

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

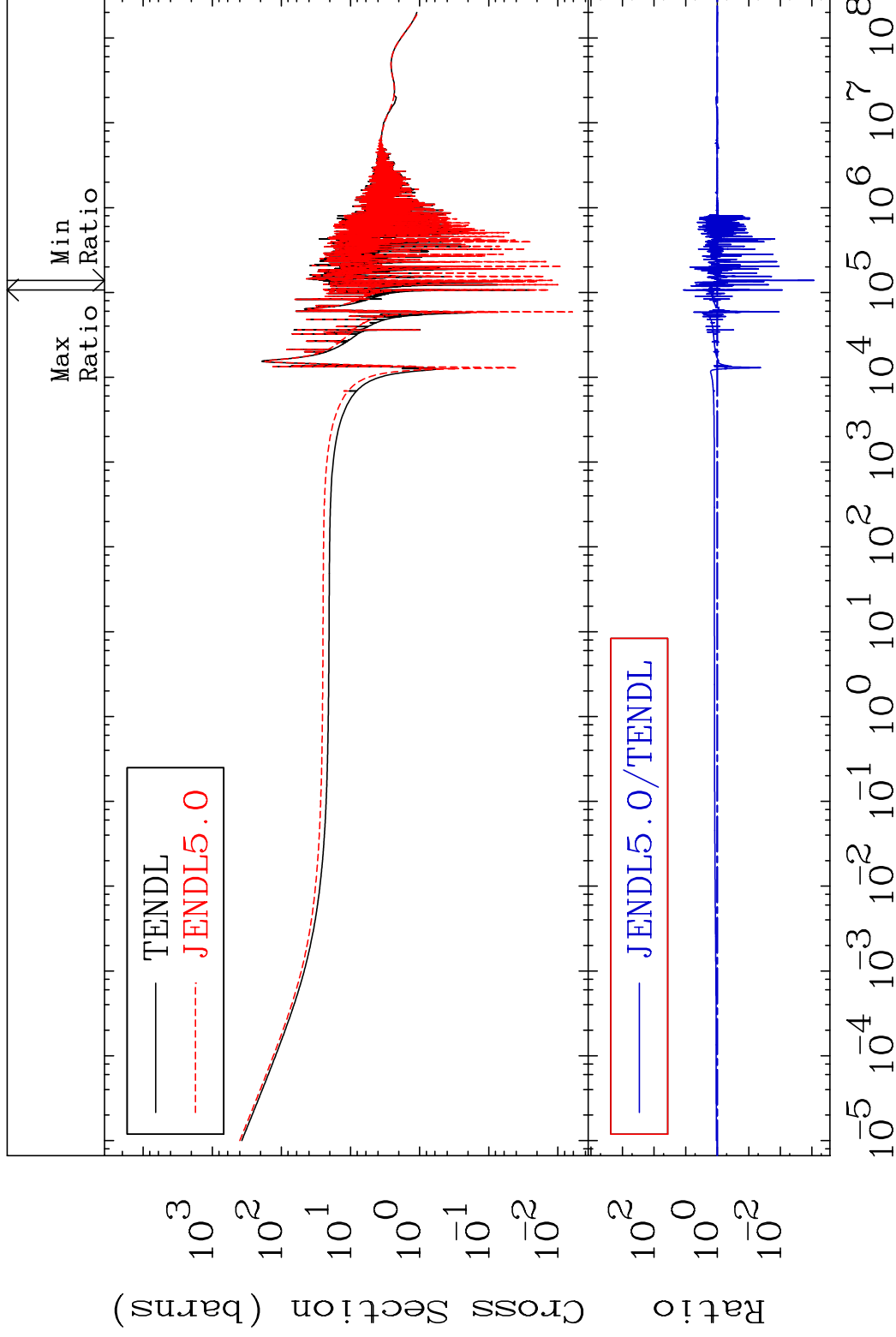
MAT 2825

Total

28-Ni-58

Cross Section

-99.92 To 1055. %



1

Incident Energy (eV)

28-Ni-58

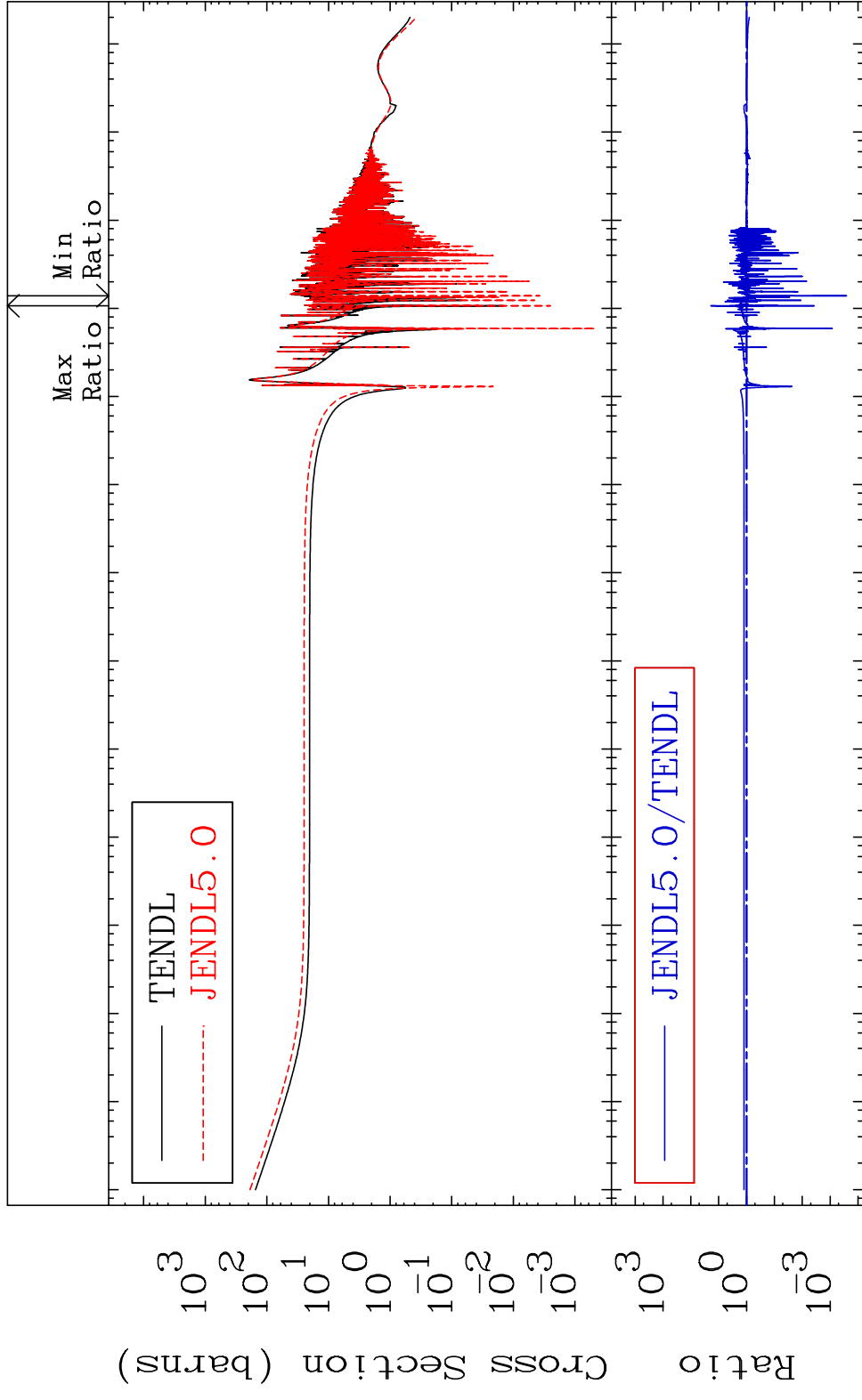
MAT 2825

Elastic

28-Ni-58

Cross Section

-99.97 To 1833. %



Ratio

Cross Section (barns)

10³

10²

10¹

10⁰

10⁻¹

10⁻²

10⁻³

10³

10⁰

10⁻³

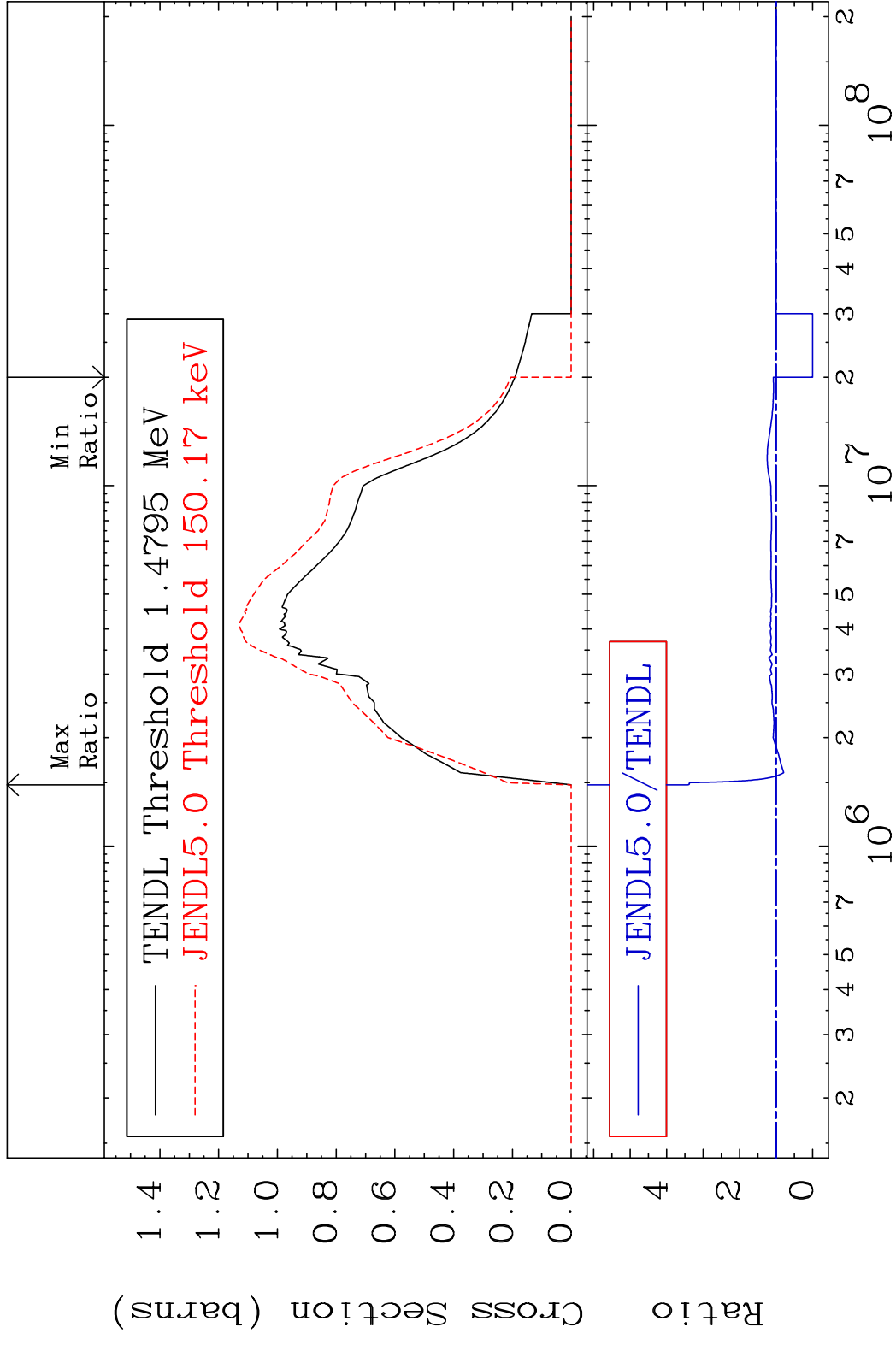
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

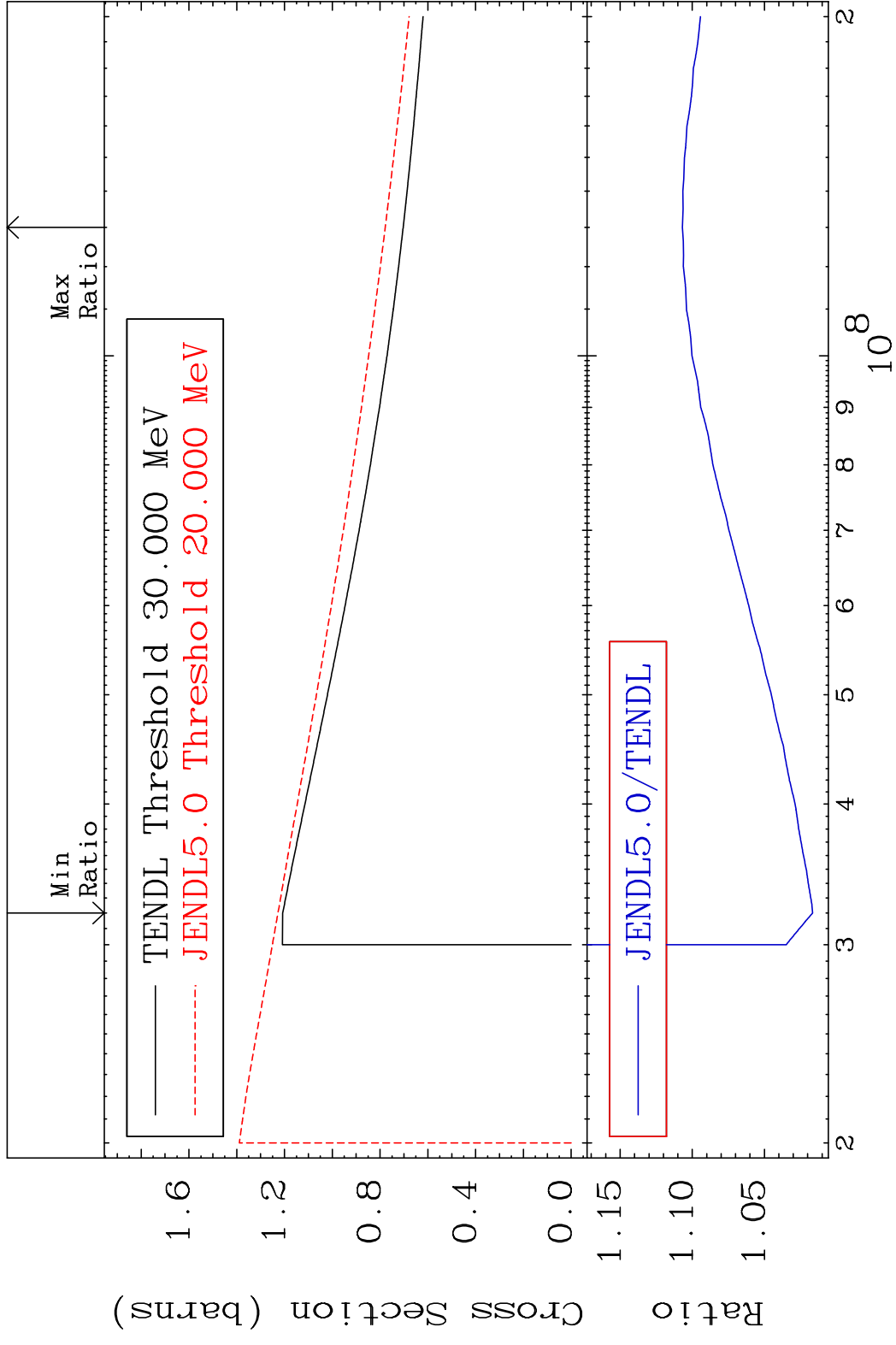
Incident Energy (eV)

28-Ni-58

MAT 2825 Inelastic ²⁸Ni-58
 Cross Section -100.0 To 256.8 %

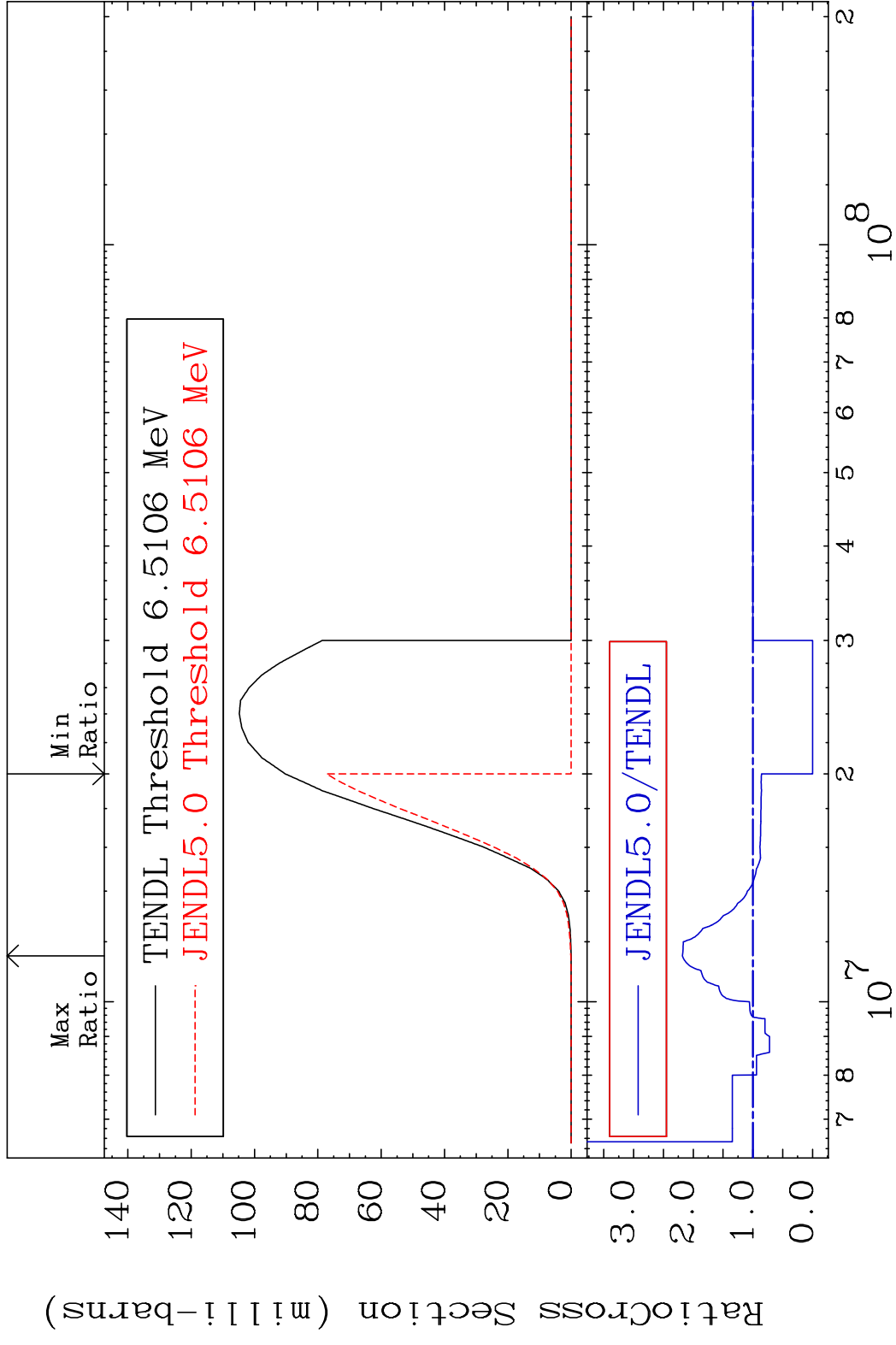


MAT 2825 (n, remainder) 28-Ni-58
 Cross Section 1.663 To 10.69 %



4 Incident Energy (eV) 28-Ni-58

MAT 2825 (n, n') α 28-Ni-58
 Cross Section -100.0 To 118.3 %

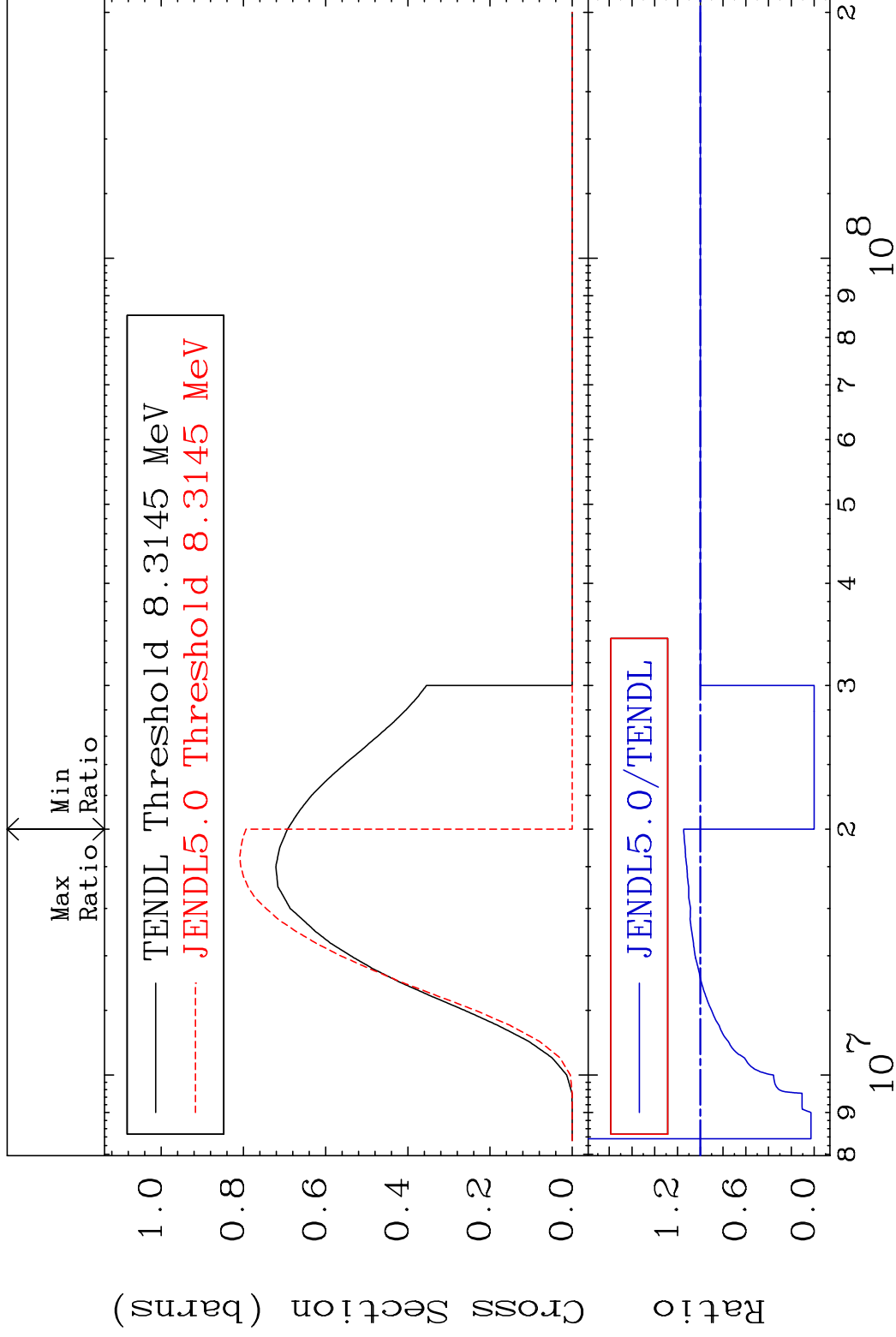


MAT 2825

(n, n') p

28-Ni-58

Cross Section -100.0 To 14.59 %

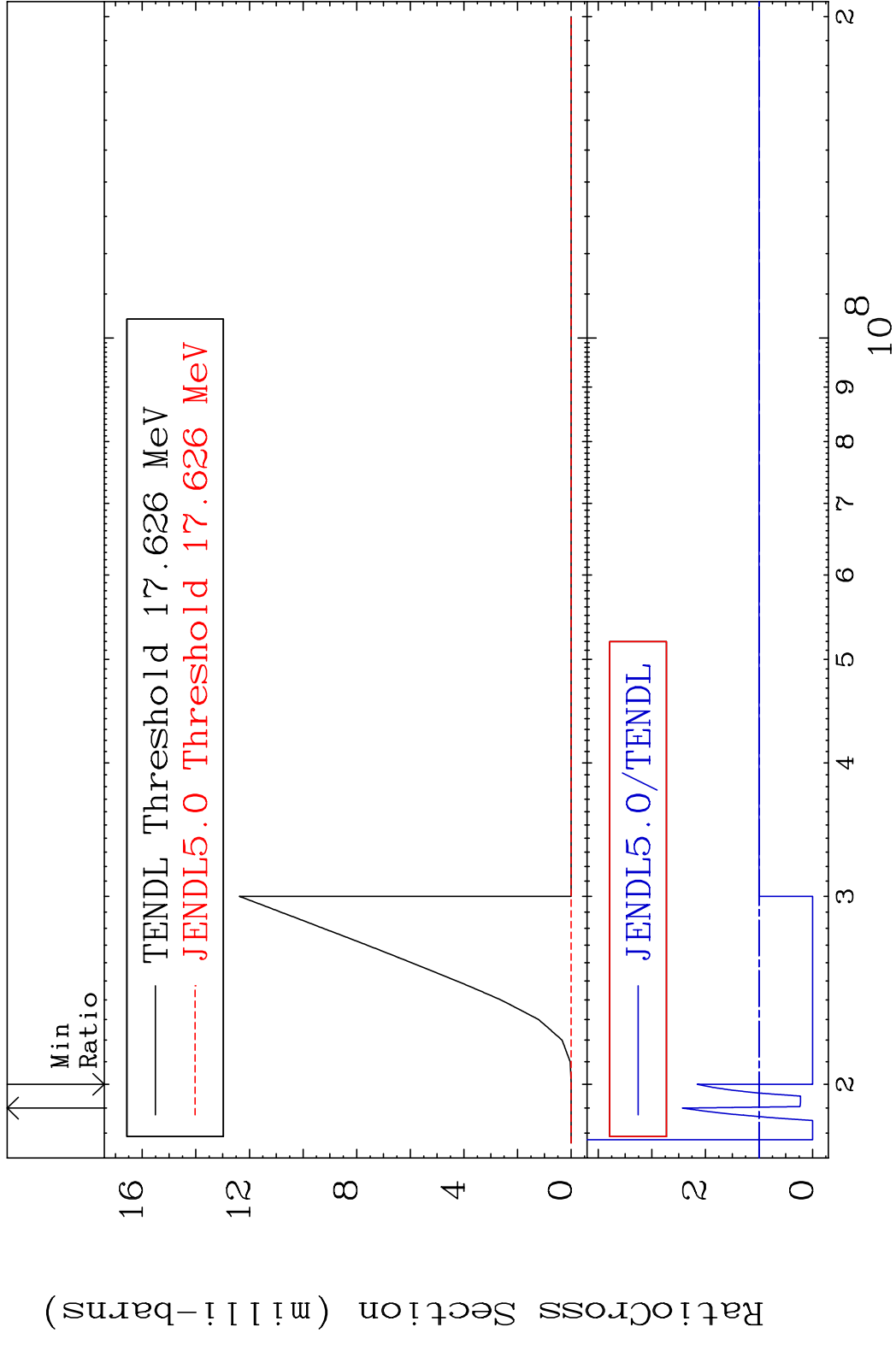


7

Incident Energy (eV)

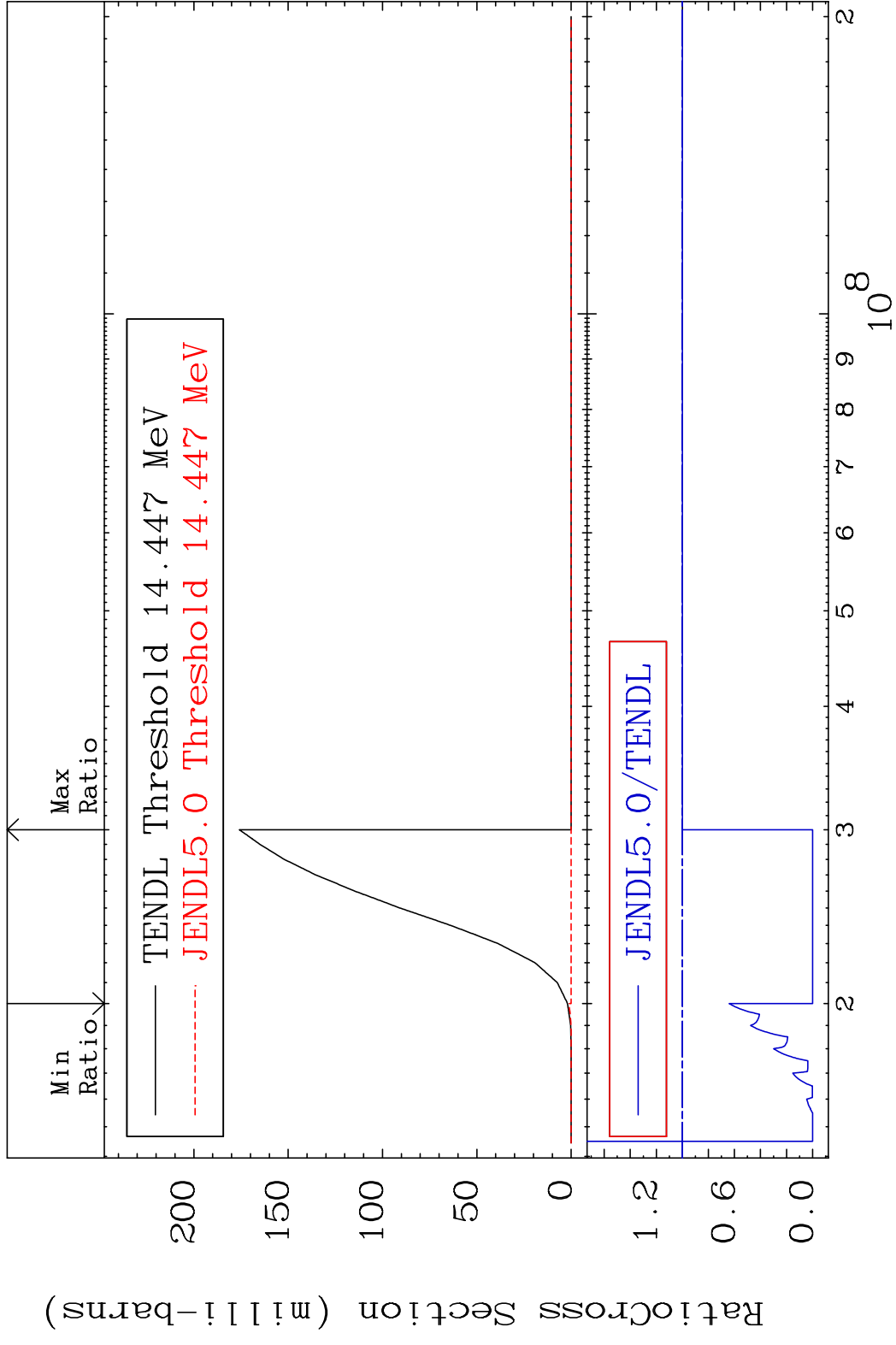
28-Ni-58

MAT 2825 (n, n') d 28-Ni-58
 Cross Section -100.0 To 143.1 %

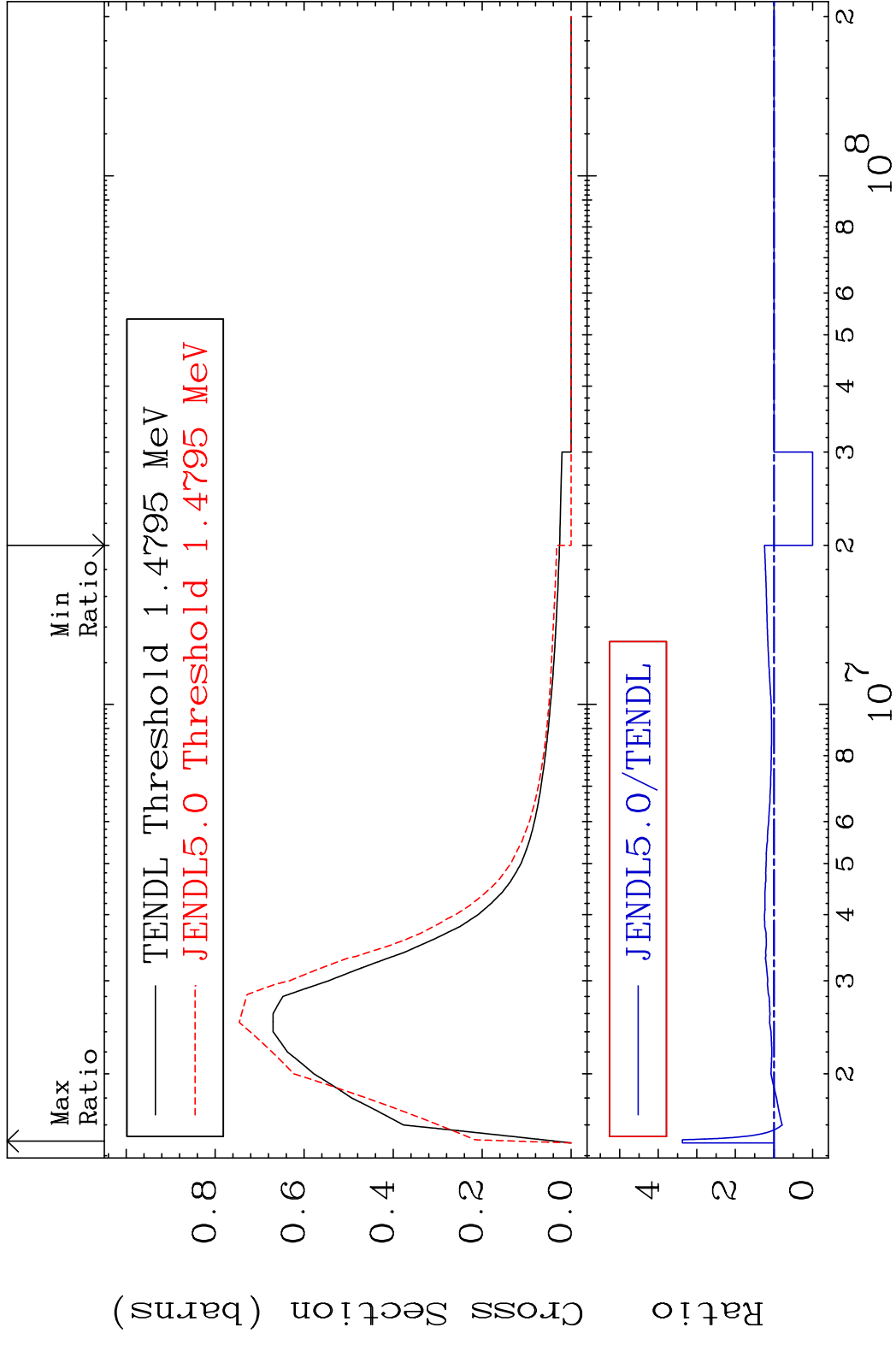


8 Incident Energy (eV) 28-Ni-58

MAT 2825 (n,2n) p 28-Ni-58
 Cross Section -100.0 To 0.000 %

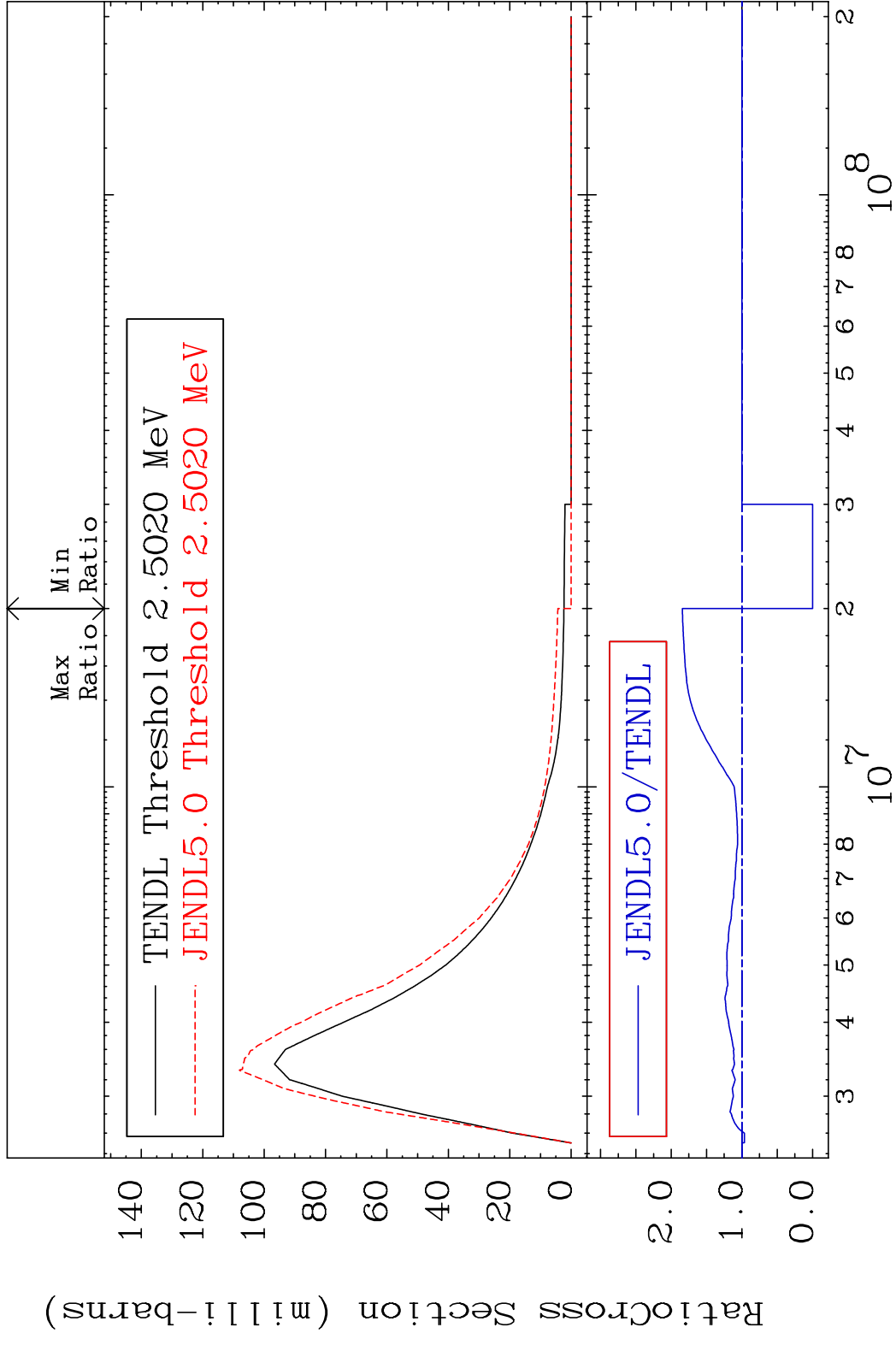


MAT 2825 MT= 51 (n,n') Level 28-Ni-58
 Cross Section -100.0 To 237.5 %

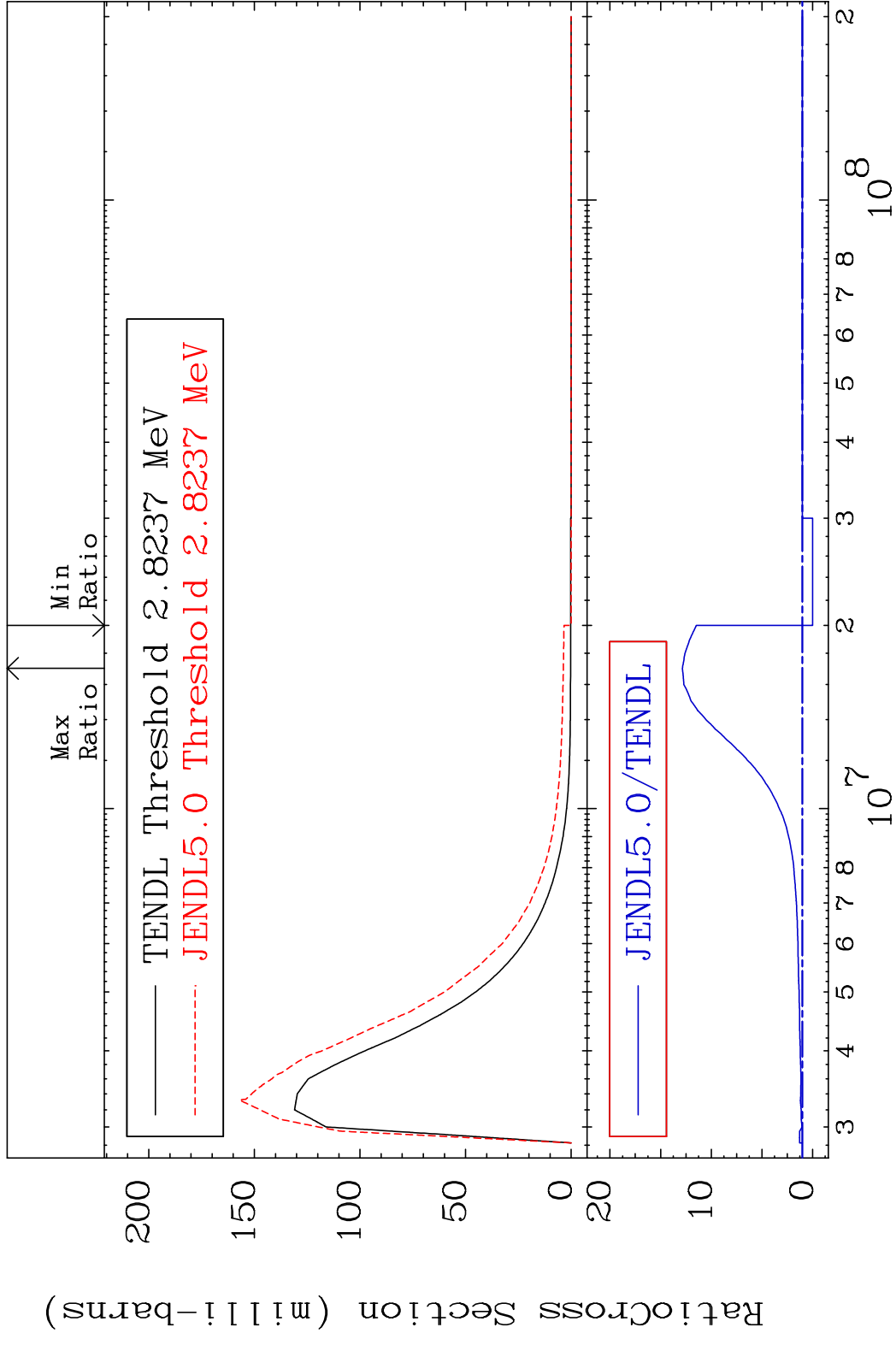


10 Incident Energy (eV) 28-Ni-58

MAT 2825 MT= 52 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 84.24 %

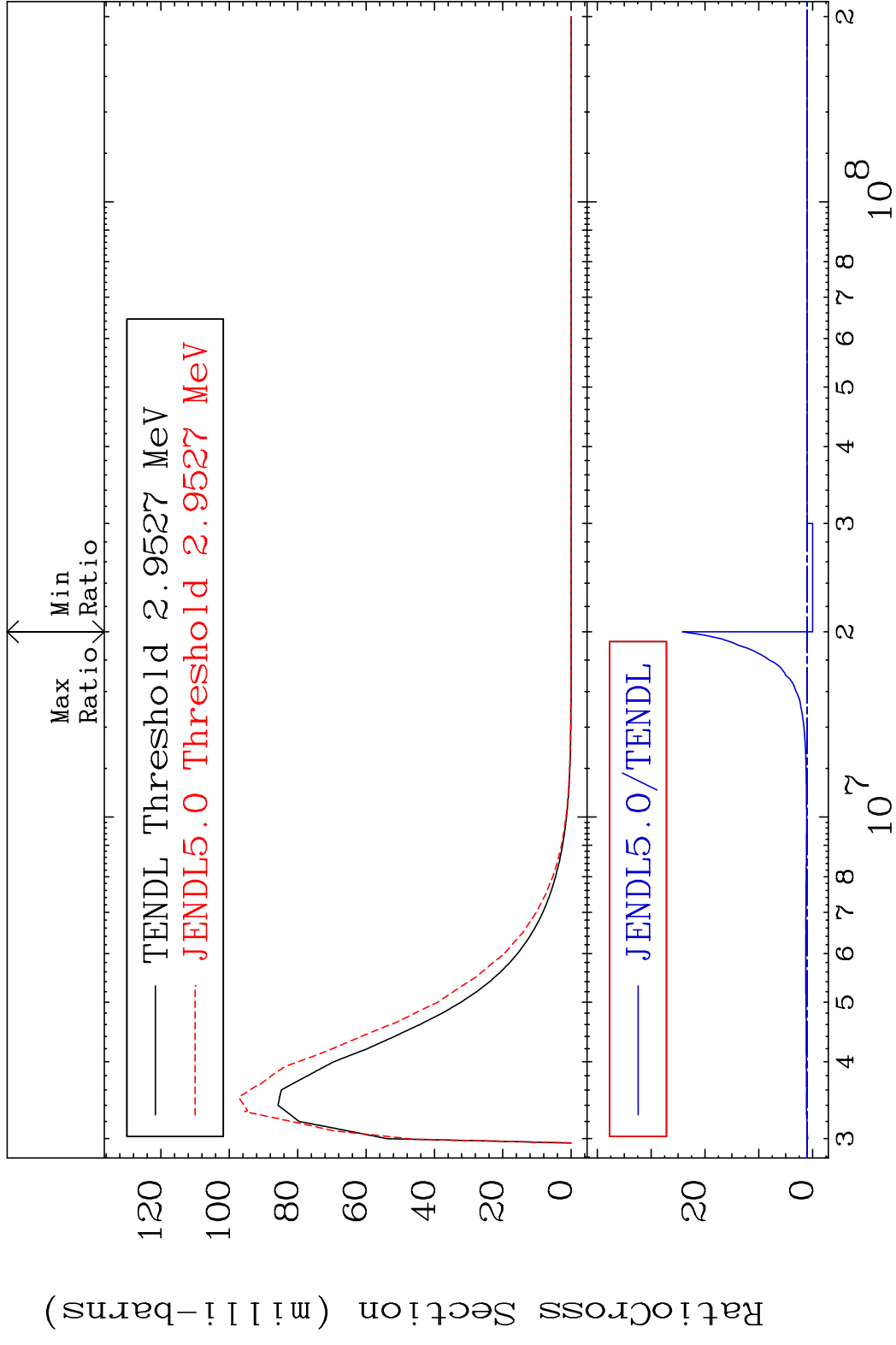


MAT 2825 MT= 53 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 1185. %

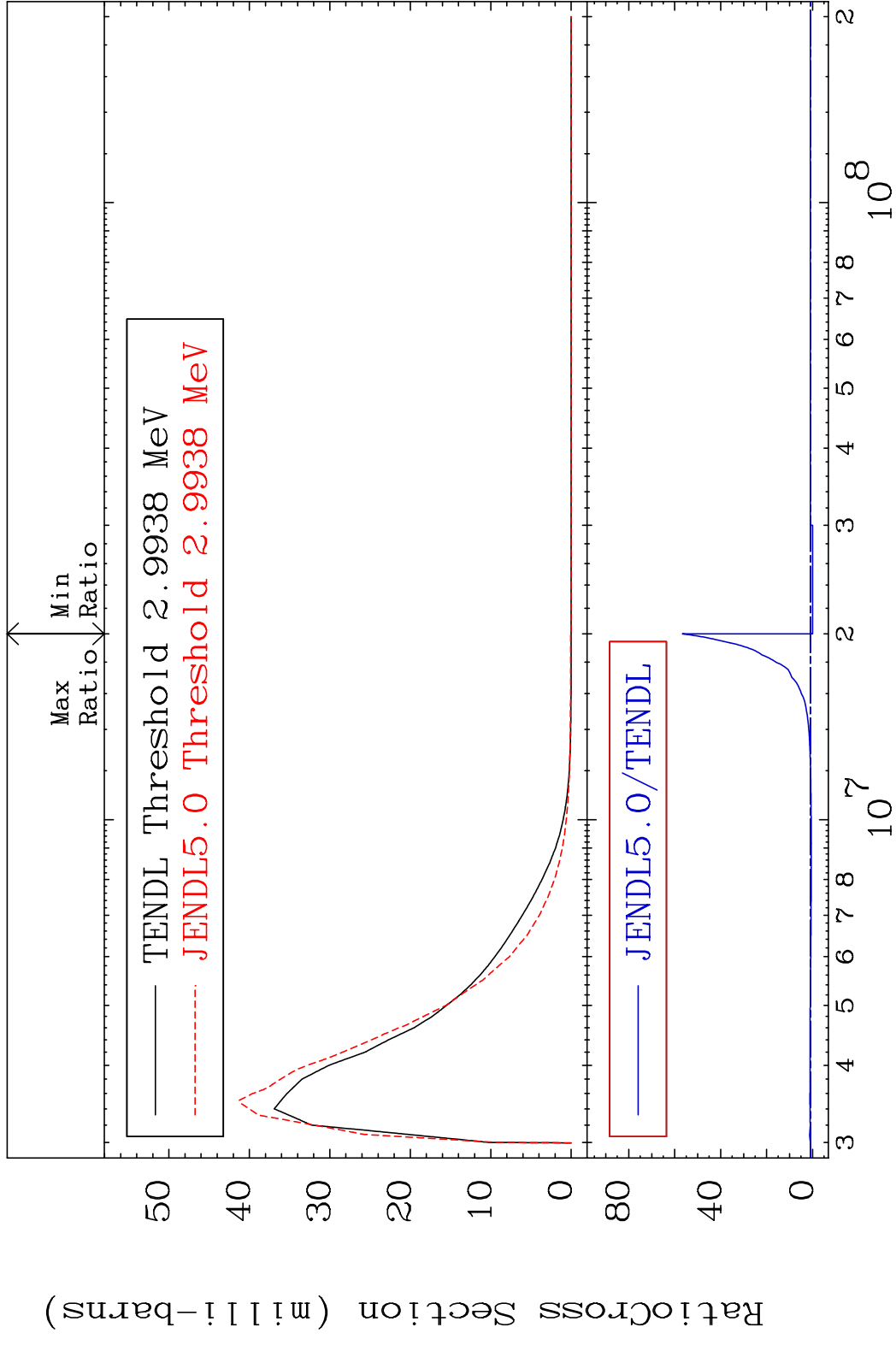


12 28-Ni-58

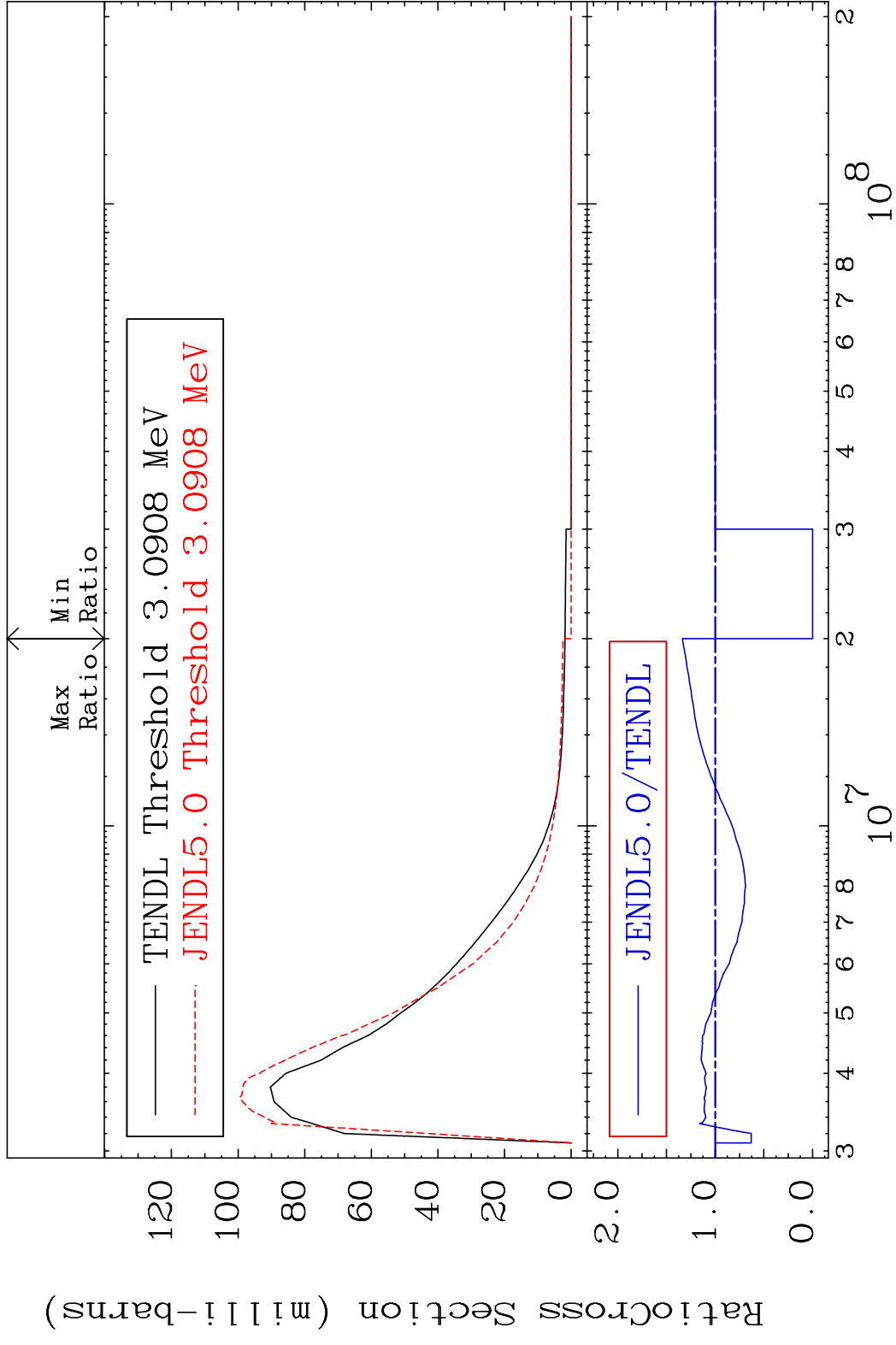
MAT 2825 MT= 54 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 2319. %



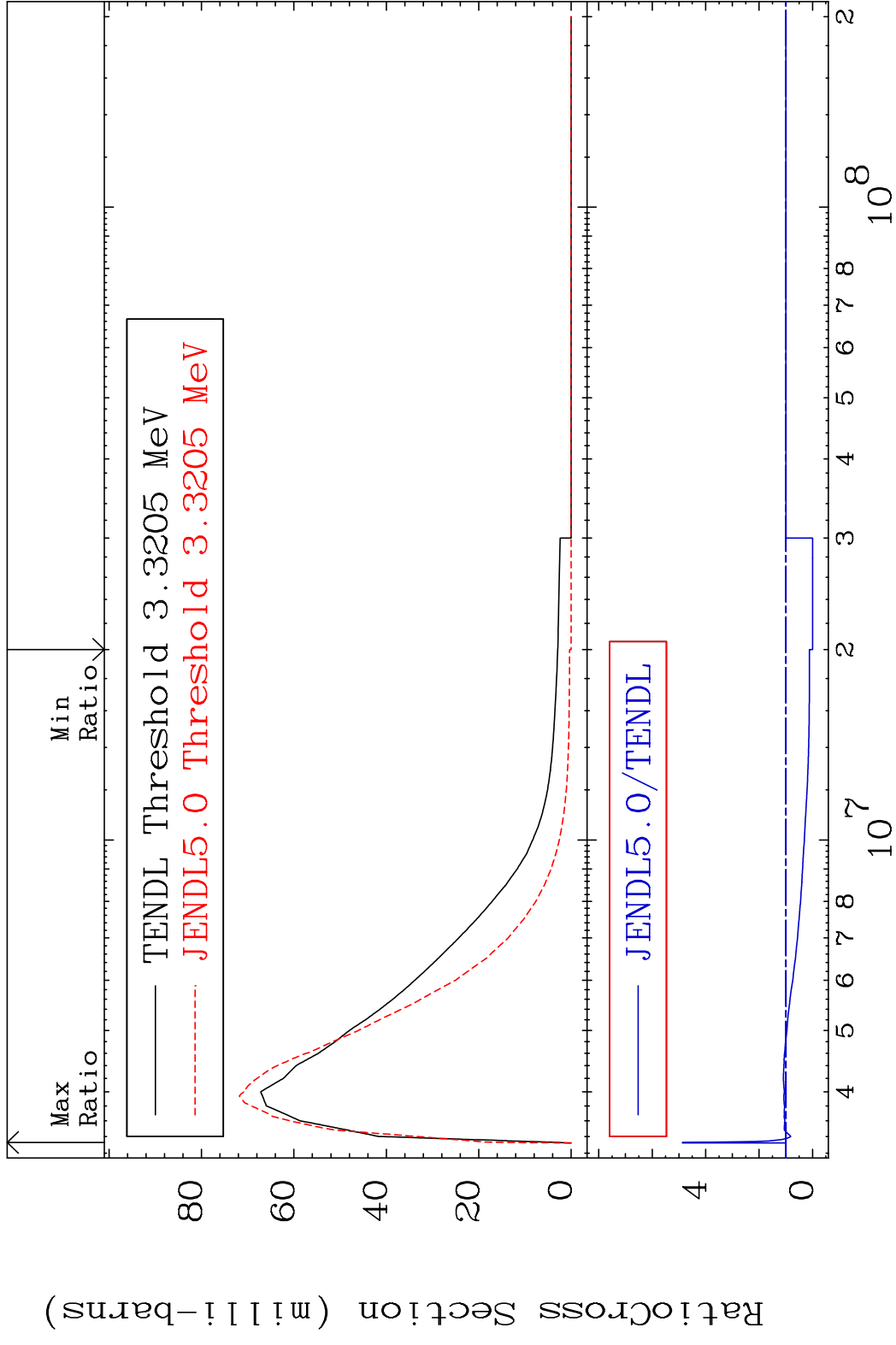
MAT 2825 MT= 55 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 5567. %



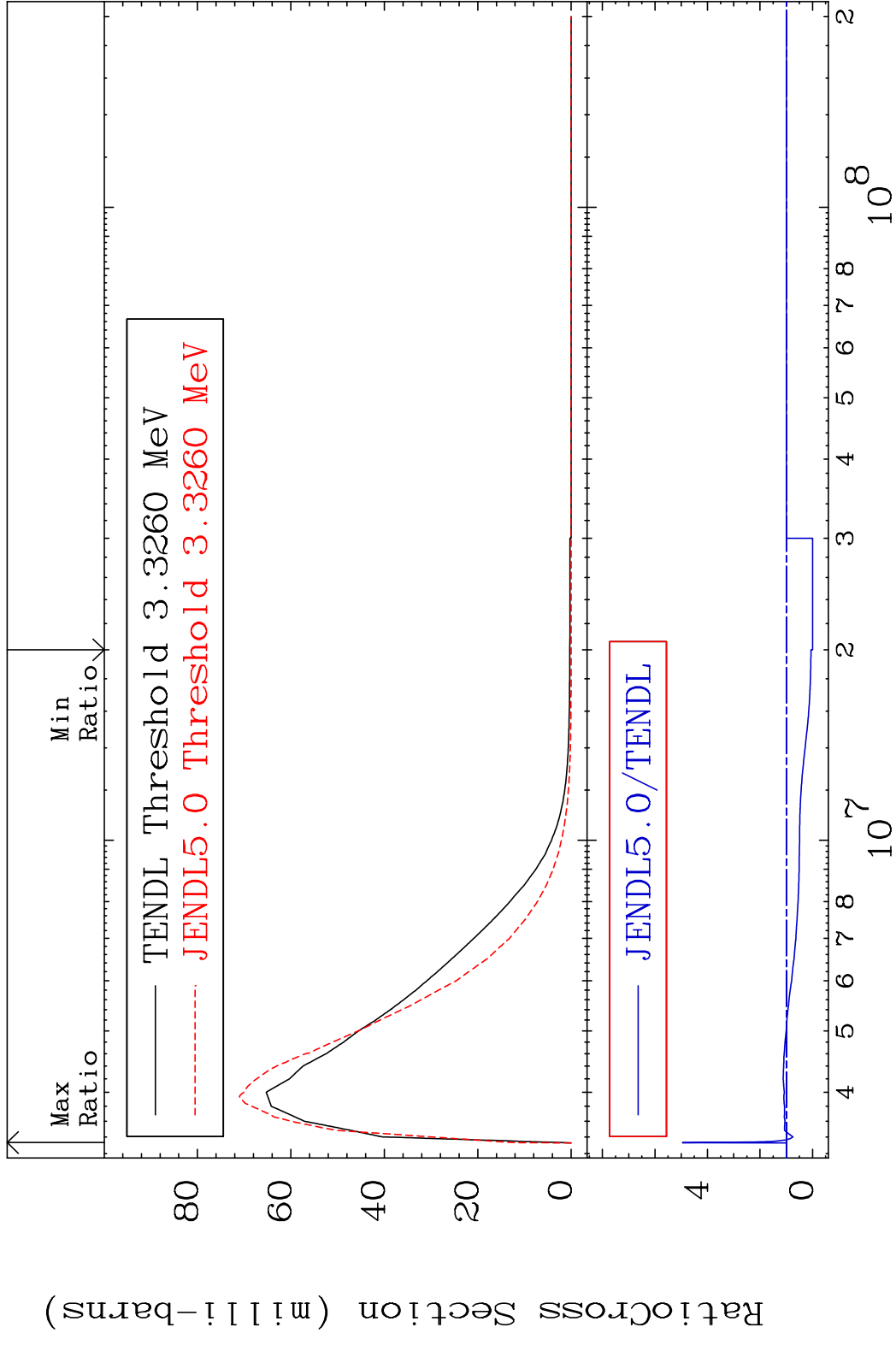
MAT 2825 MT= 56 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 33.70 %



MAT 2825 MT= 57 (n,n') Level 28-Ni-58
 Cross Section -100.0 To 387.1 %

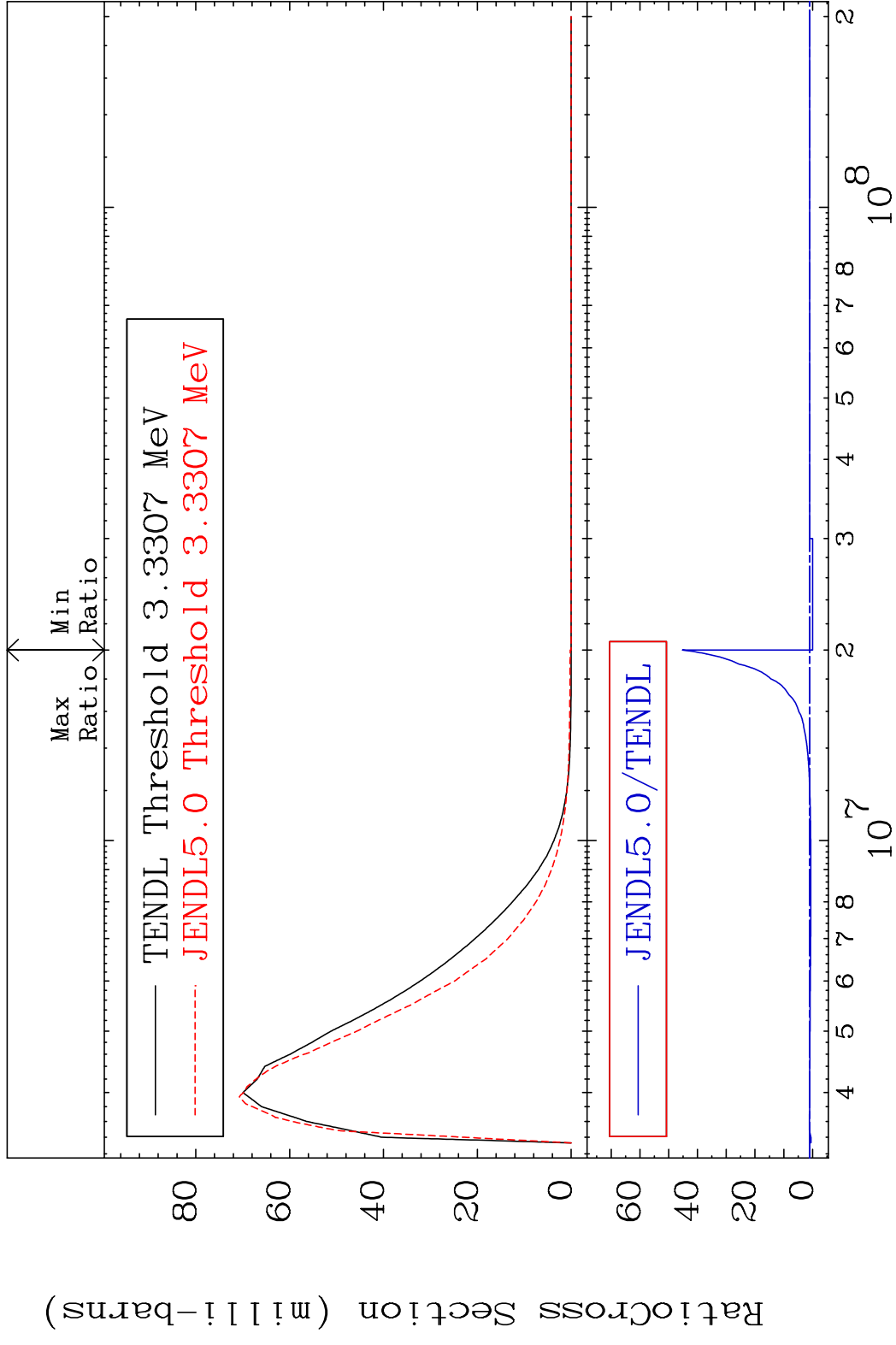


MAT 2825 MT= 58 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 395.7 %

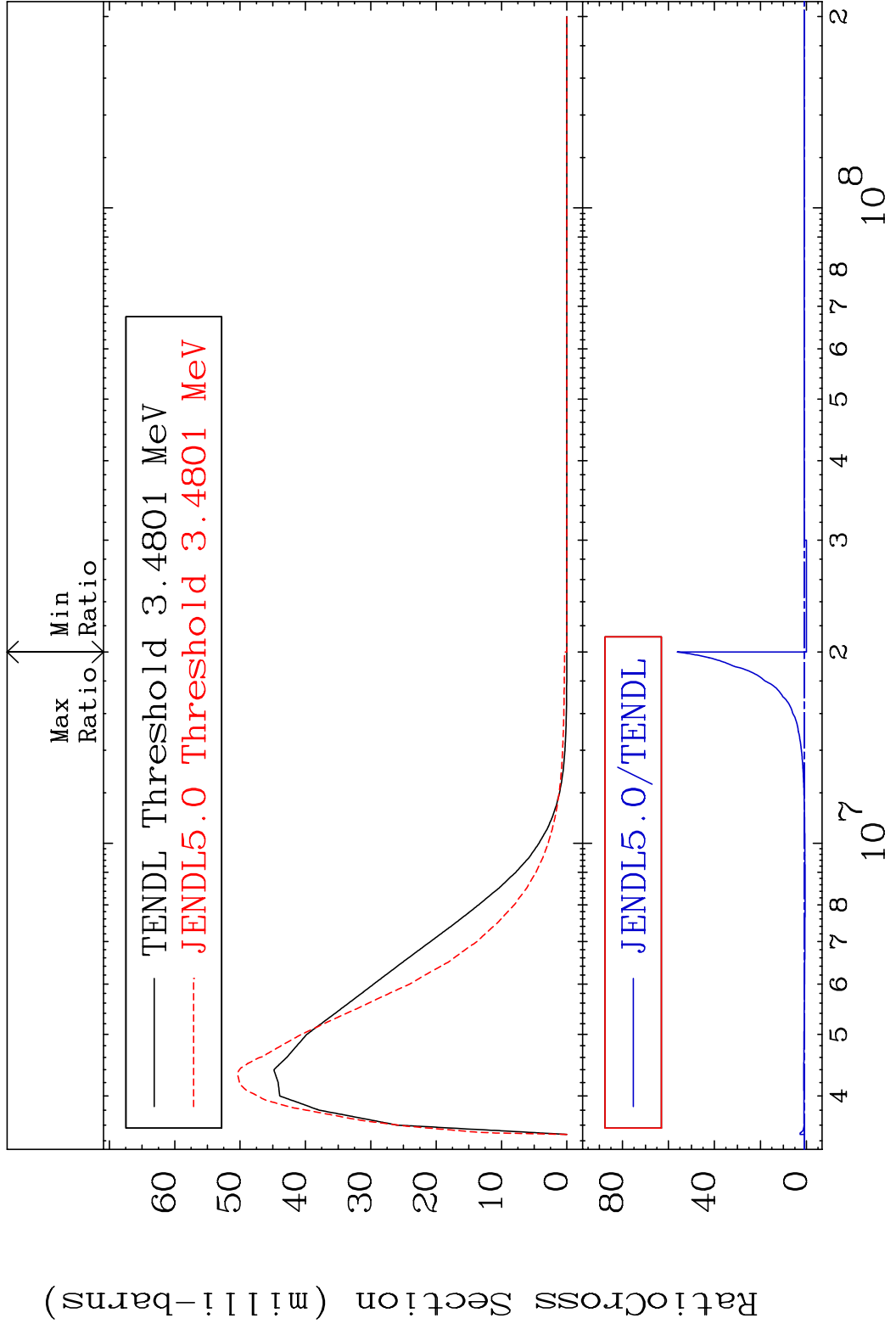


17 28-Ni-58

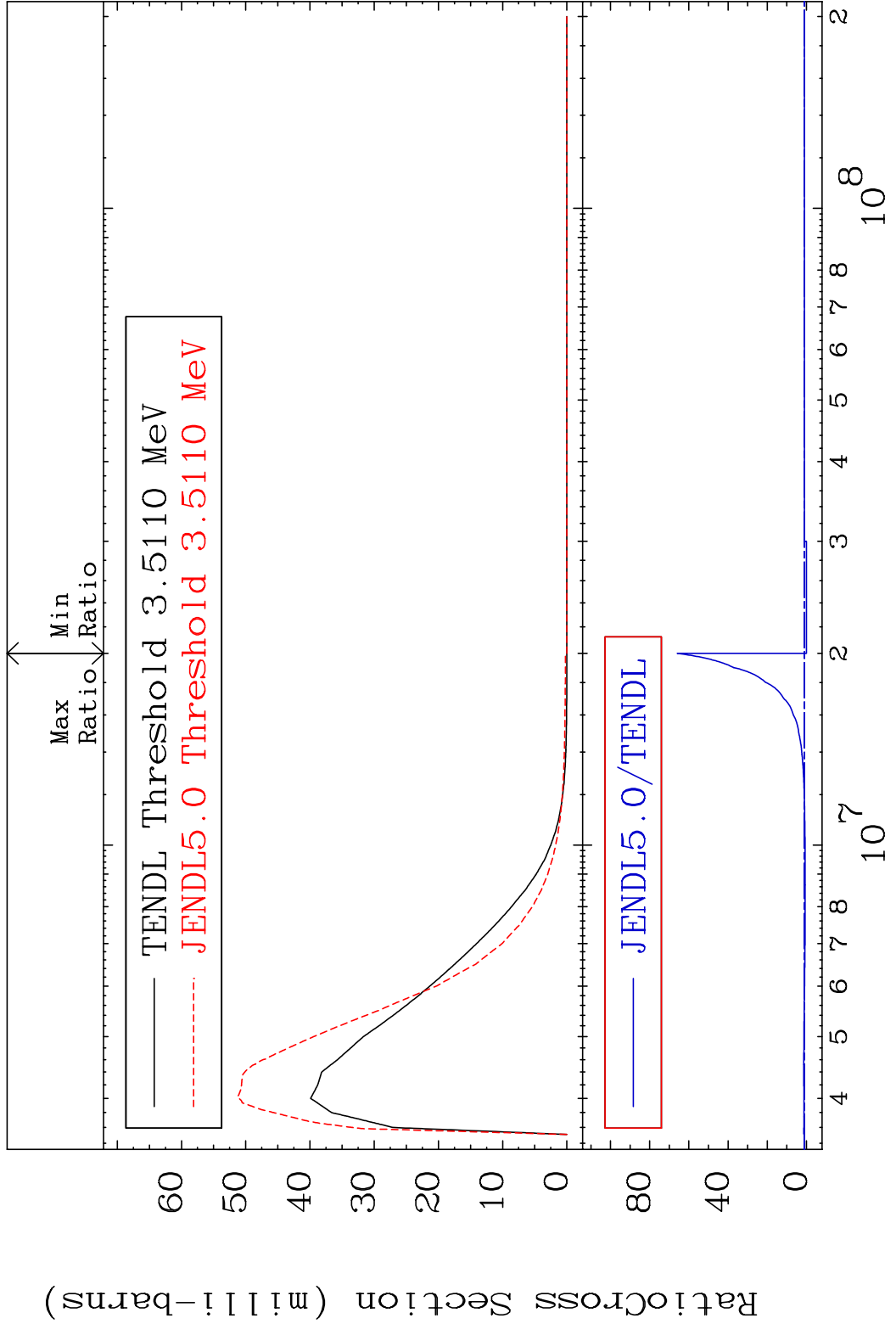
MAT 2825 MT= 59 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 4425. %



MAT 2825 MT= 60 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 5519. %

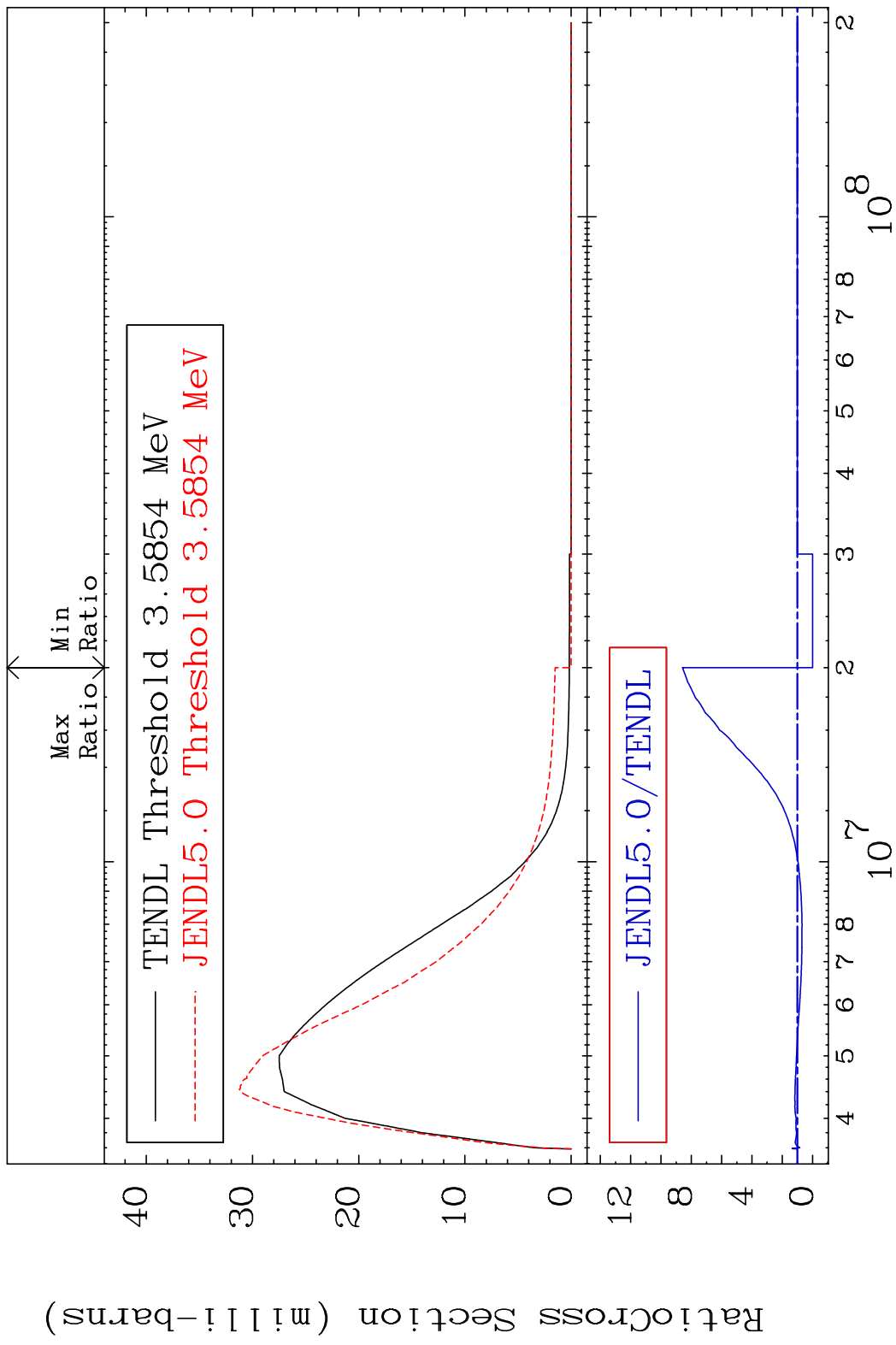


MAT 2825 MT= 61 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 6496. %

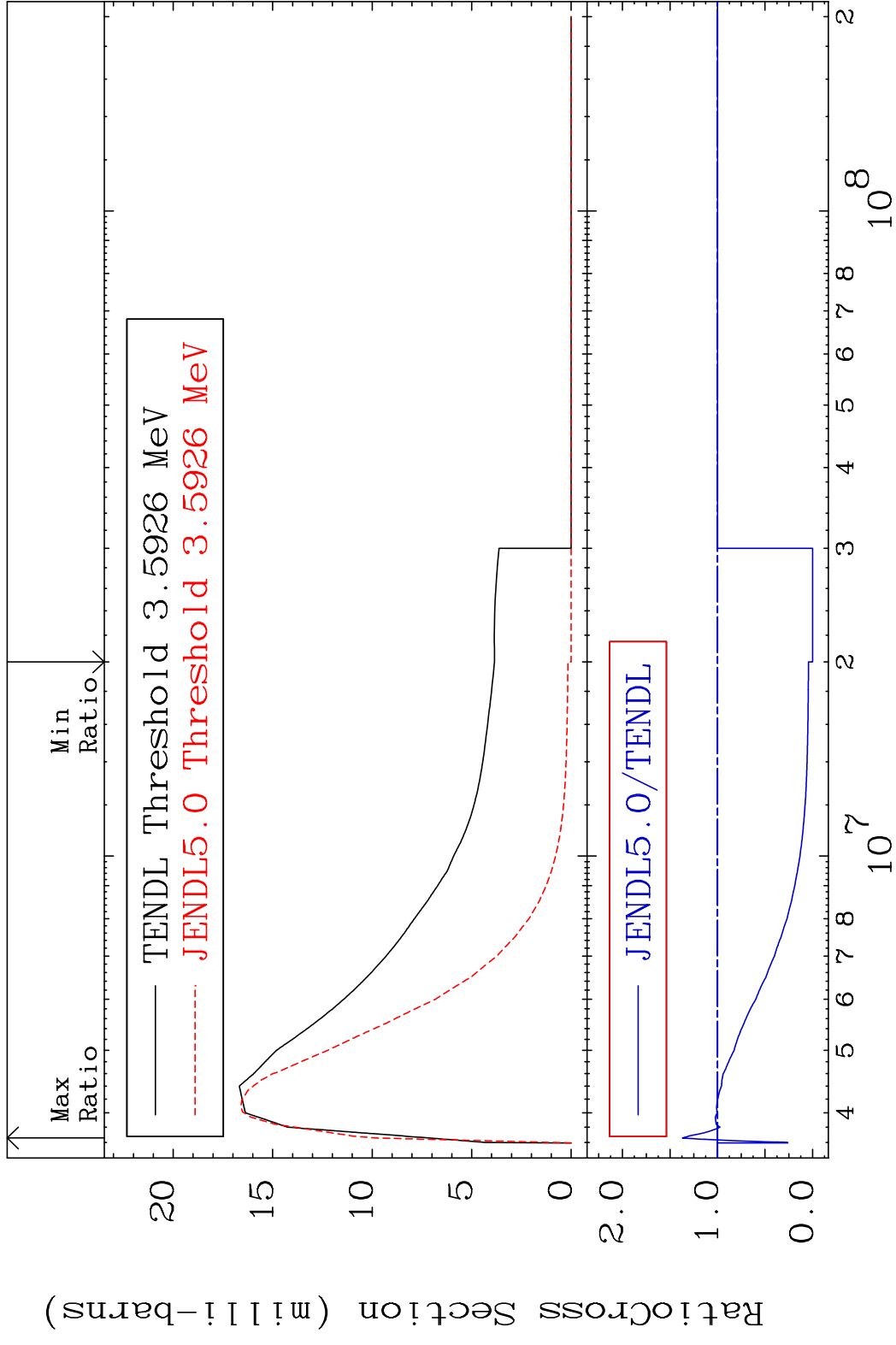


20 Incident Energy (eV) 28-Ni-58

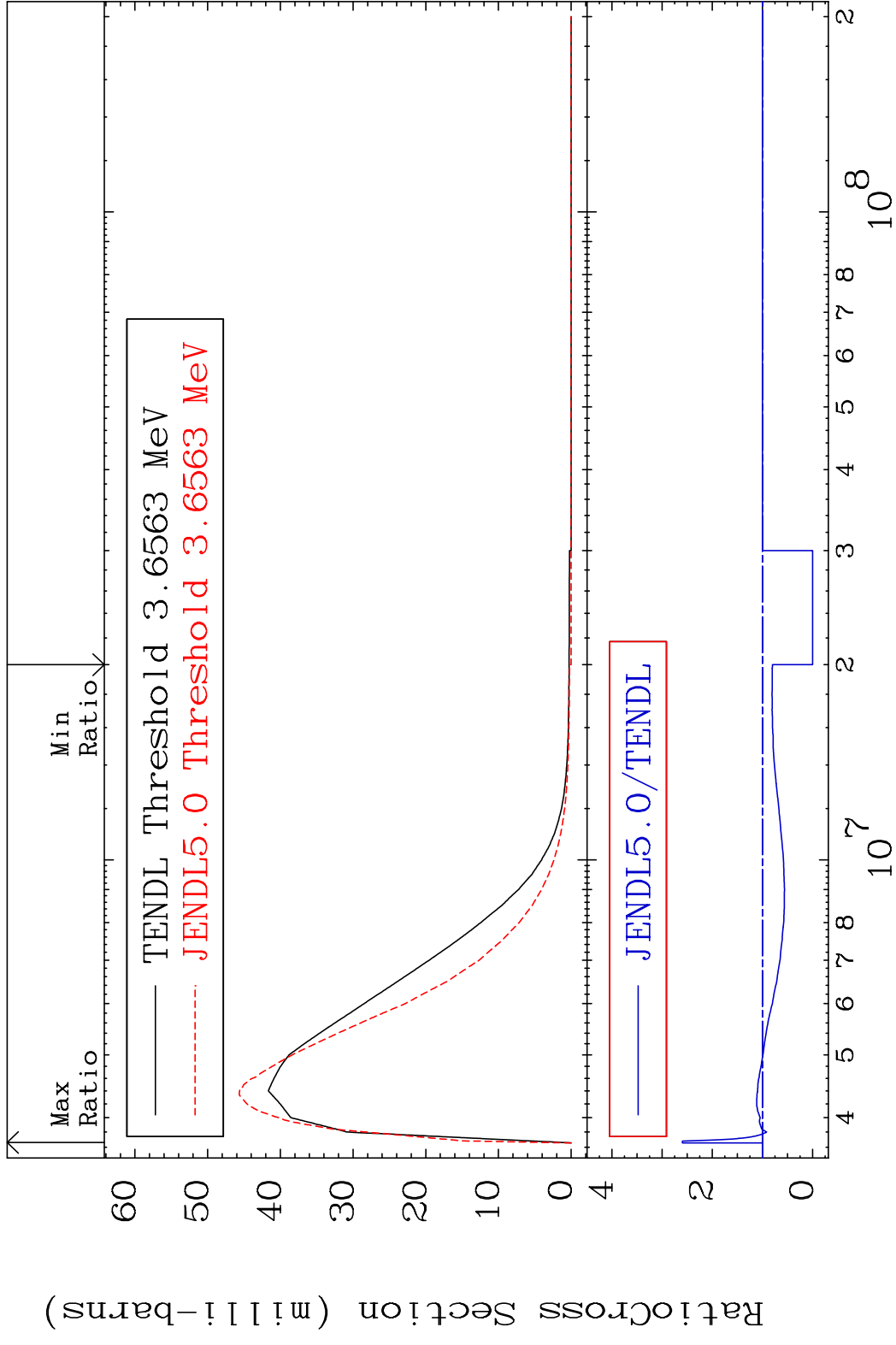
MAT 2825 MT= 62 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 759.2 %



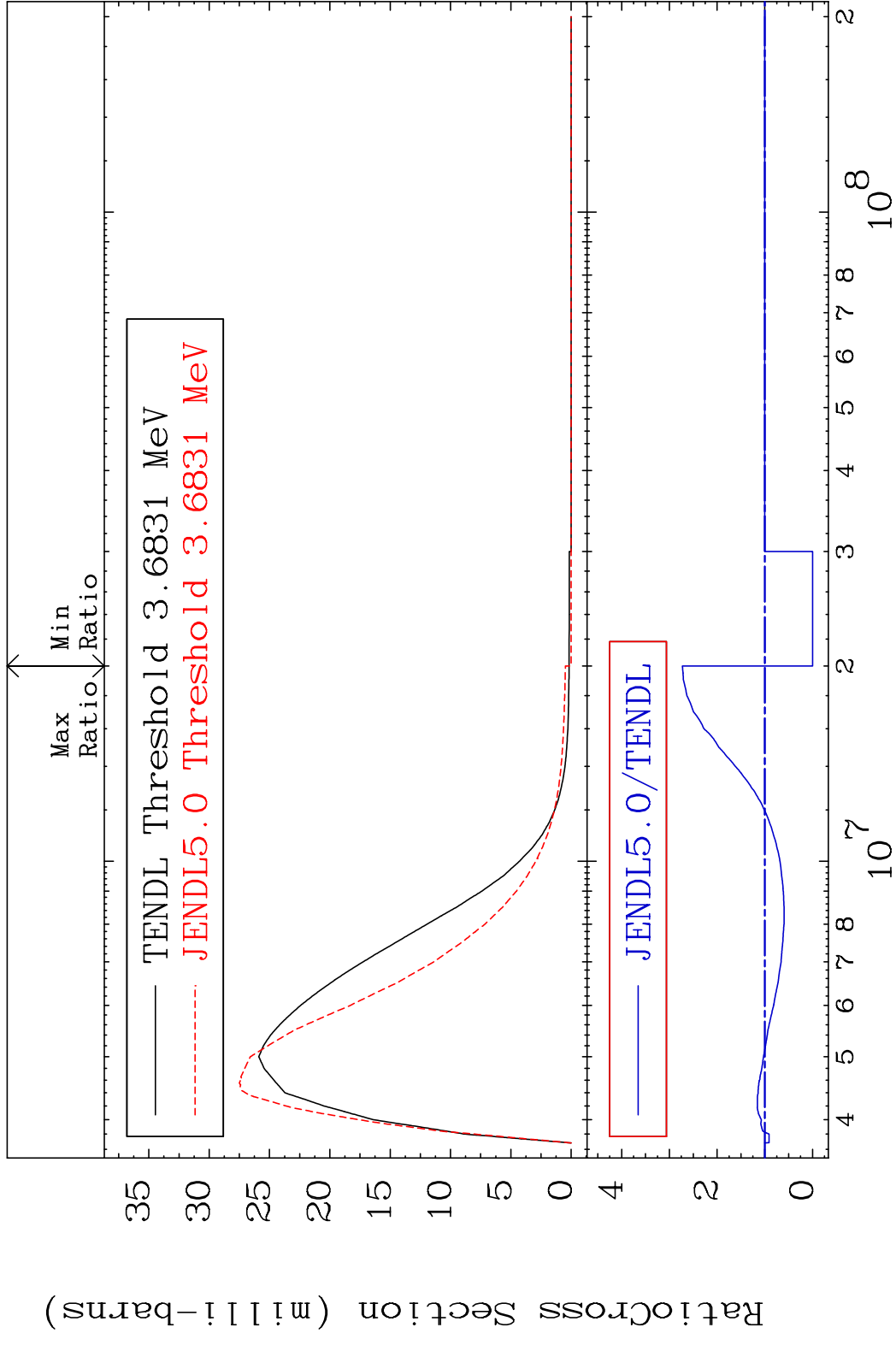
MAT 2825 MT= 63 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 37.00 %



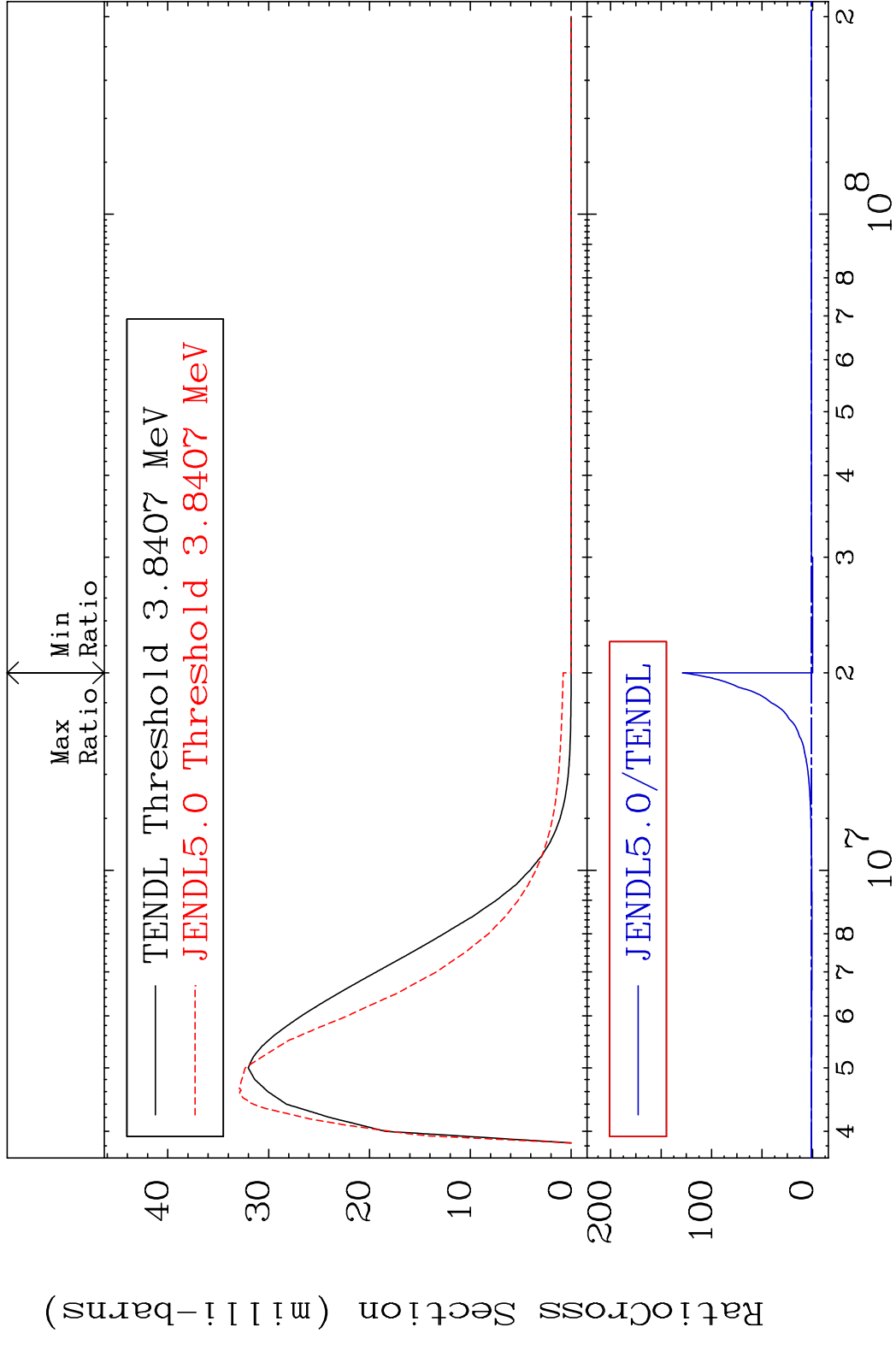
MAT 2825 MT= 64 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 159.7 %



MAT 2825 MT= 65 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 172.8 %

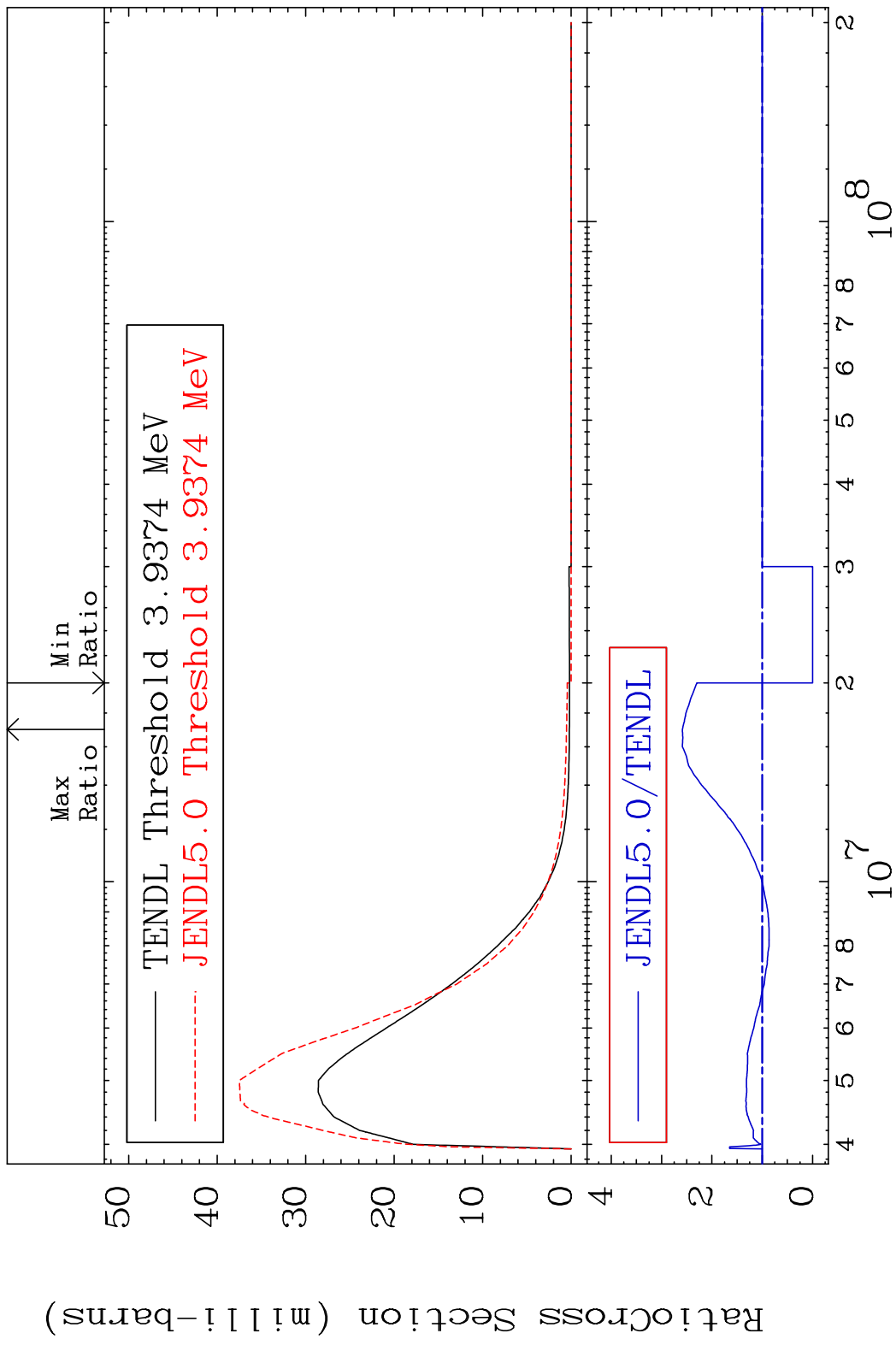


MAT 2825 MT= 66 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 9999. %



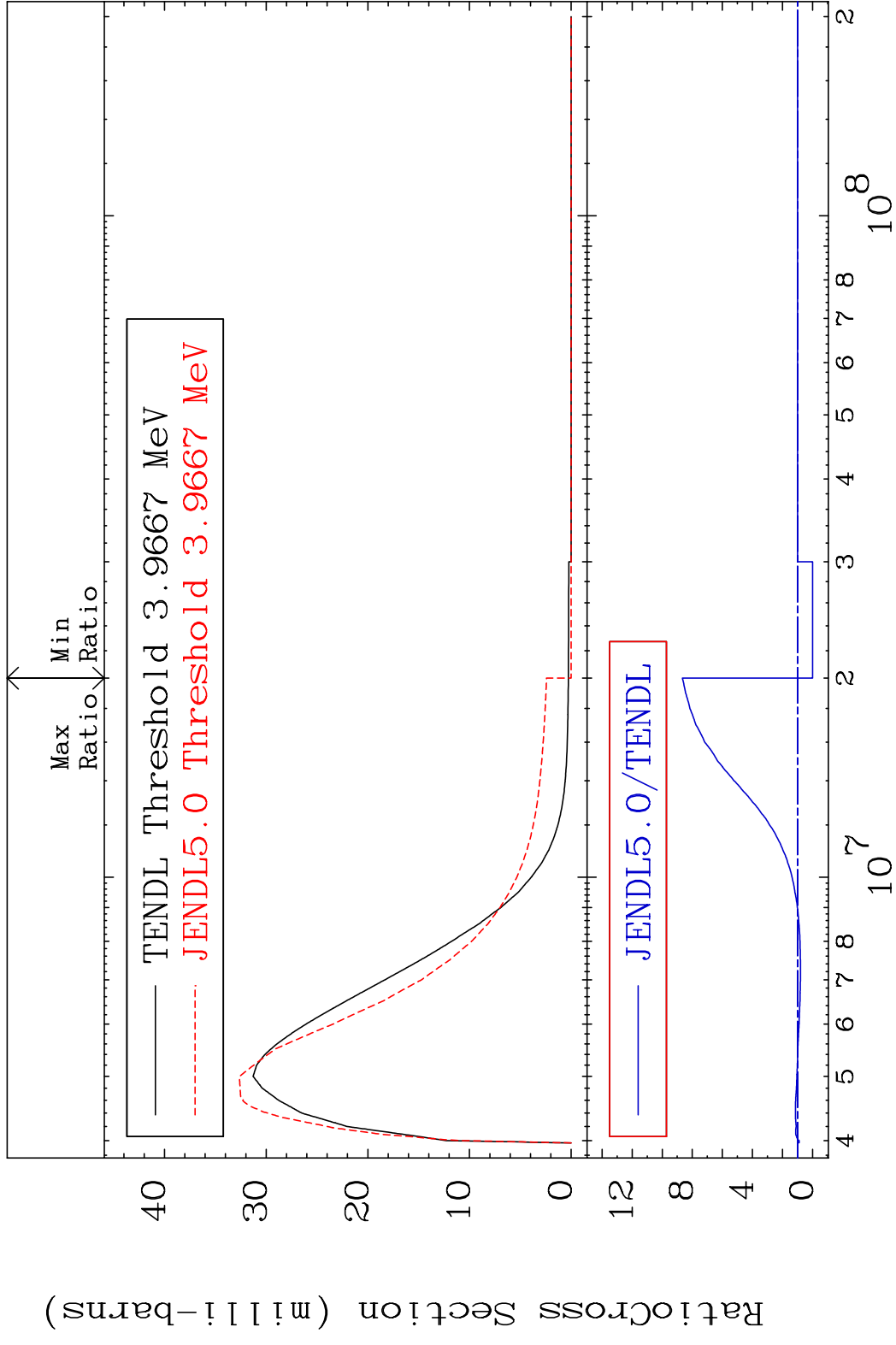
25 28-Ni-58

MAT 2825 MT= 67 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 158.7 %

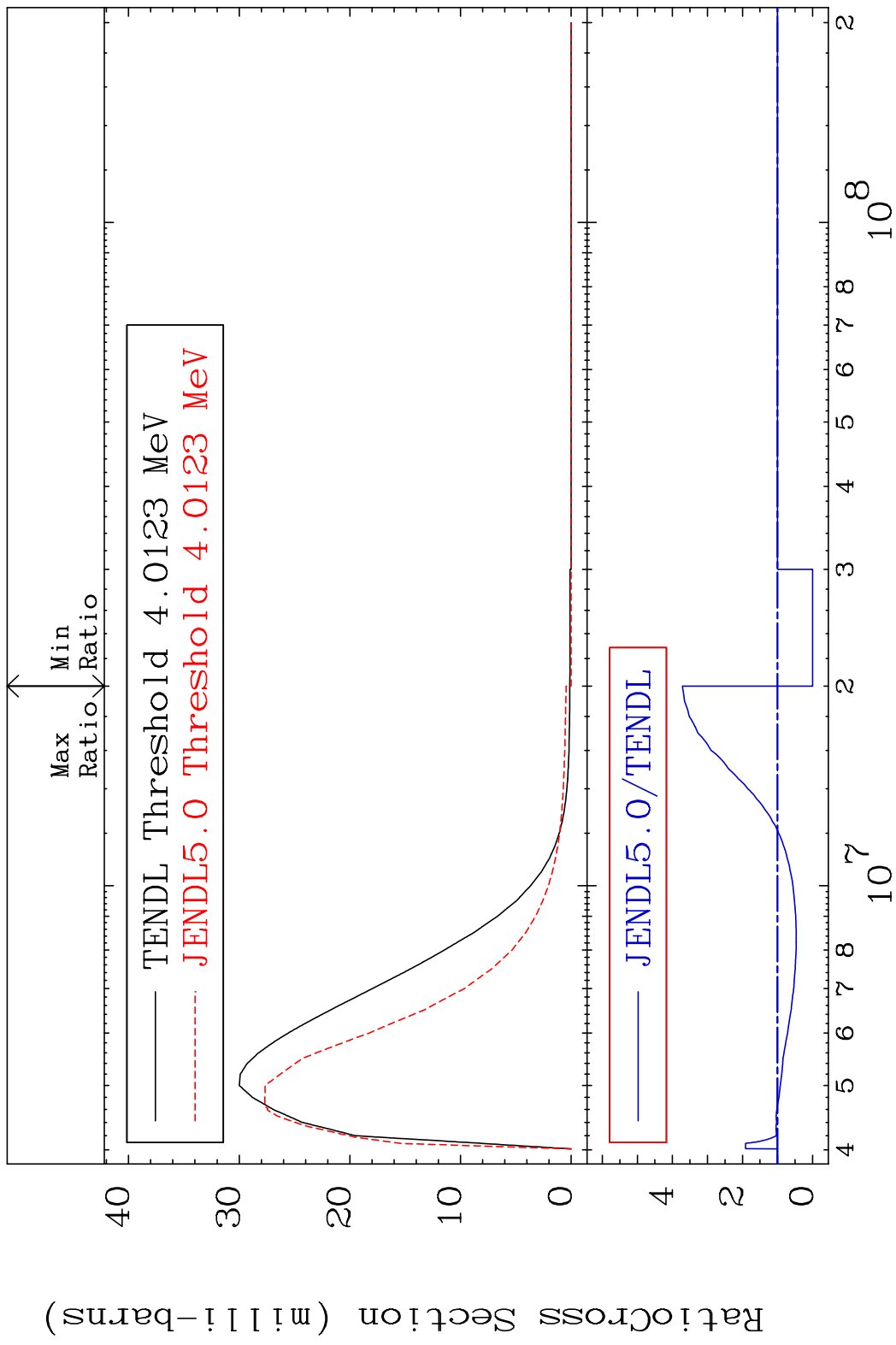


26 Incident Energy (eV) 28-Ni-58

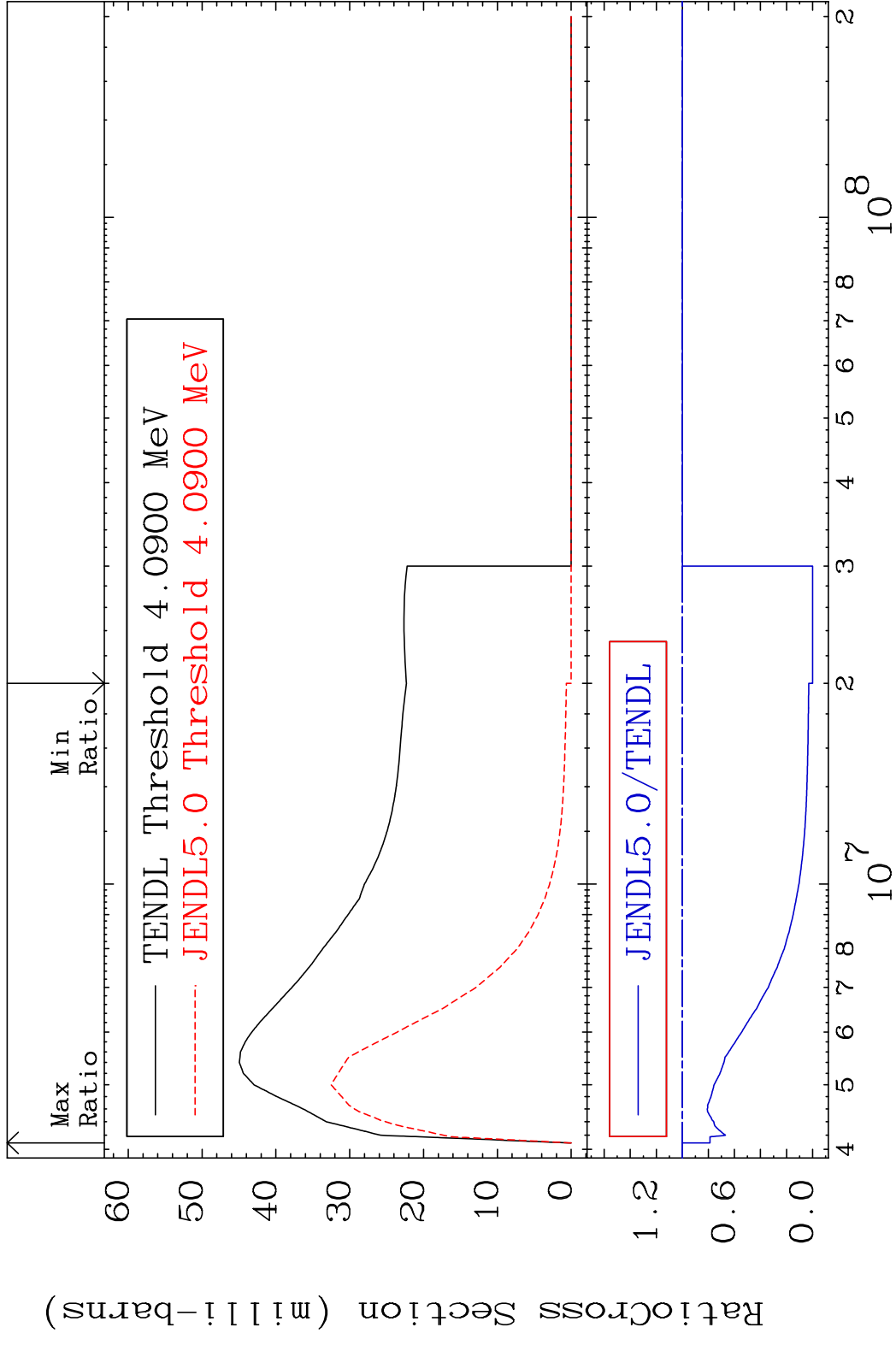
MAT 2825 MT= 68 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 766.0 %



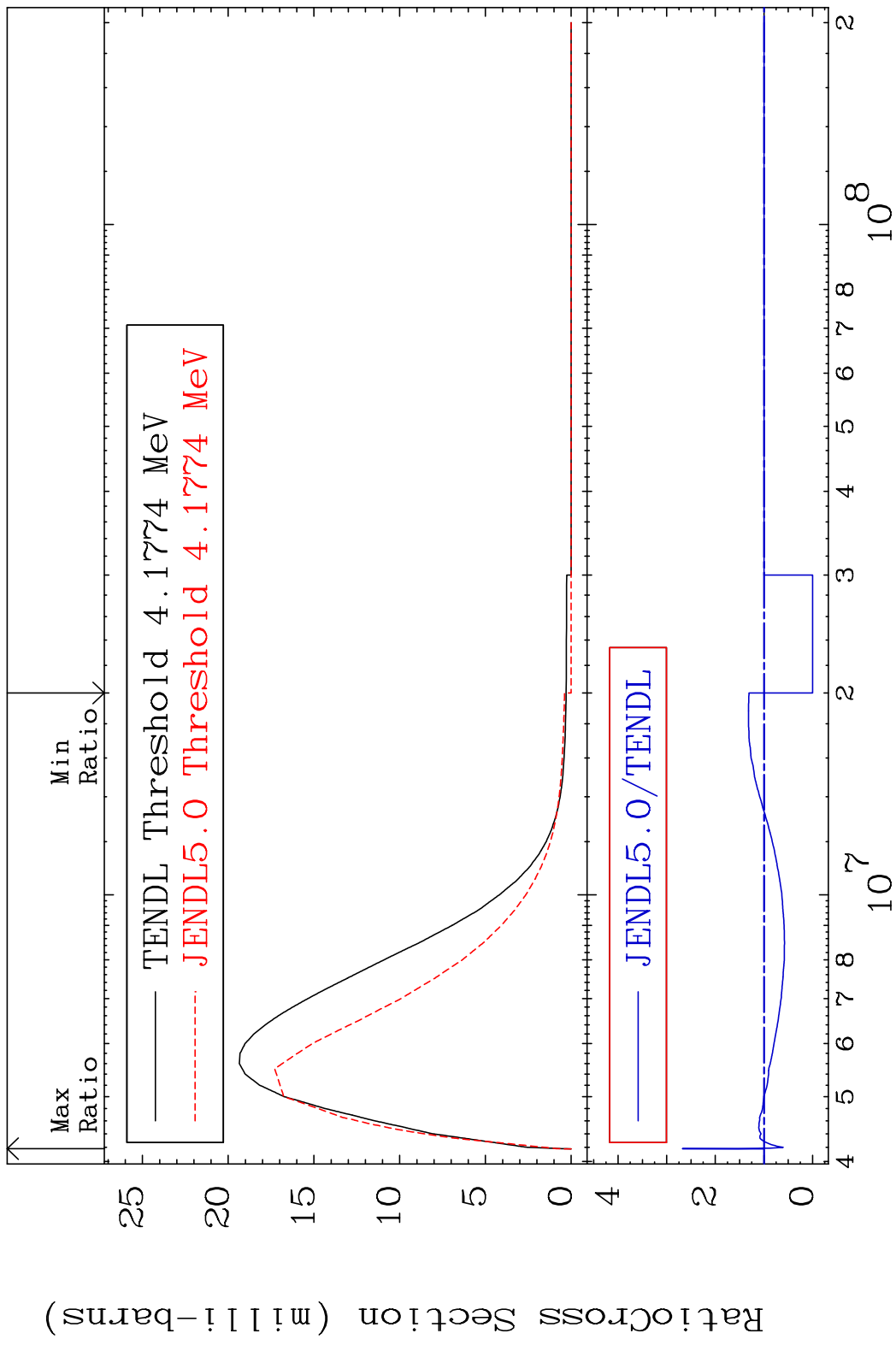
MAT 2825 MT= 69 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 271.6 %



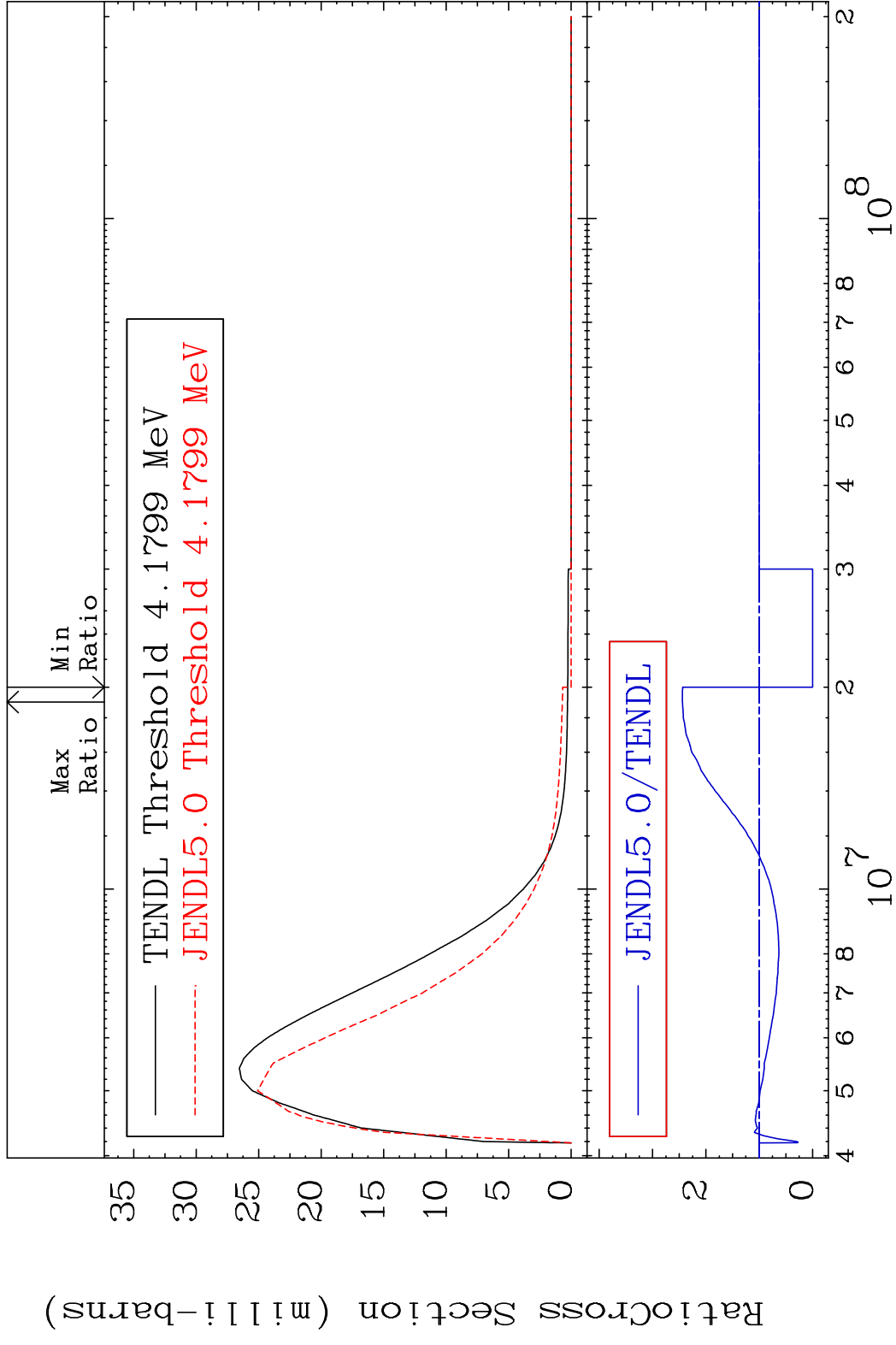
MAT 2825 MT= 70 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 0.000 %



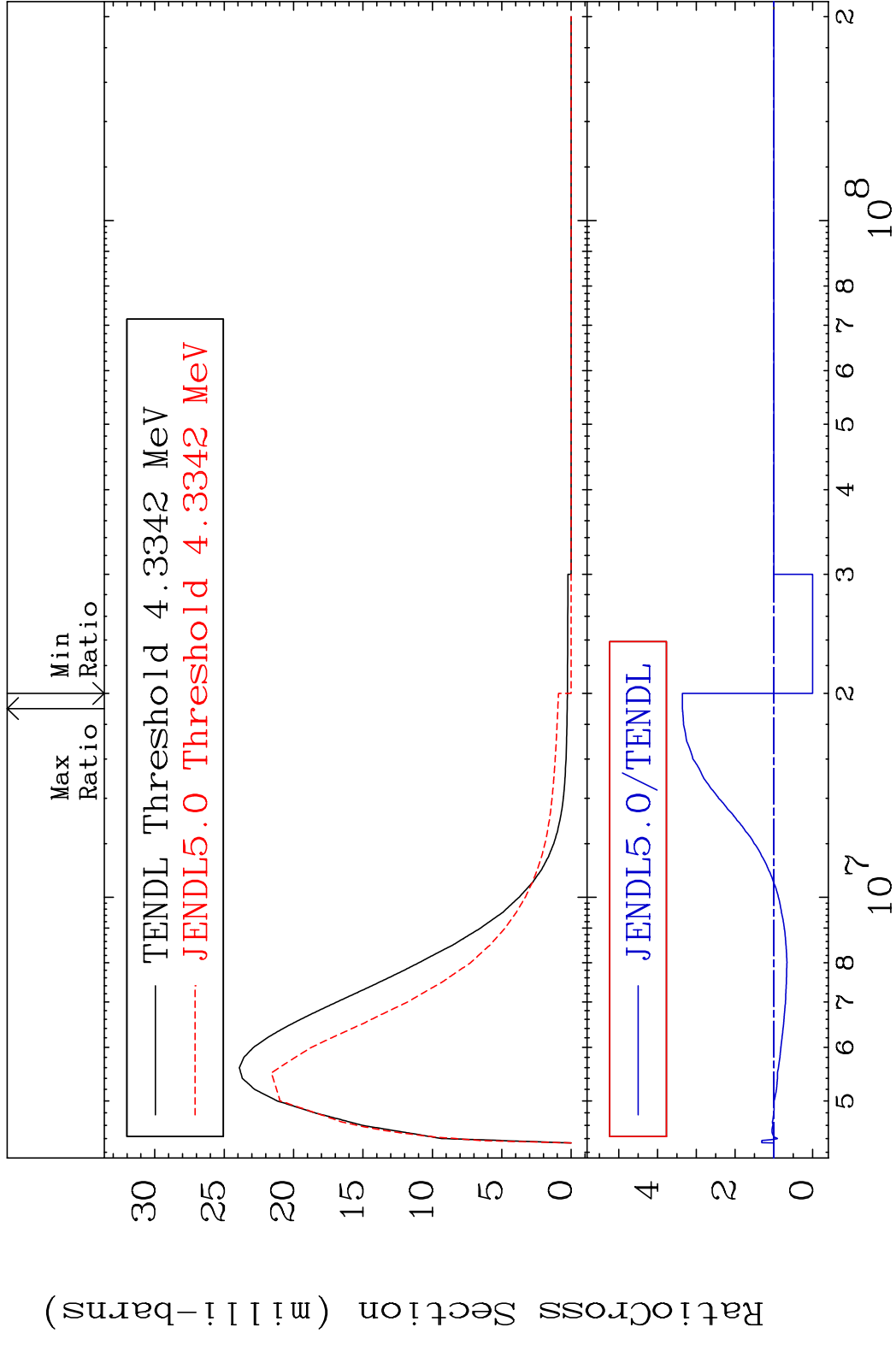
MAT 2825 MT= 71 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 167.8 %



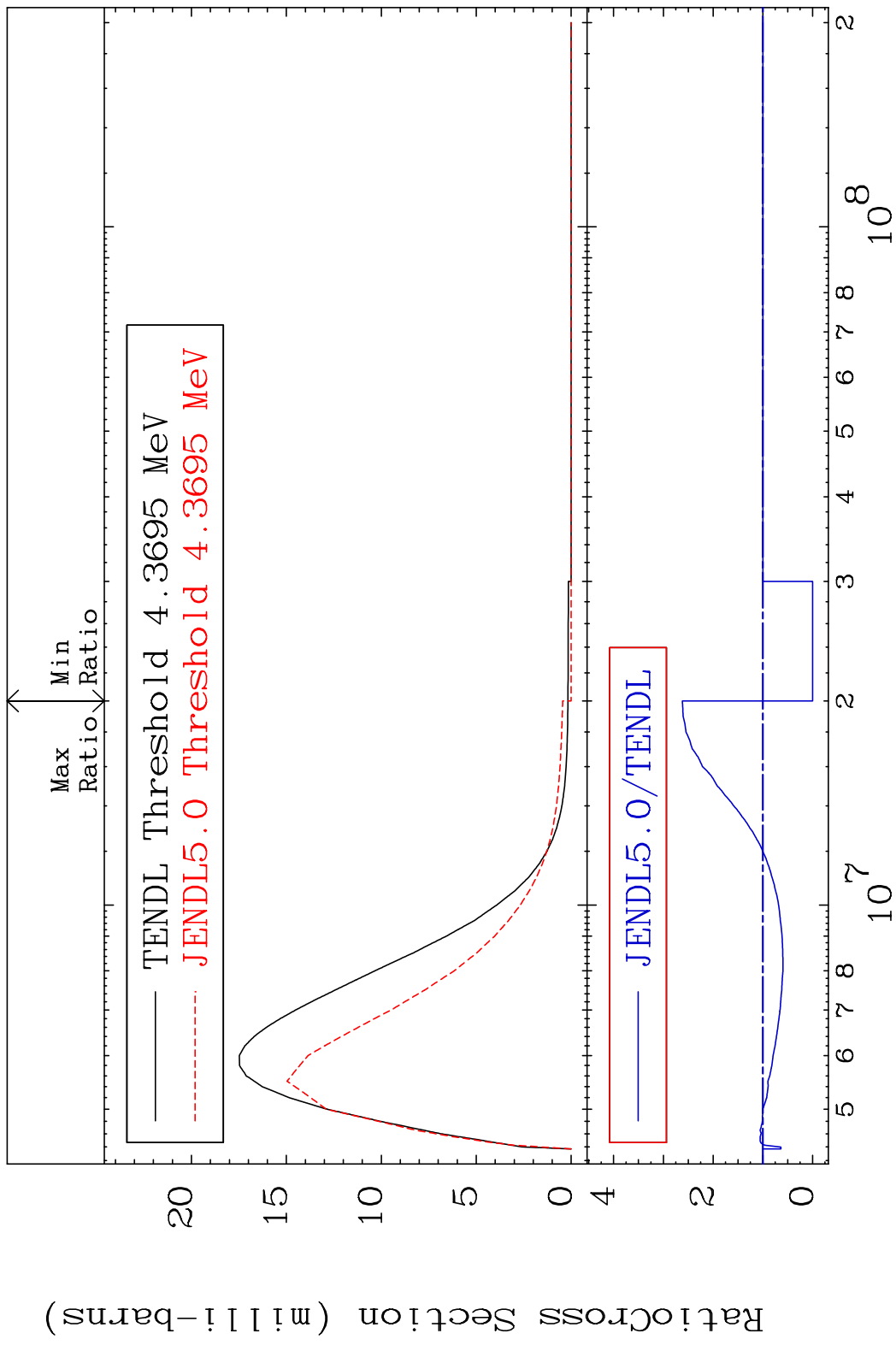
MAT 2825 MT= 72 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 144.1 %



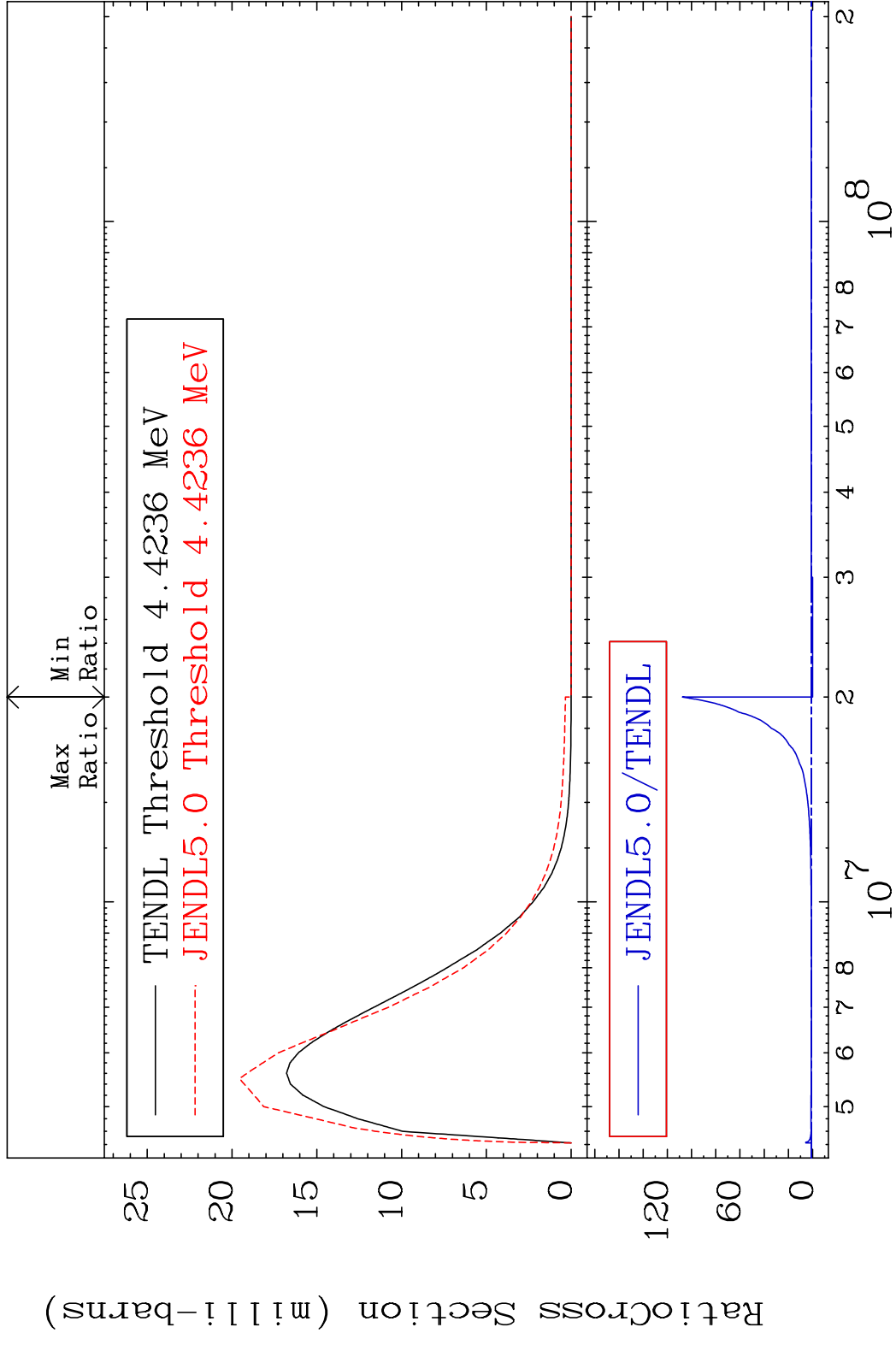
MAT 2825 MT= 73 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 236.0 %



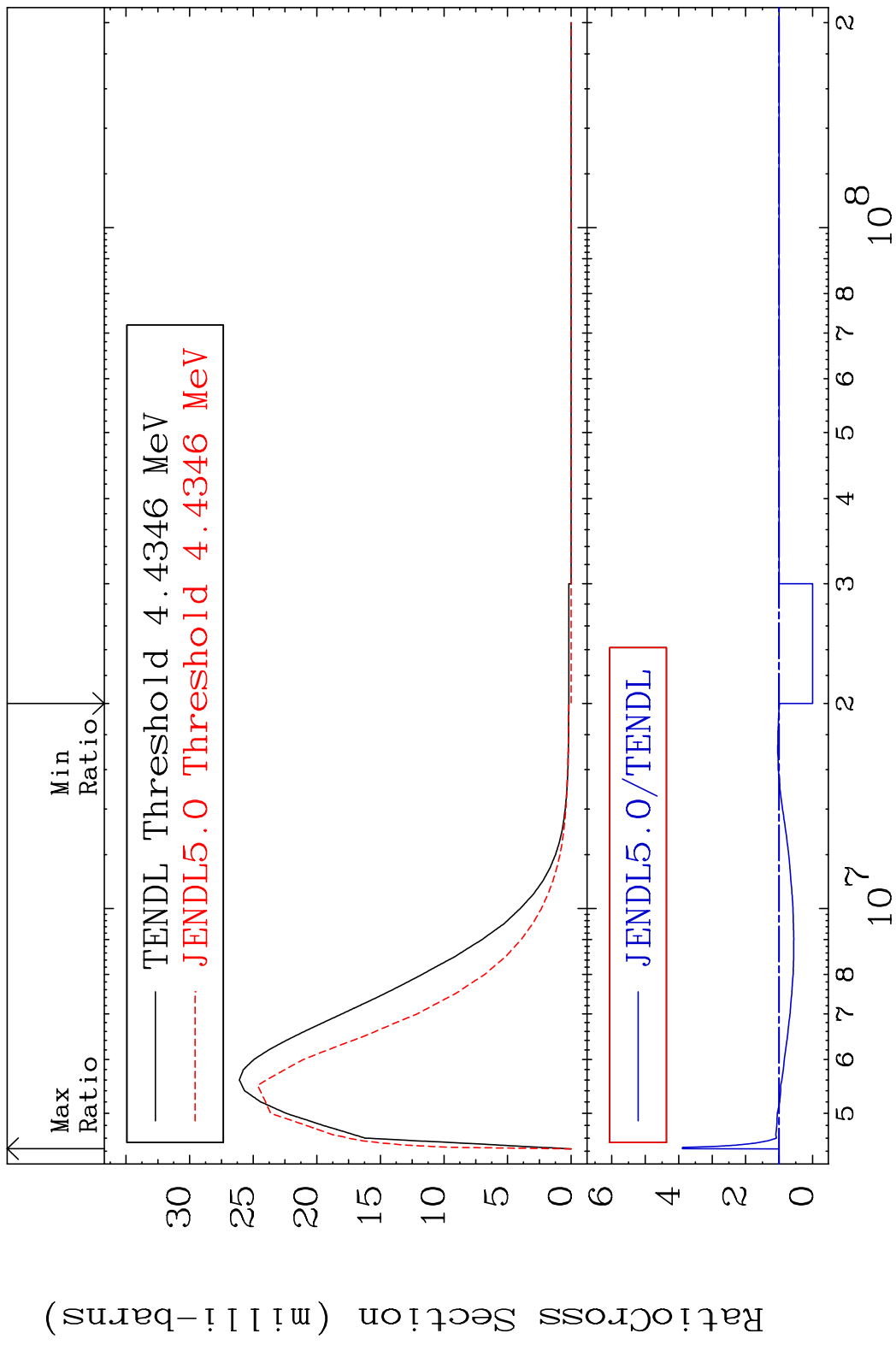
MAT 2825 MT= 74 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 161.8 %



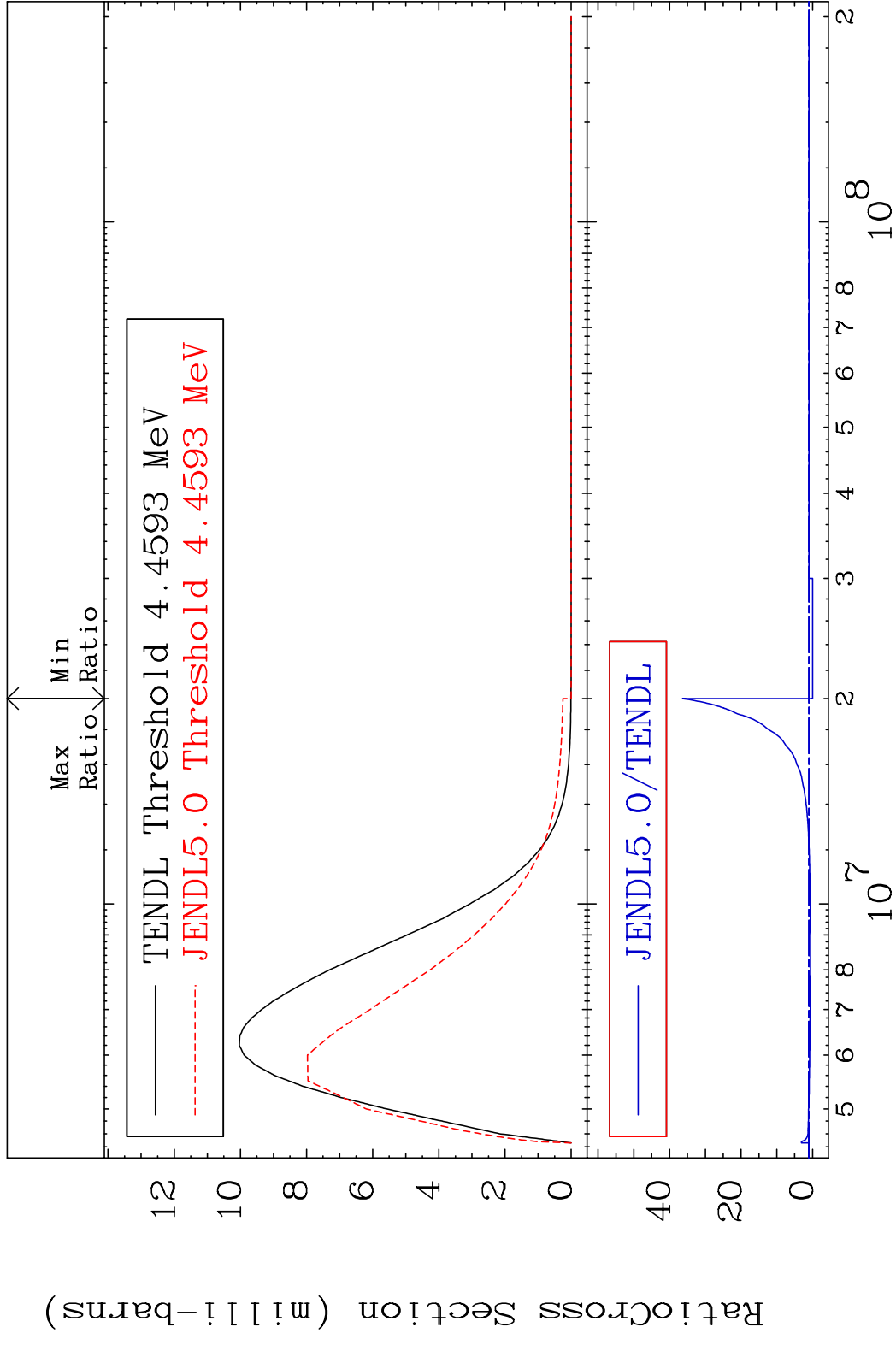
MAT 2825 MT= 75 (n,n') Level 28-Ni-58
 Cross Section -100.0 To 9999. %



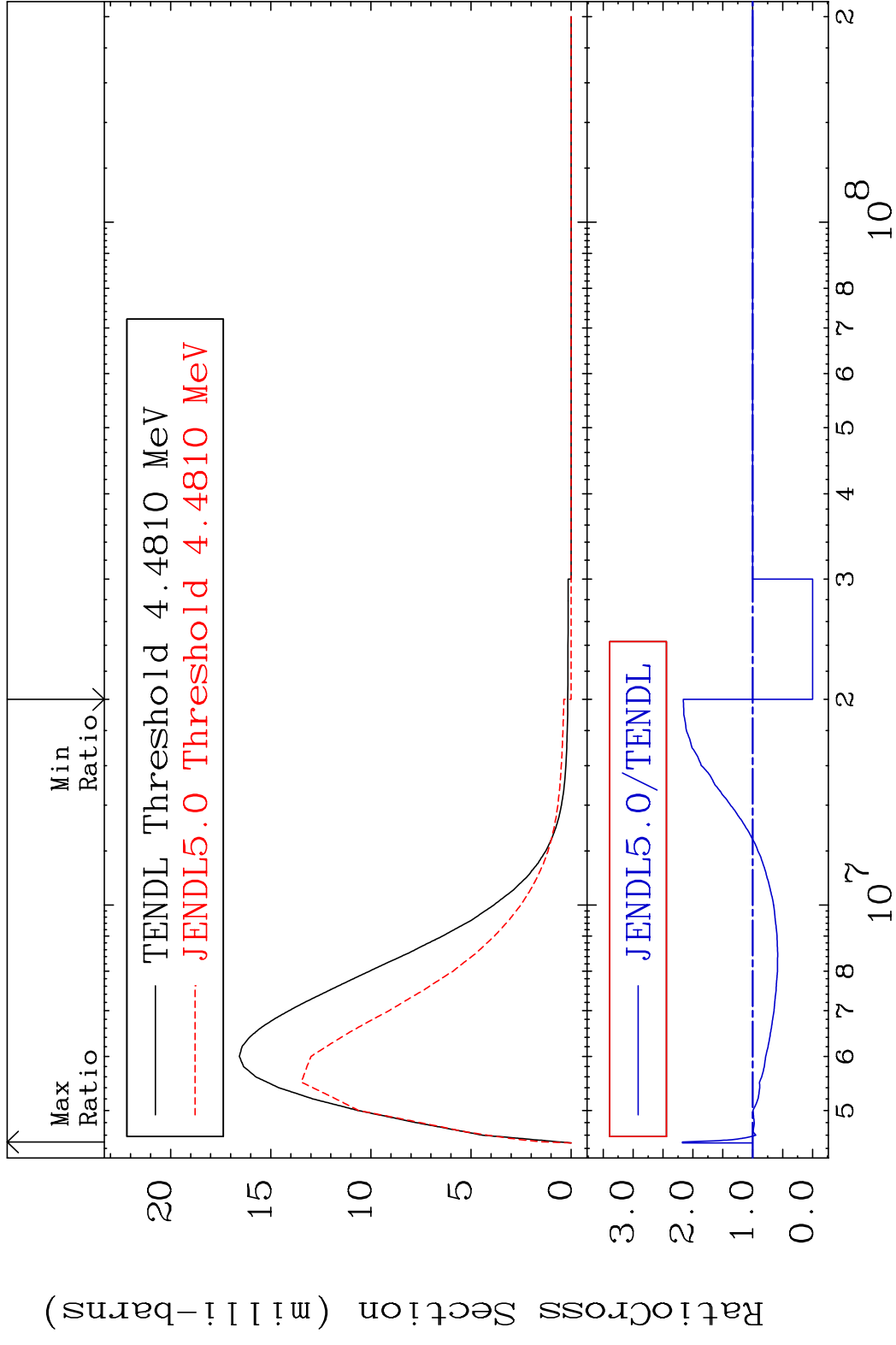
MAT 2825 MT= 76 (n,n') Level 28-Ni-58
 Cross Section -100.0 To 289.1 %



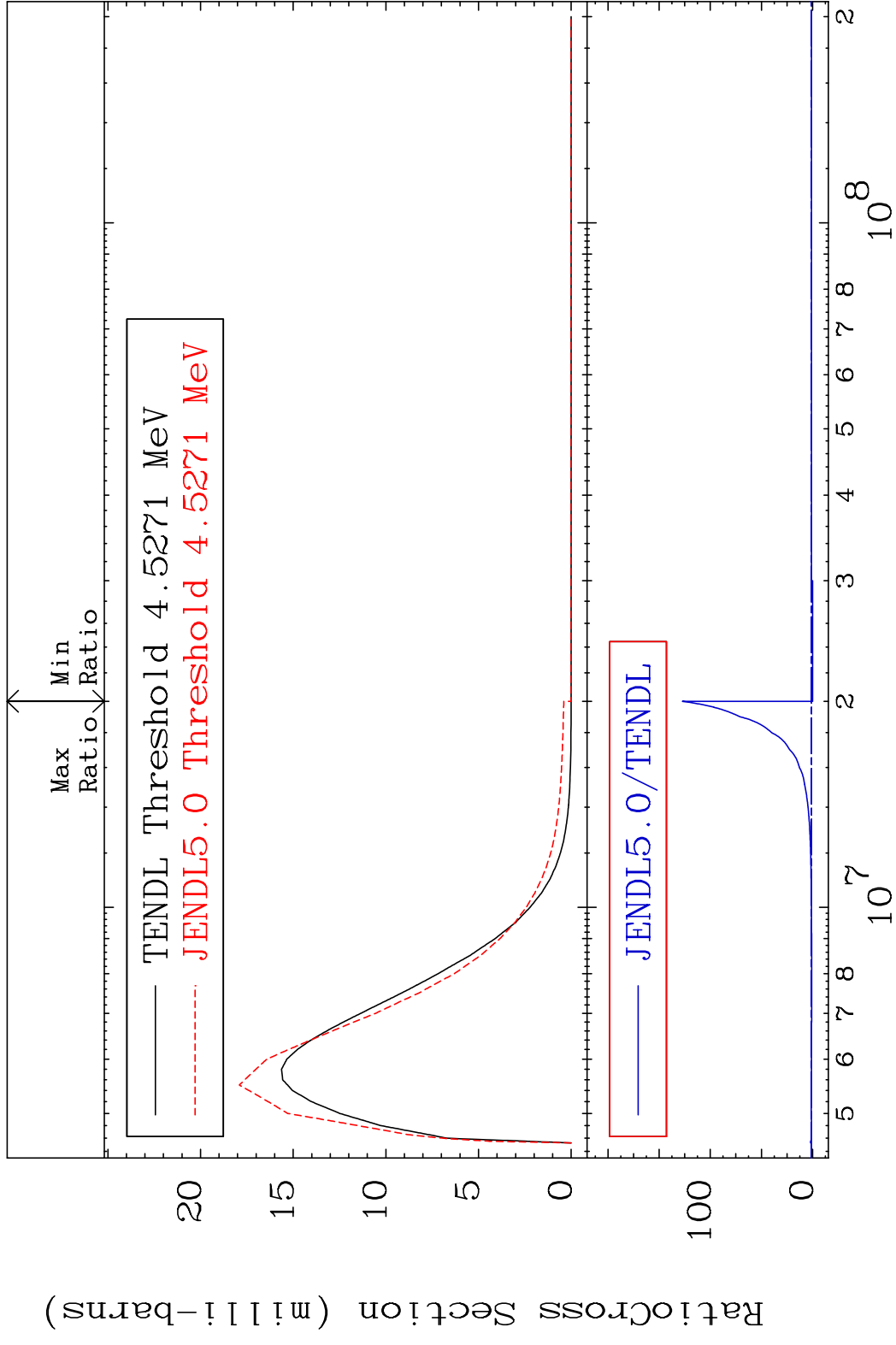
MAT 2825 MT= 77 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 3542. %



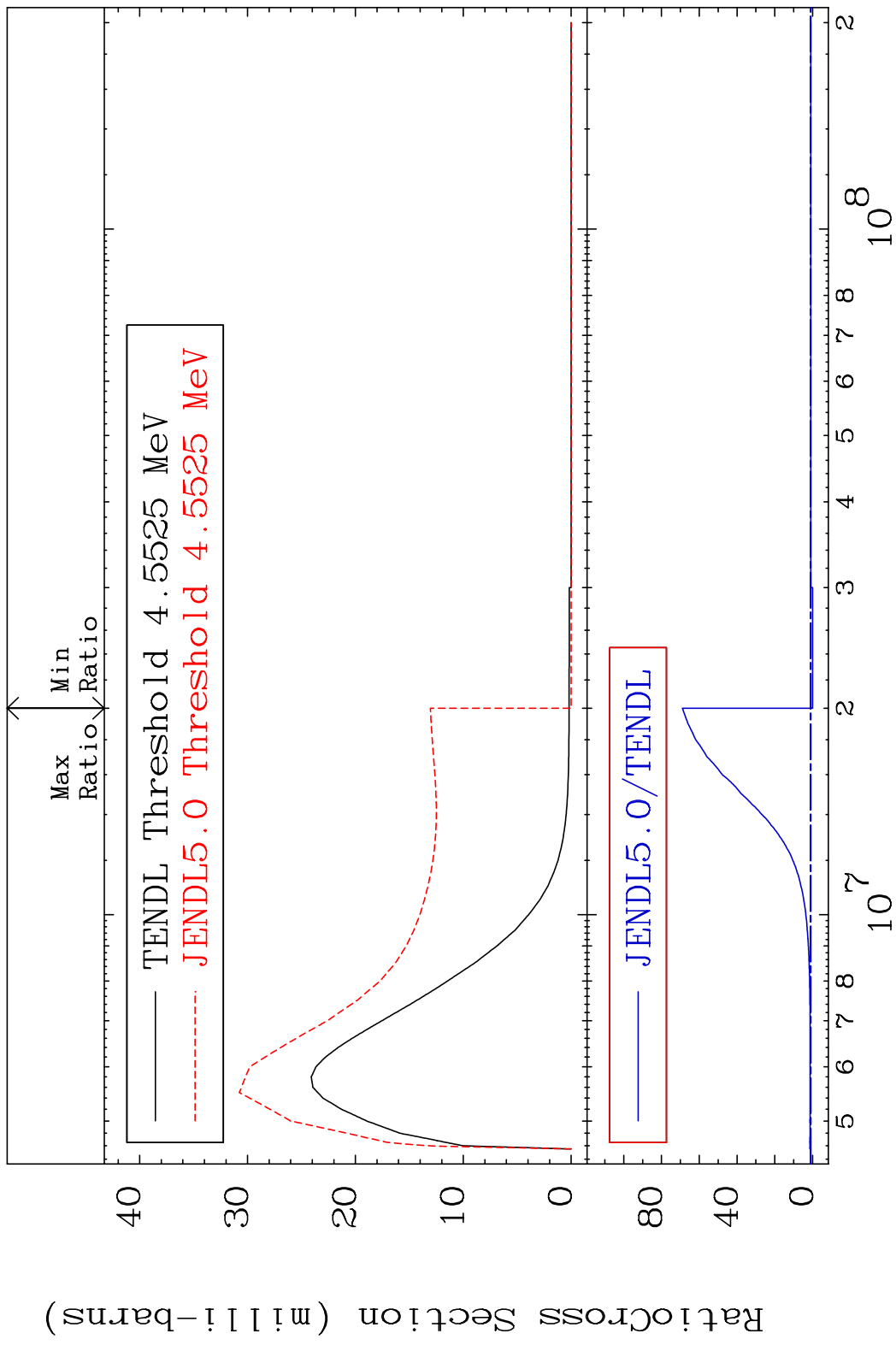
MAT 2825 MT= 78 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 117.7 %



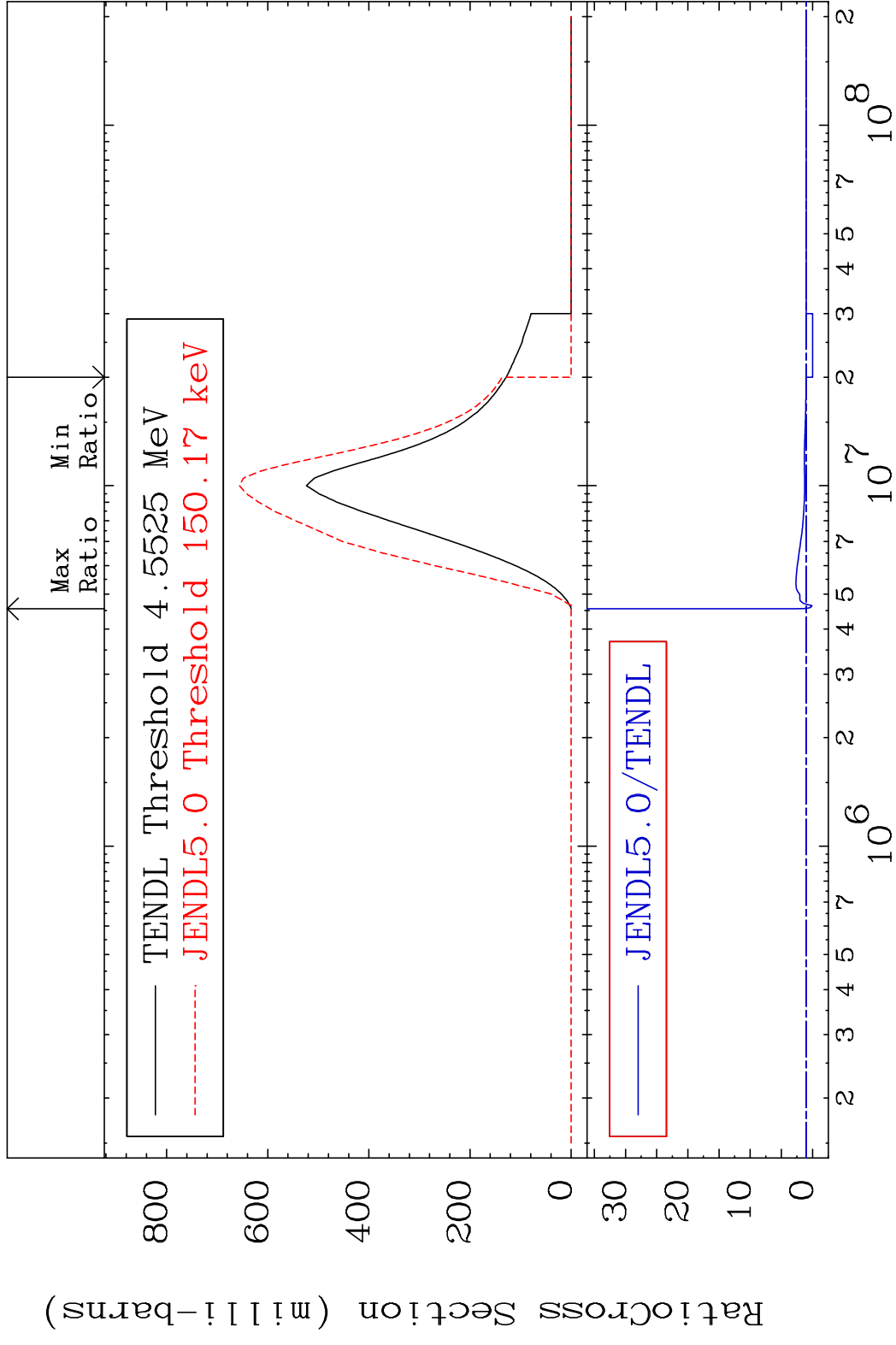
MAT 2825 MT= 79 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 9999. %



MAT 2825 MT= 80 (n, n') Level 28-Ni-58
 Cross Section -100.0 To 6795. %



MAT 2825 (n,n') Continuum 28-Ni-58
 Cross Section -100.0 To 1989. %



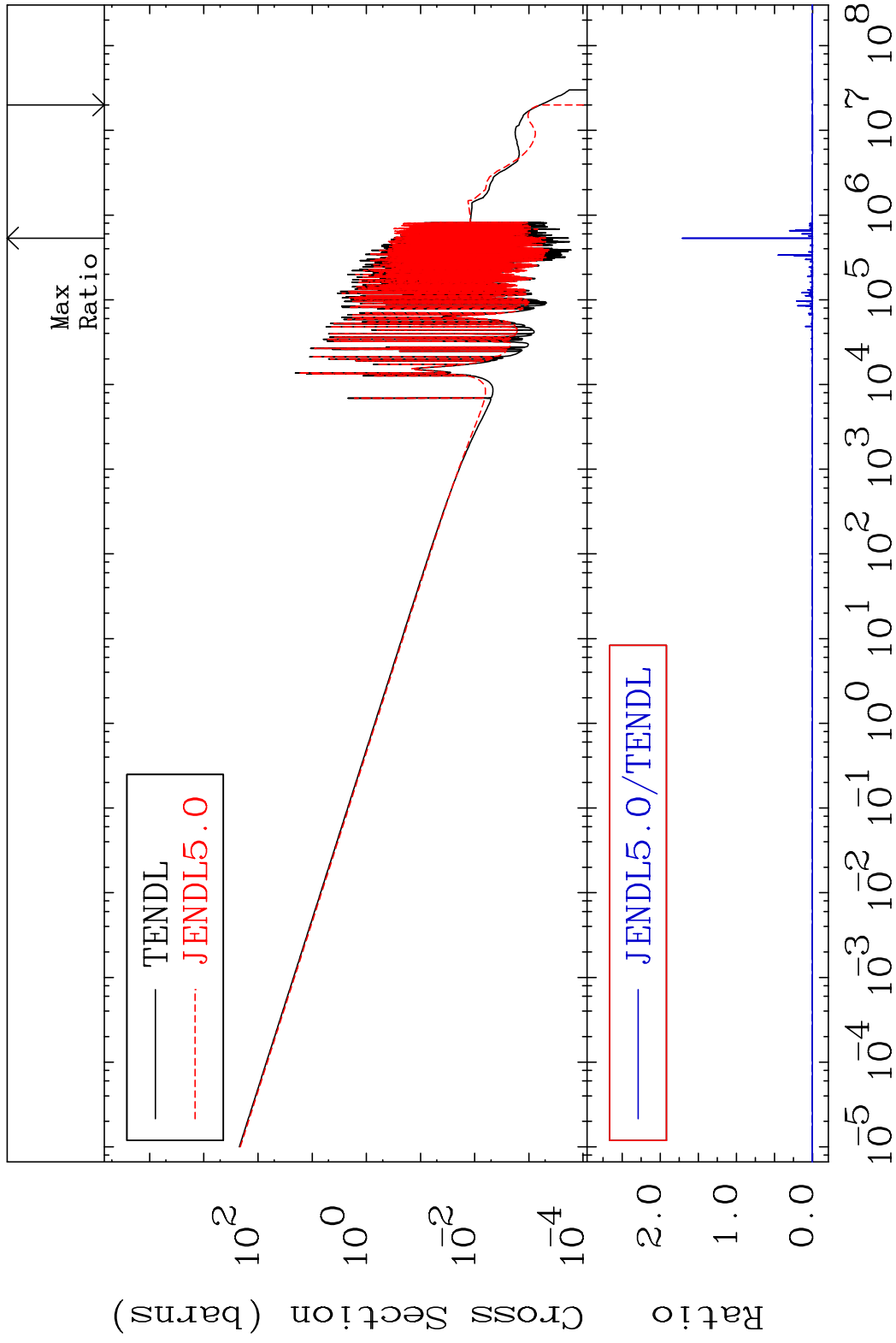
40 Incident Energy (eV) 28-Ni-58

MAT 2825

(n, γ)

28-Ni-58

Cross Section -100.0 To 9999. %



41

Incident Energy (eV)

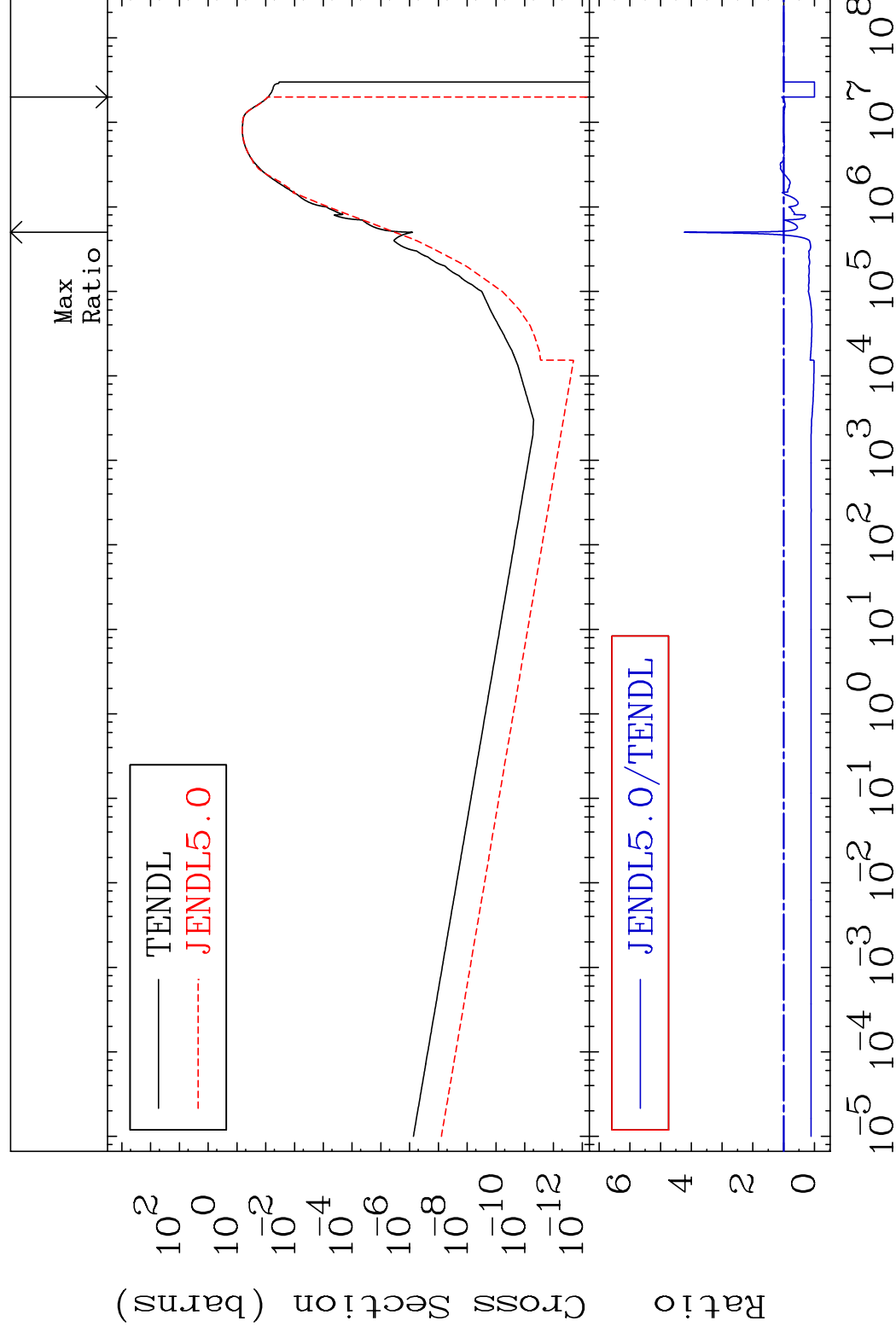
28-Ni-58

MAT 2825

(n, p)

28-Ni-58

Cross Section -100.0 To 322.4 %

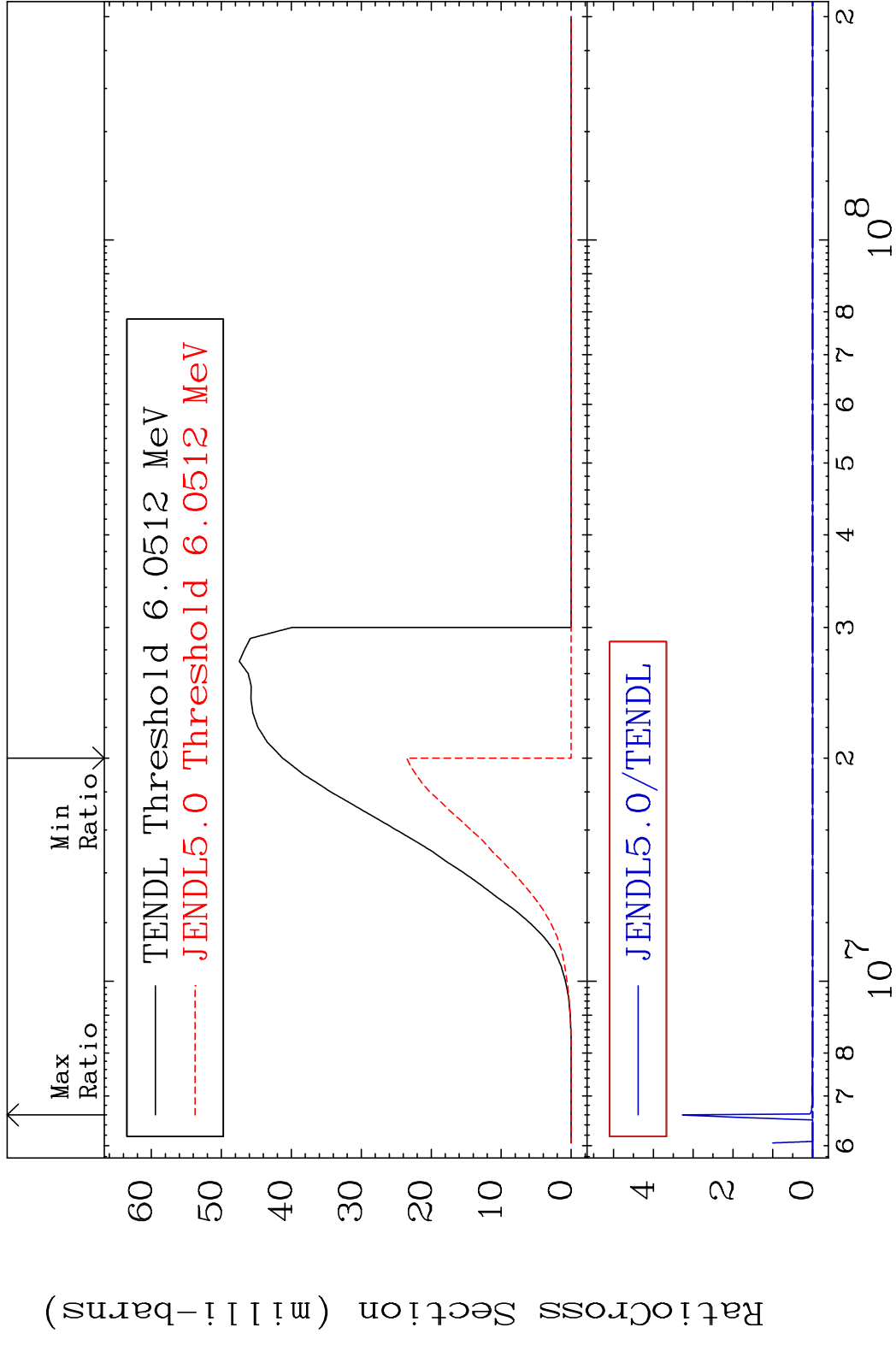


42

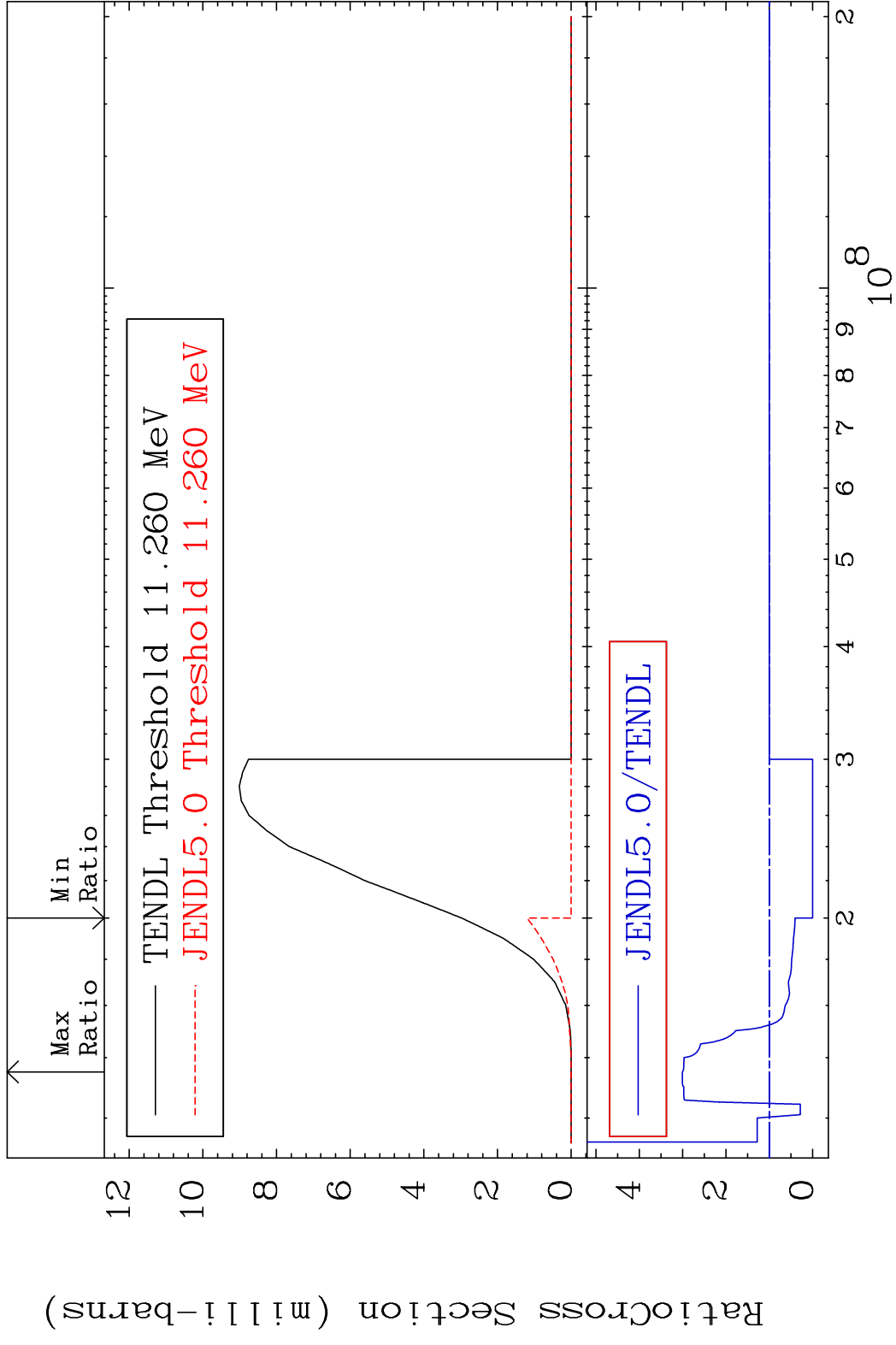
Incident Energy (eV)

28-Ni-58

MAT 2825 (n,d) 28-Ni-58
 Cross Section -100.0 To 9999. %



43 28-Ni-58

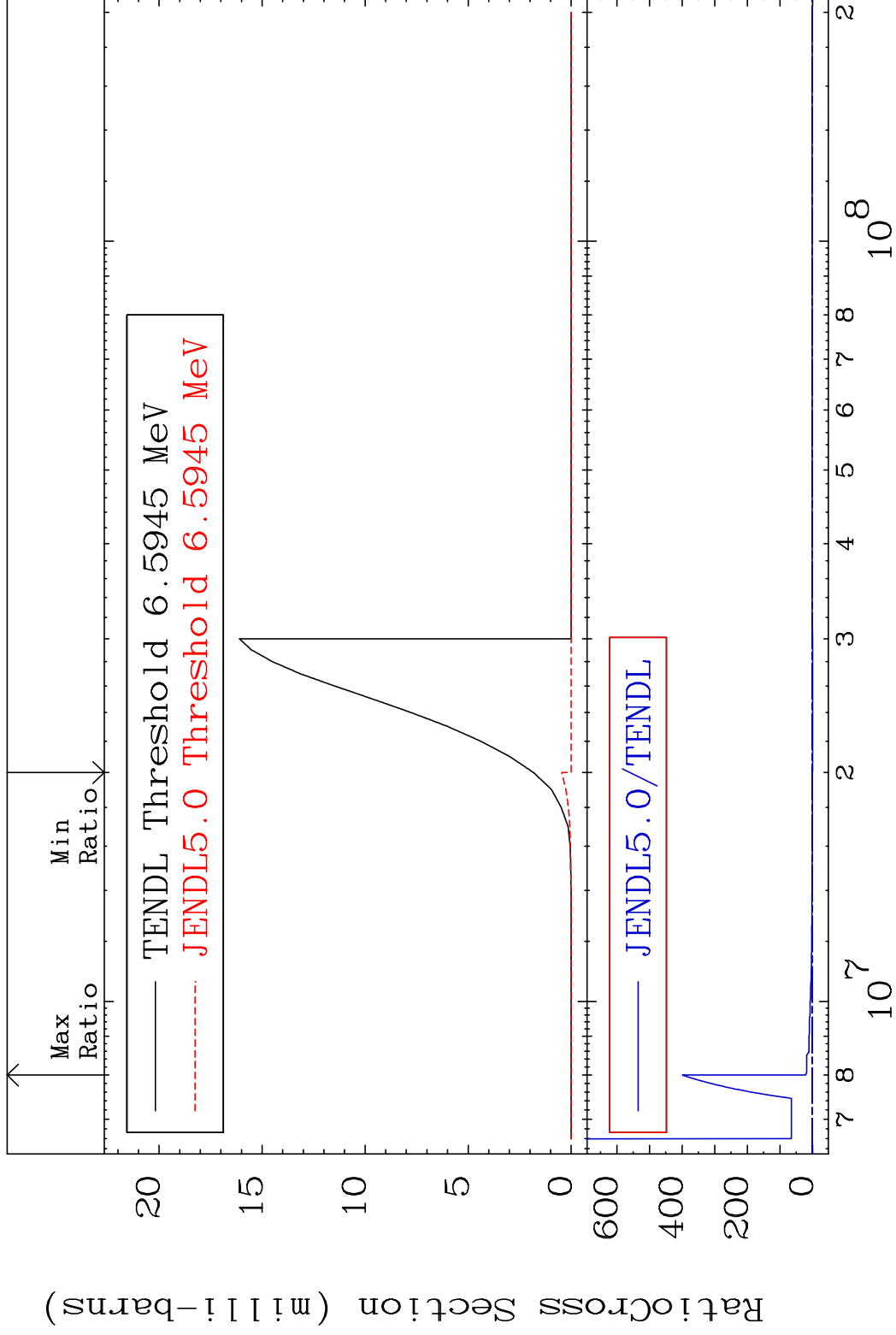


MAT 2825

(n, He-3)

28-Ni-58

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

28-Ni-58

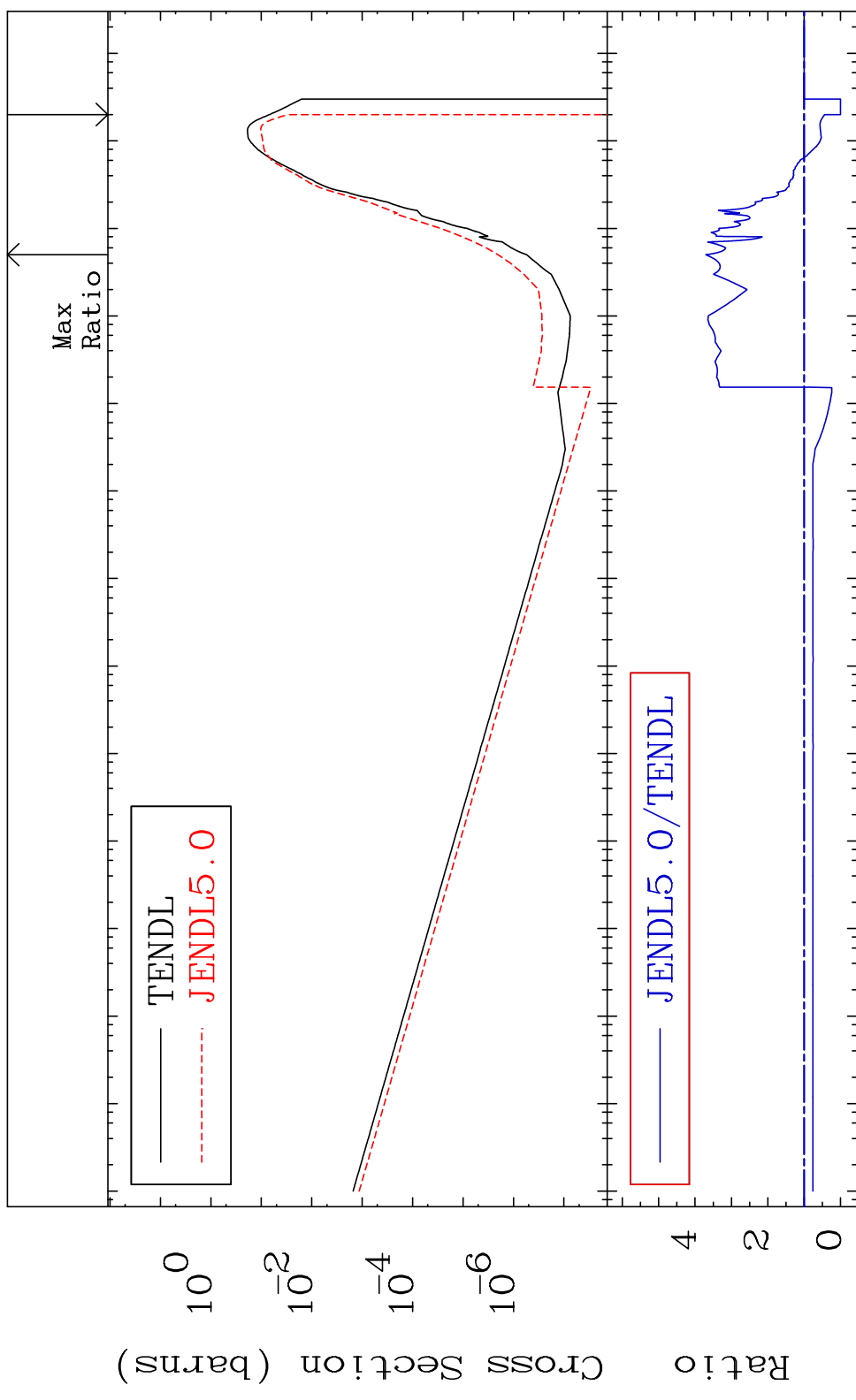
MAT 2825

(n, α)

28-Ni-58

Cross Section

-100.0 To 270.5 %

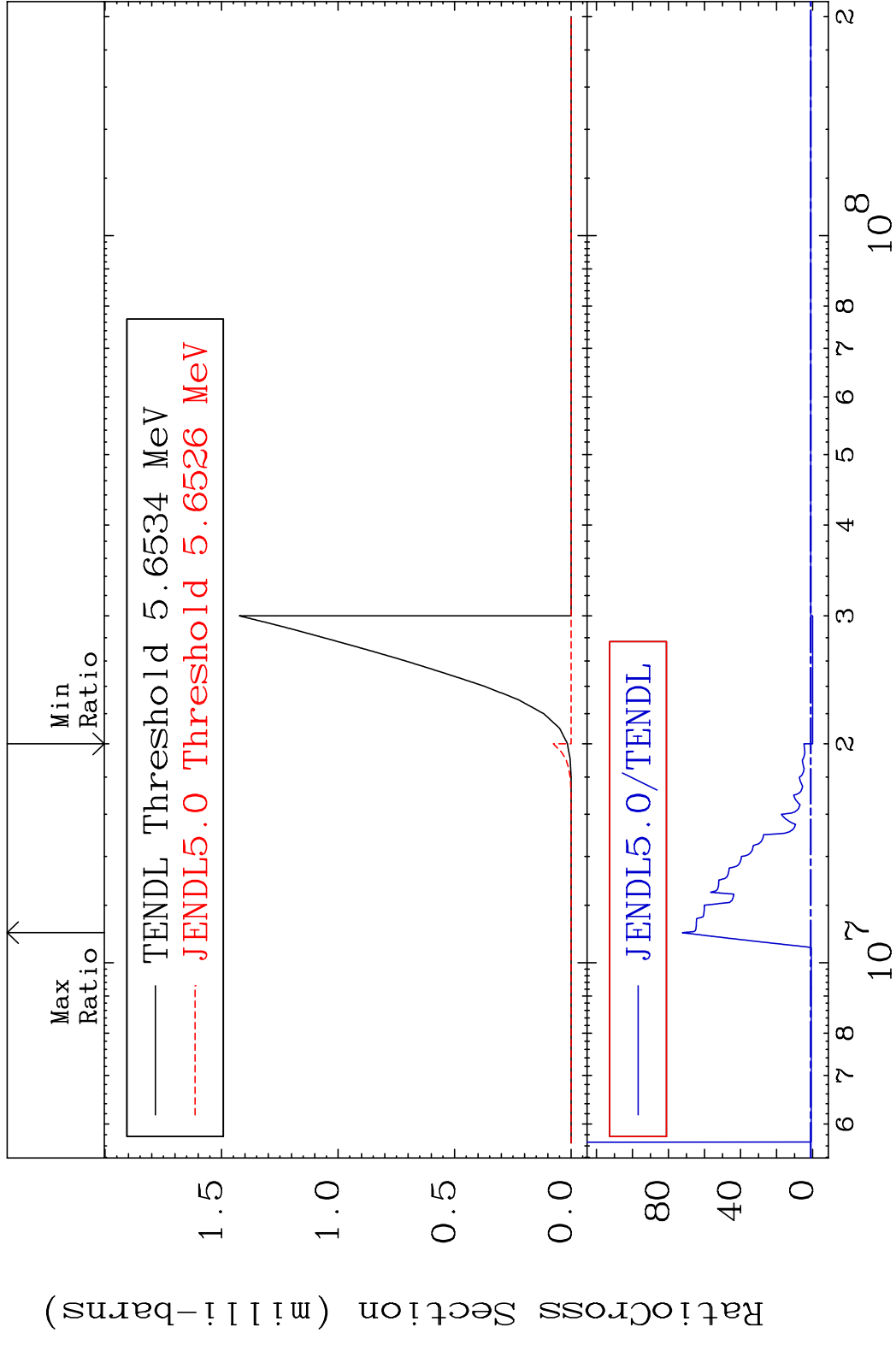


46

Incident Energy (eV)

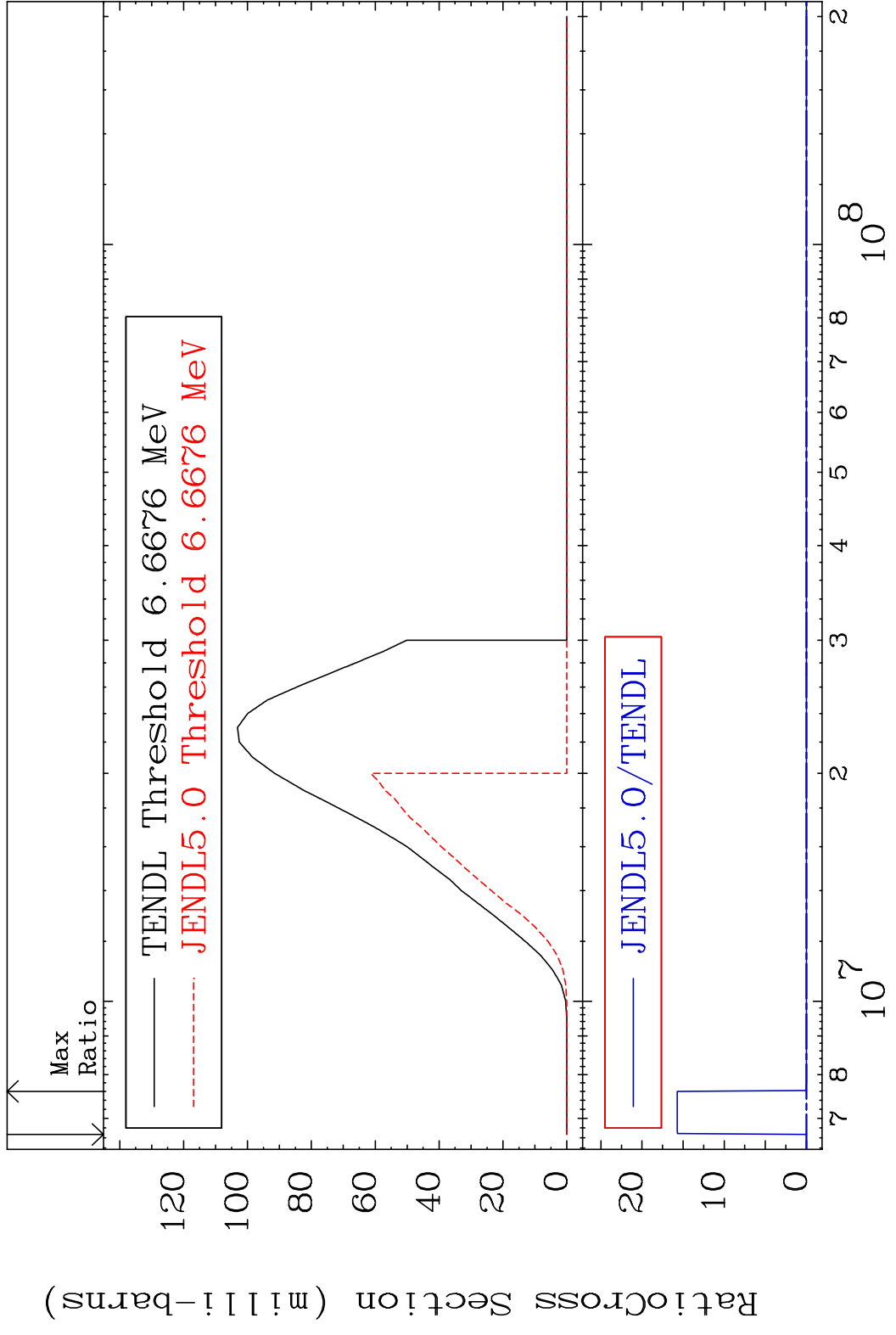
28-Ni-58

MAT 2825 (n,2α) 28-Ni-58
 Cross Section -100.0 To 7128. %

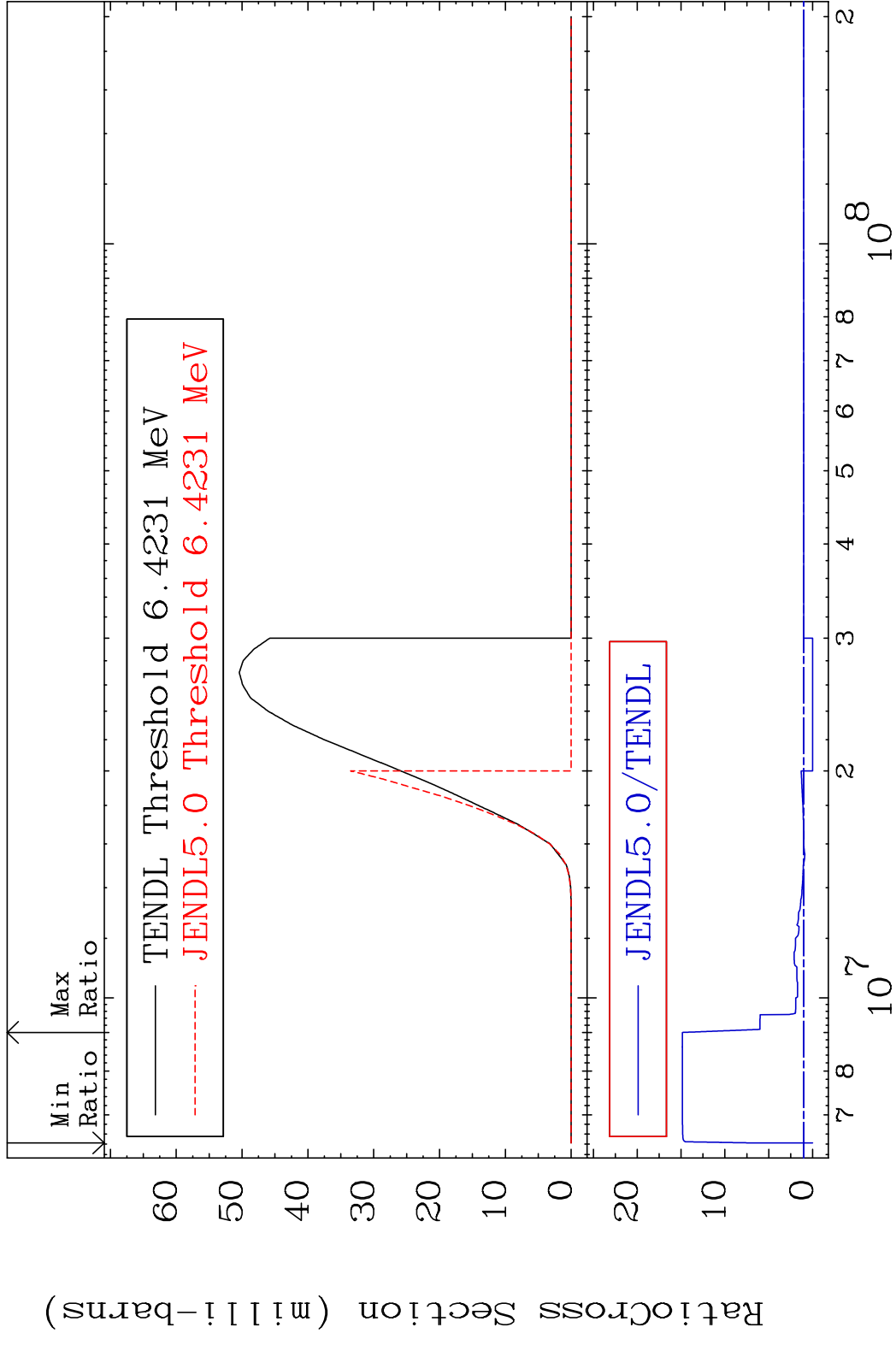


47 Incident Energy (eV) 28-Ni-58

MAT 2825 (n,2p) 28-Ni-58
 Cross Section -100.0 To 9999. %

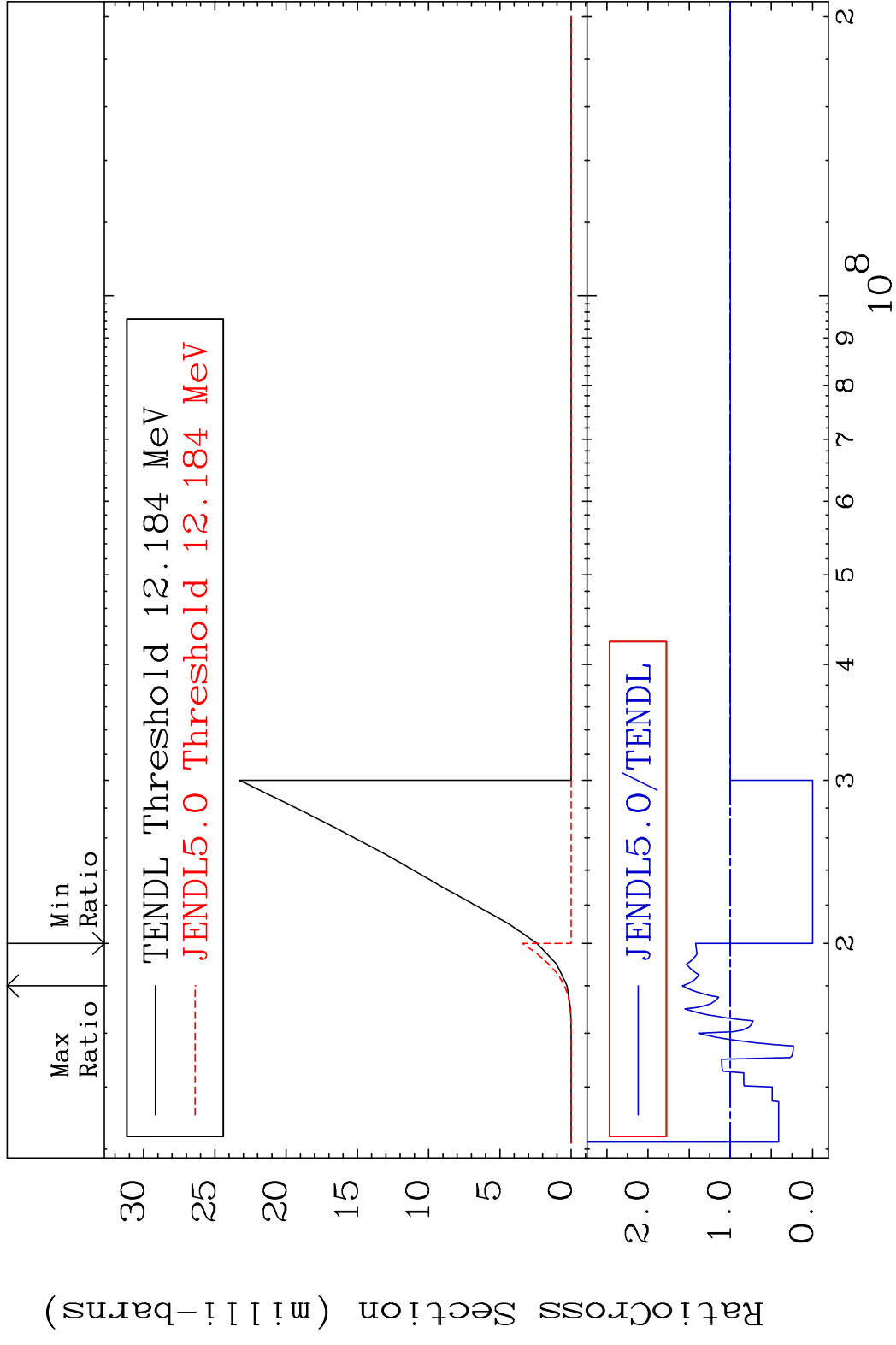


MAT 2825 (n,p) α 28-Ni-58
 Cross Section -100.0 To 1386. %

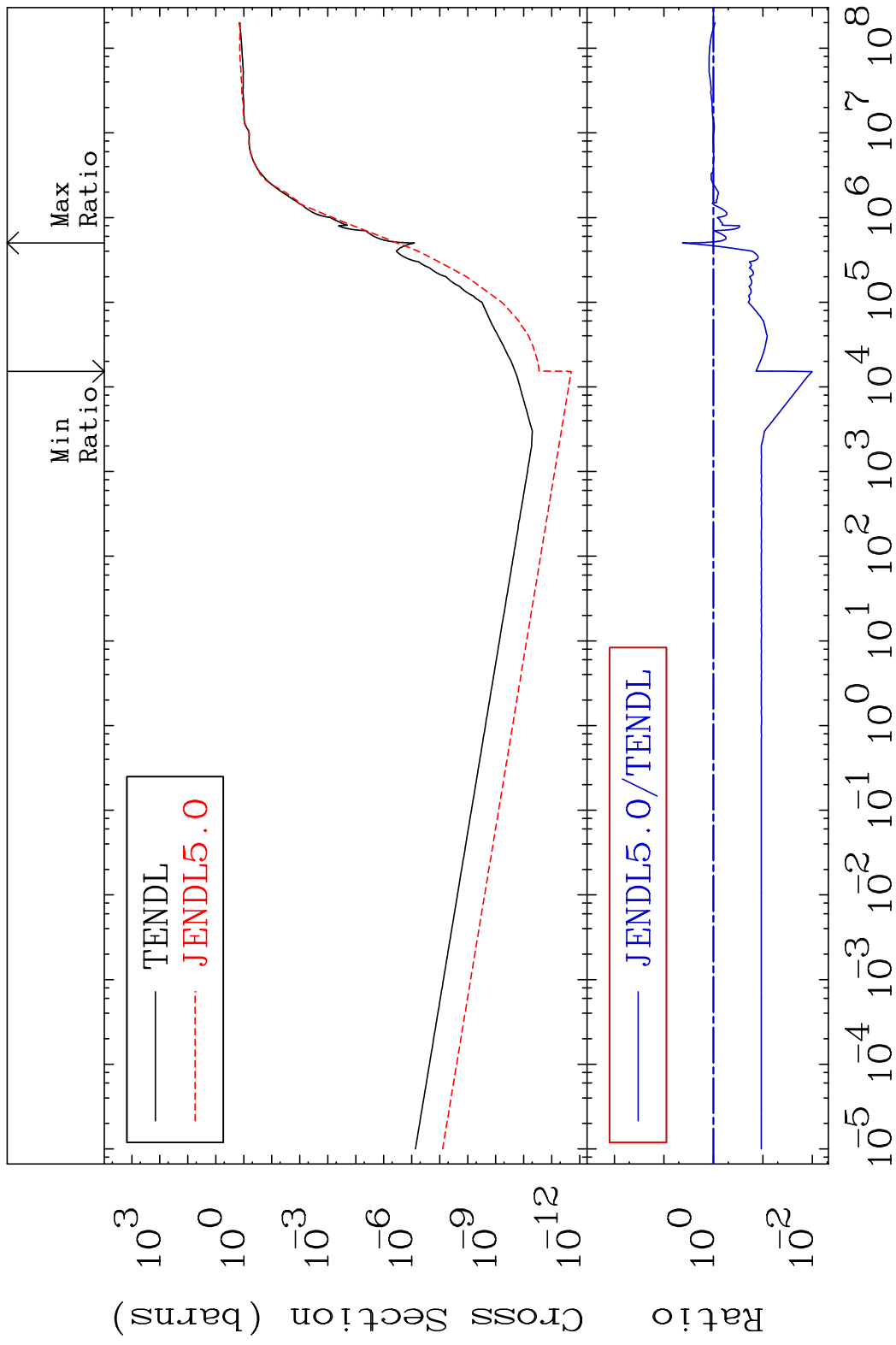


49 Incident Energy (eV) 28-Ni-58

MAT 2825 (n,p) d 28-Ni-58
 Cross Section -100.0 To 58.29 %

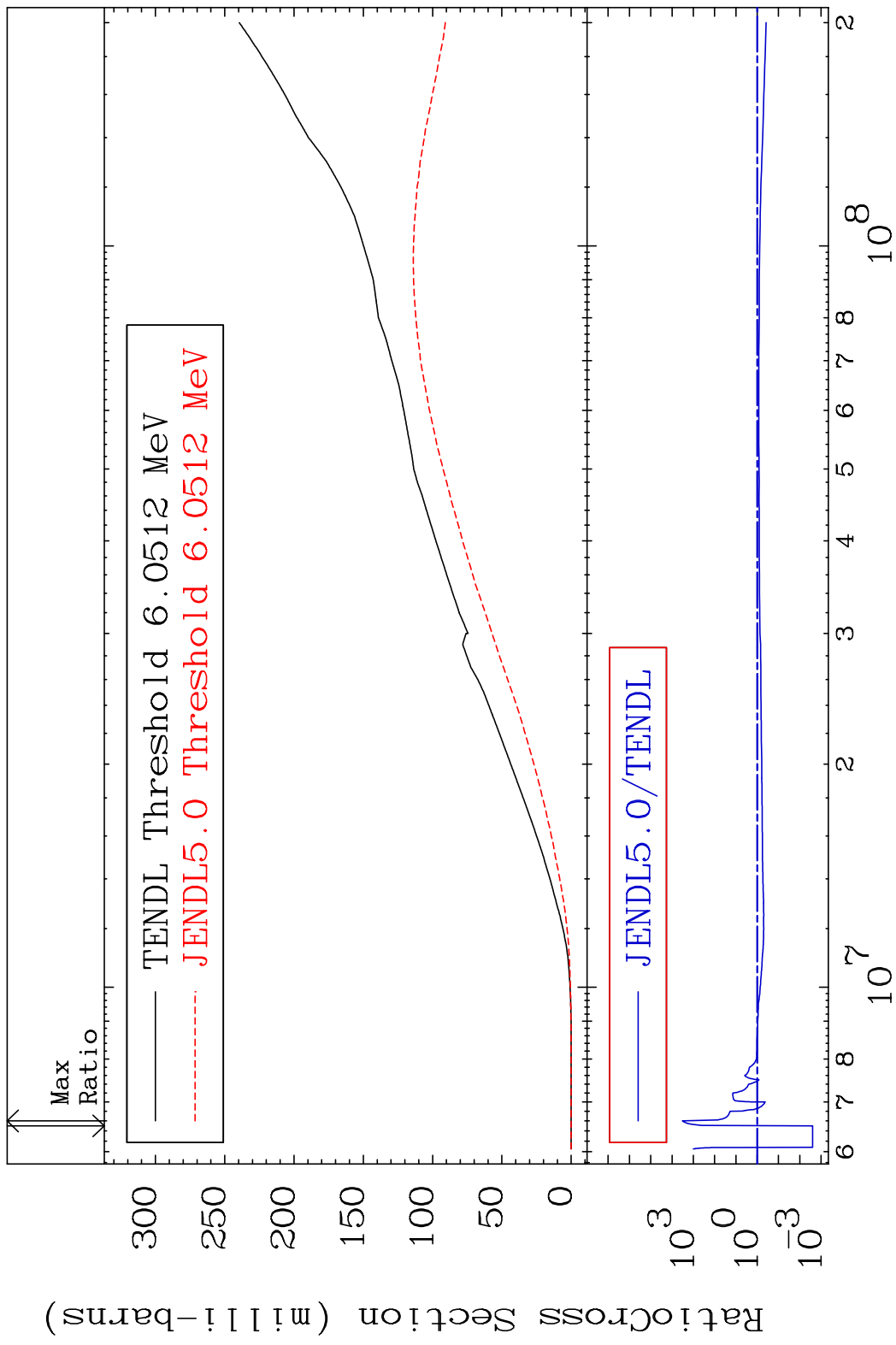


MAT 2825 Hydrogen Production 28-Ni-58
 Cross Section -99.01 To 322.4 %



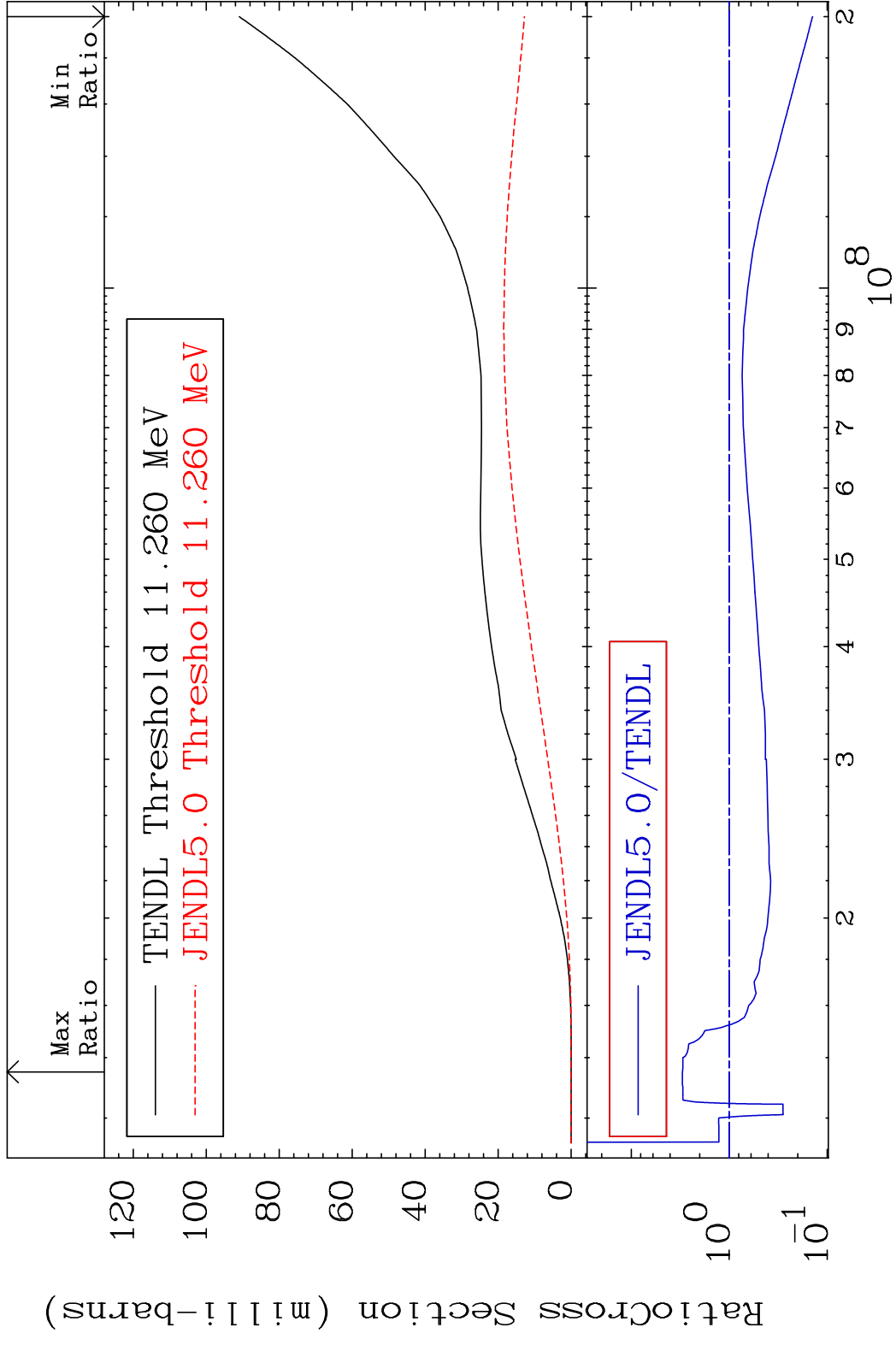
51 Incident Energy (eV) 28-Ni-58

MAT 2825 Deuterium Production 28-Ni-58
 Cross Section -99.75 To 9999. %



52 28-Ni-58

MAT 2825 Tritium Production 28-Ni-58
 Cross Section -85.90 To 200.5 %



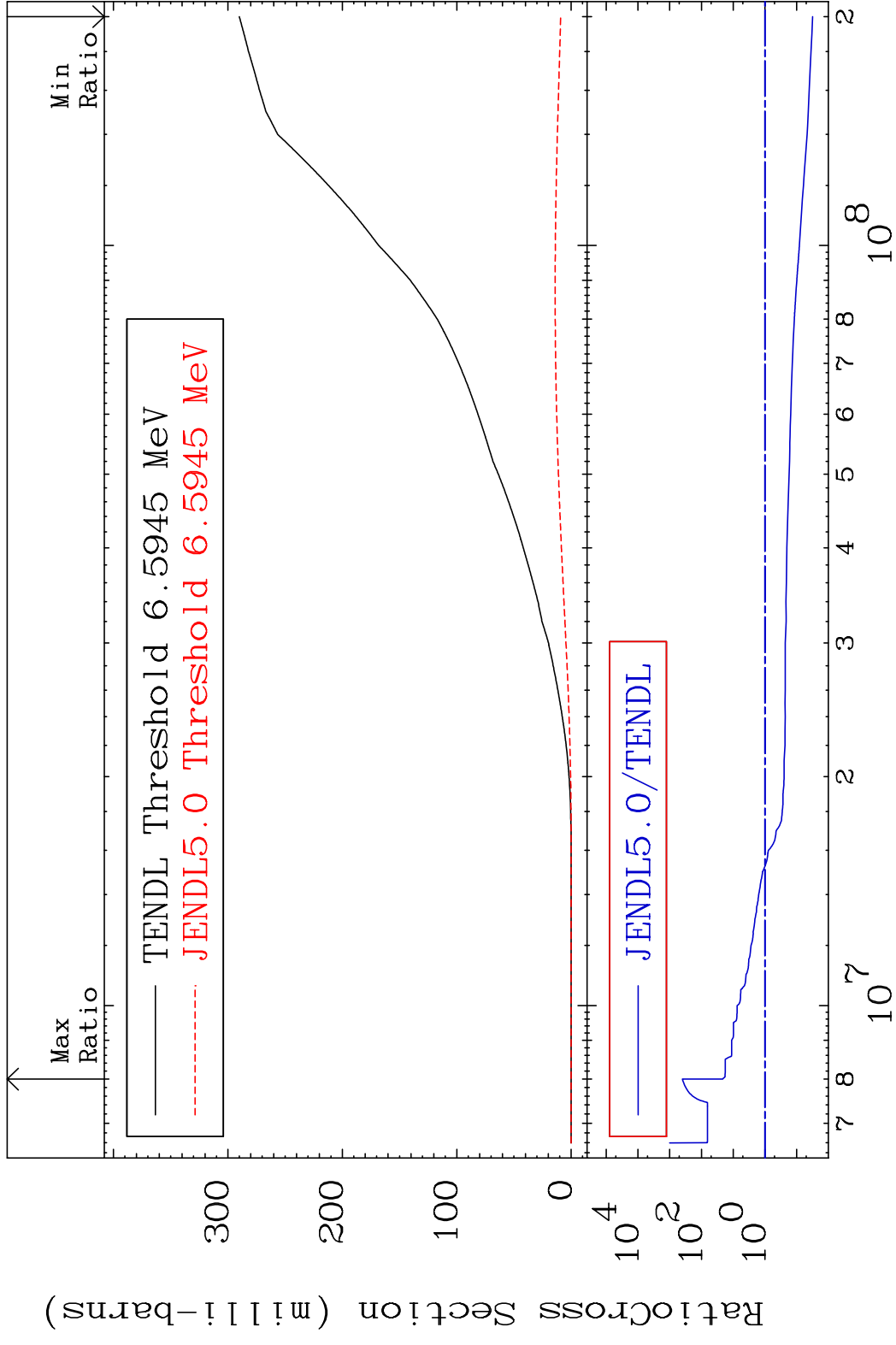
53 Incident Energy (eV) 28-Ni-58

MAT 2825

He-3 Production

28-Ni-58

Cross Section -96.82 To 9999. %



54

Incident Energy (eV)

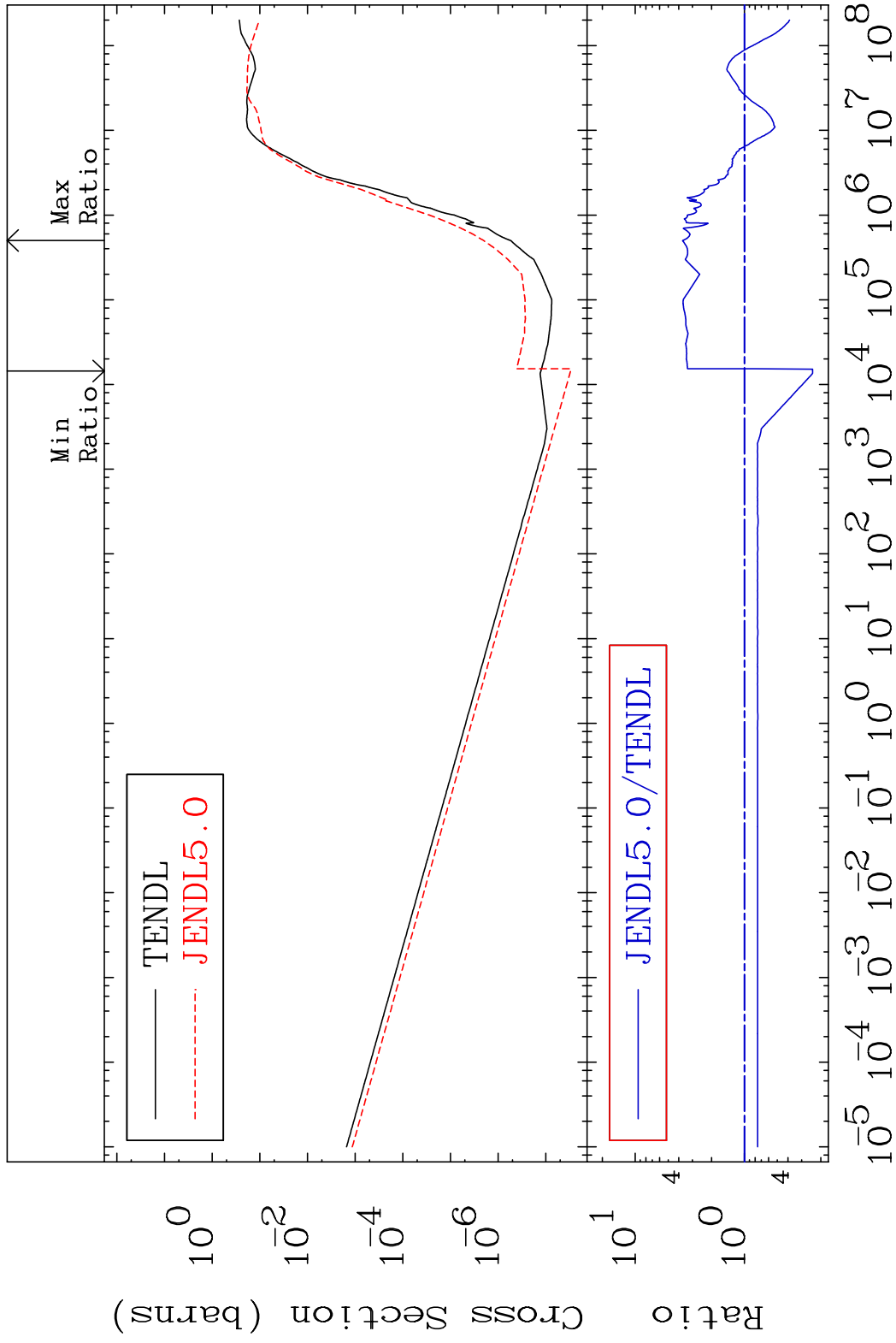
28-Ni-58

MAT 2825

He-4 Production

28-Ni-58

Cross Section -76.22 To 270.5 %

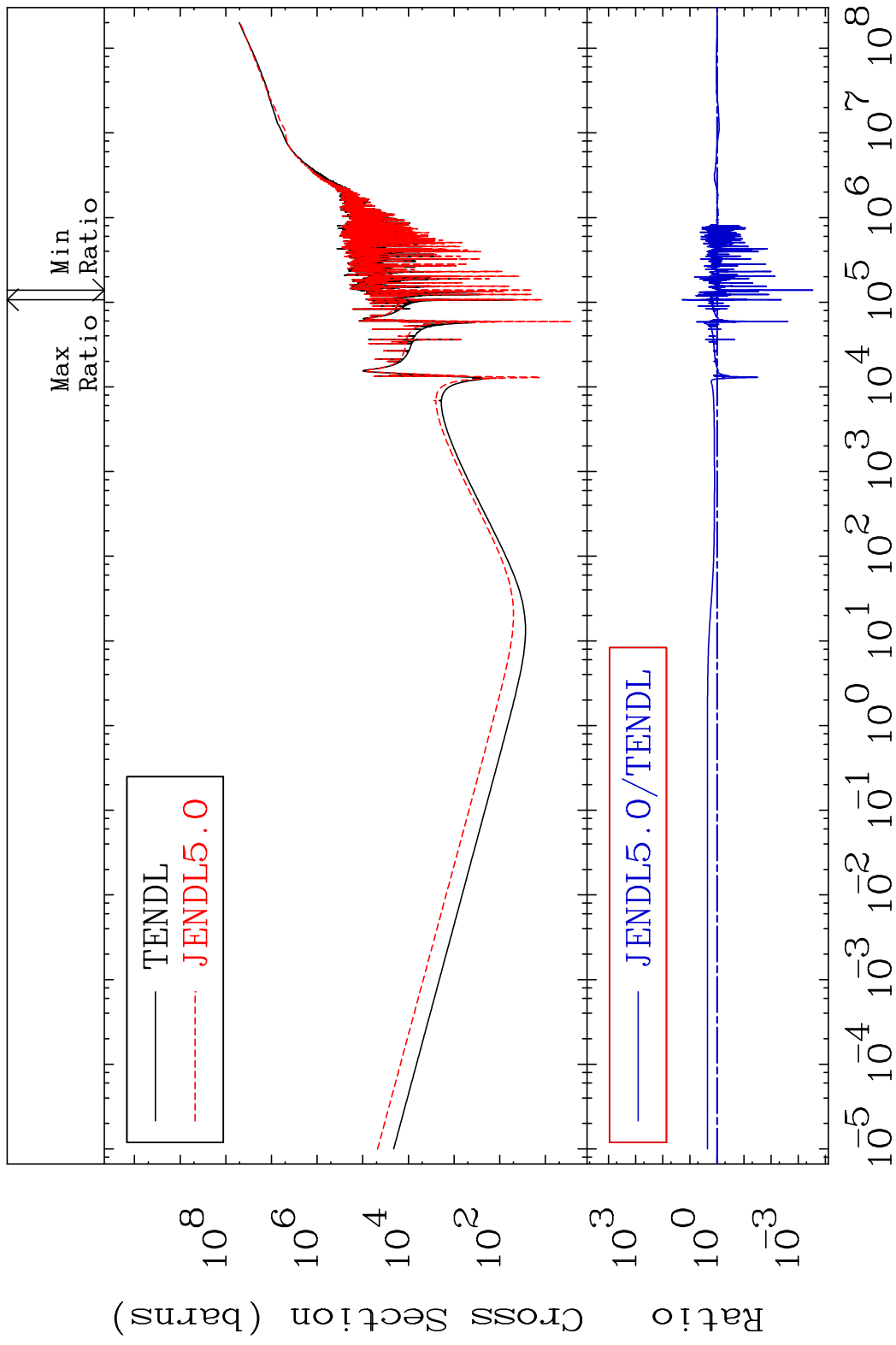


55

Incident Energy (eV)

28-Ni-58

MAT 2825 Kerma total (eV-barns) 28-Ni-58
Cross Section -99.97 To 1787. %

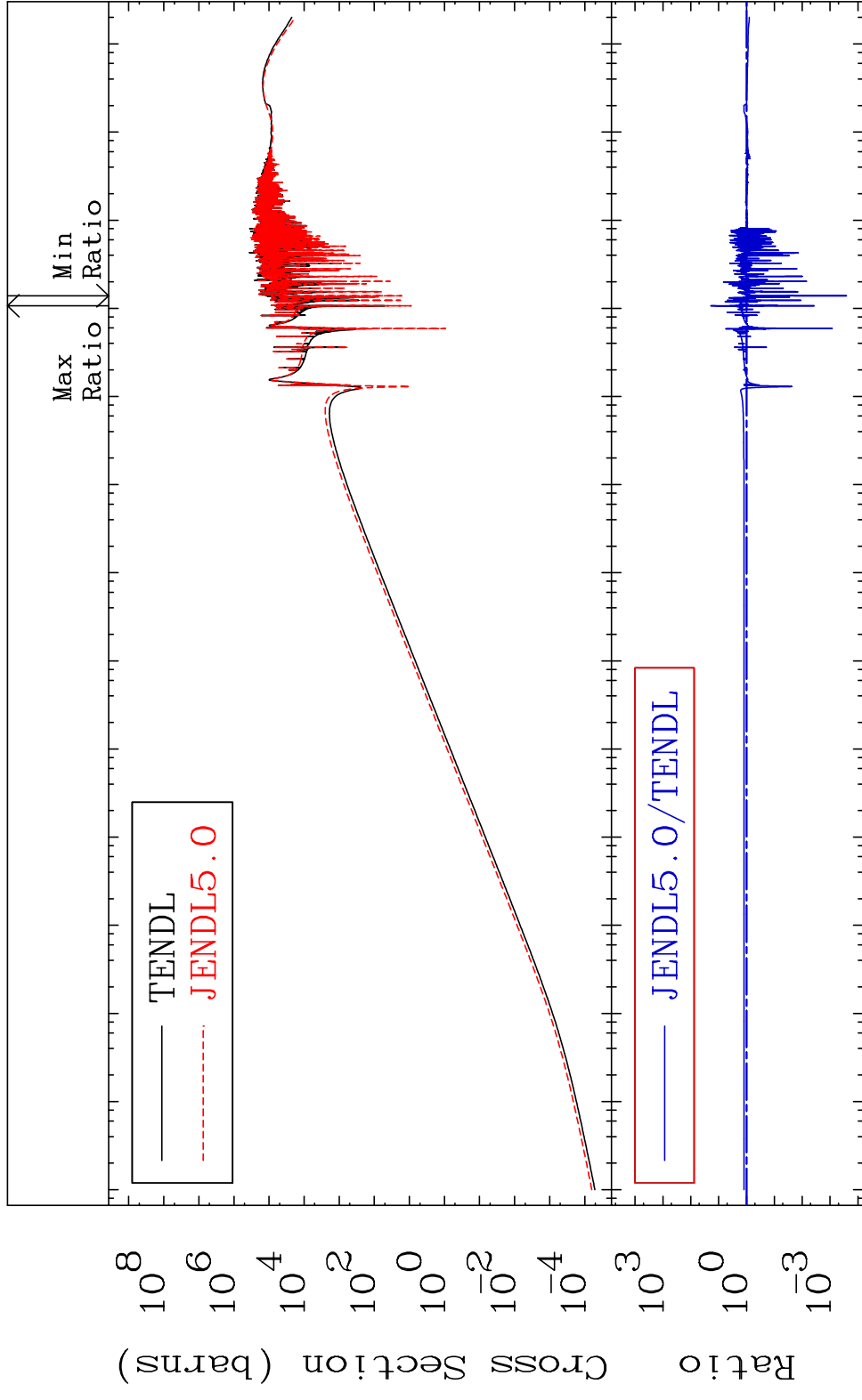


56 Incident Energy (eV) 28-Ni-58

MAT 2825

Kerma elastic
Cross Section

28-Ni-58
-99.97 To 1828. %

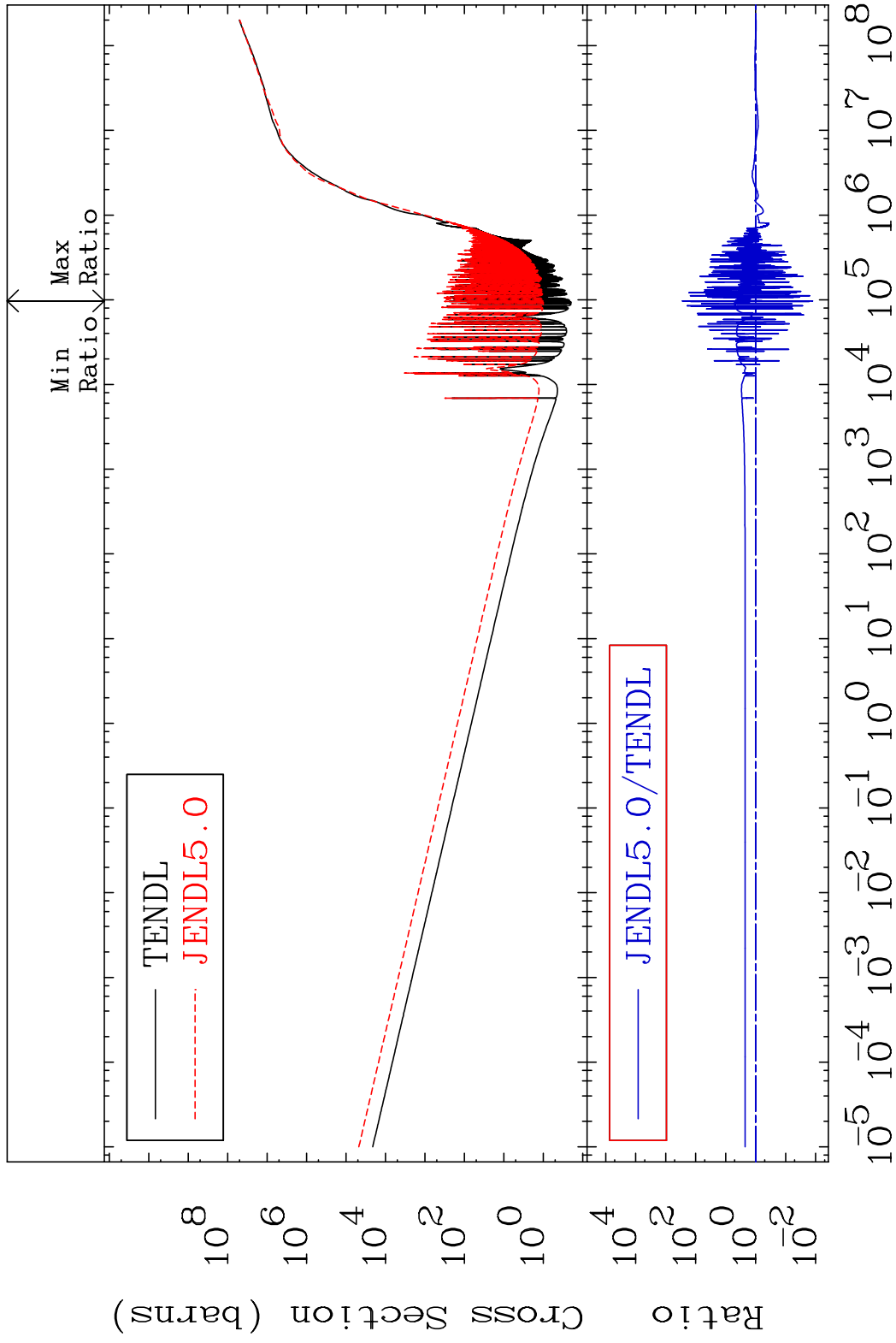


57

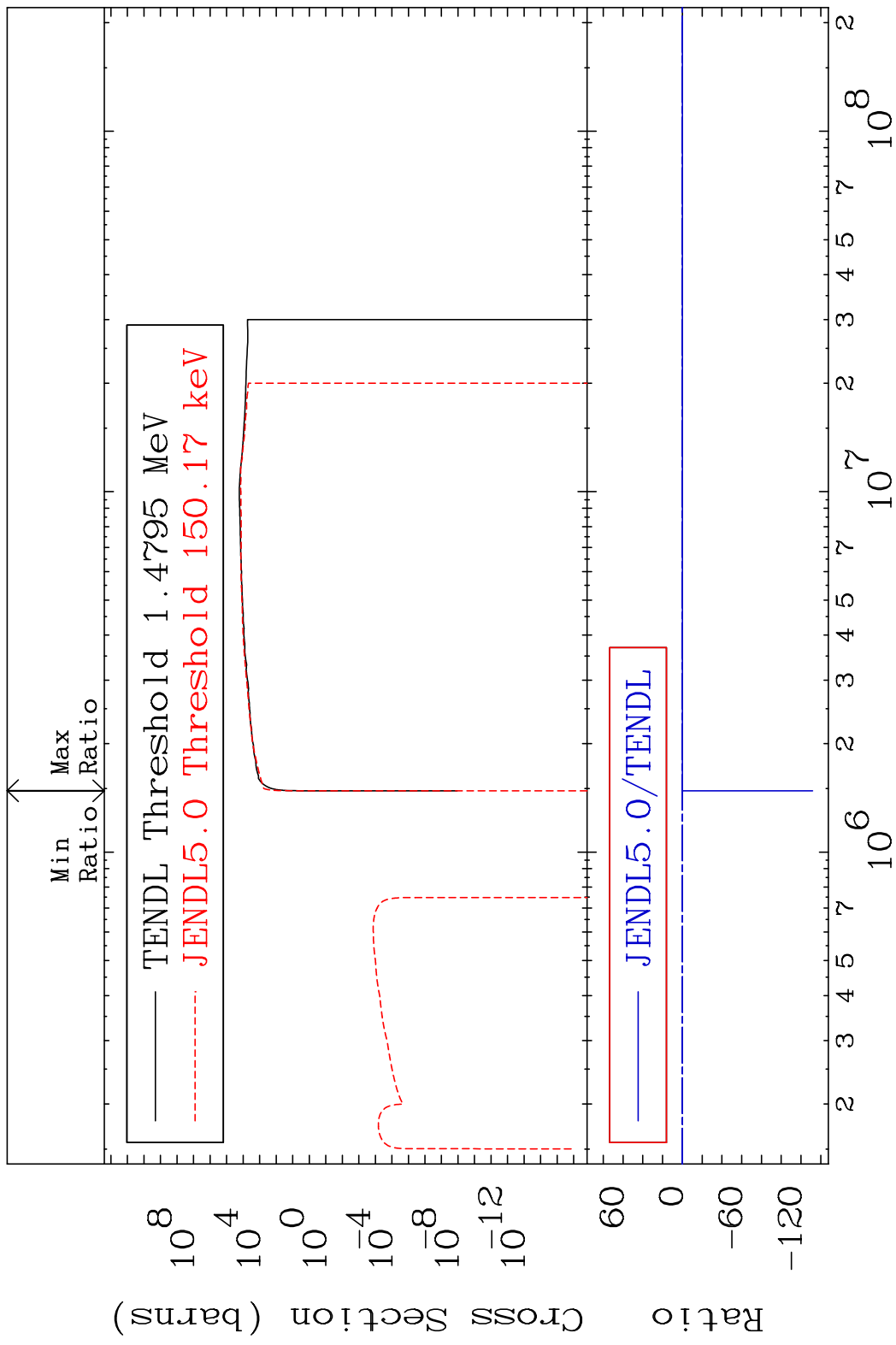
Incident Energy (eV)

28-Ni-58

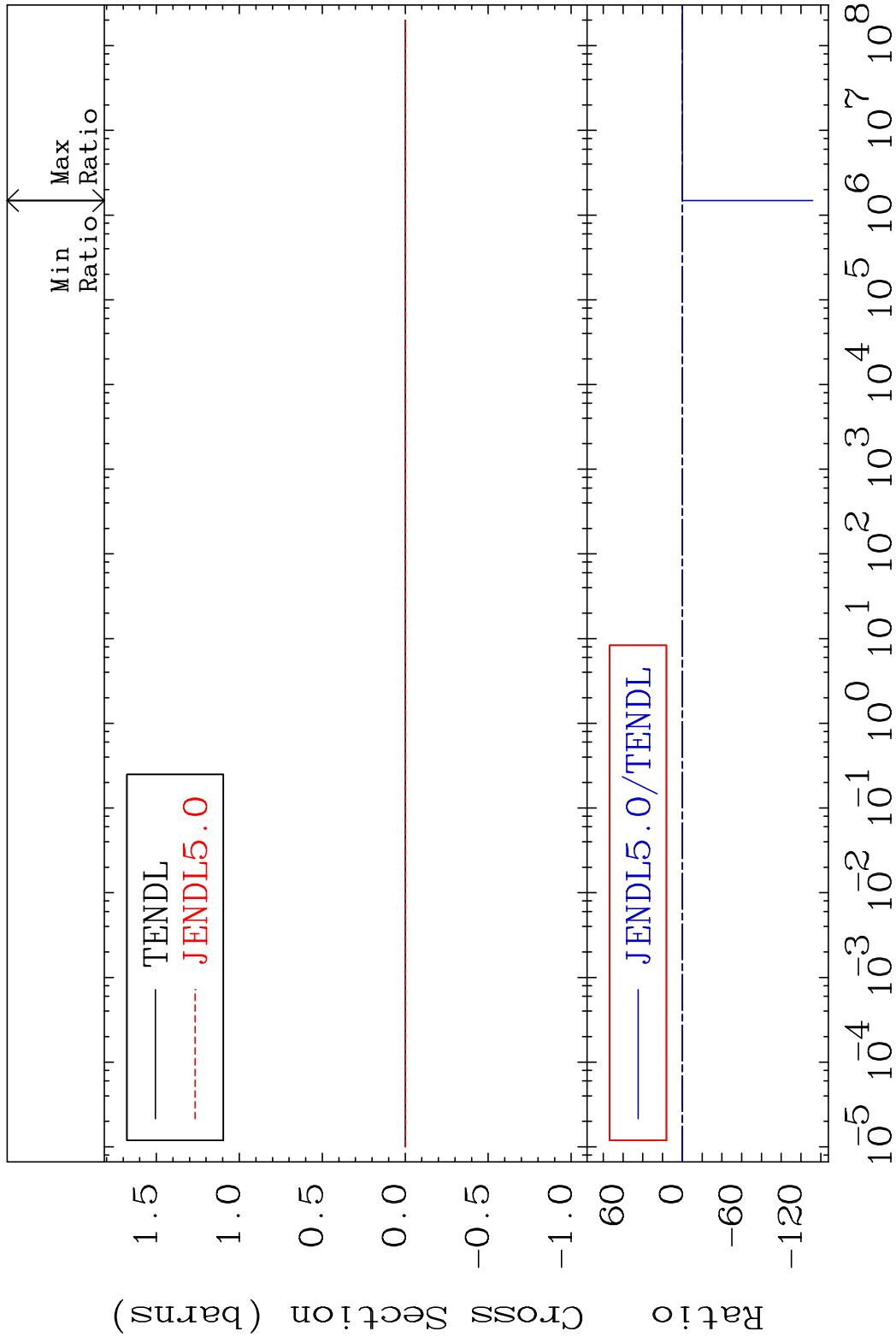
MAT 2825 Kerma non-elastic (all but mt2) 28-Ni-58
 Cross Section -98.73 To 9999. %



MAT 2825 Kerma inelastic (mt51-91) 28-Ni-58
 Cross Section -9999. To 244.0 %



MAT 2825 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-58
 Cross Section -9999. To 244.0 %

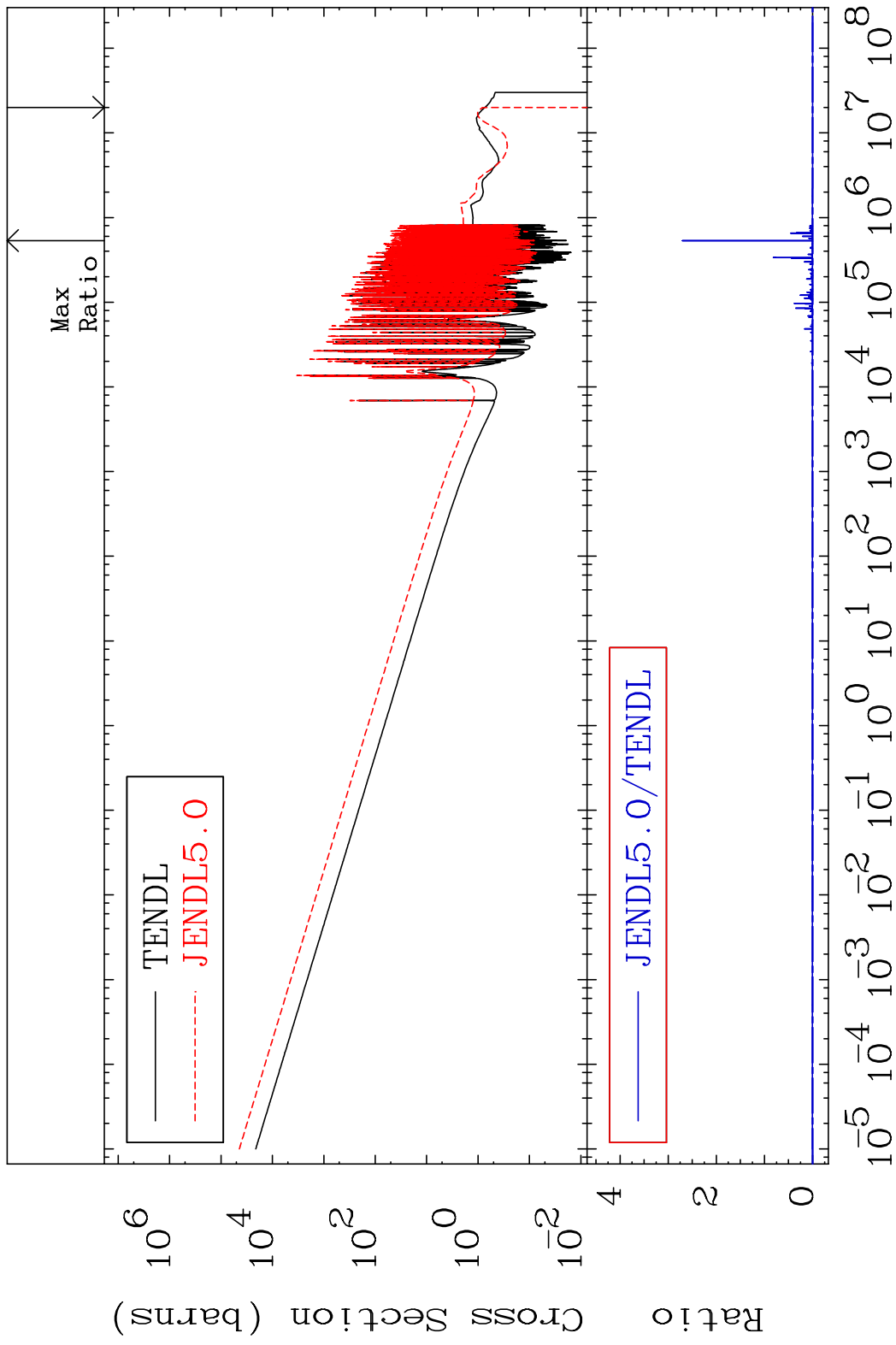


60

Incident Energy (eV)

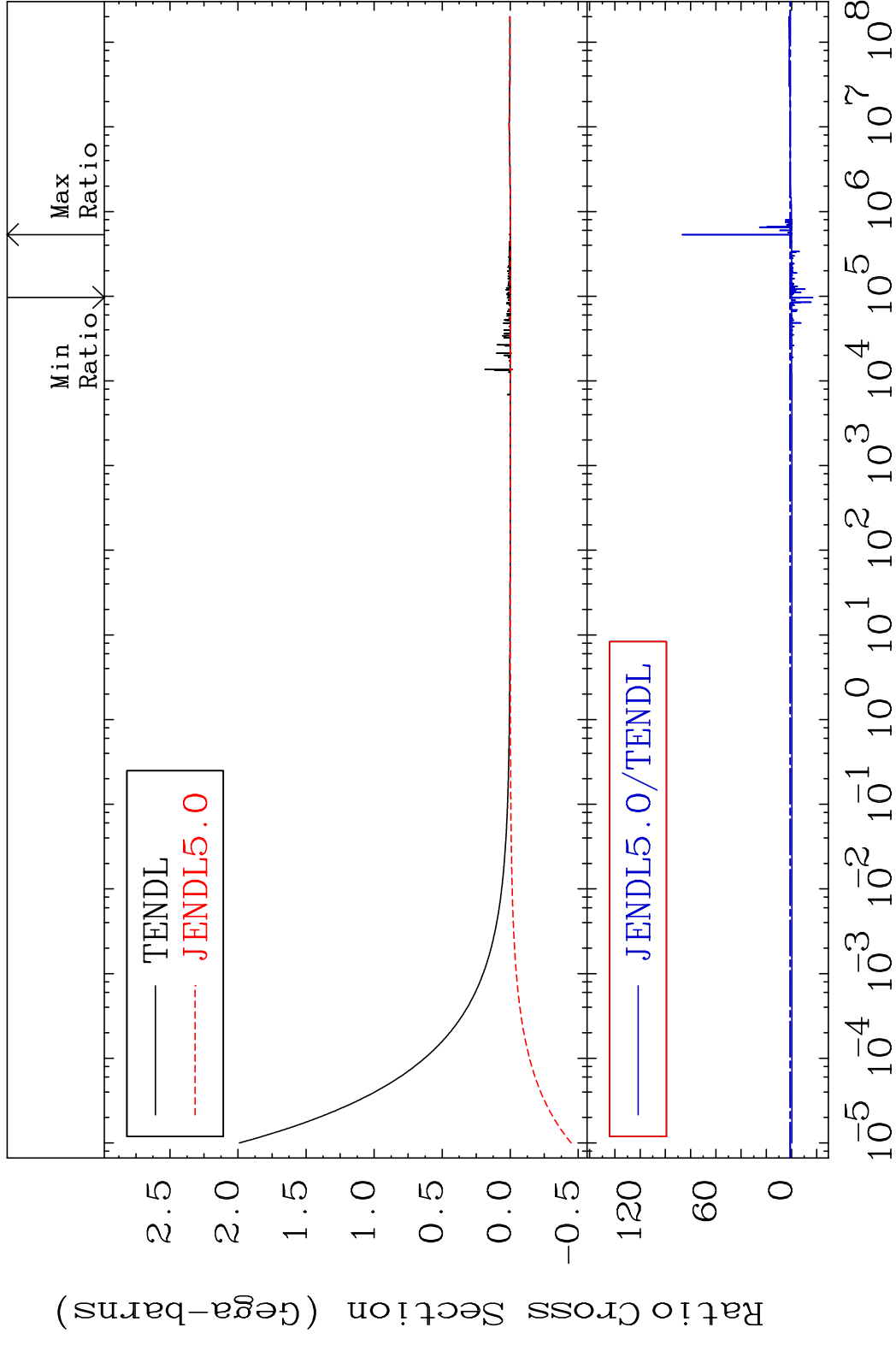
28-Ni-58

MAT 2825 Kerma capture (mt102) 28-Ni-58
Cross Section -100.0 To 9999. %



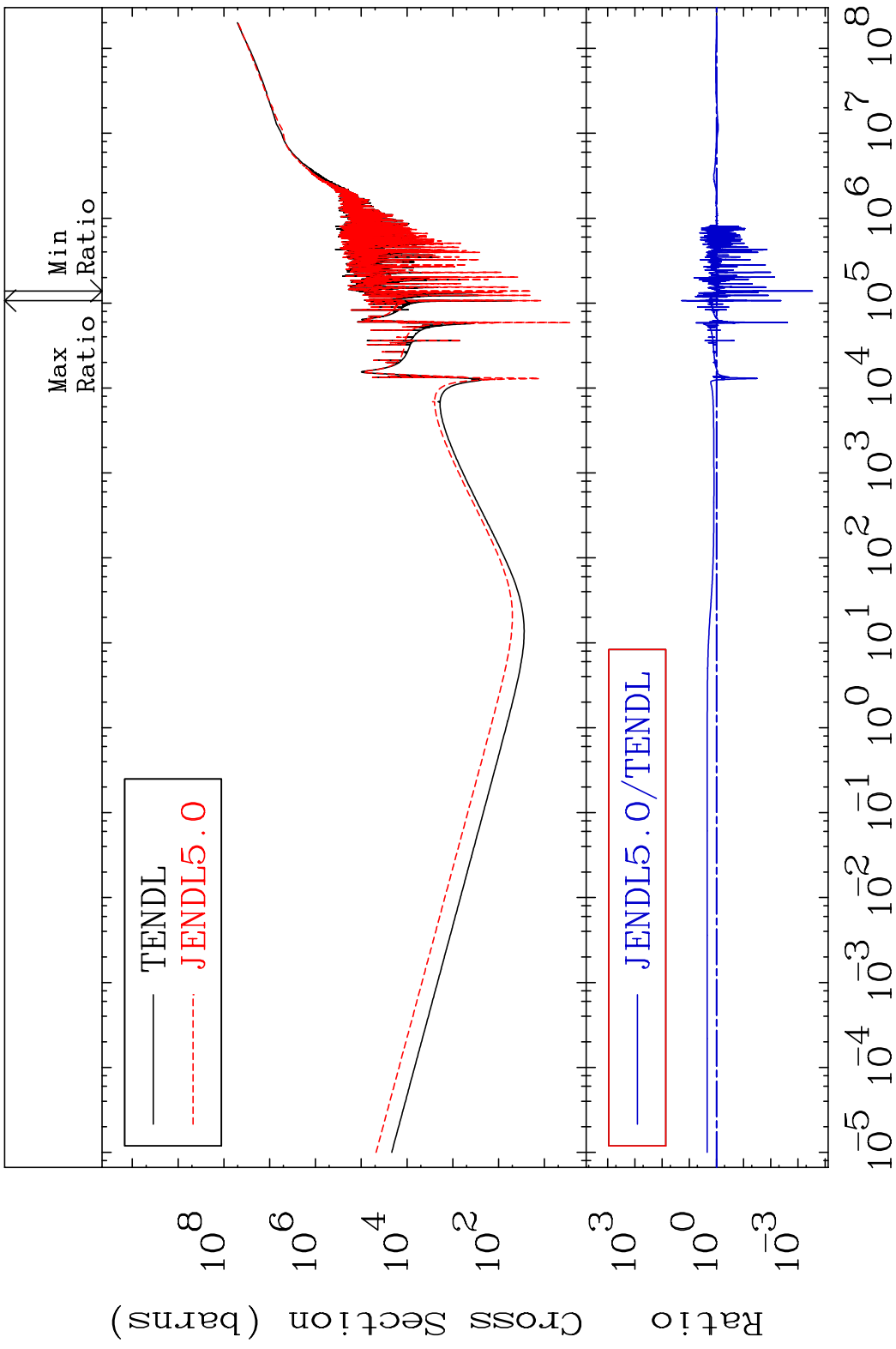
61 Incident Energy (eV) 28-Ni-58

MAT 2825 Total photon (eV-barns) 28-Ni-58
Cross Section -1762. To 8554. %

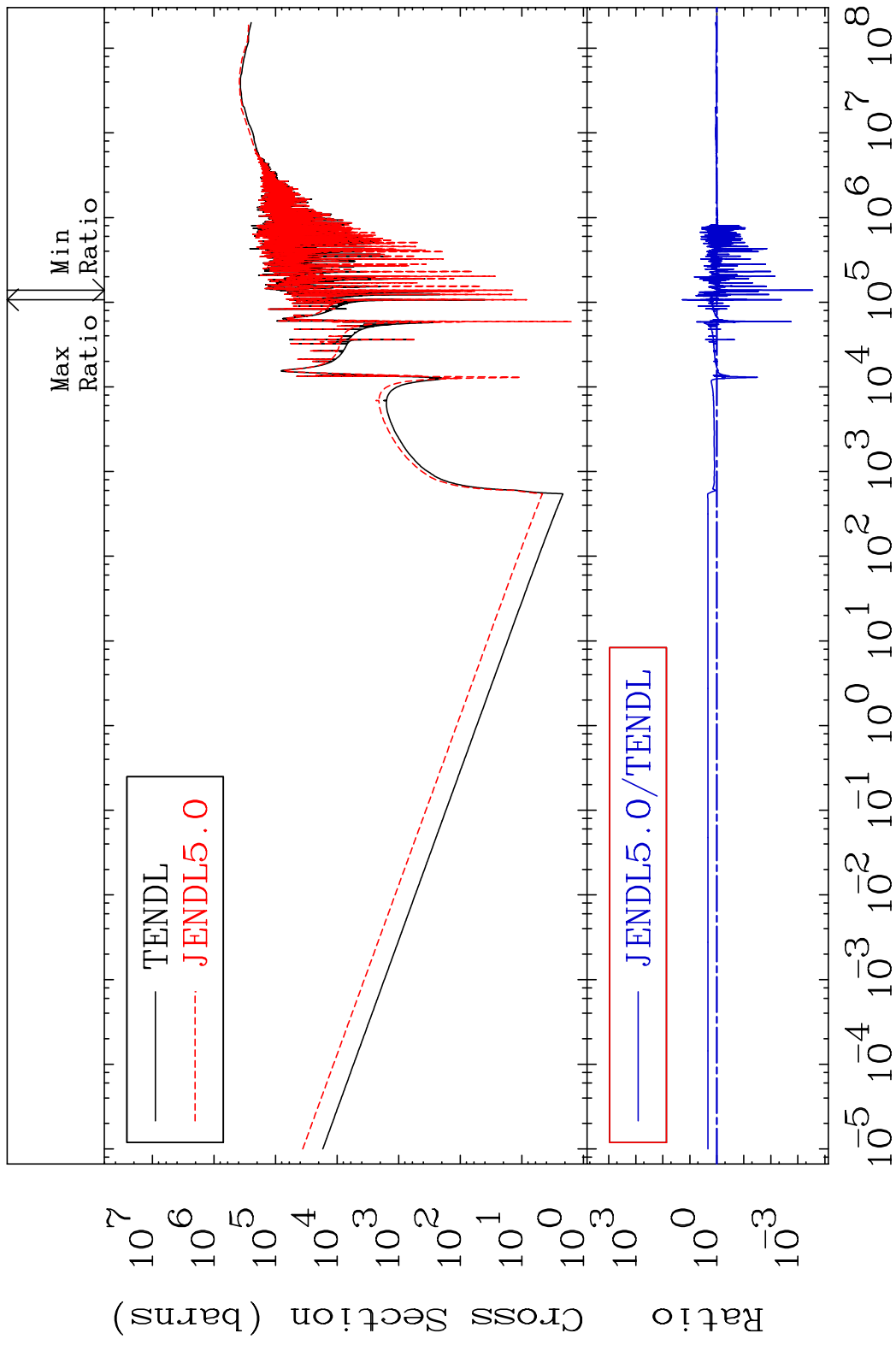


62 Incident Energy (eV) 28-Ni-58

MAT 2825 Total kinematic kerma (high limit) 28-Ni-58
Cross Section -99.97 To 1787. %



MAT 2825 Dpa total (eV-barns) 28-Ni-58
 Cross Section -99.97 To 1789. %



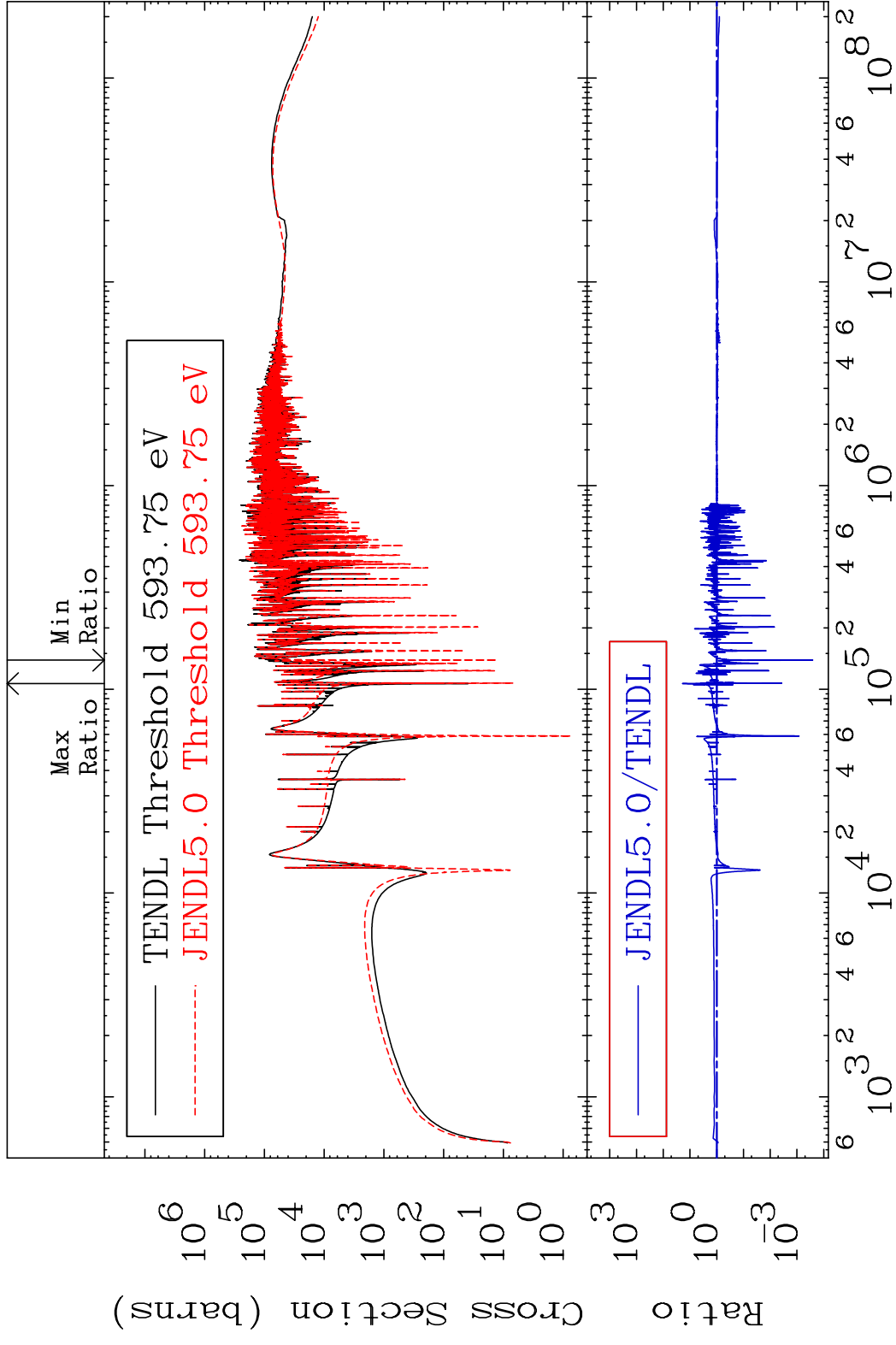
64 Incident Energy (eV) 28-Ni-58

MAT 2825

Dpa elastic (mt2)

28-Ni-58

Cross Section -99.97 To 1828. %

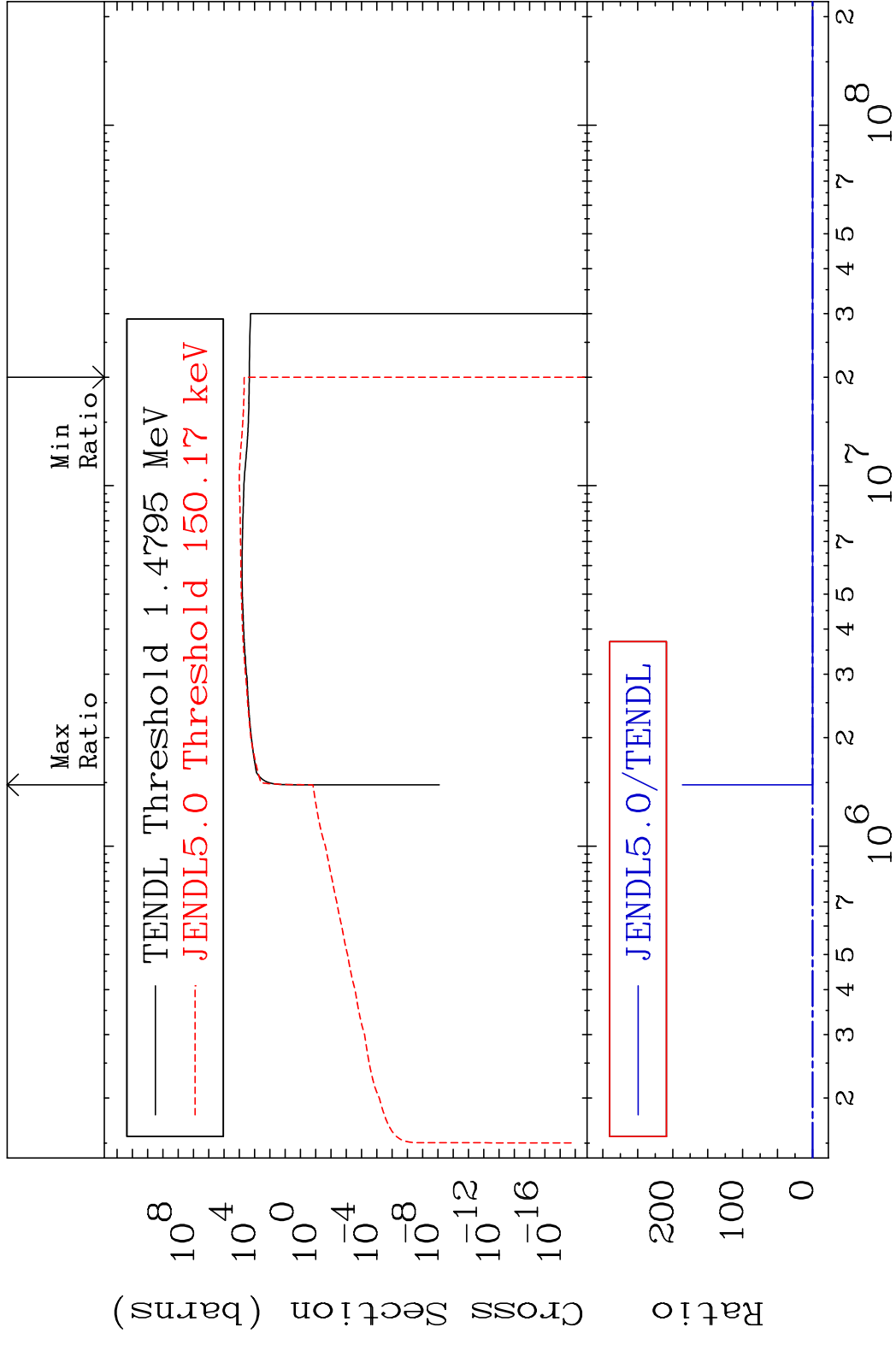


65

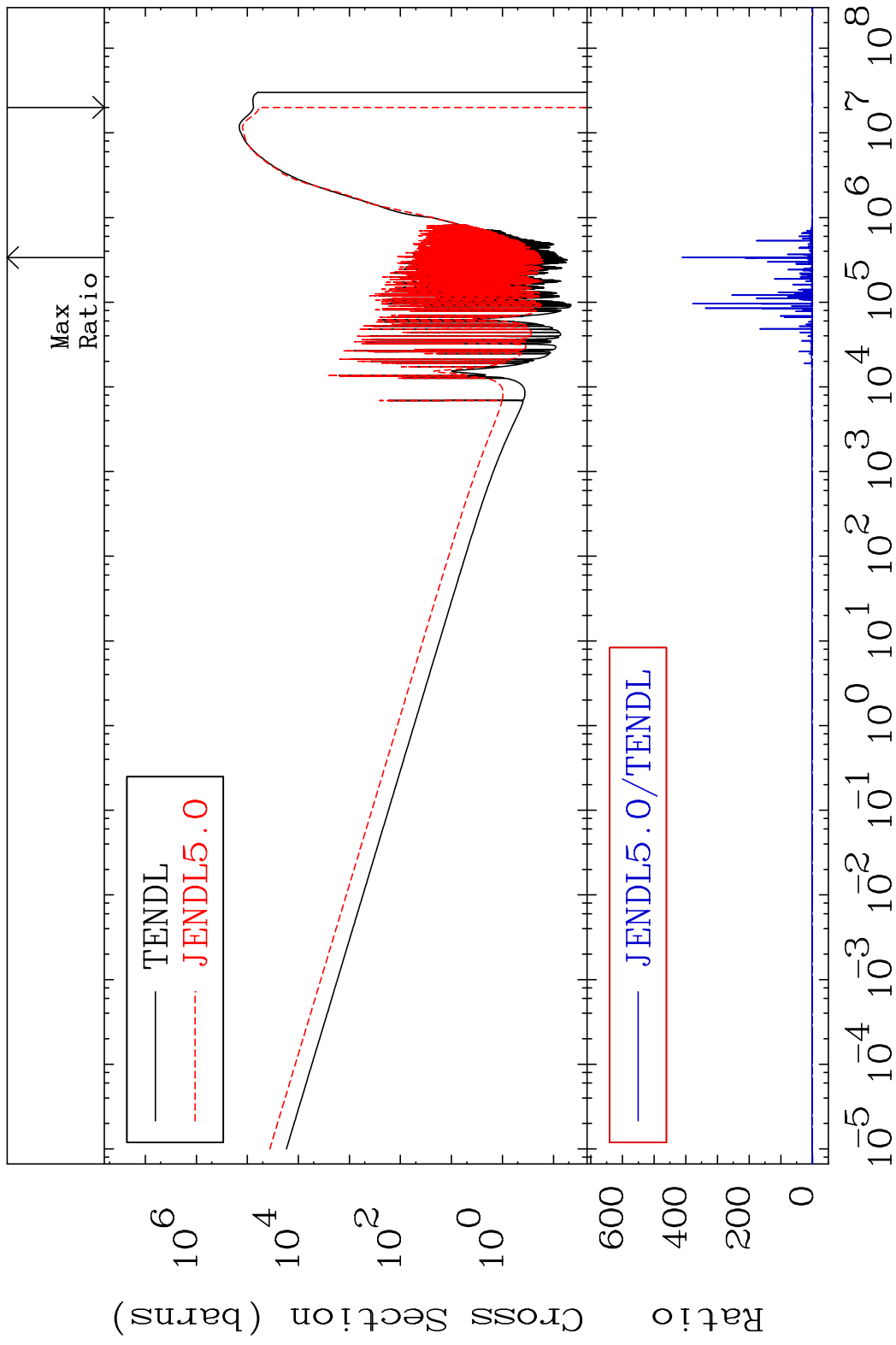
Incident Energy (eV)

28-Ni-58

MAT 2825 Dpa inelastic (mt51-91) 28-Ni-58
 Cross Section -100.0 To 9999. %

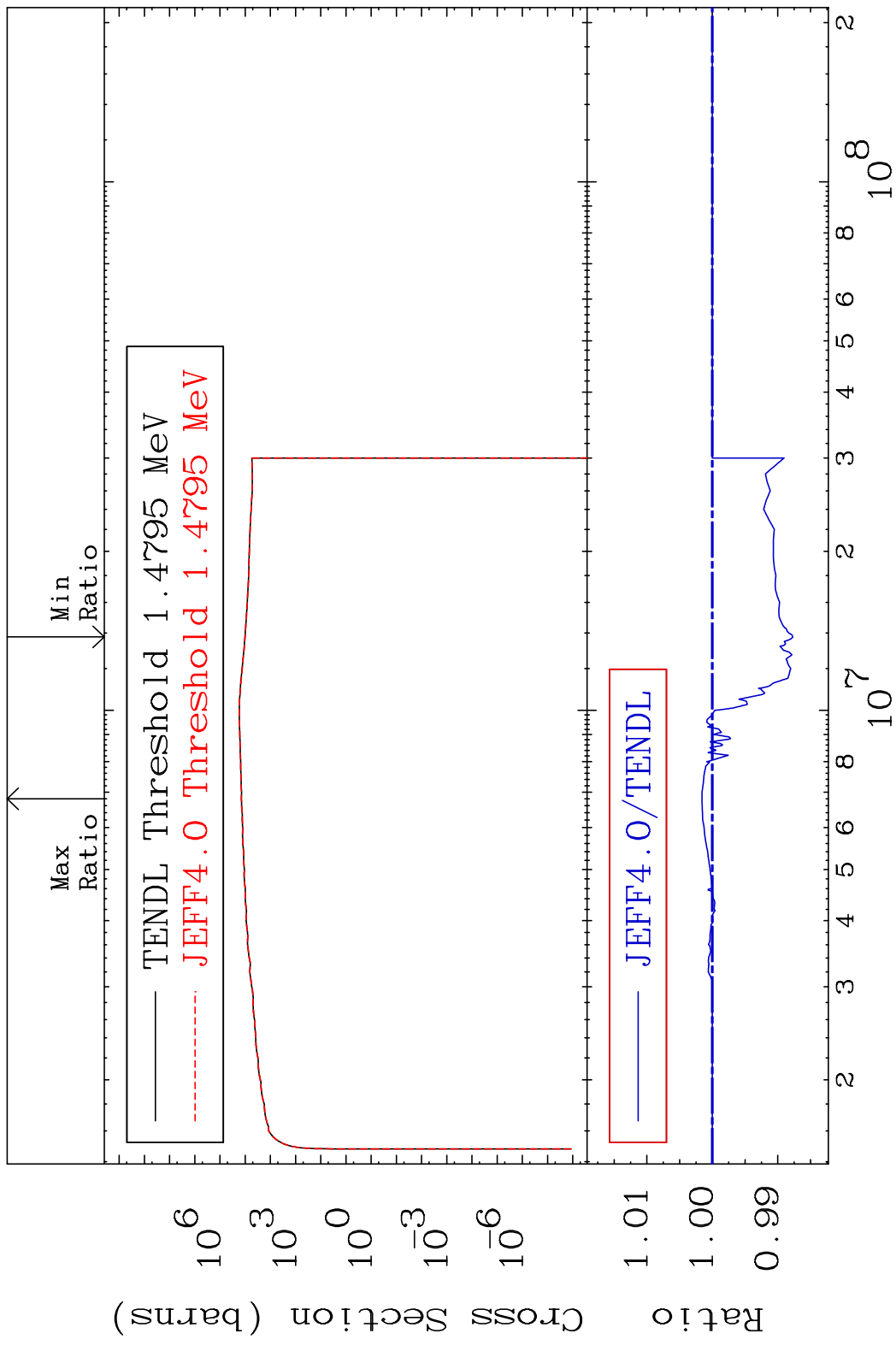


MAT 2825 Dpa disappearance (mt102 -120) 28-Ni-58
 Cross Section -100.0 To 9999. %

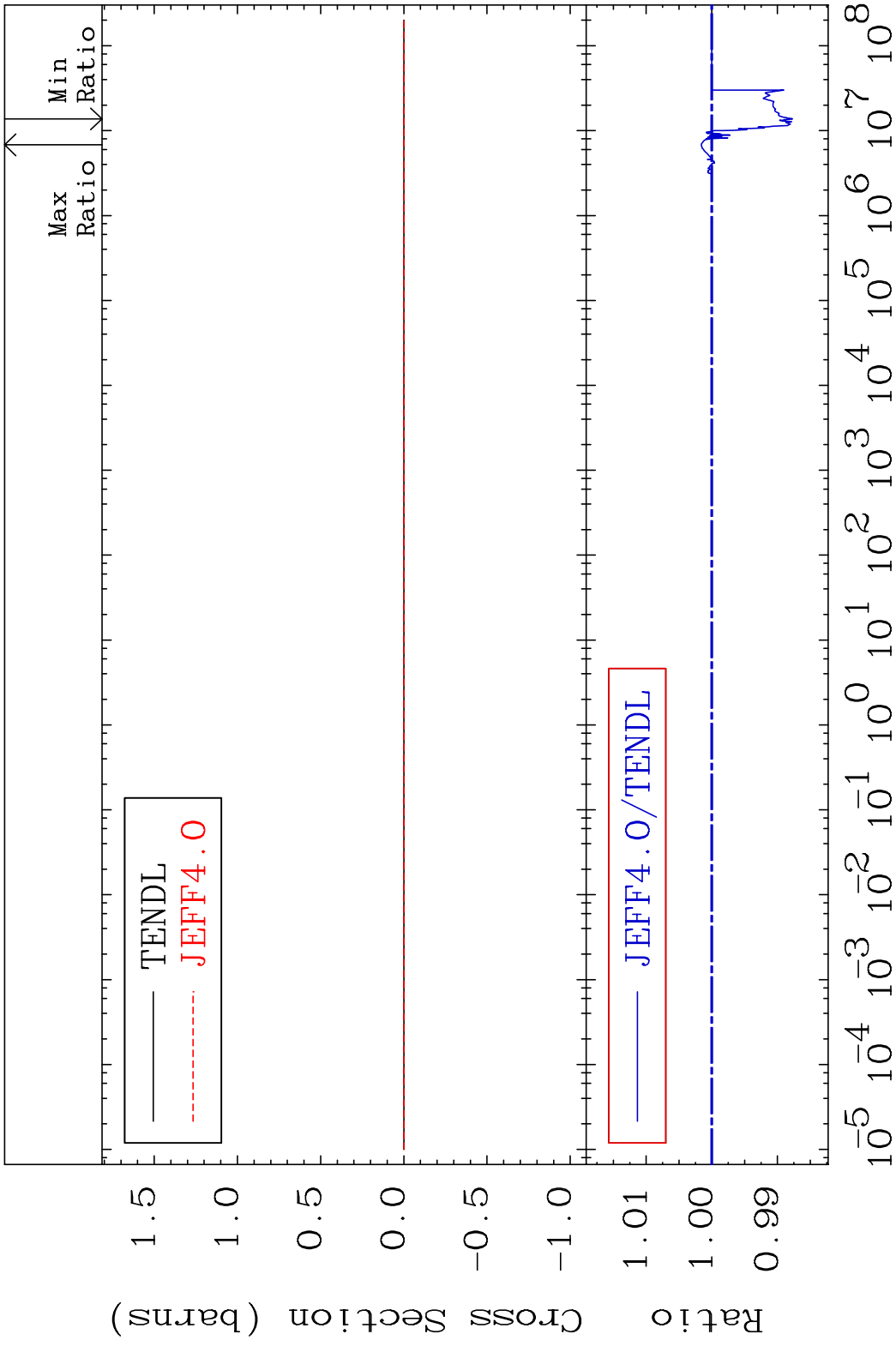


67 Incident Energy (eV) 28-Ni-58

MAT 2825 Kerma inelastic (mt51-91) 28-Ni-58
 Cross Section -1.231 To 0.158 %



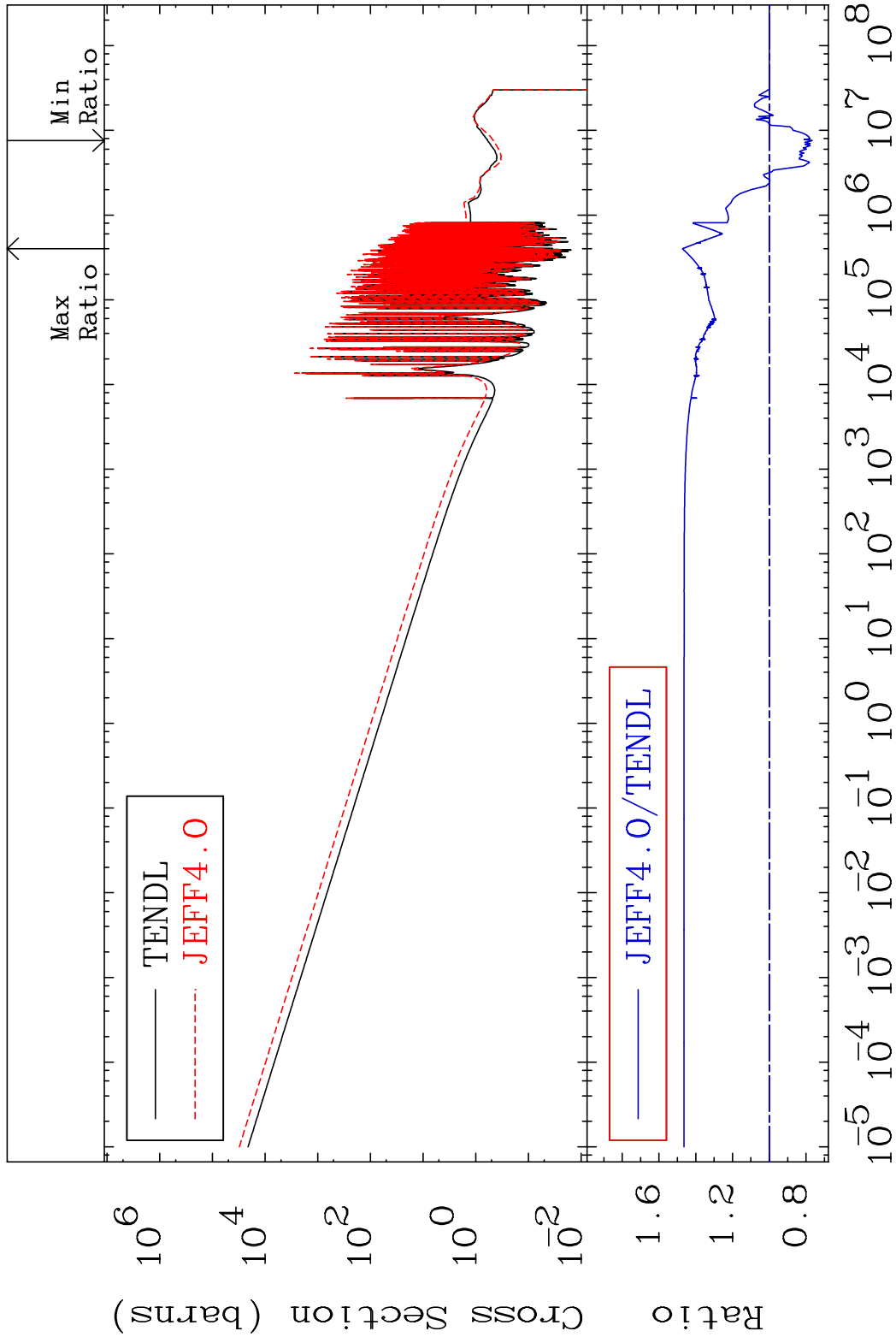
MAT 2825 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-58
 Cross Section -1.231 To 0.158 %



MAT 2825

Kerma capture (mt102) 28-Ni-58

Cross Section -23.54 To 47.29 %

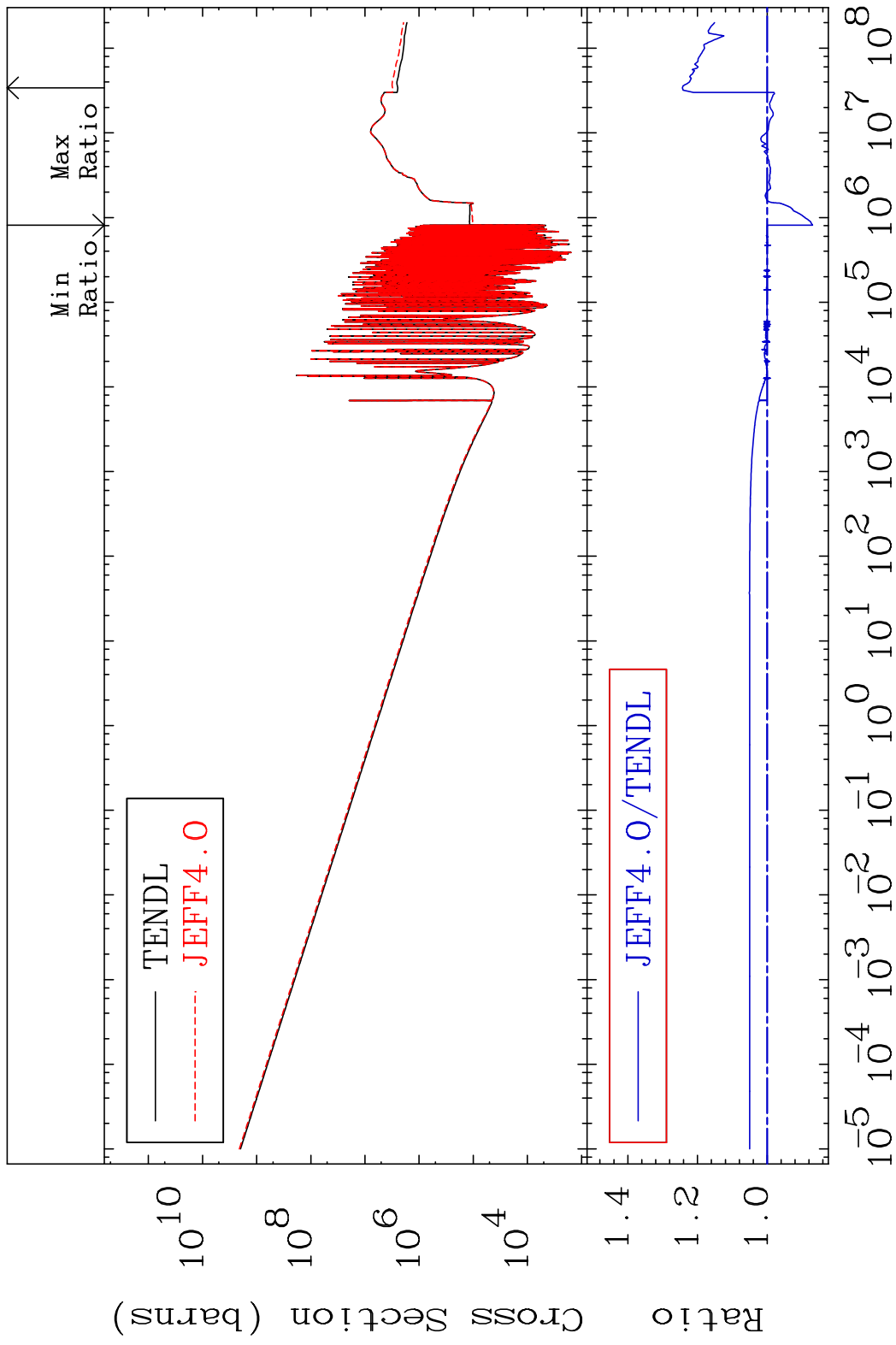


70

Incident Energy (eV)

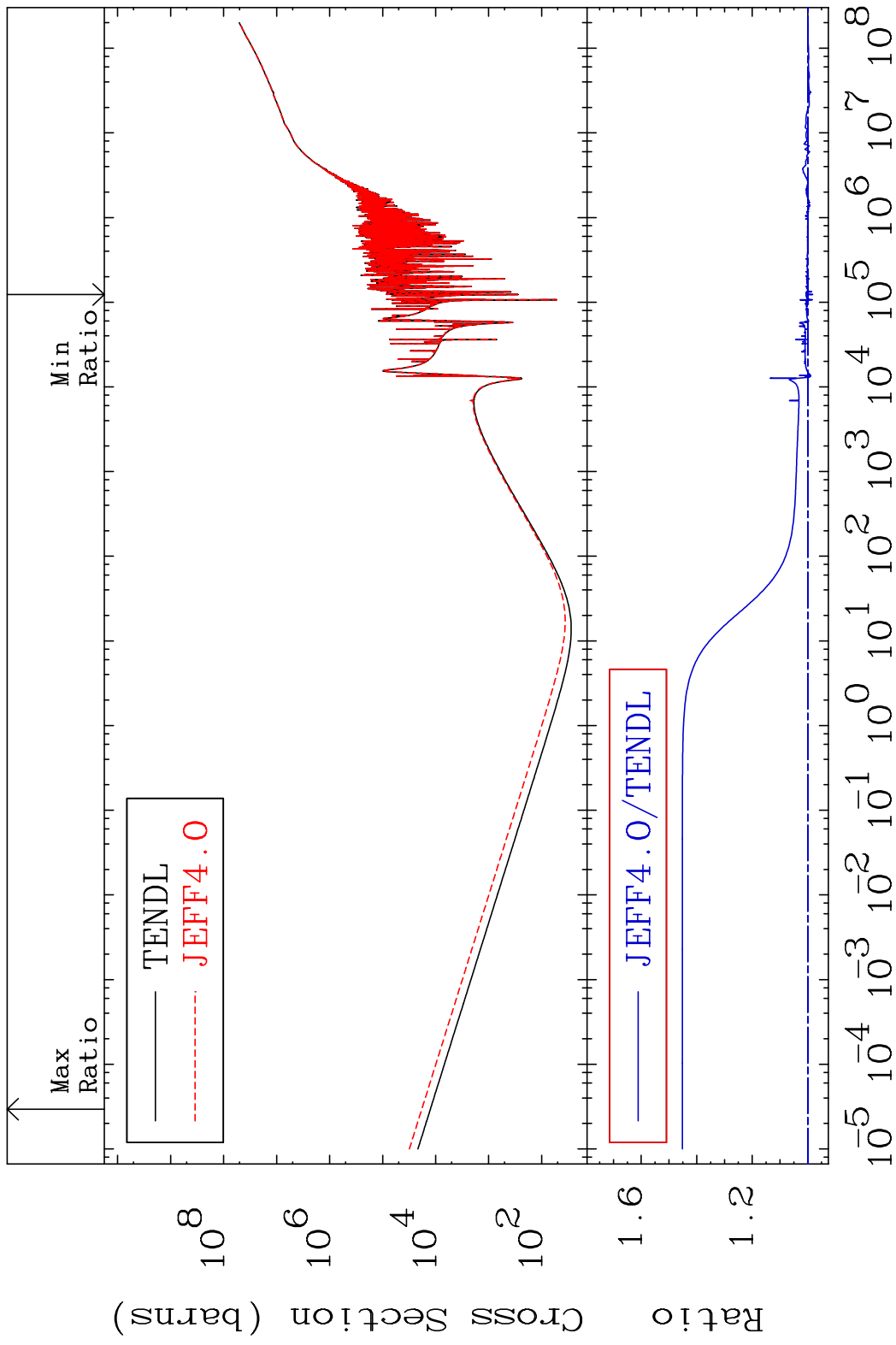
28-Ni-58

MAT 2825 Total photon (eV-barns) 28-Ni-58
 Cross Section -13.02 To 24.35 %



71 Incident Energy (eV) 28-Ni-58

MAT 2825 Total kinematic kerma (high limit) 28-Ni-58
Cross Section -1.738 To 45.18 %

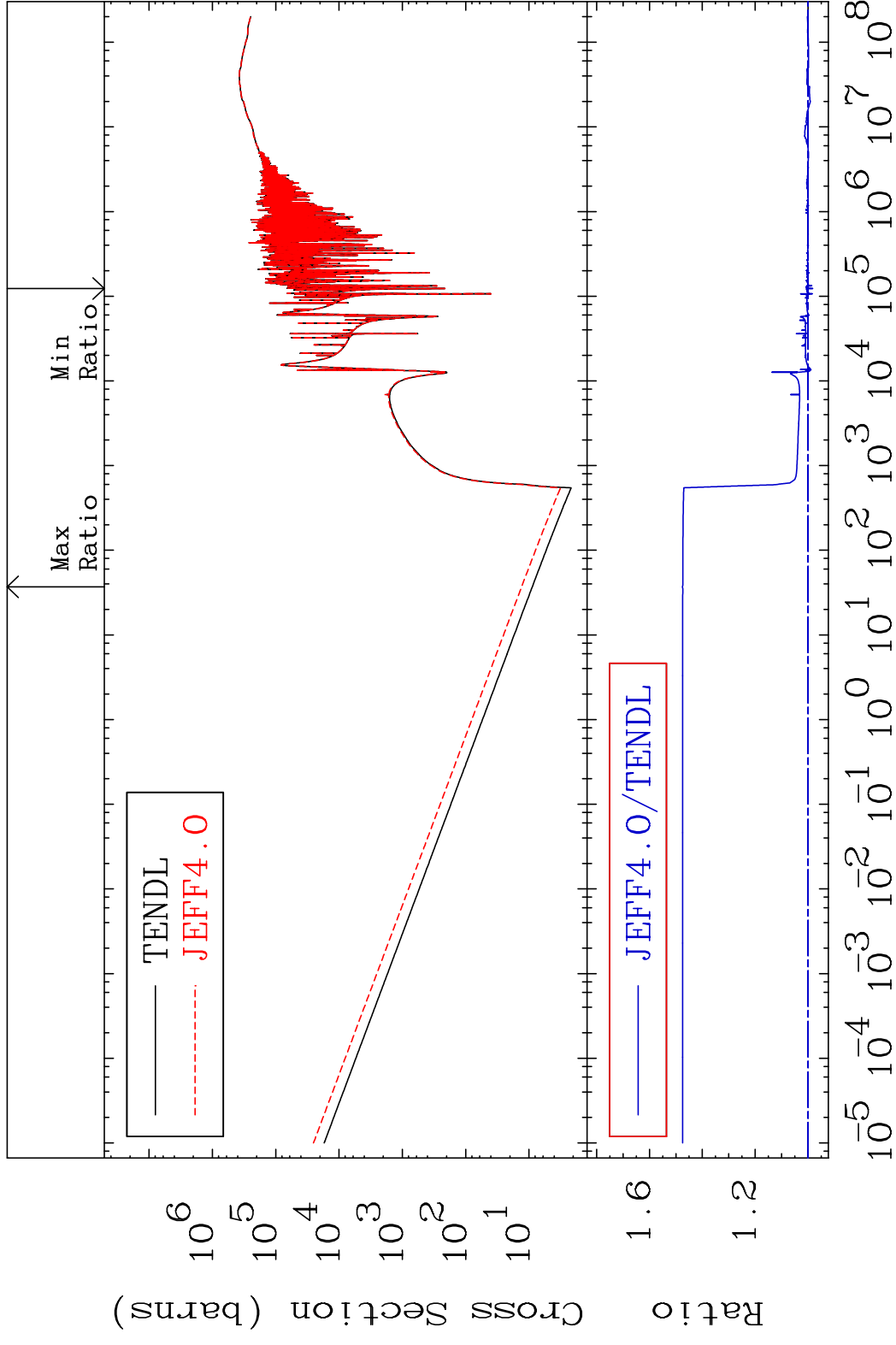


MAT 2825

Dpa total (eV-barns)

28-Ni-58

Cross Section -1.732 To 47.56 %



73

Incident Energy (eV)

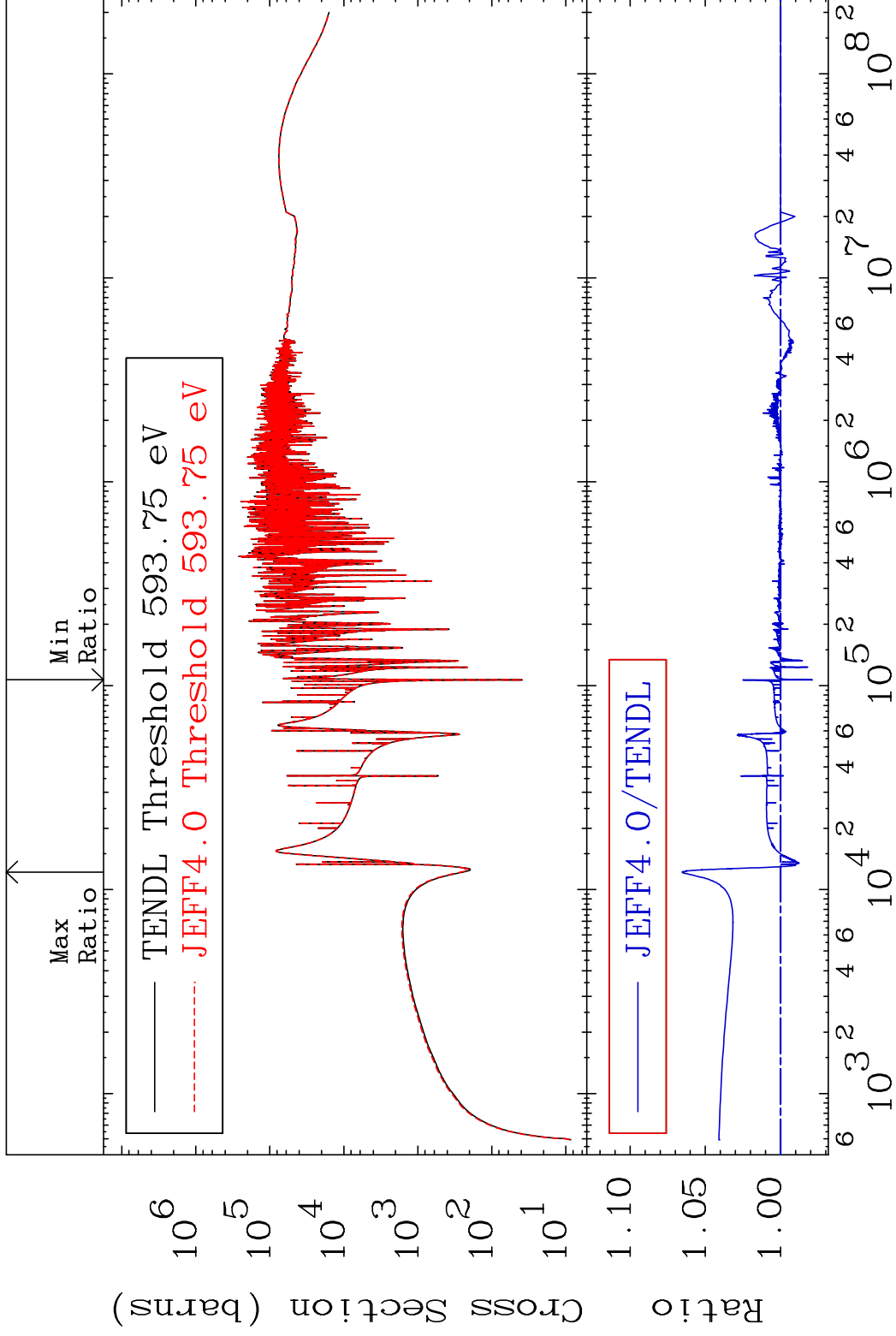
28-Ni-58

MAT 2825

Dpa elastic (mt2)

28-Ni-58

Cross Section -2.123 To 6.541 %

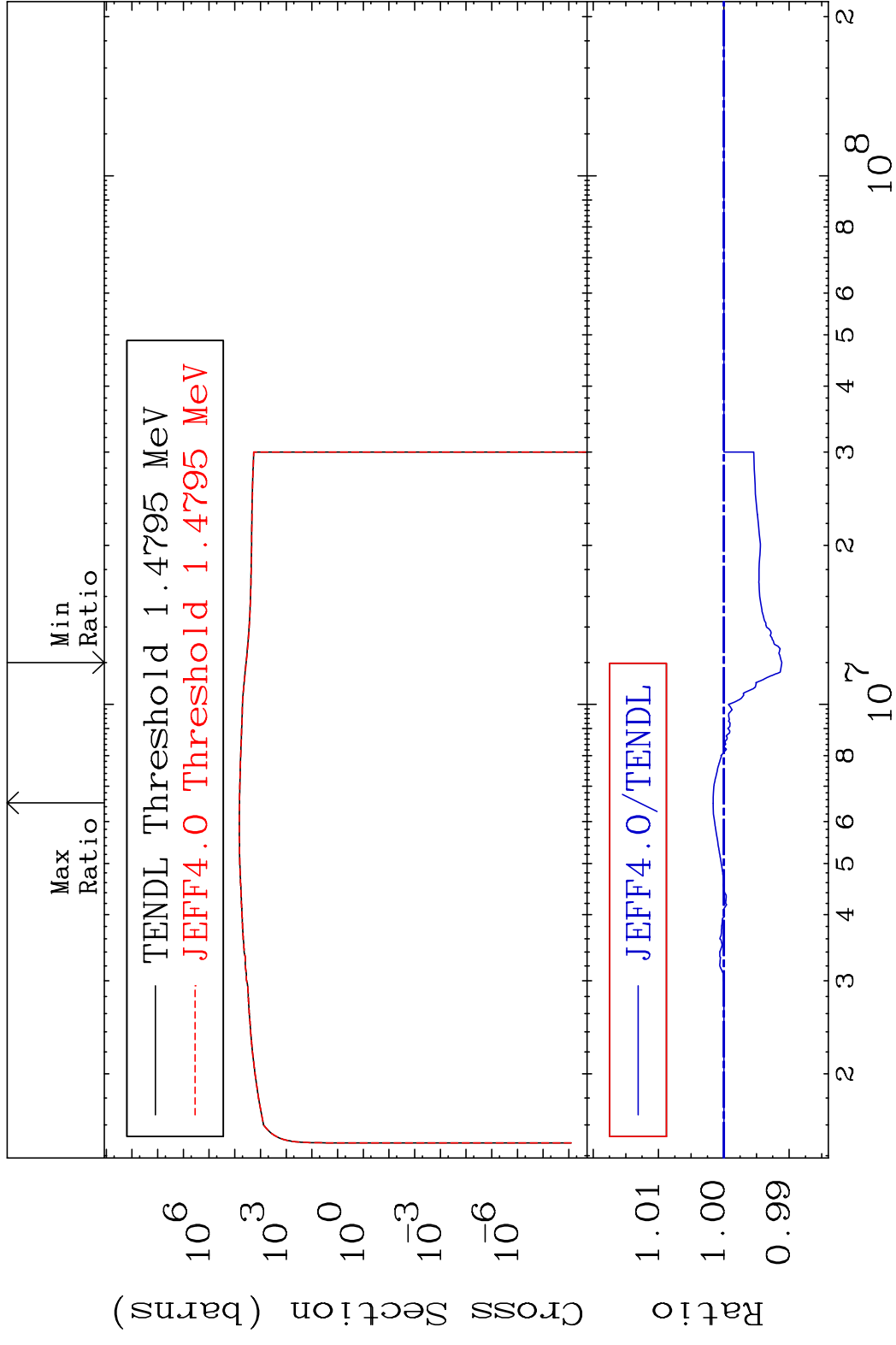


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Incident Energy (eV)

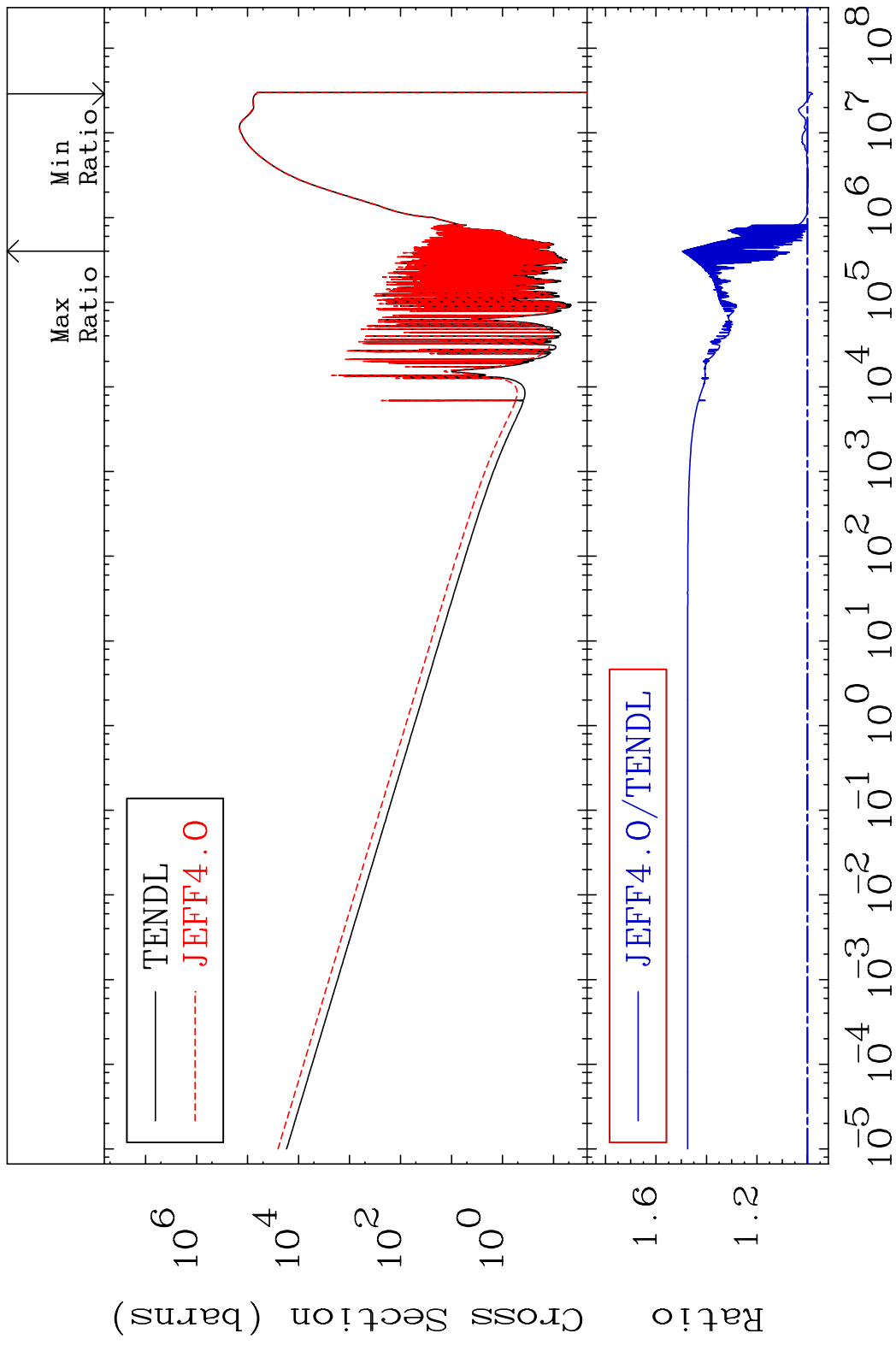
28-Ni-58

MAT 2825 Dpa inelastic (mt51-91) 28-Ni-58
 Cross Section -0.8887 To 0.163 %



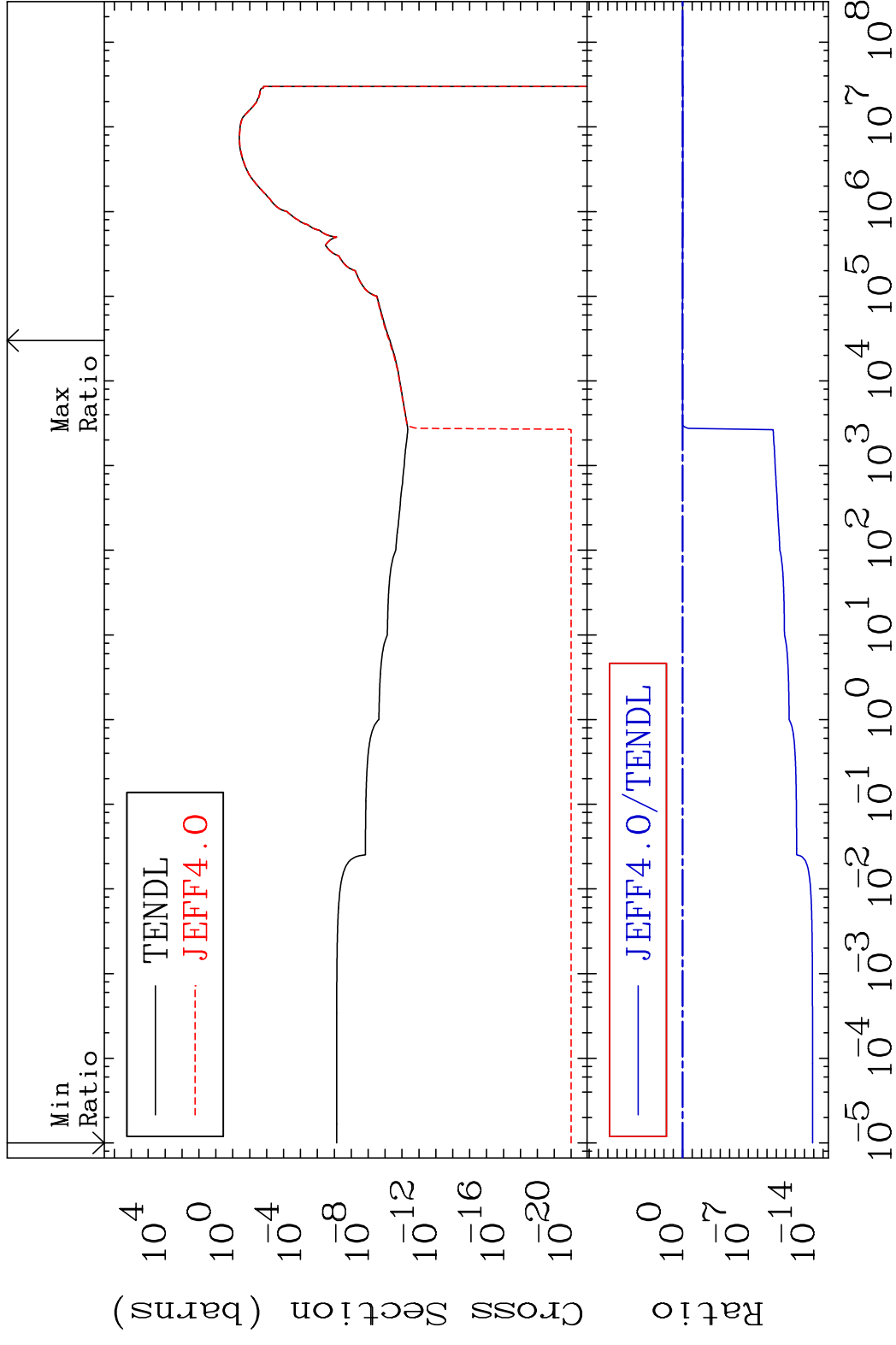
75 Incident Energy (eV) 28-Ni-58

MAT 2825 Dpa disappearance (mt102 -120) 28-Ni-58
 Cross Section -2.016 To 49.55 %

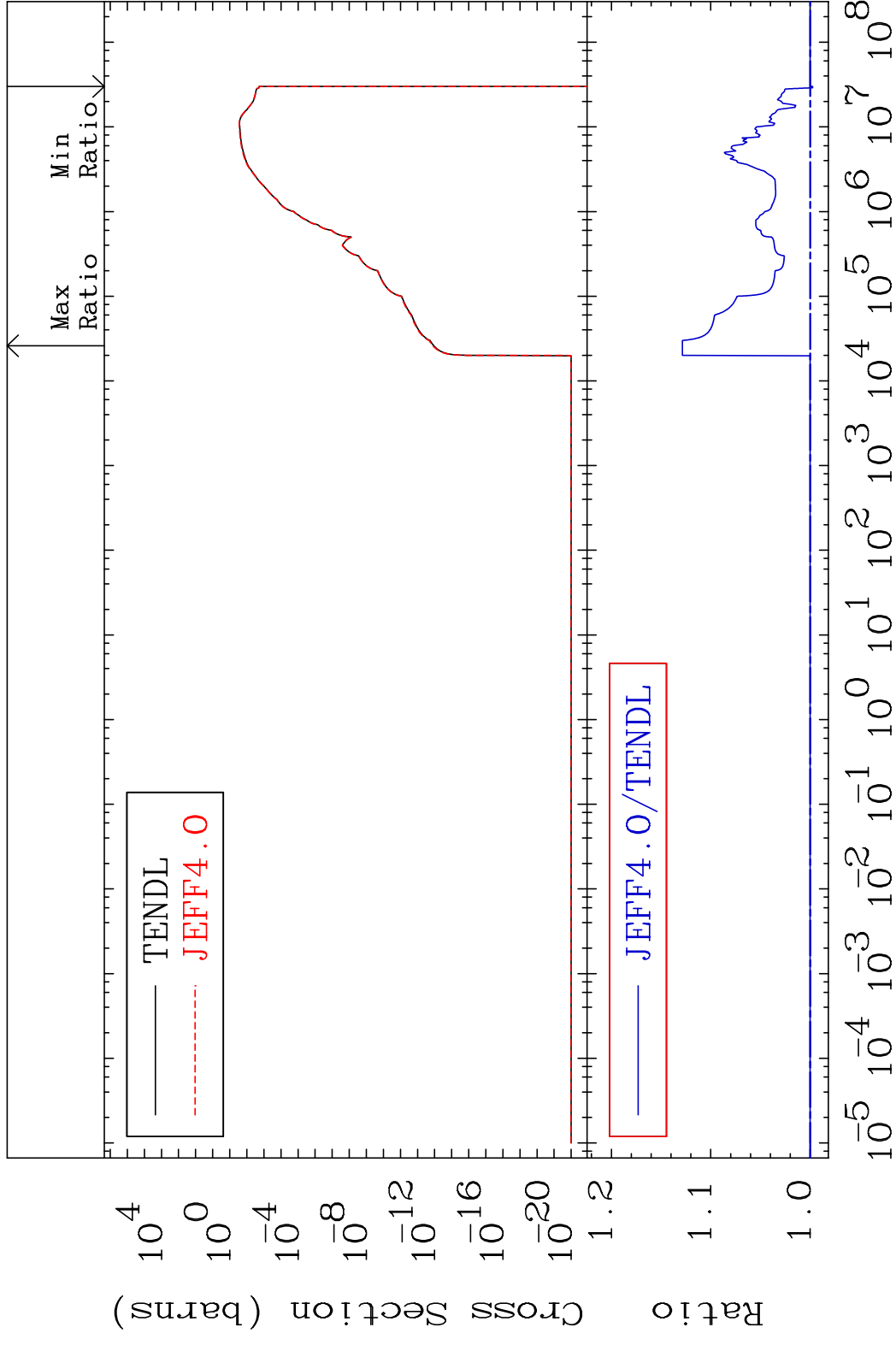


76 Incident Energy (eV) 28-Ni-58

MAT 2825 (n,p):27-Co-58g 28-Ni-58
 Radionuclide Production Cross Section Ratio 9.665 %



MAT 2825 (n,p):27-Co-58m1 28-Ni-58
 Radionuclide Production Cross Section to 12.86 %



78 Incident Energy (eV) 28-Ni-58