

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

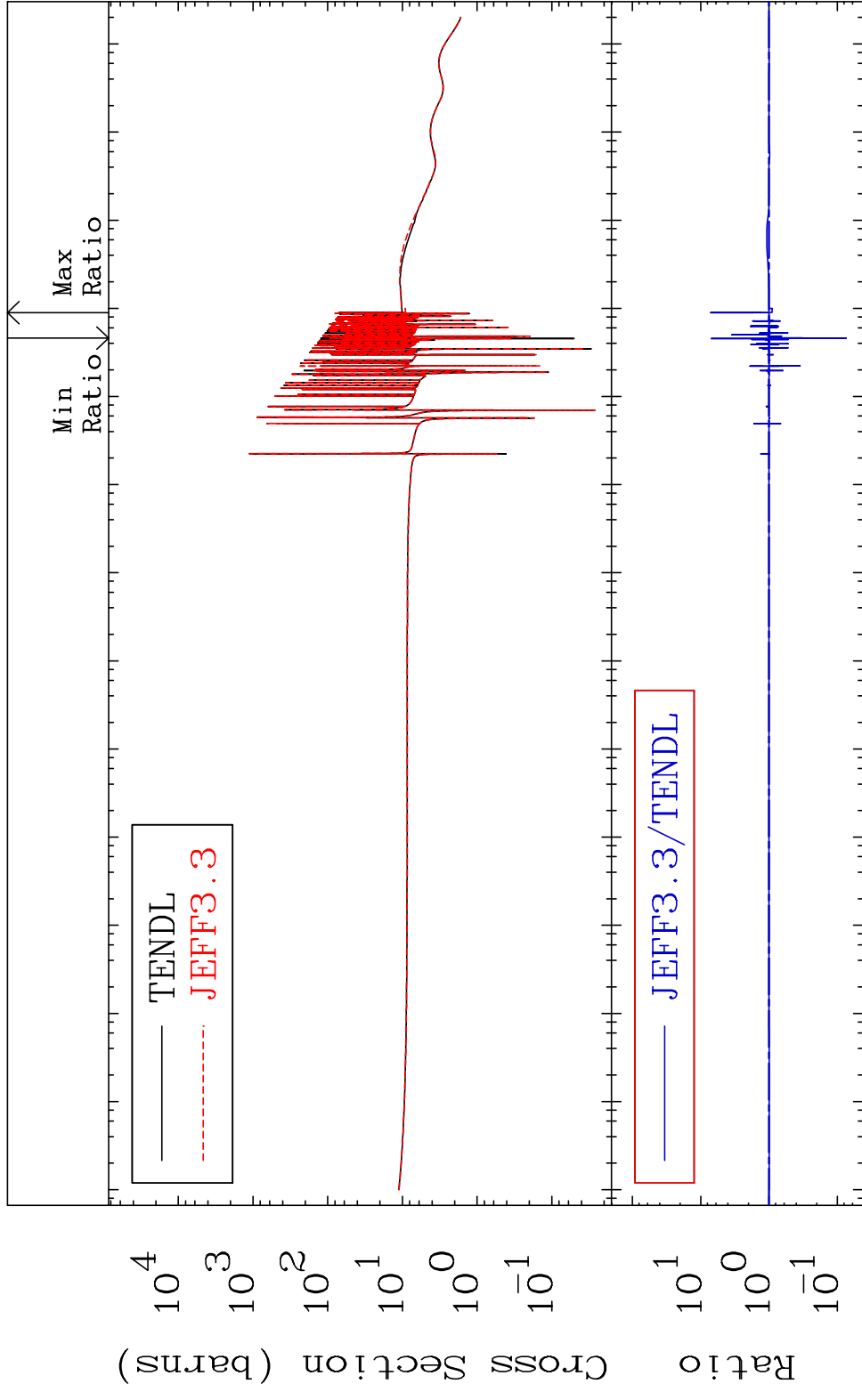
MAT 4037

Total

40-Zr-94

Cross Section

-92.60 To 613.8 %



1

Incident Energy (eV)

40-Zr-94

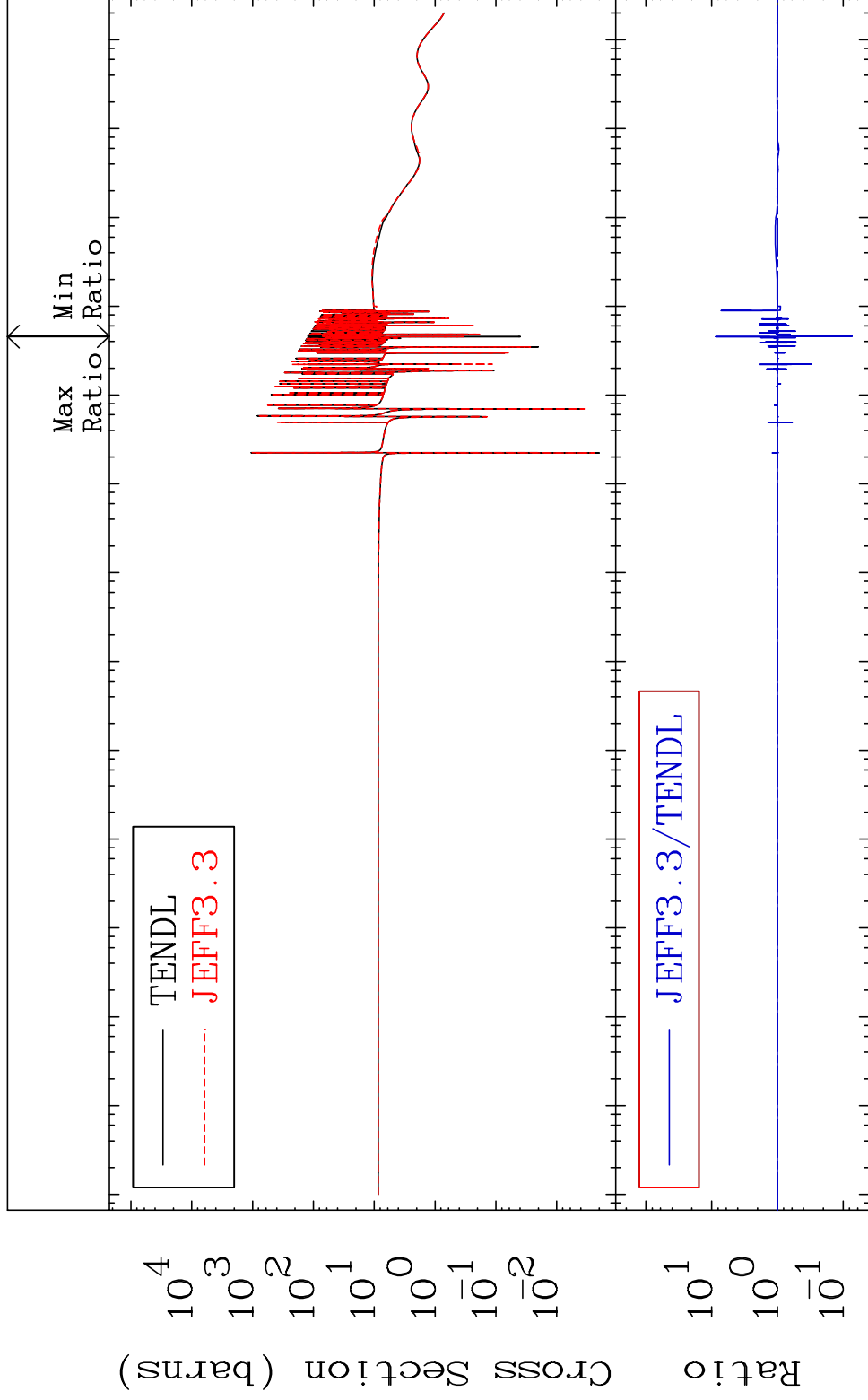
MAT 4037

Elastic

40-Zr-94

Cross Section

-92.74 To 769.0 %

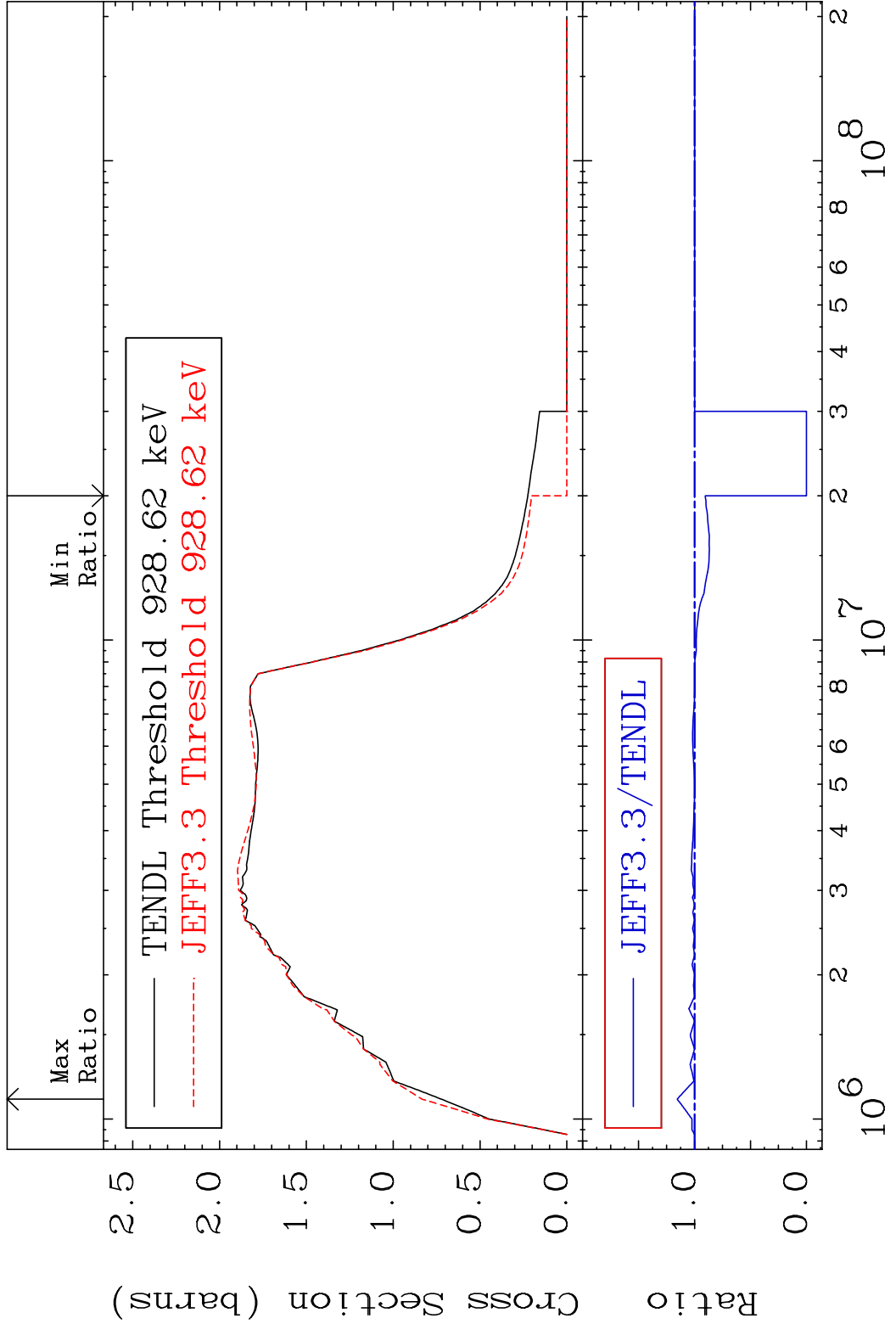


2

Incident Energy (eV)

40-Zr-94

MAT 4037 Inelastic Cross Section -100.0 To 15.51 % 40-Zr-94



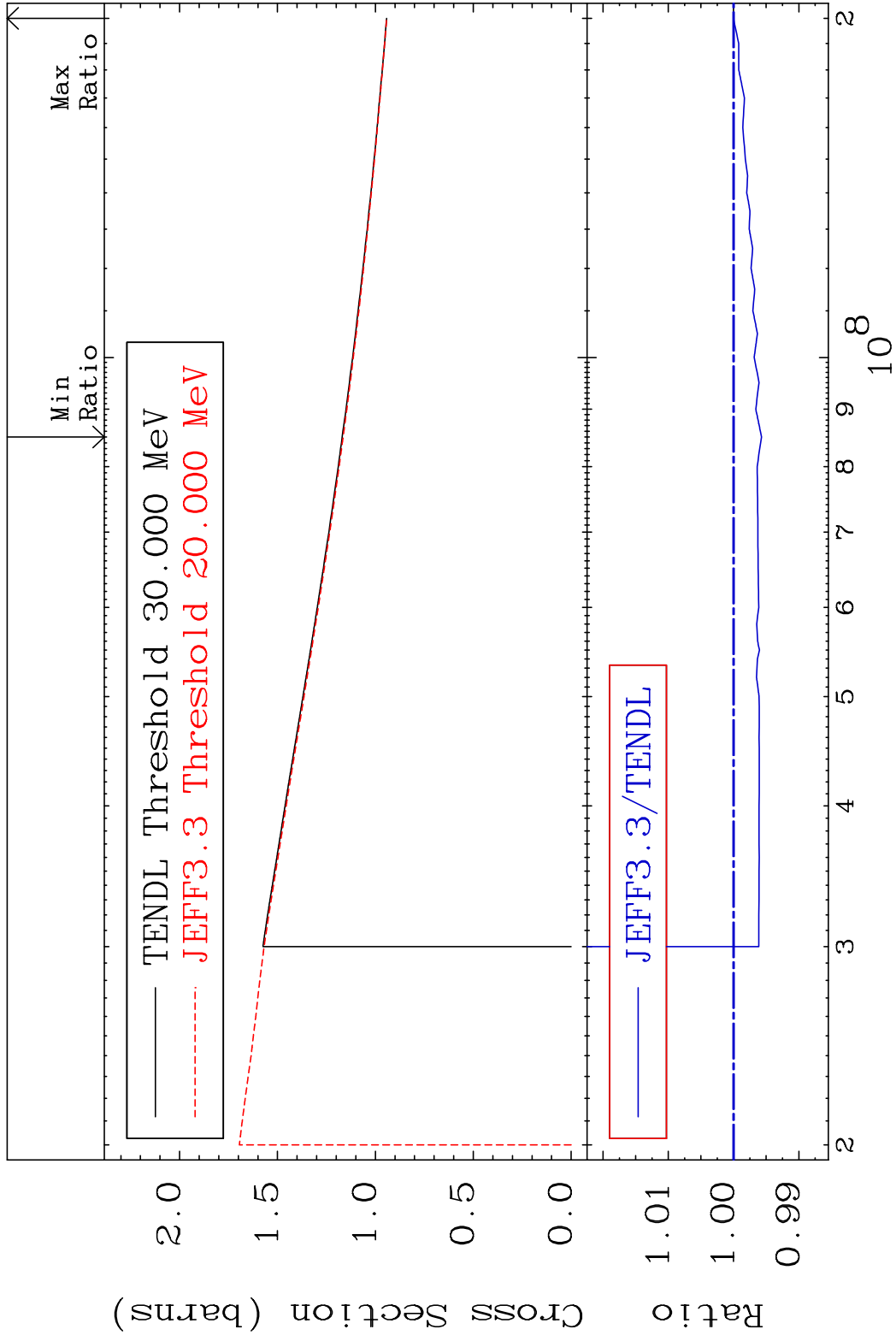
3 3 4 4 5 5 6 6 7 7 8 8 8 8 2 2 40-Zr-94

MAT 4037

(n, remainder)

40-Zr-94

Cross Section -0.428 To 0.002 %



4

Incident Energy (eV)

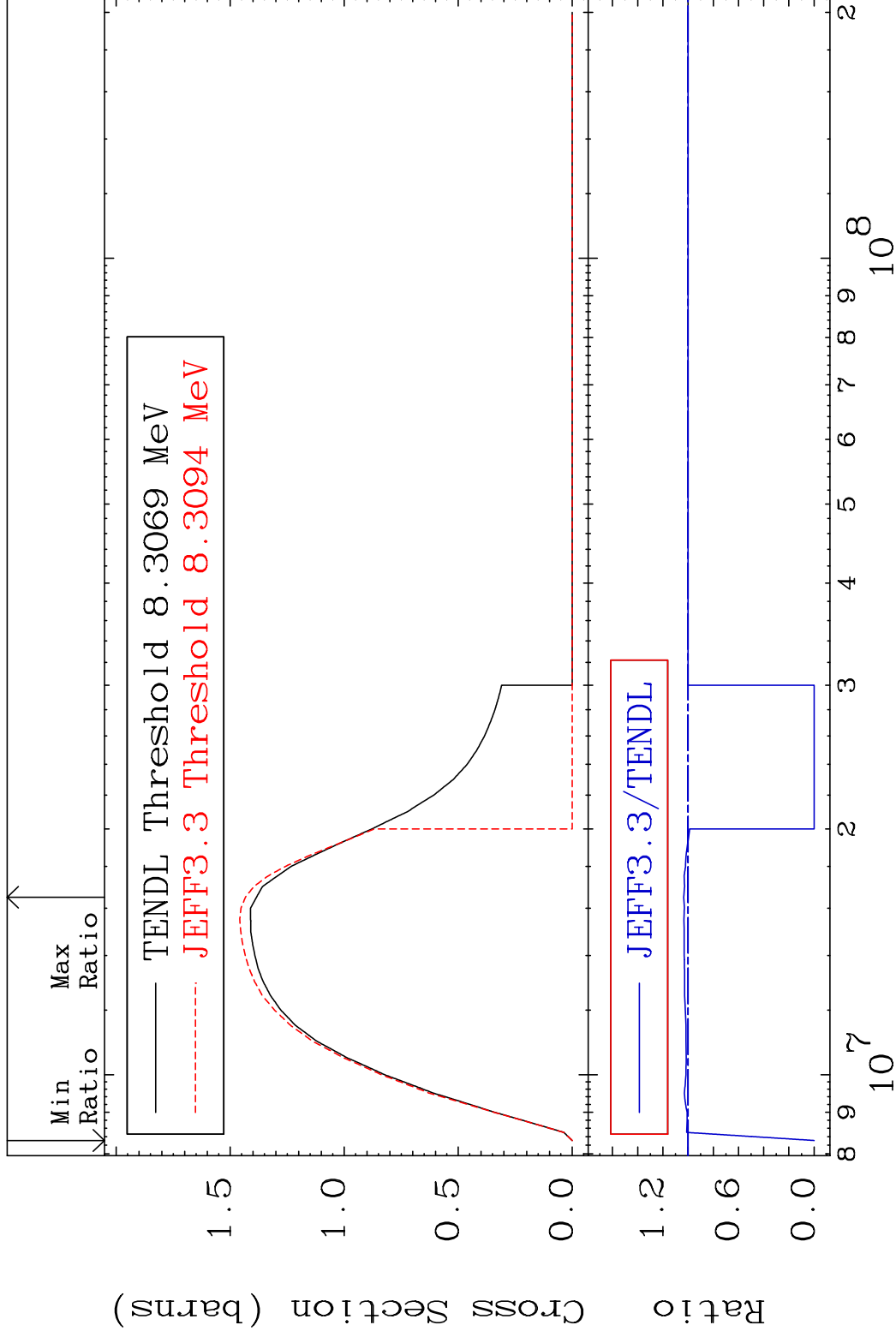
40-Zr-94

MAT 4037

(n,2n)

40-Zr-94

Cross Section -100.0 To 3.513 %

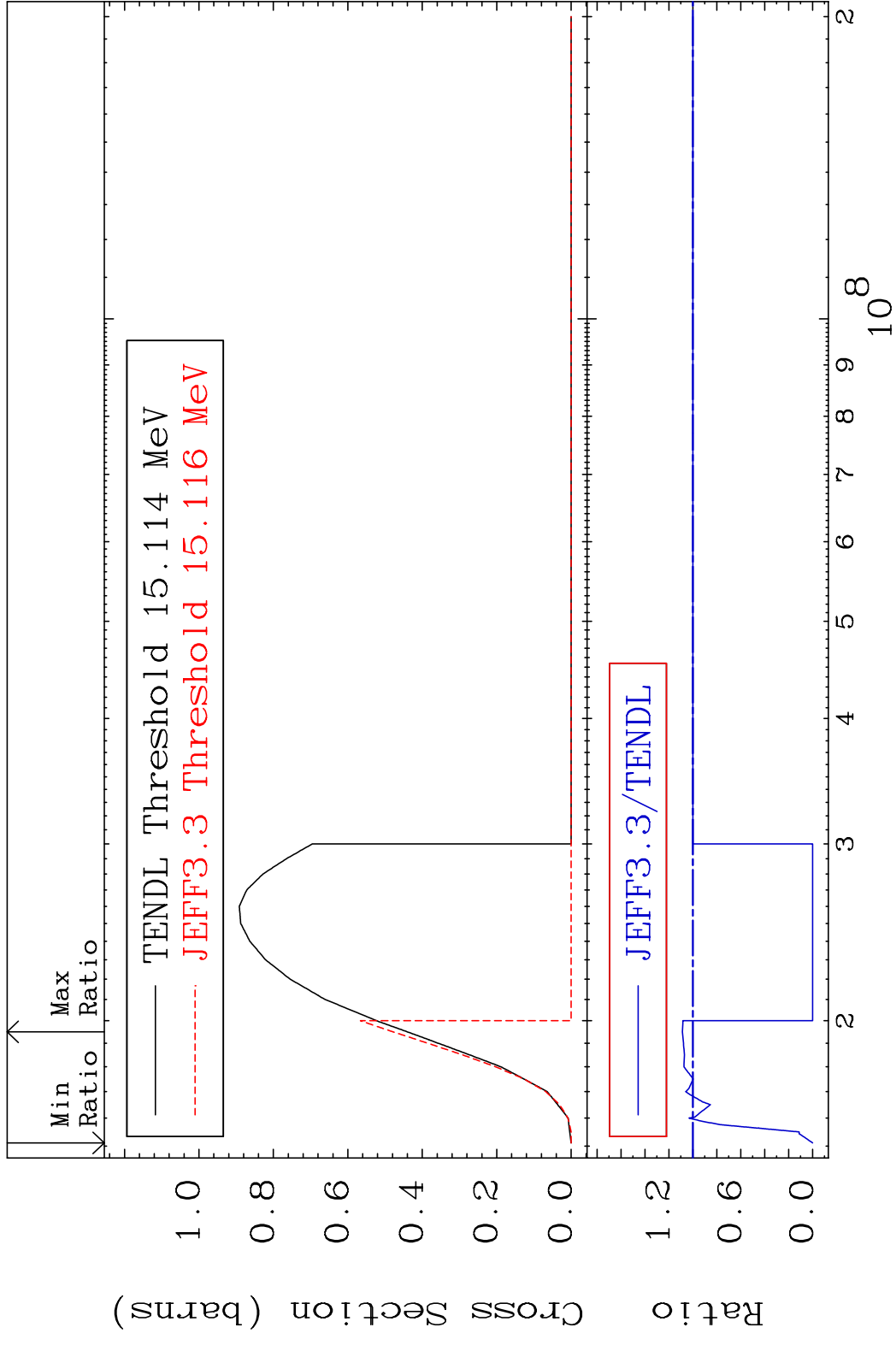


5

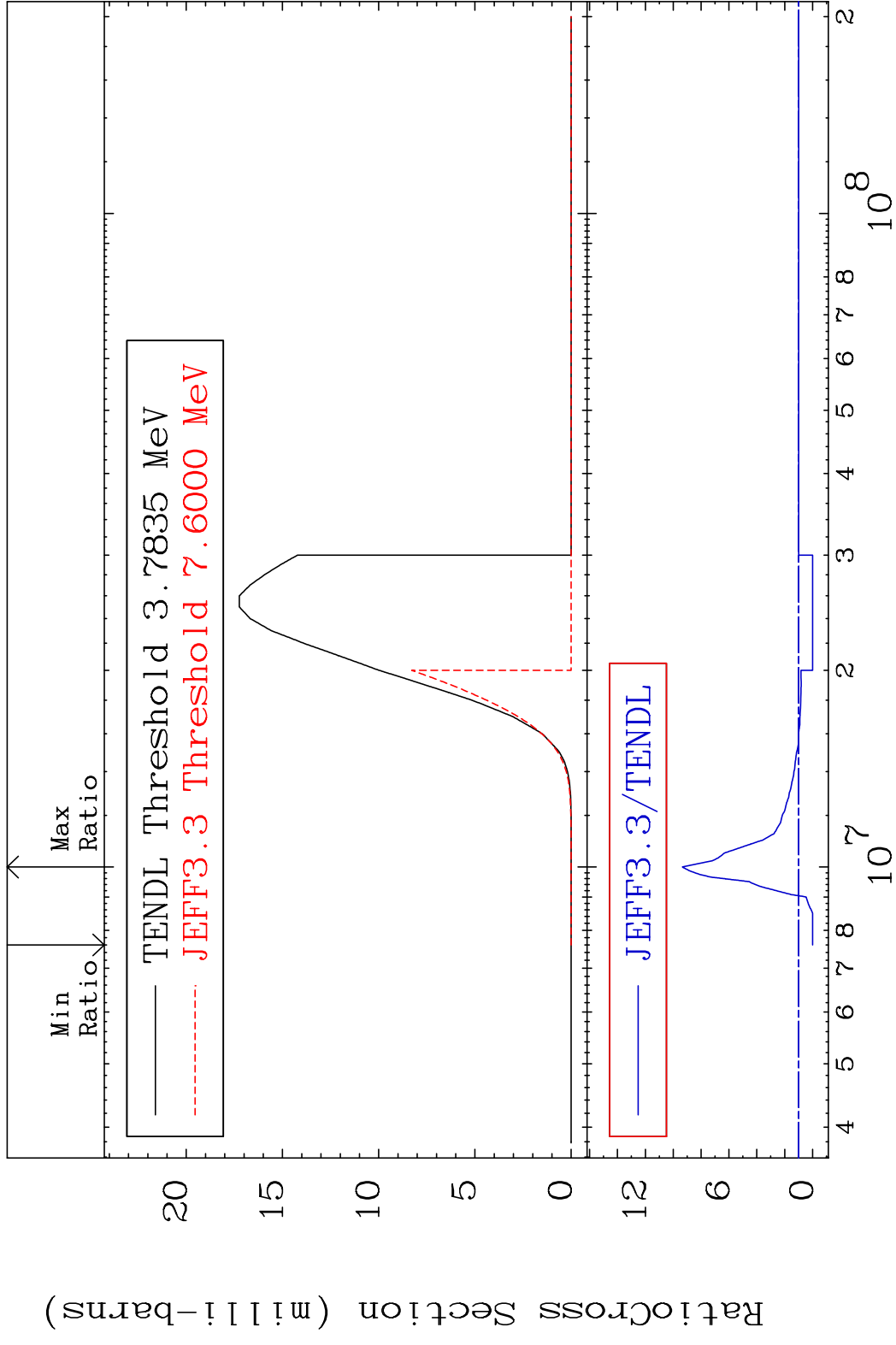
Incident Energy (eV)

40-Zr-94

MAT 4037 (n,3n) 40-Zr-94
 Cross Section -100.0 To 8.769 %

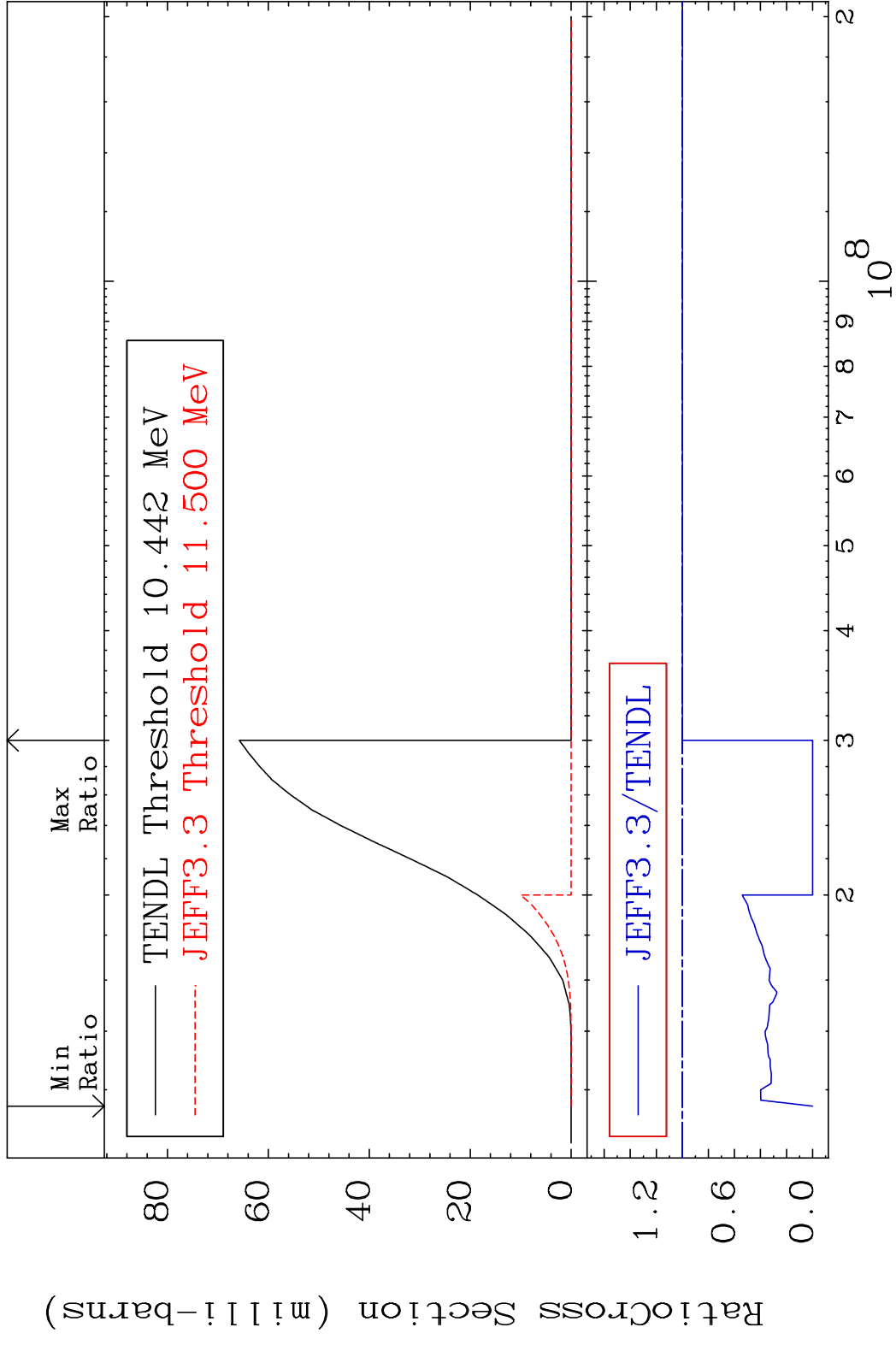


MAT 4037 (n, n') α 40-Zr-94
 Cross Section -100.0 To 834.4 %

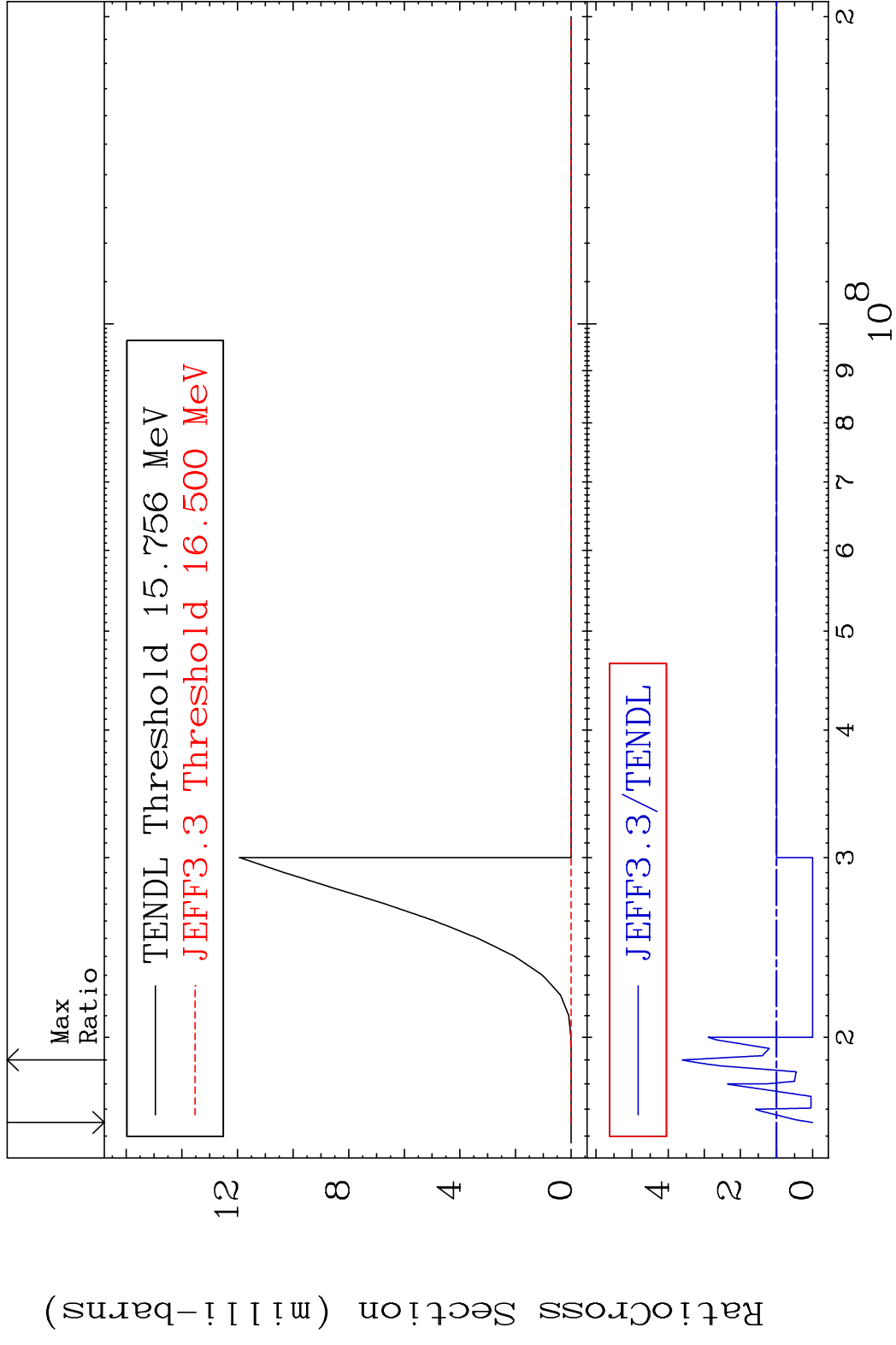


7 Incident Energy (eV) 40-Zr-94

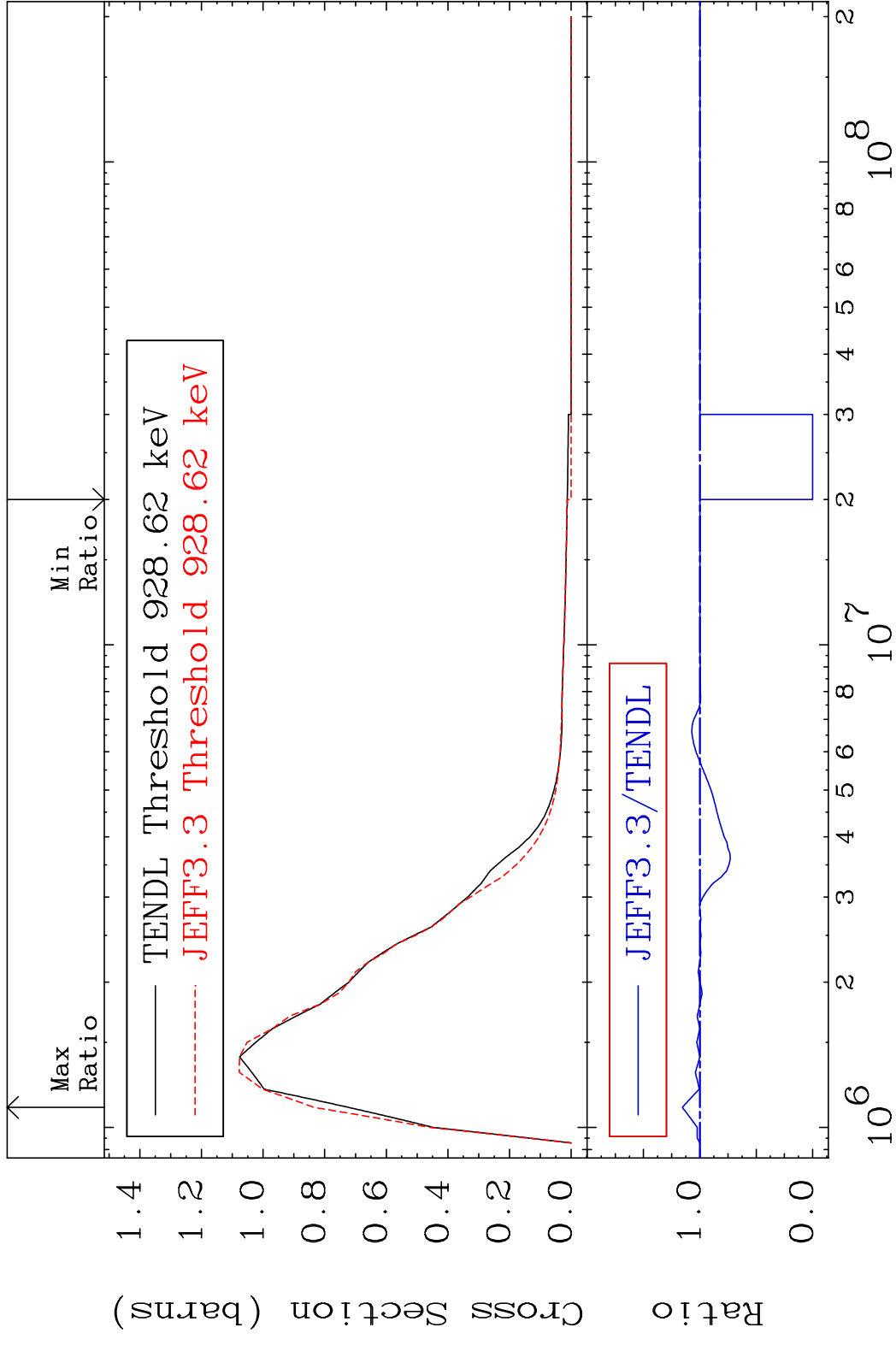
MAT 4037 (n, n') p 40-Zr-94
 Cross Section -100.0 To 0.000 %



MAT 4037 (n, n') d 40-Zr-94
 Cross Section -100.0 To 260.7 %

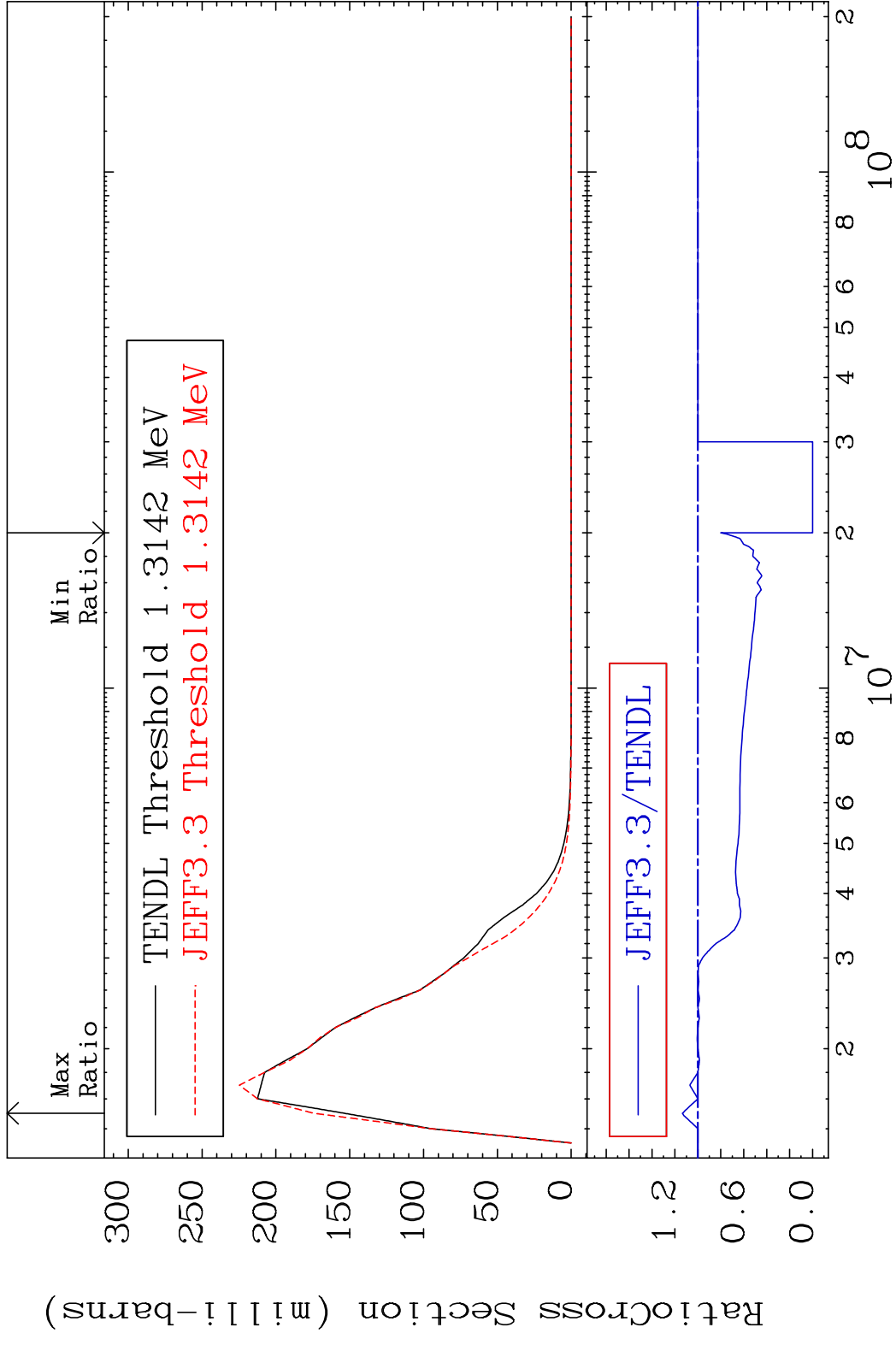


MAT 4037 MT= 51 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 15.51 %

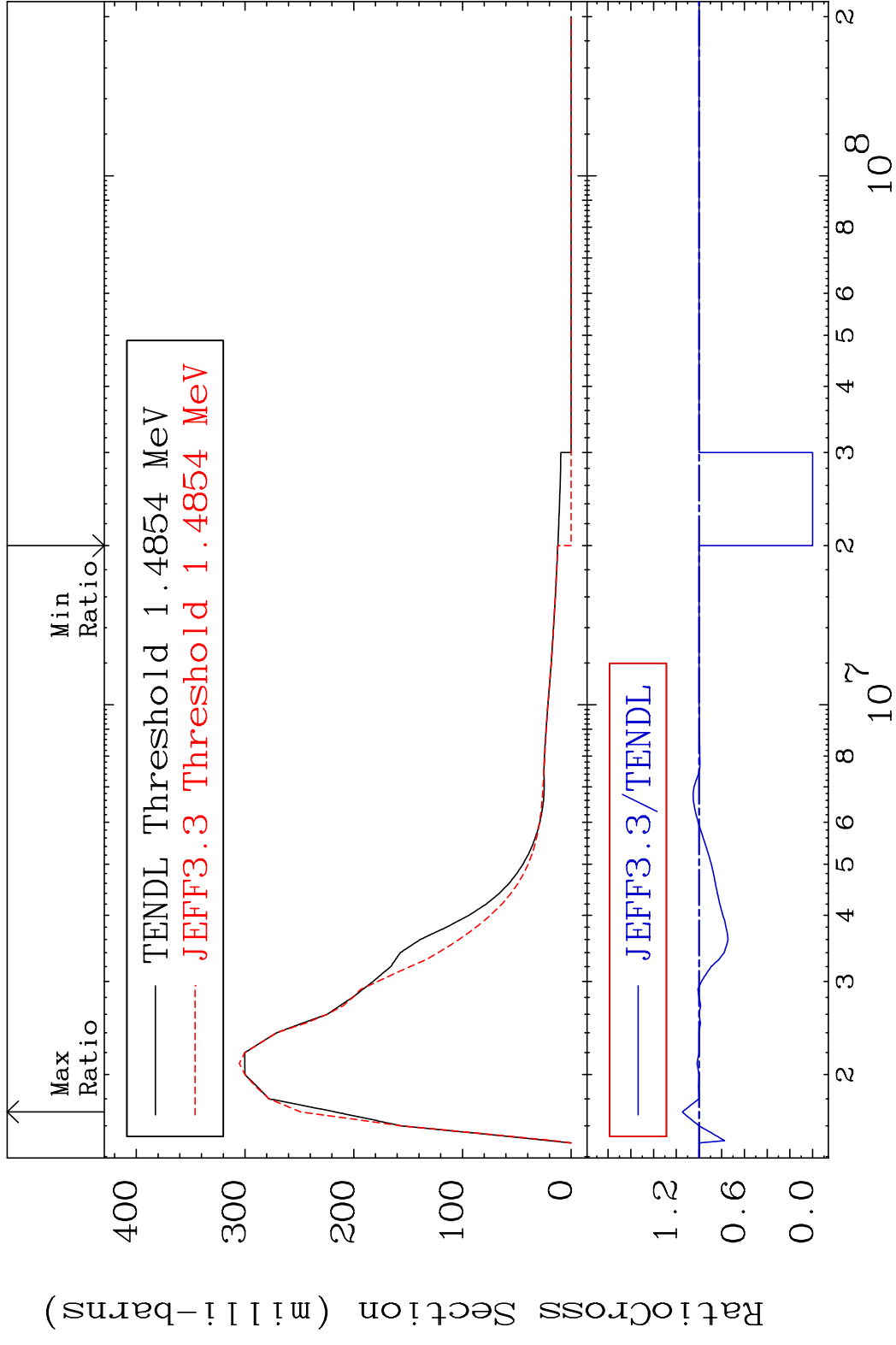


11 Incident Energy (eV) 40-Zr-94

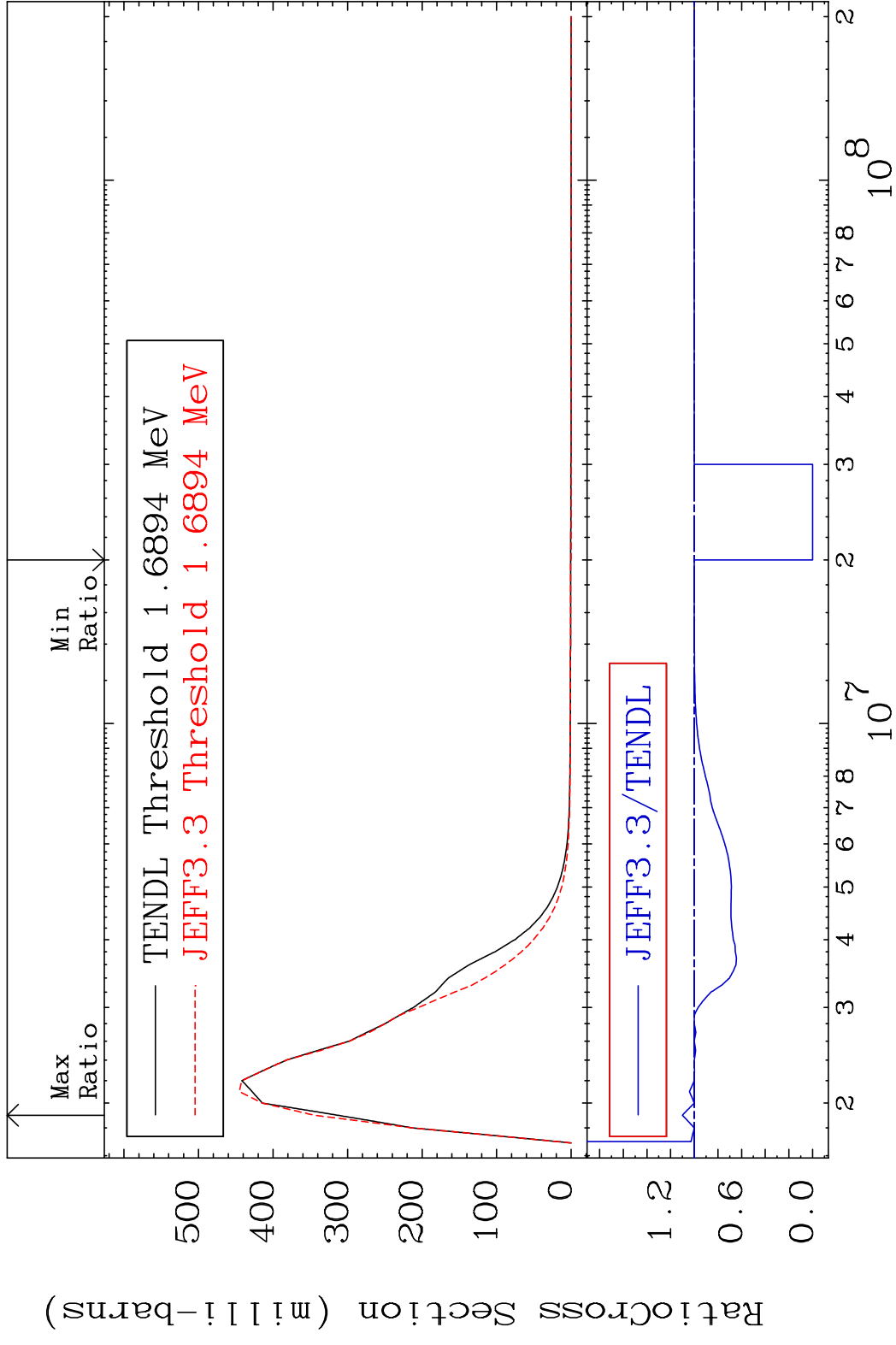
MAT 4037 MT= 52 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 13.52 %



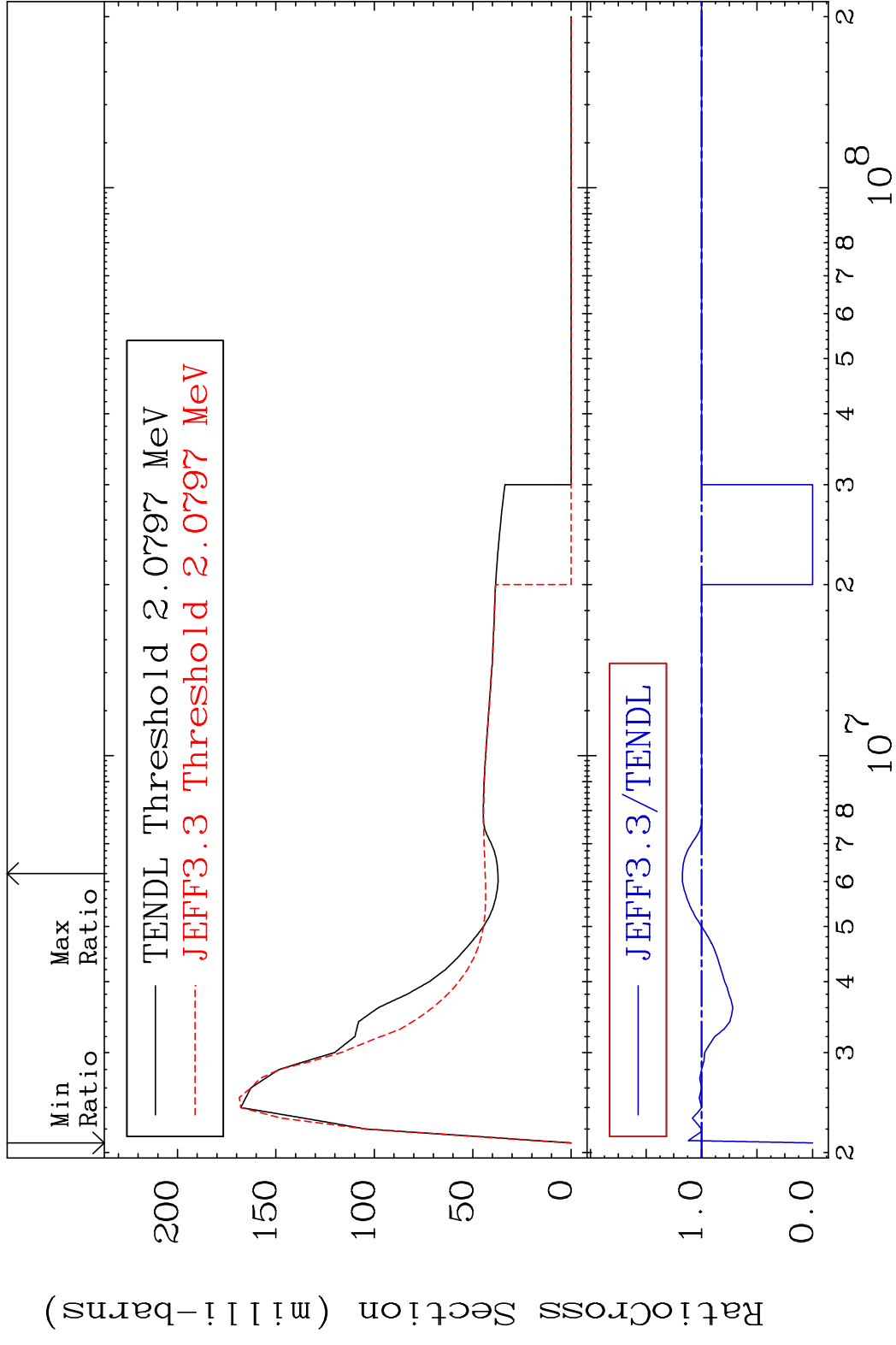
MAT 4037 MT= 53 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 14.65 %



MAT 4037 MT= 54 (n,n') Level 40-Zr-94
 Cross Section -100.0 To 10.06 %

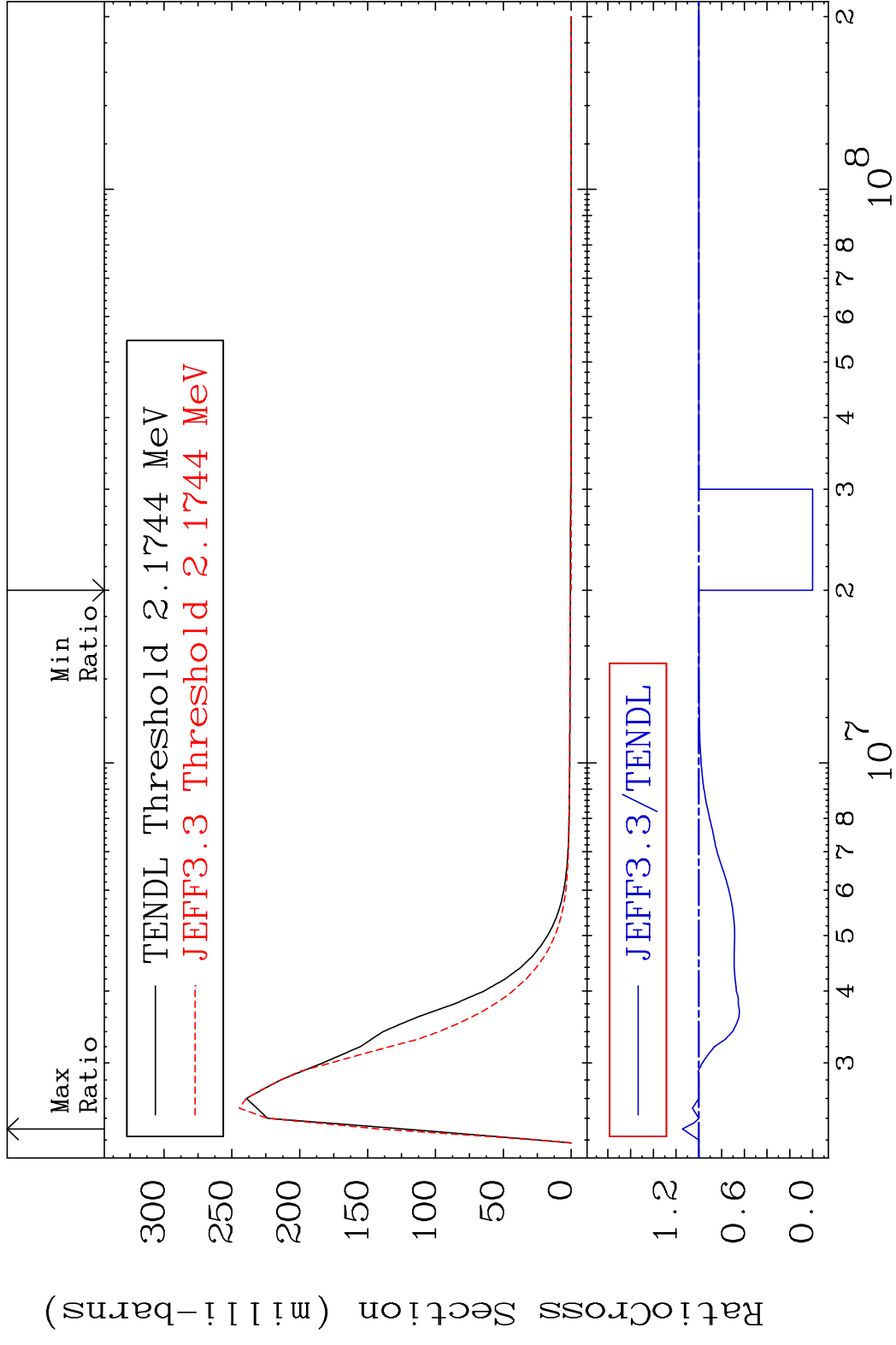


MAT 4037 MT= 55 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 17.31 %

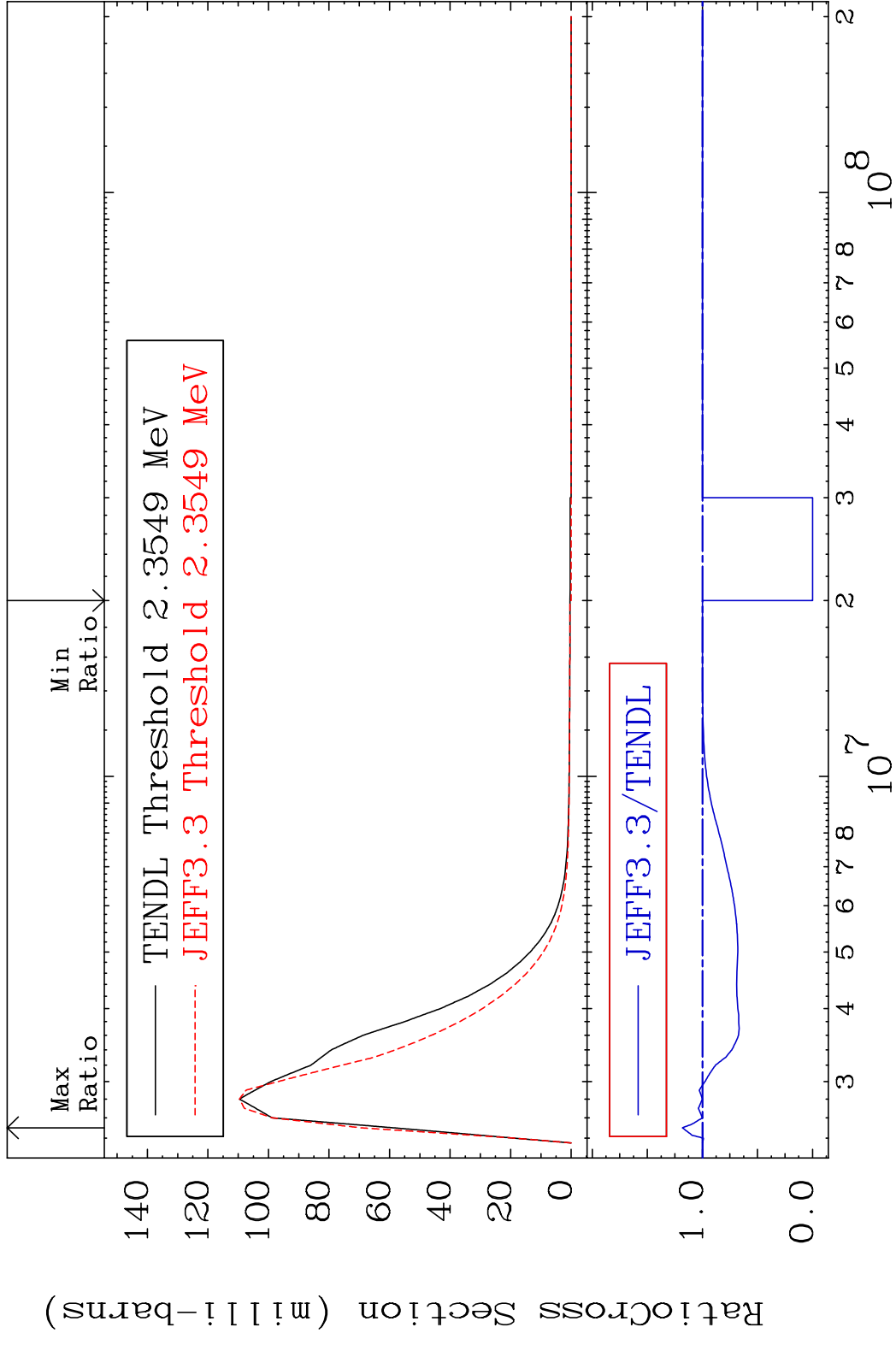


15 Incident Energy (eV) 40-Zr-94

MAT 4037 MT= 56 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 14.49 %



MAT 4037 MT= 57 (n,n') Level 40-Zr-94
 Cross Section -100.0 To 18.18 %



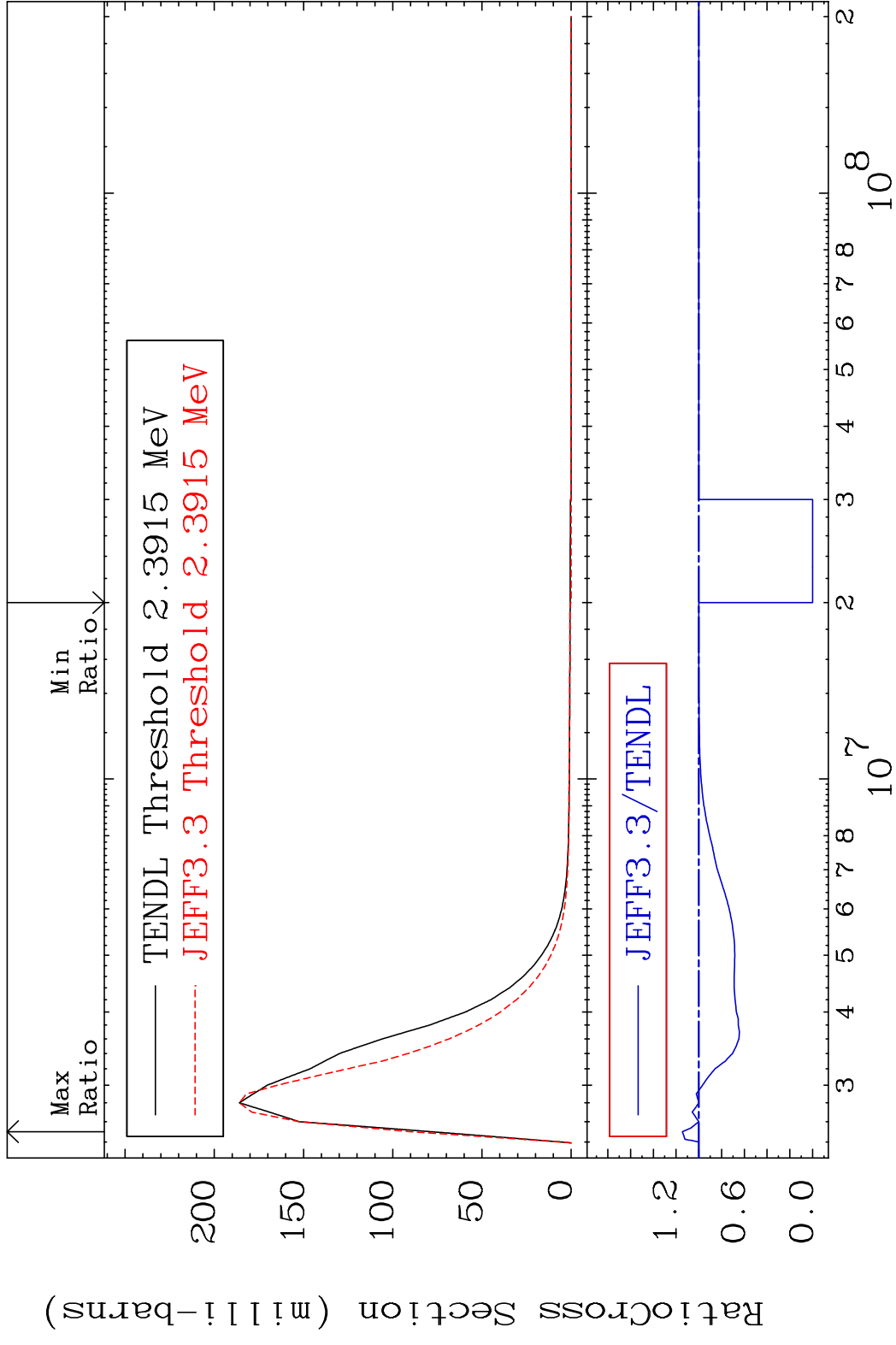
17 Incident Energy (eV) 40-Zr-94

MAT 4037

MT= 58 (n, n') Level

40-Zr-94

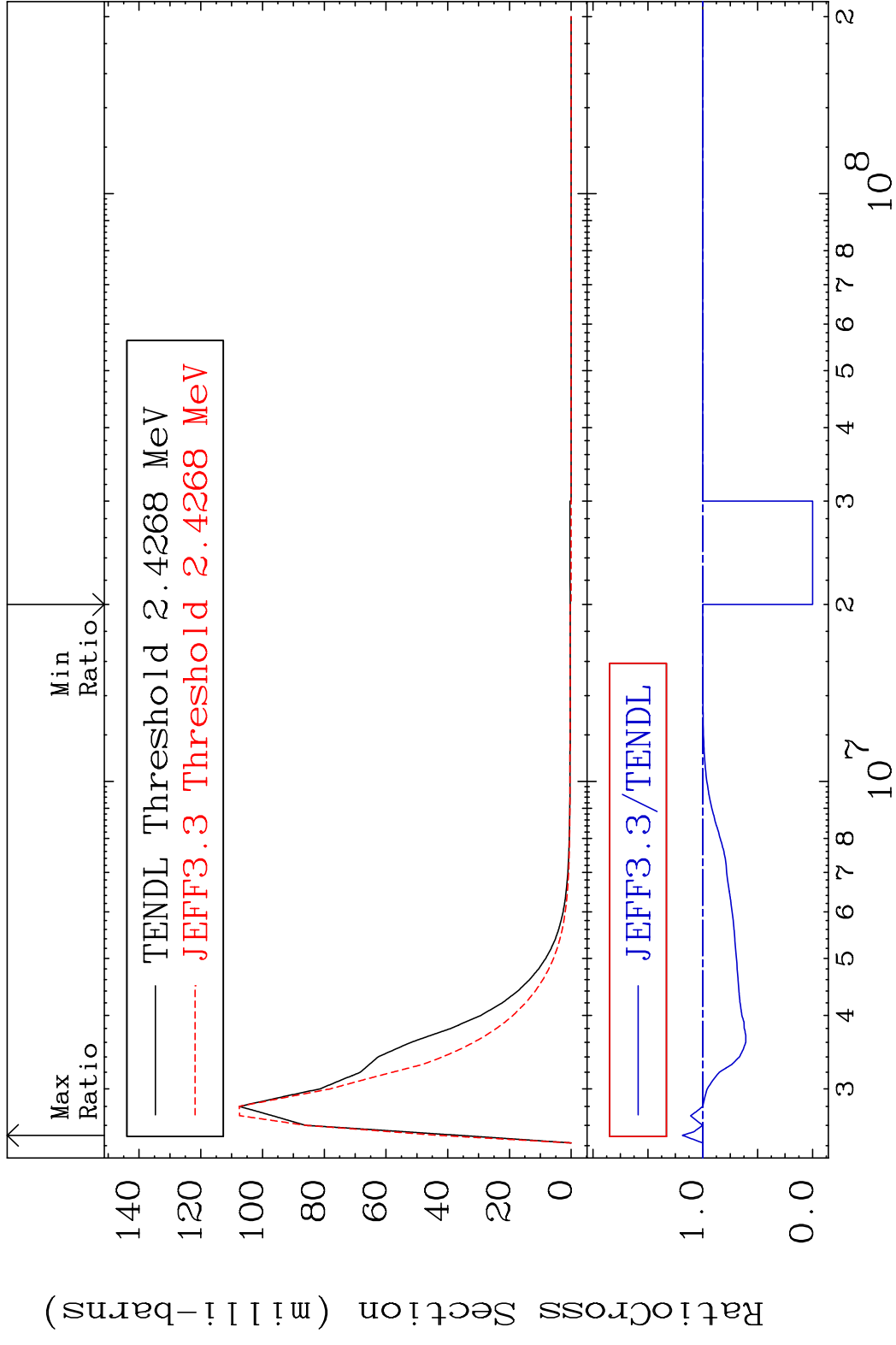
Cross Section -100.0 To 14.47 %



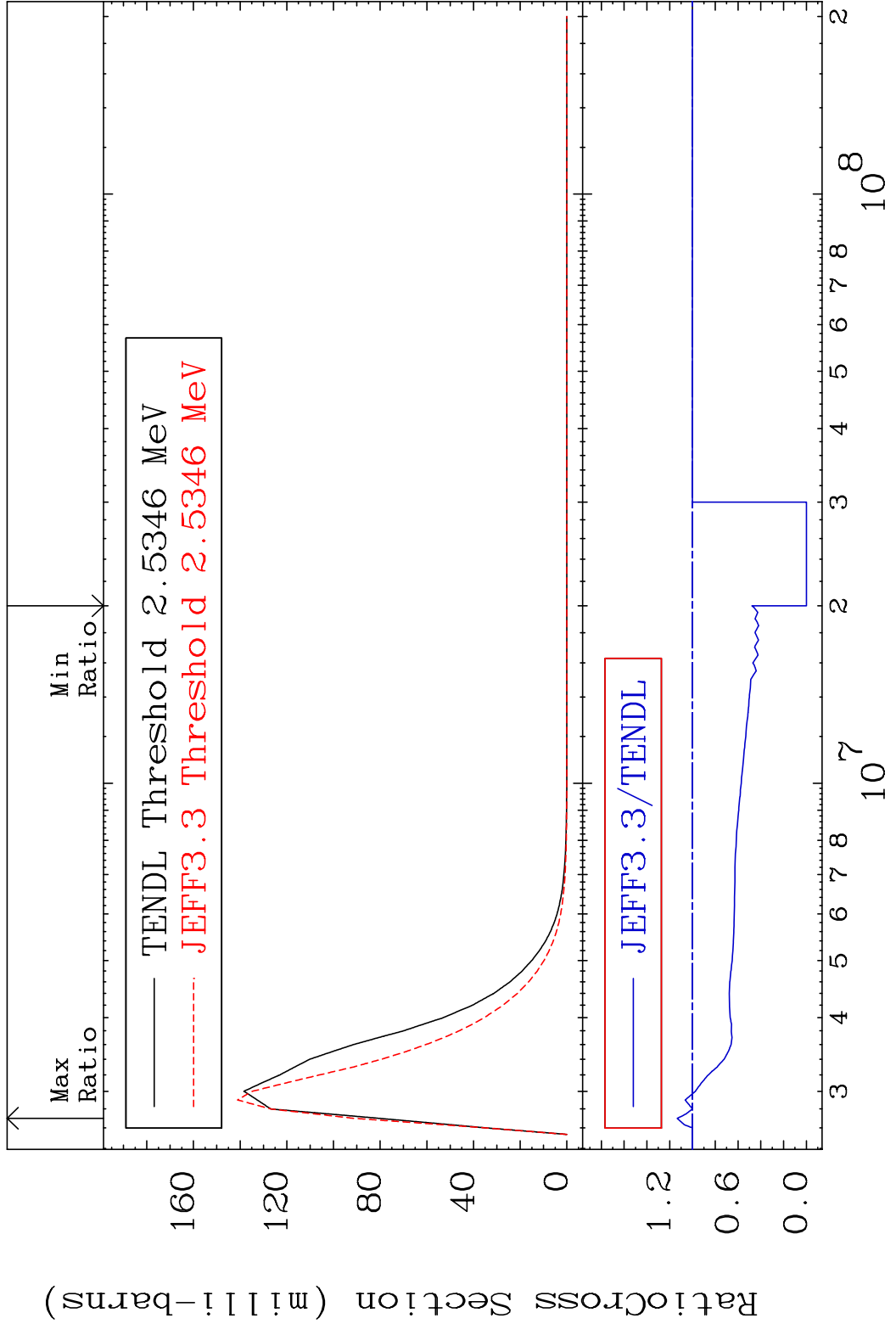
18

40-Zr-94

MAT 4037 MT= 59 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 18.58 %

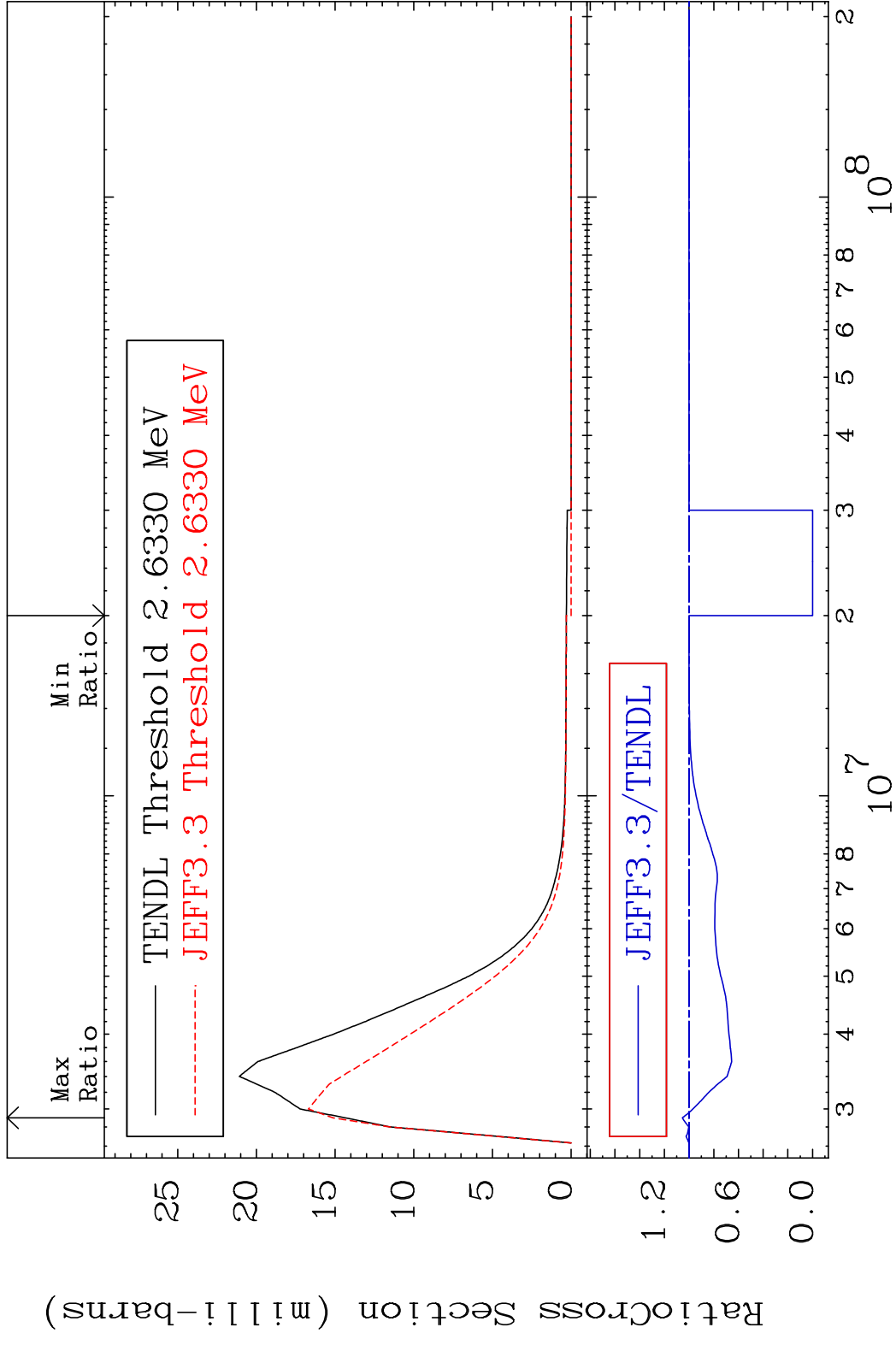


MAT 4037 MT= 60 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 13.40 %

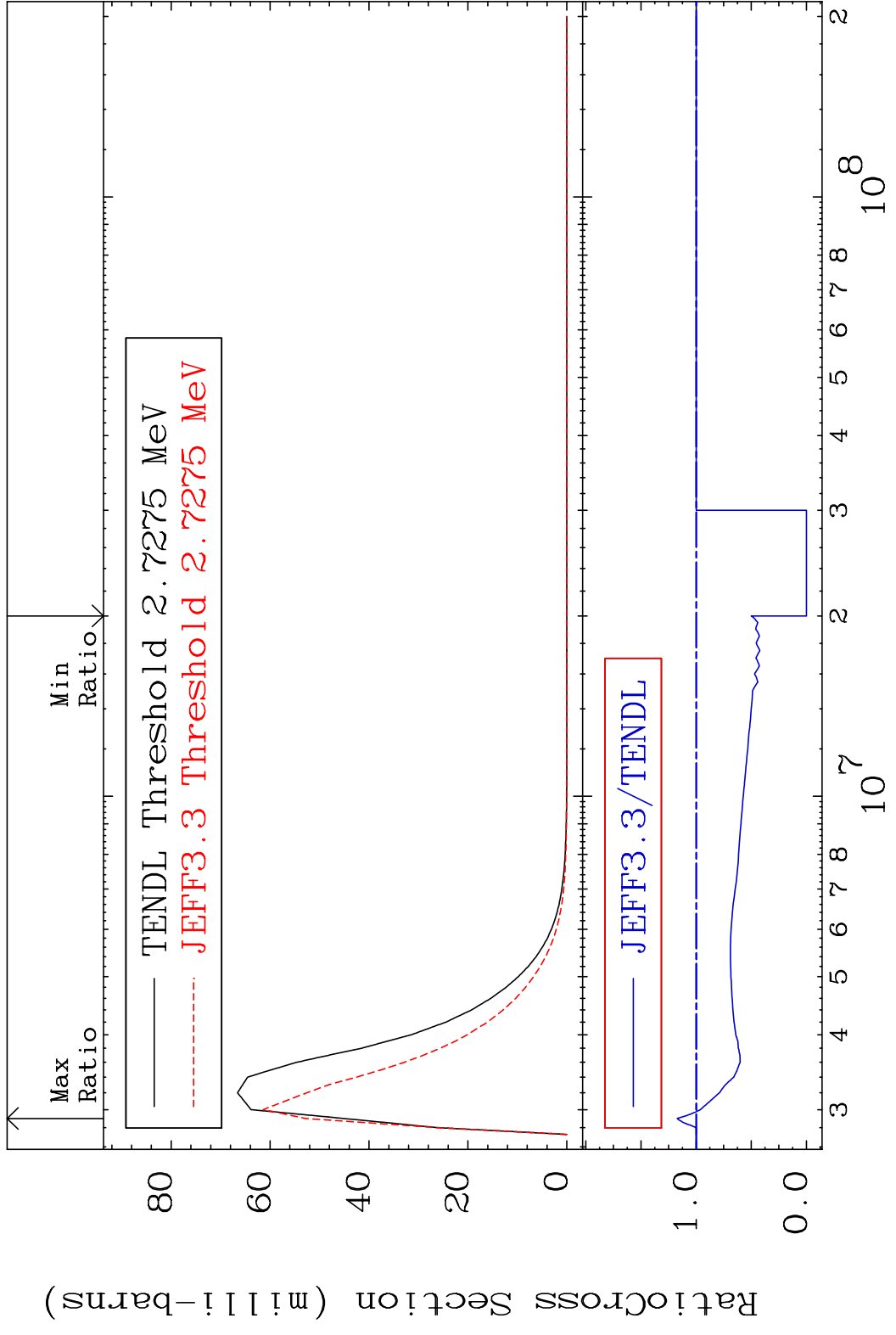


20 40-Zr-94

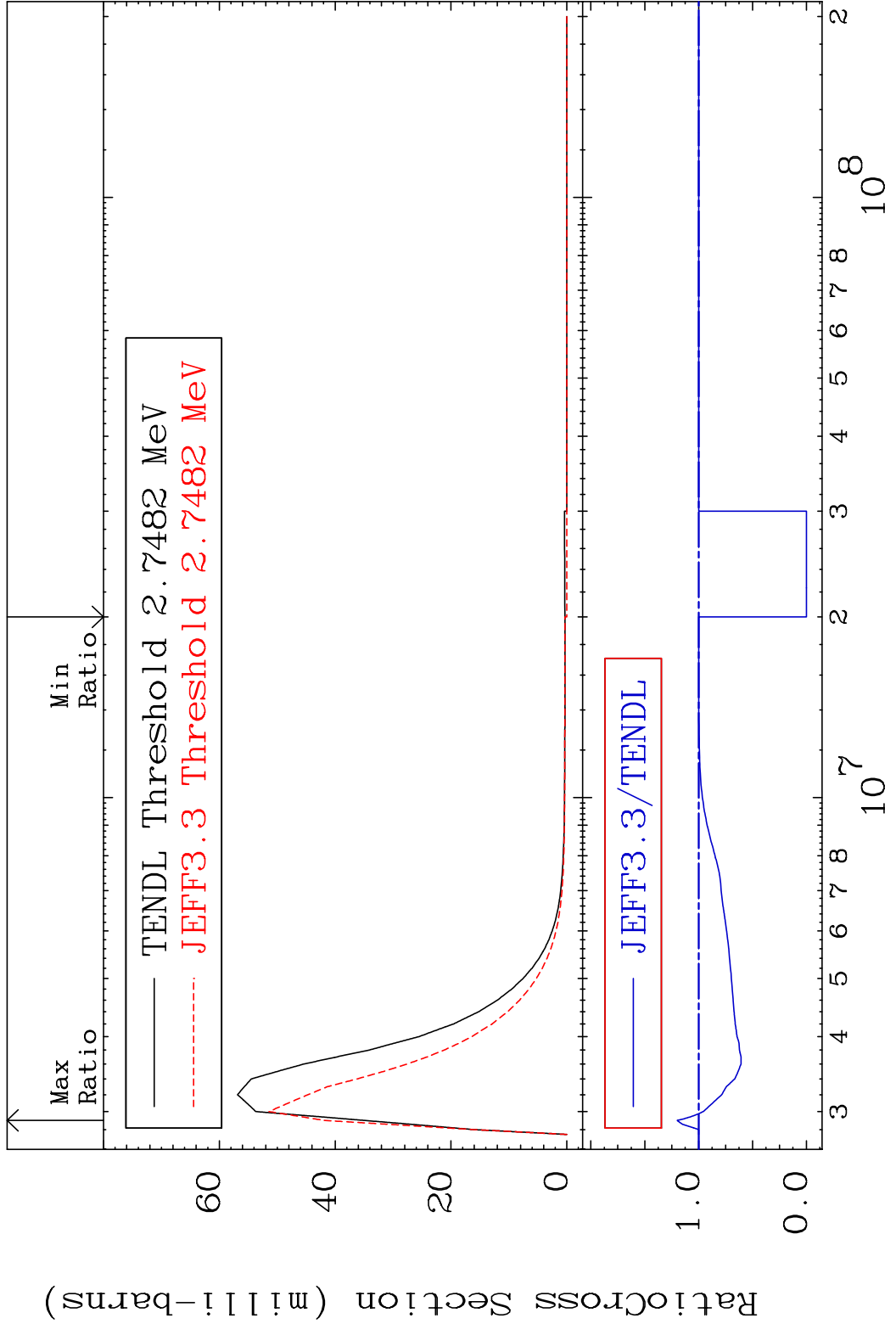
MAT 4037 MT= 61 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 5.418 %



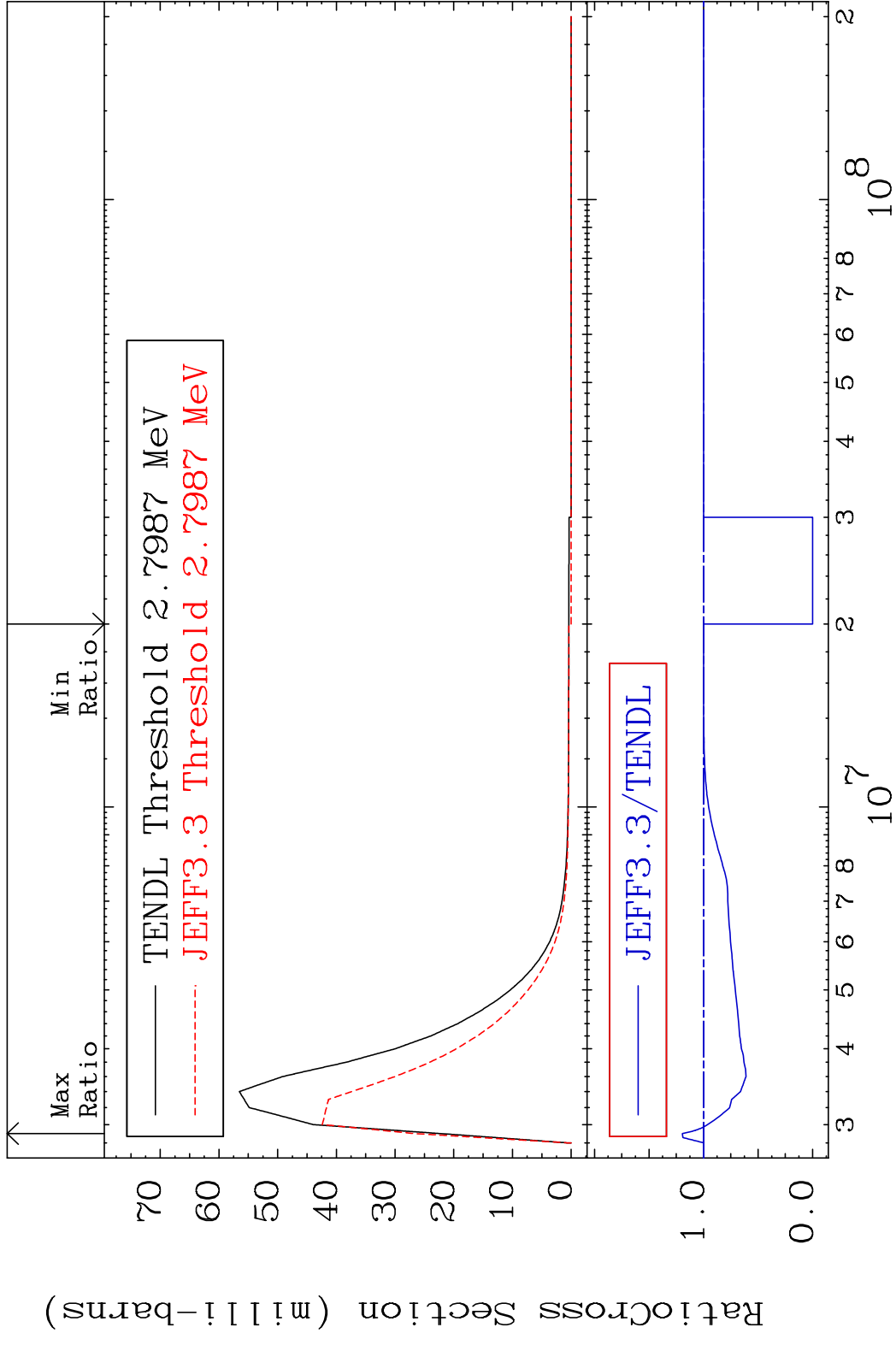
MAT 4037 MT= 62 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 17.18 %



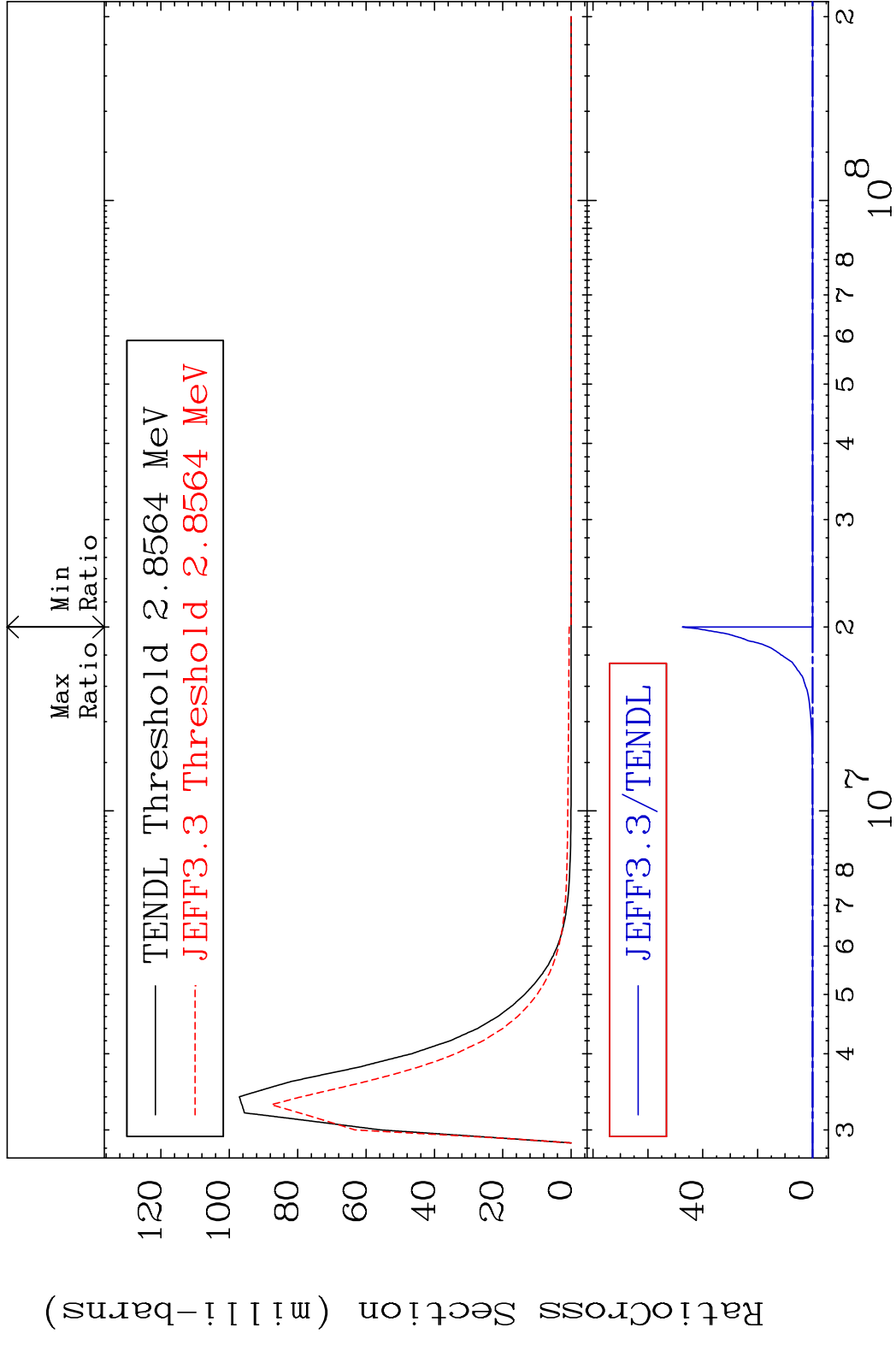
MAT 4037 MT= 63 (n,n') Level 40-Zr-94
 Cross Section -100.0 To 19.90 %



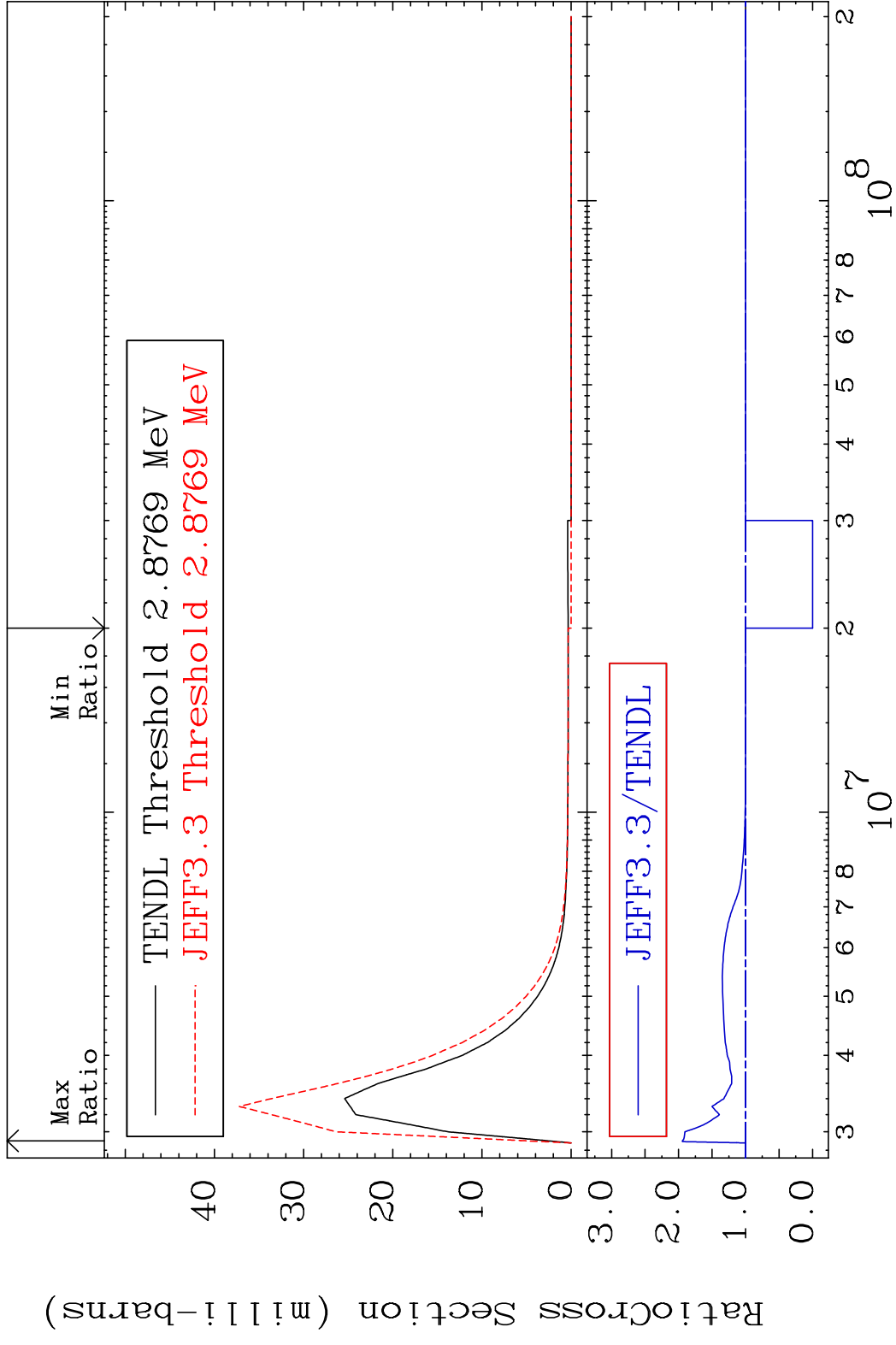
MAT 4037 MT= 64 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 19.43 %



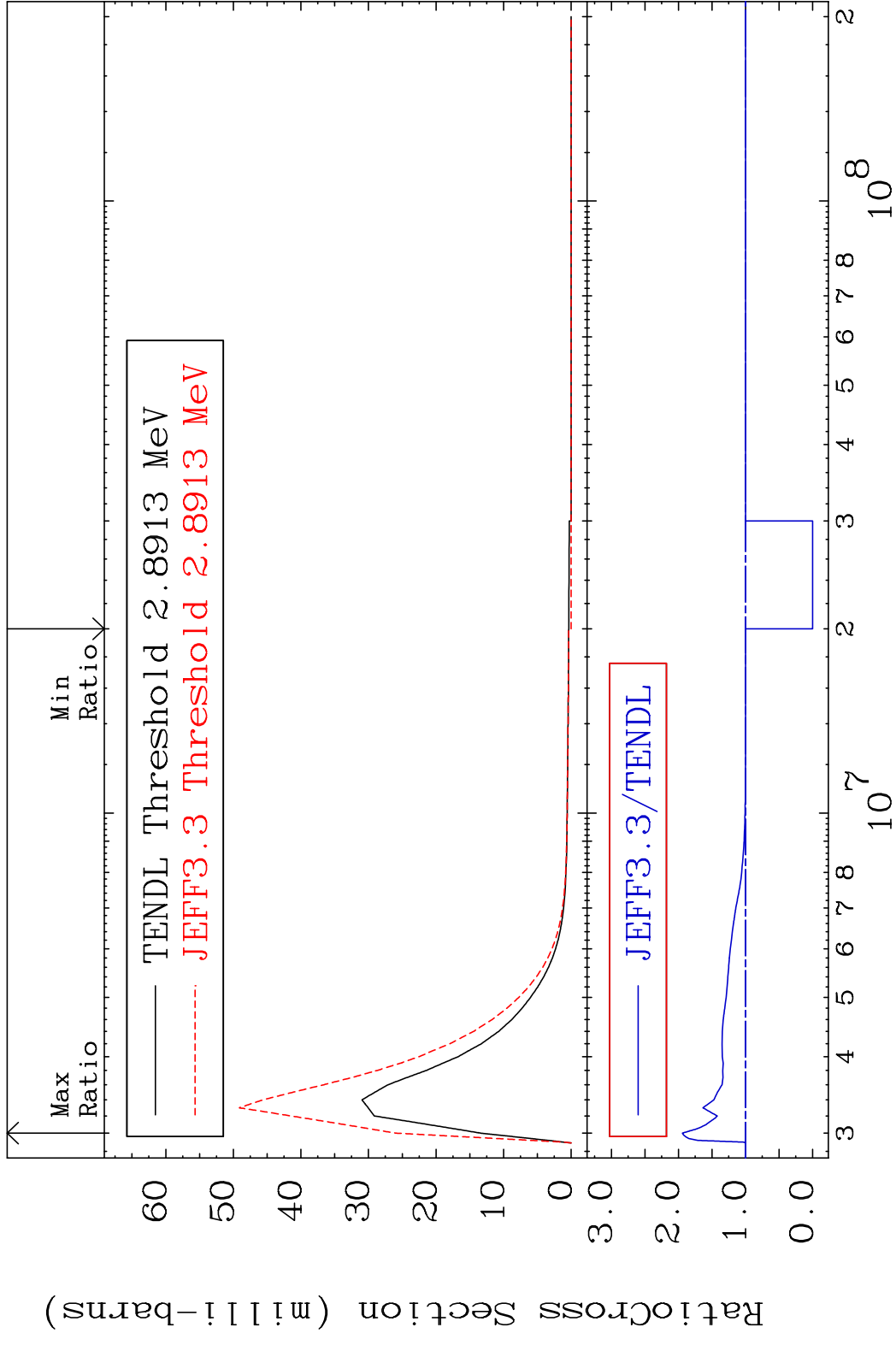
MAT 4037 MT= 65 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 9999. %



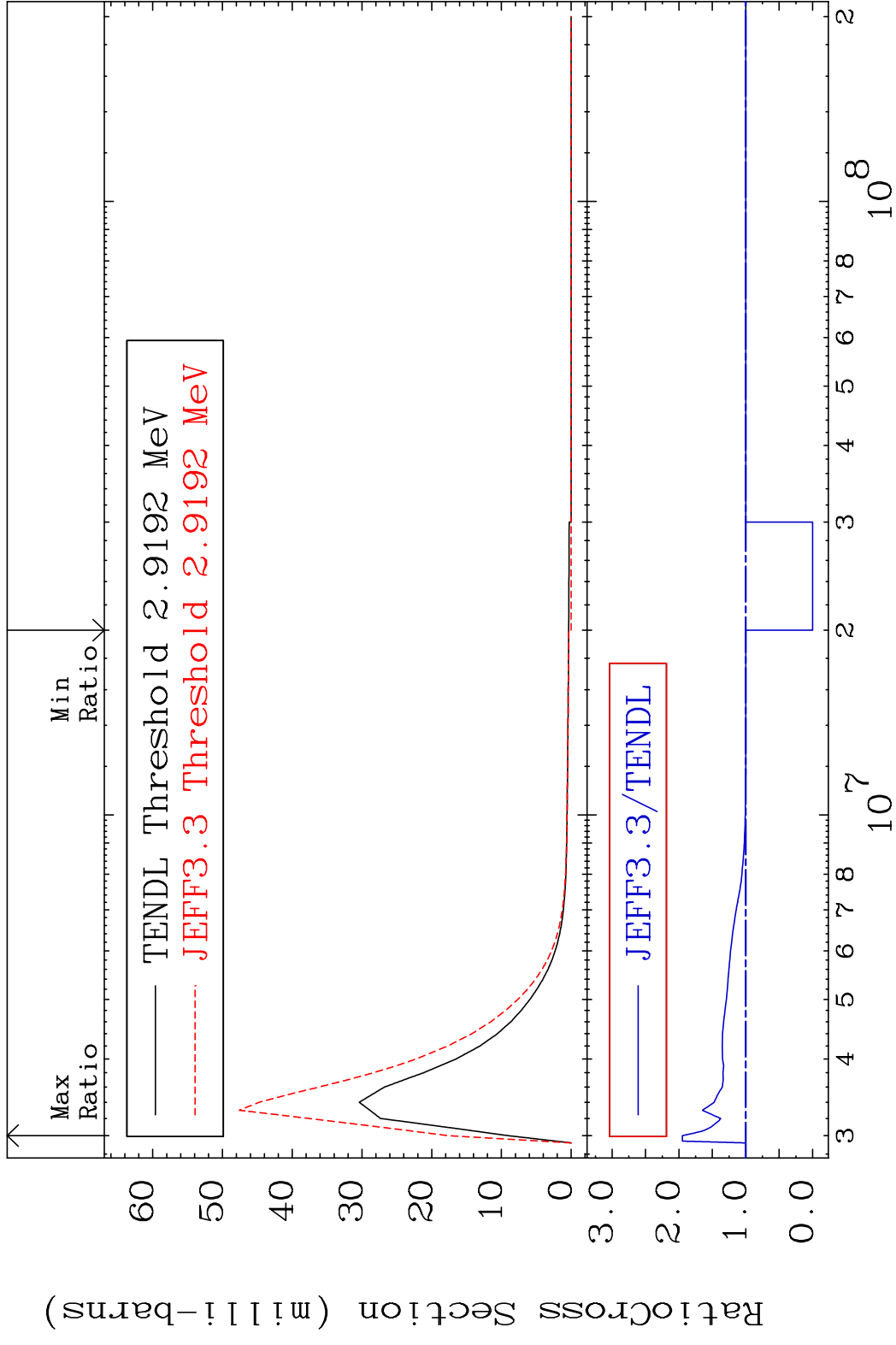
MAT 4037 MT= 66 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 94.36 %



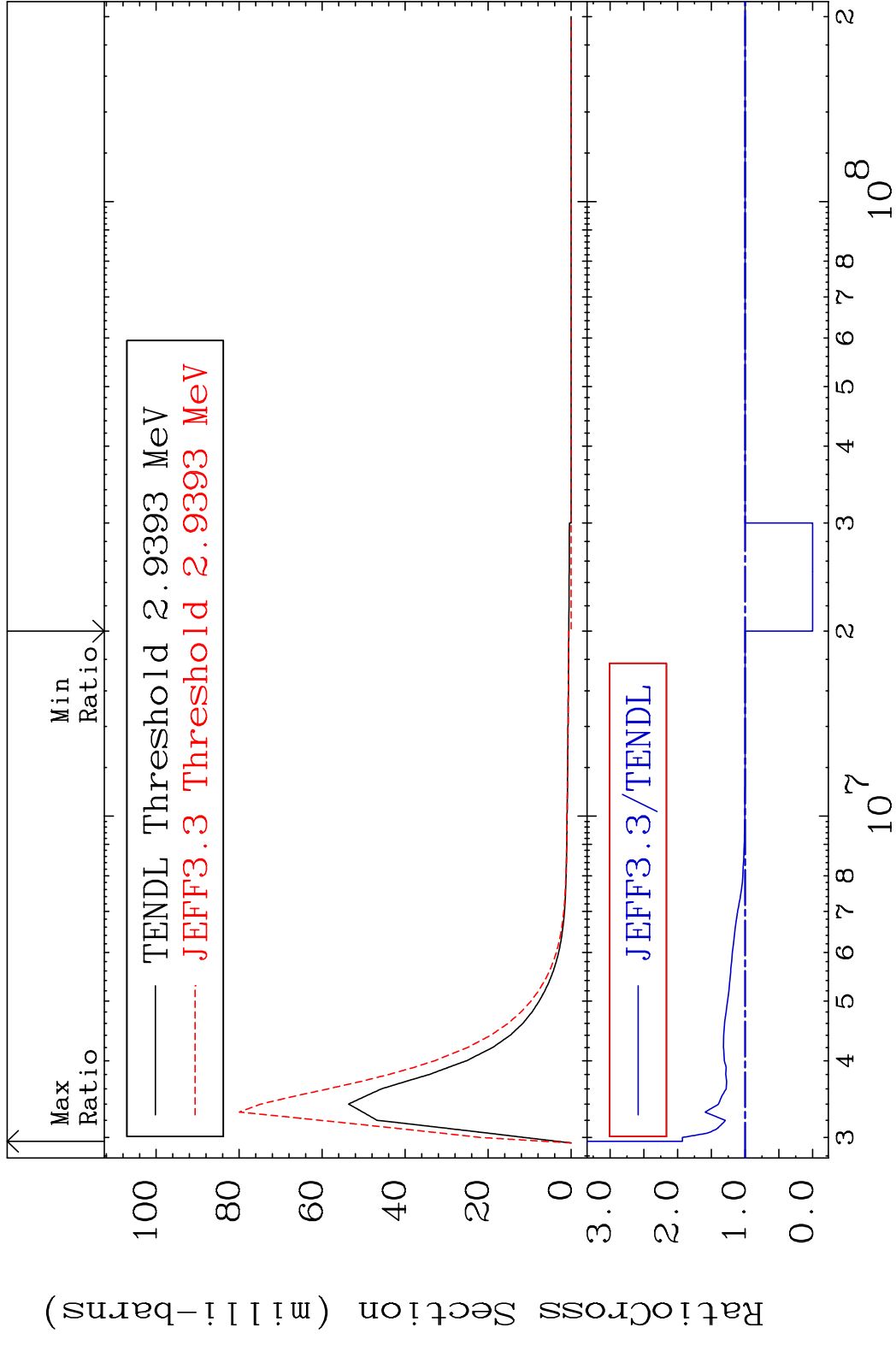
MAT 4037 MT= 67 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 94.18 %



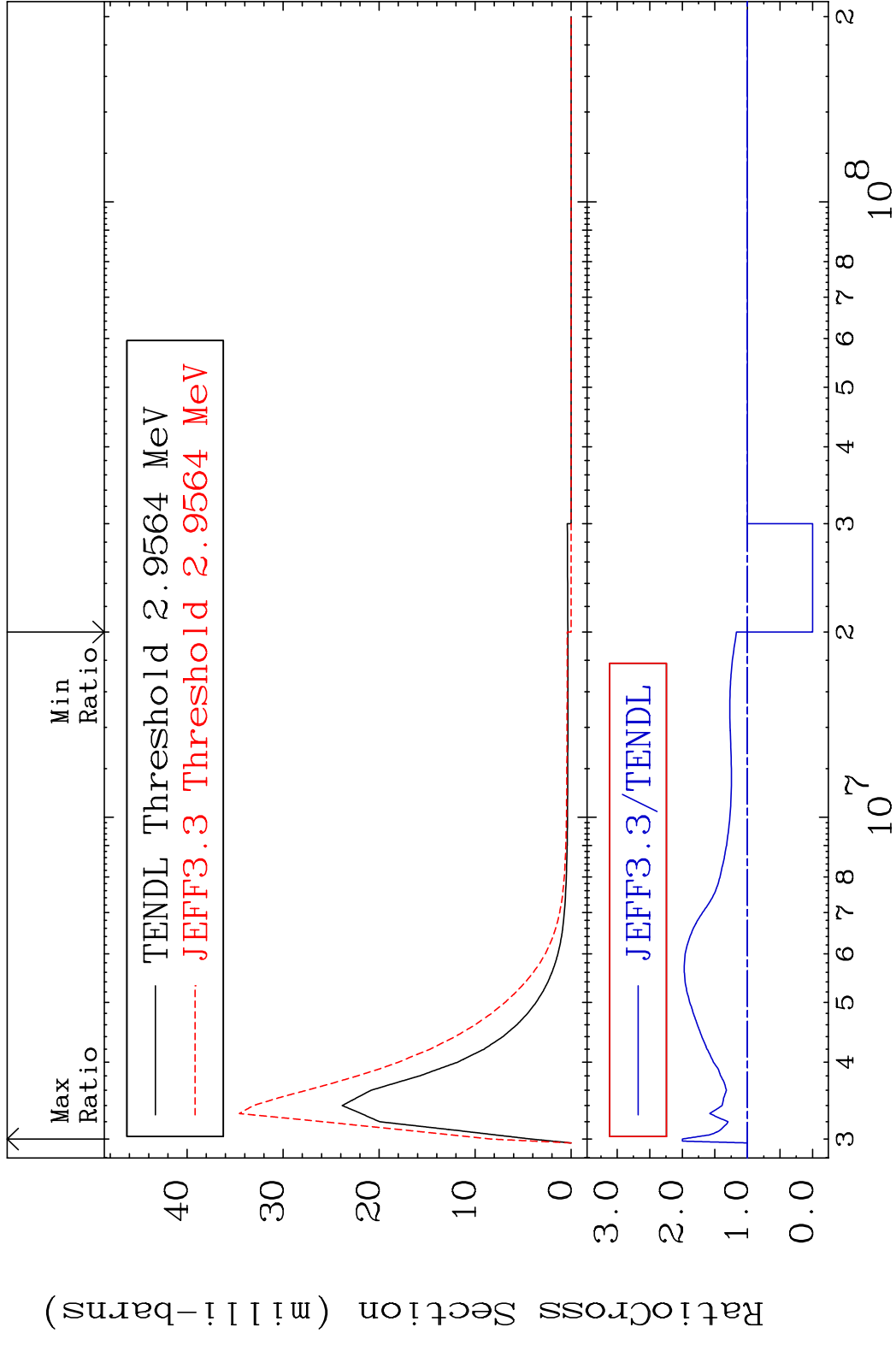
MAT 4037 MT= 68 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 94.87 %



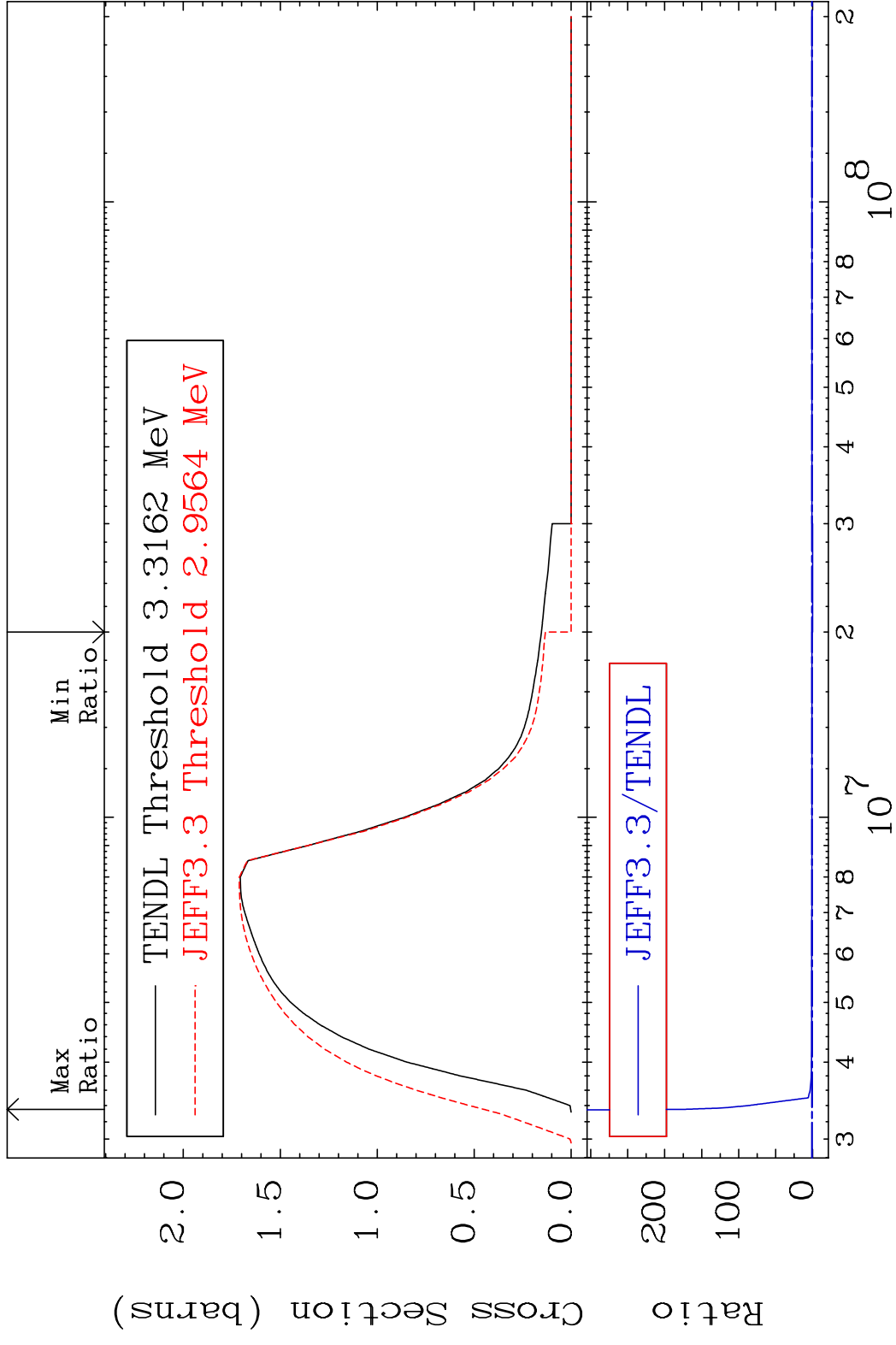
MAT 4037 MT= 69 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 92.87 %



MAT 4037 MT= 70 (n, n') Level 40-Zr-94
 Cross Section -100.0 To 99.90 %



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

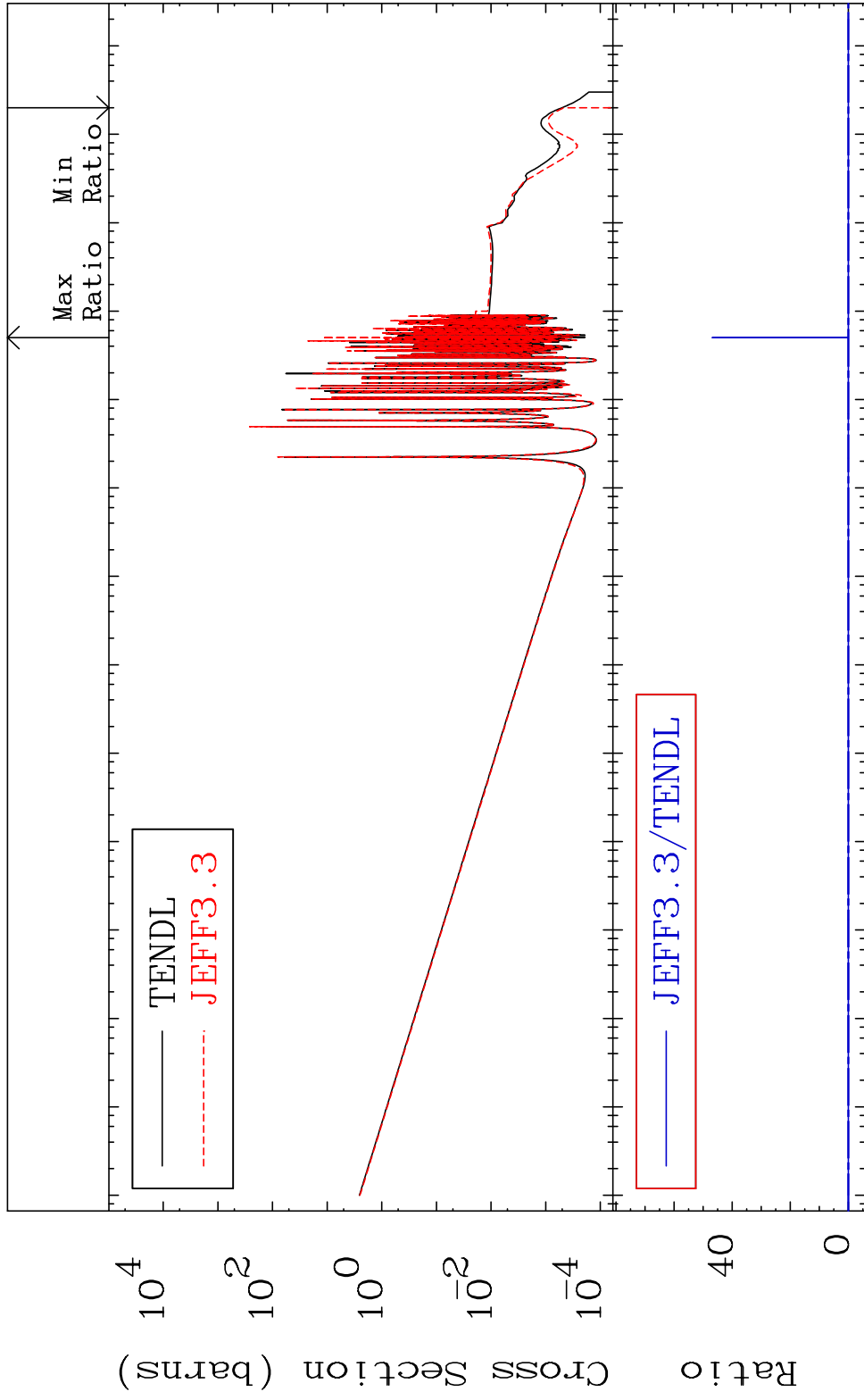


MAT 4037

(n, γ)

40-Zr-94

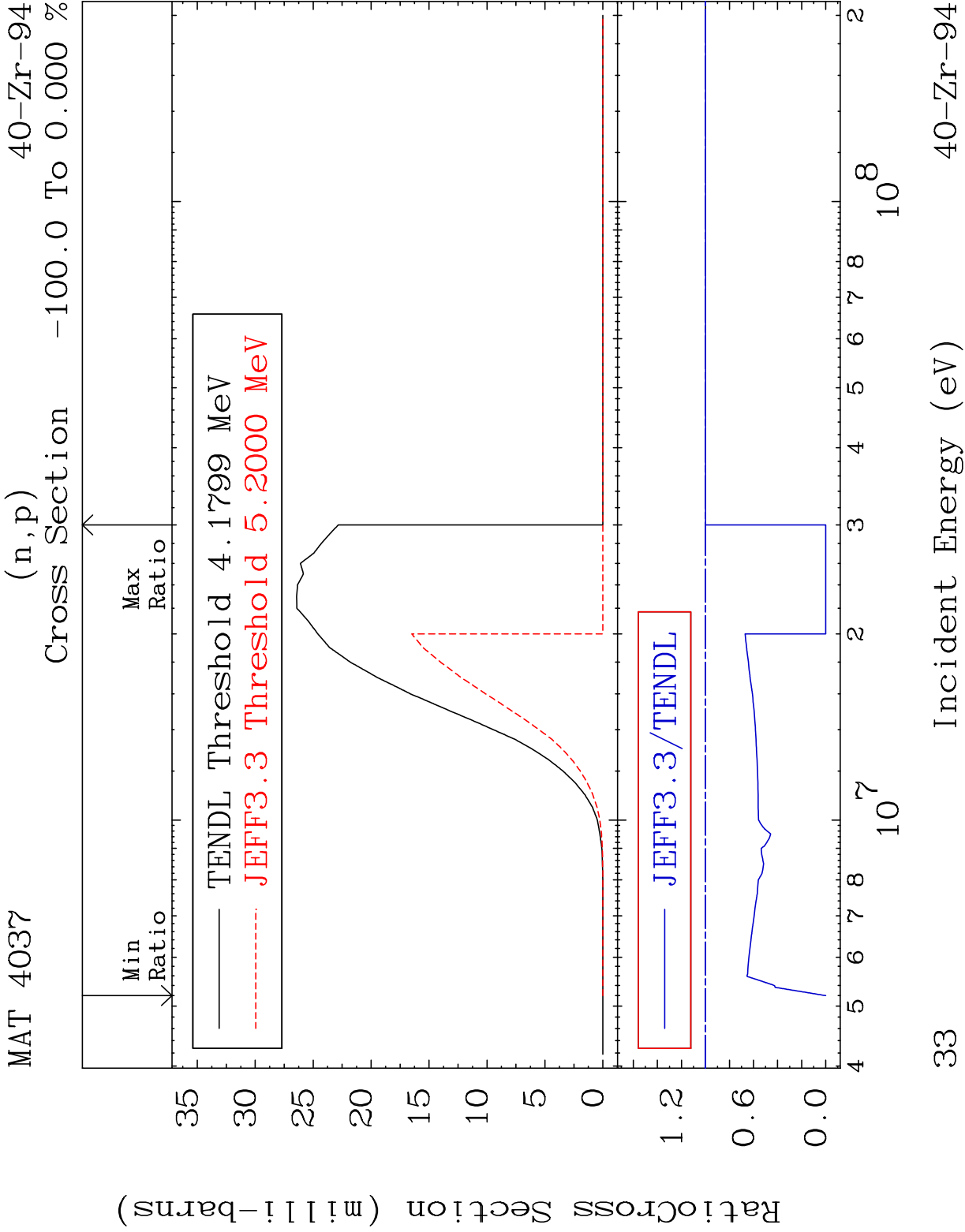
Cross Section -100.0 To 9999. %



32

Incident Energy (eV)

40-Zr-94

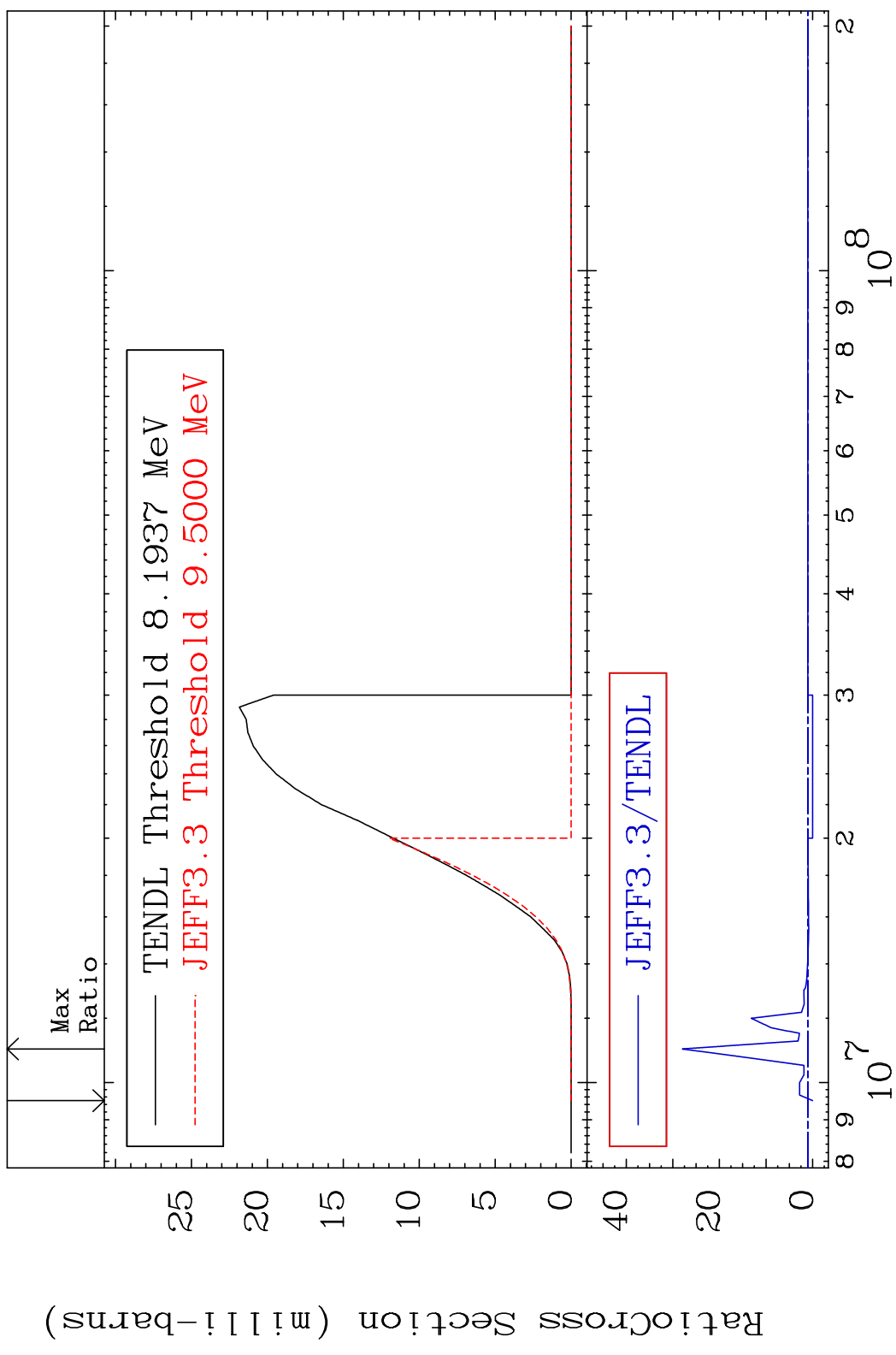


MAT 4037

(n, d)

40-Zr-94

Cross Section -100.0 To 2695. %

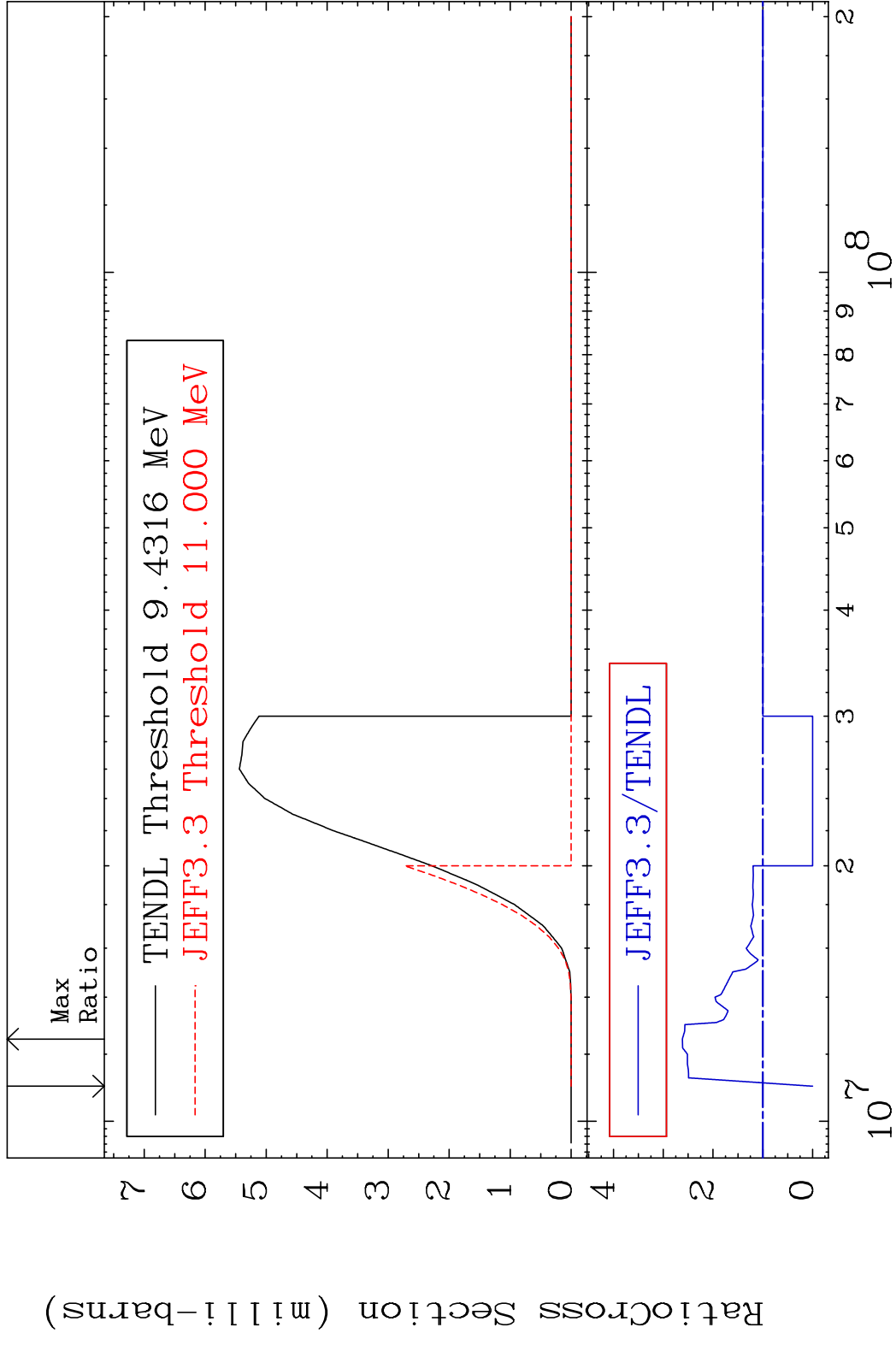


34

Incident Energy (eV)

40-Zr-94

MAT 4037 (n, t) 40-Zr-94
 Cross Section -100.0 To 161.7 %



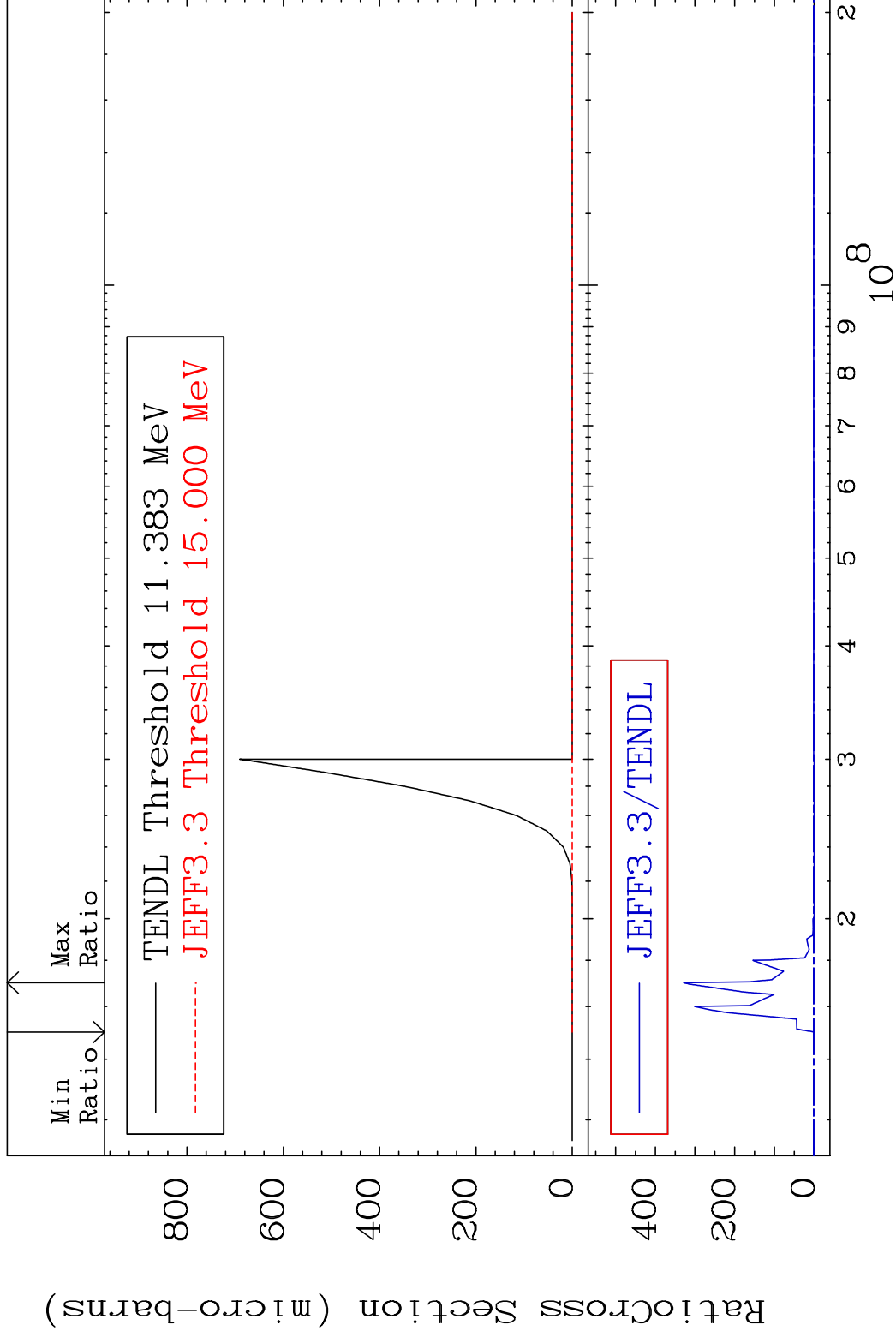
35 40-Zr-94

MAT 4037

(n, He-3)

40-Zr-94

Cross Section -100.0 To 9999. %



36

Incident Energy (eV)

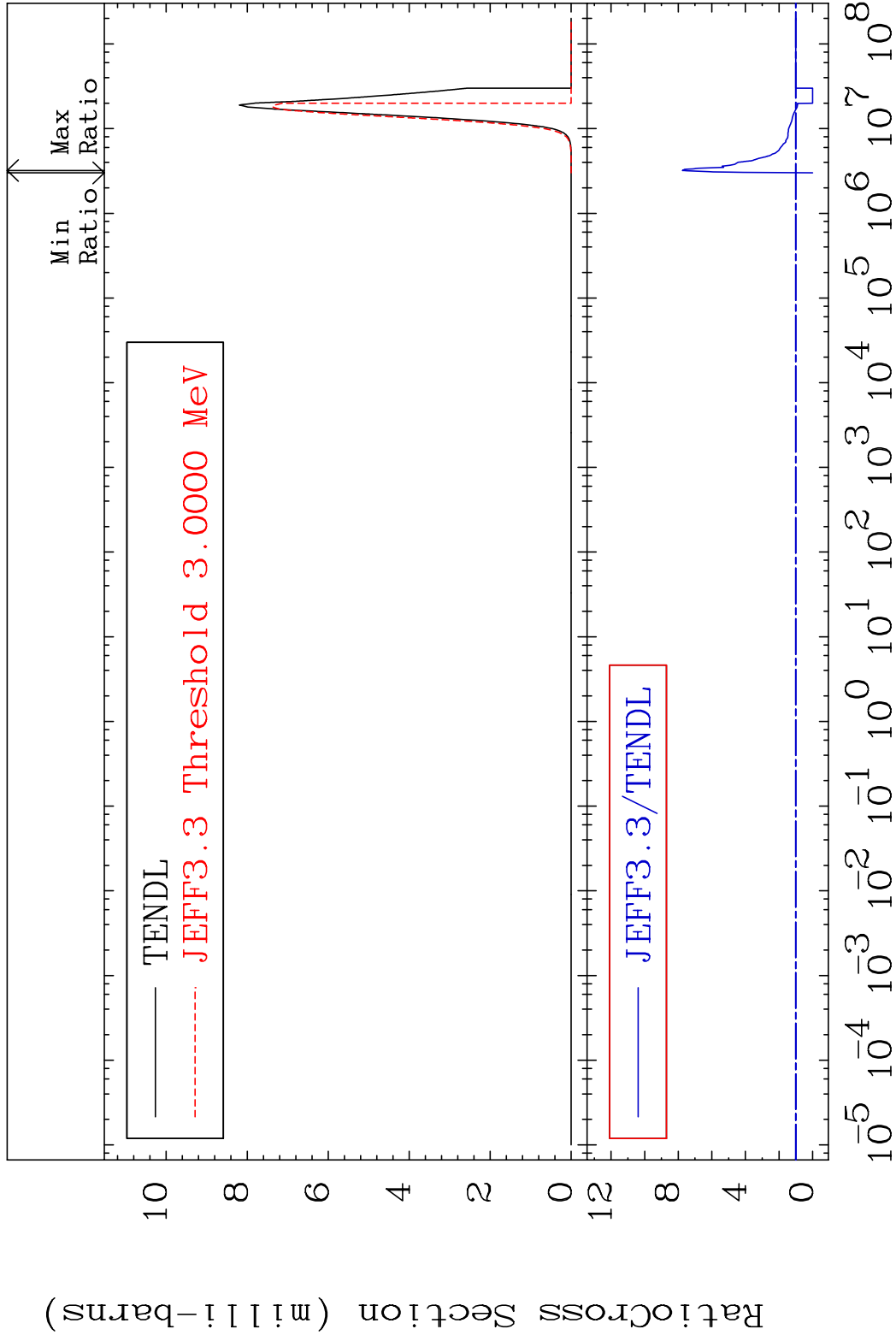
40-Zr-94

MAT 4037

(n, α)

40-Zr-94

Cross Section -100.0 To 675.5 %

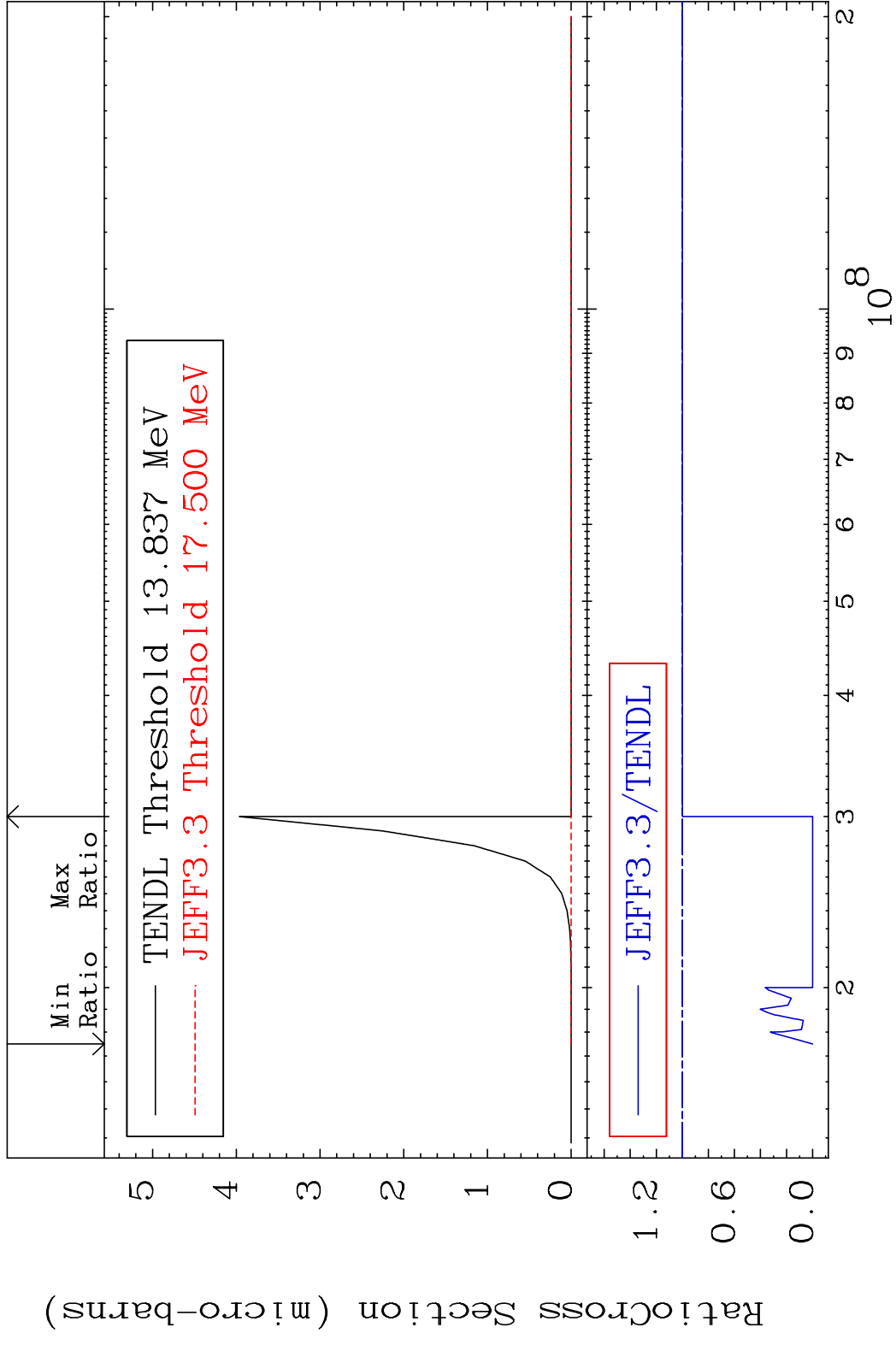


37

Incident Energy (eV)

40-Zr-94

MAT 4037 (n,2p) 40-Zr-94
 Cross Section -100.0 To 0.000 %

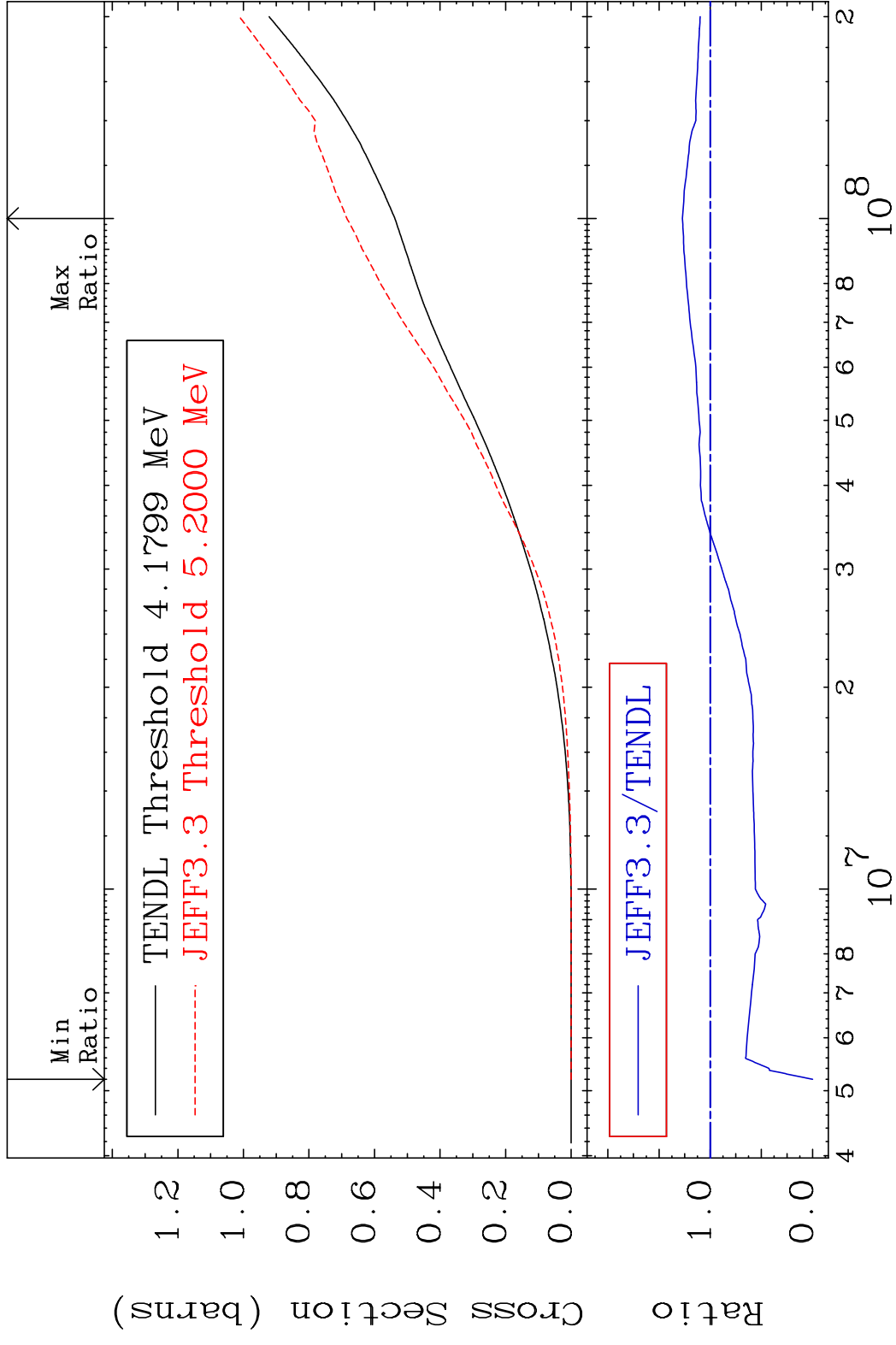


MAT 4037

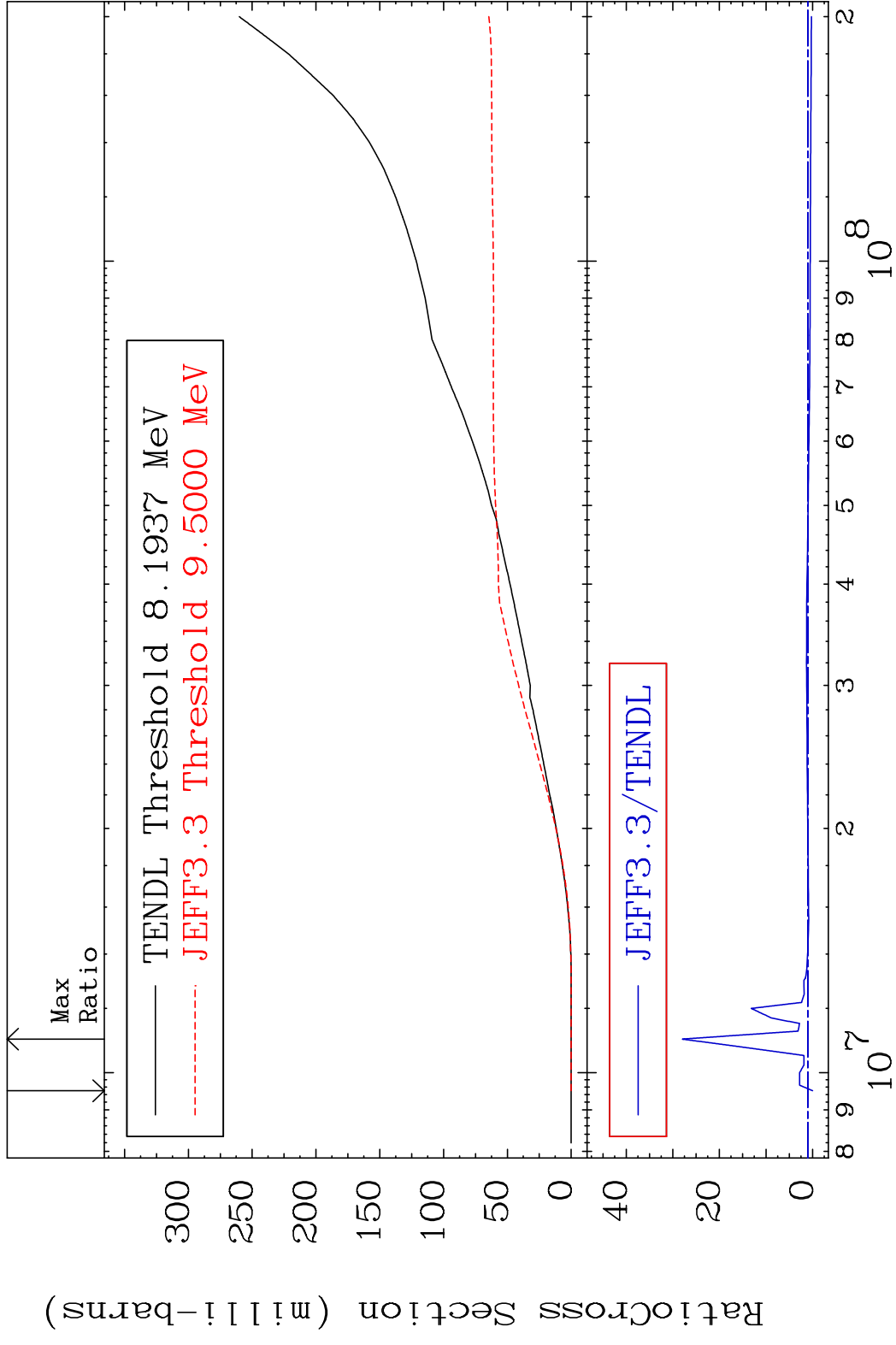
Hydrogen Production

40-Zr-94

Cross Section -100.0 To 27.22 %

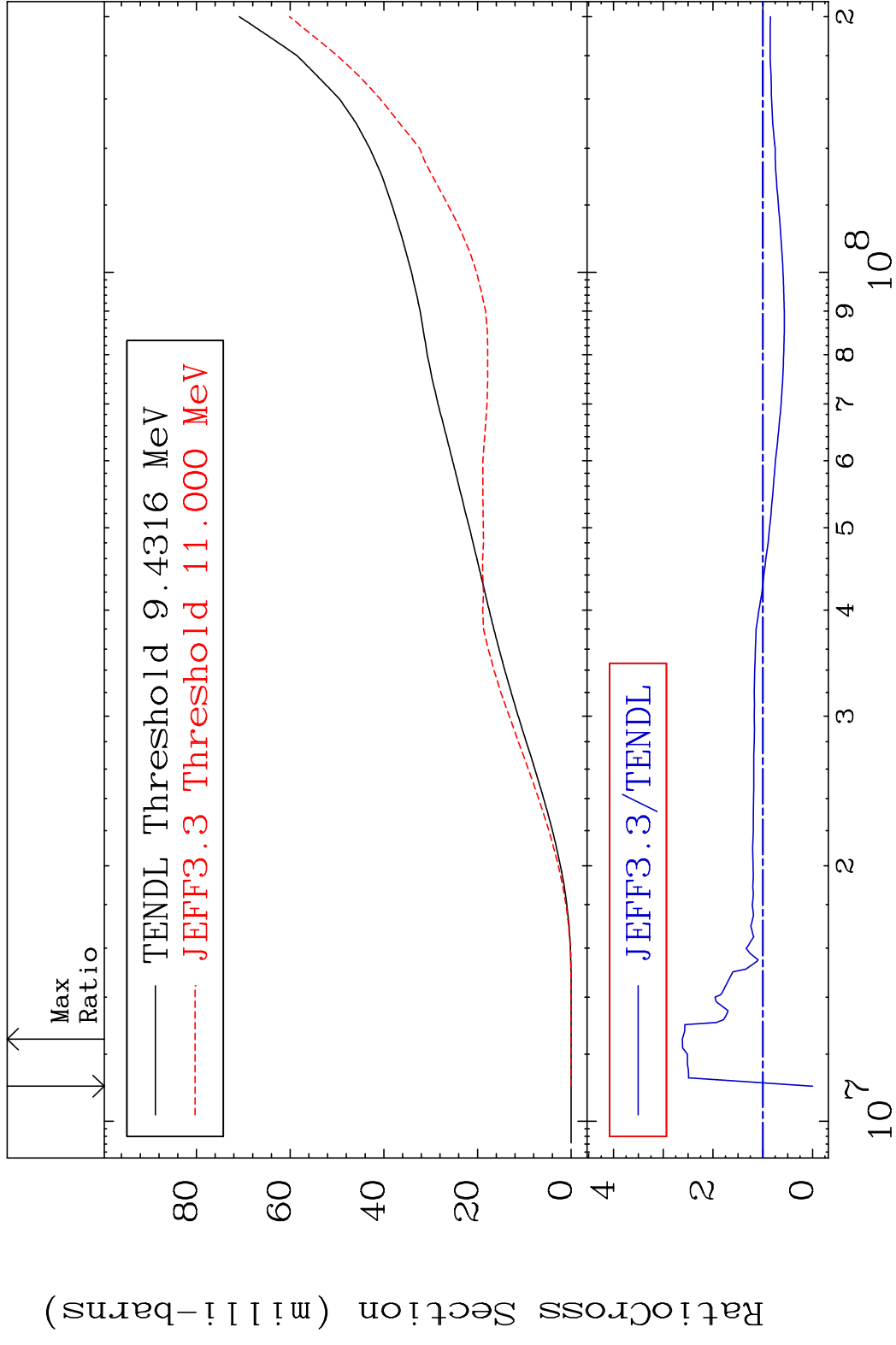


MAT 4037 Deuterium Production 40-Zr-94
 Cross Section -100.0 To 2695. %



40 8 9 10 7 10 8 2 40-Zr-94

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

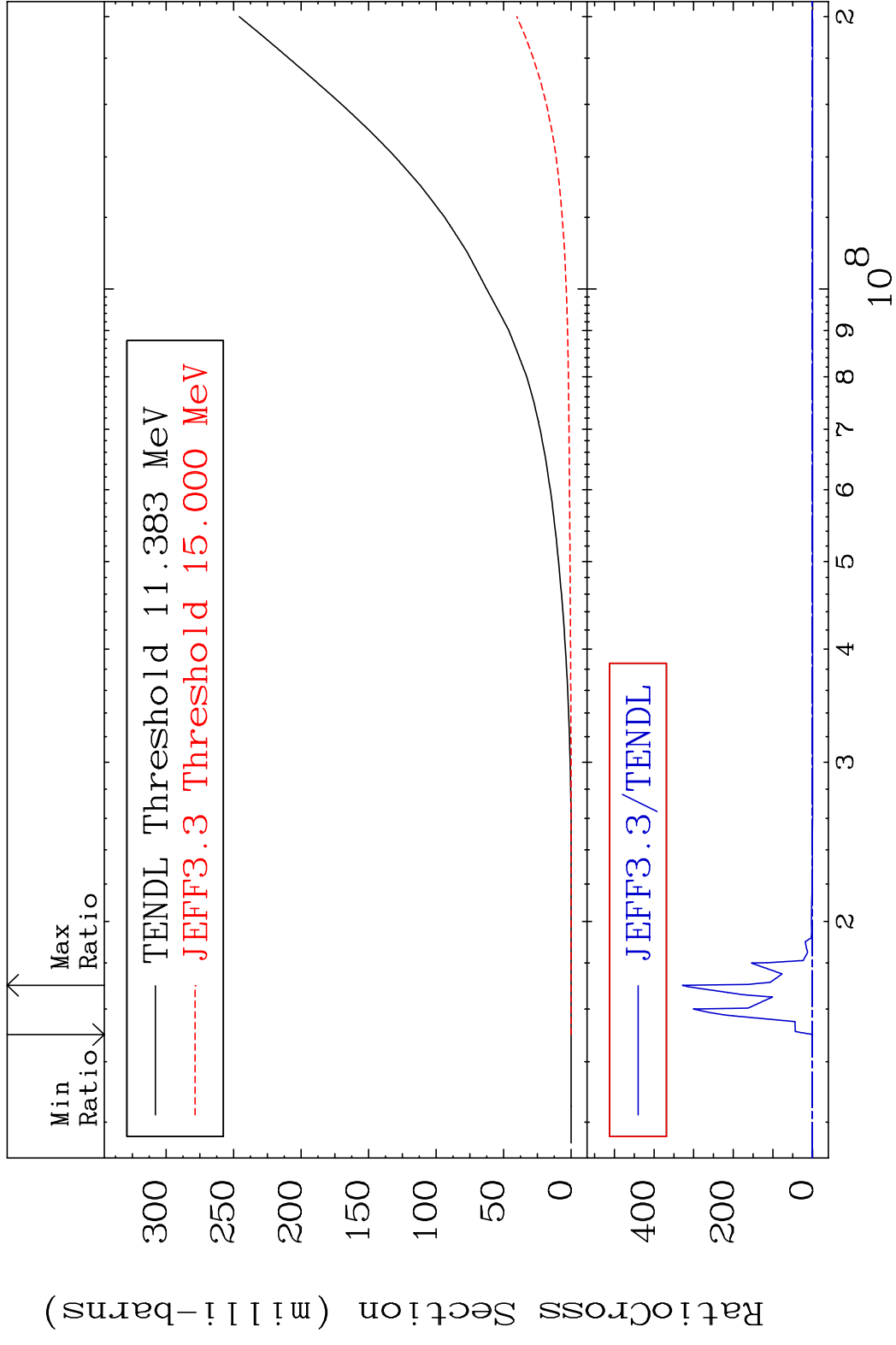


MAT 4037

He-3 Production

40-Zr-94

Cross Section -100.0 To 9999. %

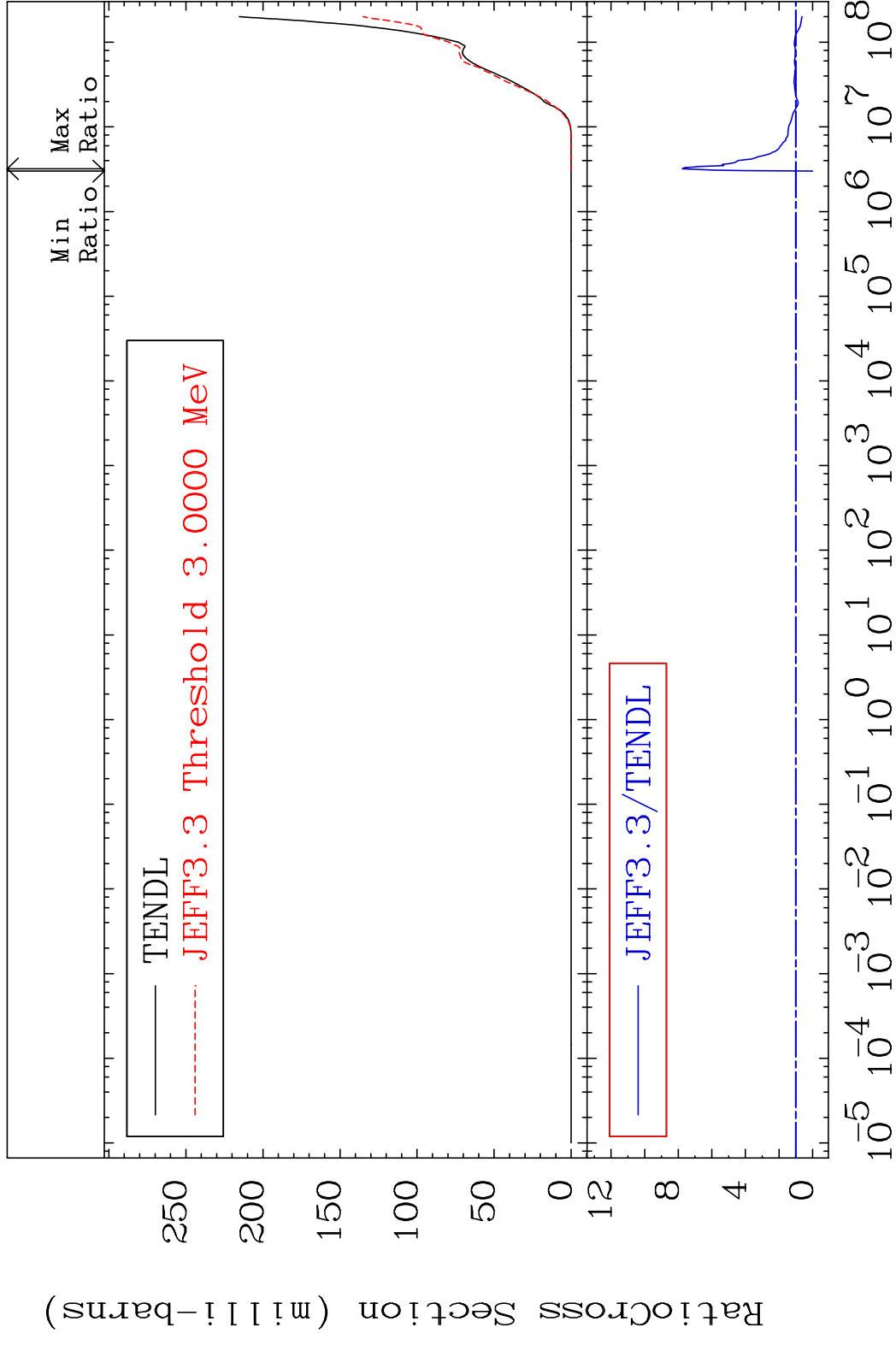


MAT 4037

He-4 Production

40-Zr-94

Cross Section -100.0 To 675.5 %

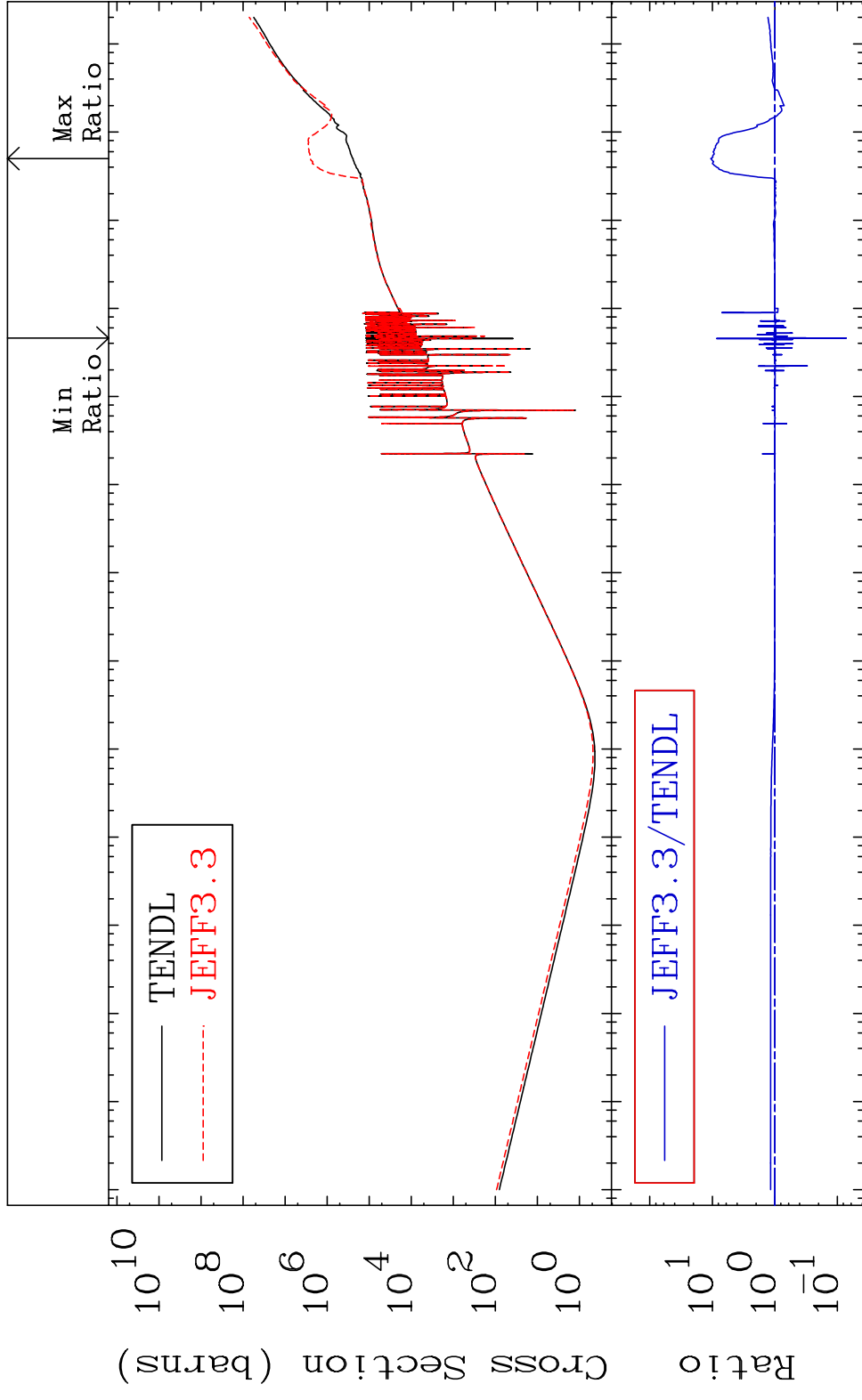


MAT 4037

Kerma total (eV-barns)

40-Zr-94

Cross Section -92.82 To 960.7 %



44

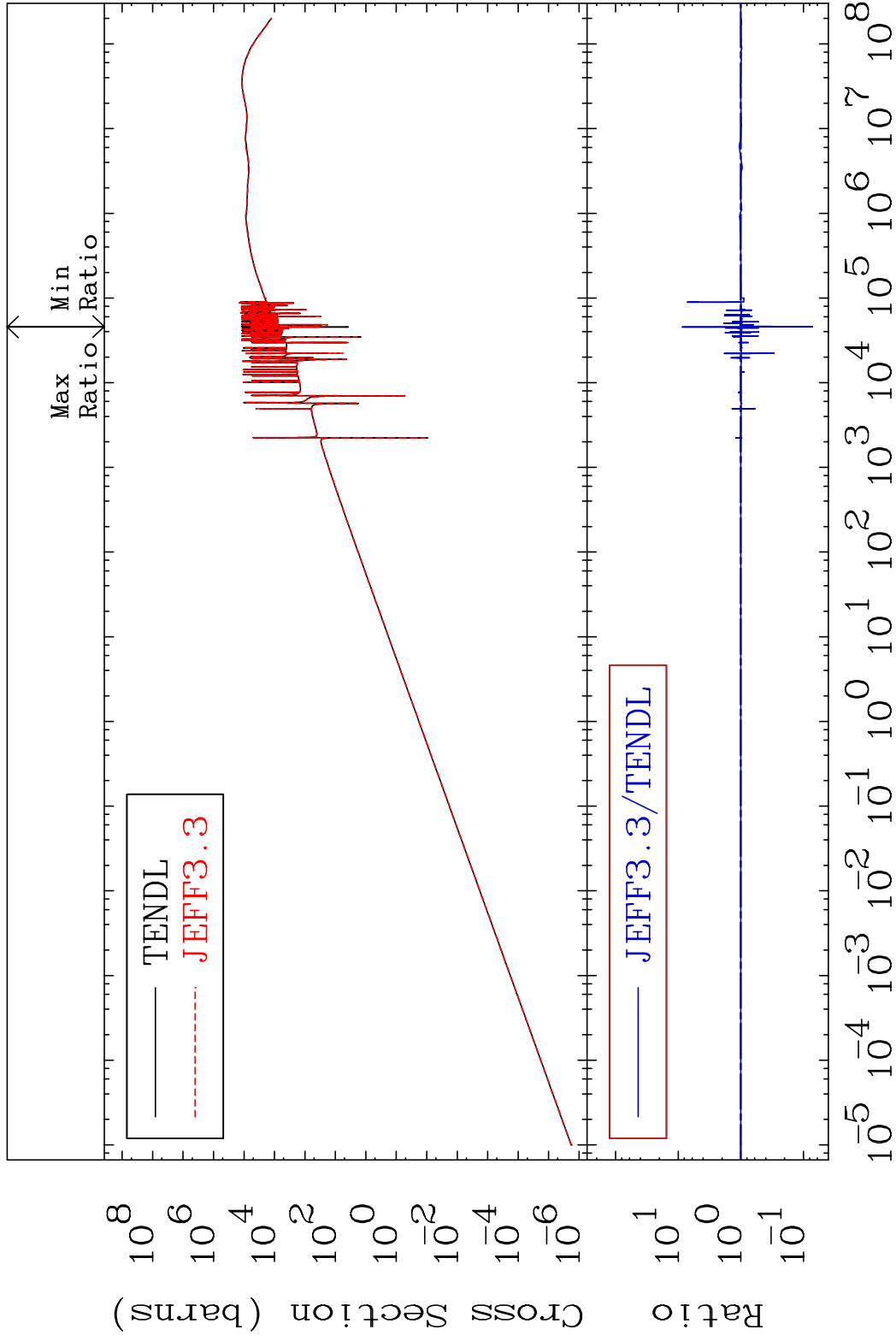
Incident Energy (eV)

40-Zr-94

MAT 4037

Kerma elastic
Cross Section

40-Zr-94
-92.82 To 758.7 %

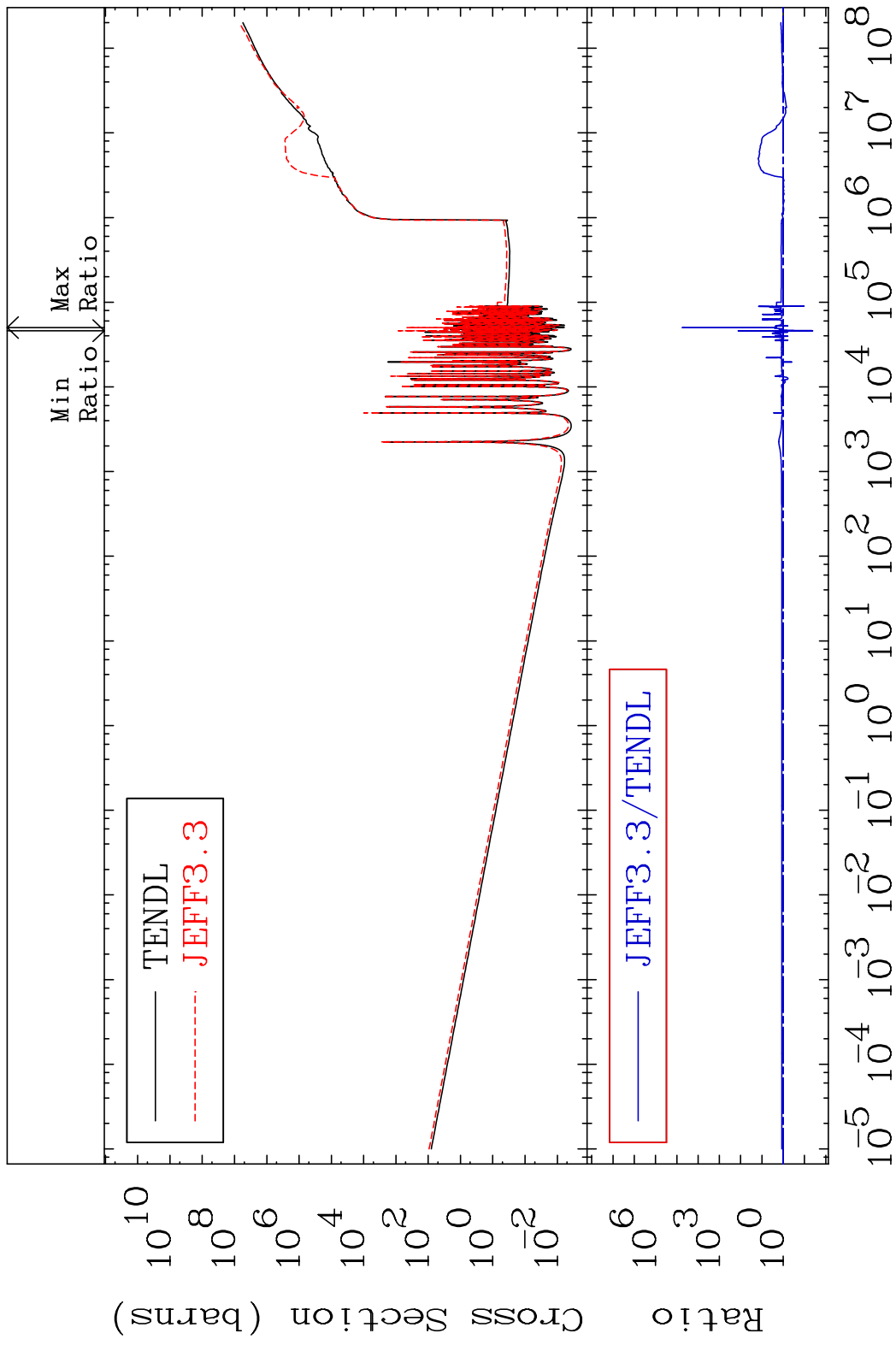


45

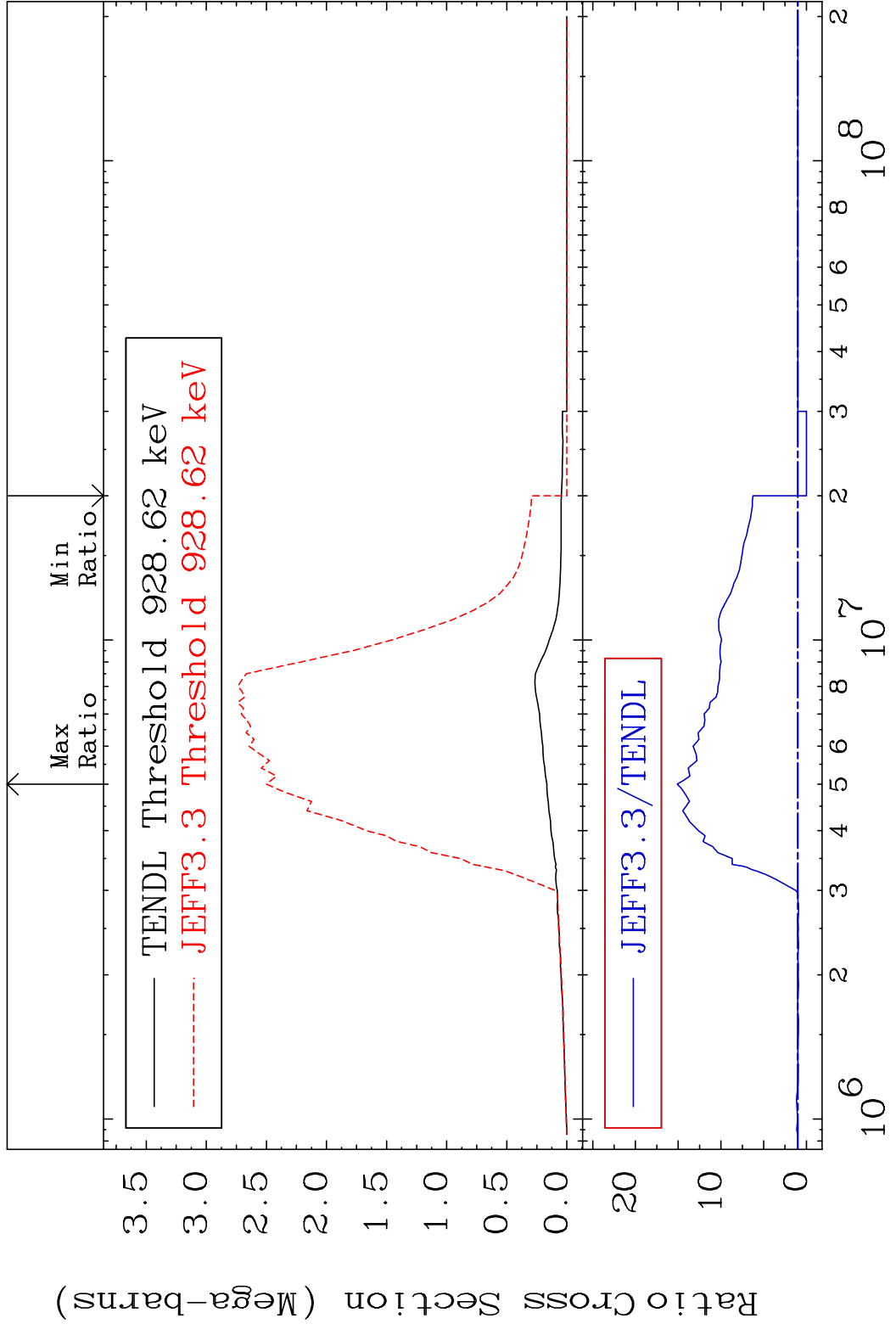
Incident Energy (eV)

40-Zr-94

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

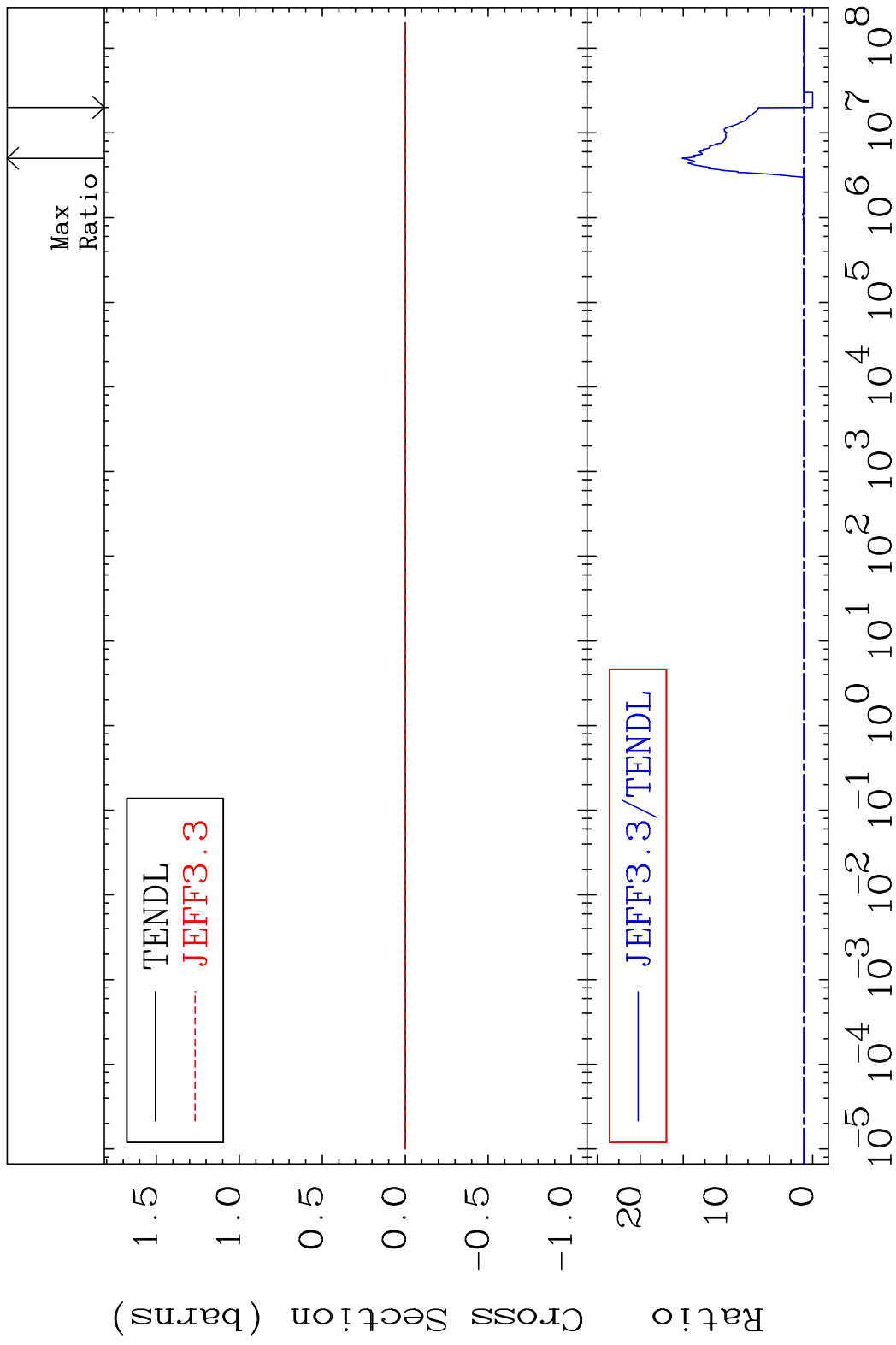


MAT 4037 Kerma inelastic (mt51-91) 40-Zr-94
 Cross Section -100.0 To 1412. %



47 Incident Energy (eV) 40-Zr-94

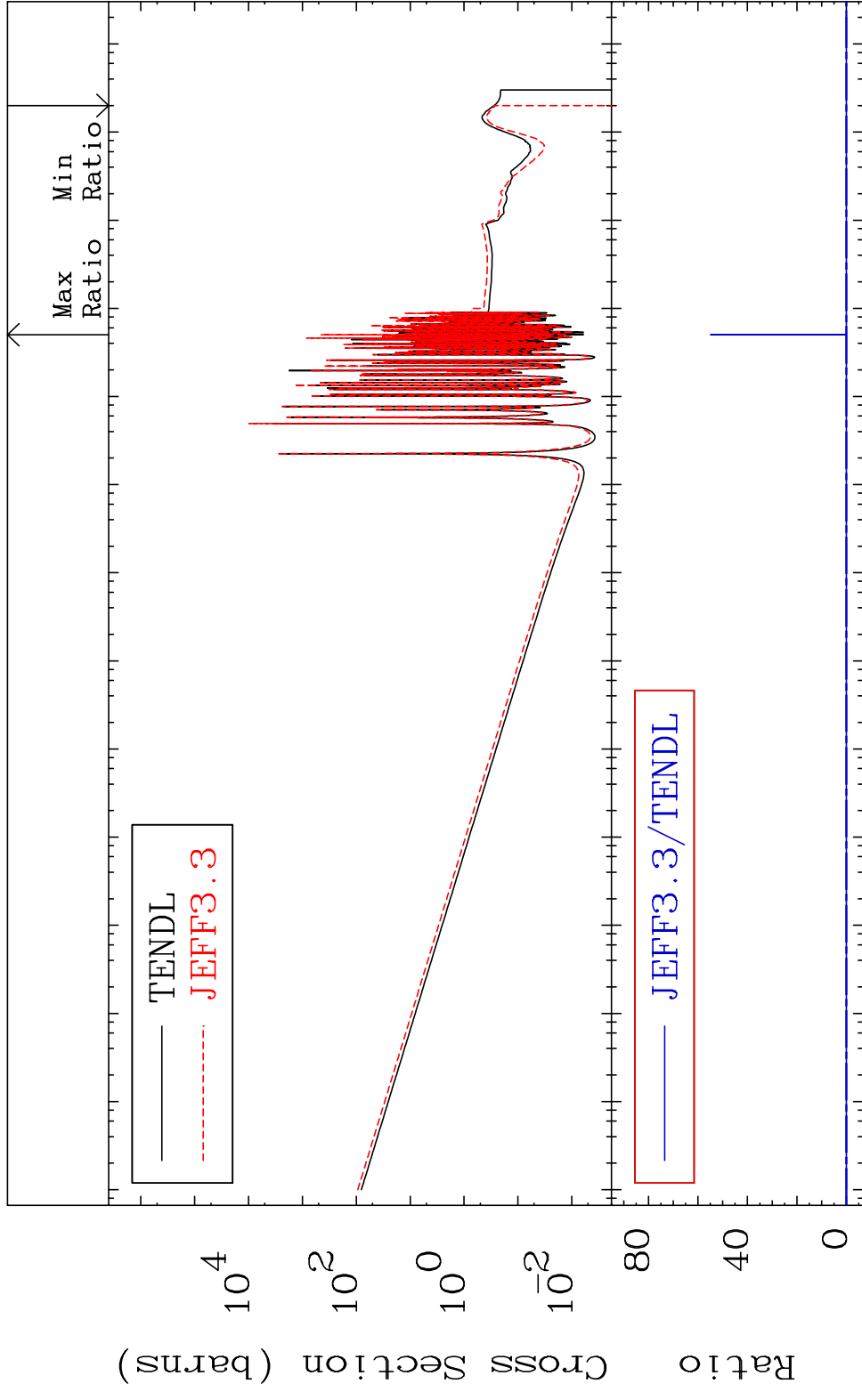
MAT 4037 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-94
 Cross Section -100.0 To 1412. %



MAT 4037

Kerma capture (mt102) 40-Zr-94

Cross Section -100.0 To 9999. %



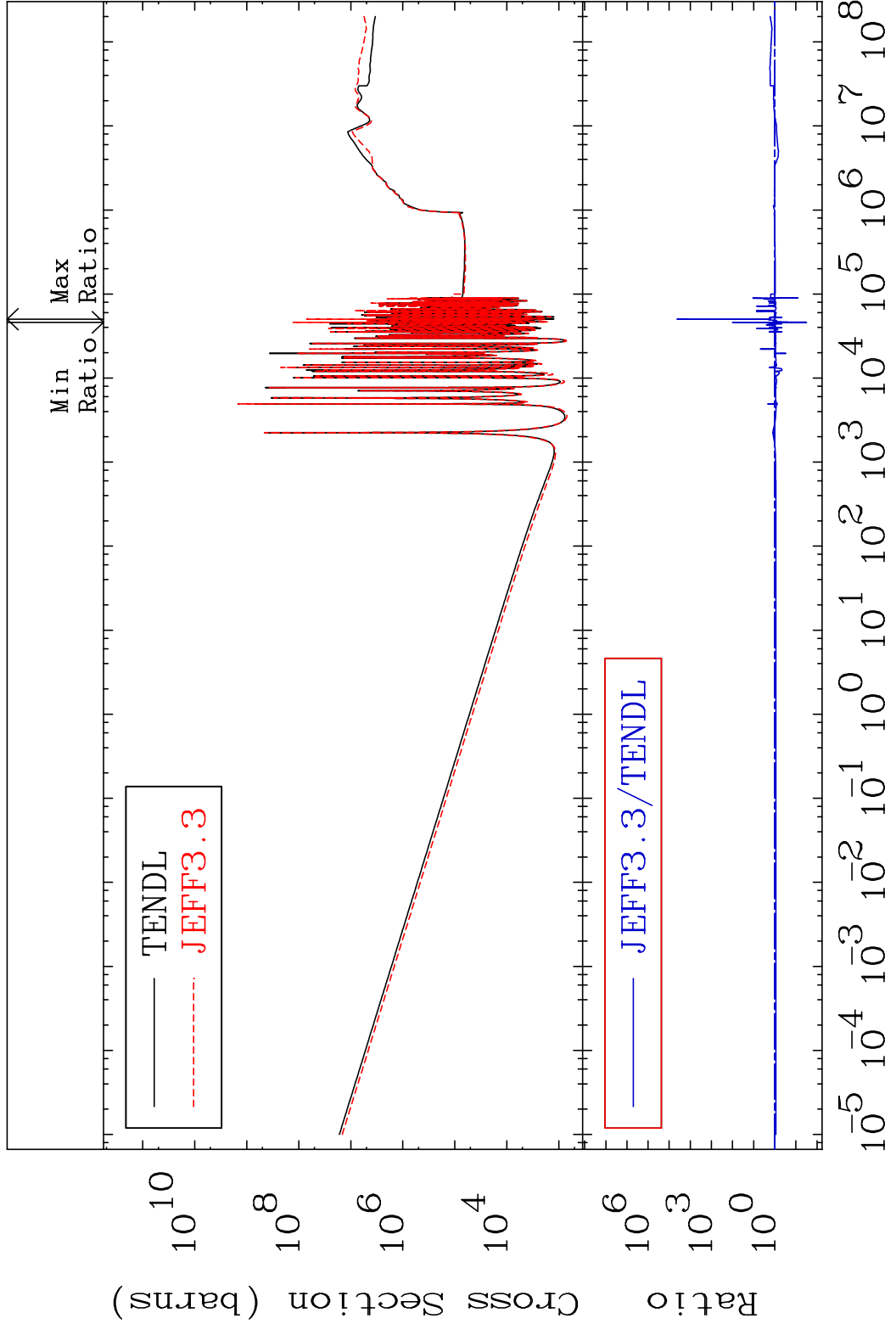
49

Incident Energy (eV)

40-Zr-94

MAT 4037

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

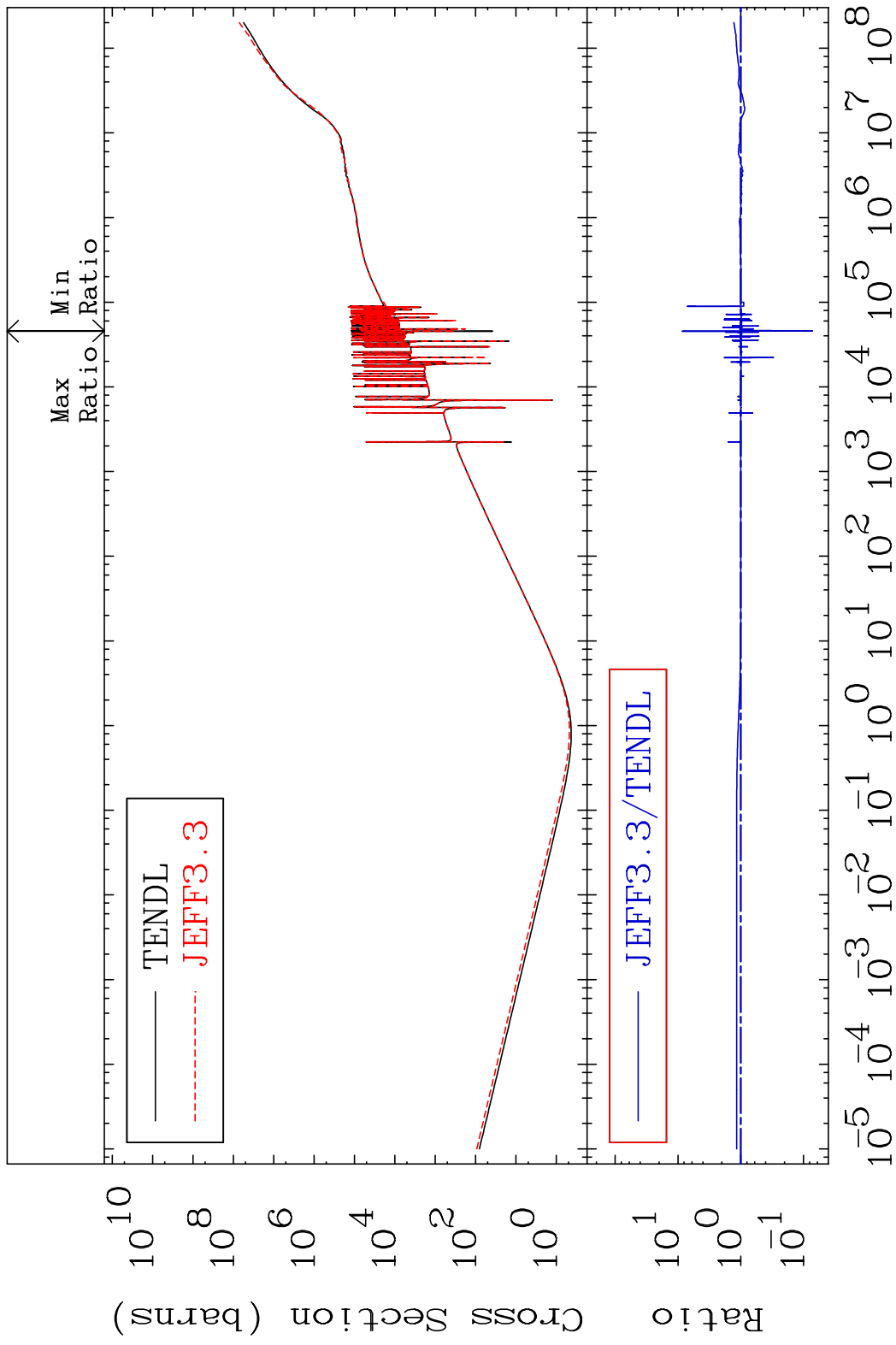


50

Incident Energy (eV)

40-Zr-94

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

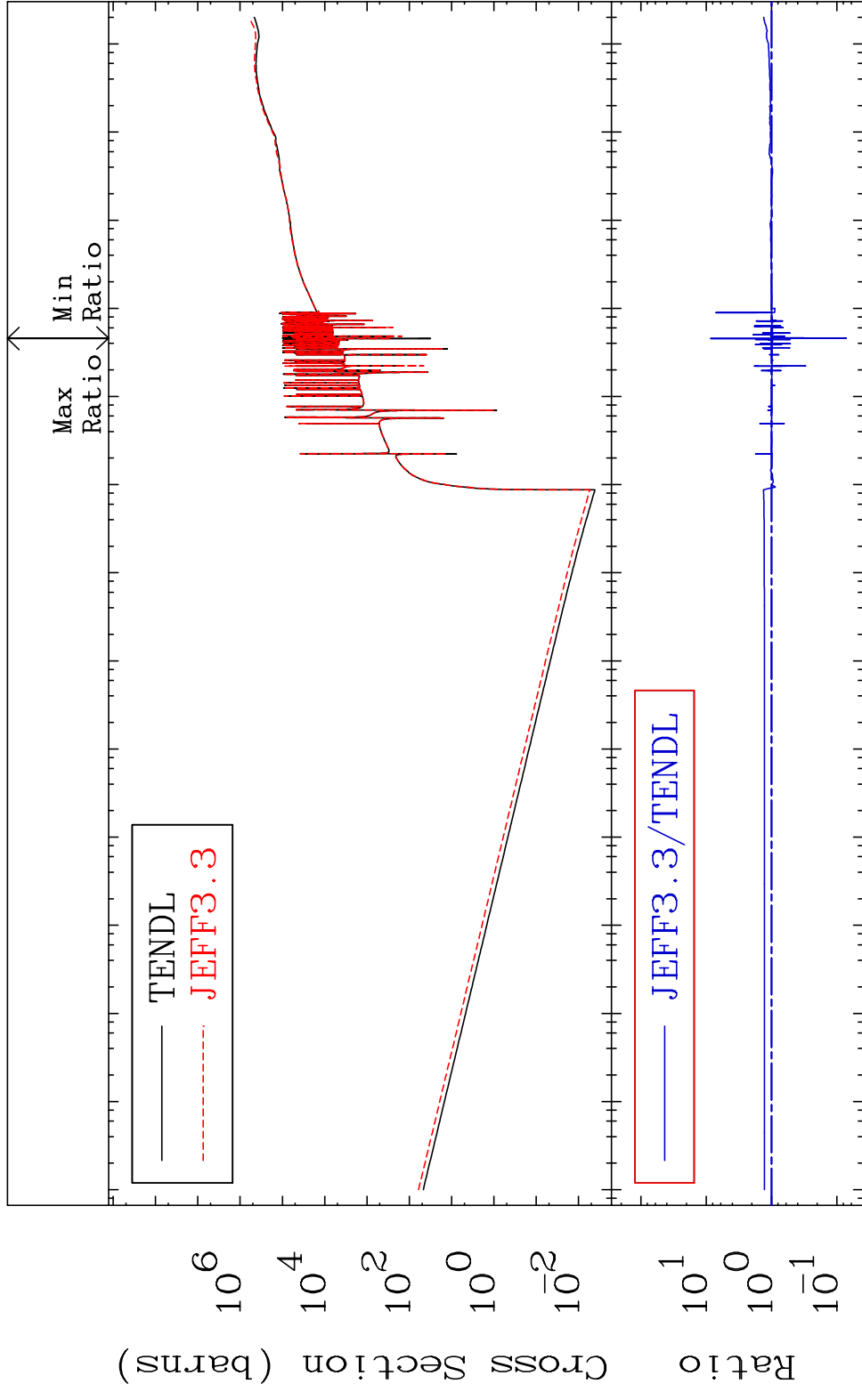


MAT 4037

Dpa total (eV-barns)

40-Zr-94

Cross Section -92.82 To 754.6 %

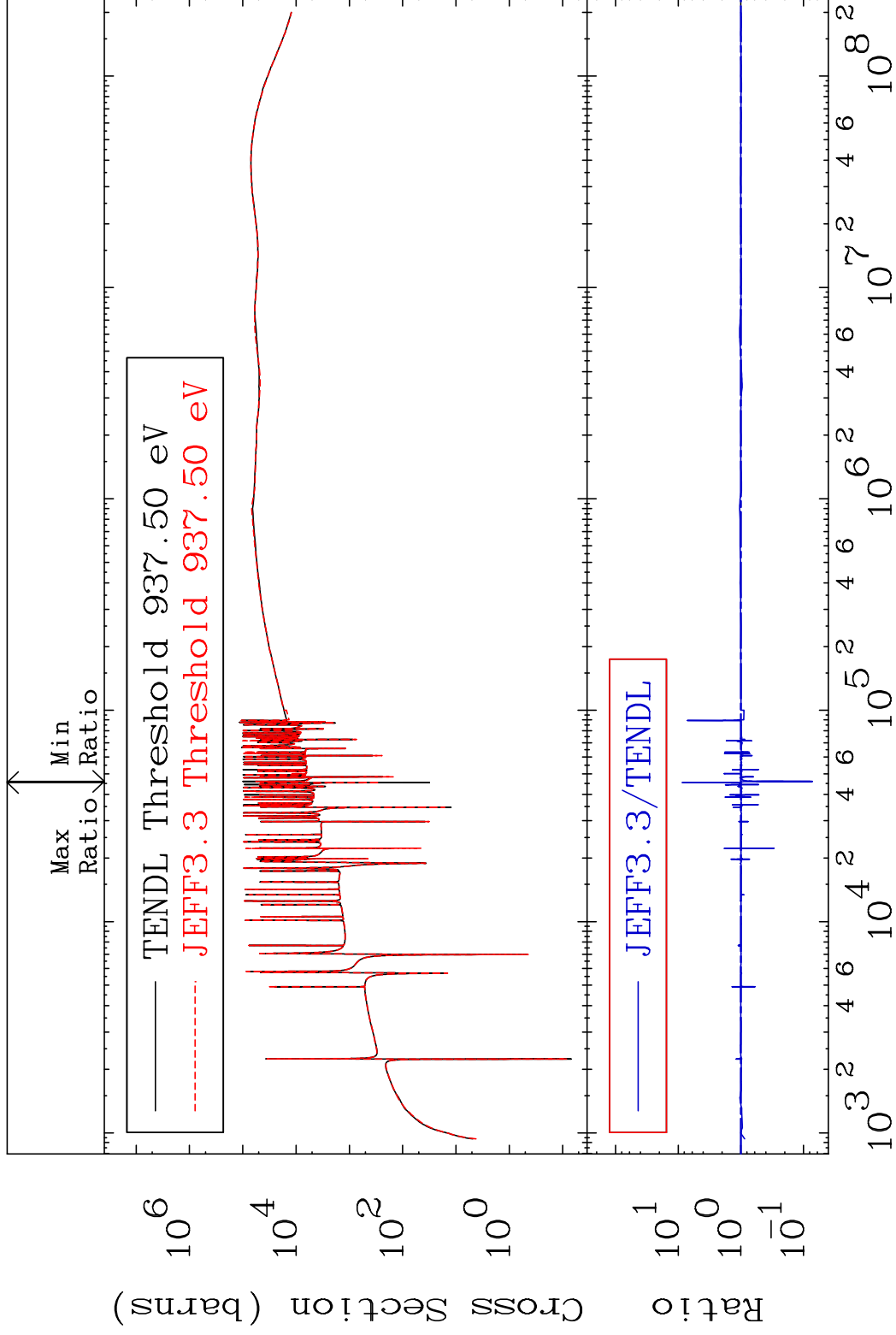


MAT 4037

Dpa elastic (mt2)

40-Zr-94

Cross Section -92.82 To 759.2 %

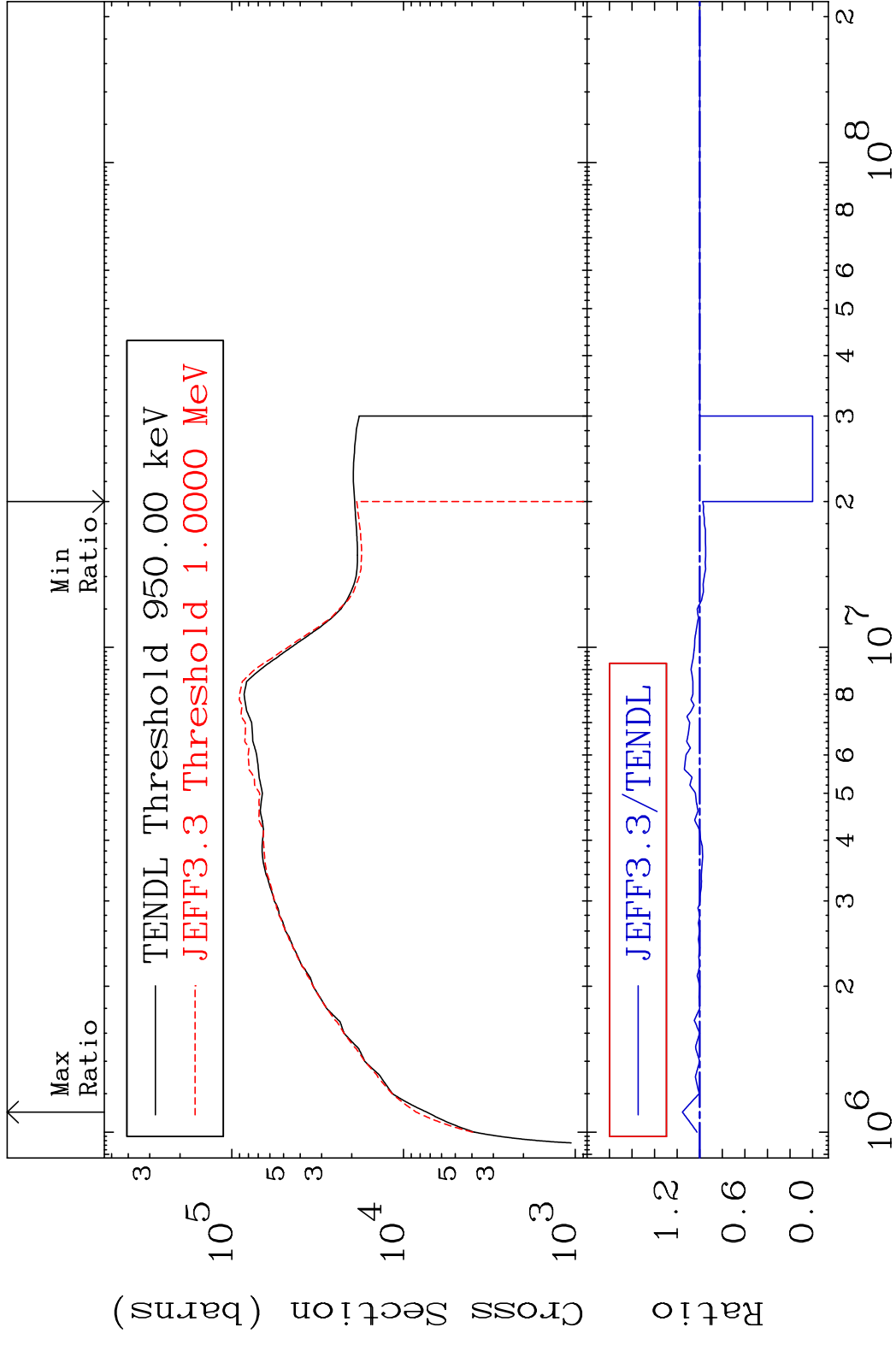


53

Incident Energy (eV)

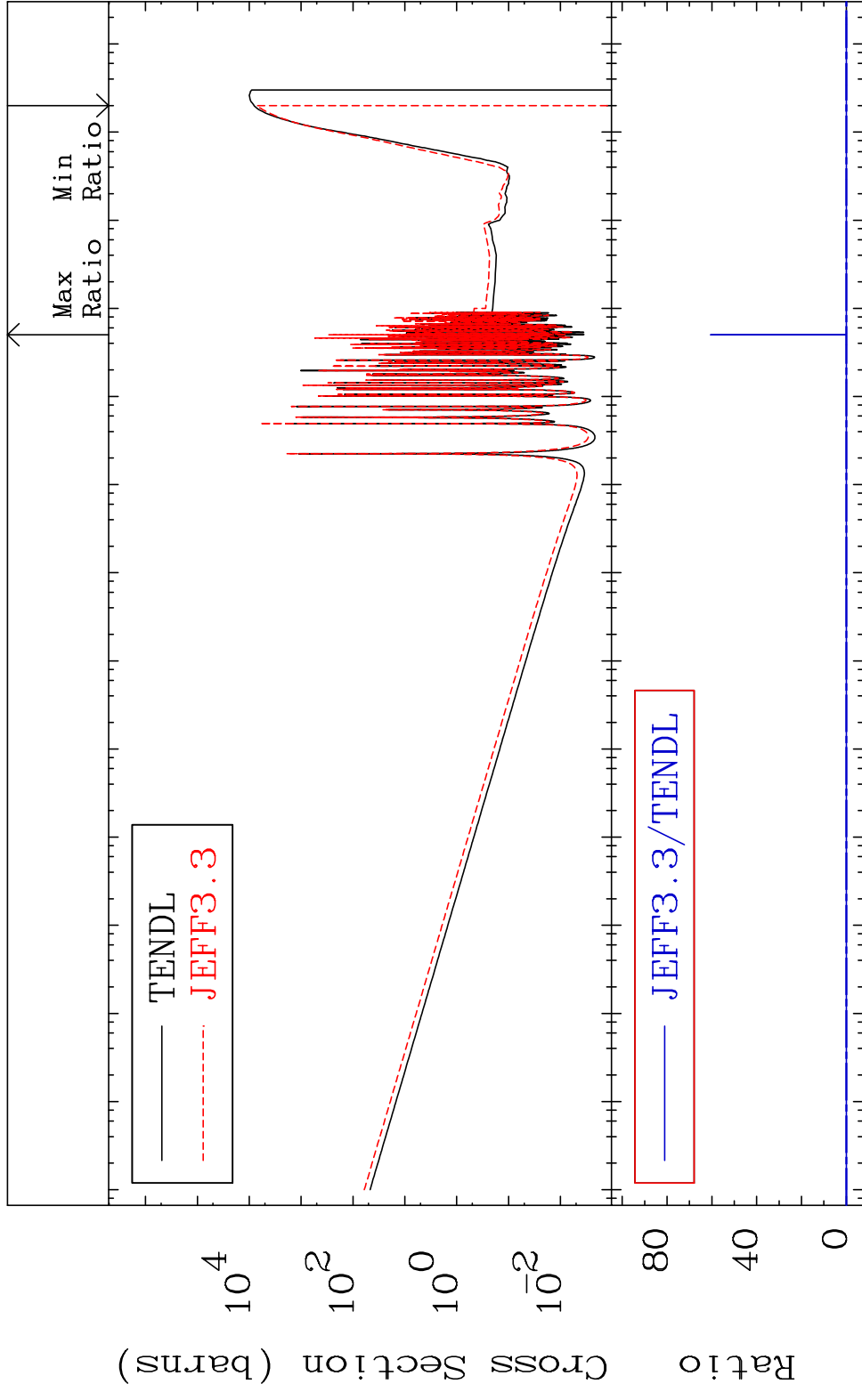
40-Zr-94

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