

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

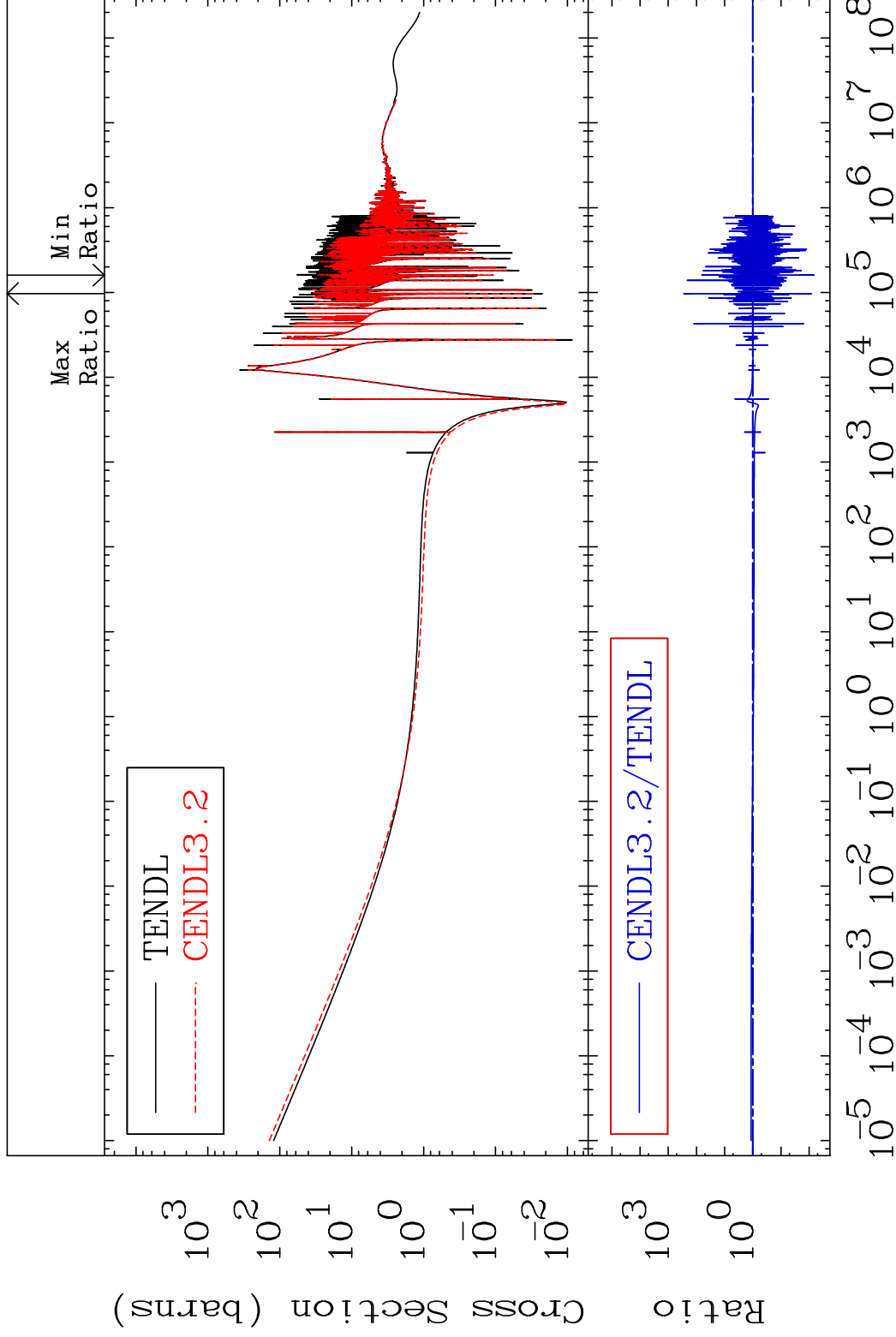
MAT 2831

Total

28-Ni-60

Cross Section

-99.33 To 9999. %



1

Incident Energy (eV)

28-Ni-60

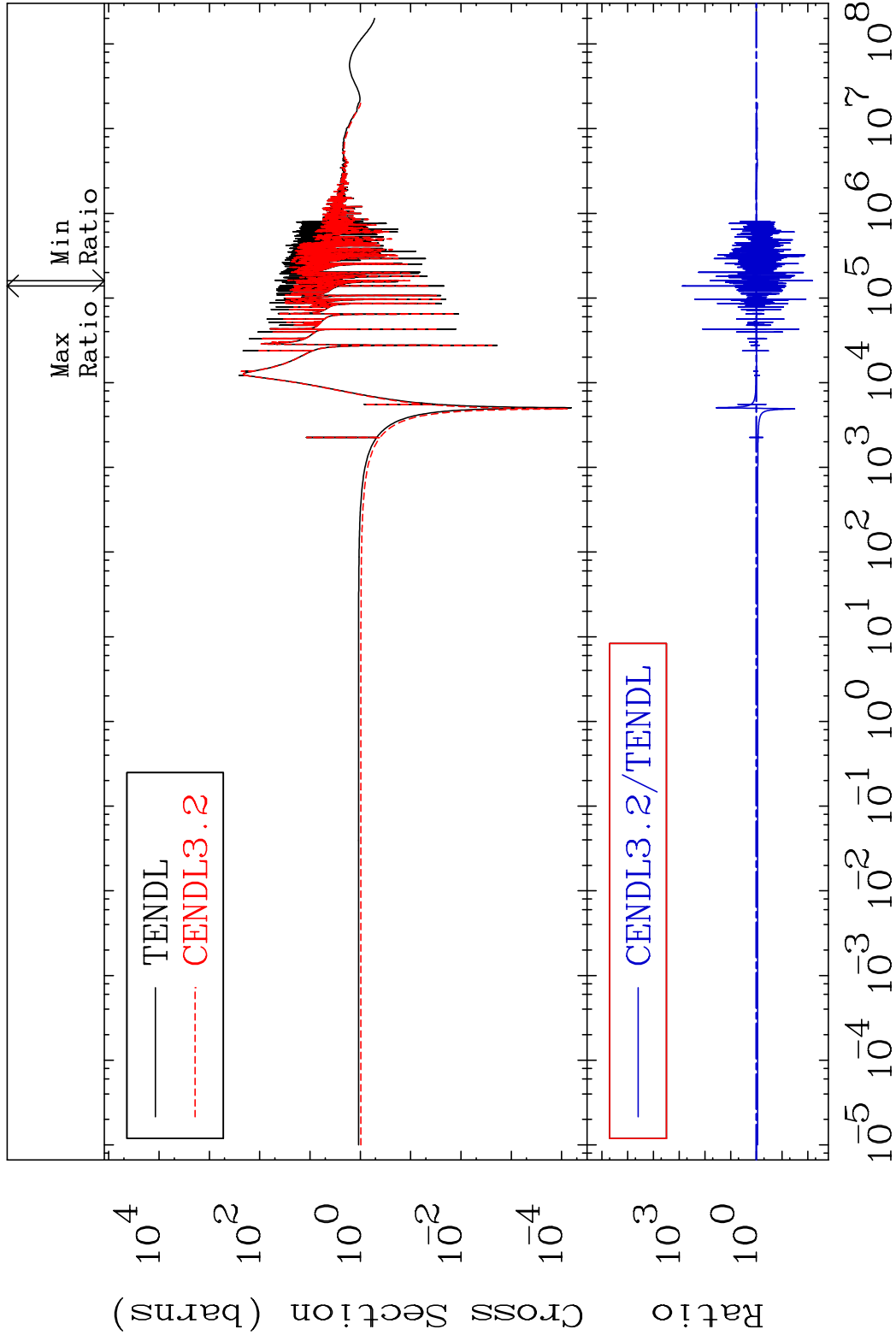
MAT 2831

Elastic

28-Ni-60

Cross Section

-99.34 To 9999. %

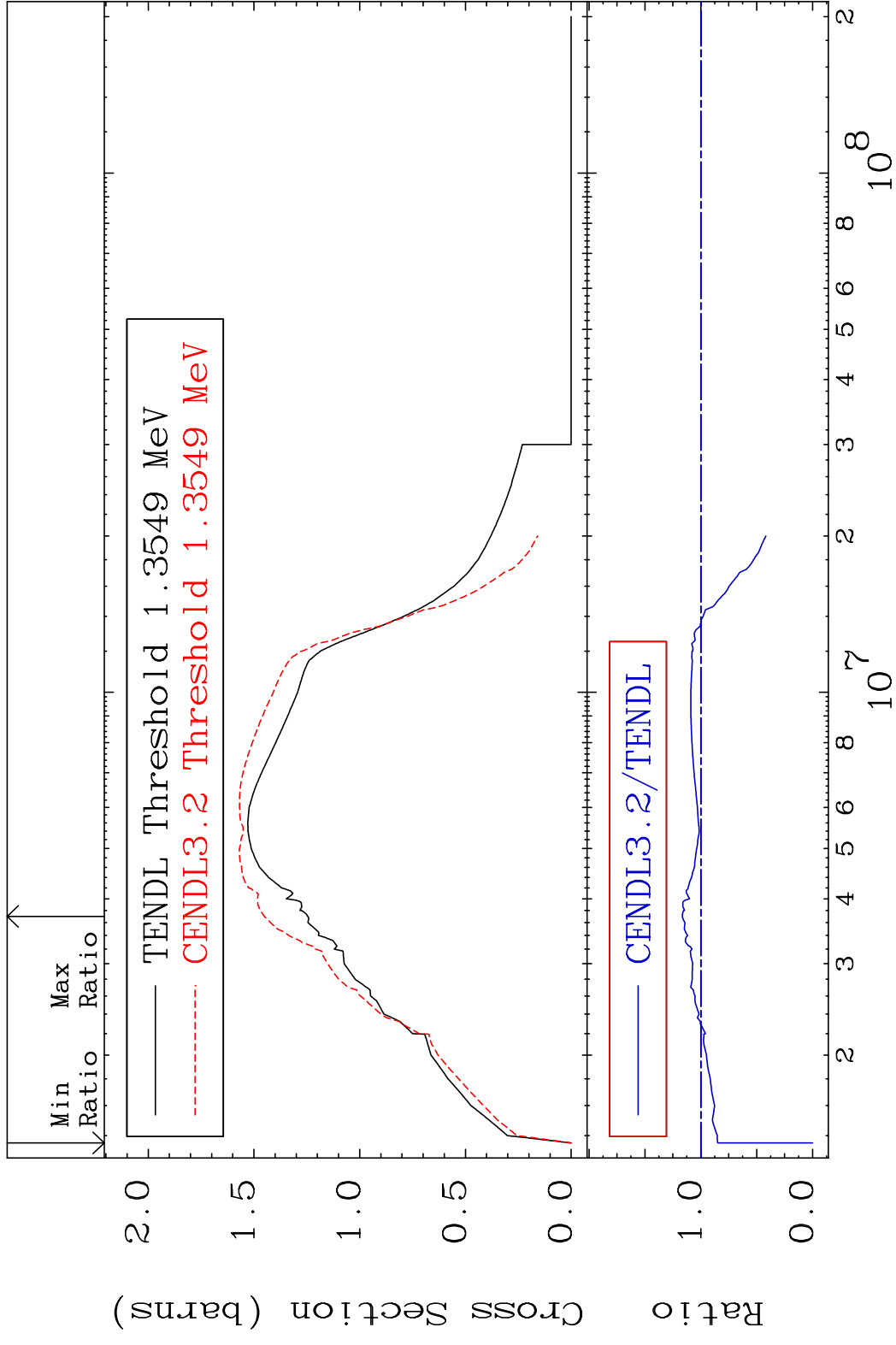


2

Incident Energy (eV)

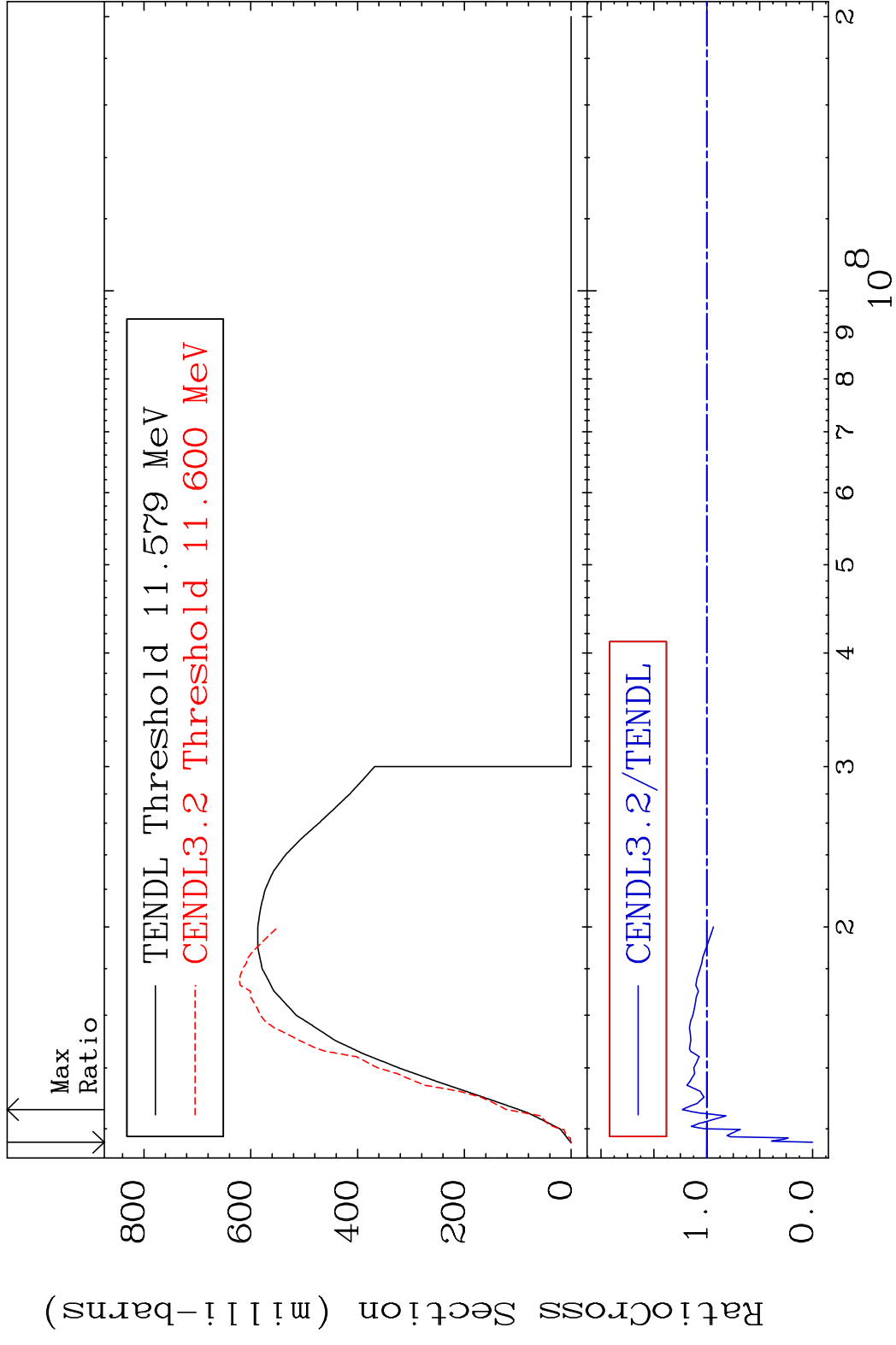
28-Ni-60

MAT 2831 Inelastic 28-Ni-60
 Cross Section -100.0 To 16.50 %



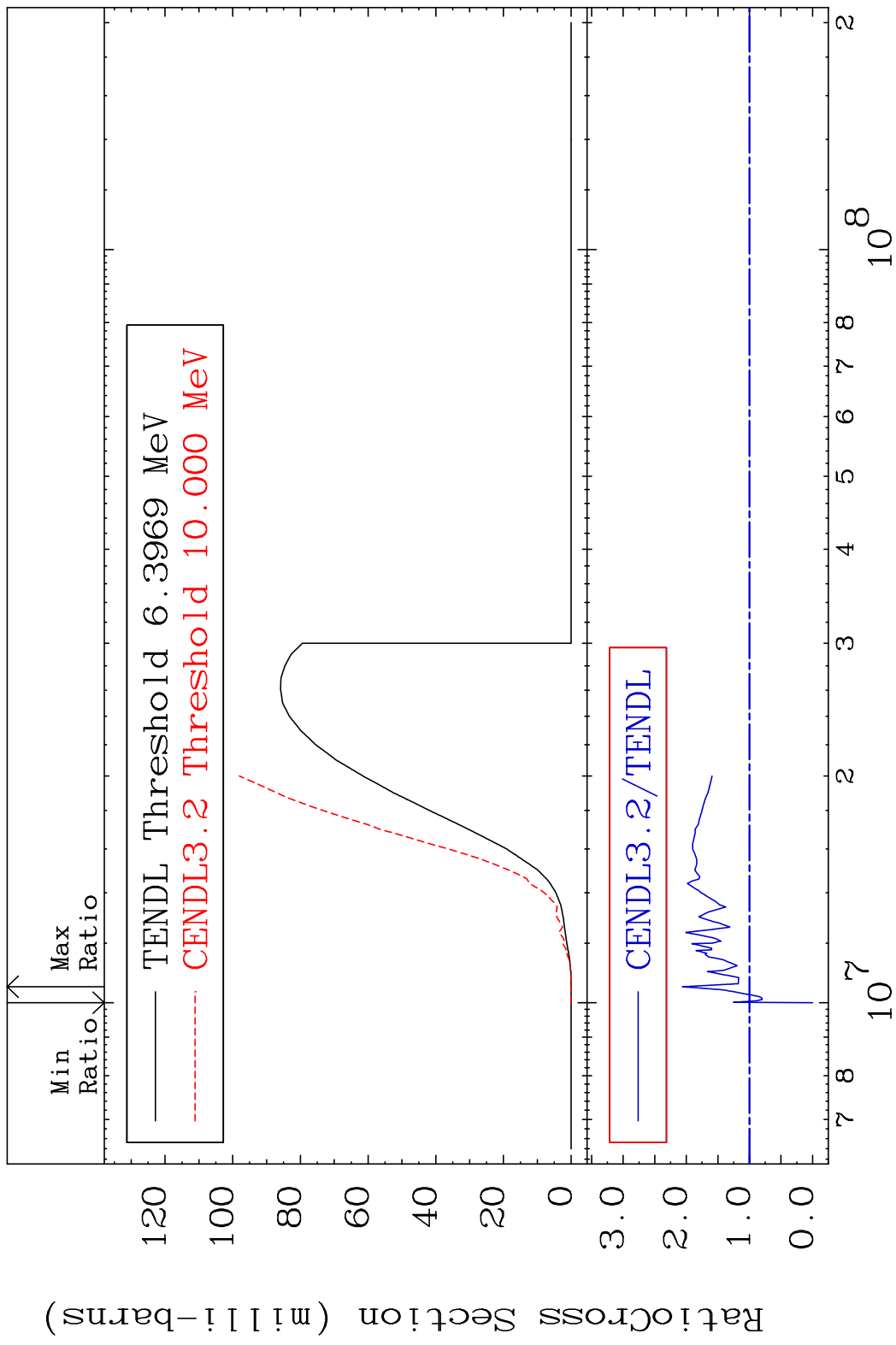
3 Incident Energy (eV) 28-Ni-60

MAT 2831 (n,2n) 28-Ni-60
 Cross Section -100.0 To 23.03 %



4 Incident Energy (eV) 28-Ni-60

MAT 2831 (n, n') α 28-Ni-60
 Cross Section -100.0 To 106.3 %



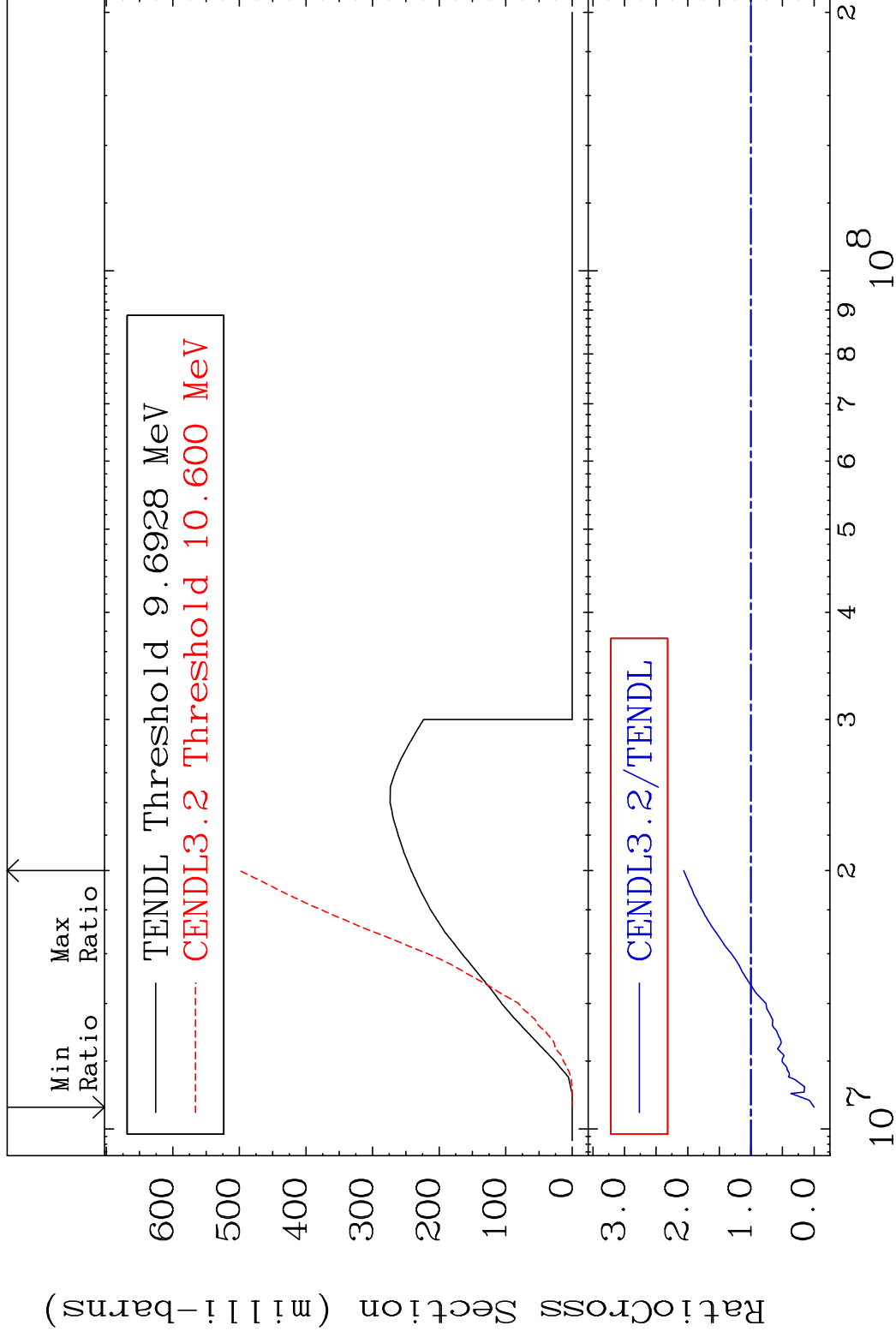
5 28-Ni-60

MAT 2831

(n, n') p

28-Ni-60

Cross Section -100.0 To 106.4 %

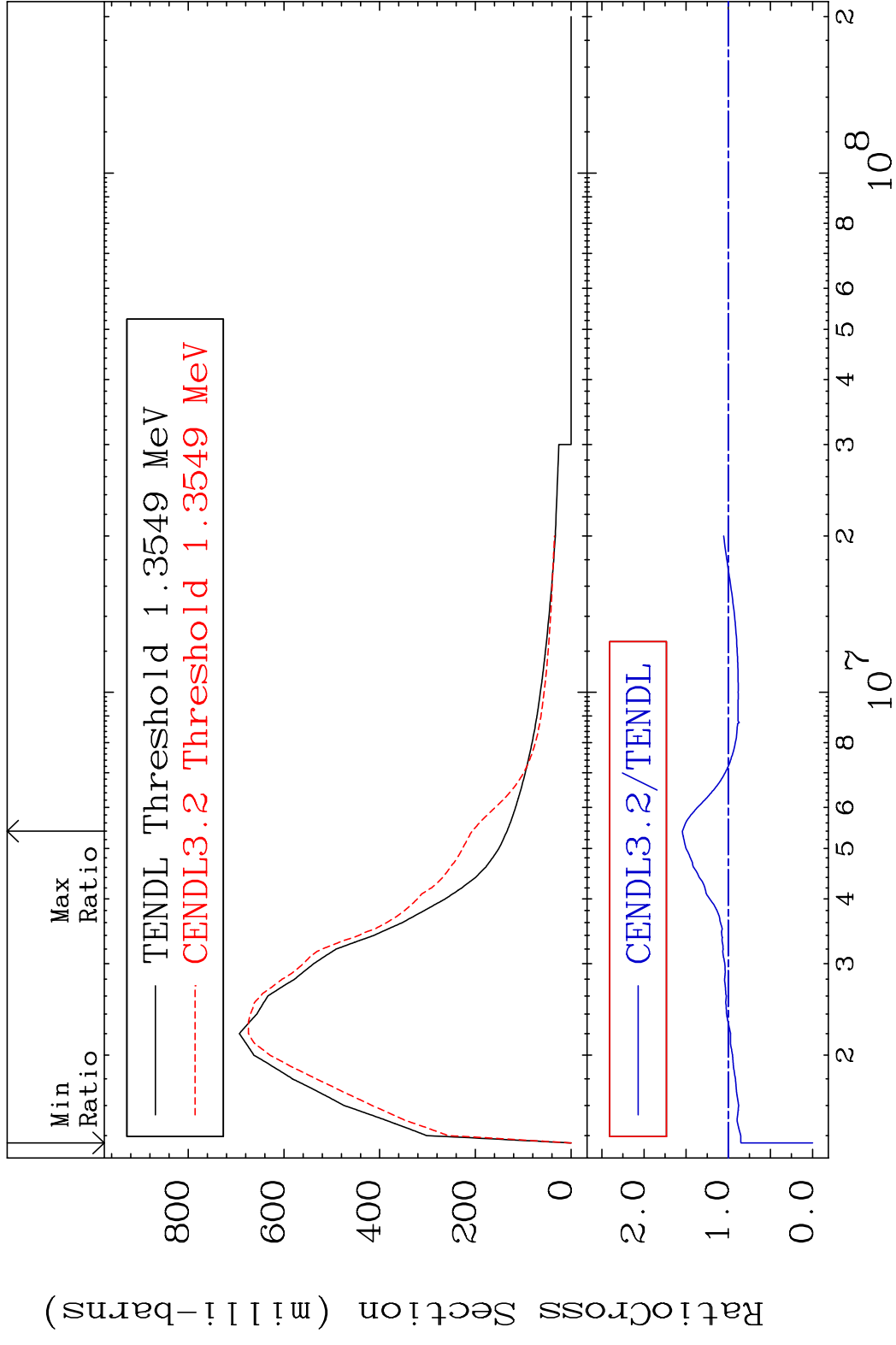


6

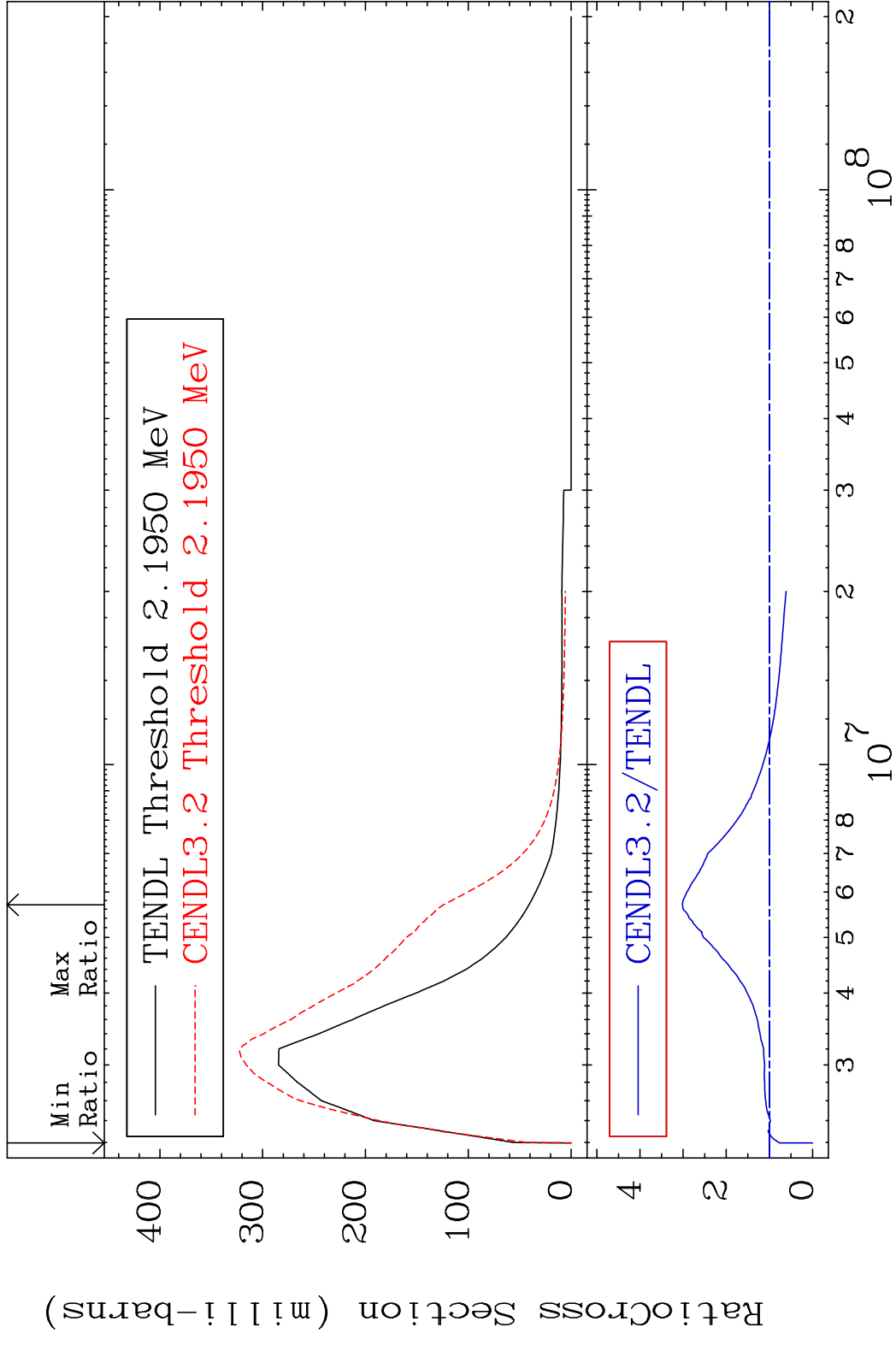
Incident Energy (eV)

28-Ni-60

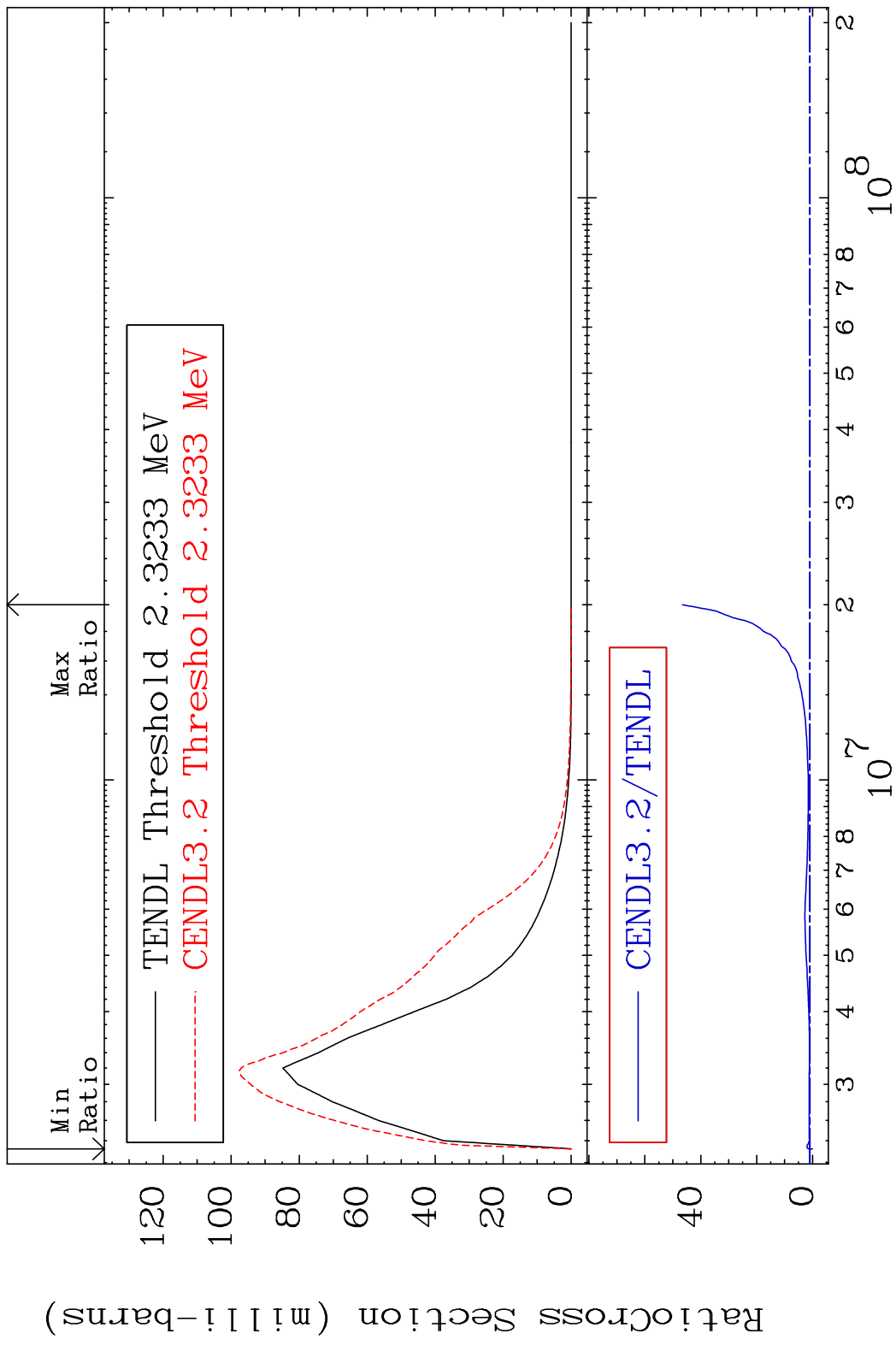
MAT 2831 MT= 51 (n, n') Level 28-Ni-60
 Cross Section -100.0 To 54.48 %



MAT 2831 MT= 52 (n, n') Level 28-Ni-60
 Cross Section -100.0 To 201.8 %

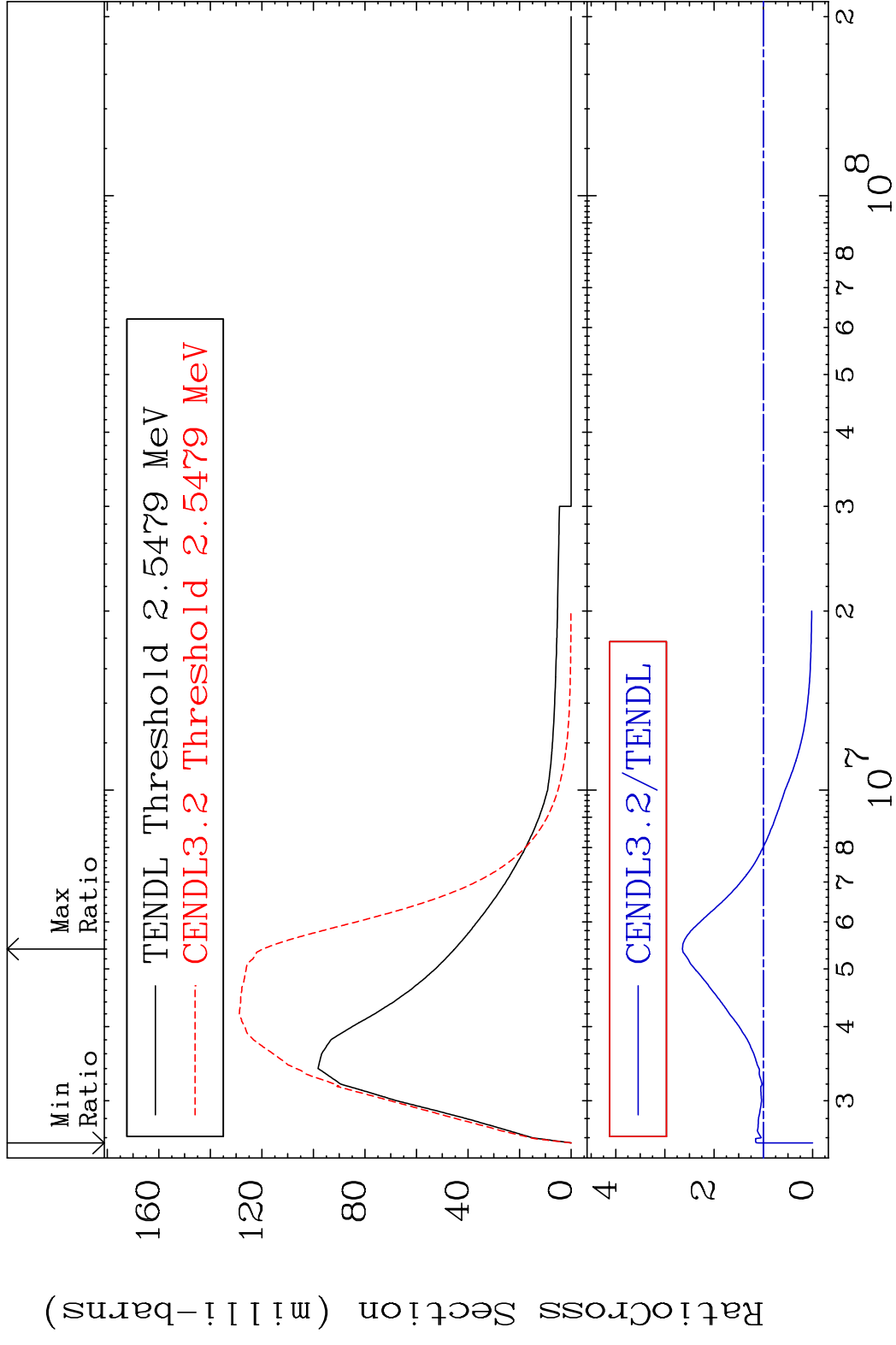


MAT 2831 MT= 53 (n, n') Level 28-Ni-60
 Cross Section -100.0 To 4558. %



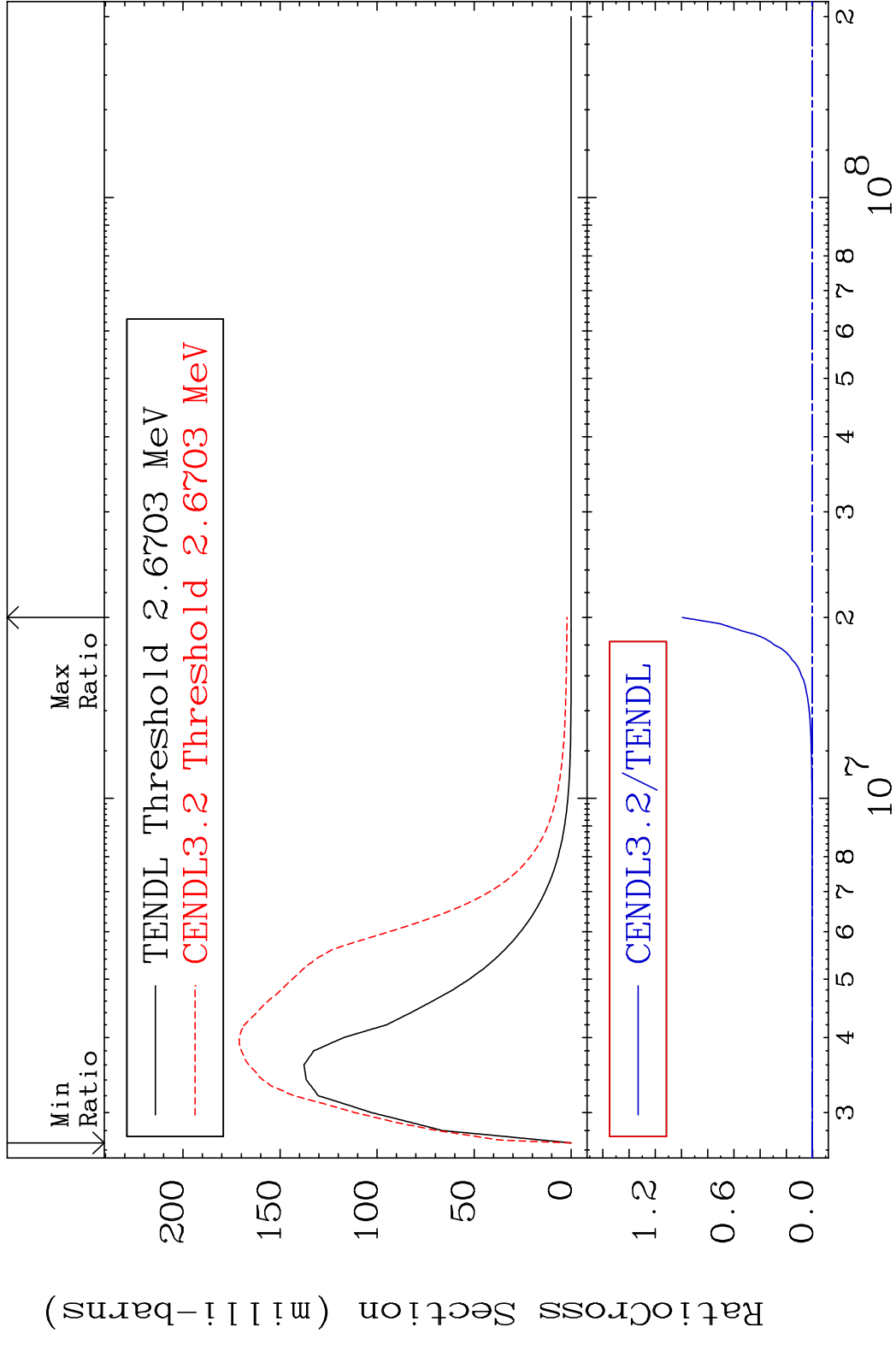
9 Incident Energy (eV) 28-Ni-60

MAT 2831 MT= 54 (n,n') Level 28-Ni-60
 Cross Section -100.0 To 164.5 %

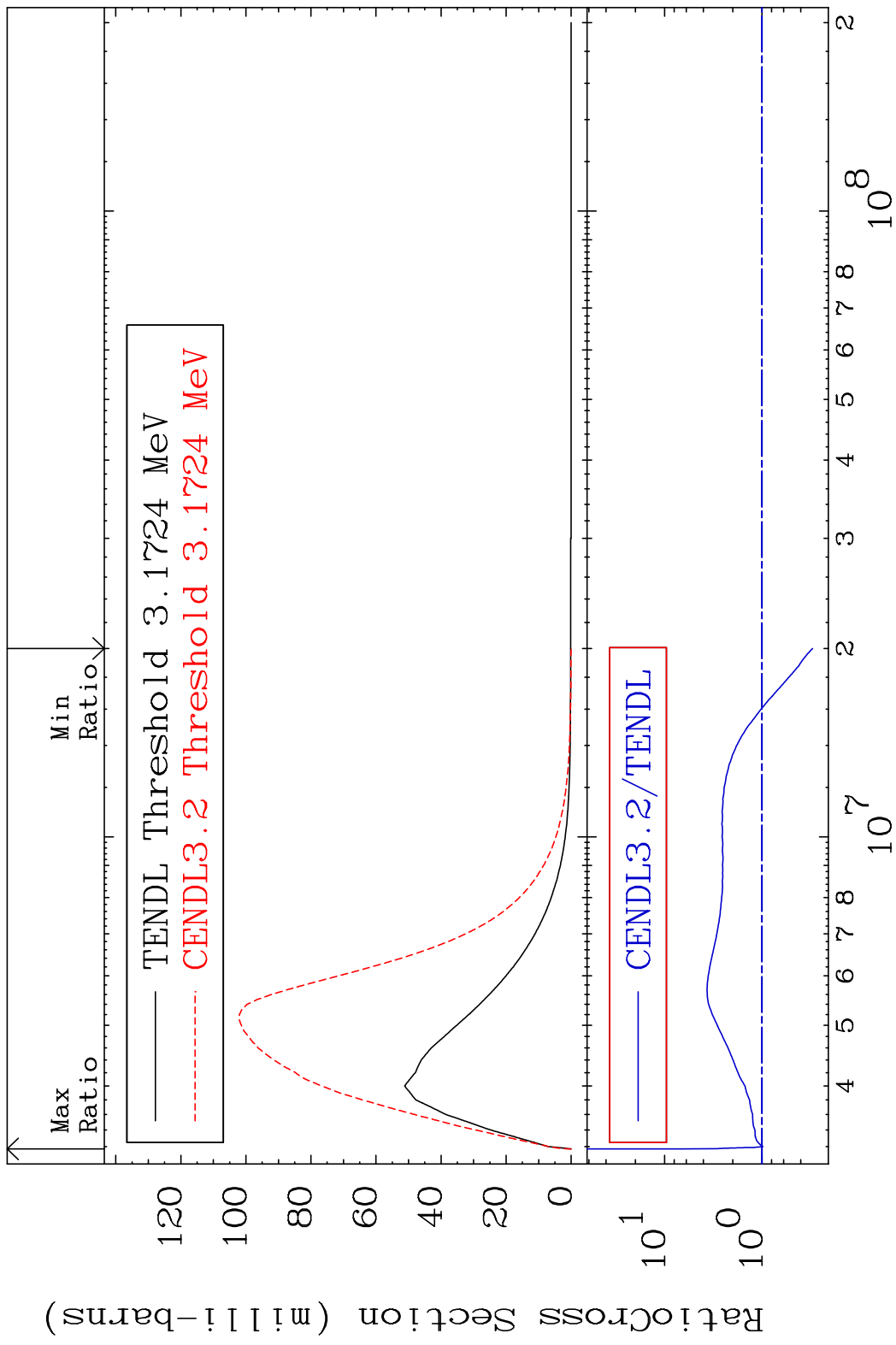


10 100 1000 10000 100000 1000000 10000000 100000000 28-Ni-60

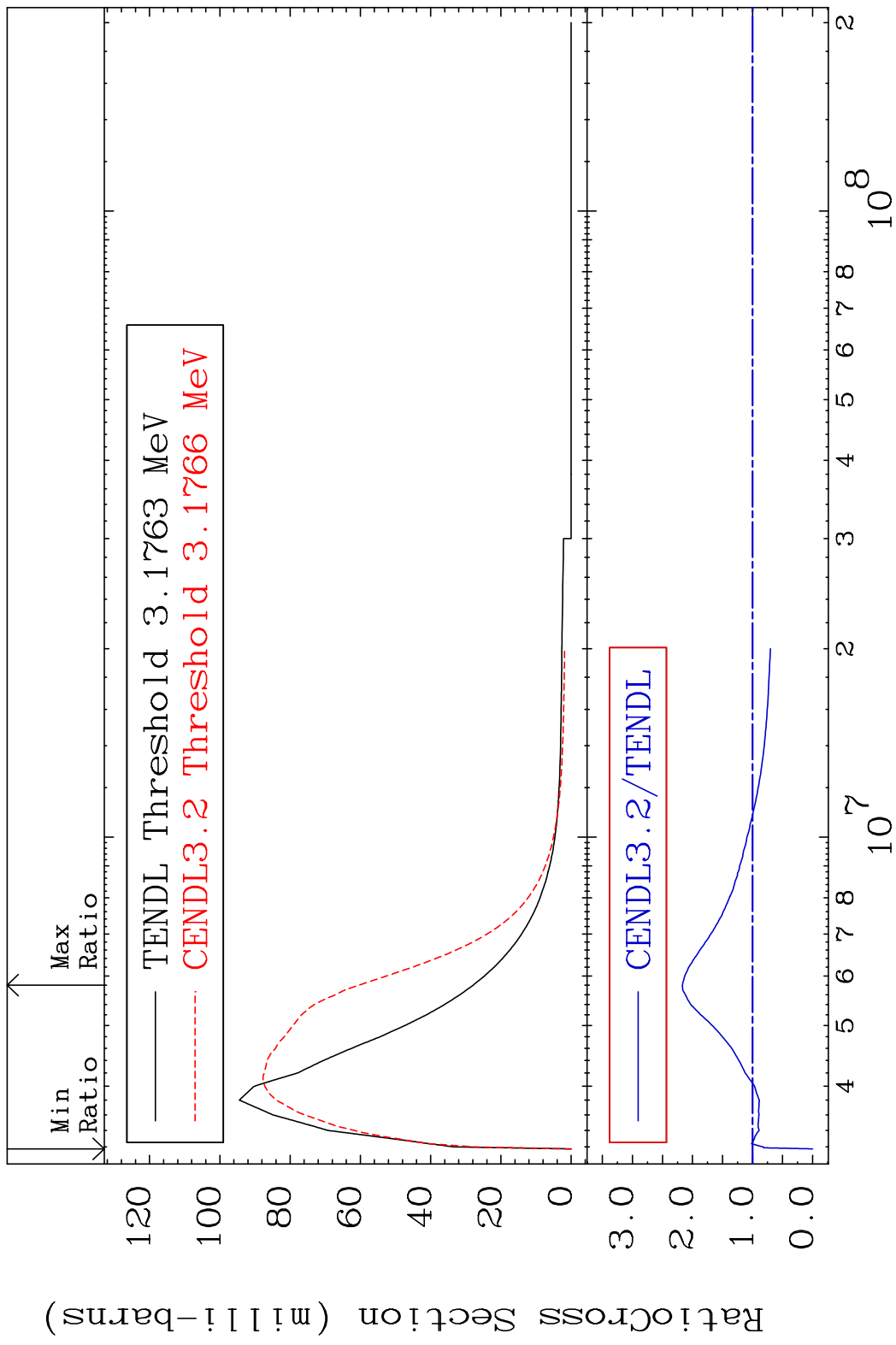
MAT 2831 MT= 55 (n,n') Level 28-Ni-60
 Cross Section -100.0 To 9999. %



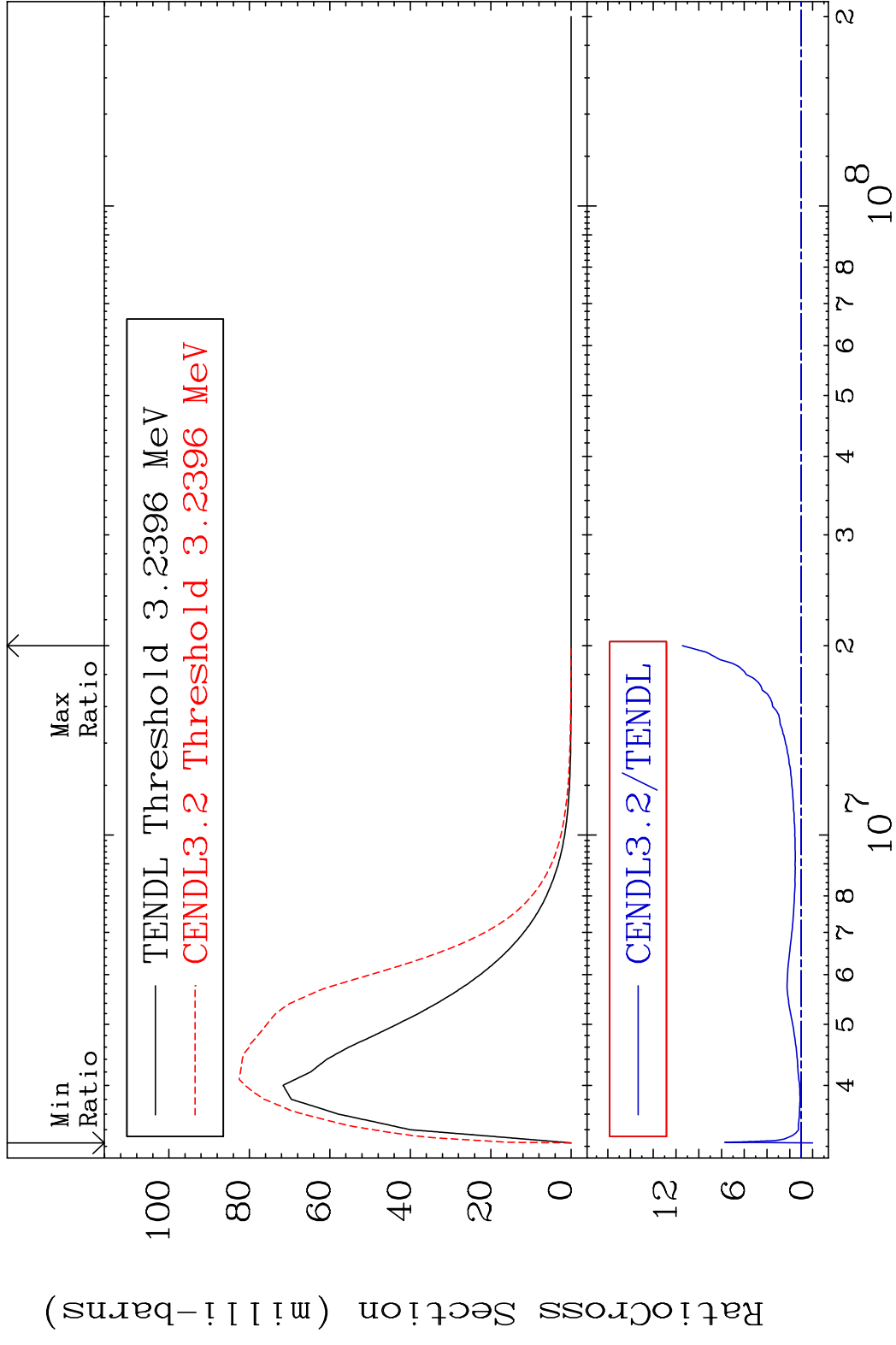
MAT 2831 MT= 56 (n,n') Level 28-Ni-60
 Cross Section -69.76 To 558.5 %



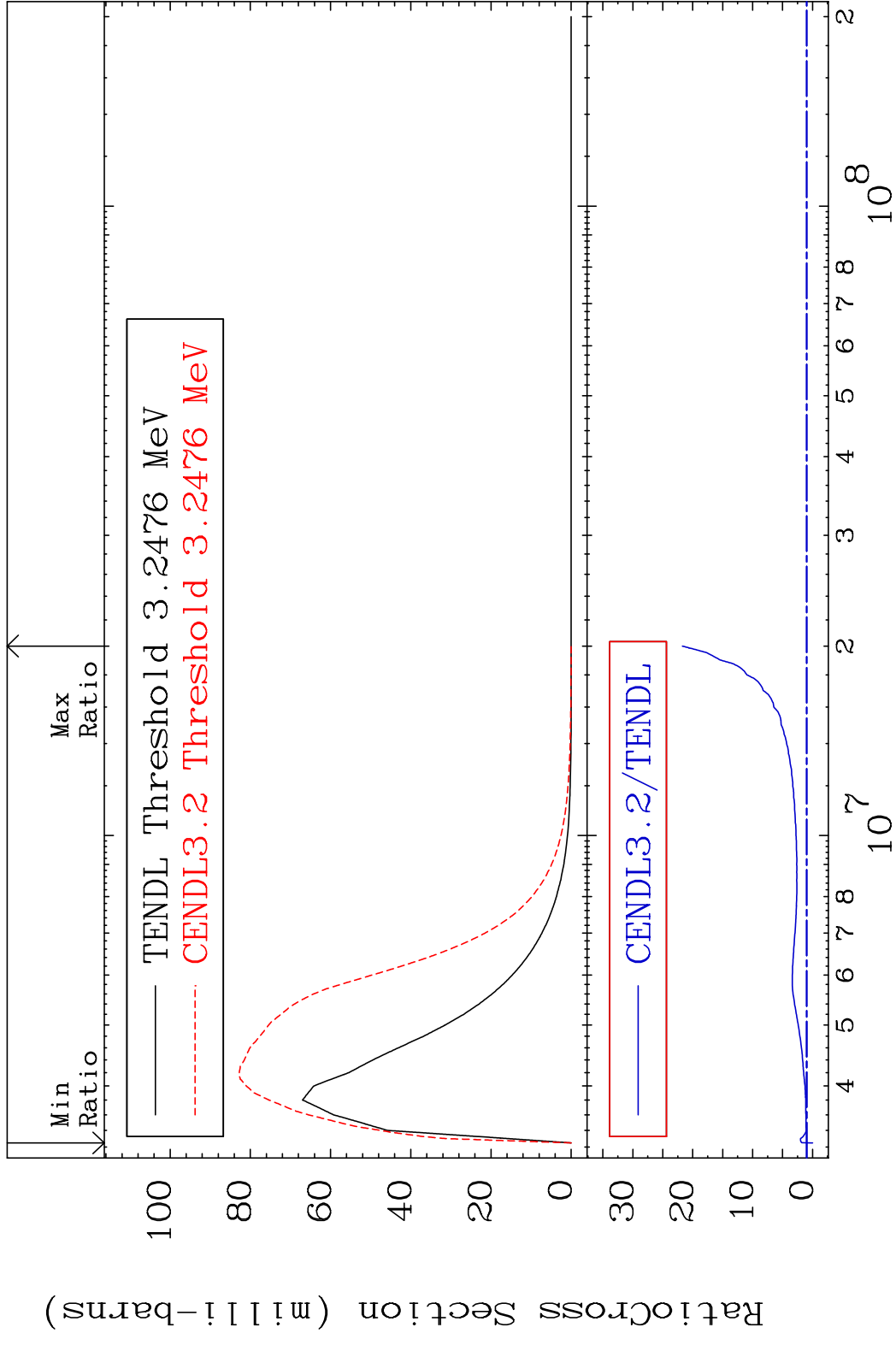
MAT 2831 MT= 57 (n,n') Level 28-Ni-60
 Cross Section -100.0 To 116.9 %



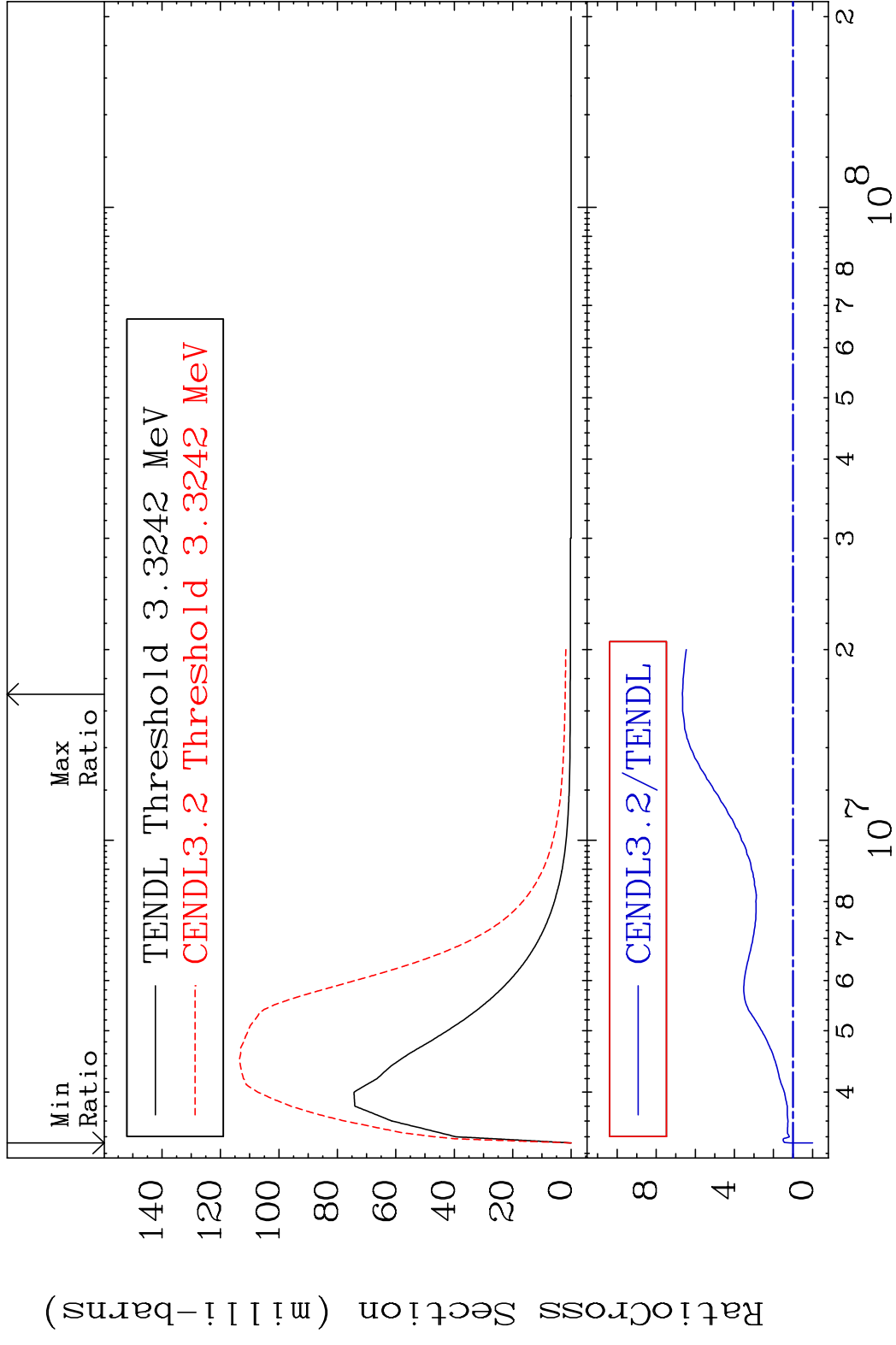
MAT 2831 MT= 58 (n,n') Level 28-Ni-60
 Cross Section -100.0 To 1044. %



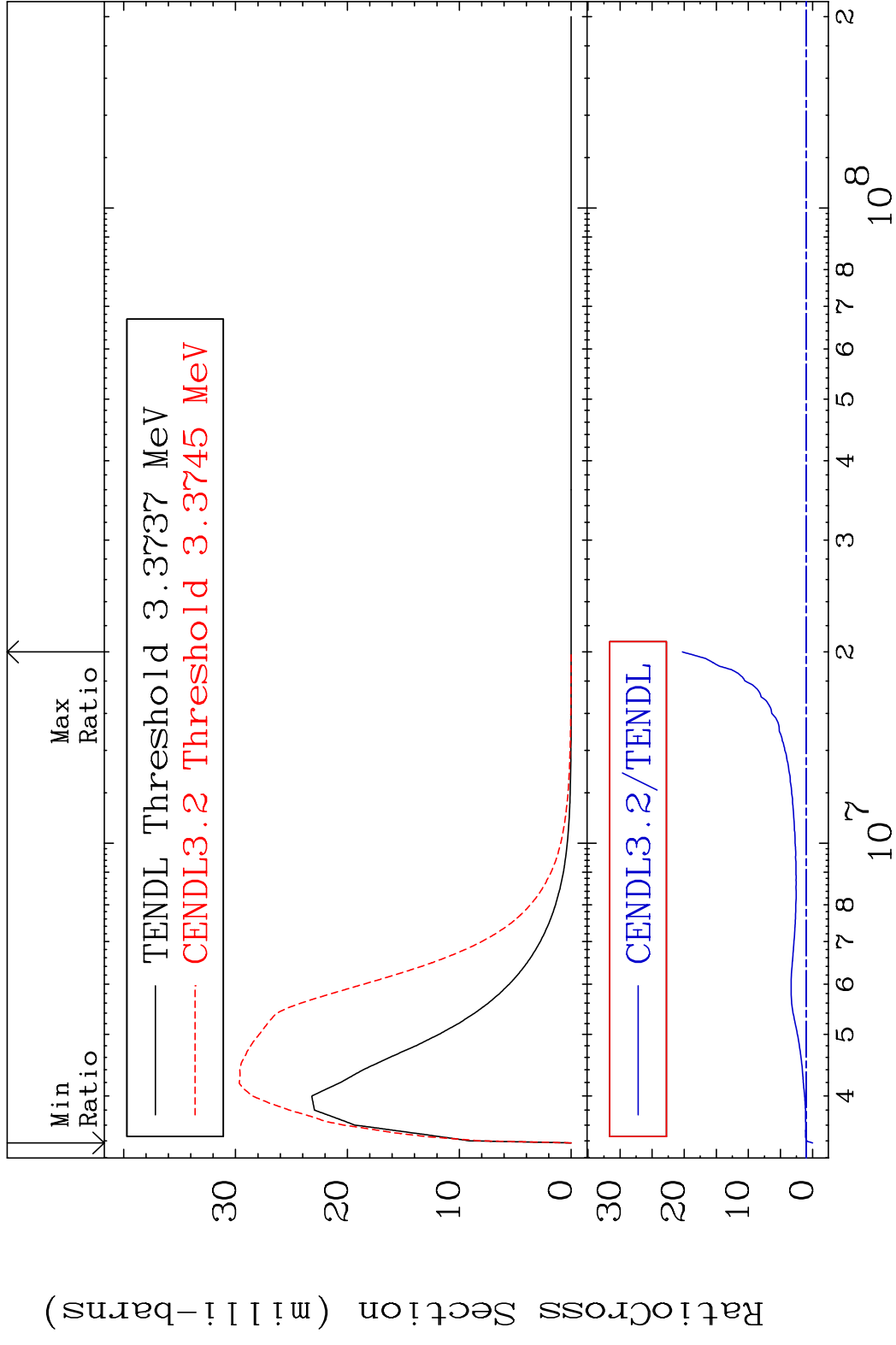
MAT 2831 MT= 59 (n, n') Level 28-Ni-60
 Cross Section -100.0 To 2074. %



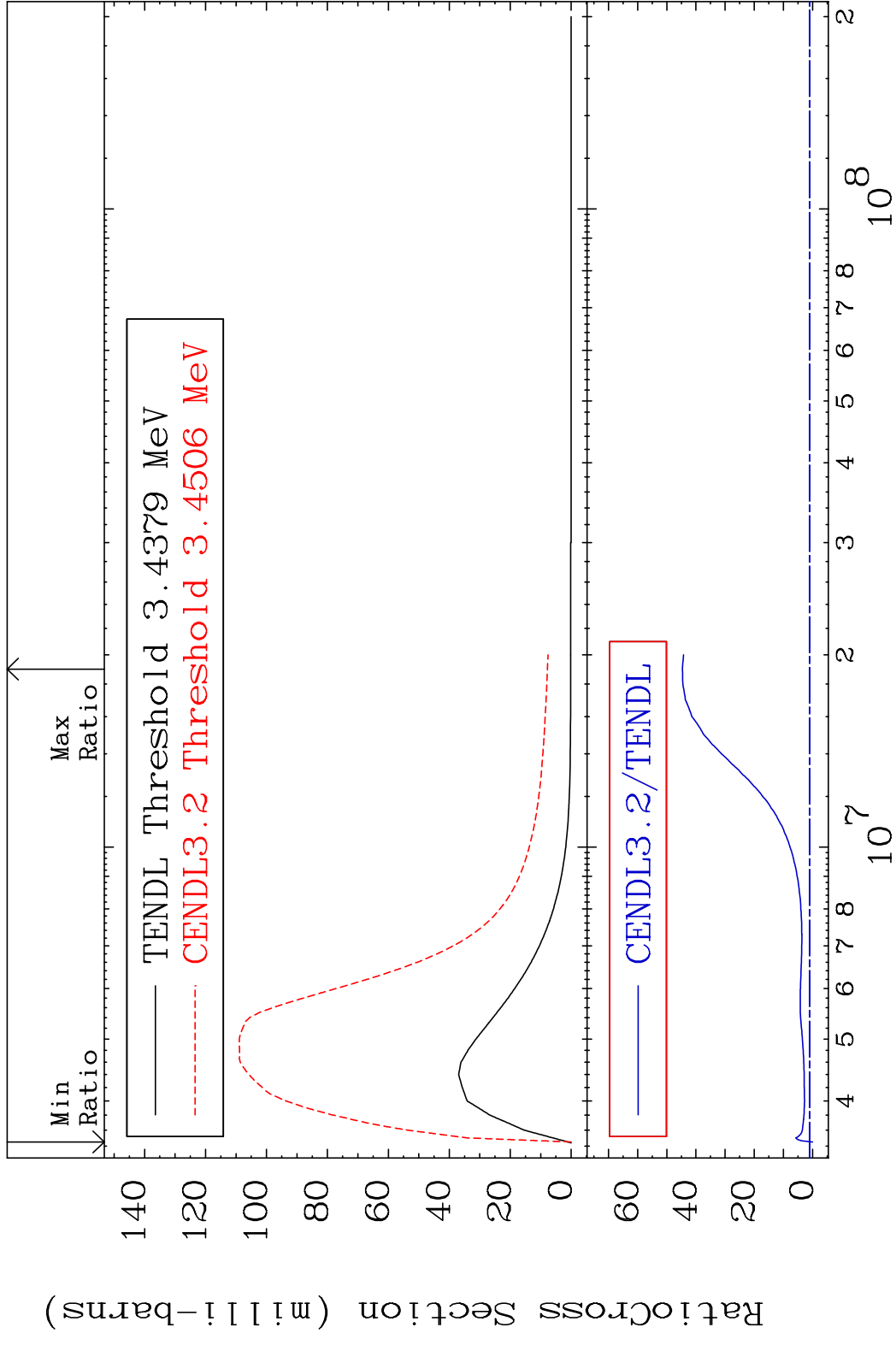
MAT 2831 MT= 60 (n,n') Level 28-Ni-60
 Cross Section -100.0 To 566.5 %



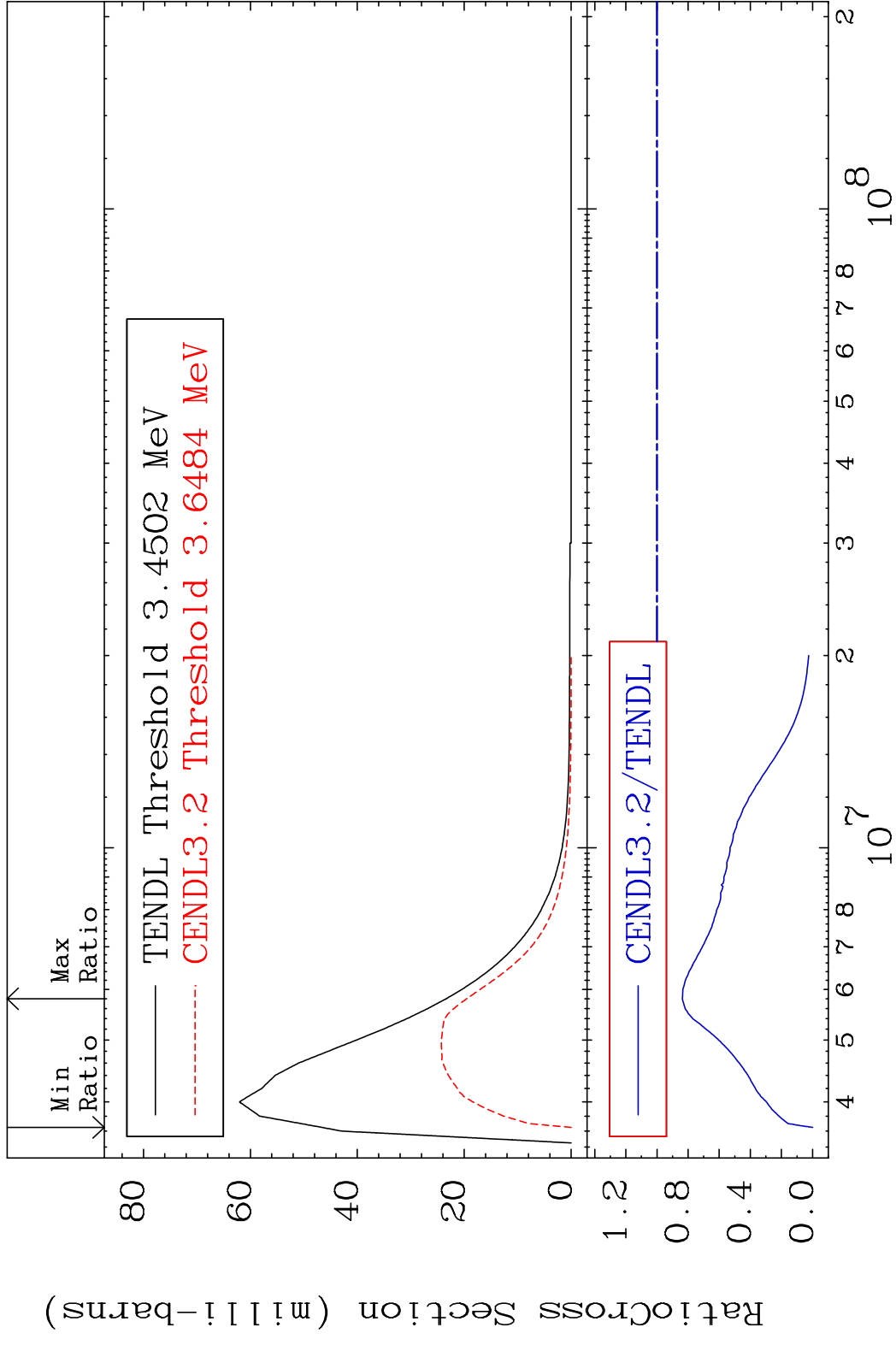
MAT 2831 MT= 61 (n,n') Level 28-Ni-60
 Cross Section -100.0 To 1929. %



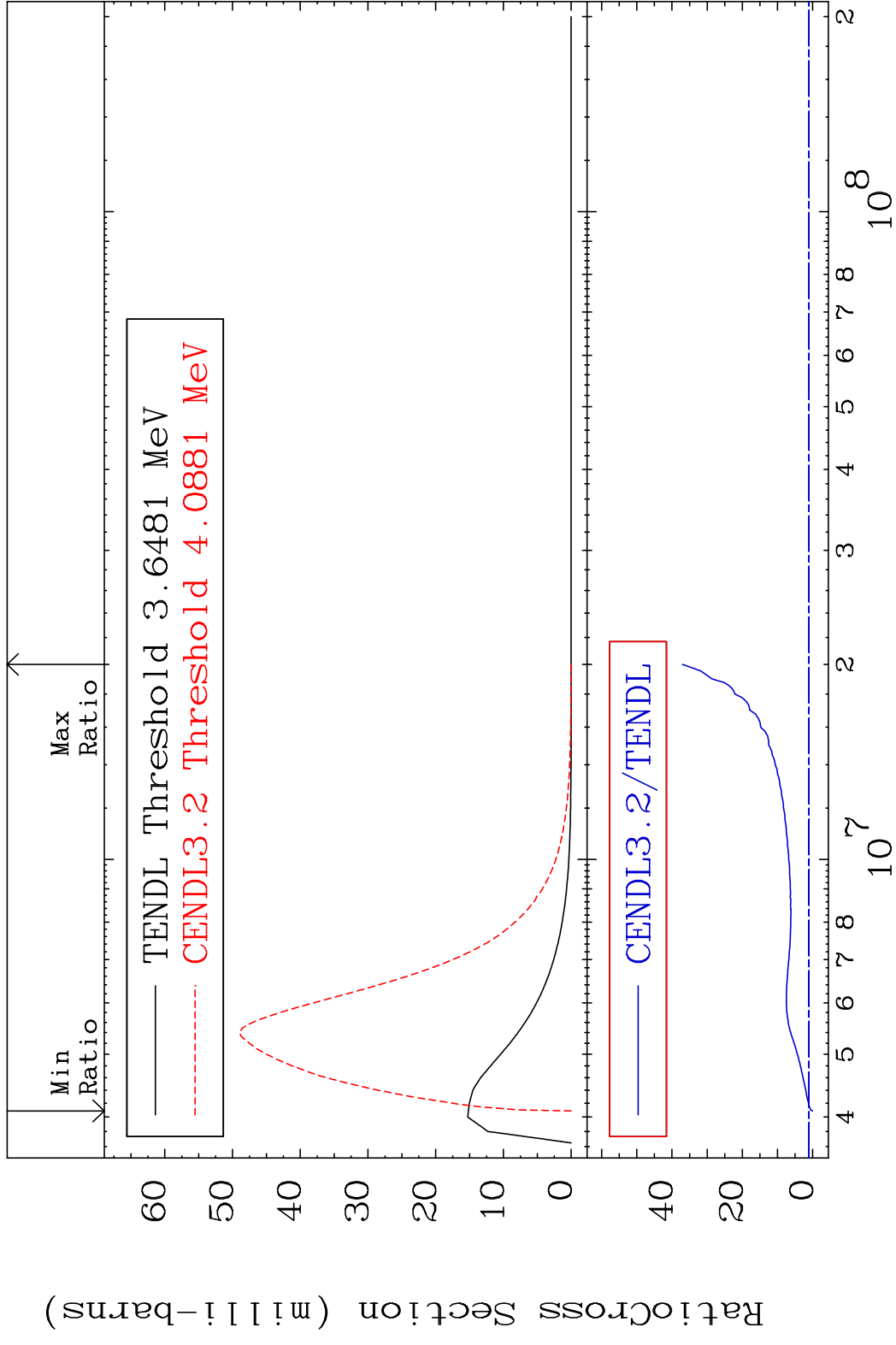
MAT 2831 MT= 62 (n,n') Level 28-Ni-60
 Cross Section -100.0 To 4366. %



MAT 2831 MT= 63 (n, n') Level 28-Ni-60
 Cross Section -100.0 To -16.32%

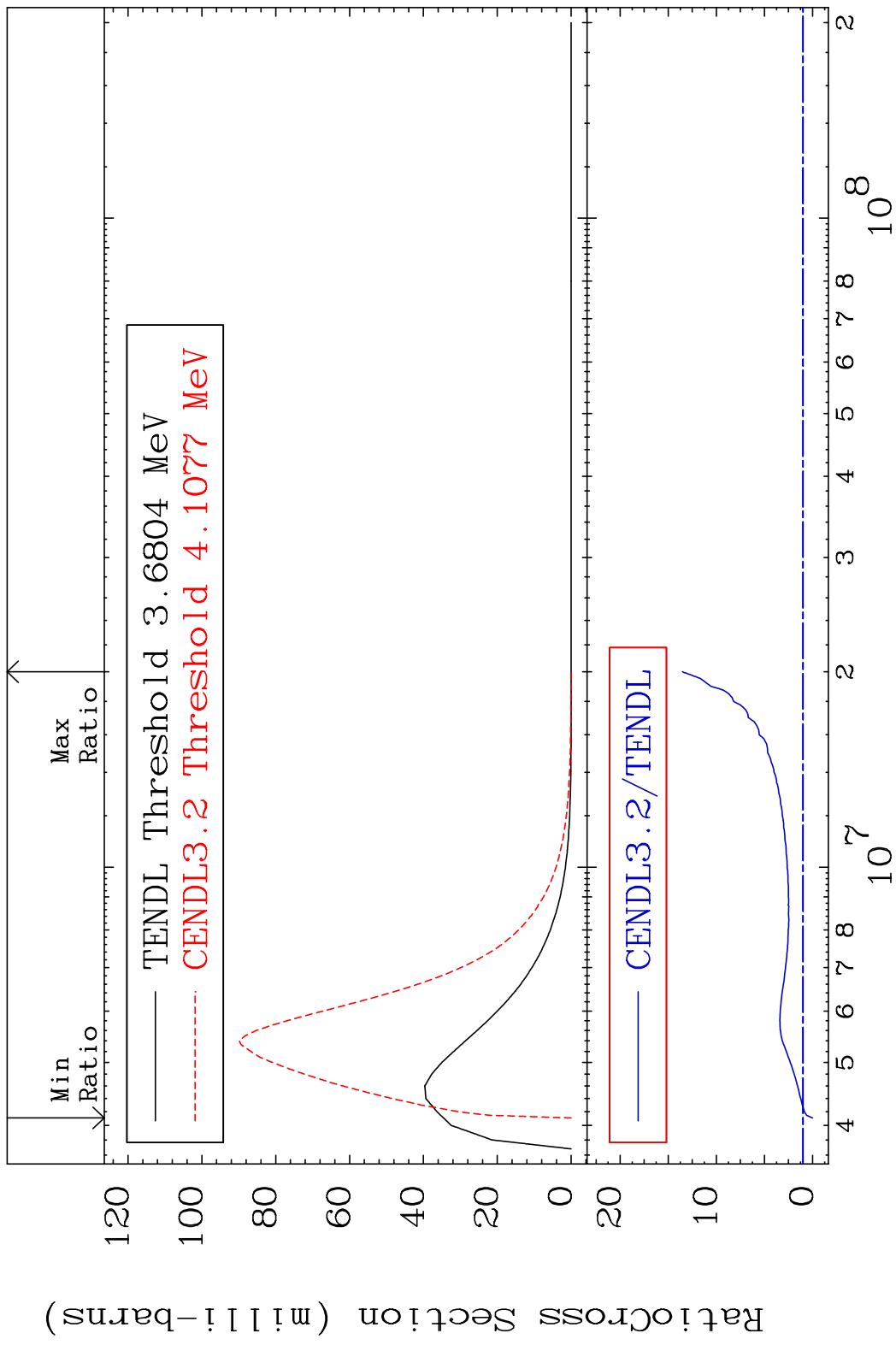


MAT 2831 MT= 64 (n, n') Level 28-Ni-60
 Cross Section -100.0 To 3605. %

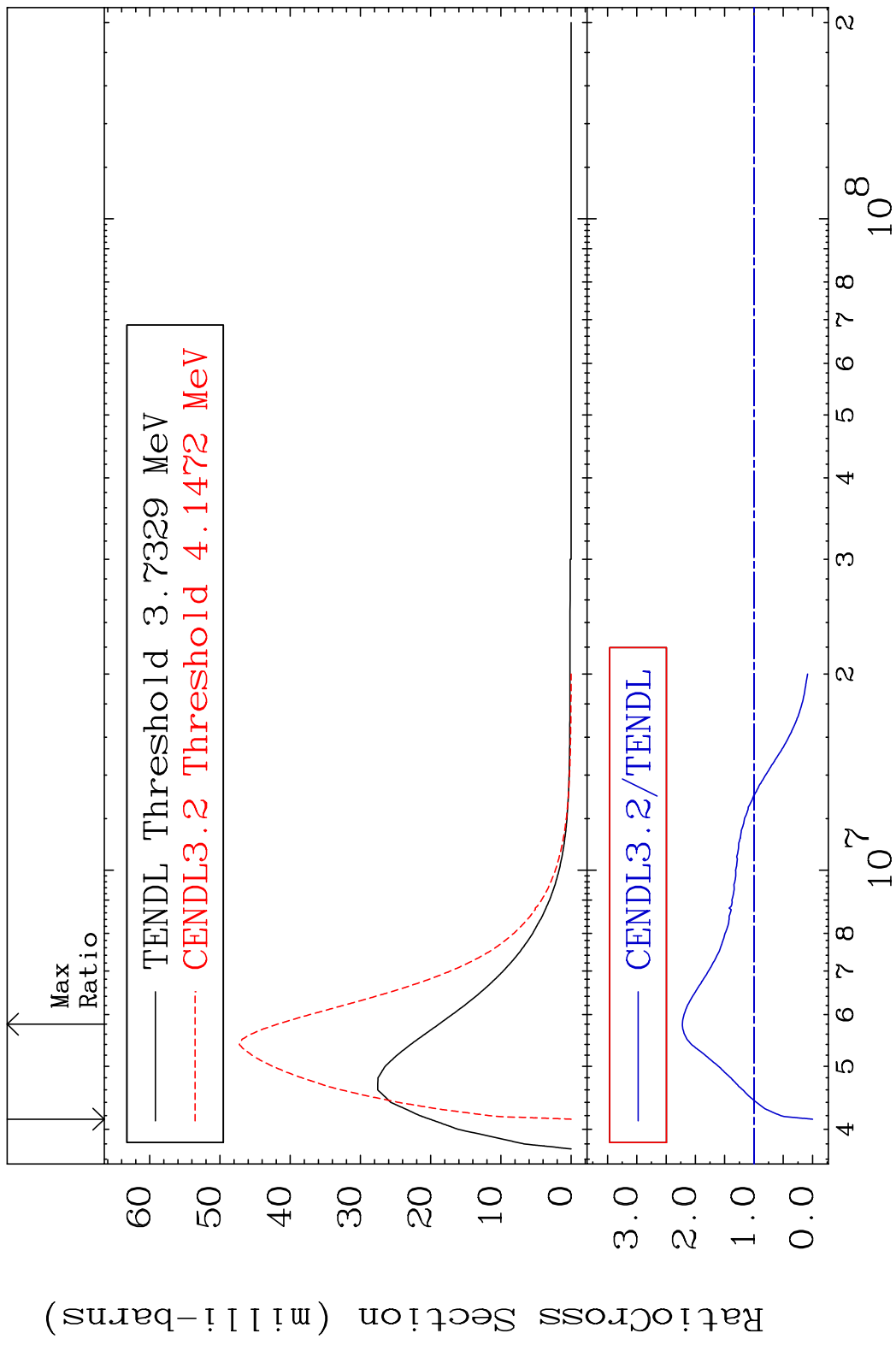


20 Incident Energy (eV) 28-Ni-60

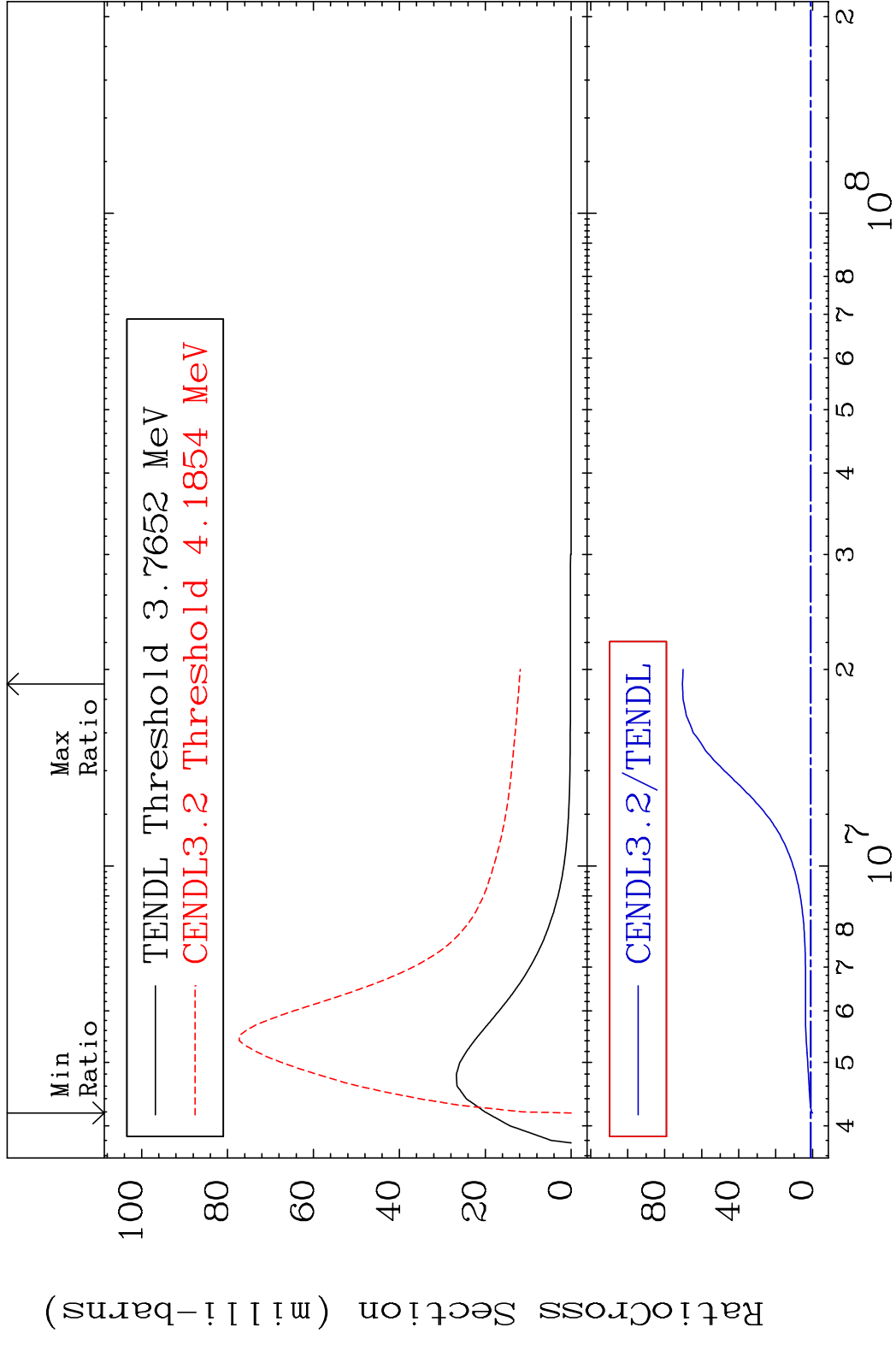
MAT 2831 MT= 65 (n,n') Level 28-Ni-60
 Cross Section -100.0 To 1253. %



MAT 2831 MT= 66 (n,n') Level 28-Ni-60
 Cross Section -100.0 To 122.2 %

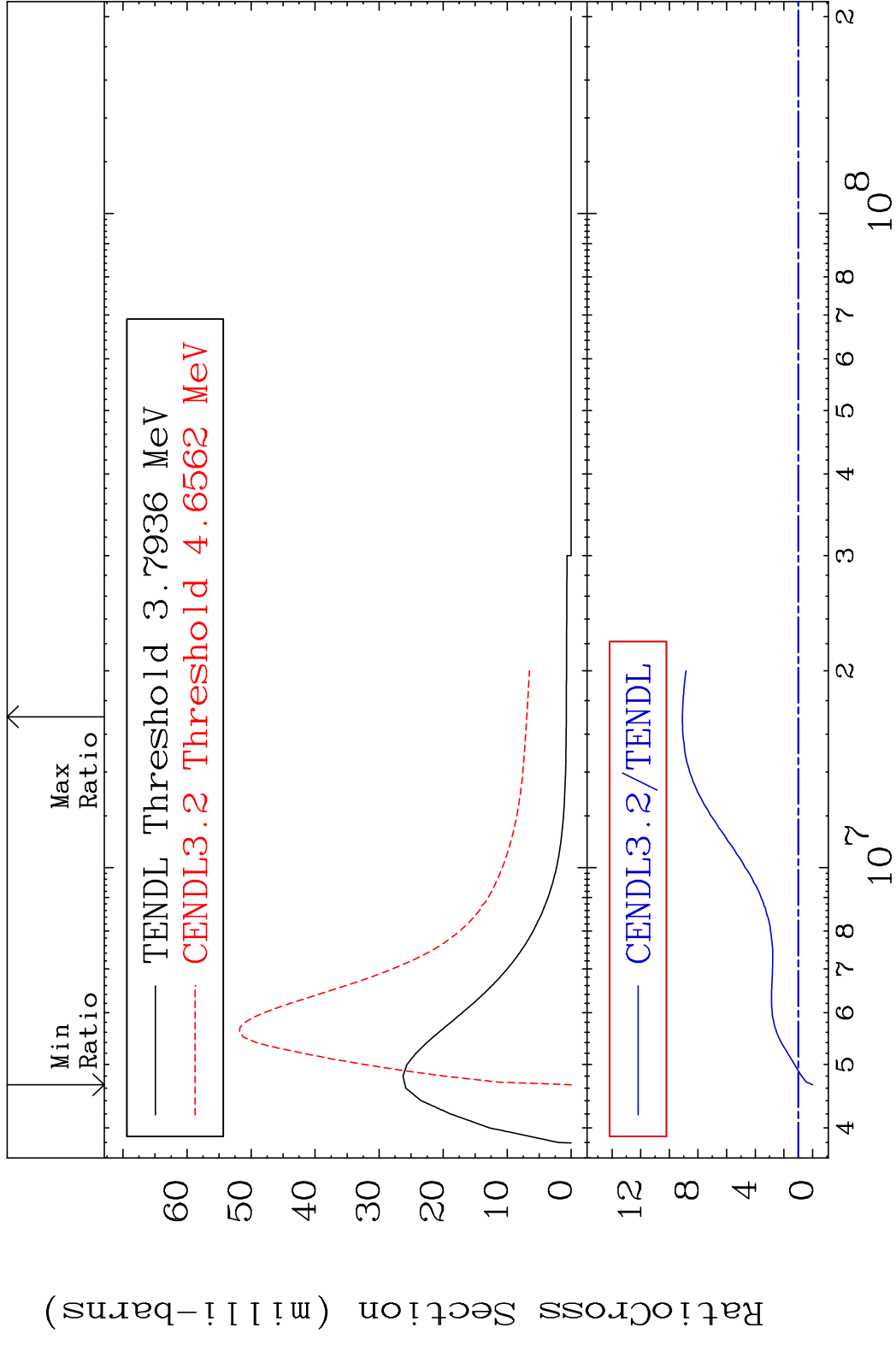


MAT 2831 MT= 67 (n, n') Level 28-Ni-60
 Cross Section -100.0 To 6945. %



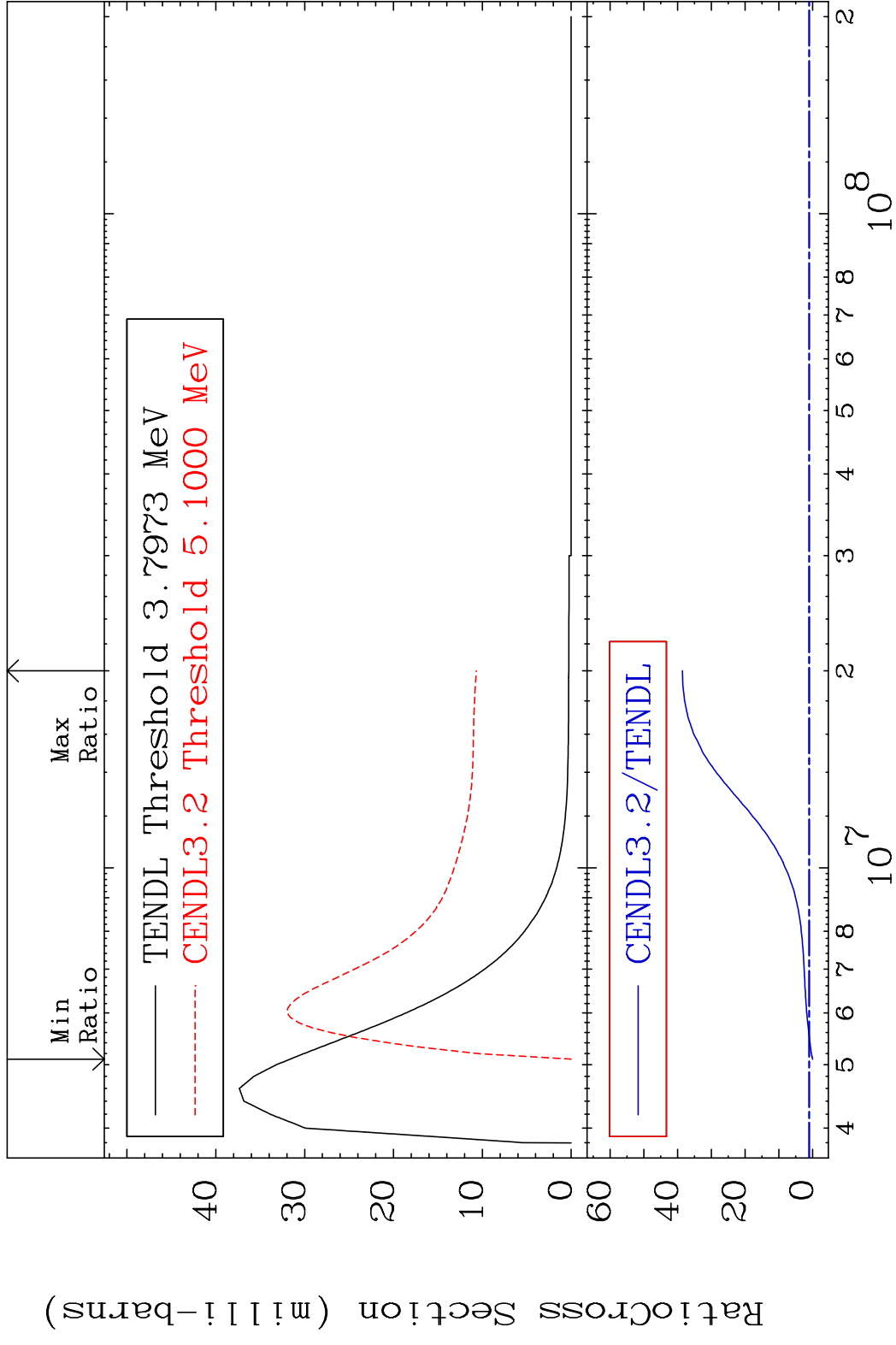
23 Incident Energy (eV) 28-Ni-60

MAT 2831 MT= 68 (n,n') Level 28-Ni-60
 Cross Section -100.0 To 809.2 %



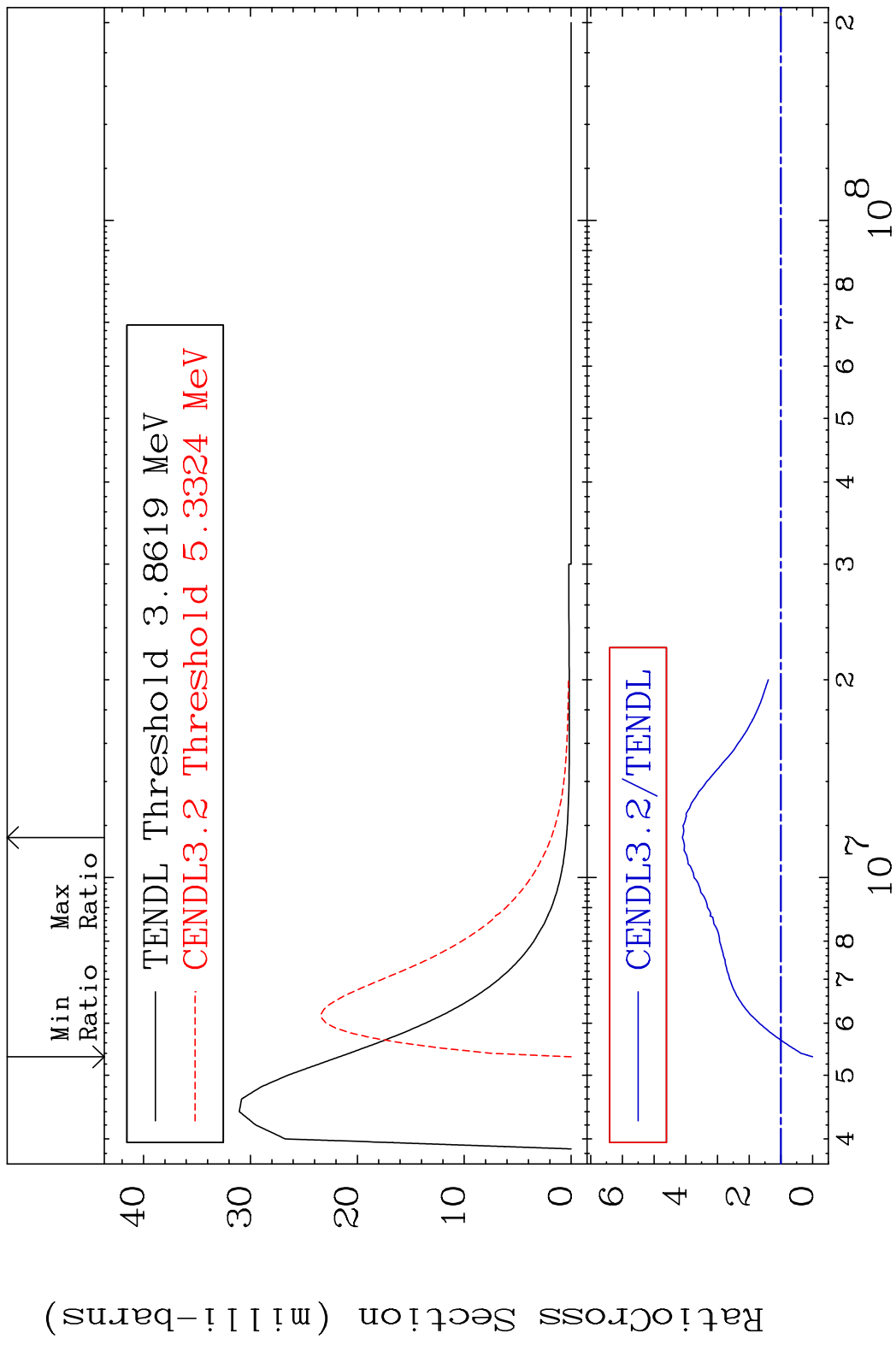
24 Incident Energy (eV) 28-Ni-60

MAT 2831 MT= 69 (n, n') Level 28-Ni-60
 Cross Section -100.0 To 3759. %



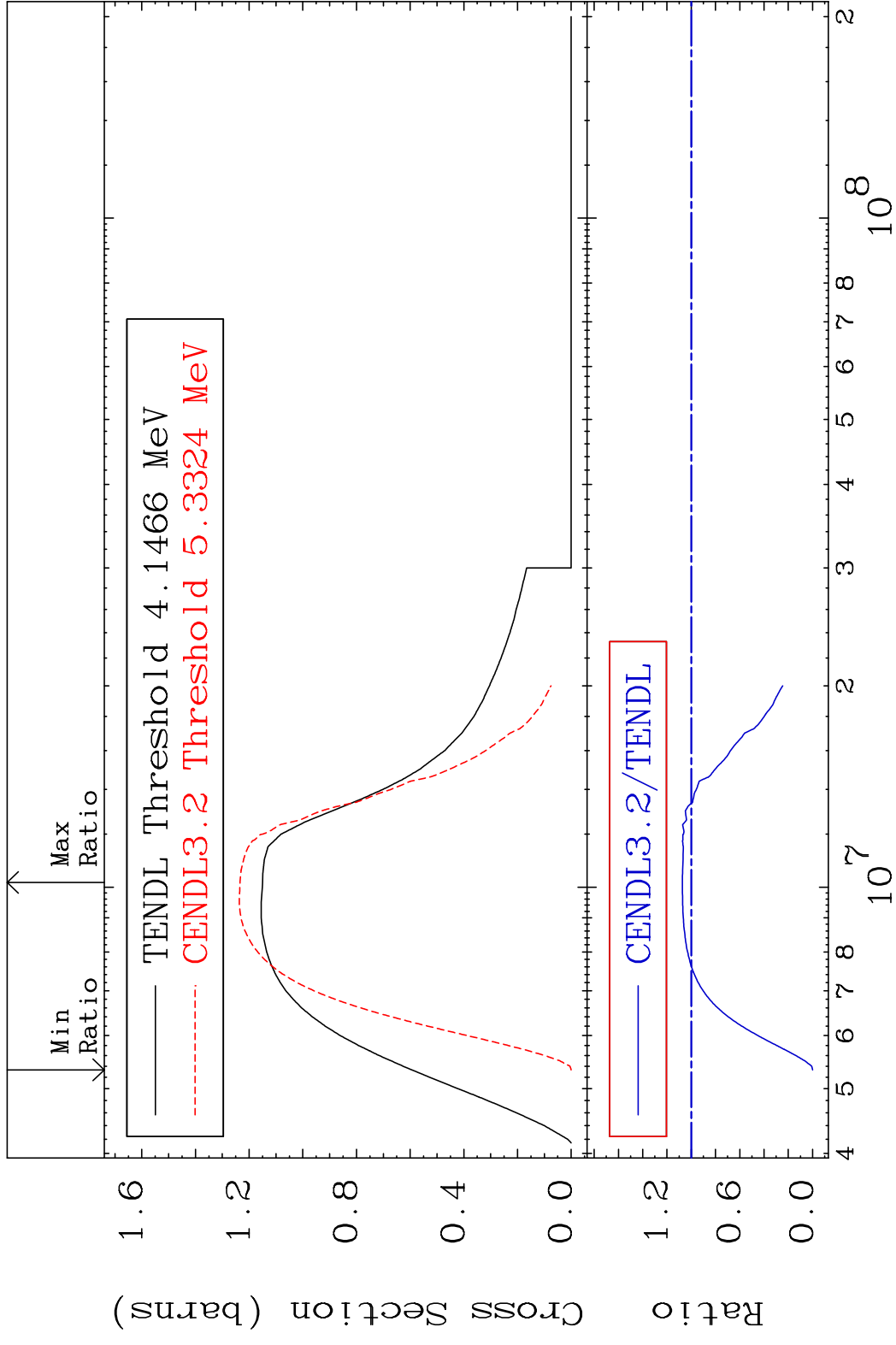
25 Incident Energy (eV) 28-Ni-60

MAT 2831 MT= 70 (n, n') Level 28-Ni-60
 Cross Section -100.0 To 310.6 %



26 Incident Energy (eV) 28-Ni-60

MAT 2831 (n,n') Continuum 28-Ni-60
 Cross Section -100.0 To 7.309 %

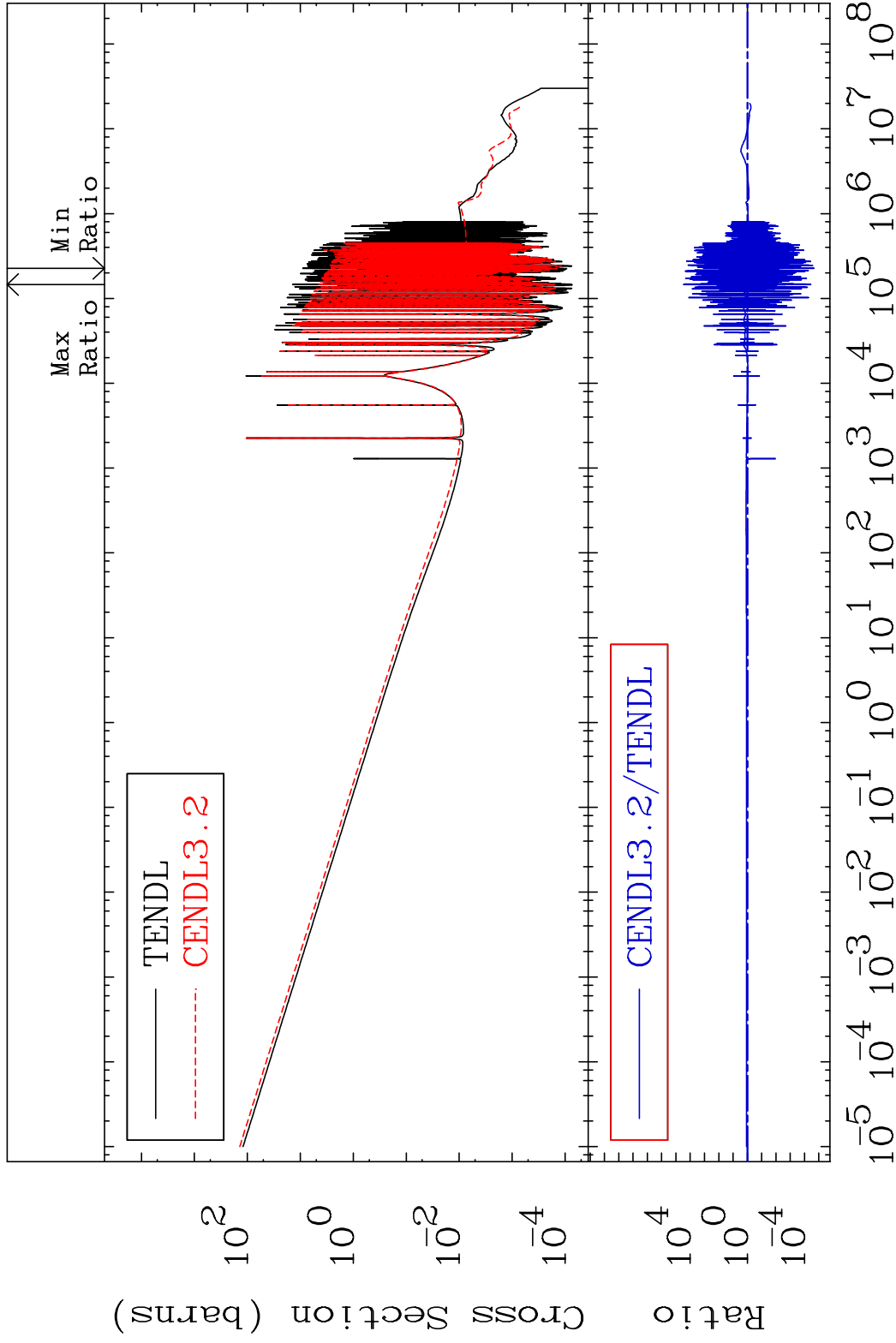


MAT 2831

(n, γ)

28-Ni-60

Cross Section -100.0 To 9999. %

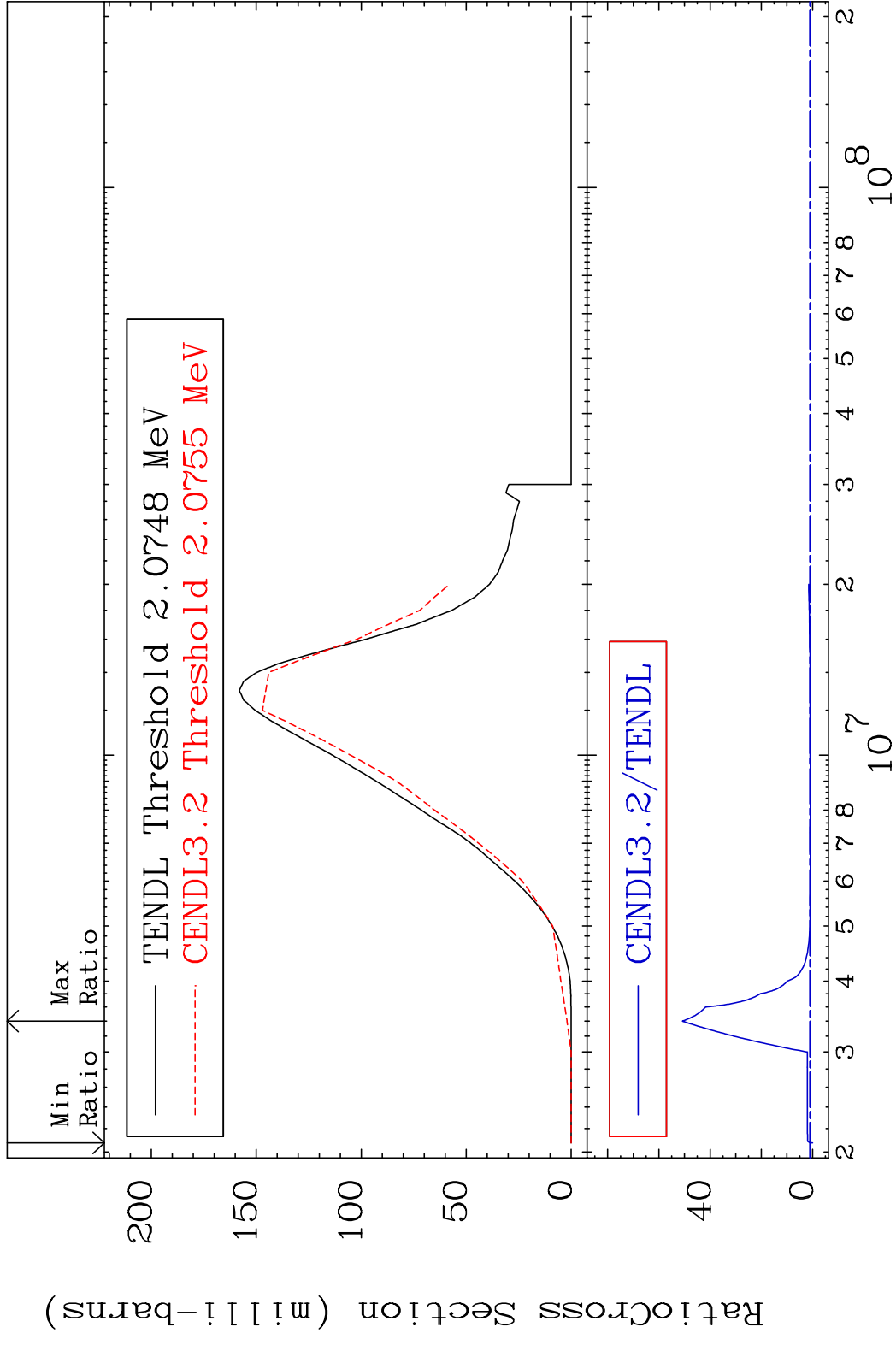


28

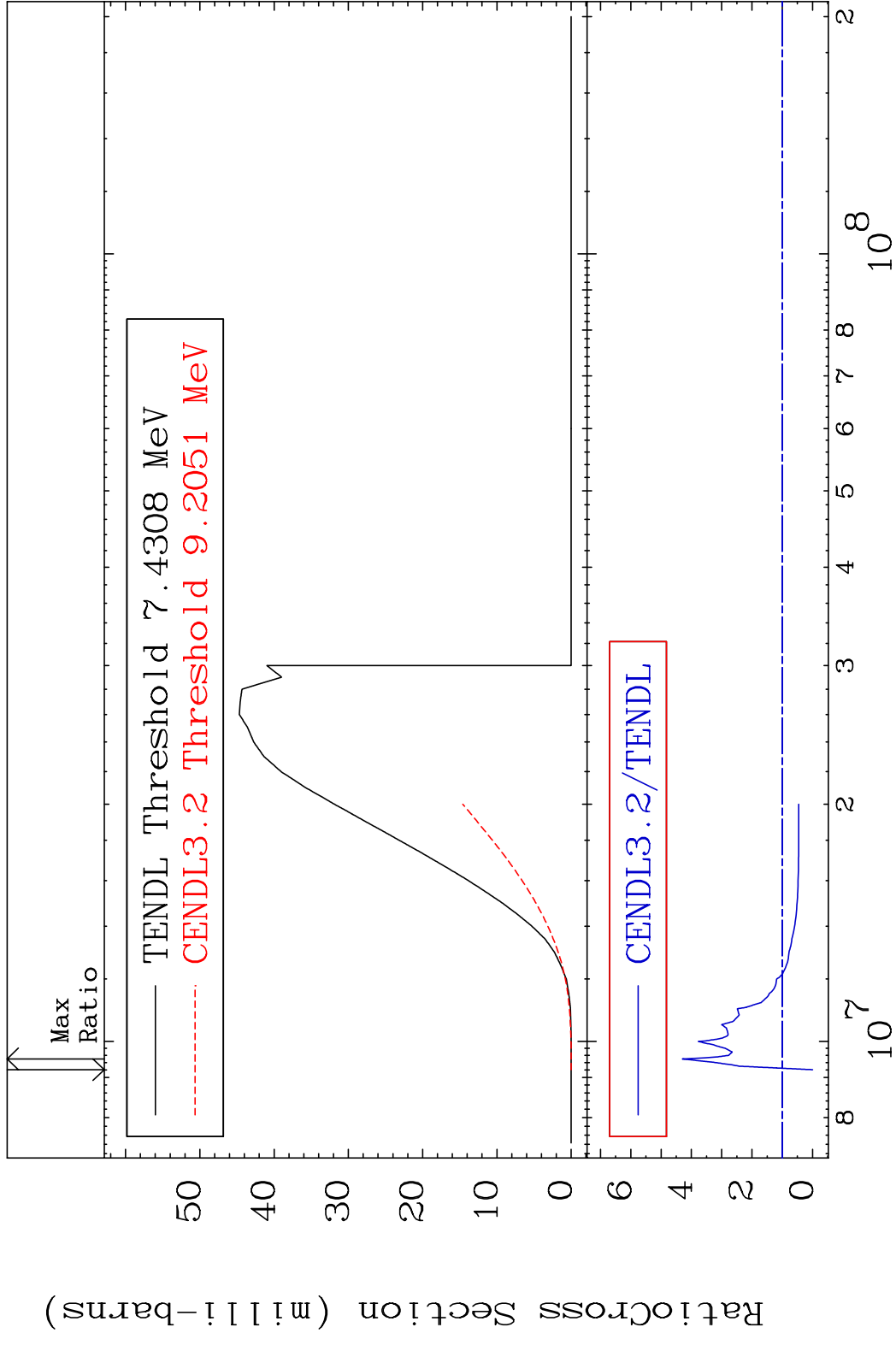
Incident Energy (eV)

28-Ni-60

MAT 2831 (n,p) 28-Ni-60
 Cross Section -100.0 To 4984. %

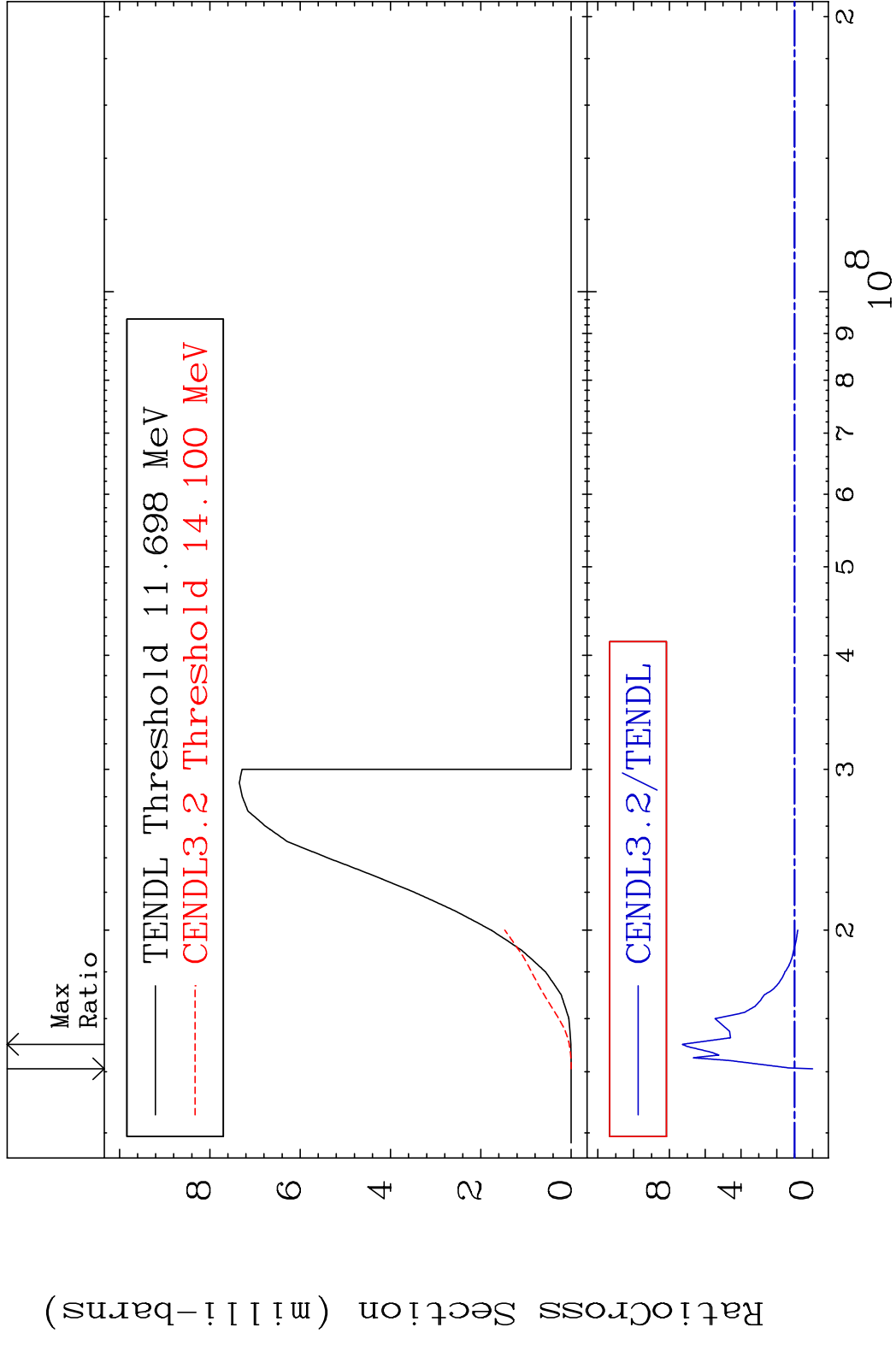


MAT 2831 (n,d) 28-Ni-60
 Cross Section -100.0 To 329.8 %



30 28-Ni-60

MAT 2831 (n, t) 28-Ni-60
 Cross Section -100.0 To 627.7 %

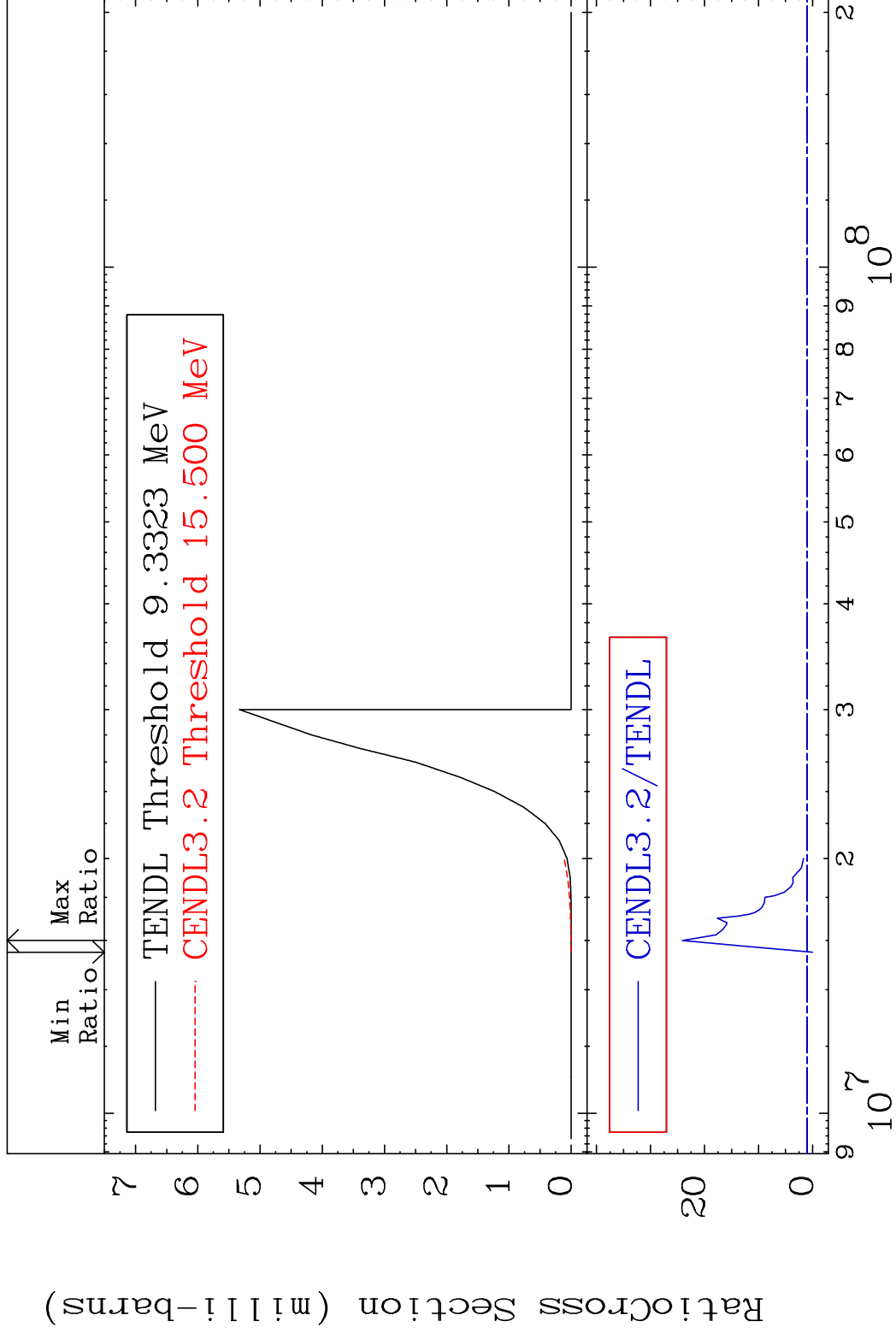


MAT 2831

(n, He-3)

28-Ni-60

Cross Section -100.0 To 2311. %



32

Incident Energy (eV)

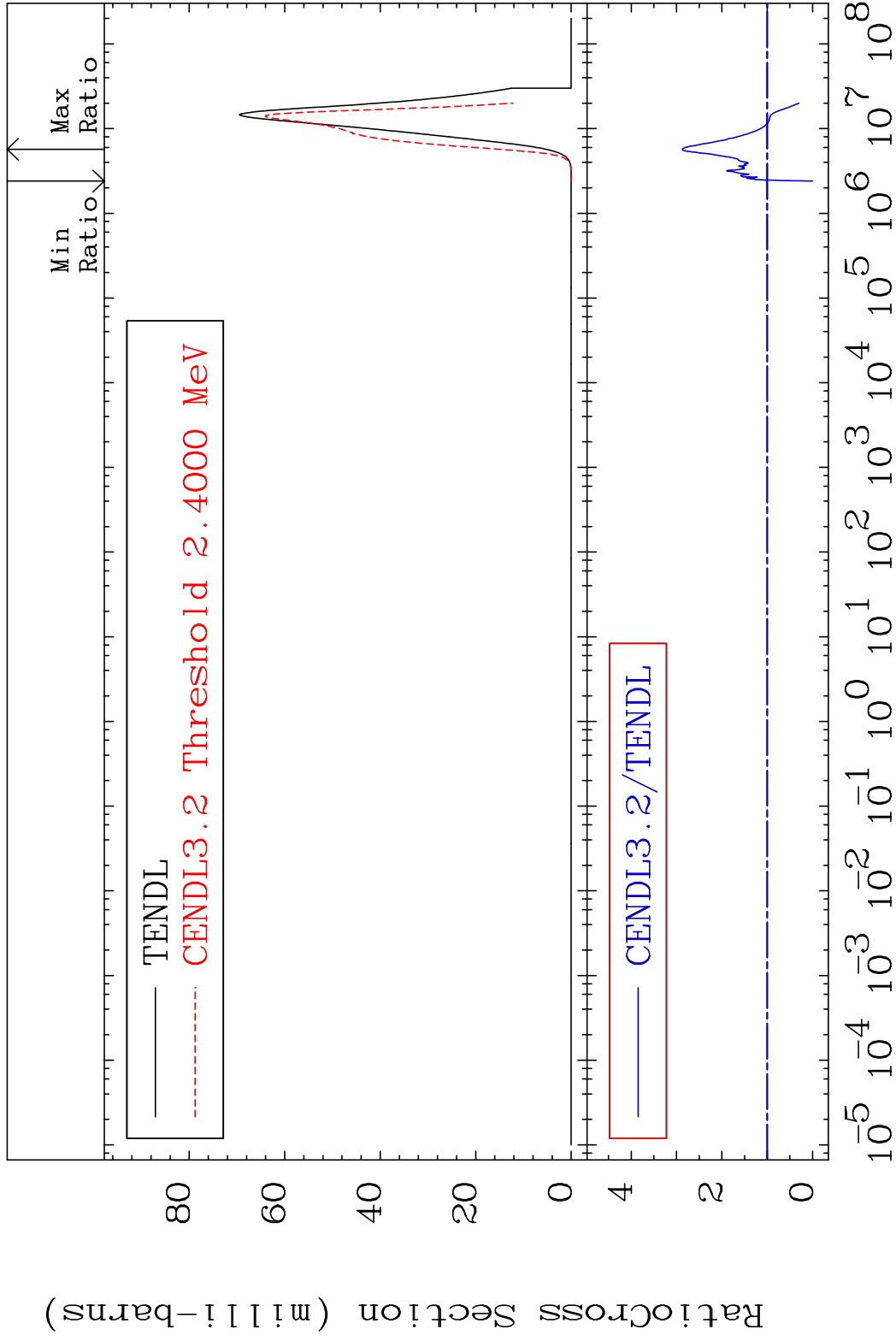
28-Ni-60

MAT 2831

(n, α)

28-Ni-60

Cross Section -100.0 To 187.2 %

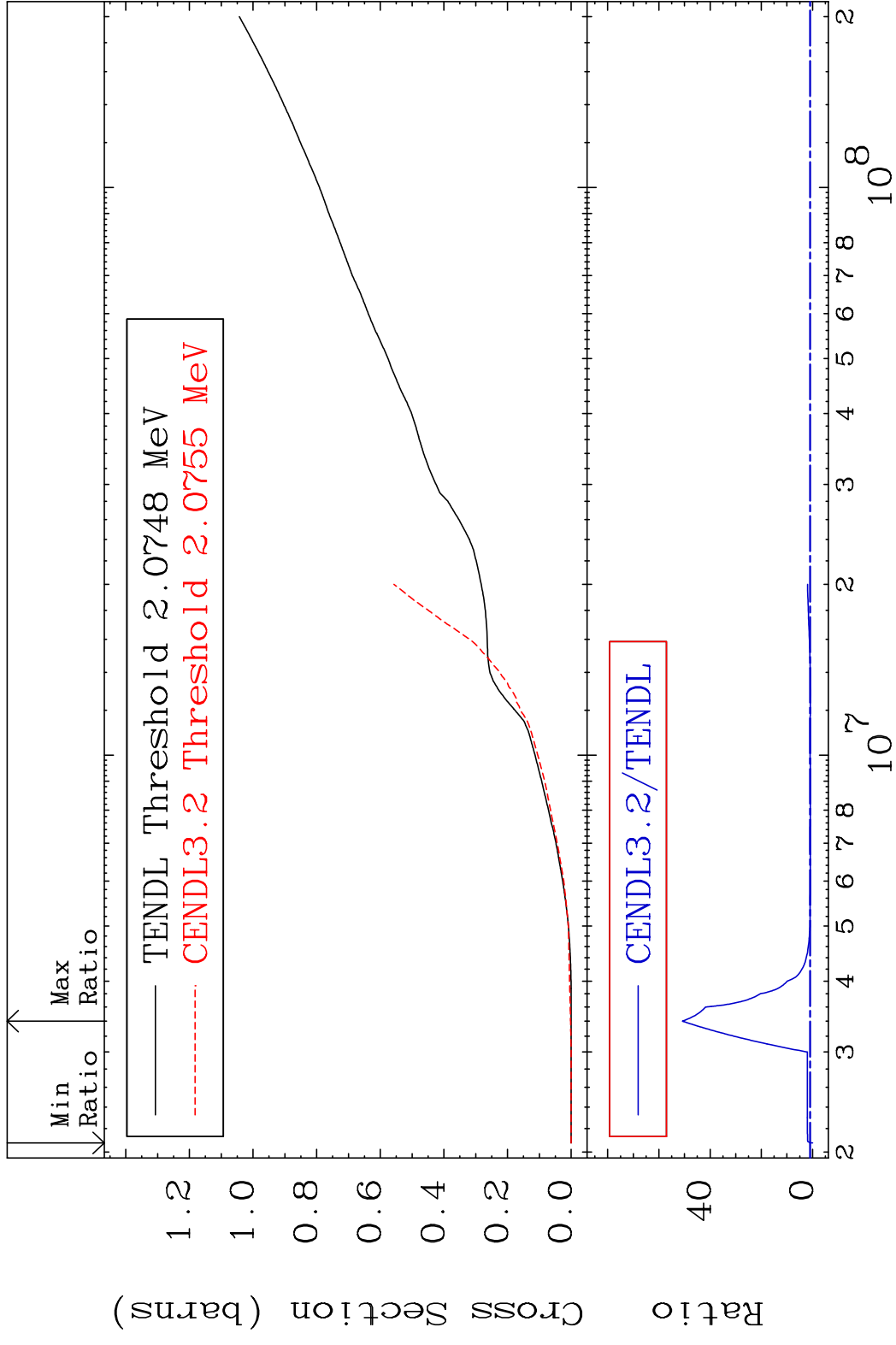


33

Incident Energy (eV)

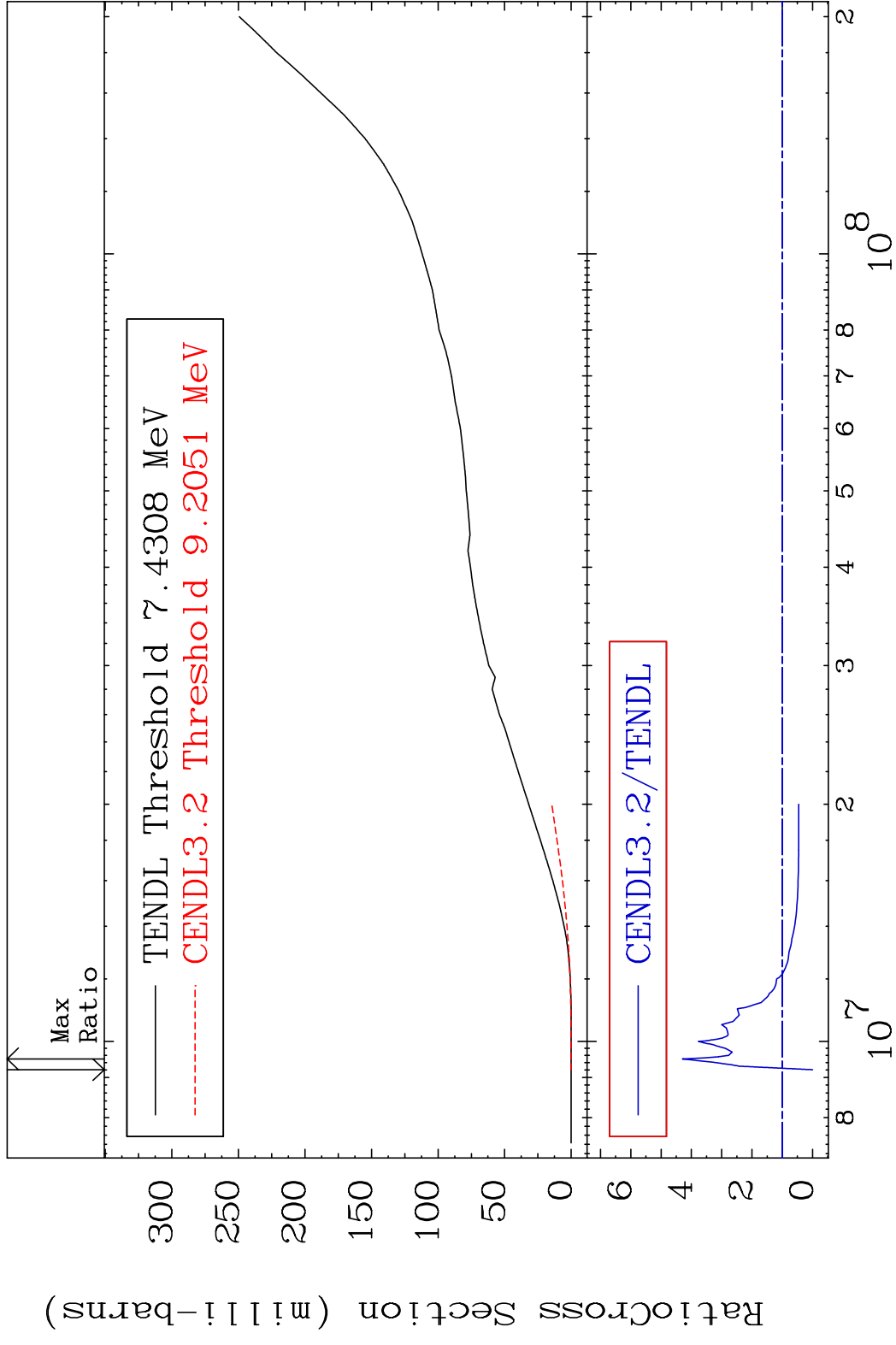
28-Ni-60

MAT 2831 Hydrogen Production 28-Ni-60
 Cross Section -100.0 To 4984. %

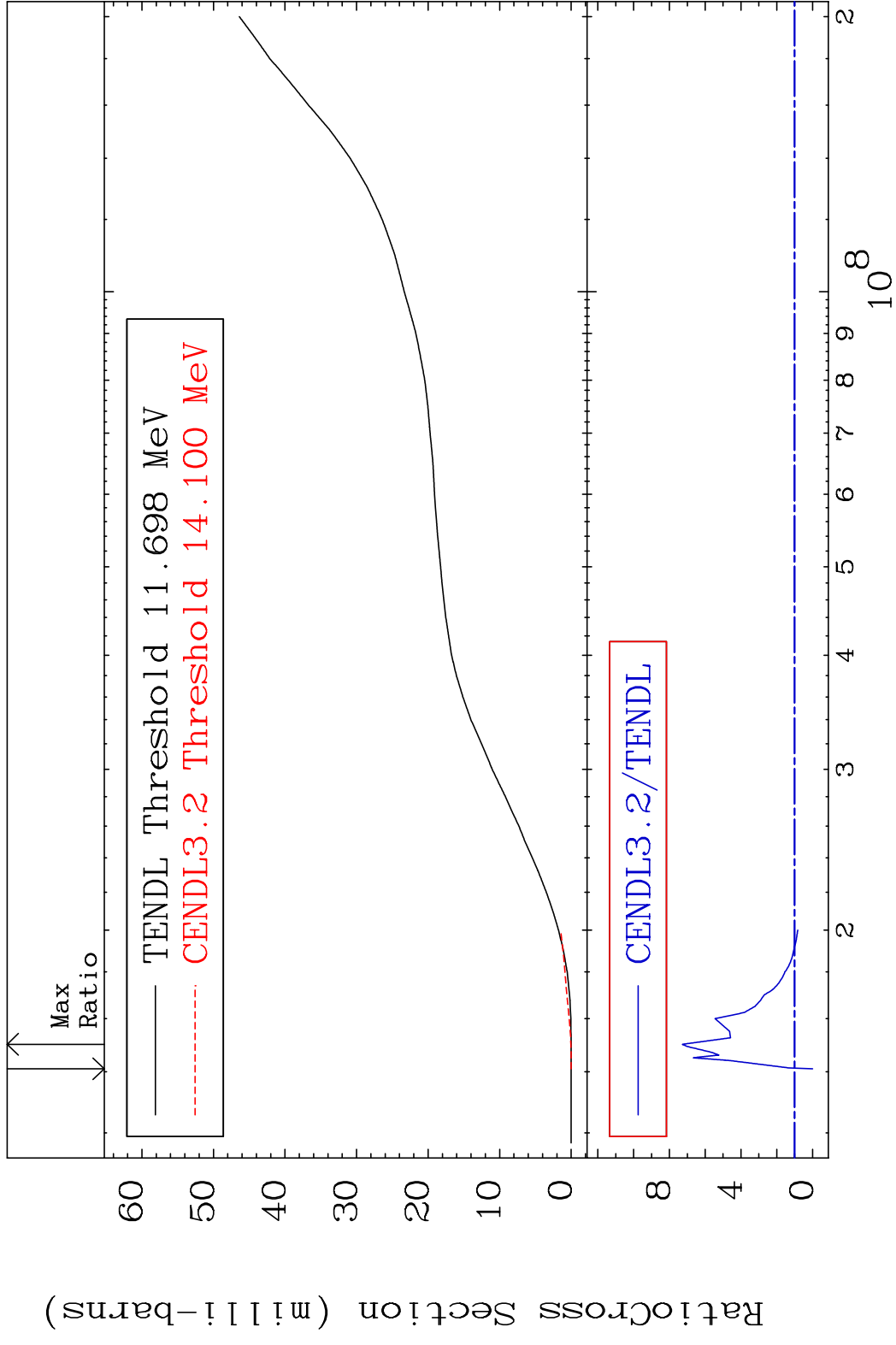


34 Incident Energy (eV) 28-Ni-60

MAT 2831 Deuterium Production 28-Ni-60
 Cross Section -100.0 To 329.8 %



MAT 2831 Tritium Production 28-Ni-60
 Cross Section -100.0 To 627.7 %

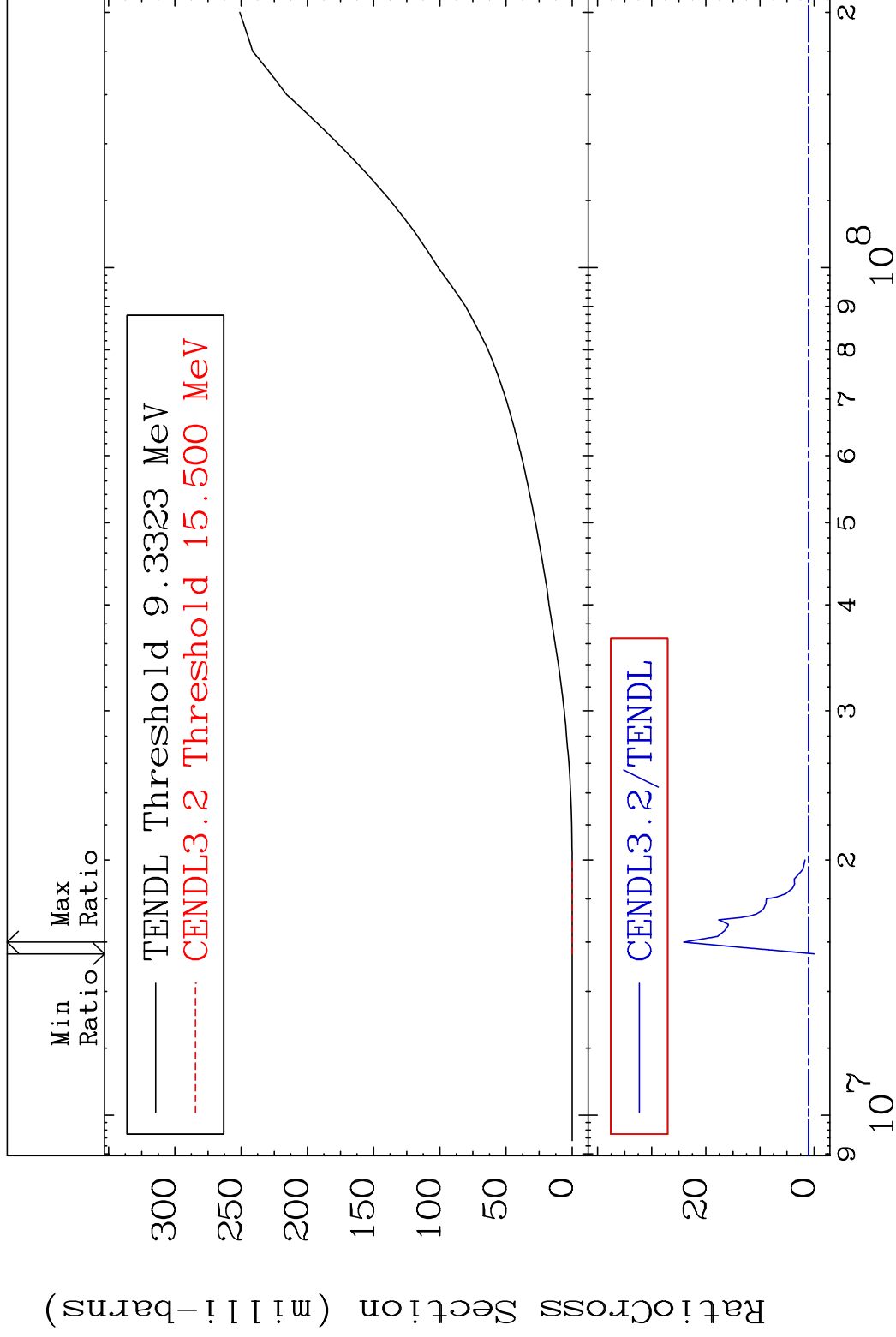


MAT 2831

He-3 Production

²⁸Ni-60

Cross Section -100.0 To 2311. %



37

Incident Energy (eV)

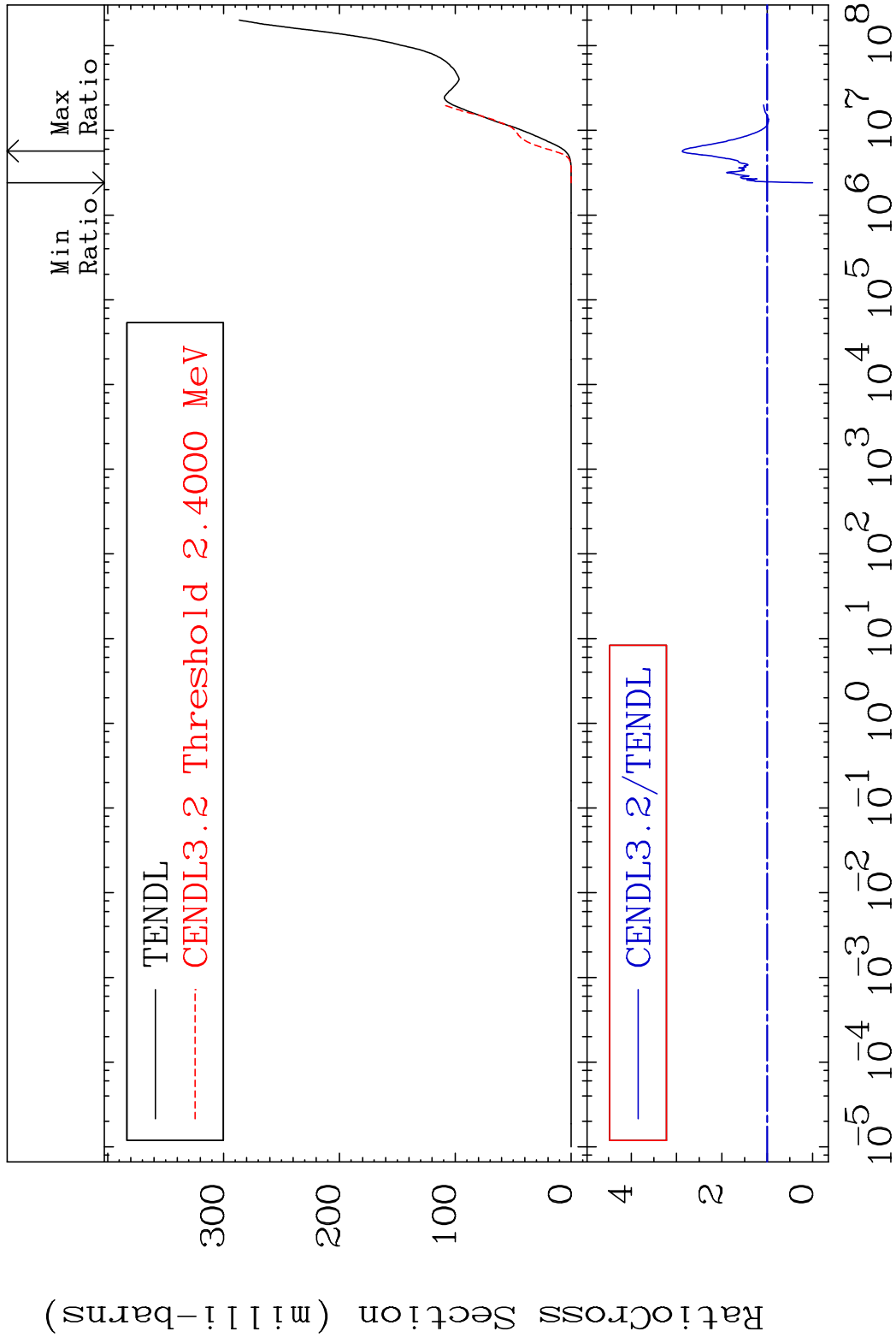
²⁸Ni-60

MAT 2831

He-4 Production

28-Ni-60

Cross Section -100.0 To 187.2 %

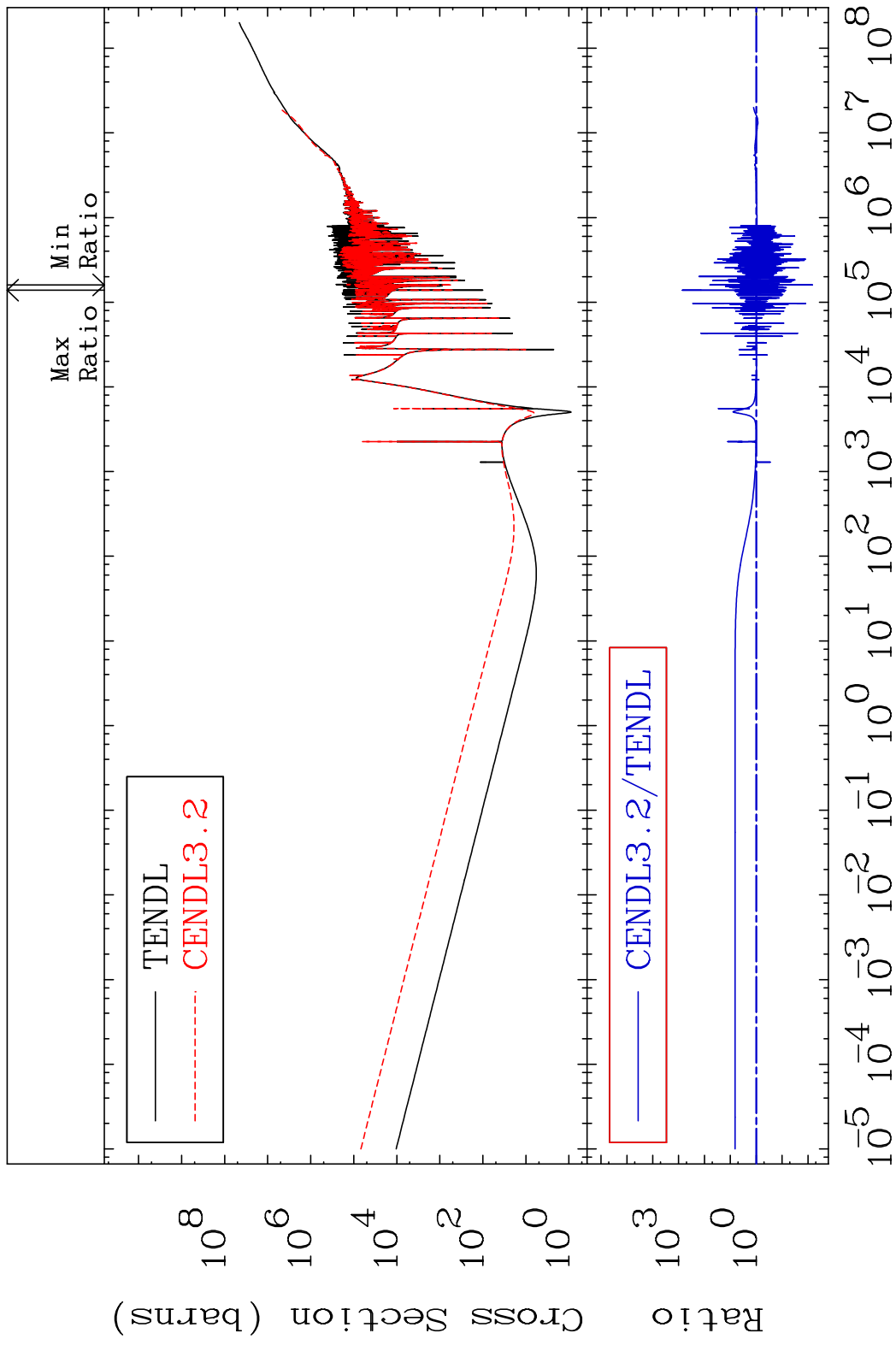


38

Incident Energy (eV)

28-Ni-60

MAT 2831 Kerma total (eV-barns) 28-Ni-60
 Cross Section -99.34 To 9999. %

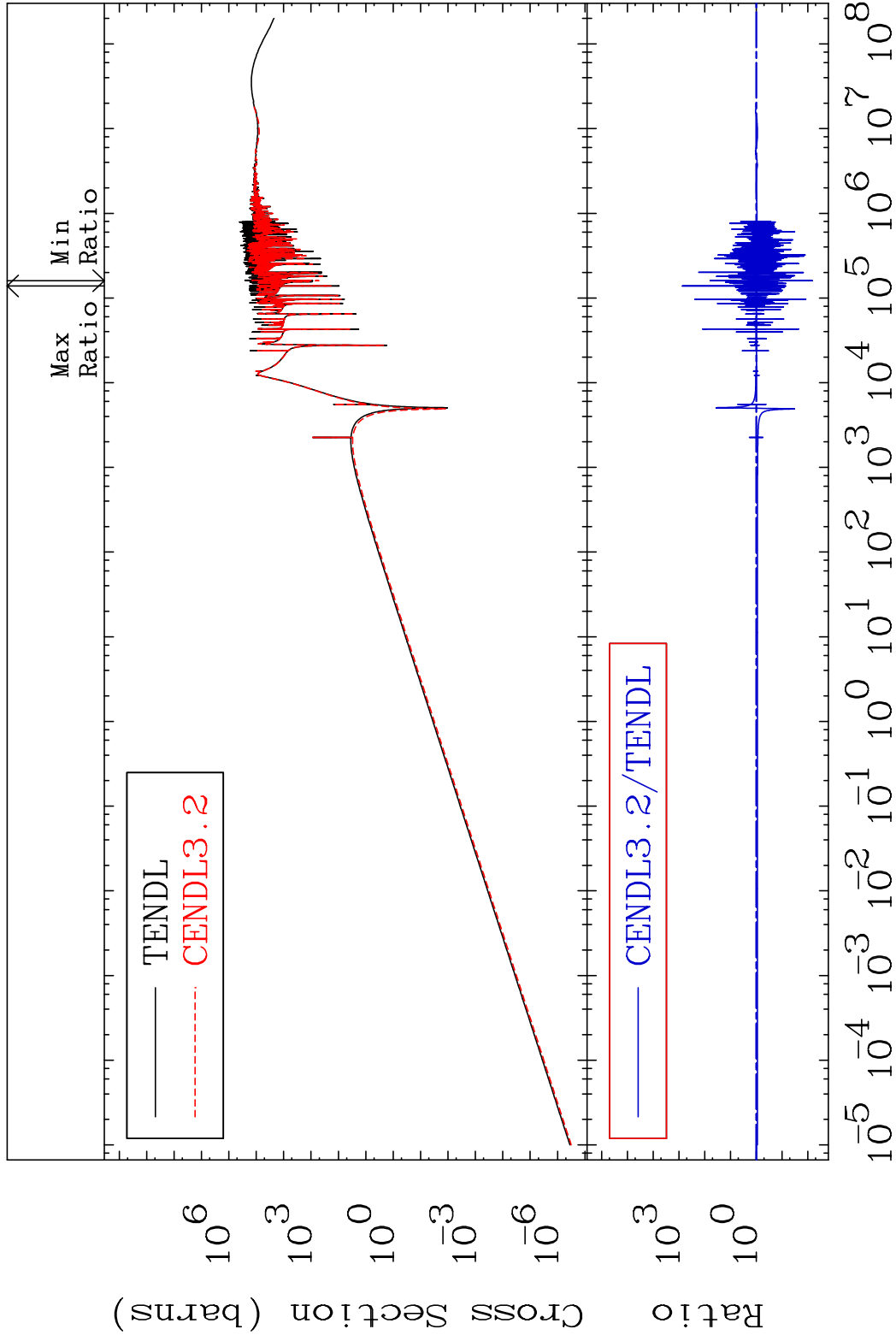


39 Incident Energy (eV) 28-Ni-60

MAT 2831

Kerma elastic
Cross Section

28-Ni-60
-99.35 To 9999. %

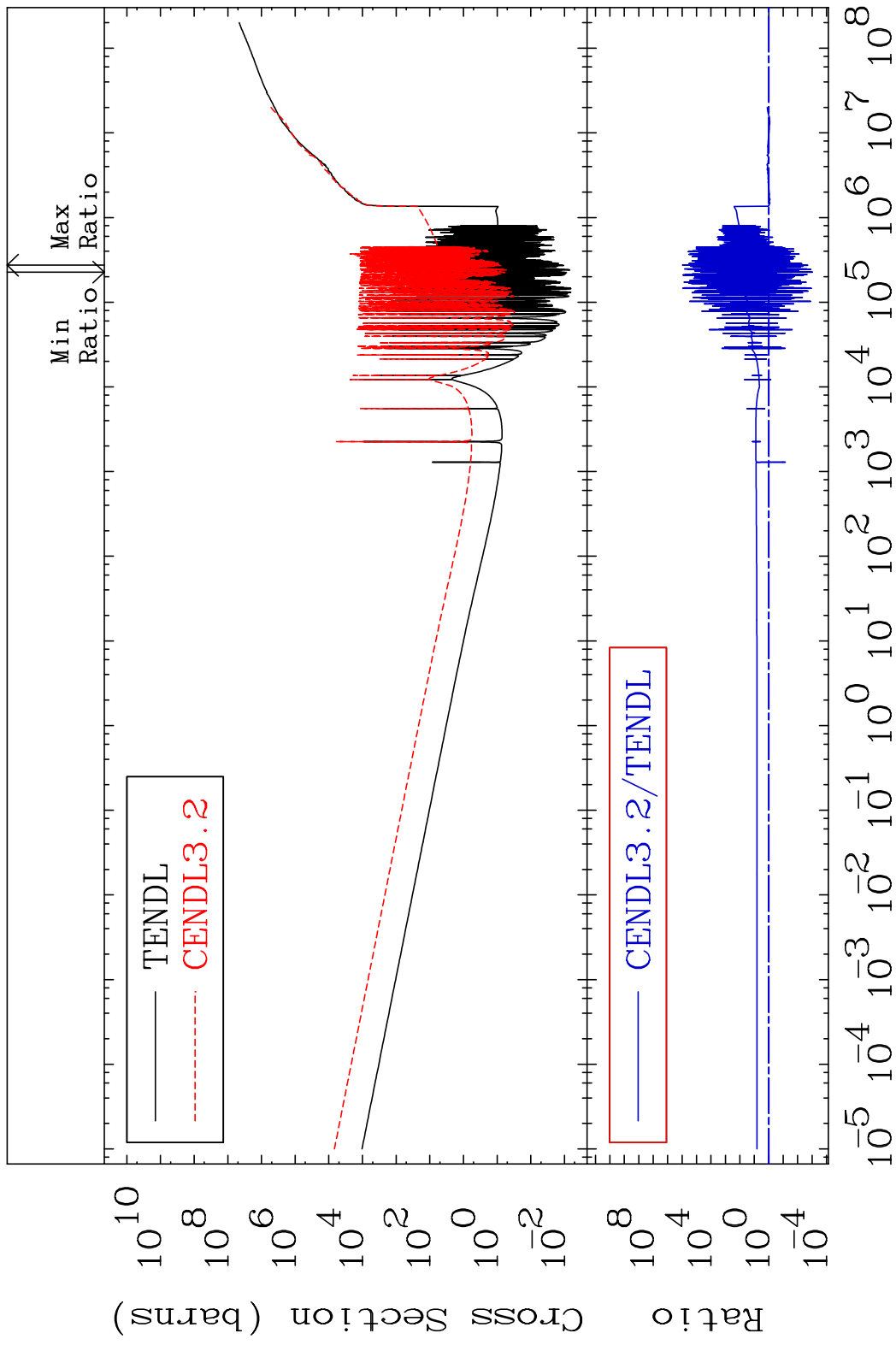


40

Incident Energy (eV)

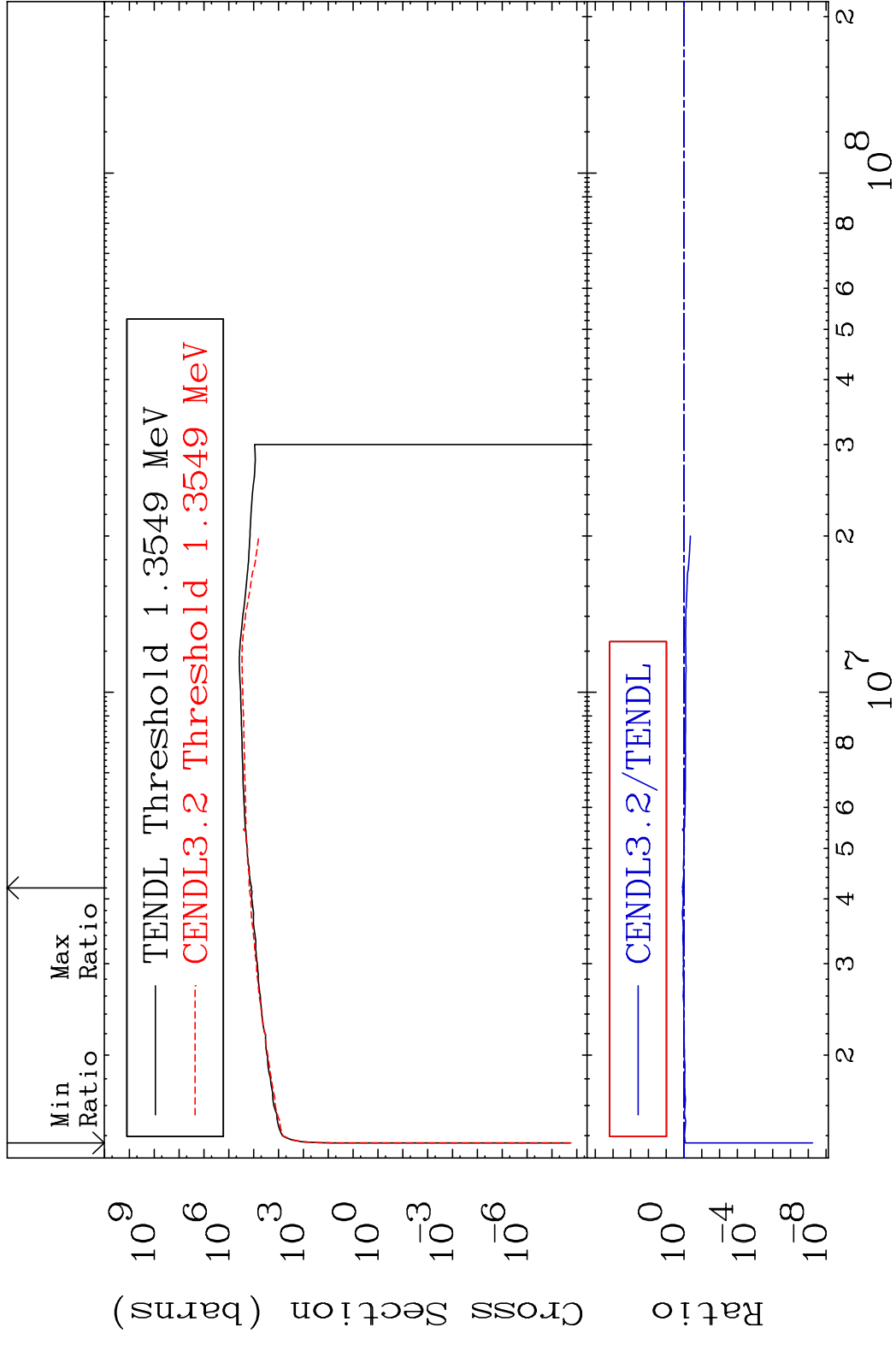
28-Ni-60

MAT 2831 Kerma non-elastic (all but mt2) 28-Ni-60
Cross Section -99.91 To 9999. %

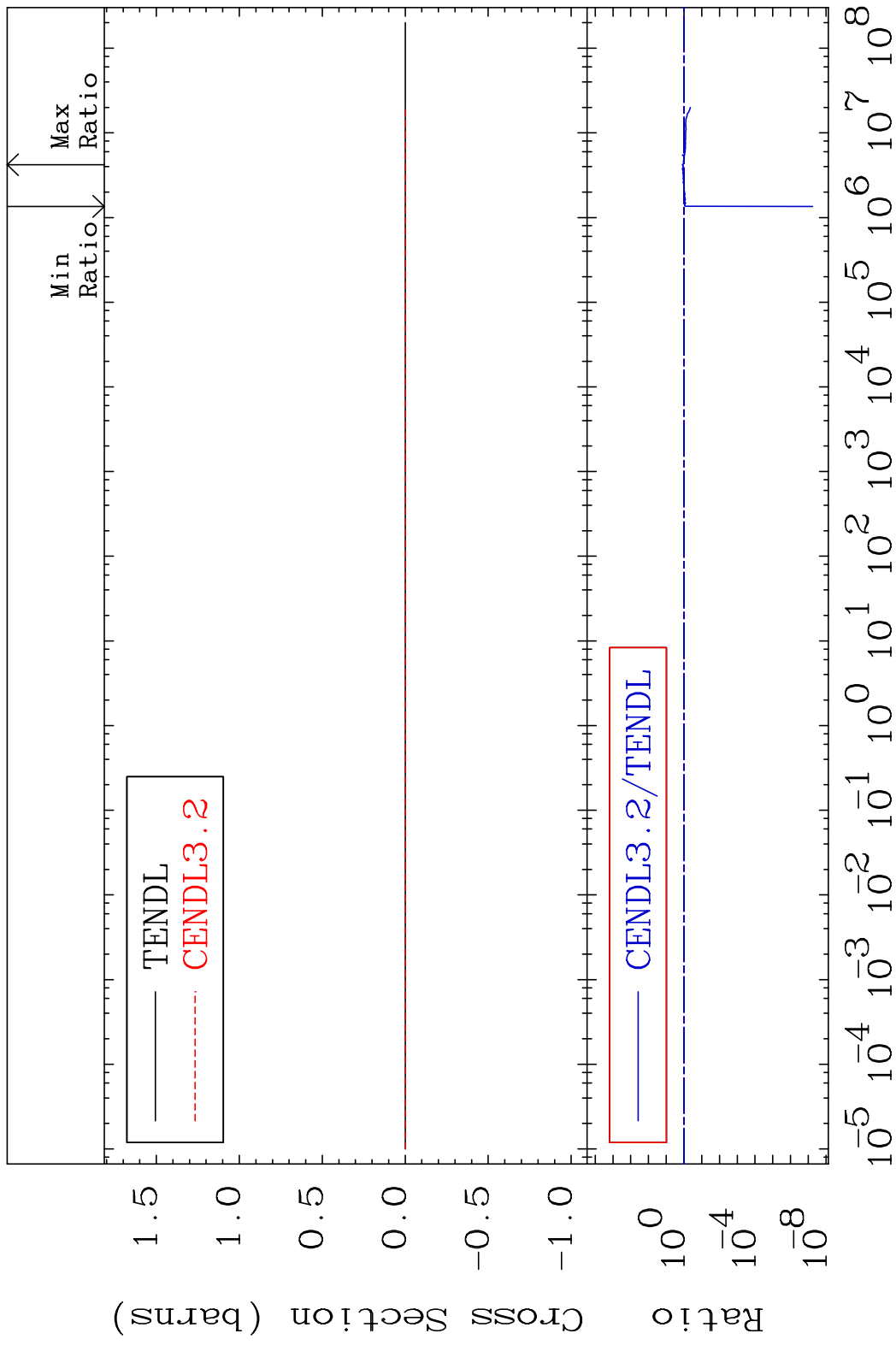


41 Incident Energy (eV) 28-Ni-60

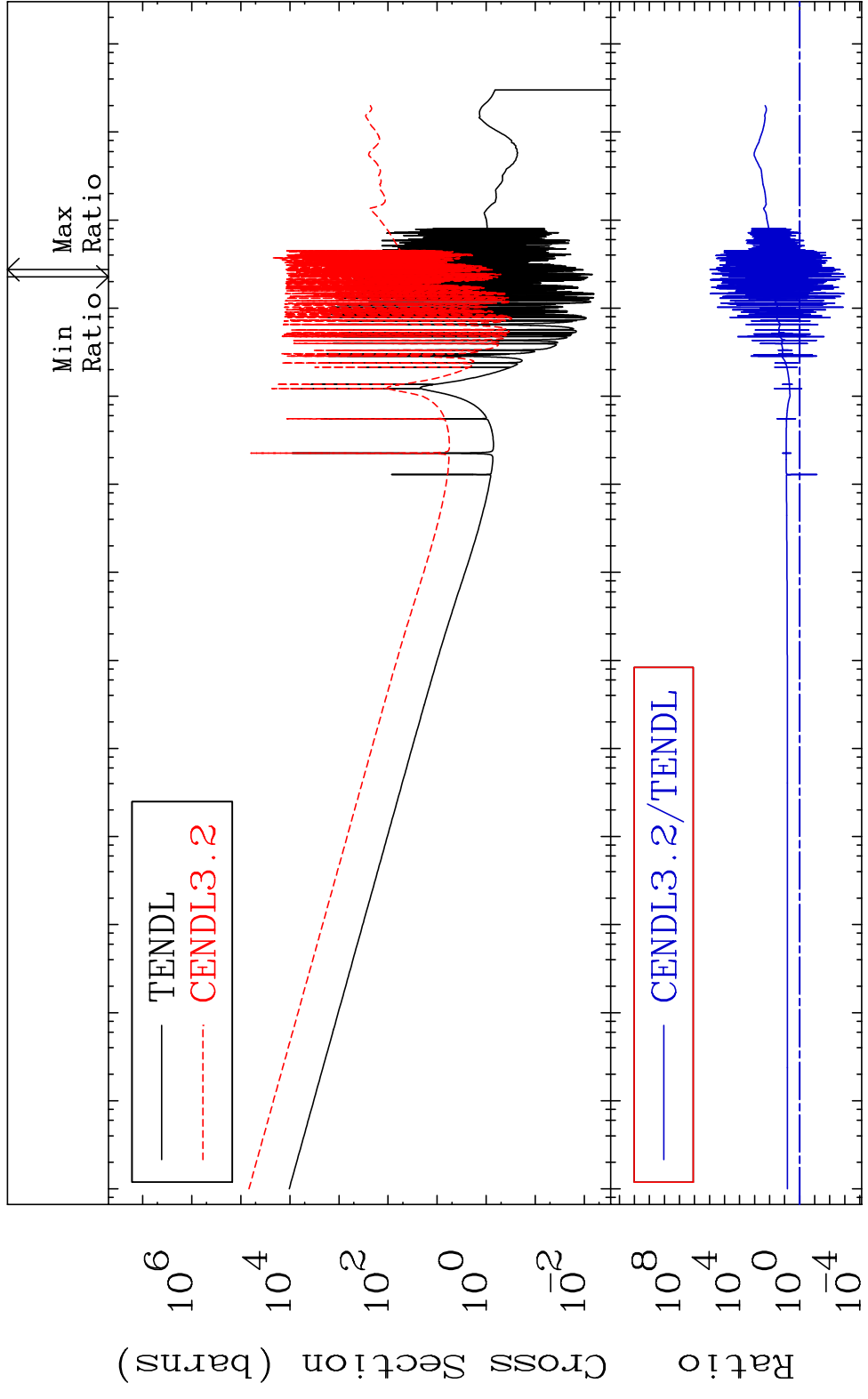
MAT 2831 Kerma inelastic (mt51-91) 28-Ni-60
 Cross Section -100.0 To 23.72 %



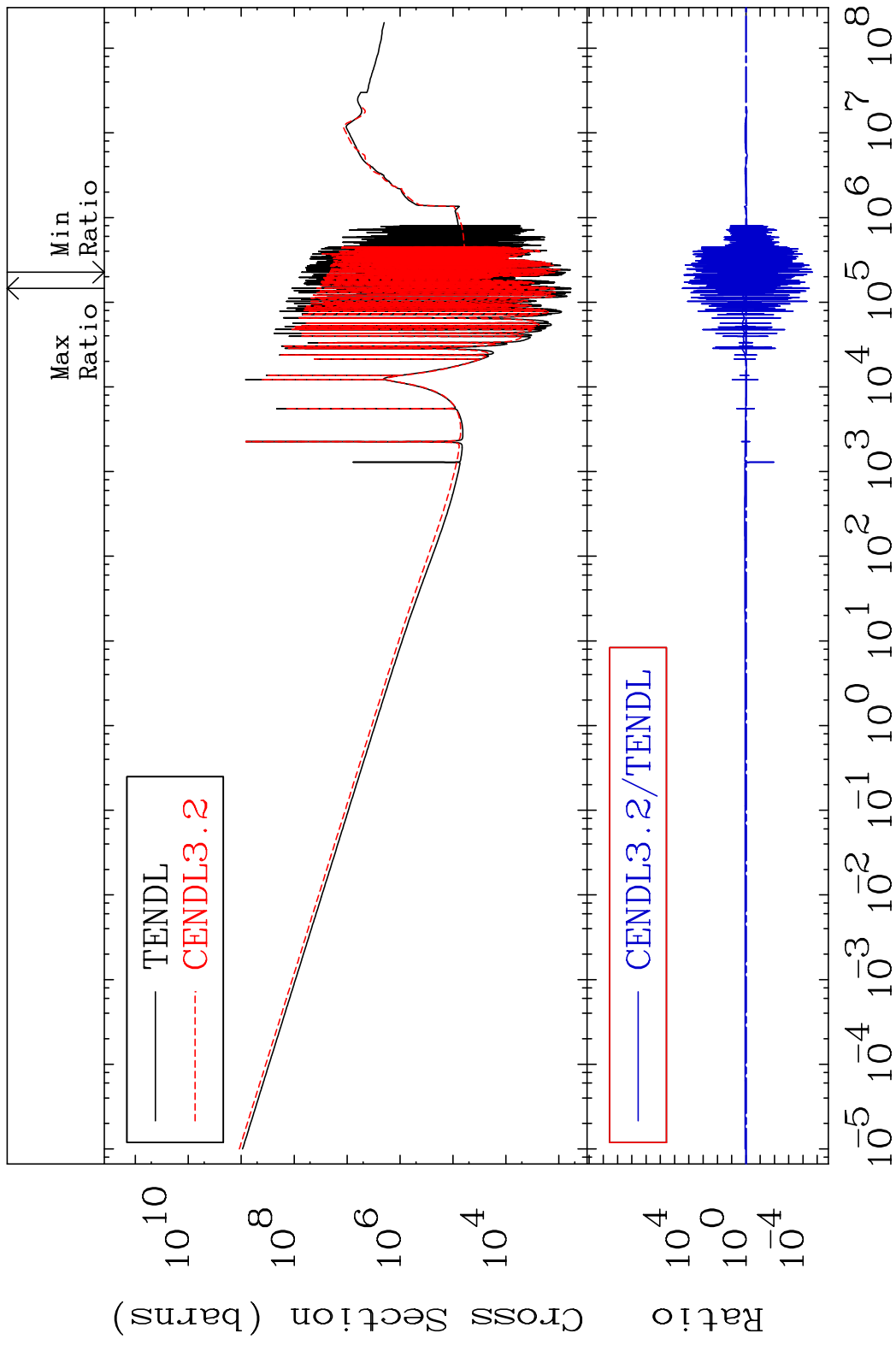
MAT 2831 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-60
 Cross Section -100.0 To 23.72 %



MAT 2831 Kerma capture (mt102) 28-Ni-60
 Cross Section -99.91 To 9999. %

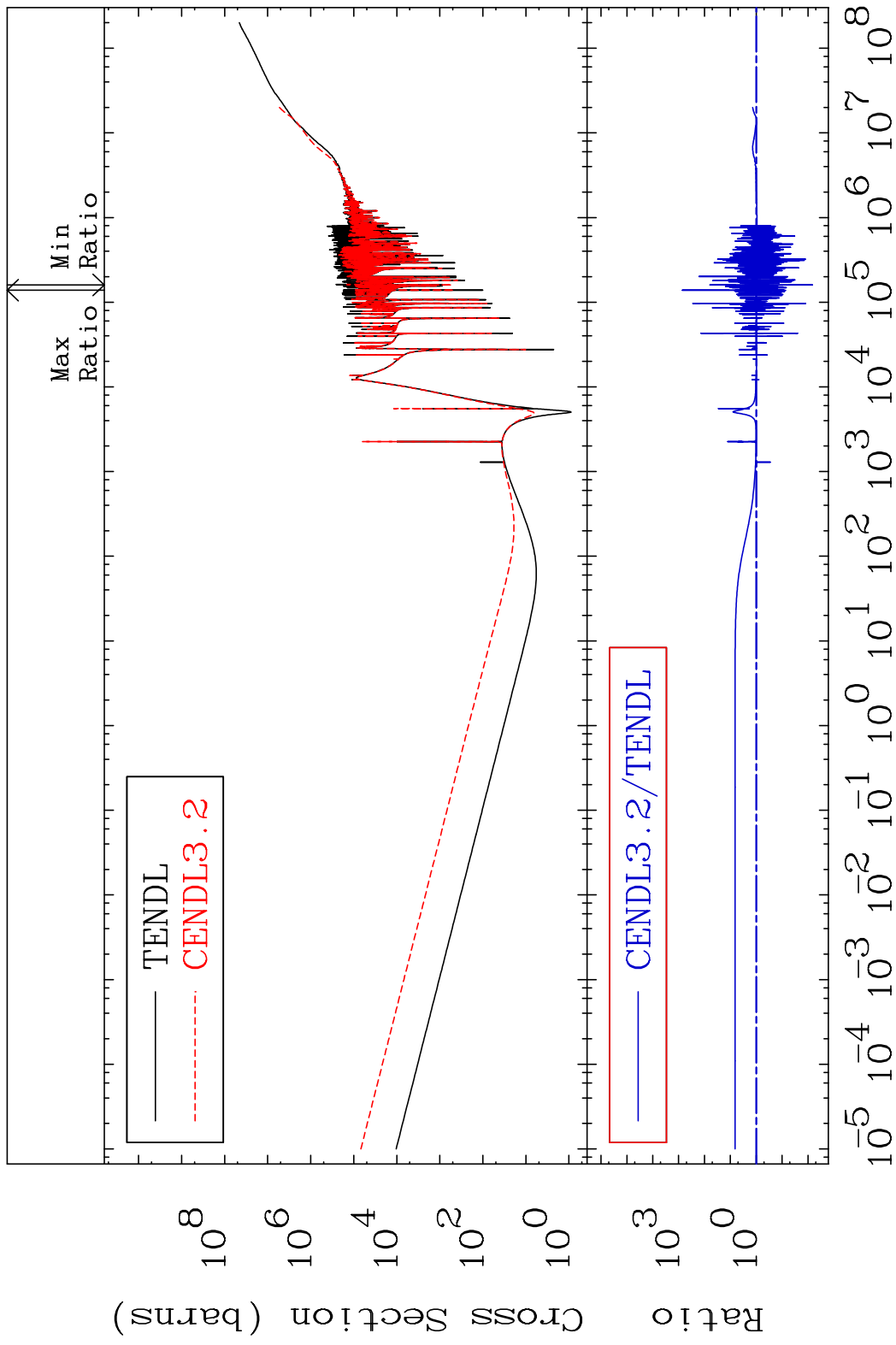


MAT 2831 Total photon (eV-barns) 28-Ni-60
Cross Section -100.0 To 9999. %

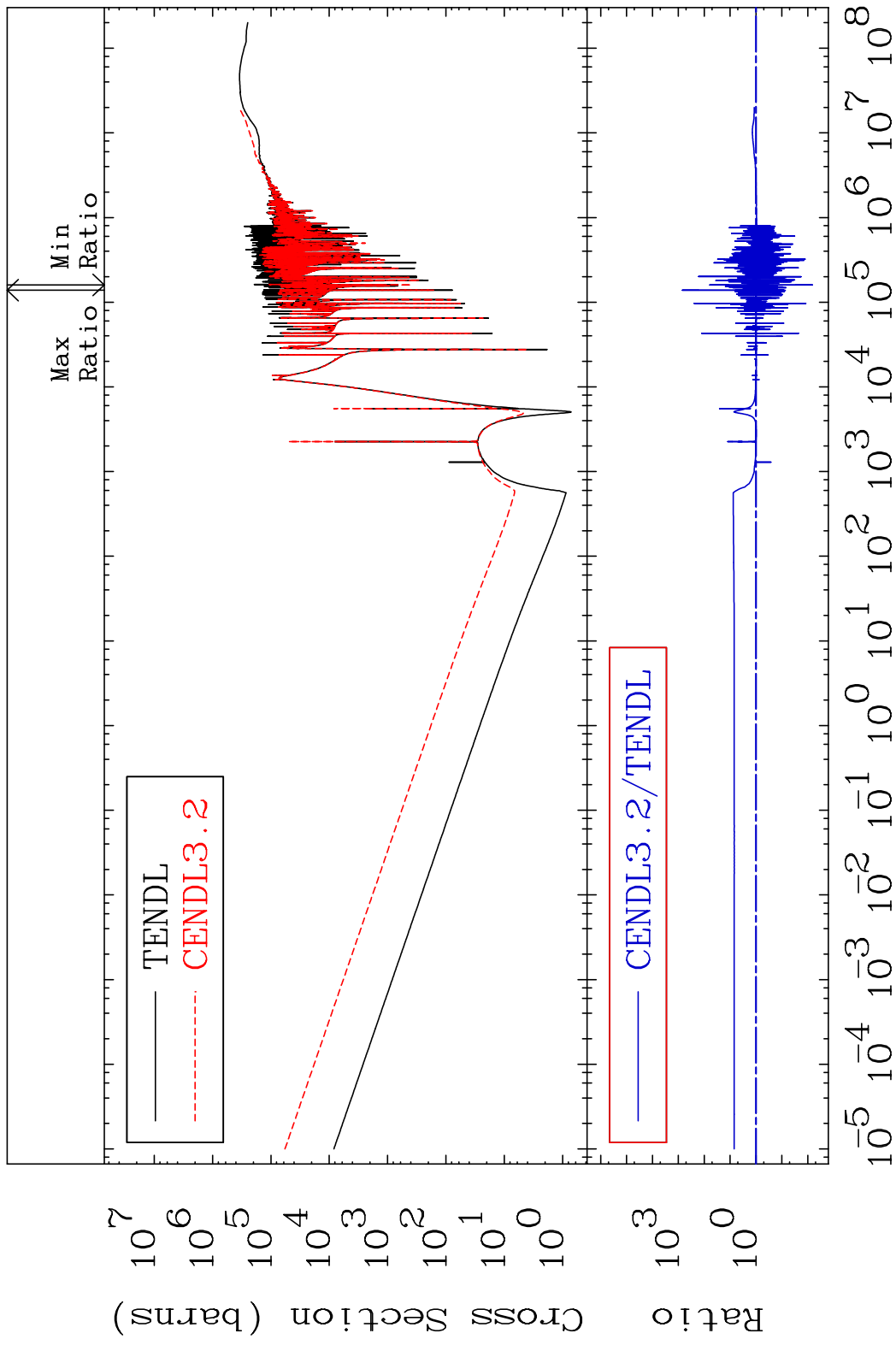


45 Incident Energy (eV) 28-Ni-60

MAT 2831 Total kinematic kerma (high limit) 28-Ni-60
 Cross Section -99.34 To 9999. %



MAT 2831 Dpa total (eV-barns) 28-Ni-60
 Cross Section -99.35 To 9999. %



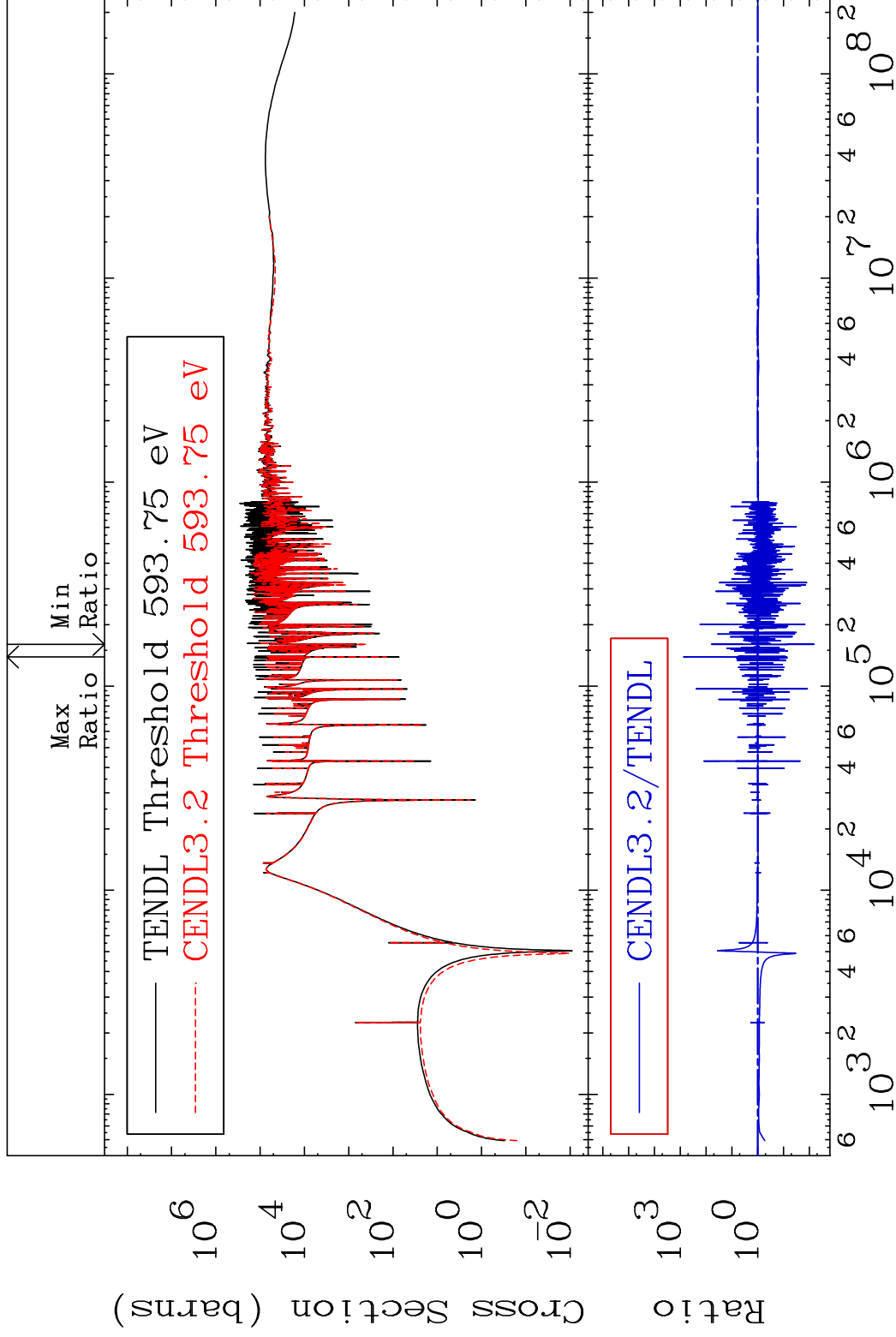
47 Incident Energy (eV) 28-Ni-60

MAT 2831

Dpa elastic (mt2)

28-Ni-60

Cross Section -99.35 To 9999. %

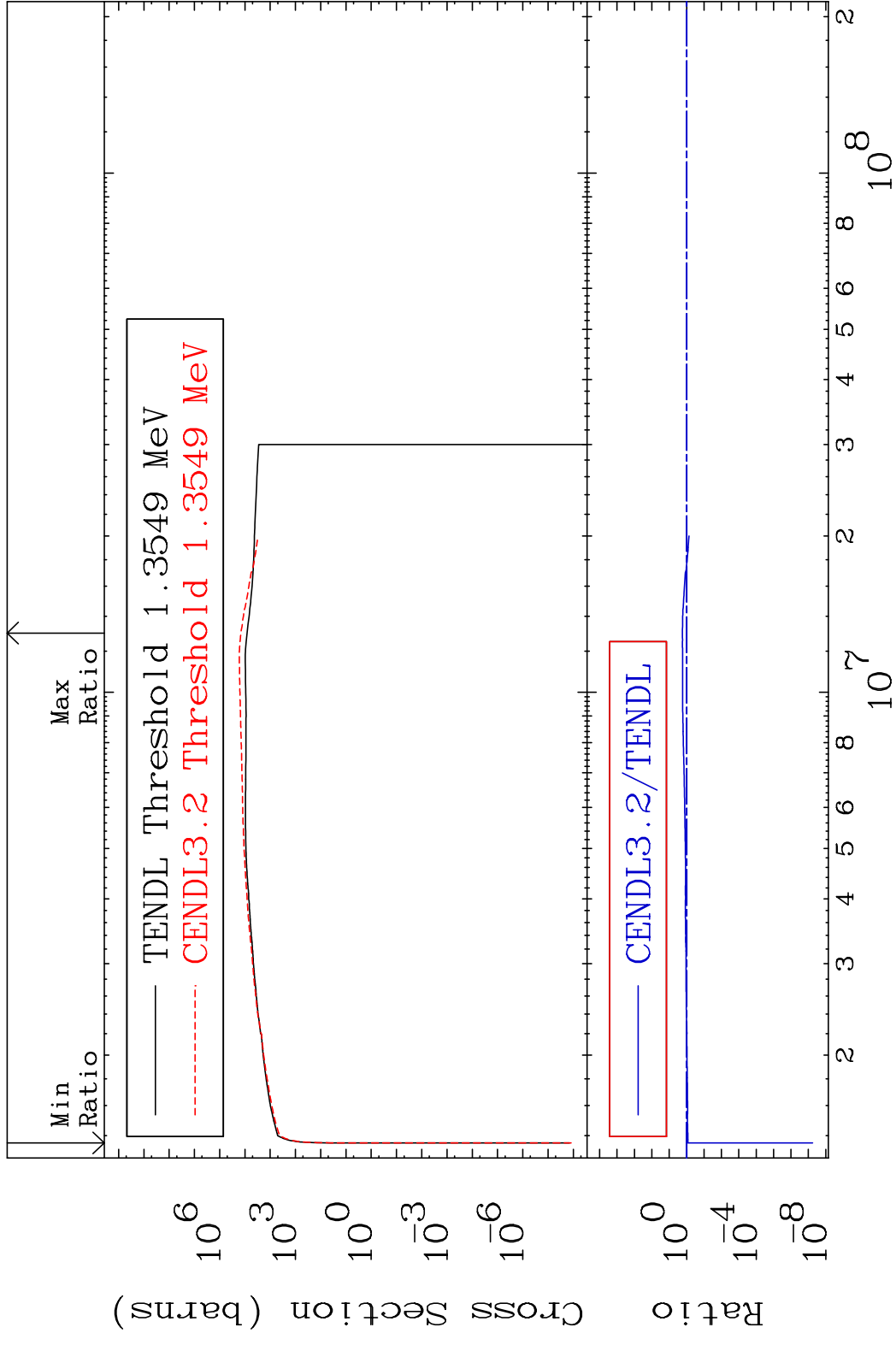


48

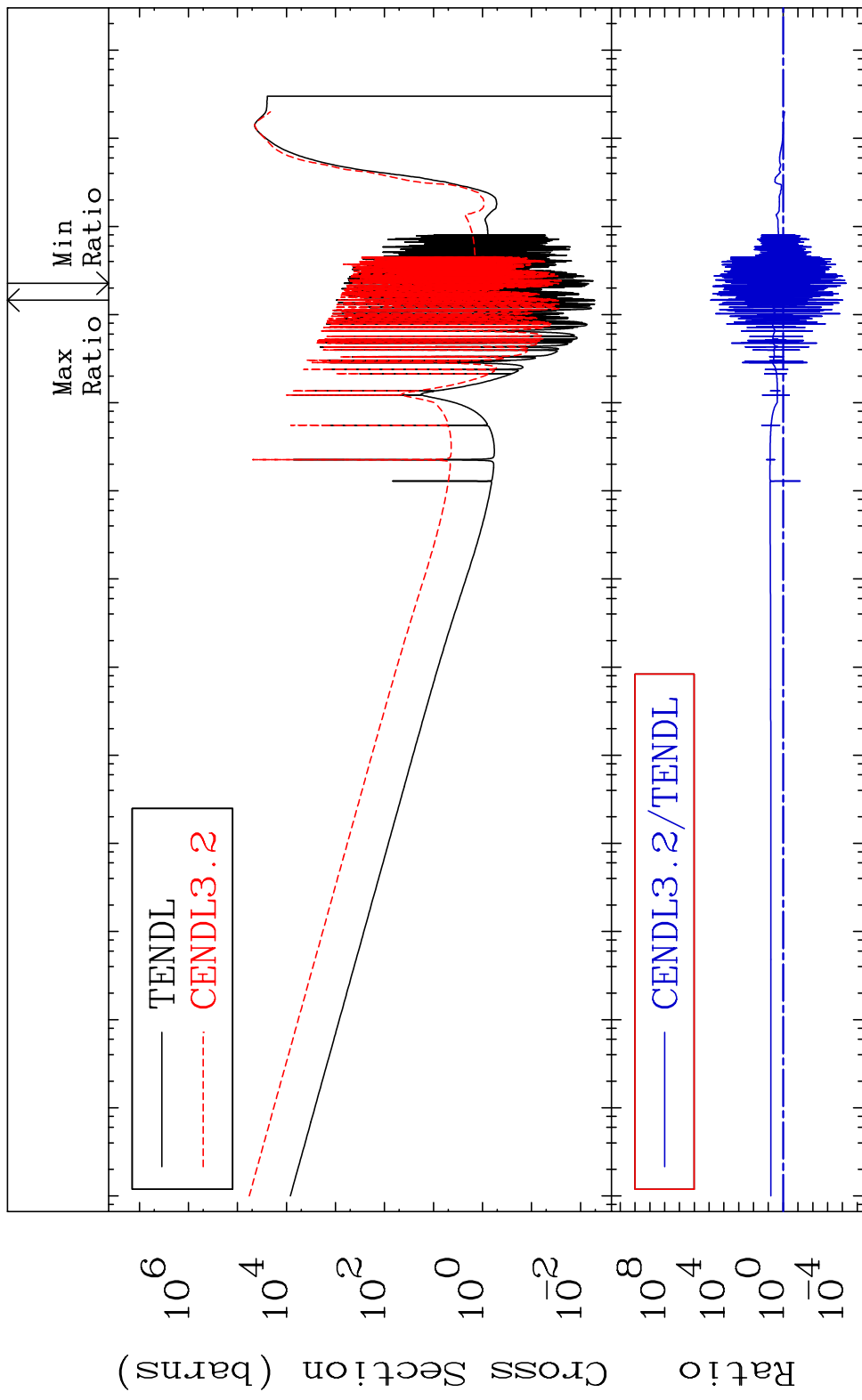
Incident Energy (eV)

28-Ni-60

MAT 2831 Dpa inelastic (mt51-91) 28-Ni-60
 Cross Section -100.0 To 75.82 %

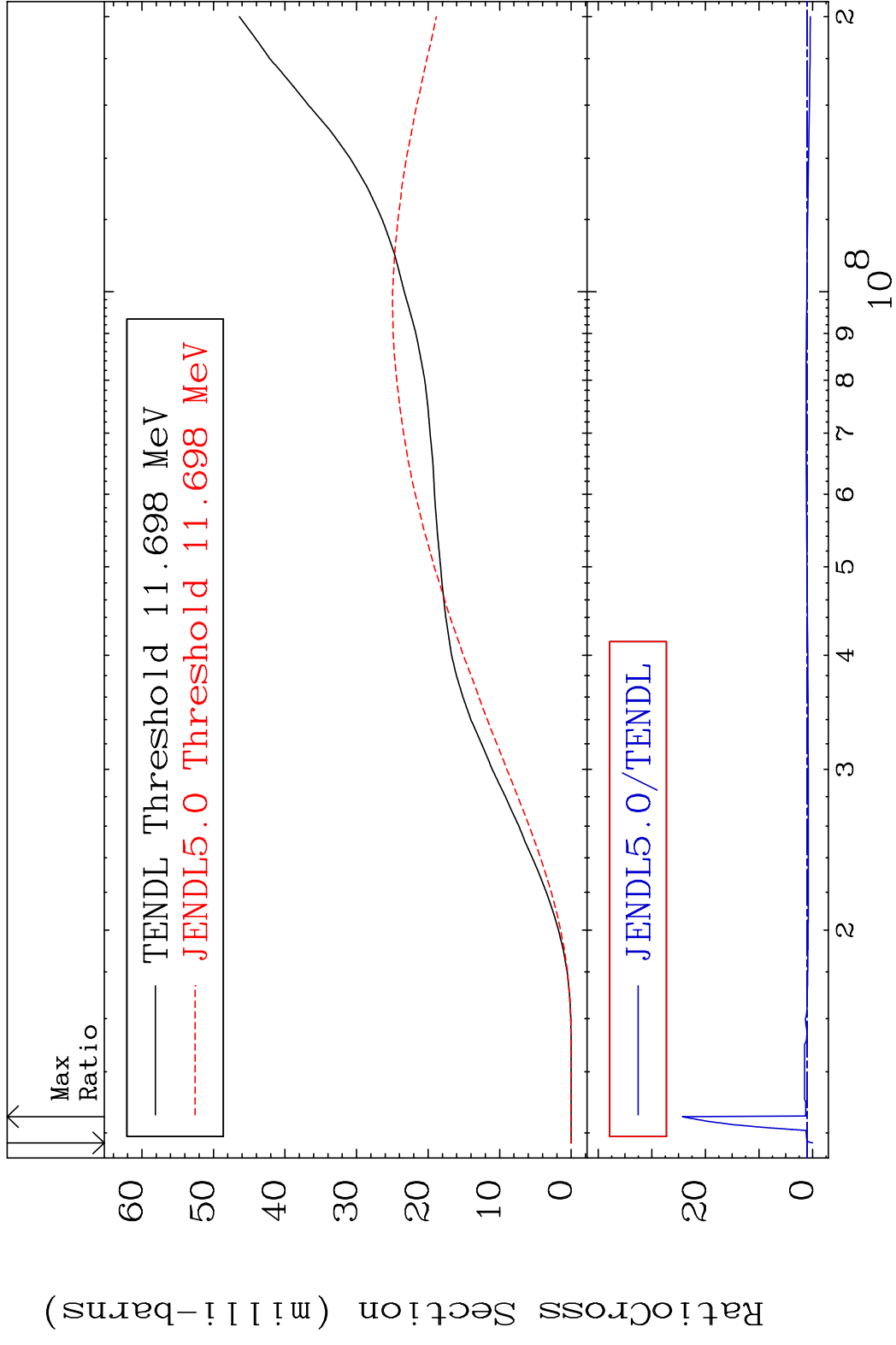


MAT 2831 Dpa disappearance (mt102 -120) 28-Ni-60
 Cross Section -99.99 To 9999. %

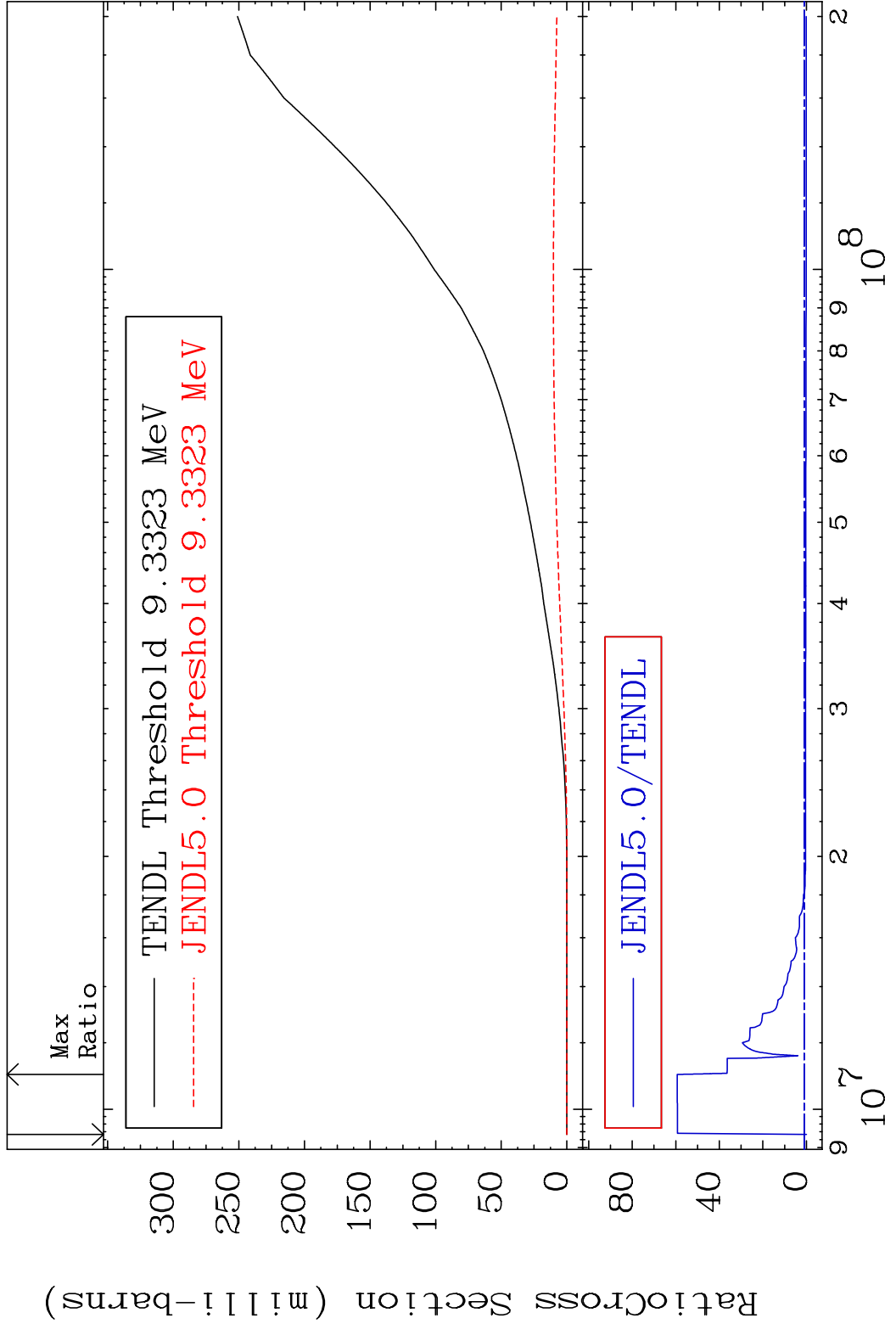


50 Incident Energy (eV) 28-Ni-60

MAT 2831 Tritium Production 28-Ni-60
 Cross Section -100.0 To 2330. %



MAT 2831 He-3 Production 28-Ni-60
 Cross Section -100.0 To 5835. %



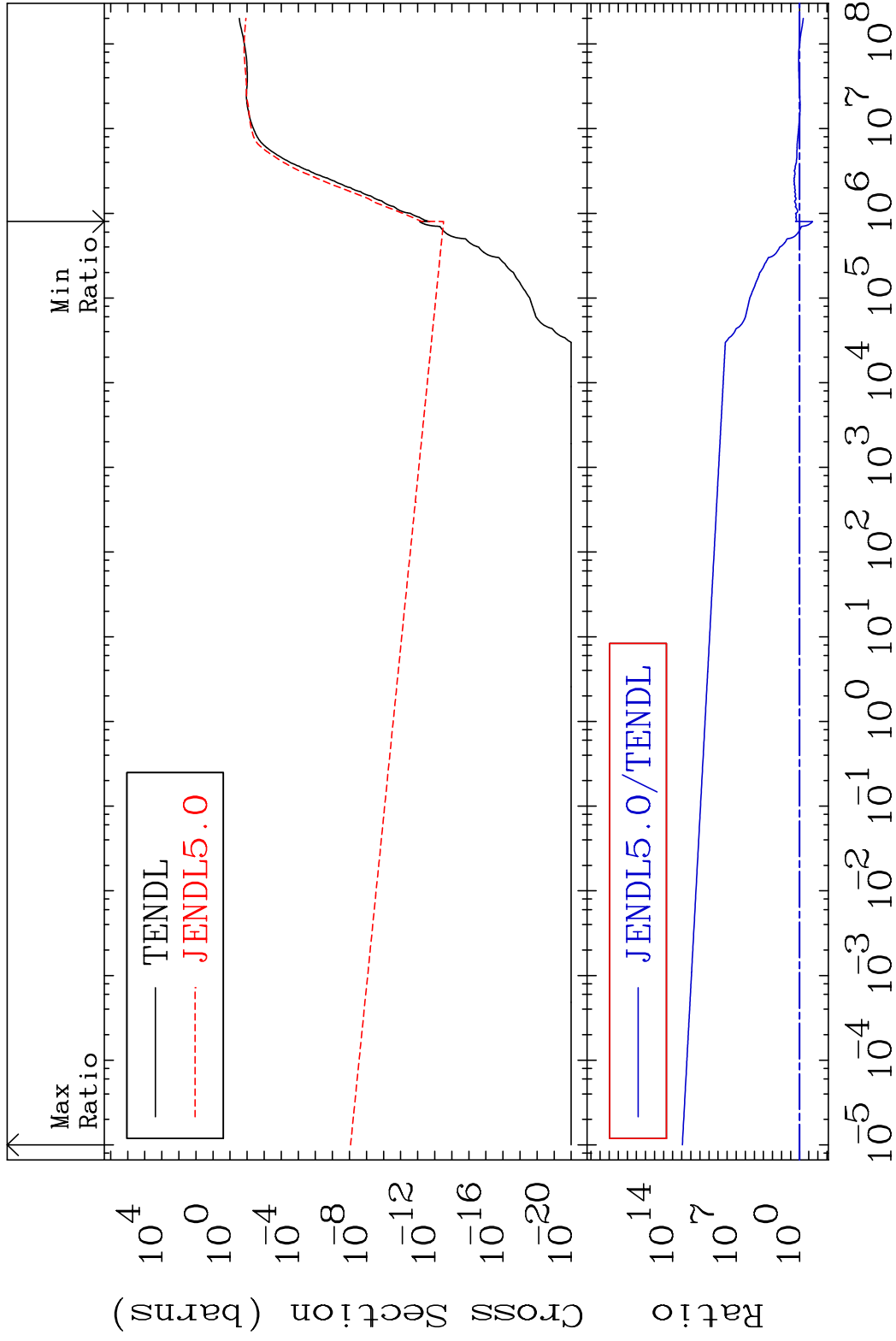
52 Incident Energy (eV) 28-Ni-60

MAT 2831

He-4 Production

28-Ni-60

Cross Section -96.17 To 9999. %

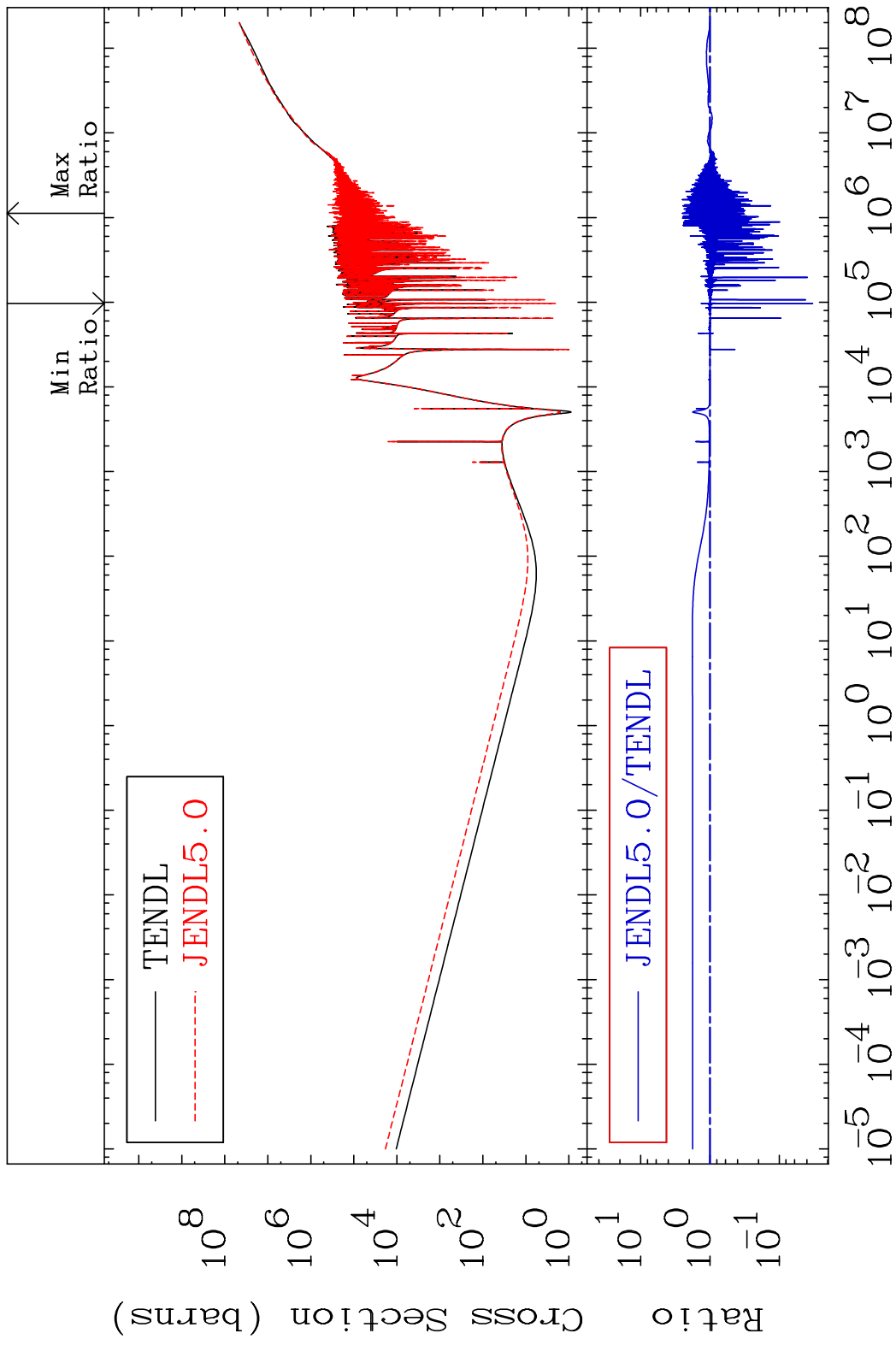


53

Incident Energy (eV)

28-Ni-60

MAT 2831 Kerma total (eV-barns) 28-Ni-60
 Cross Section -96.69 To 150.7 %



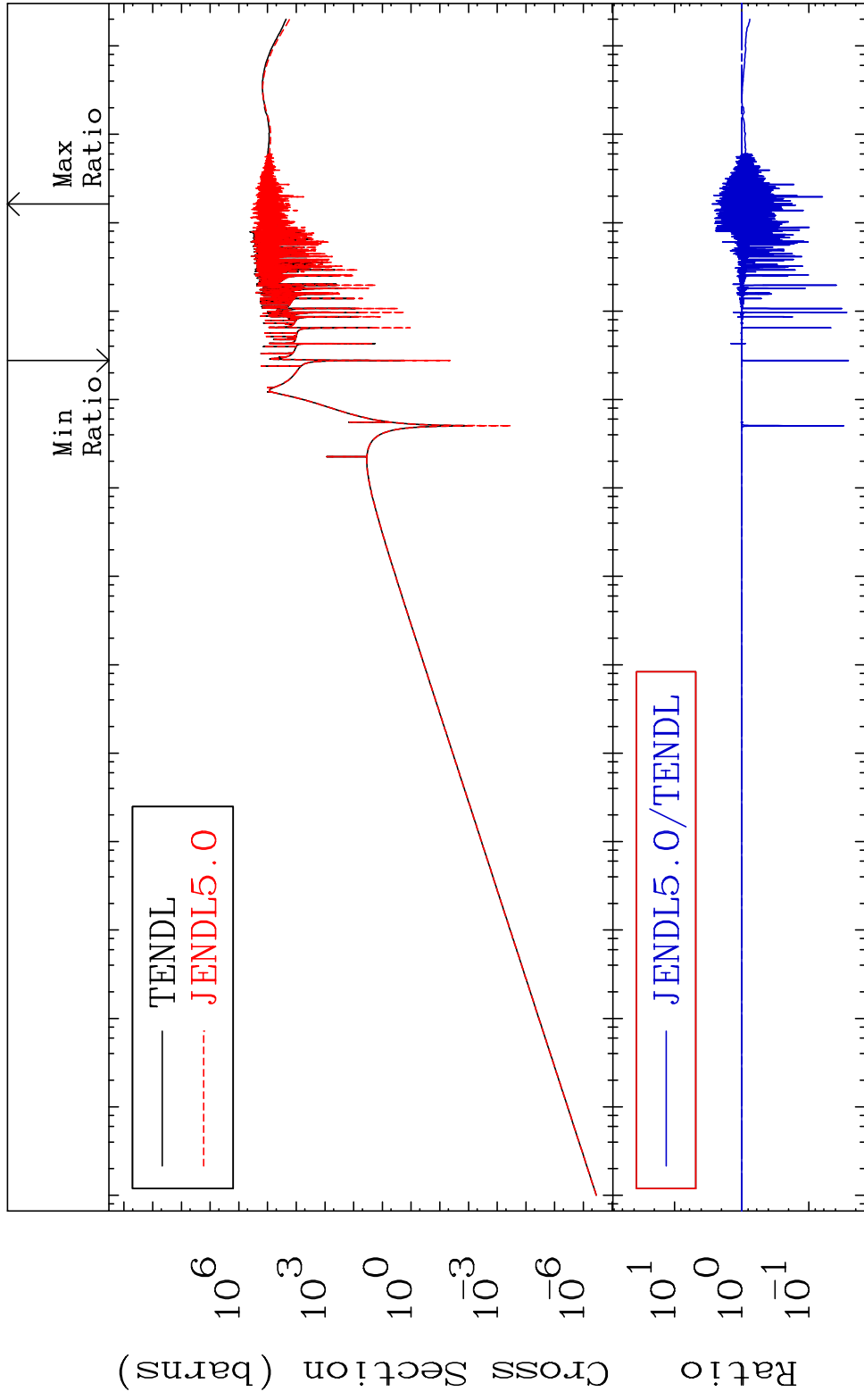
MAT 2831

Kerma elastic

28-Ni-60

Cross Section

-97.42 To 173.6 %

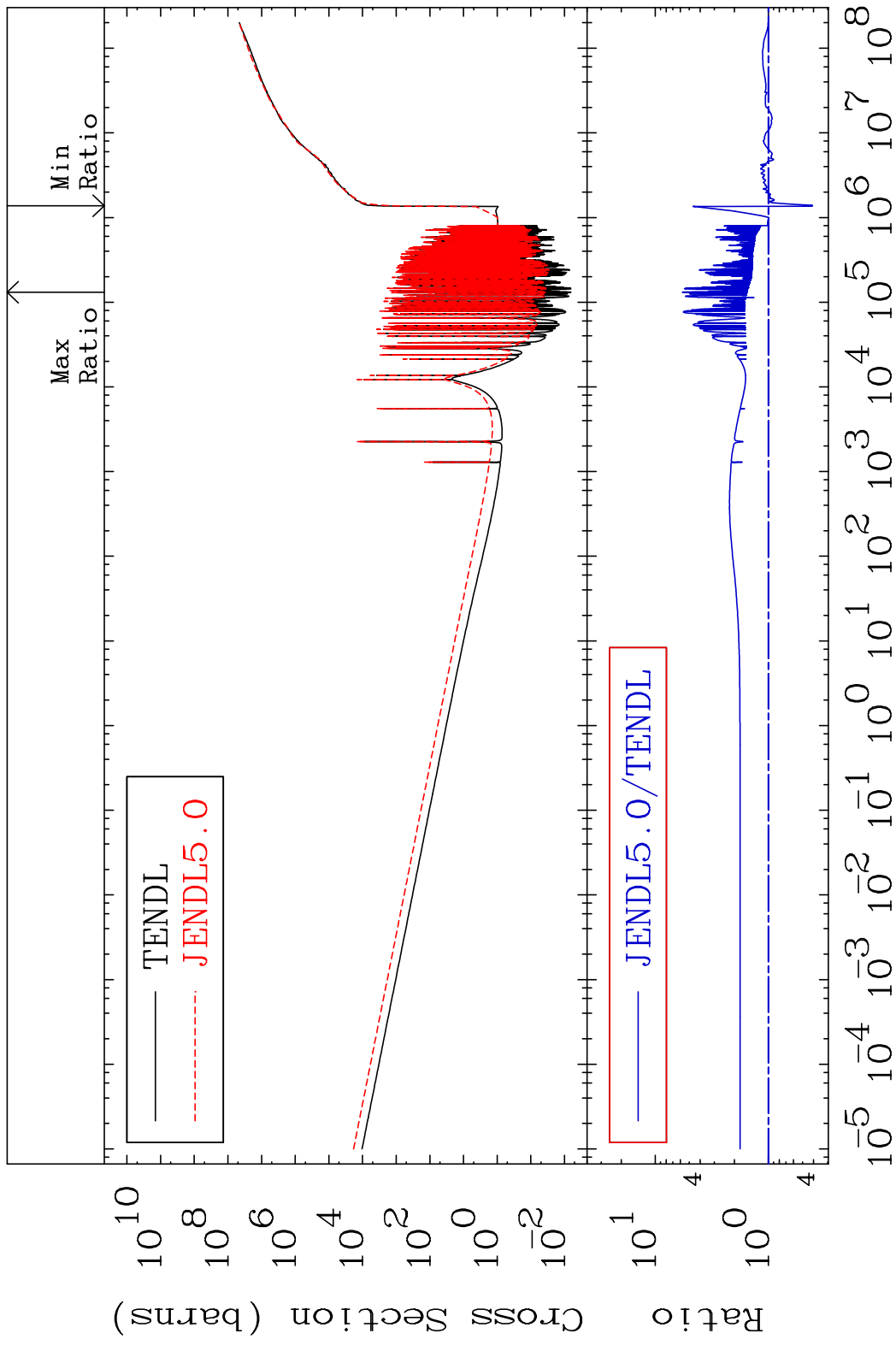


55

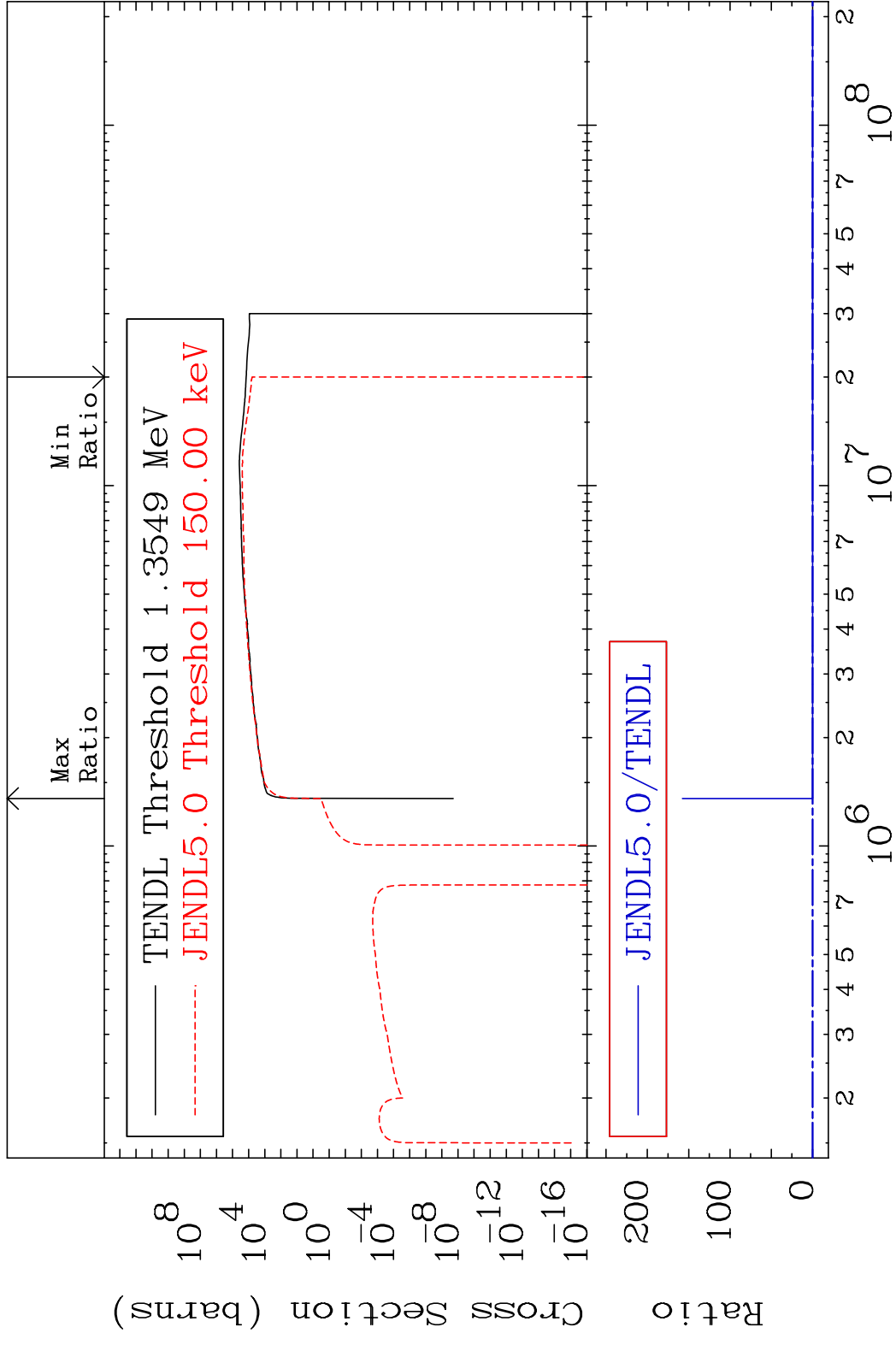
Incident Energy (eV)

28-Ni-60

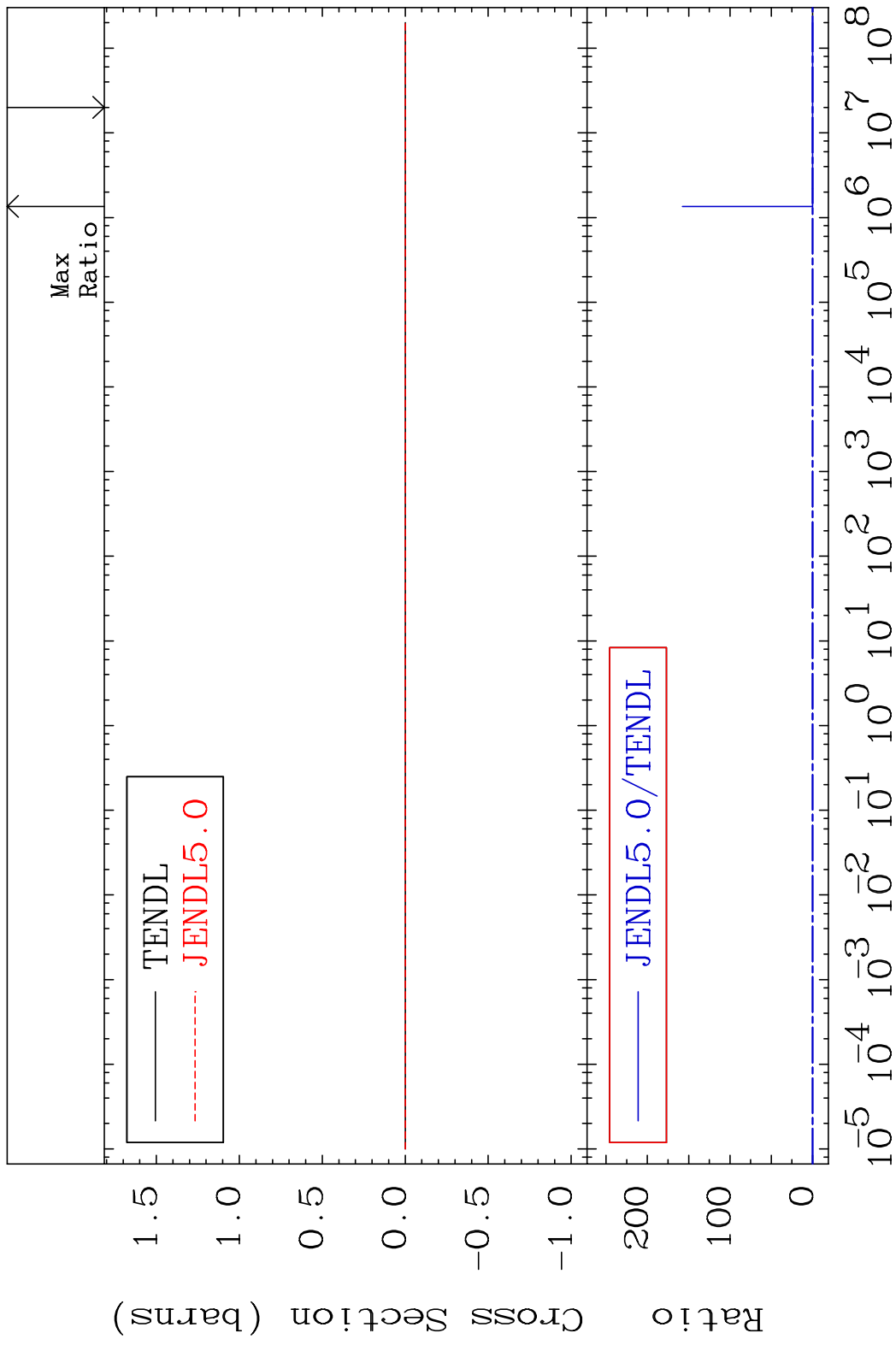
MAT 2831 Kerma non-elastic (all but mt2) 28-Ni-60
 Cross Section -59.24 To 476.0 %



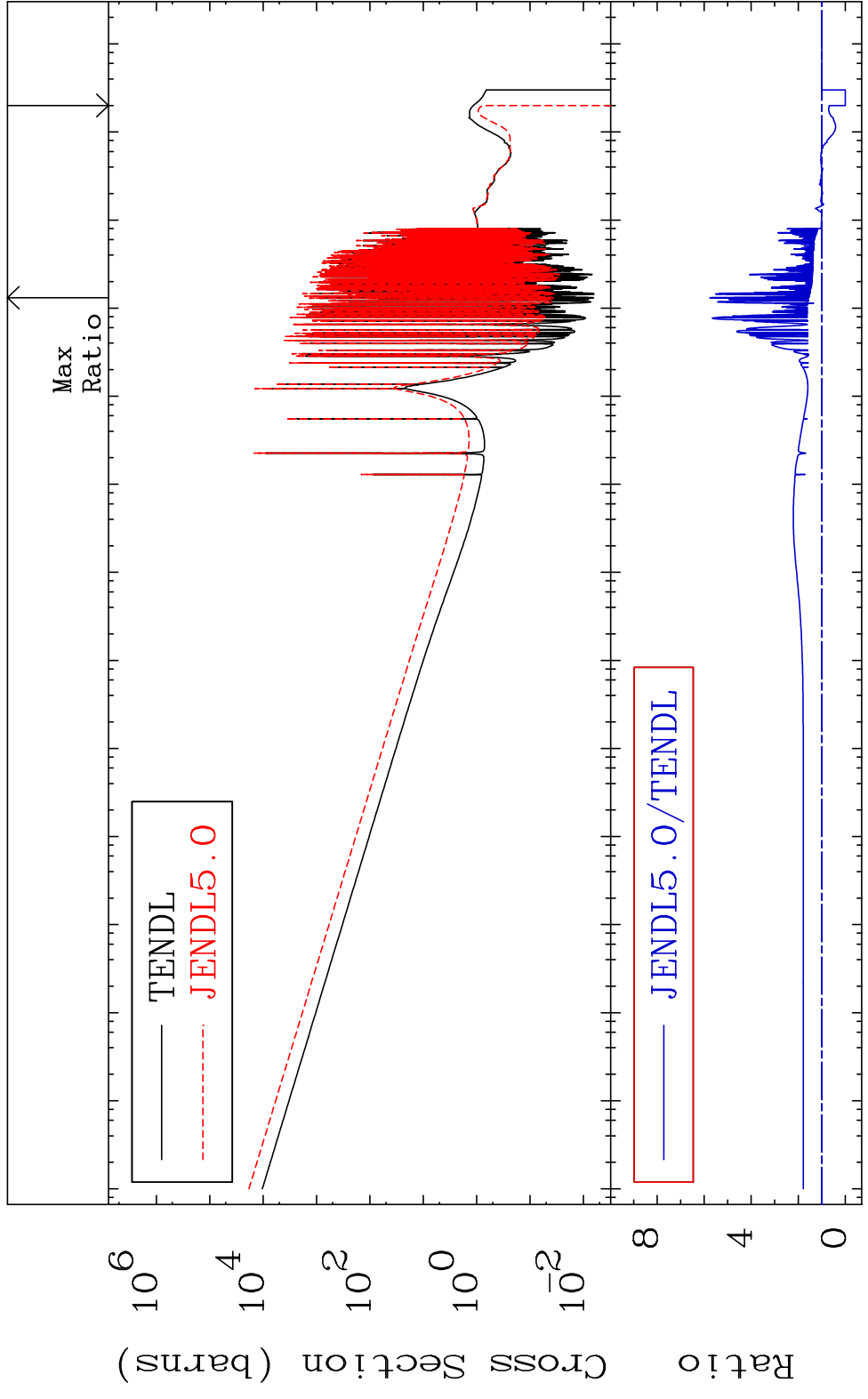
MAT 2831 Kerma inelastic (mt51-91) 28-Ni-60
 Cross Section -100.0 To 9999. %



MAT 2831 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-60
 Cross Section -100.0 To 9999. %

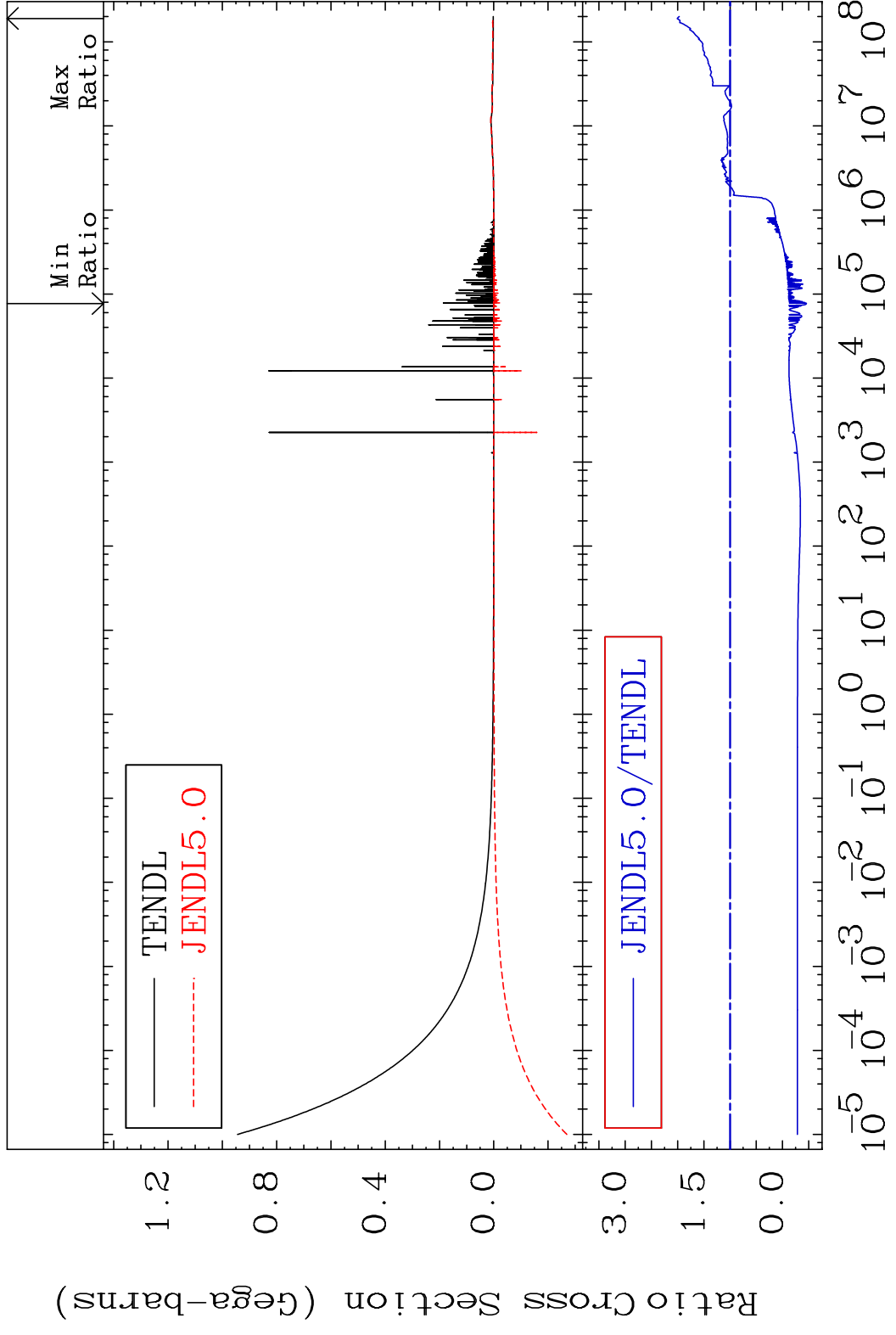


MAT 2831 Kerma capture (mt102) 28-Ni-60
 Cross Section -100.0 To 476.0 %



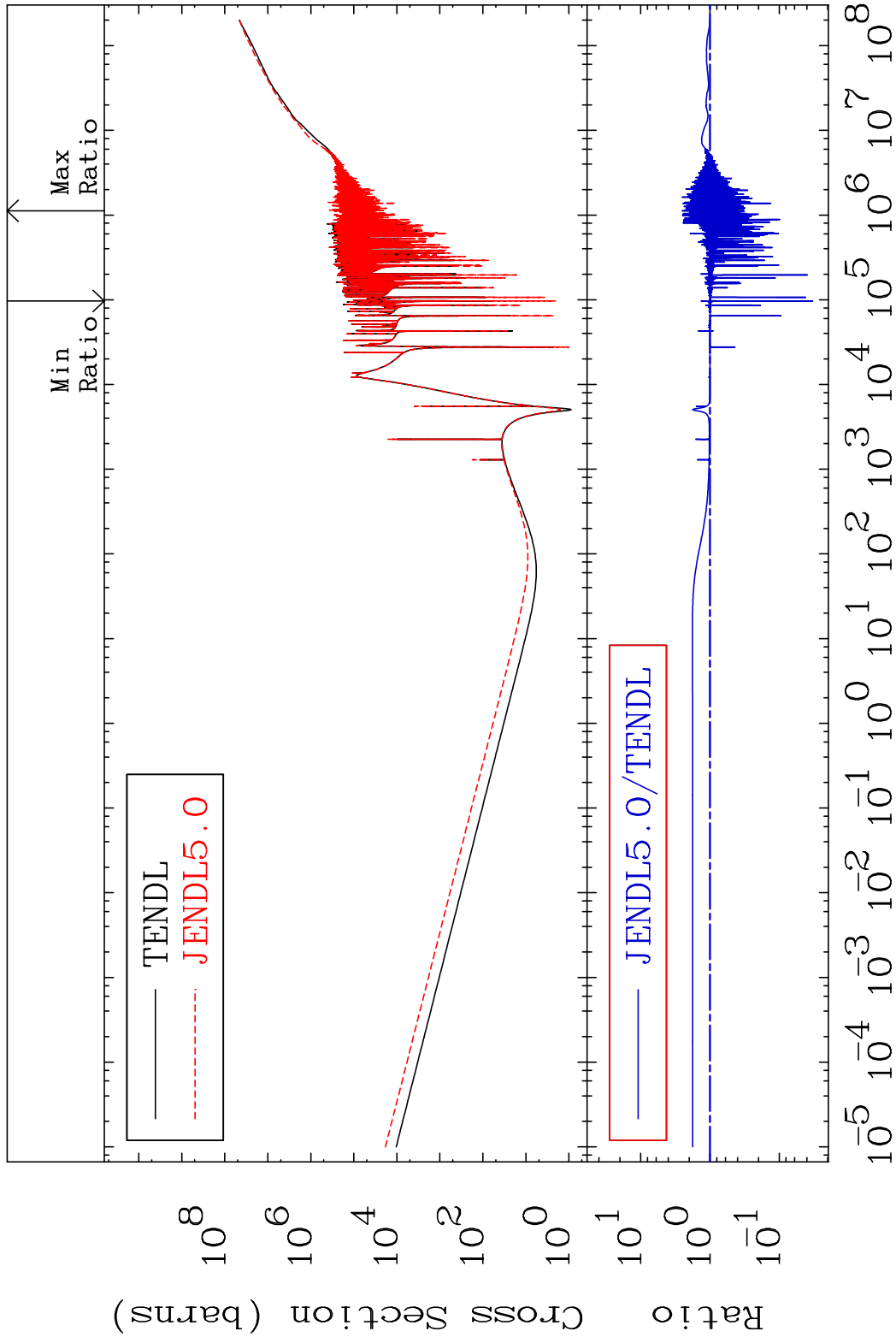
59 Incident Energy (eV) 28-Ni-60

MAT 2831 Total photon (eV-barns) 28-Ni-60
 Cross Section -145.6 To 100.8 %

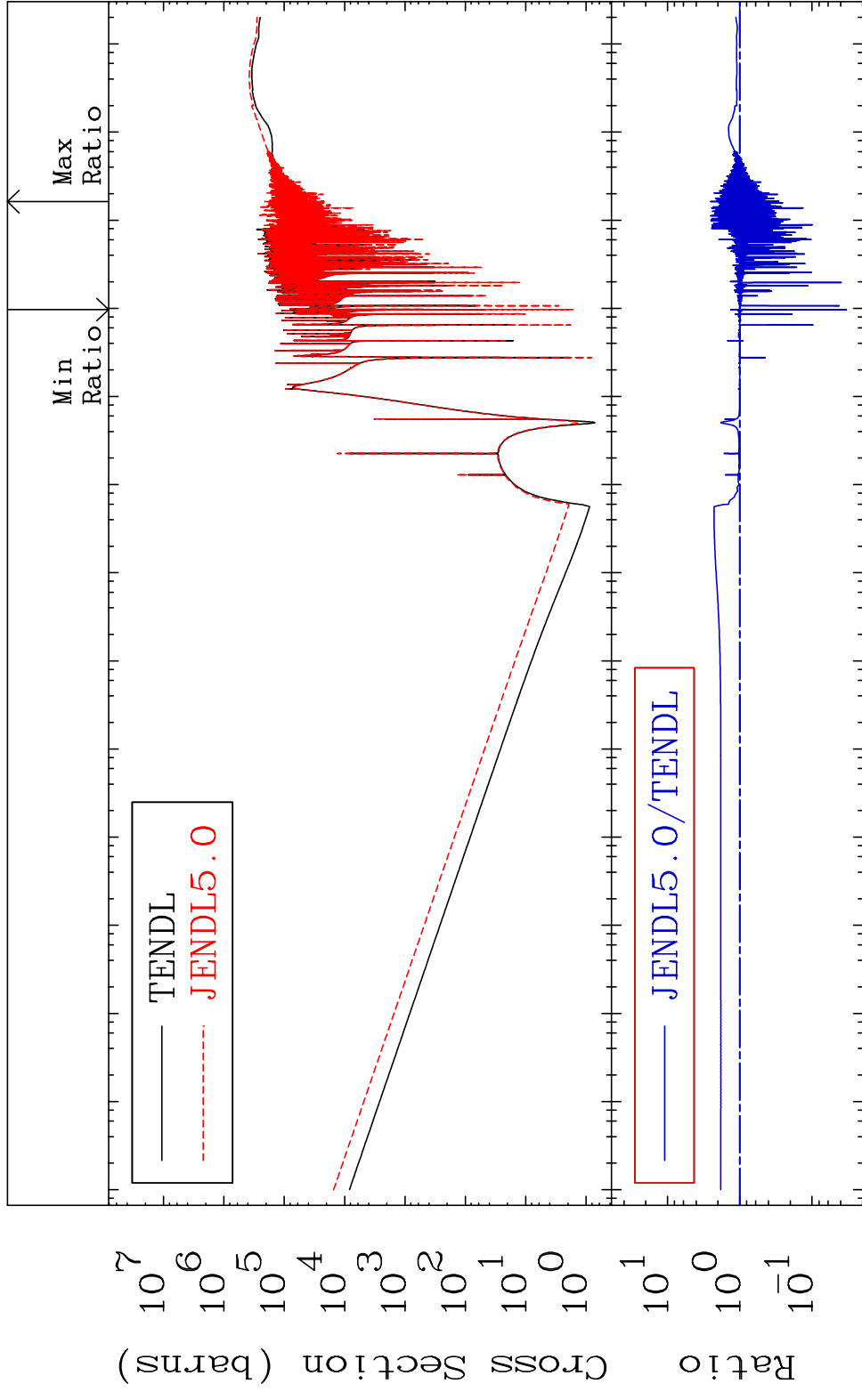


60 Incident Energy (eV) 28-Ni-60

MAT 2831 Total kinematic kerma (high limit) 28-Ni-60
 Cross Section -96.69 To 150.7 %



MAT 2831 Dpa total (eV-barns) 28-Ni-60
 Cross Section -96.66 To 152.1 %



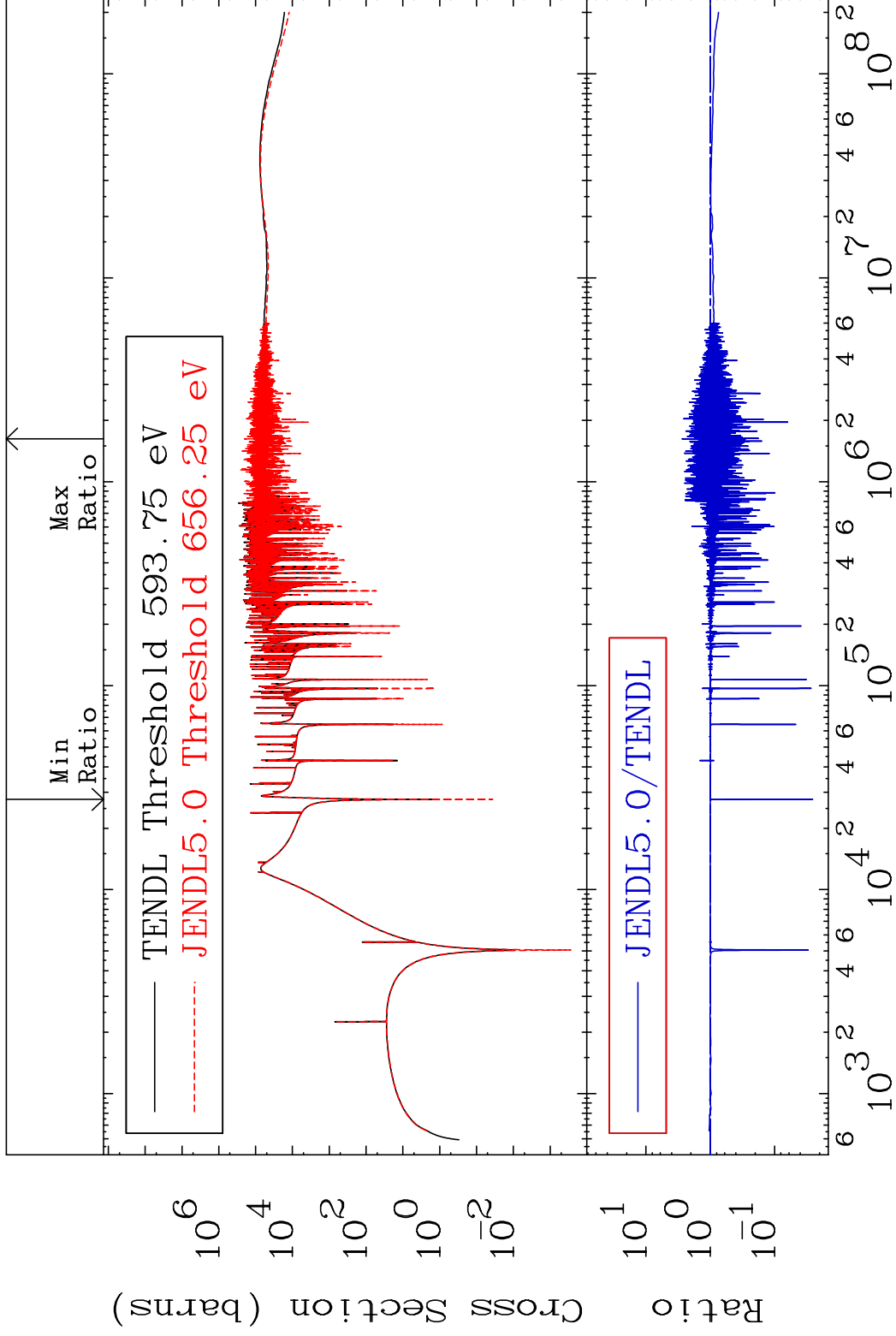
62 Incident Energy (eV) 28-Ni-60

MAT 2831

Dpa elastic (mt2)

28-Ni-60

Cross Section -97.42 To 174.1 %

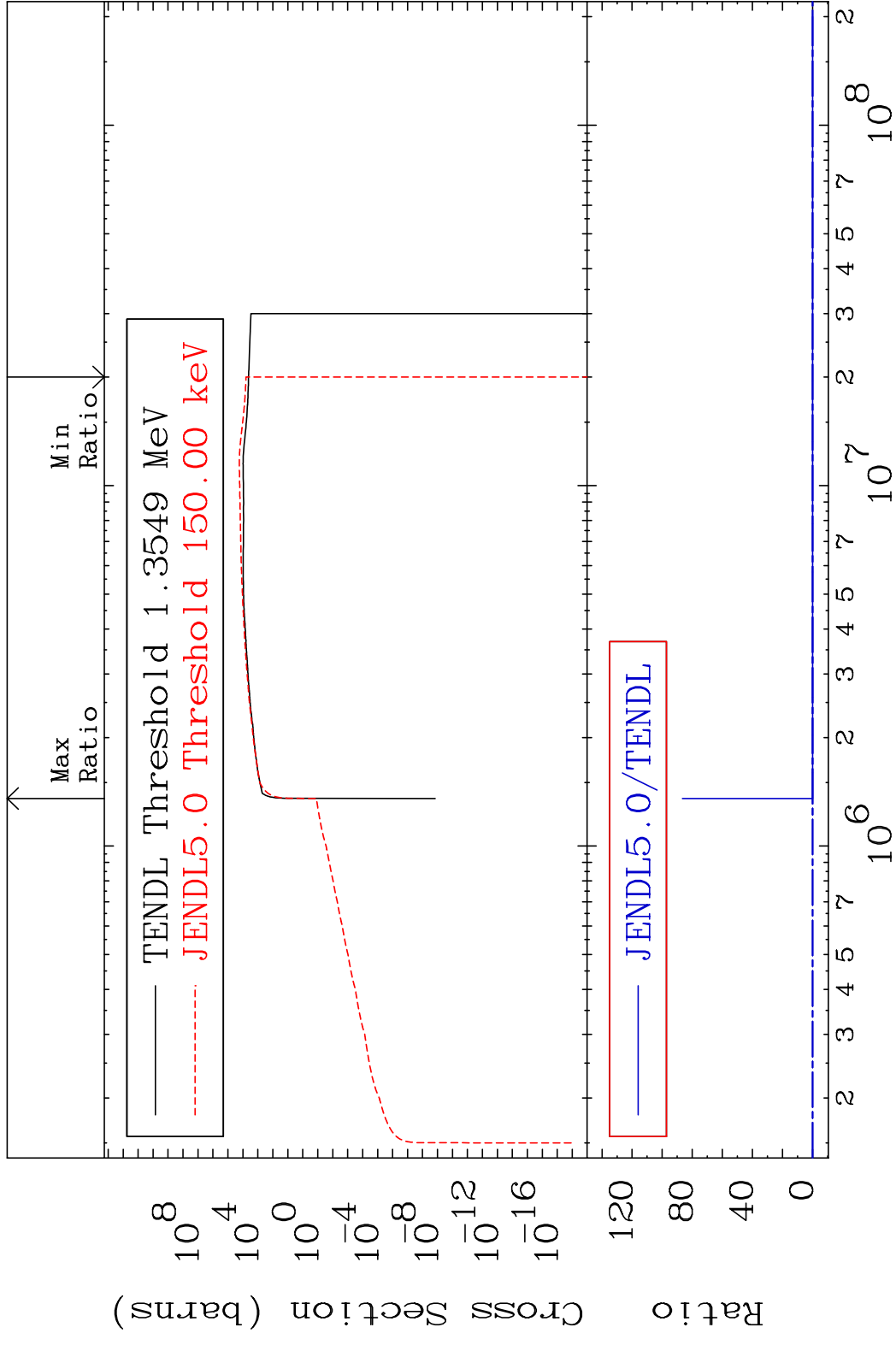


63

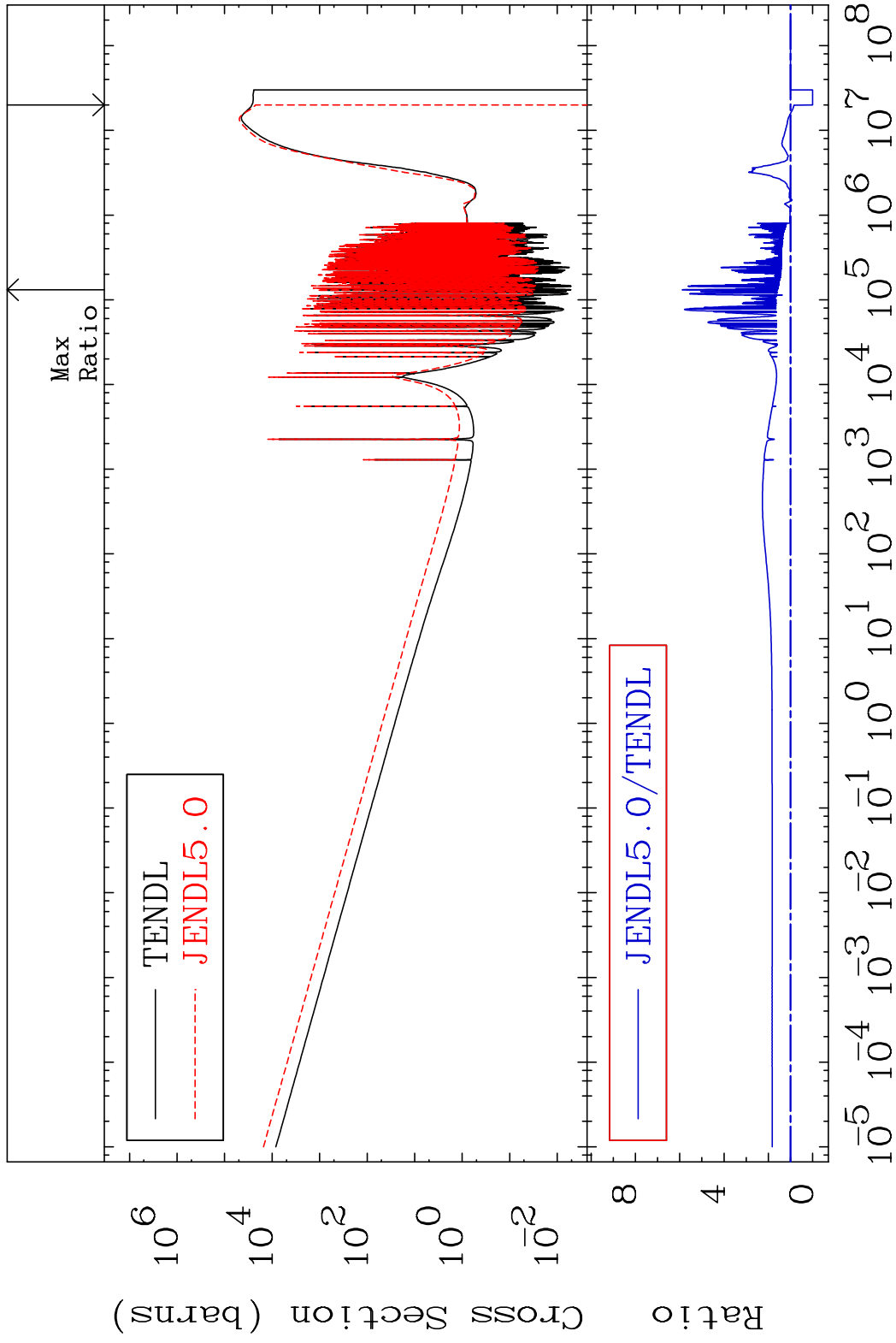
Incident Energy (eV)

28-Ni-60

MAT 2831 Dpa inelastic (mt51-91) 28-Ni-60
 Cross Section -100.0 To 9999. %



MAT 2831 Dpa disappearance (mt102 -120) 28-Ni-60
Cross Section -100.0 To 488.2 %

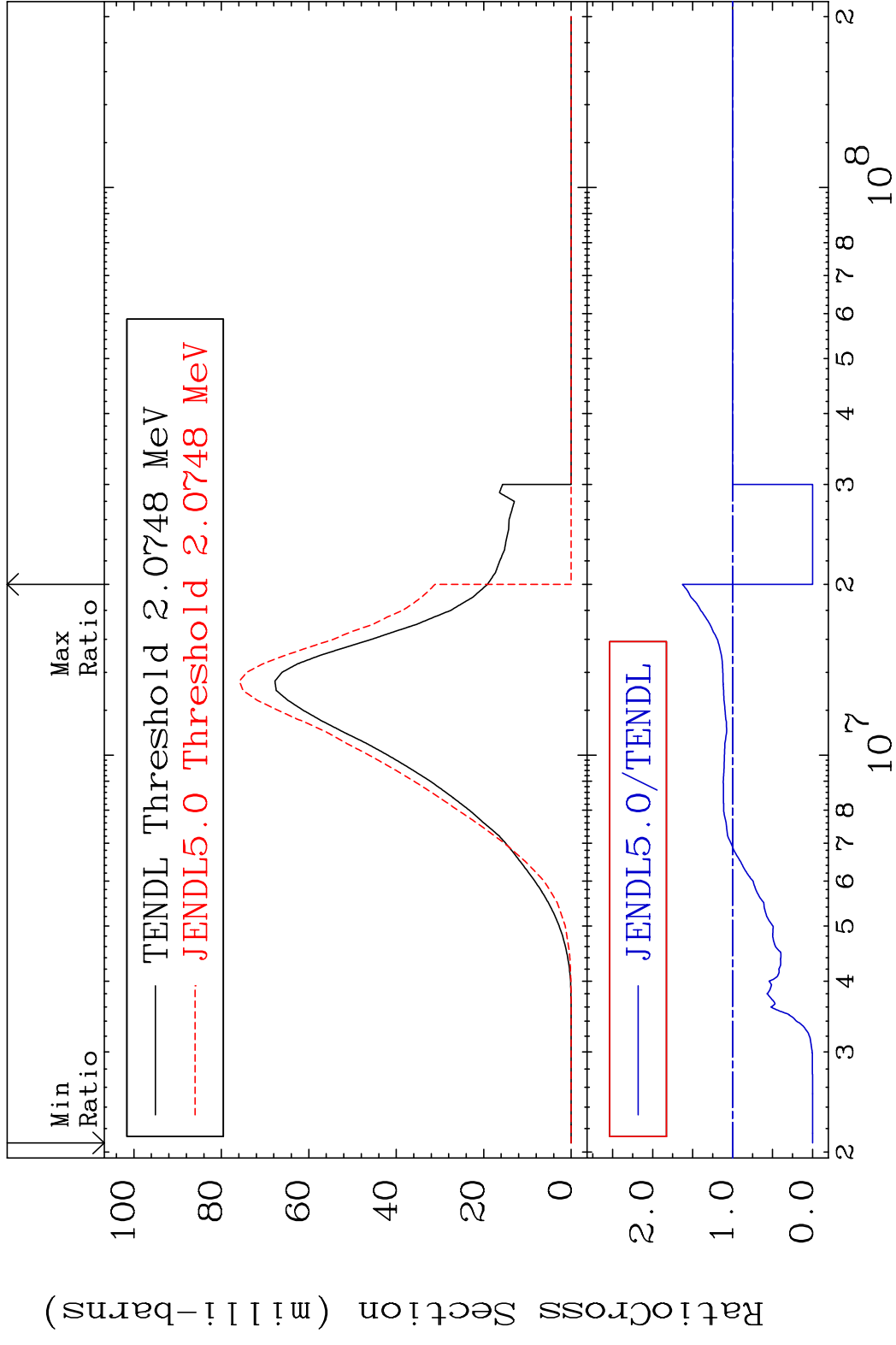


65

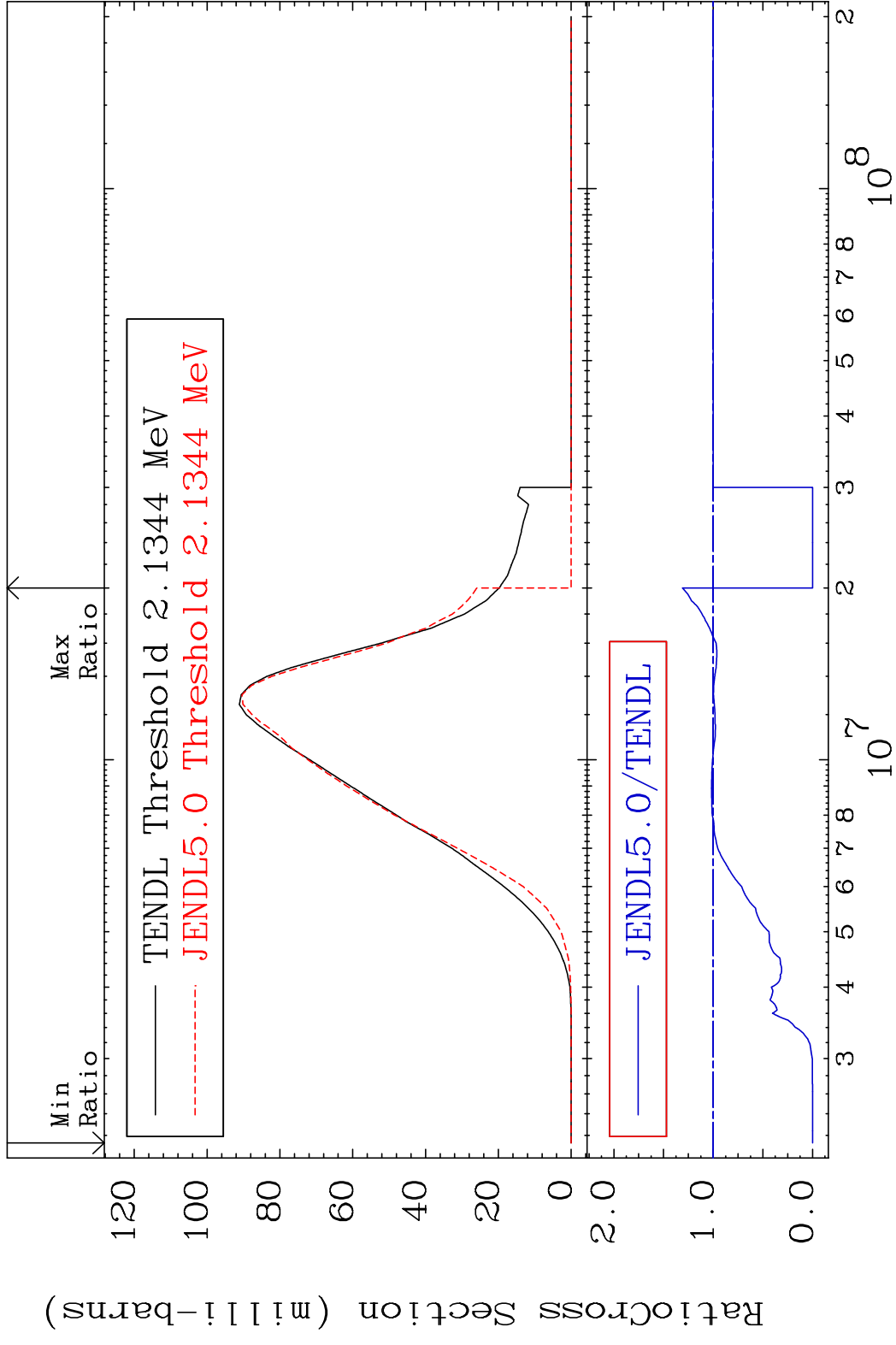
Incident Energy (eV)

28-Ni-60

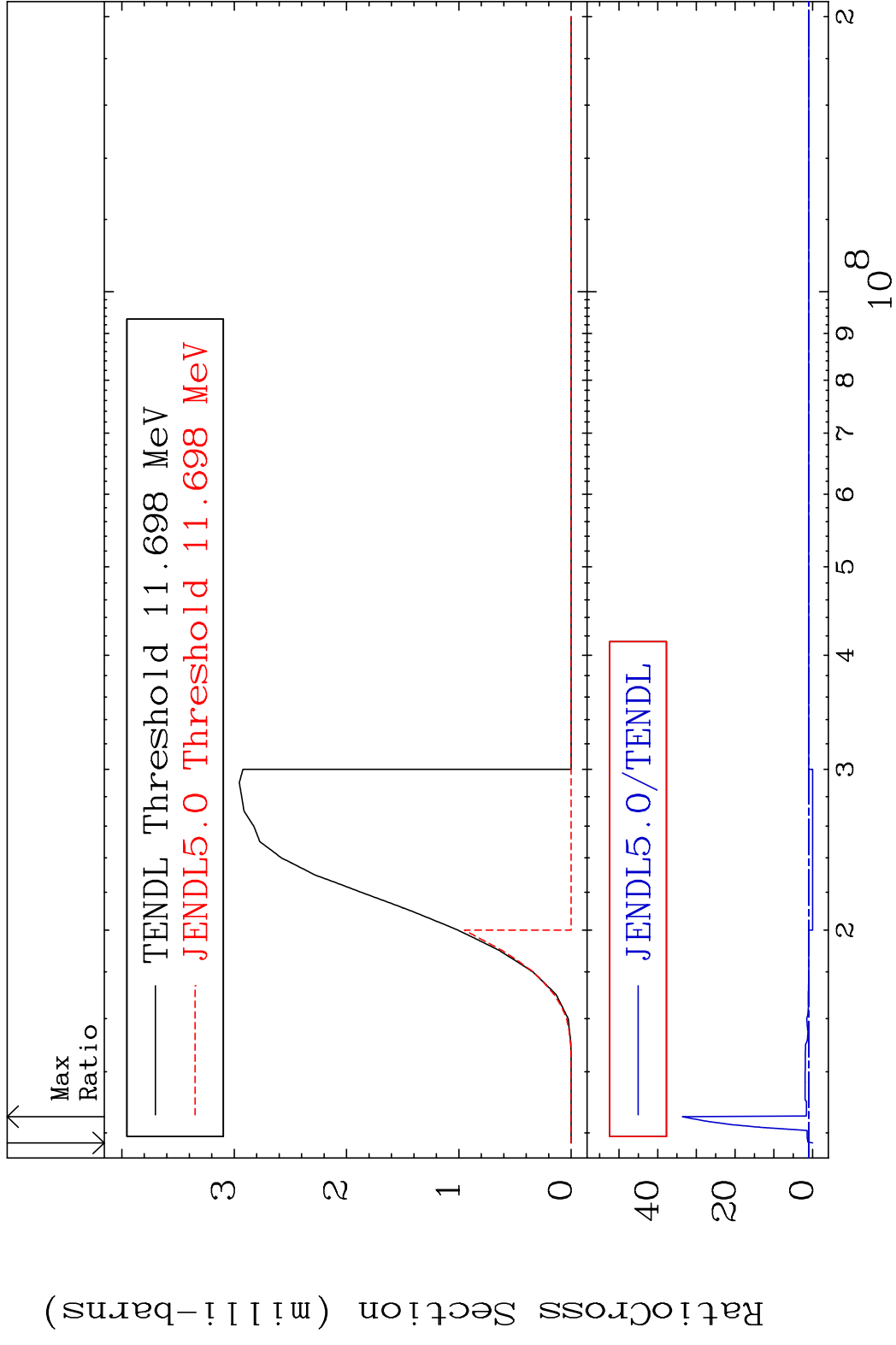
MAT 2831 (n, p) : 27-Co-60g 28-Ni-60
 Radionuclide Production Cross Section 180.01 dth 62.85 %



MAT 2831 (n,p):27-Co-60m1 28-Ni-60
 Radionuclide Production Cross Section 31.07 %



MAT 2831 (n, t):27-Co-58g 28-Ni-60
 Radionuclide Production Cross Section Ratio



MAT 2831 (n,t):27-Co-58m1 28-Ni-60
 Radionuclide Production Cross Section 100% 1039. %

