

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

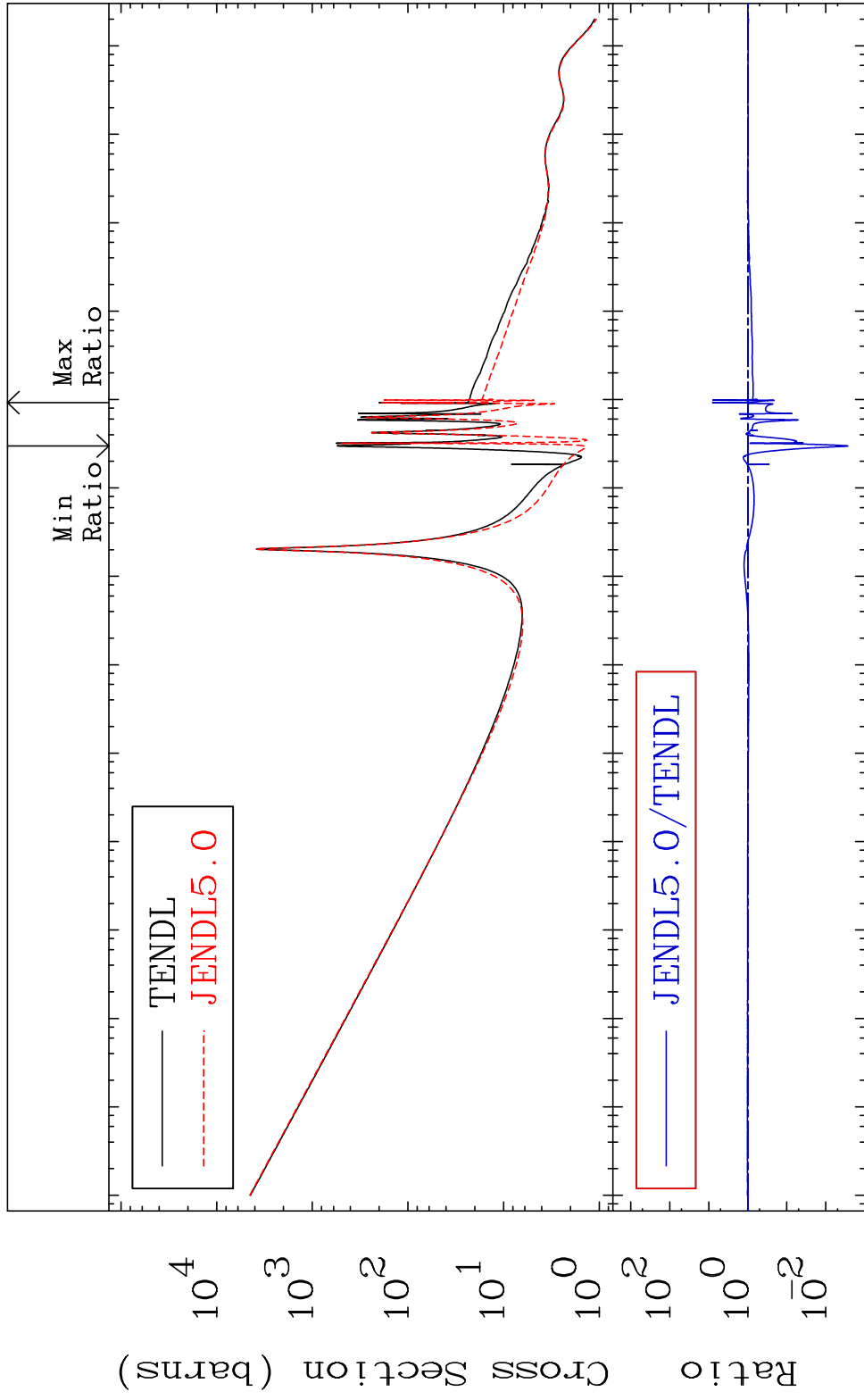
MAT 2828

Total

28-Ni-59

Cross Section

-99.74 To 709.0 %



1

Incident Energy (eV)

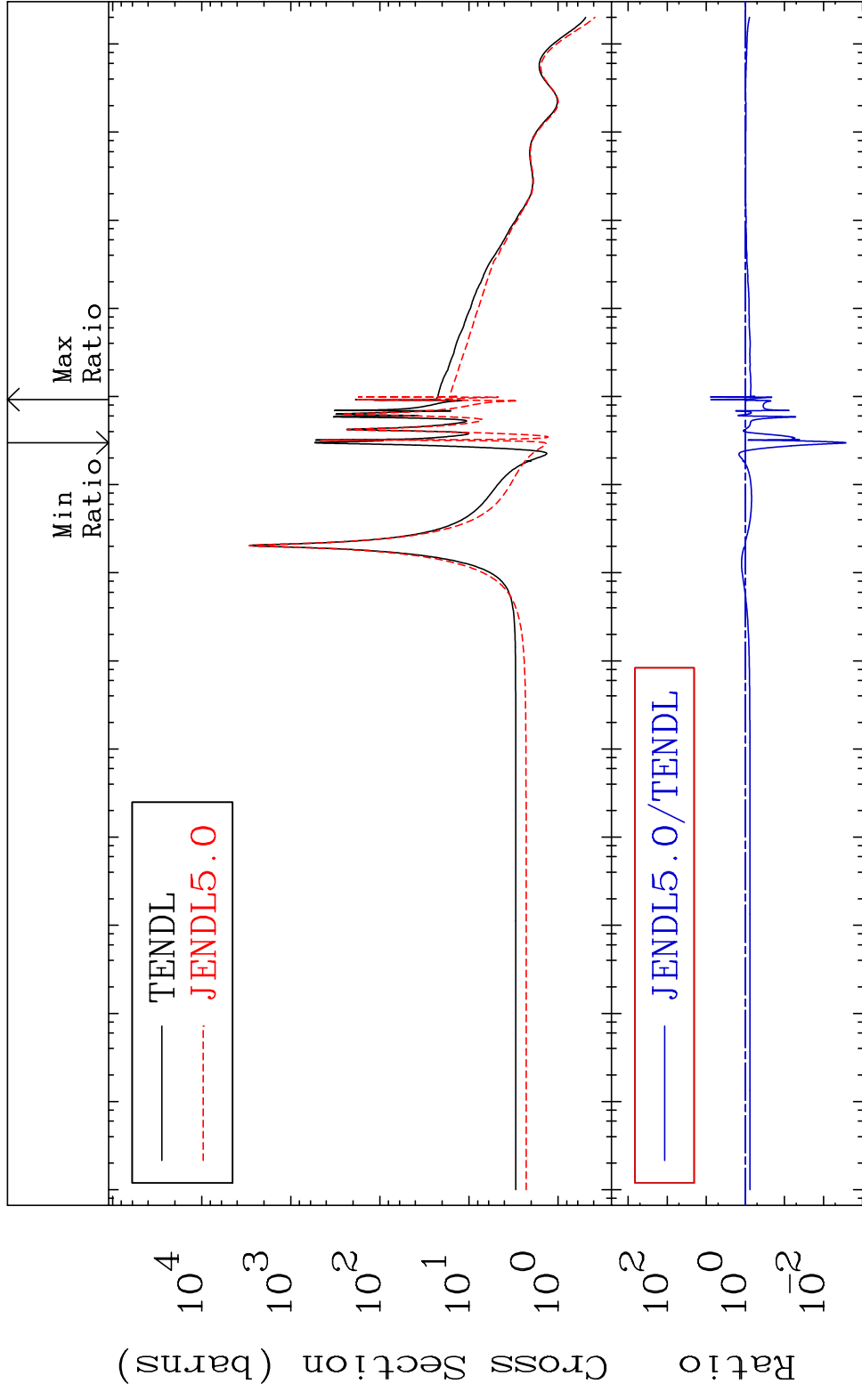
28-Ni-59

MAT 2828

28-Ni-59

Elastic

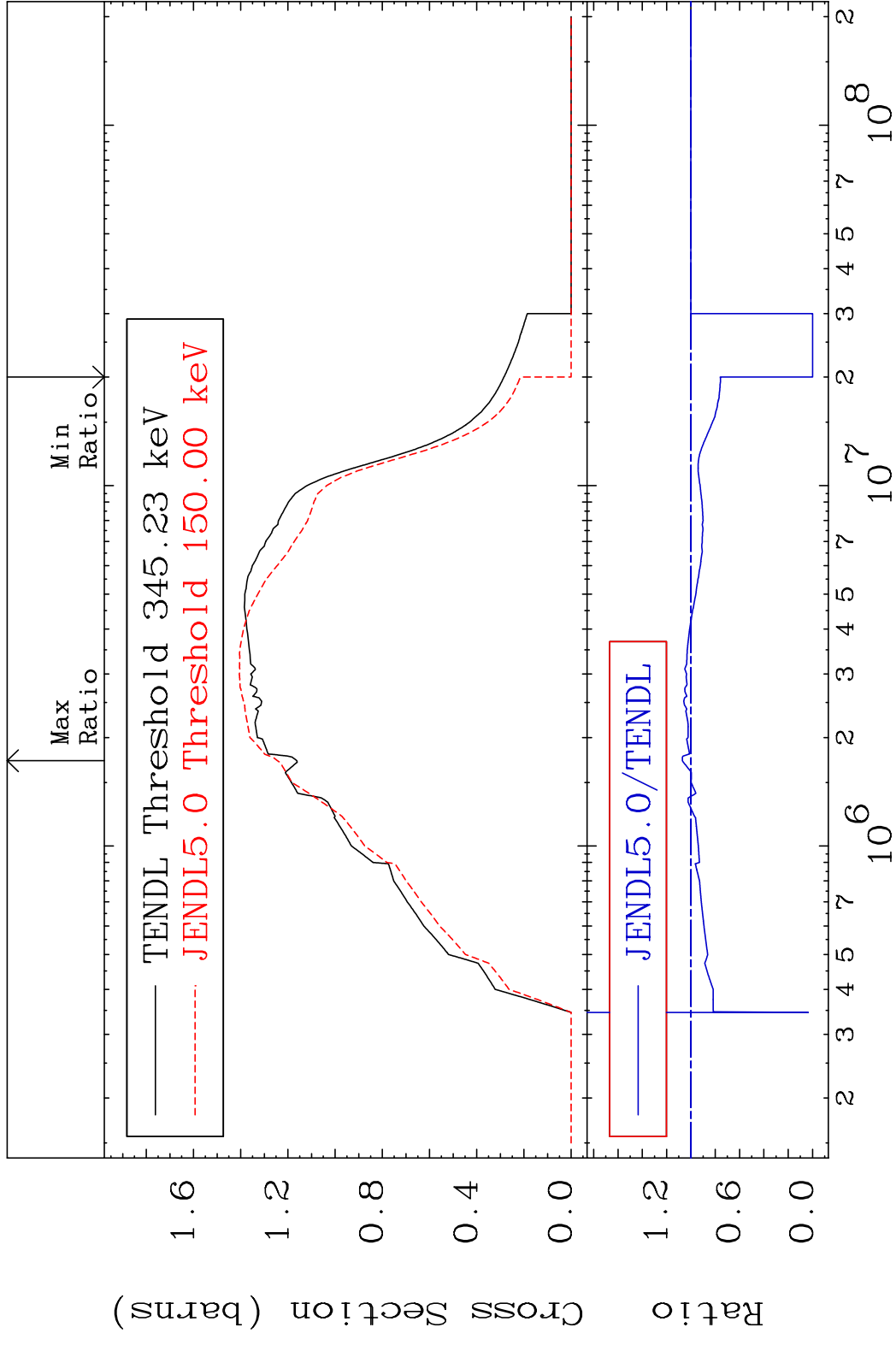
Cross Section -99.74 To 672.1 %



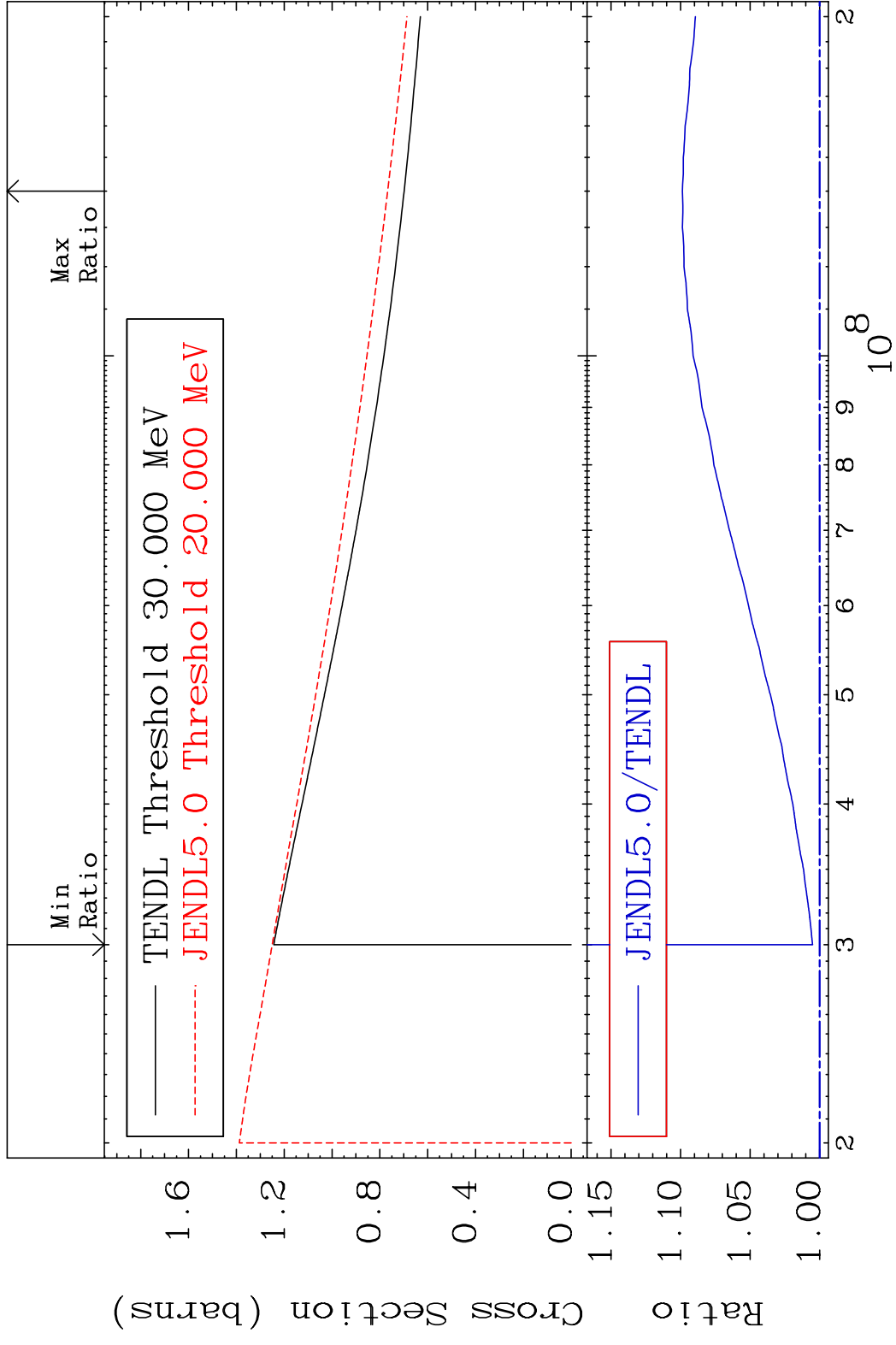
Ratio

2 Incident Energy (eV) 28-Ni-59

MAT 2828 Inelastic 28-Ni-59
 Cross Section -100.0 To 7.060 %

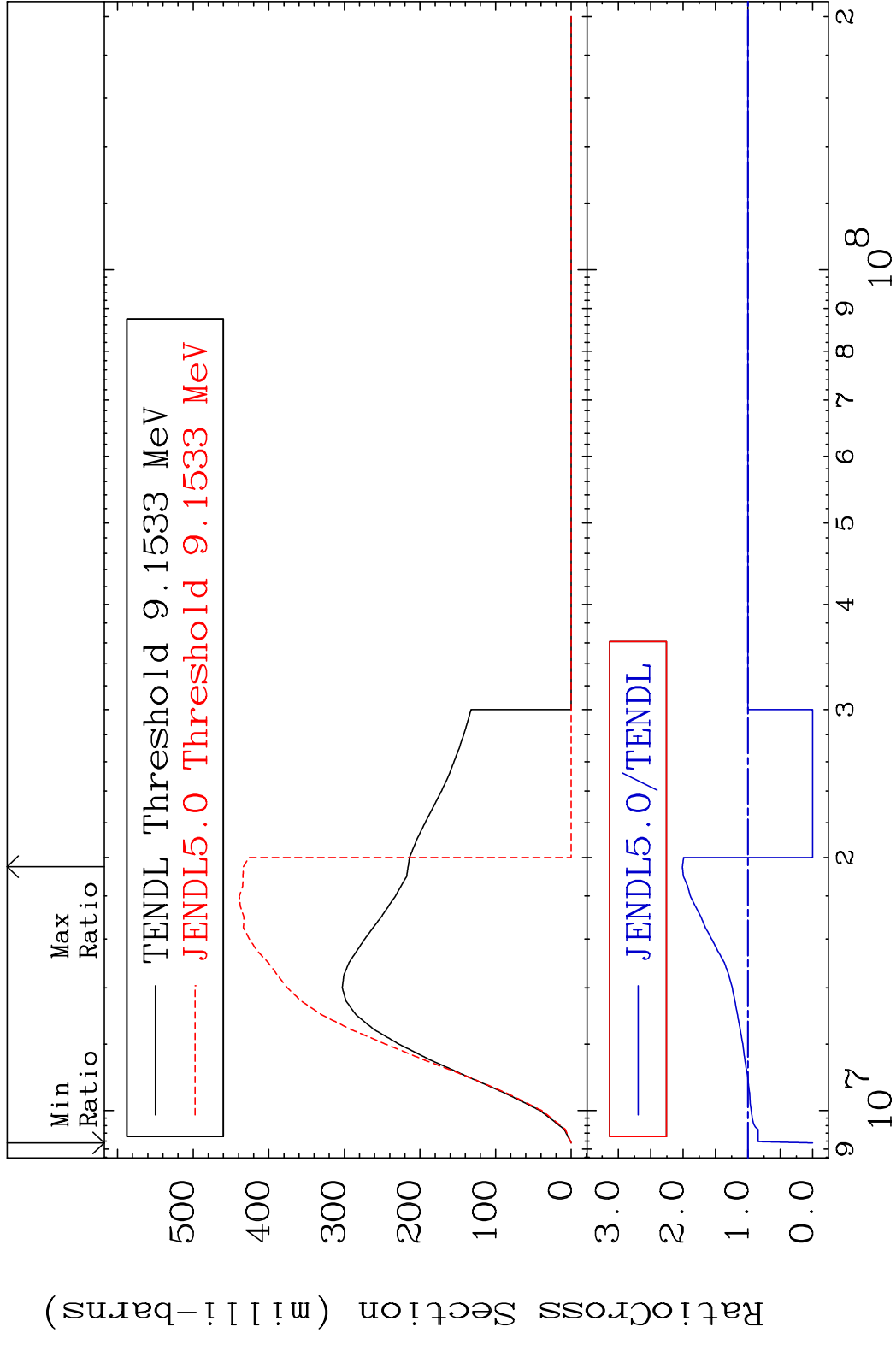


MAT 2828 (n, remainder) 28-Ni-59
 Cross Section 0.509 To 9.874 %



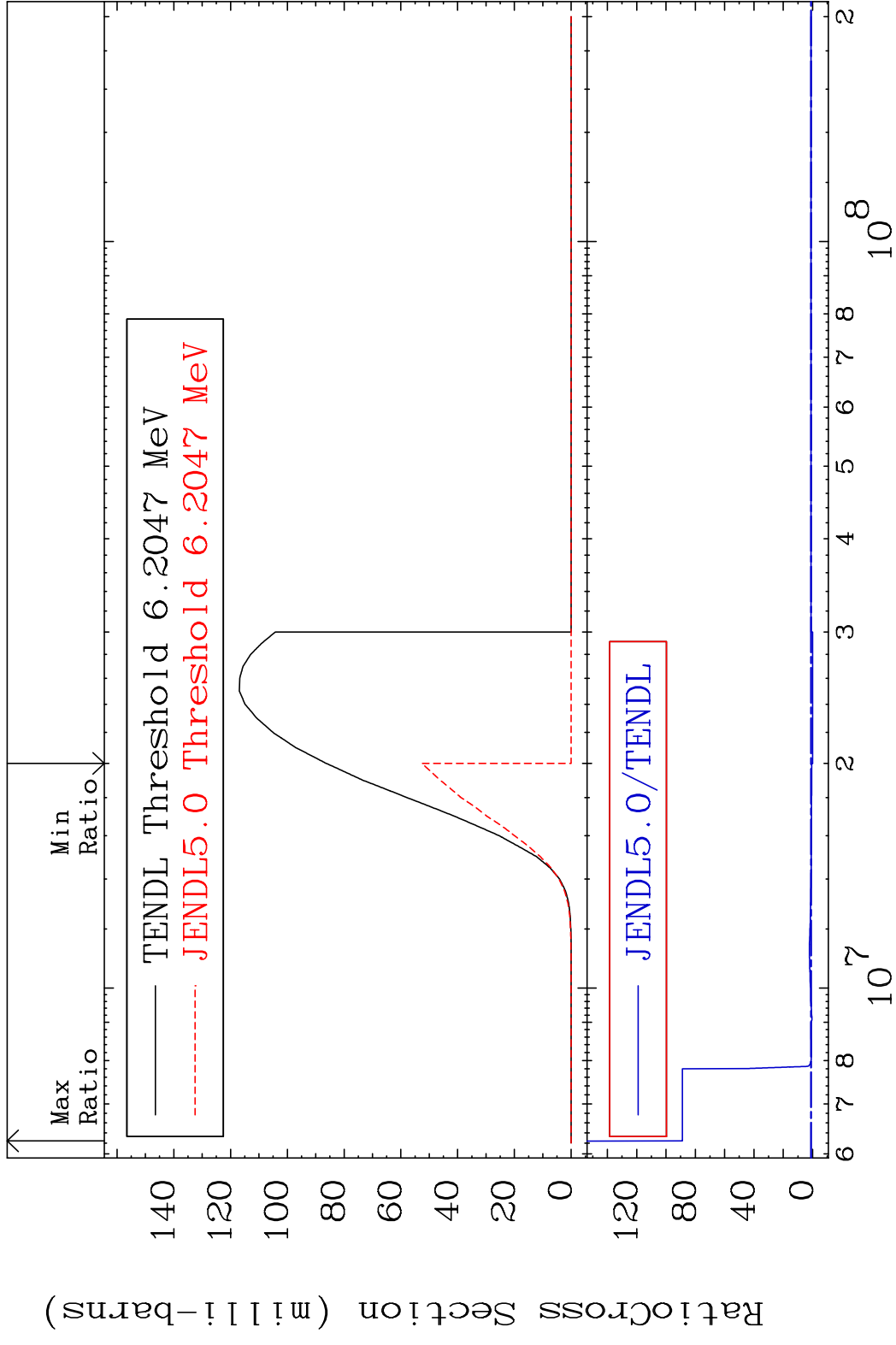
4 Incident Energy (eV) 28-Ni-59

MAT 2828 (n,2n) 28-Ni-59
 Cross Section -100.0 To 101.1 %



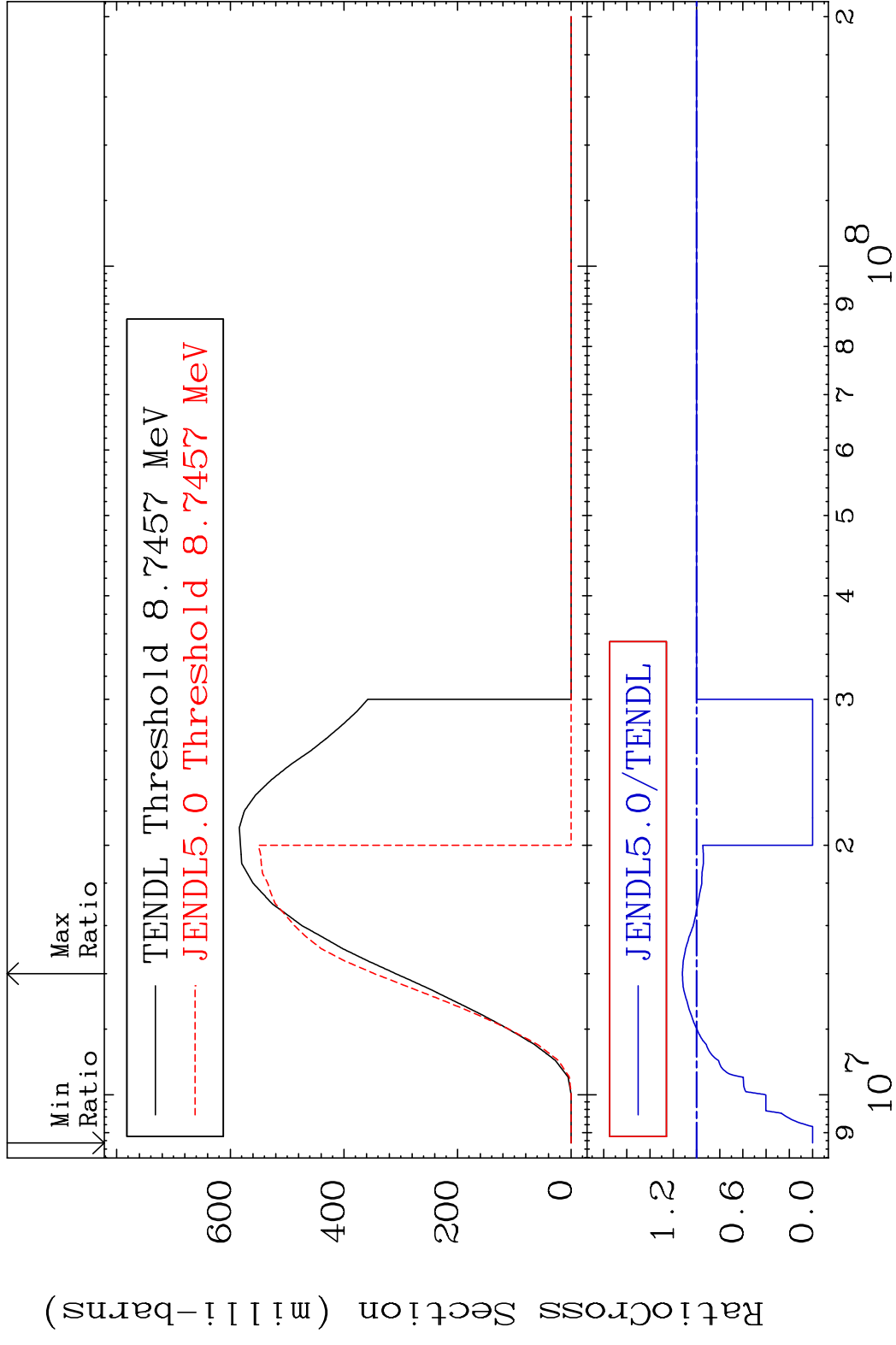
5 Incident Energy (eV) 28-Ni-59

MAT 2828 (n, n') α 28-Ni-59
 Cross Section -100.0 To 8785. %



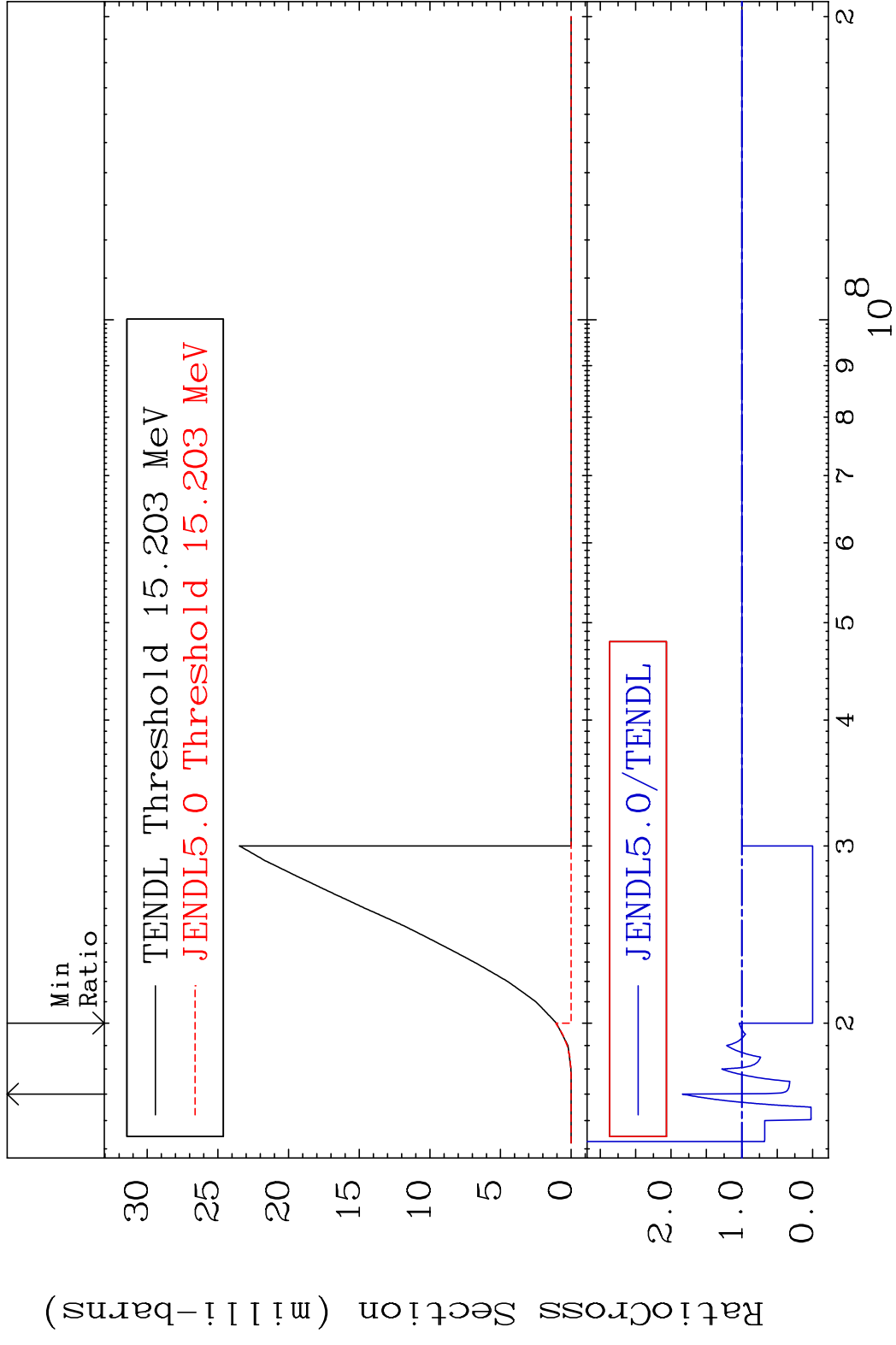
6 Incident Energy (eV) 28-Ni-59

MAT 2828 (n, n') p 28-Ni-59
 Cross Section -100.0 To 12.18 %

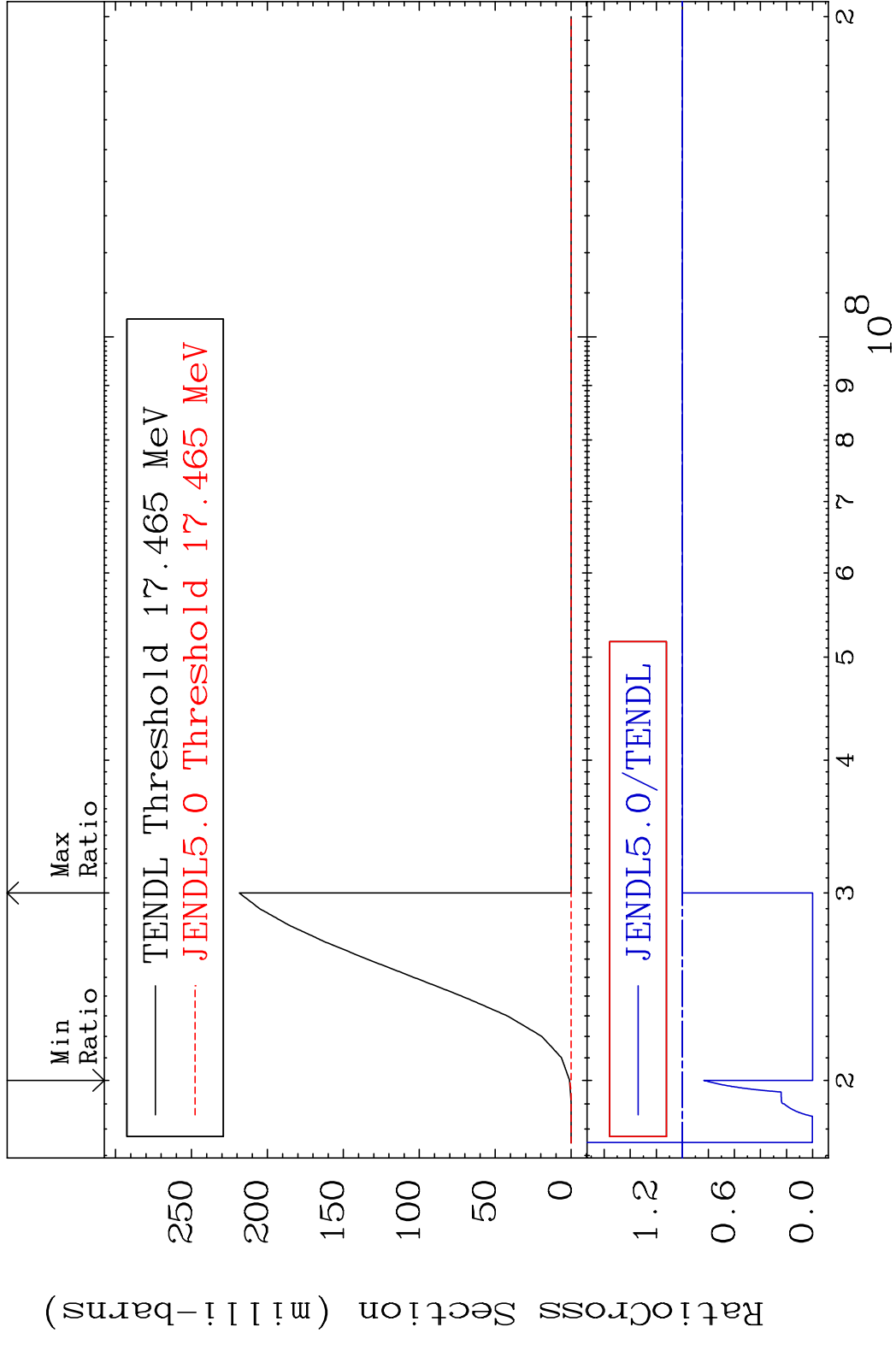


7 Incident Energy (eV) 28-Ni-59

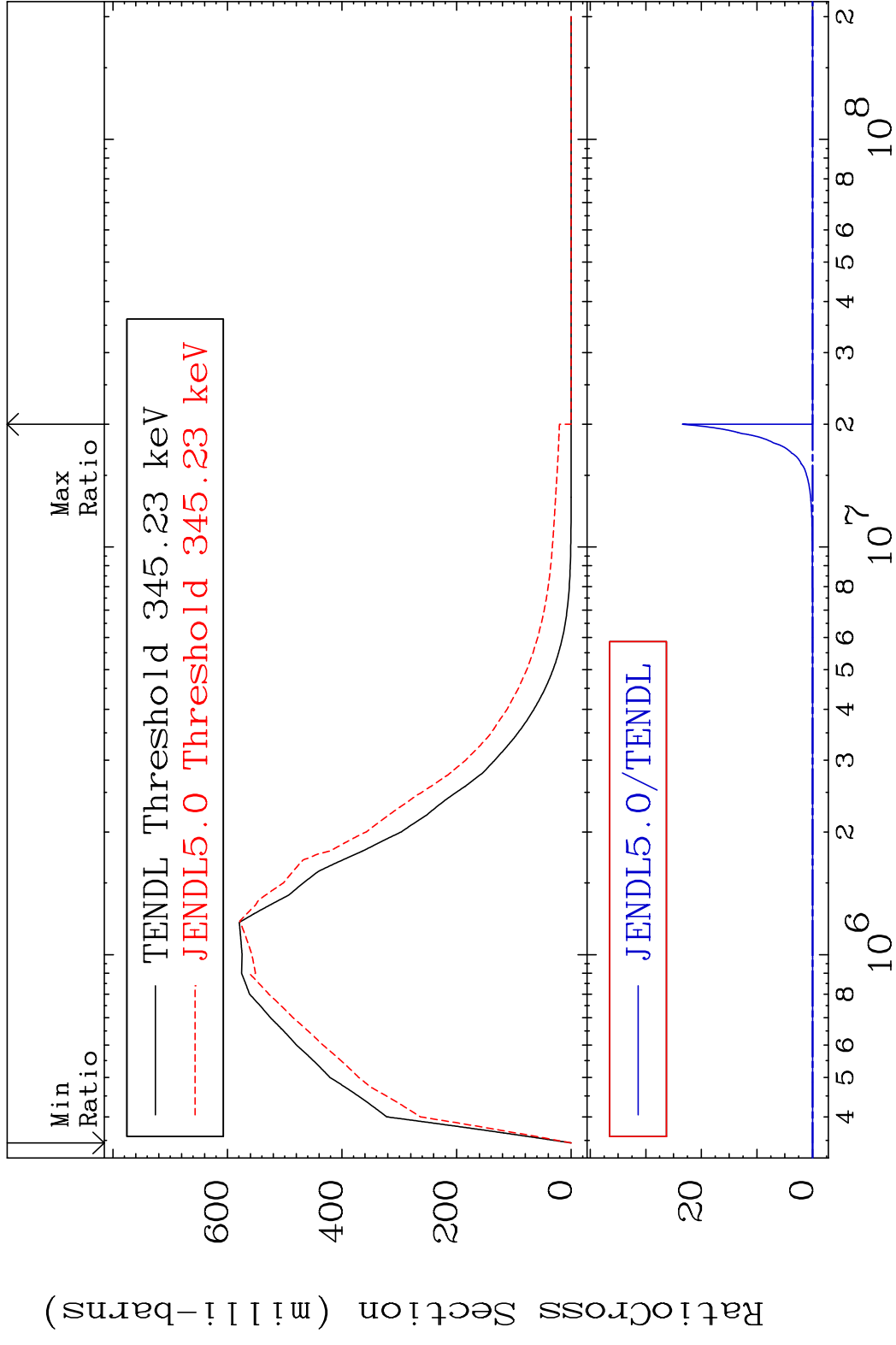
MAT 2828 (n, n') d 28-Ni-59
 Cross Section -100.0 To 84.02 %



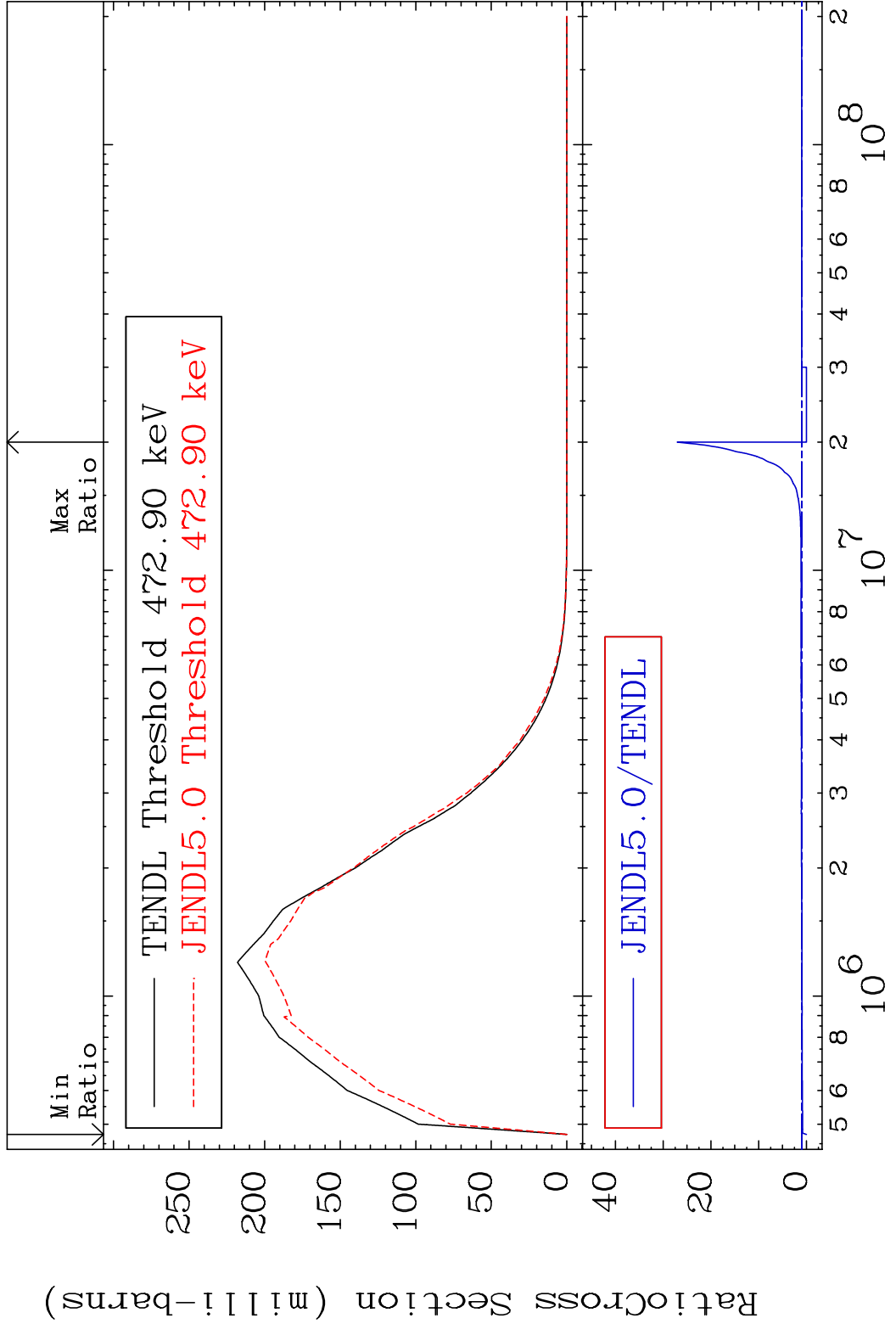
MAT 2828 (n,2n) p 28-Ni-59
 Cross Section -100.0 To 0.000 %



MAT 2828 MT= 51 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 9999. %

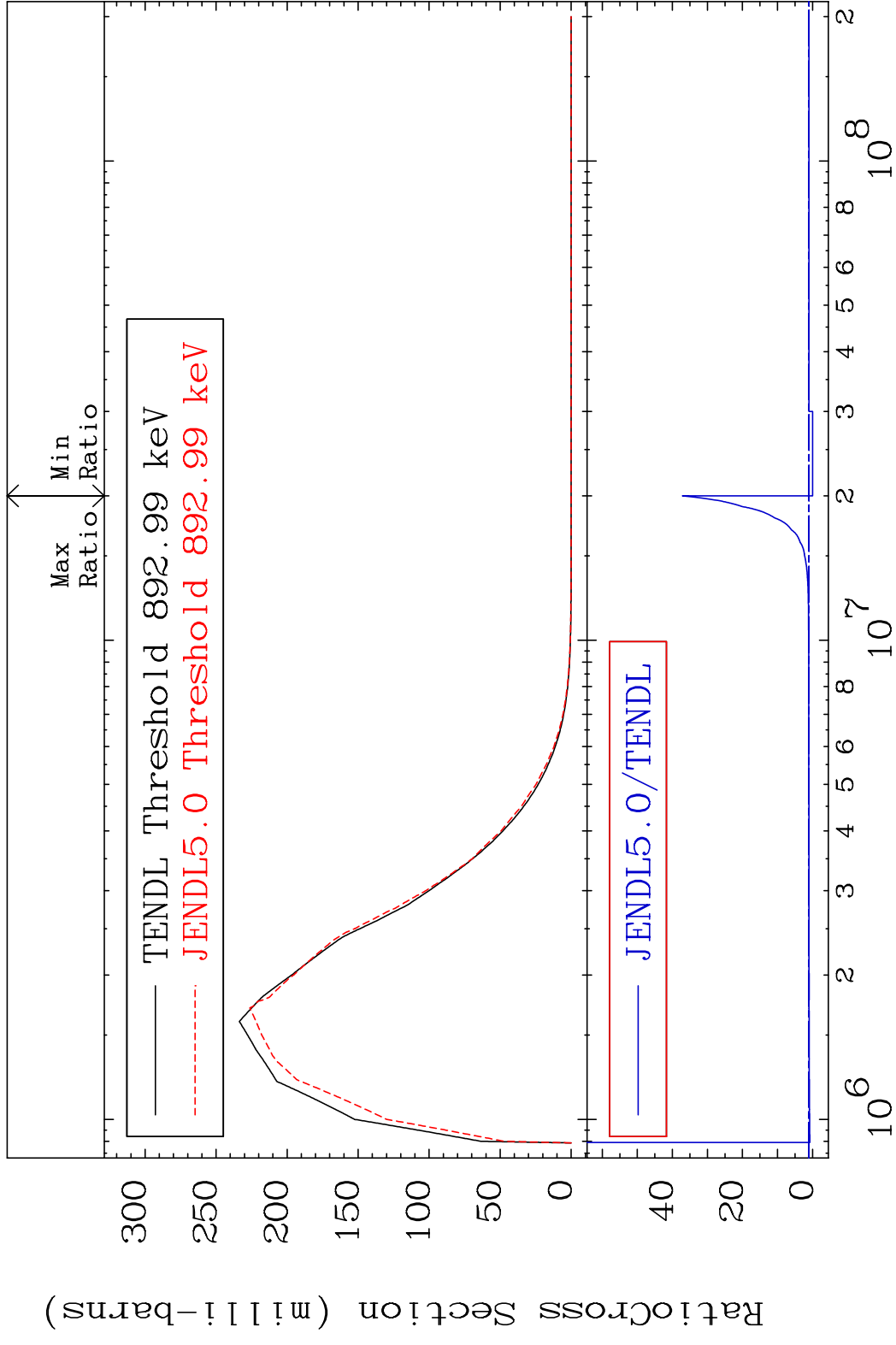


MAT 2828 MT= 52 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 2606. %



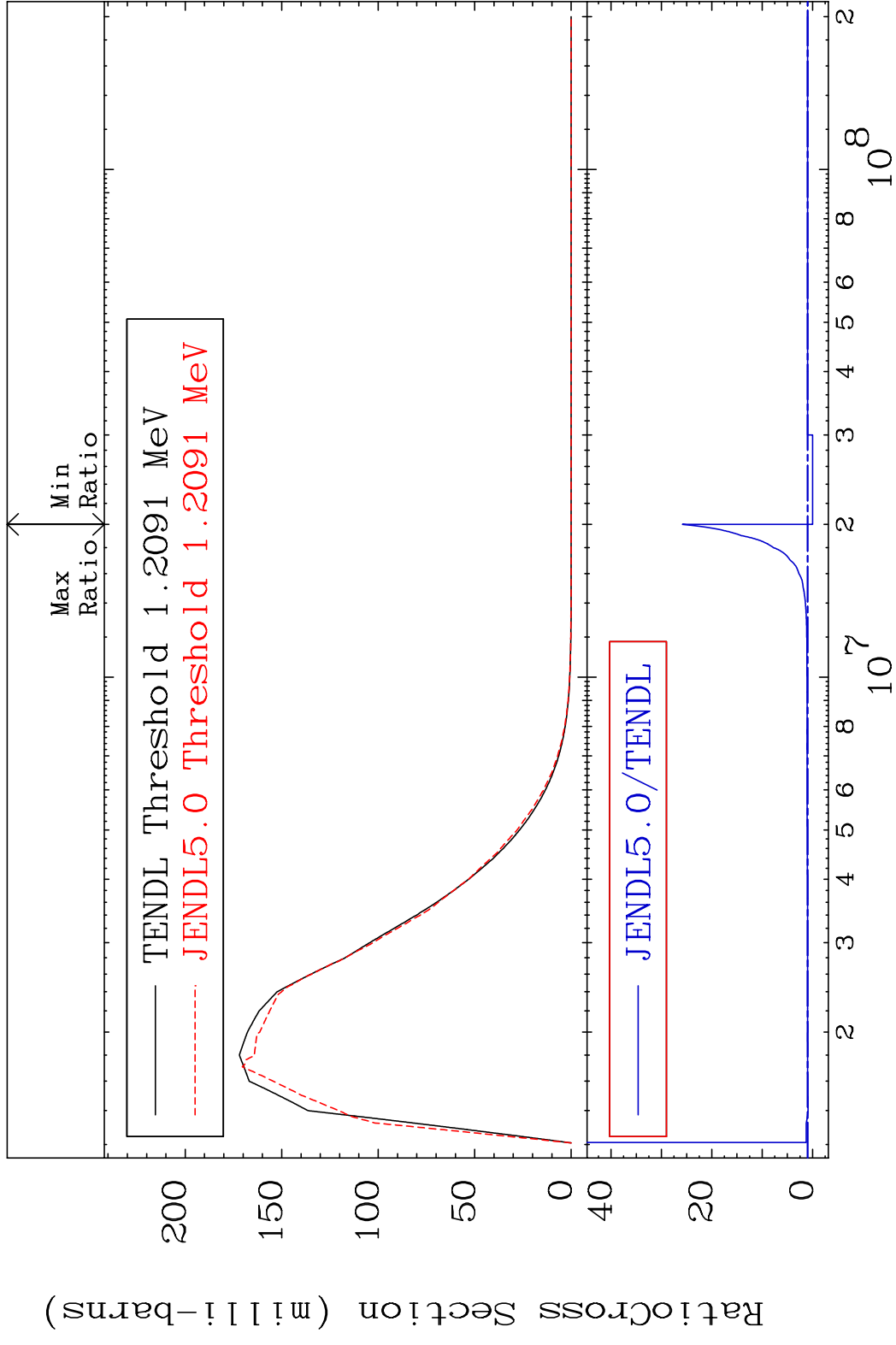
12 Incident Energy (eV) 28-Ni-59

MAT 2828 MT= 53 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 3615. %

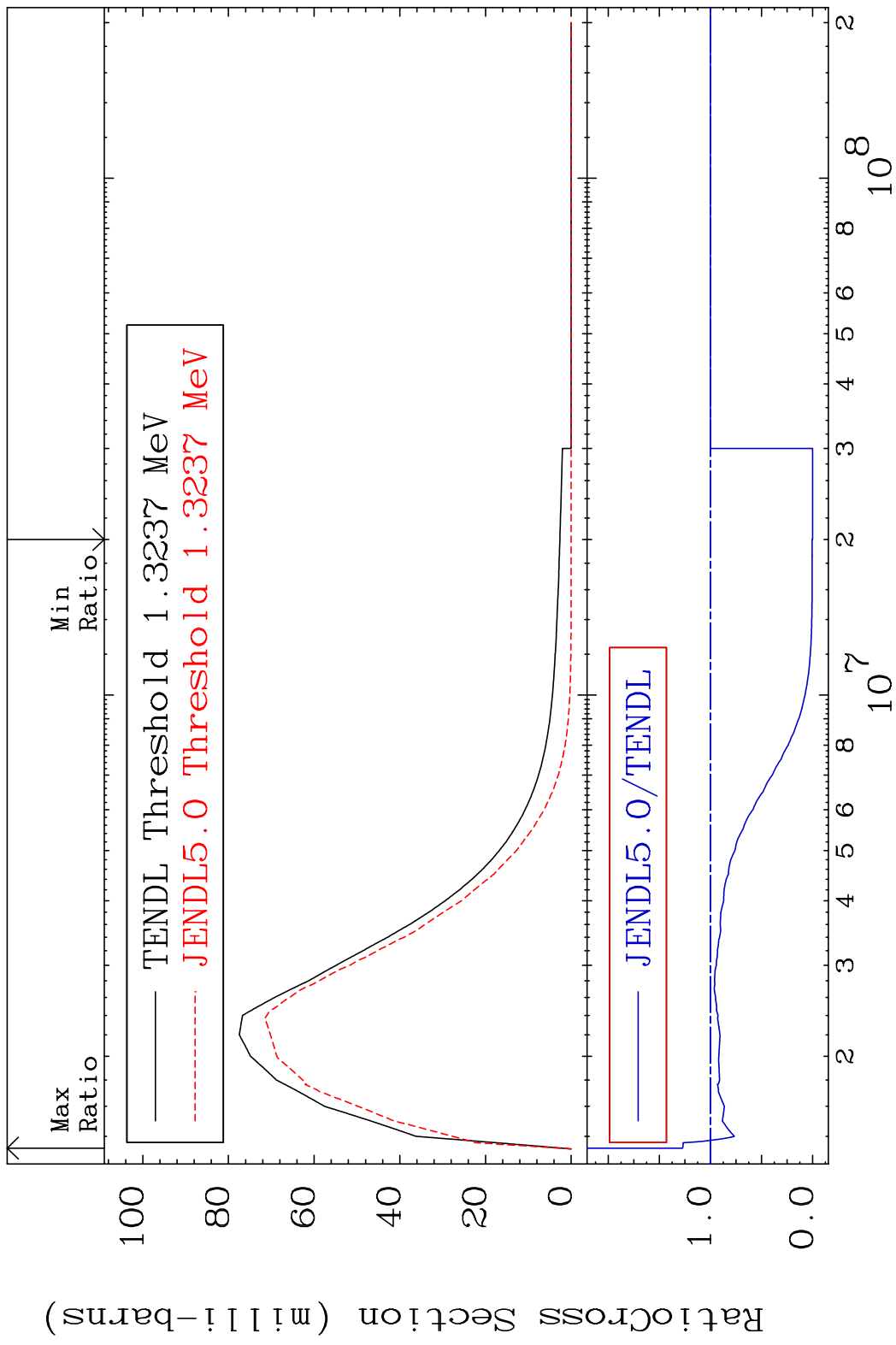


13 Incident Energy (eV) 28-Ni-59

MAT 2828 MT= 54 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 2485. %

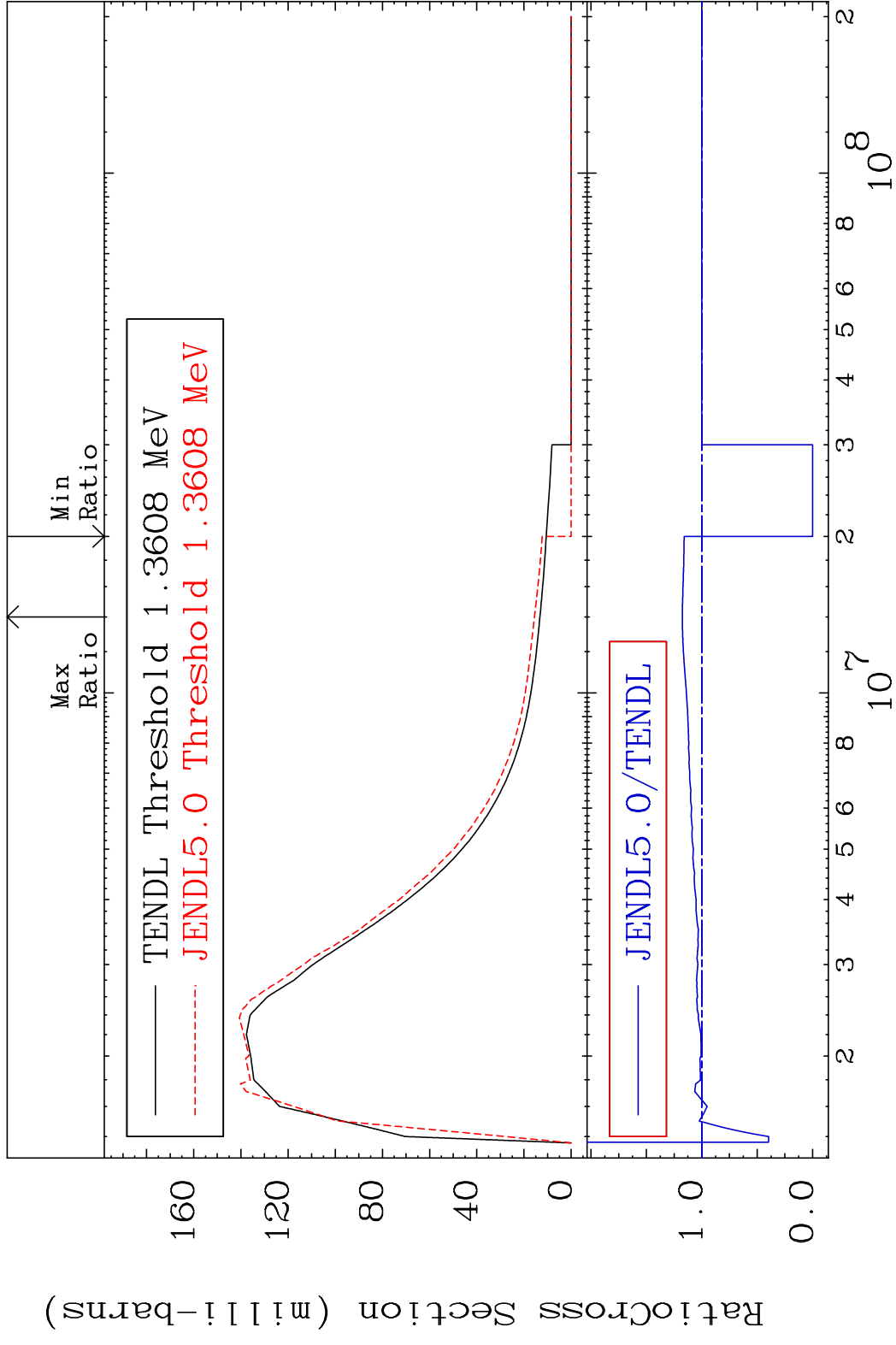


MAT 2828 MT= 55 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 27.50 %

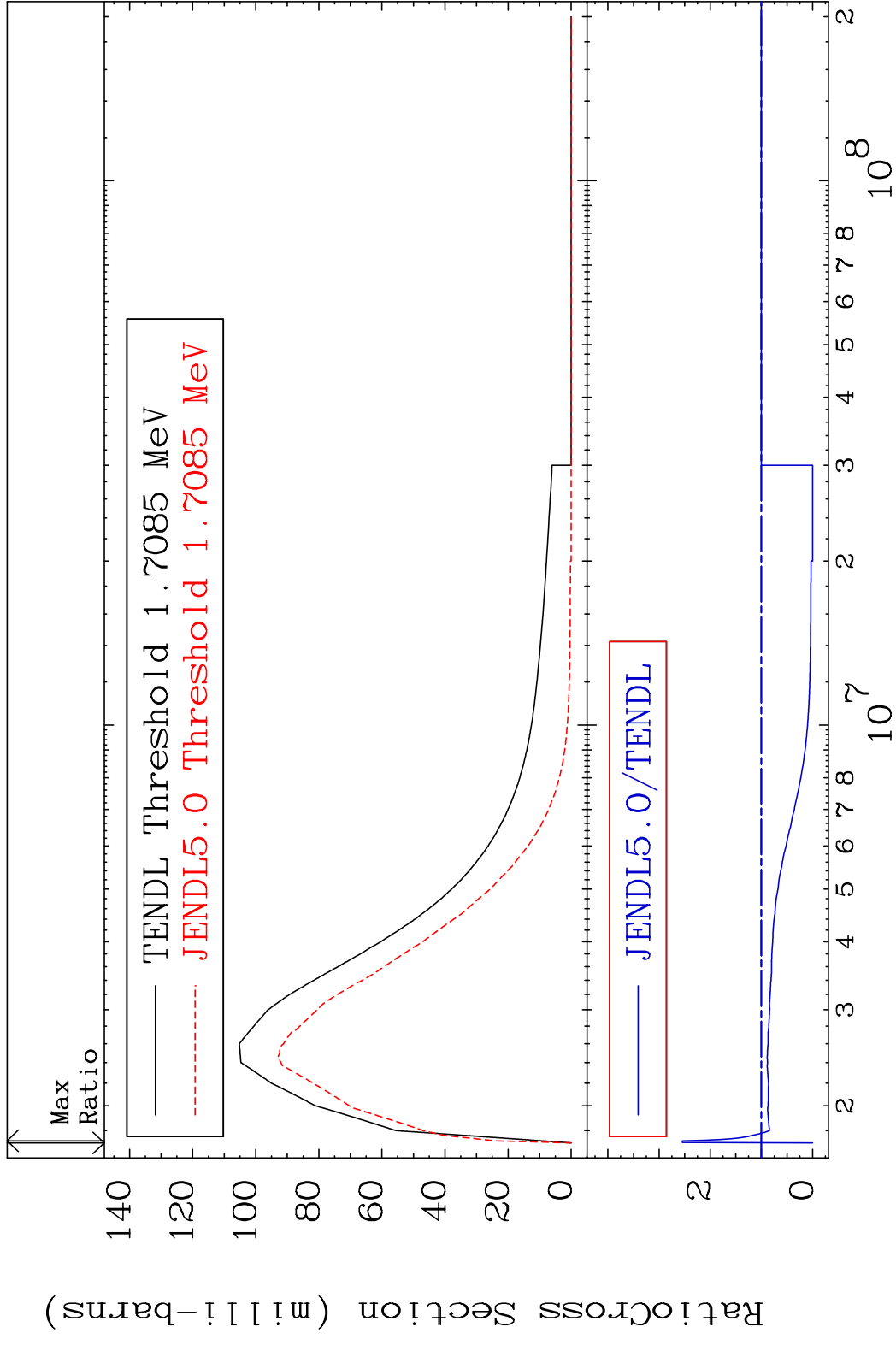


15 28-Ni-59

MAT 2828 MT= 56 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 17.53 %

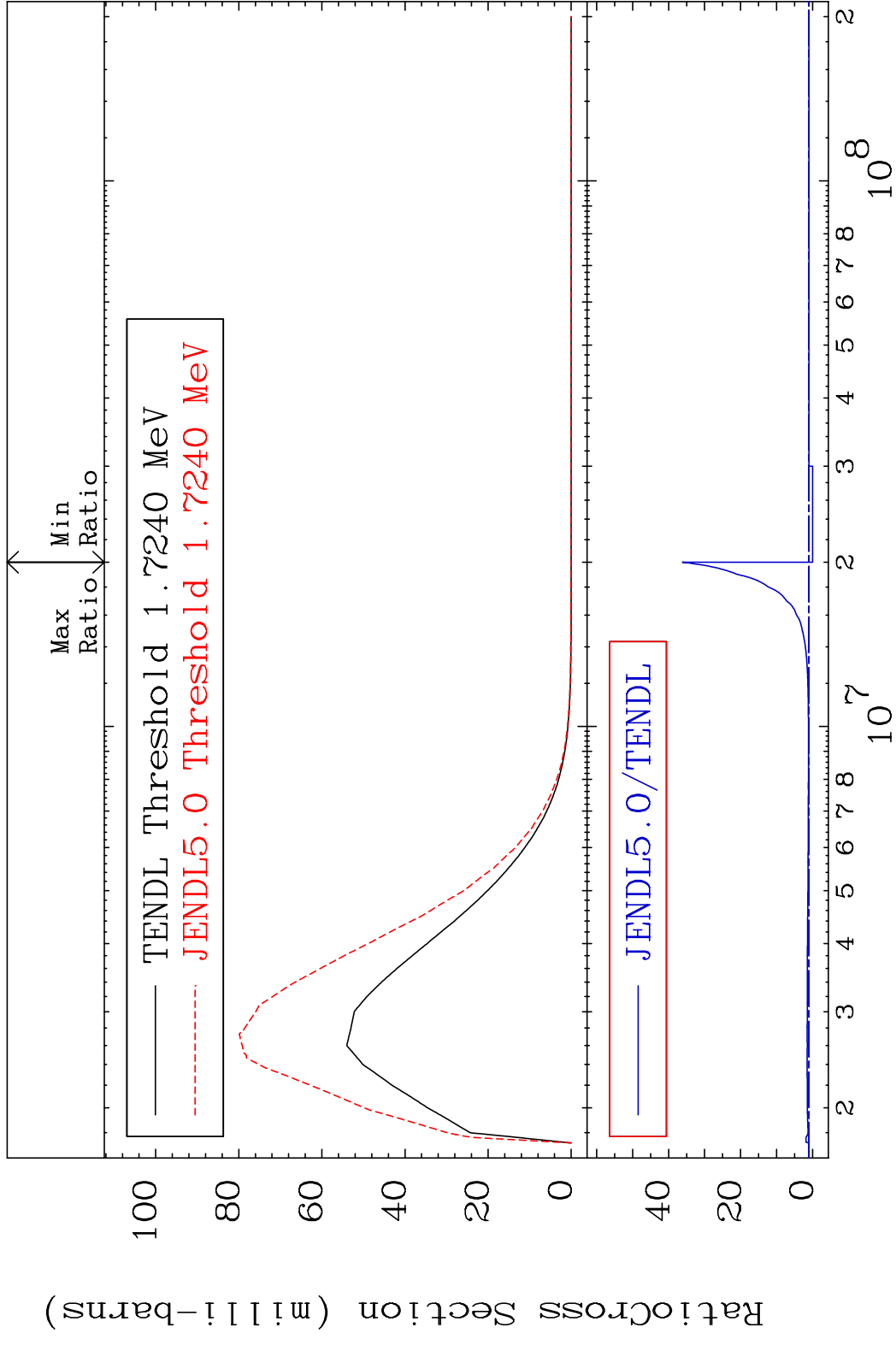


MAT 2828 MT= 57 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 154.5 %



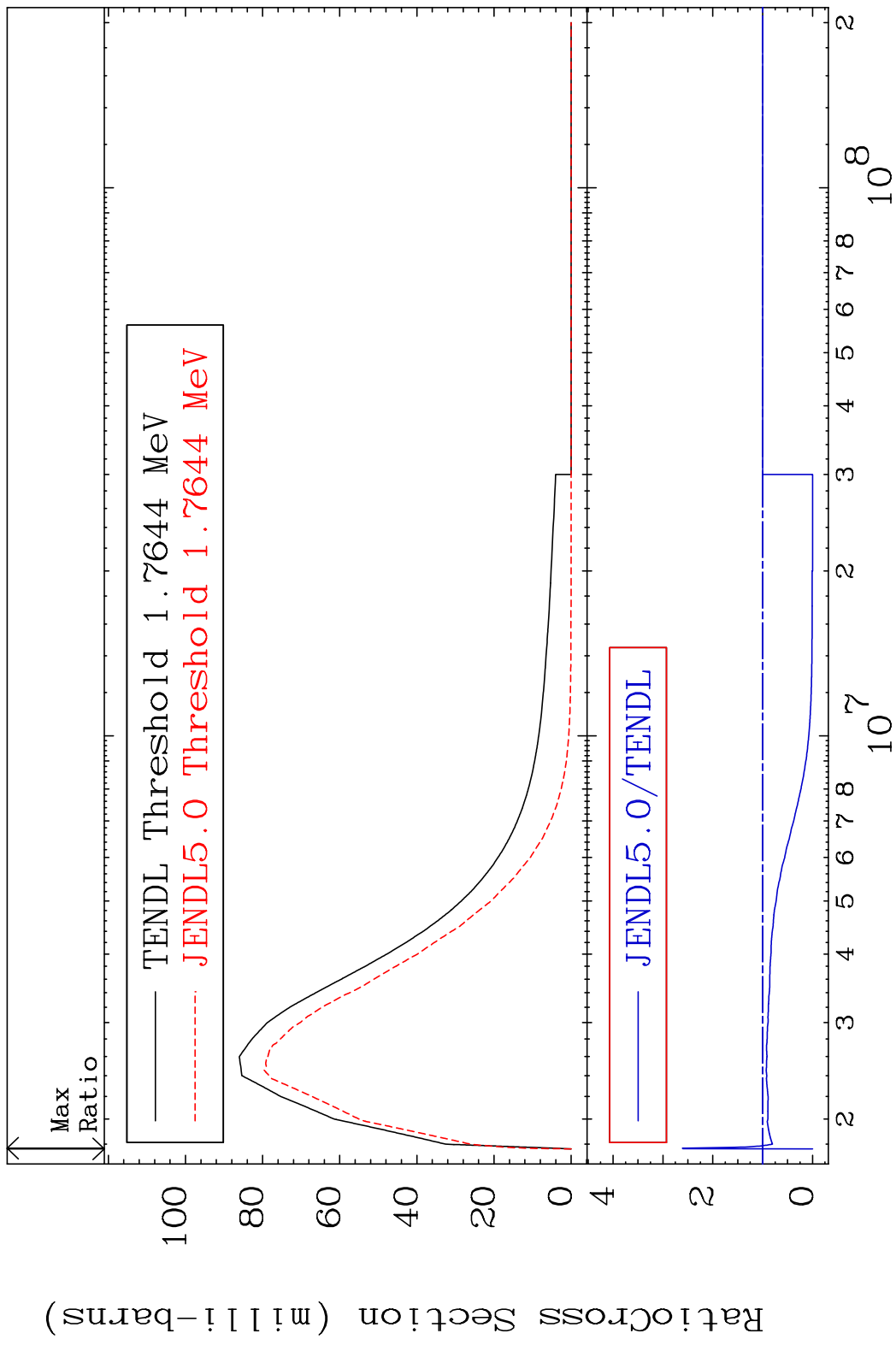
17 17 Incident Energy (eV) 28-Ni-59

MAT 2828 MT= 58 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 3519. %

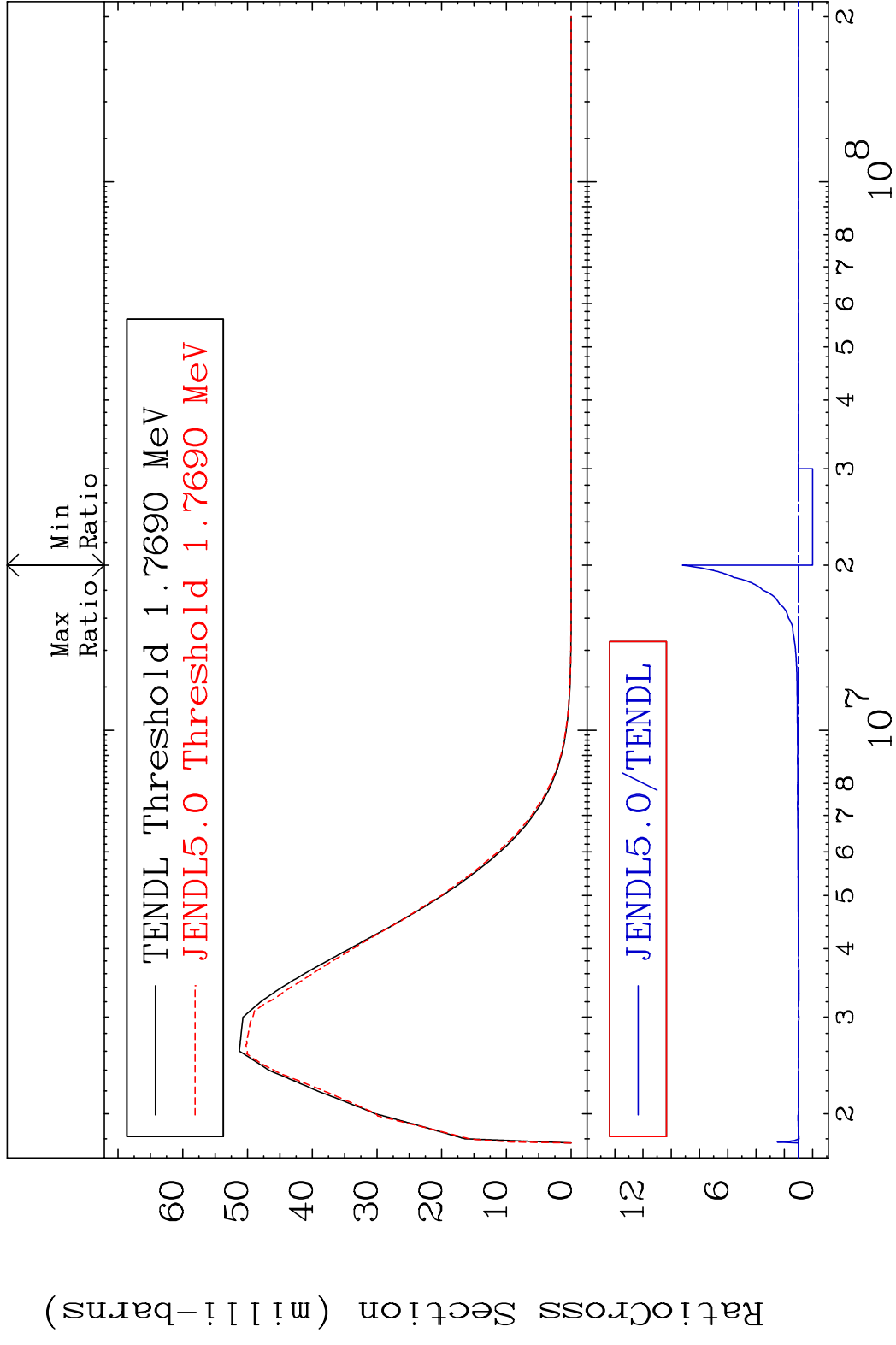


18 Incident Energy (eV) 28-Ni-59

MAT 2828 MT= 59 (n,n') Level 28-Ni-59
 Cross Section -100.0 To 161.1 %

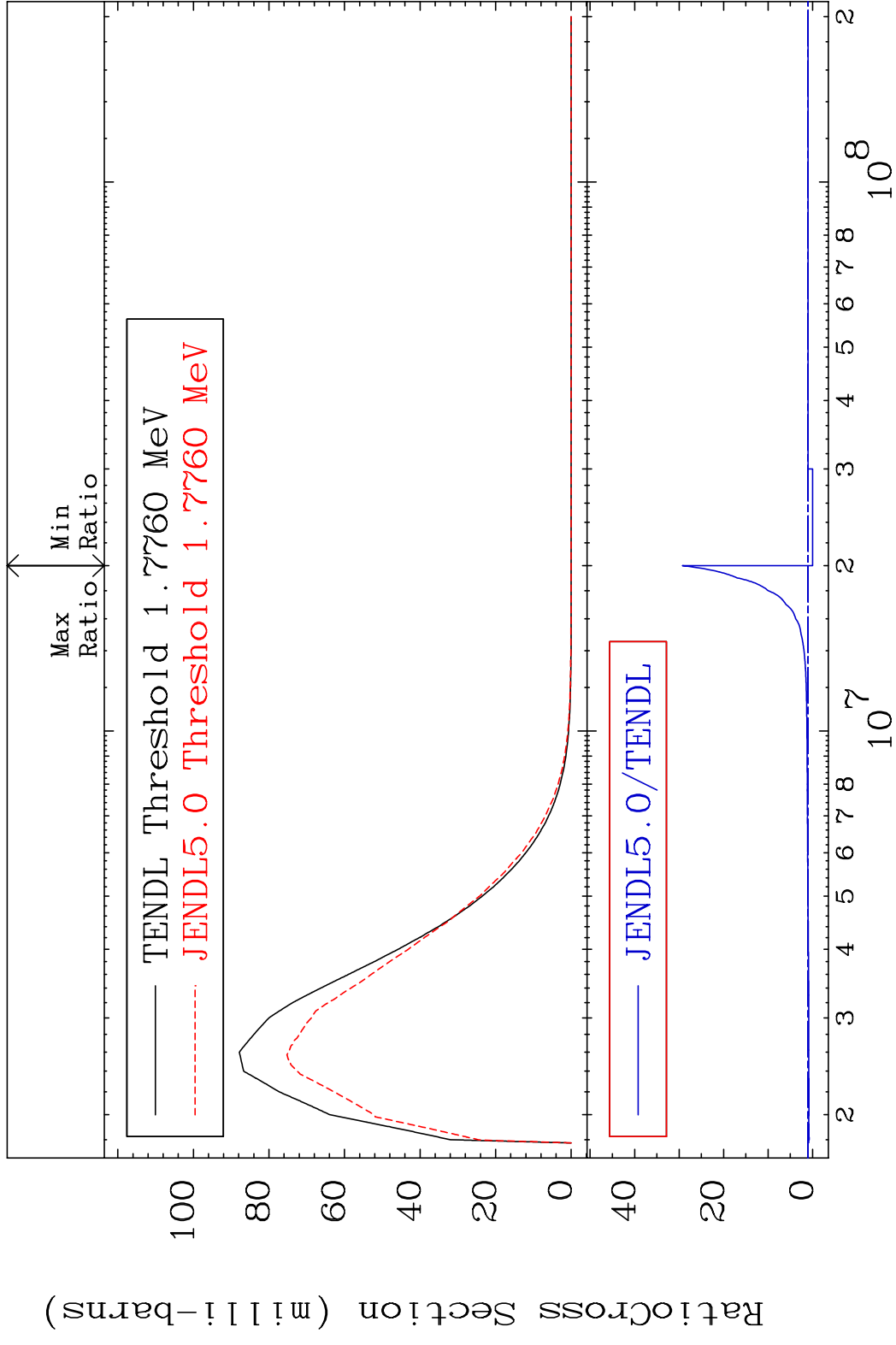


MAT 2828 MT= 60 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 821.7 %

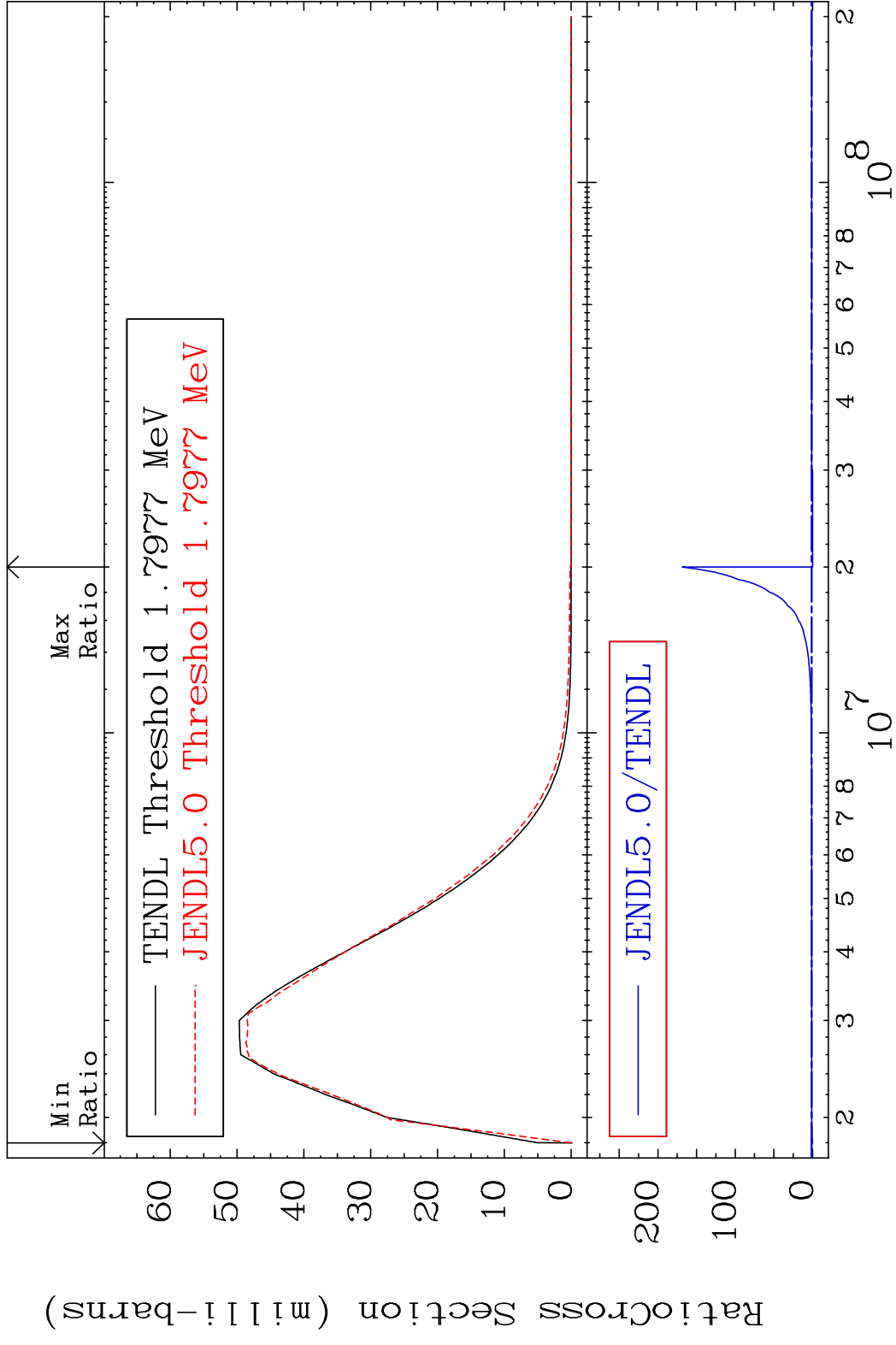


20 28-Ni-59

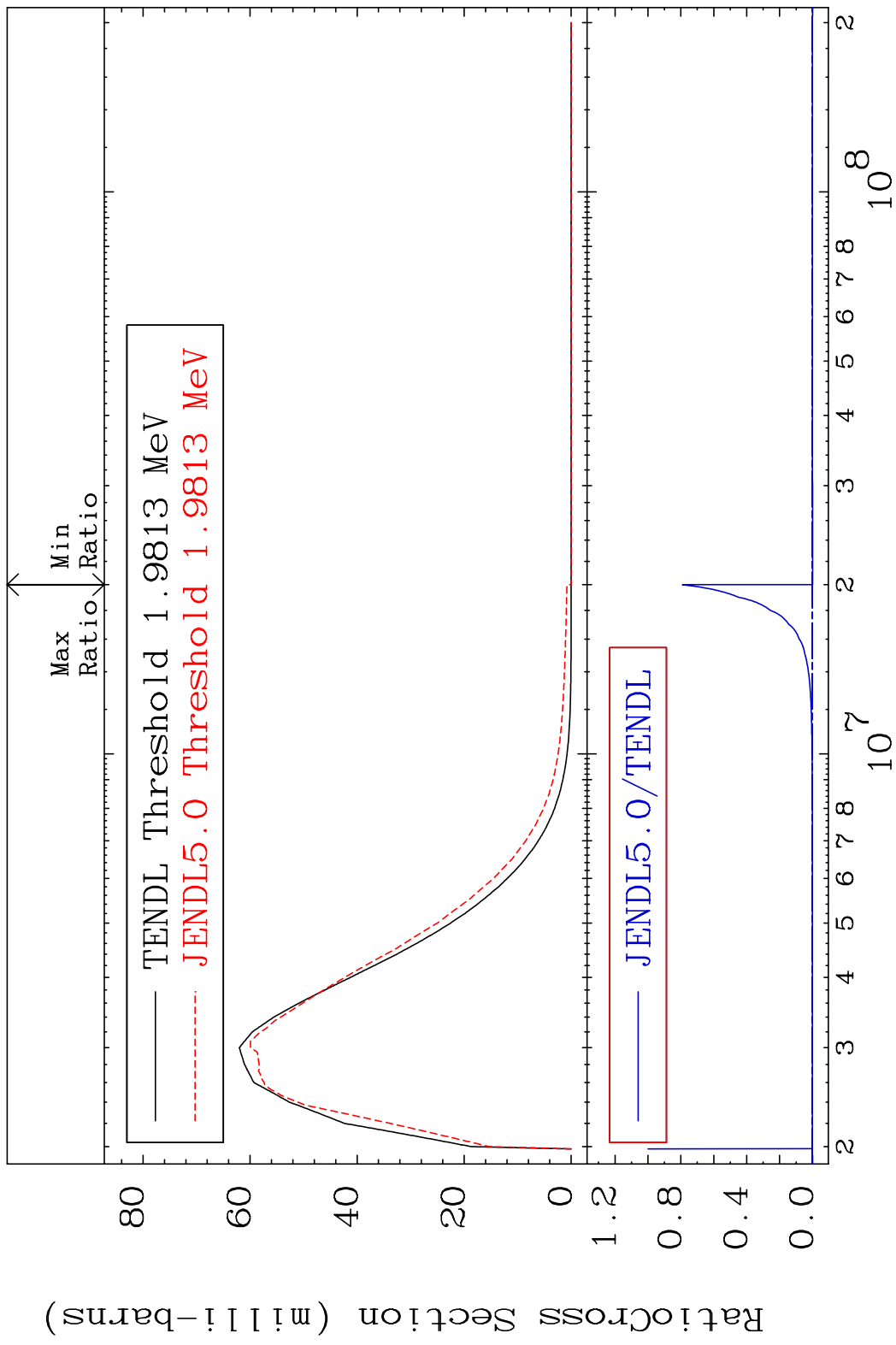
MAT 2828 MT= 61 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 2827. %



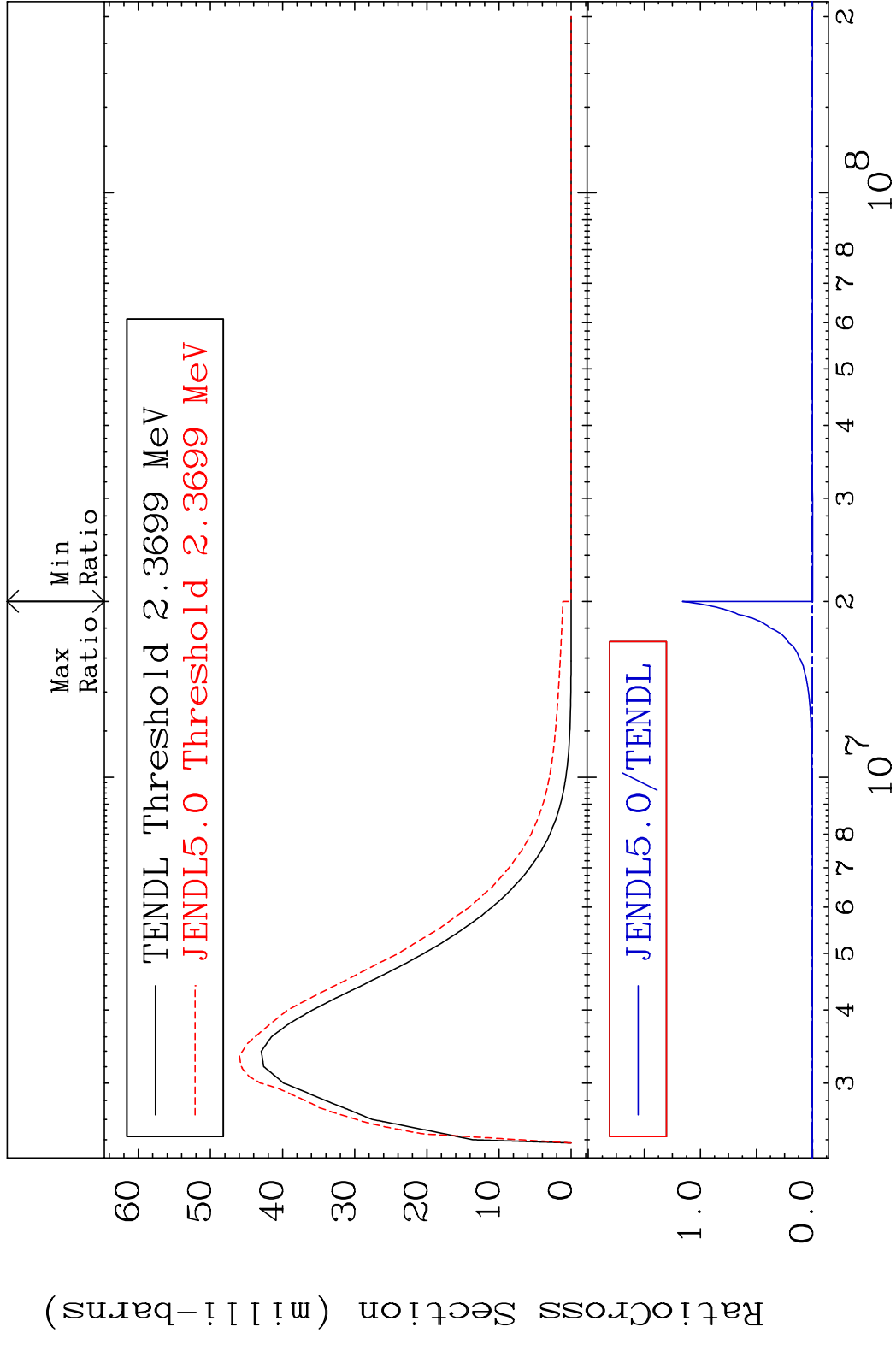
MAT 2828 MT= 62 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 9999. %



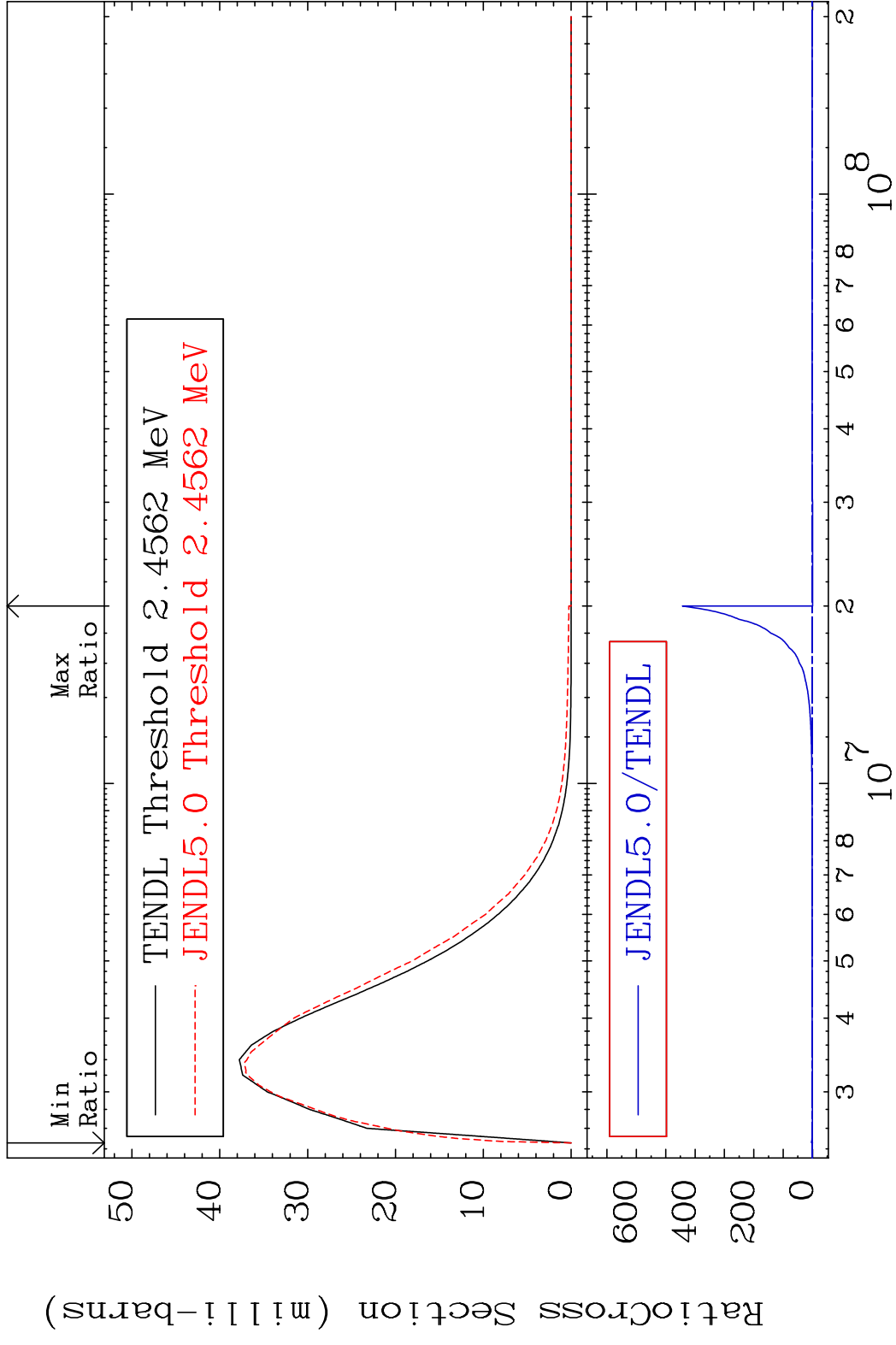
MAT 2828 MT= 63 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 9999. %



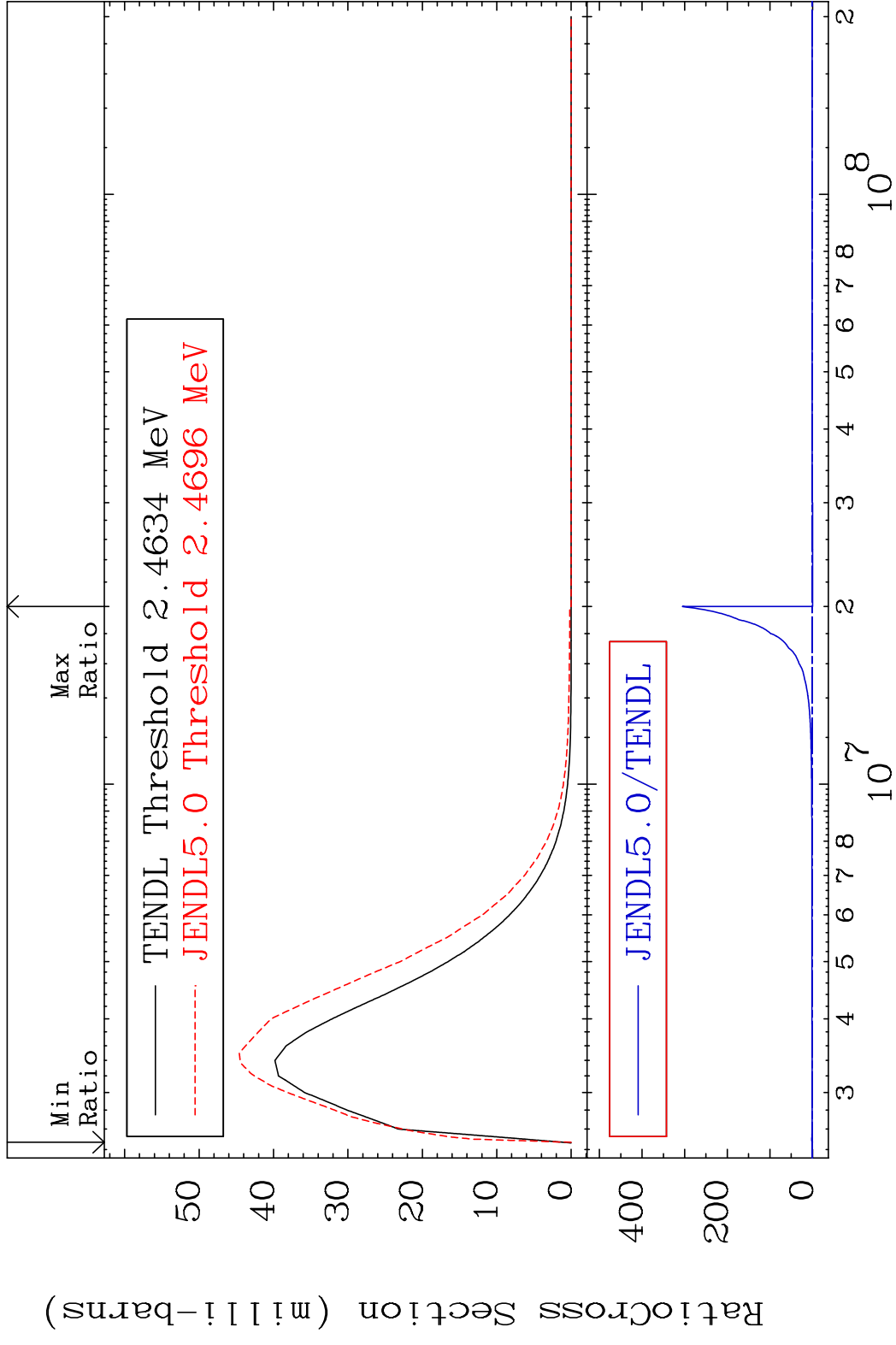
MAT 2828 MT= 64 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 9999. %



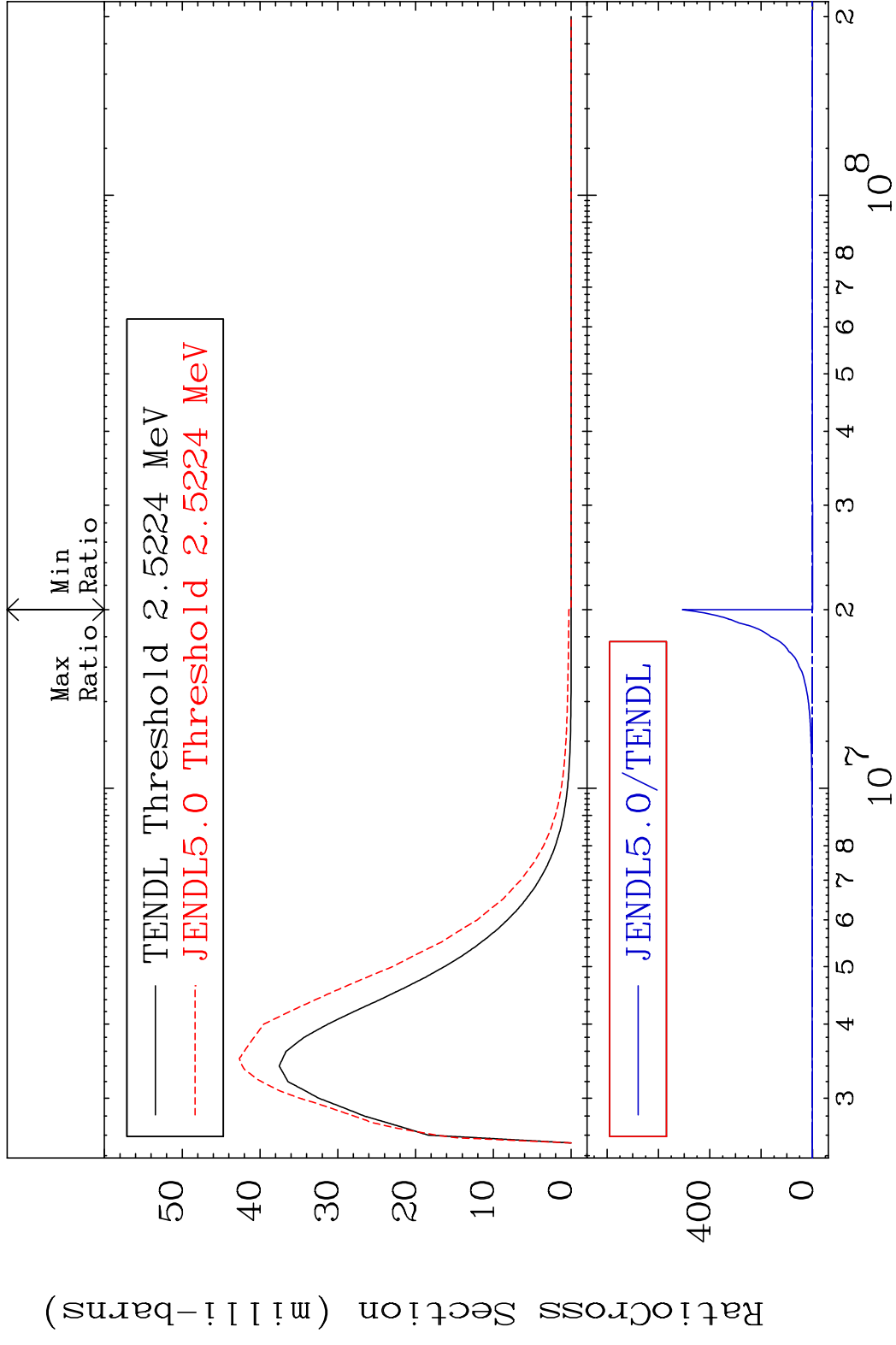
MAT 2828 MT= 65 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 9999. %



MAT 2828 MT= 66 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 9999. %

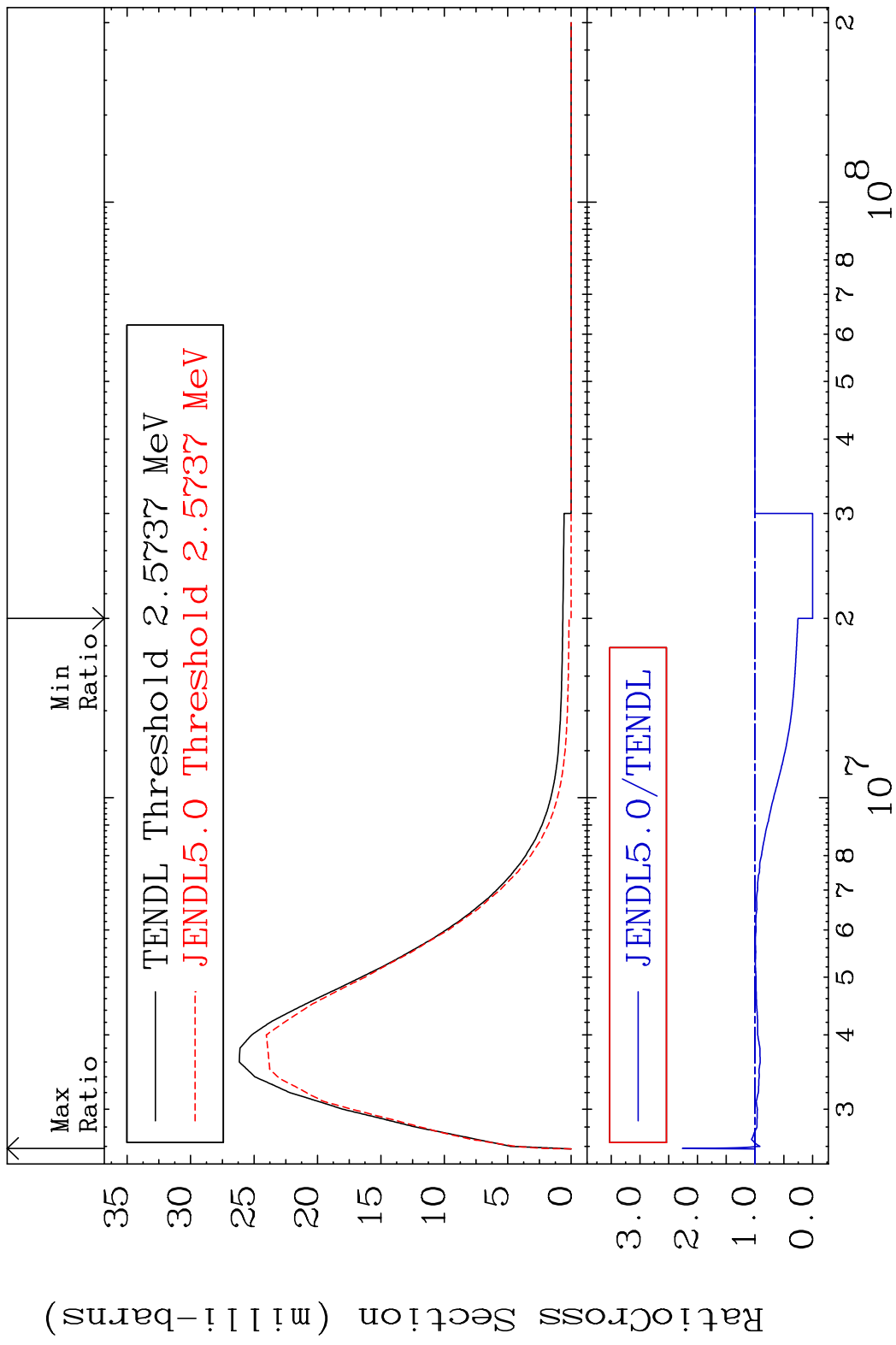


MAT 2828 MT= 67 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 9999. %

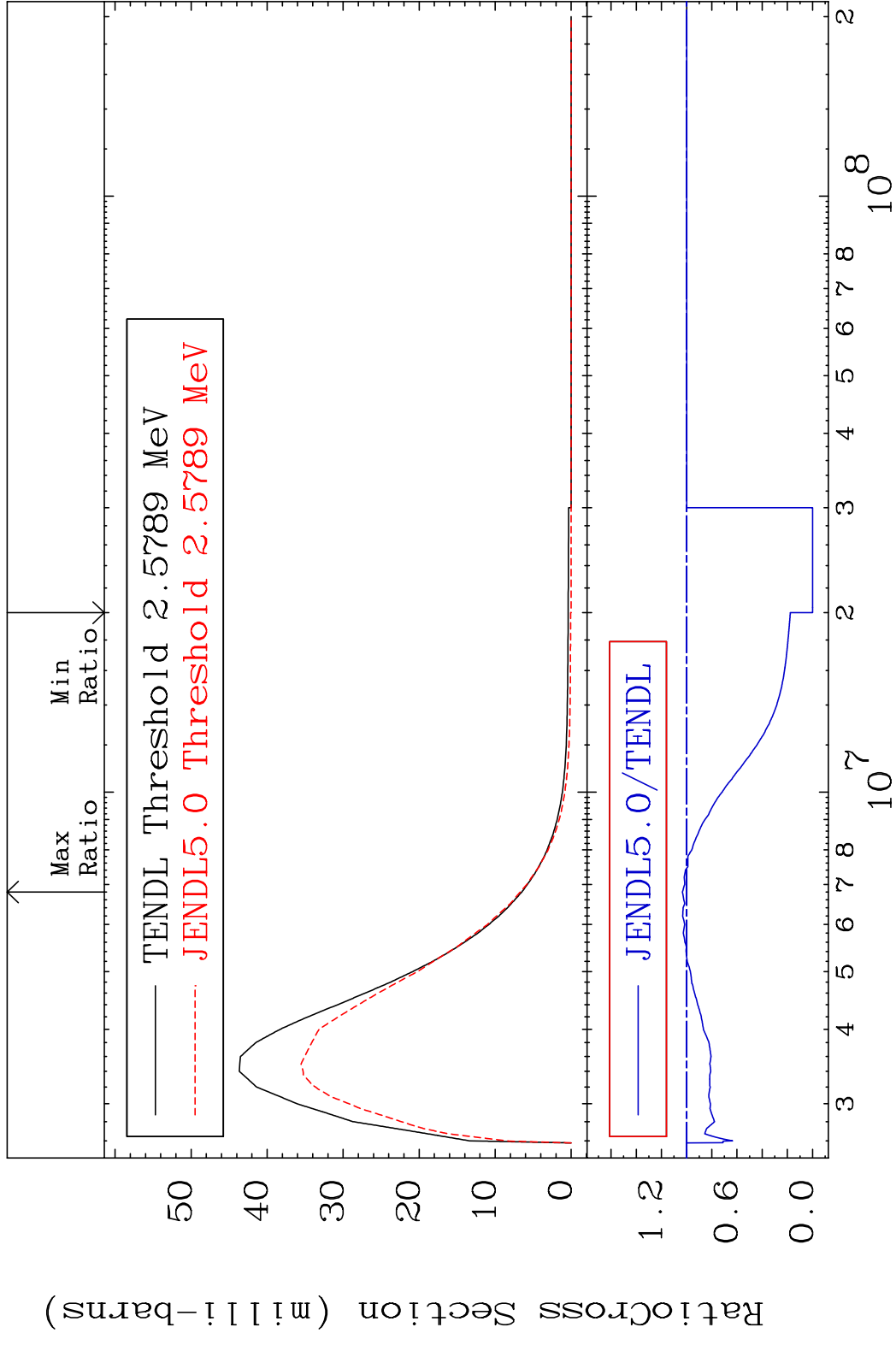


27 28-Ni-59

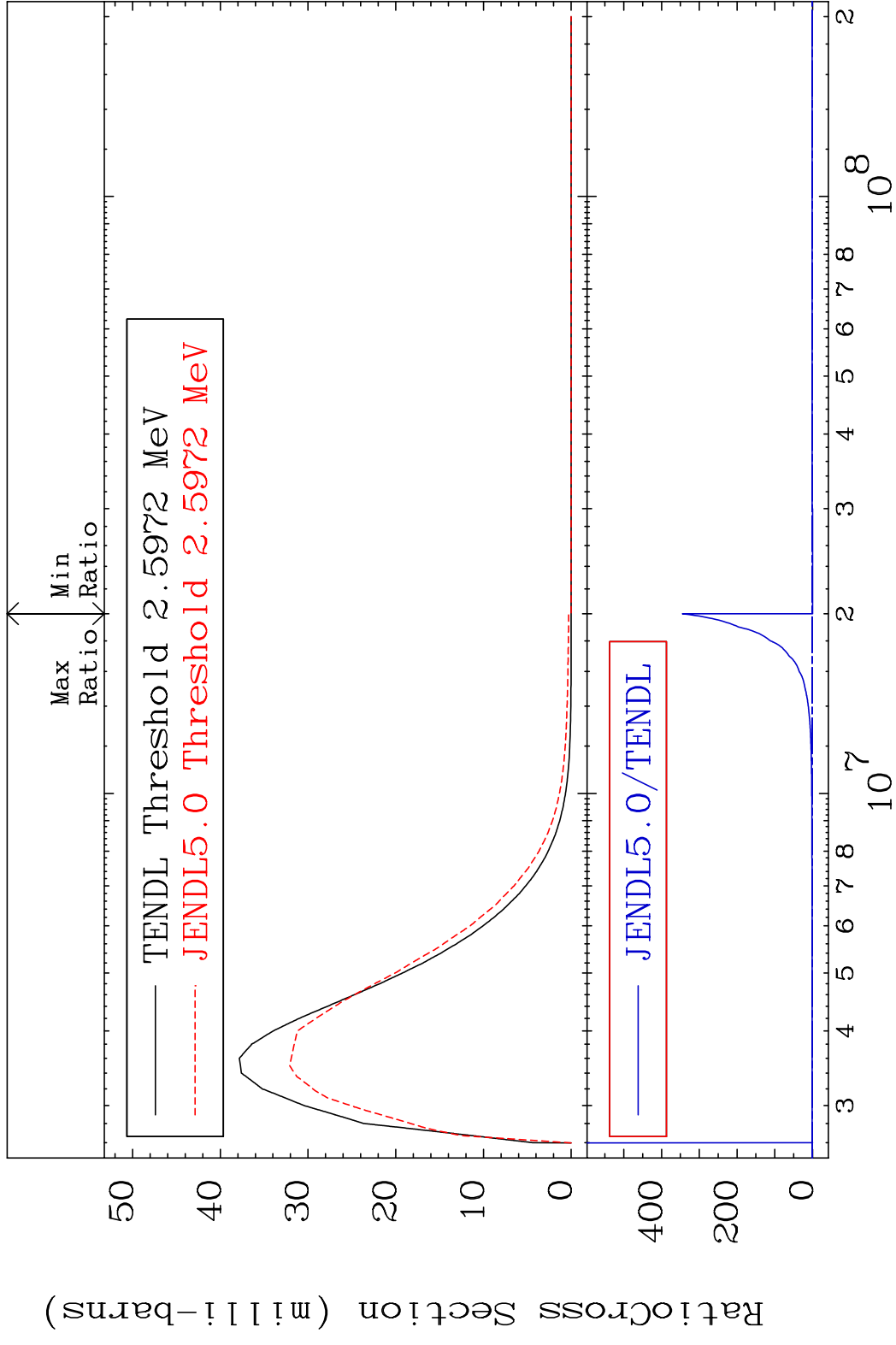
MAT 2828 MT= 68 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 126.3 %



MAT 2828 MT= 69 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 3.385 %

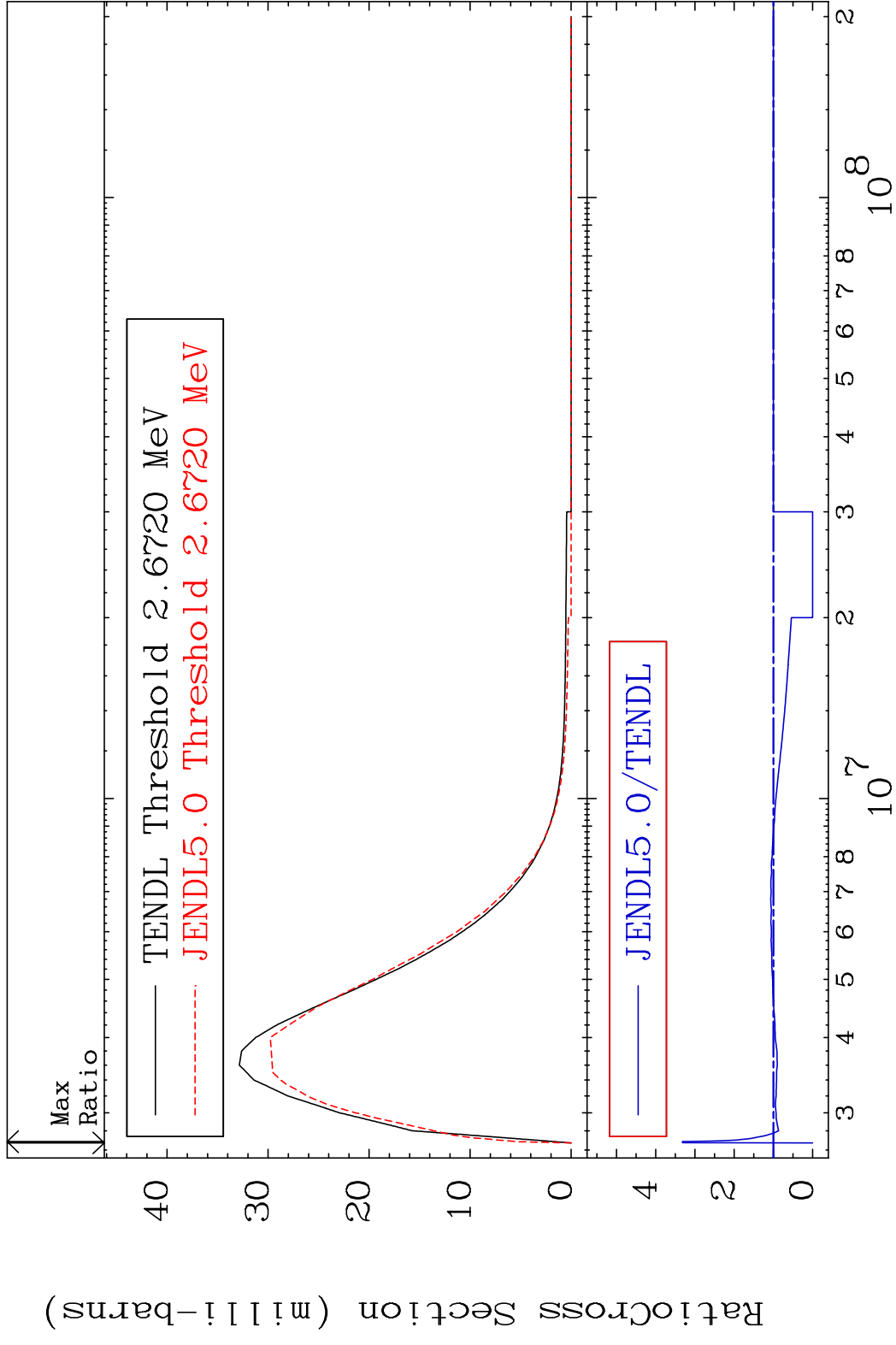


MAT 2828 MT= 70 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 9999. %

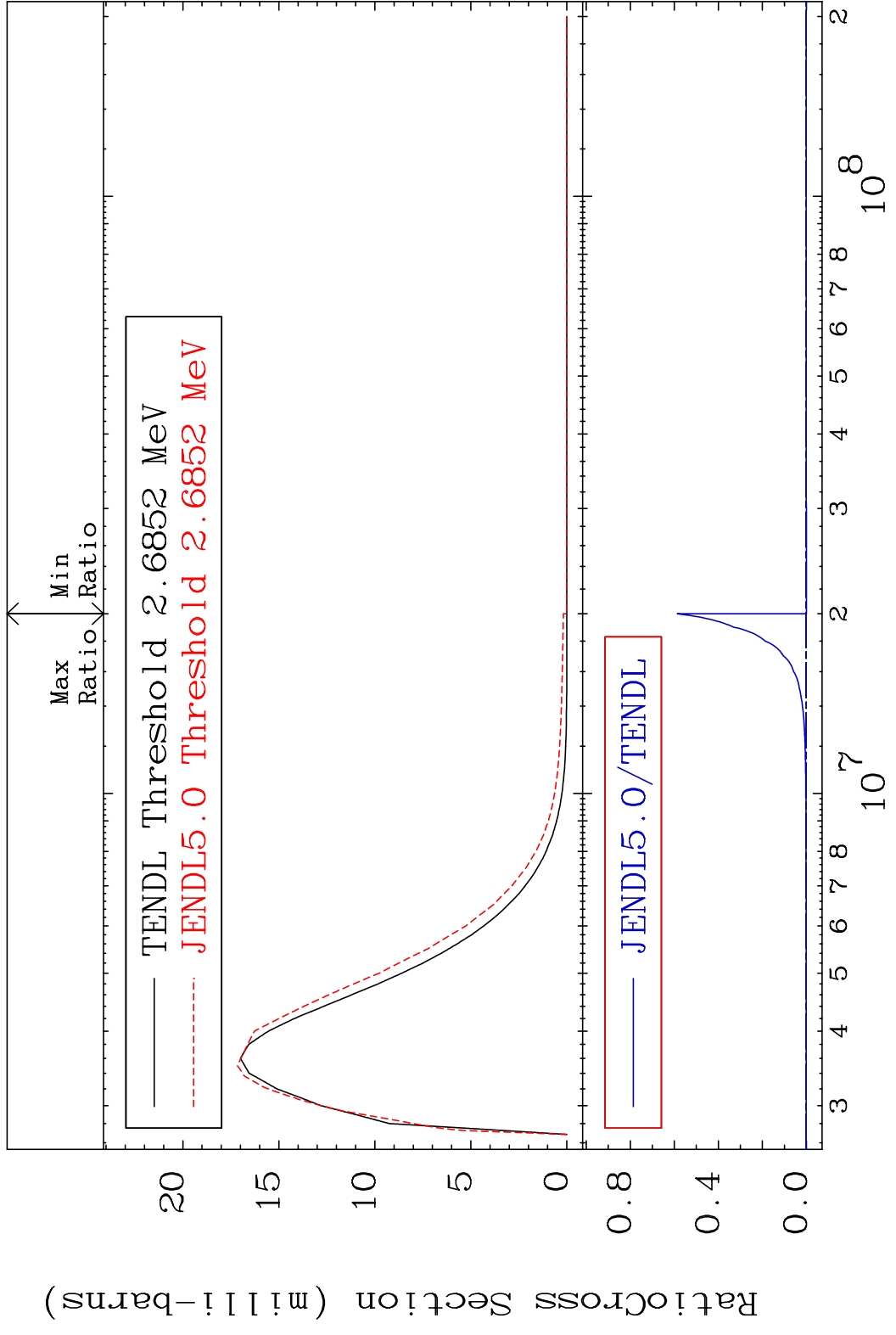


30 30 Incident Energy (eV) 28-Ni-59

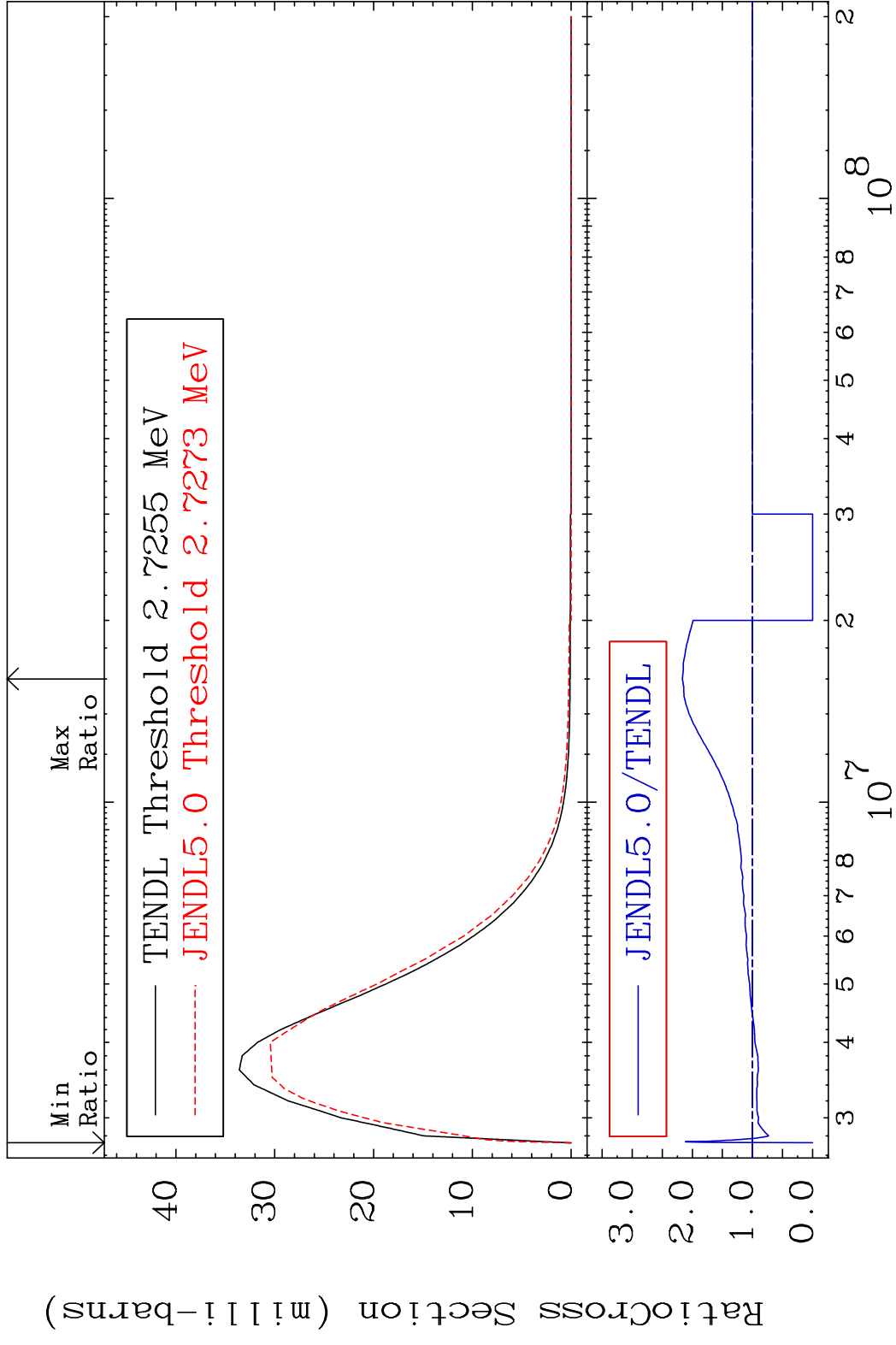
MAT 2828 MT= 71 (n,n') Level 28-Ni-59
 Cross Section -100.0 To 232.2 %



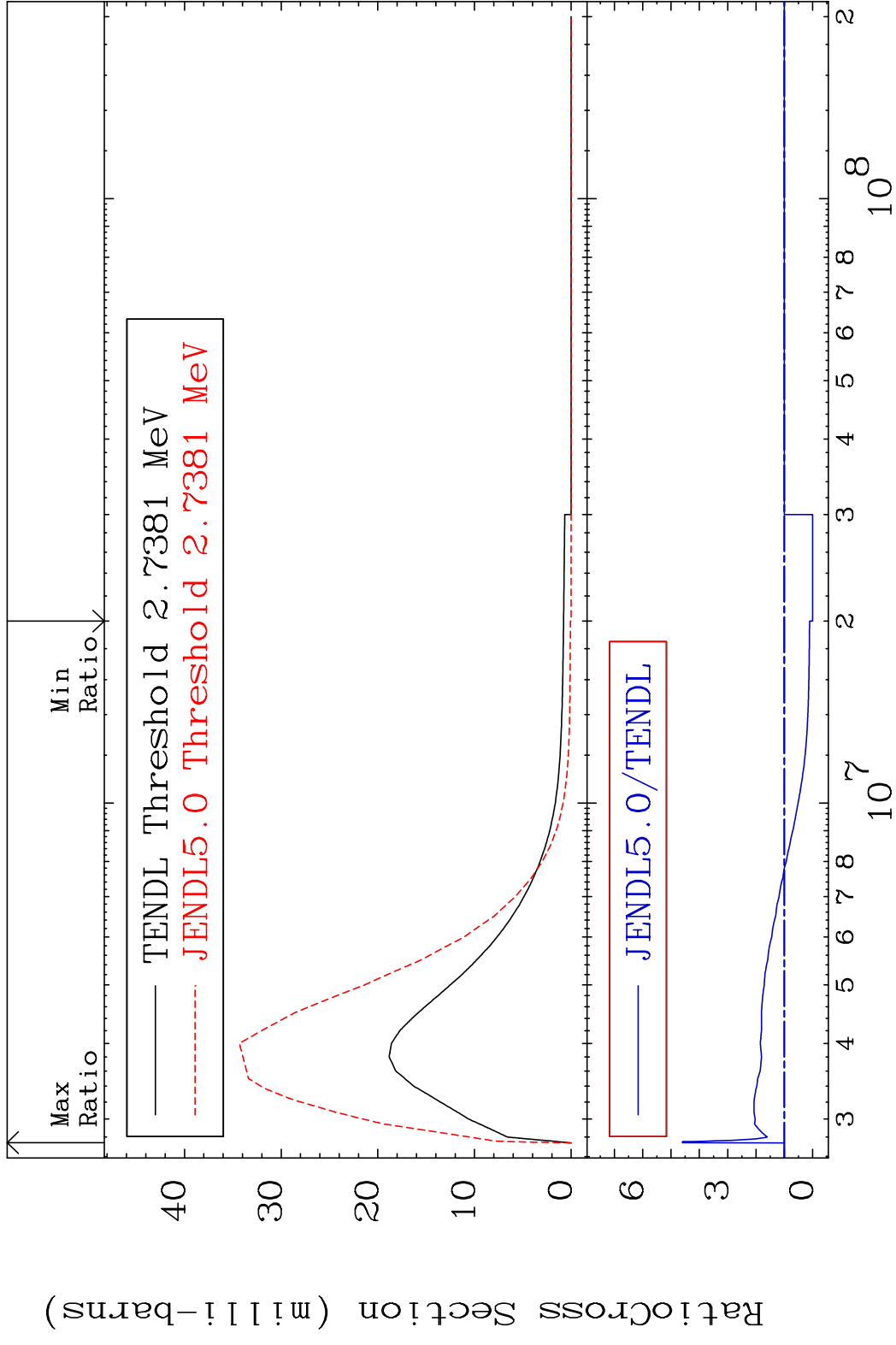
MAT 2828 MT= 72 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 9999. %



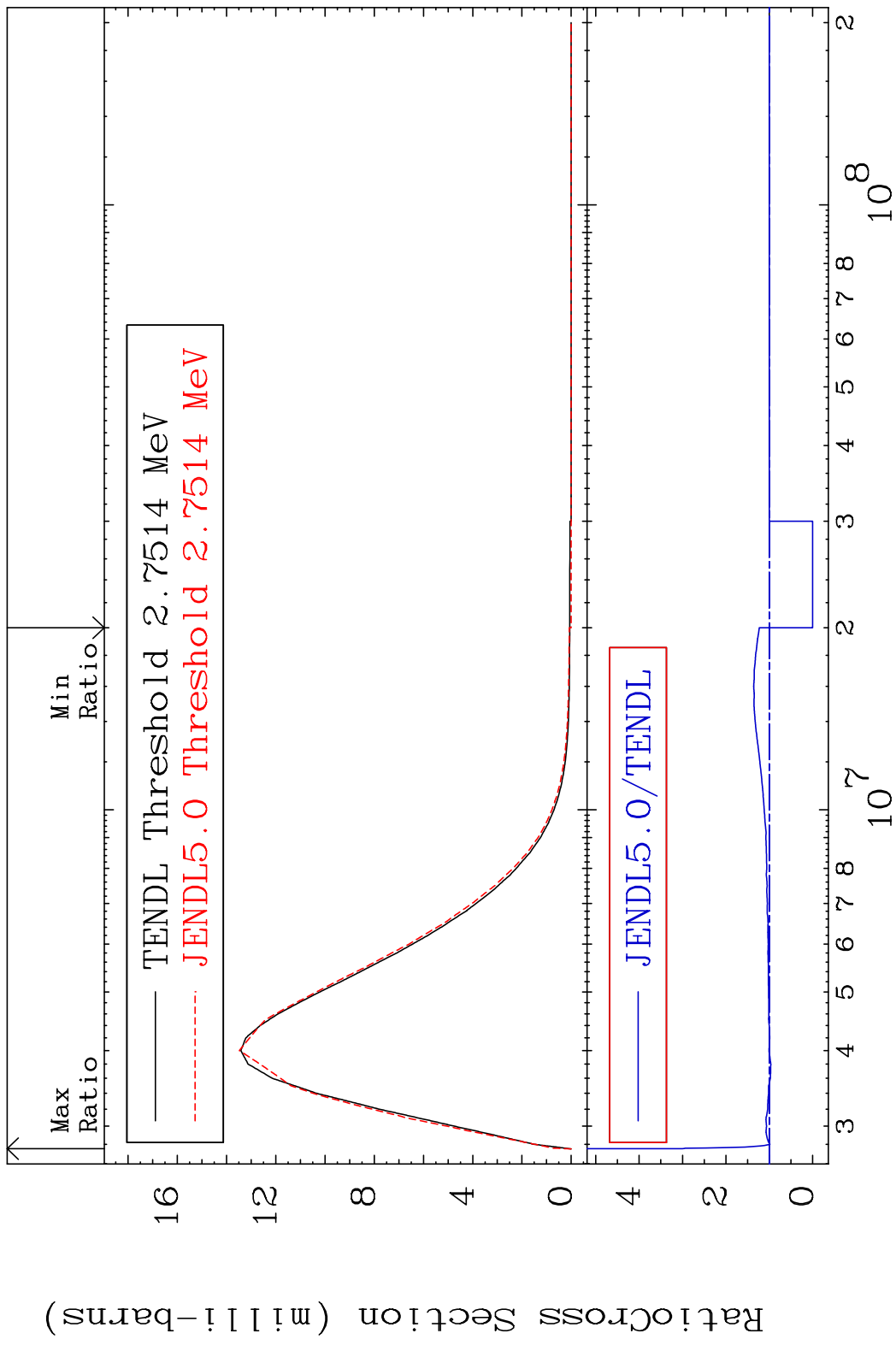
MAT 2828 MT= 73 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 116.7 %



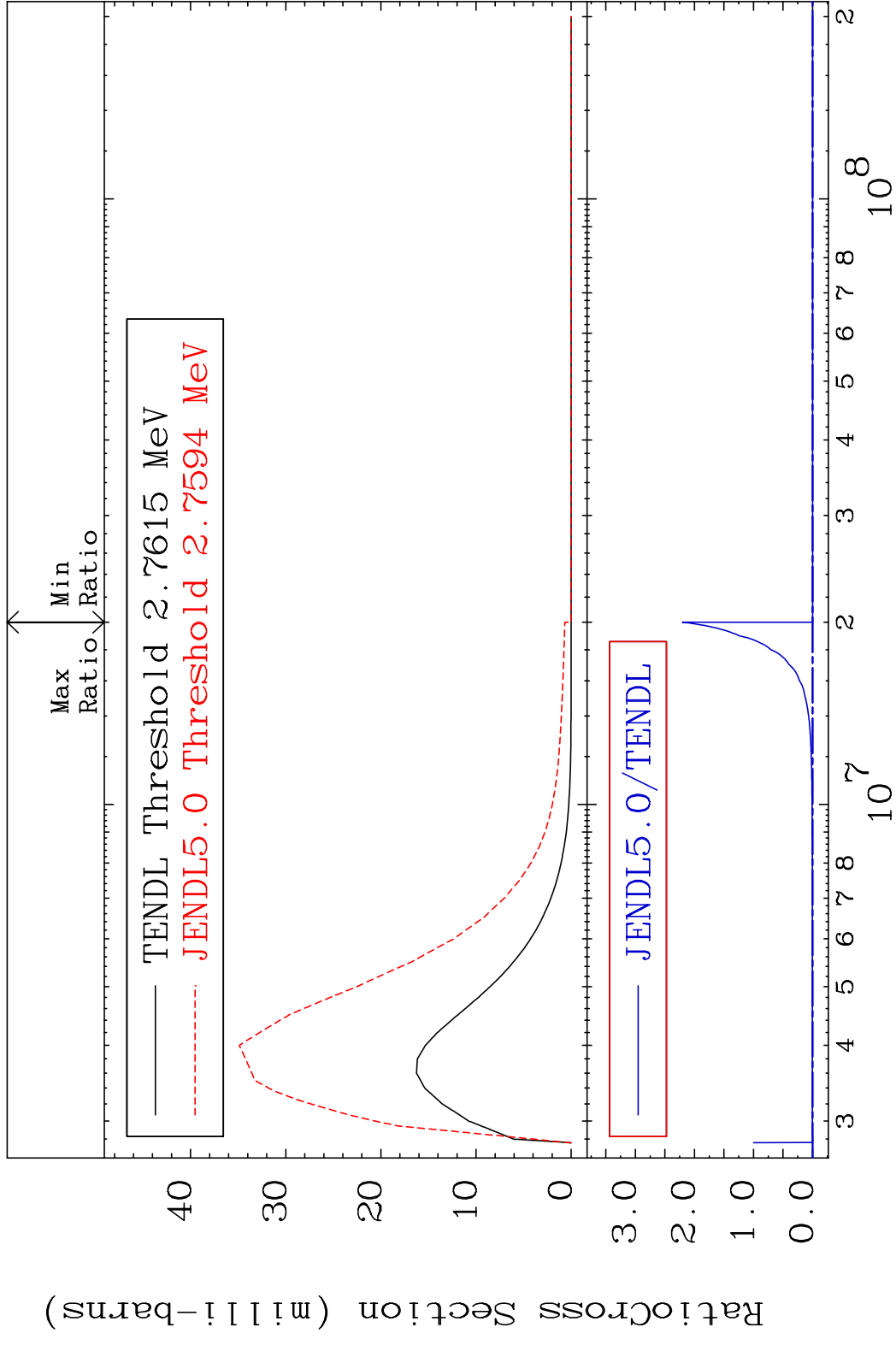
MAT 2828 MT= 74 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 360.1 %



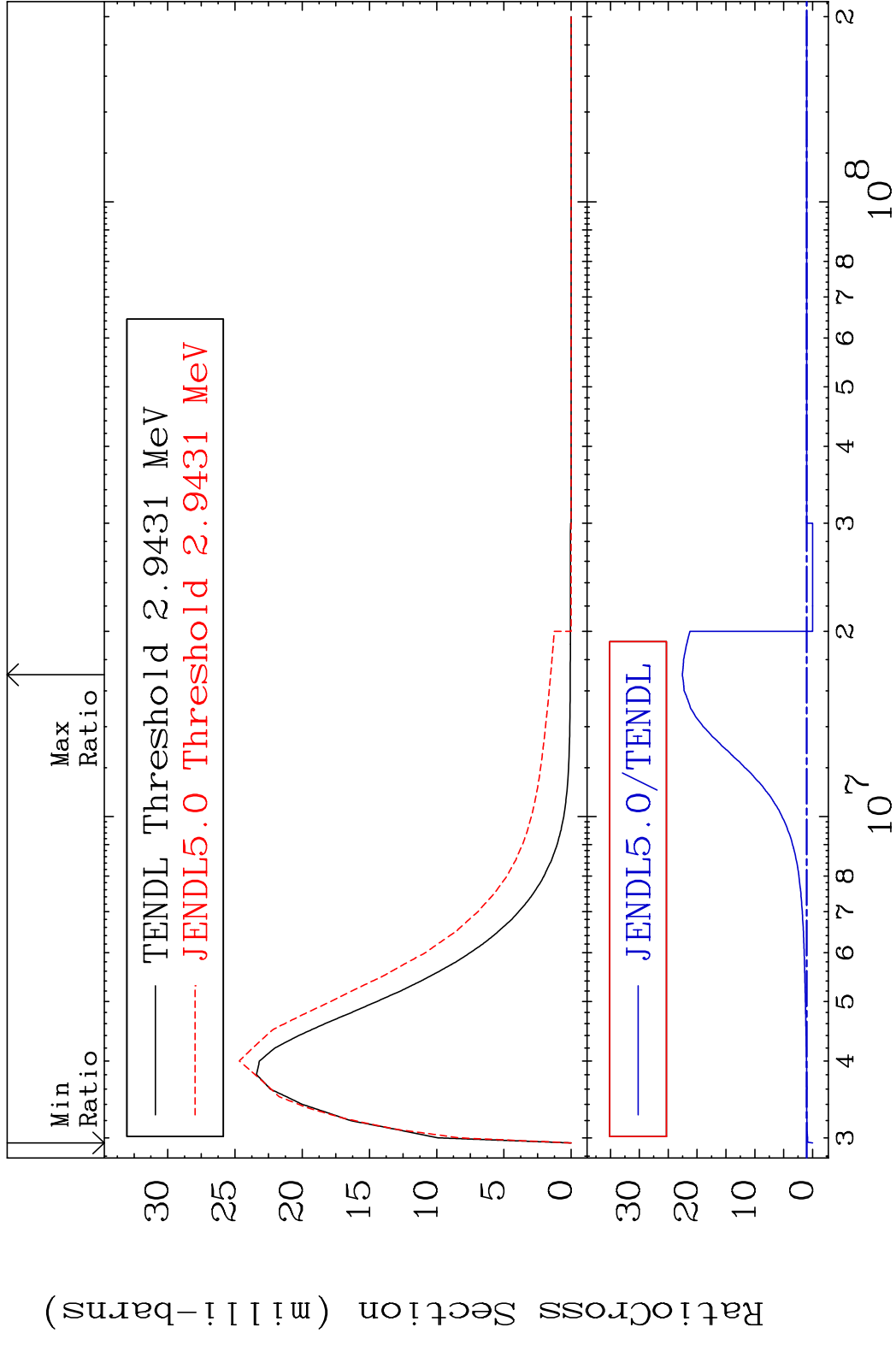
MAT 2828 MT= 75 (n,n') Level 28-Ni-59
 Cross Section -100.0 To 200.4 %



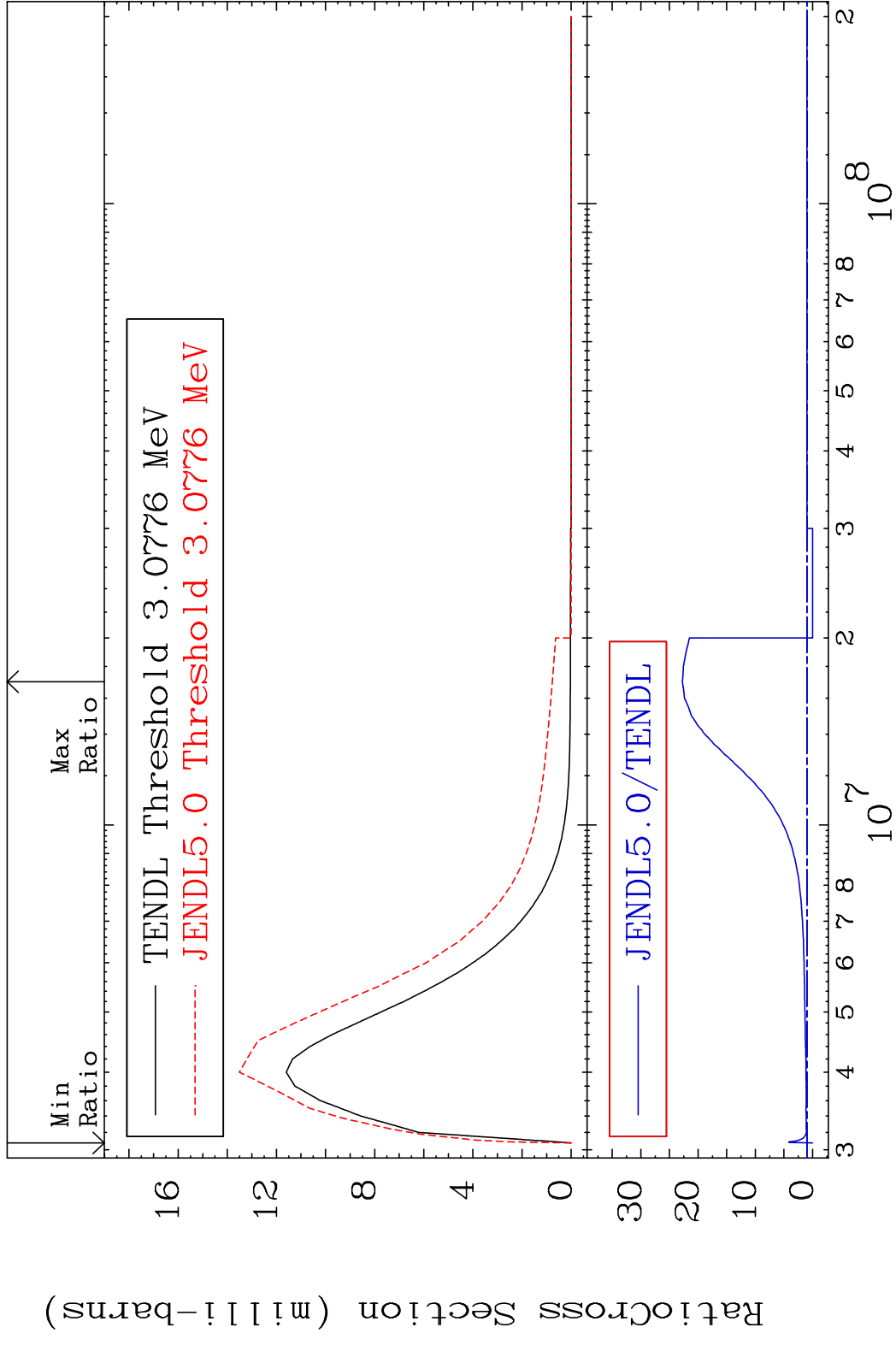
MAT 2828 MT= 76 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 9999. %



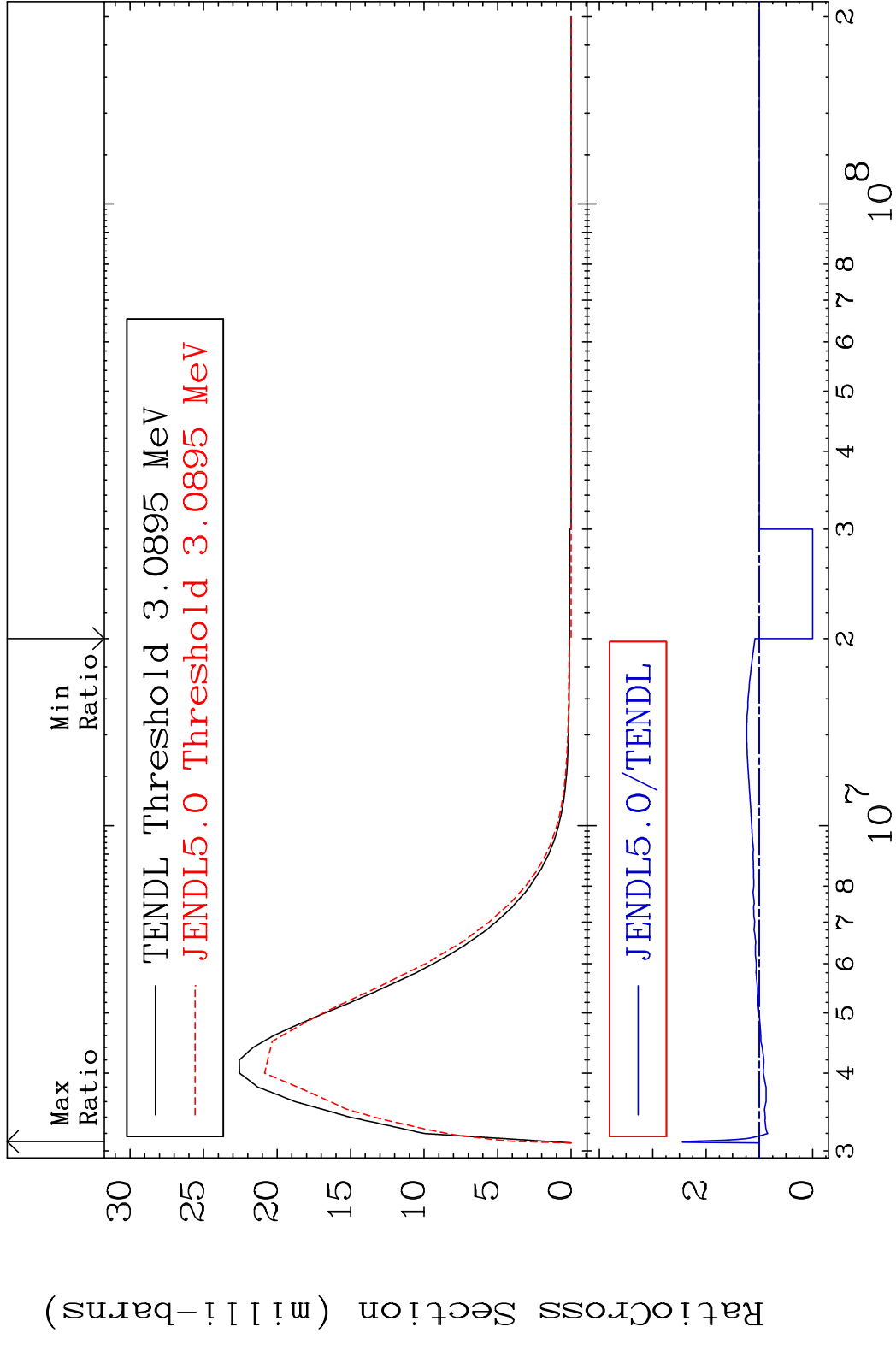
MAT 2828 MT= 77 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 2155. %



MAT 2828 MT= 78 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 2175. %

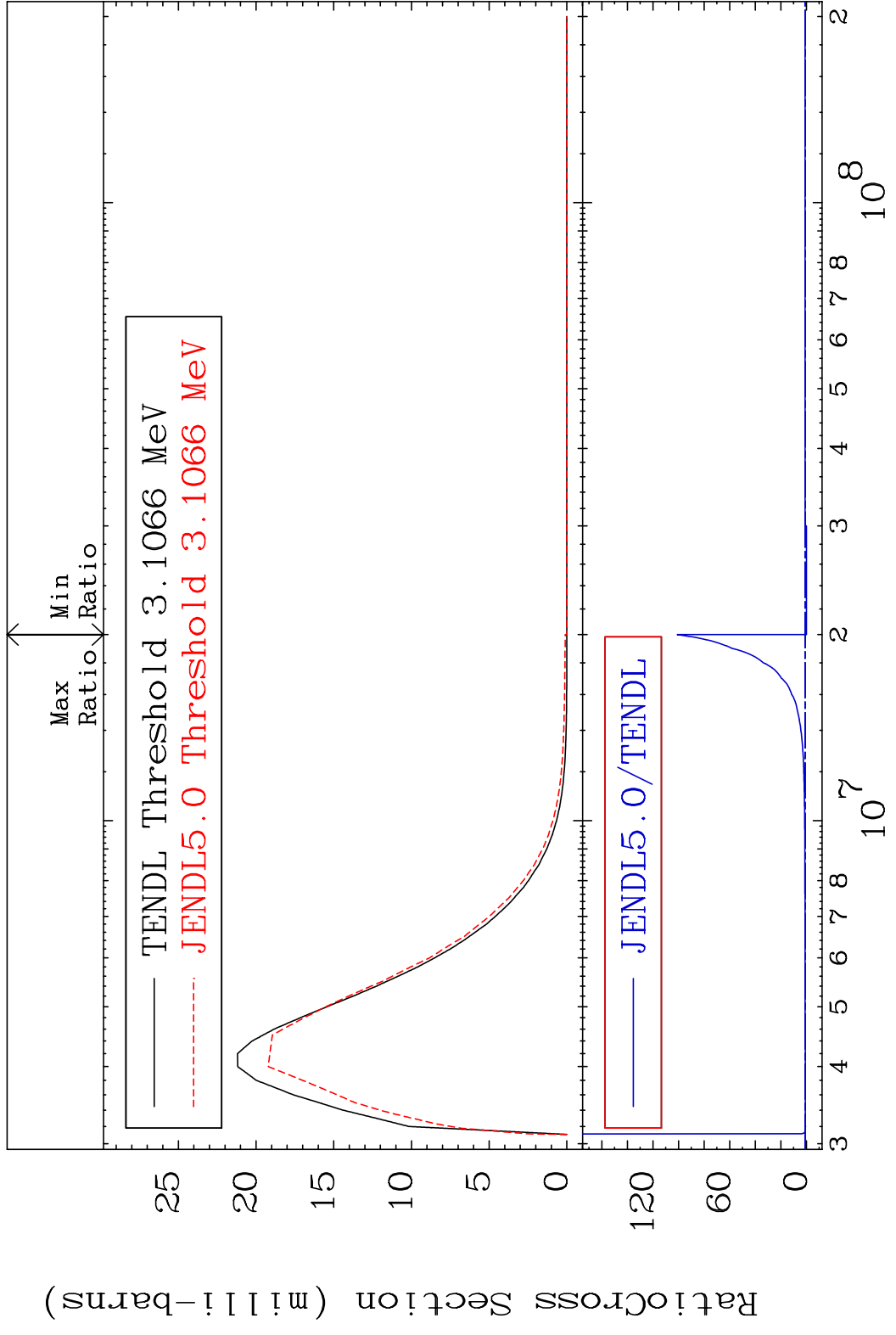


MAT 2828 MT= 79 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 144.4 %

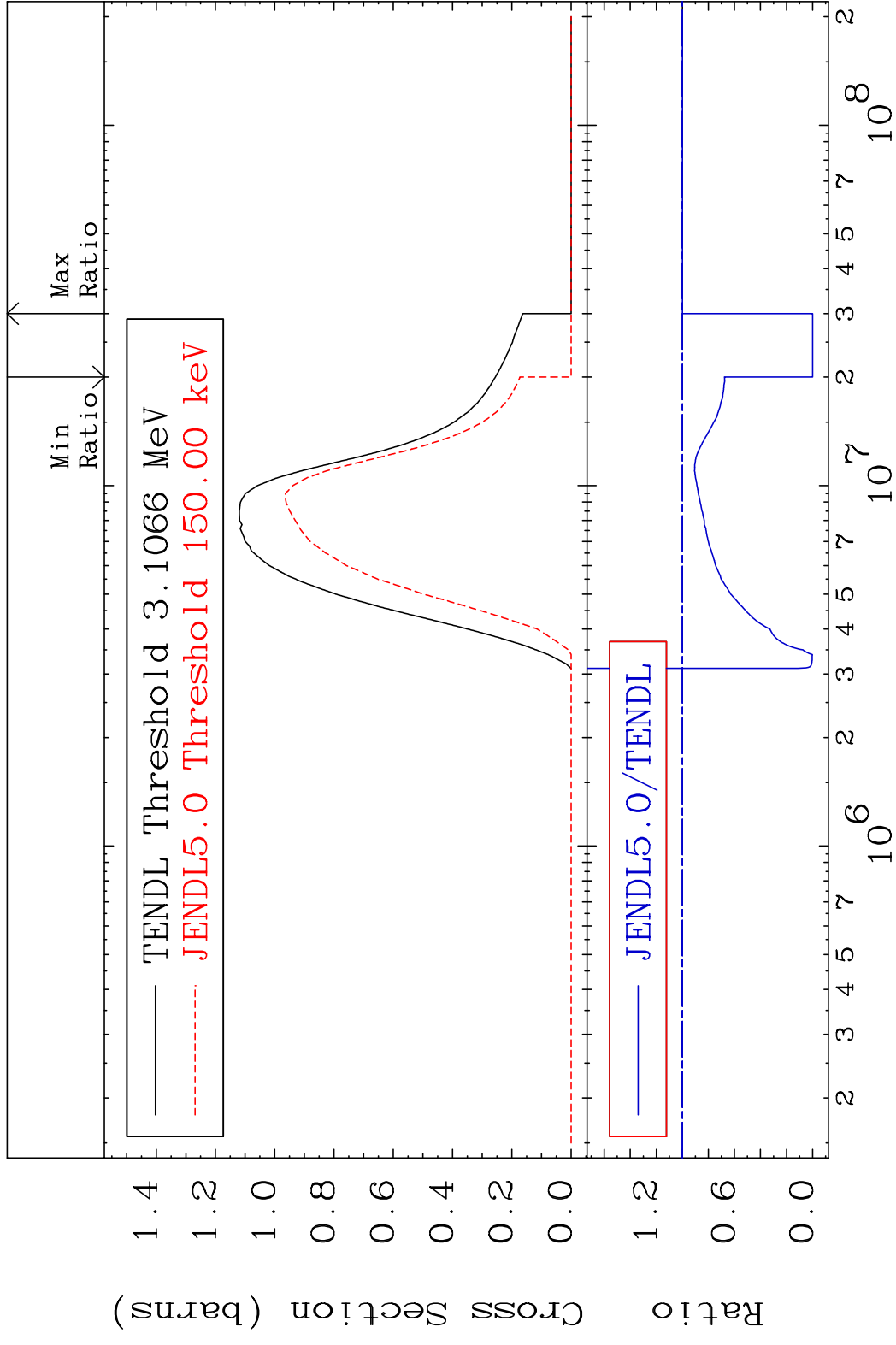


39 28-Ni-59

MAT 2828 MT= 80 (n, n') Level 28-Ni-59
 Cross Section -100.0 To 9999. %



40 Incident Energy (eV) 28-Ni-59



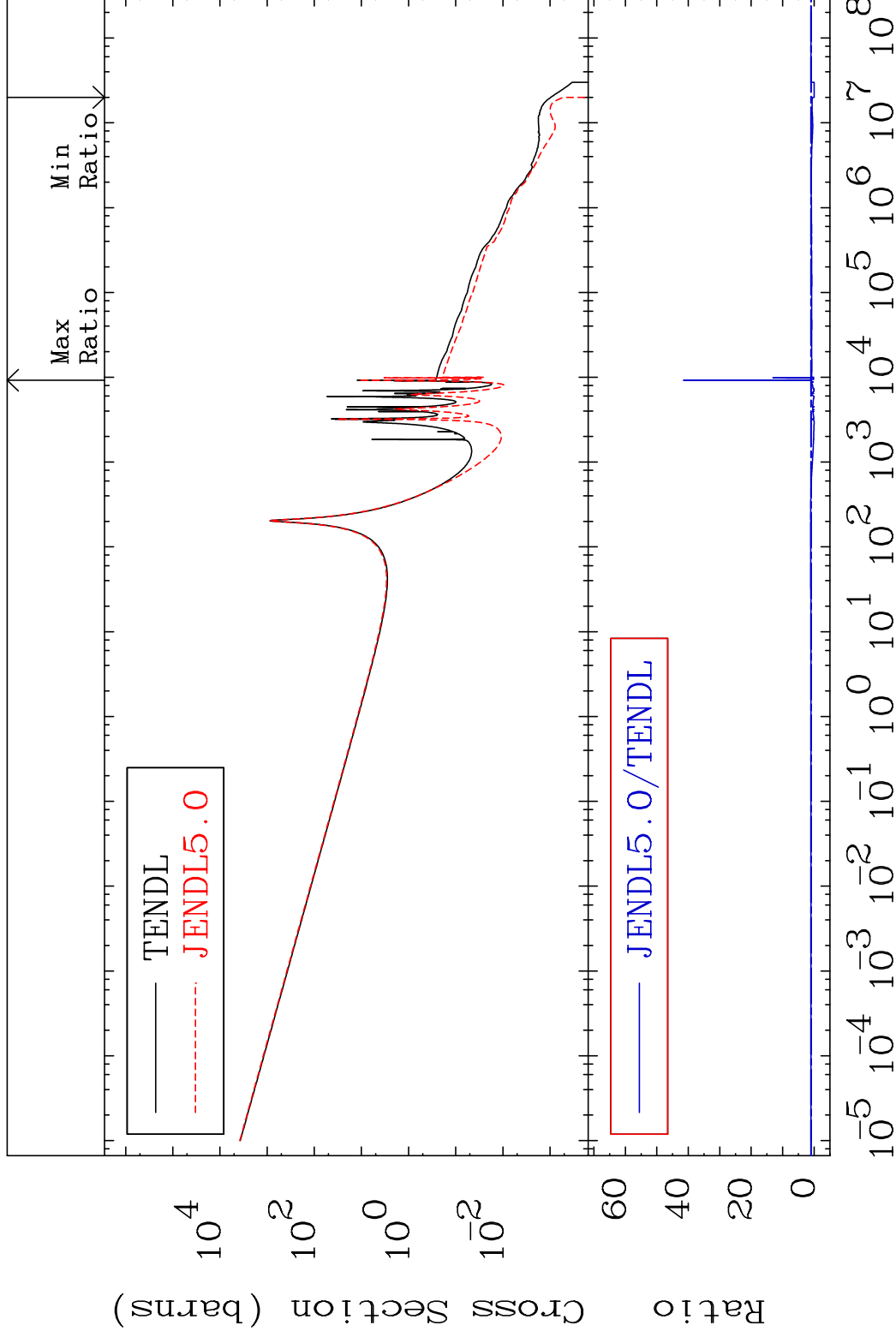
MAT 2828

(n, γ)

28-Ni-59

Cross Section

-100.0 To 4047. %



42

Incident Energy (eV)

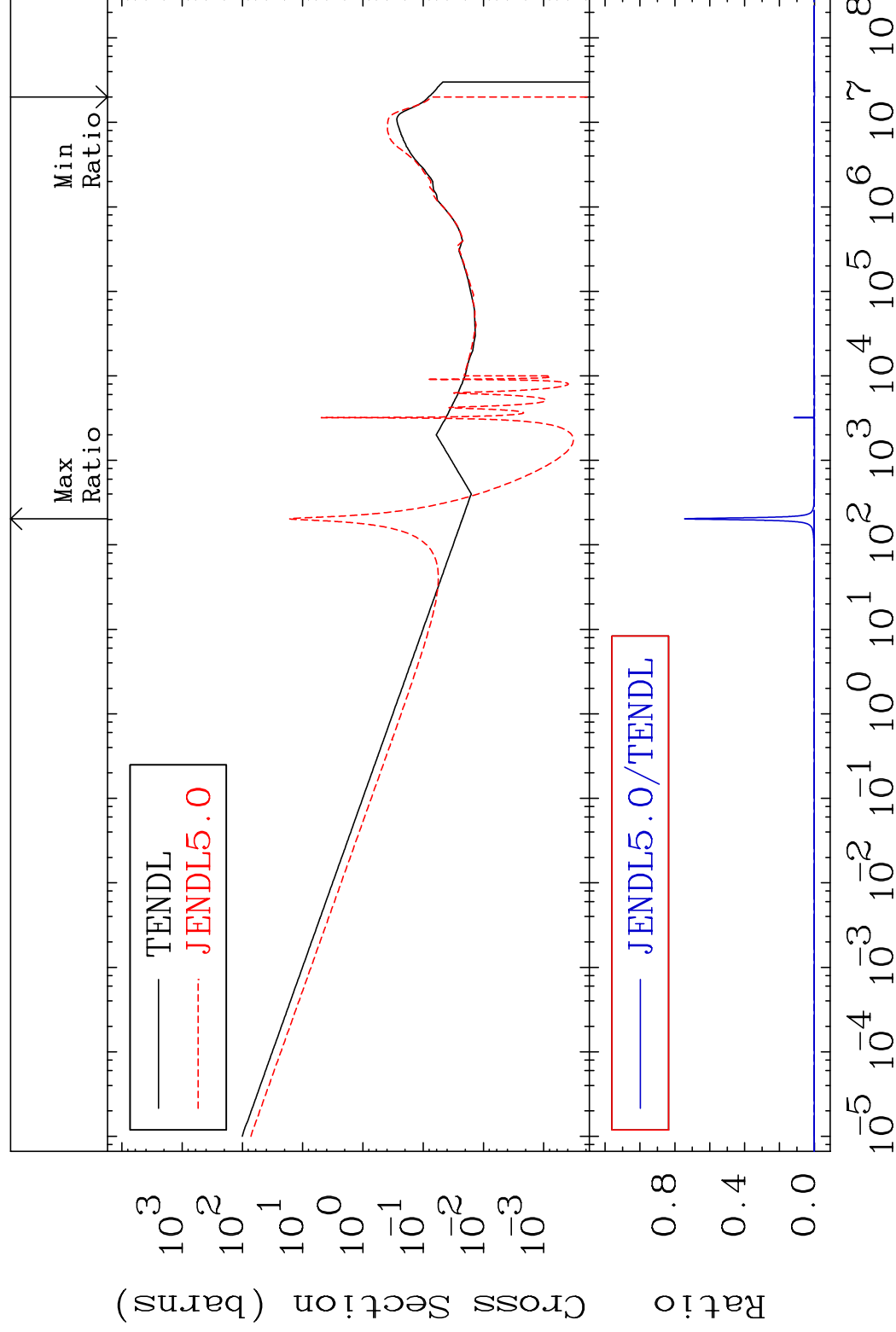
28-Ni-59

MAT 2828

(n, p)

28-Ni-59

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

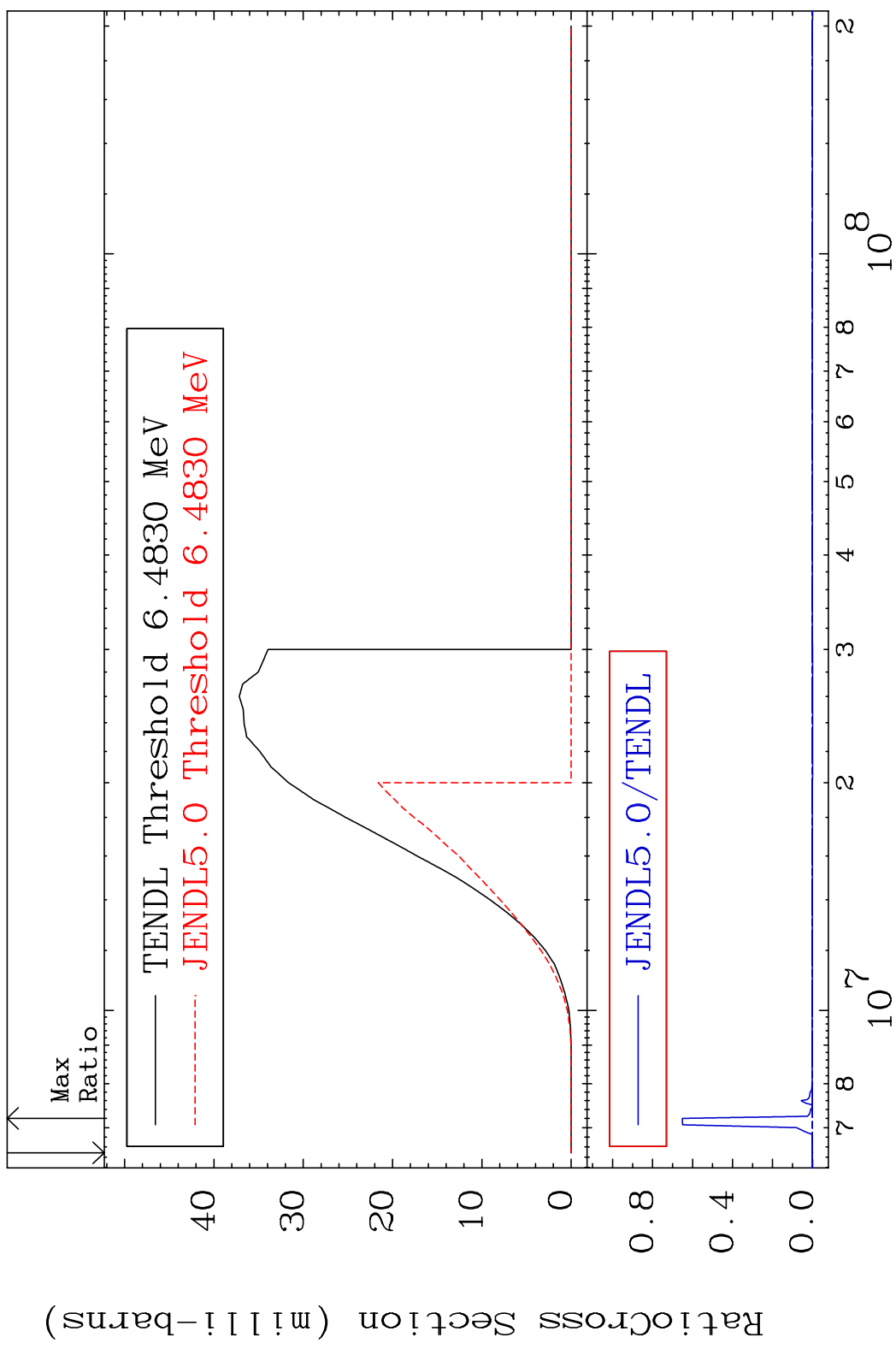
28-Ni-59

MAT 2828

(n,d)

28-Ni-59

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

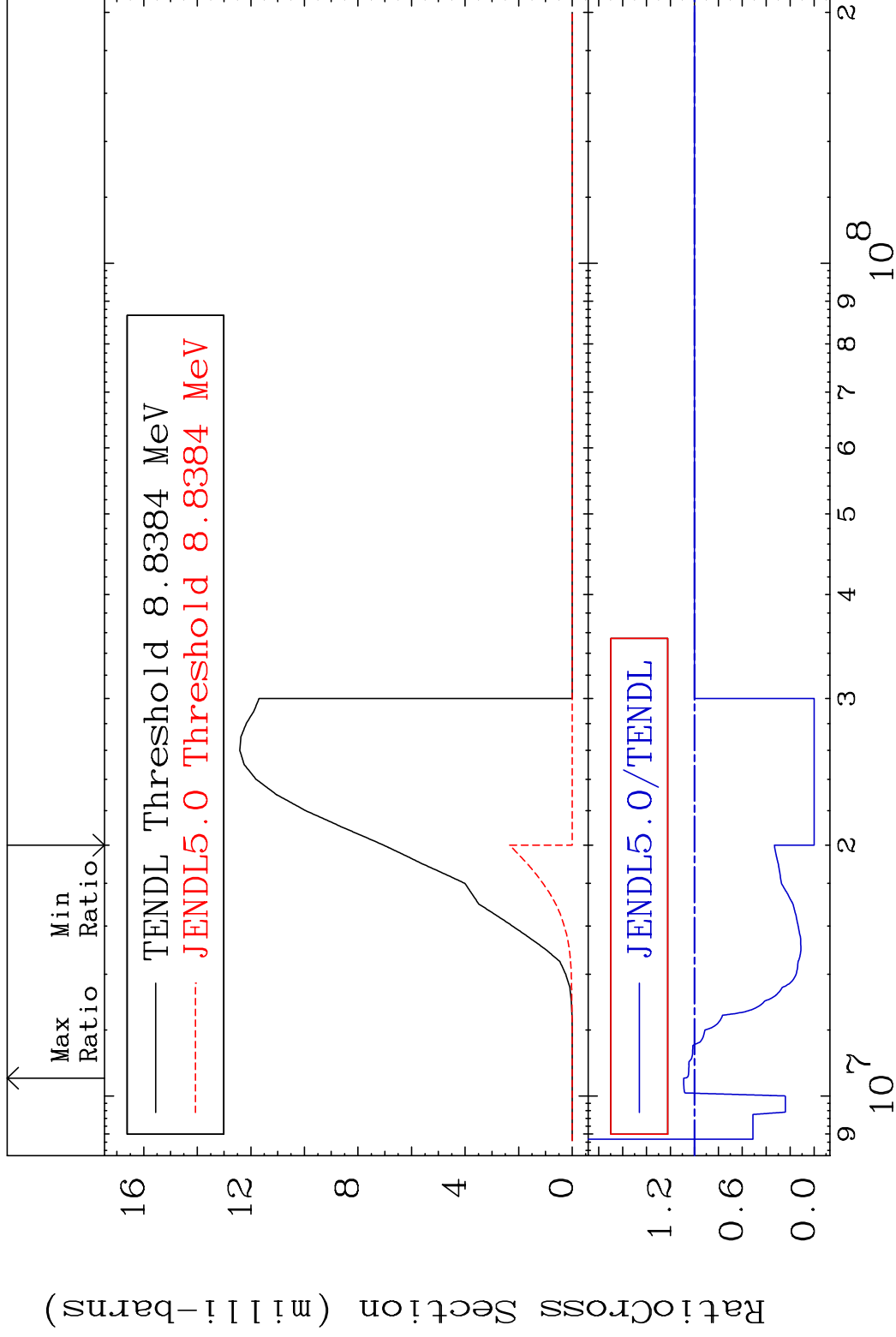
28-Ni-59

MAT 2828

(n, t)

28-Ni-59

Cross Section -100.0 To 8.976 %



45

Incident Energy (eV)

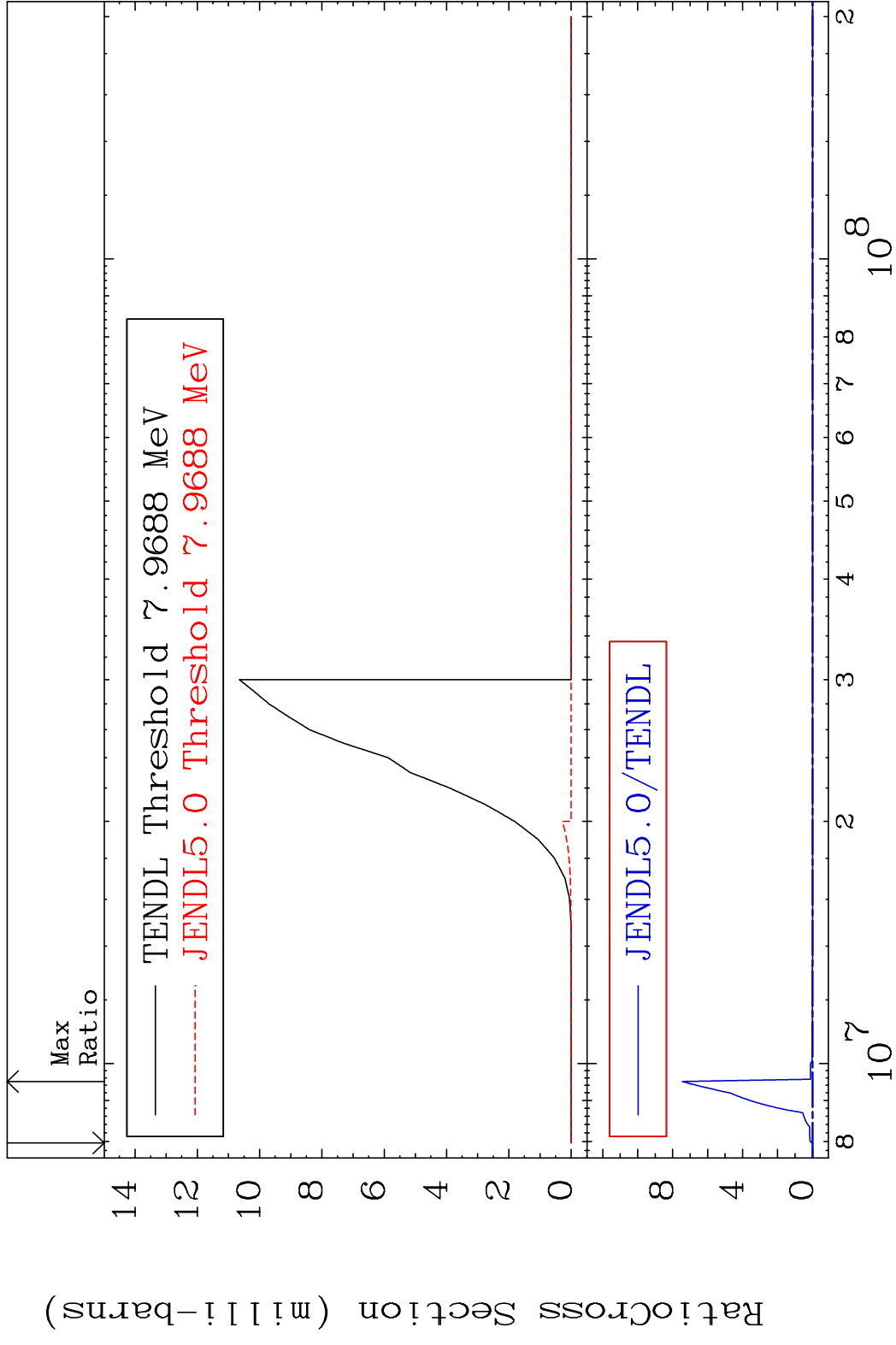
28-Ni-59

MAT 2828

(n, He-3)

28-Ni-59

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

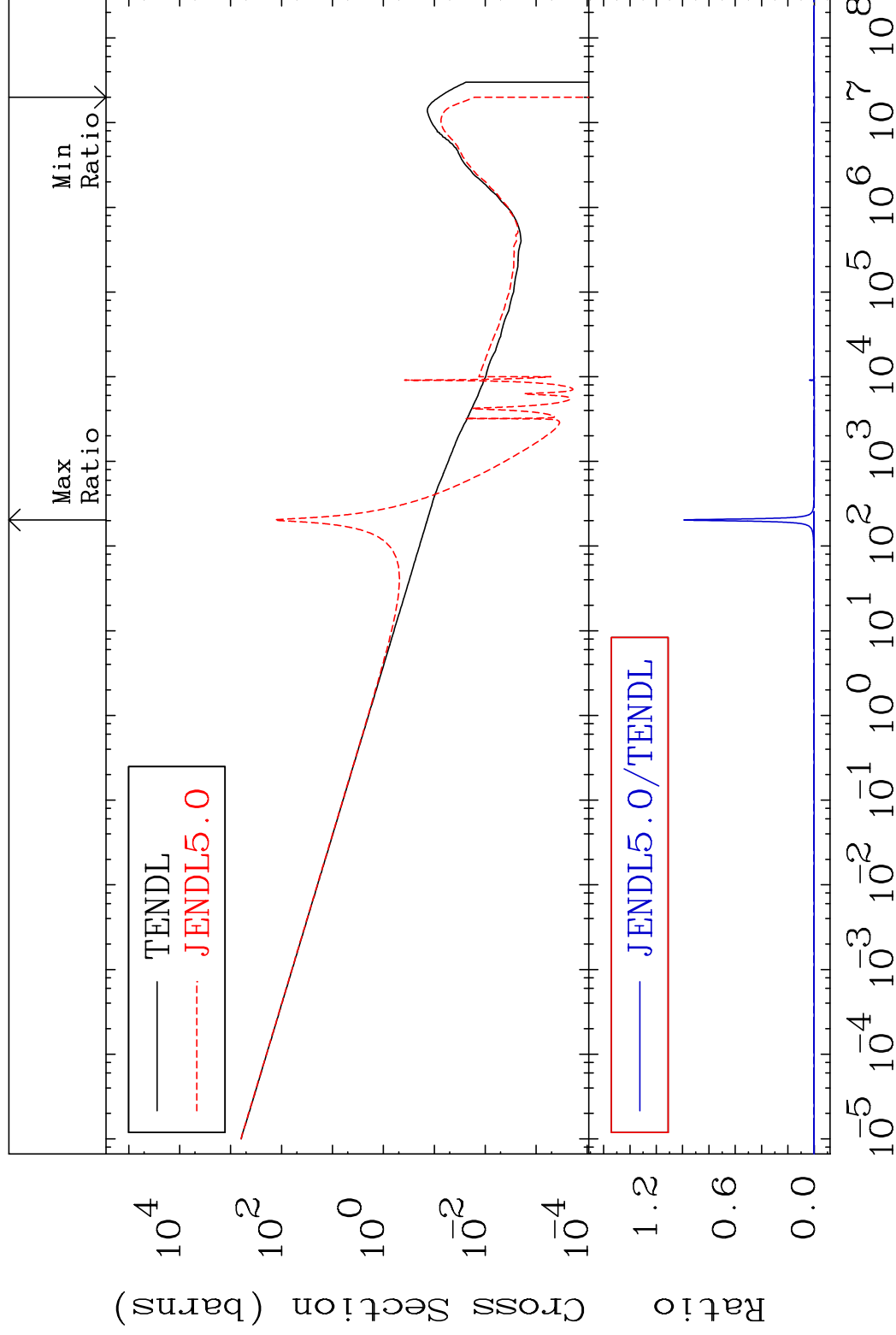
28-Ni-59

MAT 2828

28-Ni-59

(n, α)

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

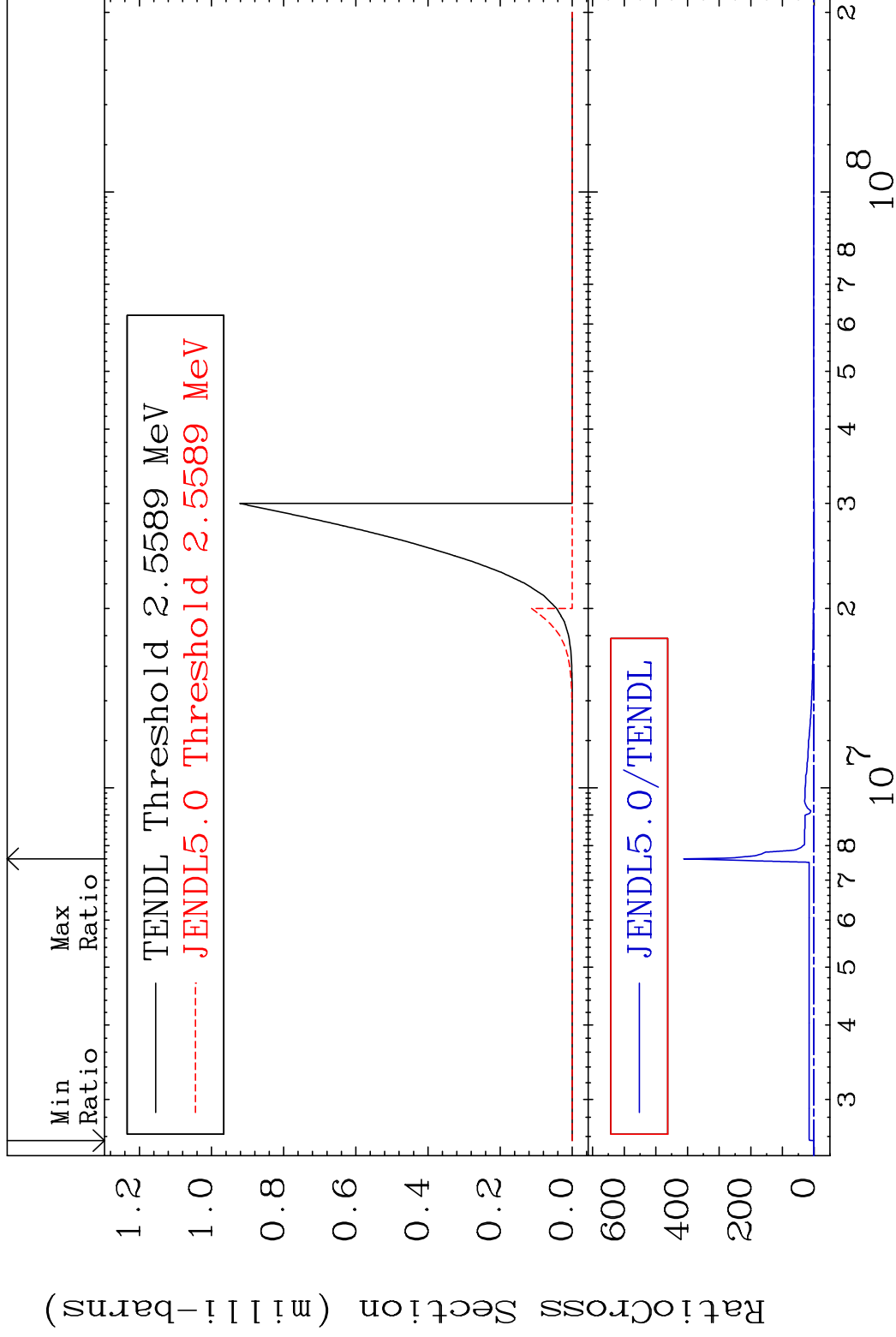
28-Ni-59

MAT 2828

(n,2α)

28-Ni-59

Cross Section -100.0 To 9999. %

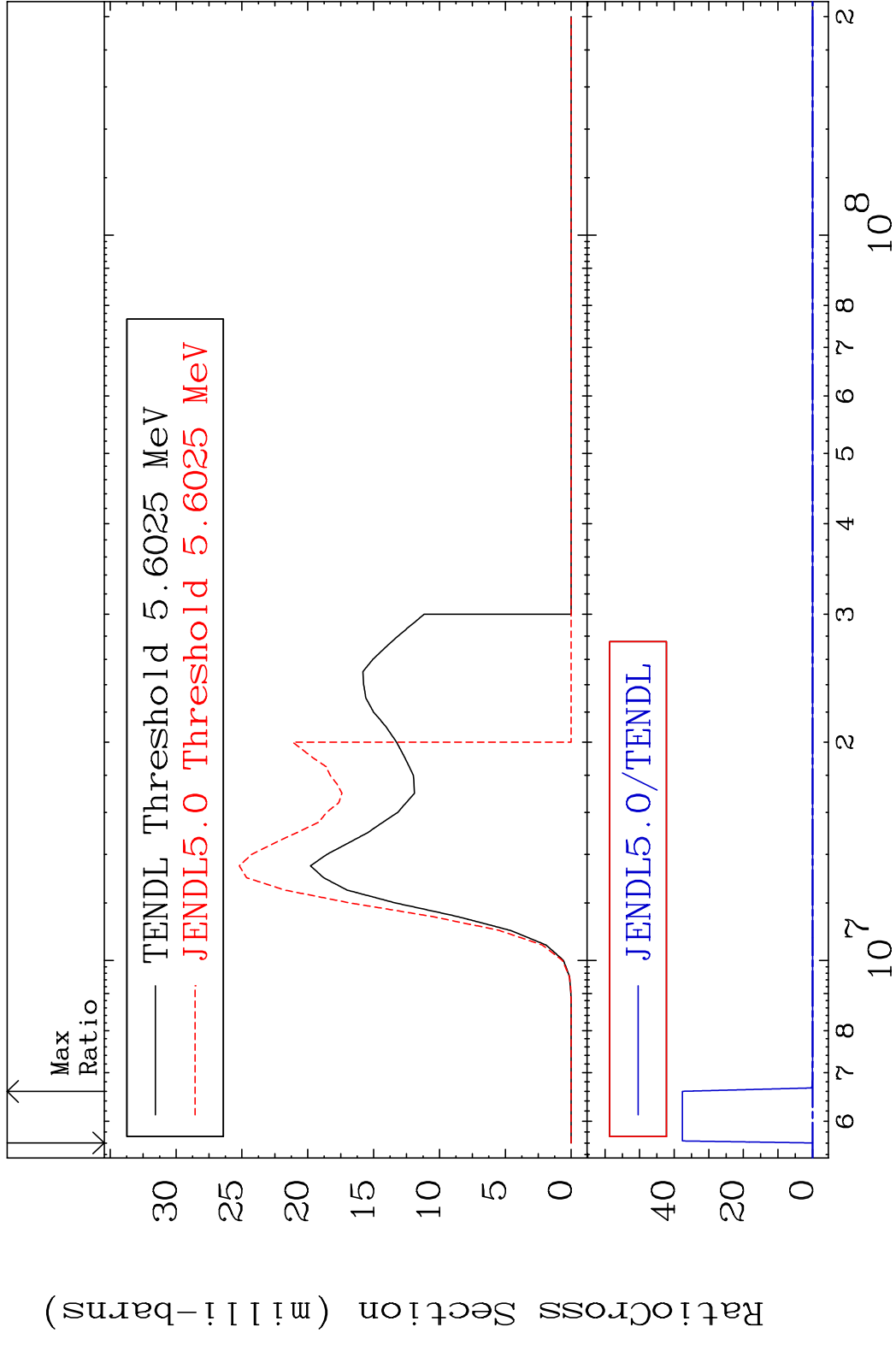


48

Incident Energy (eV)

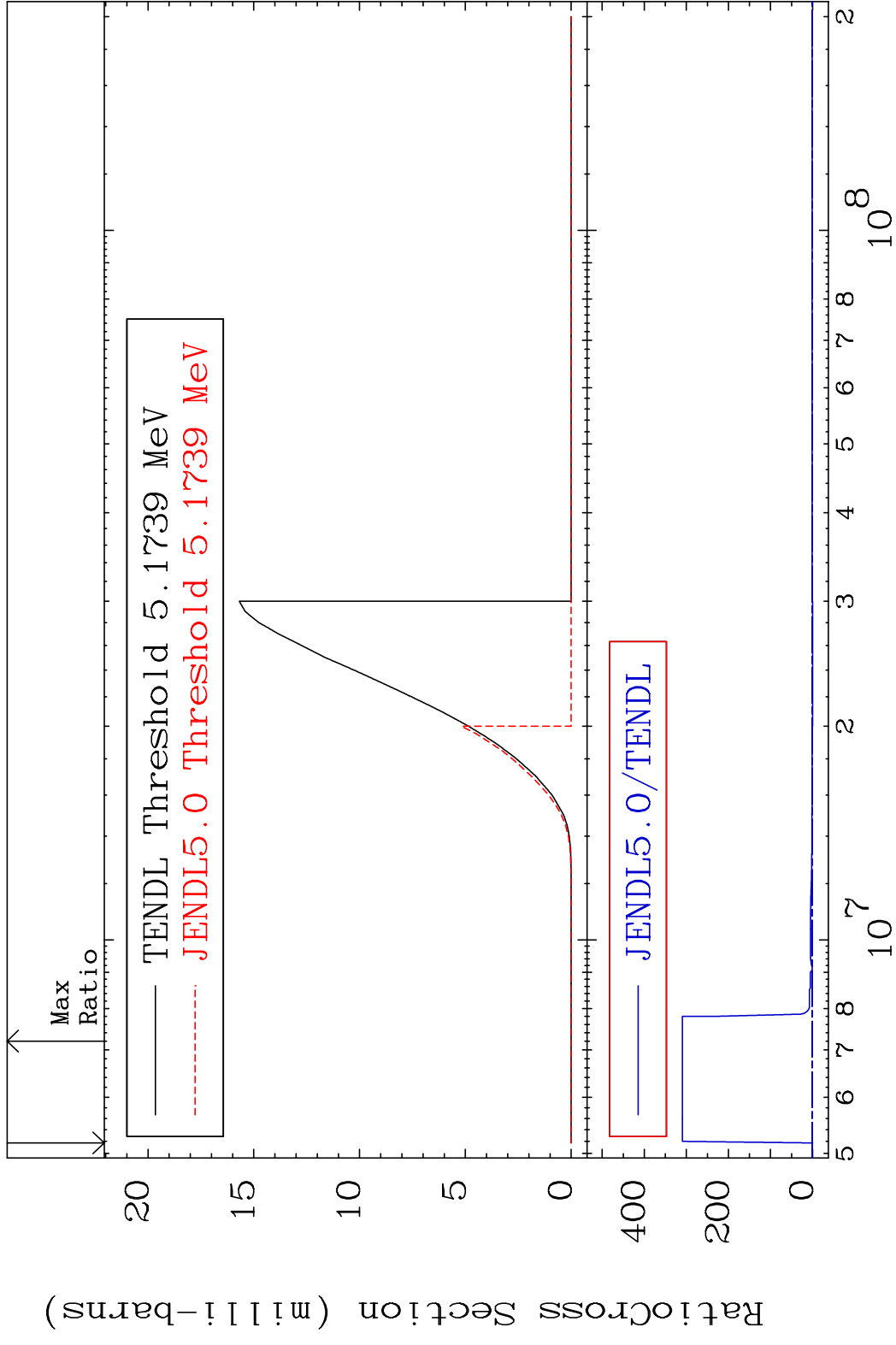
28-Ni-59

MAT 2828 (n,2p) 28-Ni-59
 Cross Section -100.0 To 9999. %



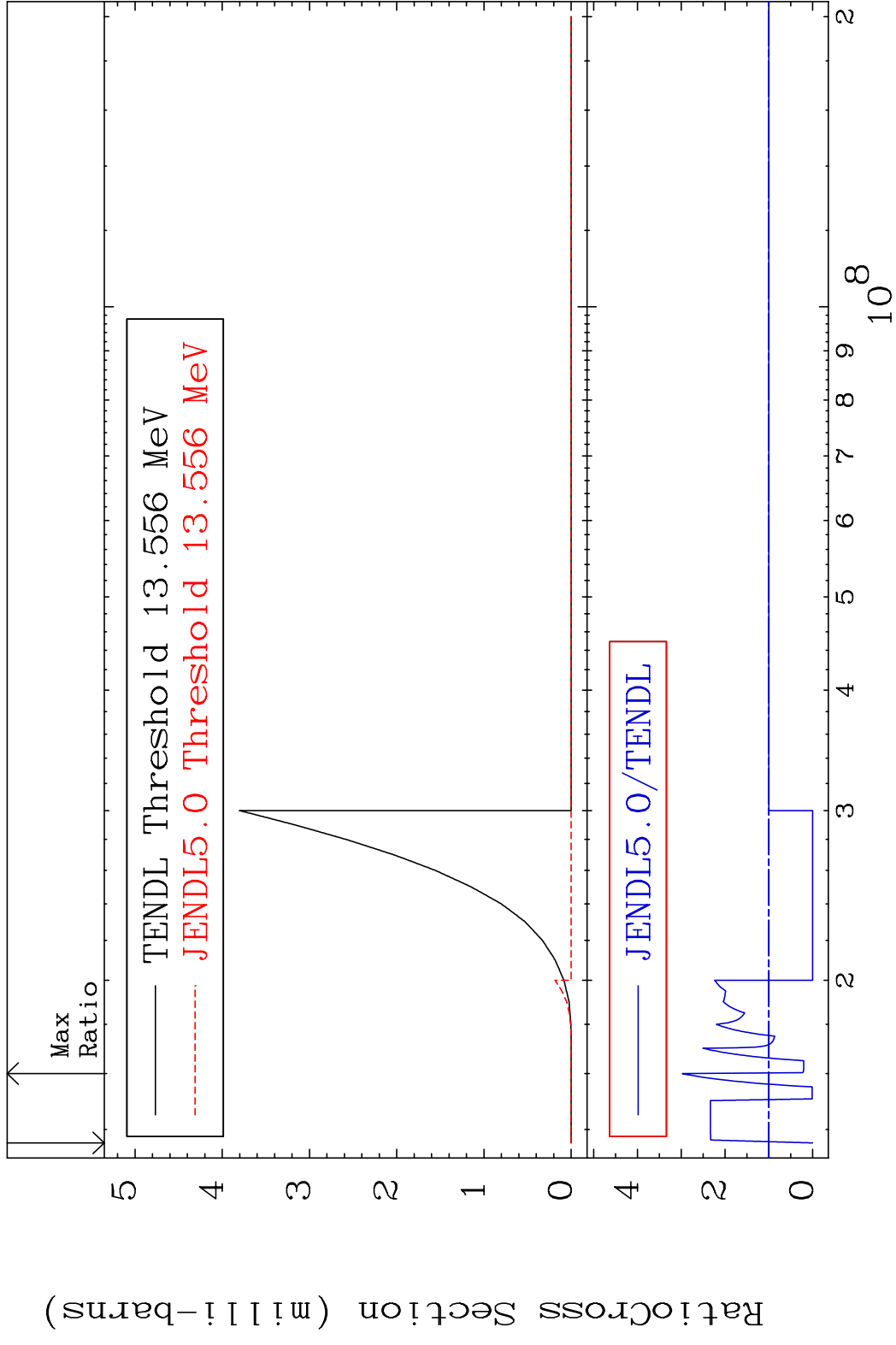
49 28-Ni-59

MAT 2828 (n,p) α 28-Ni-59
 Cross Section -100.0 To 9999. %

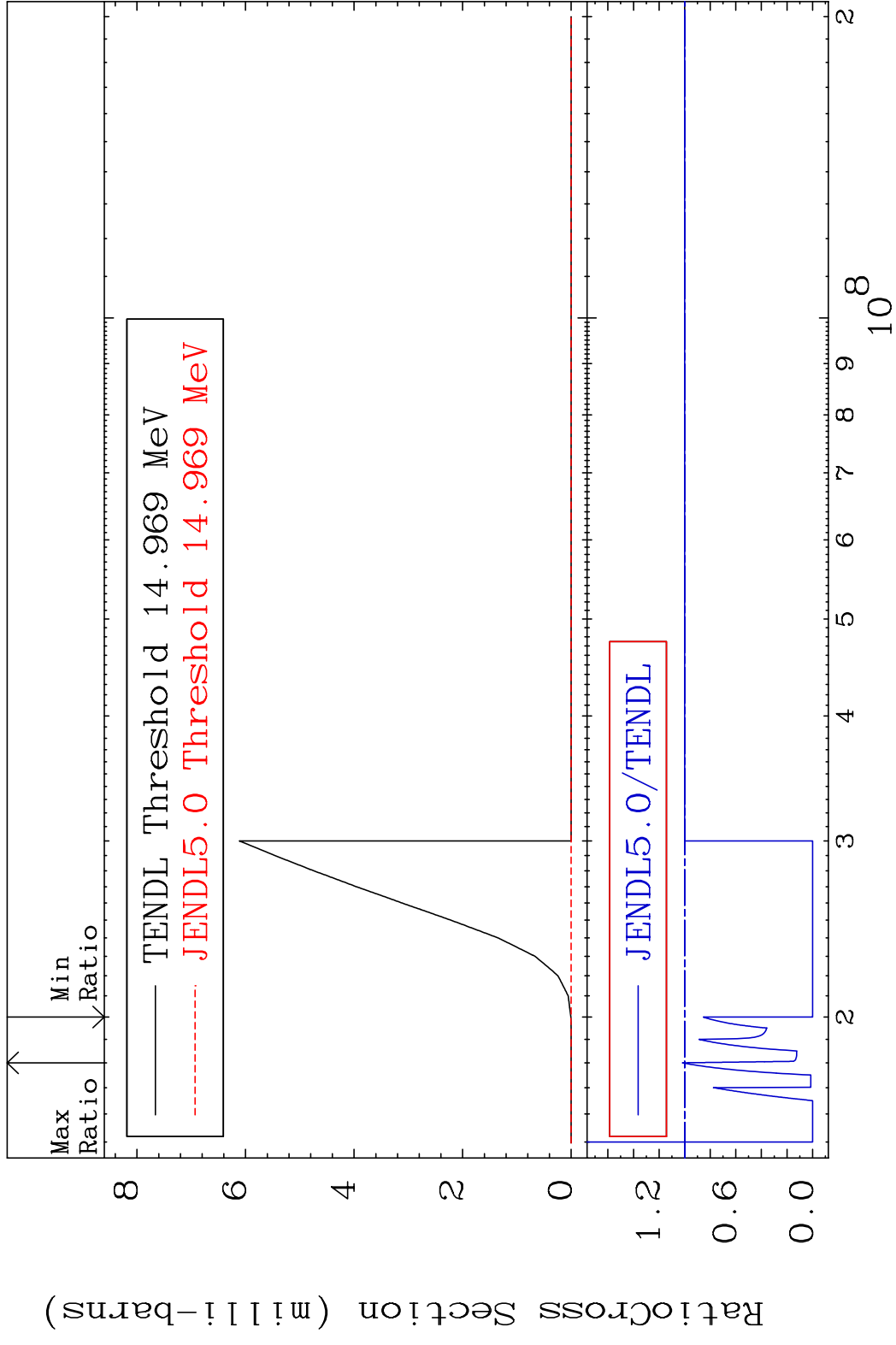


50 28-Ni-59

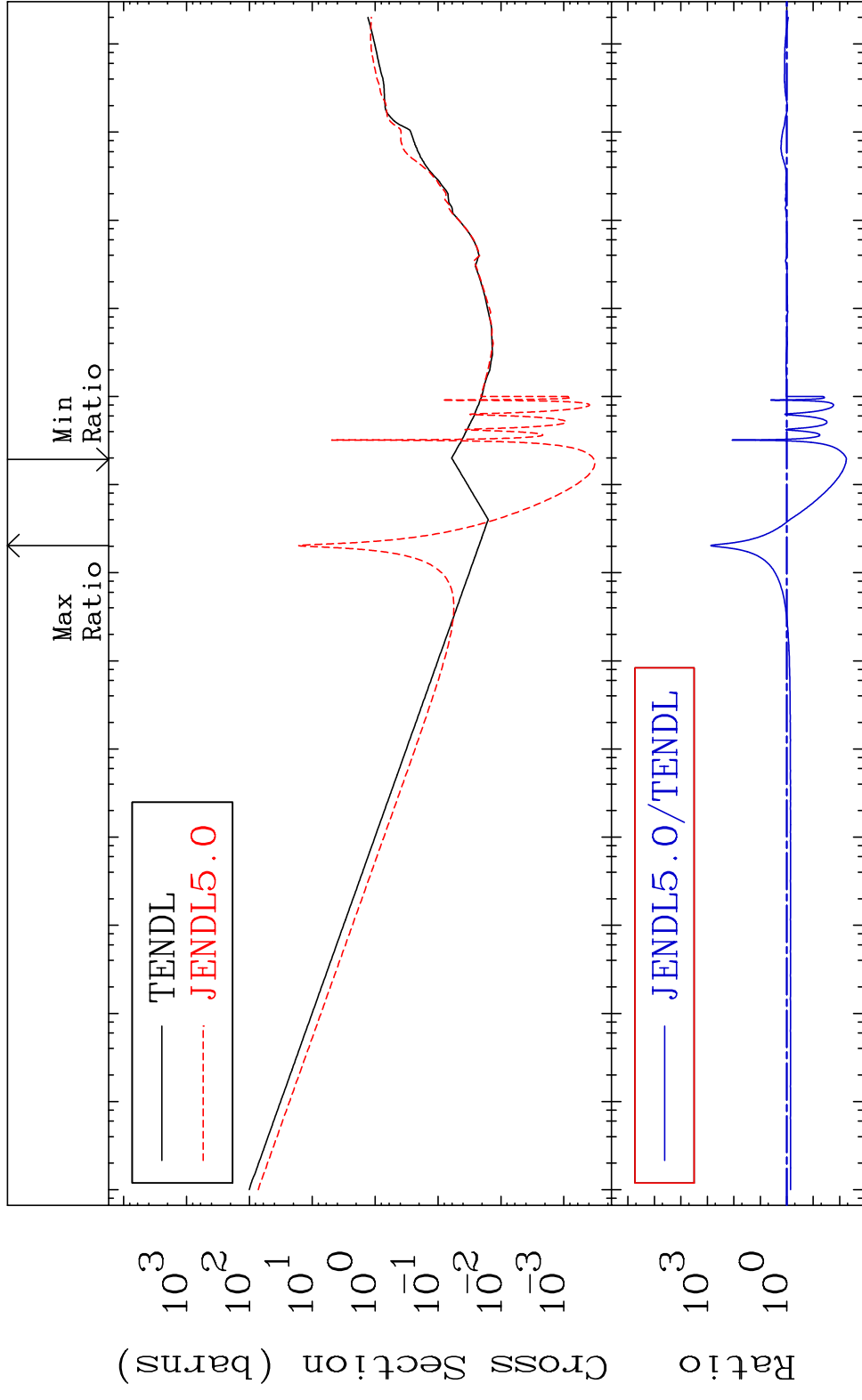
MAT 2828 (n,p) d 28-Ni-59
 Cross Section -100.0 To 197.3 %



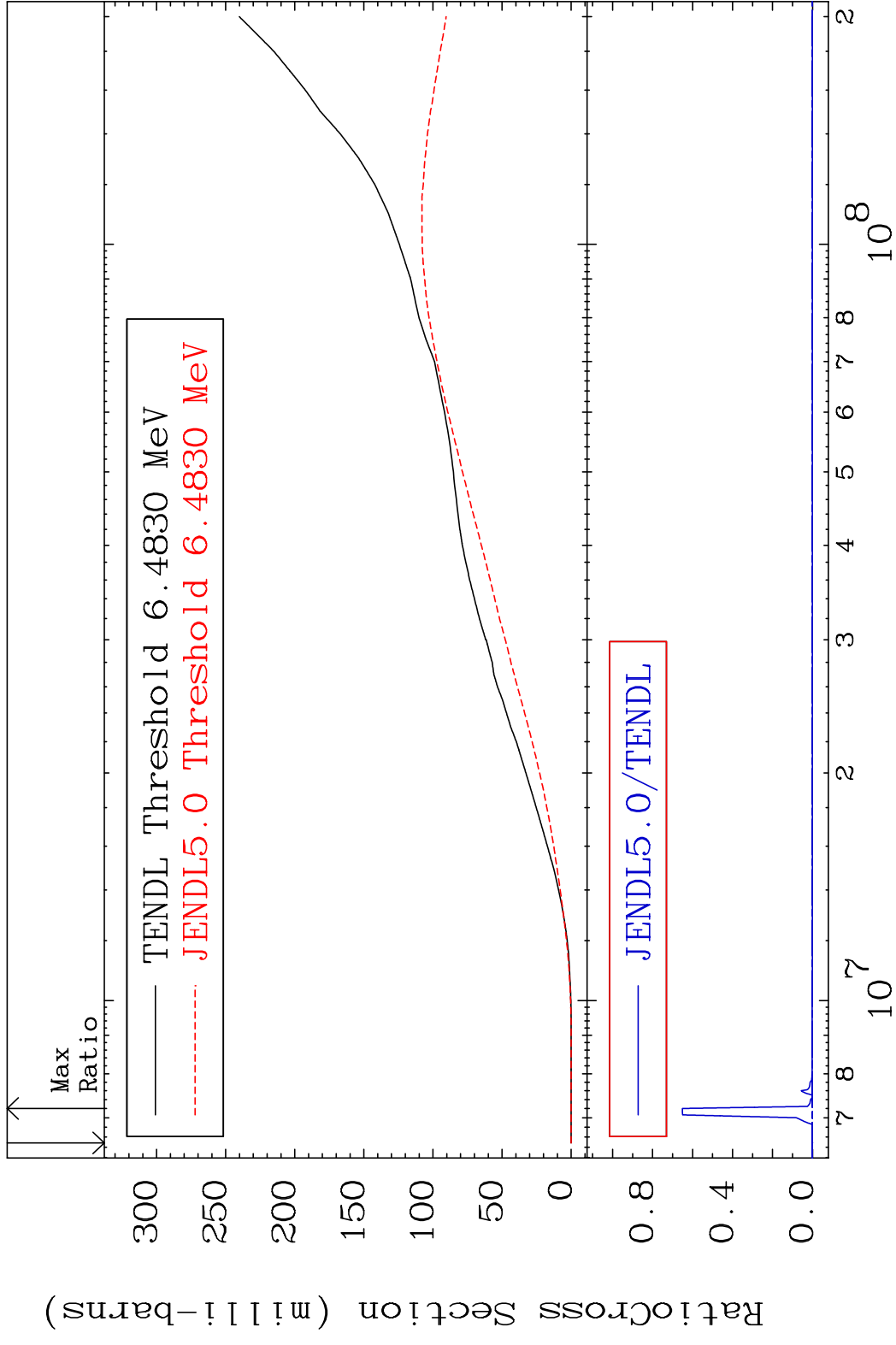
MAT 2828 (n,p) t 28-Ni-59
 Cross Section -100.0 To 1.786 %



MAT 2828 Hydrogen Production 28-Ni-59
 Cross Section -99.44 To 9999. %



MAT 2828 Deuterium Production 28-Ni-59
 Cross Section -100.0 To 9999. %

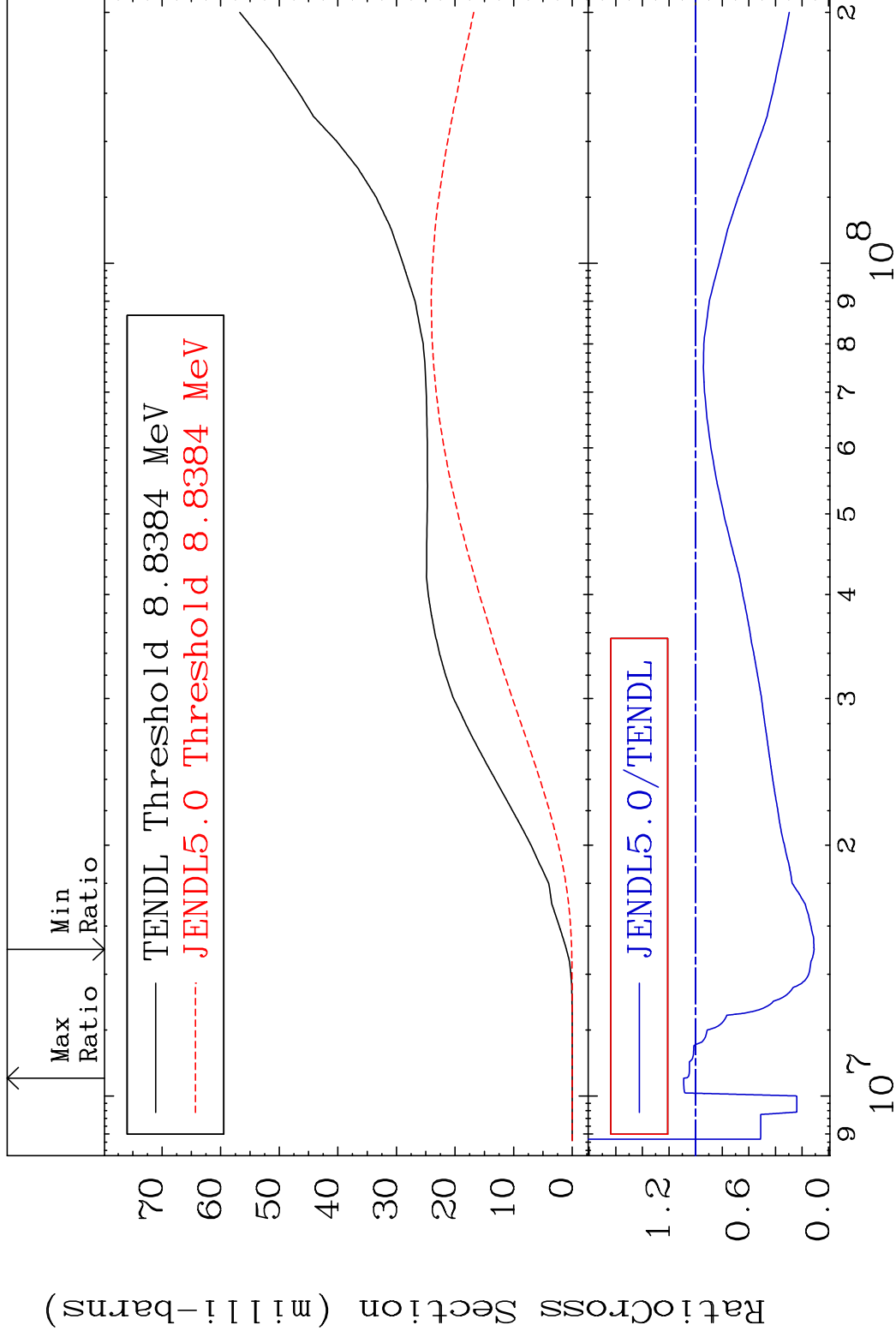


MAT 2828

Tritium Production

28-Ni-59

Cross Section -89.06 To 8.976 %



55

Incident Energy (eV)

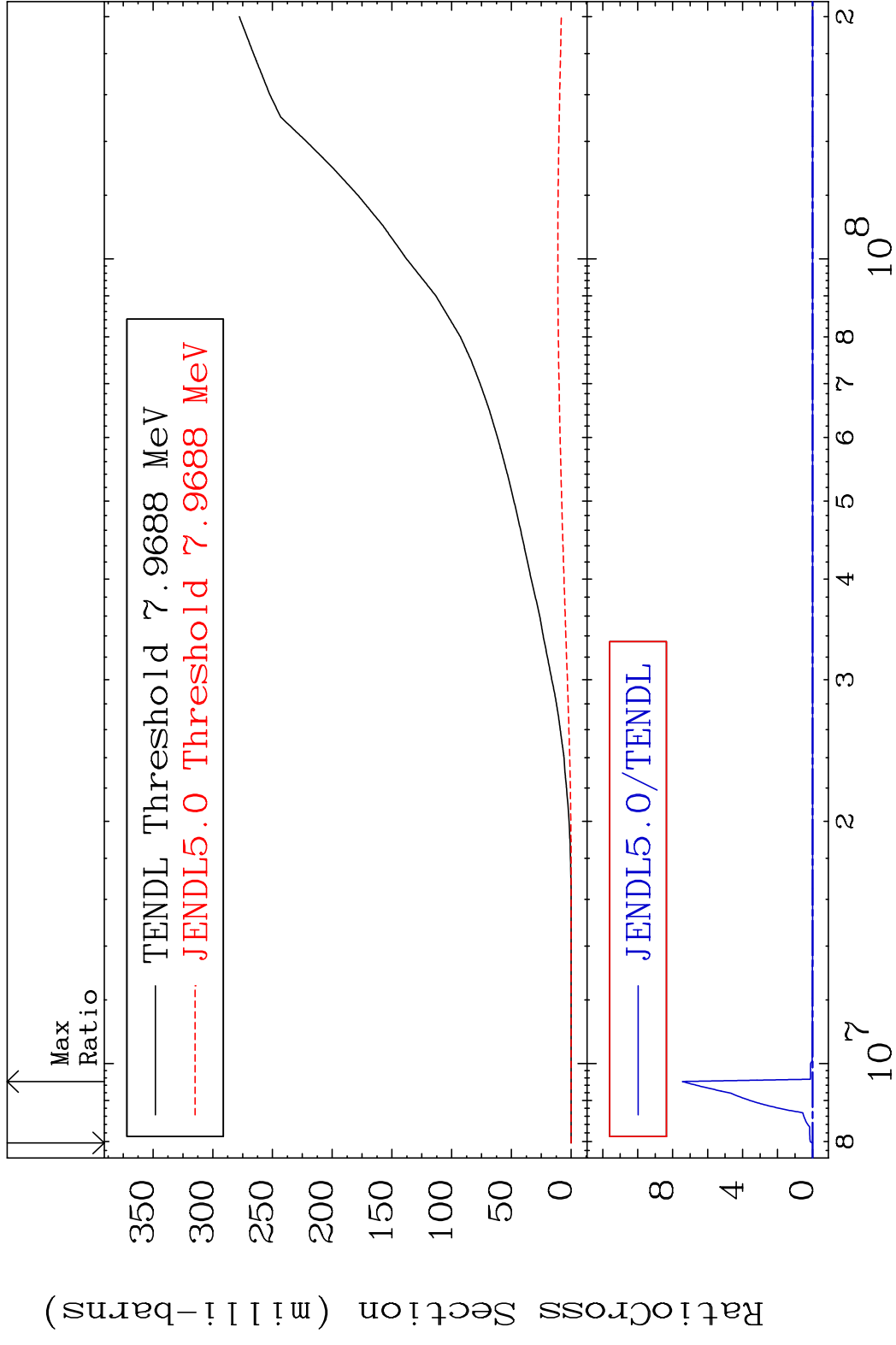
28-Ni-59

MAT 2828

He-3 Production

28-Ni-59

Cross Section -100.0 To 9999. %



56

Incident Energy (eV)

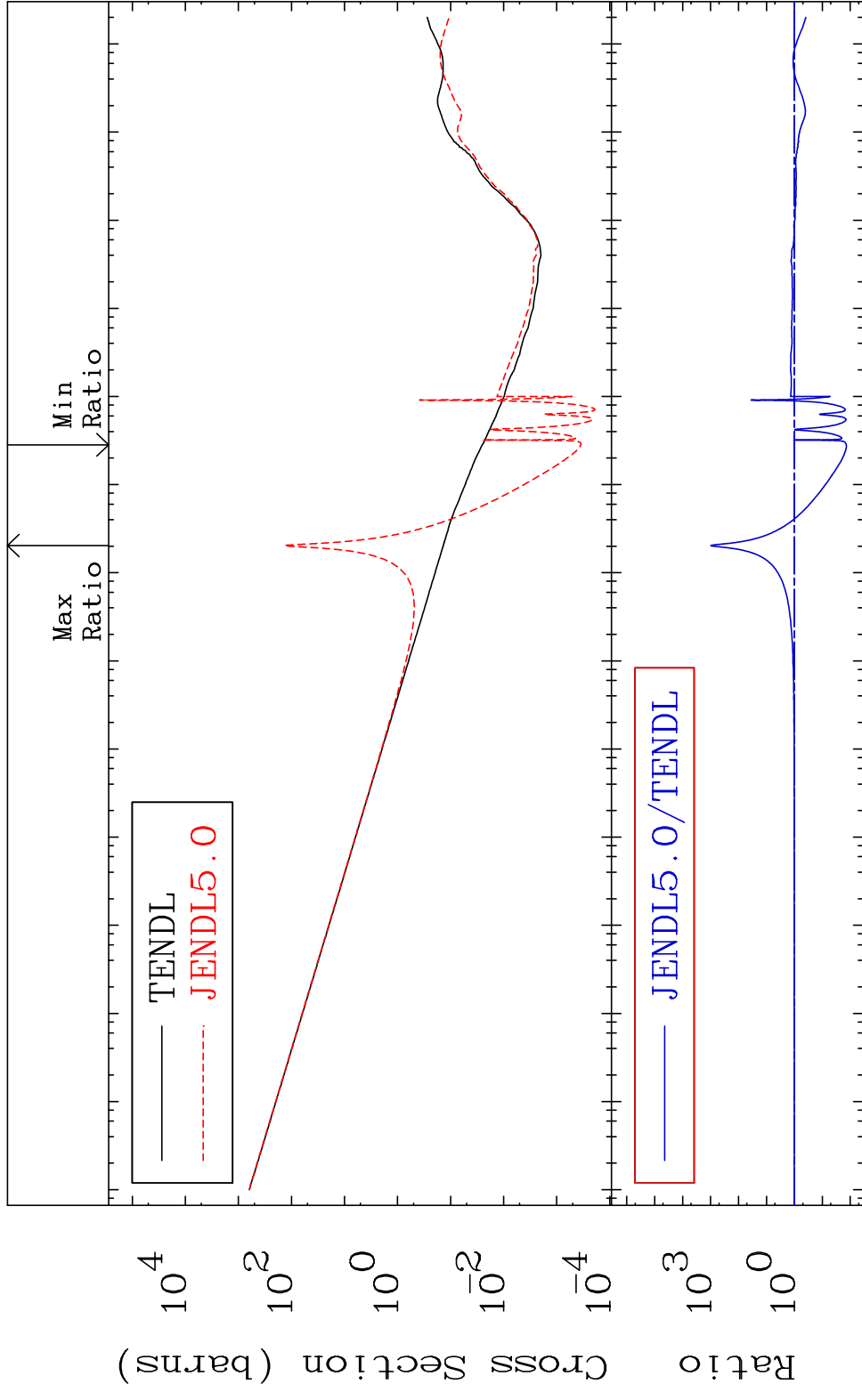
28-Ni-59

MAT 2828

He-4 Production

28-Ni-59

Cross Section -98.62 To 9999. %

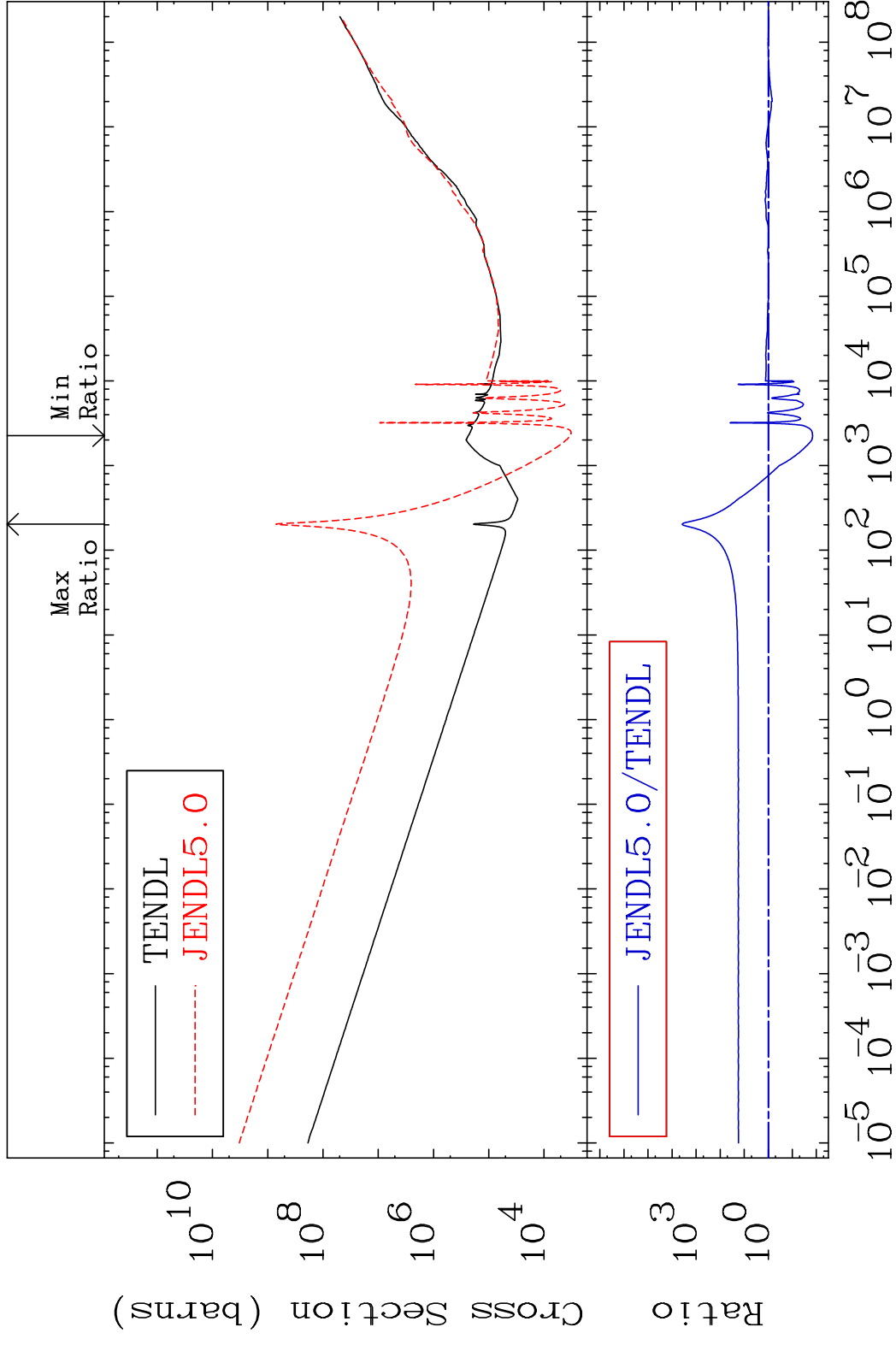


57

Incident Energy (eV)

28-Ni-59

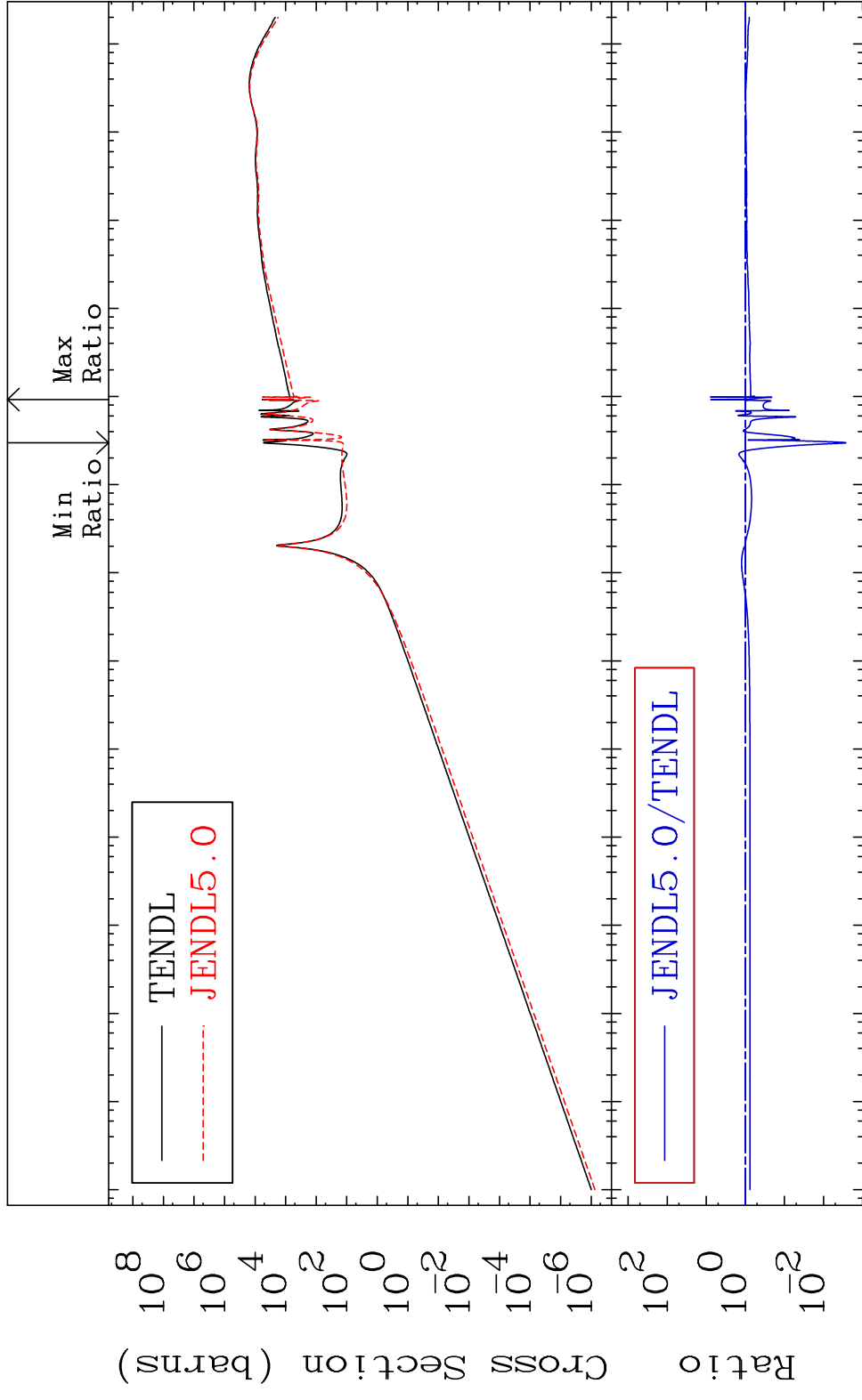
MAT 2828 Kerma total (eV-barns) 28-Ni-59
 Cross Section -98.56 To 9999. %



MAT 2828

Kerma elastic
Cross Section

28-Ni-59
-99.74 To 672.0 %

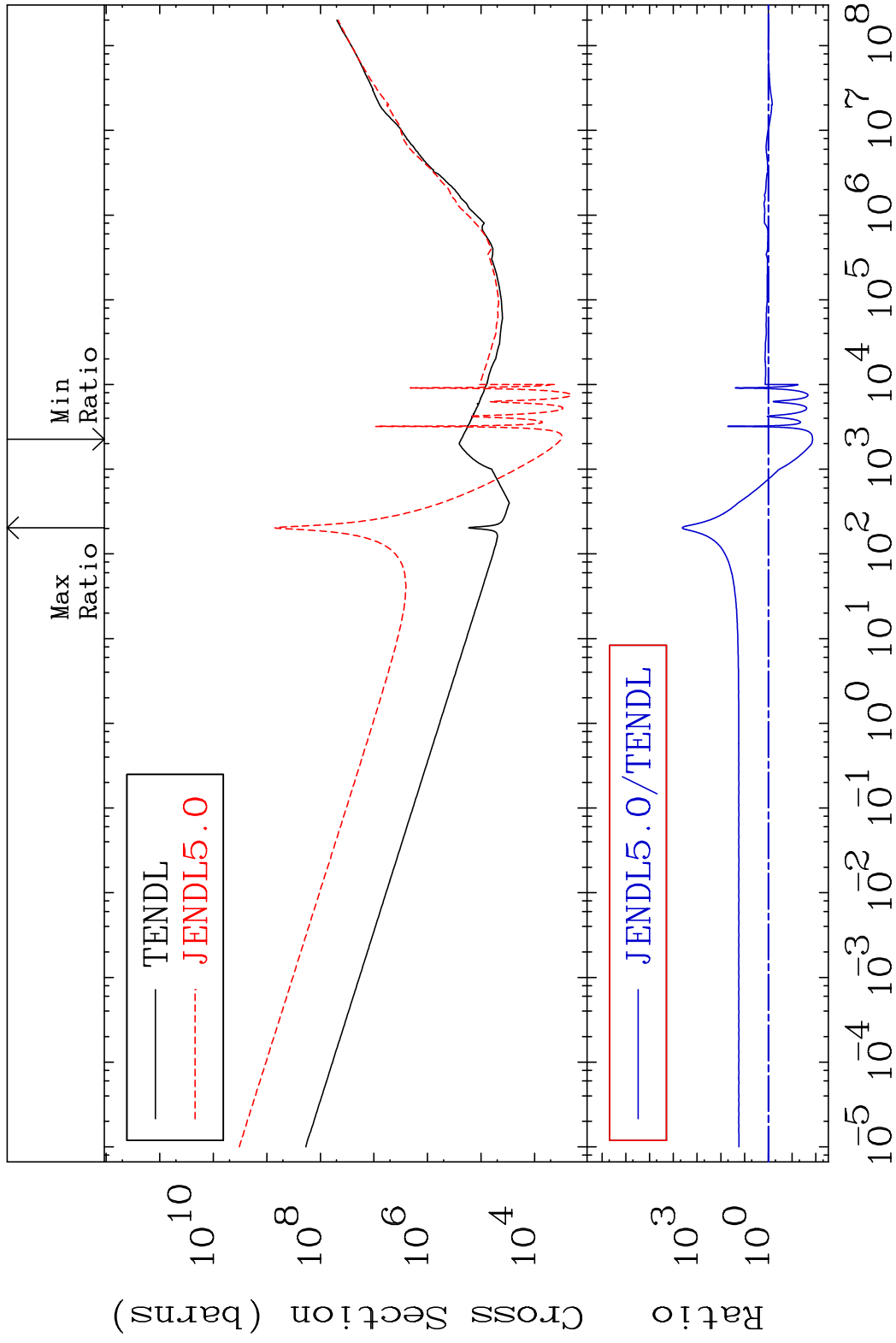


59

Incident Energy (eV)

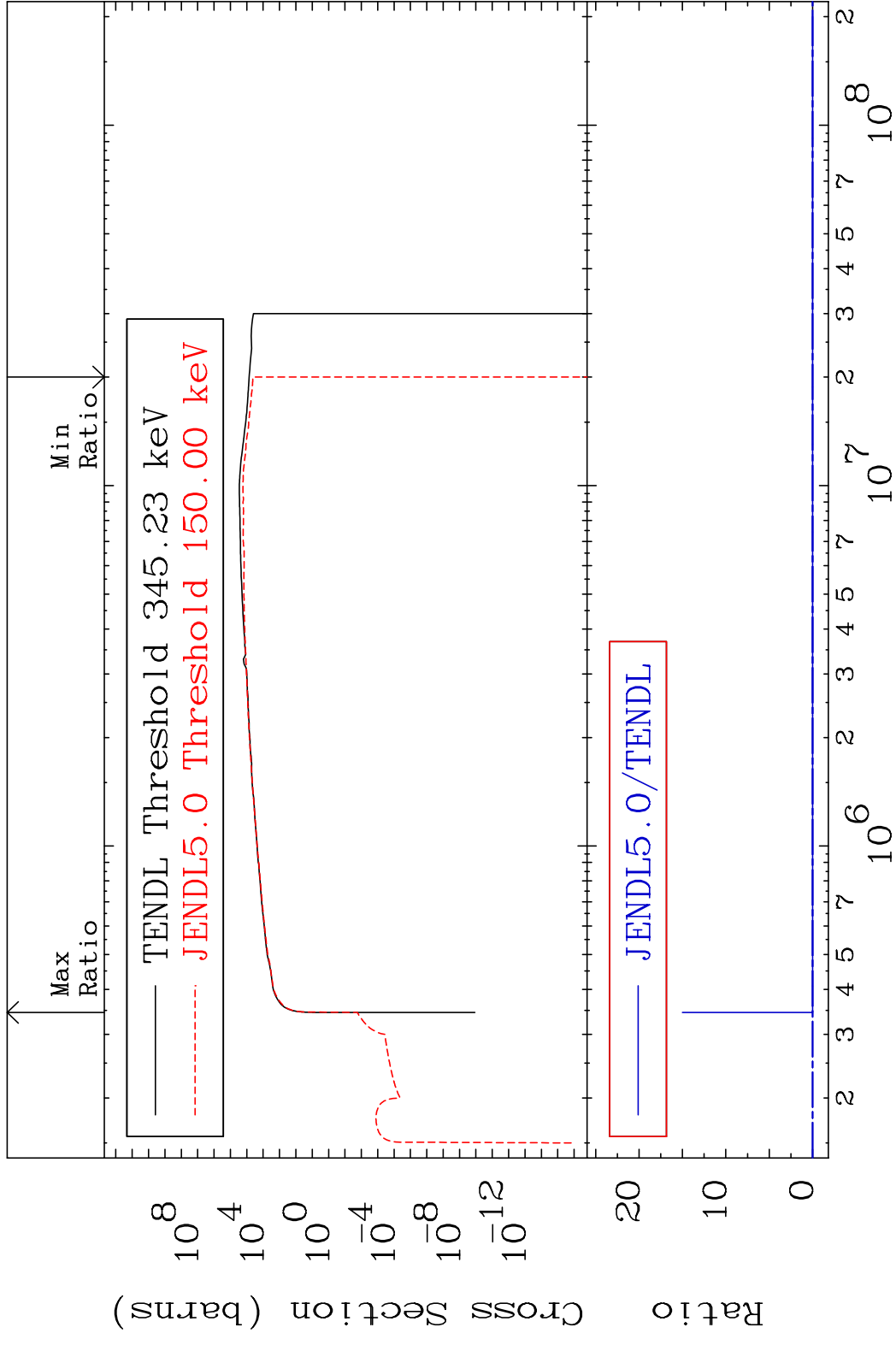
28-Ni-59

MAT 2828 Kerma non-elastic (all but mt2) 28-Ni-59
 Cross Section -98.62 To 9999. %

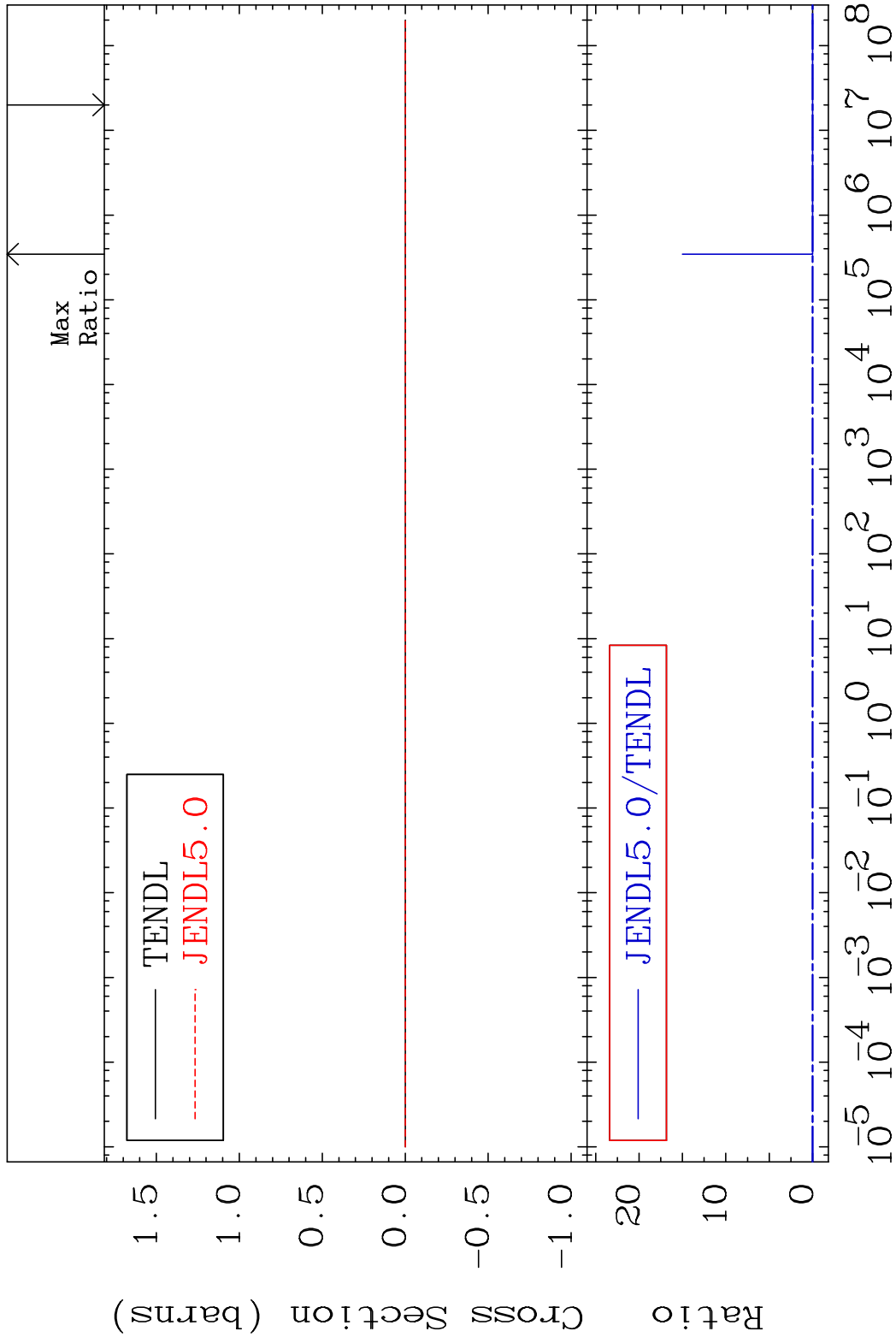


60 Incident Energy (eV) 28-Ni-59

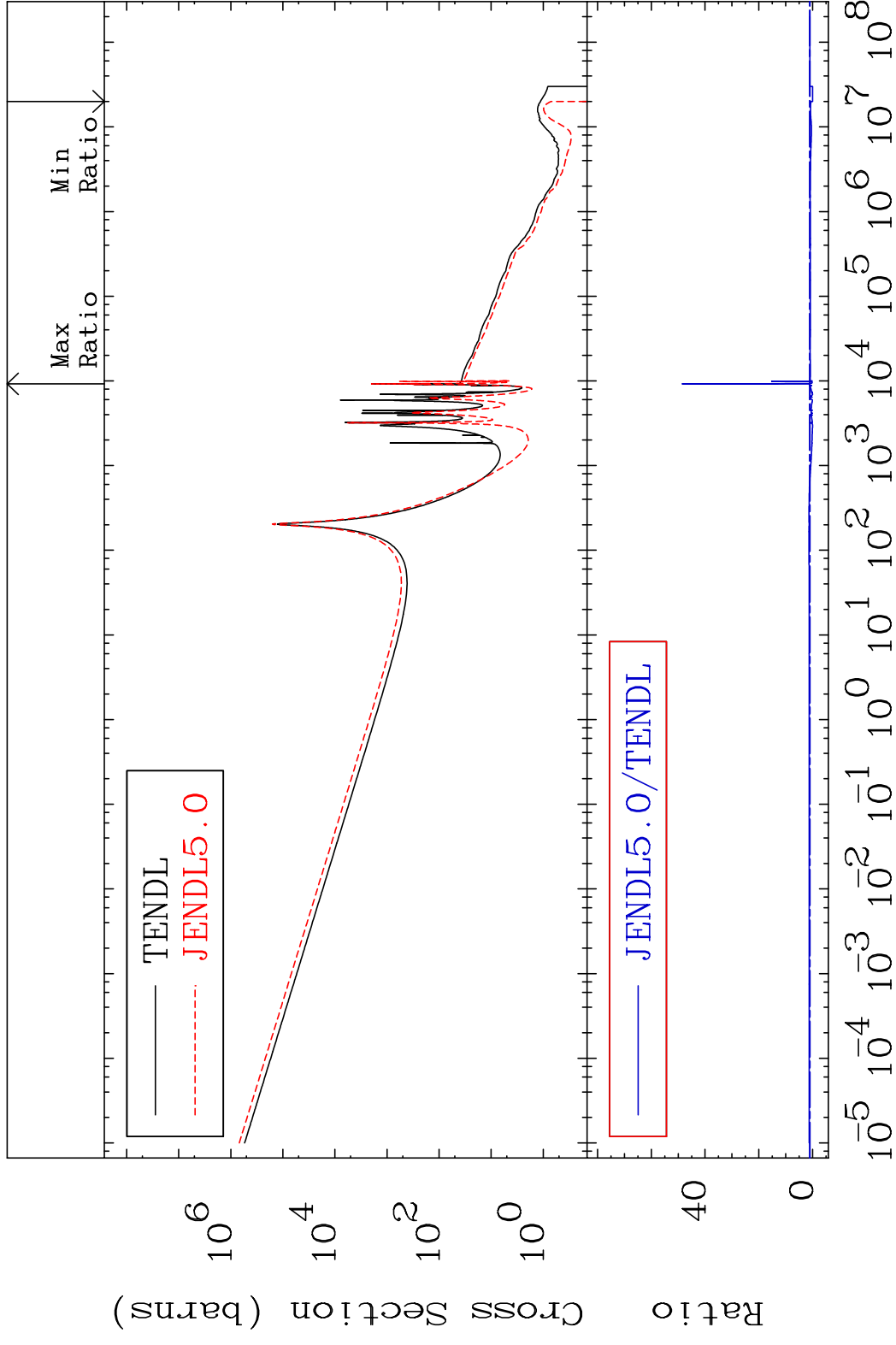
MAT 2828 Kerma inelastic (mt51-91) 28-Ni-59
 Cross Section -100.0 To 9999. %



MAT 2828 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-59
 Cross Section -100.0 To 9999. %

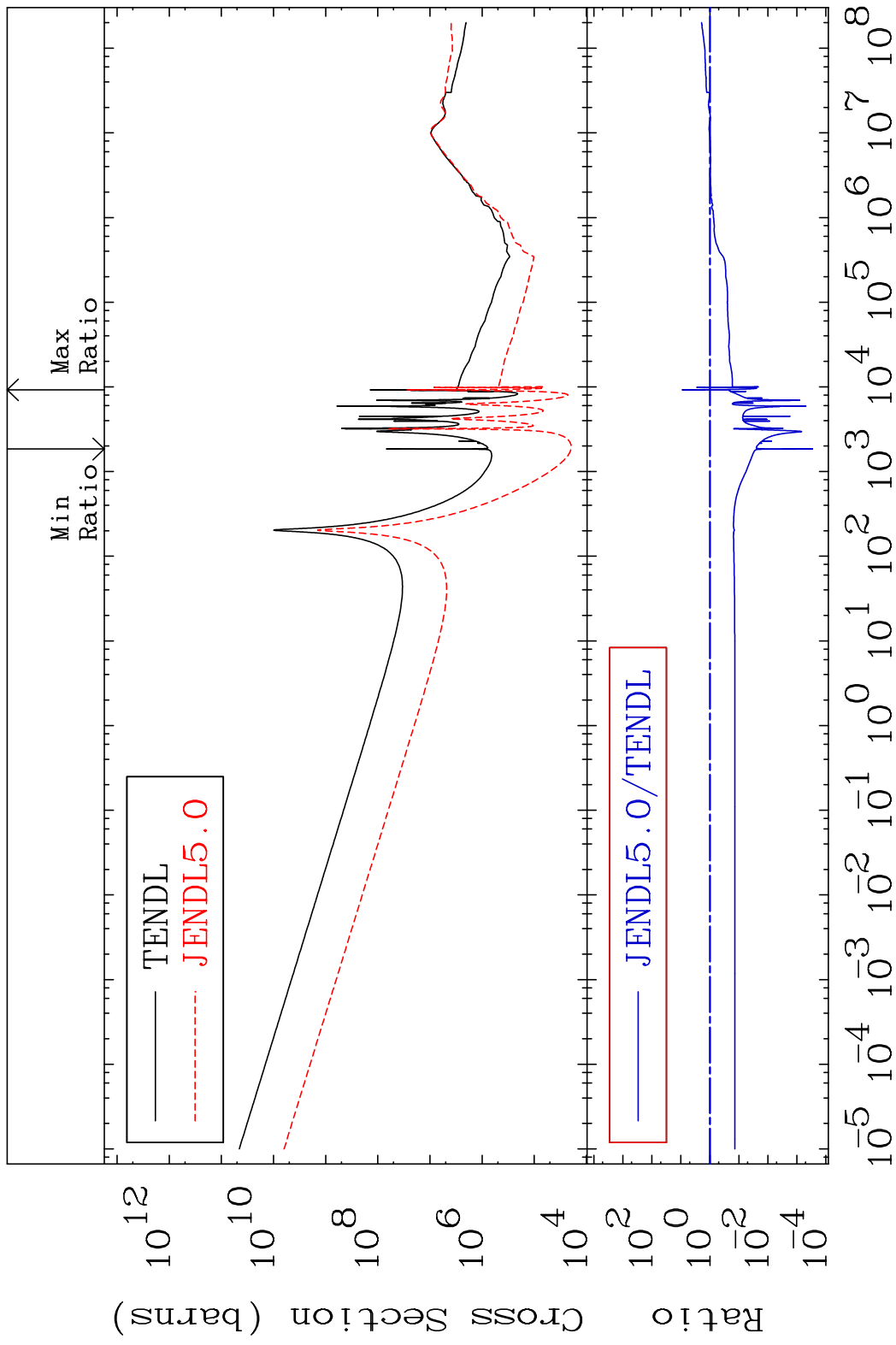


MAT 2828 Kerma capture (mt102) 28-Ni-59
 Cross Section -100.0 To 4746. %



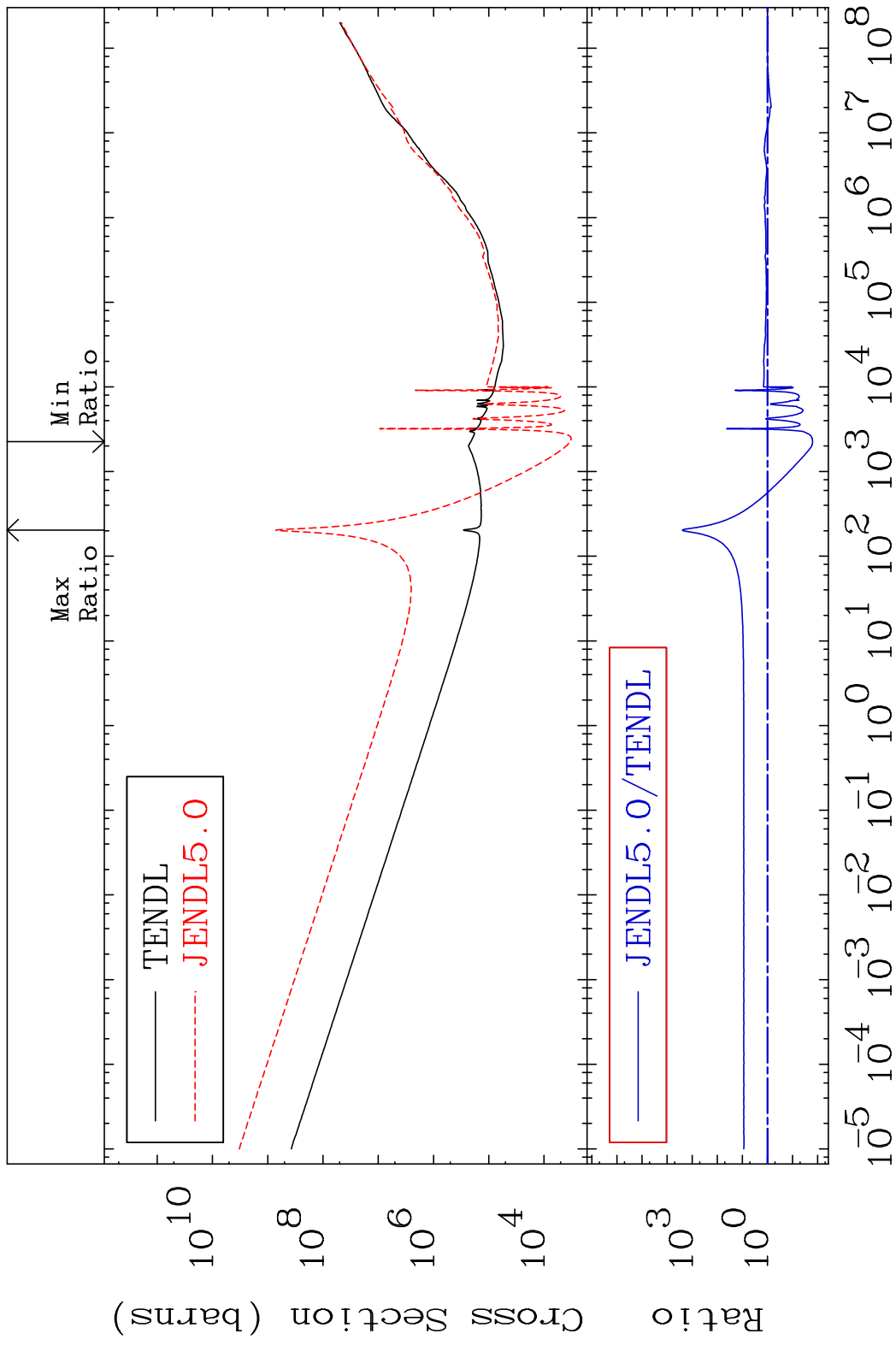
63 Incident Energy (eV) 28-Ni-59

MAT 2828 Total photon (eV-barns) 28-Ni-59
 Cross Section -99.97 To 790.7 %

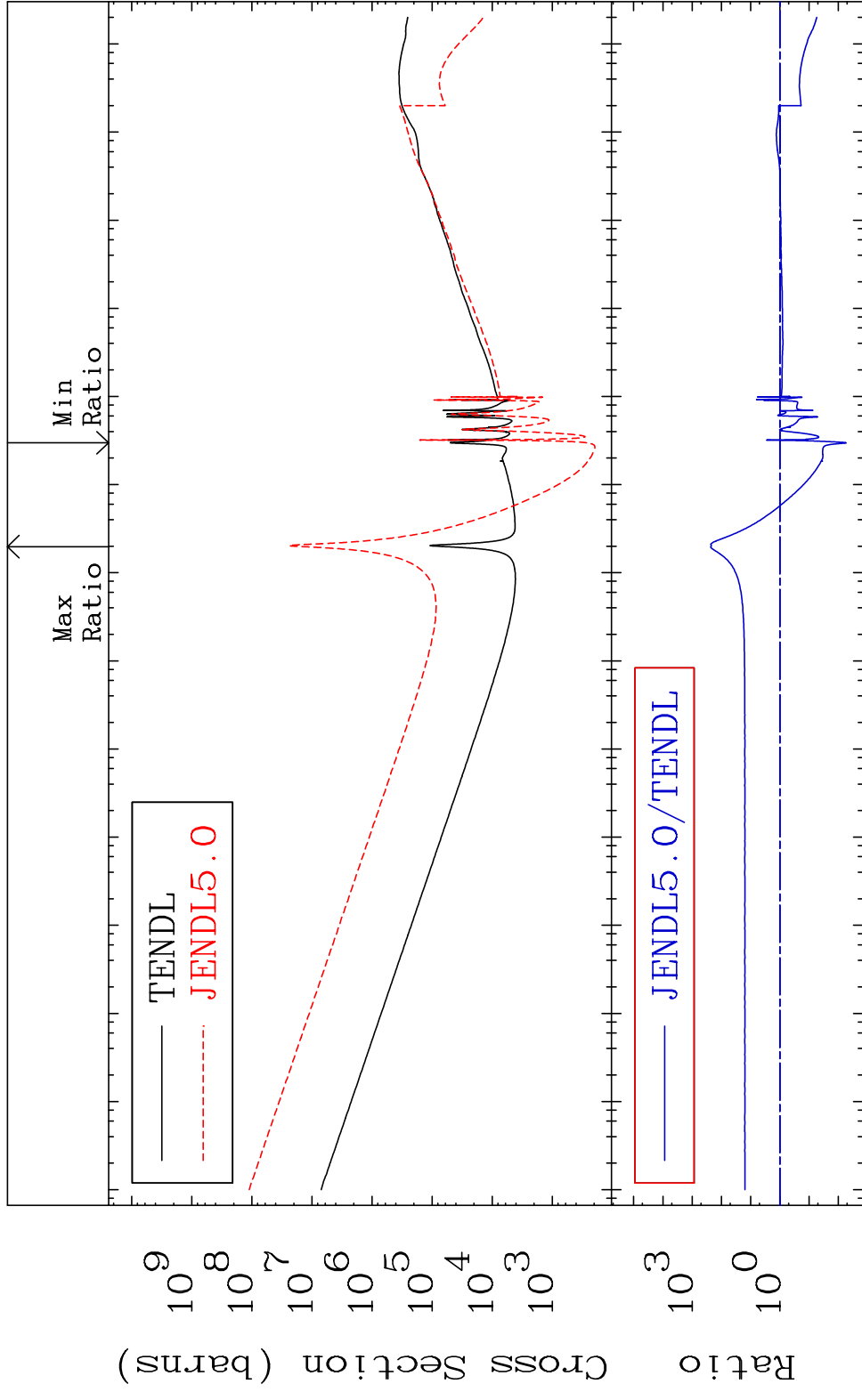


64 Incident Energy (eV) 28-Ni-59

MAT 2828 Total kinematic kerma (high limit) 28-Ni-59
Cross Section -98.41 To 9999. %



MAT 2828 Dpa total (eV-barns) 28-Ni-59
 Cross Section -99.46 To 9999. %



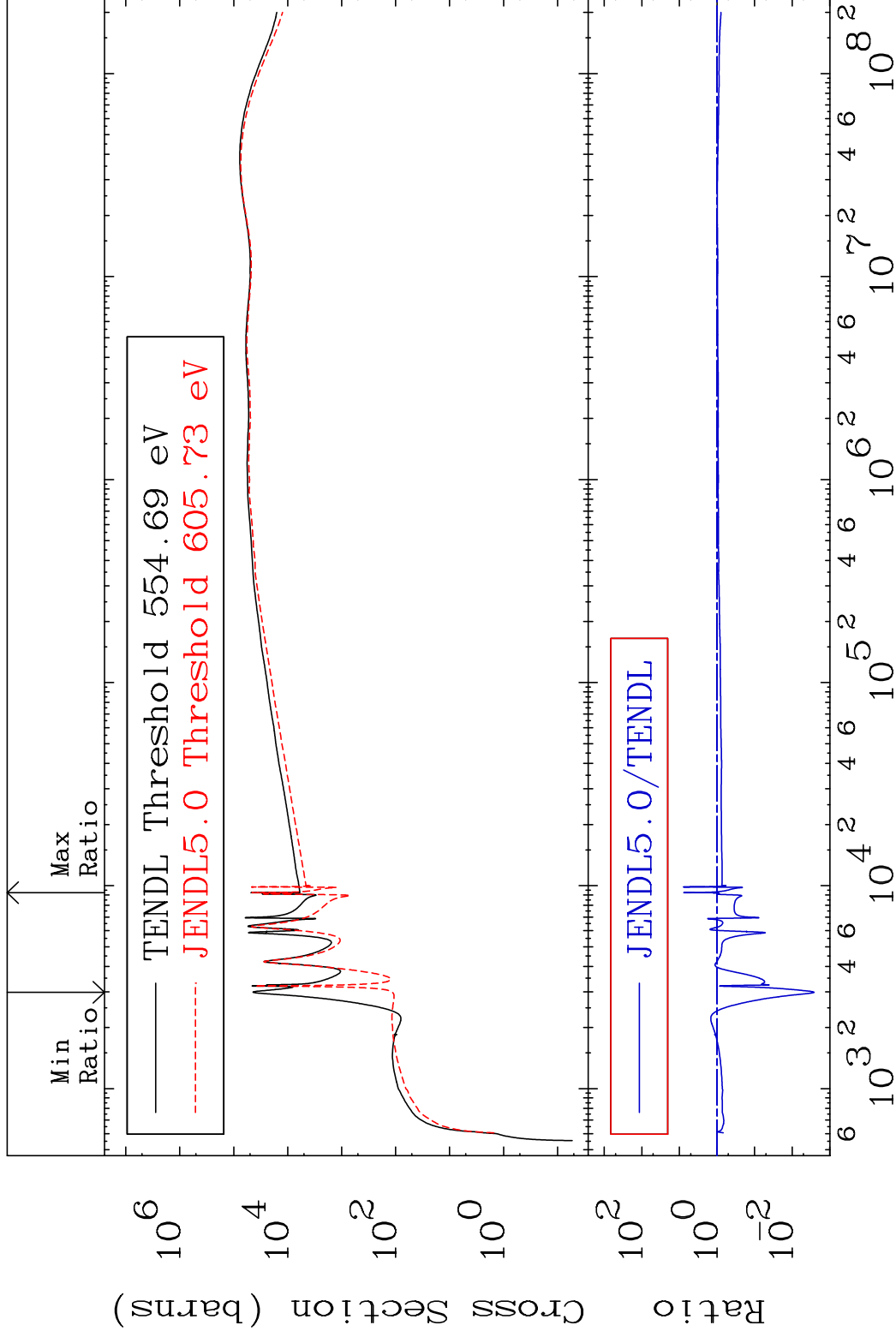
66 Incident Energy (eV) 28-Ni-59

MAT 2828

Dpa elastic (mt2)

28-Ni-59

Cross Section -99.74 To 671.6 %

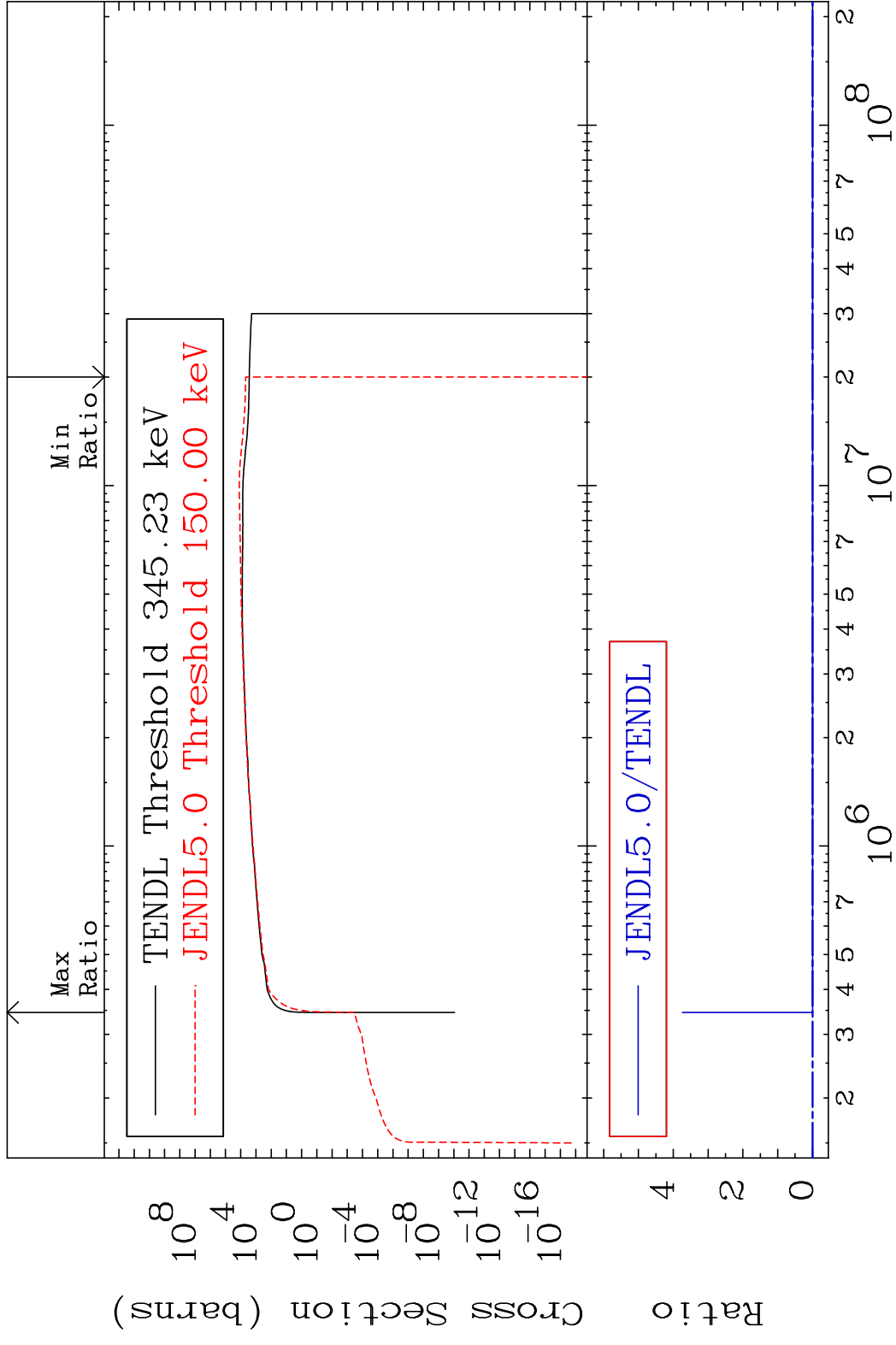


67

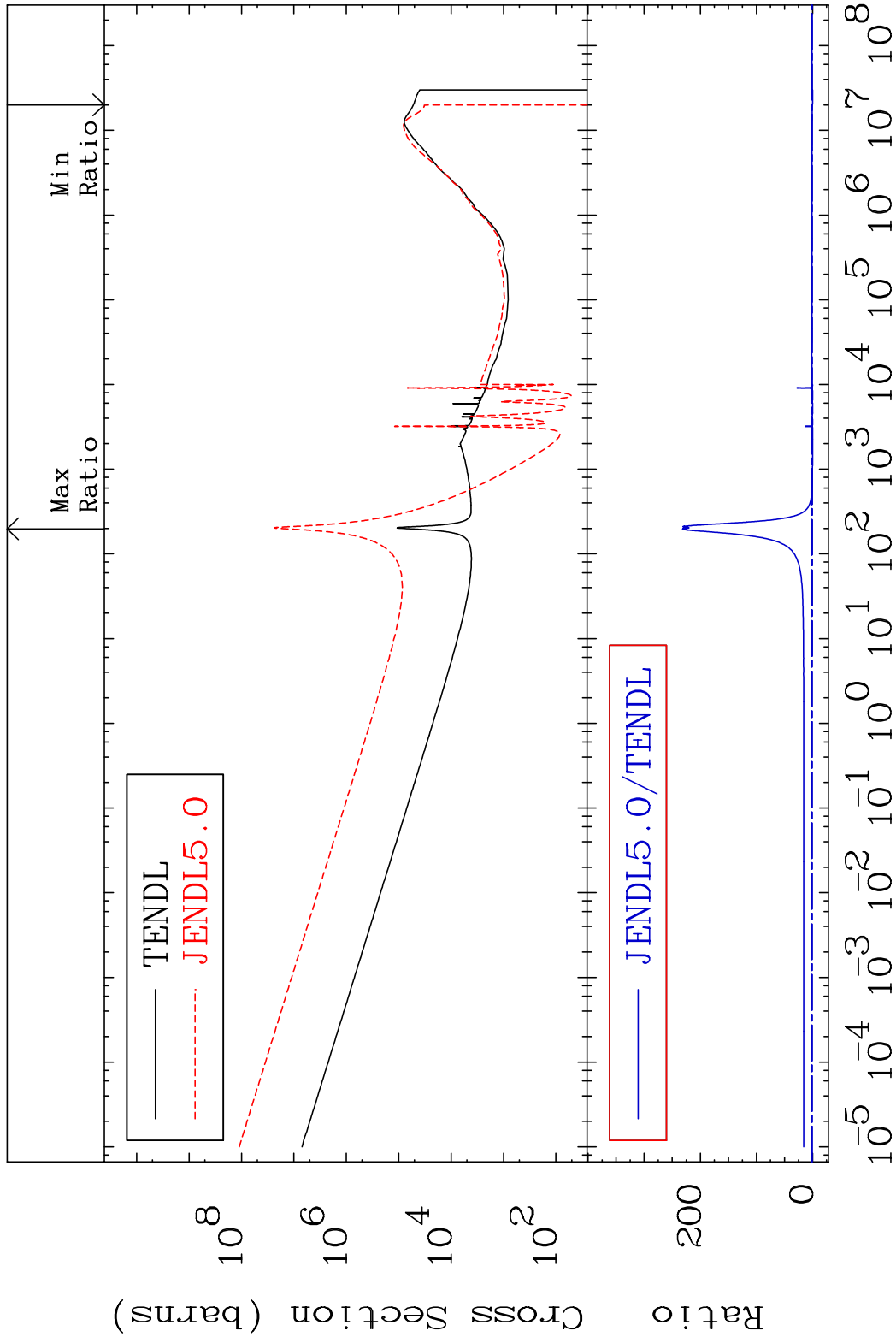
Incident Energy (eV)

28-Ni-59

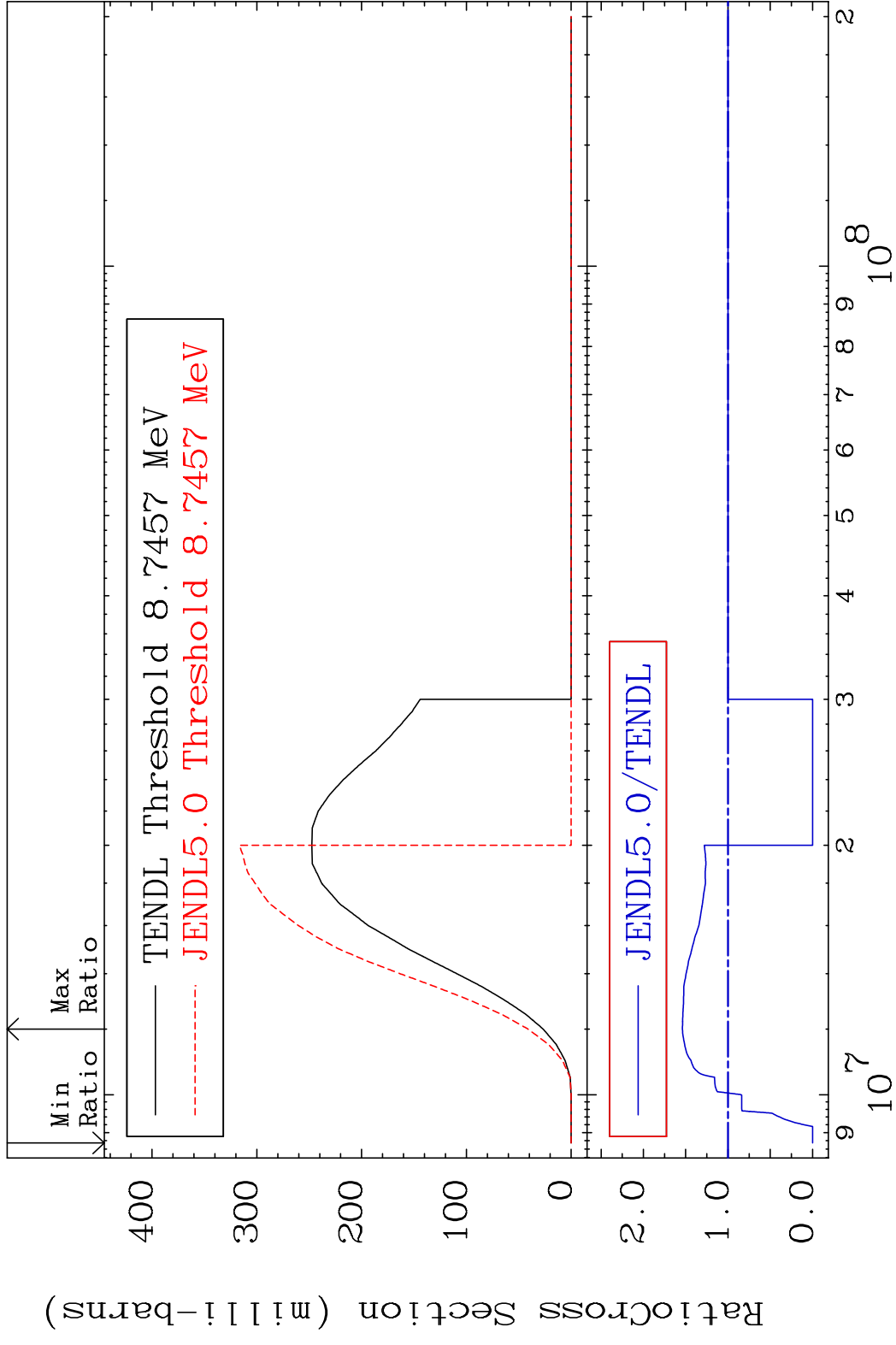
MAT 2828 Dpa inelastic (mt51-91) 28-Ni-59
 Cross Section -100.0 To 9999. %



MAT 2828 Dpa disappearance (mt102 -120) 28-Ni-59
Cross Section -100.0 To 9999. %

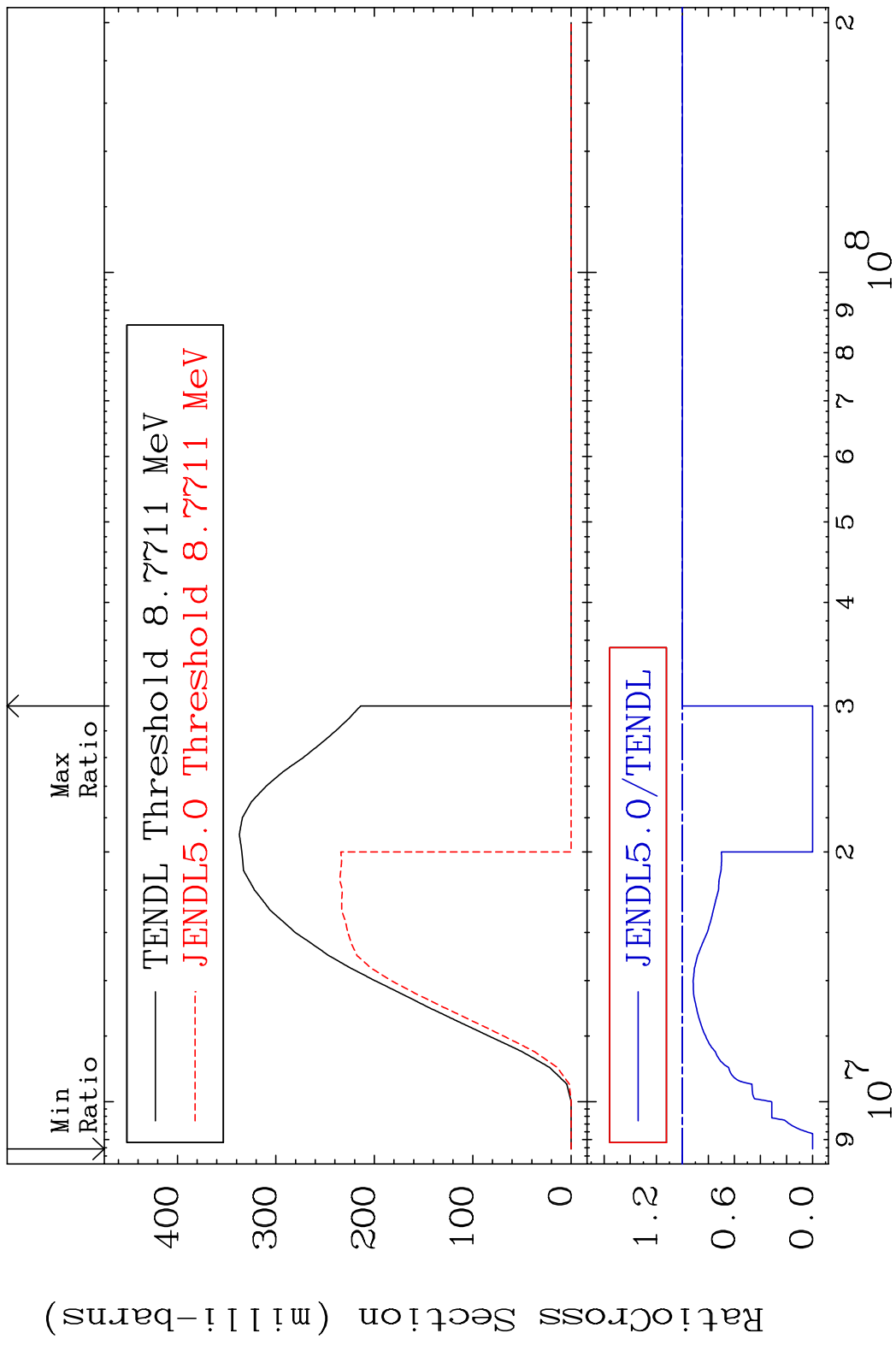


MAT 2828 (n, n') p:27-Co-58g 28-Ni-59
 Radionuclide Production Cross Section 180.01 dth 53.94 %



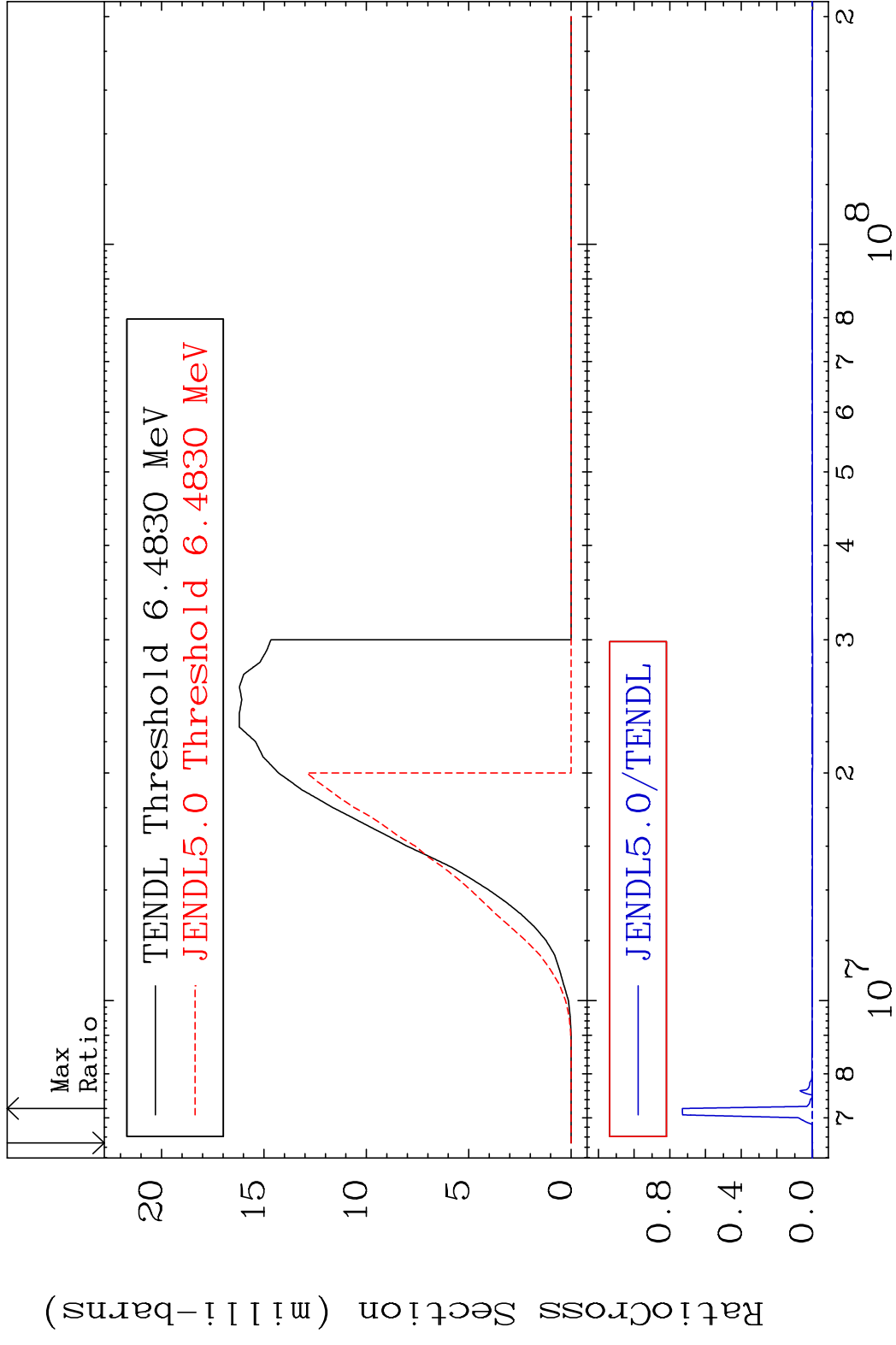
70 Incident Energy (eV) 28-Ni-59

MAT 2828 (n, n') p:27-Co-58m1 28-Ni-59
 Radionuclide Production Cross Section Ratio 0.000 %



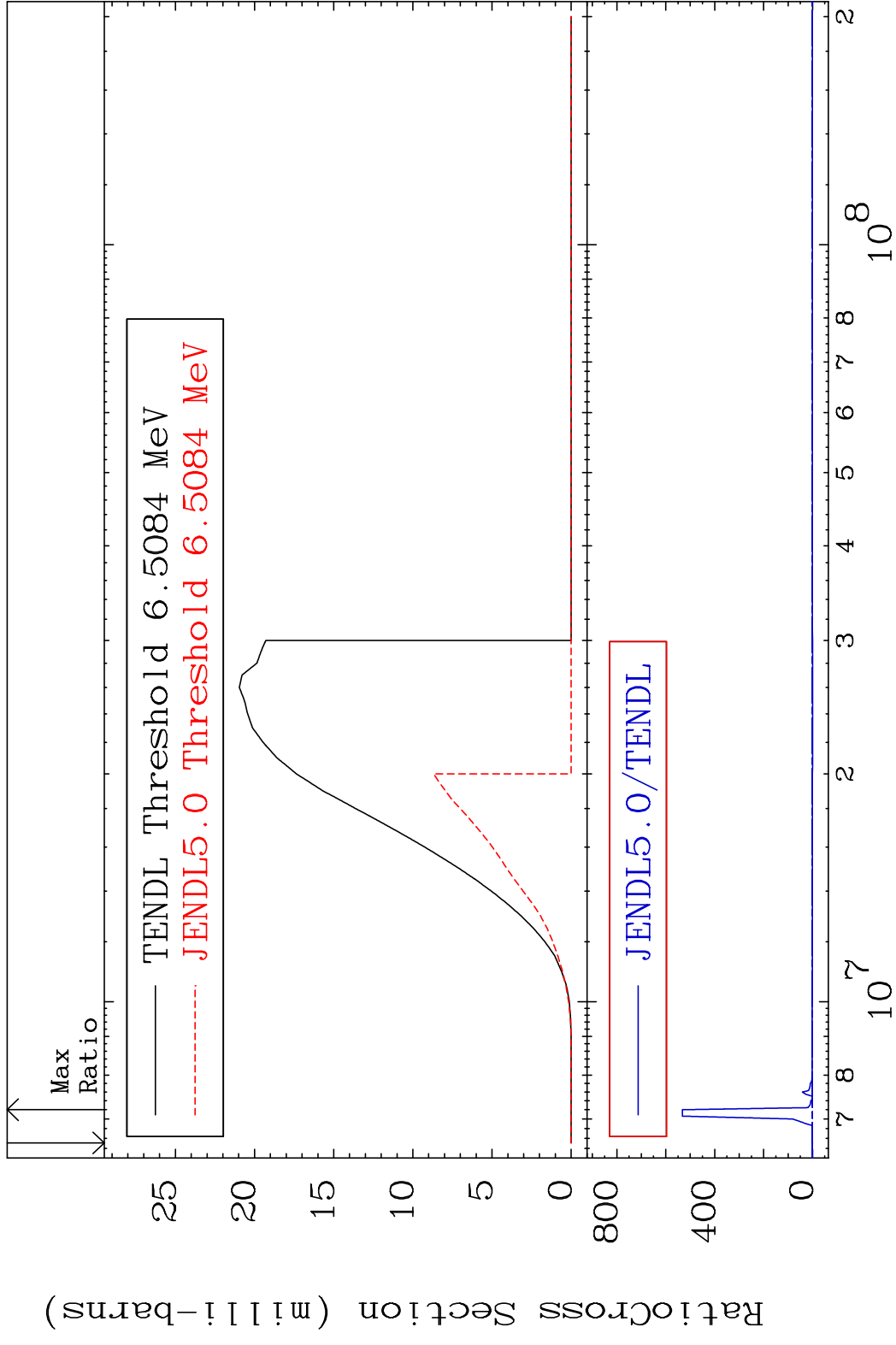
71 Incident Energy (eV) 28-Ni-59

MAT 2828 (n,d):27-Co-58g 28-Ni-59
 Radionuclide Production Cross Section Ratio 9999. %



72 Incident Energy (eV) 28-Ni-59

MAT 2828 (n,d):27-Co-58m1 28-Ni-59
 Radionuclide Production Cross Section 100.00 %



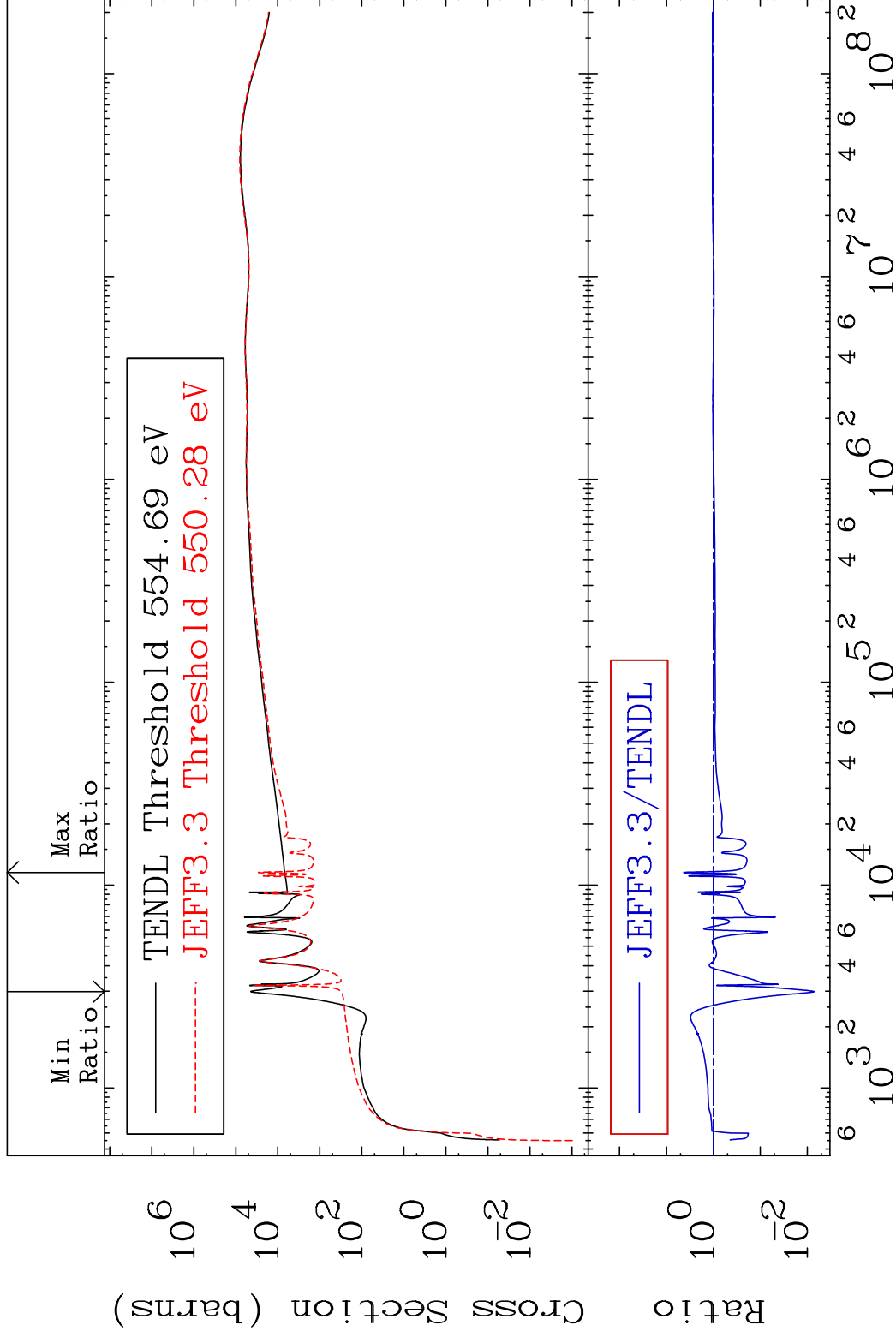
73 28-Ni-59

MAT 2828

Dpa elastic (mt2)

28-Ni-59

Cross Section -99.29 To 330.3 %



74

Incident Energy (eV)

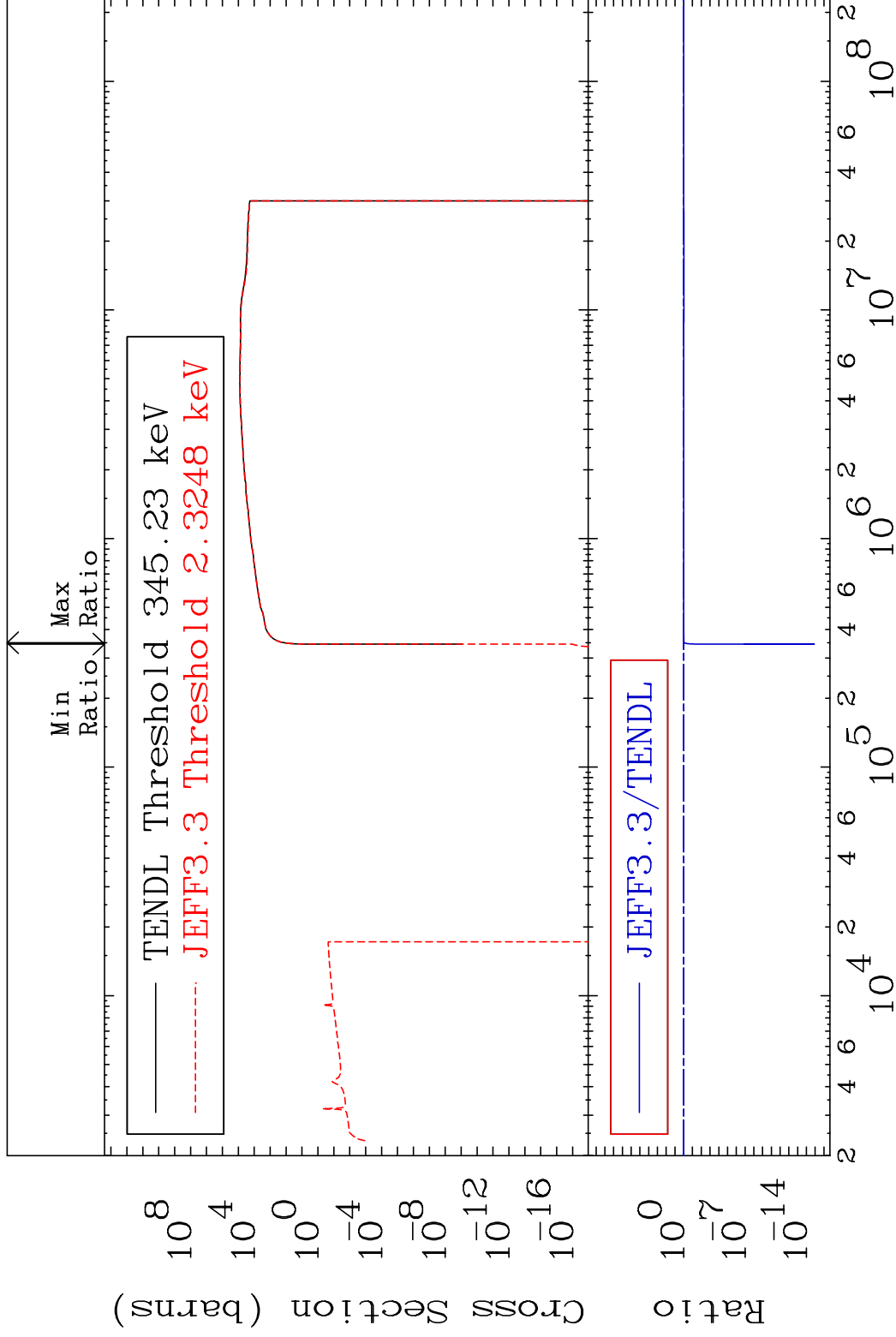
28-Ni-59

MAT 2828

Dpa inelastic (mt51-91)

28-Ni-59

Cross Section -100.0 To 1.703 %

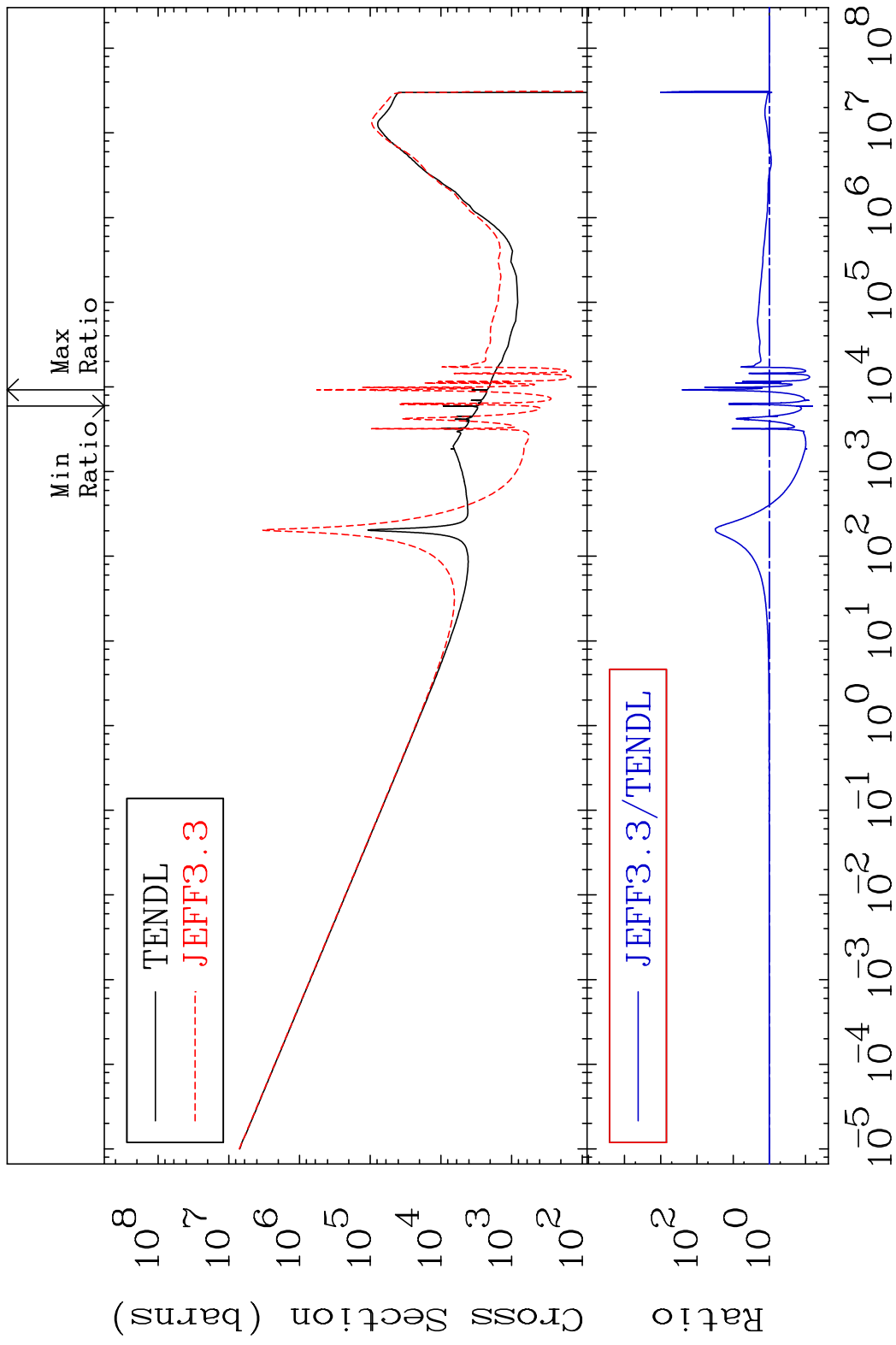


75

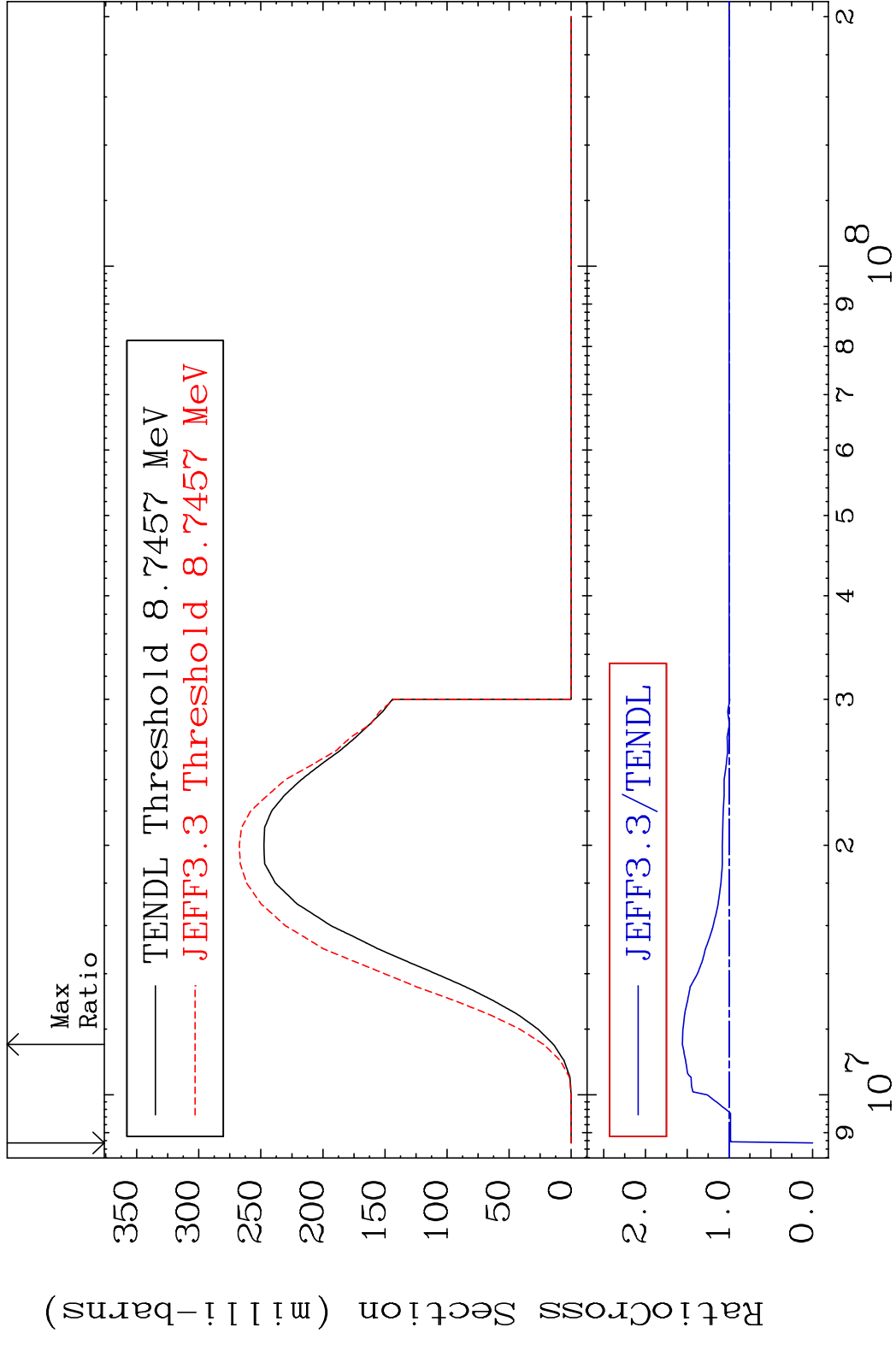
Incident Energy (eV)

28-Ni-59

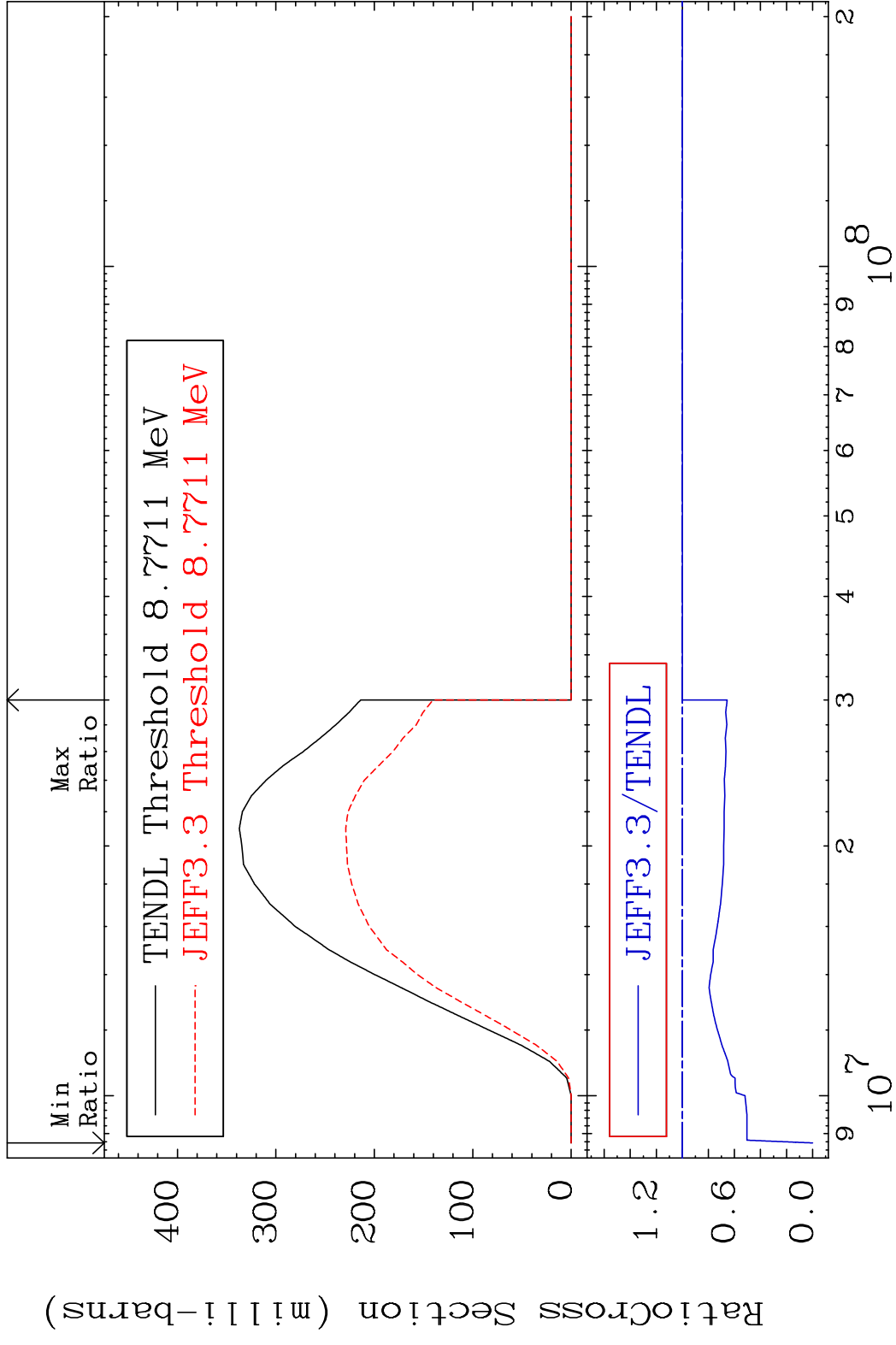
MAT 2828 Dpa disappearance (mt102 -120) 28-Ni-59
 Cross Section -93.58 To 9999. %



MAT 2828 (n, n') p:27-Co-58g 28-Ni-59
 Radionuclide Production Cross Section 180.01 dth 55.90 %

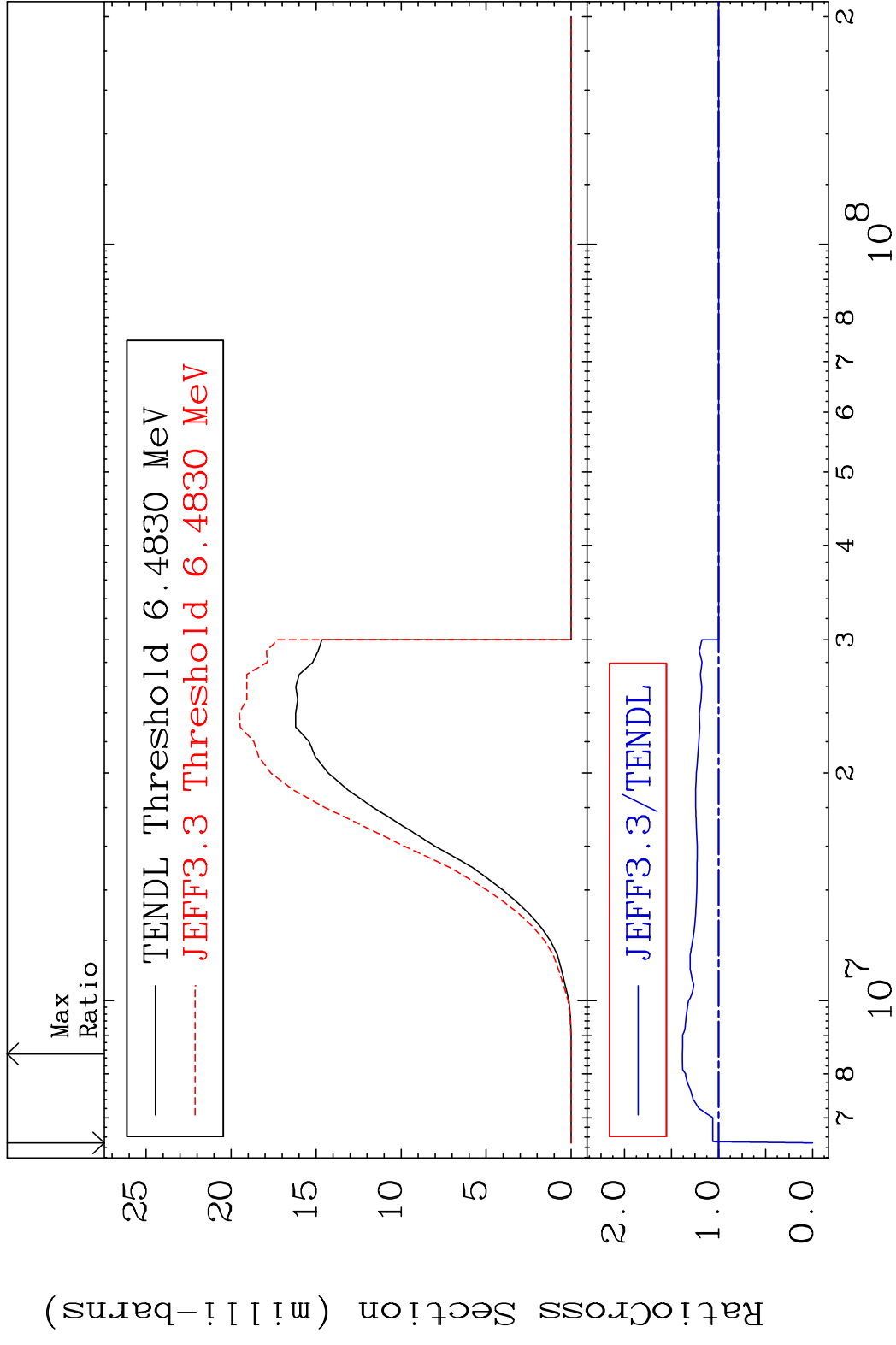


MAT 2828 (n, n') p:27-Co-58m1 28-Ni-59
 Radionuclide Production Cross Section Ratio 0.000 %



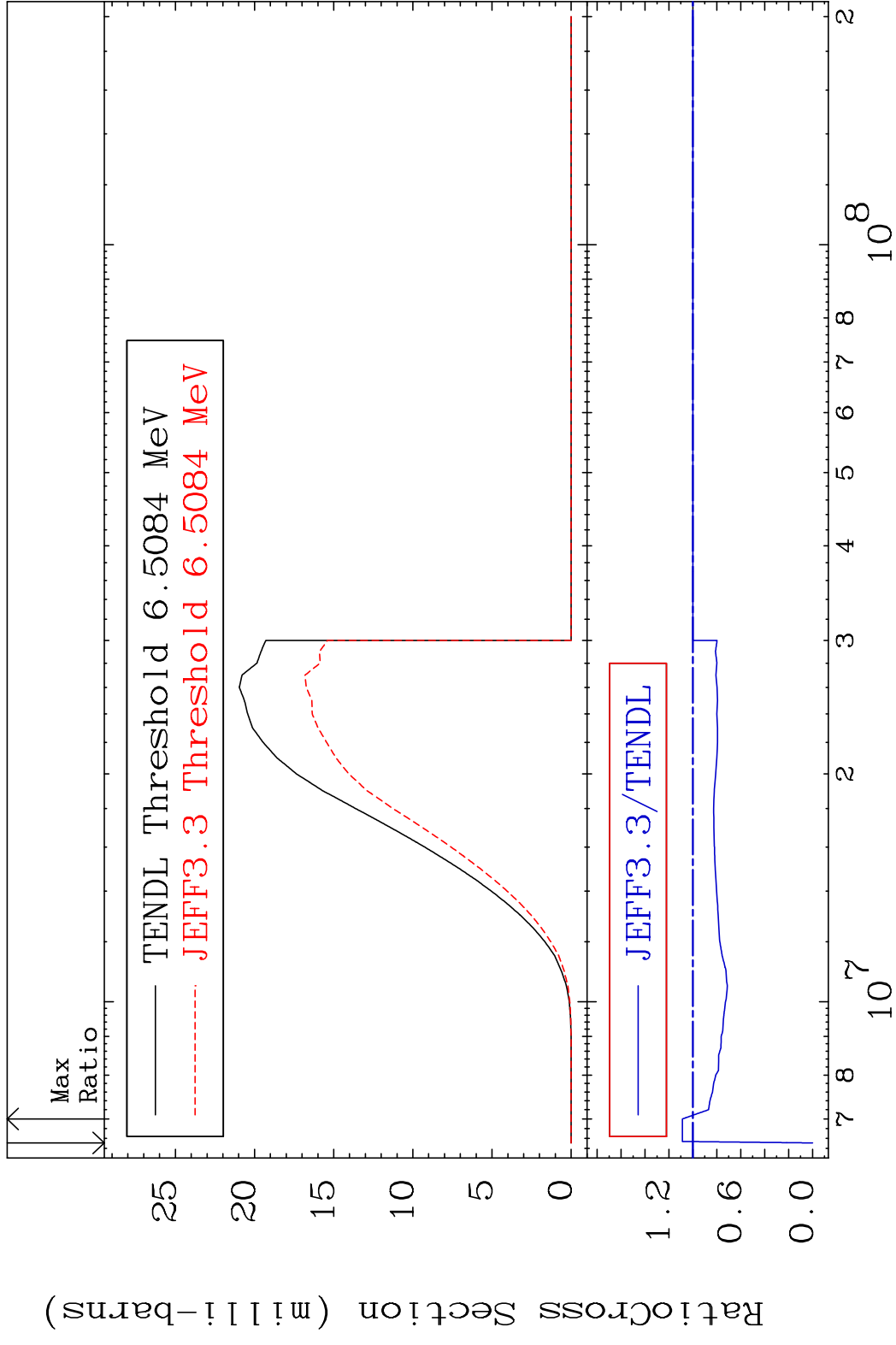
78 Incident Energy (eV) 28-Ni-59

MAT 2828 (n,d):27-Co-58g 28-Ni-59
 Radionuclide Production Cross Section 180.01 dth 38.48 %



79 Incident Energy (eV) 28-Ni-59

MAT 2828 (n,d):27-Co-58m1 28-Ni-59
 Radionuclide Production Cross Section Ratio 8.788 %



80 Incident Energy (eV) 28-Ni-59