

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

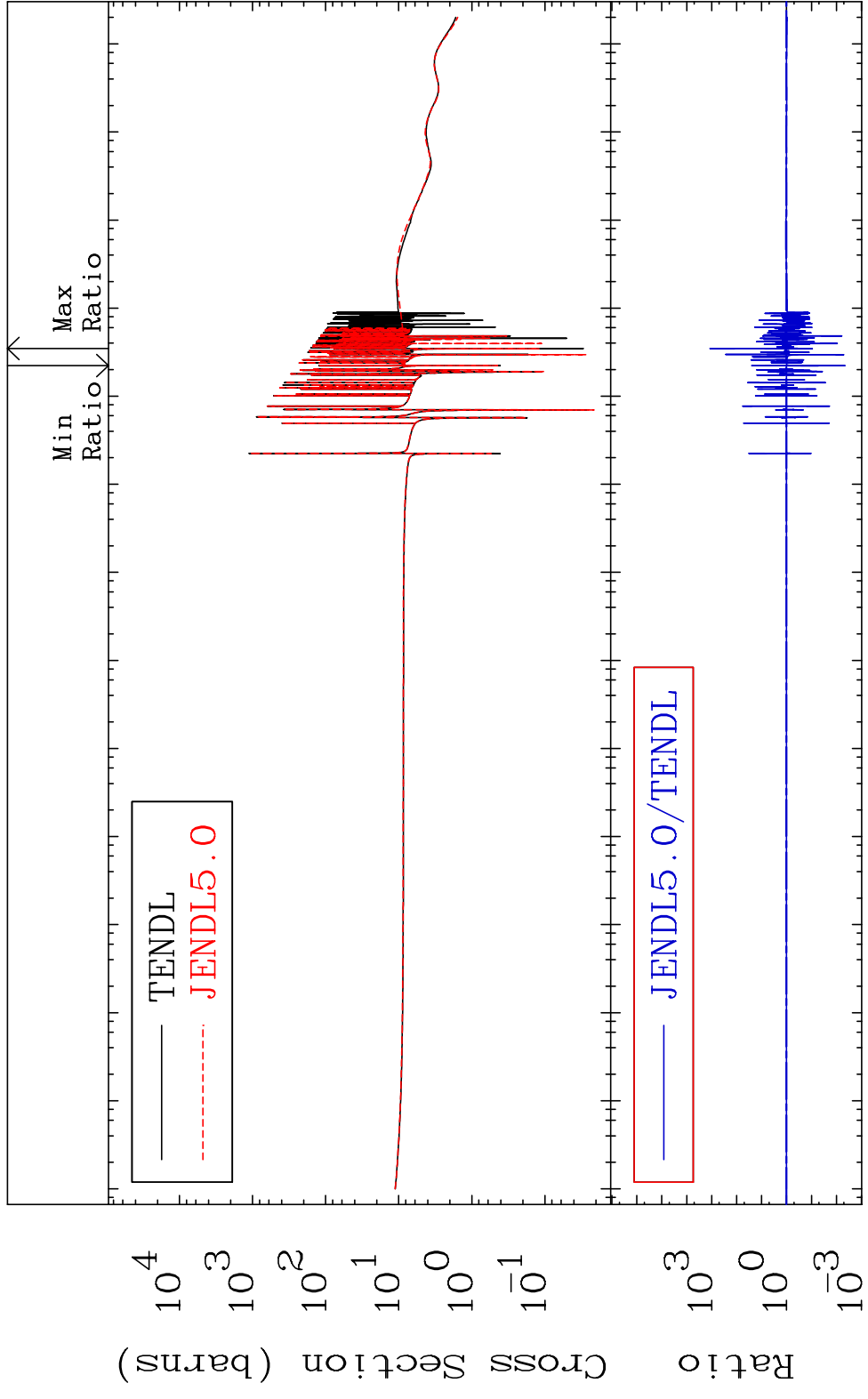
MAT 4037

Total

40-Zr-94

Cross Section

-99.56 To 9999. %



1

Incident Energy (eV)

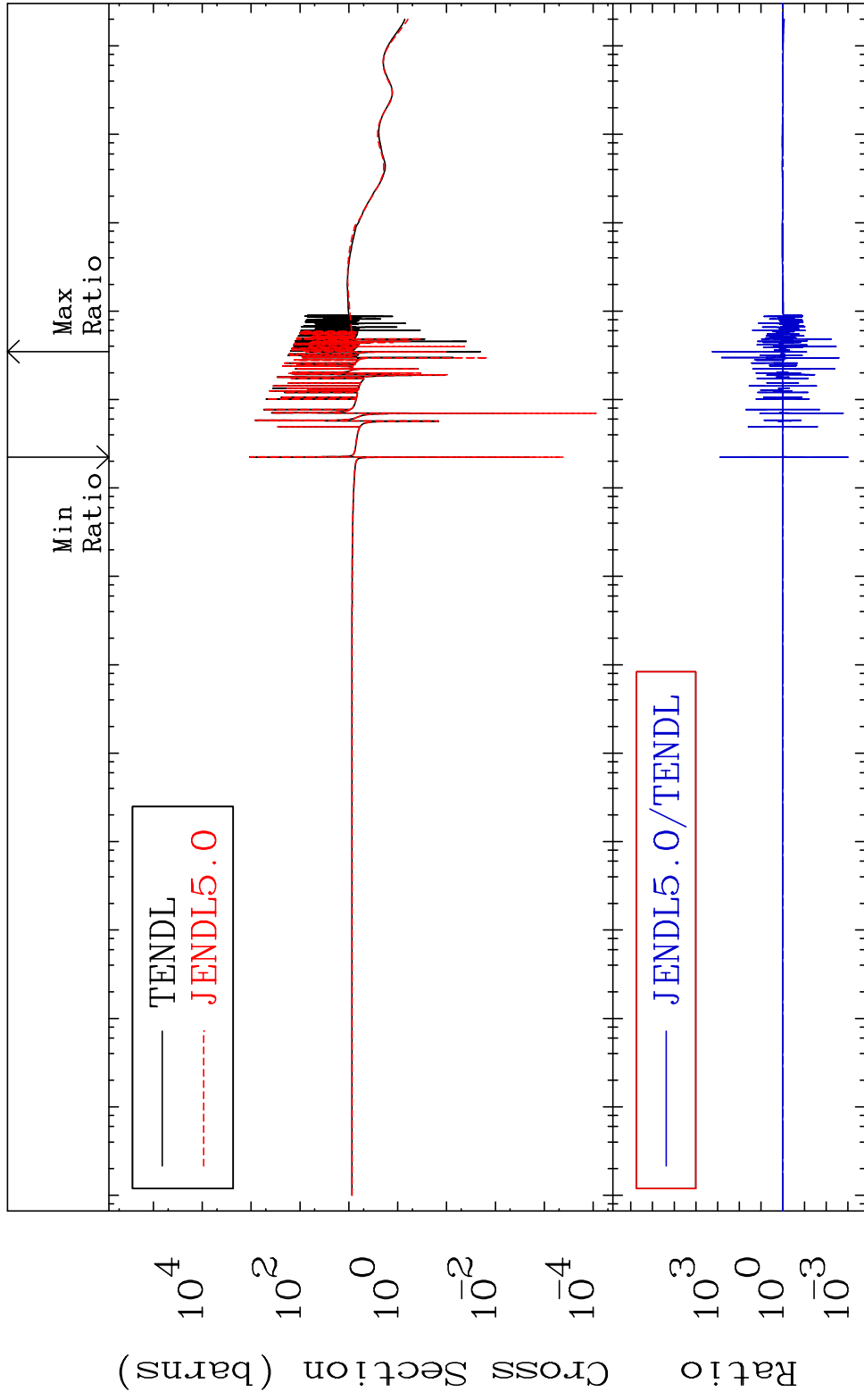
40-Zr-94

MAT 4037

Elastic

40-Zr-94

Cross Section -99.90 To 9999. %



2

Incident Energy (eV)

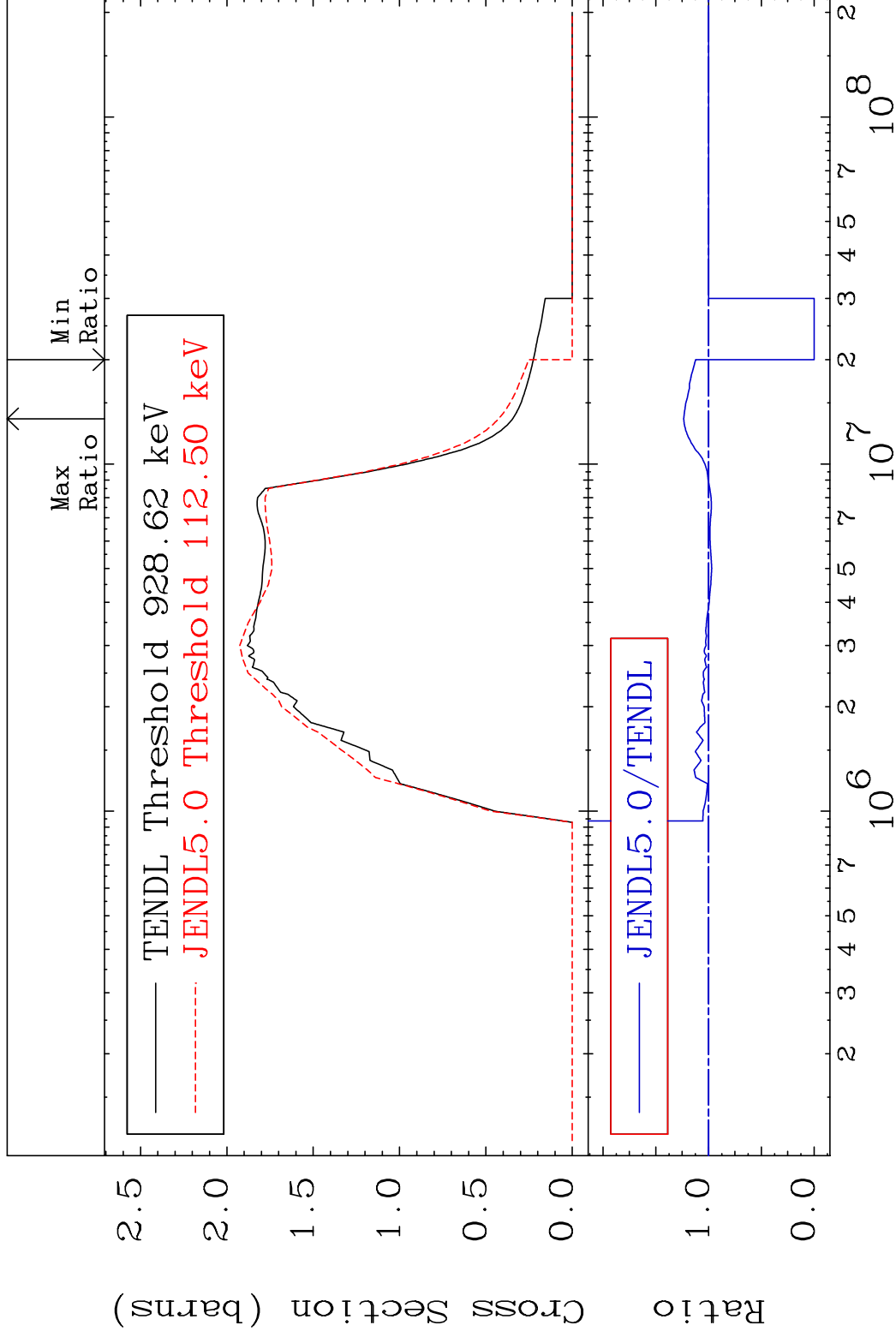
40-Zr-94

MAT 4037

Inelastic

40-Zr-94

Cross Section -100.0 To 23.60 %

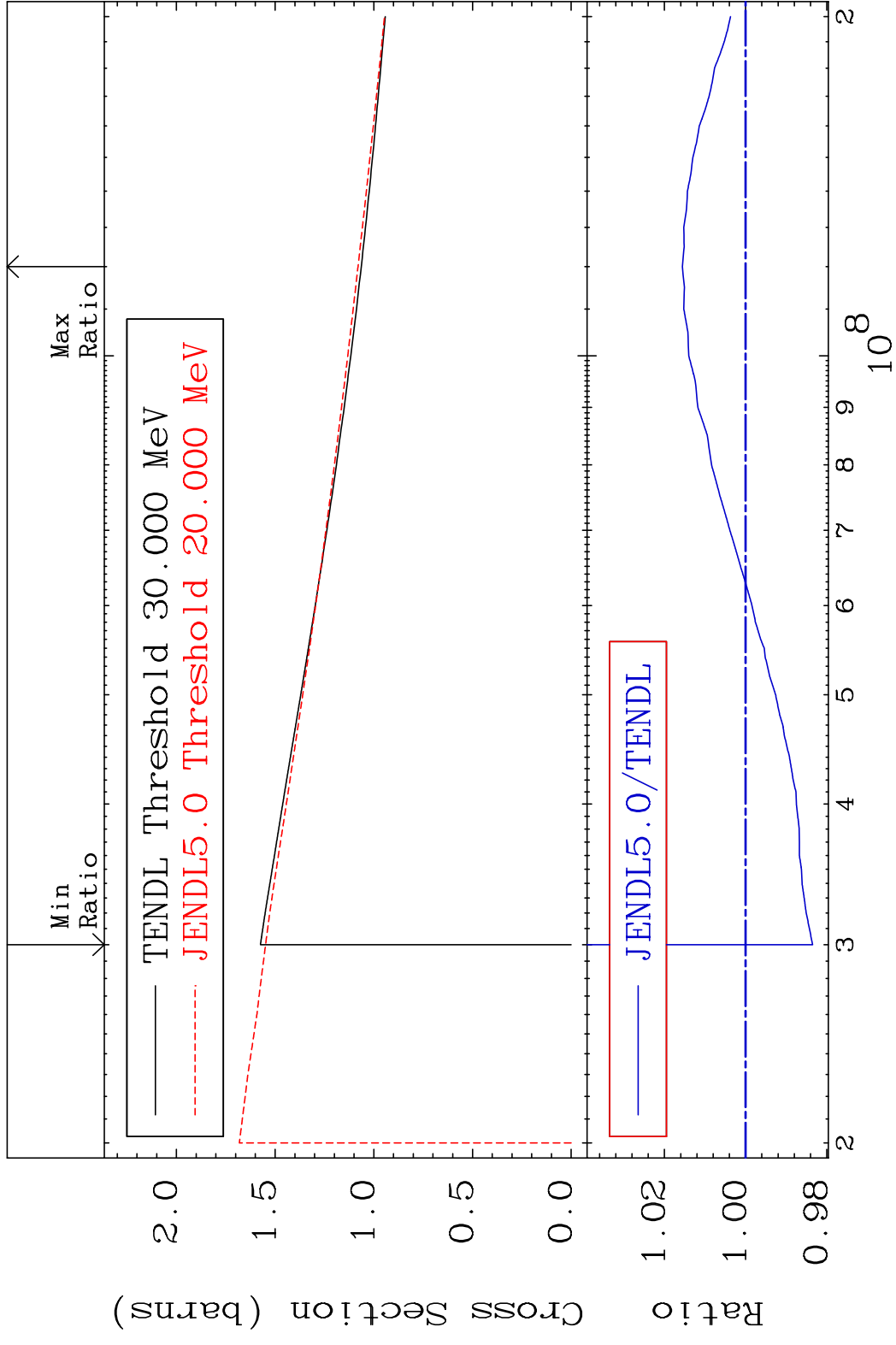


3

Incident Energy (eV)

40-Zr-94

MAT 4037 (n, remainder) 40-Zr-94  
 Cross Section -1.650 To 1.559 %



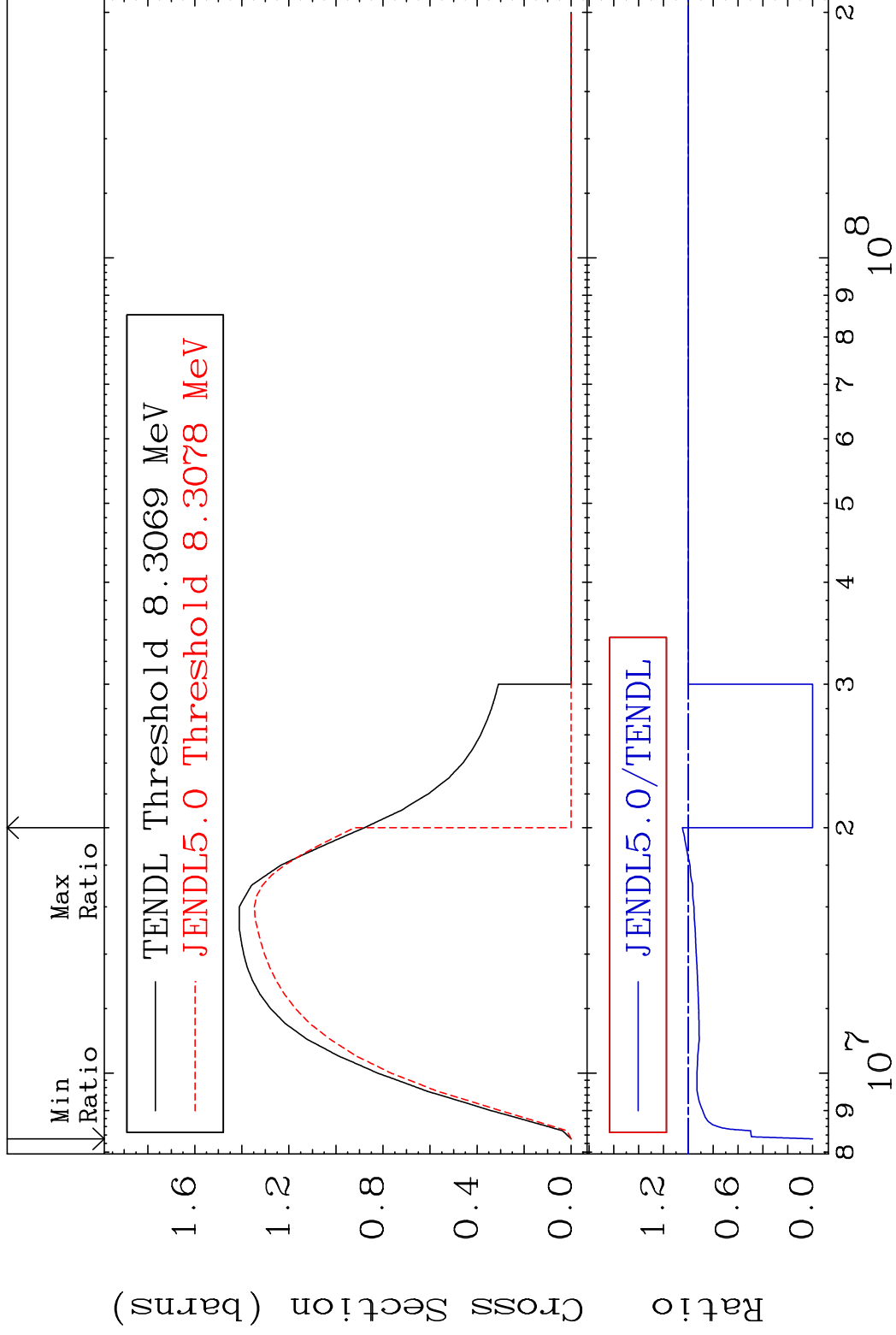
4 Incident Energy (eV) 40-Zr-94

MAT 4037

(n,2n)

40-Zr-94

Cross Section -100.0 To 4.836 %



5

Incident Energy (eV)

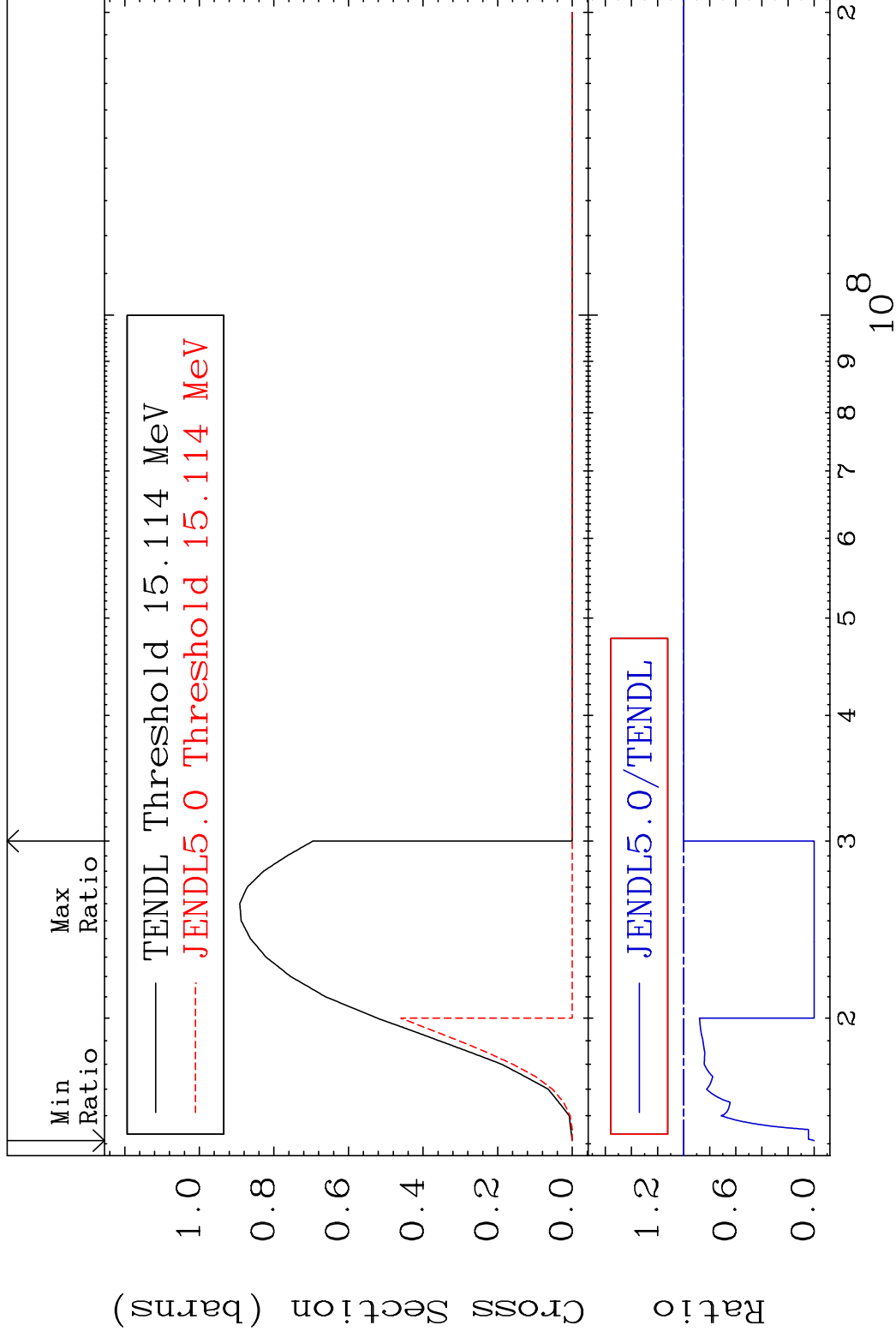
40-Zr-94

MAT 4037

(n,3n)

40-Zr-94

Cross Section -100.0 To 0.000 %



6

Incident Energy (eV)

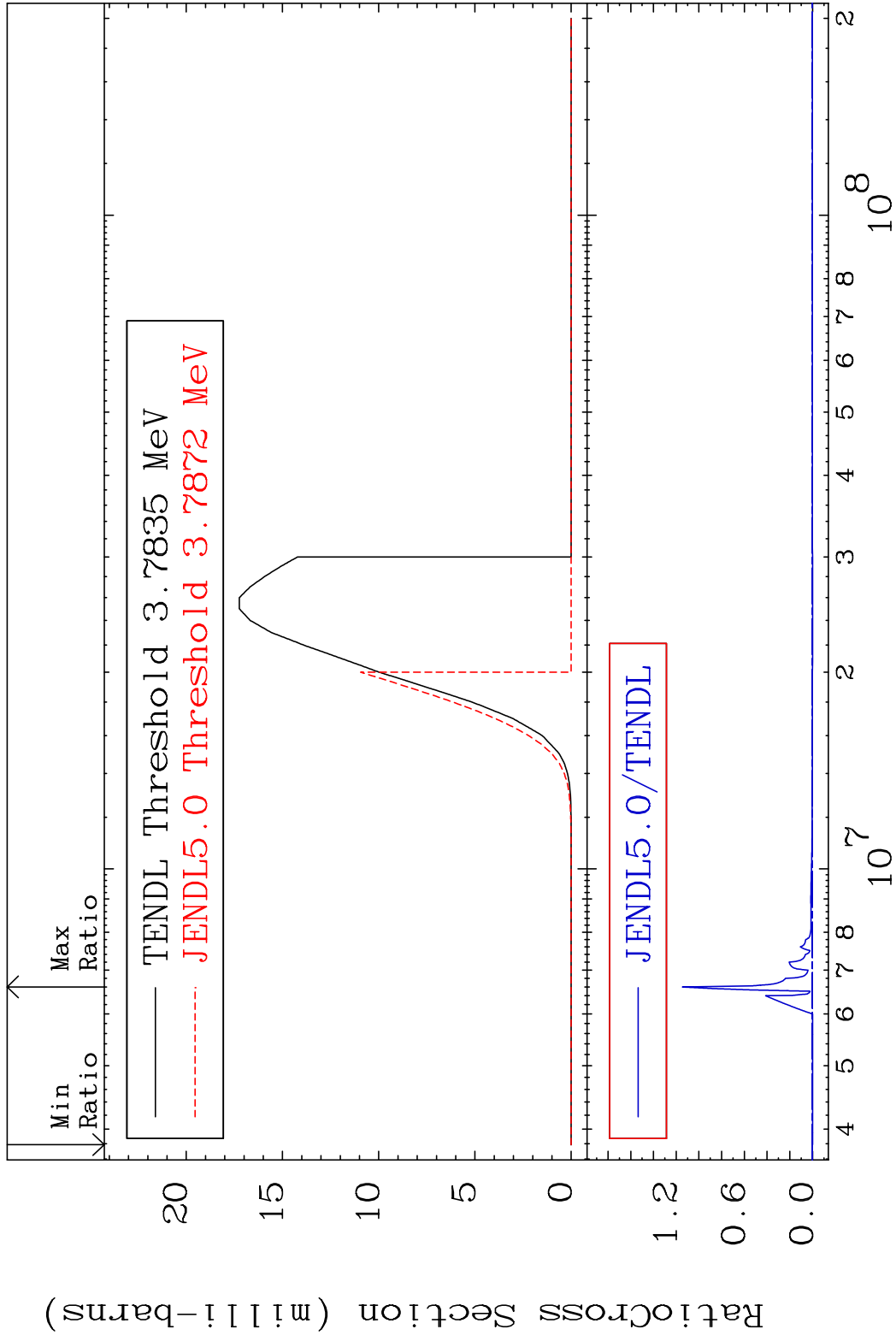
40-Zr-94

MAT 4037

(n, n')  $\alpha$

40-Zr-94

Cross Section -100.0 To 9999. %



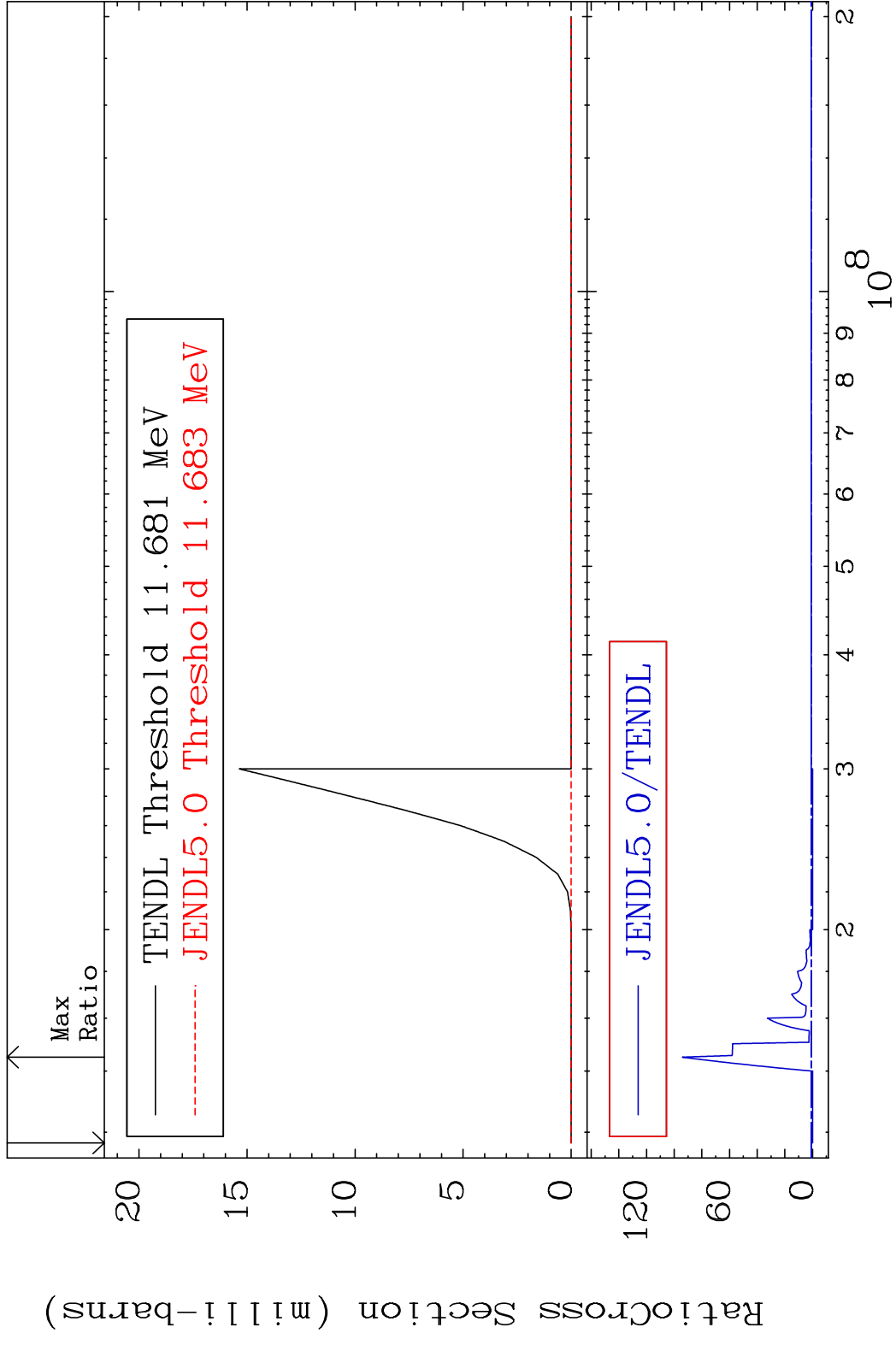
7

Incident Energy (eV)

40-Zr-94

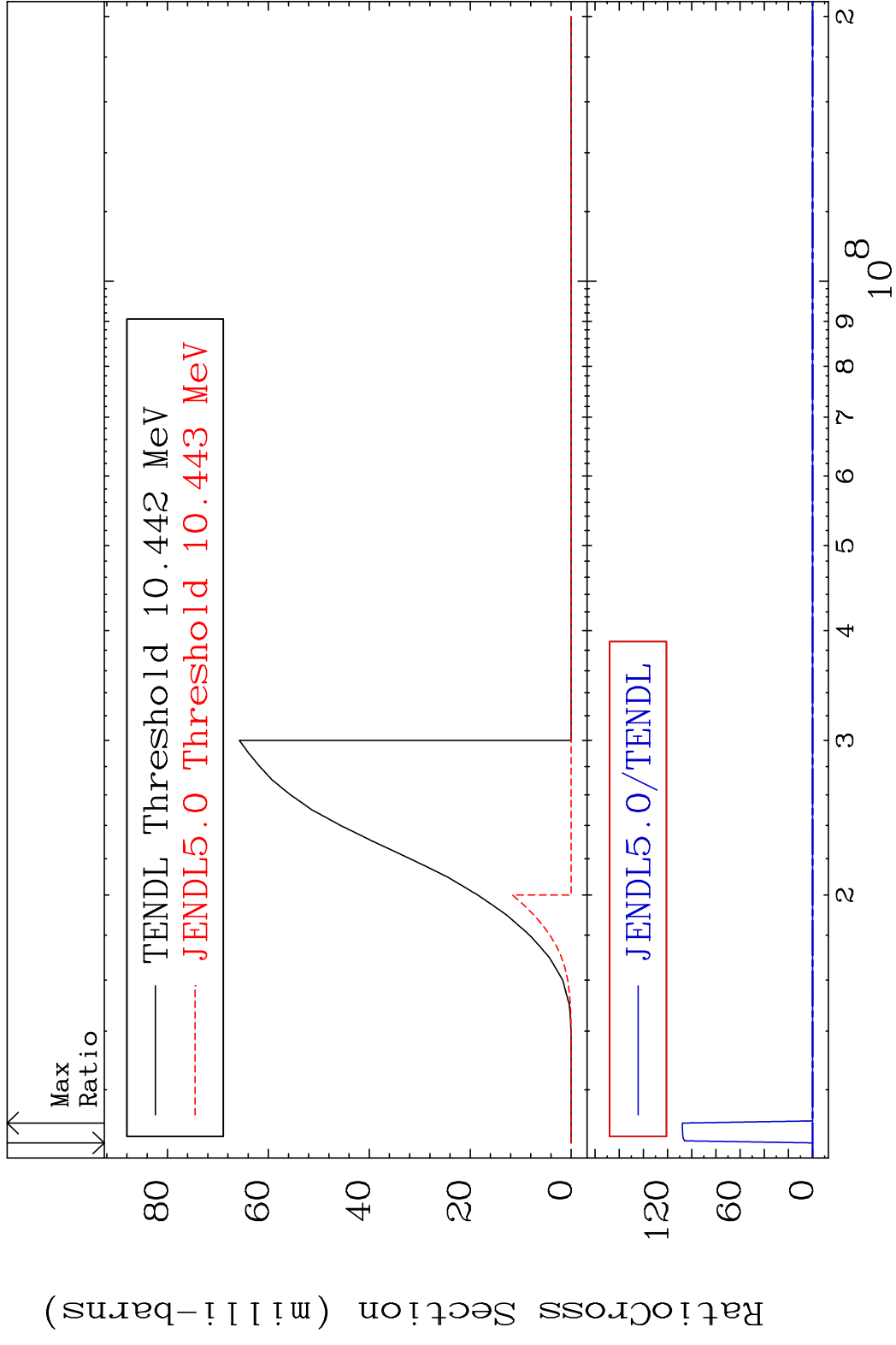


MAT 4037 (n,2n)  $\alpha$  40-Zr-94  
 Cross Section -100.0 To 9311. %



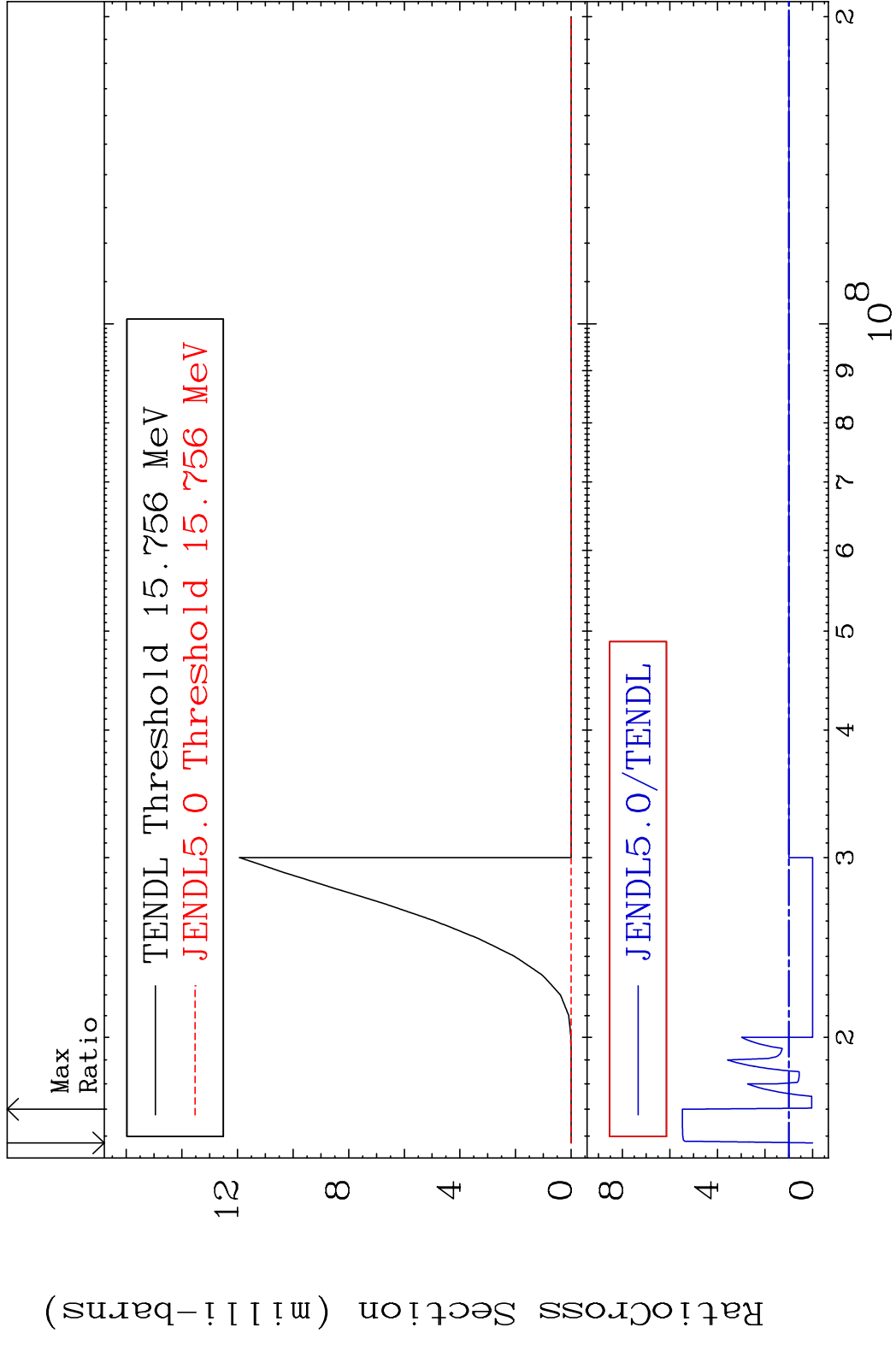
8 Incident Energy (eV) 40-Zr-94

MAT 4037 (n, n') p 40-Zr-94  
 Cross Section -100.0 To 9999. %



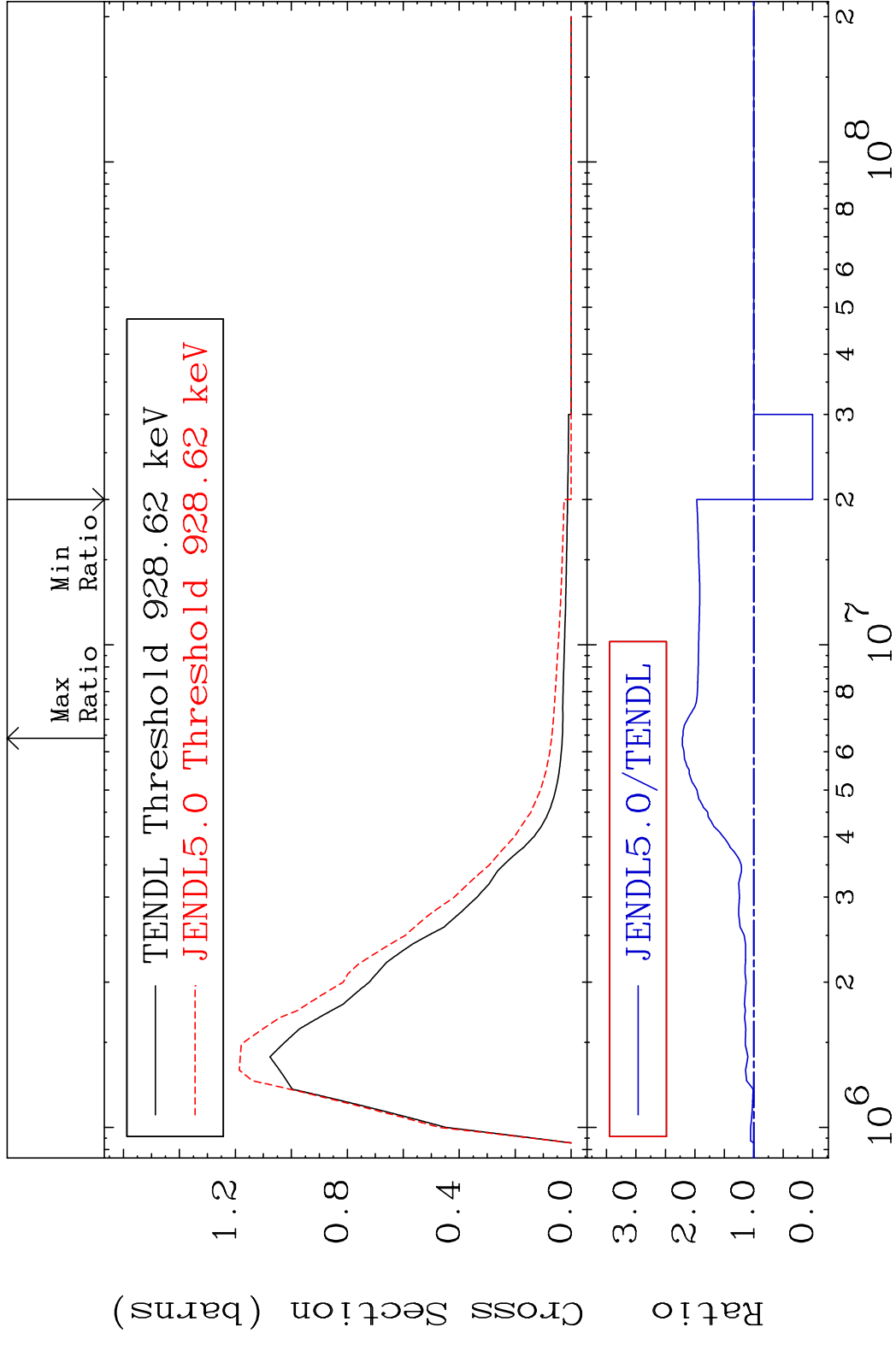
9 Incident Energy (eV) 40-Zr-94

MAT 4037 (n, n') d 40-Zr-94  
 Cross Section -100.0 To 447.5 %



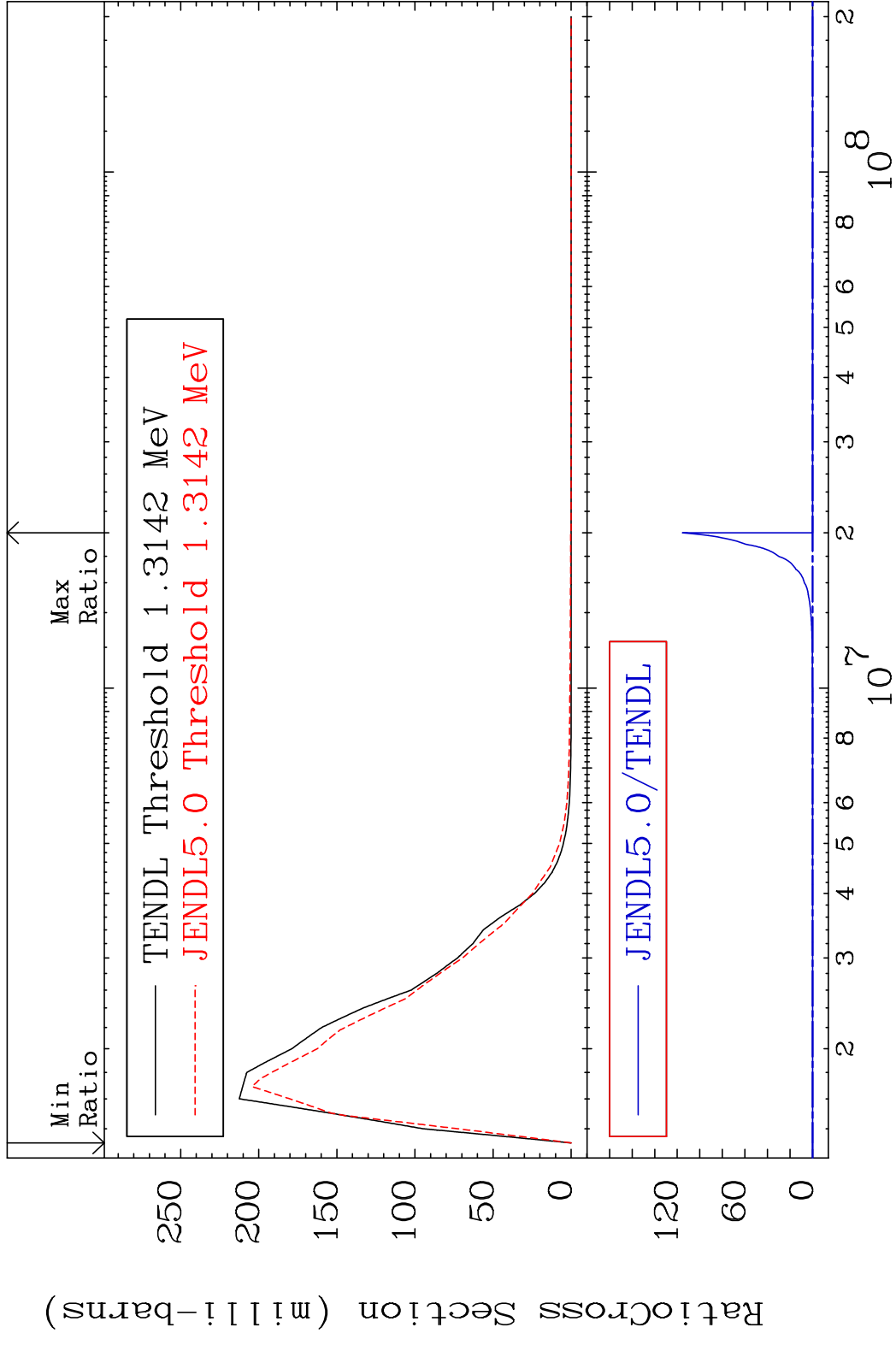
10 Incident Energy (eV) 40-Zr-94

MAT 4037 MT= 51 (n, n') Level 40-Zr-94  
 Cross Section -100.0 To 121.2 %

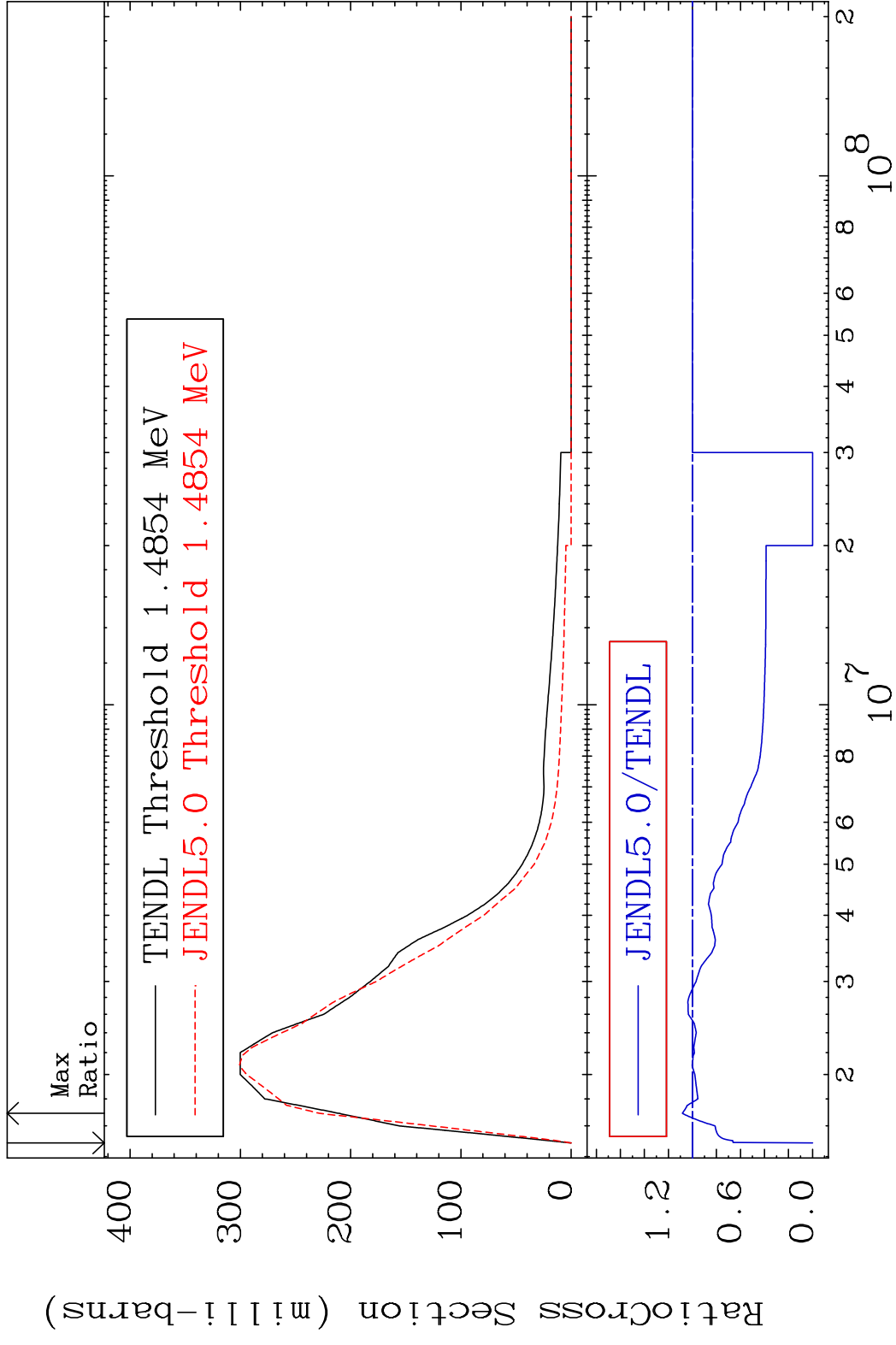


11 Incident Energy (eV) 40-Zr-94

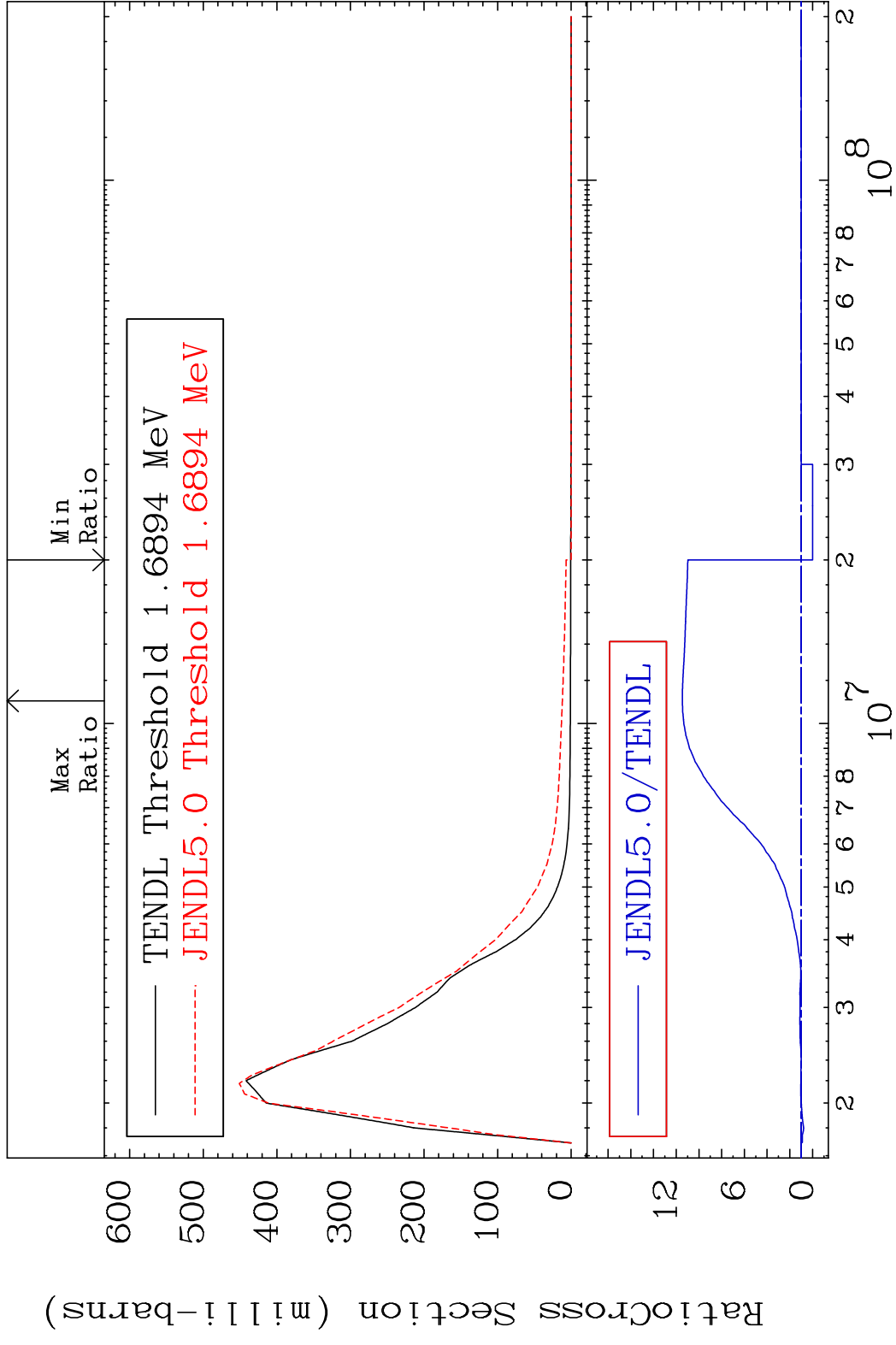
MAT 4037 MT= 52 (n, n') Level 40-Zr-94  
 Cross Section -100.0 To 9999. %



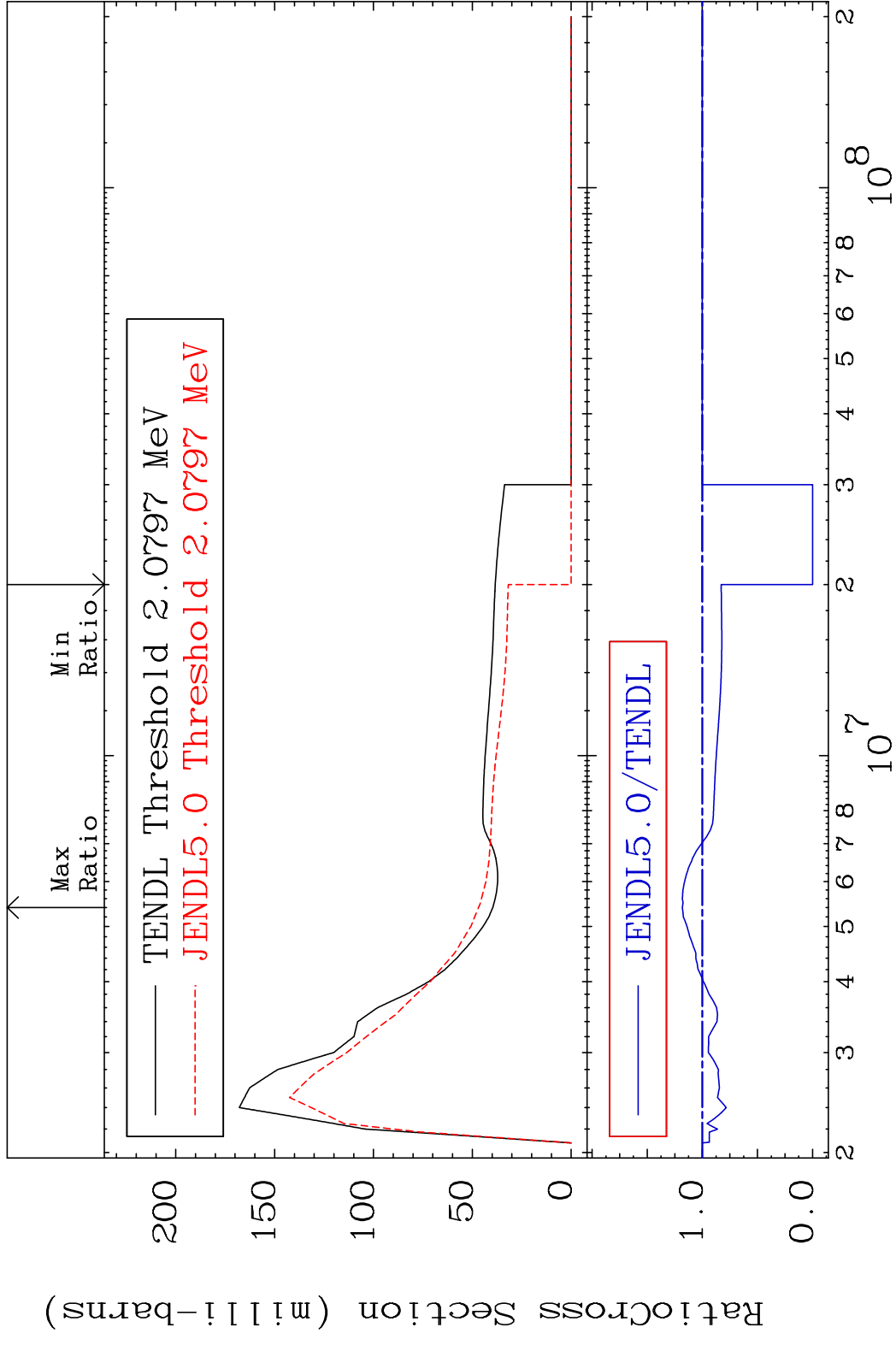
MAT 4037 MT= 53 (n, n') Level 40-Zr-94  
 Cross Section -100.0 To 8.408 %



MAT 4037 MT= 54 (n, n') Level 40-Zr-94  
 Cross Section -100.0 To 1046. %

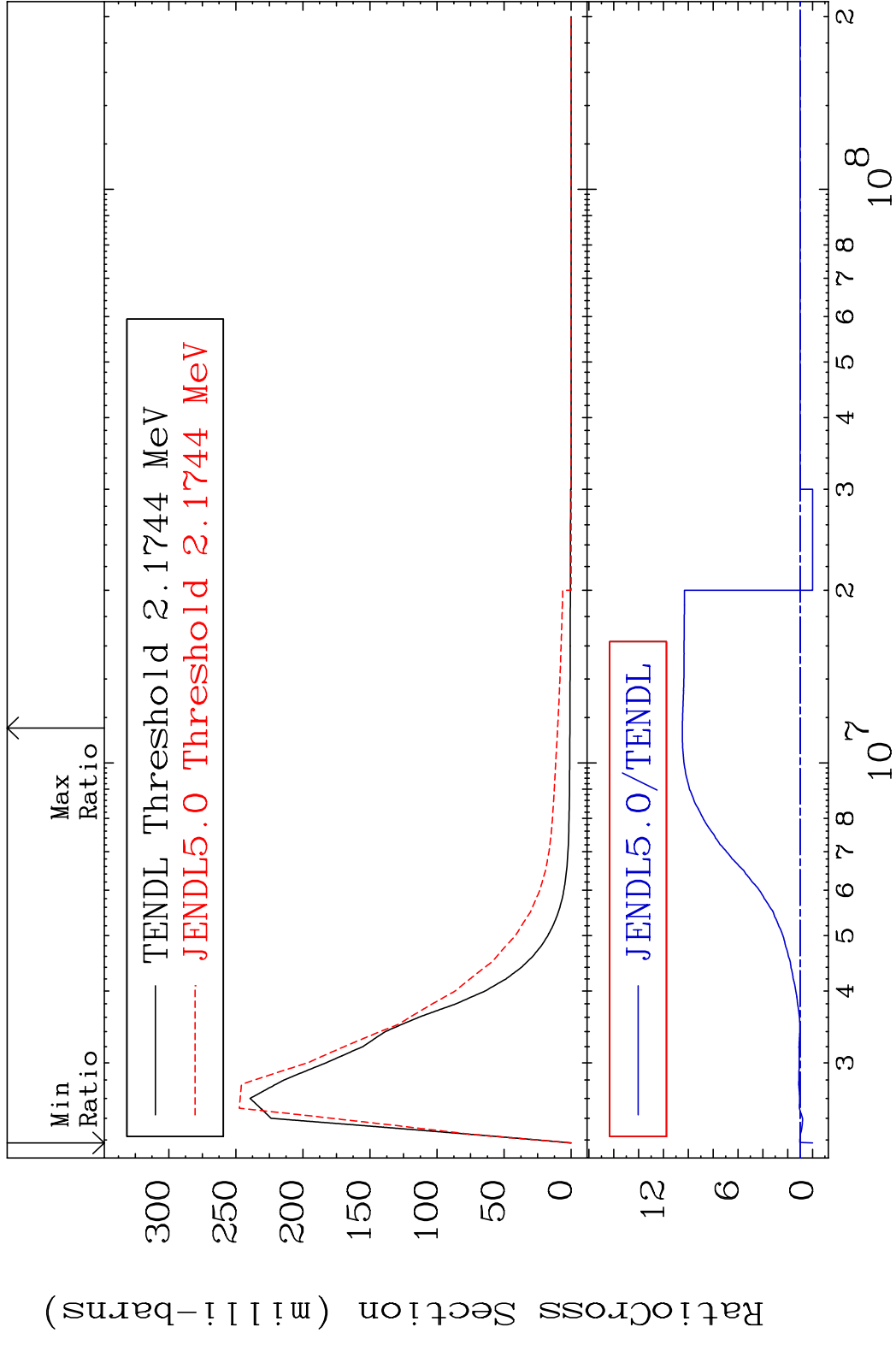


MAT 4037 MT= 55 (n, n') Level 40-Zr-94  
 Cross Section -100.0 To 18.13 %

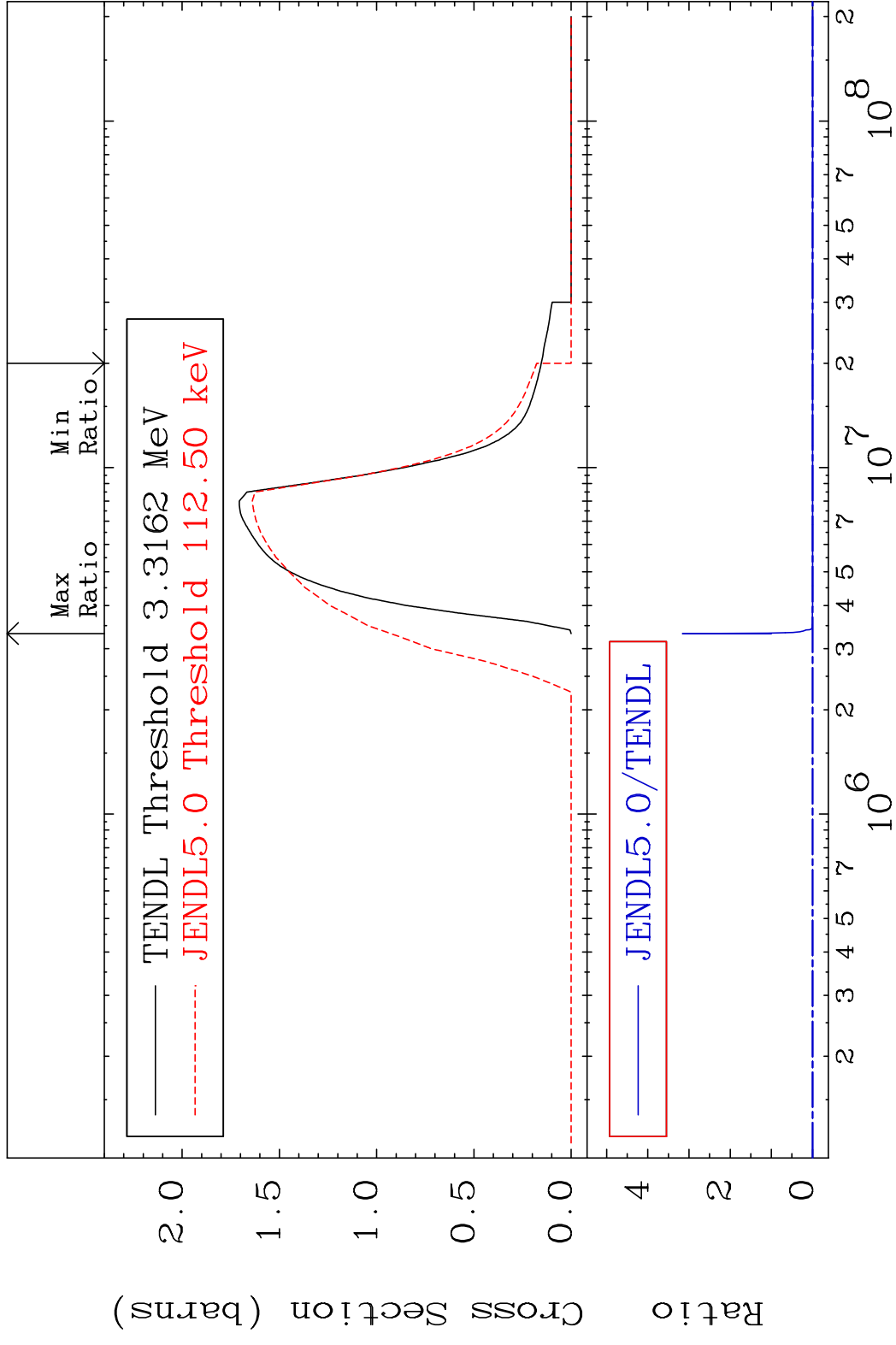




MAT 4037 MT= 56 (n, n') Level 40-Zr-94  
 Cross Section -100.0 To 948.2 %



MAT 4037 (n,n') Continuum 40-Zr-94  
 Cross Section -100.0 To 9999. %

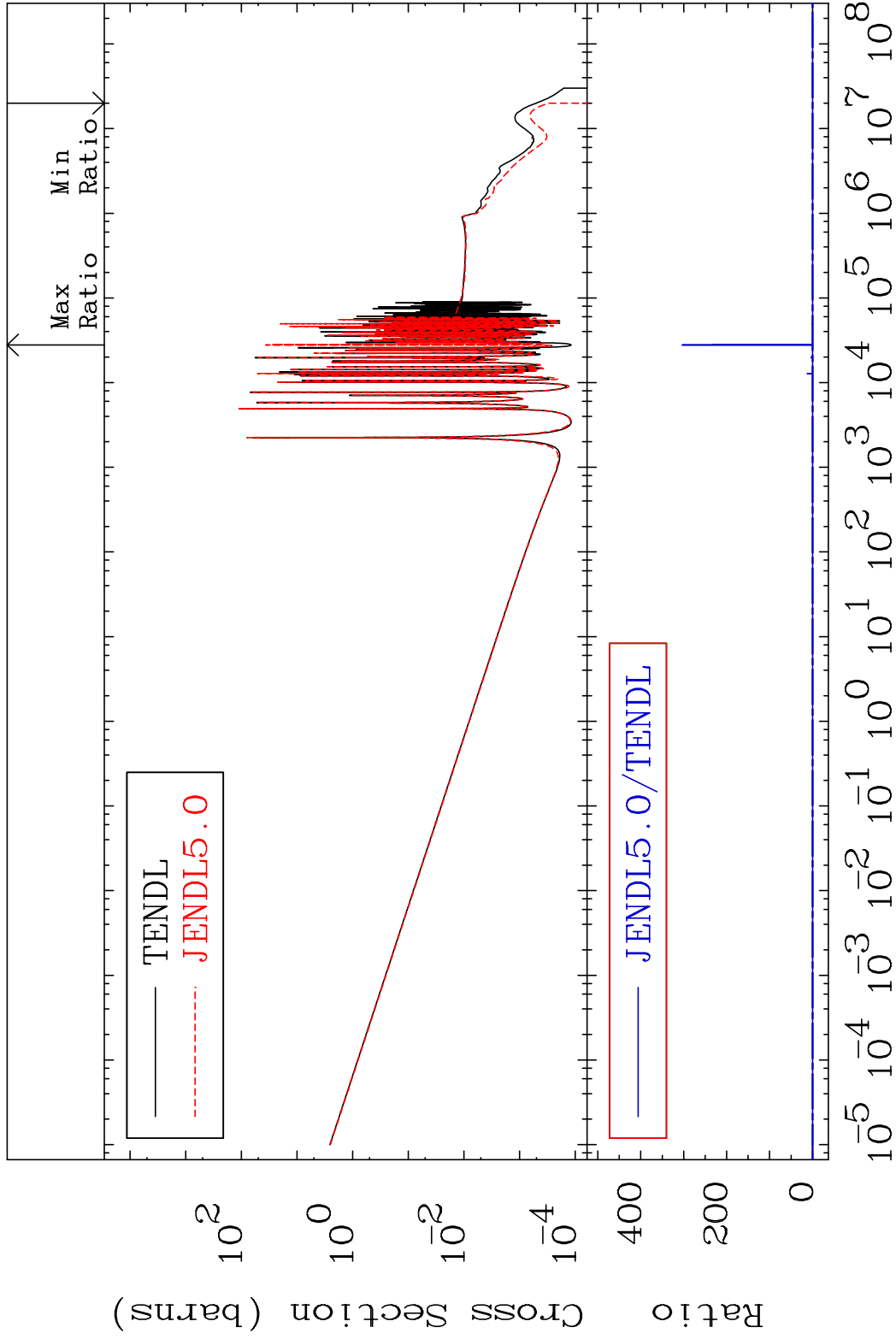


MAT 4037

(n,  $\gamma$ )

40-Zr-94

Cross Section -100.0 To 9999. %

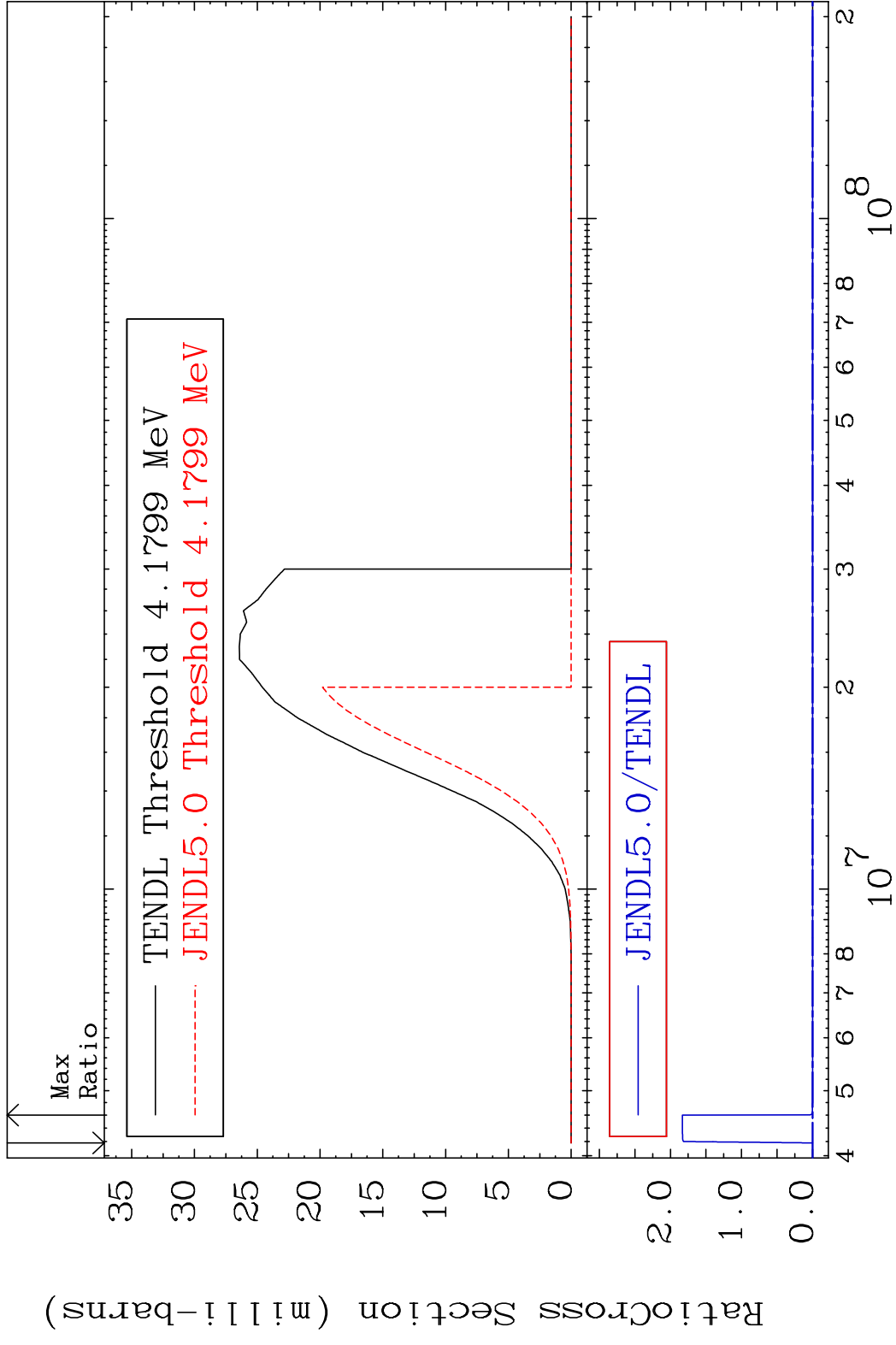


18

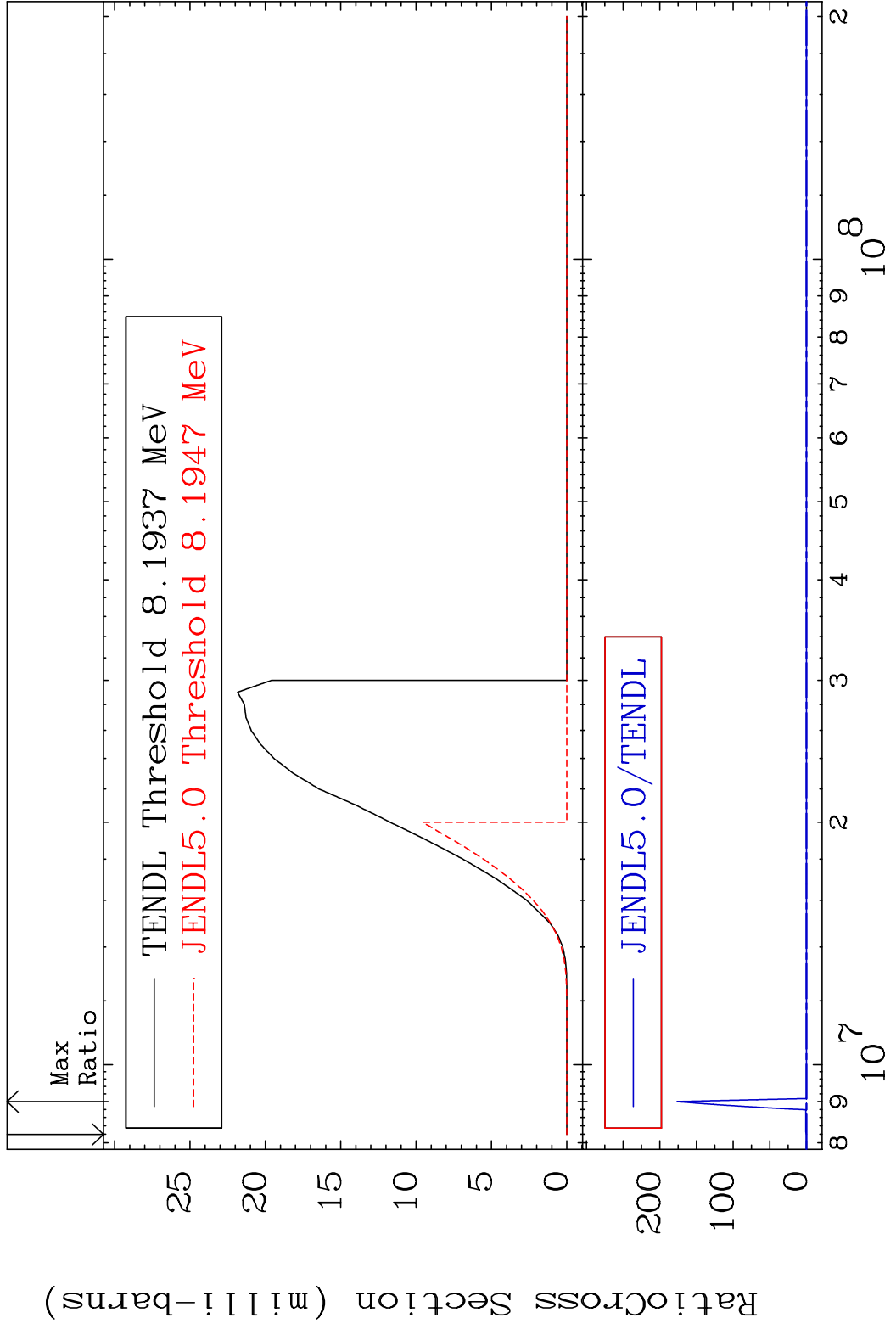
Incident Energy (eV)

40-Zr-94

MAT 4037 (n,p) 40-Zr-94  
 Cross Section -100.0 To 9999. %

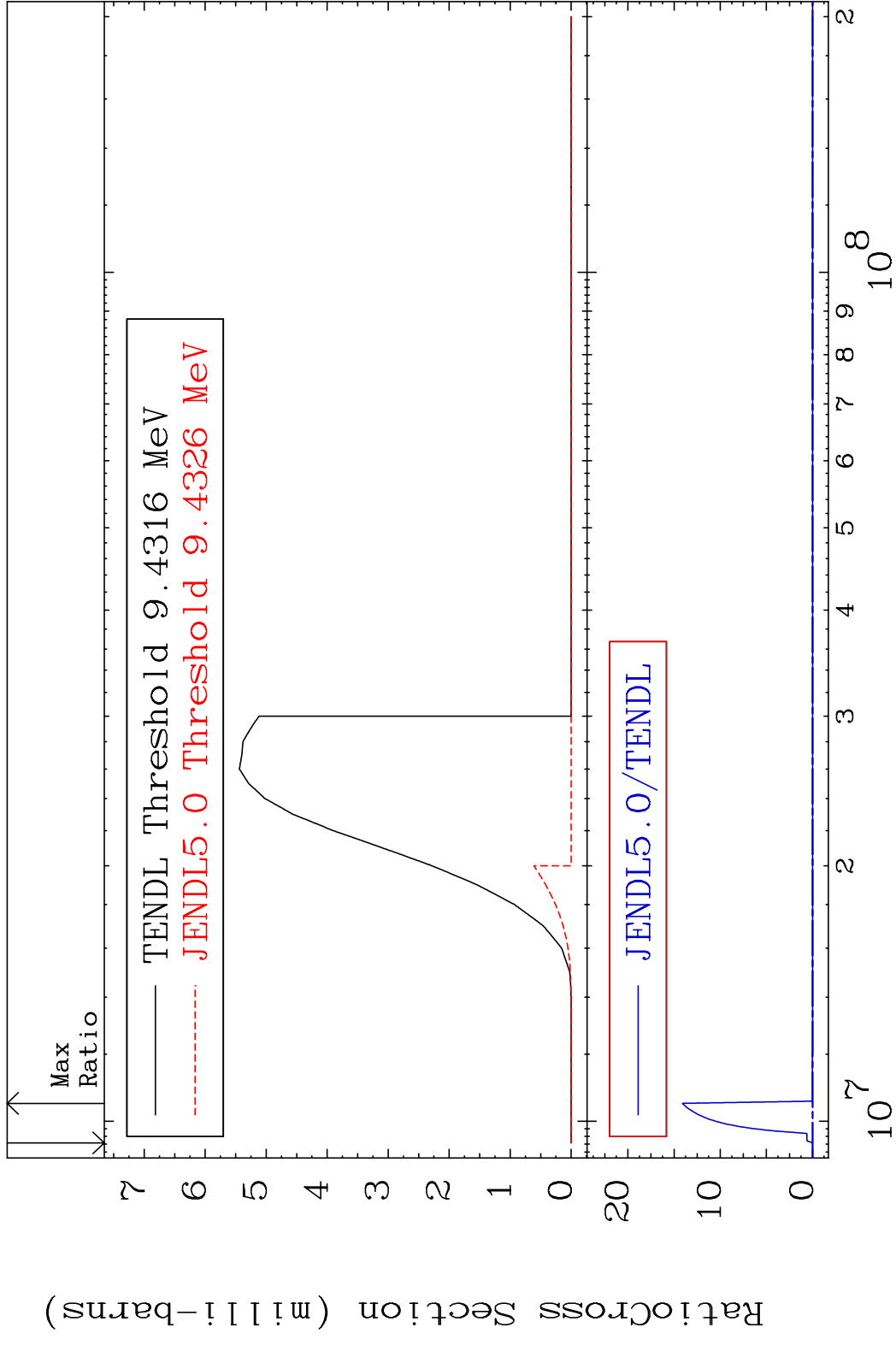


MAT 4037 (n,d) 40-Zr-94  
 Cross Section -100.0 To 9999. %



20 8 9 7 10 2 3 4 5 6 7 8 9 10 8 20 40-Zr-94

MAT 4037 (n, t) 40-Zr-94  
 Cross Section -100.0 To 9999. %



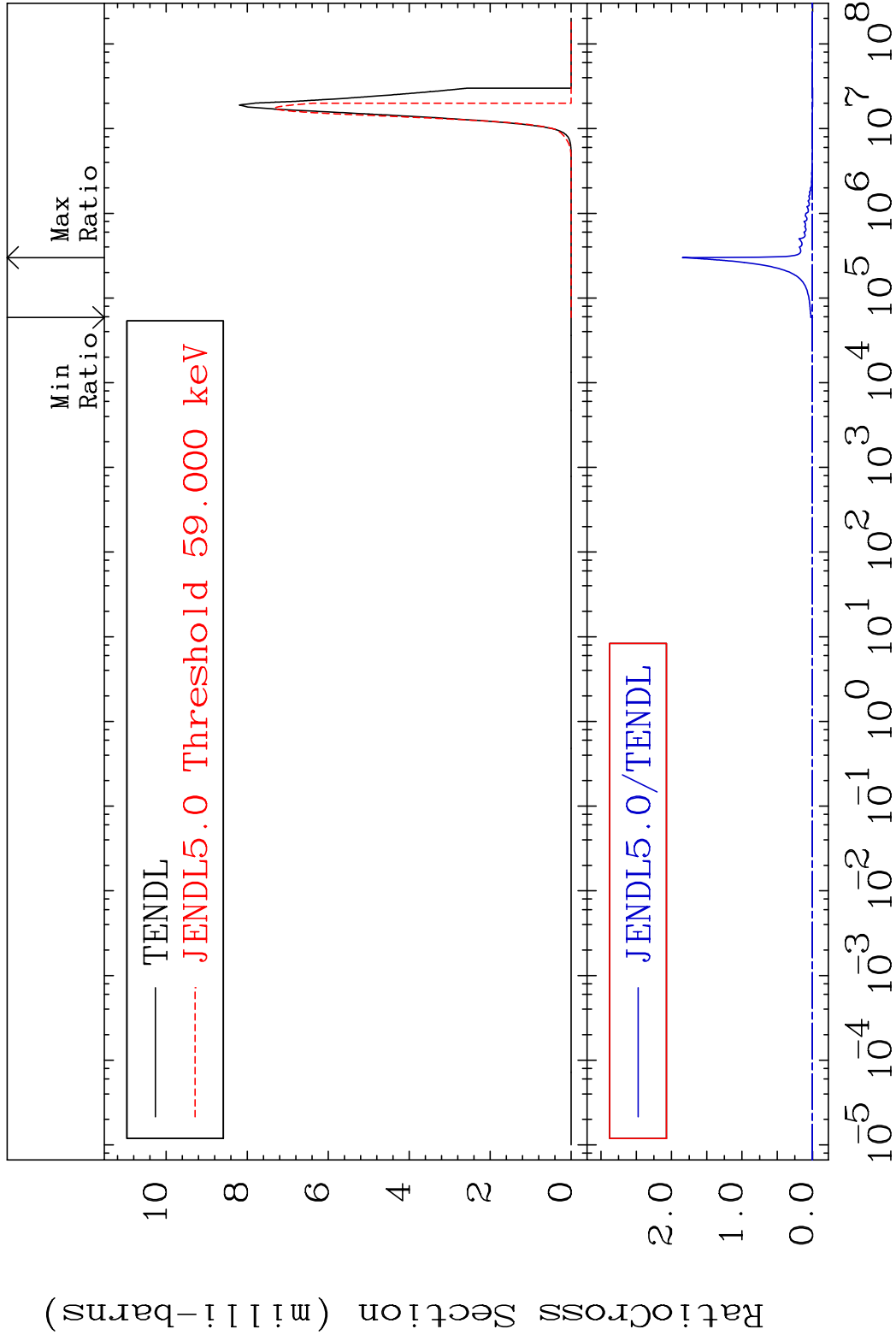
21 40-Zr-94

MAT 4037

(n,  $\alpha$ )

40-Zr-94

Cross Section -100.0 To 9999. %

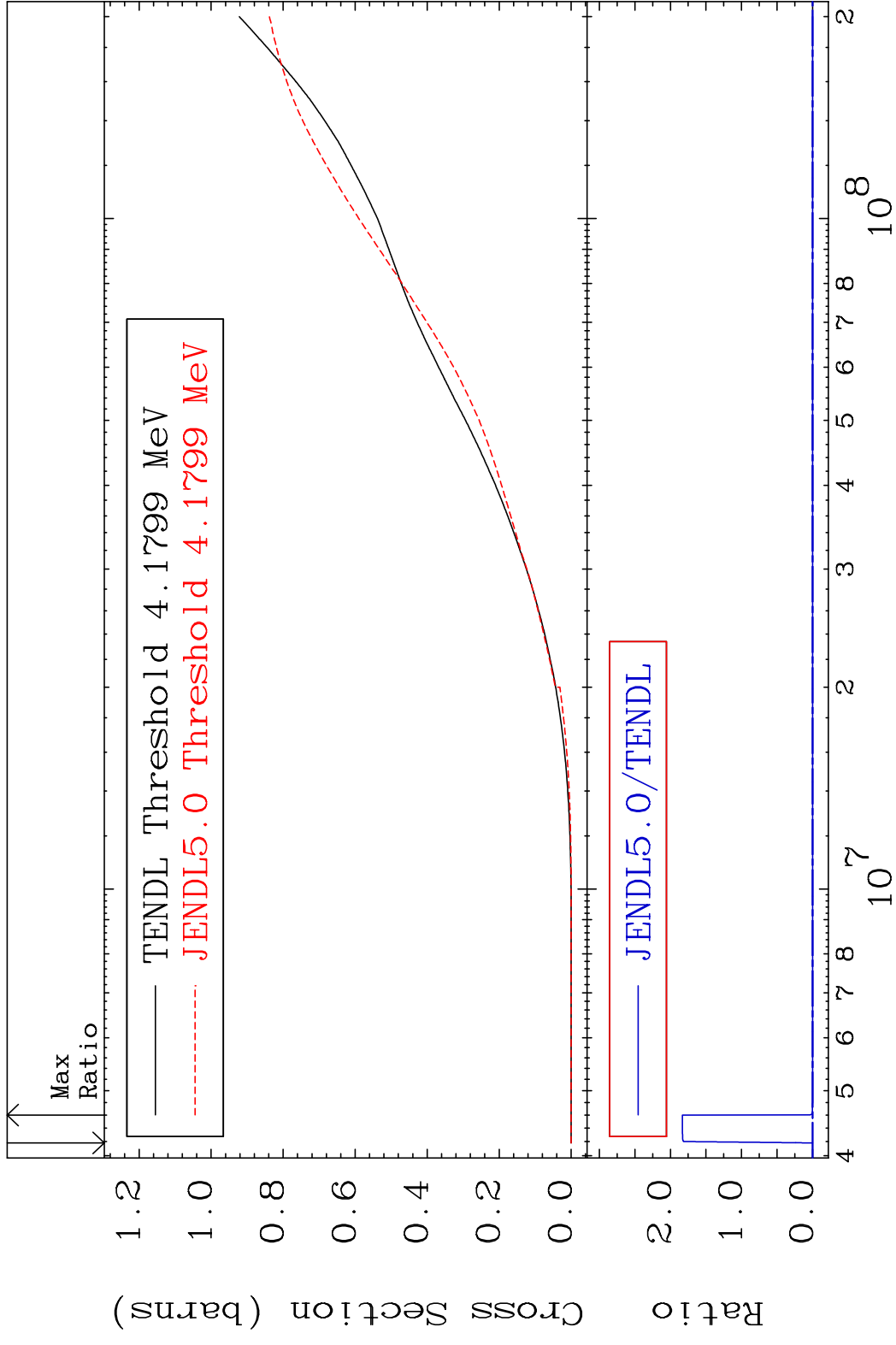


22

Incident Energy (eV)

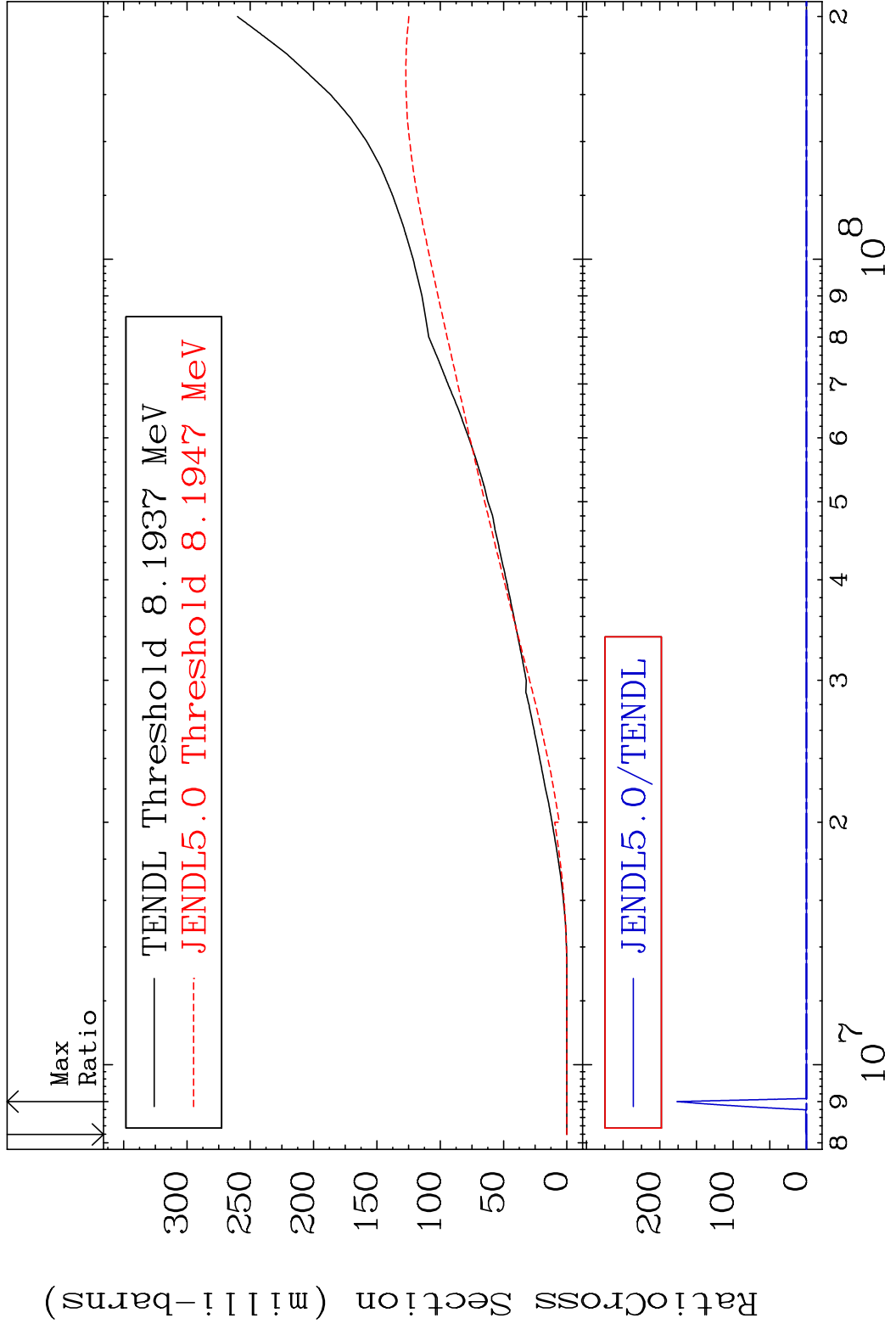
40-Zr-94

MAT 4037 Hydrogen Production 40-Zr-94  
 Cross Section -100.0 To 9999. %





MAT 4037 Deuterium Production 40-Zr-94  
 Cross Section -100.0 To 9999. %



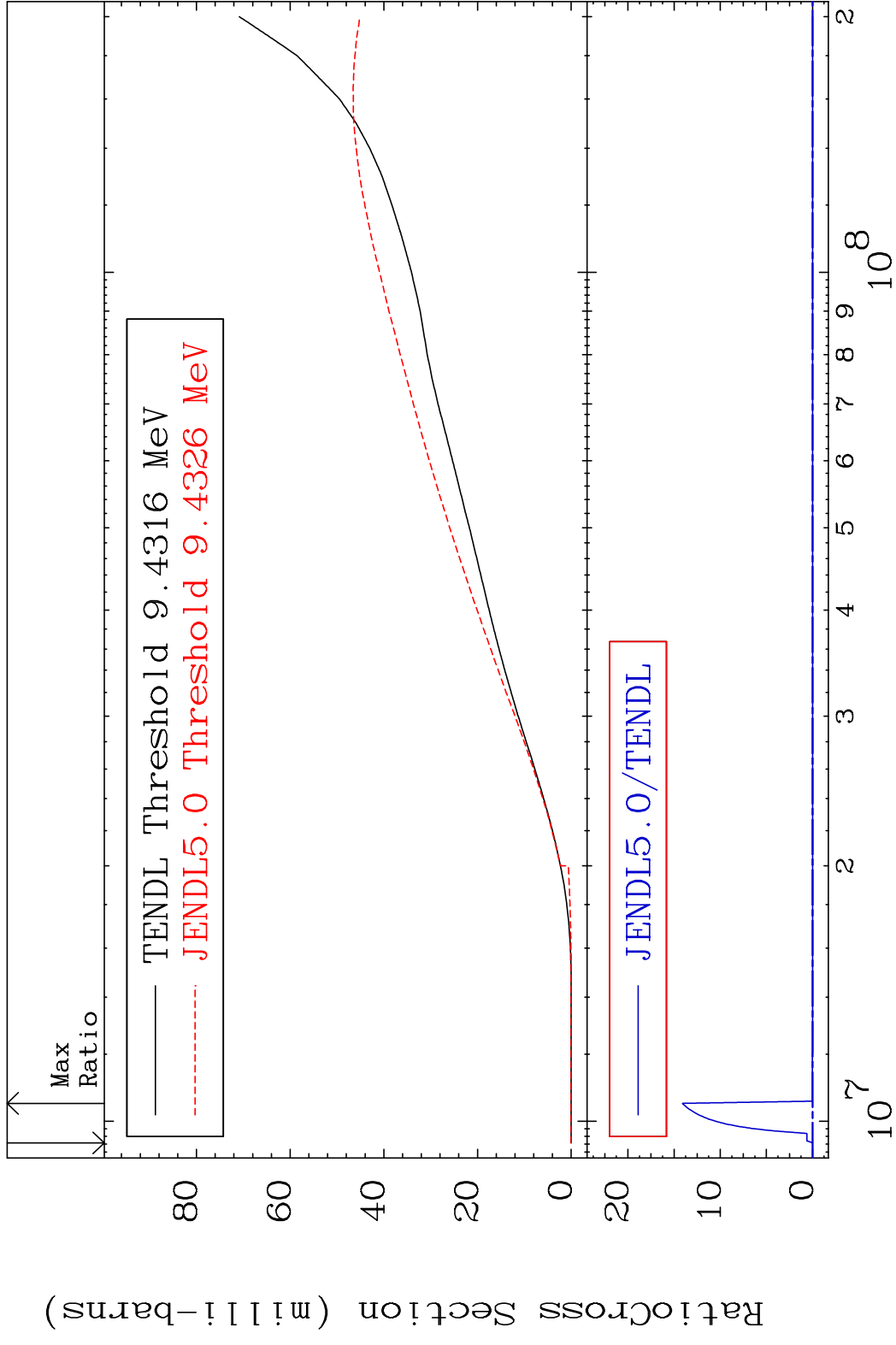
24 40-Zr-94

MAT 4037

Tritium Production

40-Zr-94

Cross Section -100.0 To 9999. %



25

Incident Energy (eV)

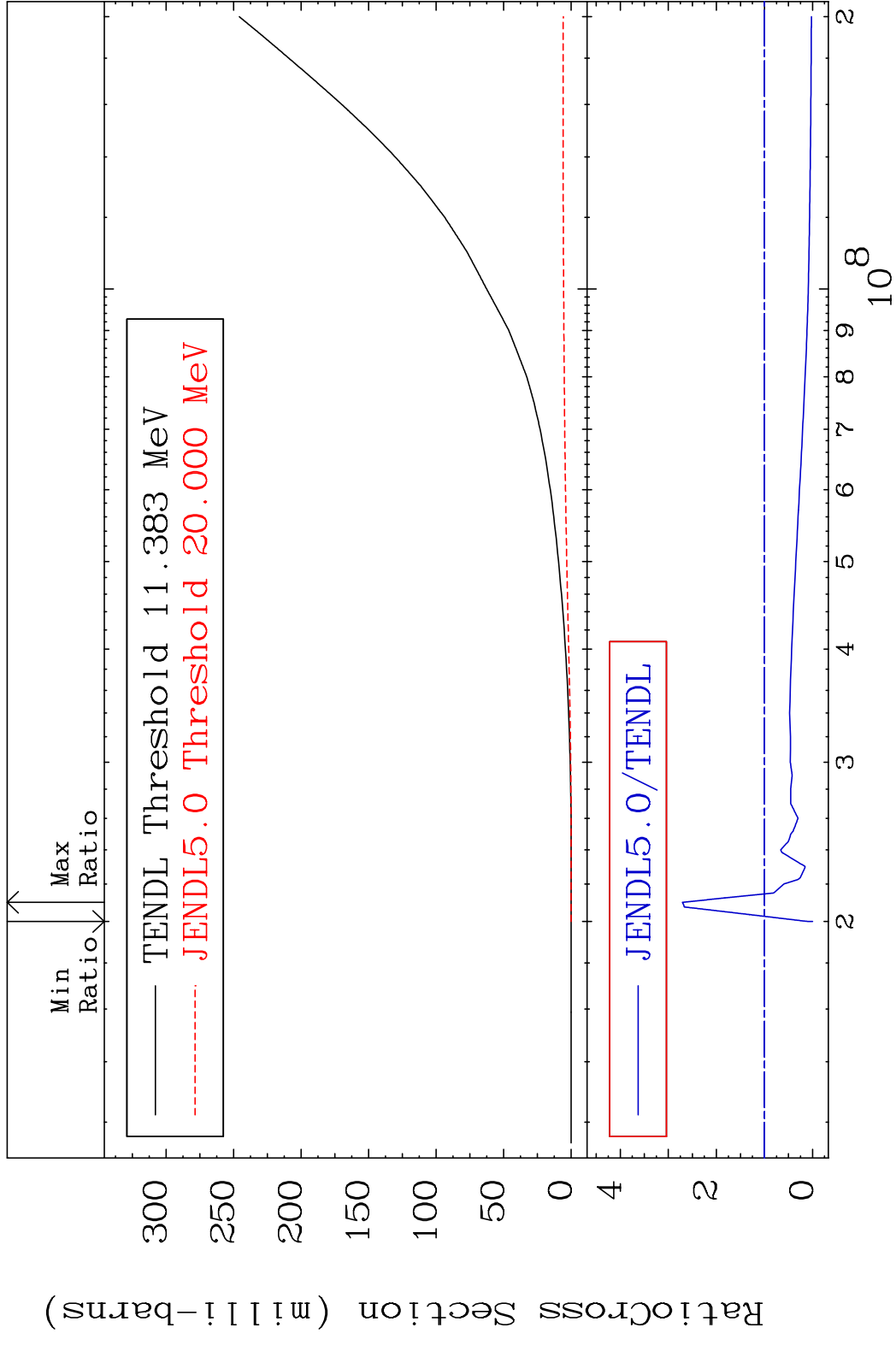
40-Zr-94

MAT 4037

He-3 Production

40-Zr-94

Cross Section -100.0 To 170.8 %

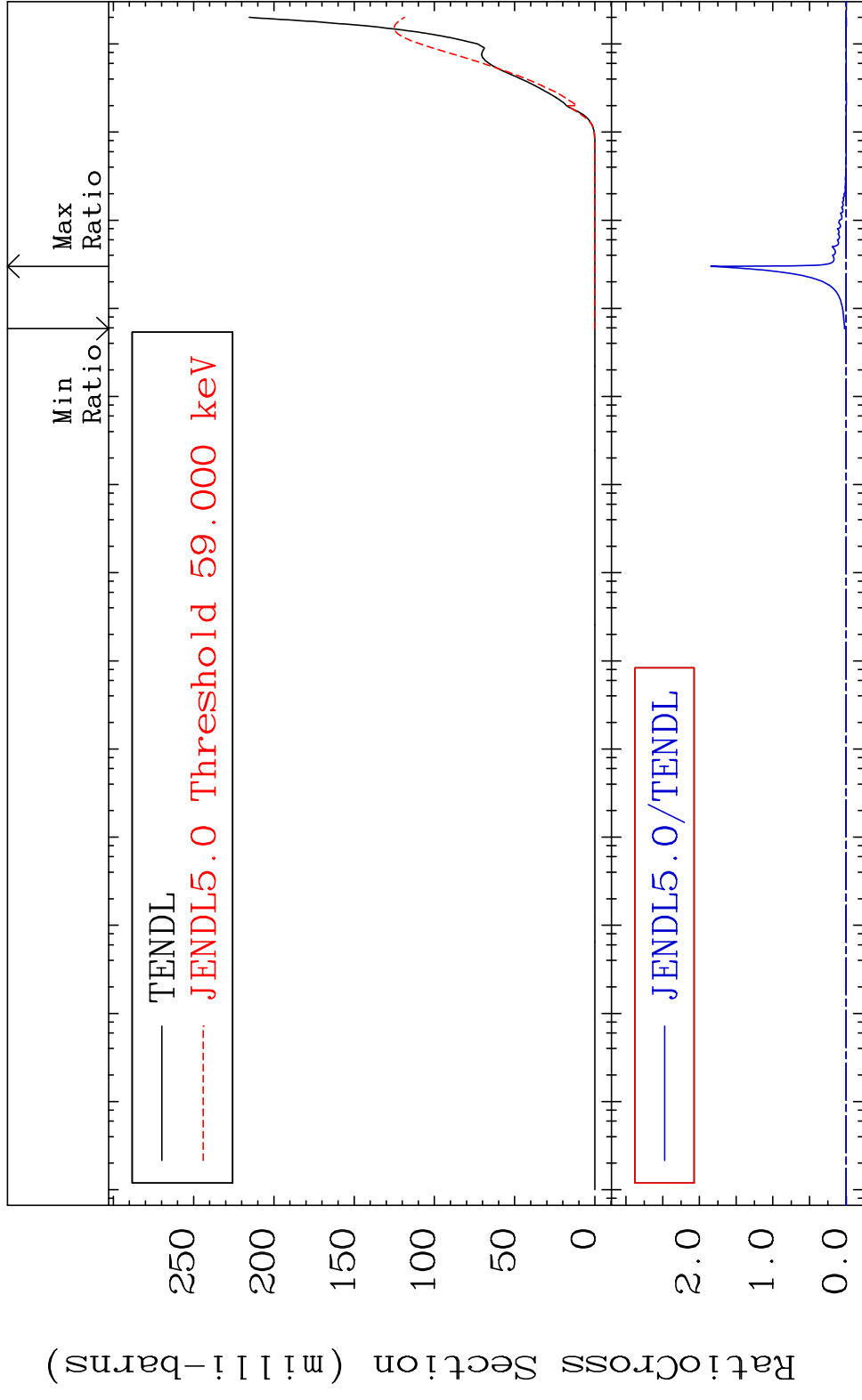


MAT 4037

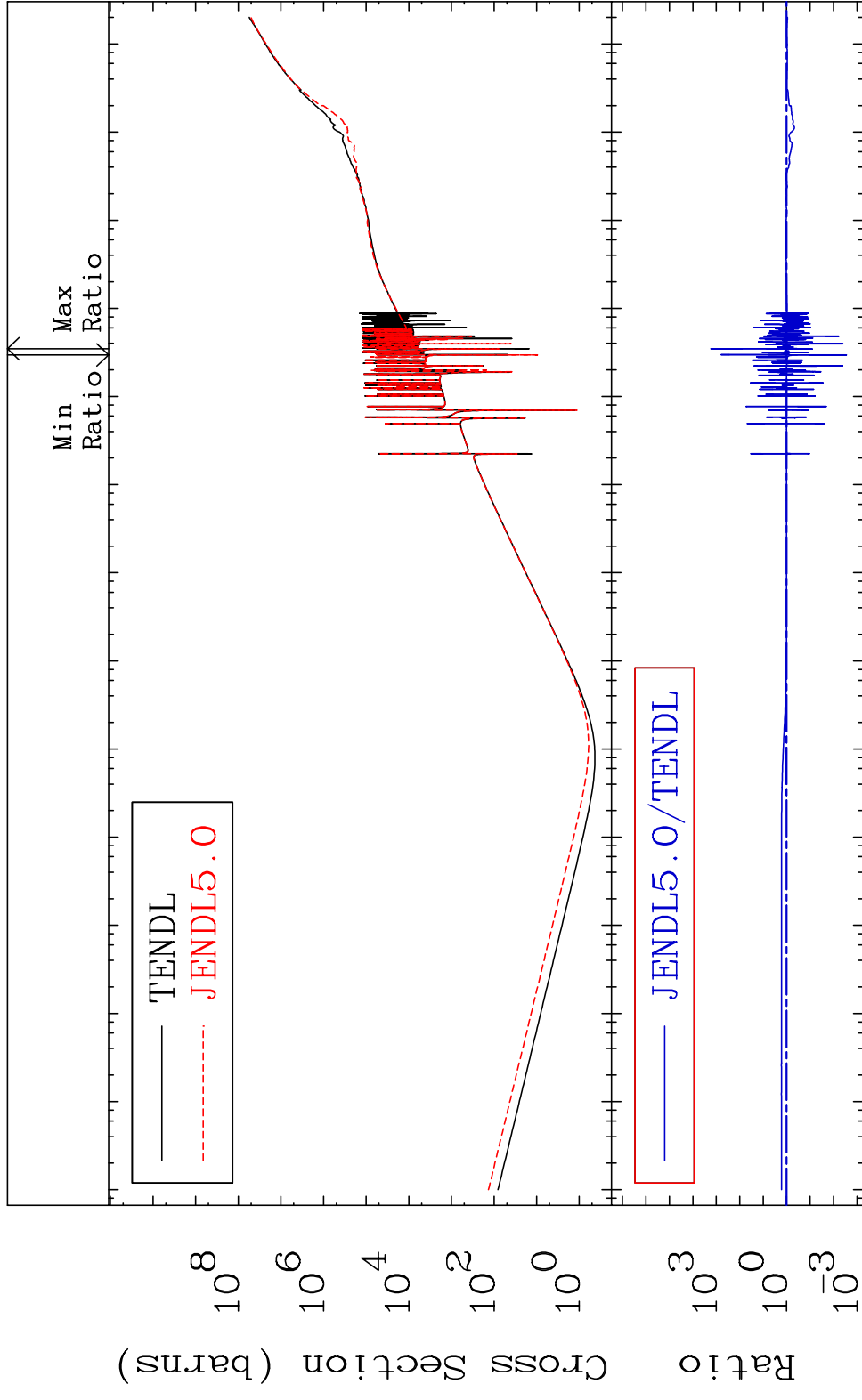
He-4 Production

40-Zr-94

Cross Section -100.0 To 9999. %



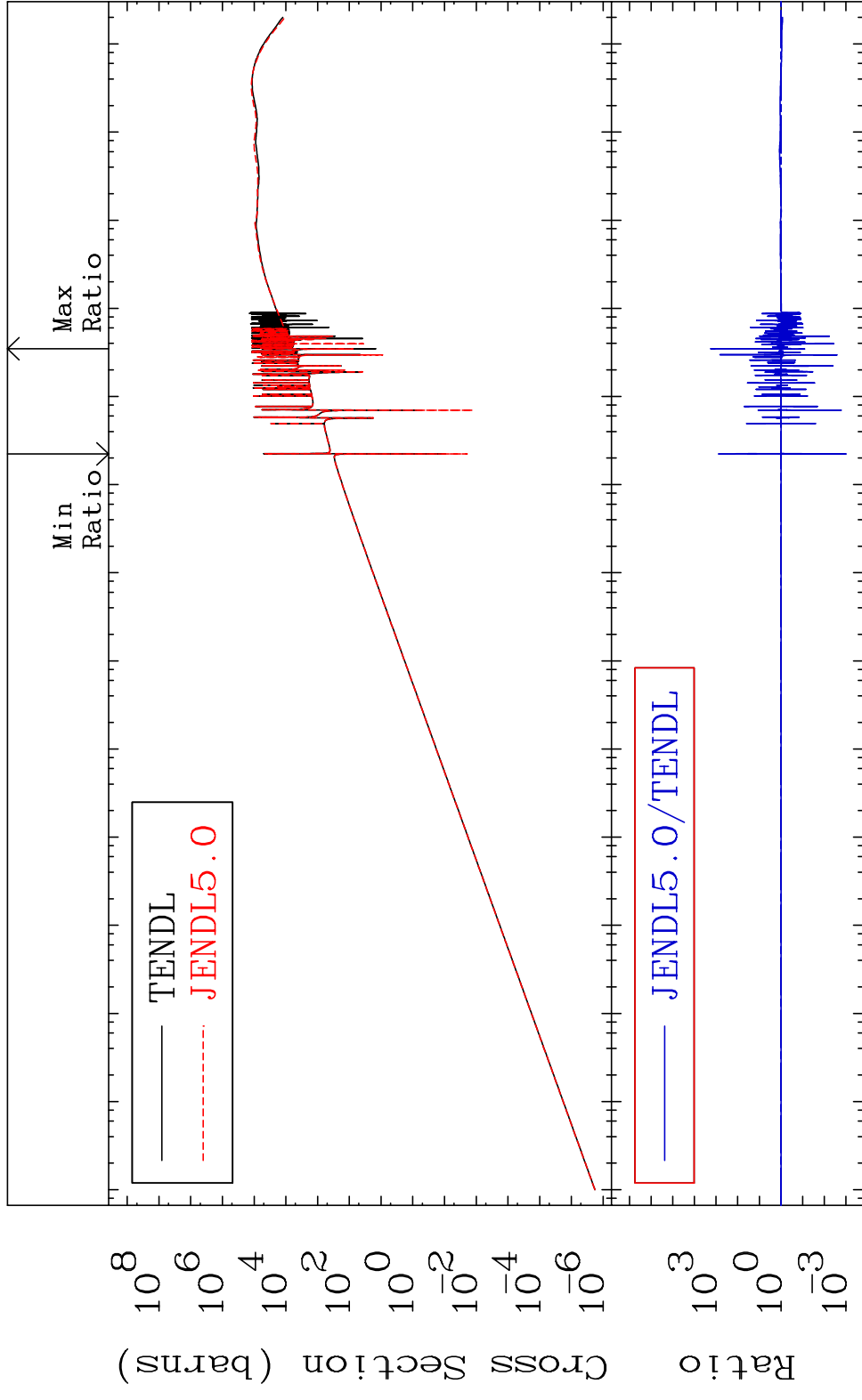
MAT 4037 Kerma total (eV-barns) 40-Zr-94  
 Cross Section -99.71 To 9999. %



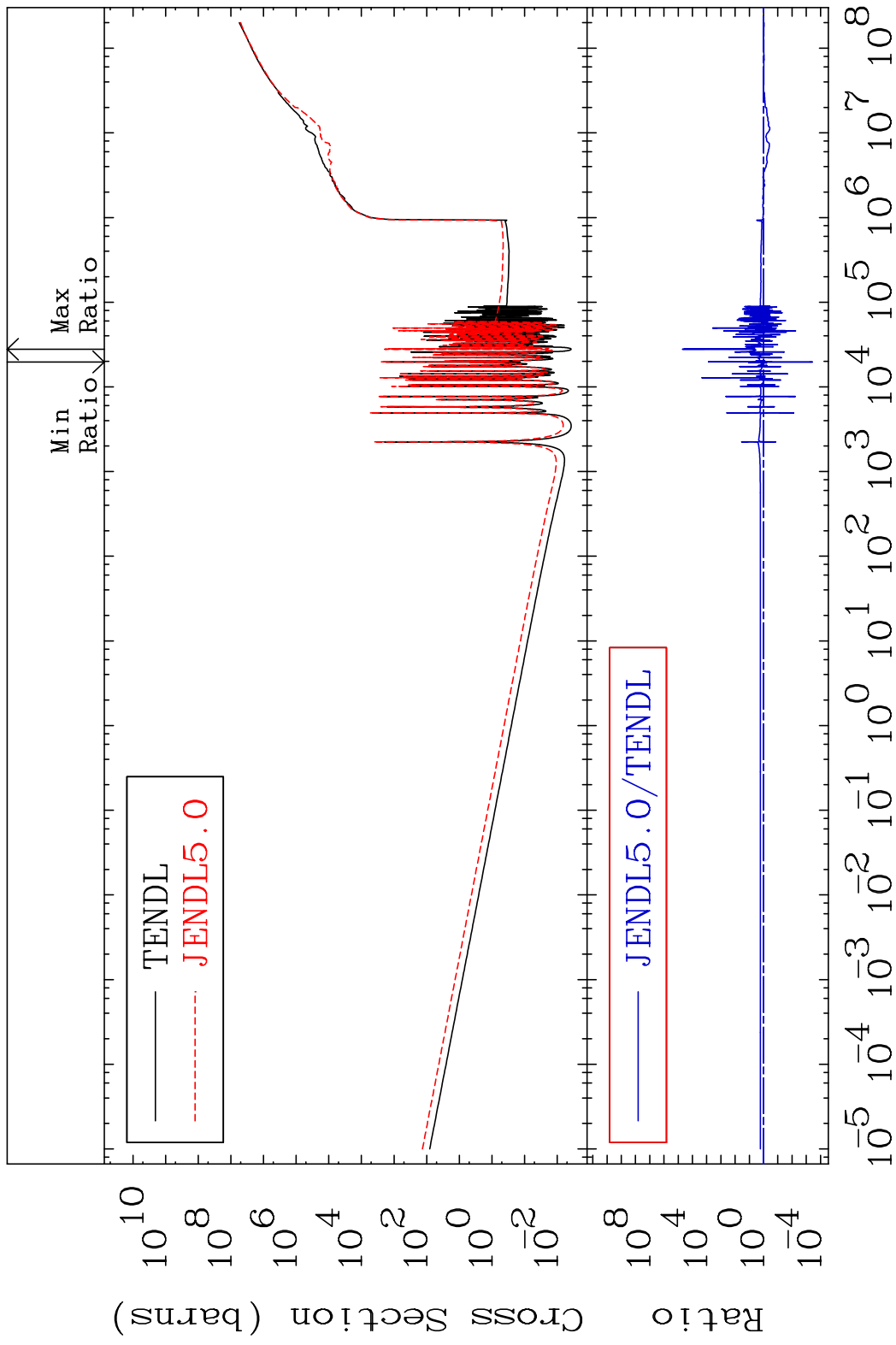
28 Incident Energy (eV) 40-Zr-94

MAT 4037

Kerma elastic Cross Section -99.90 To 9999. % 40-Zr-94

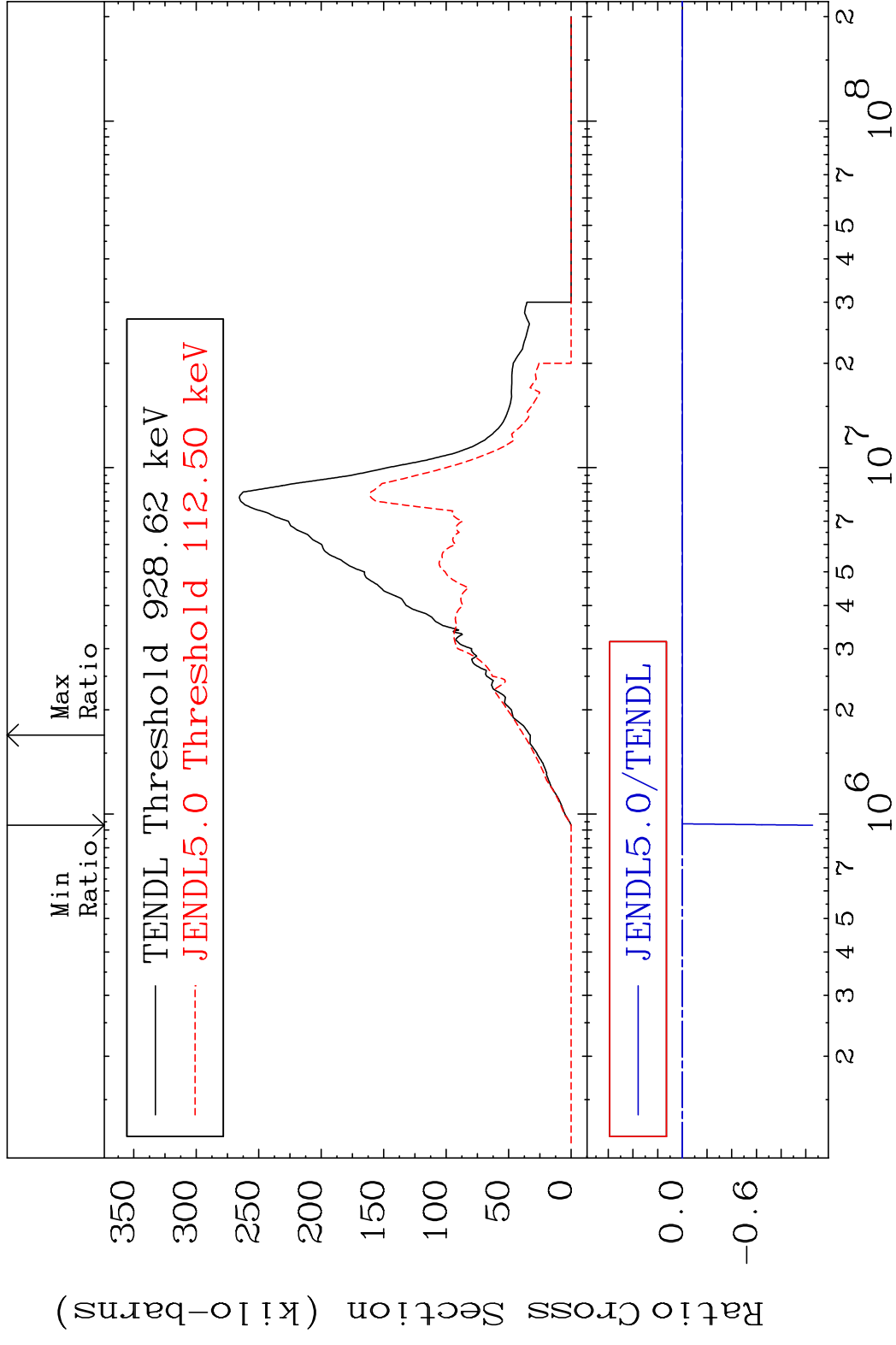


MAT 4037 Kerma non-elastic (all but mt2) 40-Zr-94  
 Cross Section -99.96 To 9999. %



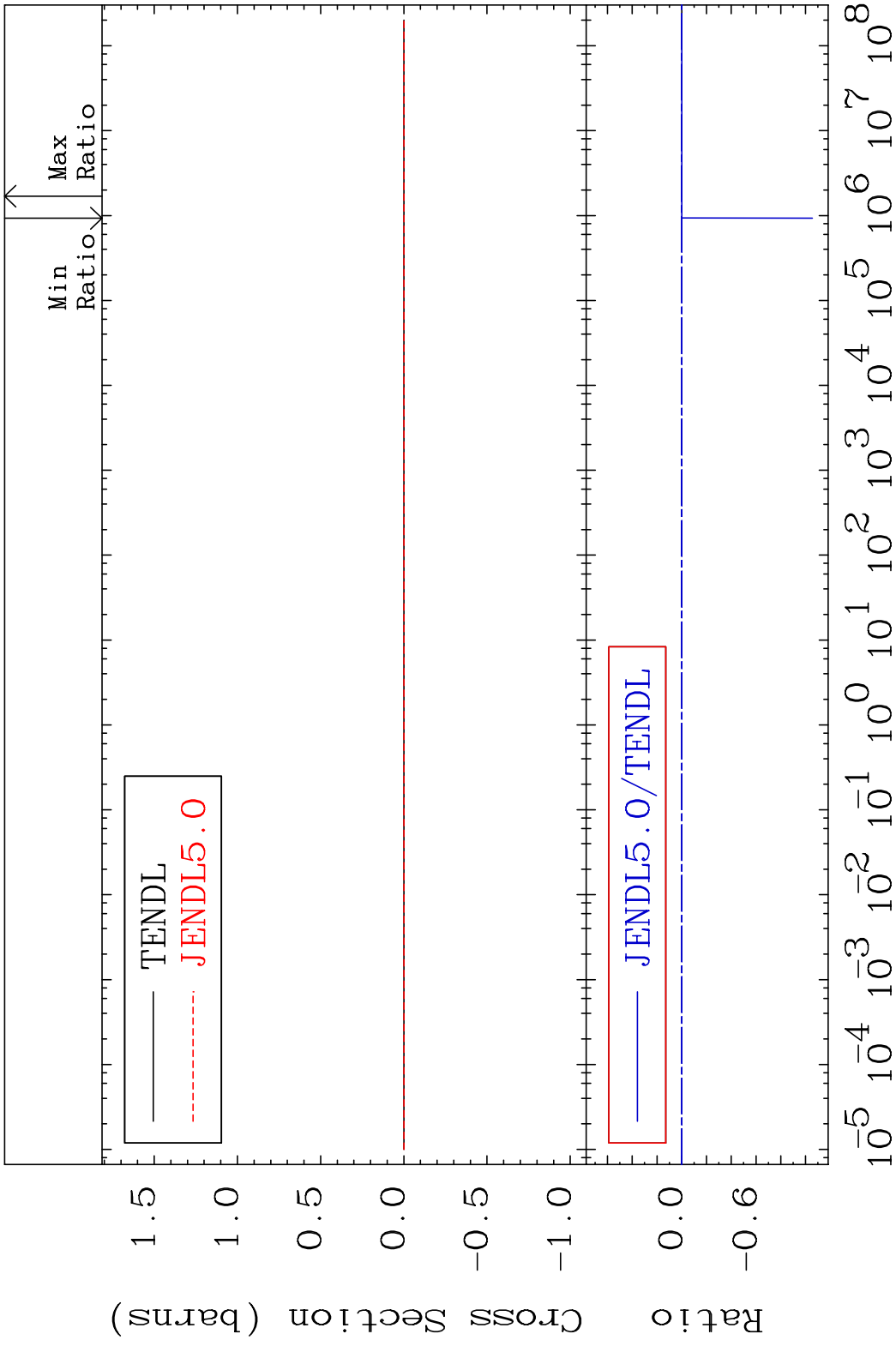
30 Incident Energy (eV) 40-Zr-94

MAT 4037 Kerma inelastic (mt51-91) 40-Zr-94  
 Cross Section -9999. To 15.44 %

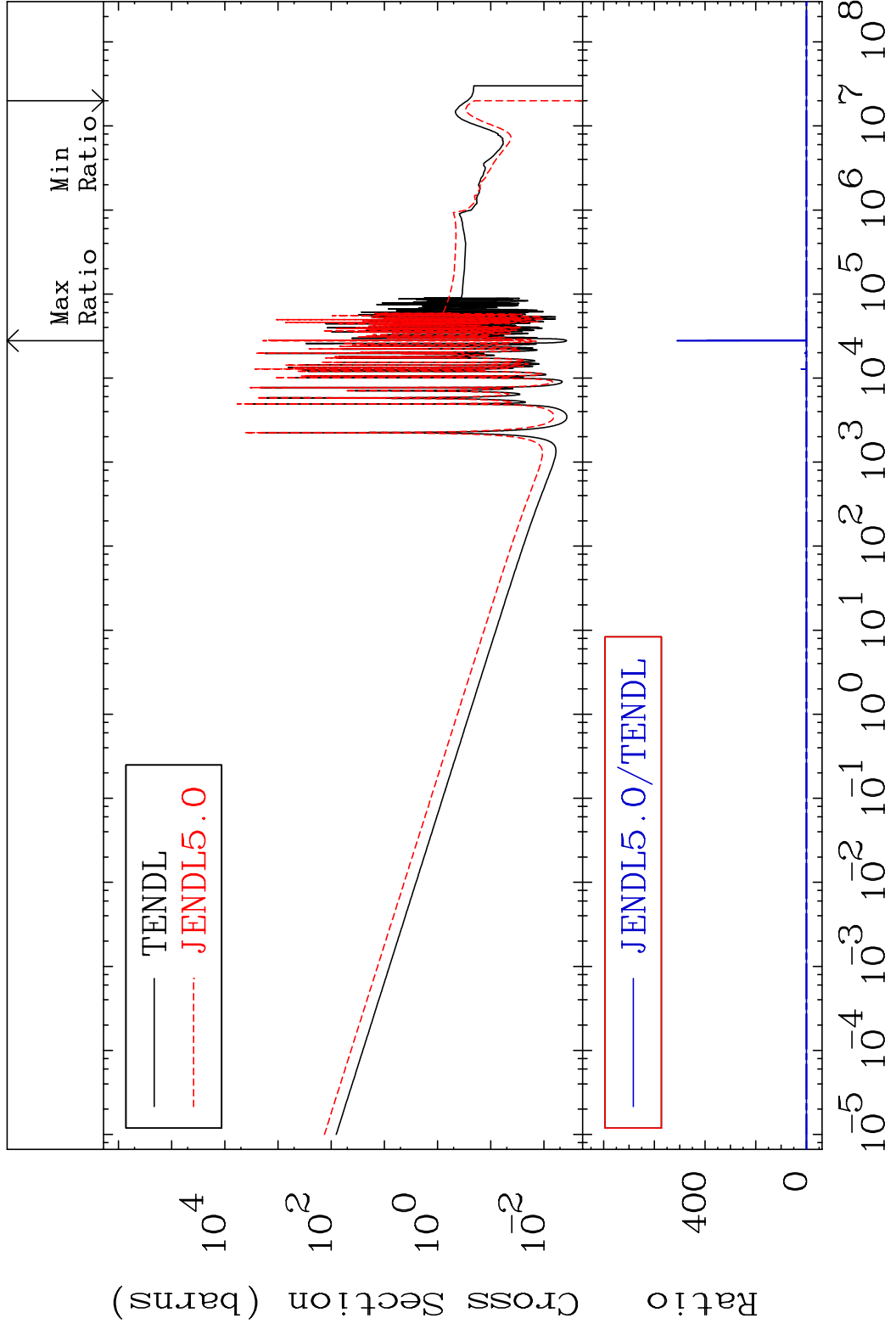




MAT 4037 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-94  
 Cross Section -9999. To 15.44 %



MAT 4037 Kerma capture (mt102) 40-Zr-94  
 Cross Section -100.0 To 9999. %



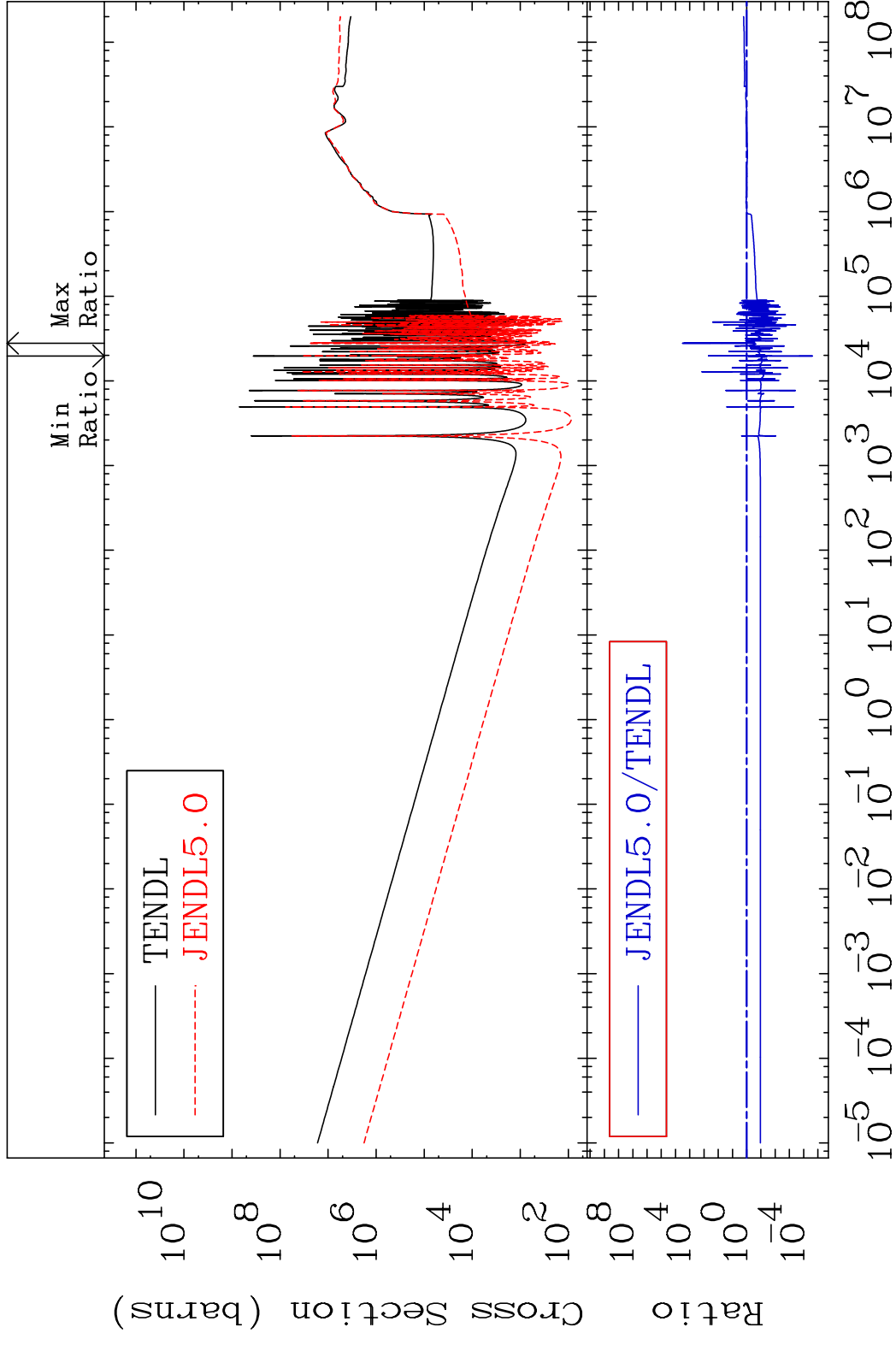
— TENDL  
 - - - JENDL5.0

— JENDL5.0/TENDL

Max Ratio  
 Min Ratio

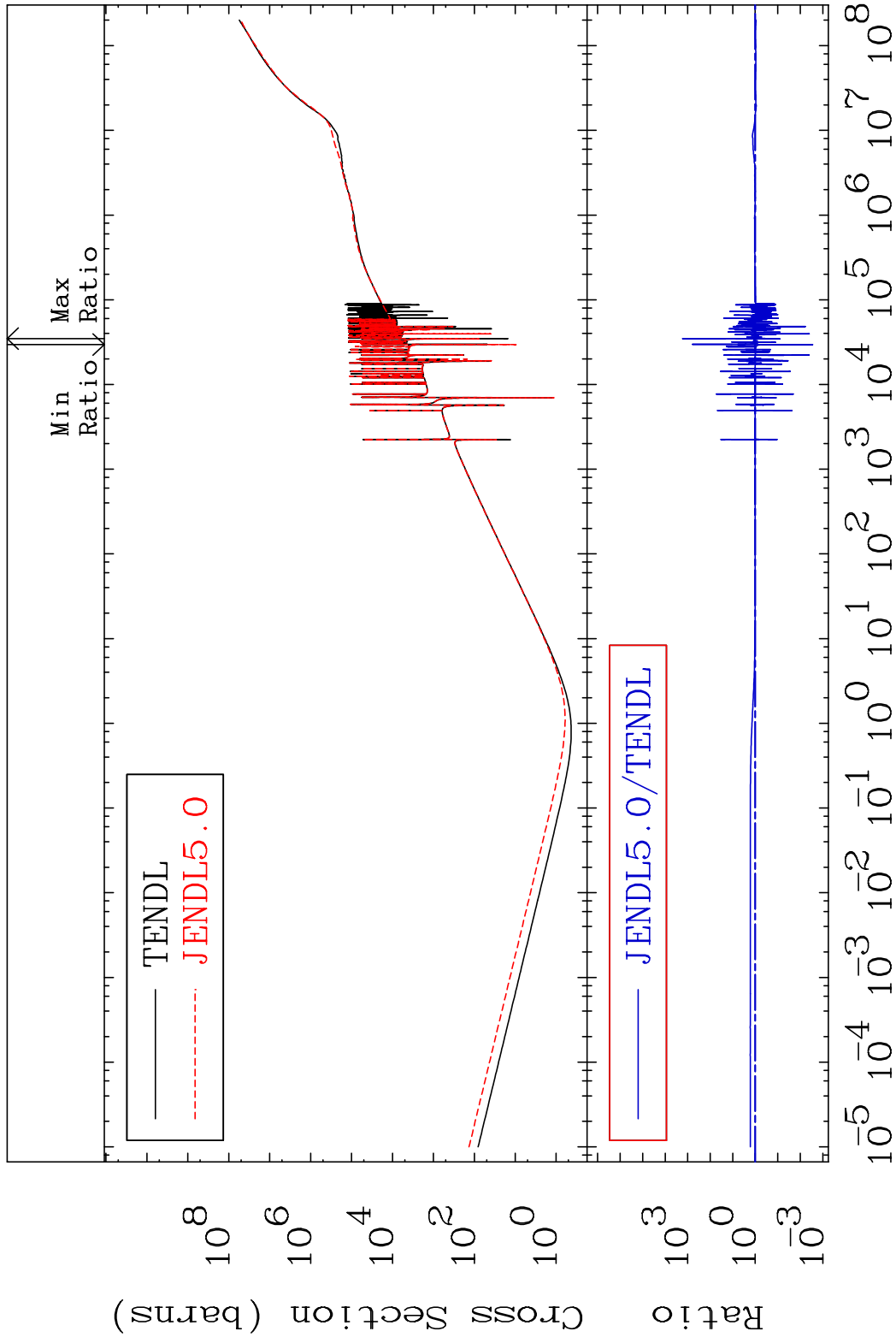
33 Incident Energy (eV) 40-Zr-94

MAT 4037 Total photon (eV-barns) 40-Zr-94  
 Cross Section -100.0 To 9999. %

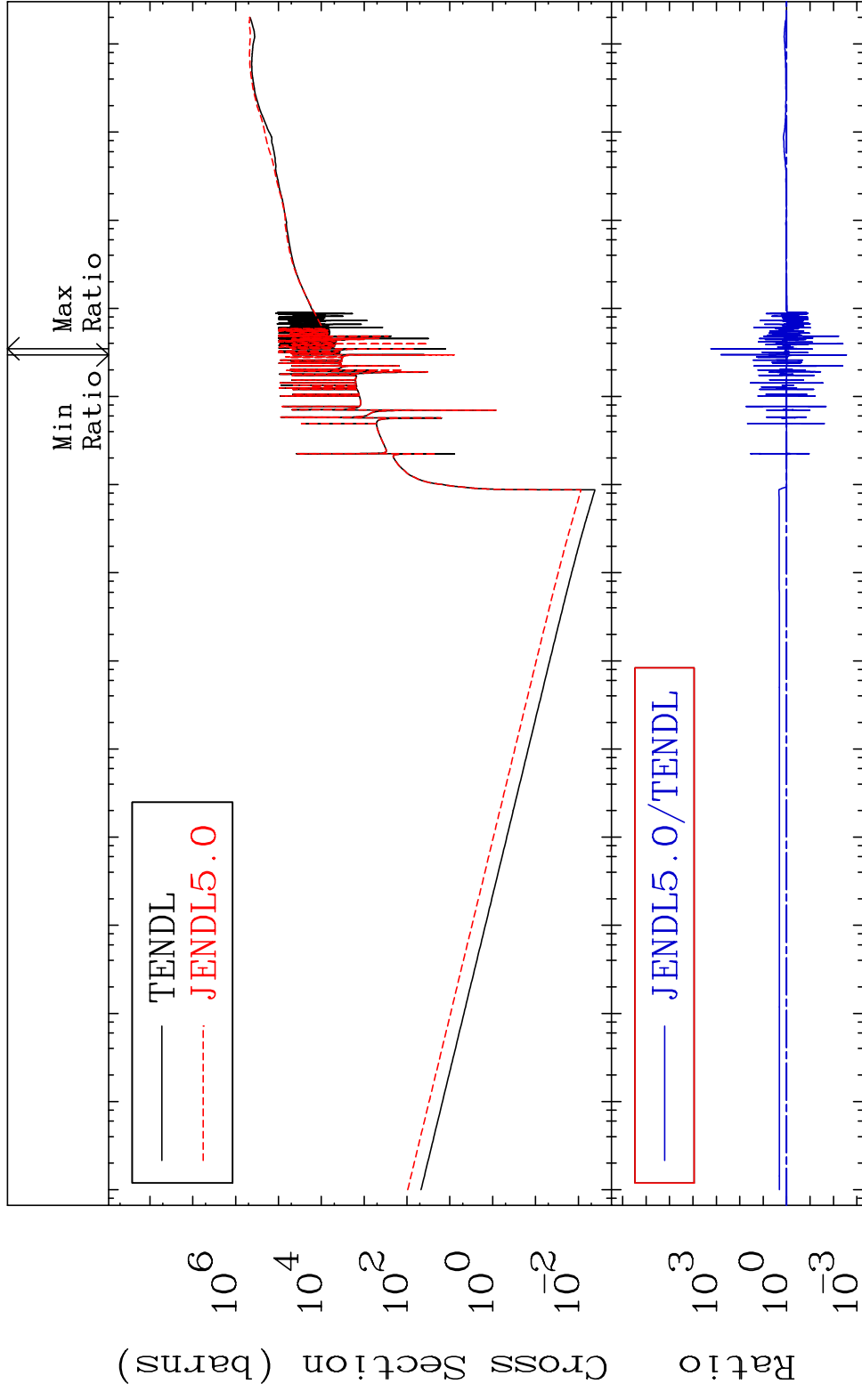


34 Incident Energy (eV) 40-Zr-94

MAT 4037 Total kinematic kerma (high limit) 40-Zr-94  
 Cross Section -99.71 To 9999. %



MAT 4037      Dpa total (eV-barns)      40-Zr-94  
 Cross Section      -99.72 To 9999. %

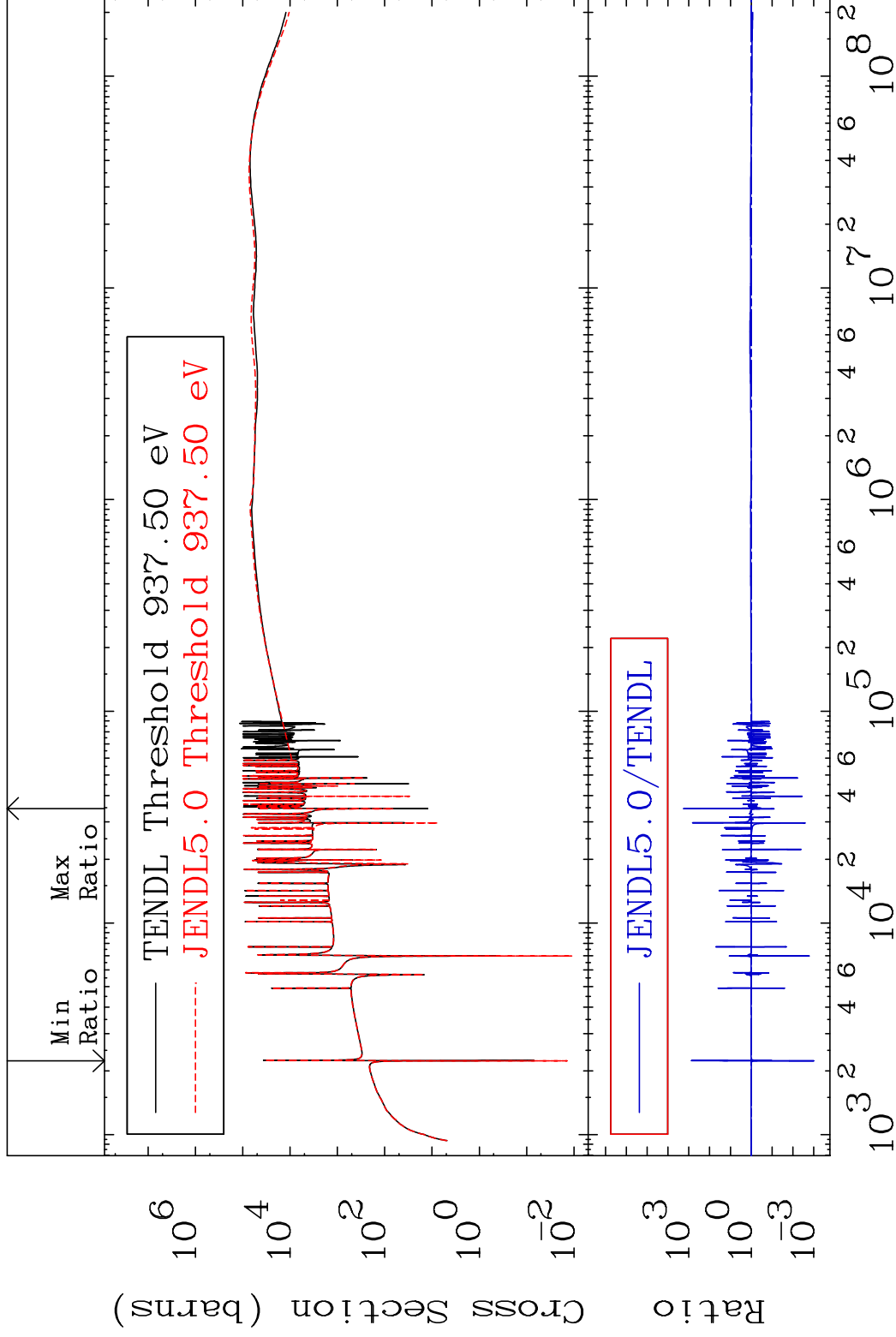


MAT 4037

Dpa elastic (mt2)

40-Zr-94

Cross Section -99.90 To 9999. %

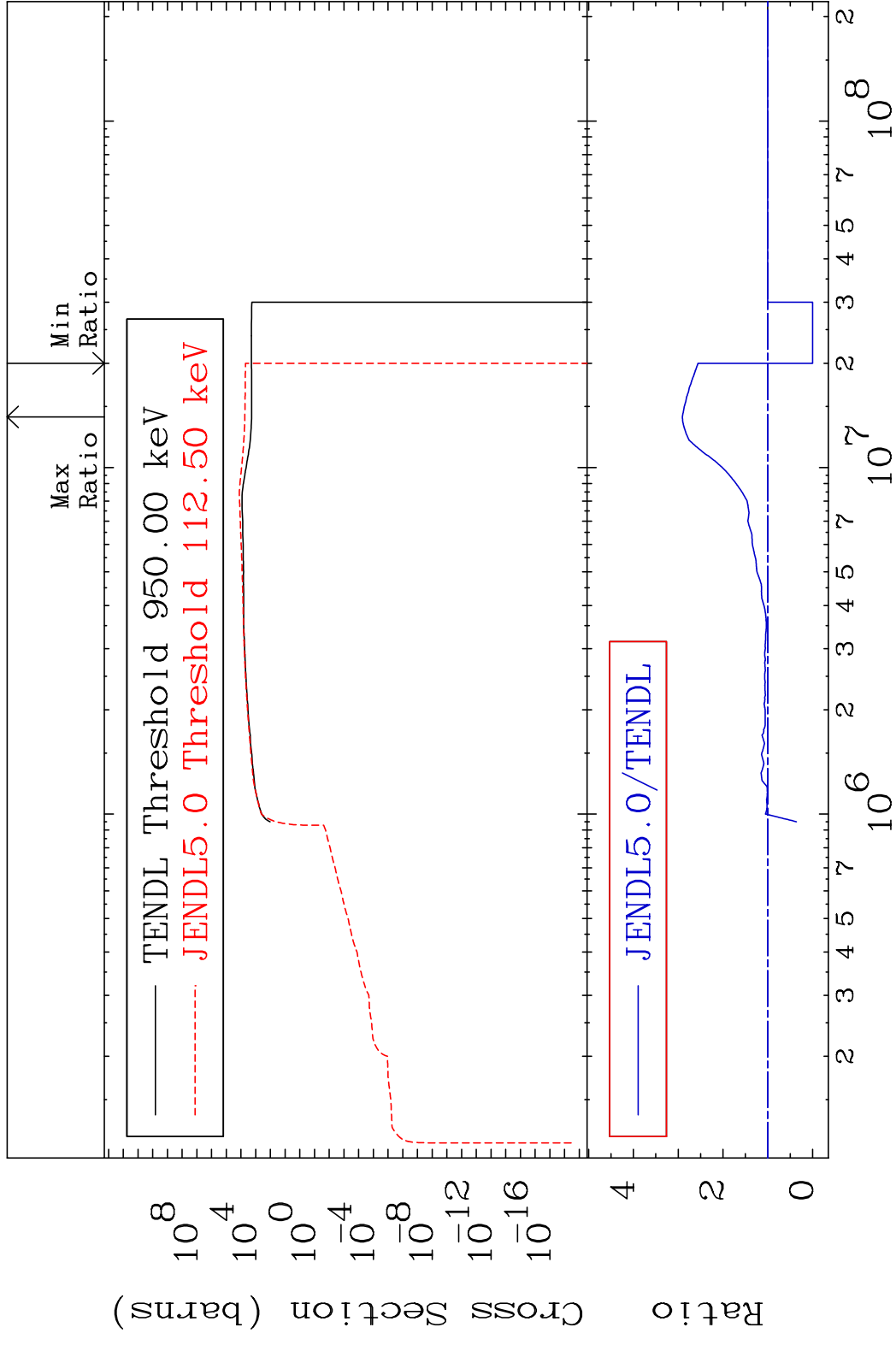


37

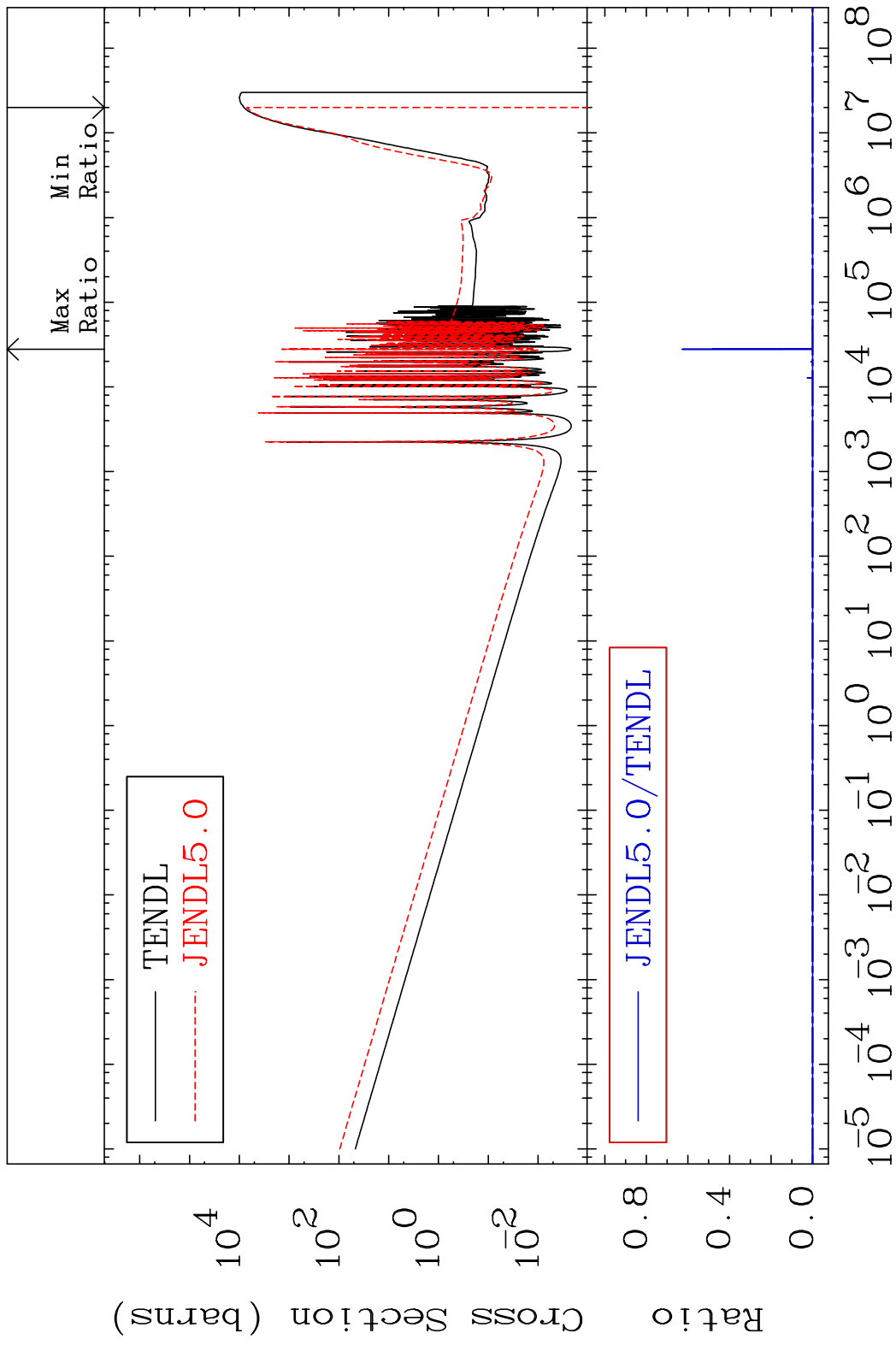
Incident Energy (eV)

40-Zr-94

MAT 4037 Dpa inelastic (mt51-91) 40-Zr-94  
 Cross Section -100.0 To 190.7 %



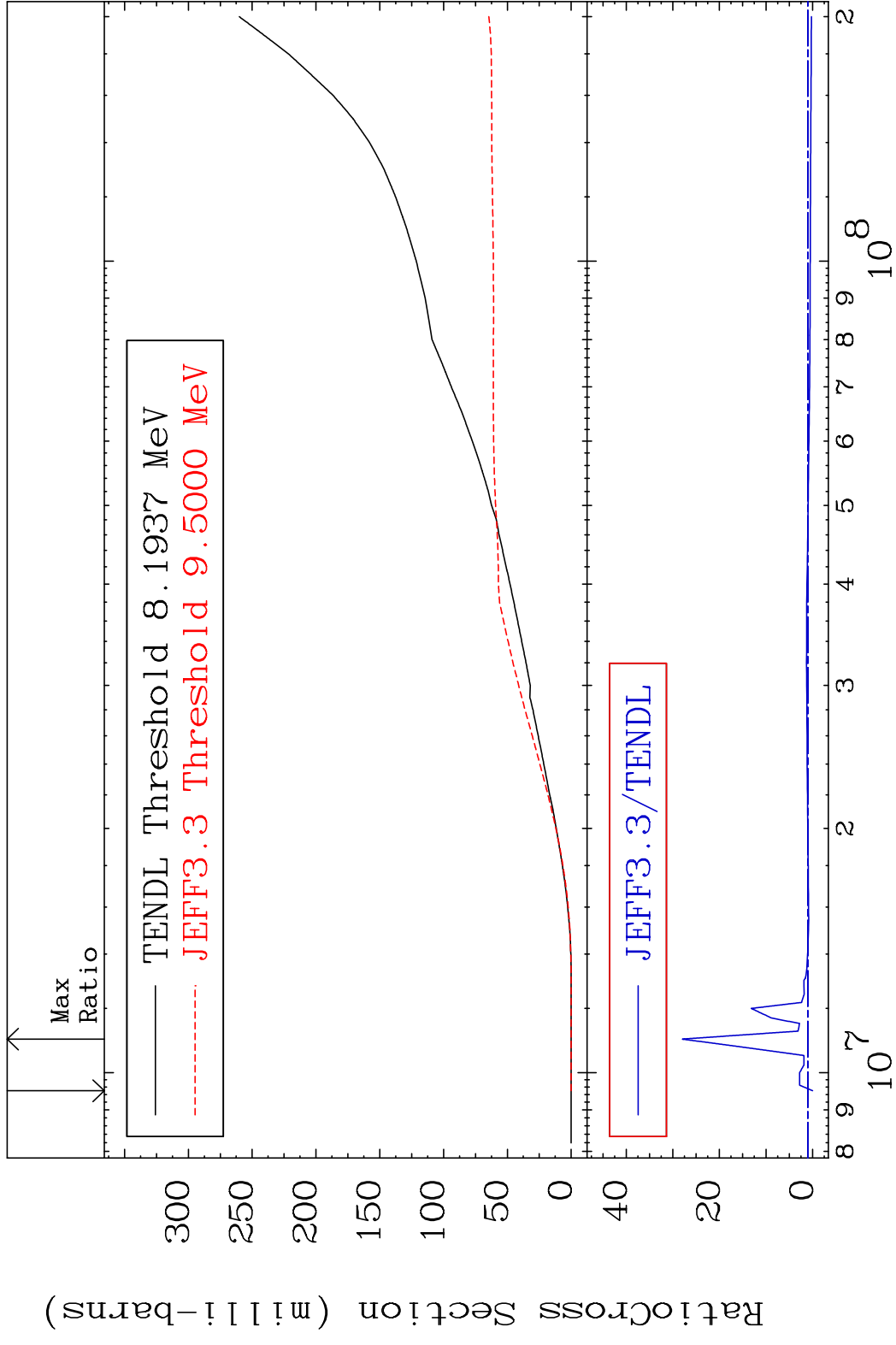
MAT 4037 Dpa disappearance (mt102 -120) 40-Zr-94  
 Cross Section -100.0 To 9999. %



39 Incident Energy (eV) 40-Zr-94

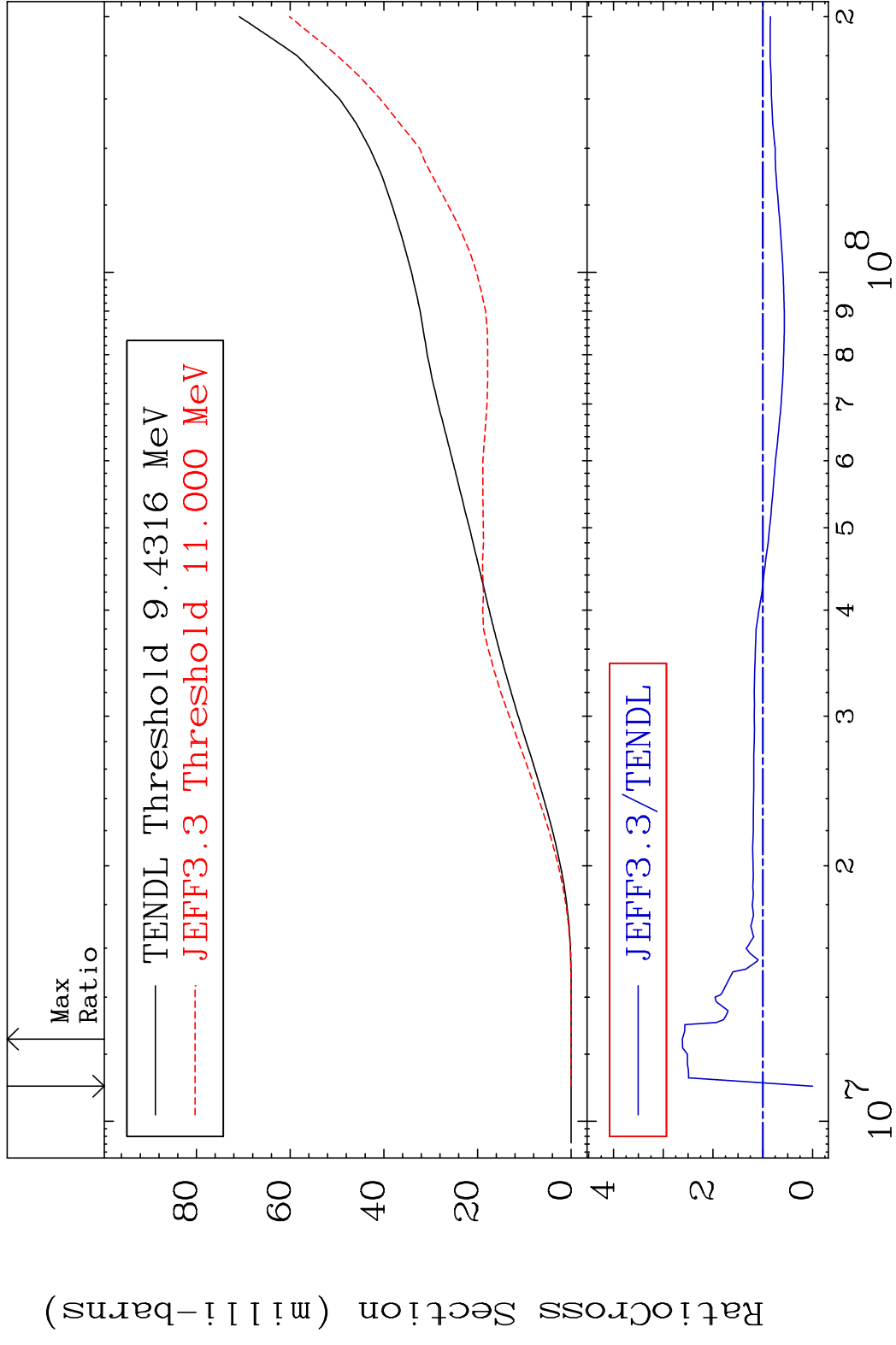


MAT 4037 Deuterium Production 40-Zr-94  
 Cross Section -100.0 To 2695. %



40 Incident Energy (eV) 40-Zr-94

MAT 4037 Tritium Production 40-Zr-94  
 Cross Section -100.0 To 161.7 %

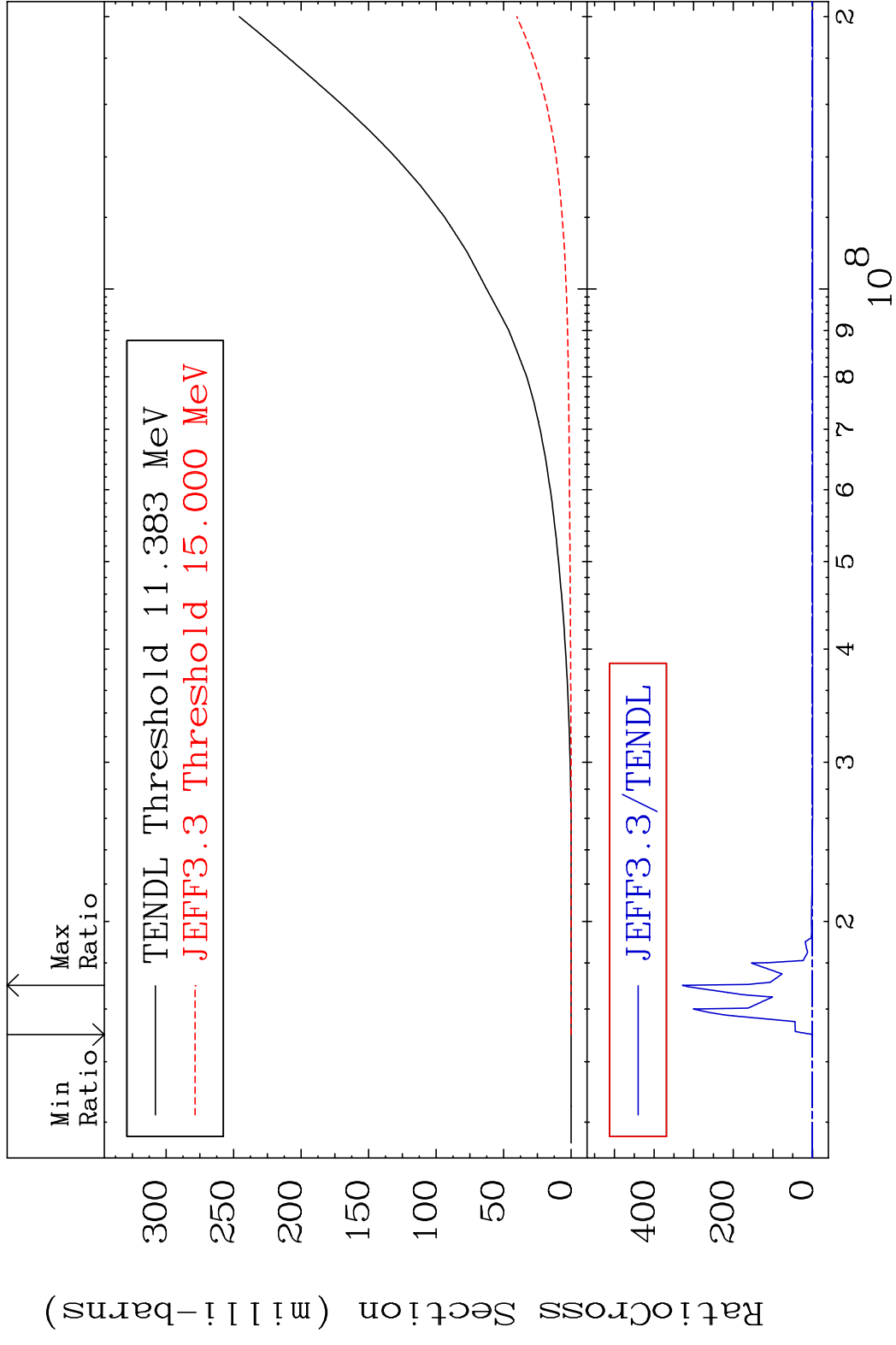


MAT 4037

He-3 Production

40-Zr-94

Cross Section -100.0 To 9999. %

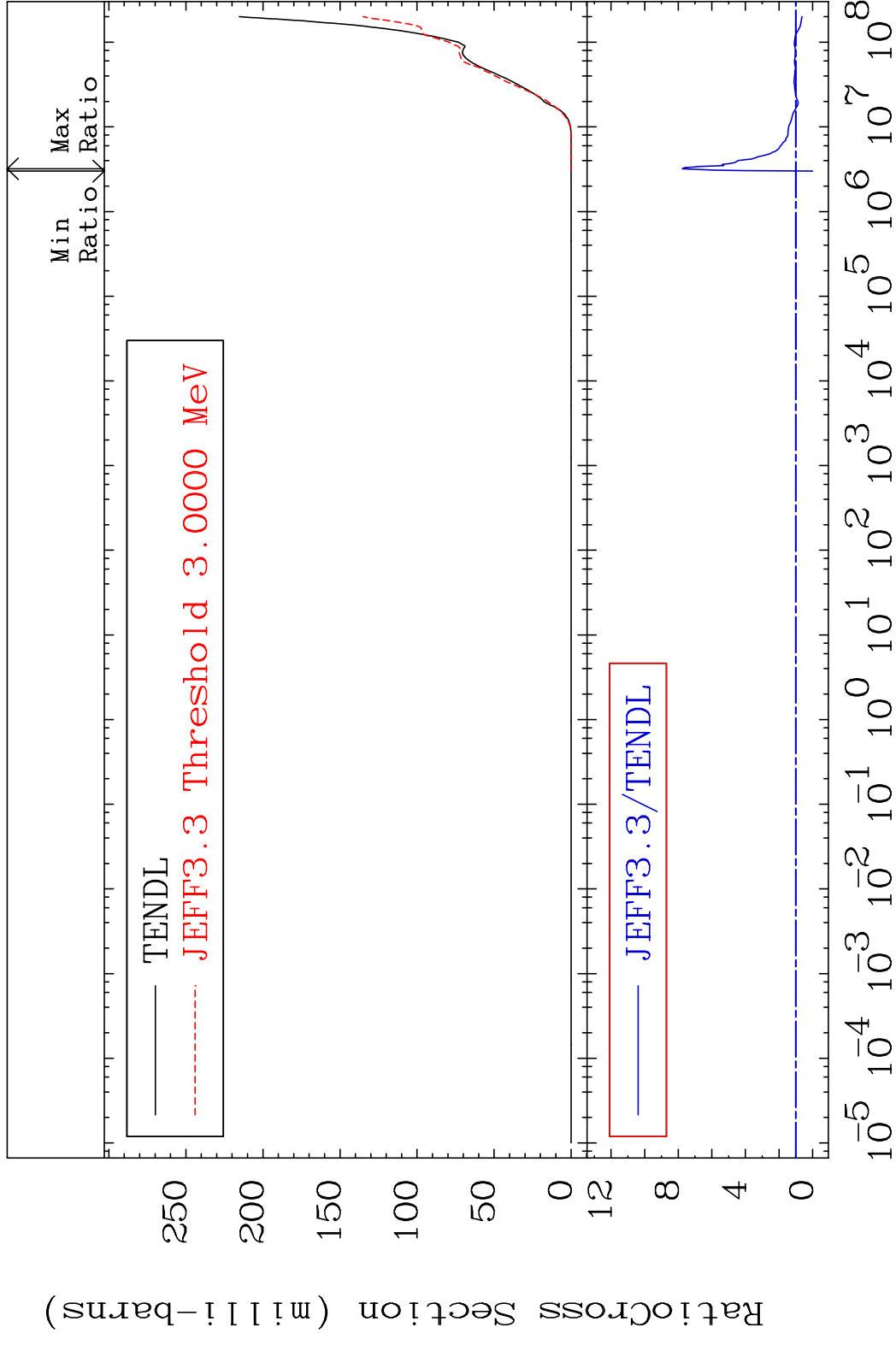


MAT 4037

He-4 Production

40-Zr-94

Cross Section -100.0 To 675.5 %

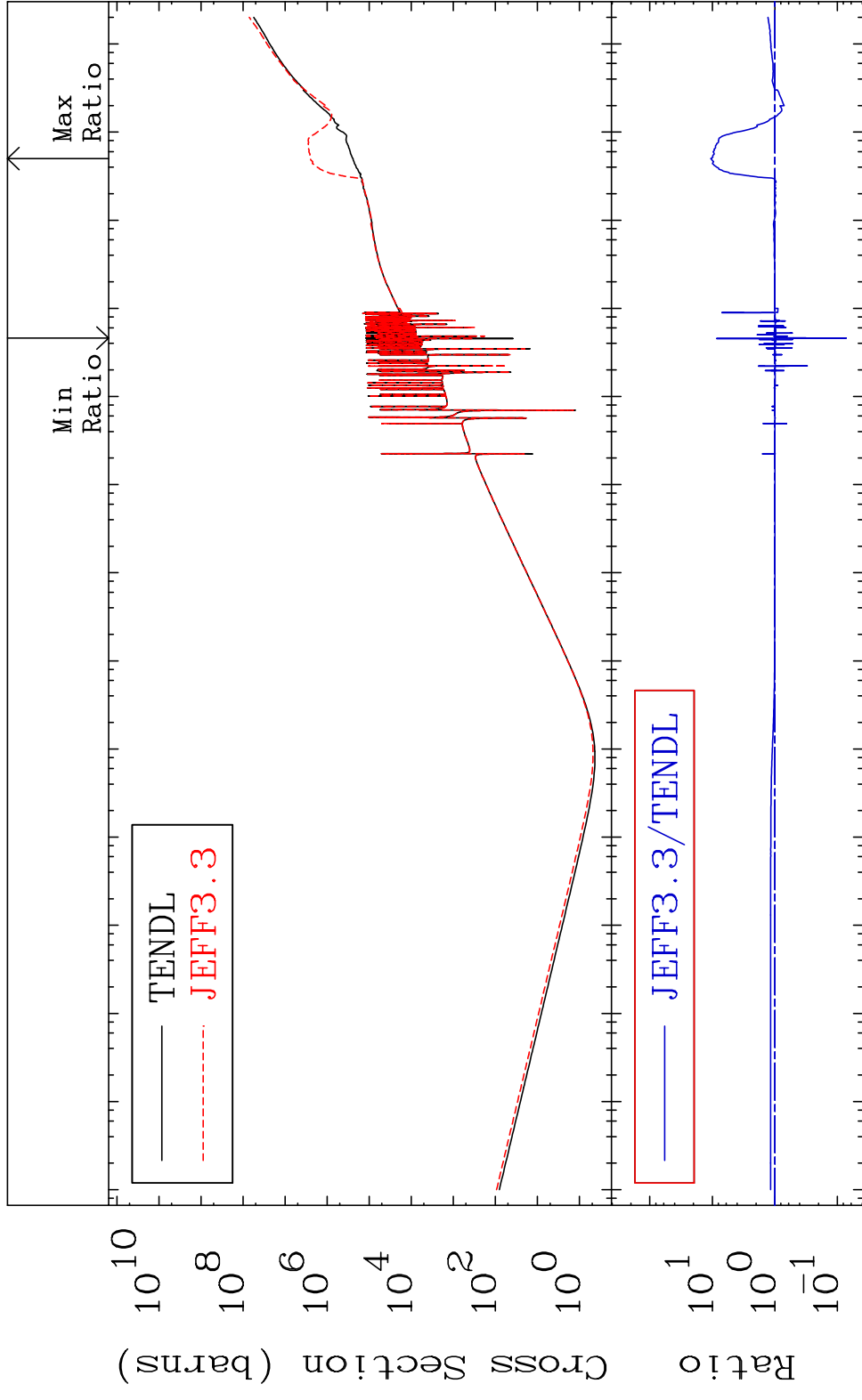


MAT 4037

Kerma total (eV-barns)

40-Zr-94

Cross Section -92.82 To 960.7 %



44

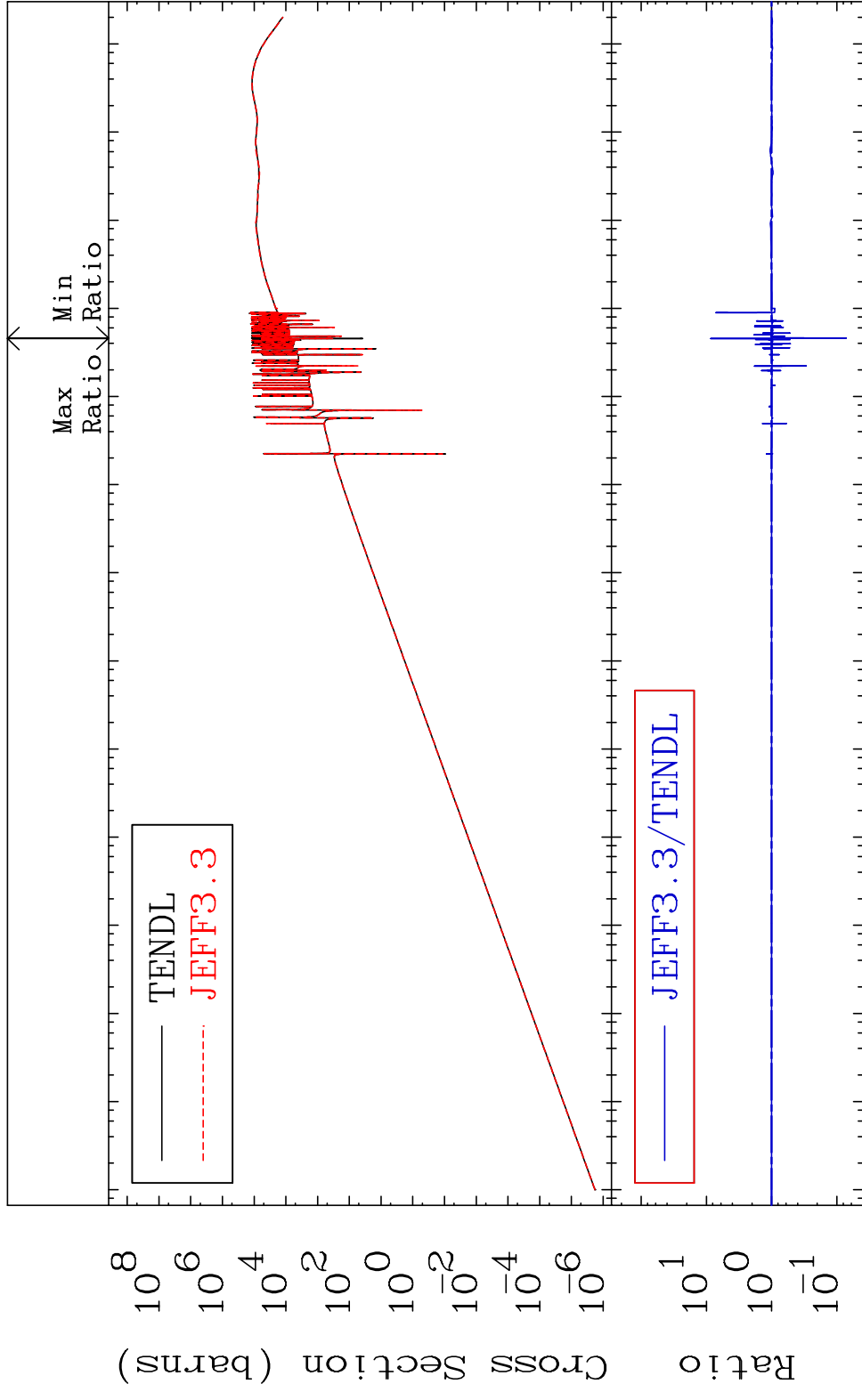
Incident Energy (eV)

40-Zr-94

MAT 4037

Kerma elastic  
Cross Section

40-Zr-94  
-92.82 To 758.7 %

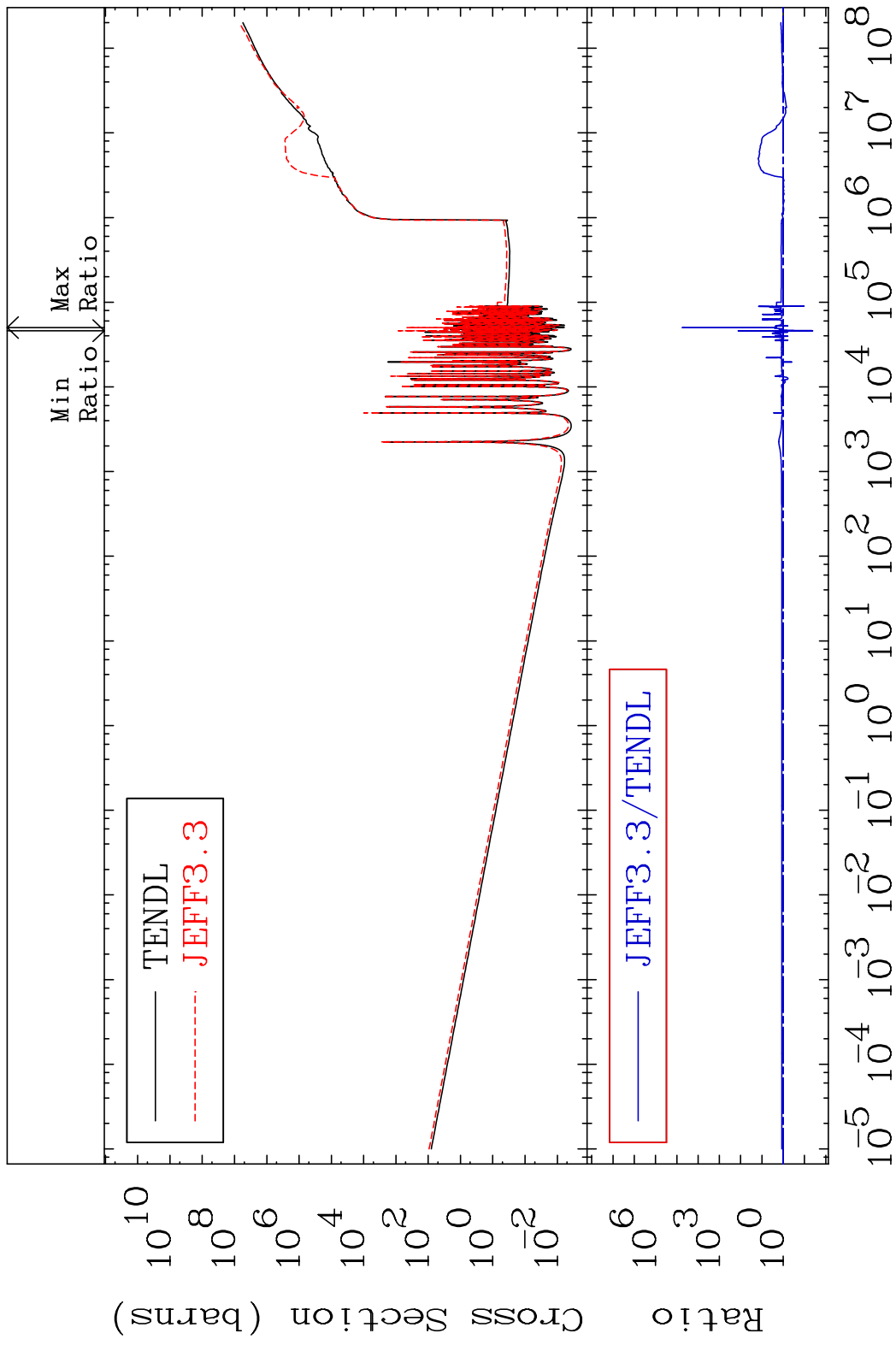


45

Incident Energy (eV)

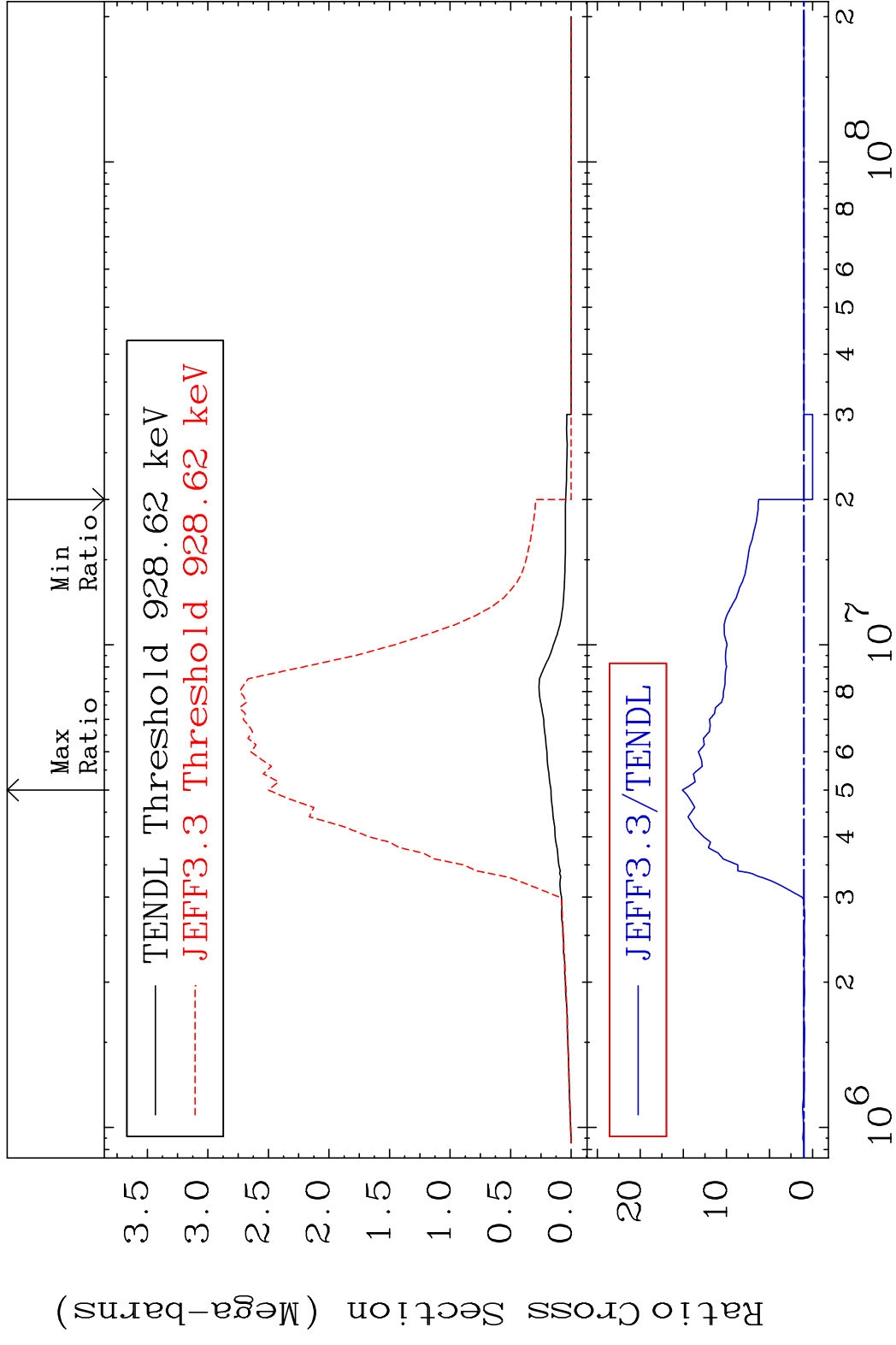
40-Zr-94

MAT 4037 Kerma non-elastic (all but mt2) 40-Zr-94  
 Cross Section -95.83 To 9999. %



46 Incident Energy (eV) 40-Zr-94

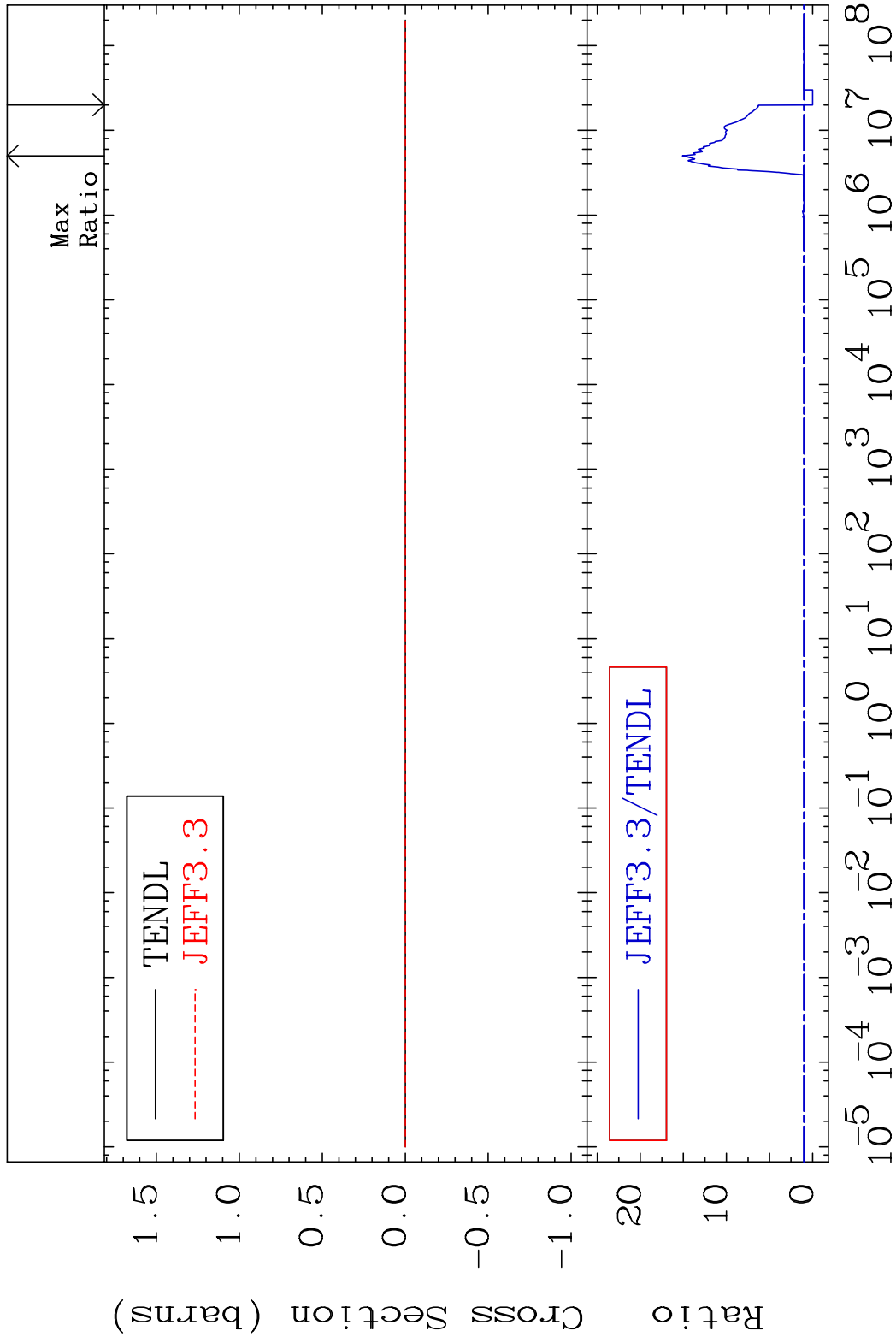
MAT 4037 Kerma inelastic (mt51-91) 40-Zr-94  
 Cross Section -100.0 To 1412. %



47 Incident Energy (eV) 40-Zr-94

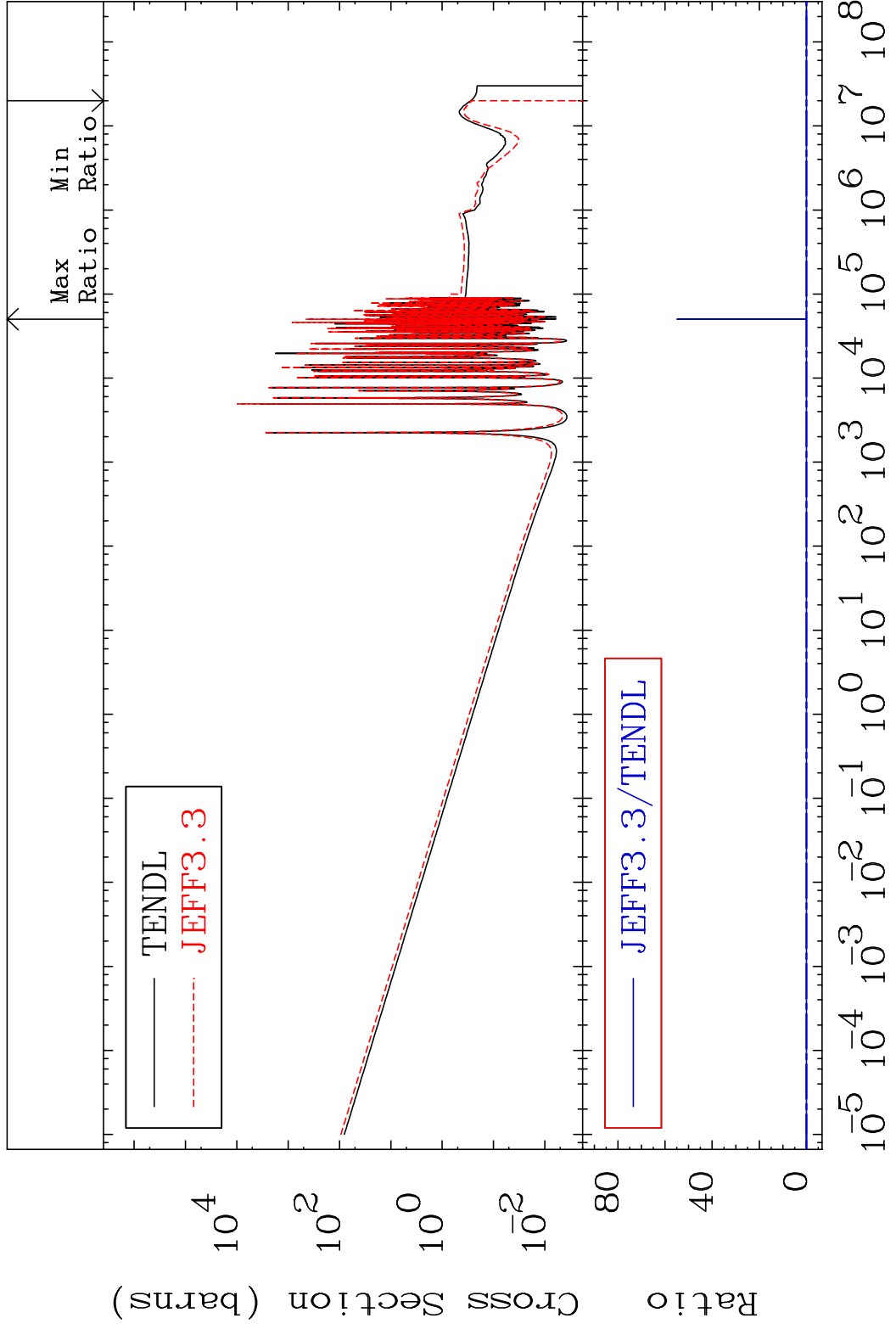


MAT 4037 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-94  
 Cross Section -100.0 To 1412. %



MAT 4037

Kerma capture (mt102) 40-Zr-94  
Cross Section -100.0 To 9999. %

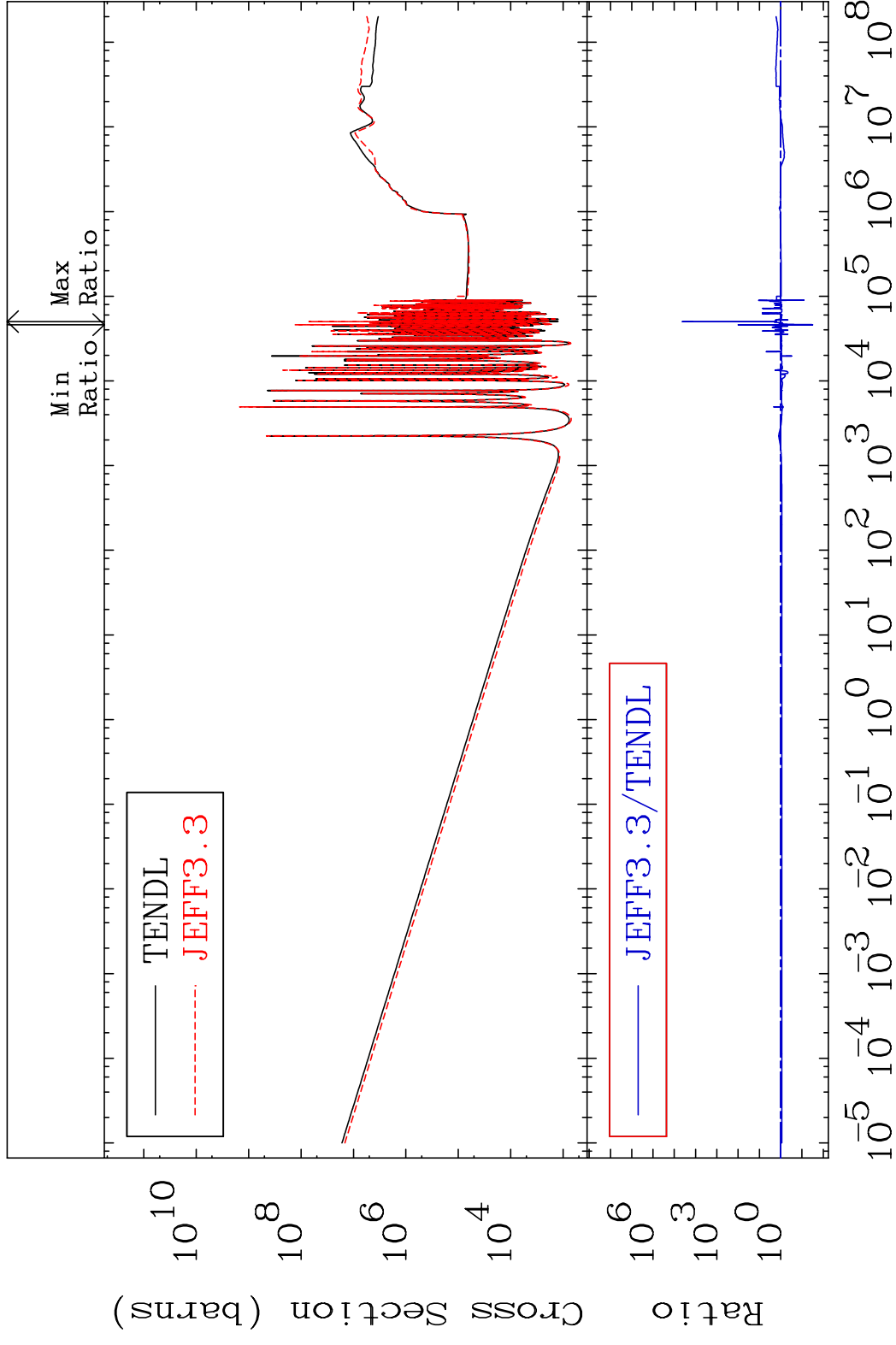


49

Incident Energy (eV)

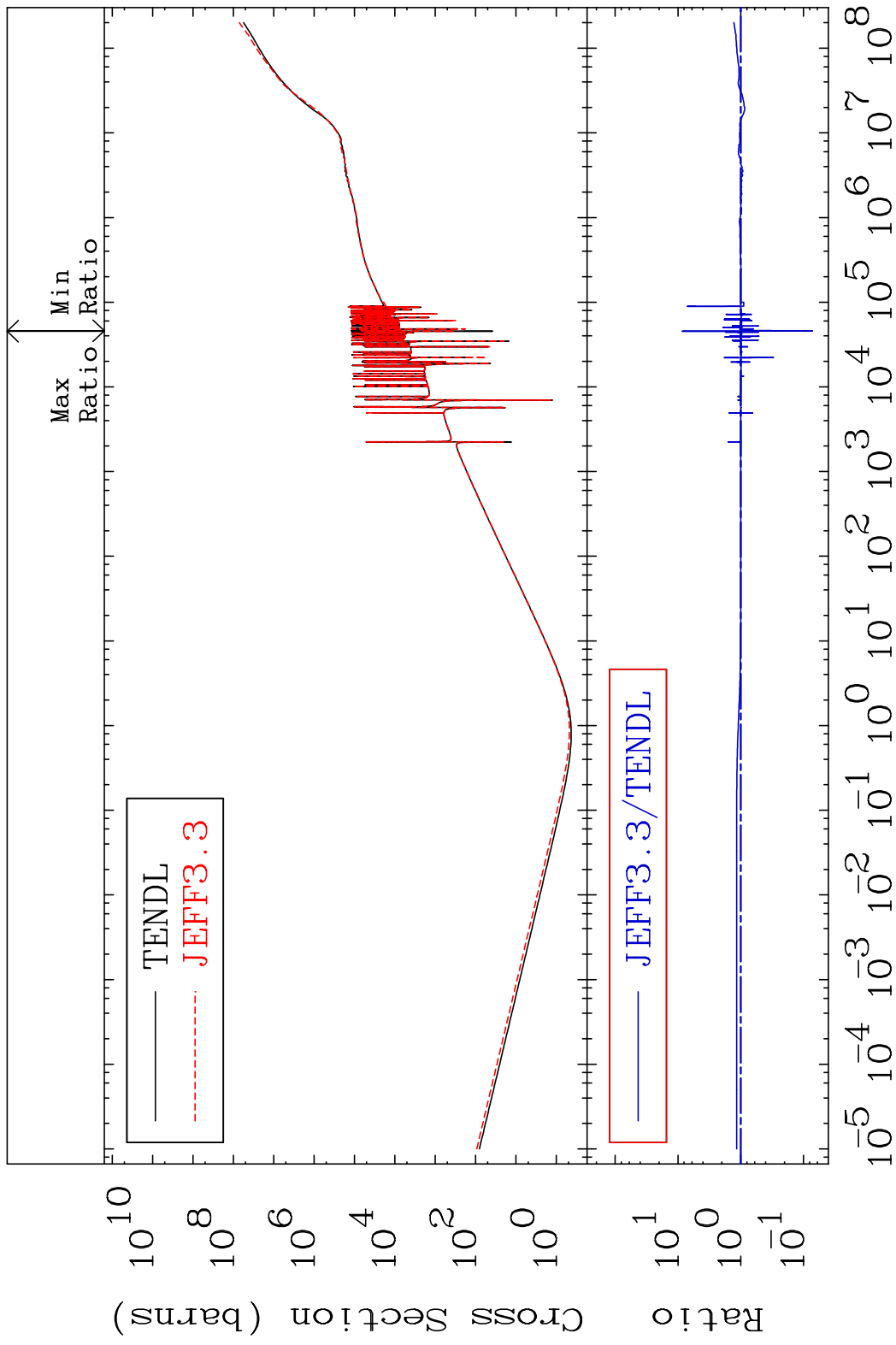
40-Zr-94

MAT 4037 Total photon (eV-barns) 40-Zr-94  
Cross Section -96.83 To 9999. %



50 Incident Energy (eV) 40-Zr-94

MAT 4037 Total kinematic kerma (high limit) 40-Zr-94  
 Cross Section -92.82 To 752.0 %

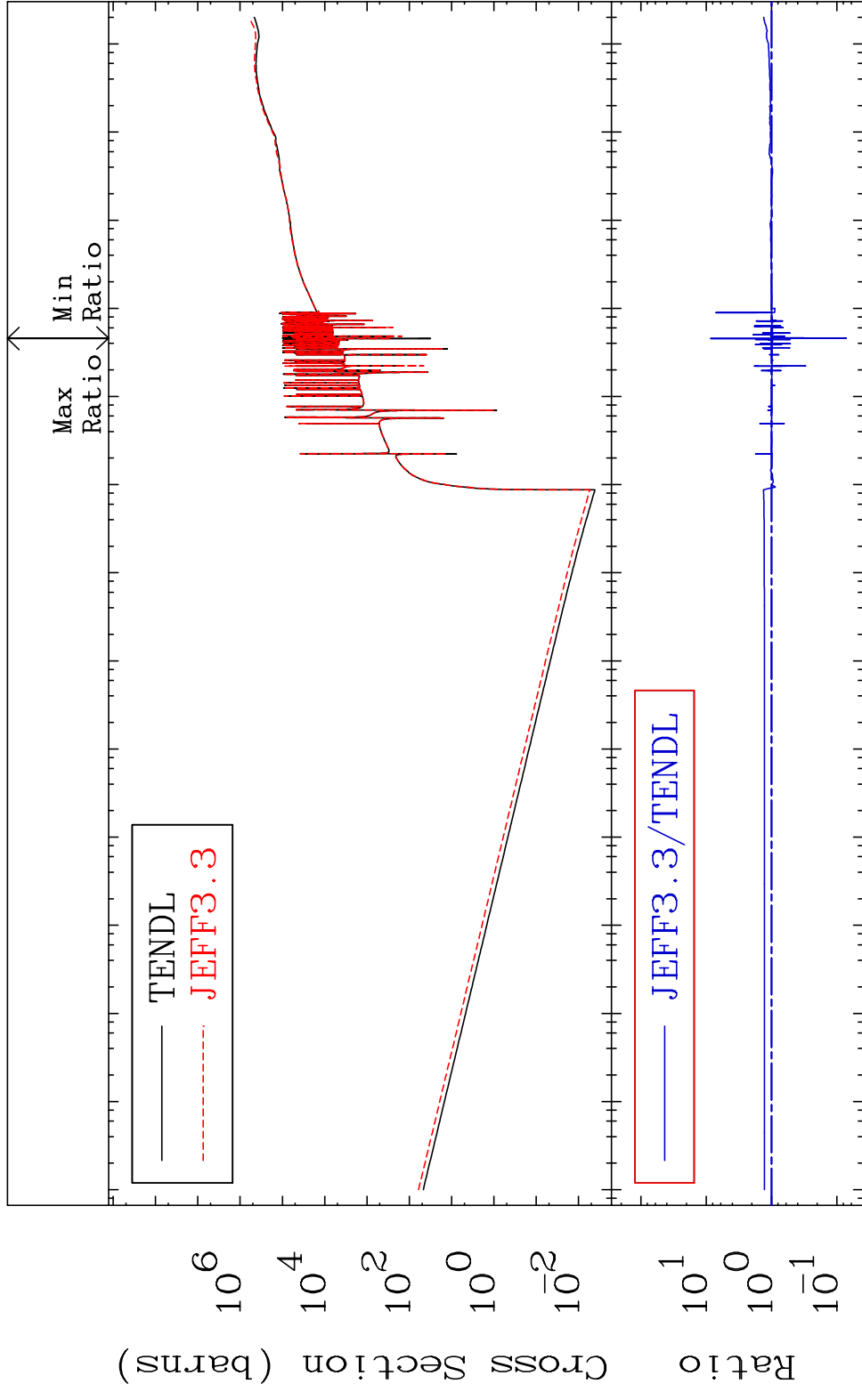


MAT 4037

Dpa total (eV-barns)

40-Zr-94

Cross Section -92.82 To 754.6 %

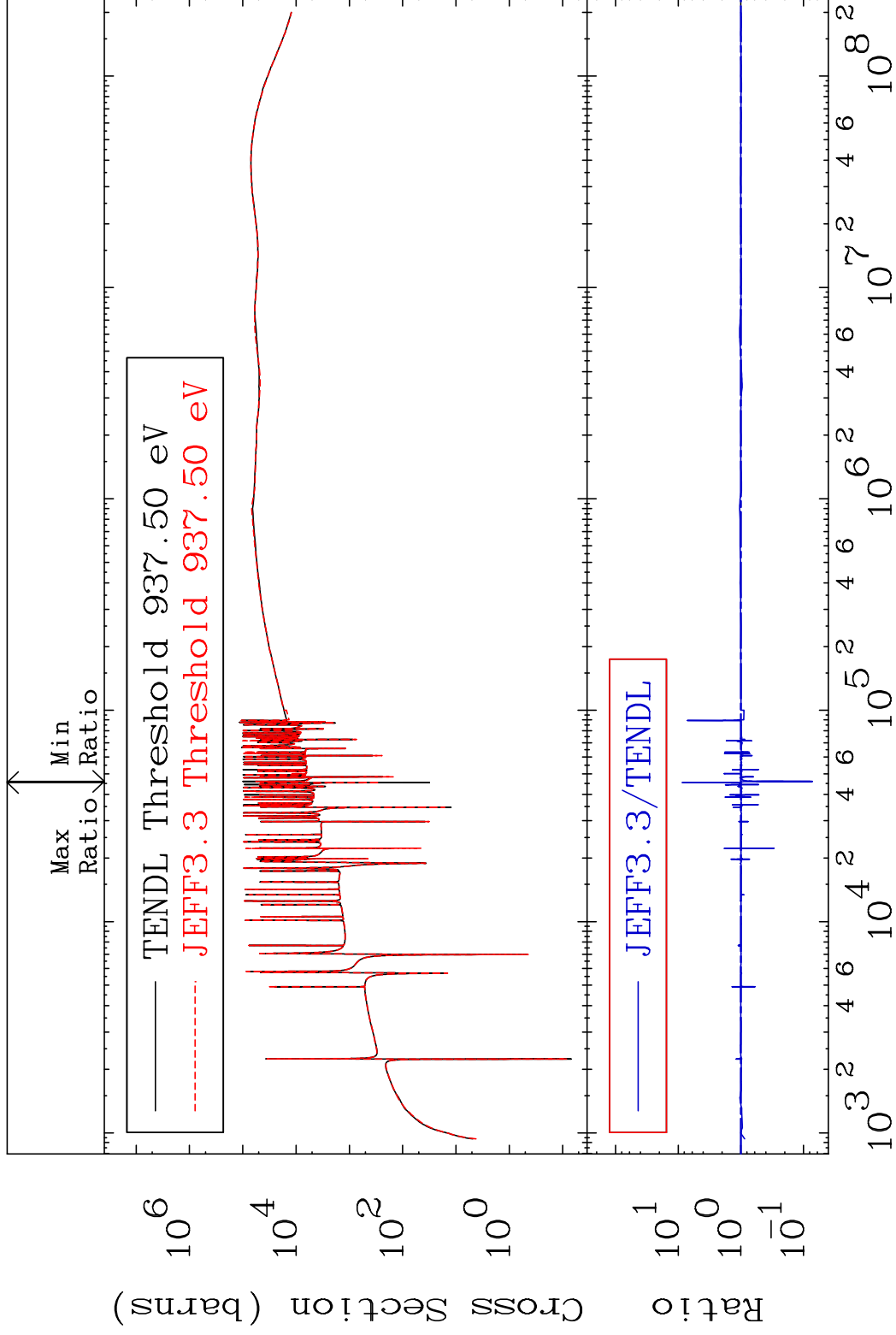


MAT 4037

Dpa elastic (mt2)

40-Zr-94

Cross Section -92.82 To 759.2 %

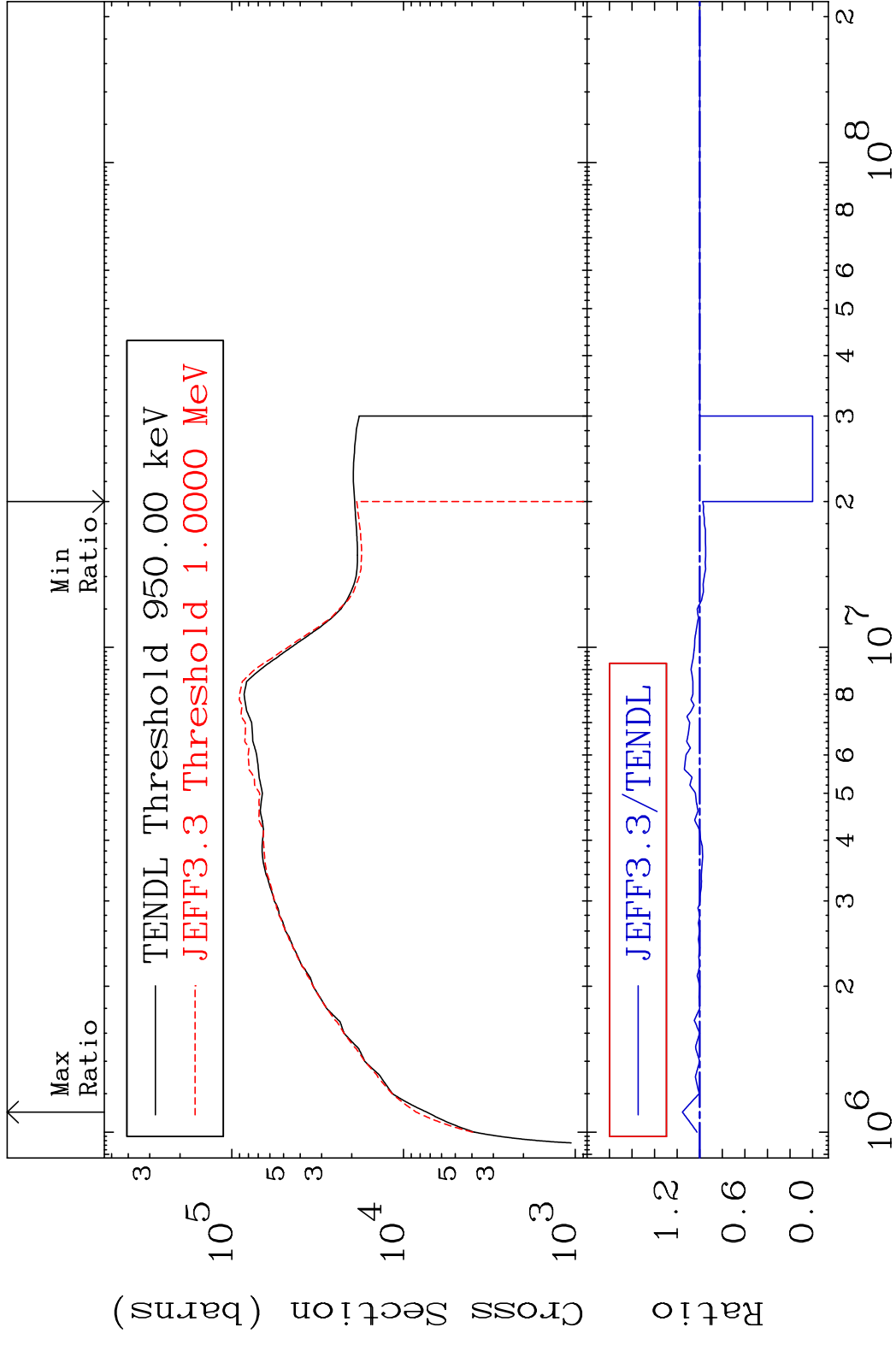


53

Incident Energy (eV)

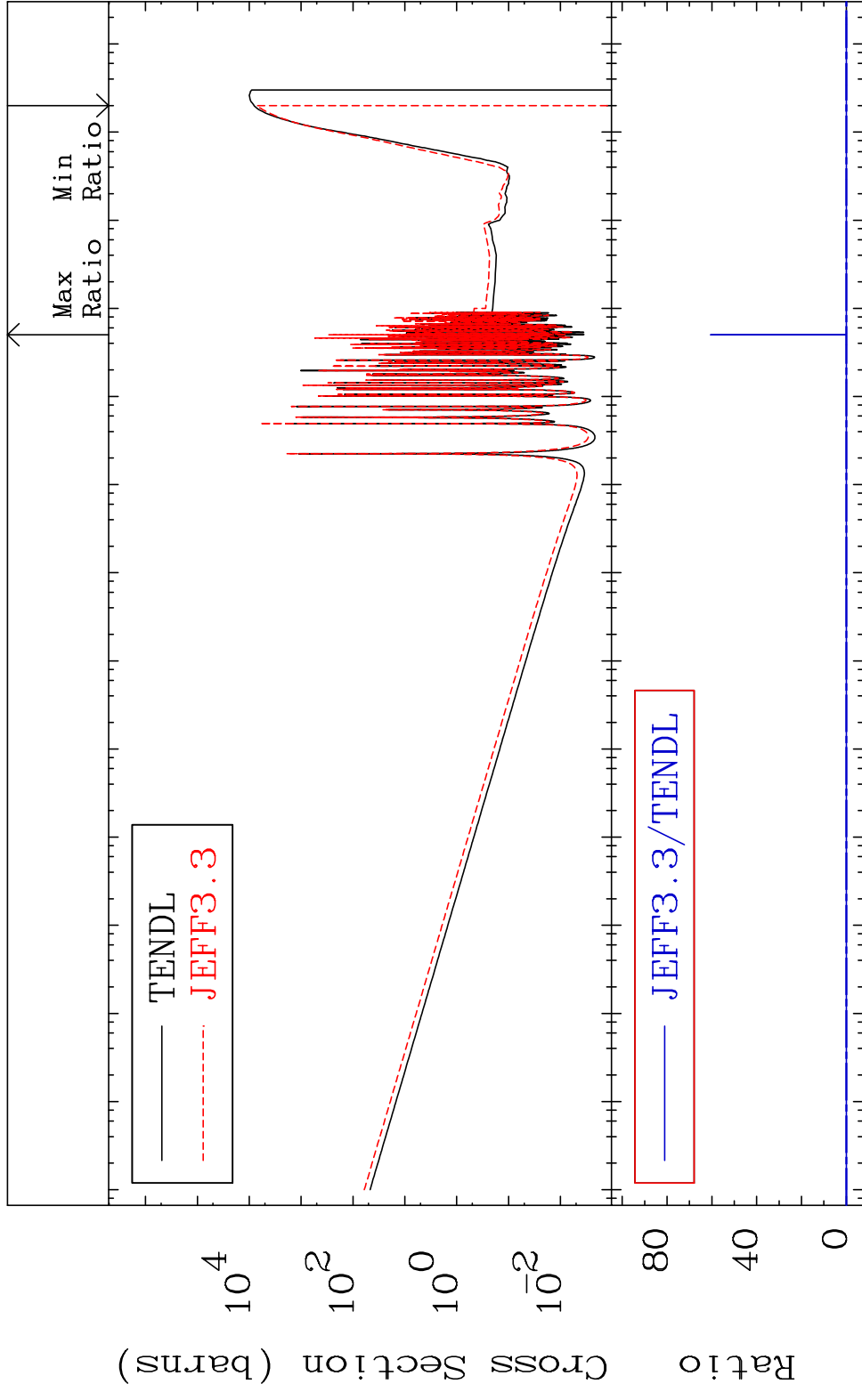
40-Zr-94

MAT 4037 Dpa inelastic (mt51-91) 40-Zr-94  
 Cross Section -100.0 To 15.33 %



54 Incident Energy (eV) 40-Zr-94

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



55 Incident Energy (eV) 40-Zr-94