

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

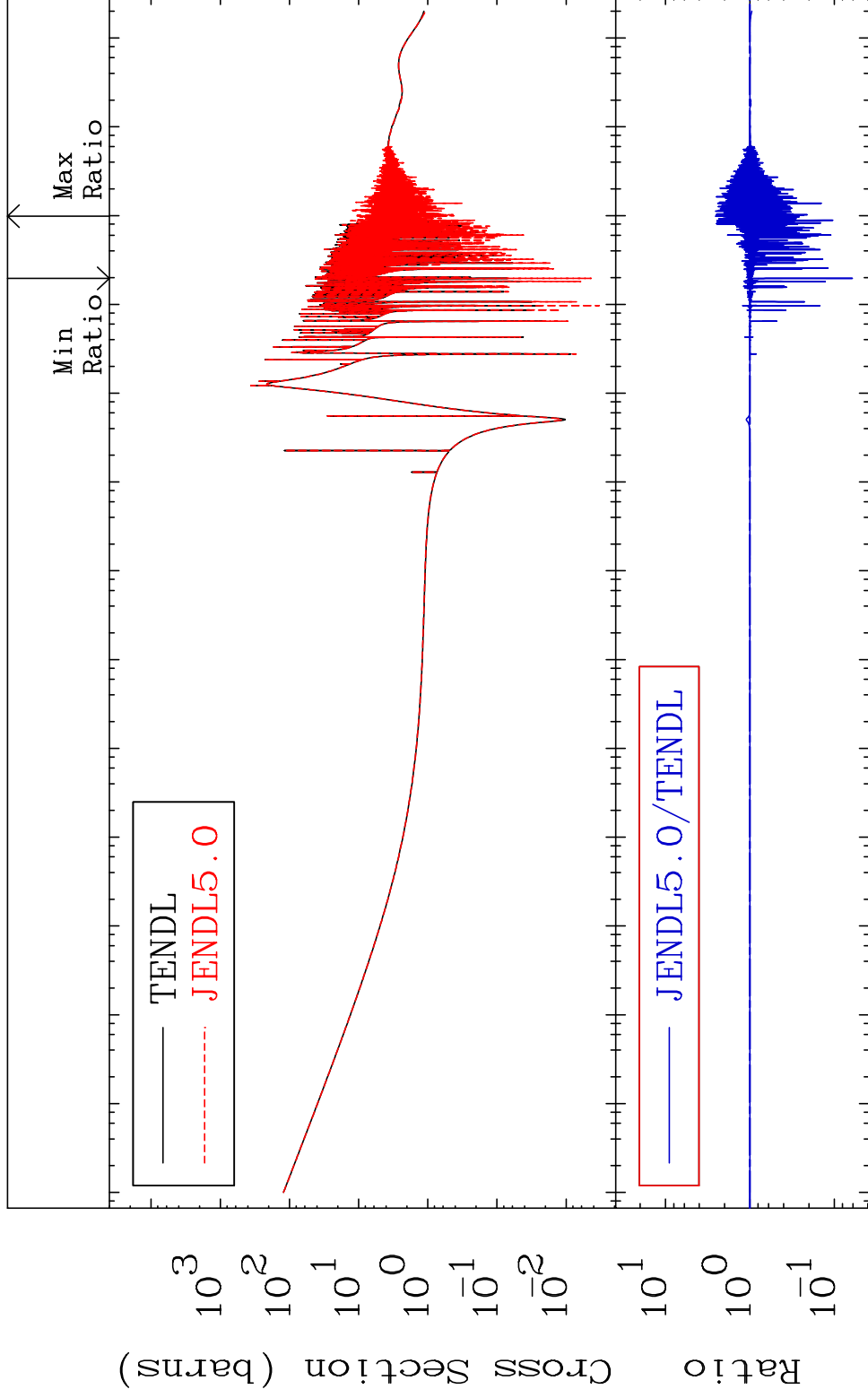
MAT 2831

Total

28-Ni-60

Cross Section

-93.86 To 154.9 %



1

Incident Energy (eV)

28-Ni-60

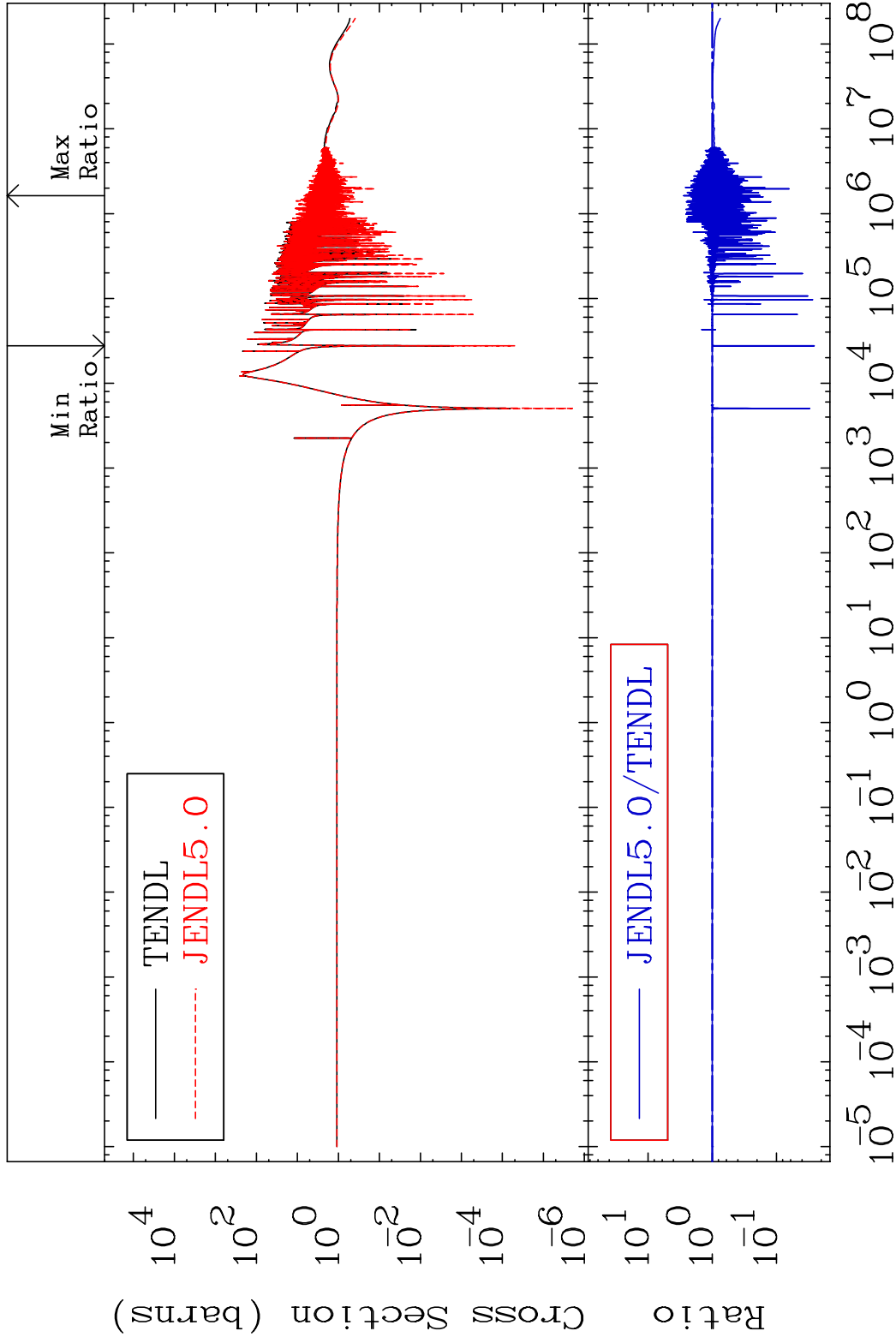
MAT 2831

Elastic

28-Ni-60

Cross Section

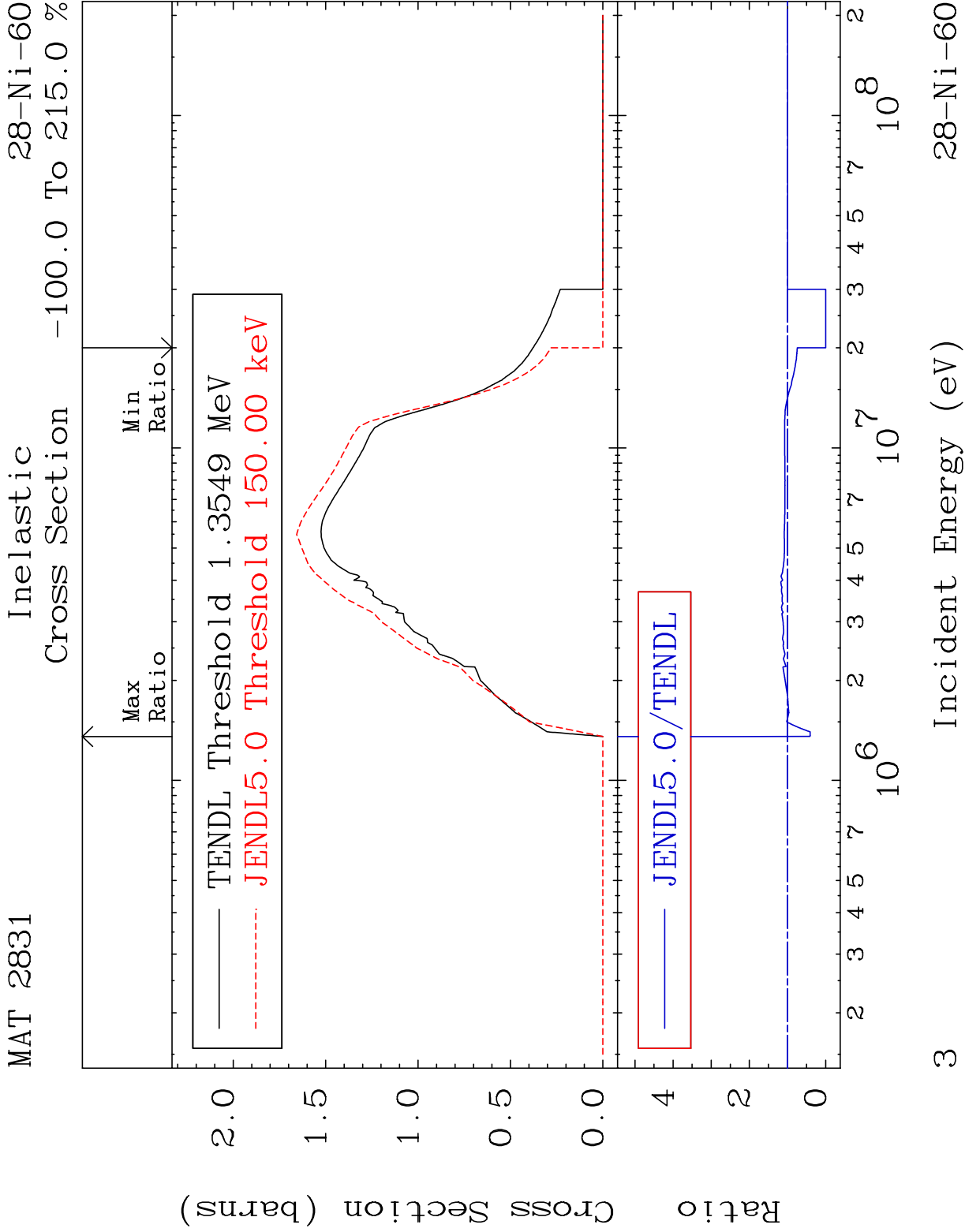
-97.41 To 178.0 %



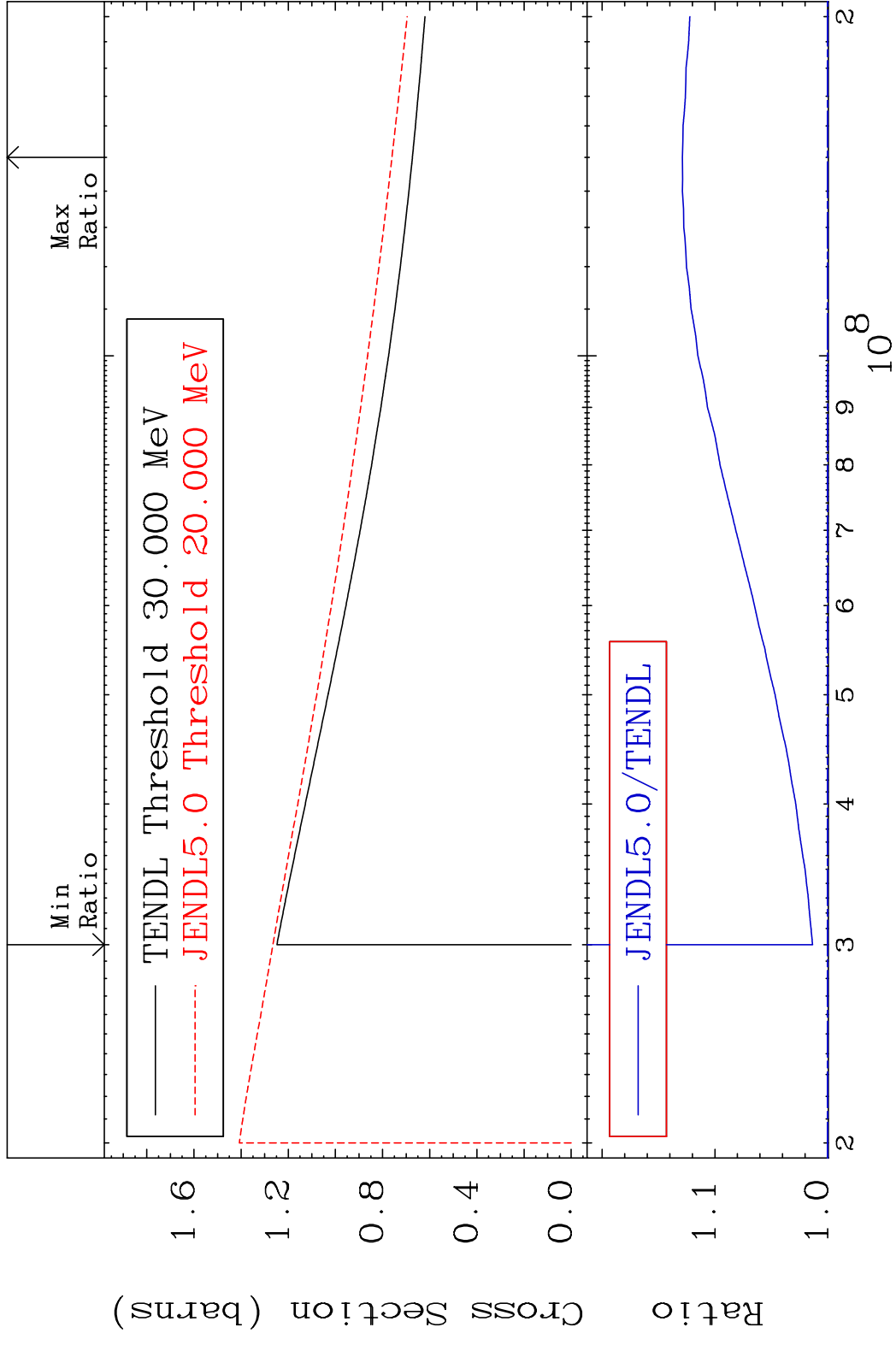
2

Incident Energy (eV)

28-Ni-60

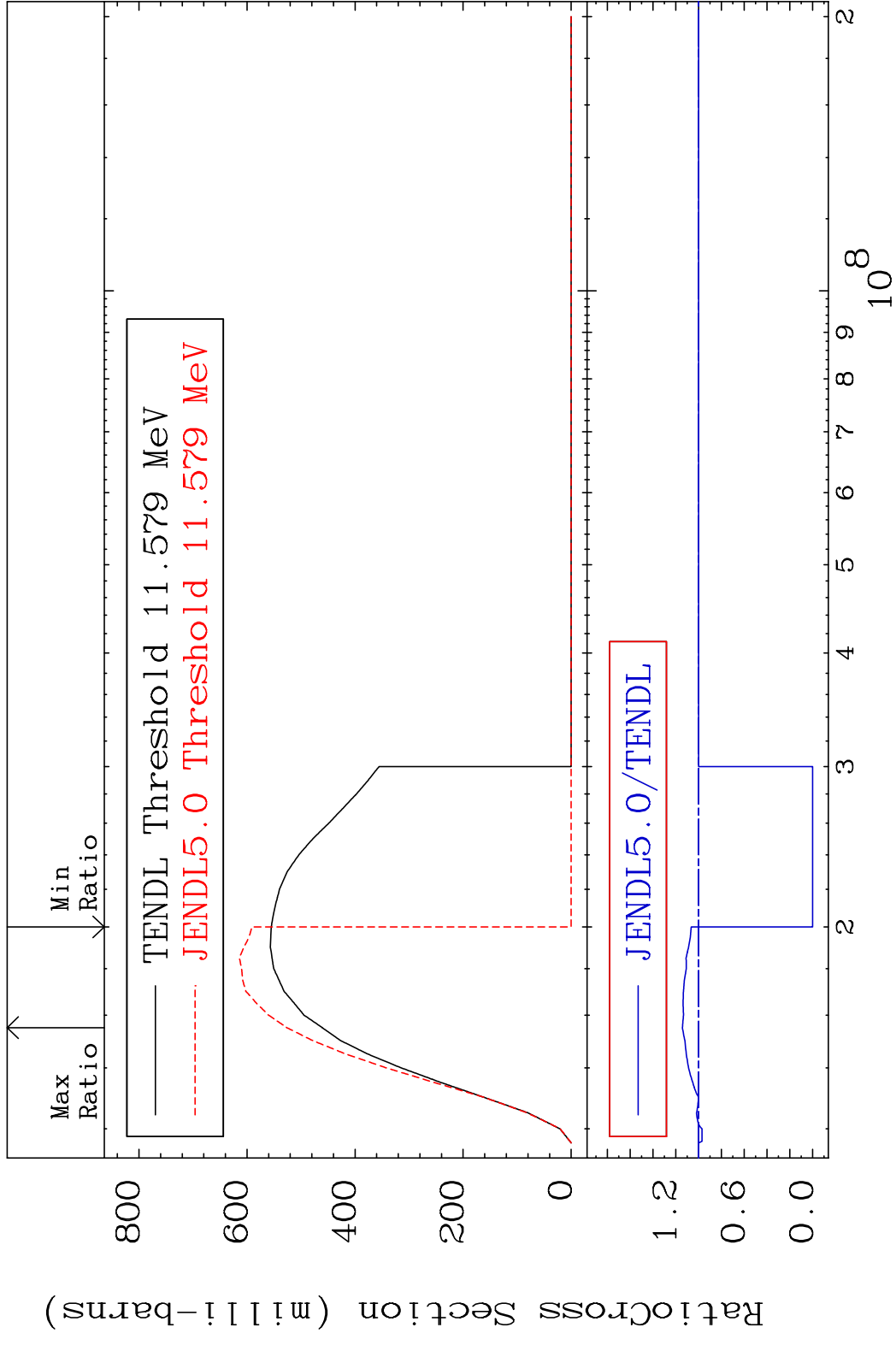


MAT 2831 (n, remainder) 28-Ni-60  
 Cross Section 1.334 To 12.89 %

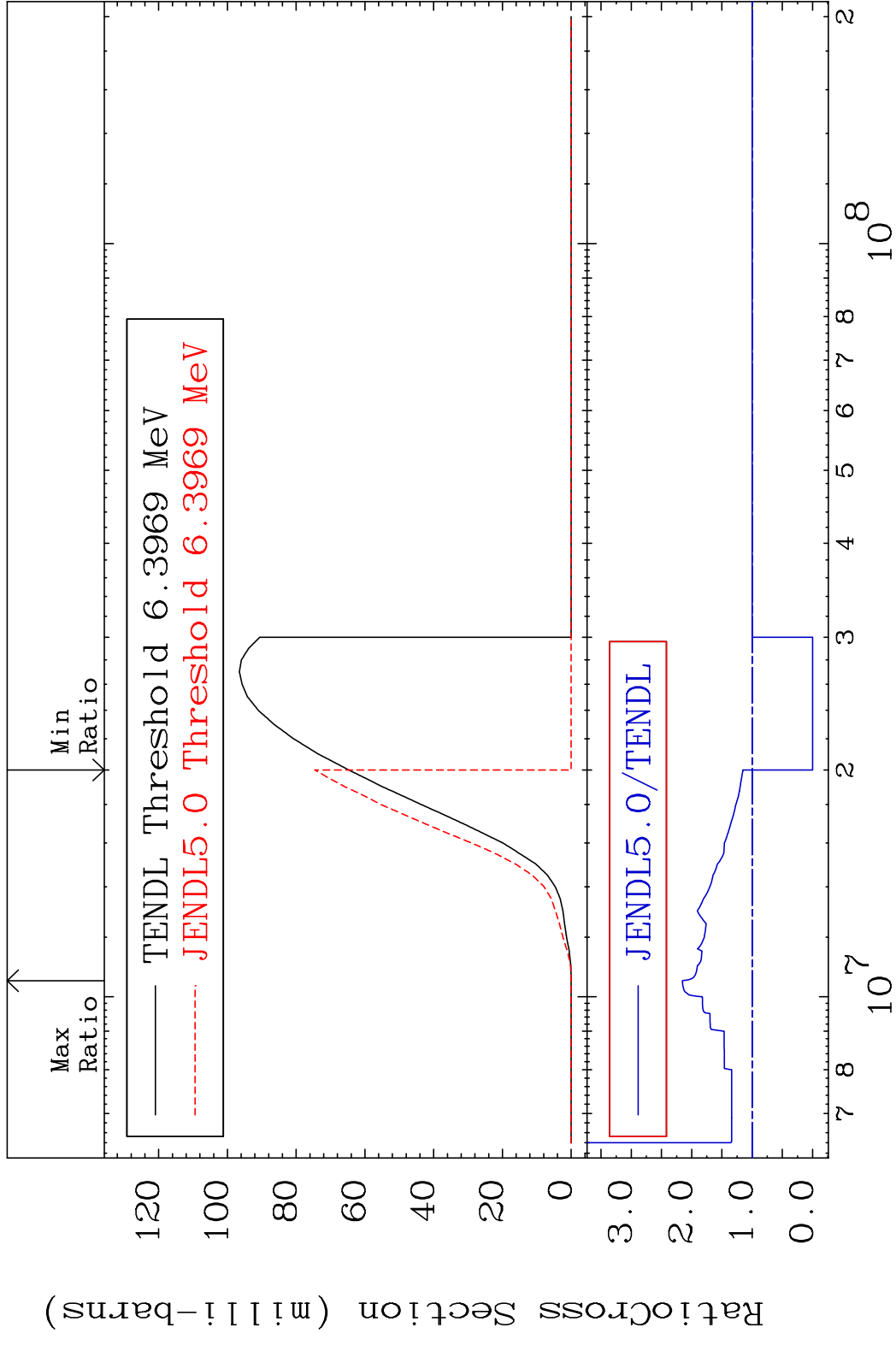


4 28-Ni-60

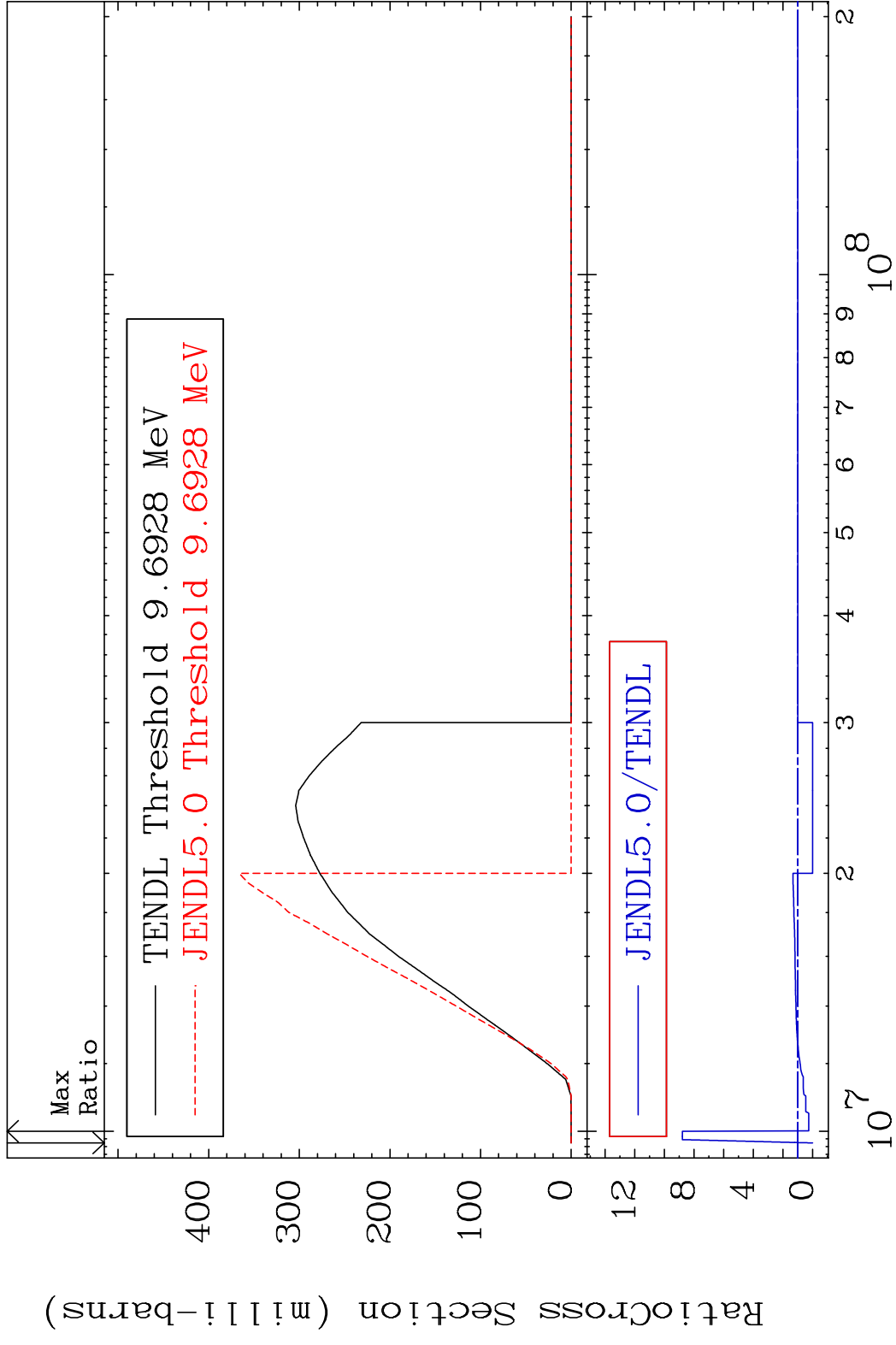
MAT 2831 (n,2n) 28-Ni-60  
 Cross Section -100.0 To 14.24 %



MAT 2831 (n, n')  $\alpha$  28-Ni-60  
 Cross Section -100.0 To 115.5 %

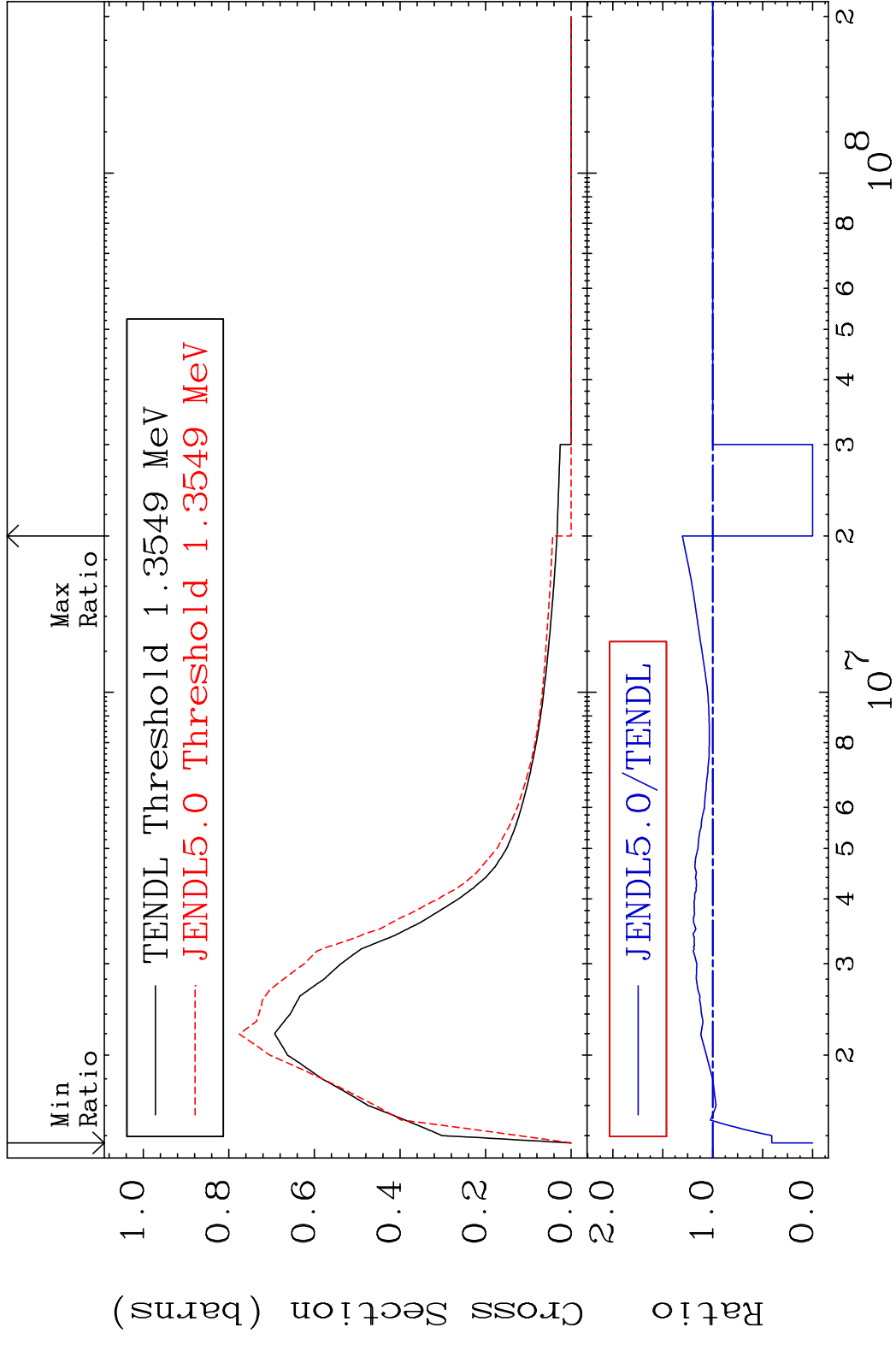


MAT 2831 (n, n') p 28-Ni-60  
 Cross Section -100.0 To 778.4 %

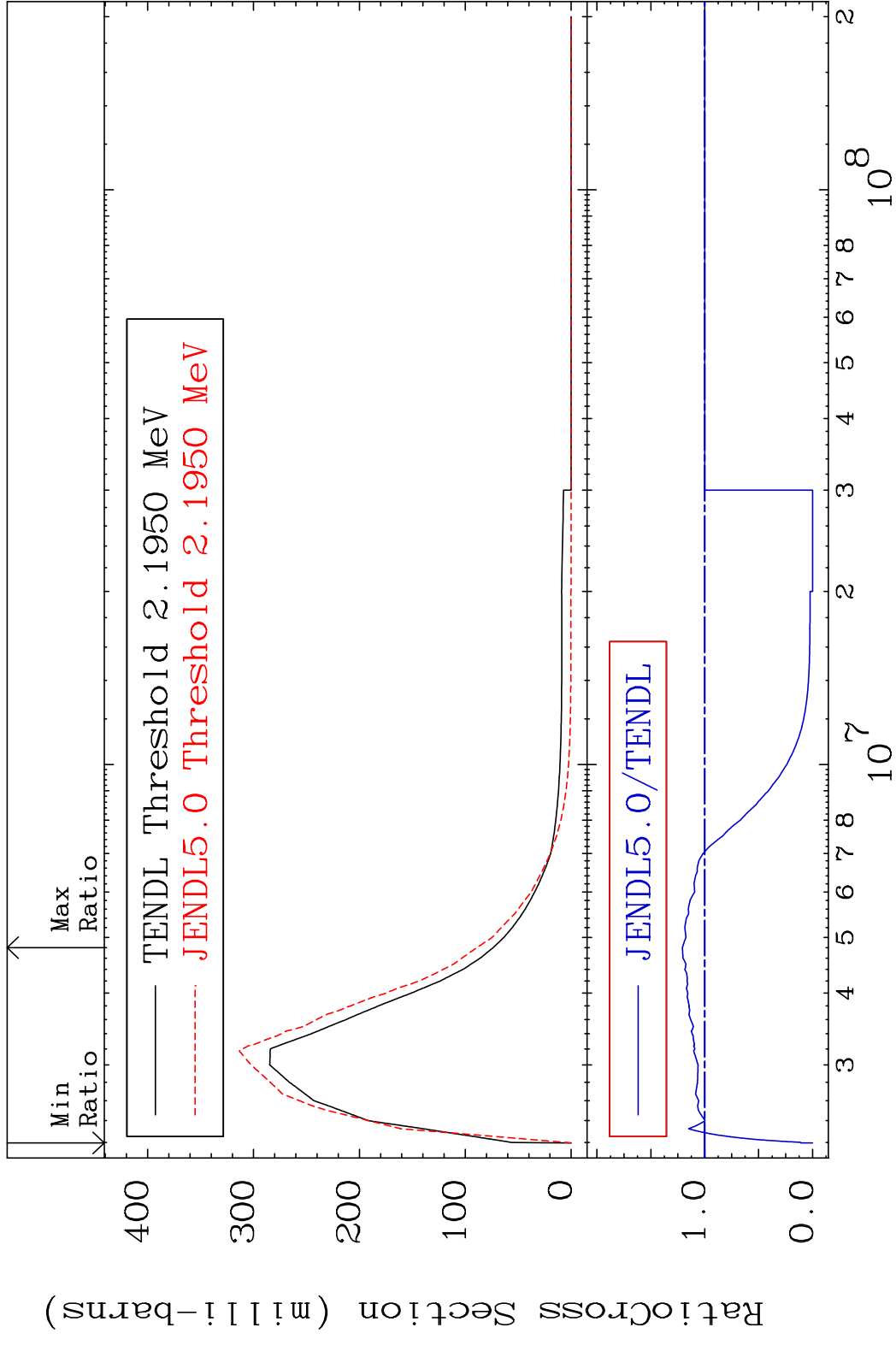




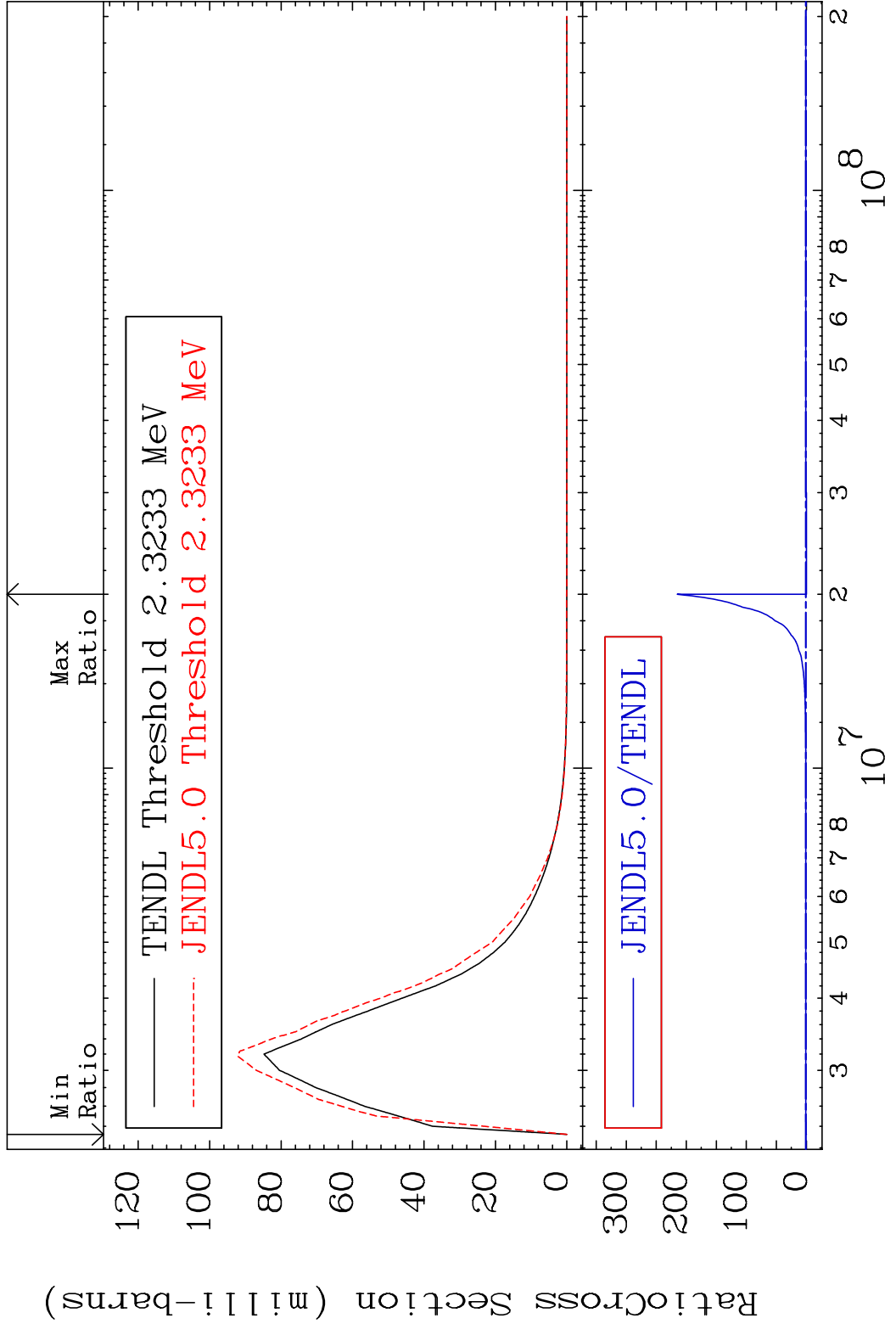
MAT 2831 MT= 51 (n, n') Level 28-Ni-60  
 Cross Section -100.0 To 30.34 %



MAT 2831 MT= 52 (n, n') Level 28-Ni-60  
 Cross Section -100.0 To 20.79 %

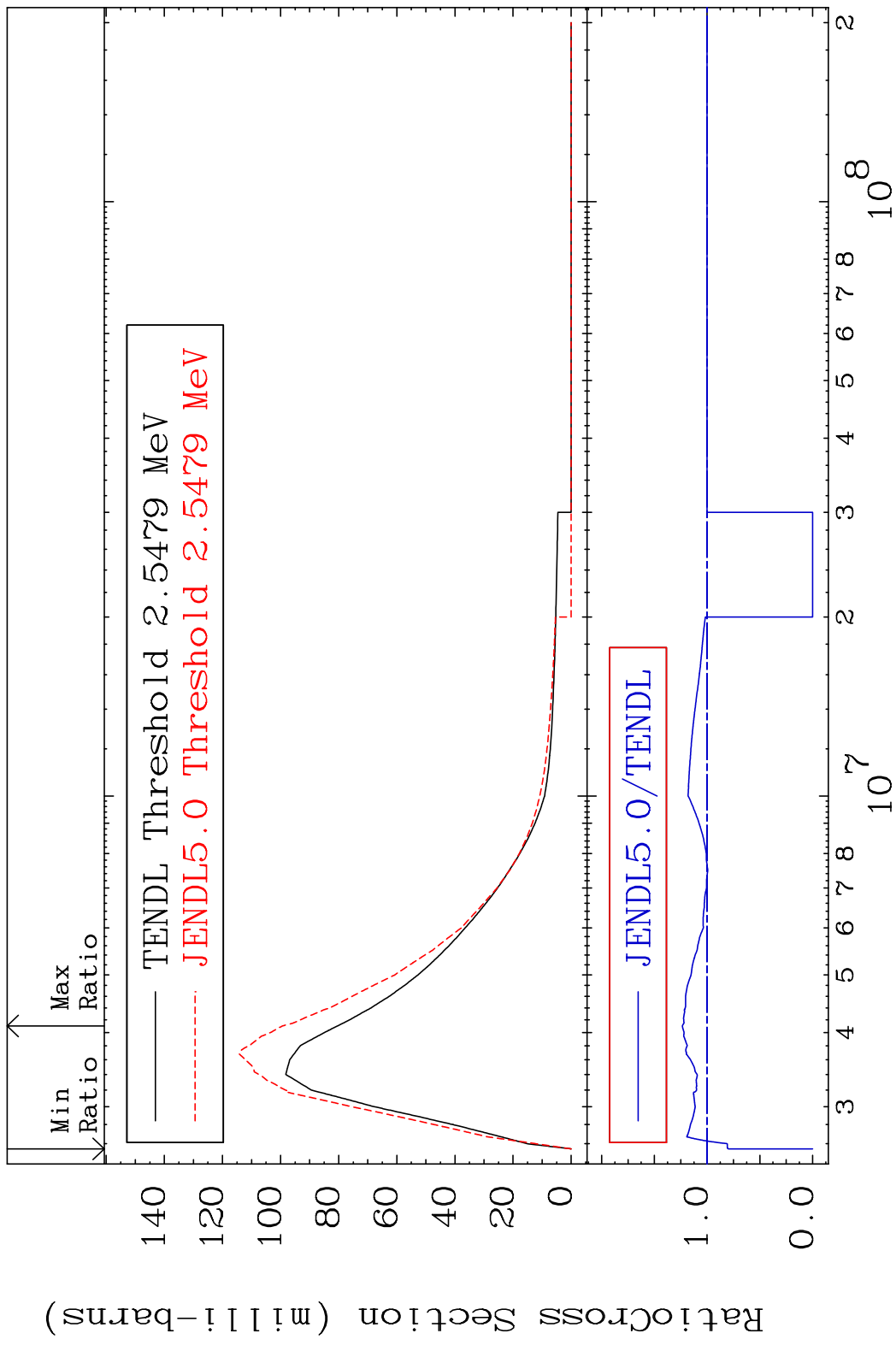


MAT 2831 MT= 53 (n, n') Level 28-Ni-60  
 Cross Section -100.0 To 9999. %

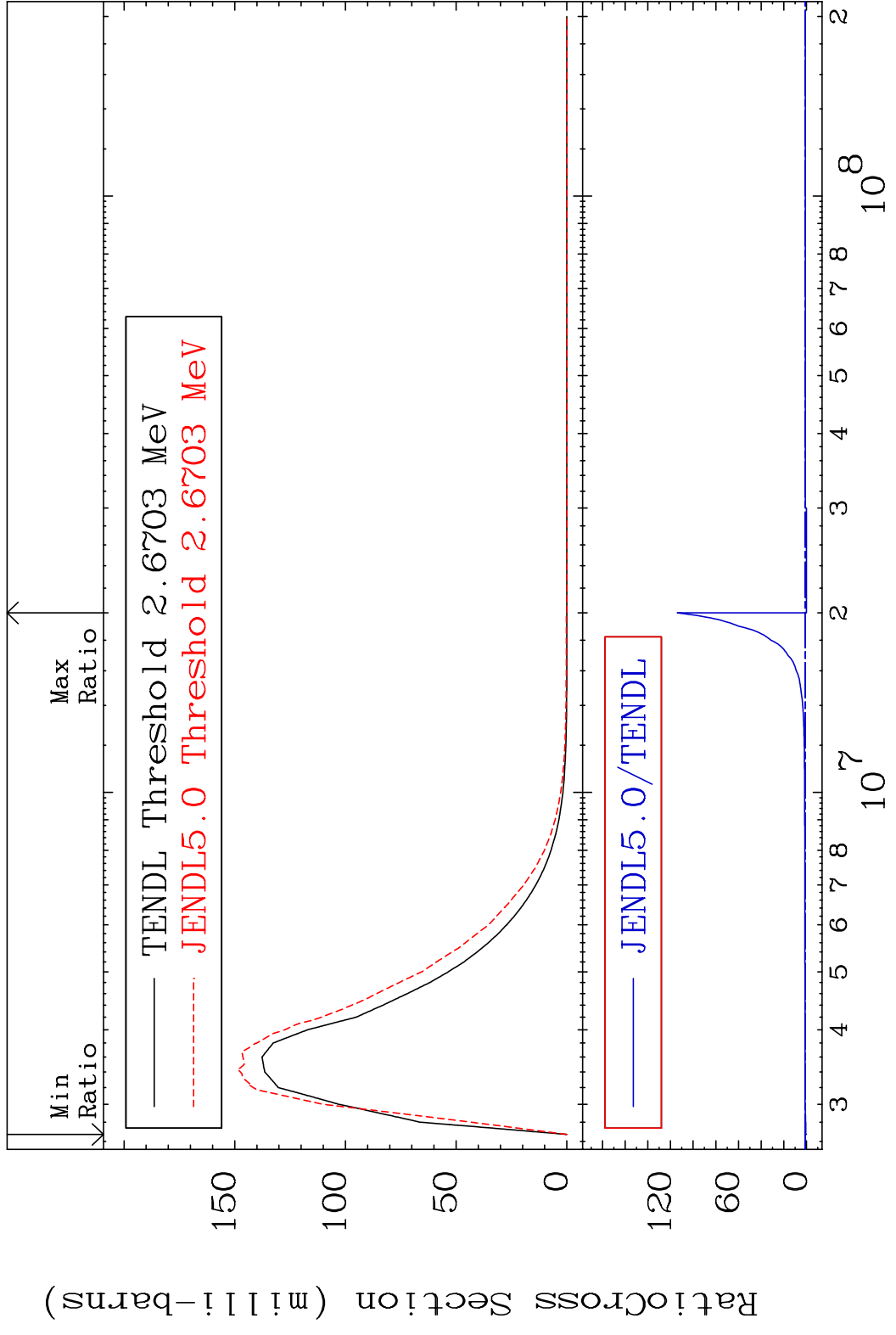


10 Incident Energy (eV) 28-Ni-60

MAT 2831 MT= 54 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 23.47 %

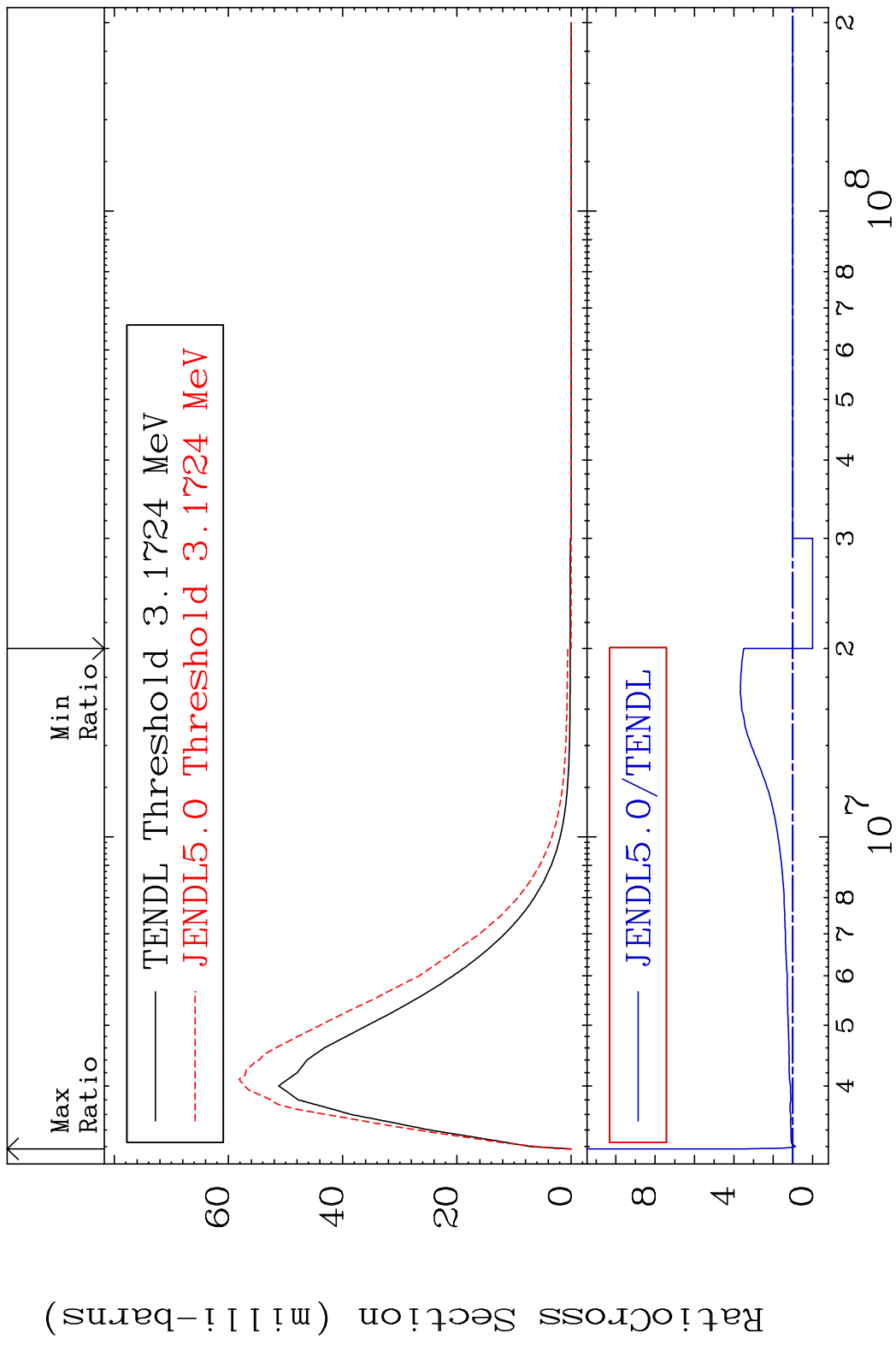


MAT 2831 MT= 55 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 9999. %

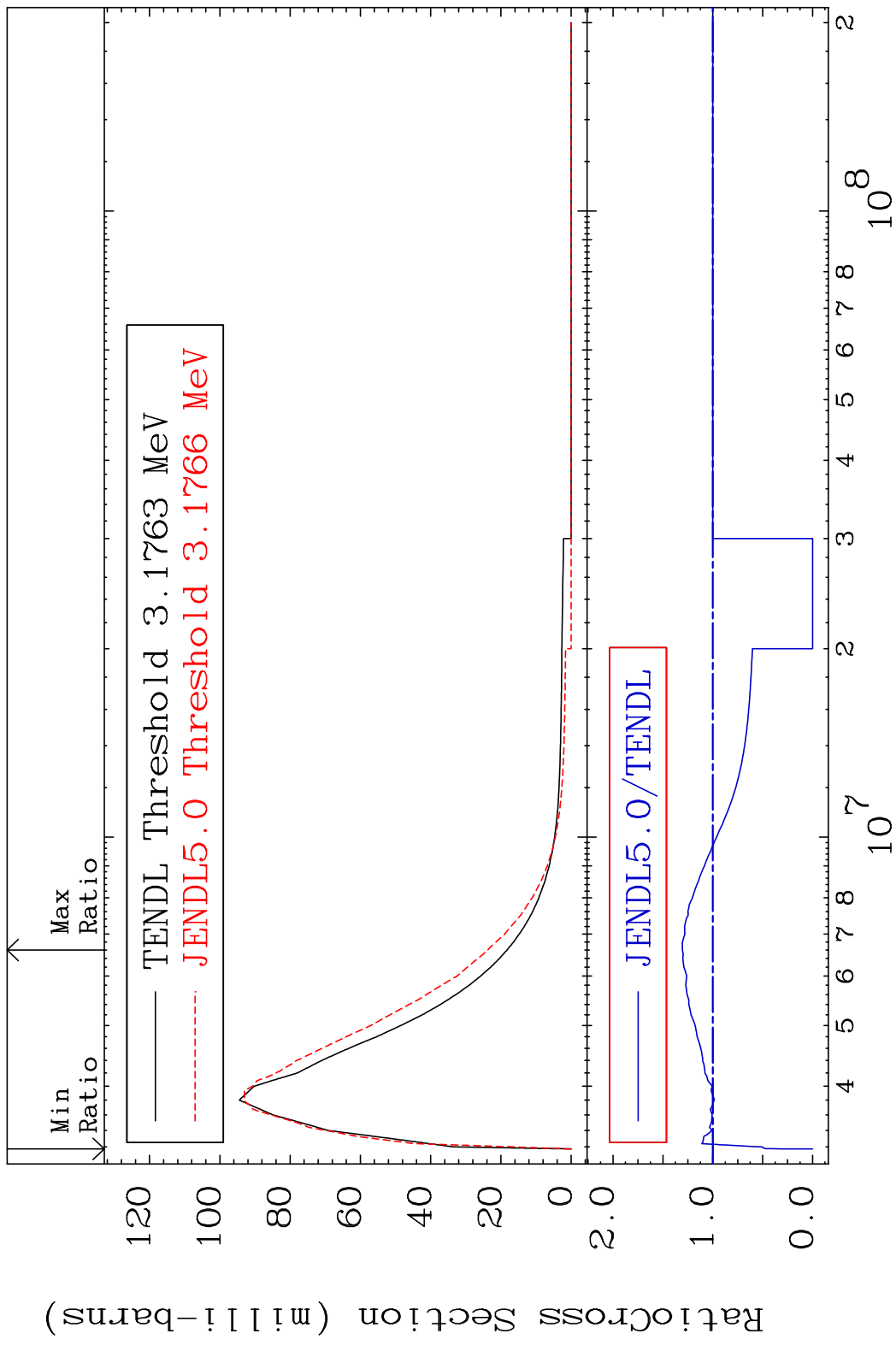


12 28-Ni-60

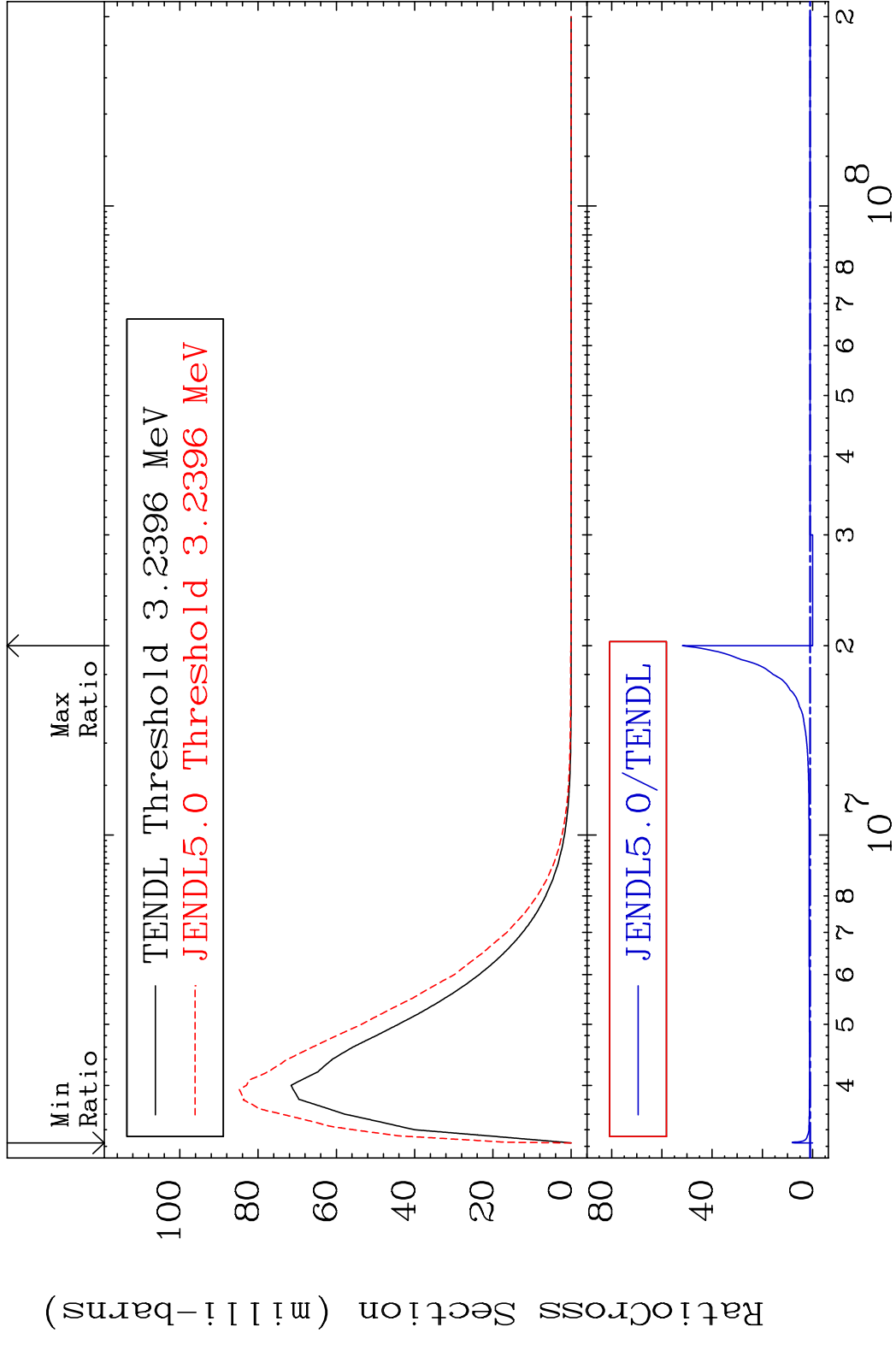
MAT 2831 MT= 56 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 561.6 %



MAT 2831 MT= 57 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 30.50 %

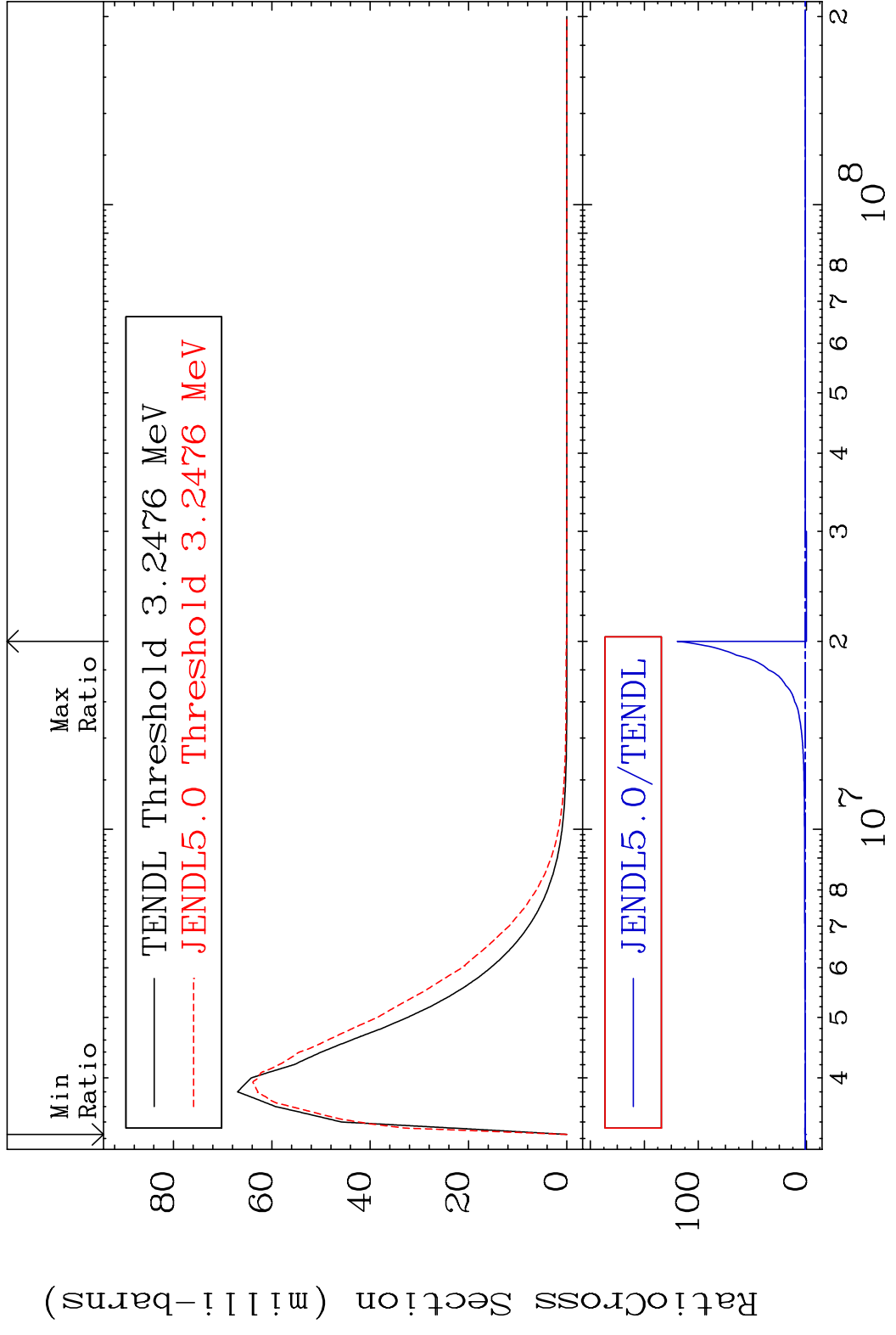


MAT 2831 MT= 58 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 5084. %

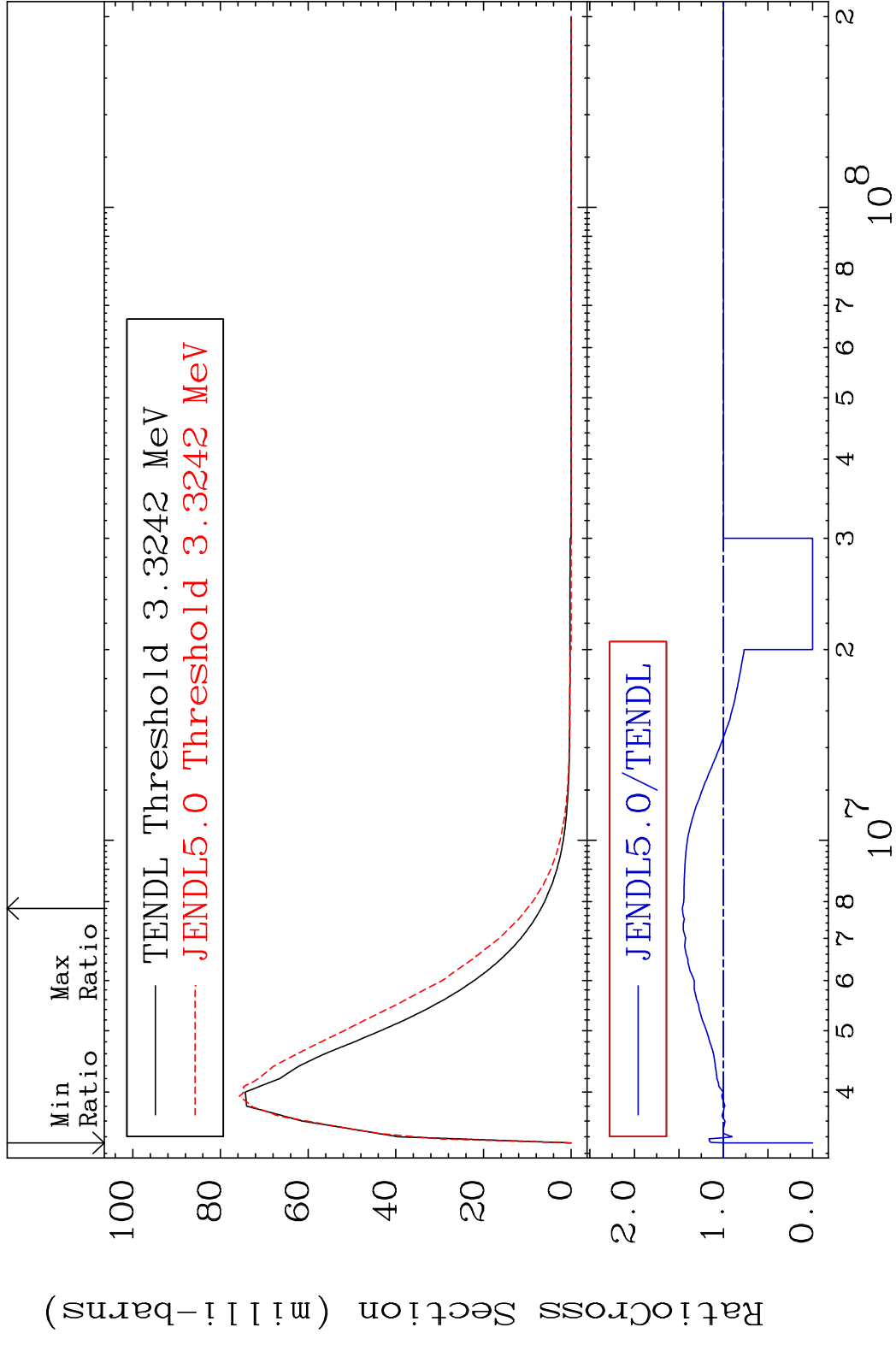




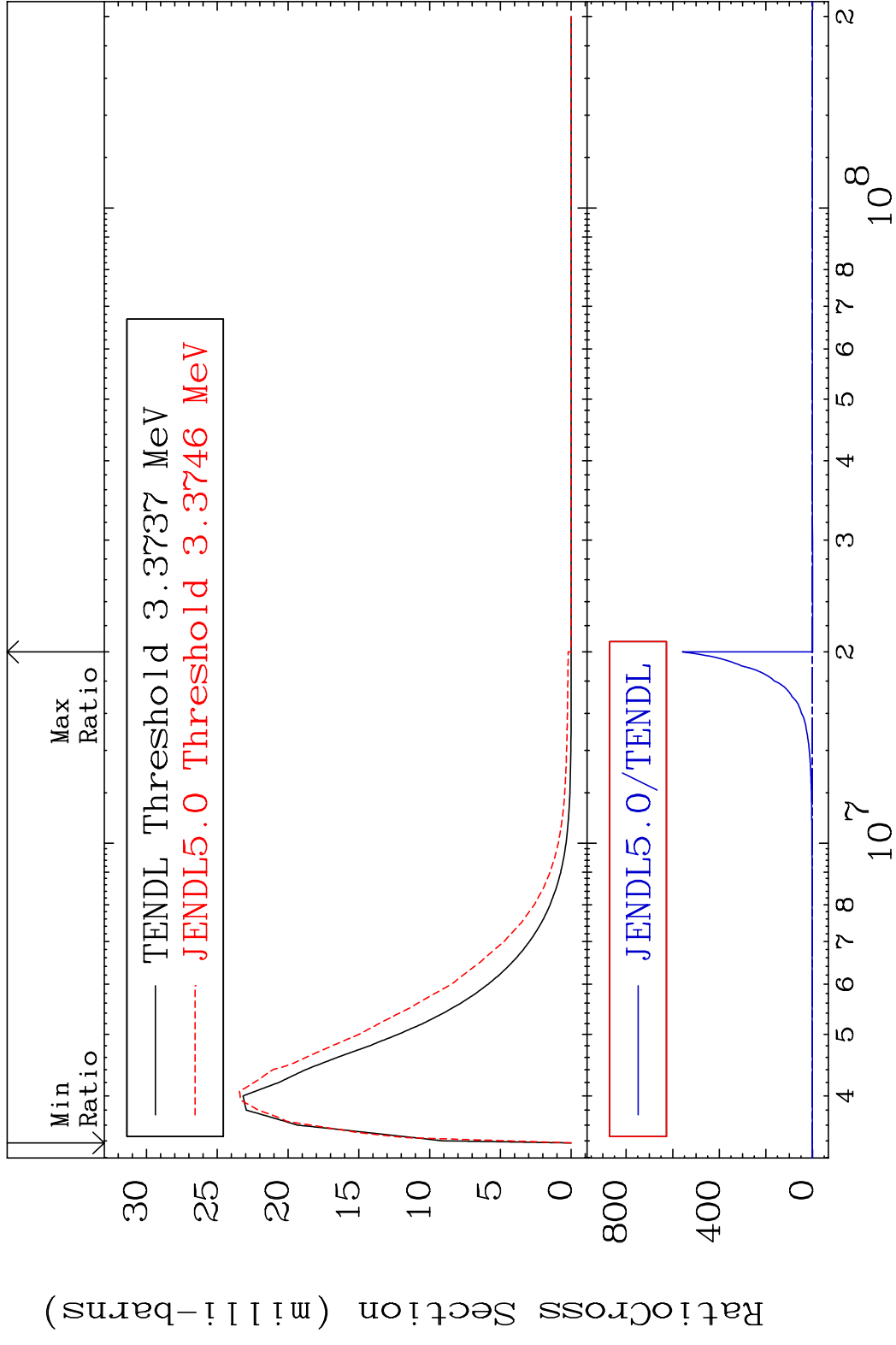
MAT 2831 MT= 59 (n, n') Level 28-Ni-60  
 Cross Section -100.0 To 9999. %



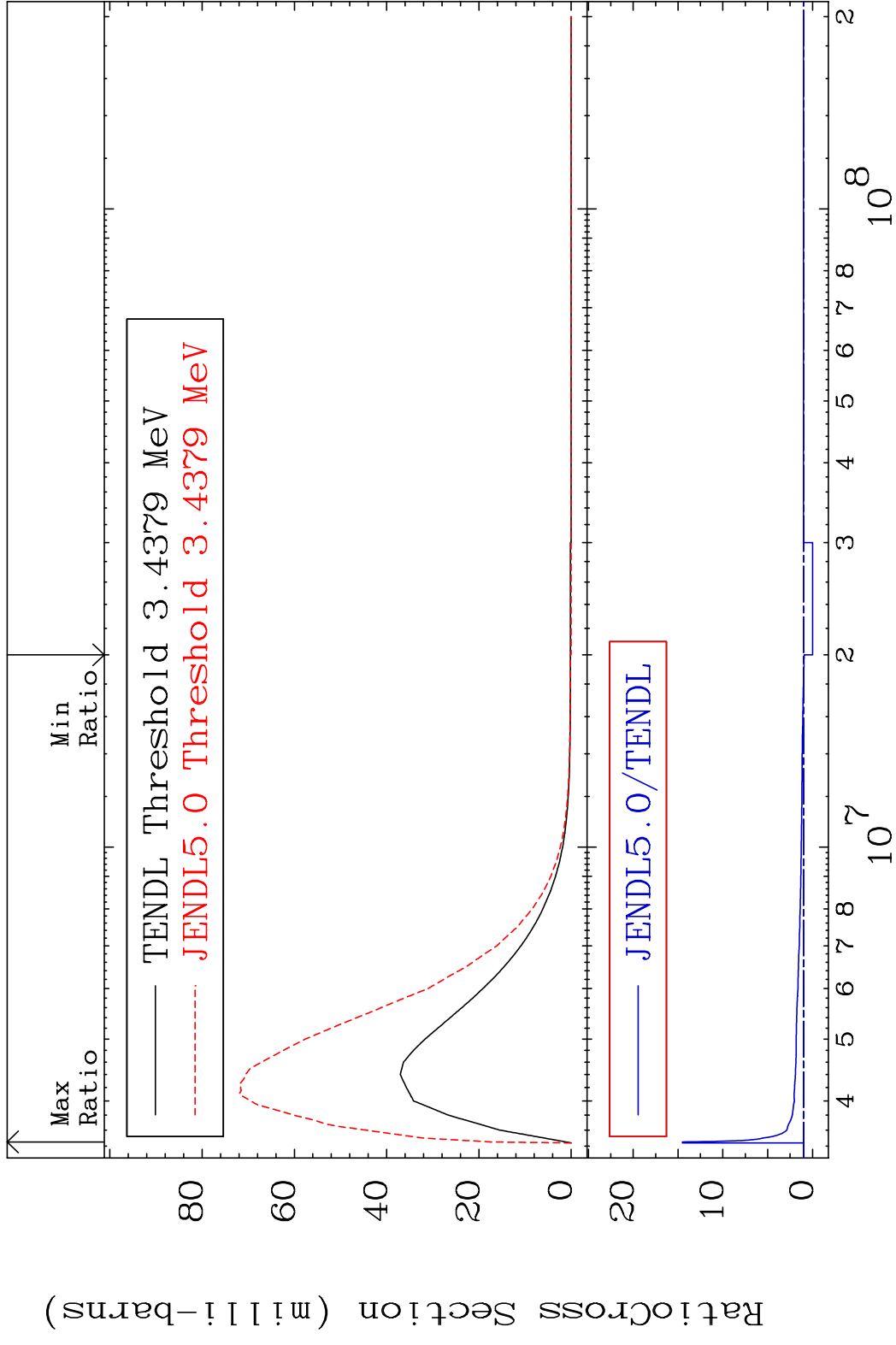
MAT 2831 MT= 60 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 46.16 %



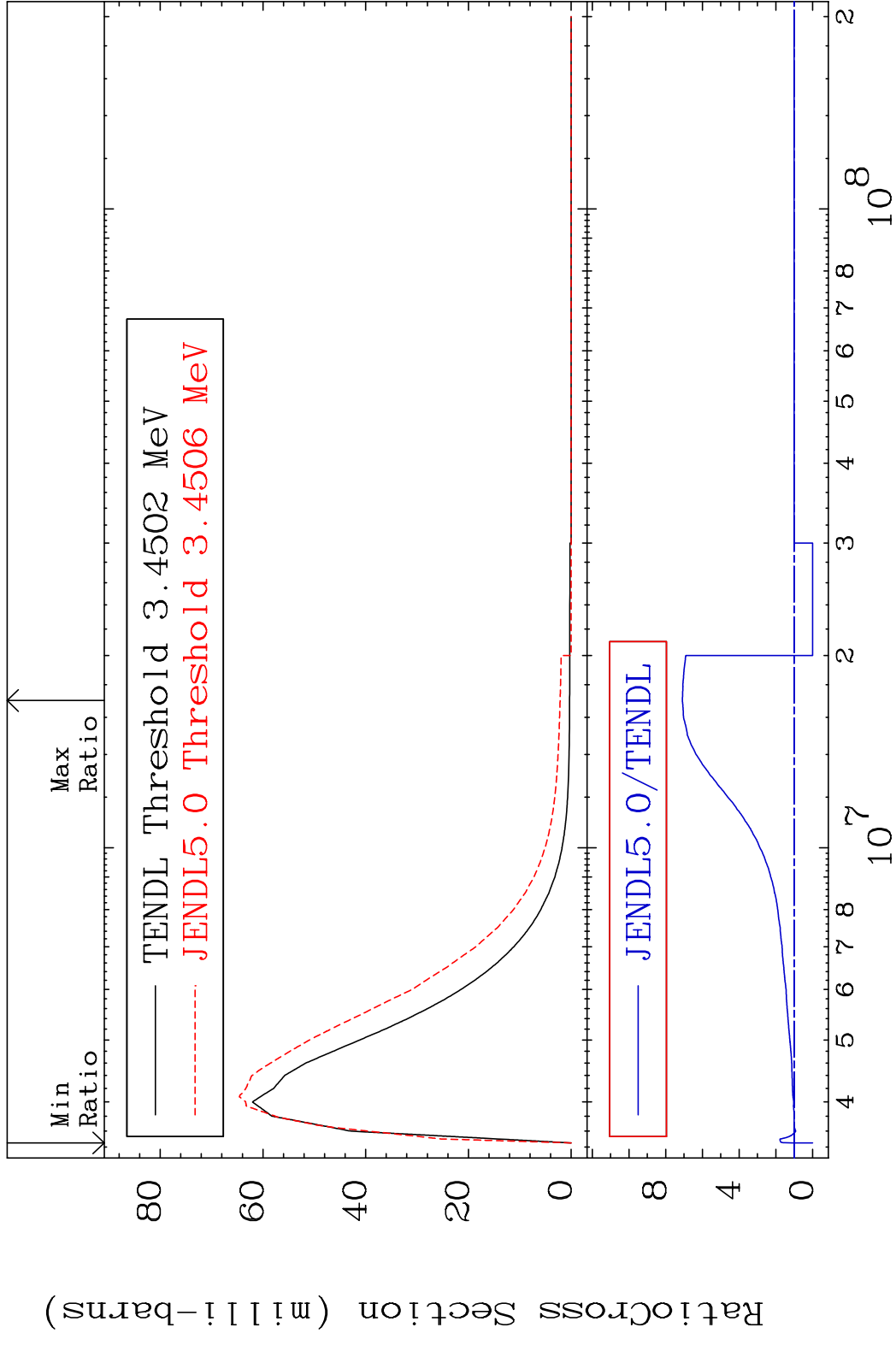
MAT 2831 MT= 61 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 9999. %



MAT 2831 MT= 62 (n, n') Level 28-Ni-60  
 Cross Section -100.0 To 1352. %

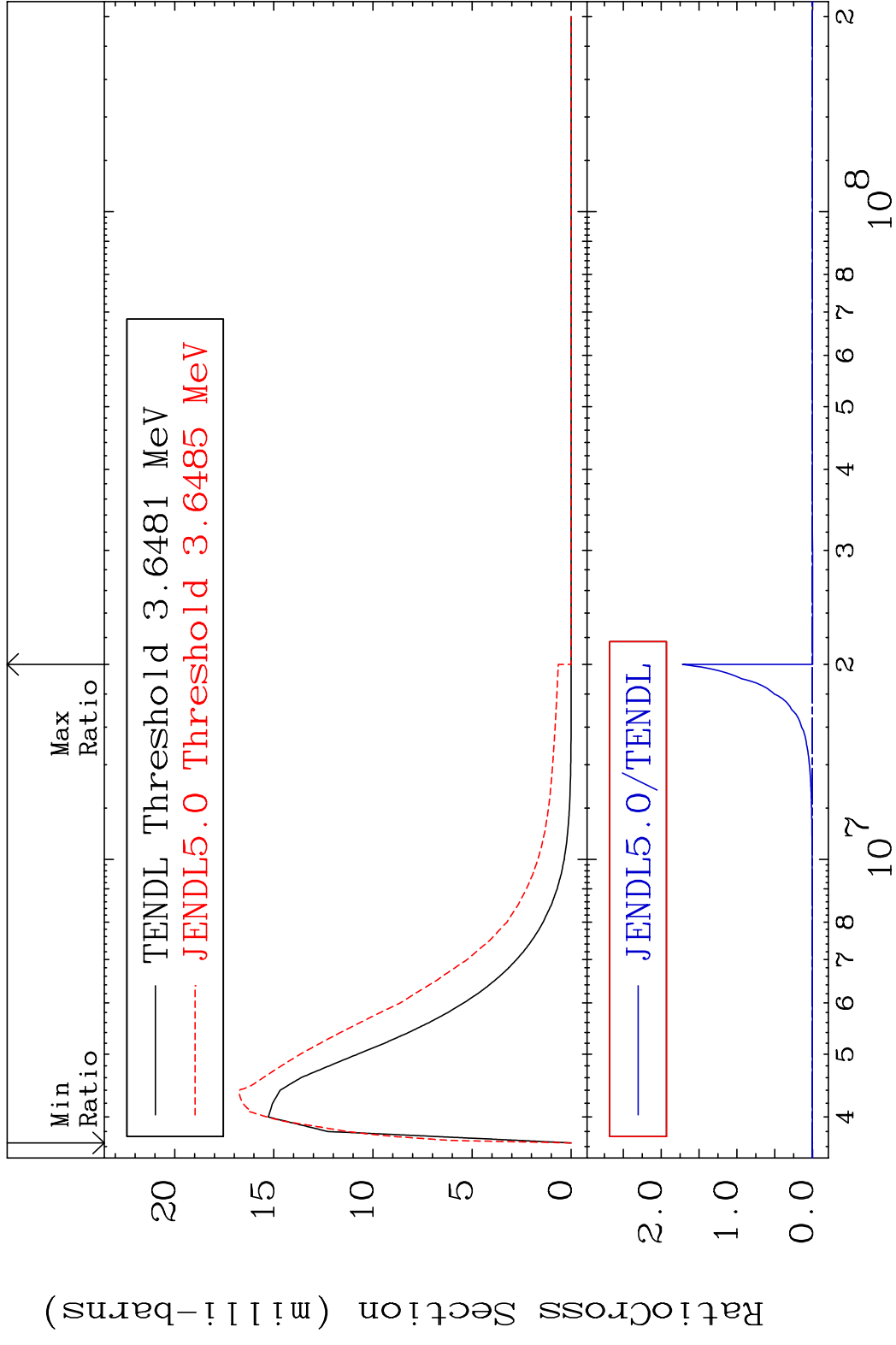


MAT 2831 MT= 63 (n, n') Level 28-Ni-60  
 Cross Section -100.0 To 609.2 %

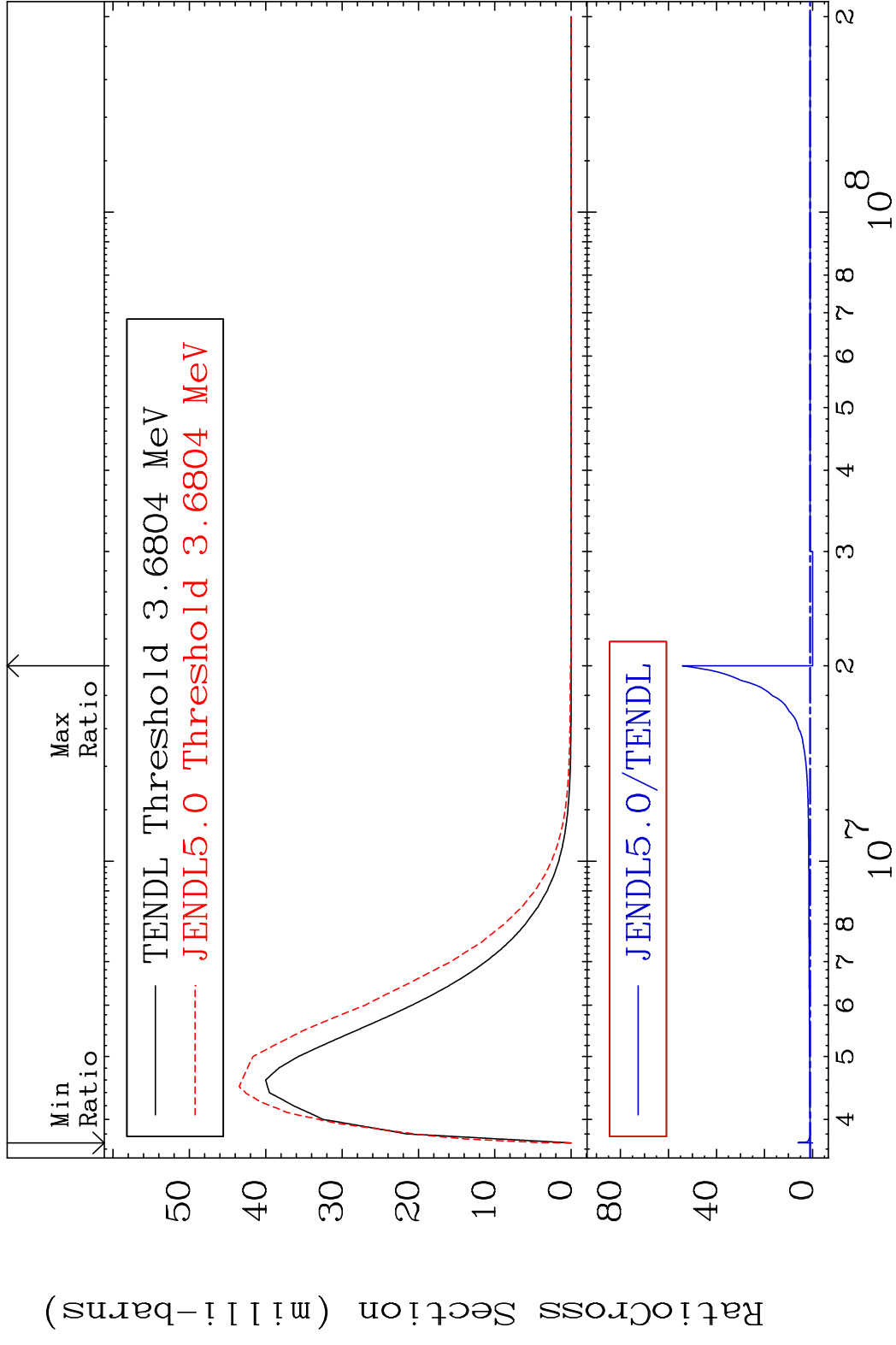


20 28-Ni-60

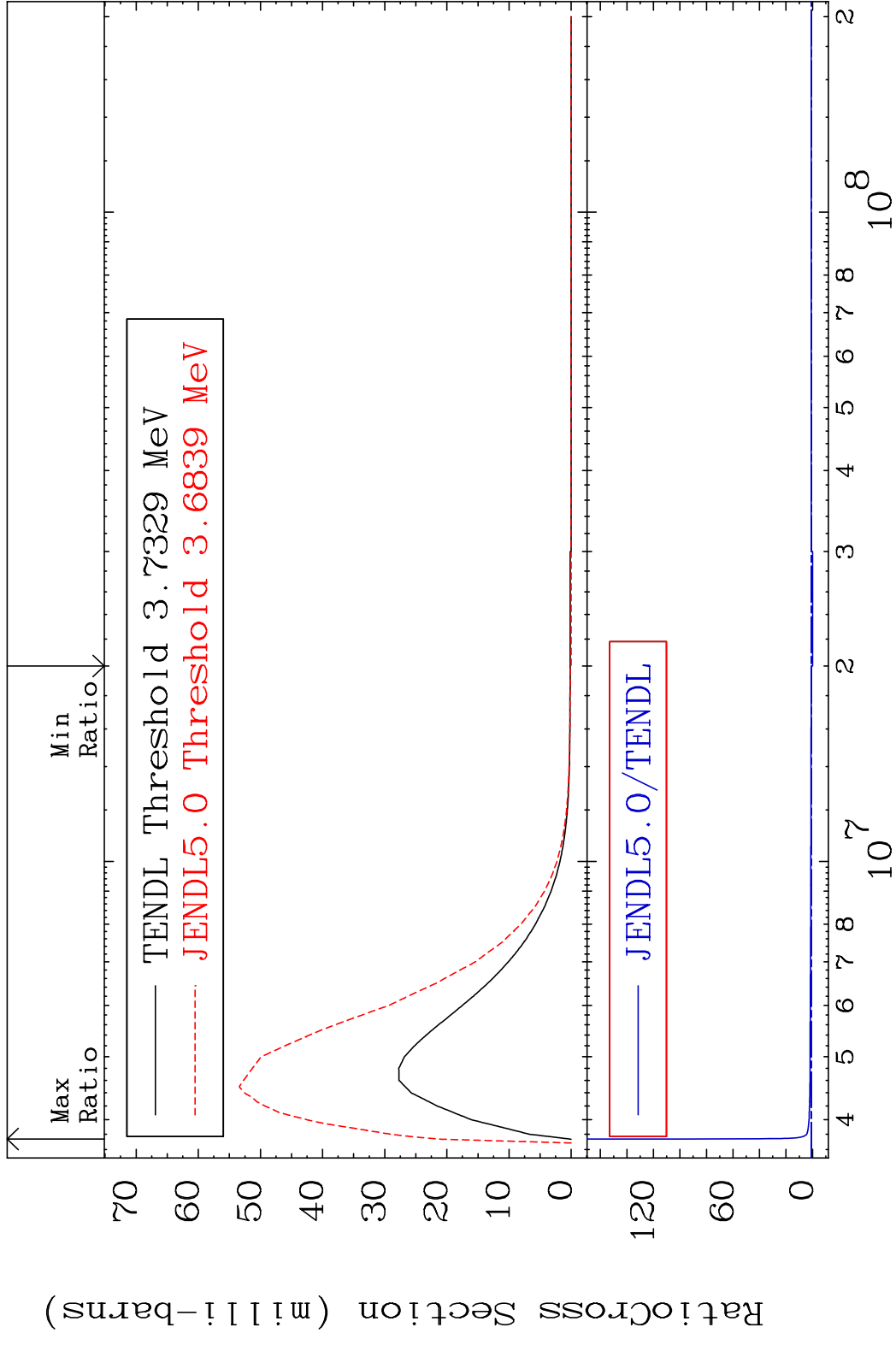
MAT 2831 MT= 64 (n, n') Level 28-Ni-60  
 Cross Section -100.0 To 9999. %



MAT 2831 MT= 65 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 5322. %

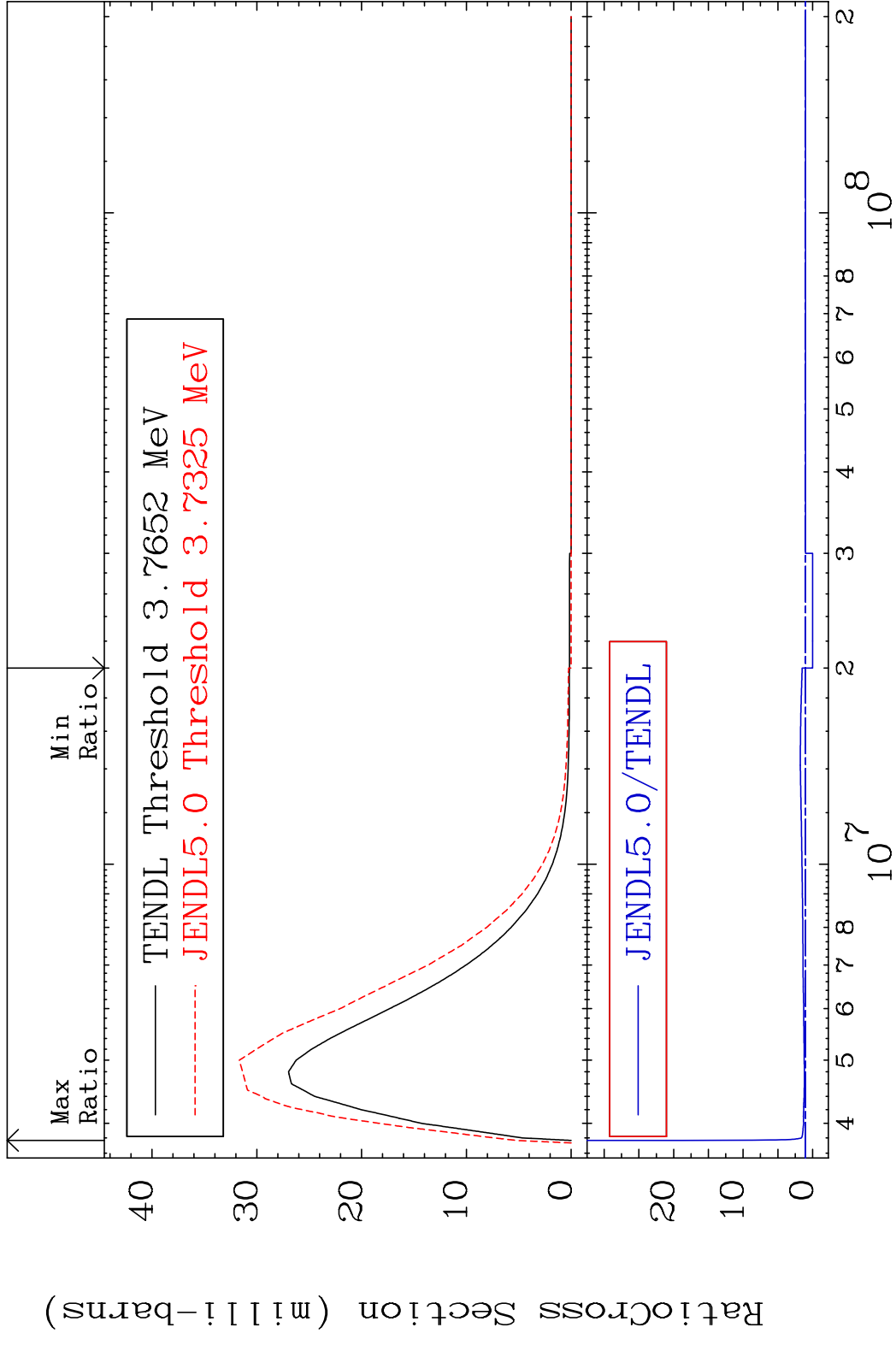


MAT 2831 MT= 66 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 9719. %



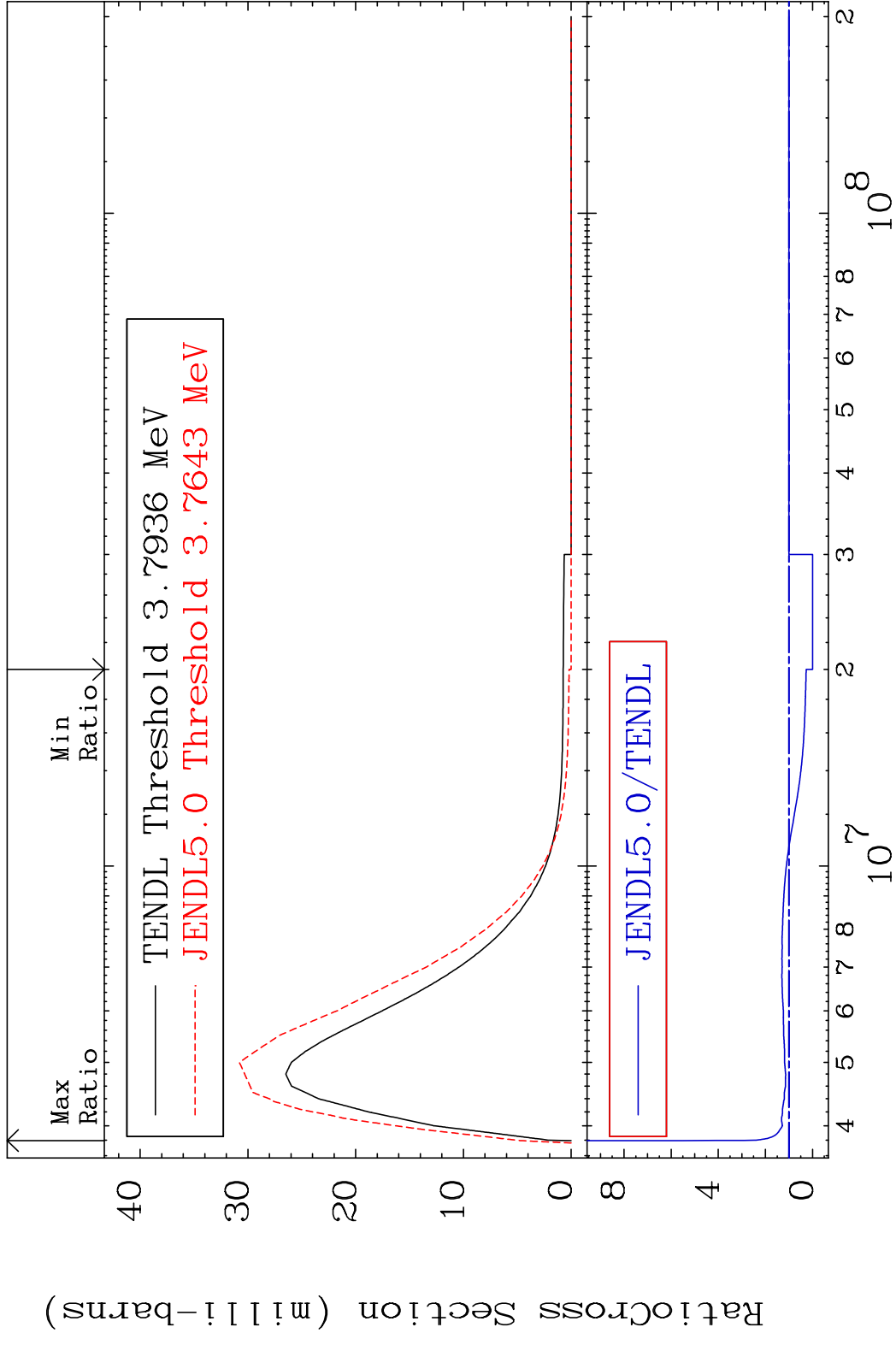


MAT 2831 MT= 67 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 1775. %

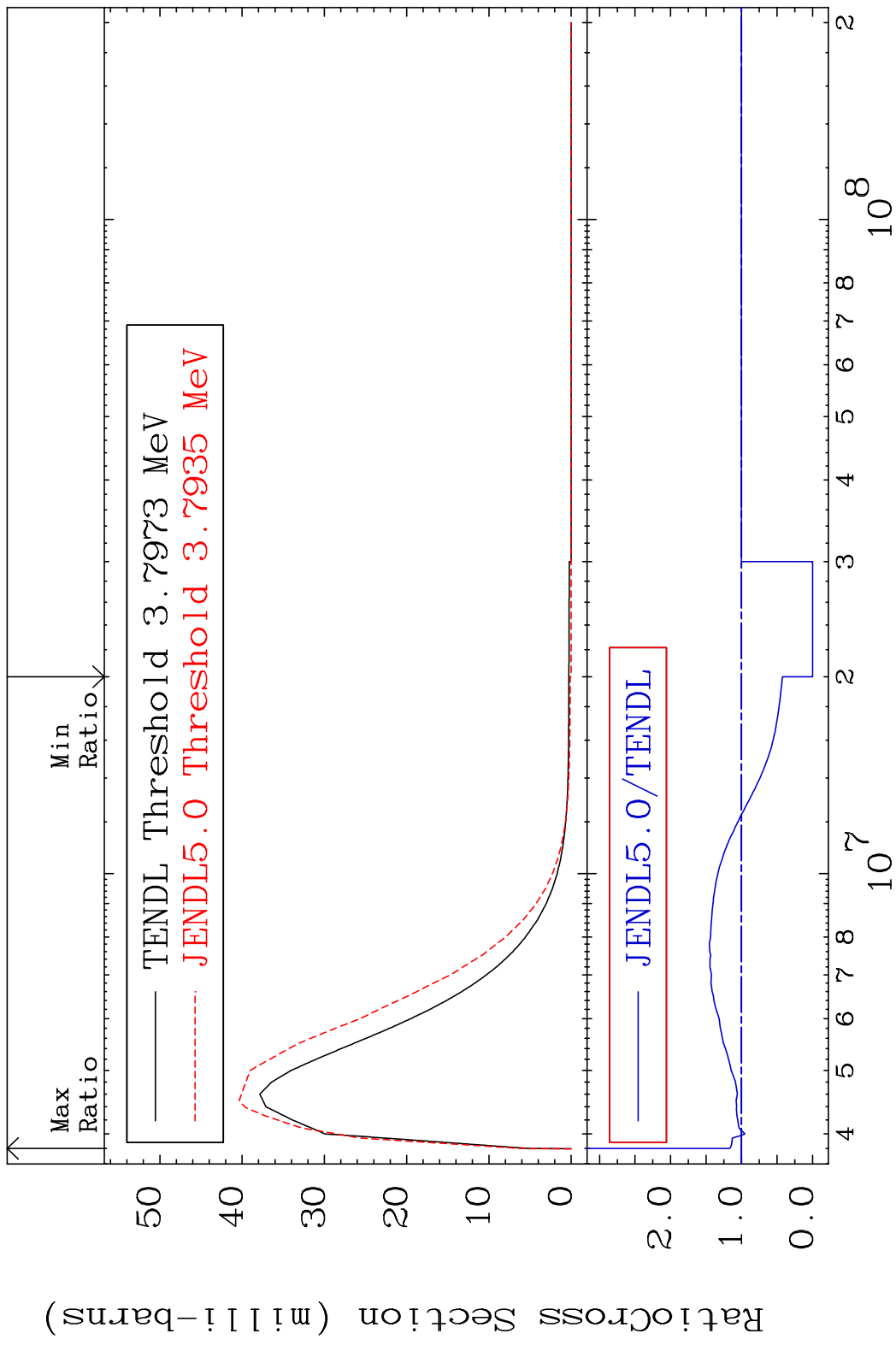


24 28-Ni-60

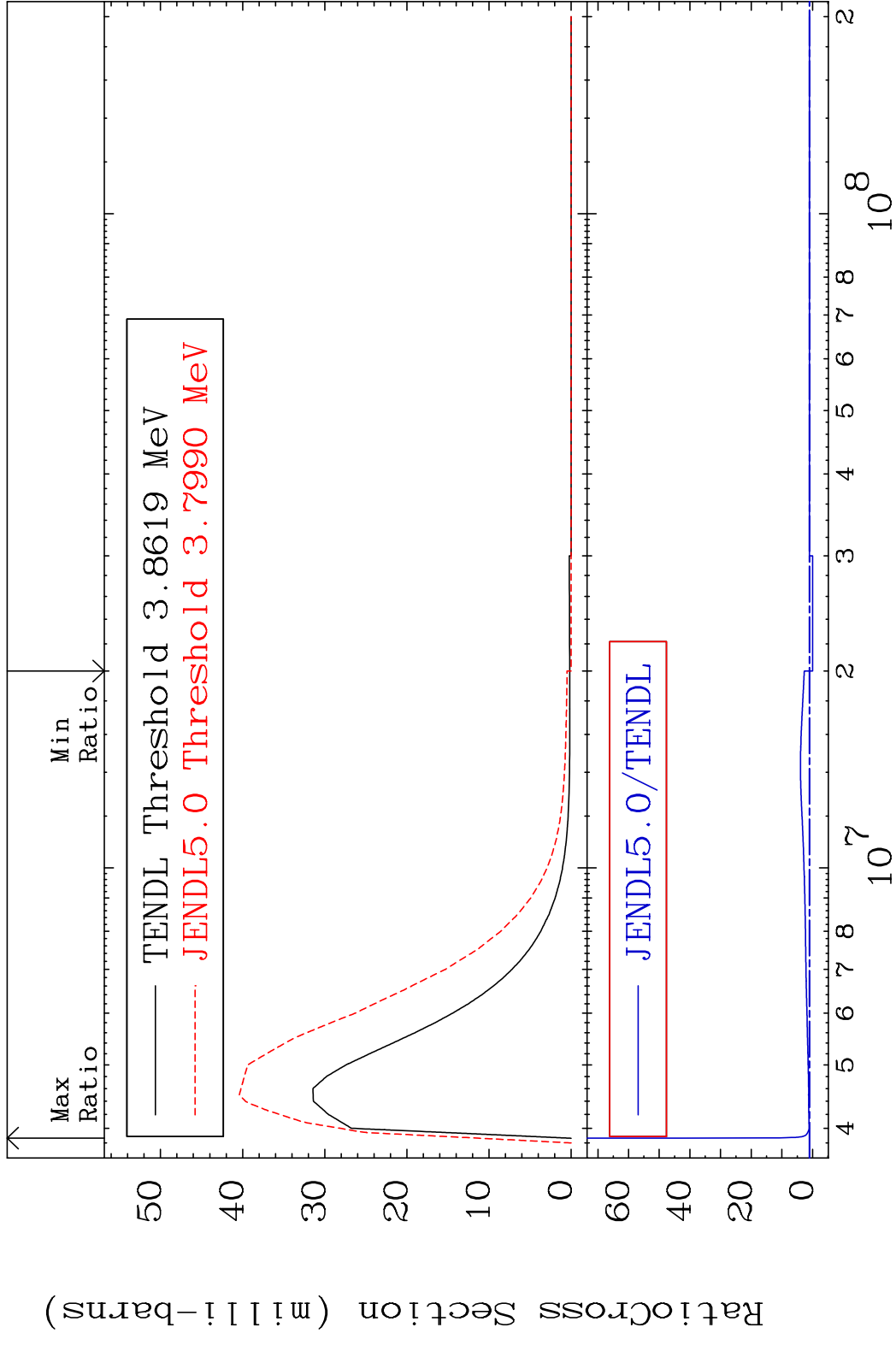
MAT 2831 MT= 68 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 452.5 %



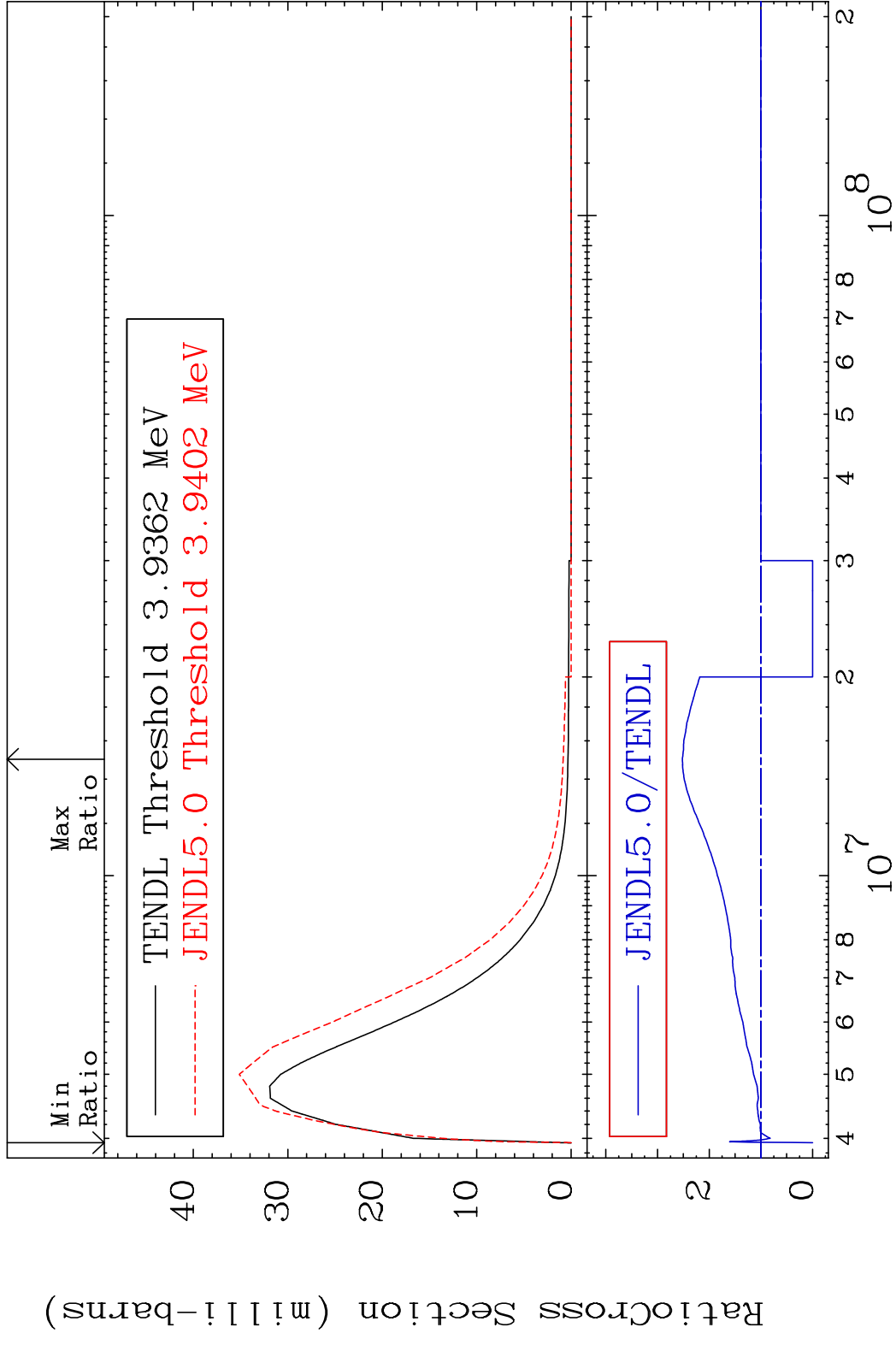
MAT 2831 MT= 69 (n, n') Level 28-Ni-60  
 Cross Section -100.0 To 83.39 %



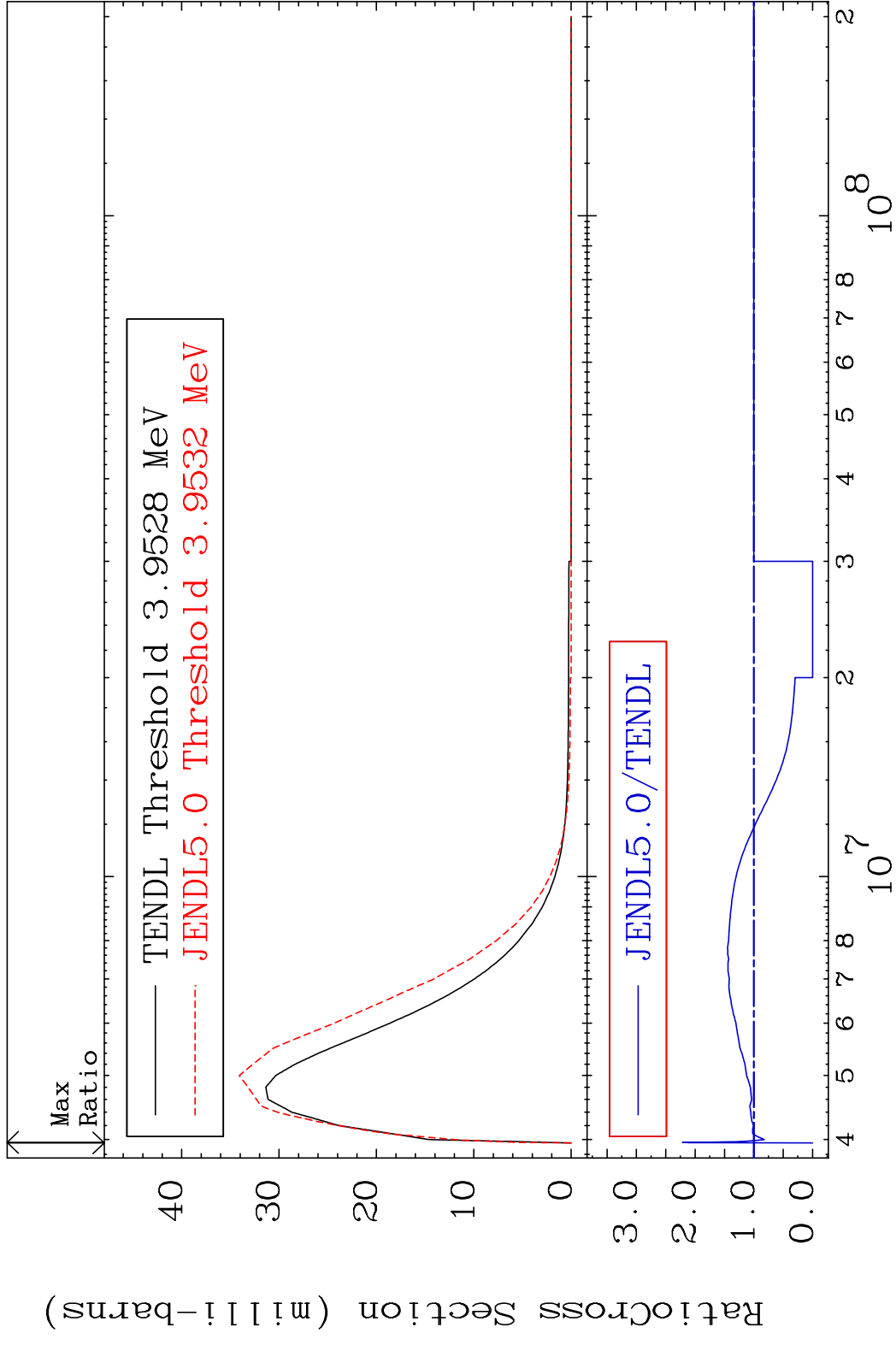
MAT 2831 MT= 70 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 4146. %



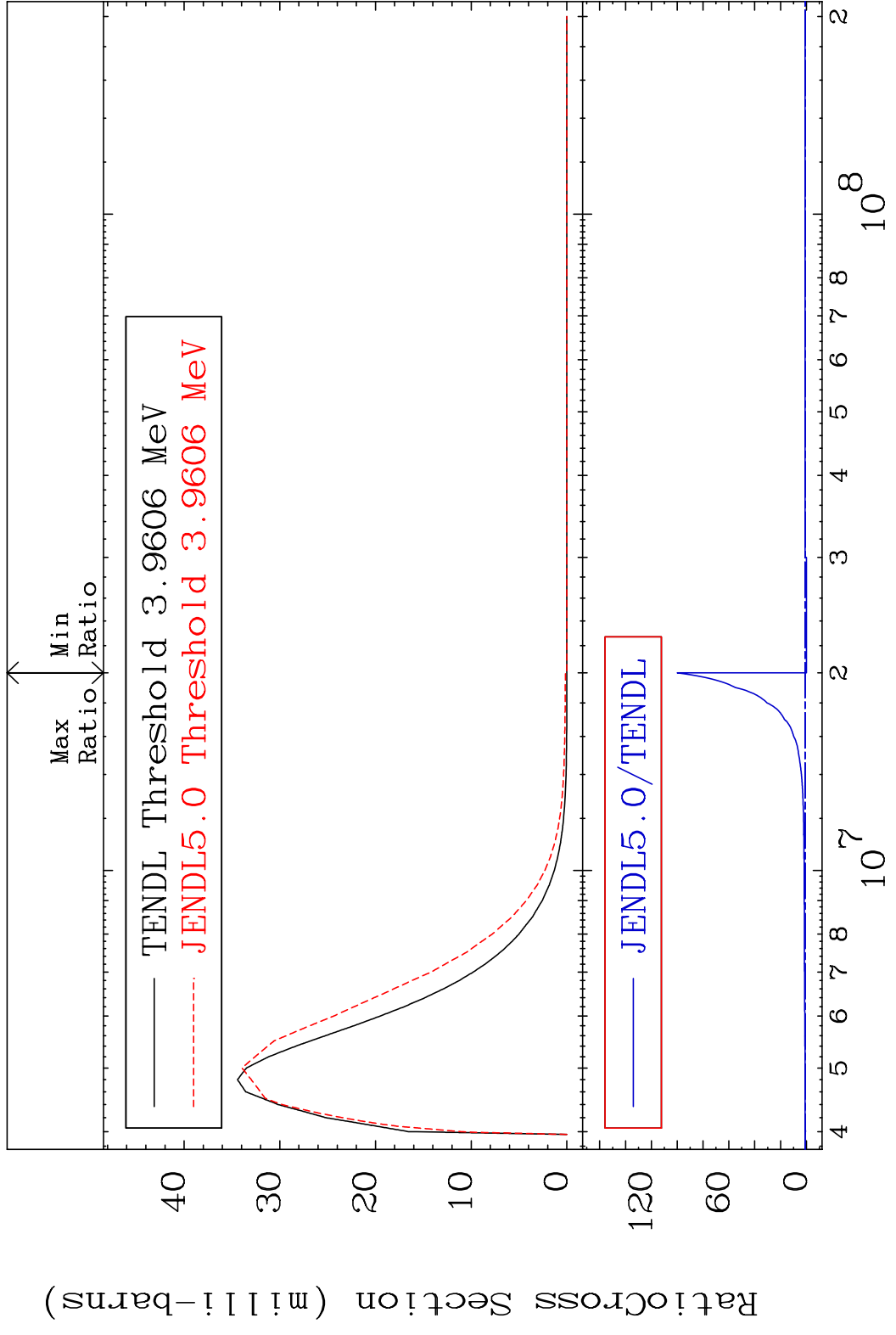
MAT 2831 MT= 71 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 151.9 %



MAT 2831 MT= 72 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 121.7 %

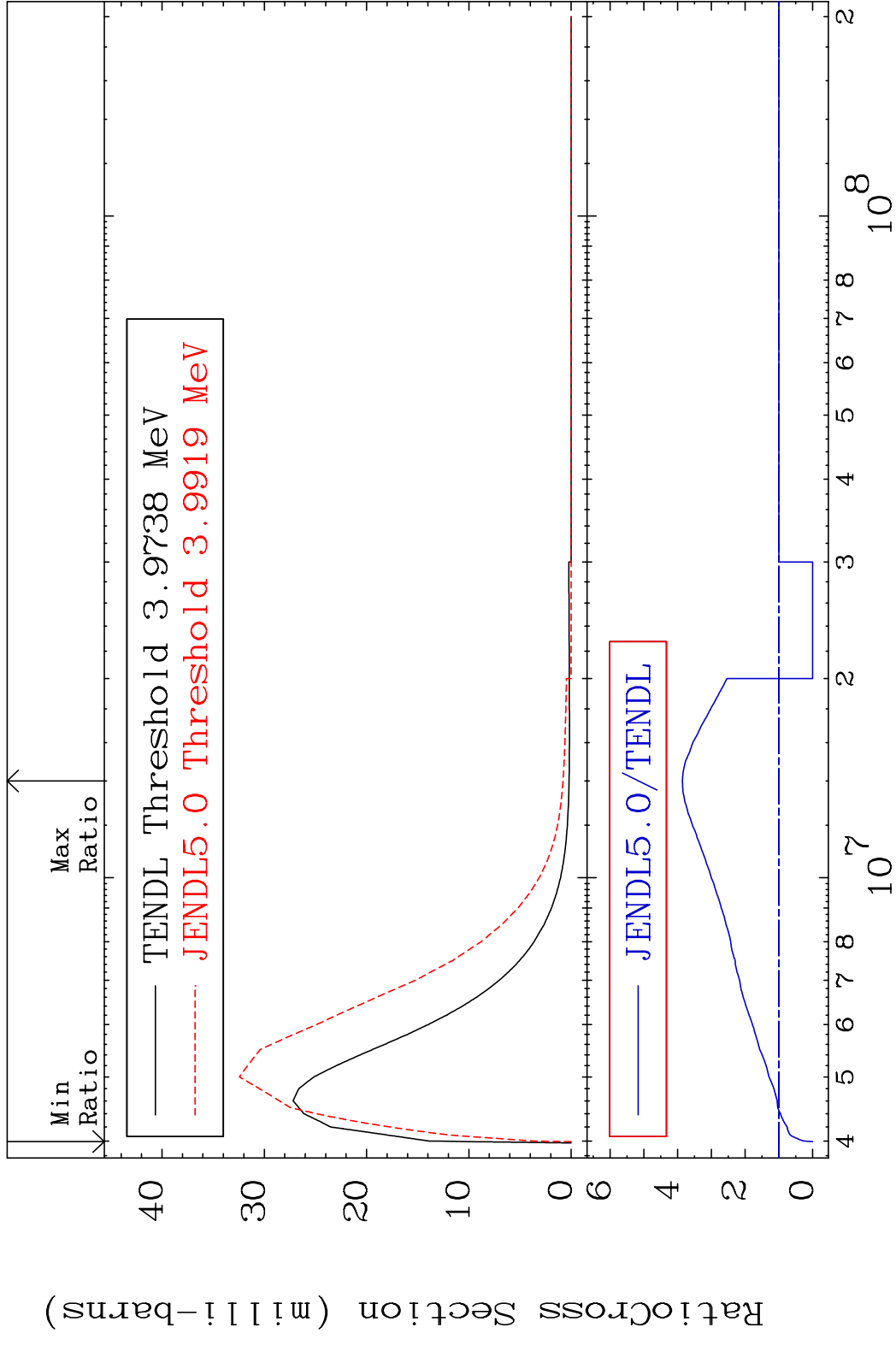


MAT 2831 MT= 73 (n, n') Level 28-Ni-60  
 Cross Section -100.0 To 9902. %



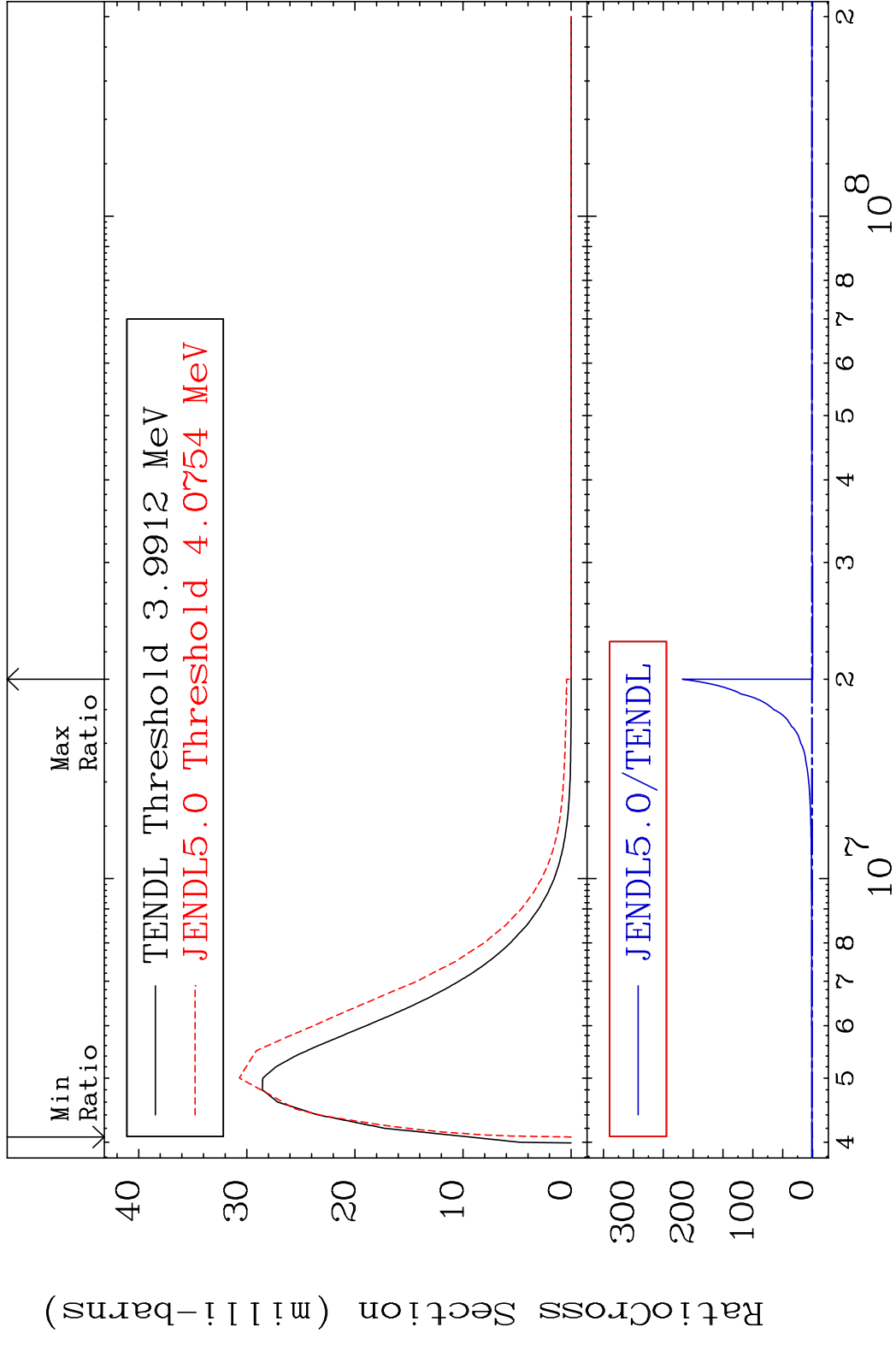
30 Incident Energy (eV) 28-Ni-60

MAT 2831 MT= 74 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 285.9 %

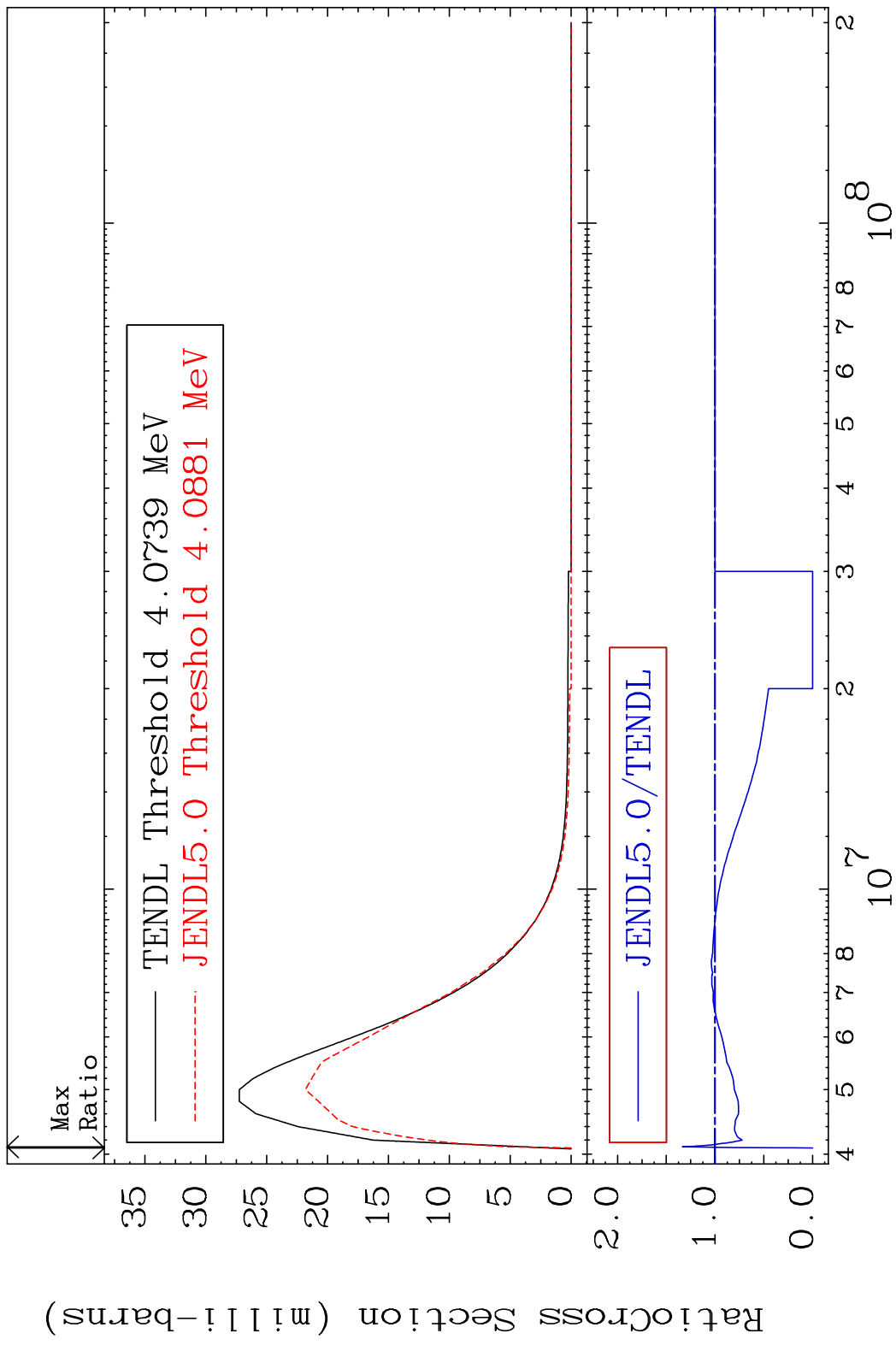




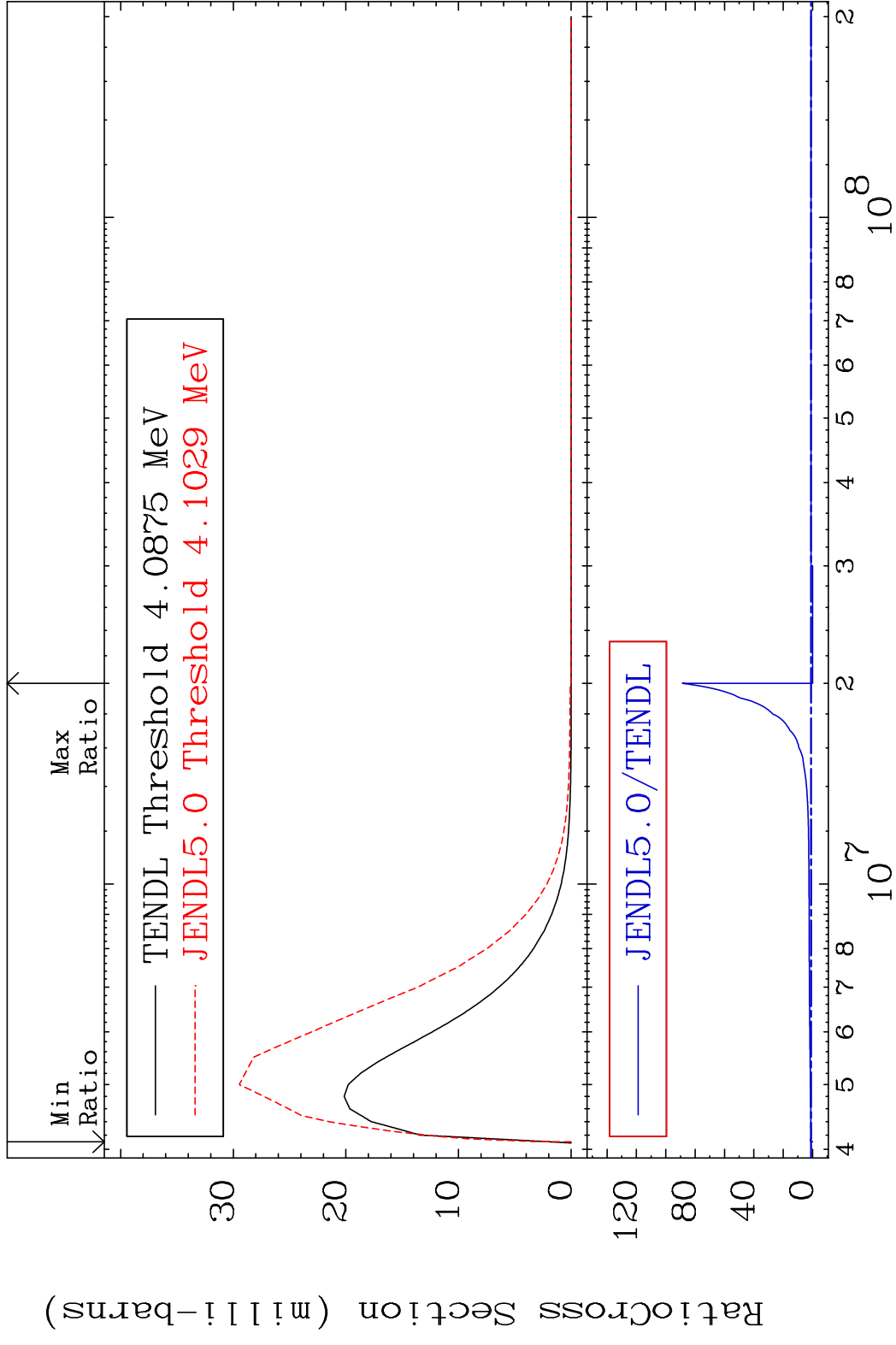
MAT 2831 MT= 75 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 9999. %



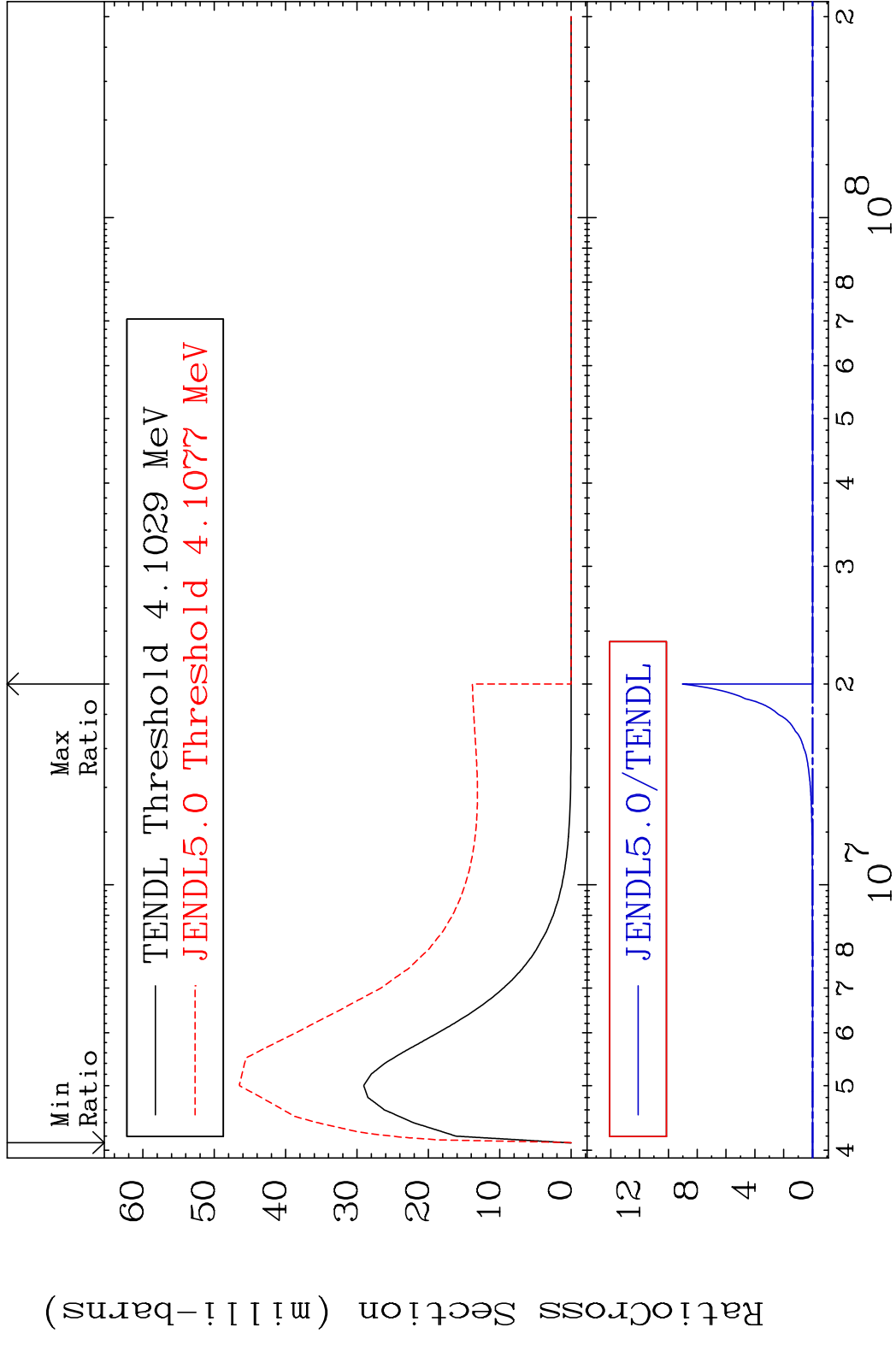
MAT 2831 MT= 76 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 33.53 %



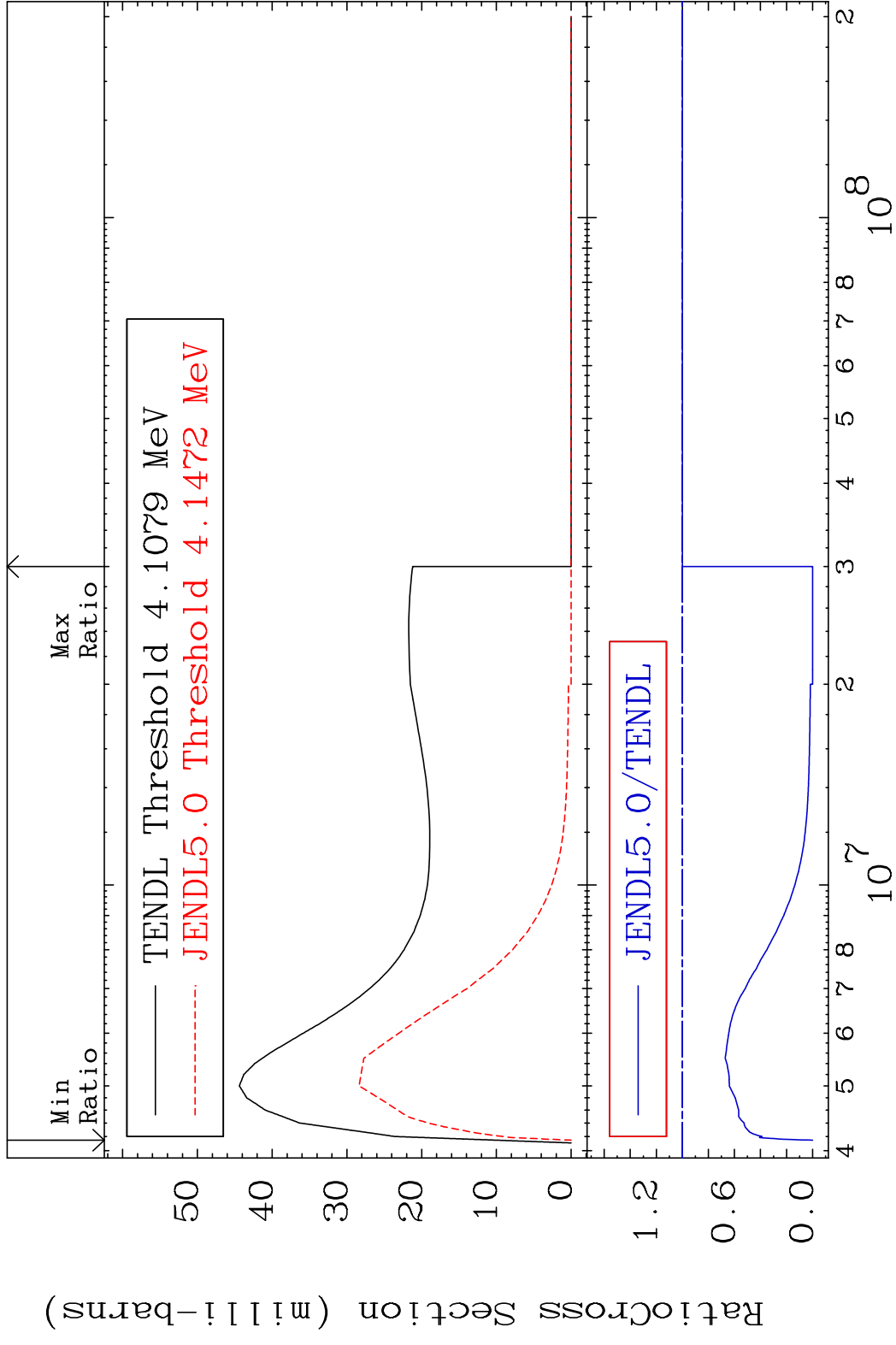
MAT 2831 MT= 77 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 8770. %



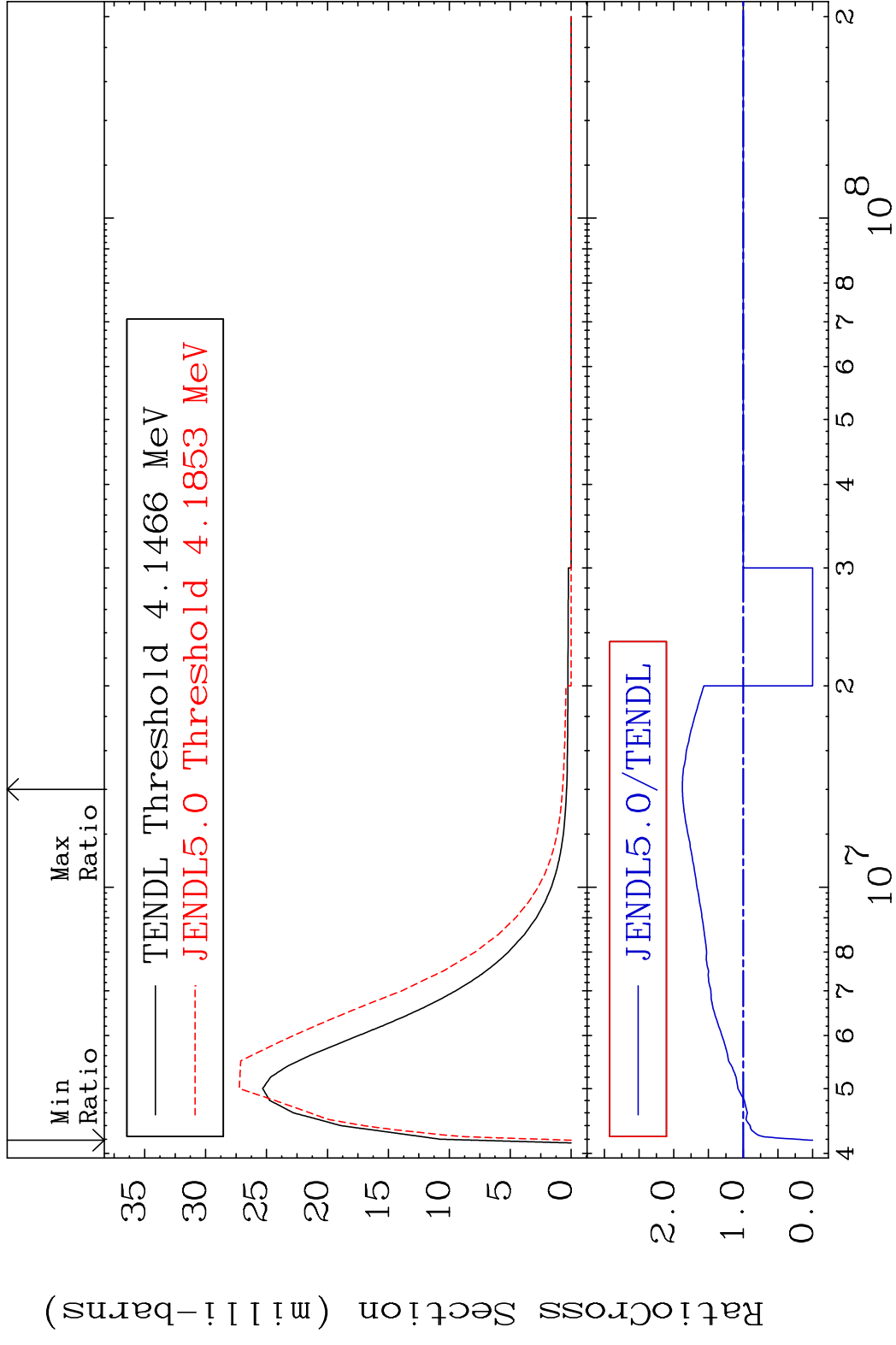
MAT 2831 MT= 78 (n,n') Level 28-Ni-60  
 Cross Section -100.0 To 9999. %



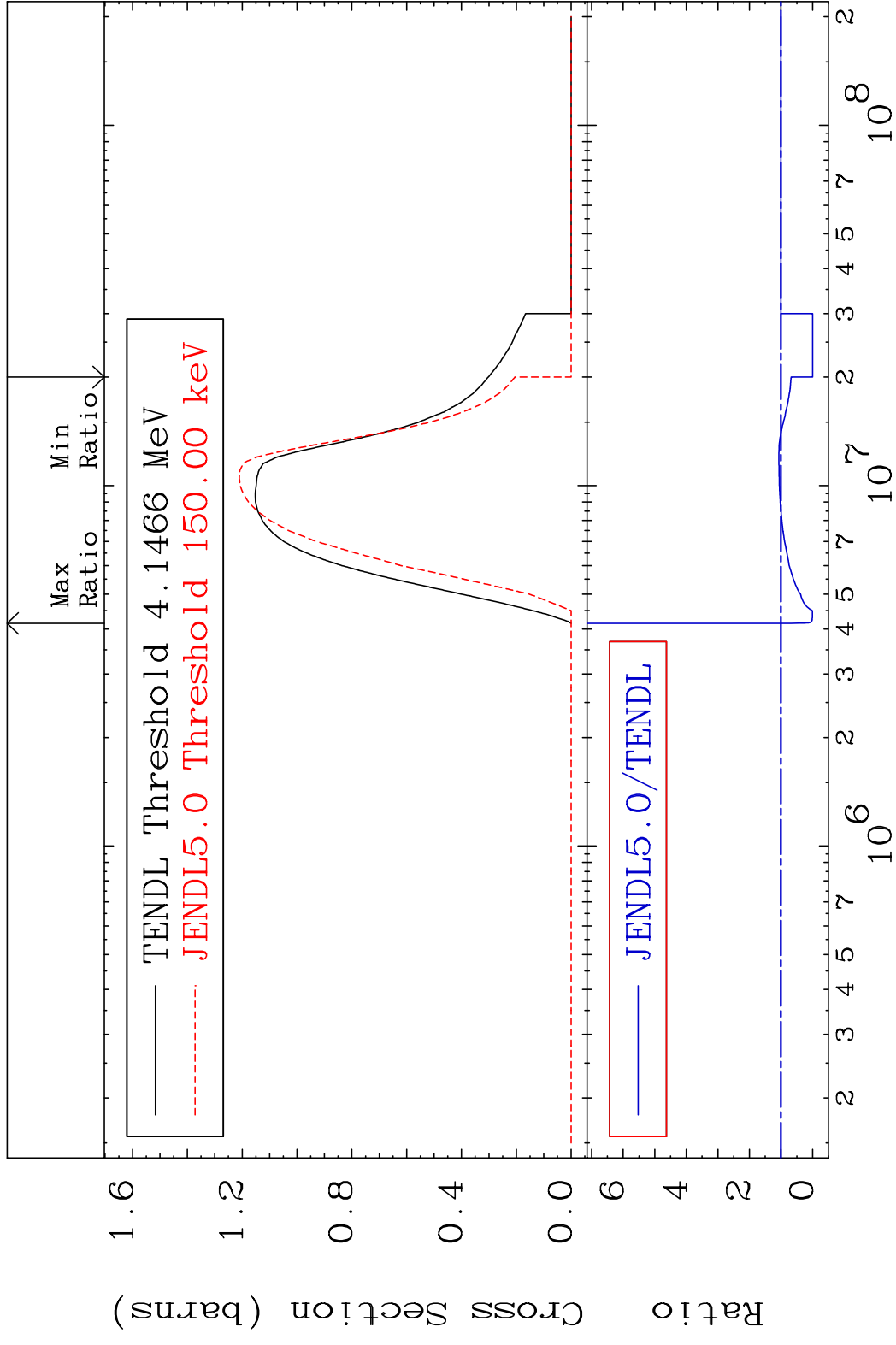
MAT 2831 MT= 79 (n, n') Level 28-Ni-60  
 Cross Section -100.0 To 0.000 %



MAT 2831 MT= 80 (n, n') Level 28-Ni-60  
 Cross Section -100.0 To 87.67 %



MAT 2831 (n,n') Continuum 28-Ni-60  
 Cross Section -100.0 To 312.5 %

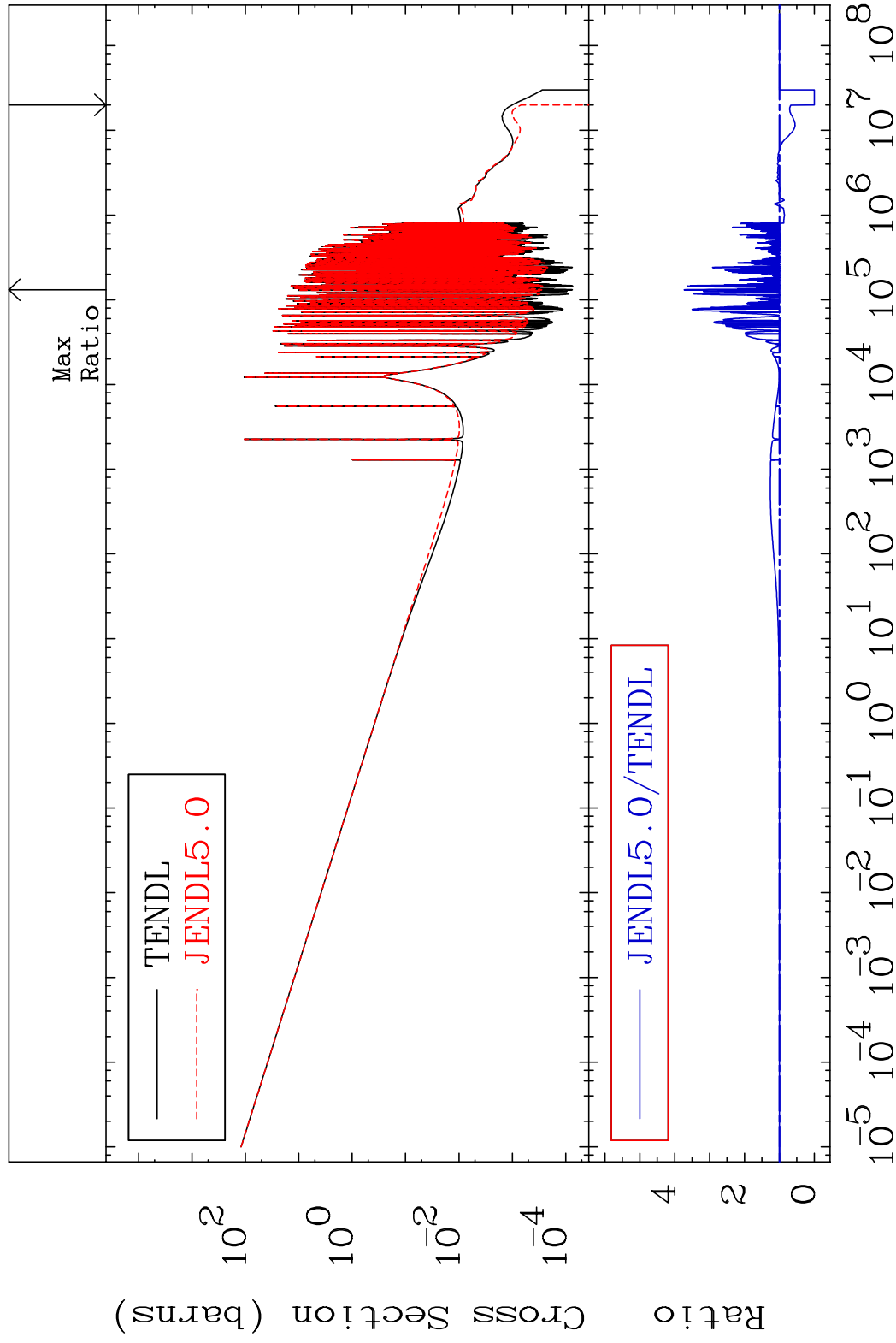


MAT 2831

(n,  $\gamma$ )

28-Ni-60

Cross Section -100.0 To 273.1 %

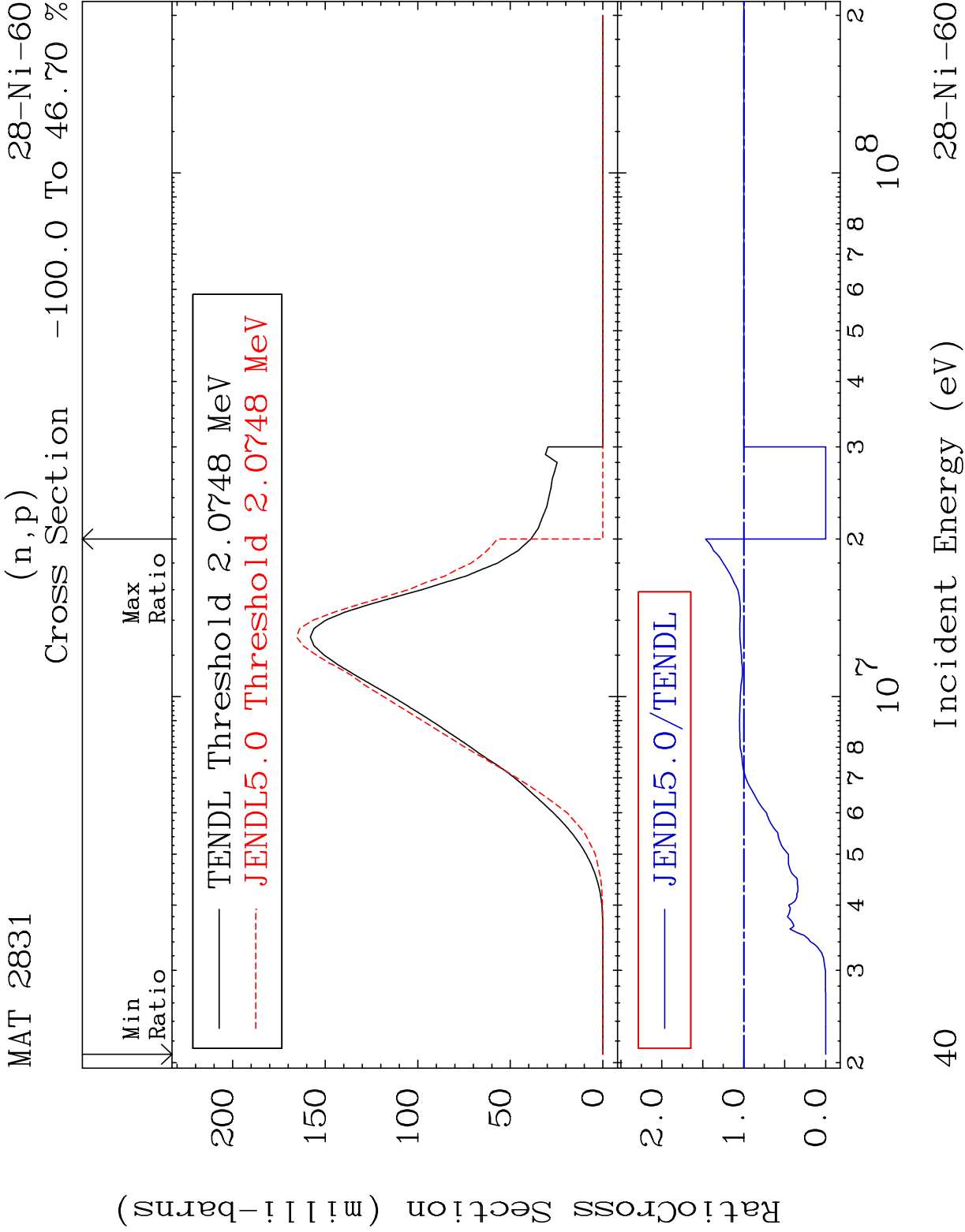


39

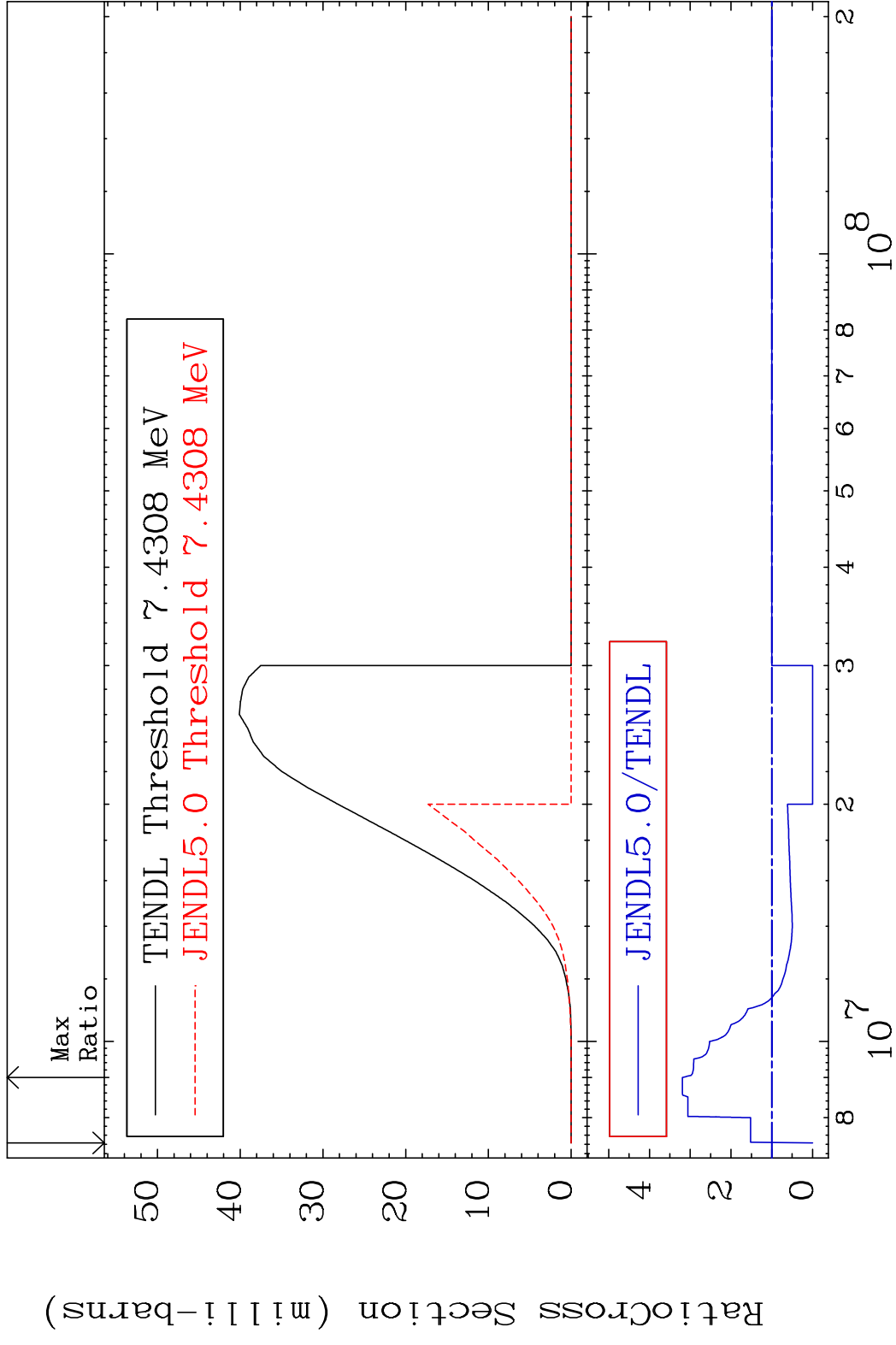
Incident Energy (eV)

28-Ni-60



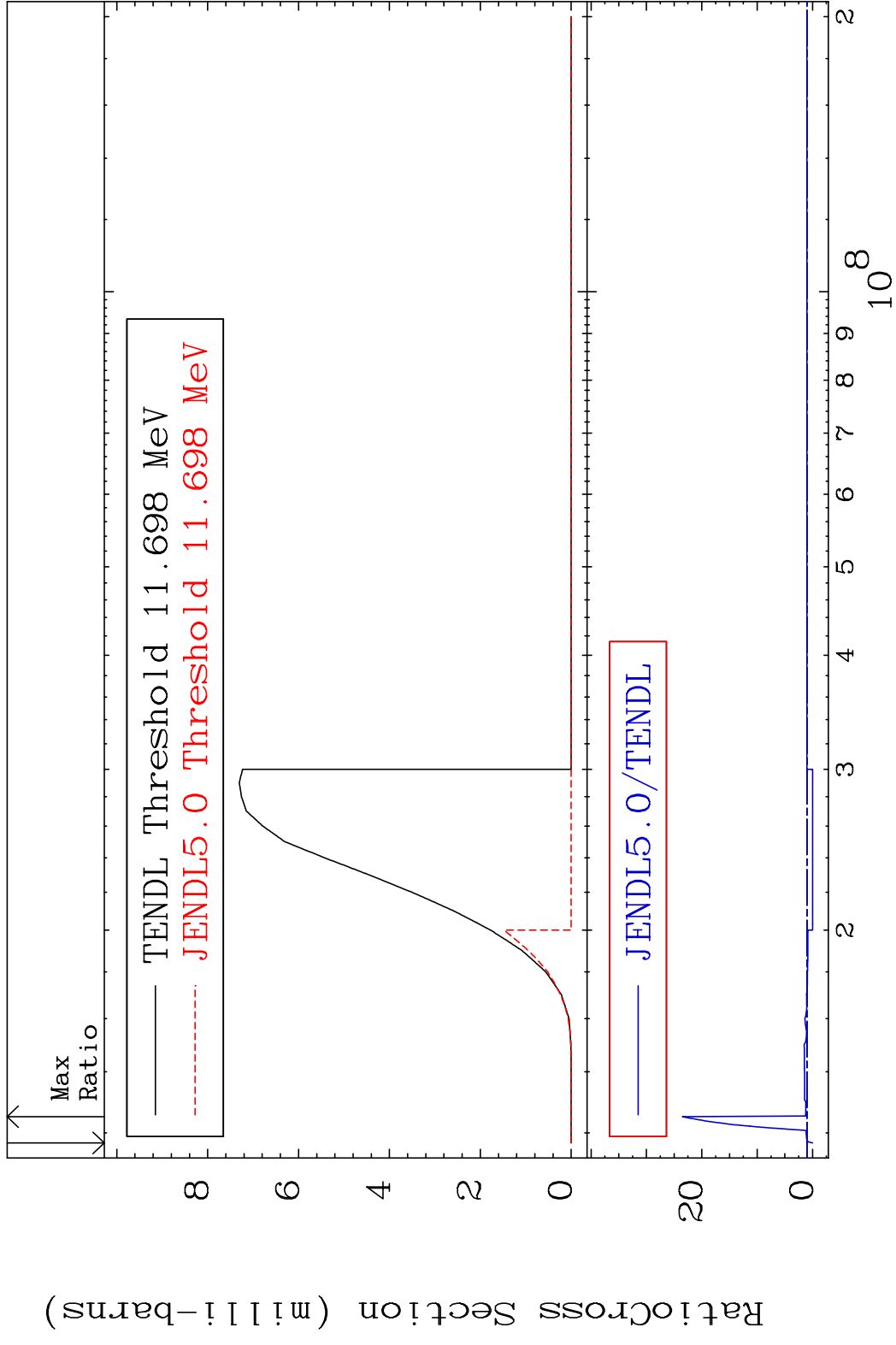


MAT 2831 (n,d) 28-Ni-60  
 Cross Section -100.0 To 219.3 %

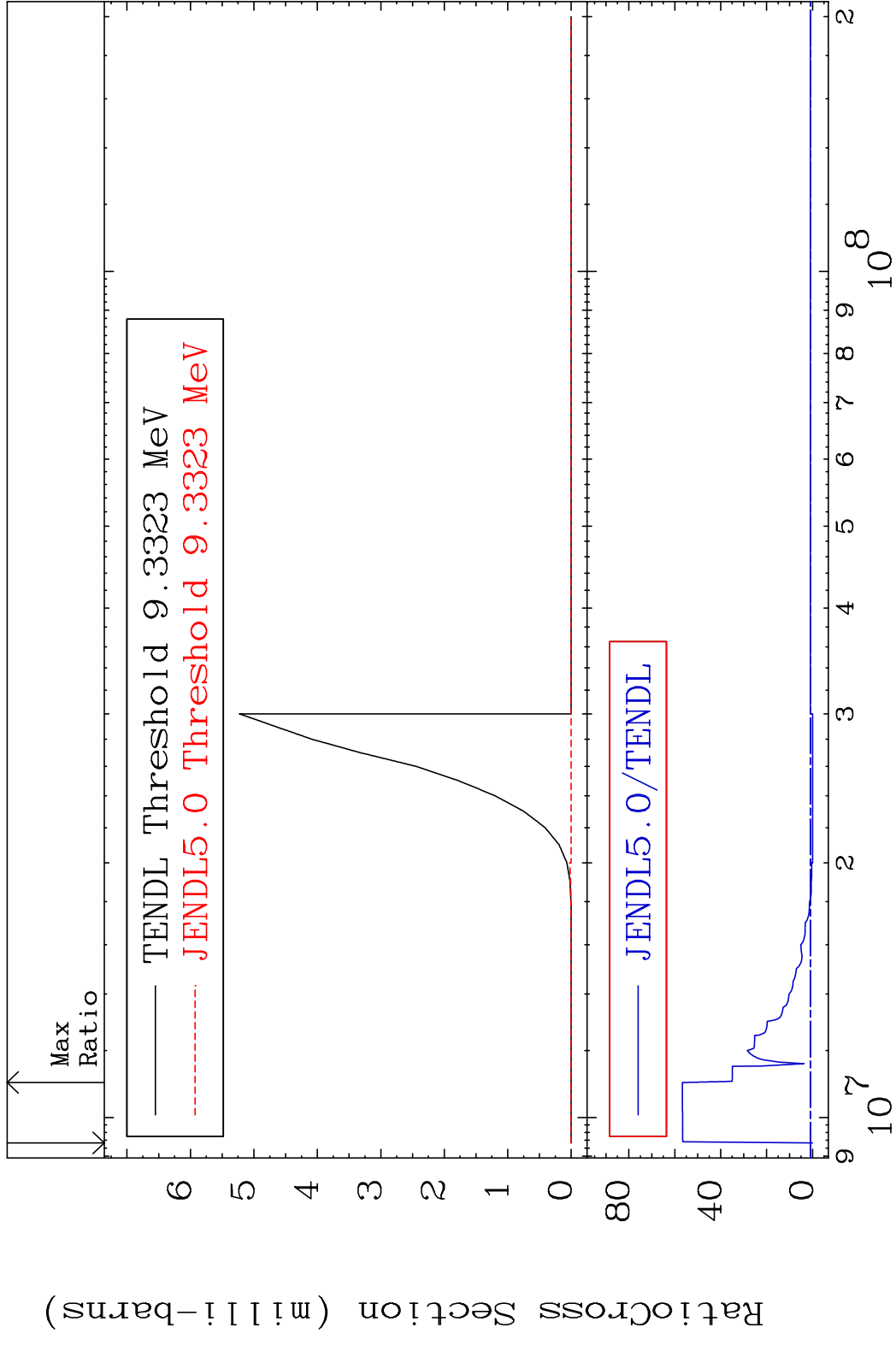


41 28-Ni-60

MAT 2831 (n, t) 28-Ni-60  
 Cross Section -100.0 To 2251. %



MAT 2831 (n, He-3) 28-Ni-60  
 Cross Section -100.0 To 5572. %



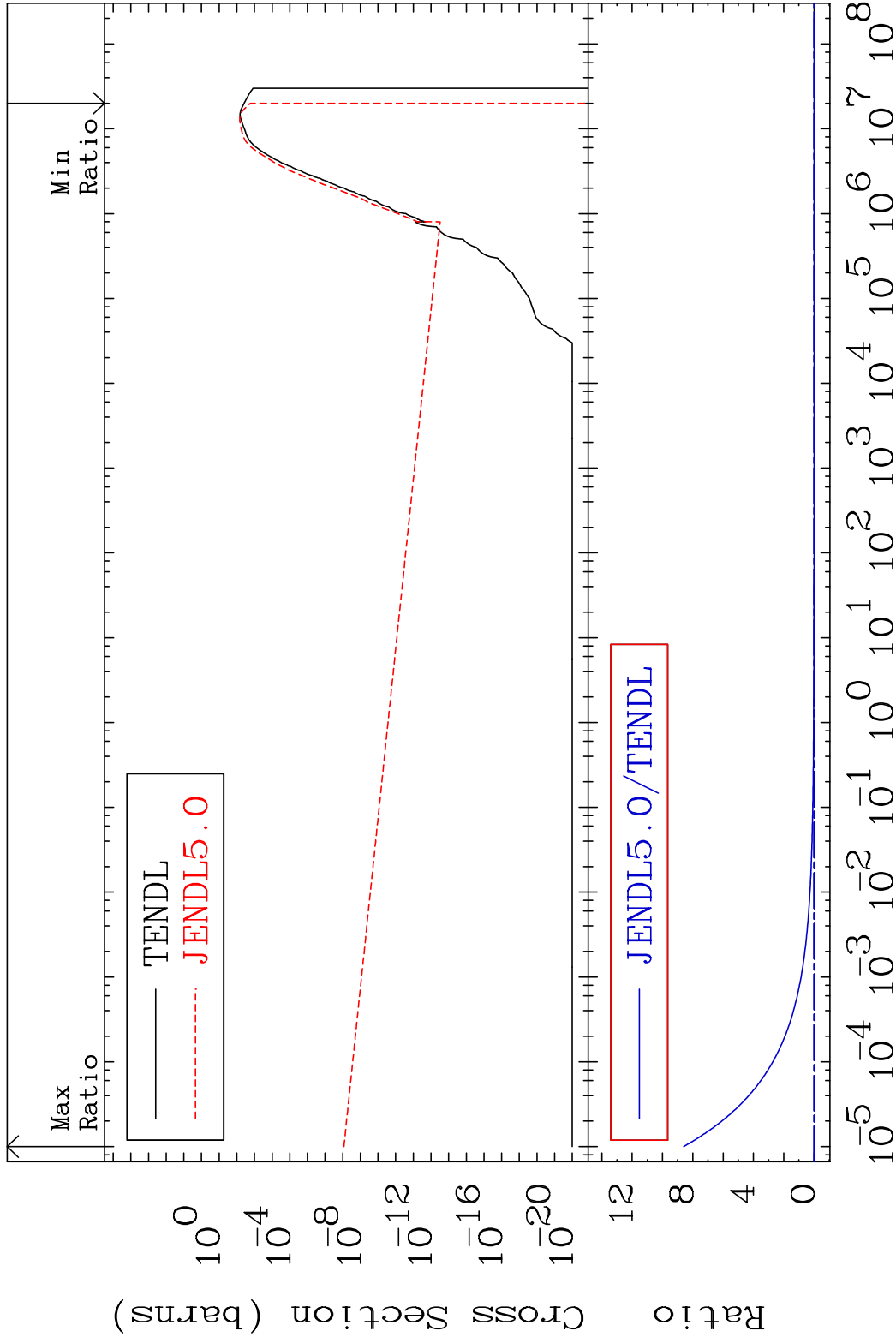
43 Incident Energy (eV) 28-Ni-60

MAT 2831

(n,  $\alpha$ )

28-Ni-60

Cross Section -100.0 To 9999. %

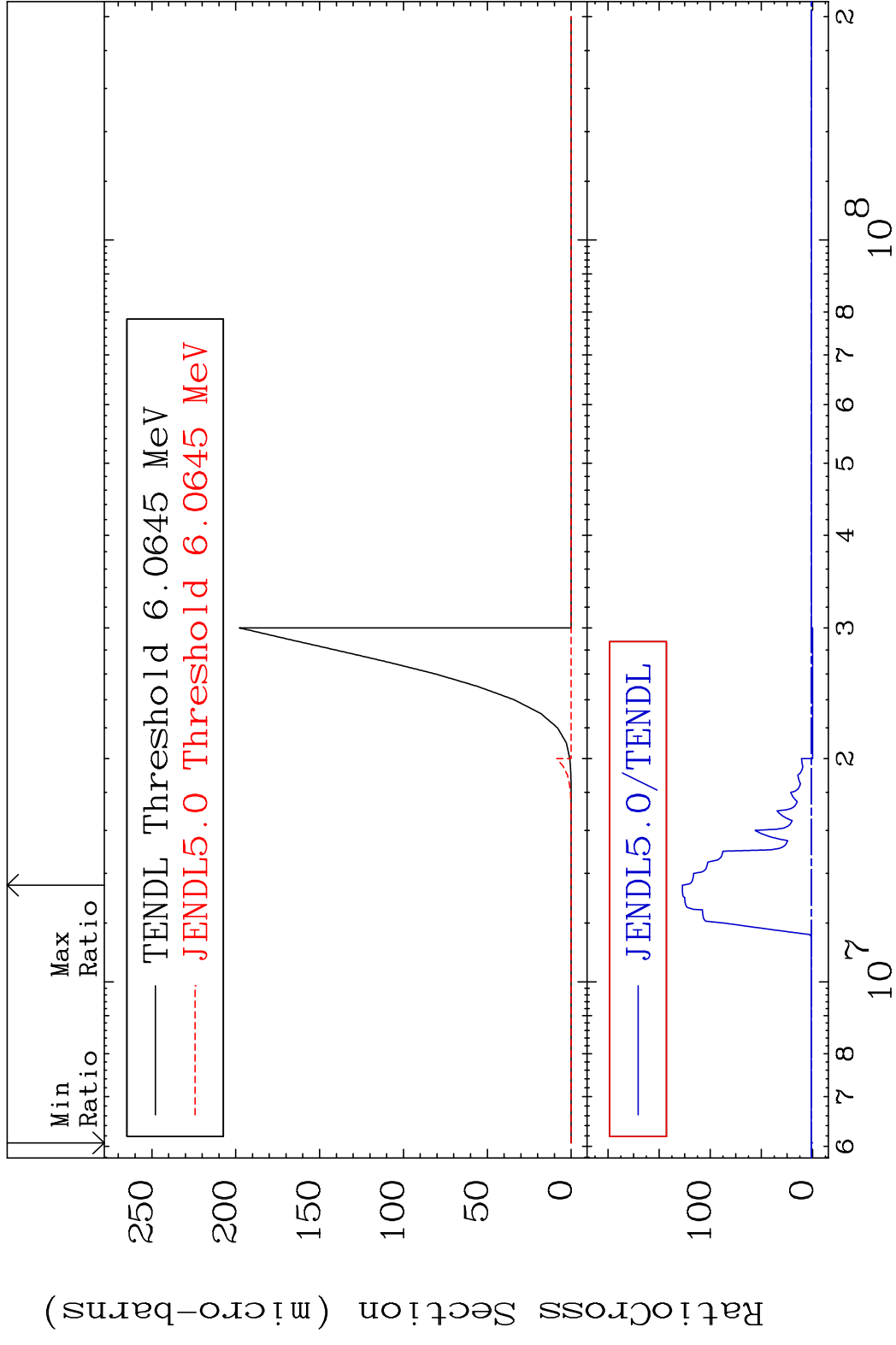


44

Incident Energy (eV)

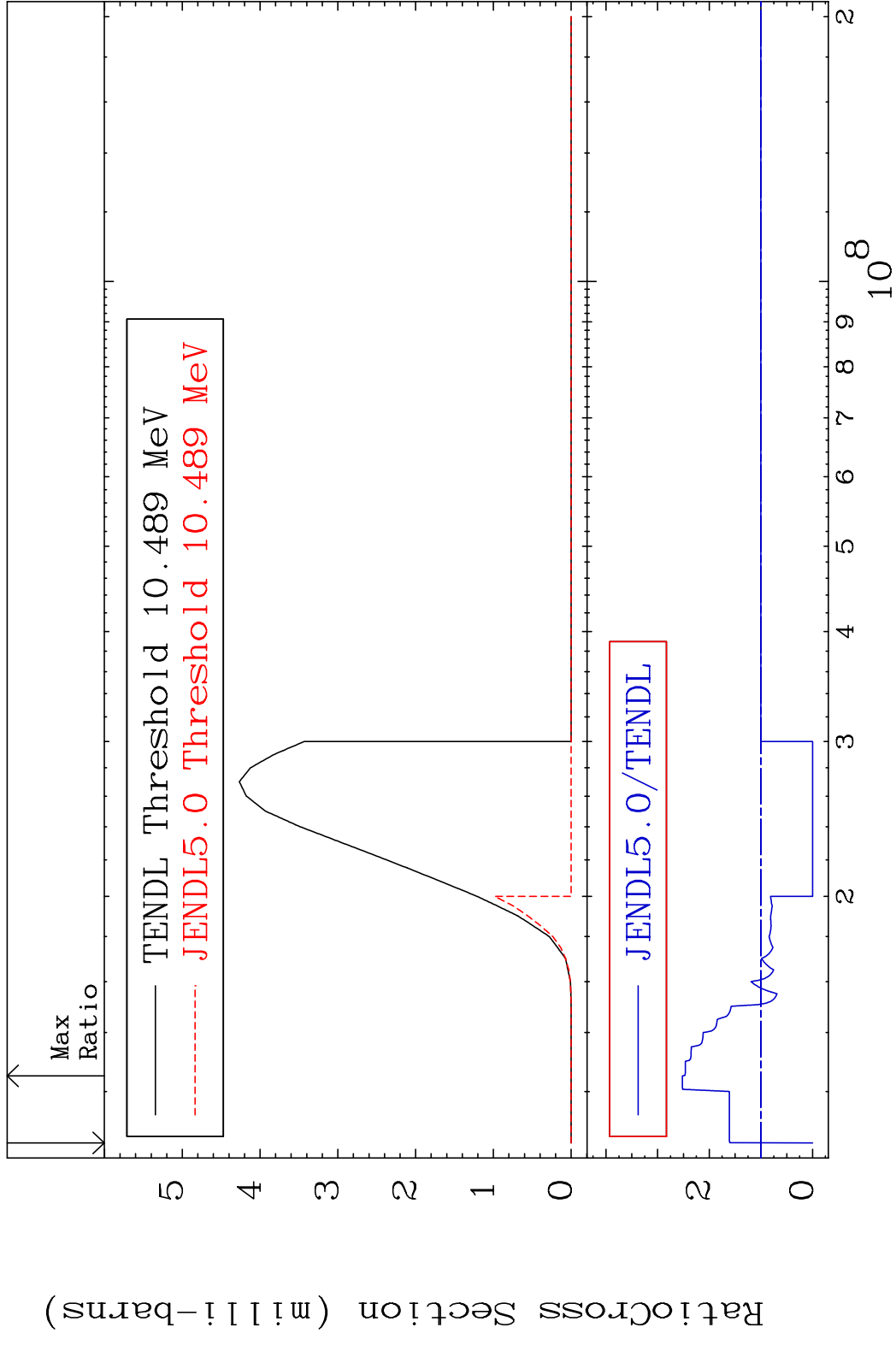
28-Ni-60

MAT 2831 (n,2α) 28-Ni-60  
 Cross Section -100.0 To 9999. %

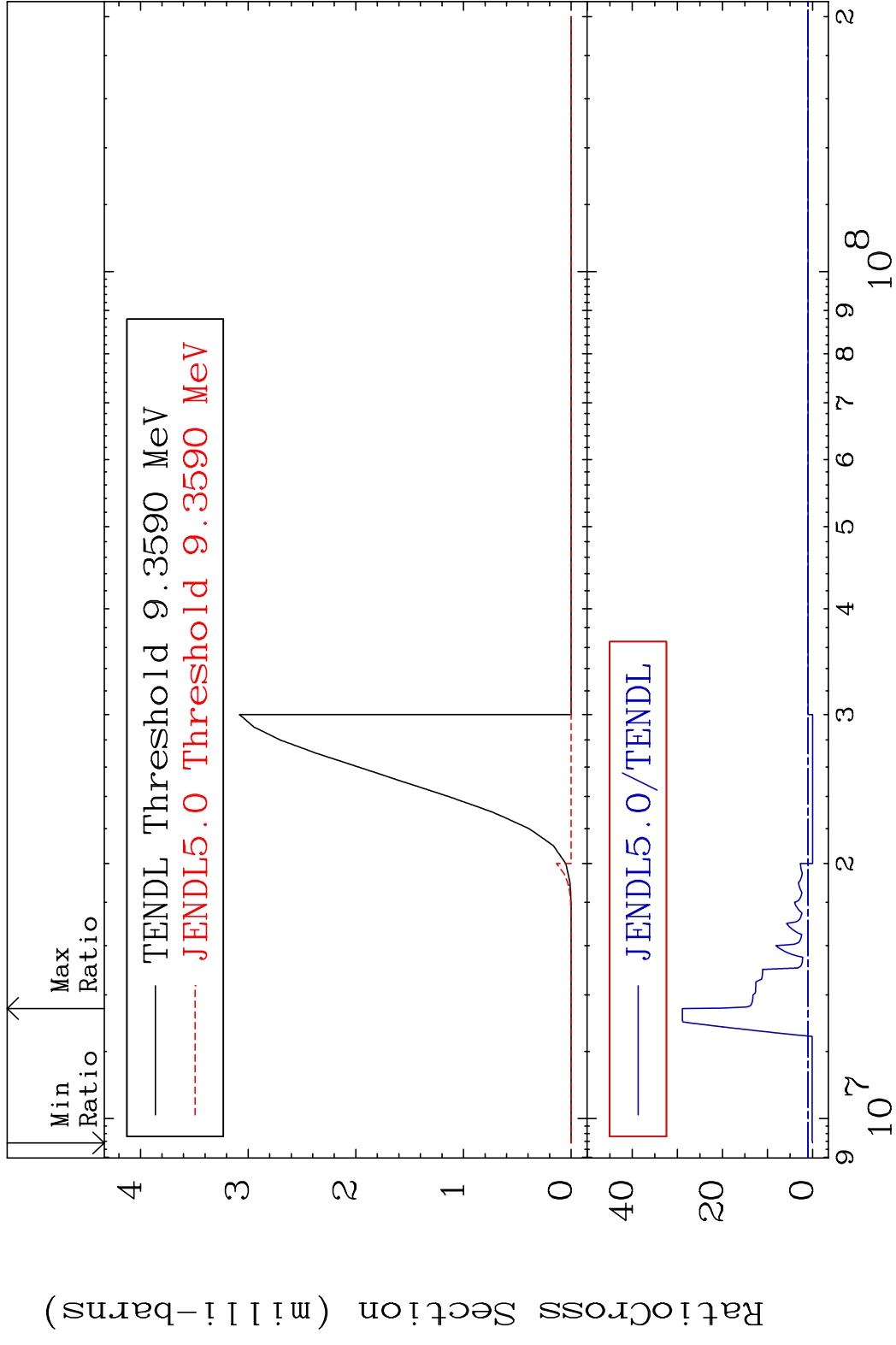


45 28-Ni-60

MAT 2831 (n,2p) 28-Ni-60  
 Cross Section -100.0 To 152.1 %



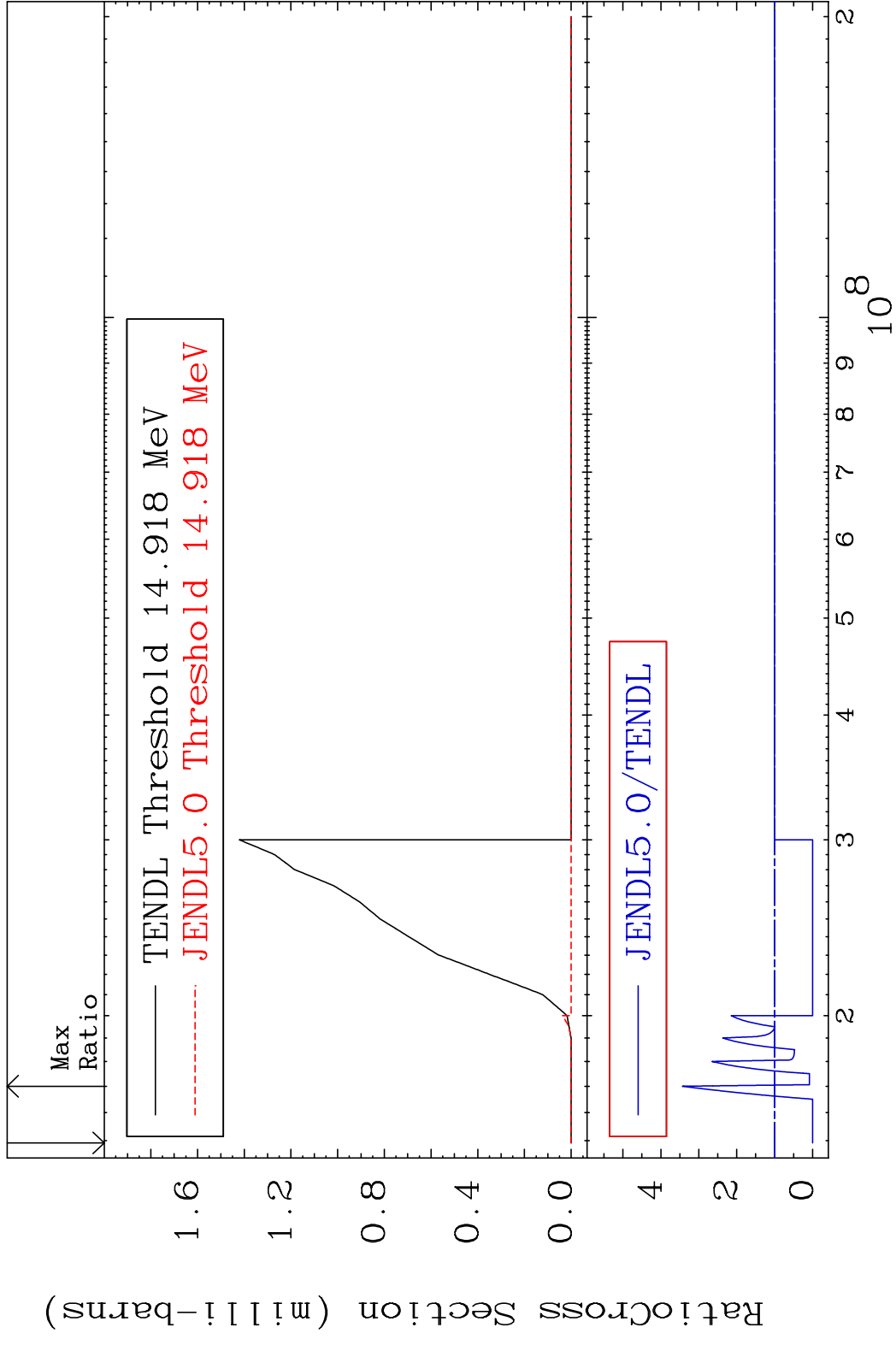
MAT 2831 (n,p)  $\alpha$  28-Ni-60  
 Cross Section -100.0 To 2789. %



47 28-Ni-60

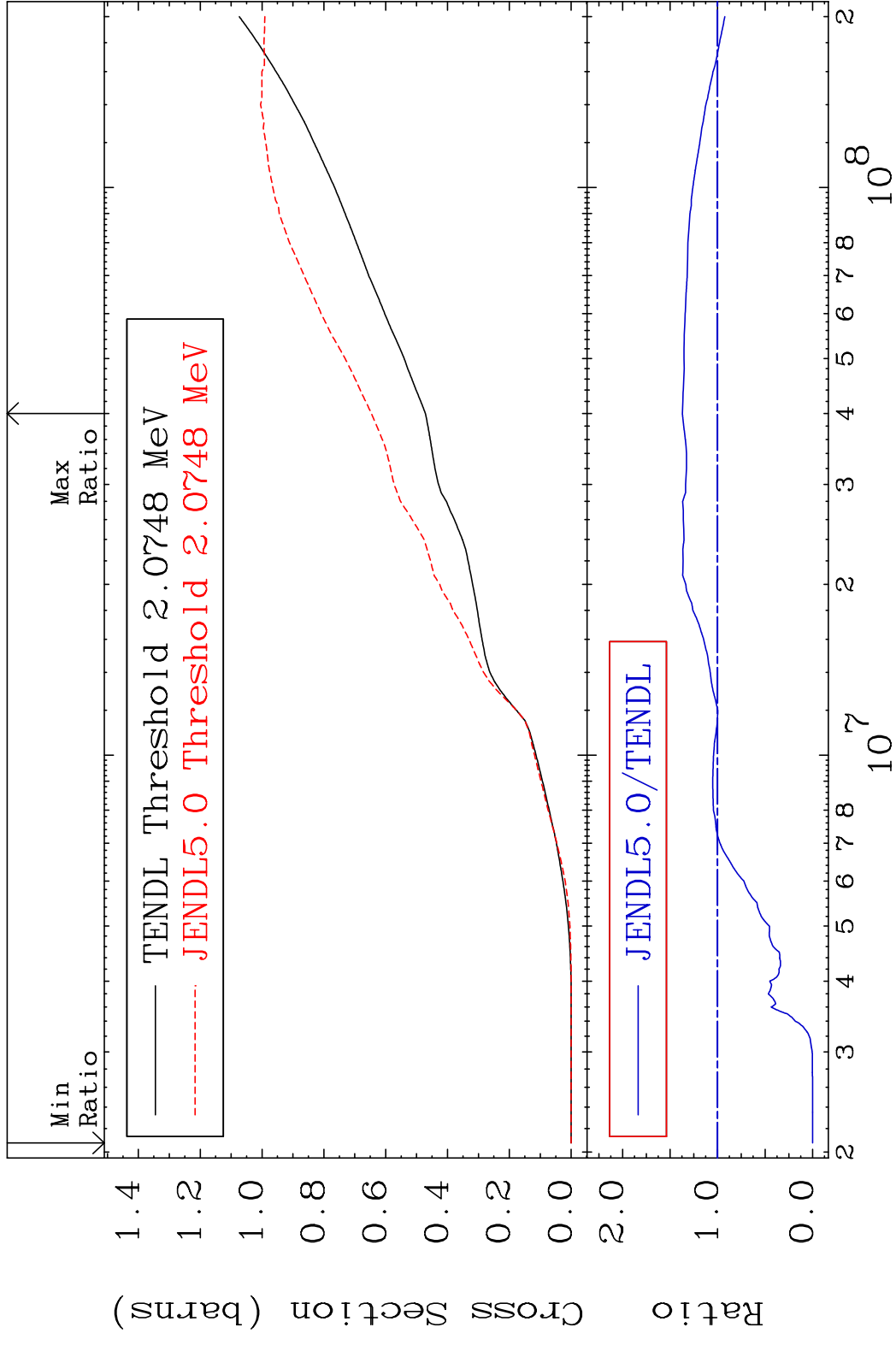


MAT 2831 (n,p) d 28-Ni-60  
 Cross Section -100.0 To 243.3 %

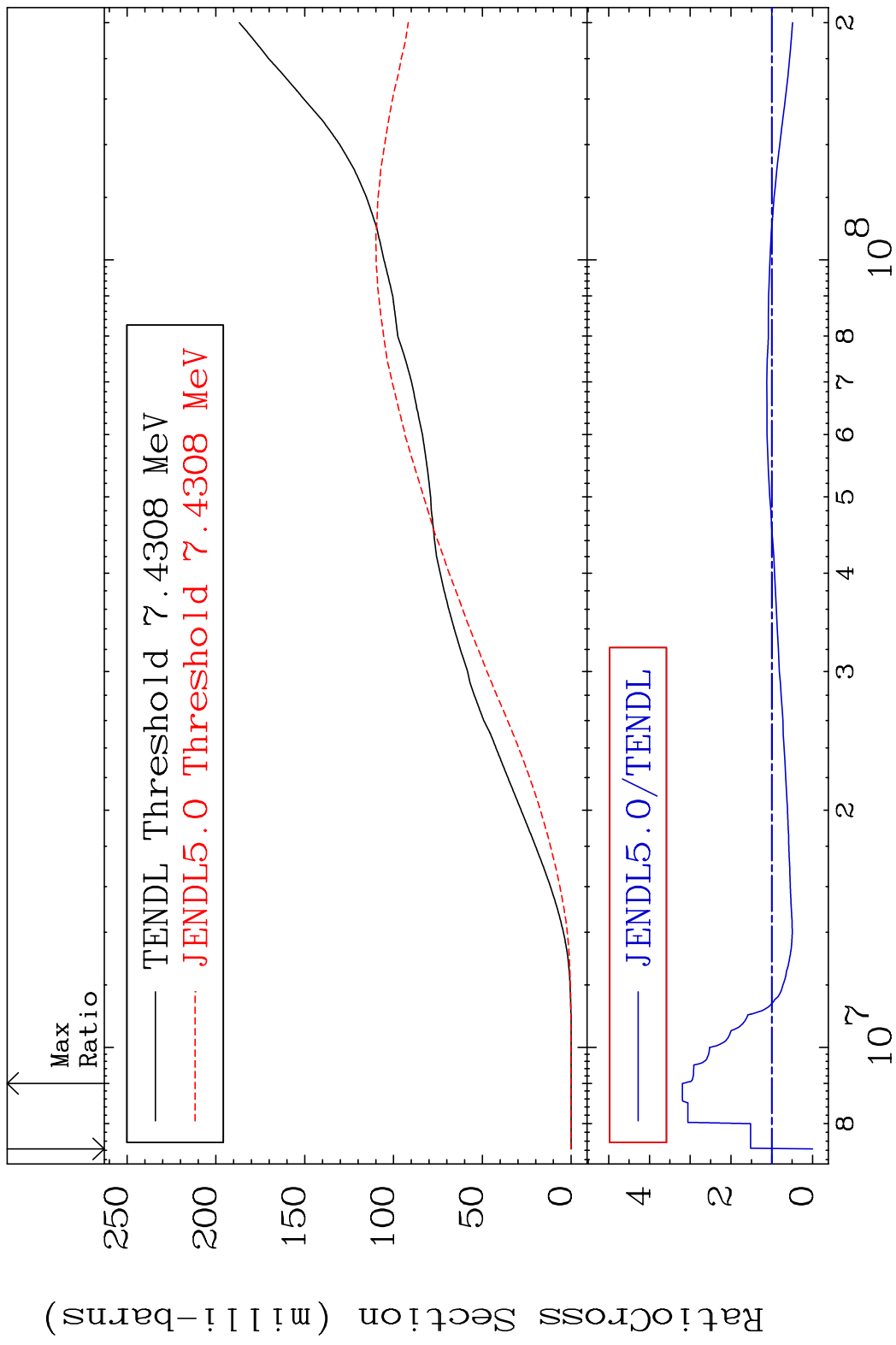


48 Incident Energy (eV) 28-Ni-60

MAT 2831 Hydrogen Production 28-Ni-60  
 Cross Section -100.0 To 37.08 %



MAT 2831 Deuterium Production 28-Ni-60  
 Cross Section -100.0 To 219.3 %

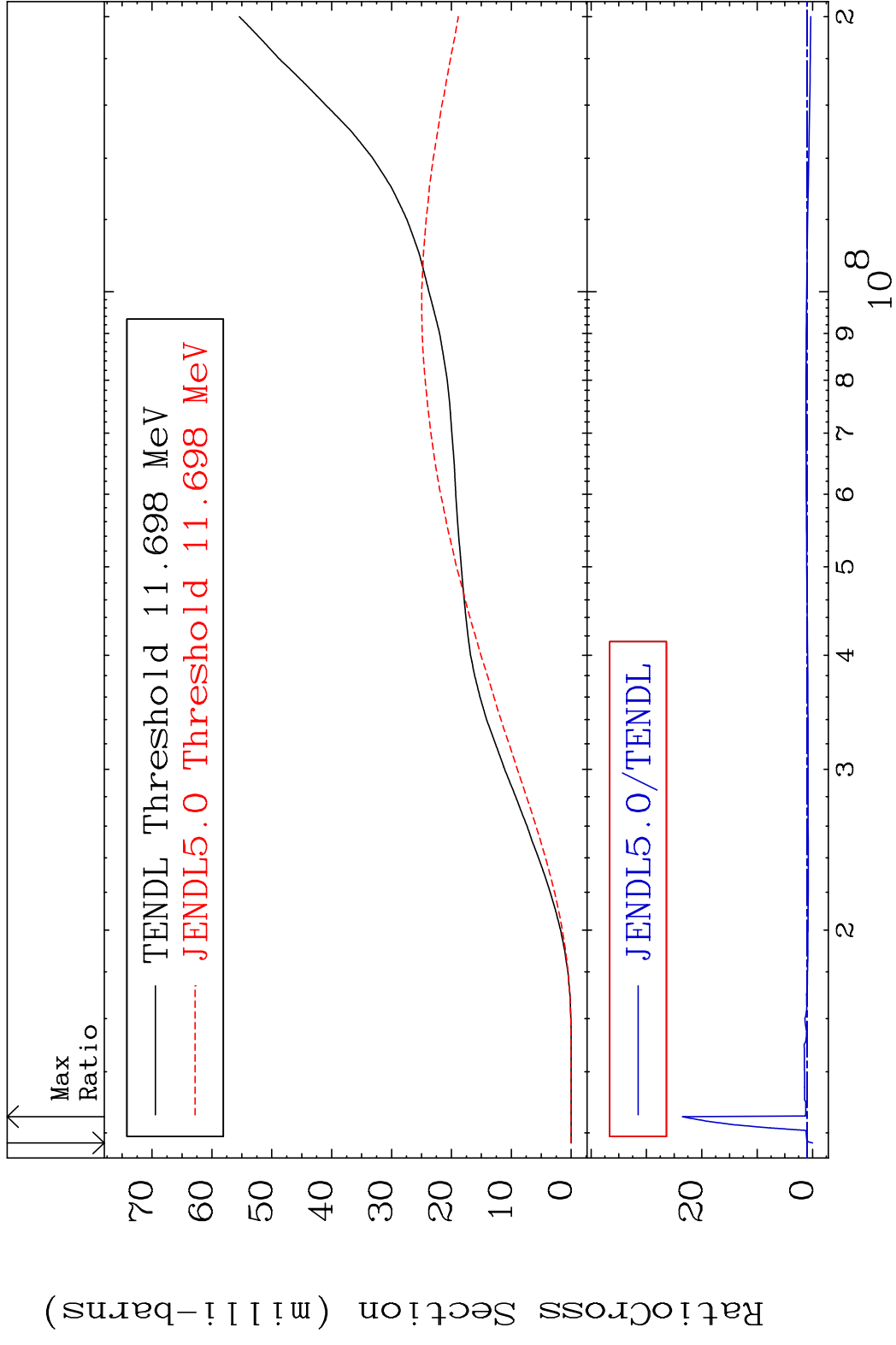


50

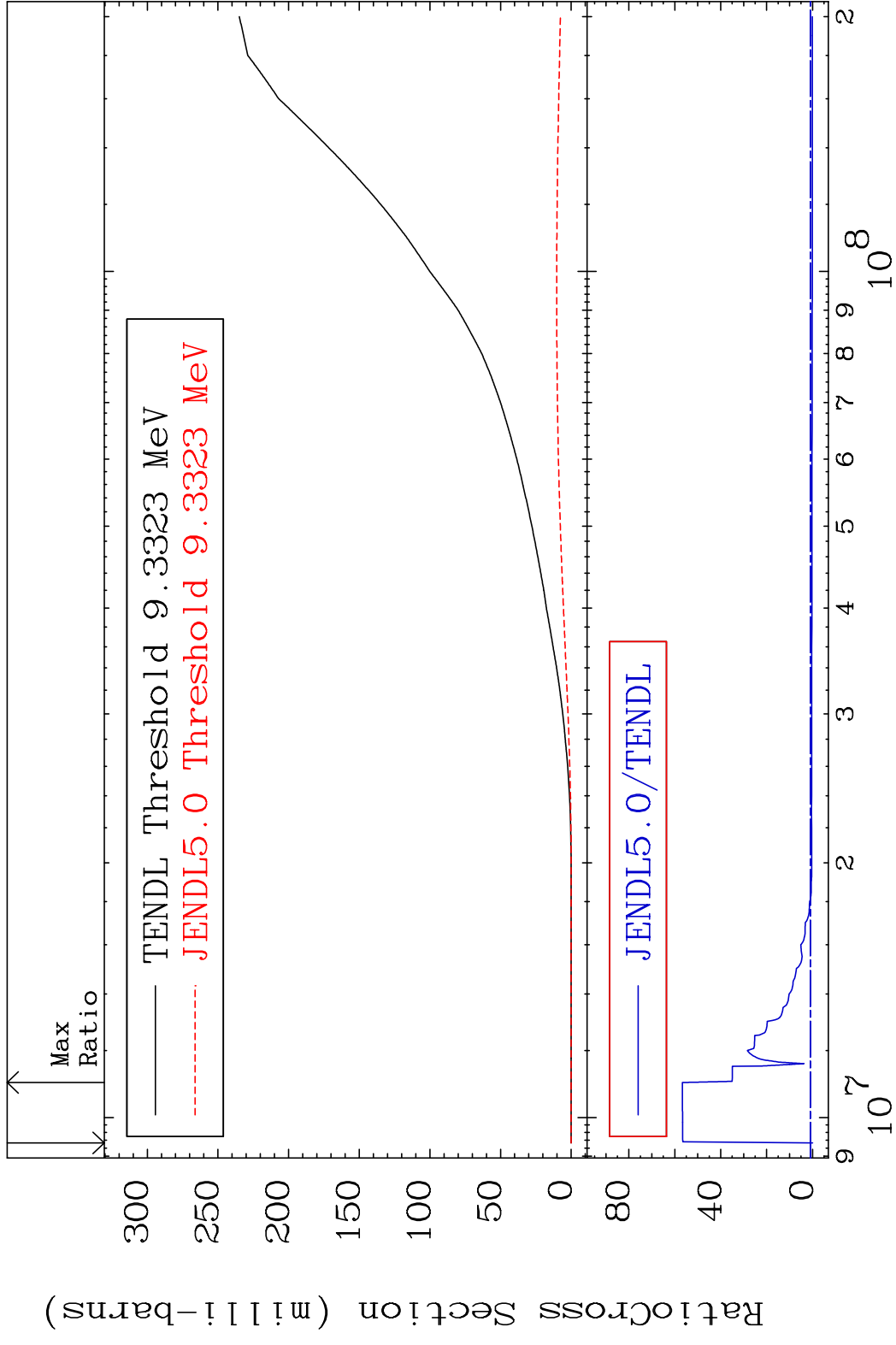
Incident Energy (eV)

28-Ni-60

MAT 2831 Tritium Production 28-Ni-60  
 Cross Section -100.0 To 2251. %



MAT 2831 He-3 Production 28-Ni-60  
 Cross Section -100.0 To 5572. %



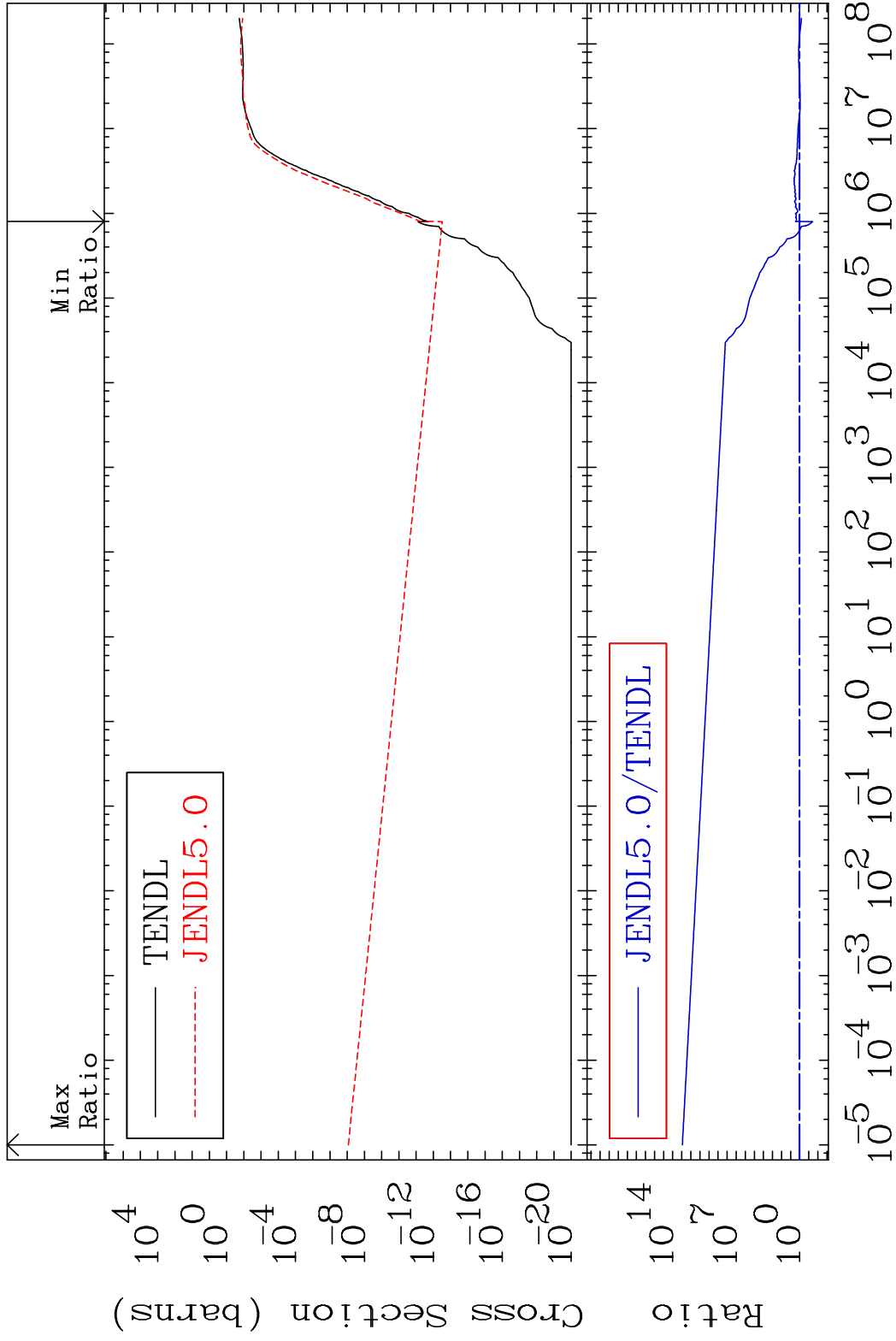
52 28-Ni-60

MAT 2831

He-4 Production

28-Ni-60

Cross Section -96.16 To 9999. %

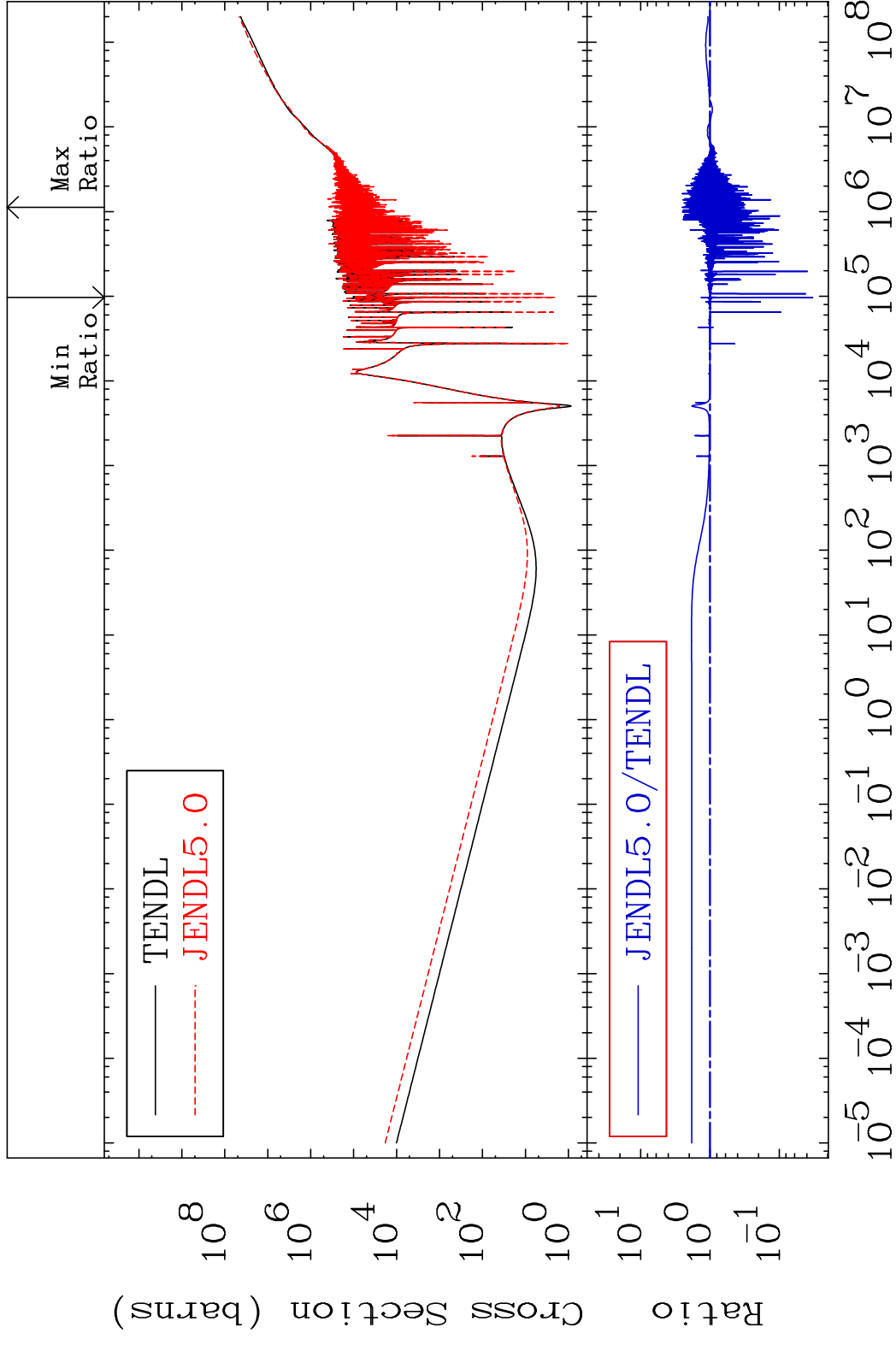


53

Incident Energy (eV)

28-Ni-60

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

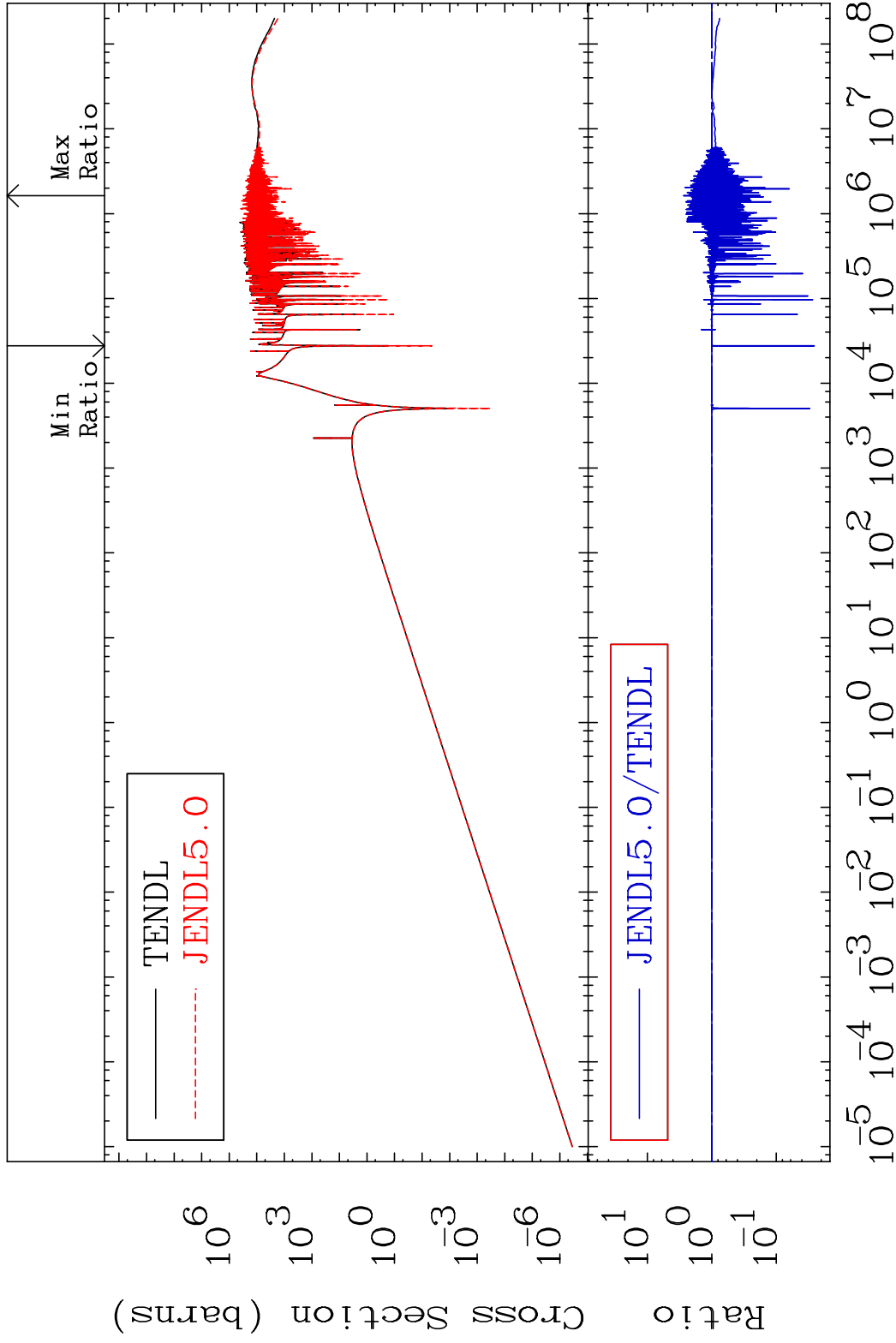


MAT 2831

Kerma elastic

28-Ni-60

Cross Section -97.42 To 173.7 %



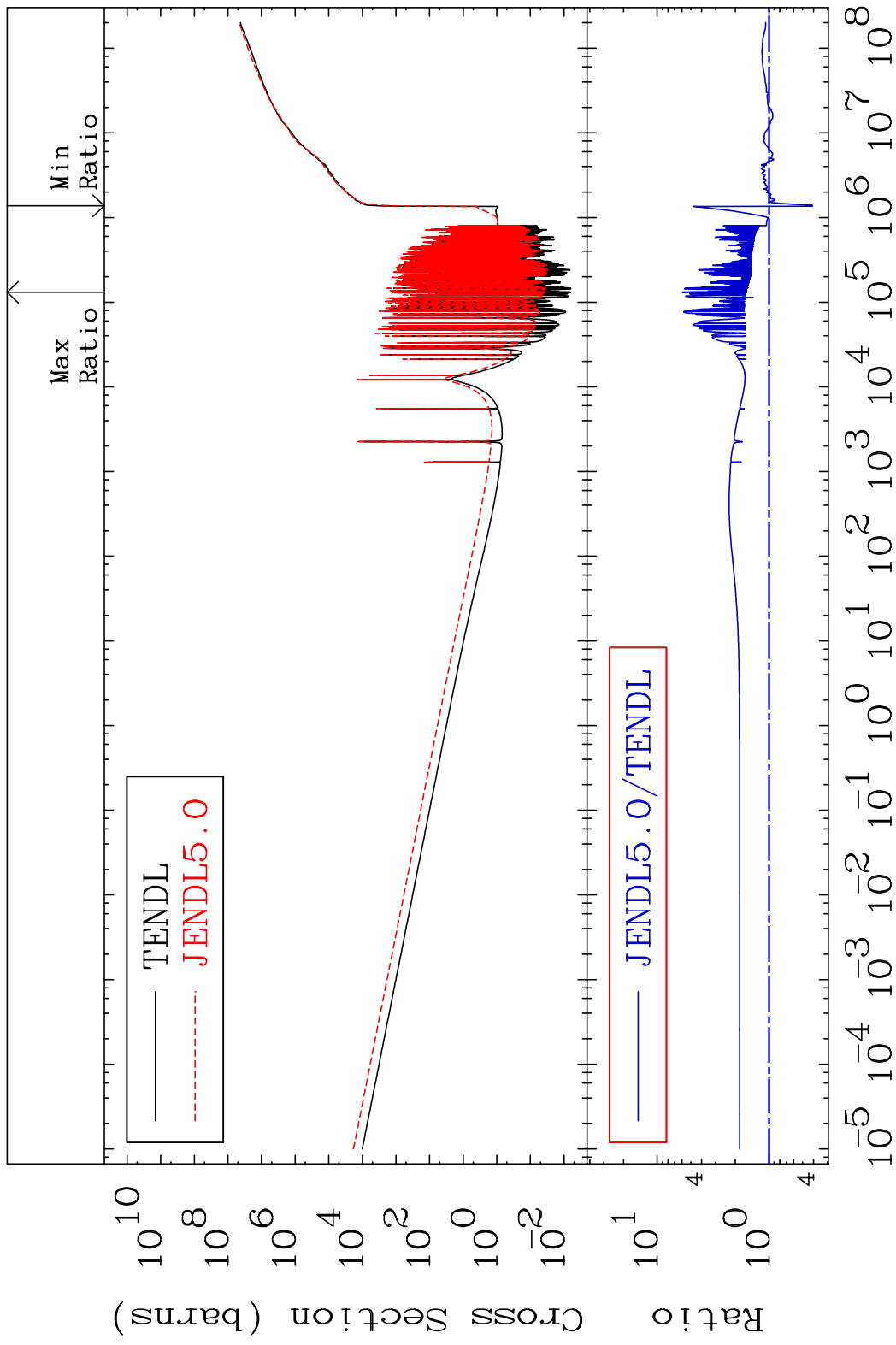
55

Incident Energy (eV)

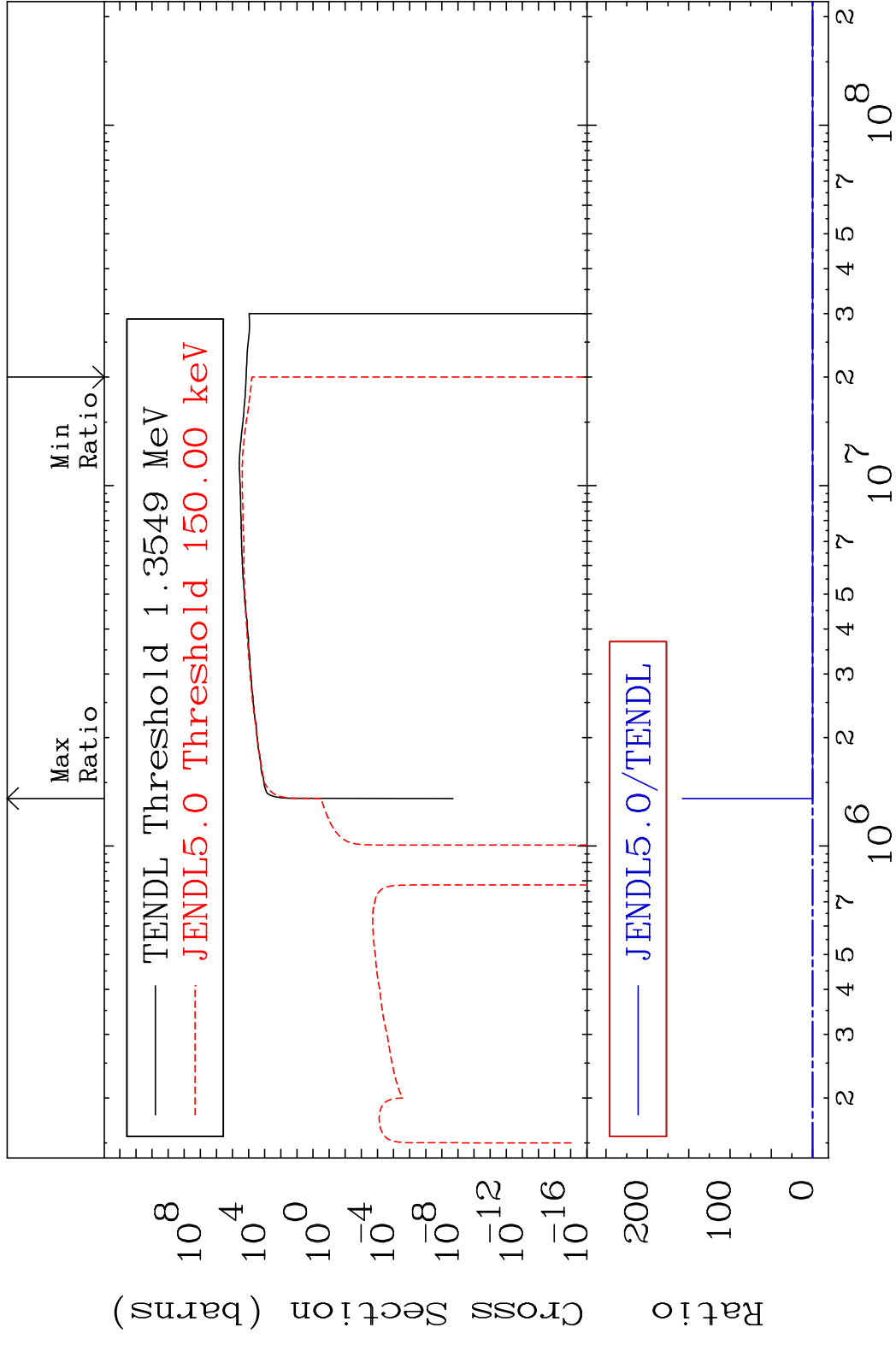
28-Ni-60



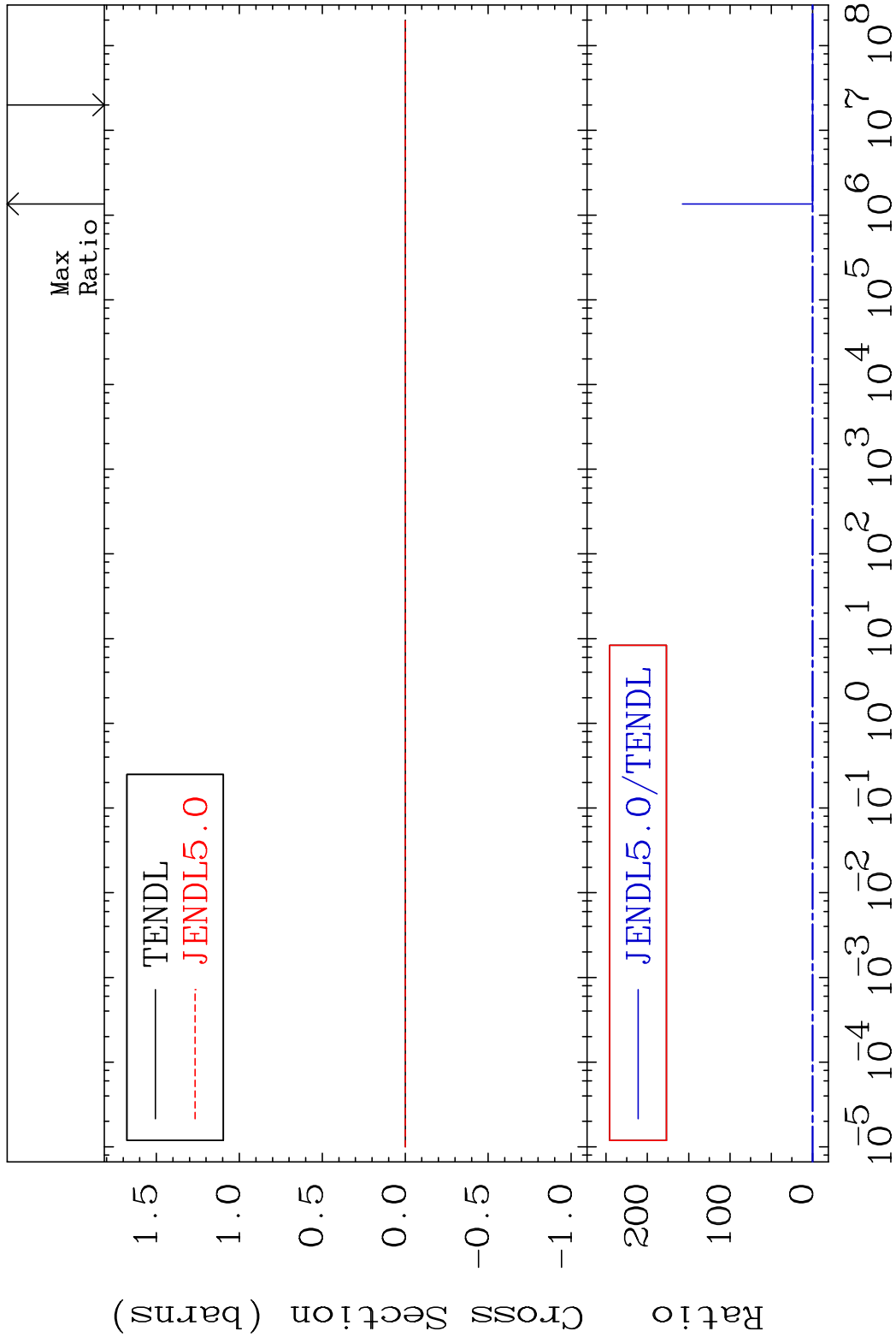
MAT 2831 Kerma non-elastic (all but mt2) 28-Ni-60  
 Cross Section -59.24 To 495.2 %



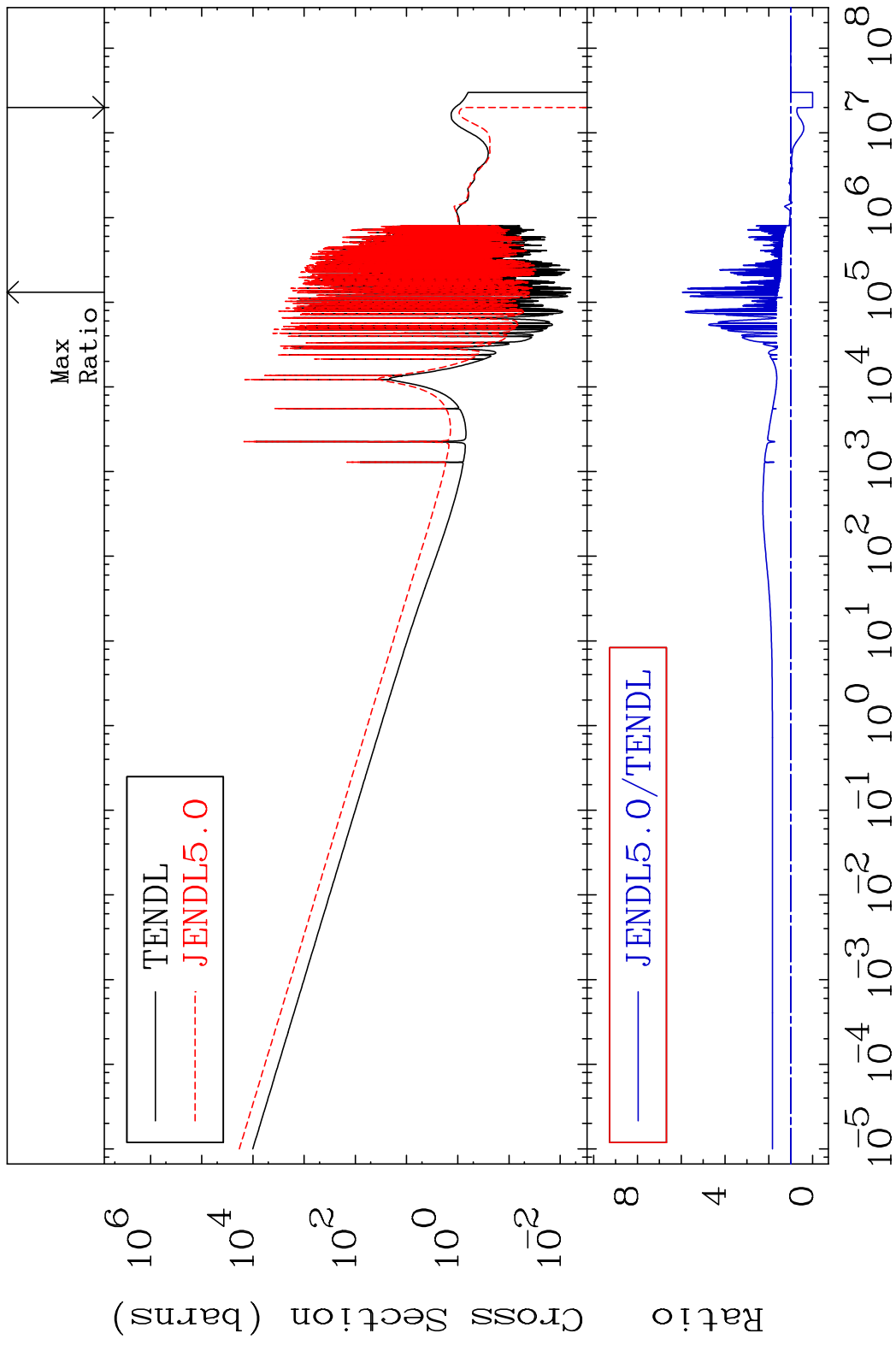
MAT 2831 Kerma inelastic (mt51-91) 28-Ni-60  
 Cross Section -100.0 To 9999. %



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

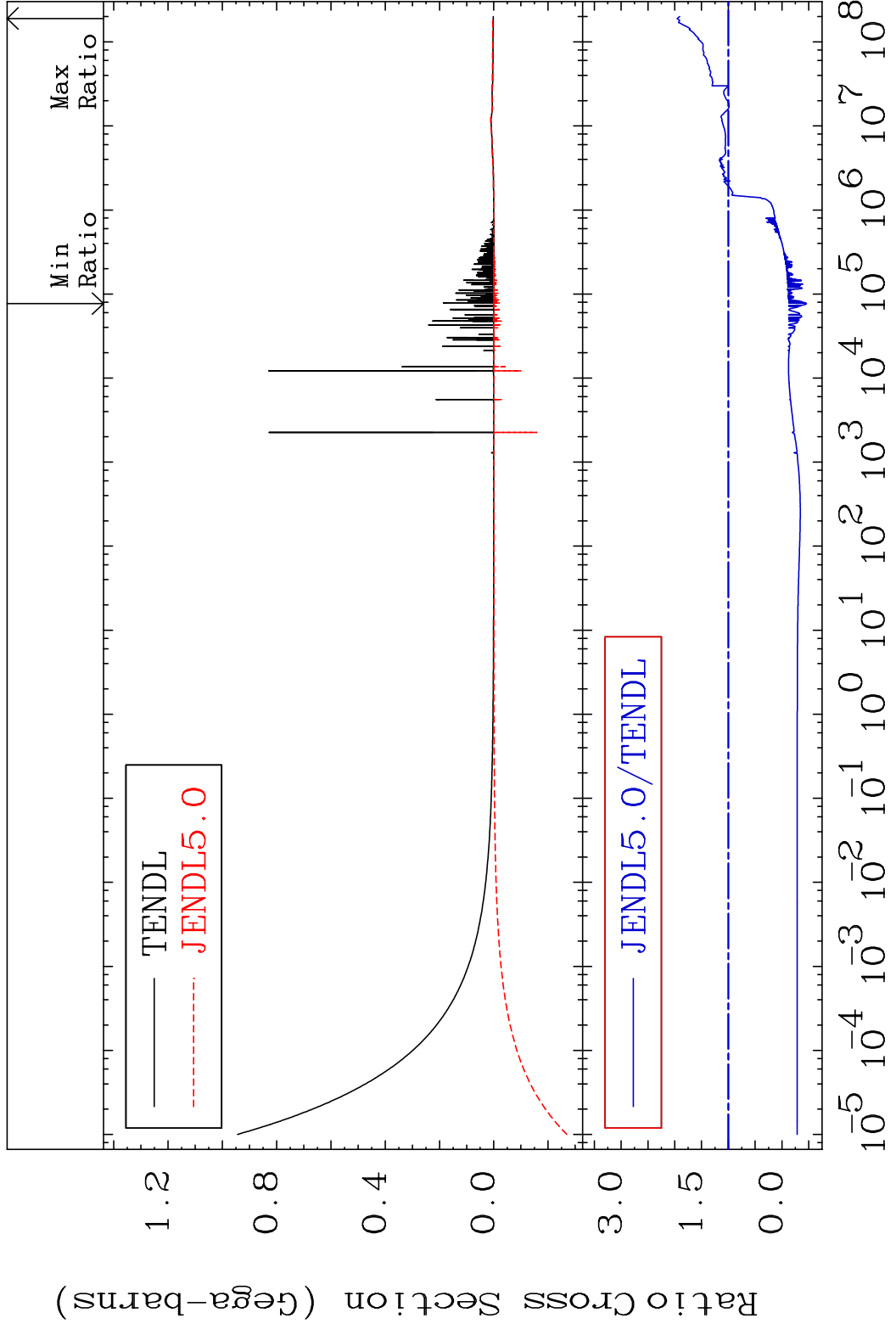


MAT 2831 Kerma capture (mt102) 28-Ni-60  
 Cross Section -100.0 To 495.2 %



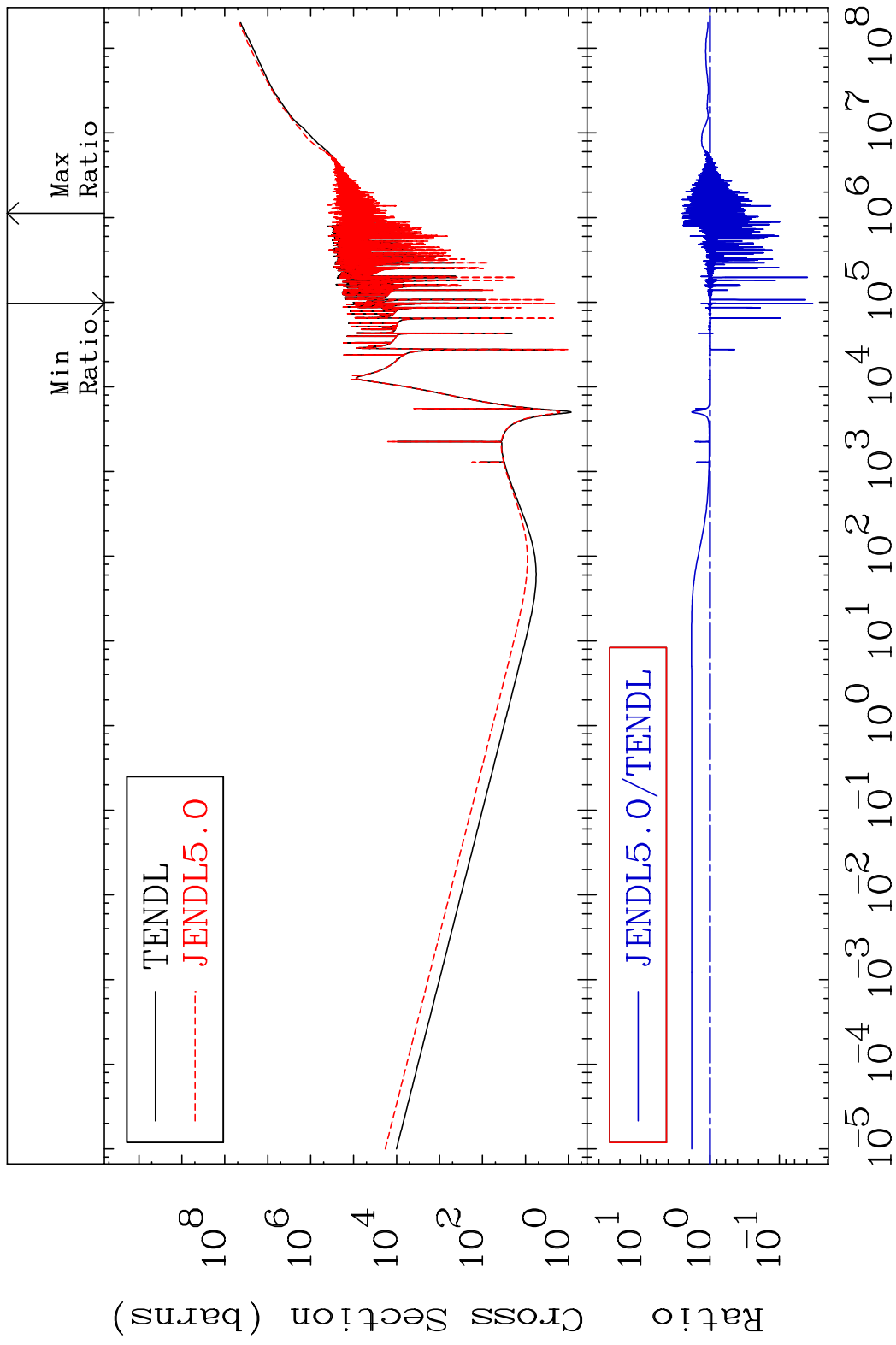
59 Incident Energy (eV) 28-Ni-60

MAT 2831 Total photon (eV-barns) 28-Ni-60  
 Cross Section -145.6 To 95.41 %

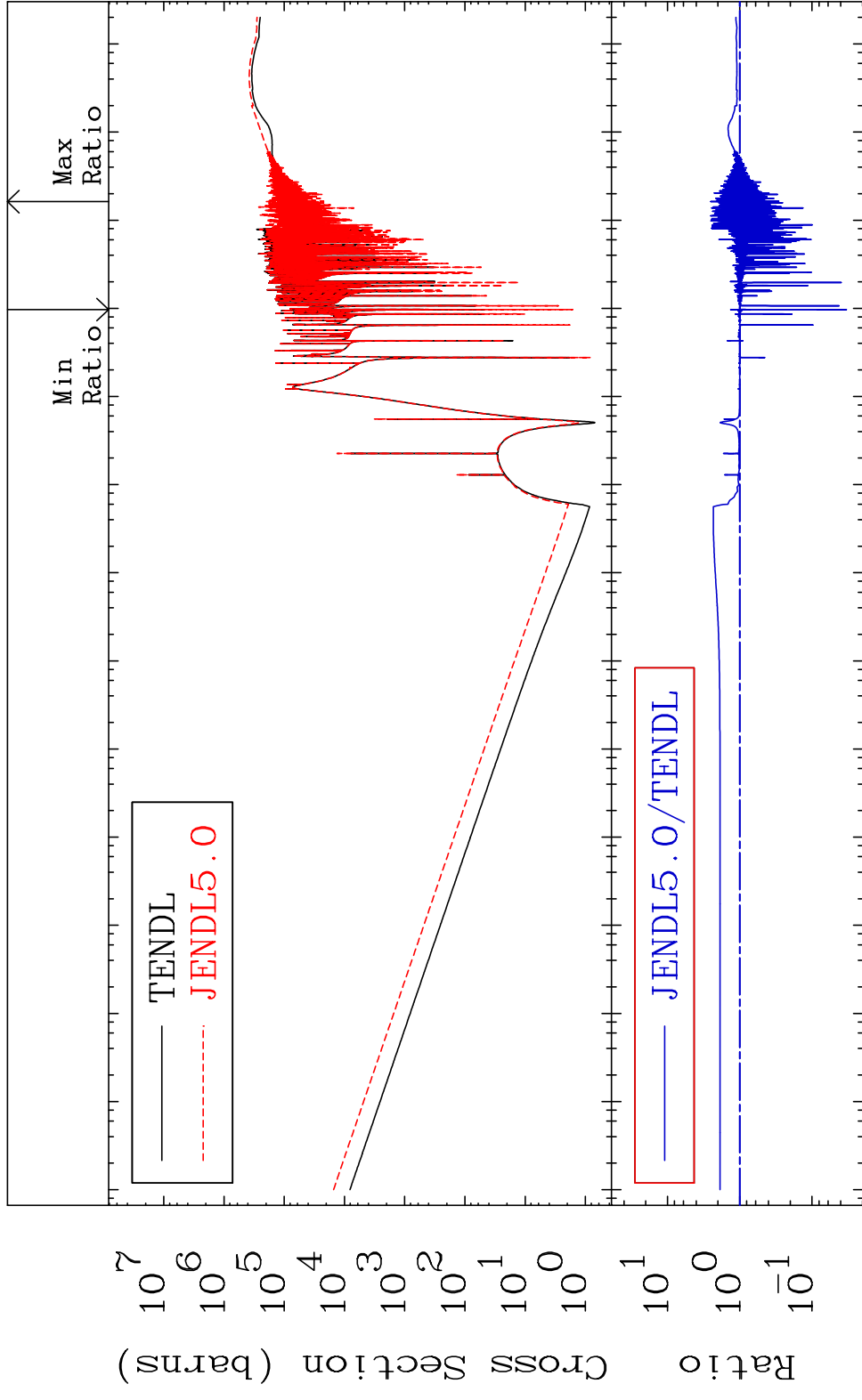


60 Incident Energy (eV) 28-Ni-60

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      -96.65 To 152.1 %



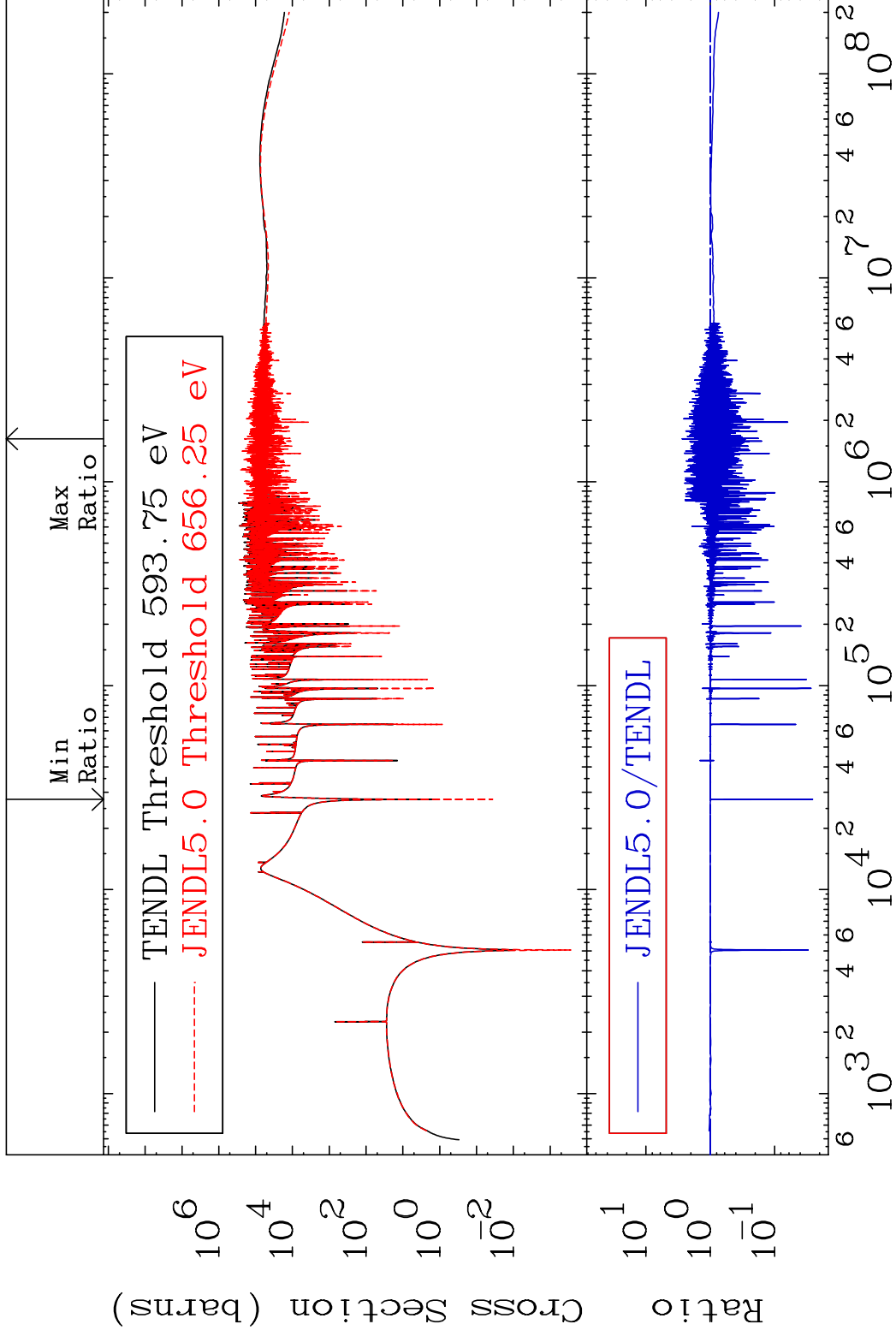
62      Incident Energy (eV)      28-Ni-60

MAT 2831

Dpa elastic (mt2)

28-Ni-60

Cross Section -97.42 To 174.1 %



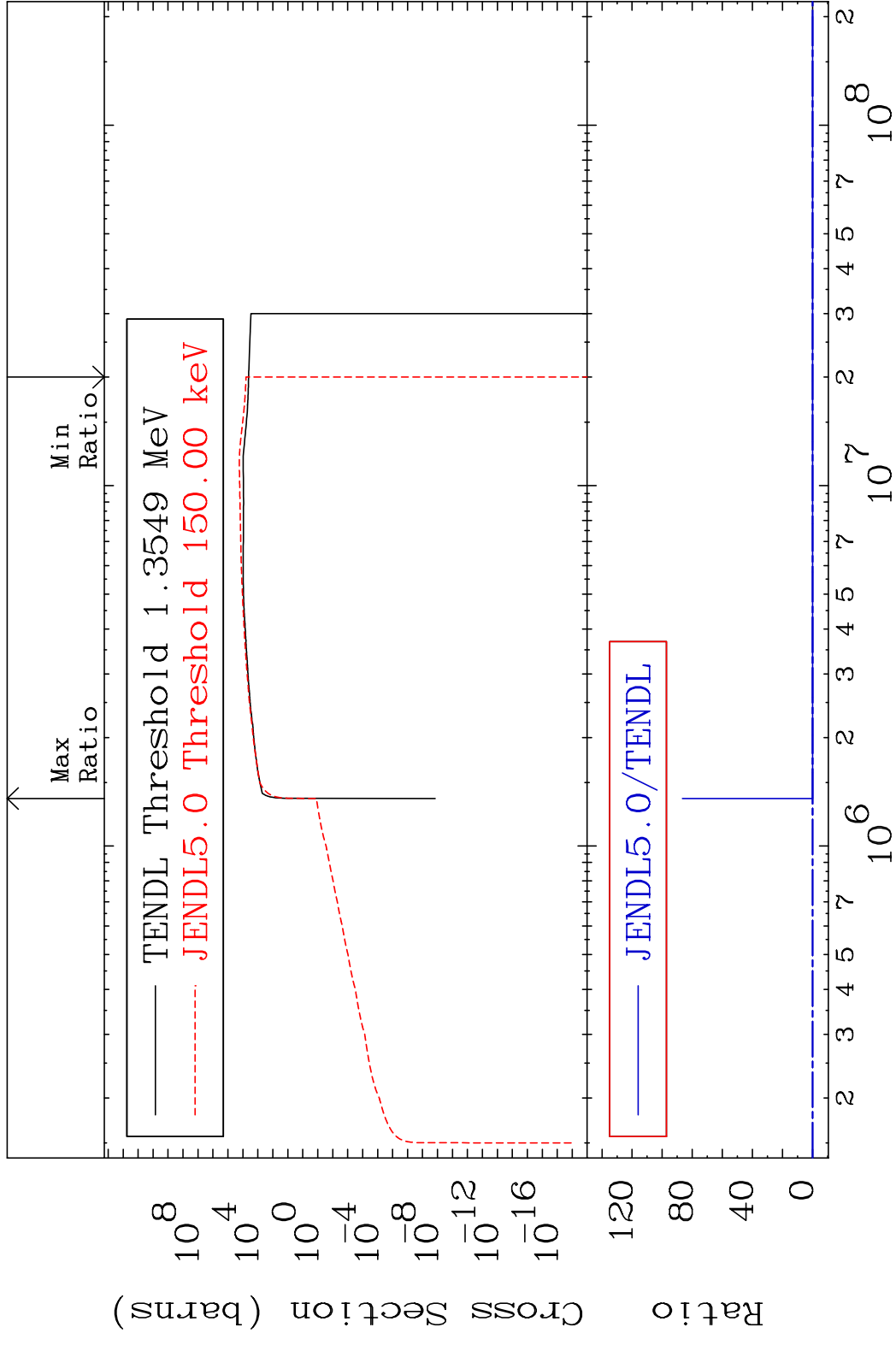
63

Incident Energy (eV)

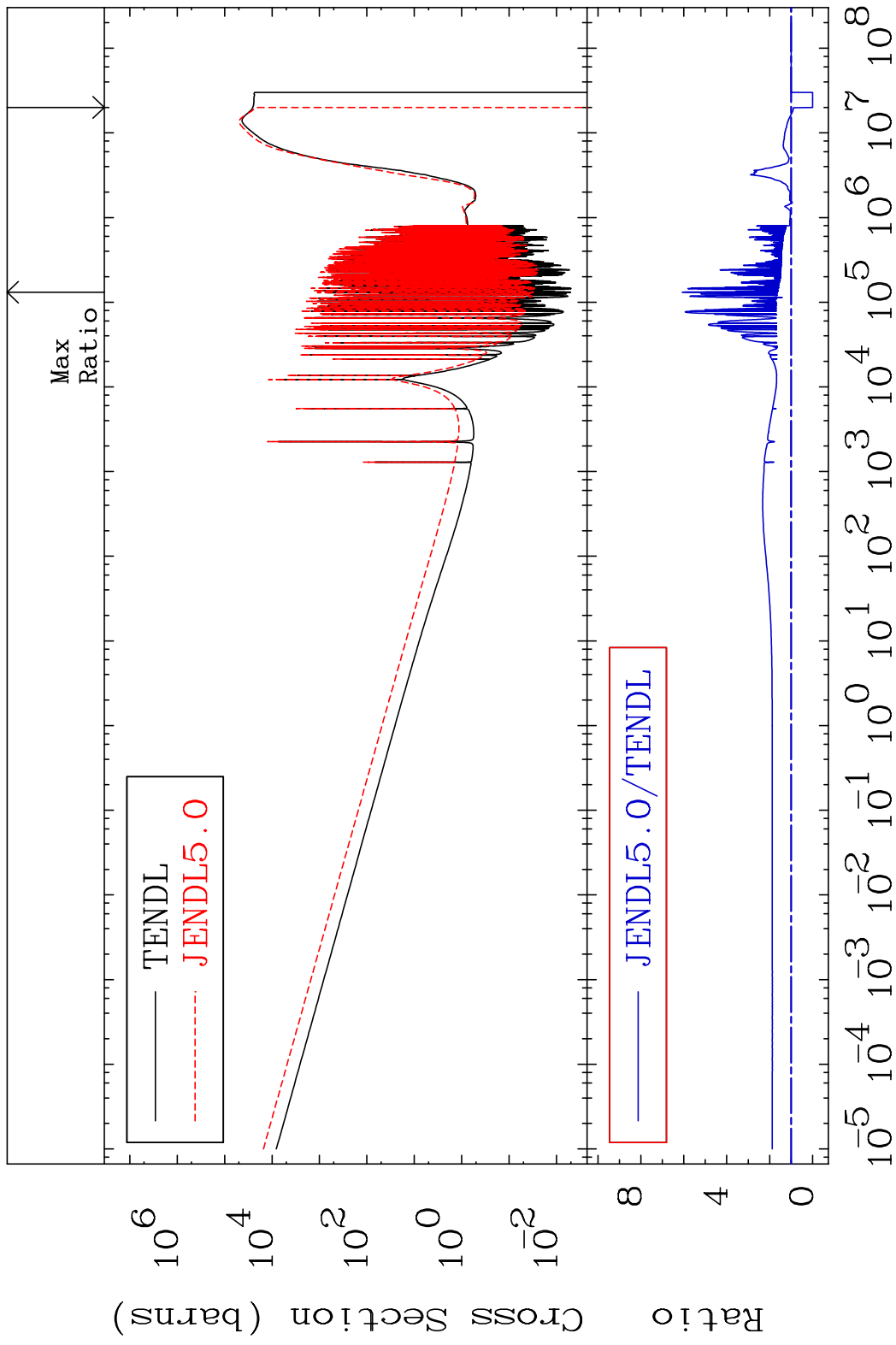
28-Ni-60



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

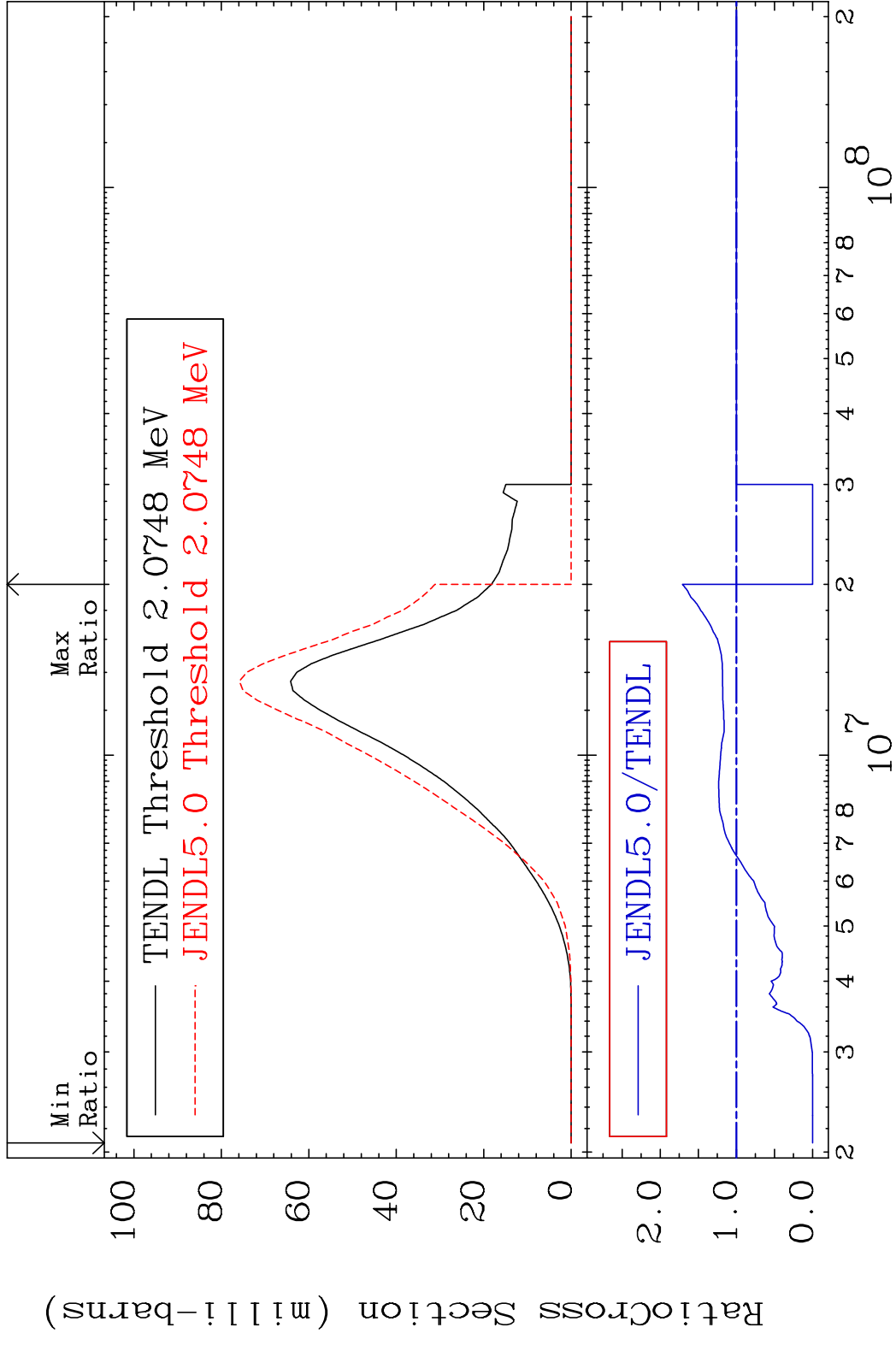


MAT 2831 Dpa disappearance (mt102 -120) 28-Ni-60  
Cross Section -100.0 To 506.9 %

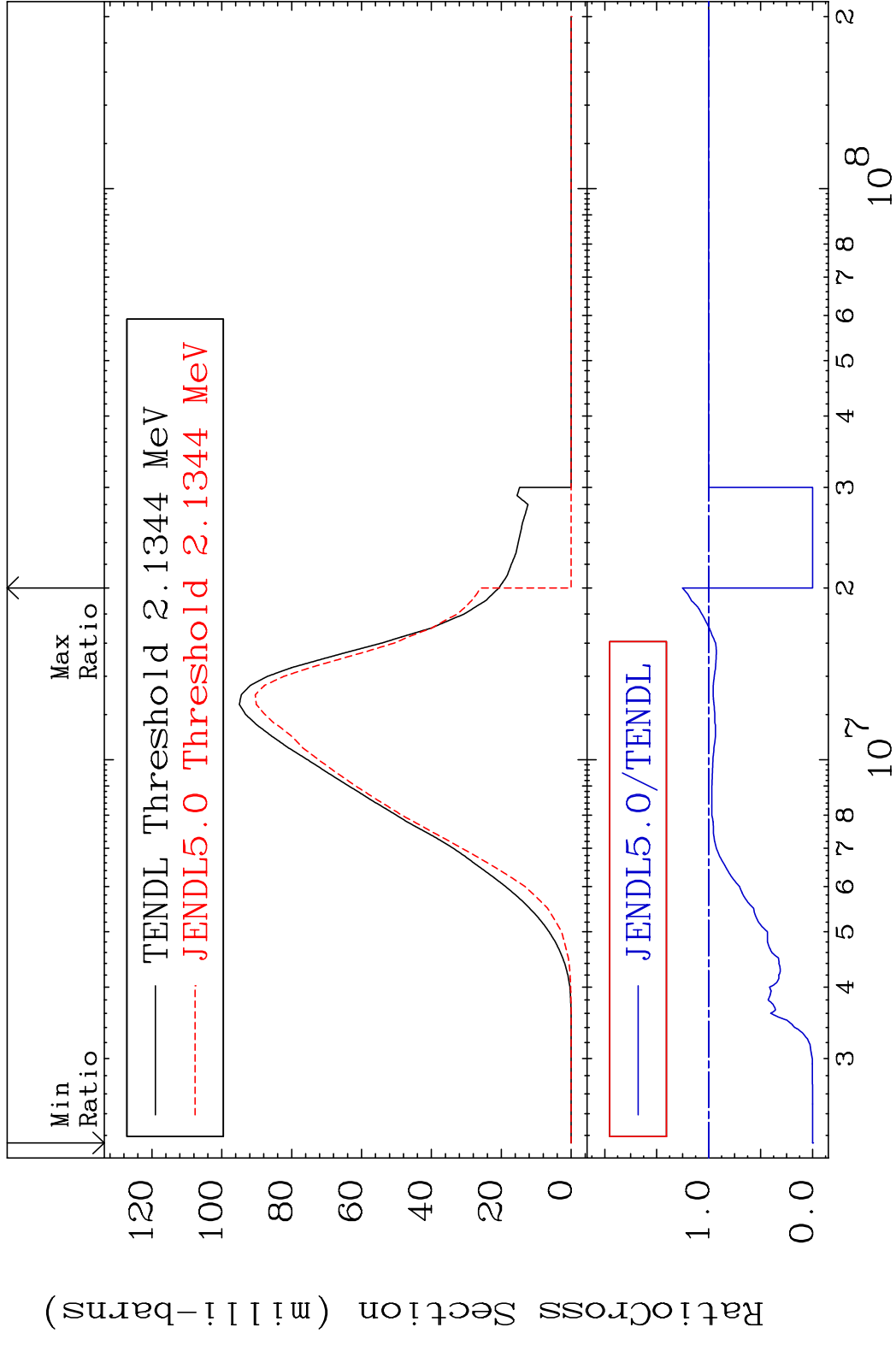


65 Incident Energy (eV) 28-Ni-60

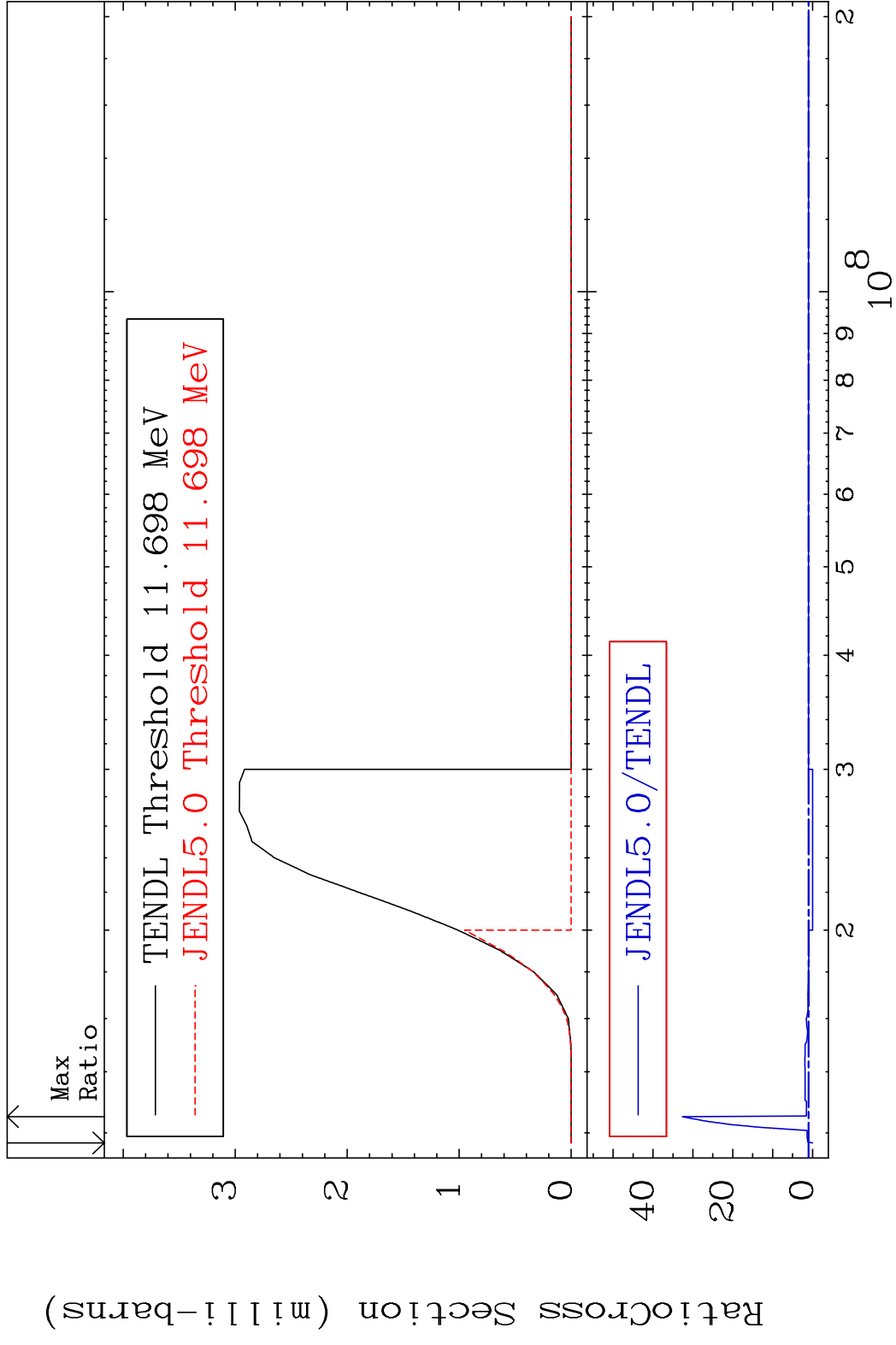
MAT 2831 (n, p): 27-Co-60g 28-Ni-60  
 Radionuclide Production Cross Section 180.01 dth 70.96 %



MAT 2831 (n,p):27-Co-60m1 28-Ni-60  
 Radionuclide Production Cross Section 180.01 dth 25.31 %



MAT 2831 (n, t):27-Co-58g 28-Ni-60  
 Radionuclide Production Cross Section 180.0 mb 3164. %



MAT 2831 (n,t):27-Co-58m1 28-Ni-60  
 Radionuclide Production Cross Section Ratio 997.8 %

