

Program Complot
(Version 2021-1)

by

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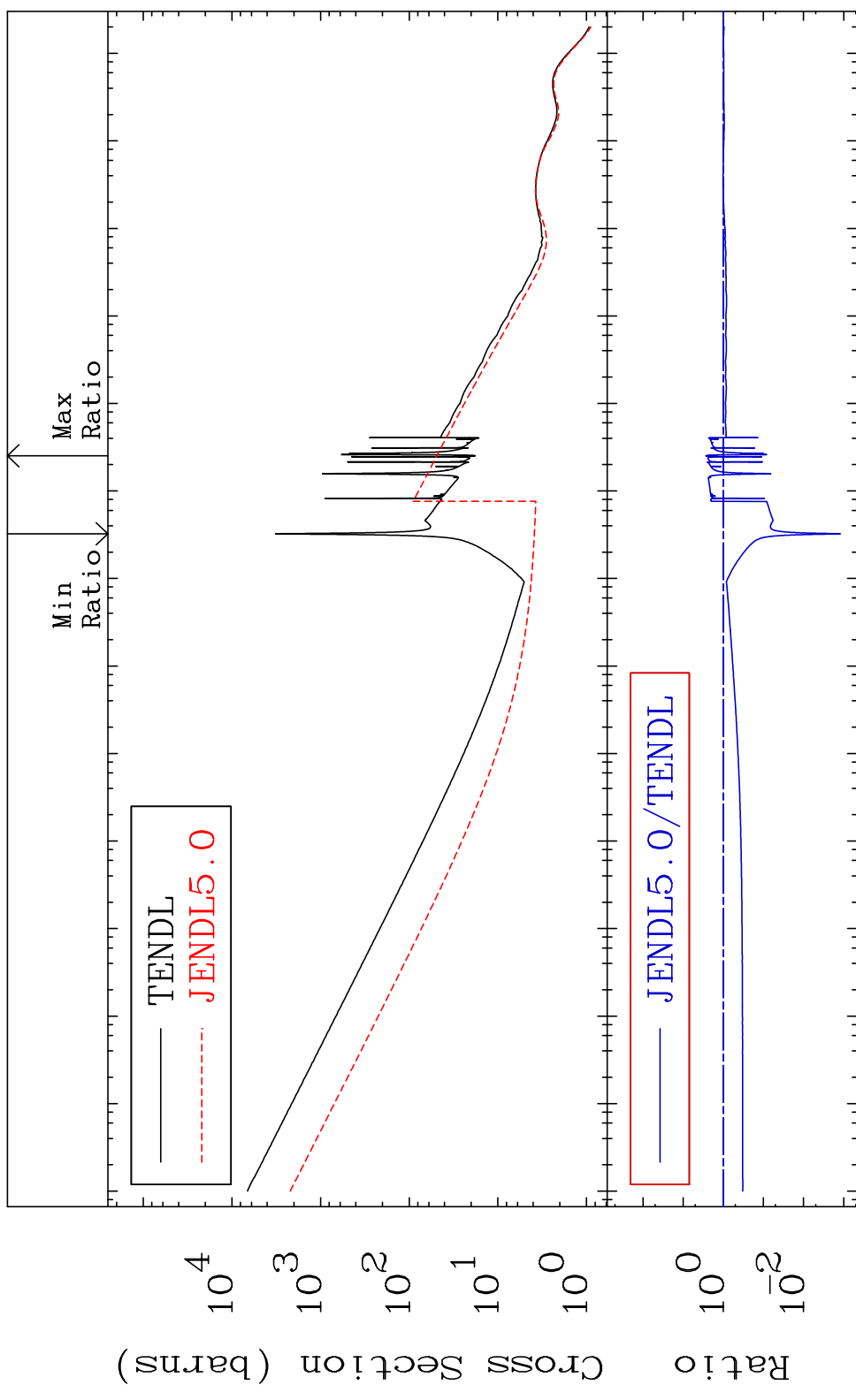
Press Mouse Button to Start

MAT 2319

Total

23-V -48

Cross Section -99.88 To 173.0 %



Ratio
10⁰
10⁻²
10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵
10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

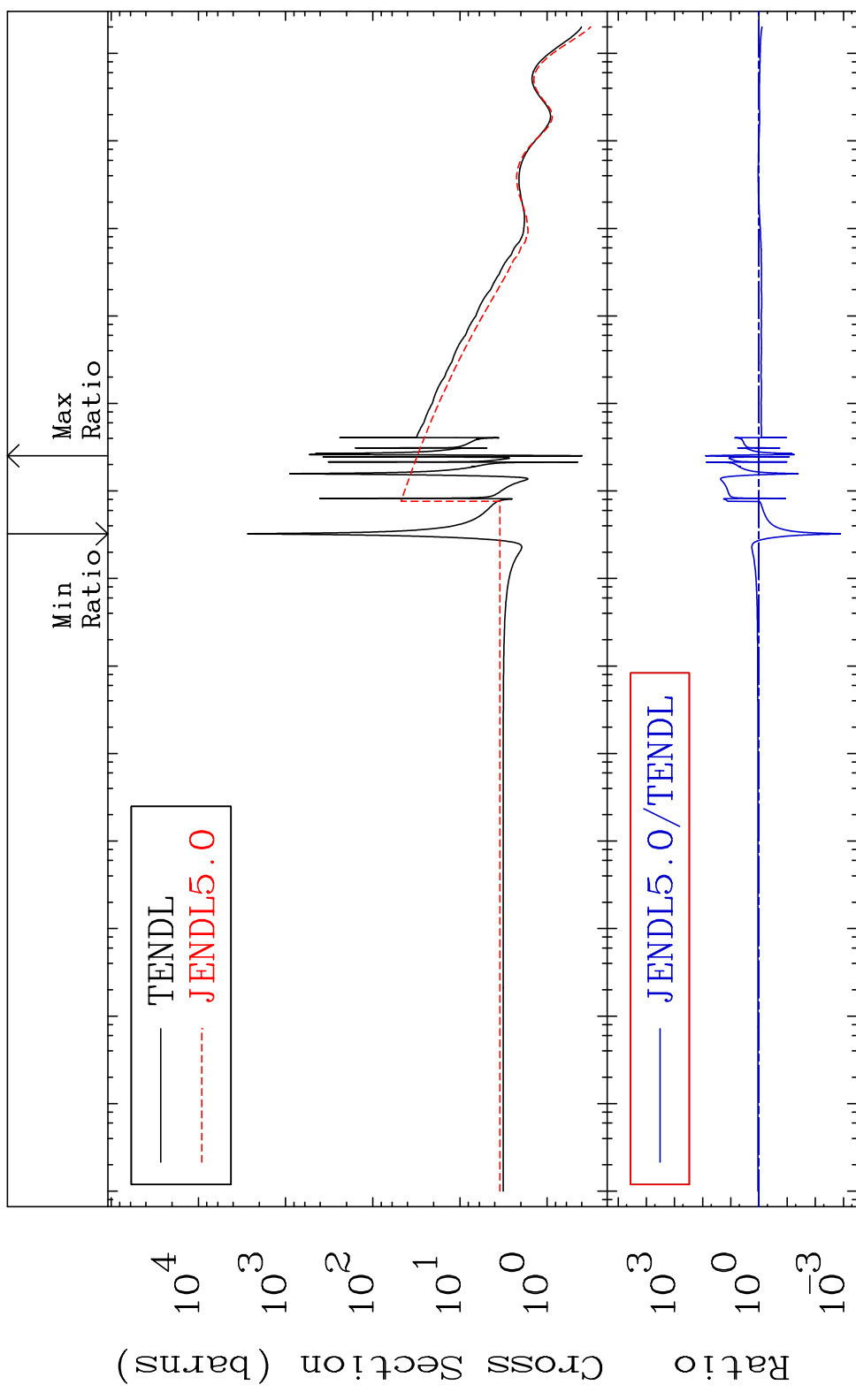
1

Incident Energy (eV)

23-V -48

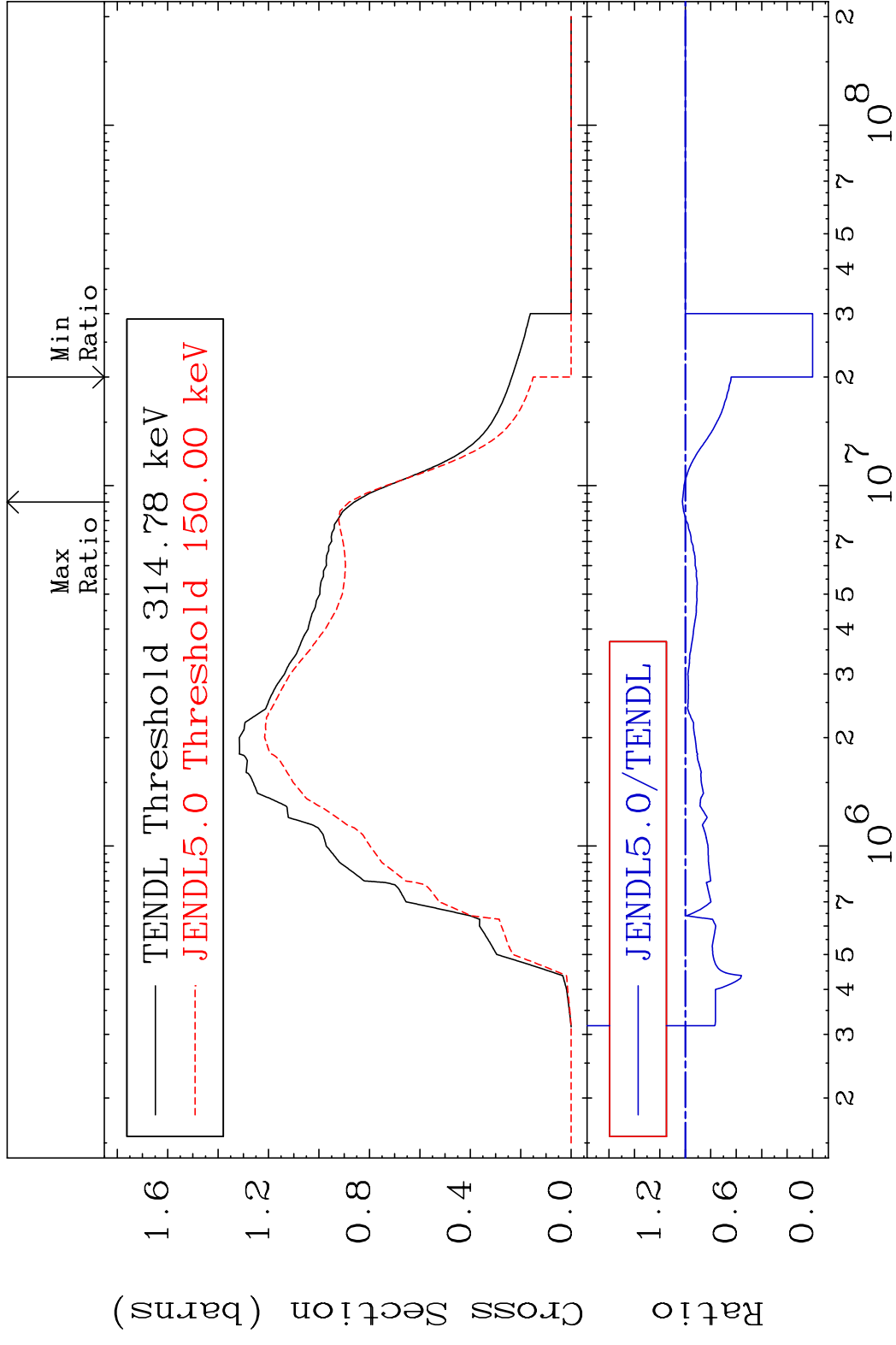
MAT 2319

Elastic Cross Section -99.87 To 7652. %
23-V -48



2 Incident Energy (eV) 23-V -48

MAT 2319 Inelastic Cross Section -100.0 To 2.316 % 23-V -48

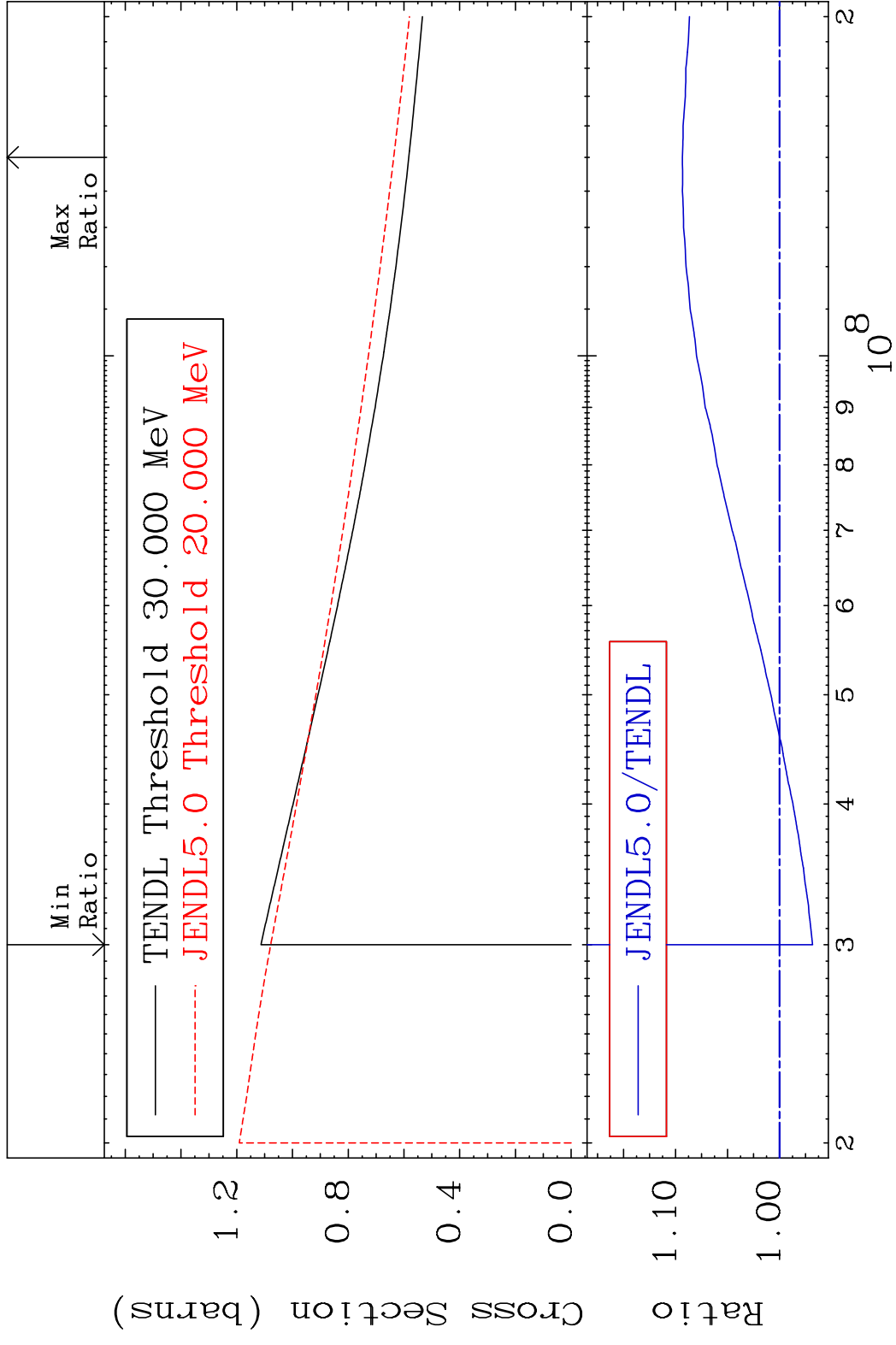


MAT 2319

(n, remainder)

23-V -48

Cross Section -3.175 To 9.339 %

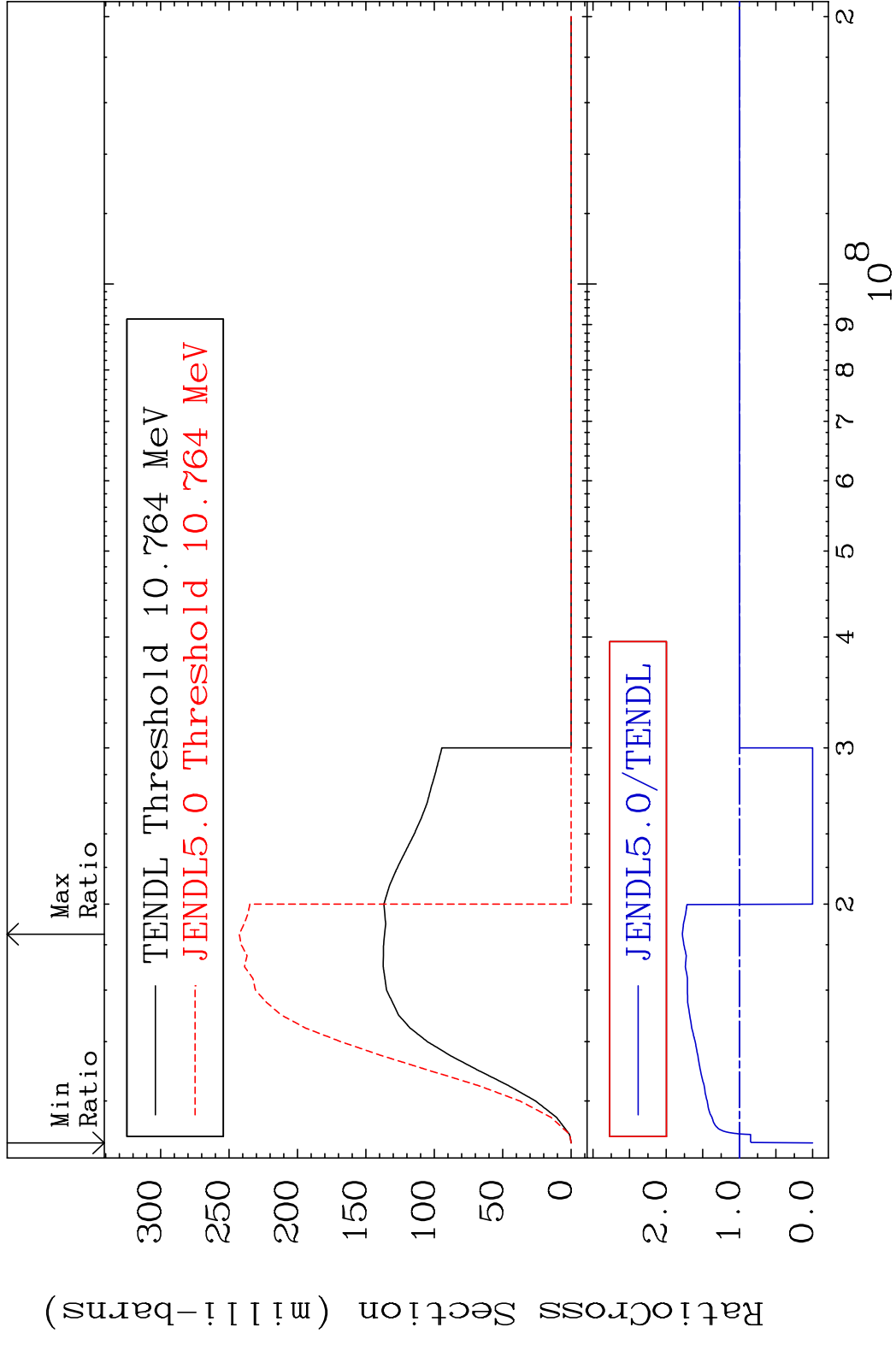


4

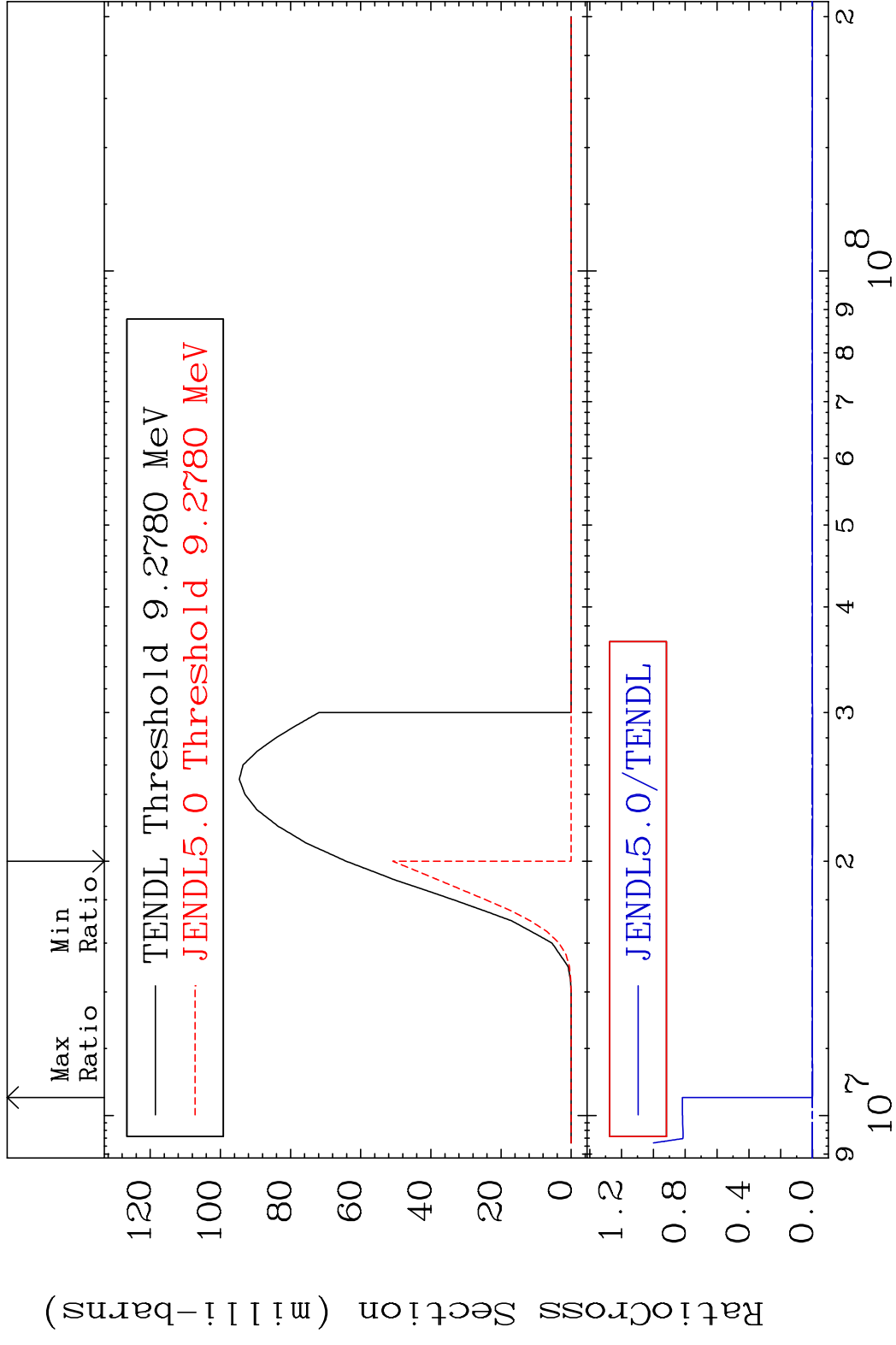
Incident Energy (eV)

23-V -48

MAT 2319 (n,2n) 23-V -48
 Cross Section -100.0 To 77.89 %

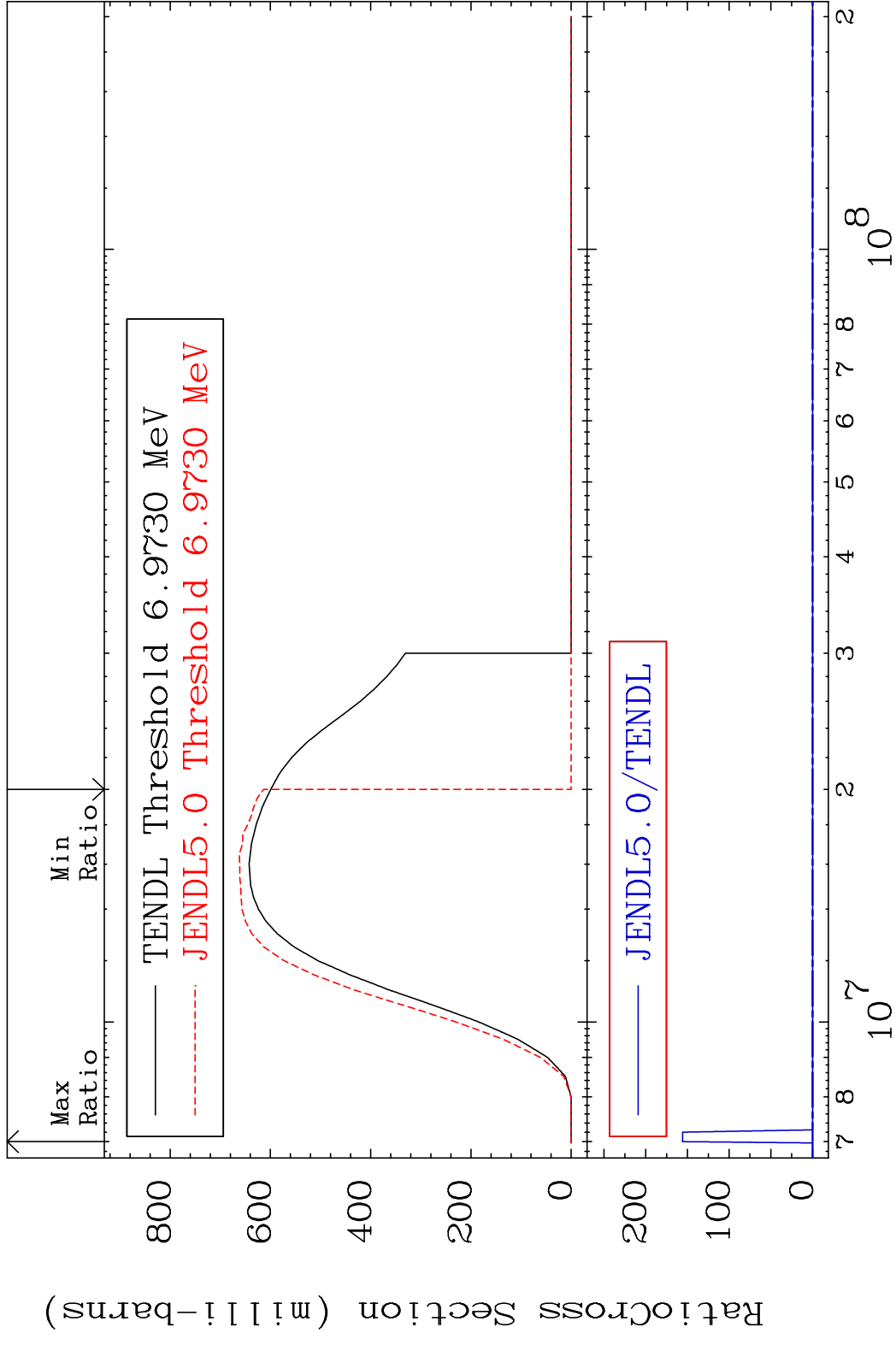


MAT 2319 (n, n') α 23-V -48
 Cross Section -100.0 To 9999. %



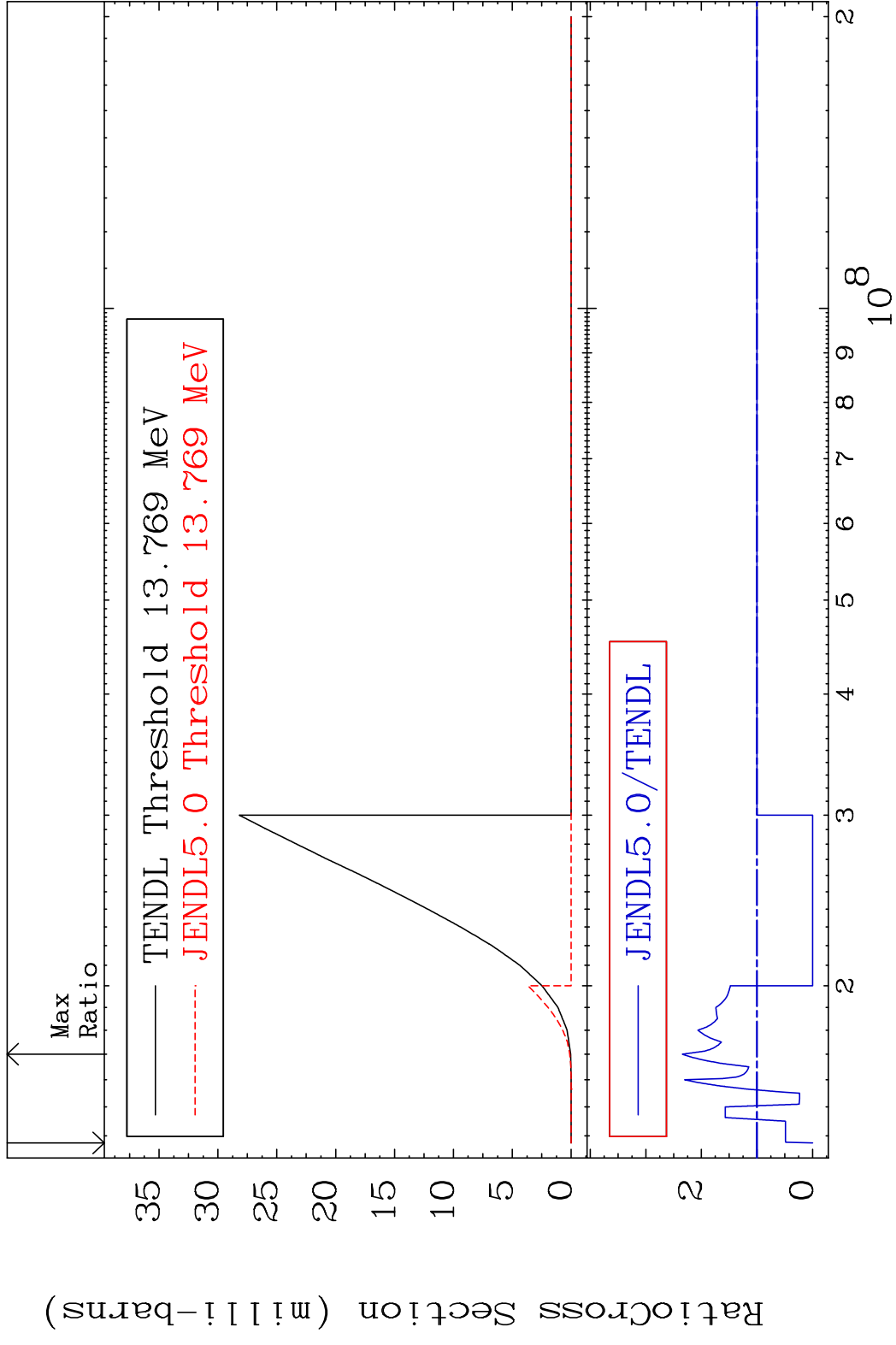
6 6 Incident Energy (eV) 23-V -48

MAT 2319 (n, n') p 23-V -48
 Cross Section -100.0 To 9999. %

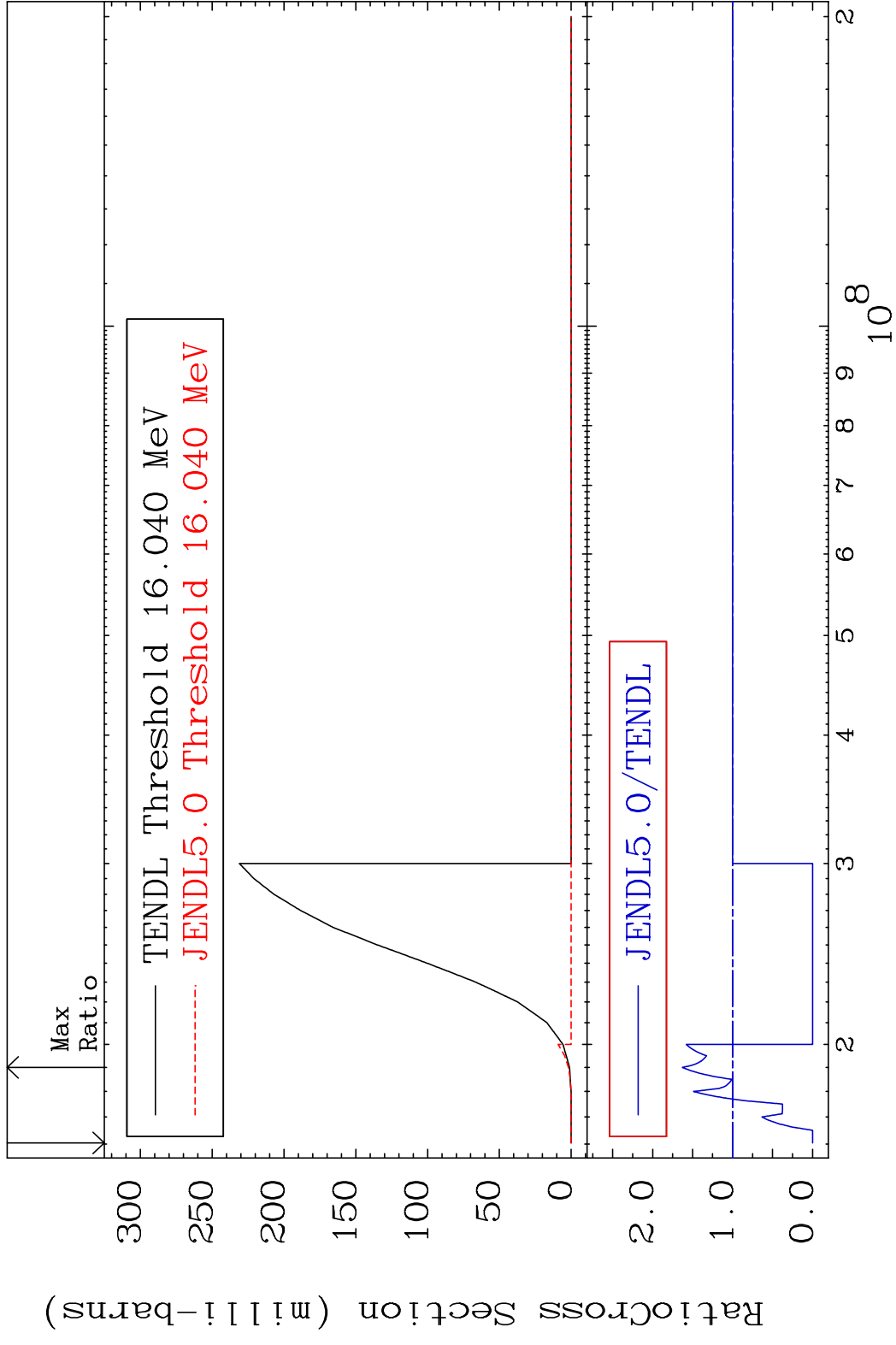


7 8 10⁷ 2 3 4 5 6 7 8 10⁸ 23-V -48

MAT 2319 (n, n') d 23-V -48
 Cross Section -100.0 To 134.3 %

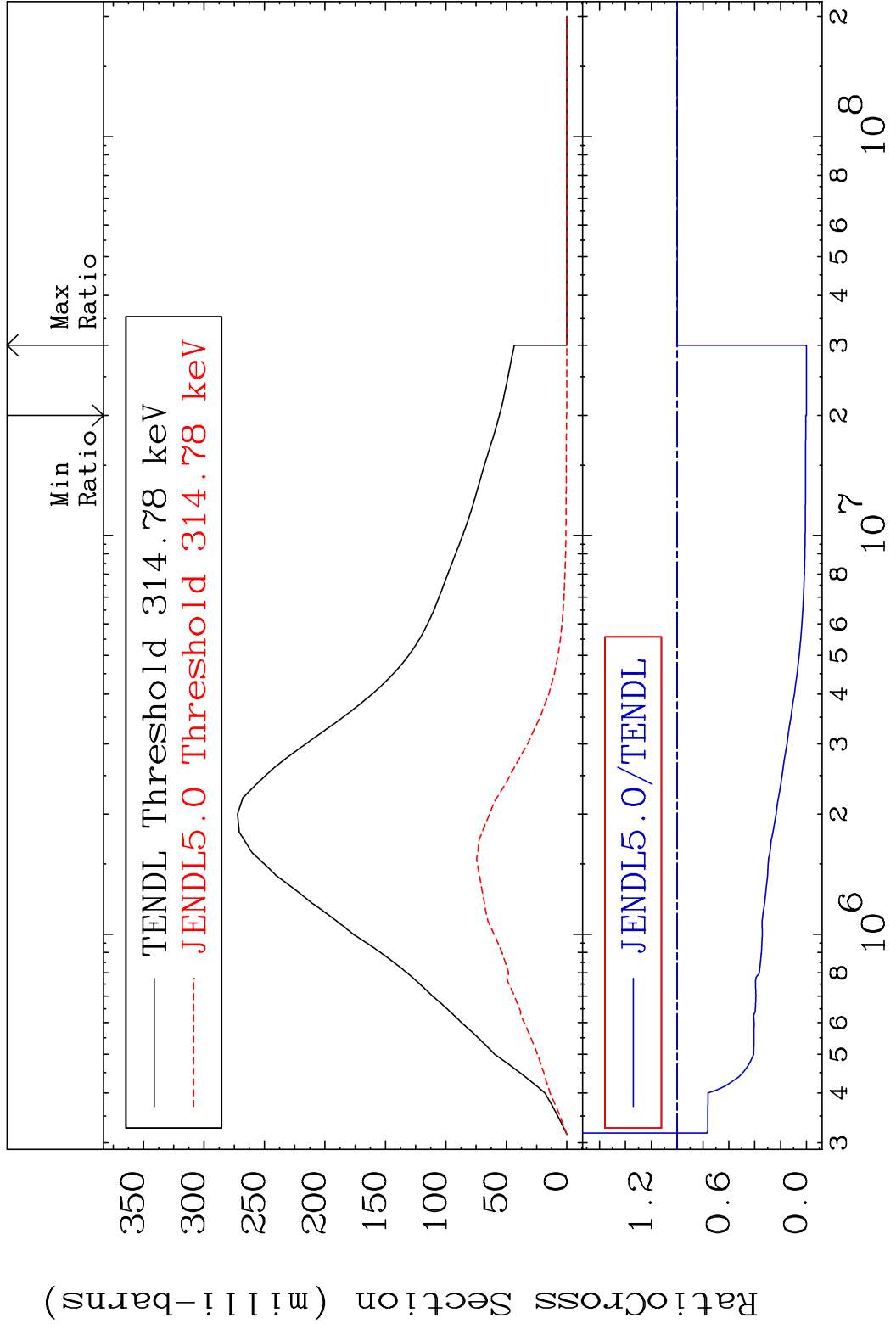


MAT 2319 (n,2n) p 23-V -48
 Cross Section -100.0 To 62.83 %



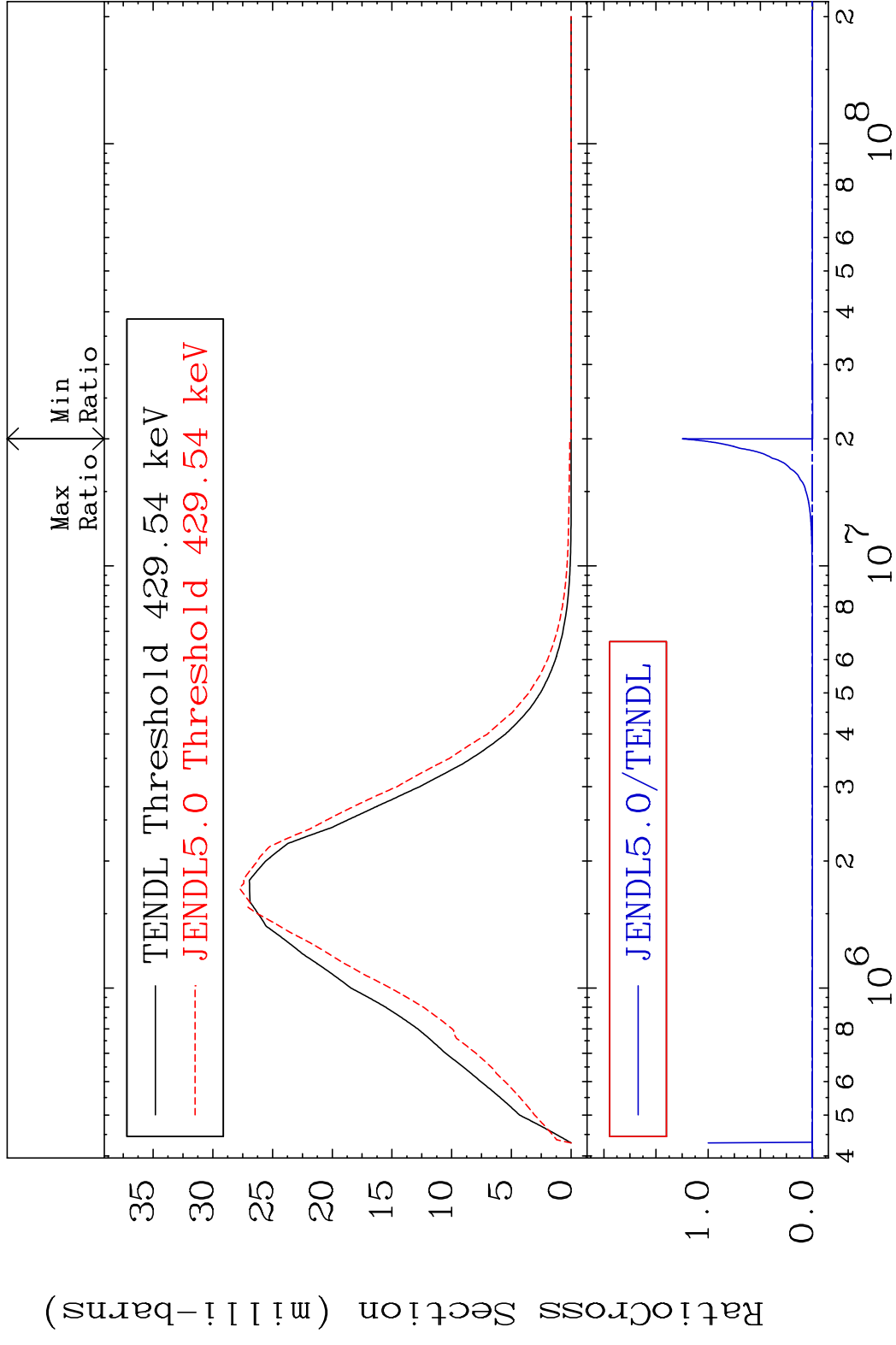
9 Incident Energy (eV) 23-V -48

MAT 2319 MT= 51 (n, n') Level 23-V -48
 Cross Section -100.0 To 0.000 %

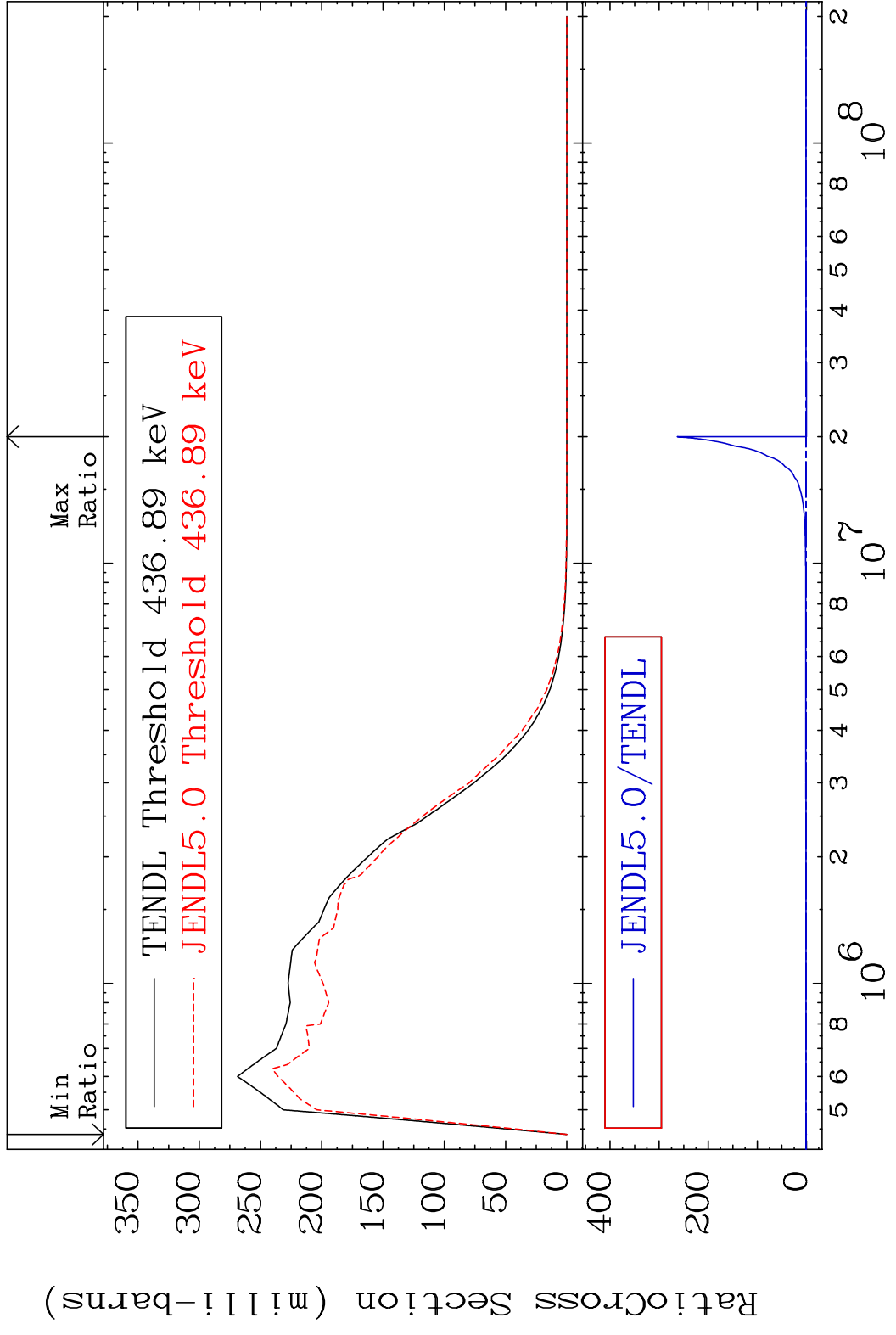


10 Incident Energy (eV) 23-V -48

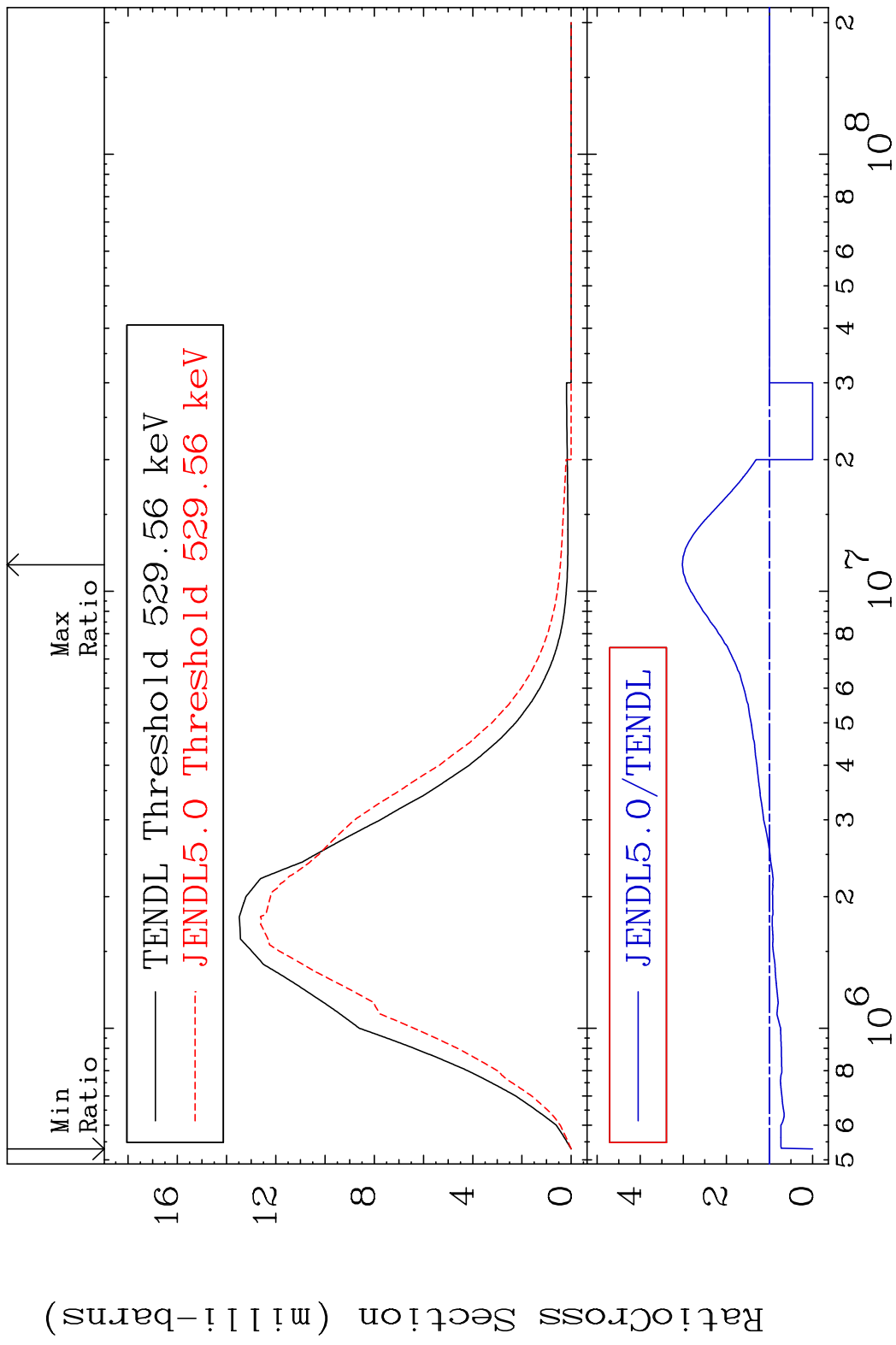
MAT 2319 MT= 52 (n,n') Level 23-V -48
 Cross Section -100.0 To 9999. %



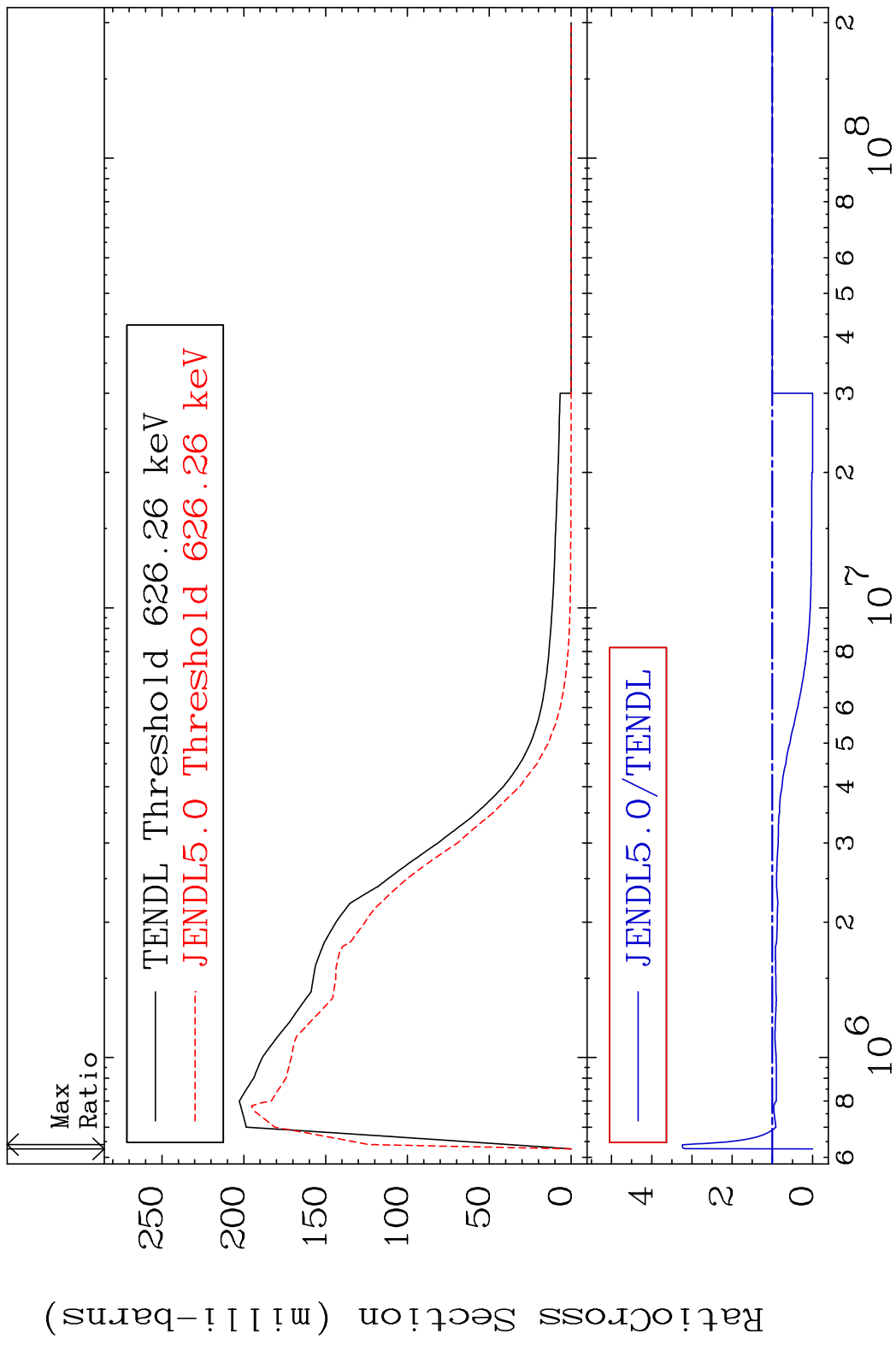
MAT 2319 MT= 53 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %



MAT 2319 MT= 54 (n, n') Level 23-V -48
 Cross Section -100.0 To 202.2 %

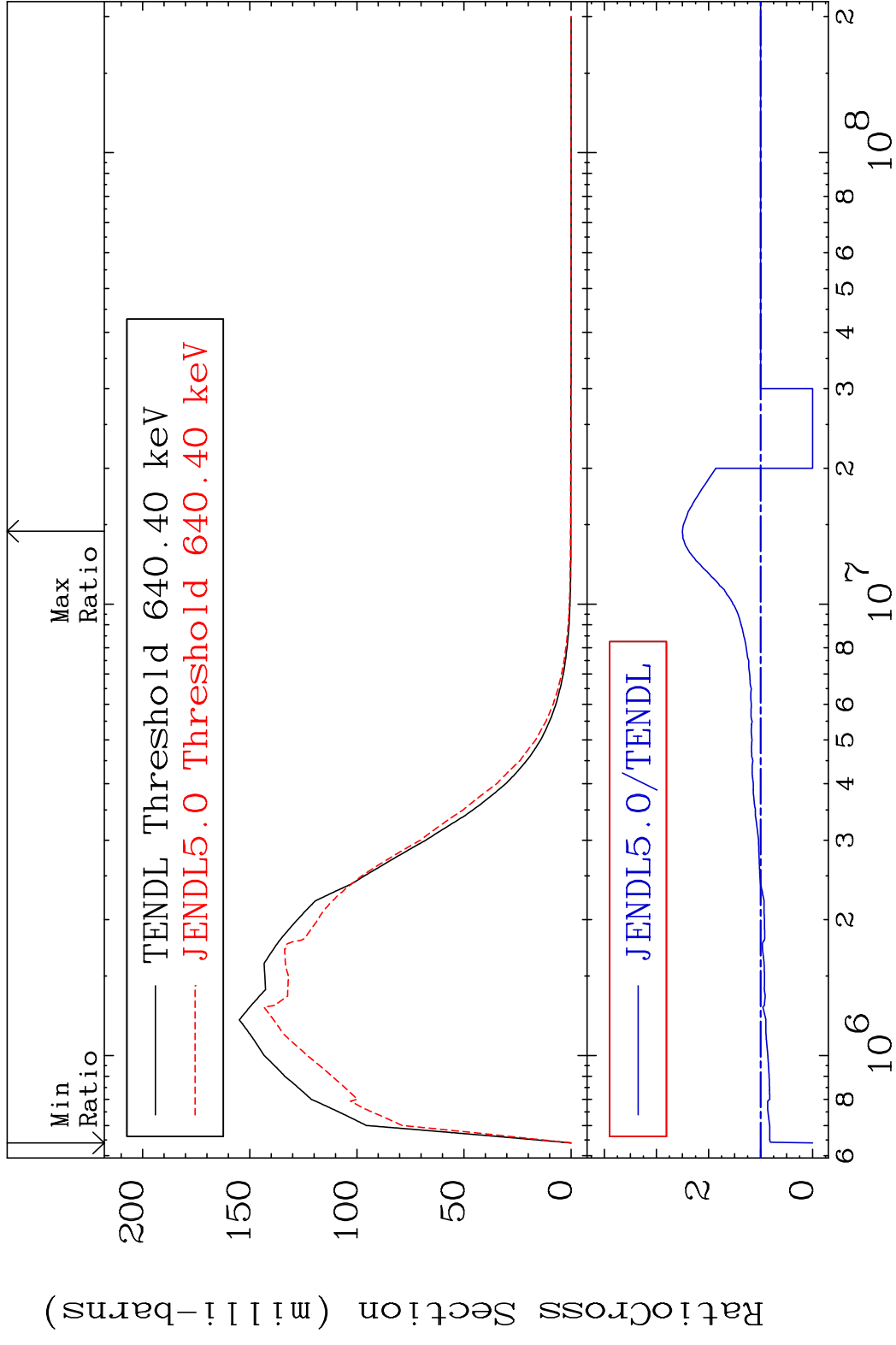


MAT 2319 MT= 55 (n,n') Level 23-V -48
 Cross Section -100.0 To 223.9 %



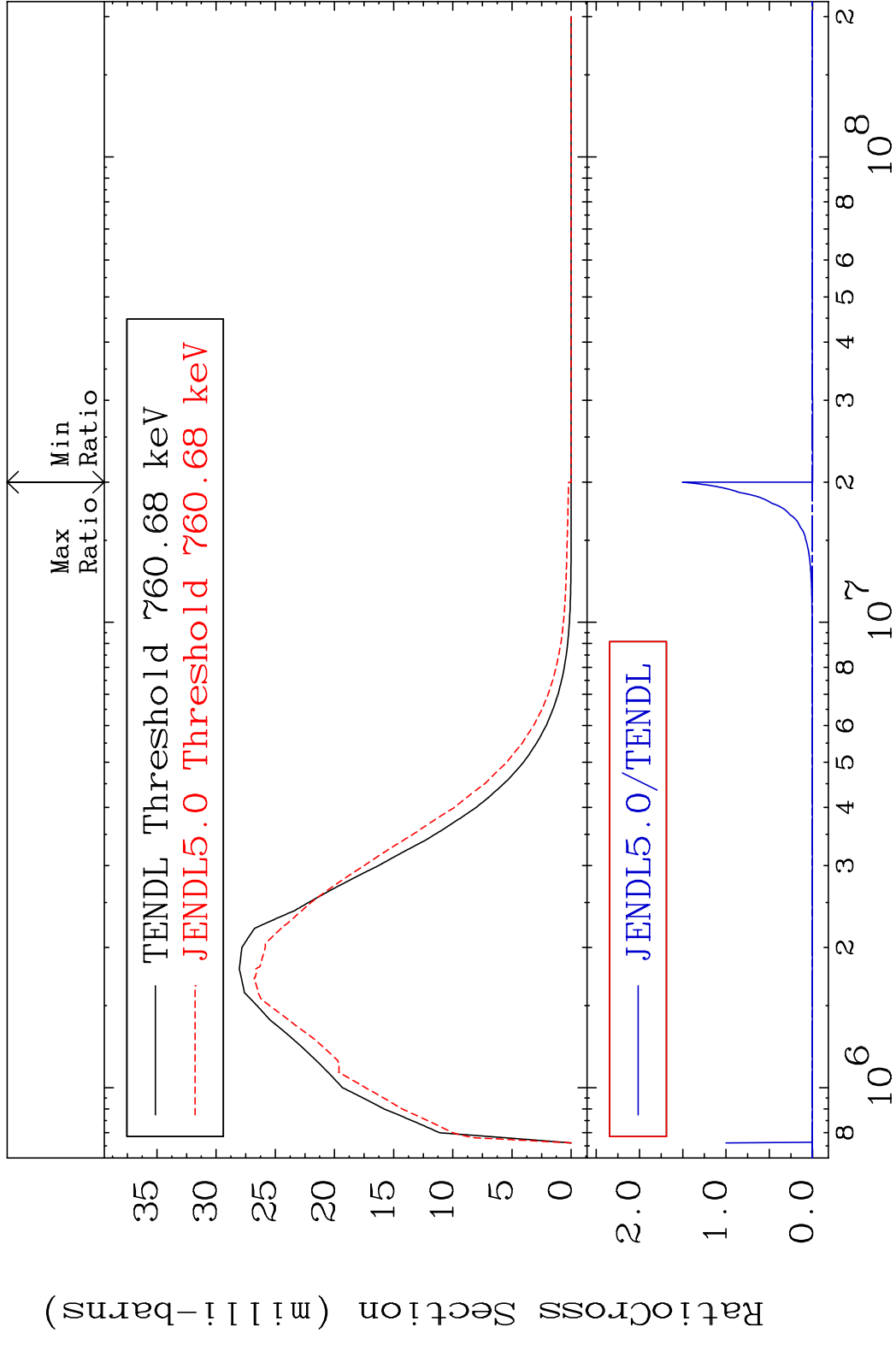
14 Incident Energy (eV) 23-V -48

MAT 2319 MT= 56 (n, n') Level 23-V -48
 Cross Section -100.0 To 150.3 %



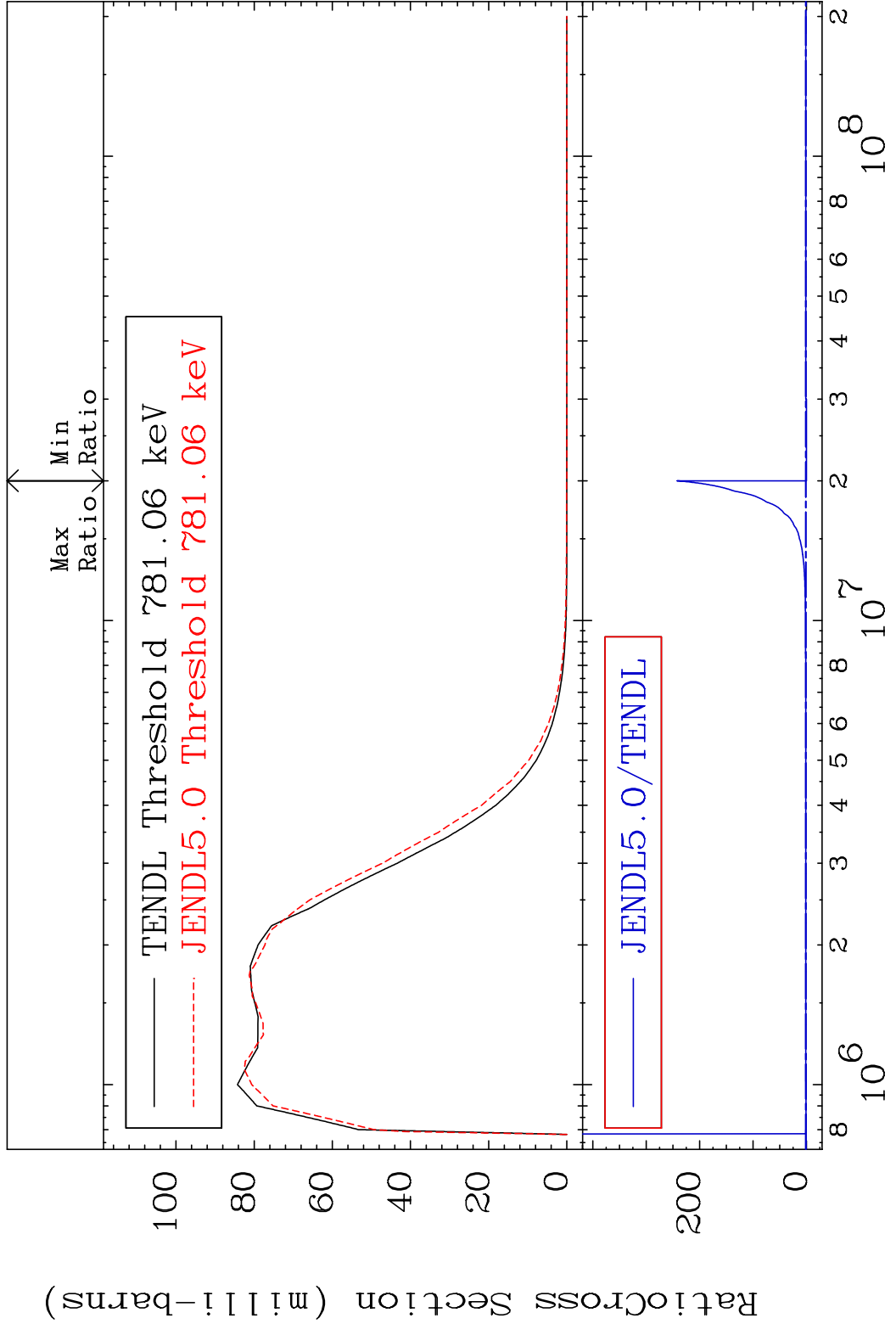
15 Incident Energy (eV) 23-V -48

MAT 2319 MT= 57 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %



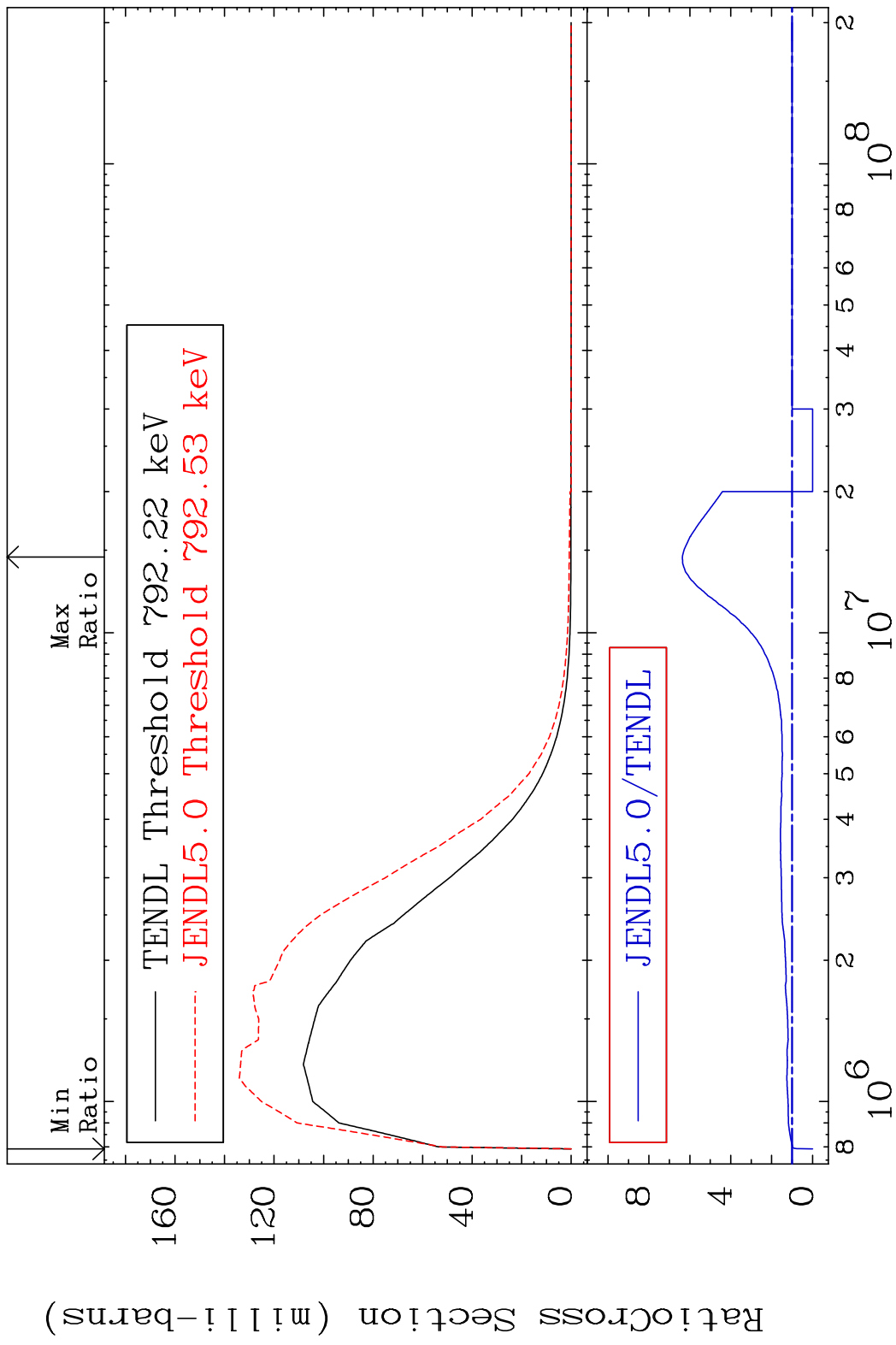
16 Incident Energy (eV) 23-V -48

MAT 2319 MT= 58 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %



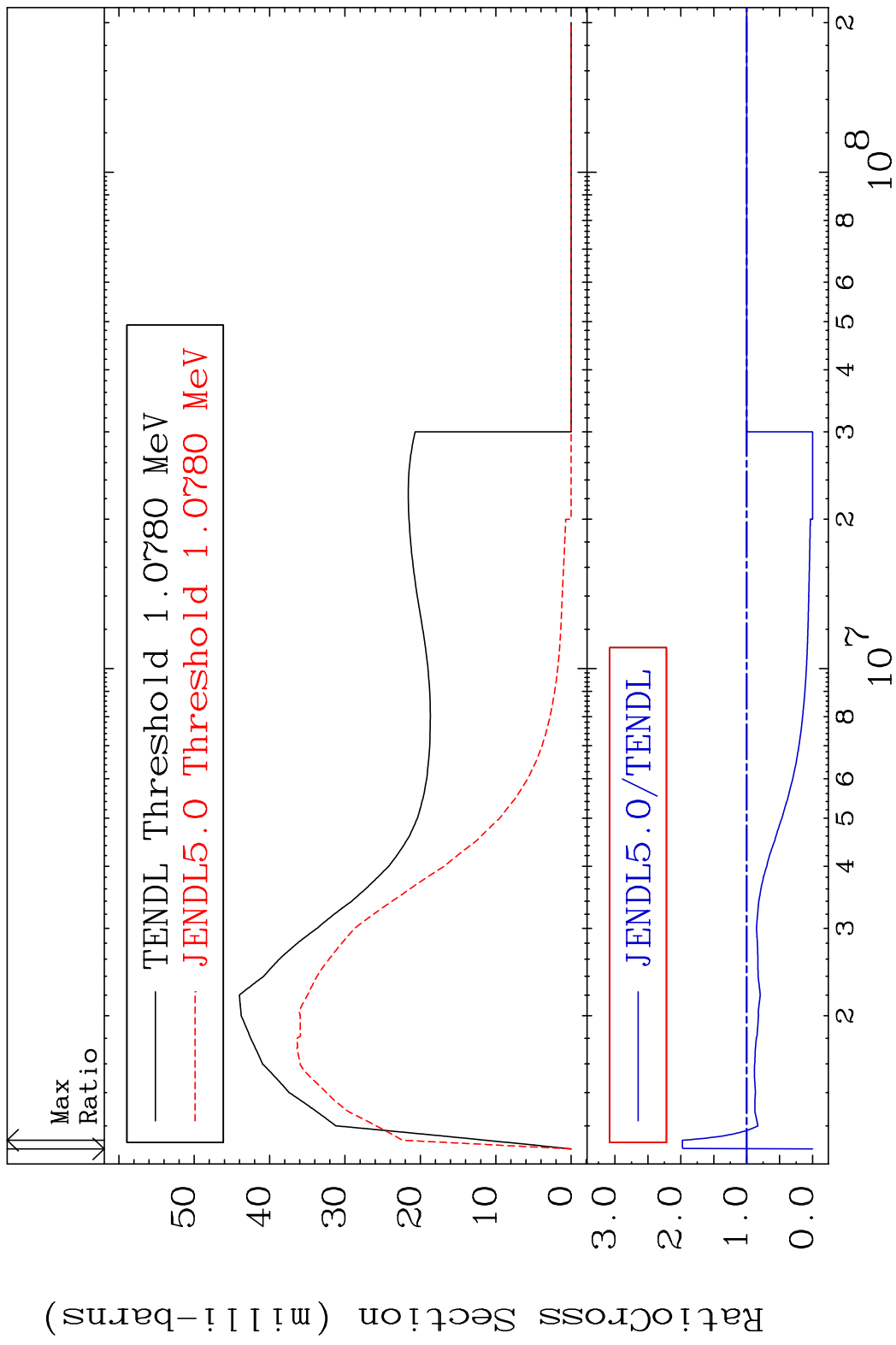
17 23-V -48

MAT 2319 MT= 59 (n, n') Level 23-V -48
Cross Section -100.0 To 536.7 %

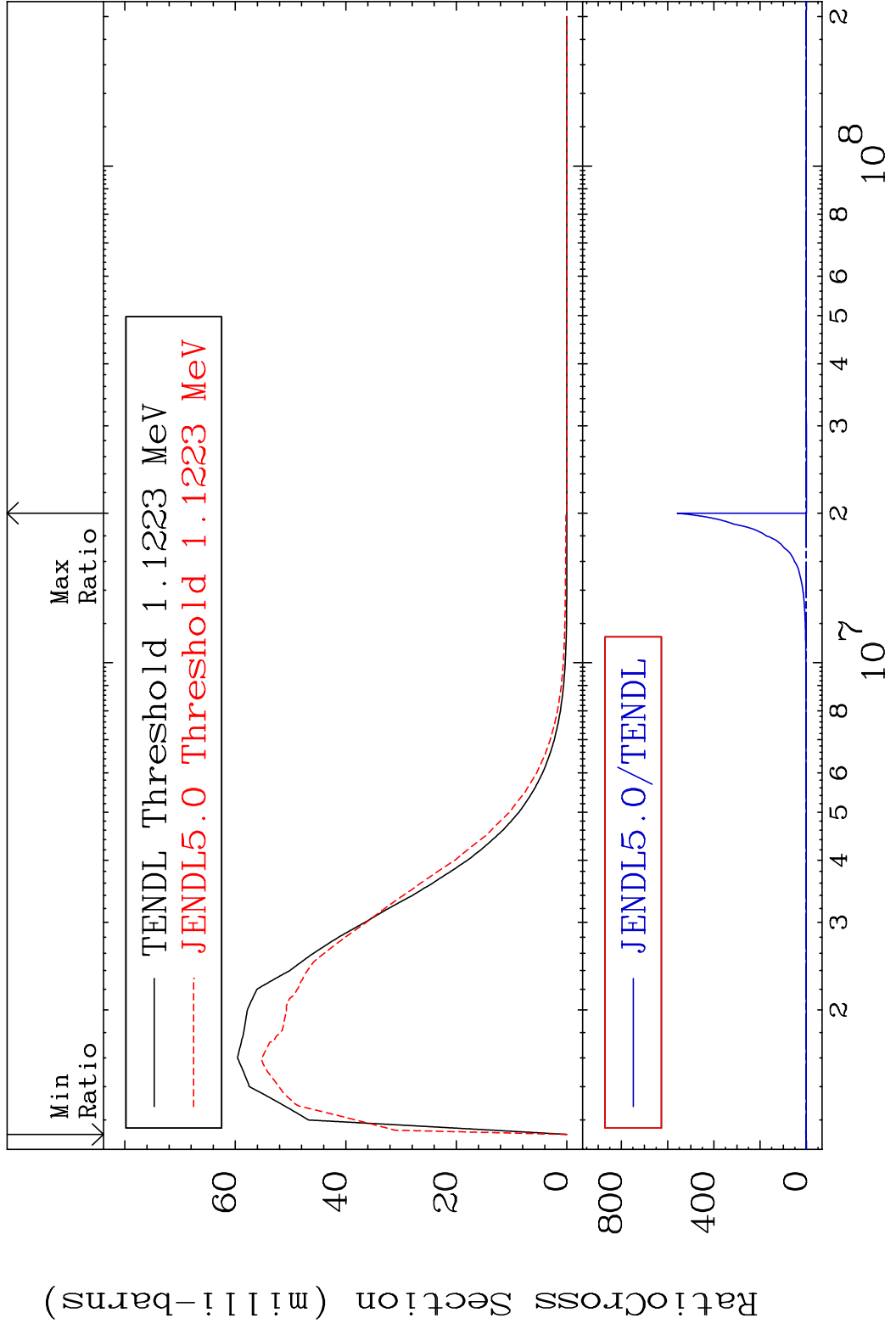


18 18 Incident Energy (eV) 23-V -48

MAT 2319 MT= 60 (n, n') Level 23-V -48
 Cross Section -100.0 To 97.70 %

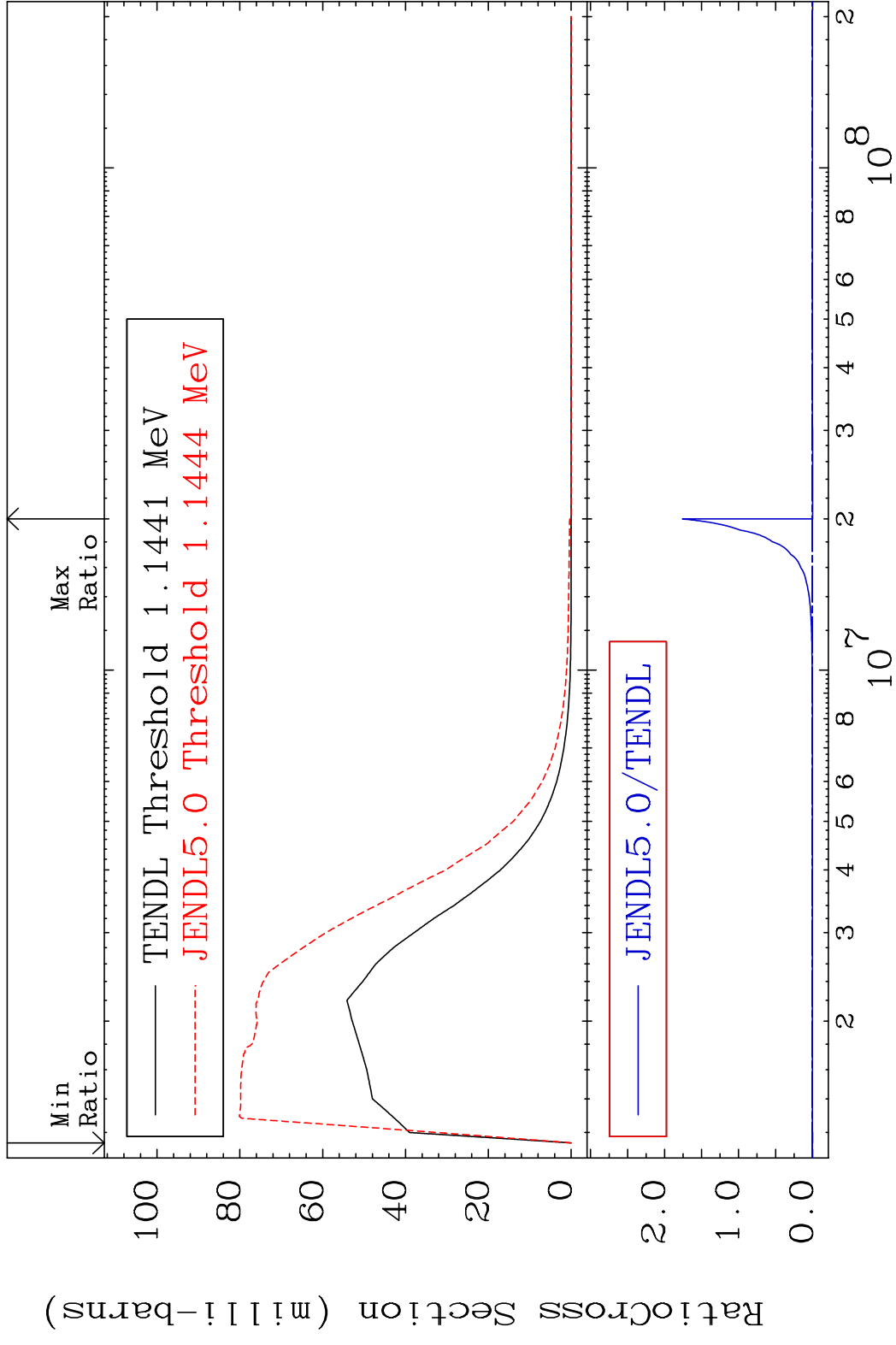


MAT 2319 MT= 61 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %

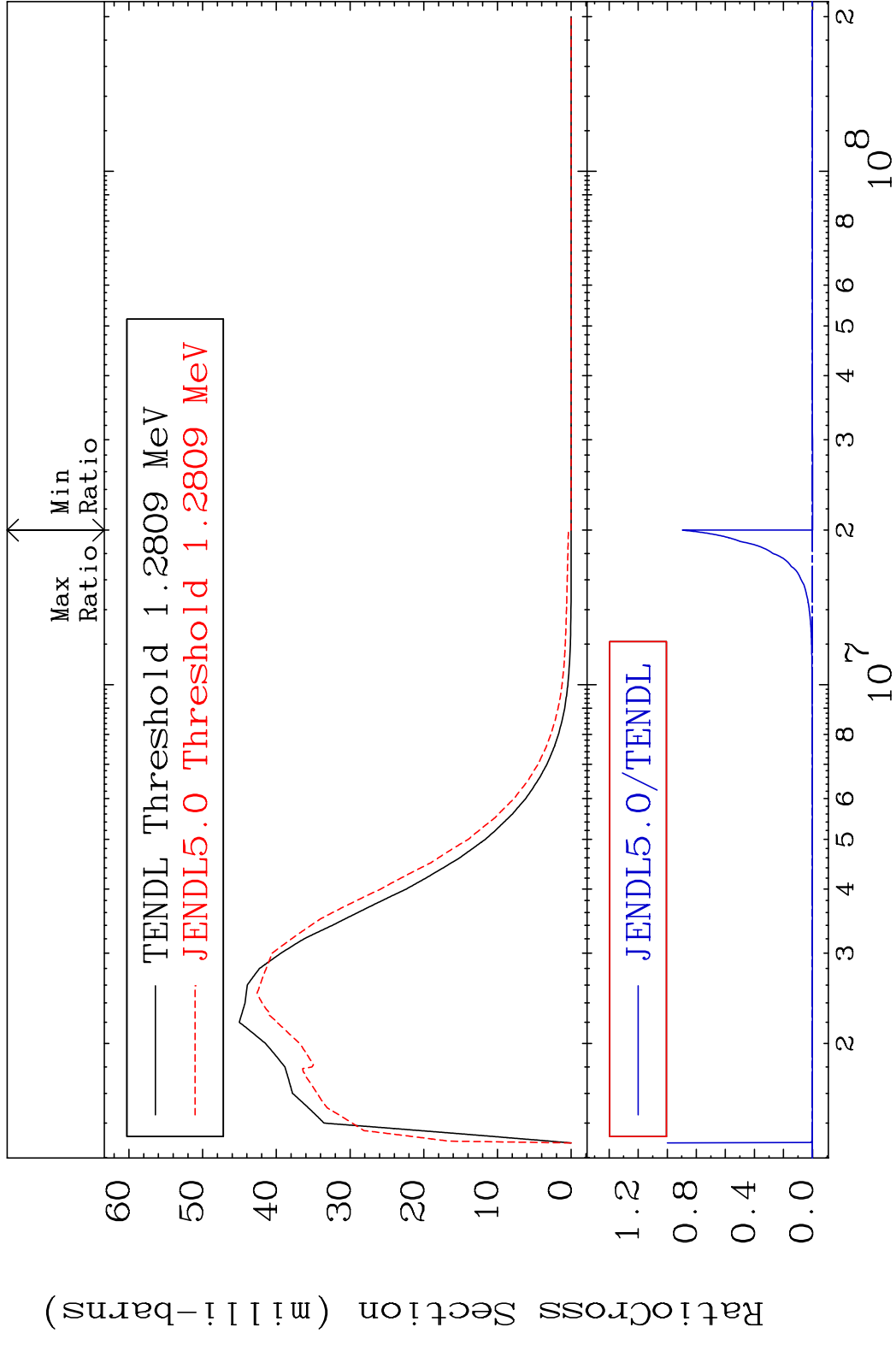


20 Incident Energy (eV) 23-V -48

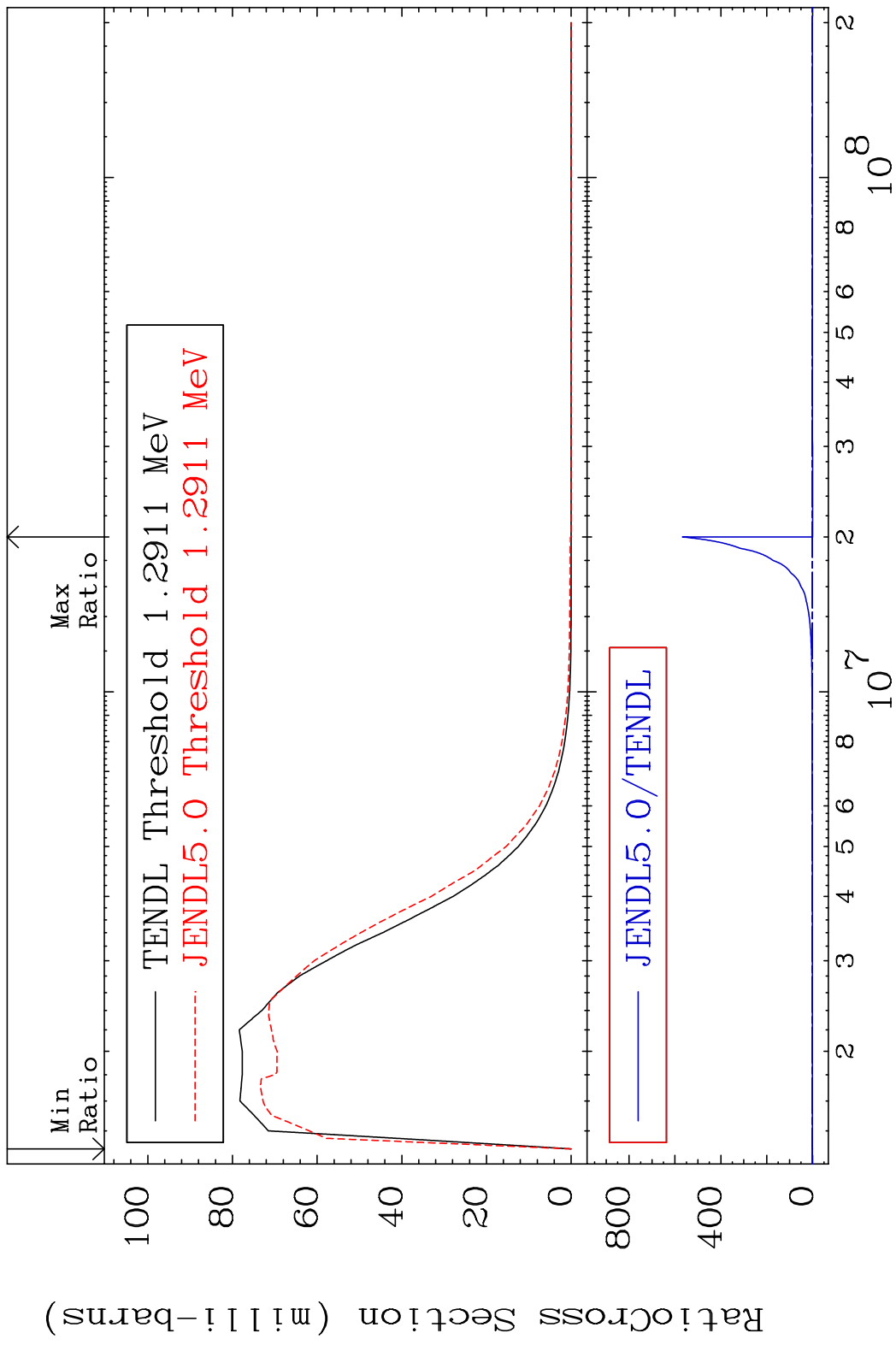
MAT 2319 MT= 62 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %



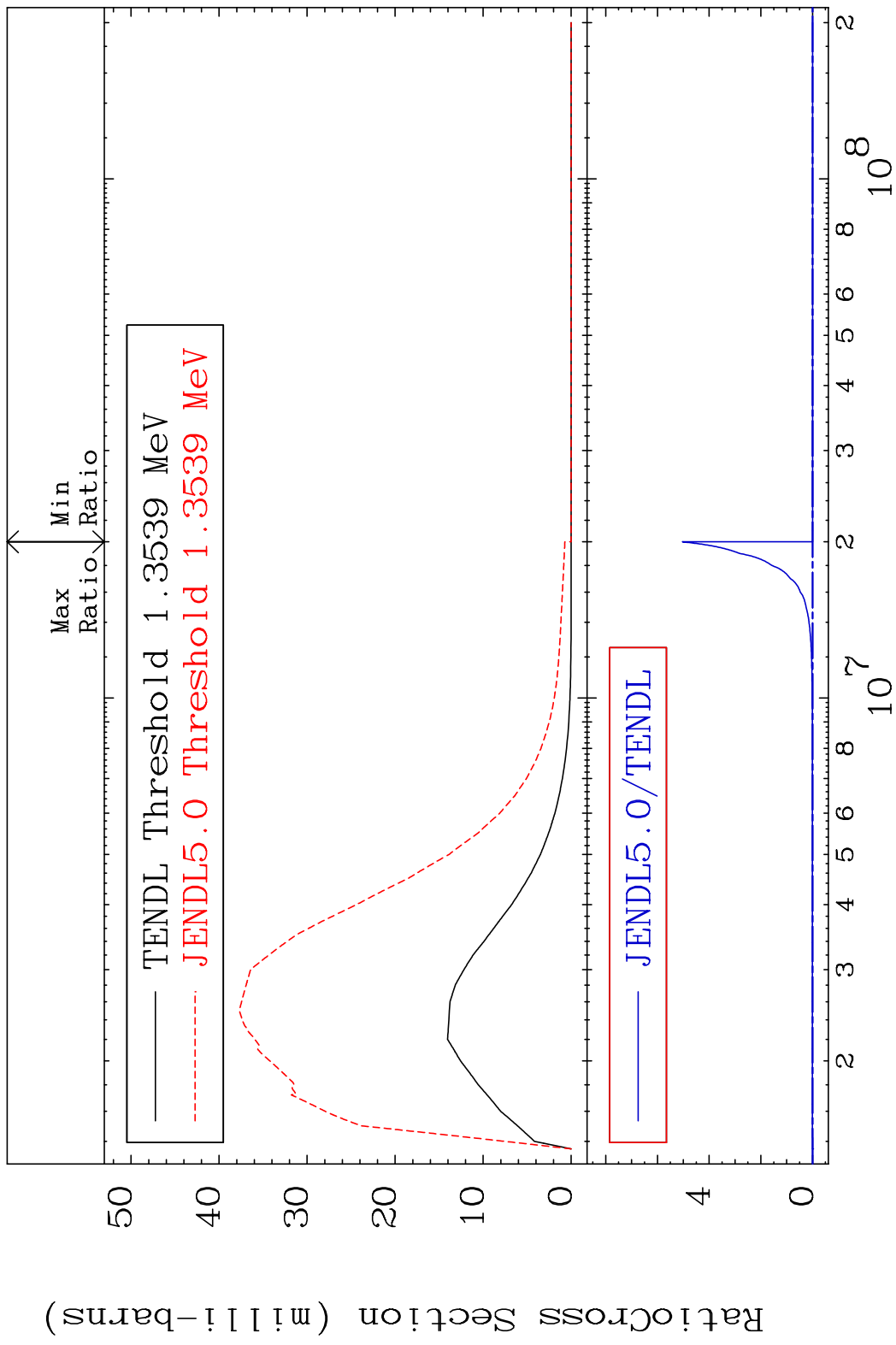
MAT 2319 MT= 63 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %



MAT 2319 MT= 64 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %

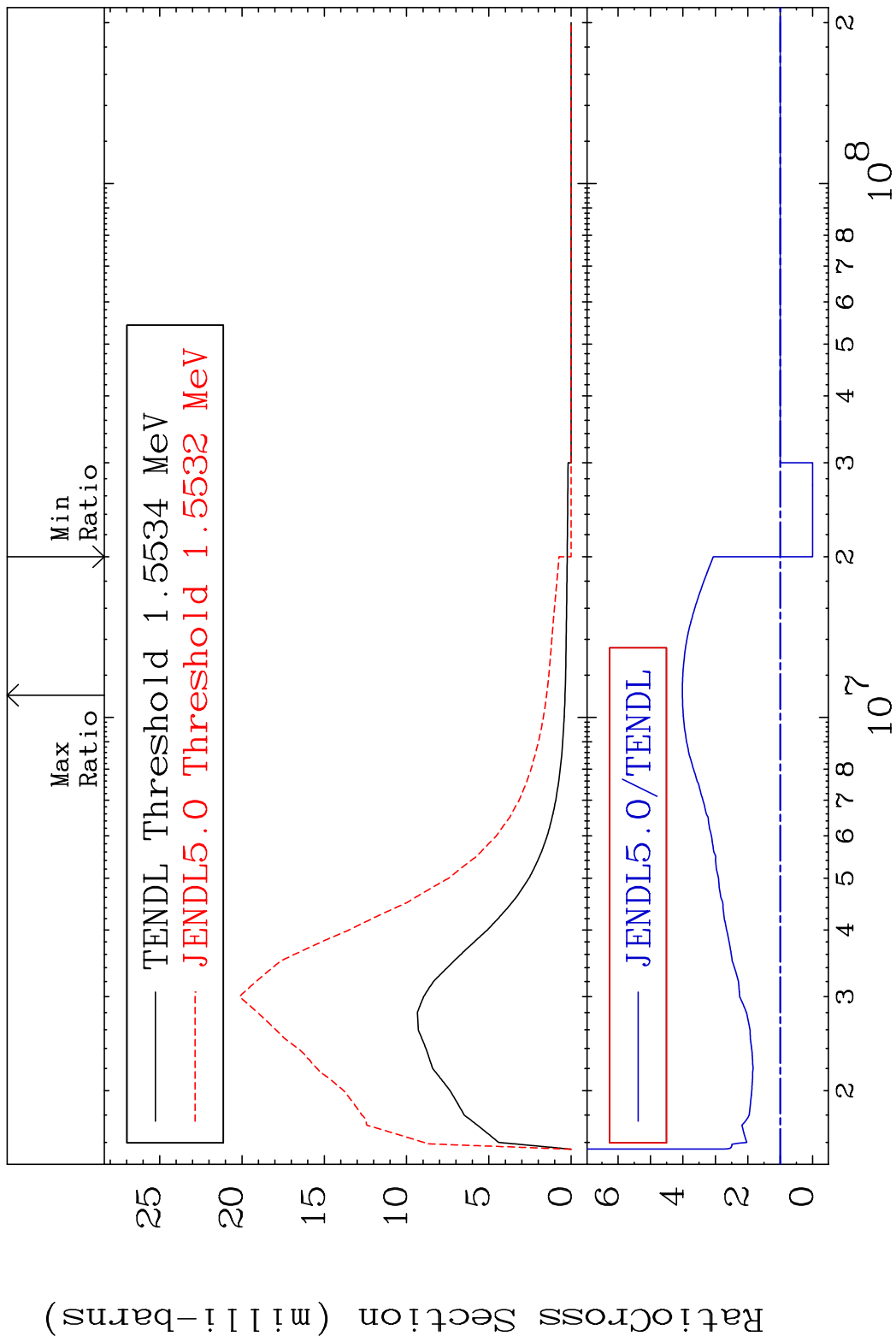


MAT 2319 MT= 65 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %



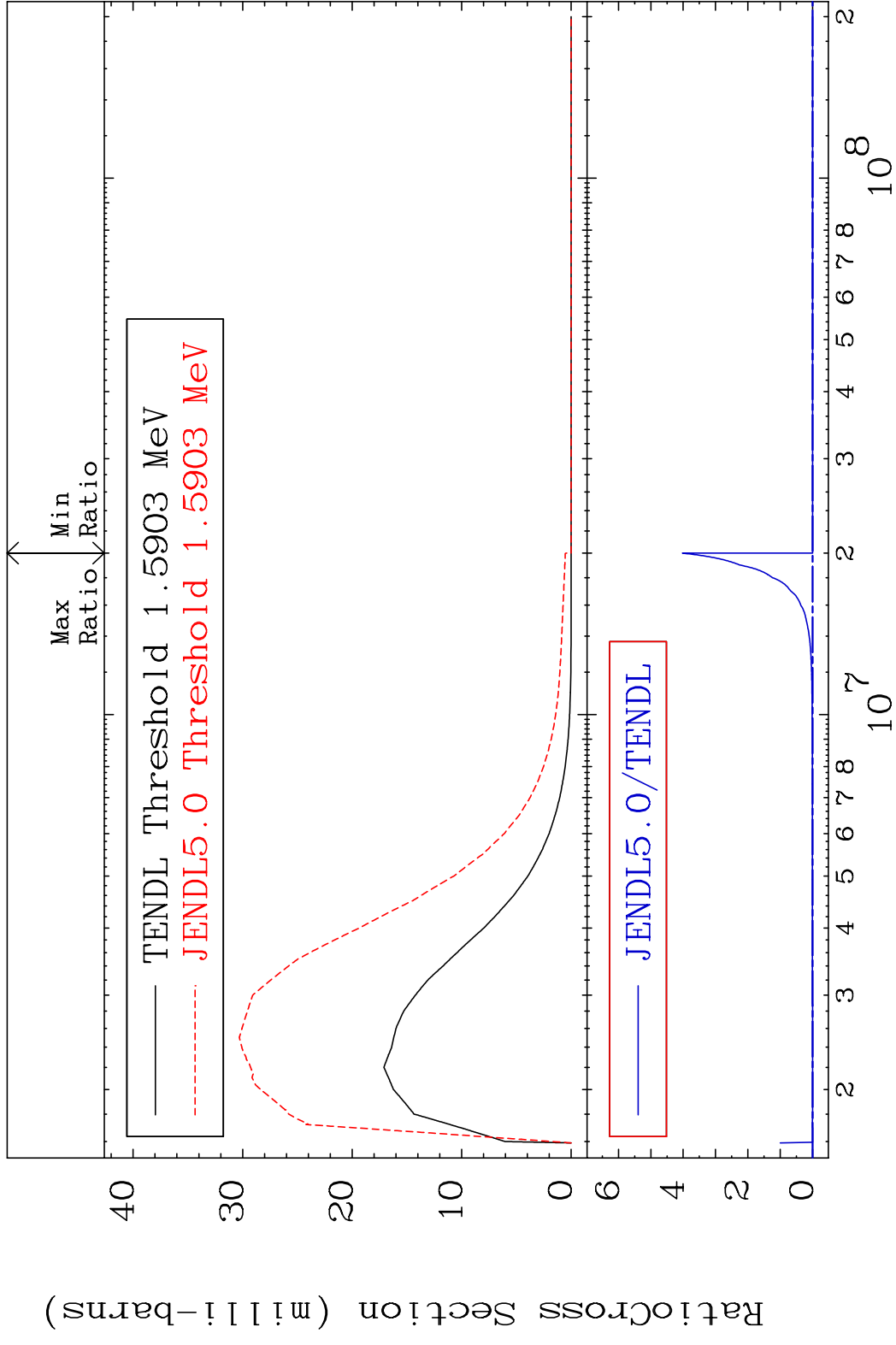
24 Incident Energy (eV) 23-V -48

MAT 2319 MT= 66 (n, n') Level 23-V -48
 Cross Section -100.0 To 301.8 %



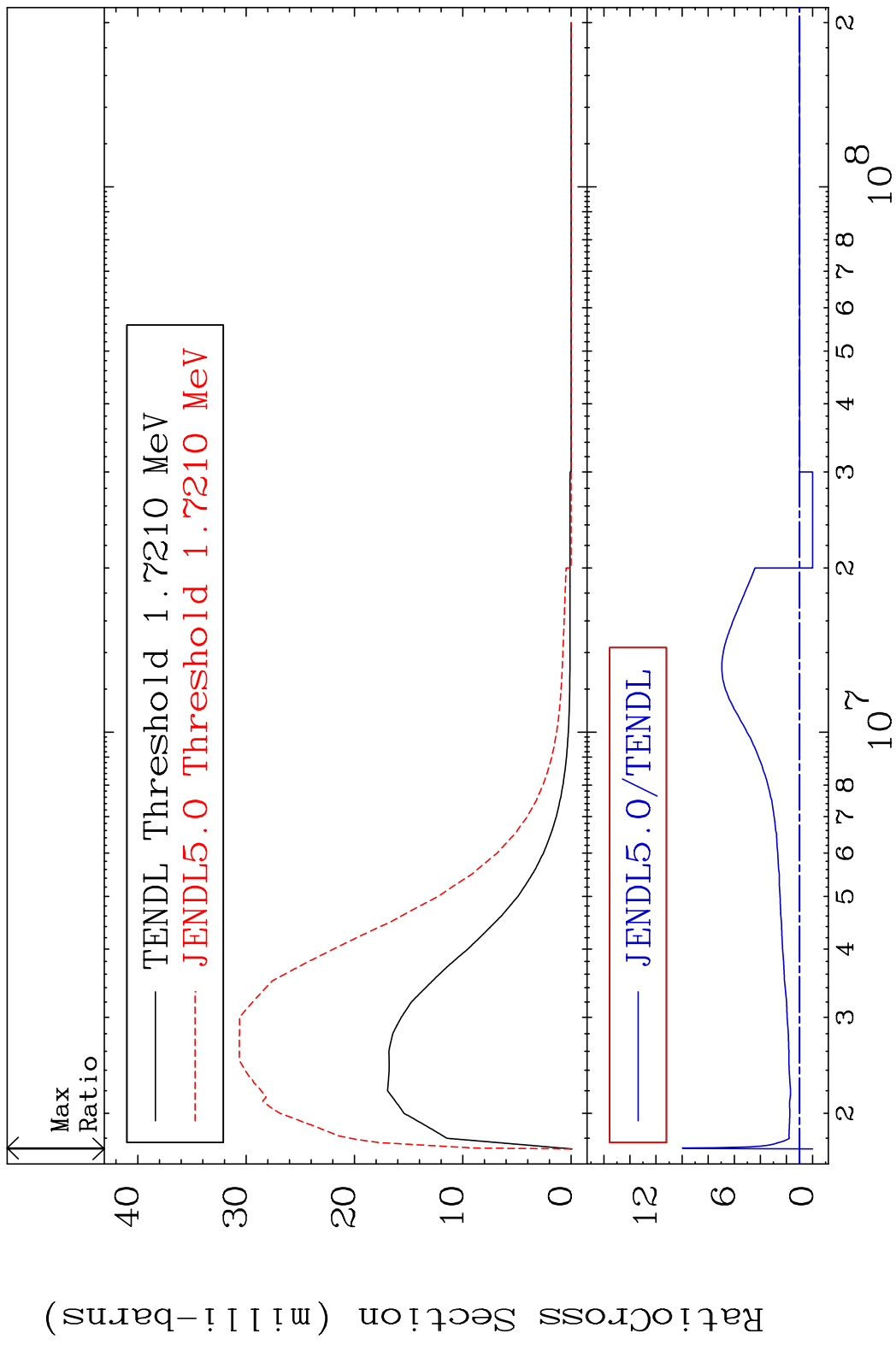
25 Incident Energy (eV) 23-V -48

MAT 2319 MT= 67 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %

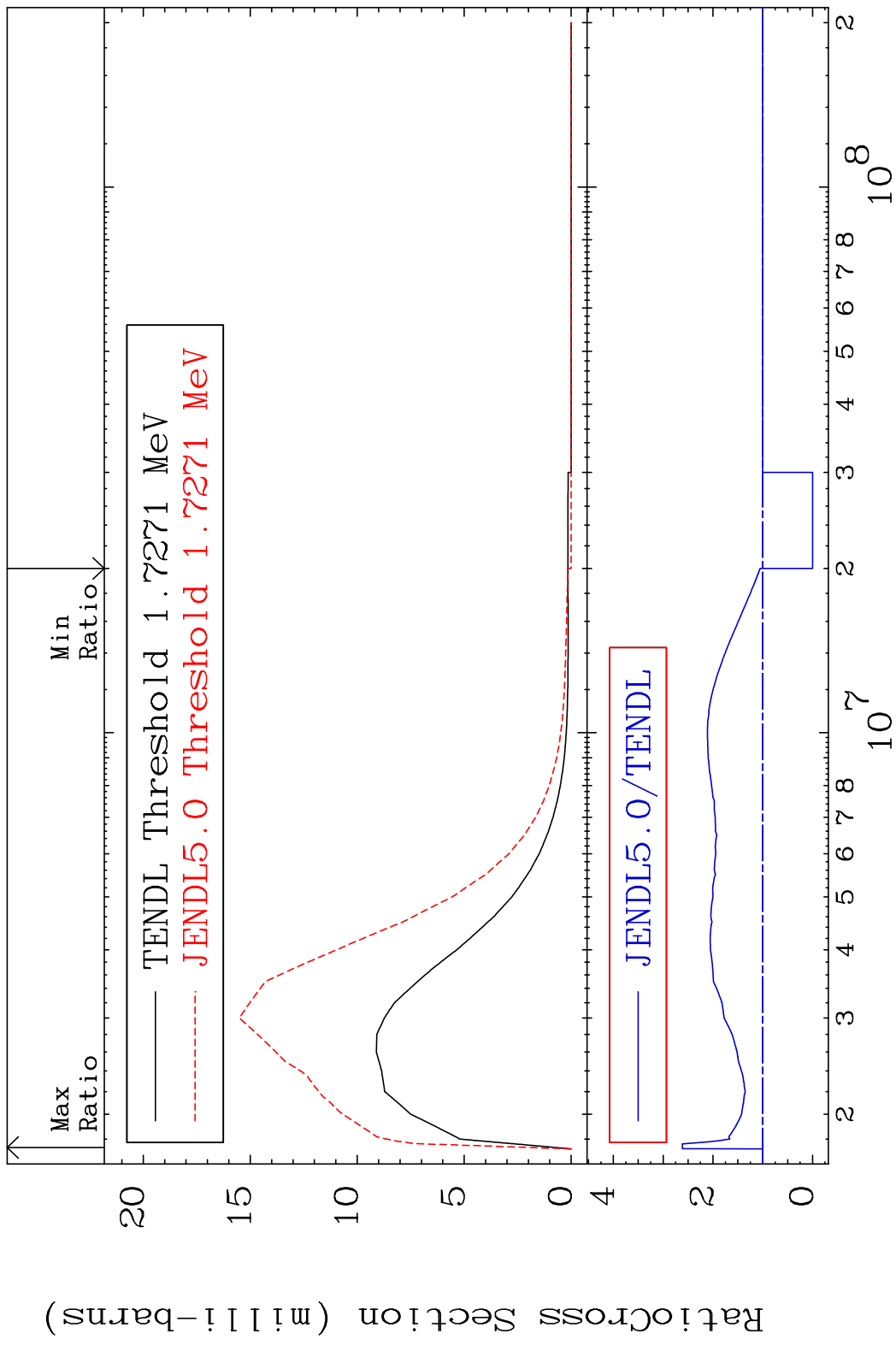


26 Incident Energy (eV) 23-V -48

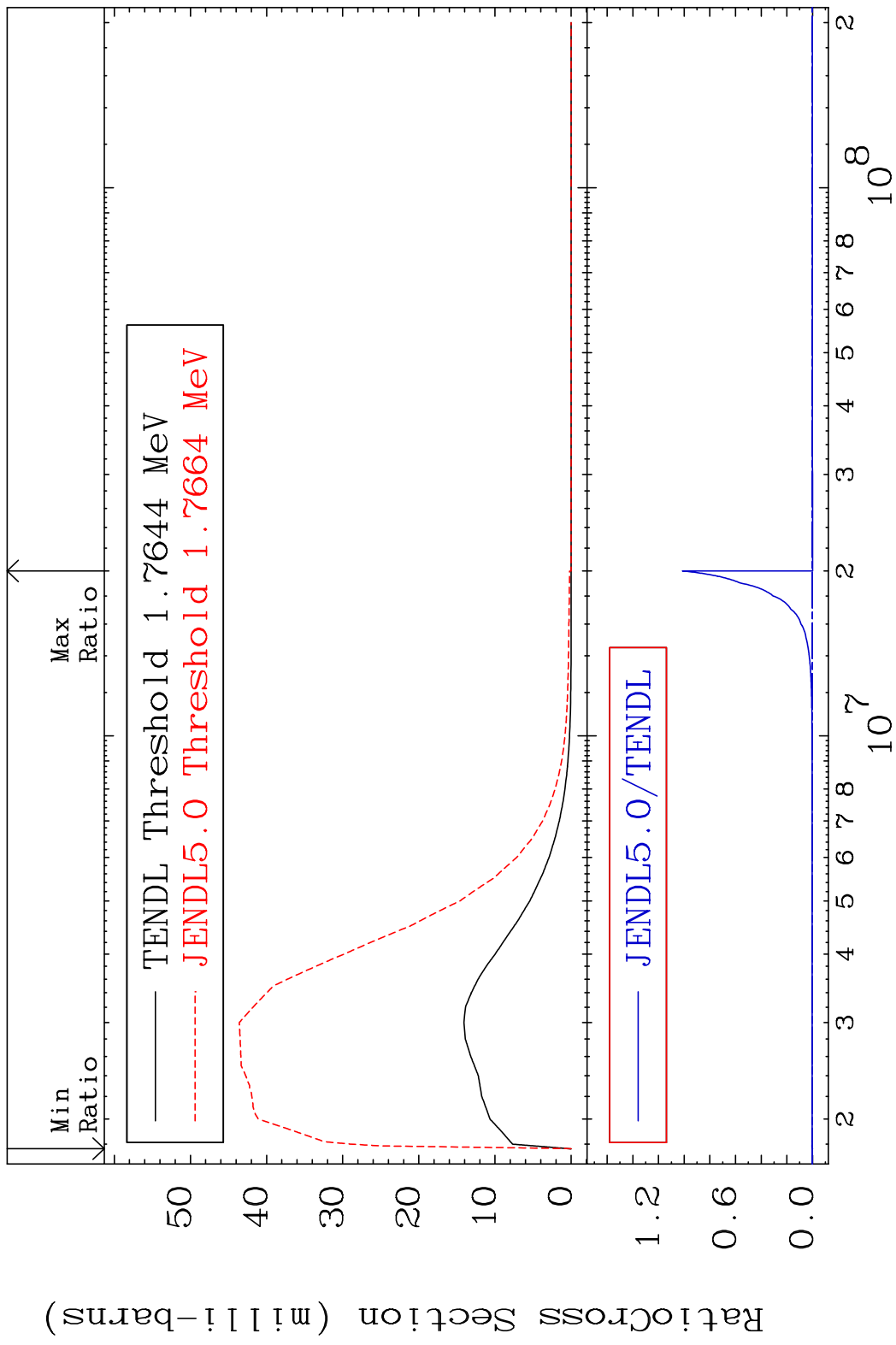
MAT 2319 MT= 68 (n,n') Level 23-V -48
 Cross Section -100.0 To 898.3 %



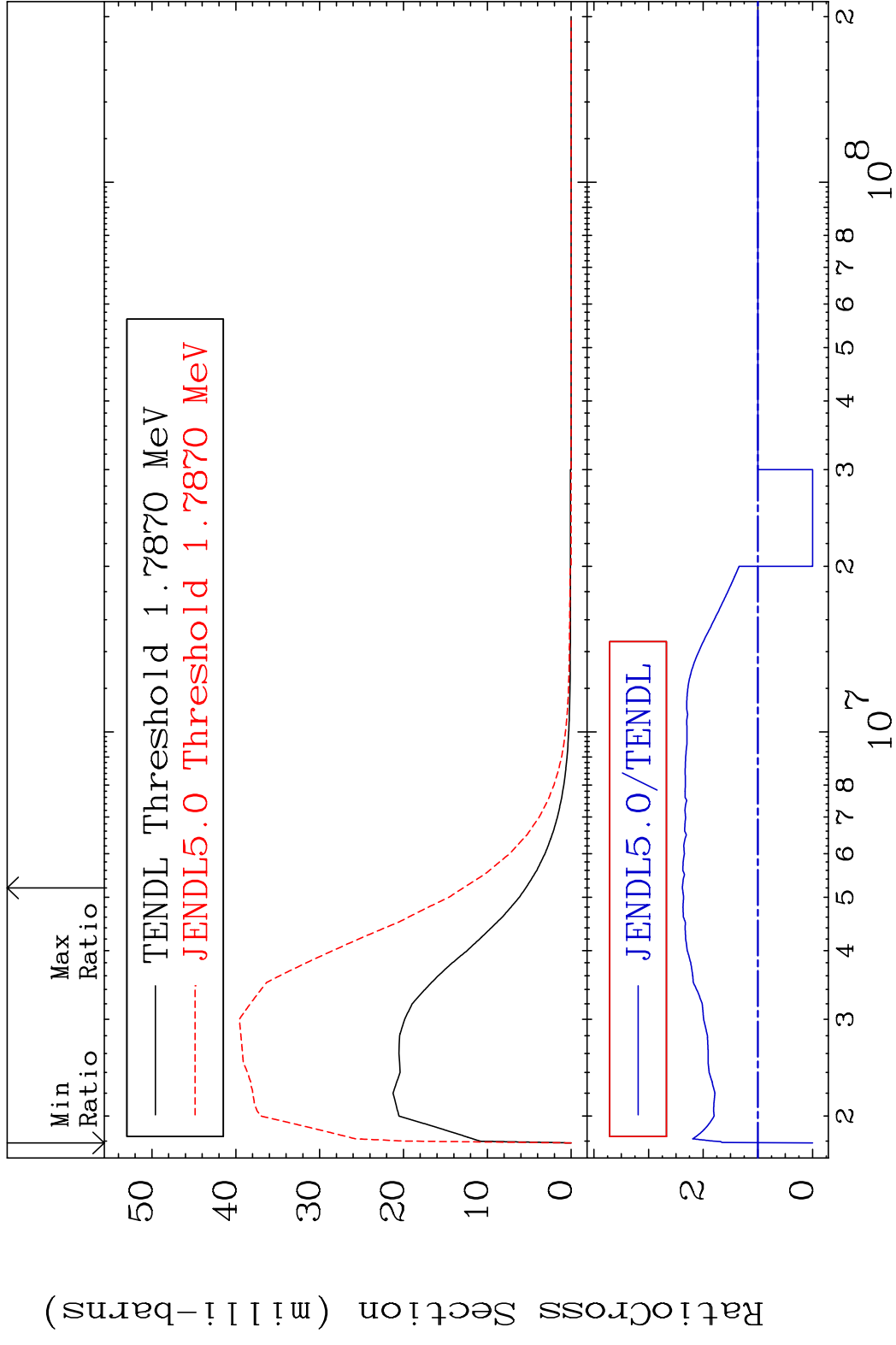
MAT 2319 MT= 69 (n, n') Level 23-V -48
 Cross Section -100.0 To 161.4 %



MAT 2319 MT= 70 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %

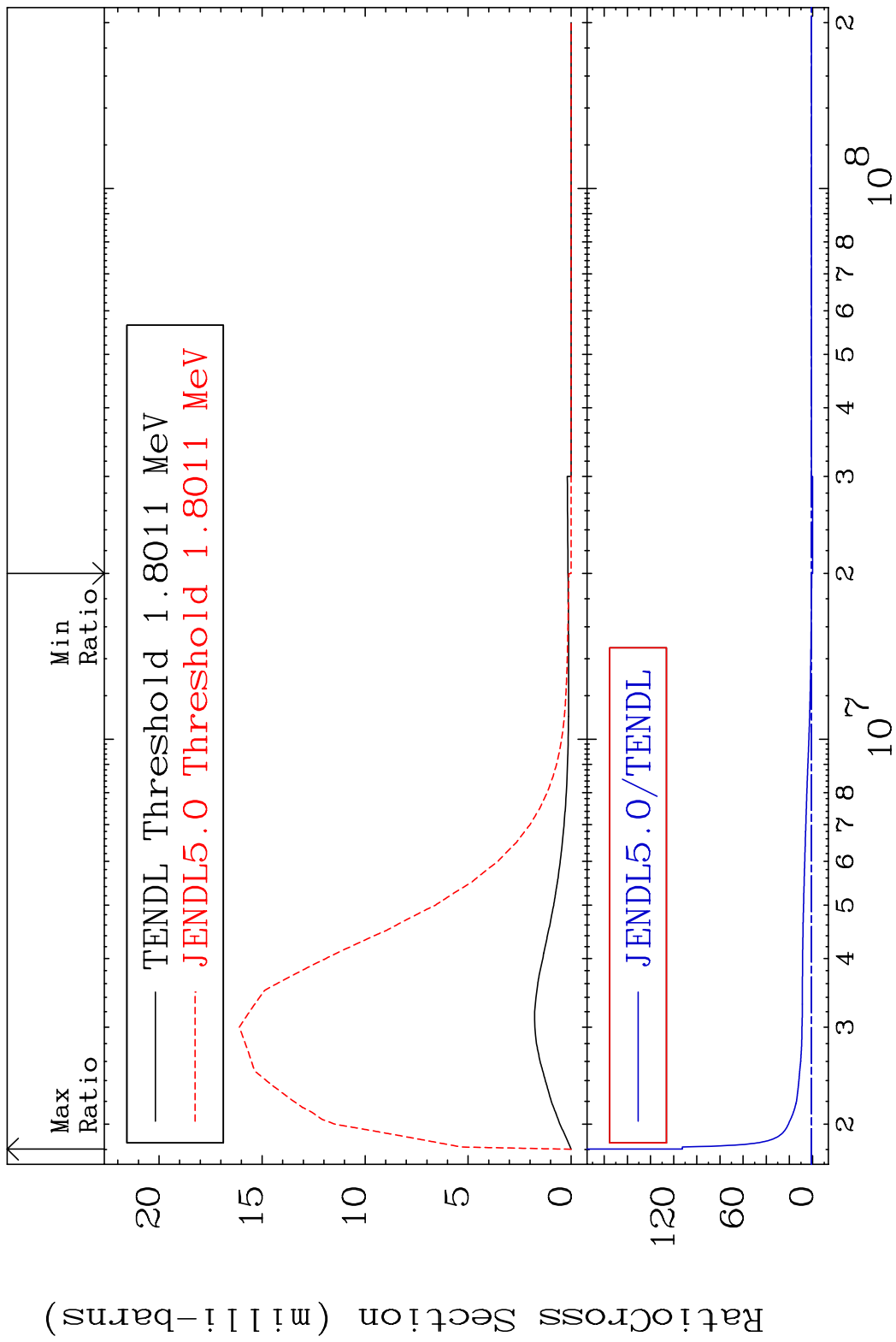


MAT 2319 MT= 71 (n,n') Level 23-V -48
 Cross Section -100.0 To 138.2 %

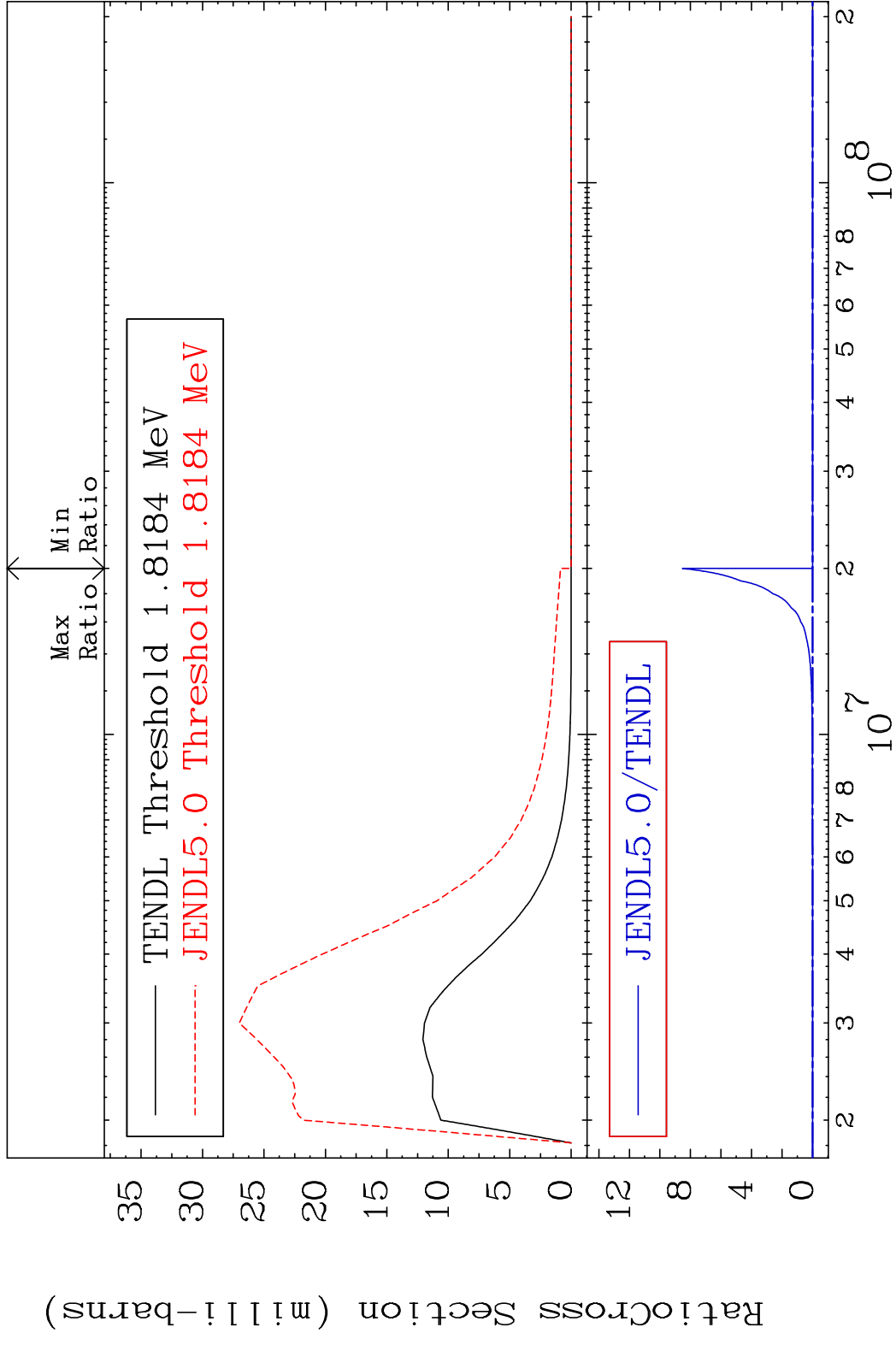


30 Incident Energy (eV) 23-V -48

MAT 2319 MT= 72 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %

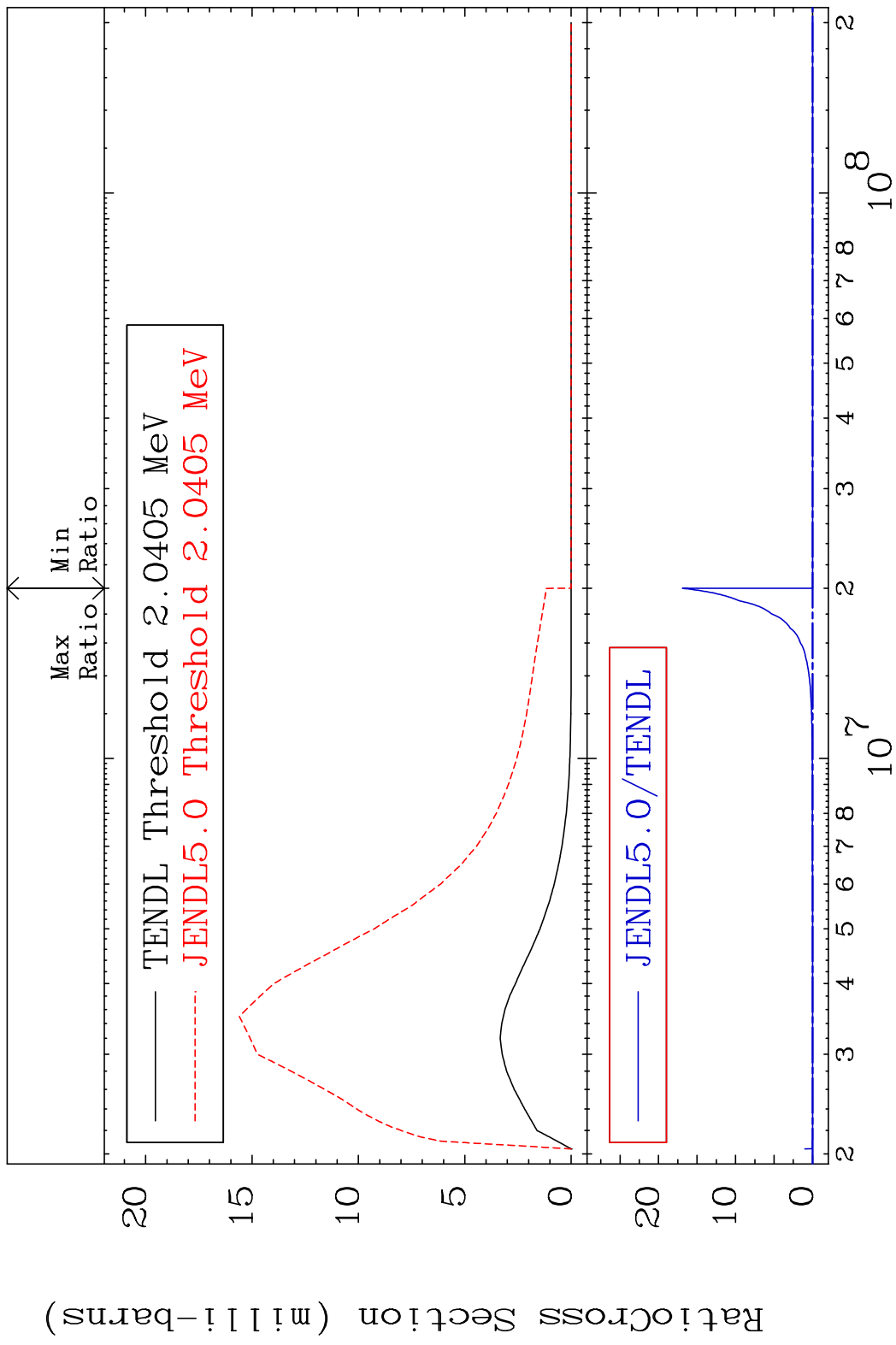


MAT 2319 MT= 73 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %



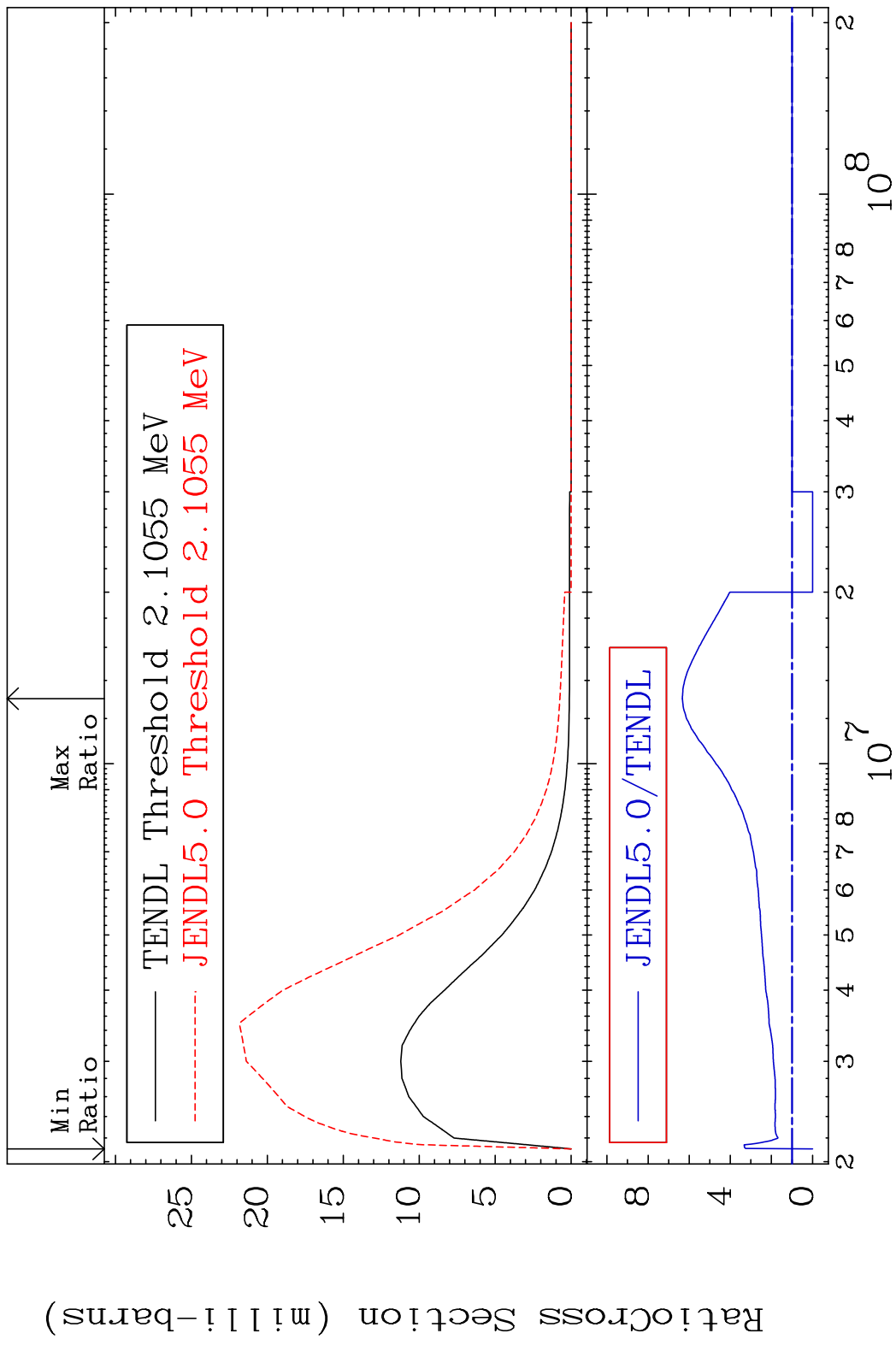
32 Incident Energy (eV) 23-V -48

MAT 2319 MT= 74 (n, n') Level 23-V -48
 Cross Section -100.0 To 9999. %



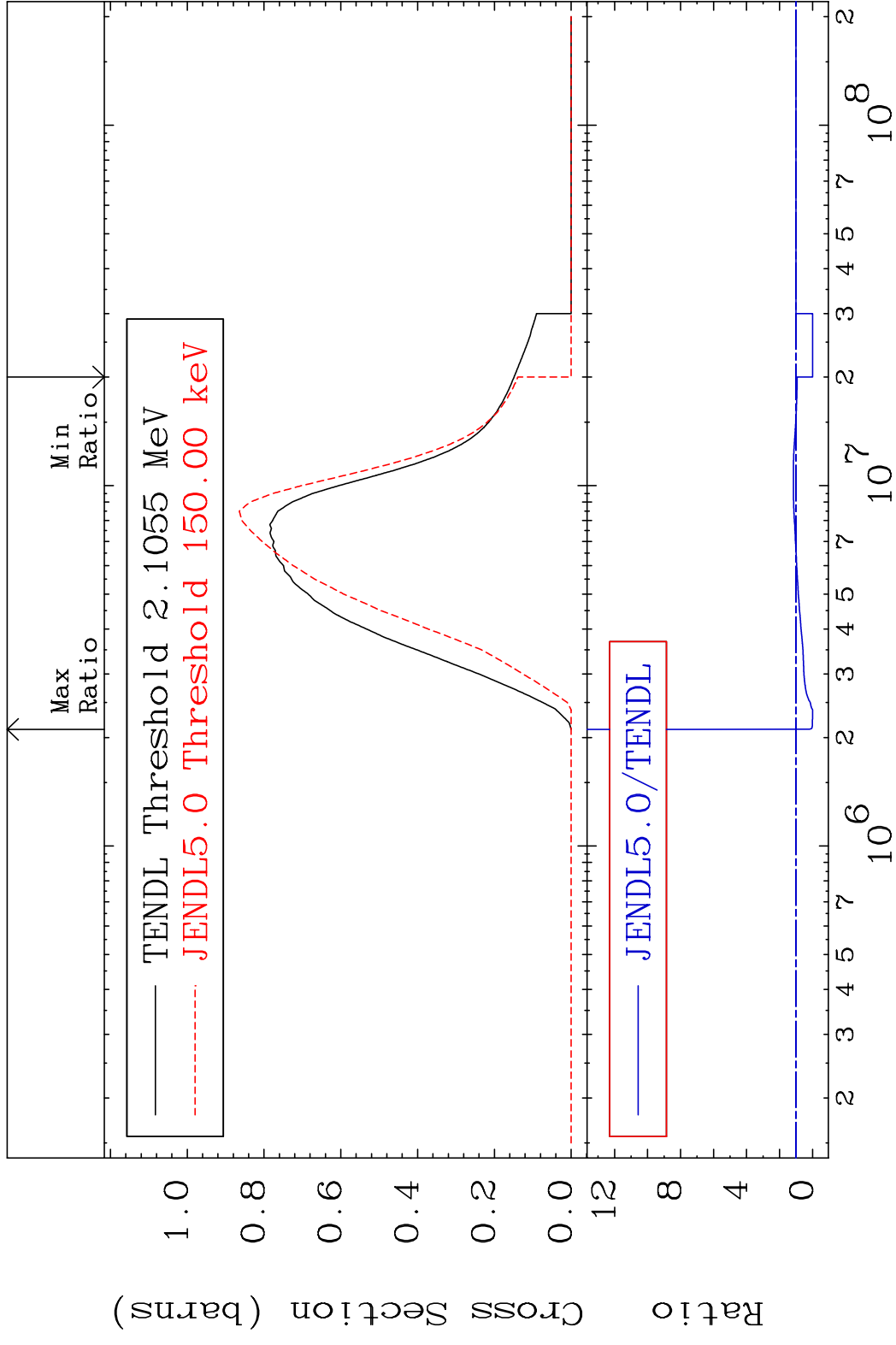
33 Incident Energy (eV) 23-V -48

MAT 2319 MT= 75 (n,n') Level 23-V -48
 Cross Section -100.0 To 533.3 %



34 Incident Energy (eV) 23-V -48

MAT 2319 (n, n') Continuum 23-V -48
 Cross Section -100.0 To 689.3 %

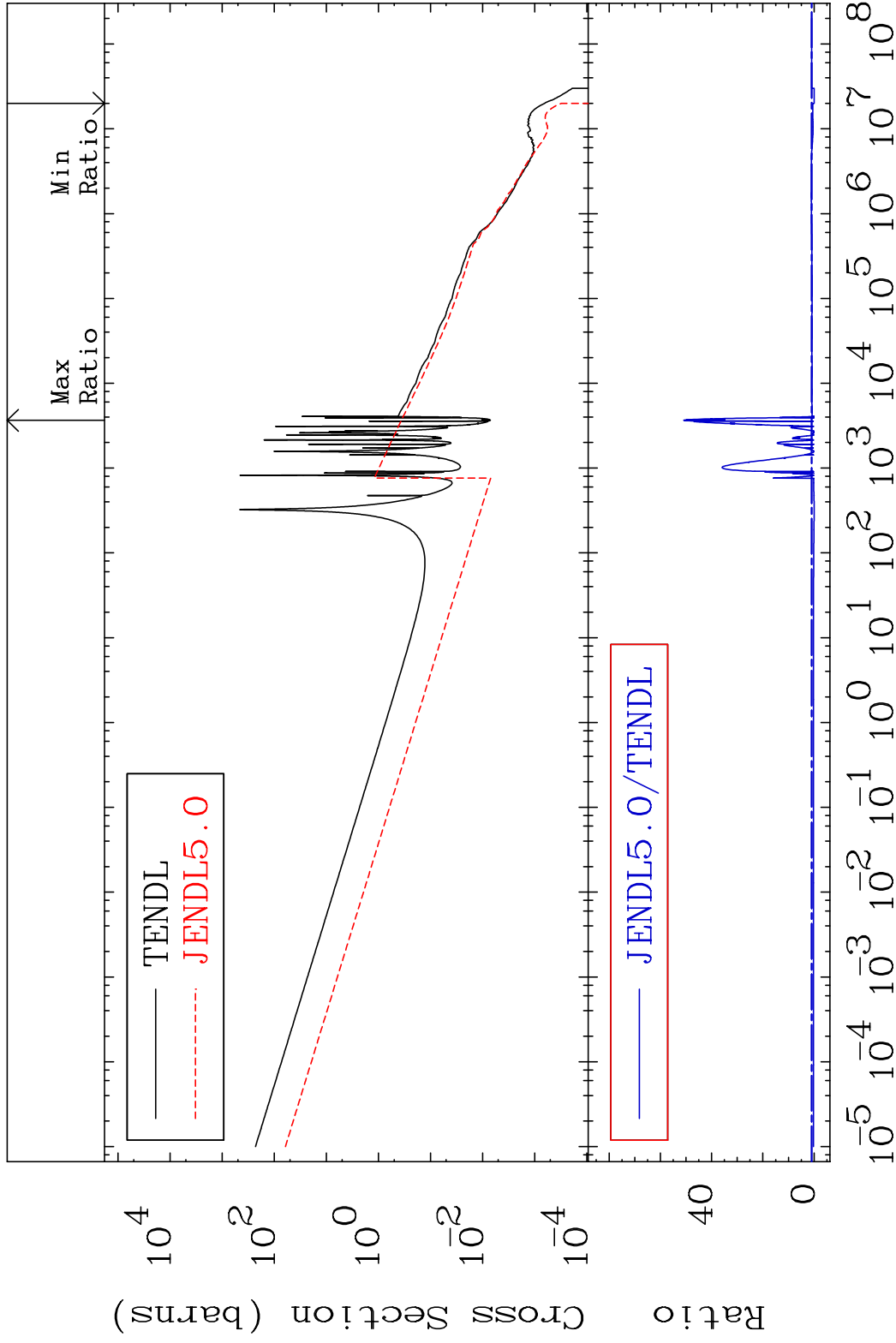


MAT 2319

(n, γ)

23-V -48

Cross Section -100.0 To 4991. %



36

Incident Energy (eV)

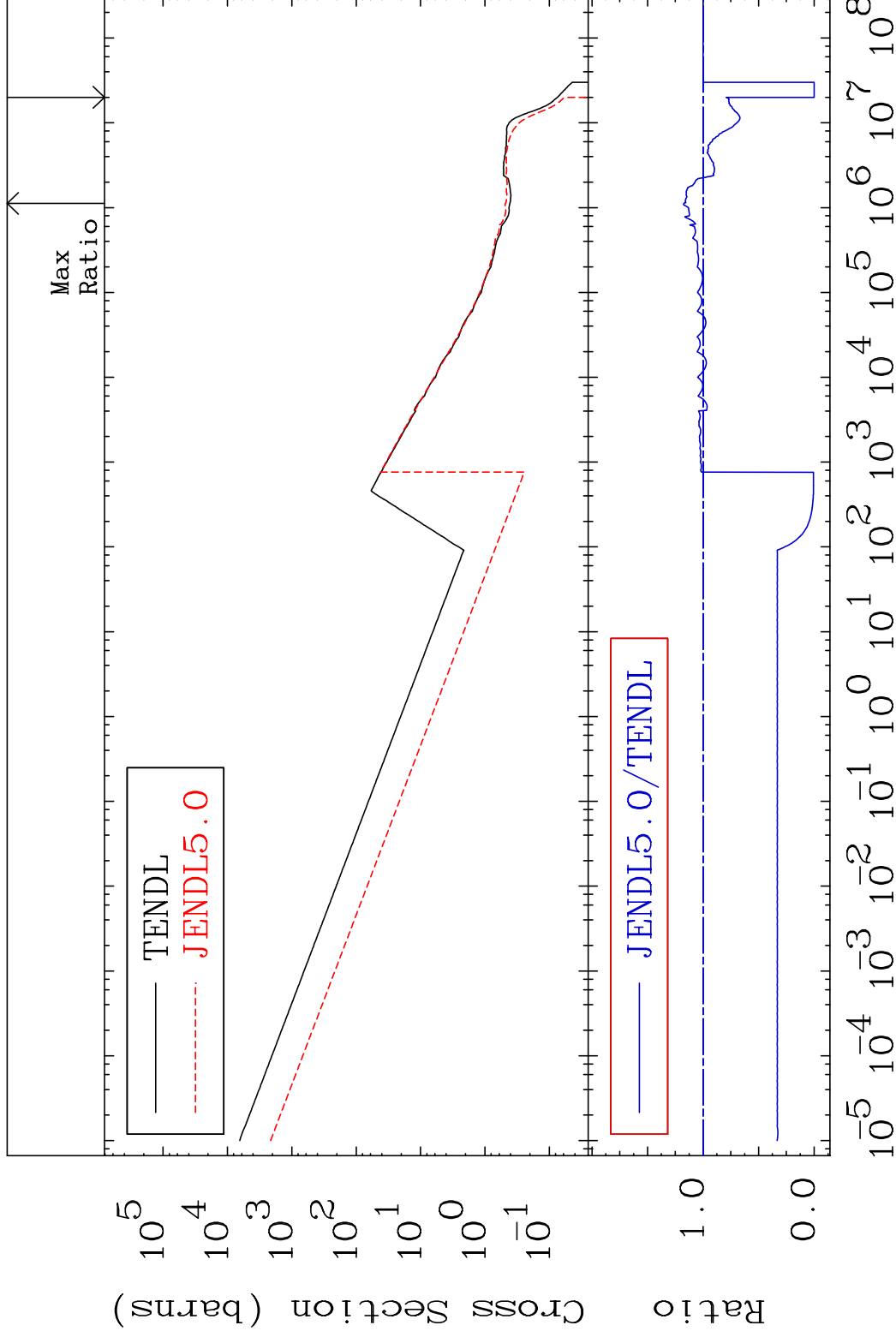
23-V -48

MAT 2319

(n, p)

23-V -48

Cross Section -100.0 To 17.46 %

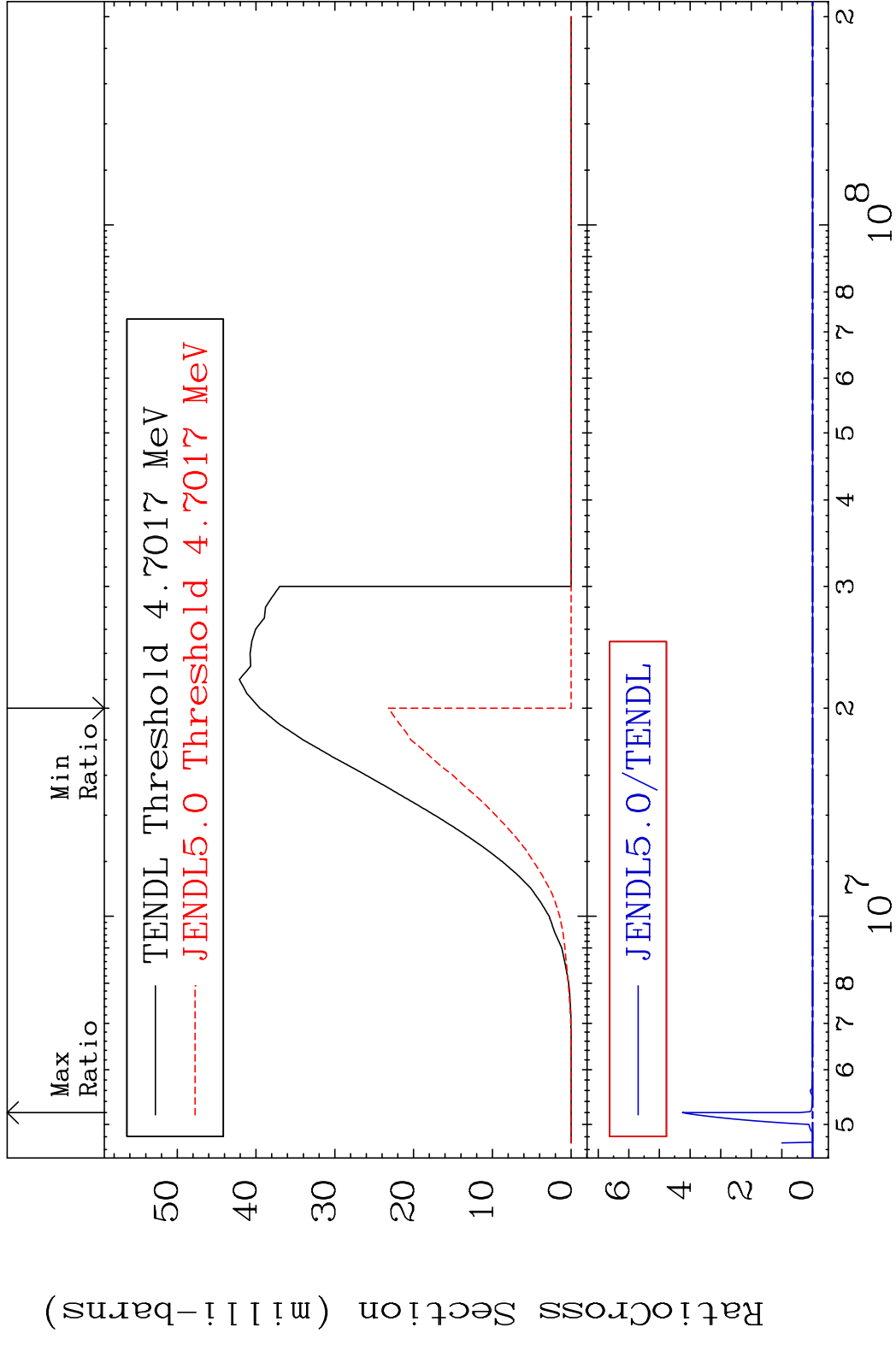


37

Incident Energy (eV)

23-V -48

MAT 2319 (n,d) 23-V -48
 Cross Section -100.0 To 9999. %

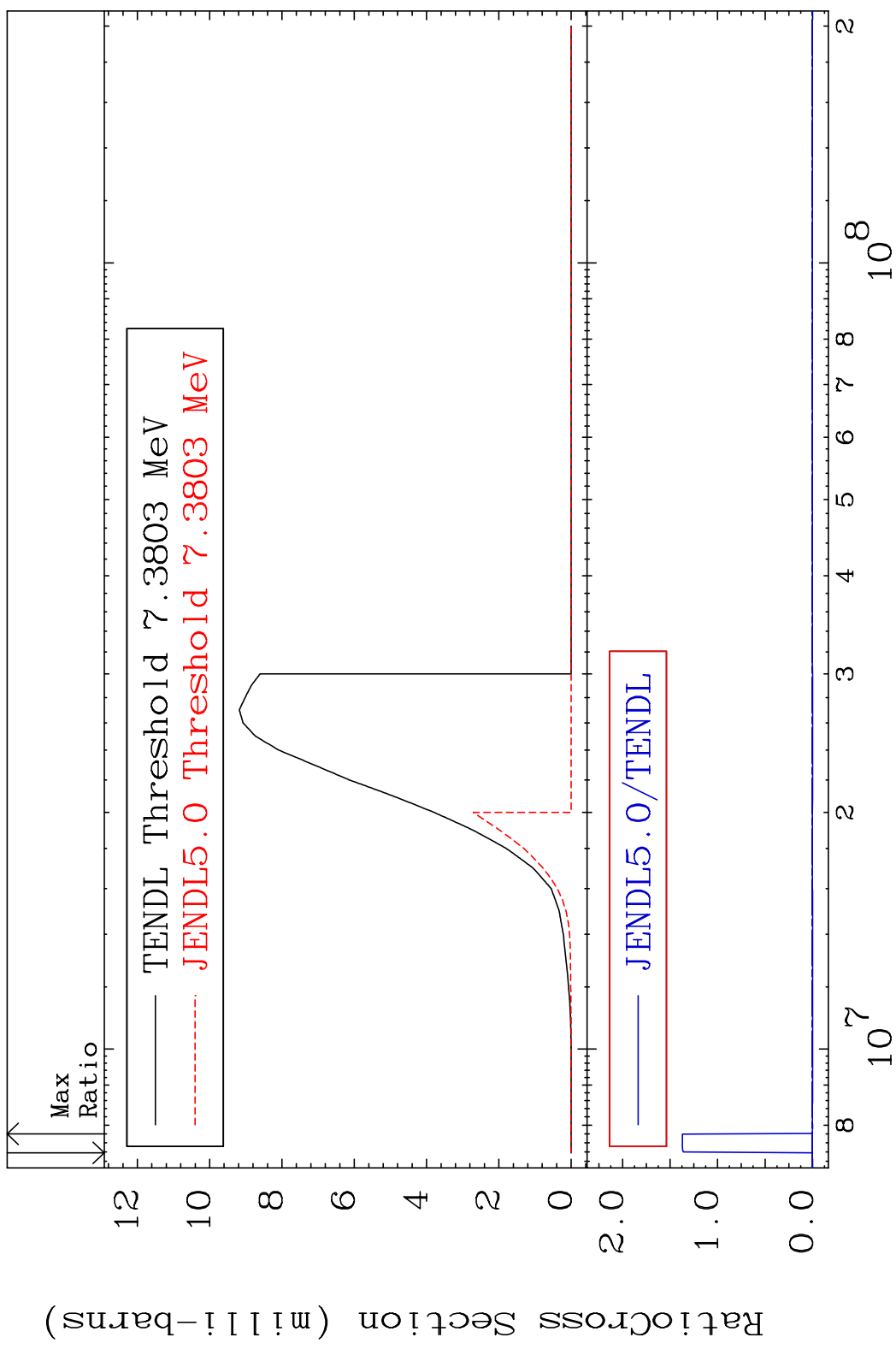


MAT 2319

(n, t)

23-V -48

Cross Section -100.0 To 9999. %



39

Incident Energy (eV)

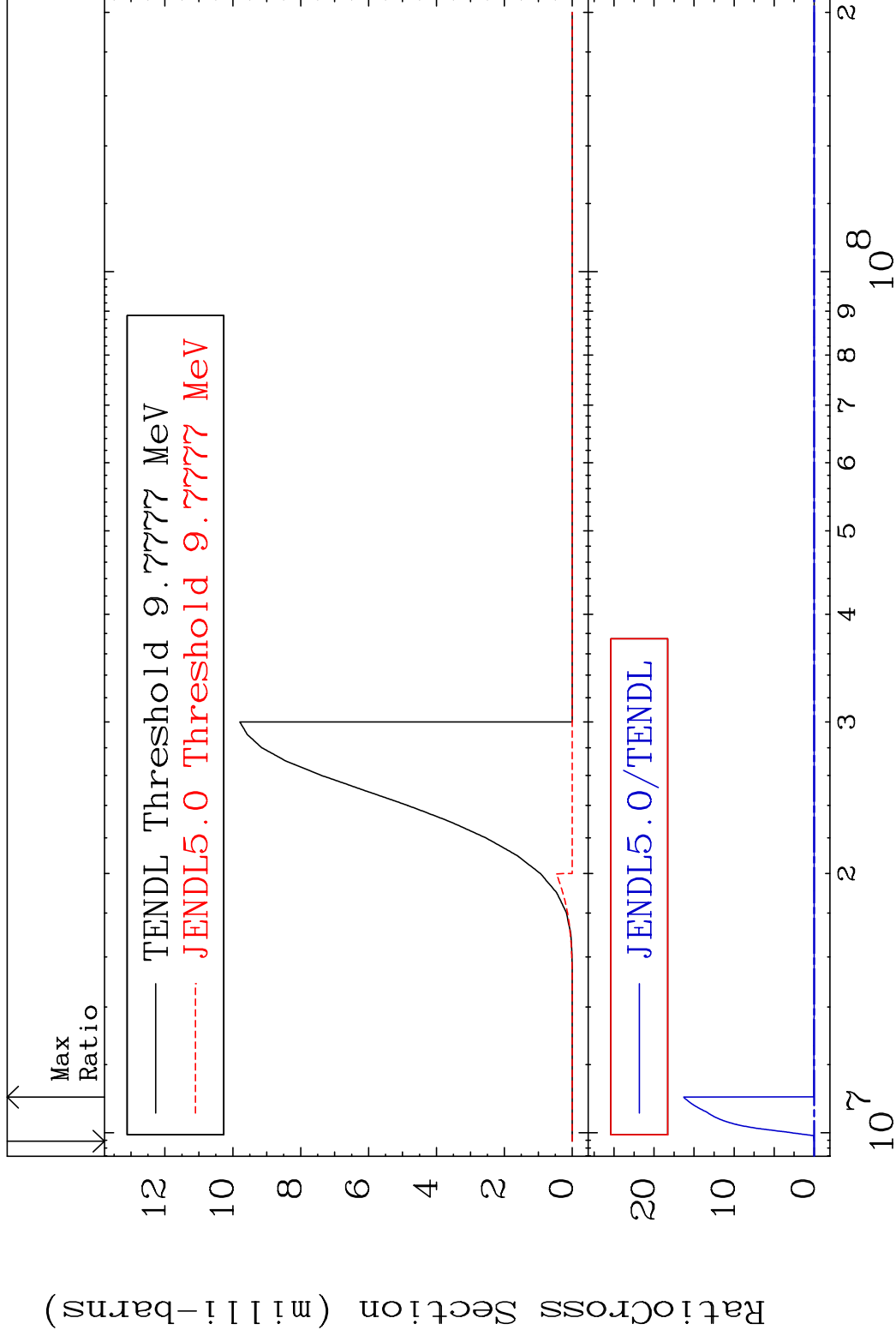
23-V -48

MAT 2319

(n, He-3)

23-V -48

Cross Section -100.0 To 9999. %



40

Incident Energy (eV)

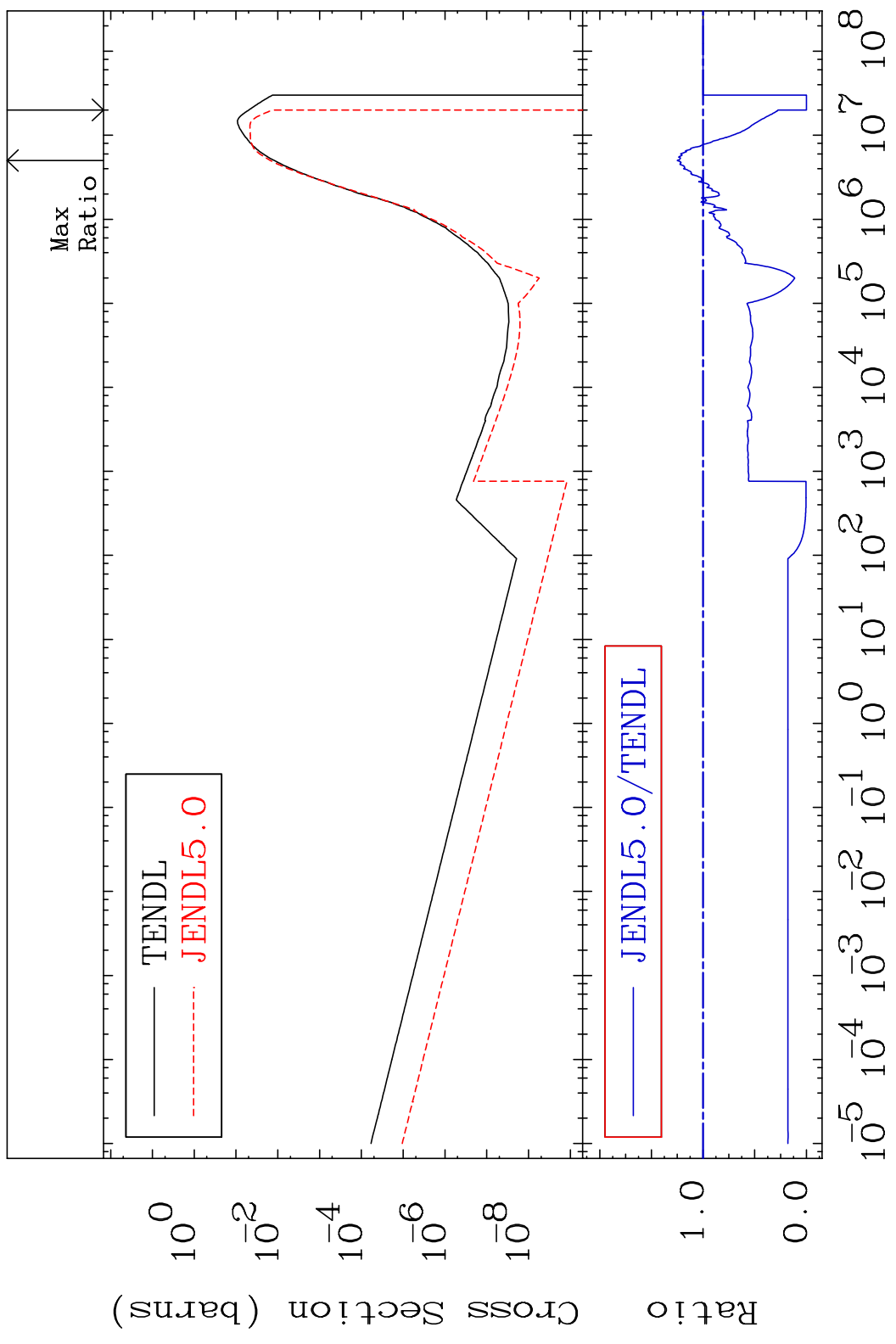
23-V -48

MAT 2319

(n, α)

23-V -48

Cross Section -100.0 To 25.03 %



41

Incident Energy (eV)

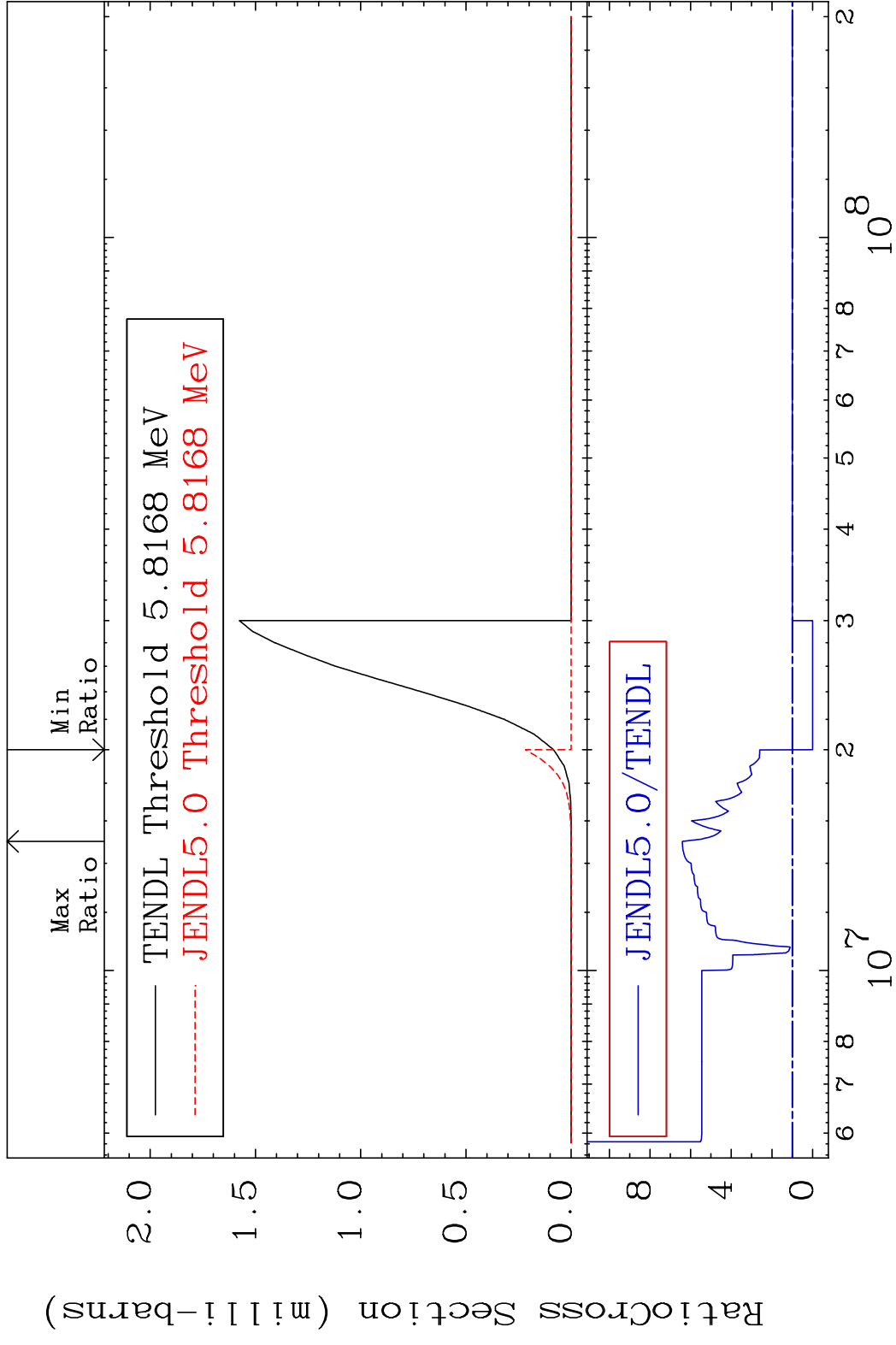
23-V -48

MAT 2319

(n,2α)

23-V -48

Cross Section -100.0 To 540.7 %

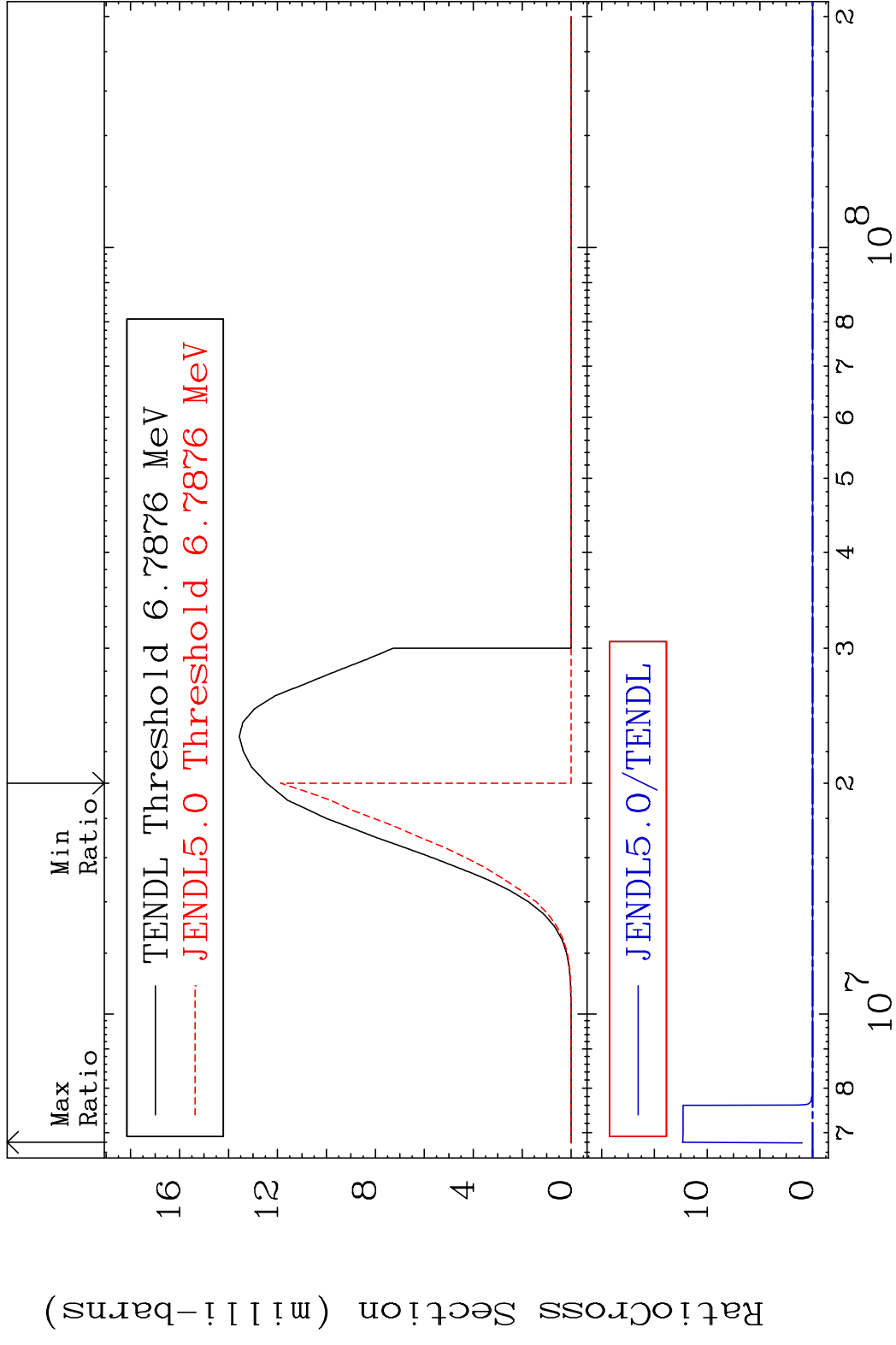


42

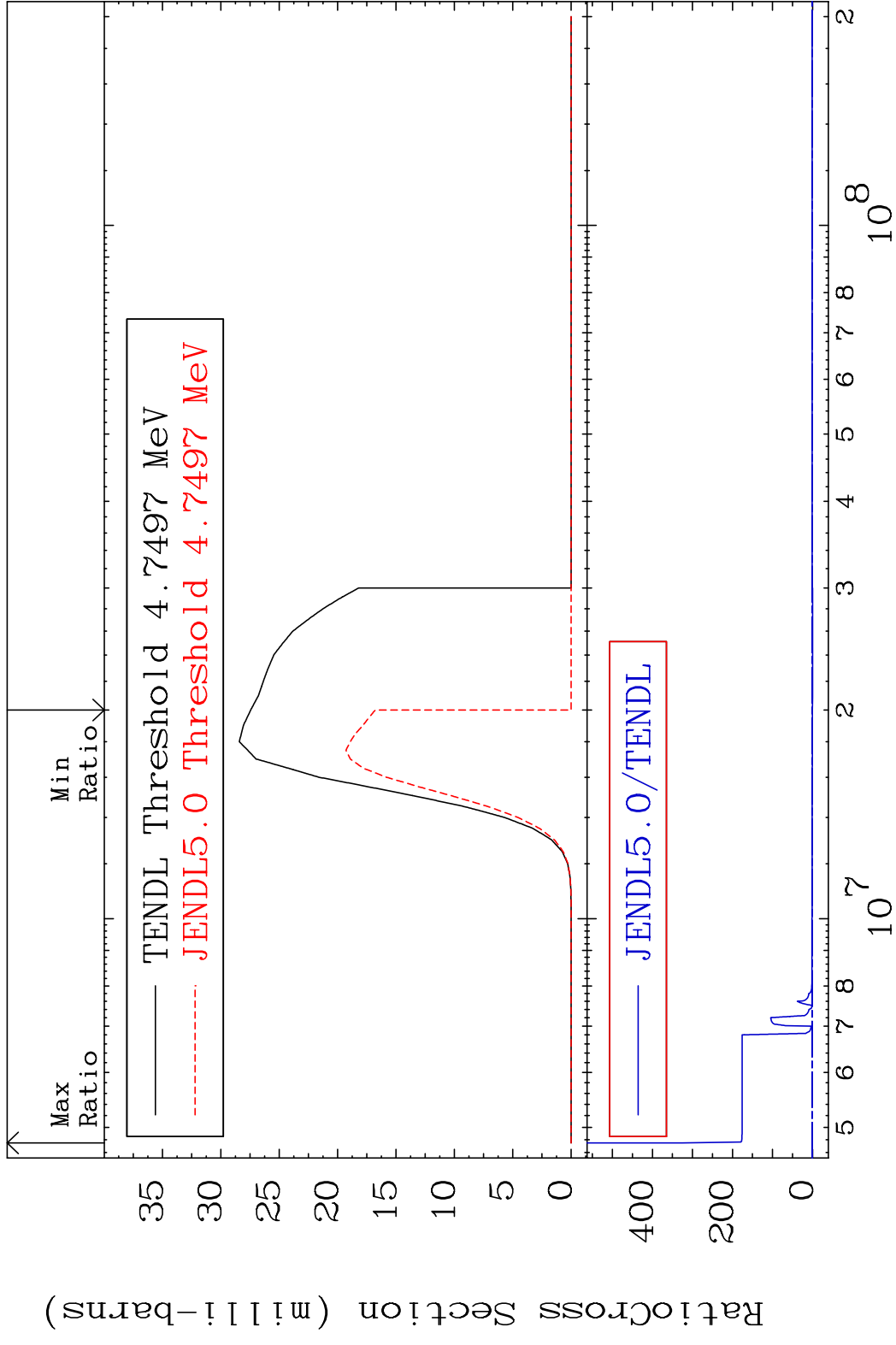
Incident Energy (eV)

23-V -48

MAT 2319 (n,2p) 23-V -48
 Cross Section -100.0 To 9999. %



MAT 2319 (n,p) α 23-V -48
 Cross Section -100.0 To 9999. %



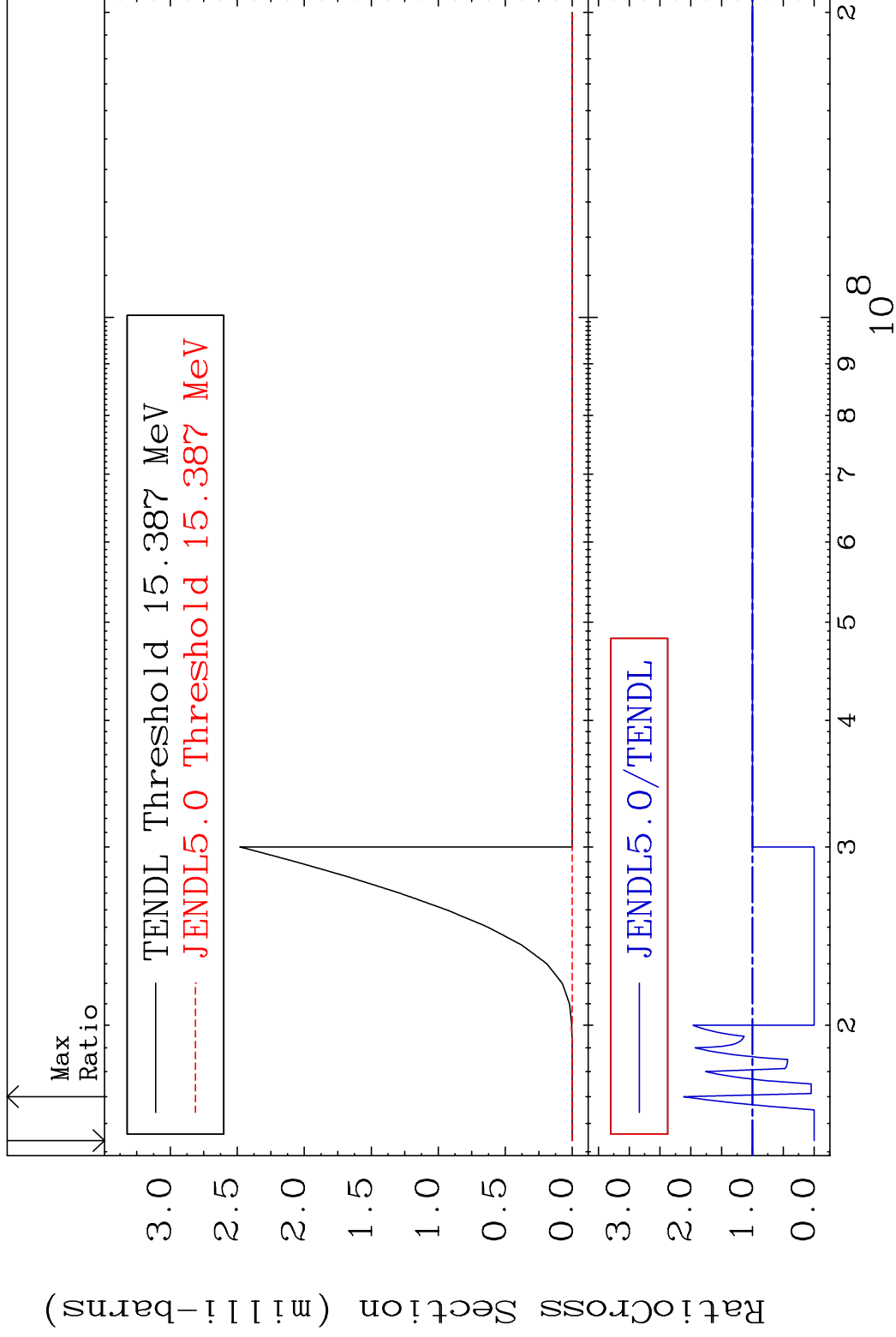
44 23-V -48

MAT 2319

(n,p) d

23-V -48

Cross Section -100.0 To 111.7 %

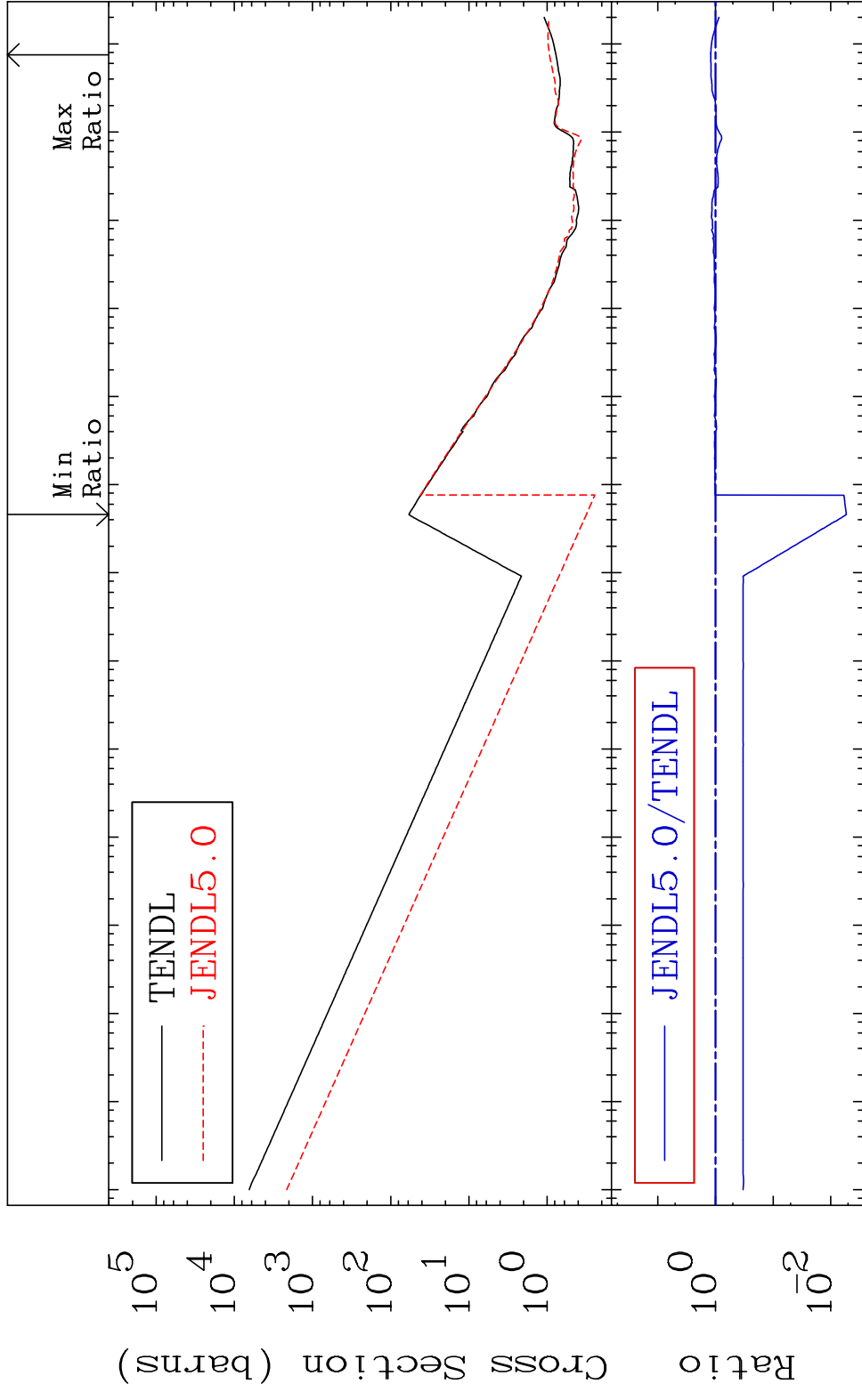


45

Incident Energy (eV)

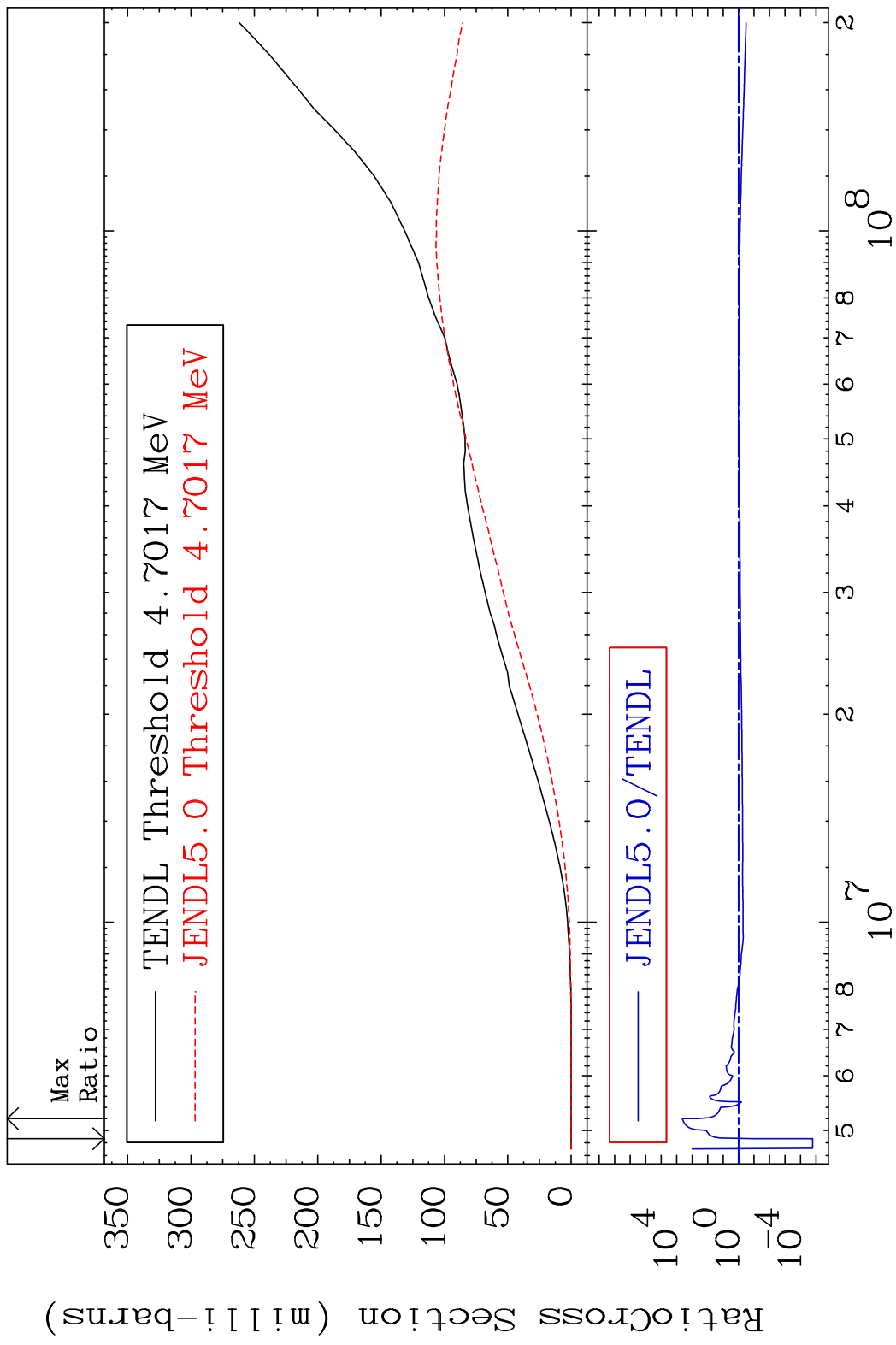
23-V -48

MAT 2319 Hydrogen Production 23-V -48
 Cross Section -99.46 To 20.89 %



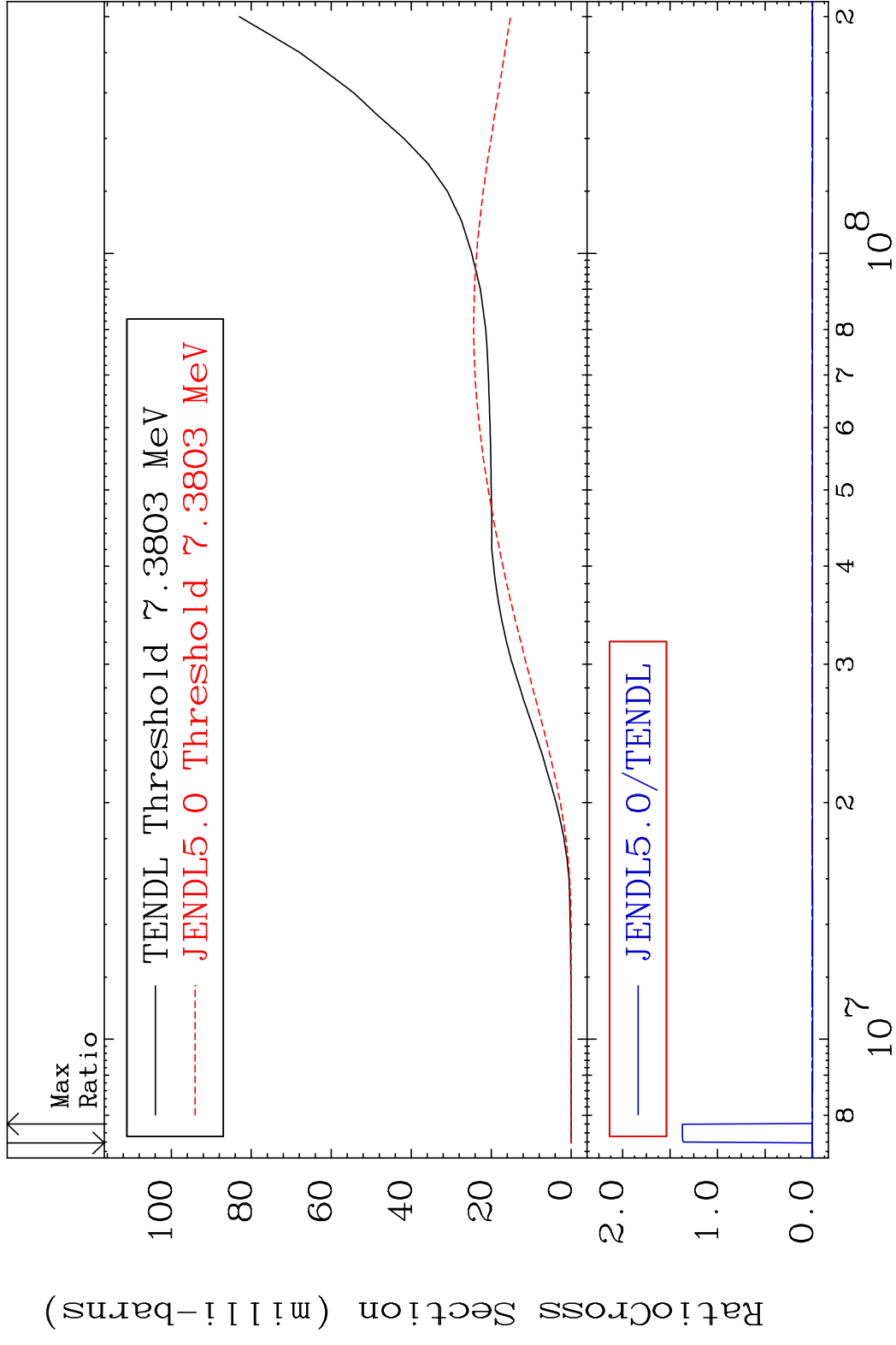
46 Incident Energy (eV) 23-V -48

MAT 2319 Deuterium Production 23-V -48
 Cross Section -100.0 To 9999. %



47 23-V -48

MAT 2319 Tritium Production 23-V -48
 Cross Section -100.0 To 9999. %



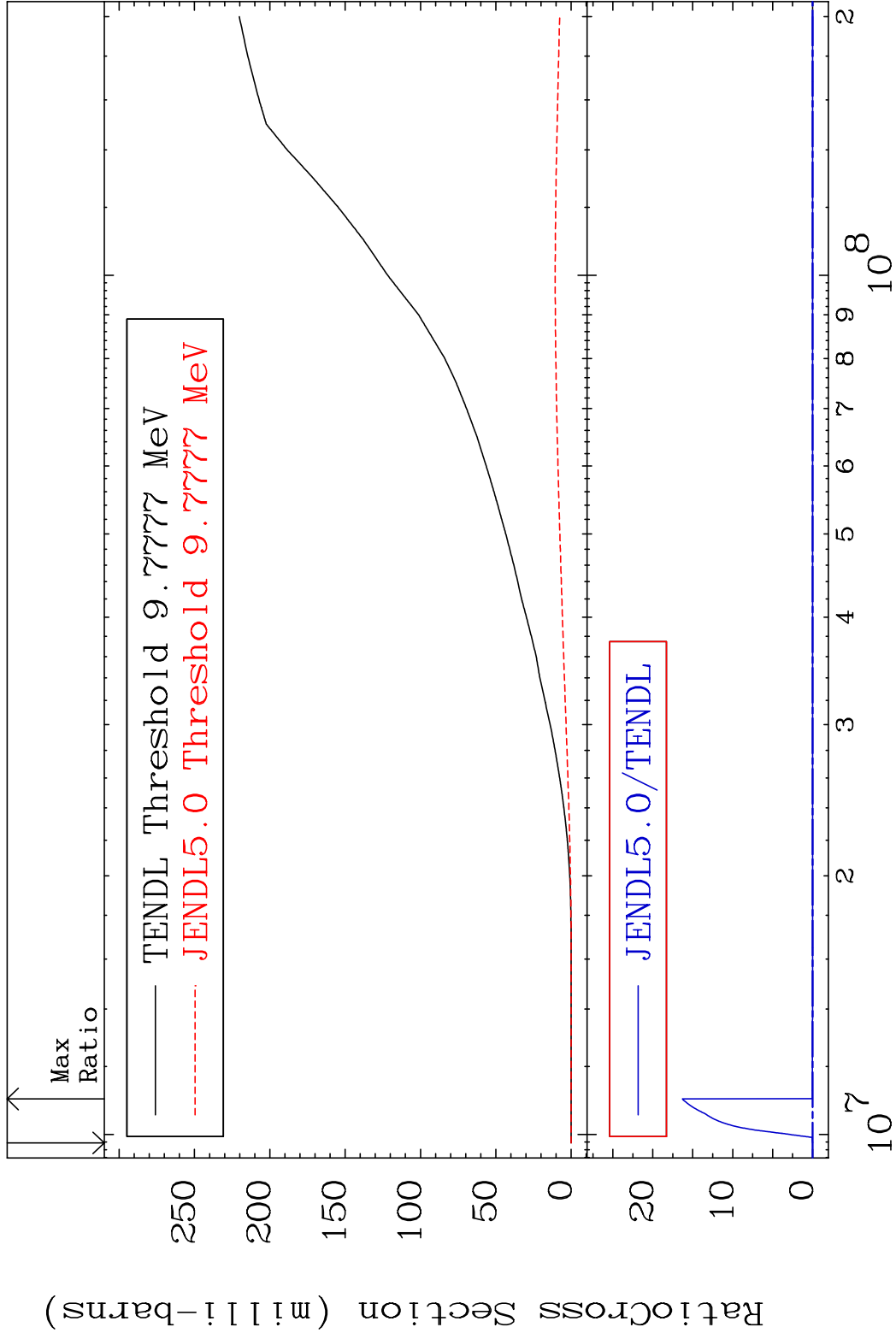
48 Incident Energy (eV) 23-V -48

MAT 2319

He-3 Production

23-V -48

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

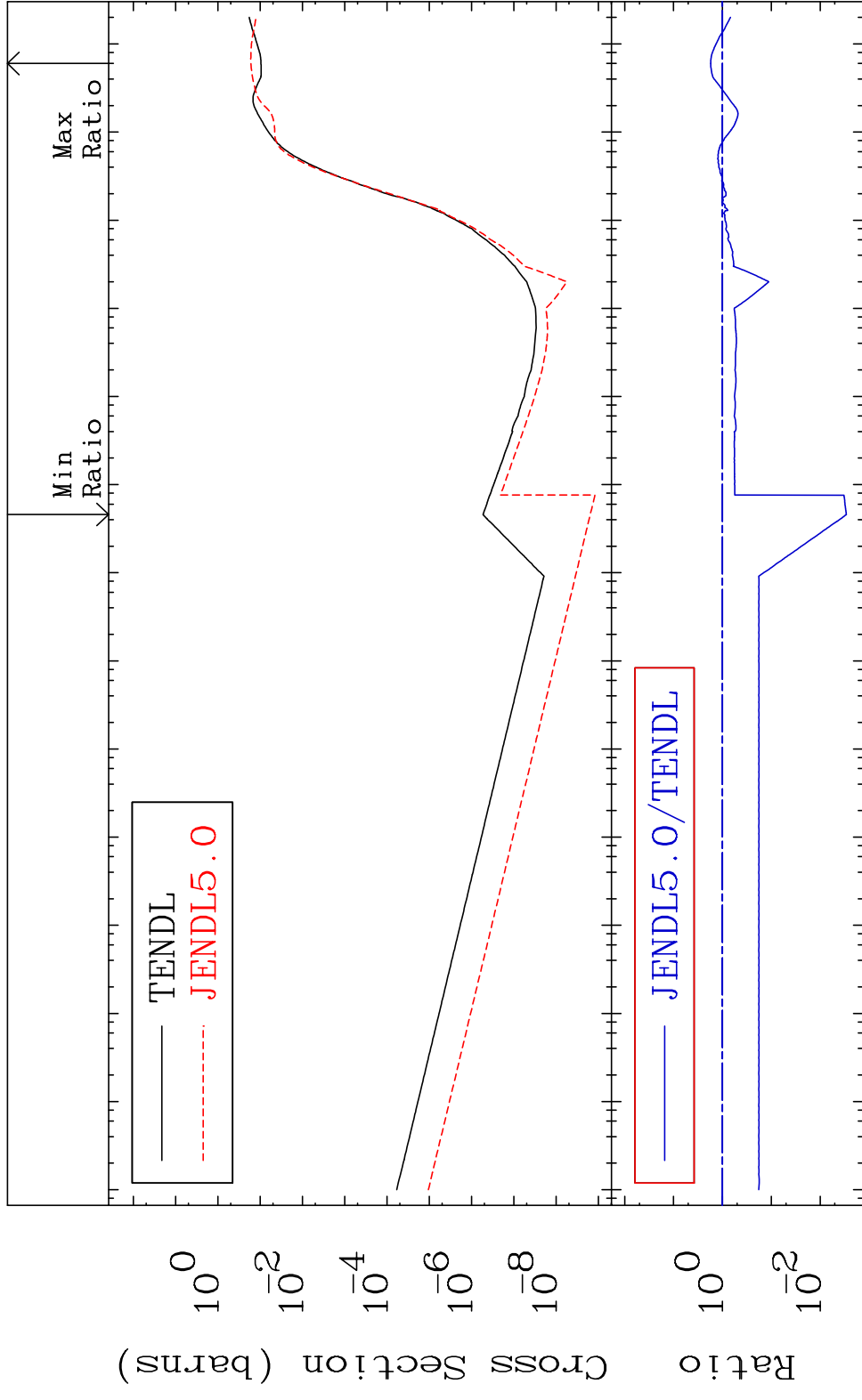
23-V -48

MAT 2319

He-4 Production

23-V -48

Cross Section -99.71 To 73.55 %

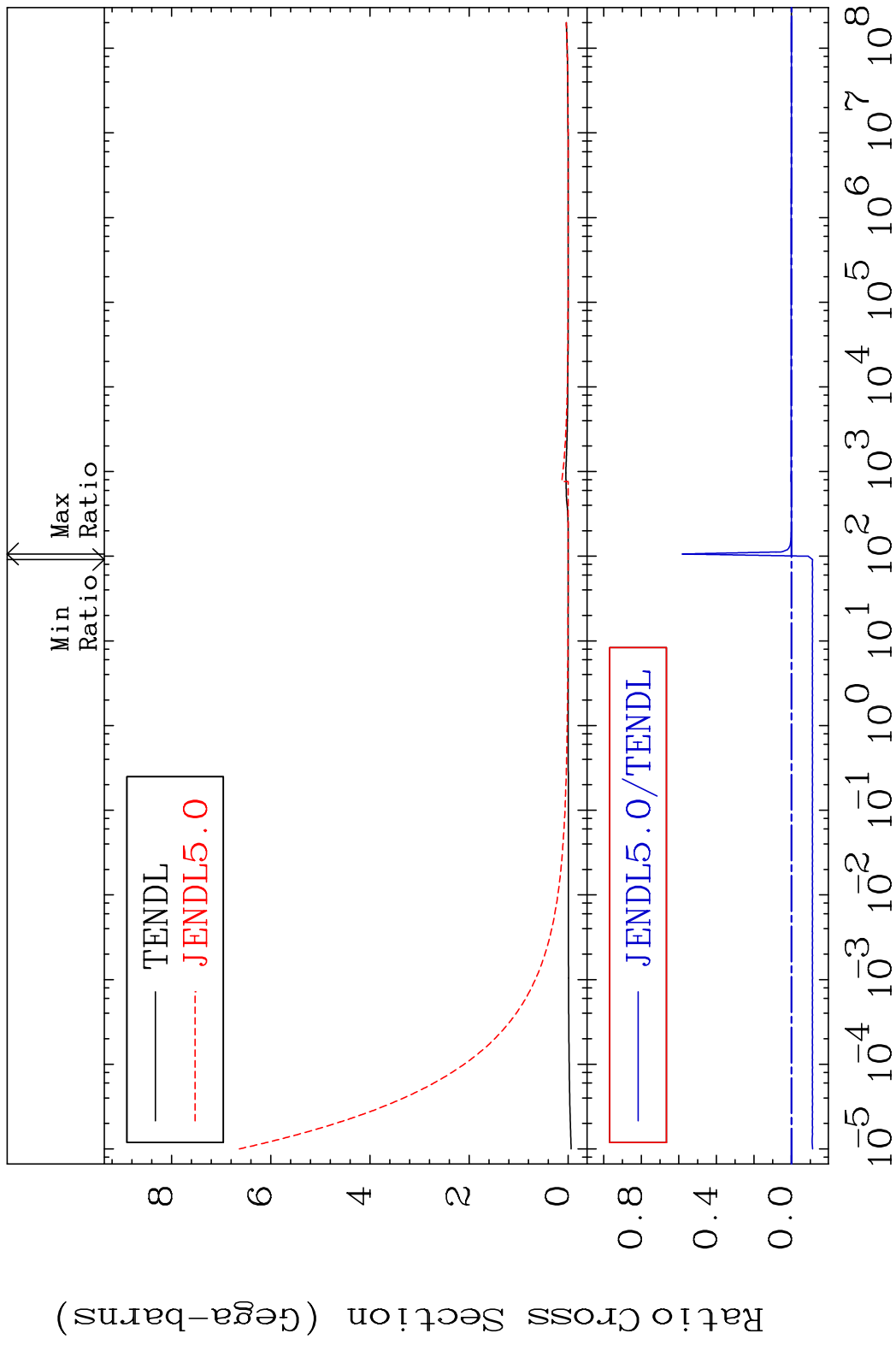


50

Incident Energy (eV)

23-V -48

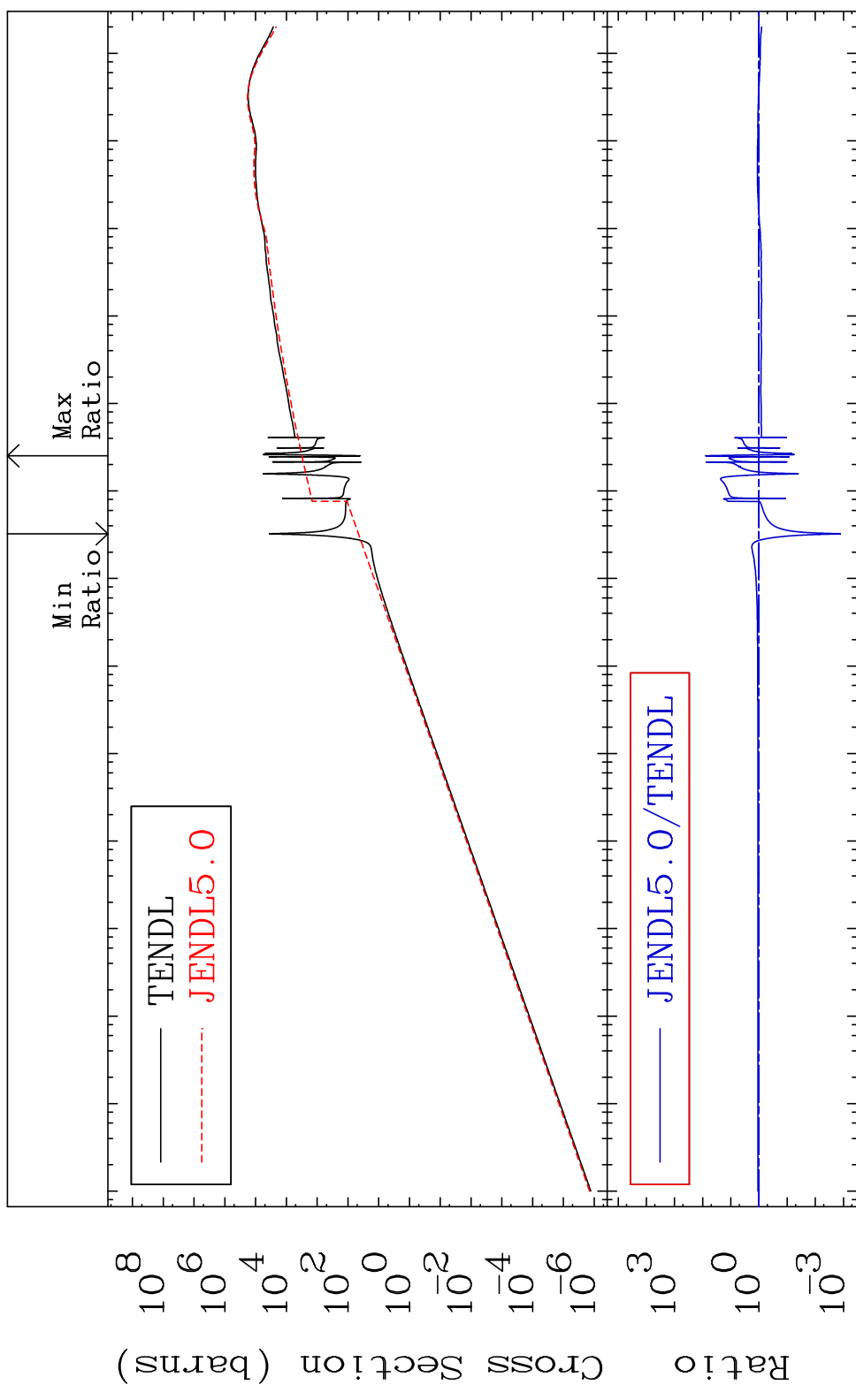
MAT 2319 Kerma total (eV-barns) 23-V -48
 Cross Section -9999. To 9999. %



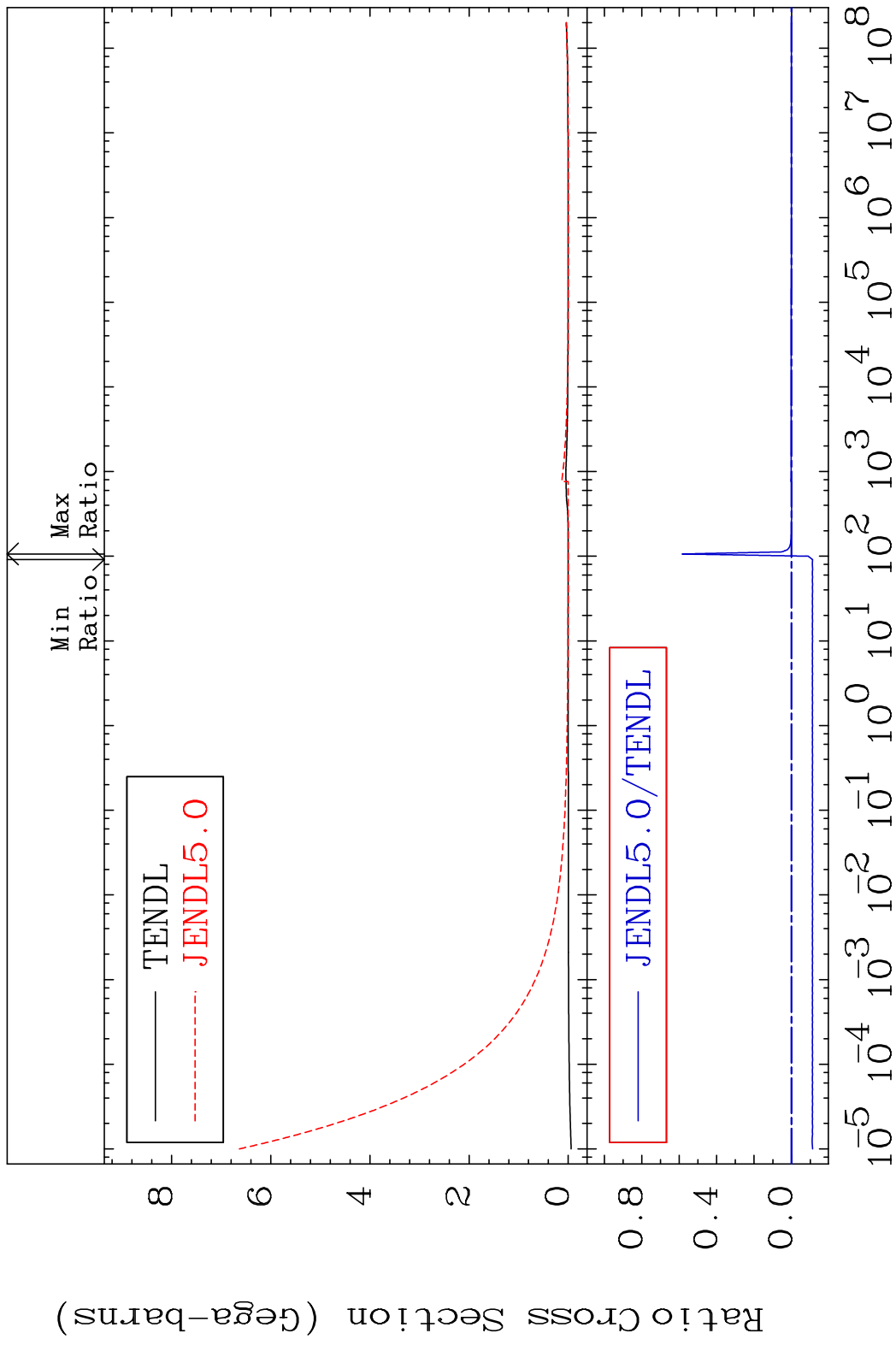
51 Incident Energy (eV) 23-V -48

MAT 2319

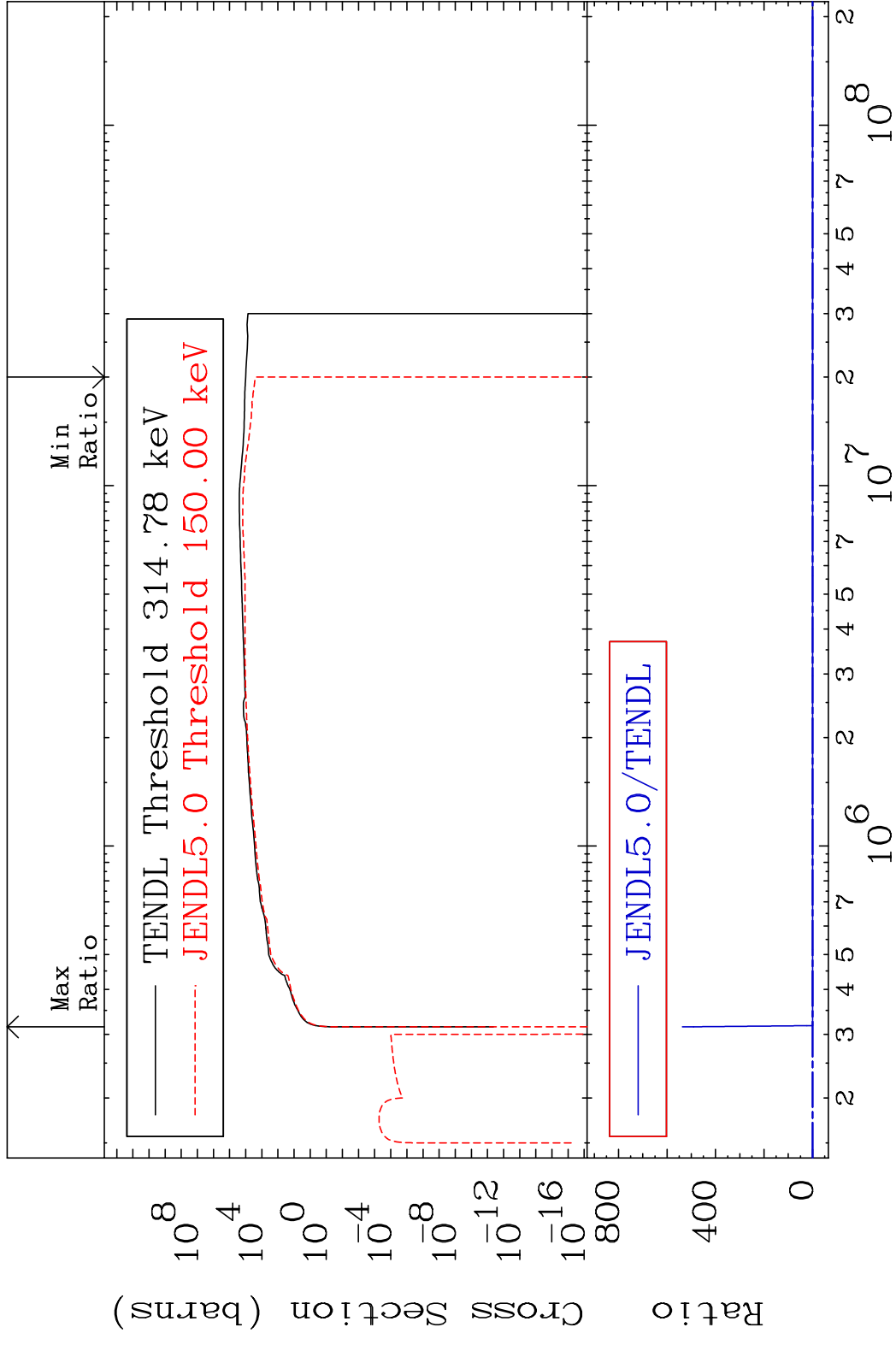
Kerma elastic Cross Section -99.87 To 7651. %
23-V -48



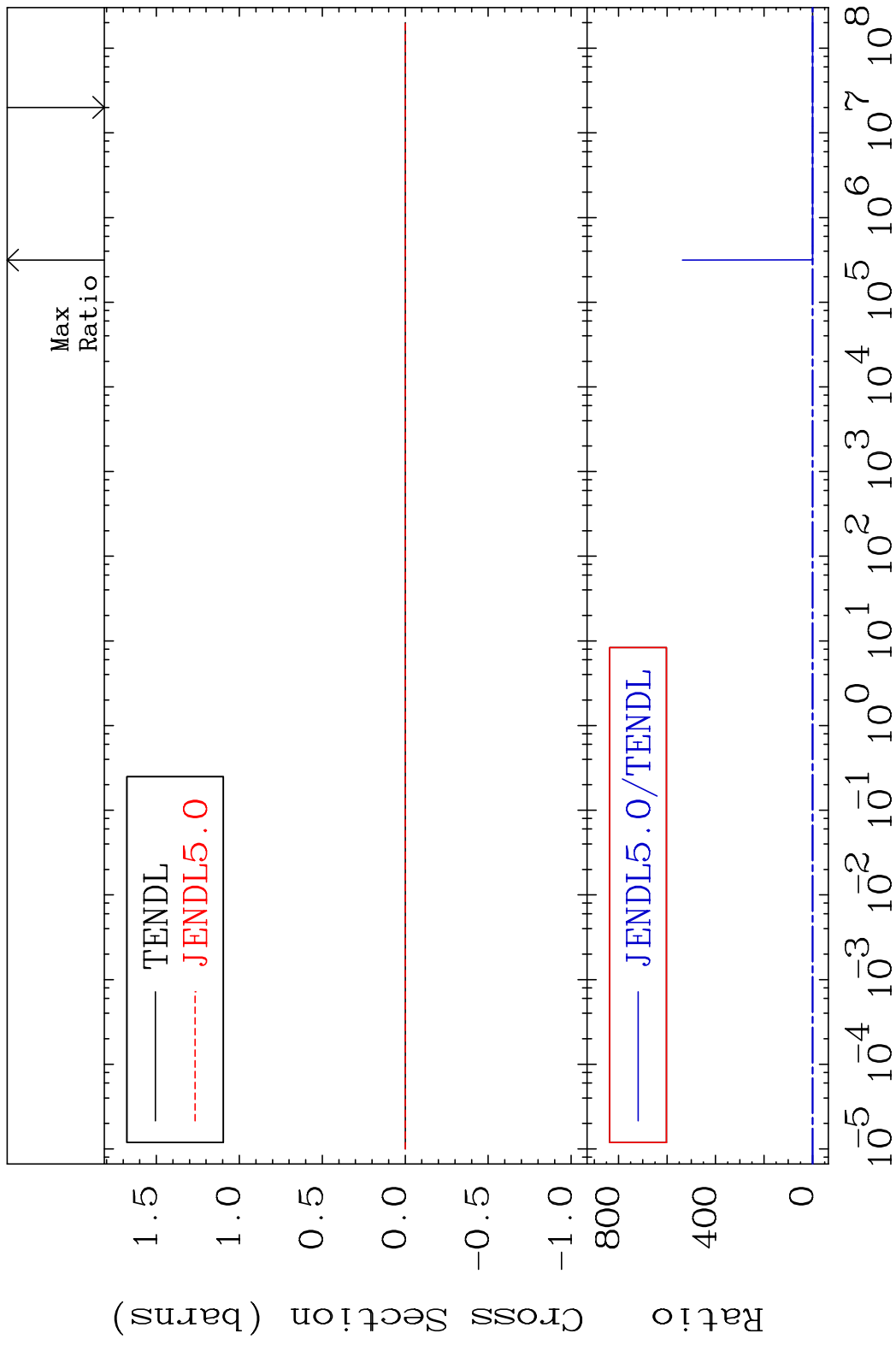
MAT 2319 Kerma non-elastic (all but mt2) 23-V -48
 Cross Section -9999. To 9999. %



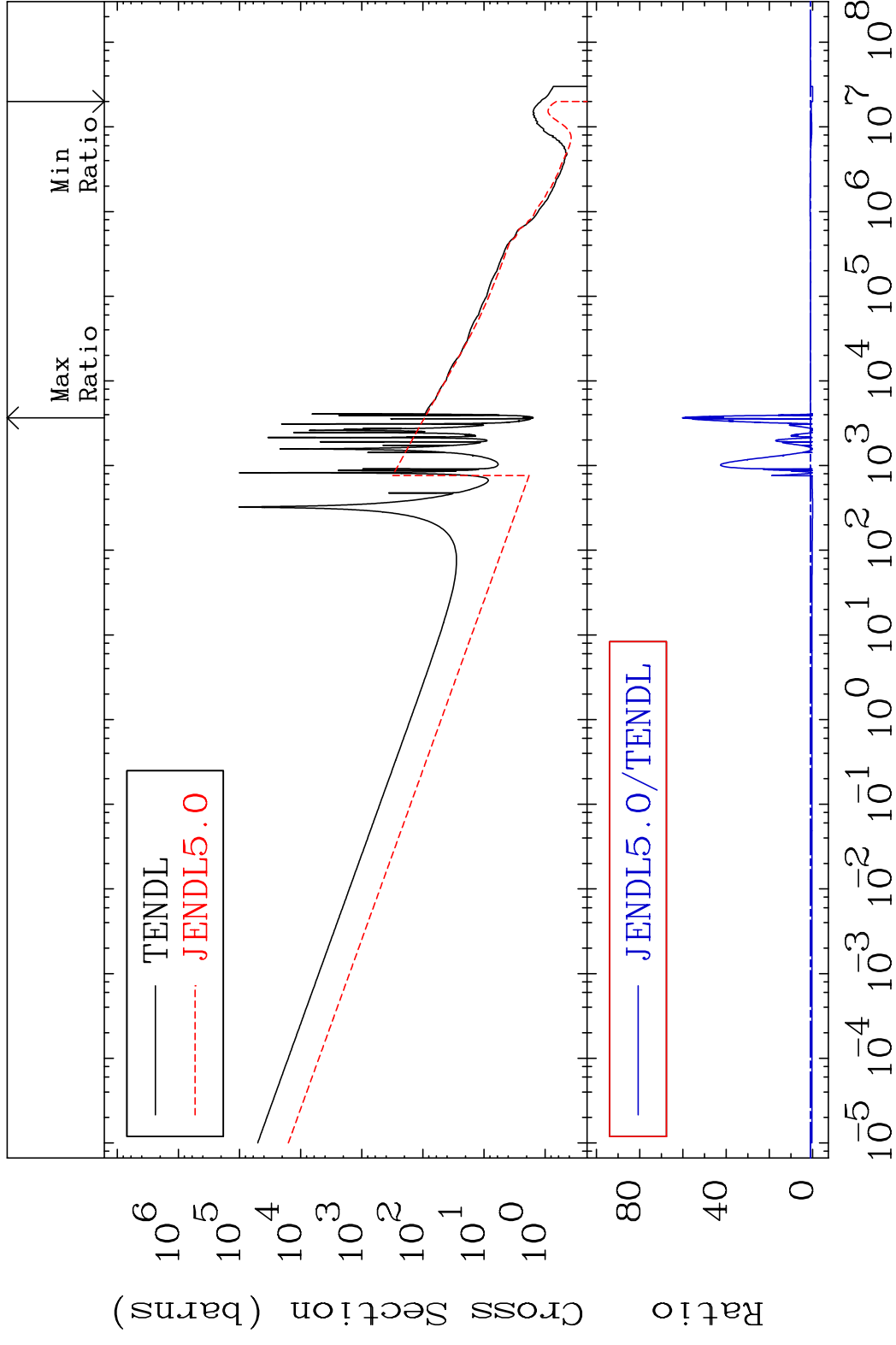
MAT 2319 Kerma inelastic (mt51-91) 23-V -48
 Cross Section -100.0 To 9999. %



MAT 2319 Kerma fission (mt18 or mt19-20-21-38) 23-V -48
 Cross Section -100.0 To 9999. %

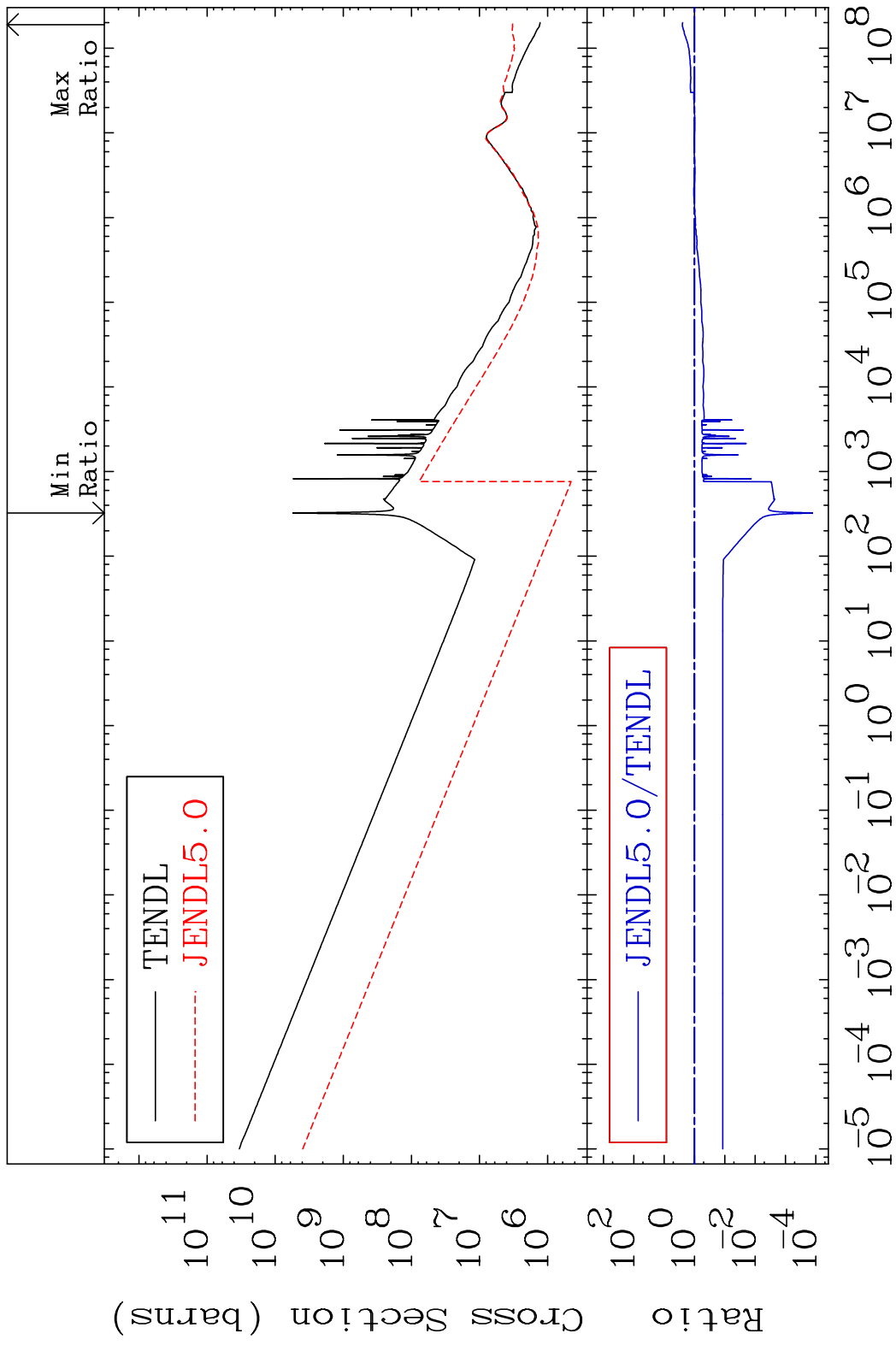


MAT 2319 Kerma capture (mt102) 23-V -48
 Cross Section -100.0 To 5926. %



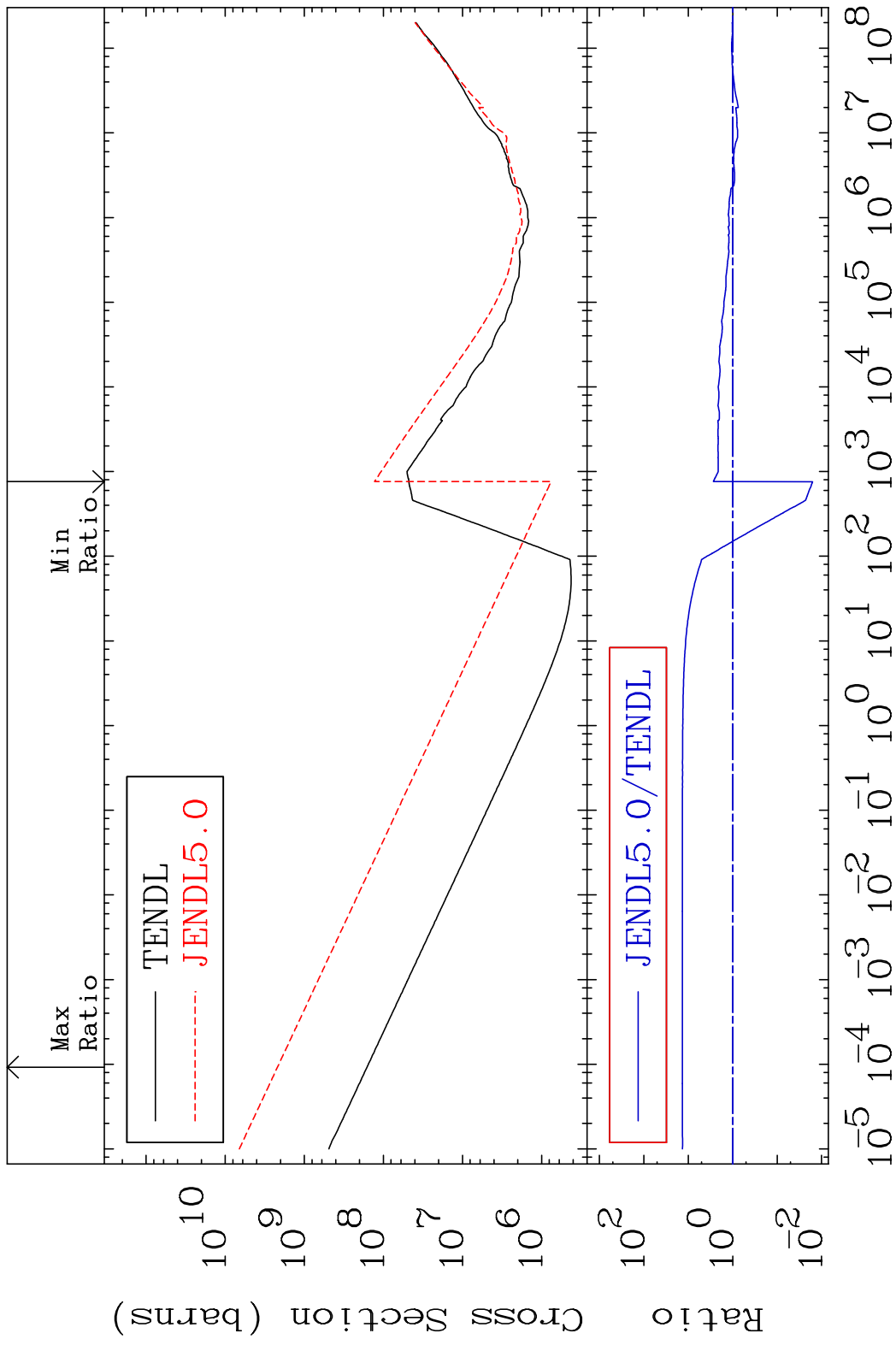
56 Incident Energy (eV) 23-V -48

MAT 2319 Total photon (eV-barns) 23-V -48
 Cross Section -99.99 To 150.2 %

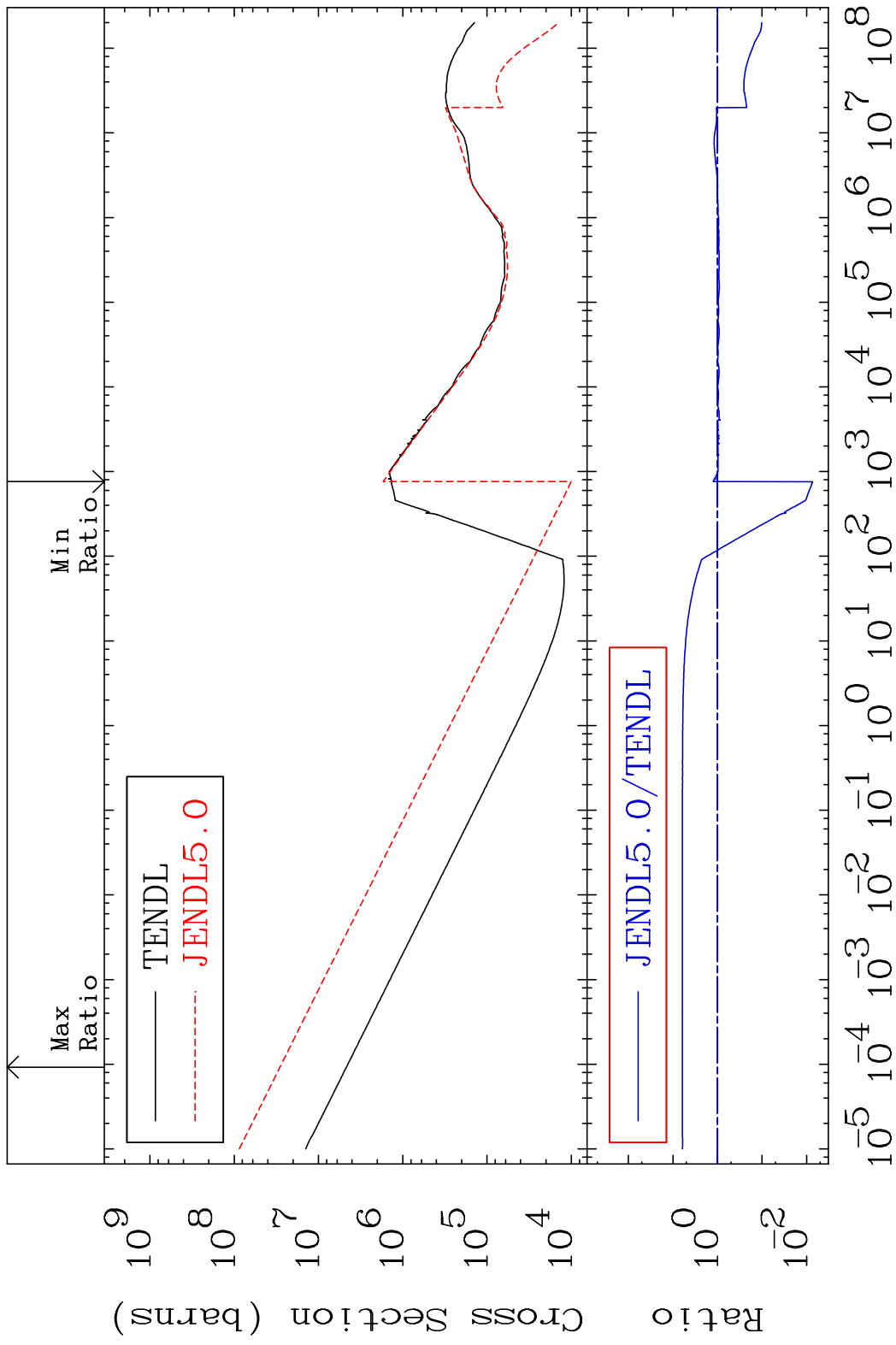


57 Incident Energy (eV) 23-V -48

MAT 2319 Total kinematic kerma (high limit) 23-V -48
 Cross Section -98.40 To 1257. %



MAT 2319 Dpa total (eV-barns) 23-V -48
 Cross Section -99.26 To 515.3 %



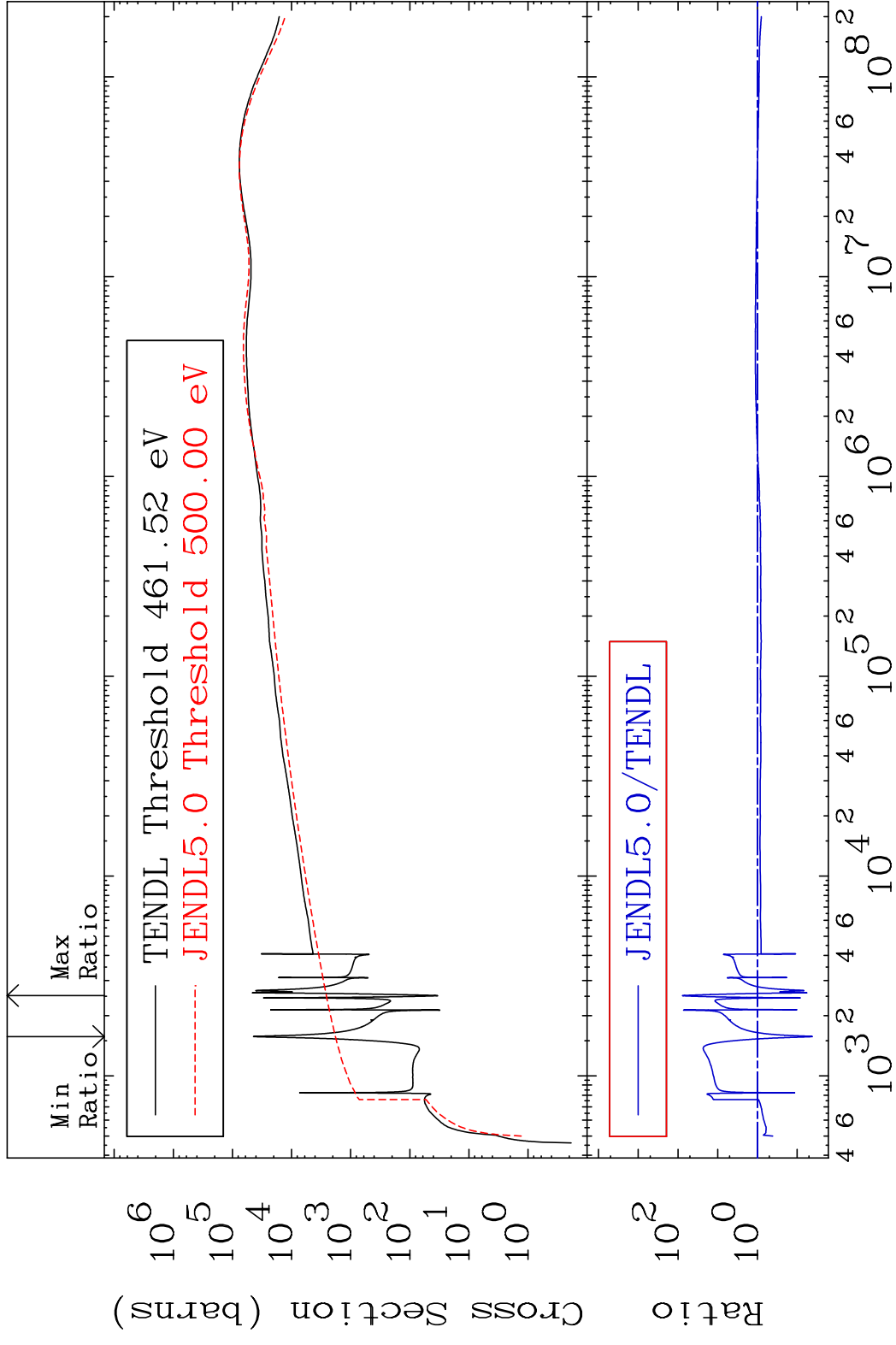
59 Incident Energy (eV) 23-V -48

MAT 2319

Dpa elastic (mt2)

23-V -48

Cross Section -95.92 To 7651. %

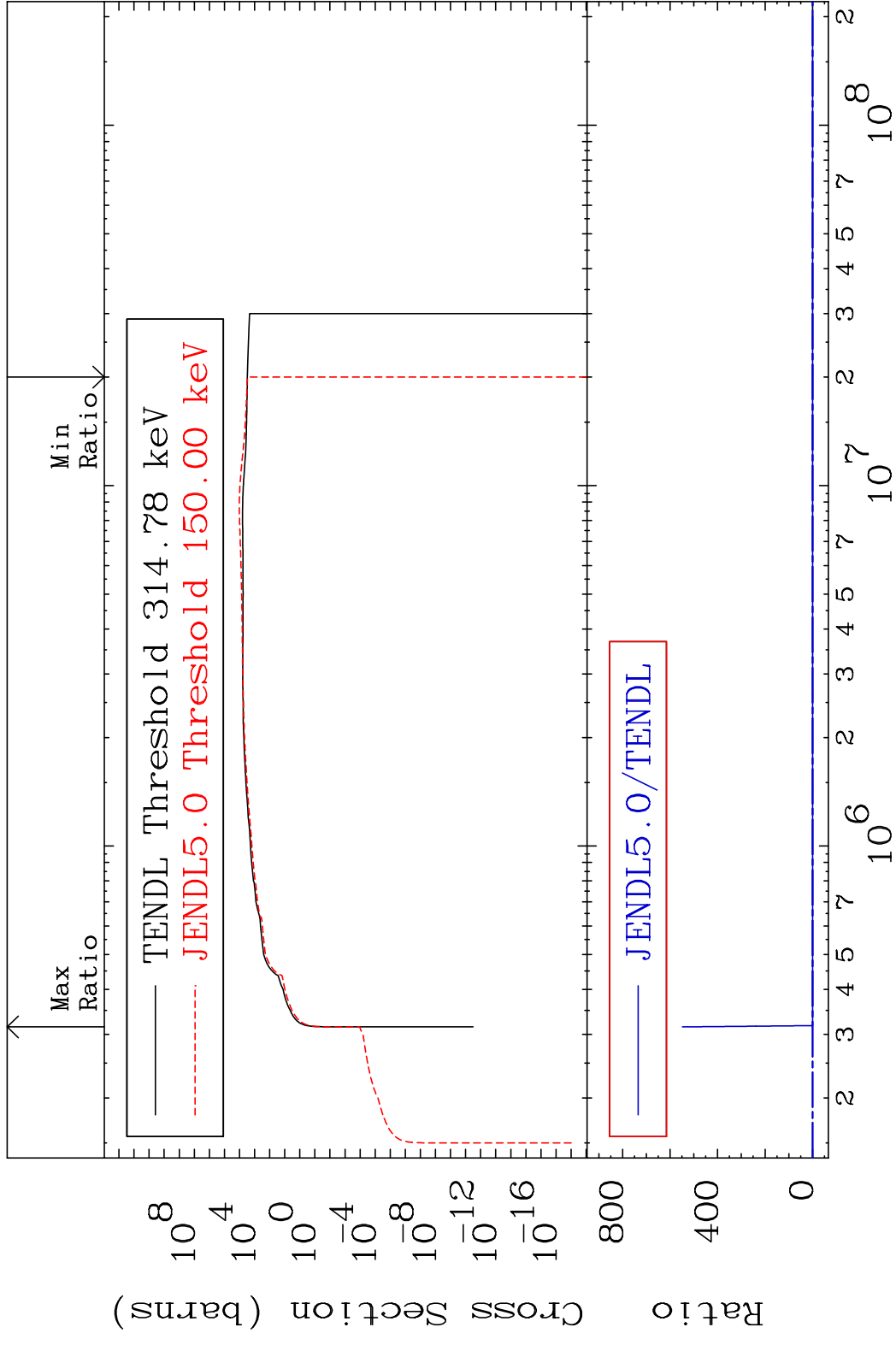


60

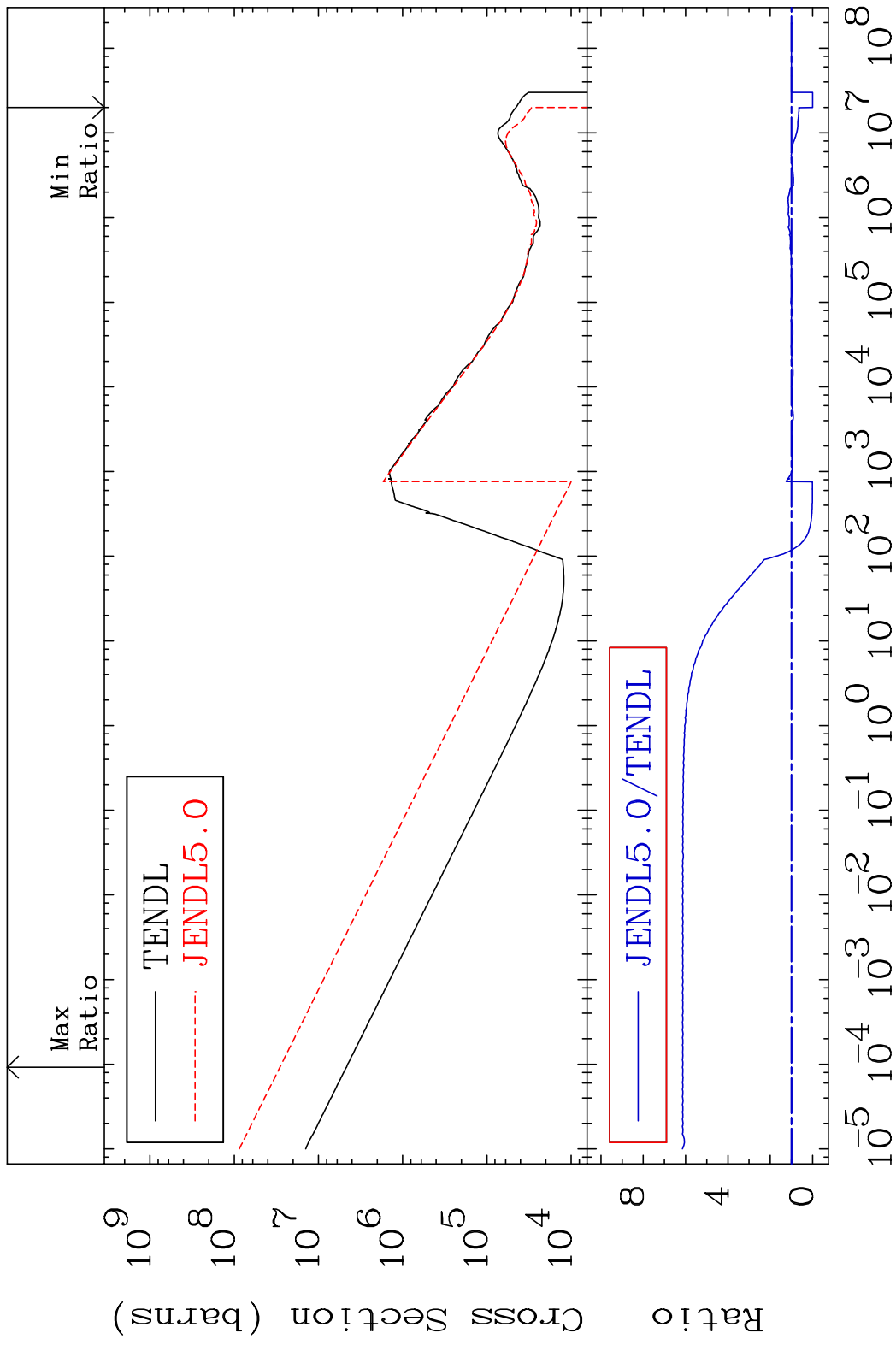
Incident Energy (eV)

23-V -48

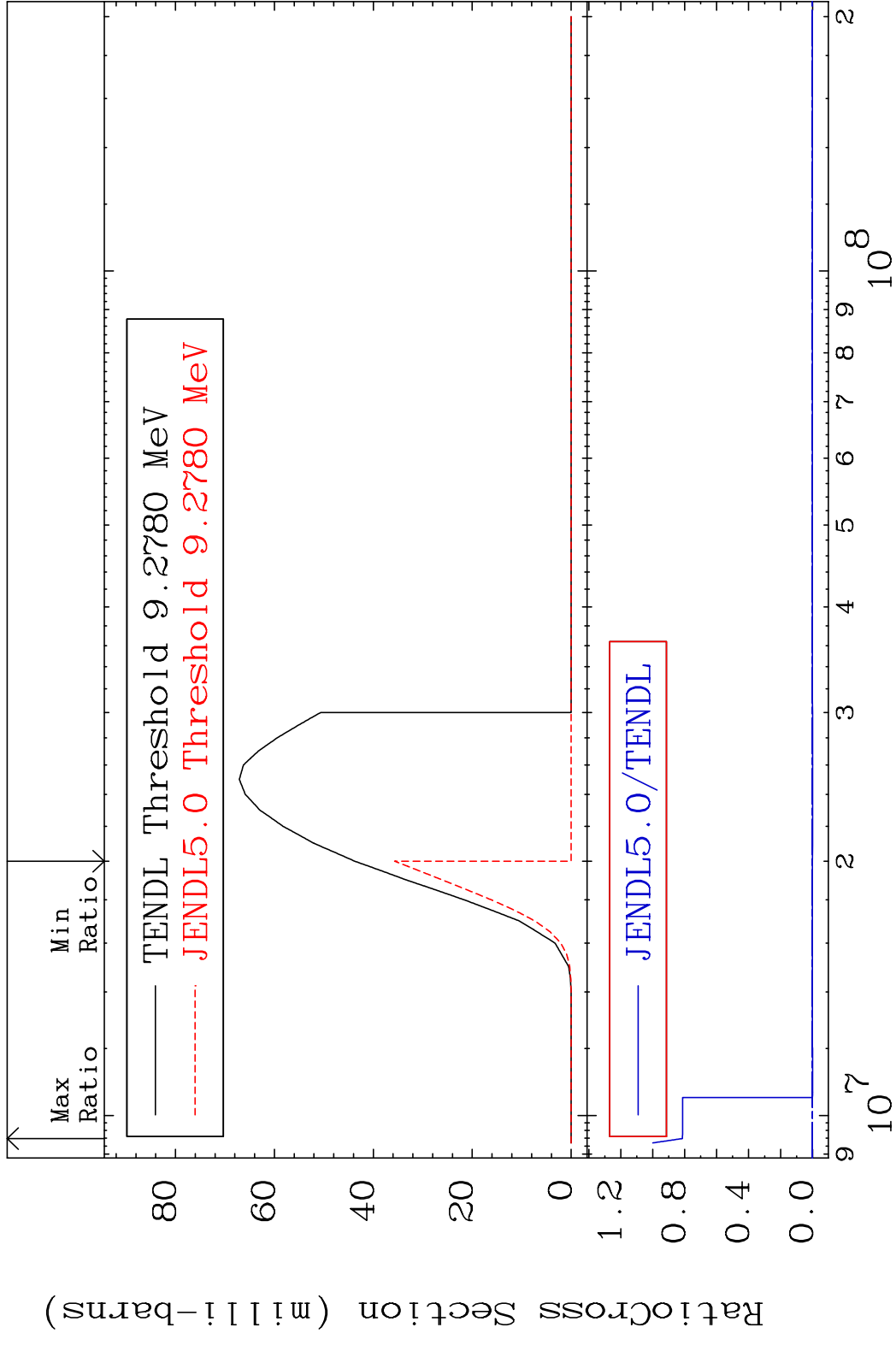
MAT 2319 Dpa inelastic (mt51-91) 23-V -48
 Cross Section -100.0 To 9999. %

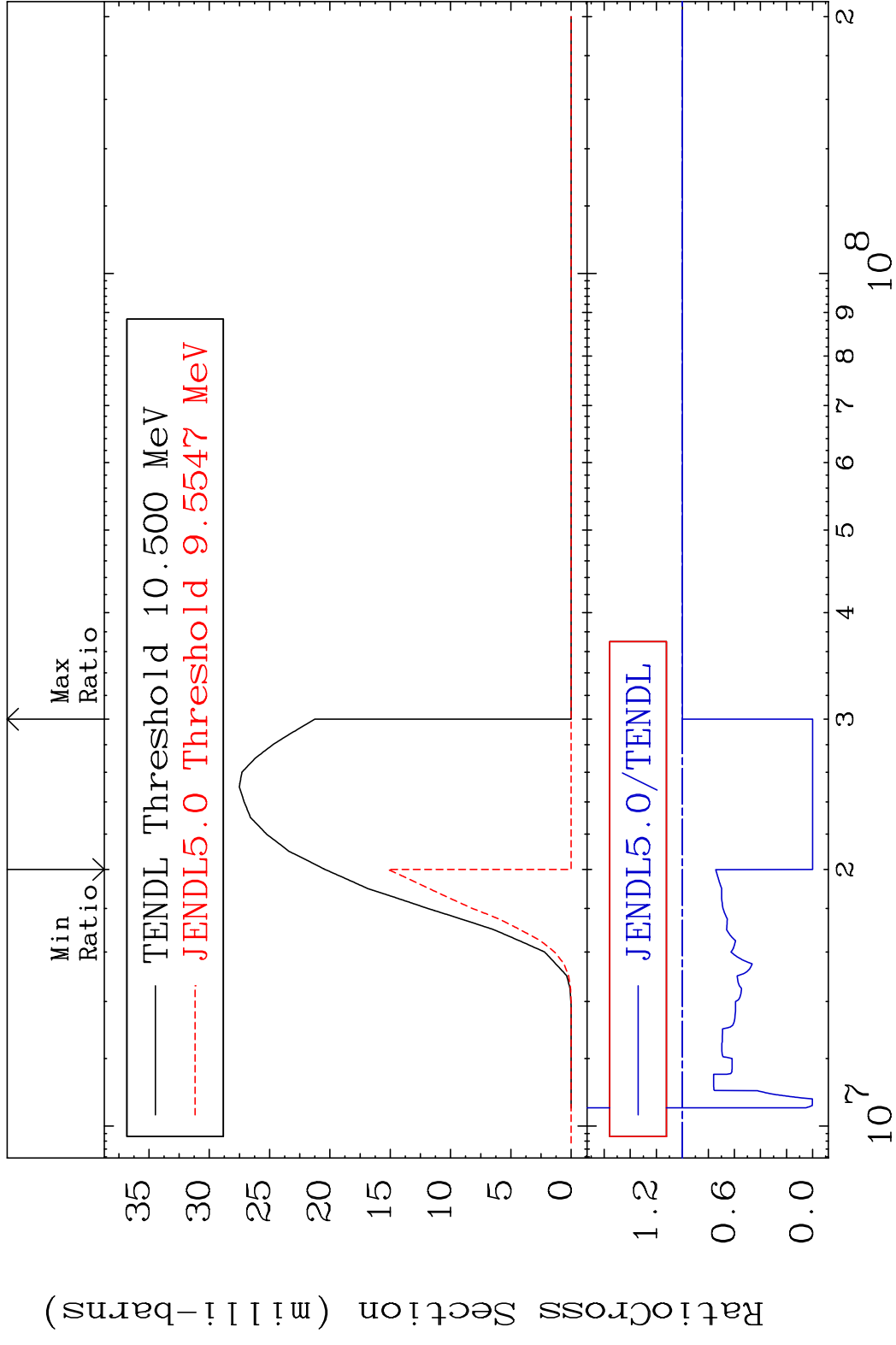


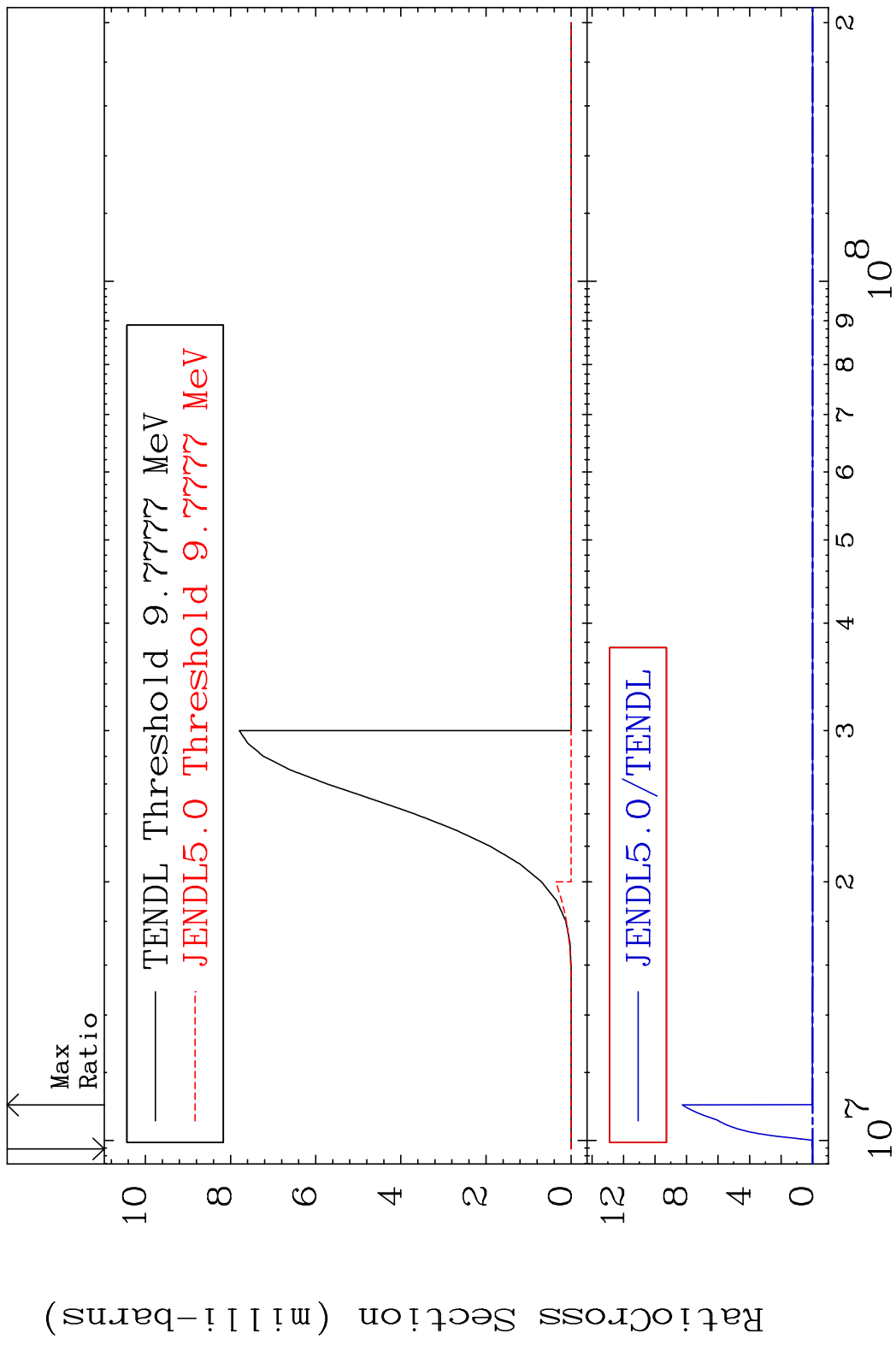
MAT 2319 Dpa disappearance (mt102 -120) 23-V -48
 Cross Section -100.0 To 515.3 %

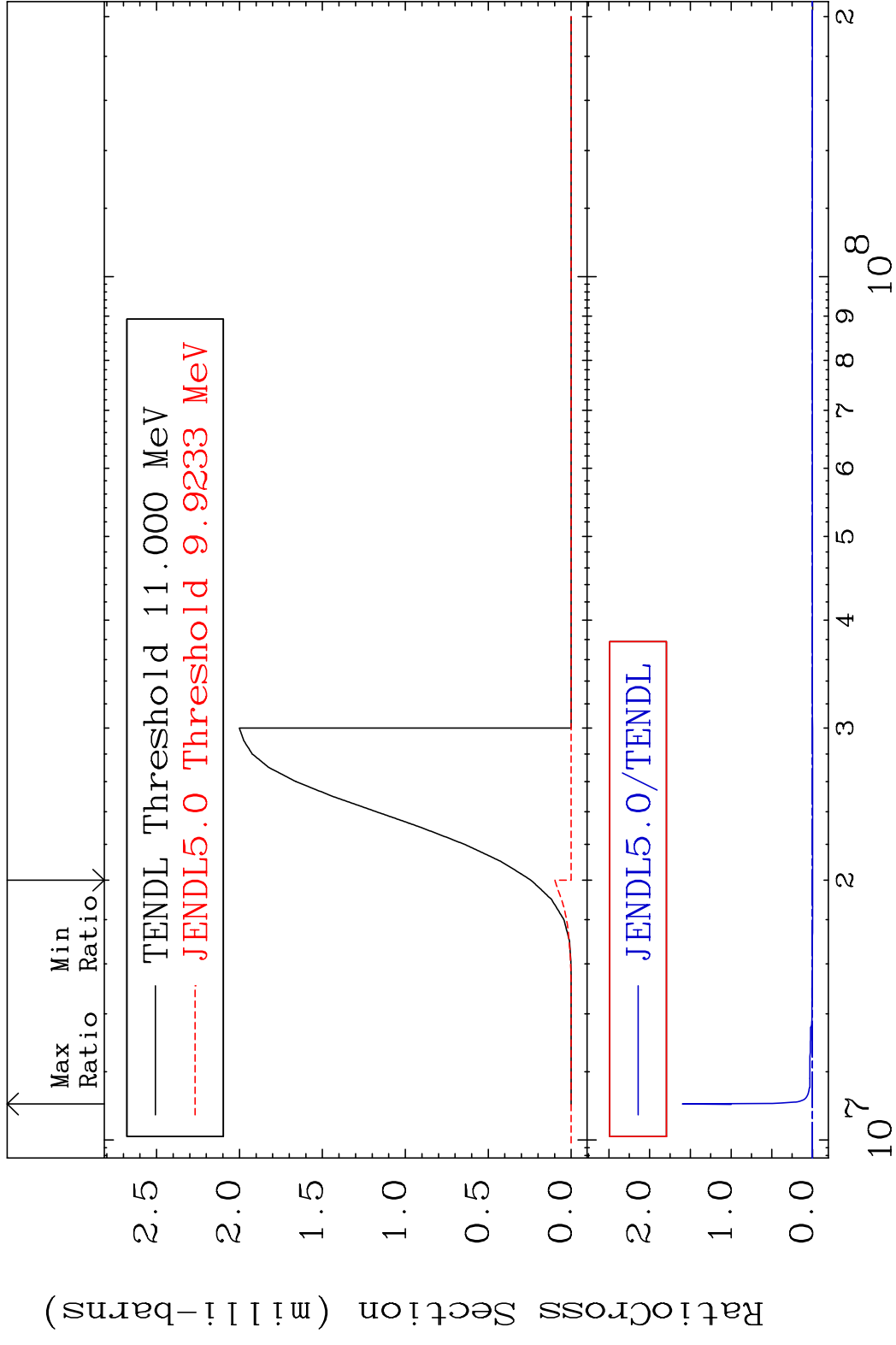


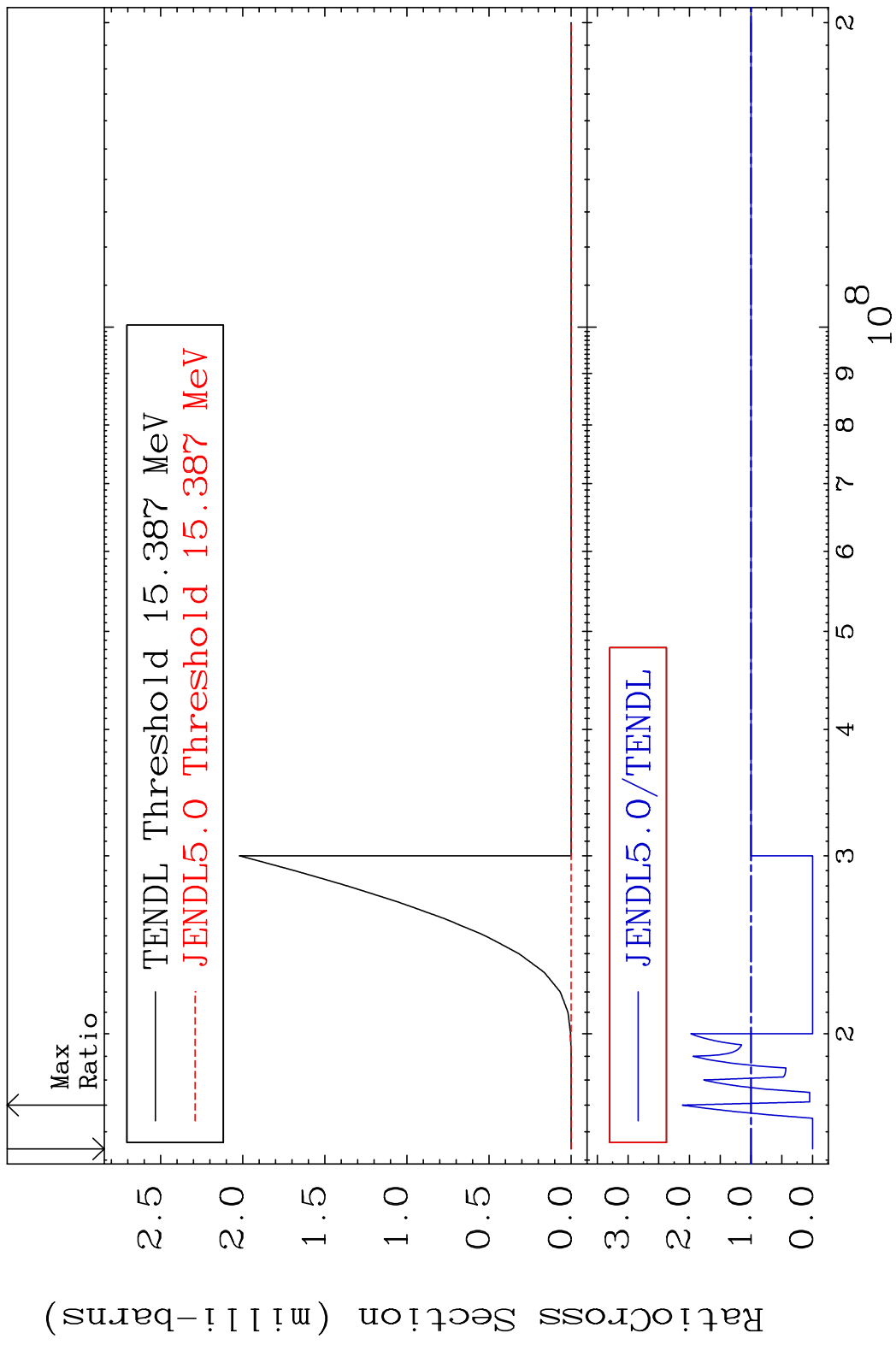
62 Incident Energy (eV) 23-V -48

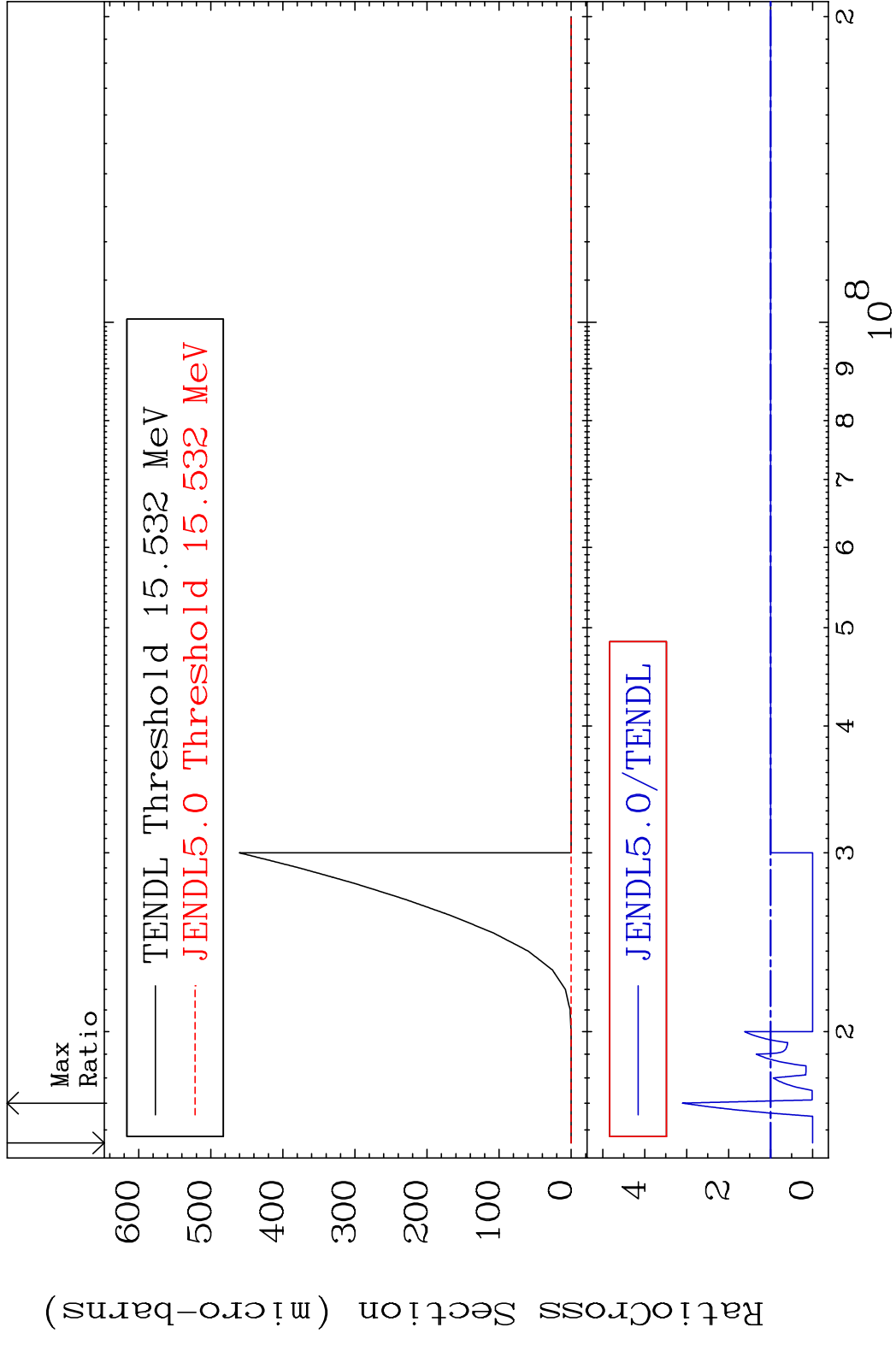






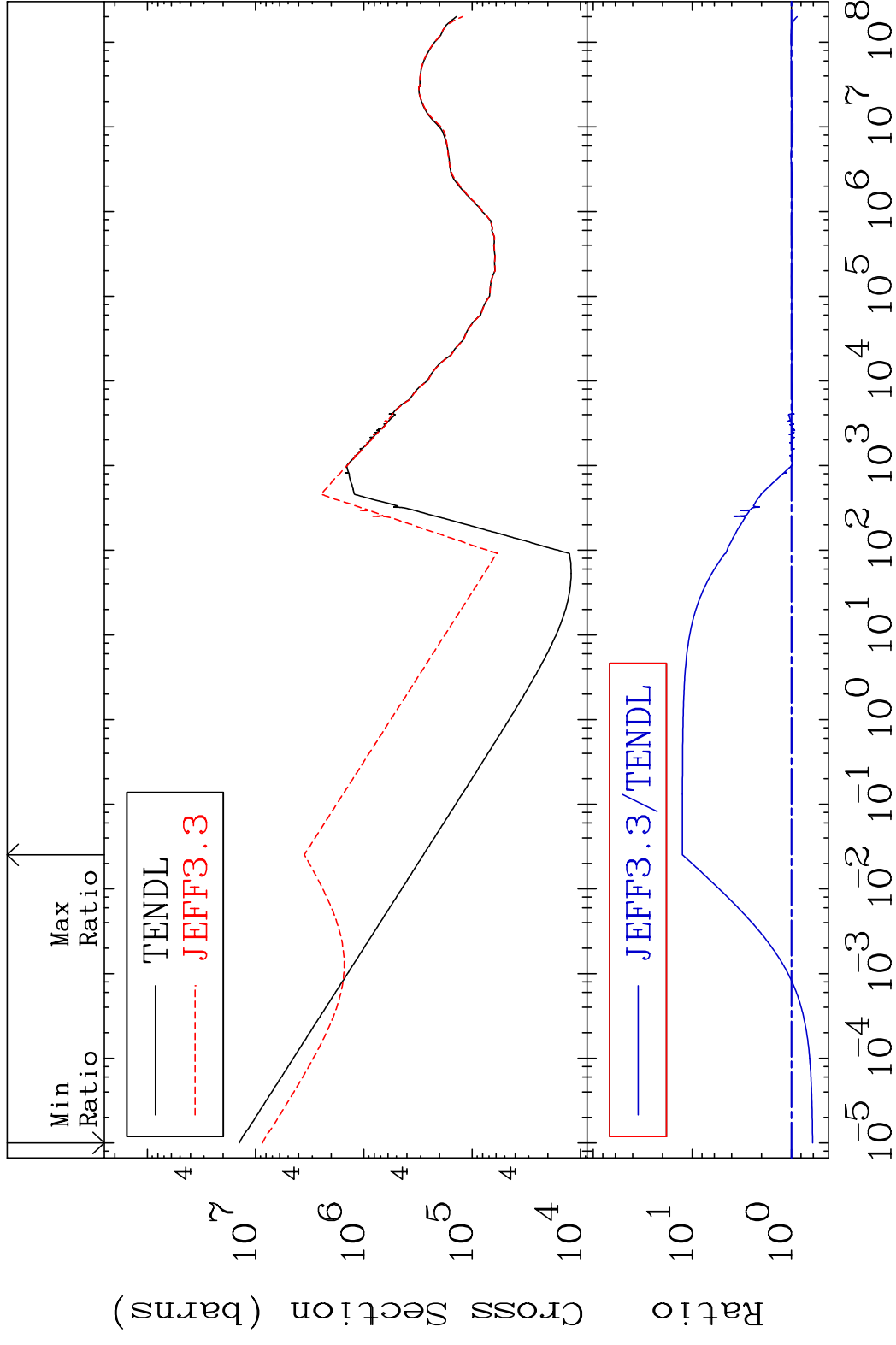






MAT 2319

Dpa total (eV-barns) 23-V -48
Cross Section -38.93 To 1160. %



69

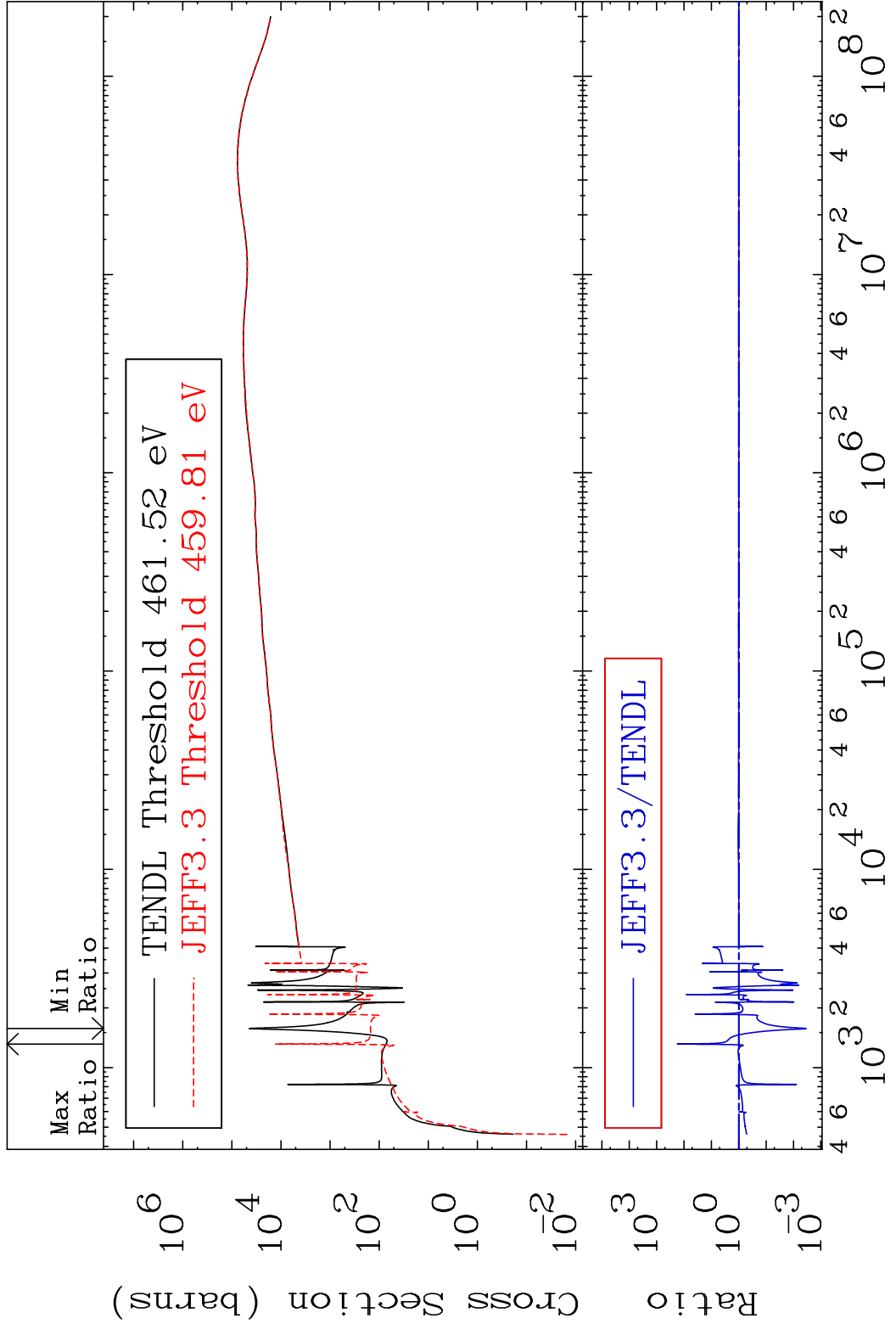
Incident Energy (eV) 23-V -48

MAT 2319

Dpa elastic (mt2)

23-V -48

Cross Section -99.66 To 9999. %

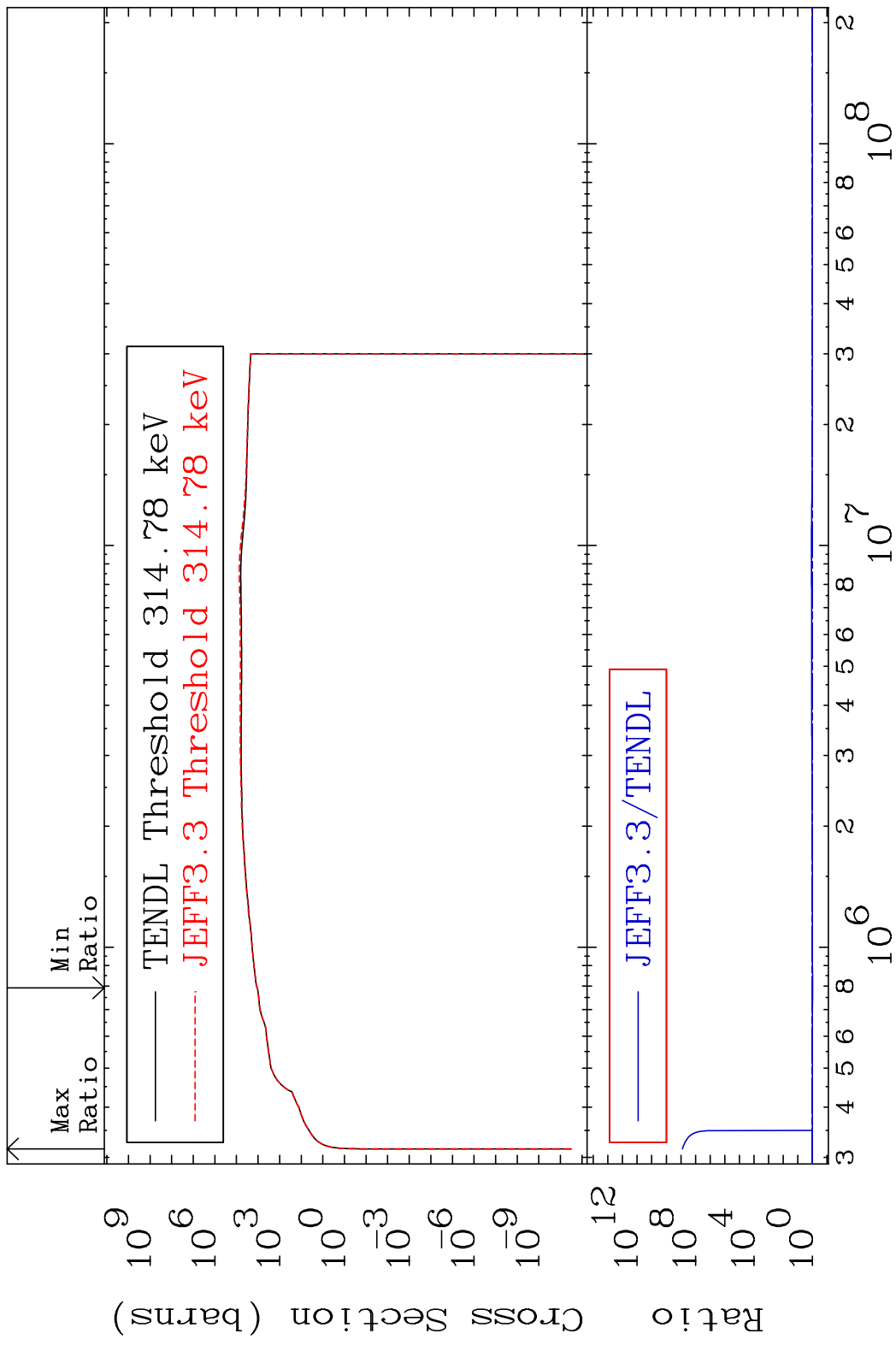


70

Incident Energy (eV)

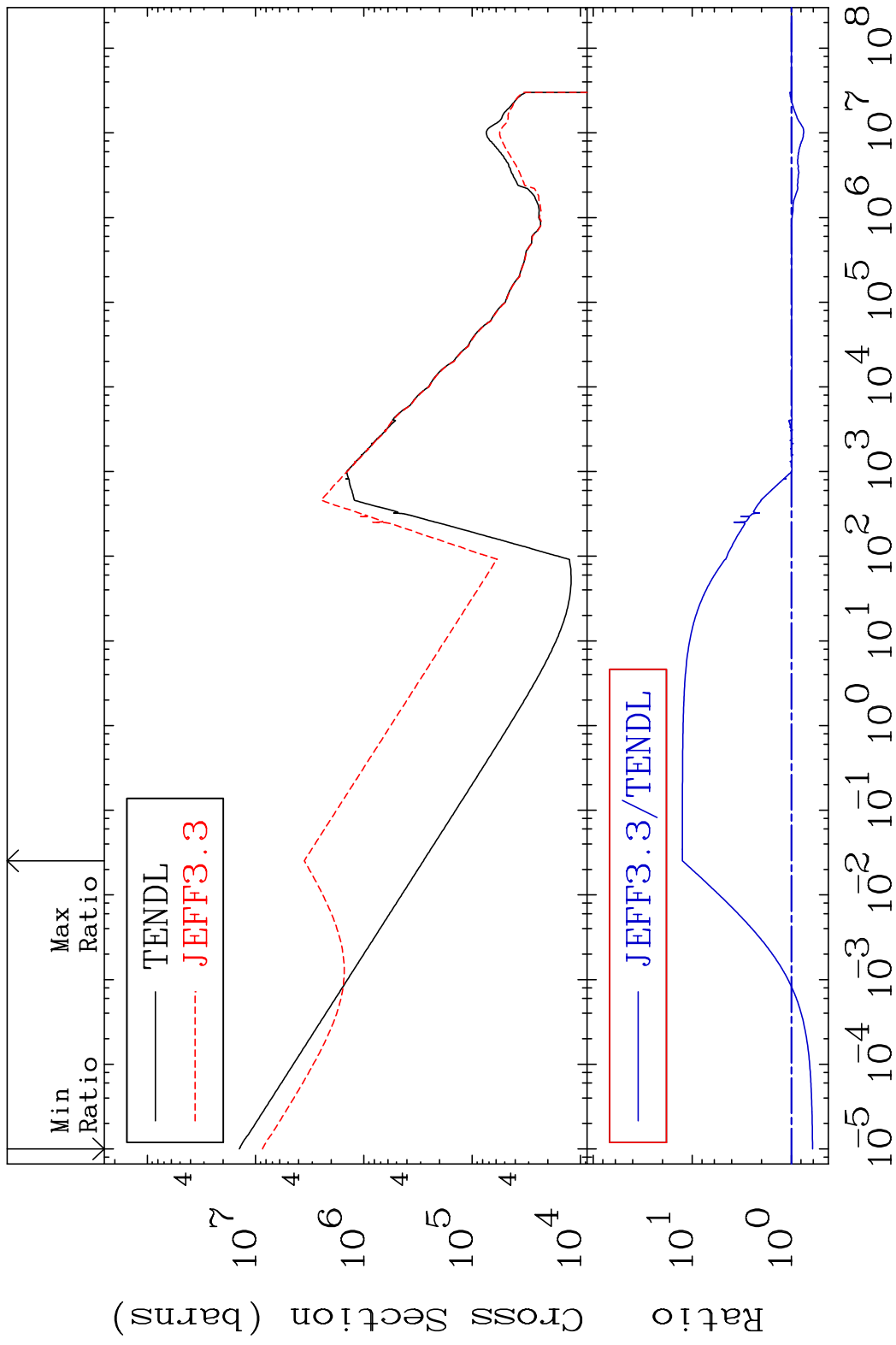
23-V -48

MAT 2319 Dpa inelastic (mt51-91) 23-V -48
 Cross Section -1.456 To 9999. %

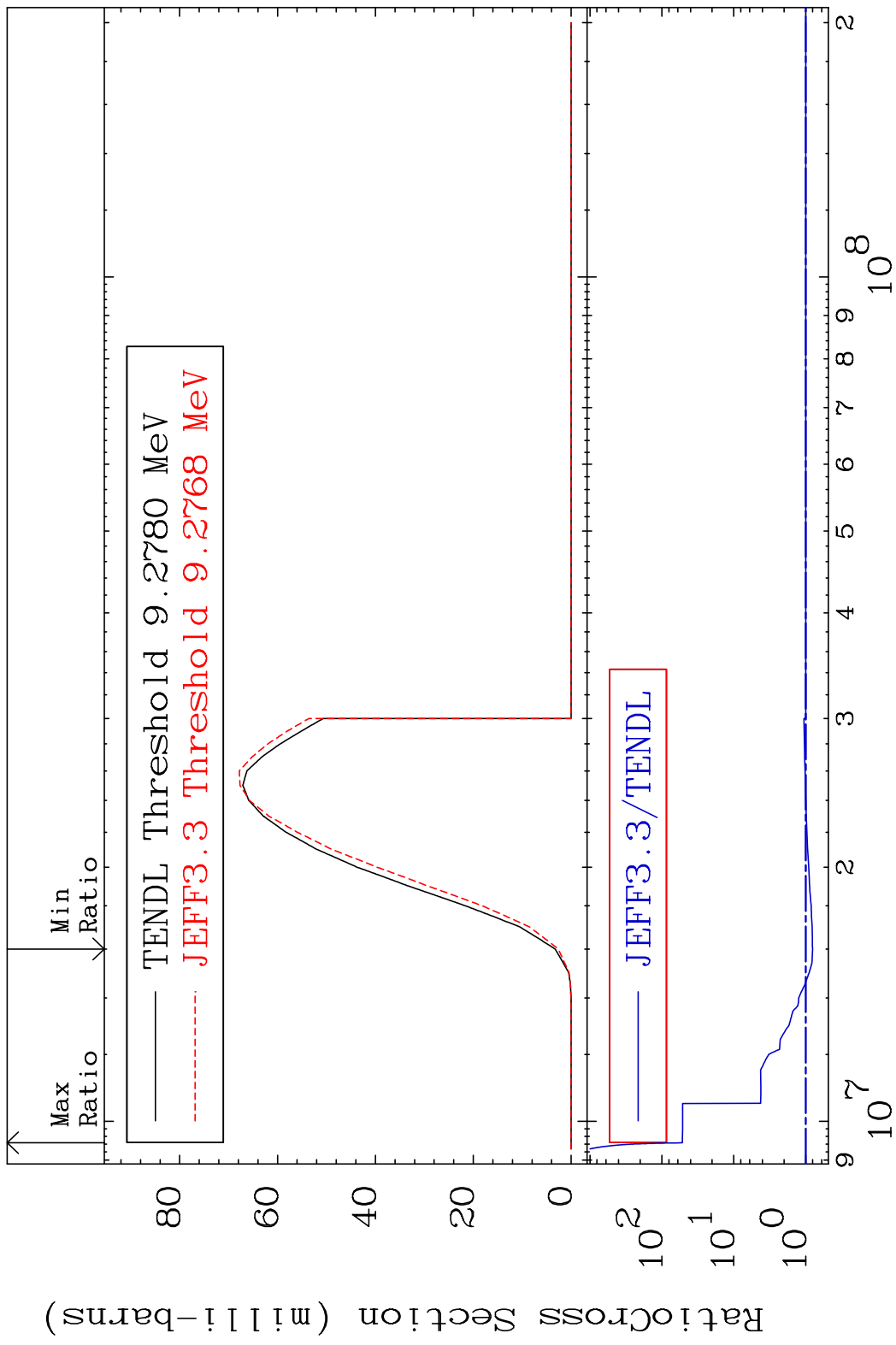


71 Incident Energy (eV) 23-V -48

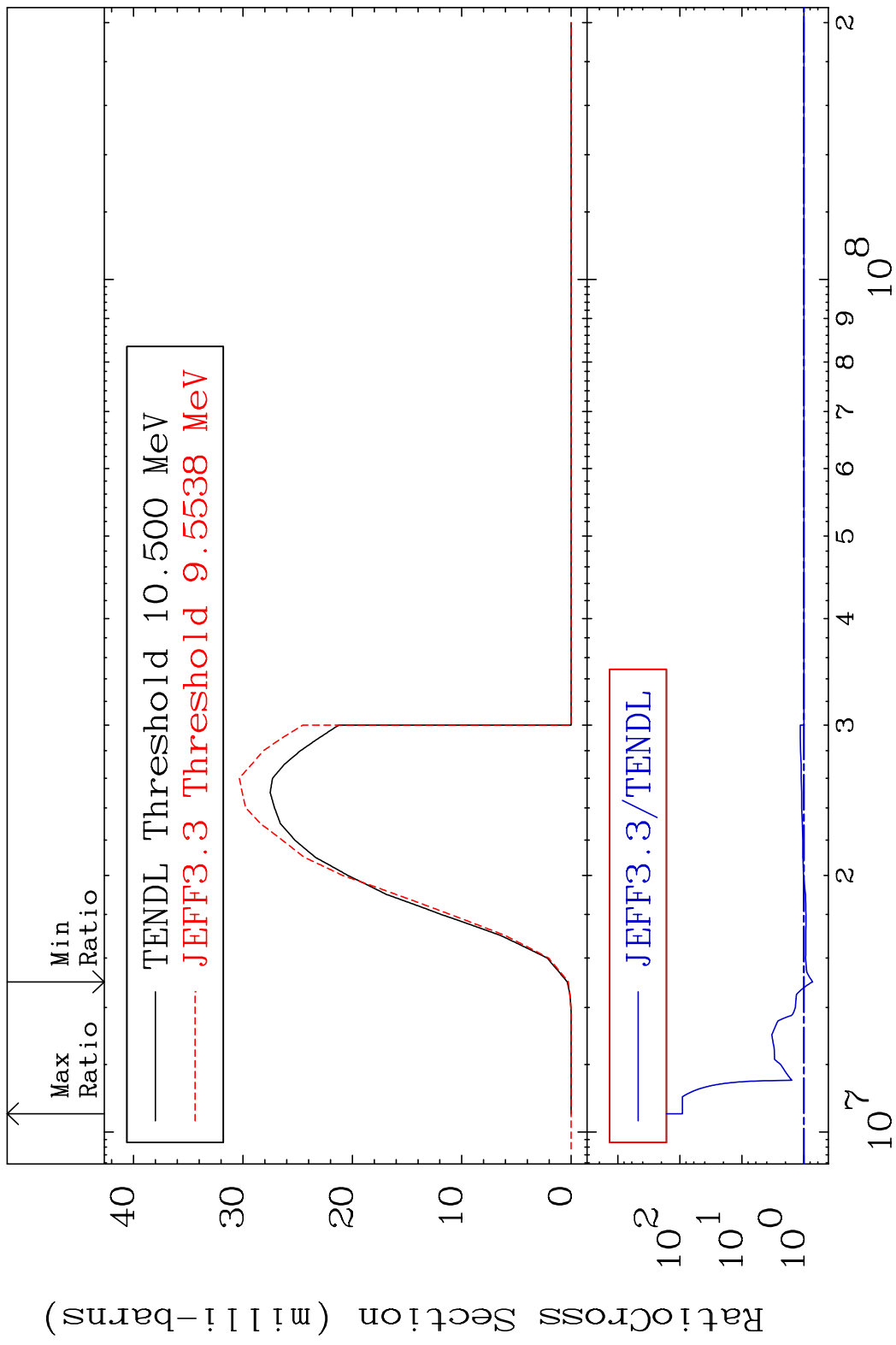
MAT 2319 Dpa disappearance (mt102 -120) 23-V -48
 Cross Section -38.93 To 1160. %



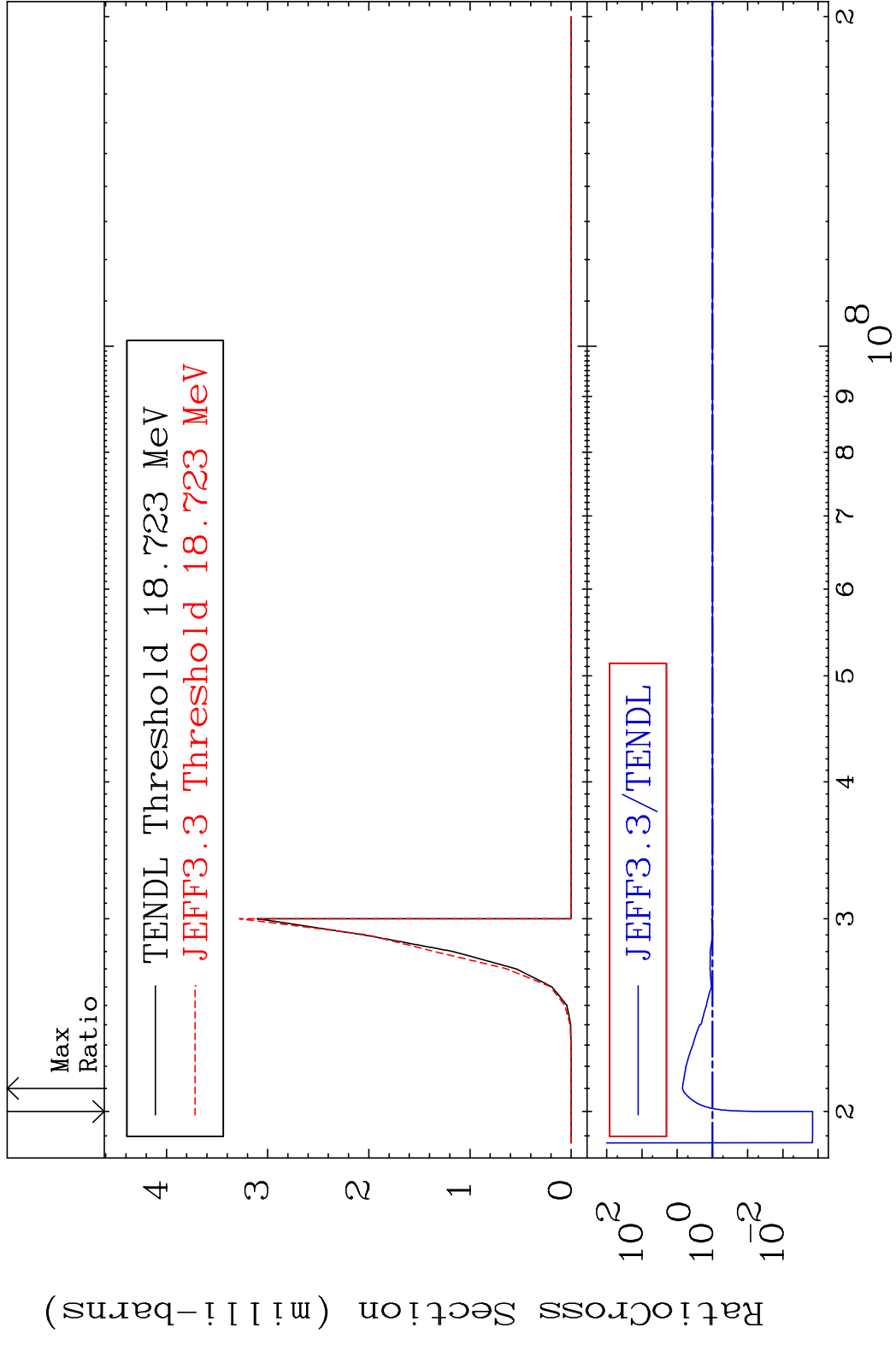
72 Incident Energy (eV) 23-V -48

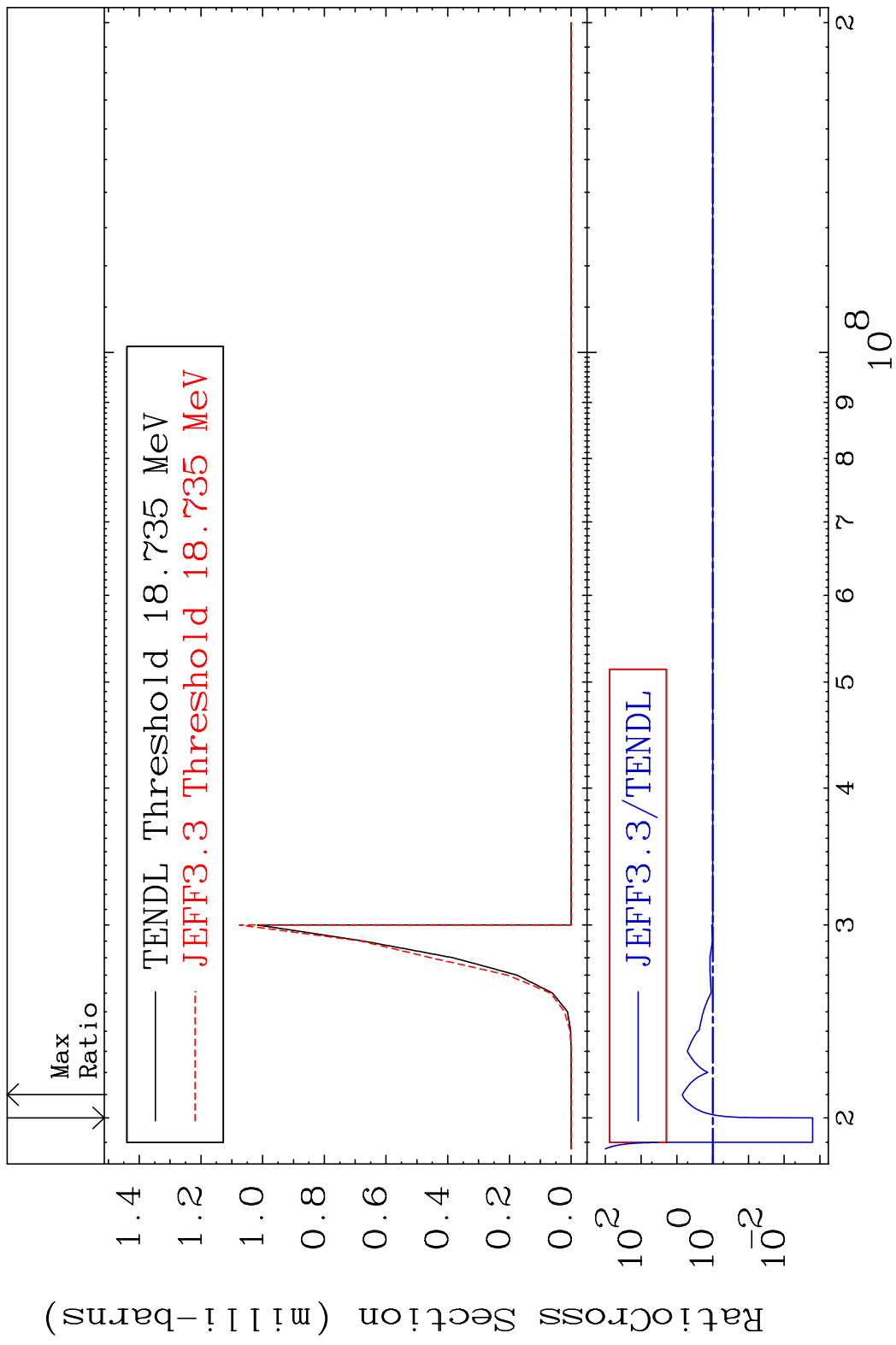


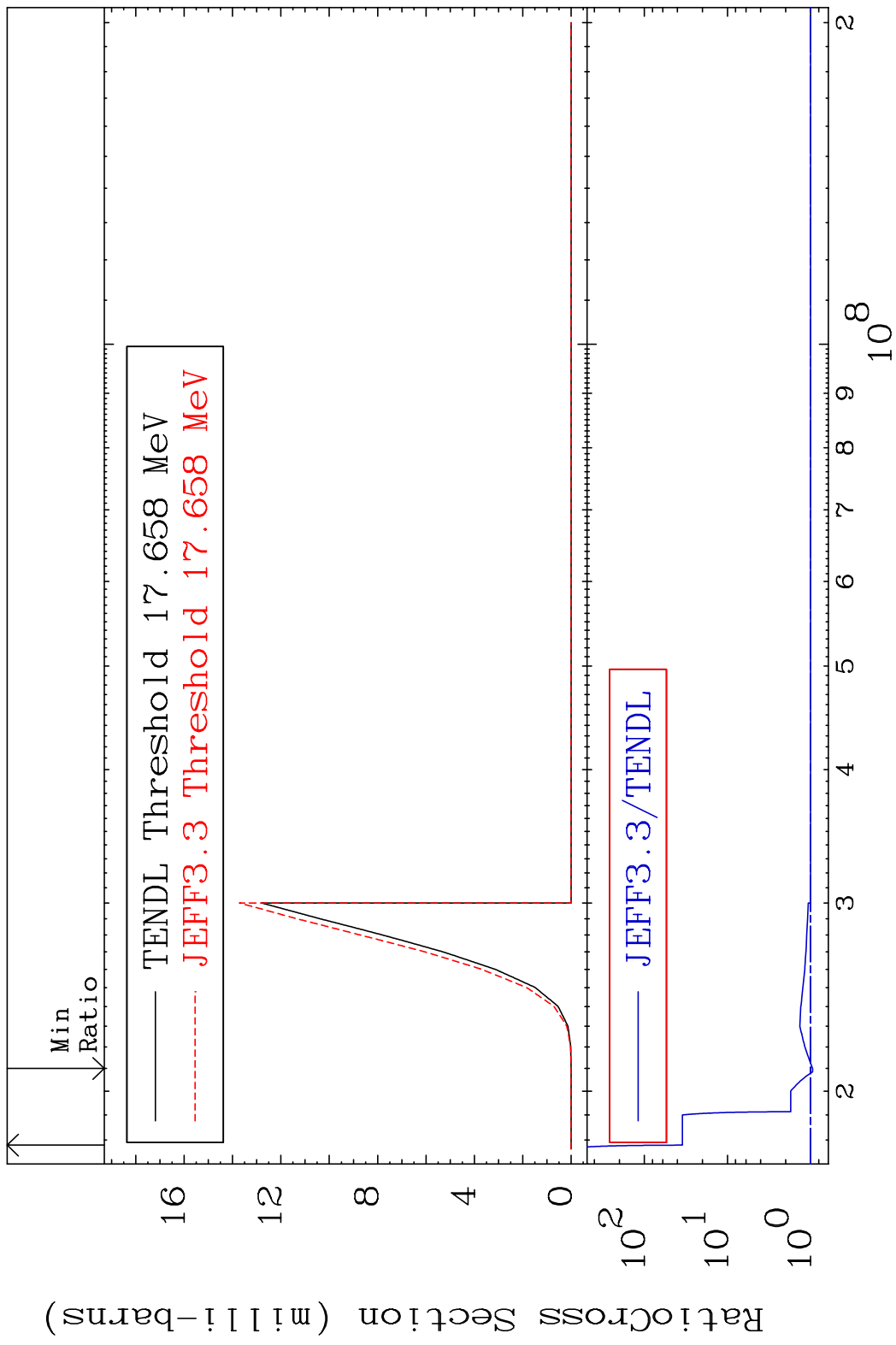
MAT 2319 (n, n') α :21-Sc-44m4 23-V -48
 Radionuclide Production Cross Section to 9055. %

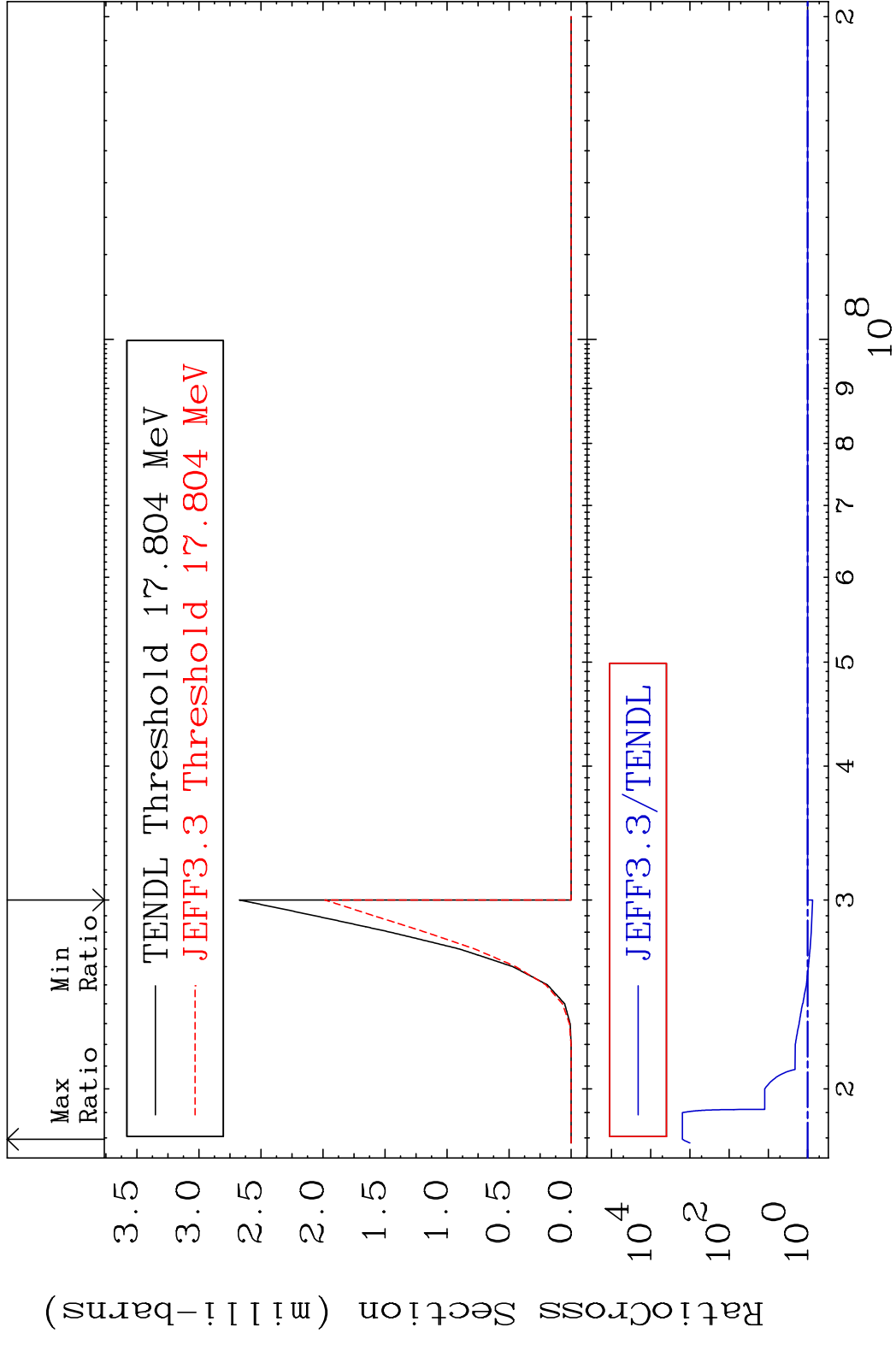


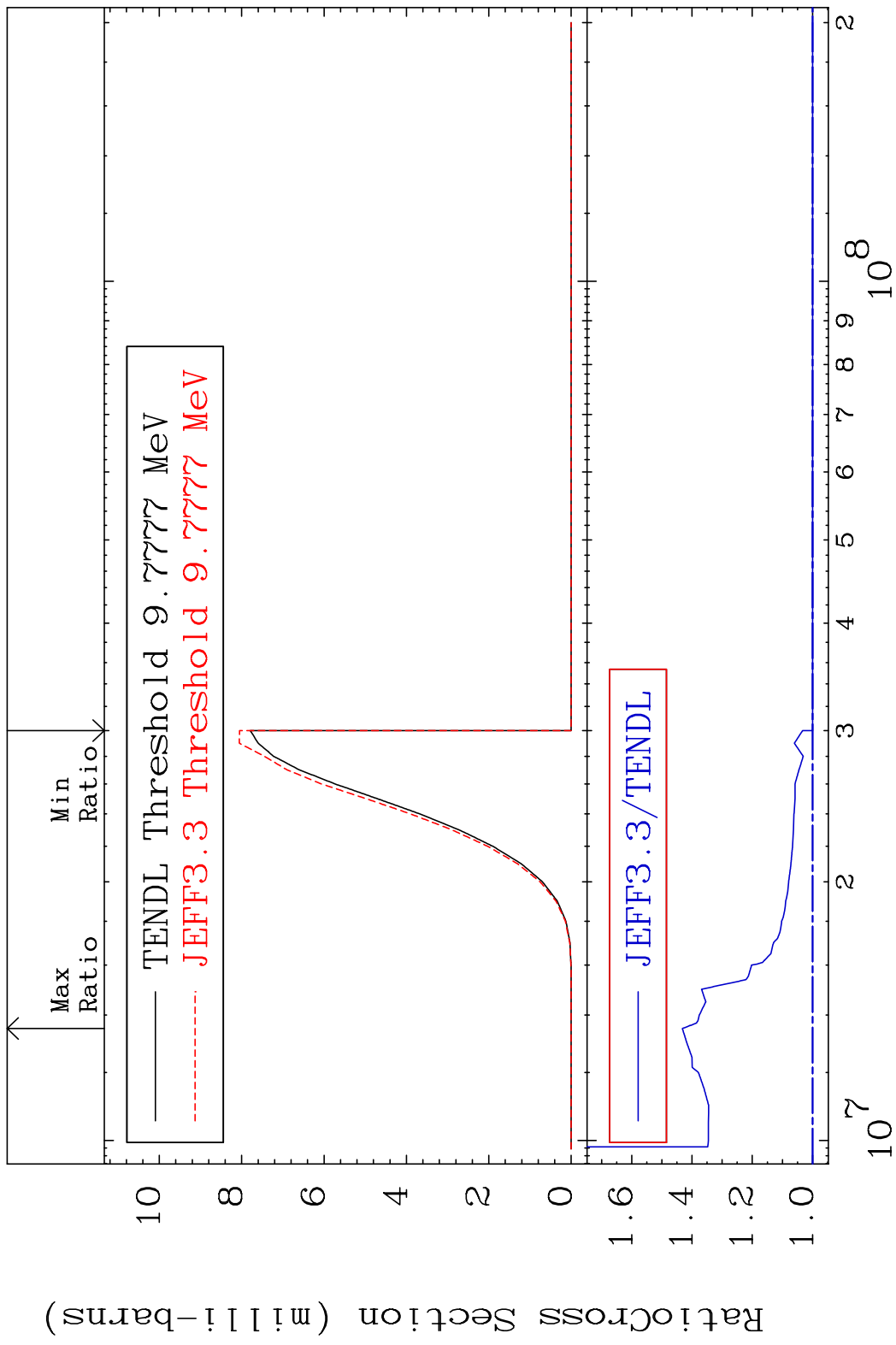
74 Incident Energy (eV) 23-V -48

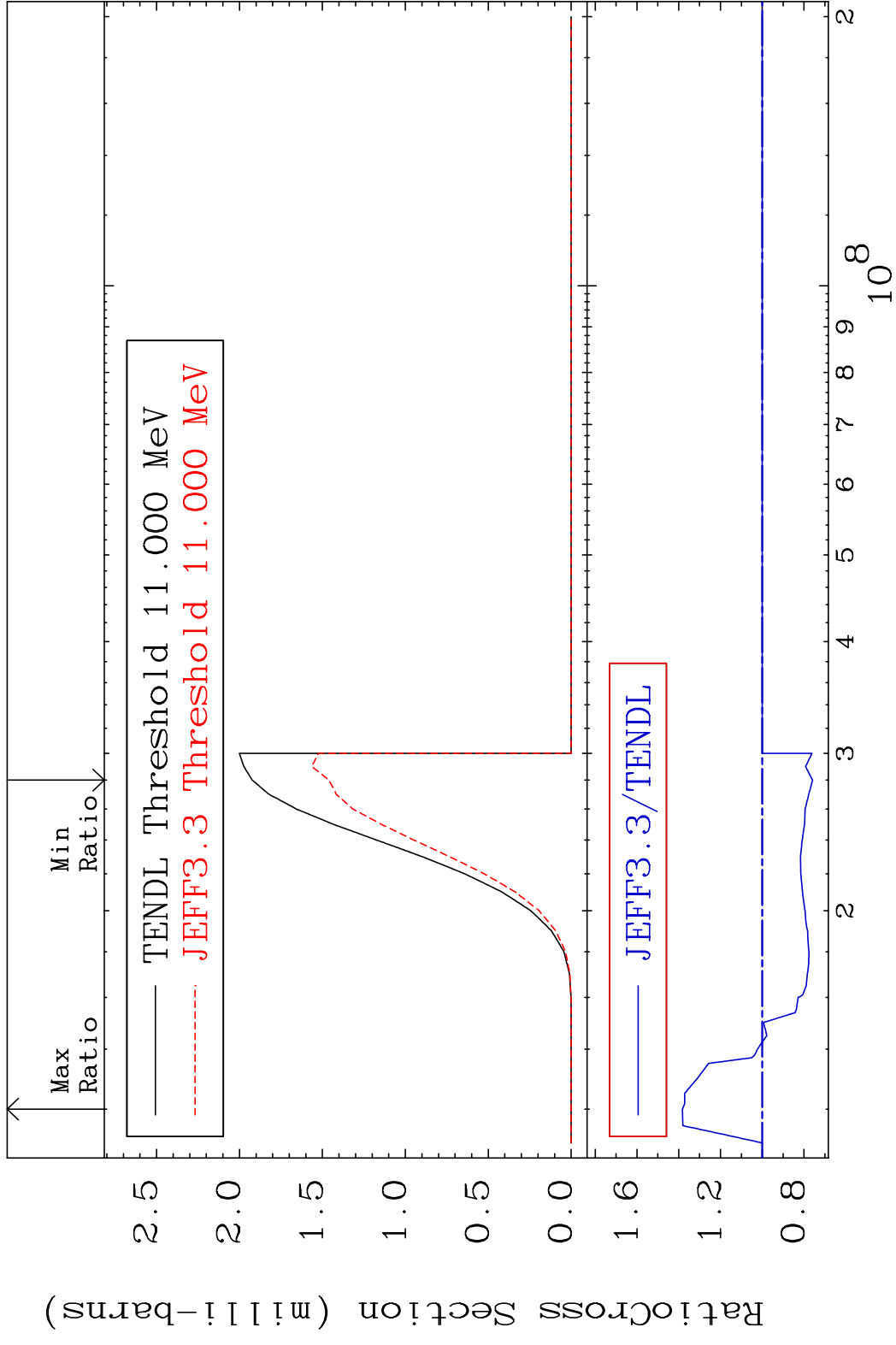


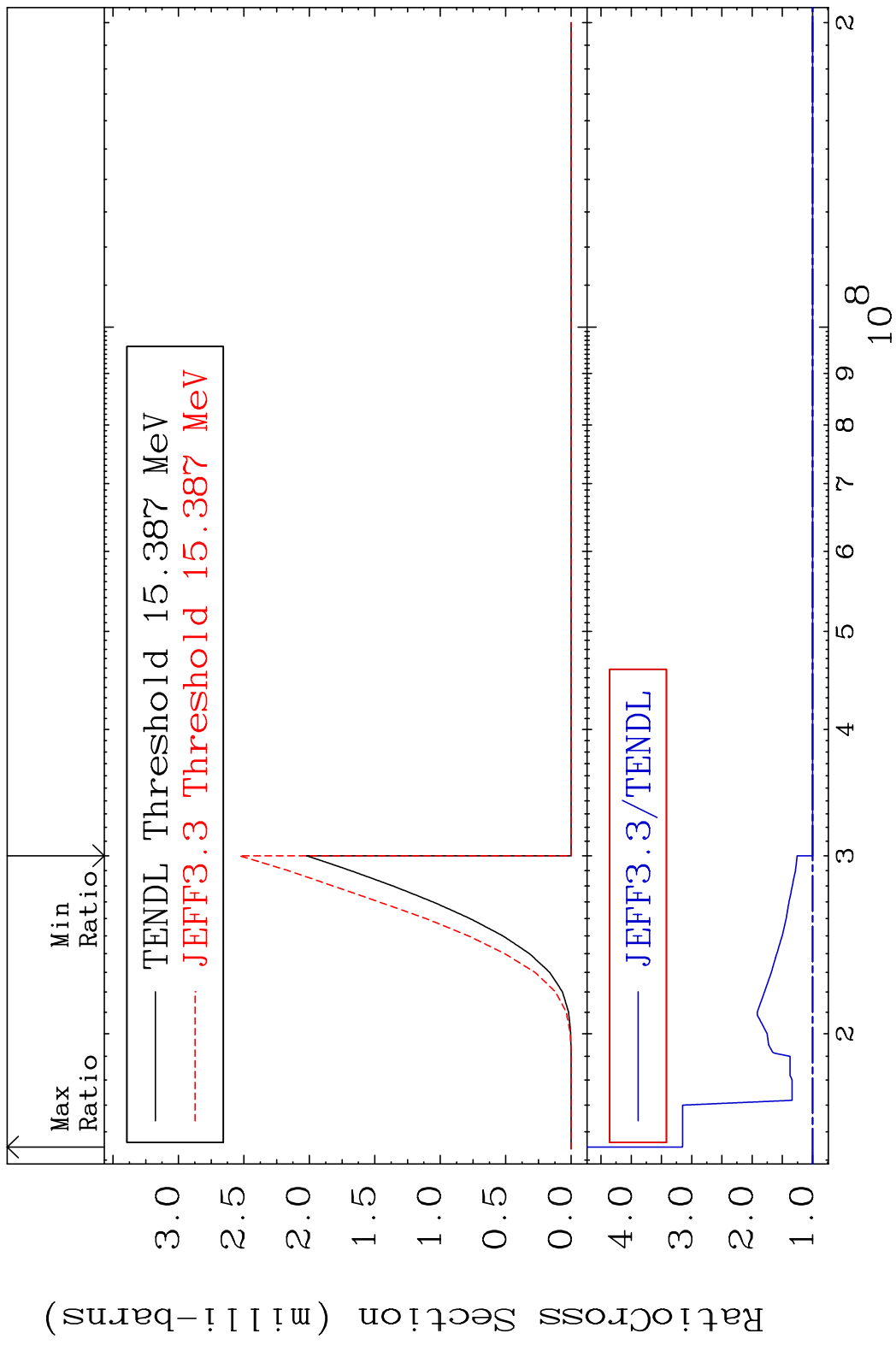


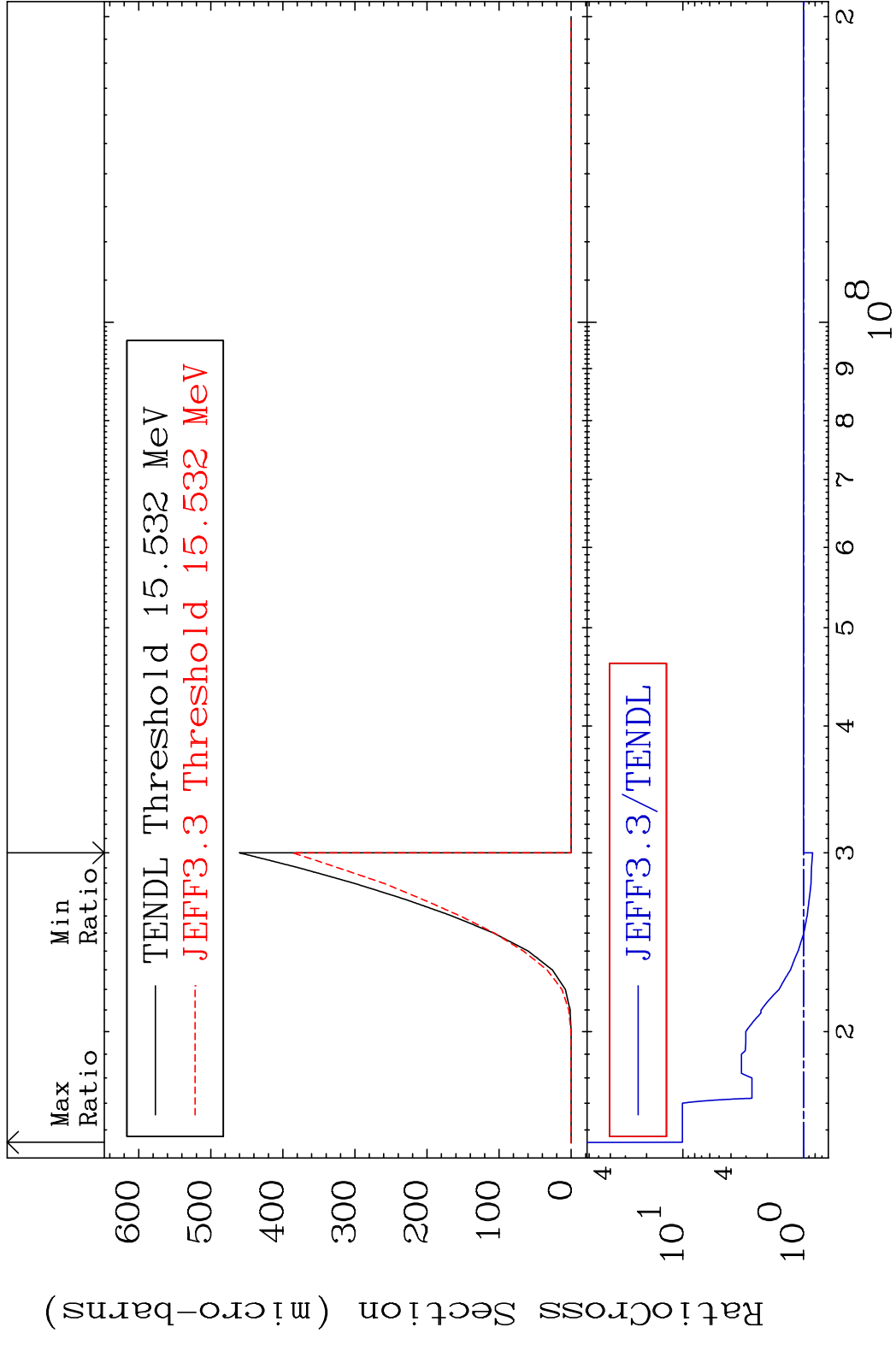




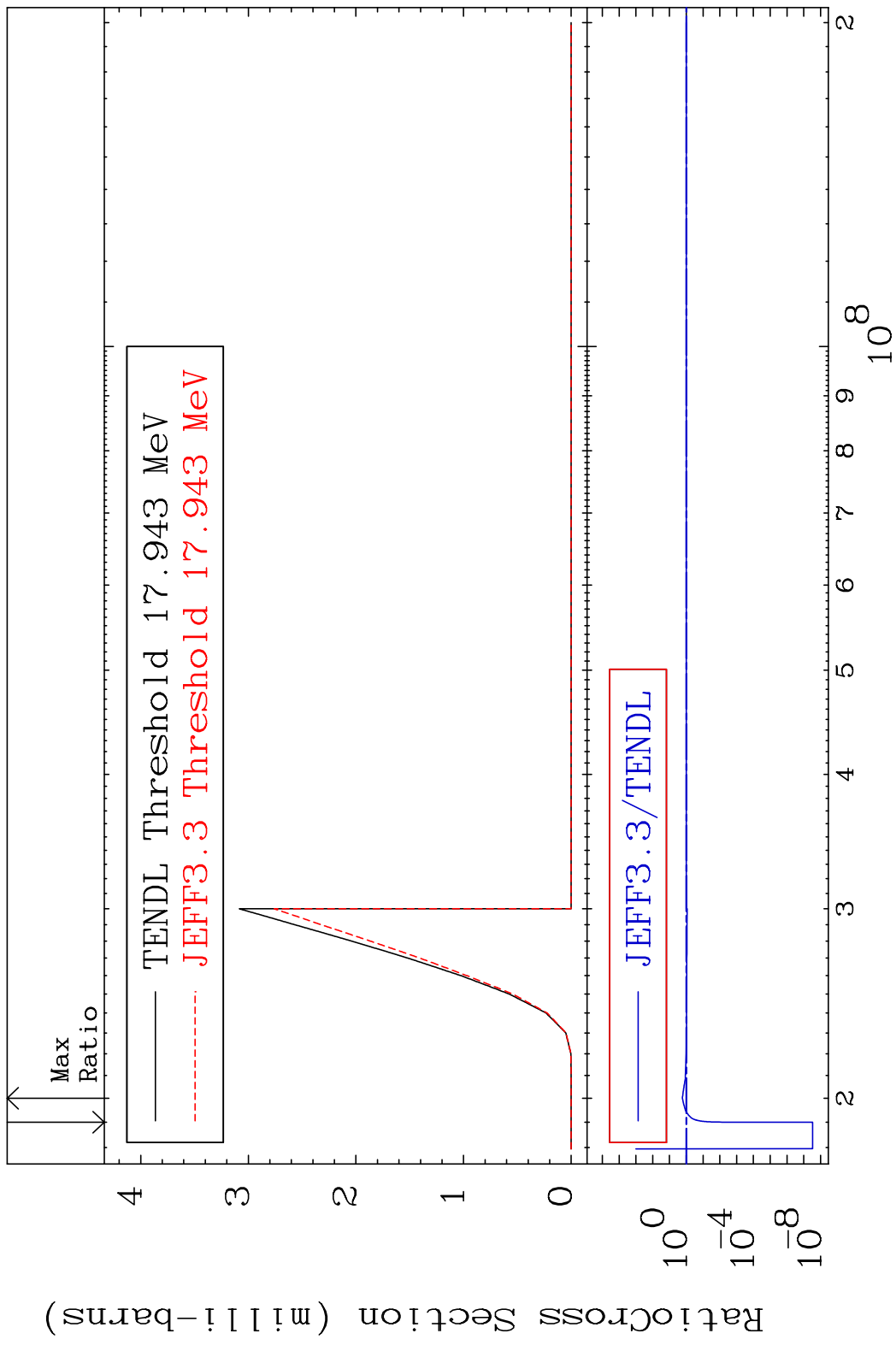








MAT 2319 (n,p) t:21-Sc-45g 23-V -48
 Radionuclide Production Cross Section Ratio 70.94 %



MAT 2319 (n,p) t:21-Sc-45m1 23-V -48
 Radionuclide Production Cross Section 180.01 dth 60.65 %

