

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

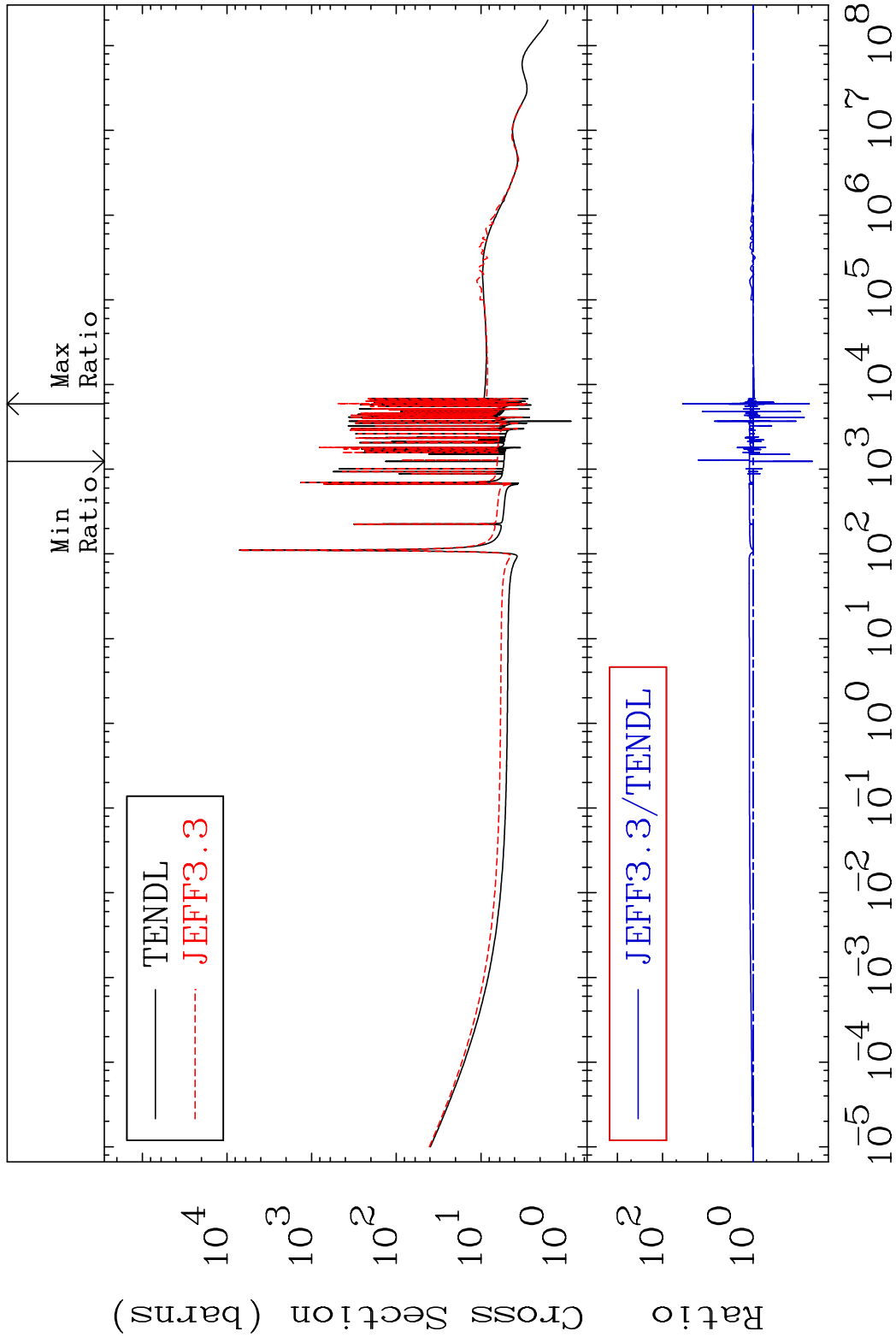
Press Mouse Button to Start

MAT 4034

Total

40-Zr-93

Cross Section -95.20 To 3559. %



1

Incident Energy (eV)

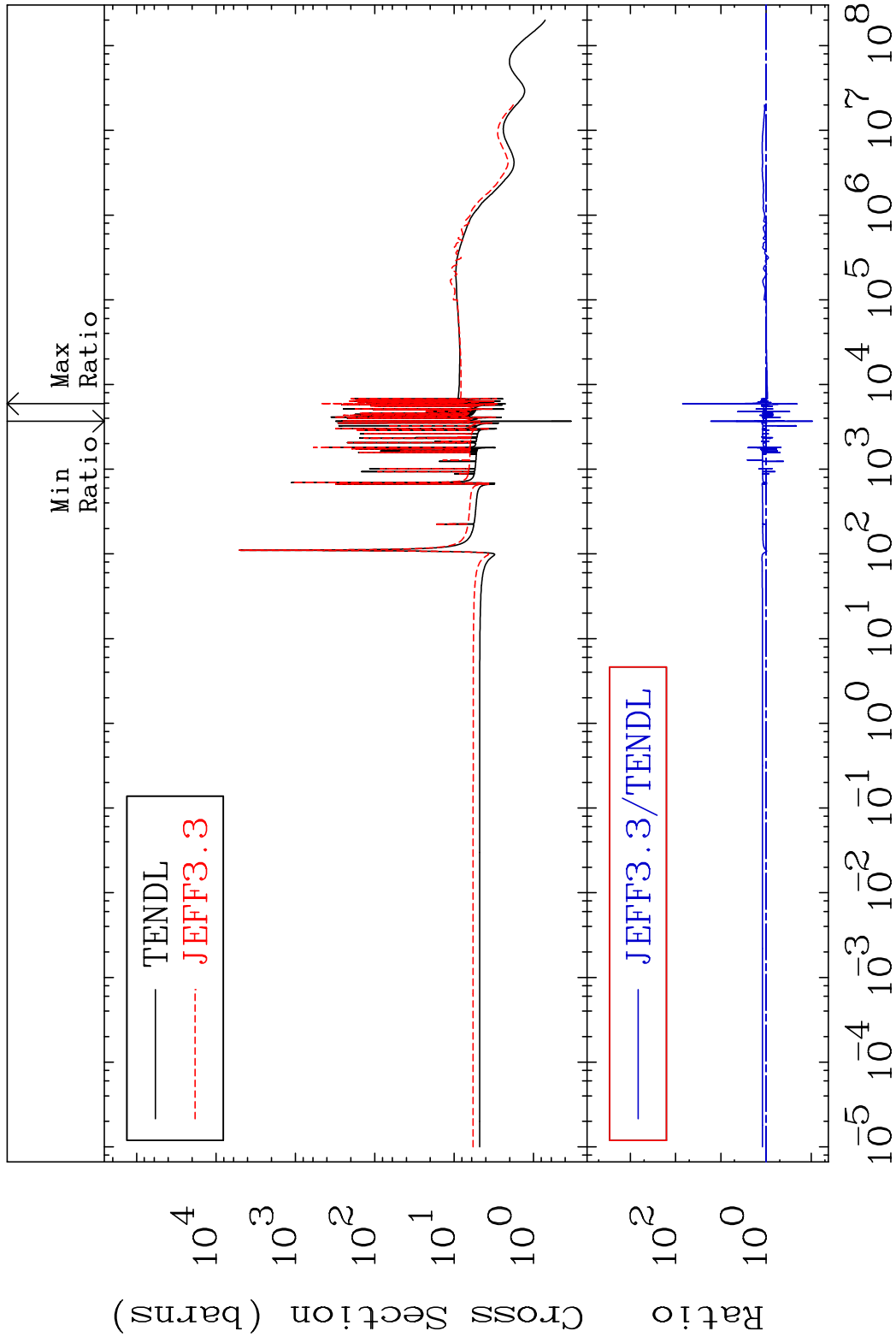
40-Zr-93

MAT 4034

Elastic

40-Zr-93

Cross Section -90.62 To 7002. %

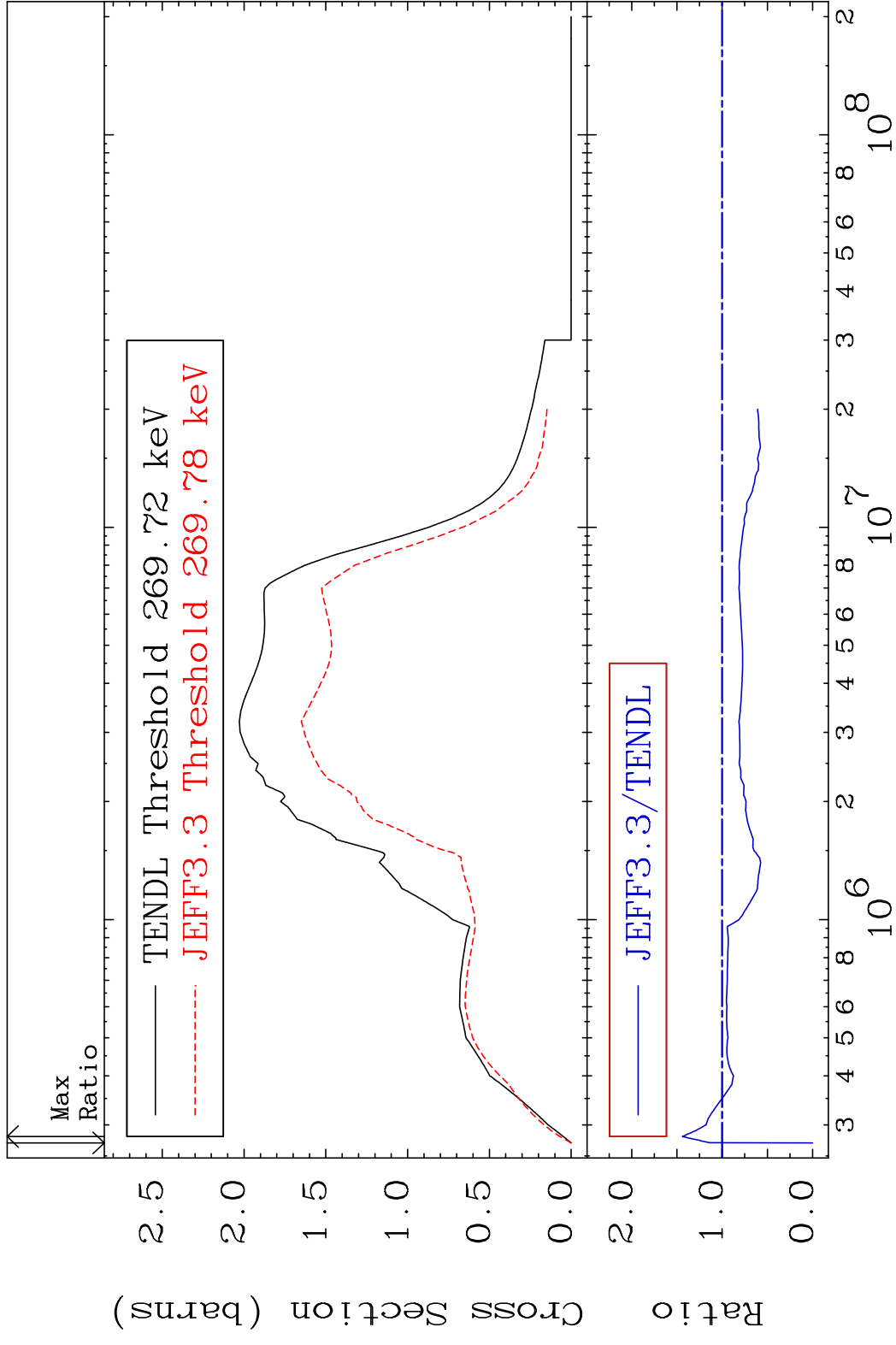


2

Incident Energy (eV)

40-Zr-93

MAT 4034 Inelastic 40-Zr-93
 Cross Section -100.0 To 44.03 %



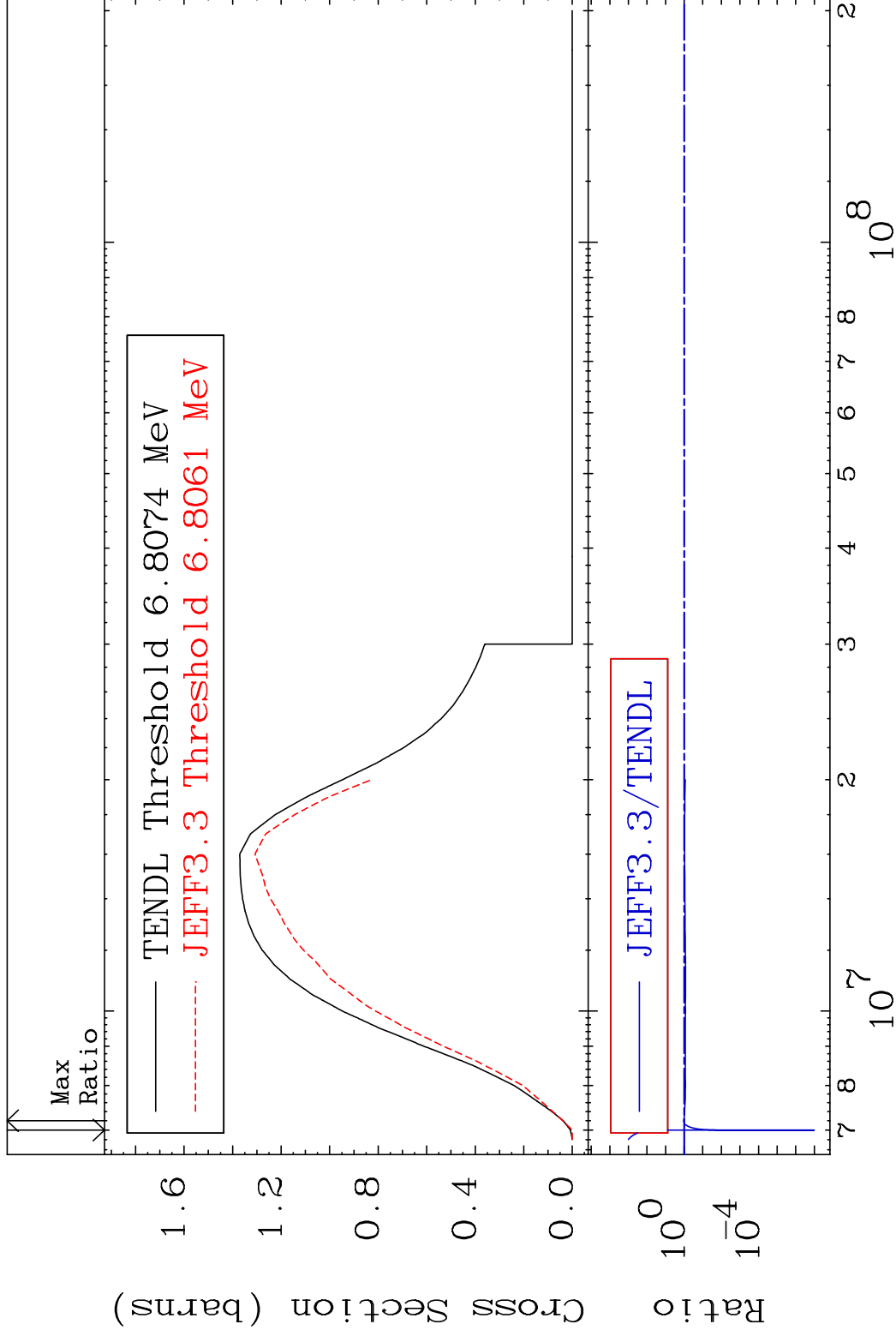
3 Incident Energy (eV) 40-Zr-93

MAT 4034

(n,2n)

40-Zr-93

Cross Section -100.0 To 6.452 %



4

Incident Energy (eV)

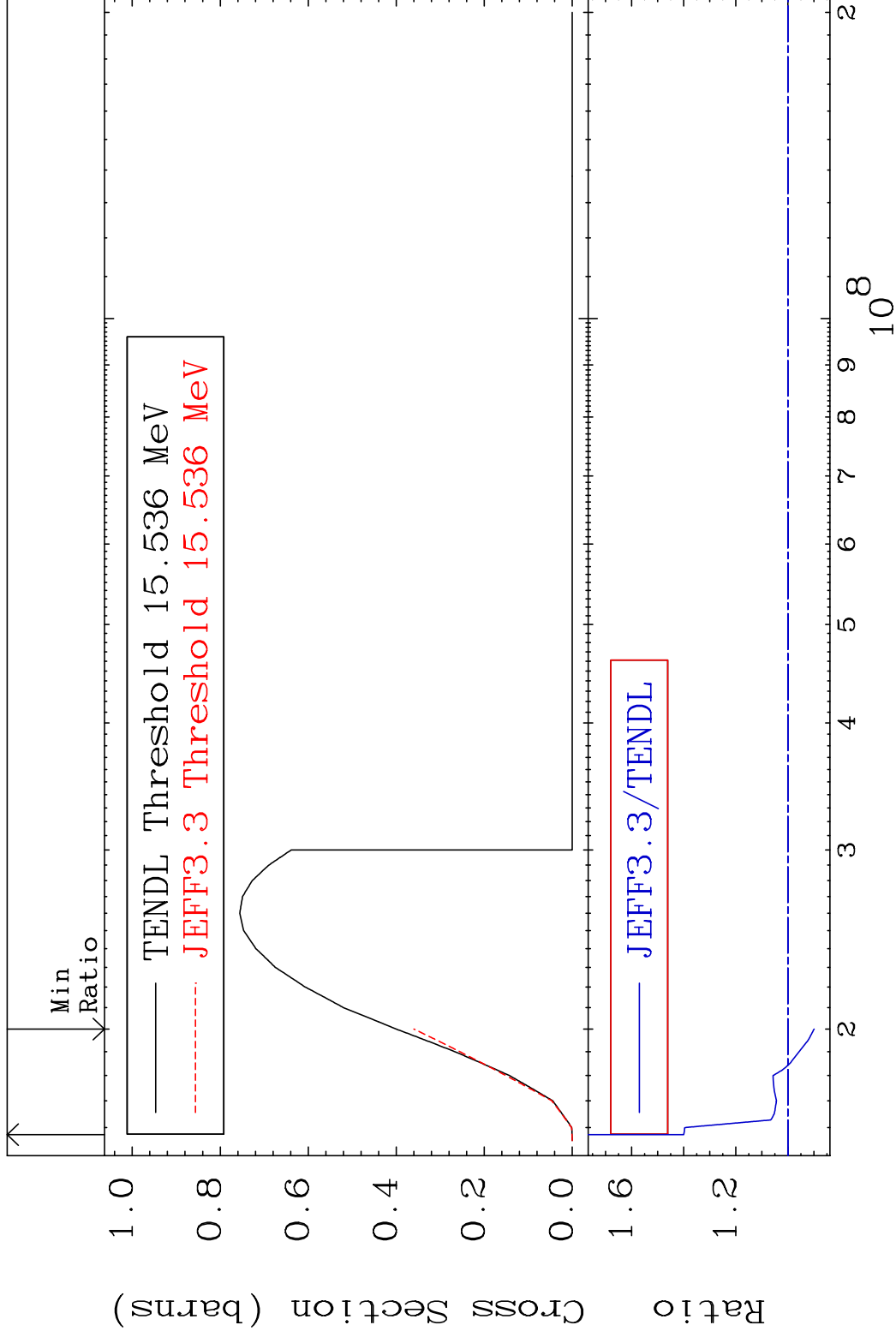
40-Zr-93

MAT 4034

(n,3n)

40-Zr-93

Cross Section -10.05 To 40.03 %



5

Incident Energy (eV)

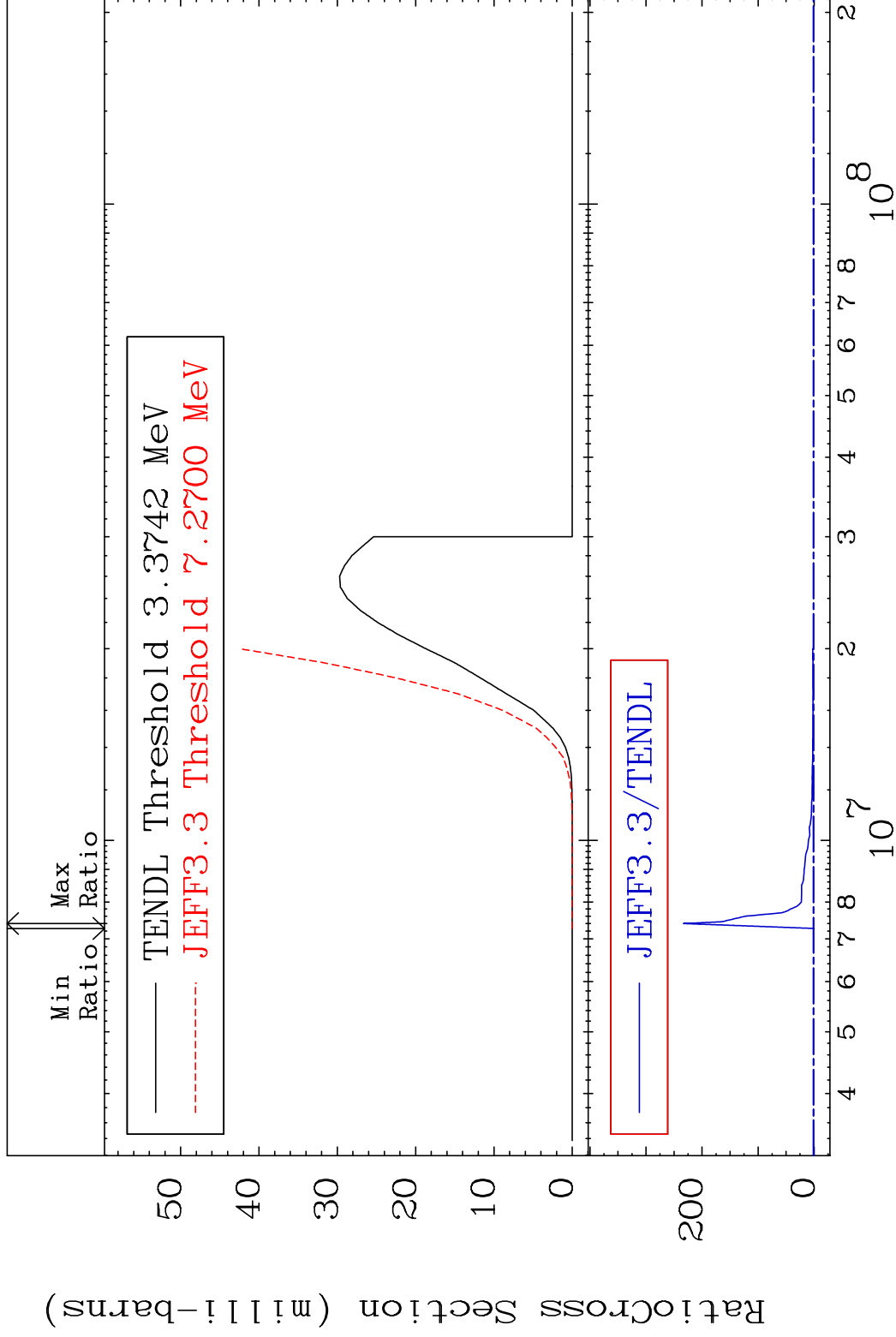
40-Zr-93

MAT 4034

(n, n') α

40-Zr-93

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

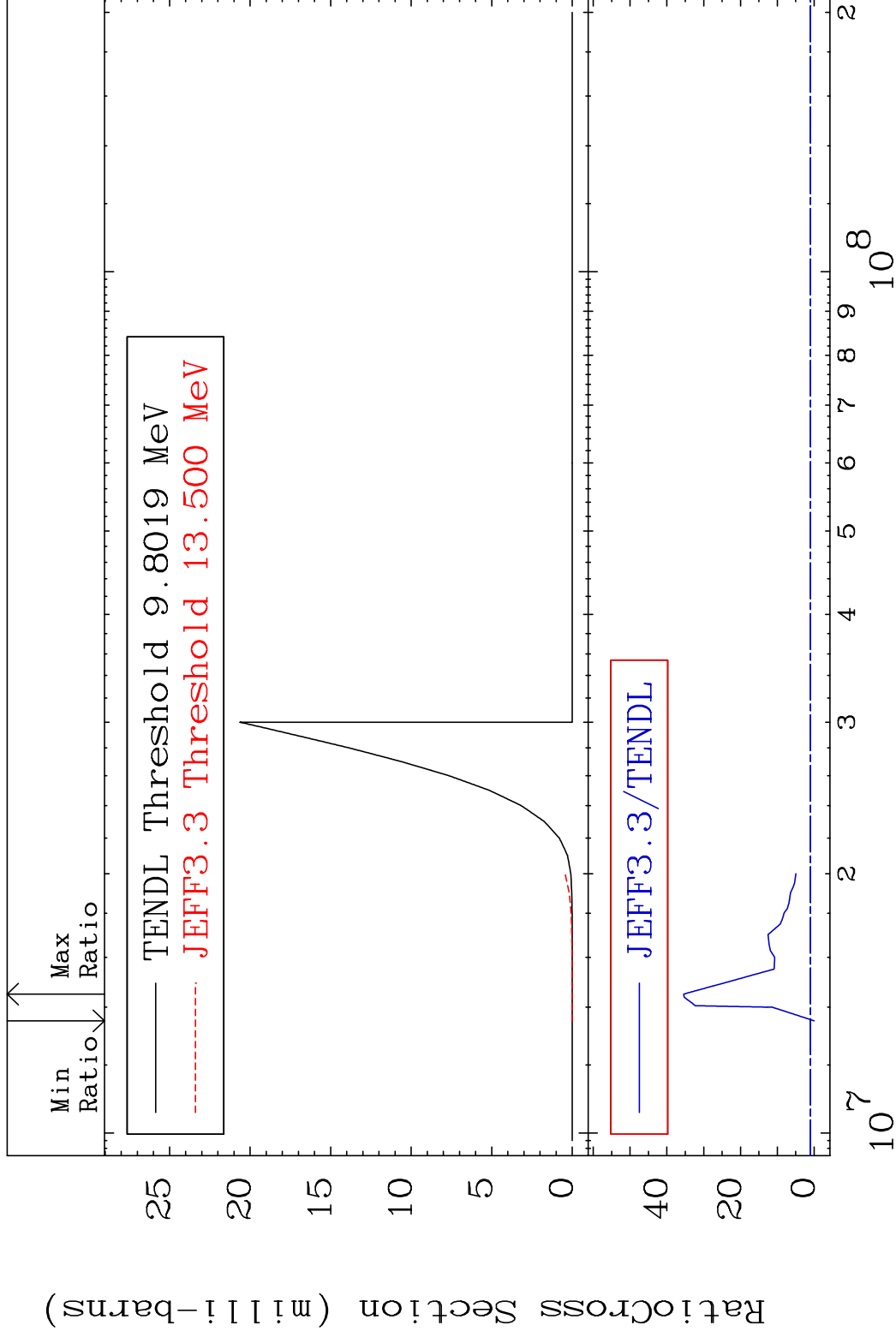
40-Zr-93

MAT 4034

(n,2n) α

40-Zr-93

Cross Section -100.0 To 3444. %



7

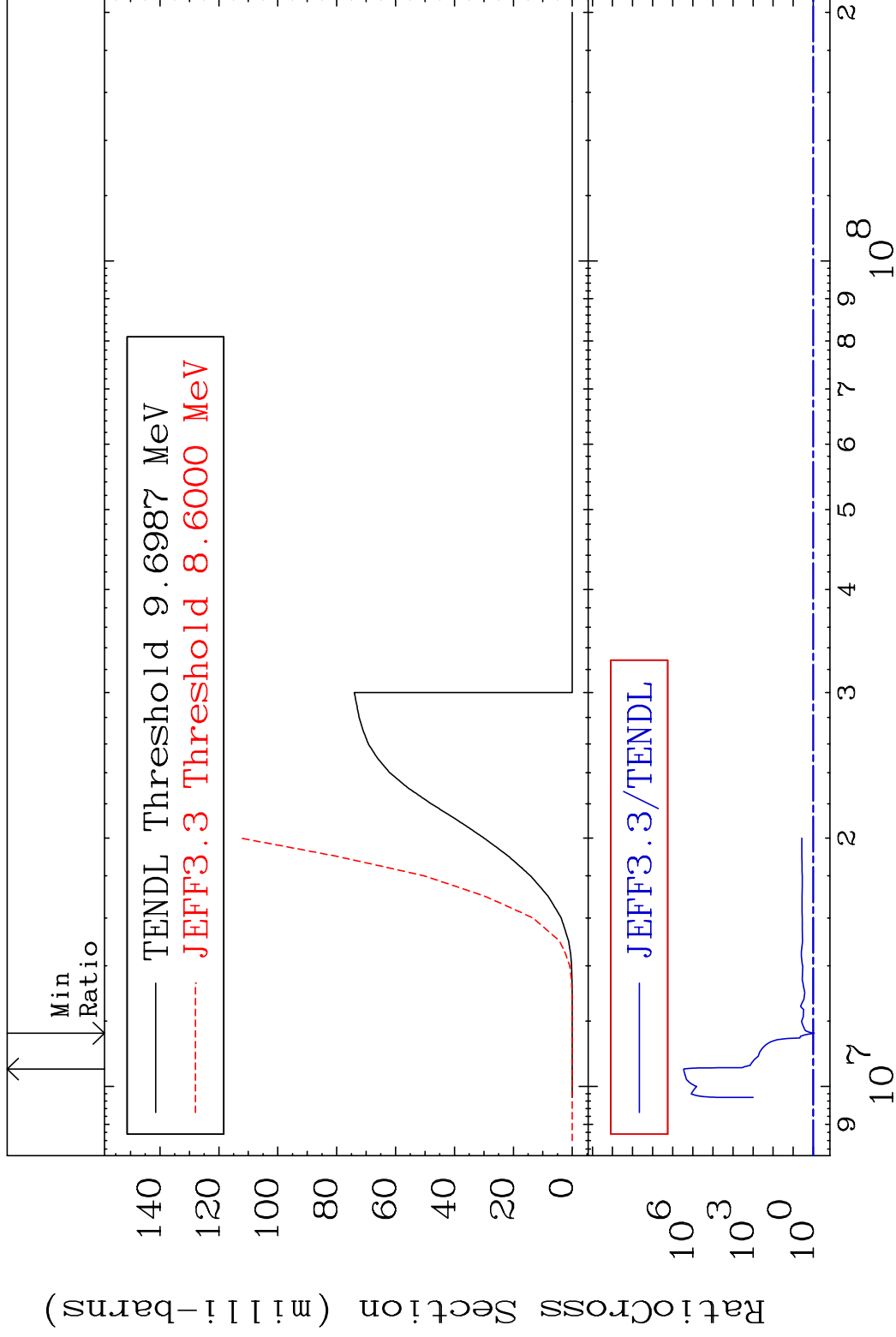
Incident Energy (eV)

40-Zr-93

MAT 4034

(n, n') p 40-Zr-93

Cross Section -8.986 To 9999. %



8

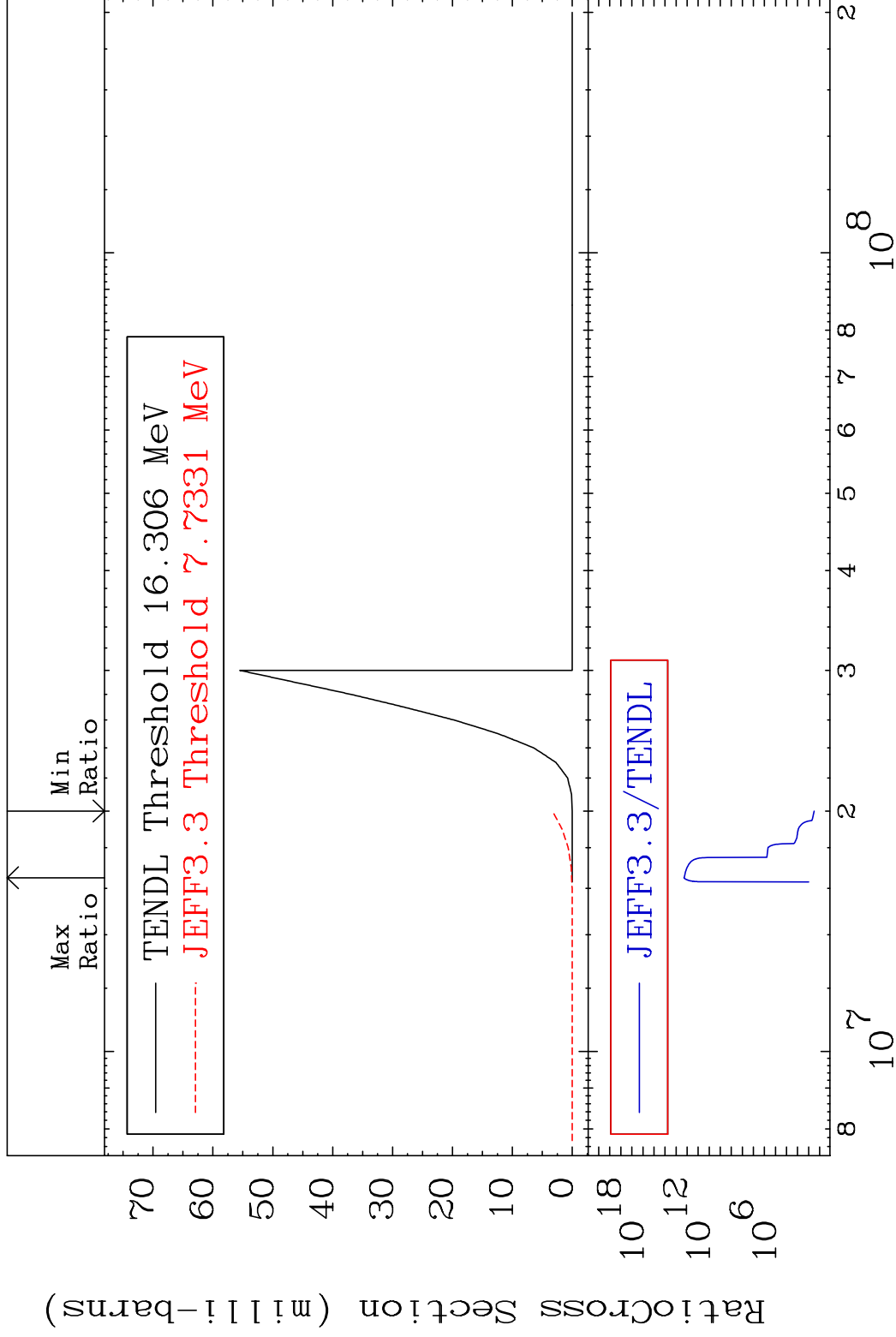
Incident Energy (eV)

40-Zr-93

MAT 4034

(n,2n) p 40-Zr-93

Cross Section 9999. To 9999. %

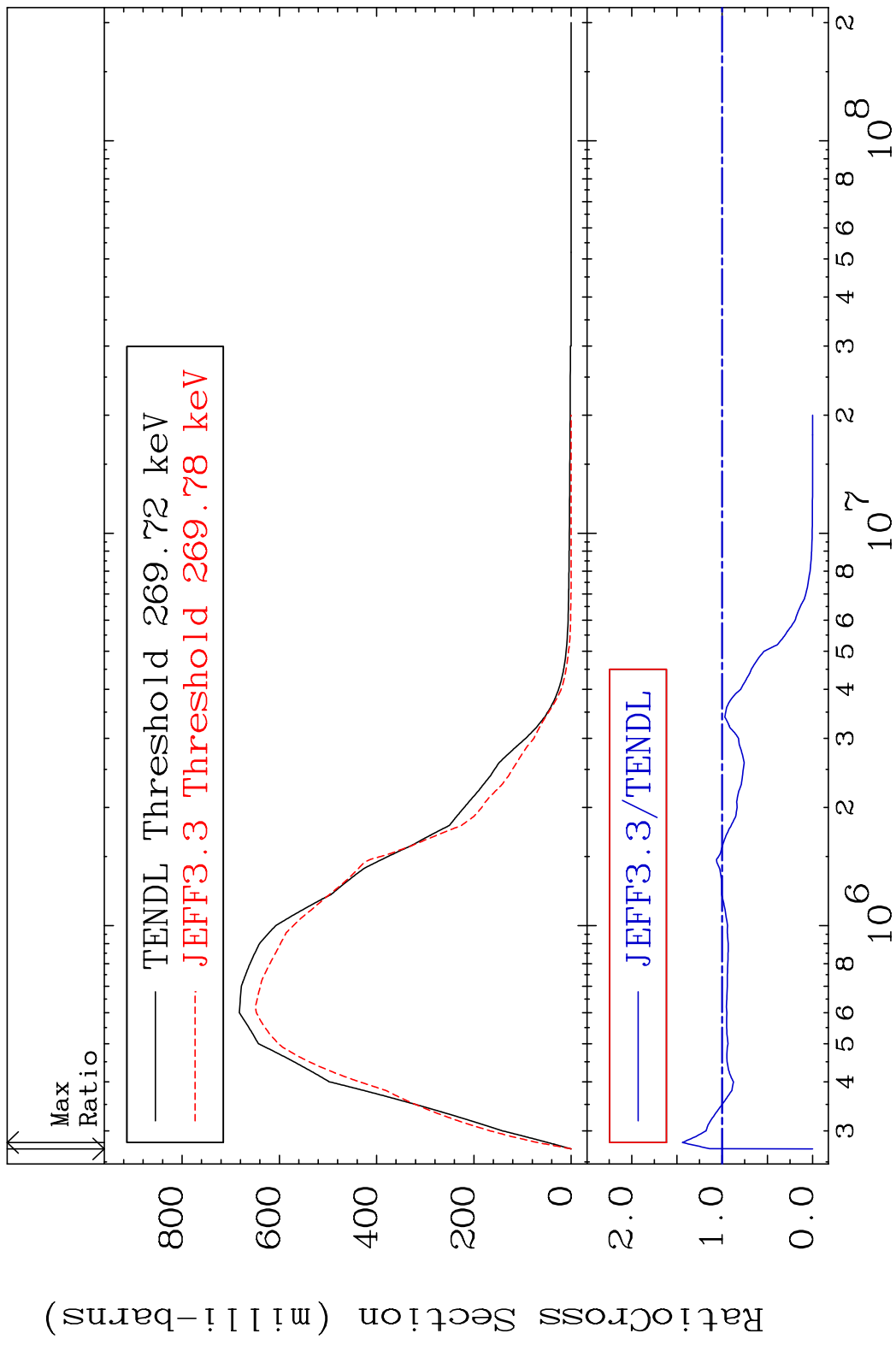


10

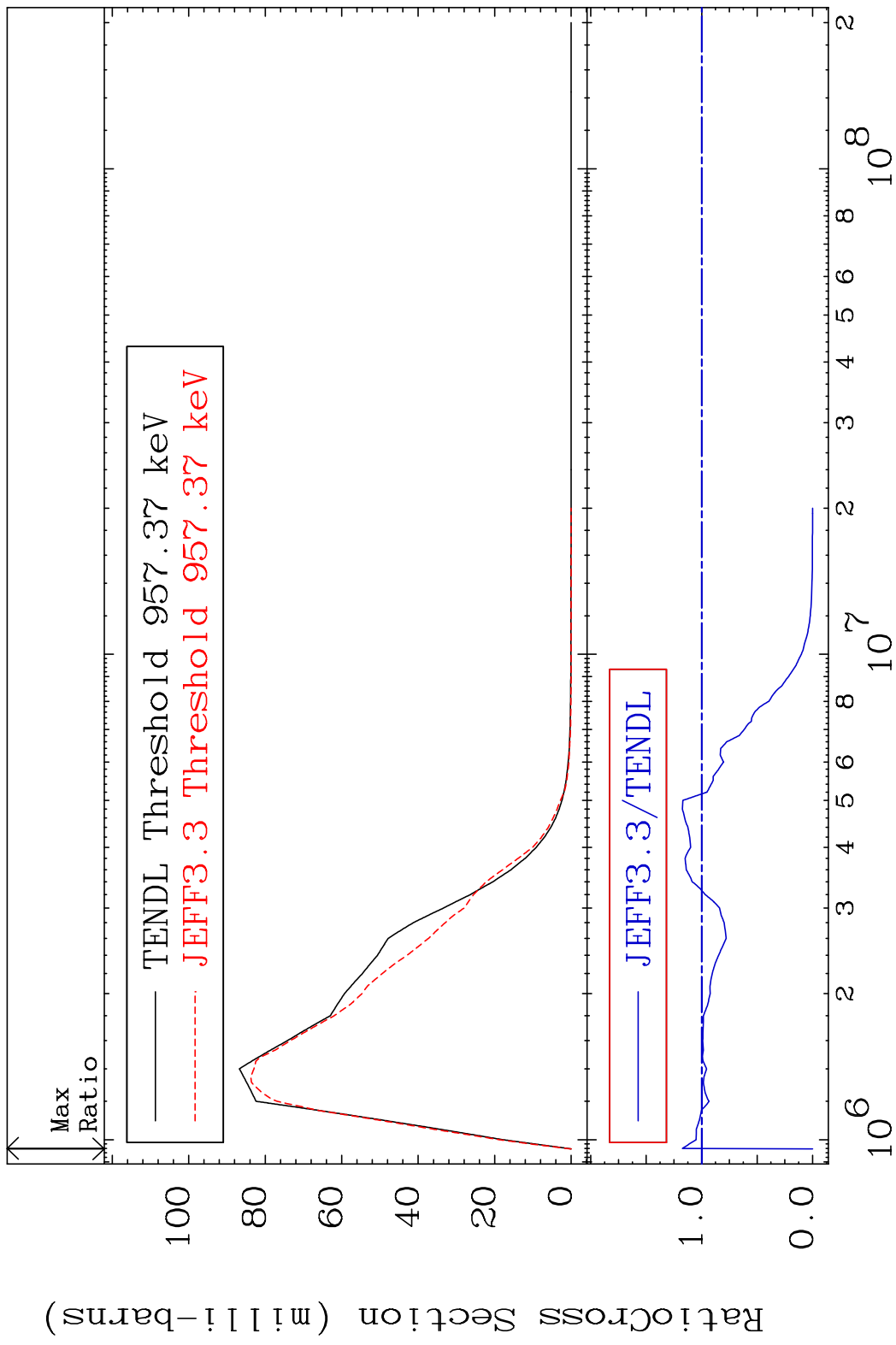
Incident Energy (eV)

40-Zr-93

MAT 4034 MT= 51 (n, n') Level 40-Zr-93
 Cross Section -100.0 To 44.03 %



MAT 4034 MT= 52 (n, n') Level 40-Zr-93
 Cross Section -100.0 To 17.41 %



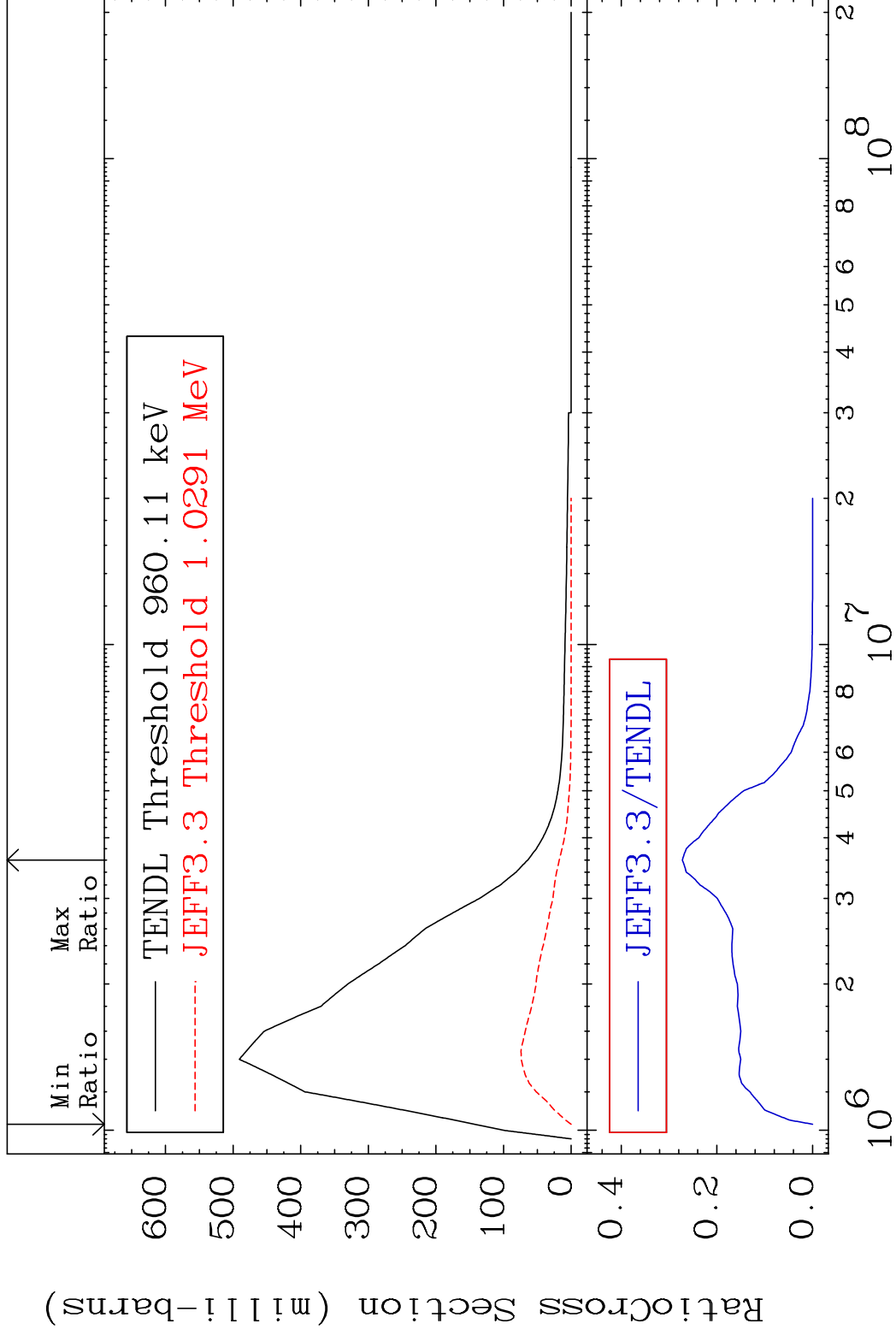
12 Incident Energy (eV) 40-Zr-93

MAT 4034

MT= 53 (n, n') Level

40-Zr-93

Cross Section -100.0 To -72.77%



13

Incident Energy (eV)

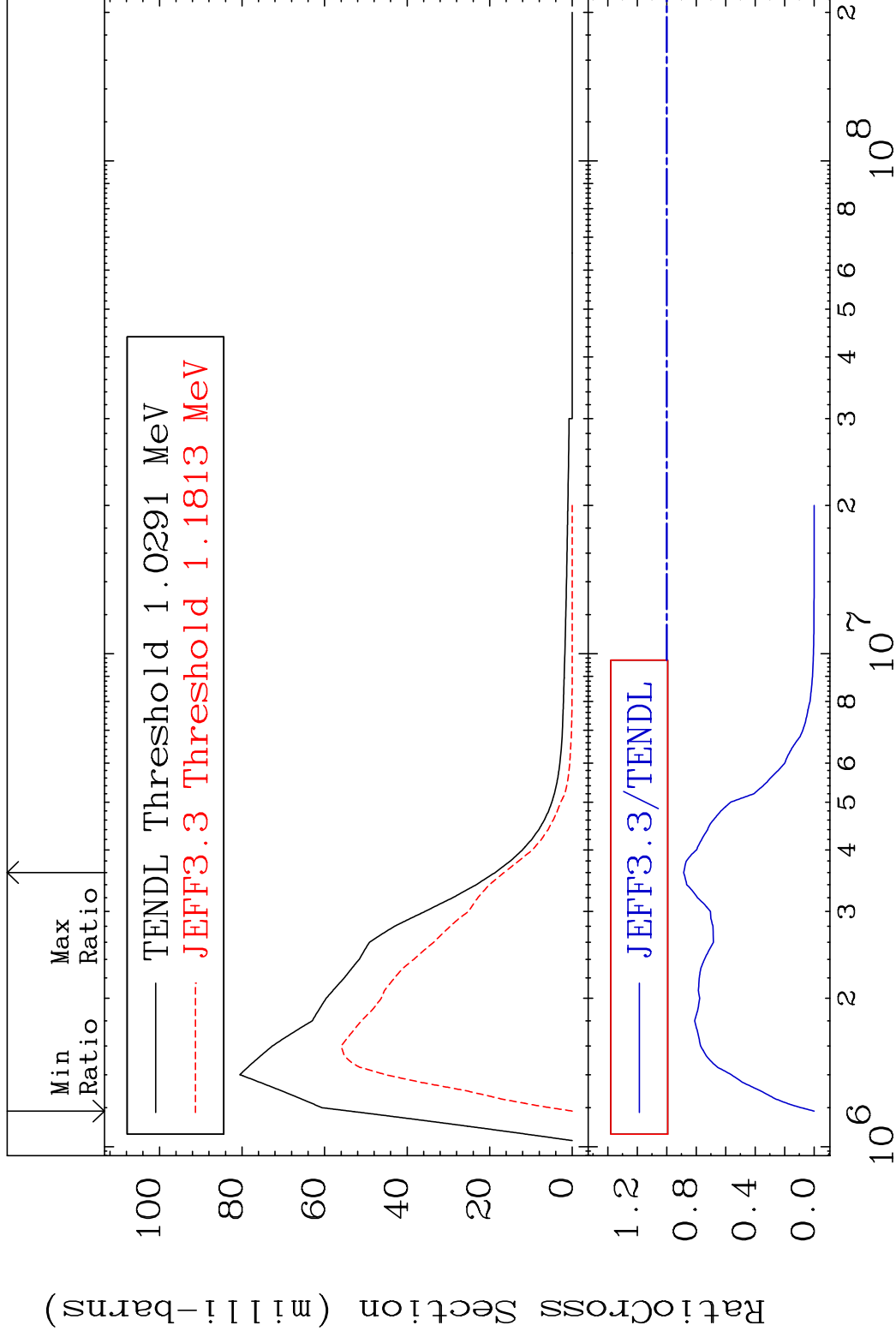
40-Zr-93

MAT 4034

MT= 54 (n,n') Level

40-Zr-93

Cross Section -100.0 To -11.51%

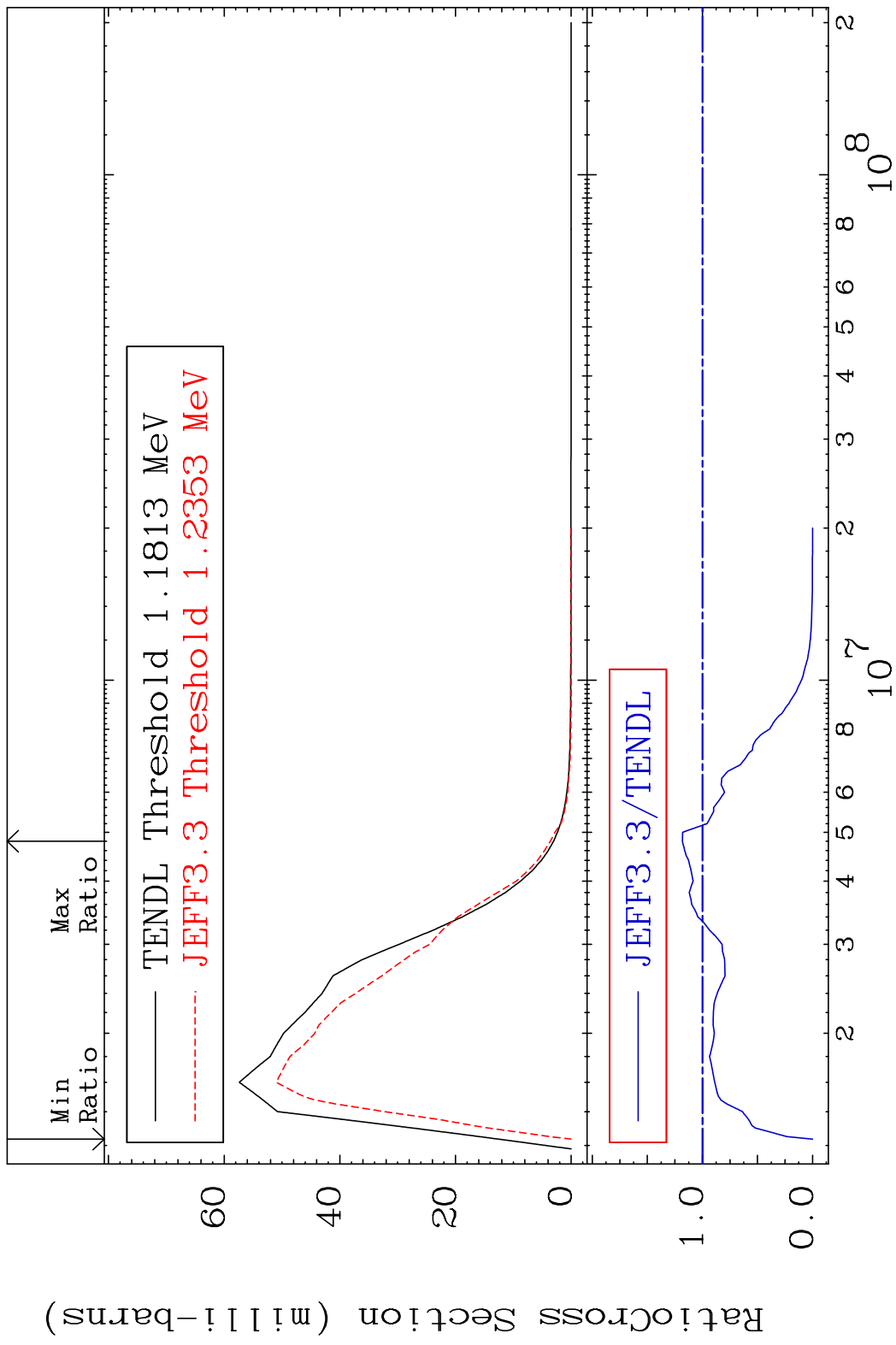


14

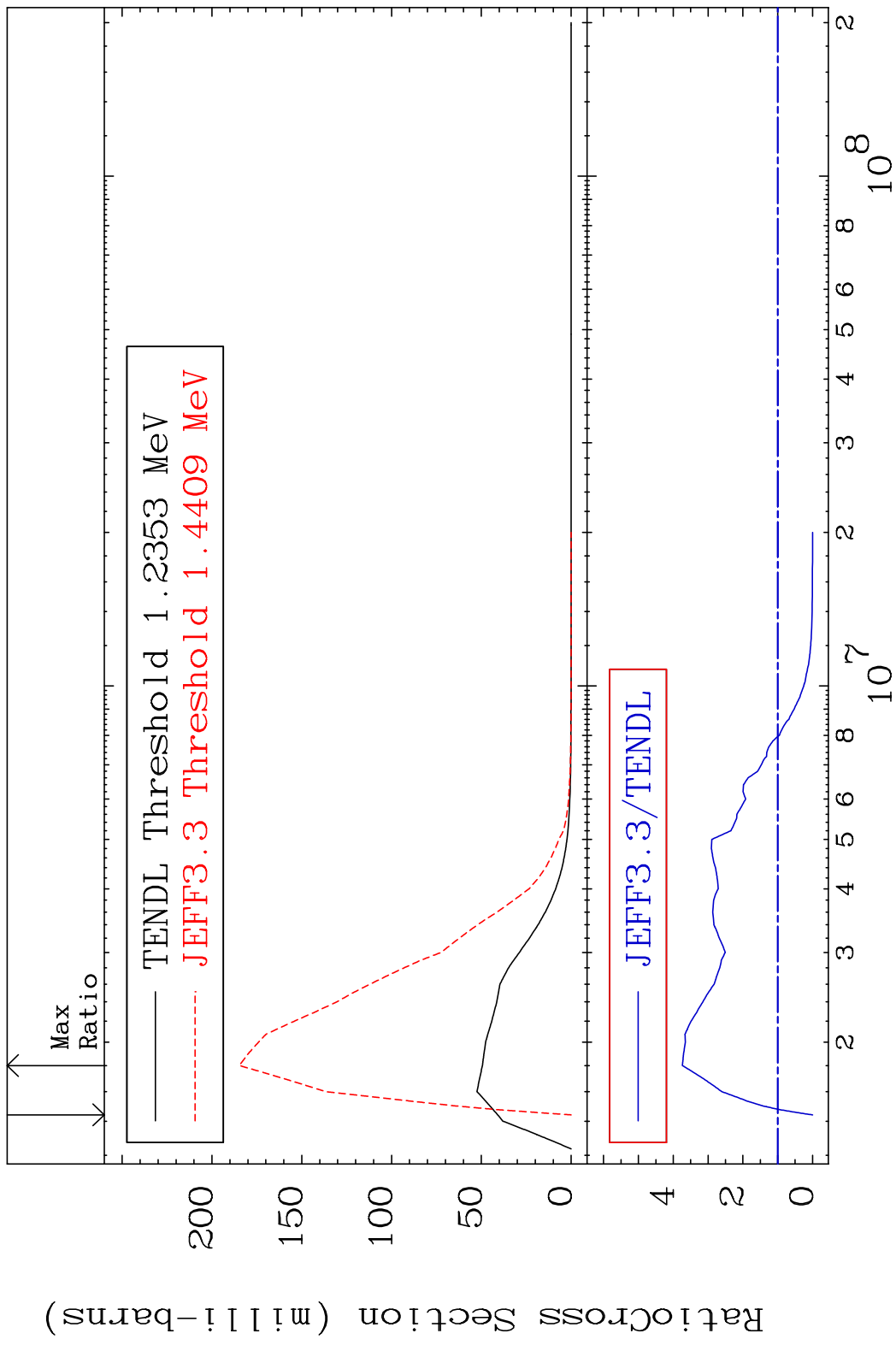
Incident Energy (eV)

40-Zr-93

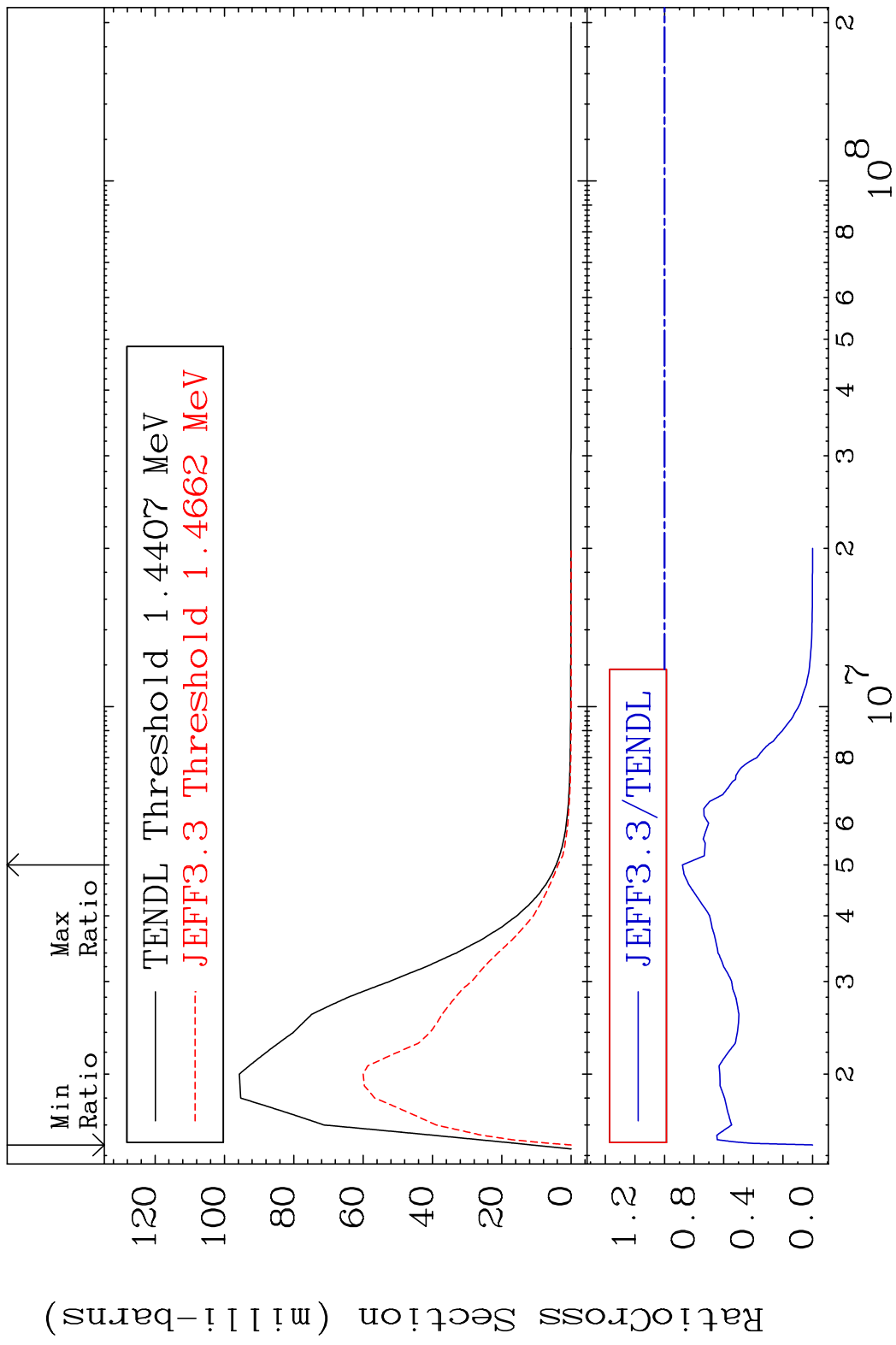
MAT 4034 MT= 55 (n,n') Level 40-Zr-93
 Cross Section -100.0 To 18.23 %



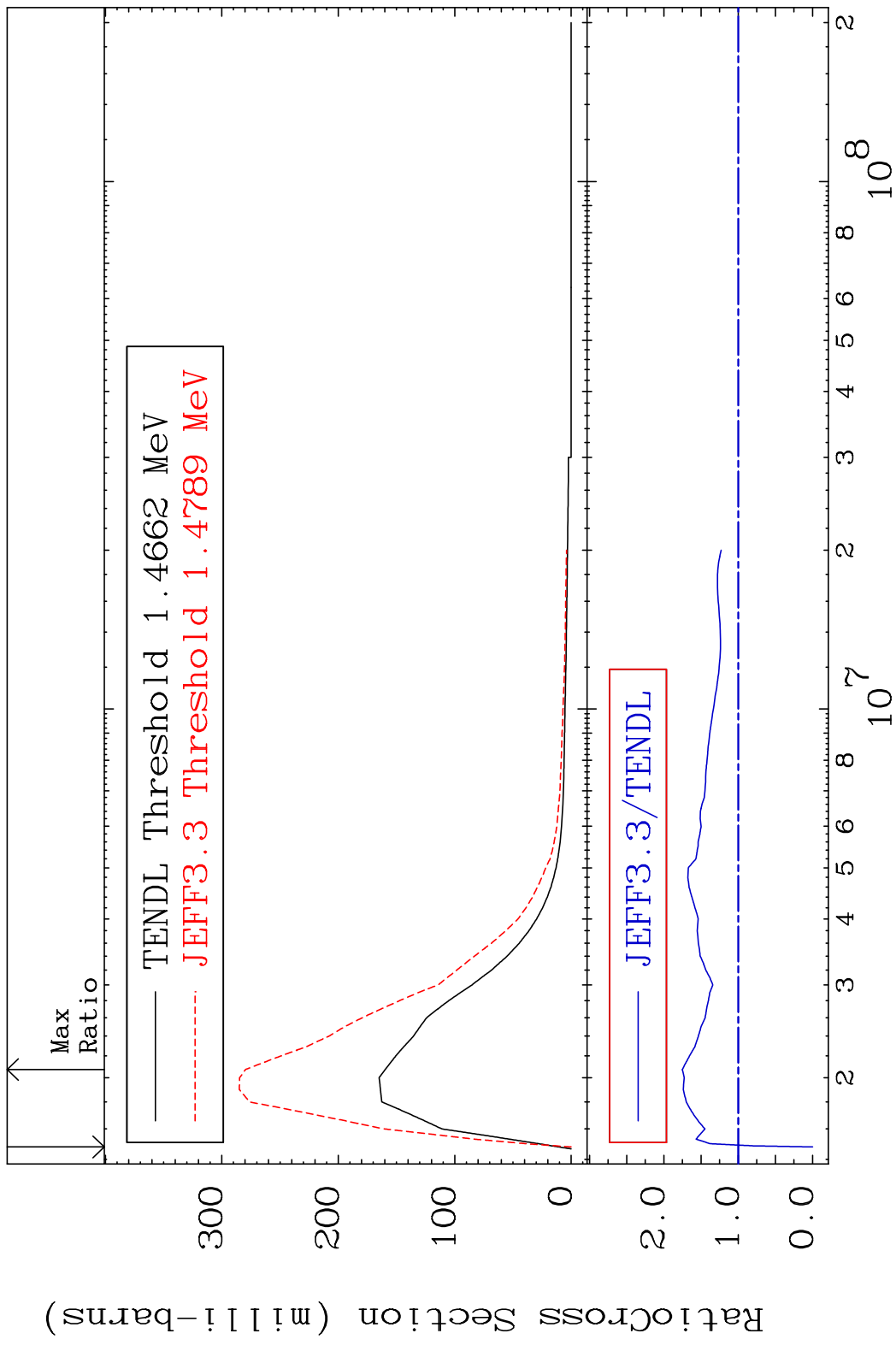
MAT 4034 MT= 56 (n, n') Level 40-Zr-93
 Cross Section -100.0 To 273.8 %



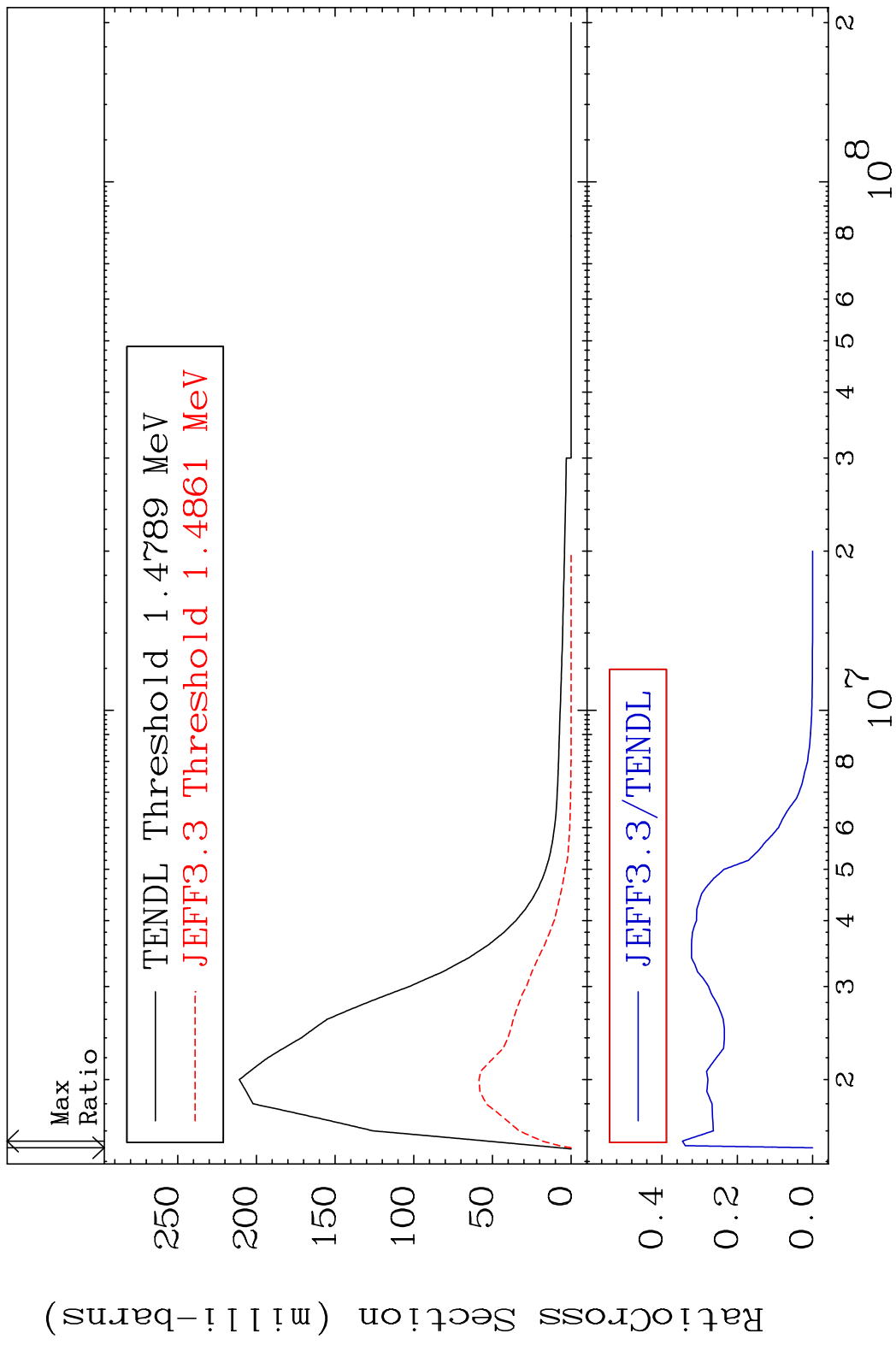
MAT 4034 MT= 57 (n,n') Level 40-Zr-93
 Cross Section -100.0 To -12.05%



MAT 4034 MT= 58 (n, n') Level 40-Zr-93
 Cross Section -100.0 To 75.13 %

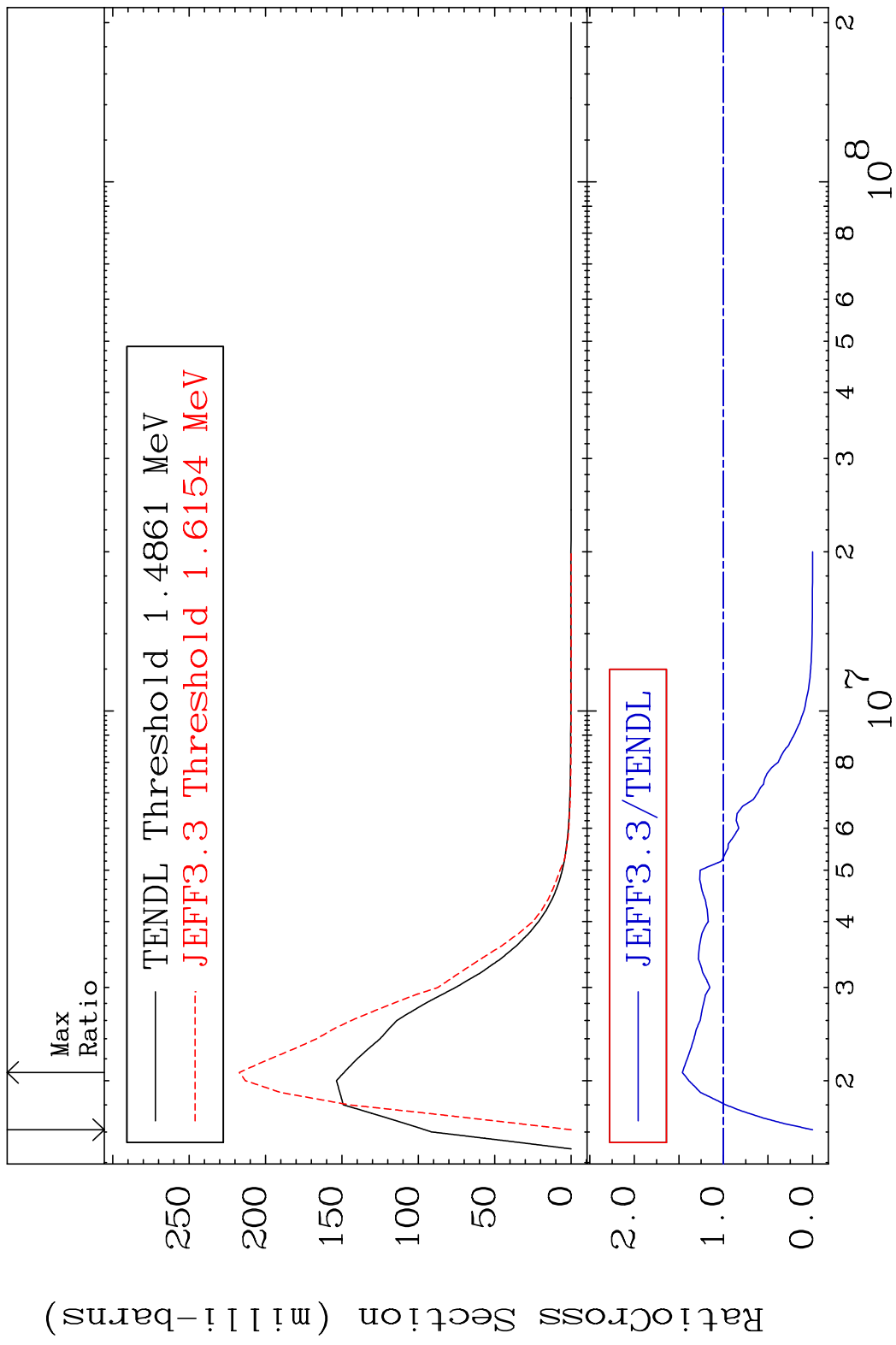


MAT 4034 MT= 59 (n, n') Level 40-Zr-93
 Cross Section -100.0 To -65.41%

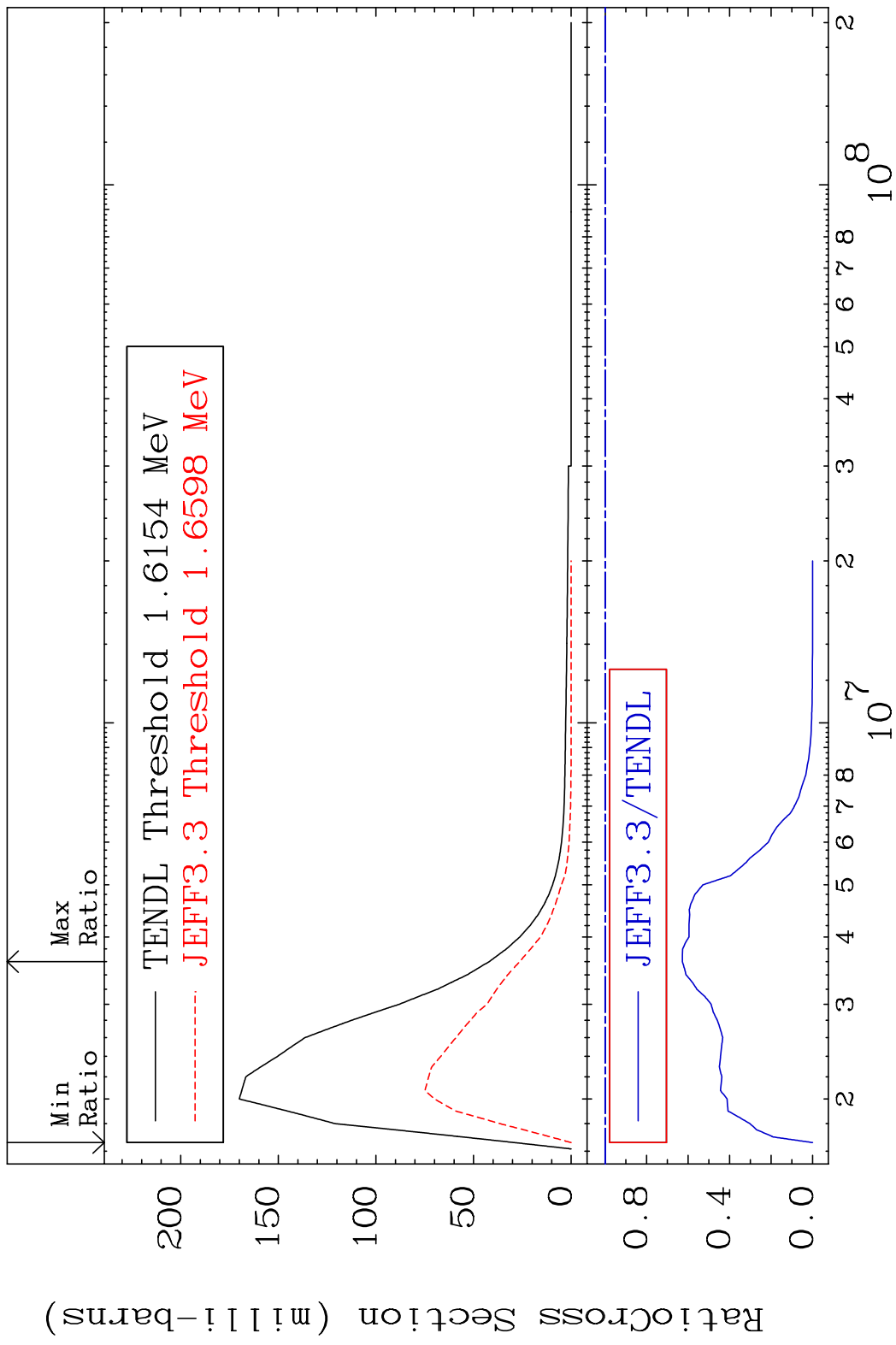


19 Incident Energy (eV) 40-Zr-93

MAT 4034 MT= 60 (n, n') Level 40-Zr-93
 Cross Section -100.0 To 46.10 %

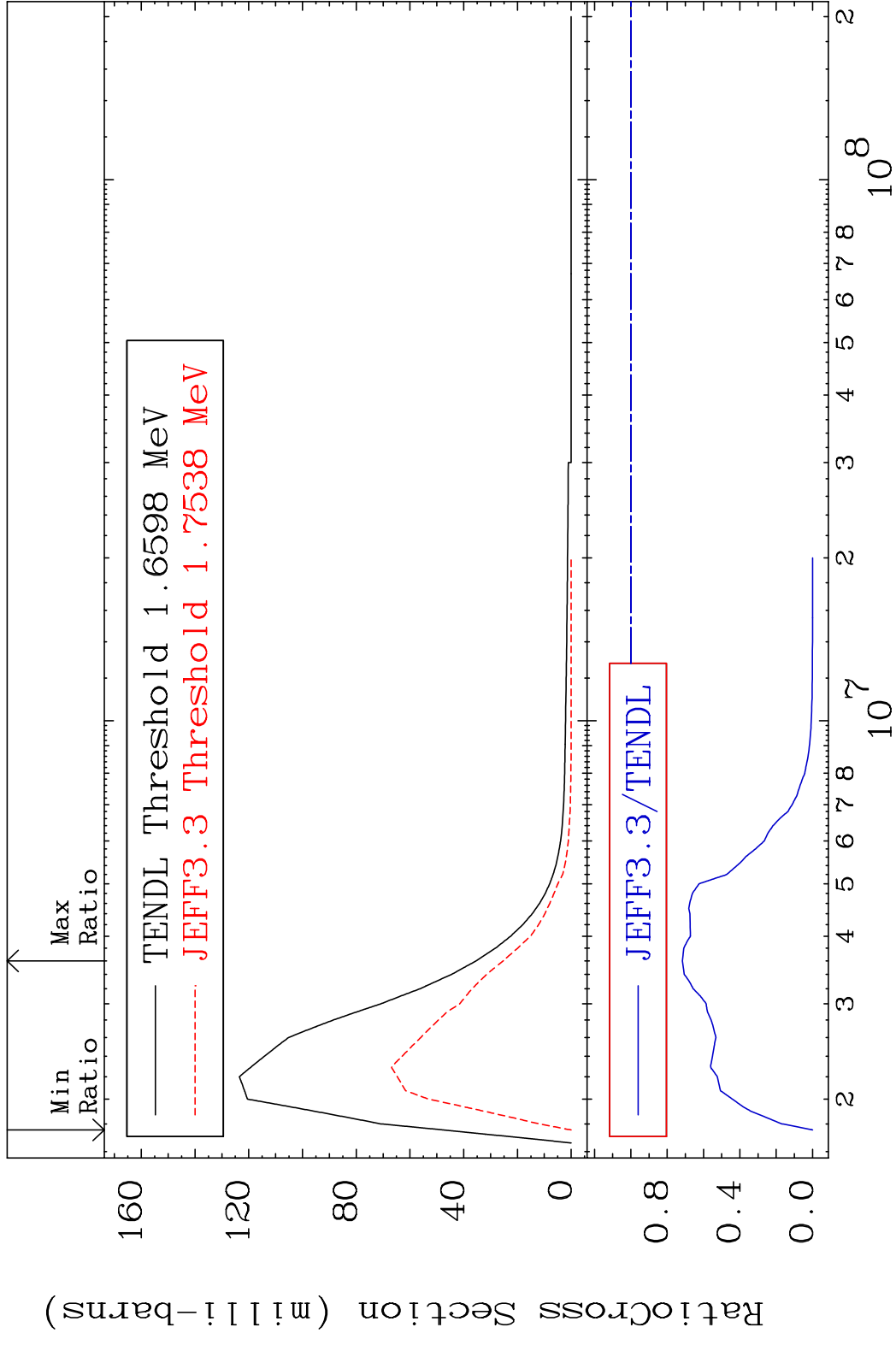


MAT 4034 MT= 61 (n,n') Level 40-Zr-93
 Cross Section -100.0 To -37.21%

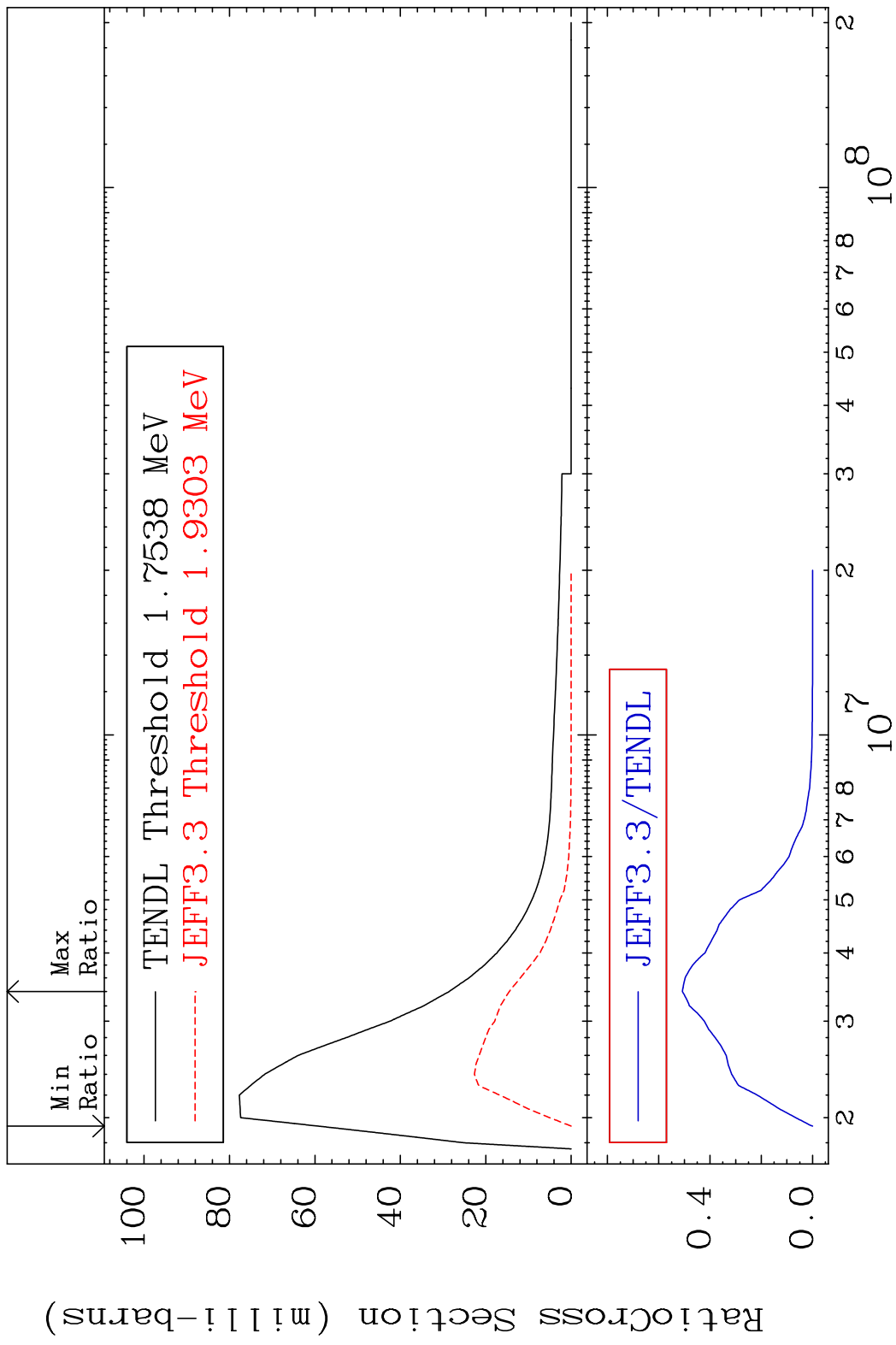


21 Incident Energy (eV) 40-Zr-93

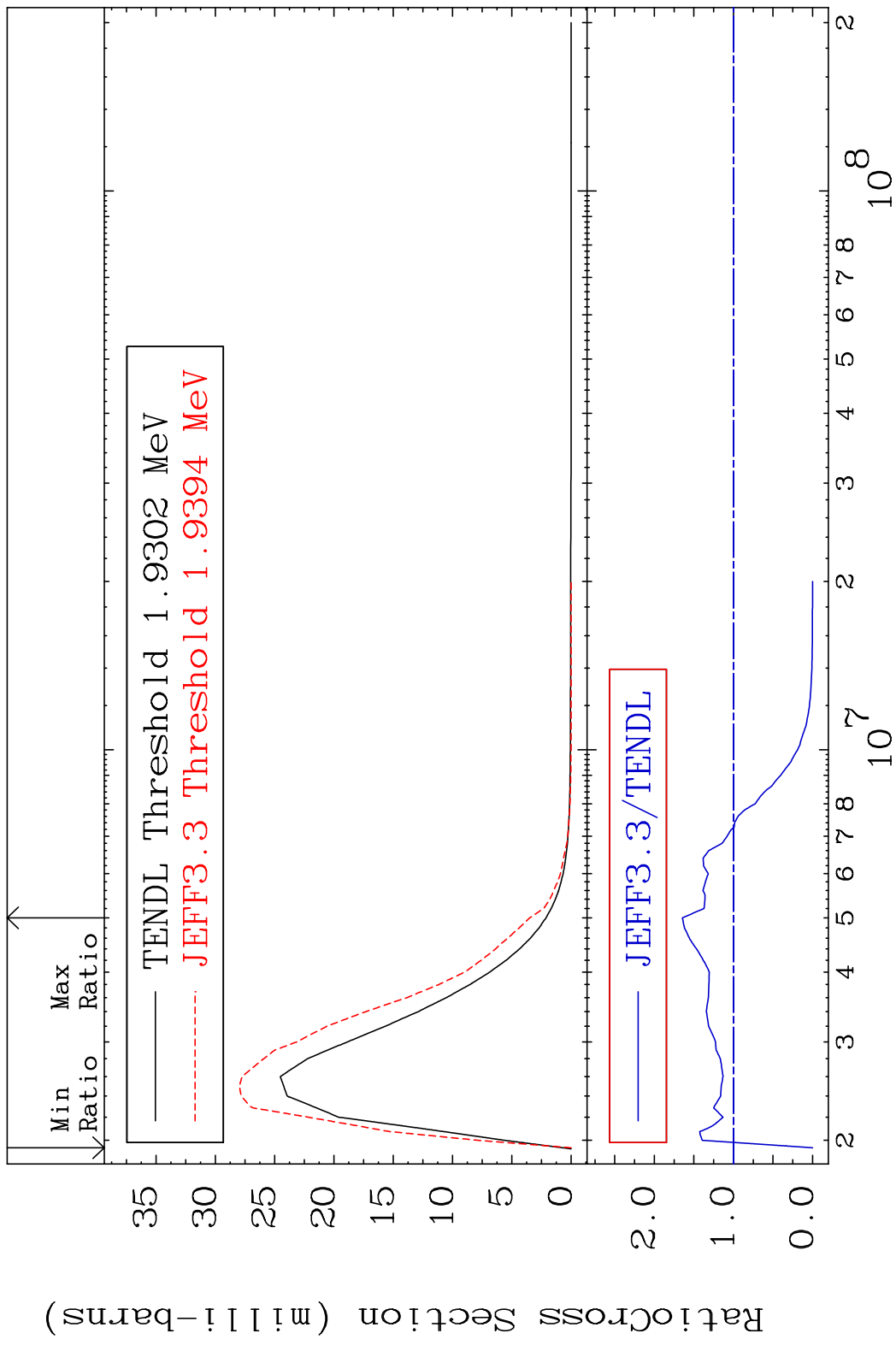
MAT 4034 MT= 62 (n, n') Level 40-Zr-93
 Cross Section -100.0 To -28.35%



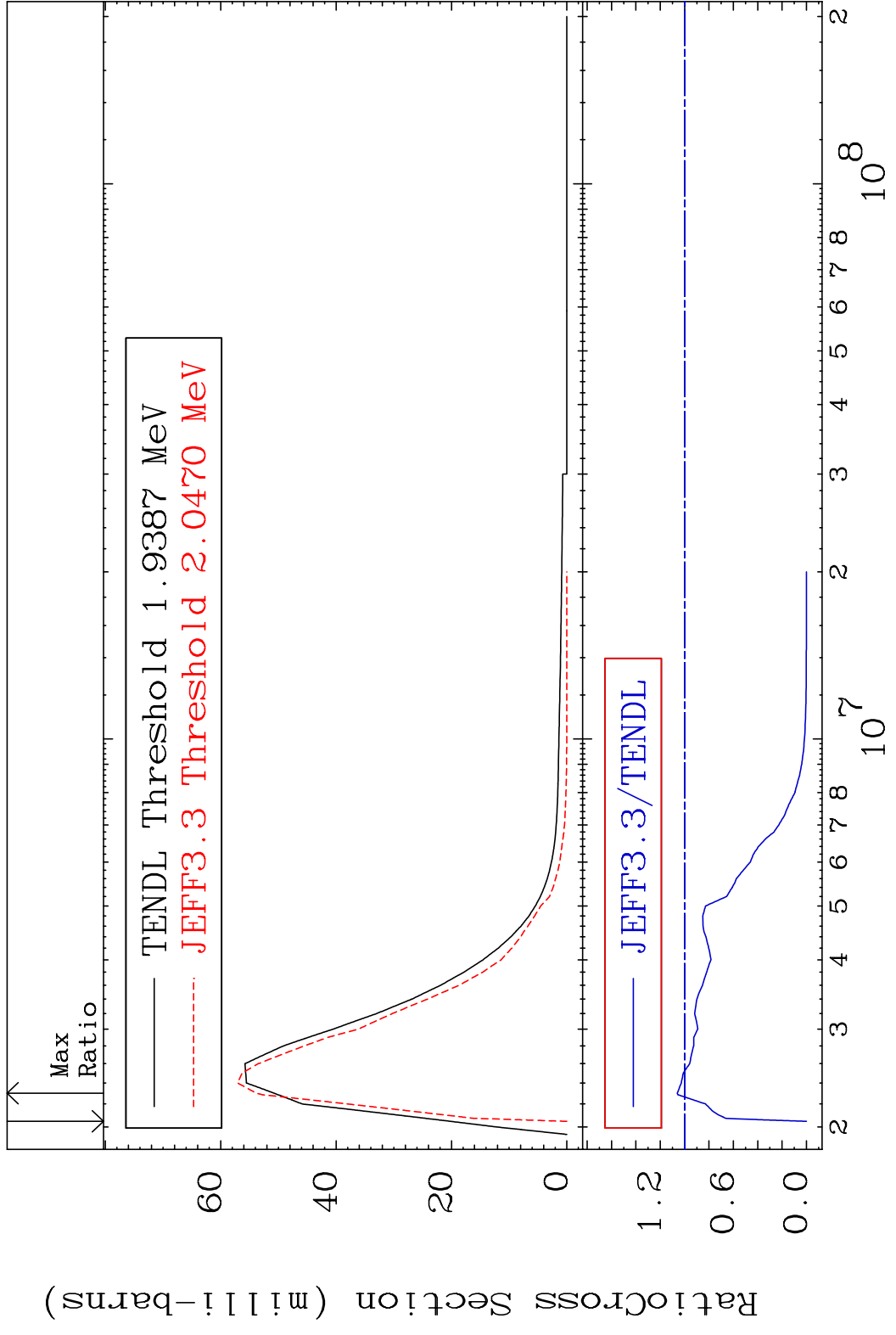
MAT 4034 MT= 63 (n, n') Level 40-Zr-93
 Cross Section -100.0 To -49.21%



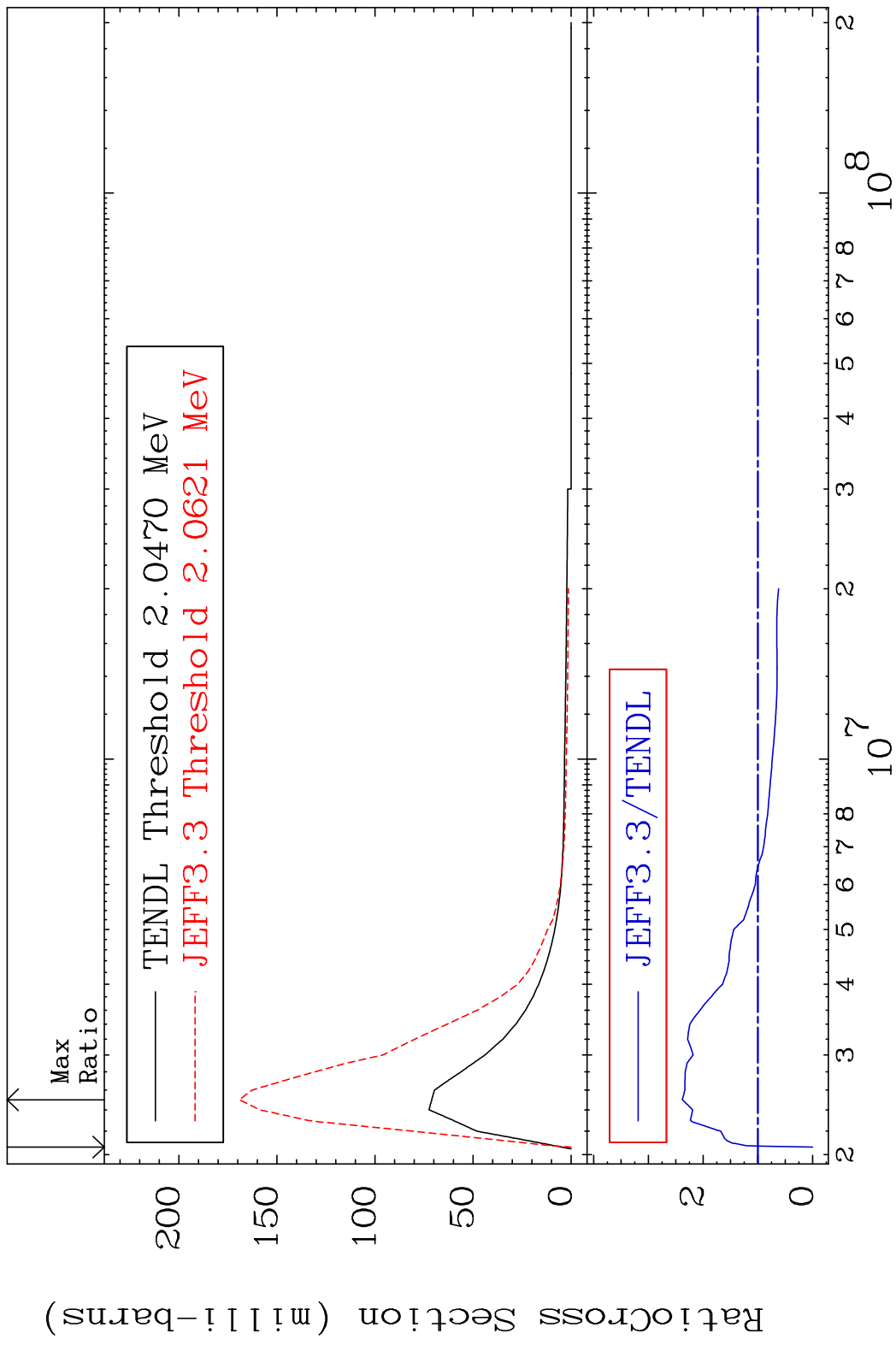
MAT 4034 MT= 64 (n, n') Level 40-Zr-93
 Cross Section -100.0 To 64.54 %



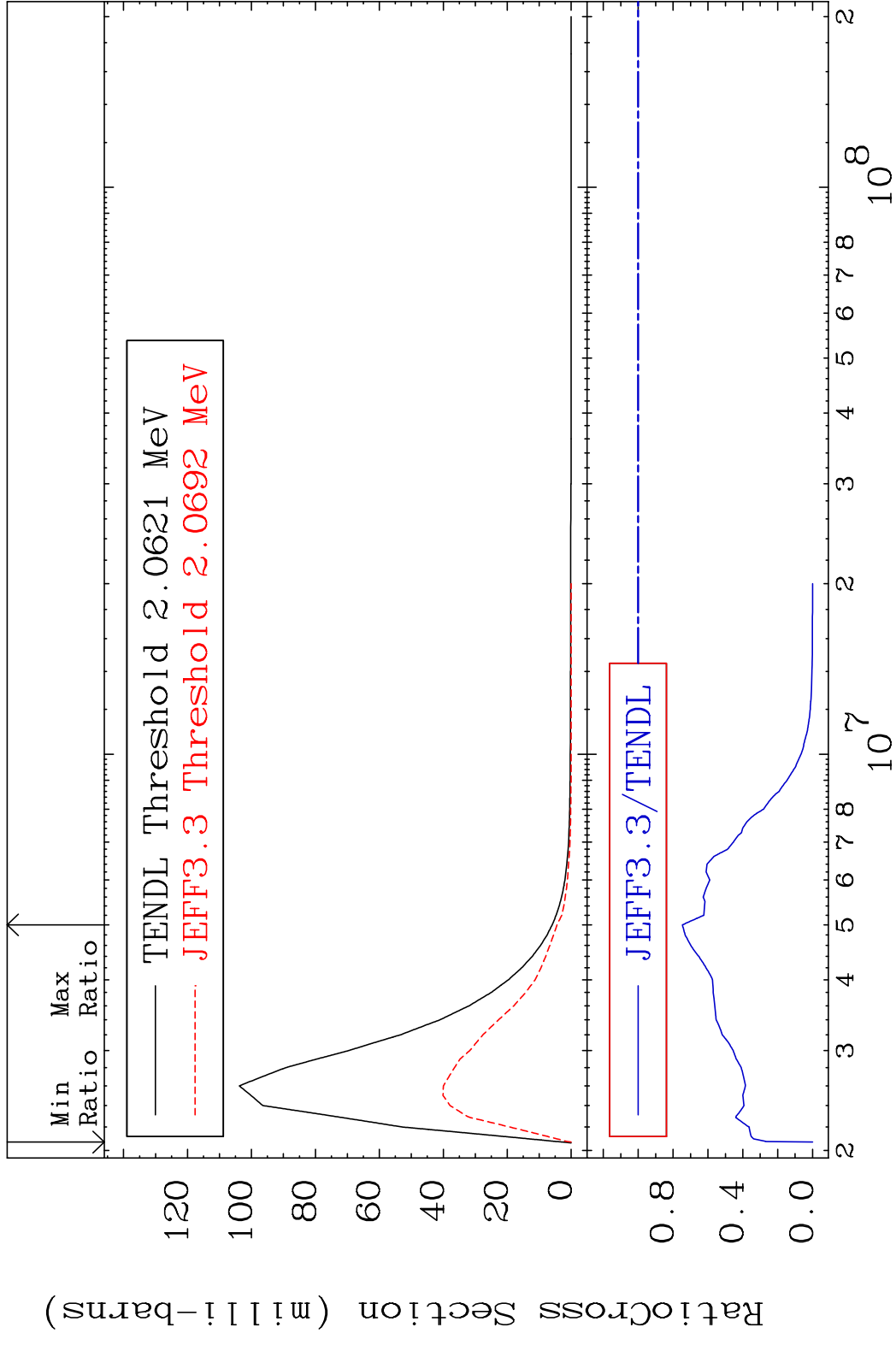
MAT 4034 MT= 65 (n, n') Level 40-Zr-93
 Cross Section -100.0 To 6.107 %



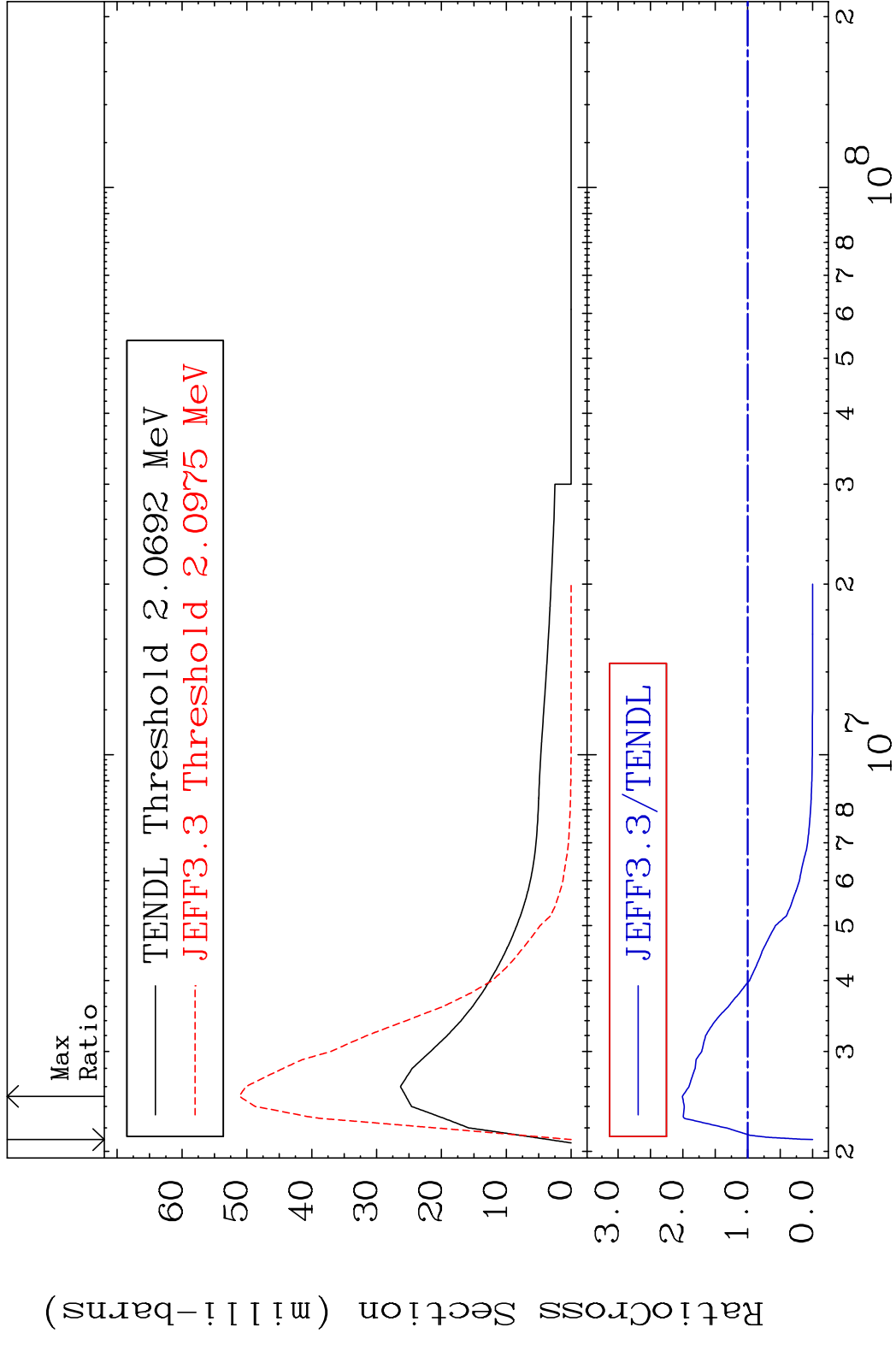
MAT 4034 MT= 66 (n, n') Level 40-Zr-93
 Cross Section -100.0 To 138.0 %



MAT 4034 MT= 67 (n,n') Level 40-Zr-93
 Cross Section -100.0 To -25.32%



MAT 4034 MT= 68 (n, n') Level 40-Zr-93
 Cross Section -100.0 To 100.8 %

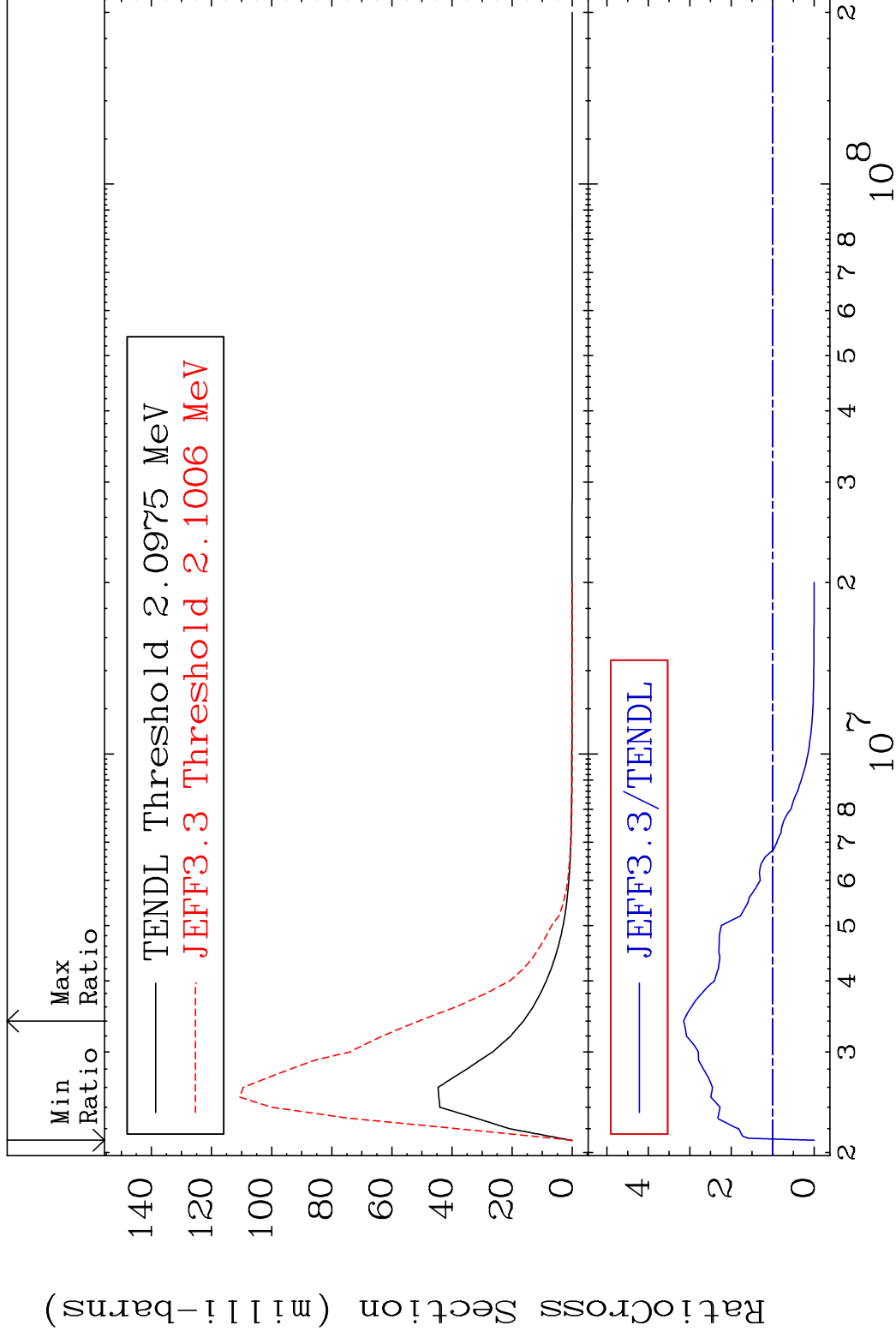


MAT 4034

MT= 69 (n, n') Level

40-Zr-93

Cross Section -100.0 To 214.9 %

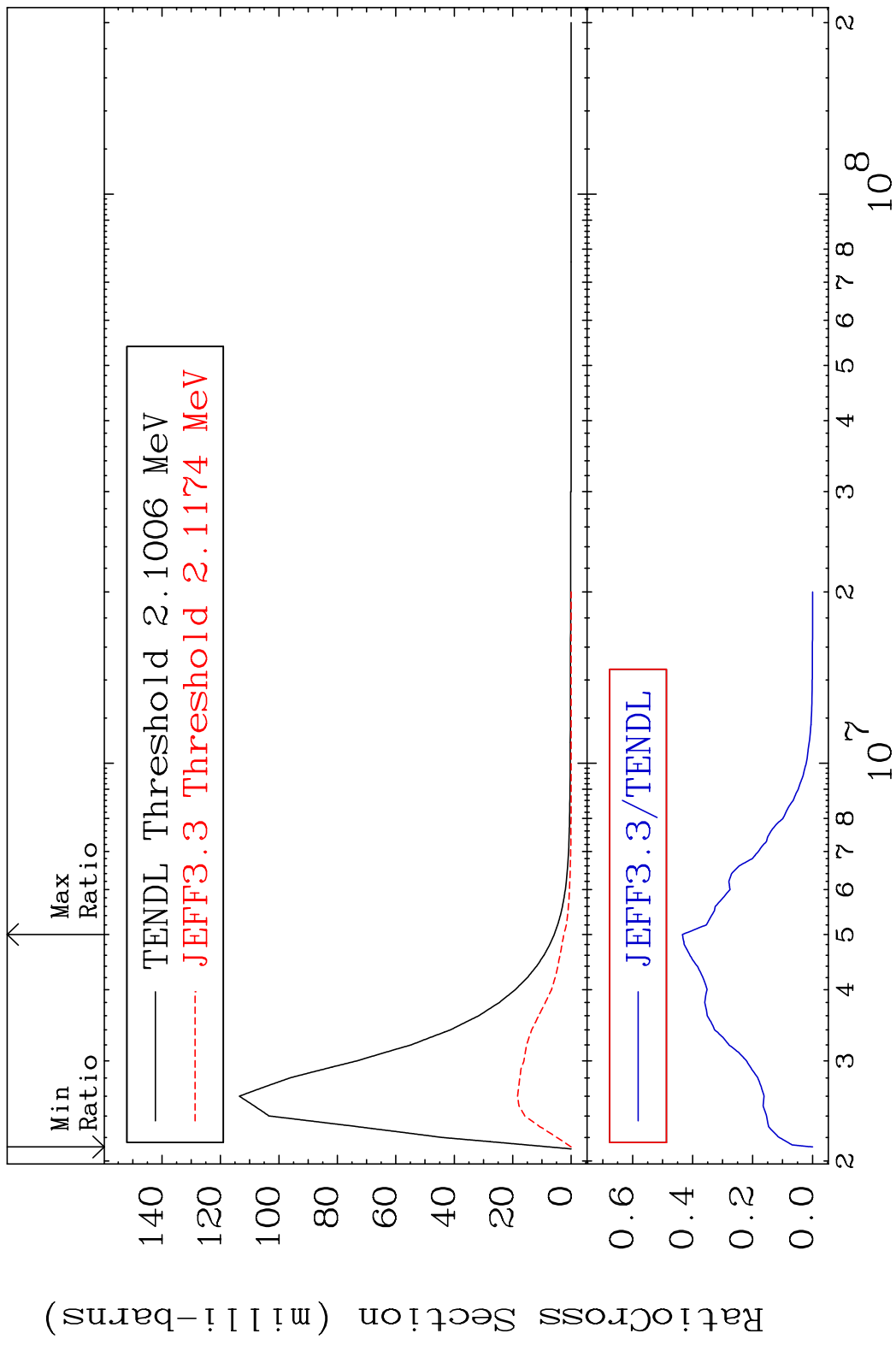


29

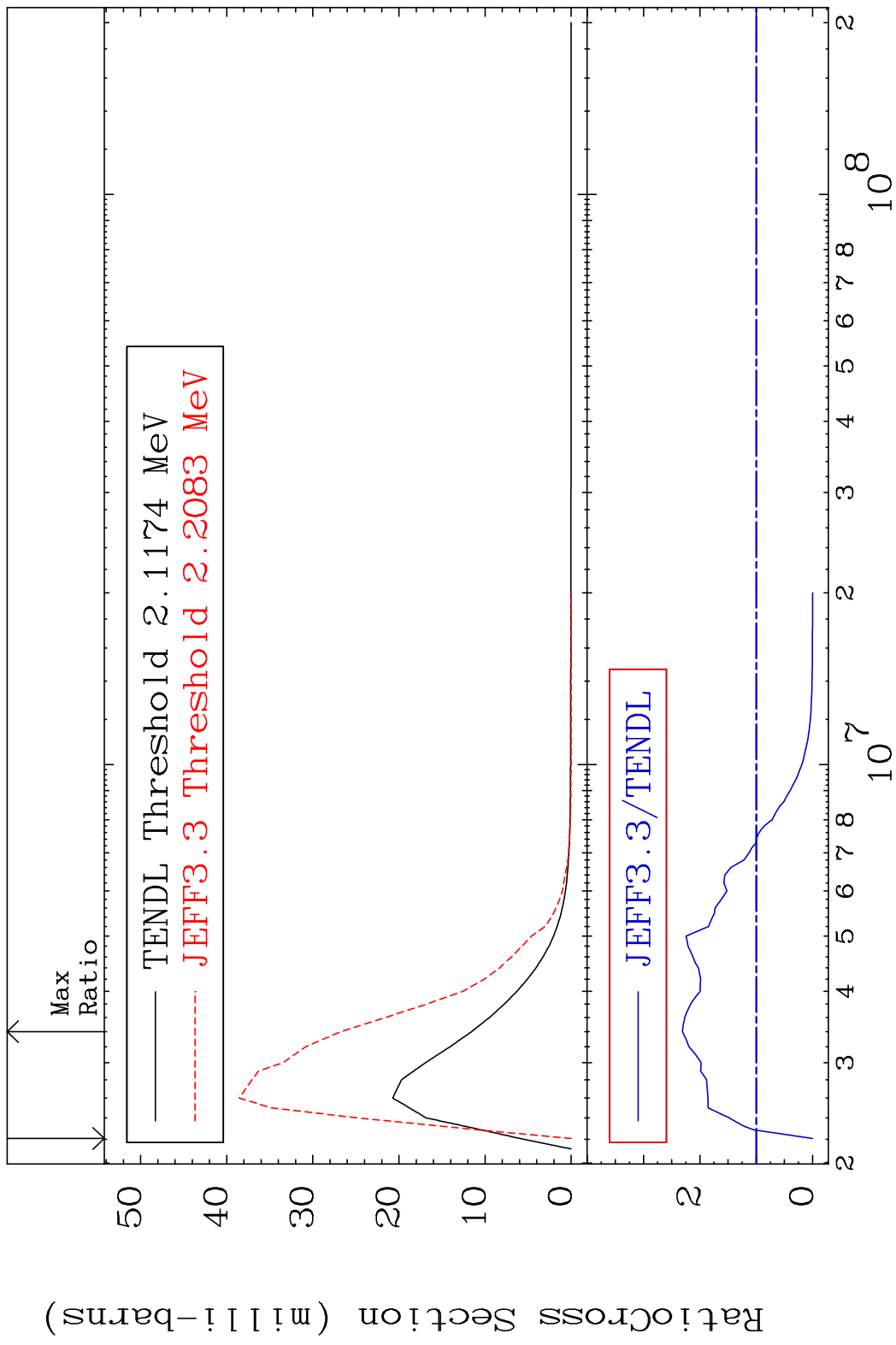
Incident Energy (eV)

40-Zr-93

MAT 4034 MT= 70 (n, n') Level 40-Zr-93
 Cross Section -100.0 To -56.57%

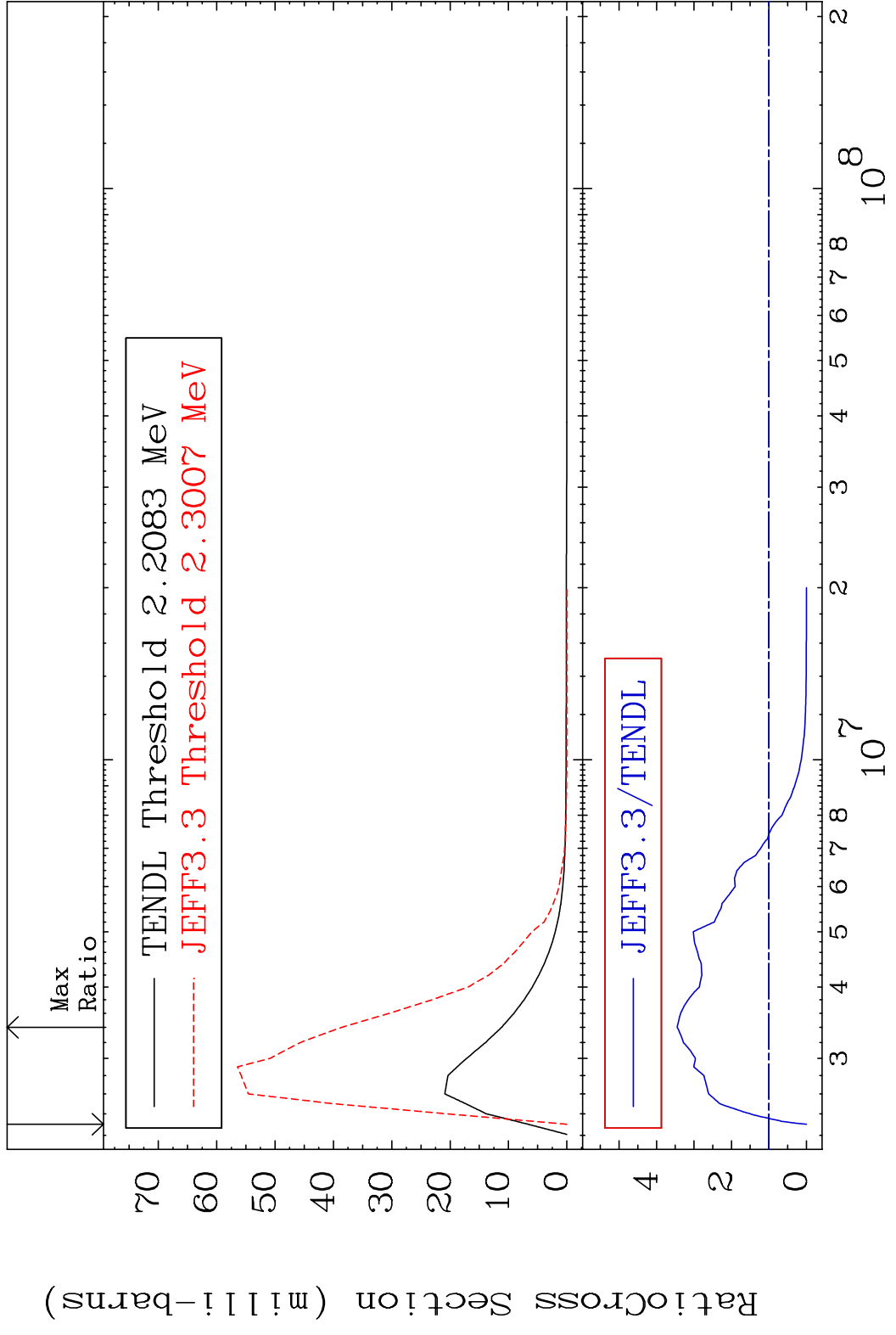


MAT 4034 MT= 71 (n, n') Level 40-Zr-93
 Cross Section -100.0 To 131.1 %



31 Incident Energy (eV) 40-Zr-93

MAT 4034 MT= 72 (n, n') Level 40-Zr-93
 Cross Section -100.0 To 244.9 %

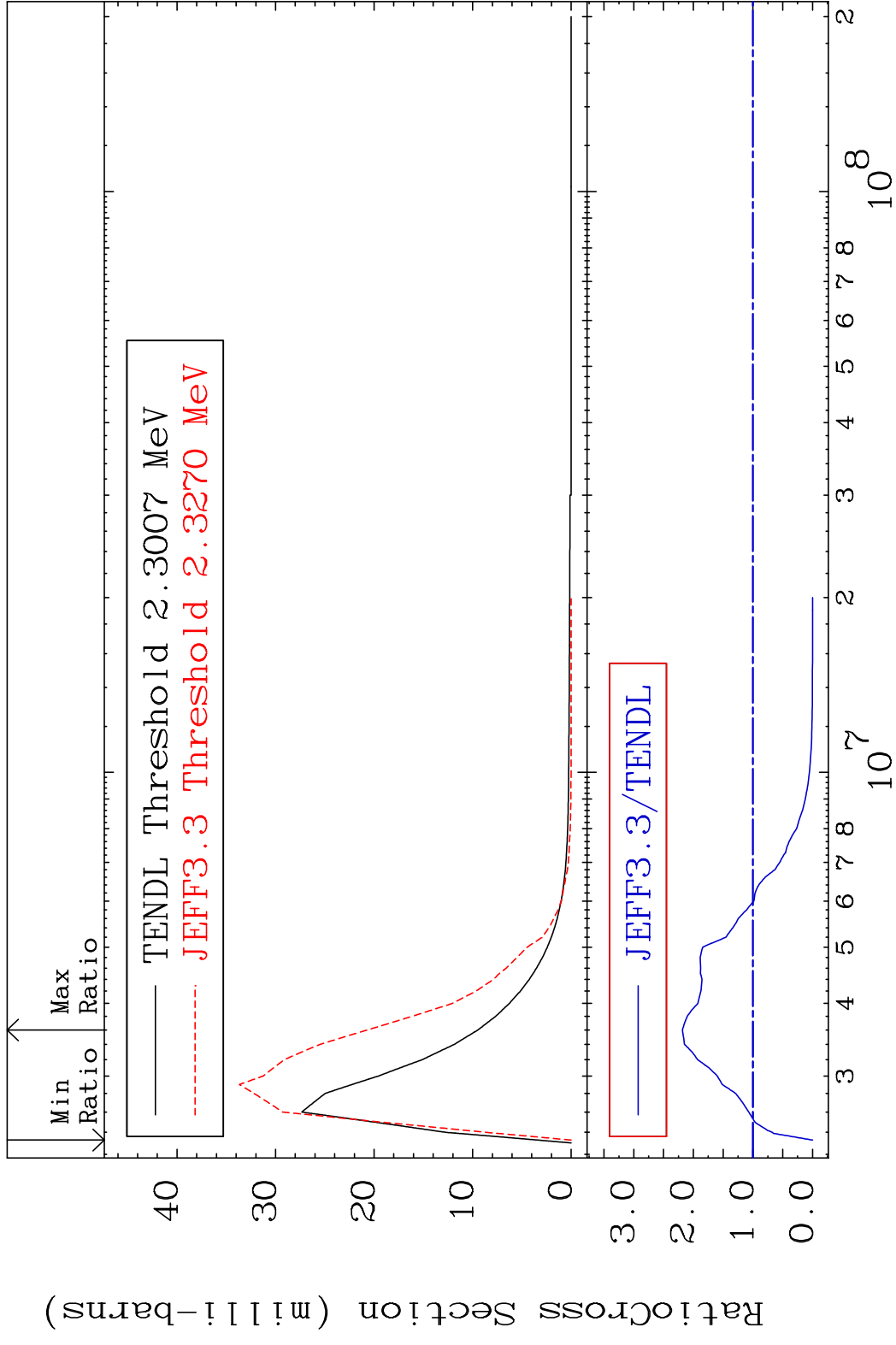


MAT 4034

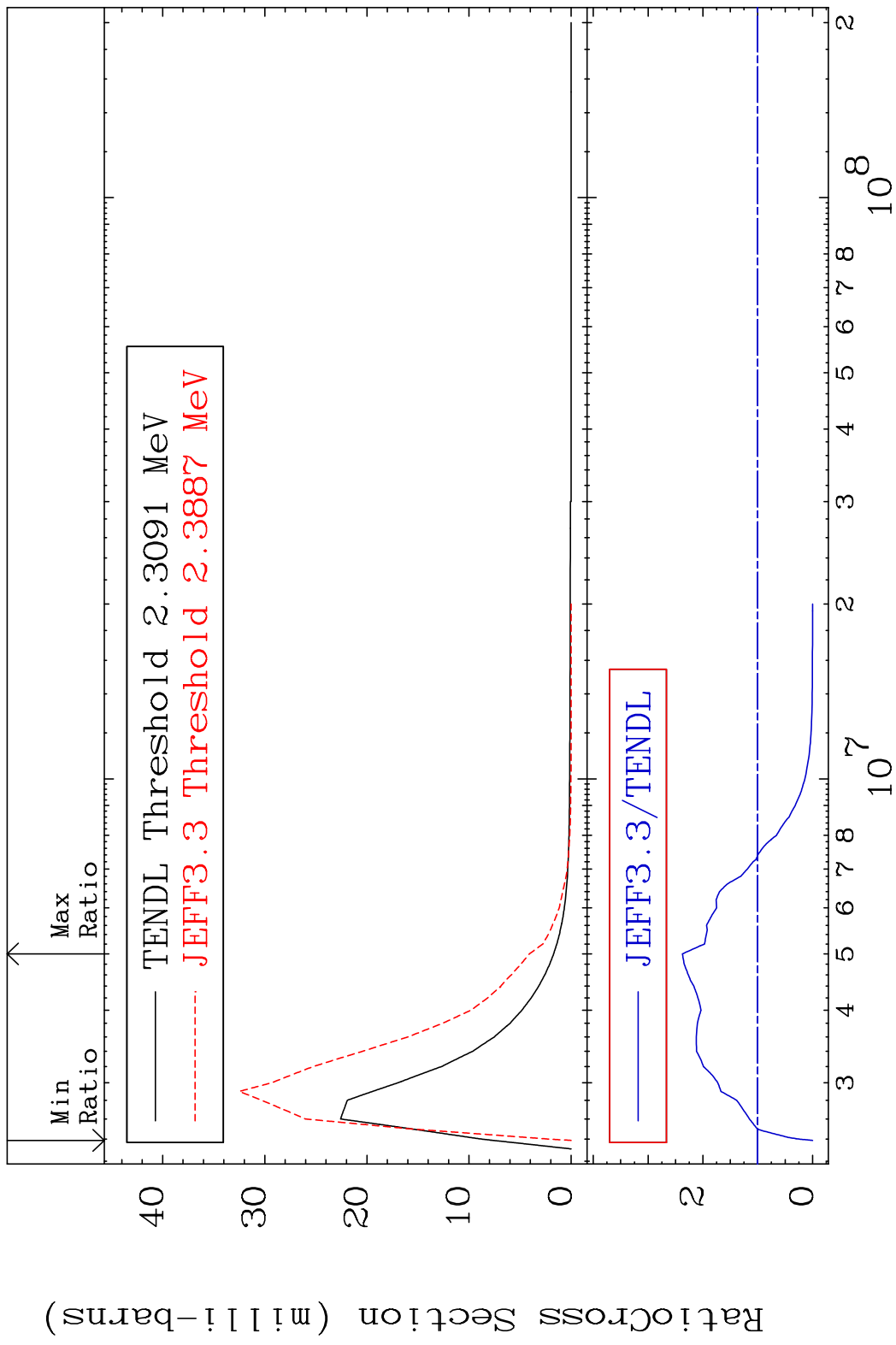
MT= 73 (n, n') Level

40-Zr-93

Cross Section -100.0 To 118.5 %

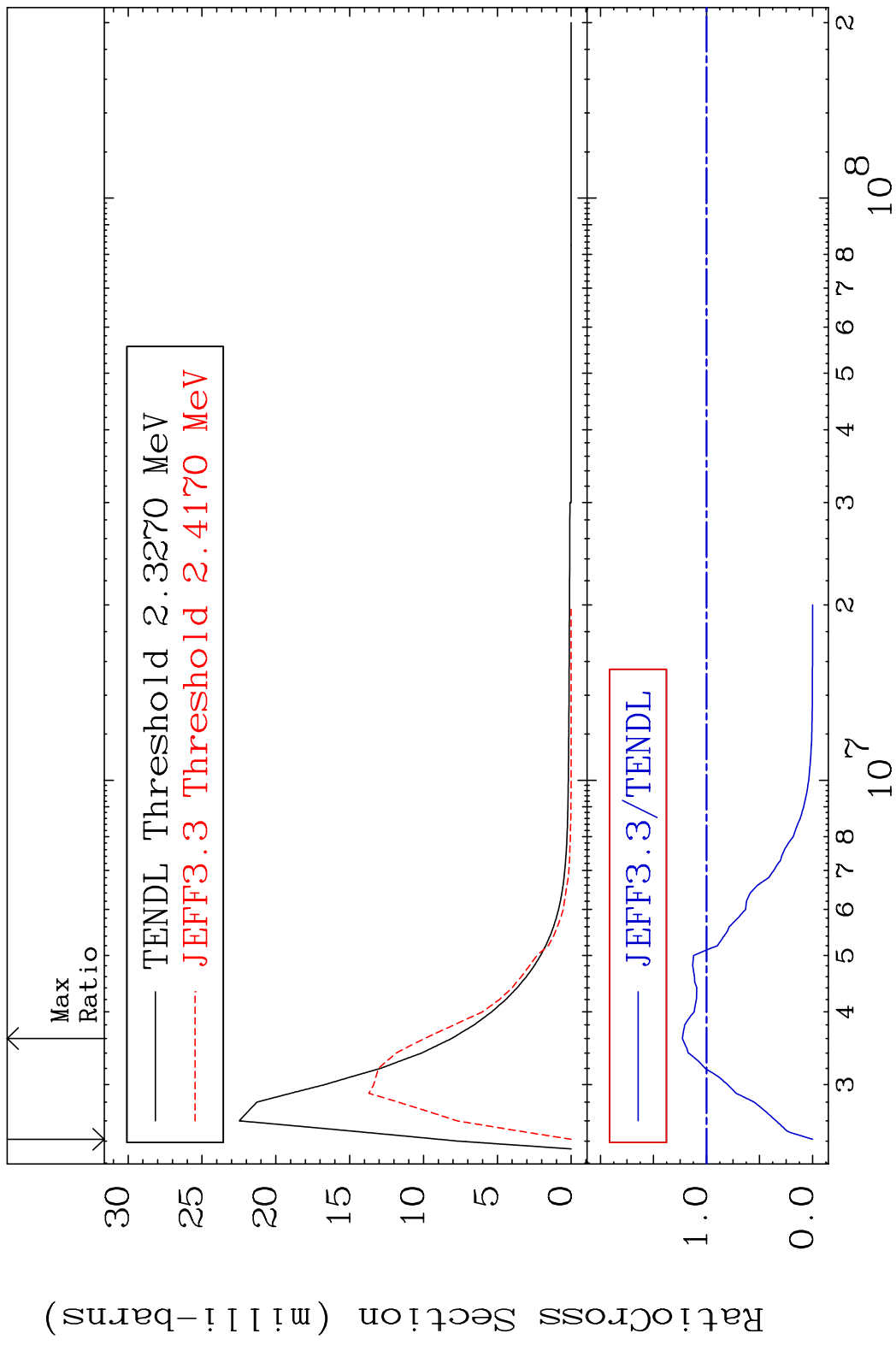


MAT 4034 MT= 74 (n, n') Level 40-Zr-93
 Cross Section -100.0 To 137.5 %



34 Incident Energy (eV) 40-Zr-93

MAT 4034 MT= 75 (n,n') Level 40-Zr-93
 Cross Section -100.0 To 22.78 %

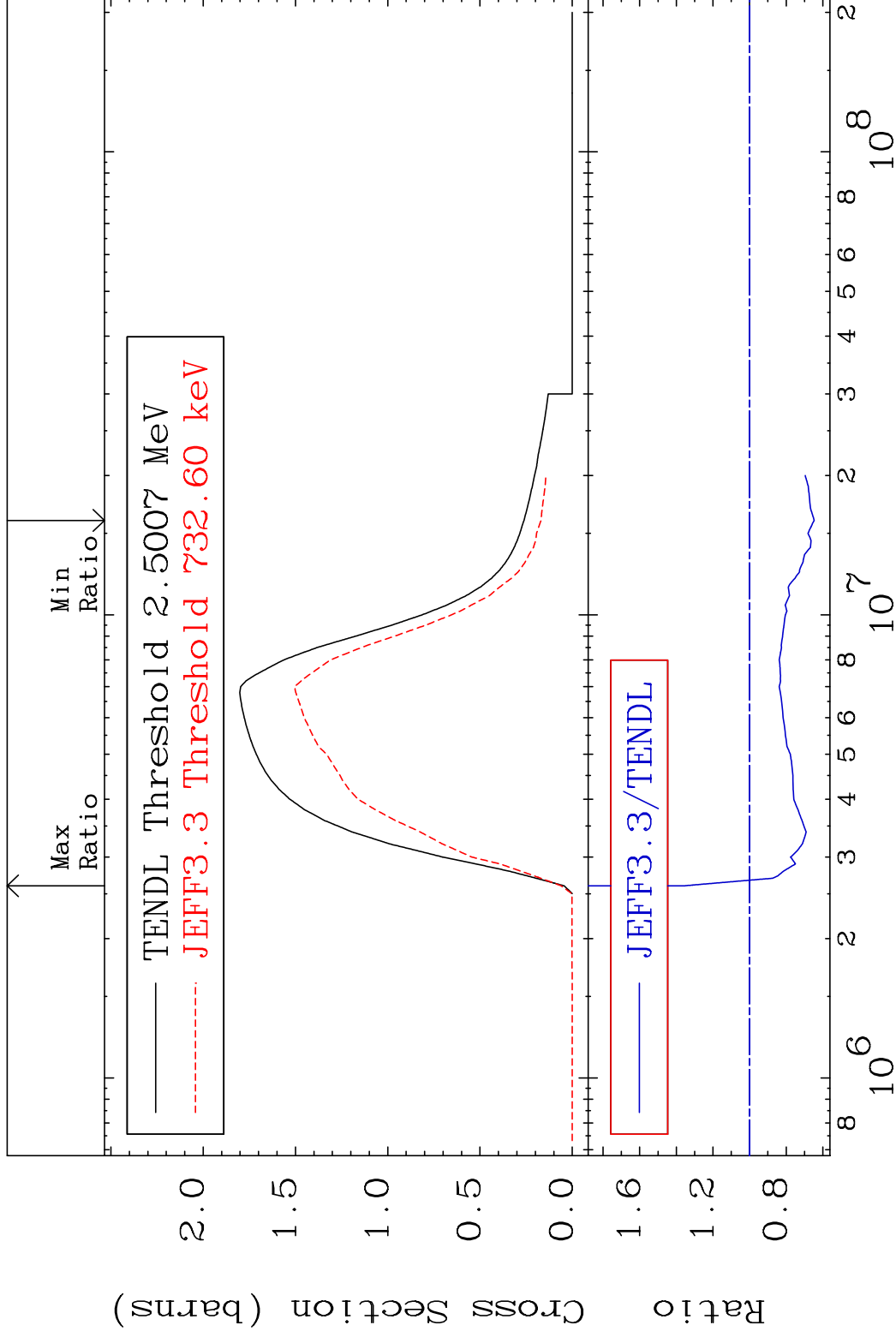


MAT 4034

(n,n') Continuum

40-Zr-93

Cross Section -35.24 To 35.99 %



36

Incident Energy (eV)

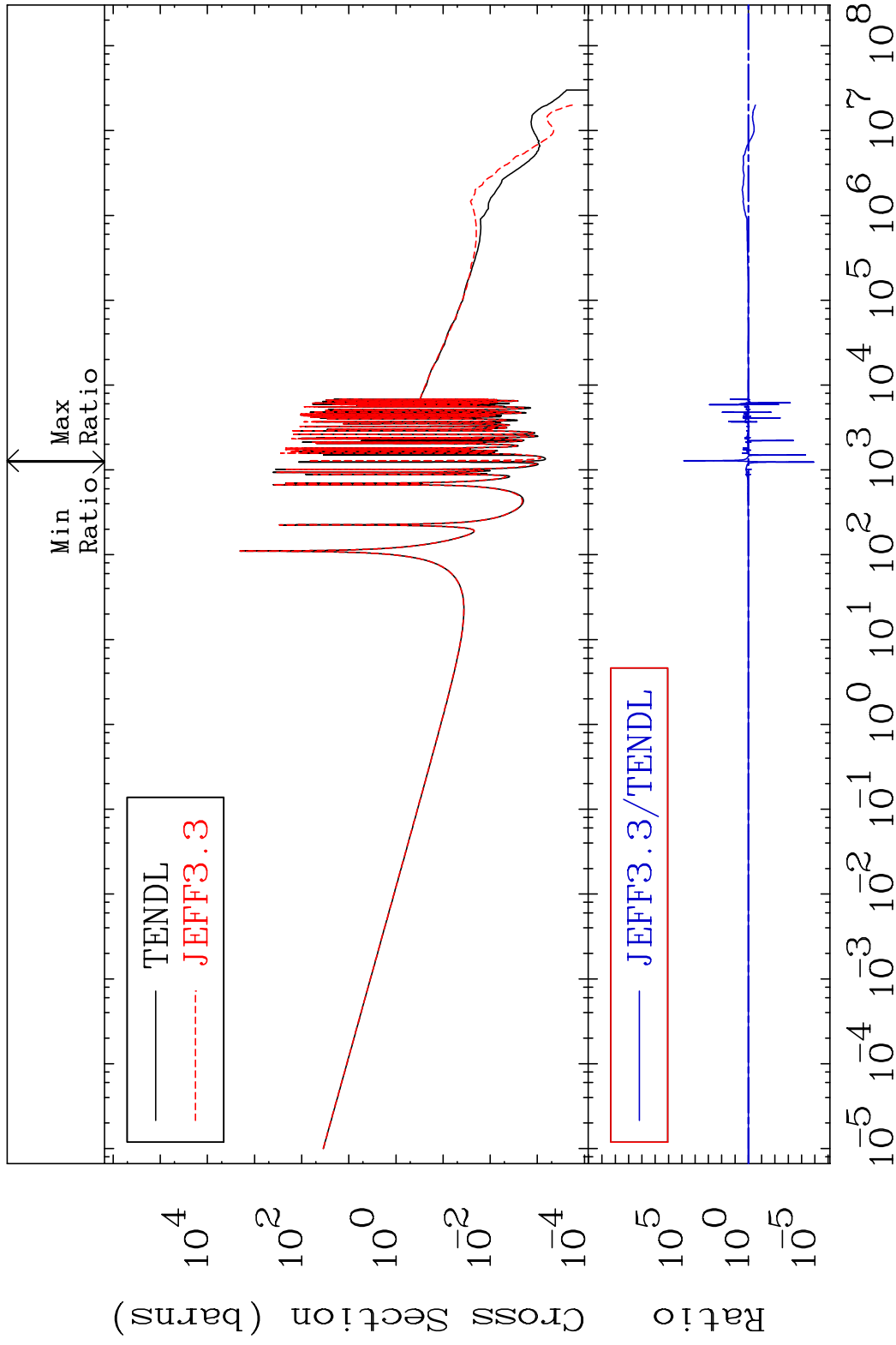
40-Zr-93

MAT 4034

(n, γ)

40-Zr-93

Cross Section -100.0 To 9999. %



37

Incident Energy (eV)

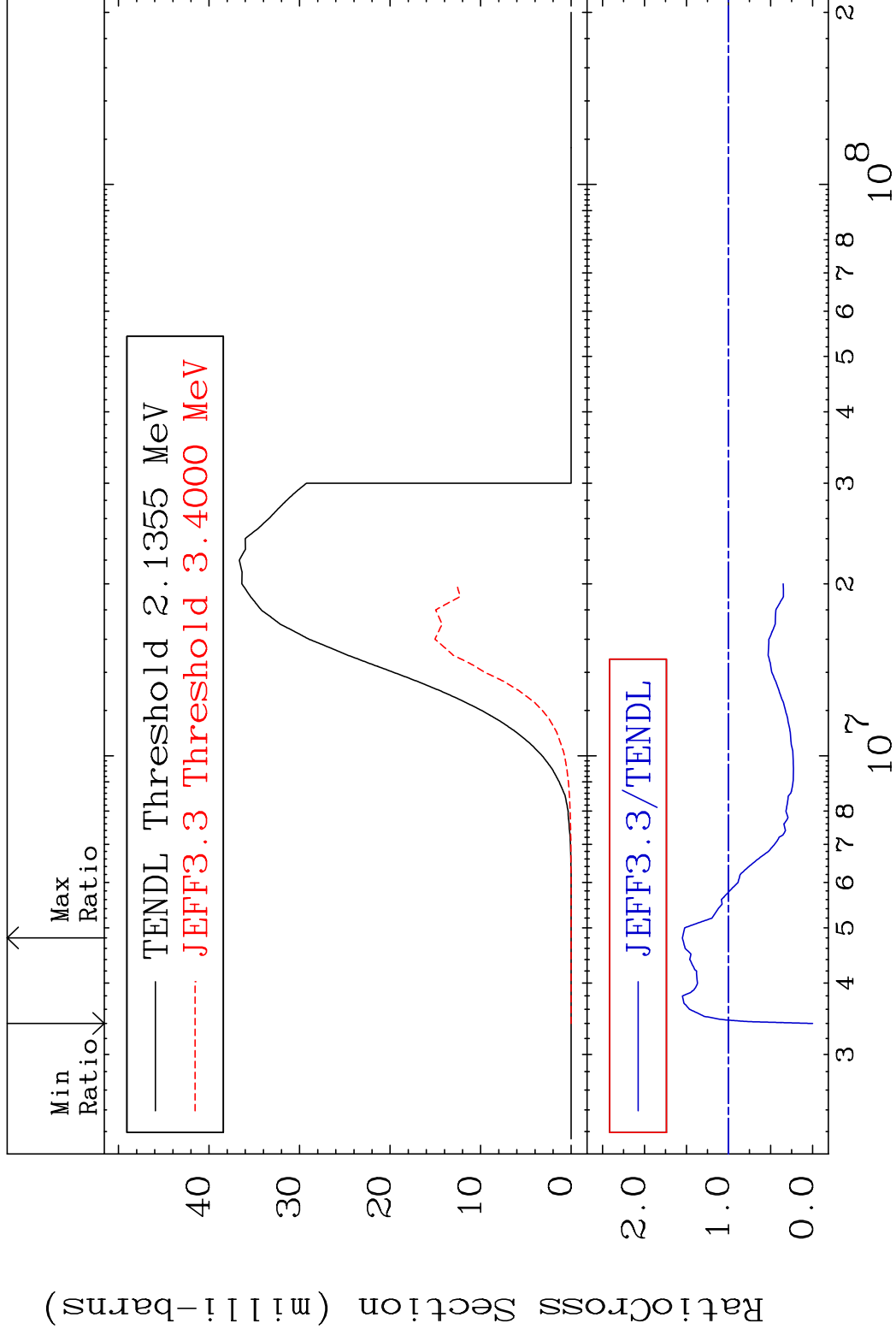
40-Zr-93

MAT 4034

(n, p)

40-Zr-93

Cross Section -100.0 To 54.93 %



38

Incident Energy (eV)

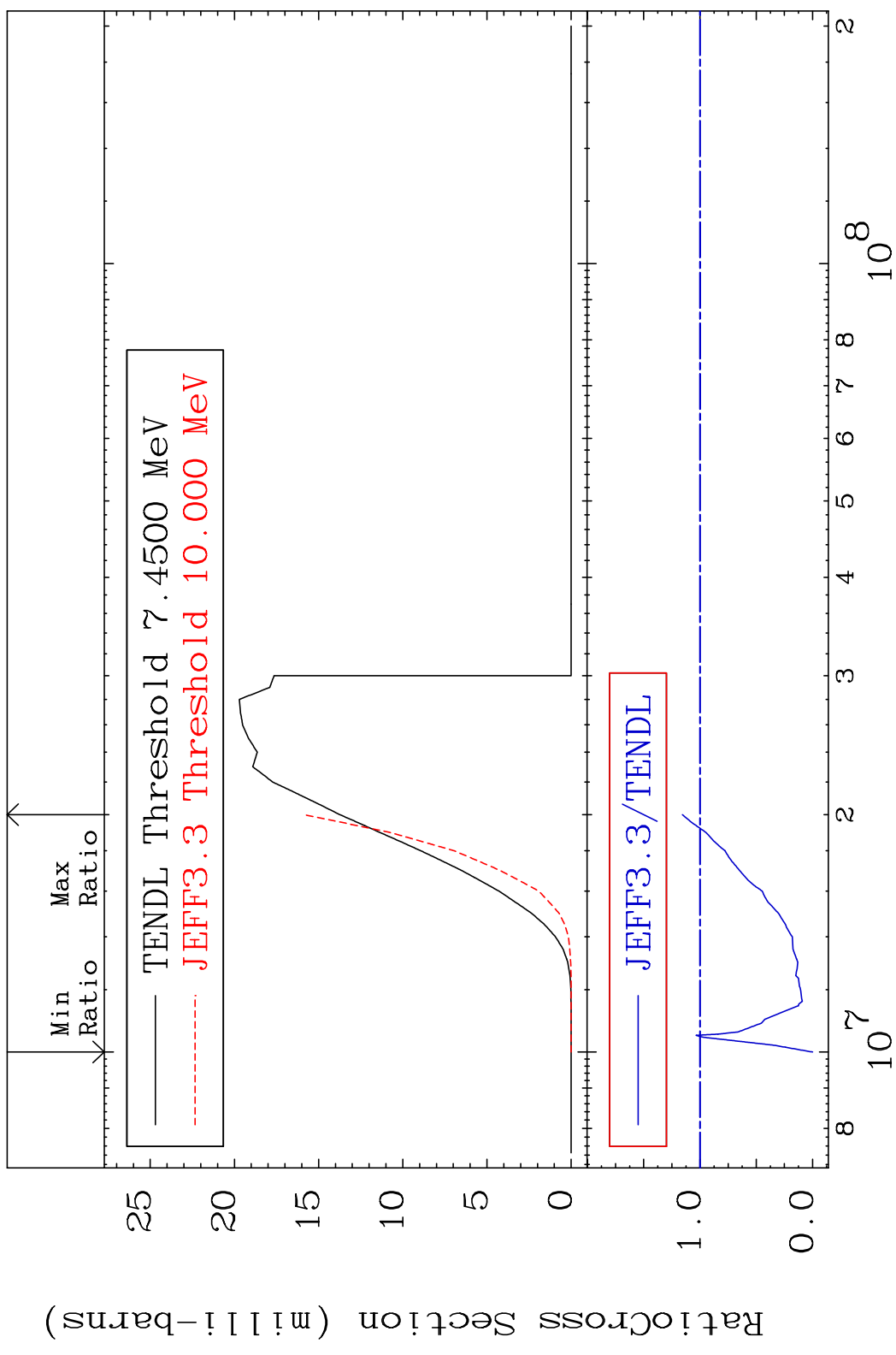
40-Zr-93

MAT 4034

(n, d)

40-Zr-93

Cross Section -100.0 To 15.68 %

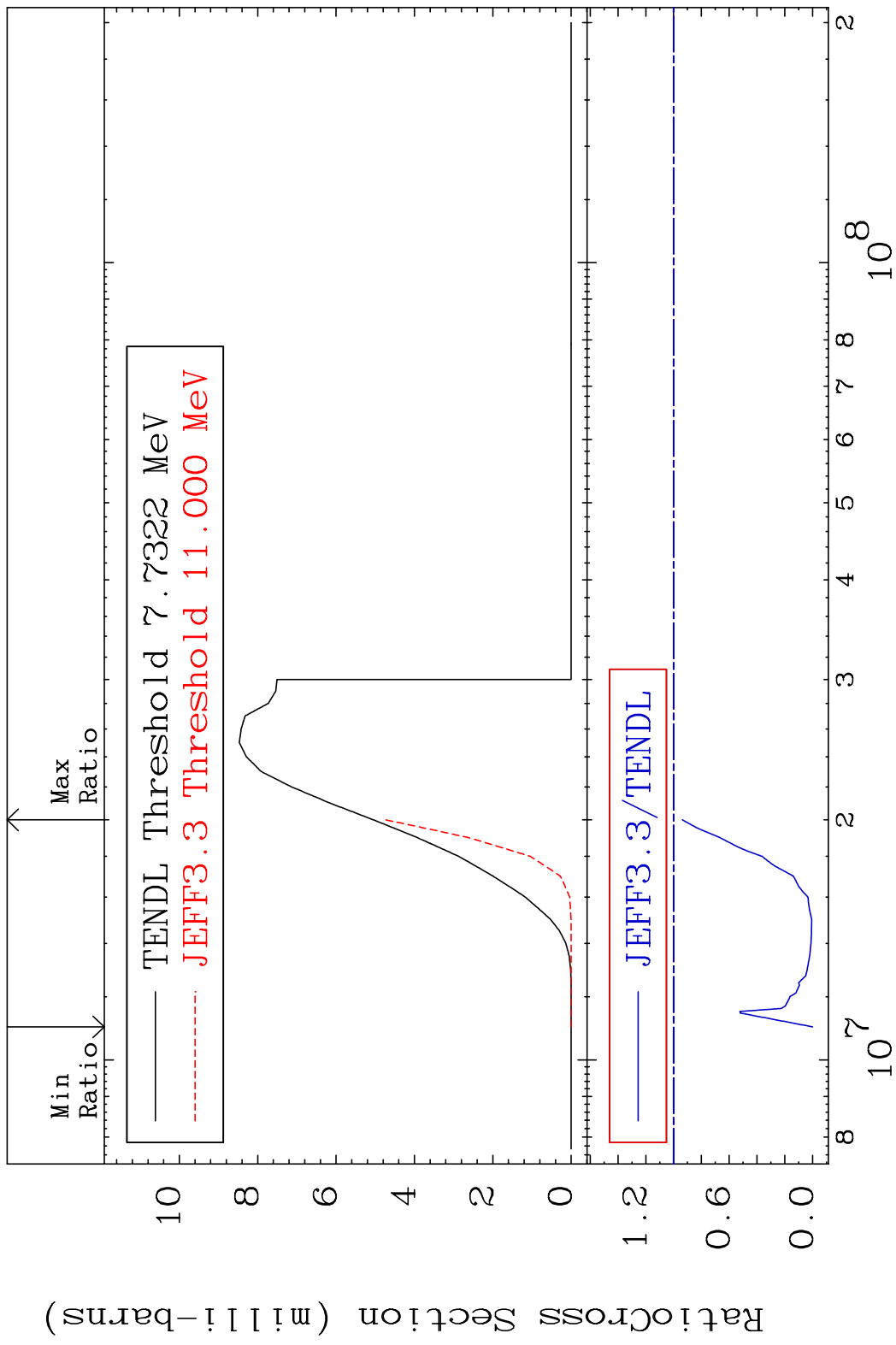


MAT 4034

(n, t)

40-Zr-93

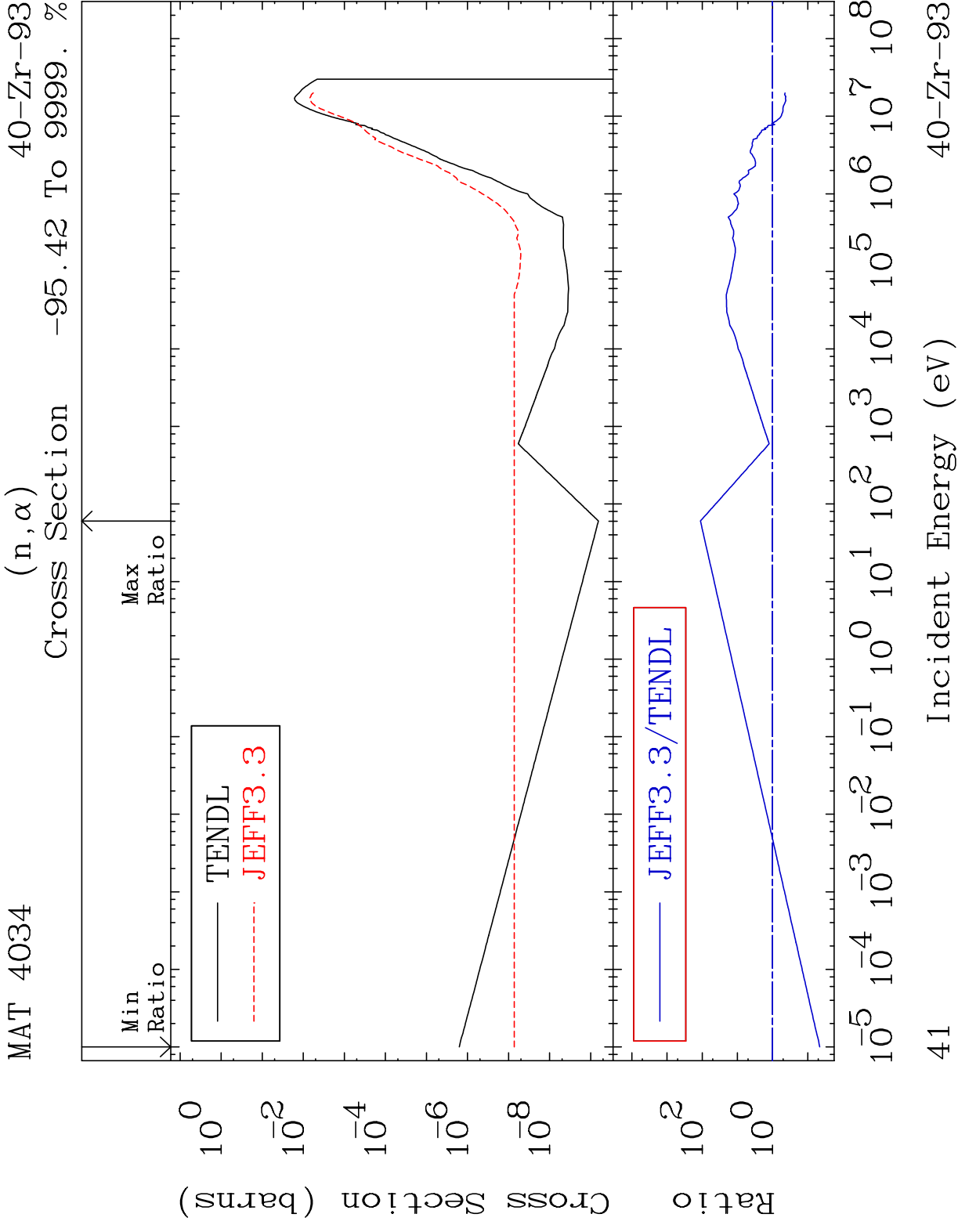
Cross Section -100.0 To -6.298%



40

Incident Energy (eV)

40-Zr-93

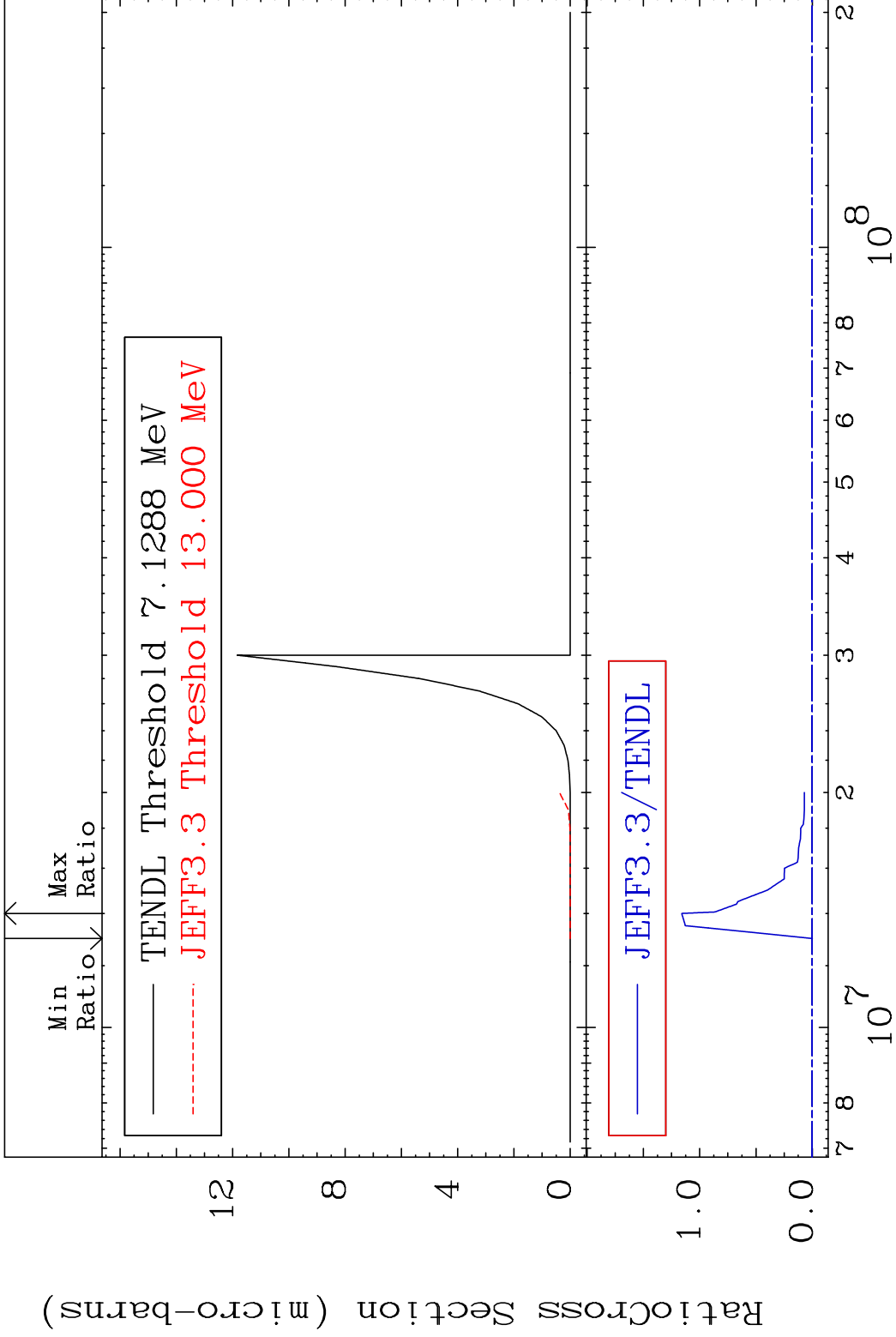


MAT 4034

(n,p) α

40-Zr-93

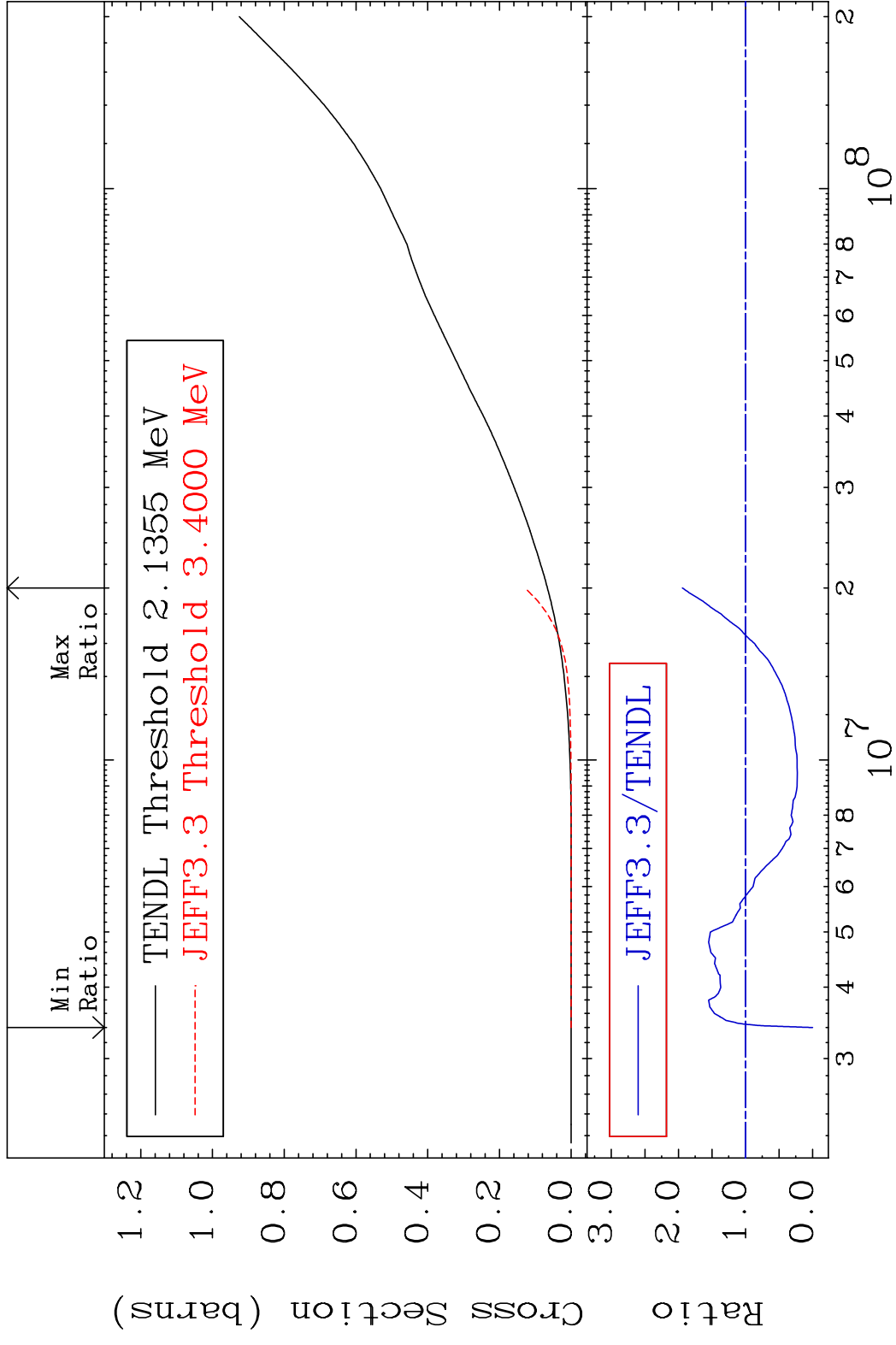
Cross Section -100.0 To 9999. %



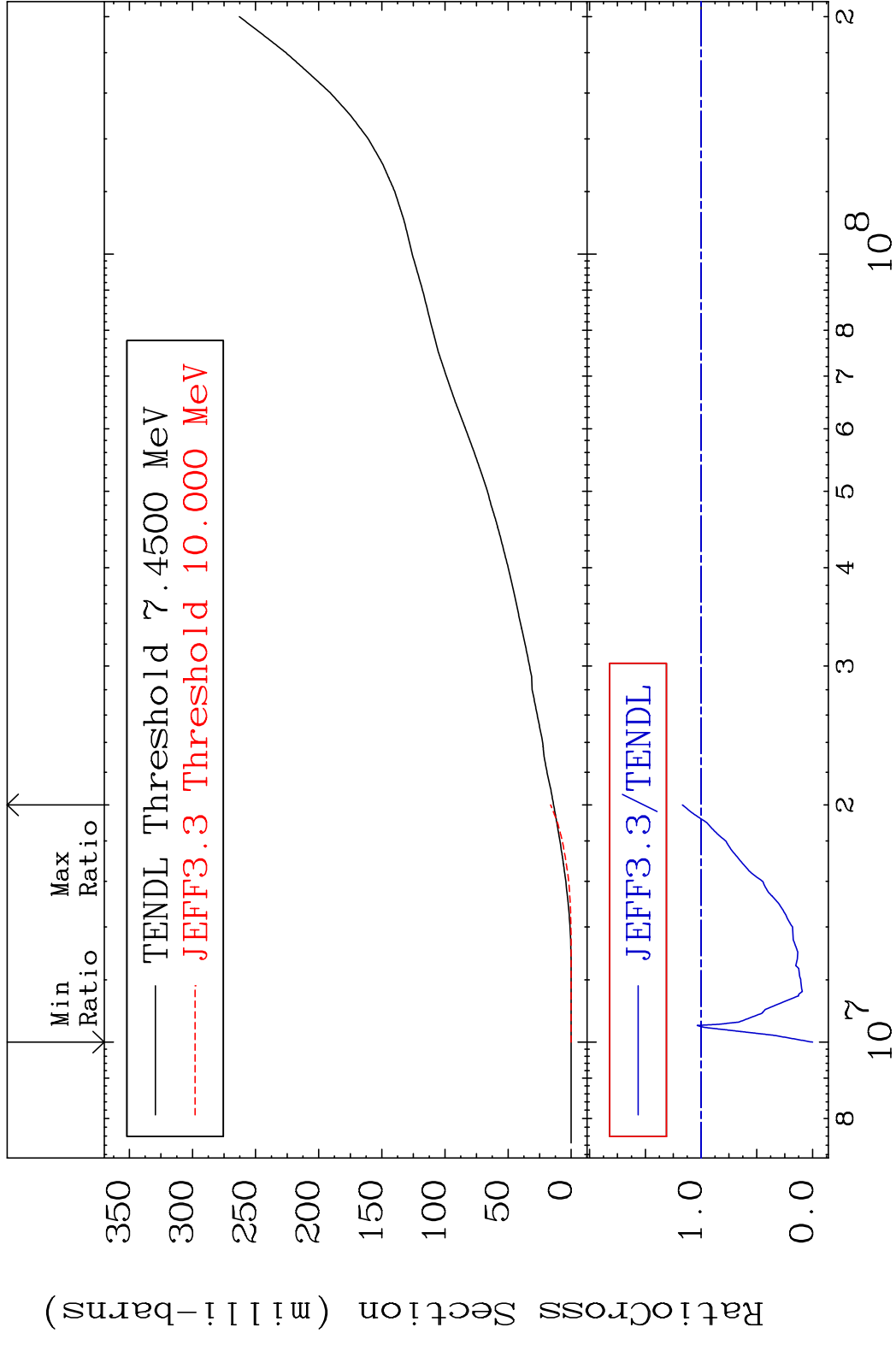
42

Incident Energy (eV)

40-Zr-93

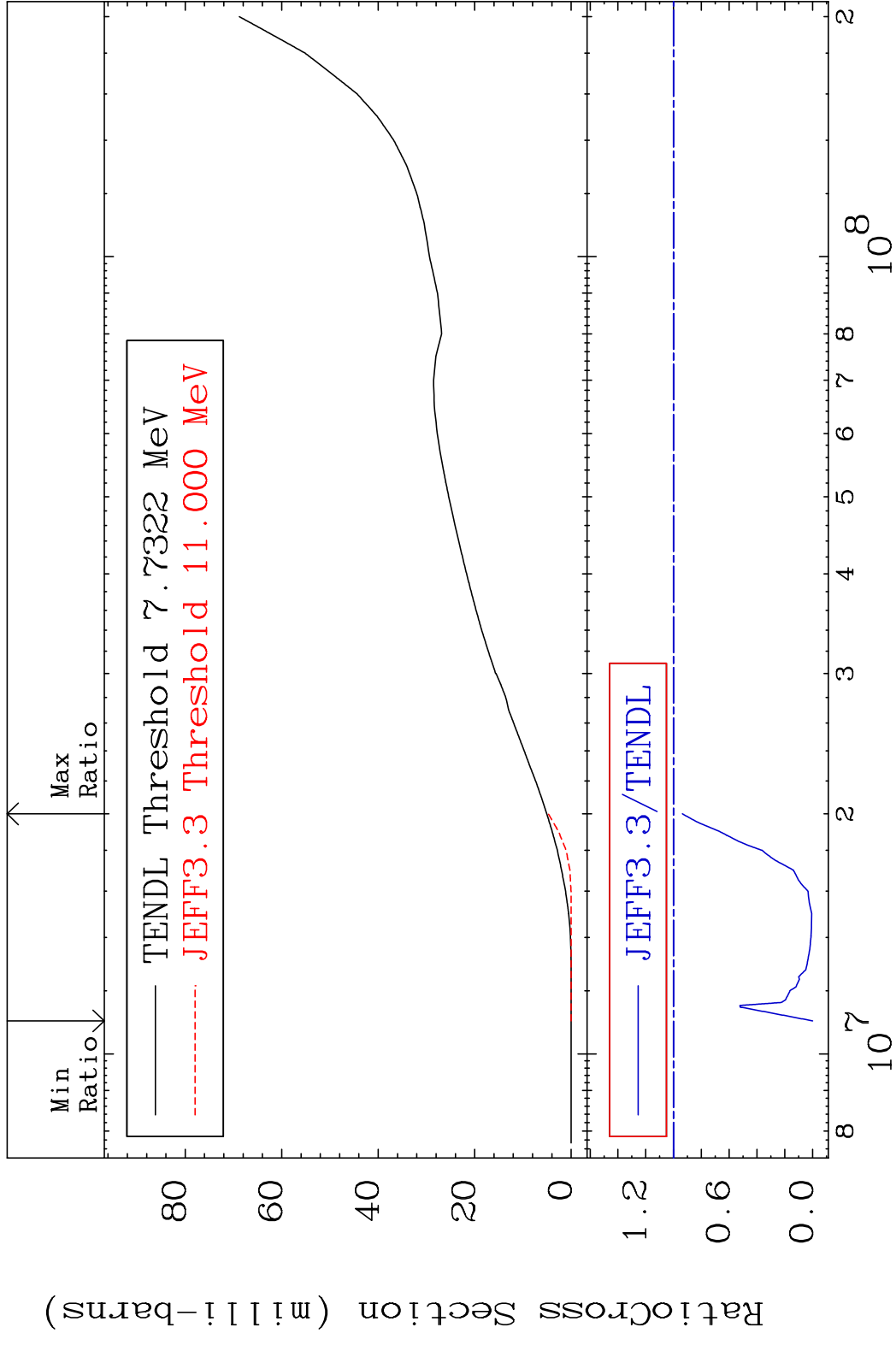


MAT 4034 Deuterium Production 40-Zr-93
 Cross Section -100.0 To 16.81 %



MAT 4034

Tritium Production 40-Zr-93
Cross Section -100.0 To -6.328%



45

Incident Energy (eV)

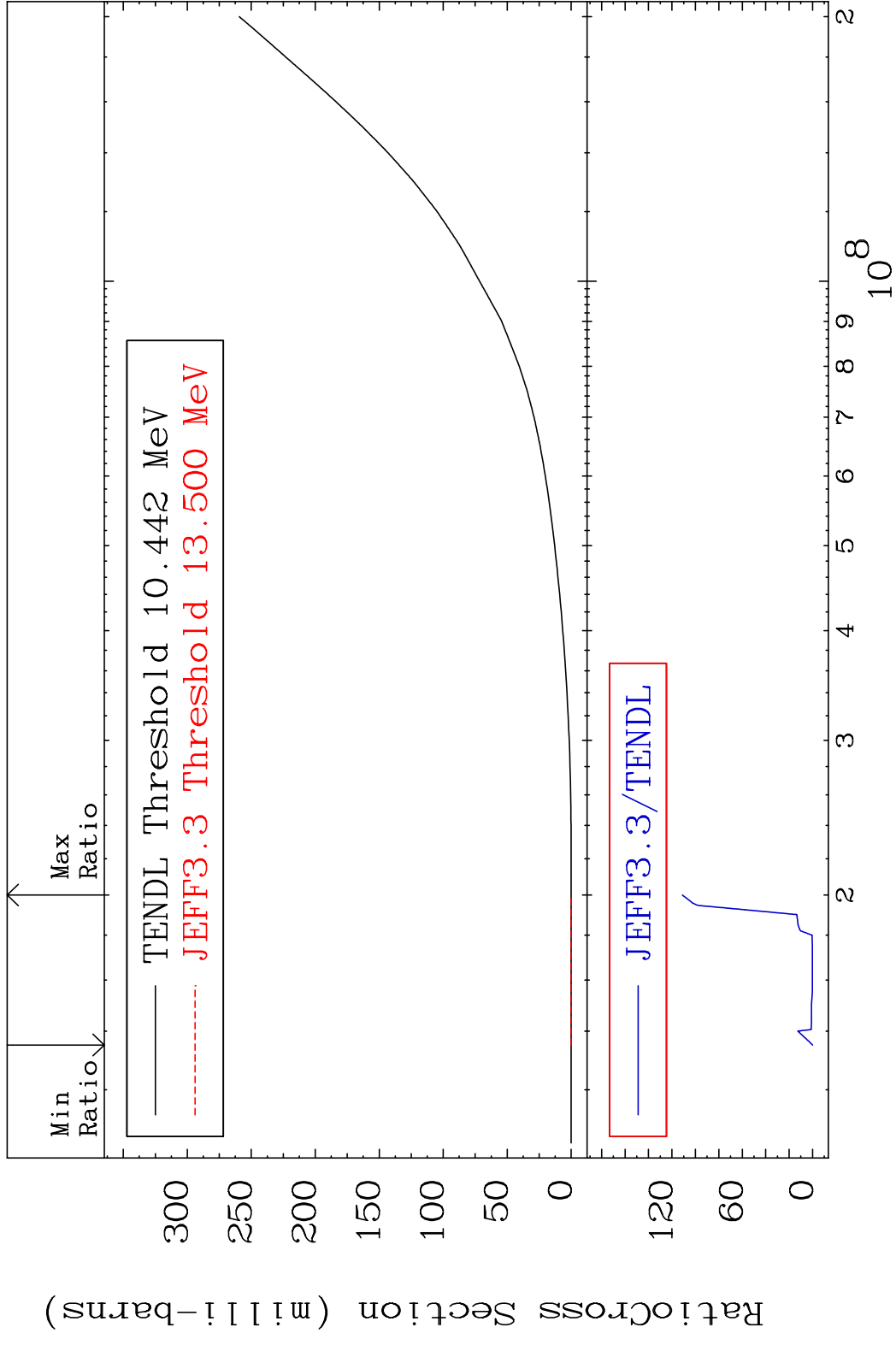
40-Zr-93

MAT 4034

He-3 Production

40-Zr-93

Cross Section -100.0 To -99.99%

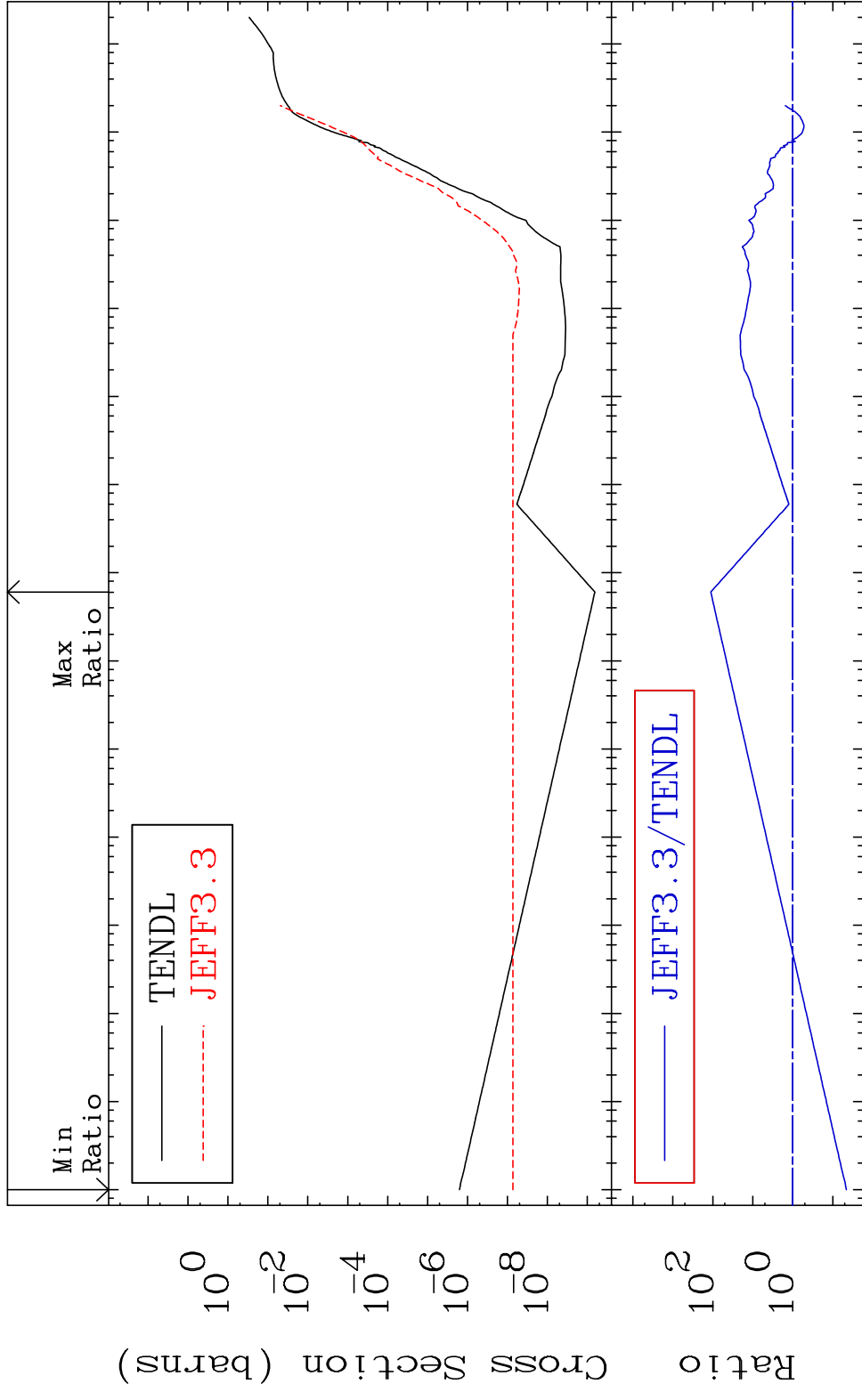


46

Incident Energy (eV)

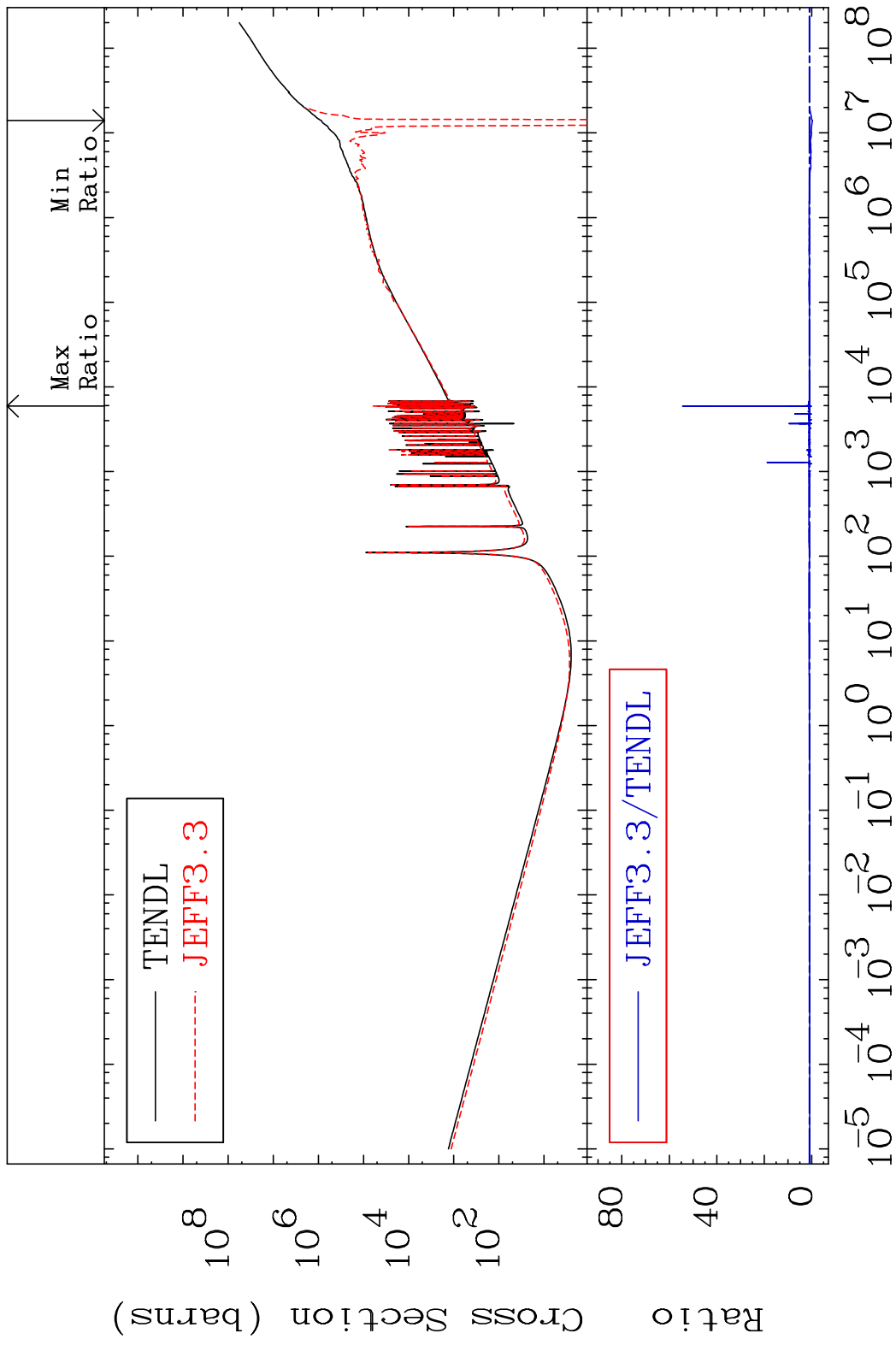
40-Zr-93

MAT 4034 He-4 Production 40-Zr-93
 Cross Section -95.42 To 9999. %



47 Incident Energy (eV) 40-Zr-93

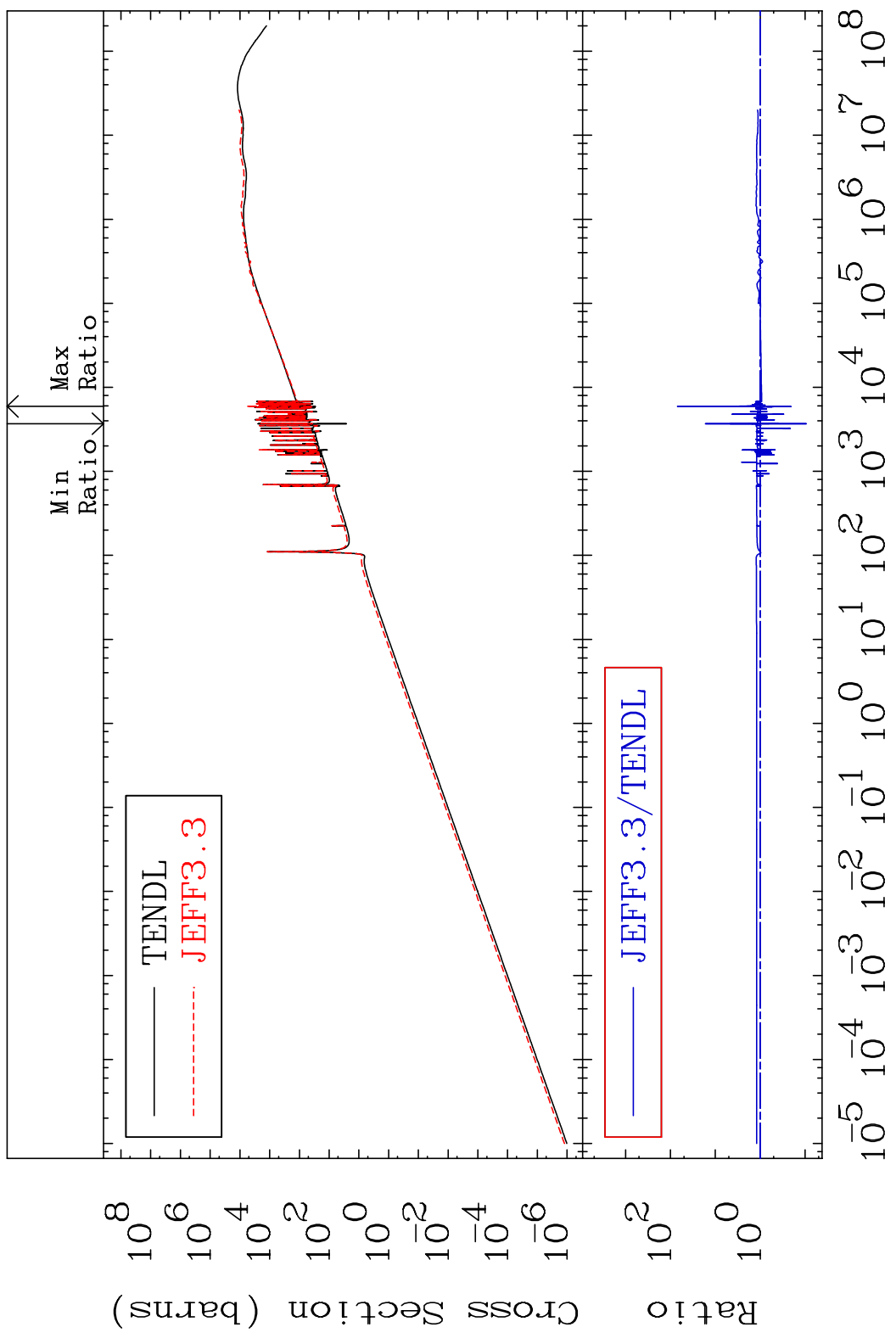
MAT 4034 Kerma total (eV-barns) 40-Zr-93
 Cross Section -132.7 To 5350. %



48 Incident Energy (eV) 40-Zr-93

MAT 4034

Kerma elastic Cross Section -90.64 To 6977. %
40-Zr-93

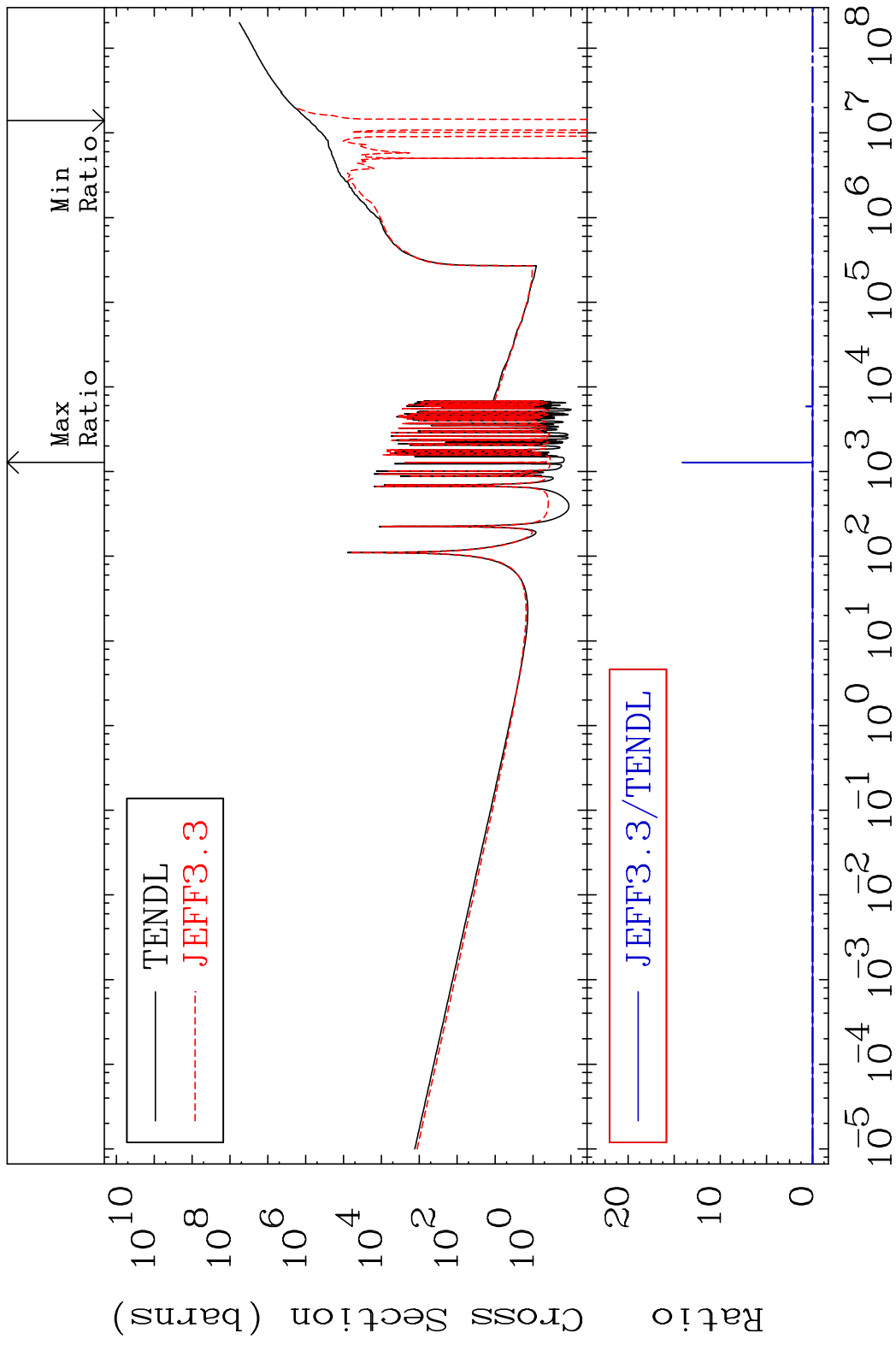


49

Incident Energy (eV)

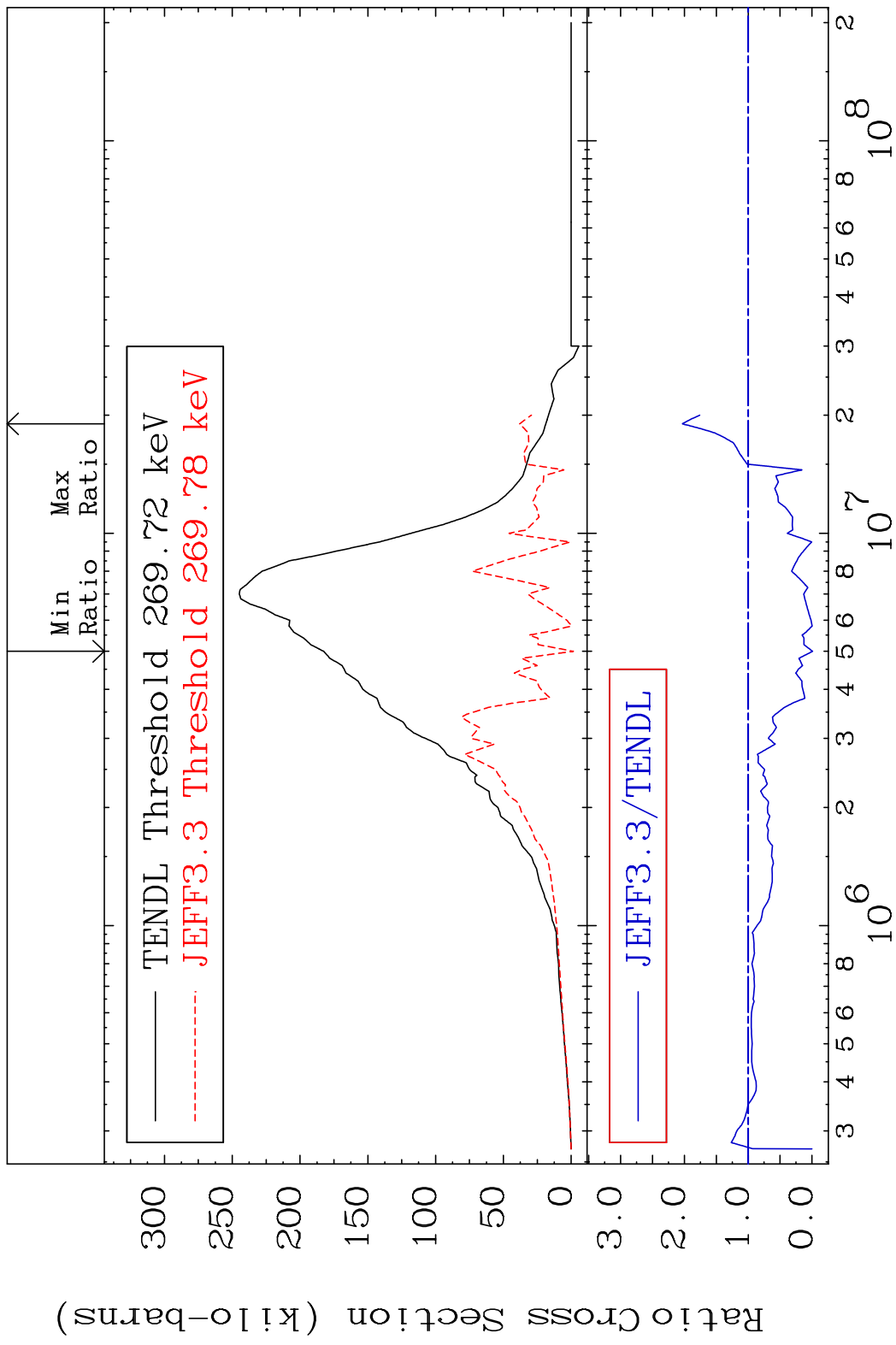
40-Zr-93

MAT 4034 Kerma non-elastic (all but mt2) 40-Zr-93
 Cross Section -147.0 To 9999. %

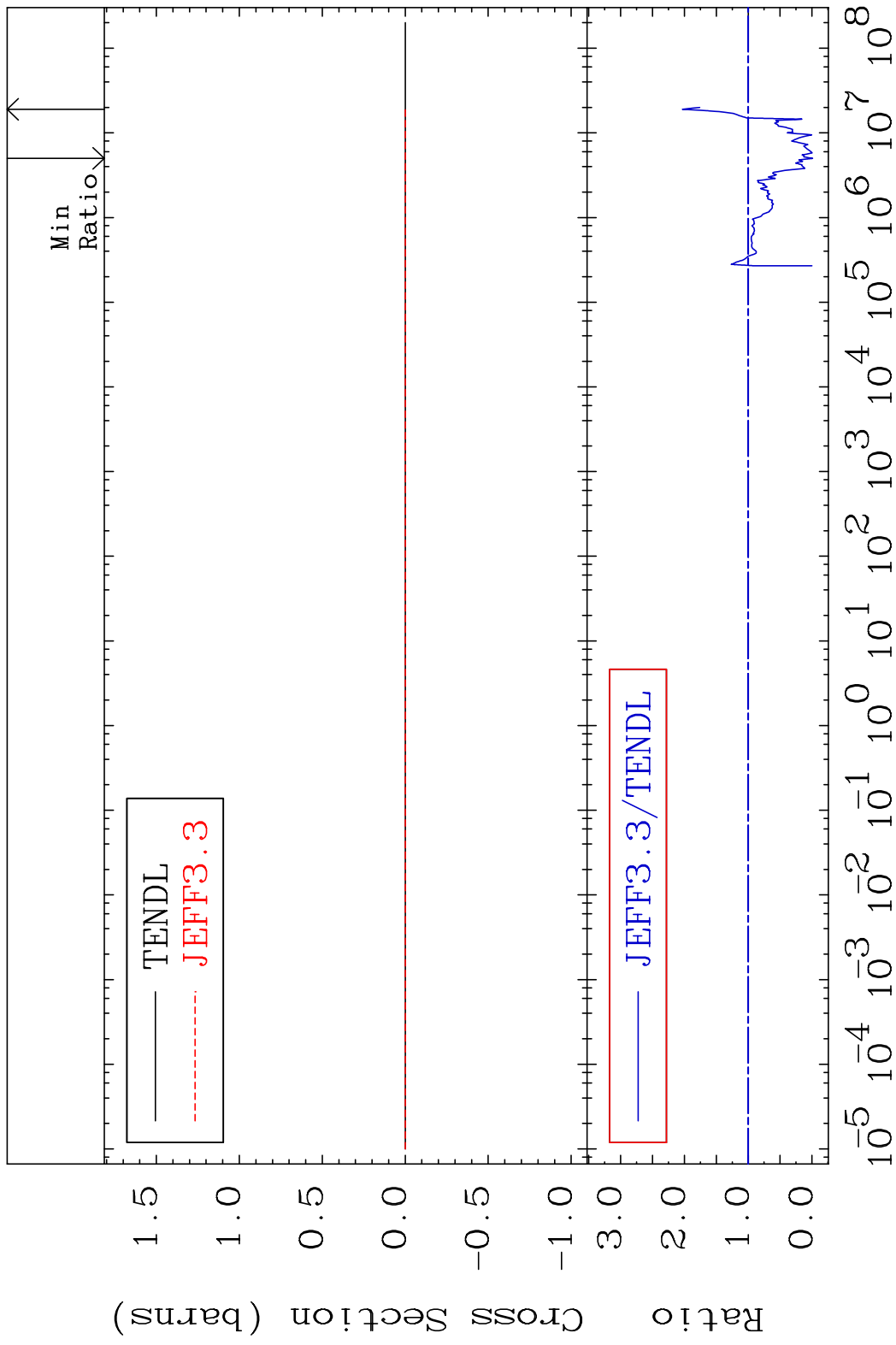


50 Incident Energy (eV) 40-Zr-93

MAT 4034 Kerma inelastic (mt51-91) 40-Zr-93
 Cross Section -100.9 To 103.2 %



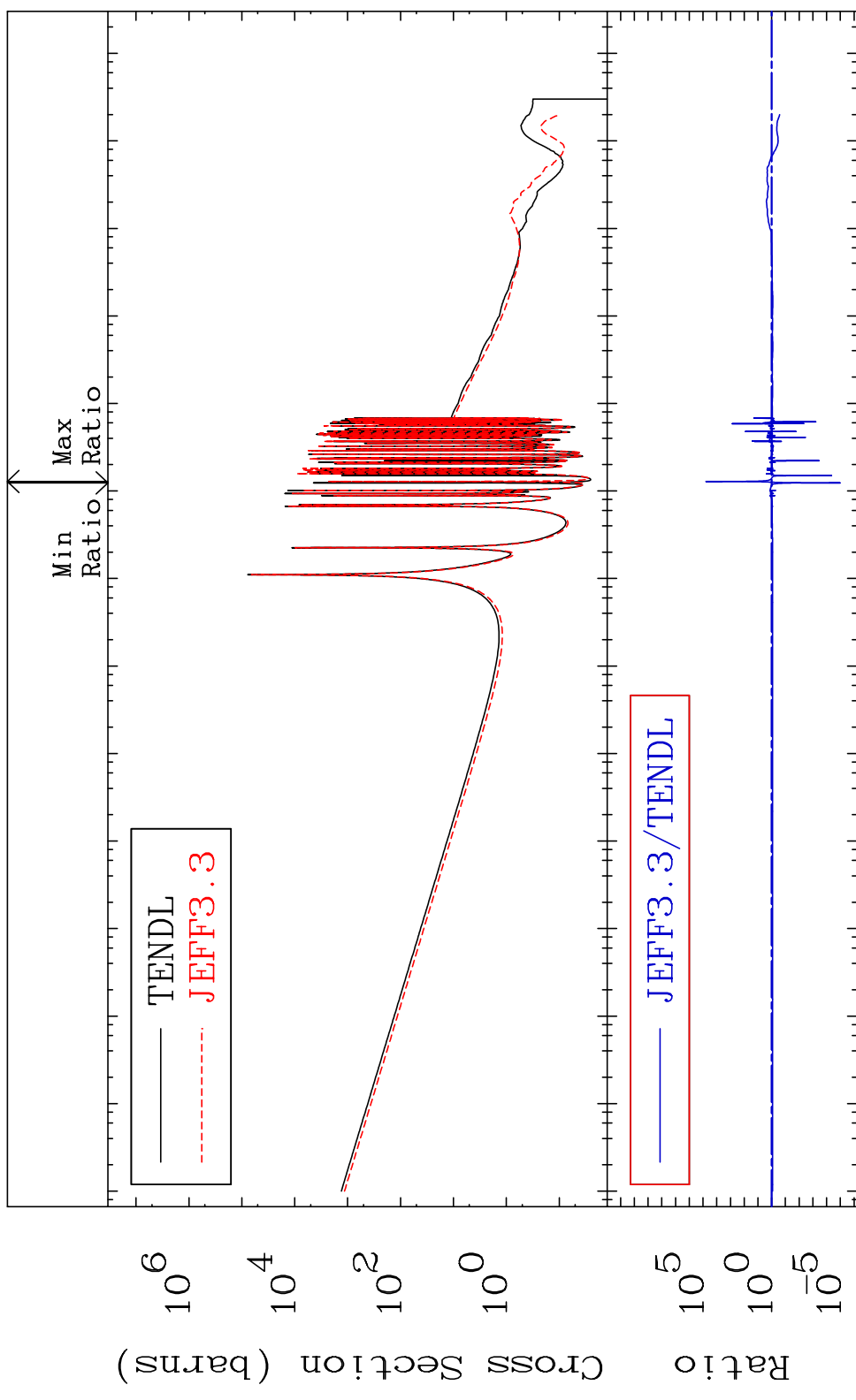
MAT 4034 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-93
 Cross Section -100.9 To 103.2 %



MAT 4034

Kerma capture (mt102) 40-Zr-93

Cross Section -100.0 To 9999. %

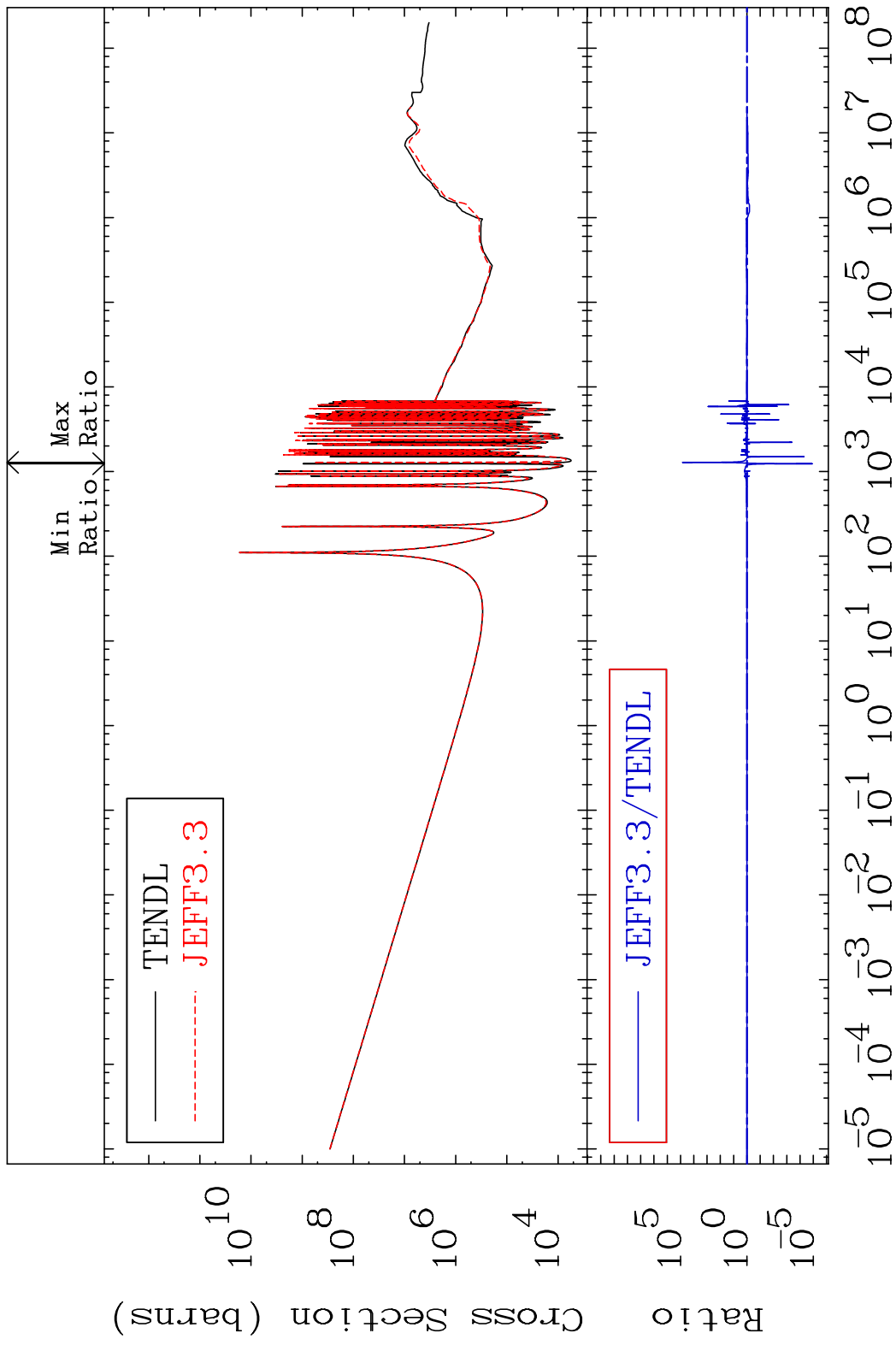


53

Incident Energy (eV)

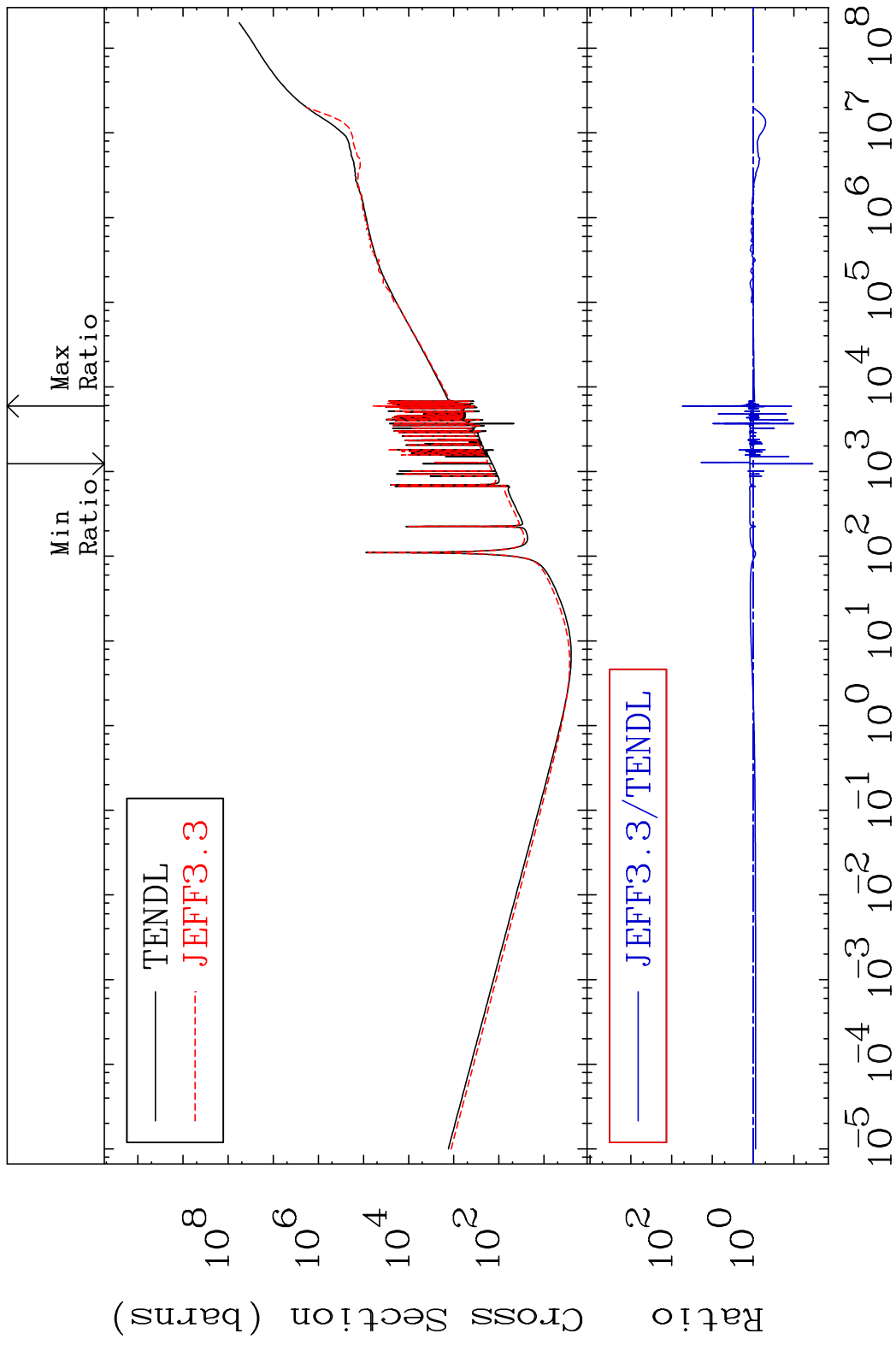
40-Zr-93

MAT 4034 Total photon (eV-barns) 40-Zr-93
 Cross Section -100.0 To 9999. %

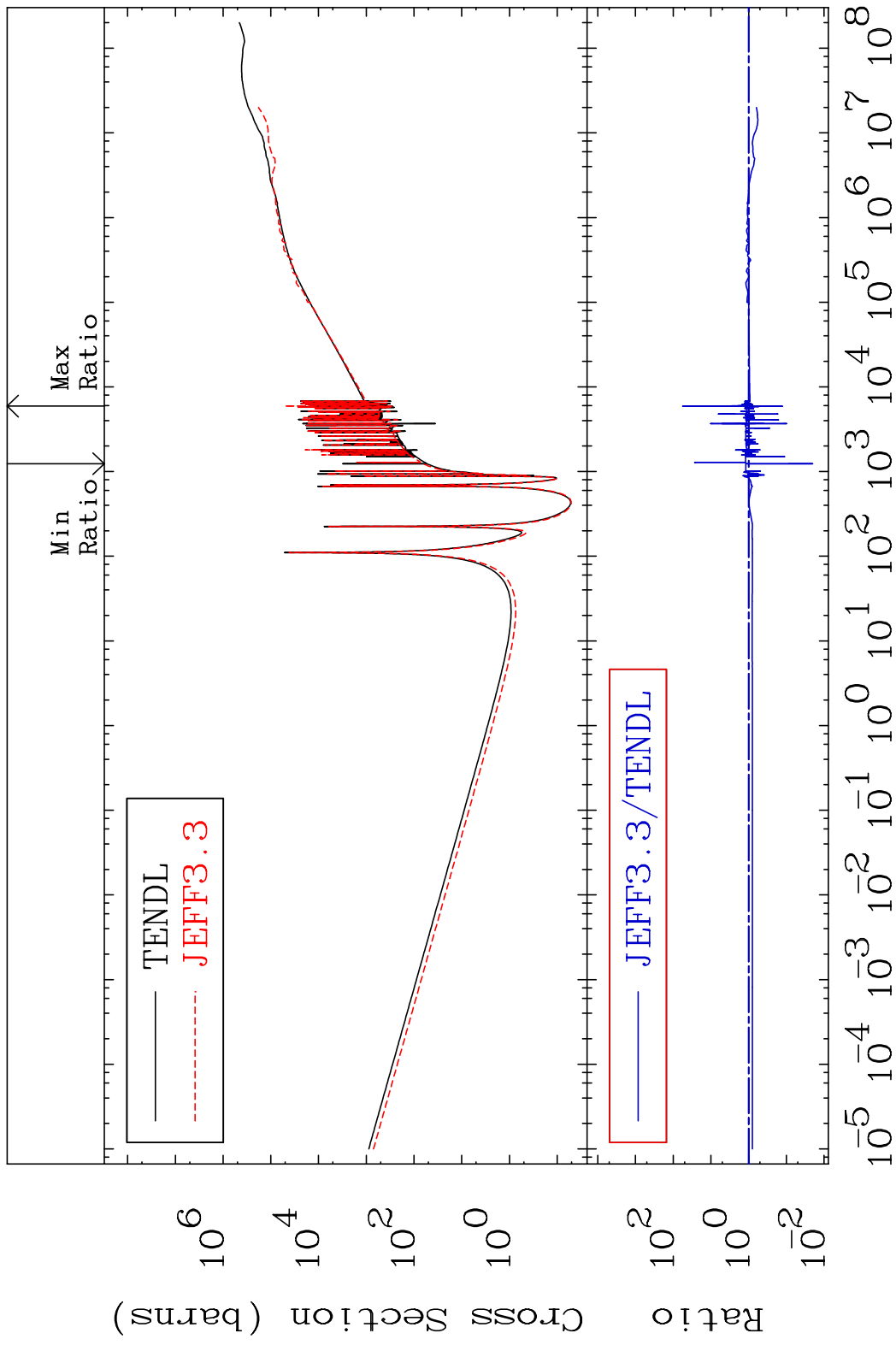


54 Incident Energy (eV) 40-Zr-93

MAT 4034 Total kinematic kerma (high limit) 40-Zr-93
 Cross Section -96.53 To 5350. %



MAT 4034 Dpa total (eV-barns) 40-Zr-93
 Cross Section -97.98 To 5625. %



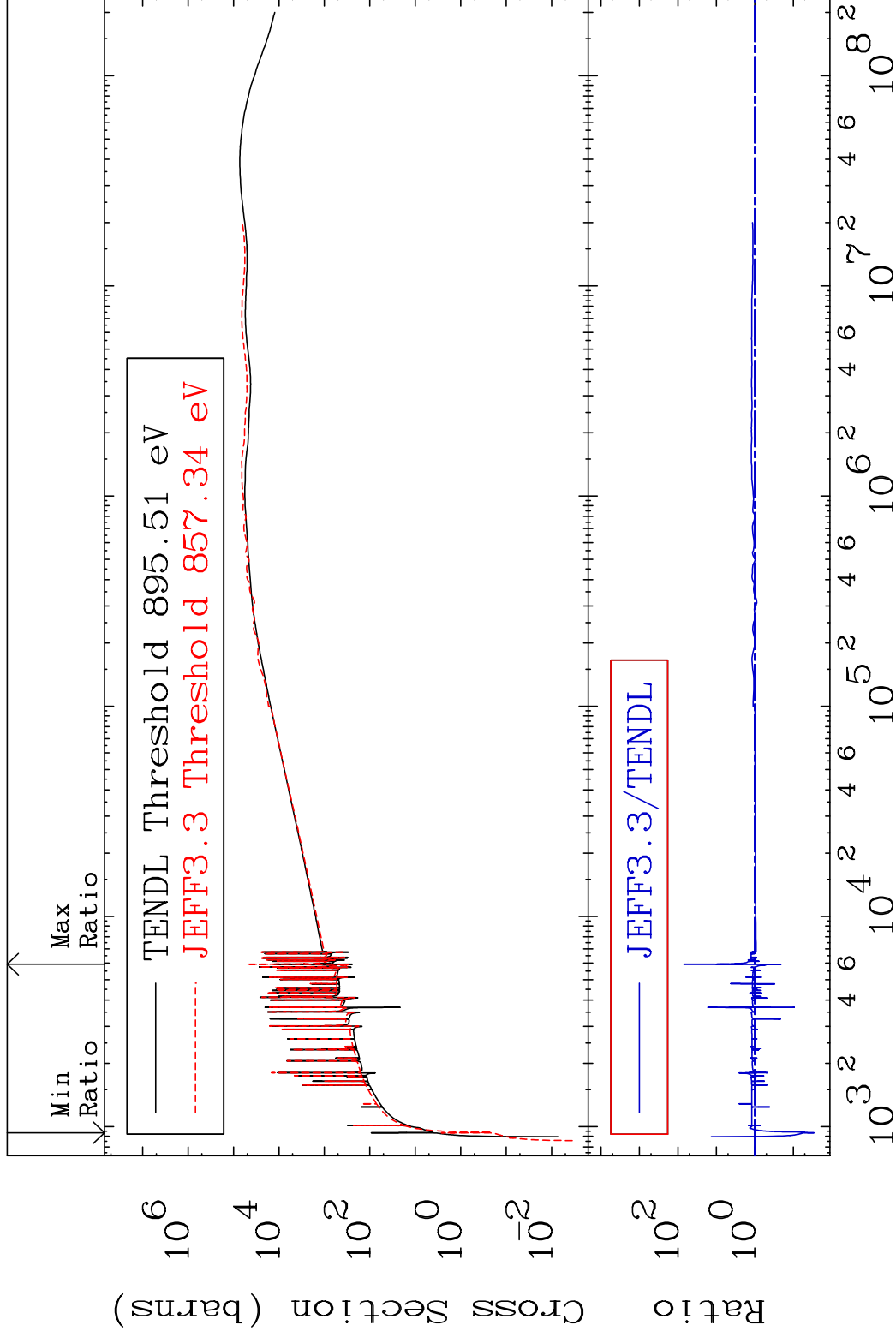
56 Incident Energy (eV) 40-Zr-93

MAT 4034

Dpa elastic (mt2)

40-Zr-93

Cross Section -97.13 To 6977. %

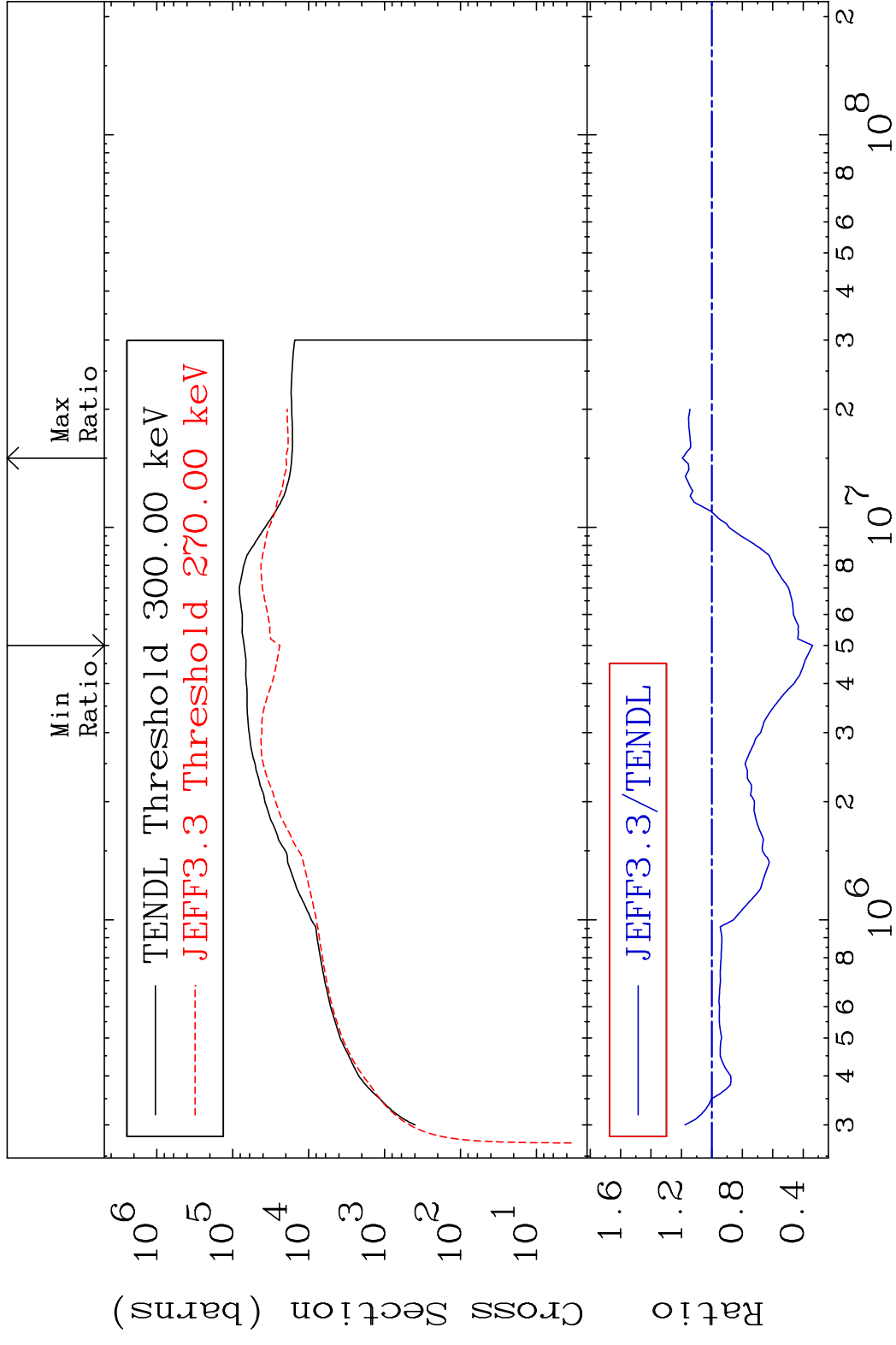


57

Incident Energy (eV)

40-Zr-93

MAT 4034 Dpa inelastic (mt51-91) 40-Zr-93
 Cross Section -66.15 To 19.42 %



MAT 4034 Dpa disappearance (mt102 -120) 40-Zr-93
Cross Section -100.0 To 9999. %

