

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

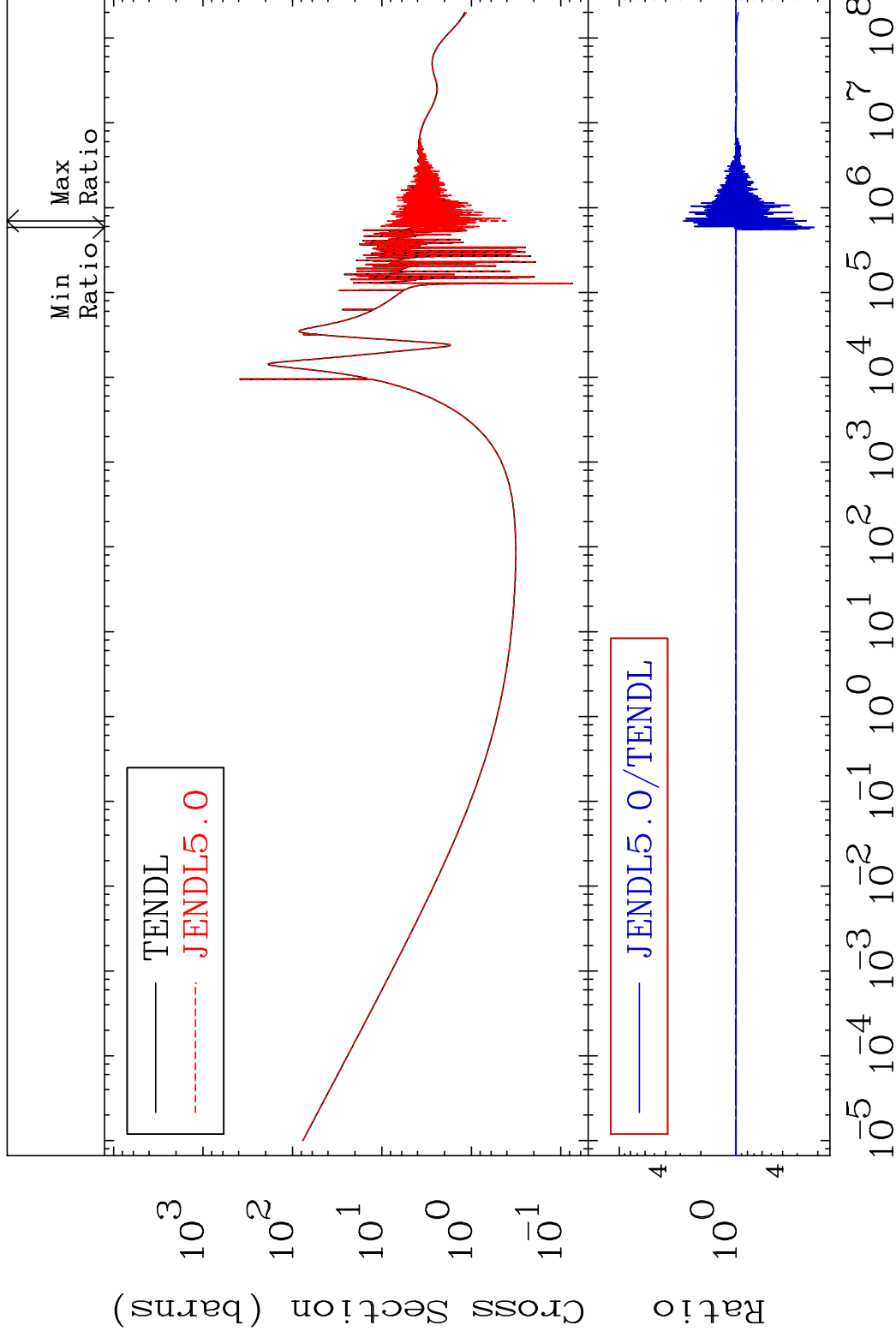
MAT 2843

Total

28-Ni-64

Cross Section

-78.50 To 180.7 %



1

Incident Energy (eV)

28-Ni-64

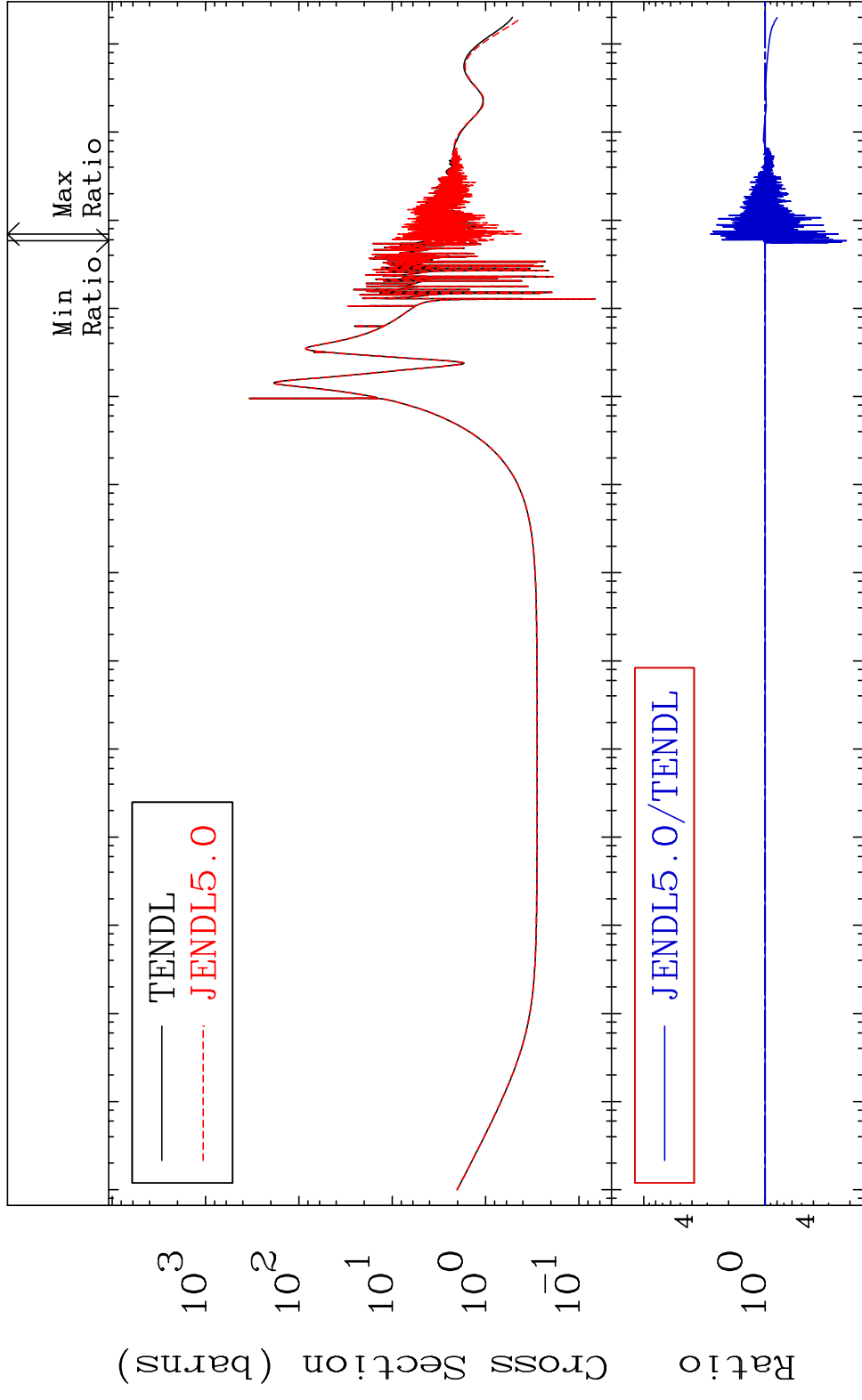
MAT 2843

Elastic

28-Ni-64

Cross Section

-78.56 To 180.9 %



2

Incident Energy (eV)

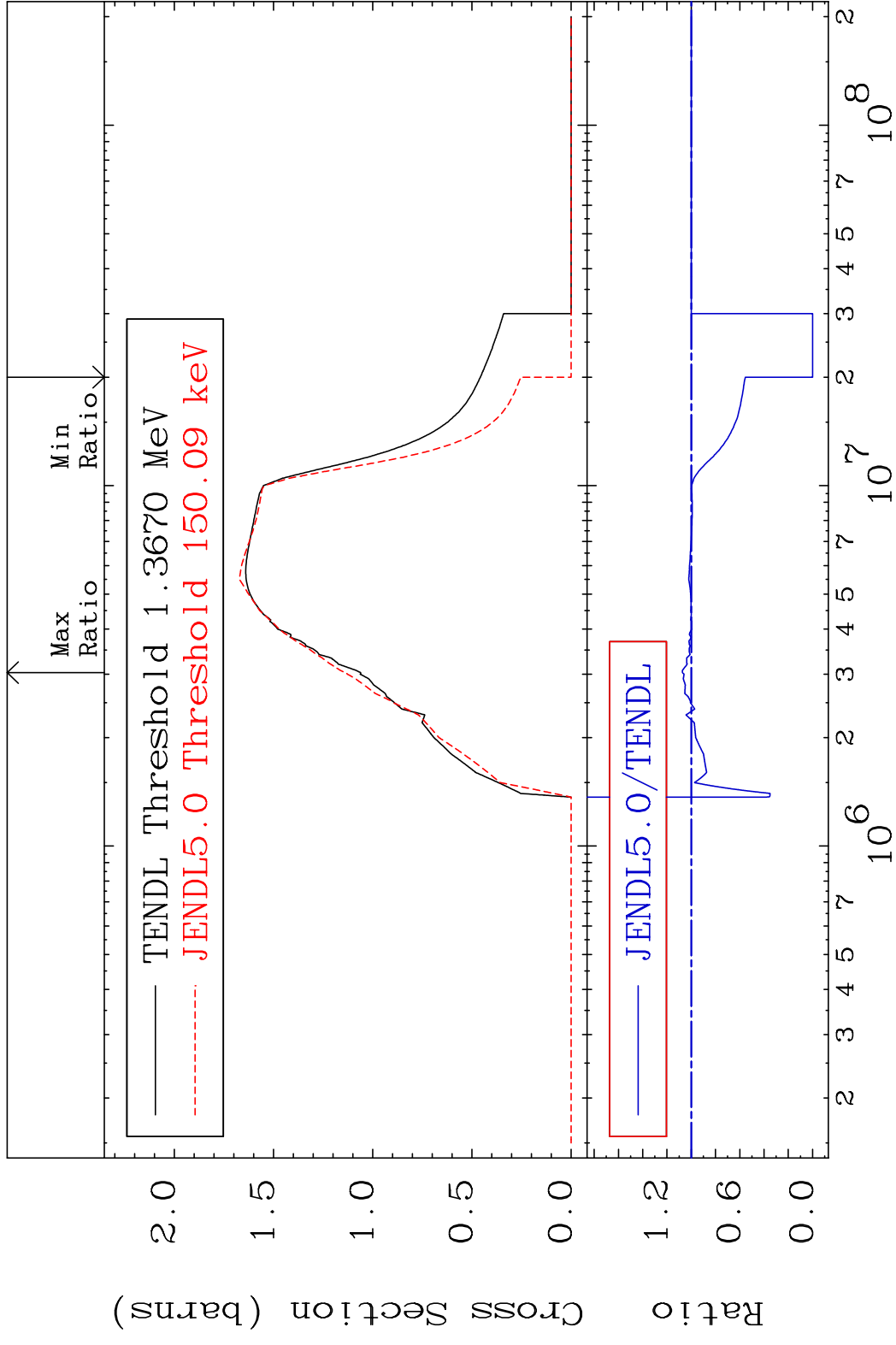
28-Ni-64

MAT 2843

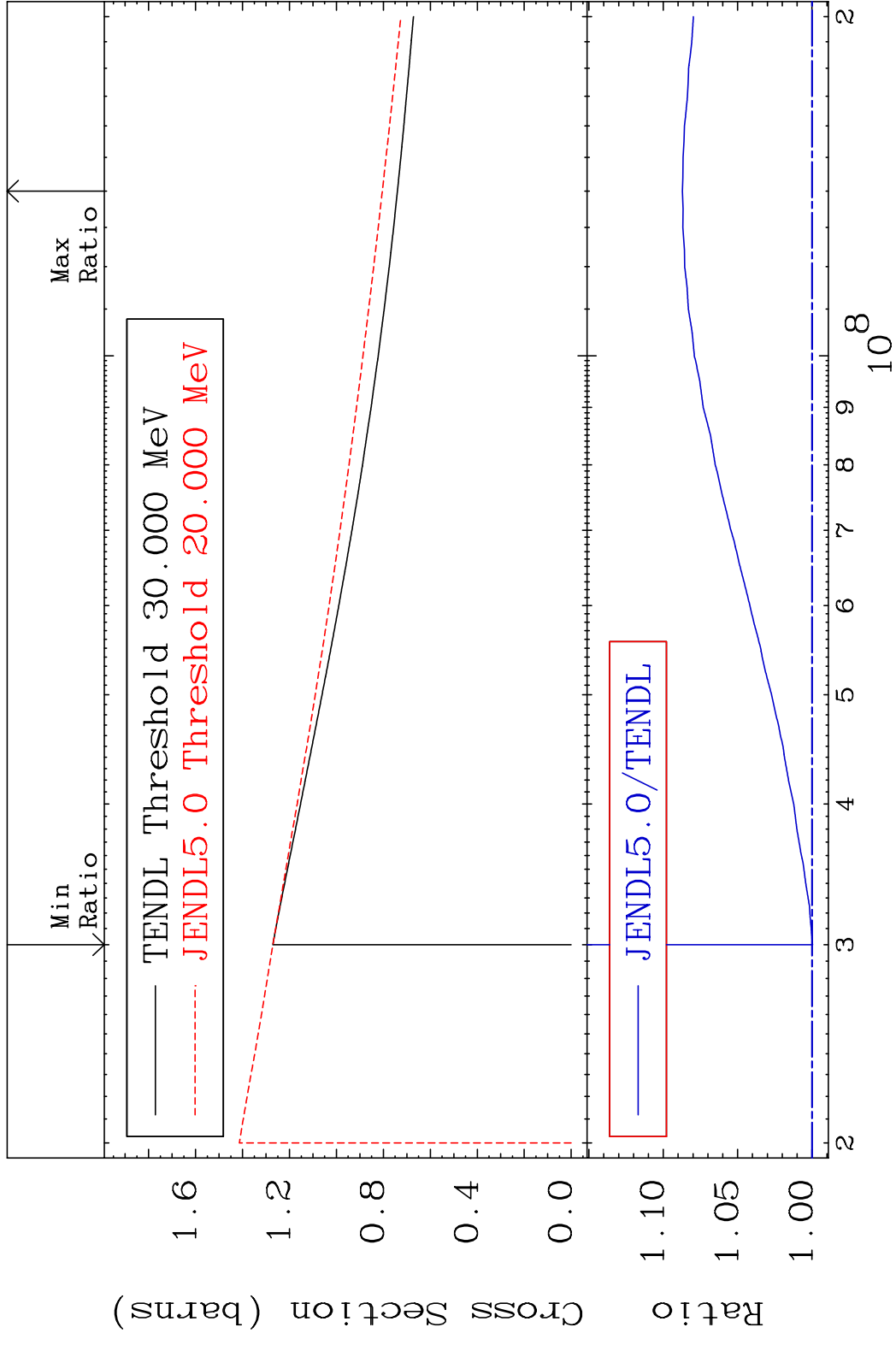
28-Ni-64

Inelastic

Cross Section -100.0 To 7.319 %

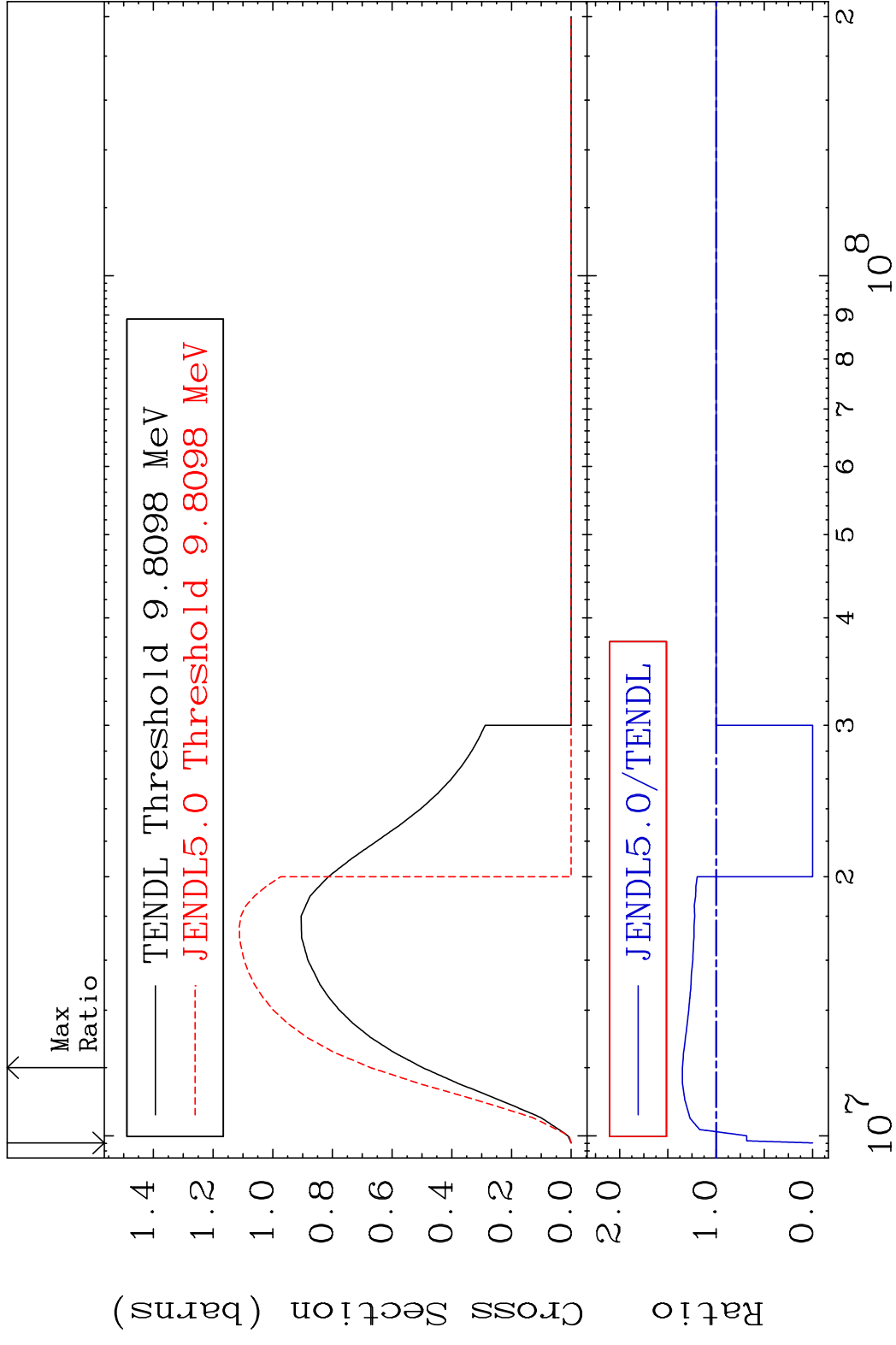


MAT 2843 (n, remainder) 28-Ni-64
 Cross Section -0.038 To 8.717 %



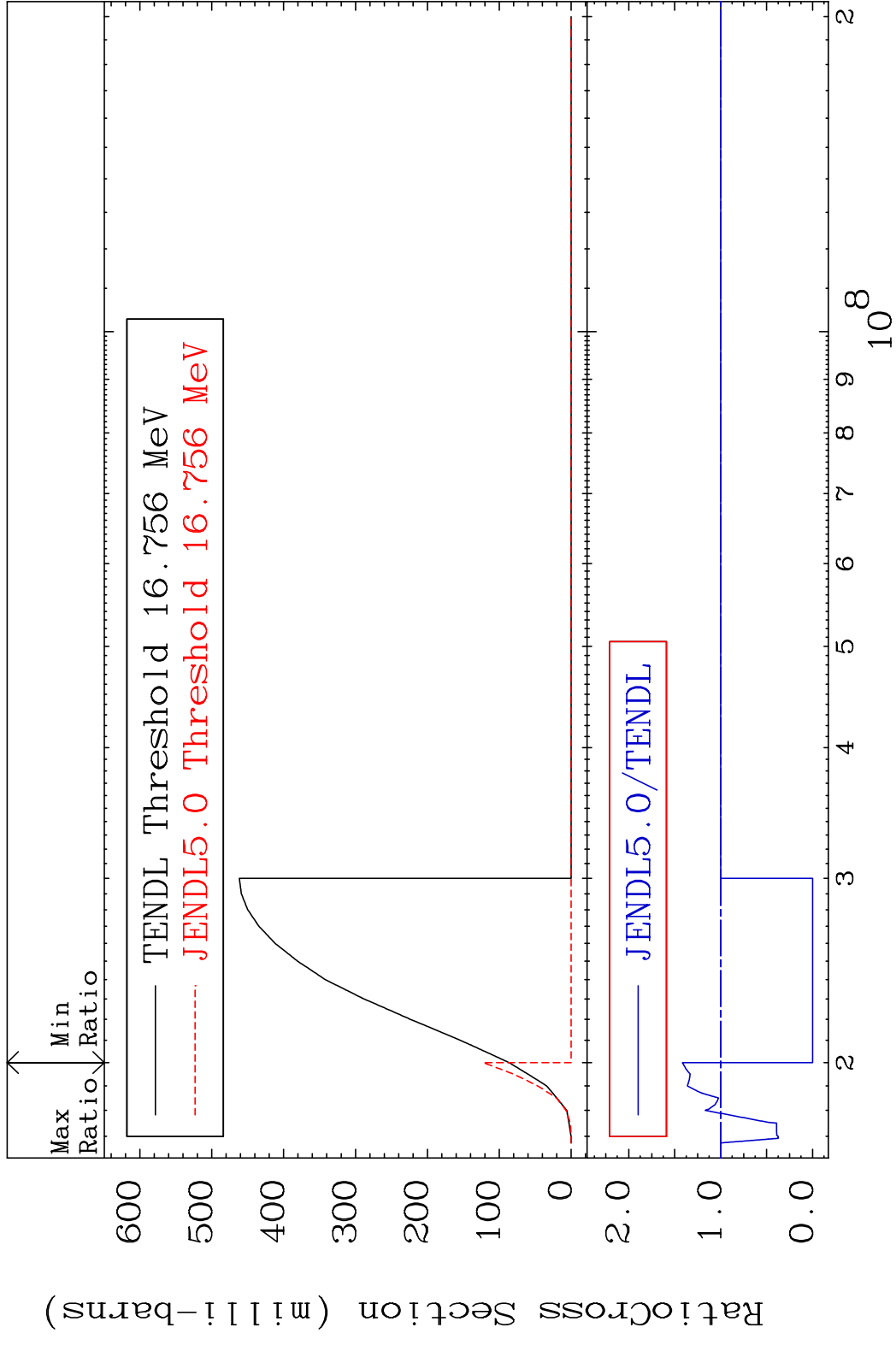
4 Incident Energy (eV) 28-Ni-64

MAT 2843 (n,2n) 28-Ni-64
 Cross Section -100.0 To 35.00 %

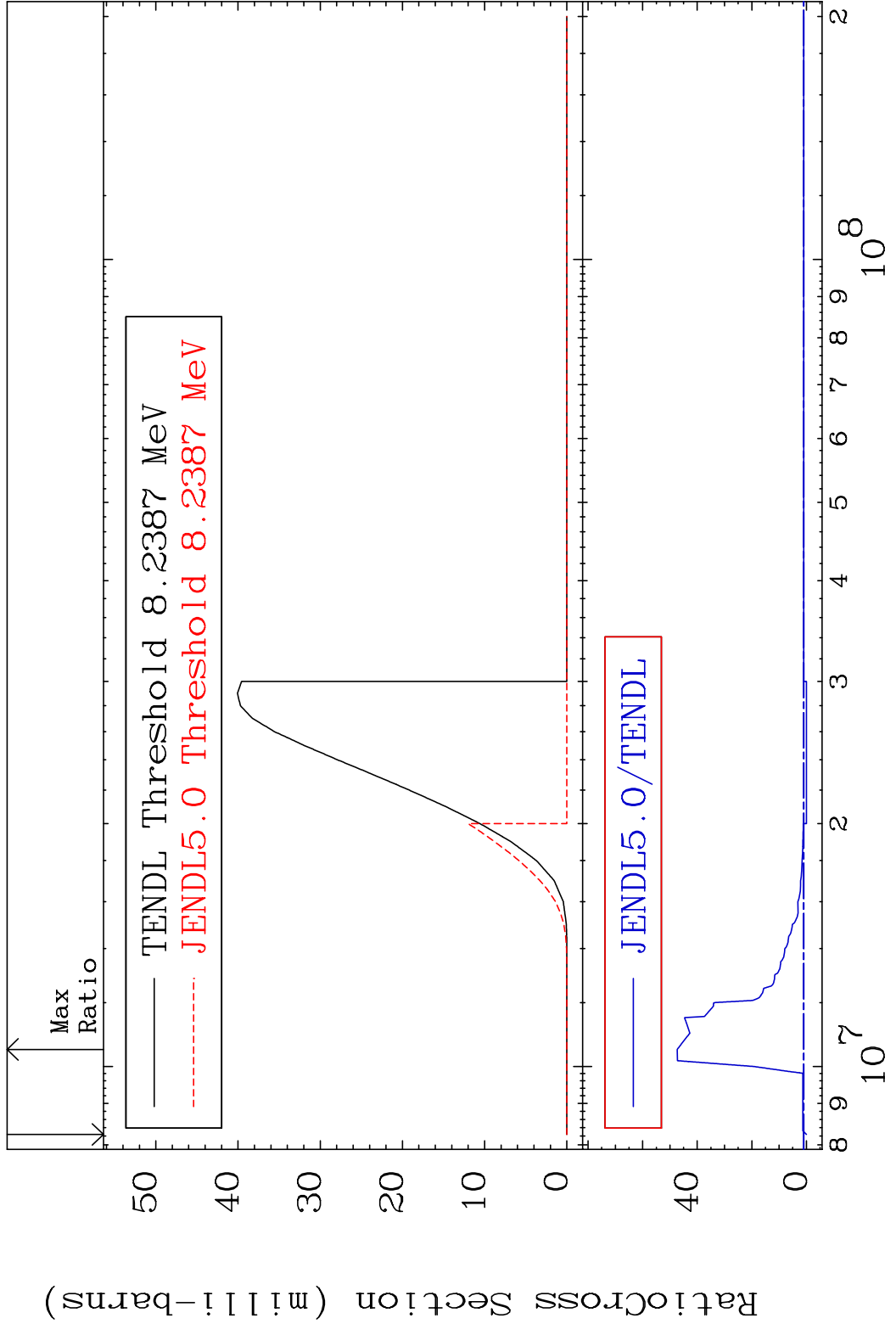


5 Incident Energy (eV) 28-Ni-64

MAT 2843 (n,3n) 28-Ni-64
 Cross Section -100.0 To 41.67 %



MAT 2843 (n, n') α 28-Ni-64
 Cross Section -100.0 To 4635. %



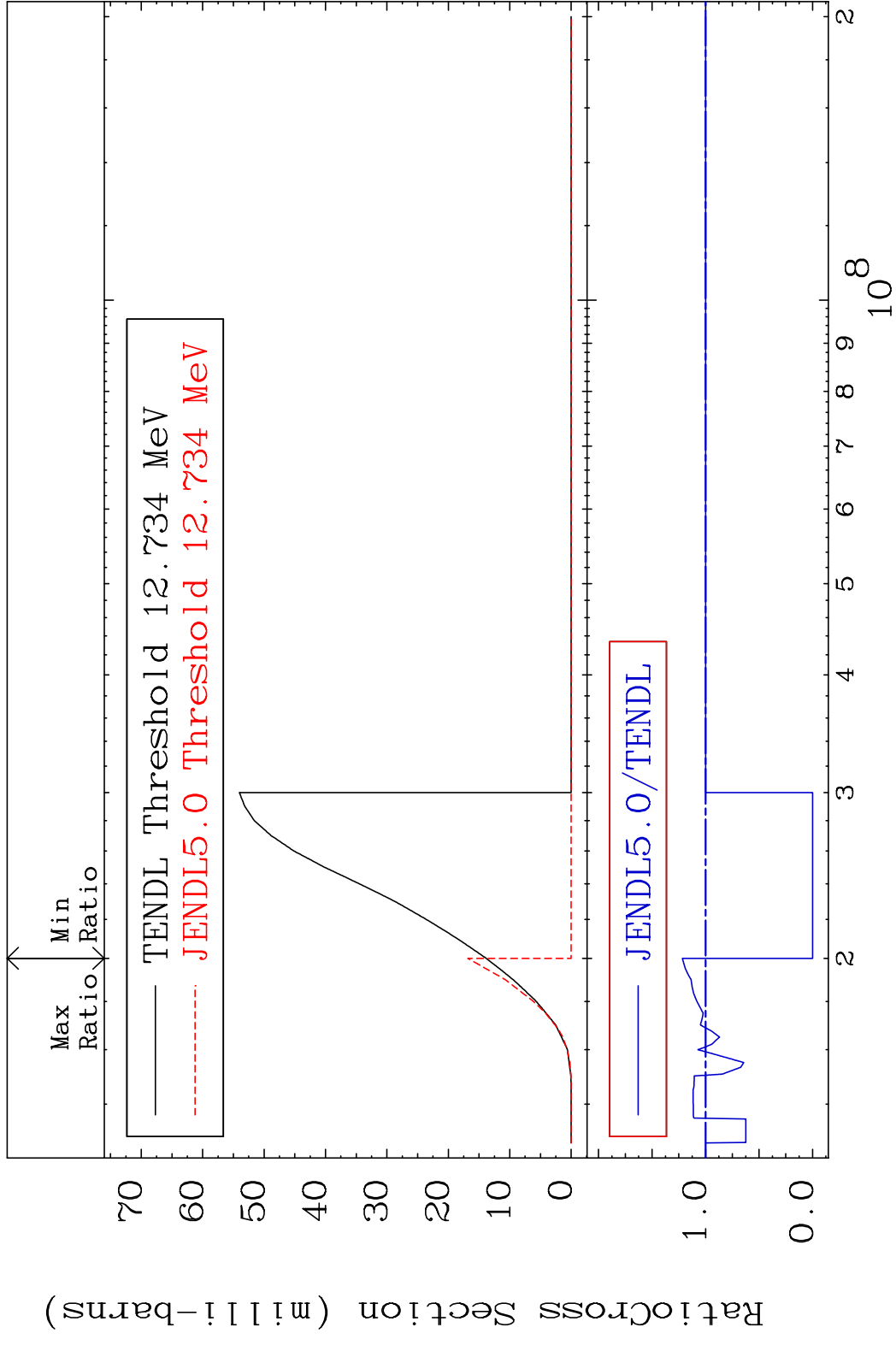
7 Incident Energy (eV) 28-Ni-64

MAT 2843

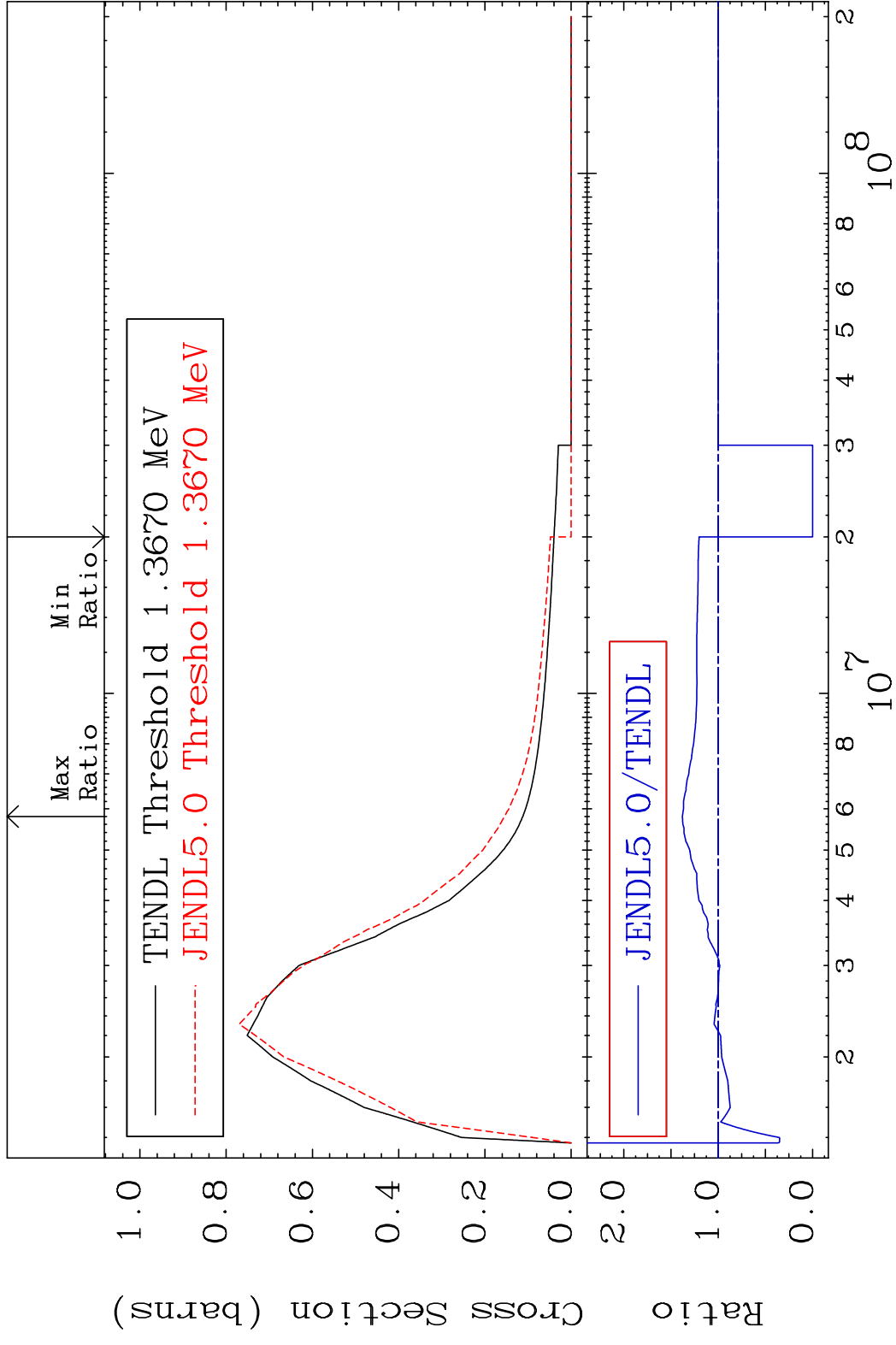
(n, n') p

28-Ni-64

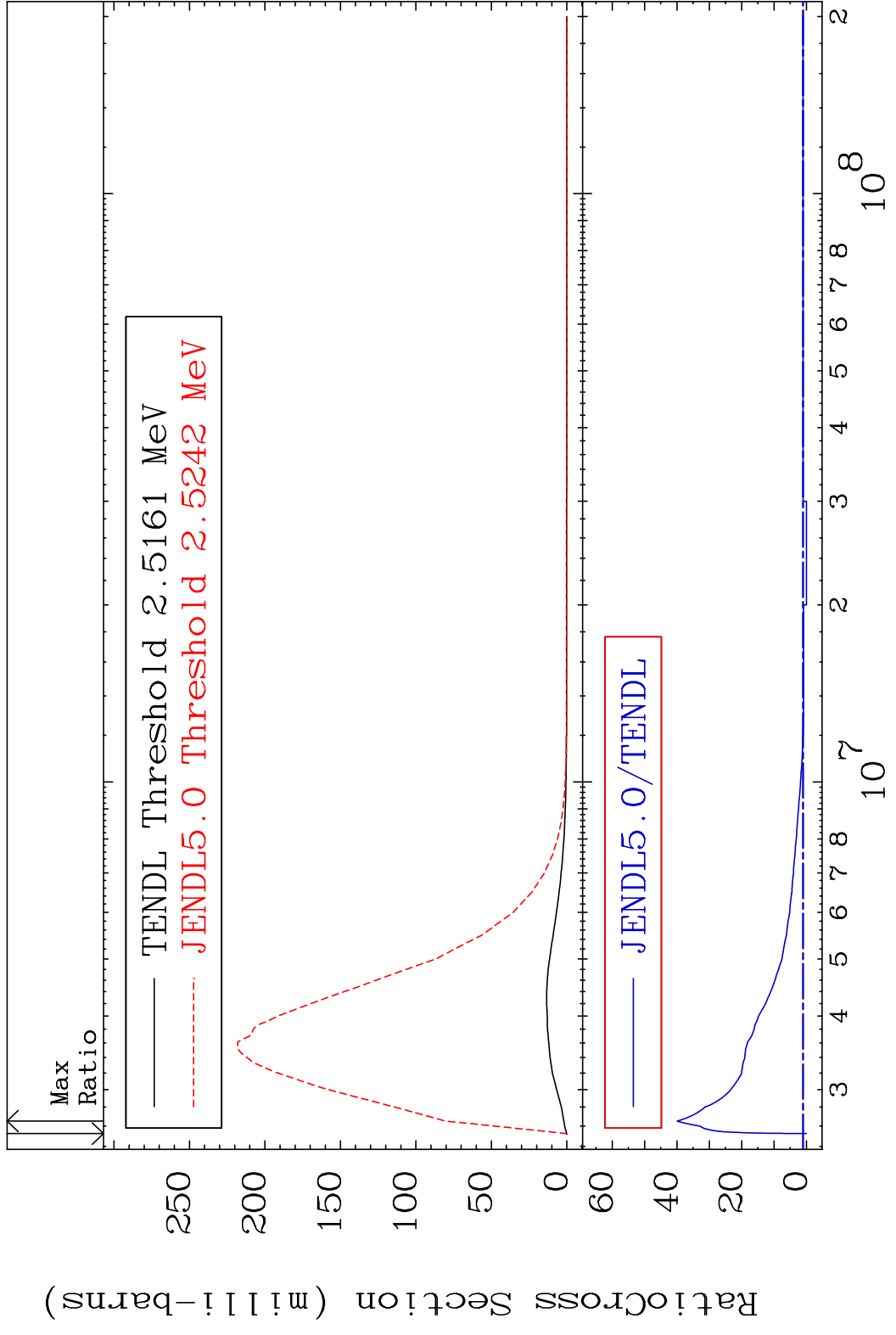
Cross Section -100.0 To 21.68 %



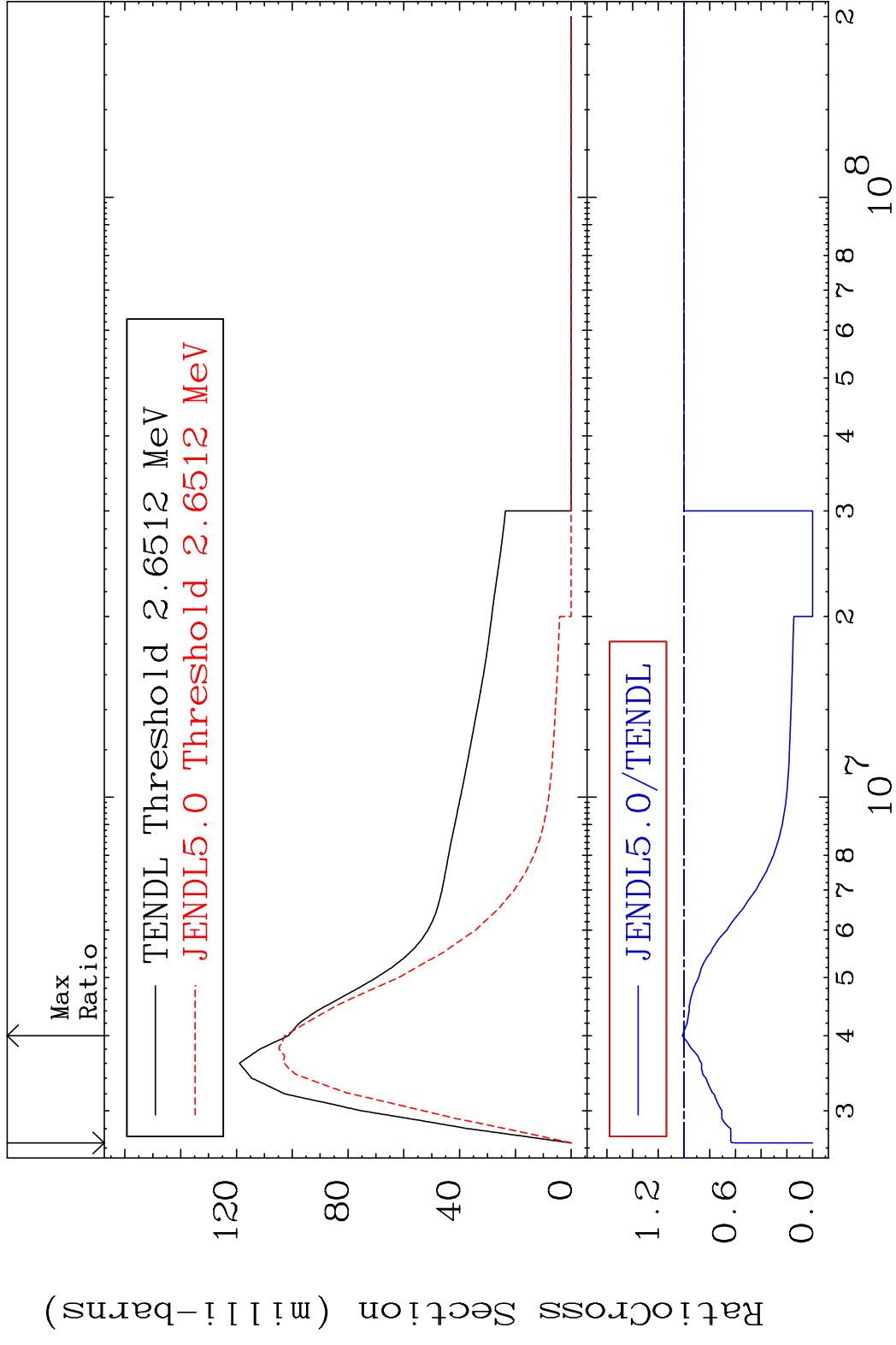
MAT 2843 MT= 51 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 37.95 %



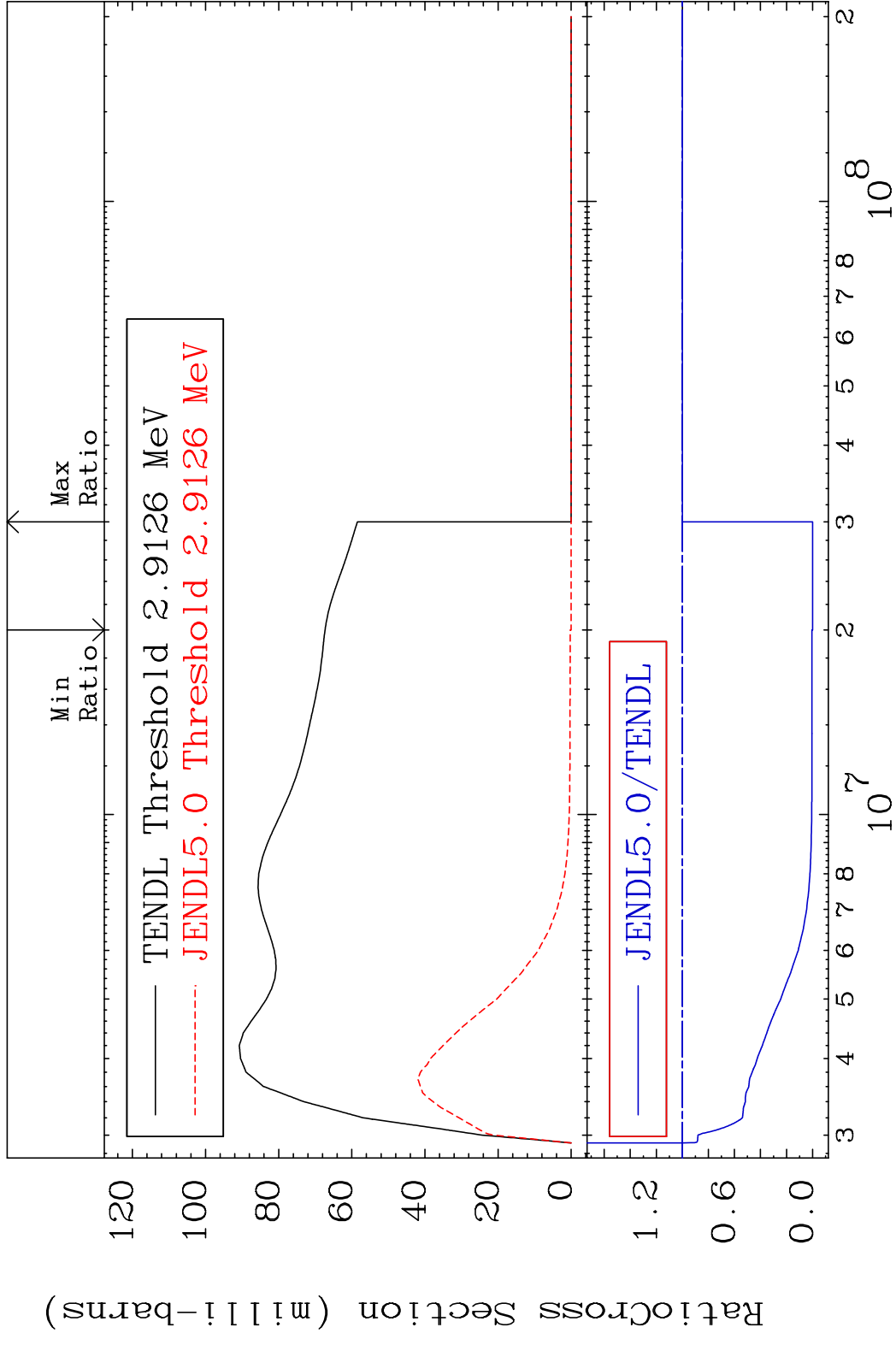
MAT 2843 MT= 53 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 3893. %



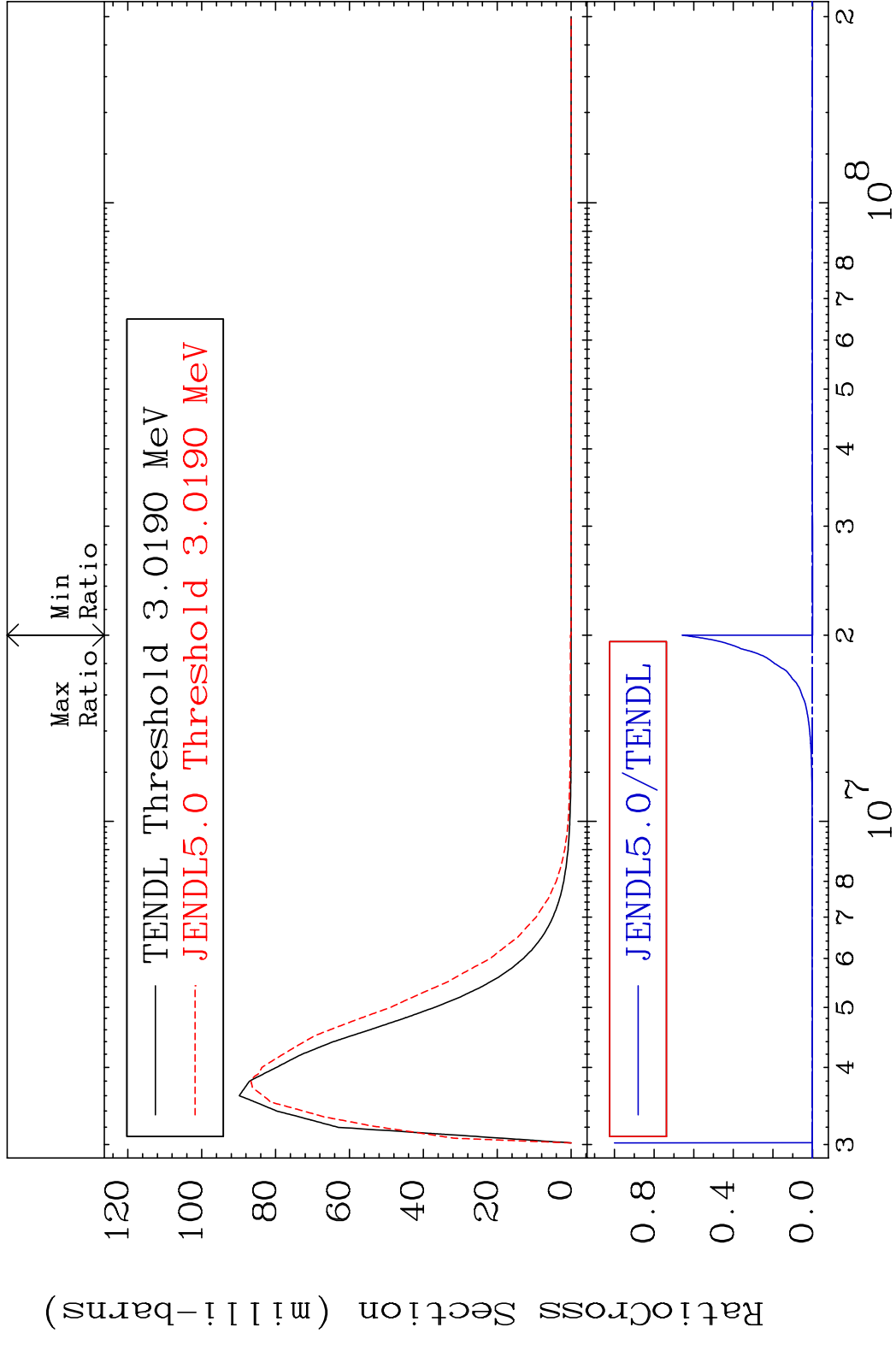
MAT 2843 MT= 54 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 1.281 %



MAT 2843 MT= 55 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 0.000 %

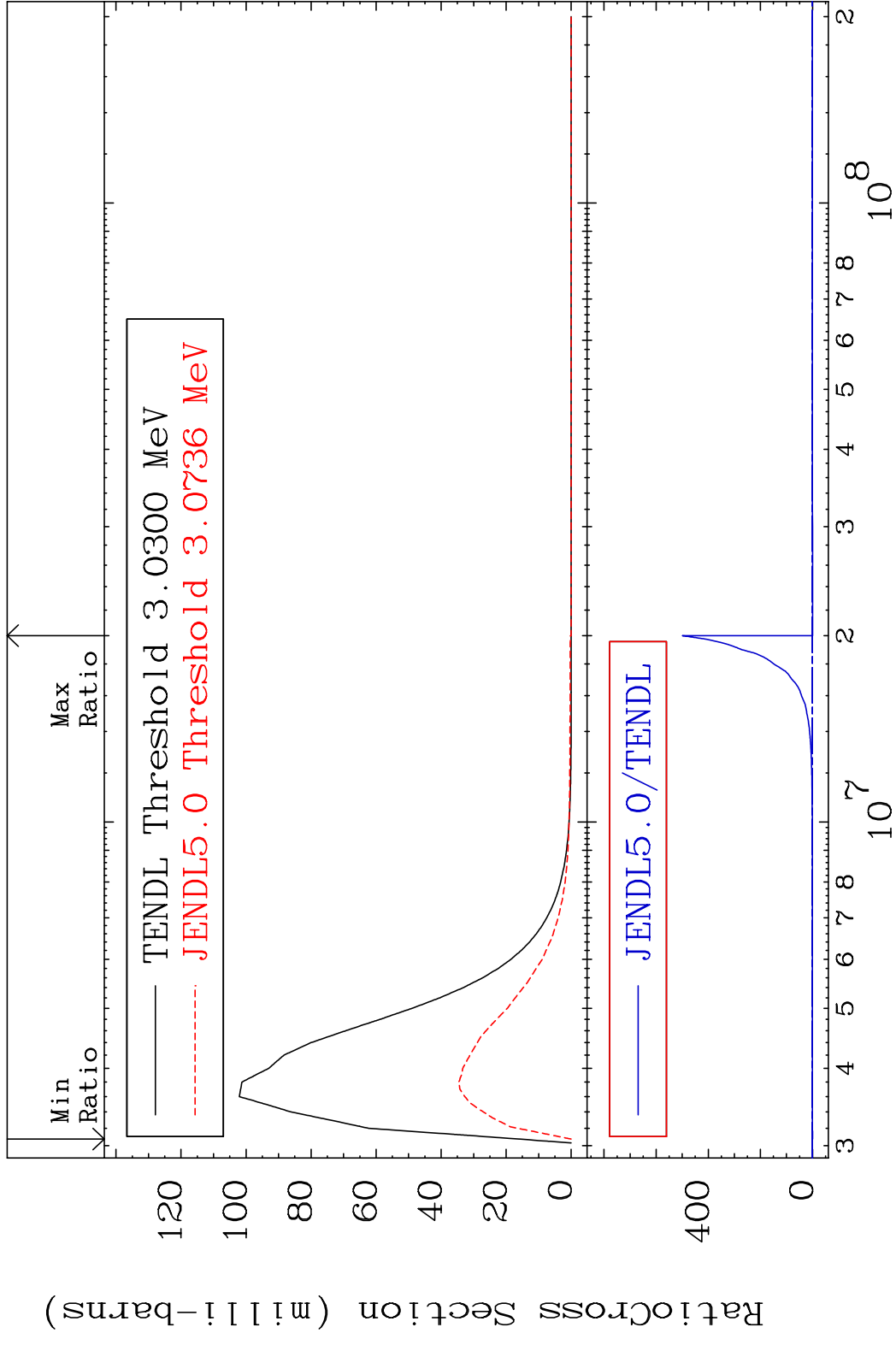


MAT 2843 MT= 56 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 9999. %

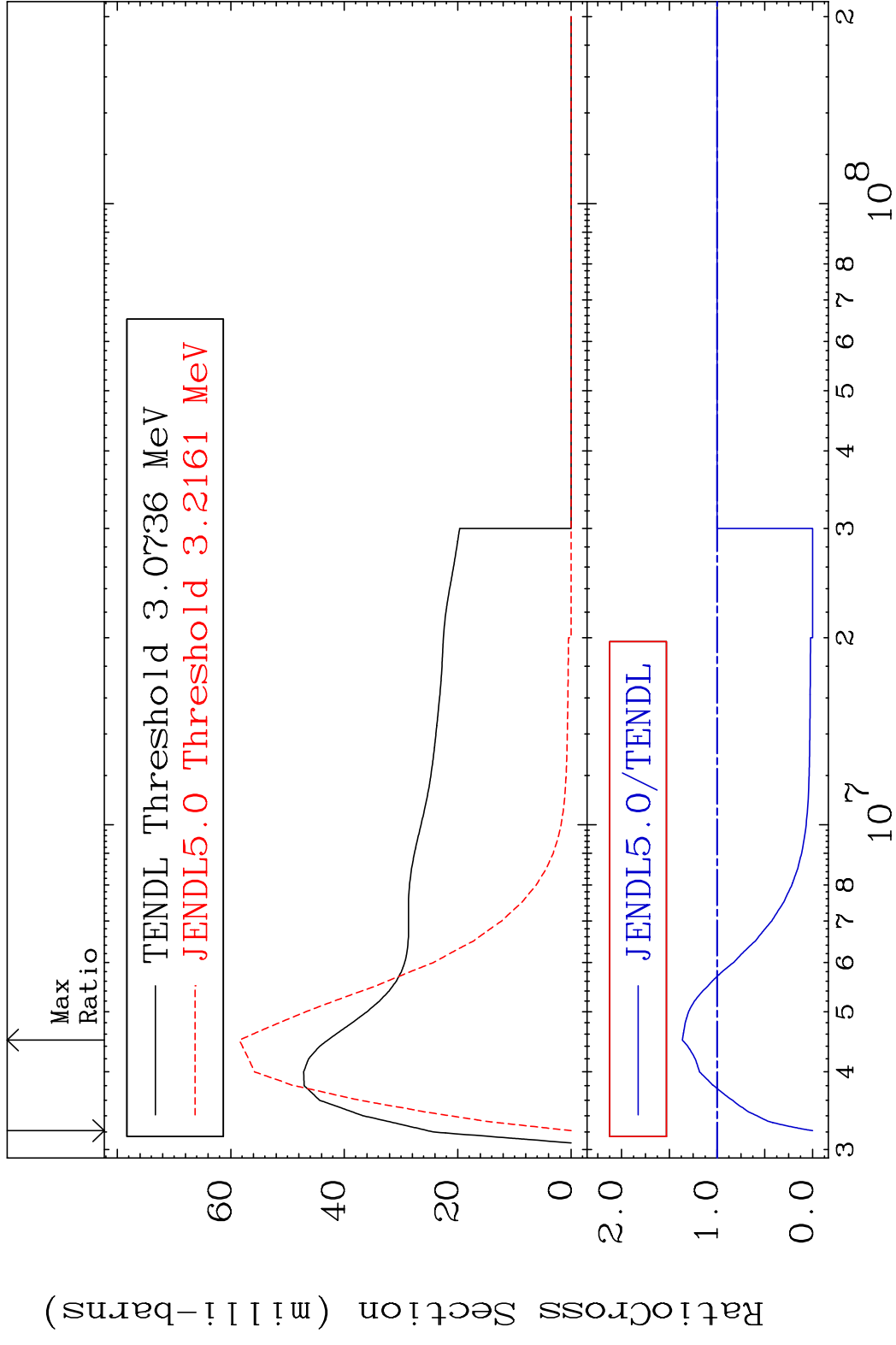


14 Incident Energy (eV) 28-Ni-64

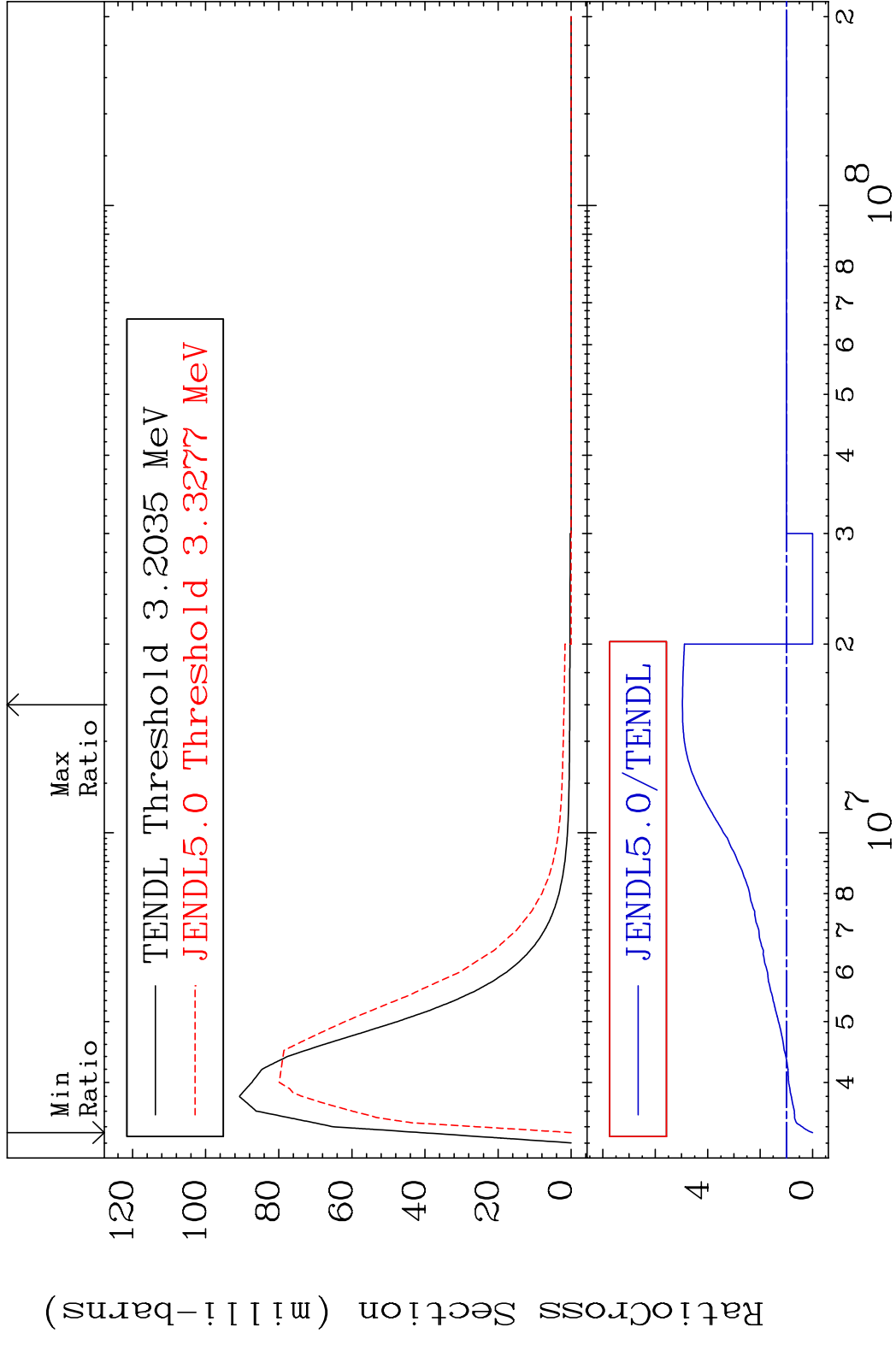
MAT 2843 MT= 57 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 9999. %



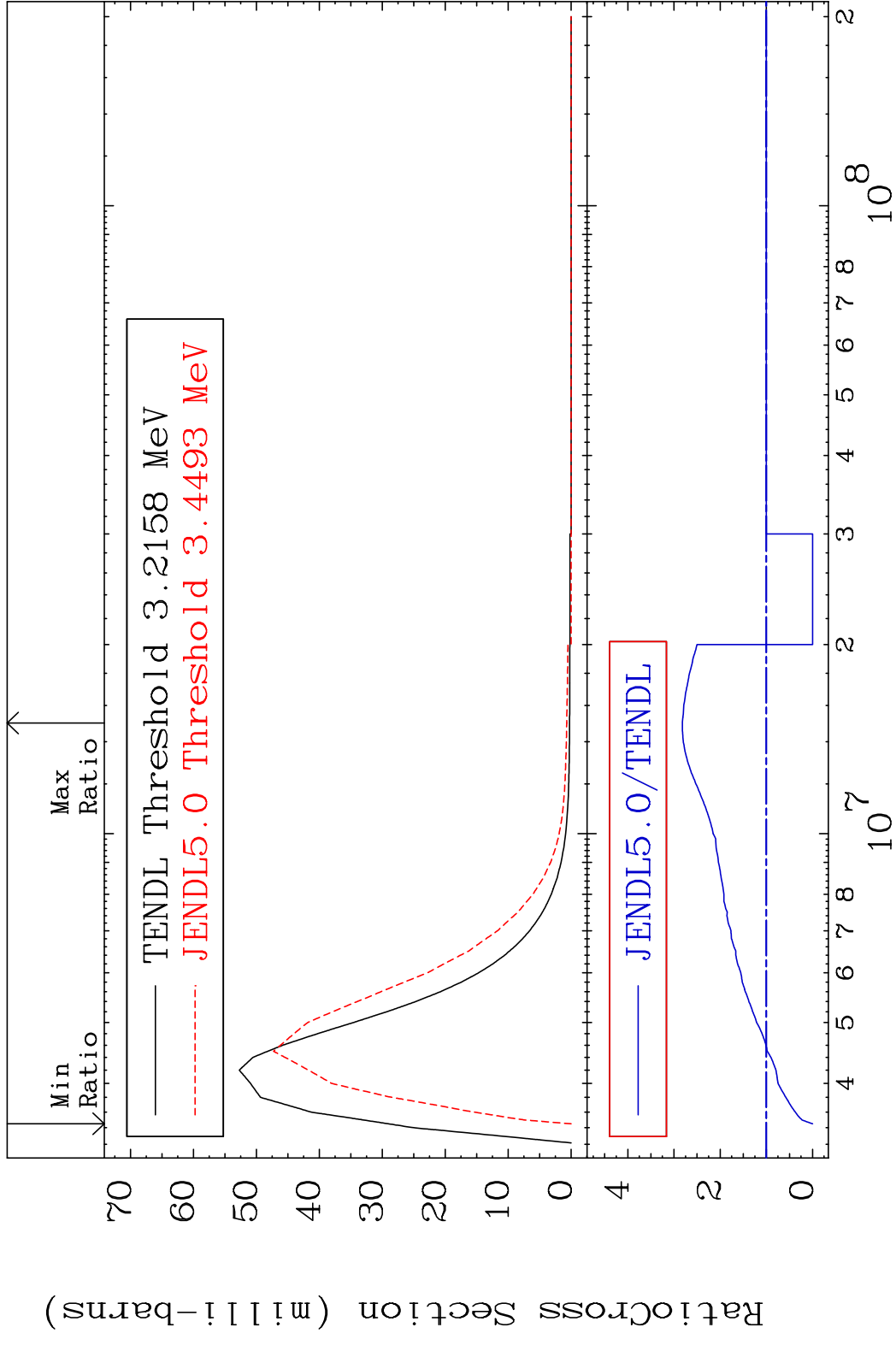
MAT 2843 MT= 58 (n,n') Level 28-Ni-64
 Cross Section -100.0 To 36.37 %



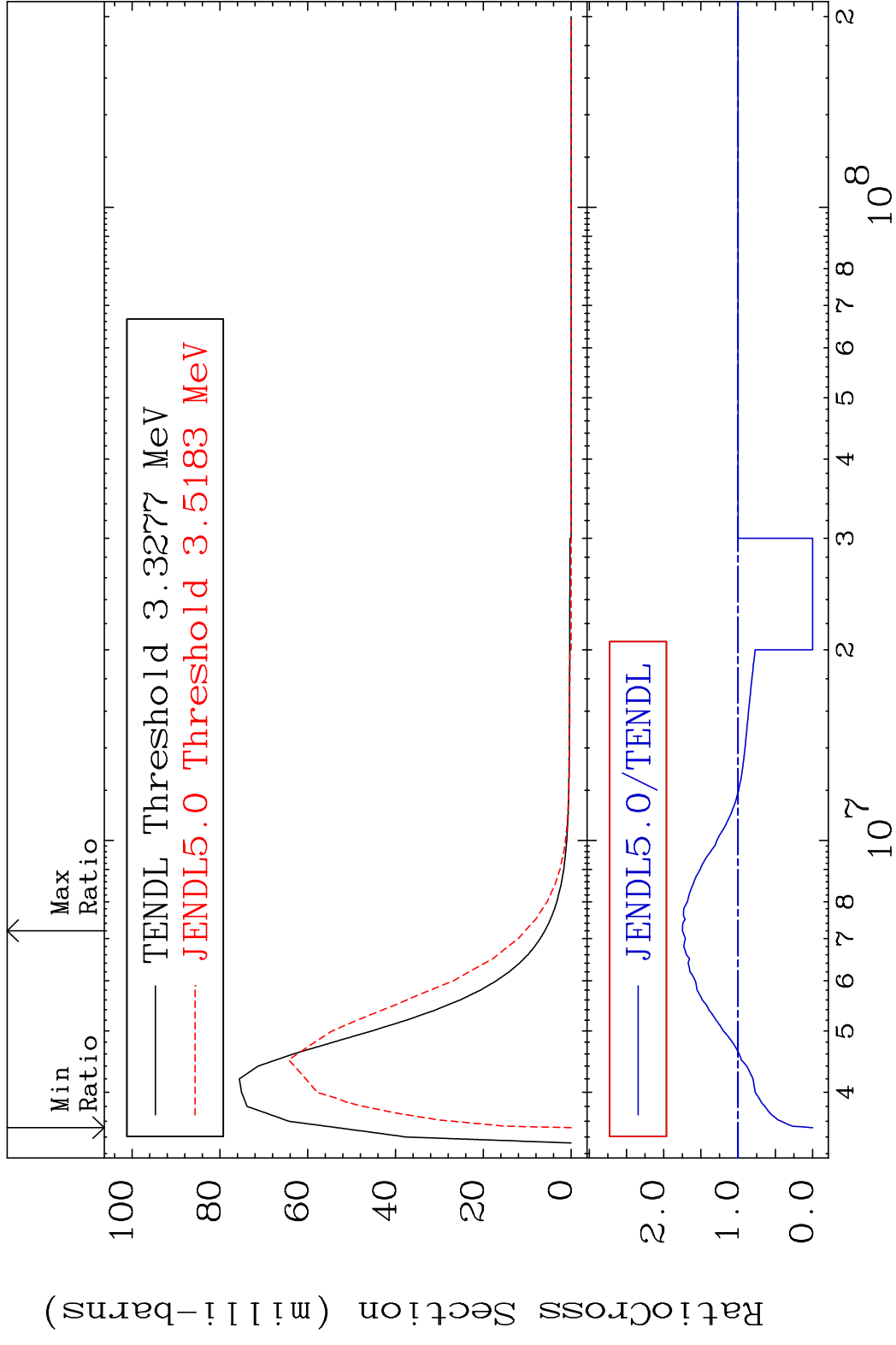
MAT 2843 MT= 59 (n,n') Level 28-Ni-64
 Cross Section -100.0 To 396.8 %



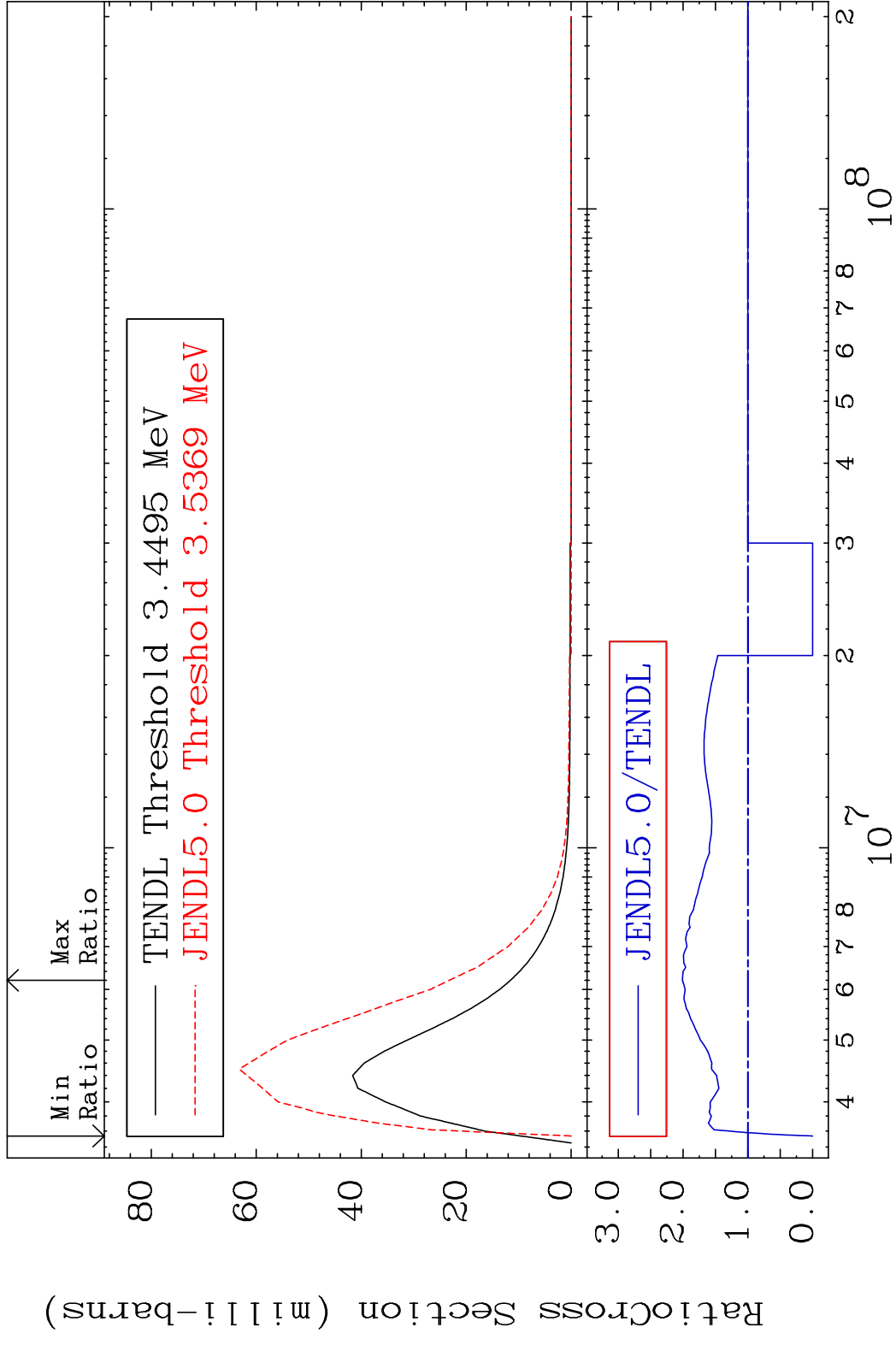
MAT 2843 MT= 60 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 181.9 %



MAT 2843 MT= 61 (n,n') Level 28-Ni-64
 Cross Section -100.0 To 74.92 %

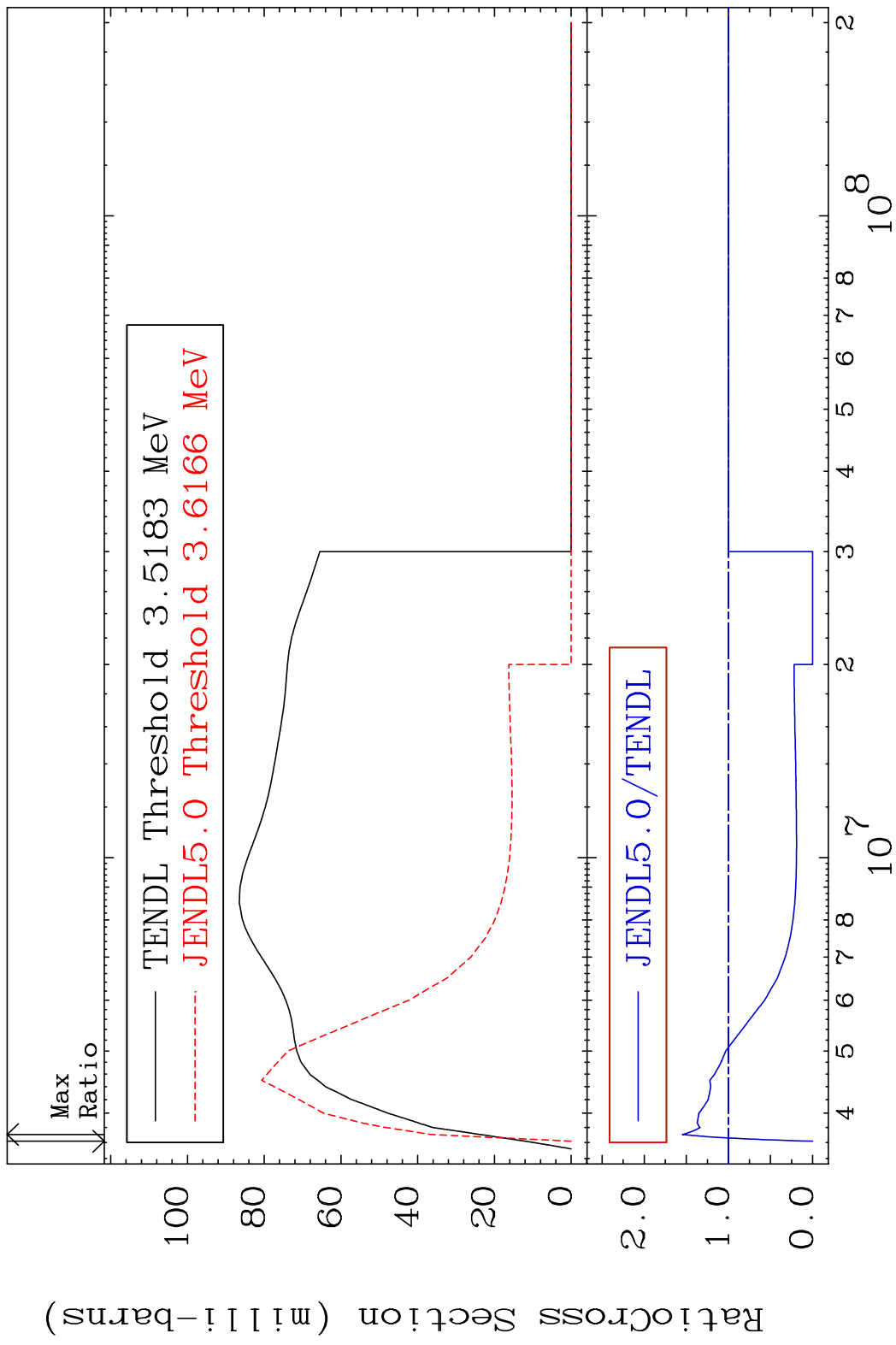


MAT 2843 MT= 62 (n,n') Level 28-Ni-64
 Cross Section -100.0 To 101.1 %

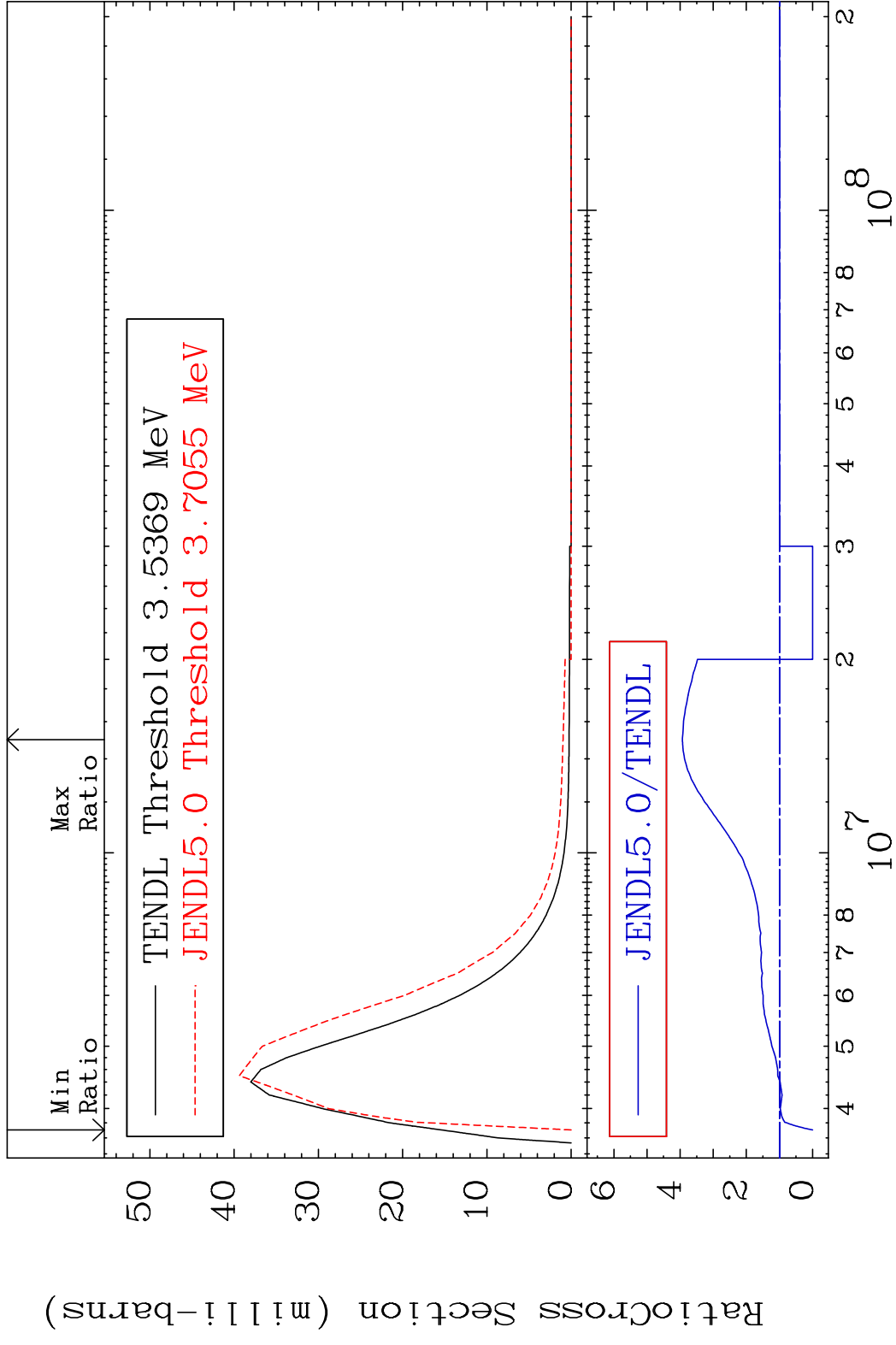


20 Incident Energy (eV) 28-Ni-64

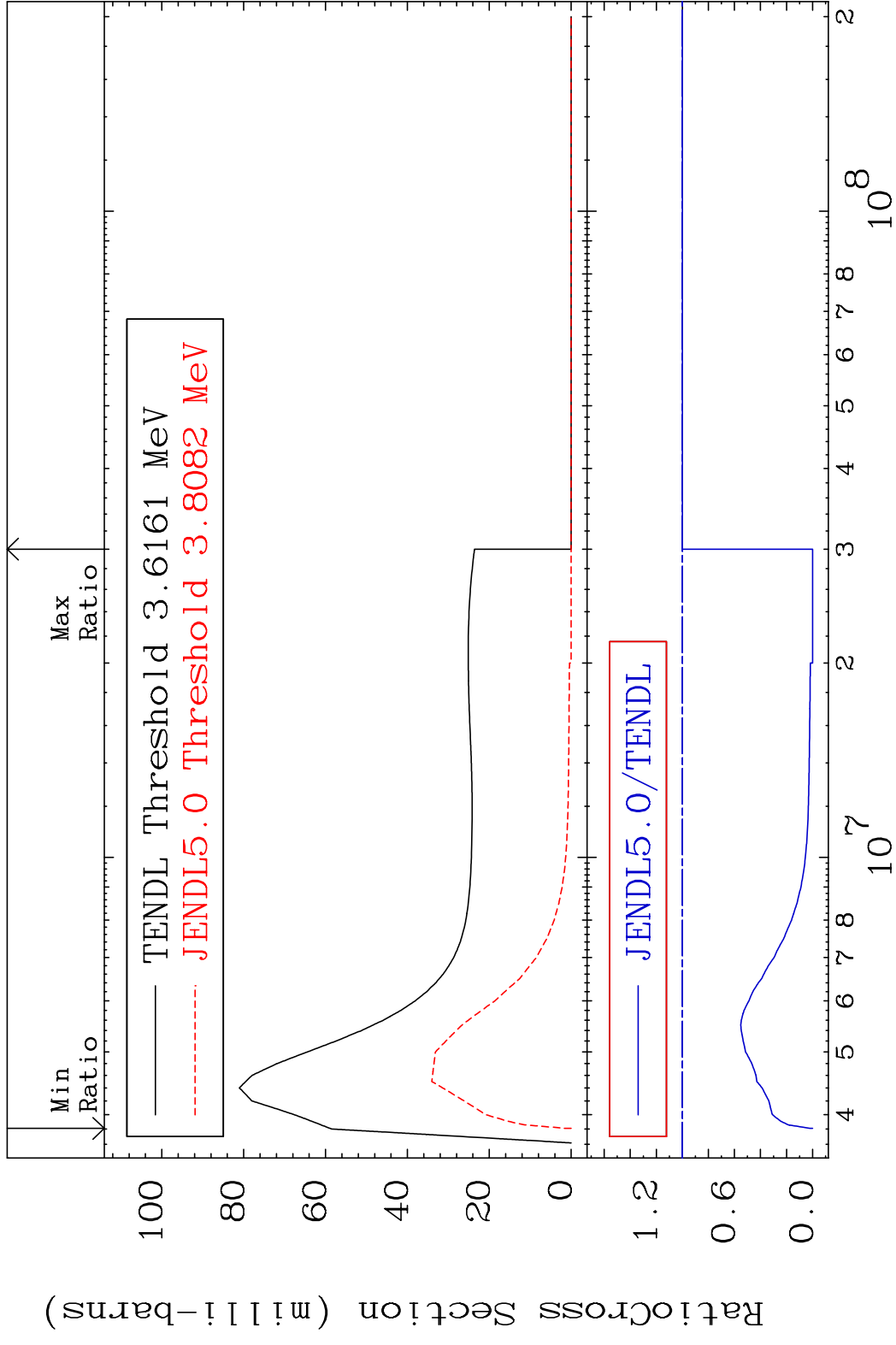
MAT 2843 MT= 63 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 54.72 %



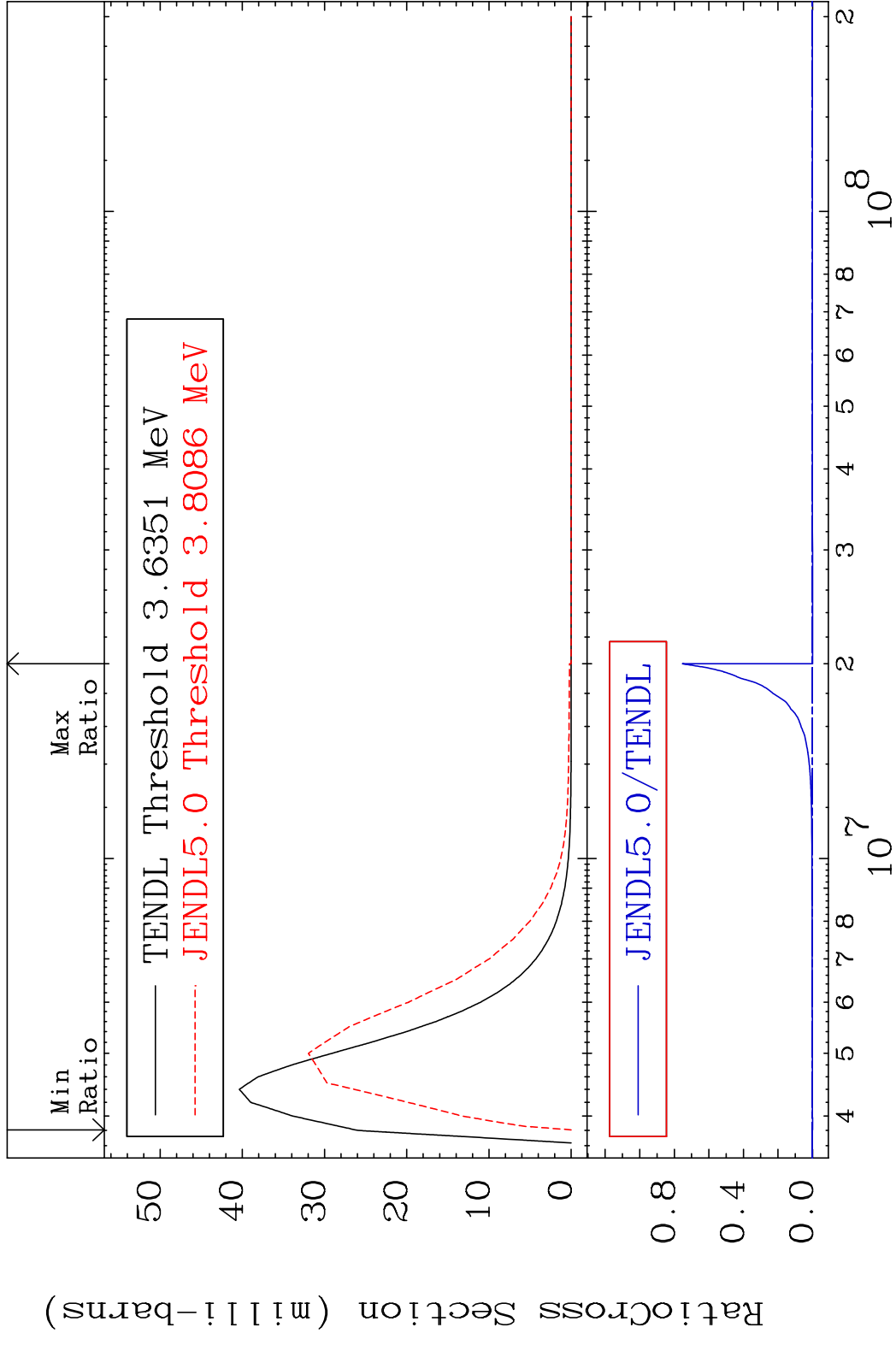
MAT 2843 MT= 64 (n,n') Level 28-Ni-64
 Cross Section -100.0 To 293.2 %



MAT 2843 MT= 65 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 0.000 %

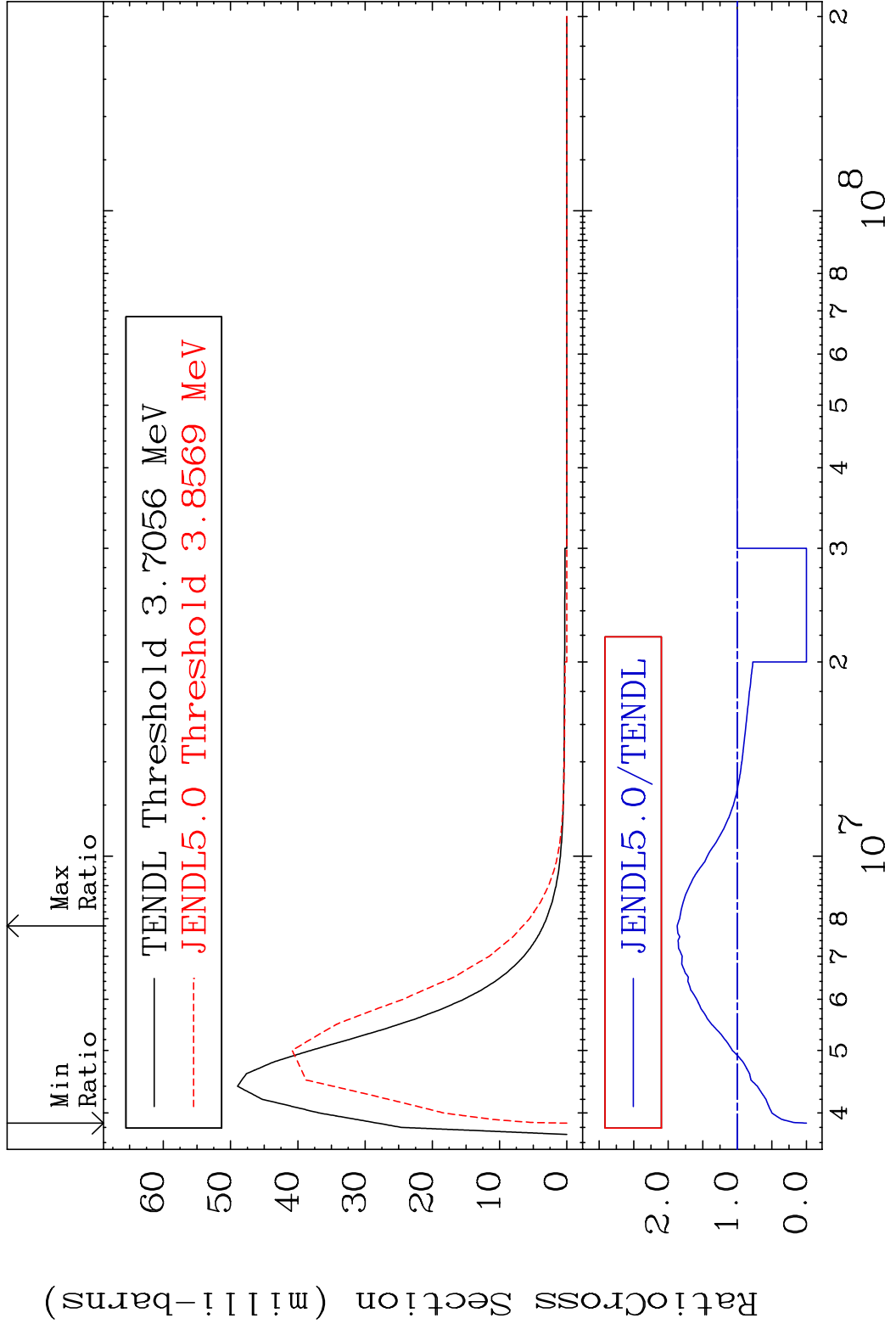


MAT 2843 MT= 66 (n,n') Level 28-Ni-64
 Cross Section -100.0 To 9999. %

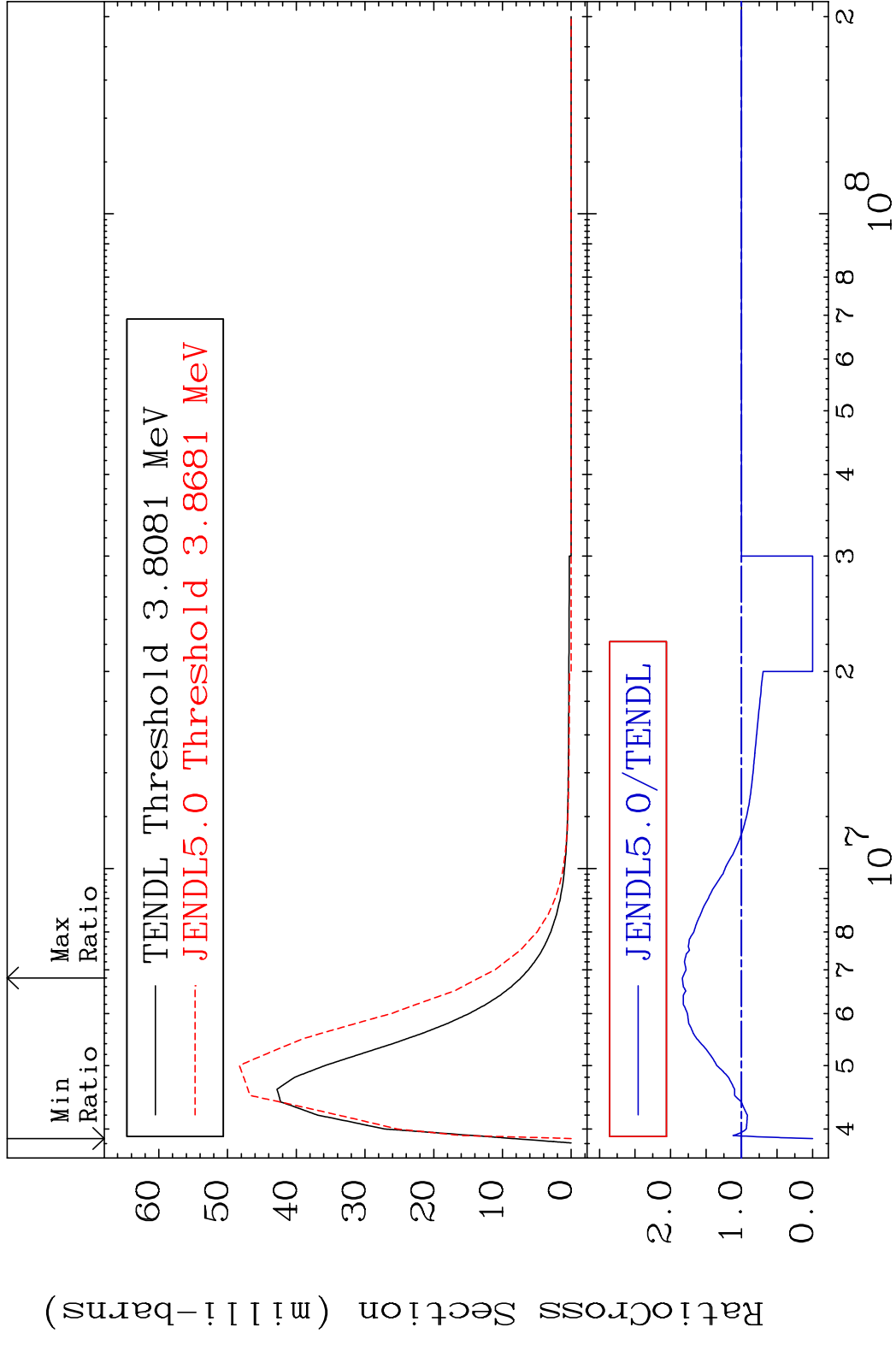


24 Incident Energy (eV) 28-Ni-64

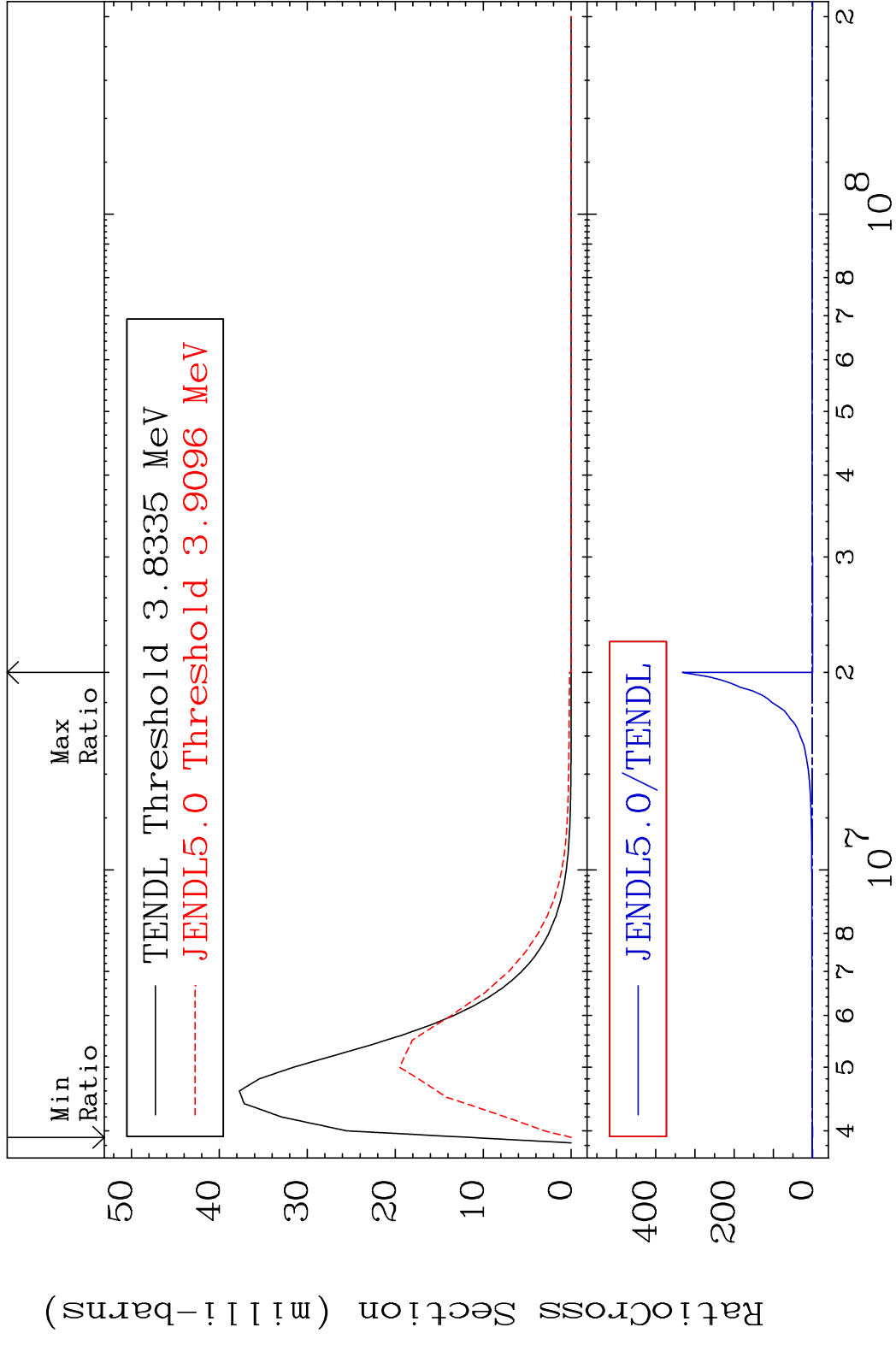
MAT 2843 MT= 67 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 87.01 %



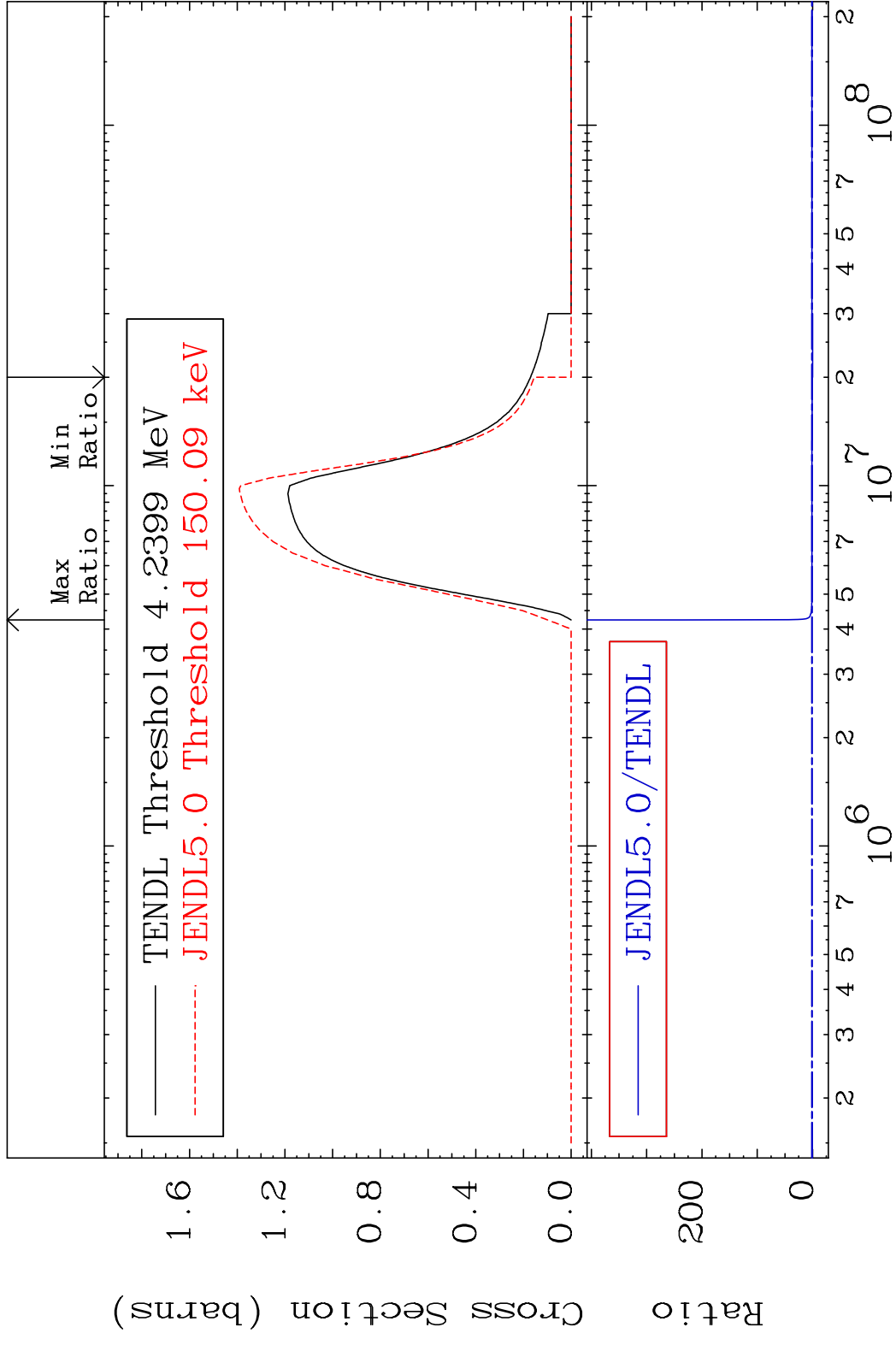
MAT 2843 MT= 68 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 83.33 %



MAT 2843 MT= 69 (n, n') Level 28-Ni-64
 Cross Section -100.0 To 9999. %



MAT 2843 (n,n') Continuum 28-Ni-64
 Cross Section -100.0 To 9999. %

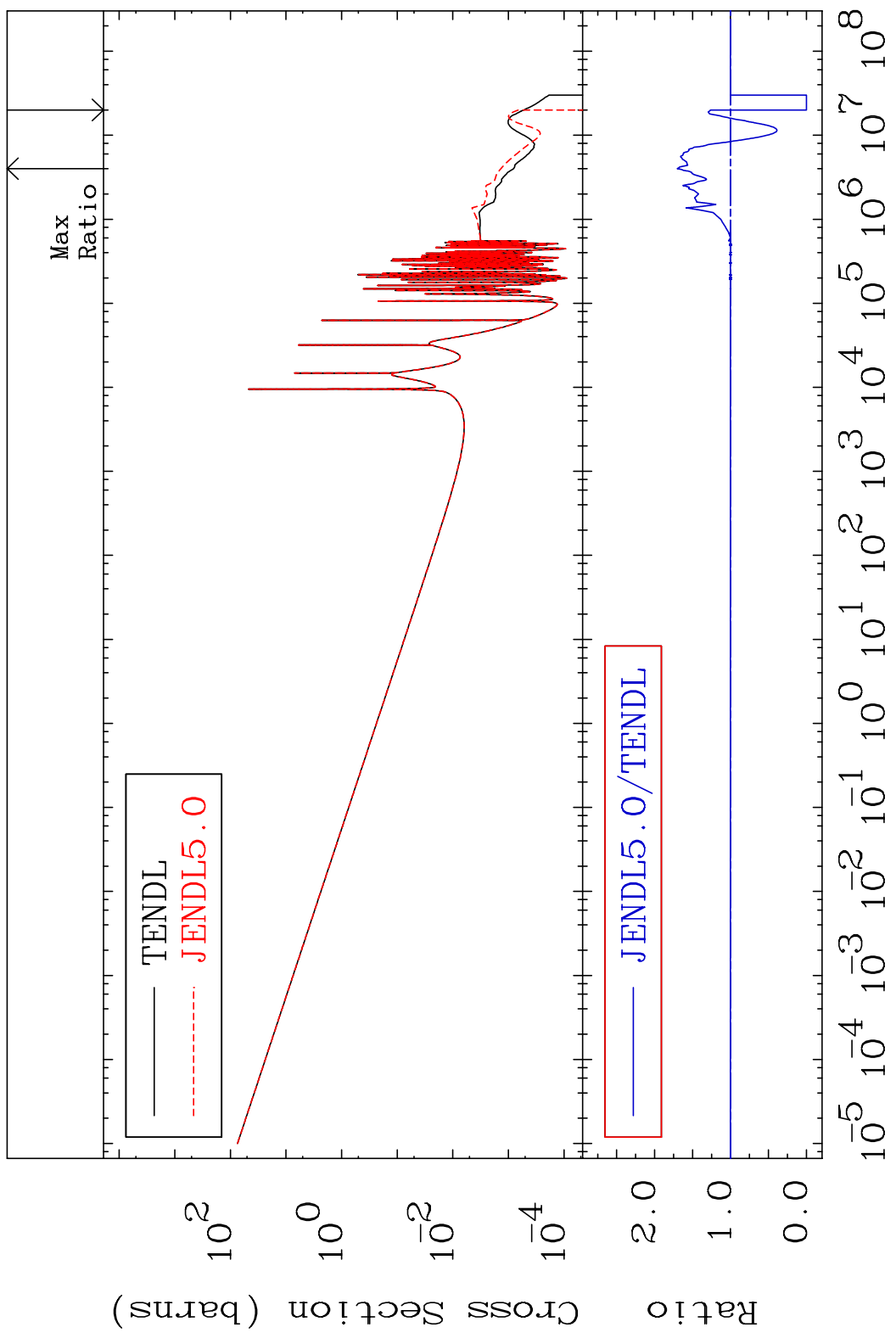


MAT 2843

(n, γ)

28-Ni-64

Cross Section -100.0 To 70.25 %

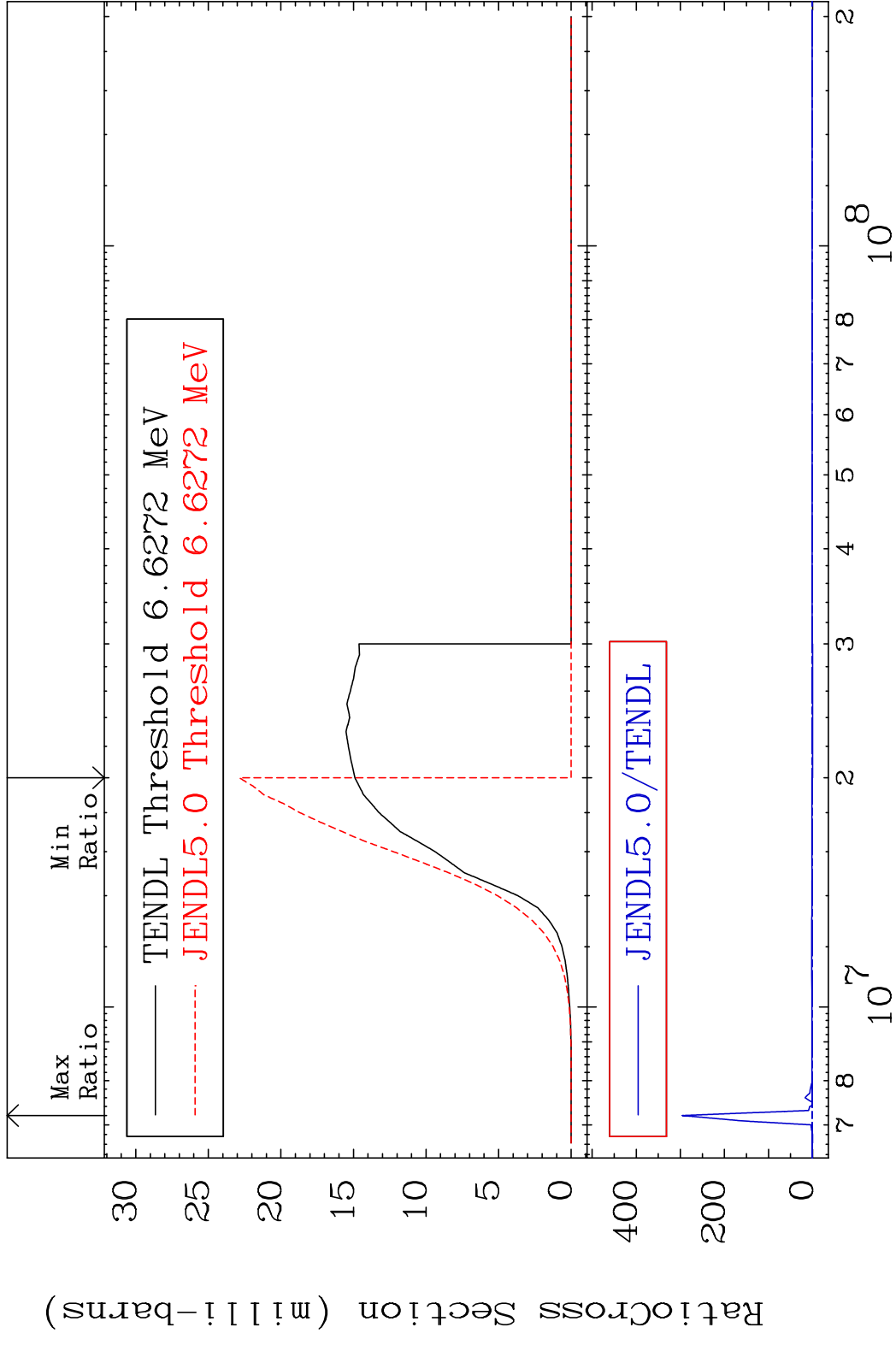


29

Incident Energy (eV)

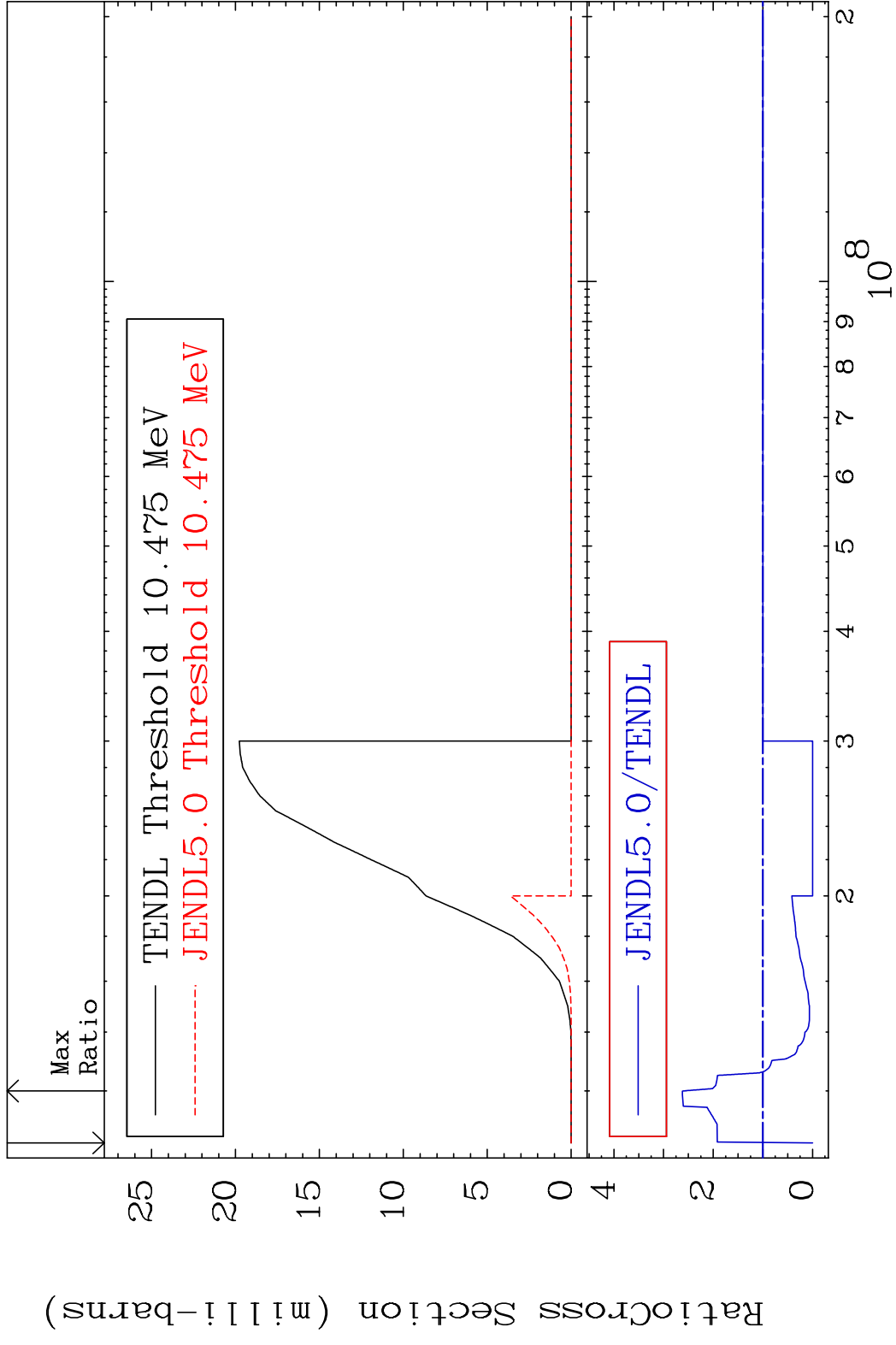
28-Ni-64

MAT 2843 (n,p) 28-Ni-64
 Cross Section -100.0 To 9999. %

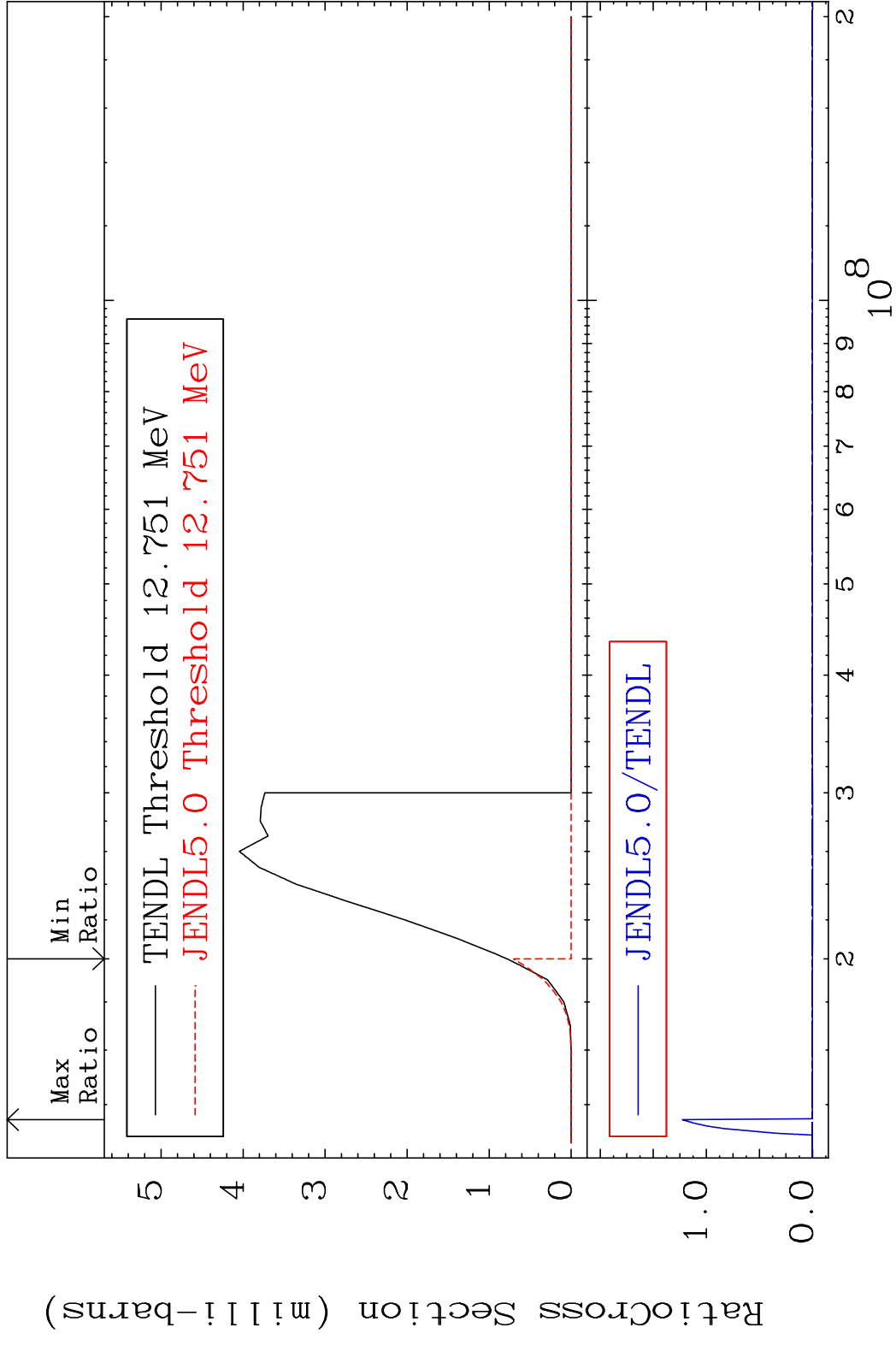


30 Incident Energy (eV) 28-Ni-64

MAT 2843 (n,d) 28-Ni-64
 Cross Section -100.0 To 162.1 %



MAT 2843 (n, t) 28-Ni-64
 Cross Section -100.0 To 9999. %

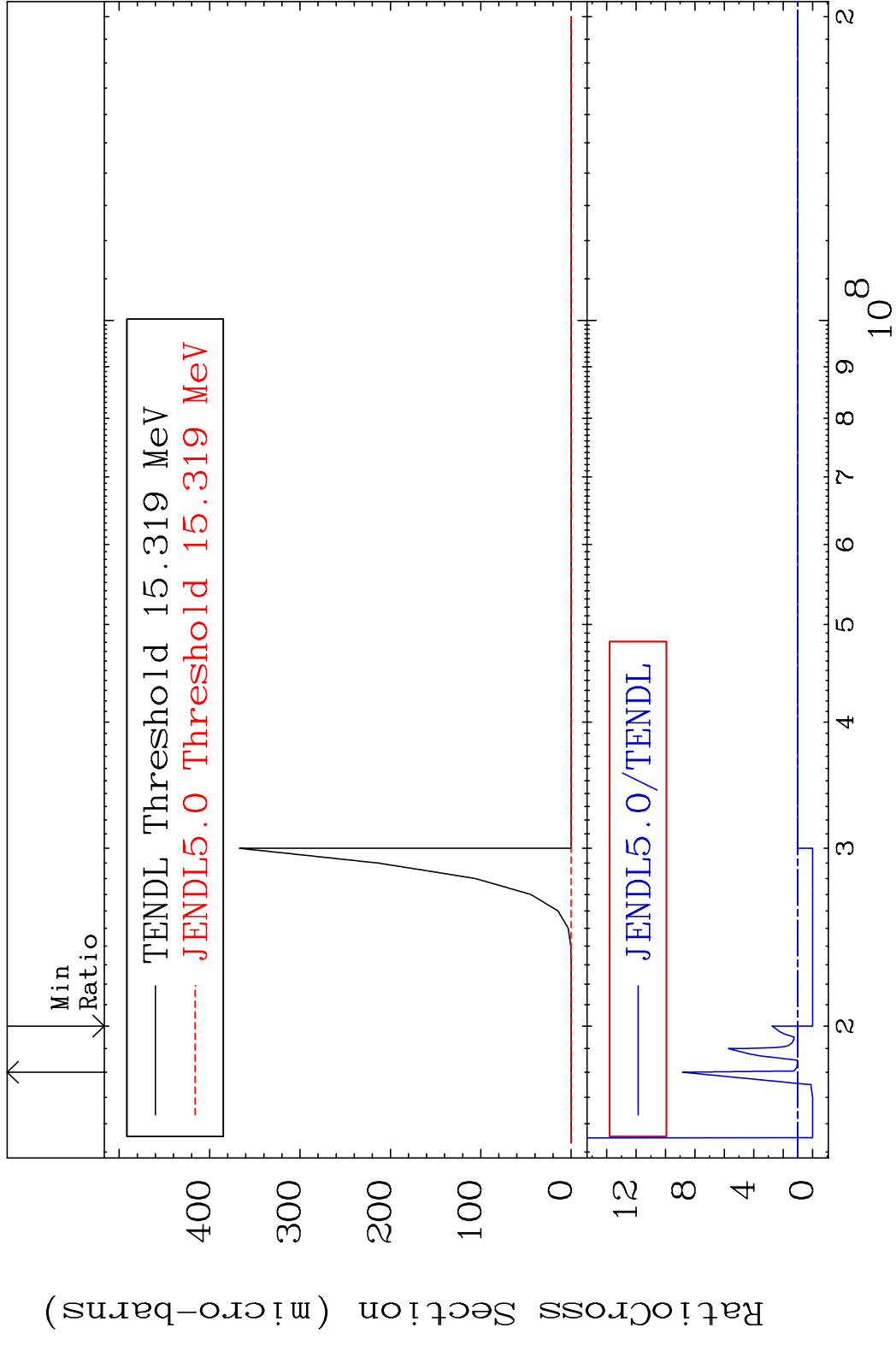


MAT 2843

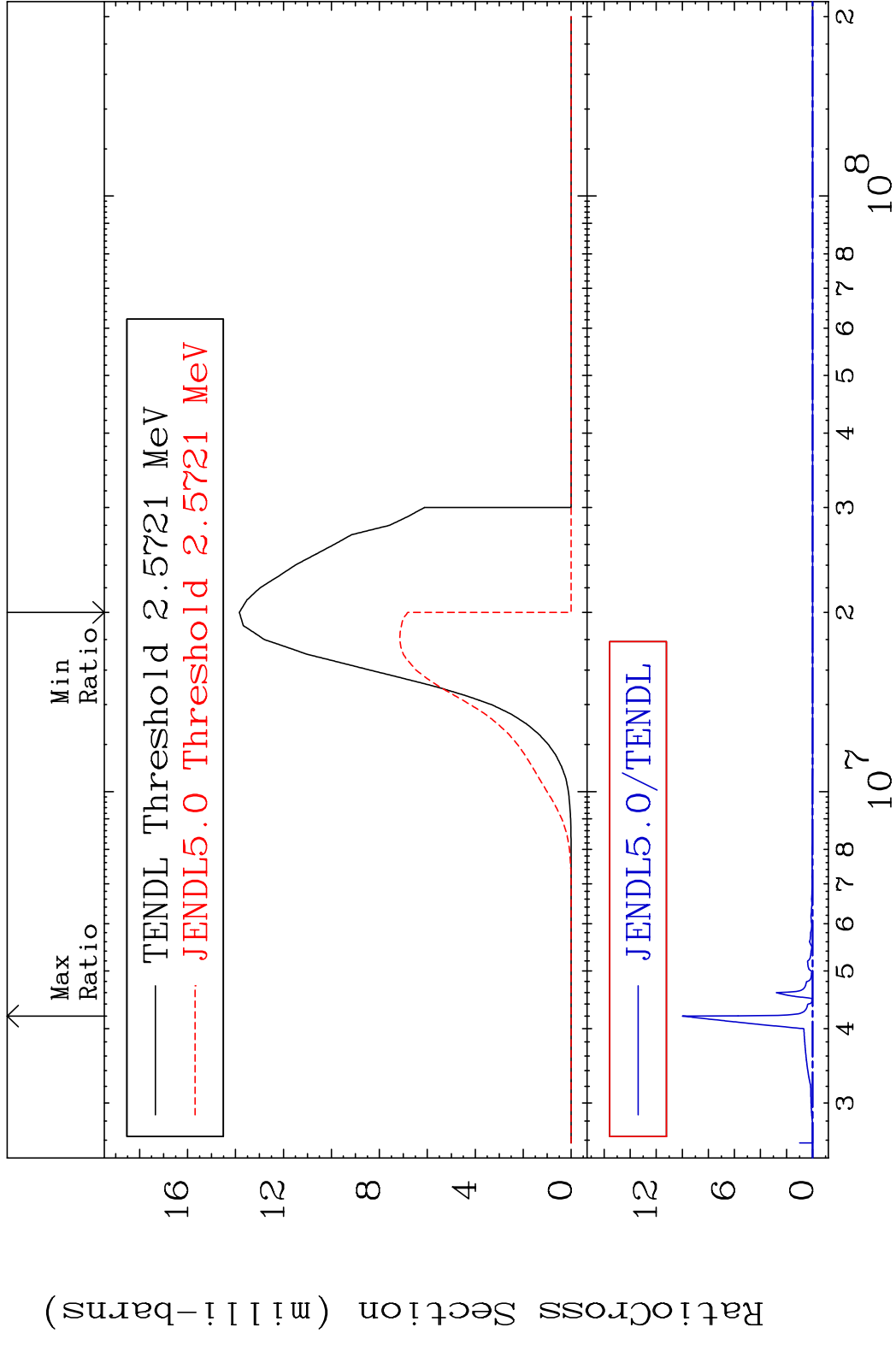
(n, He-3)

²⁸Ni-64

Cross Section -100.0 To 785.4 %

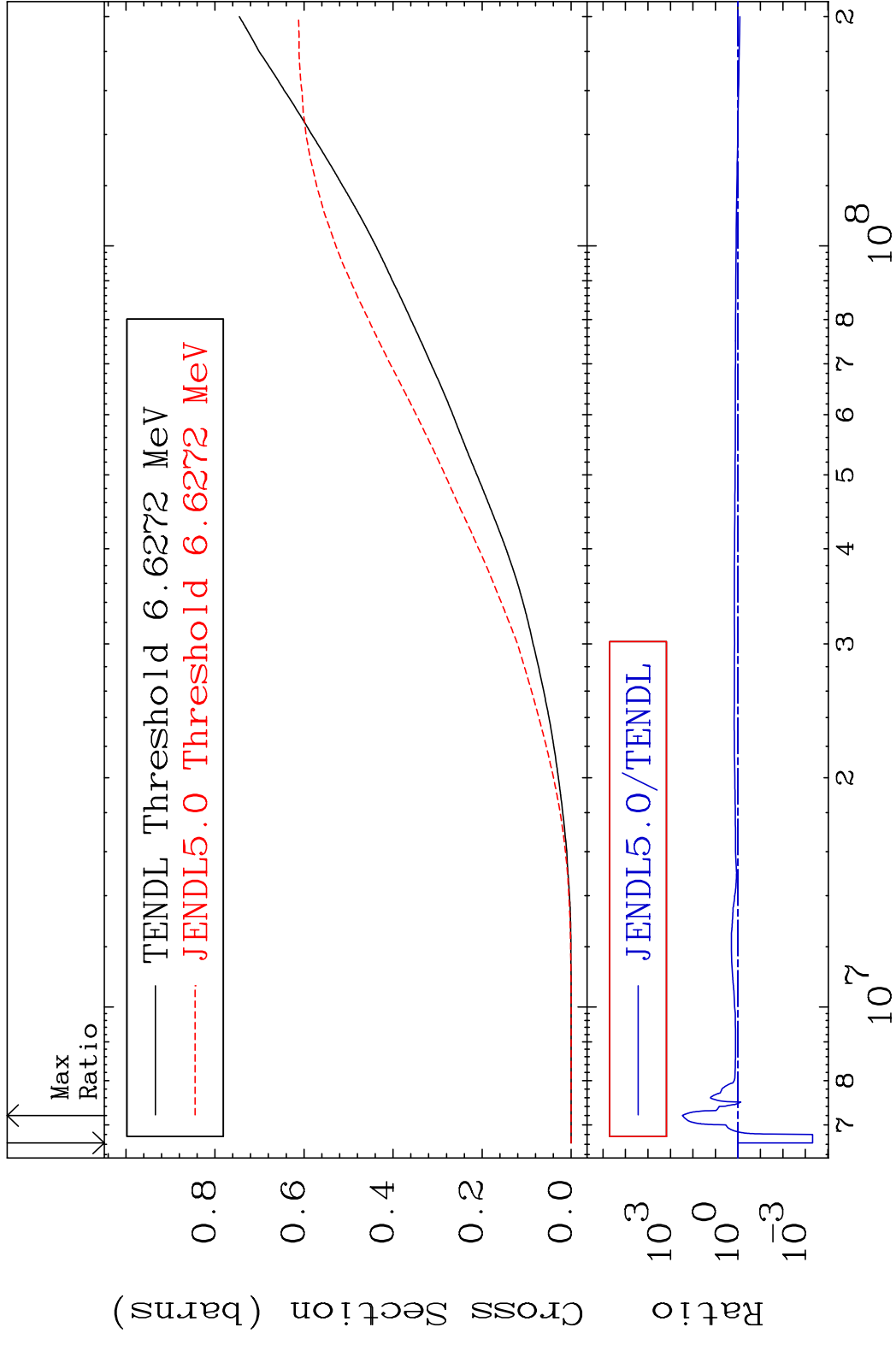


MAT 2843 (n,α) 28-Ni-64
 Cross Section -100.0 To 9999. %

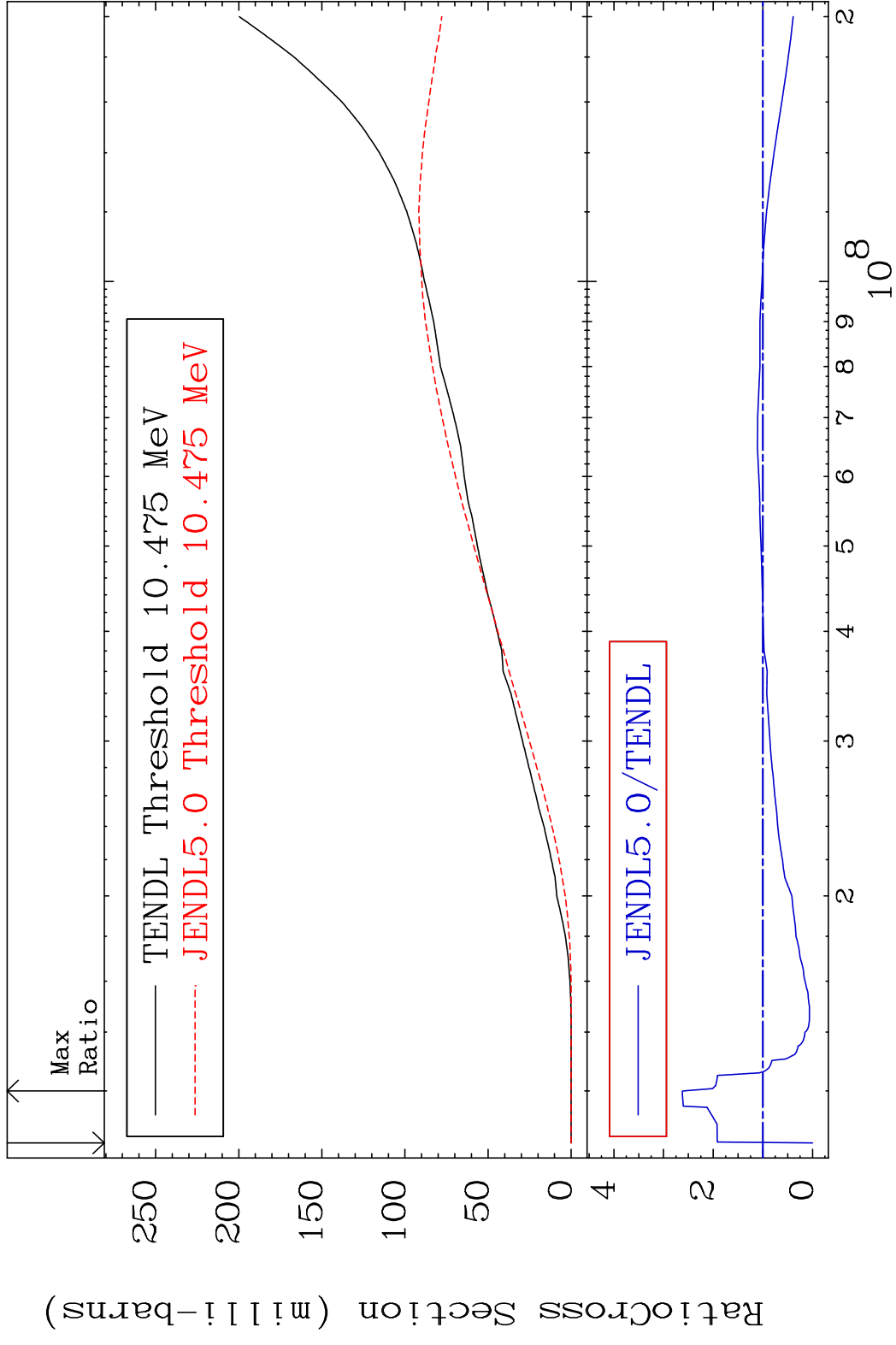


34 28-Ni-64

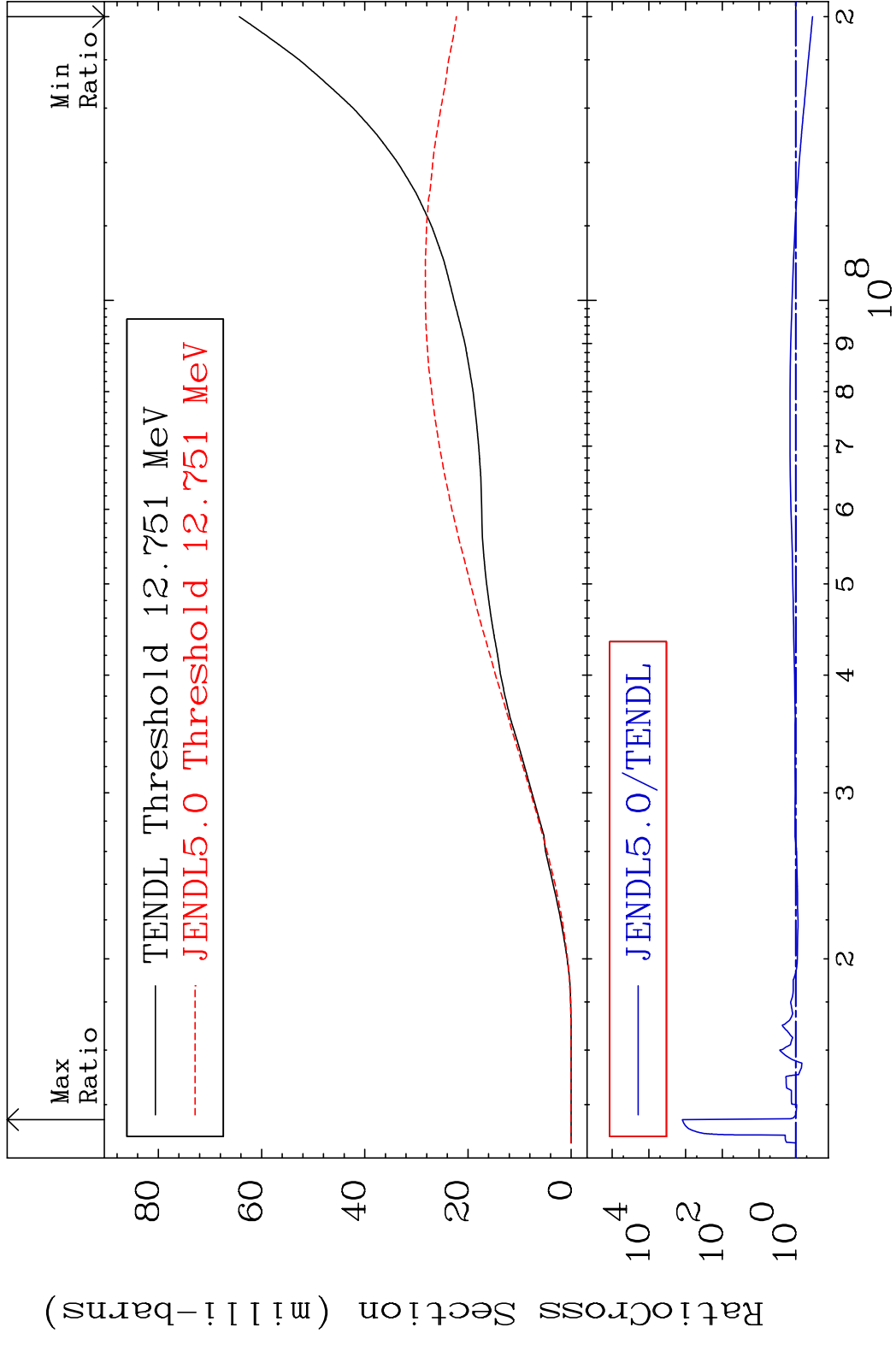
MAT 2843 Hydrogen Production 28-Ni-64
 Cross Section -99.95 To 9999. %



MAT 2843 Deuterium Production ²⁸Ni-64
 Cross Section -100.0 To 162.1 %



MAT 2843 Tritium Production 28-Ni-64
 Cross Section -65.44 To 9999. %

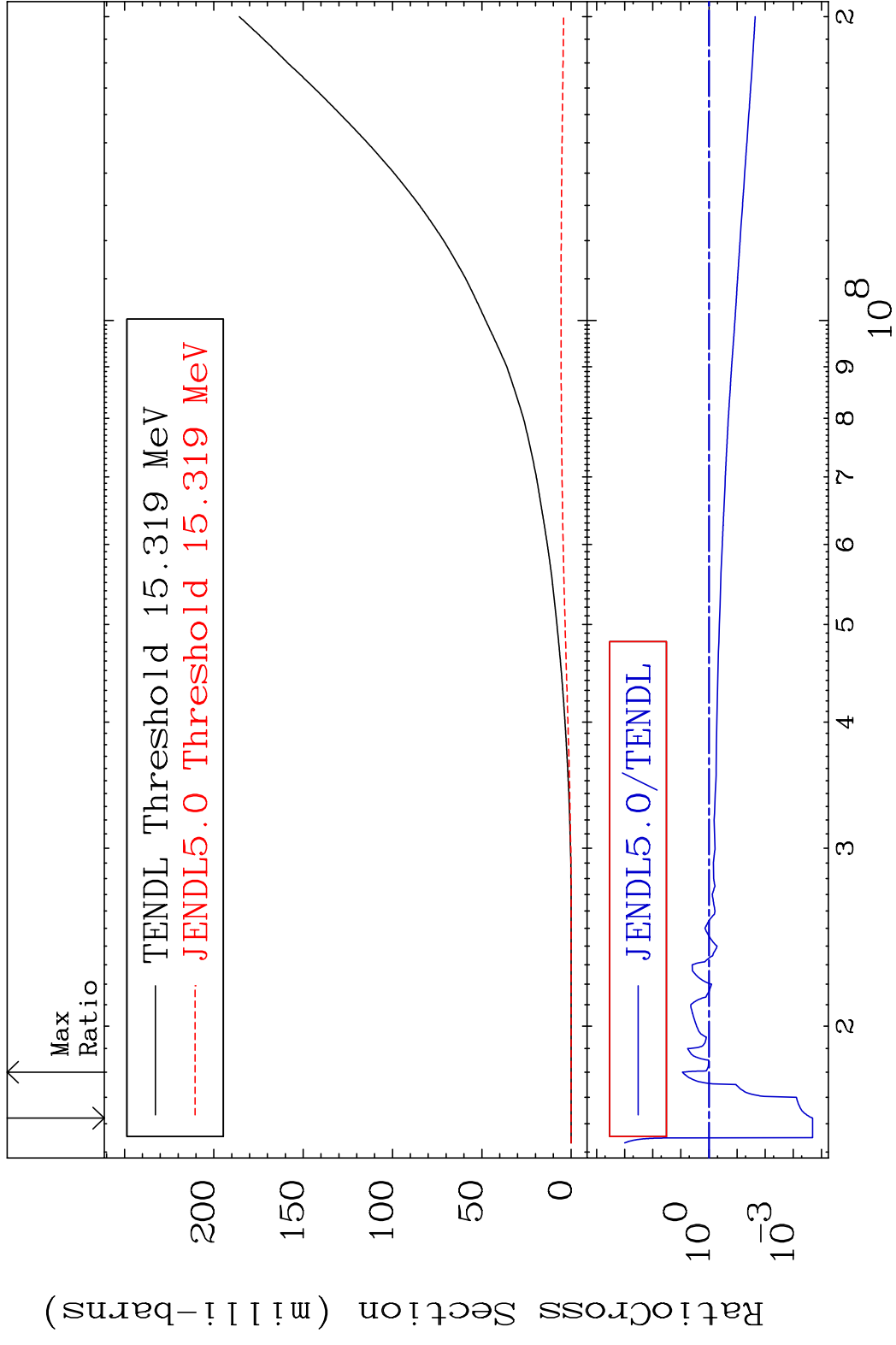


MAT 2843

He-3 Production

²⁸Ni-64

Cross Section -99.98 To 785.4 %

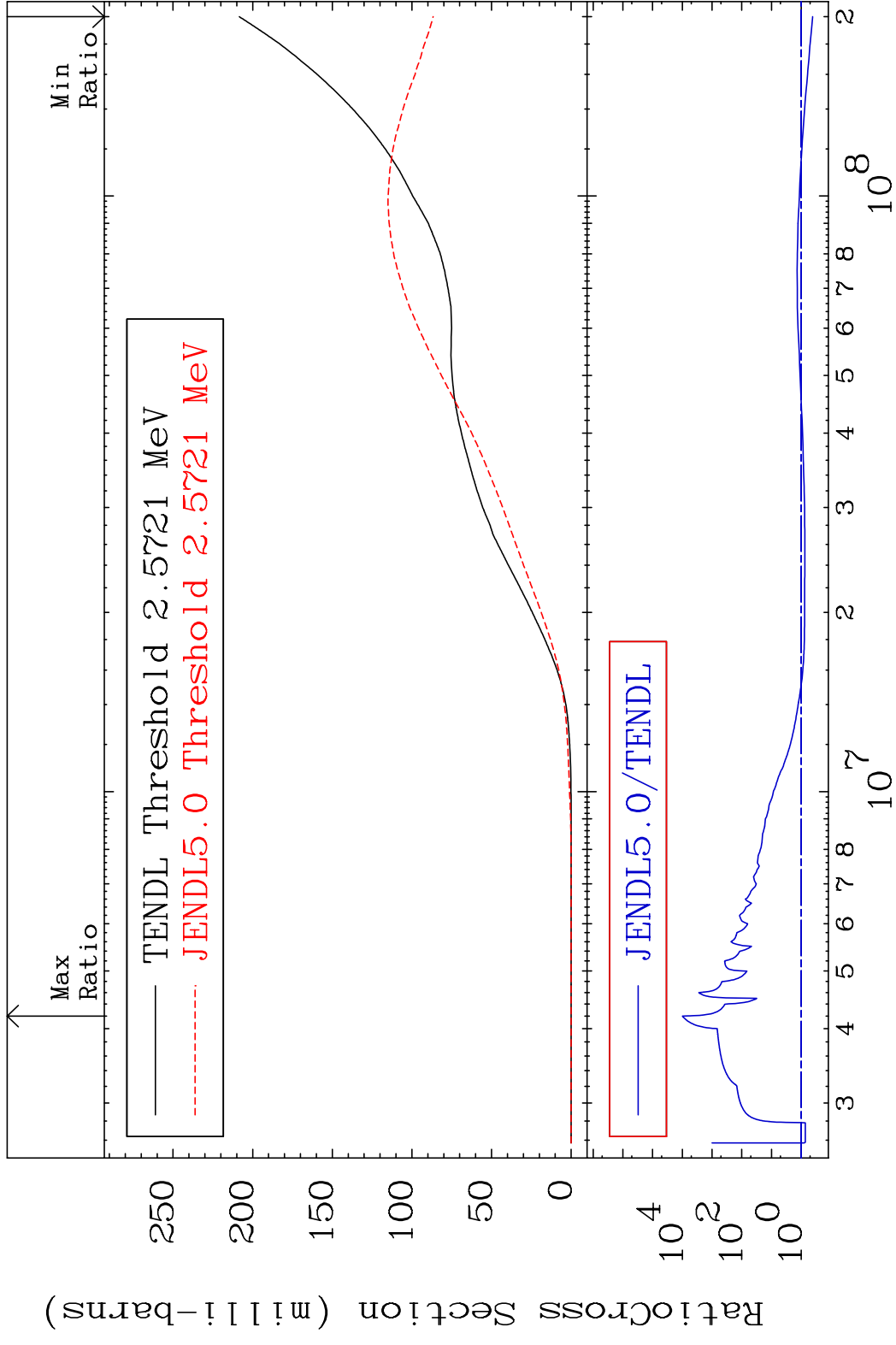


MAT 2843

He-4 Production

28-Ni-64

Cross Section -58.40 To 9999. %

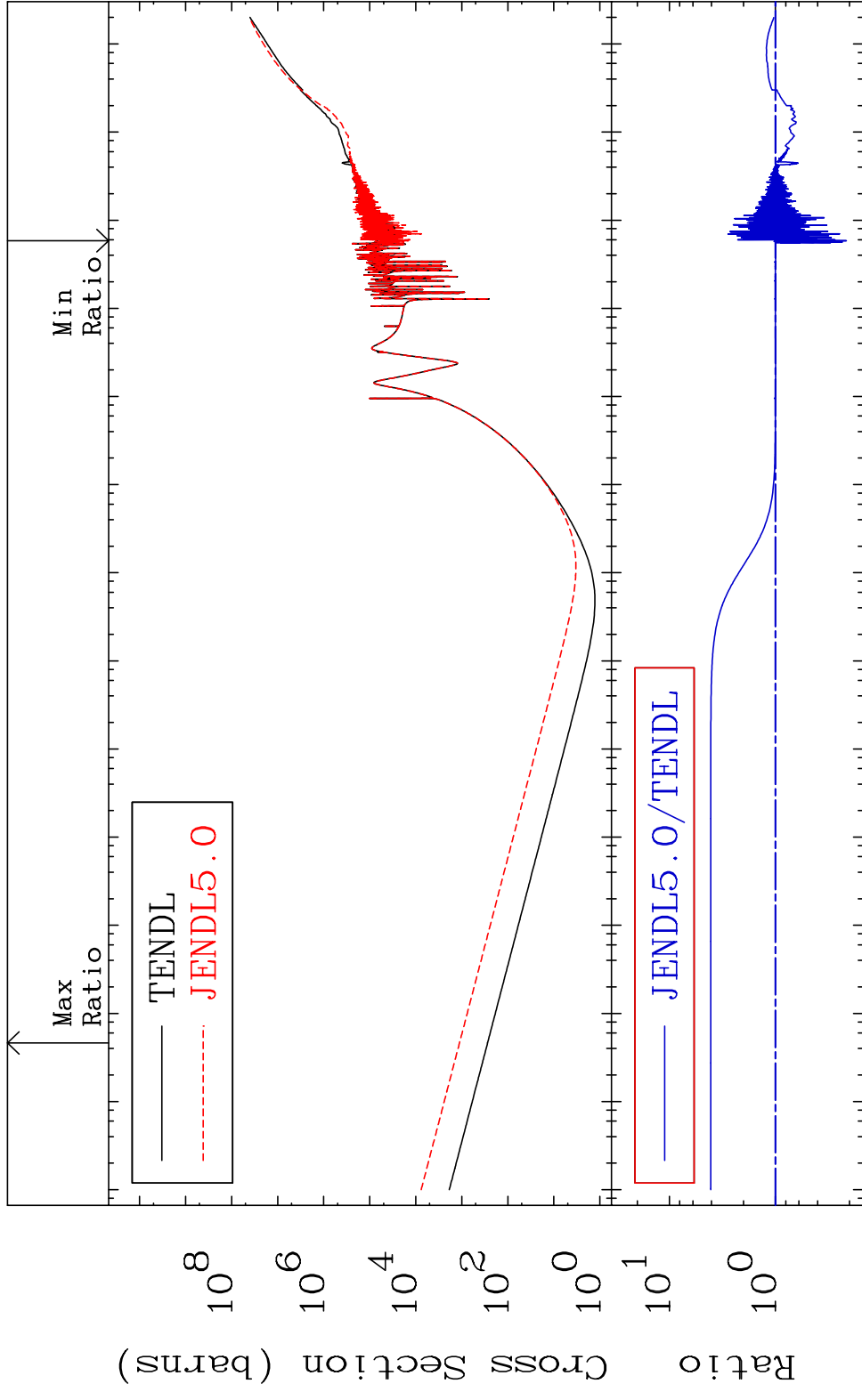


39

Incident Energy (eV)

28-Ni-64

MAT 2843 Kerma total (eV-barns) 28-Ni-64
 Cross Section -78.55 To 307.5 %

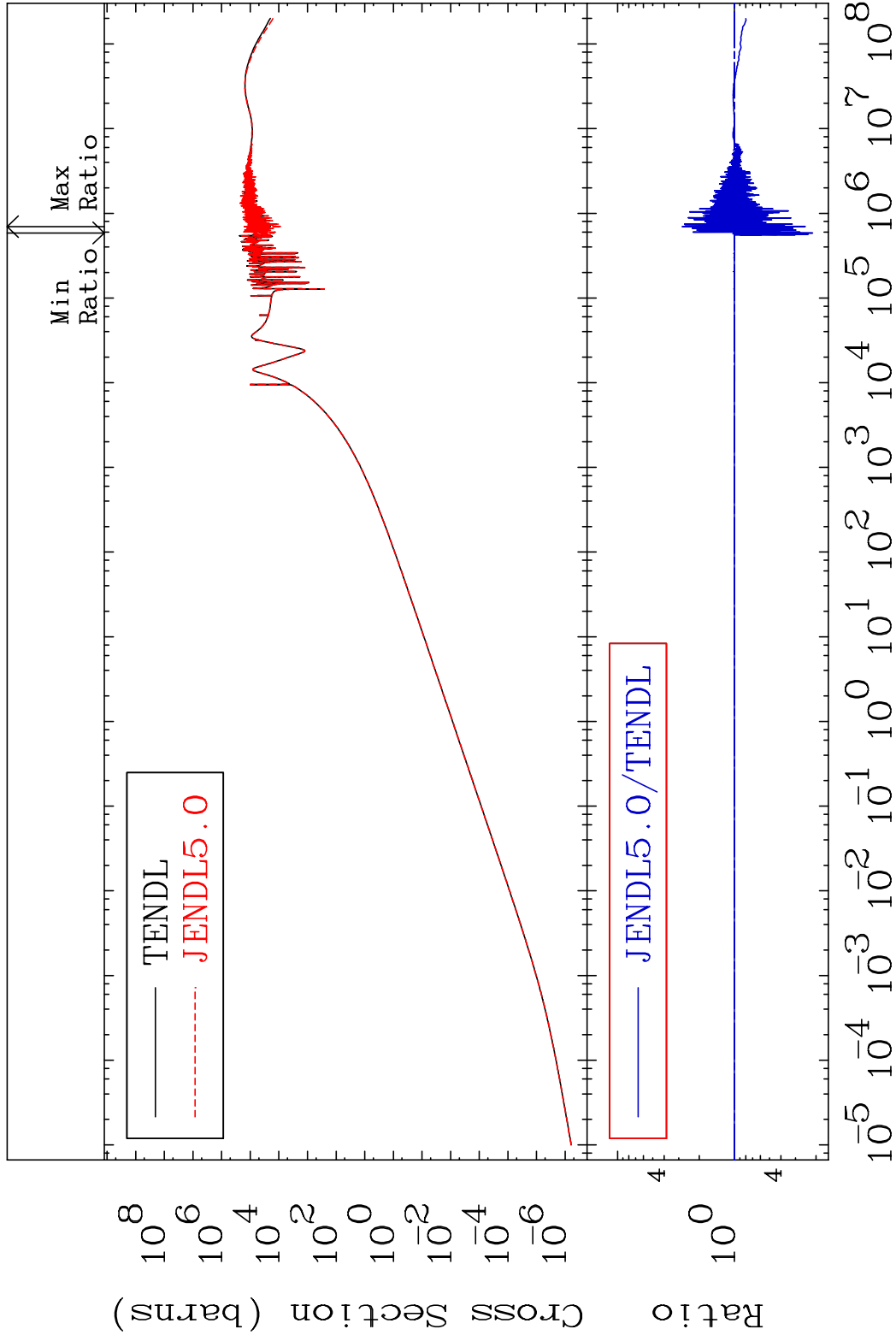


40 Incident Energy (eV) 28-Ni-64

MAT 2843

Kerma elastic
Cross Section

28-Ni-64
-78.55 To 178.9 %

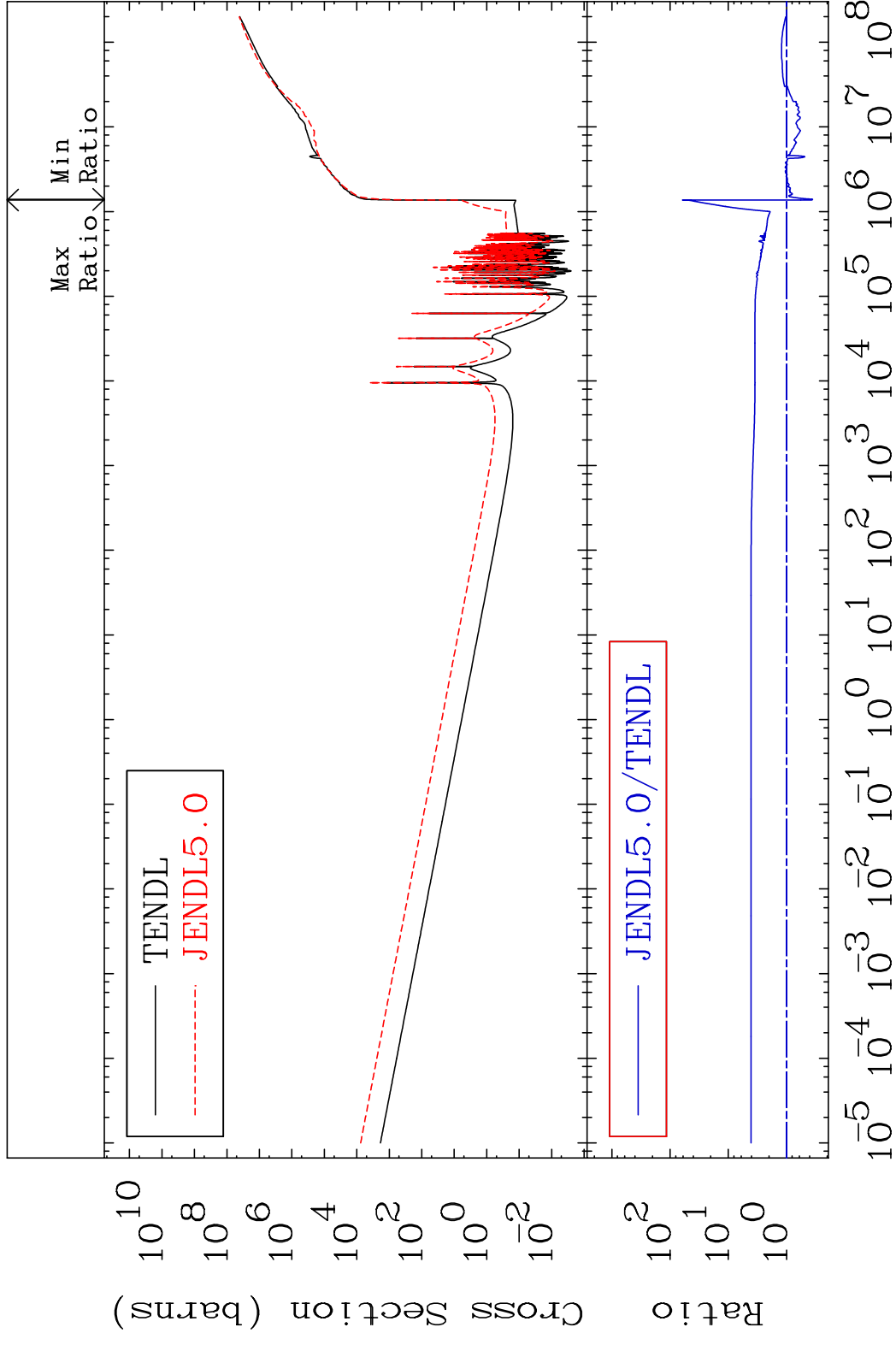


41

Incident Energy (eV)

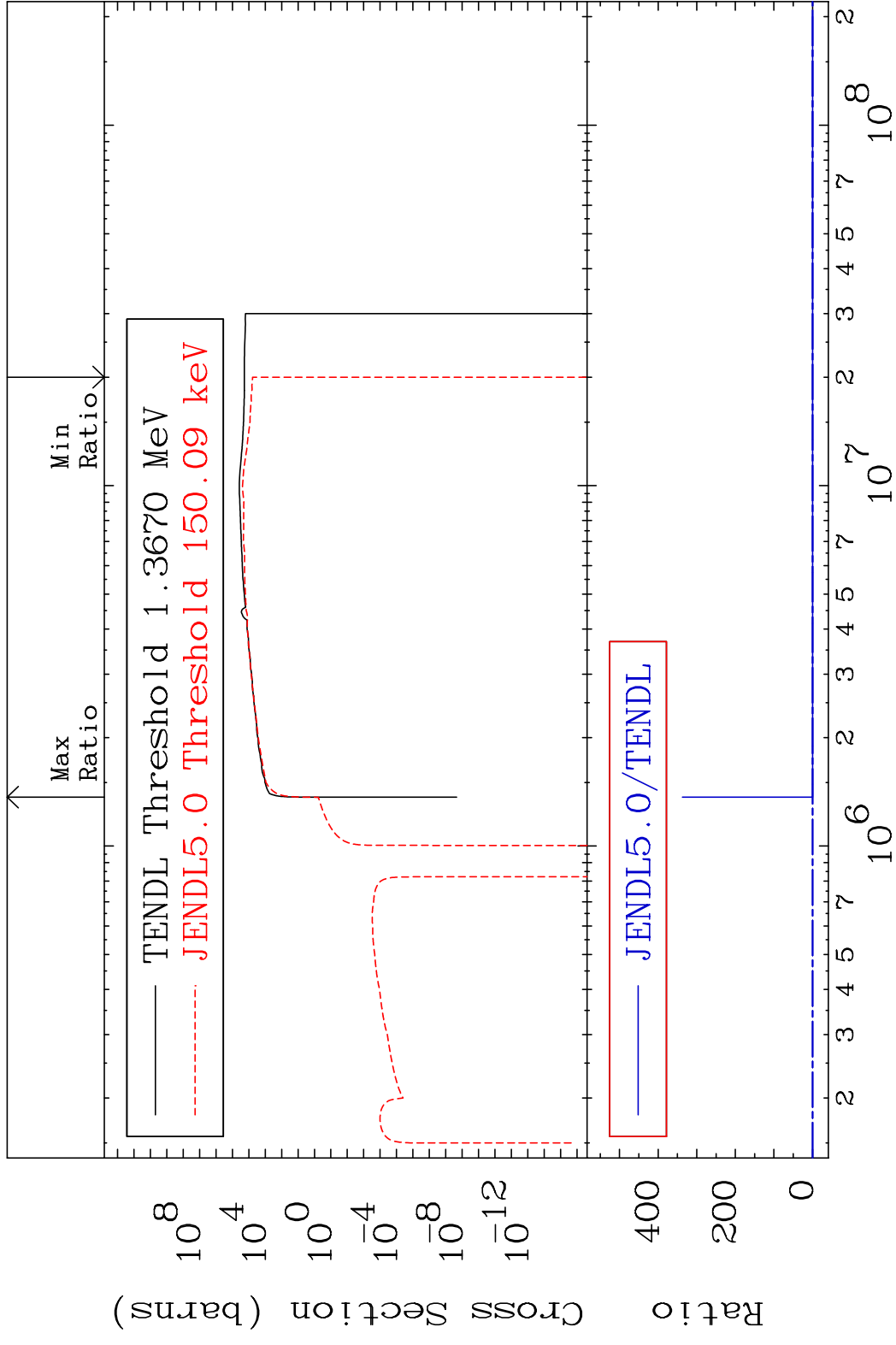
28-Ni-64

MAT 2843 Kerma non-elastic (all but mt2) 28-Ni-64
 Cross Section -64.31 To 6052. %

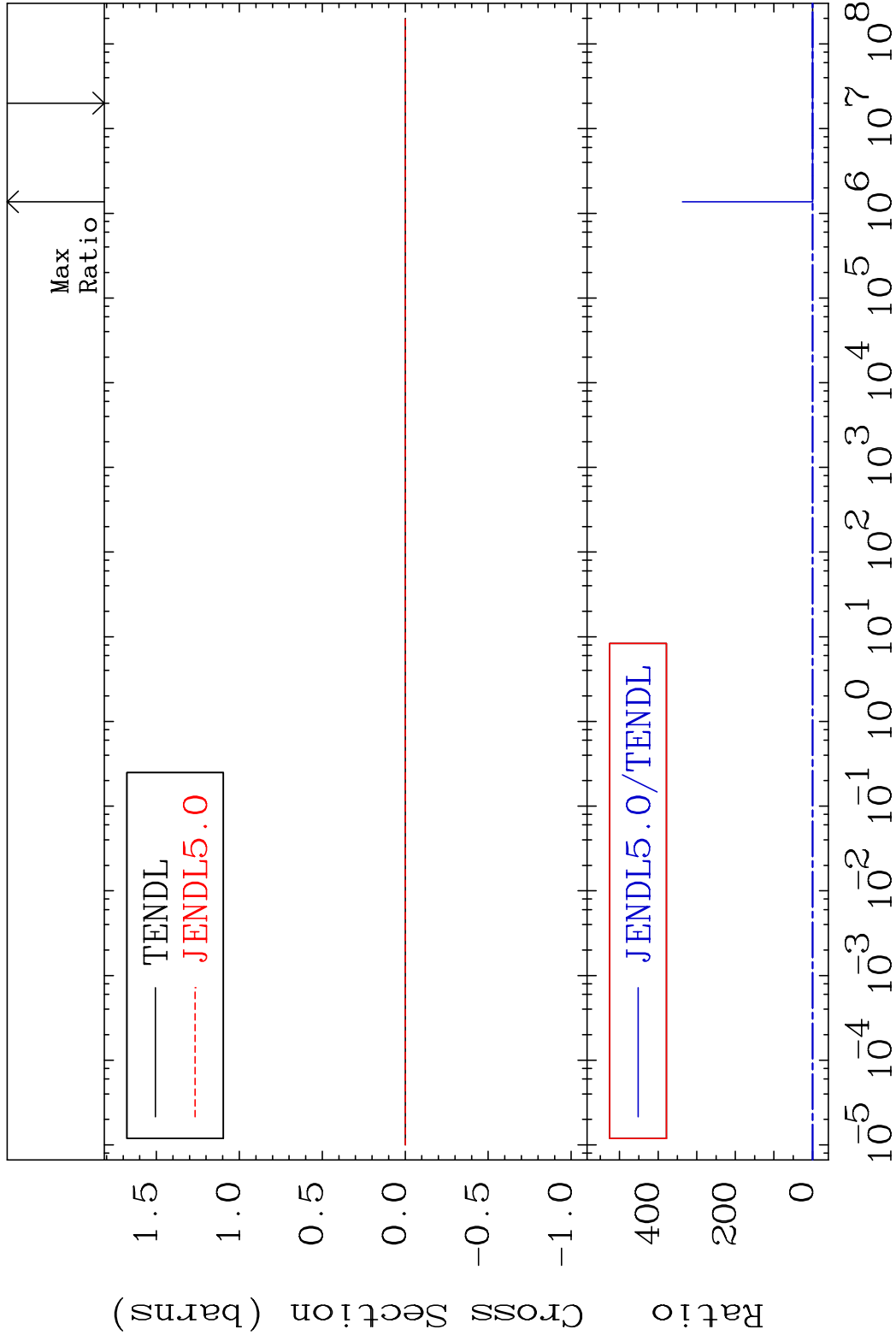


42 Incident Energy (eV) 28-Ni-64

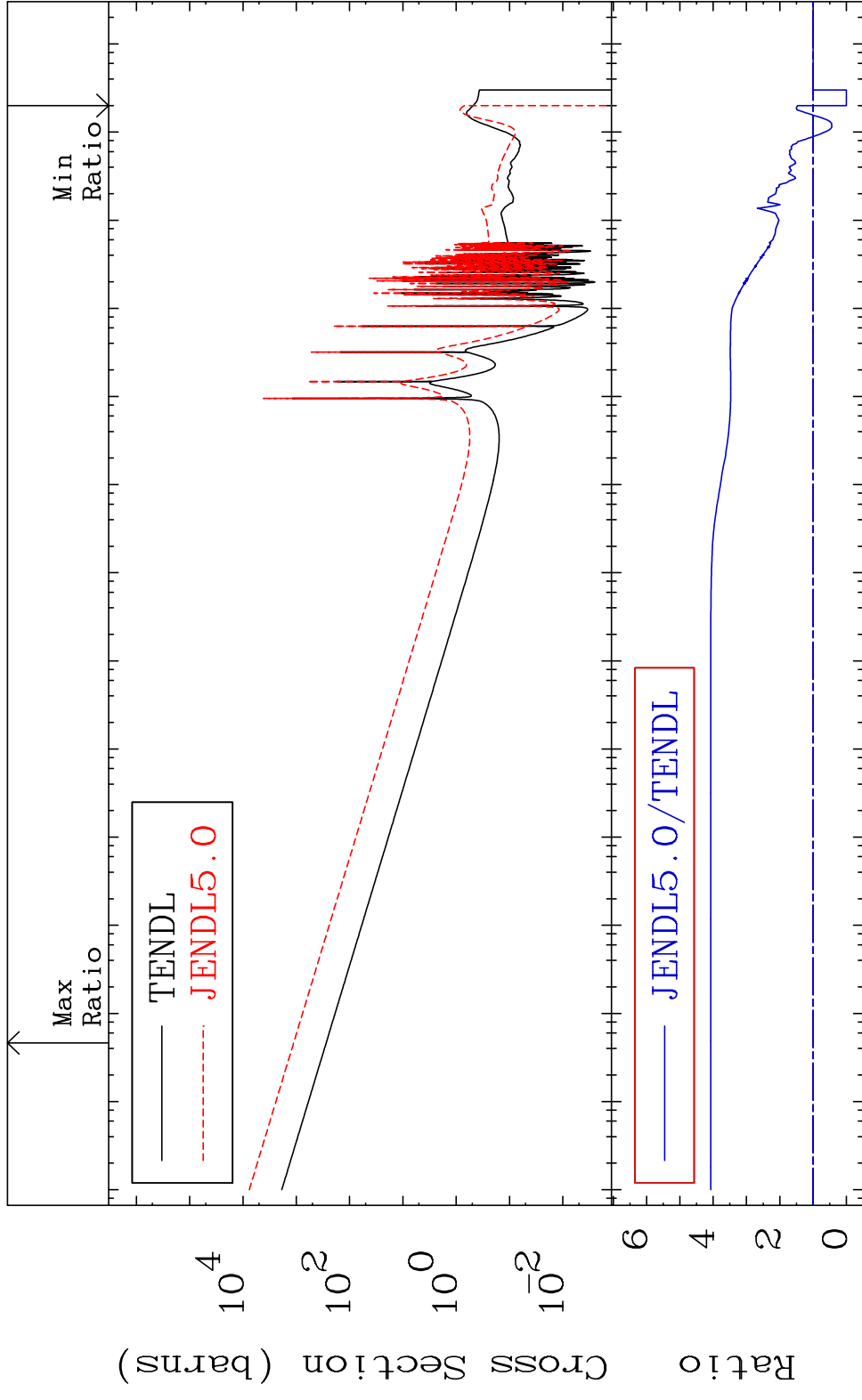
MAT 2843 Kerma inelastic (mt51-91) 28-Ni-64
 Cross Section -100.0 To 9999. %



MAT 2843 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-64
 Cross Section -100.0 To 9999. %

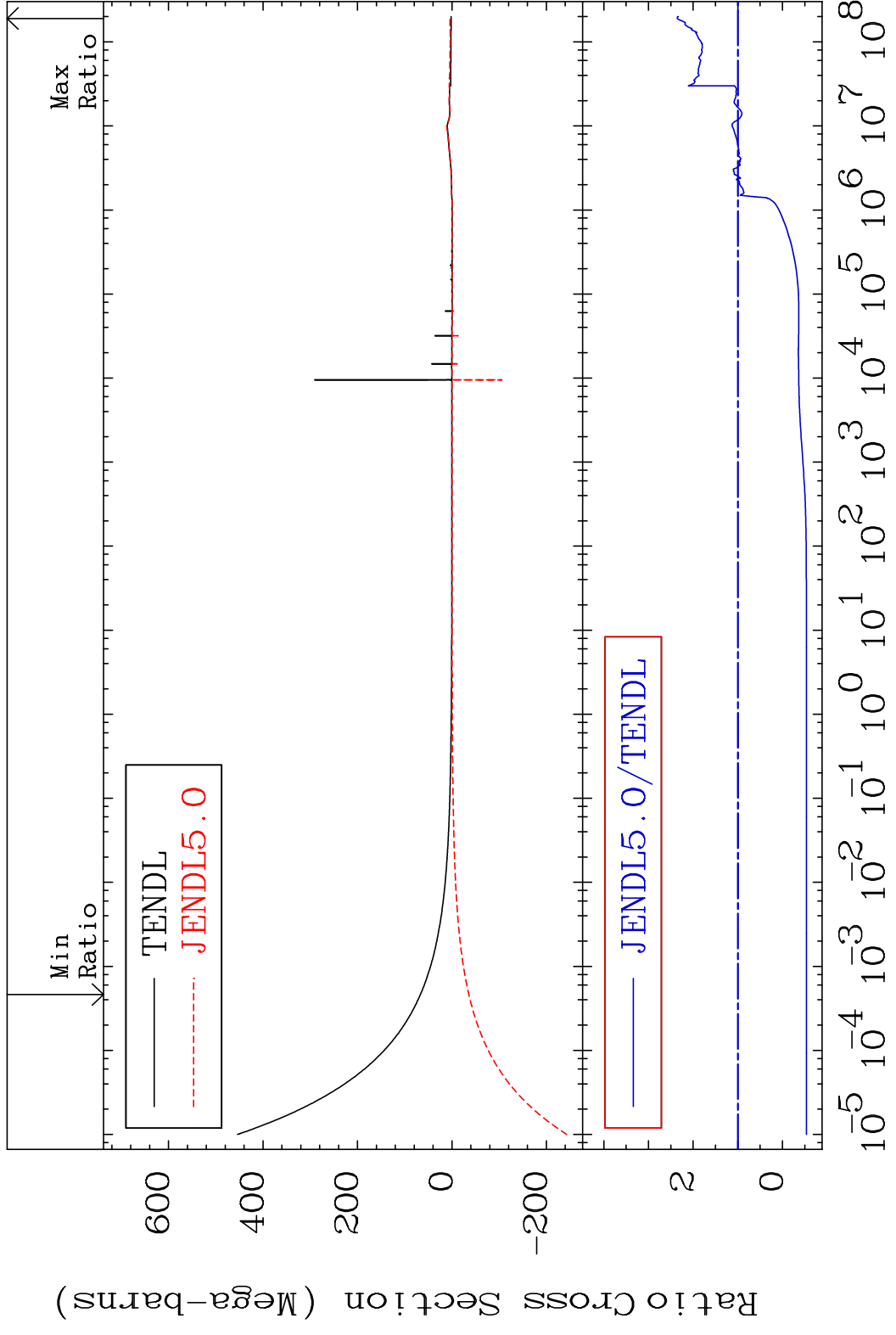


MAT 2843 Kerma capture (mt102) 28-Ni-64
 Cross Section -100.0 To 307.5 %



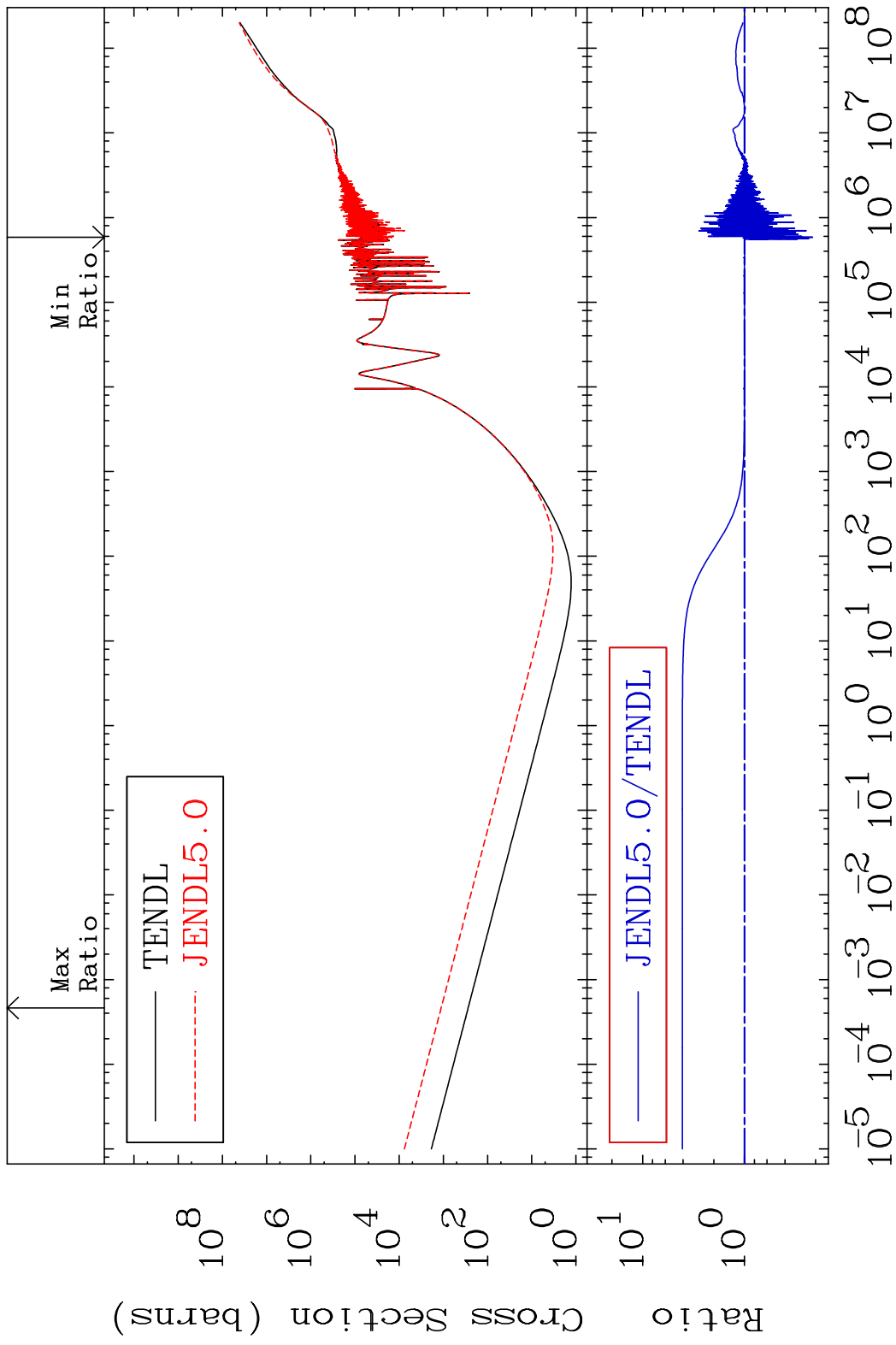
45 Incident Energy (eV) 28-Ni-64

MAT 2843 Total photon (eV-barns) 28-Ni-64
Cross Section -153.6 To 135.8 %

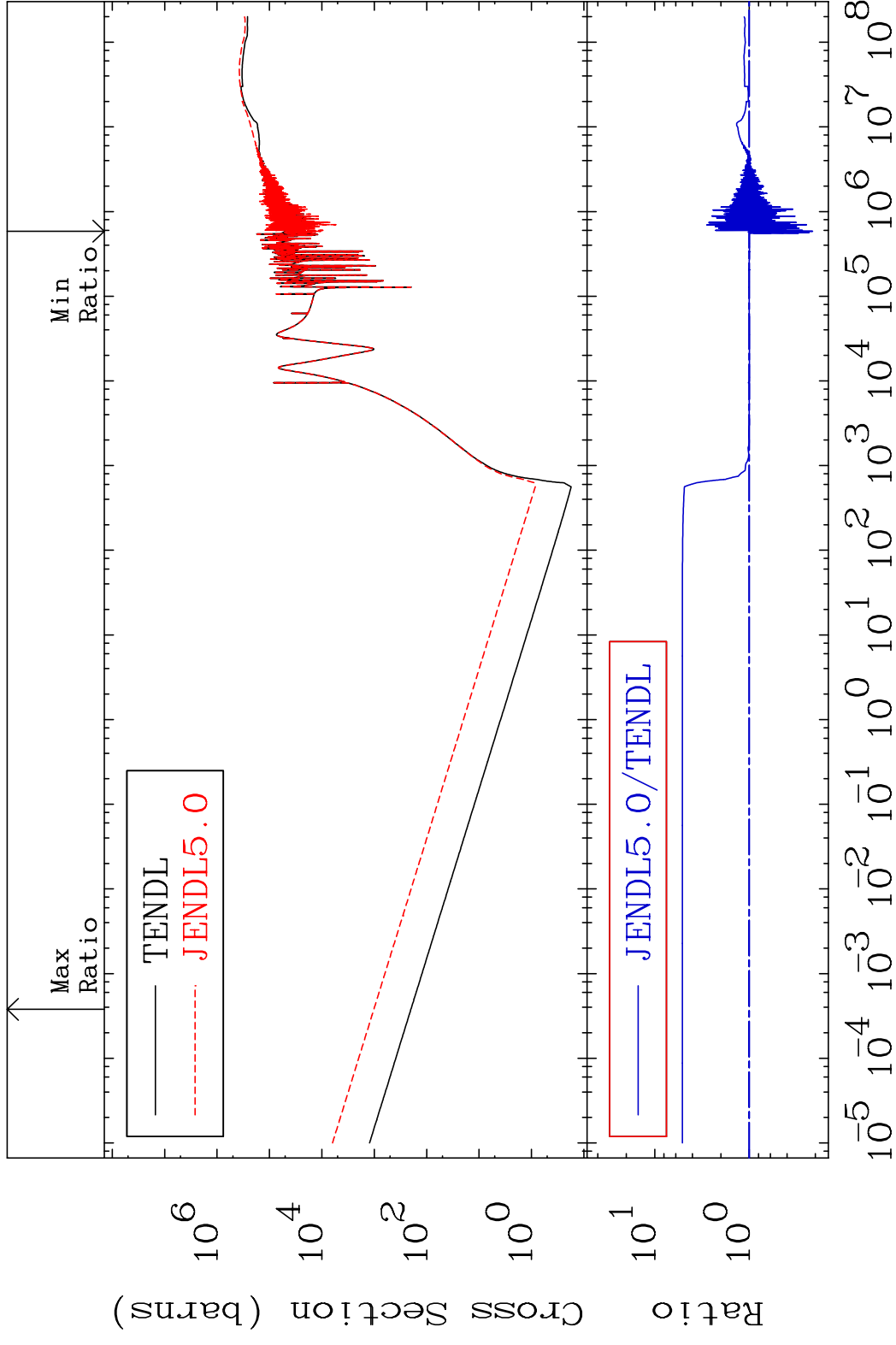


46 Incident Energy (eV) 28-Ni-64

MAT 2843 Total kinematic kerma (high limit) 28-Ni-64
Cross Section -78.55 To 307.5 %



MAT 2843 Dpa total (eV-barns) 28-Ni-64
 Cross Section -78.54 To 410.2 %

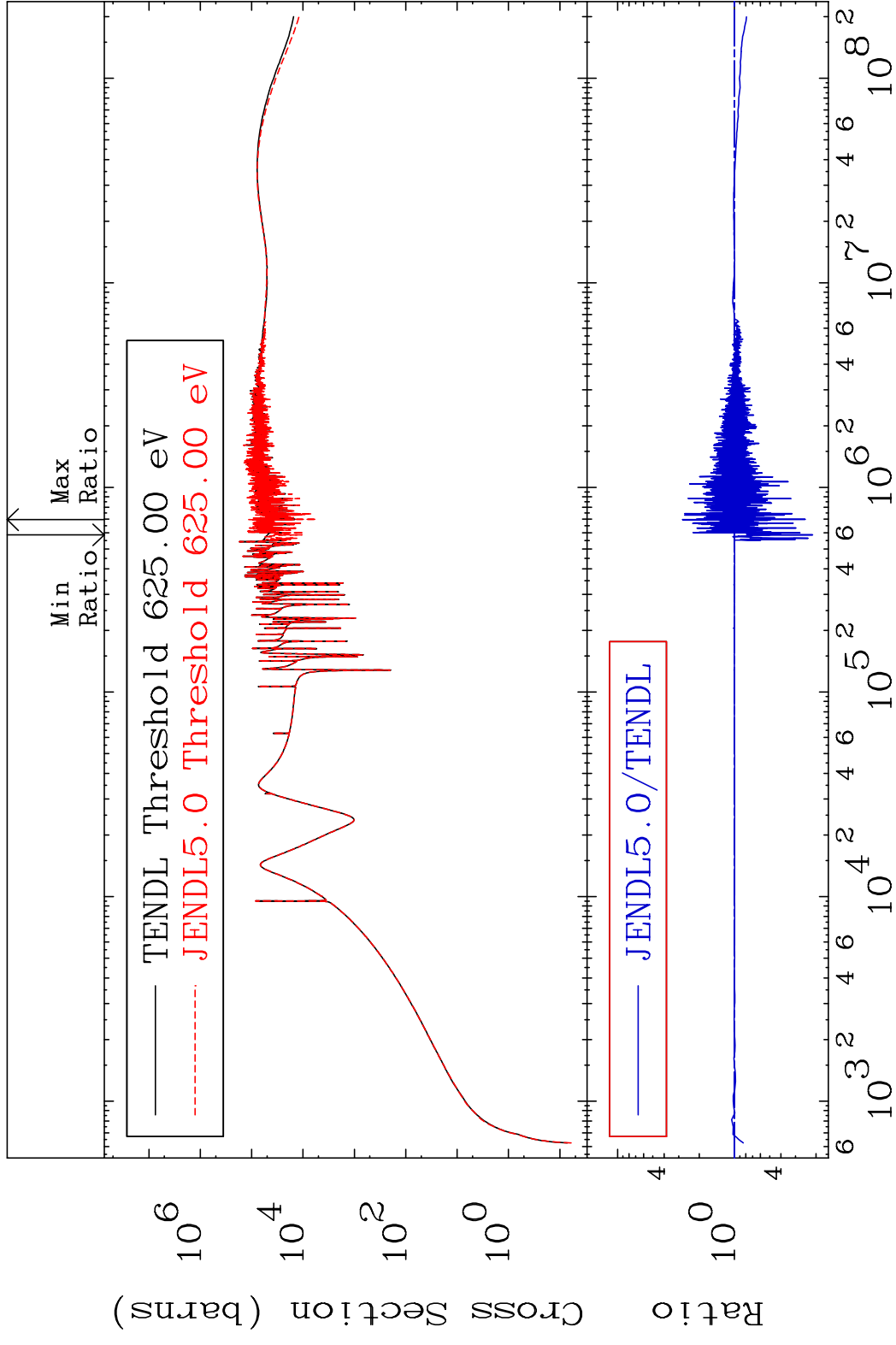


MAT 2843

Dpa elastic (mt2)

28-Ni-64

Cross Section -78.54 To 179.3 %

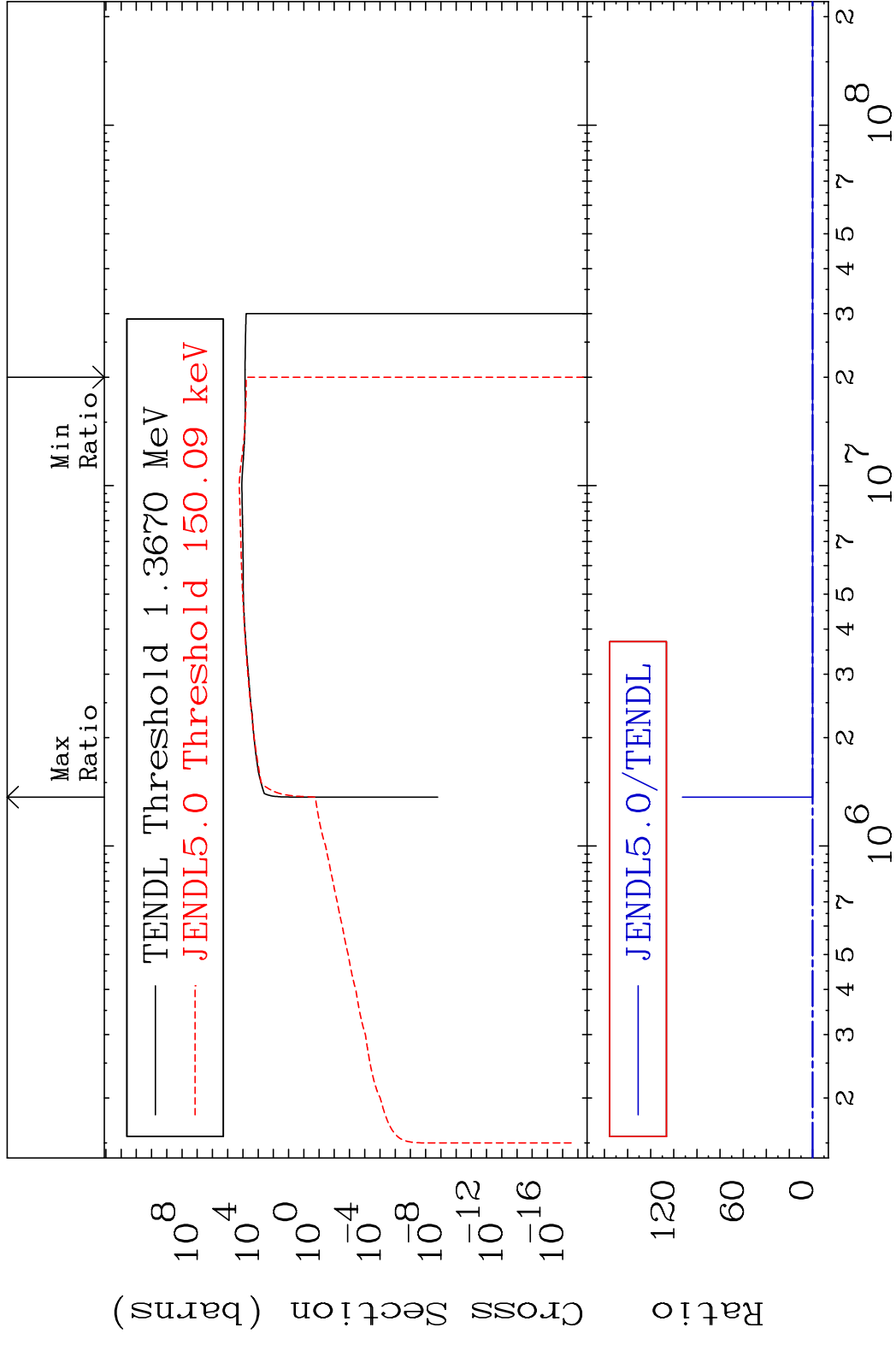


49

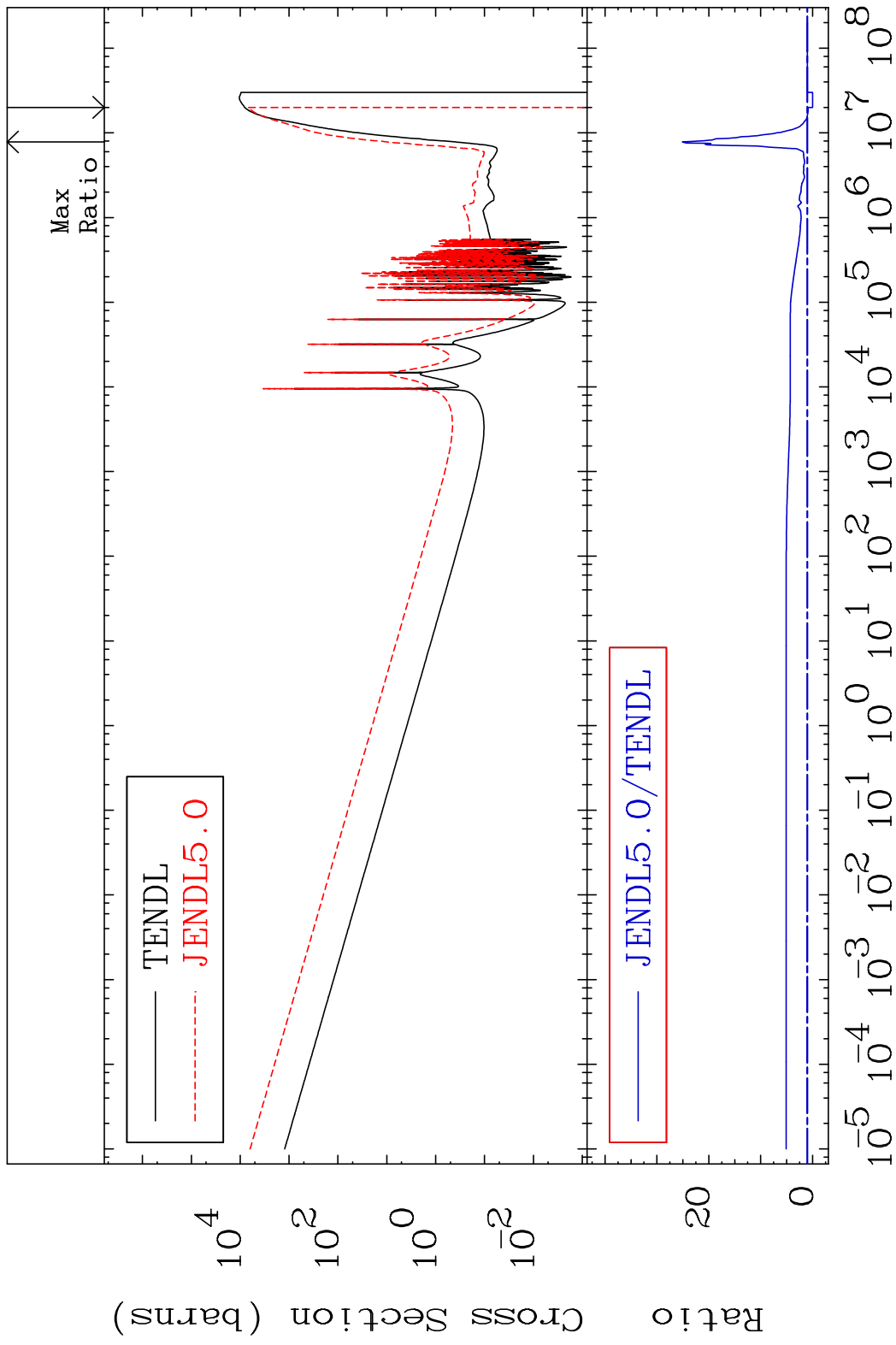
Incident Energy (eV)

28-Ni-64

MAT 2843 Dpa inelastic (mt51-91) 28-Ni-64
 Cross Section -100.0 To 9999. %

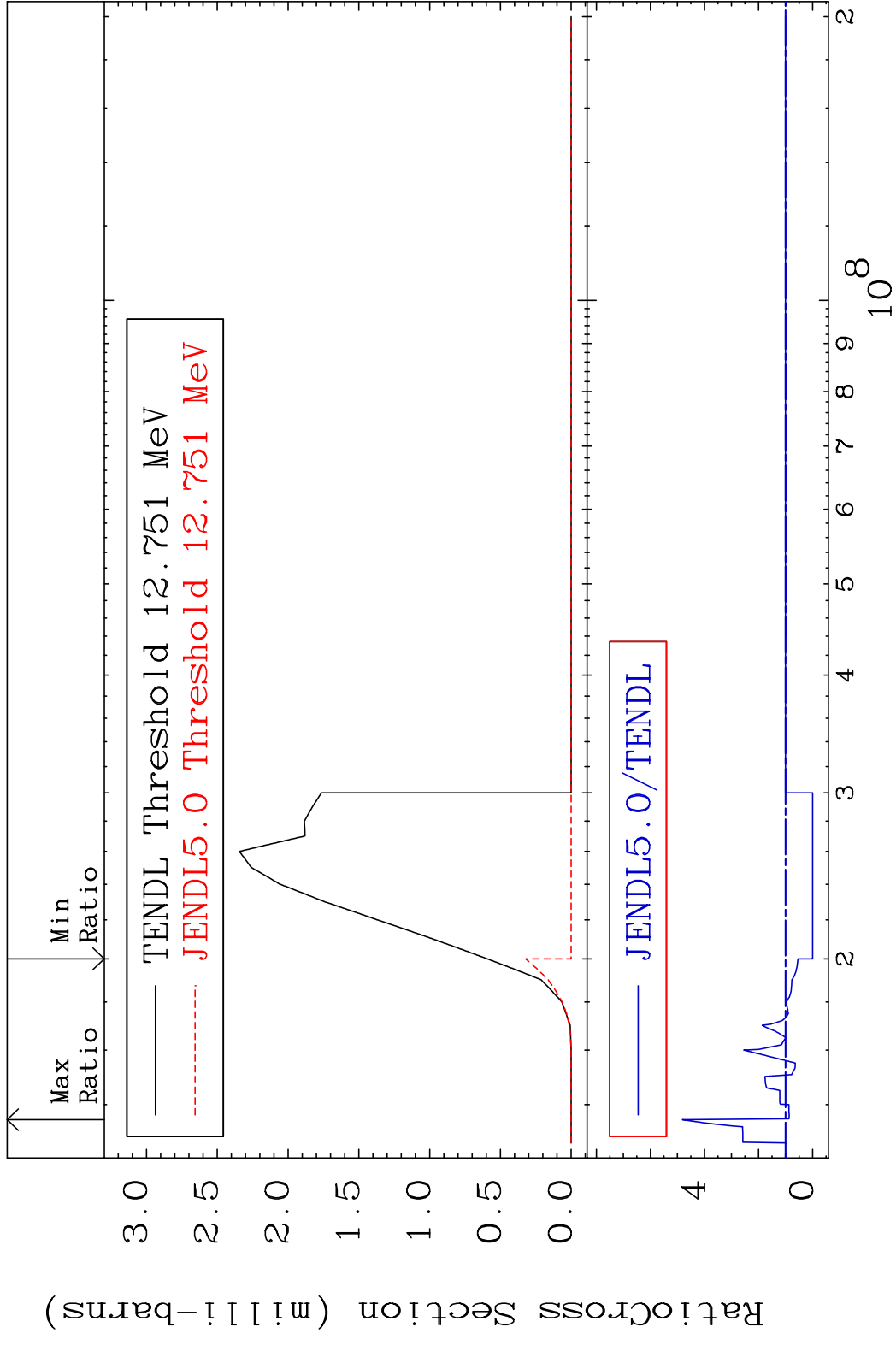


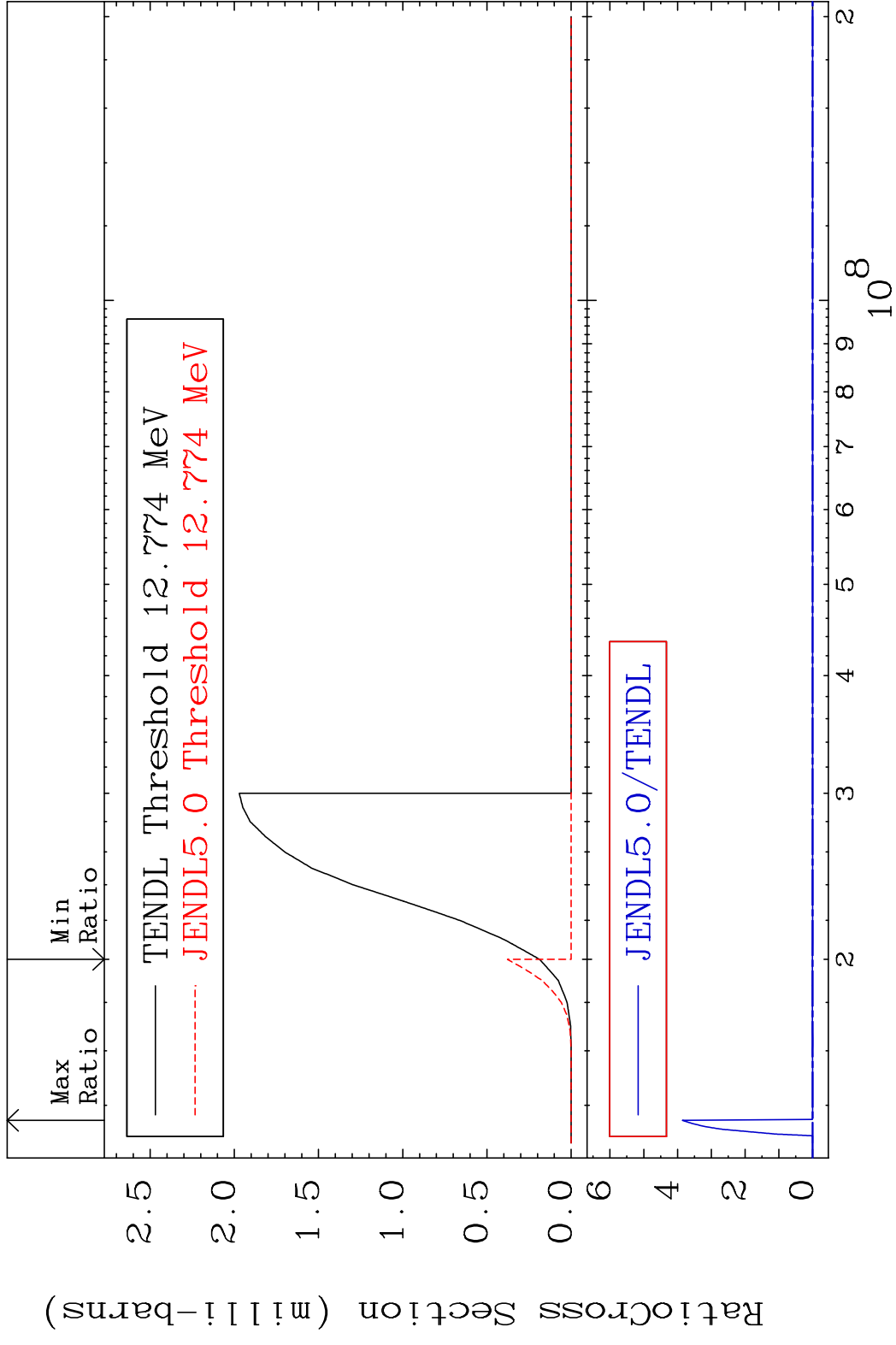
MAT 2843 Dpa disappearance (mt102 -120) 28-Ni-64
 Cross Section -100.0 To 2410. %



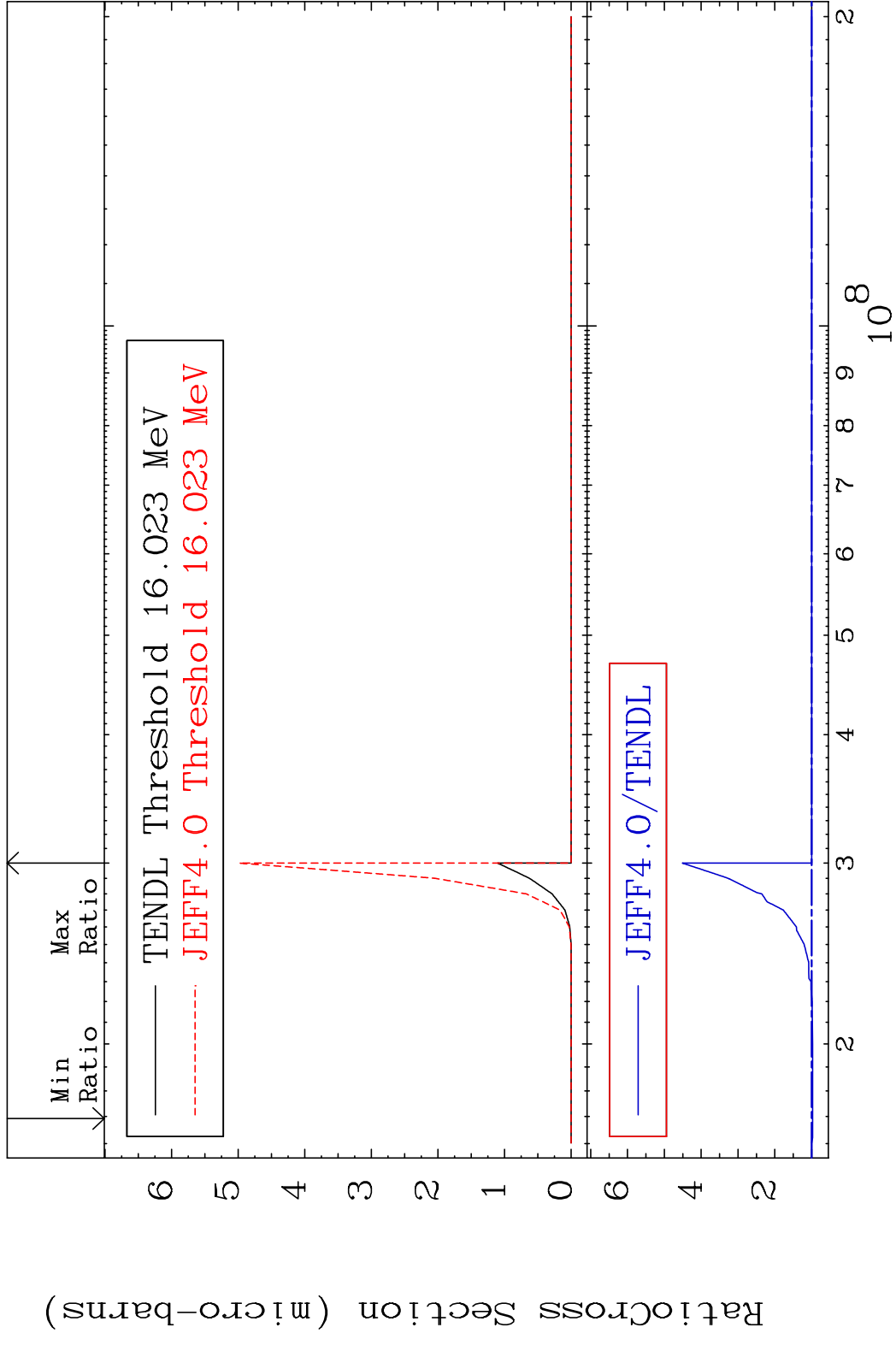
51 Incident Energy (eV) 28-Ni-64

MAT 2843 (n, t): 27-Co-62g 28-Ni-64
 Radionuclide Production Cross Section 180.0 mb 381.7 %

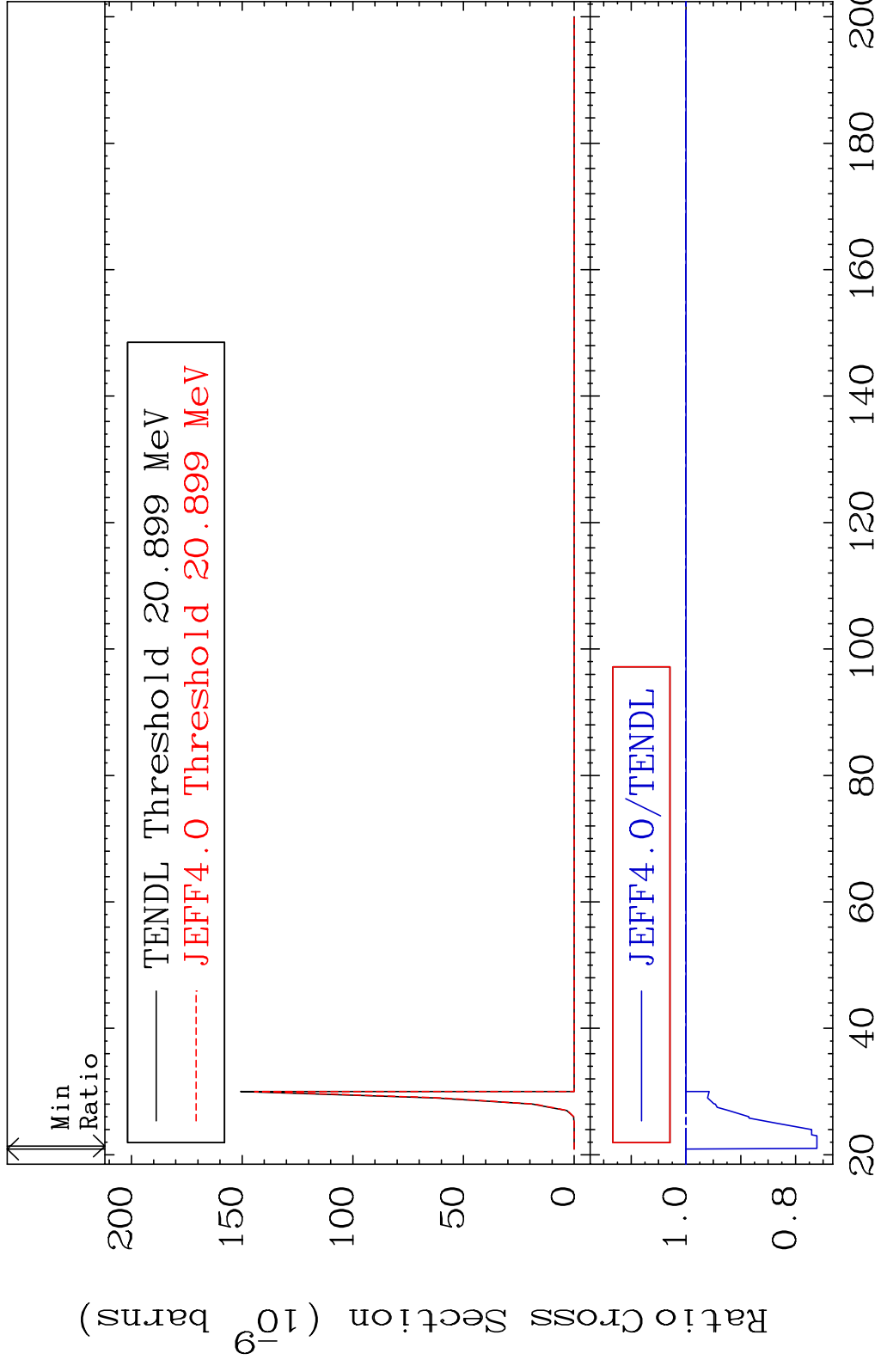




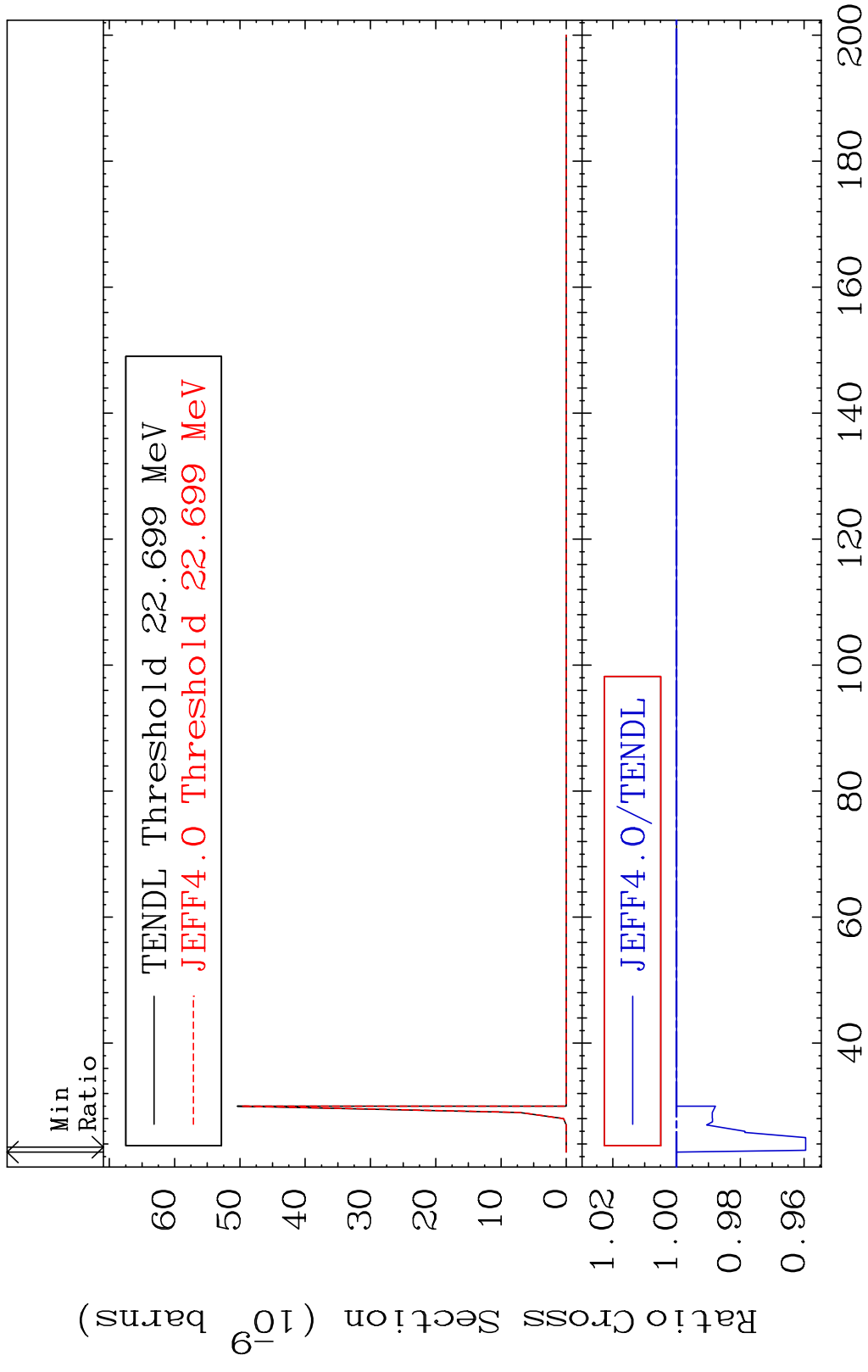
MAT 2843 (n,p) α 28-Ni-64
 Cross Section -2.489 To 351.1 %



MAT 2843 (n,p) d 28-Ni-64
 Cross Section -23.88 To 0.000 %



MAT 2843 (n,p) t 28-Ni-64
 Cross Section -4.050 To 0.000 %

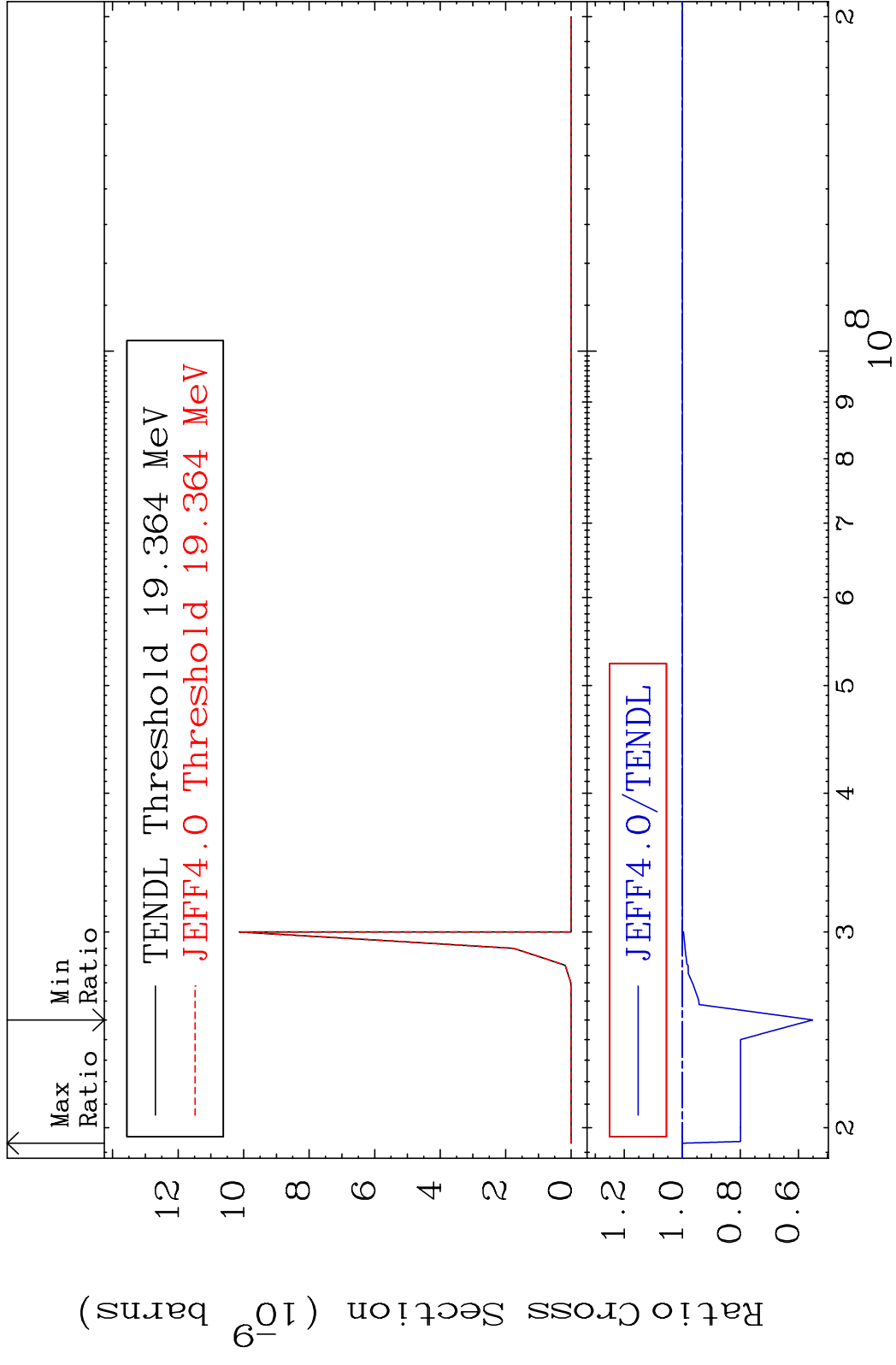


MAT 2843

(n,d) α

28-Ni-64

Cross Section -44.85 To 0.000 %



57

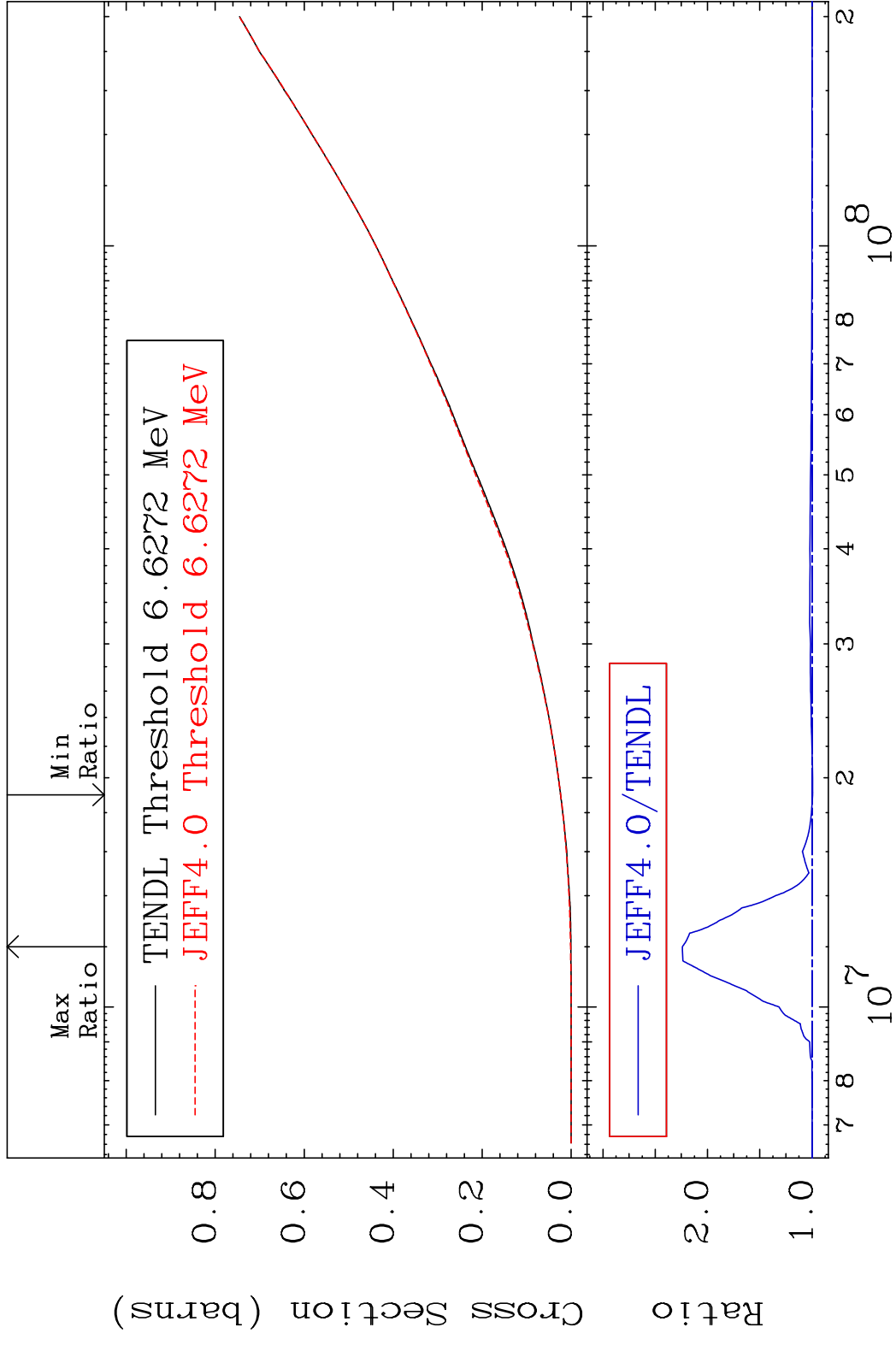
Incident Energy (eV)

28-Ni-64

MAT 2843

Hydrogen Production ²⁸Ni-64

Cross Section -0.481 To 124.0 %

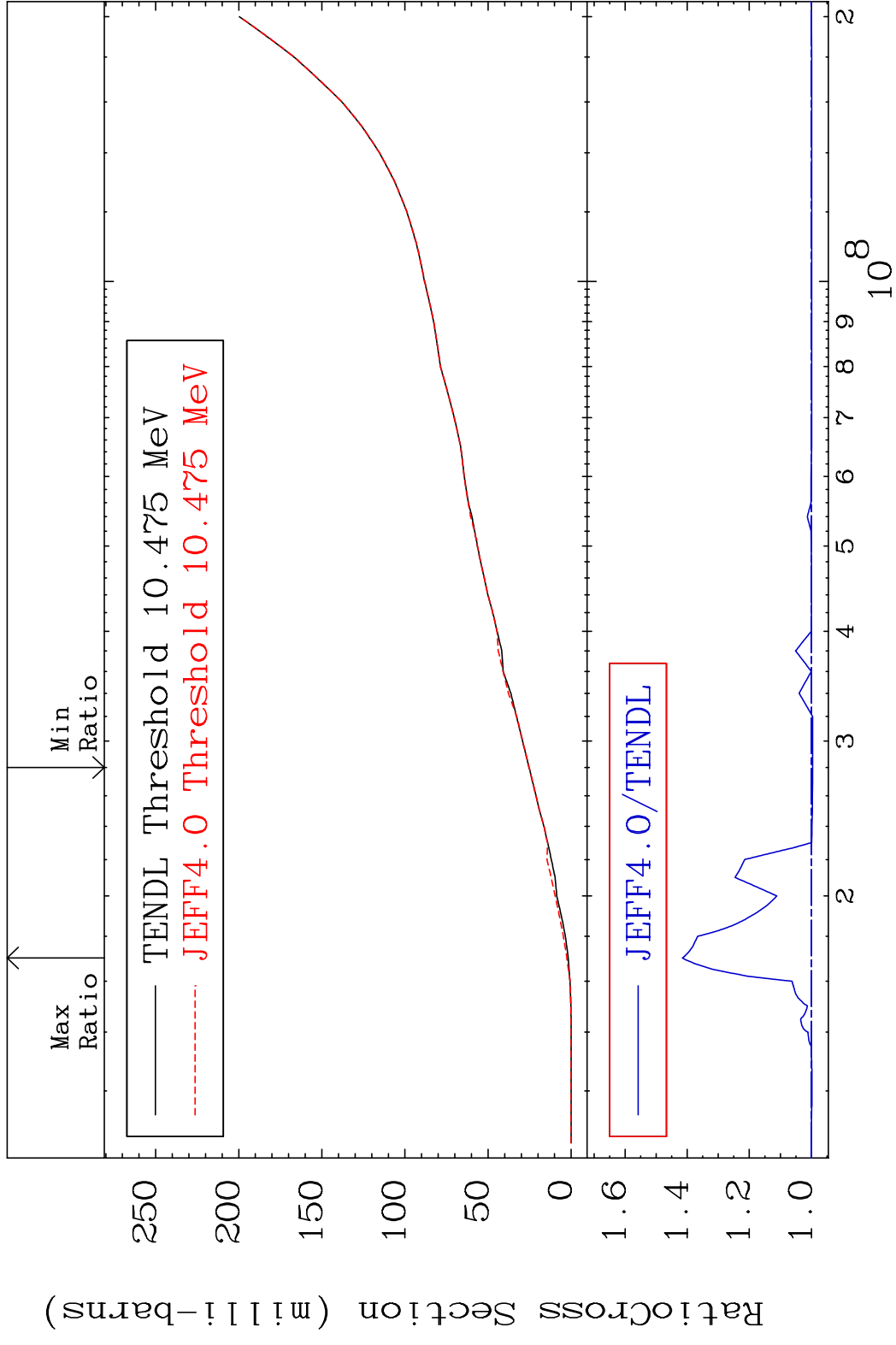


58

Incident Energy (eV)

²⁸Ni-64

MAT 2843 Deuterium Production ²⁸Ni-64
 Cross Section -0.360 To 41.56 %

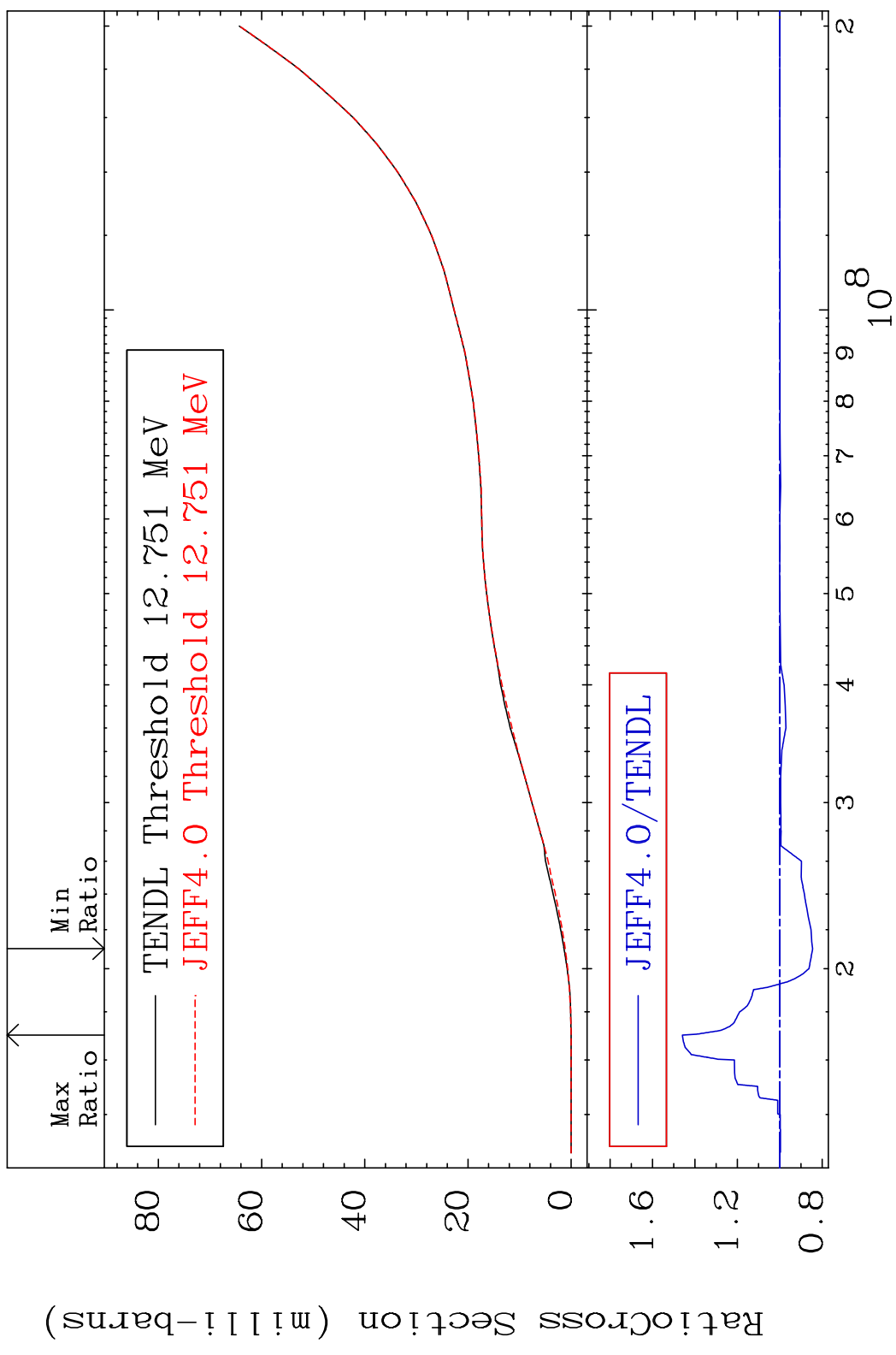


MAT 2843

Tritium Production

²⁸Ni-64

Cross Section -15.50 To 45.93 %



60

Incident Energy (eV)

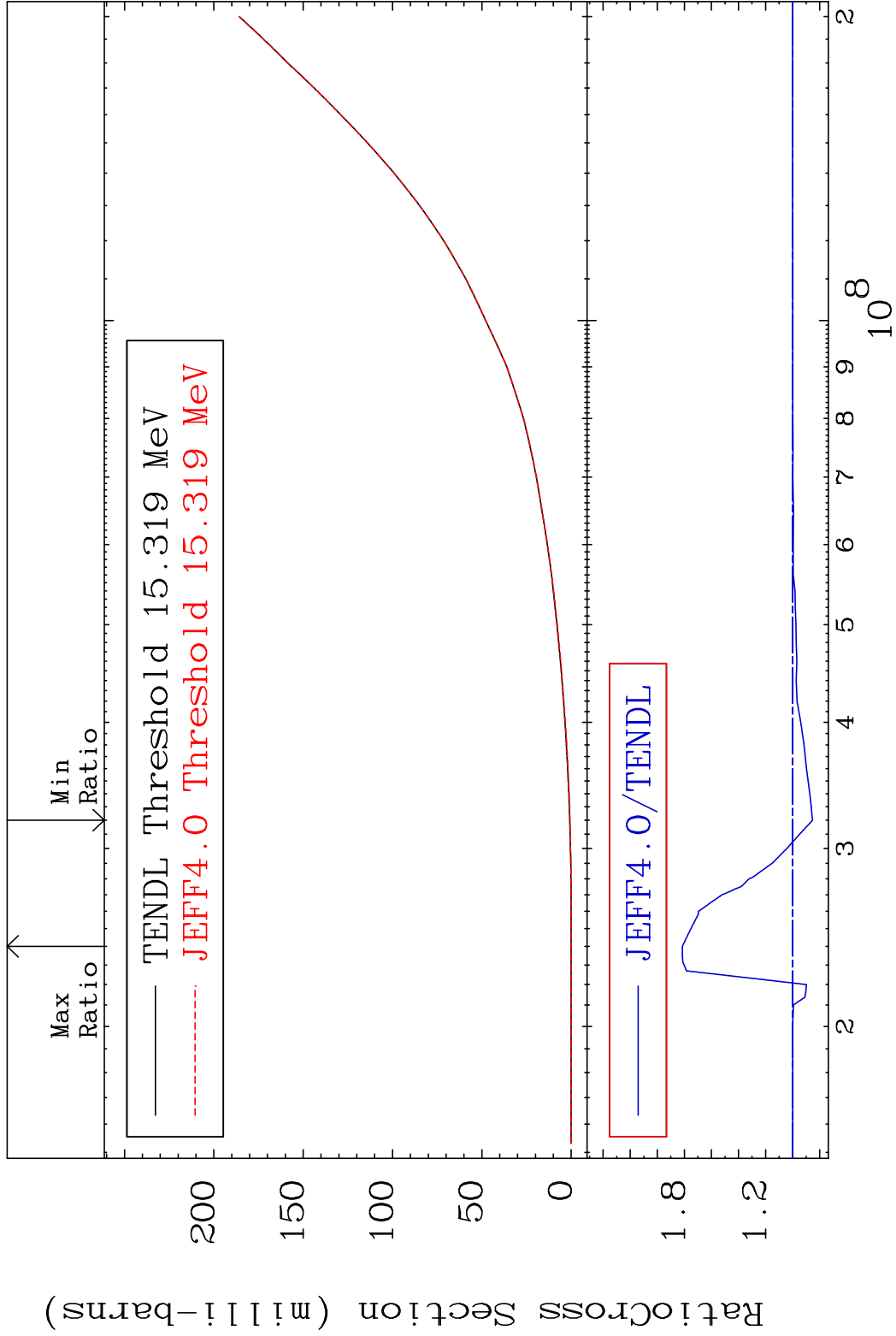
²⁸Ni-64

MAT 2843

He-3 Production

²⁸Ni-64

Cross Section -14.71 To 81.48 %



61

Incident Energy (eV)

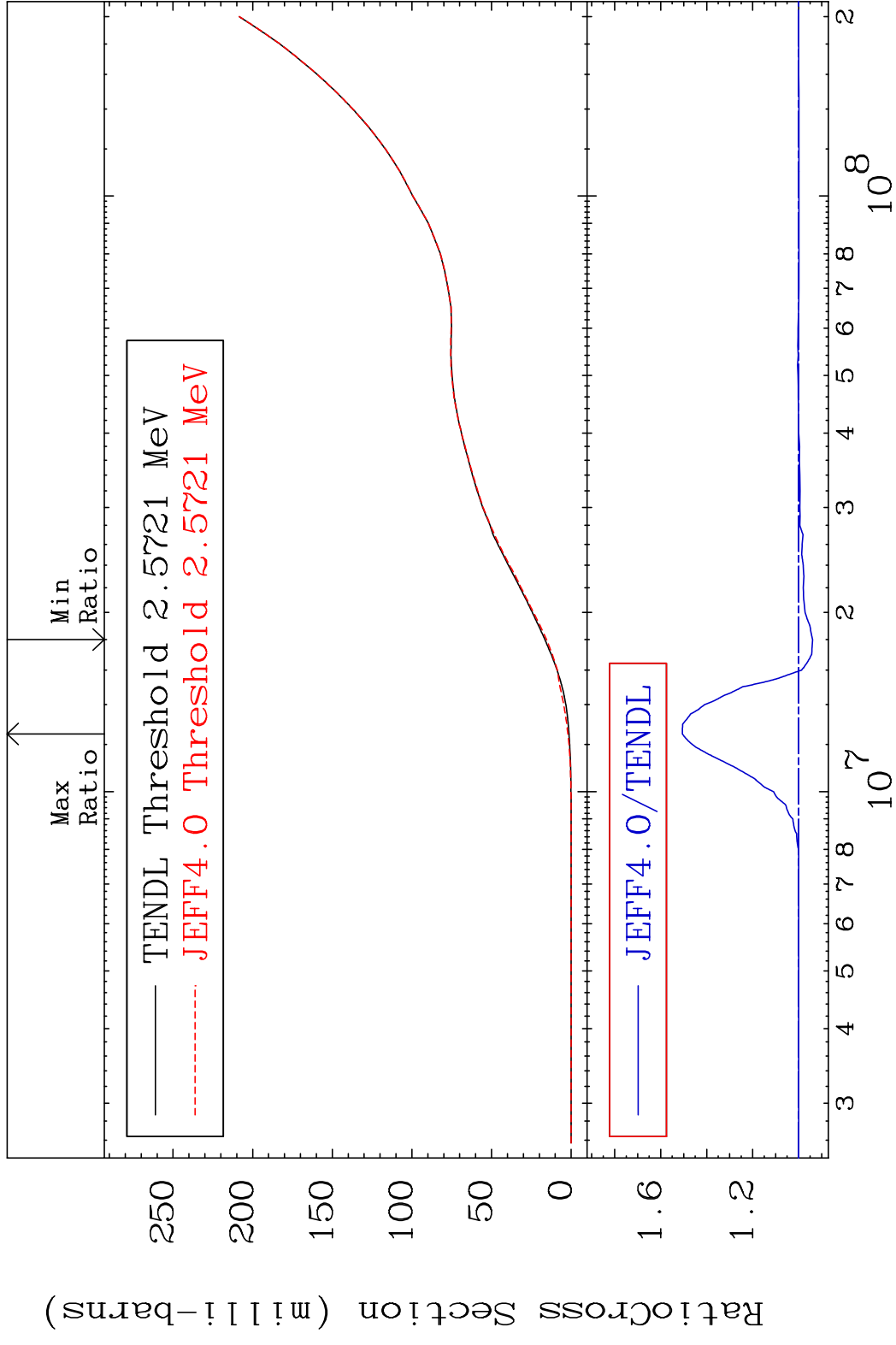
²⁸Ni-64

MAT 2843

He-4 Production

28-Ni-64

Cross Section -6.043 To 50.58 %

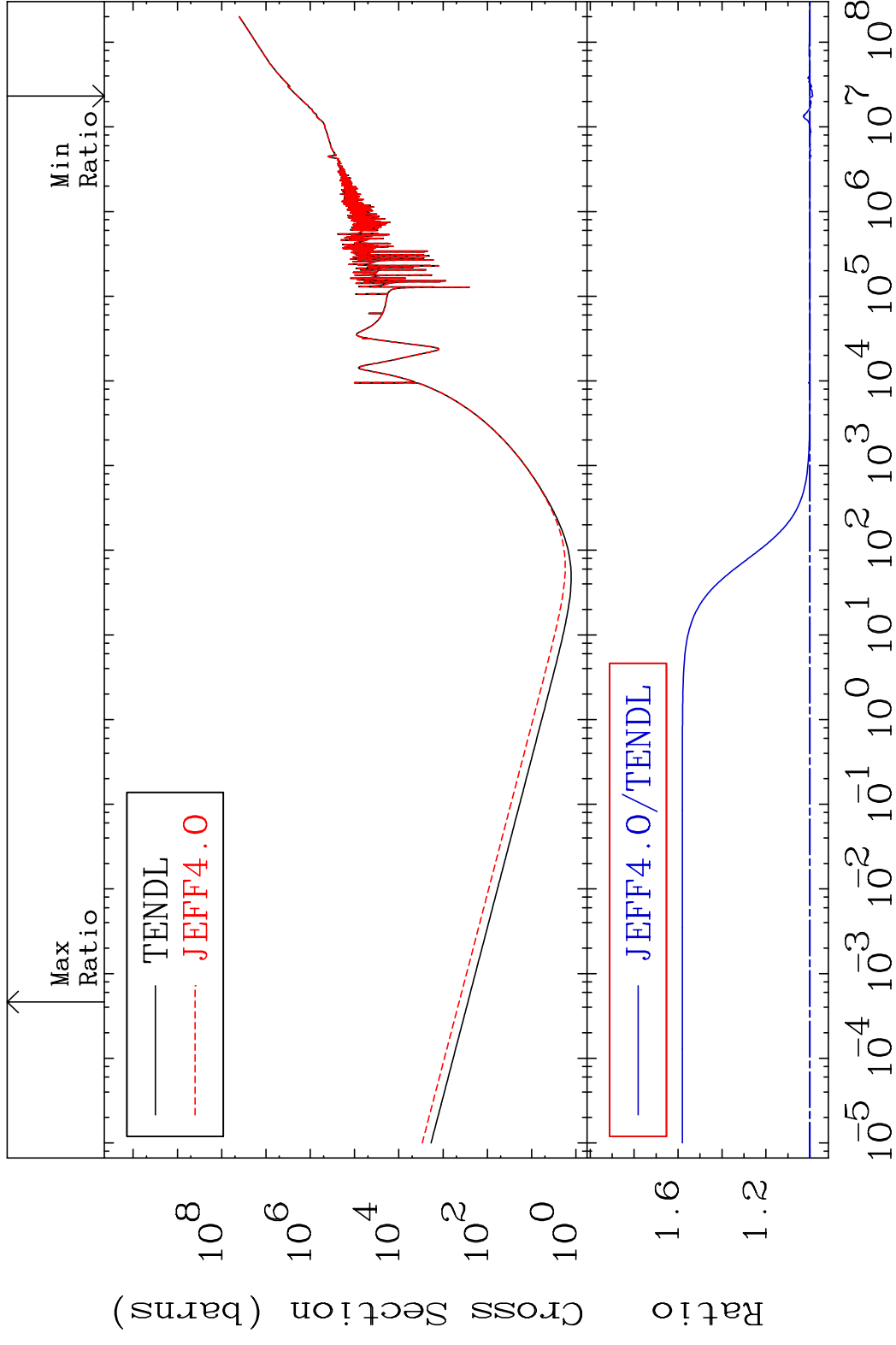


62

Incident Energy (eV)

28-Ni-64

MAT 2843 Kerma total (eV-barns) 28-Ni-64
 Cross Section -1.231 To 58.04 %

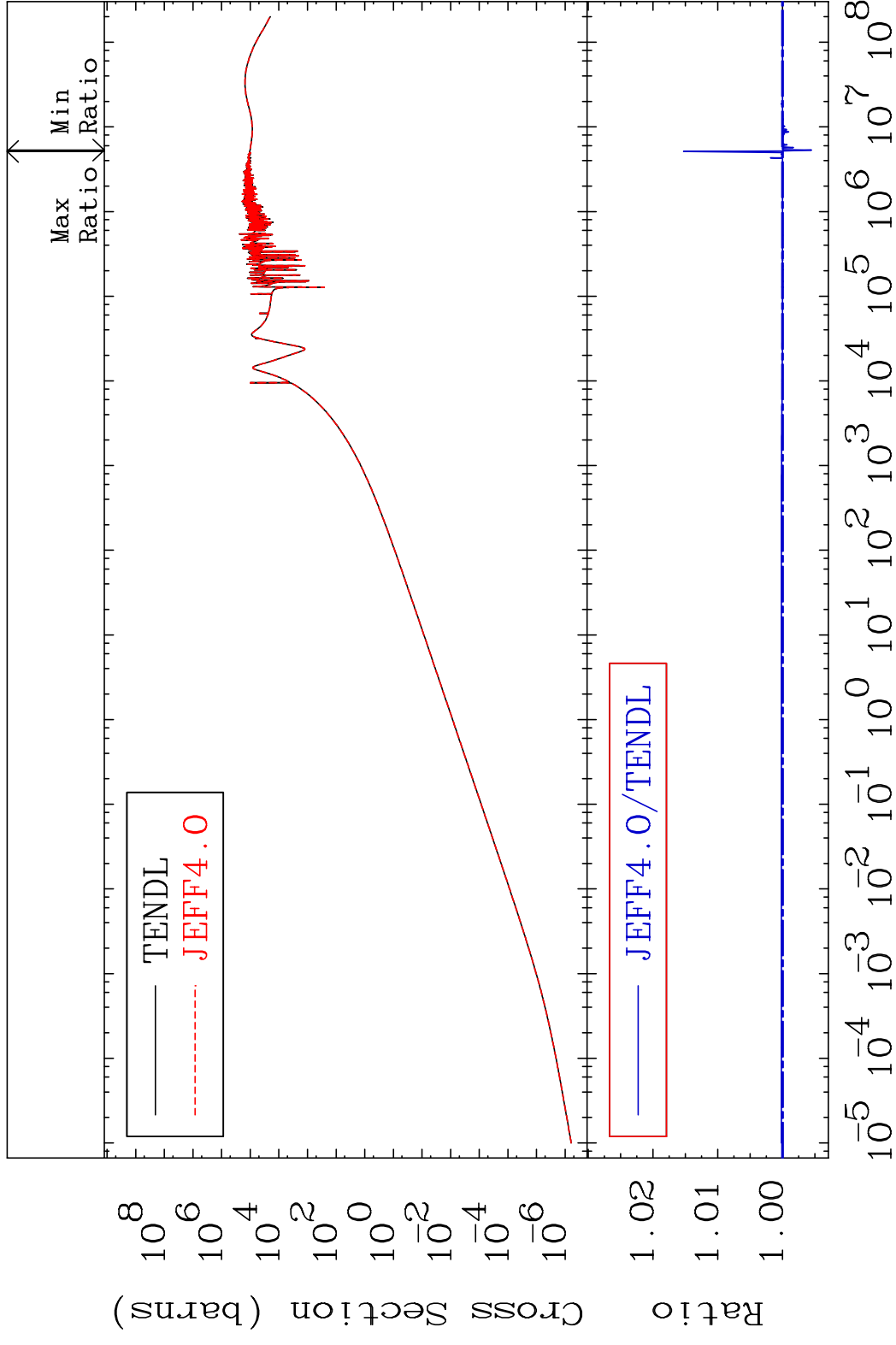


63 Incident Energy (eV) 28-Ni-64

MAT 2843

Kerma elastic
Cross Section -0.446 To 1.529 %

28-Ni-64

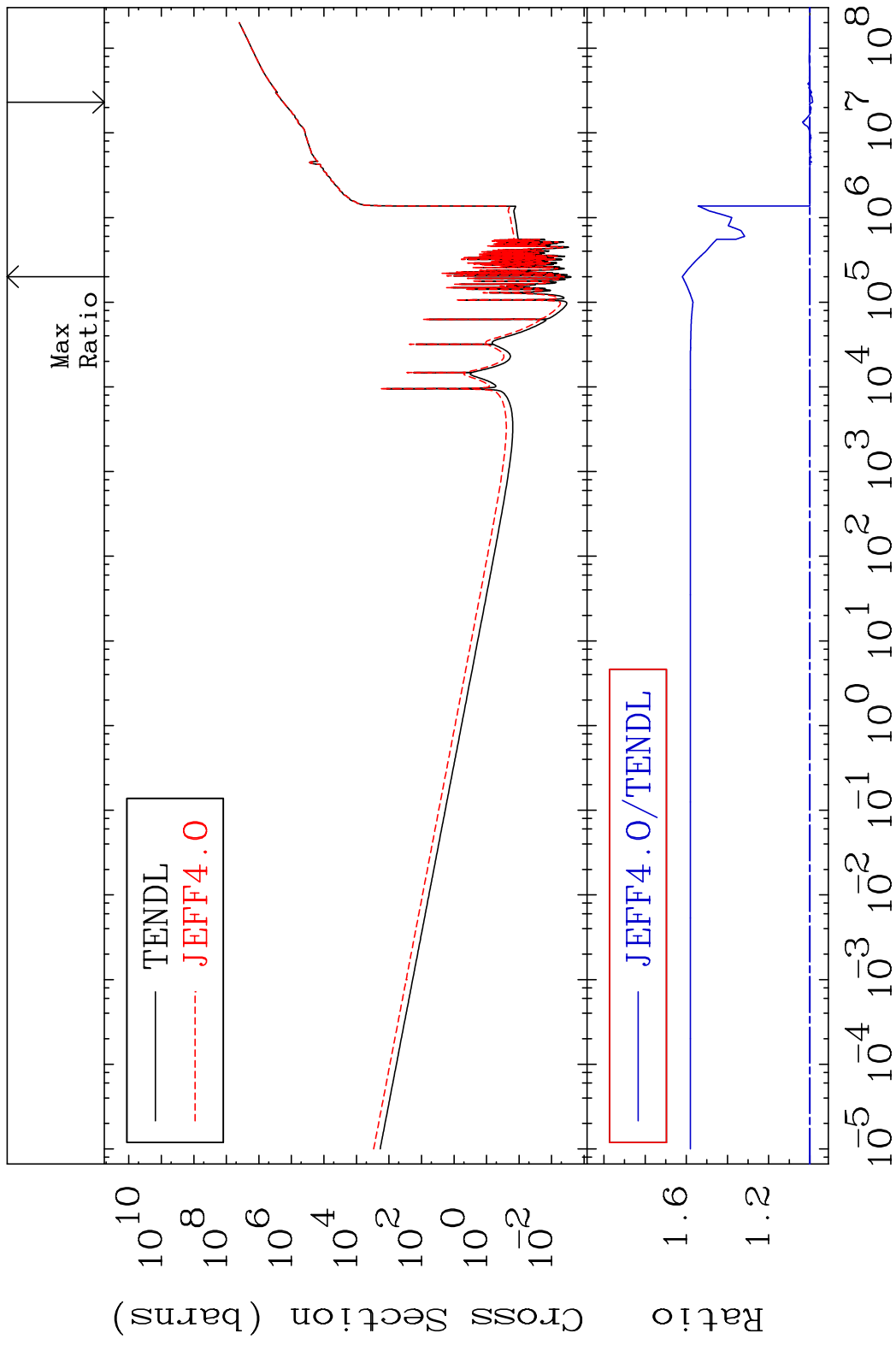


64

Incident Energy (eV)

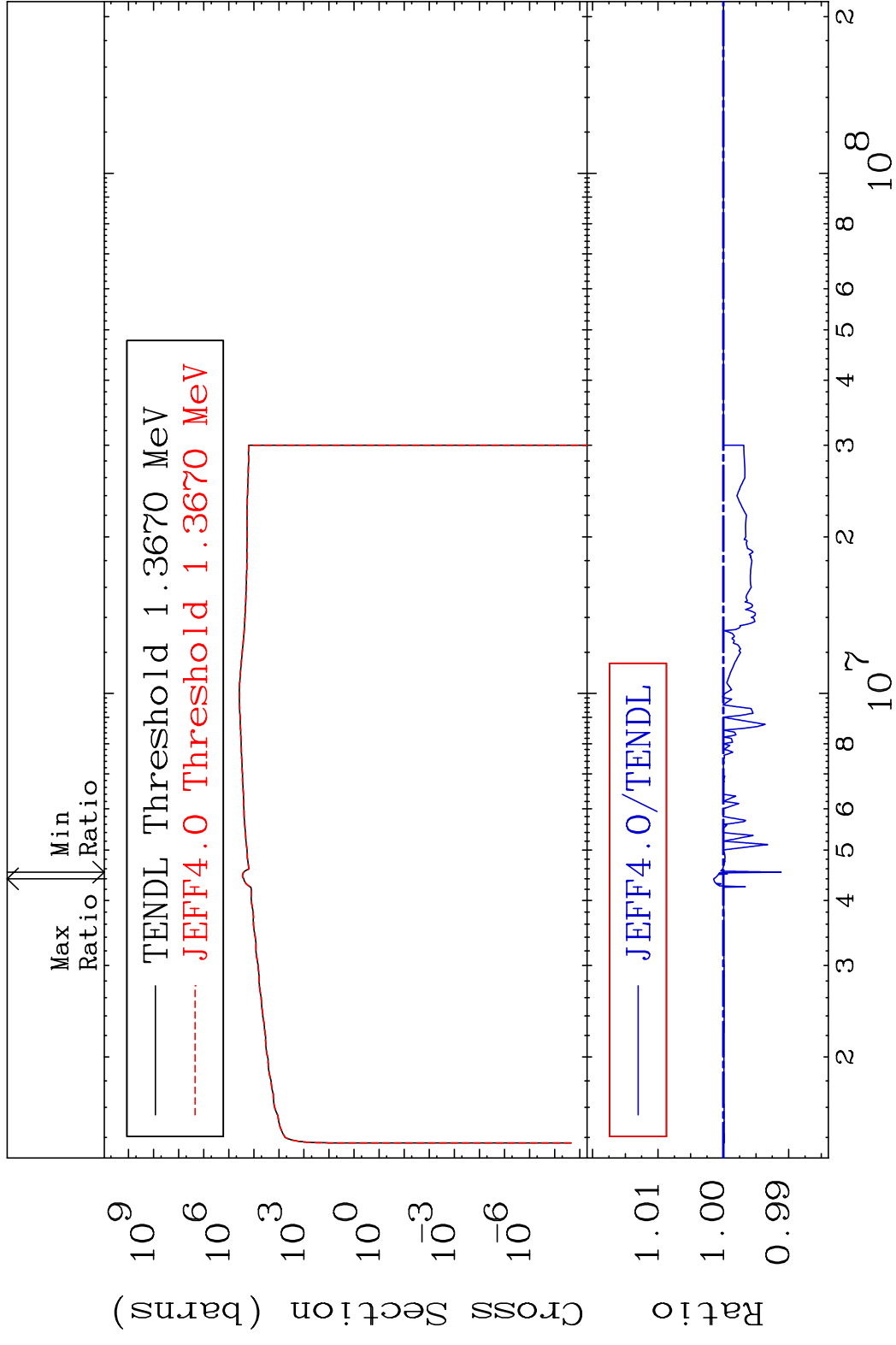
28-Ni-64

MAT 2843 Kerma non-elastic (all but mt2) 28-Ni-64
 Cross Section -1.324 To 61.91 %

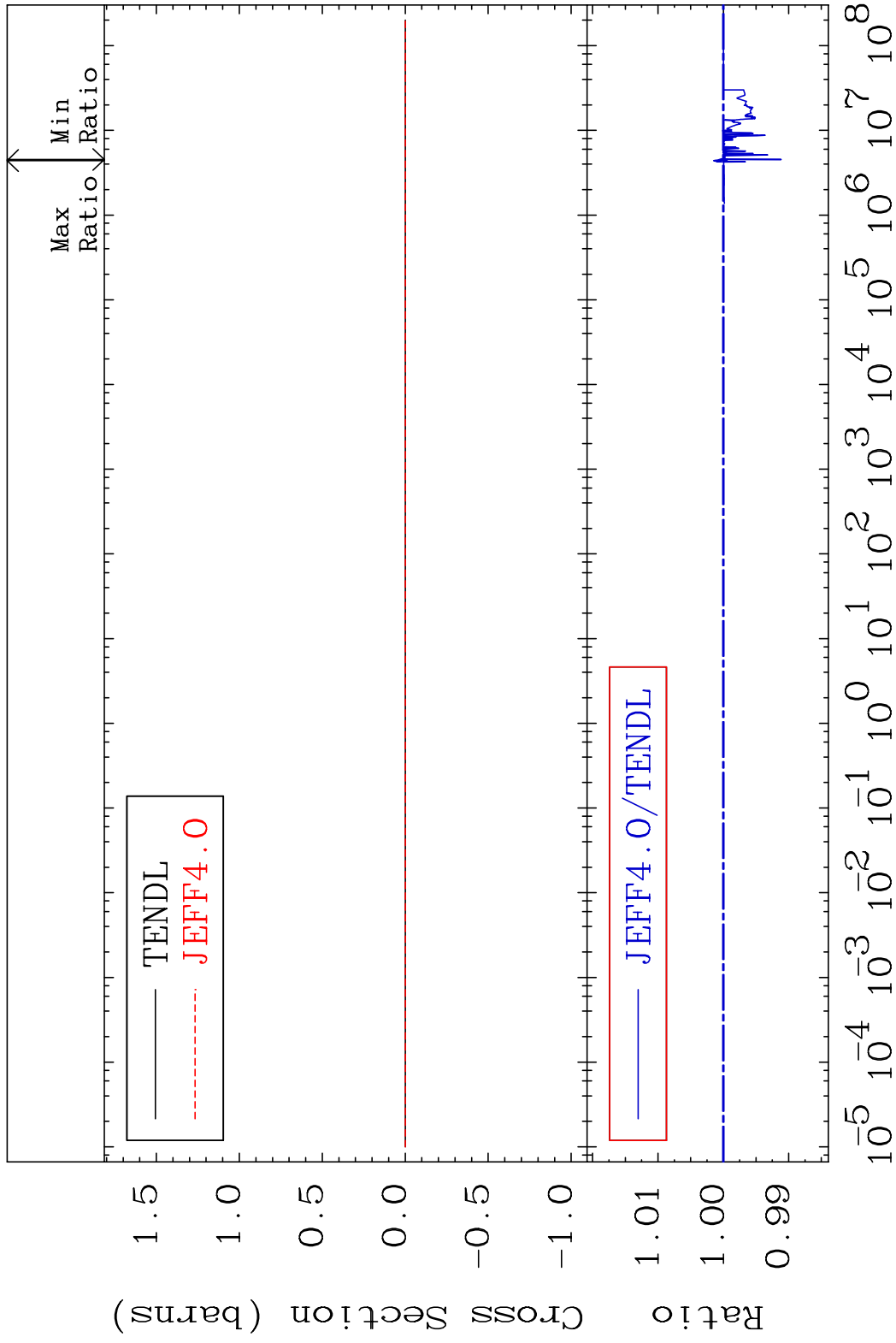


65 Incident Energy (eV) 28-Ni-64

MAT 2843 Kerma inelastic (mt51-91) 28-Ni-64
 Cross Section -0.886 To 0.148 %

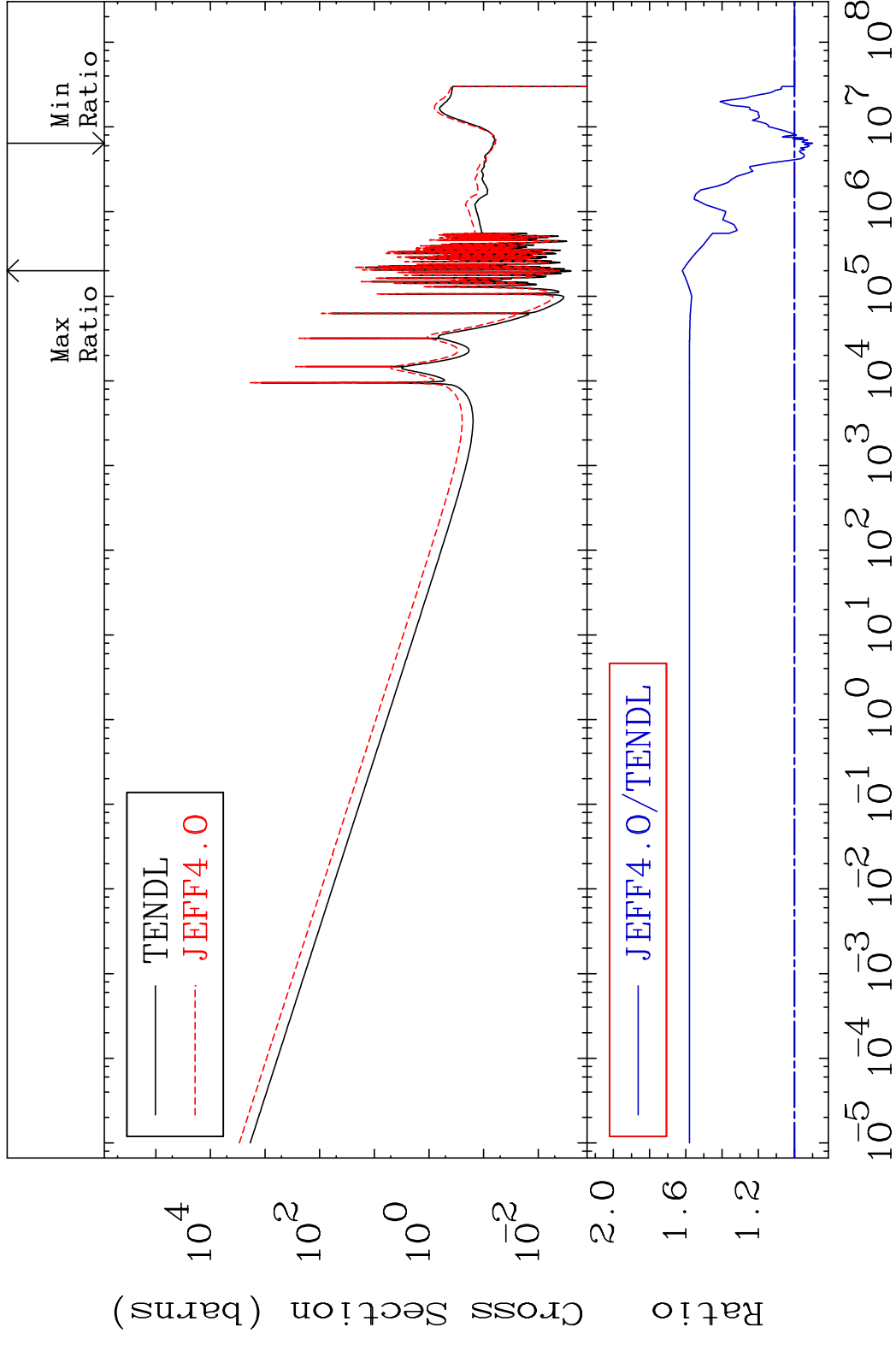


MAT 2843 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-64
 Cross Section -0.886 To 0.148 %



MAT 2843

Kerma capture (mt102) 28-Ni-64
Cross Section -9.984 To 61.91 %

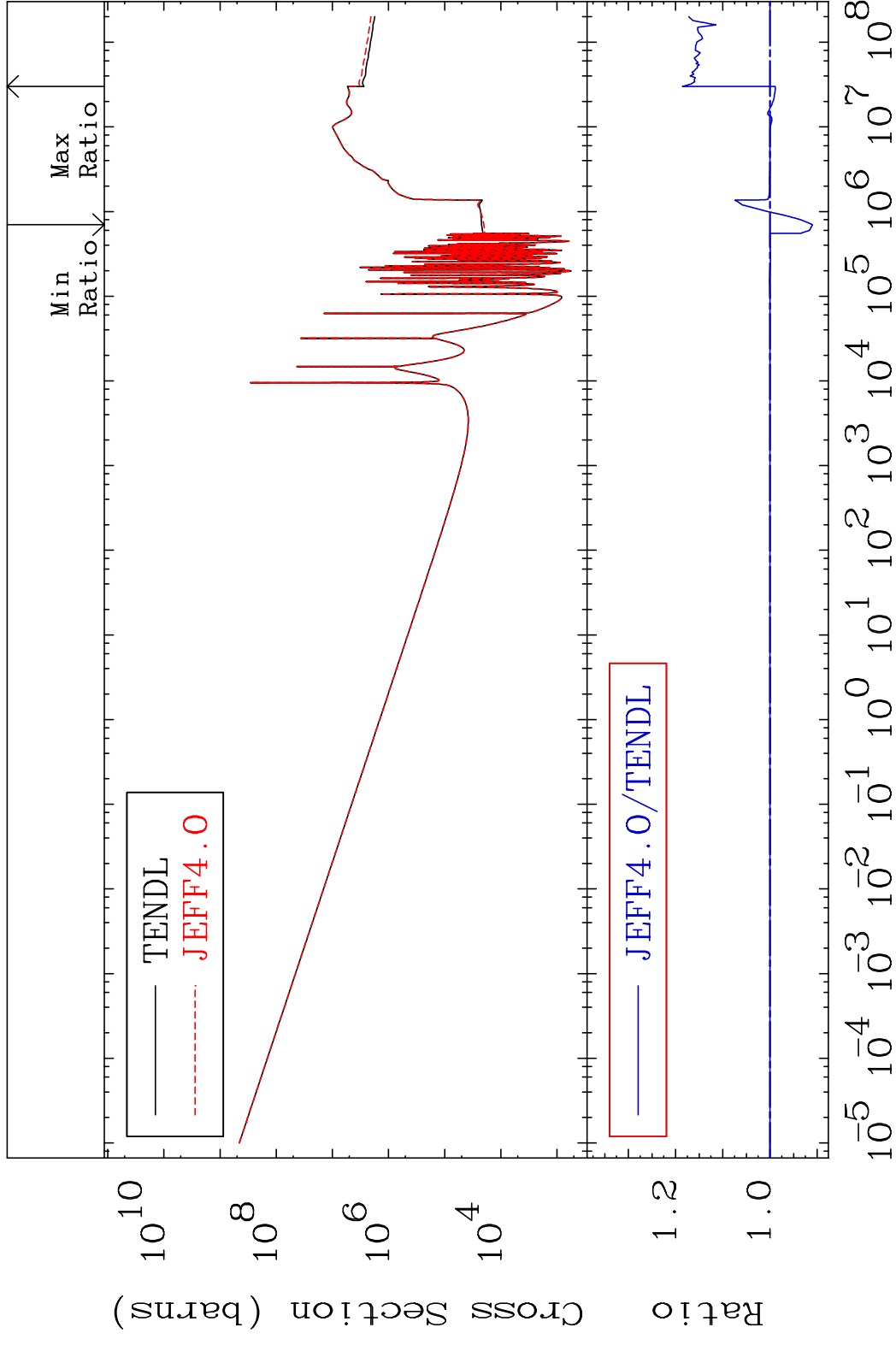


68

Incident Energy (eV)

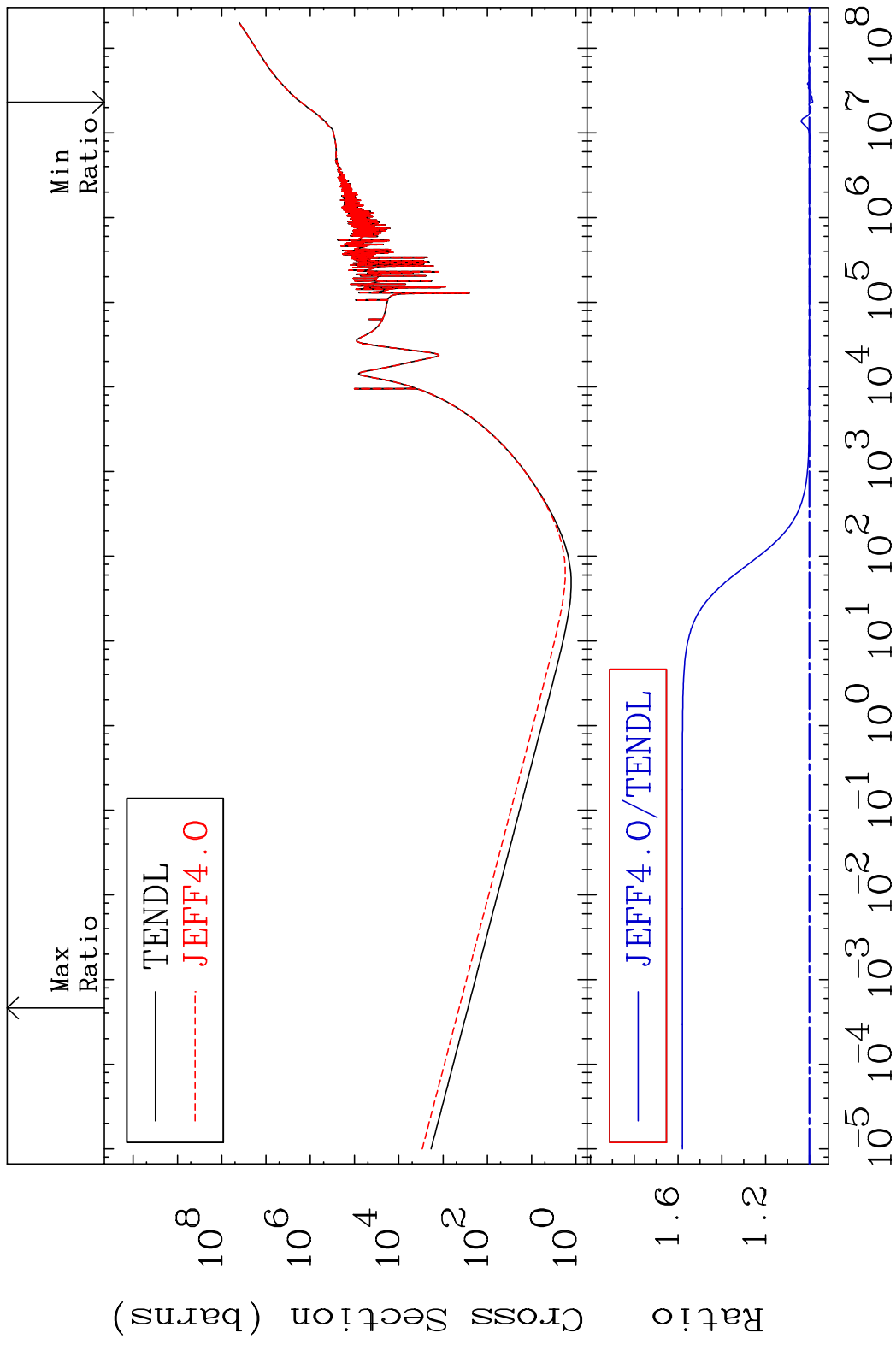
28-Ni-64

MAT 2843 Total photon (eV-barns) 28-Ni-64
 Cross Section -9.023 To 18.57 %

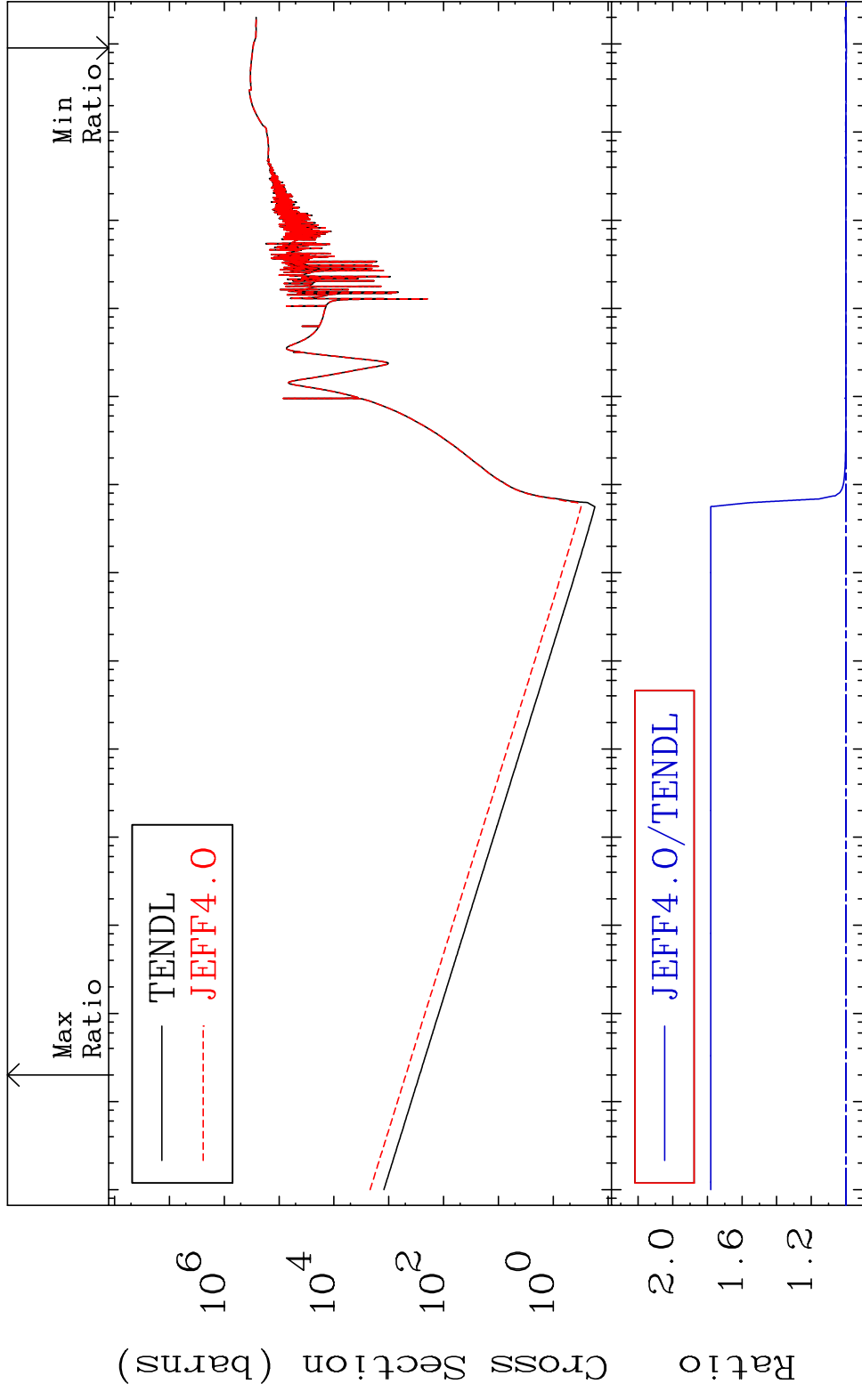


69 Incident Energy (eV) 28-Ni-64

MAT 2843 Total kinematic kerma (high limit) 28-Ni-64
Cross Section -1.481 To 58.04 %



MAT 2843 Dpa total (eV-barns) 28-Ni-64
 Cross Section -0.2477 To 78.09 %



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

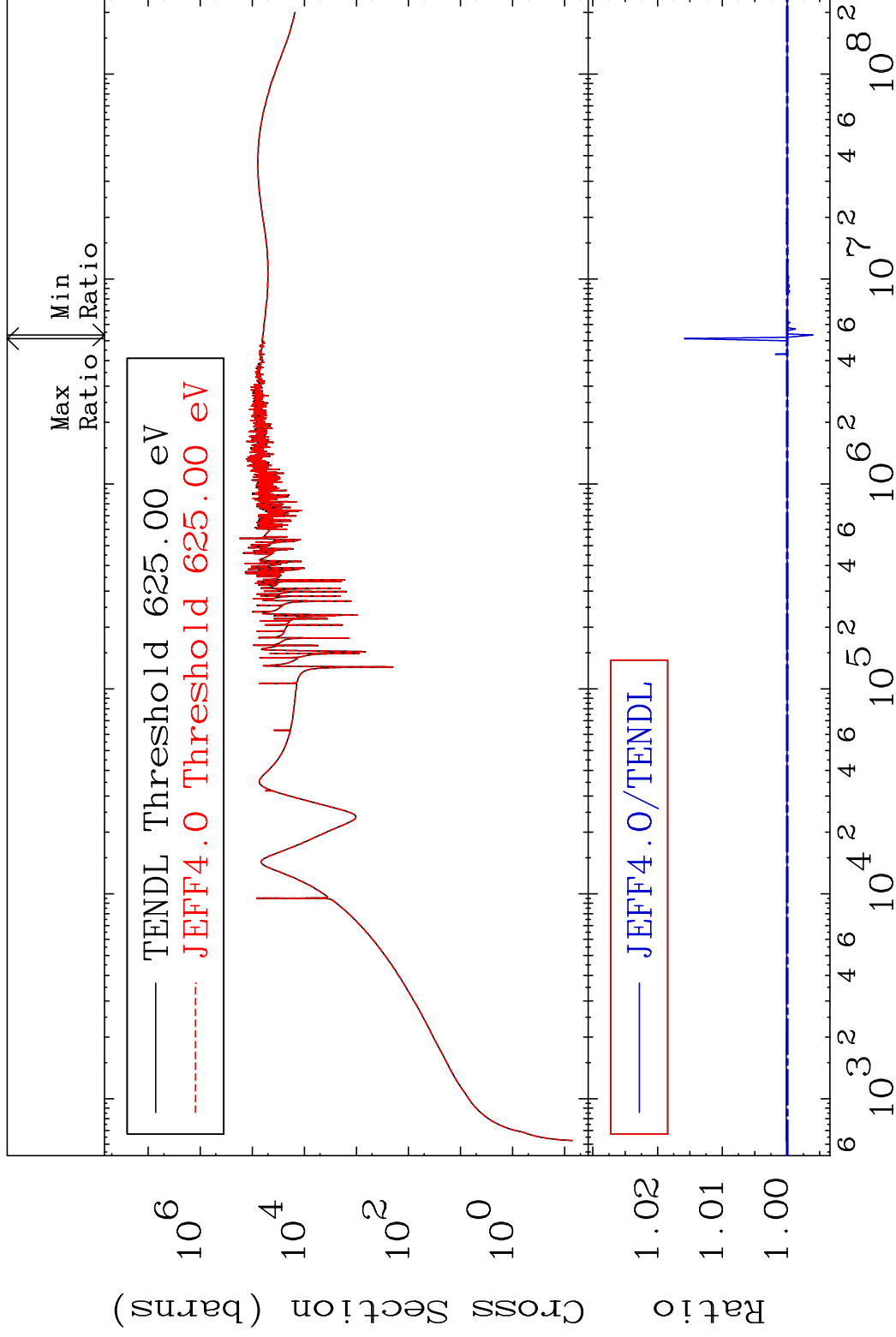
71 Incident Energy (eV) 28-Ni-64

MAT 2843

Dpa elastic (mt2)

²⁸Ni-64

Cross Section -0.399 To 1.581 %



72

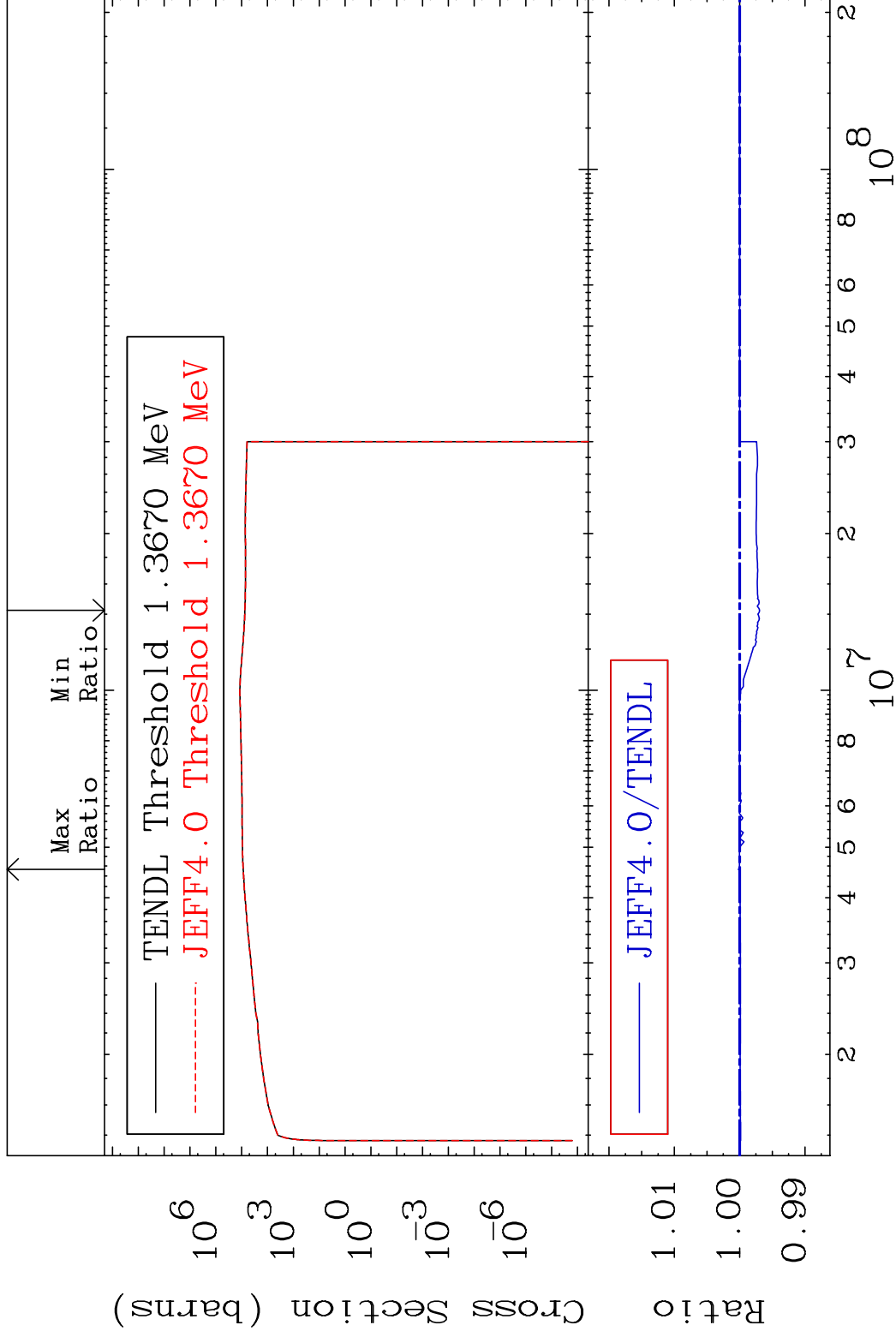
Incident Energy (eV)

²⁸Ni-64

MAT 2843

Dpa inelastic (mt51-91) 28-Ni-64

Cross Section -0.304 To 0.021 %

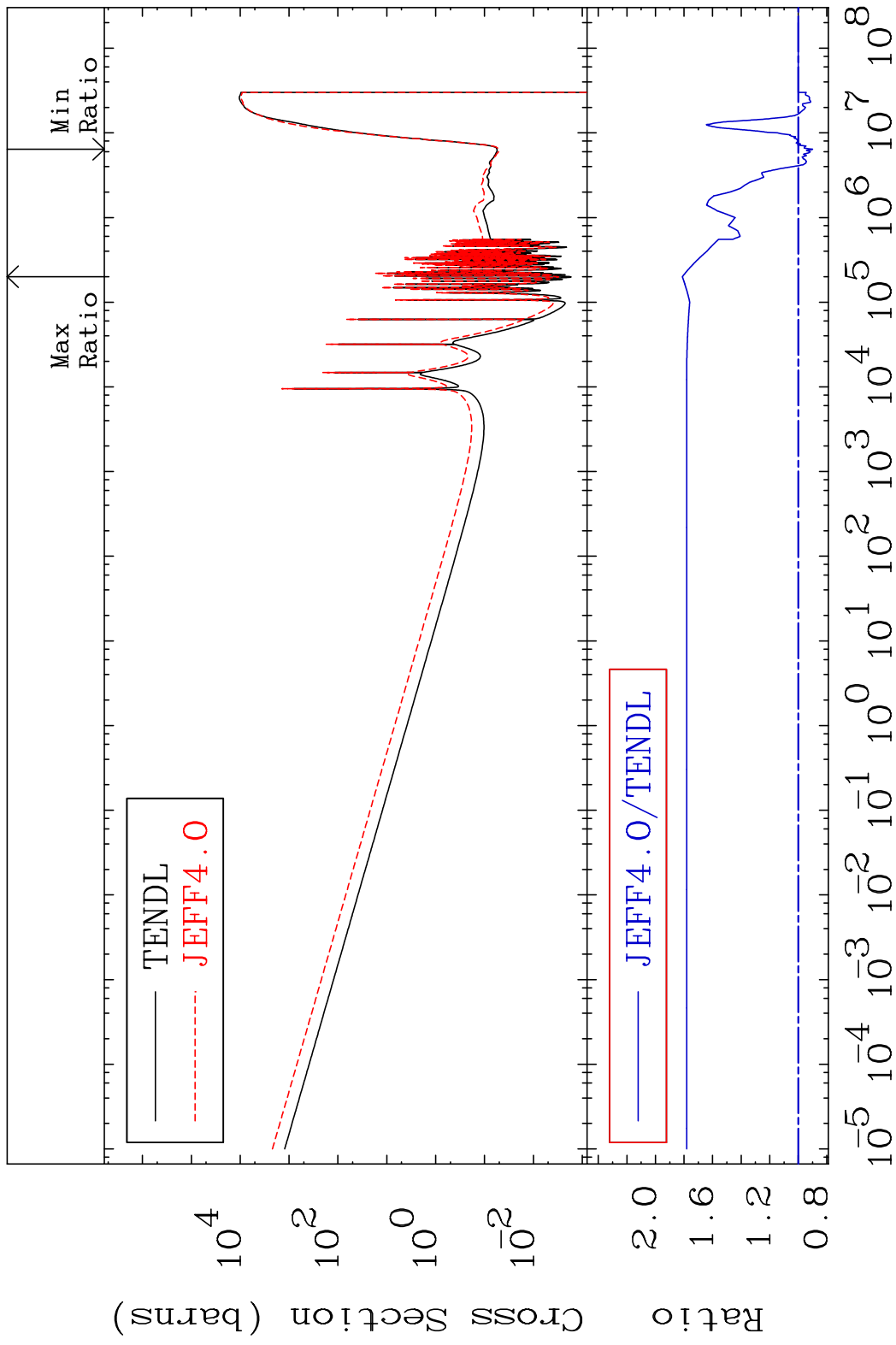


73

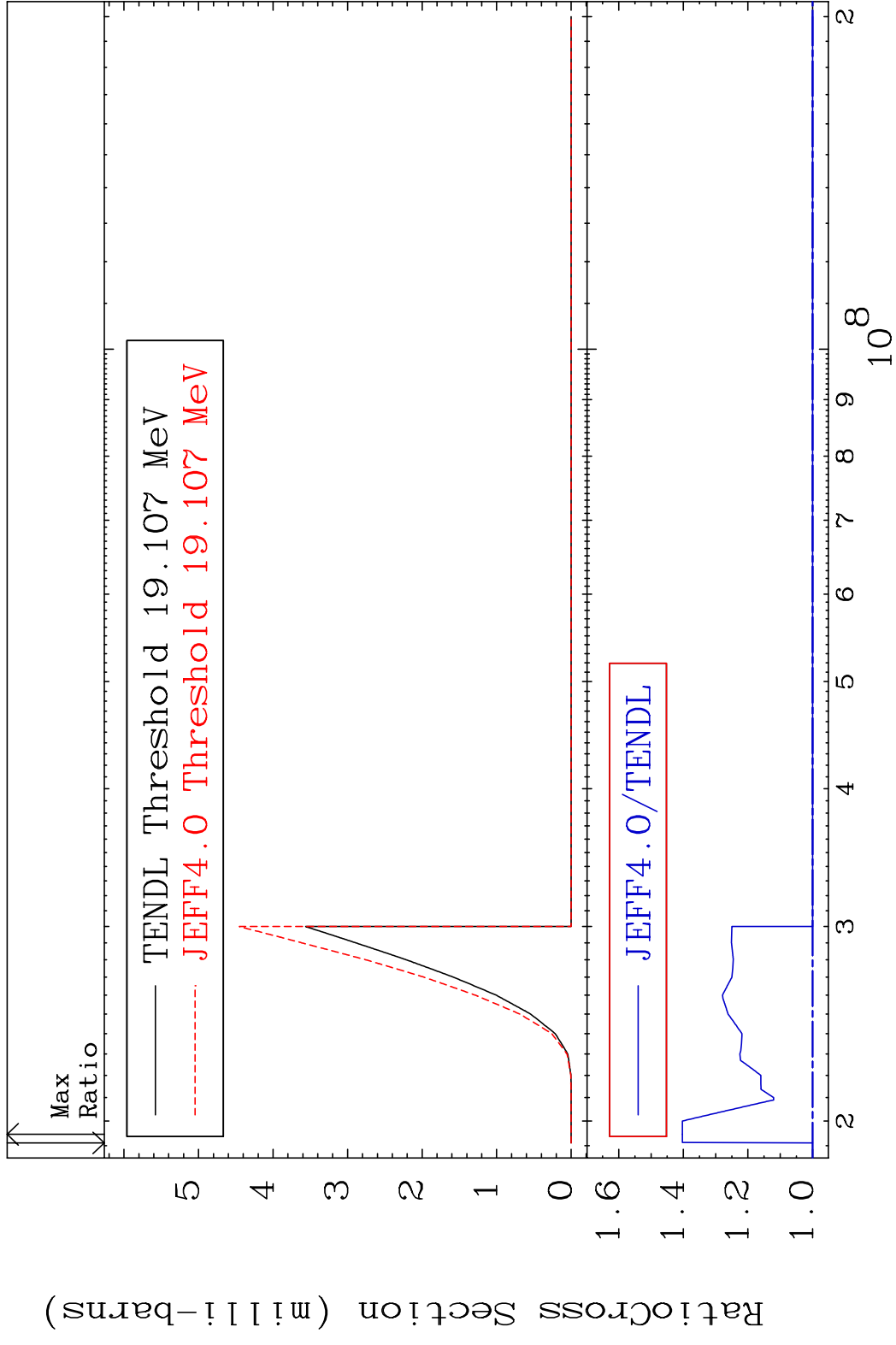
Incident Energy (eV)

28-Ni-64

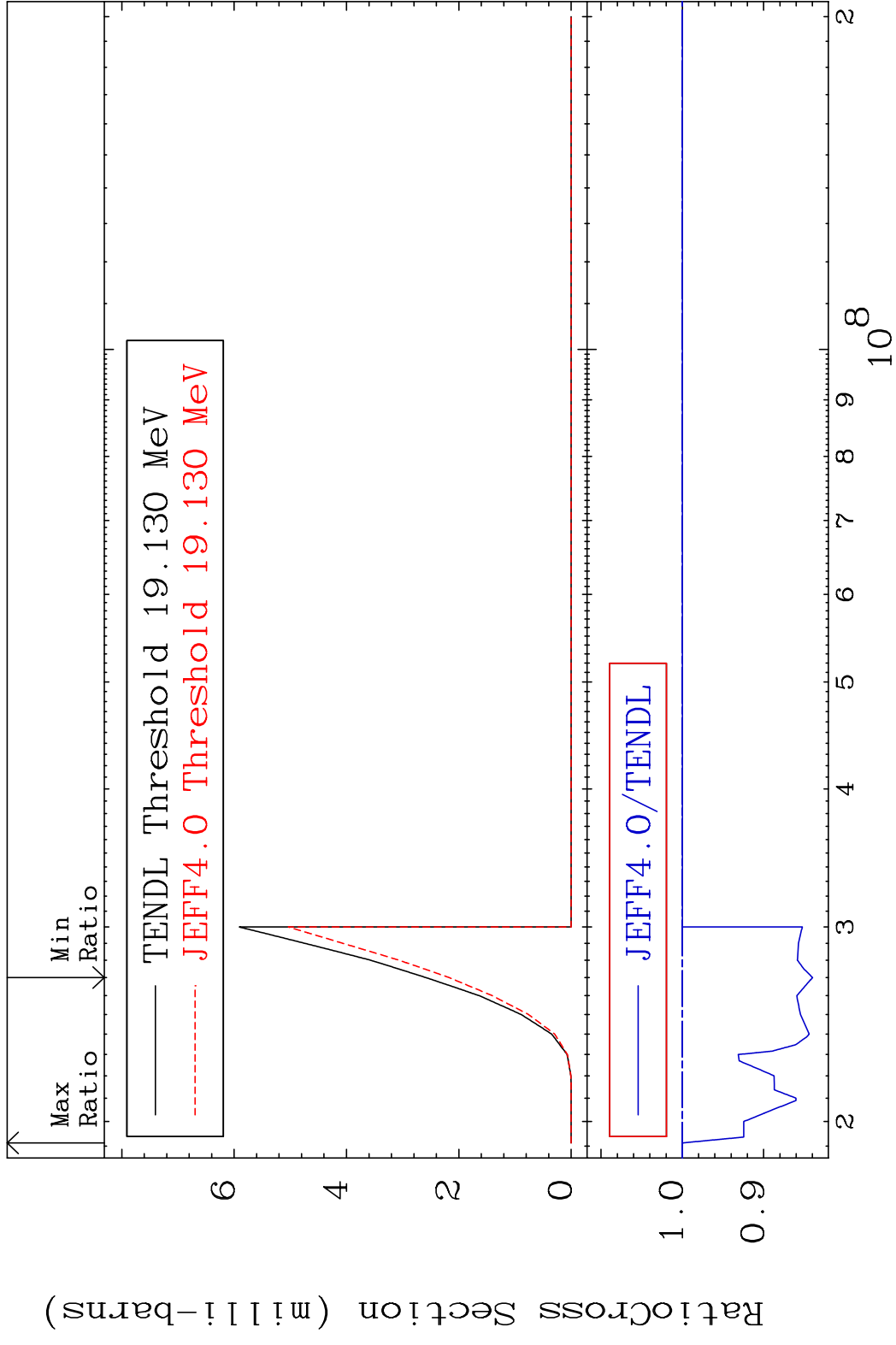
MAT 2843 Dpa disappearance (mt102 -120) 28-Ni-64
 Cross Section -9.995 To 81.17 %



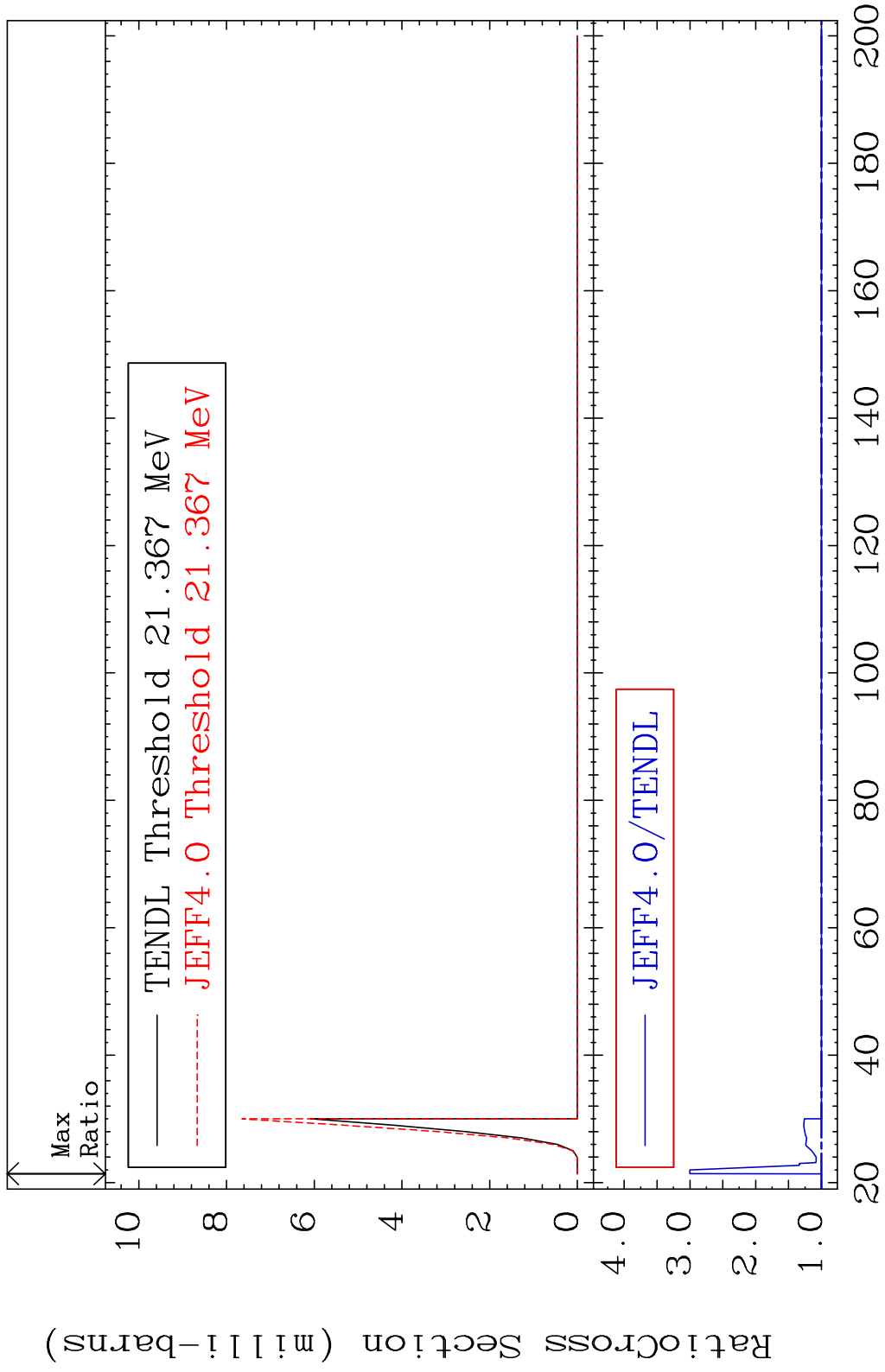
MAT 2843 (n, n') d:27-Co-62g 28-Ni-64
 Radionuclide Production Cross Section 40.31 %



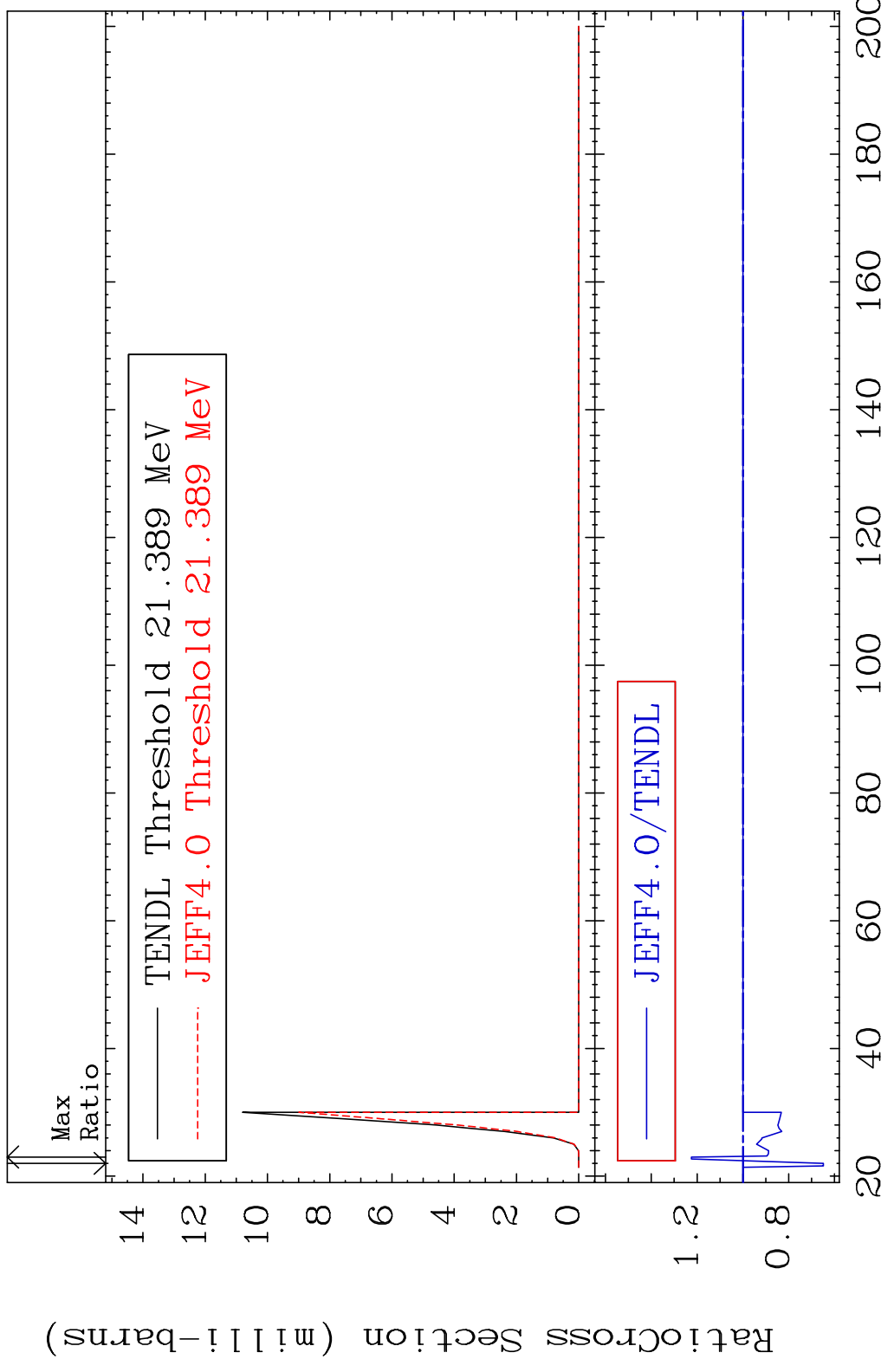
MAT 2843 (n, n') d:27-Co-62m1 28-Ni-64
 Radionuclide Production Cross Section 18e-02 dno 0.000 %



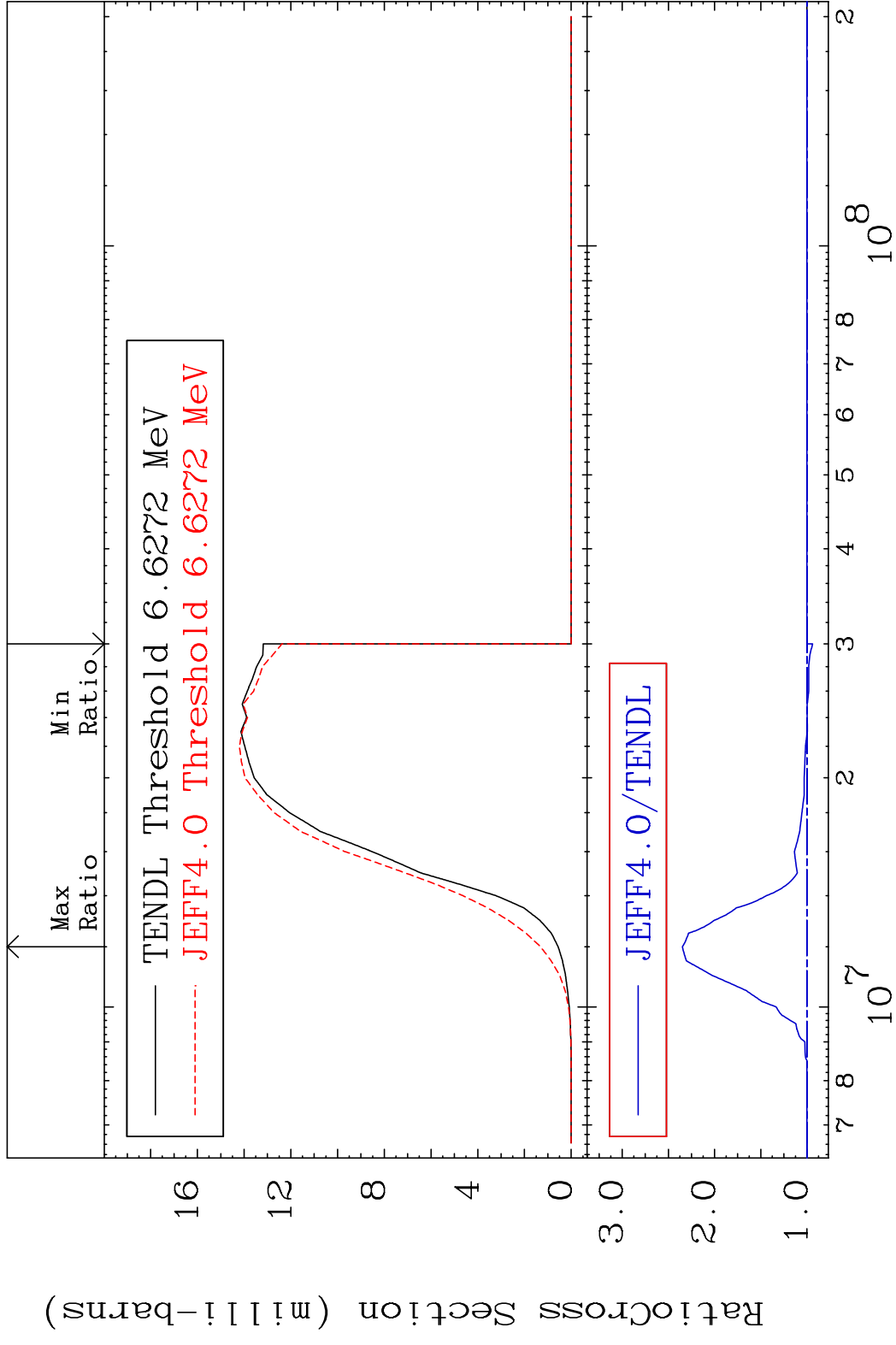
MAT 2843 (n,2n) p:27-Co-62g 28-Ni-64
 Radionuclide Production Cross Section 200.2 %



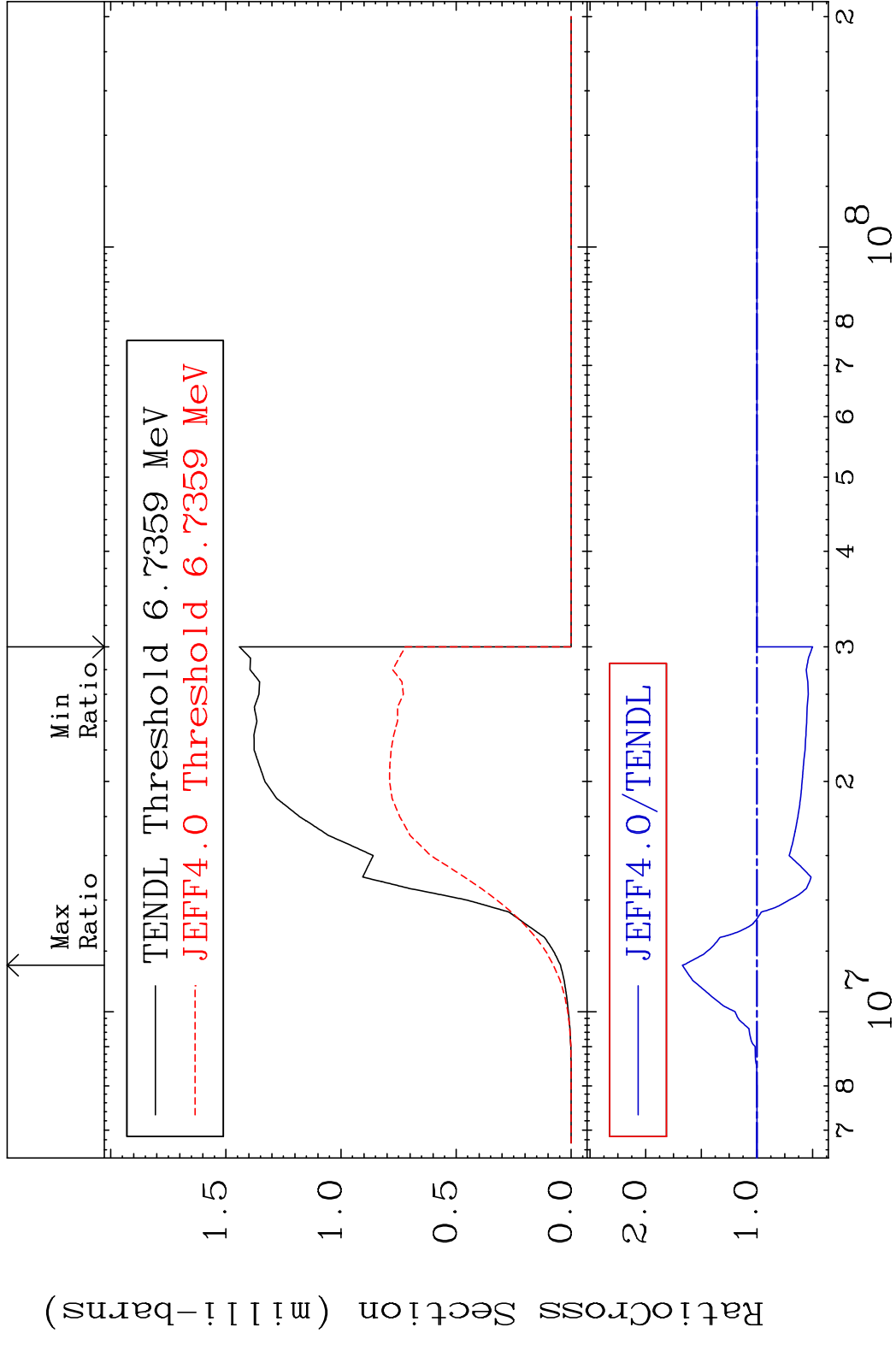
MAT 2843 (n,2n) p:27-Co-62m1 28-Ni-64
 Radionuclide Production Cross Section 35091 d10 22.49 %



MAT 2843 (n,p):27-Co-64g 28-Ni-64
 Radionuclide Production Cross Section 134.9 %

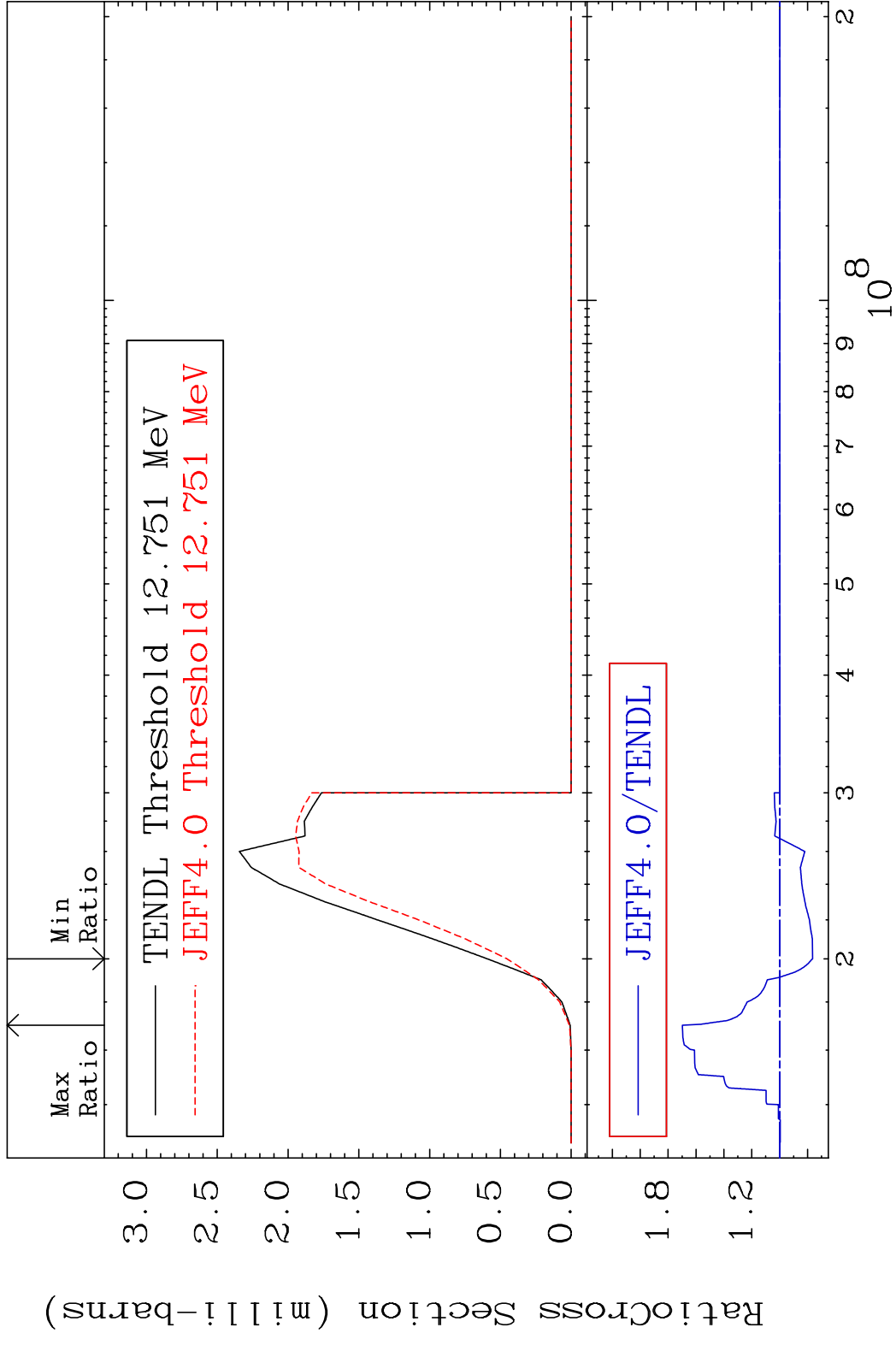


MAT 2843 (n,p):27-Co-64m1 28-Ni-64
 Radionuclide Production Cross Section 67.04 %



80 Incident Energy (eV) 28-Ni-64

MAT 2843 (n, t): 27-Co-62g 28-Ni-64
 Radionuclide Production Cross Section 69.80 %



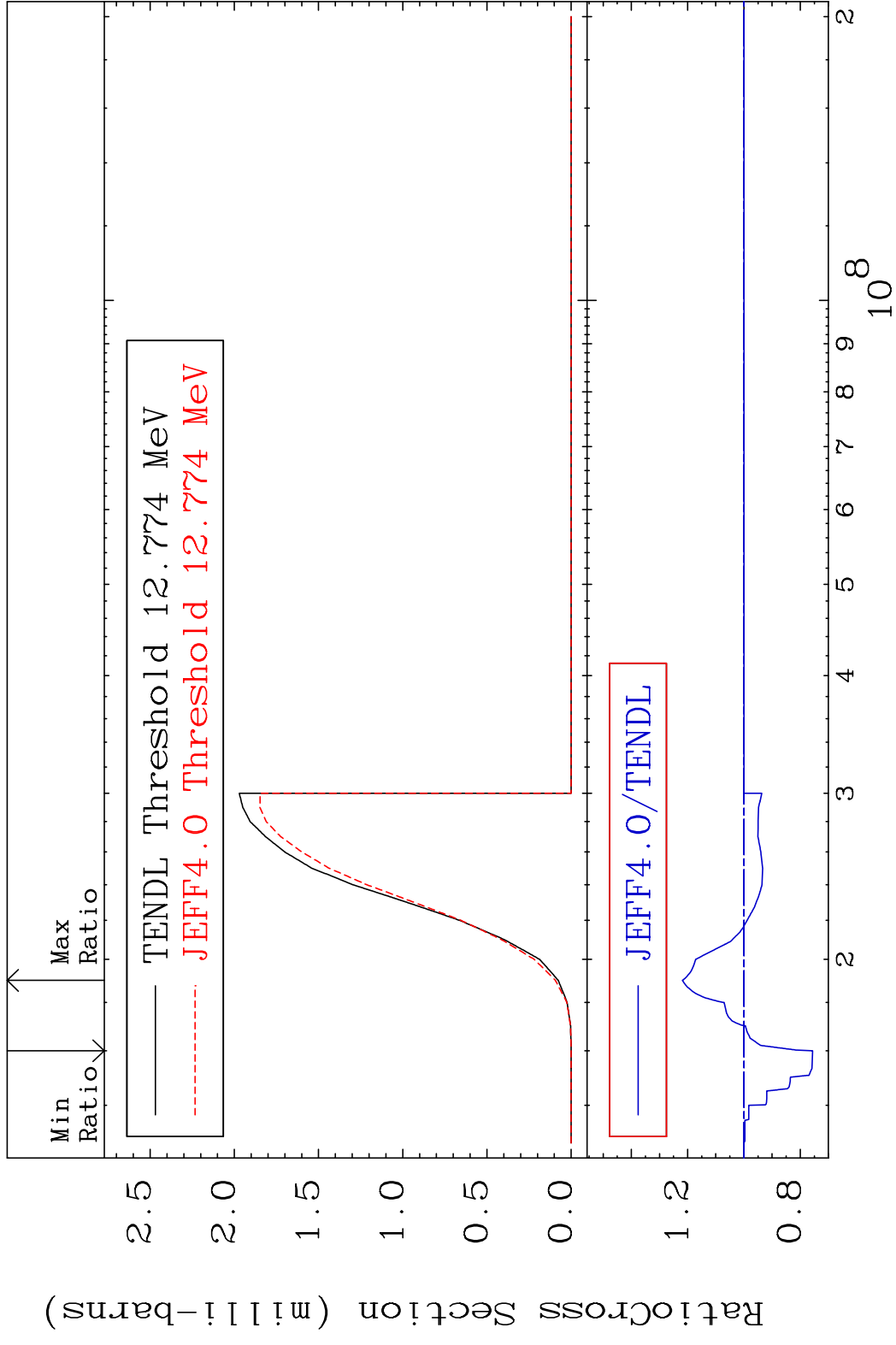
MAT 2843

(n, t): 27-Co-62m1

28-Ni-64

Radionuclide Production Cross Section

21.87 %

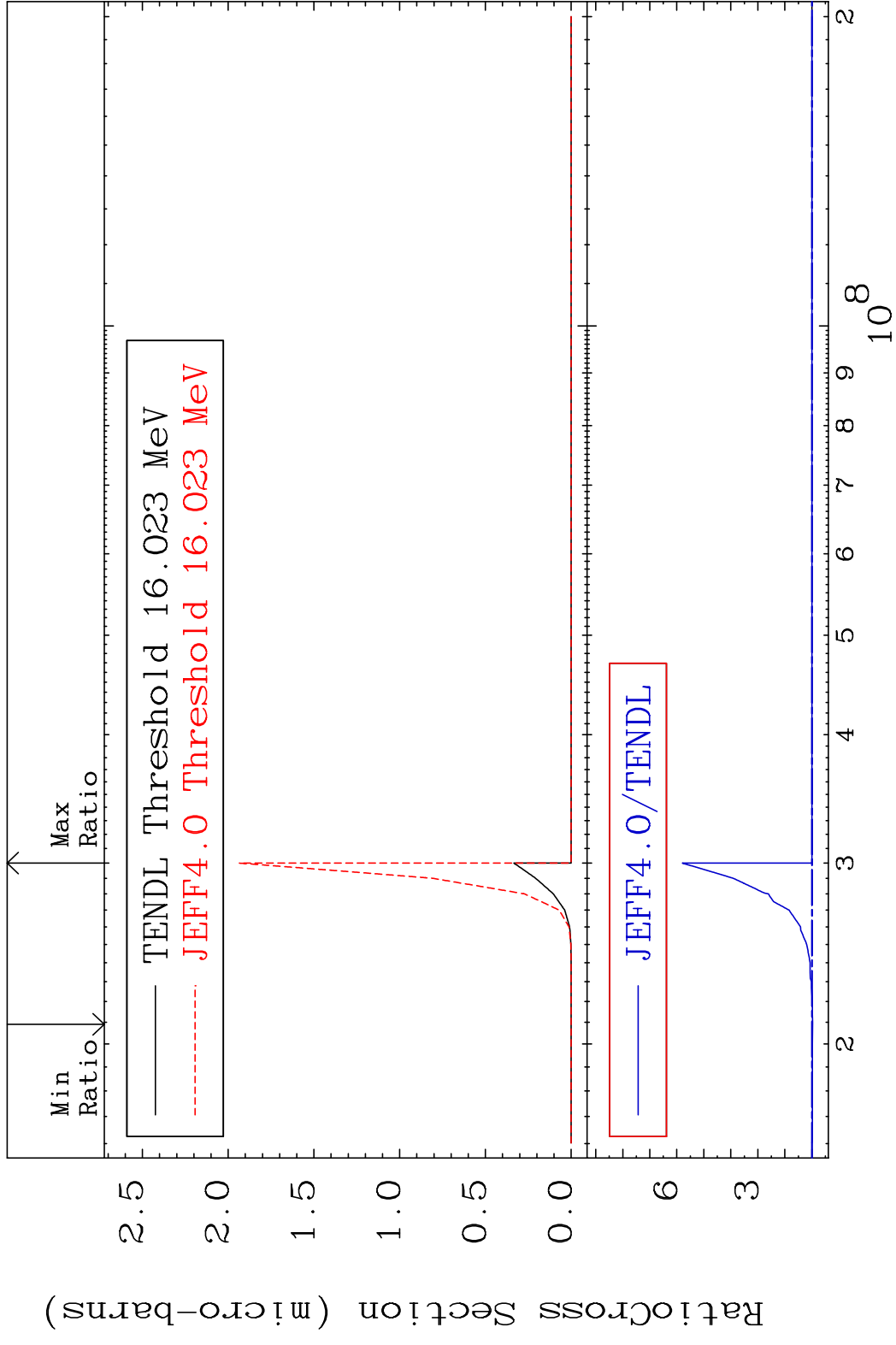


82

Incident Energy (eV)

28-Ni-64

MAT 2843 (n, p) α :25-Mn-60g 28-Ni-64
 Radionuclide Production Cross Section 479.4 %



MAT 2843 (n,p) α :25-Mn-60m1 28-Ni-64
 Radionuclide Production Cross Section 15070 295.5 %

