

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

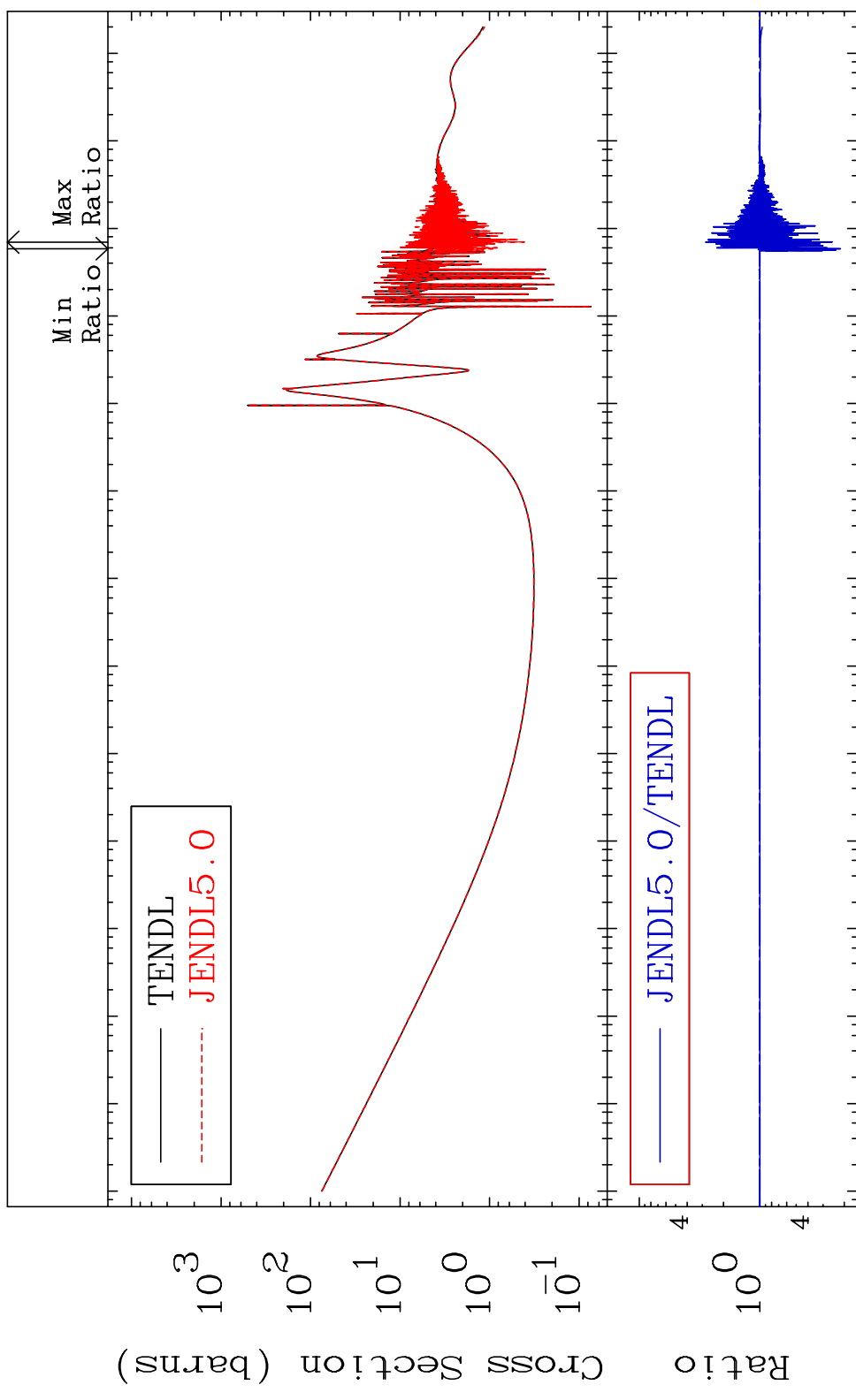
MAT 2843

Total

28-Ni-64

Cross Section

-78.50 To 180.8 %



1

Incident Energy (eV)

28-Ni-64

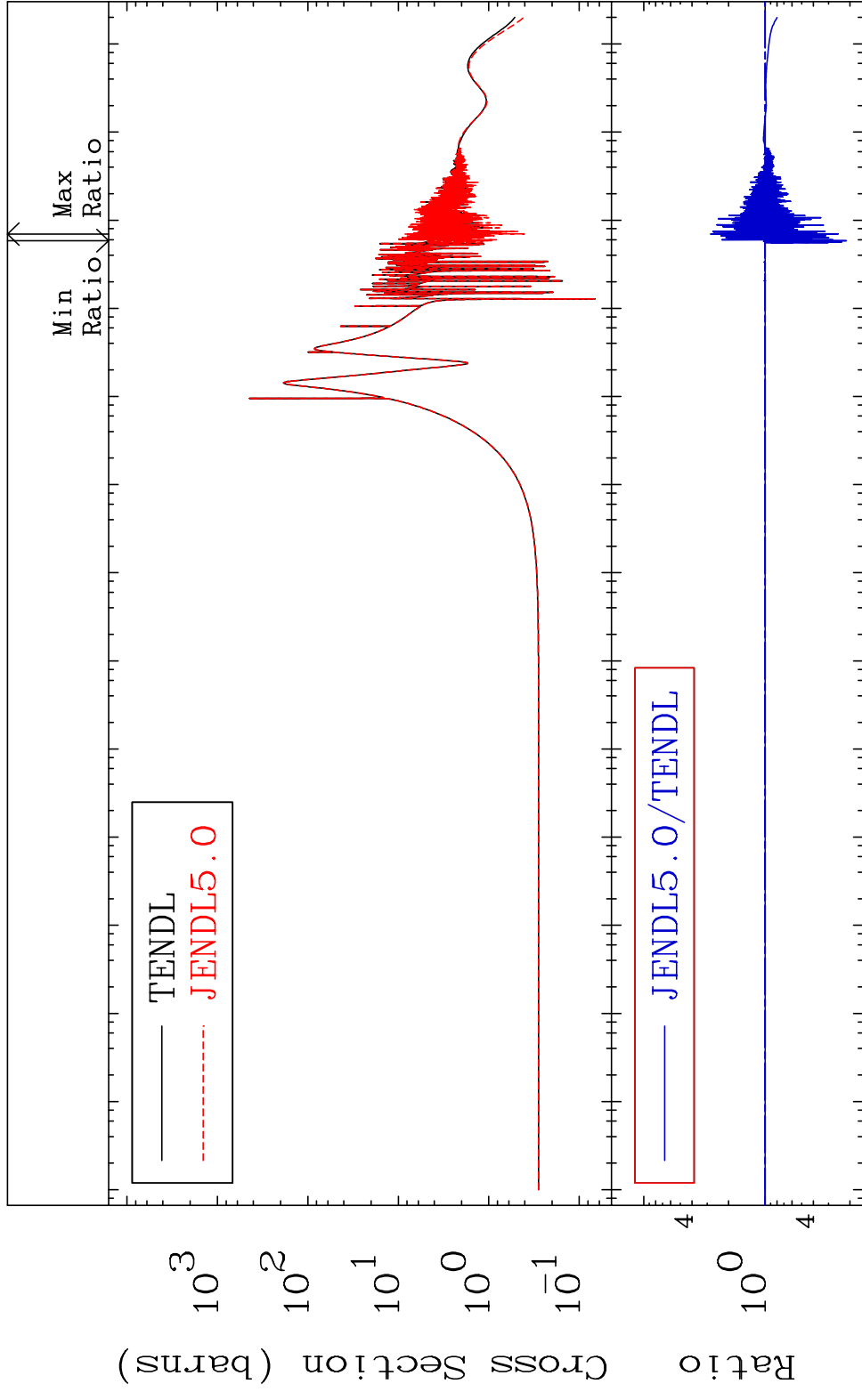
MAT 2843

Elastic

28-Ni-64

Cross Section

-78.56 To 180.9 %



2

Incident Energy (eV)

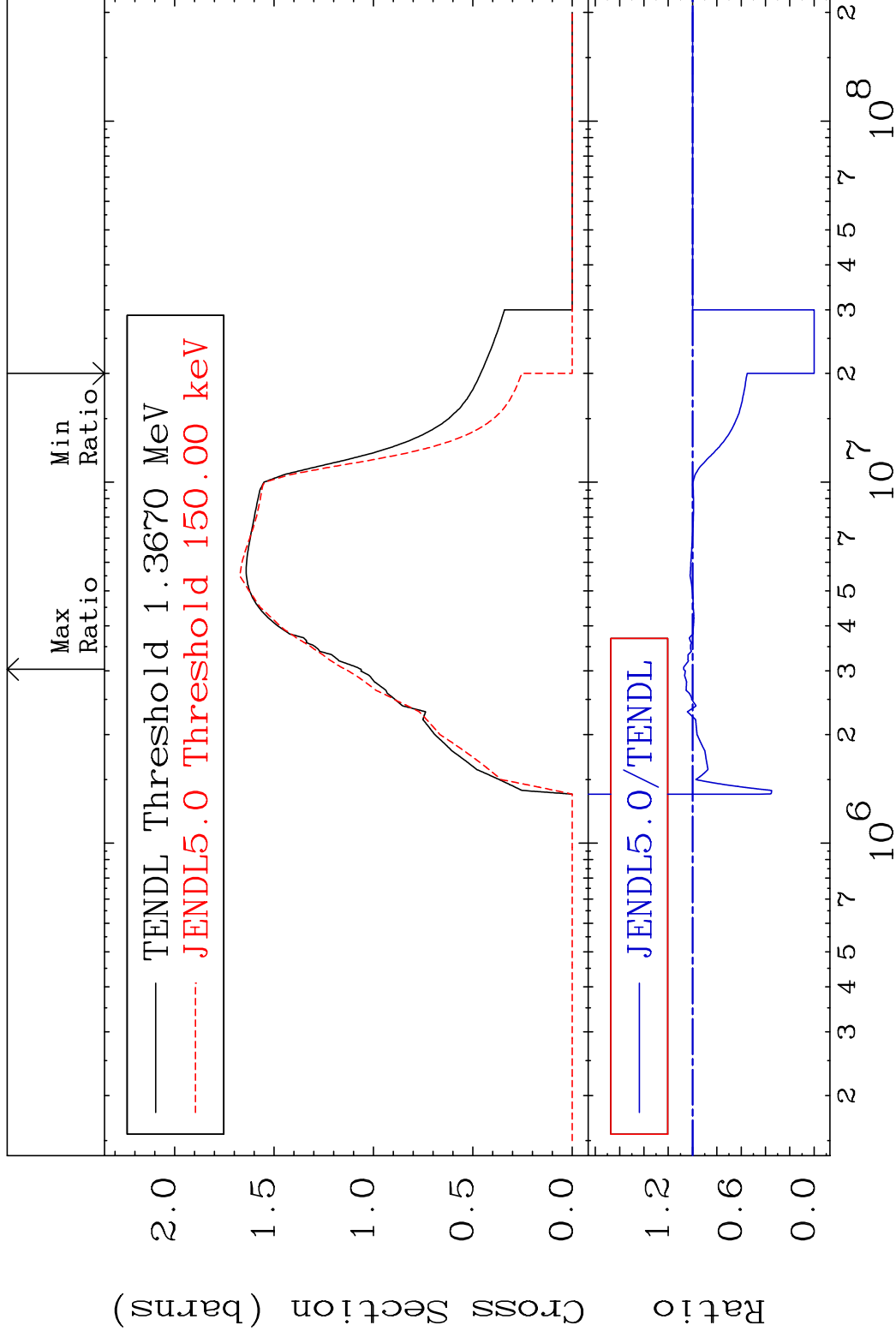
28-Ni-64

MAT 2843

Inelastic

²⁸Ni-64

Cross Section -100.0 To 7.314 %

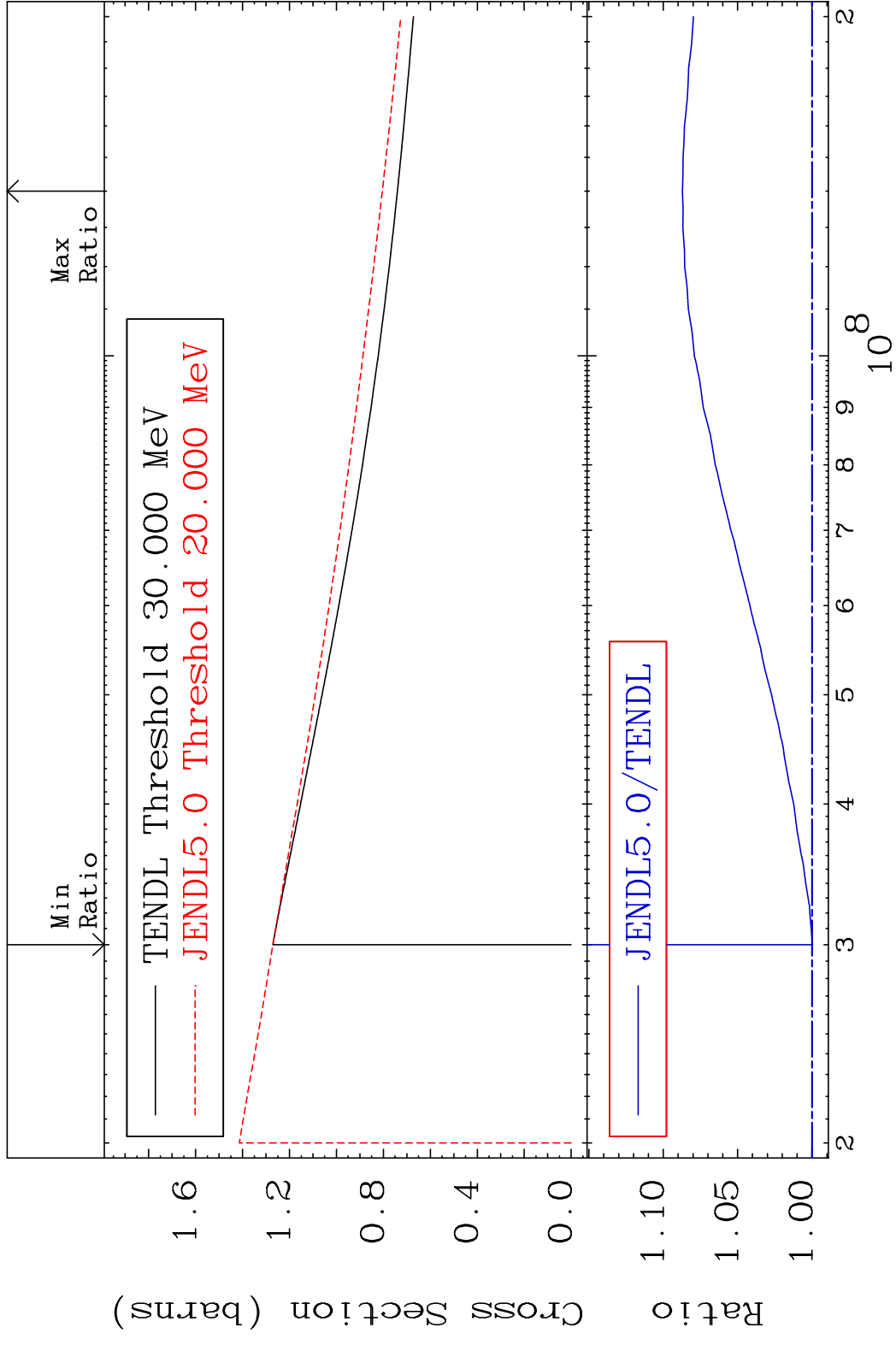


3

Incident Energy (eV)

²⁸Ni-64

MAT 2843 (n, remainder) 28-Ni-64
 Cross Section -0.038 To 8.717 %



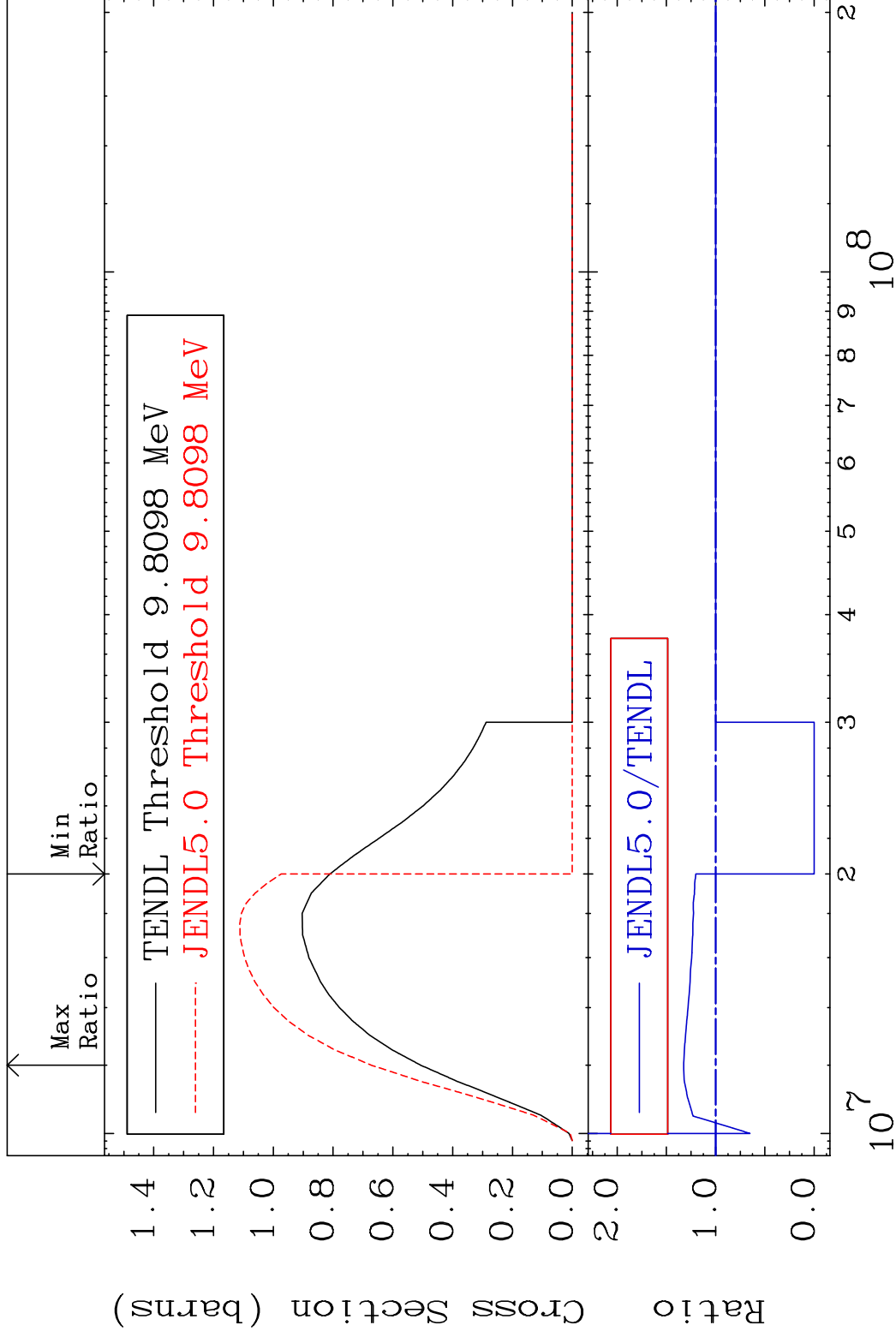
4 Incident Energy (eV) 28-Ni-64

MAT 2843

(n,2n)

28-Ni-64

Cross Section -100.0 To 32.50 %

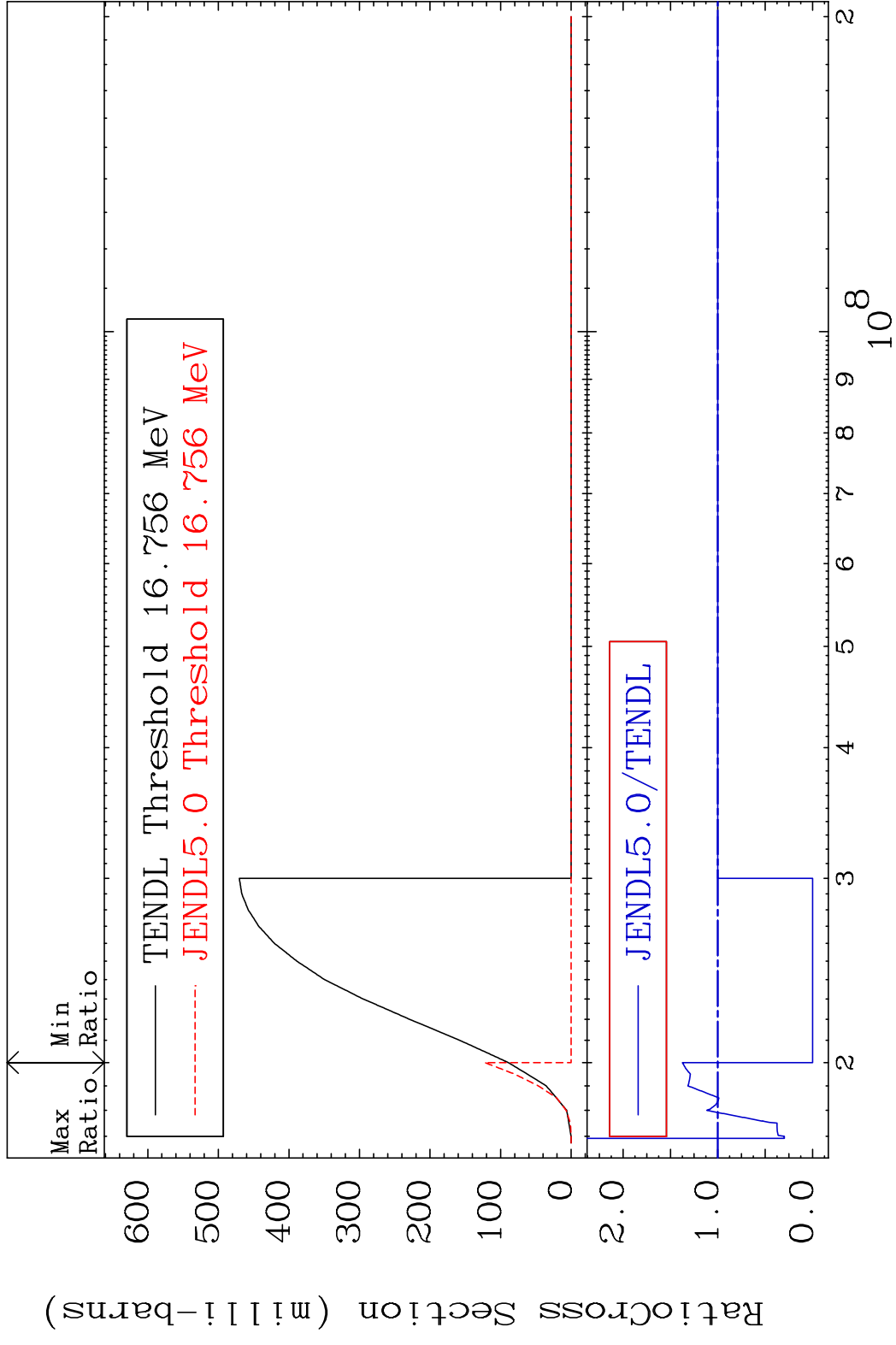


5

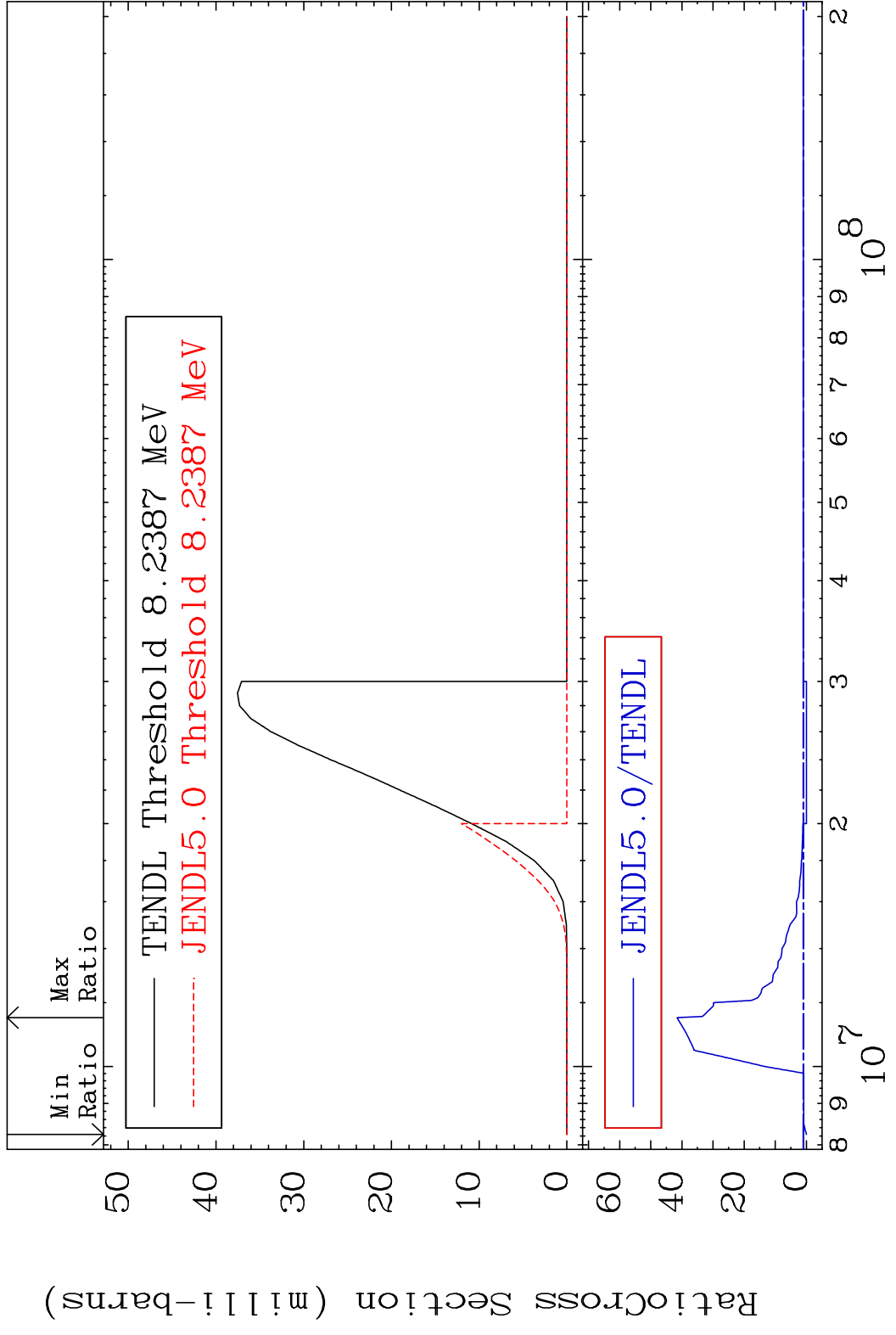
Incident Energy (eV)

28-Ni-64

MAT 2843 (n,3n) 28-Ni-64
 Cross Section -100.0 To 37.42 %



MAT 2843 (n, n') α 28-Ni-64
 Cross Section -100.0 To 4051. %



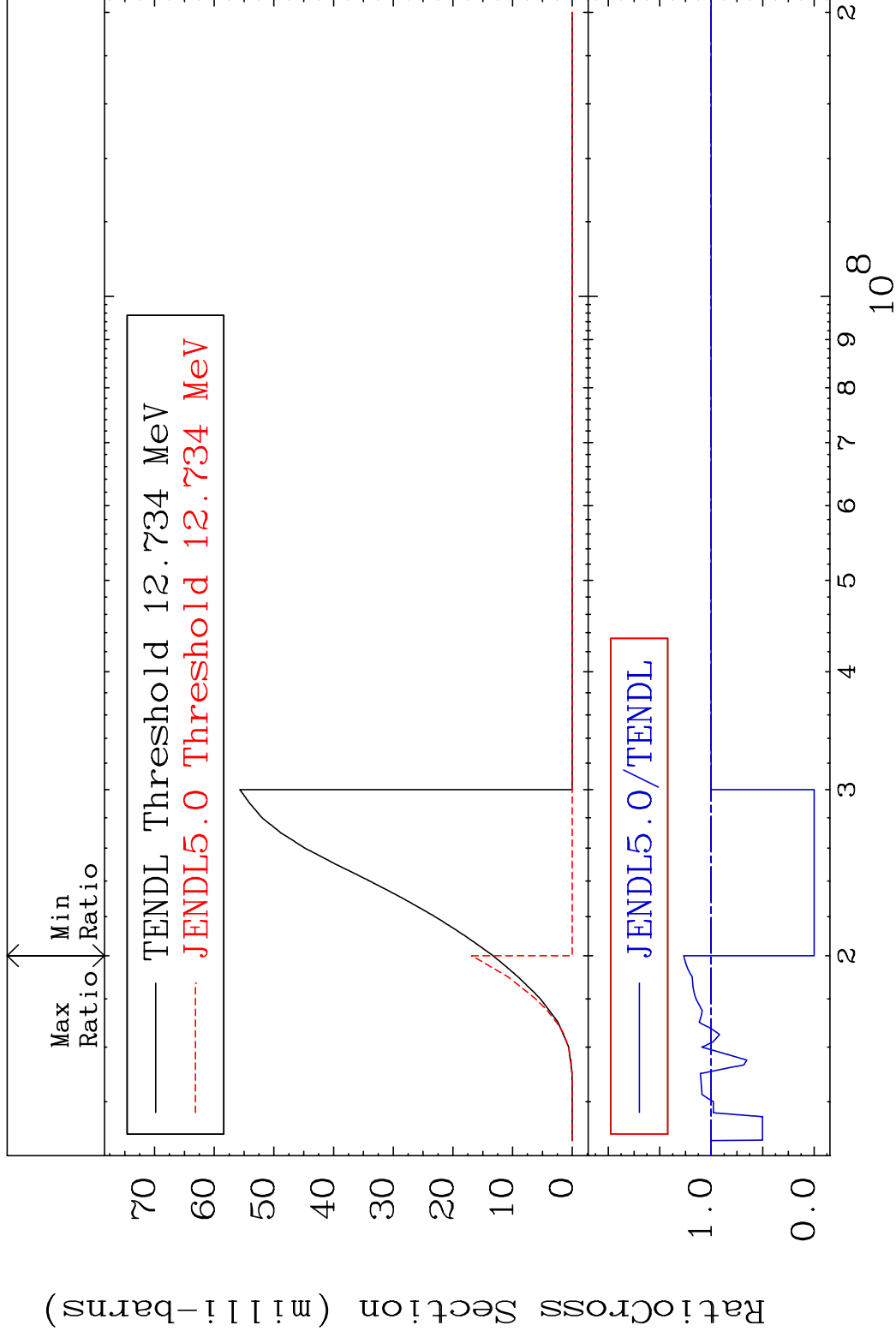
7 Incident Energy (eV) 28-Ni-64

MAT 2843

(n, n') p

28-Ni-64

Cross Section -100.0 To 26.77 %

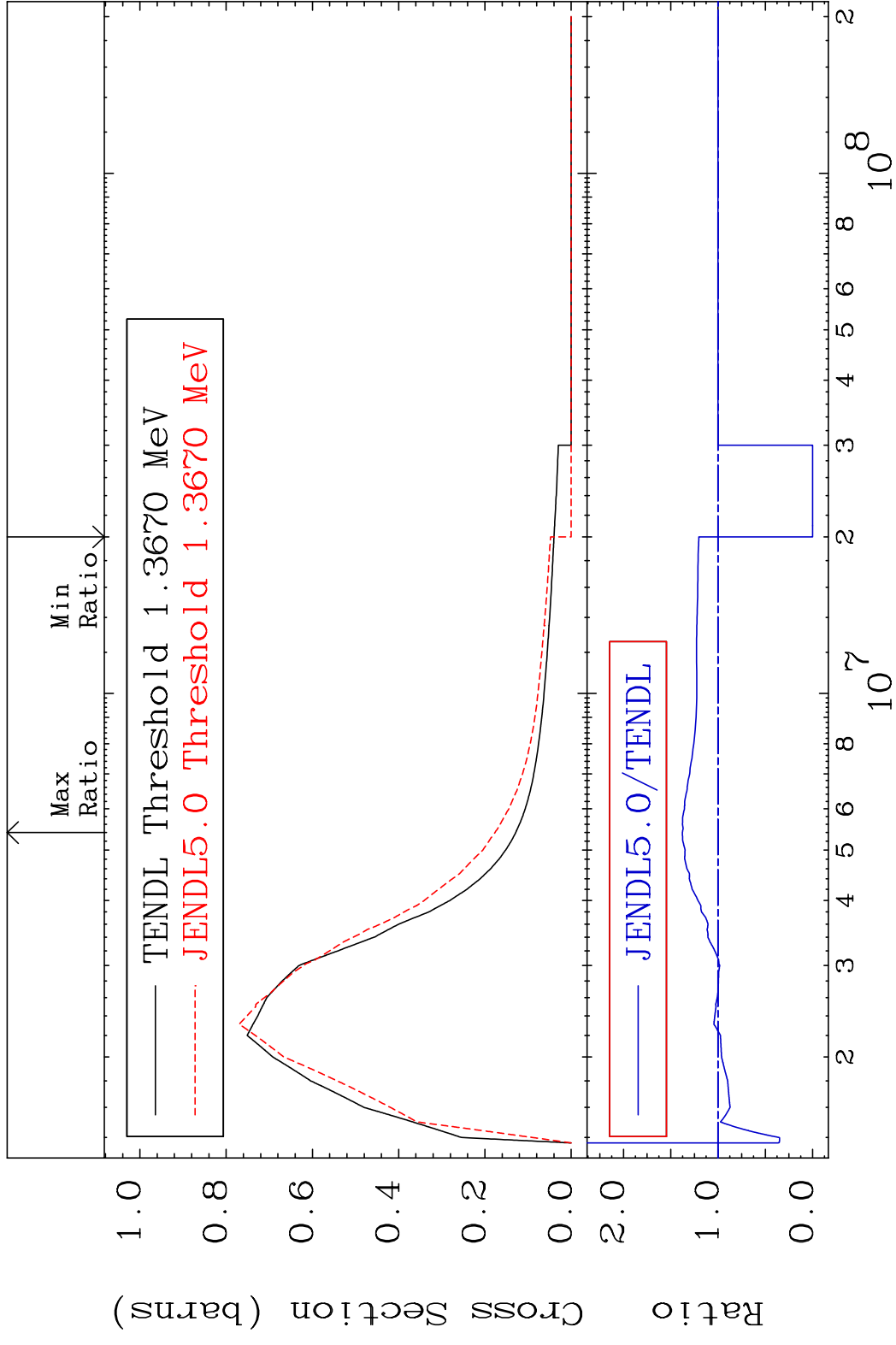


8

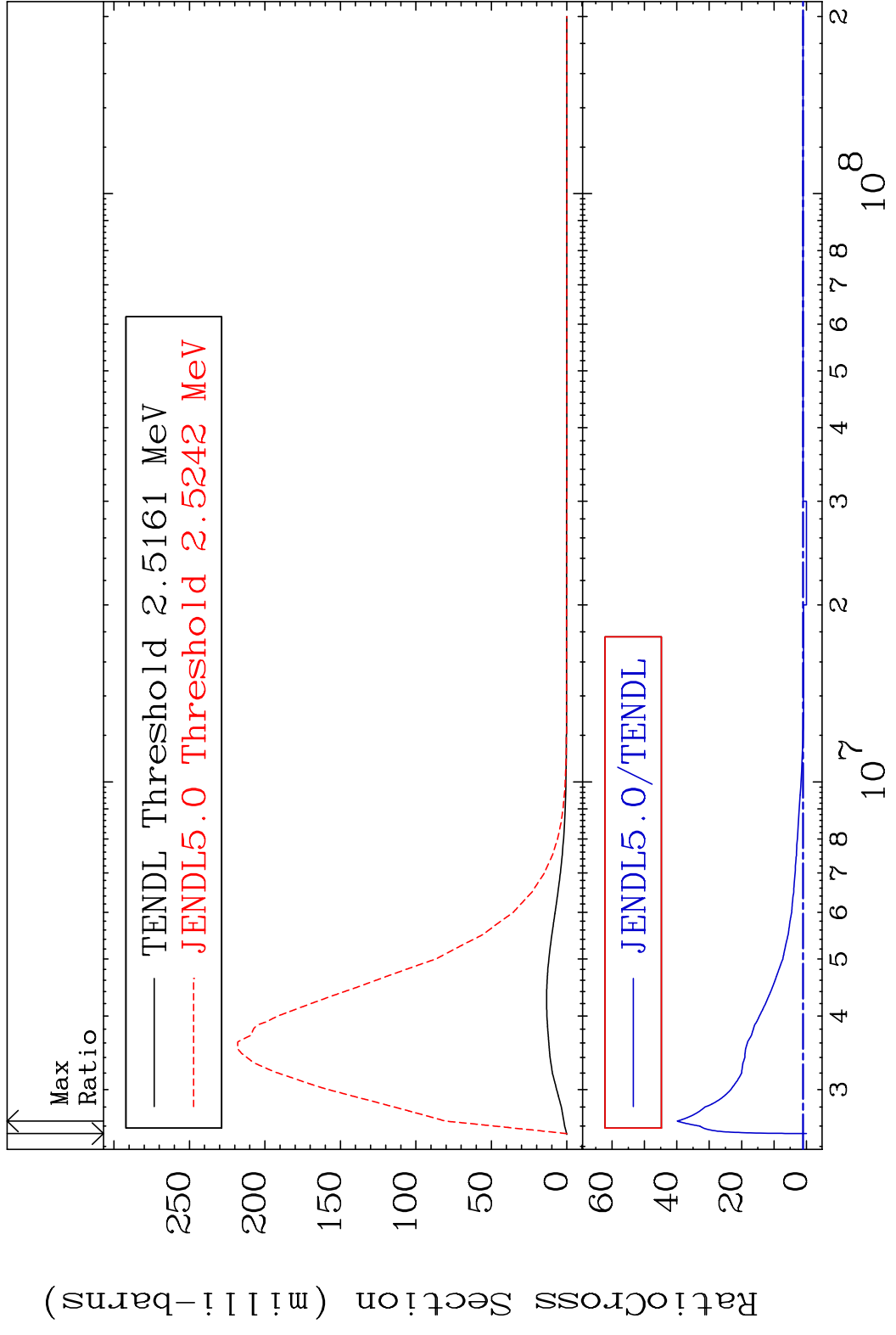
Incident Energy (eV)

28-Ni-64

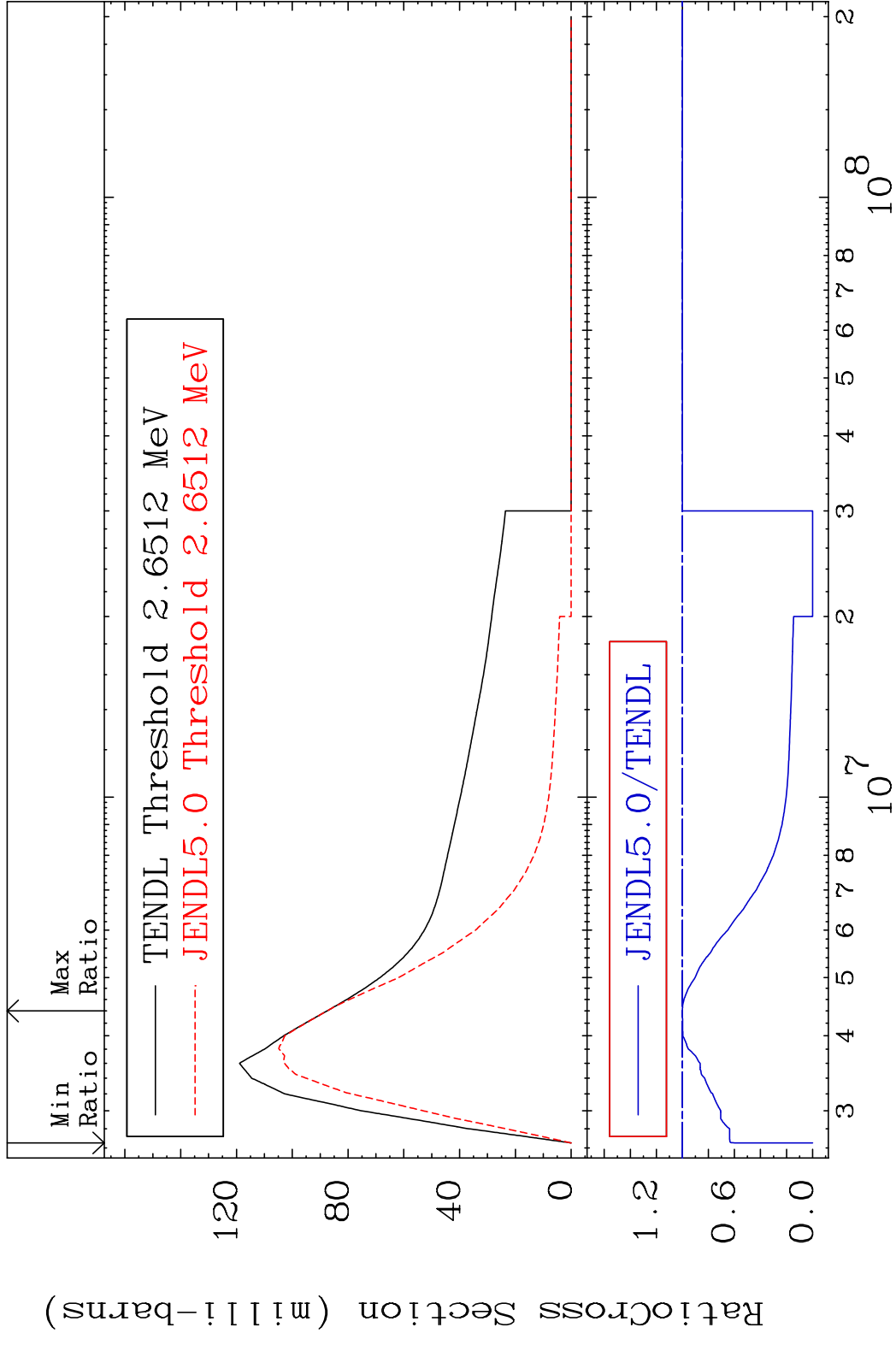
MAT 2843 MT= 51 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 37.73 %



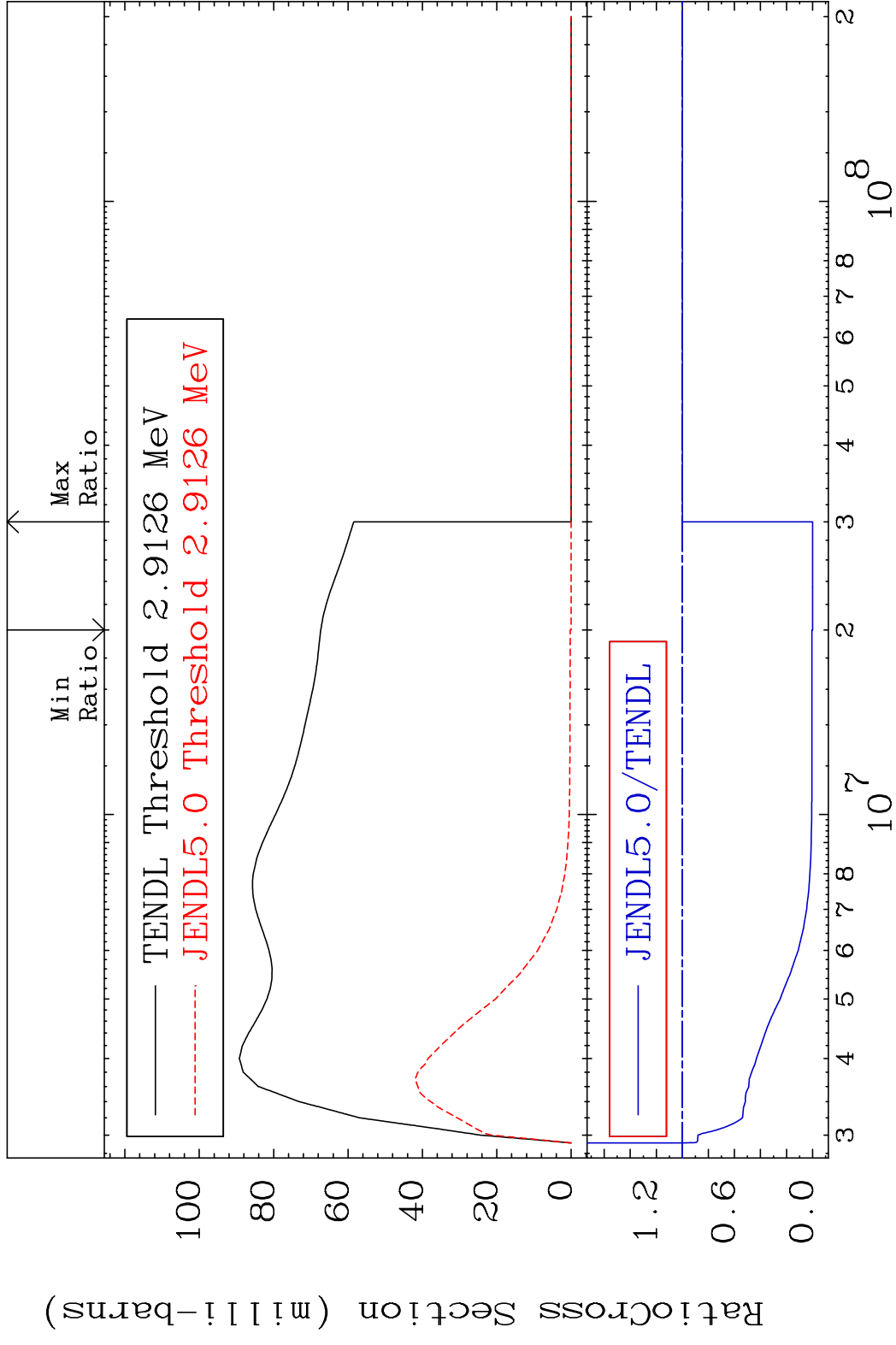
MAT 2843 MT= 53 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 3889. %



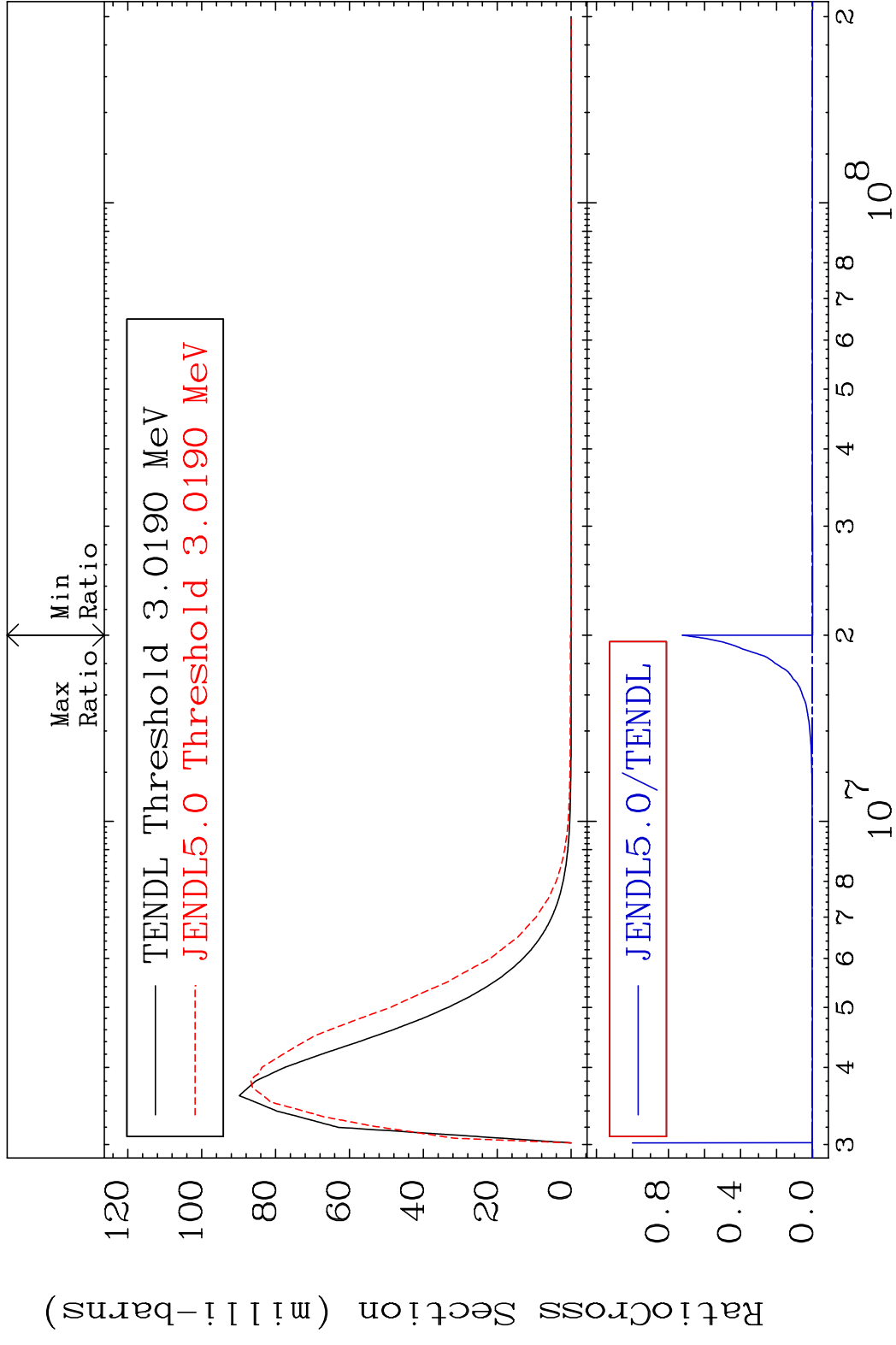
MAT 2843 MT= 54 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 0.021 %



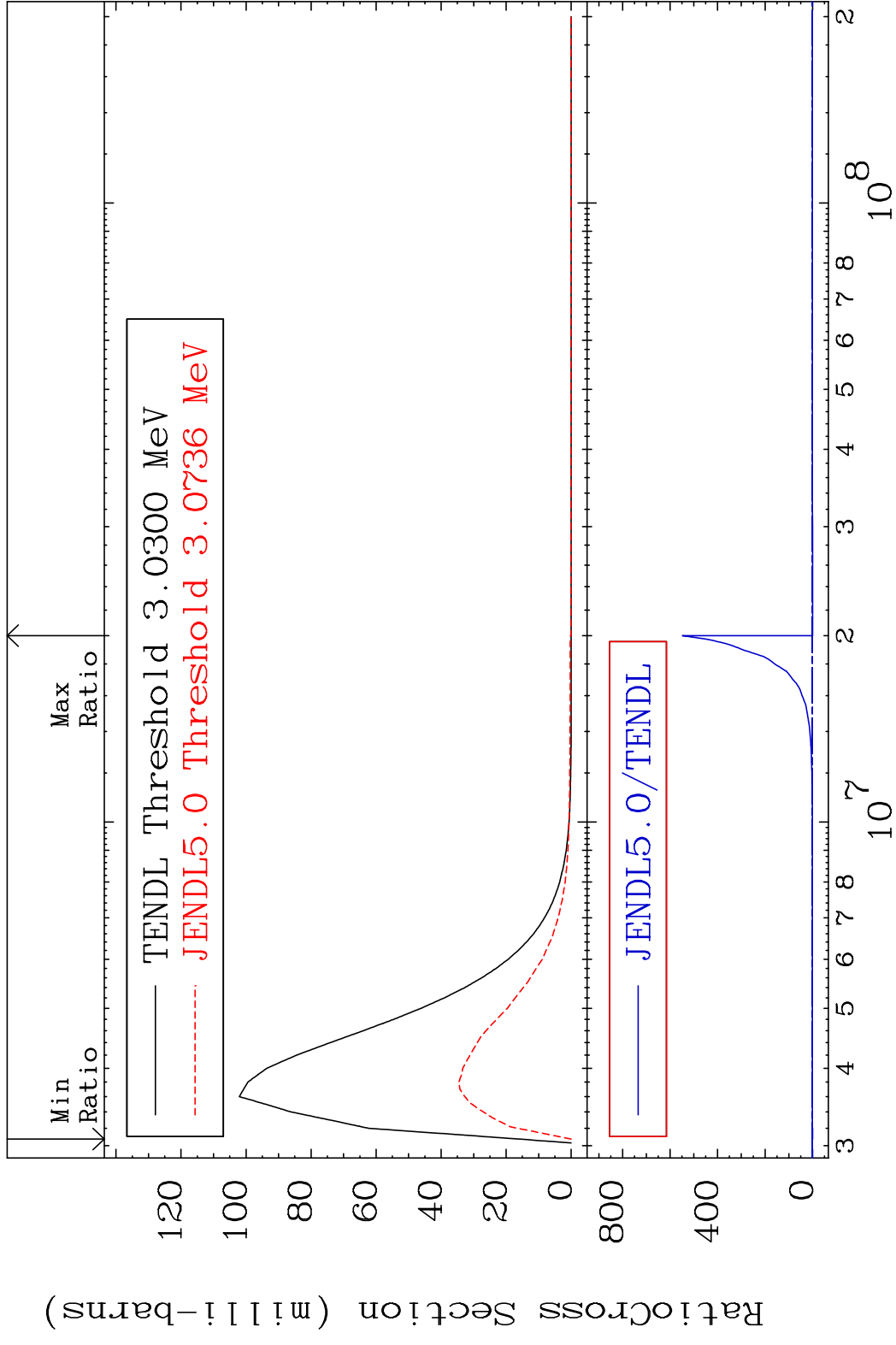
MAT 2843 MT= 55 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 0.000 %



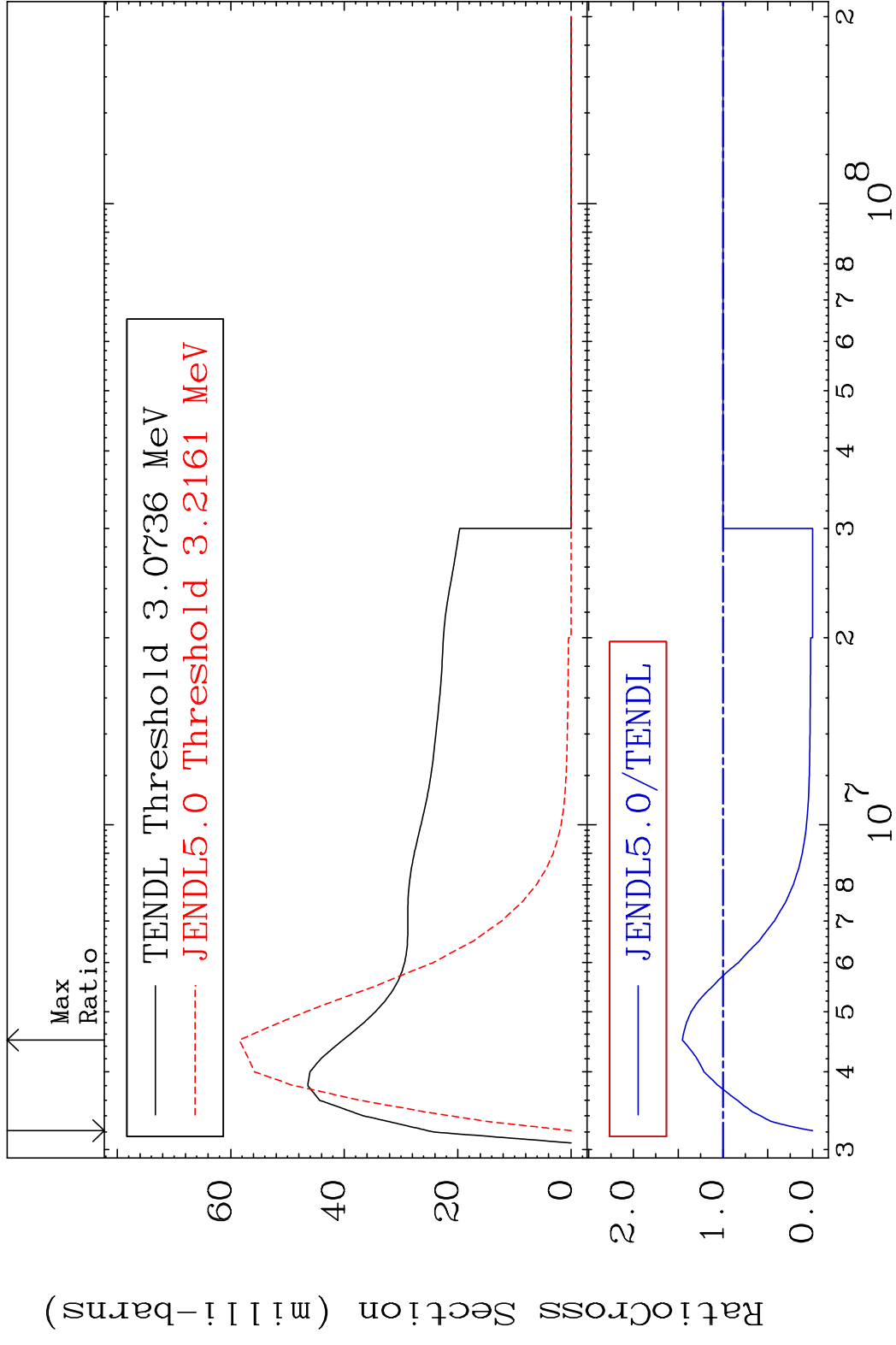
MAT 2843 MT= 56 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 9999. %



MAT 2843 MT= 57 (n,n') Level 28-Ni-64
 Cross Section -100.0 To 9999. %

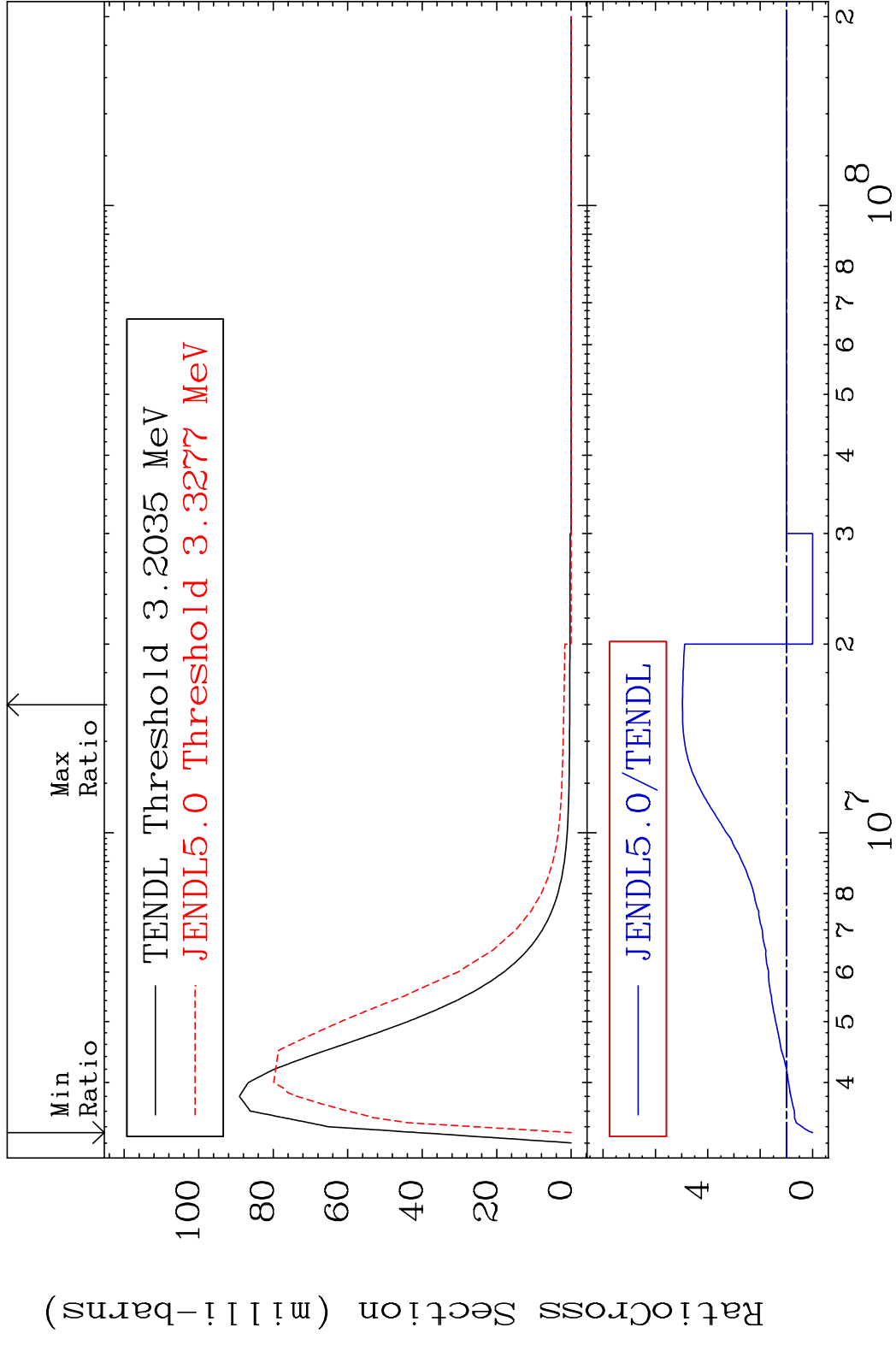


MAT 2843 MT= 58 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 45.34 %

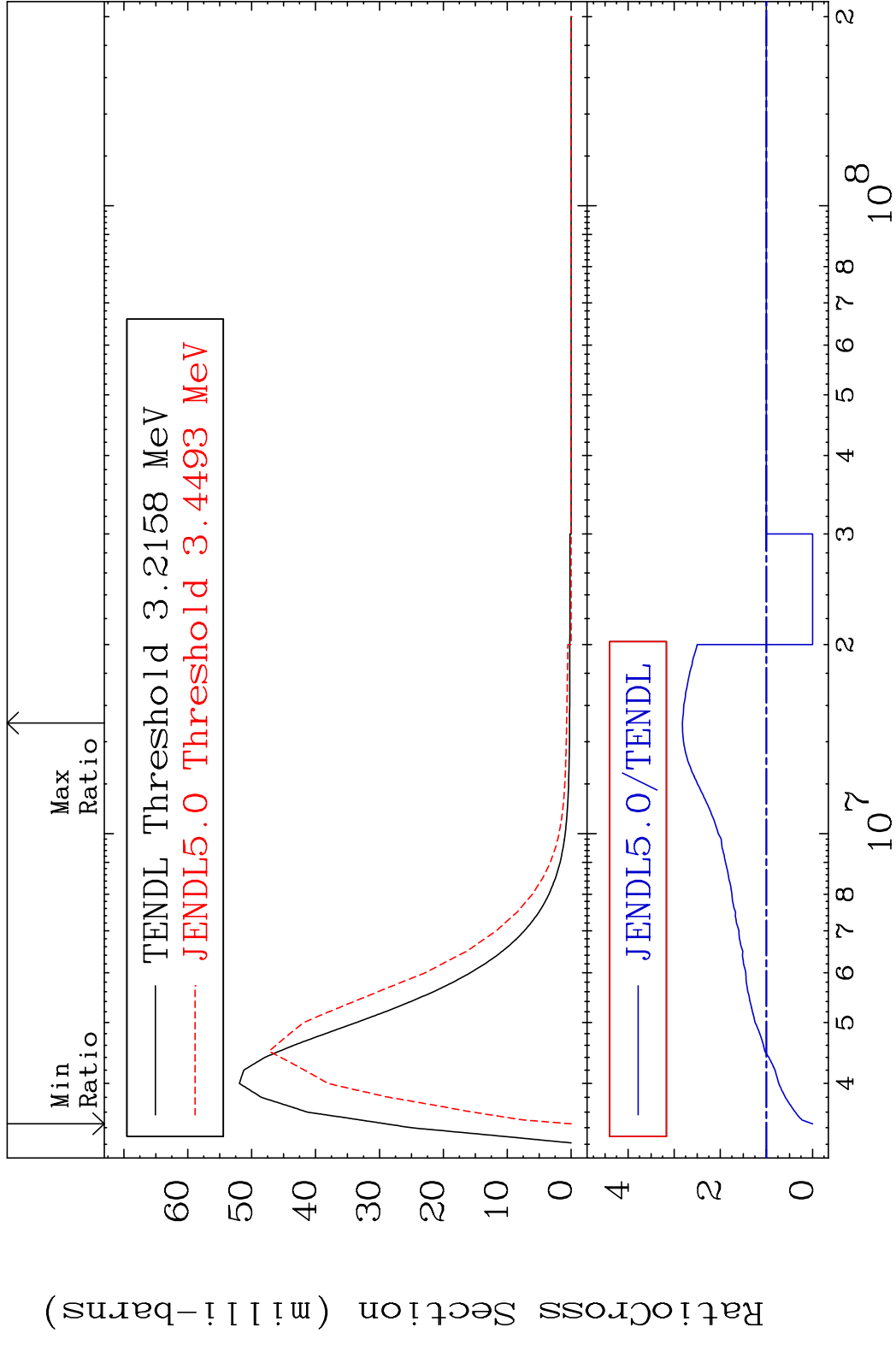


16 Incident Energy (eV) 28-Ni-64

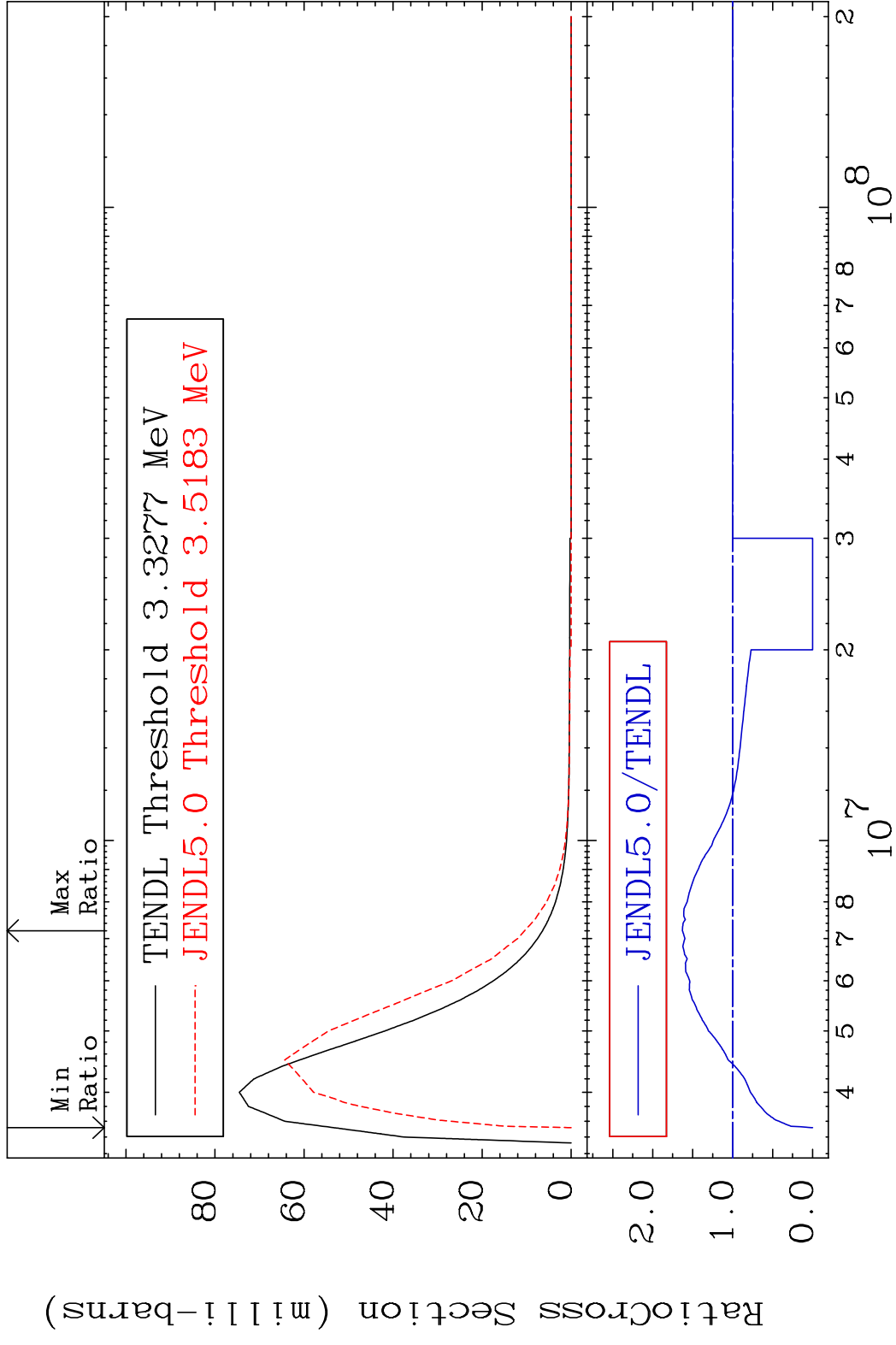
MAT 2843 MT= 59 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 397.2 %



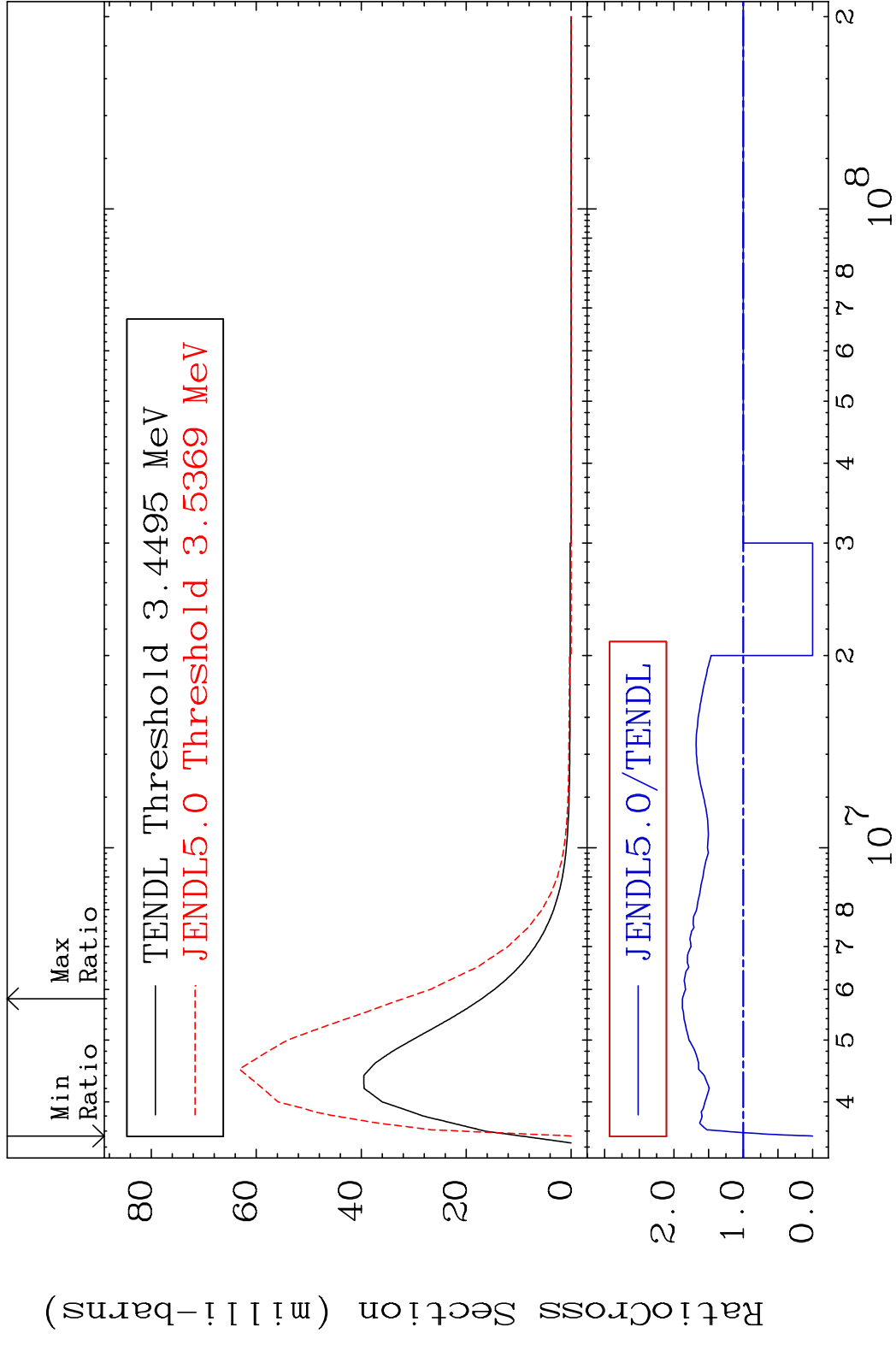
MAT 2843 MT= 60 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 182.2 %



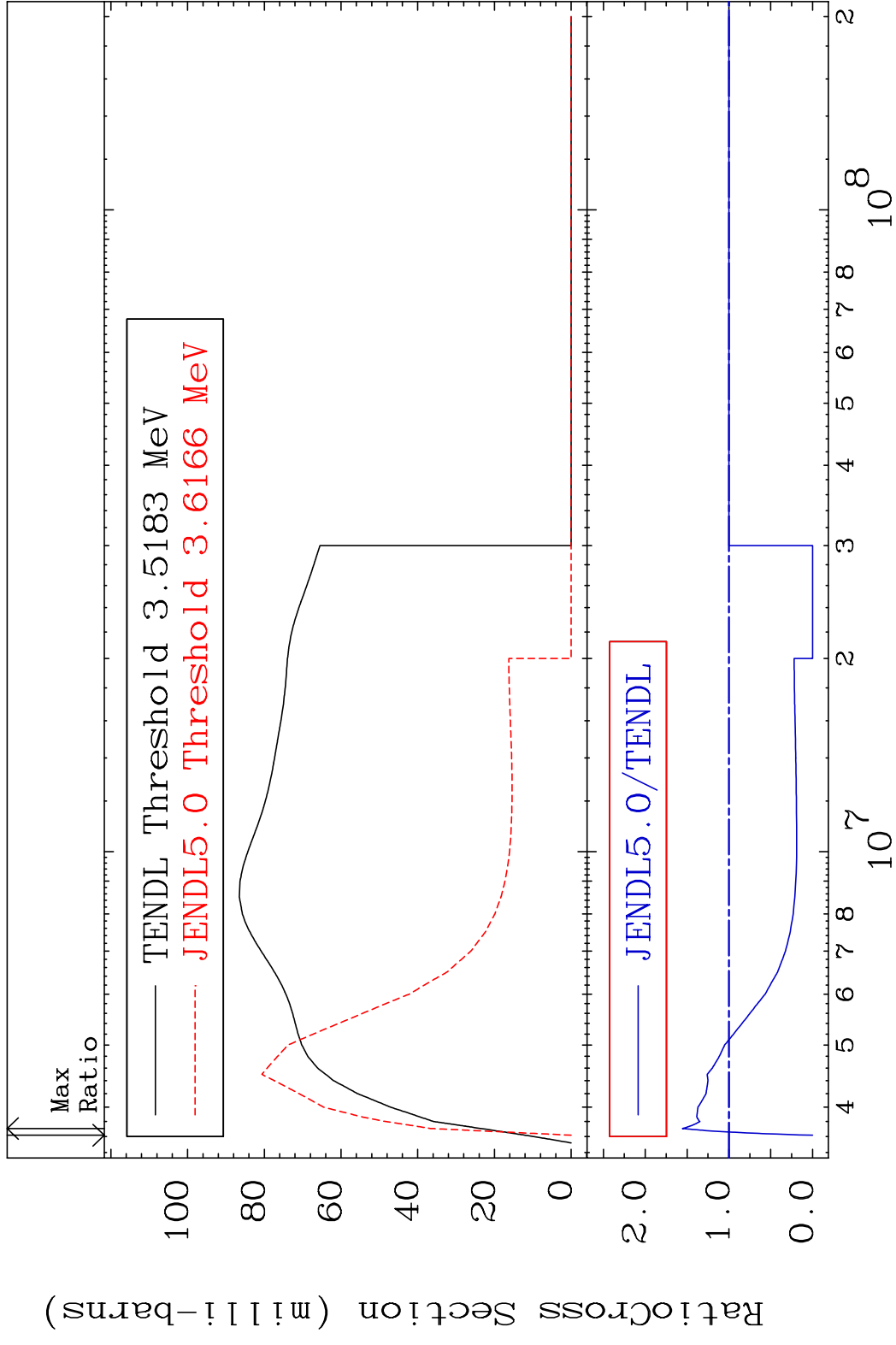
MAT 2843 MT= 61 (n,n') Level 28-Ni-64
 Cross Section -100.0 To 62.90 %



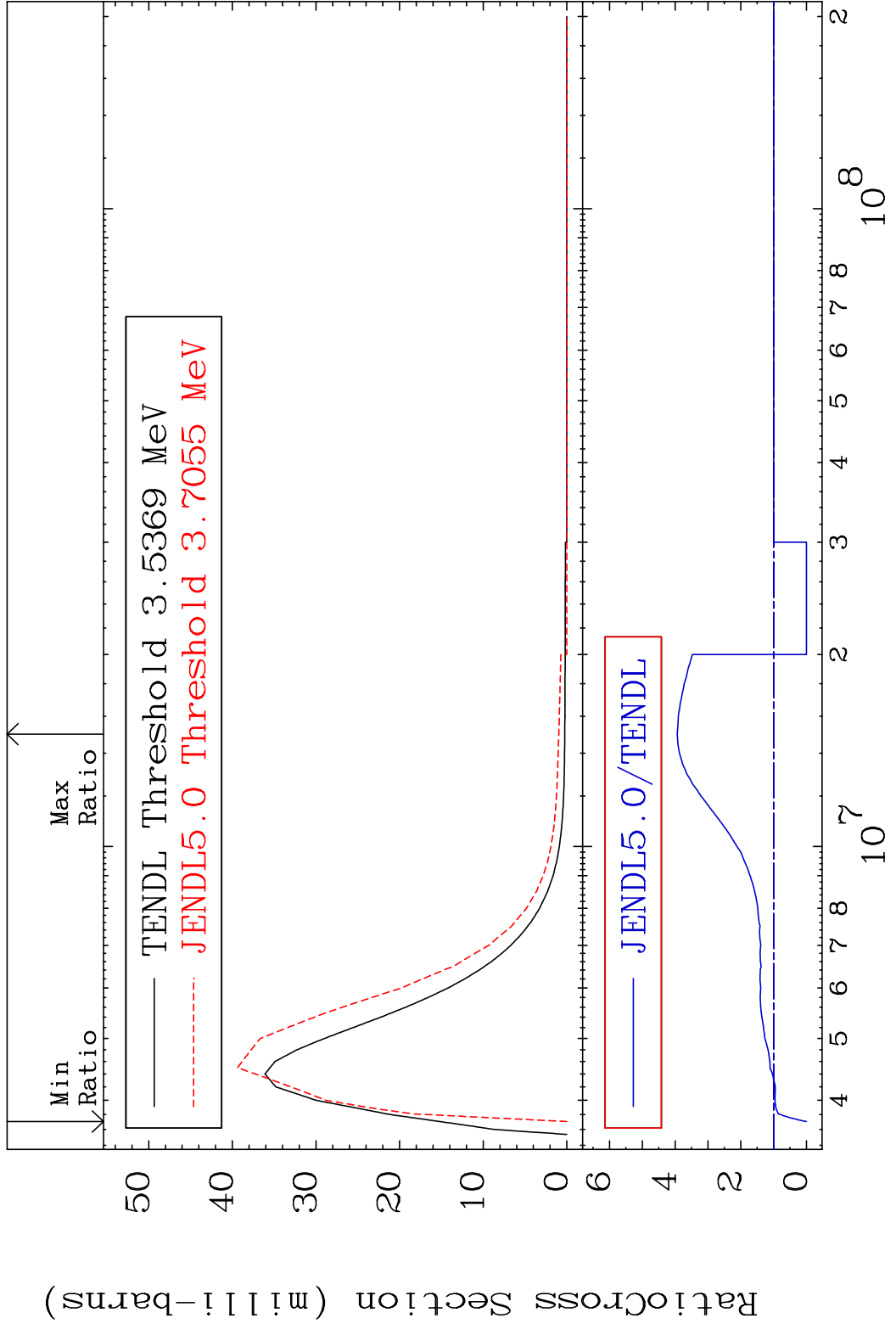
MAT 2843 MT= 62 (n,n') Level 28-Ni-64
 Cross Section -100.0 To 87.80 %



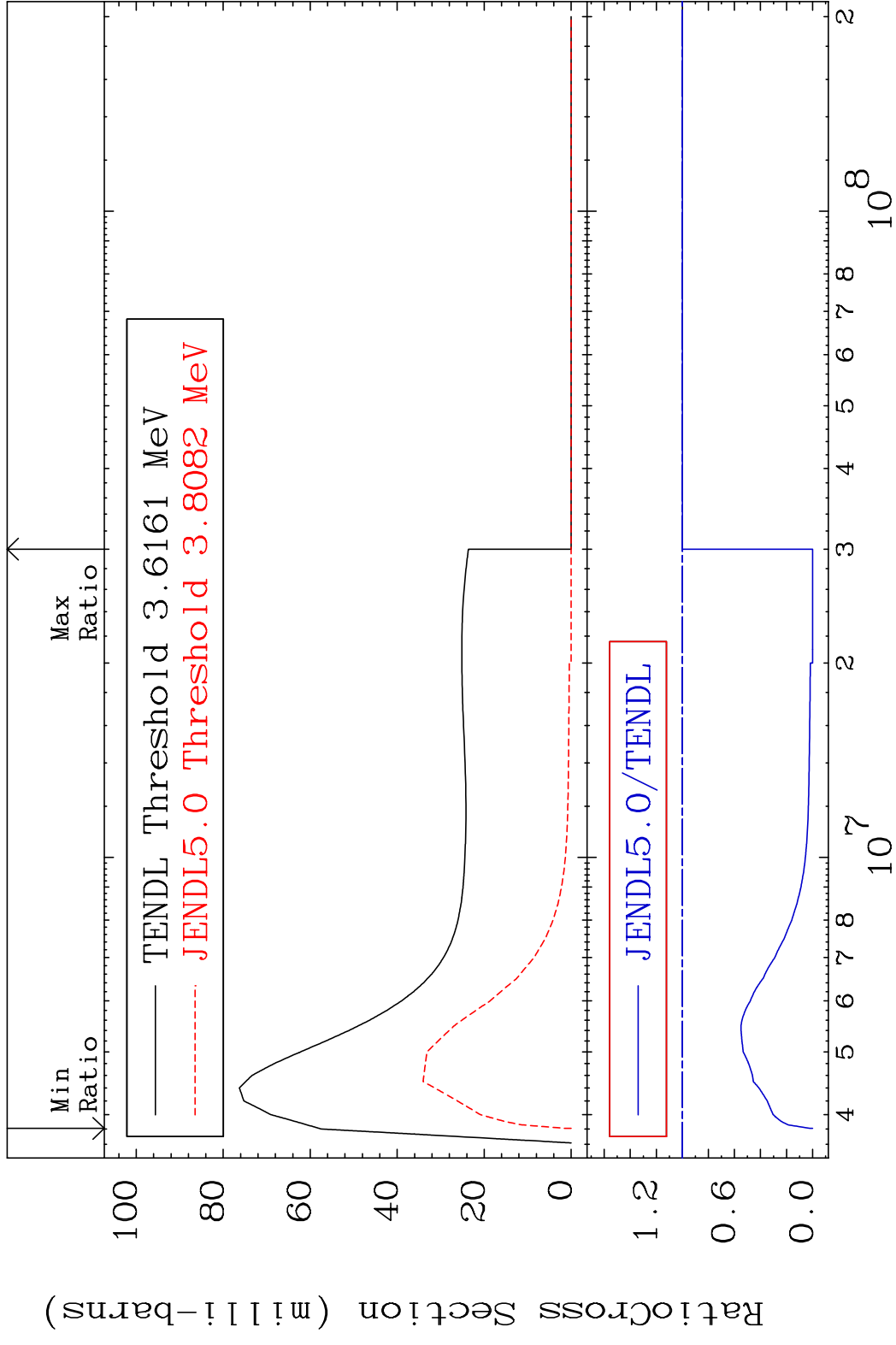
MAT 2843 MT= 63 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 55.64 %



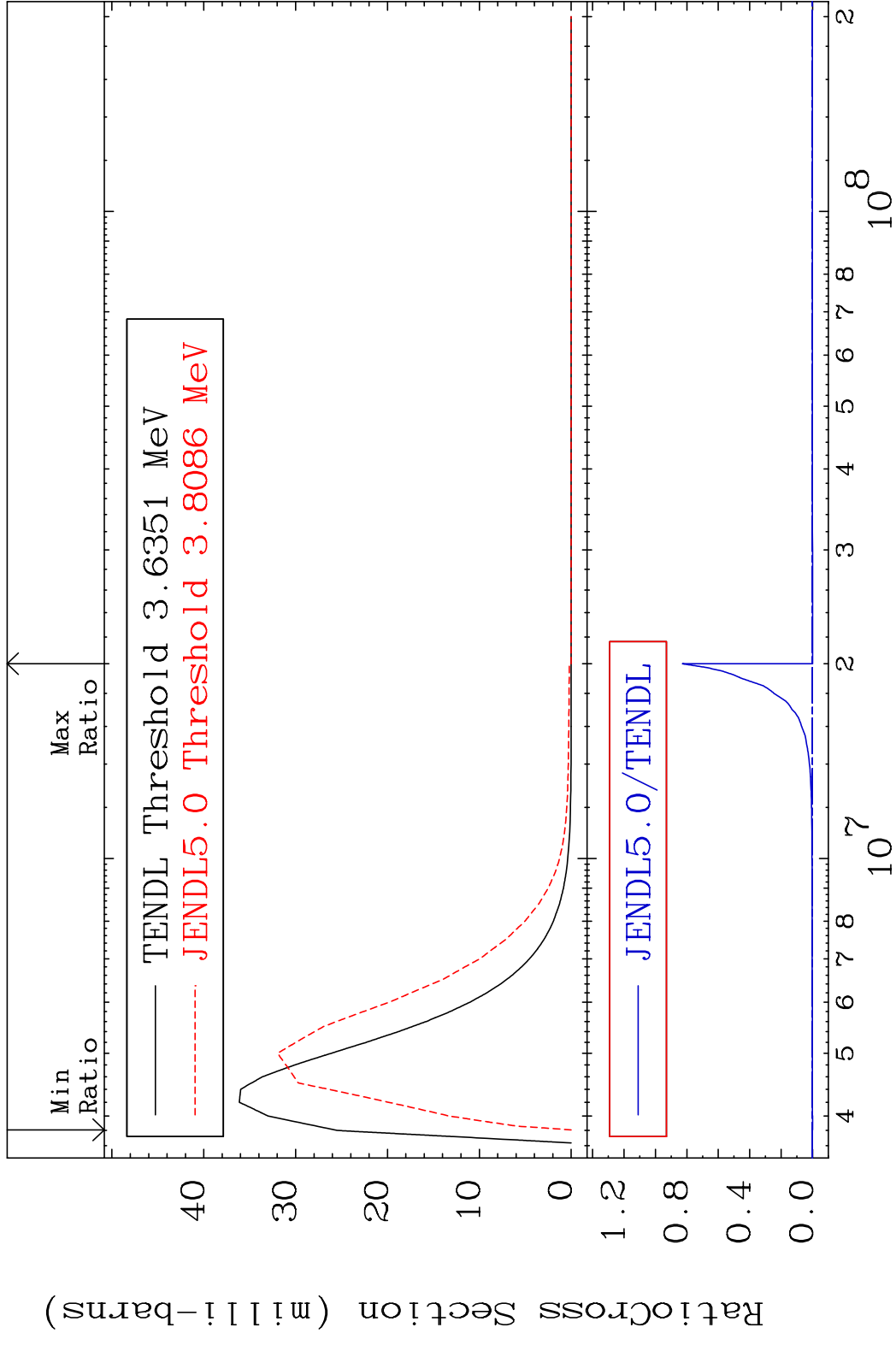
MAT 2843 MT= 64 (n,n') Level 28-Ni-64
 Cross Section -100.0 To 293.8 %



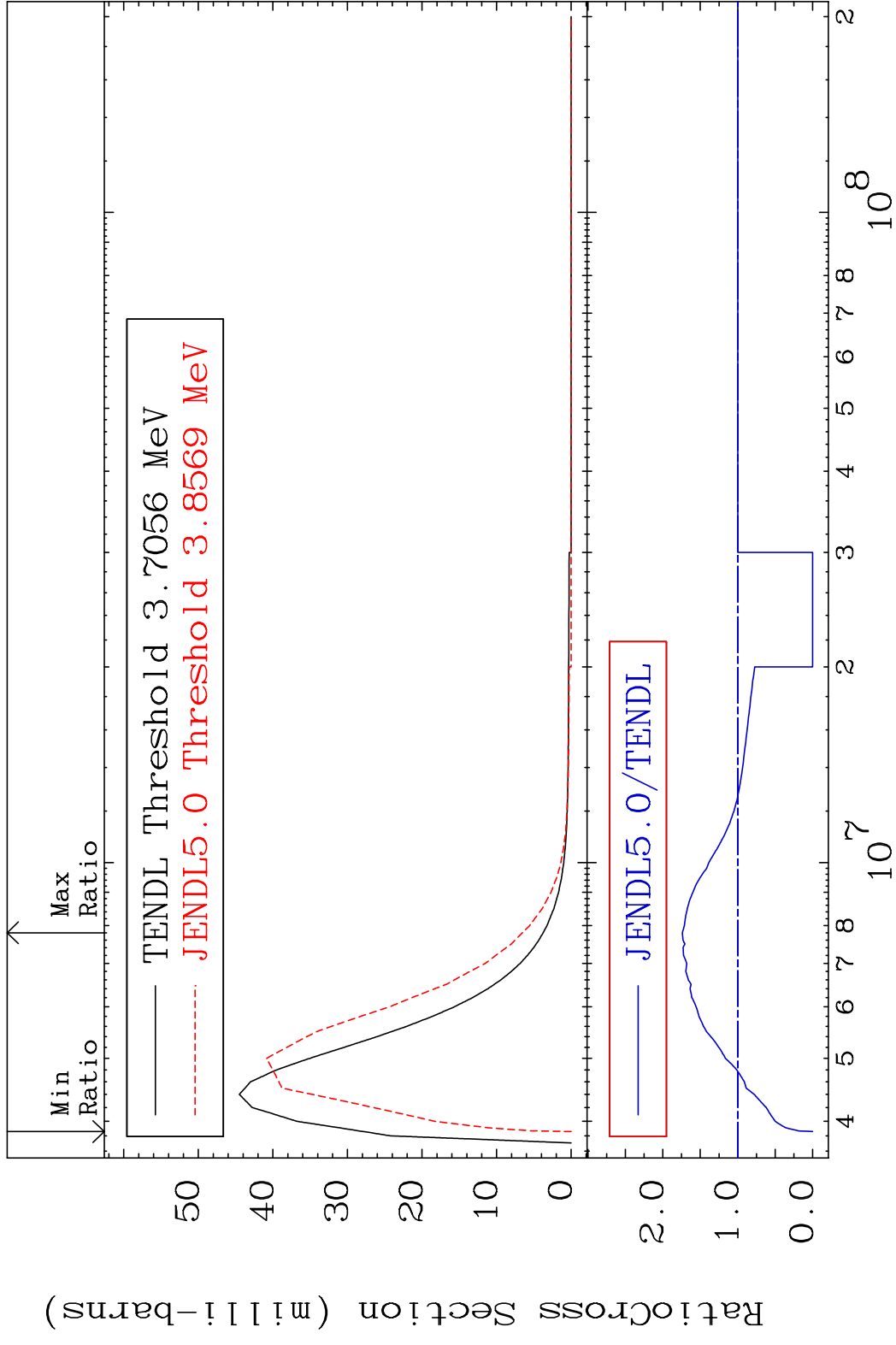
MAT 2843 MT= 65 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 0.000 %



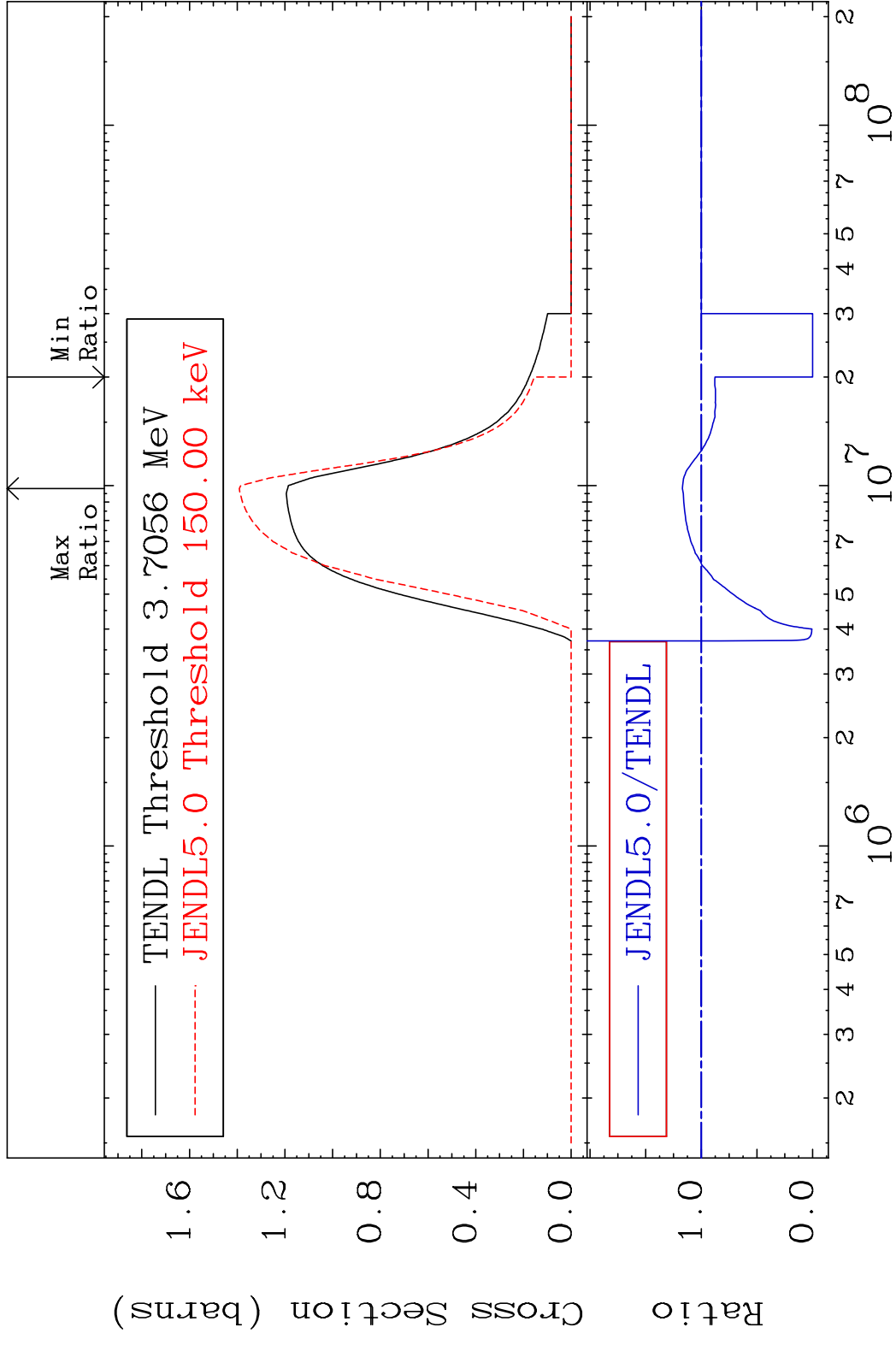
MAT 2843 MT= 66 (n,n') Level 28-Ni-64
 Cross Section -100.0 To 9999. %



MAT 2843 MT= 67 (n,n') Level 28-Ni-64
 Cross Section -100.0 To 73.96 %



MAT 2843 (n,n') Continuum ²⁸Ni-64
 Cross Section -100.0 To 17.02 %

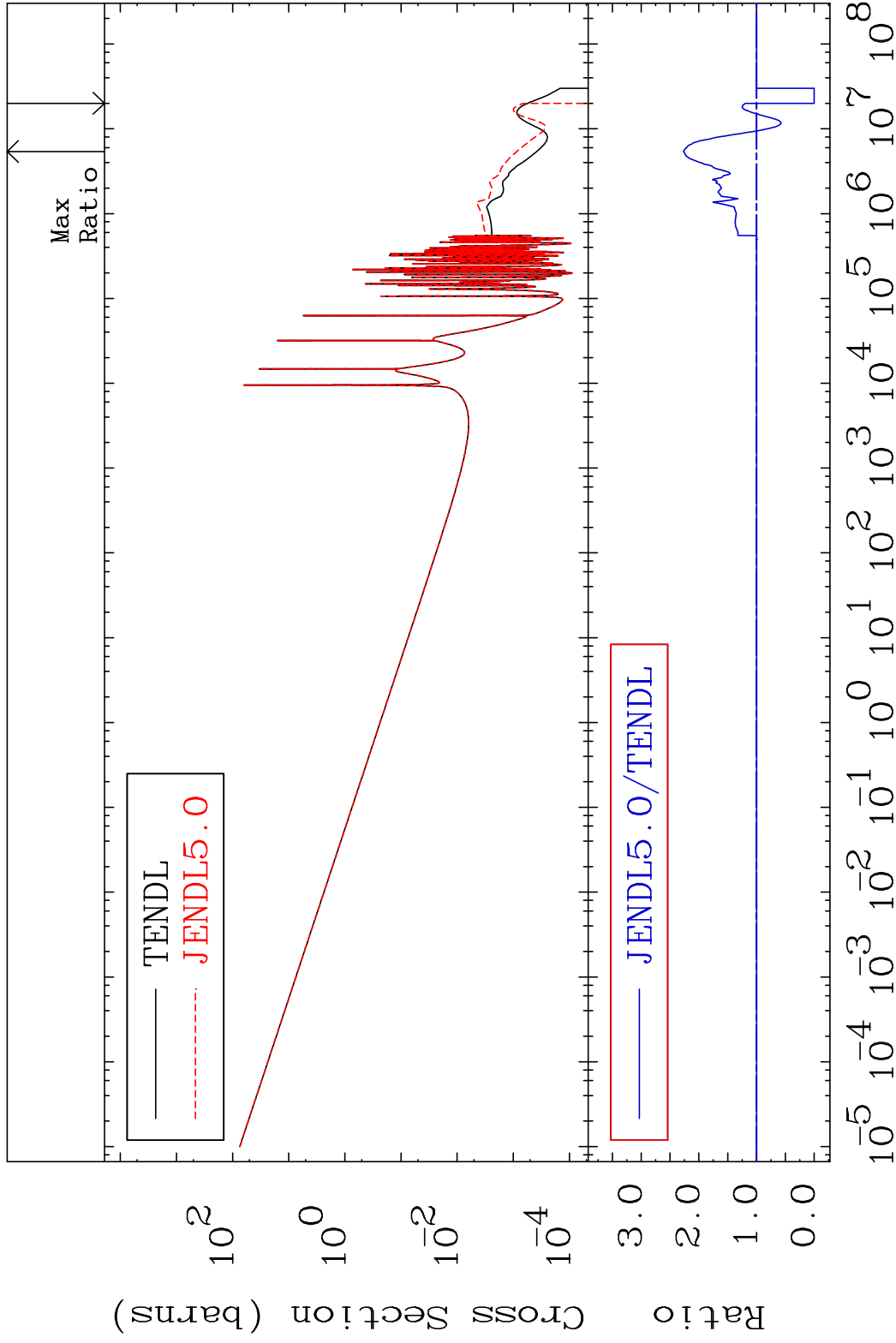


MAT 2843

(n, γ)

28-Ni-64

Cross Section -100.0 To 126.4 %

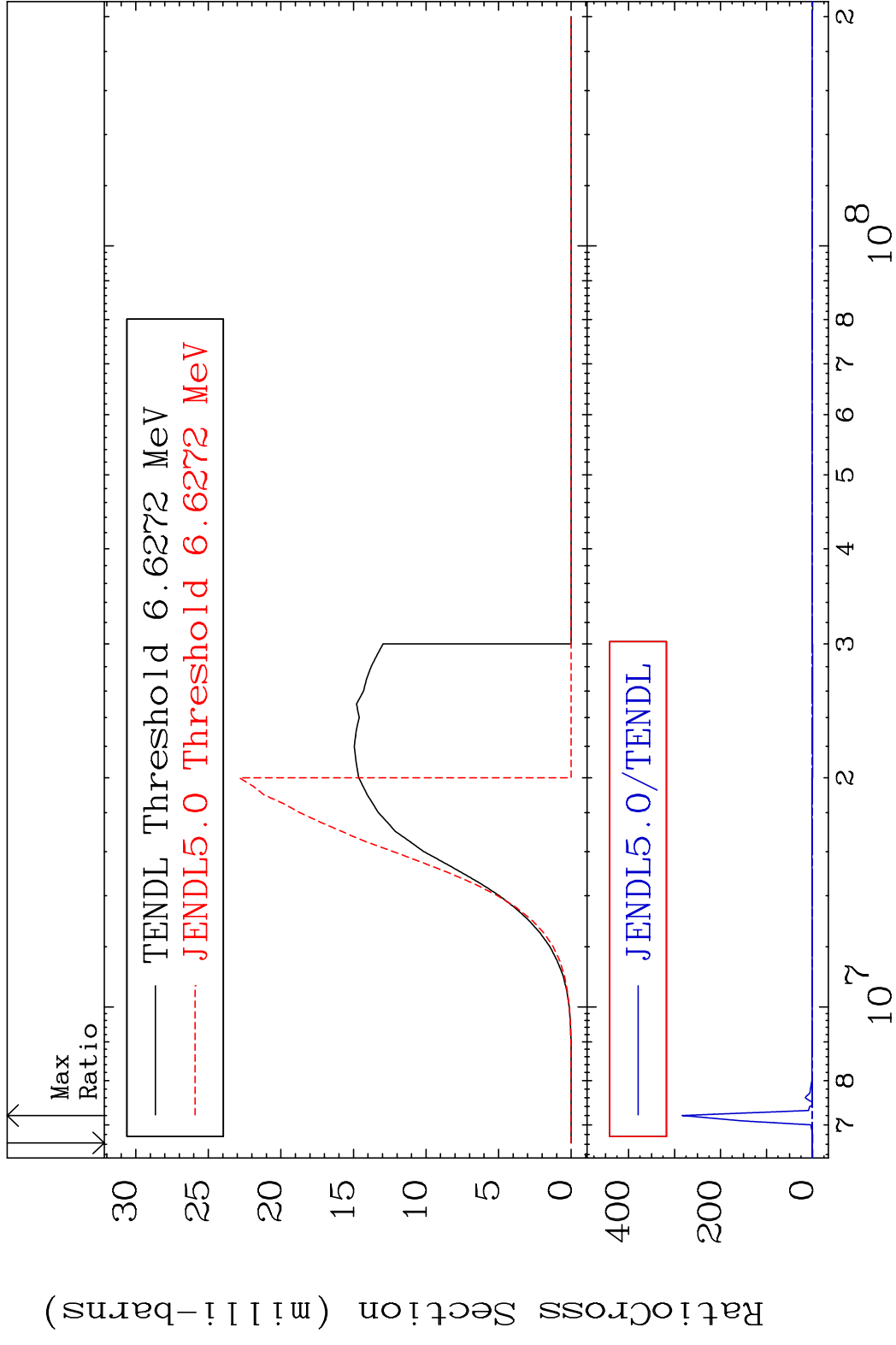


27

Incident Energy (eV)

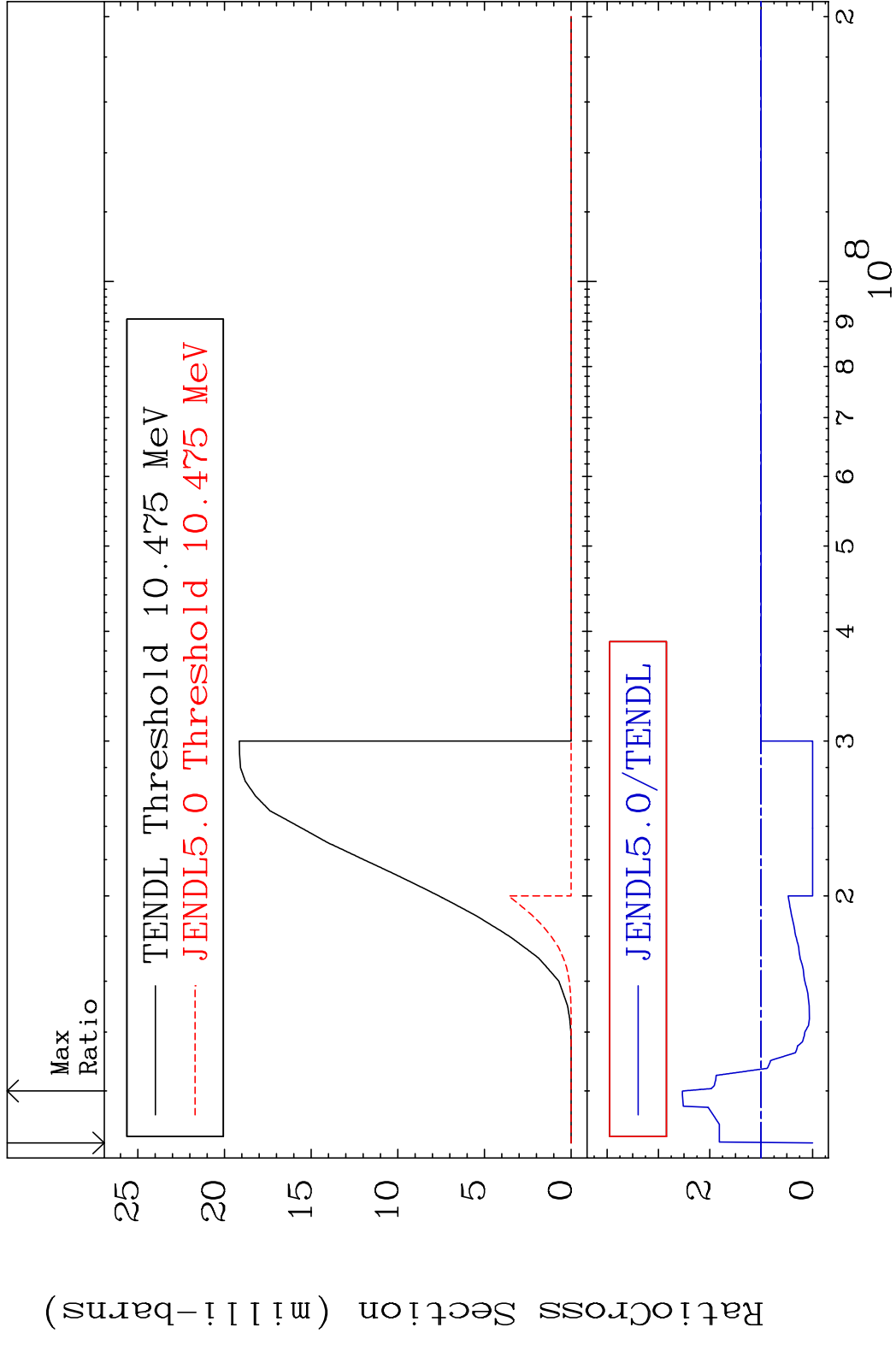
28-Ni-64

MAT 2843 (n,p) 28-Ni-64
 Cross Section -100.0 To 9999. %

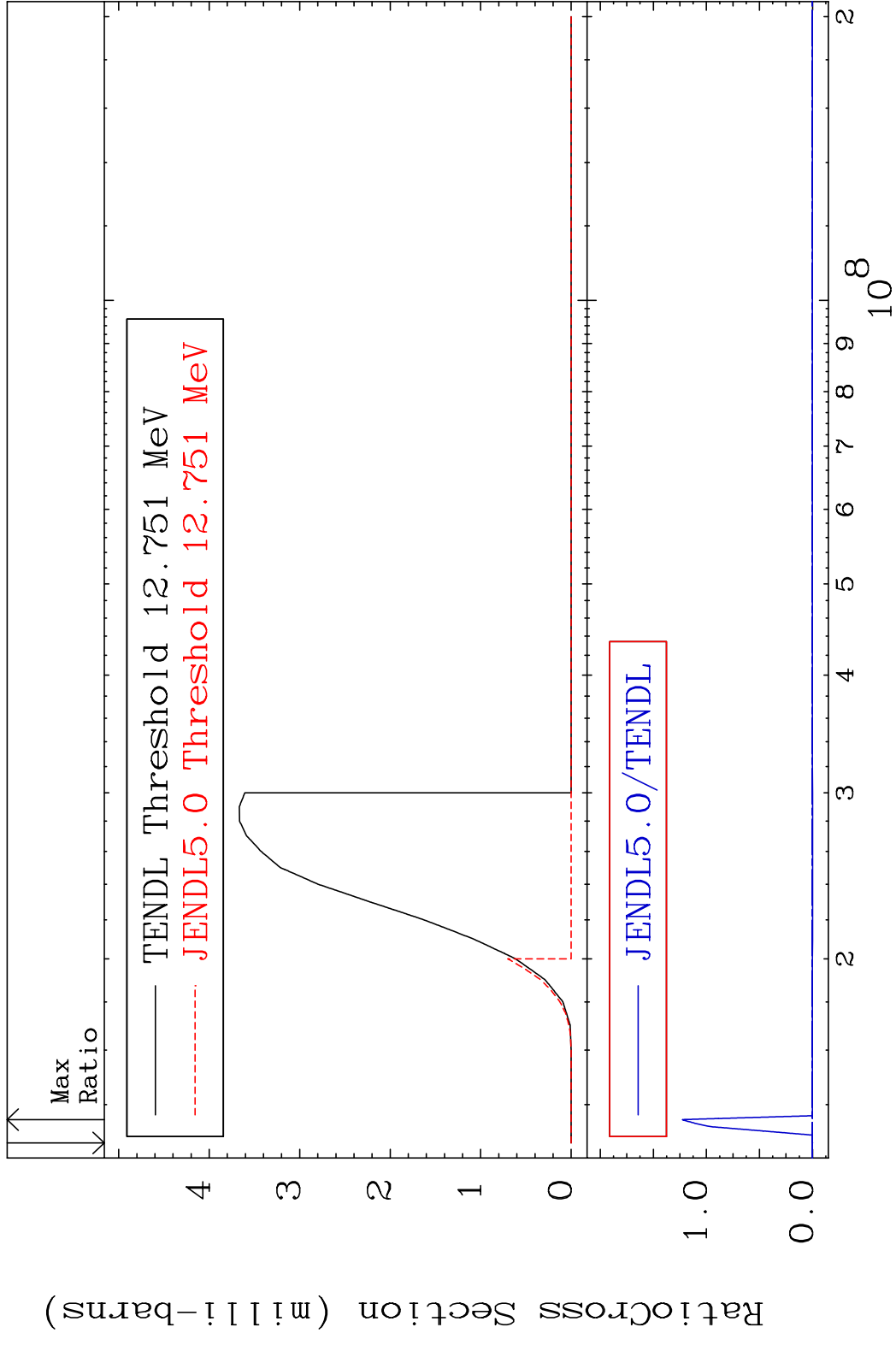


28 28-Ni-64

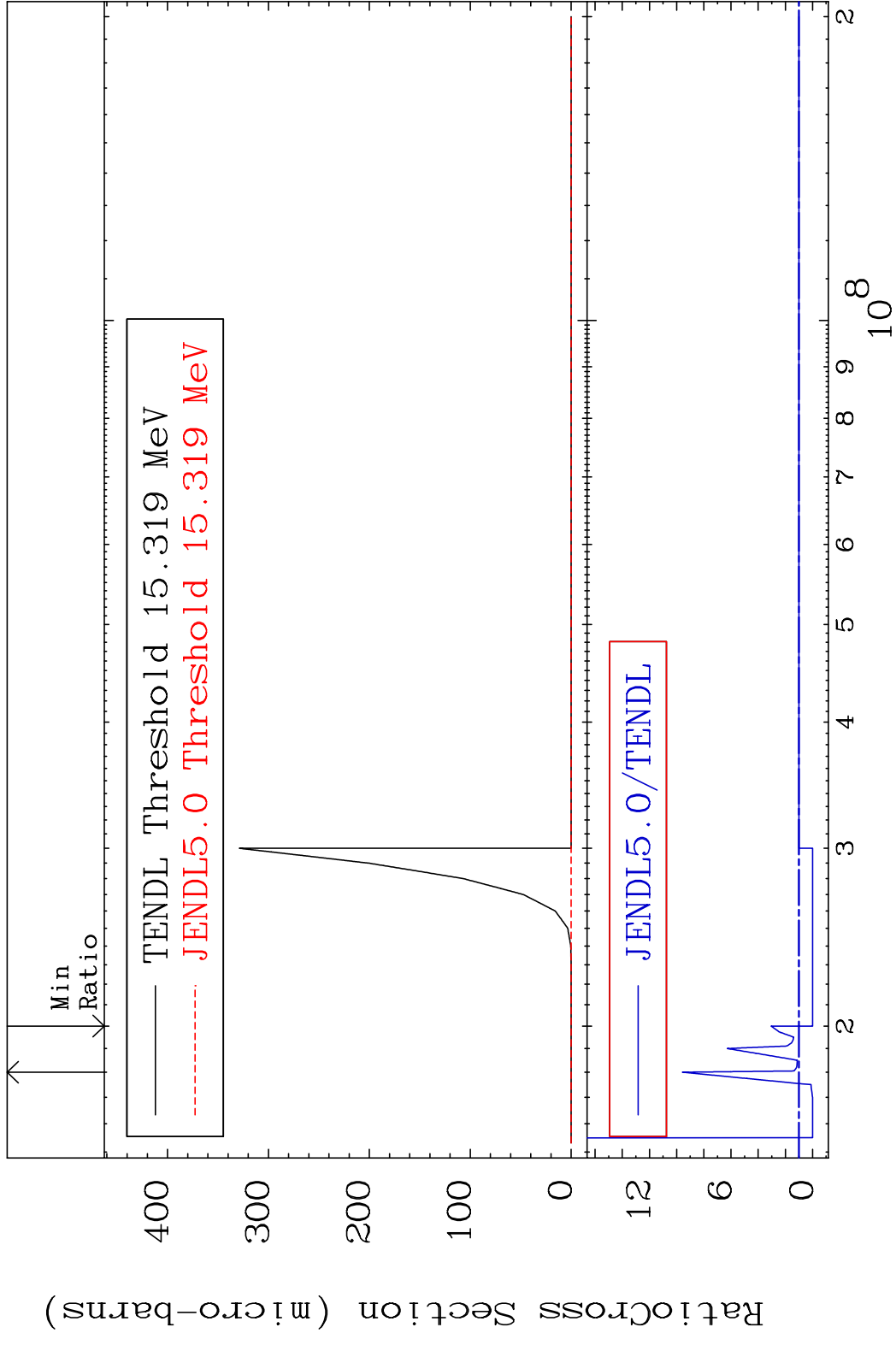
MAT 2843 (n,d) 28-Ni-64
 Cross Section -100.0 To 153.4 %



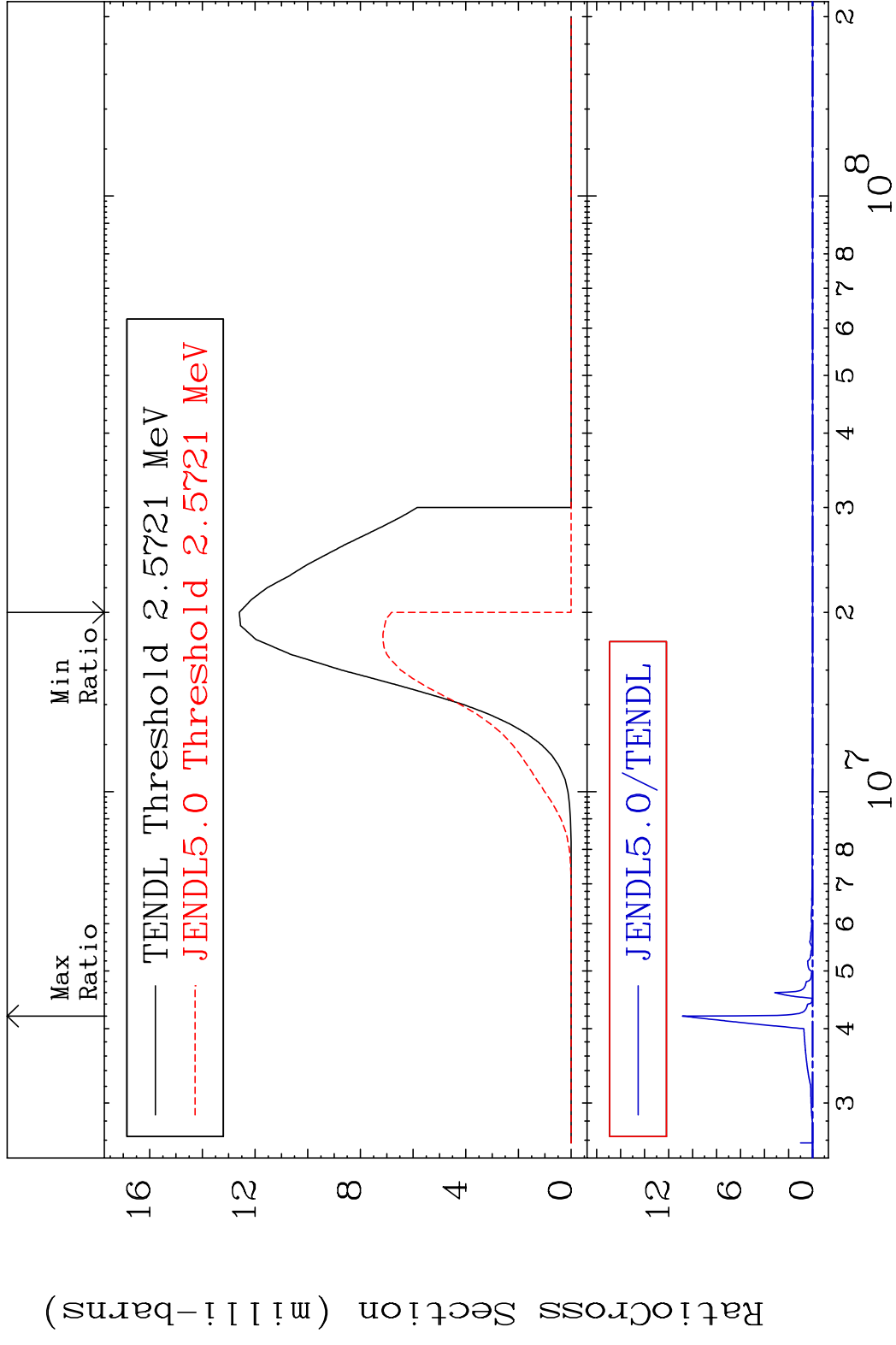
MAT 2843 (n, t) 28-Ni-64
Cross Section -100.0 To 9999. %



MAT 2843 (n, He-3) 28-Ni-64
 Cross Section -100.0 To 858.0 %

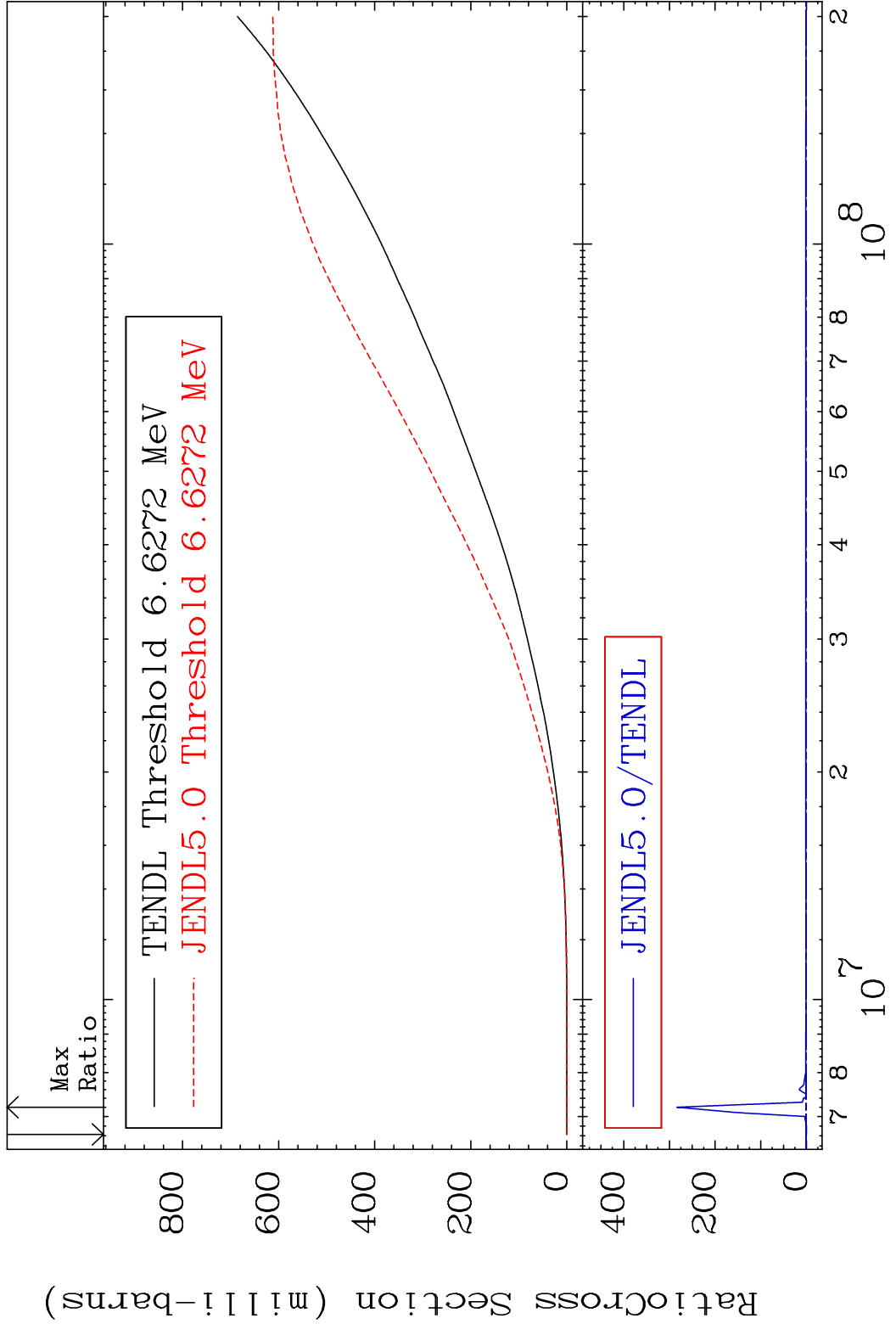


MAT 2843 (n, α) 28-Ni-64
 Cross Section -100.0 To 9999. %

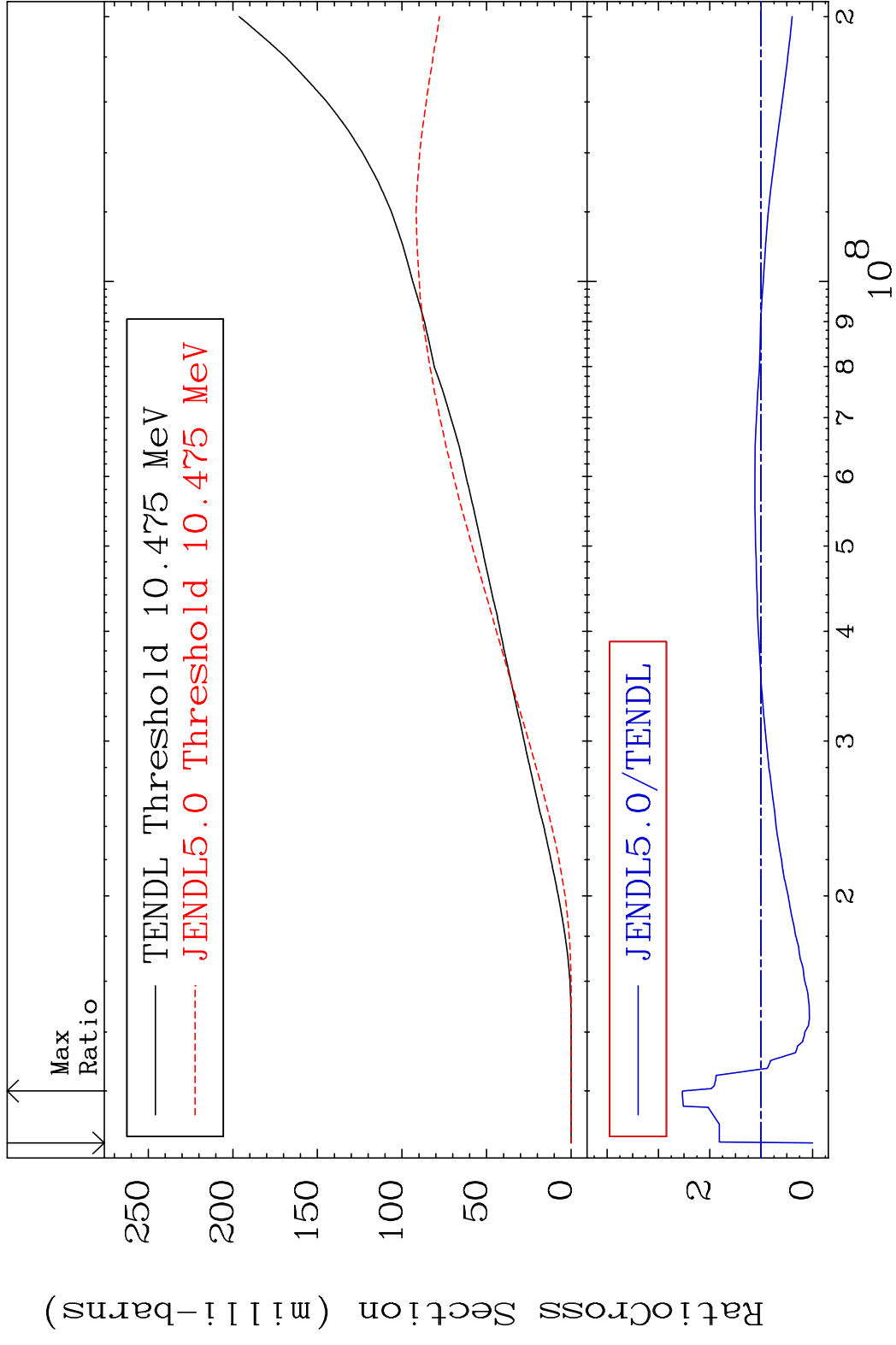


32 28-Ni-64

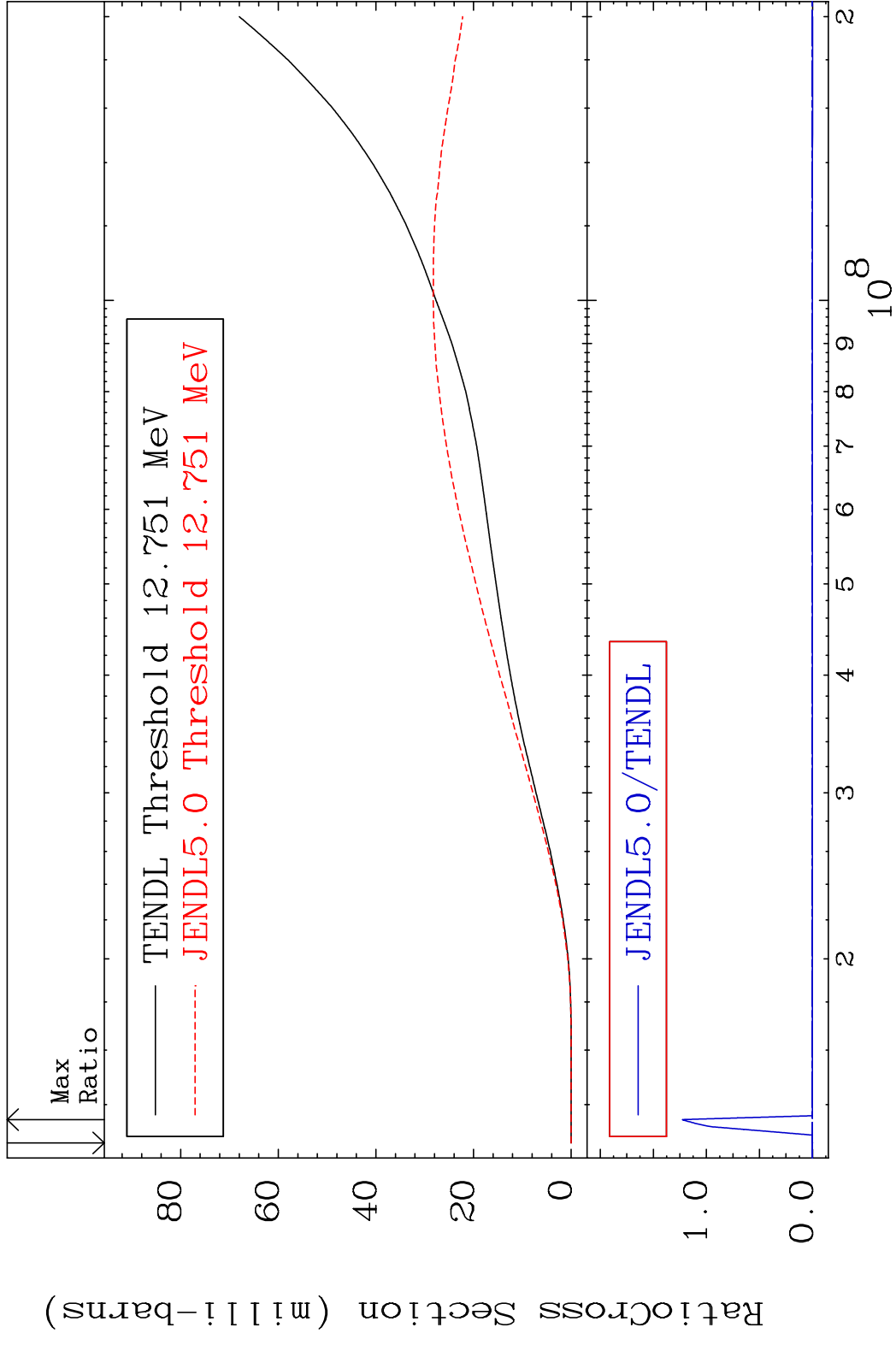
MAT 2843 Hydrogen Production 28-Ni-64
 Cross Section -100.0 To 9999. %



MAT 2843 Deuterium Production $^{28}\text{Ni-64}$
 Cross Section -100.0 To 153.4 %



MAT 2843 Tritium Production 28-Ni-64
 Cross Section -100.0 To 9999. %

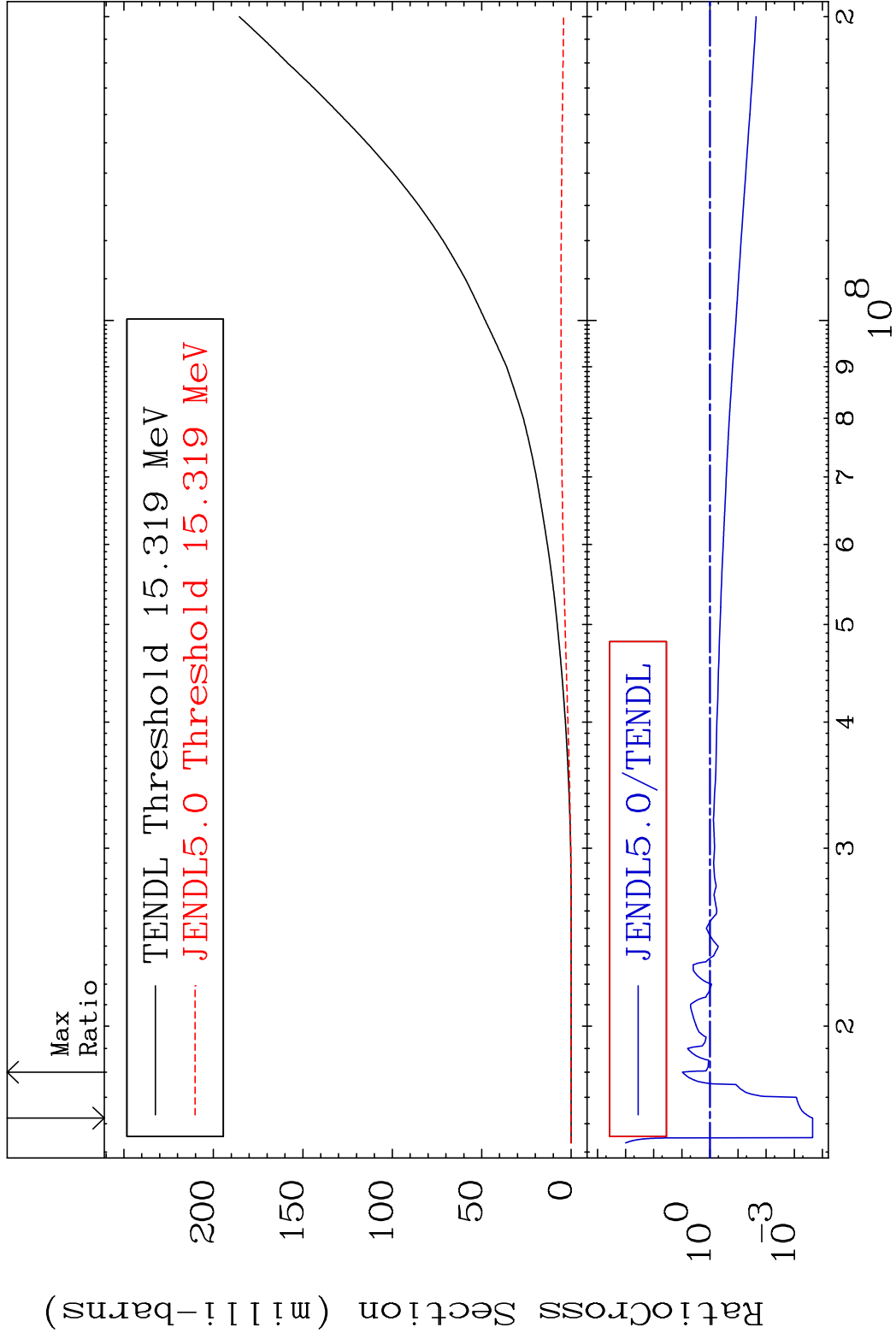


MAT 2843

He-3 Production

28-Ni-64

Cross Section -99.98 To 858.0 %

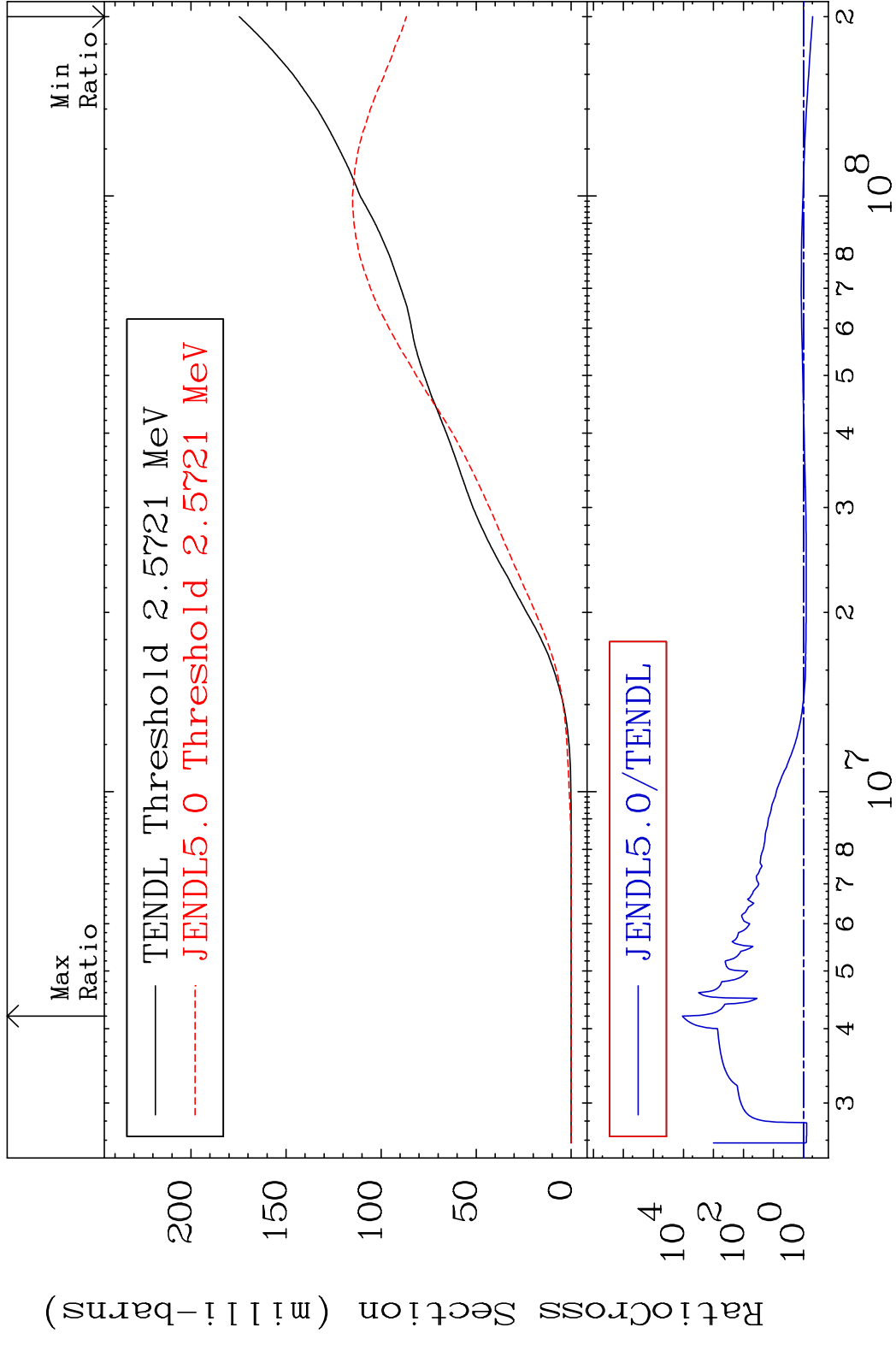


36

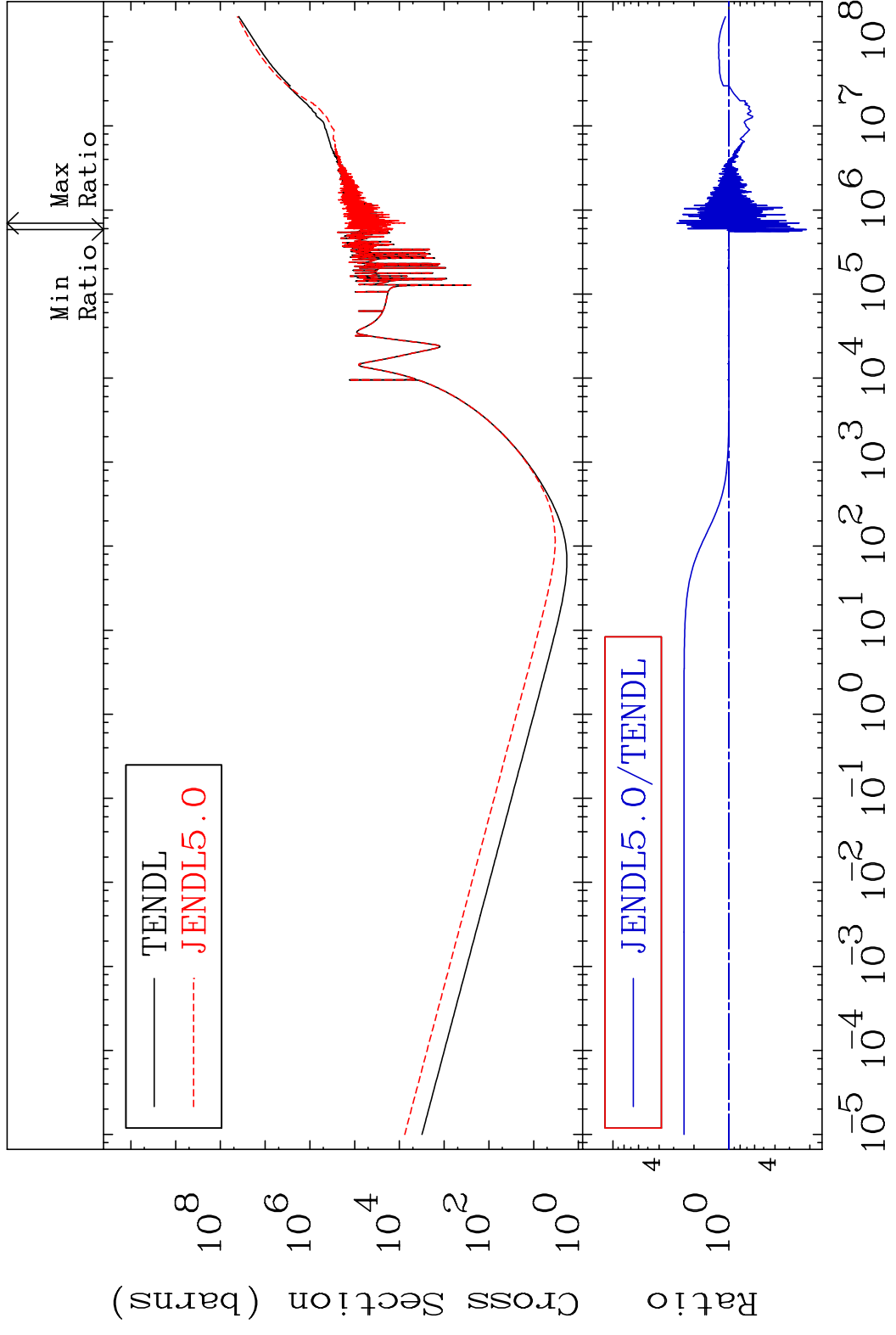
Incident Energy (eV)

28-Ni-64

MAT 2843 He-4 Production 28-Ni-64
 Cross Section -50.34 To 9999. %



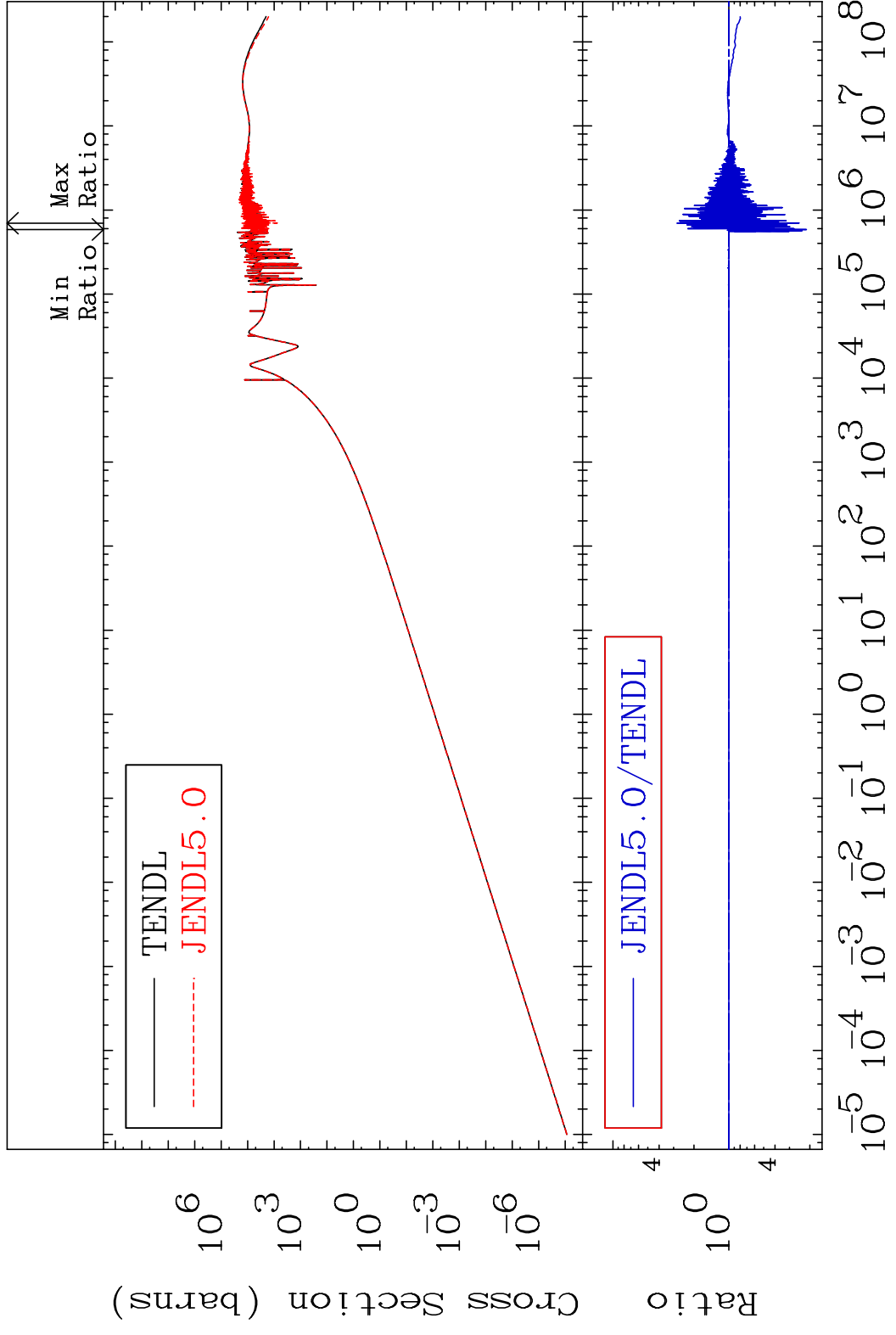
MAT 2843 Kerma total (eV-barns) 28-Ni-64
 Cross Section -78.55 To 178.9 %



MAT 2843

Kerma elastic
Cross Section

28-Ni-64
-78.55 To 178.9 %

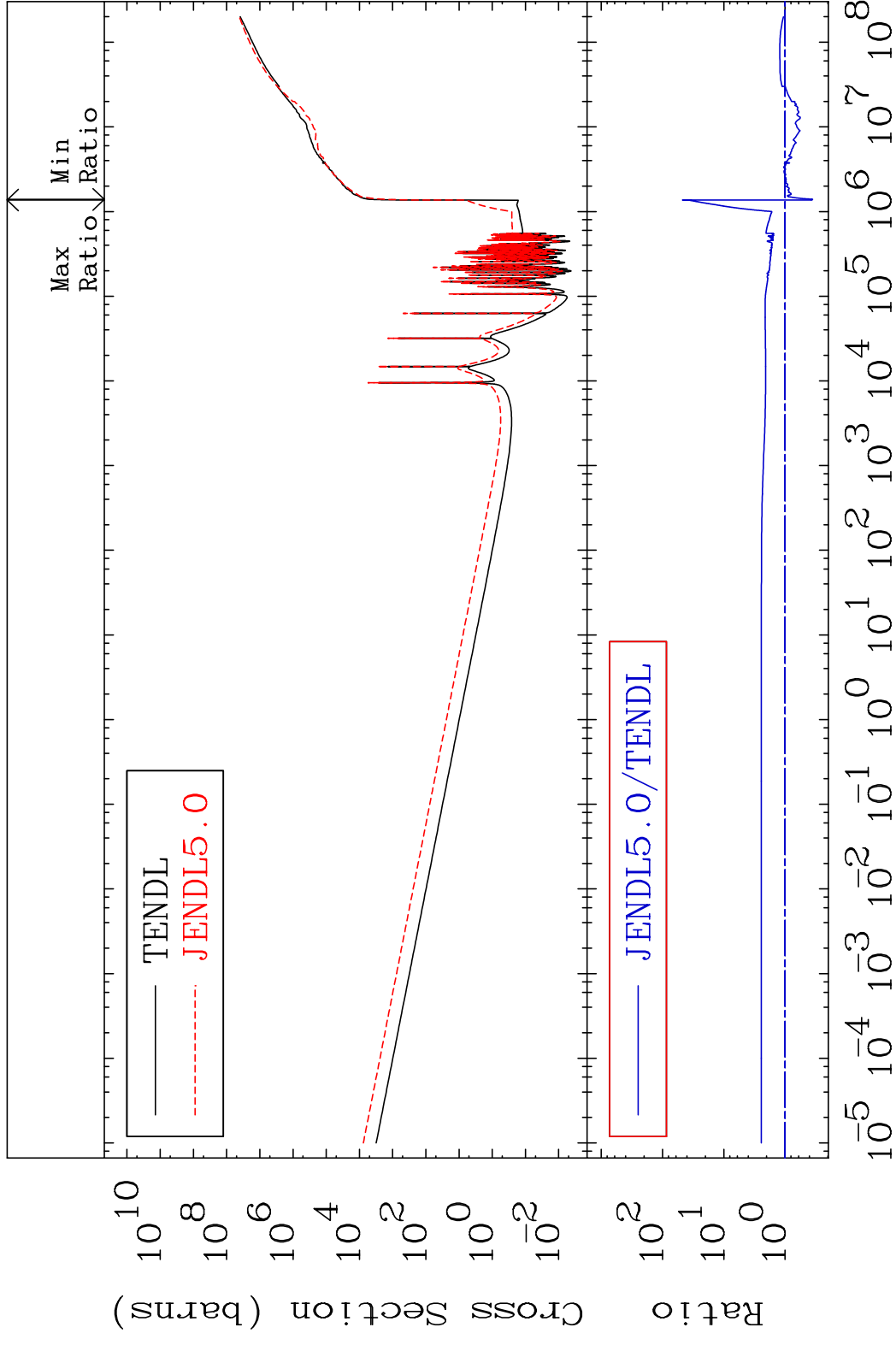


39

Incident Energy (eV)

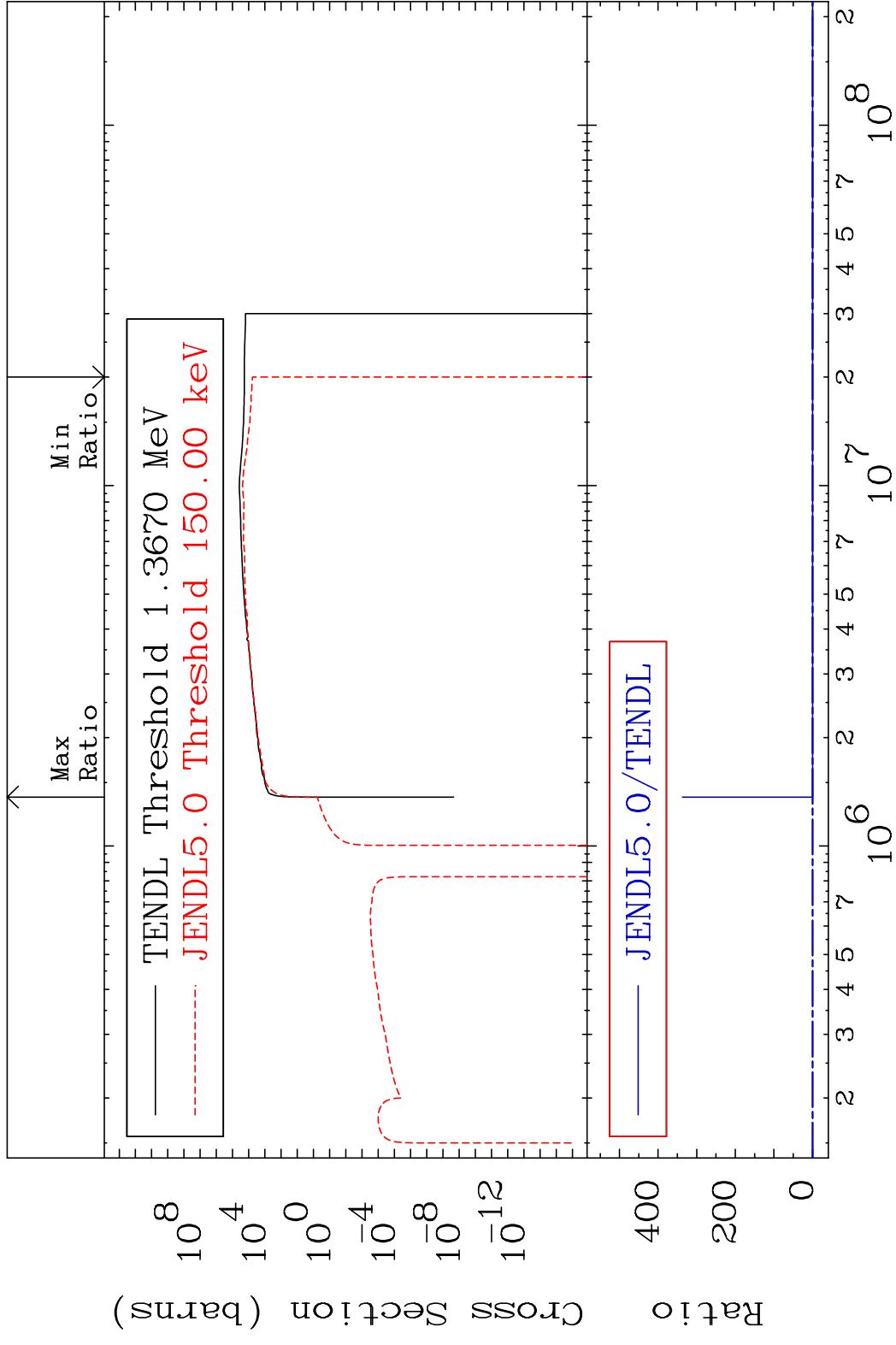
28-Ni-64

MAT 2843 Kerma non-elastic (all but mt2) 28-Ni-64
 Cross Section -64.32 To 4637. %

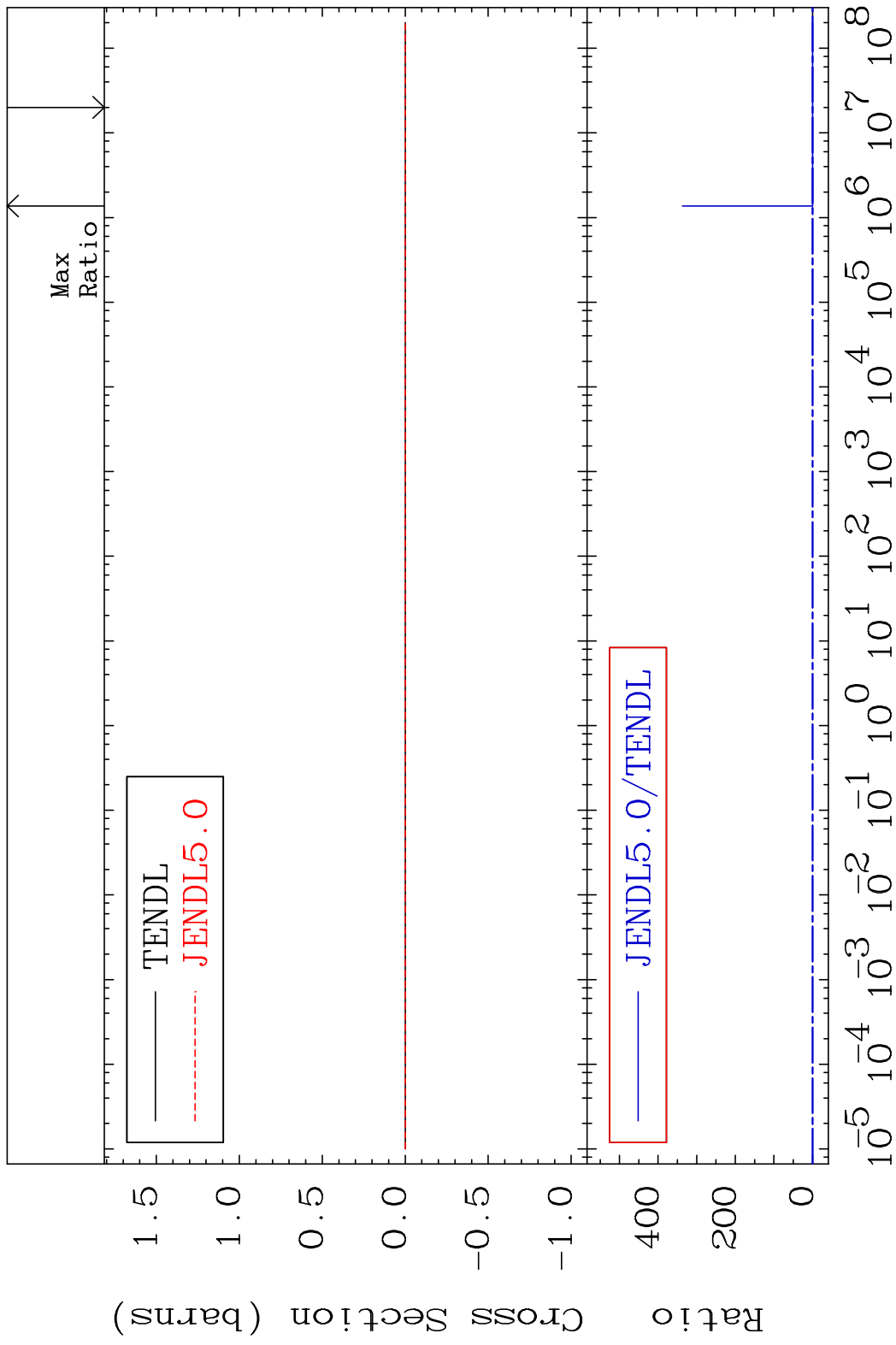


40 Incident Energy (eV) 28-Ni-64

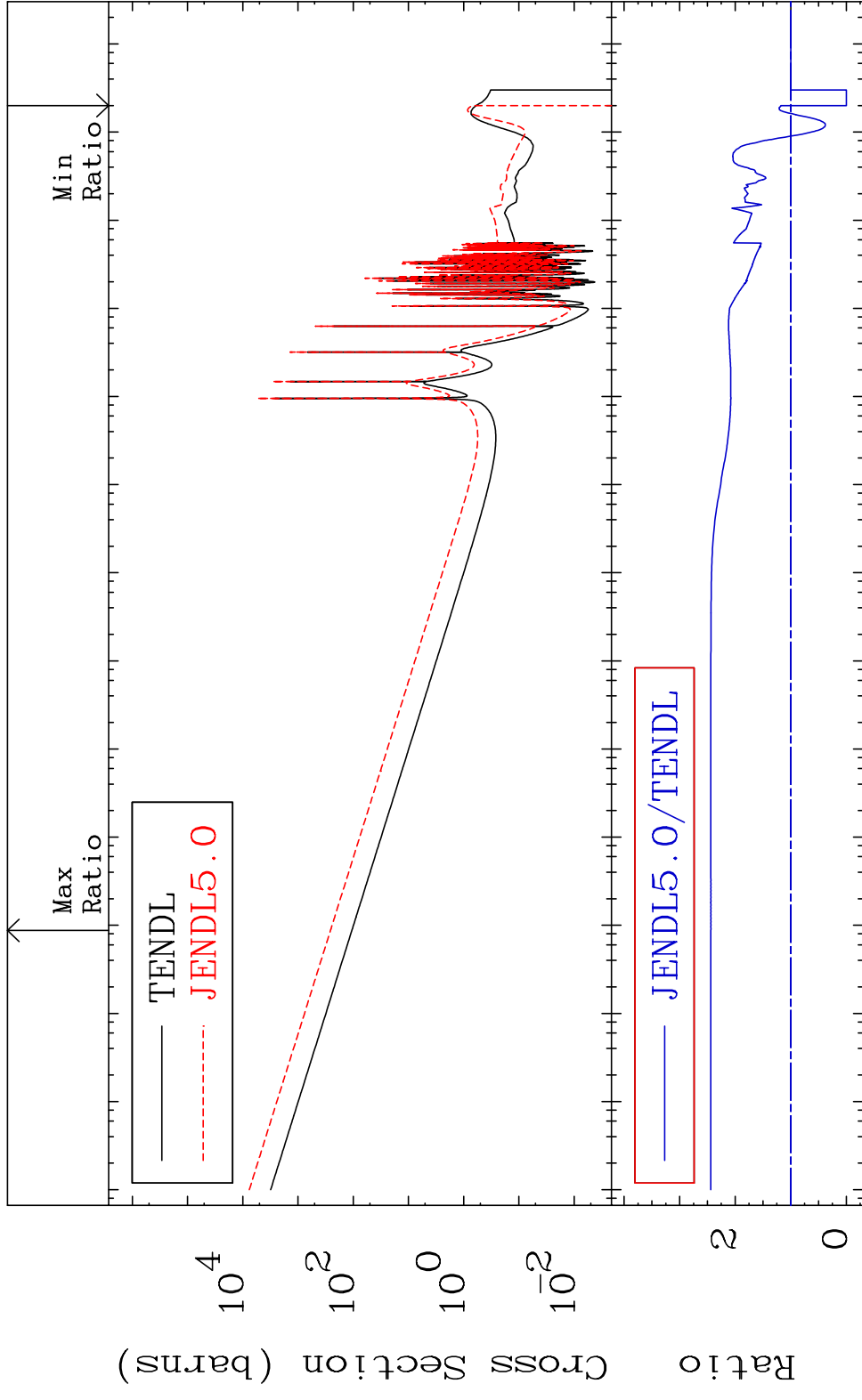
MAT 2843 Kerma inelastic (mt51-91) 28-Ni-64
 Cross Section -100.0 To 9999. %



MAT 2843 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-64
 Cross Section -100.0 To 9999. %

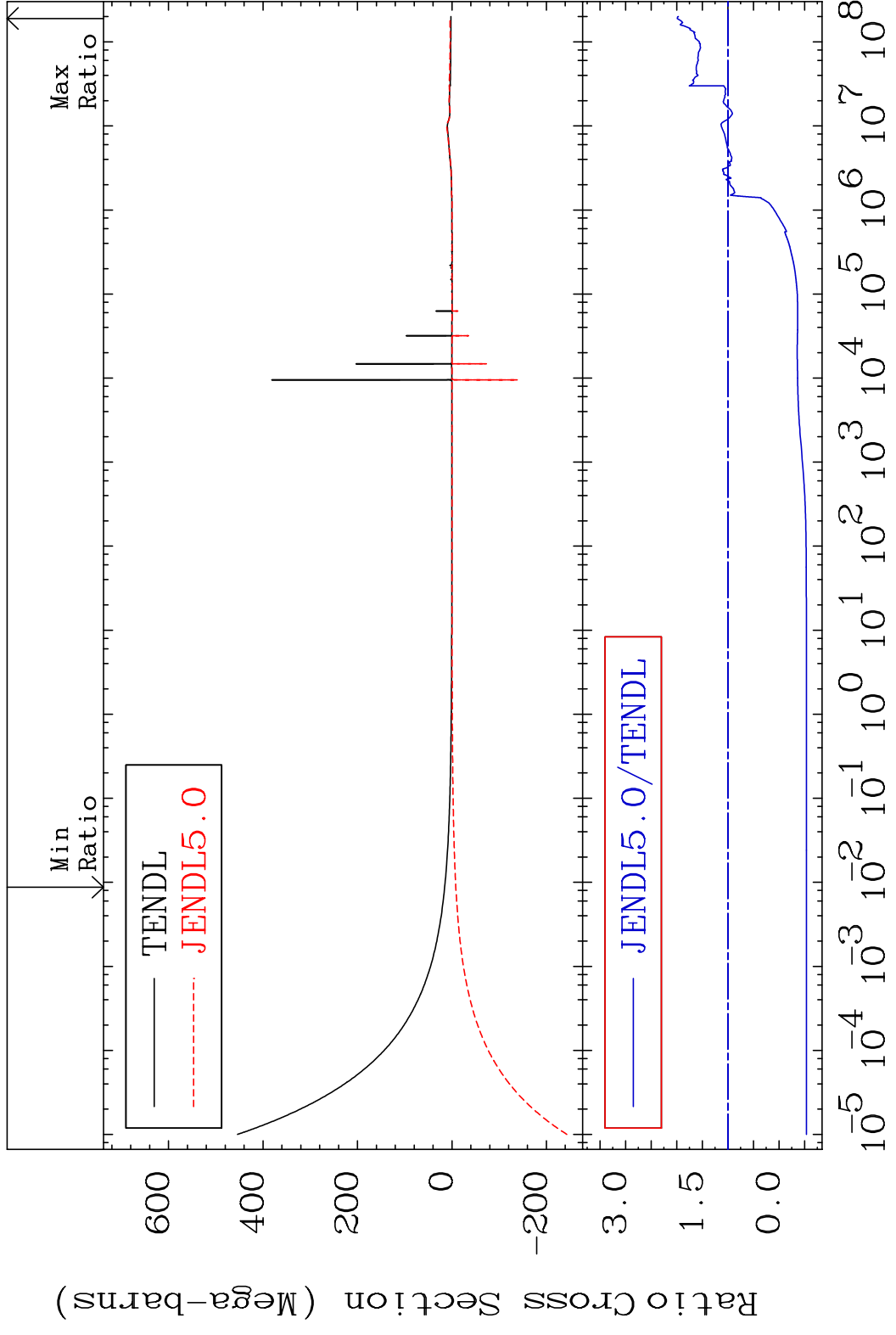


MAT 2843 Kerma capture (mt102) 28-Ni-64
 Cross Section -100.0 To 144.1 %

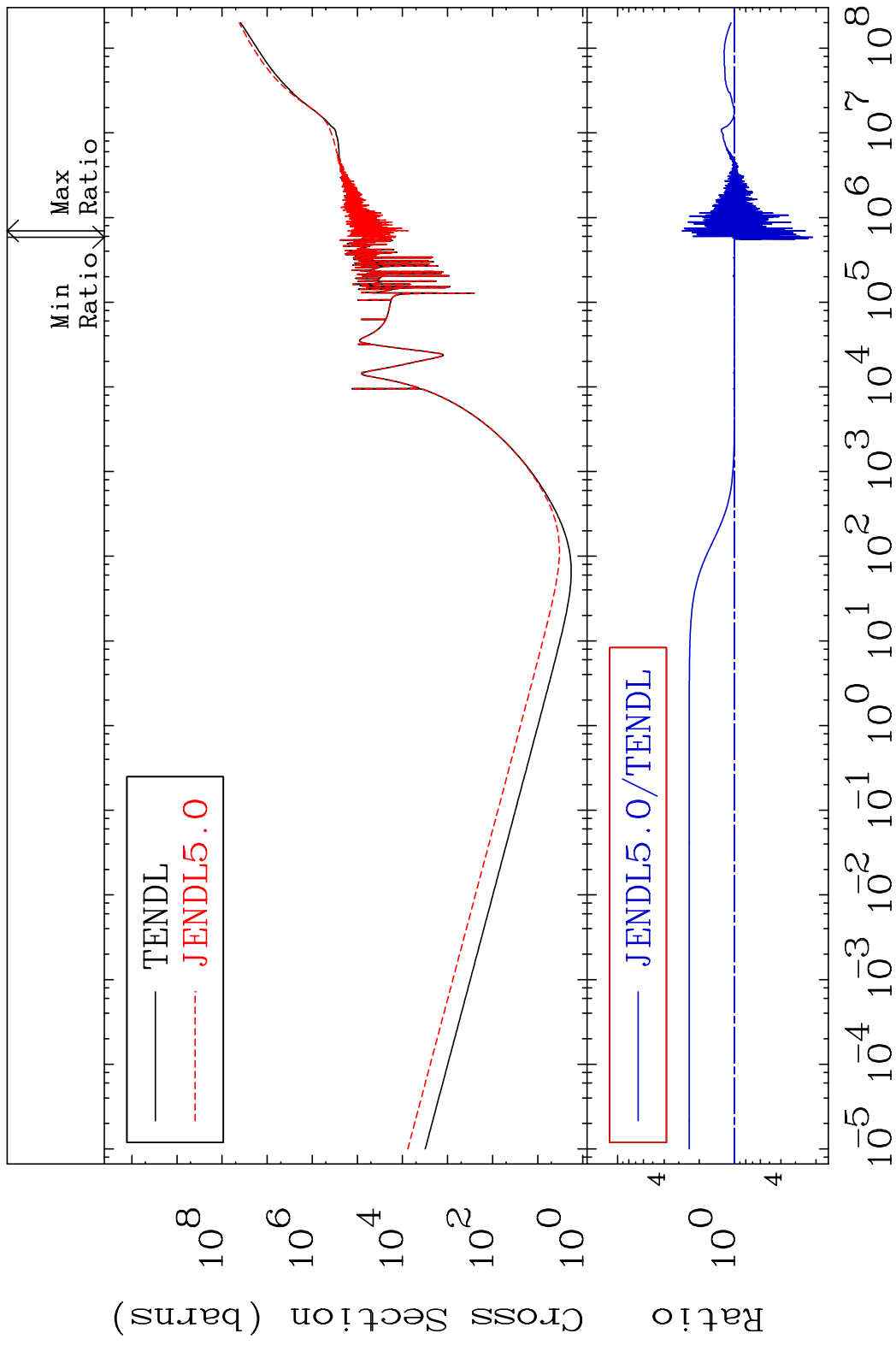


43 Incident Energy (eV) 28-Ni-64

MAT 2843 Total photon (eV-barns) 28-Ni-64
Cross Section -153.6 To 99.09 %



MAT 2843 Total kinematic kerma (high limit) 28-Ni-64
 Cross Section -78.55 To 178.9 %

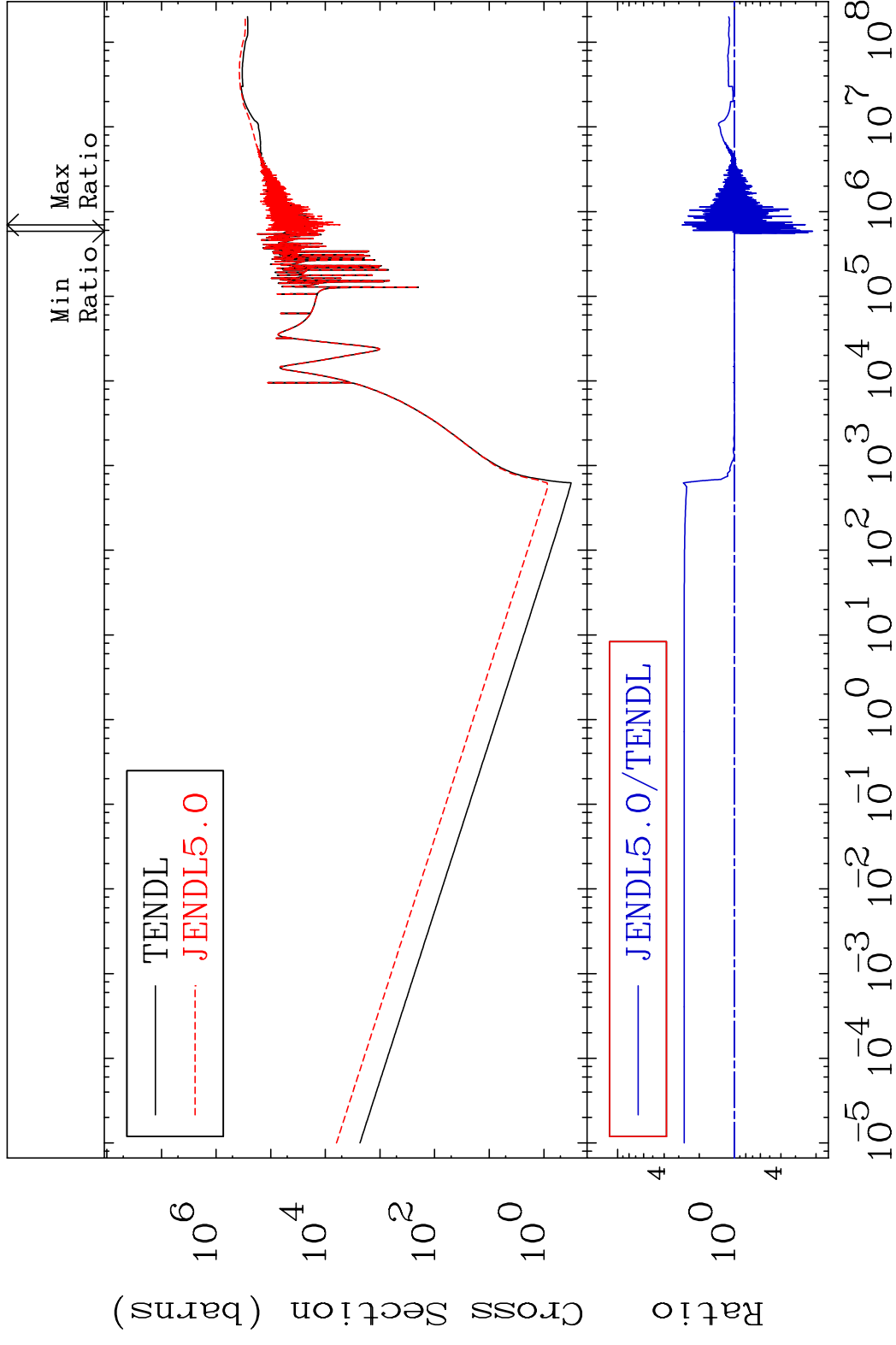


MAT 2843

Dpa total (eV-barns)

28-Ni-64

Cross Section -78.54 To 179.3 %



46

Incident Energy (eV)

28-Ni-64

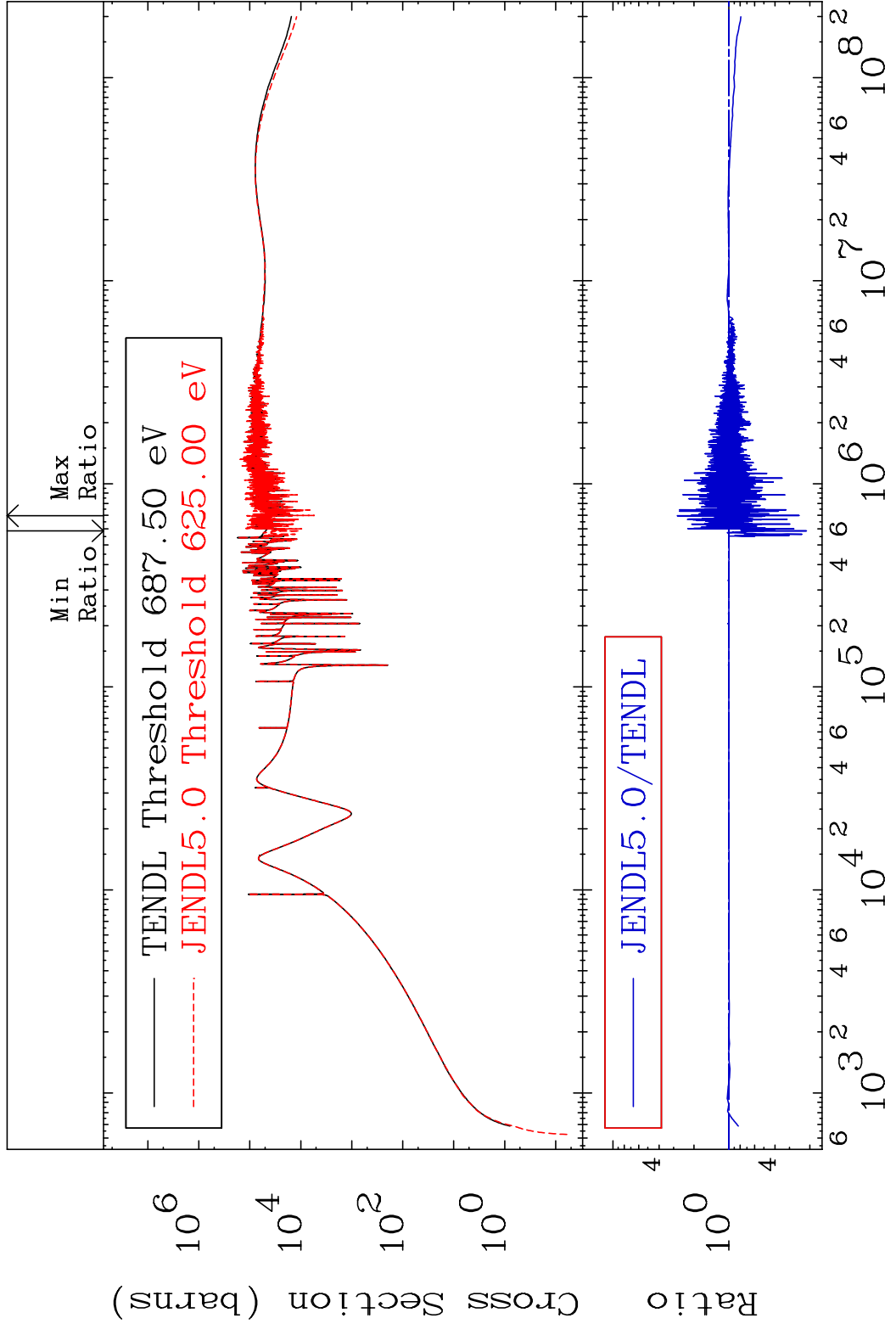
MAT 2843

Dpa elastic (mt2)

28-Ni-64

Cross Section

-78.54 To 179.3 %

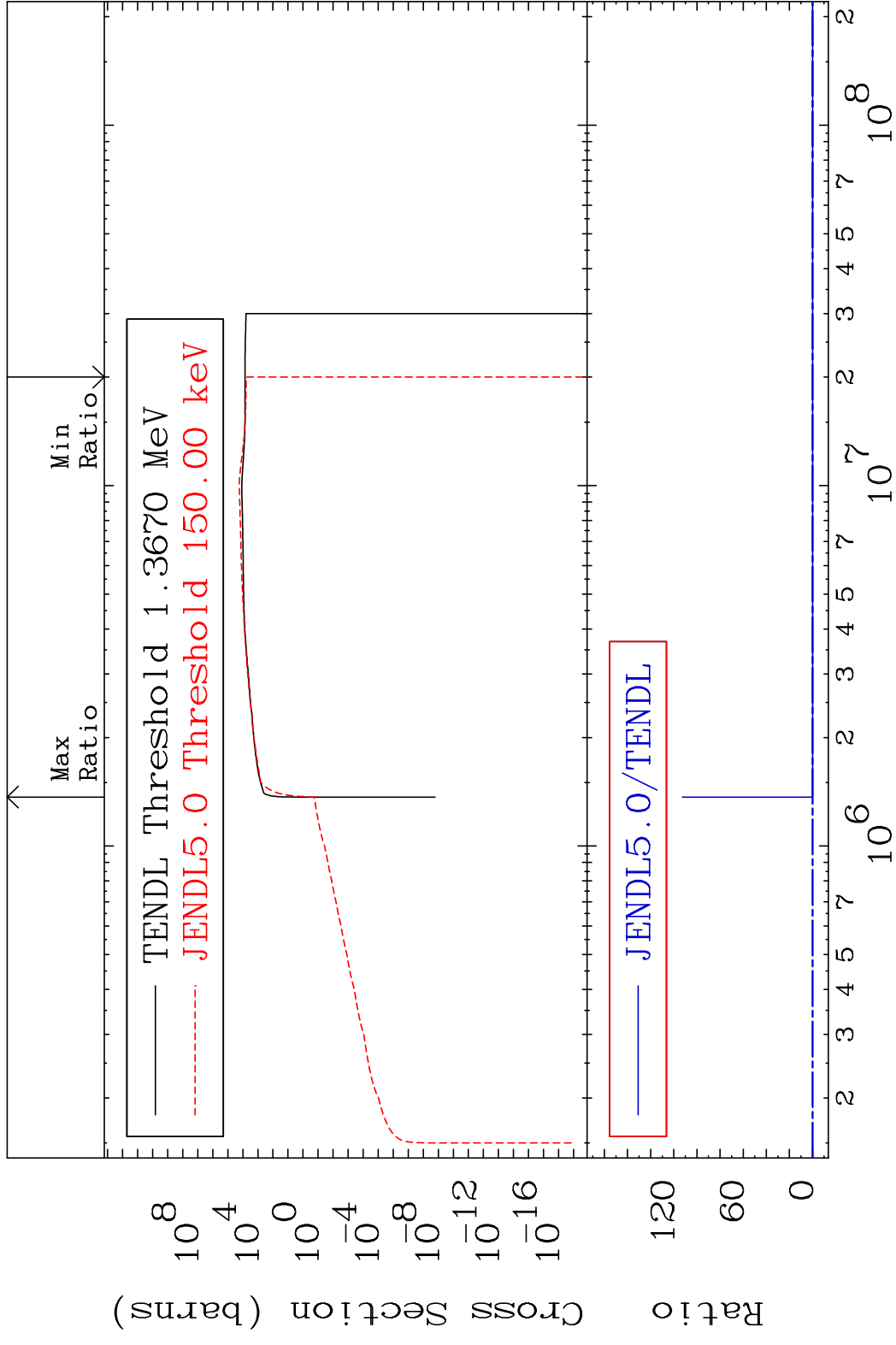


47

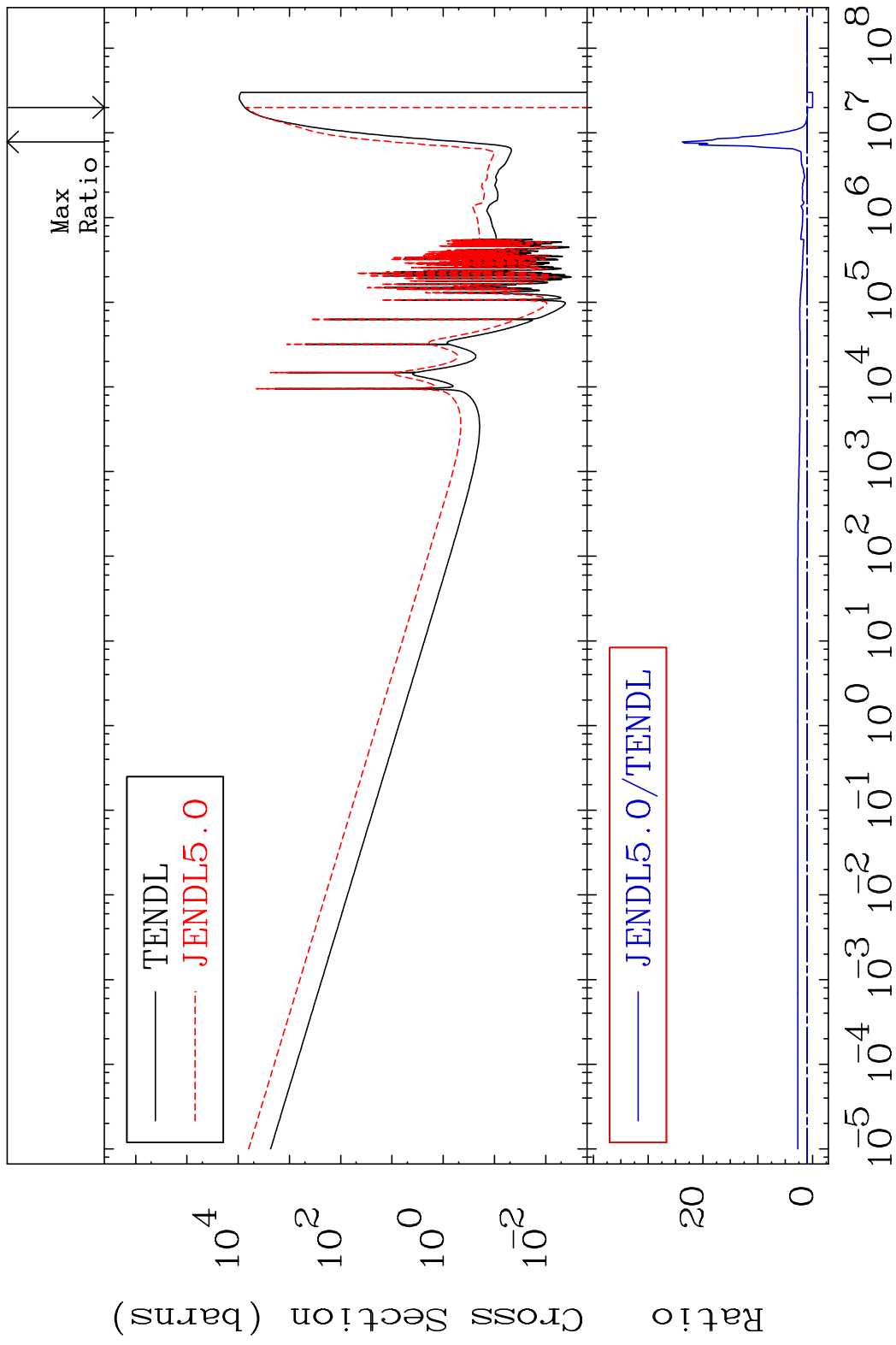
Incident Energy (eV)

28-Ni-64

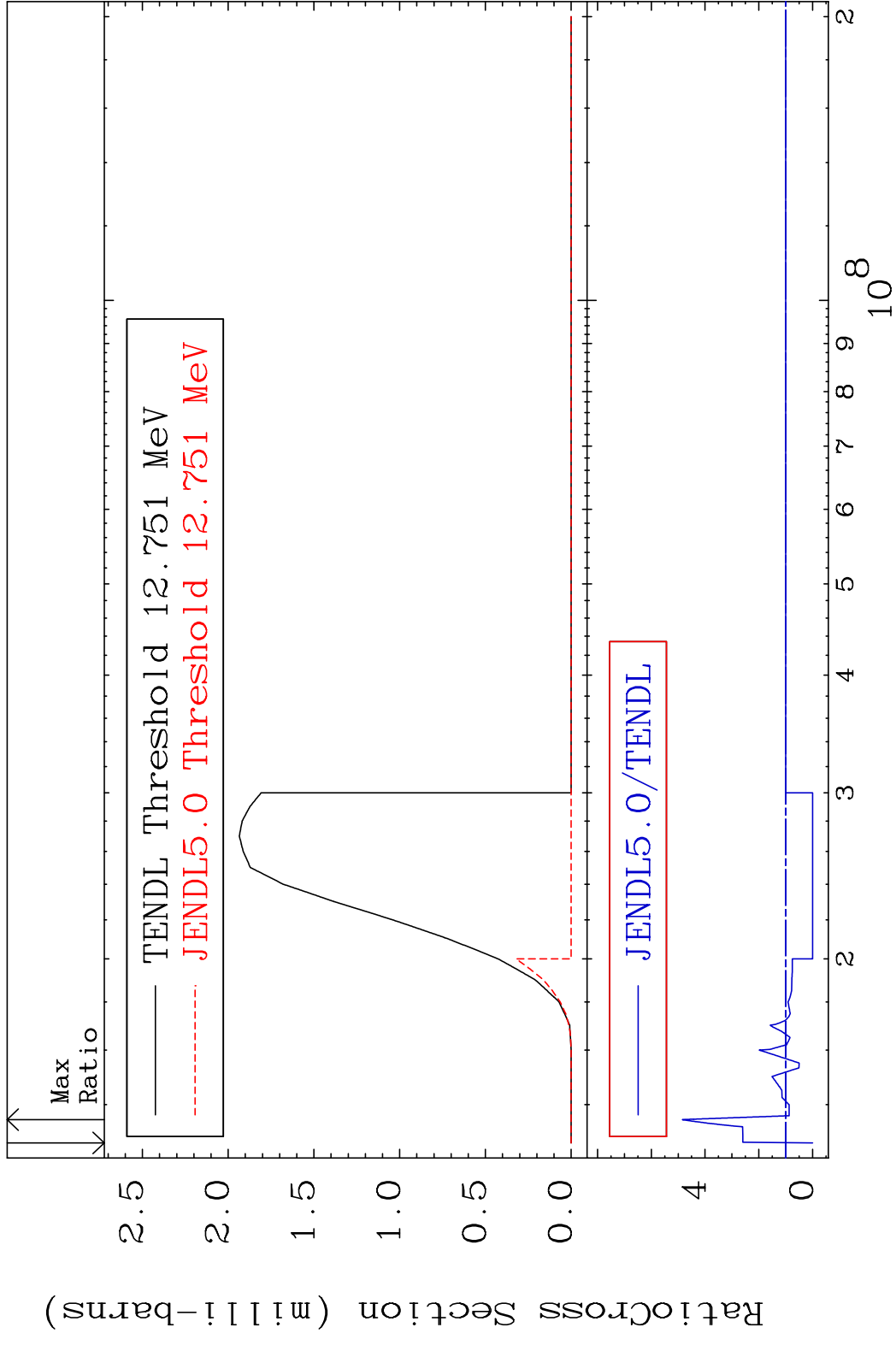
MAT 2843 Dpa inelastic (mt51-91) 28-Ni-64
 Cross Section -100.0 To 9999. %



MAT 2843 Dpa disappearance (mt102 -120) 28-Ni-64
Cross Section -100.0 To 2277. %



MAT 2843 (n, t): 27-Co-62g 28-Ni-64
 Radionuclide Production Cross Section 180.0 mb 384.5 %



MAT 2843 (n,t):27-Co-62m1 28-Ni-64
 Radionuclide Production Cross Section 100.00 dth 9999. %

