

Program Complot
(Version 2021-1)

by

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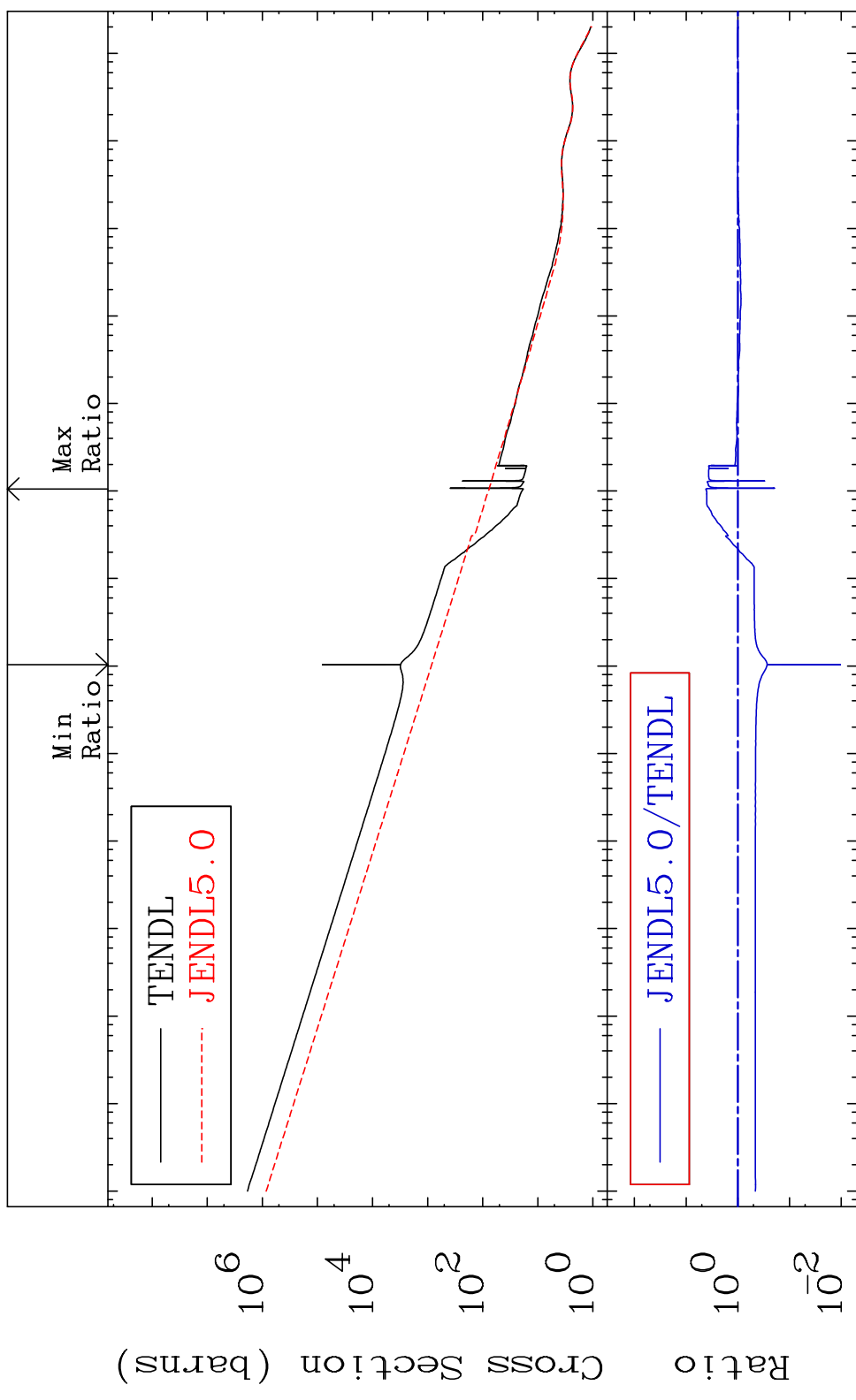
Press Mouse Button to Start

MAT 2722

Total

27-Co-58

Cross Section -98.96 To 317.7 %



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

1

Incident Energy (eV)

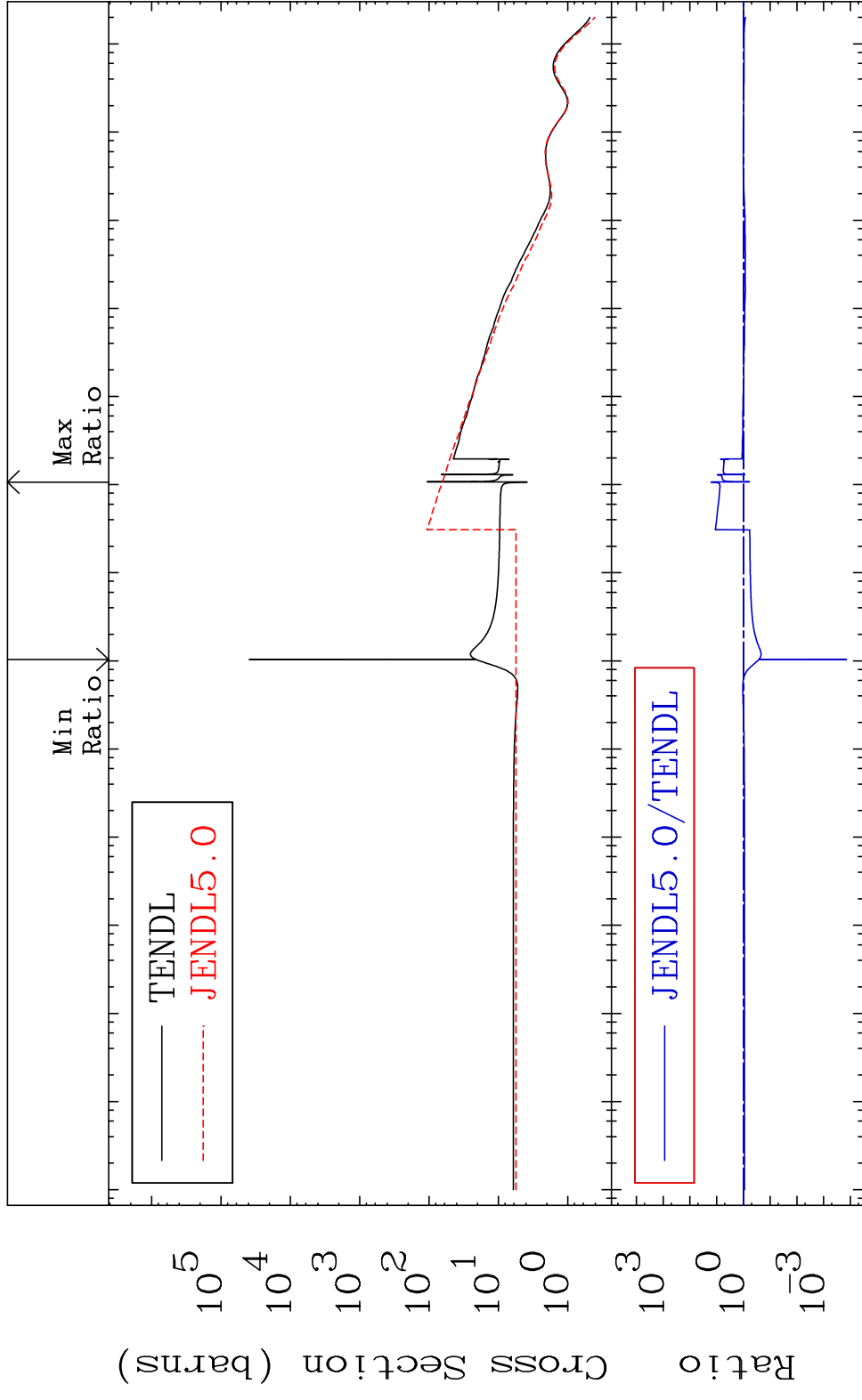
27-Co-58

MAT 2722

Elastic

27-Co-58

Cross Section -99.99 To 1575. %

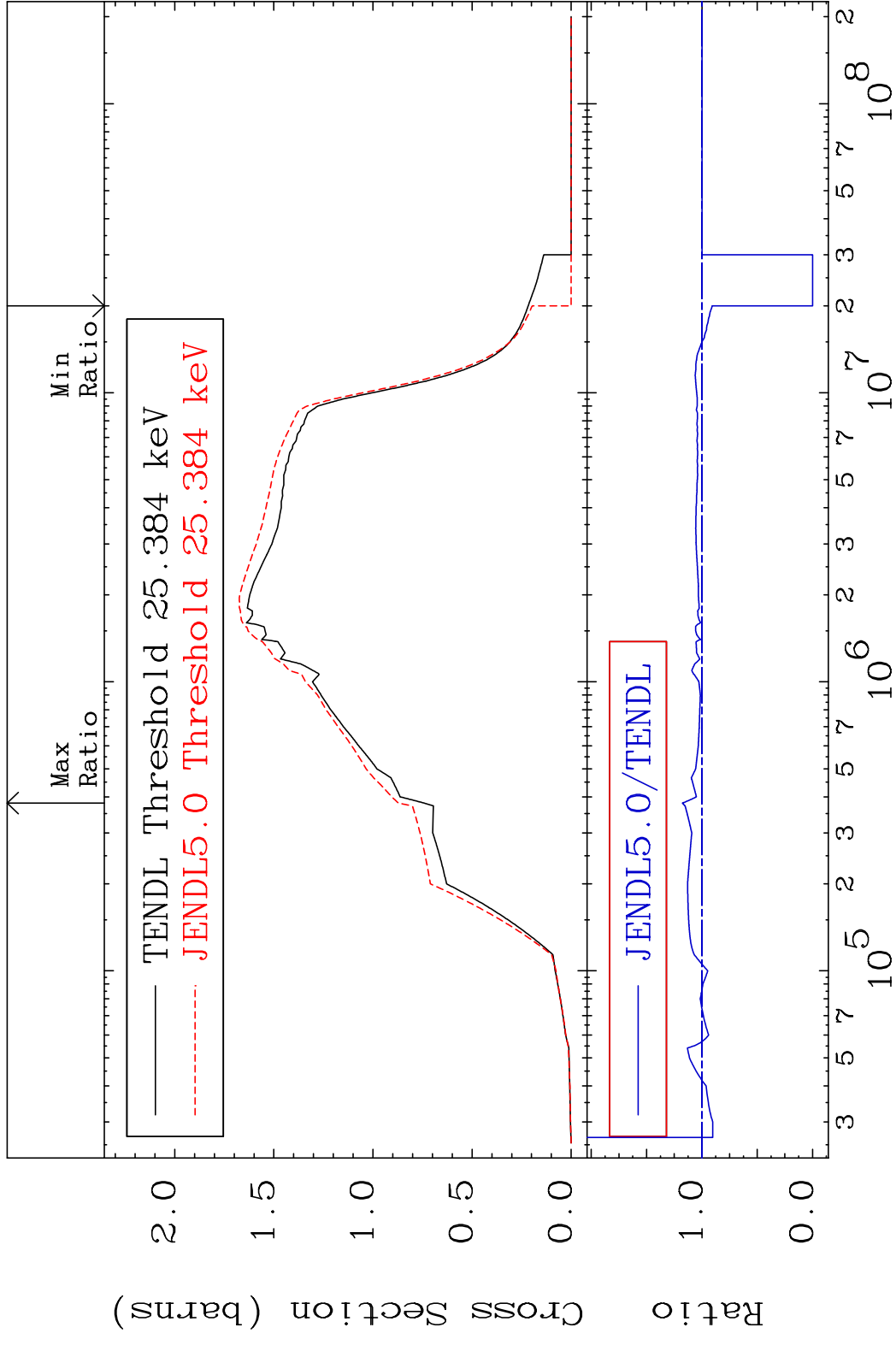


MAT 2722

Inelastic

27-Co-58

Cross Section -100.0 To 17.66 %



3

Incident Energy (eV)

27-Co-58

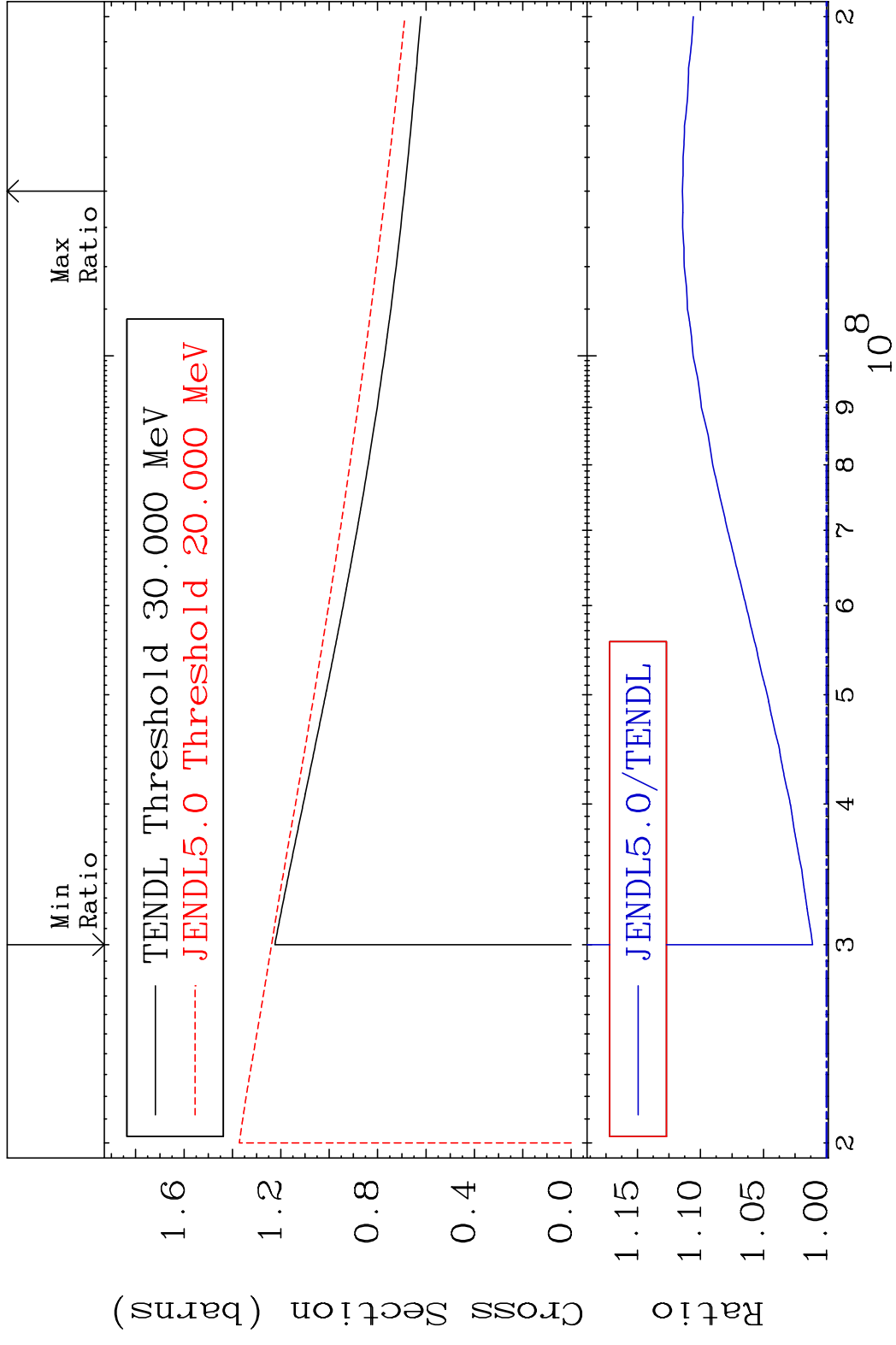
MAT 2722

(n, remainder)

27-Co-58

Cross Section 1.105

To 11.44 %



4

Incident Energy (eV)

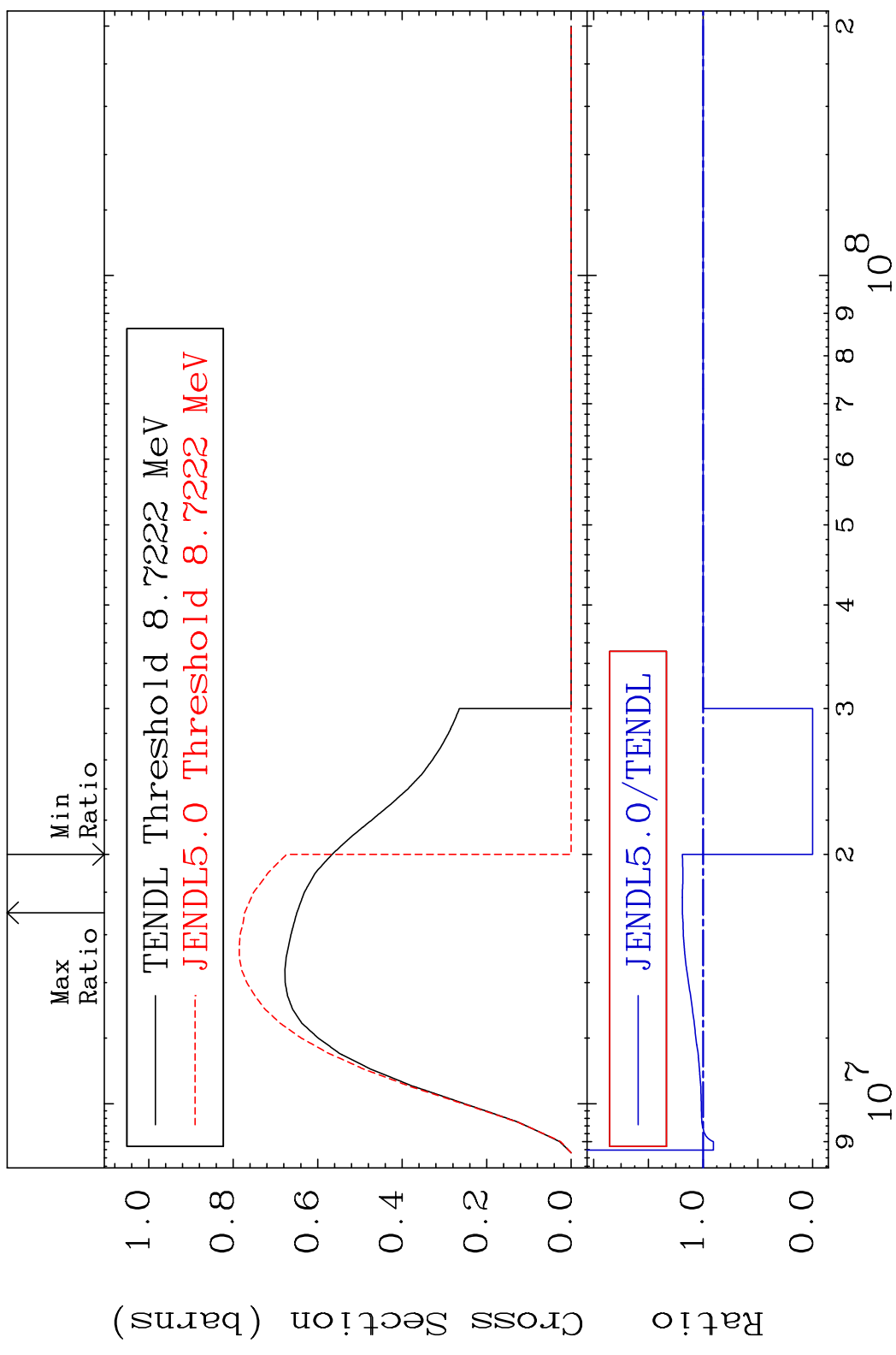
27-Co-58

MAT 2722

(n,2n)

27-Co-58

Cross Section -100.0 To 19.02 %



5

Incident Energy (eV)

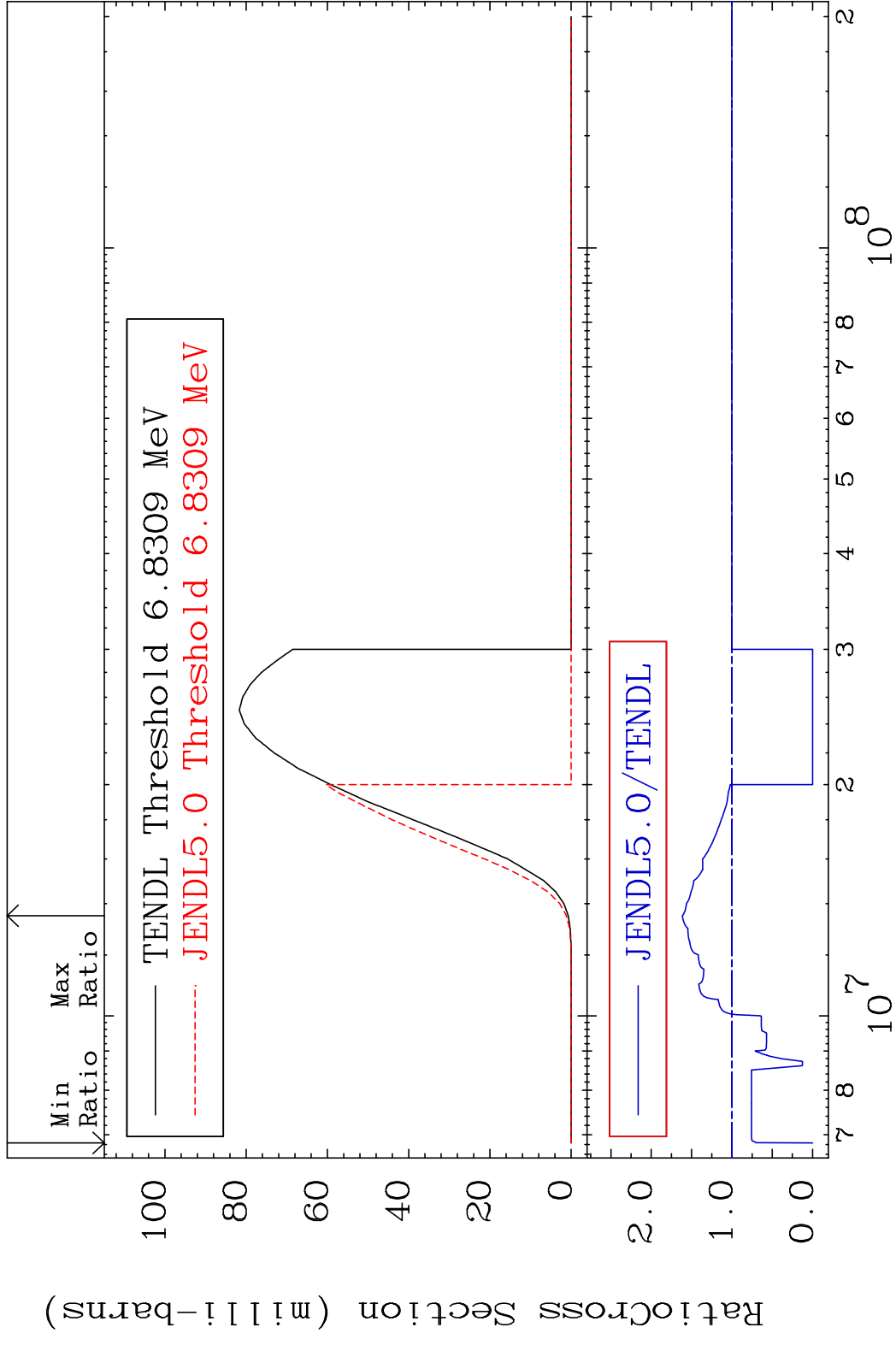
27-Co-58

MAT 2722

(n, n') α

27-Co-58

Cross Section -100.0 To 61.43 %

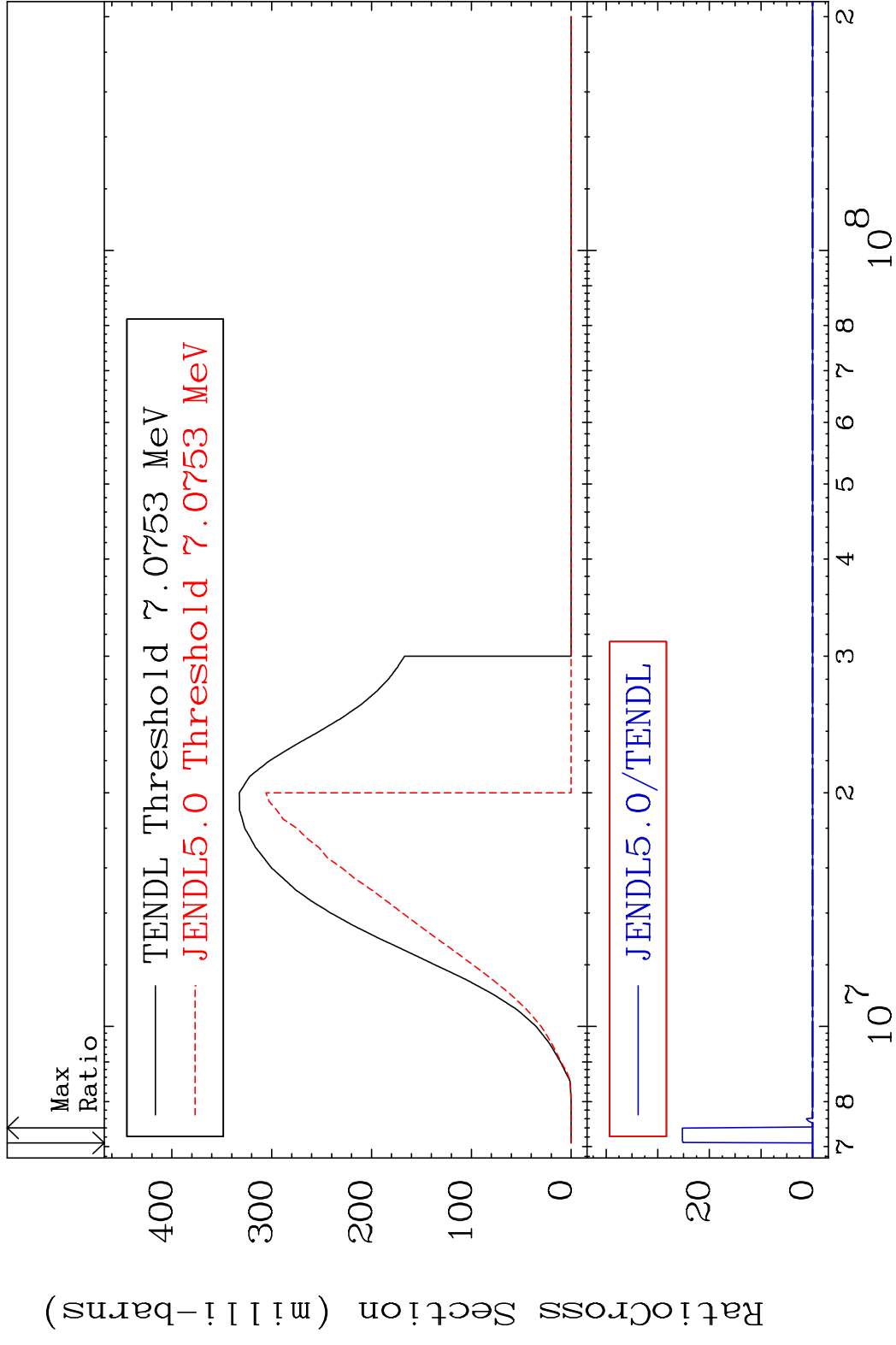


6

Incident Energy (eV)

27-Co-58

MAT 2722 (n, n') p 27-Co-58
 Cross Section -100.0 To 9999. %



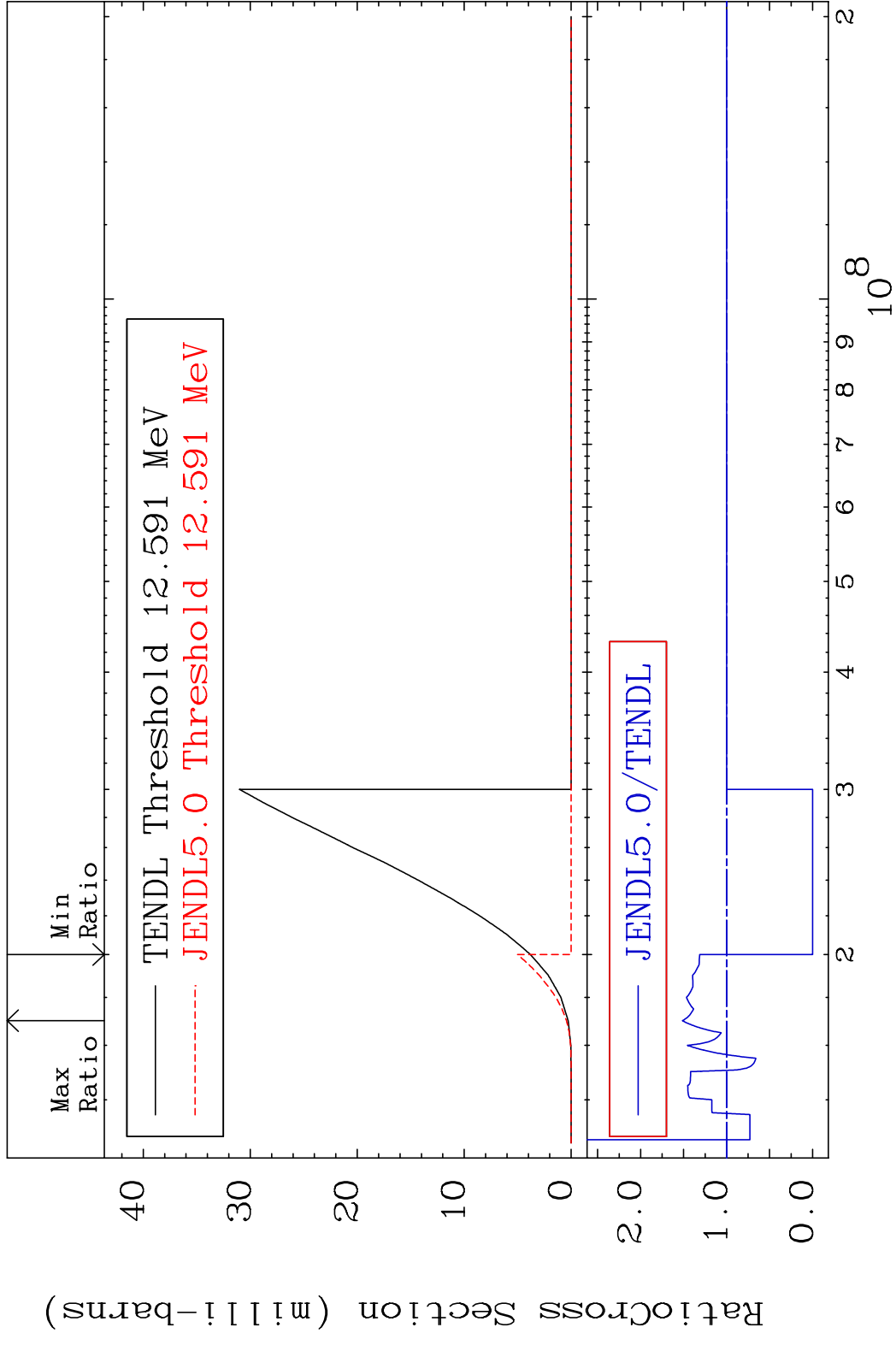
7 Incident Energy (eV) 27-Co-58

MAT 2722

(n, n') d

27-Co-58

Cross Section -100.0 To 51.45 %

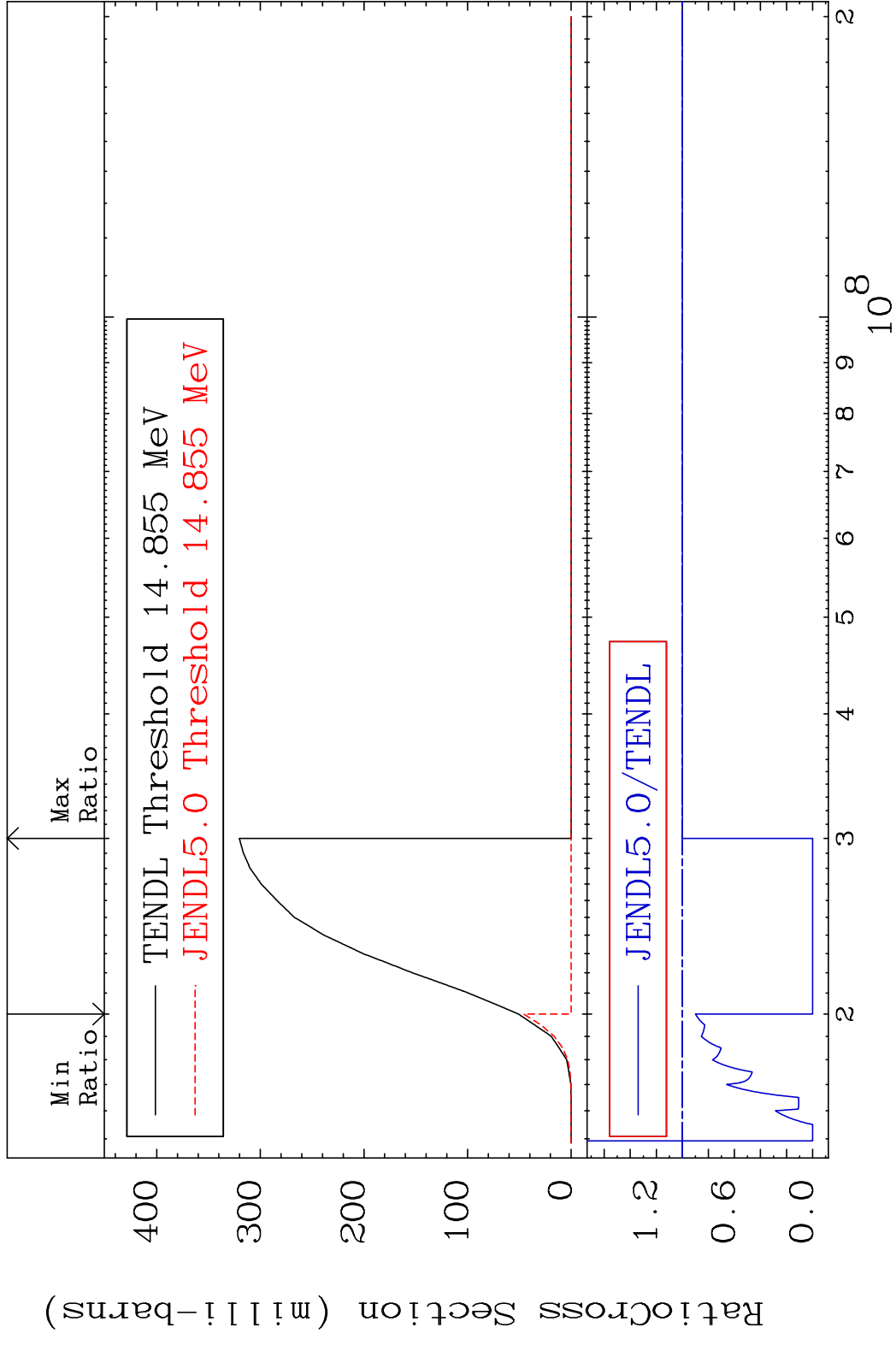


MAT 2722

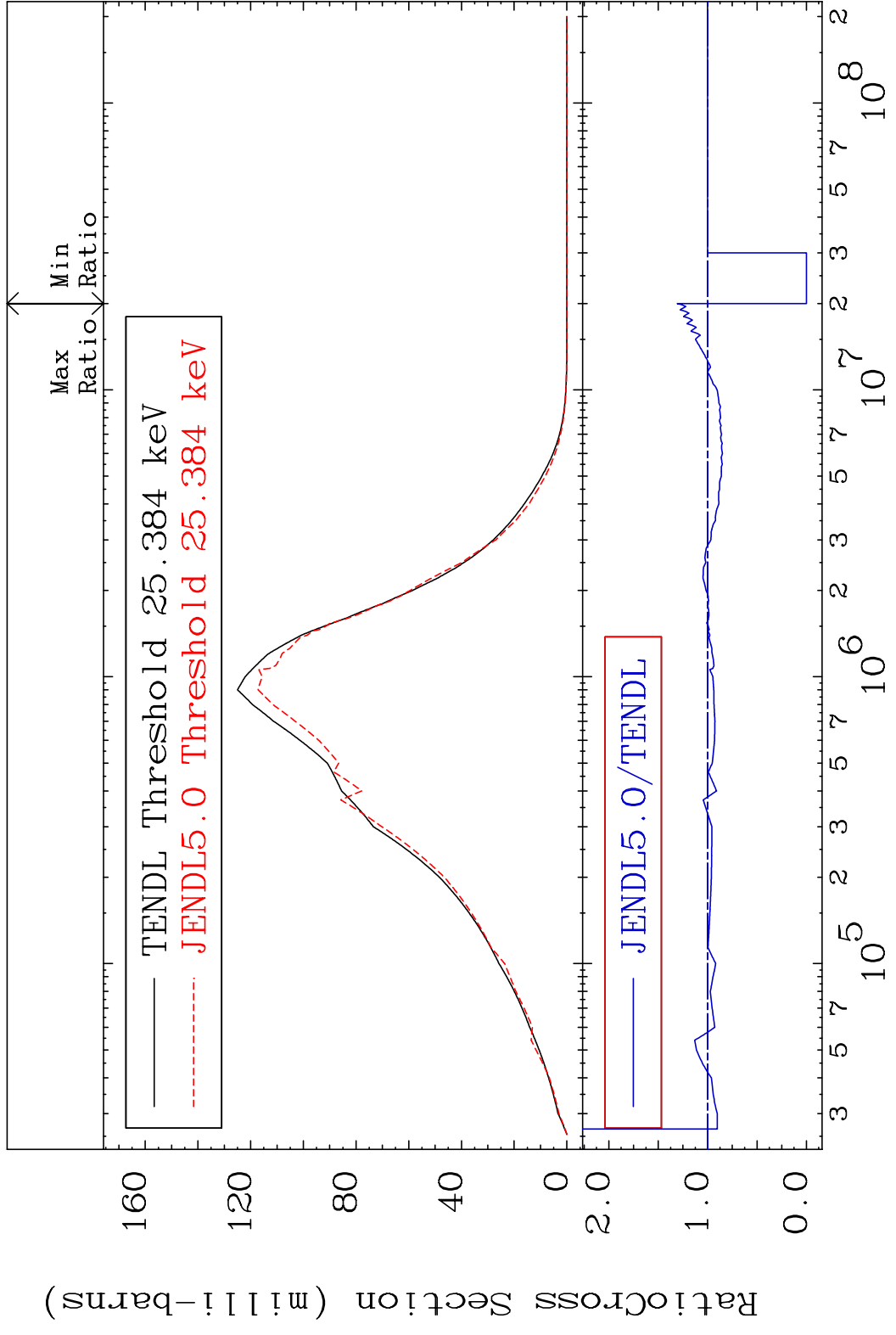
(n,2n) p

27-Co-58

Cross Section -100.0 To 0.000 %

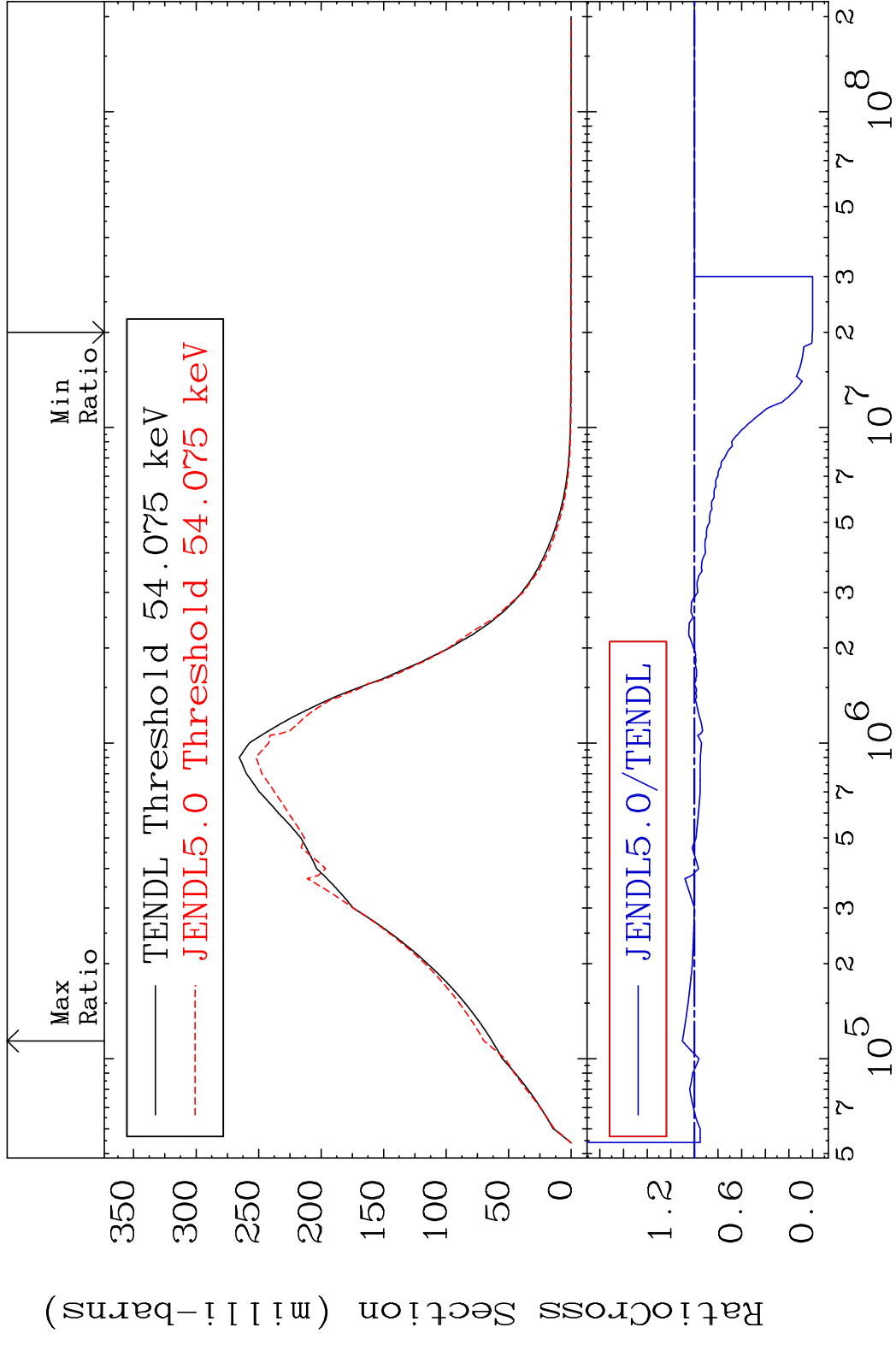


MAT 2722 MT= 51 (n, n') Level 27-Co-58
 Cross Section -100.0 To 30.81 %

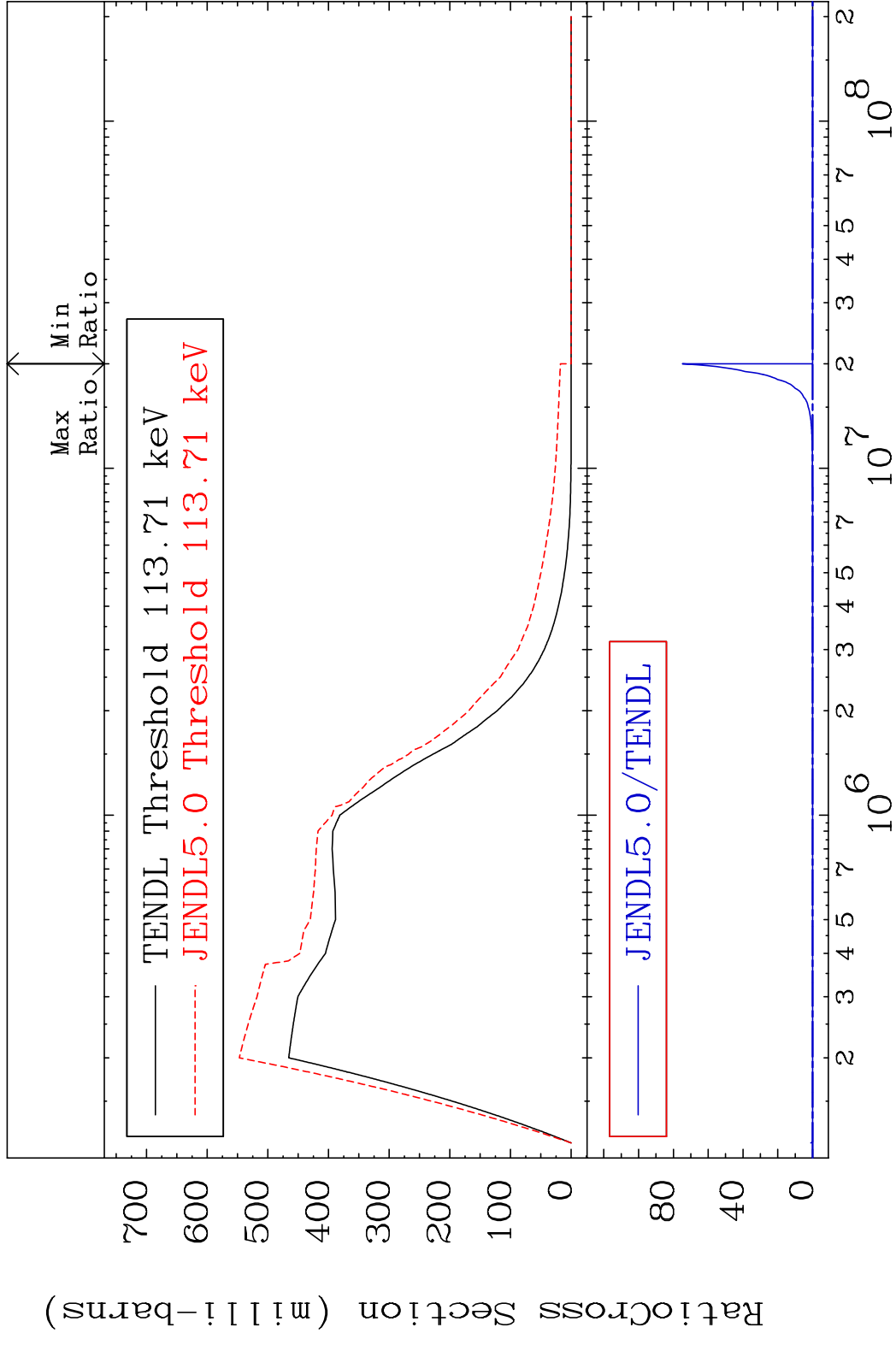


10

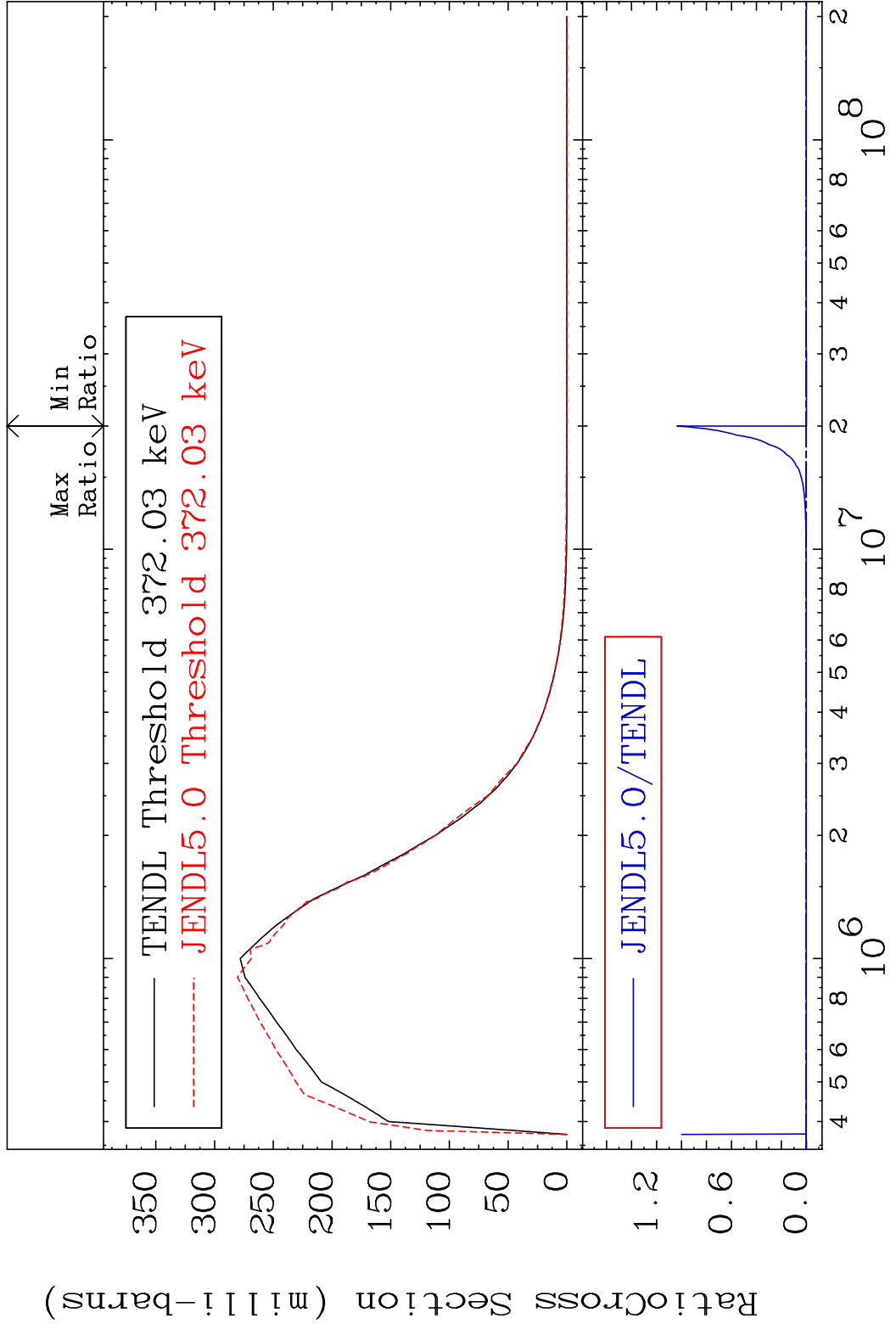
MAT 2722 MT= 52 (n,n') Level 27-Co-58
 Cross Section -100.0 To 10.22 %



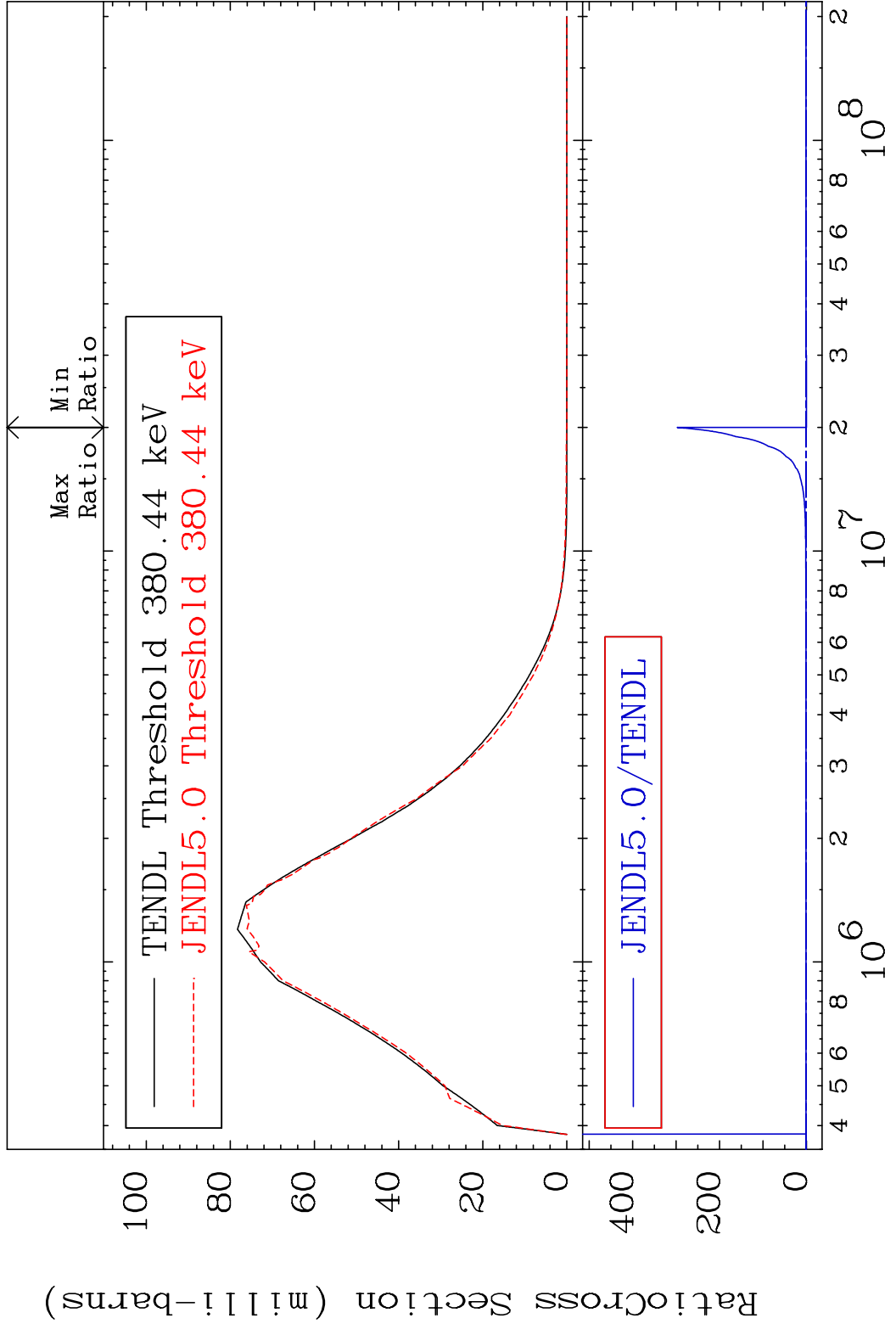
MAT 2722 MT= 53 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



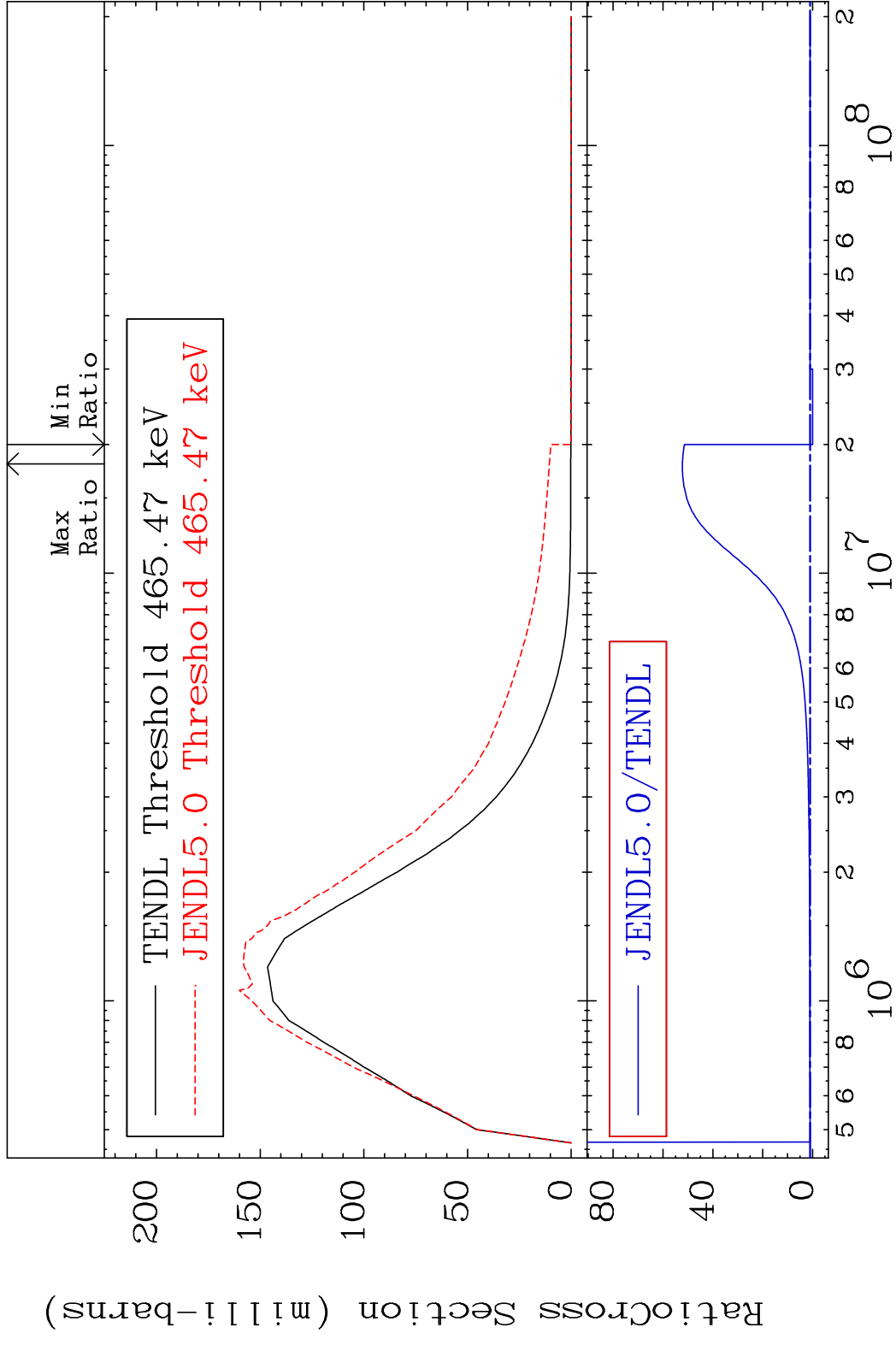
MAT 2722 MT= 54 (n,n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



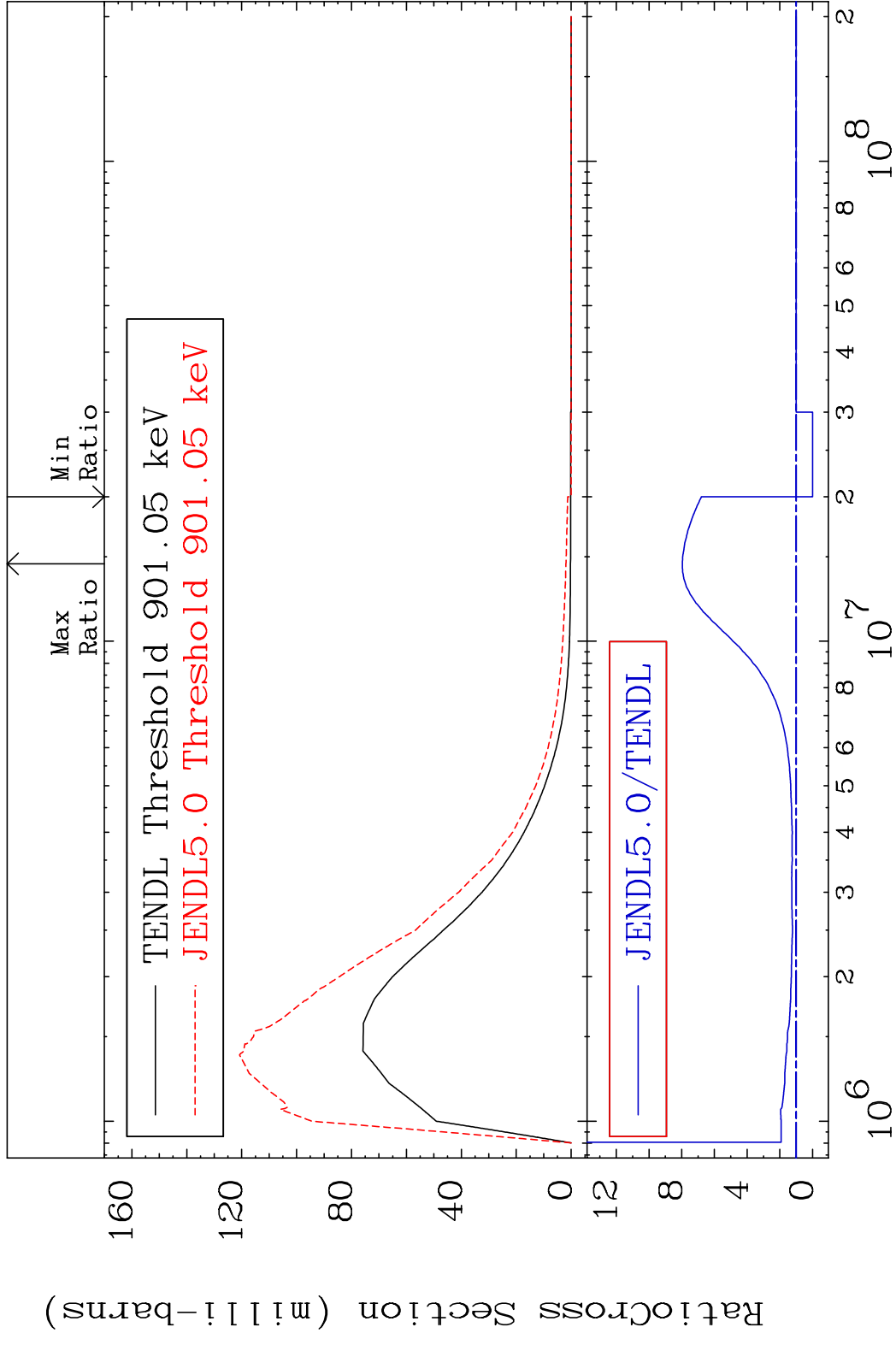
MAT 2722 MT= 55 (n,n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



MAT 2722 MT= 56 (n, n') Level 27-Co-58
 Cross Section -100.0 To 5123. %

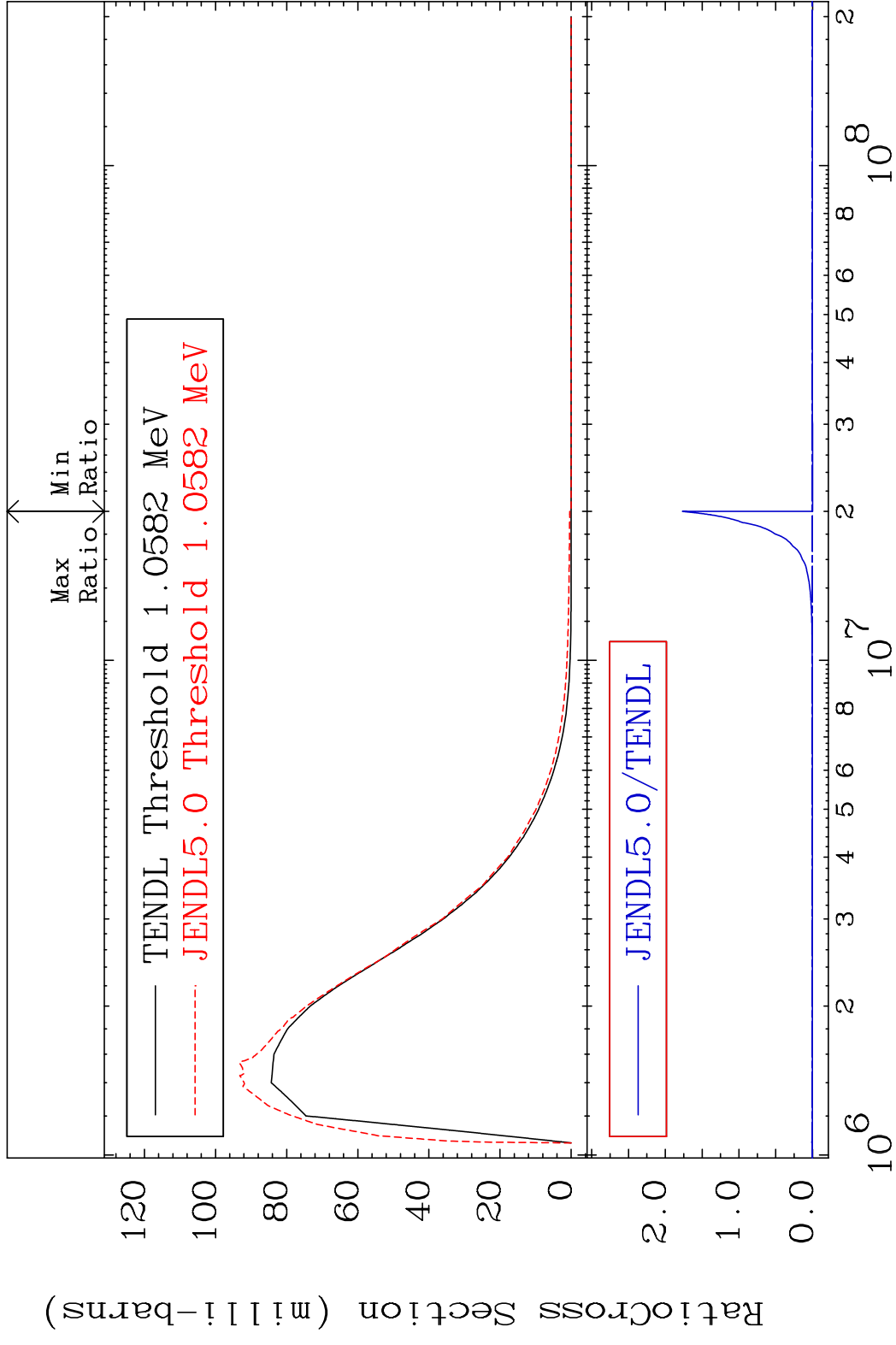


MAT 2722 MT= 57 (n, n') Level 27-Co-58
 Cross Section -100.0 To 696.1 %

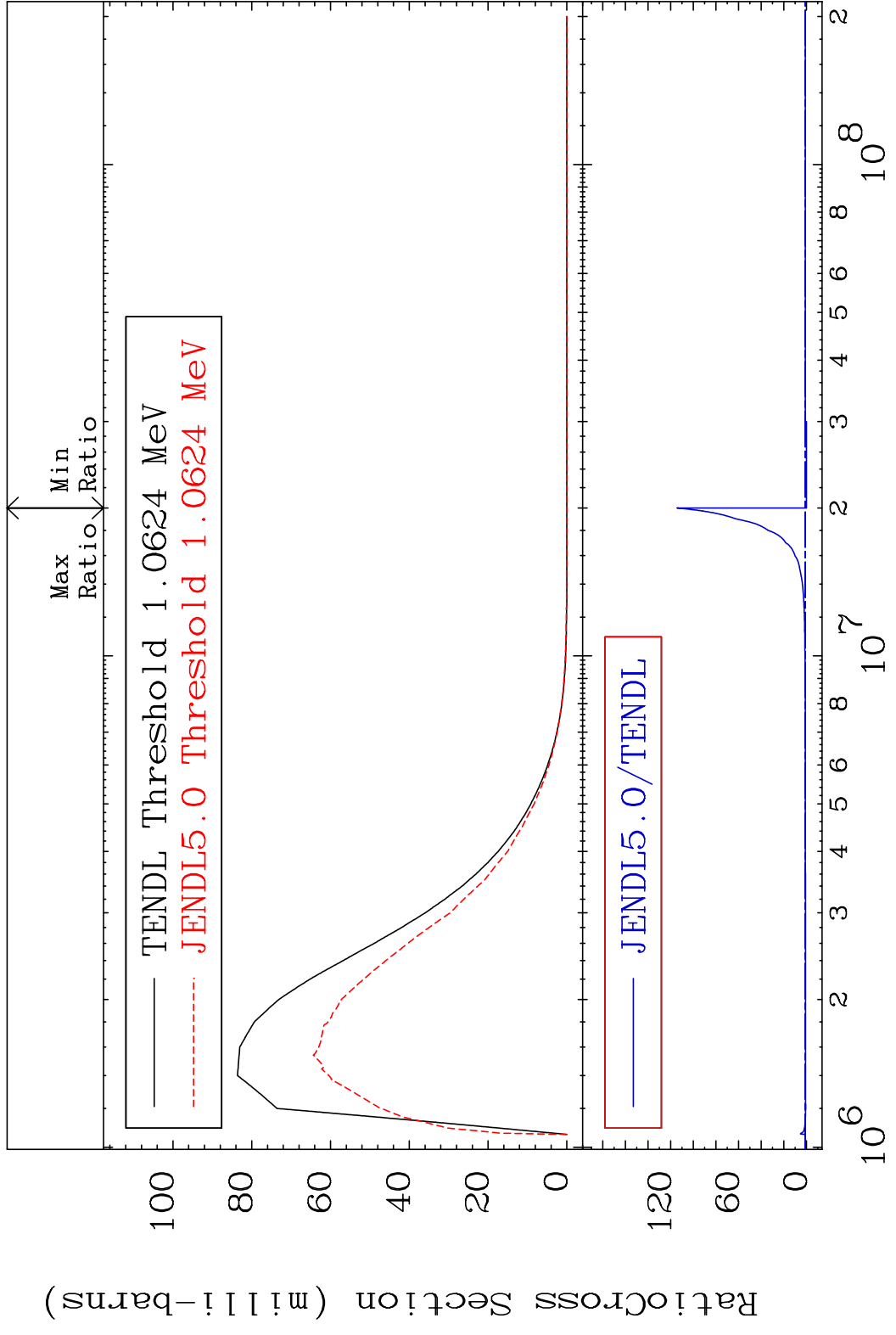


16 27-Co-58

MAT 2722 MT= 58 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %

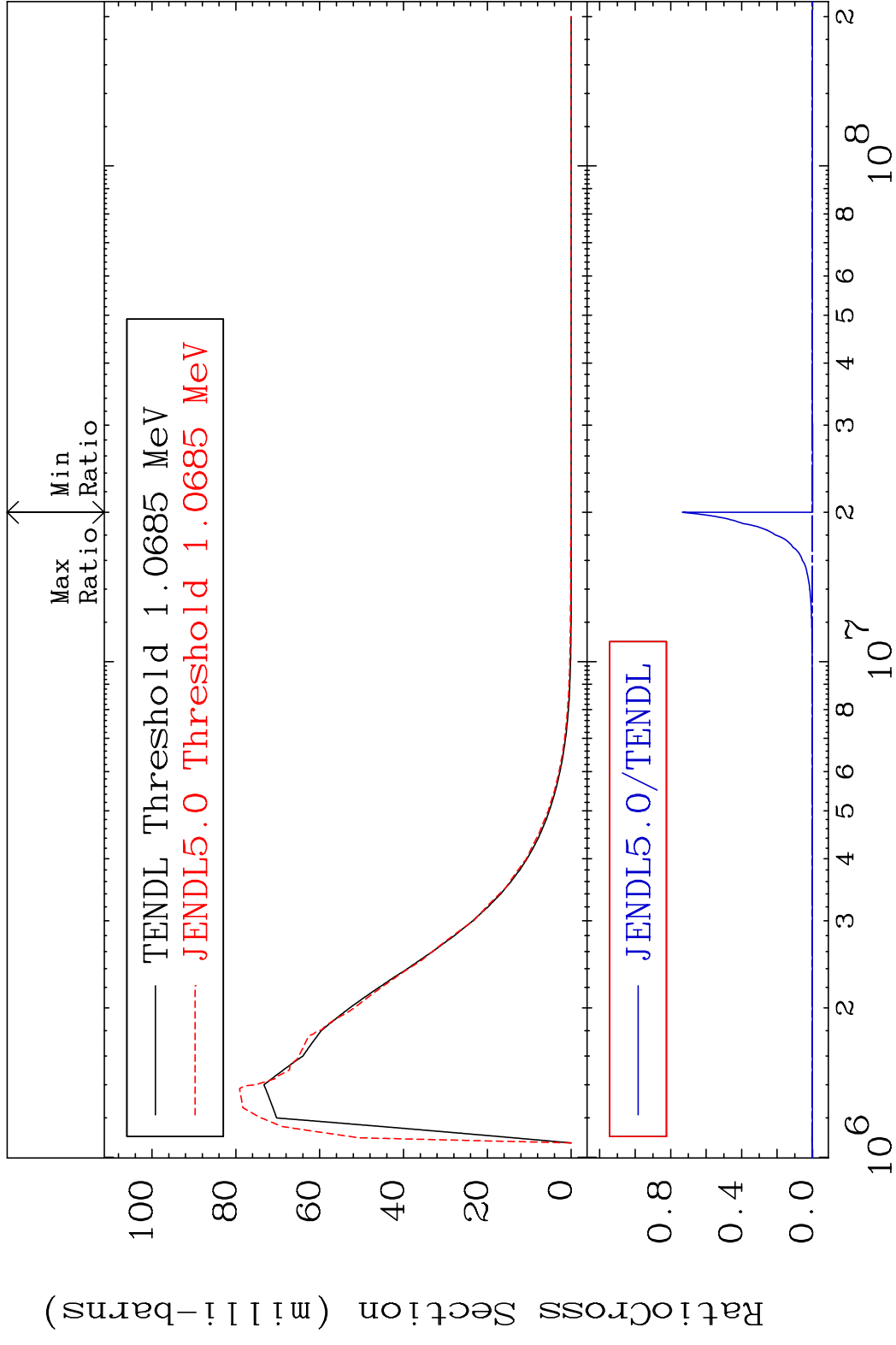


MAT 2722 MT= 59 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



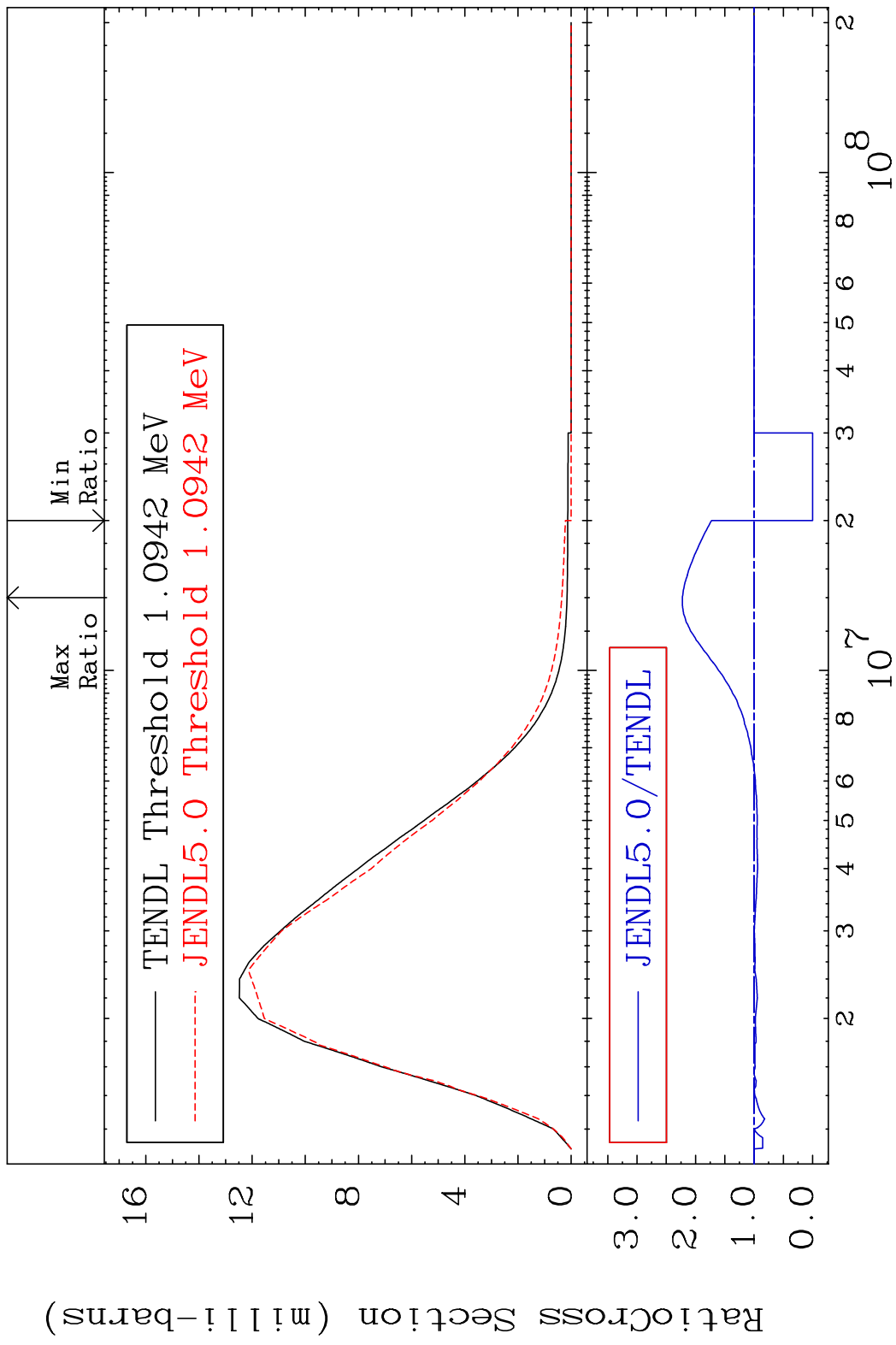
18 Incident Energy (eV) 27-Co-58

MAT 2722 MT= 60 (n, n') Level 27-Co-58
Cross Section -100.0 To 9999. %

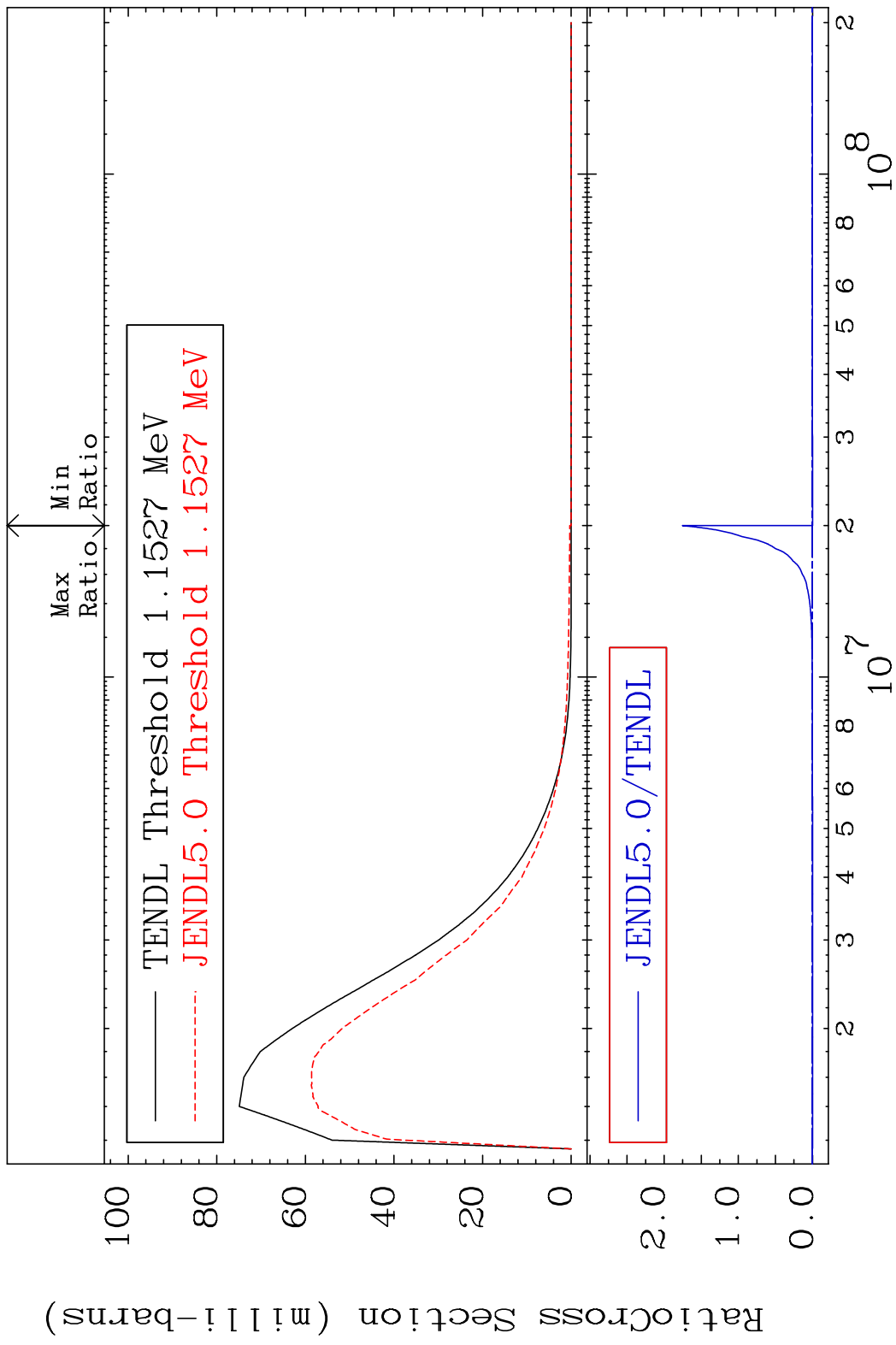


19 Incident Energy (eV) 27-Co-58

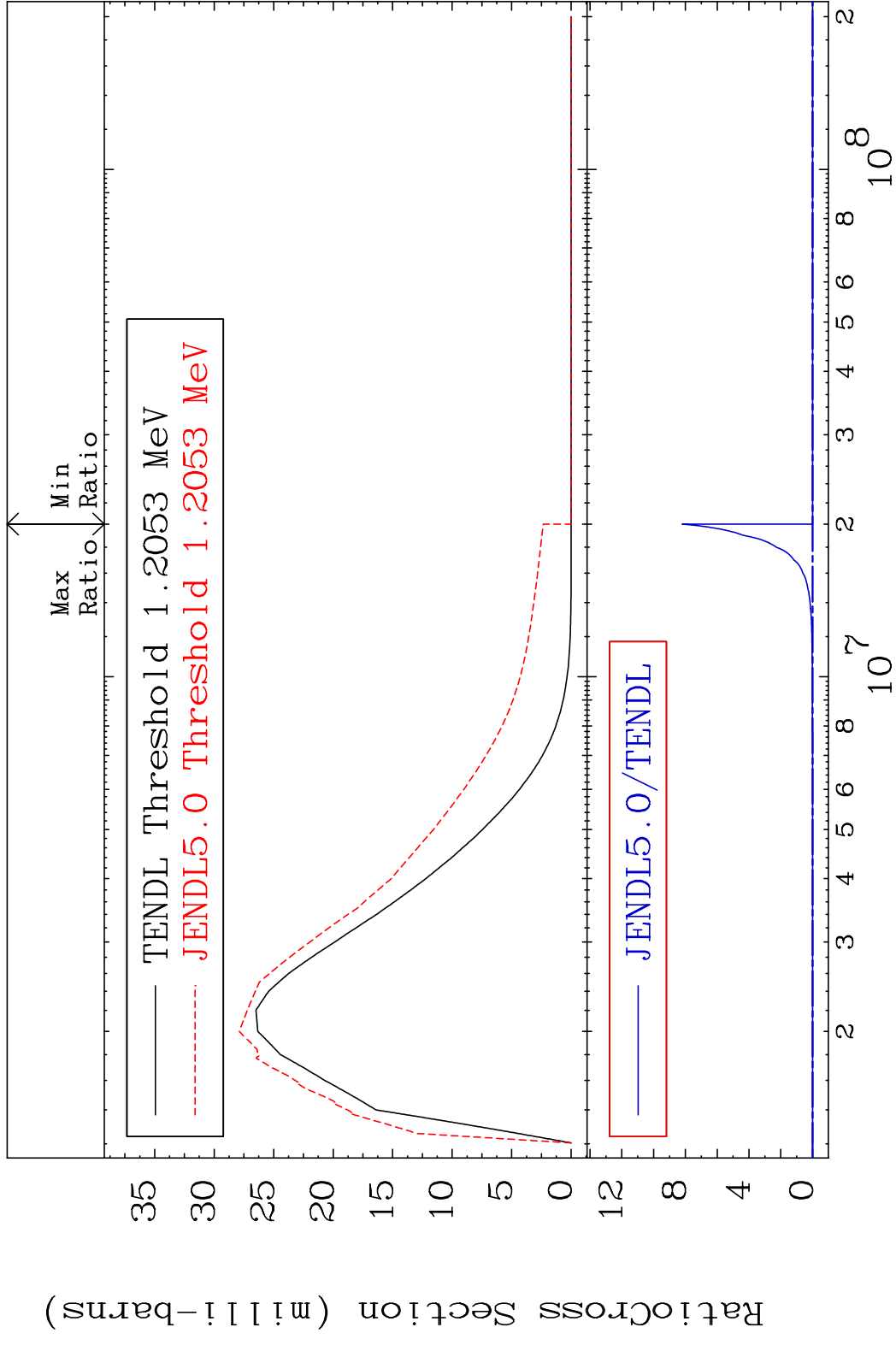
MAT 2722 MT= 61 (n, n') Level 27-Co-58
 Cross Section -100.0 To 122.5 %



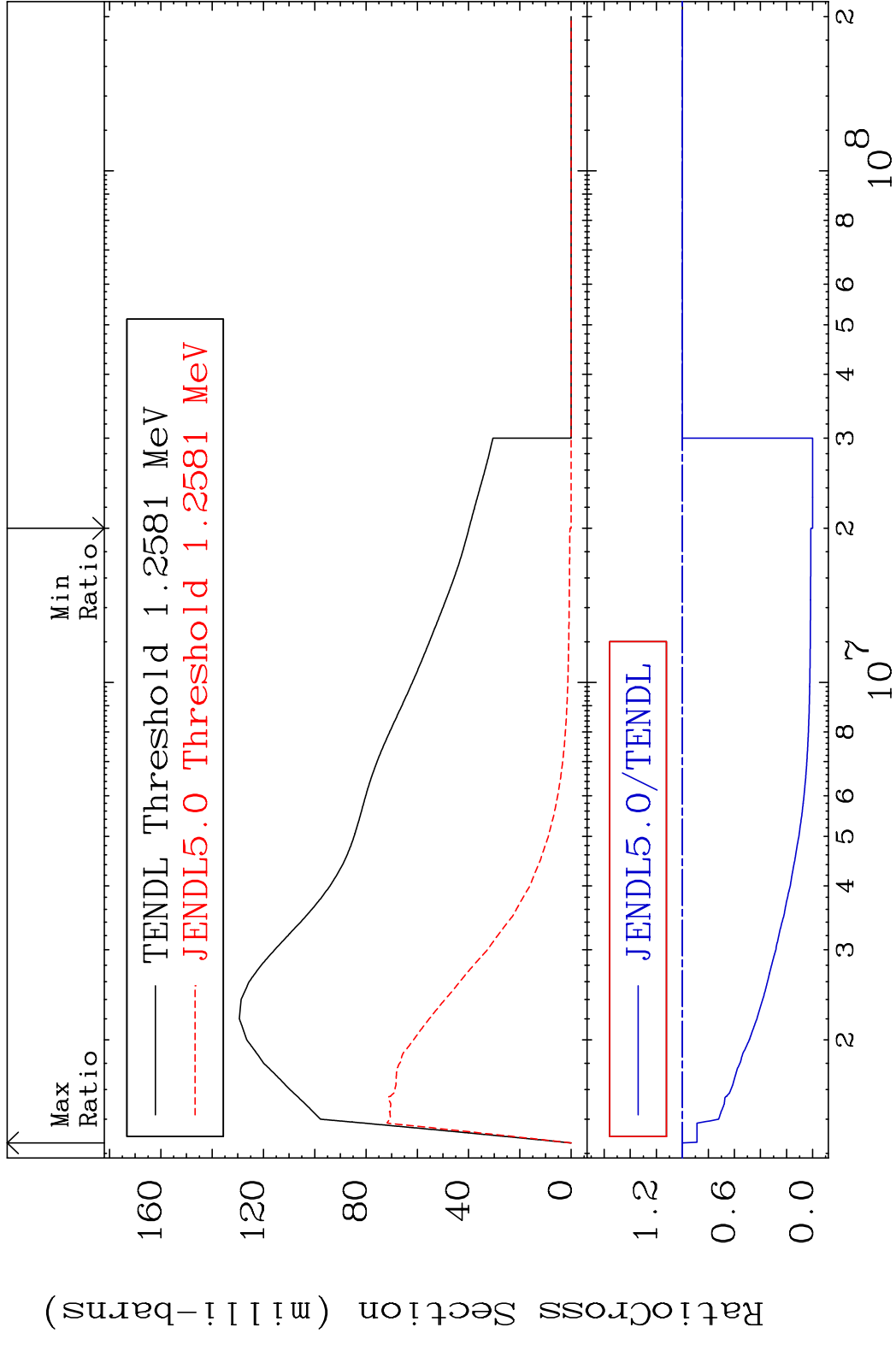
MAT 2722 MT= 62 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



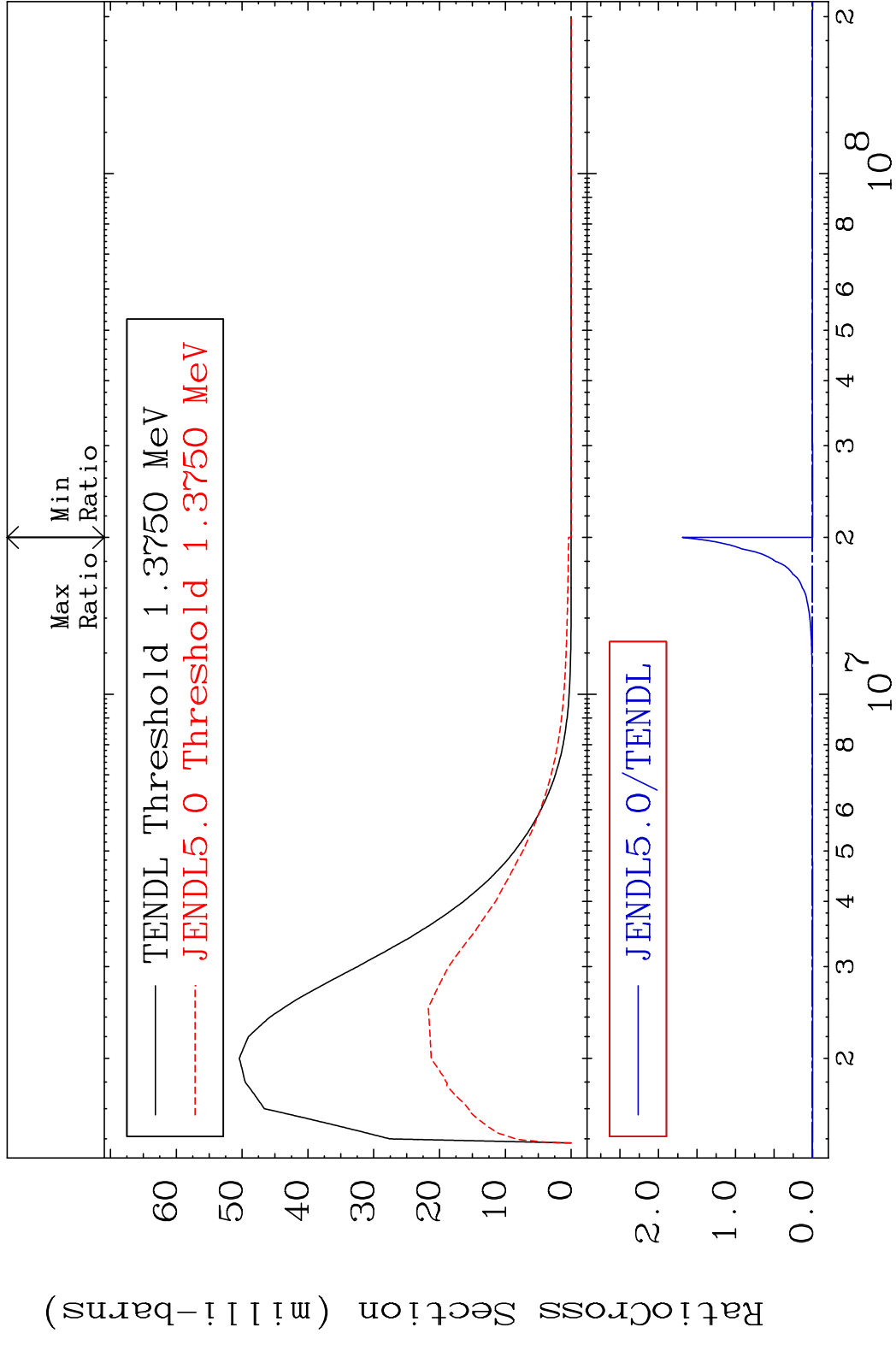
MAT 2722 MT= 63 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



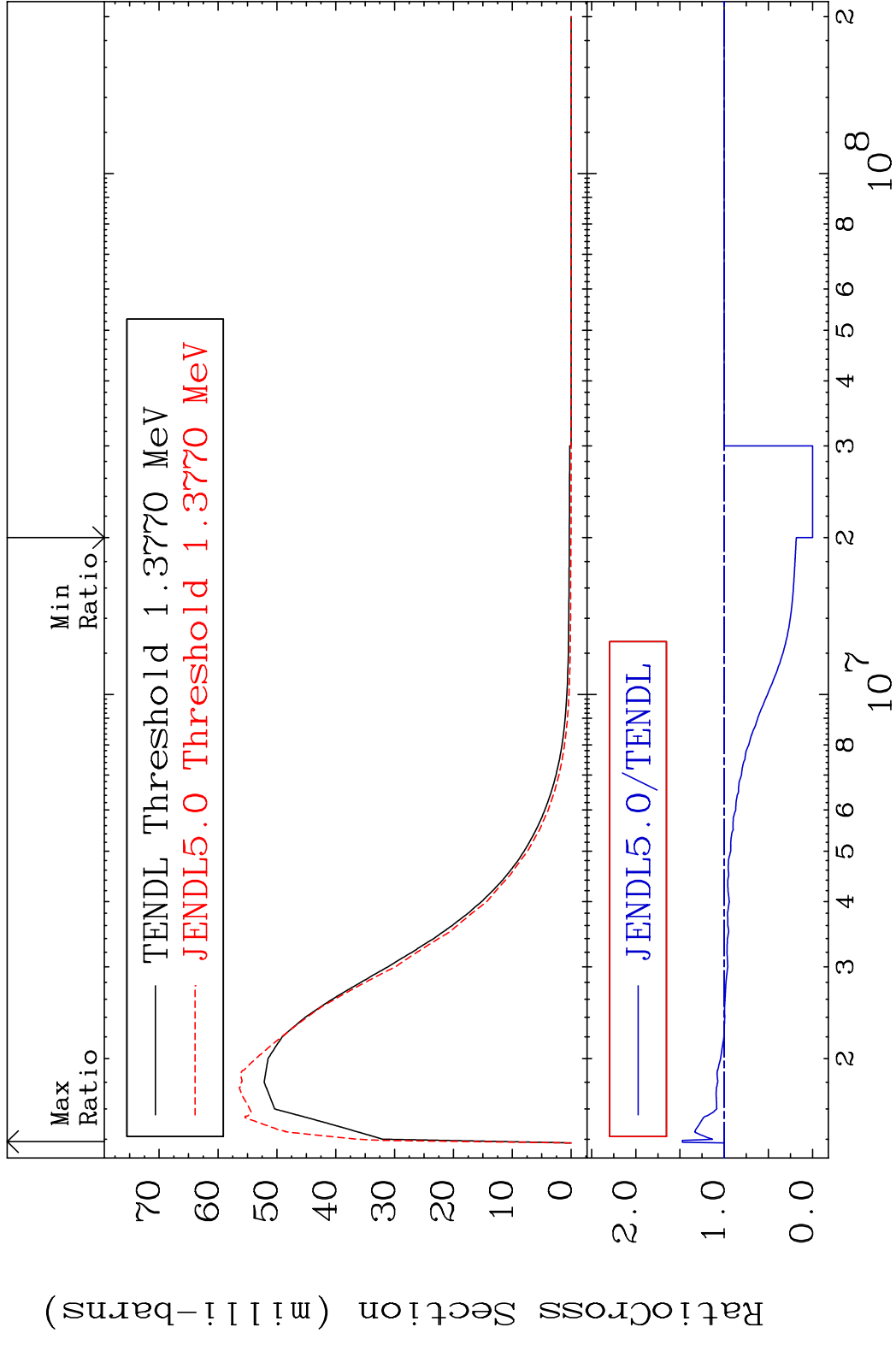
MAT 2722 MT= 64 (n, n') Level 27-Co-58
 Cross Section -100.0 To 0.000 %



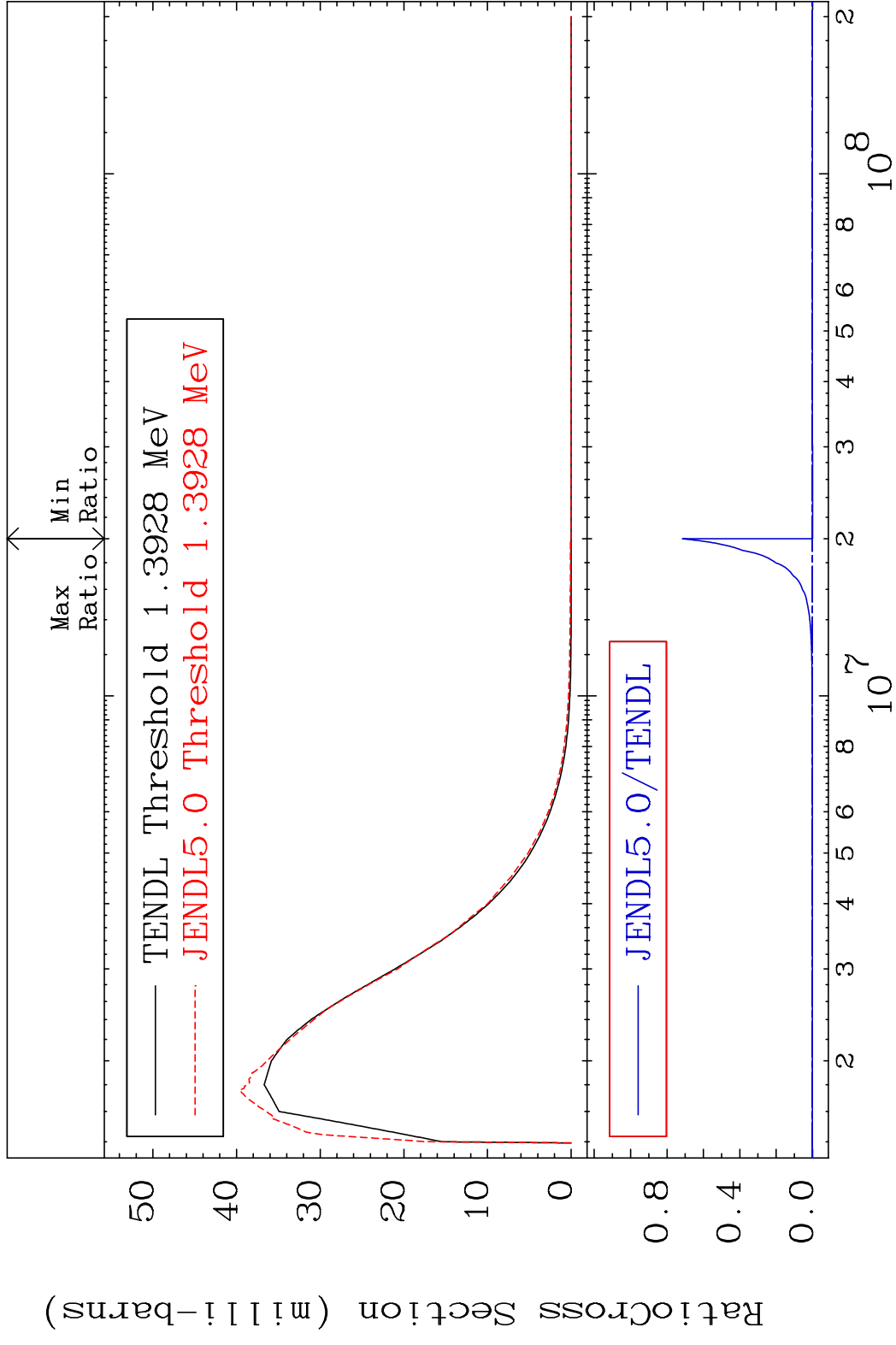
MAT 2722 MT= 65 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



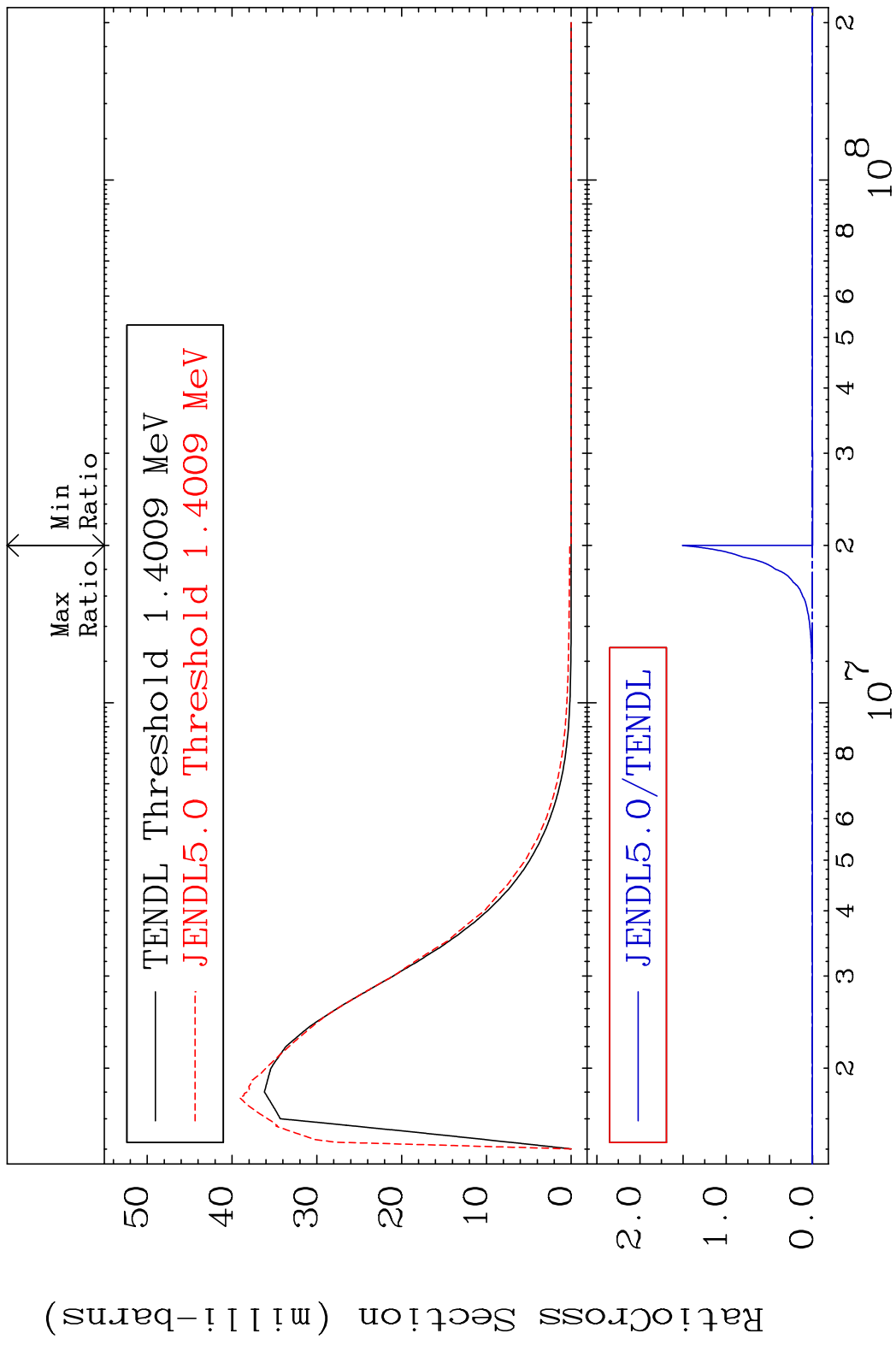
MAT 2722 MT= 66 (n, n') Level 27-Co-58
 Cross Section -100.0 To 47.32 %



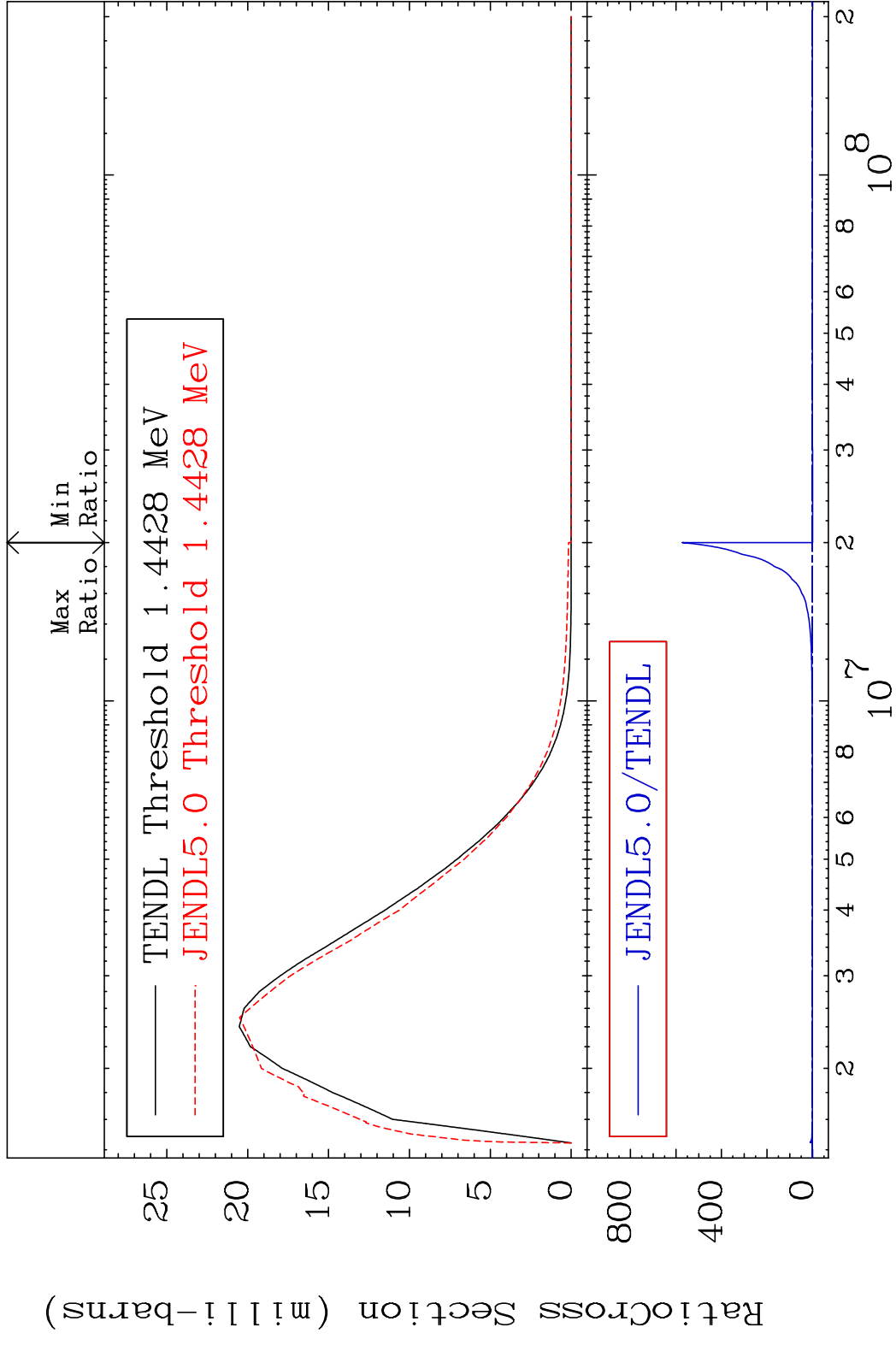
MAT 2722 MT= 67 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



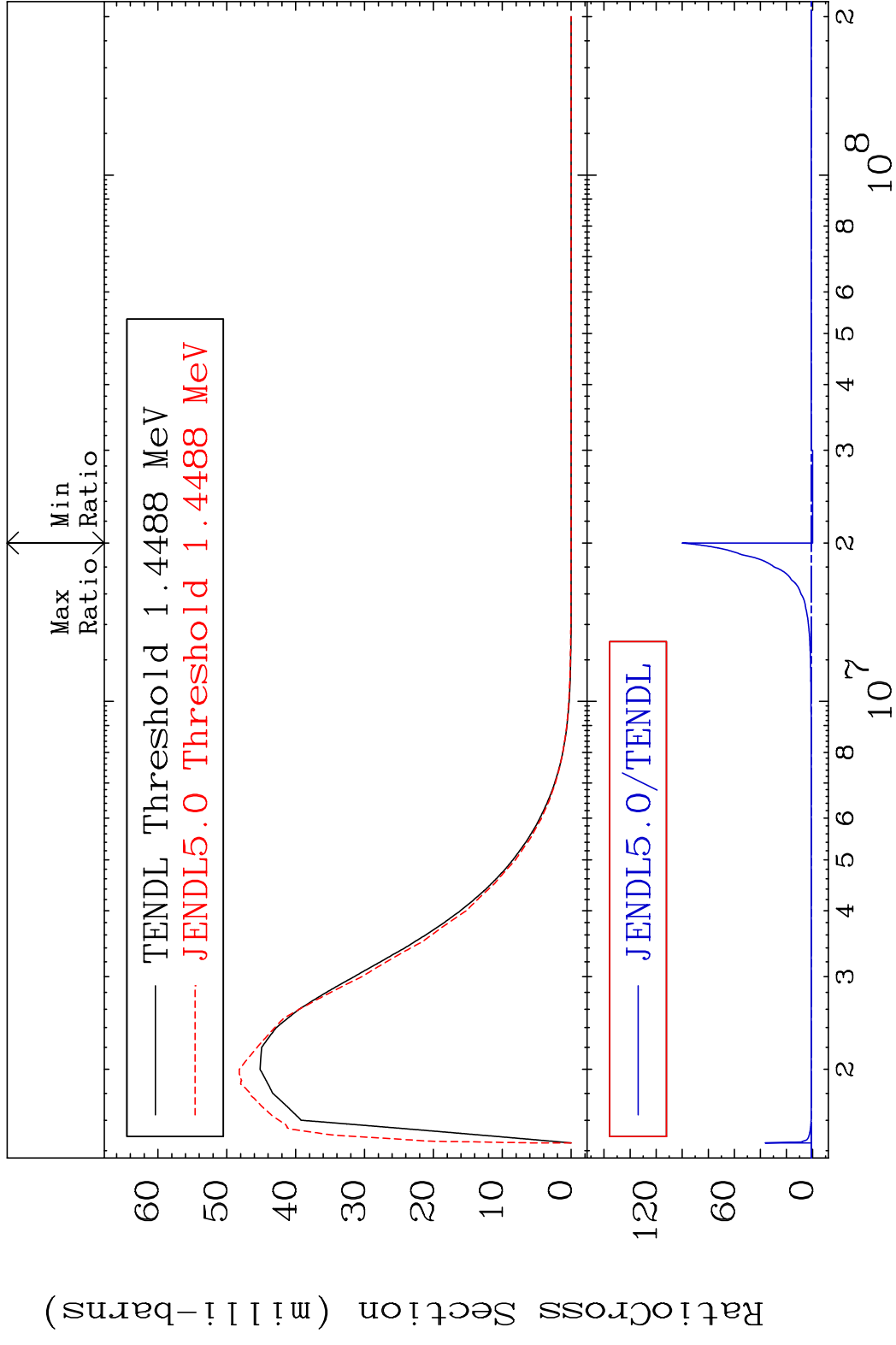
MAT 2722 MT= 68 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



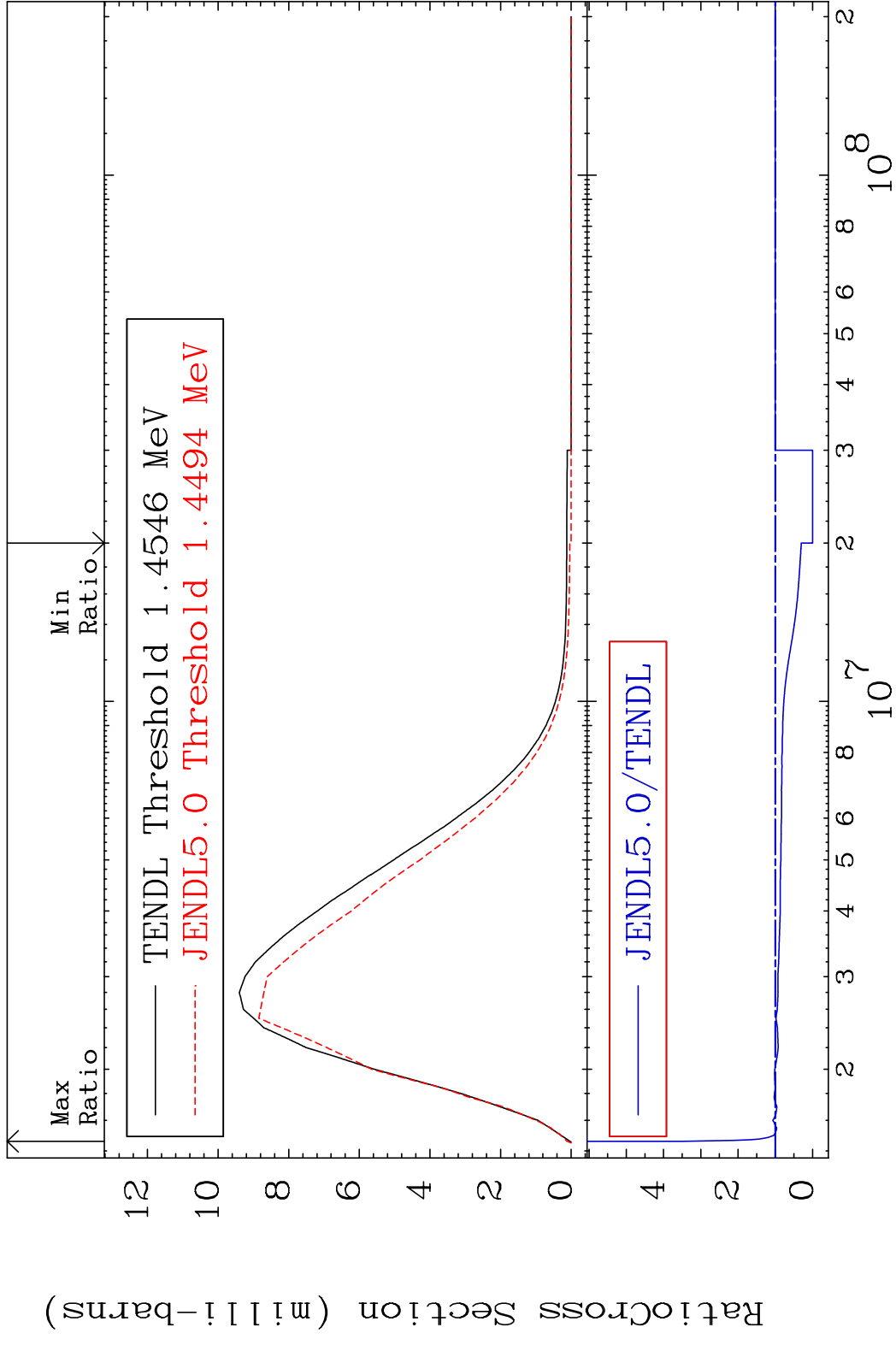
MAT 2722 MT= 69 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



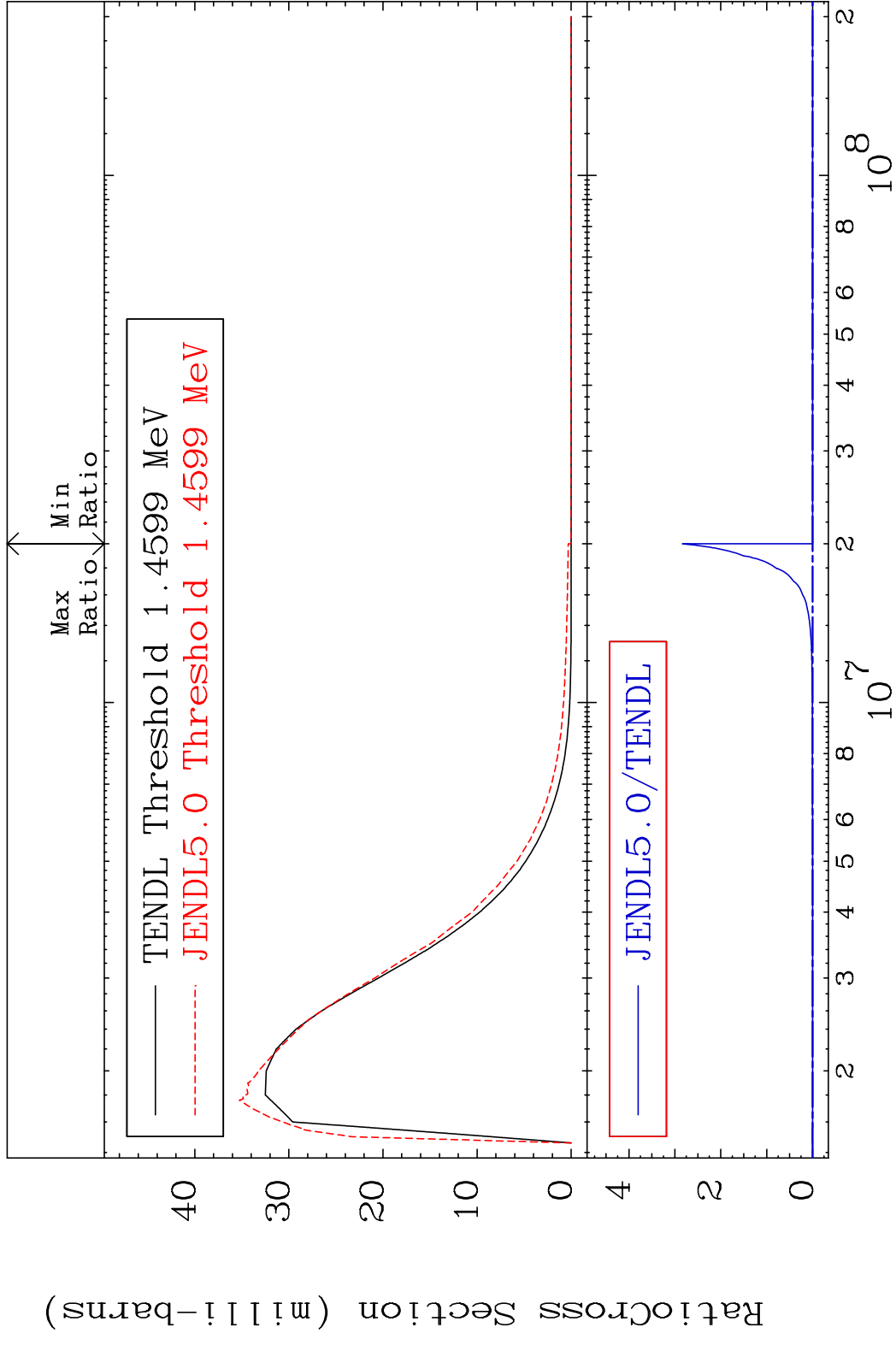
MAT 2722 MT= 70 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9890. %



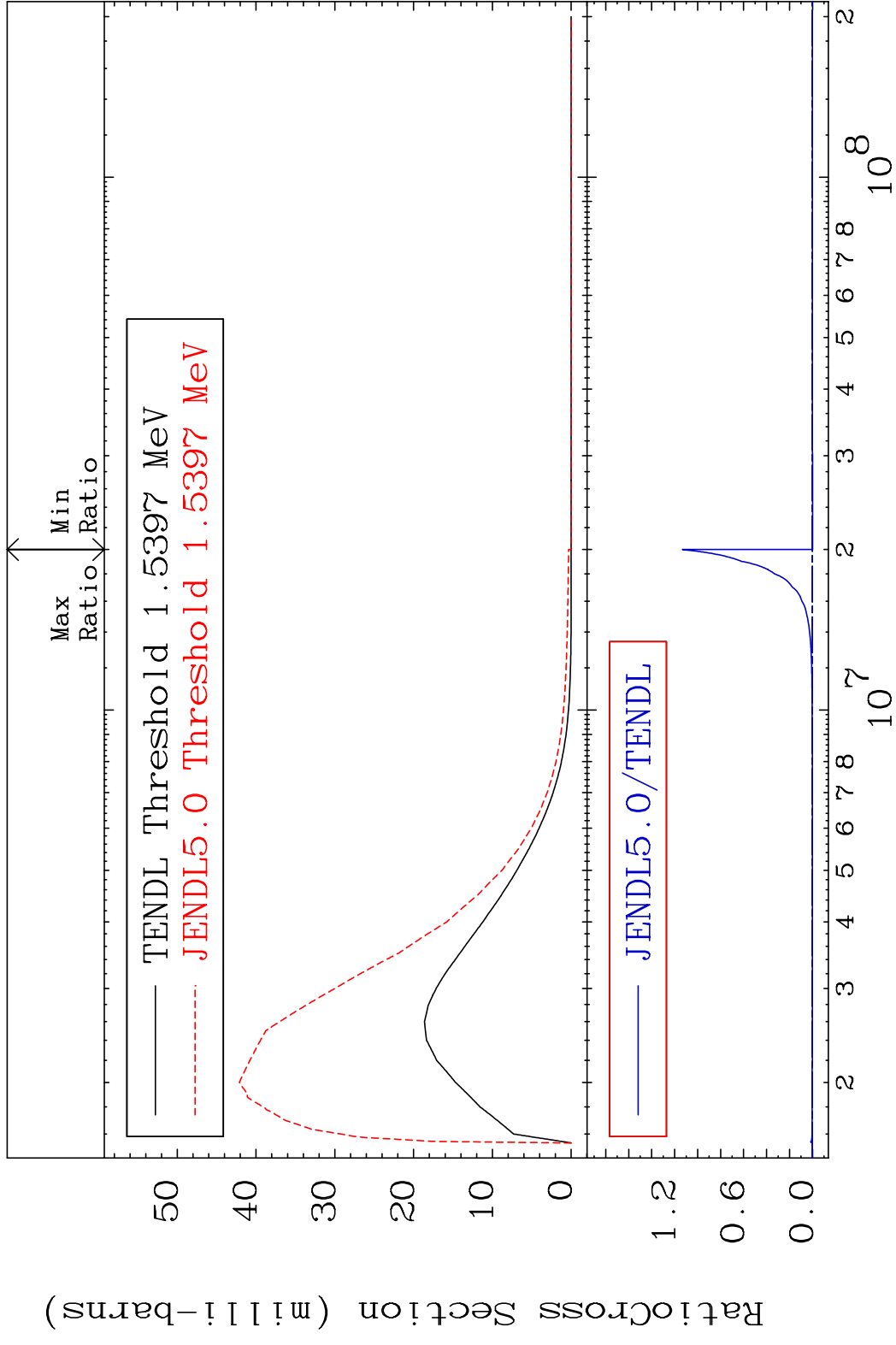
MAT 2722 MT= 71 (n,n') Level 27-Co-58
 Cross Section -100.0 To 249.6 %



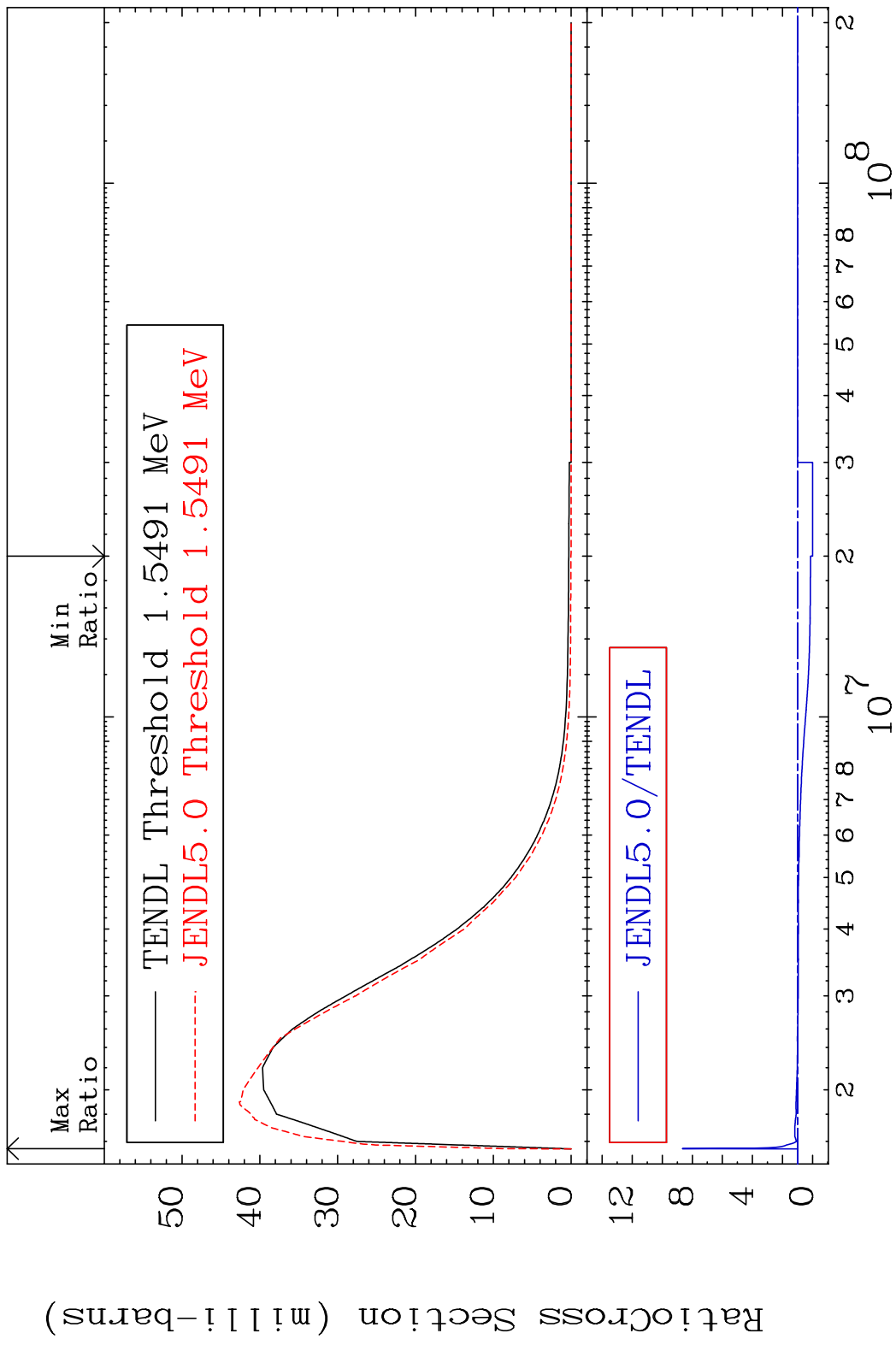
MAT 2722 MT= 72 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



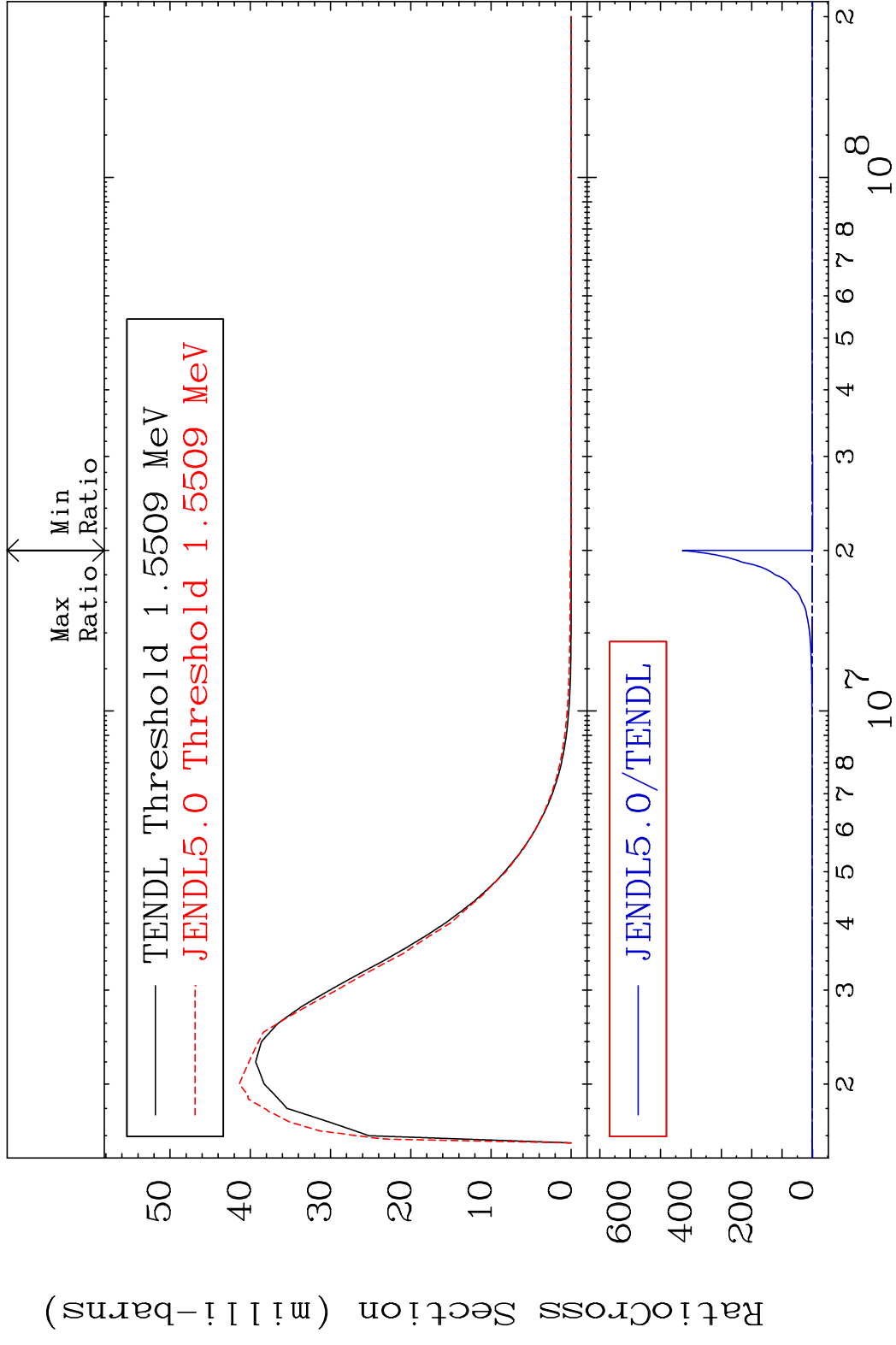
MAT 2722 MT= 73 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



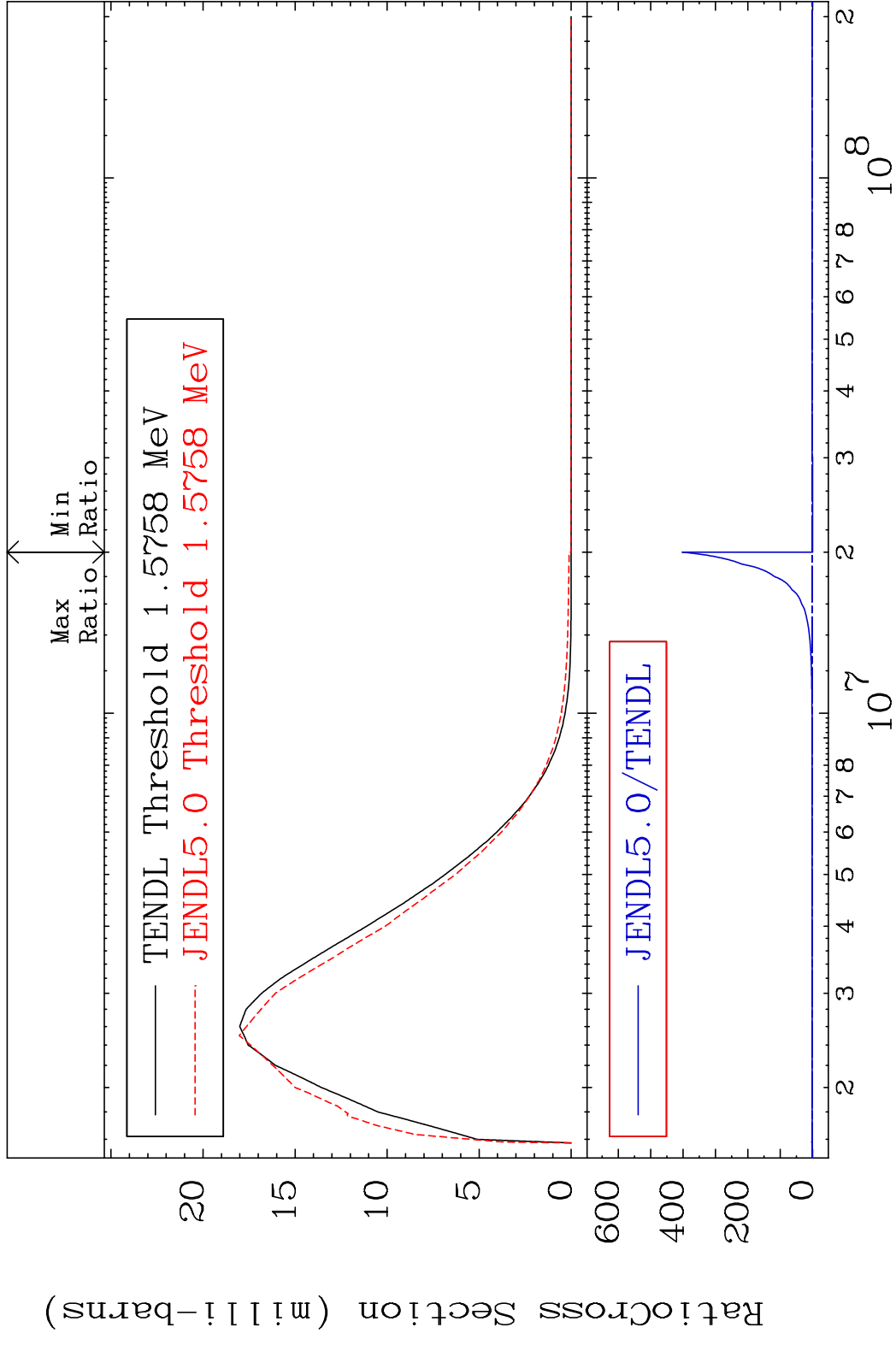
MAT 2722 MT= 74 (n,n') Level 27-Co-58
 Cross Section -100.0 To 766.3 %



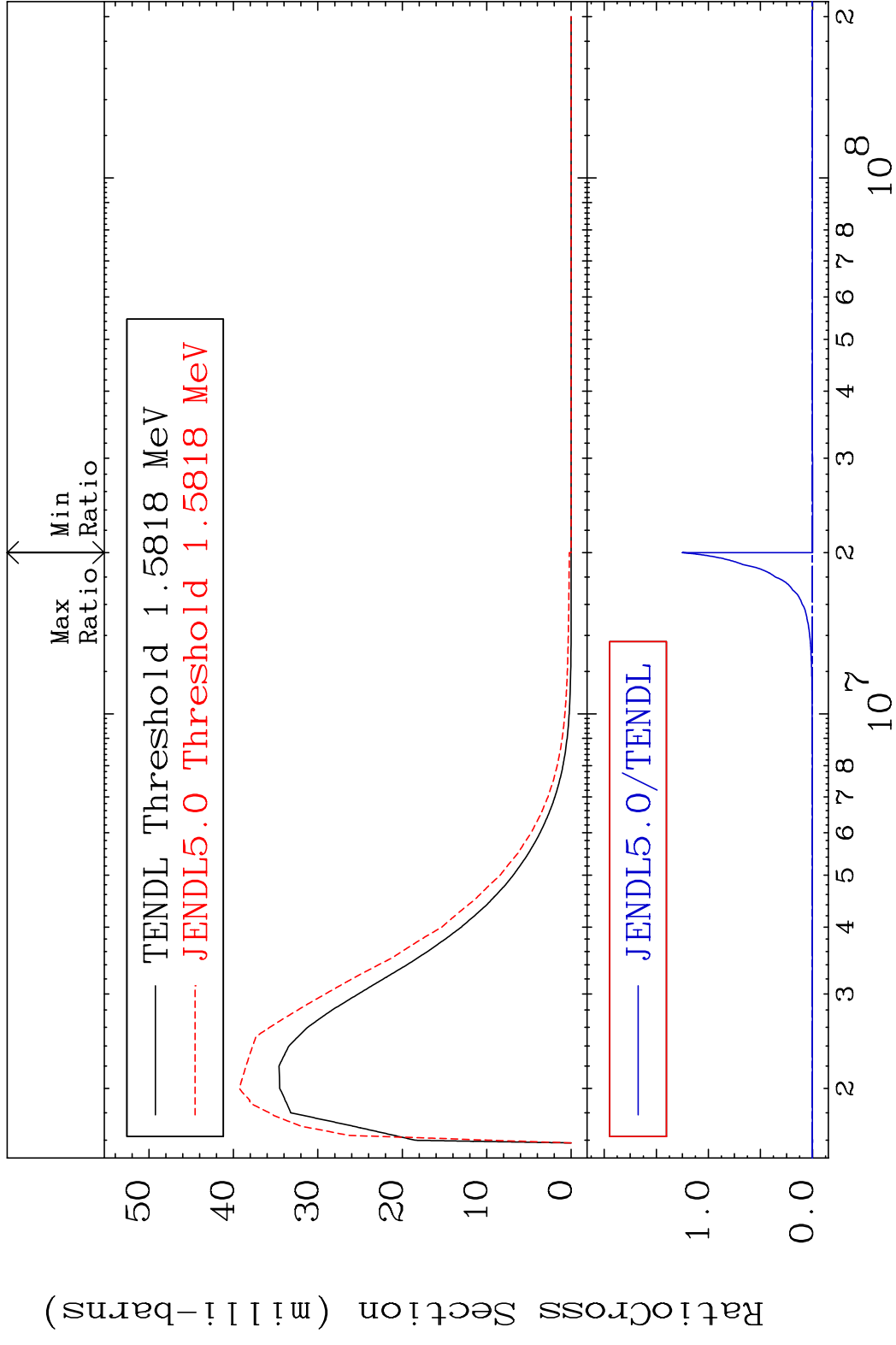
MAT 2722 MT= 75 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



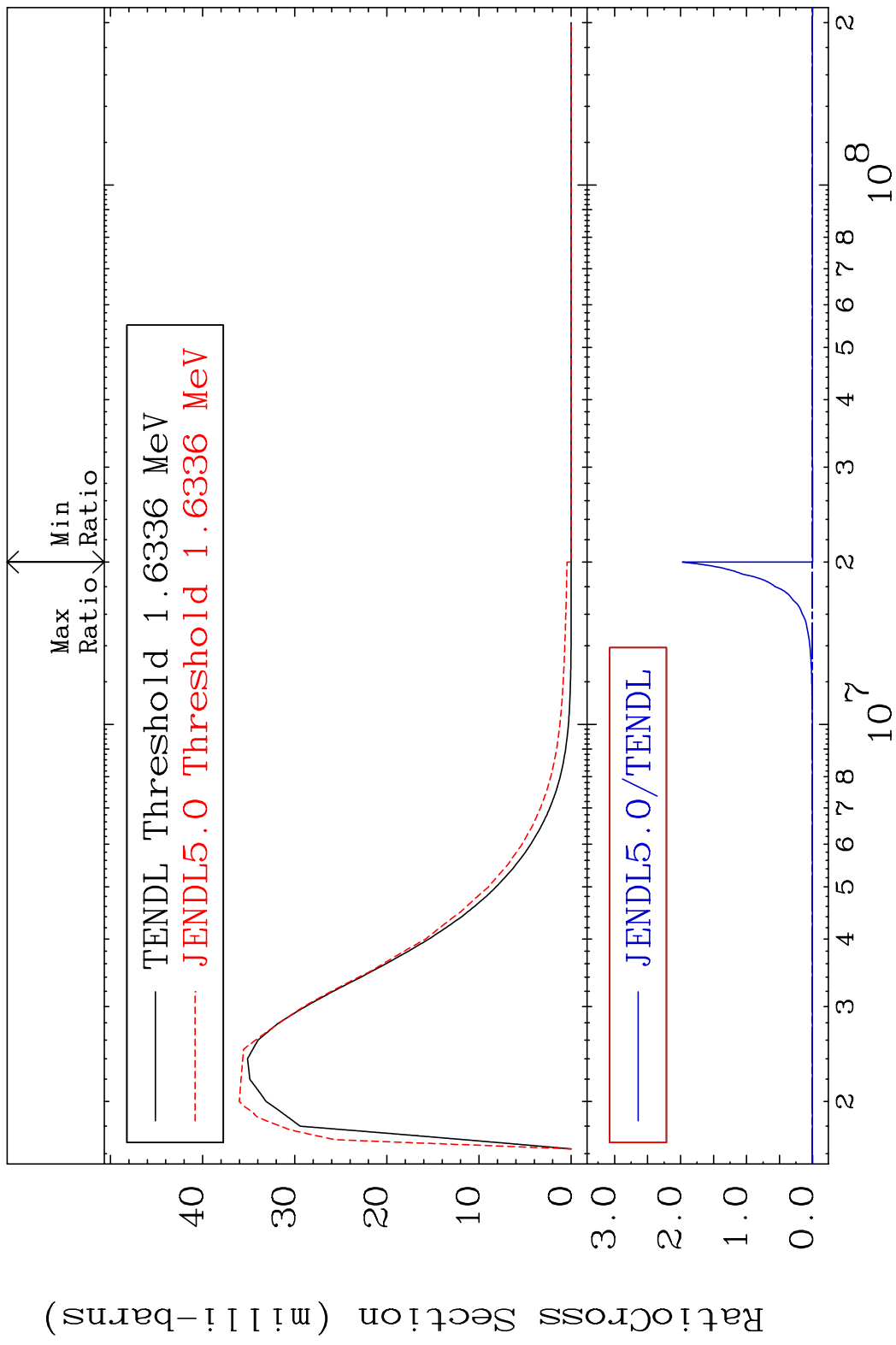
MAT 2722 MT= 76 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



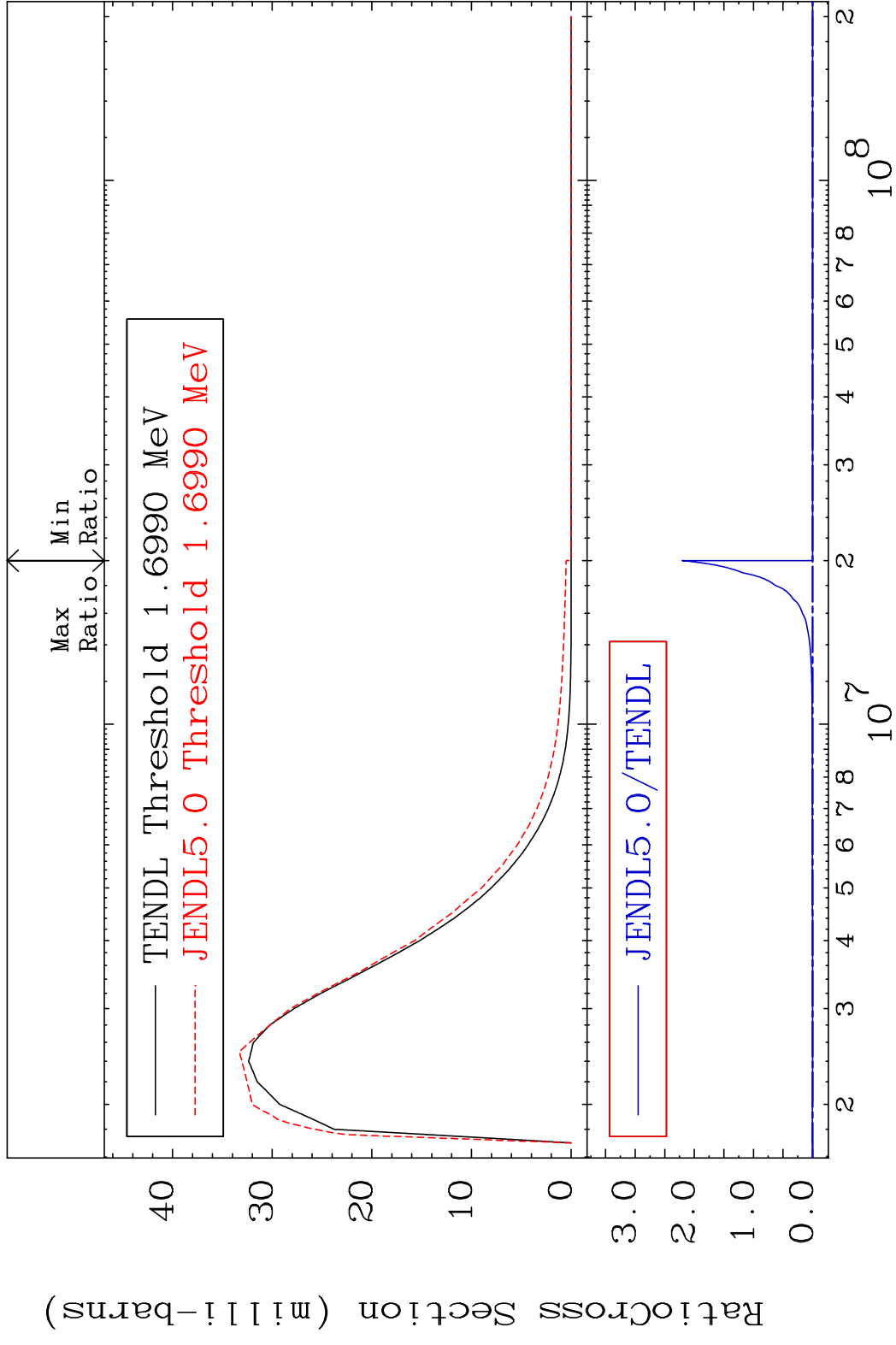
MAT 2722 MT= 77 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



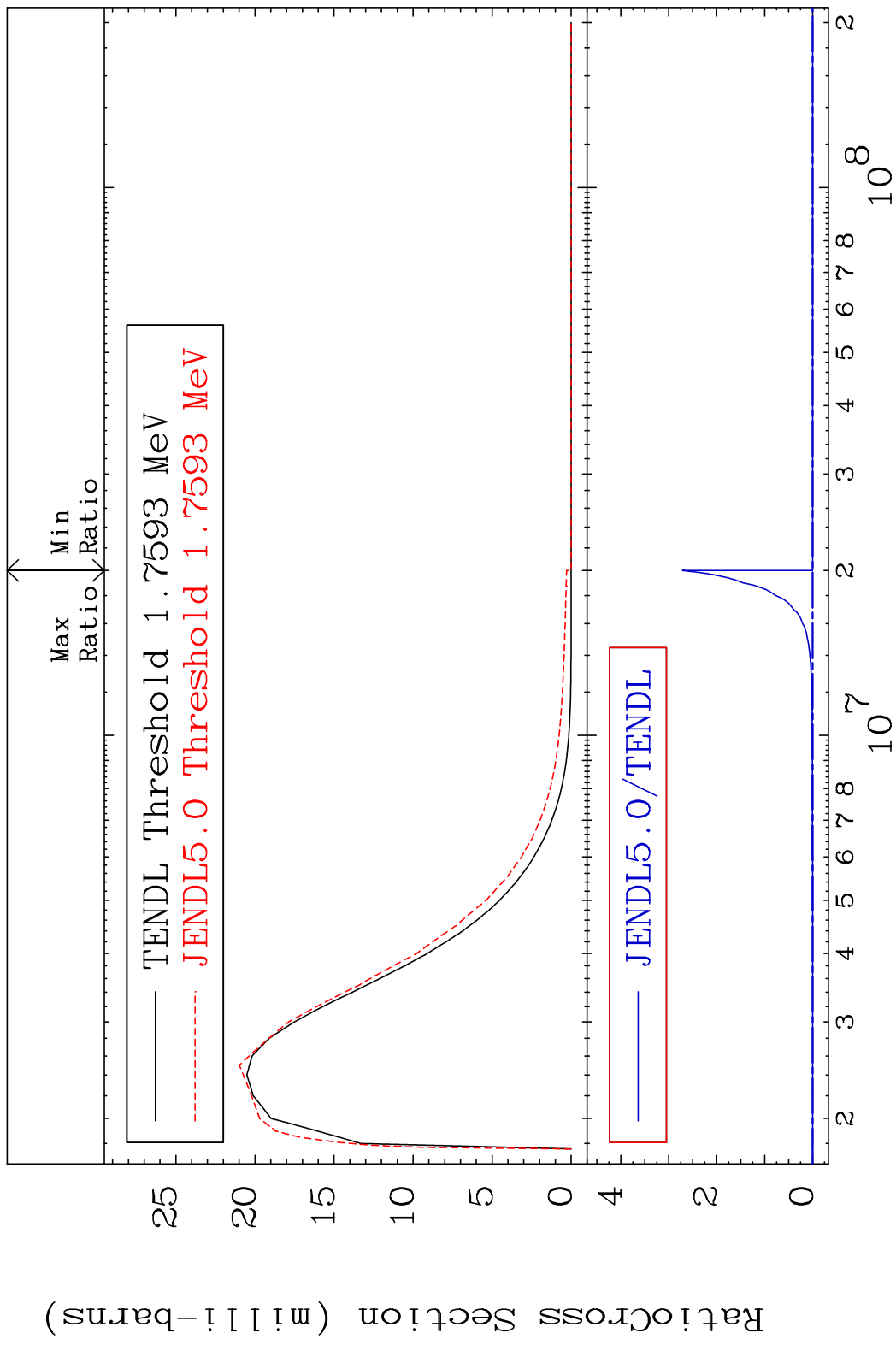
MAT 2722 MT= 78 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



MAT 2722 MT= 79 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %



MAT 2722 MT= 80 (n, n') Level 27-Co-58
 Cross Section -100.0 To 9999. %

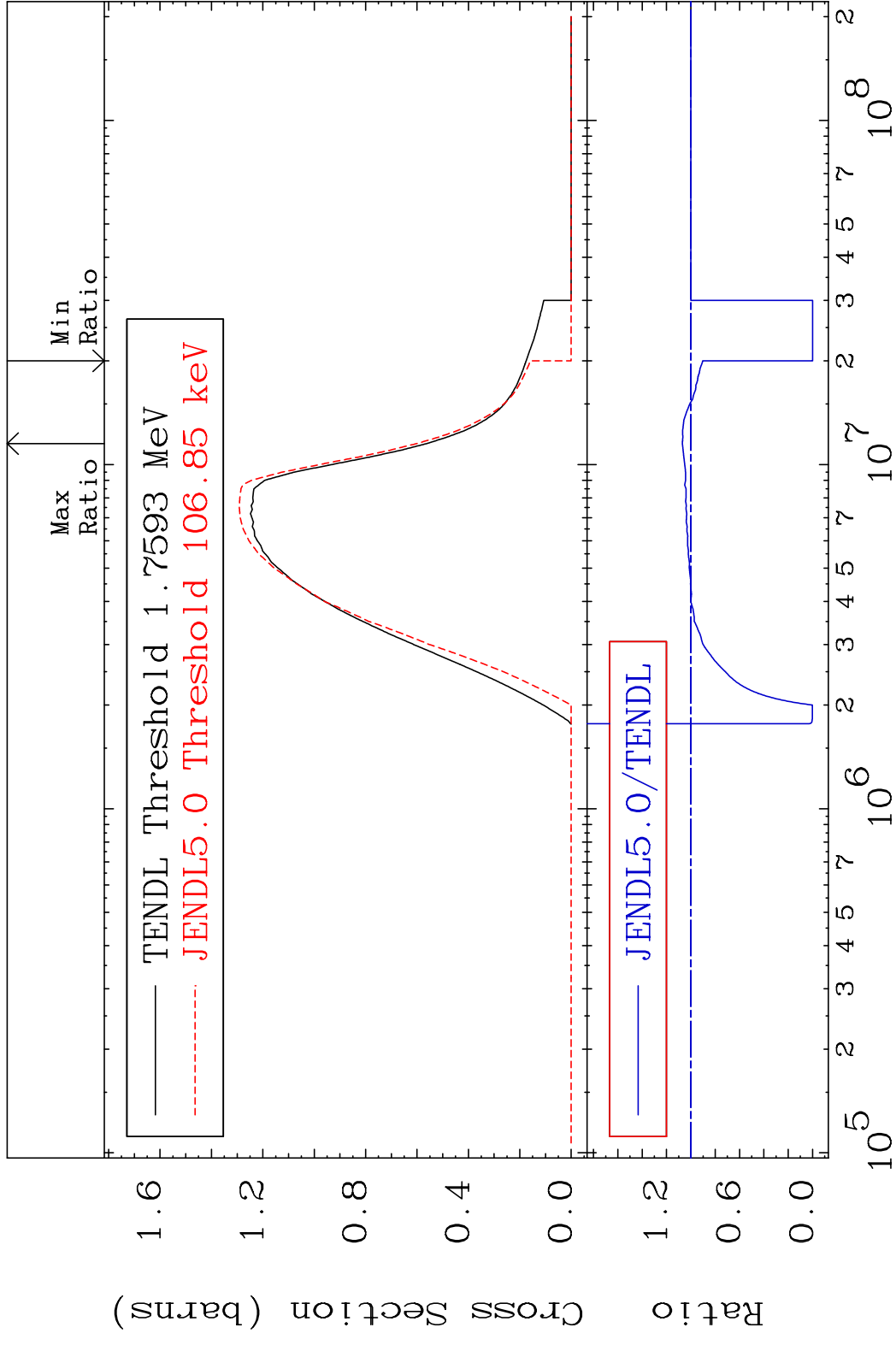


MAT 2722

(n,n') Continuum

27-Co-58

Cross Section -100.0 To 6.999 %



40

Incident Energy (eV)

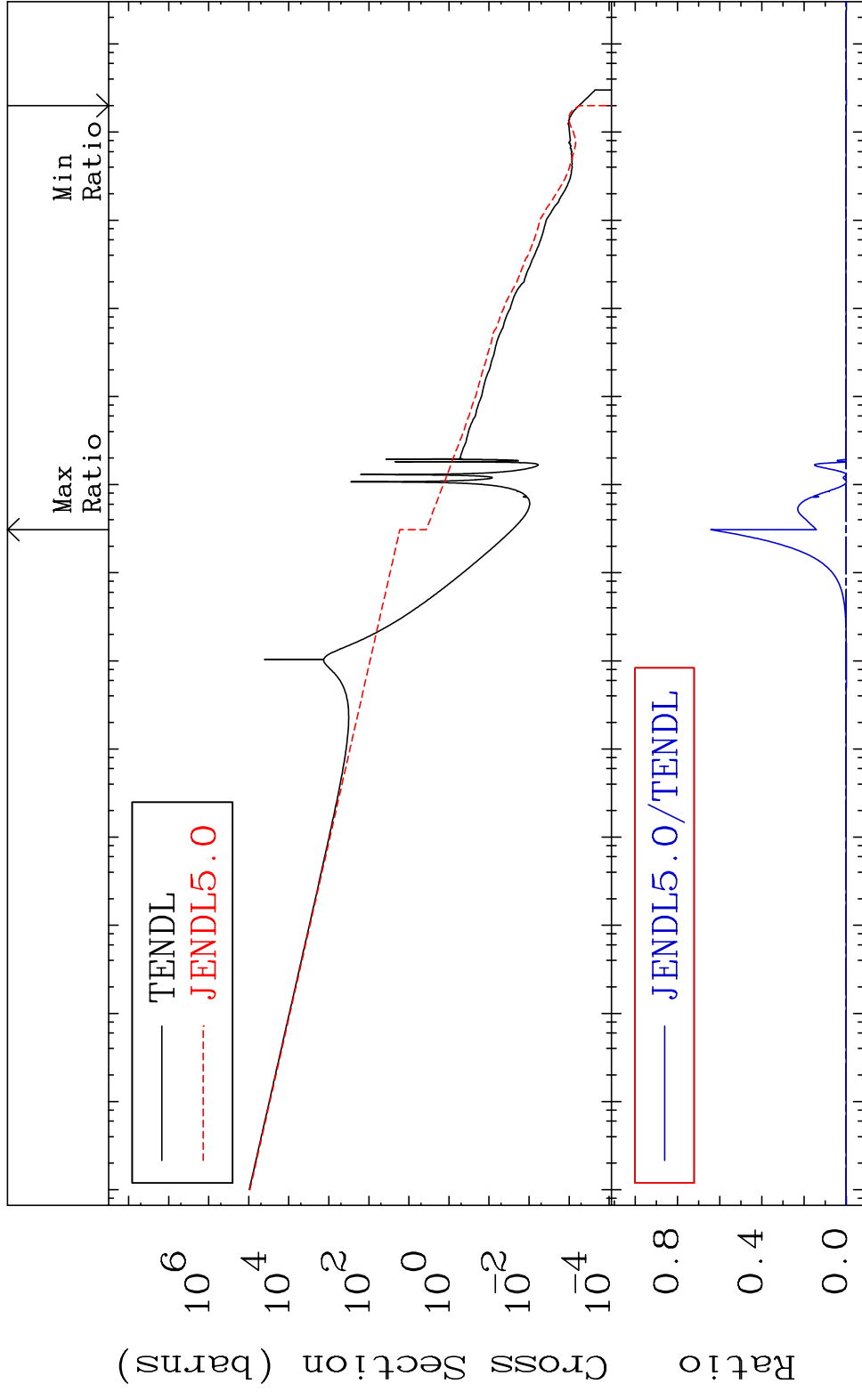
27-Co-58

MAT 2722

27-Co-58

(n, γ)

Cross Section -100.0 To 9999. %

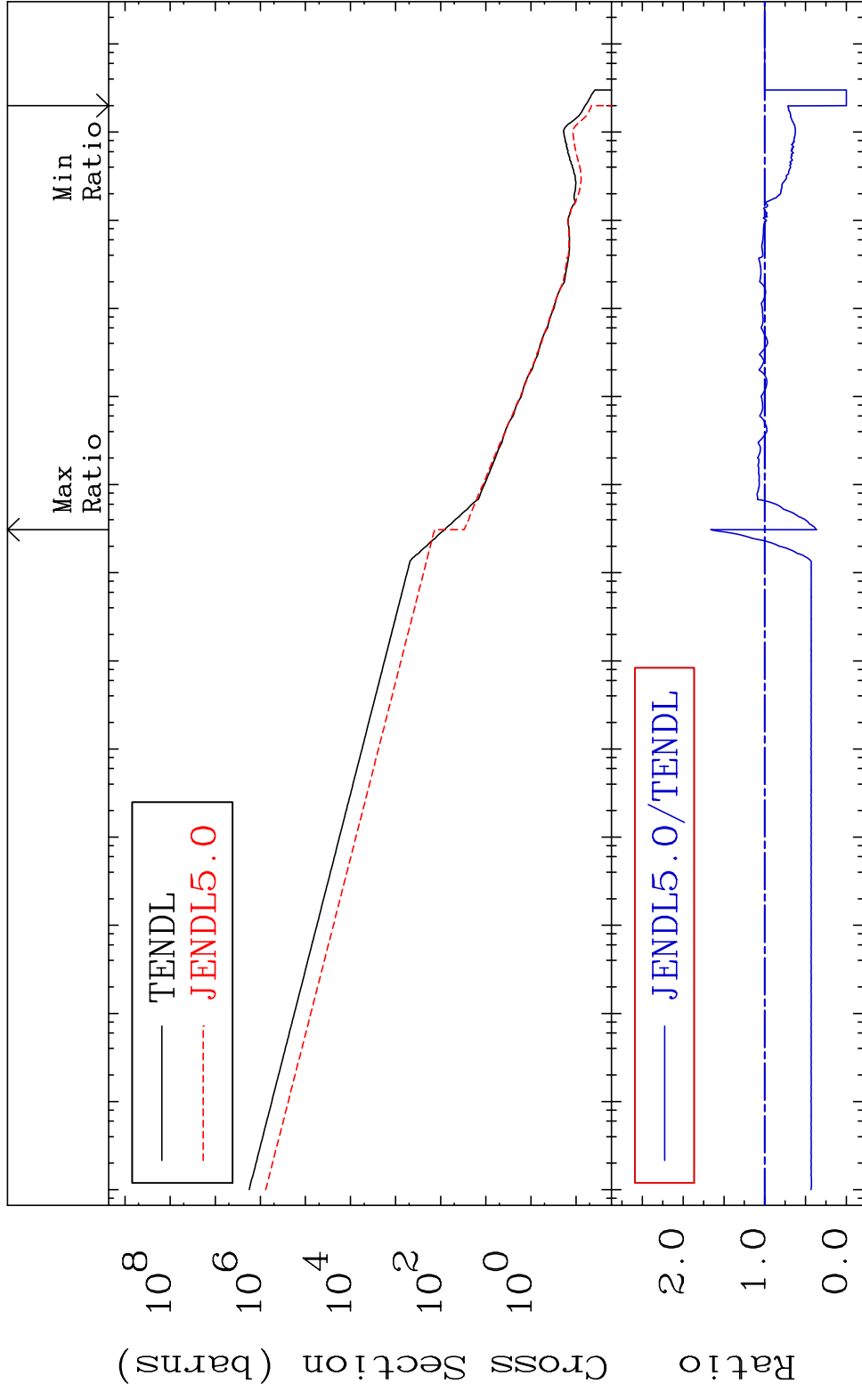


MAT 2722

(n, p)

27-Co-58

Cross Section -100.0 To 66.20 %

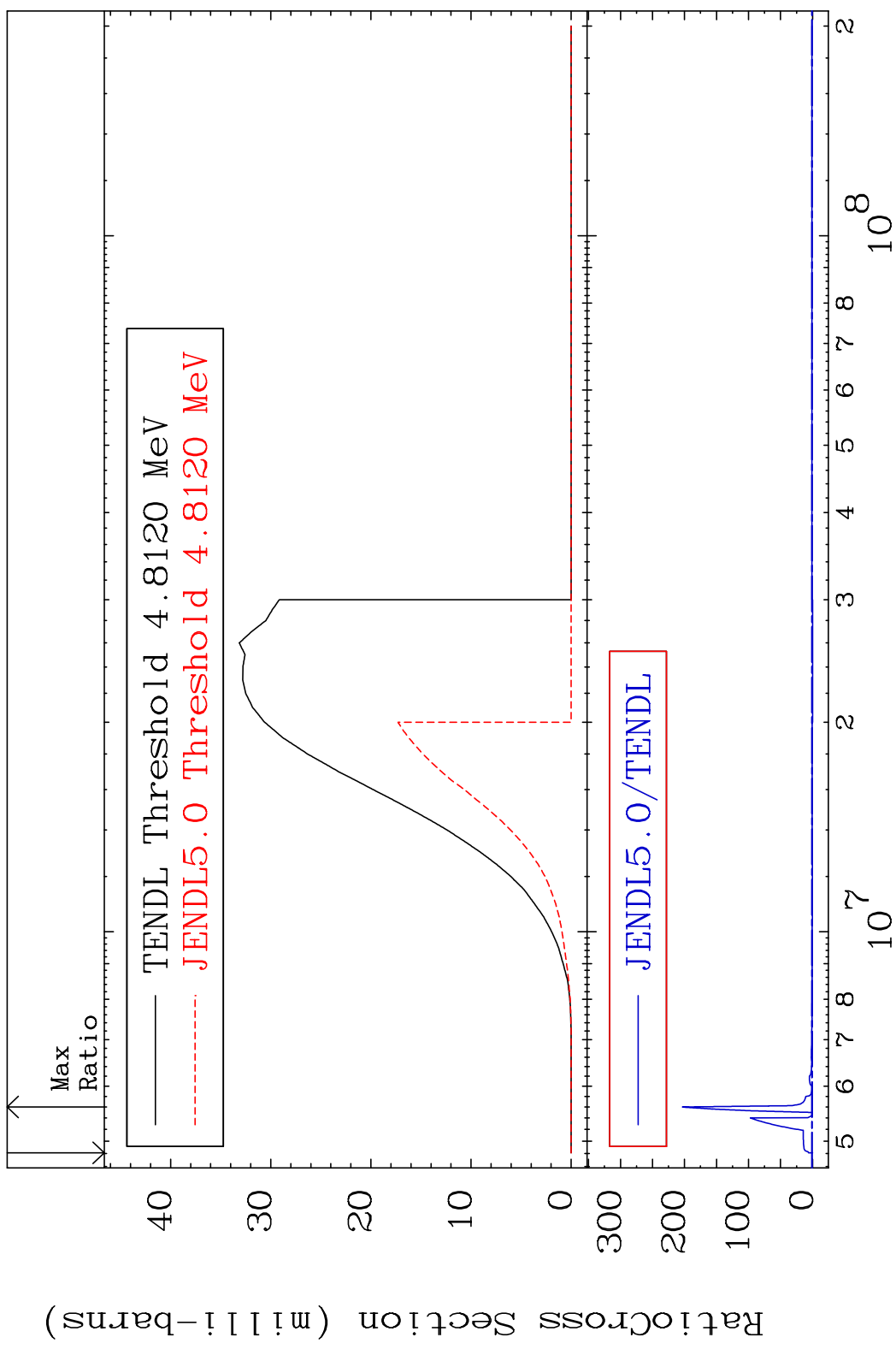


MAT 2722

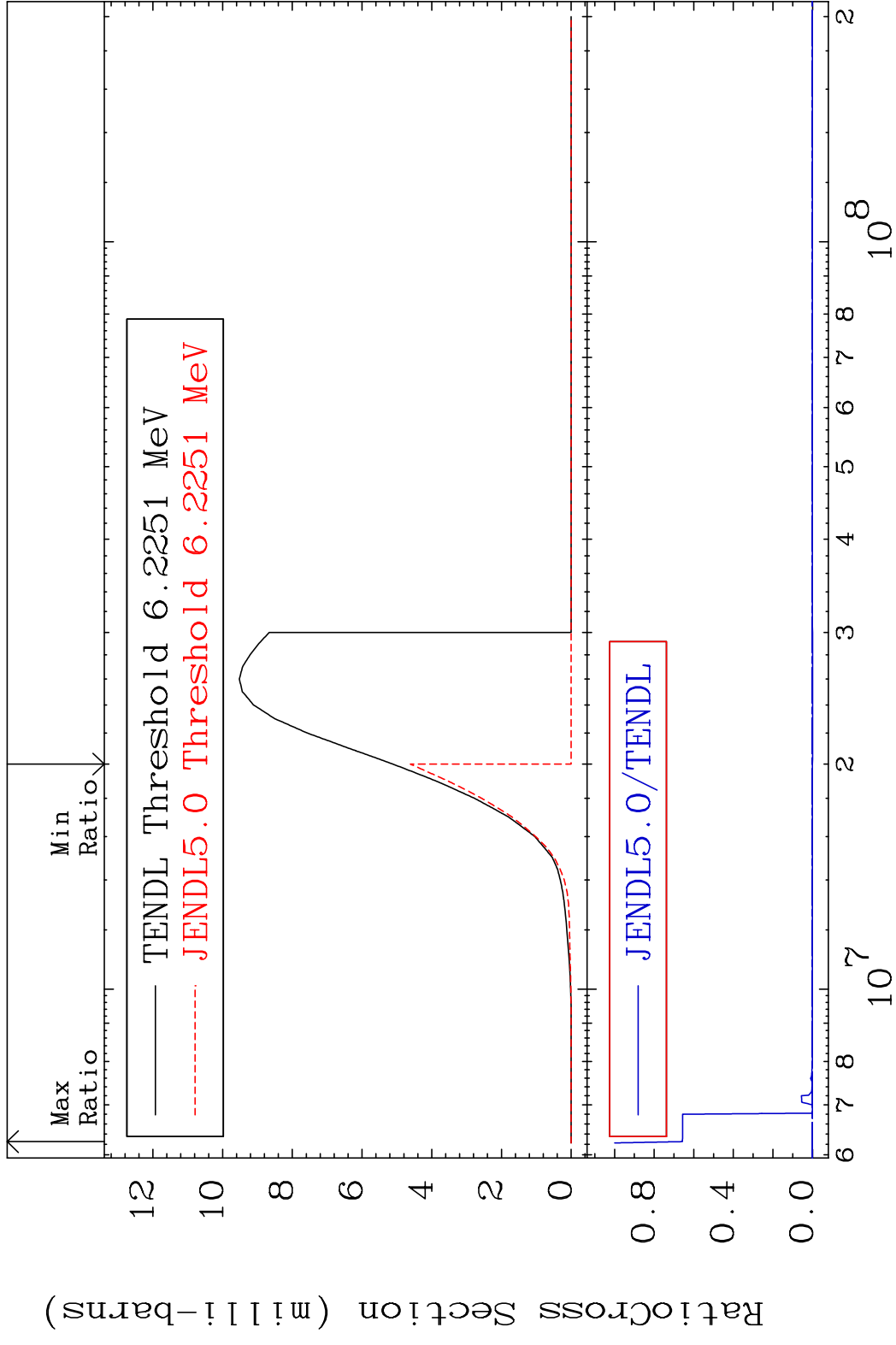
(n,d)

27-Co-58

Cross Section -100.0 To 9999. %



MAT 2722 (n, t) 27-Co-58
 Cross Section -100.0 To 9999. %

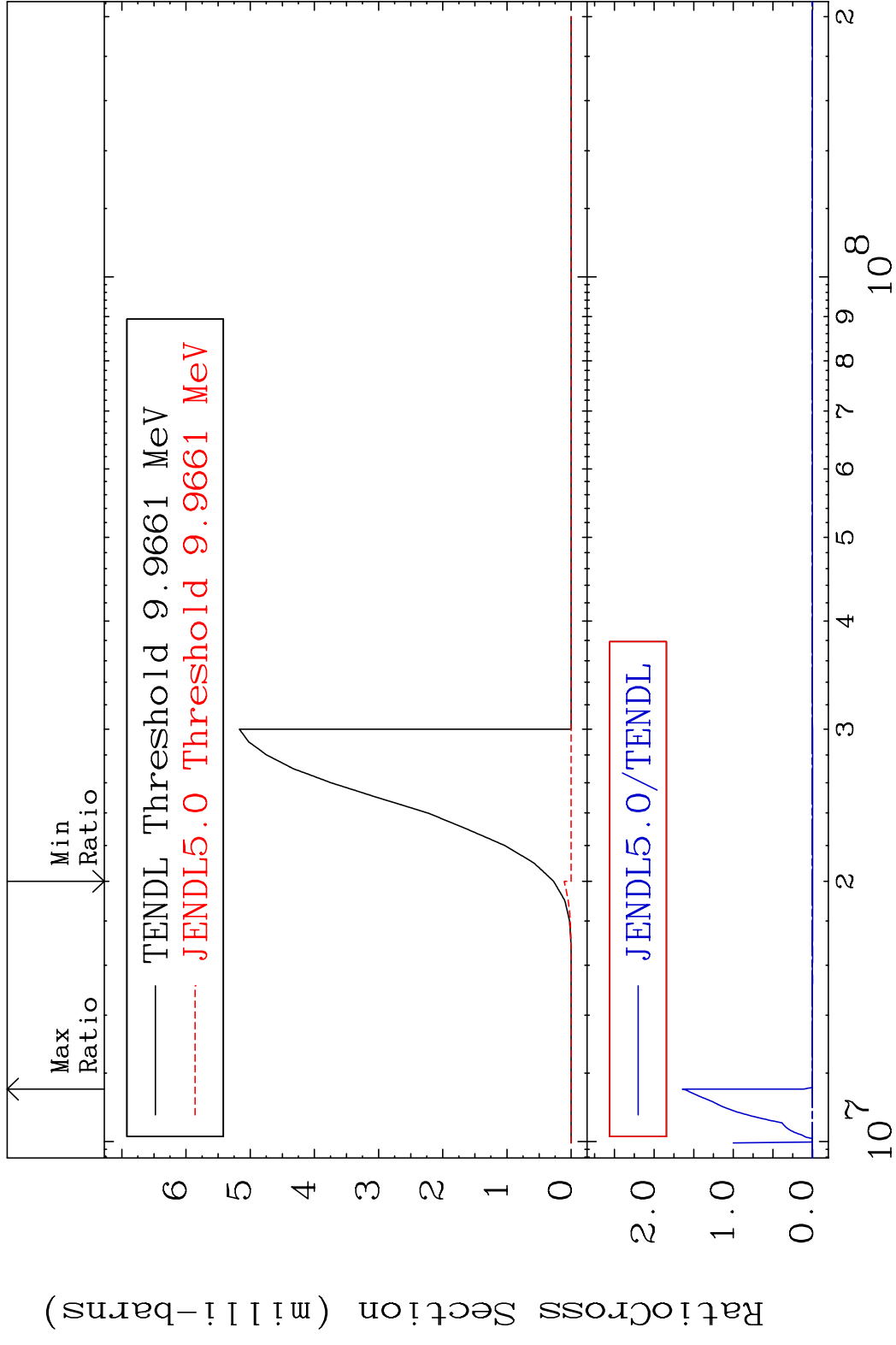


MAT 2722

(n, He-3)

27-Co-58

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

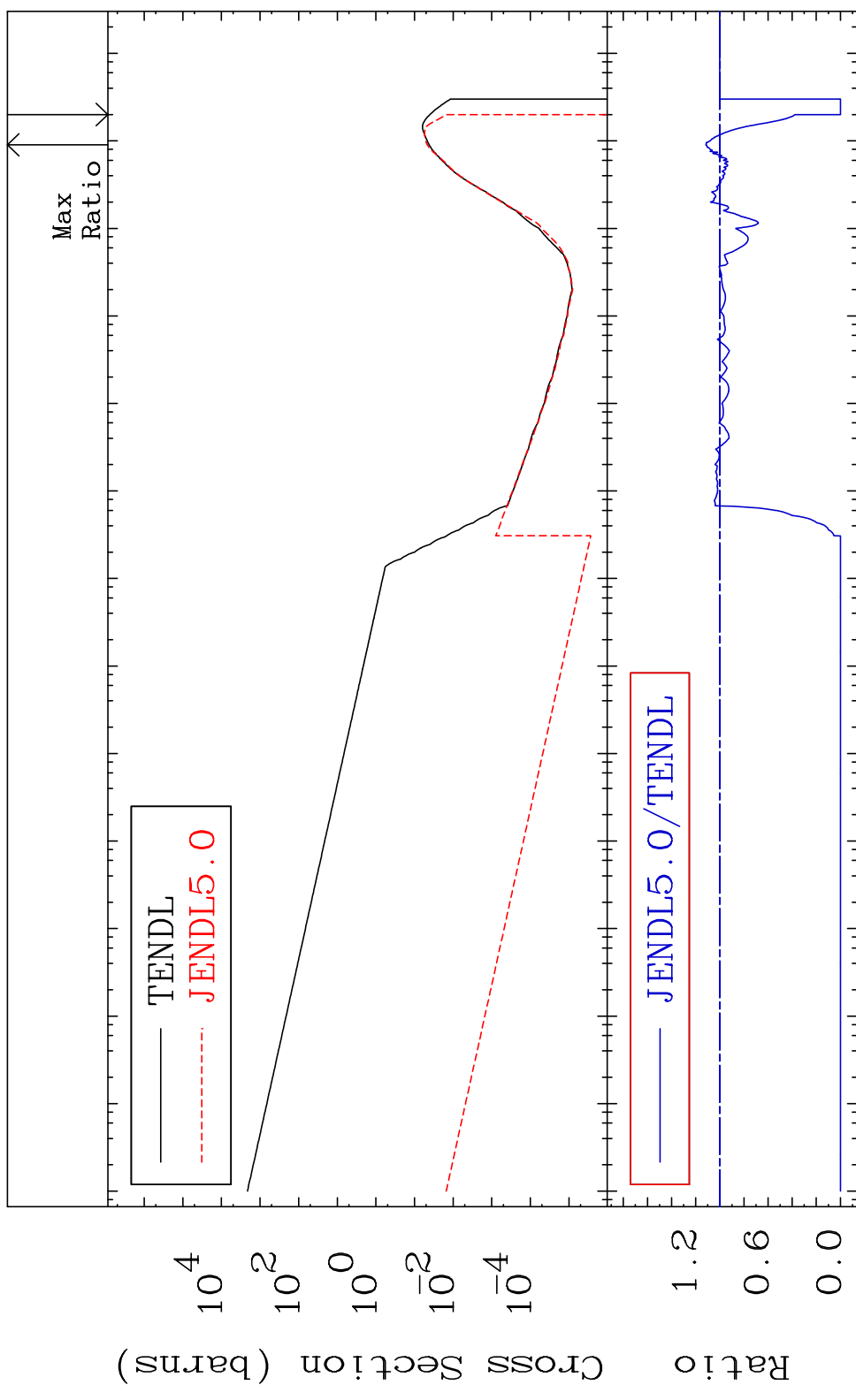
27-Co-58

MAT 2722

(n, α)

27-Co-58

Cross Section -100.0 To 11.64 %

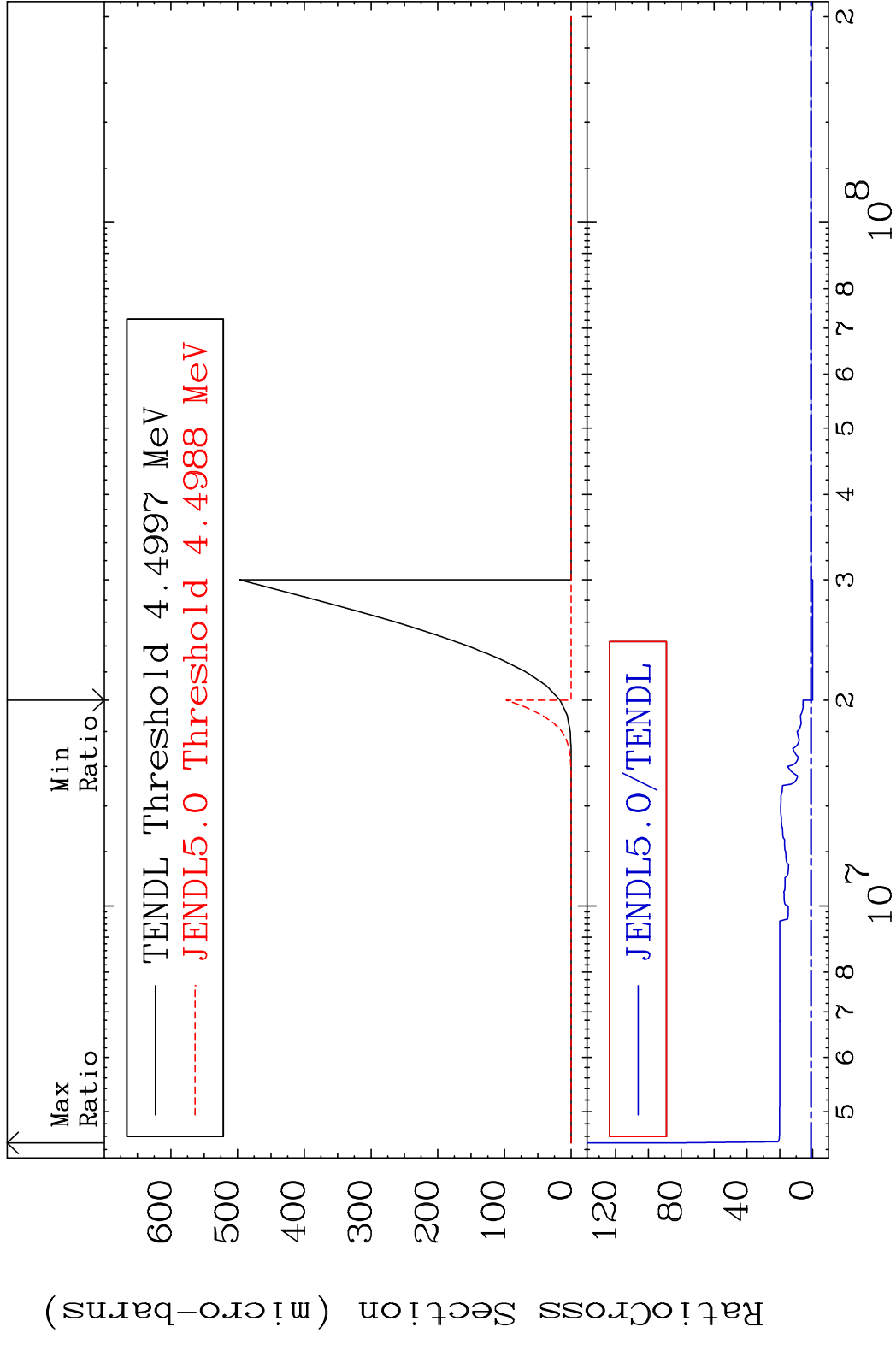


46

Incident Energy (eV)

27-Co-58

MAT 2722 (n,2α) 27-Co-58
 Cross Section -100.0 To 7834. %

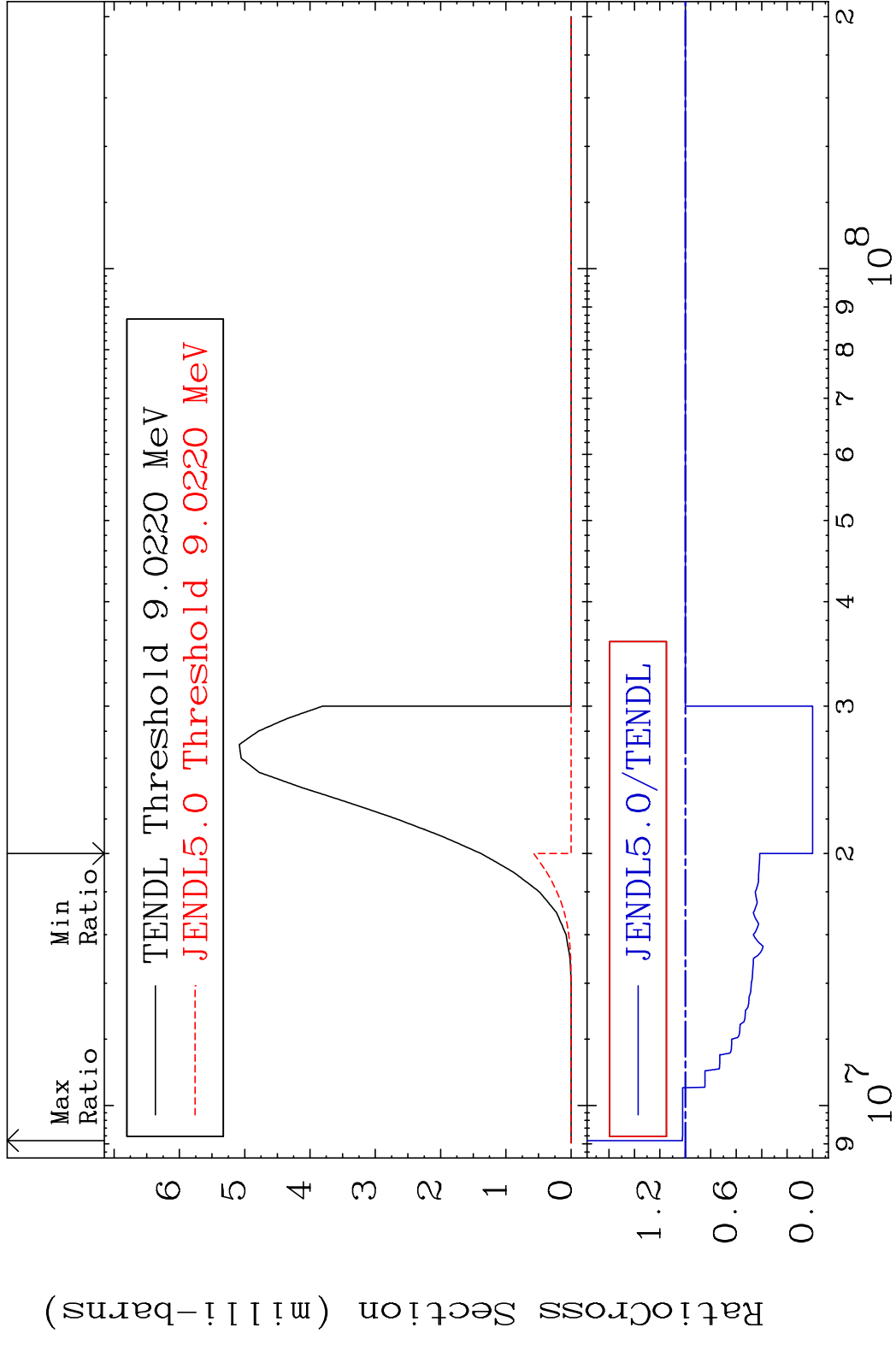


MAT 2722

(n,2p)

27-Co-58

Cross Section -100.0 To 2.329 %



48

Incident Energy (eV)

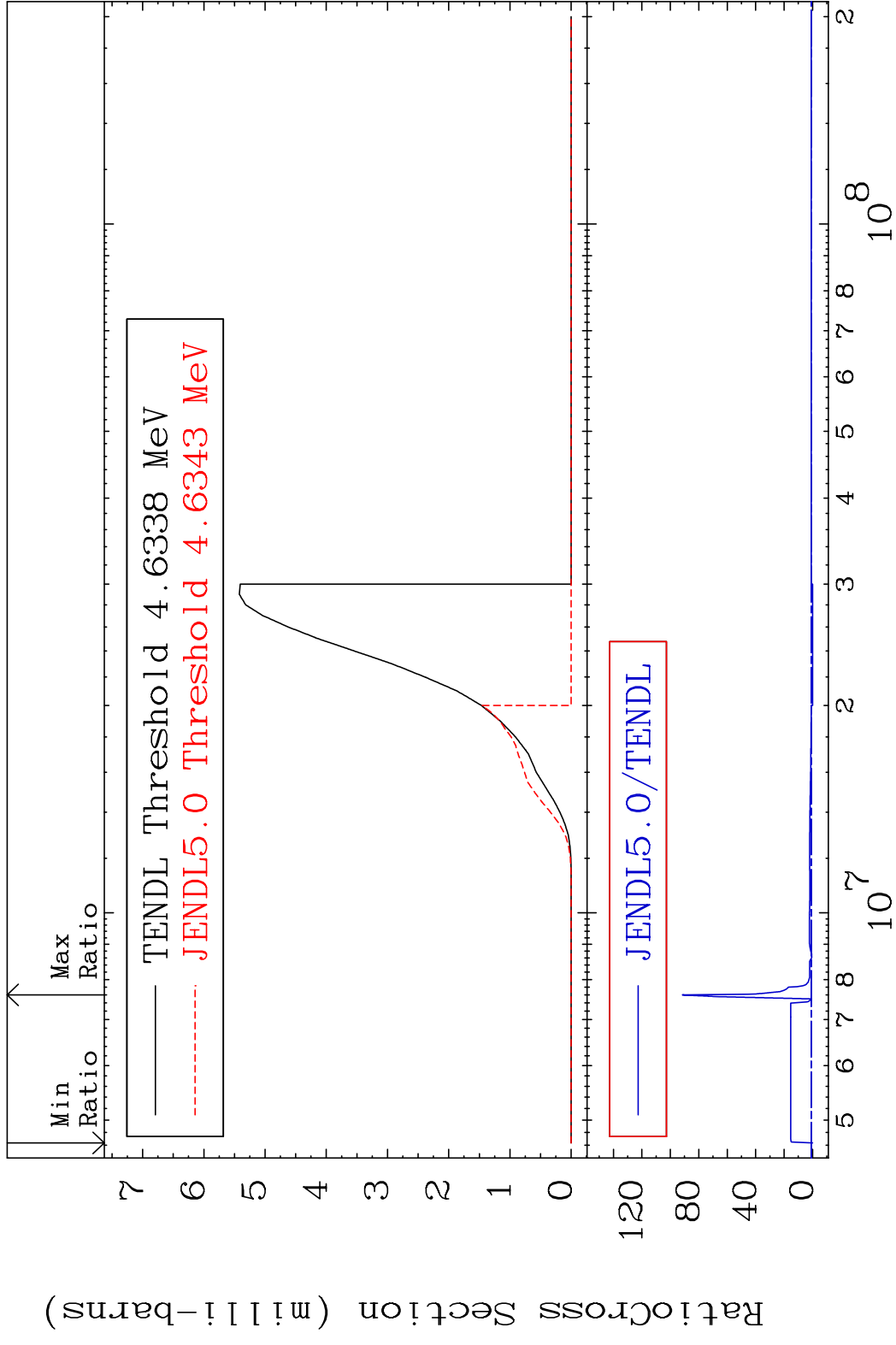
27-Co-58

MAT 2722

(n,p) α

27-Co-58

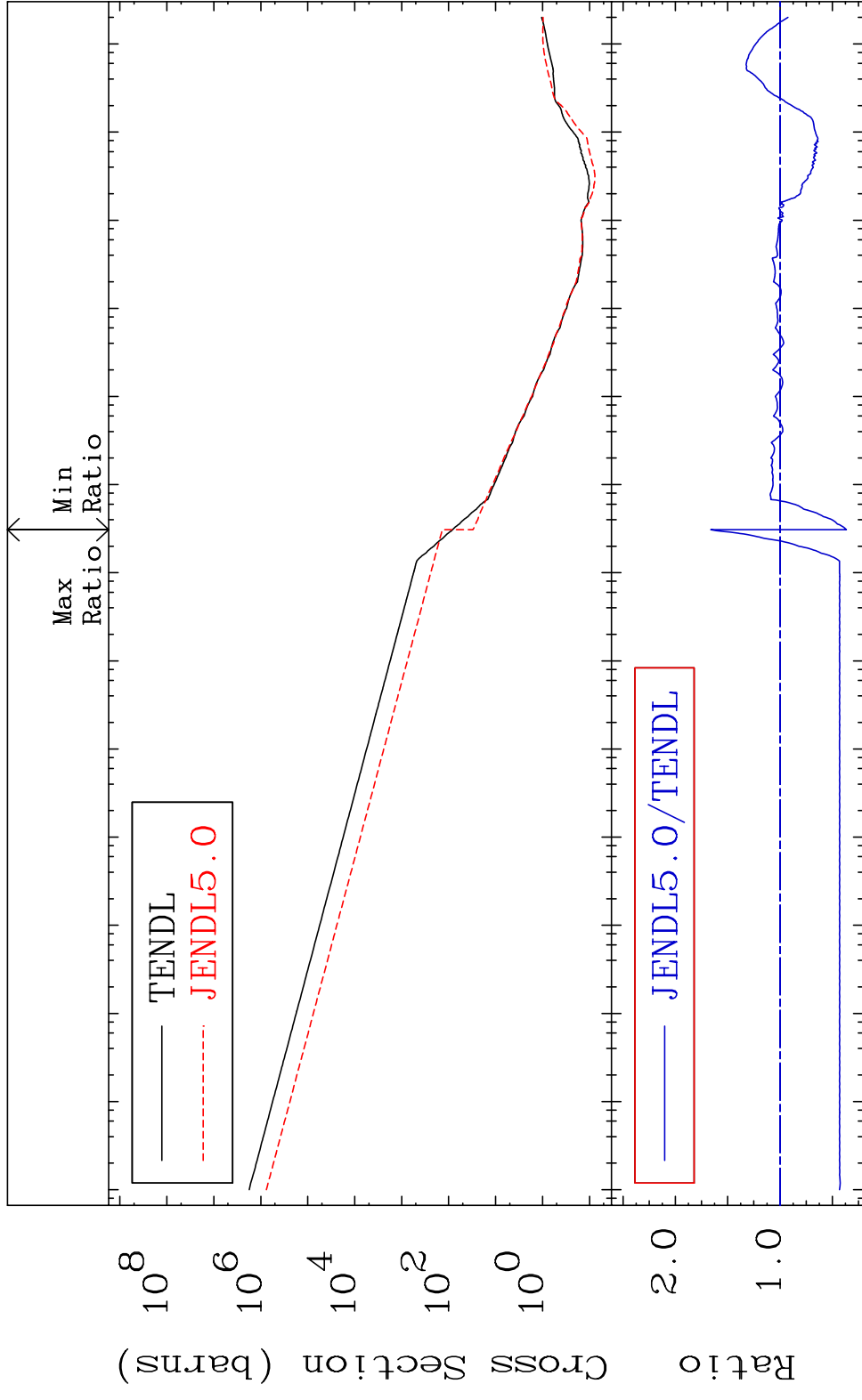
Cross Section -100.0 To 9054. %



MAT 2722

Hydrogen Production
Cross Section -63.35 To 66.20 %

27-Co-58



Cross Section (barns)

Ratio

10⁸ 10⁶ 10⁴ 10² 10⁰ 2.0 1.0

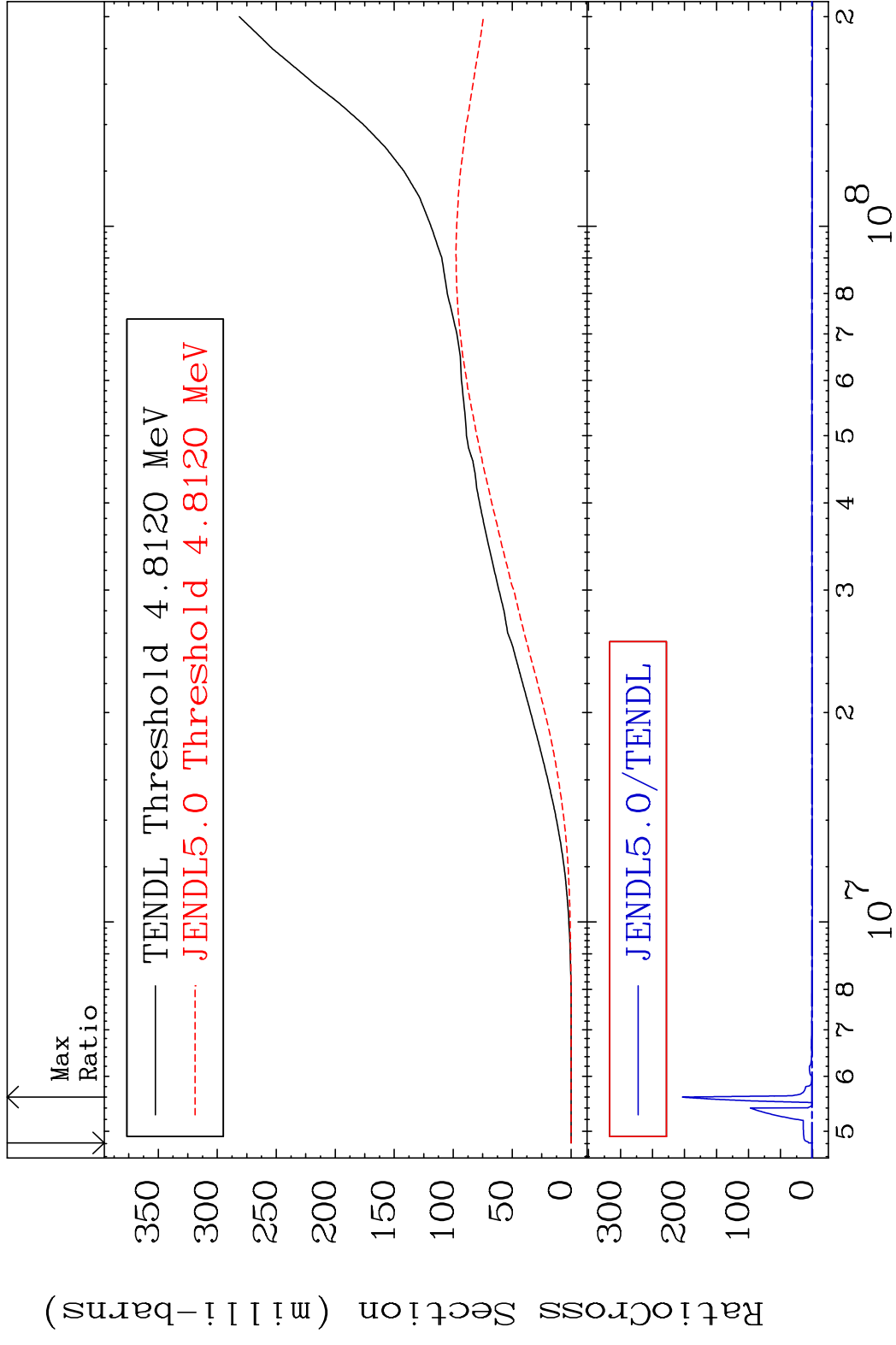
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

50

Incident Energy (eV)

27-Co-58

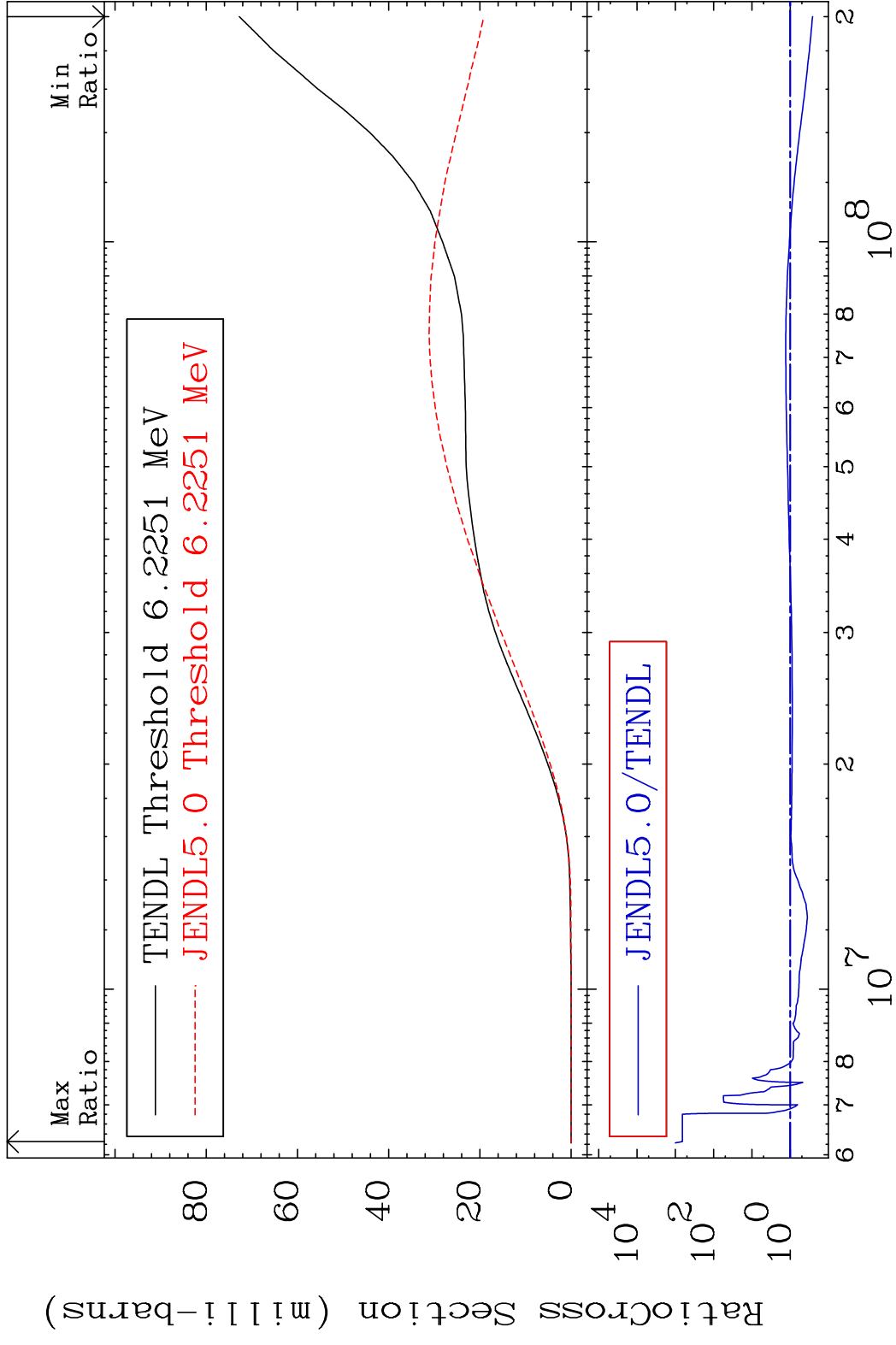
MAT 2722 Deuterium Production 27-Co-58
 Cross Section -100.0 To 9999. %



MAT 2722

Tritium Production 27-Co-58

Cross Section -73.64 To 9999. %

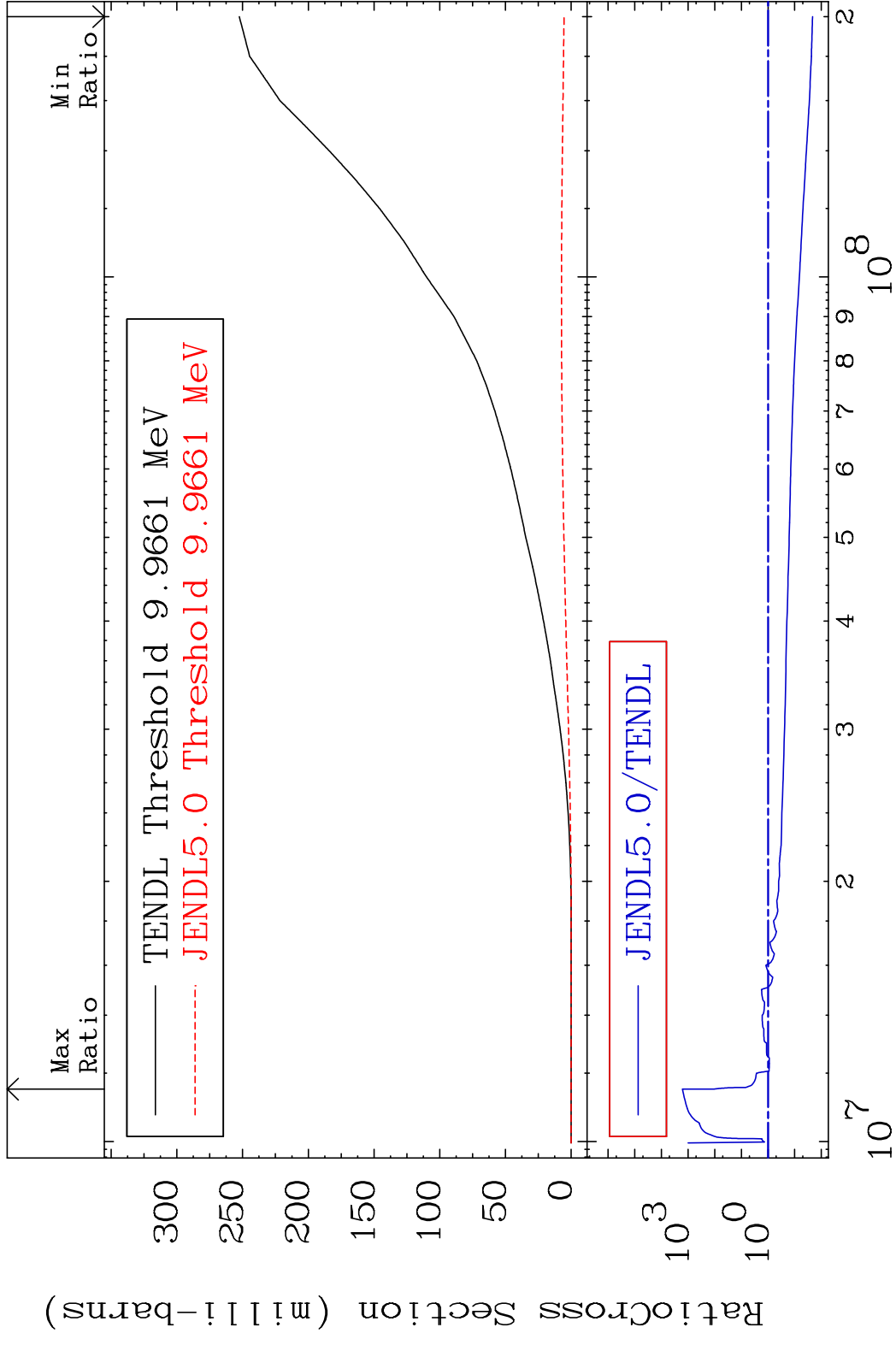


MAT 2722

He-3 Production

27-Co-58

Cross Section -97.86 To 9999. %



53

Incident Energy (eV)

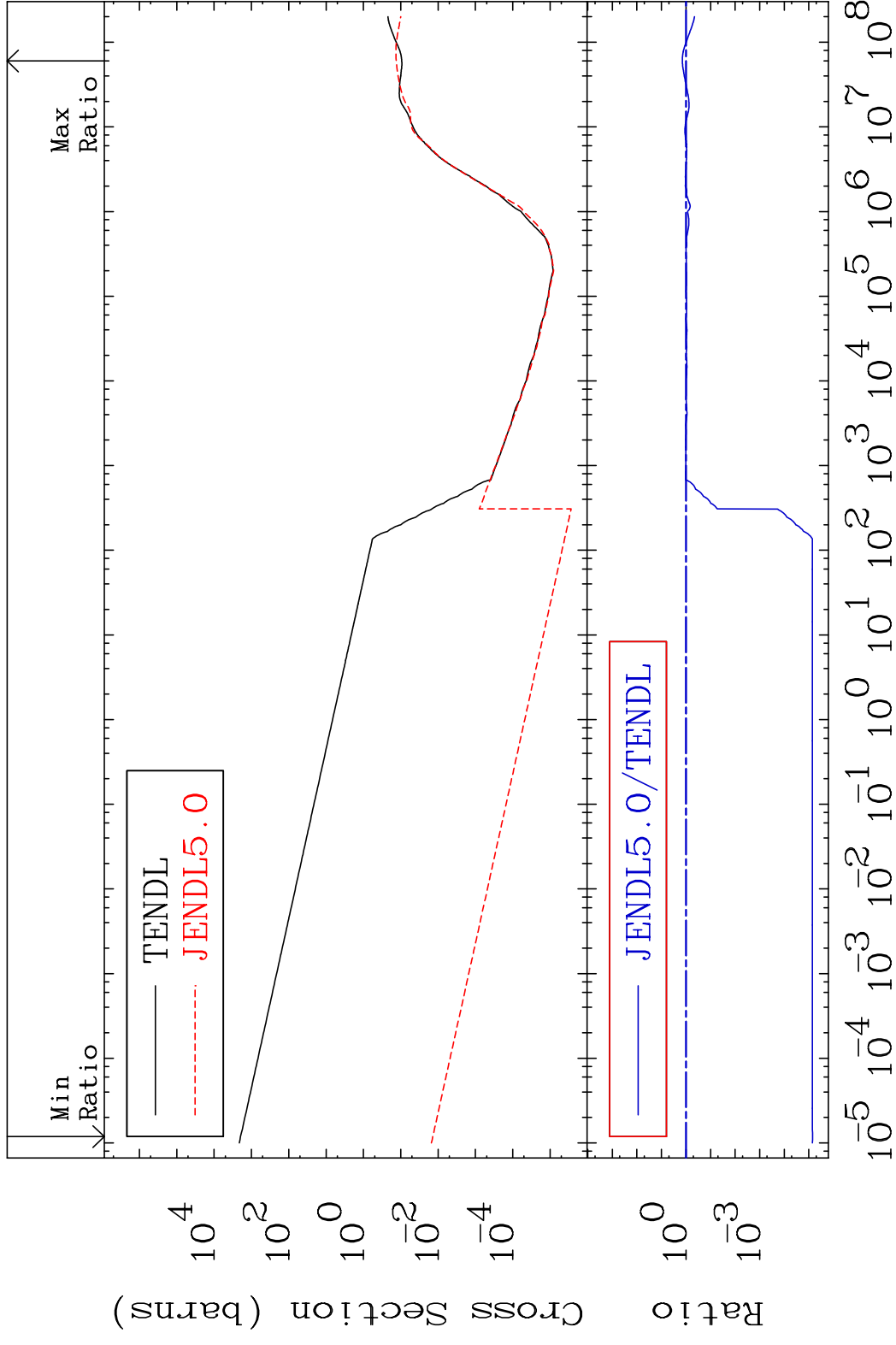
27-Co-58

MAT 2722

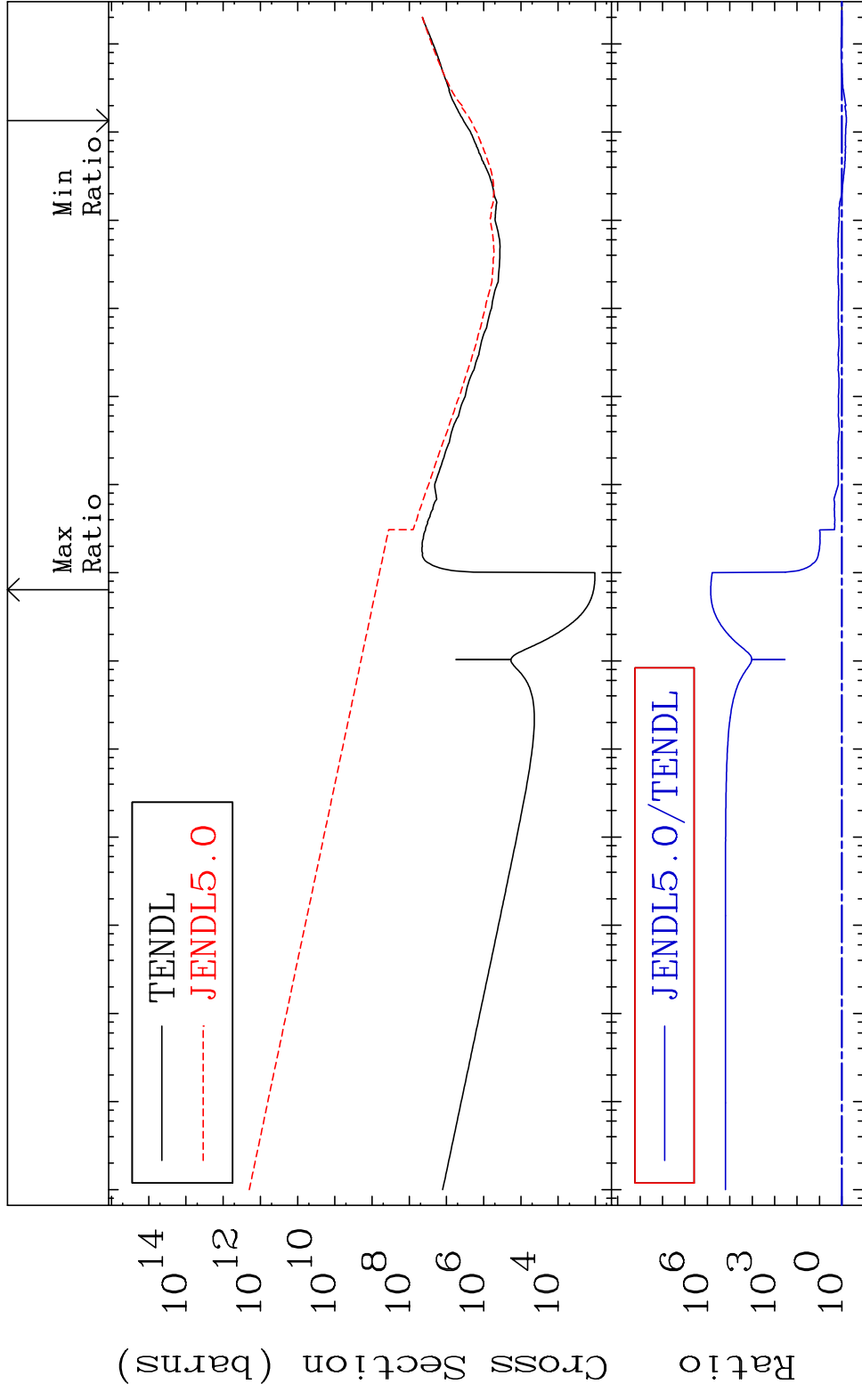
He-4 Production

27-Co-58

Cross Section -100.0 To 40.92 %



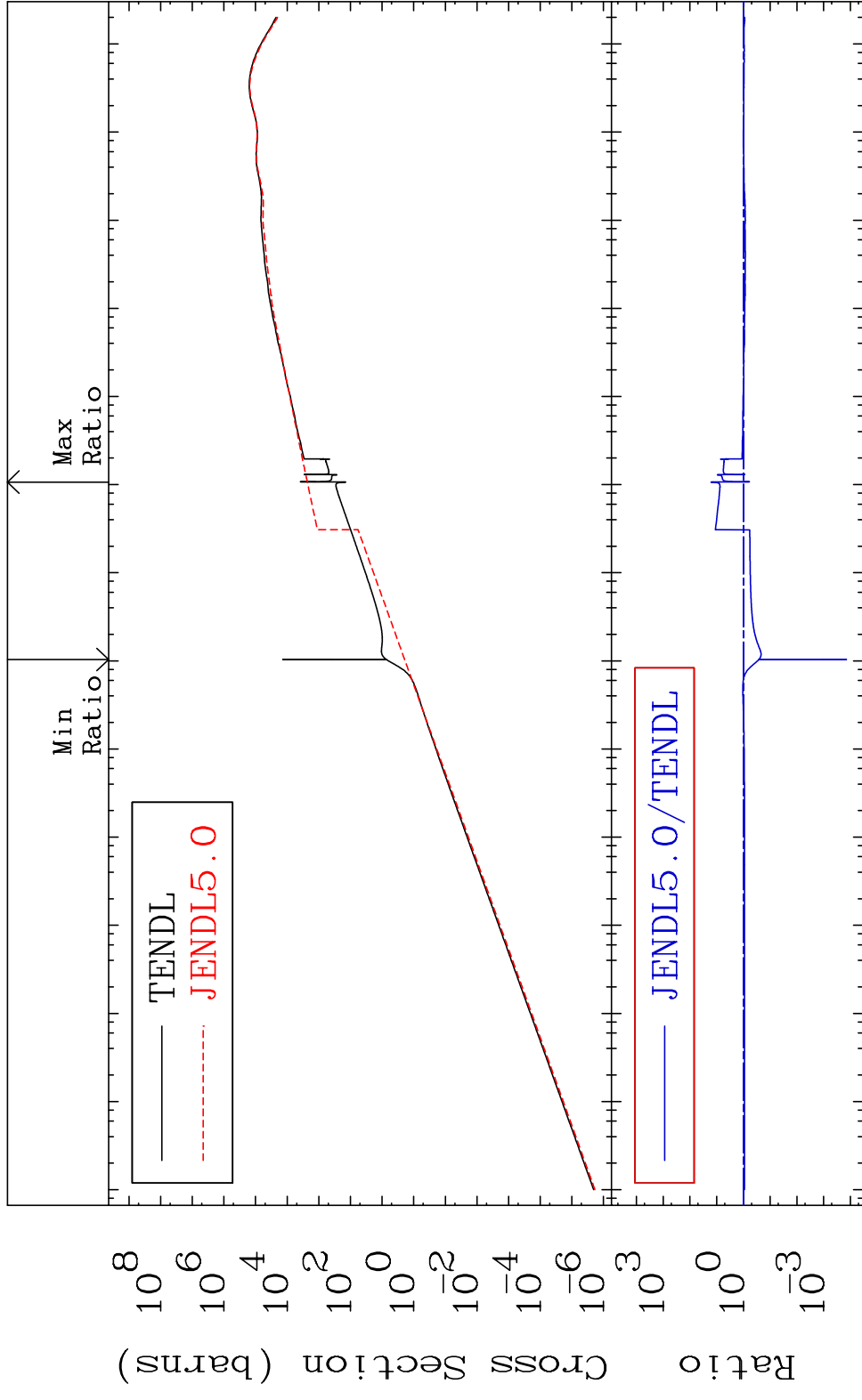
MAT 2722 Kerma total (eV-barns) 27-Co-58
 Cross Section -36.32 To 9999. %



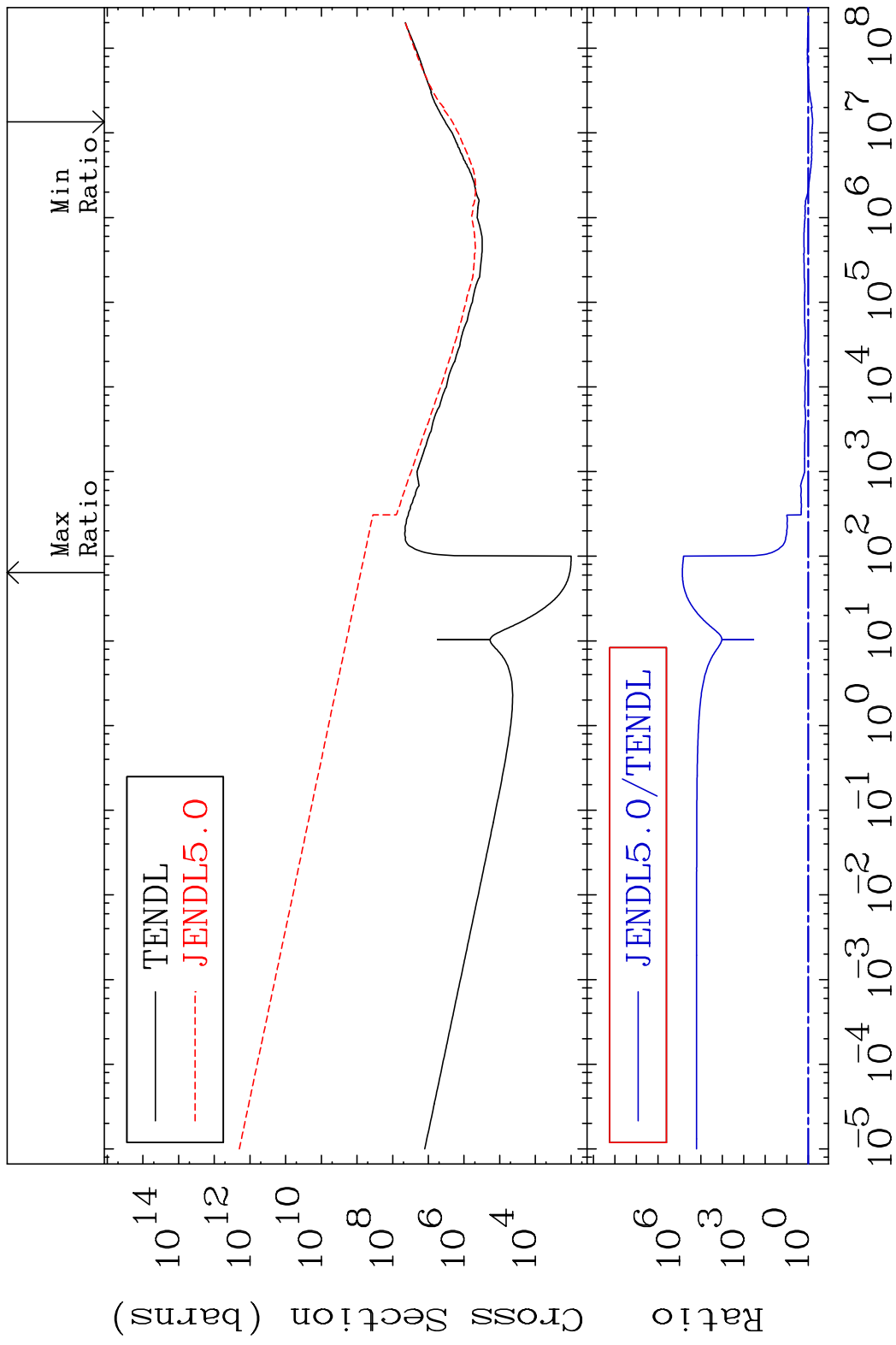
MAT 2722

Kerma elastic
Cross Section

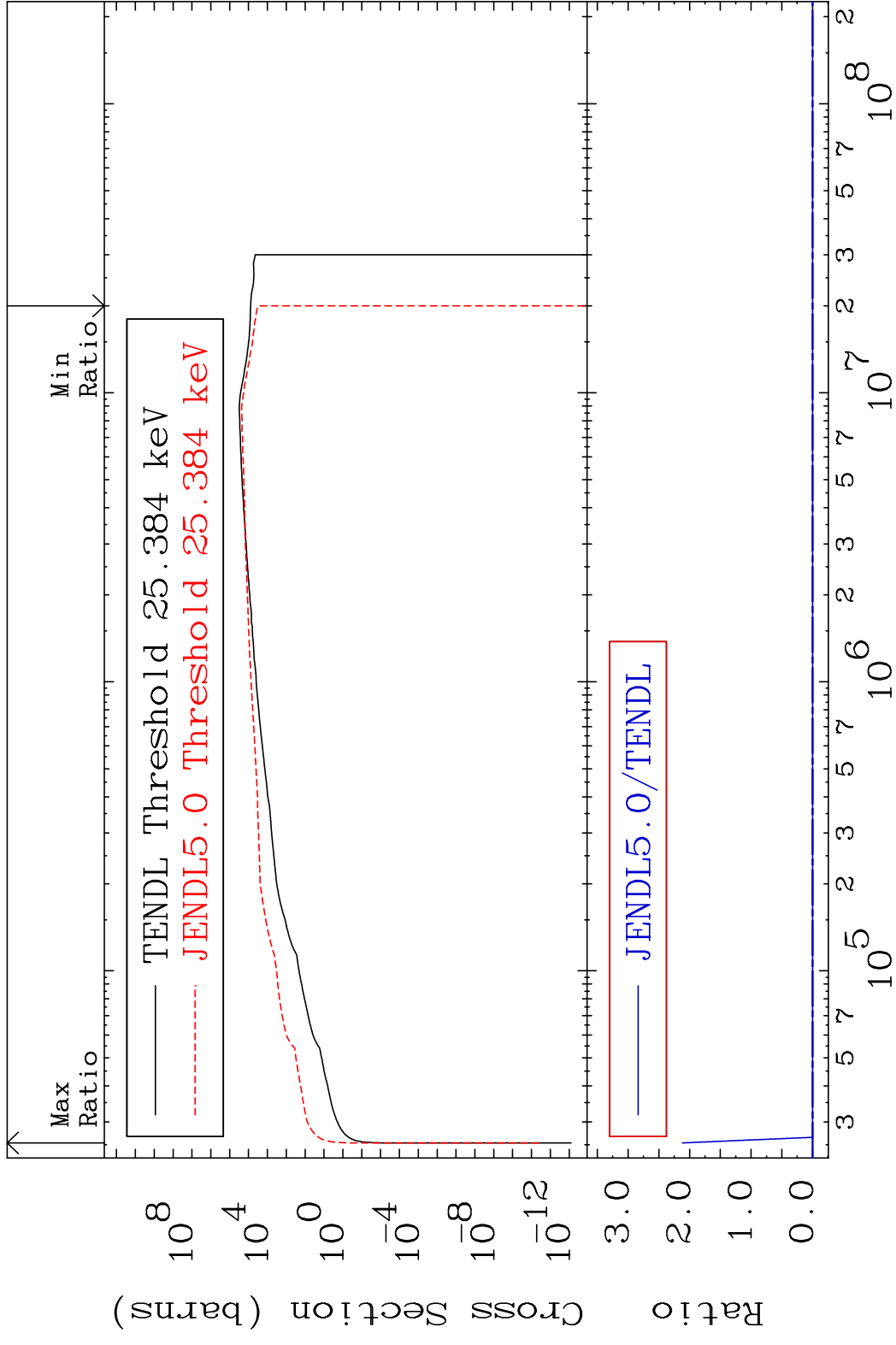
27-Co-58
-99.99 To 1575. %



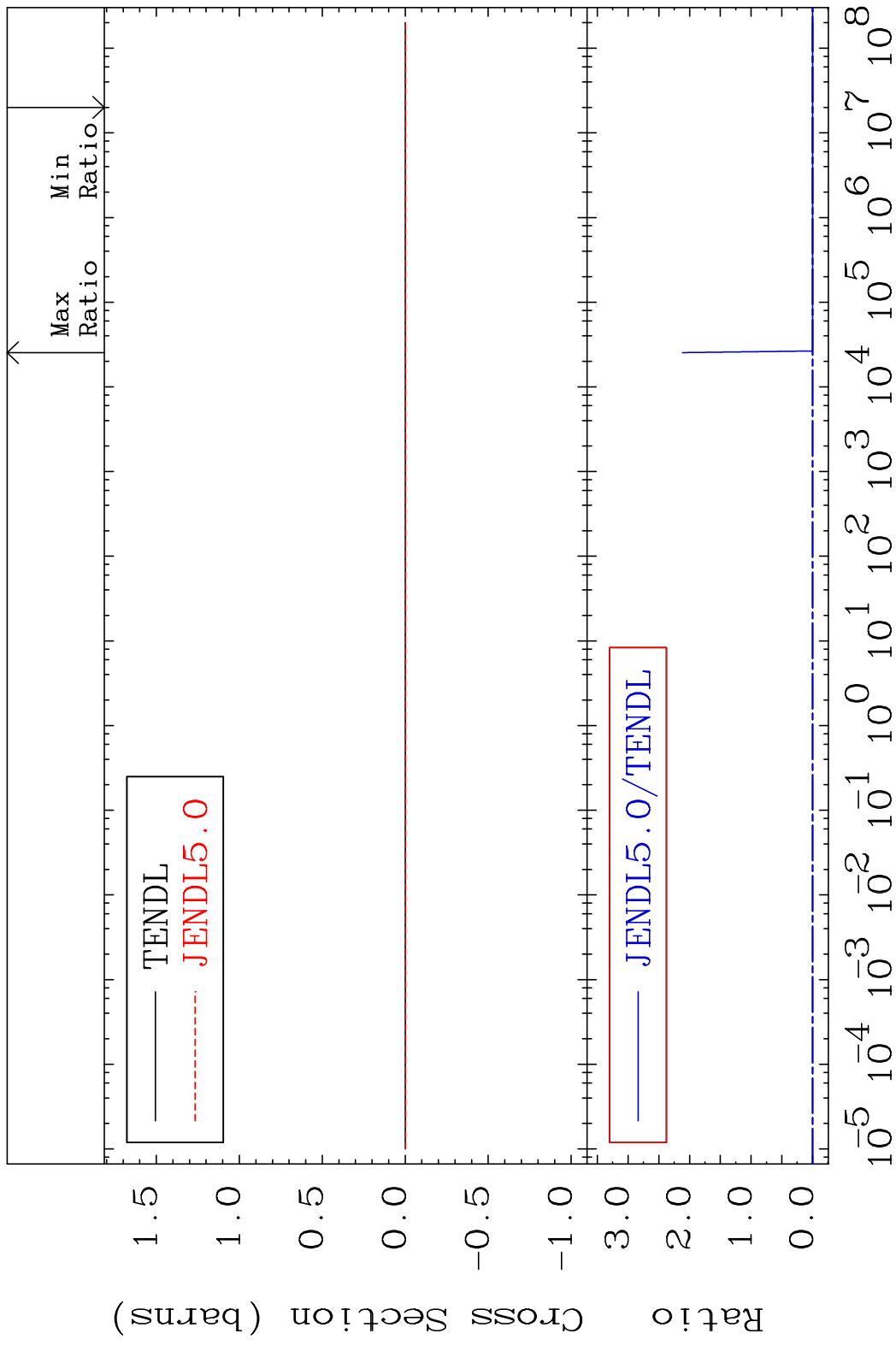
MAT 2722 Kerma non-elastic (all but mt2) 27-Co-58
 Cross Section -37.33 To 9999. %



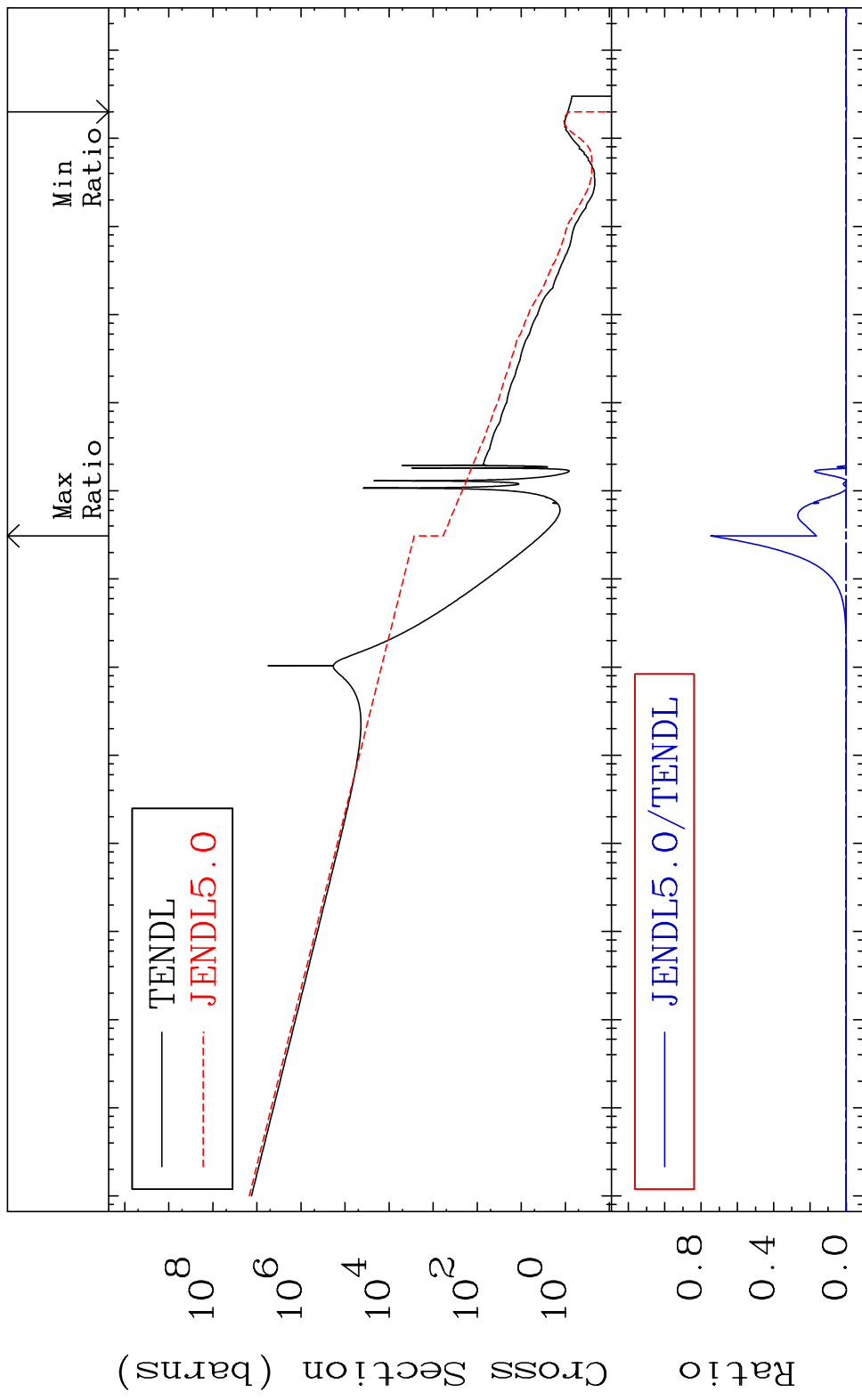
MAT 2722 Kerma inelastic (mt51-91) 27-Co-58
 Cross Section -100.0 To 9999. %



MAT 2722 Kerma fission (mt18 or mt19-20-21-38) 27-Co-58
 Cross Section -100.0 To 9999. %

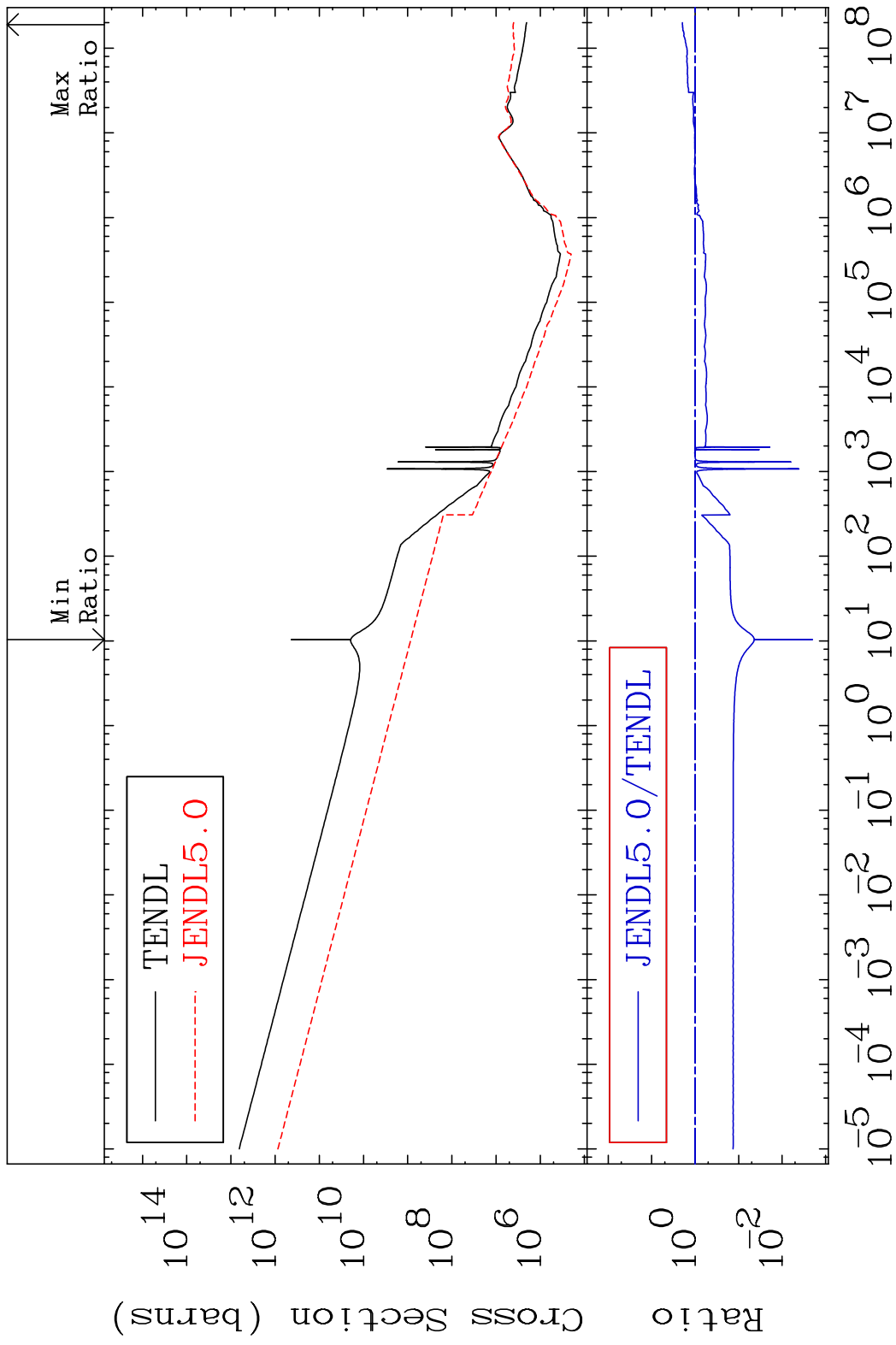


MAT 2722 Kerma capture (mt102) 27-Co-58
 Cross Section -100.0 To 9999. %

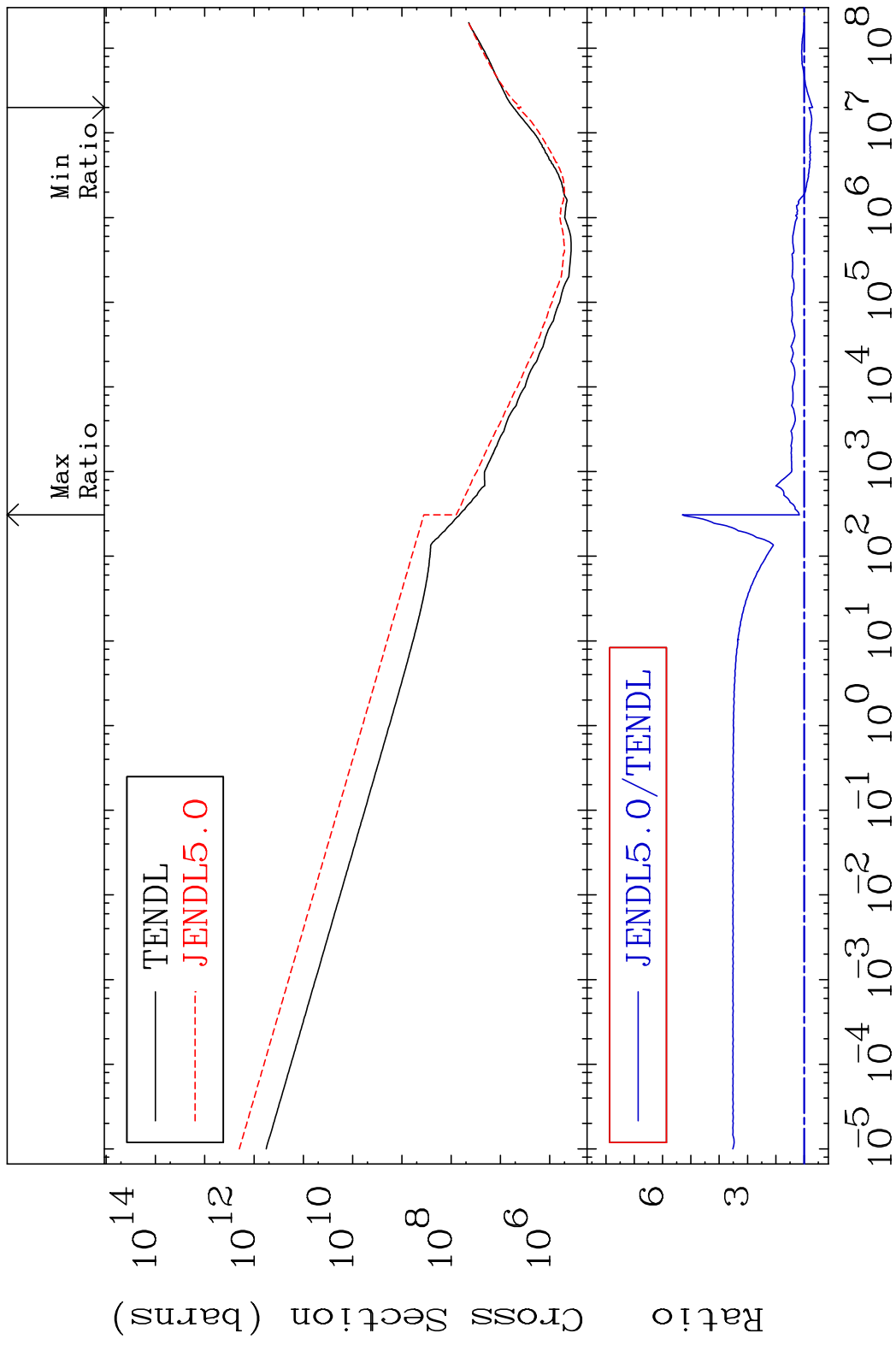


60 Incident Energy (eV) 27-Co-58

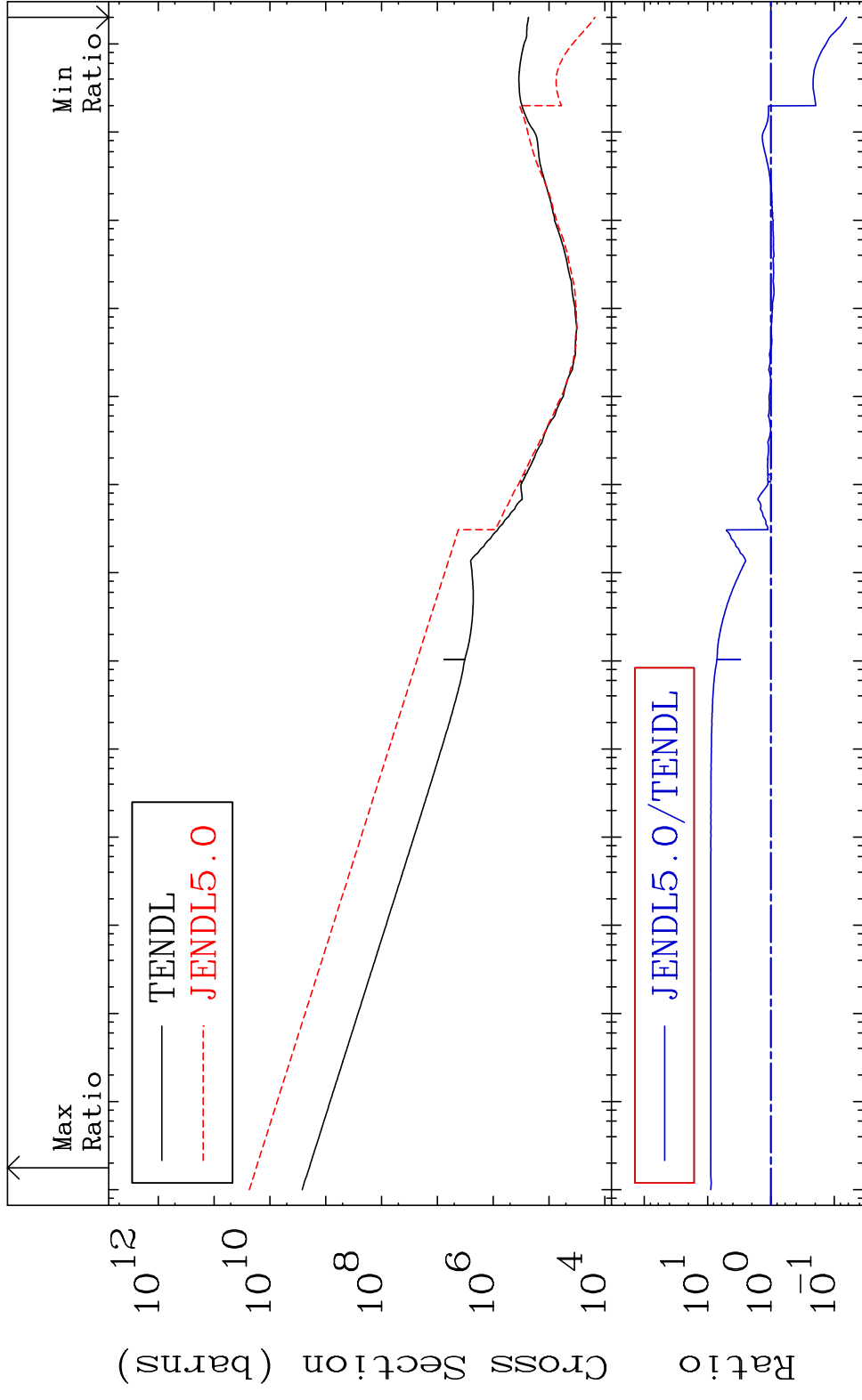
MAT 2722 Total photon (eV-barns) 27-Co-58
 Cross Section -99.80 To 97.10 %



MAT 2722 Total kinematic kerma (high limit) 27-Co-58
 Cross Section -29.81 To 430.2 %



MAT 2722 Dpa total (eV-barns) 27-Co-58
 Cross Section -93.54 To 791.6 %

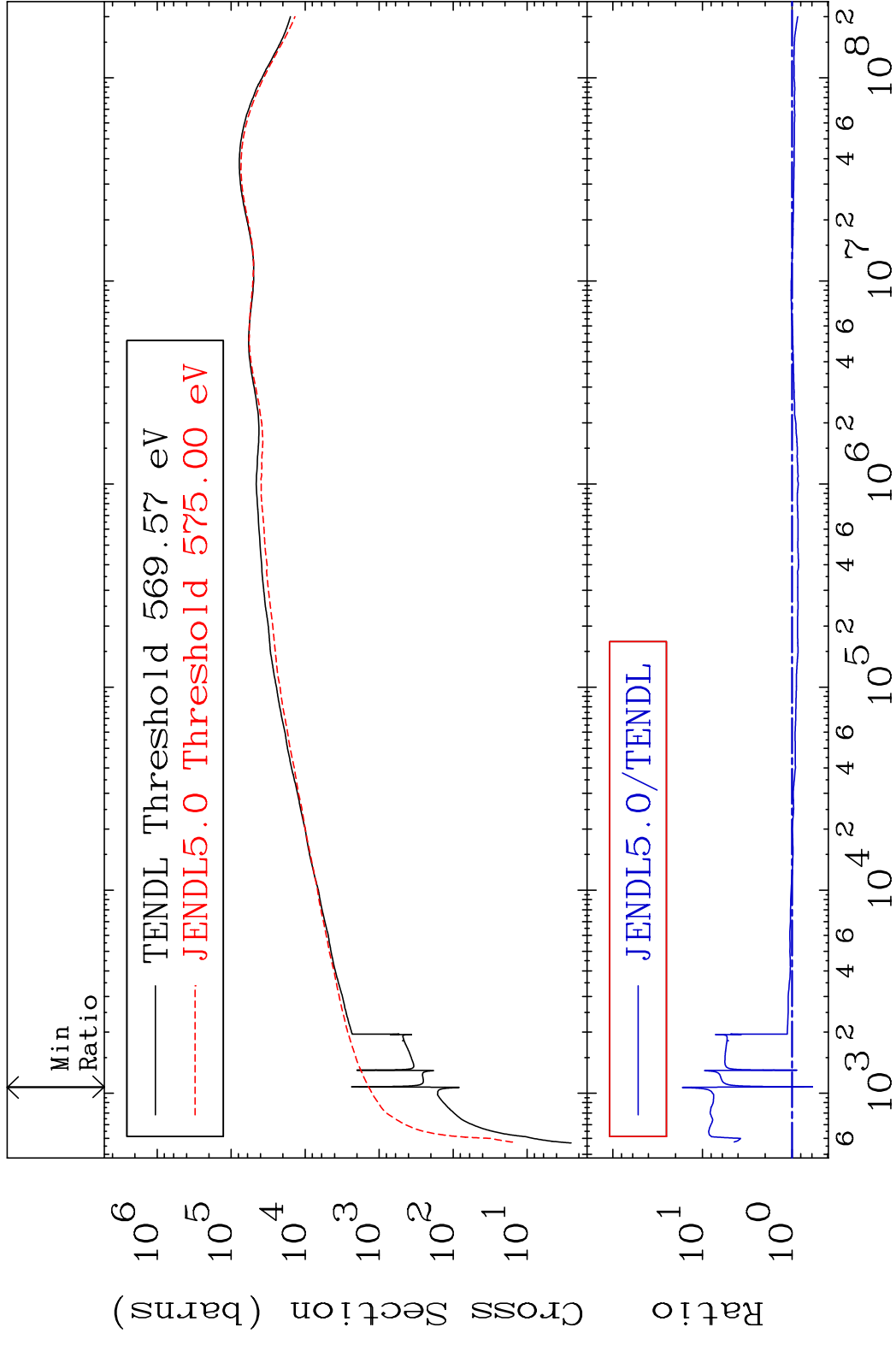


MAT 2722

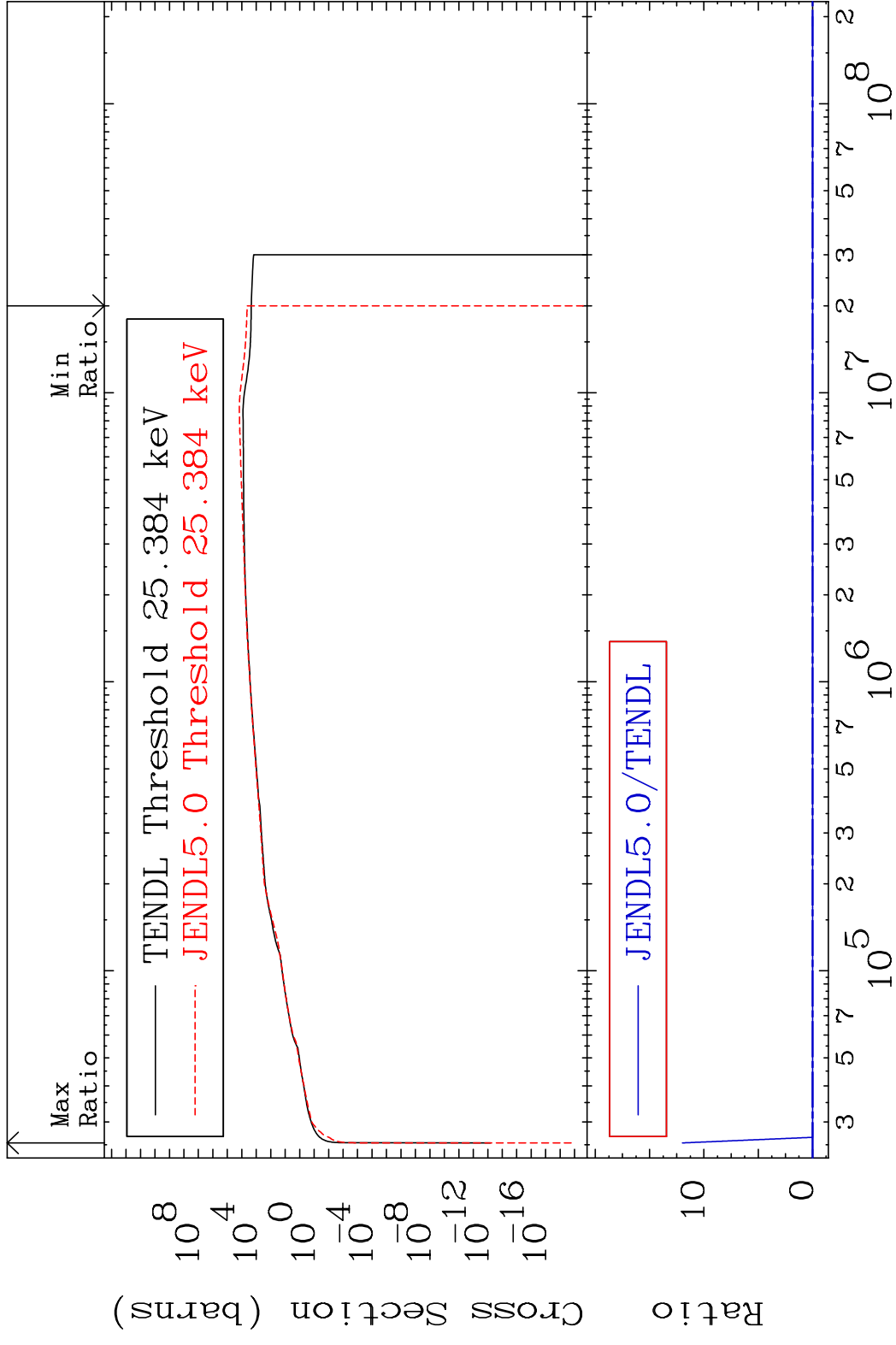
Dpa elastic (mt2)

27-Co-58

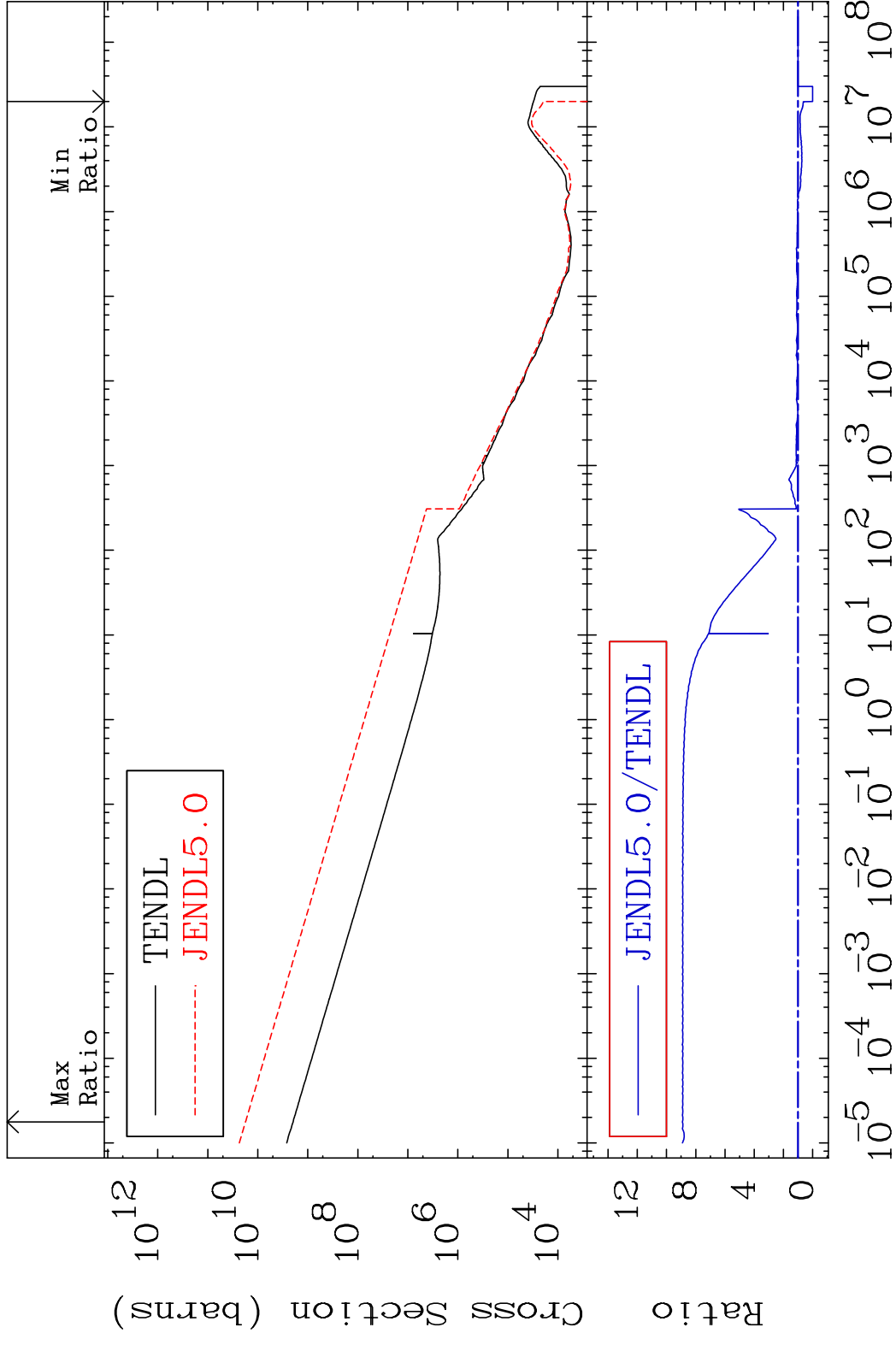
Cross Section -40.95 To 1575. %

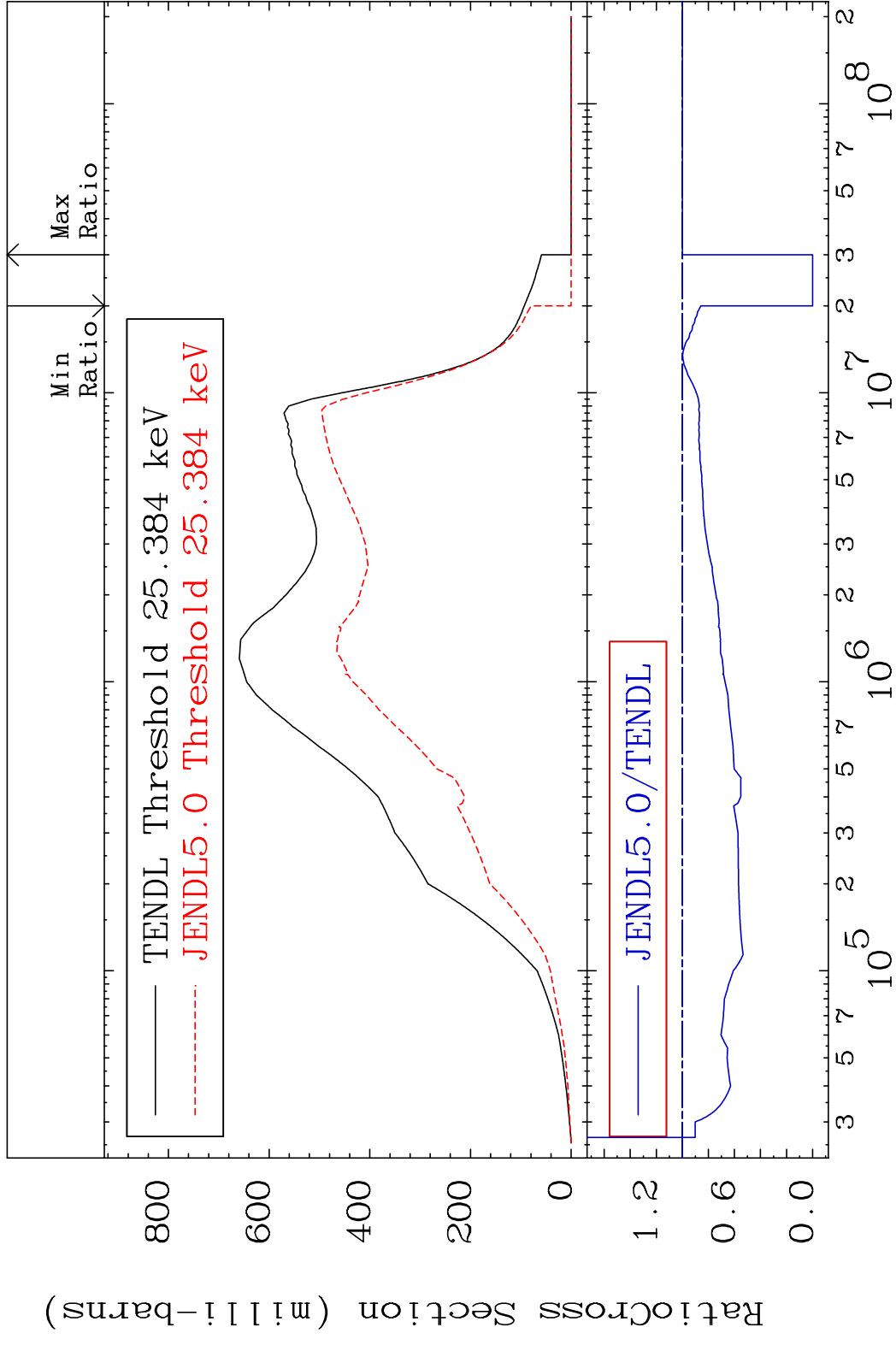


MAT 2722 Dpa inelastic (mt51-91) 27-Co-58
 Cross Section -100.0 To 9999. %

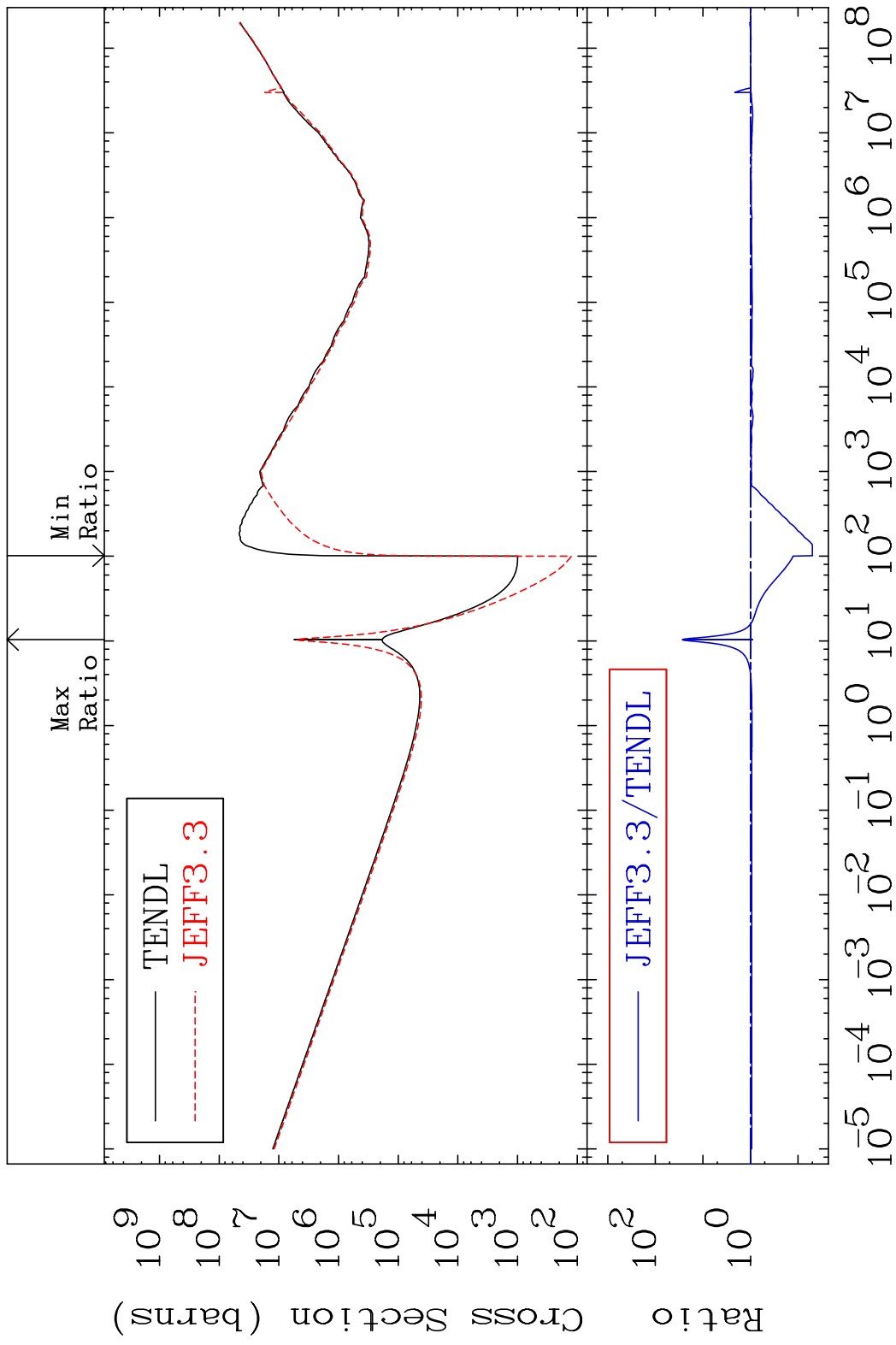


MAT 2722 Dpa disappearance (mt102 -120) 27-Co-58
 Cross Section -100.0 To 791.6 %

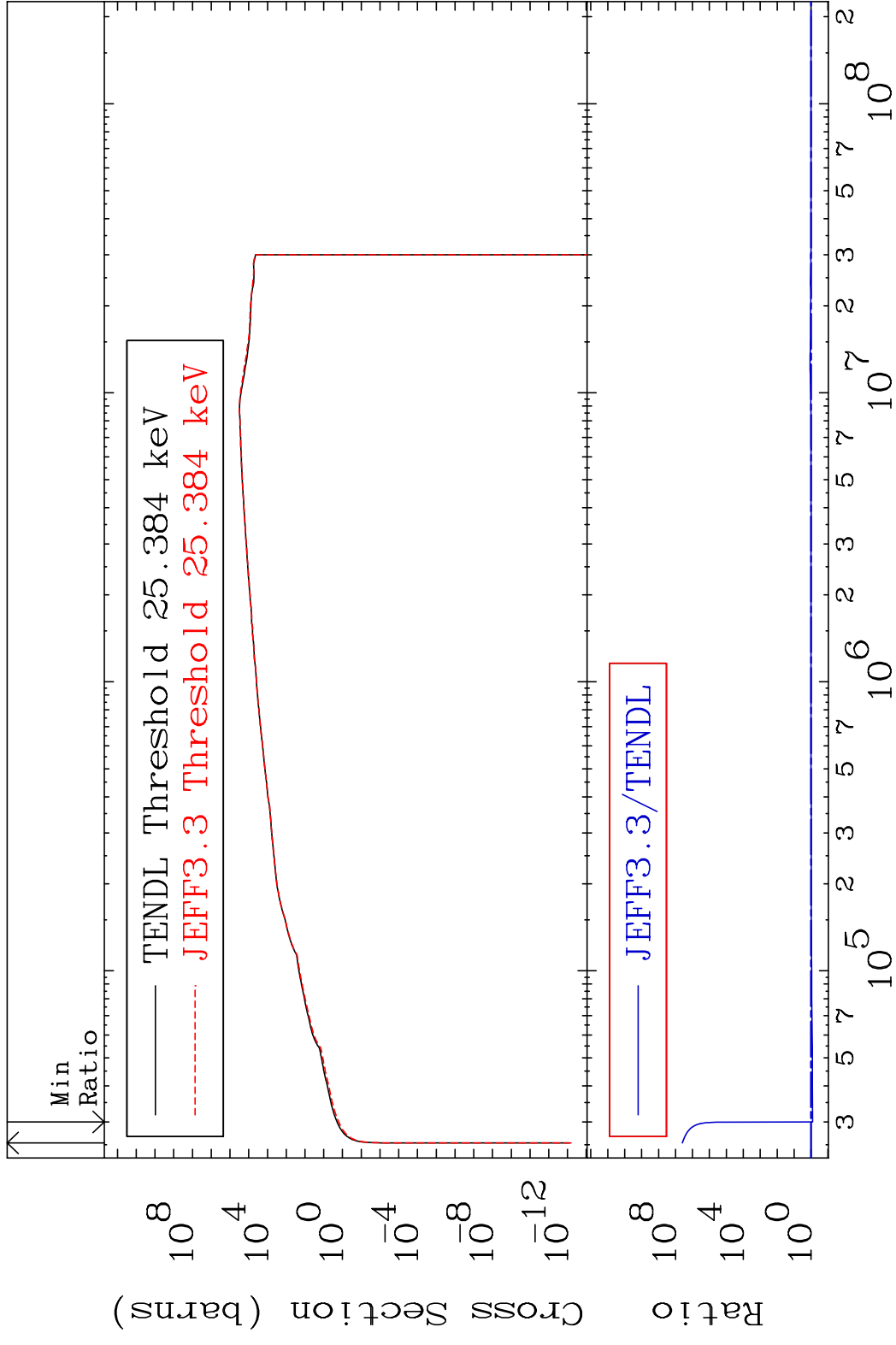




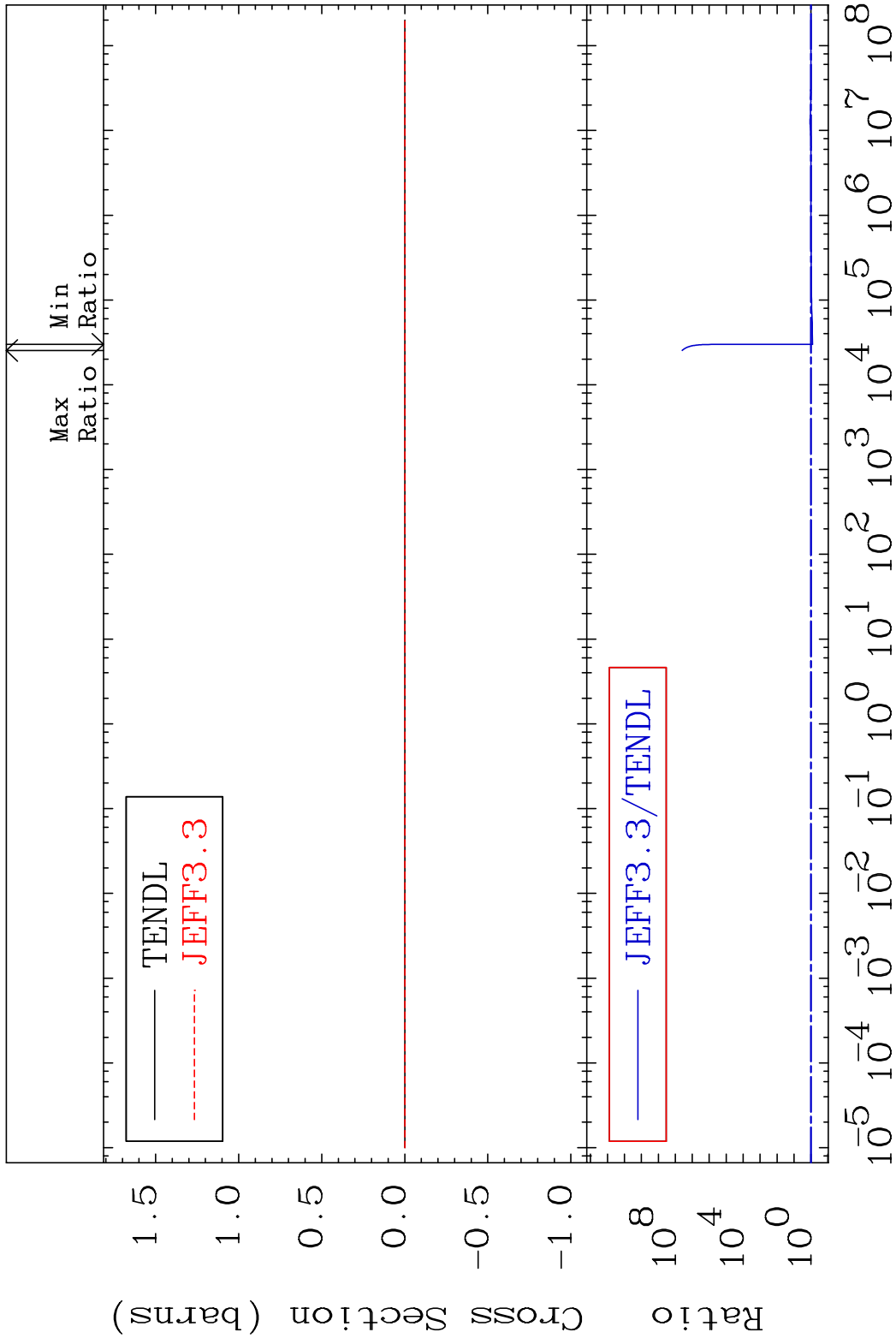
MAT 2722 Kerma non-elastic (all but mt2) 27-Co-58
 Cross Section -95.04 To 2604. %



MAT 2722 Kerma inelastic (mt51-91) 27-Co-58
 Cross Section -18.55 To 9999. %



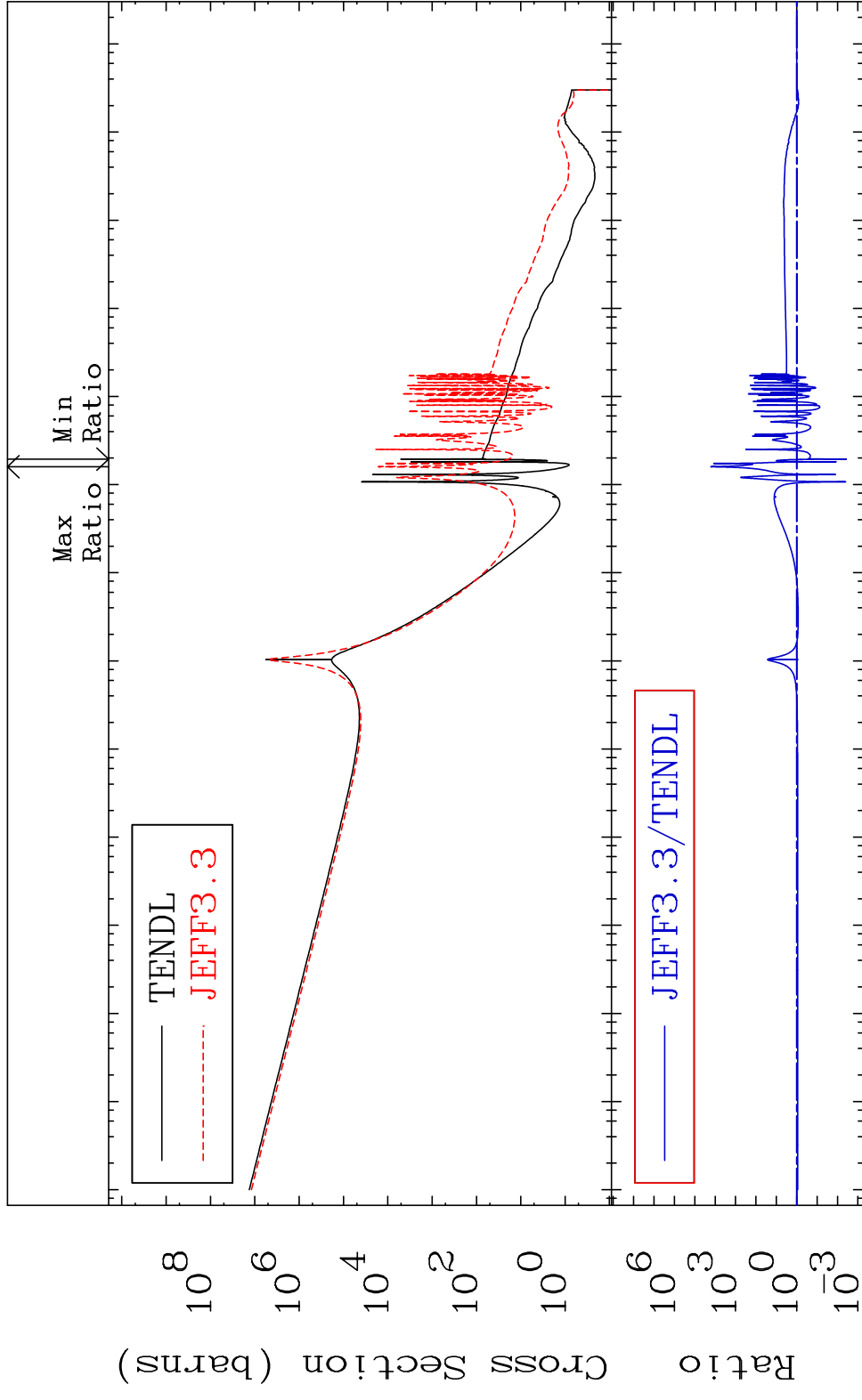
MAT 2722 Kerma fission (mt18 or mt19-20-21-38) 27-Co-58
 Cross Section -18.55 To 9999. %



MAT 2722

Kerma capture (mt102) 27-Co-58

Cross Section -99.63 To 9999. %

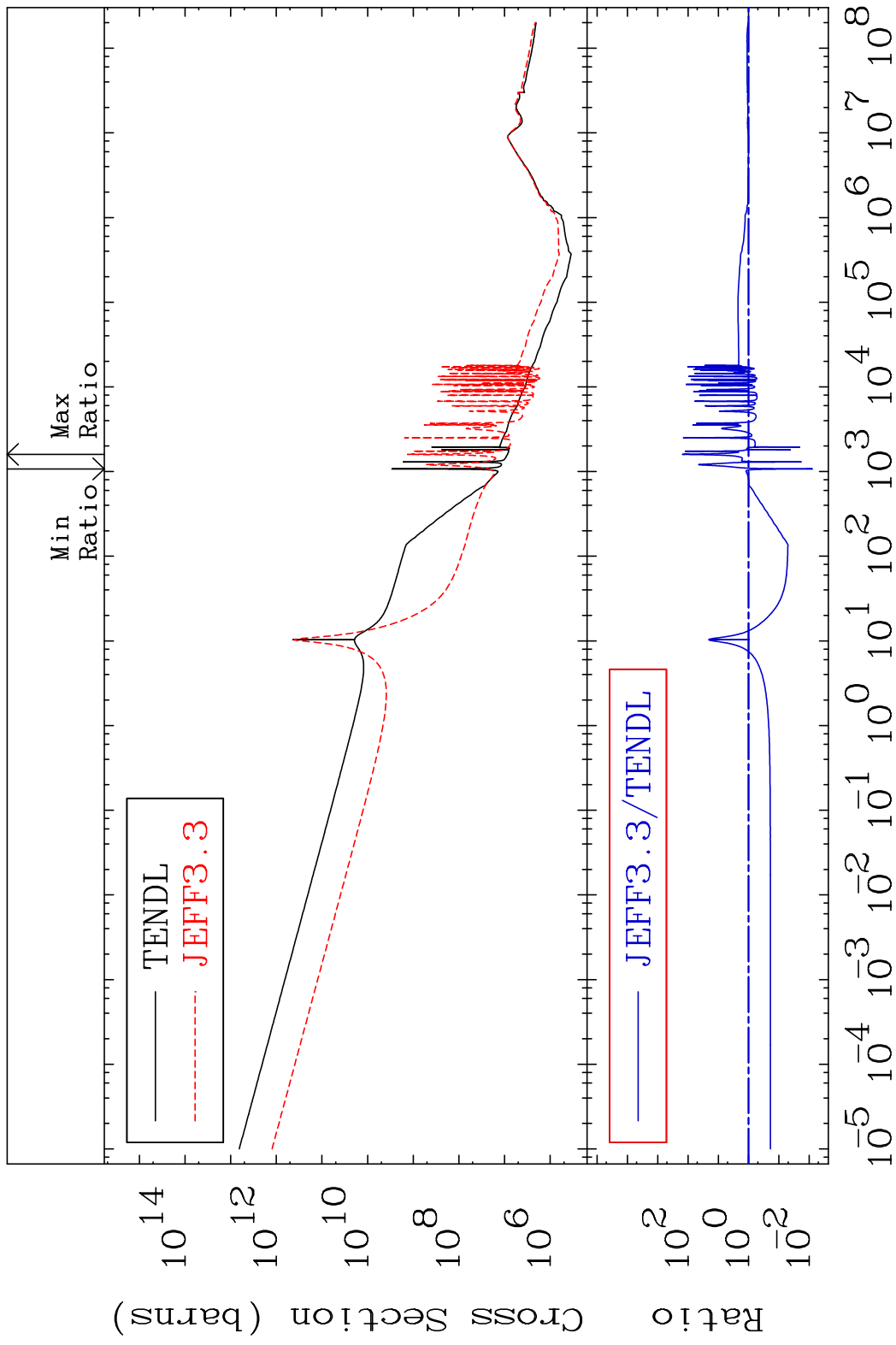


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Incident Energy (eV)

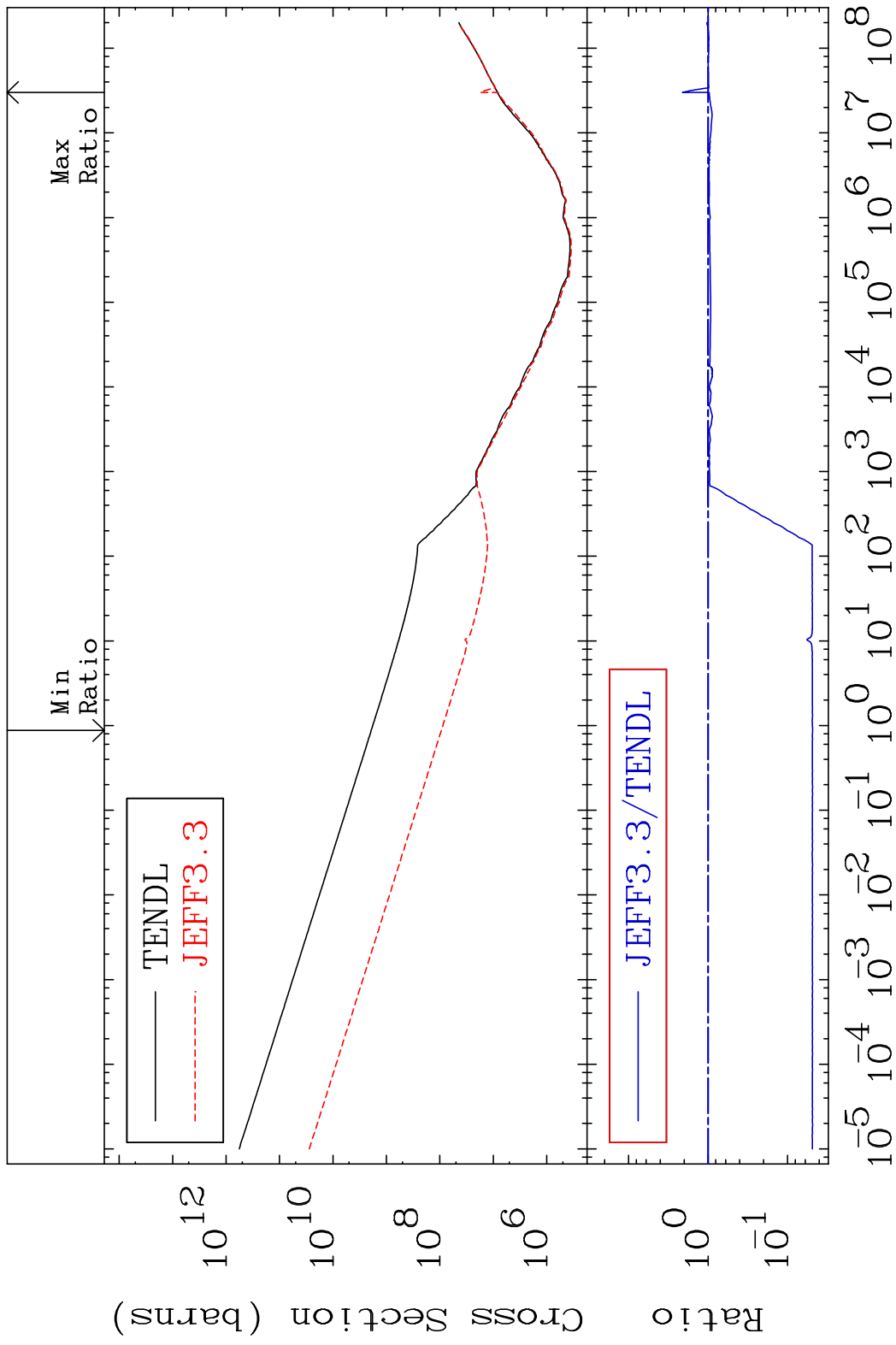
27-Co-58

MAT 2722 Total photon (eV-barns) 27-Co-58
 Cross Section -99.22 To 9999. %



72 Incident Energy (eV) 27-Co-58

MAT 2722 Total kinematic kerma (high limit) 27-Co-58
 Cross Section -95.14 To 110.5 %

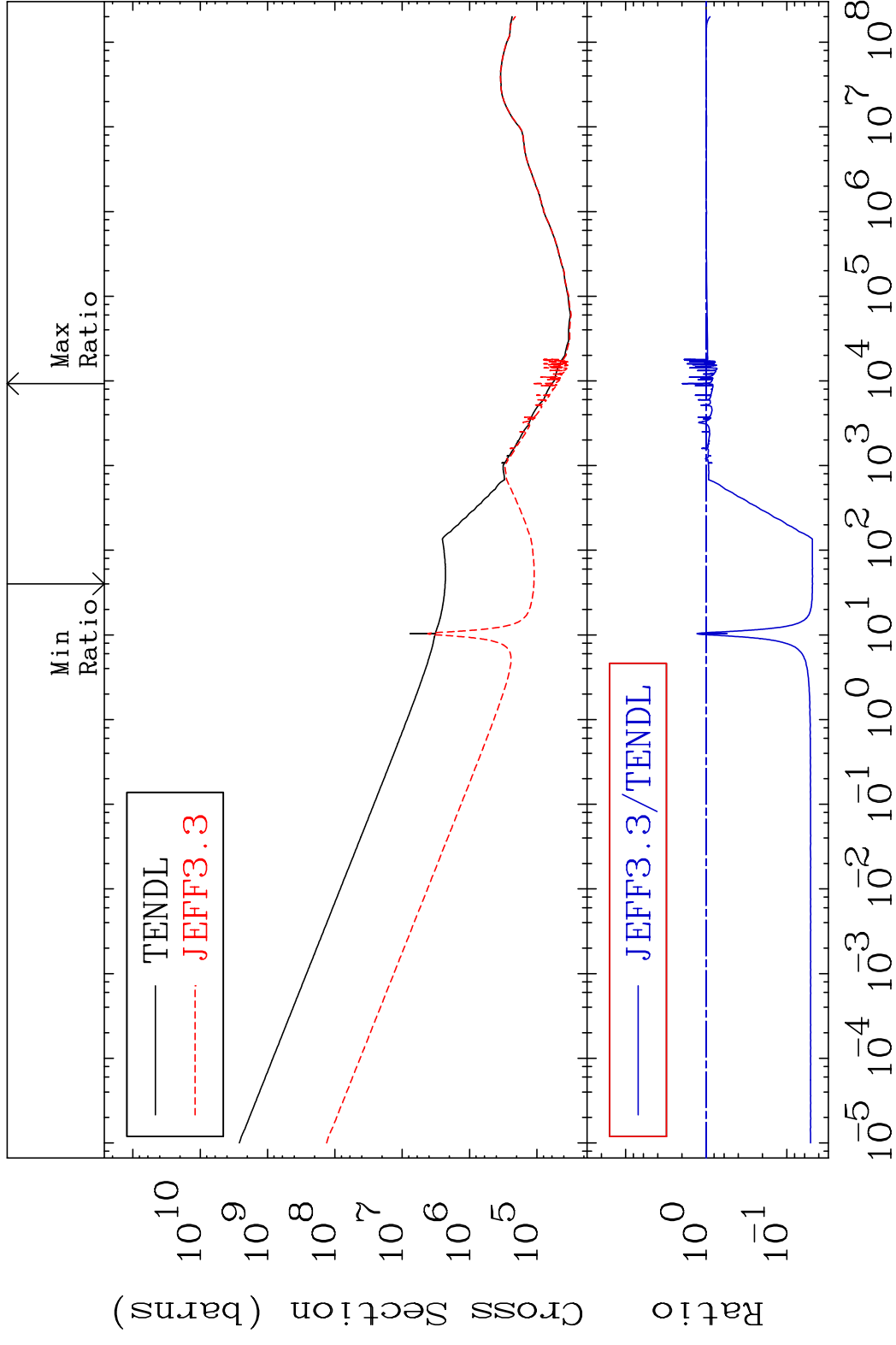


MAT 2722

Dpa total (eV-barns)

27-Co-58

Cross Section -95.21 To 97.71 %

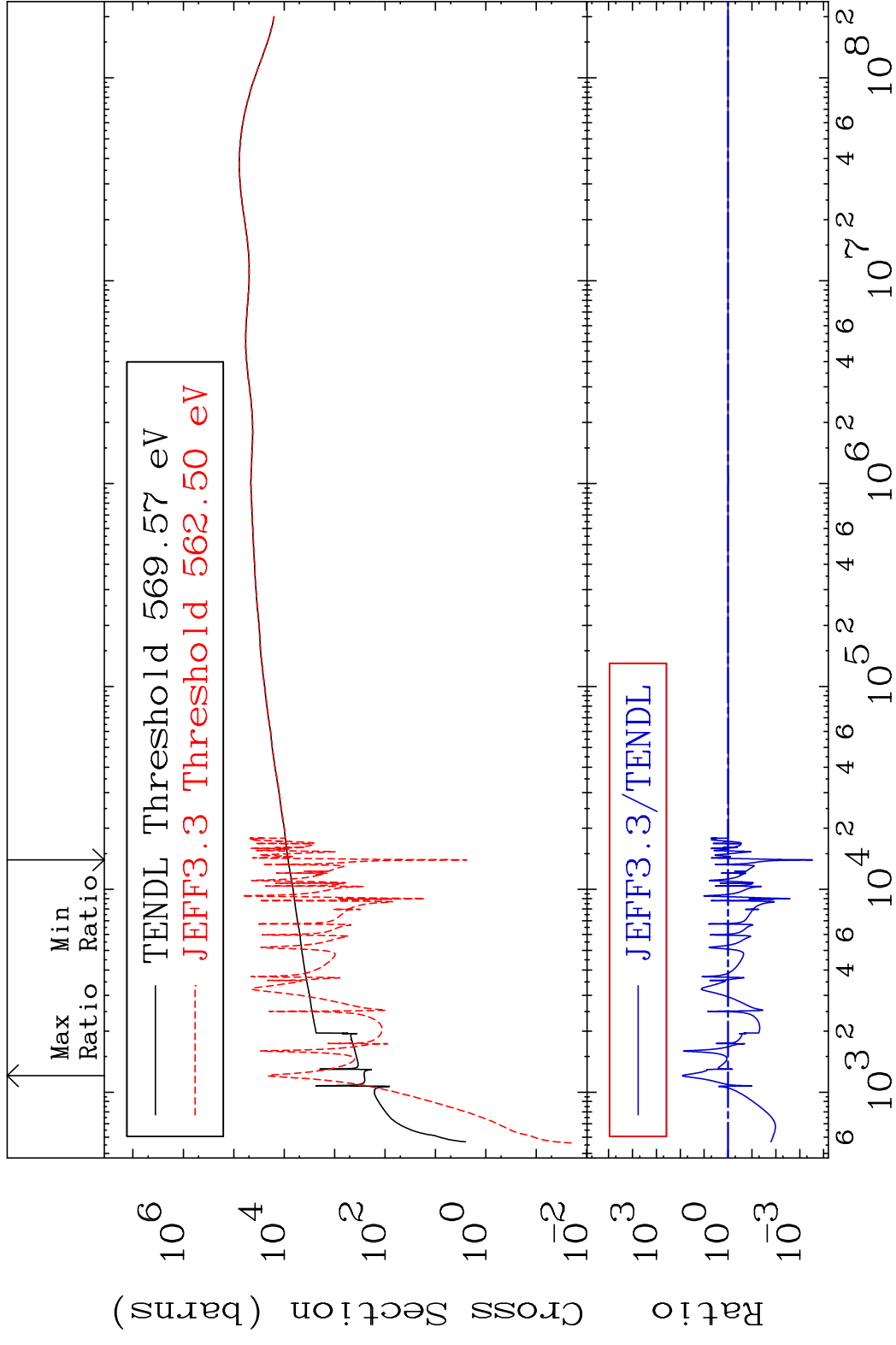


MAT 2722

Dpa elastic (mt2)

27-Co-58

Cross Section -99.97 To 8057. %



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Incident Energy (eV)

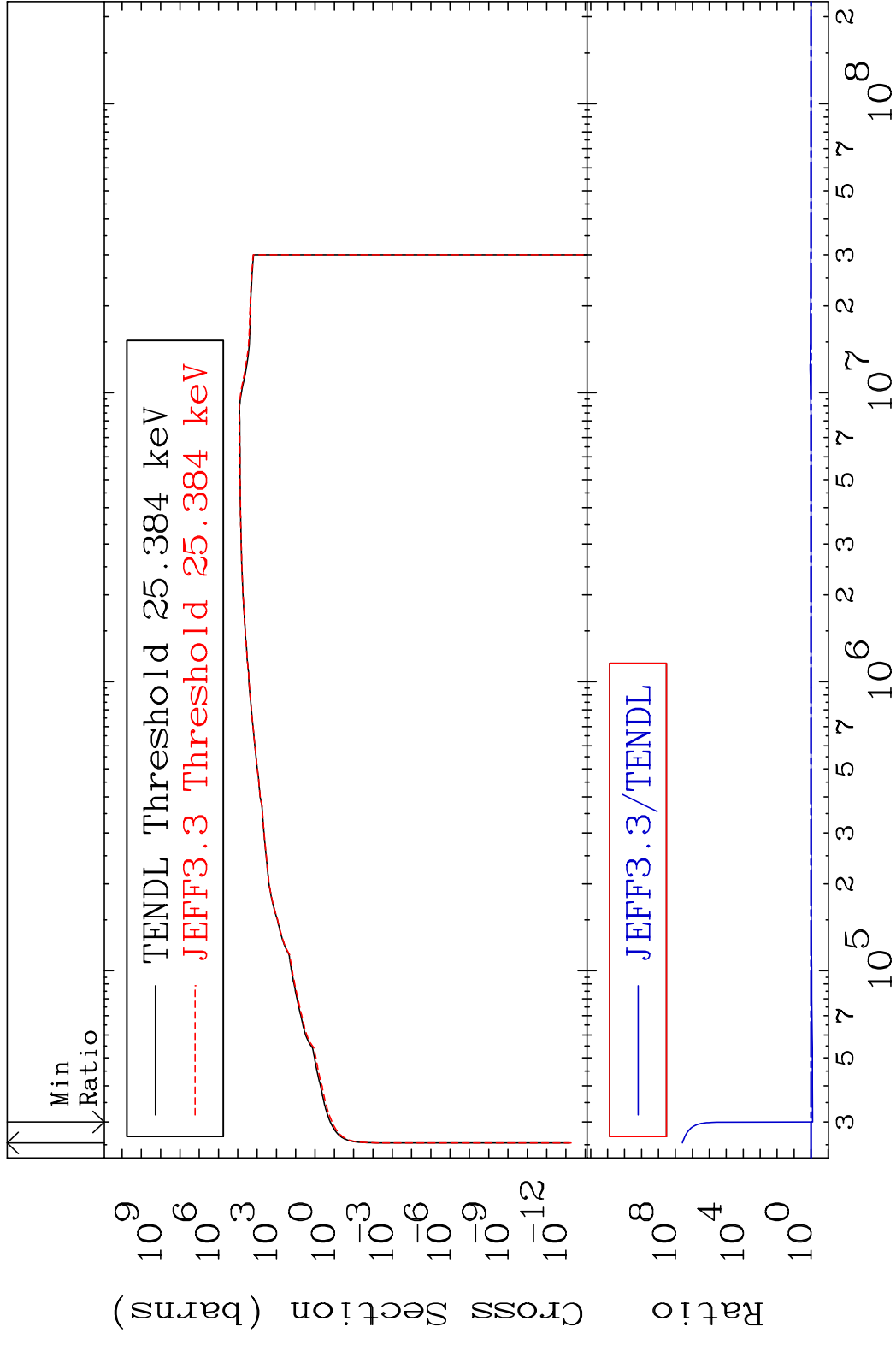
27-Co-58

MAT 2722

Dpa inelastic (mt51-91)

27-Co-58

Cross Section -18.54 To 9999. %

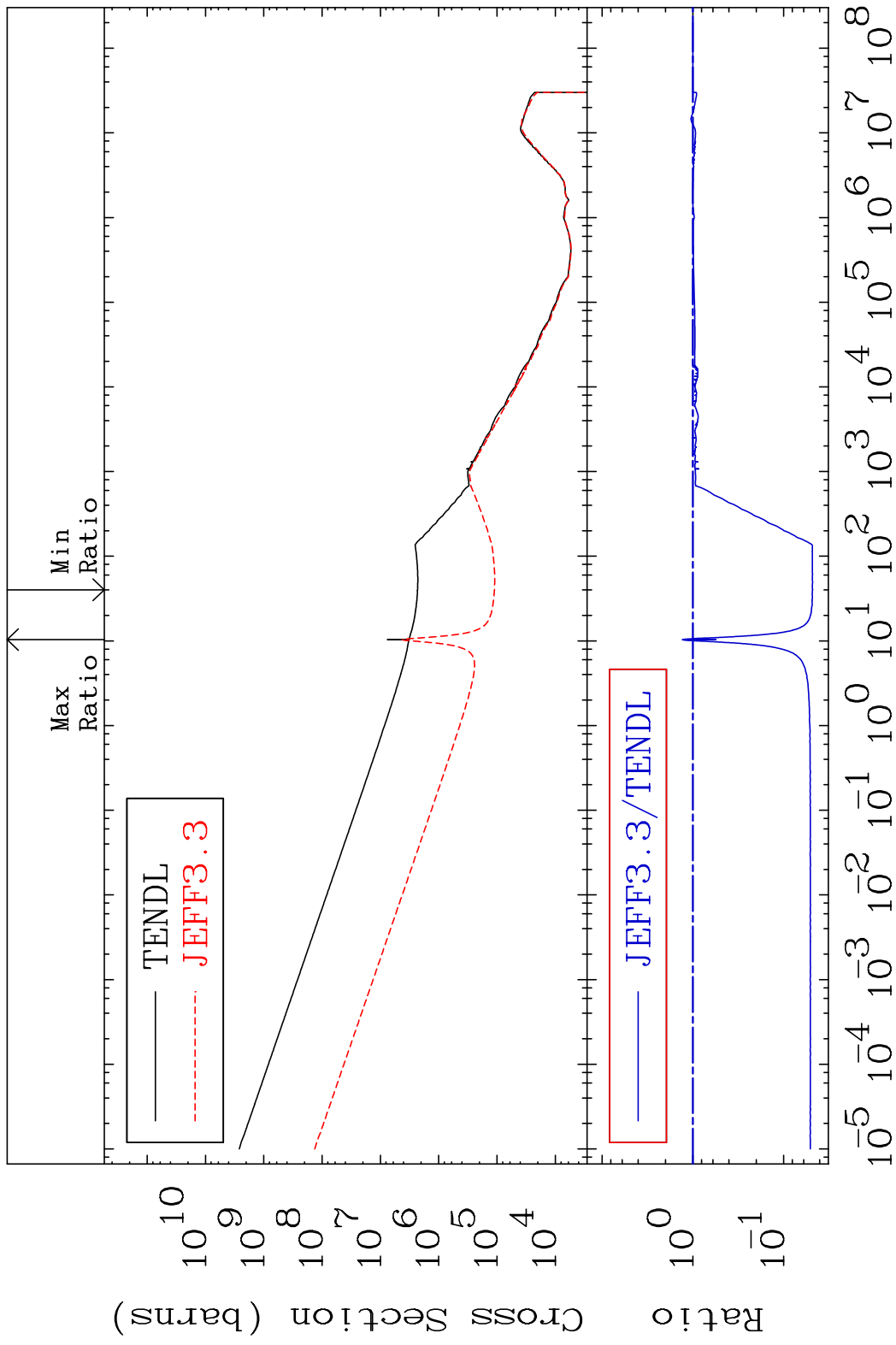


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Incident Energy (eV)

27-Co-58

MAT 2722 Dpa disappearance (mt102 -120) 27-Co-58
 Cross Section -95.21 To 30.27 %



MAT 2722 Inelastic:27-Co-58g 27-Co-58
 Radionuclide Production Cross Section 157.8 %

