

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

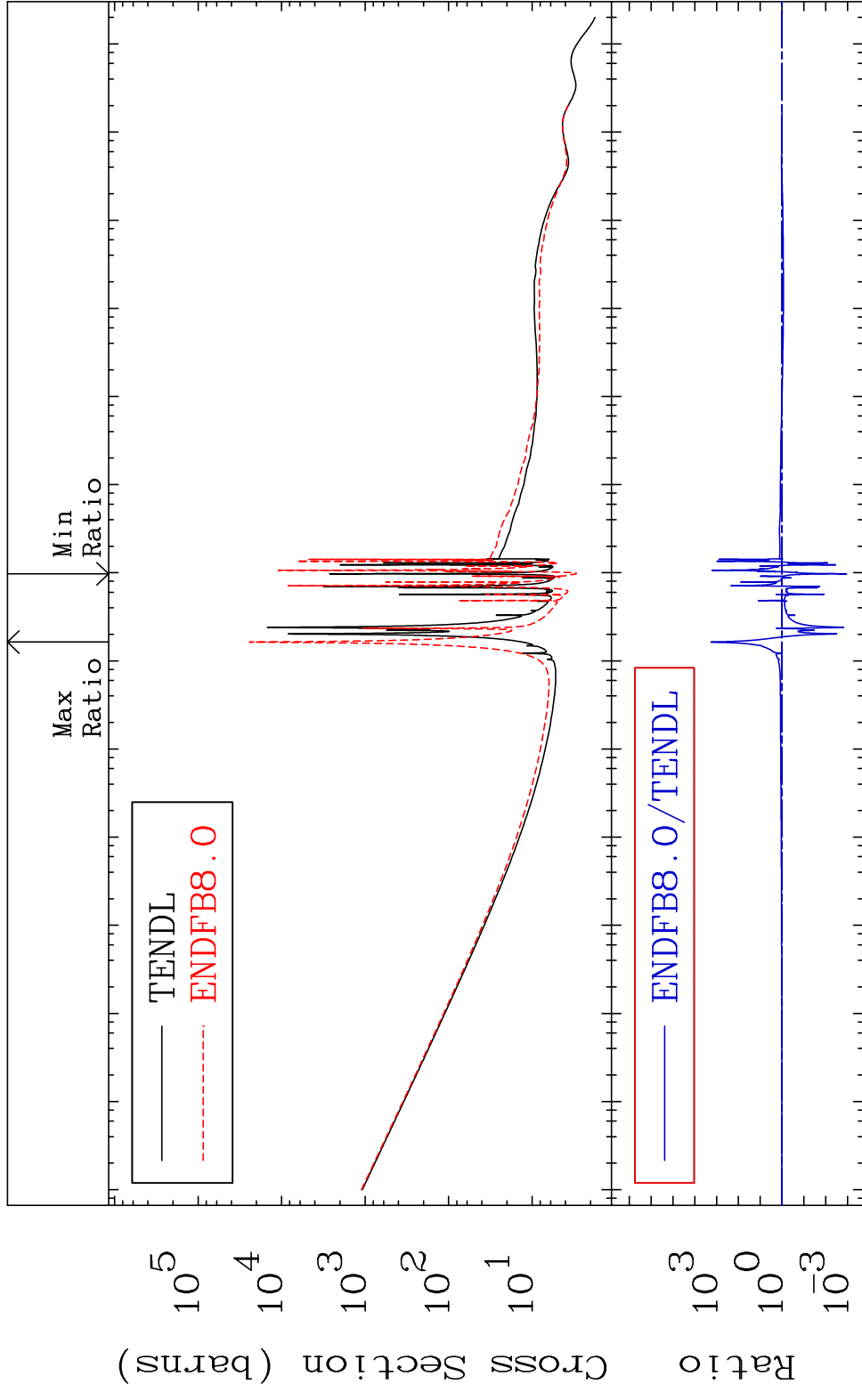
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4628

Total
Cross Section -99.89 To 9999. %

46-Pd-103



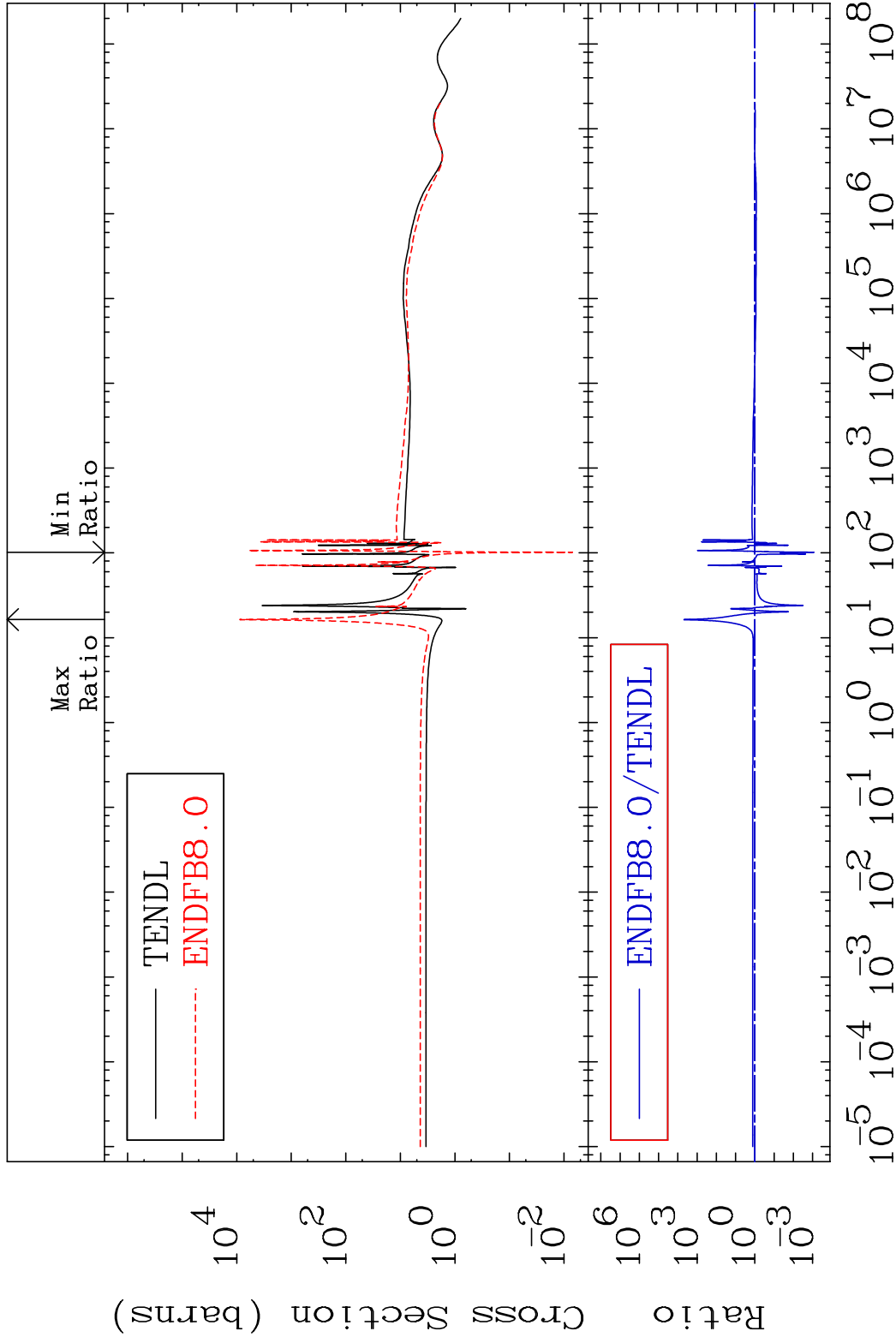
1 Incident Energy (eV) 46-Pd-103

MAT 4628

Elastic

46-Pd-103

Cross Section -99.92 To 9999. %

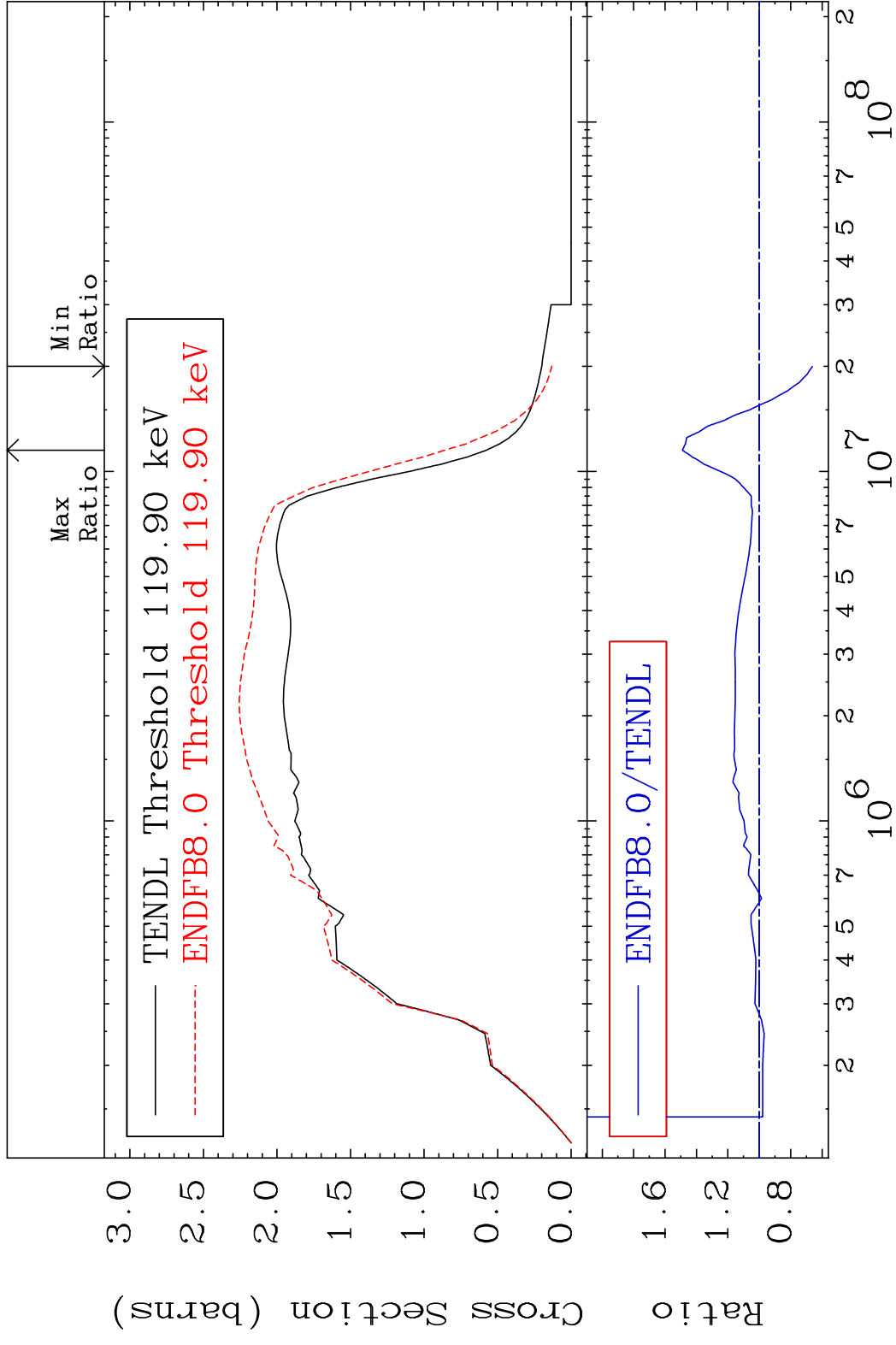


2

Incident Energy (eV)

46-Pd-103

MAT 4628 Inelastic Cross Section 46-Pd-103
 -33.93 To 48.99 %

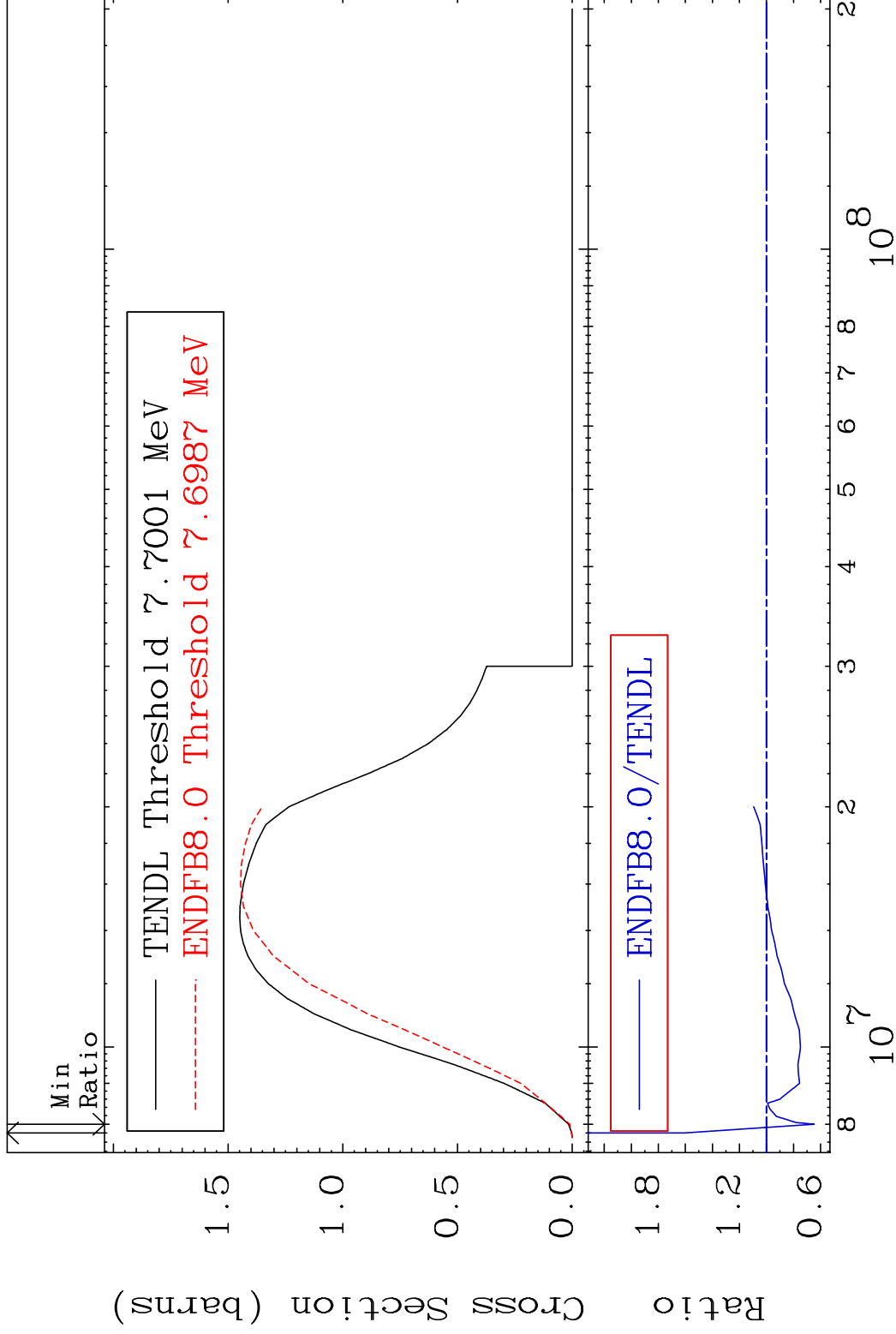


MAT 4628

(n,2n)

46-Pd-103

Cross Section -35.24 To 61.26 %

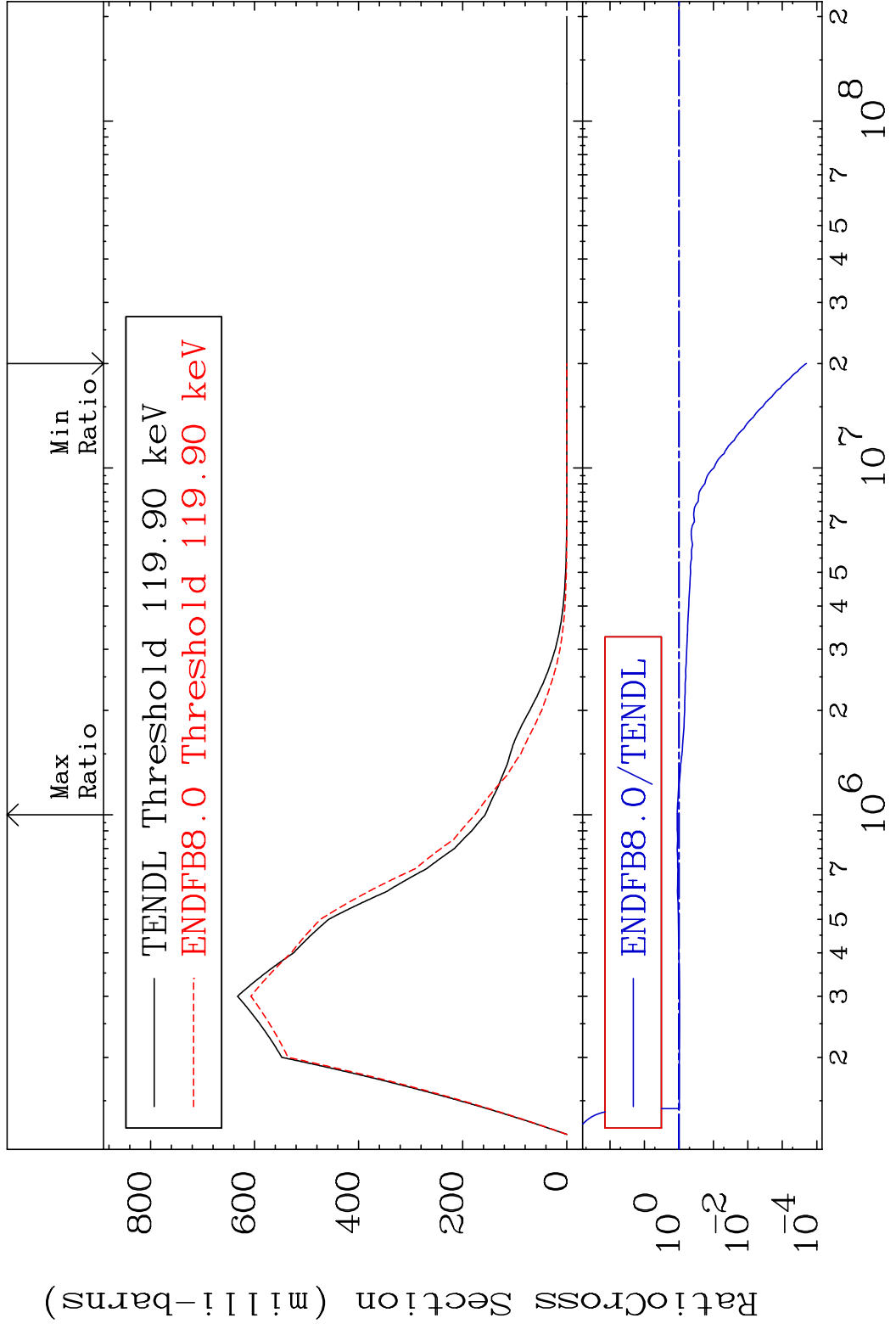


4

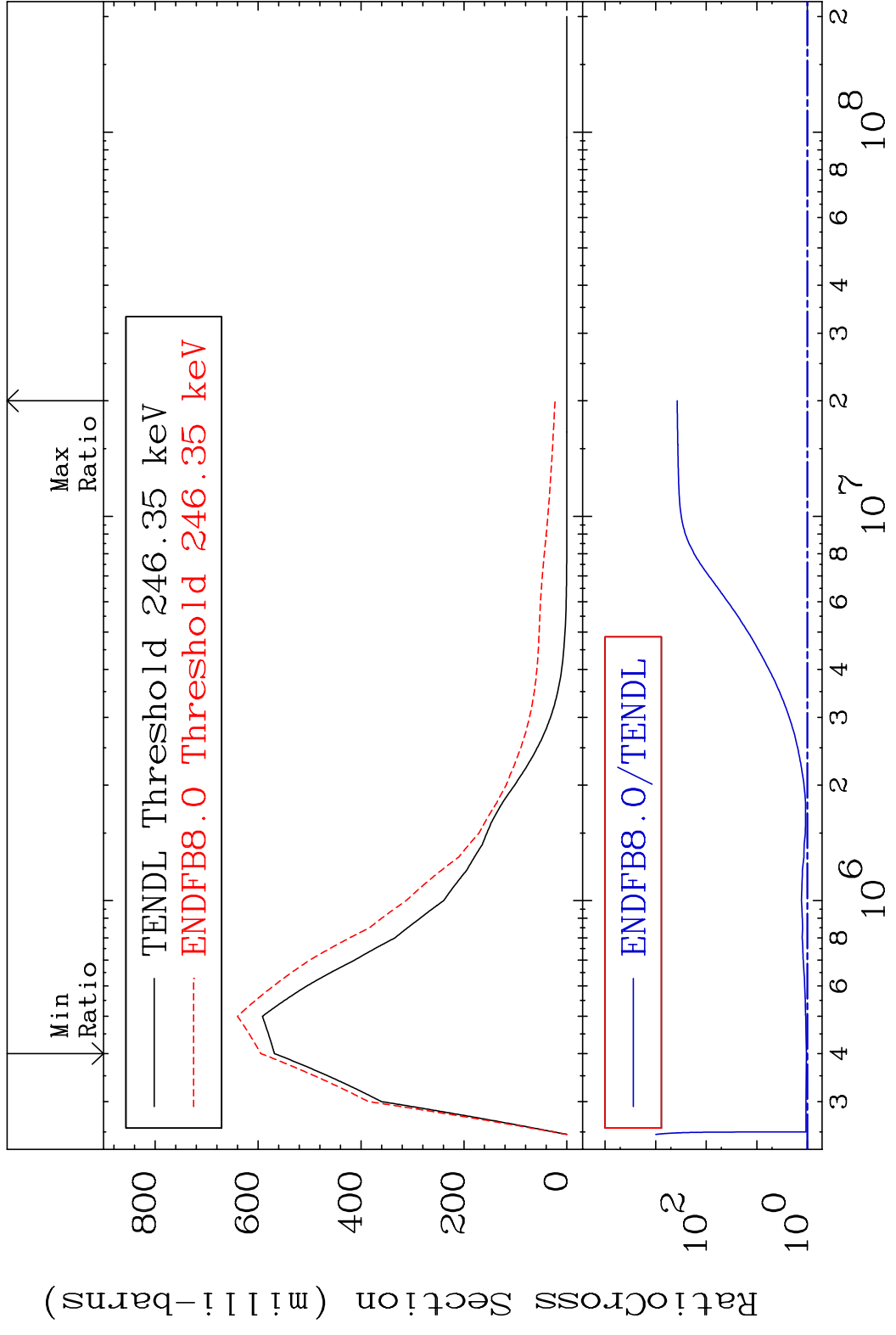
Incident Energy (eV)

46-Pd-103

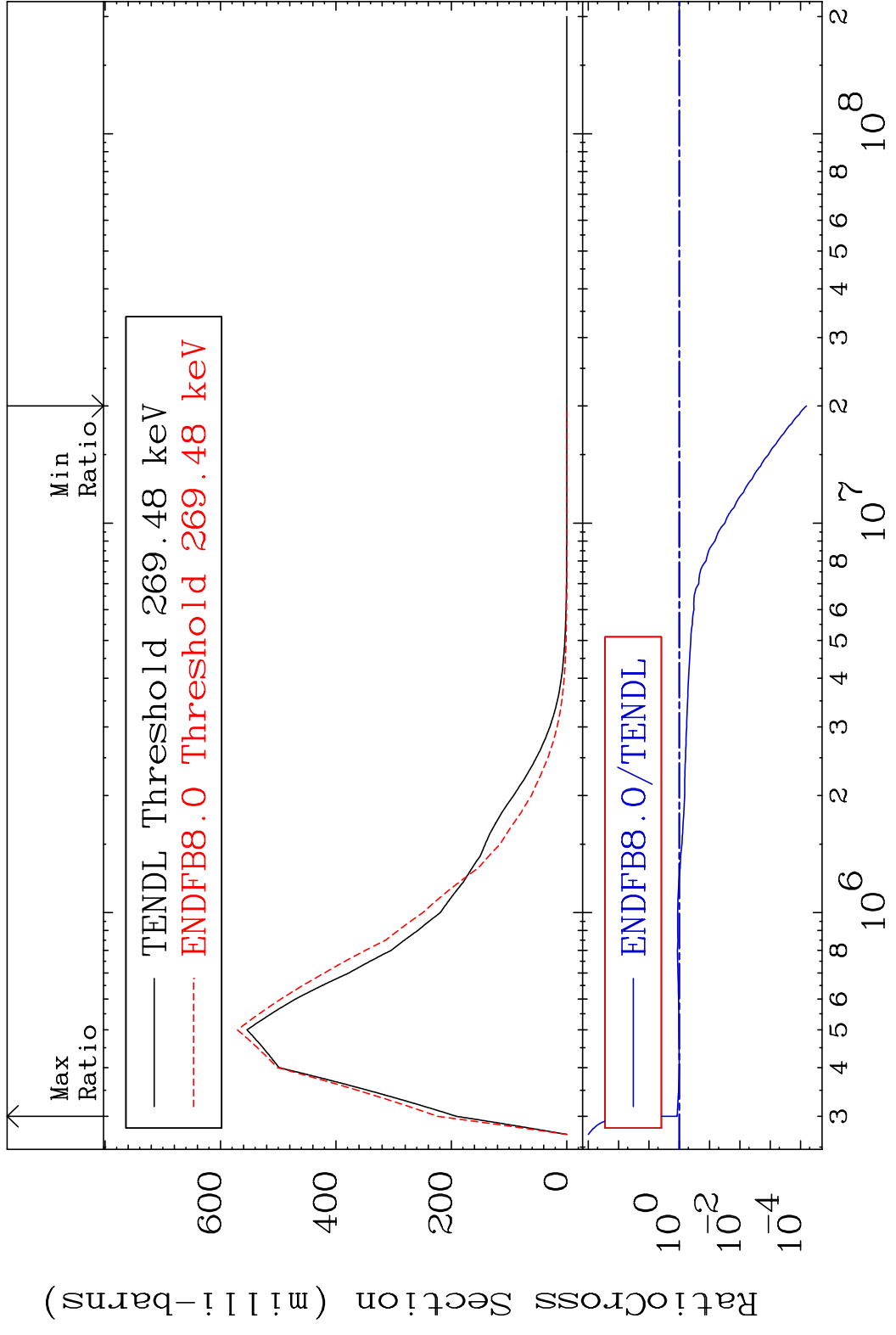
MAT 4628 MT= 51 (n,n') Level 46-Pd-103
 Cross Section -99.98 To 12.62 %



MAT 4628 MT= 52 (n, n') Level 46-Pd-103
 Cross Section 4.683 To 9999. %

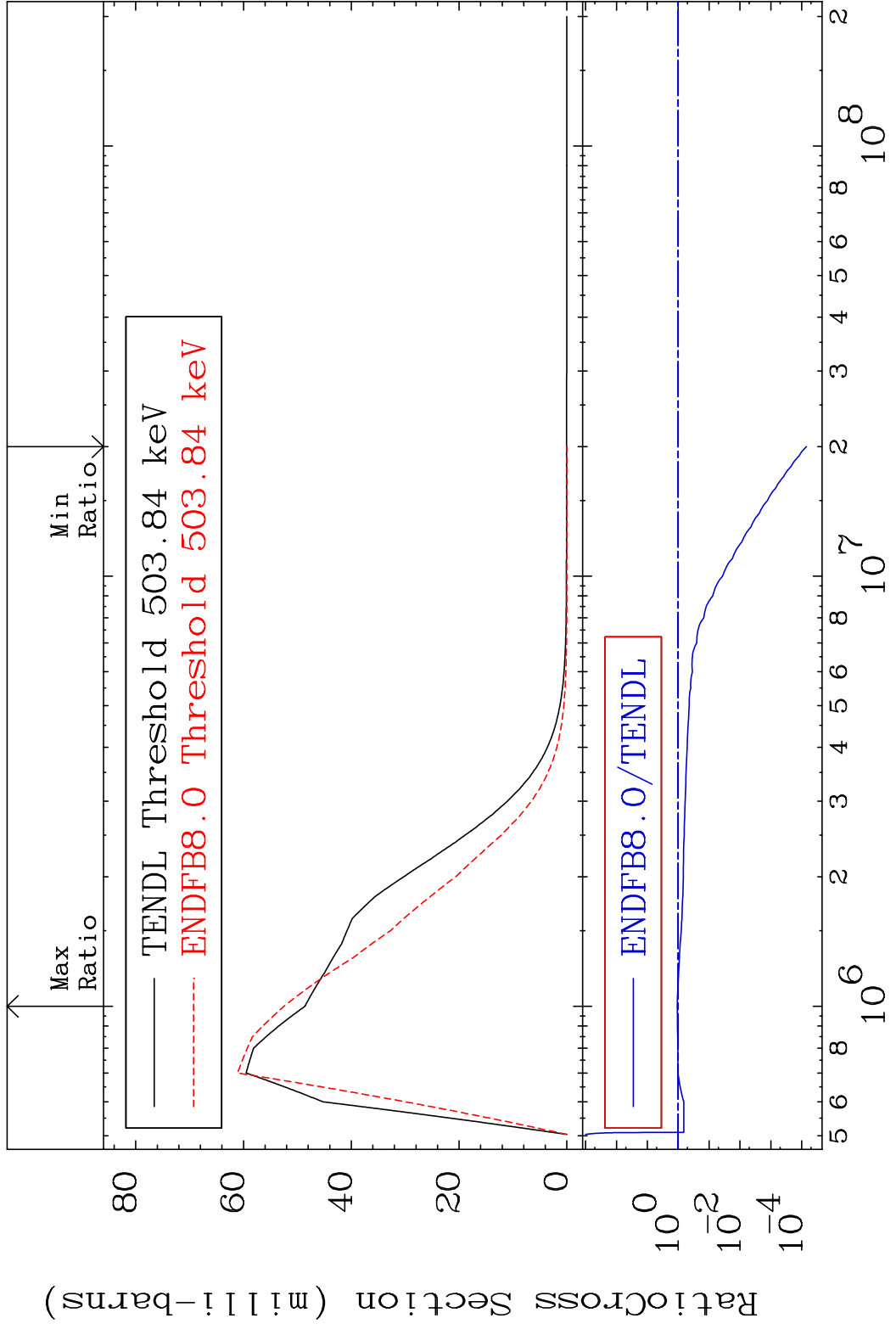


MAT 4628 MT= 53 (n,n') Level 46-Pd-103
 Cross Section -99.99 To 17.18 %



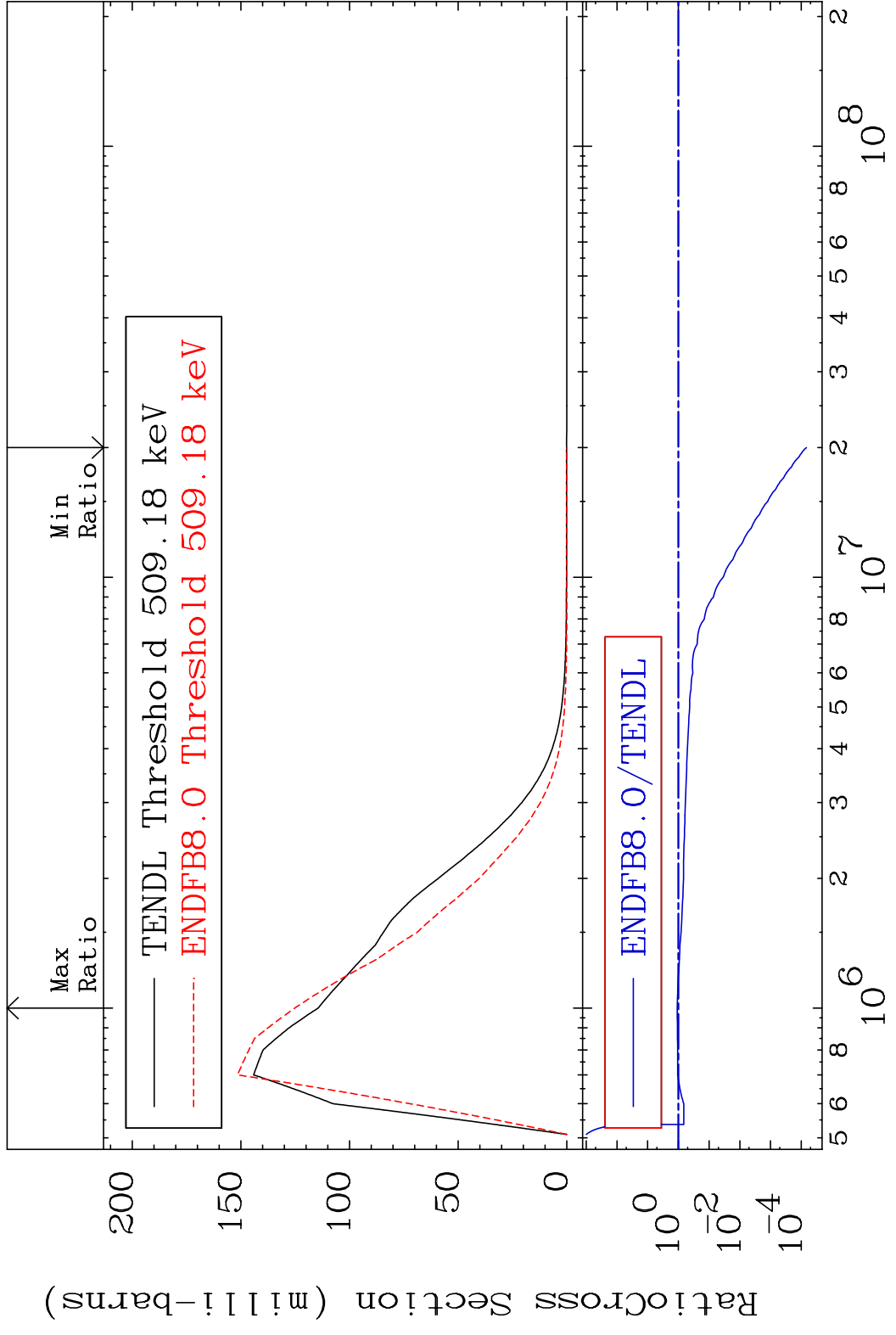
7 Incident Energy (eV) 46-Pd-103

MAT 4628 MT= 54 (n, n') Level 46-Pd-103
 Cross Section -99.99 To 8.021 %

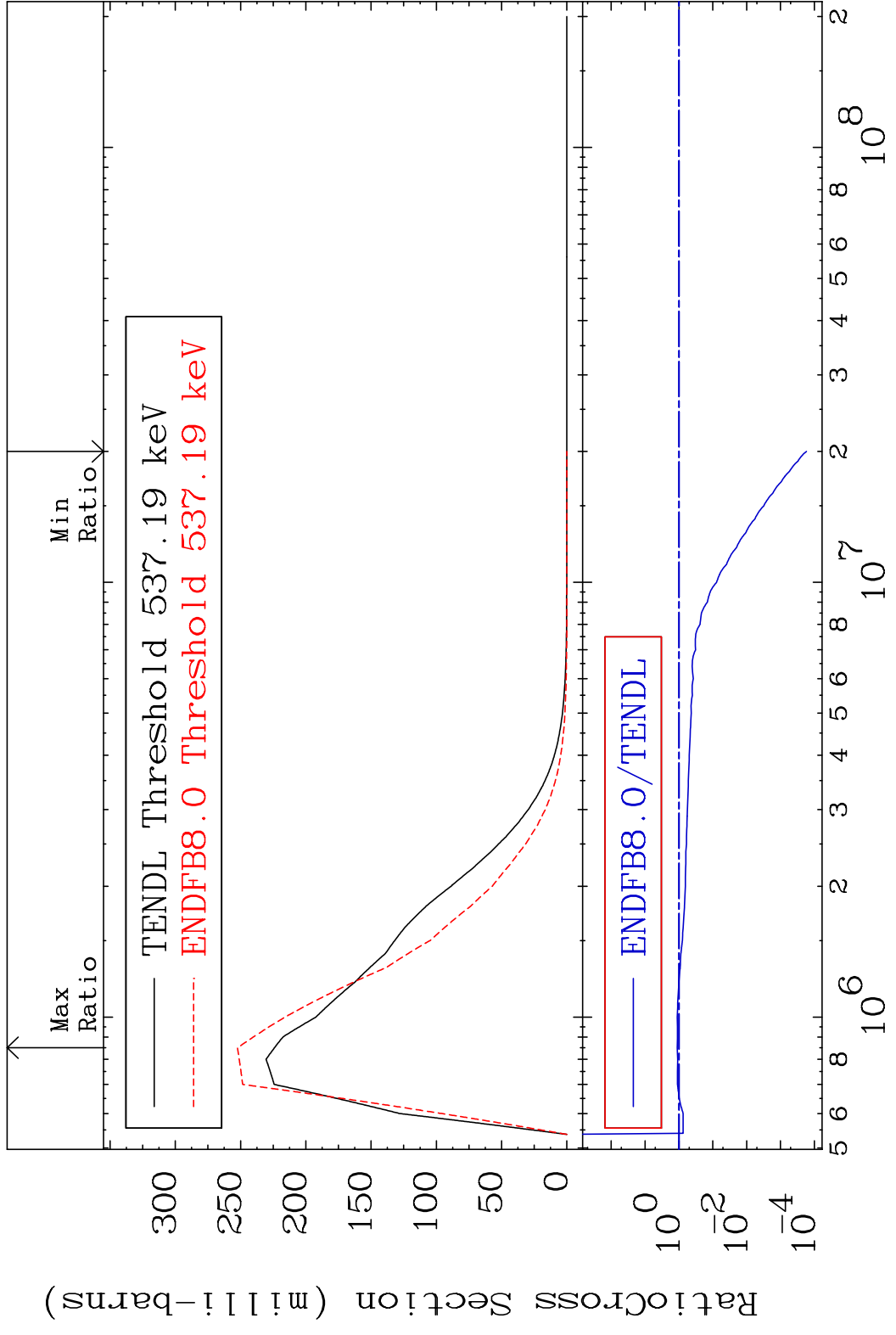


8 Incident Energy (eV) 46-Pd-103

MAT 4628 MT= 55 (n, n') Level 46-Pd-103
 Cross Section -99.99 To 9.358 %

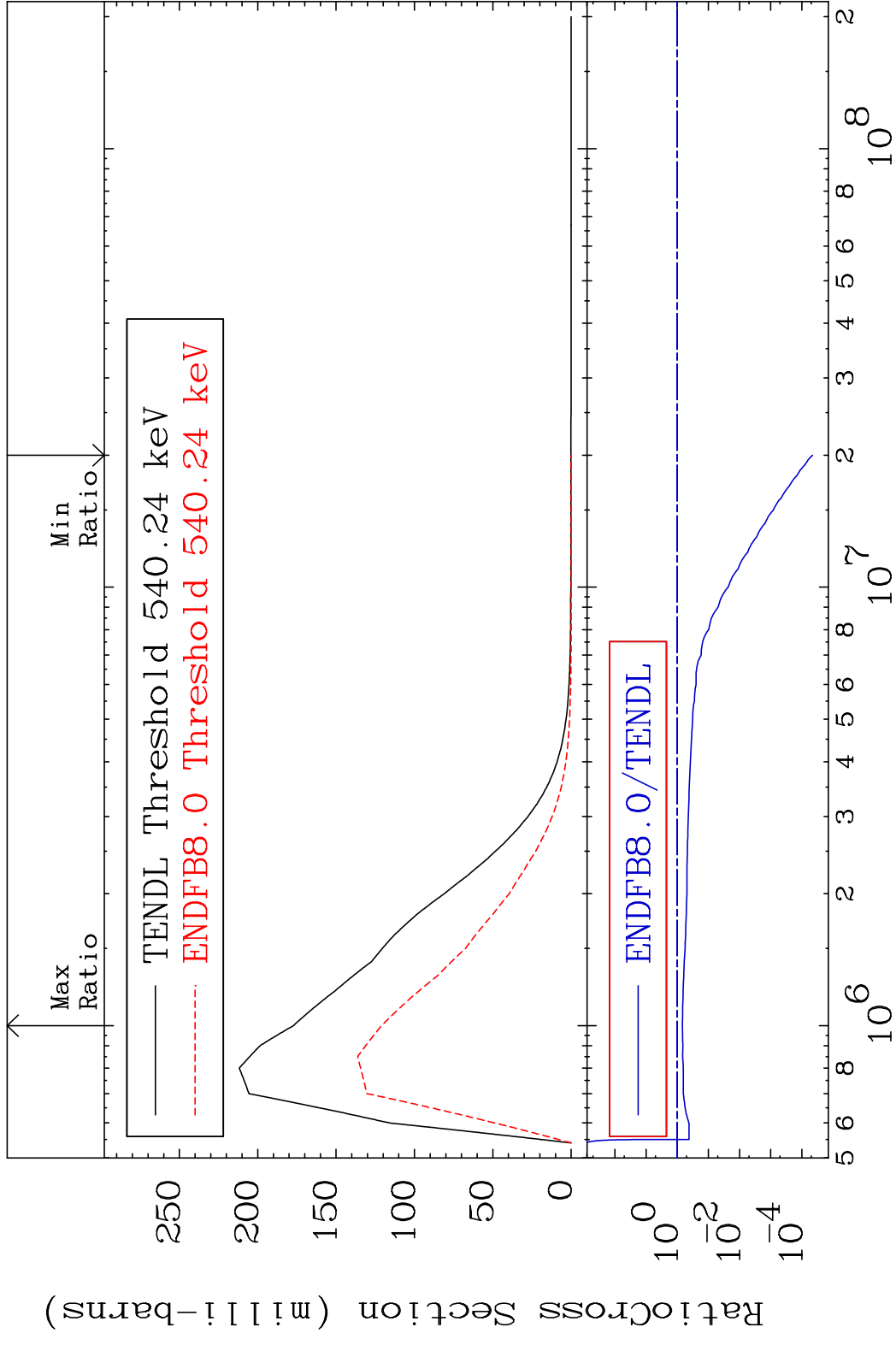


MAT 4628 MT= 56 (n, n') Level 46-Pd-103
 Cross Section -99.98 To 12.64 %

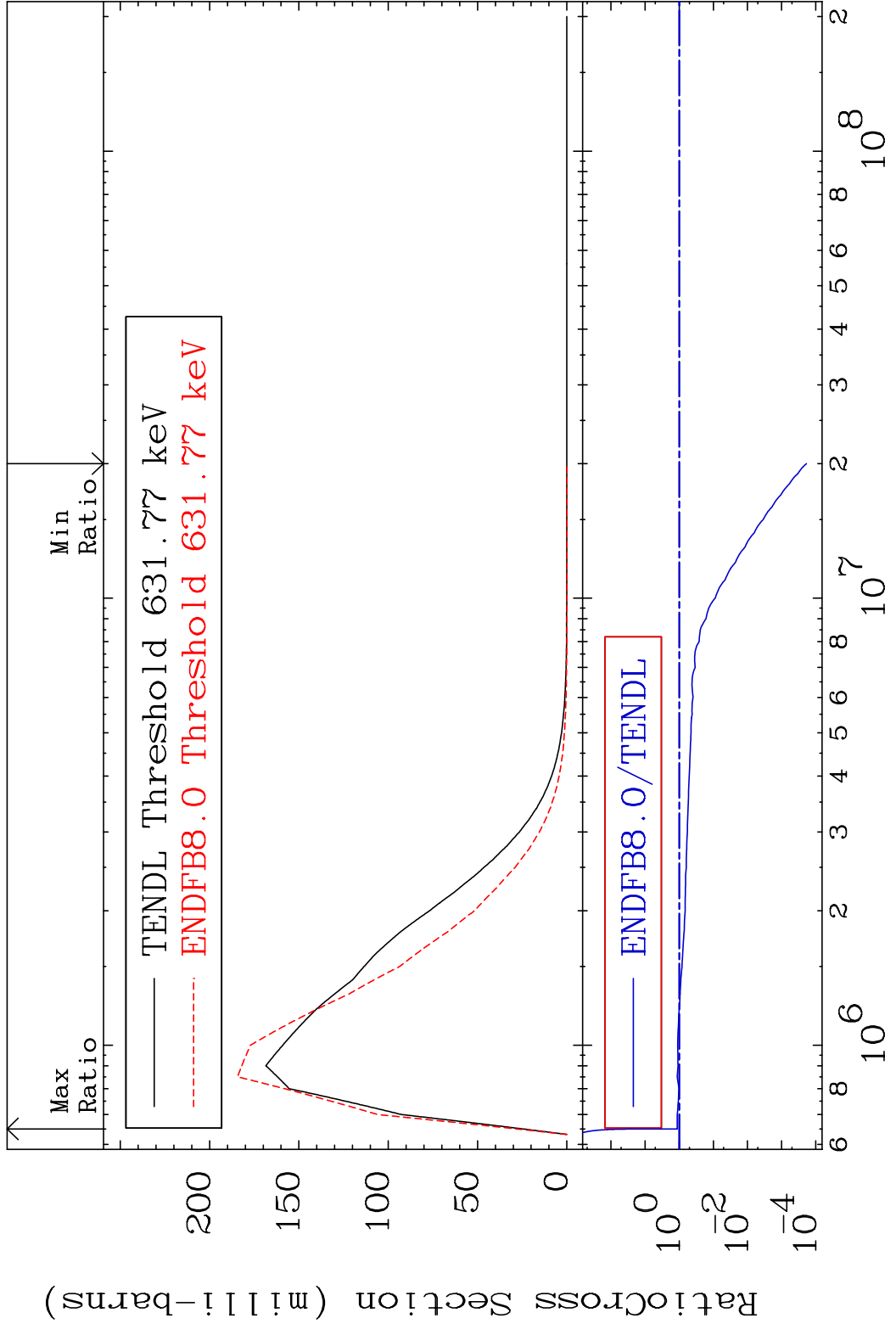


10 Incident Energy (eV) 46-Pd-103

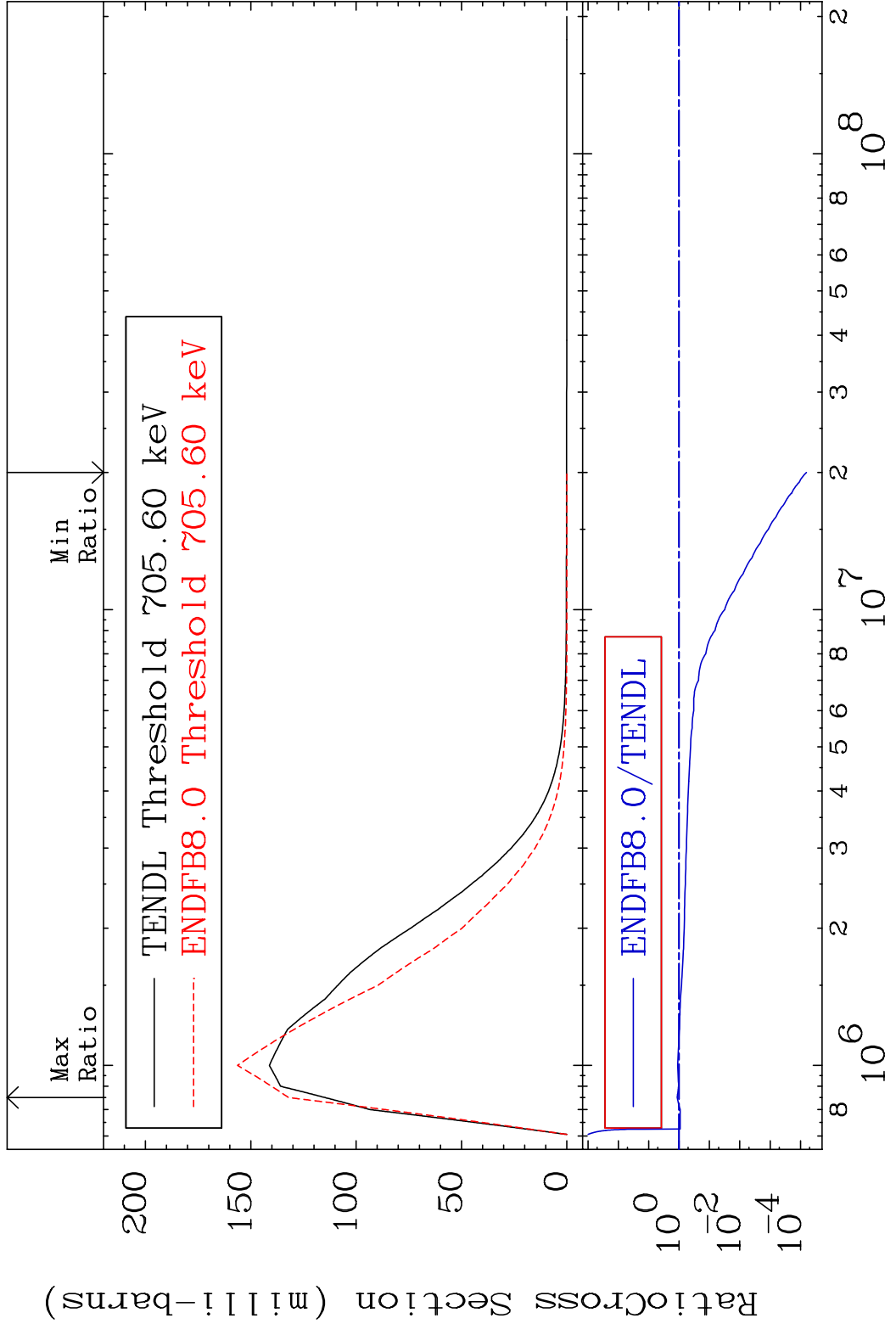
MAT 4628 MT= 57 (n, n') Level 46-Pd-103
 Cross Section -100.0 To -31.75%



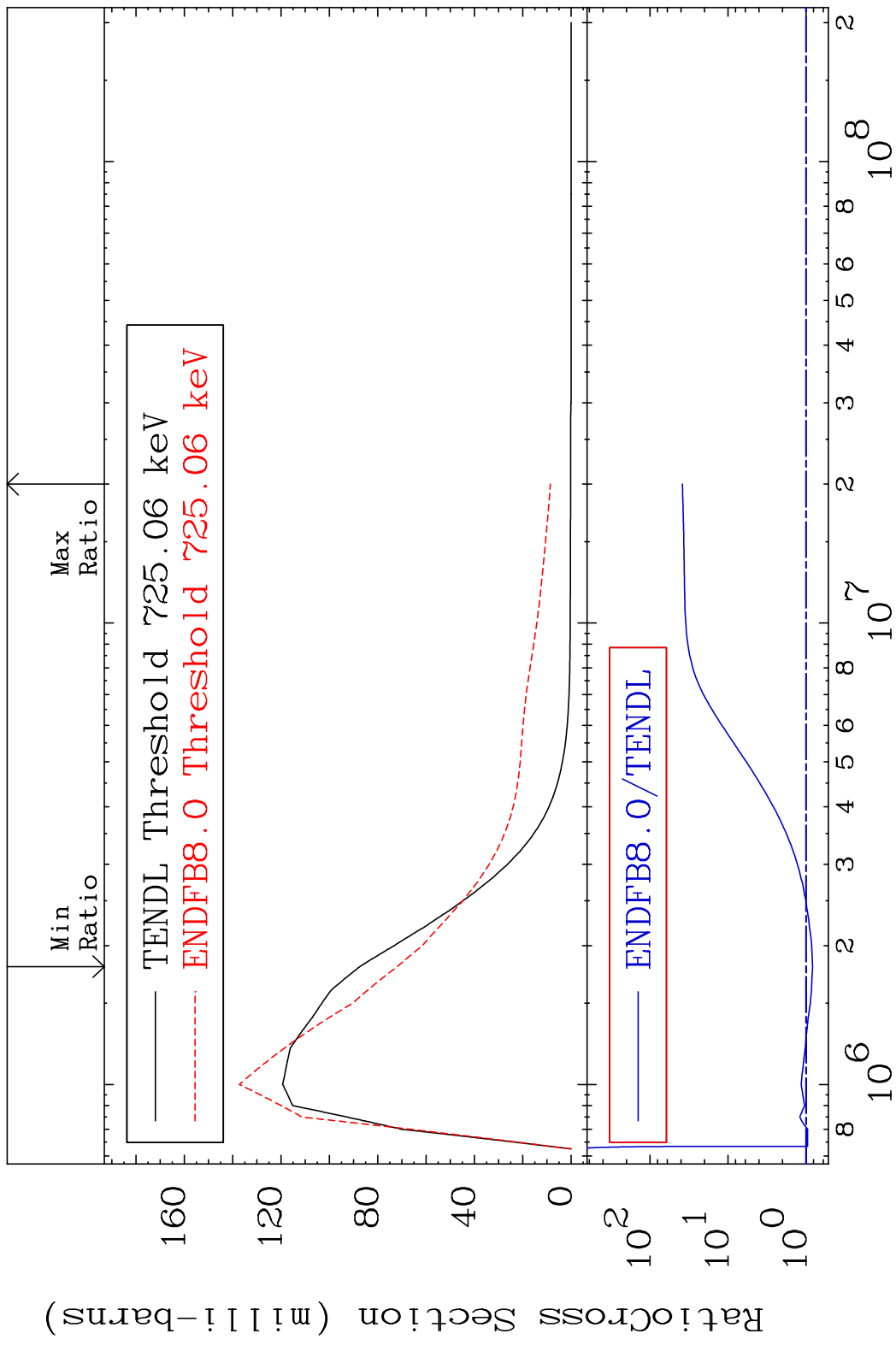
MAT 4628 MT= 58 (n, n') Level 46-Pd-103
 Cross Section -99.98 To 14.43 %



MAT 4628 MT= 59 (n, n') Level 46-Pd-103
 Cross Section -99.99 To 15.16 %

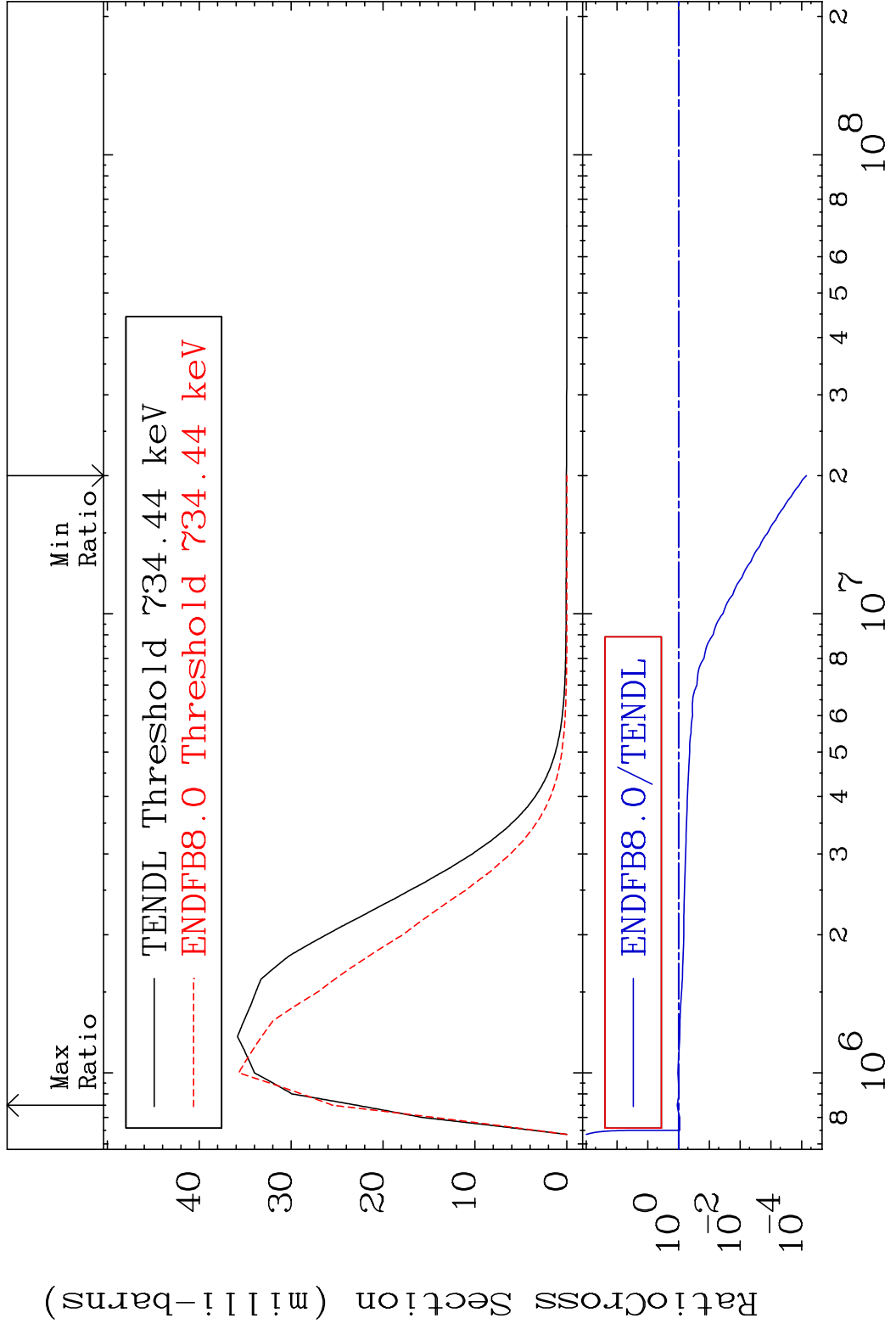


MAT 4628 MT= 60 (n, n') Level 46-Pd-103
 Cross Section -17.72 To 3743. %



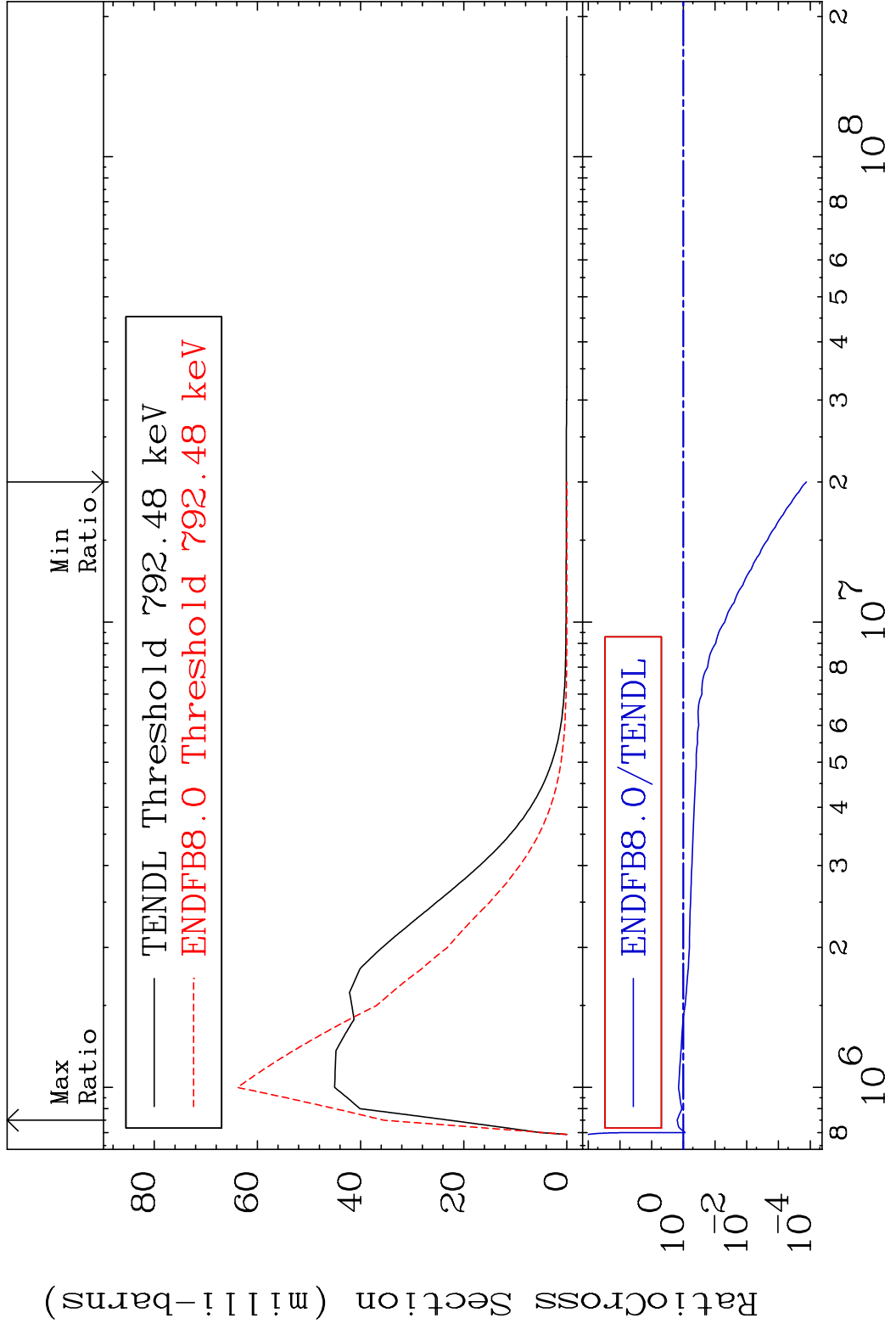
14 Incident Energy (eV) 46-Pd-103

MAT 4628 MT= 61 (n, n') Level 46-Pd-103
 Cross Section -99.99 To 11.52 %



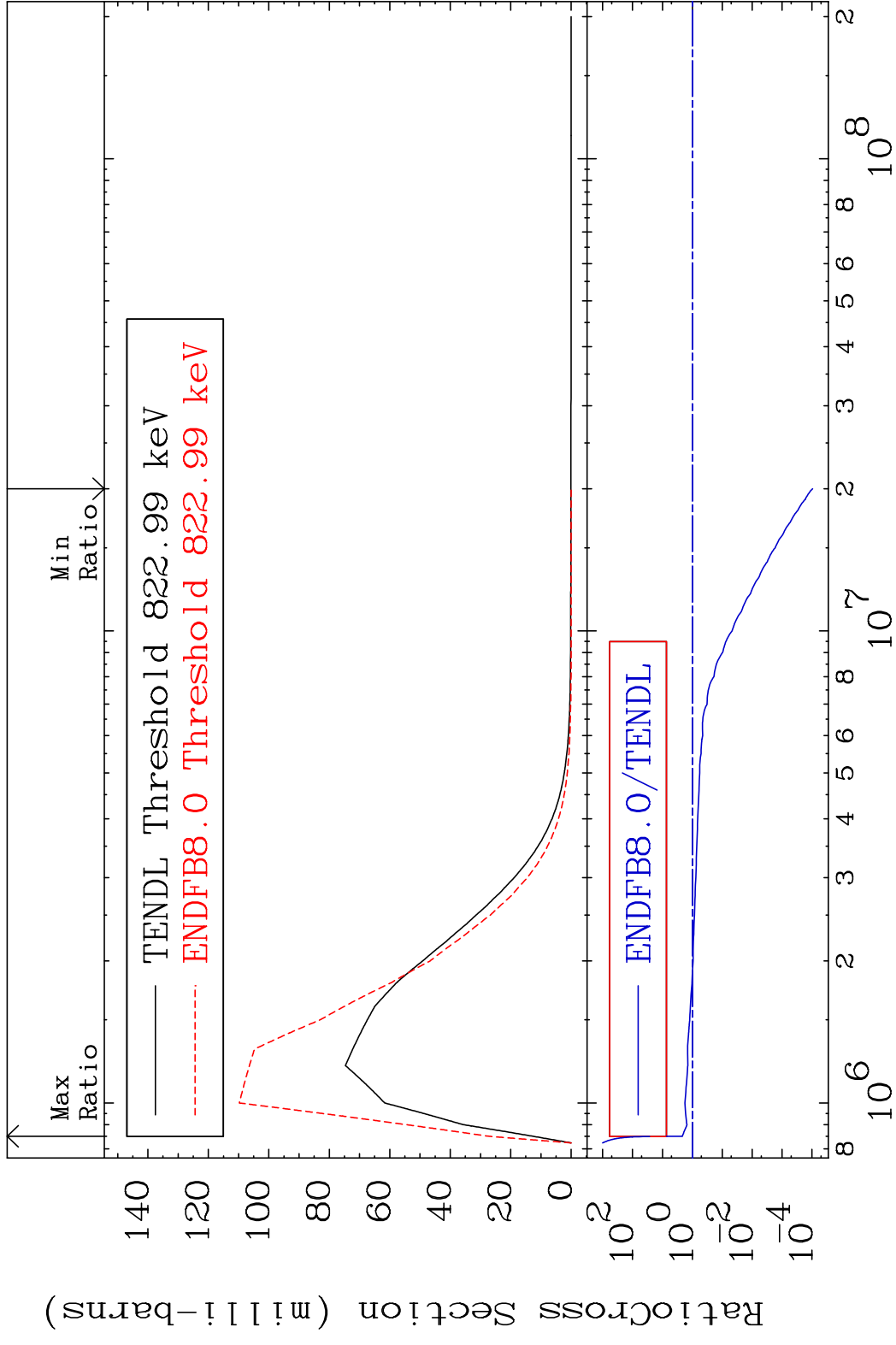
15 Incident Energy (eV) 46-Pd-103

MAT 4628 MT= 62 (n, n') Level 46-Pd-103
 Cross Section -99.99 To 56.46 %

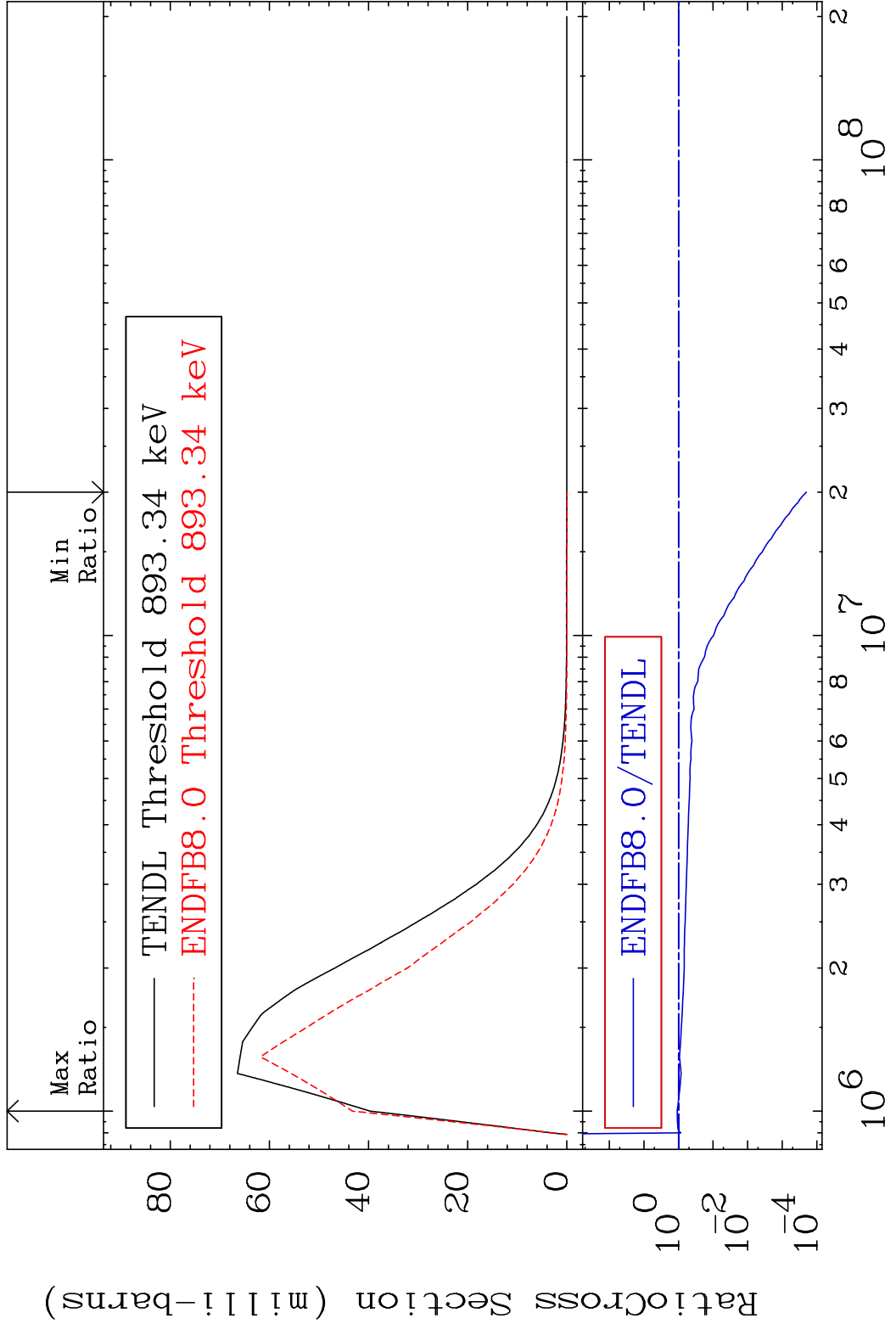


16 Incident Energy (eV) 46-Pd-103

MAT 4628 MT= 63 (n, n') Level 46-Pd-103
 Cross Section -99.99 To 116.2 %

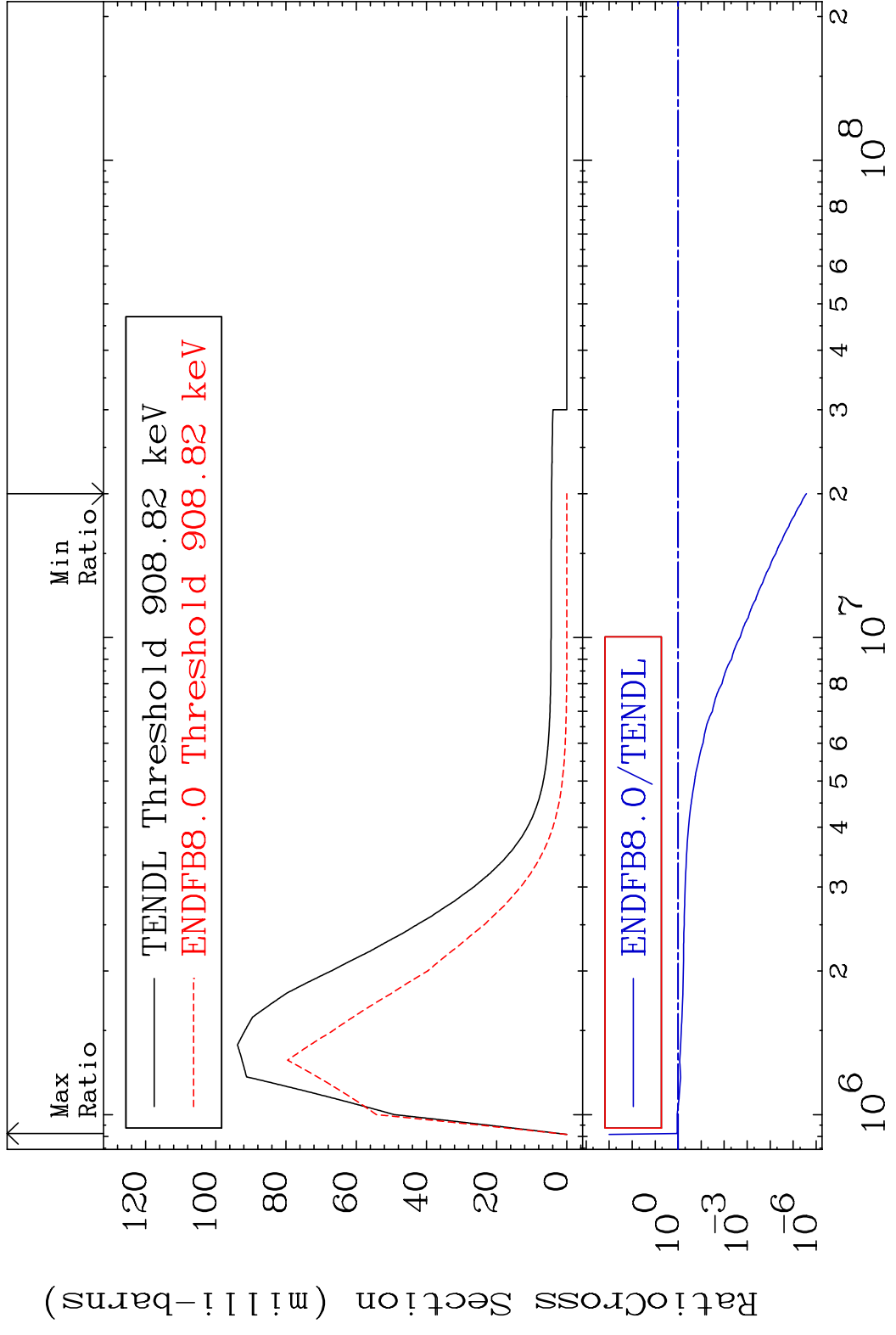


MAT 4628 MT= 64 (n, n') Level 46-Pd-103
 Cross Section -99.98 To 9.074 %



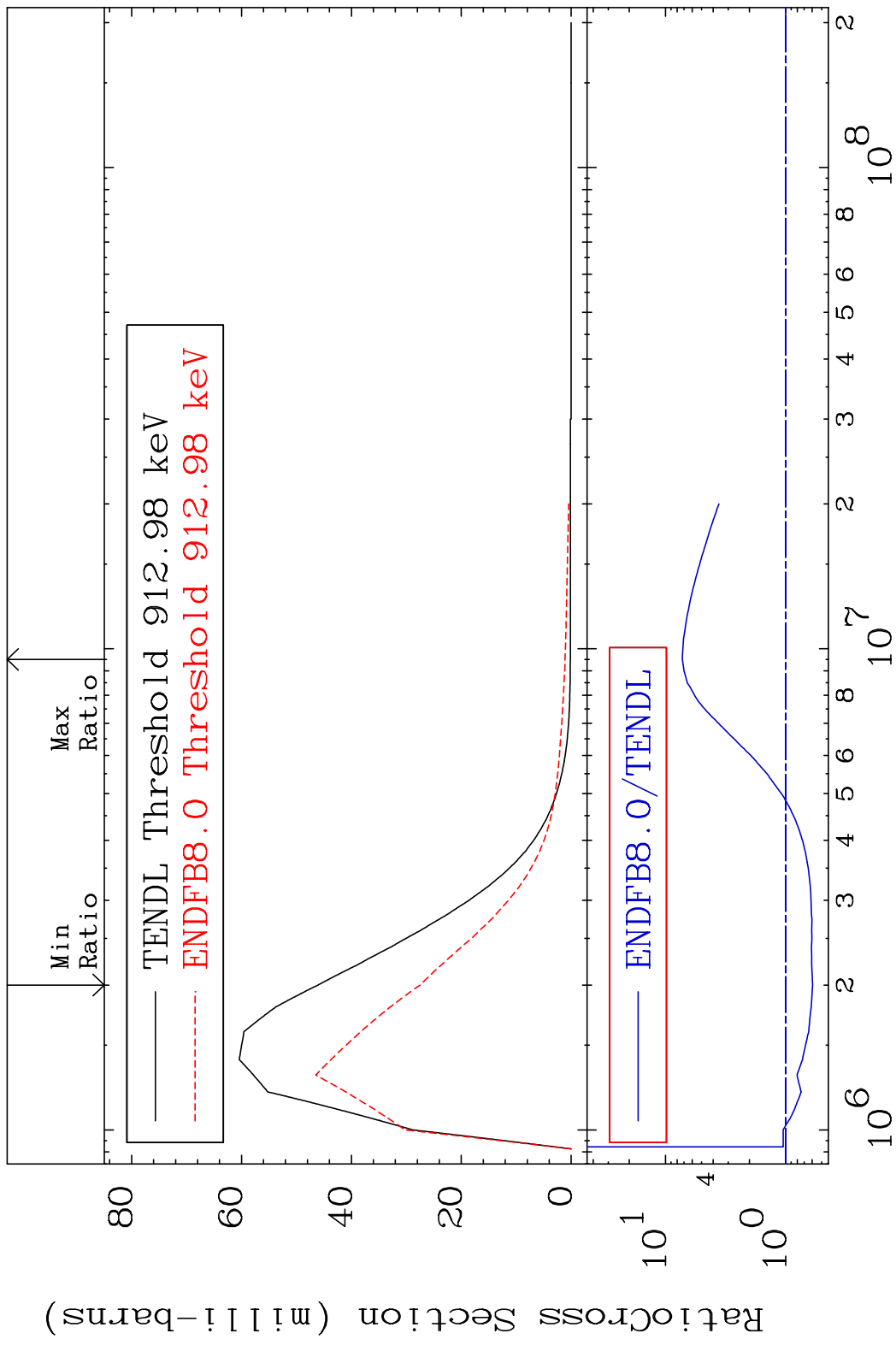
18 Incident Energy (eV) 46-Pd-103

MAT 4628 MT= 65 (n, n') Level 46-Pd-103
 Cross Section -100.0 To 10.33 %



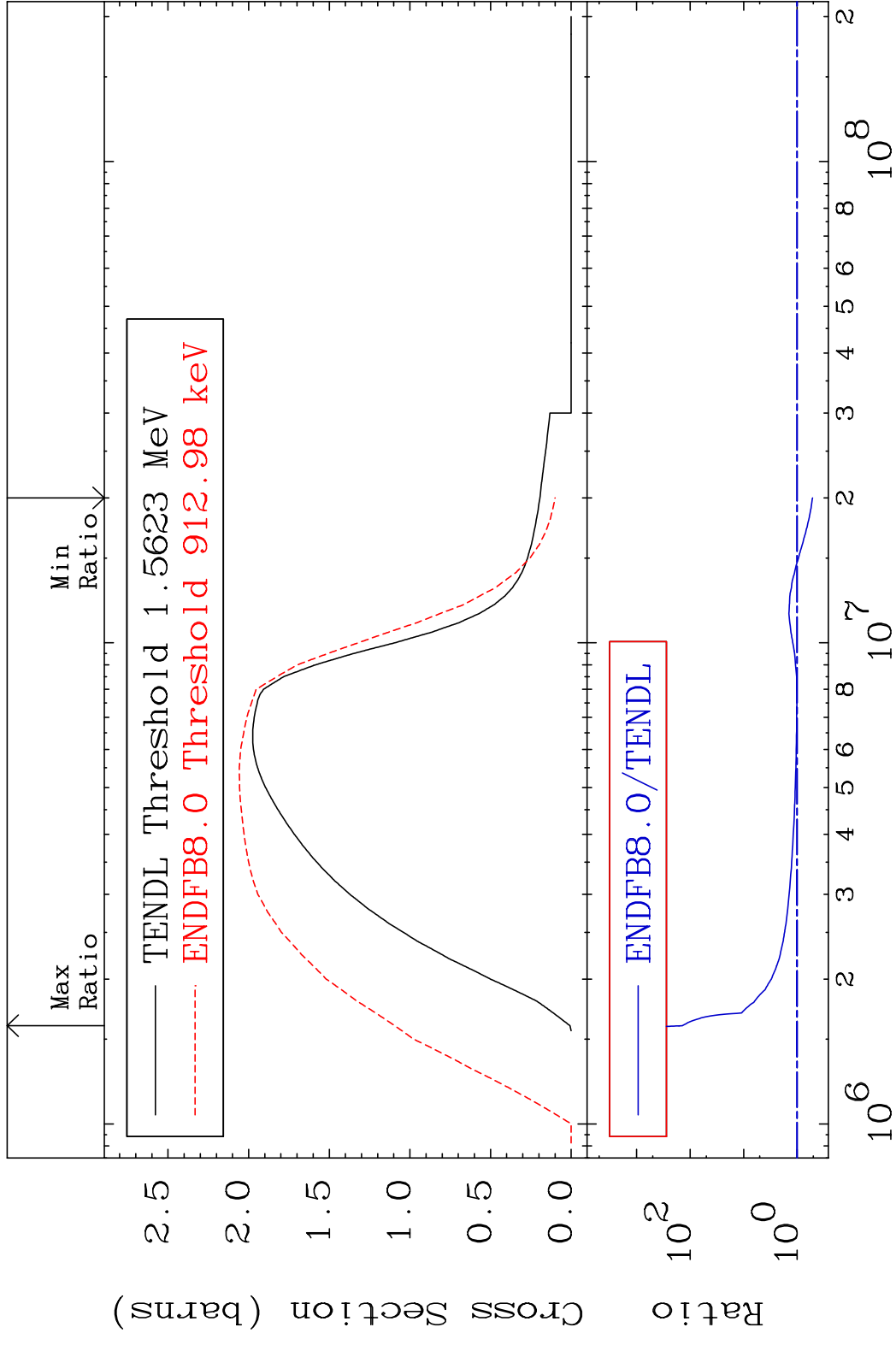
19 Incident Energy (eV) 46-Pd-103

MAT 4628 MT= 66 (n, n') Level 46-Pd-103
 Cross Section -40.34 To 623.7 %



20 46-Pd-103

MAT 4628 (n, n') Continuum 46-Pd-103
 Cross Section -48.32 To 9999. %

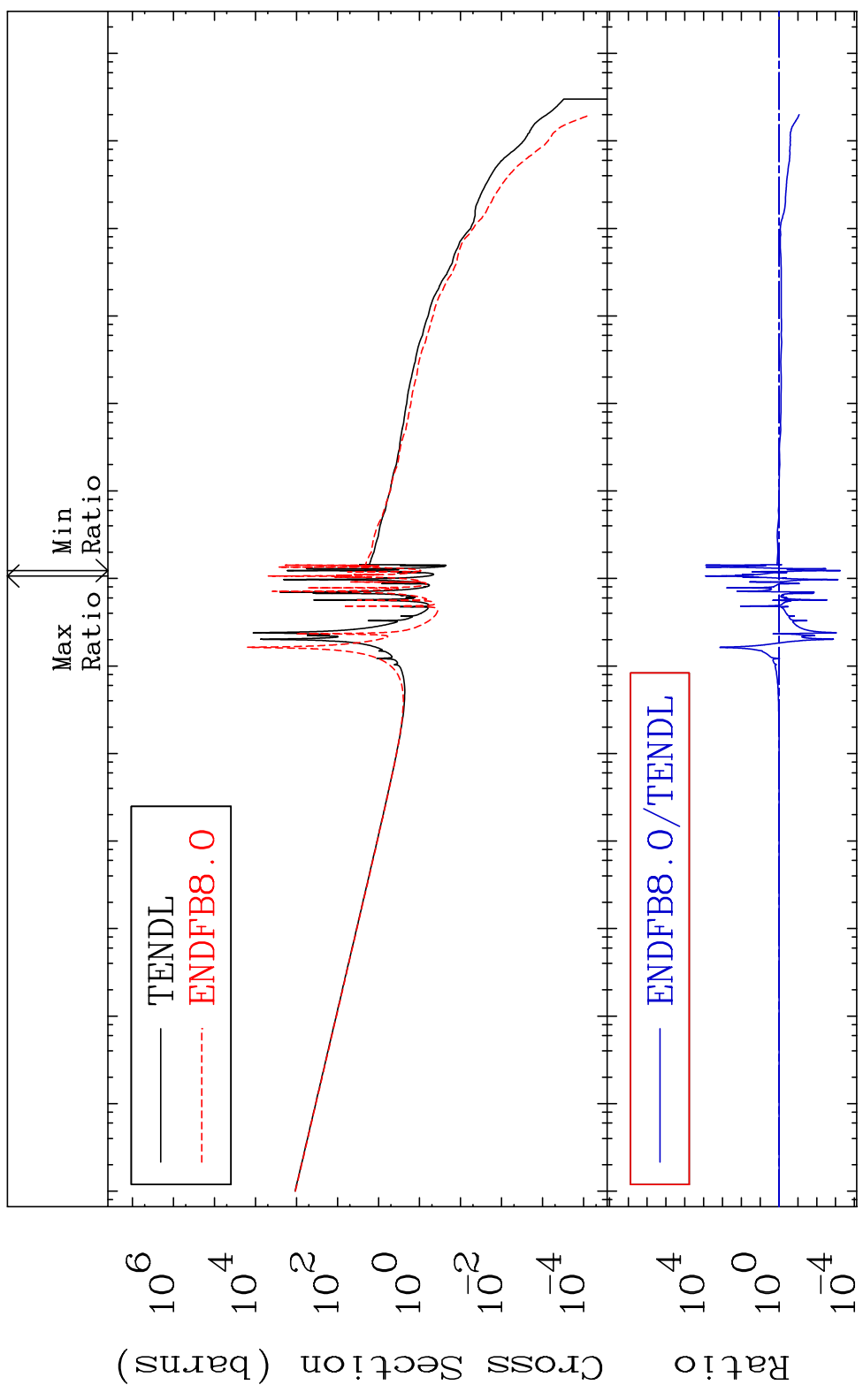


MAT 4628

(n, γ)

46-Pd-103

Cross Section -99.94 To 9999. %

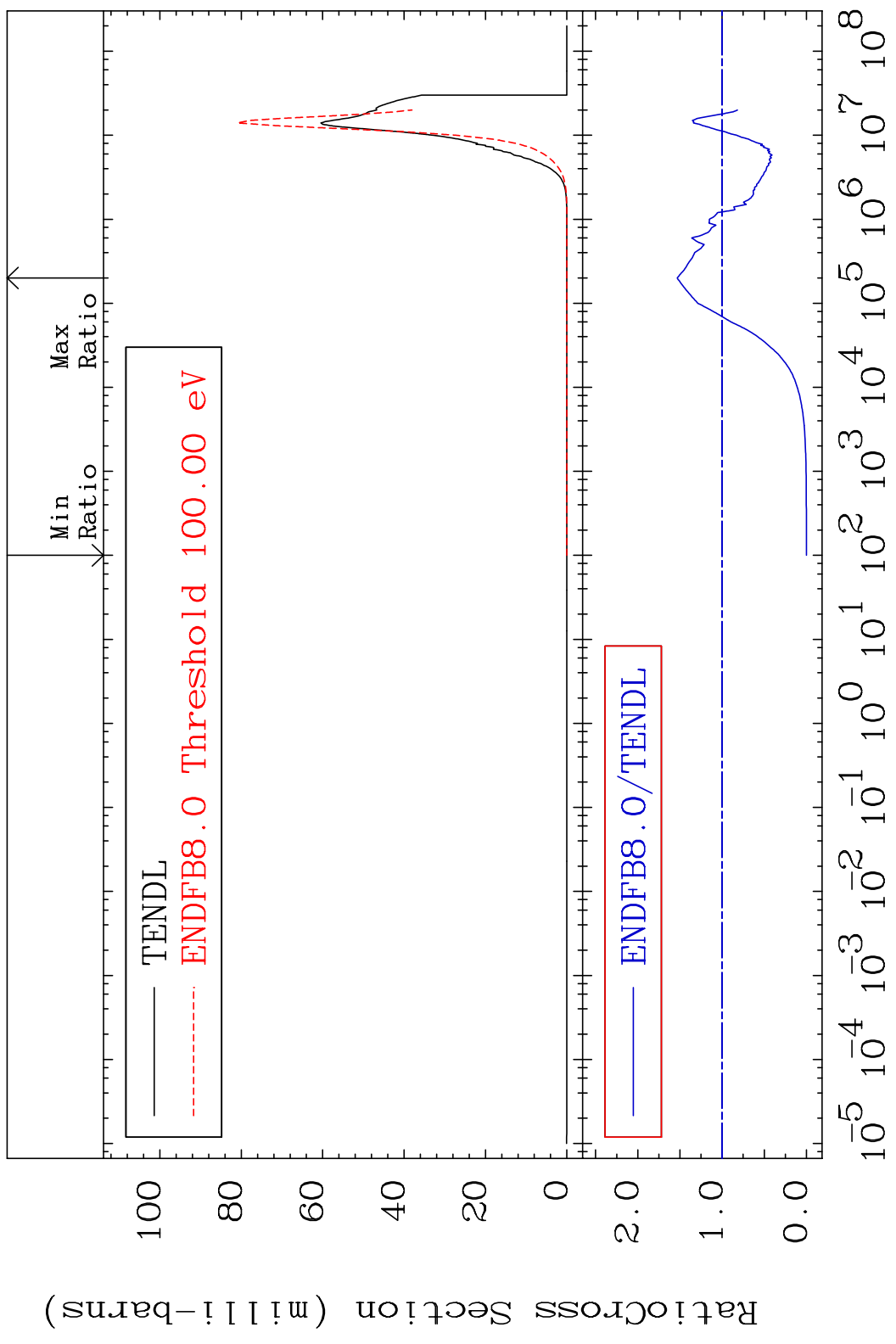


MAT 4628

(n, p)

46-Pd-103

Cross Section -100.0 To 53.26 %

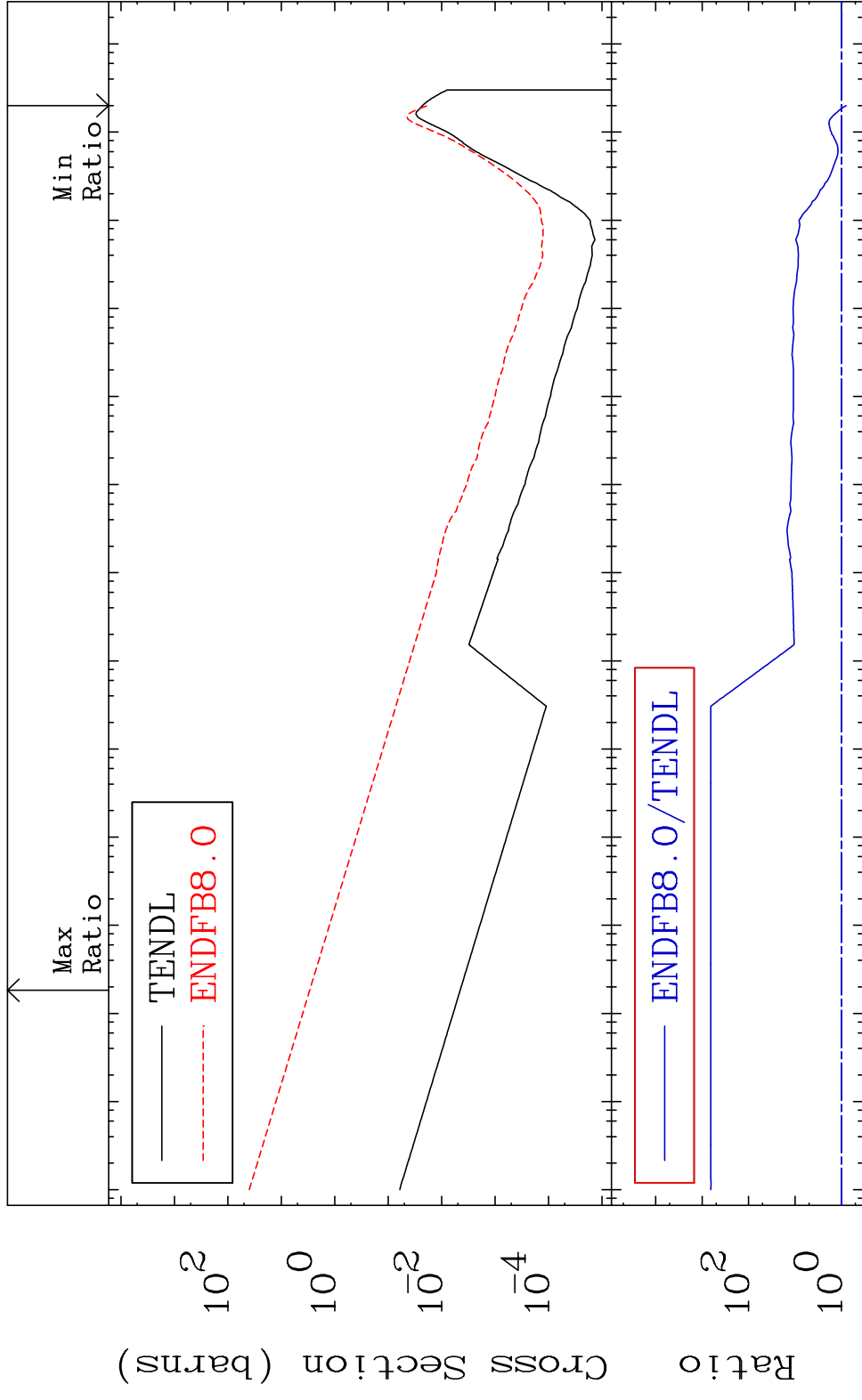


23

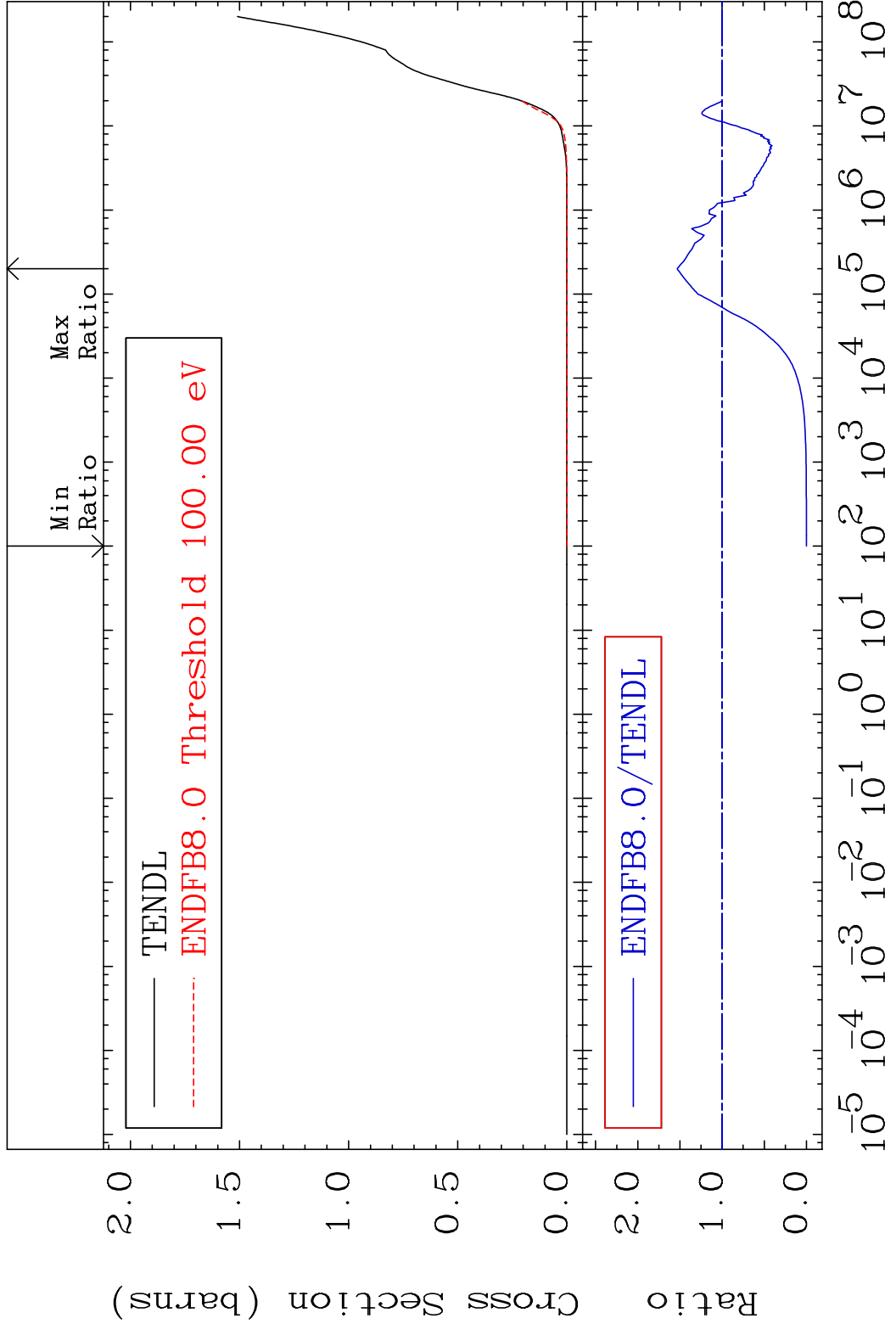
Incident Energy (eV)

46-Pd-103

MAT 4628 (n, α) 46-Pd-103
 Cross Section -21.59 To 9999. %



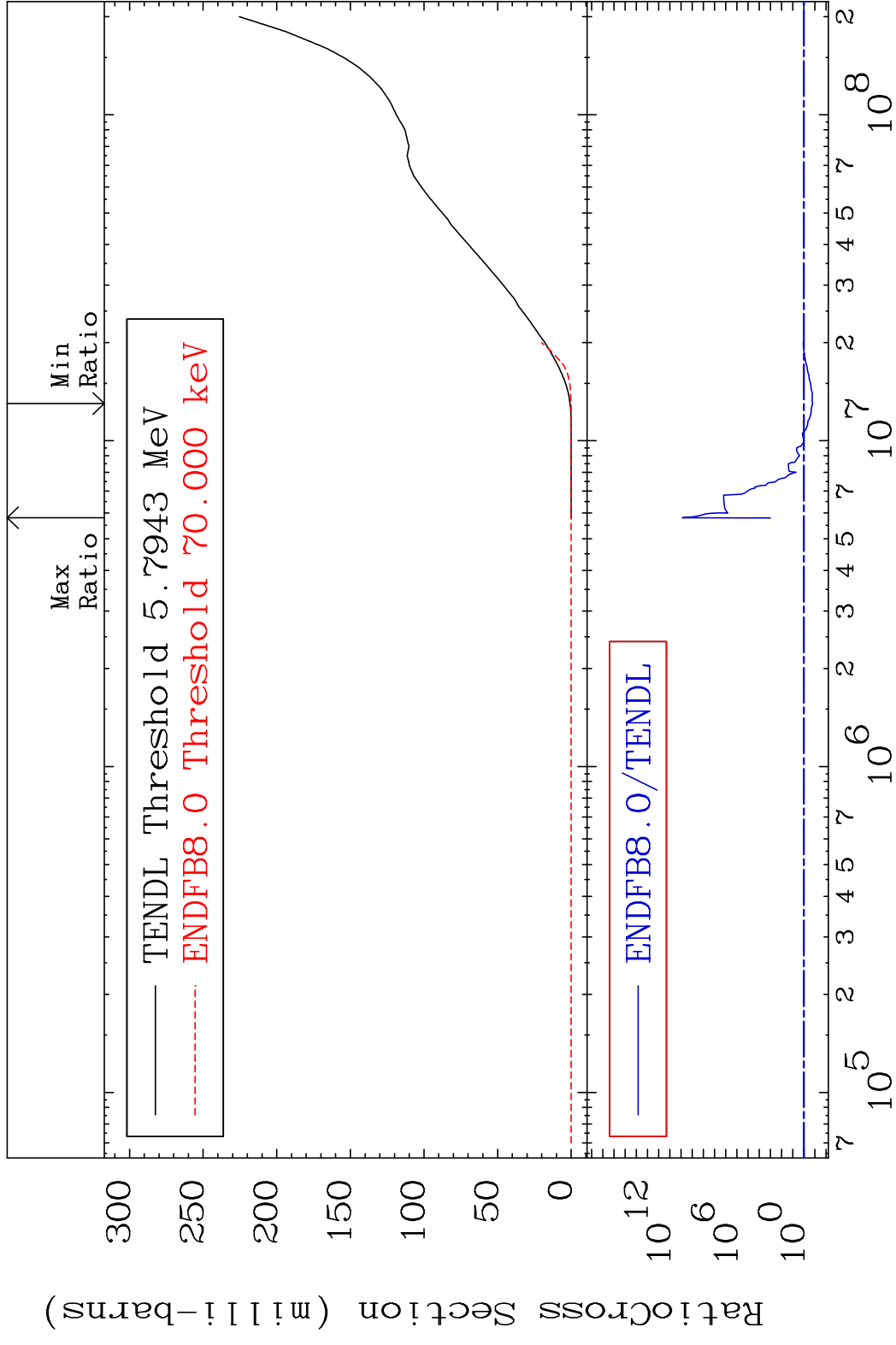
MAT 4628 Hydrogen Production 46-Pd-103
 Cross Section -100.0 To 53.26 %



25 Incident Energy (eV) 46-Pd-103

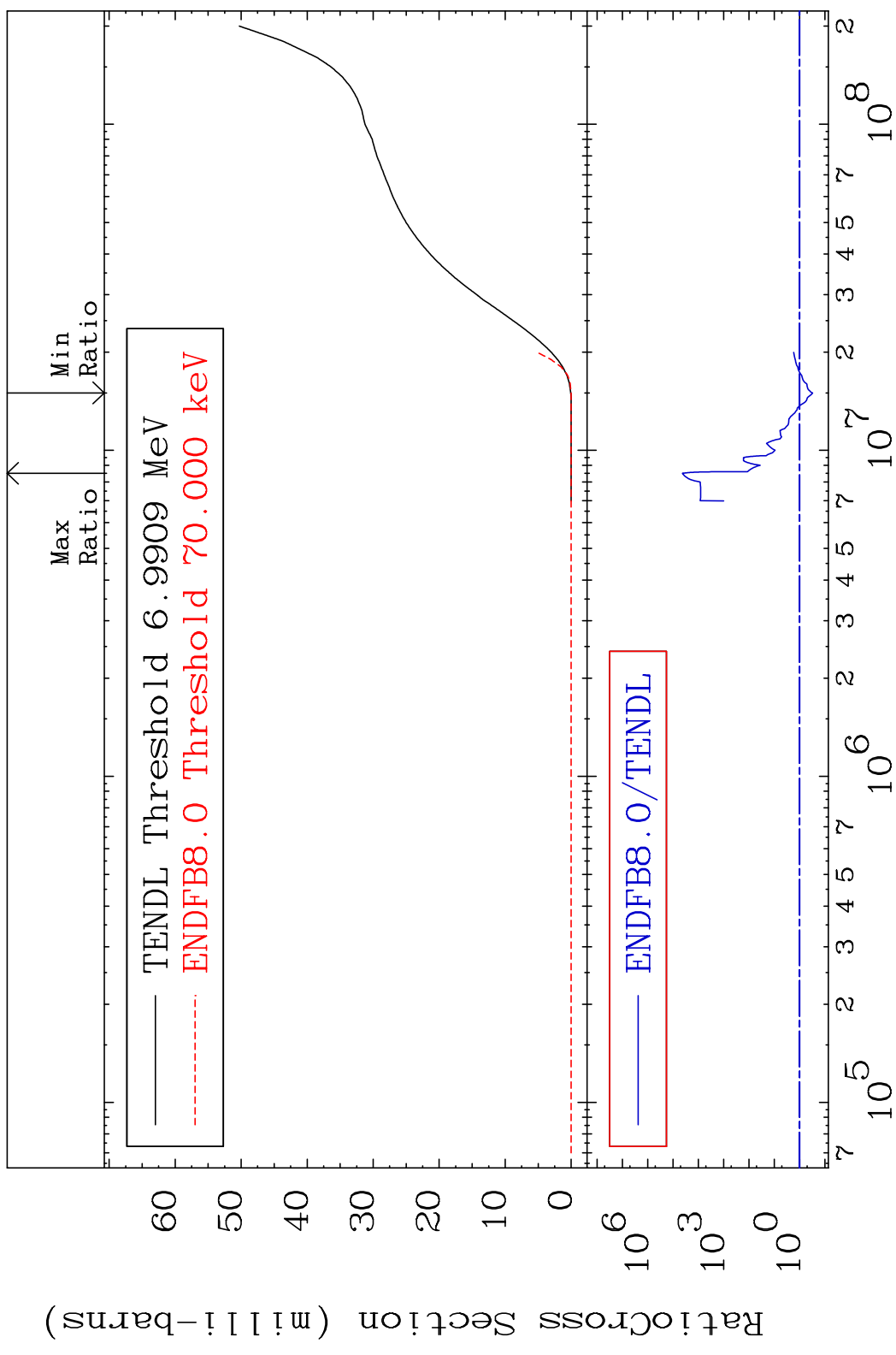
MAT 4628

Deuterium Production 46-Pd-103
Cross Section -83.45 To 9999. %



26

Incident Energy (eV) 46-Pd-103

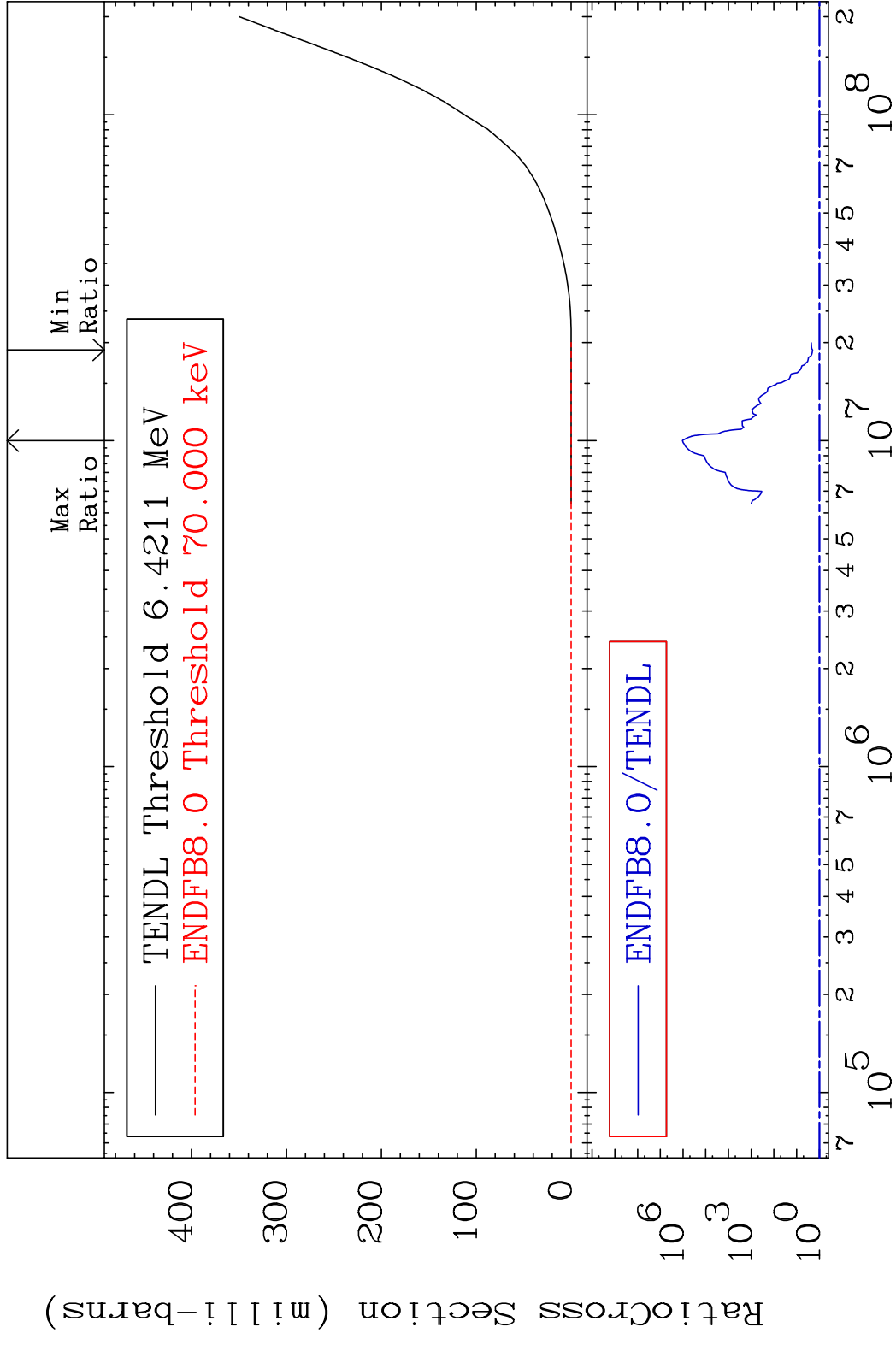


MAT 4628

He-3 Production

46-Pd-103

Cross Section 99.25 To 9999. %

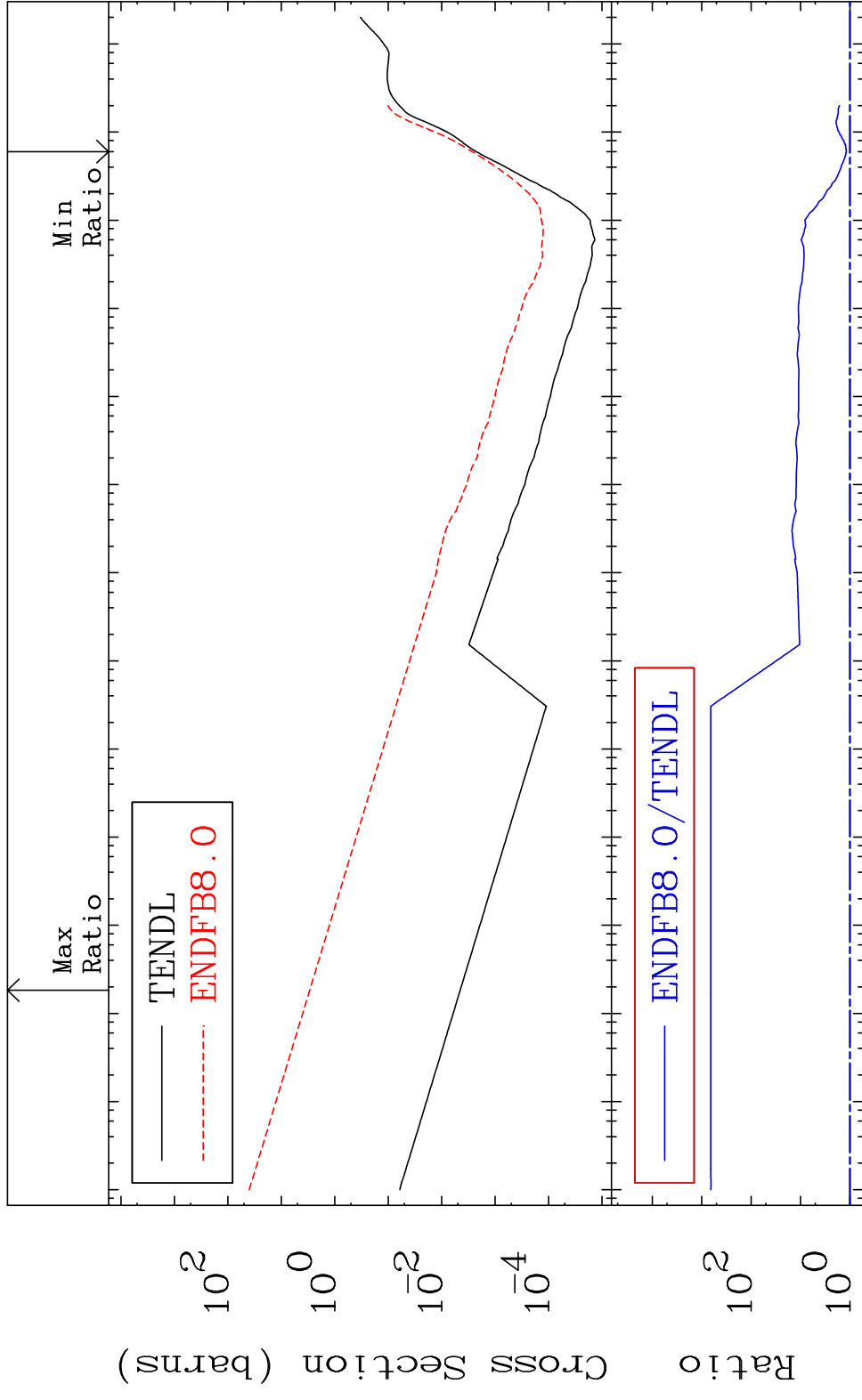


28

Incident Energy (eV)

46-Pd-103

MAT 4628 He-4 Production 46-Pd-103
 Cross Section 17.78 To 9999. %



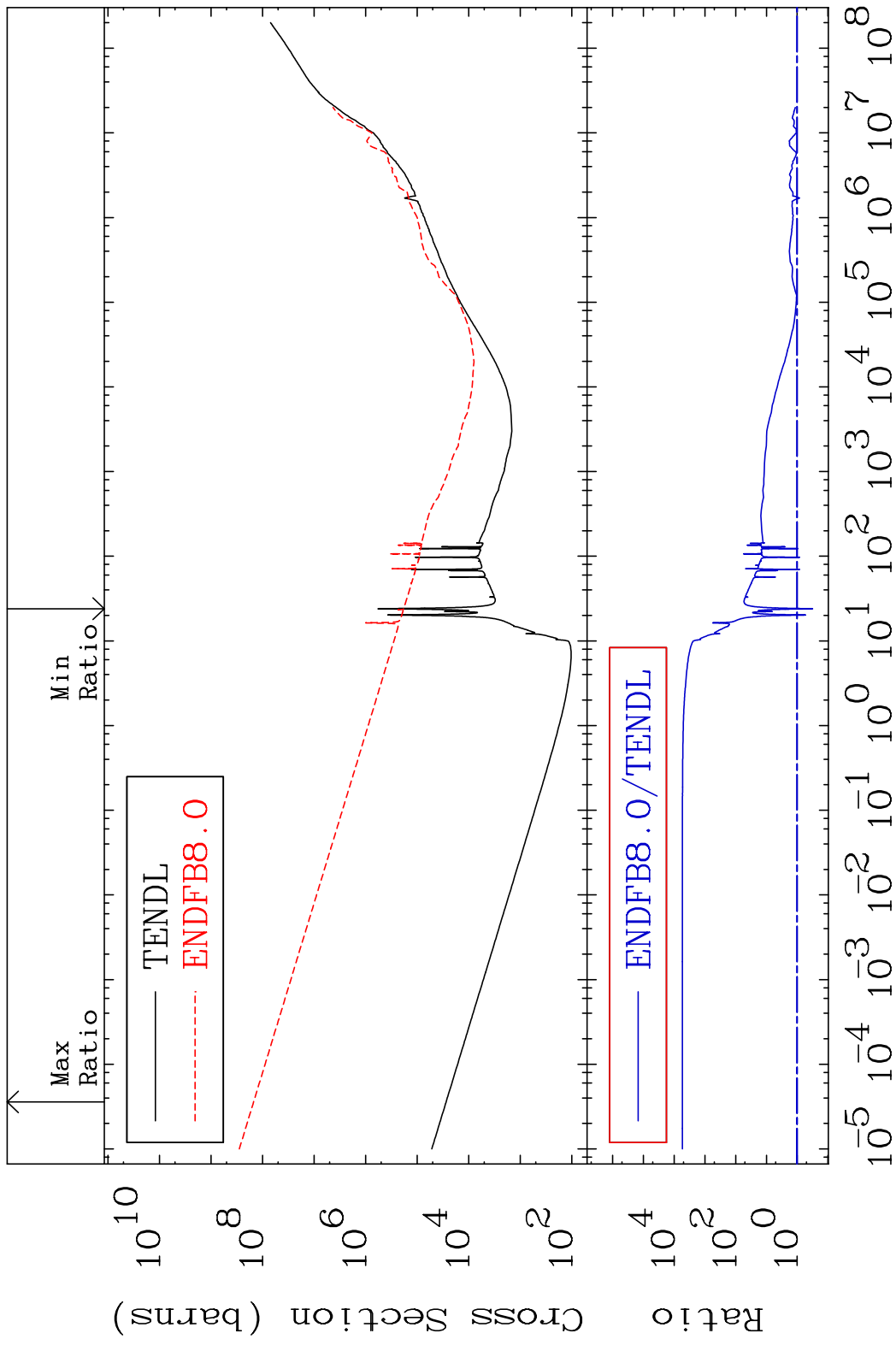
Ratio

Cross Section (barns)

Incident Energy (eV)

46-Pd-103

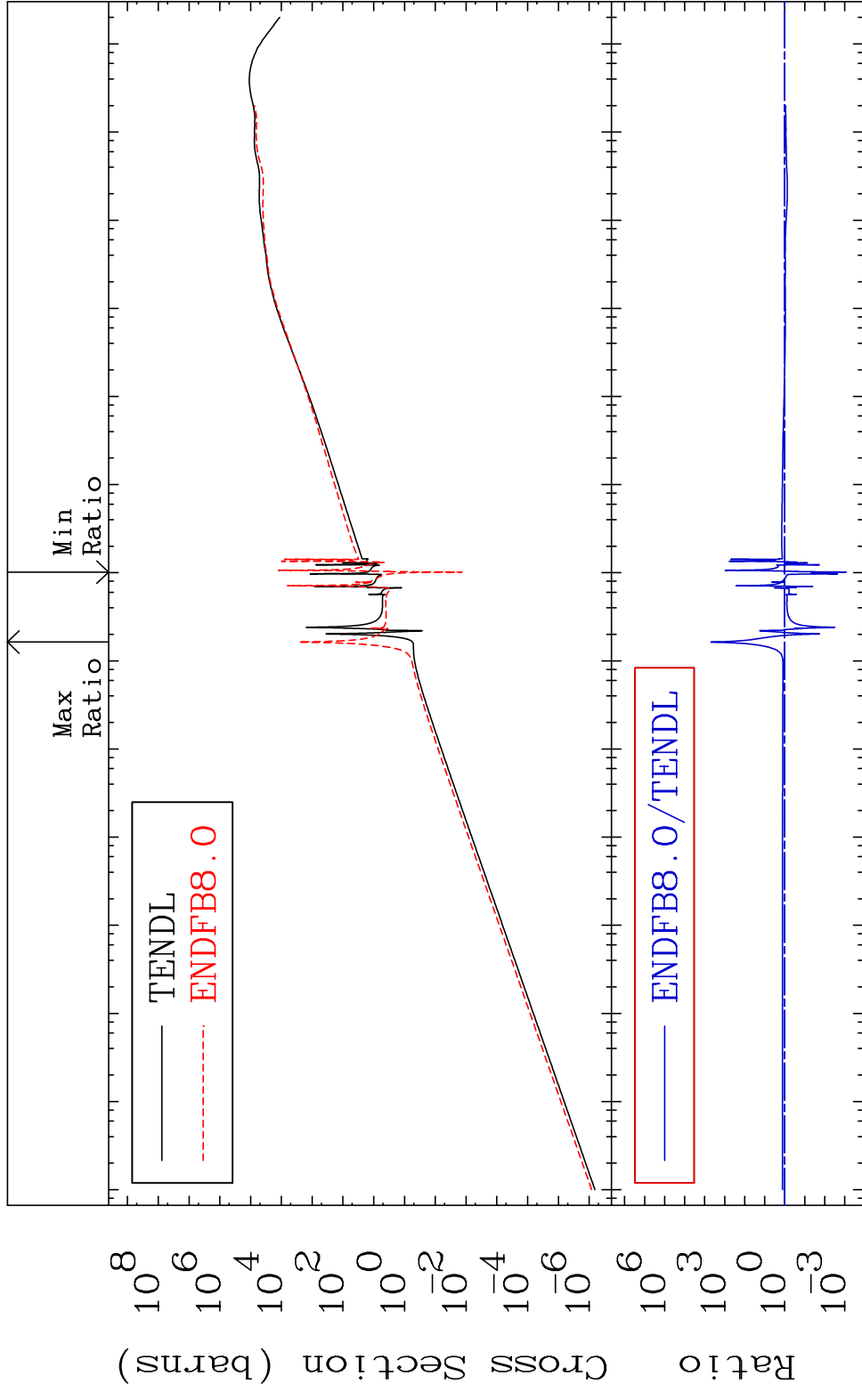
MAT 4628 Kerma total (eV-barns) 46-Pd-103
 Cross Section -68.32 To 9999. %



MAT 4628

Kerma elastic
Cross Section

46-Pd-103
-99.92 To 9999. %



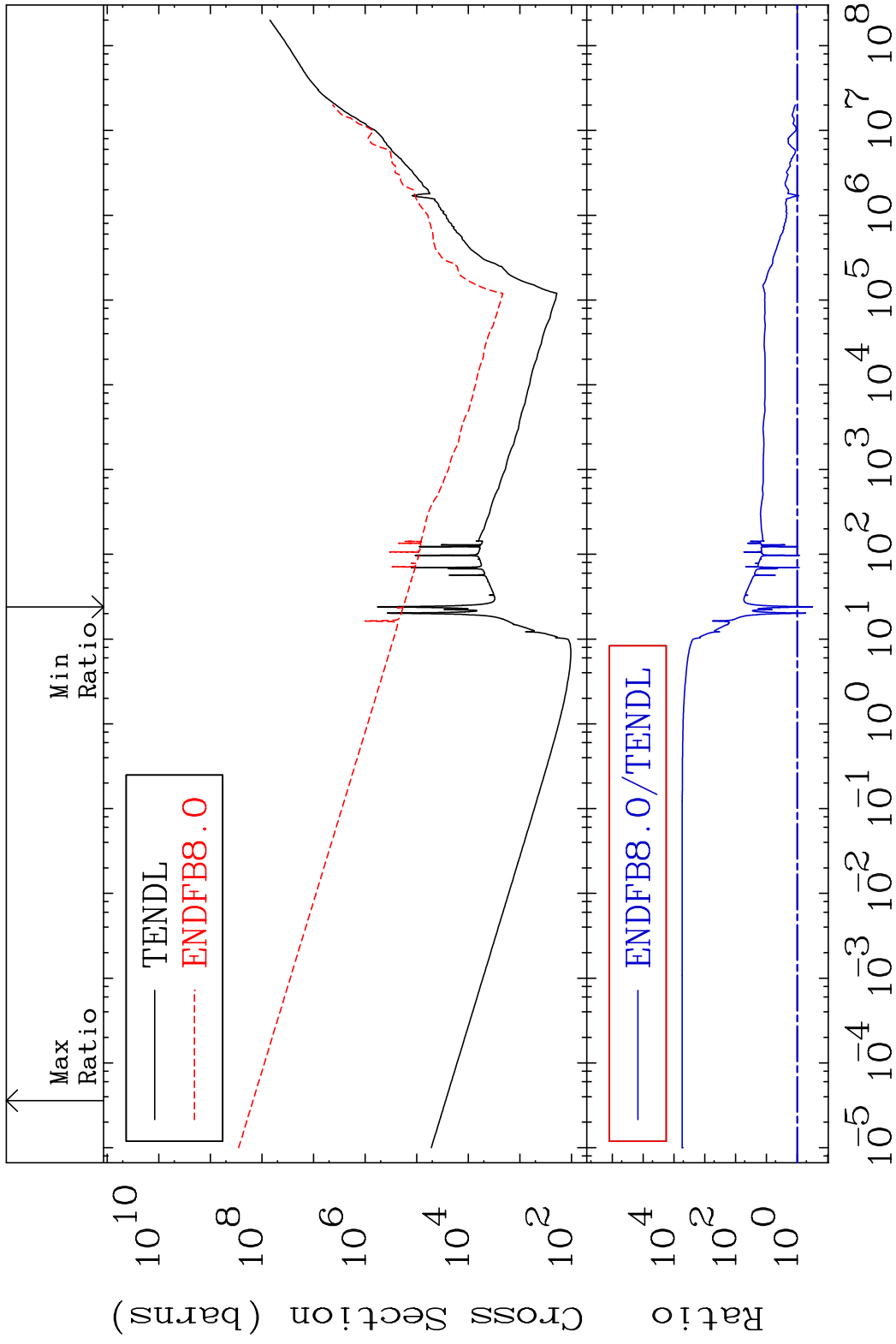
10^8
 10^6
 10^4
 10^2
 10^0
 10^{-2}
 10^{-4}
 10^{-6}
 10^{-8}

Cross Section (barns)

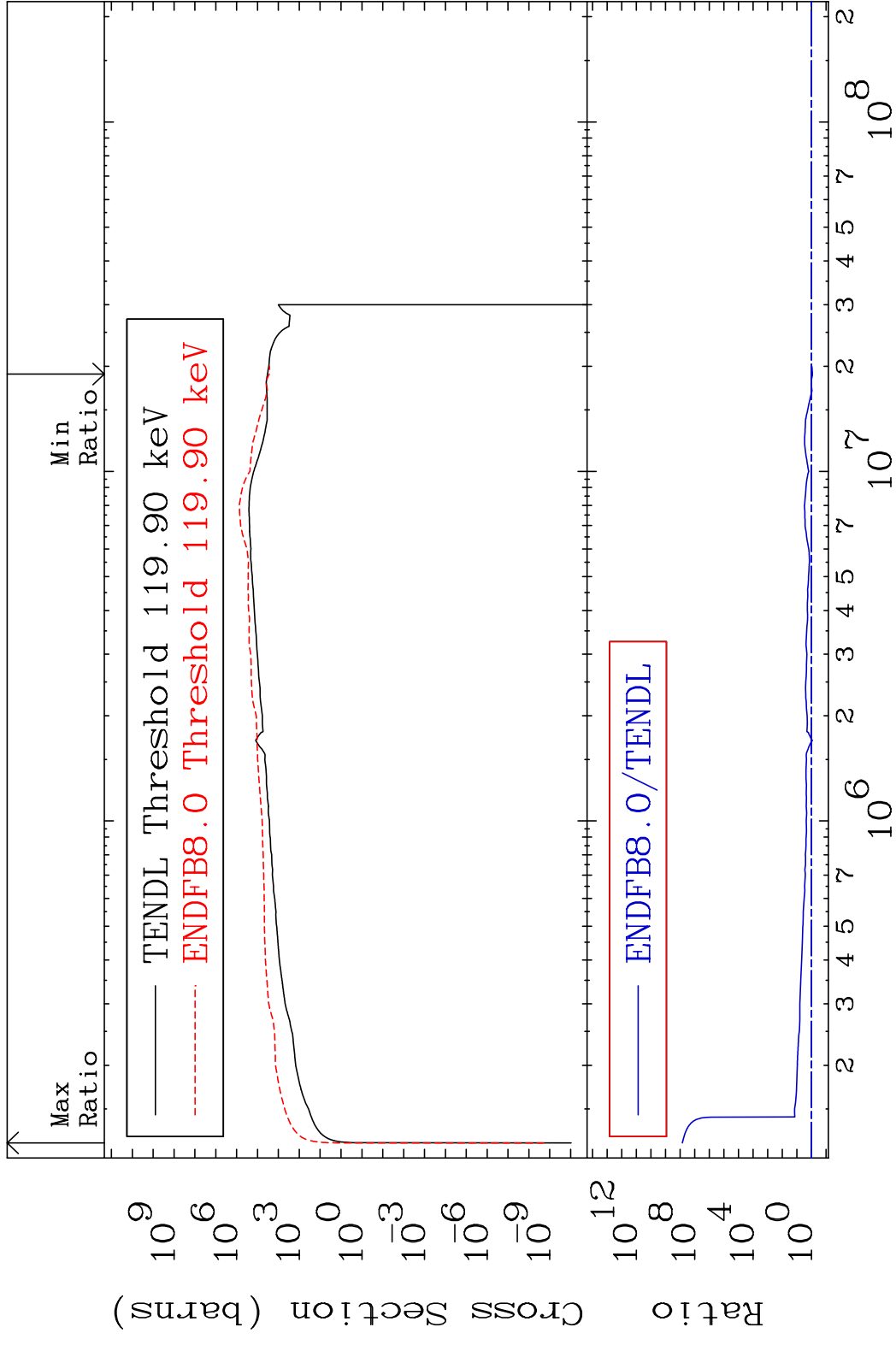
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

Incident Energy (eV)

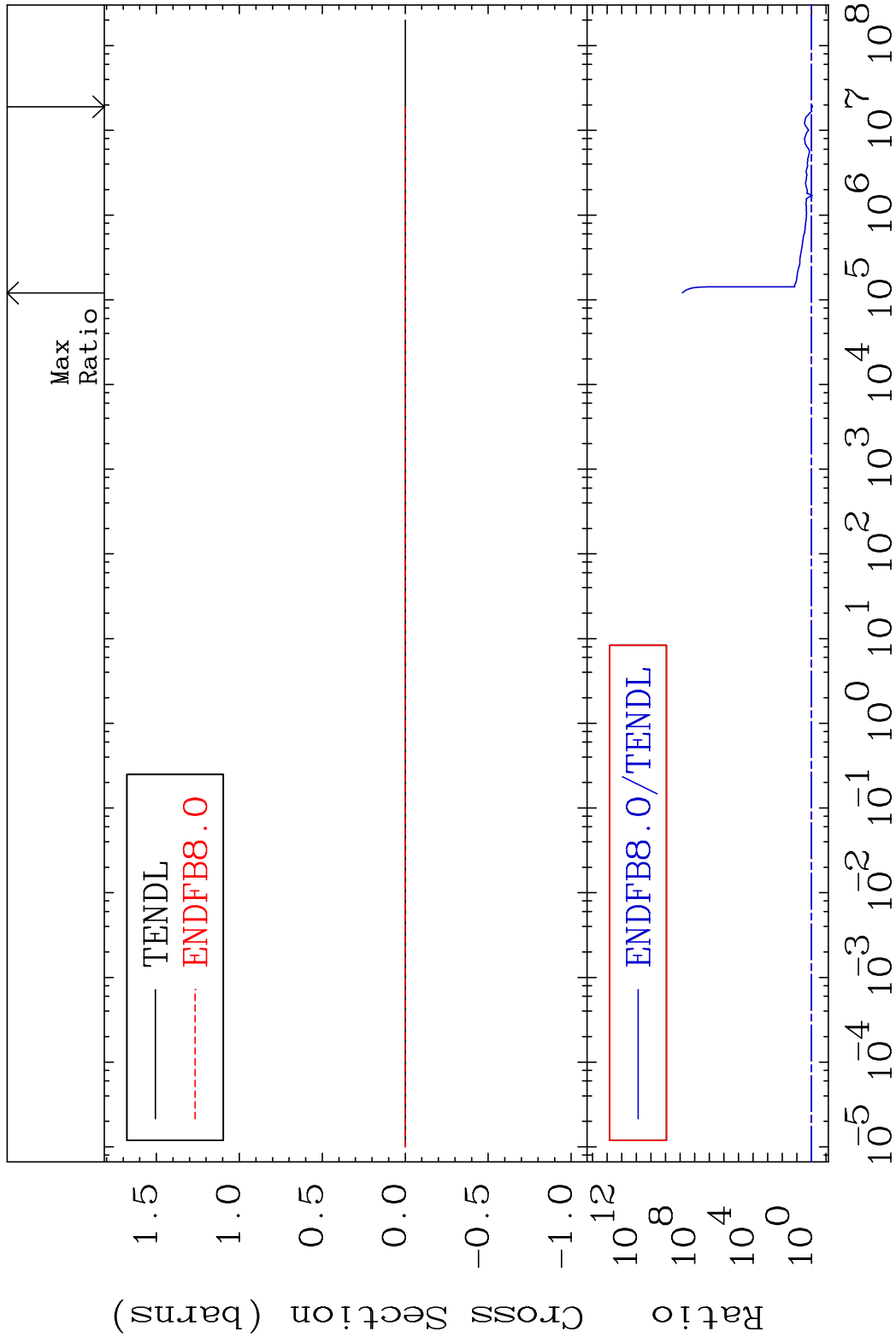
MAT 4628 Kerma non-elastic (all but mt2) 46-Pd-103
 Cross Section -68.23 To 9999. %



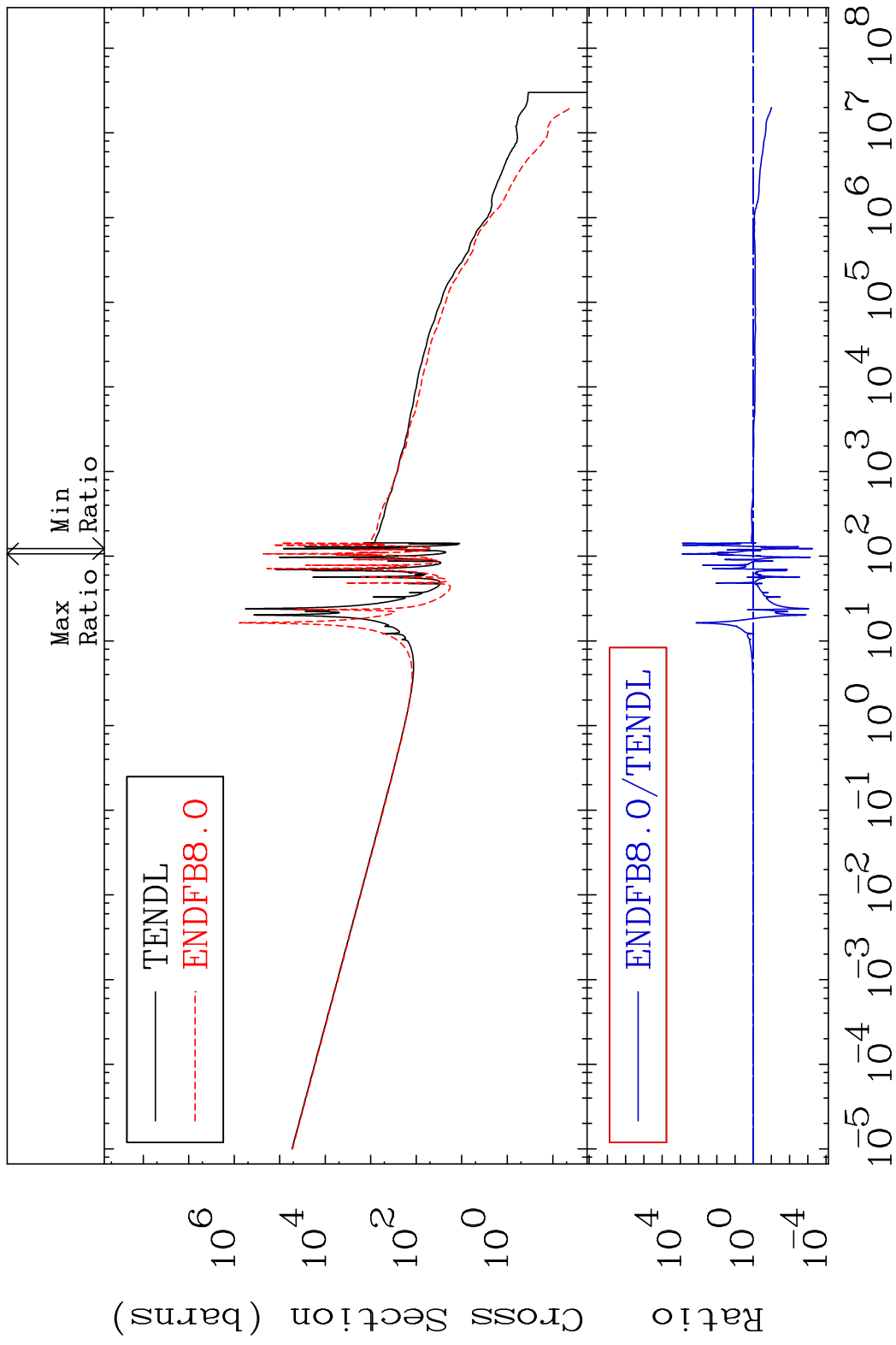
MAT 4628 Kerma inelastic (mt51-91) 46-Pd-103
 Cross Section -16.91 To 9999. %



MAT 4628 Kerma fission (mt18 or mt19-20-21-38) 46-Pd-103
 Cross Section -16.91 To 9999. %

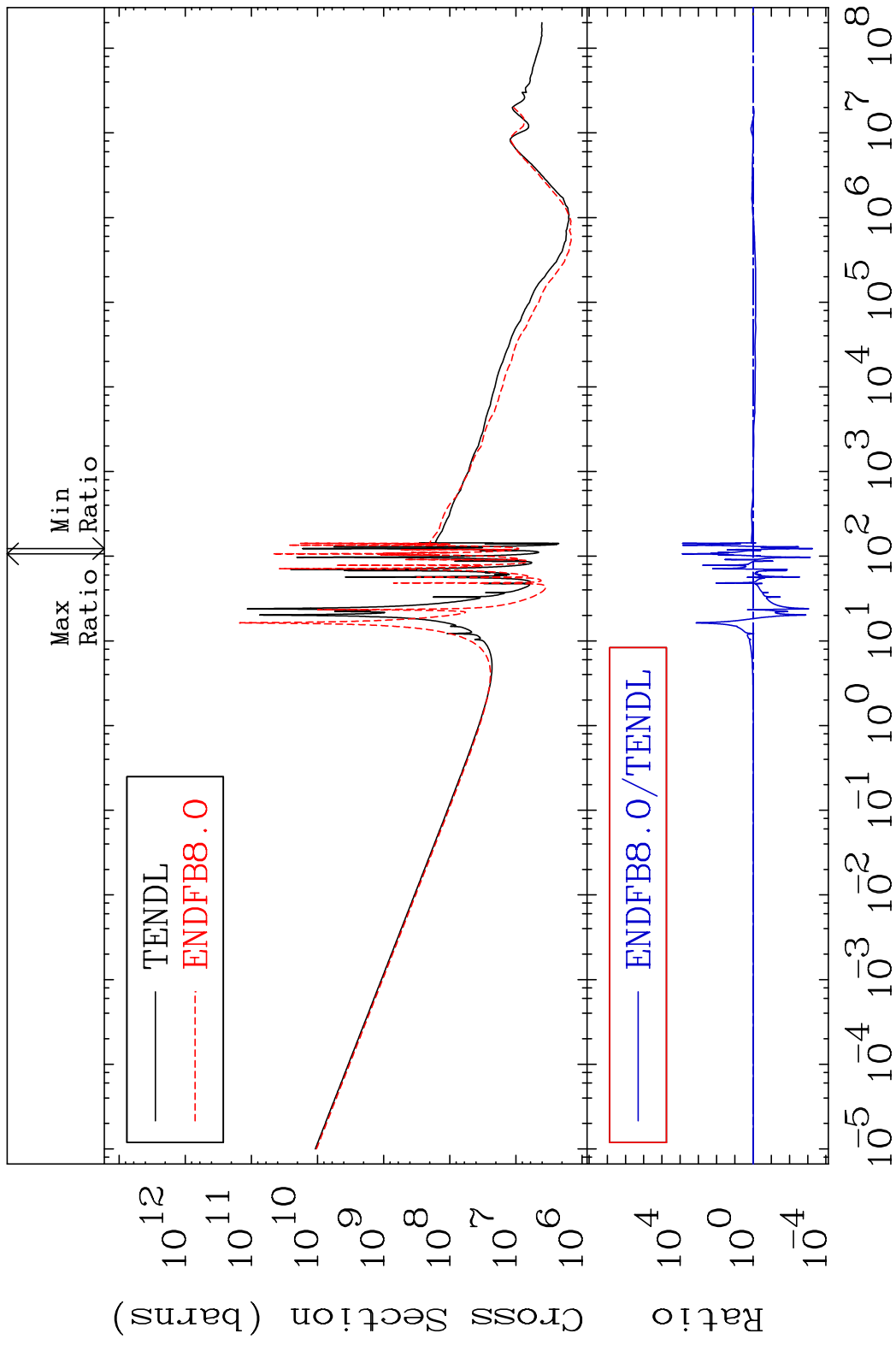


MAT 4628 Kerma capture (mt102) 46-Pd-103
 Cross Section -99.94 To 9999. %

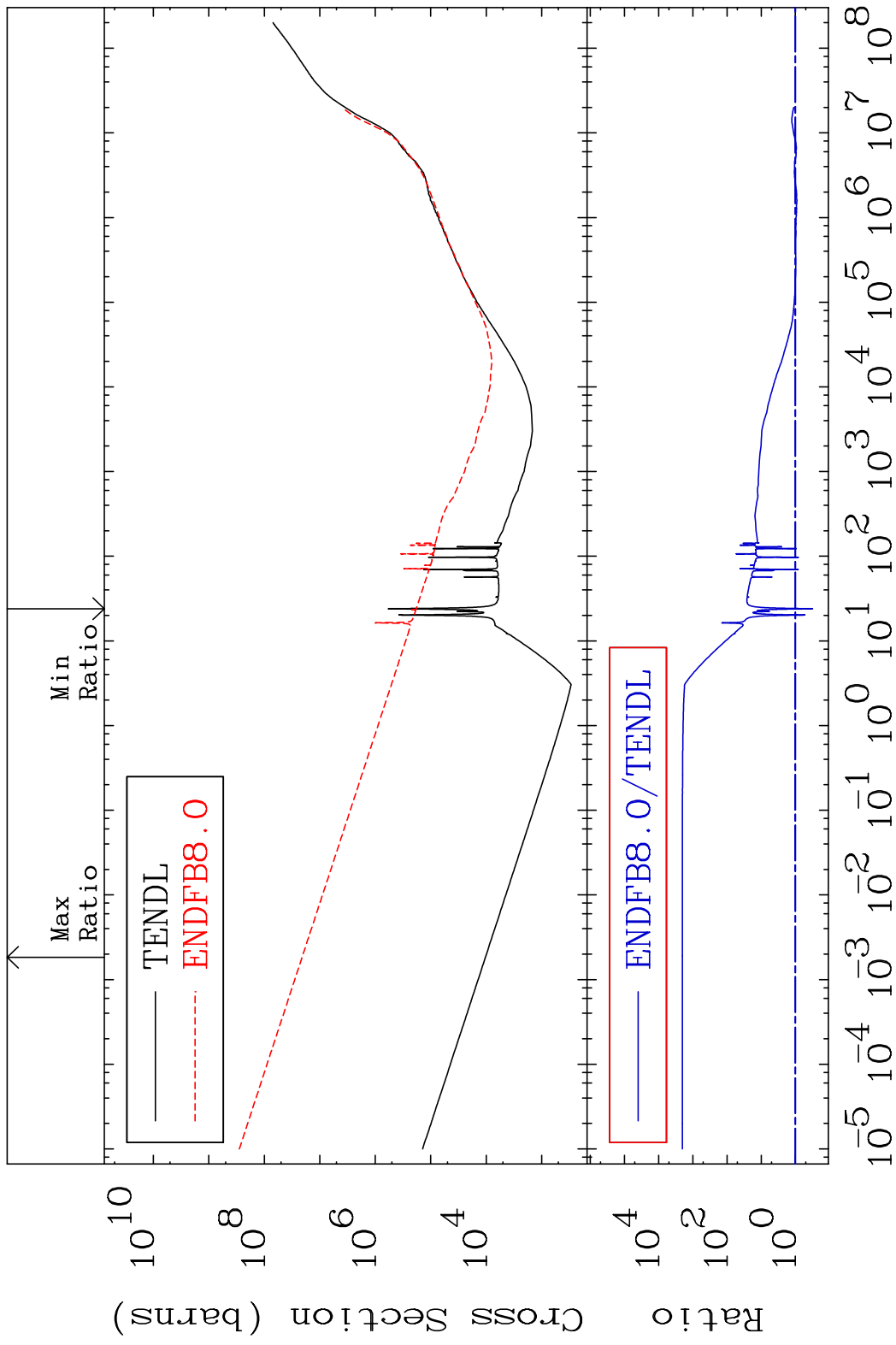


35 Incident Energy (eV) 46-Pd-103

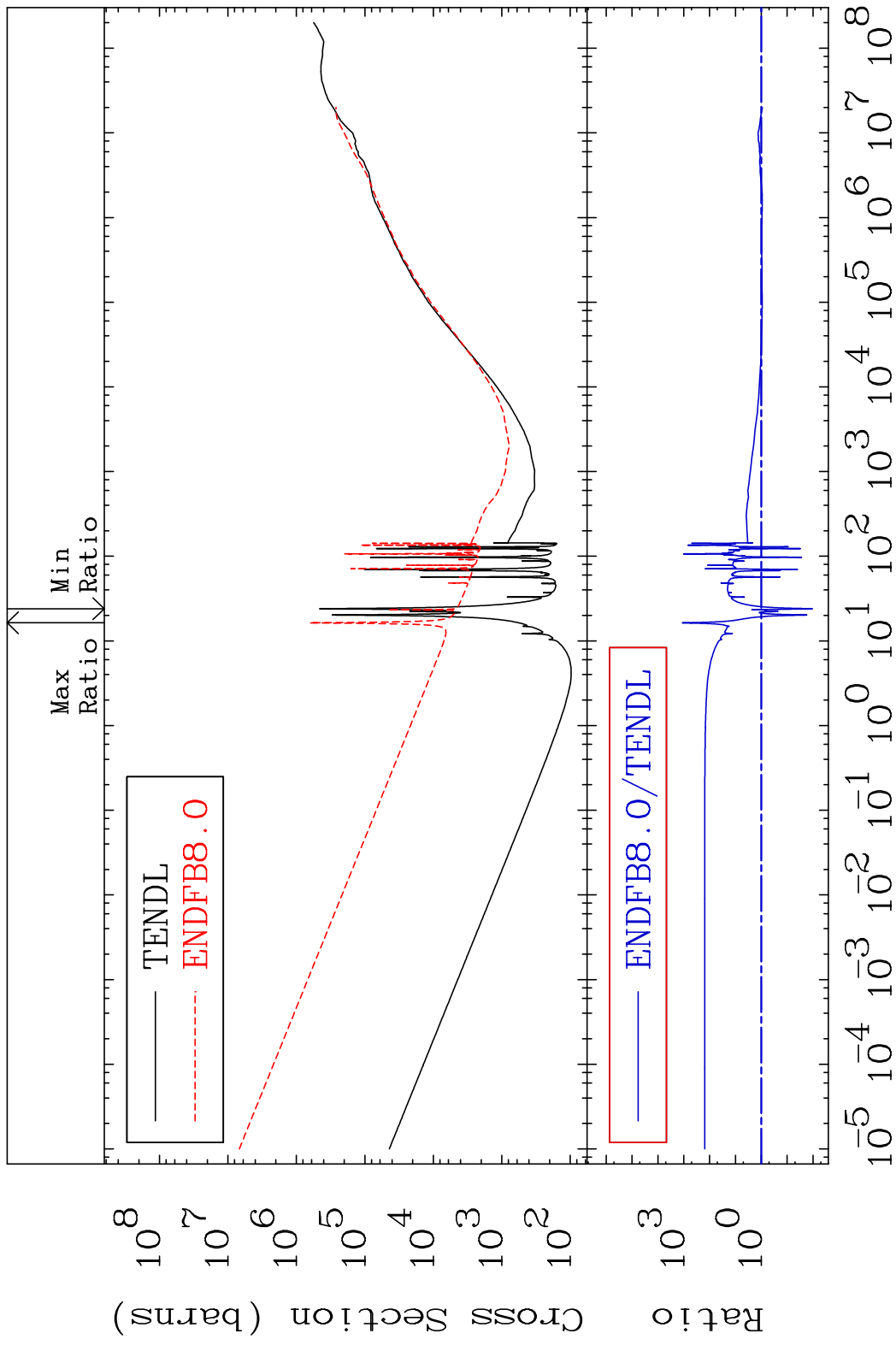
MAT 4628 Total photon (eV-barns) 46-Pd-103
 Cross Section -99.95 To 9999. %



MAT 4628 Total kinematic kerma (high limit) 46-Pd-103
 Cross Section -68.53 To 9999. %



MAT 4628 Dpa total (eV-barns) 46-Pd-103
 Cross Section -98.96 To 9999. %

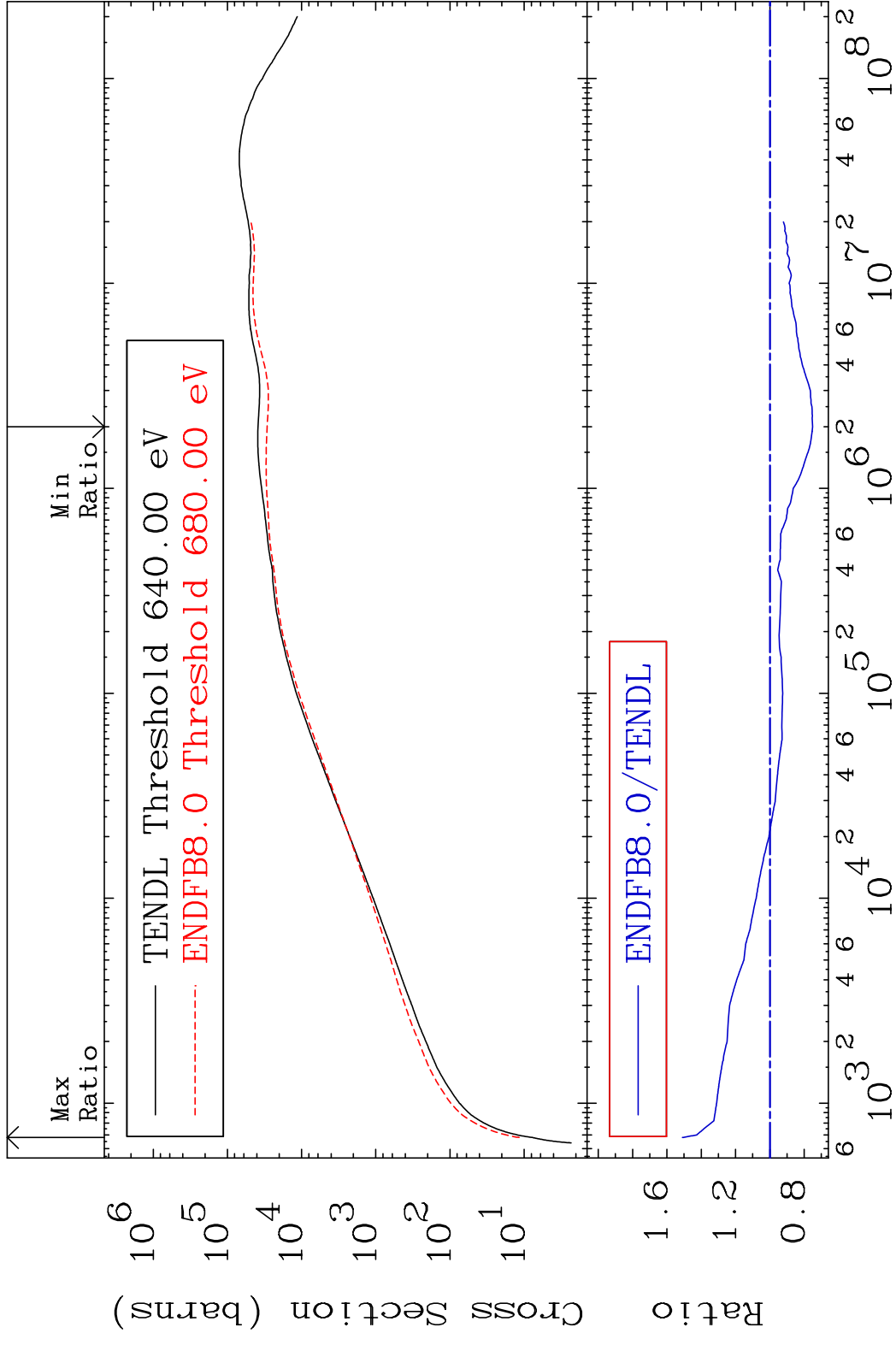


MAT 4628

Dpa elastic (mt2)

46-Pd-103

Cross Section -24.88 To 51.00 %

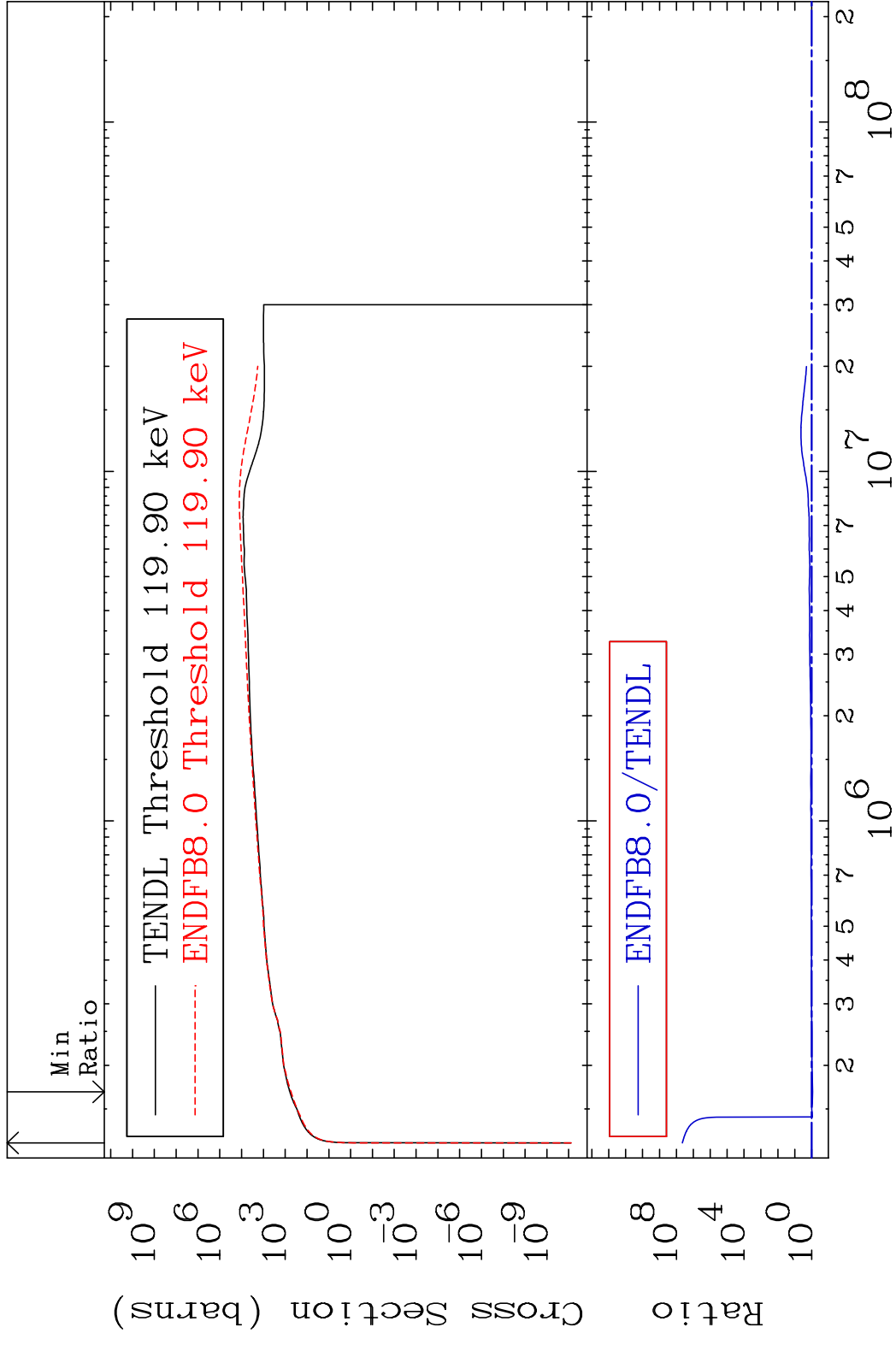


39

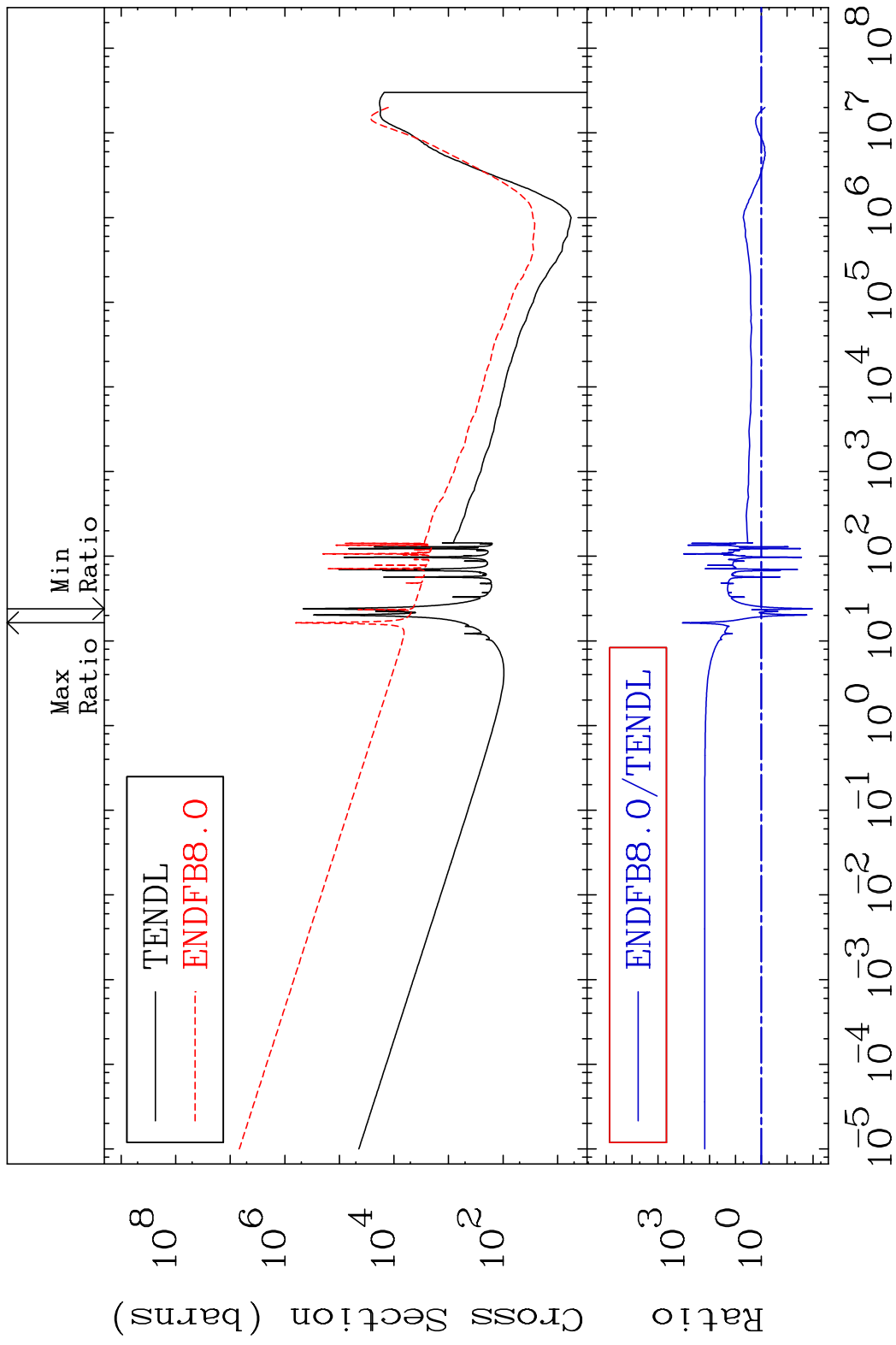
Incident Energy (eV)

46-Pd-103

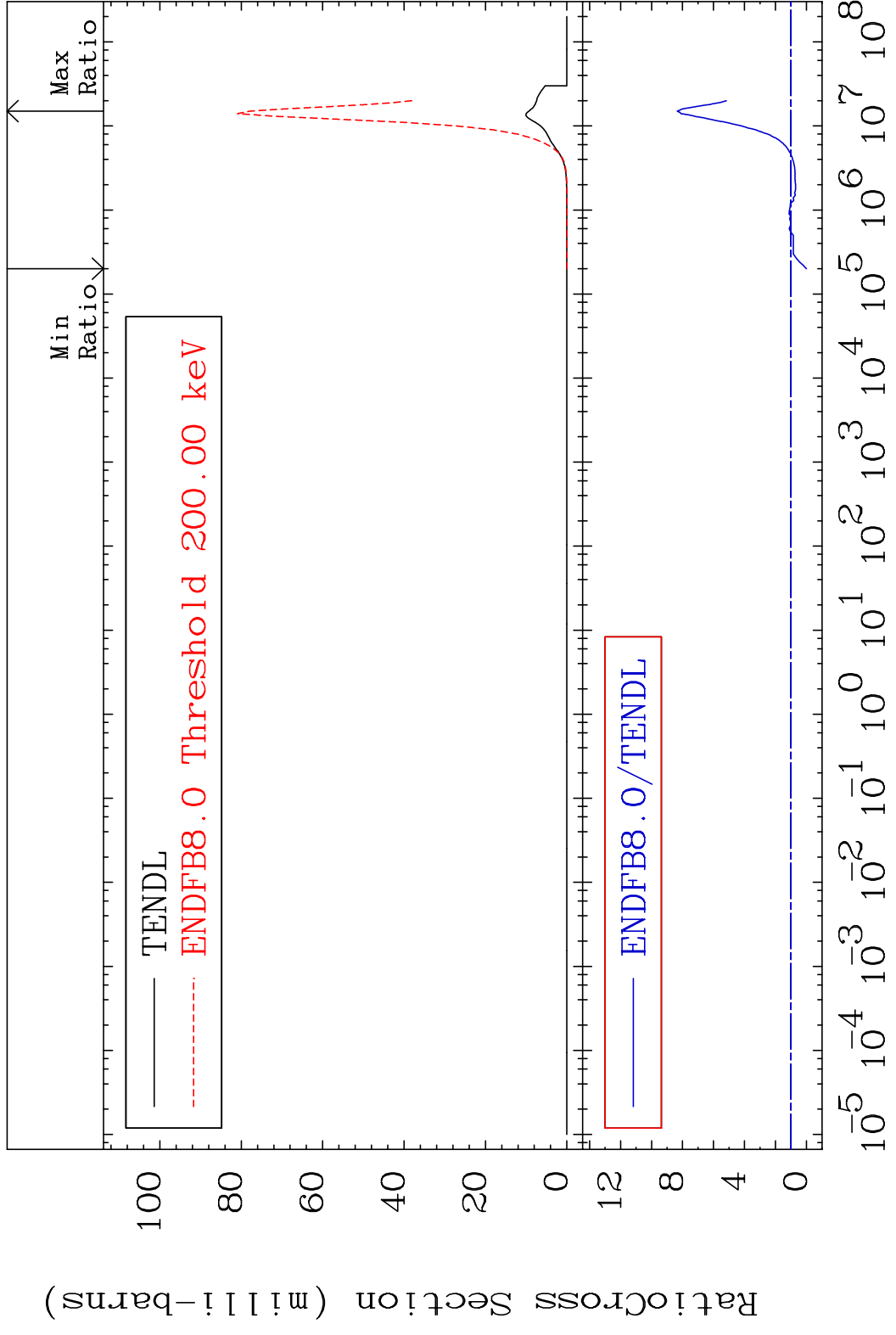
MAT 4628 Dpa inelastic (mt51-91) 46-Pd-103
 Cross Section -11.54 To 9999. %



MAT 4628 Dpa disappearance (mt102 -120) 46-Pd-103
 Cross Section -98.96 To 9999. %



MAT 4628 (n,p):45-Rh-103g 46-Pd-103
 Radionuclide Production Cross Section 180.0 dth 734.6 %



MAT 4628 (n, p) : 45-Rh-103m1 46-Pd-103
 Radionuclide Production Cross Section 180.01 mb 25.24 %

