

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

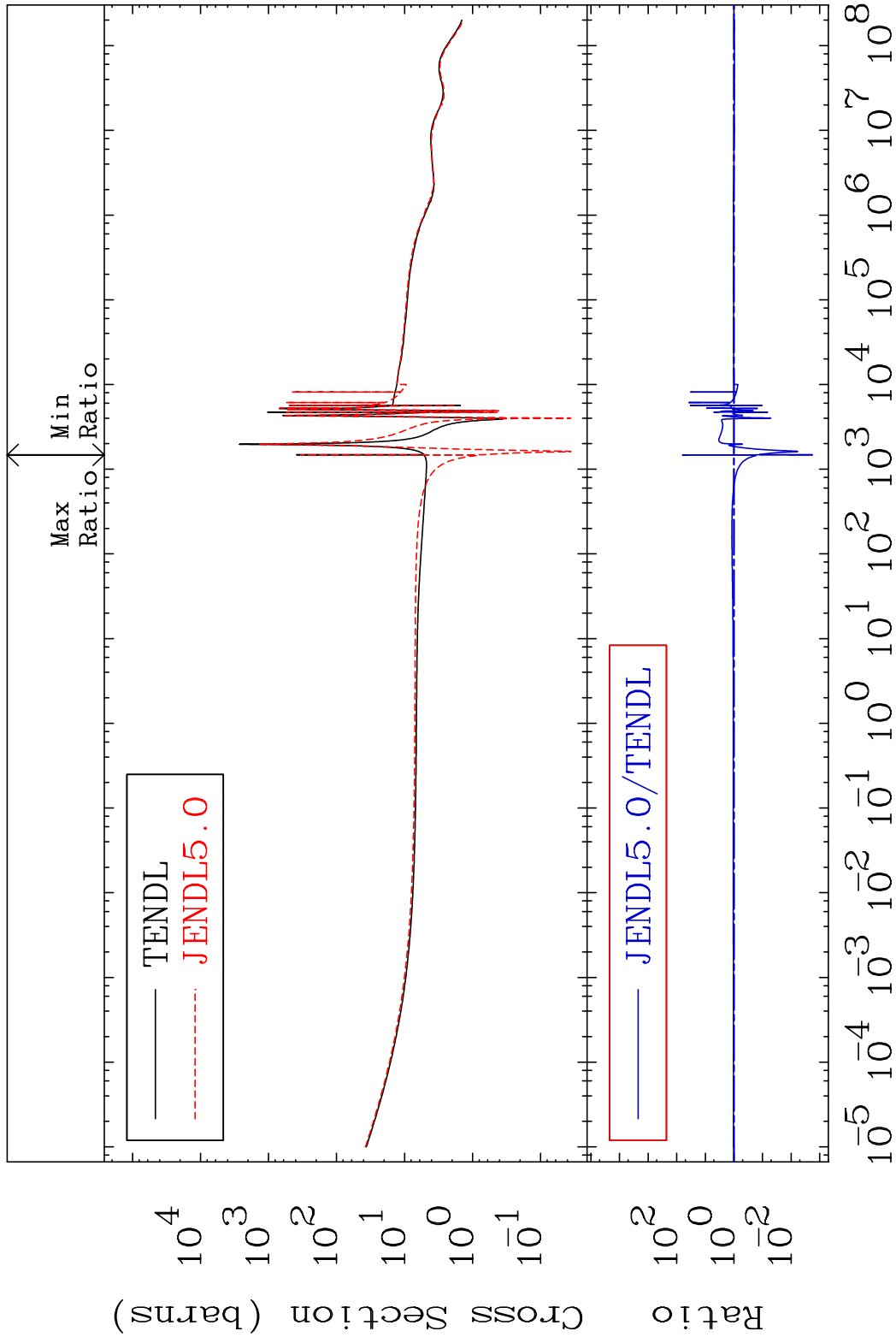
Press Mouse Button to Start

MAT 3443

Total

34-Se-80

Cross Section -99.82 To 6250. %



1

Incident Energy (eV)

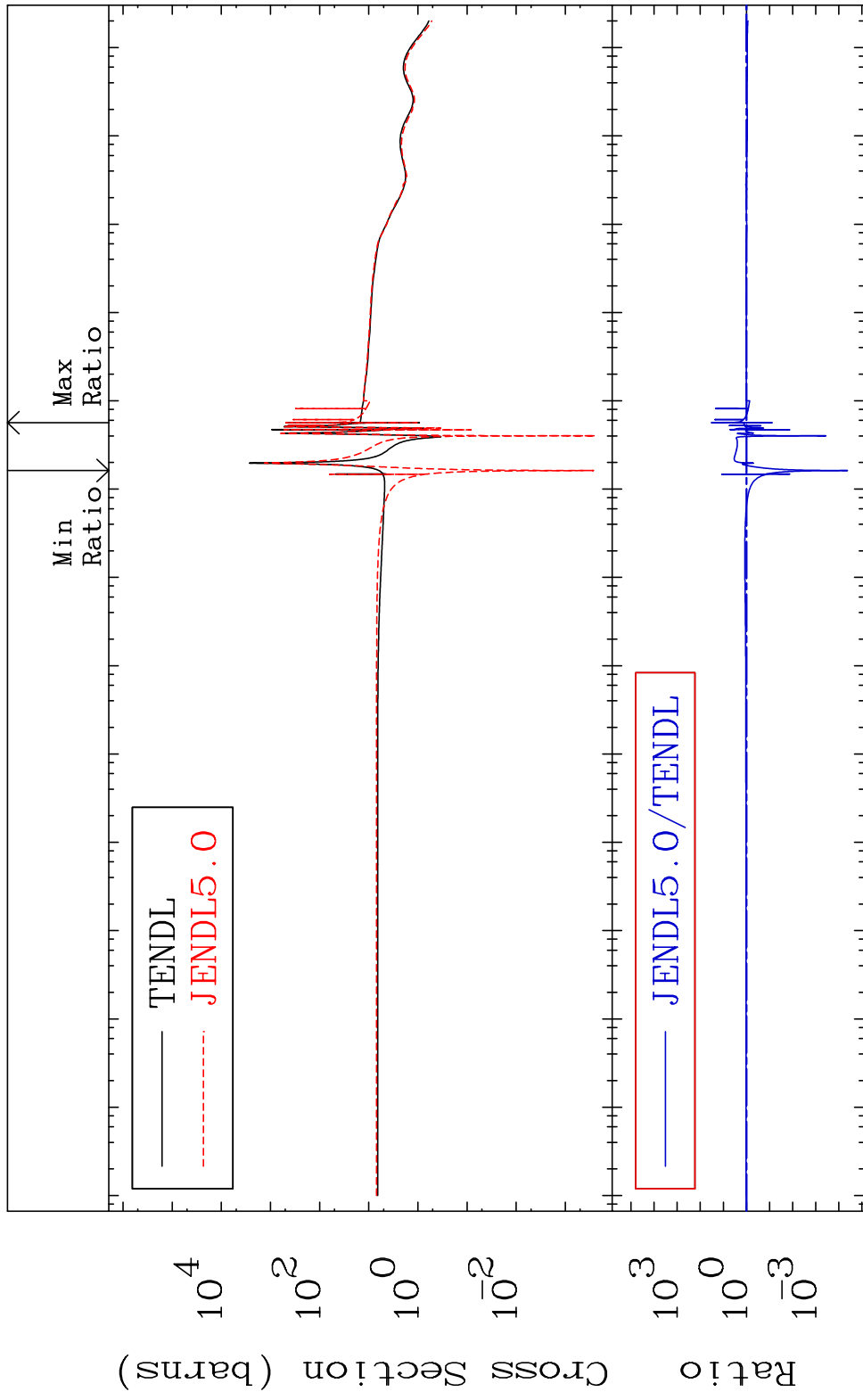
34-Se-80

MAT 3443

Elastic

³⁴Se-80

Cross Section -100.0 To 3146. %



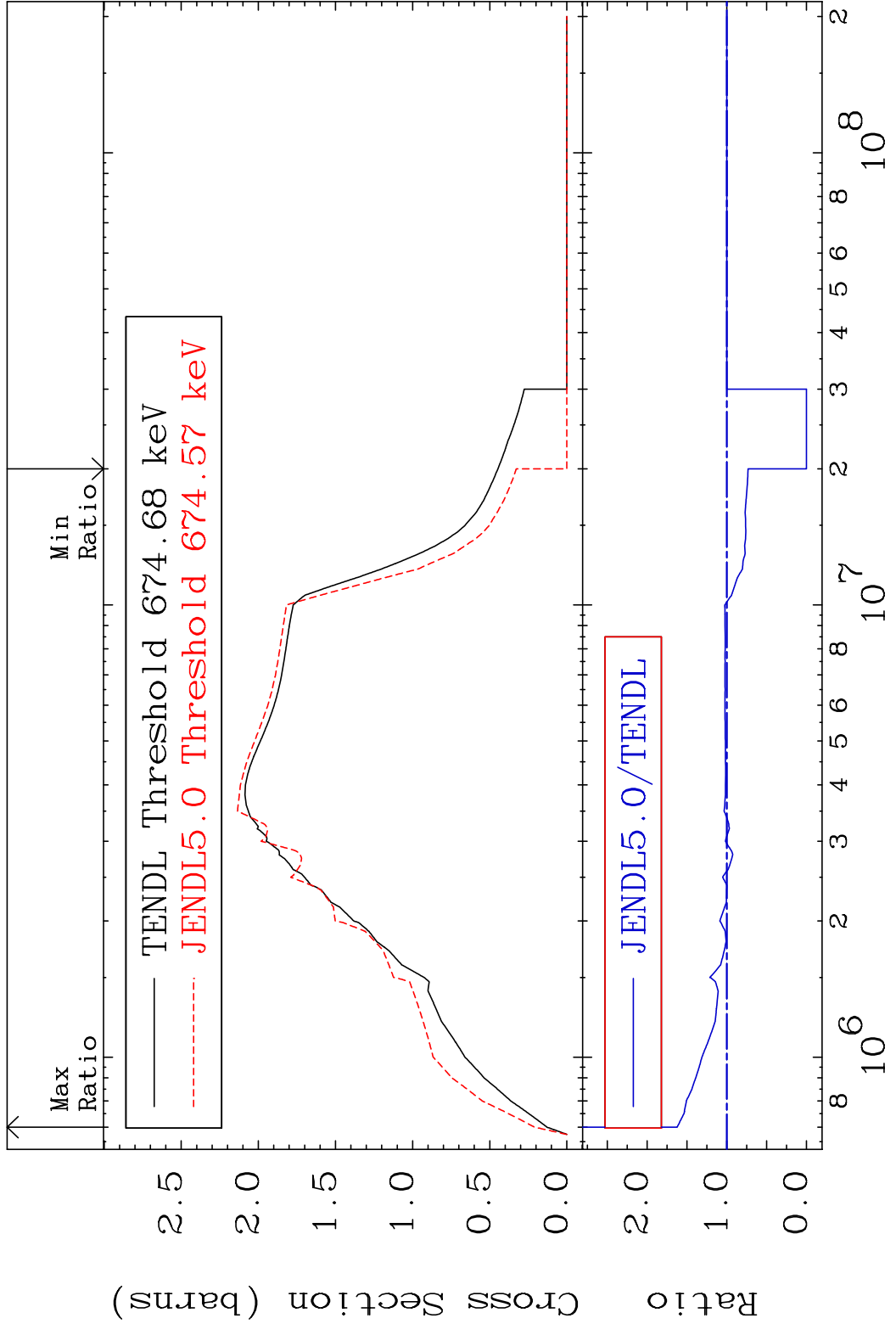
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

2

Incident Energy (eV)

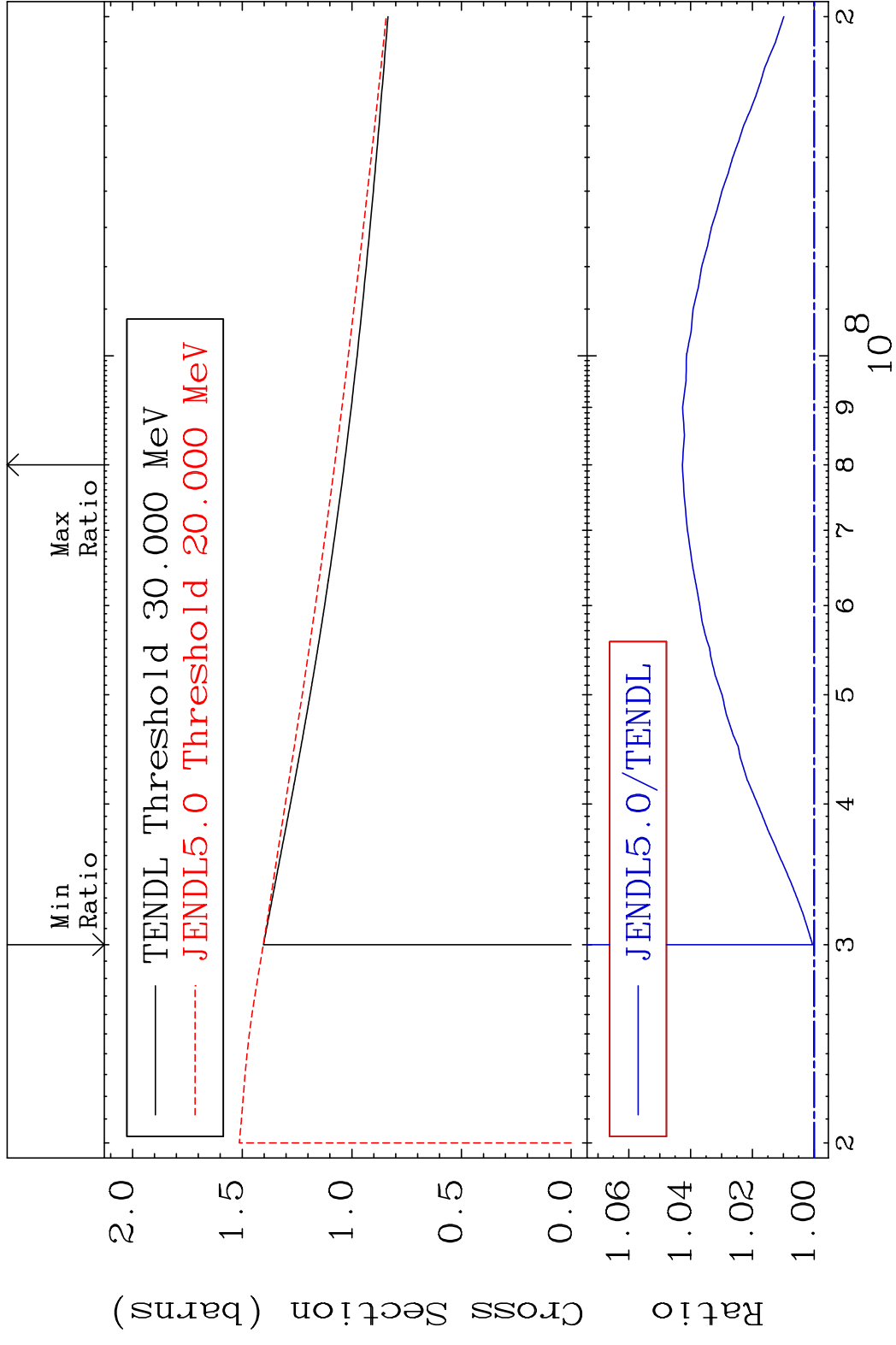
³⁴Se-80

MAT 3443 Inelastic Cross Section -100.0 To 62.31 % 34-Se-80



3 Incident Energy (eV) 34-Se-80

MAT 3443 (n, remainder) 34-Se-80
 Cross Section 0.054 To 4.268 %



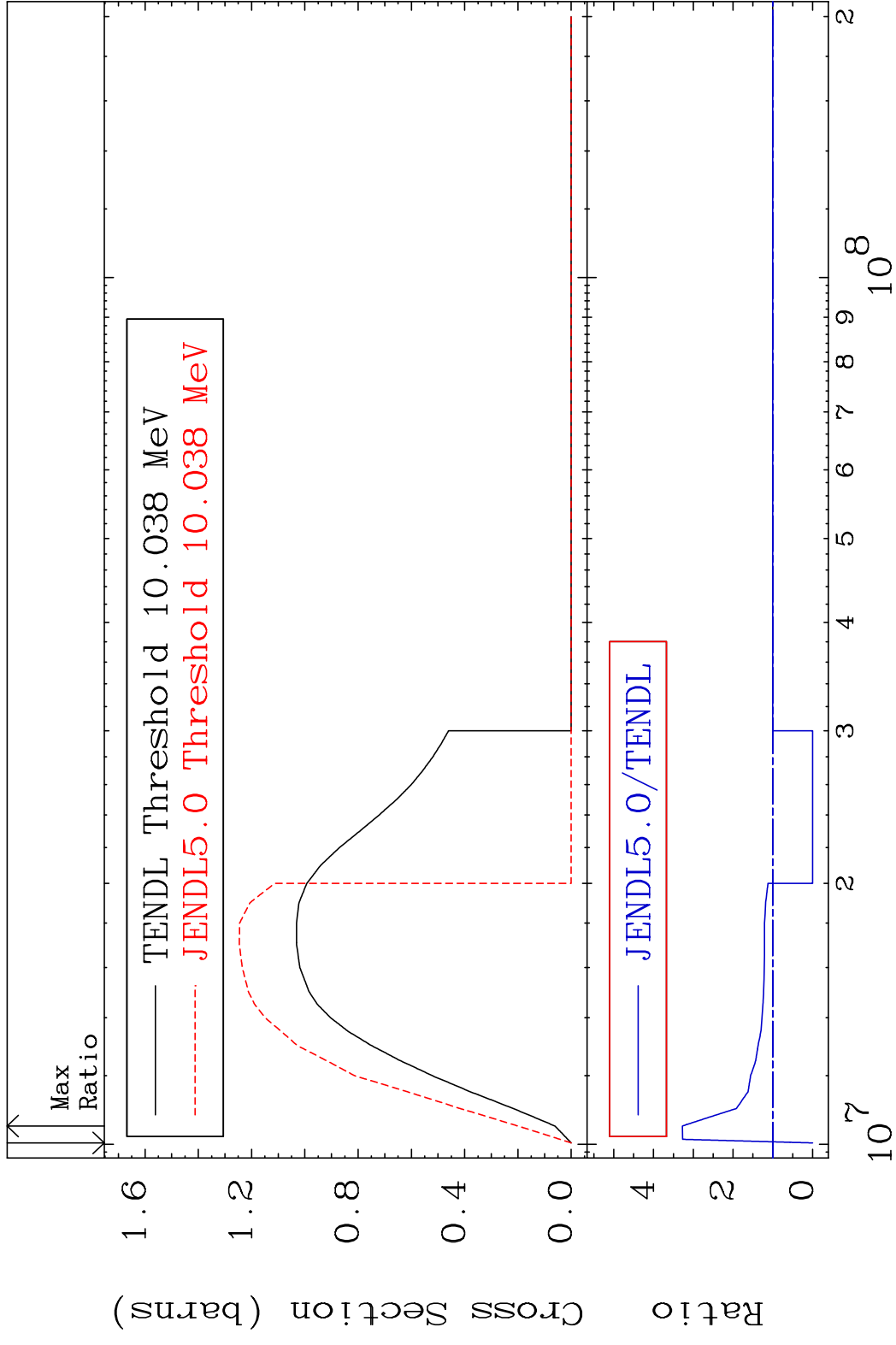
4 Incident Energy (eV) 34-Se-80

MAT 3443

(n,2n)

³⁴Se-80

Cross Section -100.0 To 227.5 %

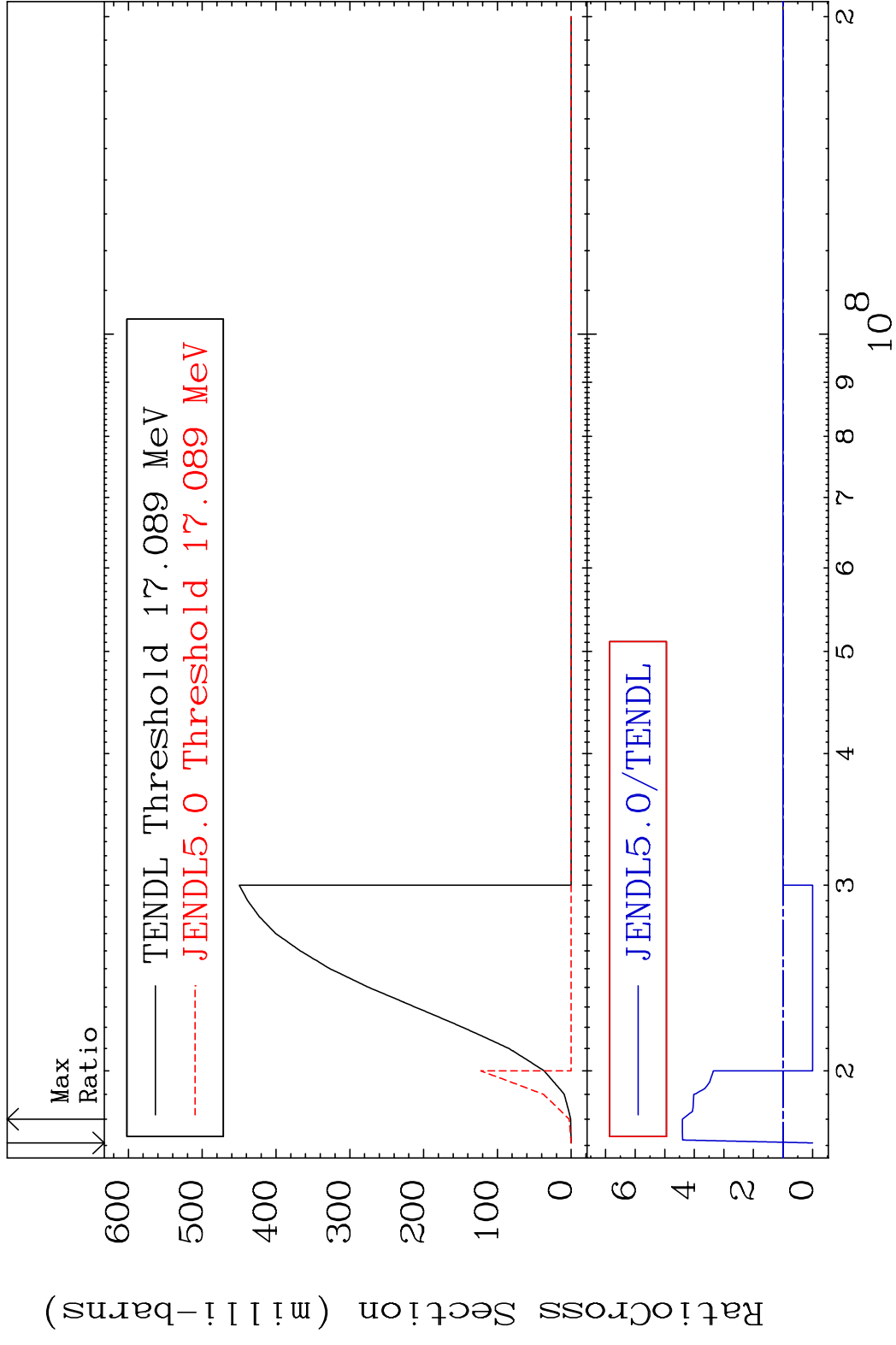


5

Incident Energy (eV)

³⁴Se-80

MAT 3443 (n,3n) 34-Se-80
 Cross Section -100.0 To 340.4 %

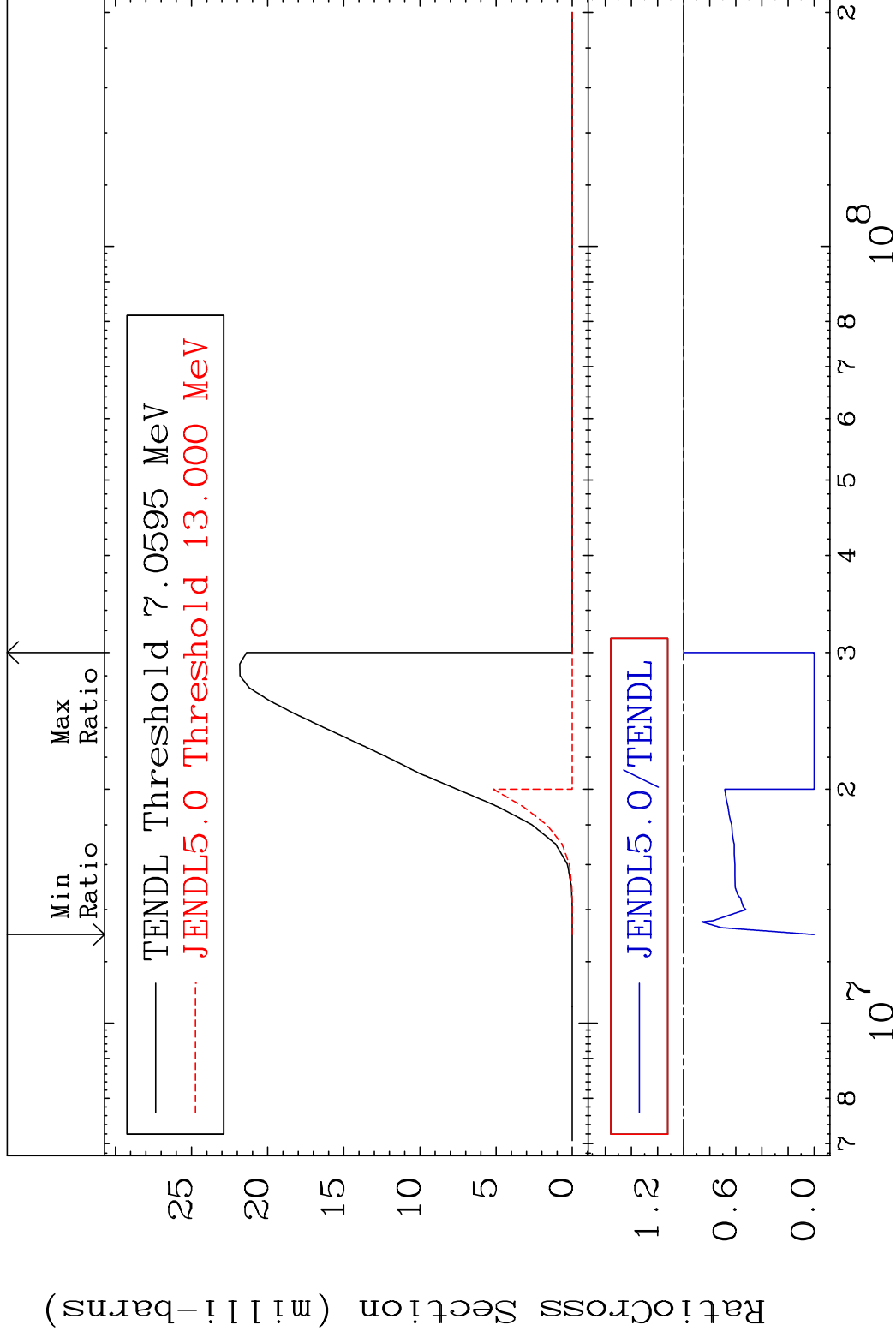


MAT 3443

(n, n') α

³⁴Se-80

Cross Section -100.0 To 0.000 %

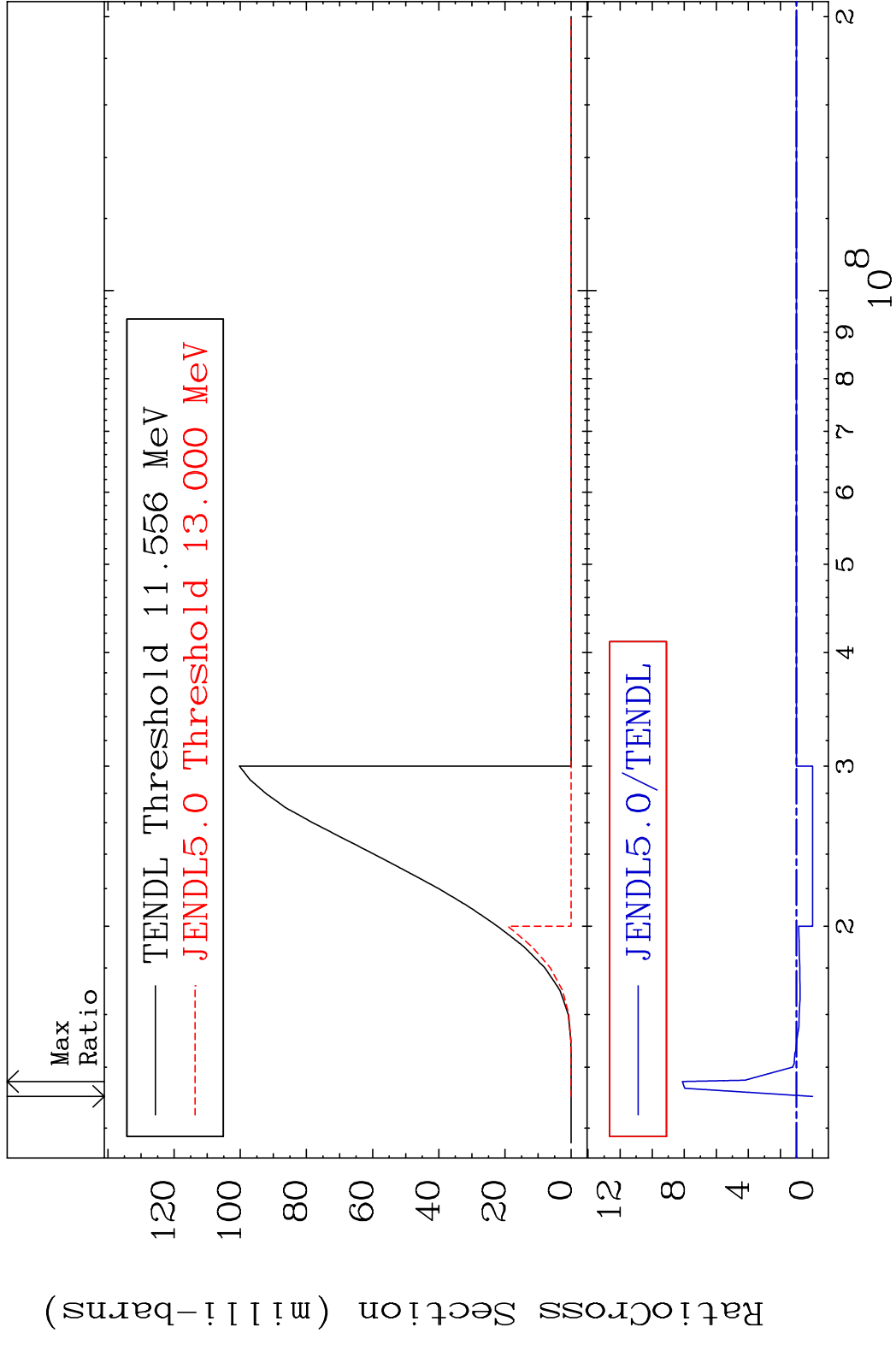


7

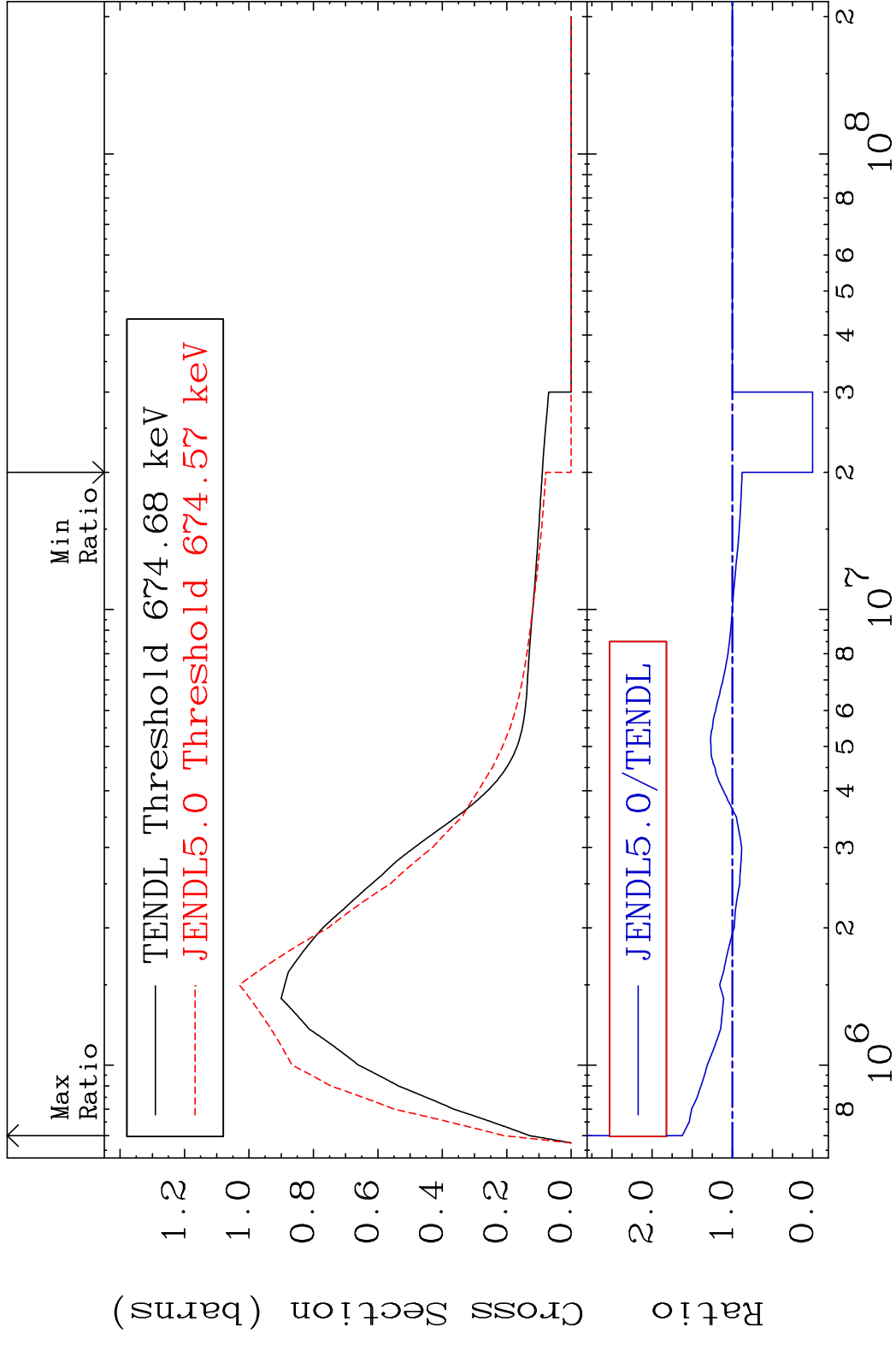
Incident Energy (eV)

³⁴Se-80

MAT 3443 (n, n') p 34-Se-80
 Cross Section -100.0 To 711.9 %

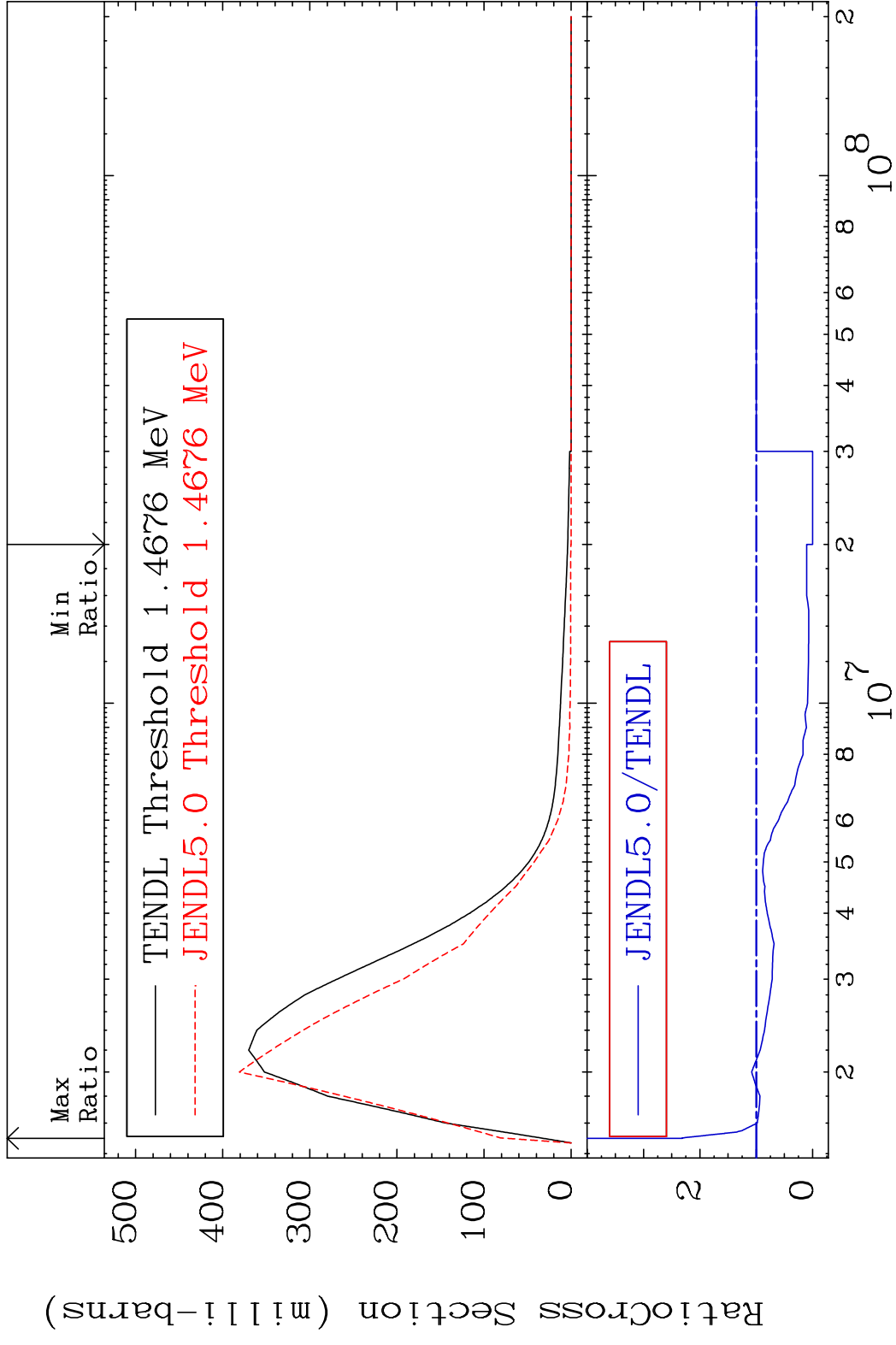


MAT 3443 MT= 51 (n, n') Level 34-Se-80
 Cross Section -100.0 To 62.31 %



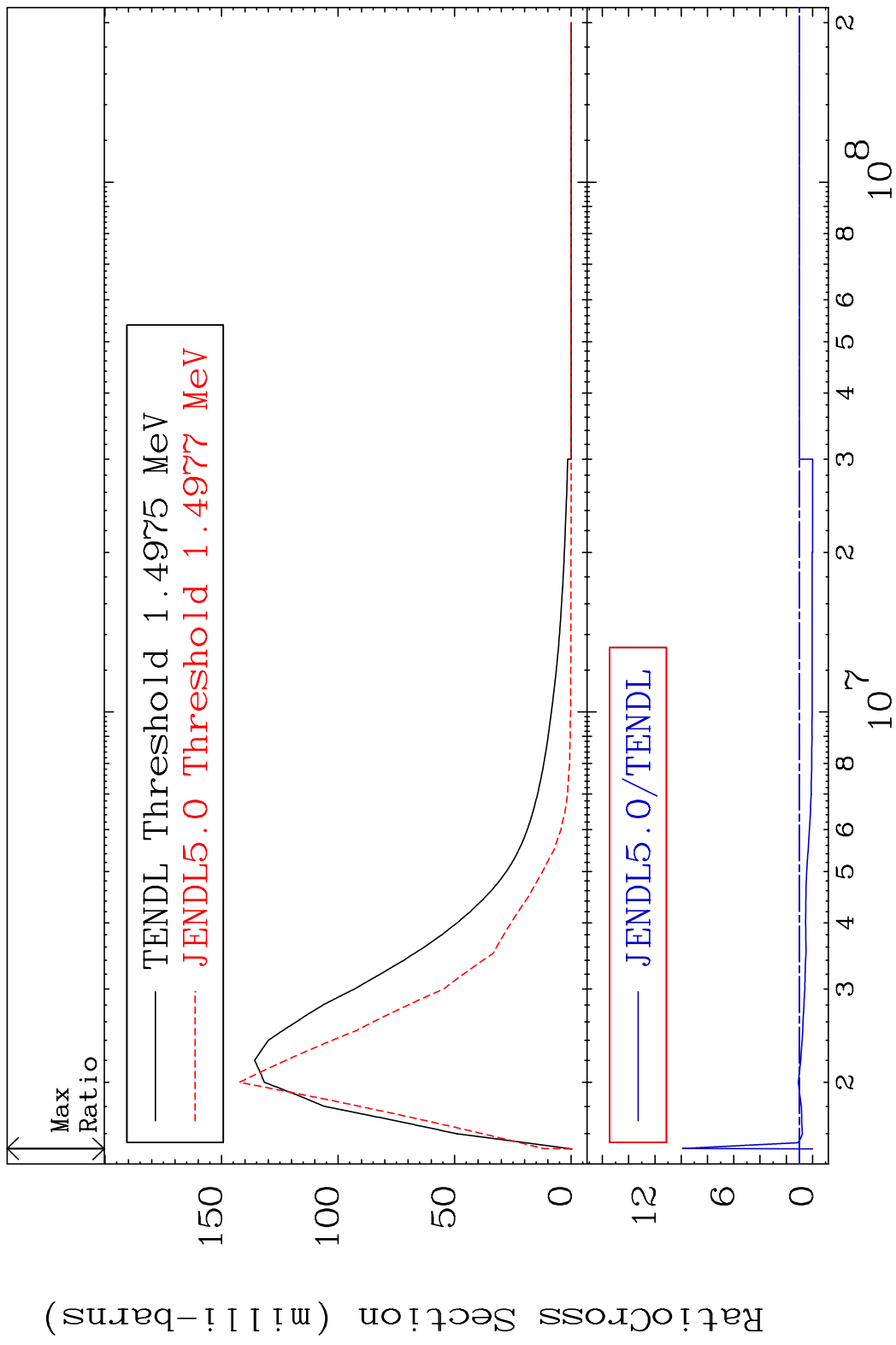
9 Incident Energy (eV) 34-Se-80

MAT 3443 MT= 52 (n, n') Level 34-Se-80
 Cross Section -100.0 To 131.2 %

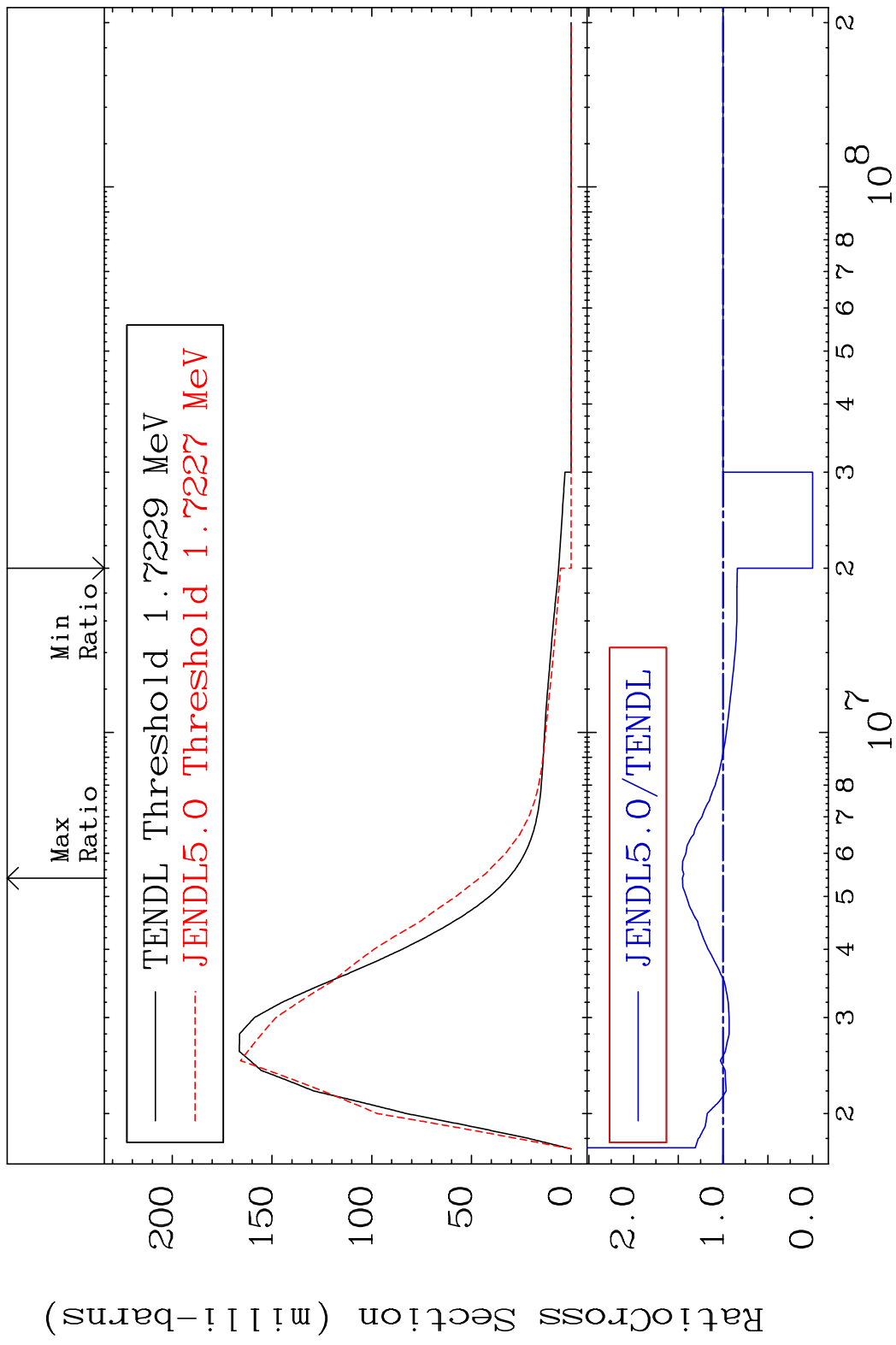


10 2 3 4 5 6 8 10⁷ 2 3 4 5 6 8 10⁸ 34-Se-80

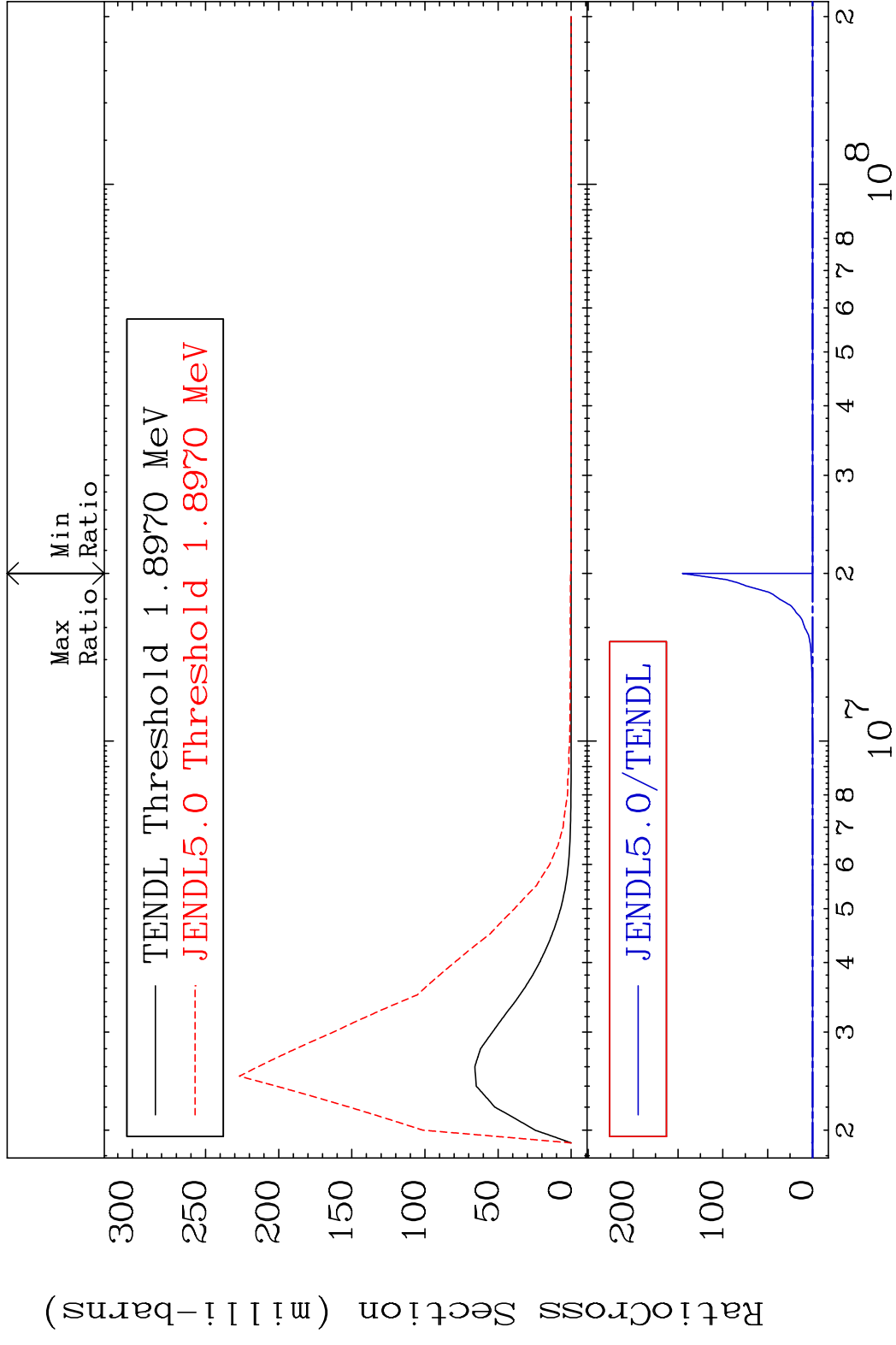
MAT 3443 MT= 53 (n, n') Level 34-Se-80
 Cross Section -100.0 To 891.3 %



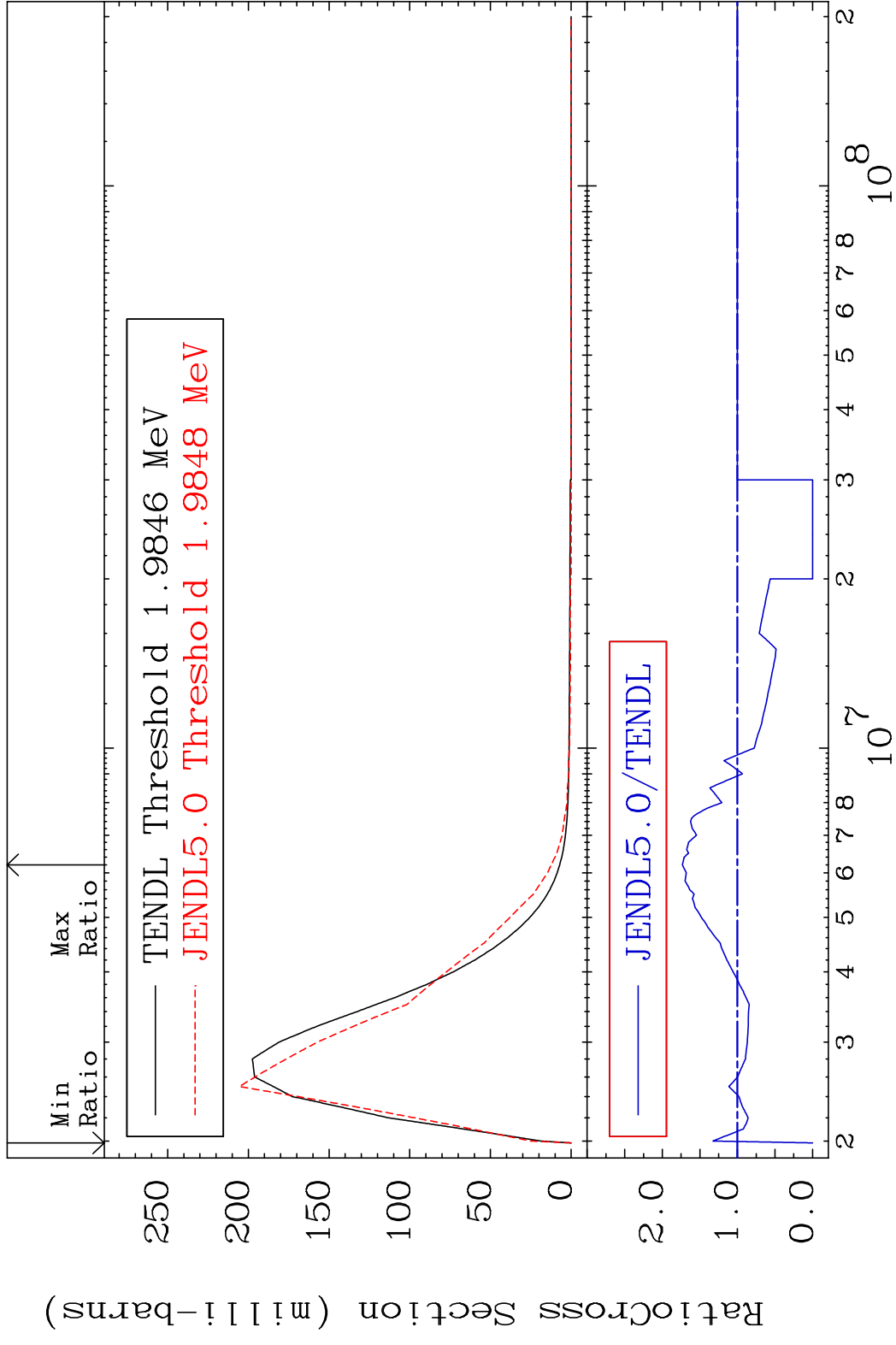
MAT 3443 MT= 54 (n, n') Level 34-Se-80
 Cross Section -100.0 To 45.50 %



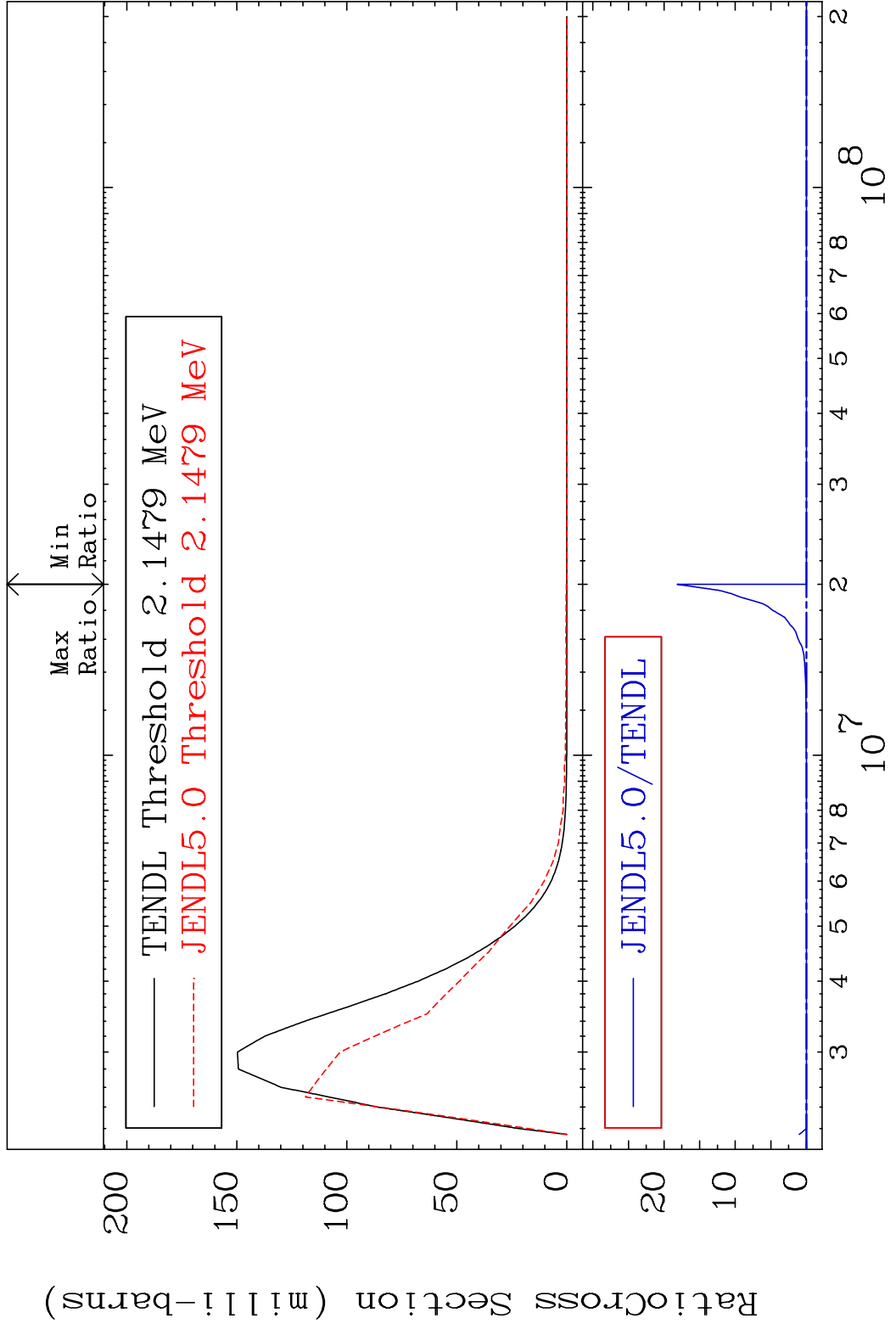
MAT 3443 MT= 55 (n, n') Level 34-Se-80
 Cross Section -100.0 To 9999. %



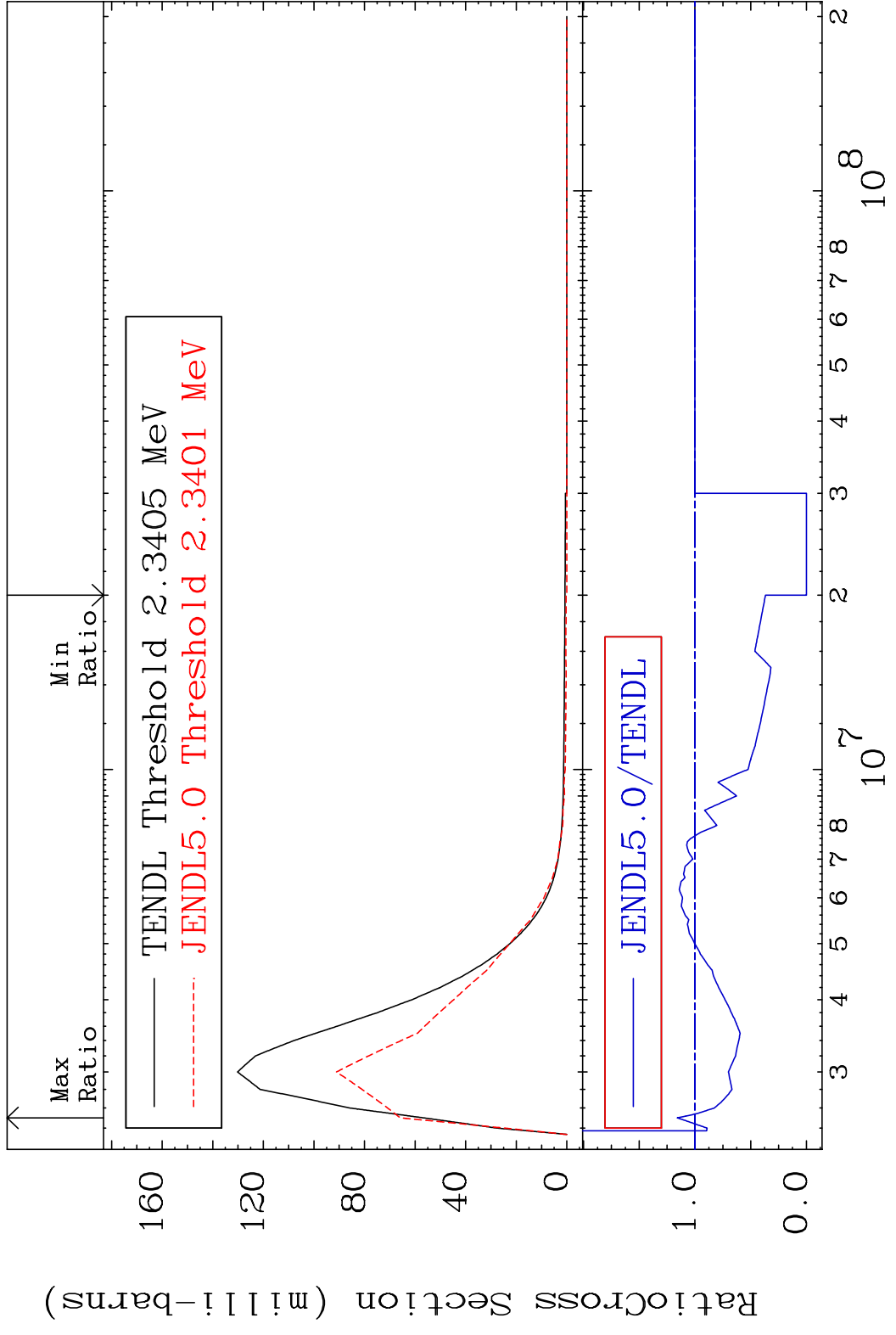
MAT 3443 MT= 56 (n,n') Level 34-Se-80
 Cross Section -100.0 To 73.31 %



MAT 3443 MT= 57 (n, n') Level 34-Se-80
 Cross Section -100.0 To 9999. %

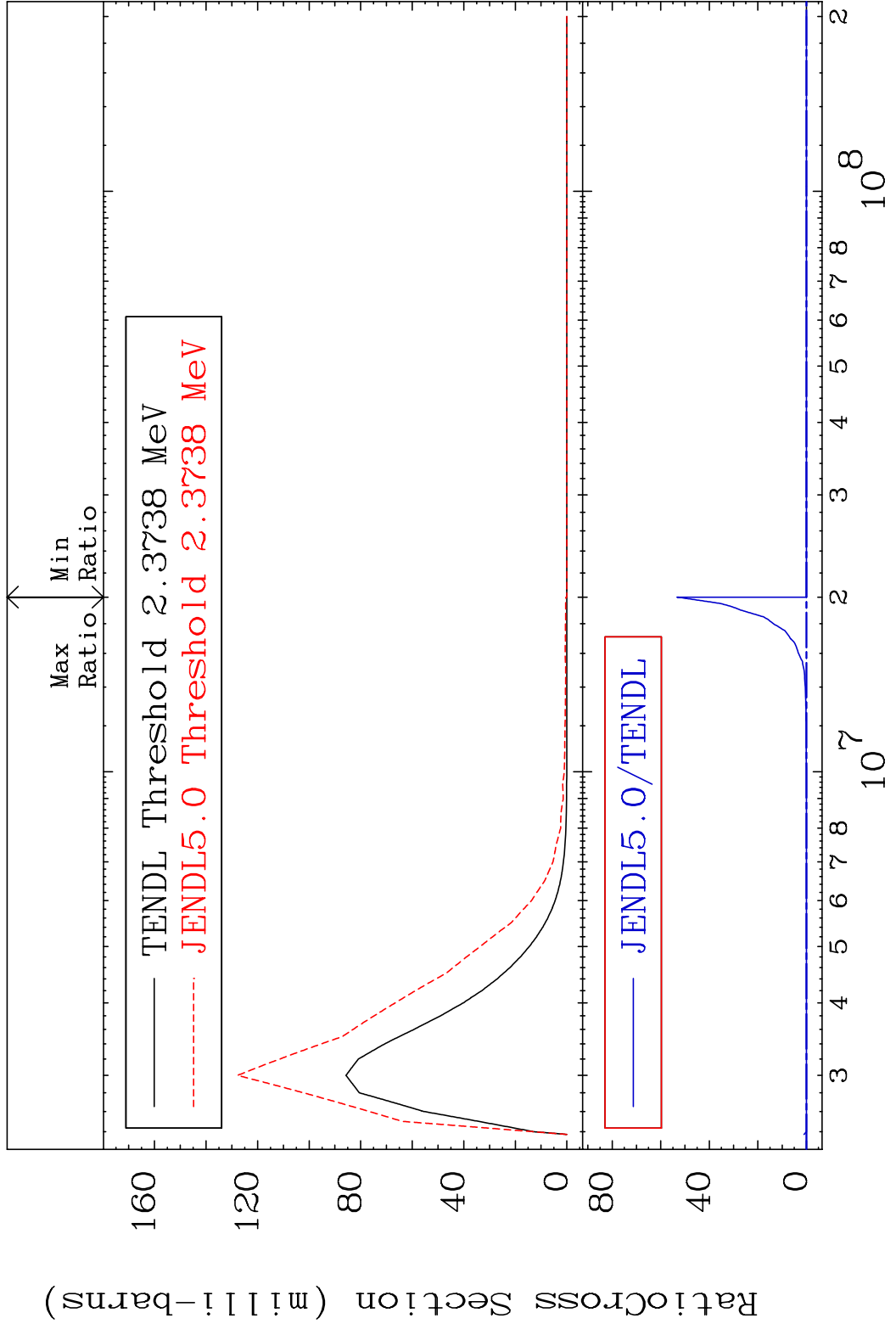


MAT 3443 MT= 58 (n,n') Level 34-Se-80
 Cross Section -100.0 To 15.96 %

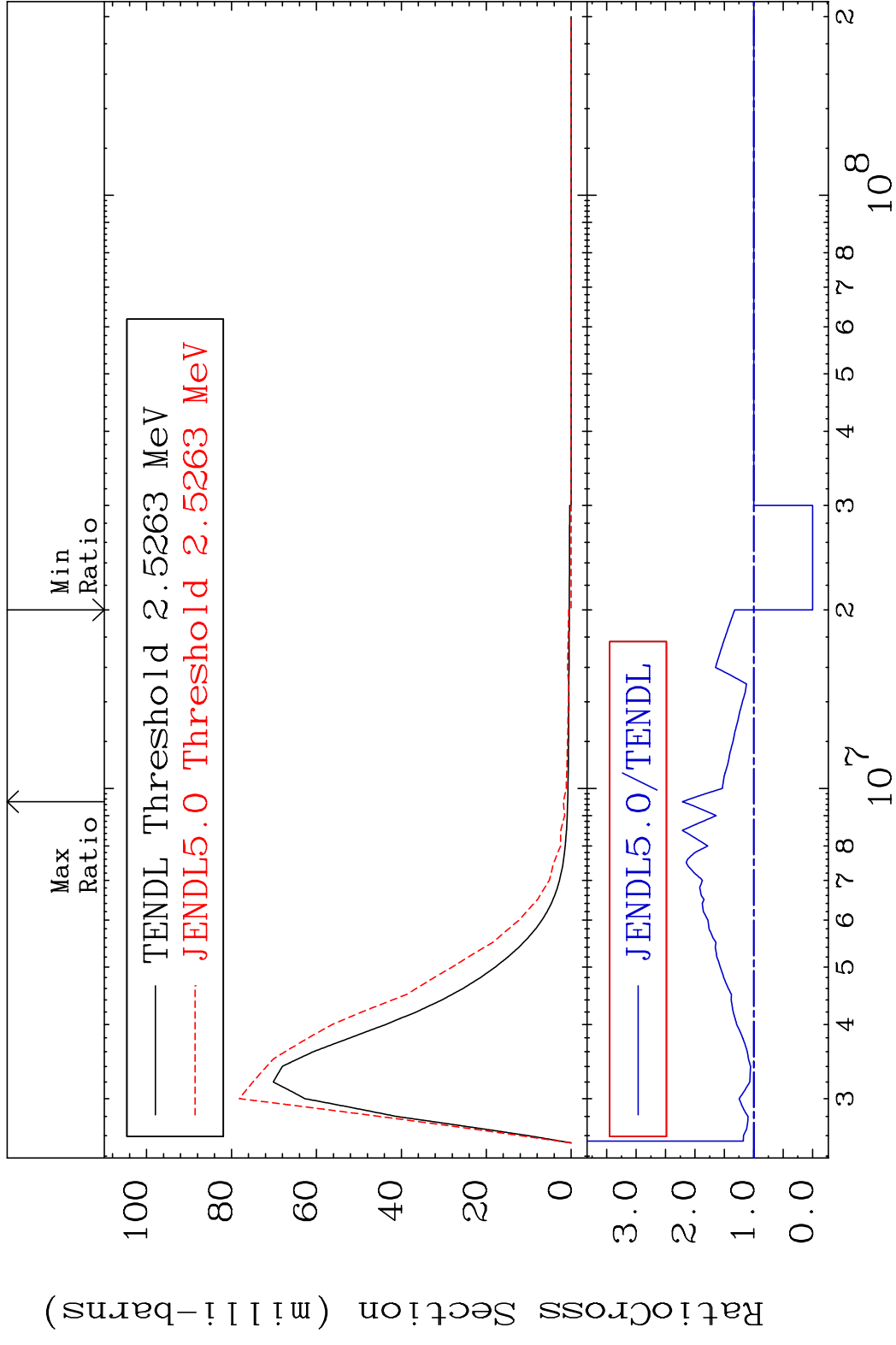


16 34-Se-80

MAT 3443 MT= 59 (n, n') Level 34-Se-80
 Cross Section -100.0 To 9999. %

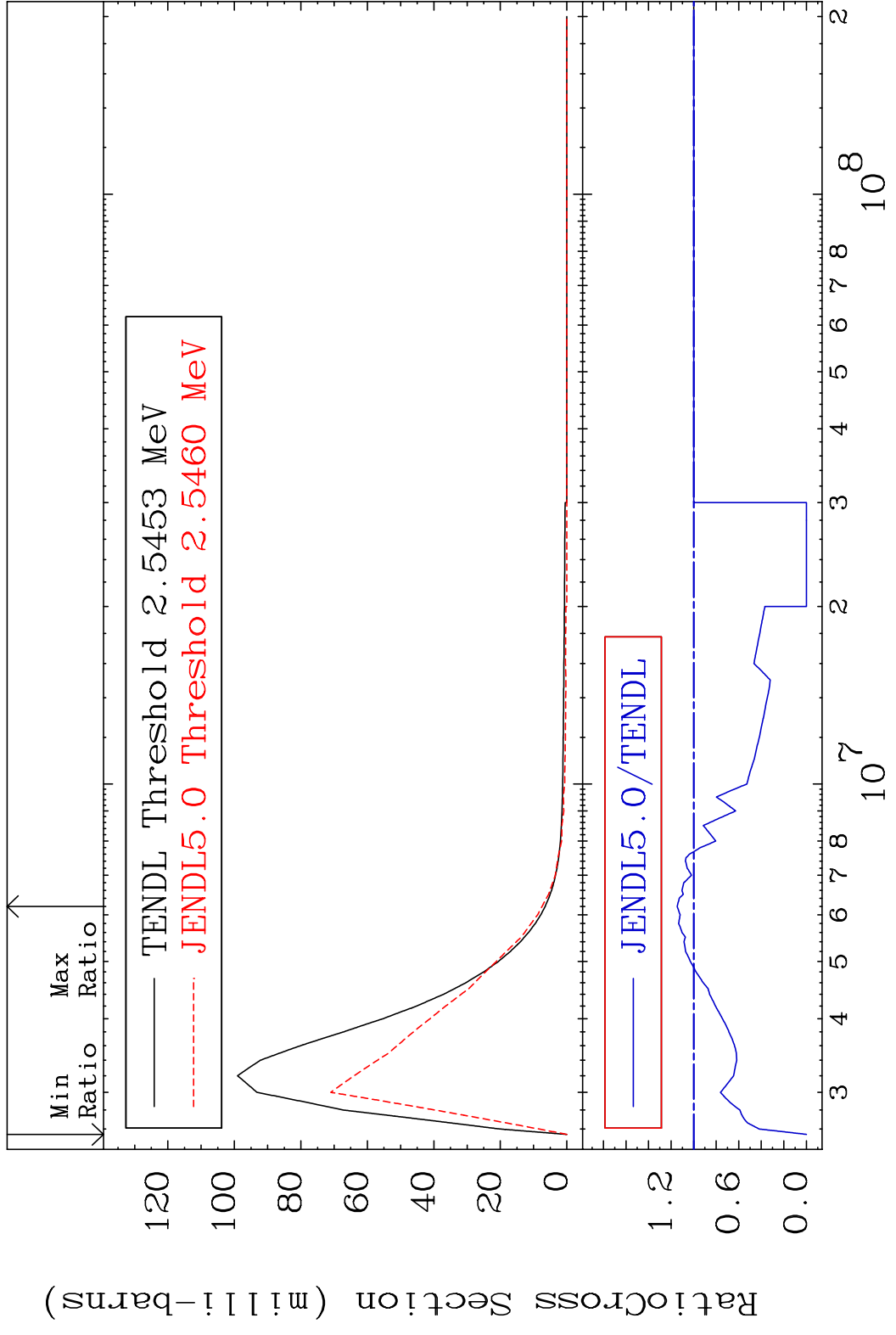


MAT 3443 MT= 60 (n, n') Level 34-Se-80
 Cross Section -100.0 To 121.4 %

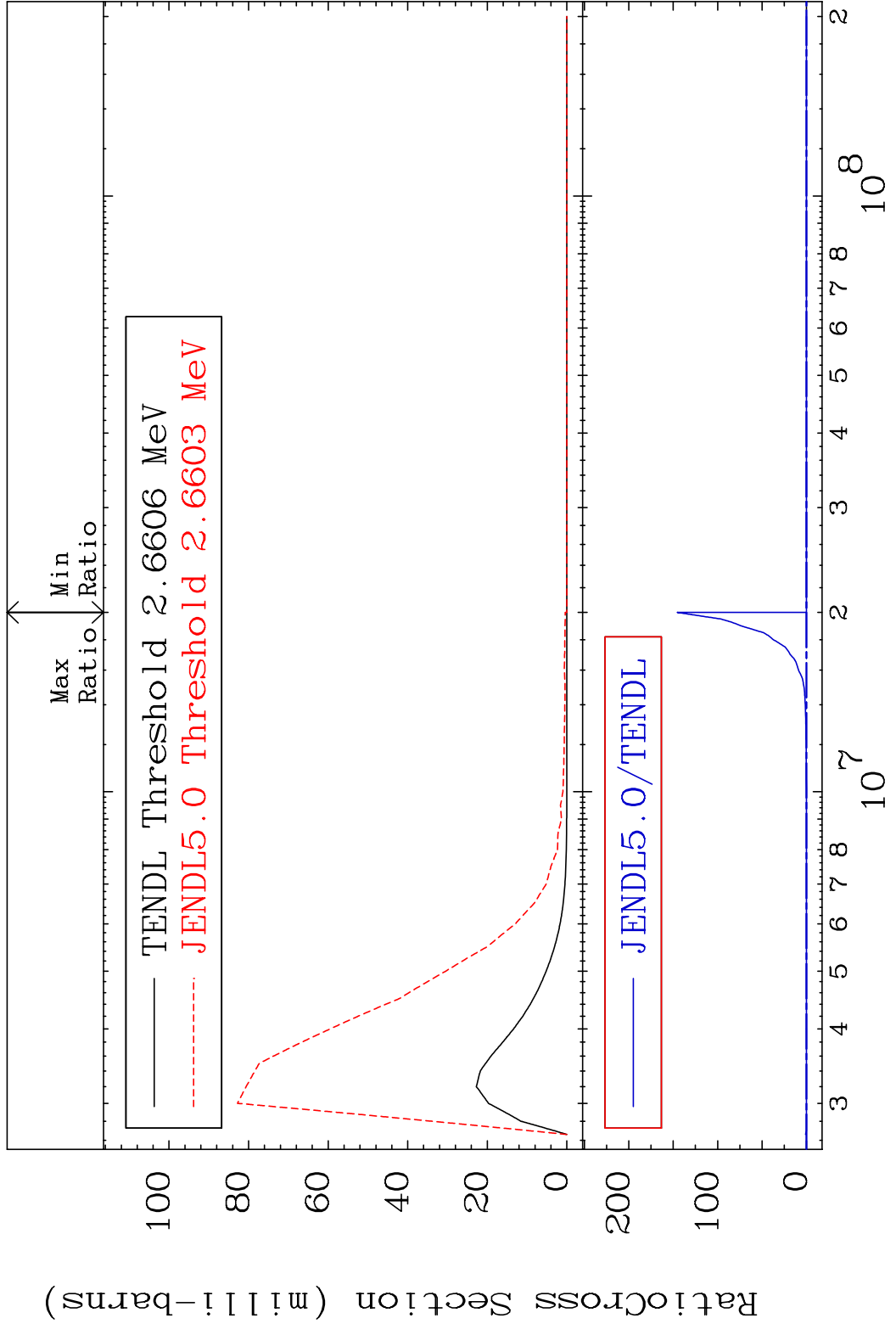


18 Incident Energy (eV) 34-Se-80

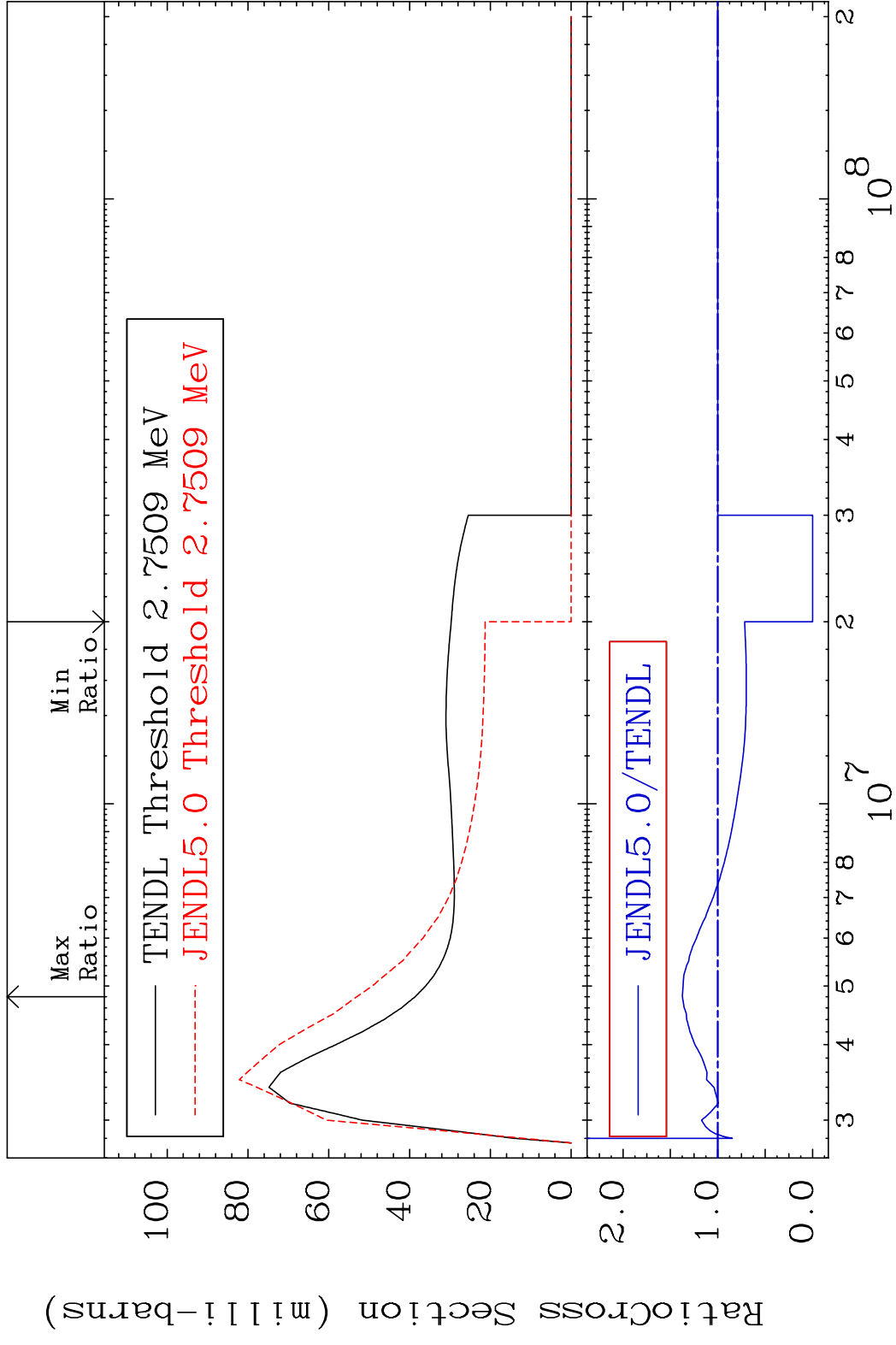
MAT 3443 MT= 61 (n,n') Level 34-Se-80
 Cross Section -100.0 To 14.60 %



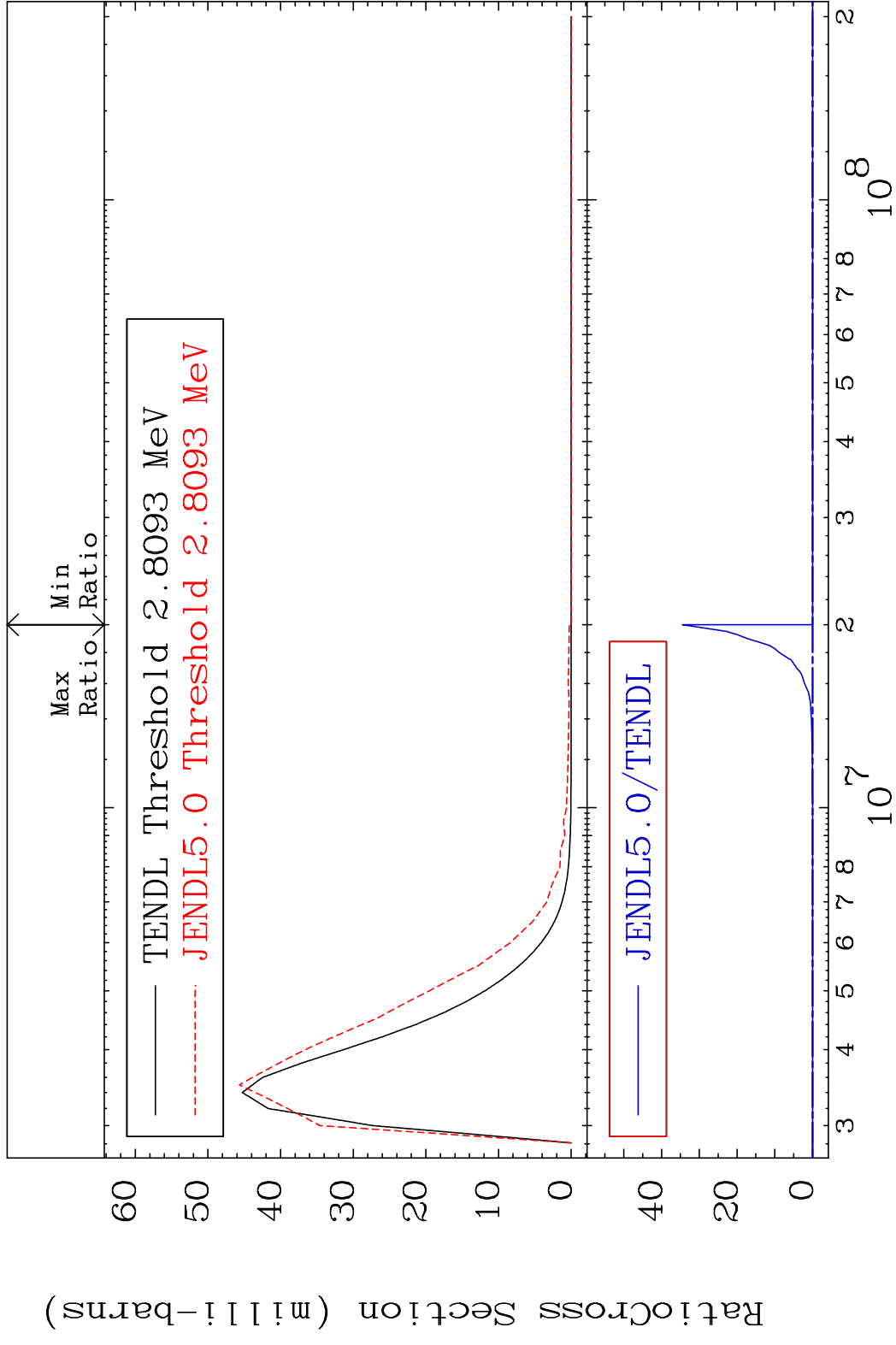
MAT 3443 MT= 62 (n, n') Level 34-Se-80
 Cross Section -100.0 To 9999. %



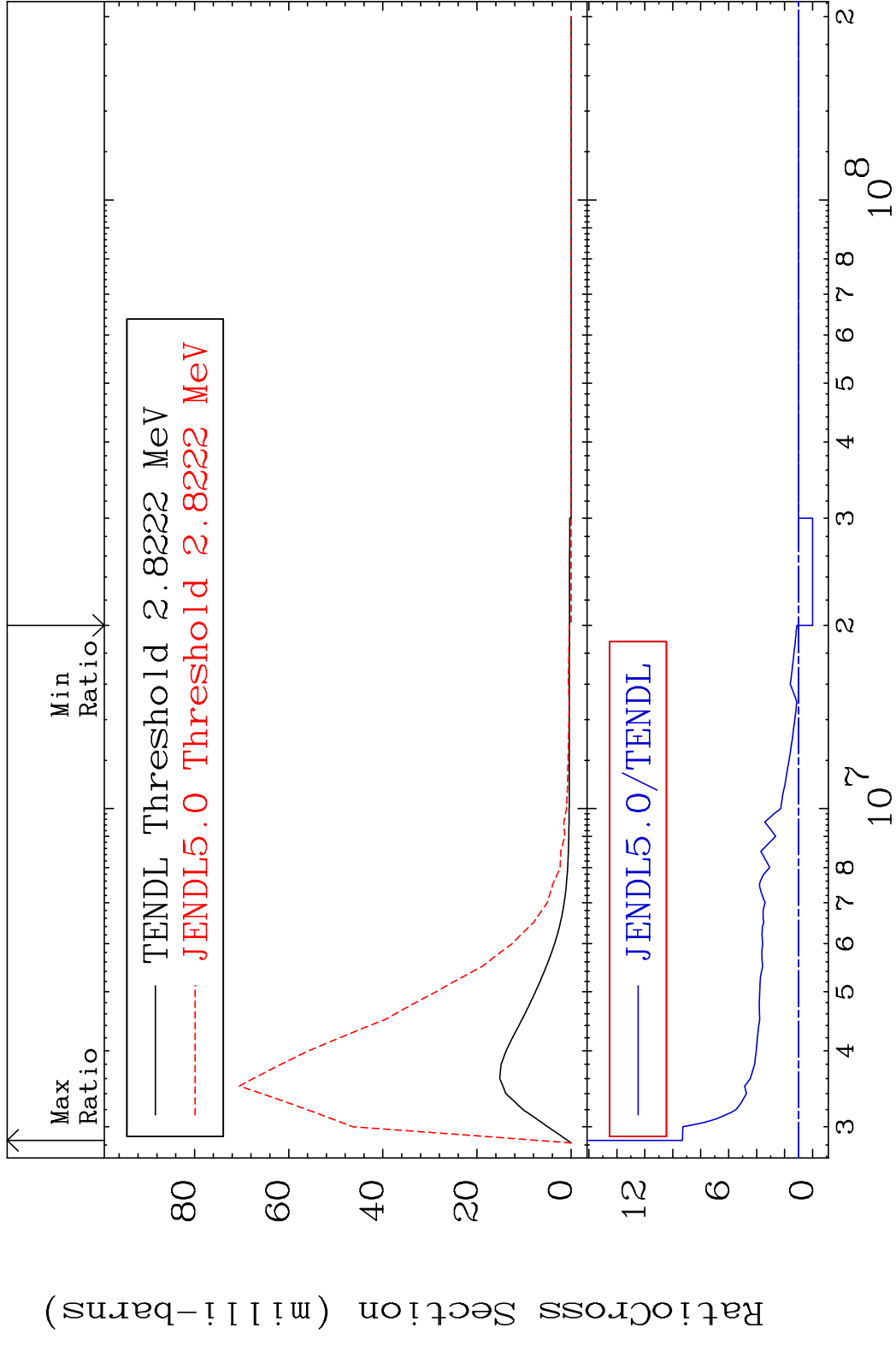
MAT 3443 MT= 63 (n, n') Level 34-Se-80
 Cross Section -100.0 To 37.39 %



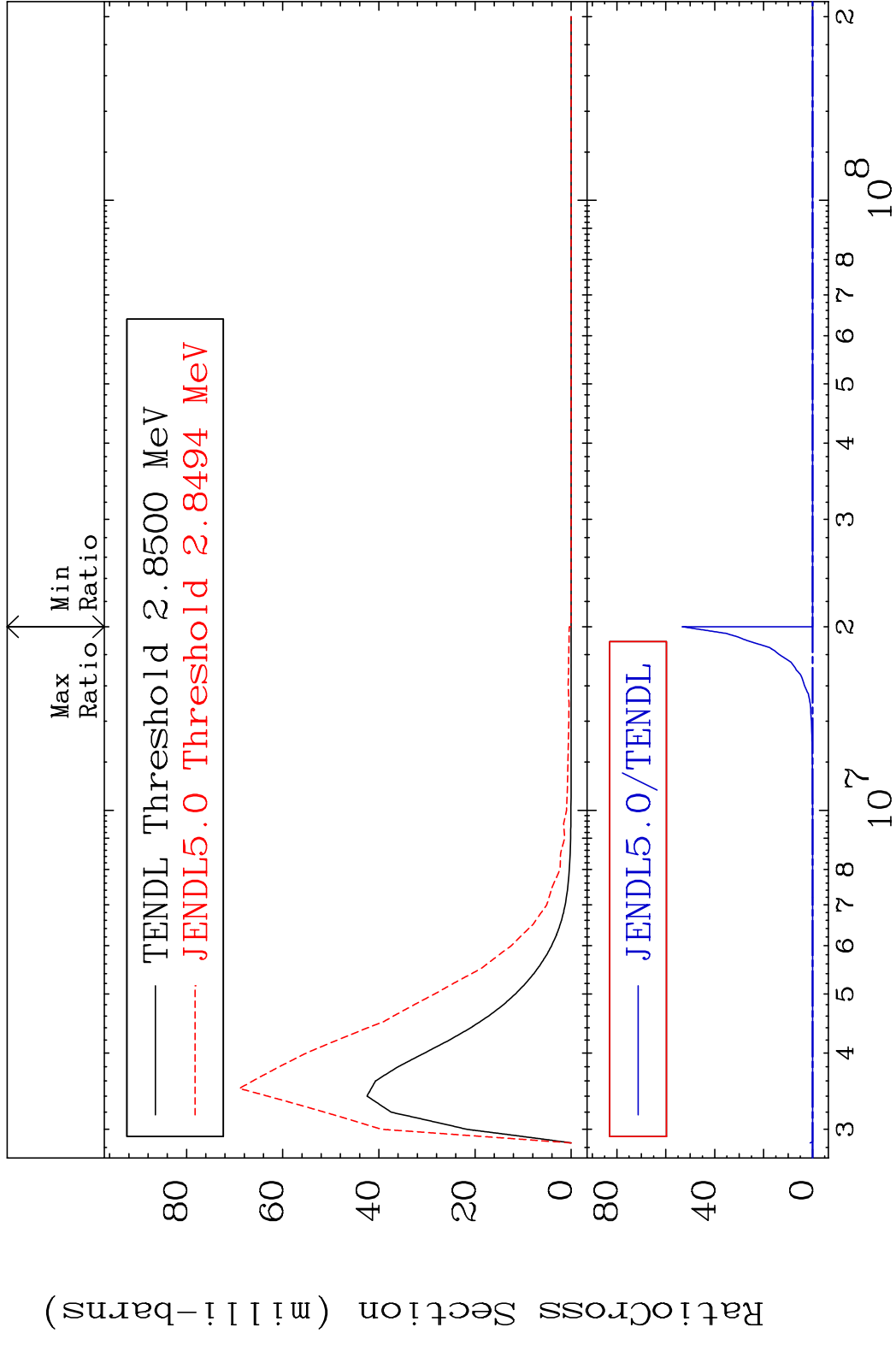
MAT 3443 MT= 64 (n, n') Level 34-Se-80
 Cross Section -100.0 To 9999. %



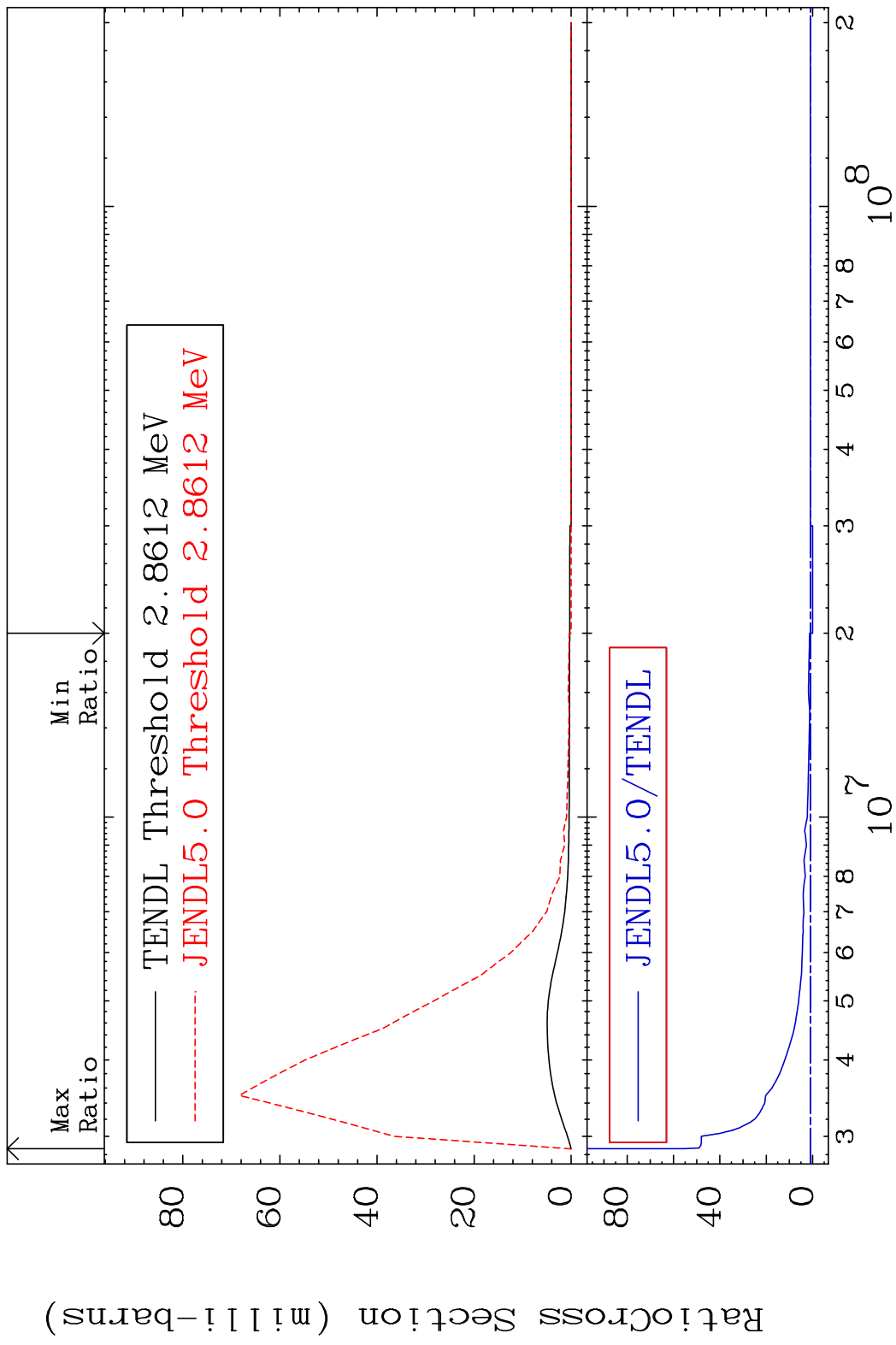
MAT 3443 MT= 65 (n,n') Level 34-Se-80
 Cross Section -100.0 To 831.5 %



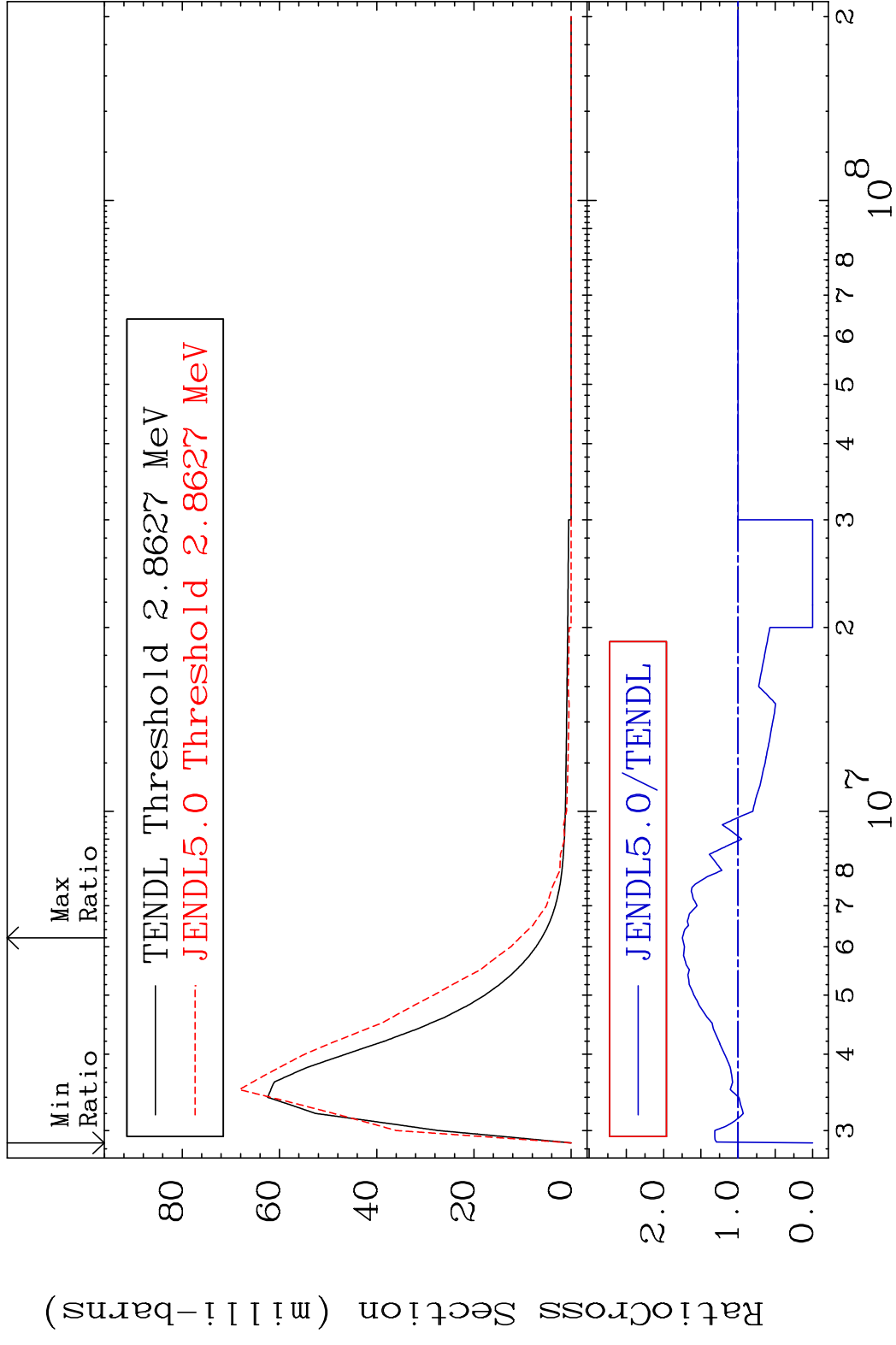
MAT 3443 MT= 66 (n, n') Level 34-Se-80
 Cross Section -100.0 To 9999. %



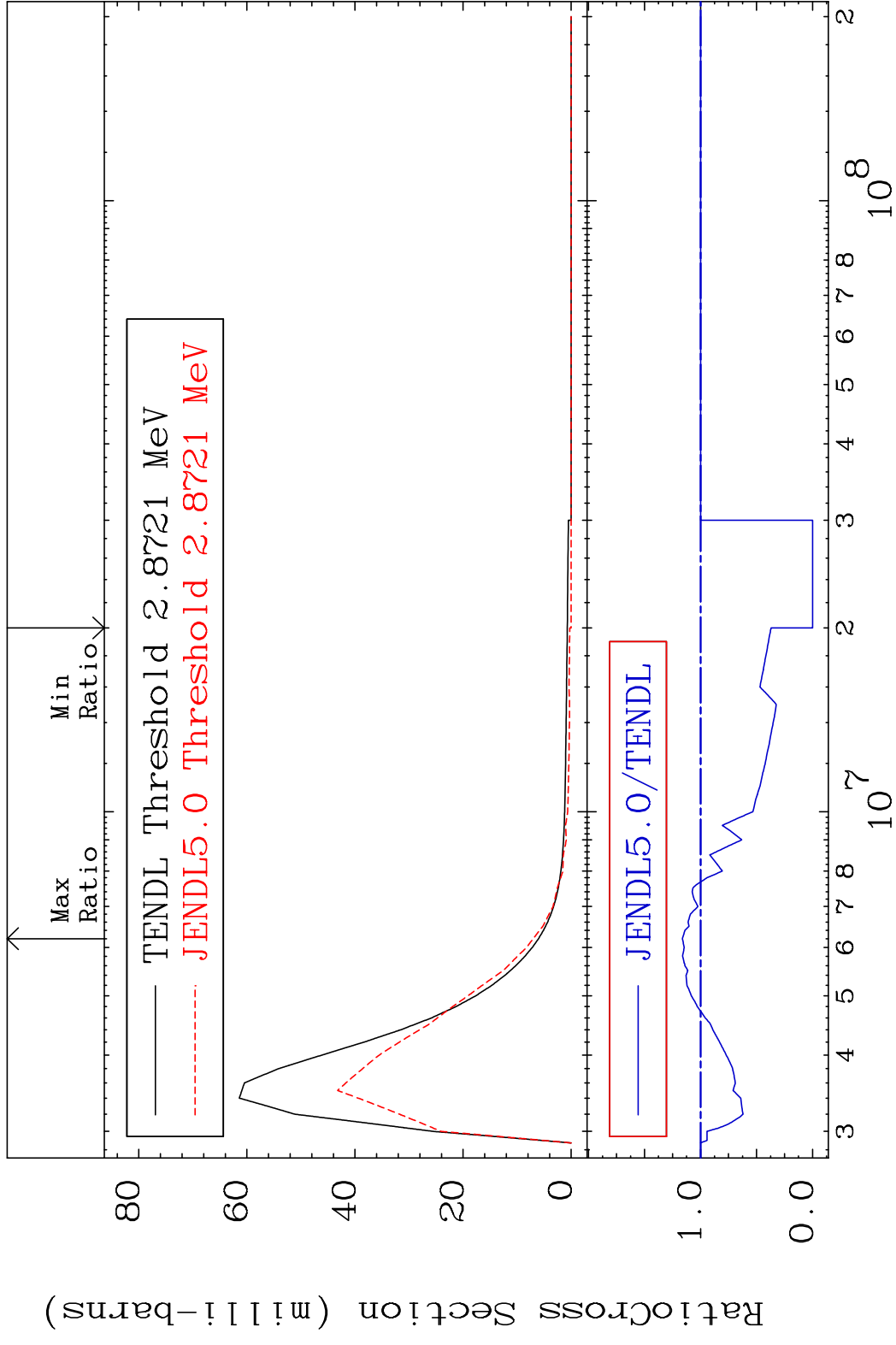
MAT 3443 MT= 67 (n, n') Level 34-Se-80
 Cross Section -100.0 To 5518. %



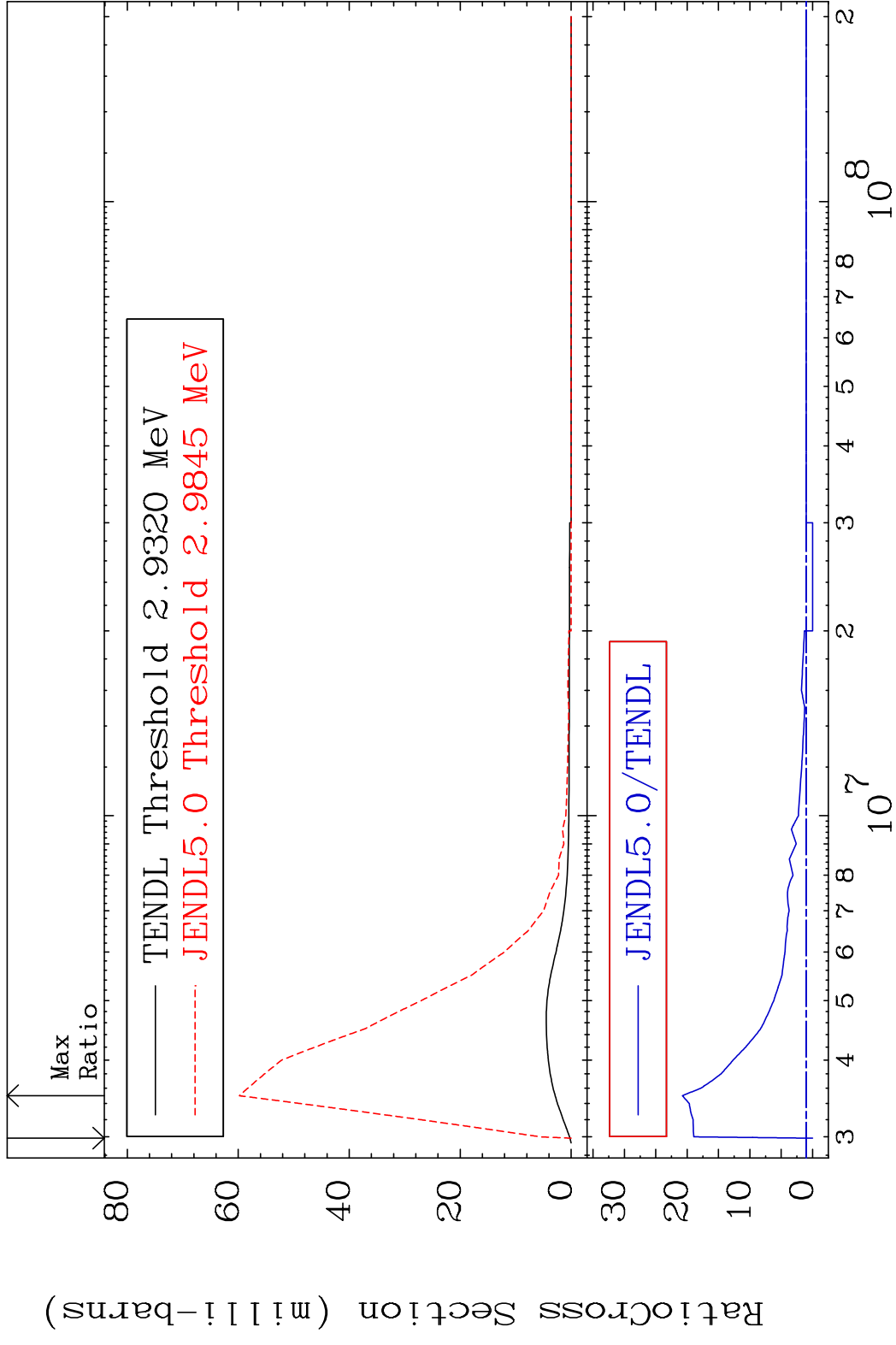
MAT 3443 MT= 68 (n,n') Level 34-Se-80
 Cross Section -100.0 To 74.80 %



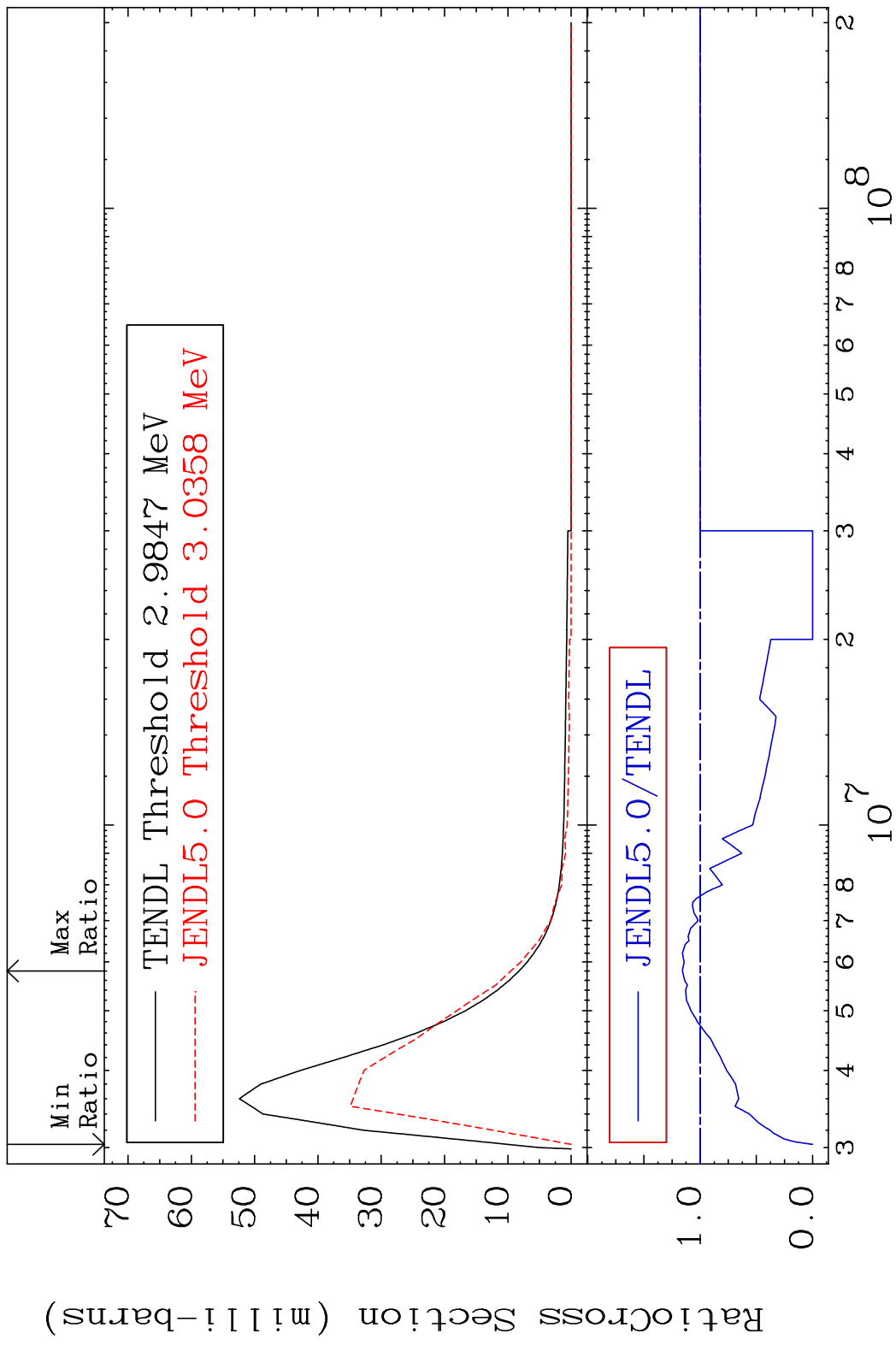
MAT 3443 MT= 69 (n, n') Level 34-Se-80
 Cross Section -100.0 To 16.23 %



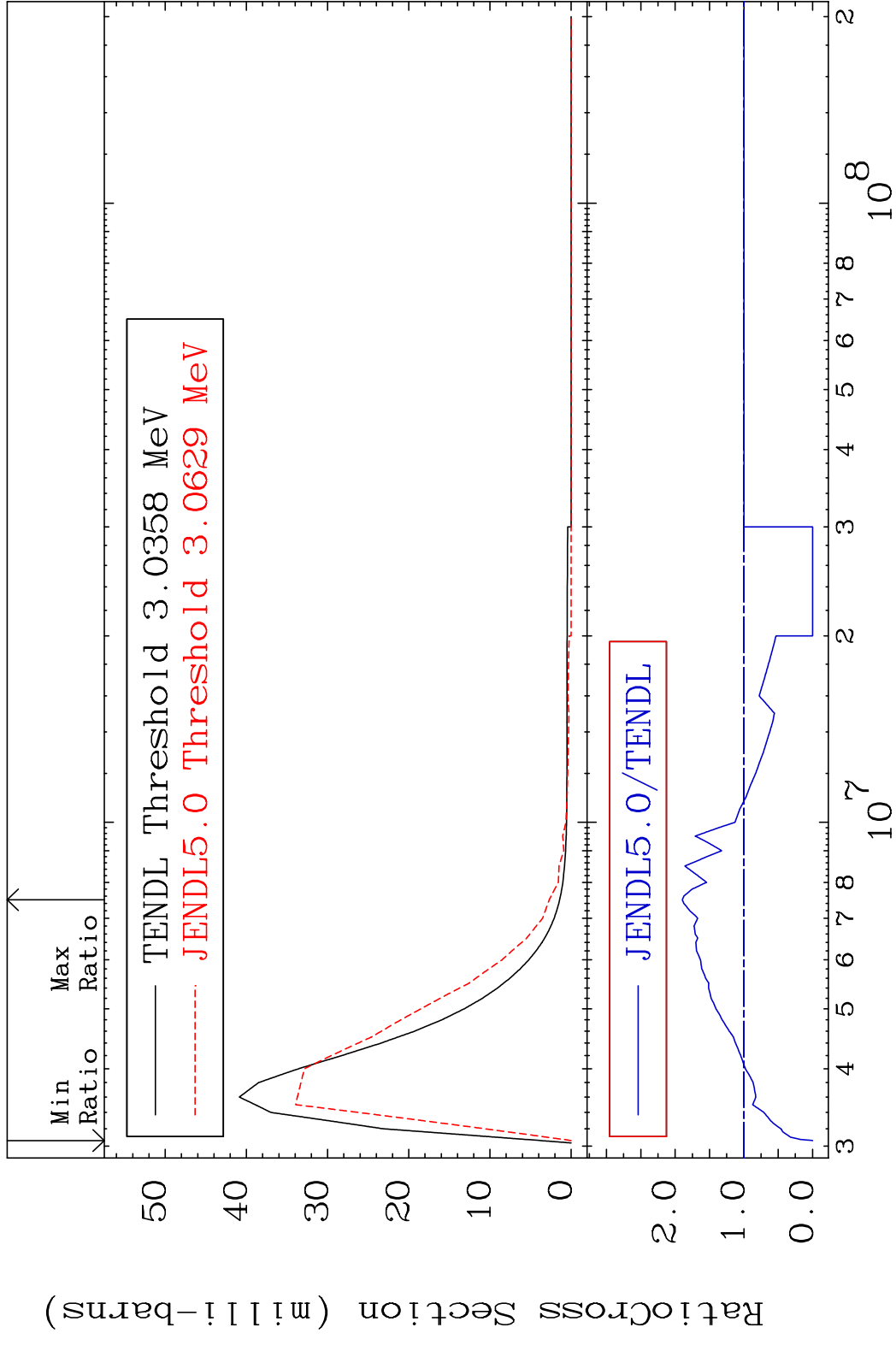
MAT 3443 MT= 70 (n,n') Level 34-Se-80
 Cross Section -100.0 To 1976. %



MAT 3443 MT= 71 (n,n') Level 34-Se-80
 Cross Section -100.0 To 15.84 %

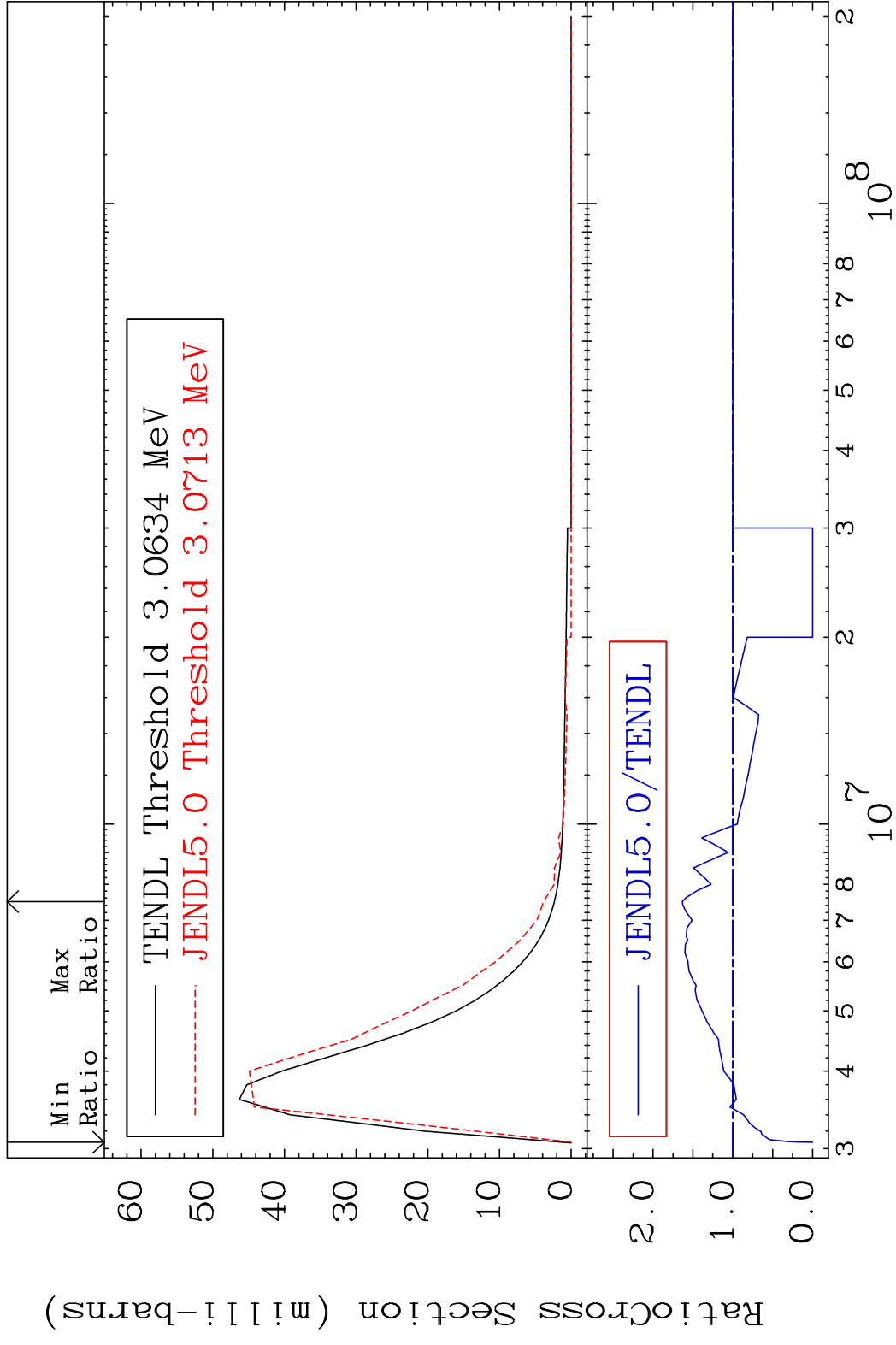


MAT 3443 MT= 72 (n,n') Level 34-Se-80
 Cross Section -100.0 To 89.51 %

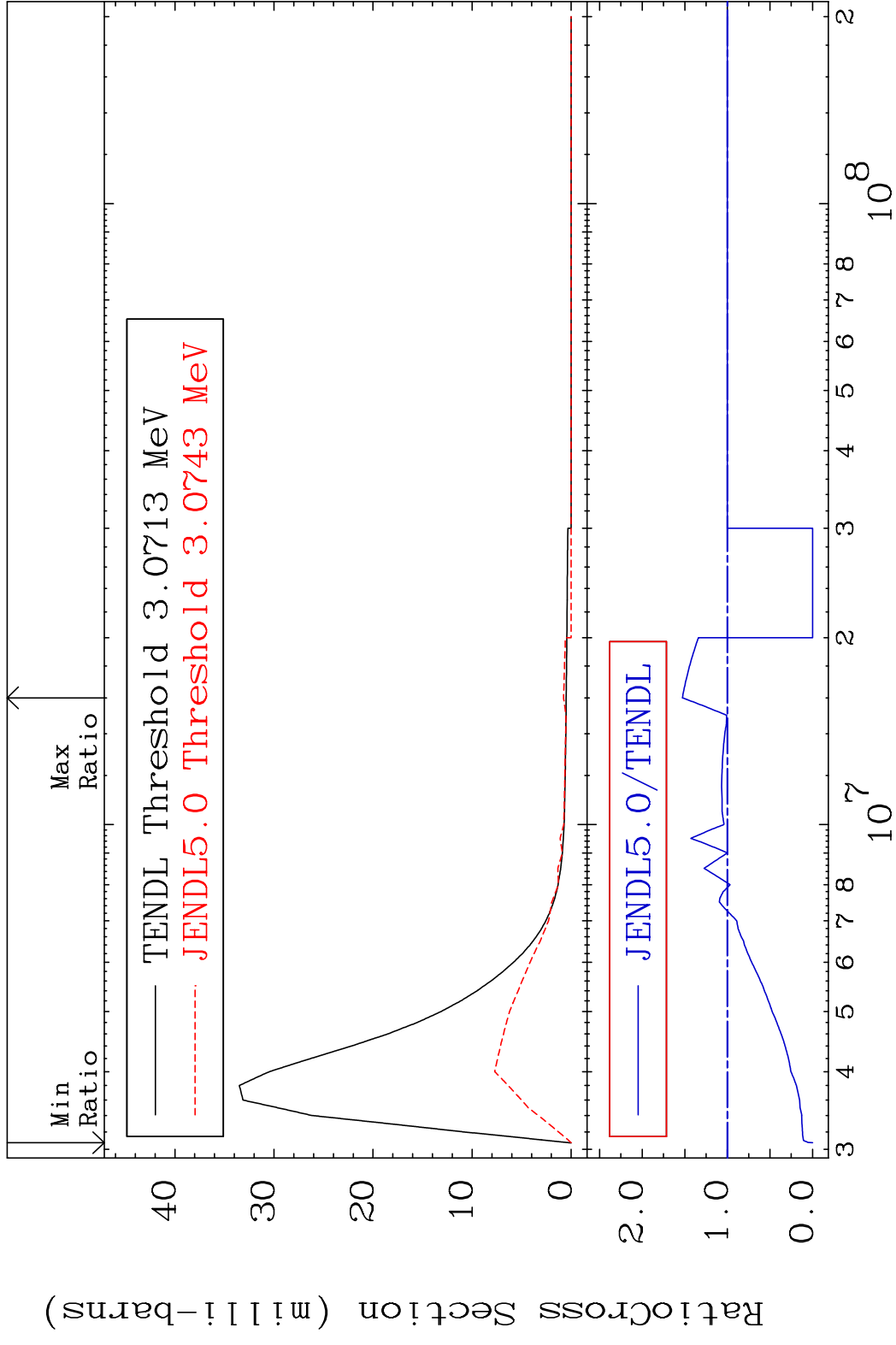


30 Incident Energy (eV) 34-Se-80

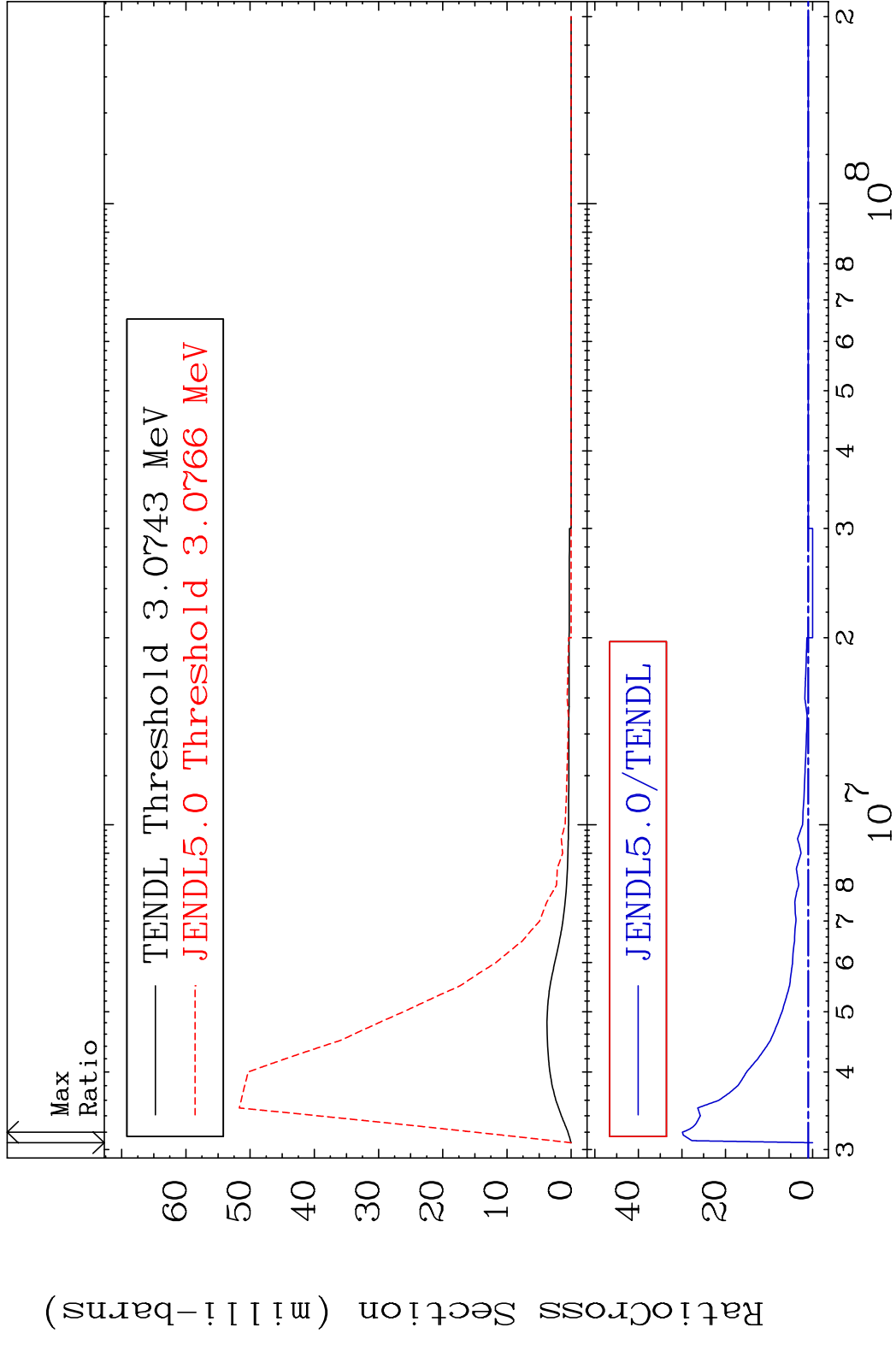
MAT 3443 MT= 73 (n,n') Level 34-Se-80
 Cross Section -100.0 To 63.18 %



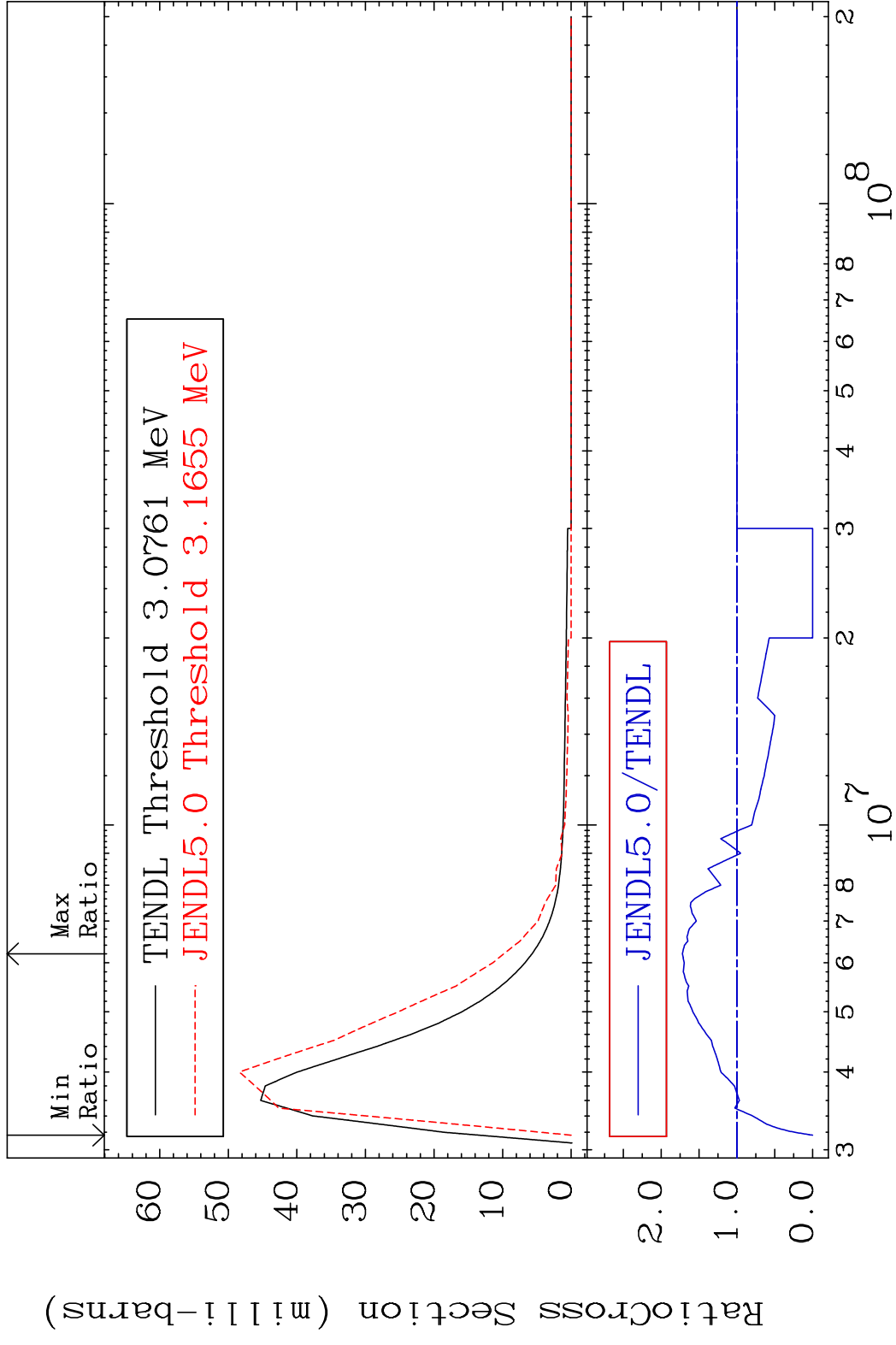
MAT 3443 MT= 74 (n, n') Level 34-Se-80
 Cross Section -100.0 To 52.85 %



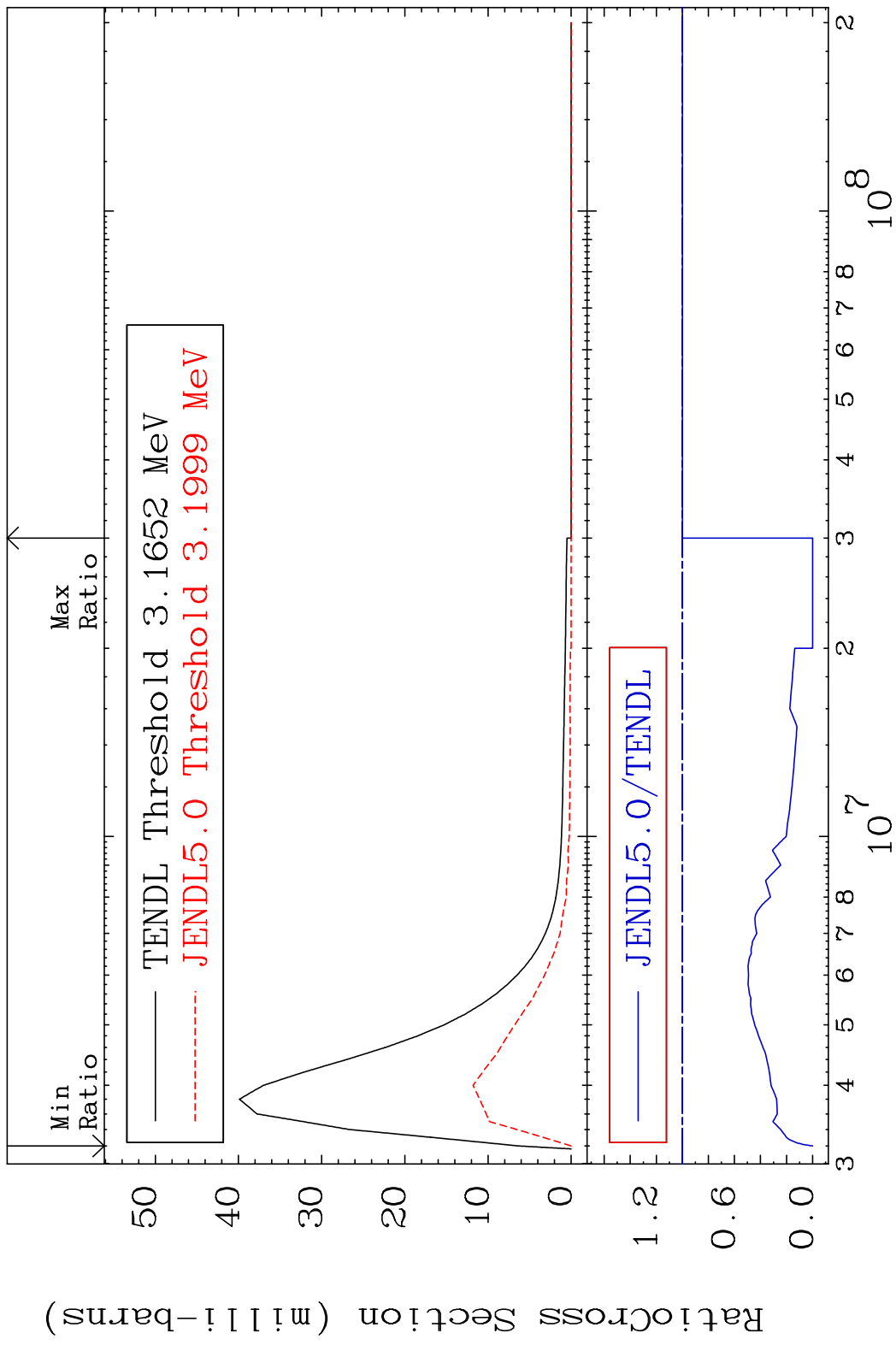
MAT 3443 MT= 75 (n,n') Level 34-Se-80
 Cross Section -100.0 To 2890. %



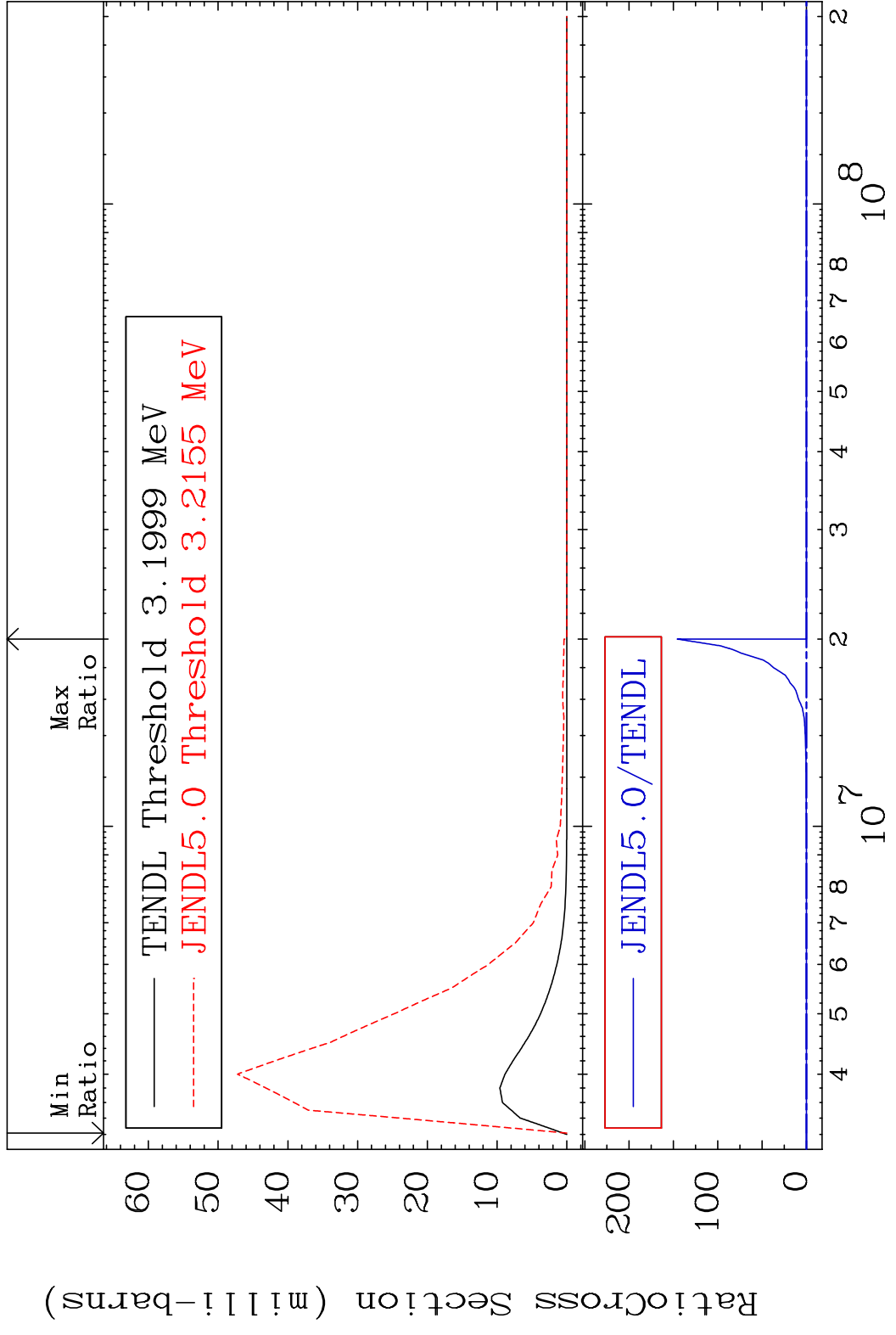
MAT 3443 MT= 76 (n,n') Level 34-Se-80
 Cross Section -100.0 To 72.11 %



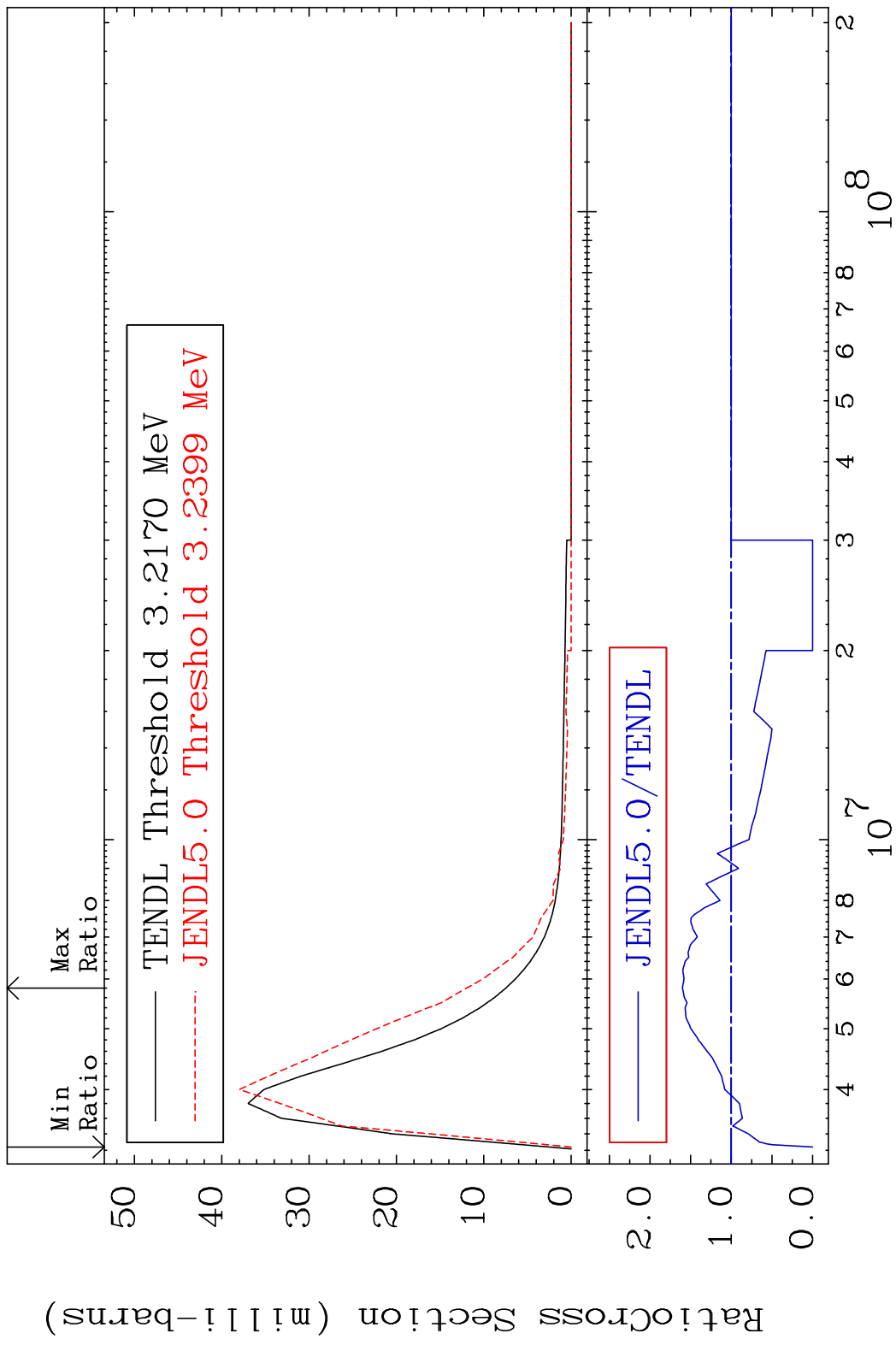
MAT 3443 MT= 77 (n, n') Level 34-Se-80
 Cross Section -100.0 To 0.000 %



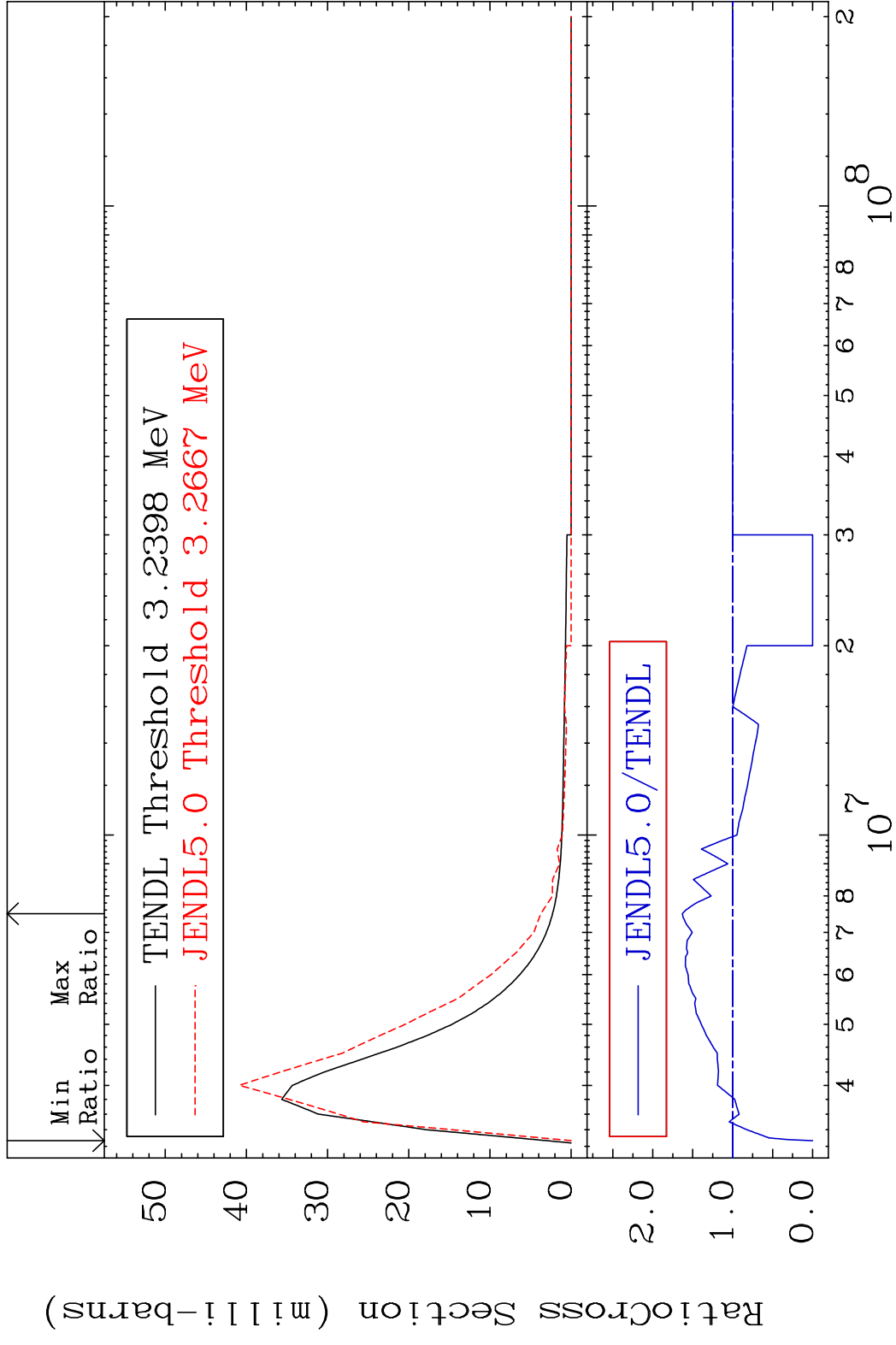
MAT 3443 MT= 78 (n, n') Level 34-Se-80
 Cross Section -100.0 To 9999. %



MAT 3443 MT= 79 (n,n') Level 34-Se-80
 Cross Section -100.0 To 60.21 %



MAT 3443 MT= 80 (n,n') Level 34-Se-80
 Cross Section -100.0 To 62.99 %

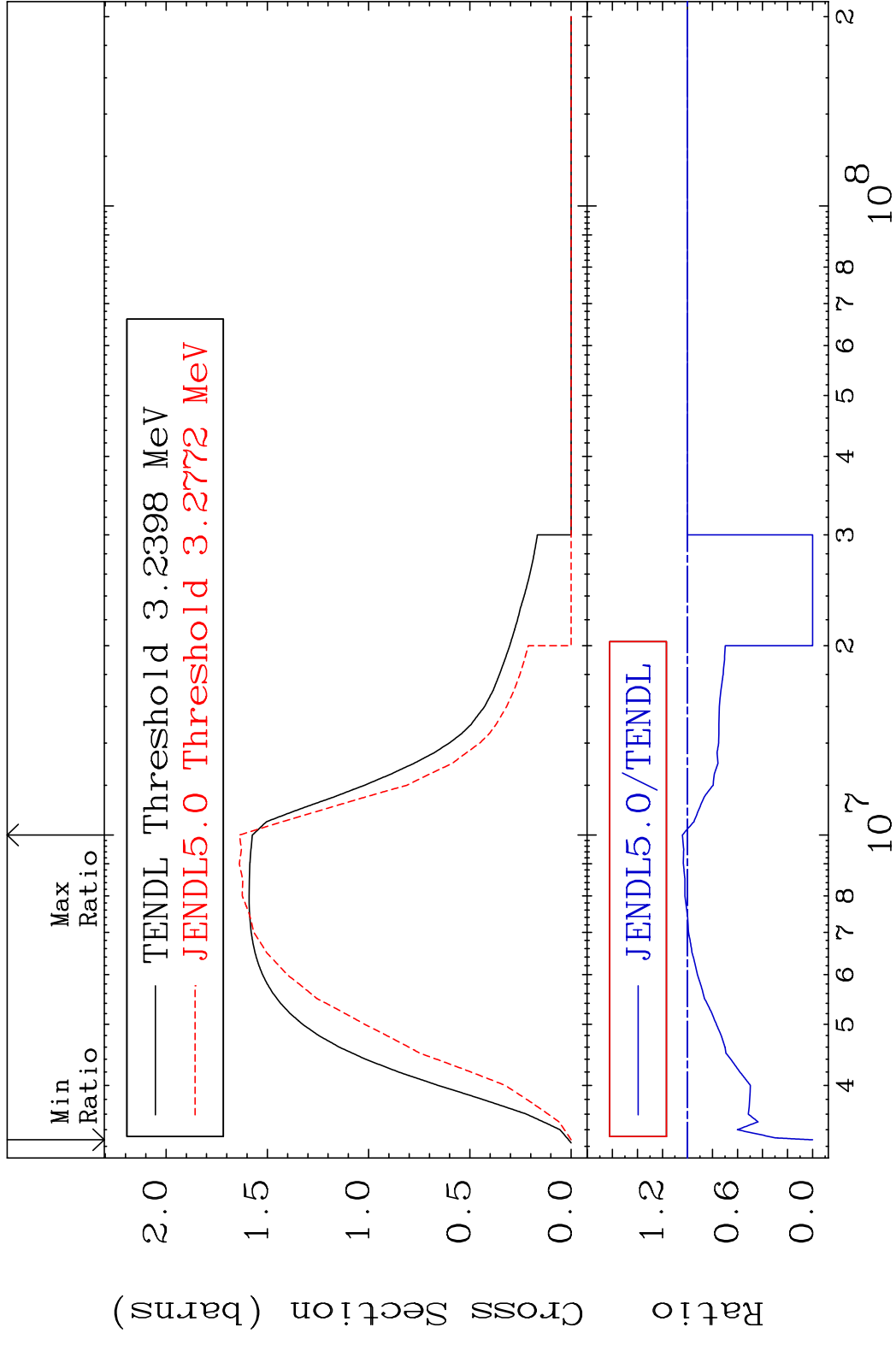


MAT 3443

(n,n') Continuum

³⁴Se-80

Cross Section -100.0 To 4.086 %



39

Incident Energy (eV)

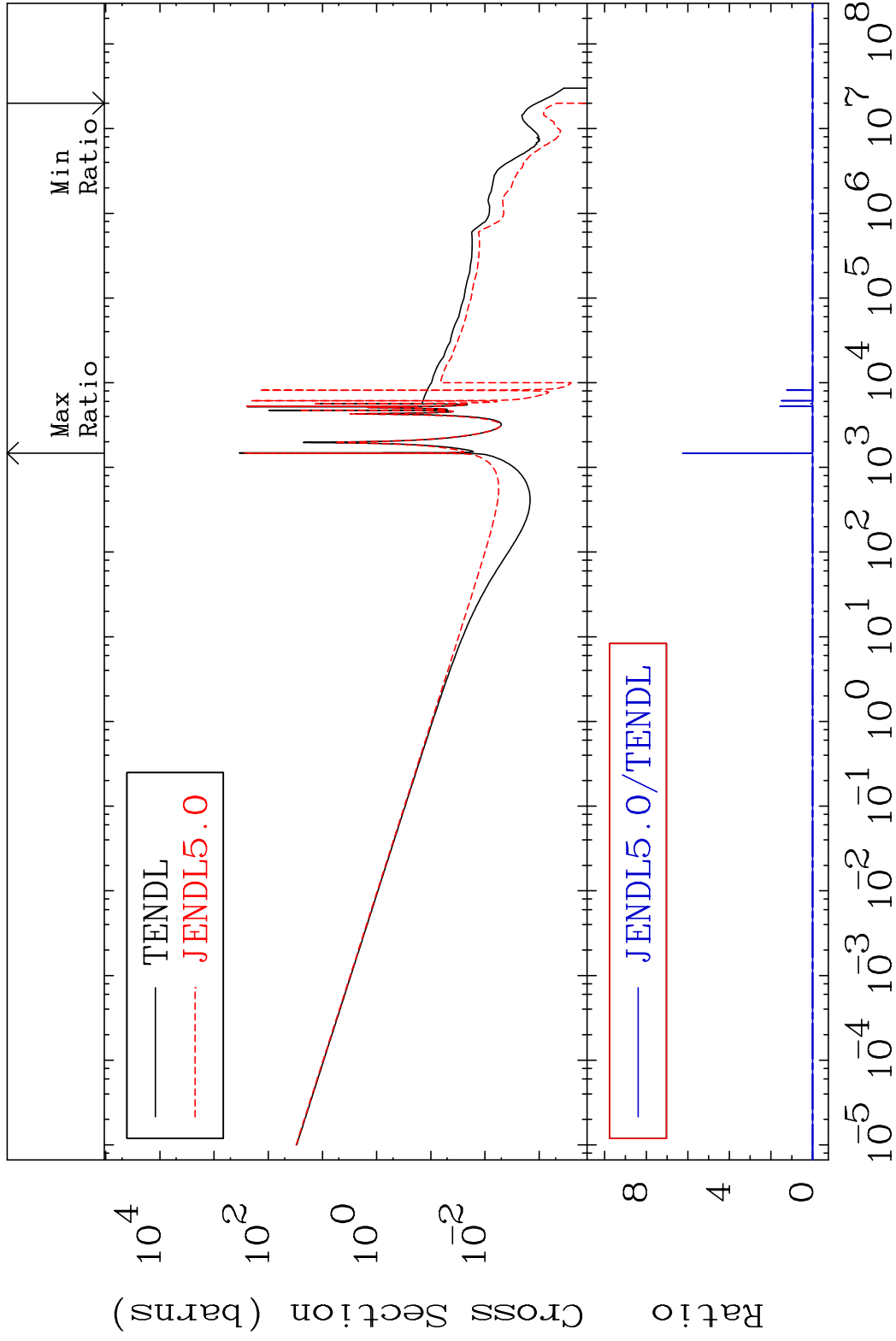
³⁴Se-80

MAT 3443

(n, γ)

34-Se-80

Cross Section -100.0 To 9999. %



40

Incident Energy (eV)

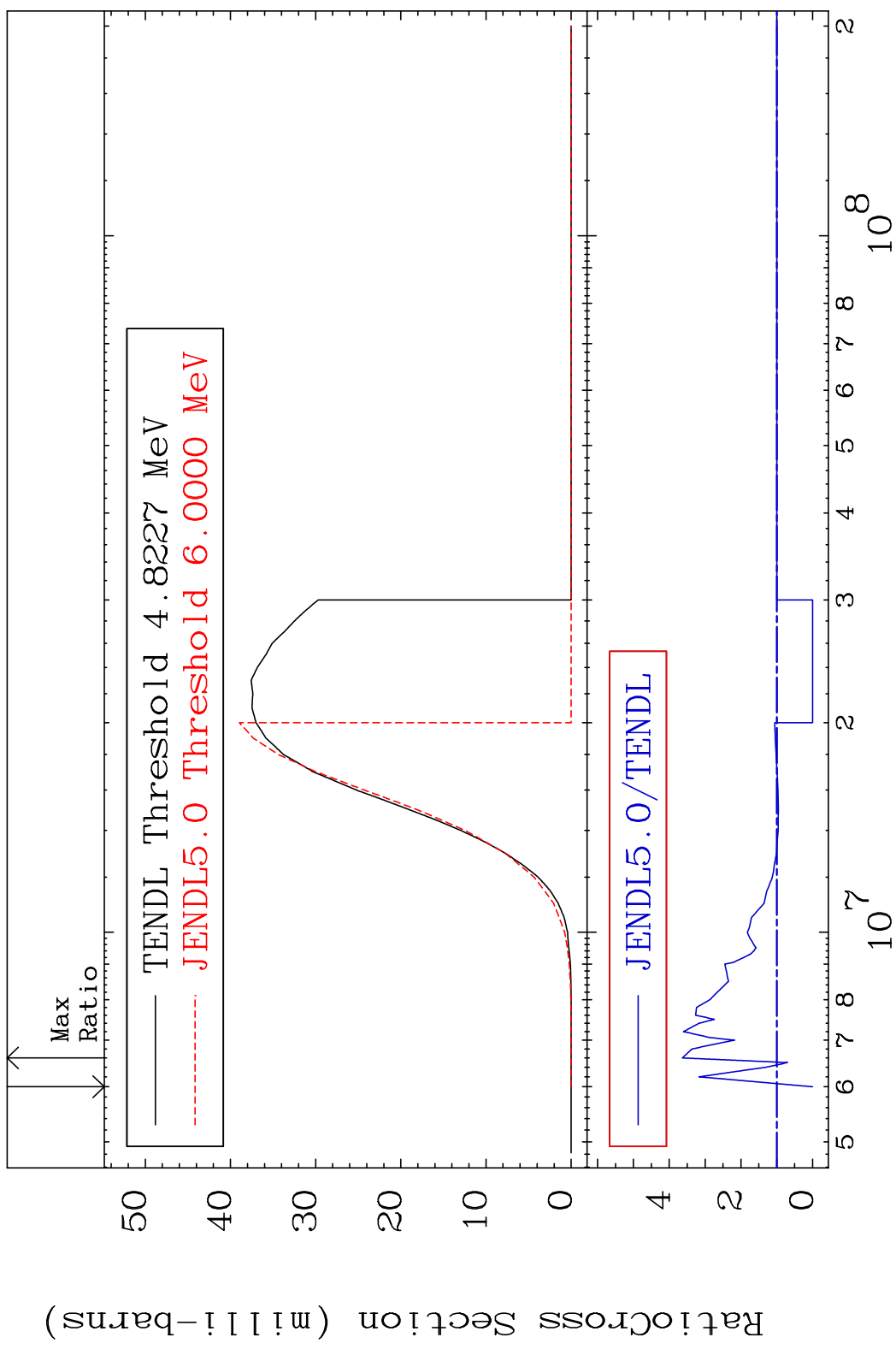
34-Se-80

MAT 3443

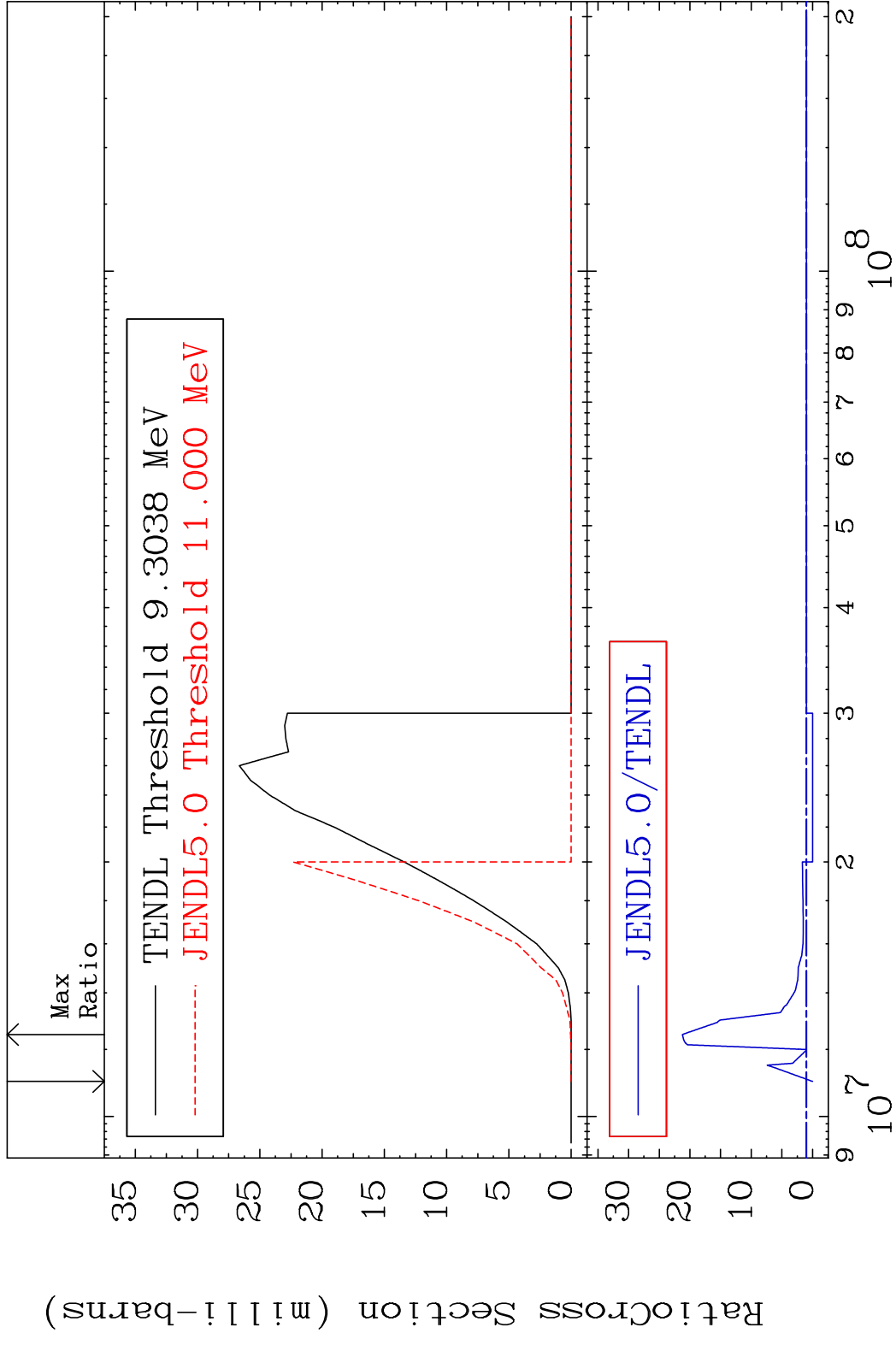
(n,p)

34-Se-80

Cross Section -100.0 To 263.4 %



MAT 3443 (n,d) 34-Se-80
 Cross Section -100.0 To 2024. %



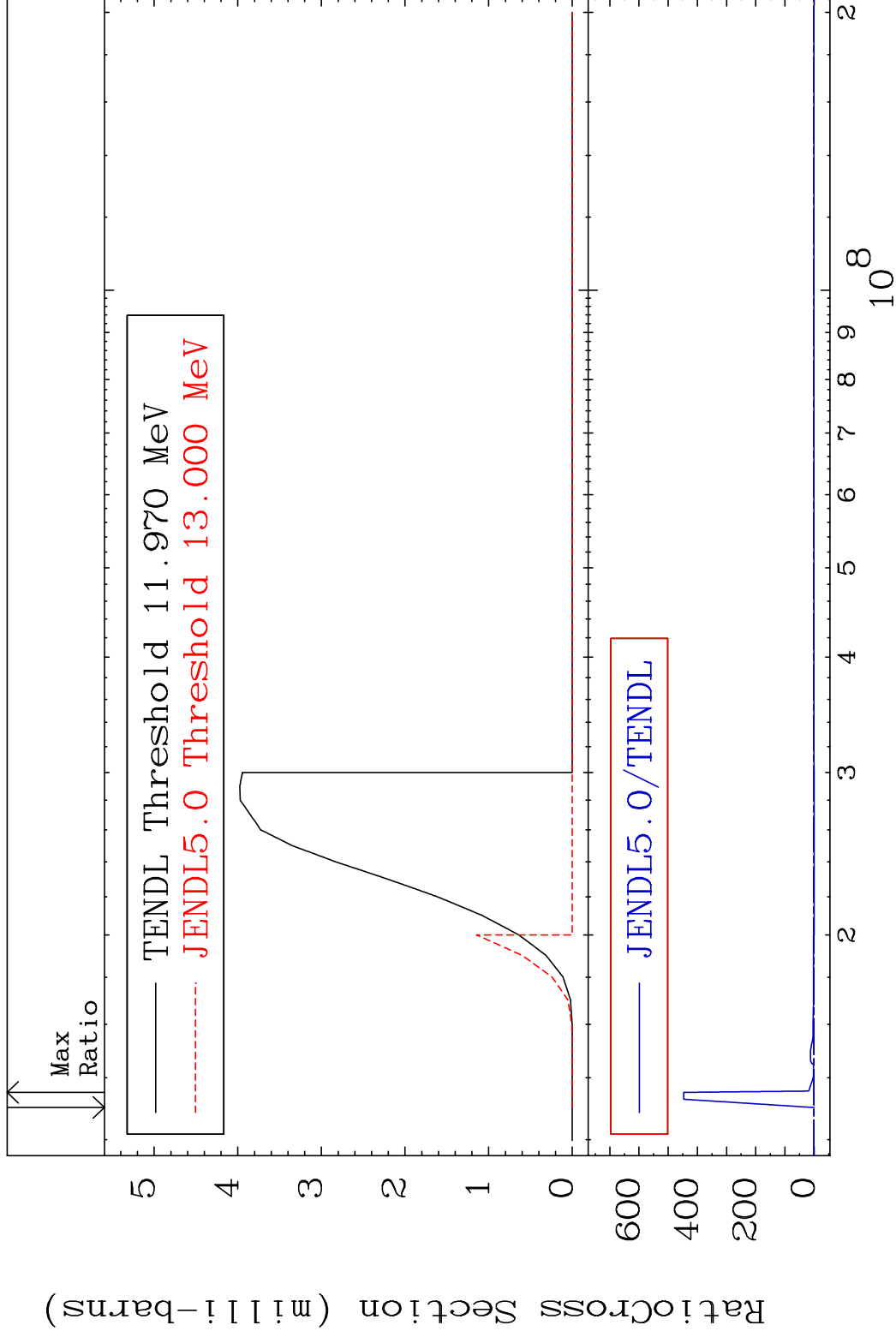
42 34-Se-80

MAT 3443

(n, t)

34-Se-80

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

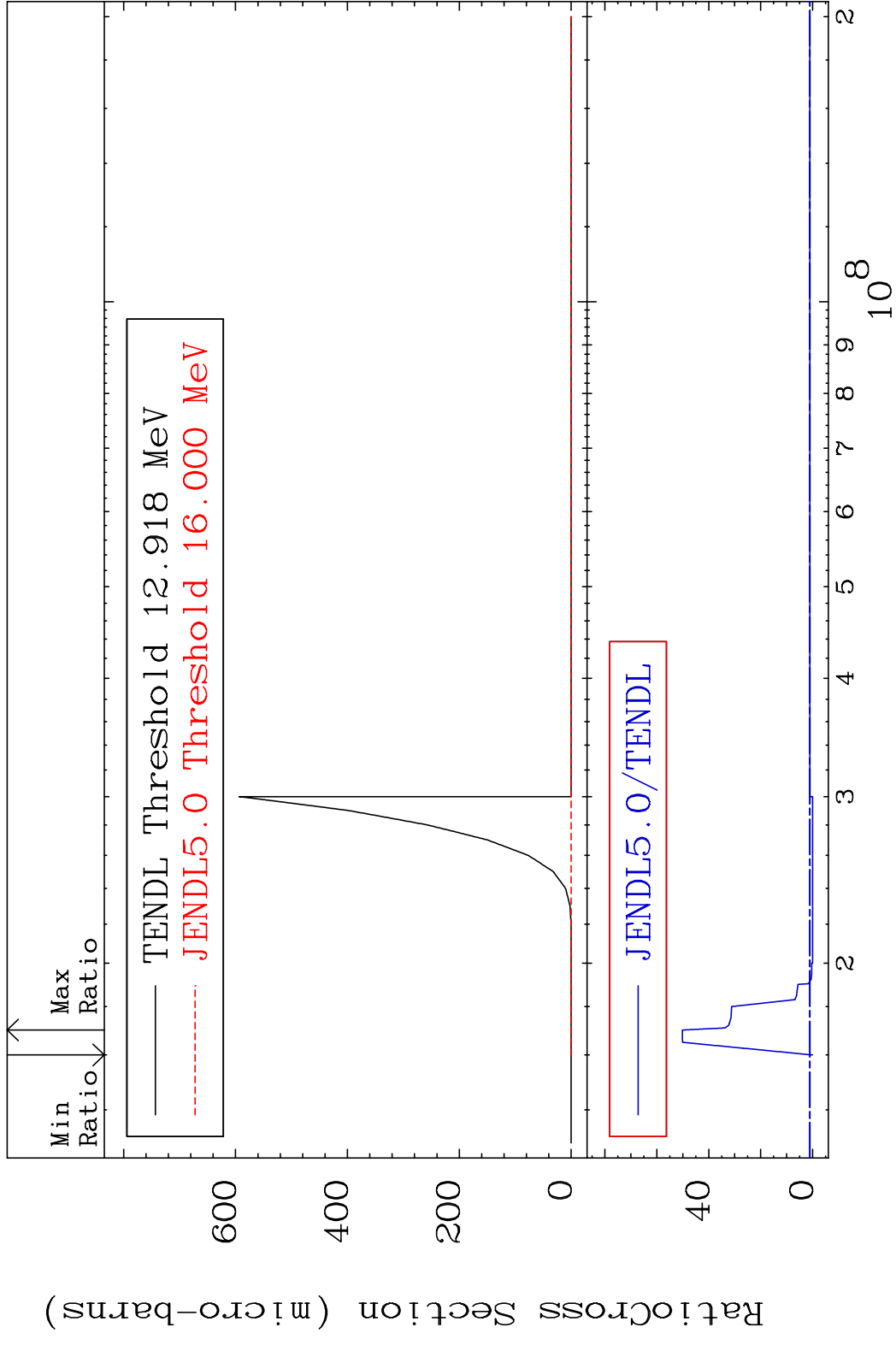
34-Se-80

MAT 3443

(n, He-3)

34-Se-80

Cross Section -100.0 To 4918. %



44

Incident Energy (eV)

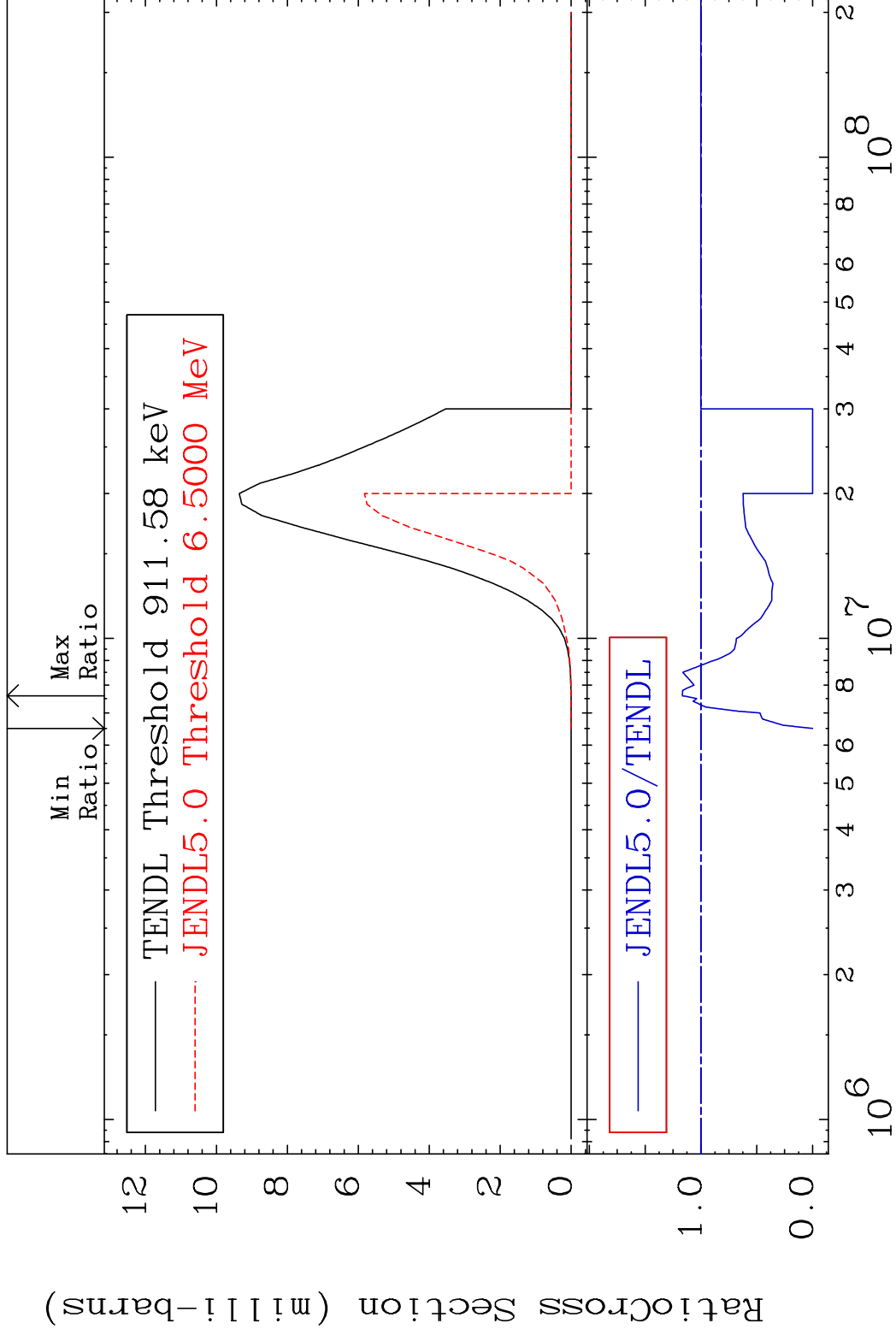
34-Se-80

MAT 3443

(n, α)

³⁴Se-80

Cross Section -100.0 To 16.67 %

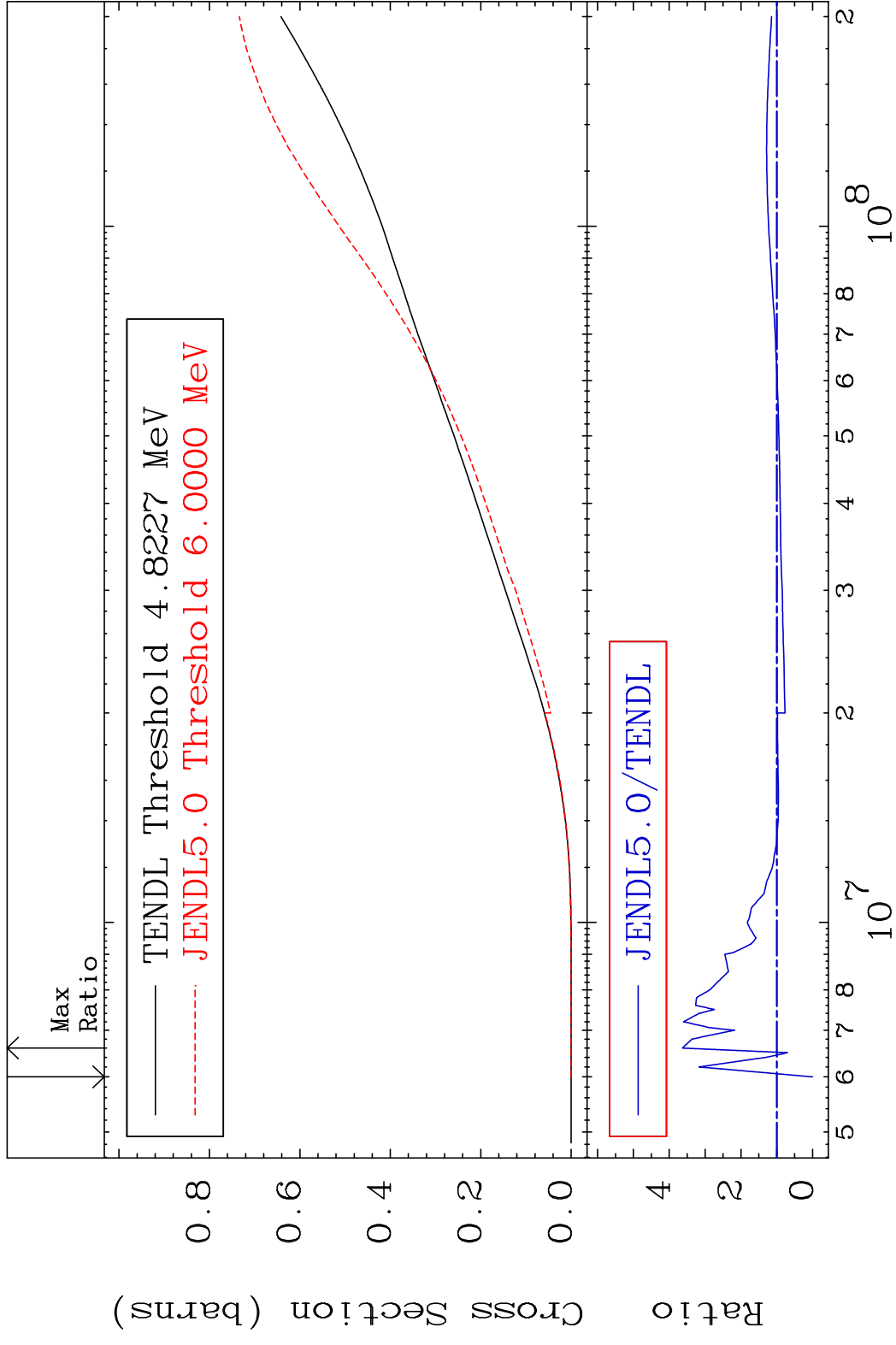


MAT 3443

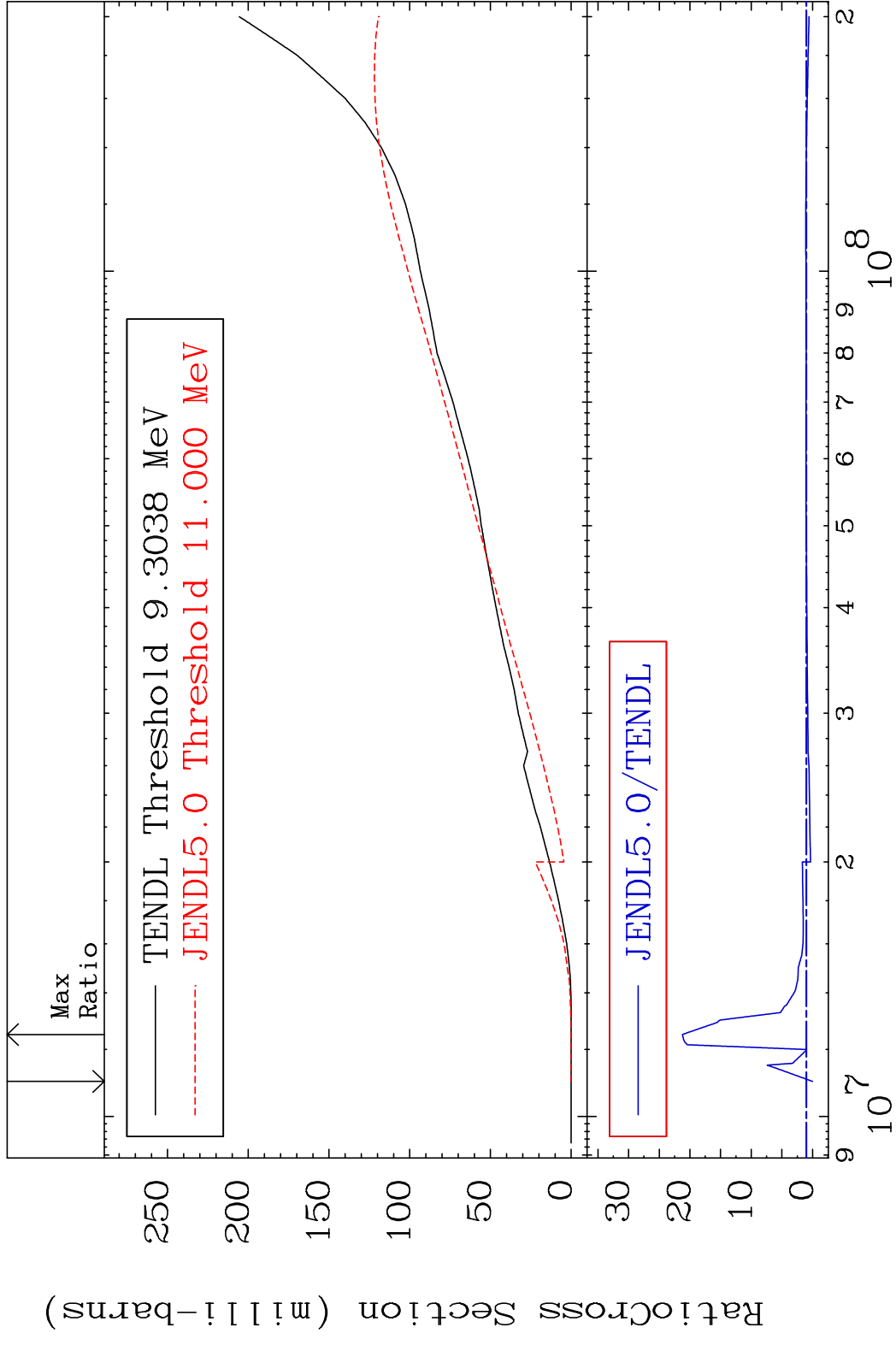
Hydrogen Production

³⁴Se-80

Cross Section -100.0 To 263.4 %

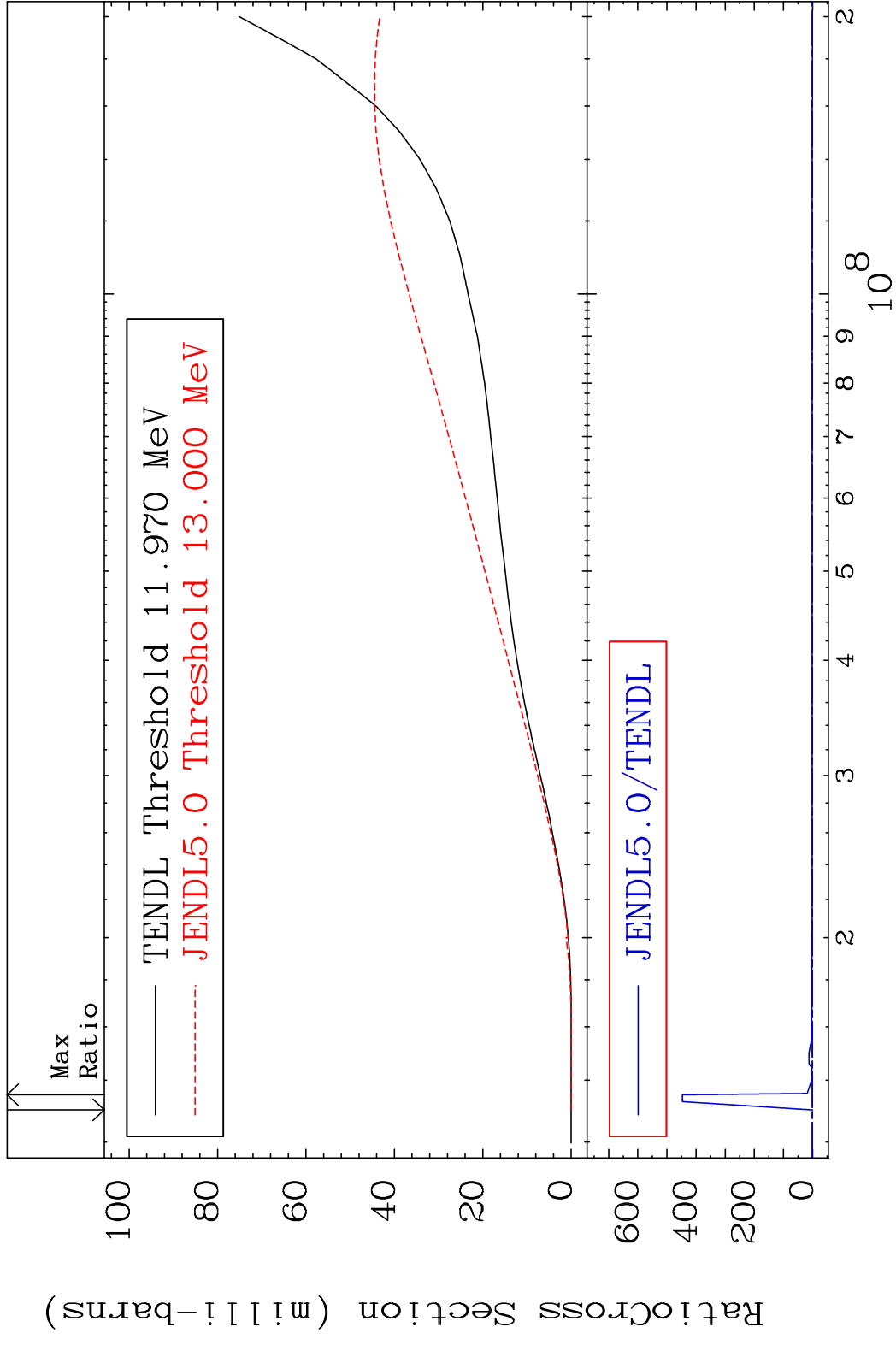


MAT 3443 Deuterium Production 34-Se-80
 Cross Section -100.0 To 2024. %



47 34-Se-80

MAT 3443 Tritium Production 34-Se-80
 Cross Section -100.0 To 9999. %

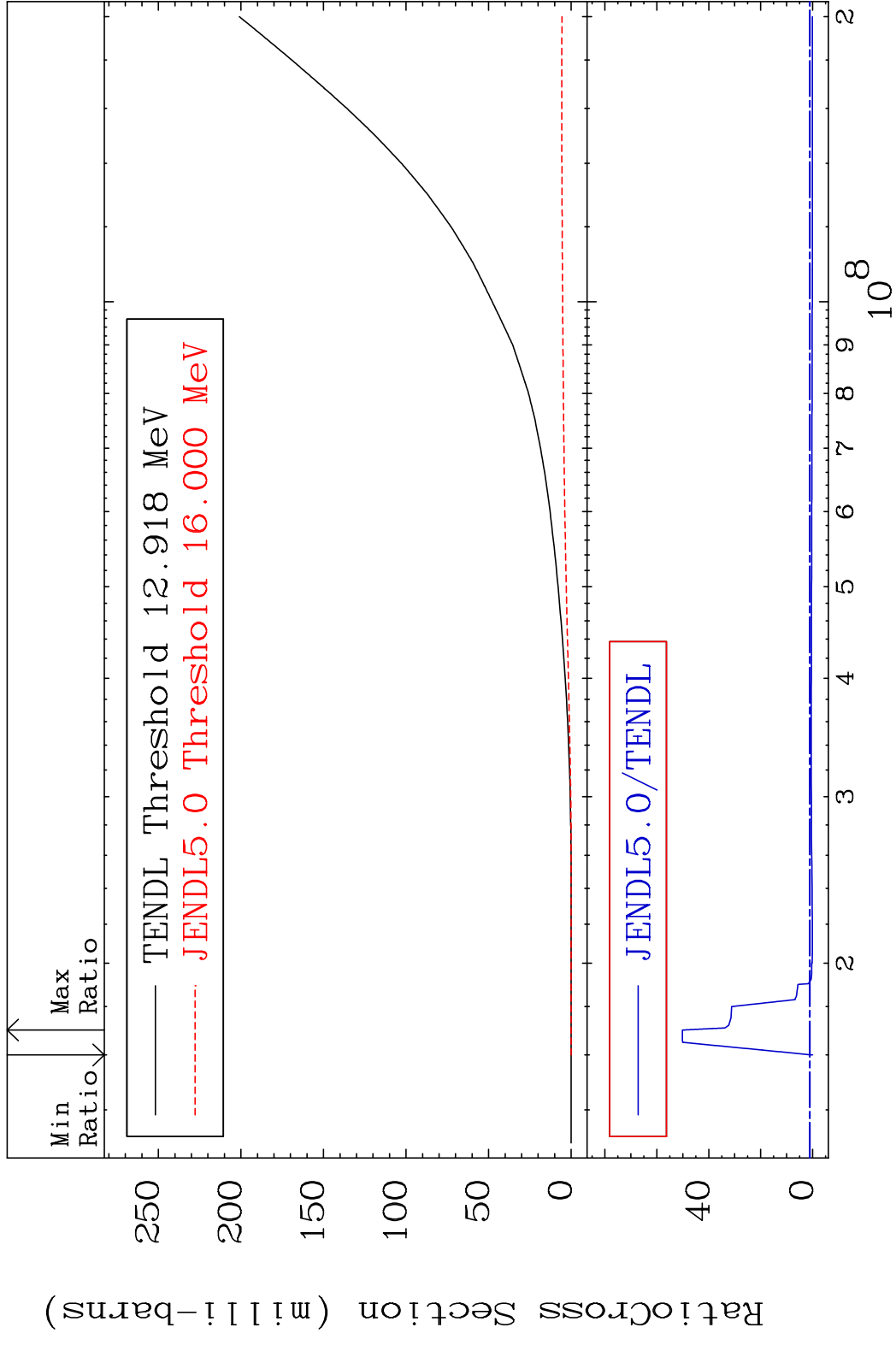


MAT 3443

He-3 Production

34-Se-80

Cross Section -100.0 To 4918. %

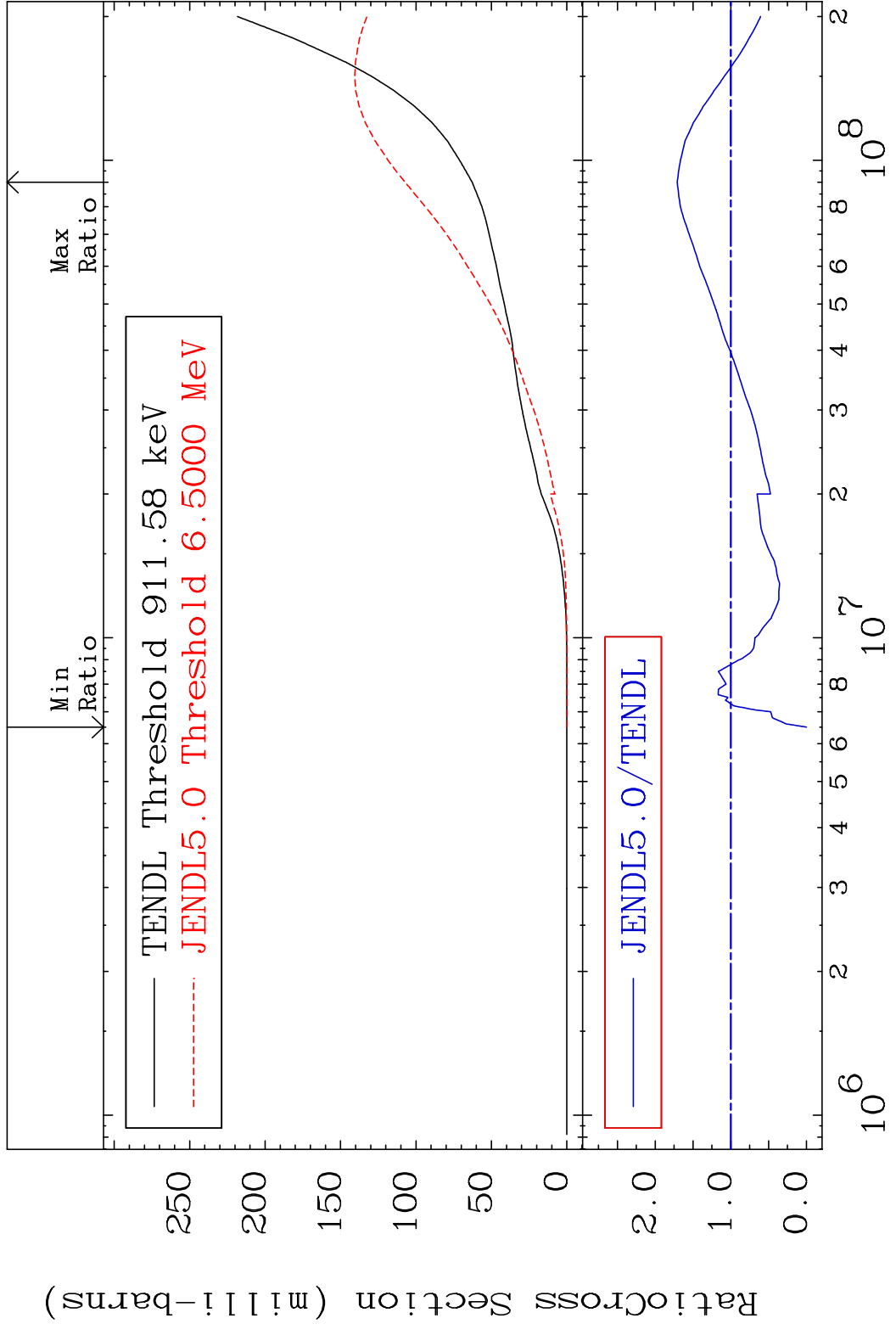


49

Incident Energy (eV)

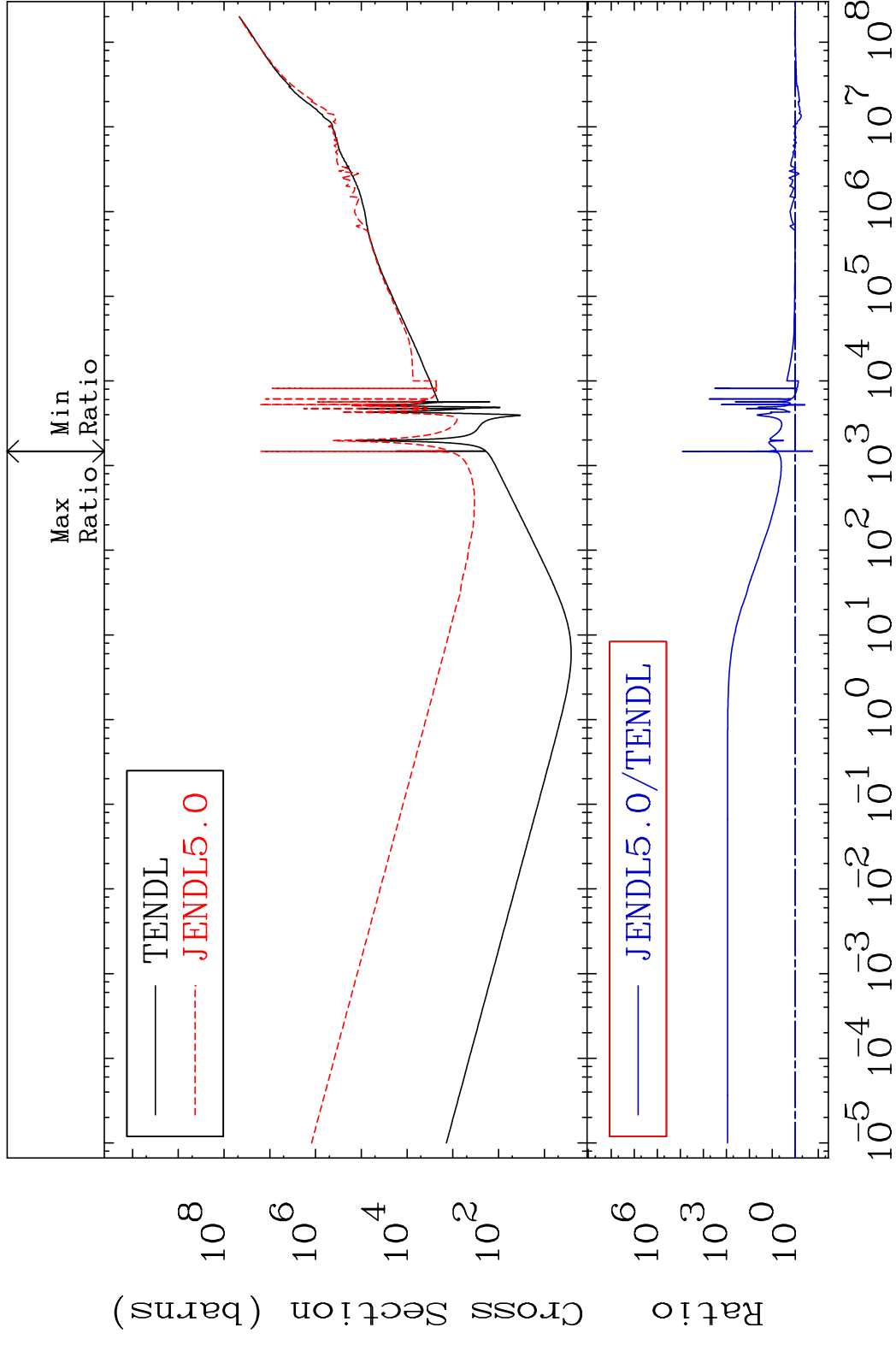
34-Se-80

MAT 3443 He-4 Production 34-Se-80
 Cross Section -100.0 To 70.92 %



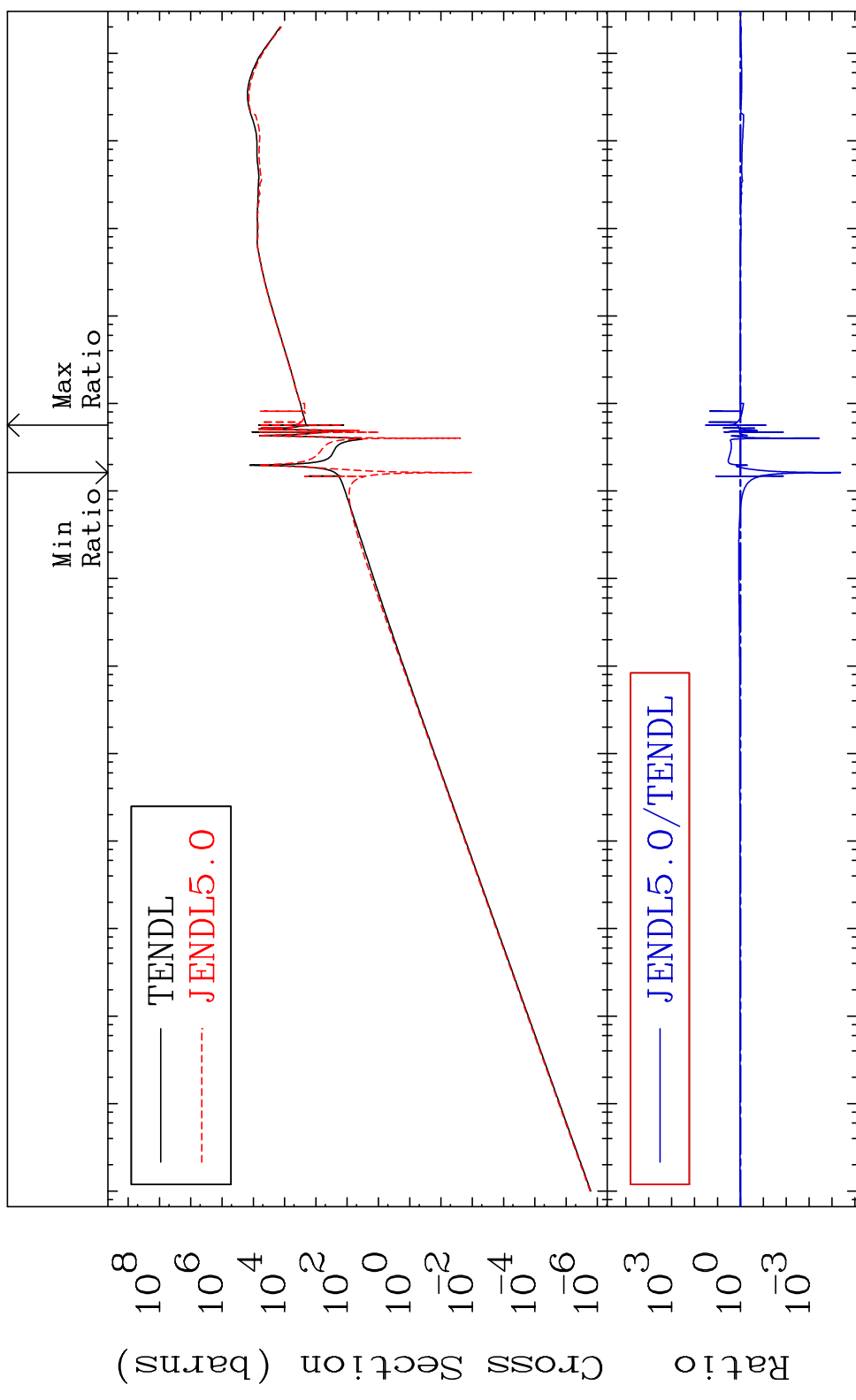
50

MAT 3443 Kerma total (eV-barns) 34-Se-80
 Cross Section -82.15 To 9999. %

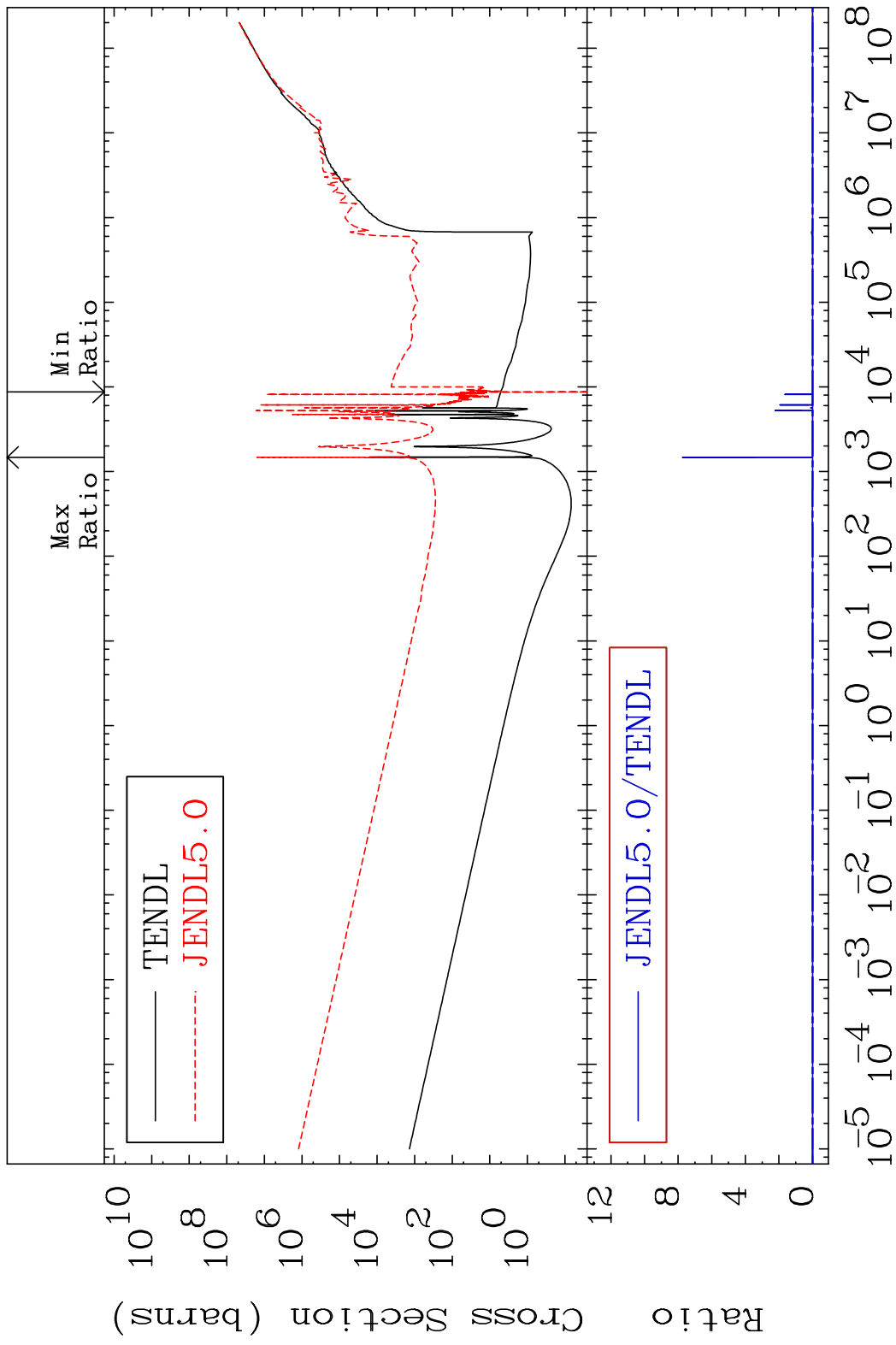


MAT 3443

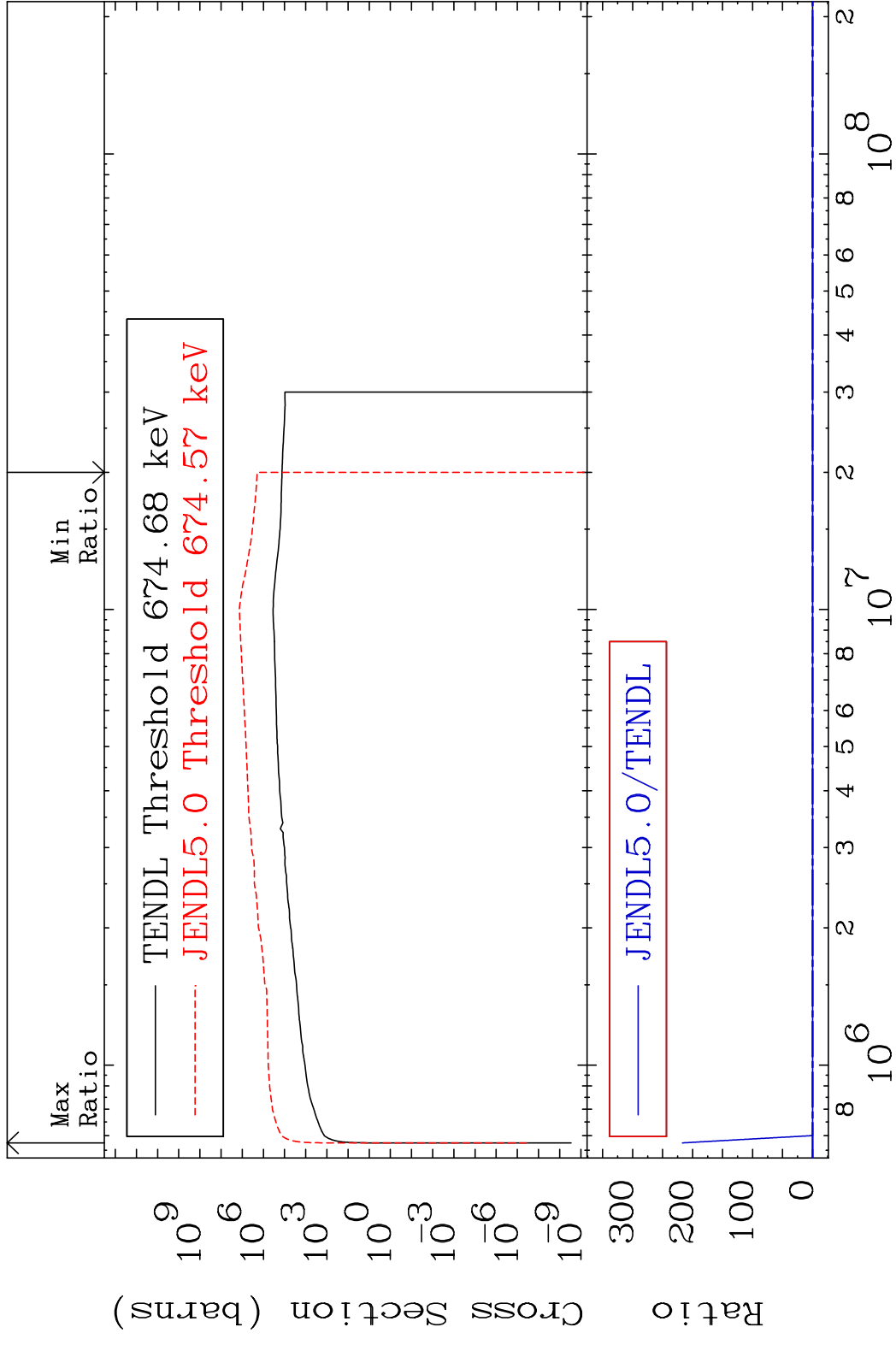
Kerma elastic Cross Section -100.0 To 3145. %
34-Se-80



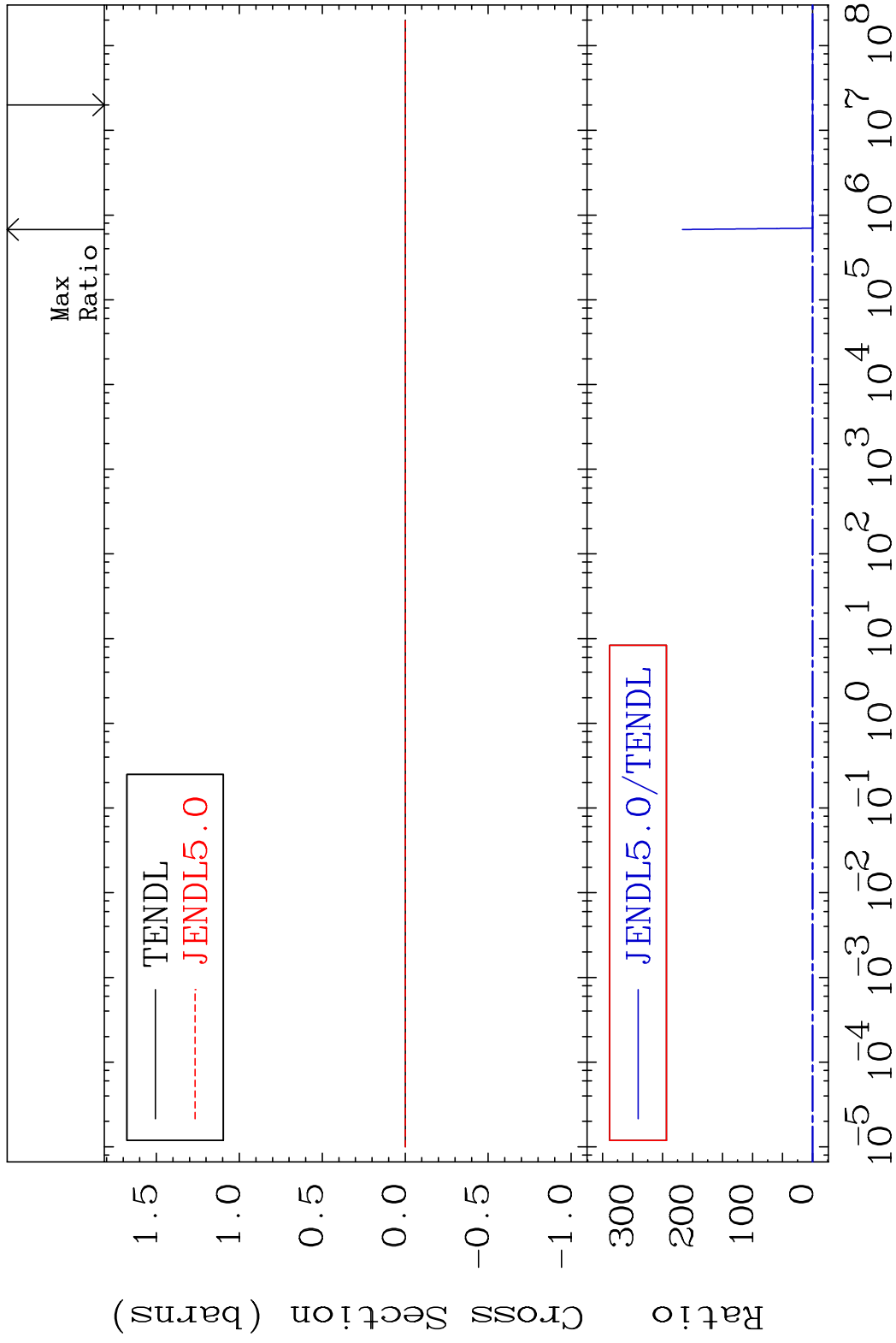
MAT 3443 Kerma non-elastic (all but mt2) 34-Se-80
 Cross Section -112.0 To 9999. %



MAT 3443 Kerma inelastic (mt51-91) 34-Se-80
 Cross Section -100.0 To 9999. %

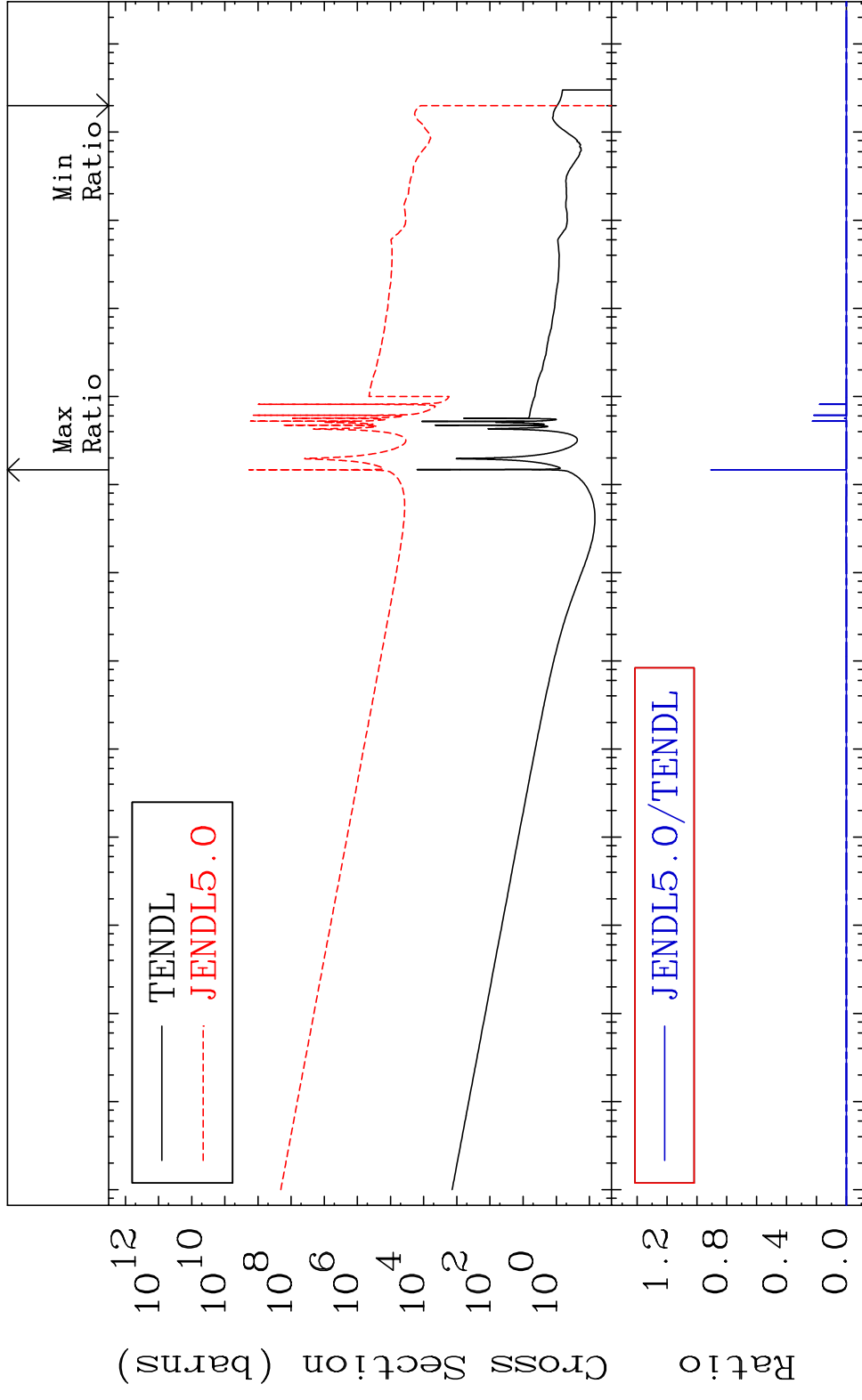


MAT 3443 Kerma fission (mt18 or mt19-20-21-38) 34-Se-80
 Cross Section -100.0 To 9999. %



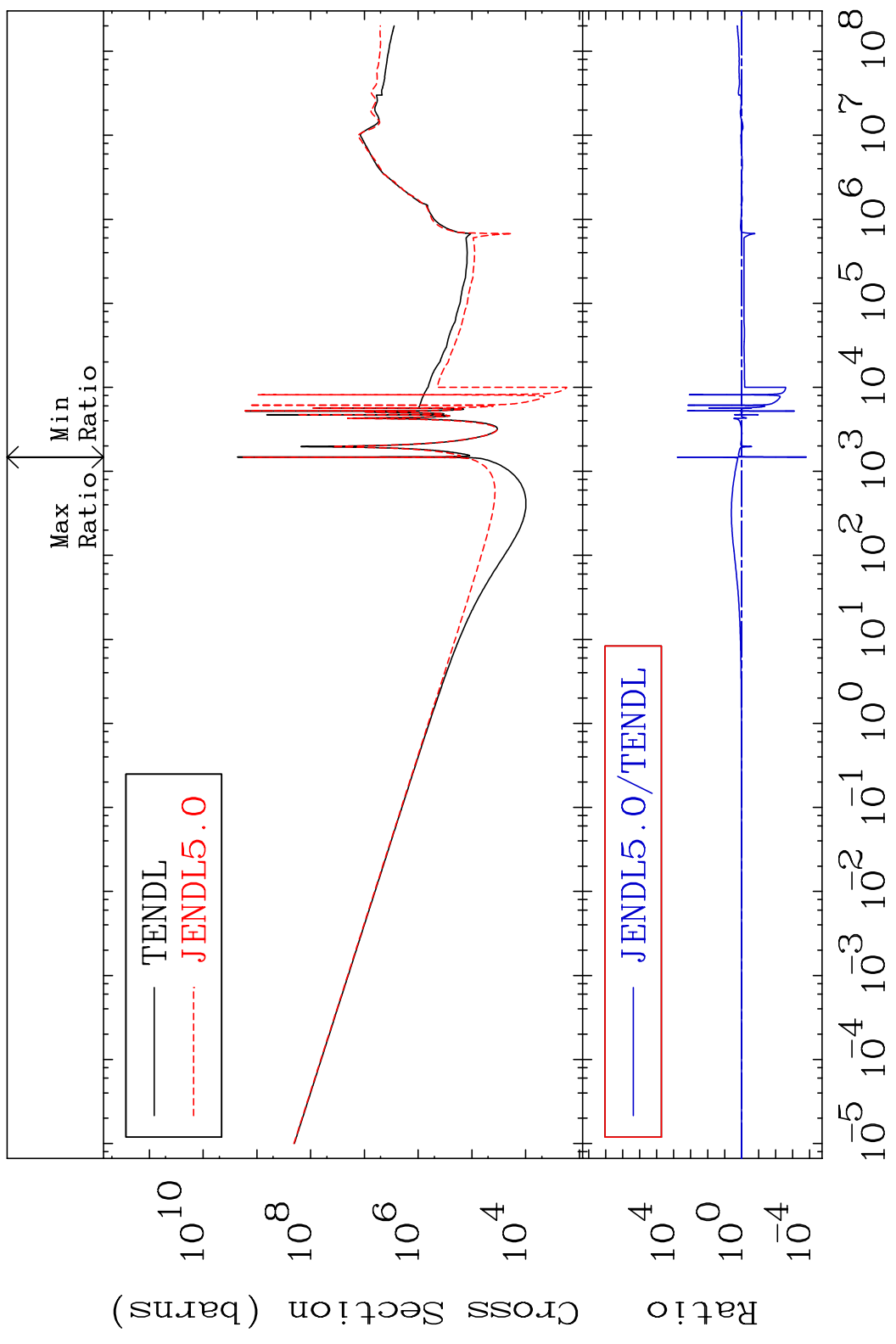
MAT 3443

Kerma capture (mt102) 34-Se-80
Cross Section -100.0 To 9999. %



MAT 3443

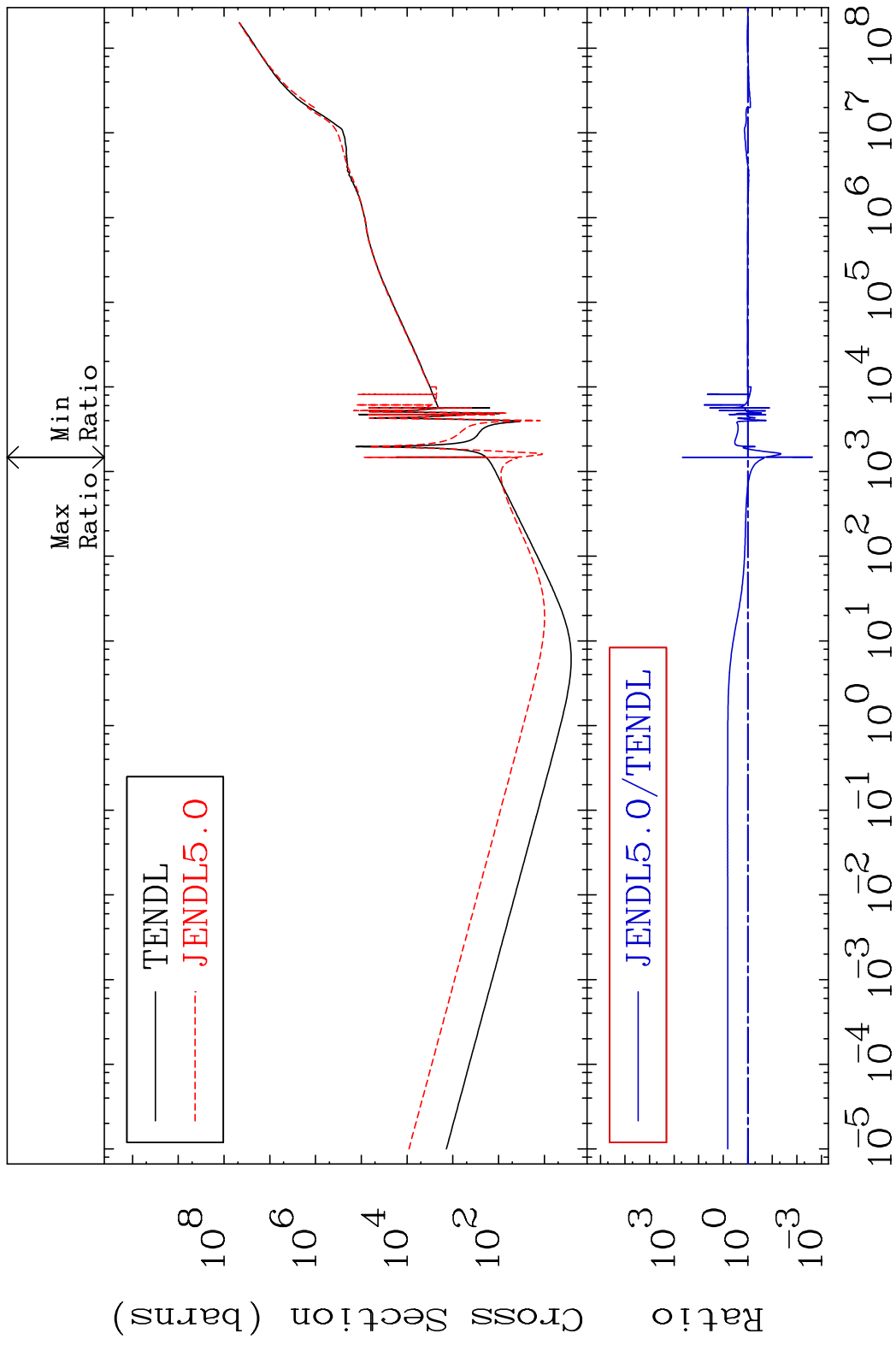
Total photon (eV-barns) 34-Se-80
Cross Section -99.98 To 9999. %



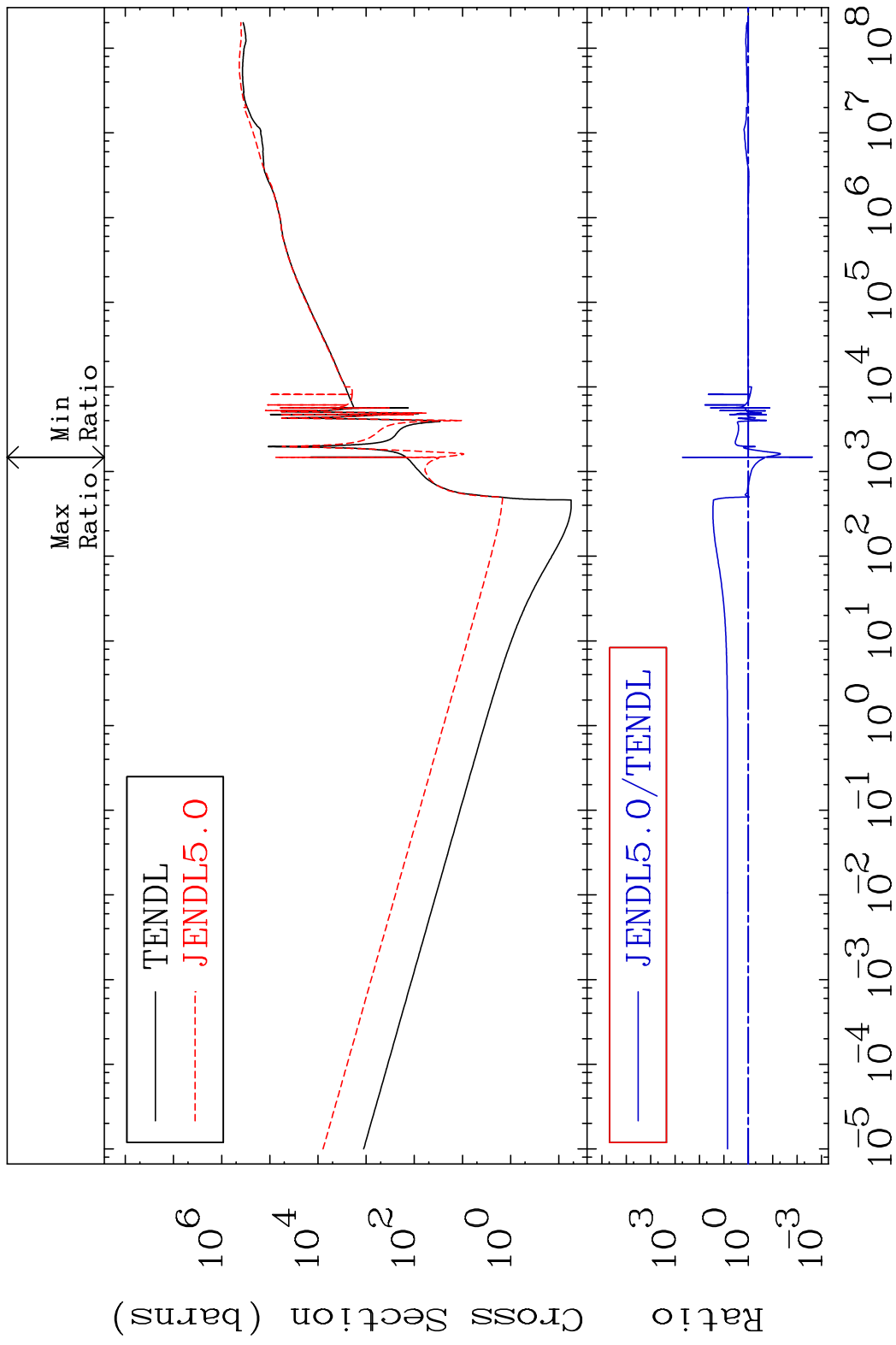
57

Incident Energy (eV) 34-Se-80

MAT 3443 Total kinematic kerma (high limit) 34-Se-80
 Cross Section -99.77 To 9999. %



MAT 3443 Dpa total (eV-barns) 34-Se-80
 Cross Section -99.777 To 9999.9 %



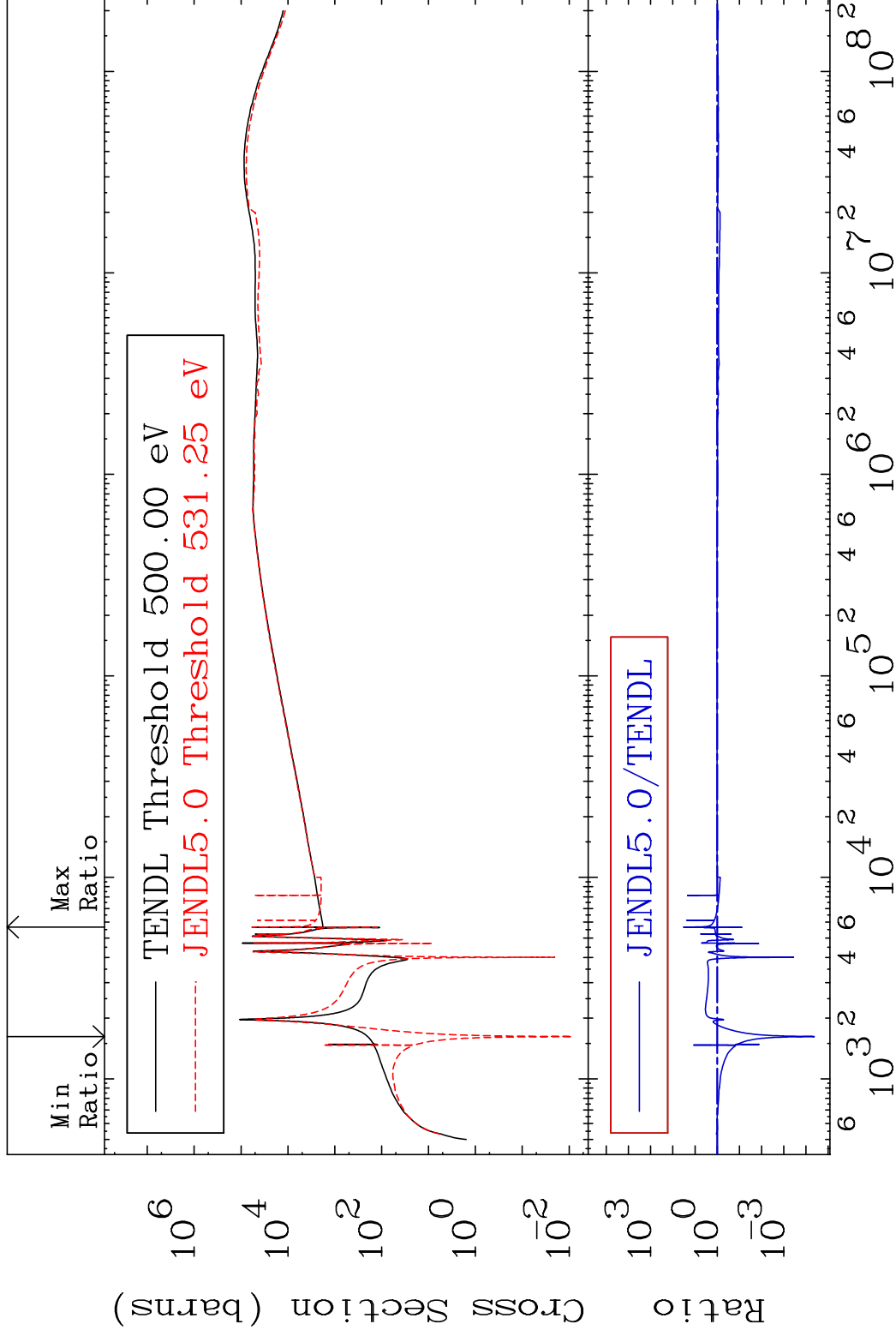
59 Incident Energy (eV) 34-Se-80

MAT 3443

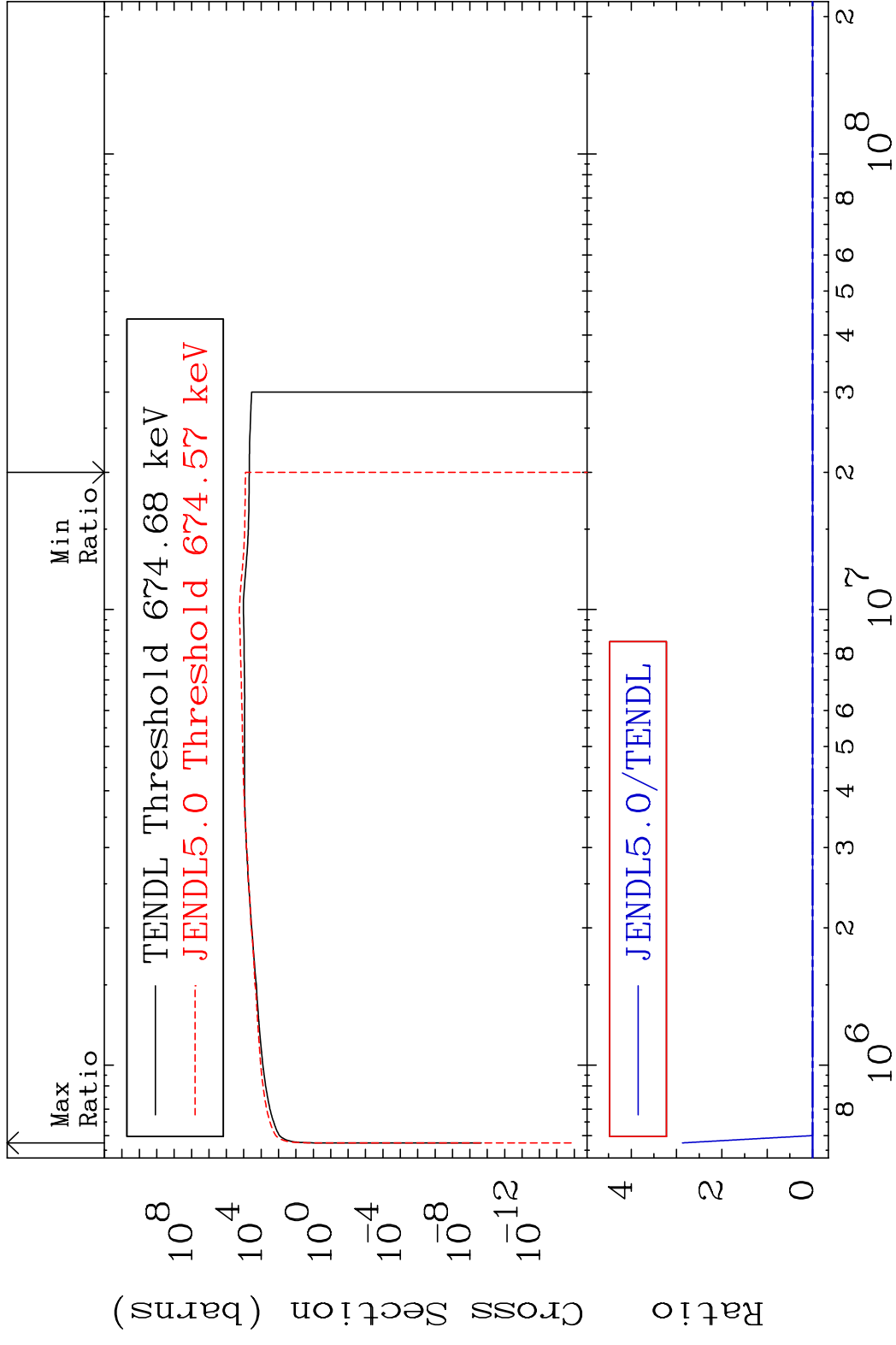
Dpa elastic (mt2)

34-Se-80

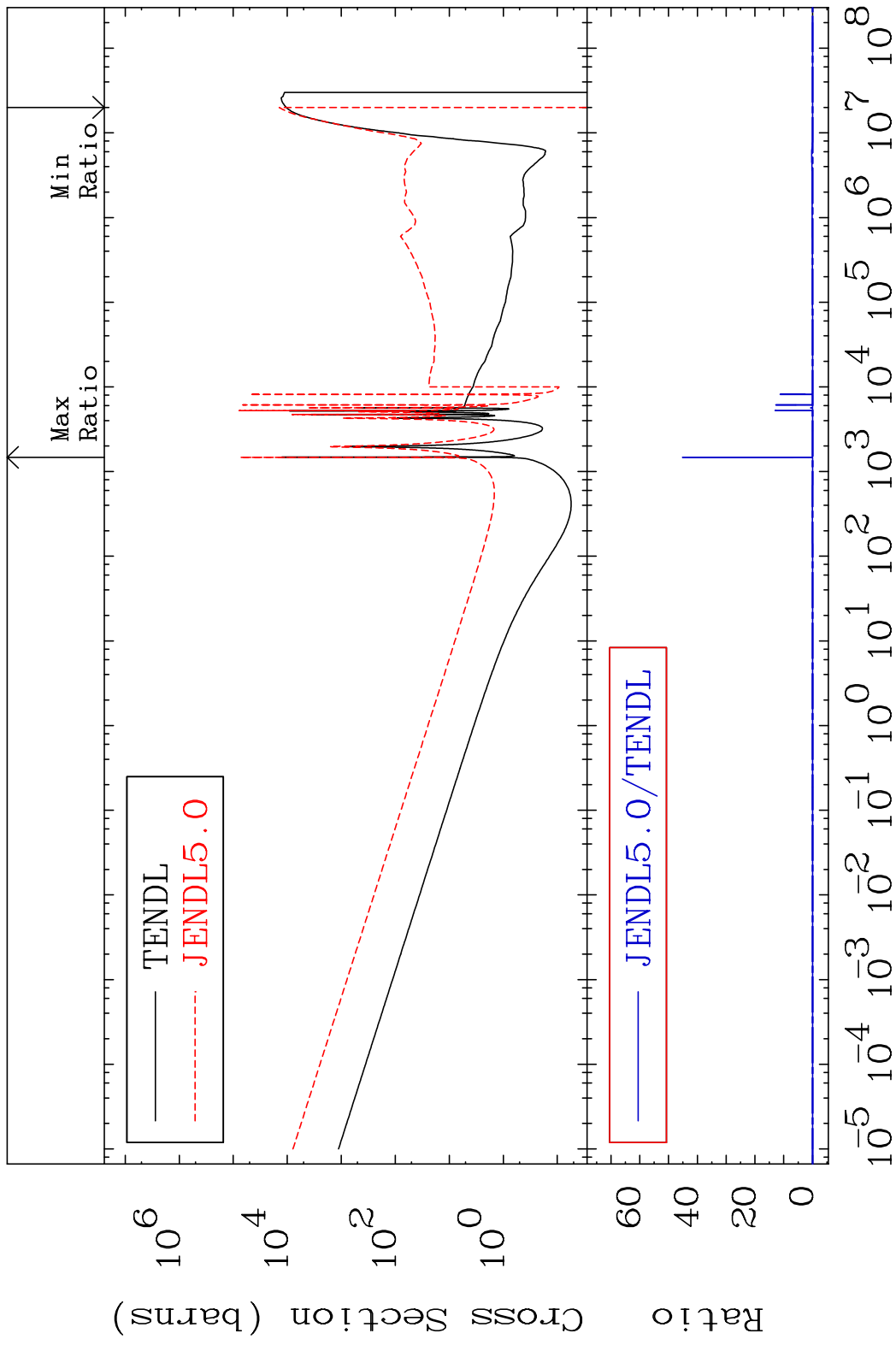
Cross Section -100.0 To 3146. %



MAT 3443 Dpa inelastic (mt51-91) 34-Se-80
 Cross Section -100.0 To 9999. %

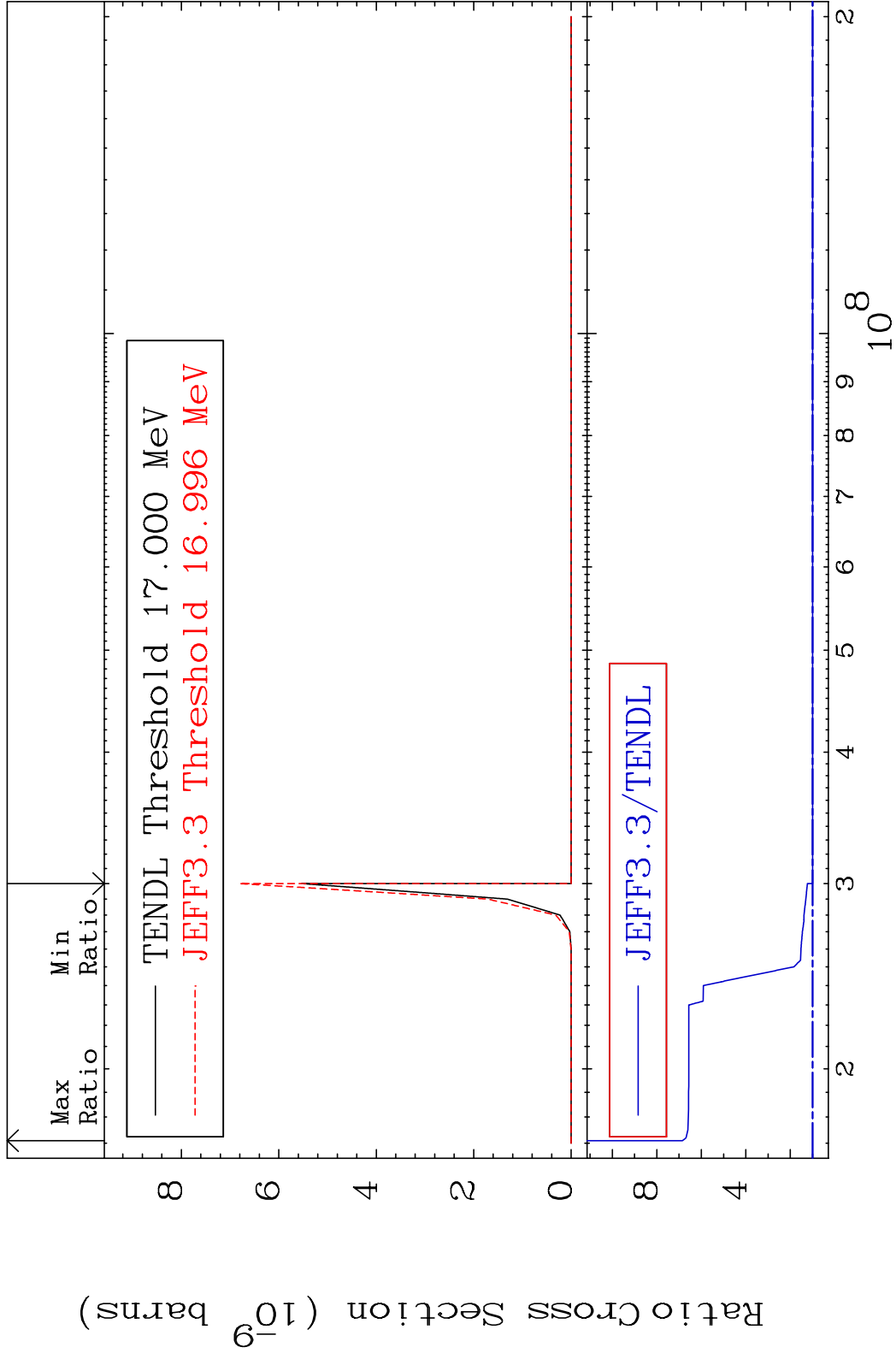


MAT 3443 Dpa disappearance (mt102 -120) 34-Se-80
 Cross Section -100.0 To 9999. %

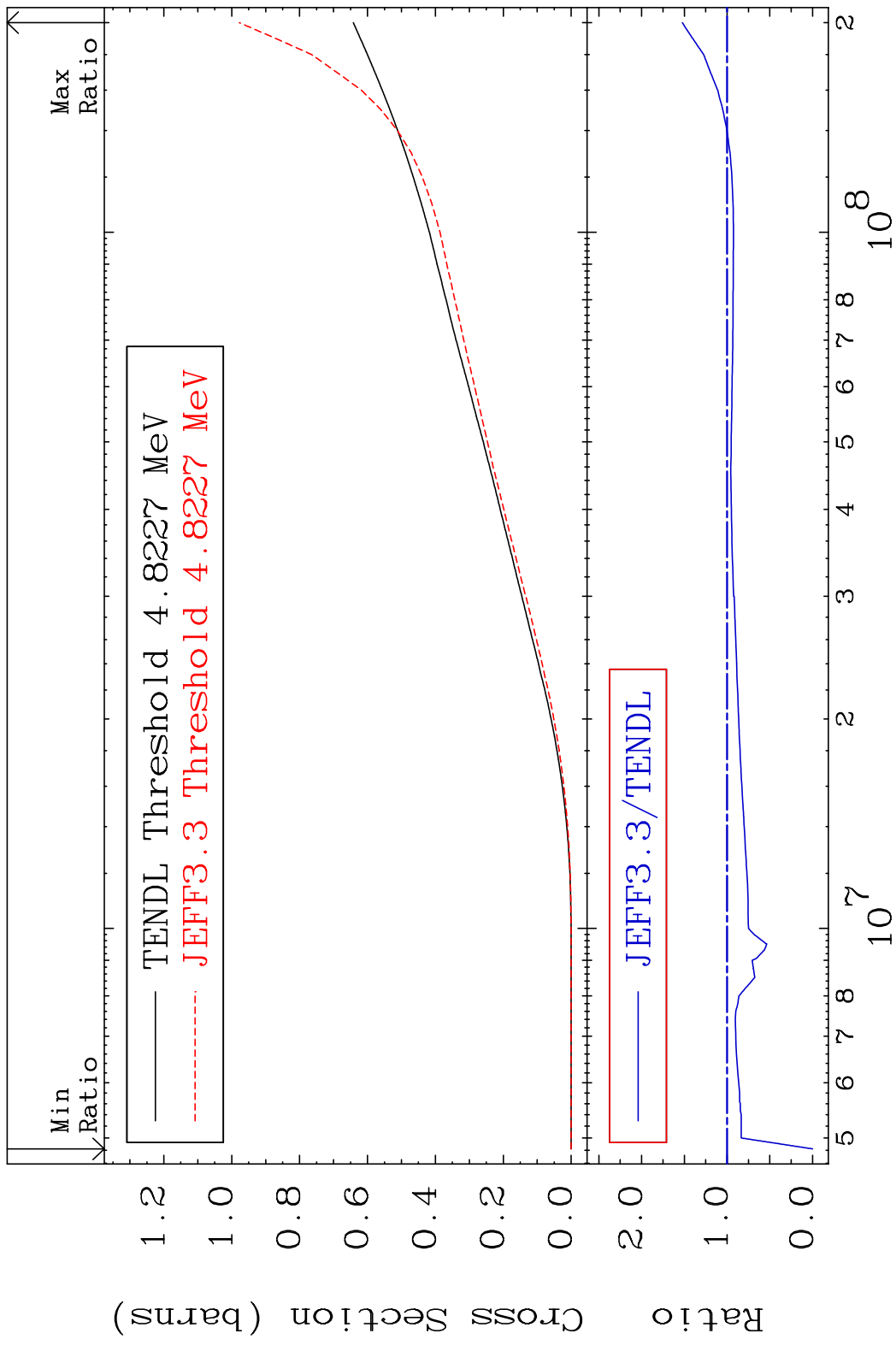


62 Incident Energy (eV) 34-Se-80

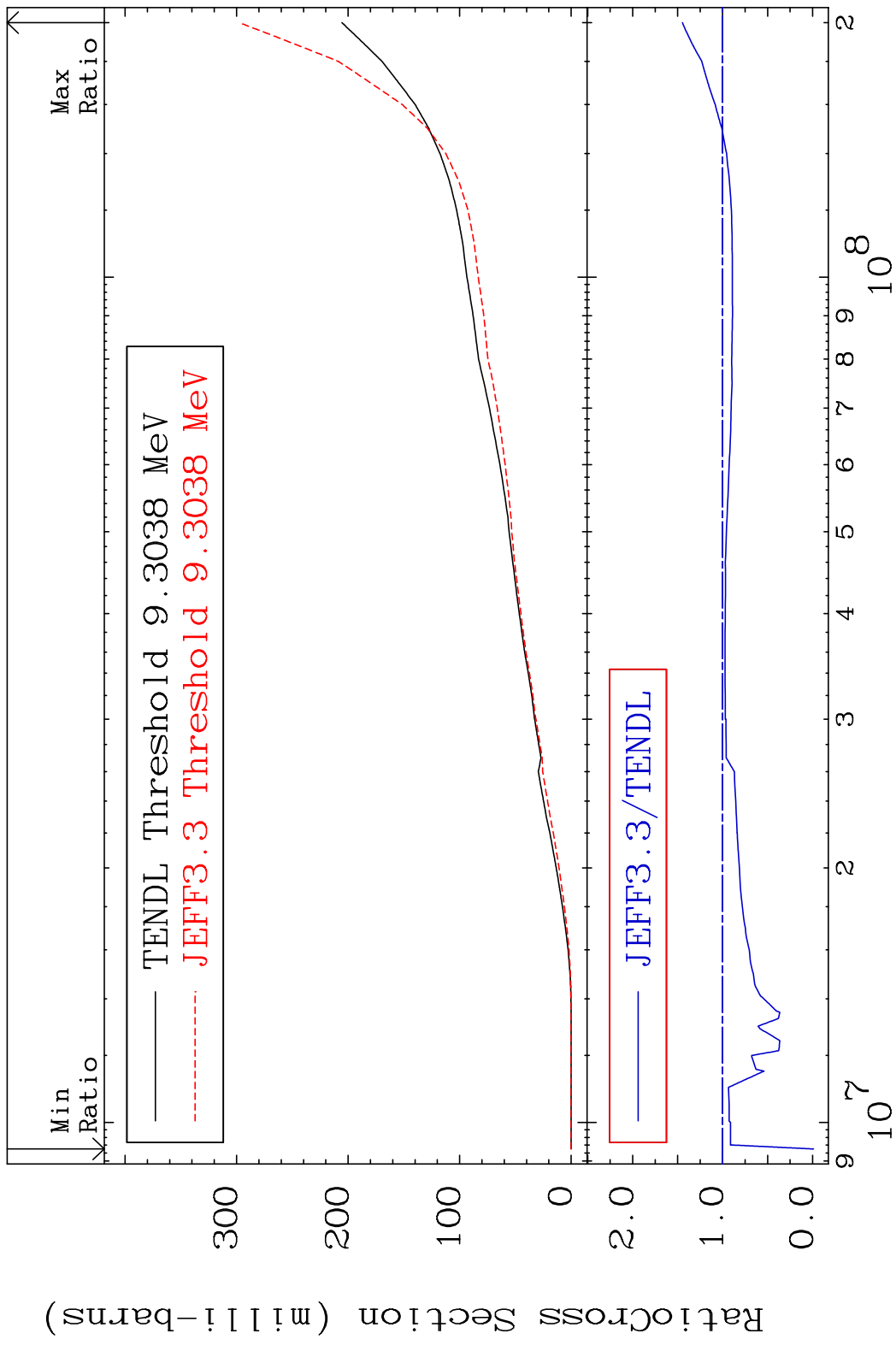
MAT 3443 (n,d) α 34-Se-80
 Cross Section 0.000 To 585.2 %



MAT 3443 Hydrogen Production 34-Se-80
 Cross Section -100.0 To 52.32 %



MAT 3443 Deuterium Production 34-Se-80
 Cross Section -100.0 To 44.76 %



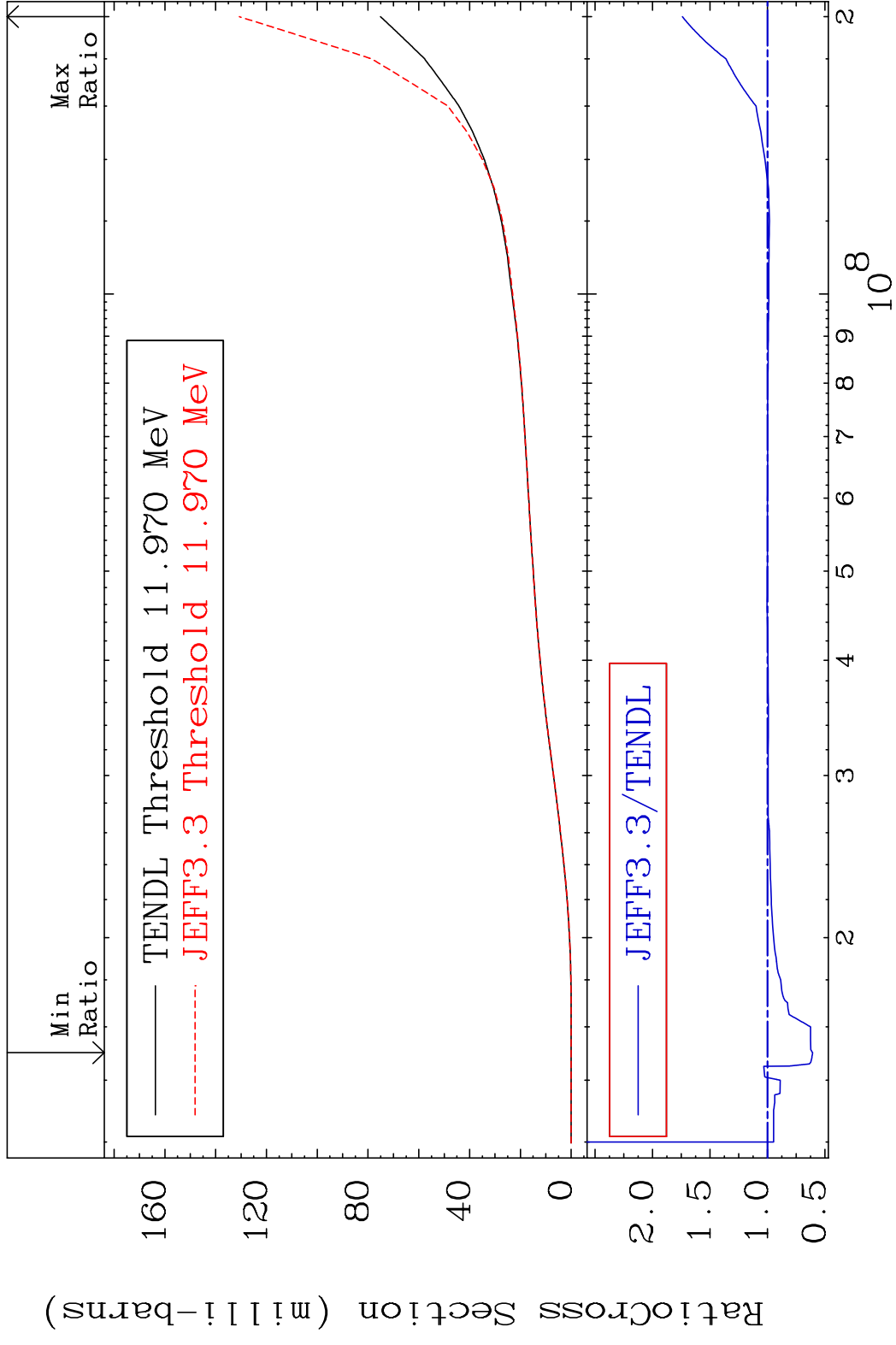
65 34-Se-80

MAT 3443

Tritium Production

34-Se-80

Cross Section -39.17 To 74.09 %

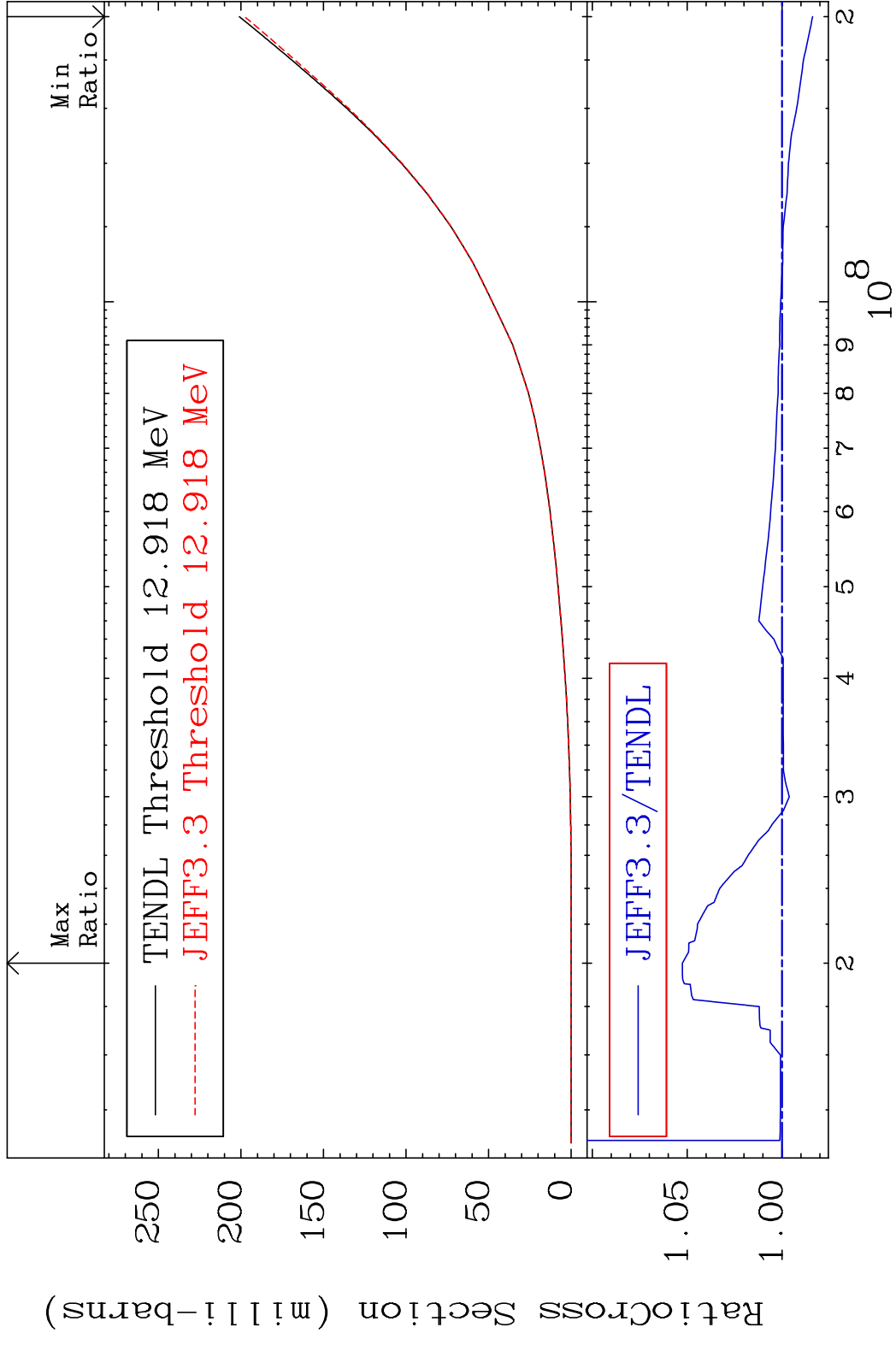


MAT 3443

He-3 Production

34-Se-80

Cross Section -1.614 To 5.254 %

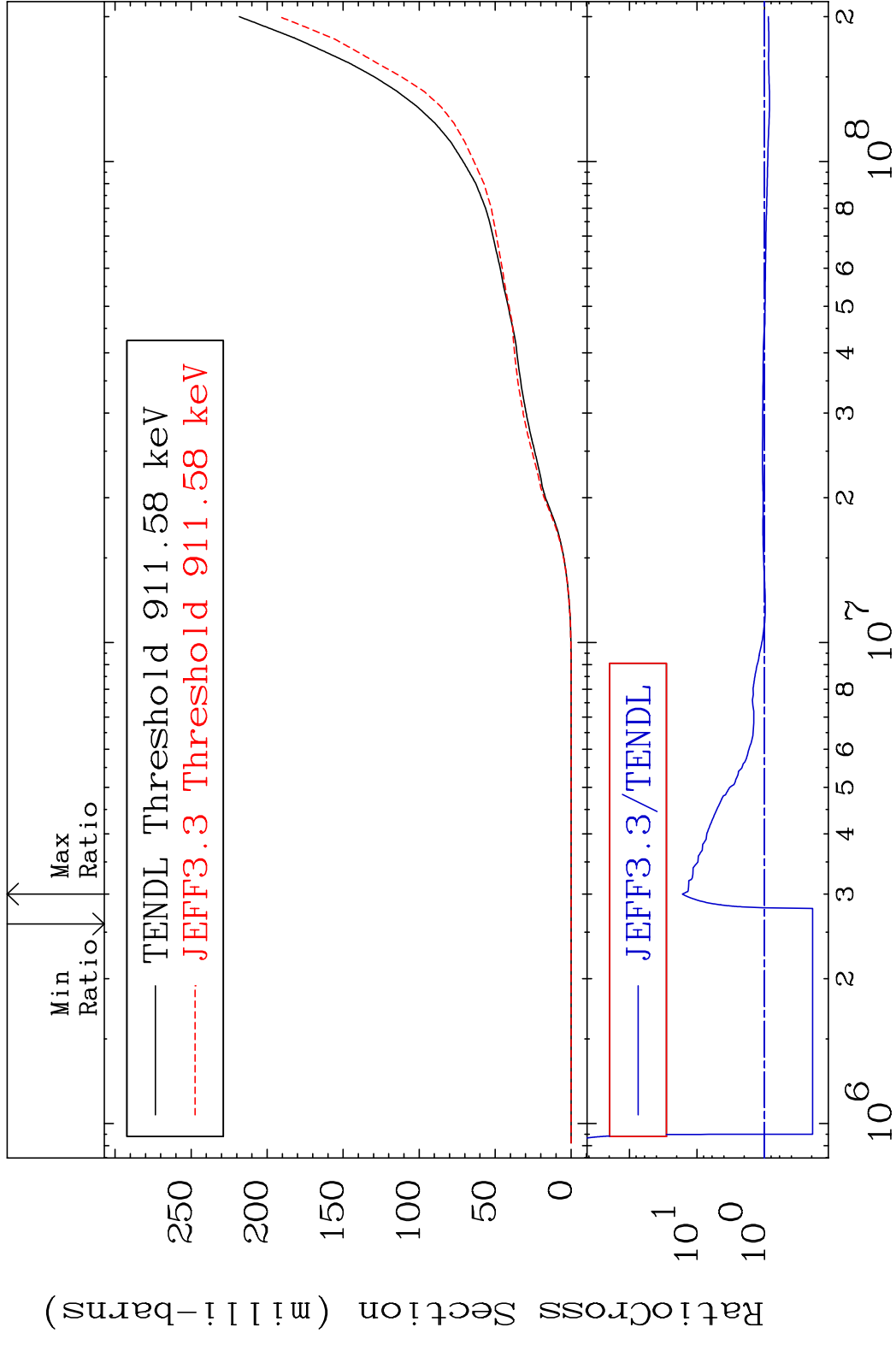


MAT 3443

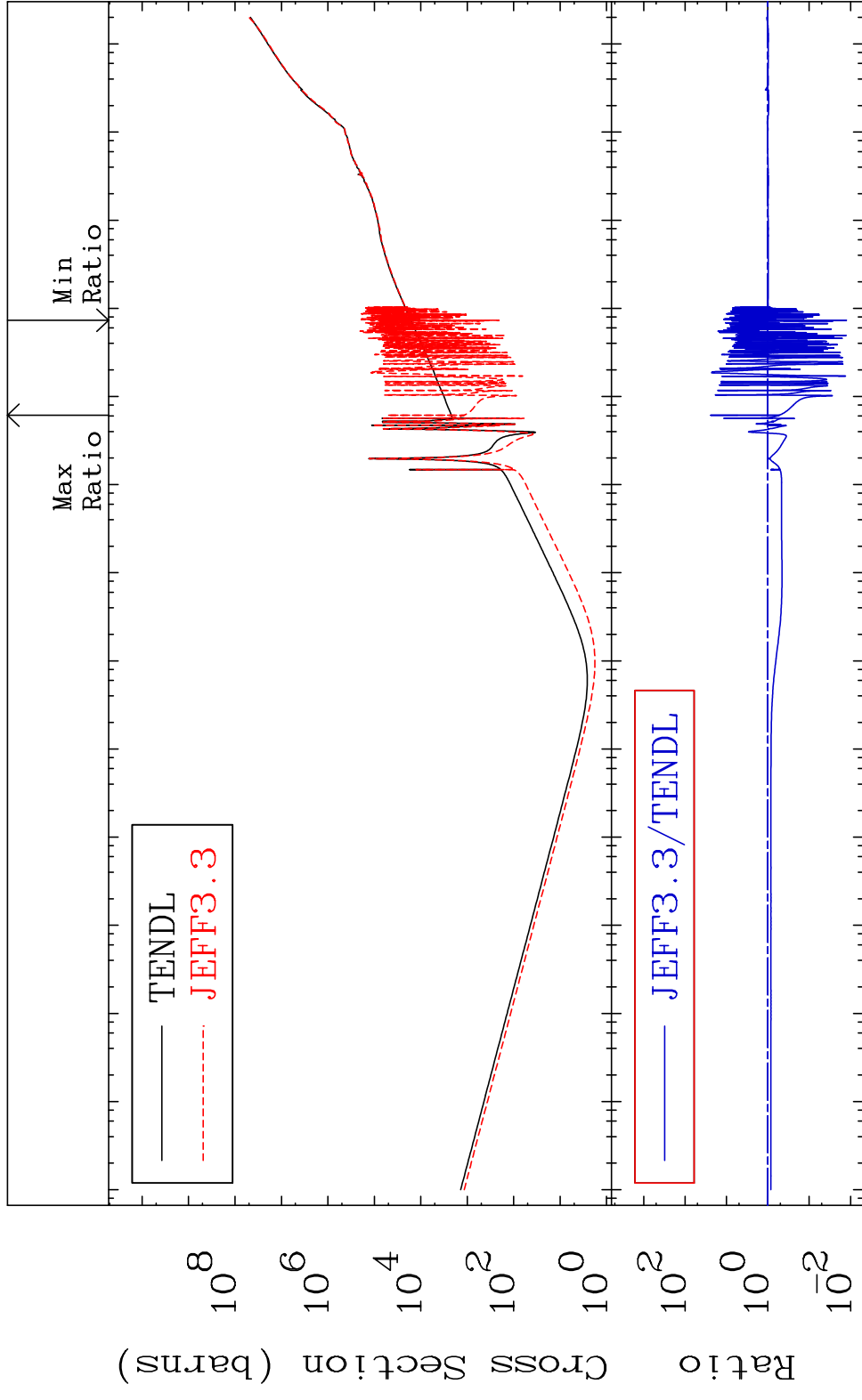
He-4 Production

34-Se-80

Cross Section -80.52 To 1551. %



MAT 3443 Kerma total (eV-barns) 34-Se-80
 Cross Section -98.73 To 2300. %

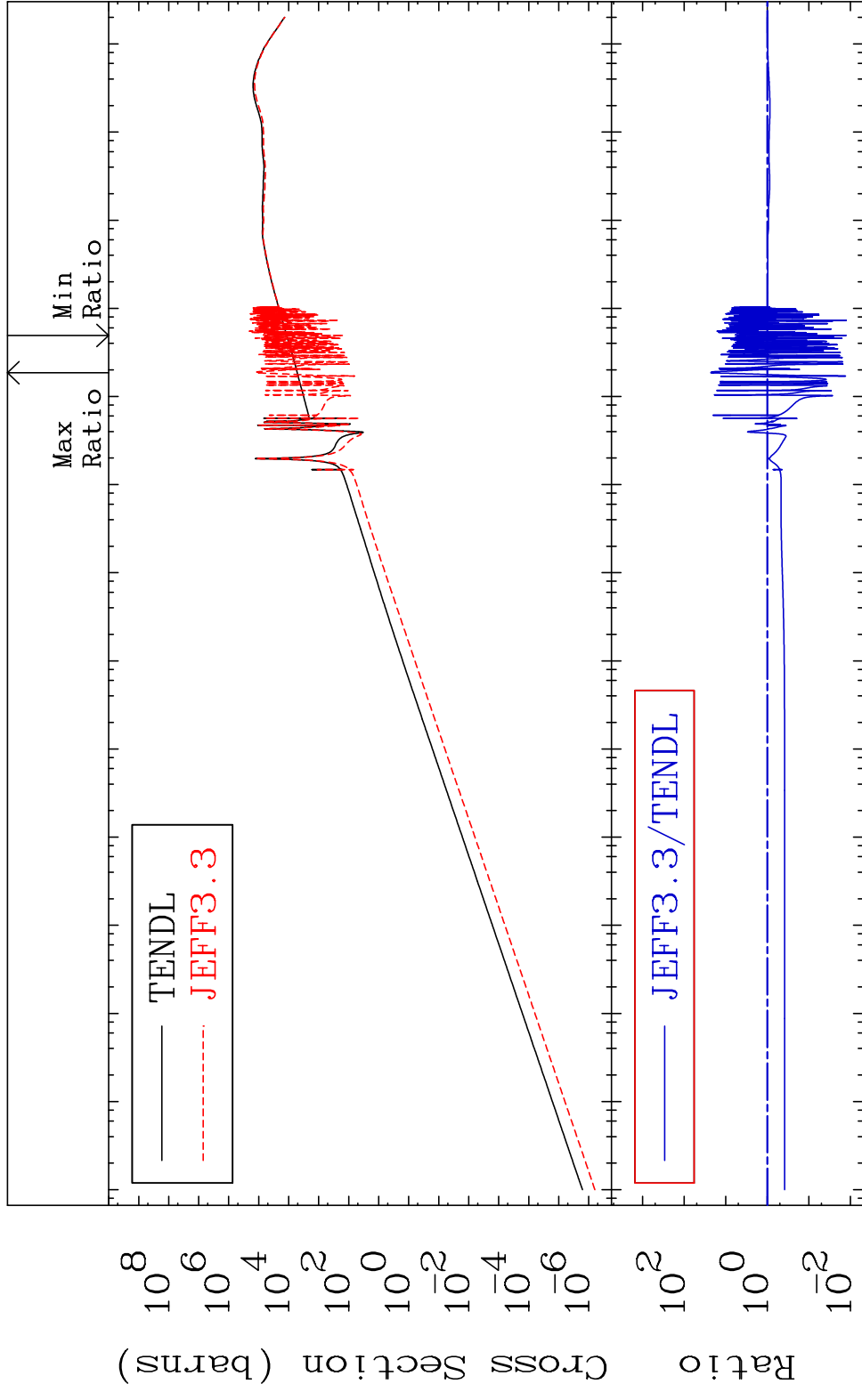


69 Incident Energy (eV) 34-Se-80

MAT 3443

Kerma elastic
Cross Section

34-Se-80
-98.75 To 2194. %

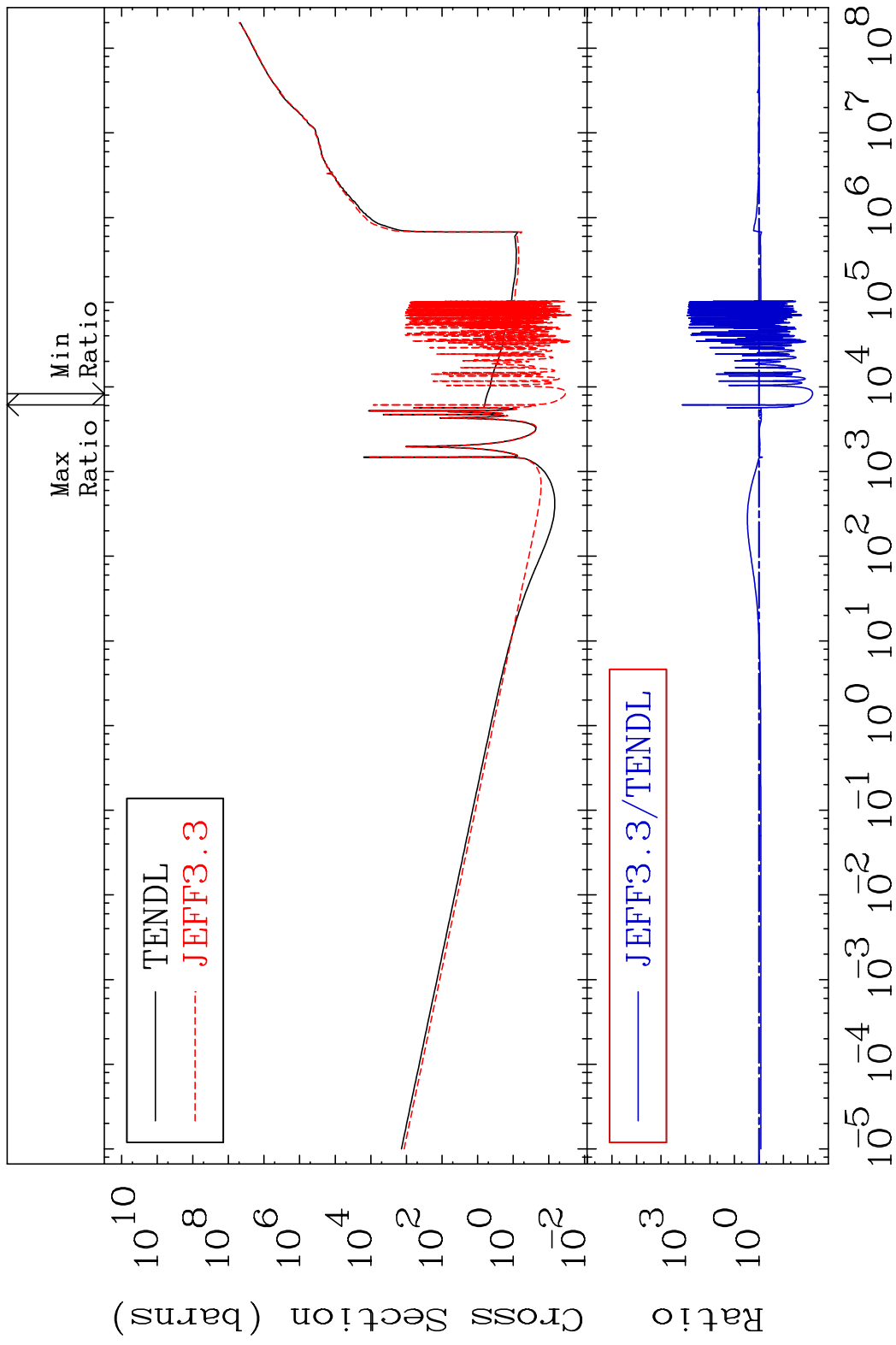


70

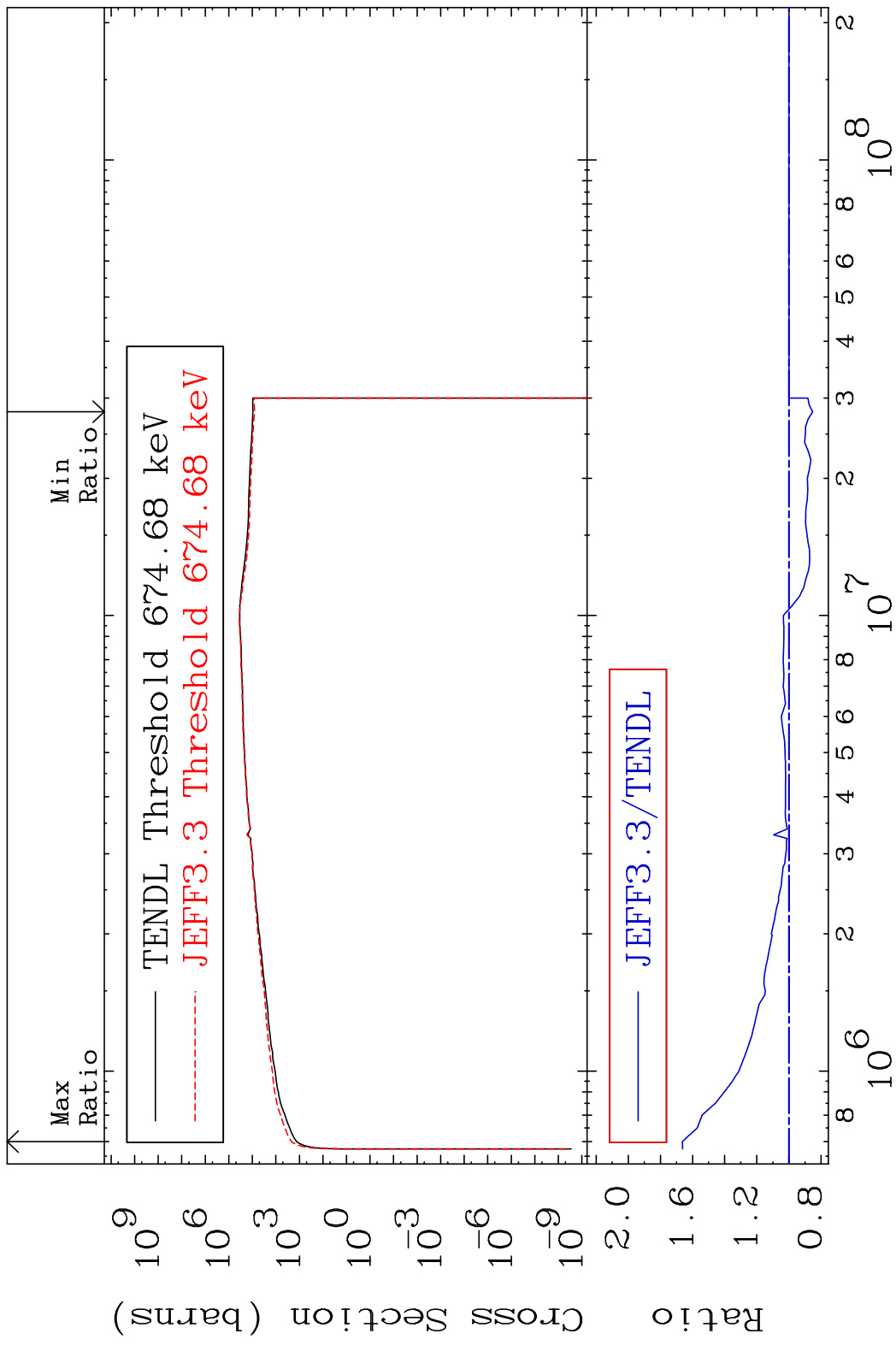
Incident Energy (eV)

34-Se-80

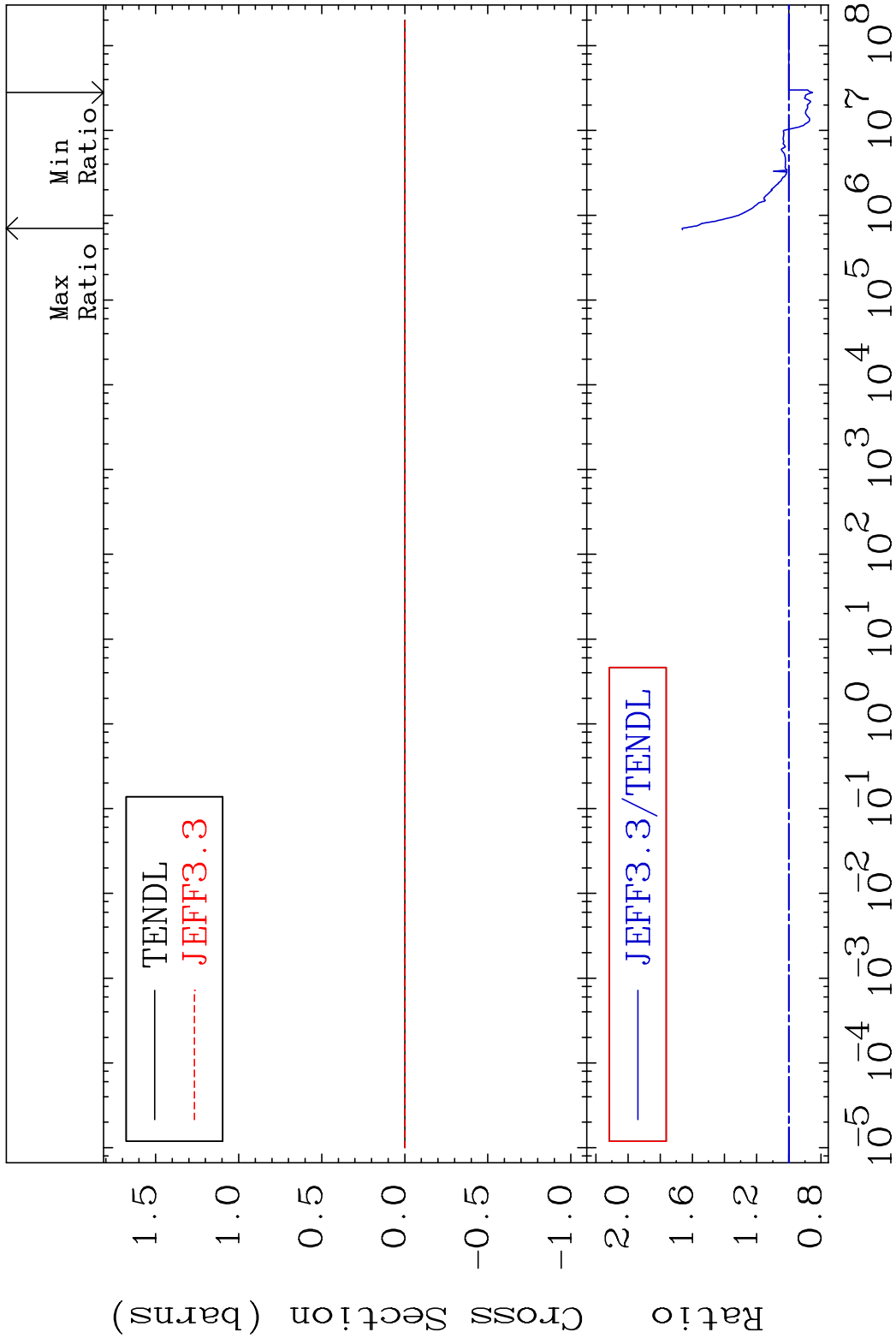
MAT 3443 Kerma non-elastic (all but mt2) 34-Se-80
 Cross Section -99.36 To 9999. %



MAT 3443 Kerma inelastic (mt51-91) 34-Se-80
 Cross Section -14.70 To 66.34 %

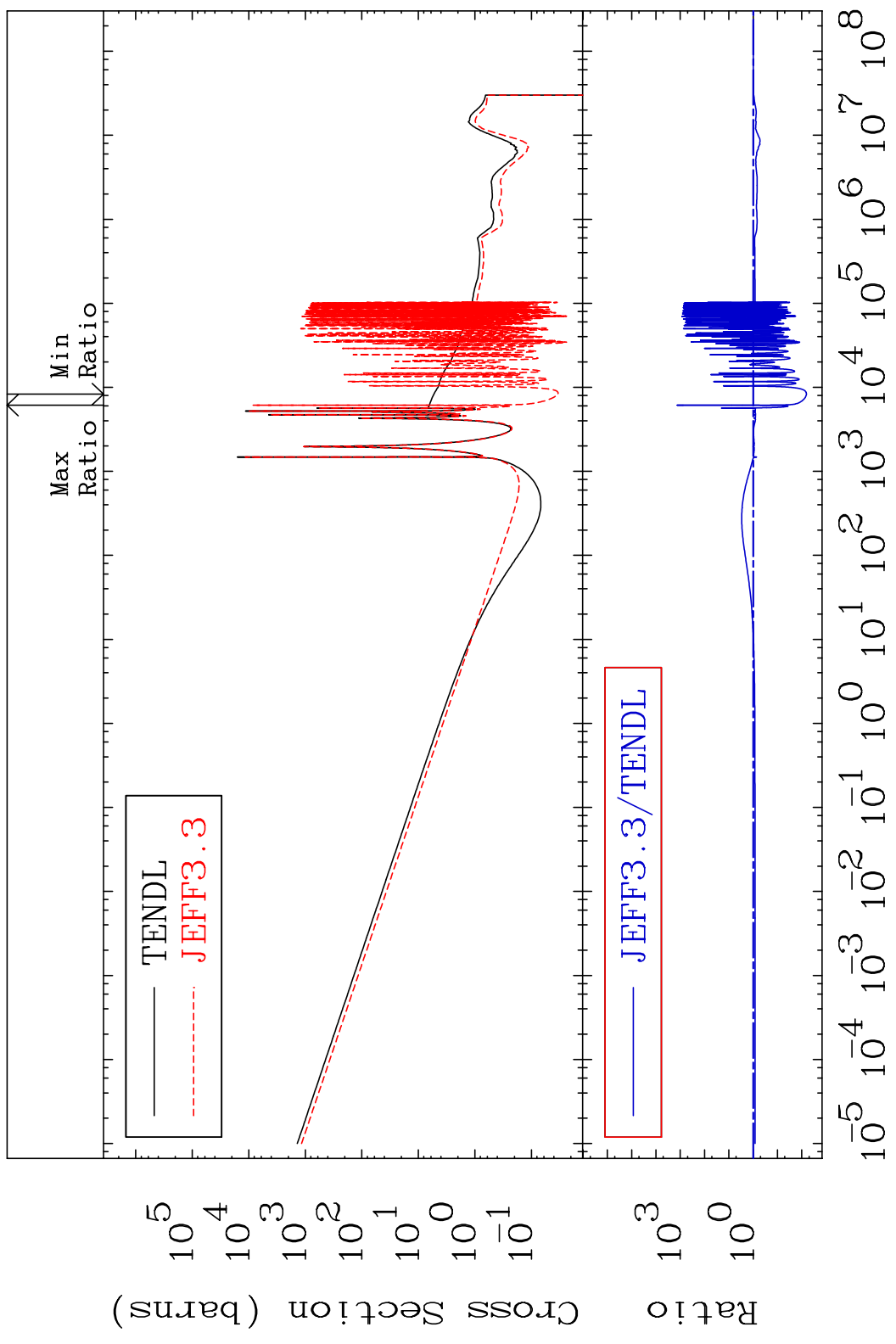


MAT 3443 Kerma fission (mt18 or mt19-20-21-38) 34-Se-80
 Cross Section -14.70 To 66.34 %



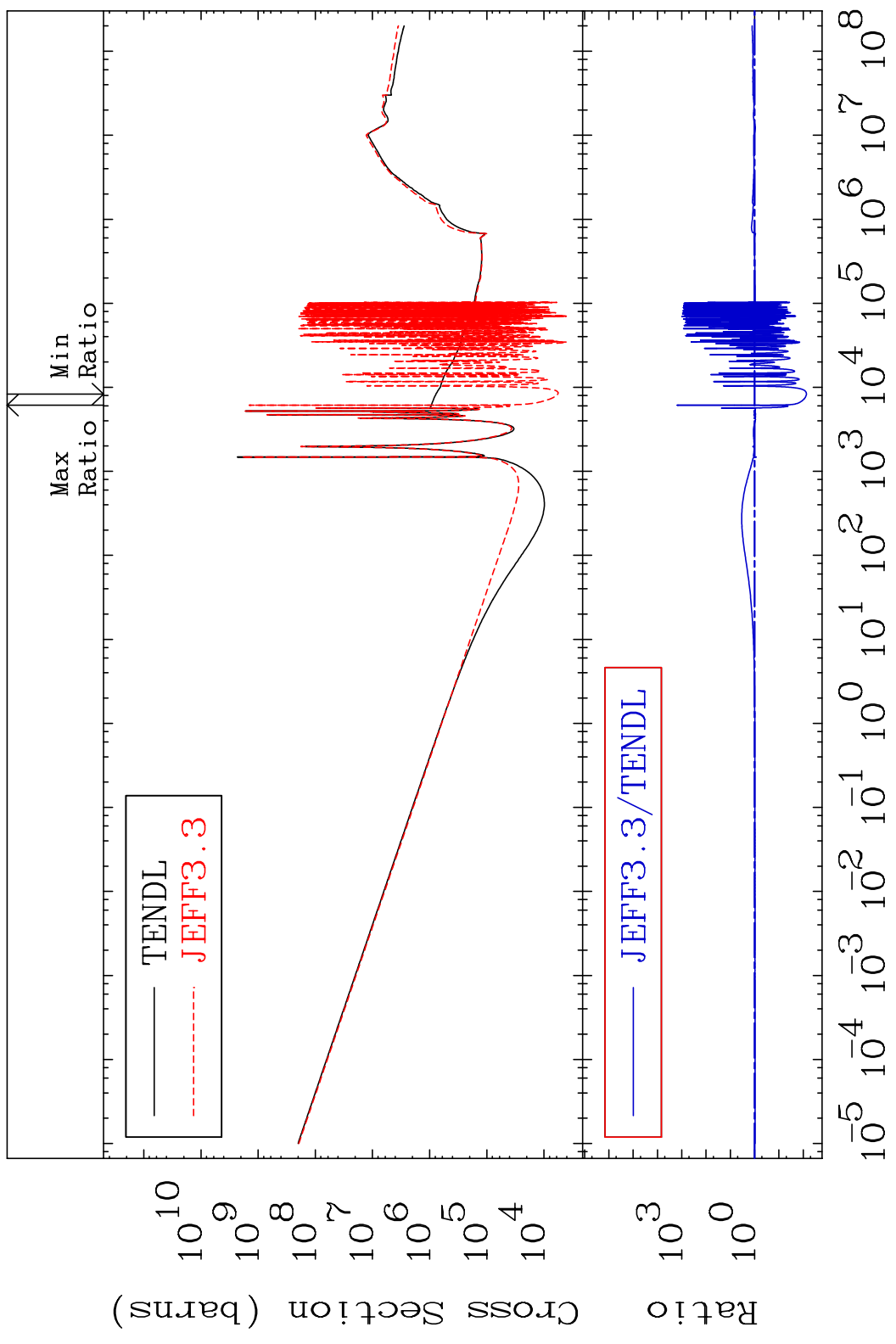
MAT 3443

Kerma capture (mt102) 34-Se-80
Cross Section -99.36 To 9999. %



MAT 3443

Total photon (eV-barns) 34-Se-80
Cross Section -99.26 To 9999. %

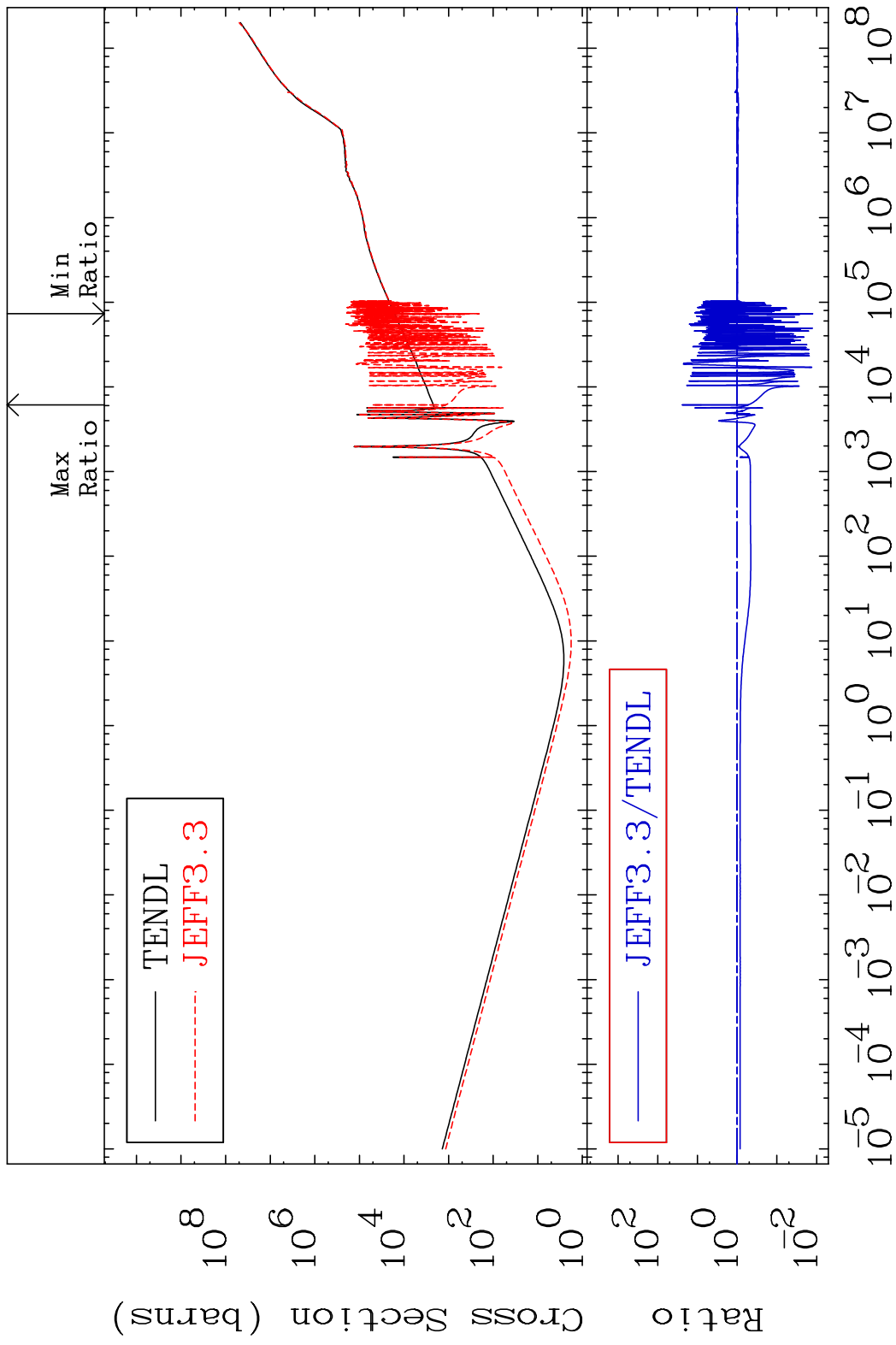


75

Incident Energy (eV)

34-Se-80

MAT 3443 Total kinematic kerma (high limit) 34-Se-80
 Cross Section -98.73 To 2300. %

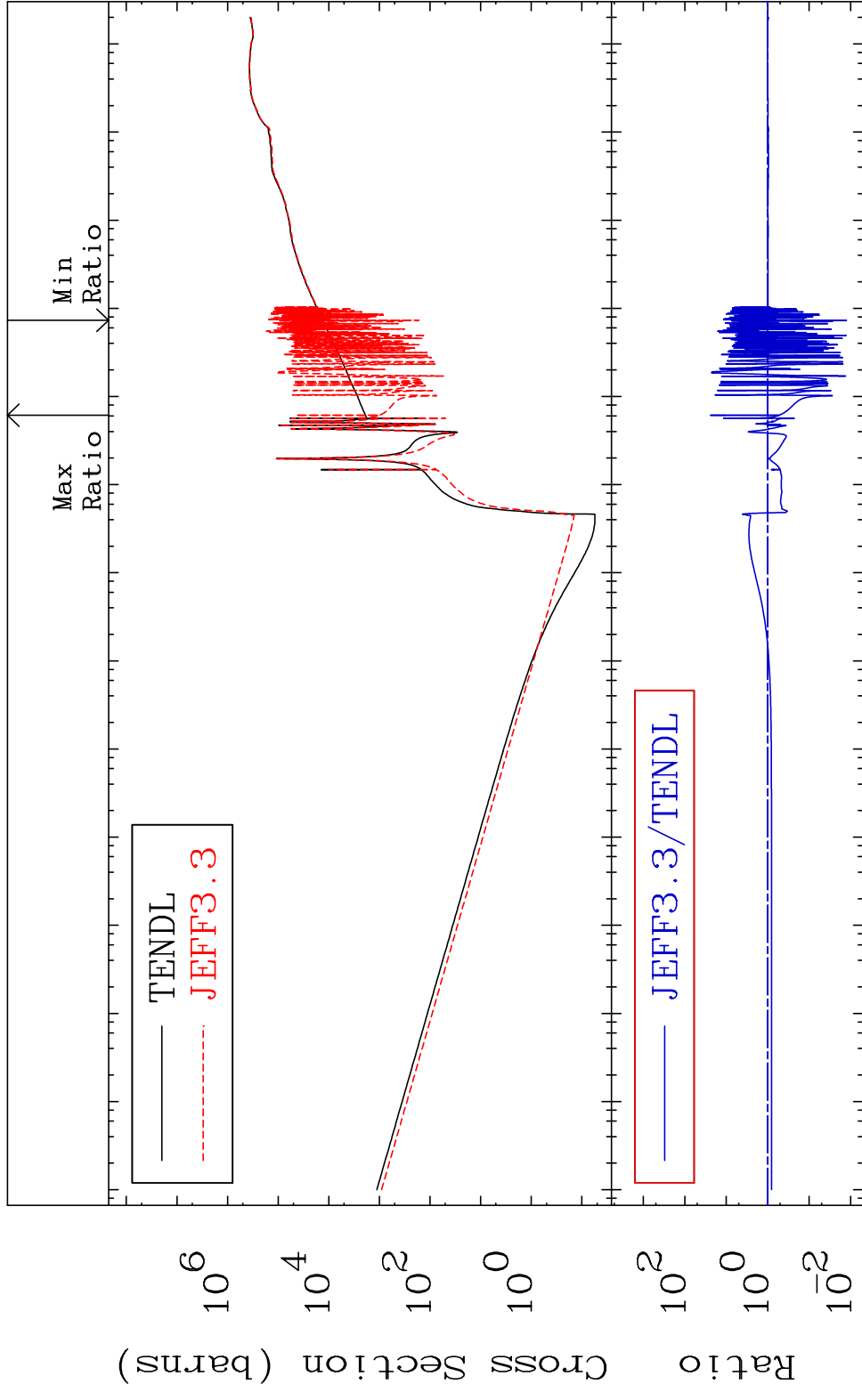


MAT 3443

Dpa total (eV-barns)

34-Se-80

Cross Section -98.73 To 2264. %



77

Incident Energy (eV)

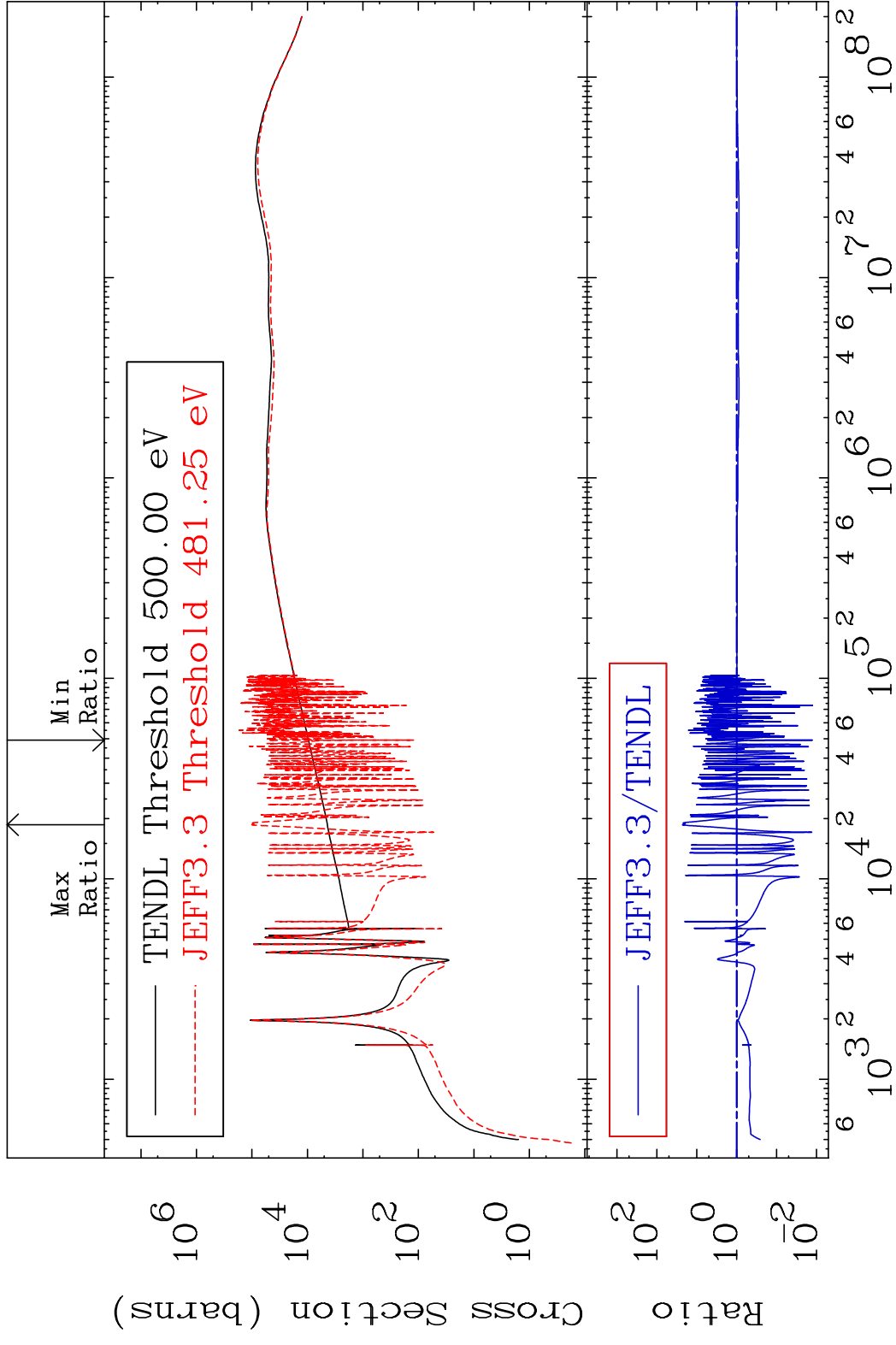
34-Se-80

MAT 3443

Dpa elastic (mt2)

34-Se-80

Cross Section -98.75 To 2194. %

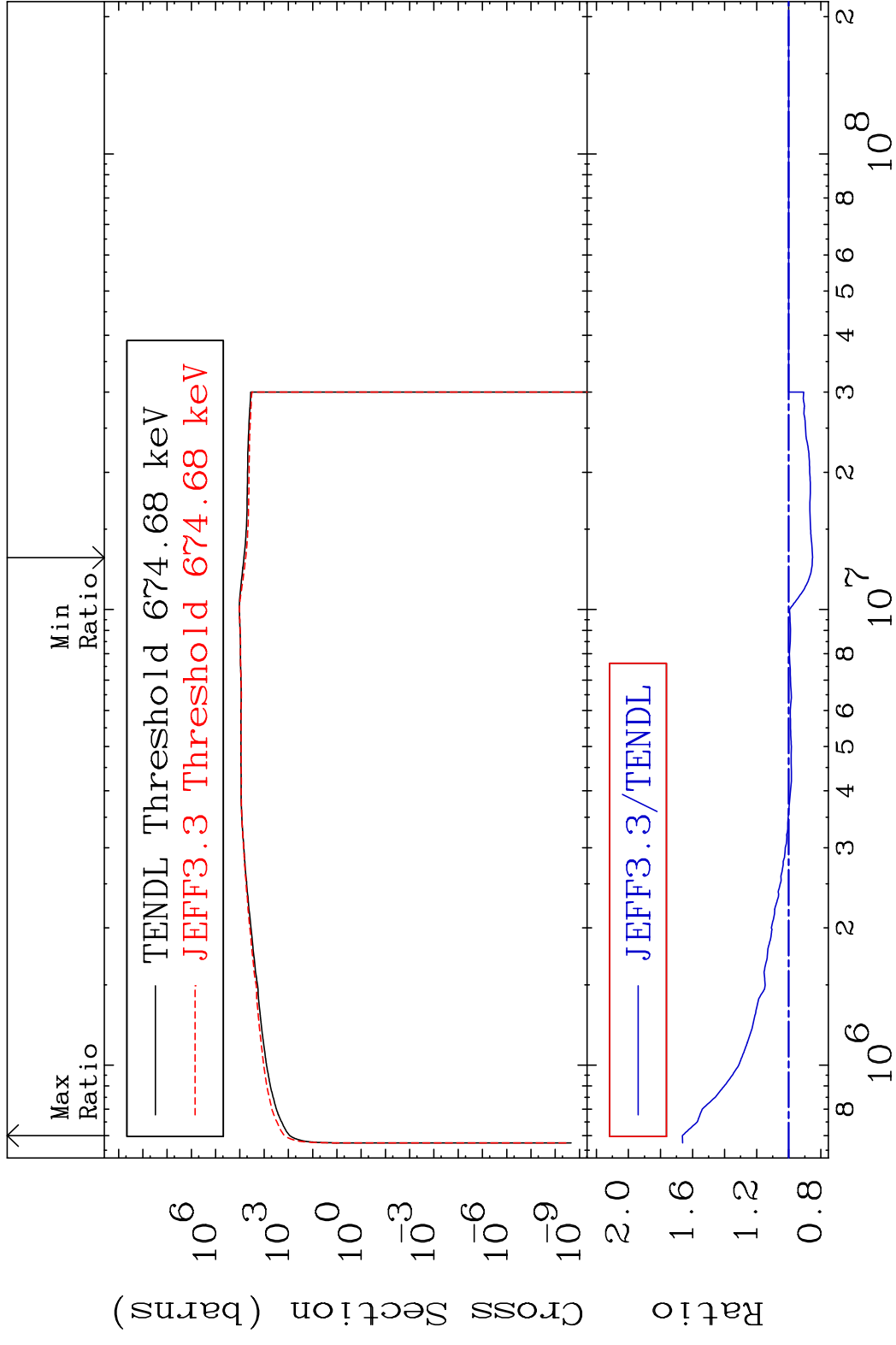


78

Incident Energy (eV)

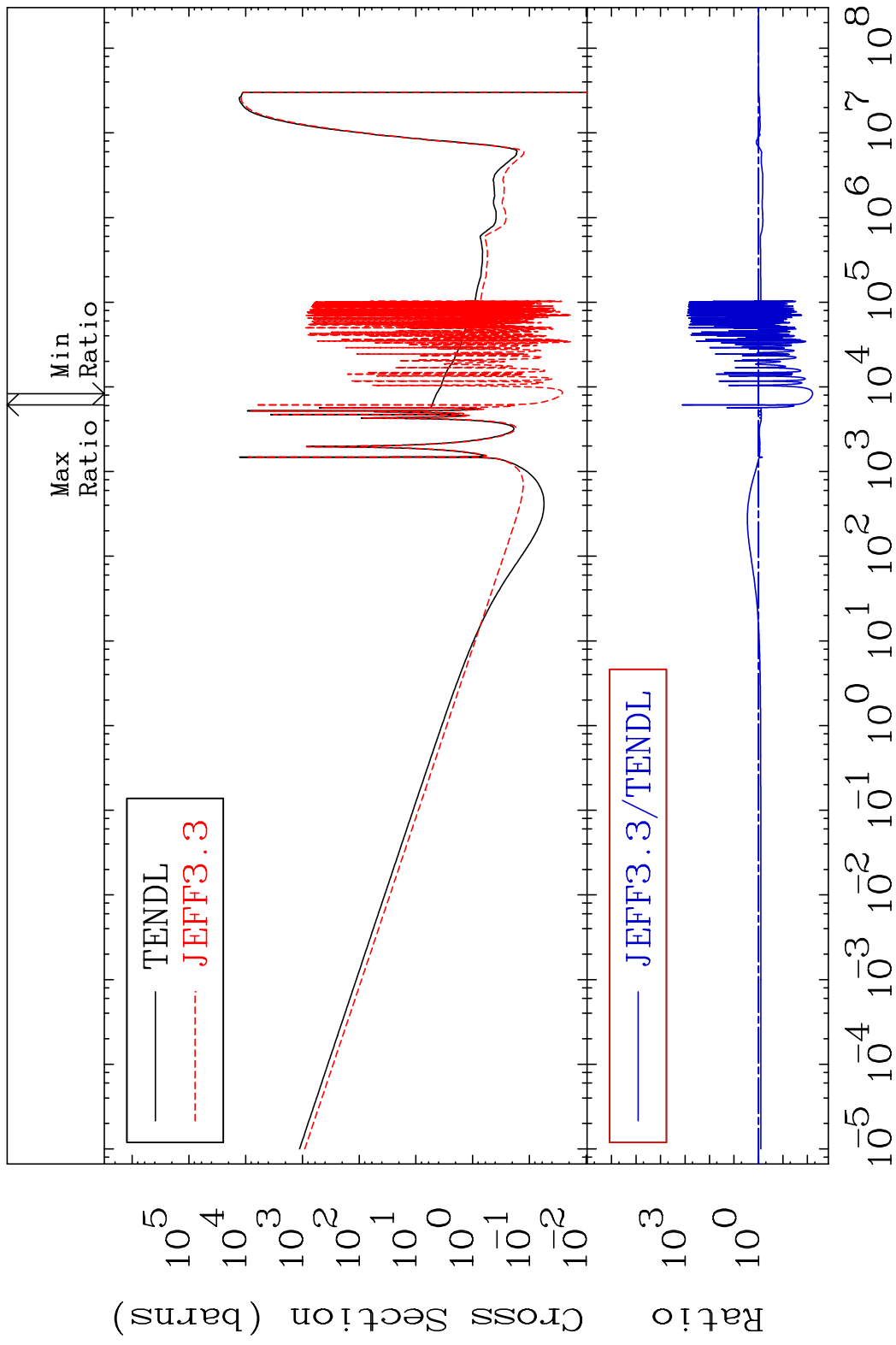
34-Se-80

MAT 3443 Dpa inelastic (mt51-91) 34-Se-80
 Cross Section -14.88 To 66.36 %

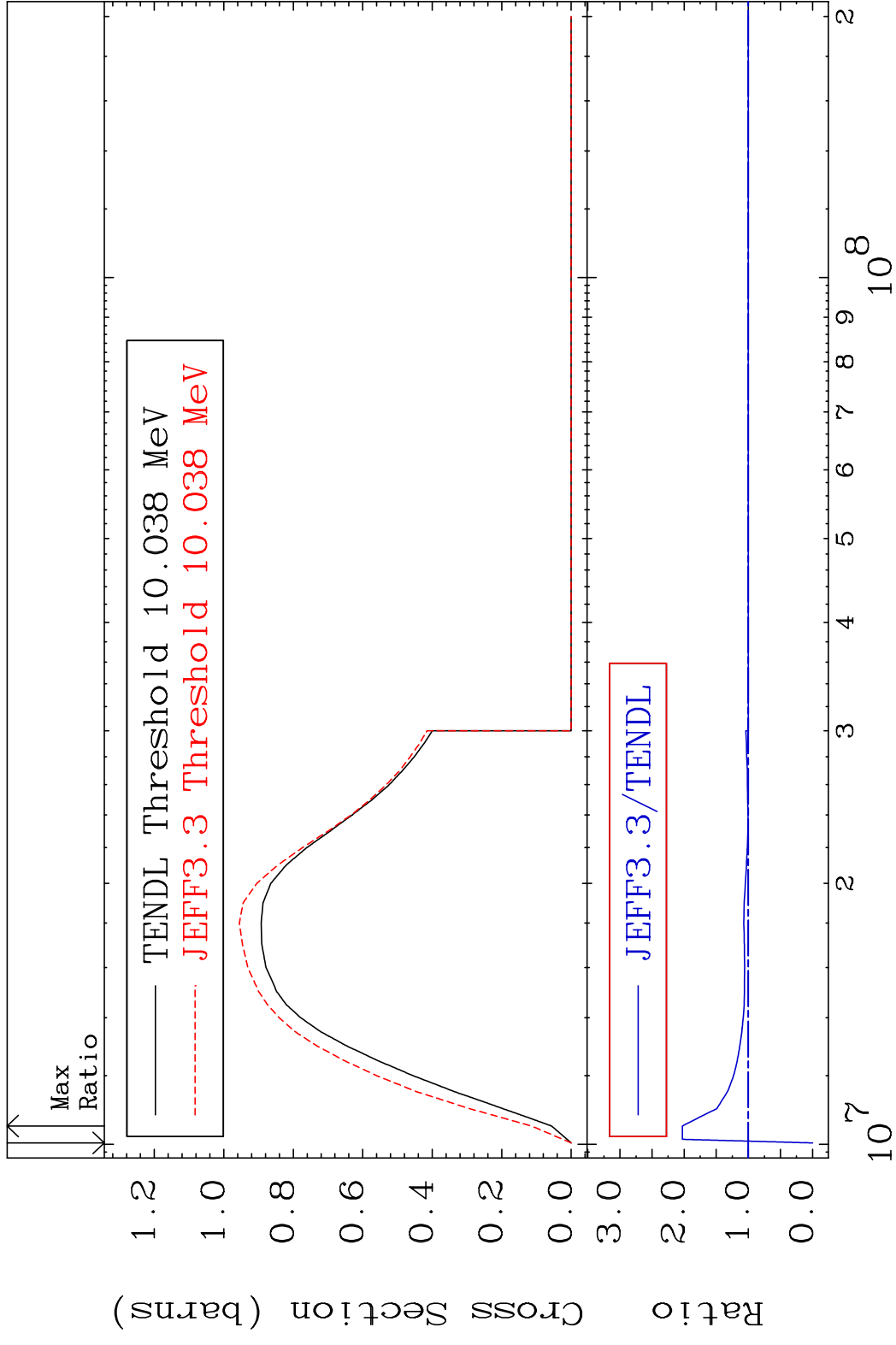


79 Incident Energy (eV) 34-Se-80

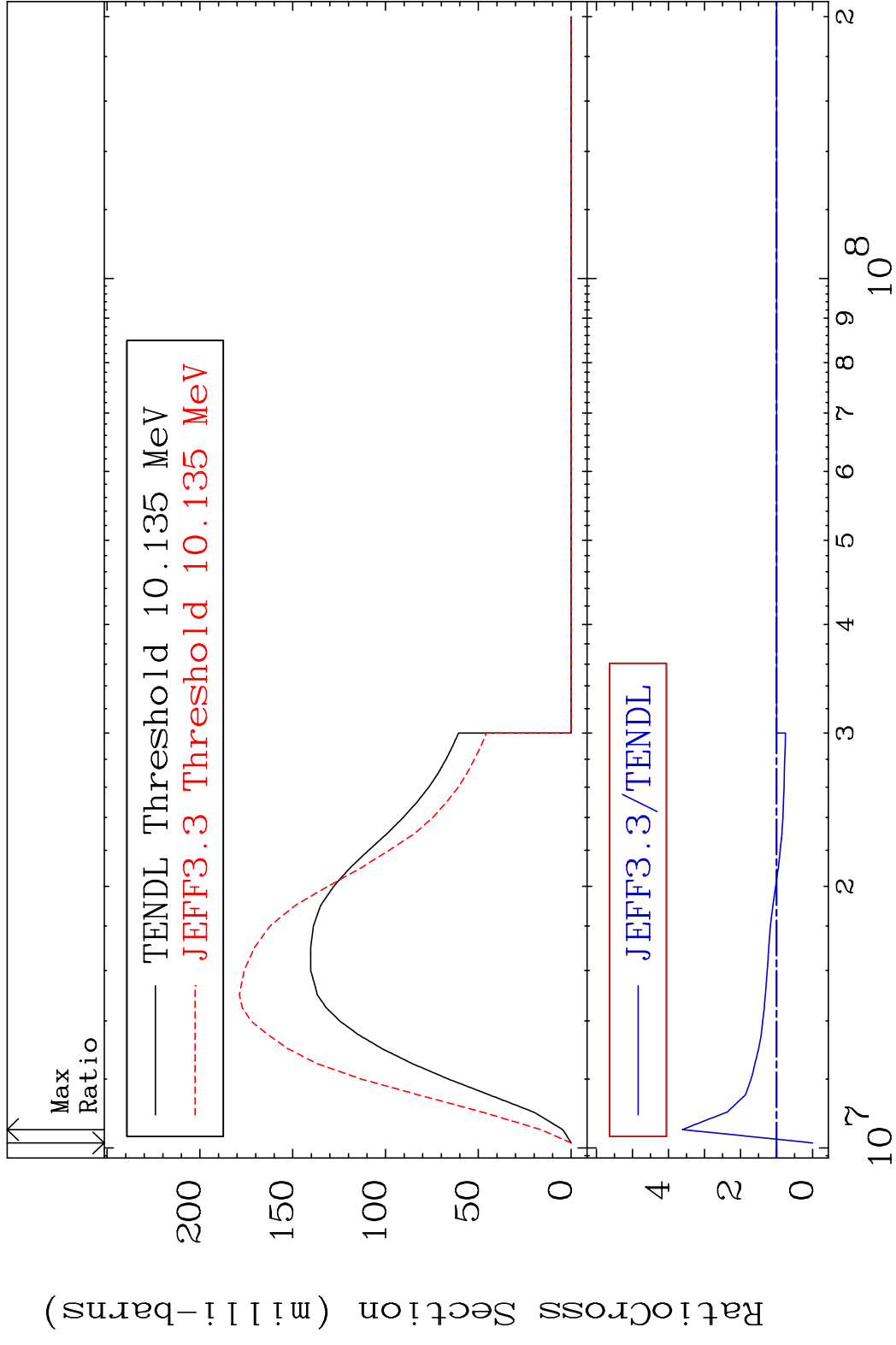
MAT 3443 Dpa disappearance (mt102 -120) 34-Se-80
 Cross Section -99.38 To 9999. %



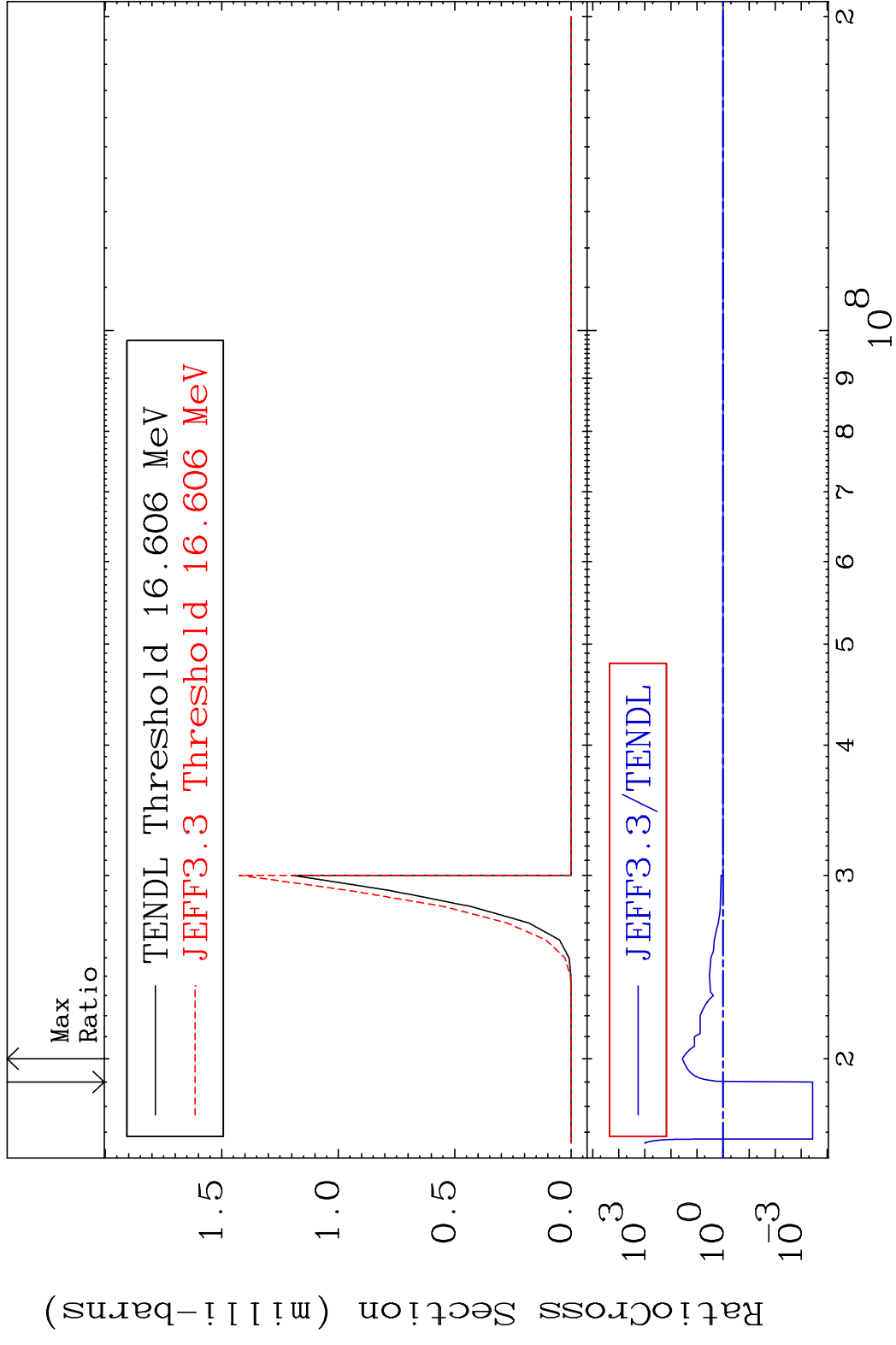
MAT 3443 (n,2n):34-Se-79g 34-Se-80
 Radionuclide Production Cross Section 100.0 dth 102.8 %



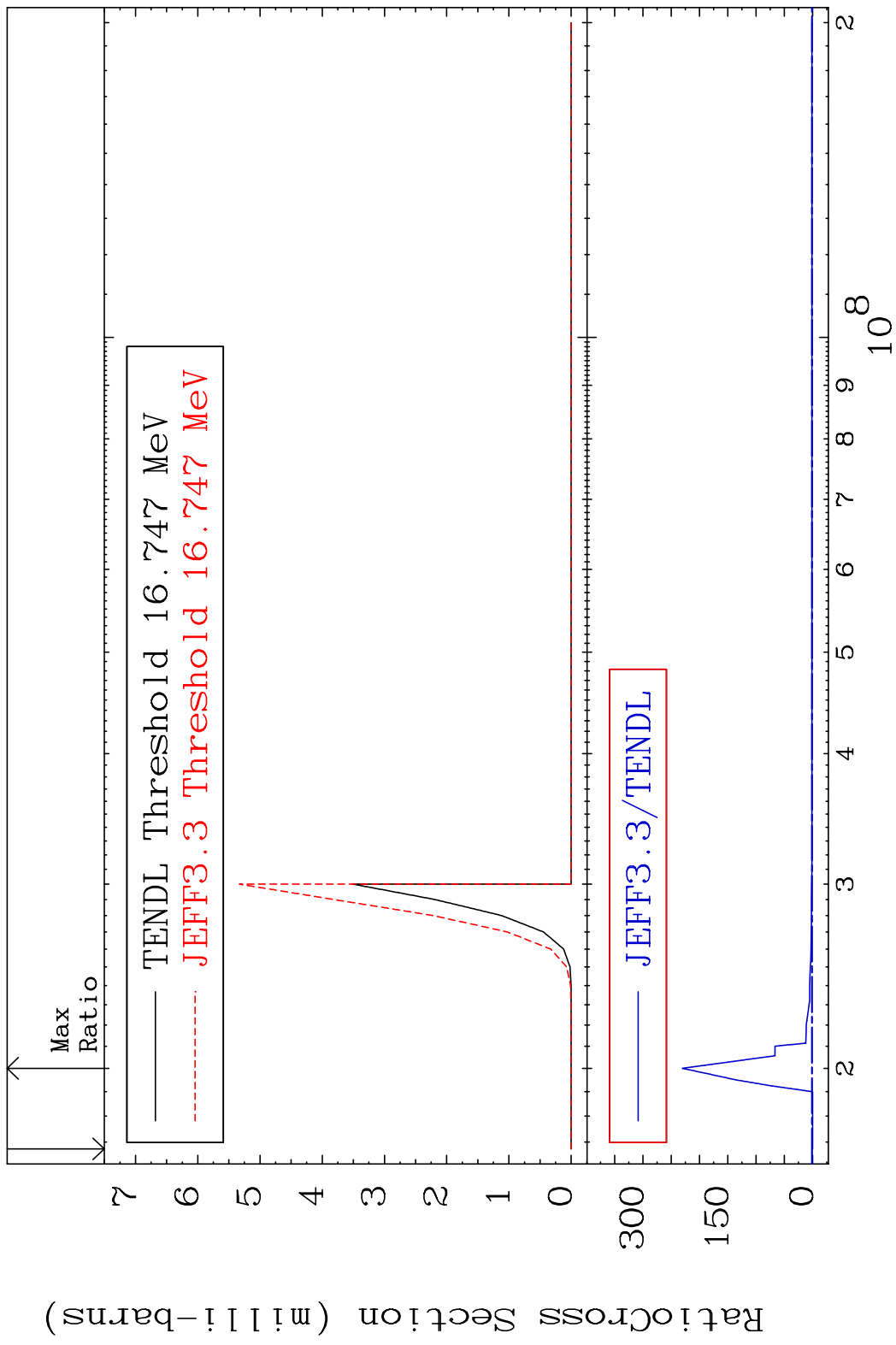
MAT 3443 (n,2n):34-Se-79m1 34-Se-80
 Radionuclide Production Cross Section Ratio 261.4 %

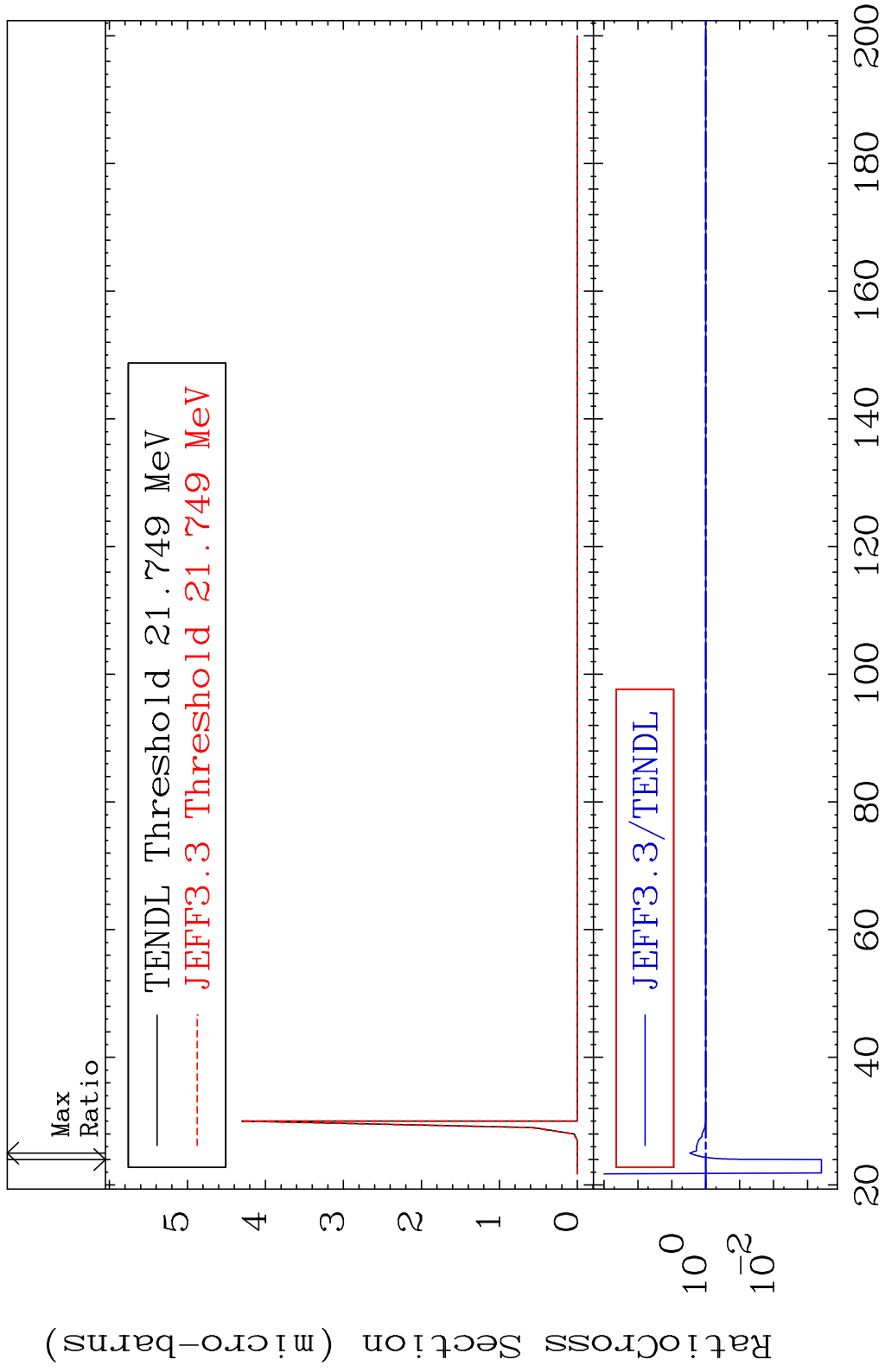


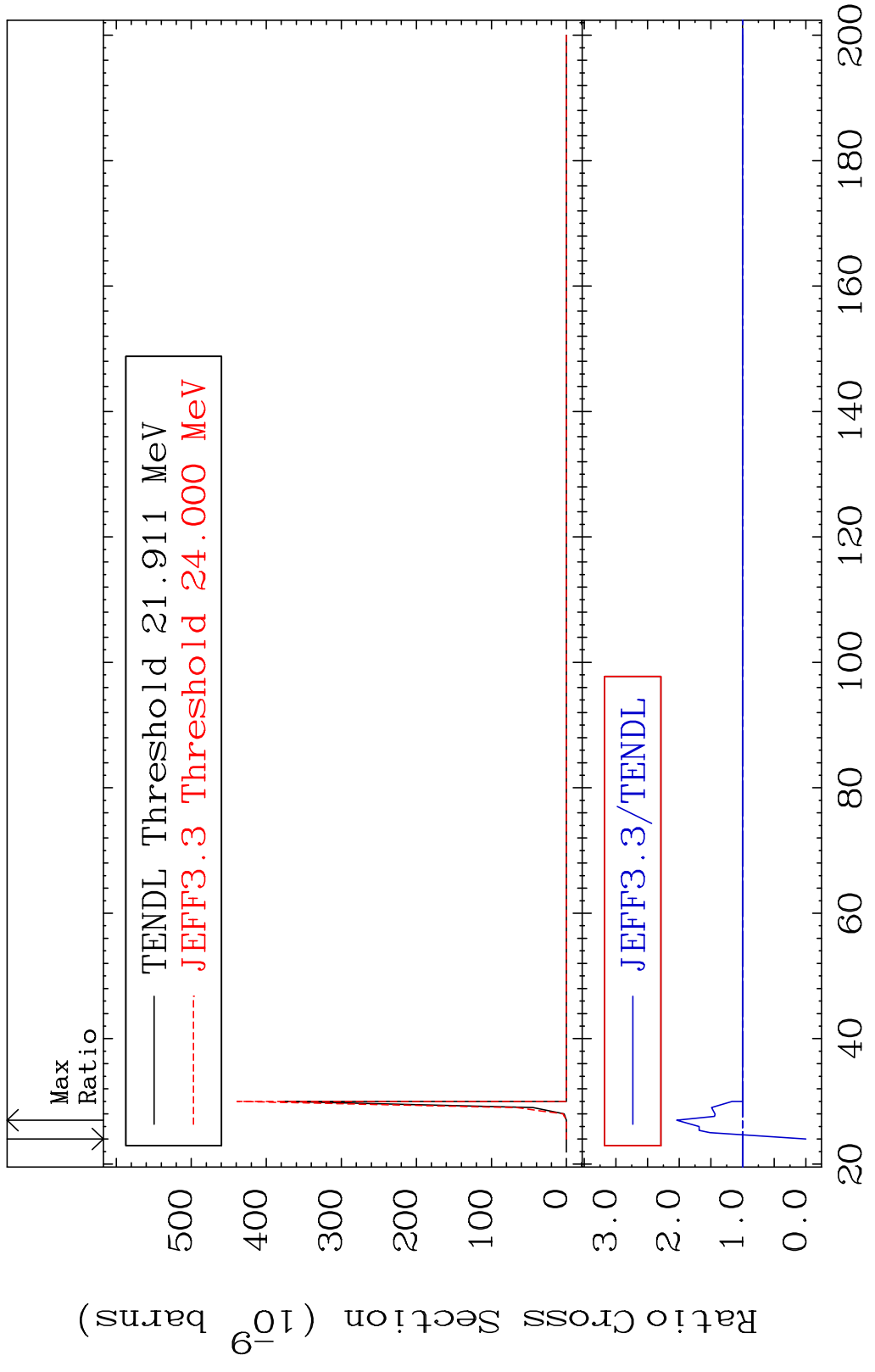
MAT 3443 (n,2n) α :32-Ge-75g 34-Se-80
 Radionuclide Production Cross Section 98.961 dth 3538. %

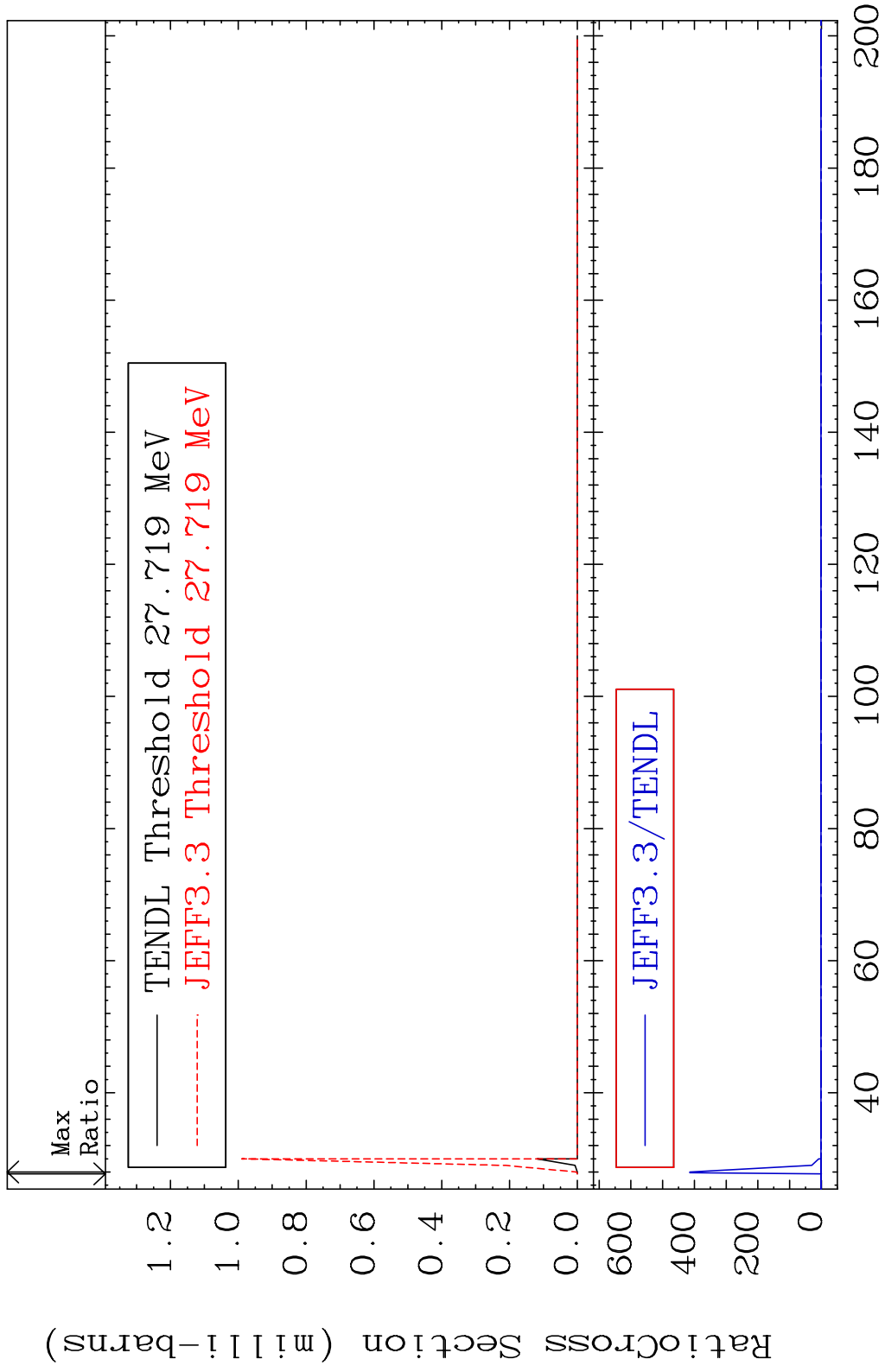


MAT 3443 (n,2n) α :32-Ge-75m2 34-Se-80
 Radionuclide Production Cross Section Ratio

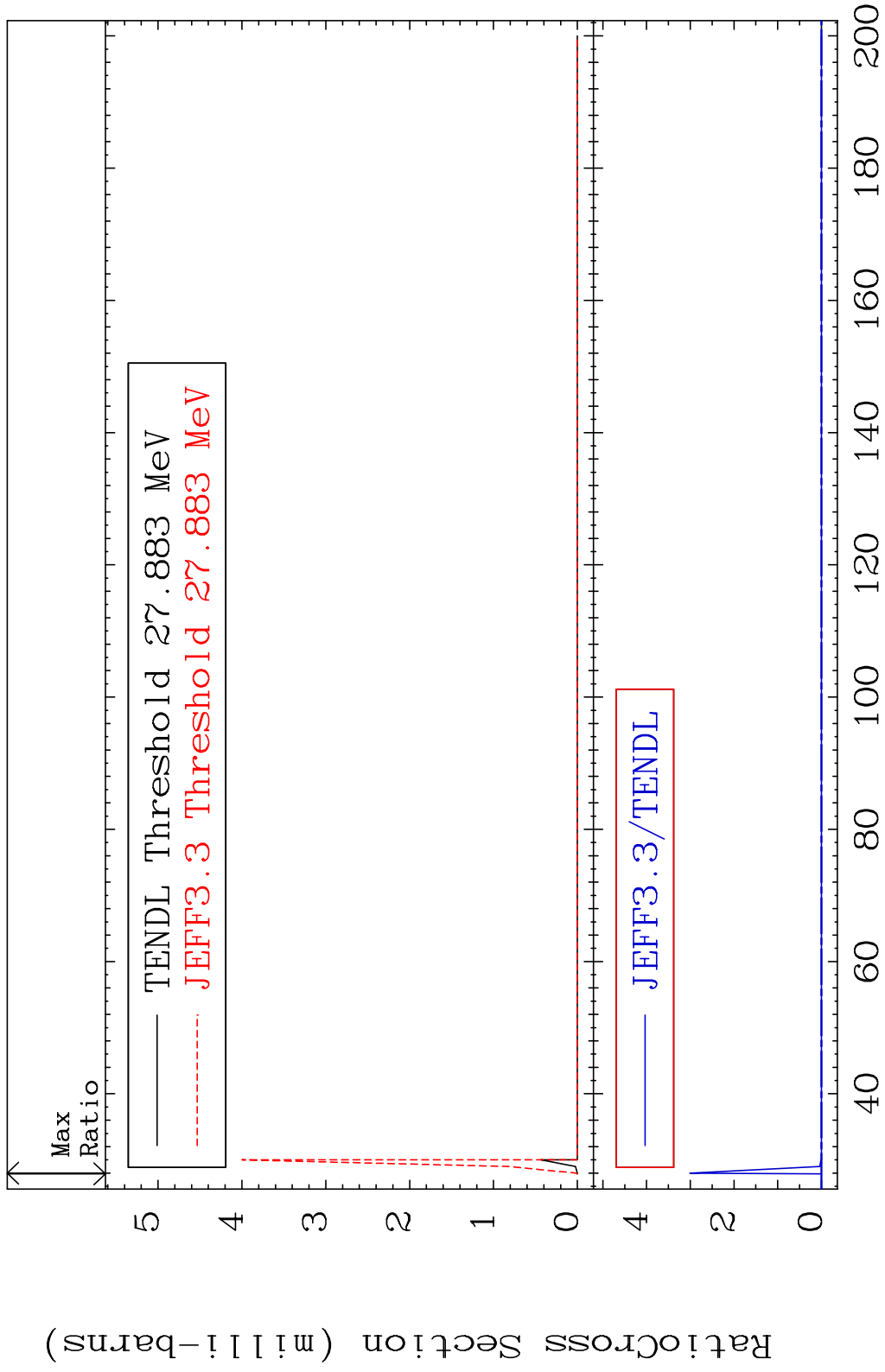




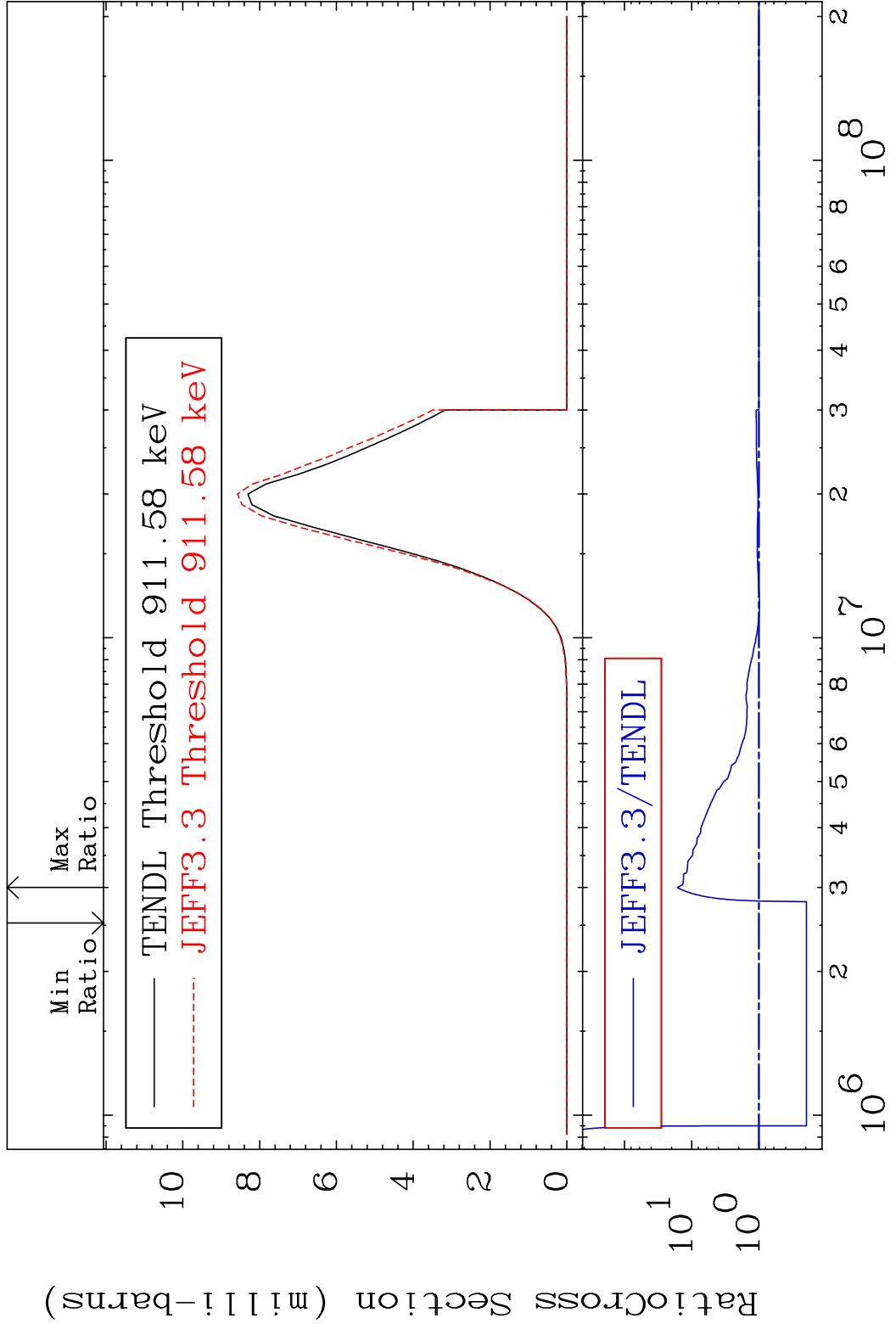




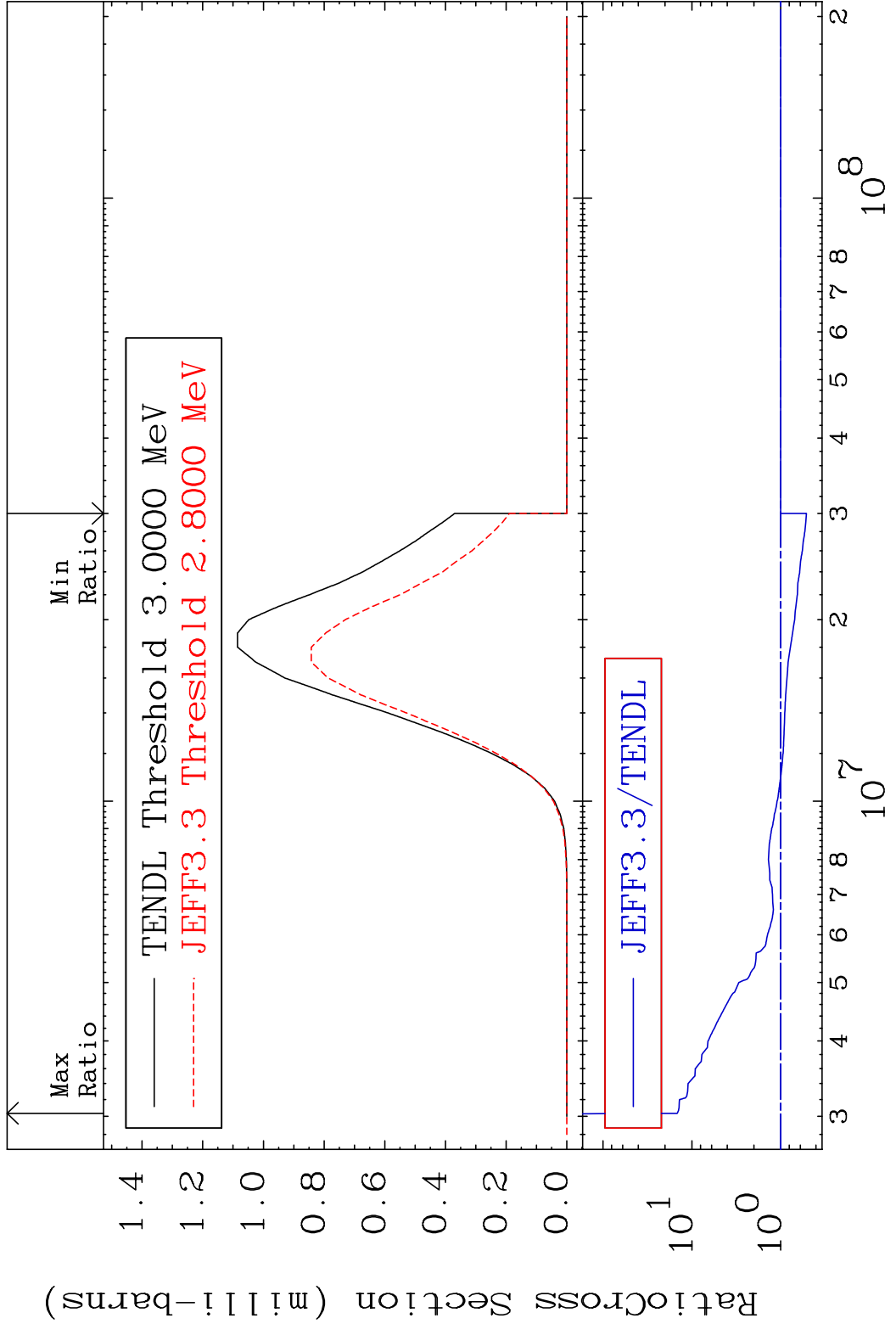
MAT 3443 (n,4n):34-Se-77m1 34-Se-80
 Radionuclide Production Cross Section Ratio 9999. %



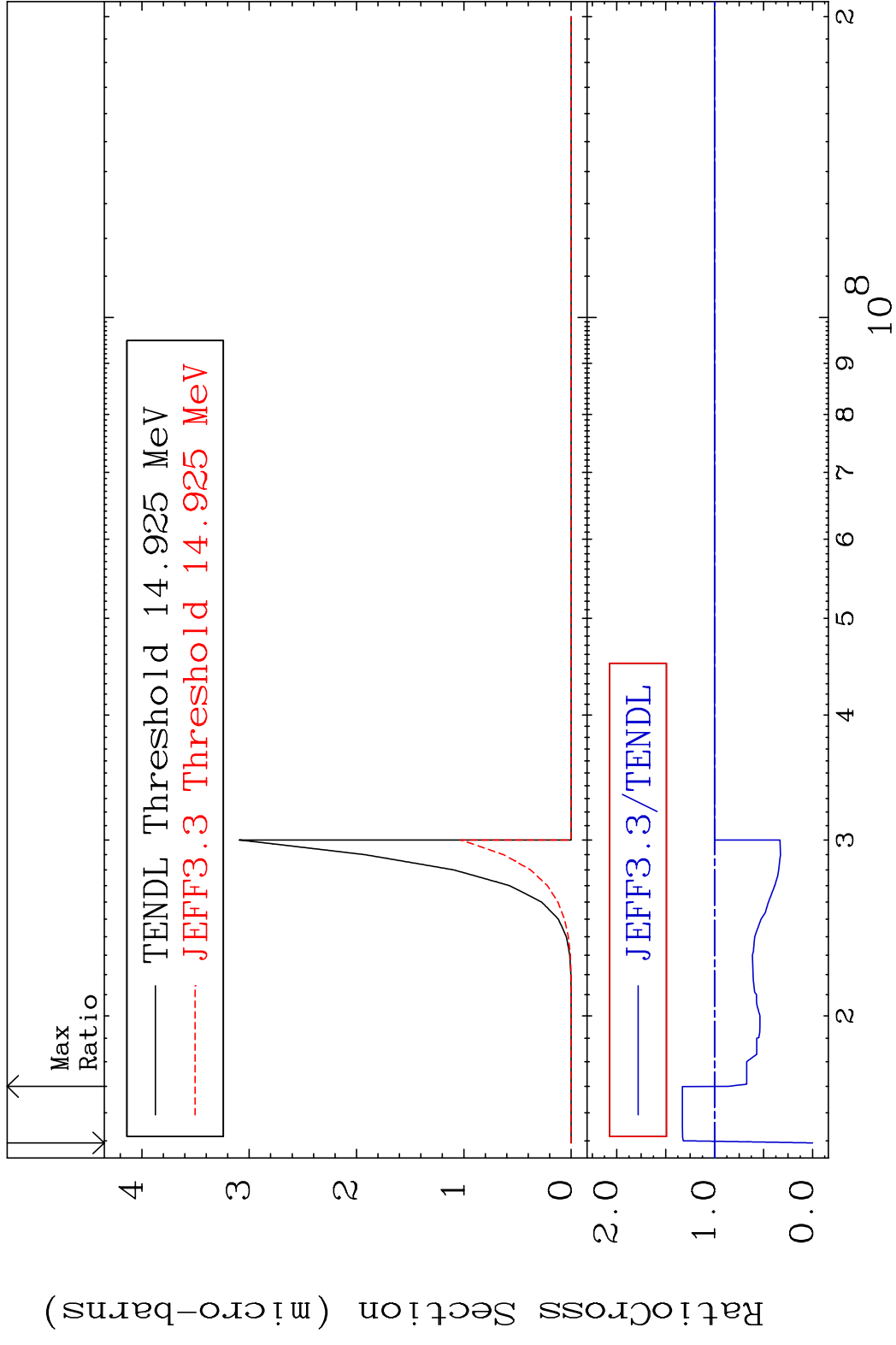
MAT 3443 (n, α): 32-Ge-77g 34-Se-80
 Radionuclide Production Cross Section 886.36 mb 1547. %



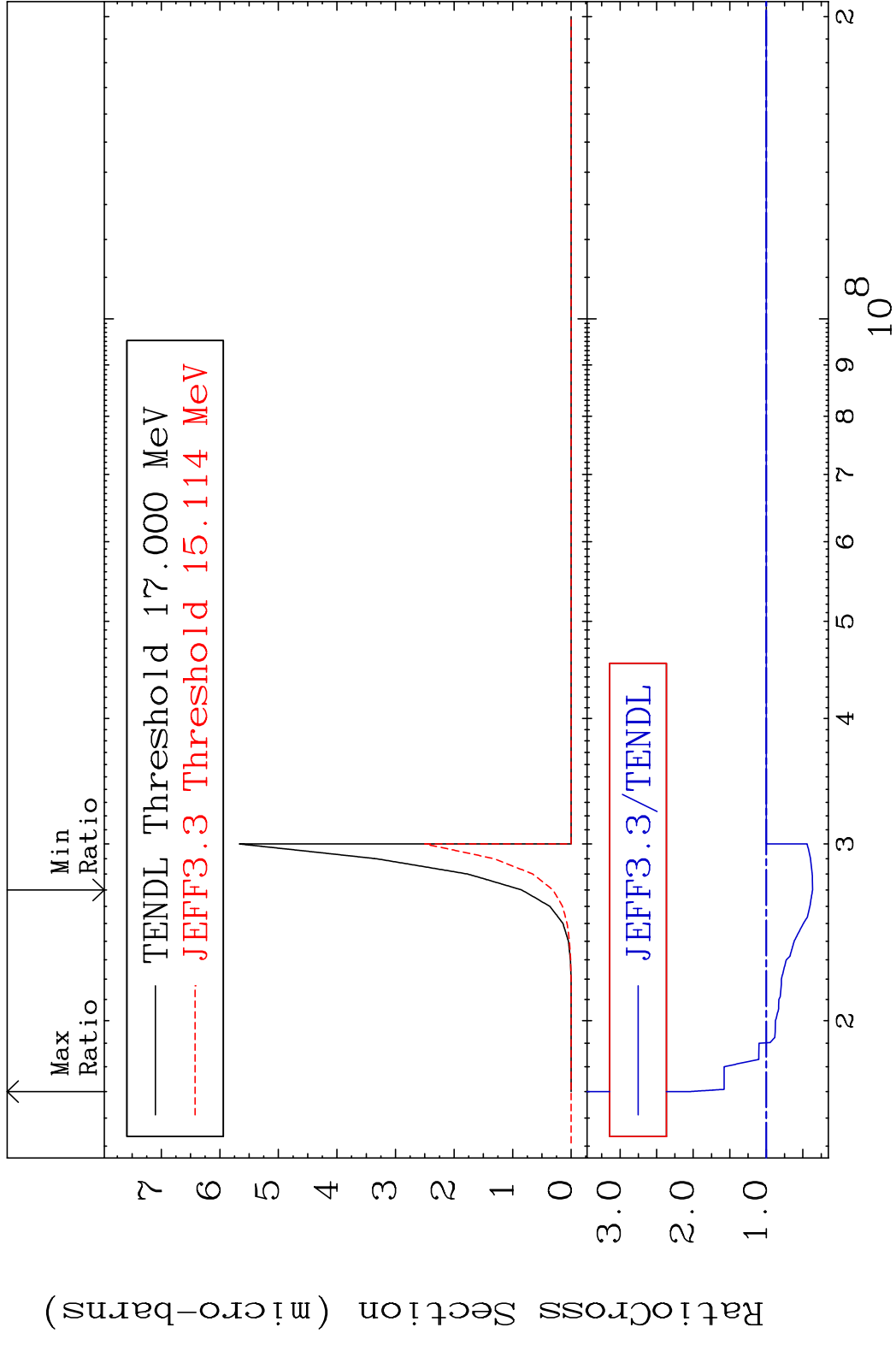
MAT 3443 (n,α):32-Ge-77m1 34-Se-80
 Radionuclide Production Cross Section 1362. %



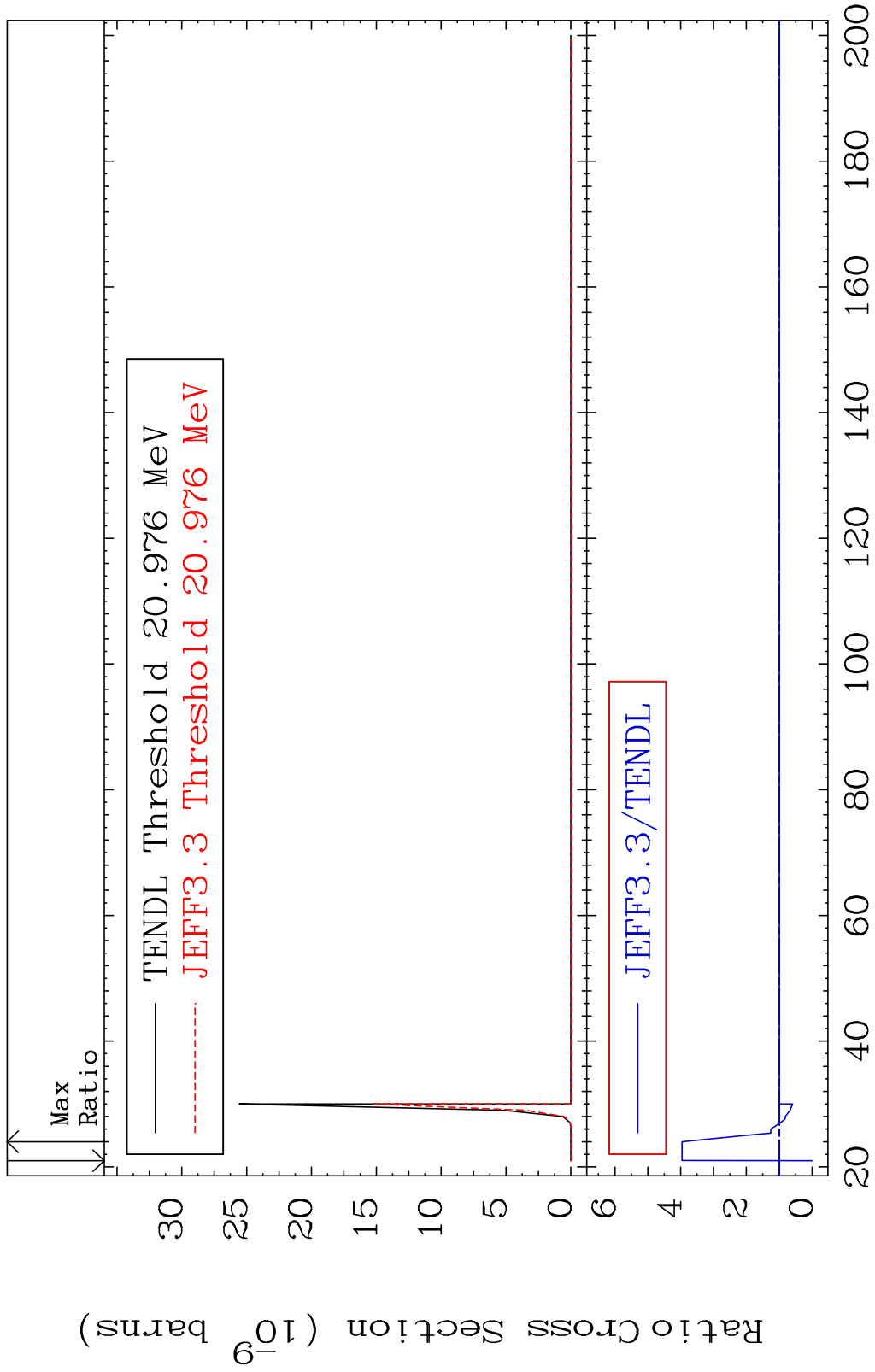
MAT 3443 (n,2p):32-Ge-79g 34-Se-80
 Radionuclide Production Cross Section Ratio



MAT 3443 (n,2p):32-Ge-79m1 34-Se-80
 Radionuclide Production Cross Section 114.8 %



MAT 3443 (n,p) t:32-Ge-77g 34-Se-80
 Radionuclide Production Cross Section Ratio 295.9 %



MAT 3443 (n,p) t:32-Ge-77m1 34-Se-80
 Radionuclide Production Cross Section 180c0i d10 479.5 %

