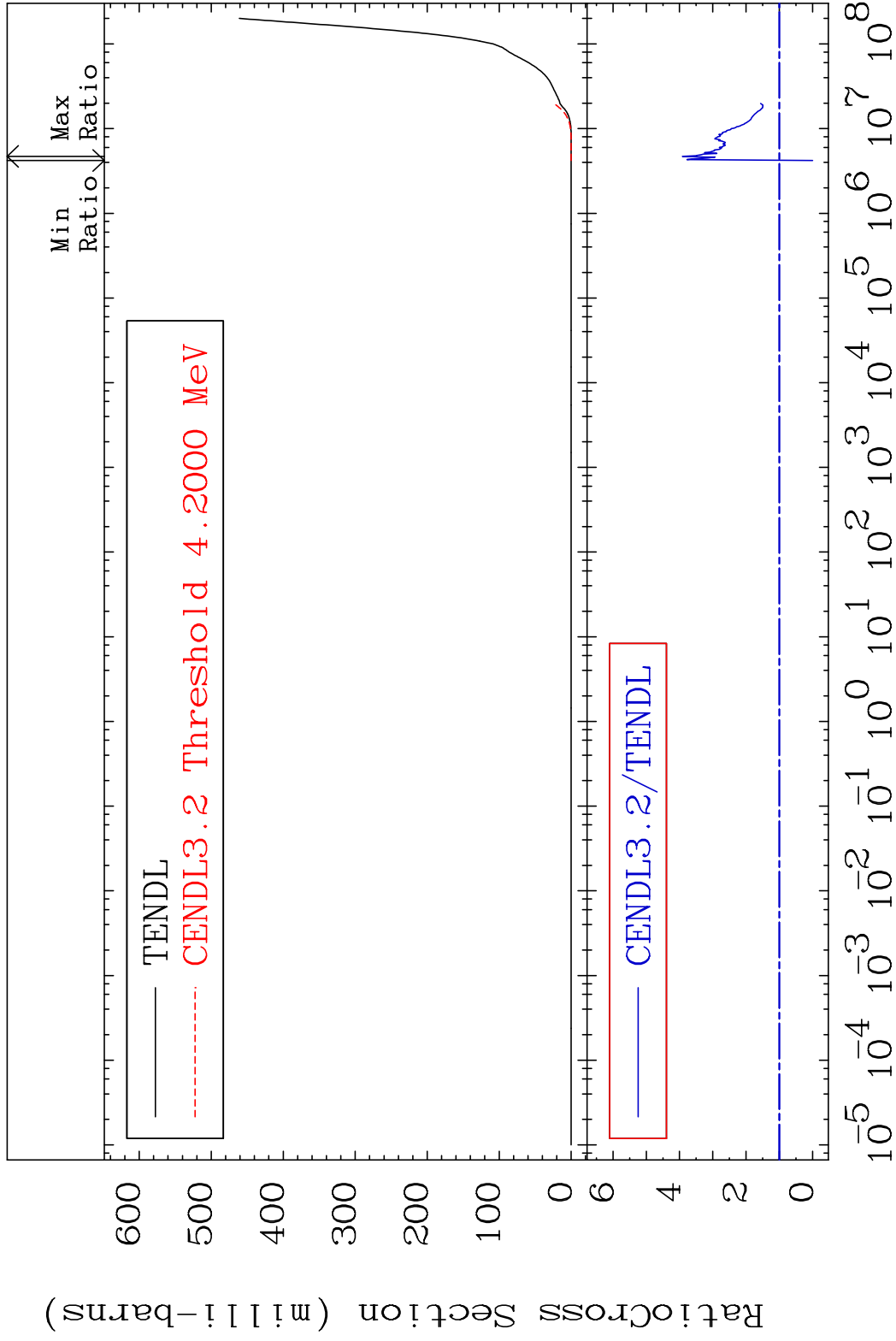
32

MAT 4037

He-4 Production

40-Zr-94

Cross Section -100.0 To 291.5 %

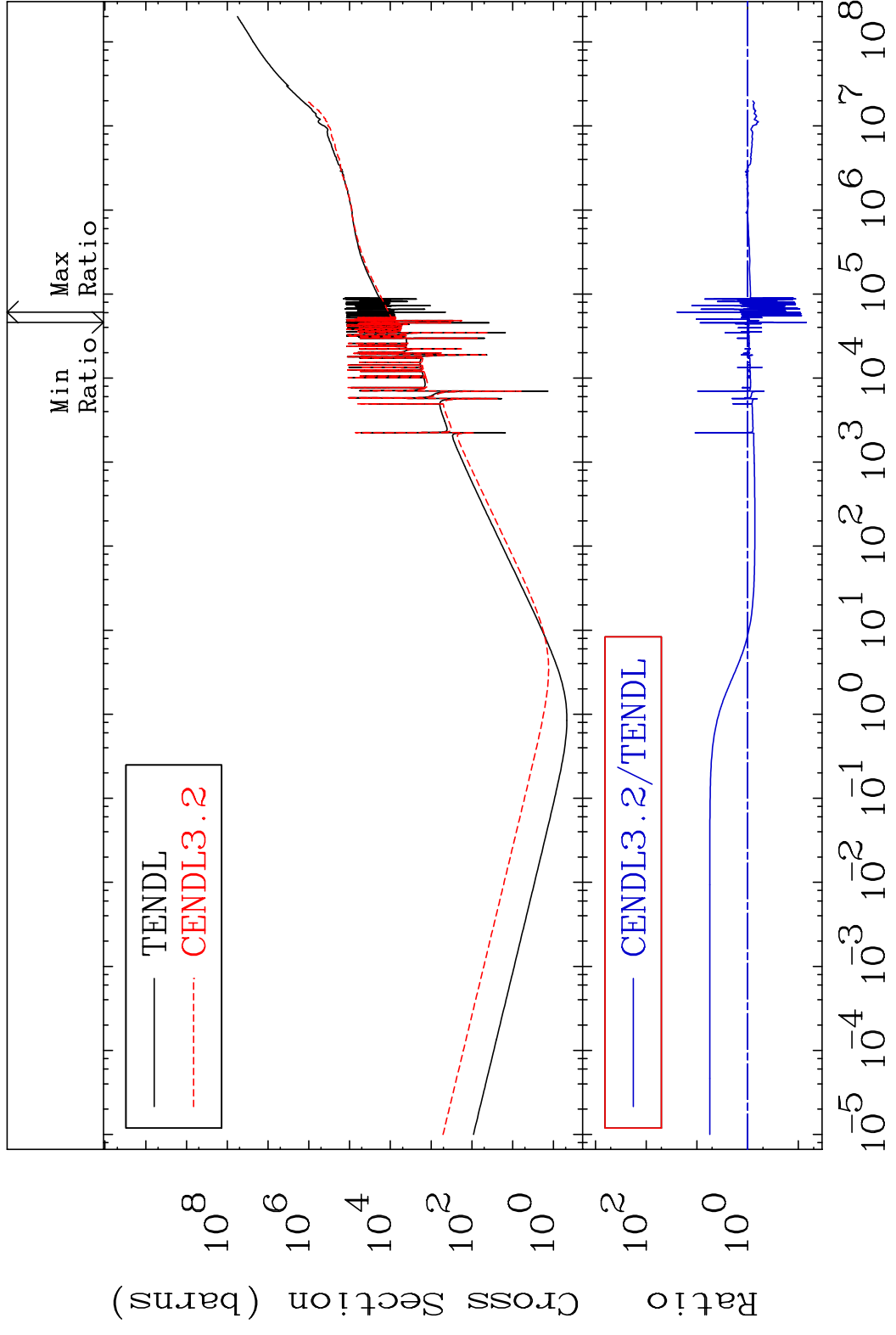


33

Incident Energy (eV)

40-Zr-94

MAT 4037 Kerma total (eV-barns) 40-Zr-94
 Cross Section -93.05 To 2349. %



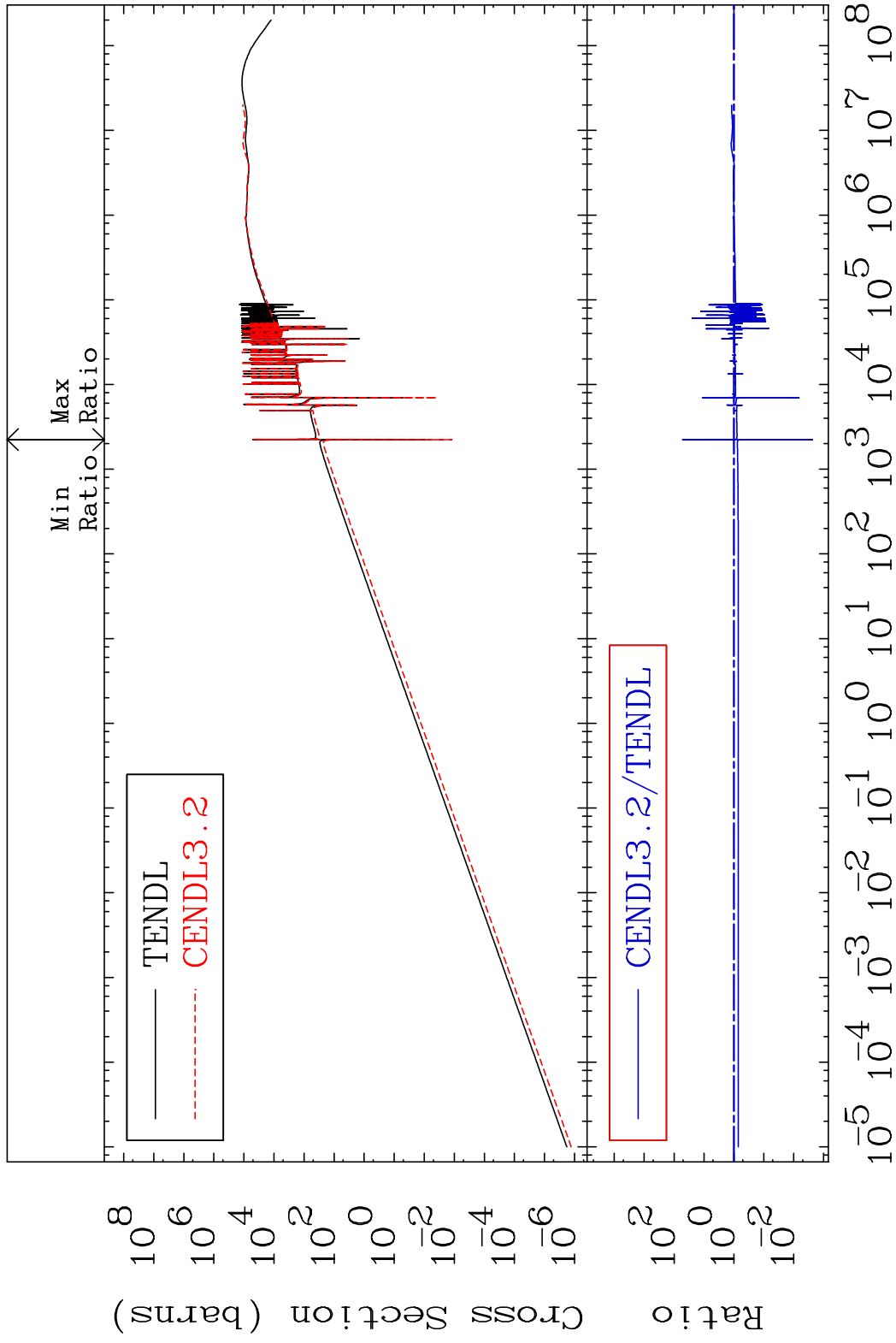
34 Incident Energy (eV) 40-Zr-94

MAT 4037

Kerma elastic
Cross Section

40-Zr-94

-99.777 To 5191. %

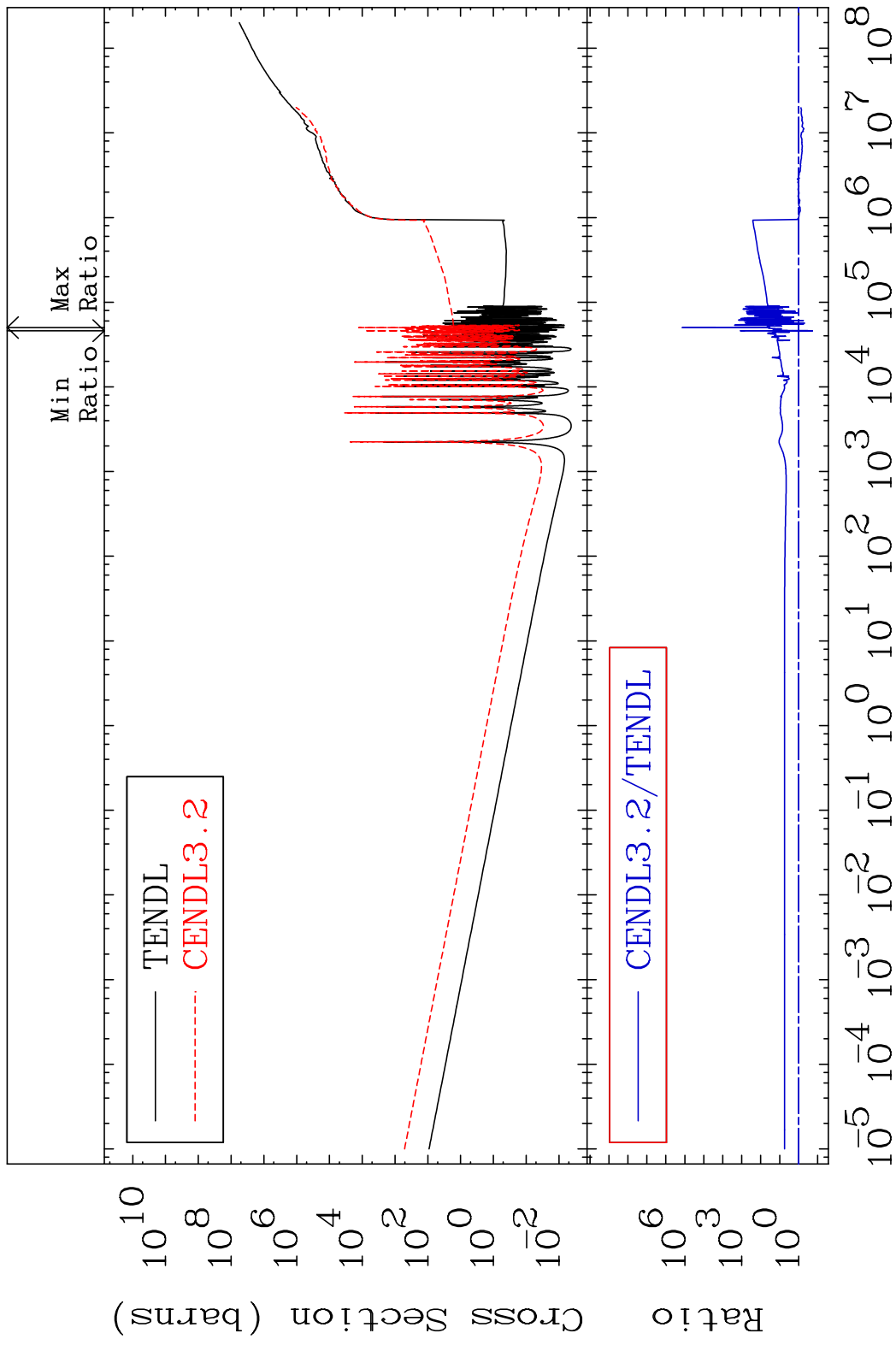


35

Incident Energy (eV)

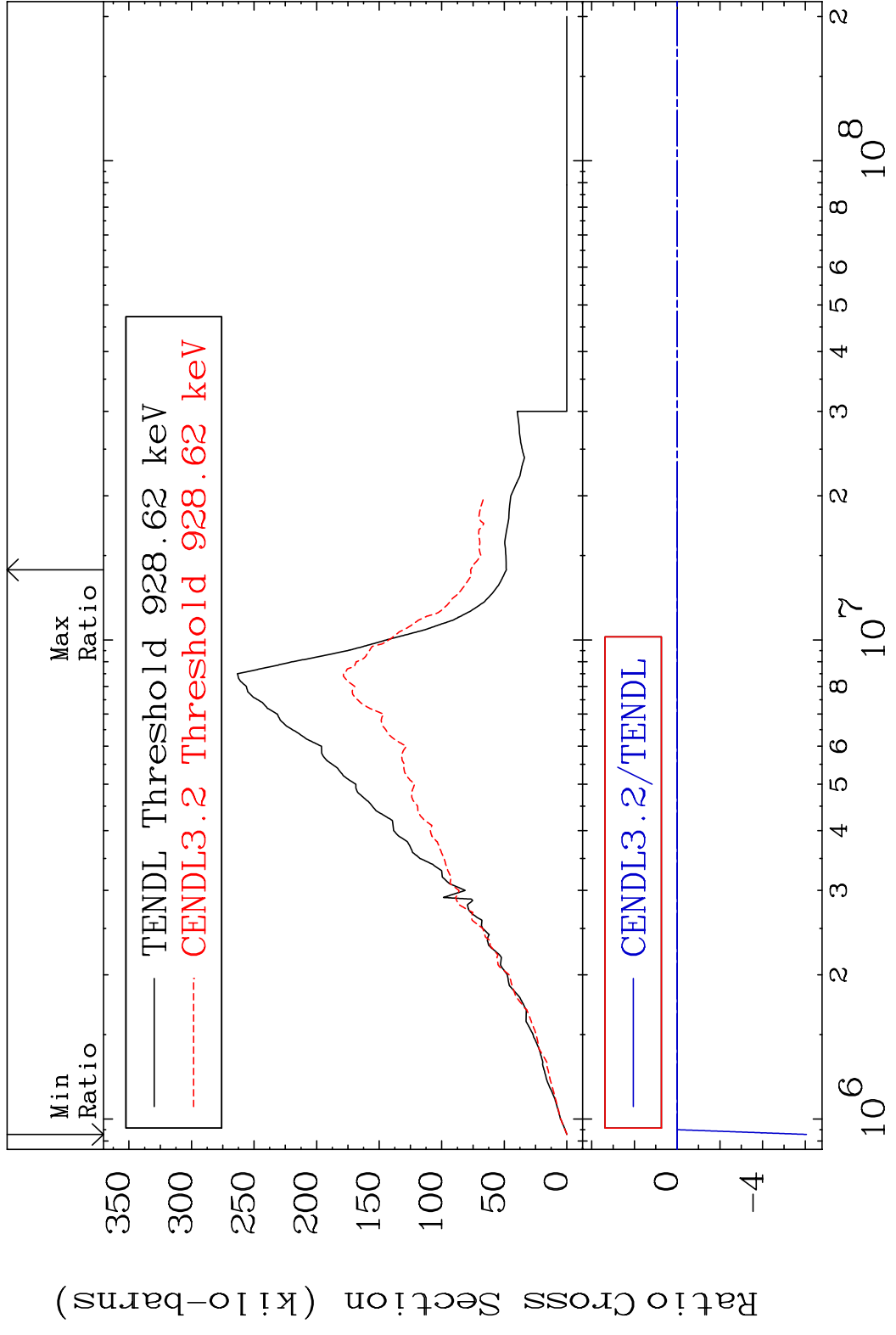
40-Zr-94

MAT 4037 Kerma non-elastic (all but mt2) 40-Zr-94
 Cross Section -81.54 To 9999. %



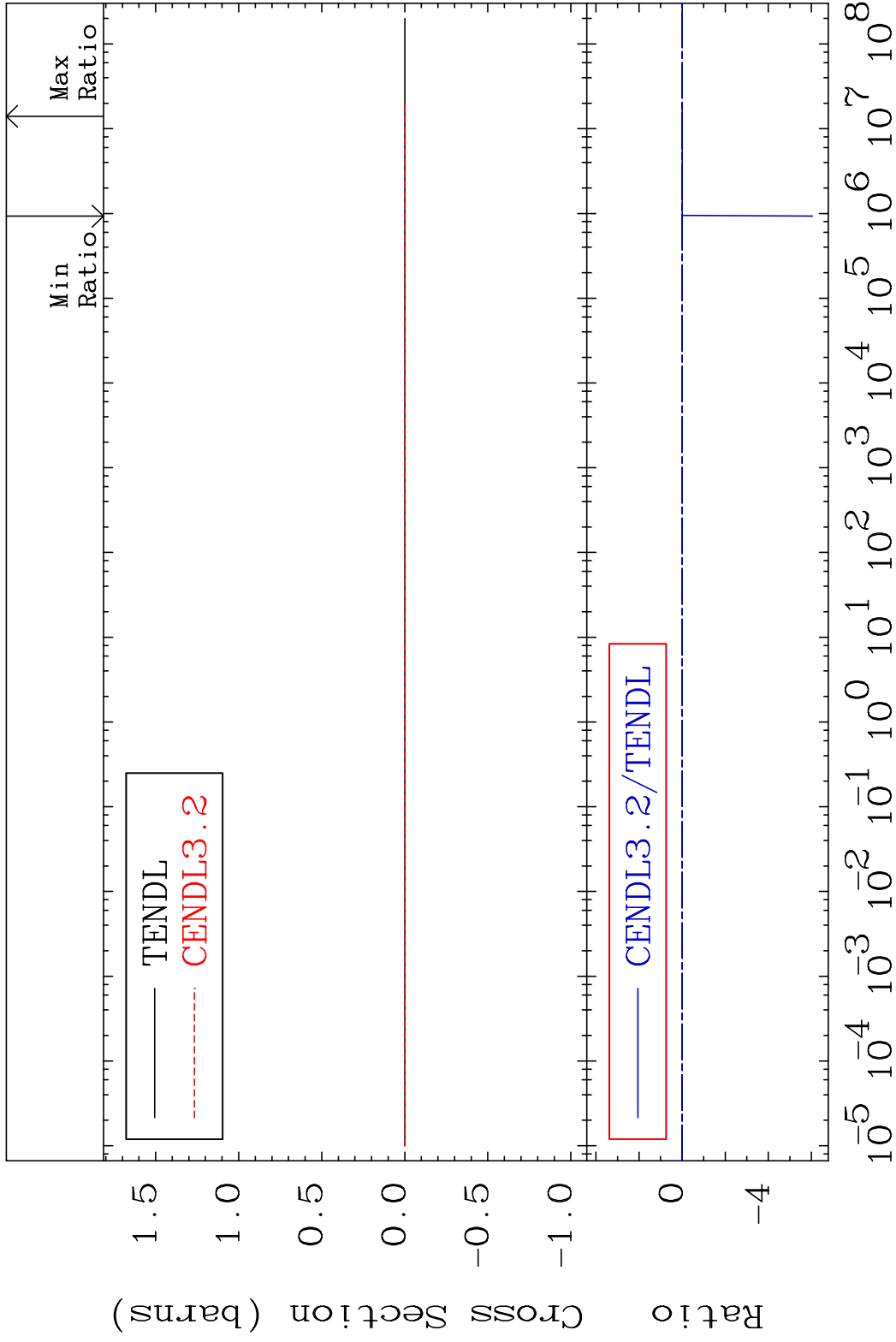
36 Incident Energy (eV) 40-Zr-94

MAT 4037 Kerma inelastic (mt51-91) 40-Zr-94
 Cross Section -9999. To 58.92 %



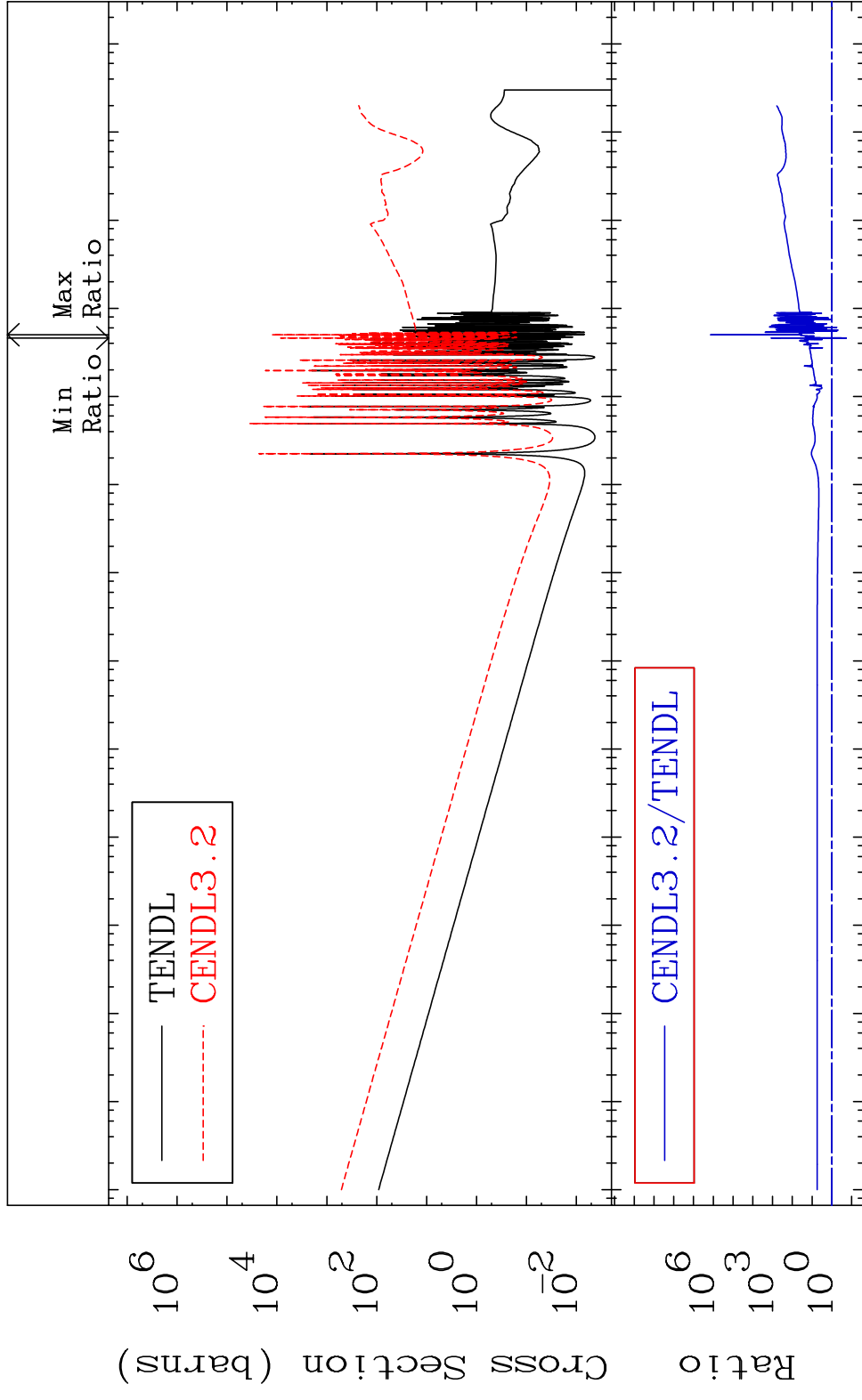
37 Incident Energy (eV) 40-Zr-94

MAT 4037 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-94
 Cross Section -9999. To 58.92 %



MAT 4037

Kerma capture (mt102) 40-Zr-94
Cross Section -81.54 To 9999. %



39

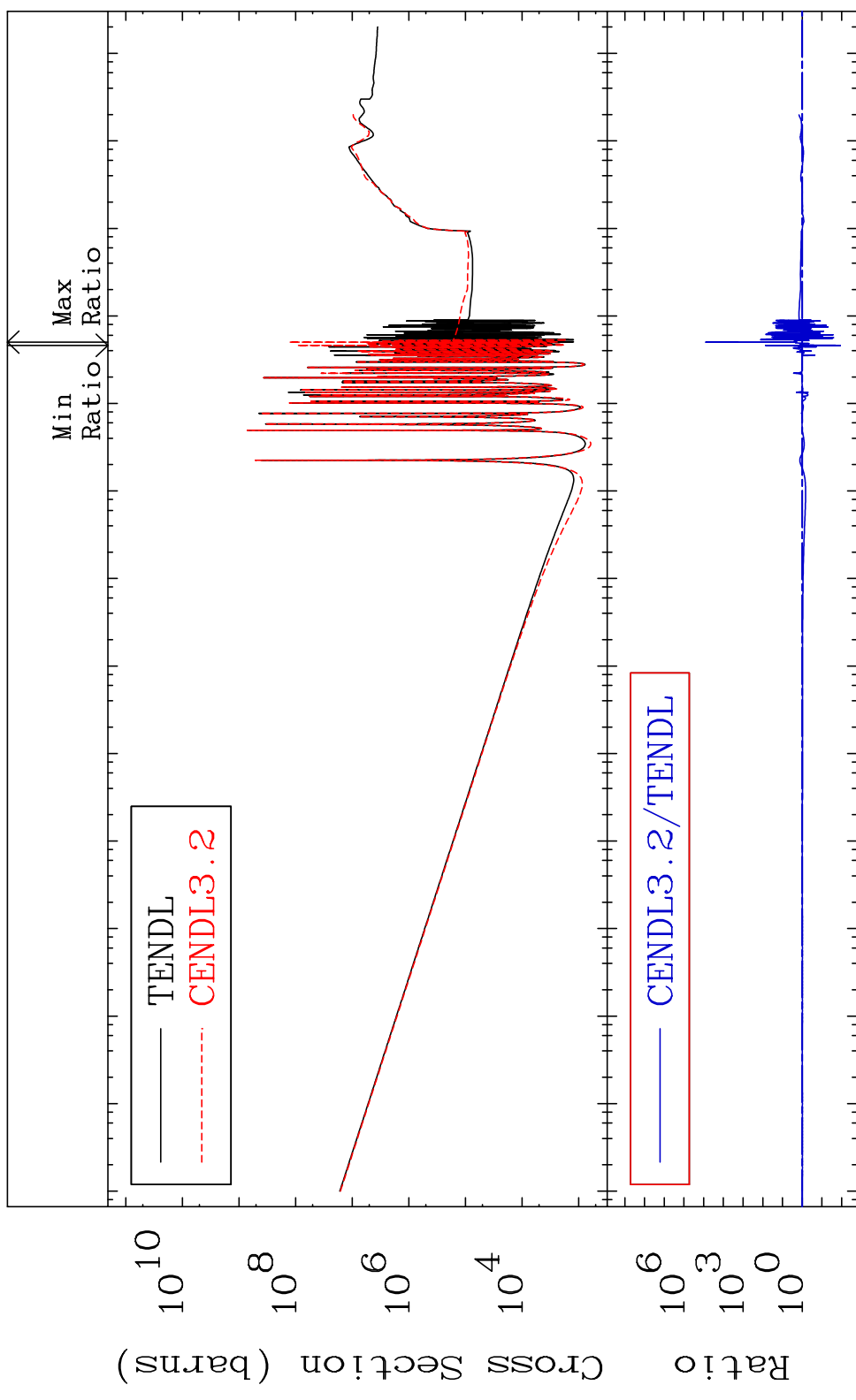
Incident Energy (eV) 40-Zr-94

MAT 4037

Total photon (eV-barns)

40-Zr-94

Cross Section -98.85 To 9999. %

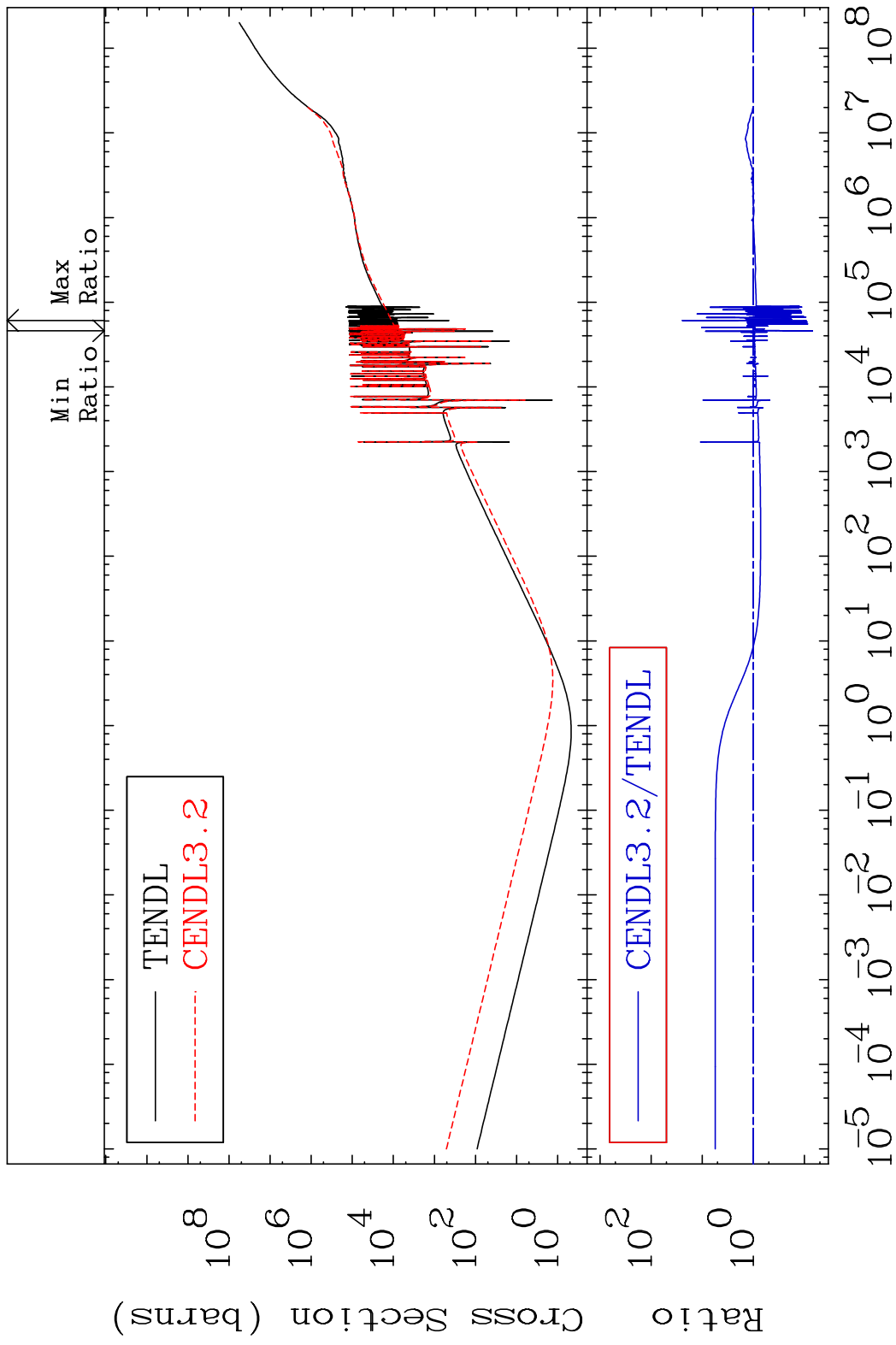


40

Incident Energy (eV)

40-Zr-94

MAT 4037 Total kinematic kerma (high limit) 40-Zr-94
 Cross Section -93.05 To 2349. %

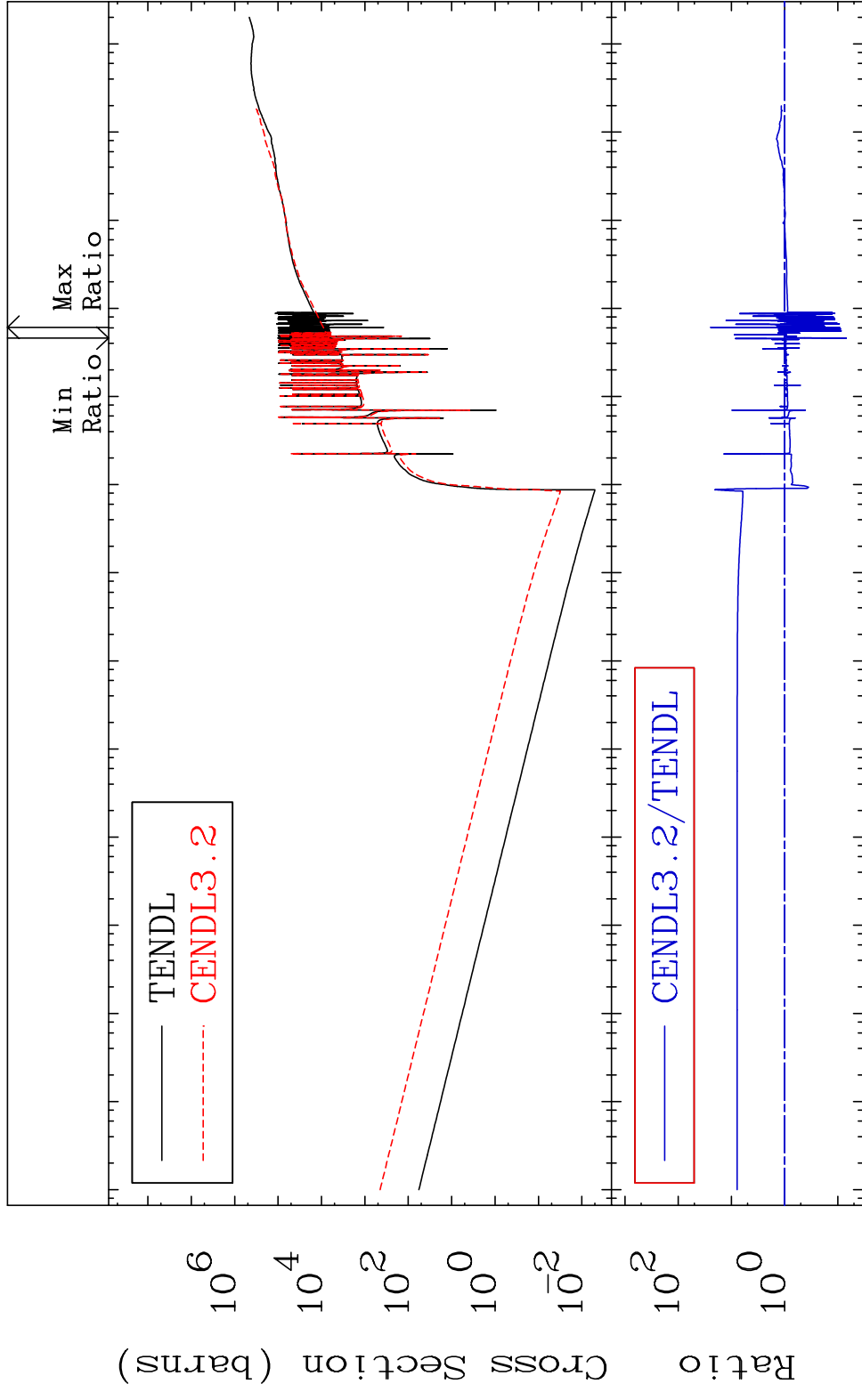


MAT 4037

Dpa total (eV-barns)

40-Zr-94

Cross Section -93.07 To 2354. %



42

Incident Energy (eV)

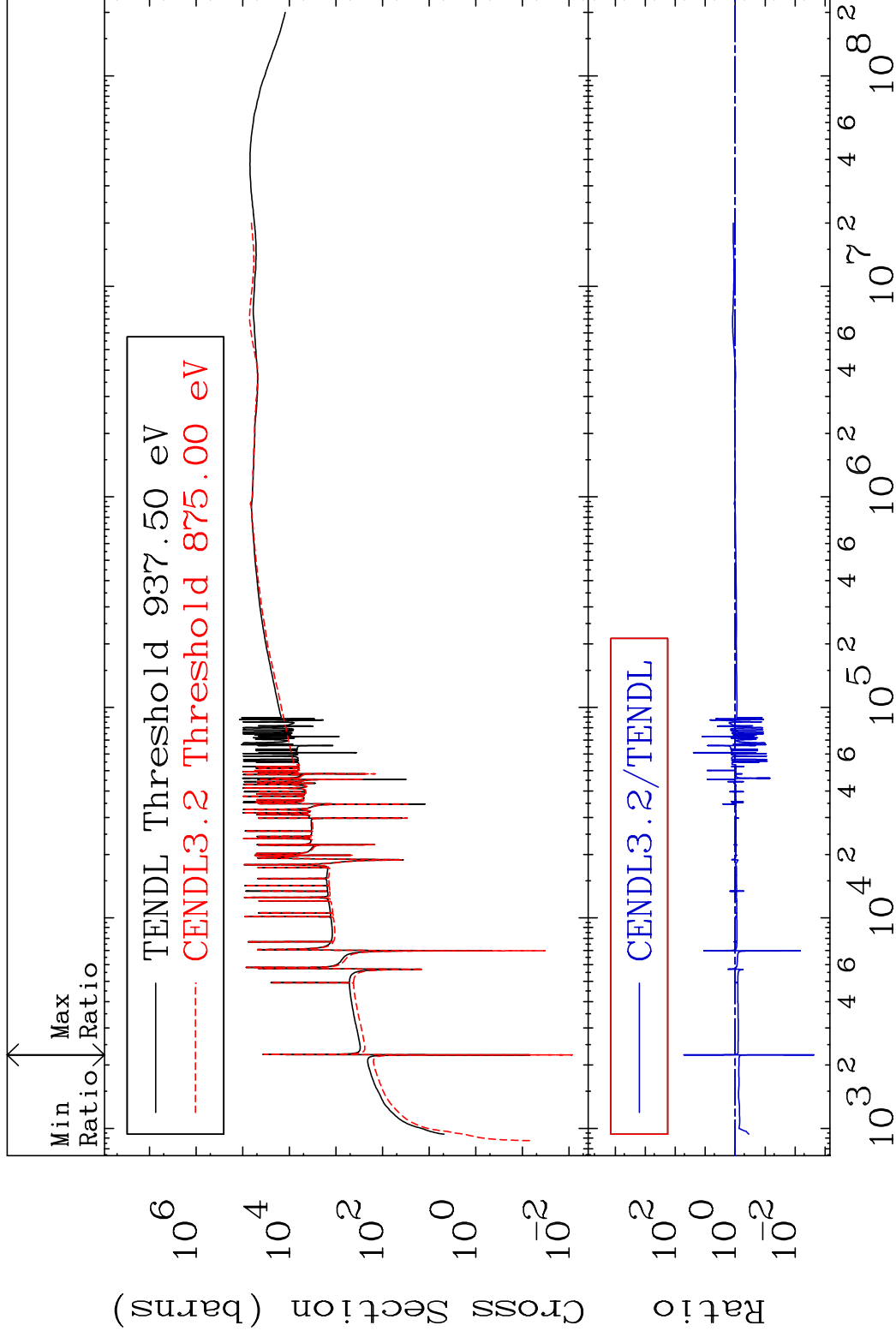
40-Zr-94

MAT 4037

Dpa elastic (mt2)

40-Zr-94

Cross Section -99.777 To 5149. %

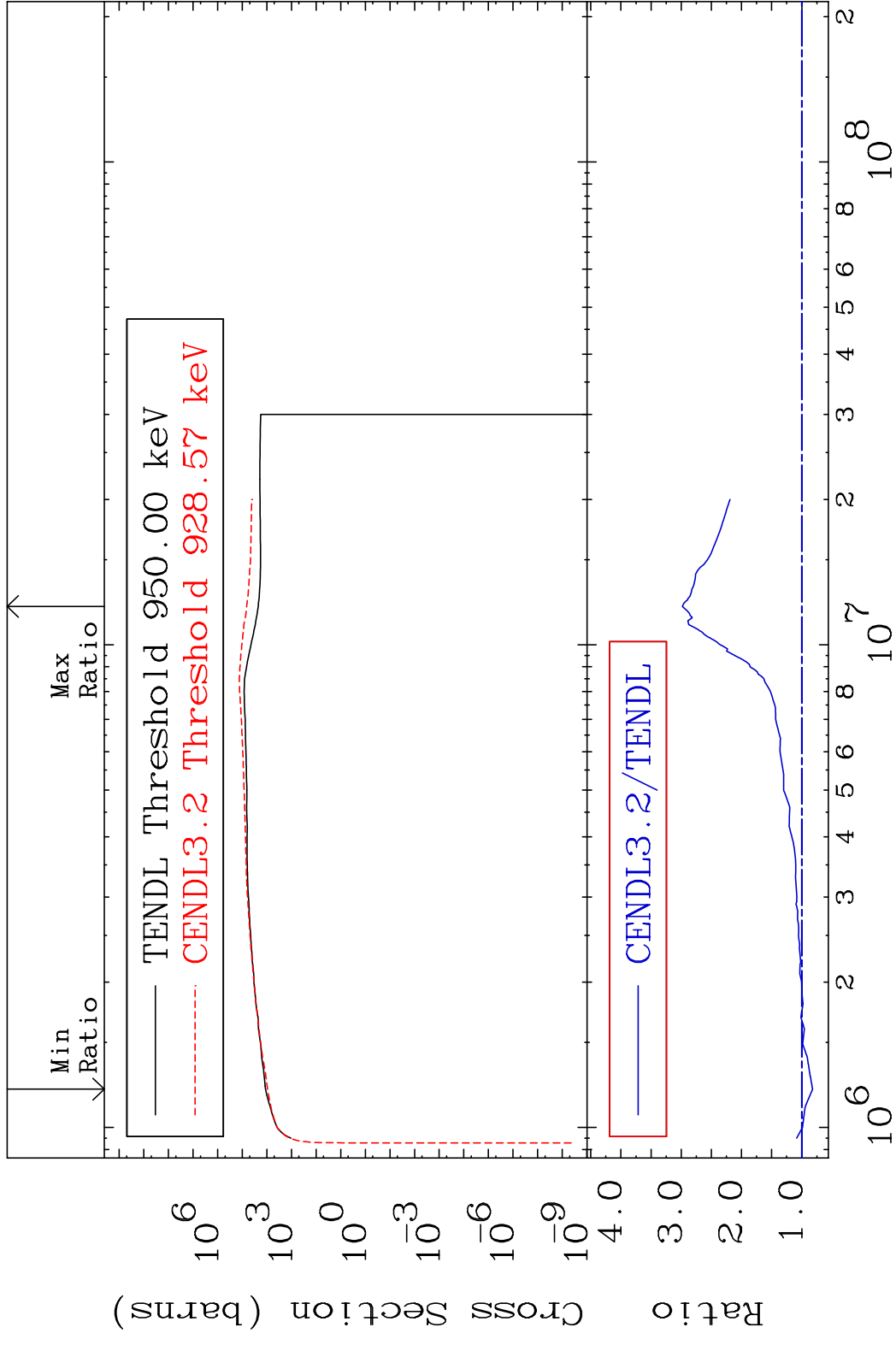


43

Incident Energy (eV)

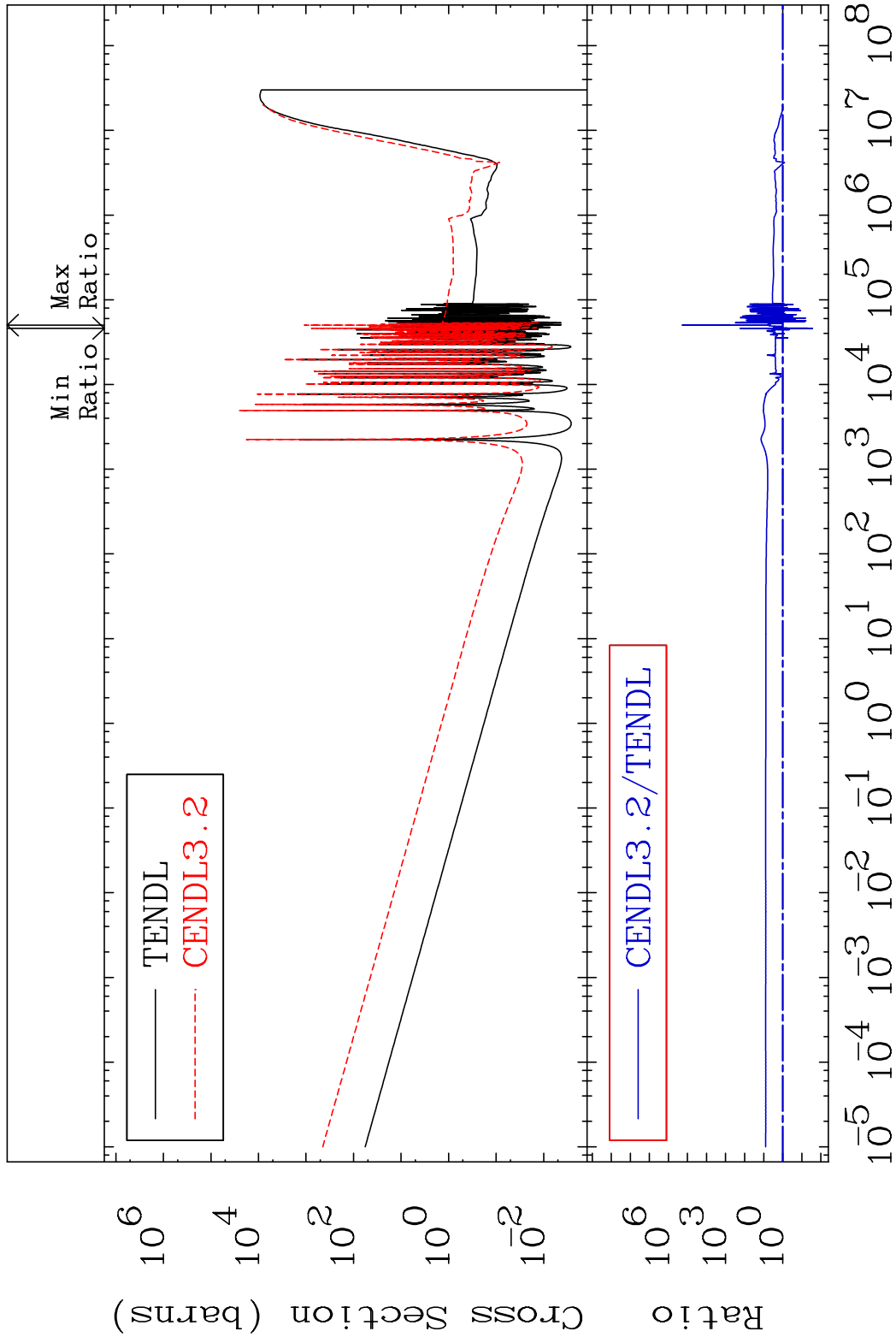
40-Zr-94

MAT 4037 Dpa inelastic (mt51-91) 40-Zr-94
 Cross Section -17.88 To 198.1 %



44 Incident Energy (eV) 40-Zr-94

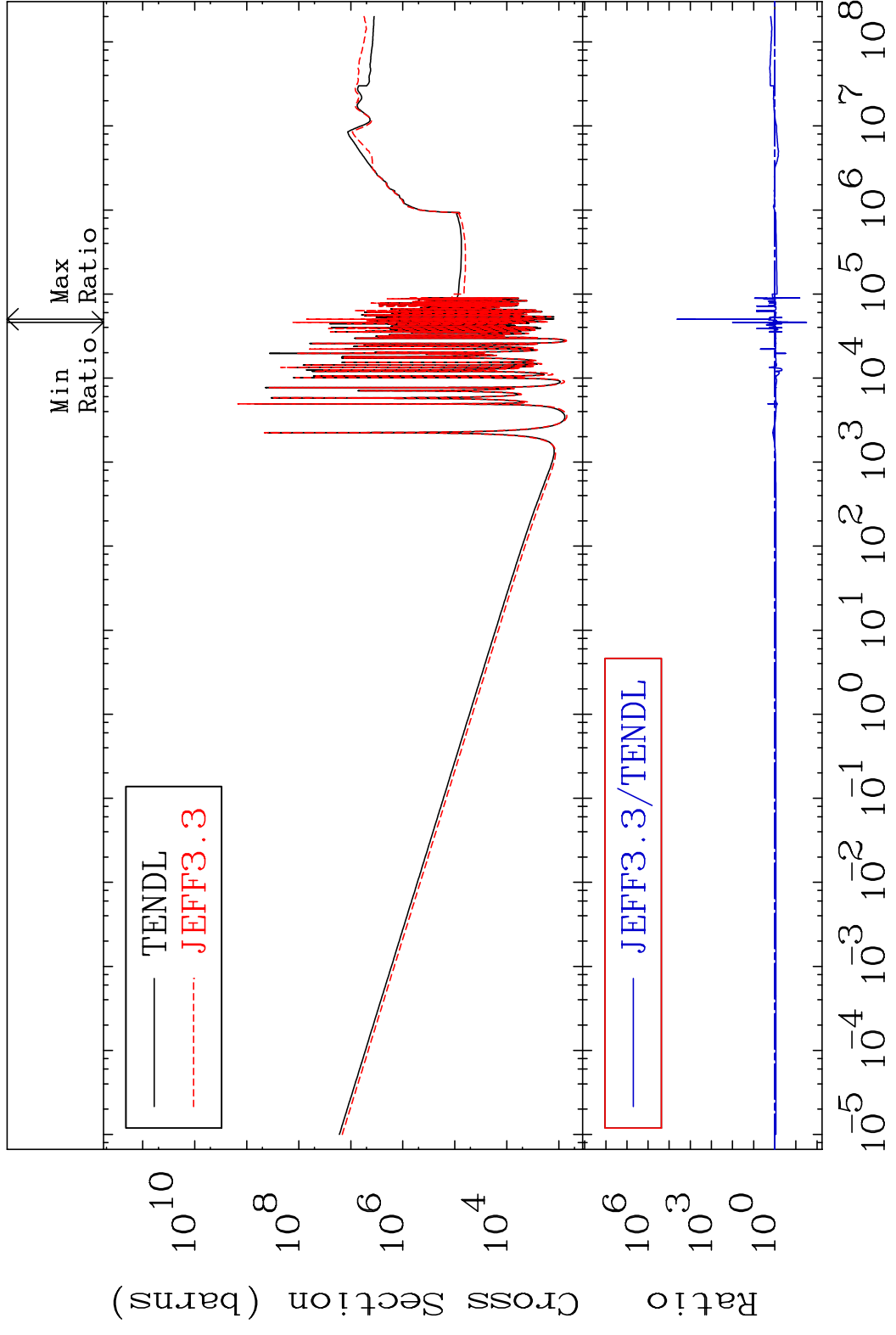
MAT 4037 Dpa disappearance (mt102 -120) 40-Zr-94
 Cross Section -97.27 To 9999. %



45 Incident Energy (eV) 40-Zr-94

MAT 4037

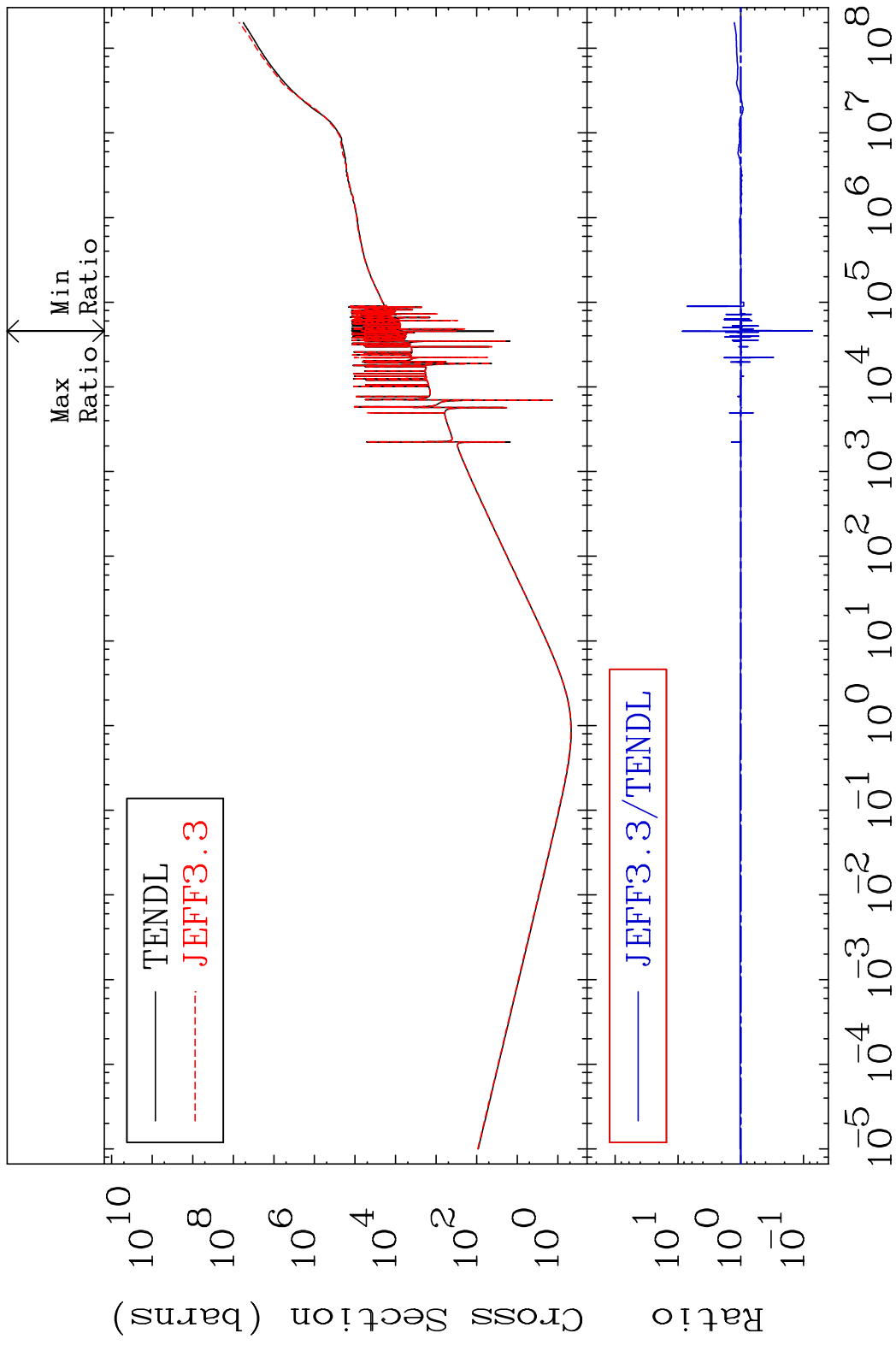
Total photon (eV-barns) 40-Zr-94
Cross Section -96.83 To 9999. %



46

Incident Energy (eV) 40-Zr-94

MAT 4037 Total kinematic kerma (high limit) 40-Zr-94
 Cross Section -92.82 To 750.9 %

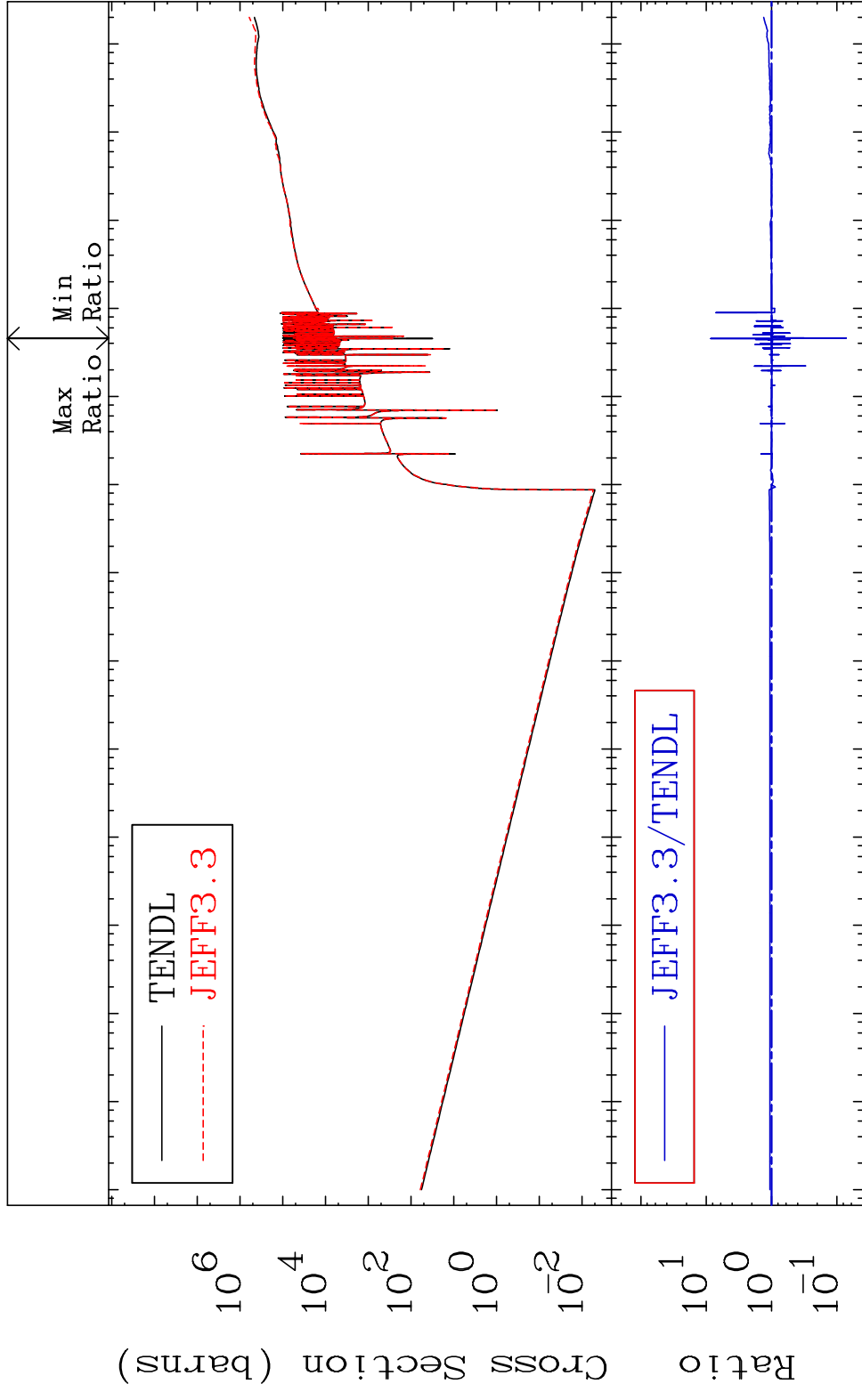


MAT 4037

Dpa total (eV-barns)

40-Zr-94

Cross Section -92.82 To 753.4 %



48

Incident Energy (eV)

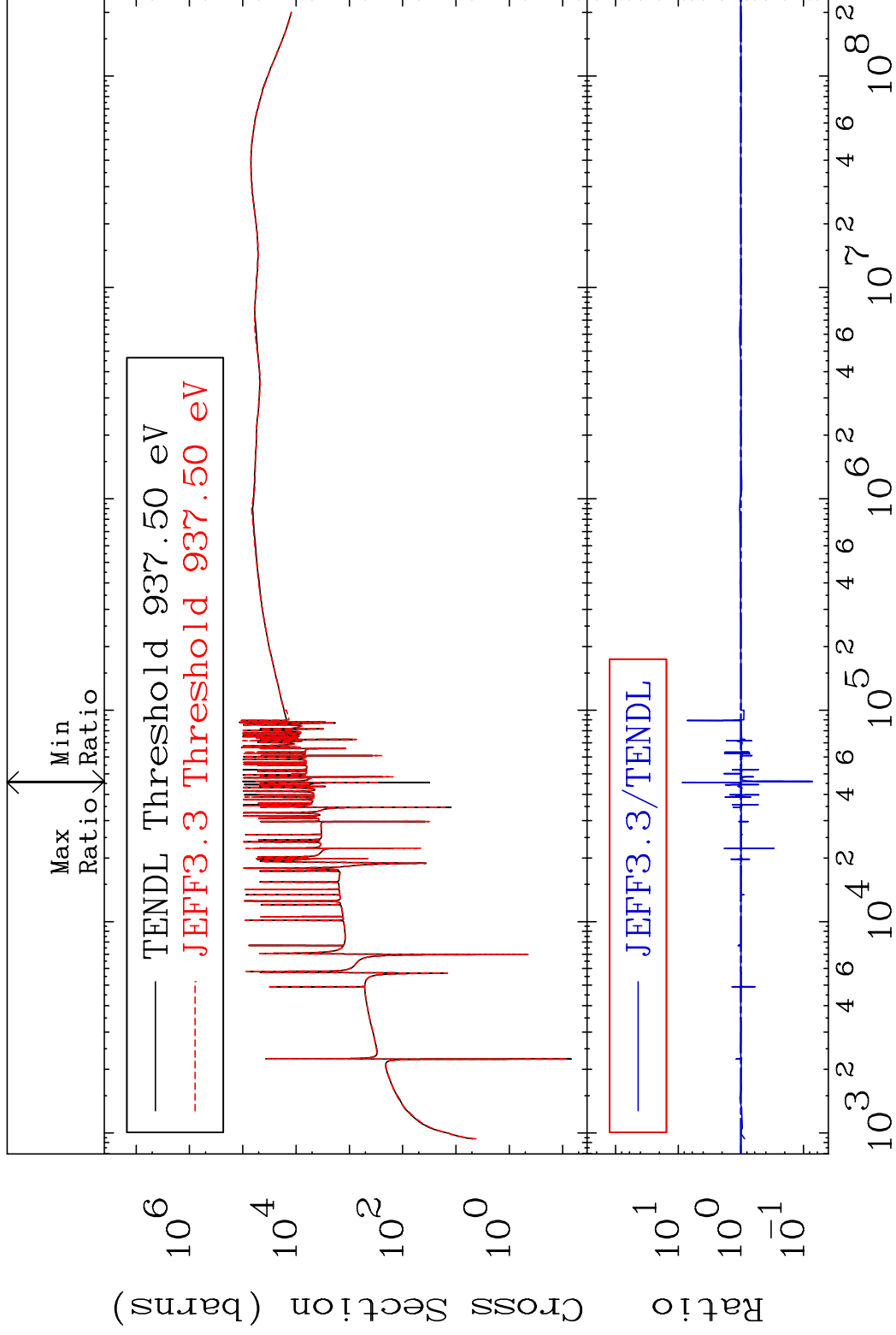
40-Zr-94

MAT 4037

Dpa elastic (mt2)

40-Zr-94

Cross Section -92.82 To 759.2 %

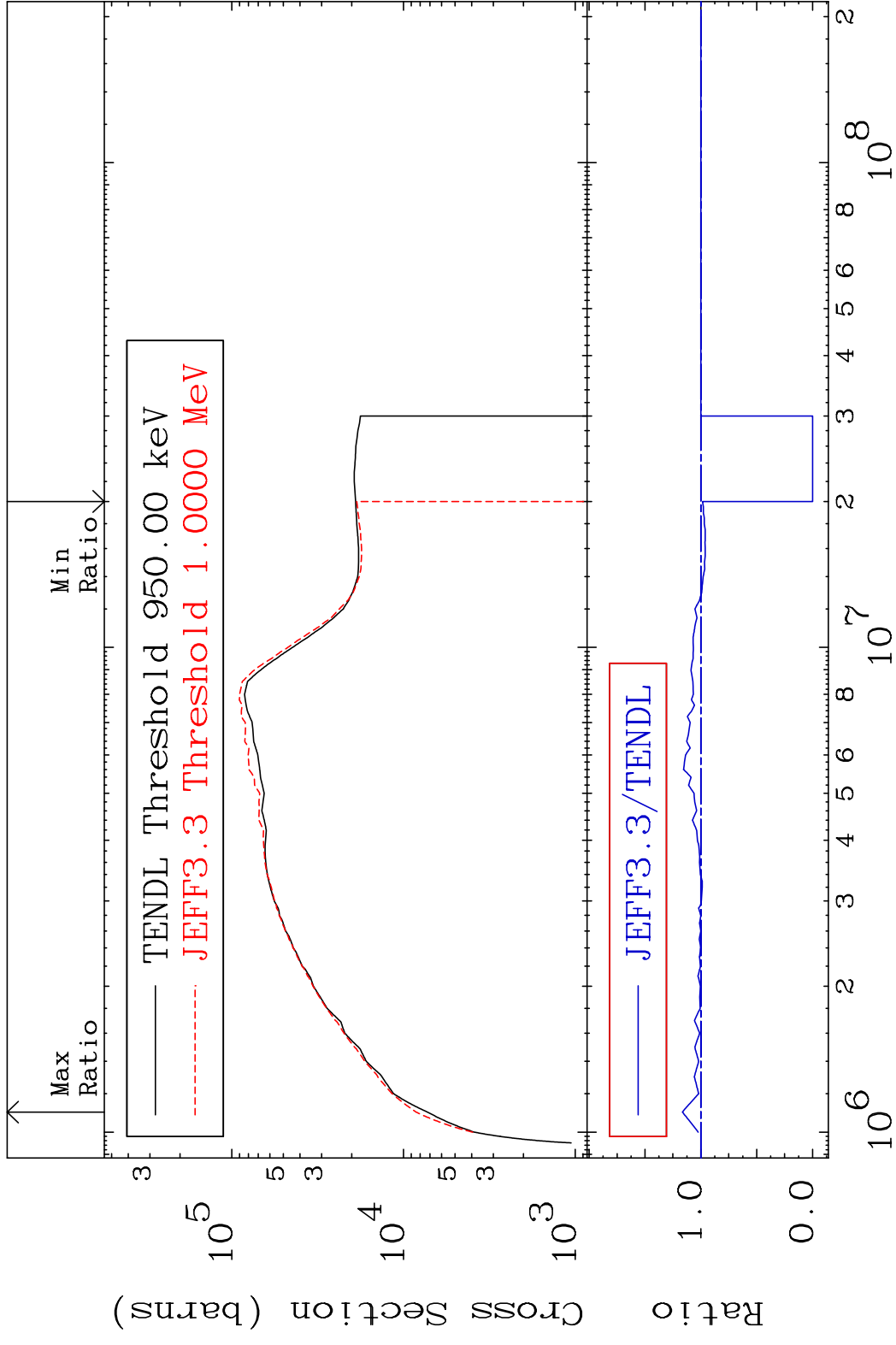


49

Incident Energy (eV)

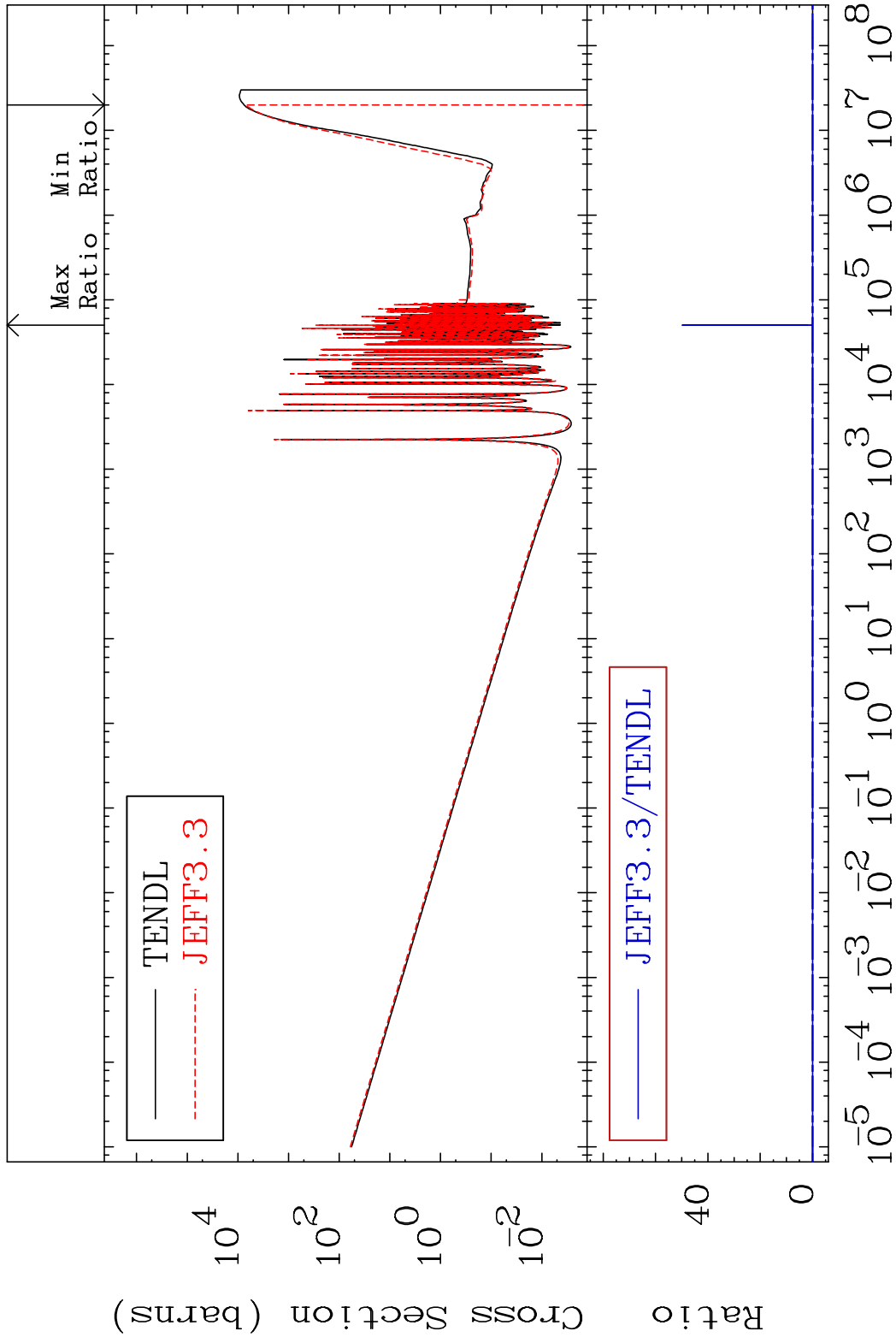
40-Zr-94

MAT 4037 Dpa inelastic (mt51-91) 40-Zr-94
 Cross Section -100.0 To 16.56 %



50 Incident Energy (eV) 40-Zr-94

MAT 4037 Dpa disappearance (mt102 -120) 40-Zr-94
 Cross Section -100.0 To 9999. %



51 Incident Energy (eV) 40-Zr-94