

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

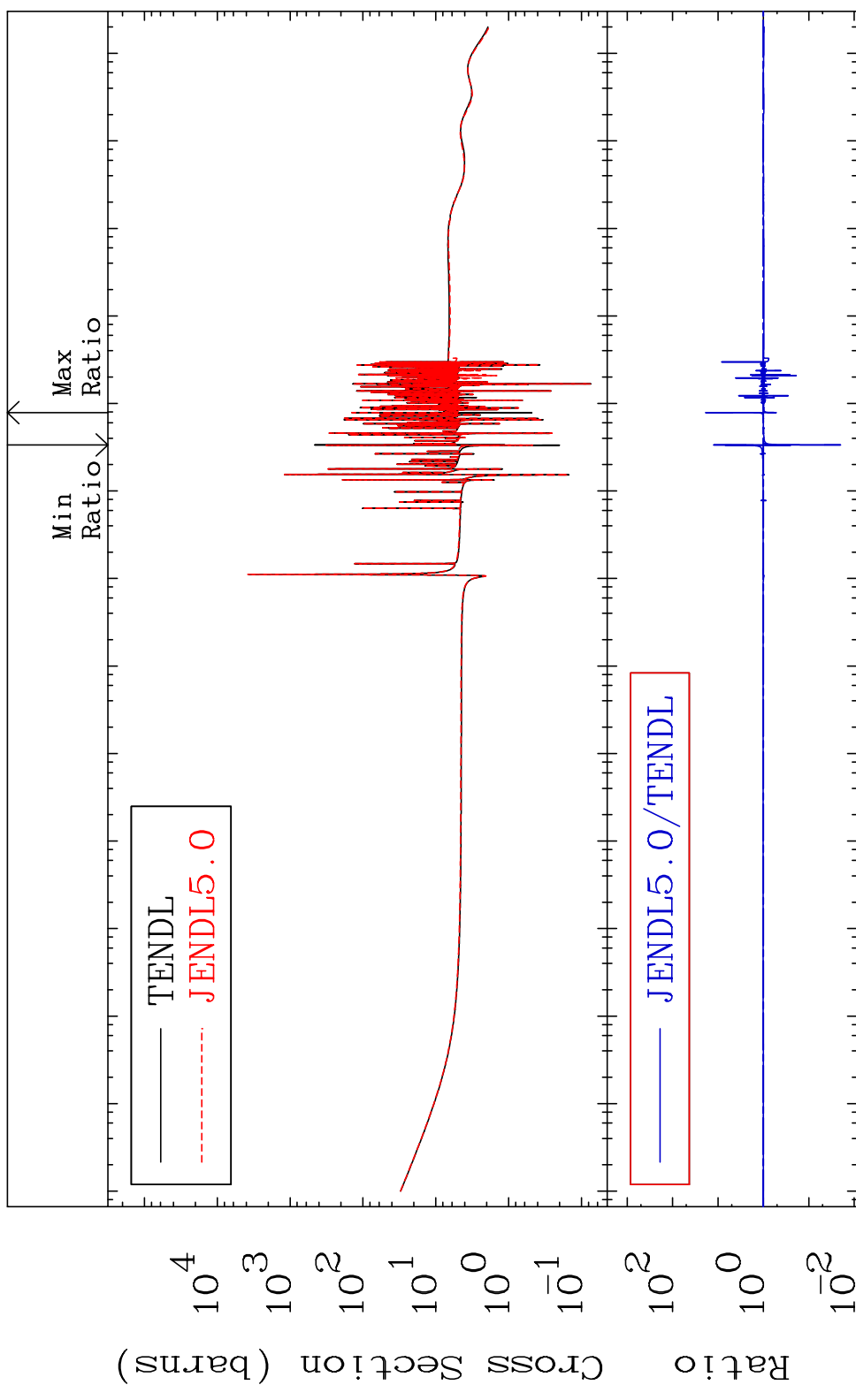
MAT 5037

Total

50-Sn-116

Cross Section

-97.99 To 1758. %



1

Incident Energy (eV)

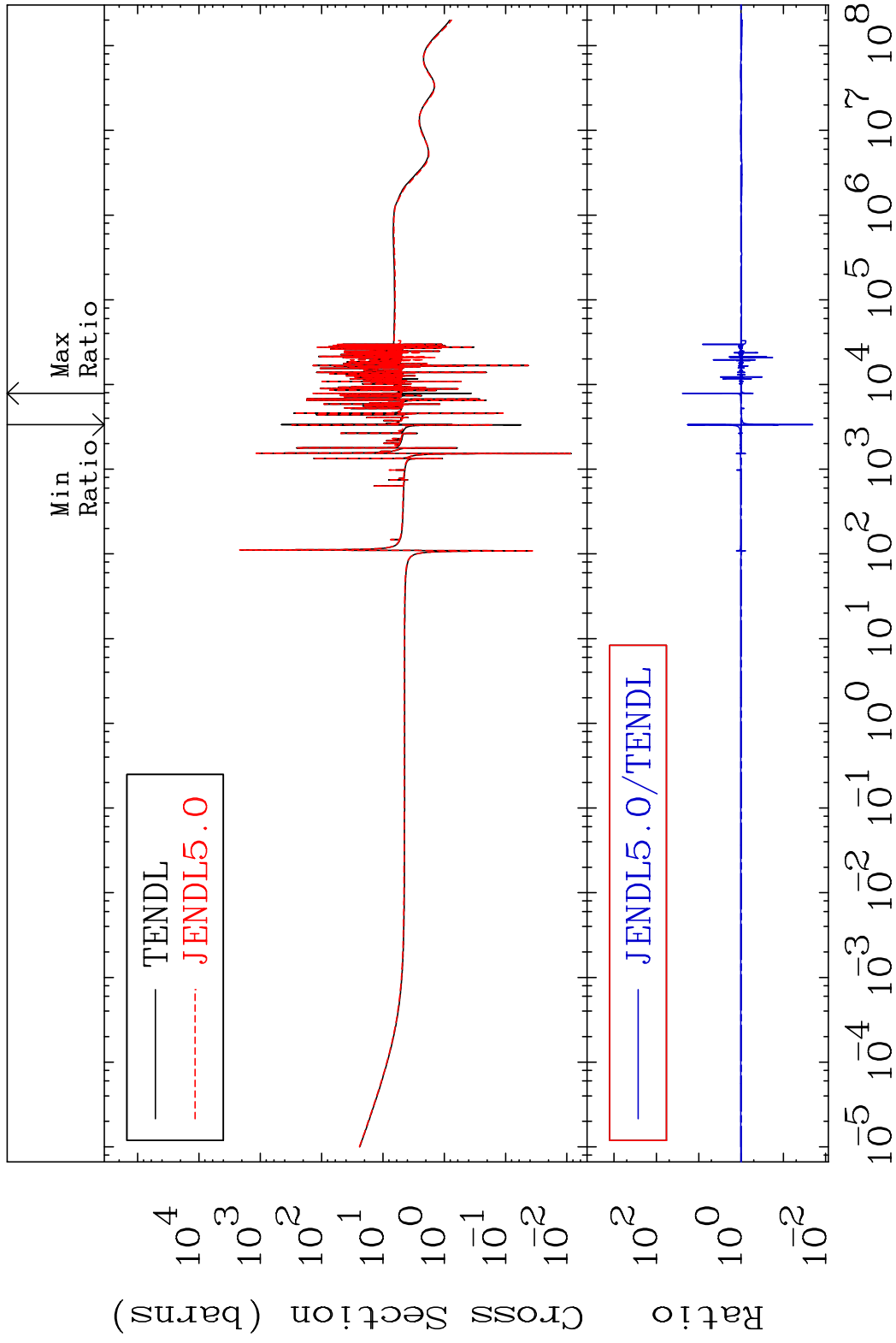
50-Sn-116

MAT 5037

Elastic

50-Sn-116

Cross Section -97.95 To 2334. %



2

Incident Energy (eV)

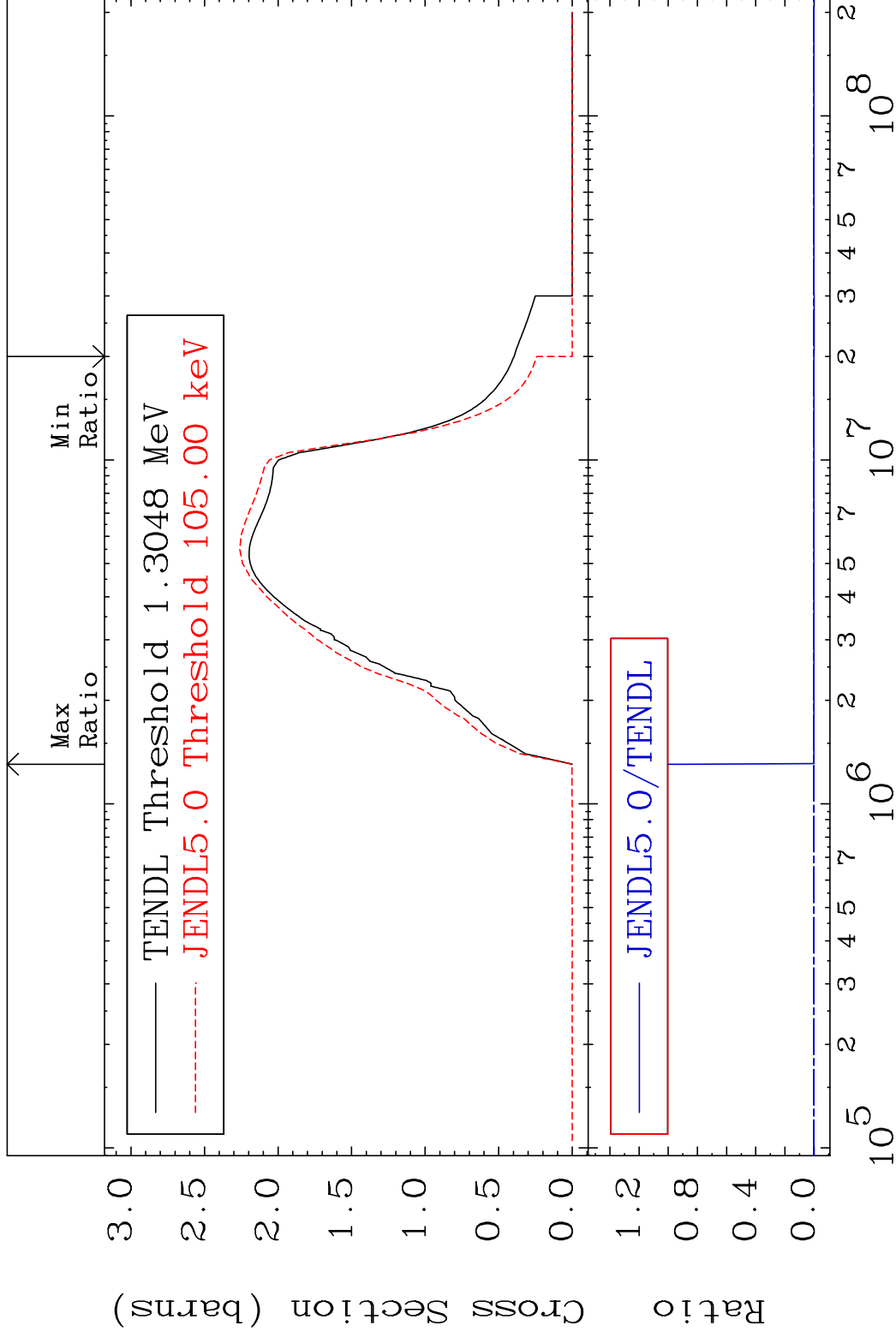
50-Sn-116

MAT 5037

Inelastic

50-Sn-116

Cross Section -100.0 To 9999. %



3

Incident Energy (eV)

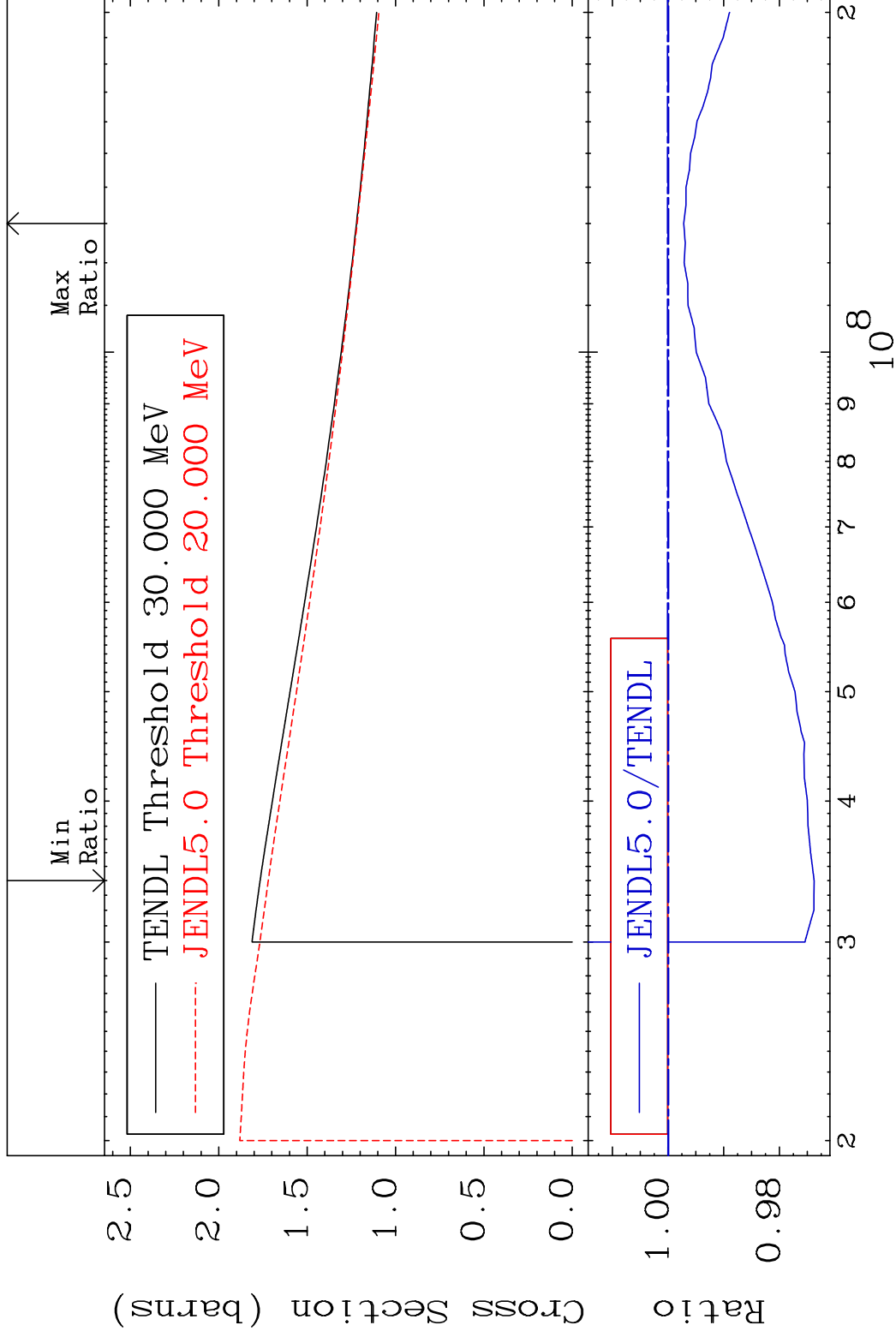
50-Sn-116

MAT 5037

(n, remainder)

50-Sn-116

Cross Section -2.623 To -0.281%



4

Incident Energy (eV)

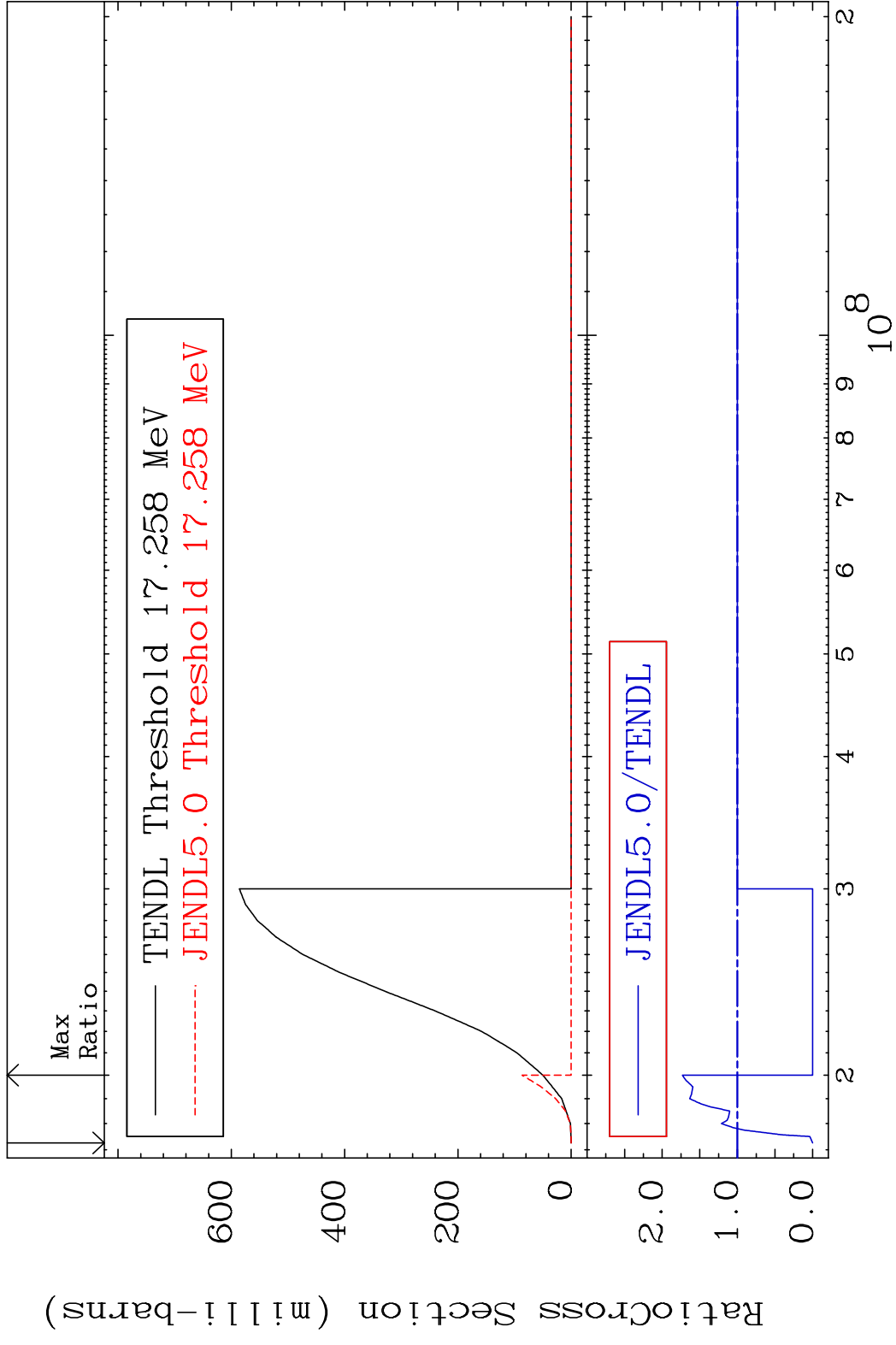
50-Sn-116

MAT 5037

(n,3n)

50-Sn-116

Cross Section -100.0 To 73.20 %

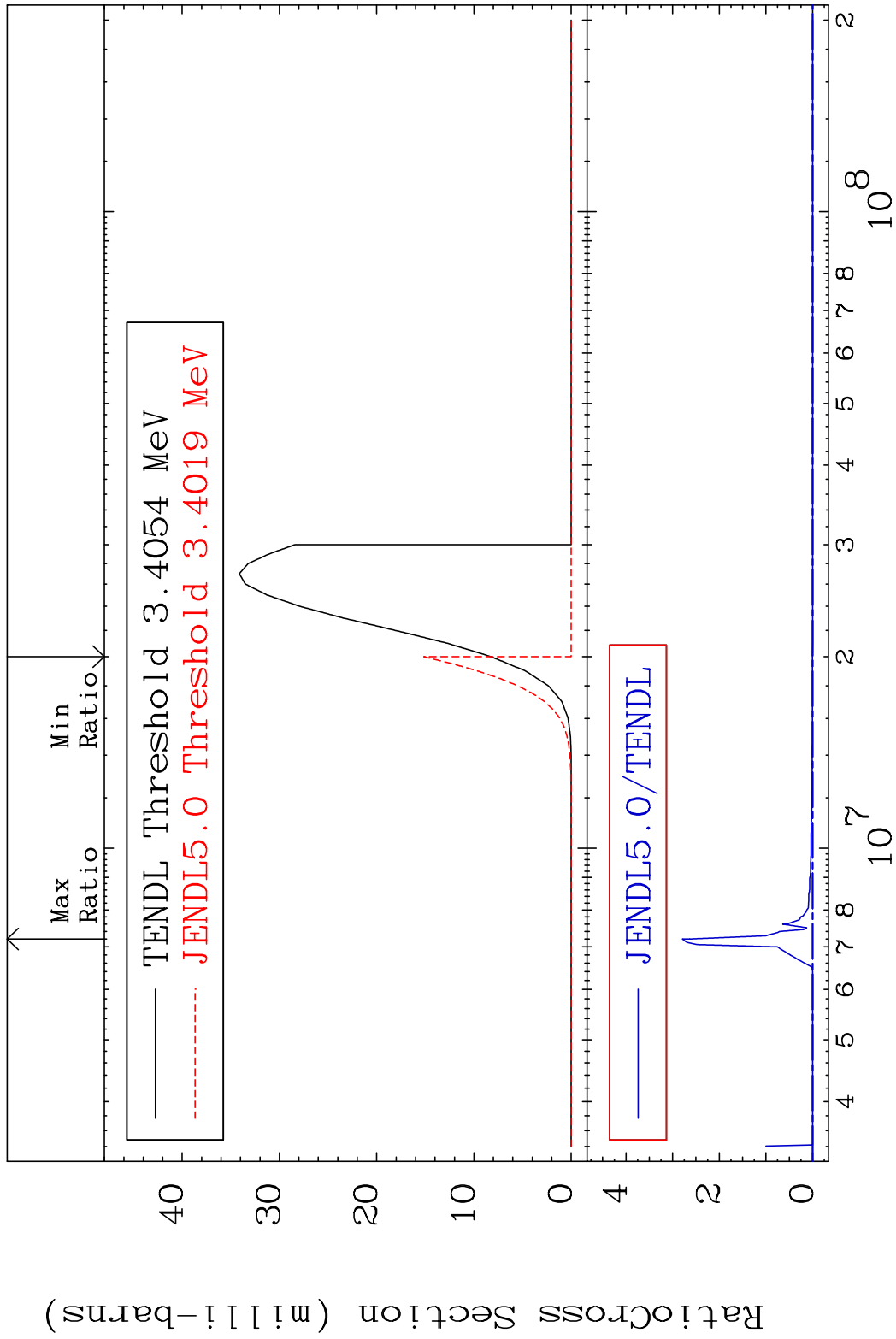


MAT 5037

(n, n') α

50-Sn-116

Cross Section -100.0 To 9999. %

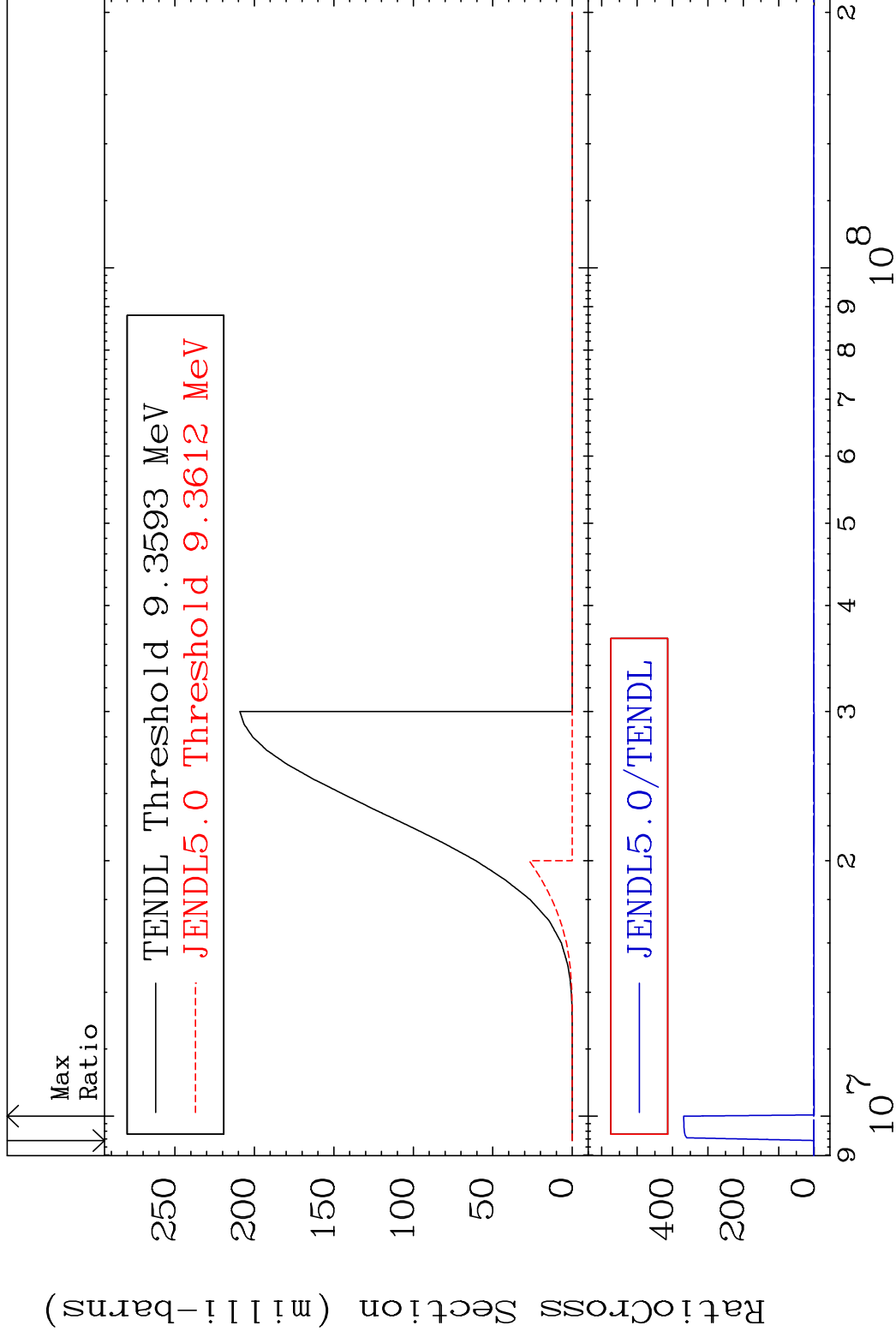


MAT 5037

(n, n') p

50-Sn-116

Cross Section -100.0 To 9999. %

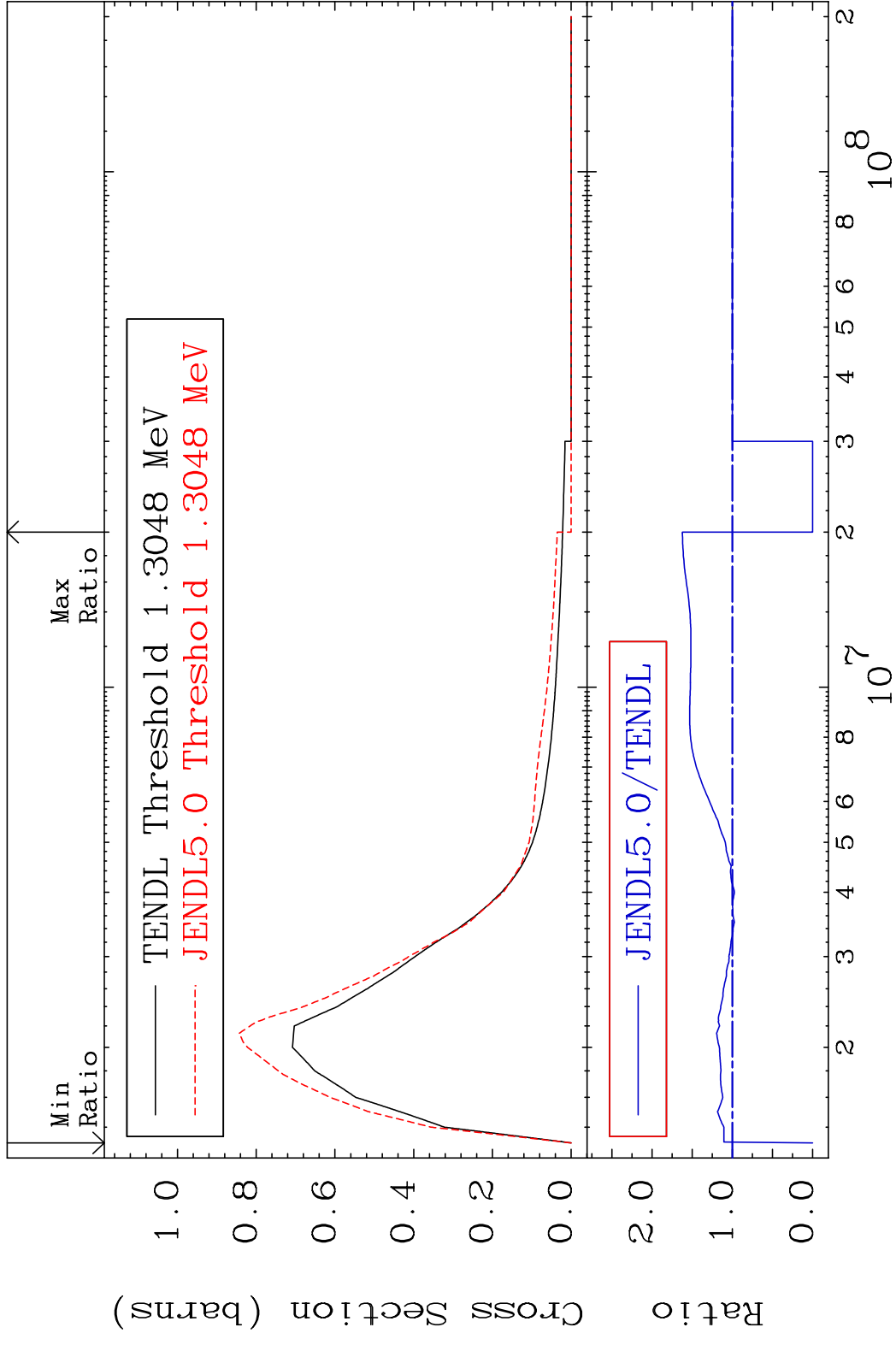


8

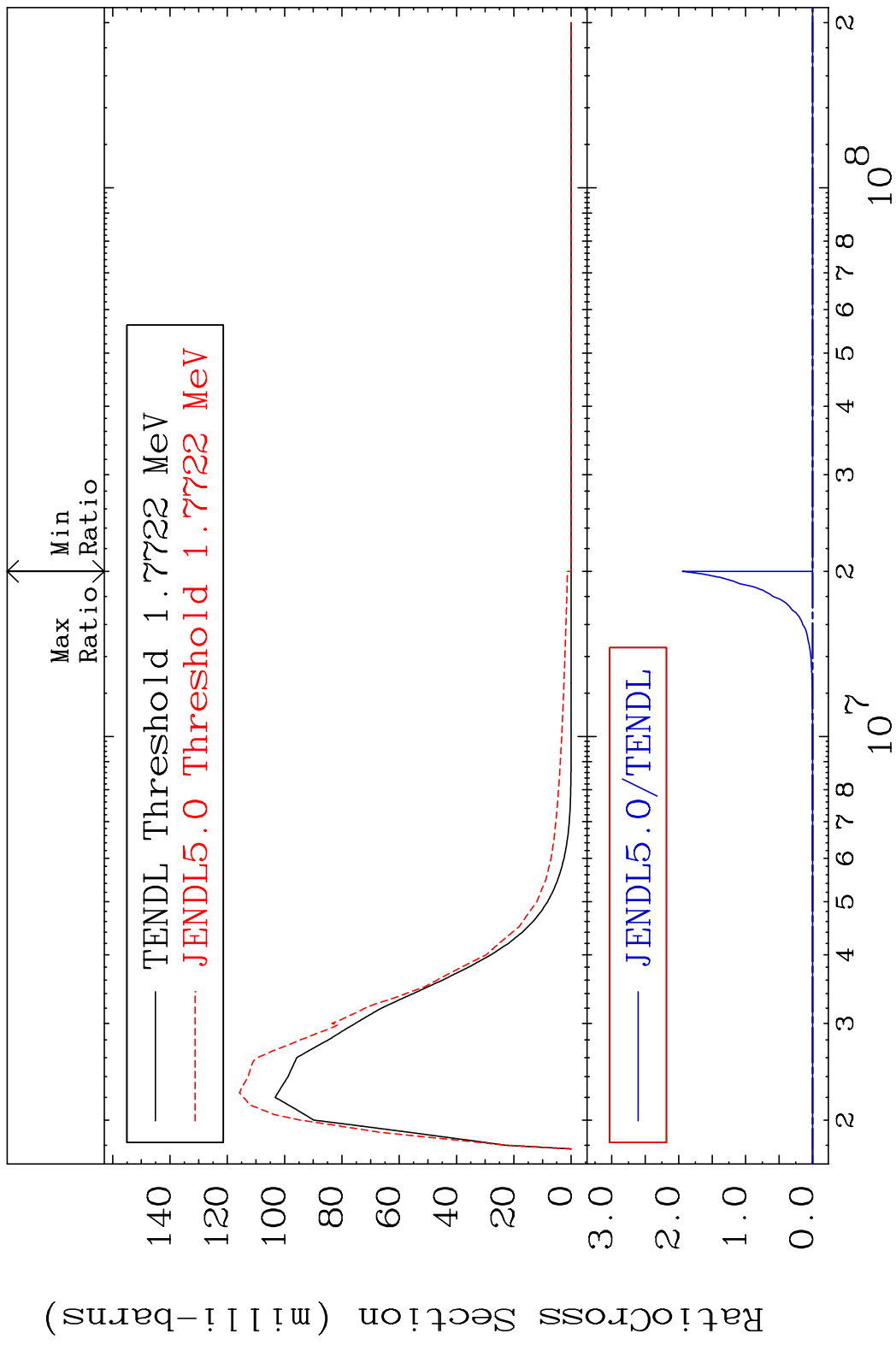
Incident Energy (eV)

50-Sn-116

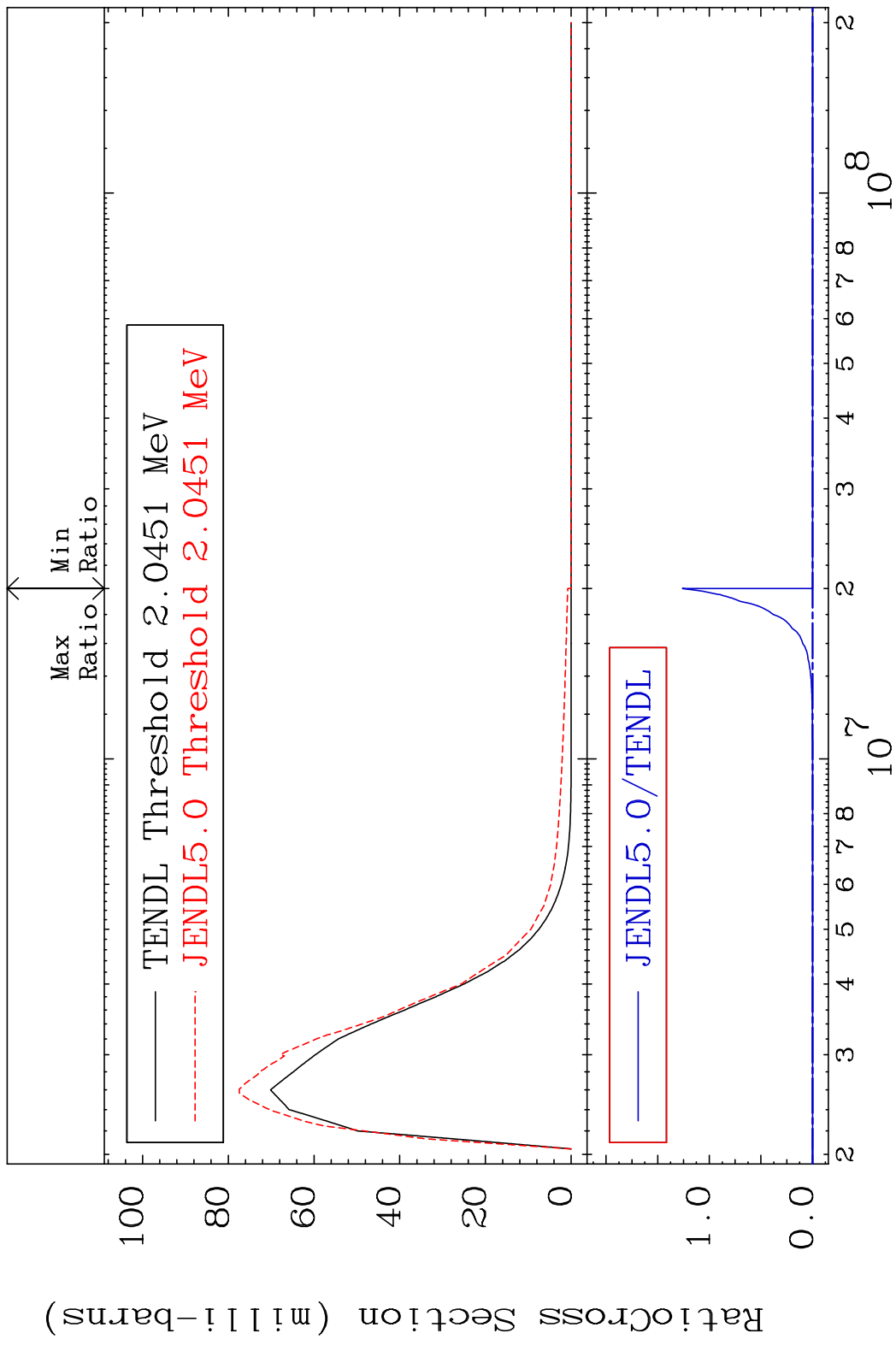
MAT 5037 MT= 51 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 62.29 %



MAT 5037 MT= 52 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 9999. %

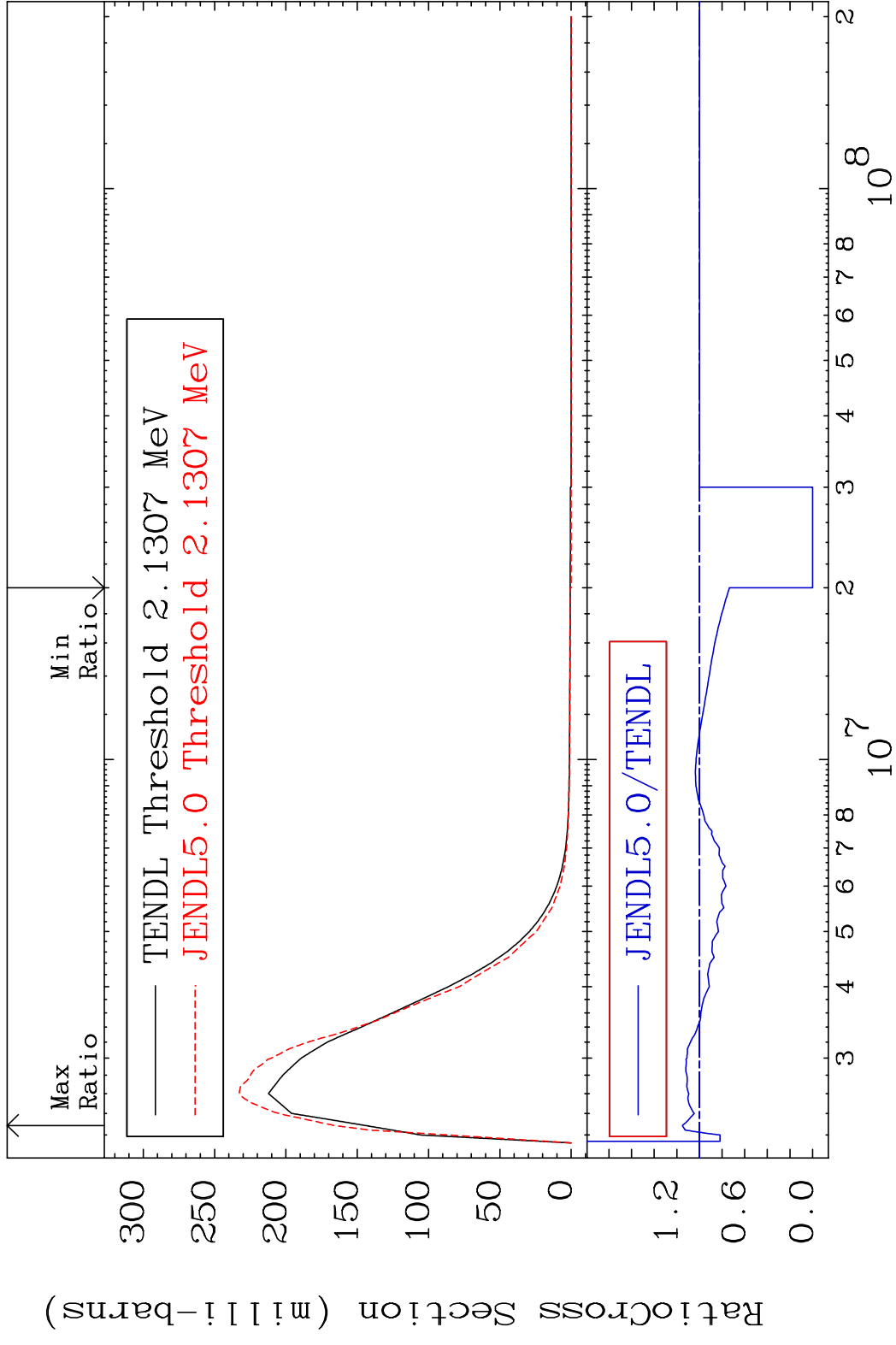


MAT 5037 MT= 53 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 9999. %

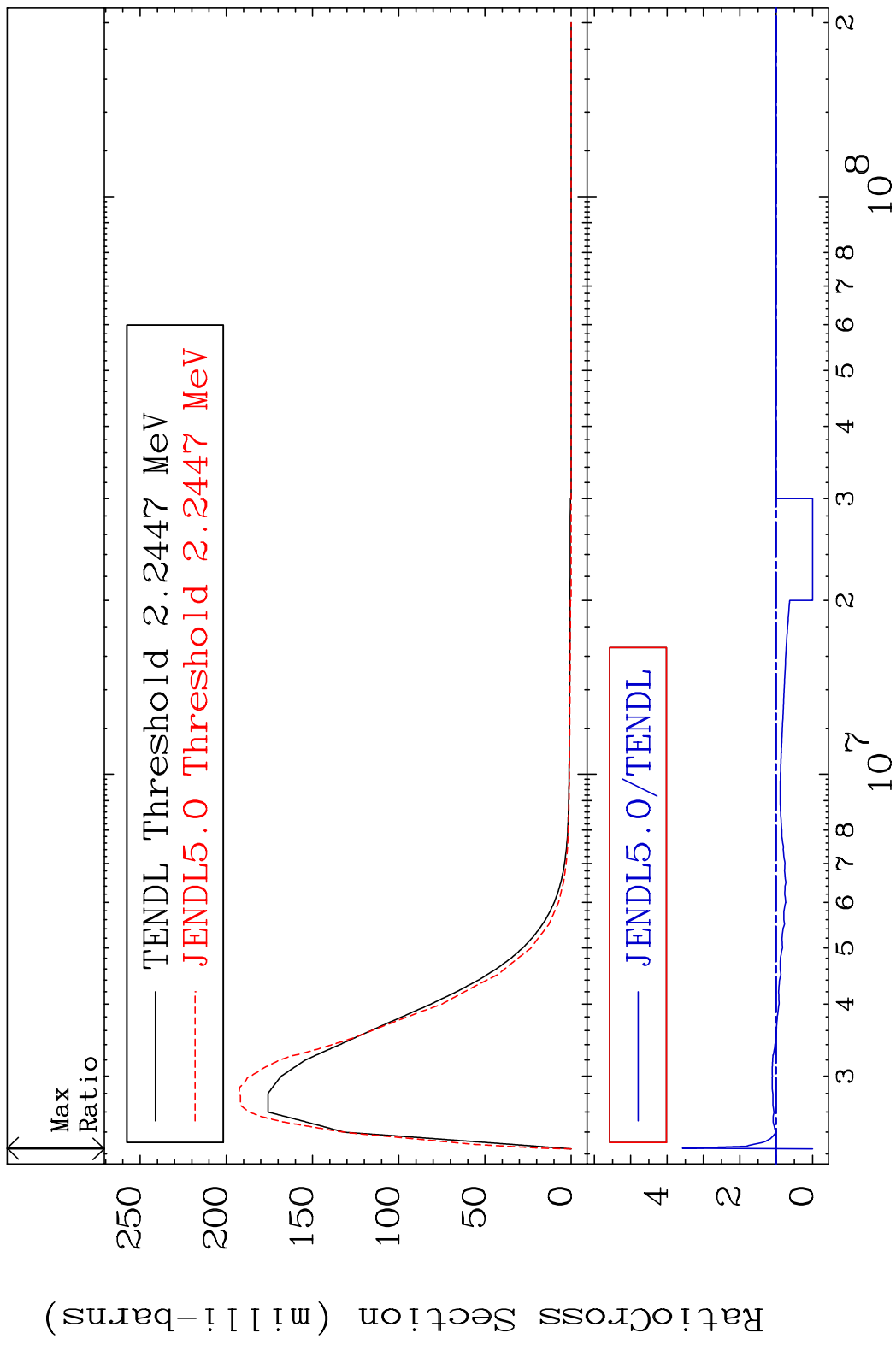


11 Incident Energy (eV) 50-Sn-116

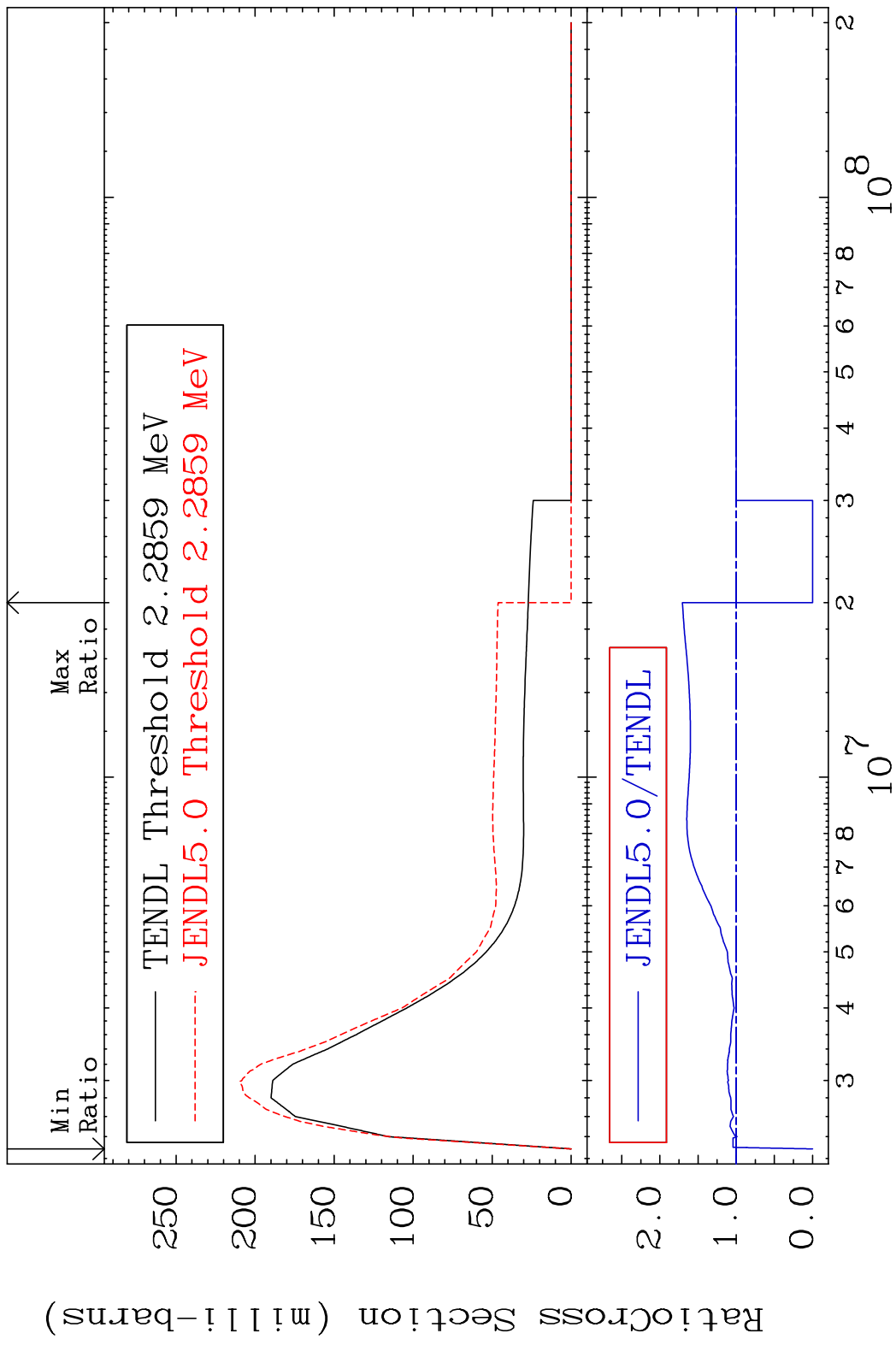
MAT 5037 MT= 54 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 15.11 %



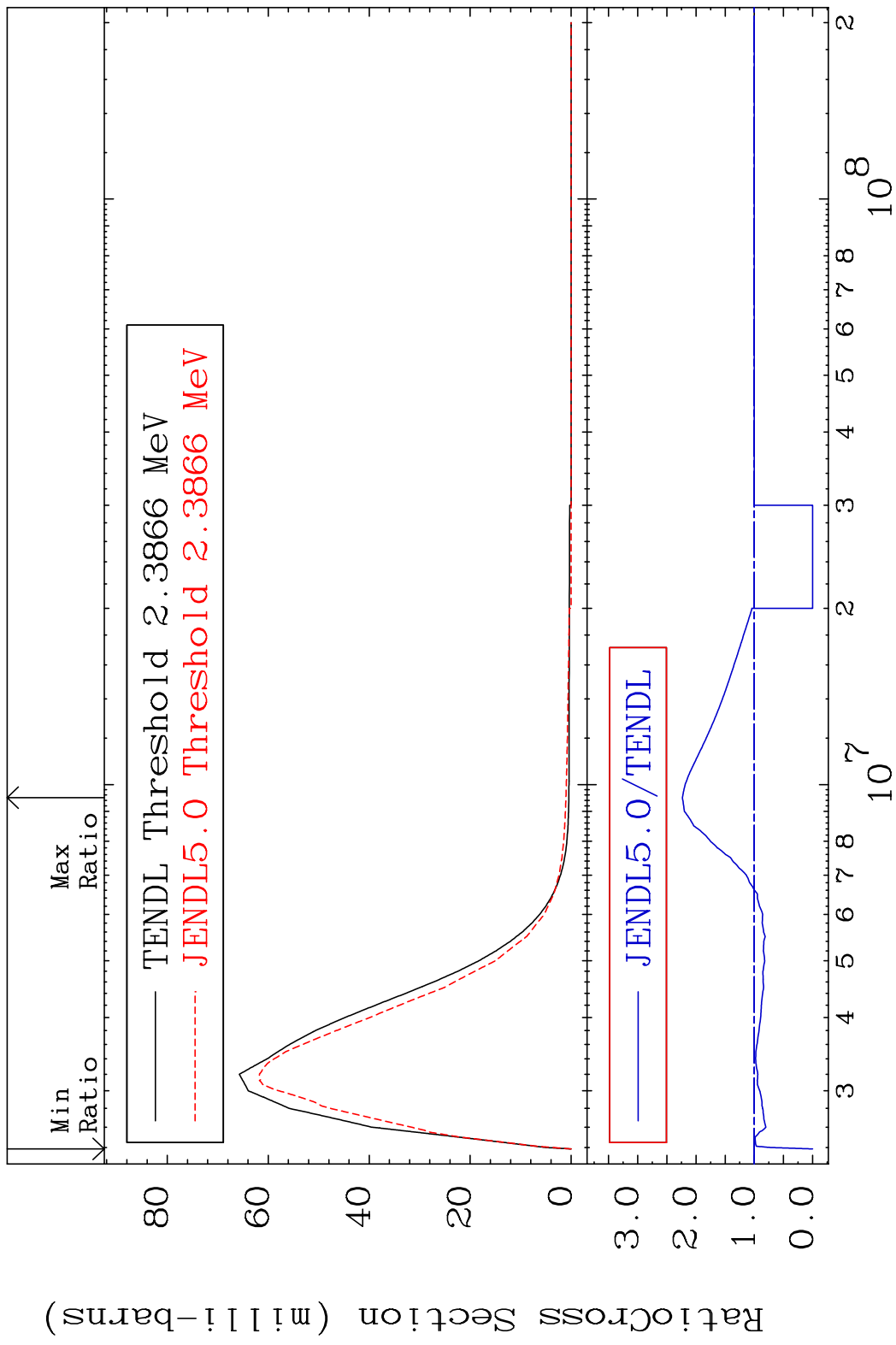
MAT 5037 MT= 55 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 258.0 %



MAT 5037 MT= 56 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 70.60 %

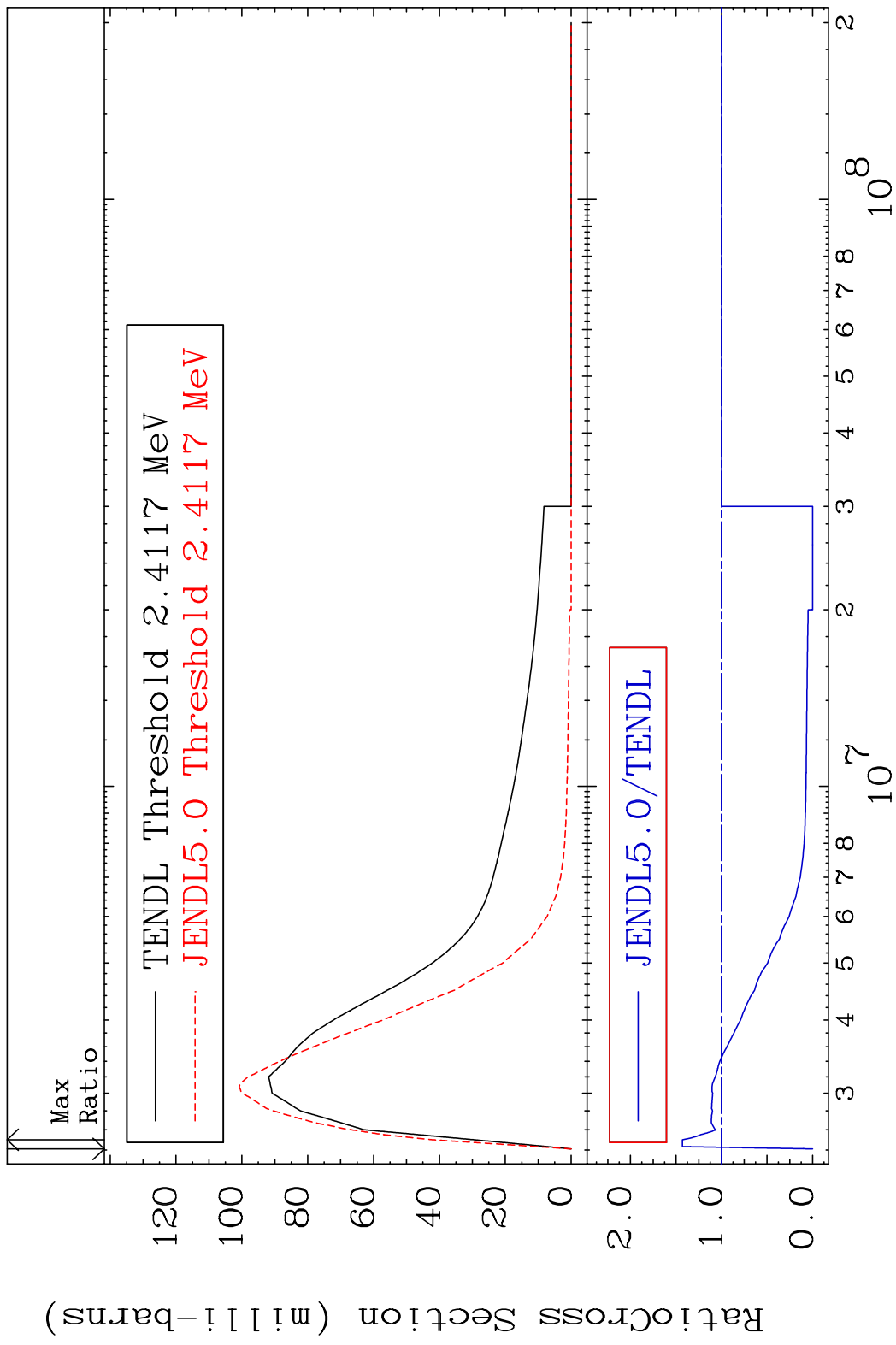


MAT 5037 MT= 57 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 123.4 %



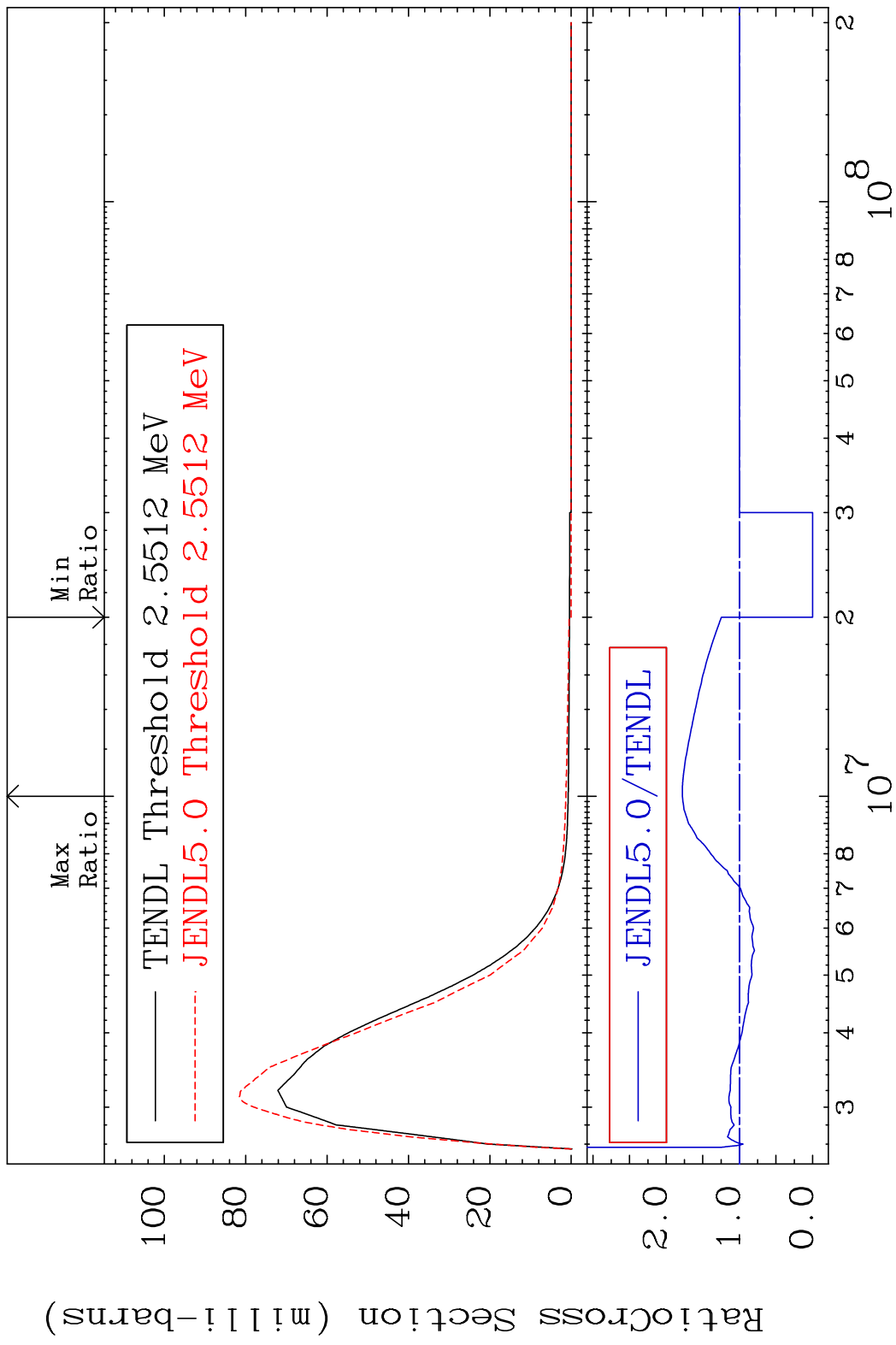
15 Incident Energy (eV) 50-Sn-116

MAT 5037 MT= 58 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 43.04 %



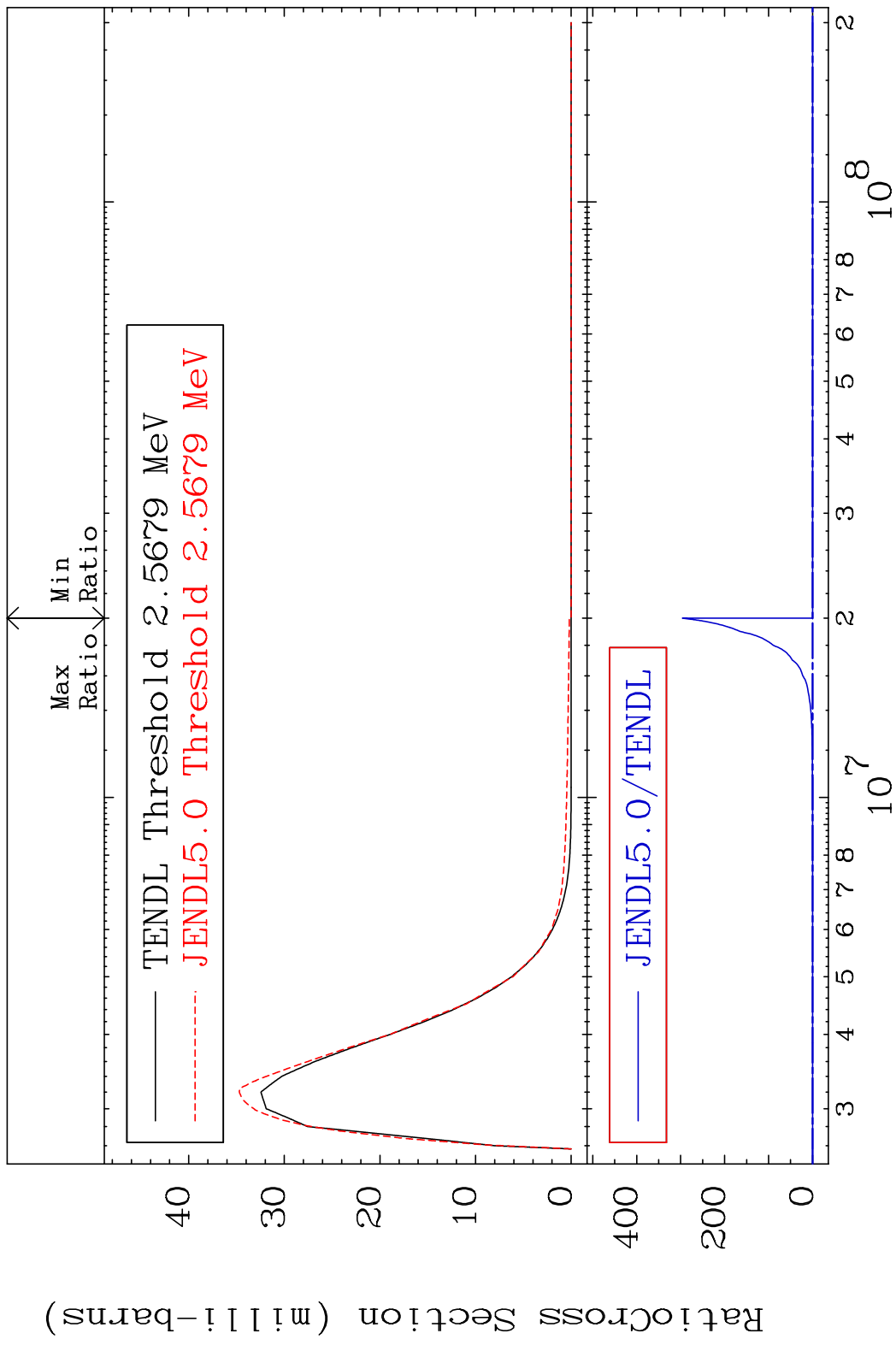
16 Incident Energy (eV) 50-Sn-116

MAT 5037 MT= 59 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 77.90 %



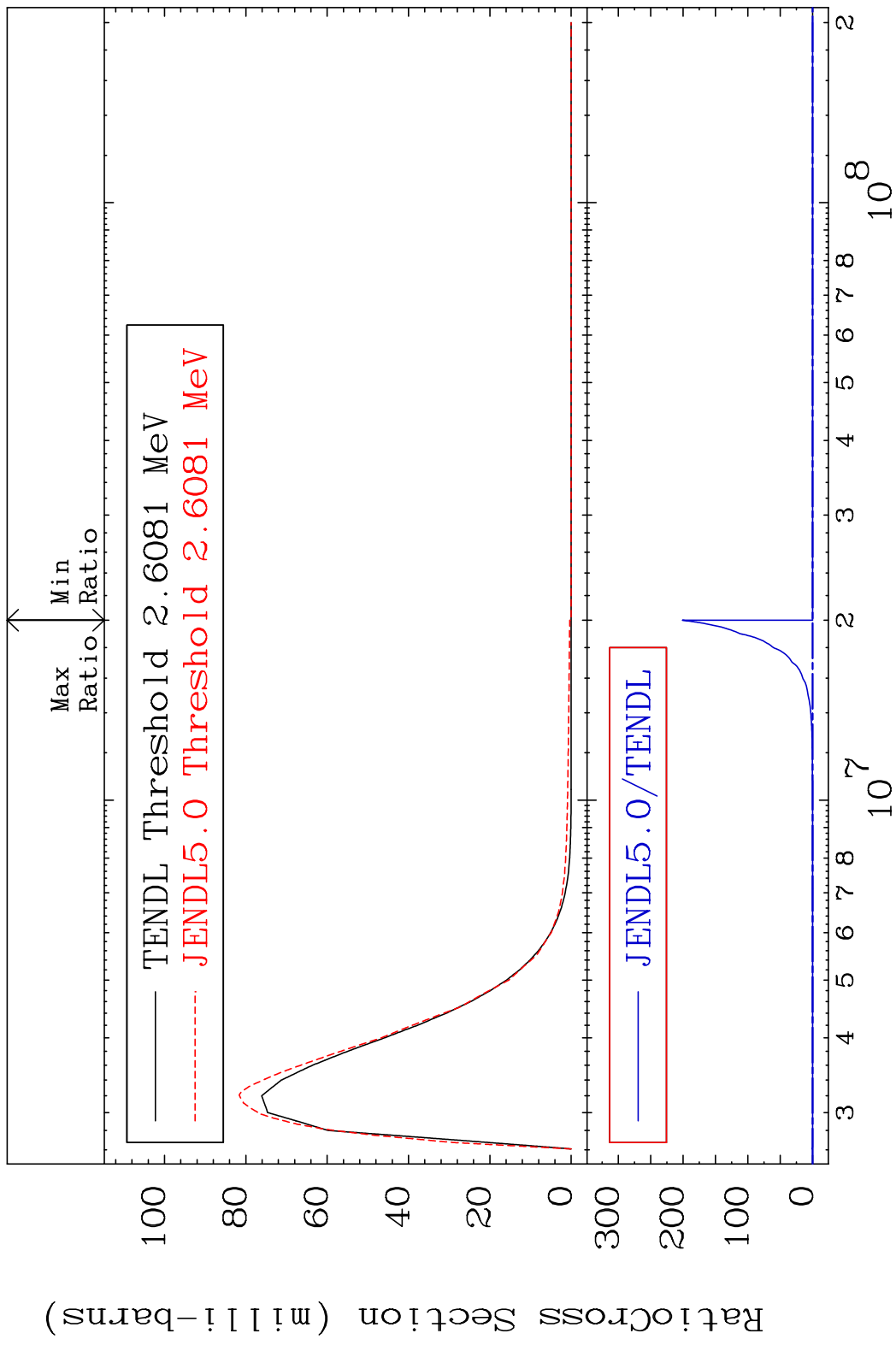
17 Incident Energy (eV) 50-Sn-116

MAT 5037 MT= 60 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 9999. %



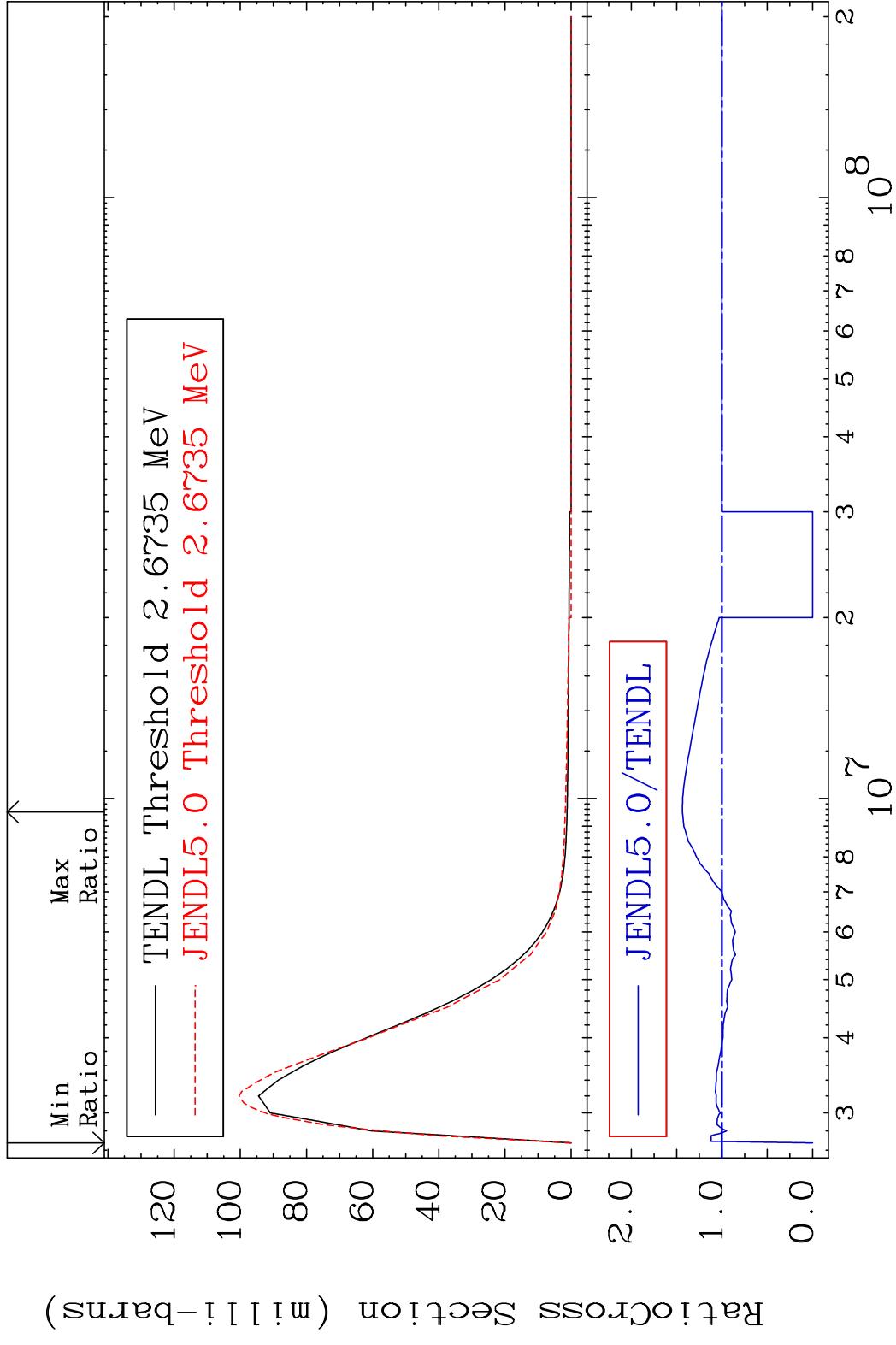
18 50-Sn-116

MAT 5037 MT= 61 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 9999. %



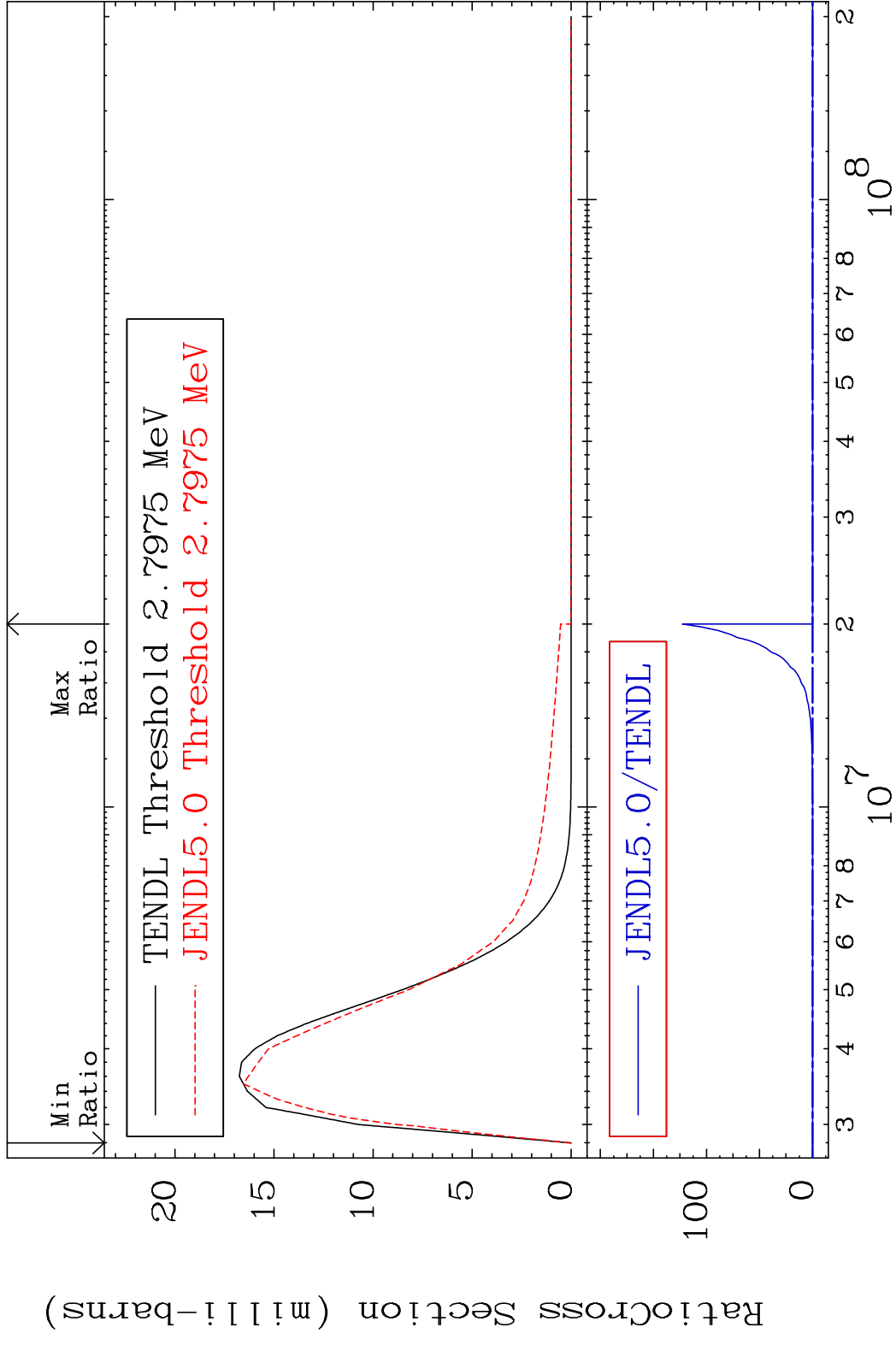
19 50-Sn-116

MAT 5037 MT= 62 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 43.71 %

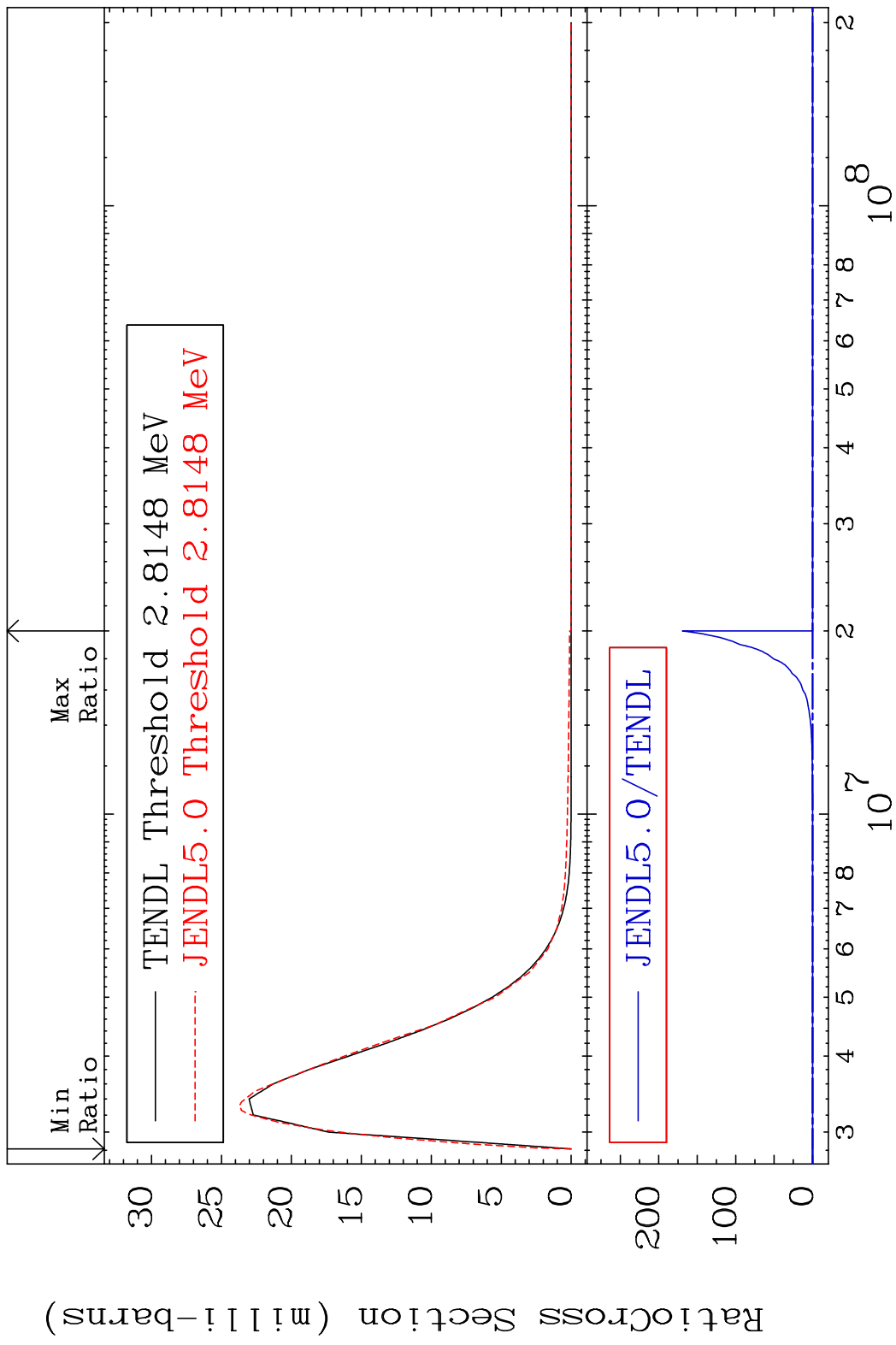


20 Incident Energy (eV) 50-Sn-116

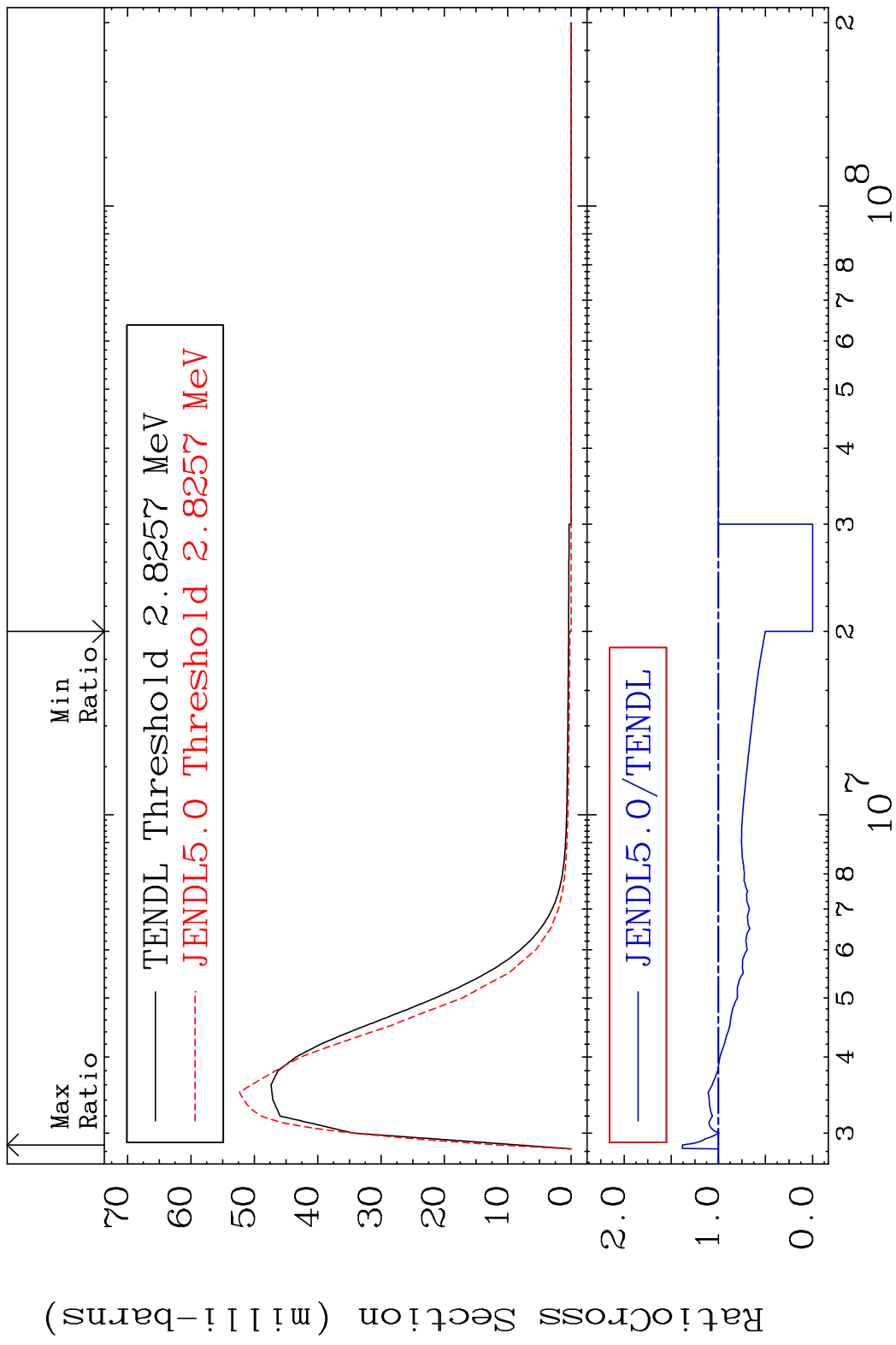
MAT 5037 MT= 63 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 9999. %



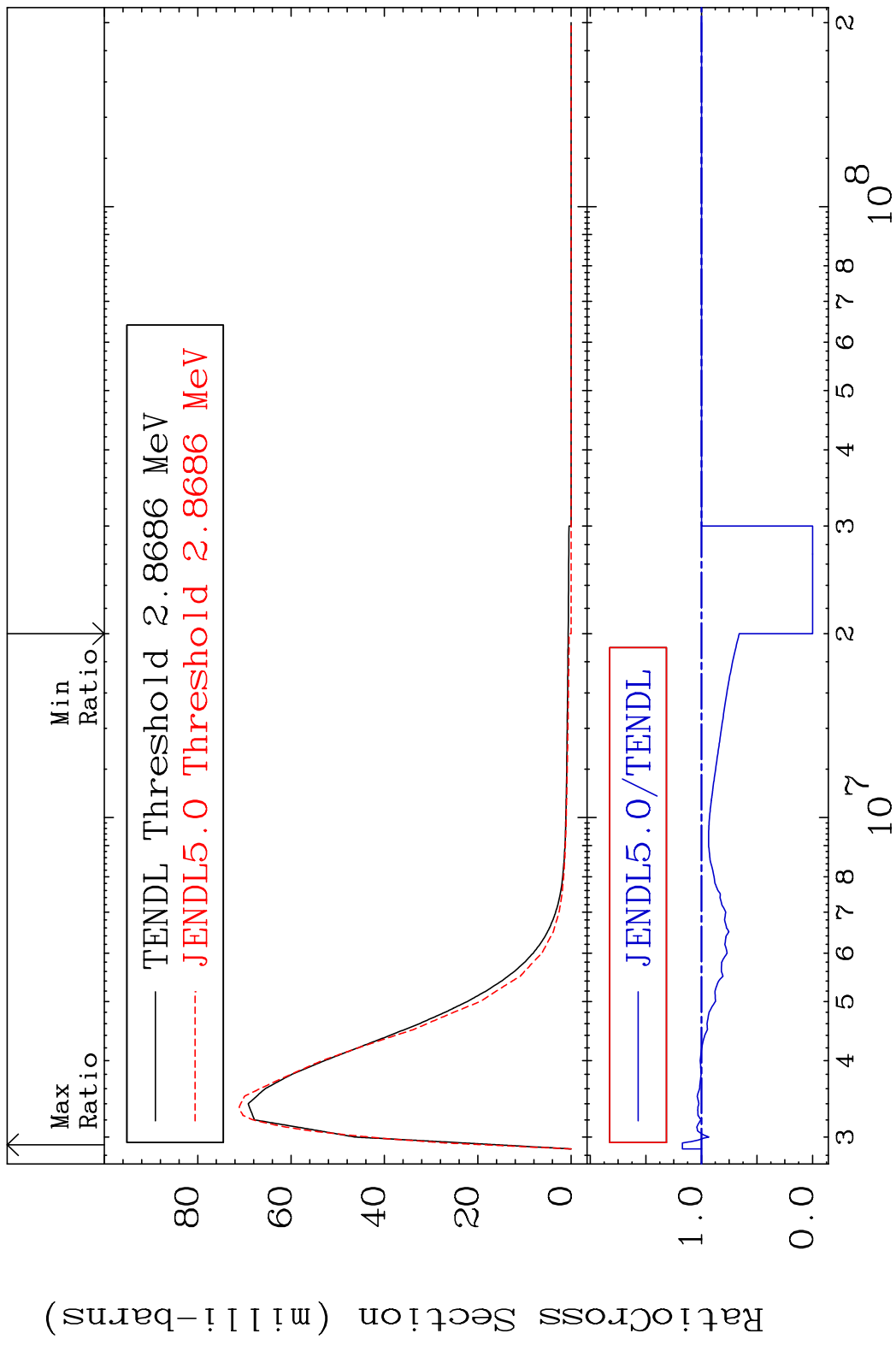
MAT 5037 MT= 64 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 9999. %



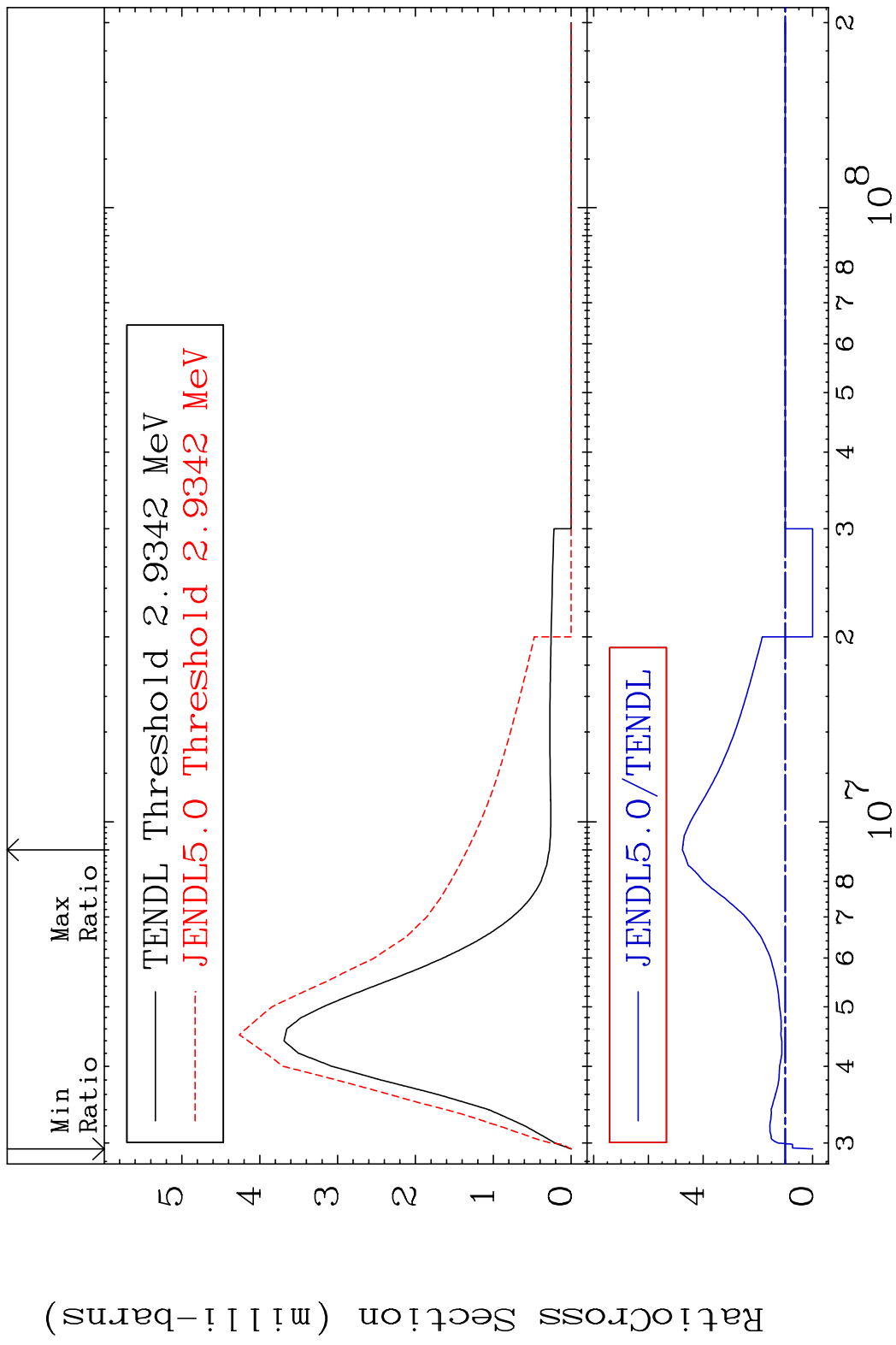
MAT 5037 MT= 65 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 38.27 %



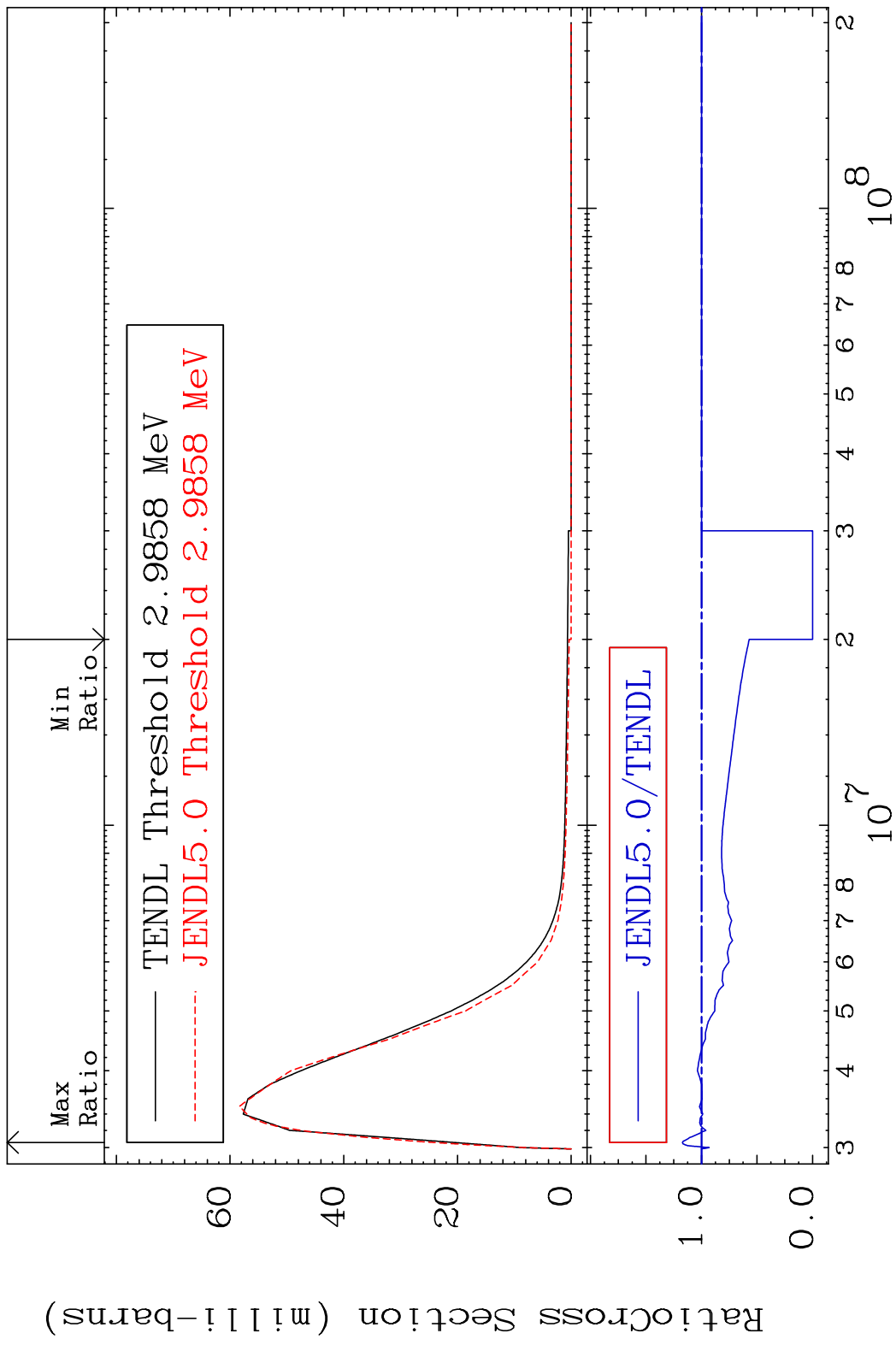
MAT 5037 MT= 66 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 17.18 %



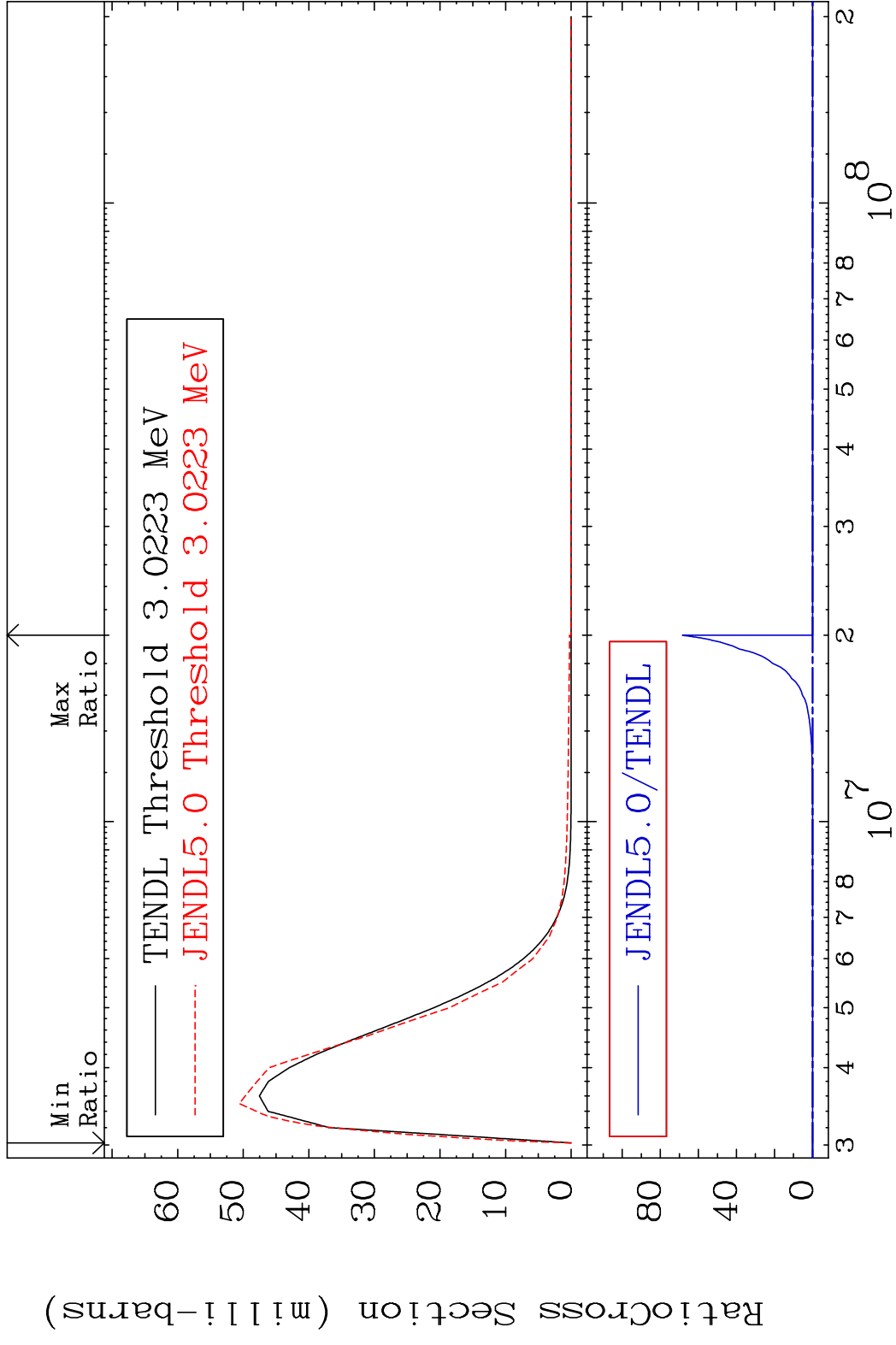
MAT 5037 MT= 67 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 376.0 %



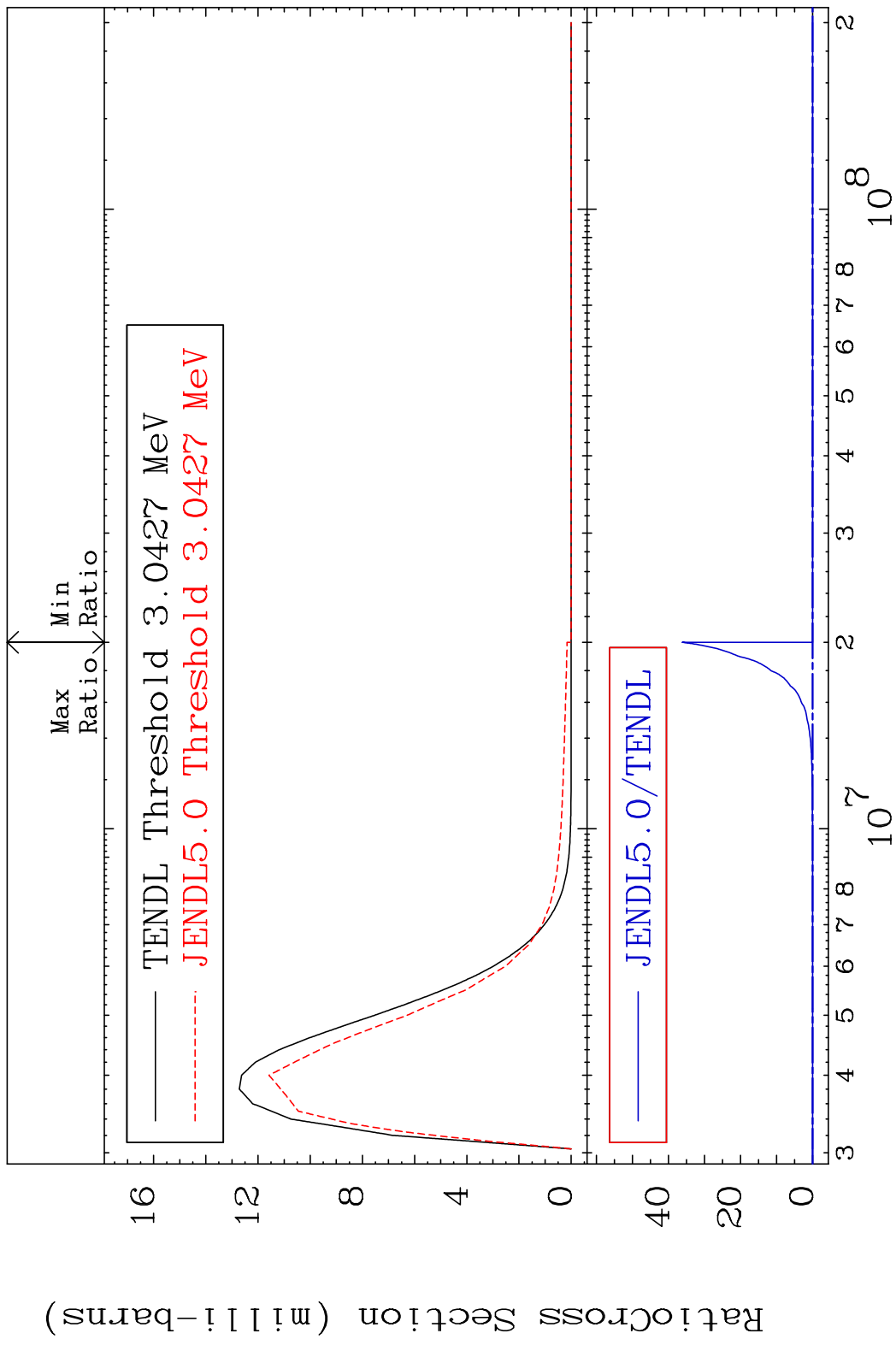
MAT 5037 MT= 68 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 17.27 %



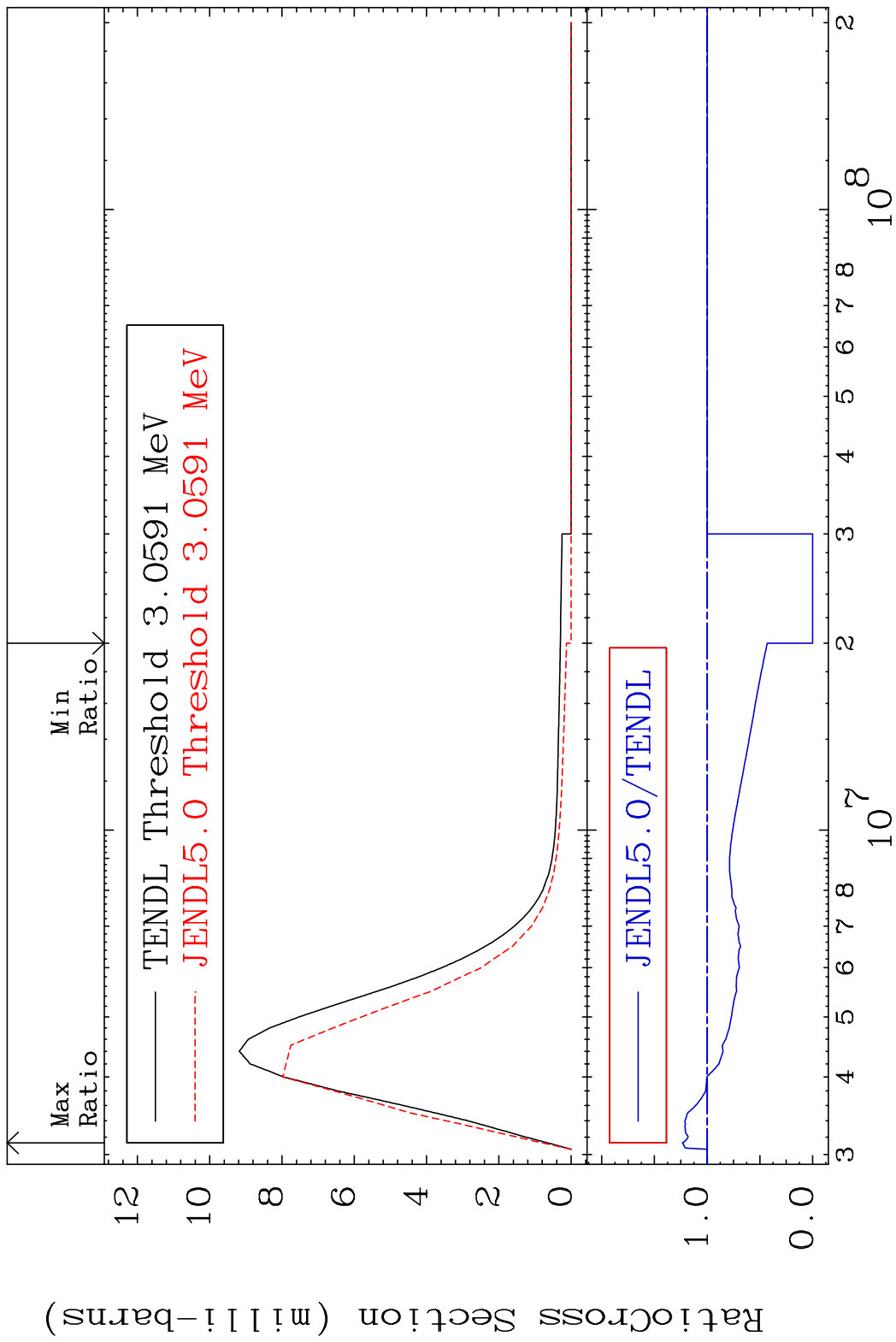
MAT 5037 MT= 69 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 9999. %



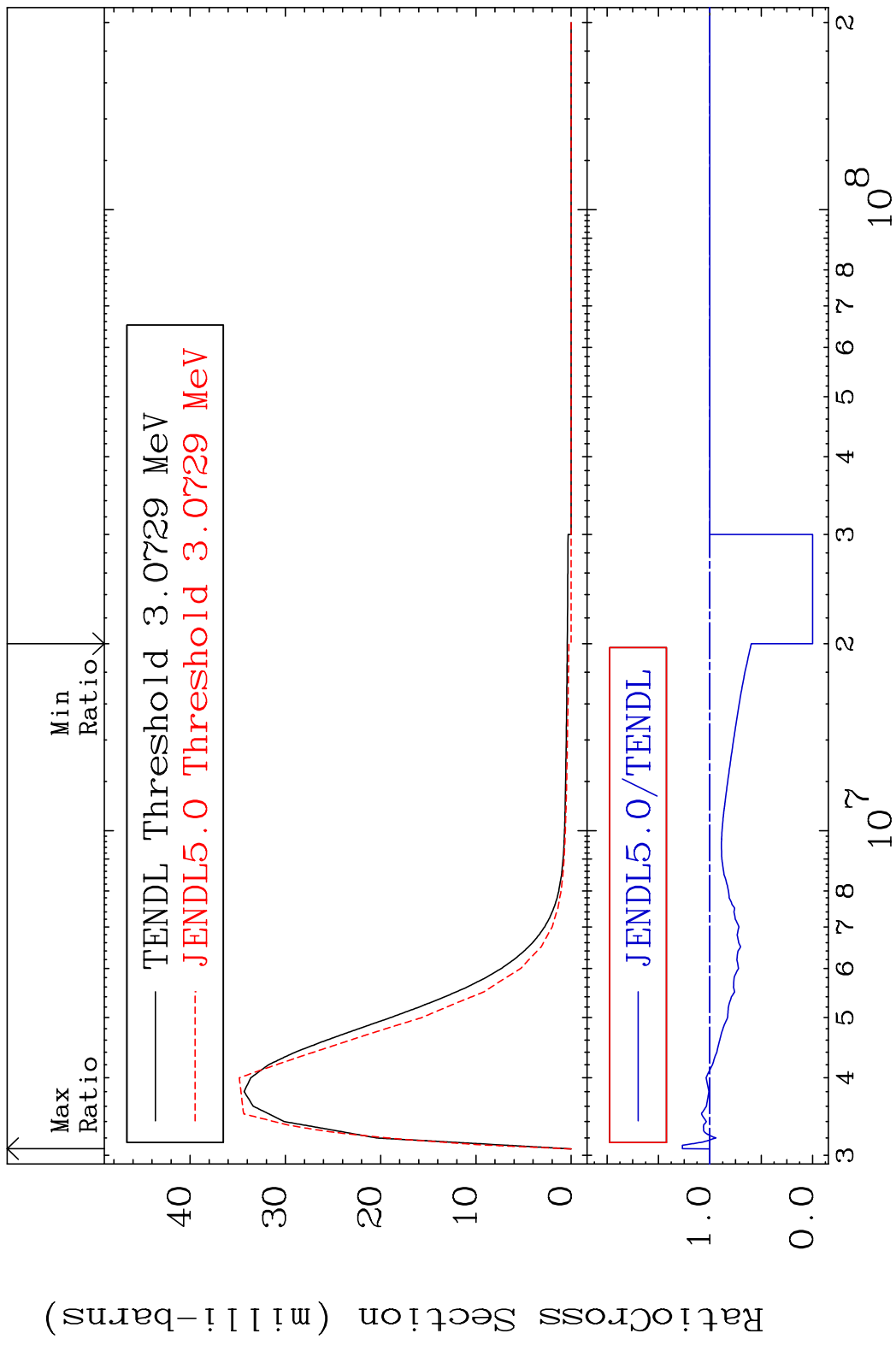
MAT 5037 MT= 70 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 9999. %



MAT 5037 MT= 71 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 23.52 %

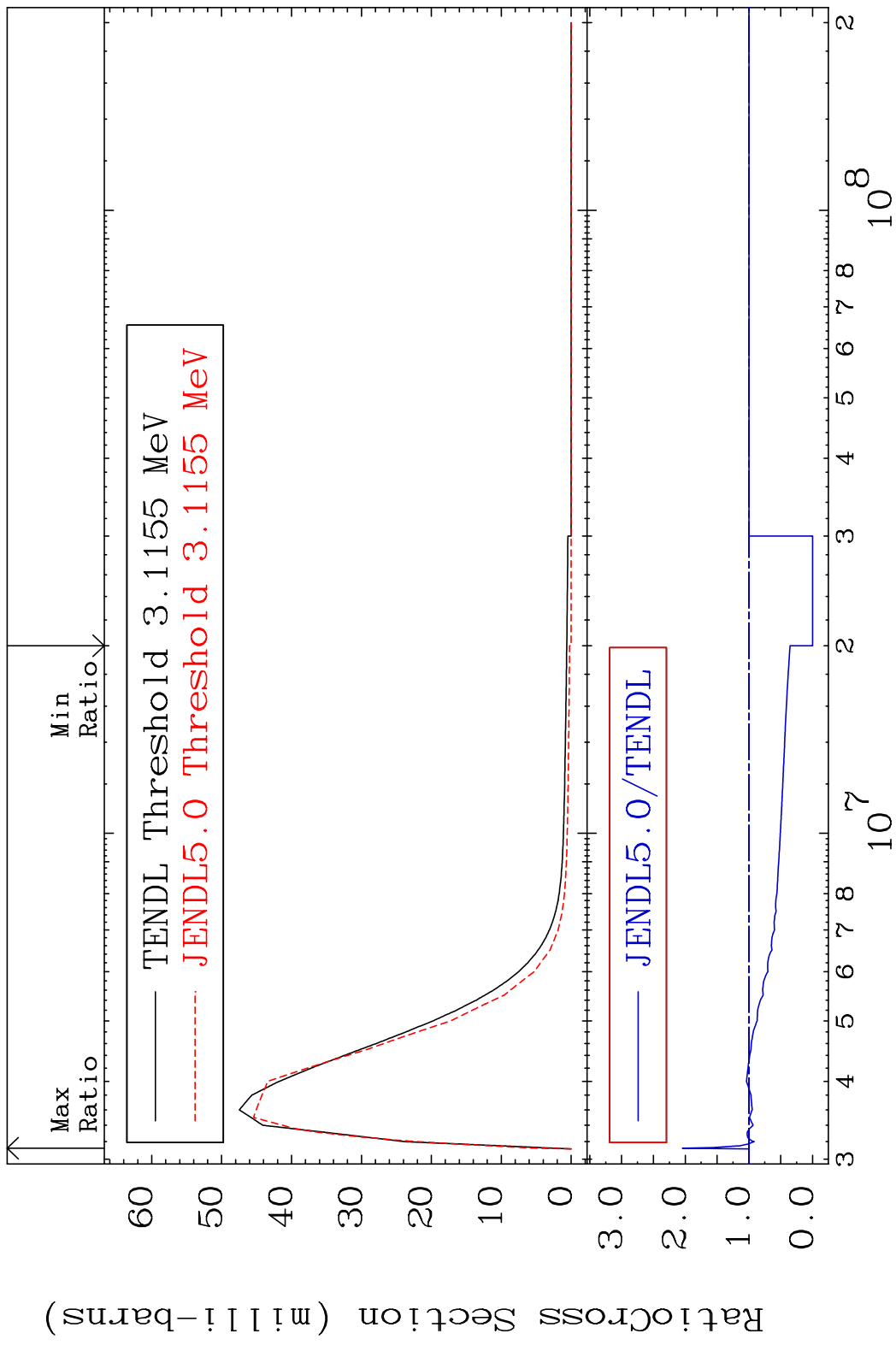


MAT 5037 MT= 72 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 26.74 %

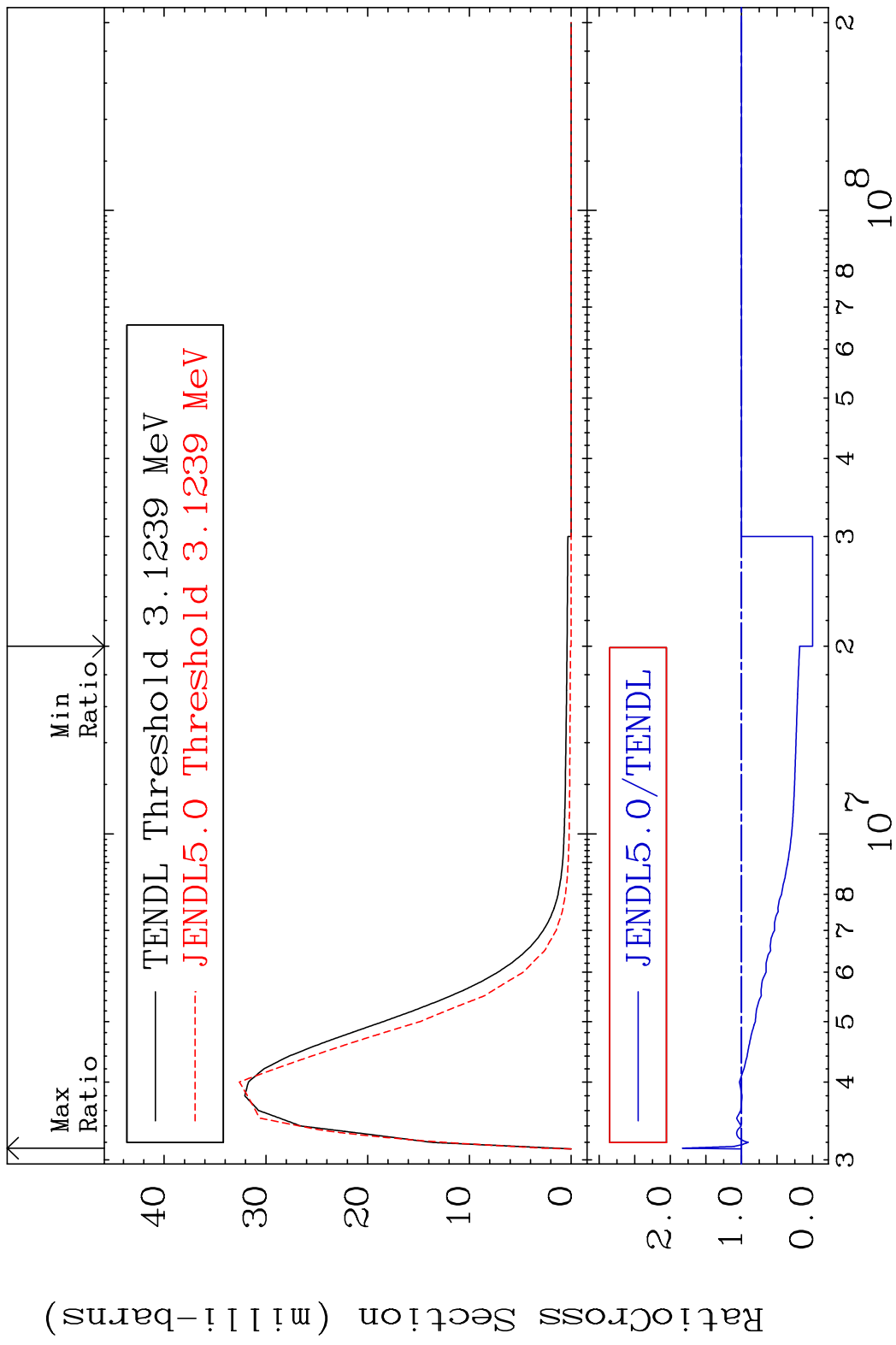


30 50-Sn-116

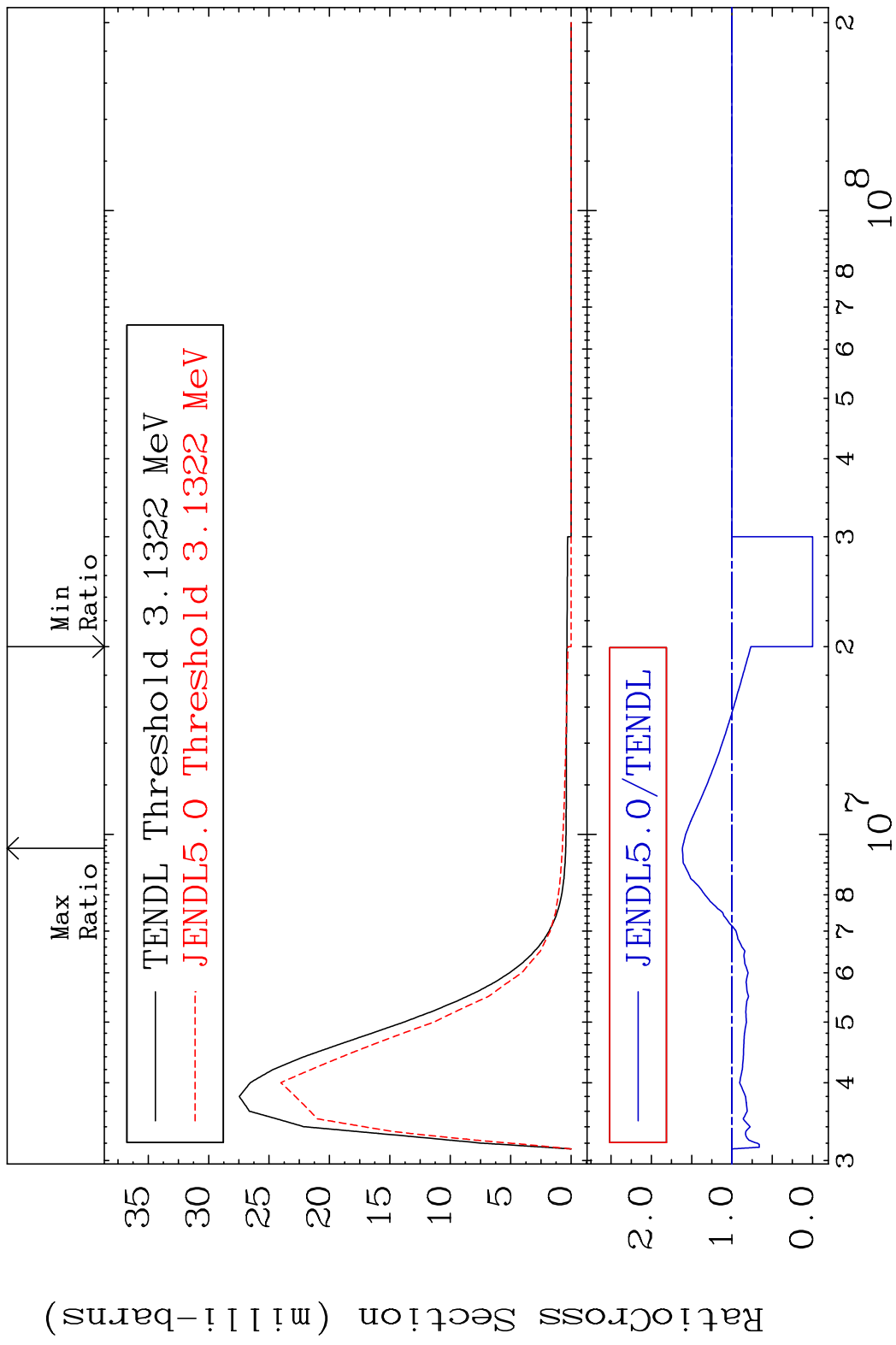
MAT 5037 MT= 73 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 104.6 %



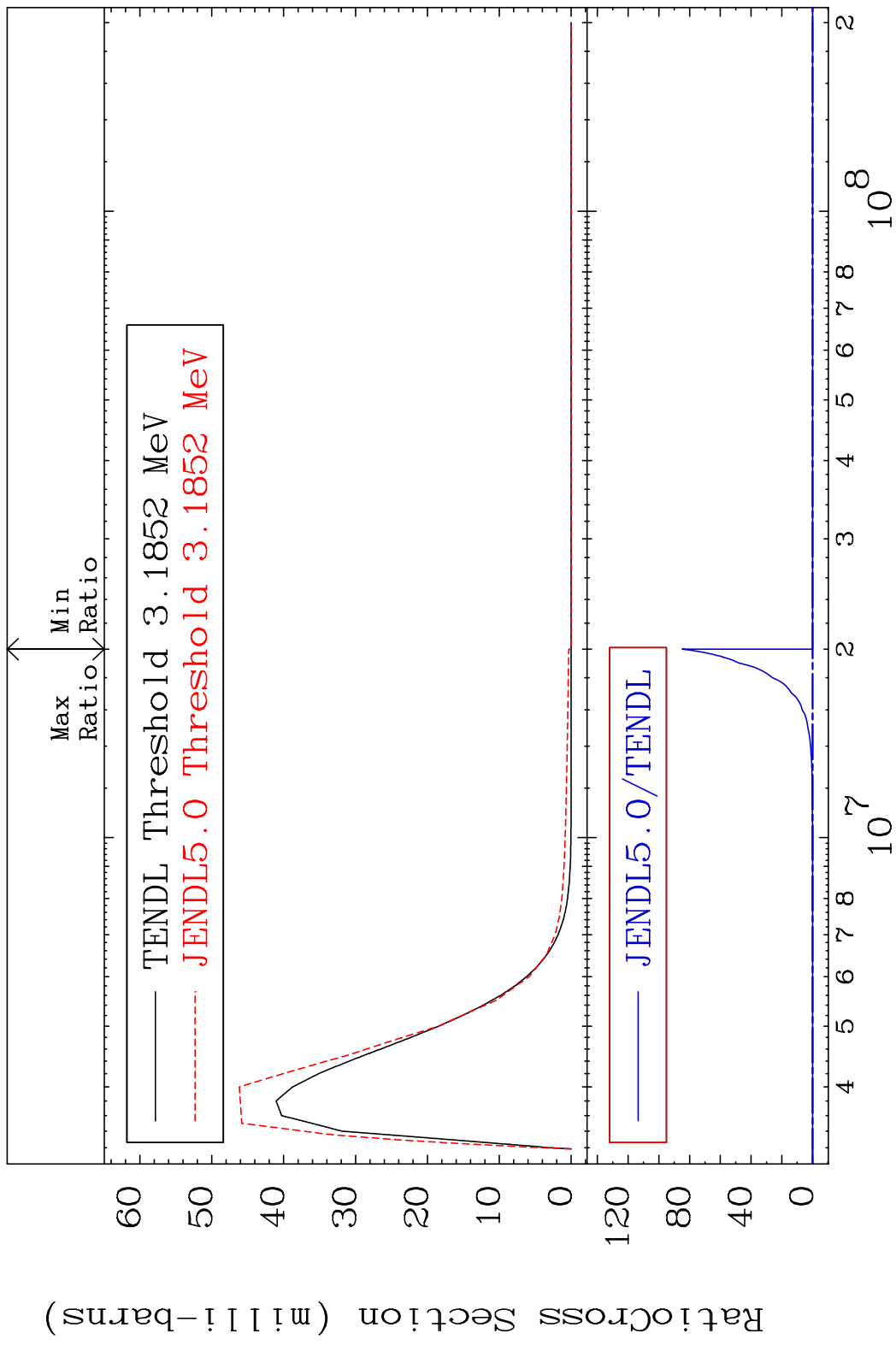
MAT 5037 MT= 74 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 83.01 %



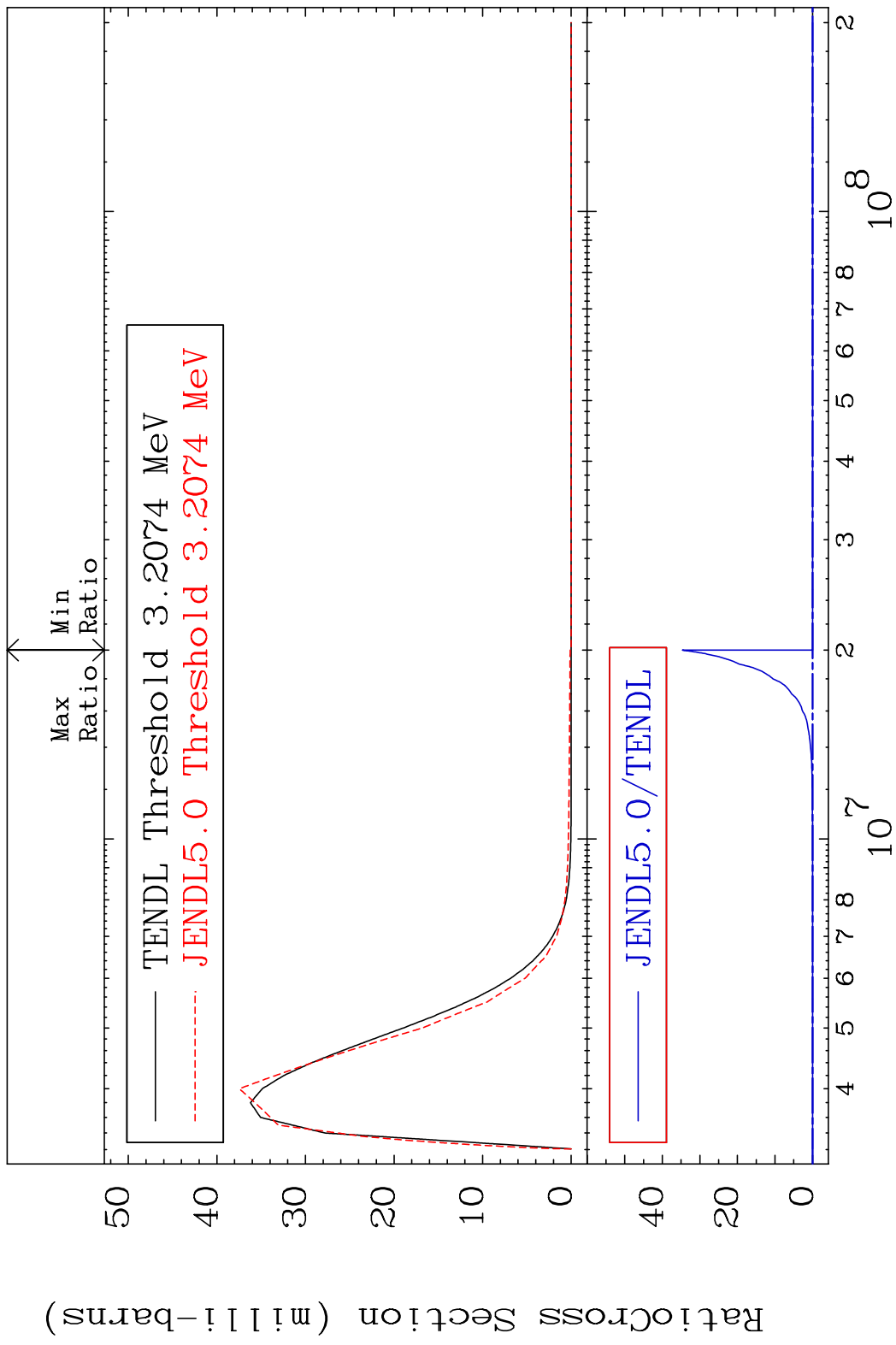
MAT 5037 MT= 75 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 61.56 %



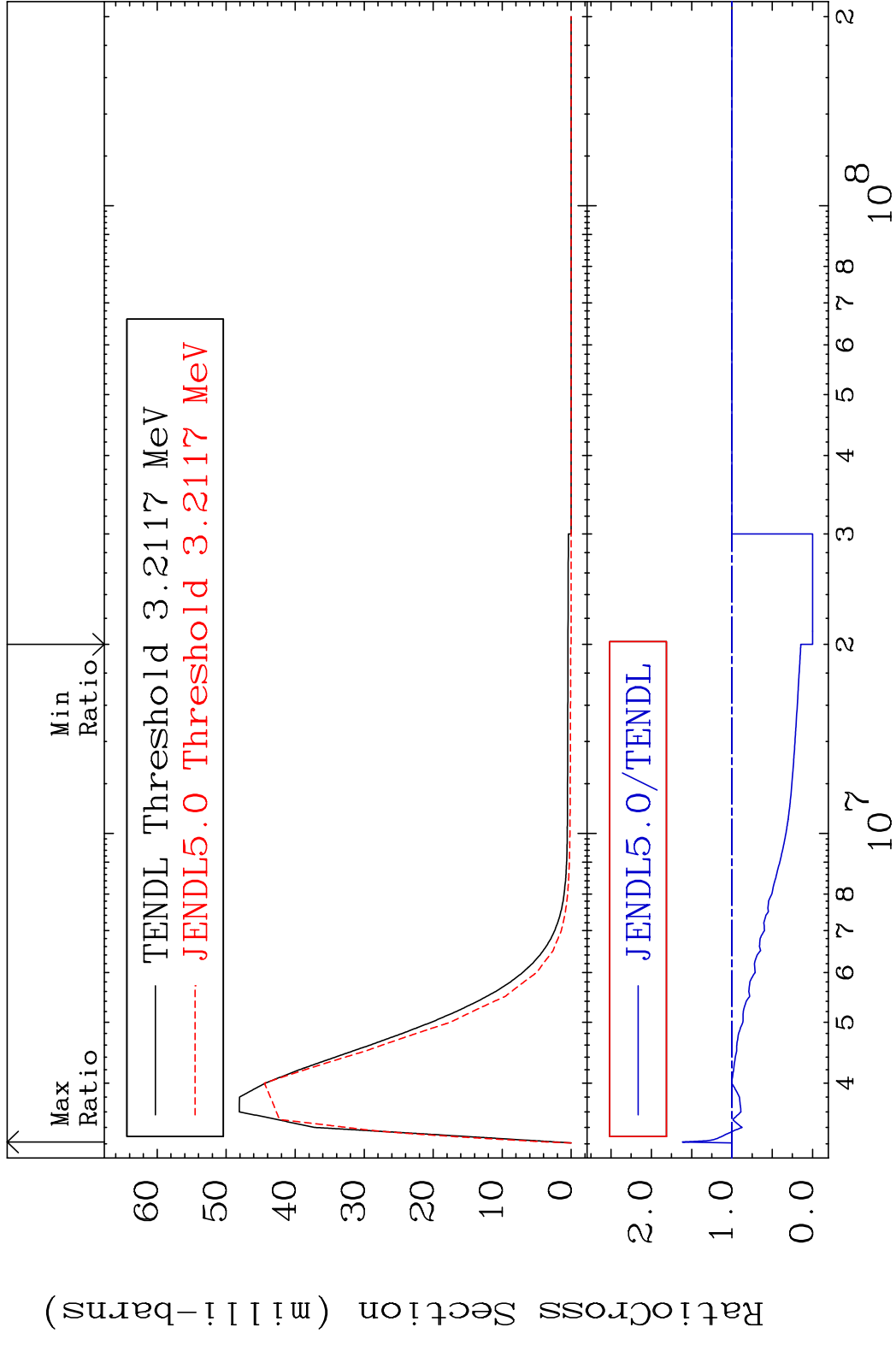
MAT 5037 MT= 76 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 9999. %



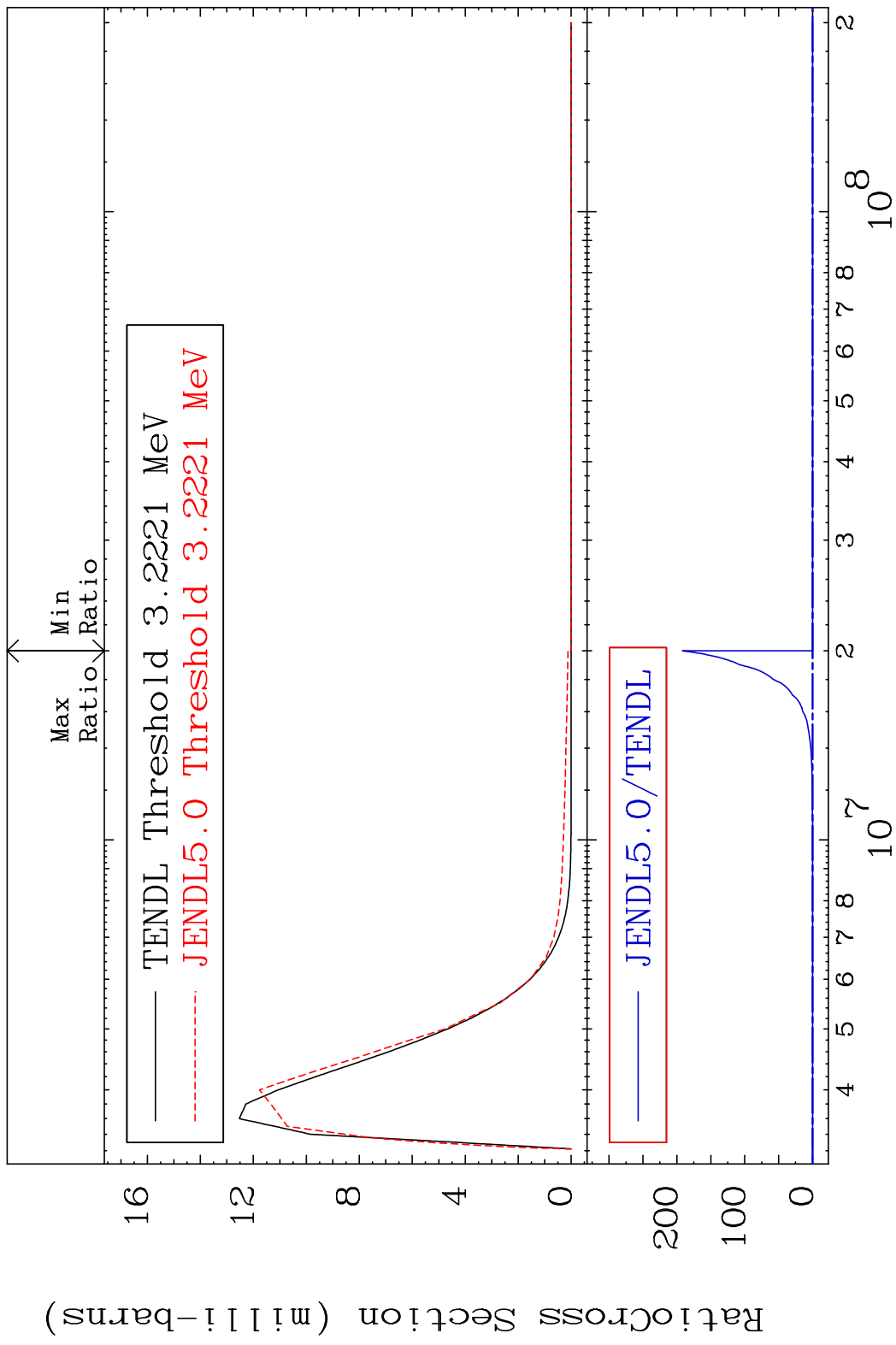
MAT 5037 MT= 77 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 9999. %



MAT 5037 MT= 78 (n,n') Level 50-Sn-116
 Cross Section -100.0 To 61.51 %



MAT 5037 MT= 79 (n, n') Level 50-Sn-116
 Cross Section -100.0 To 9999. %

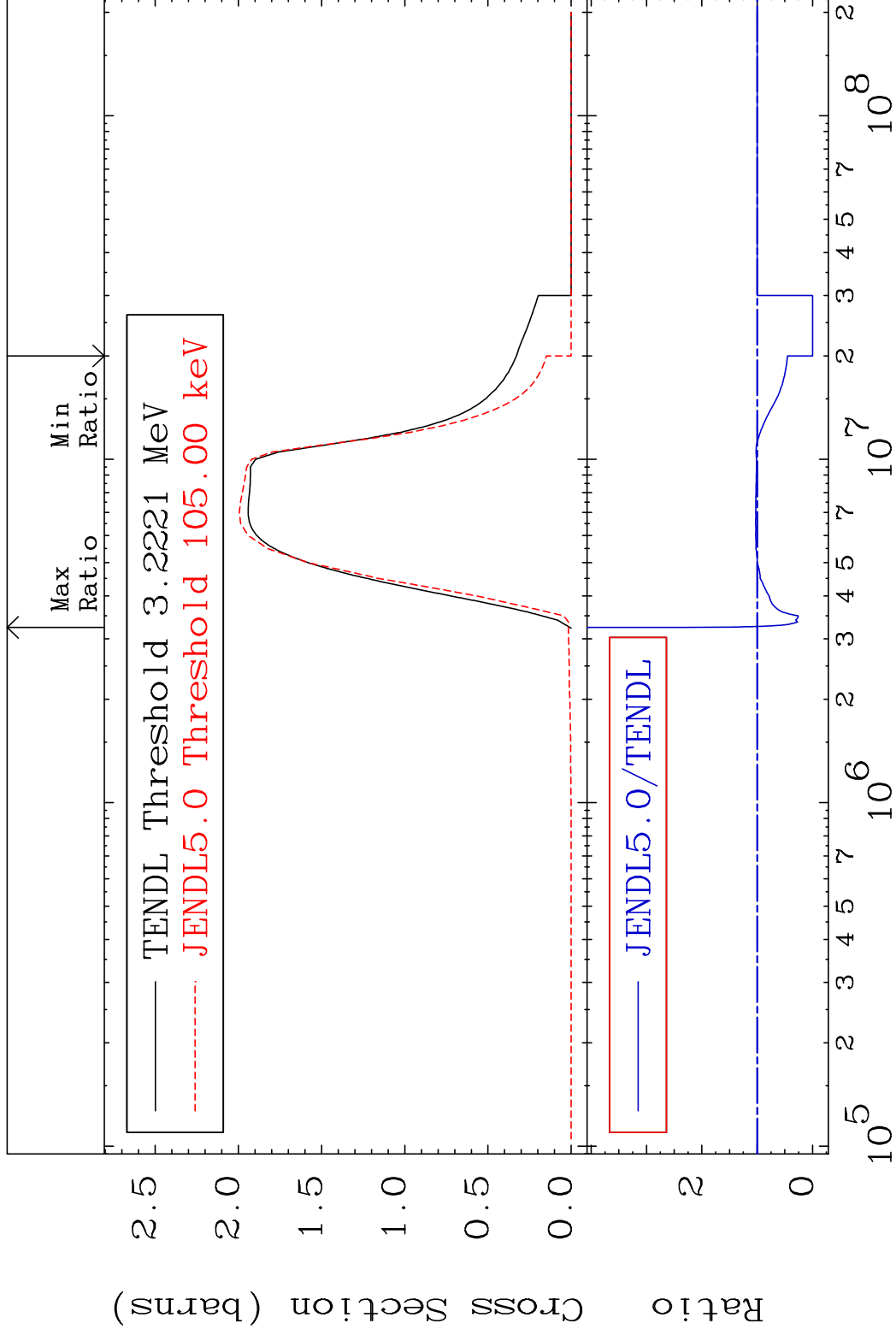


MAT 5037

(n,n') Continuum

50-Sn-116

Cross Section -100.0 To 135.2 %



38

Incident Energy (eV)

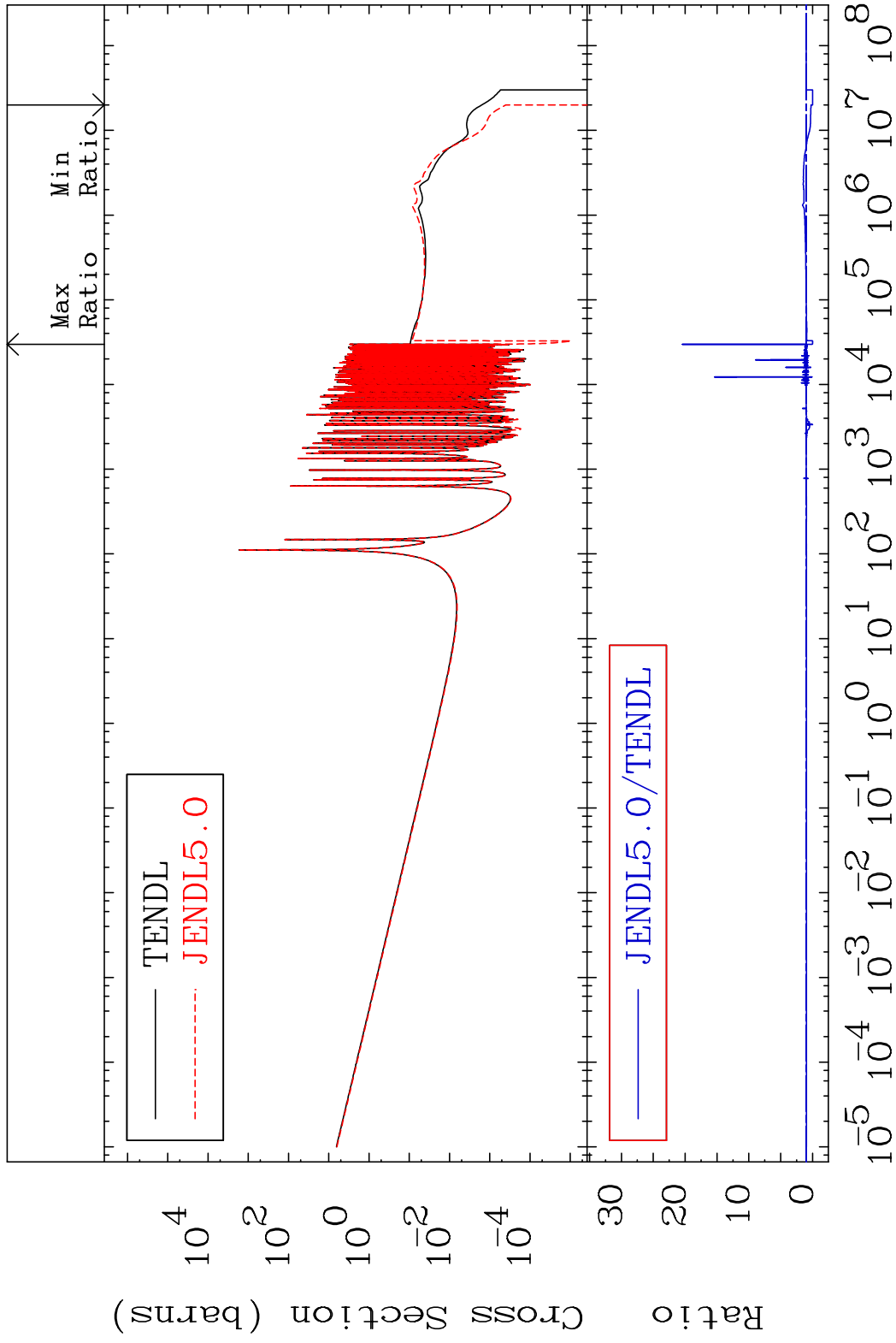
50-Sn-116

MAT 5037

(n, γ)

50-Sn-116

Cross Section -100.0 To 1944. %



39

Incident Energy (eV)

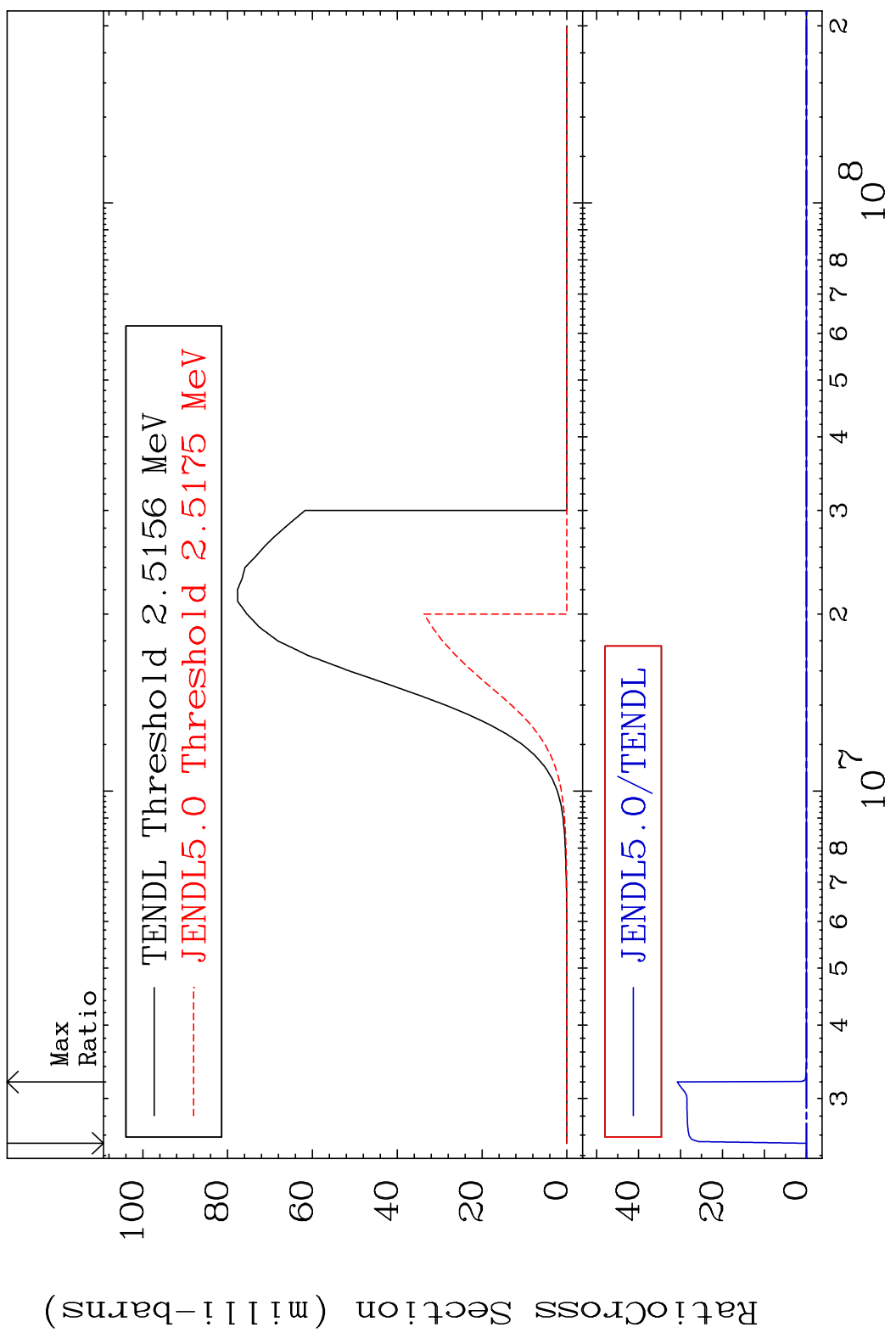
50-Sn-116

MAT 5037

(n,p)

50-Sn-116

Cross Section -100.0 To 9999. %

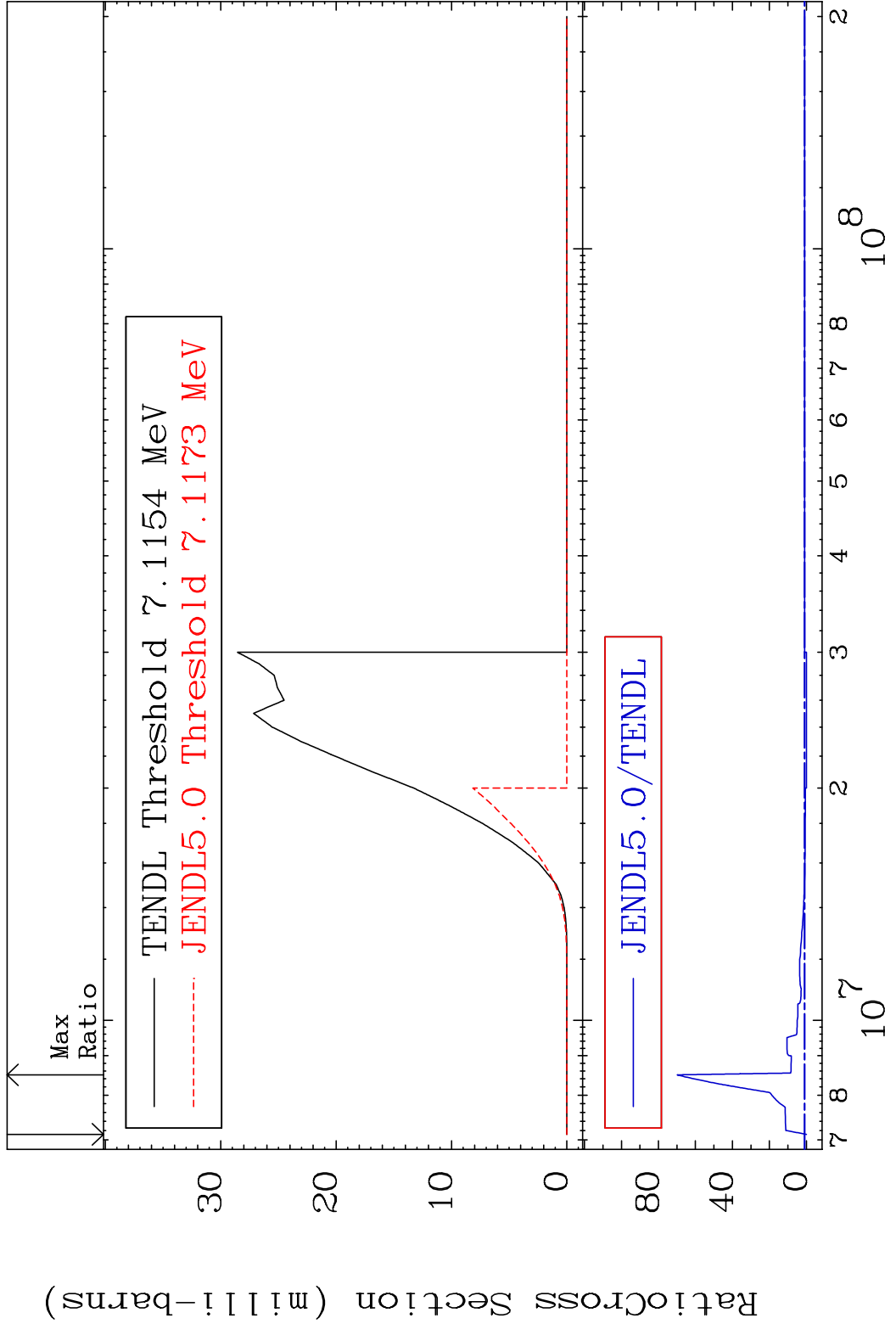


40

Incident Energy (eV)

50-Sn-116

MAT 5037 (n,d) 50-Sn-116
 Cross Section -100.0 To 6887. %



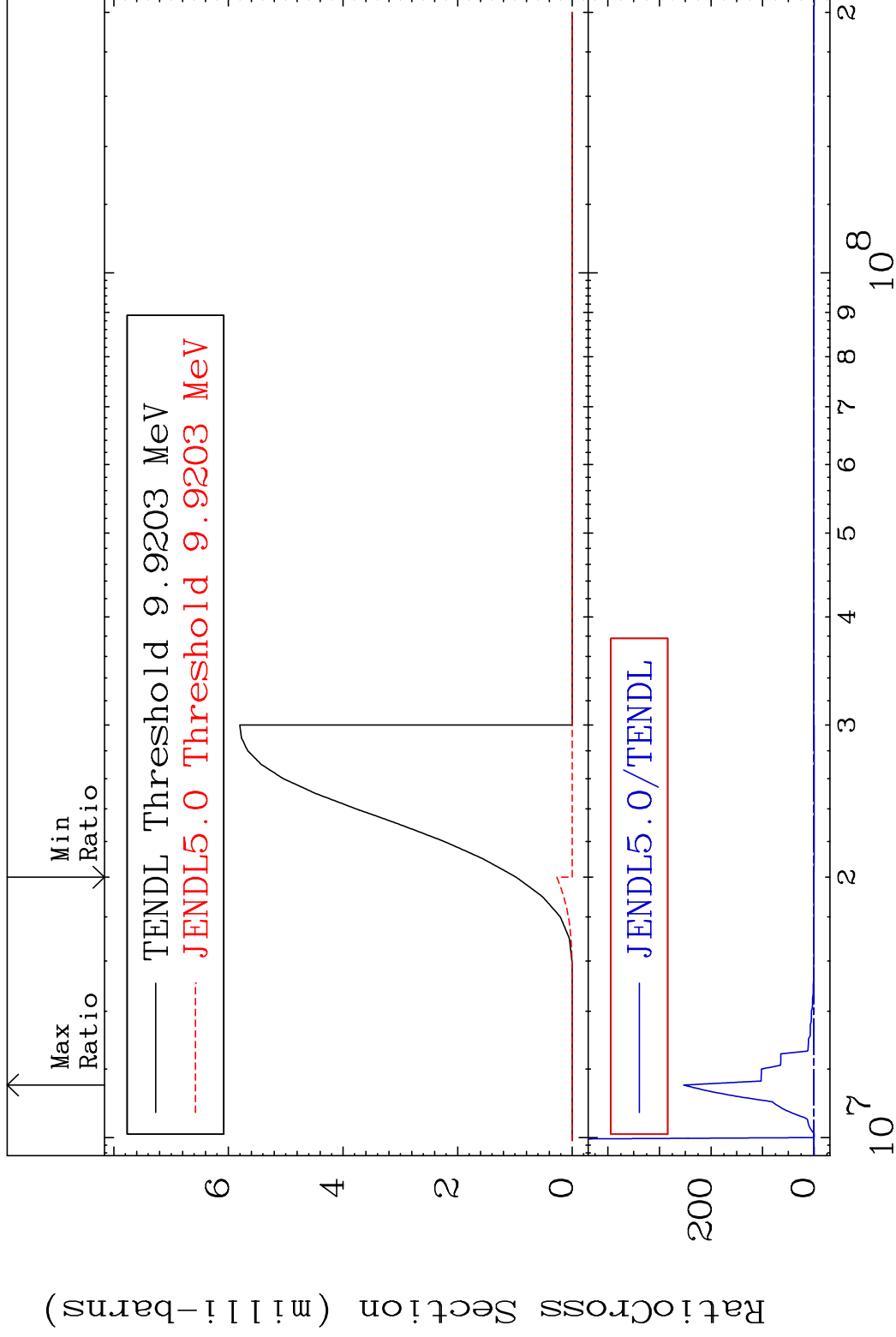
41 Incident Energy (eV) 50-Sn-116

MAT 5037

(n, t)

50-Sn-116

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

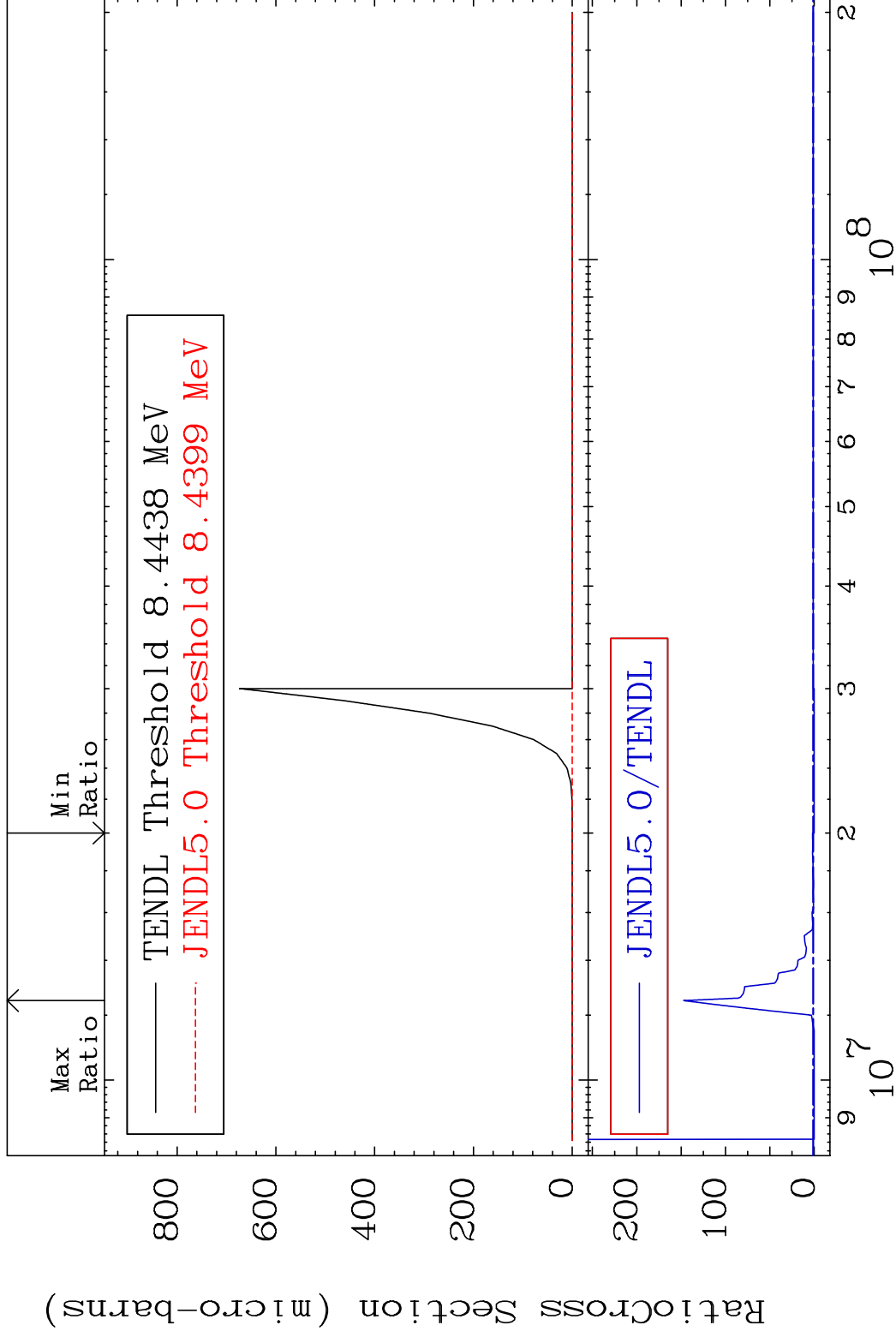
50-Sn-116

MAT 5037

(n, He-3)

50-Sn-116

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

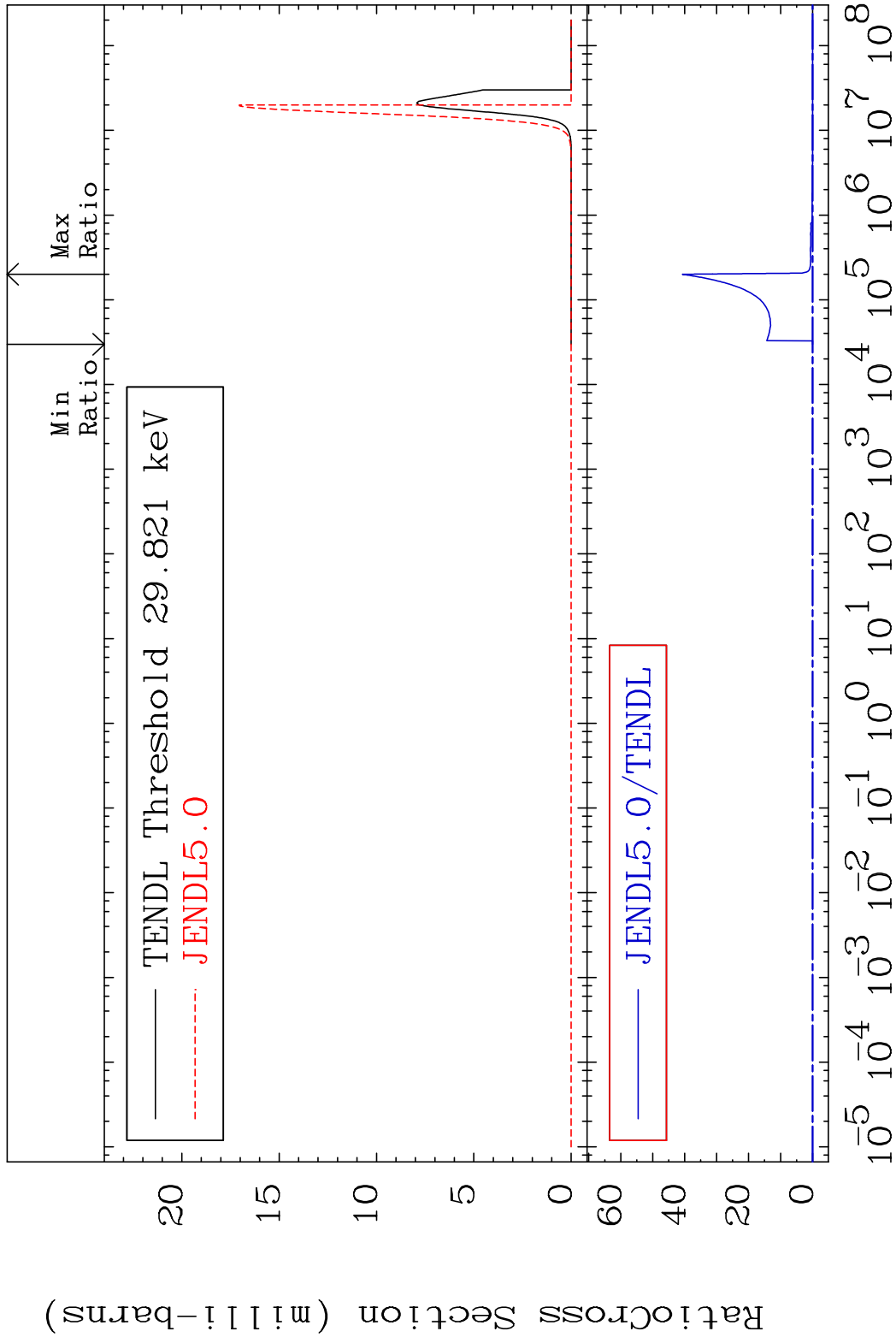
50-Sn-116

MAT 5037

(n, α)

50-Sn-116

Cross Section -100.0 To 9999. %

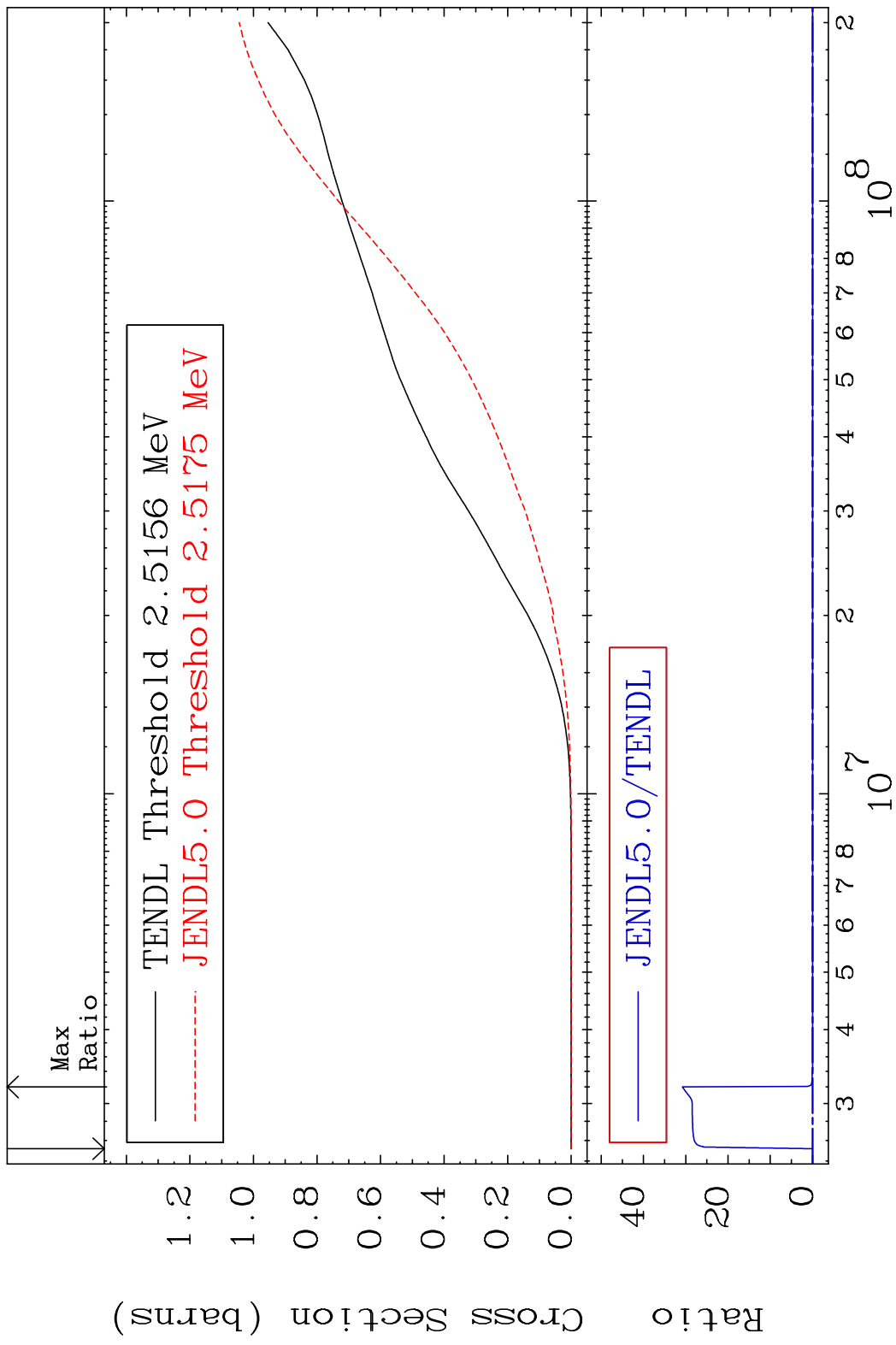


44

Incident Energy (eV)

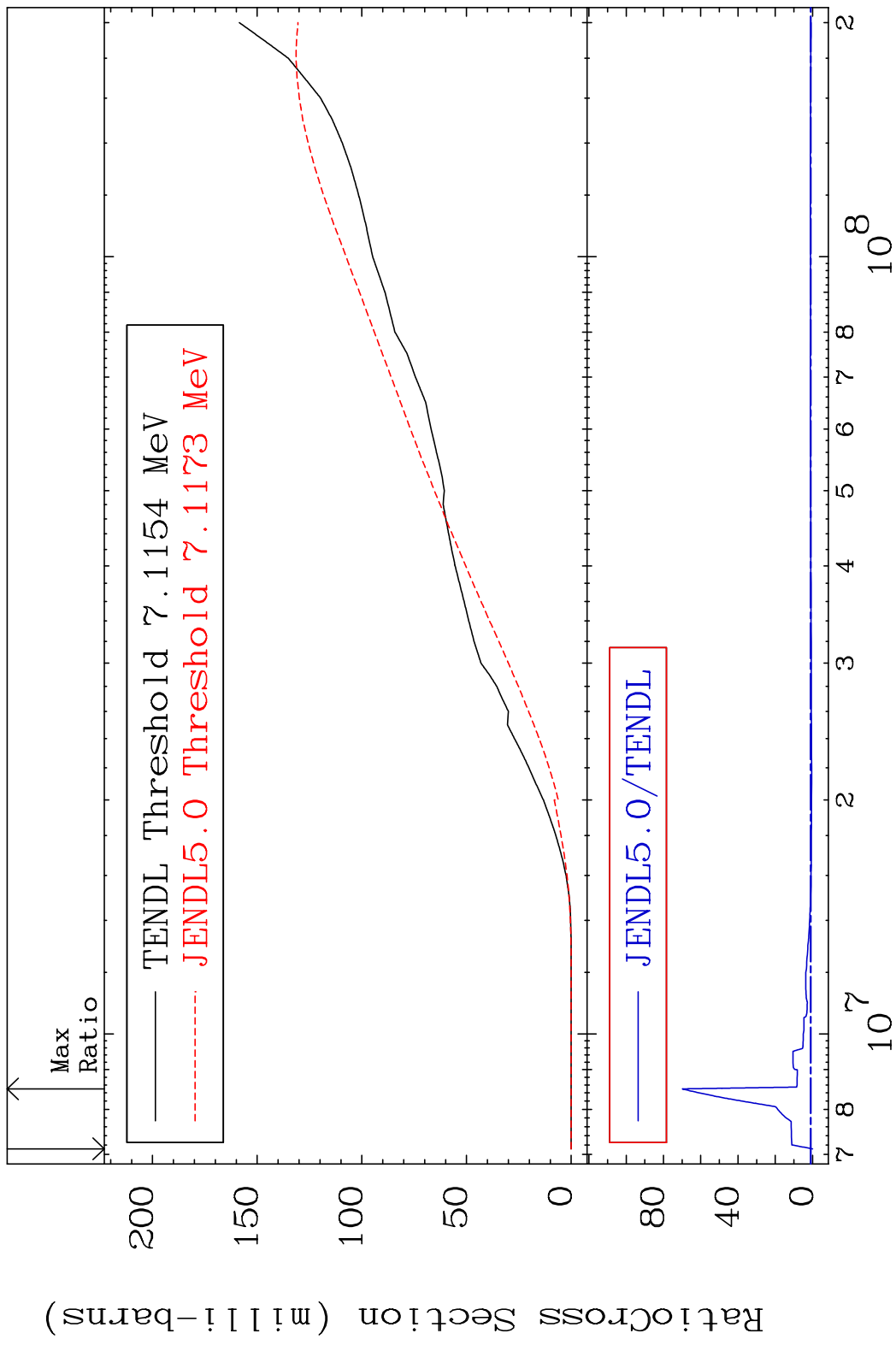
50-Sn-116

MAT 5037 Hydrogen Production 50-Sn-116
 Cross Section -100.0 To 9999. %



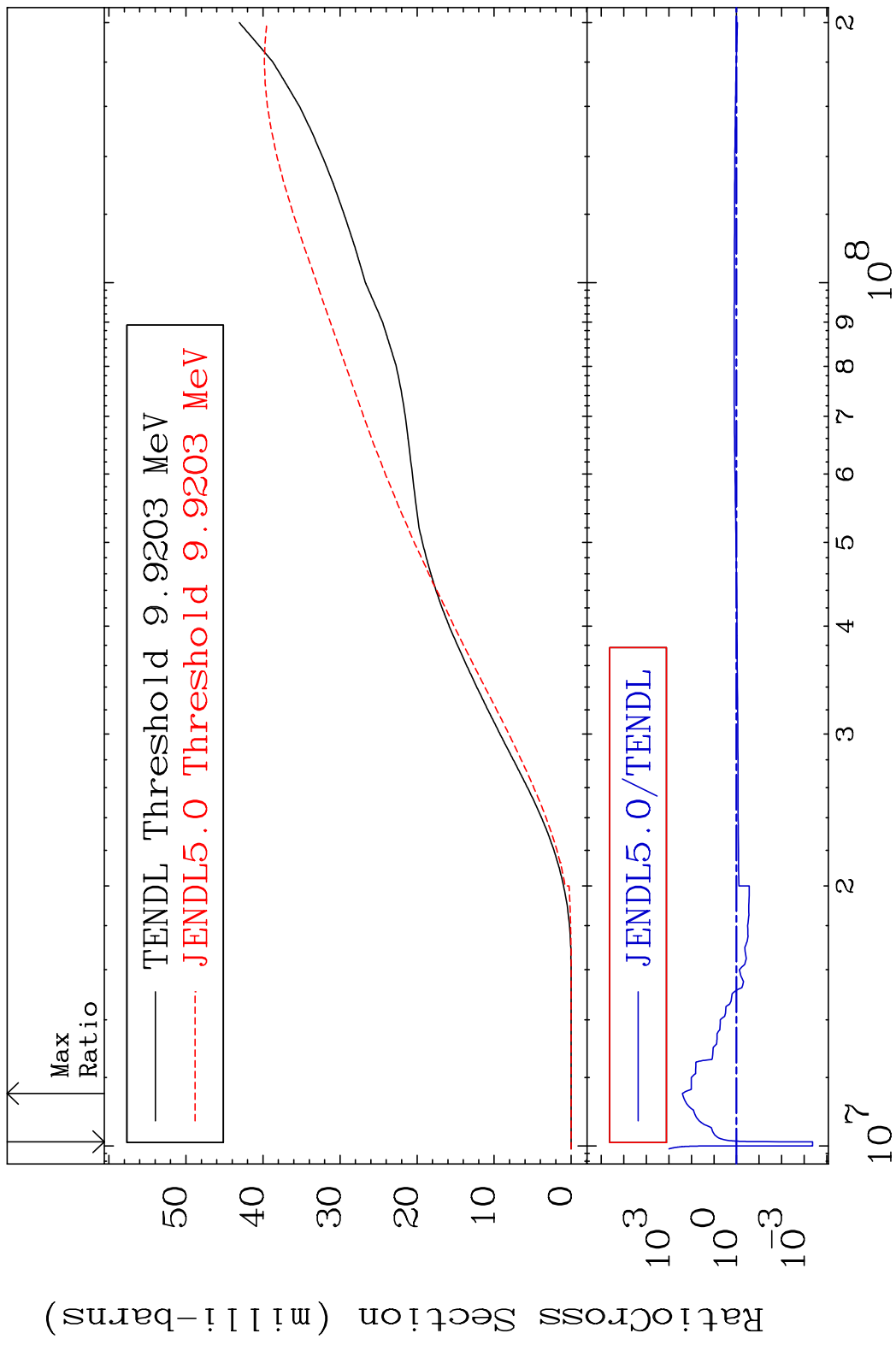
45 Incident Energy (eV) 50-Sn-116

MAT 5037 Deuterium Production 50-Sn-116
 Cross Section -100.0 To 6887. %



46 50-Sn-116

MAT 5037 Tritium Production 50-Sn-116
 Cross Section -99.96 To 9999. %



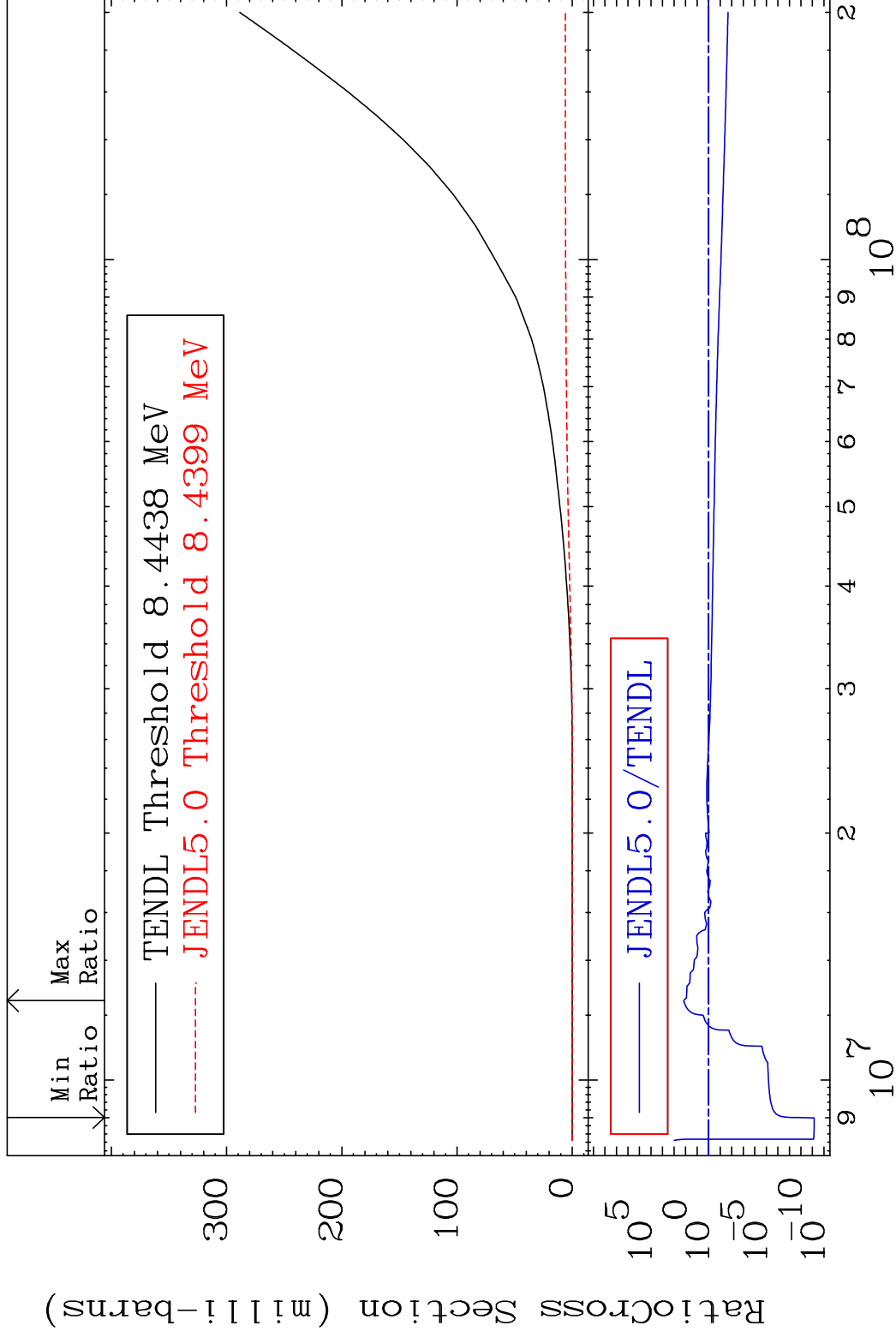
47 Incident Energy (eV) 50-Sn-116

MAT 5037

He-3 Production

50-Sn-116

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

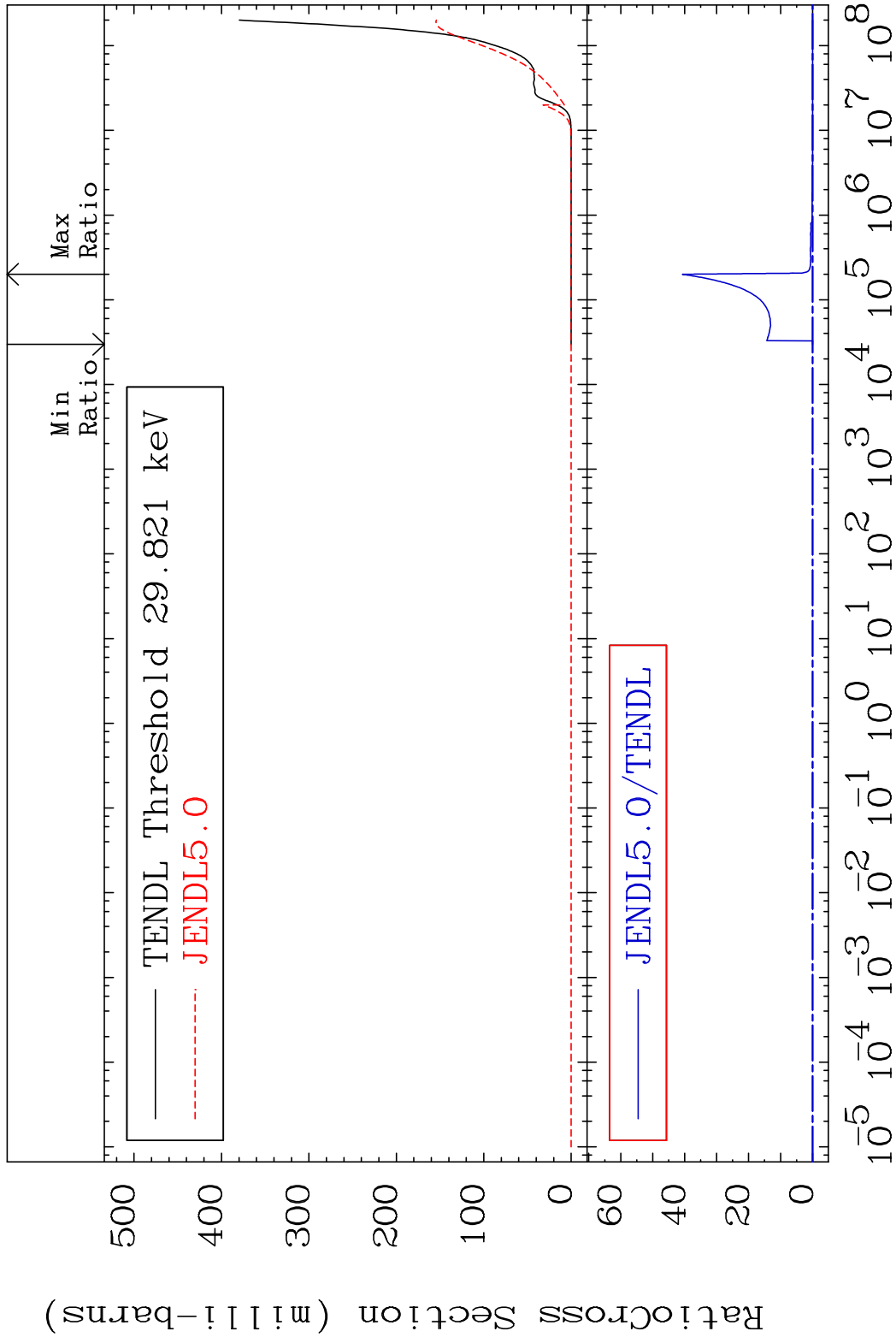
50-Sn-116

MAT 5037

He-4 Production

50-Sn-116

Cross Section -100.0 To 9999. %

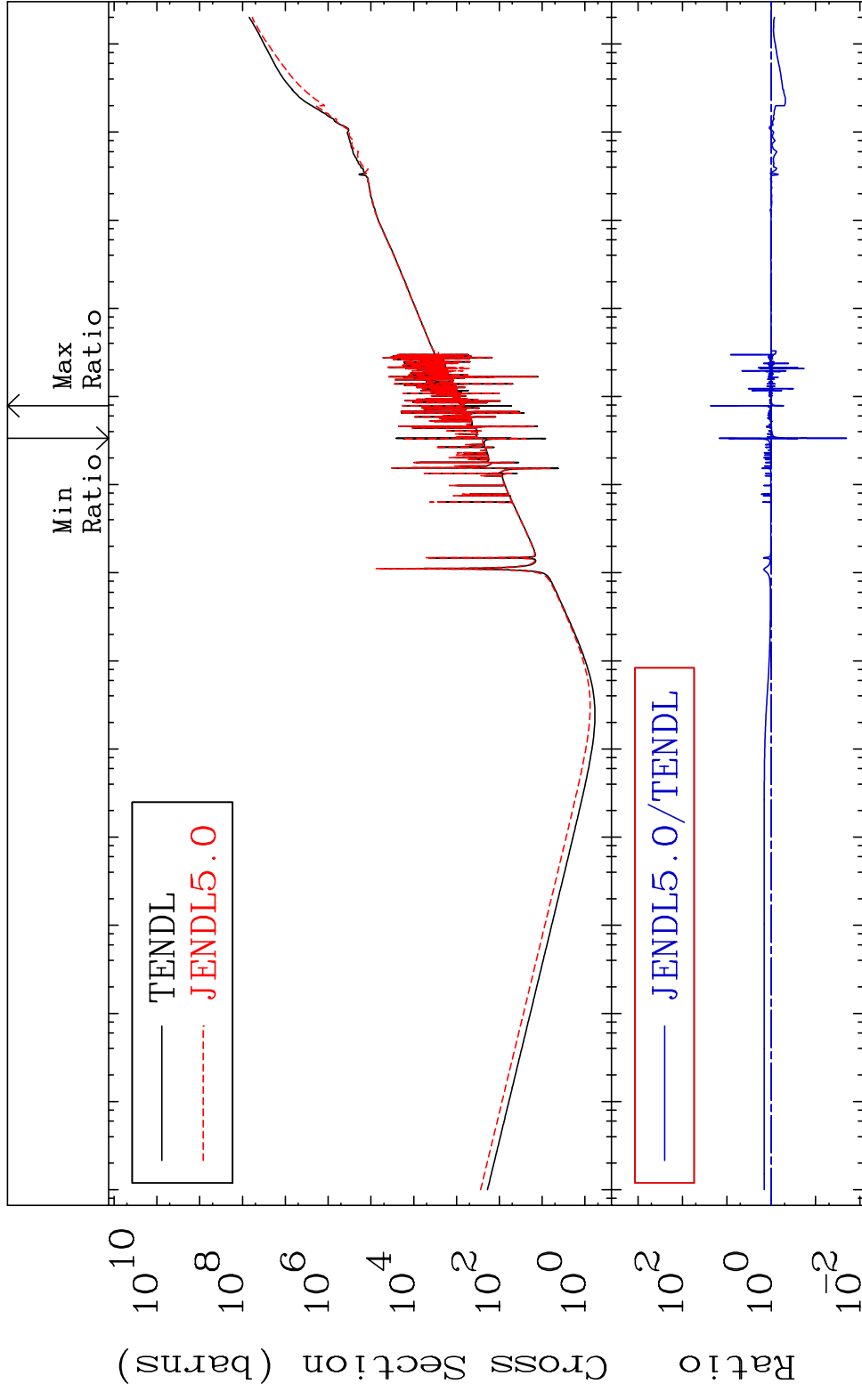


MAT 5037

Kerma total (eV-barns)

50-Sn-116

Cross Section -97.97 To 2205. %



50

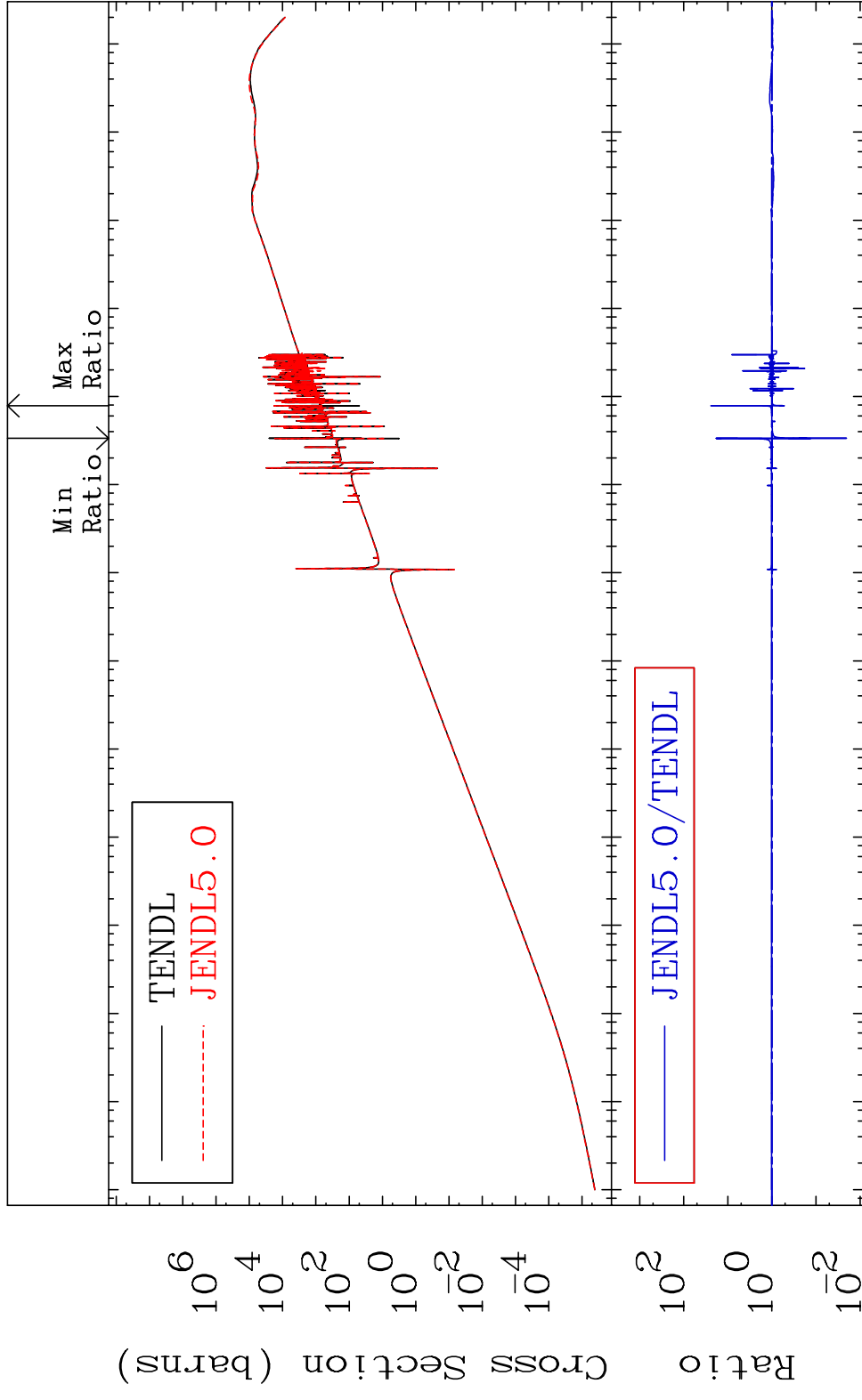
Incident Energy (eV)

50-Sn-116

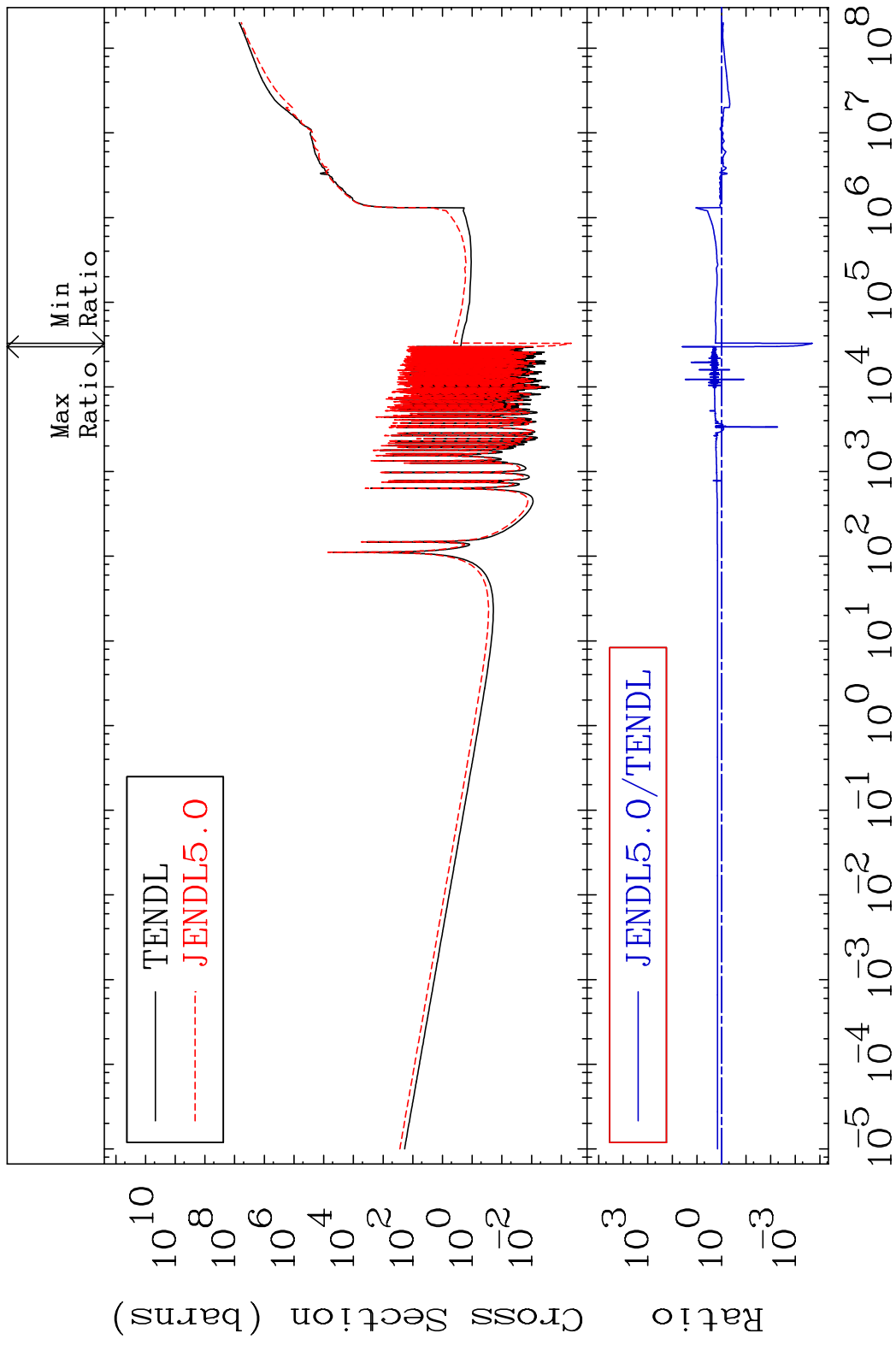
MAT 5037

Kerma elastic
Cross Section

50-Sn-116
-97.95 To 2342. %



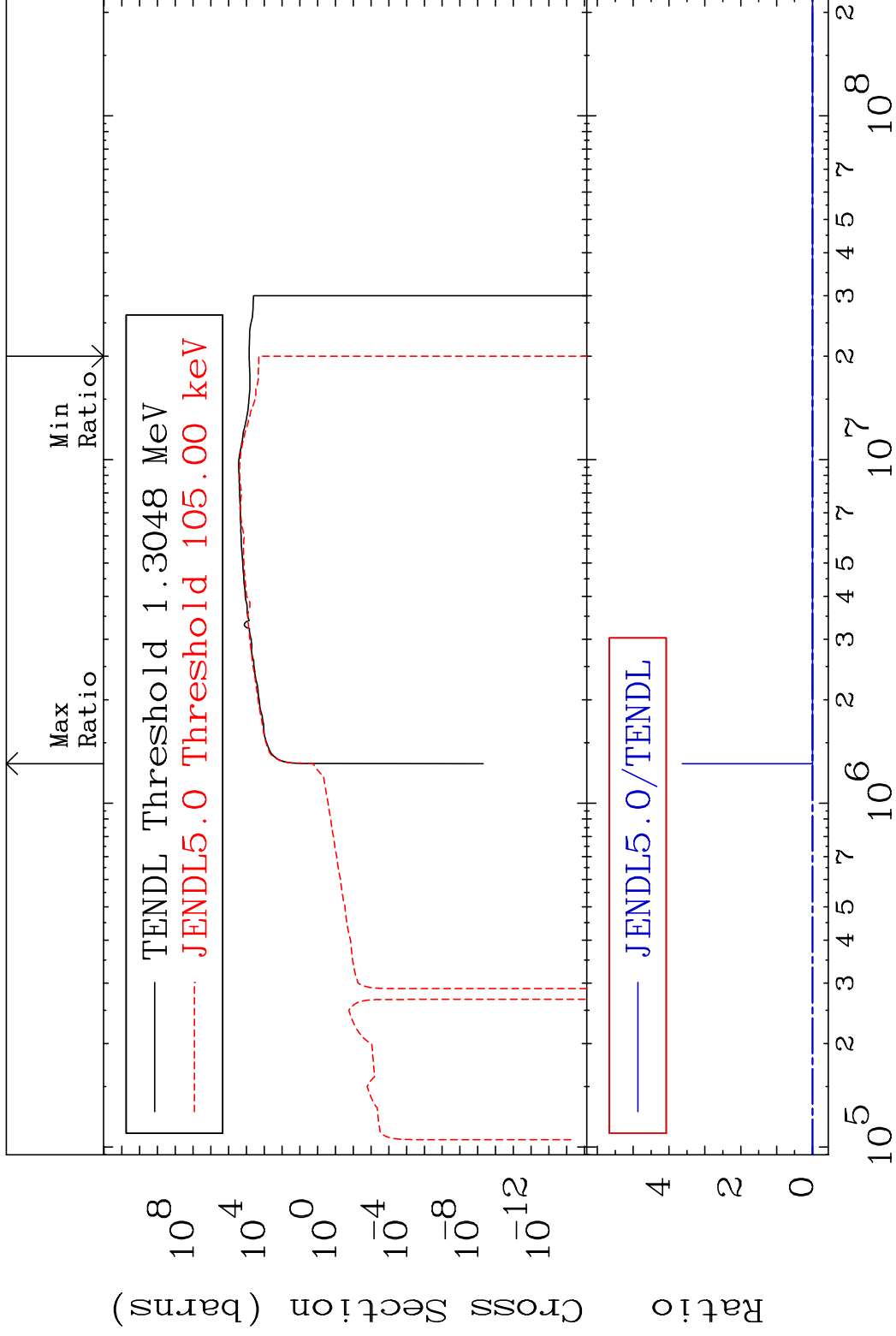
MAT 5037 Kerma non-elastic (all but mt2) 50-Sn-116
 Cross Section -99.98 To 3821. %



MAT 5037

Kerma inelastic (mt51-91) 50-Sn-116

Cross Section -100.0 To 9999. %

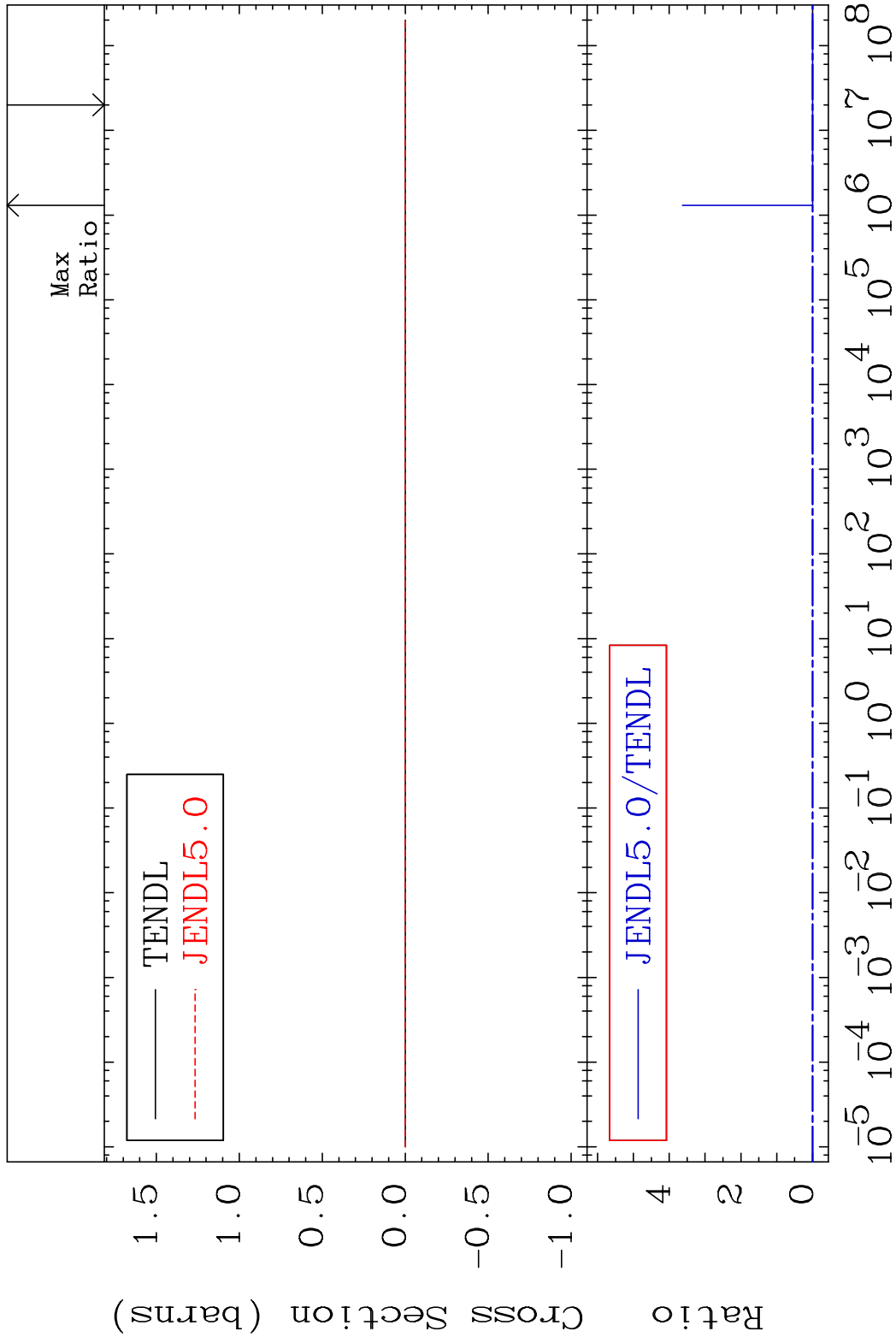


53

Incident Energy (eV)

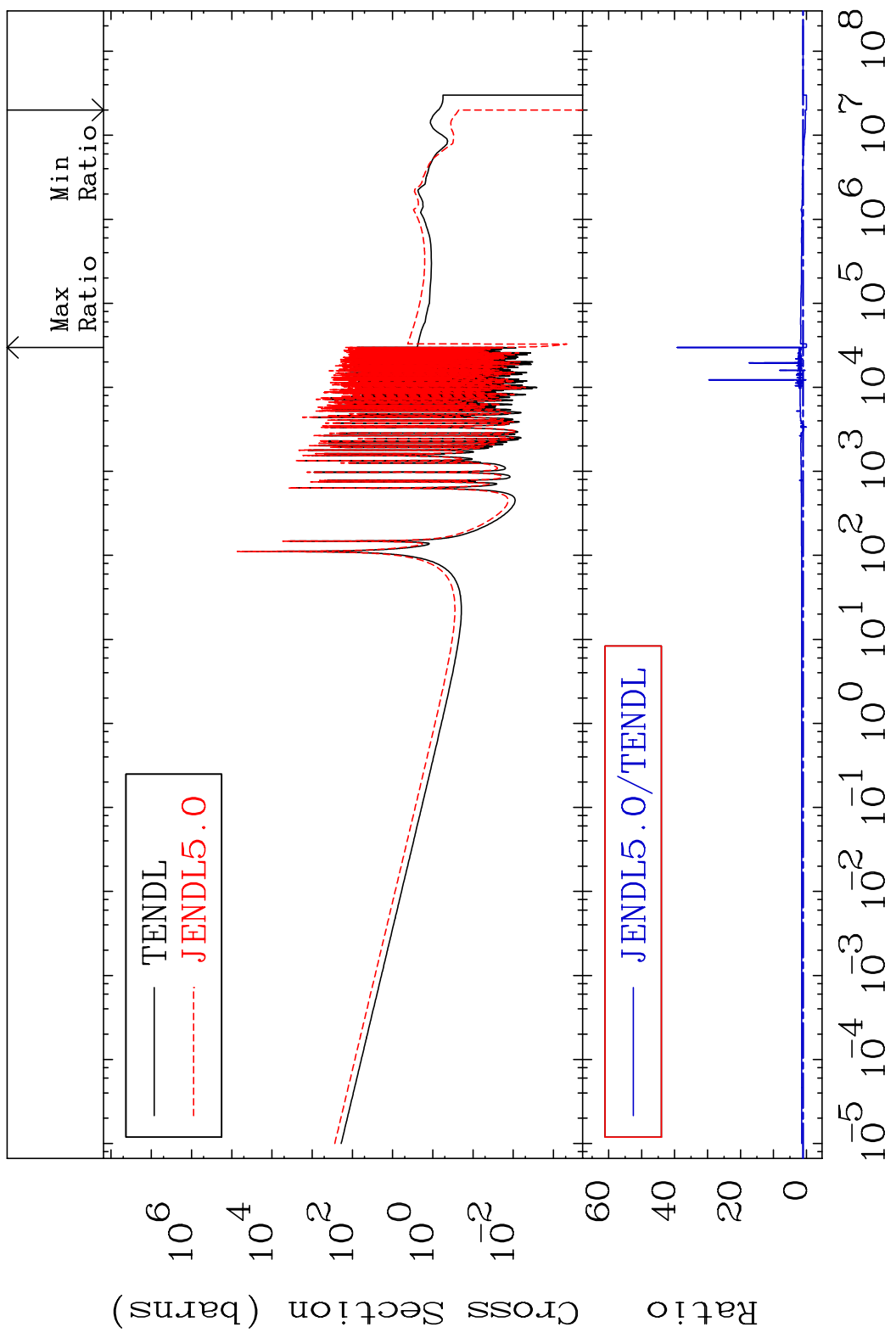
50-Sn-116

MAT 5037 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-116
 Cross Section -100.0 To 9999. %



MAT 5037

Kerma capture (mt102) 50-Sn-116
Cross Section -100.0 To 3821. %



55

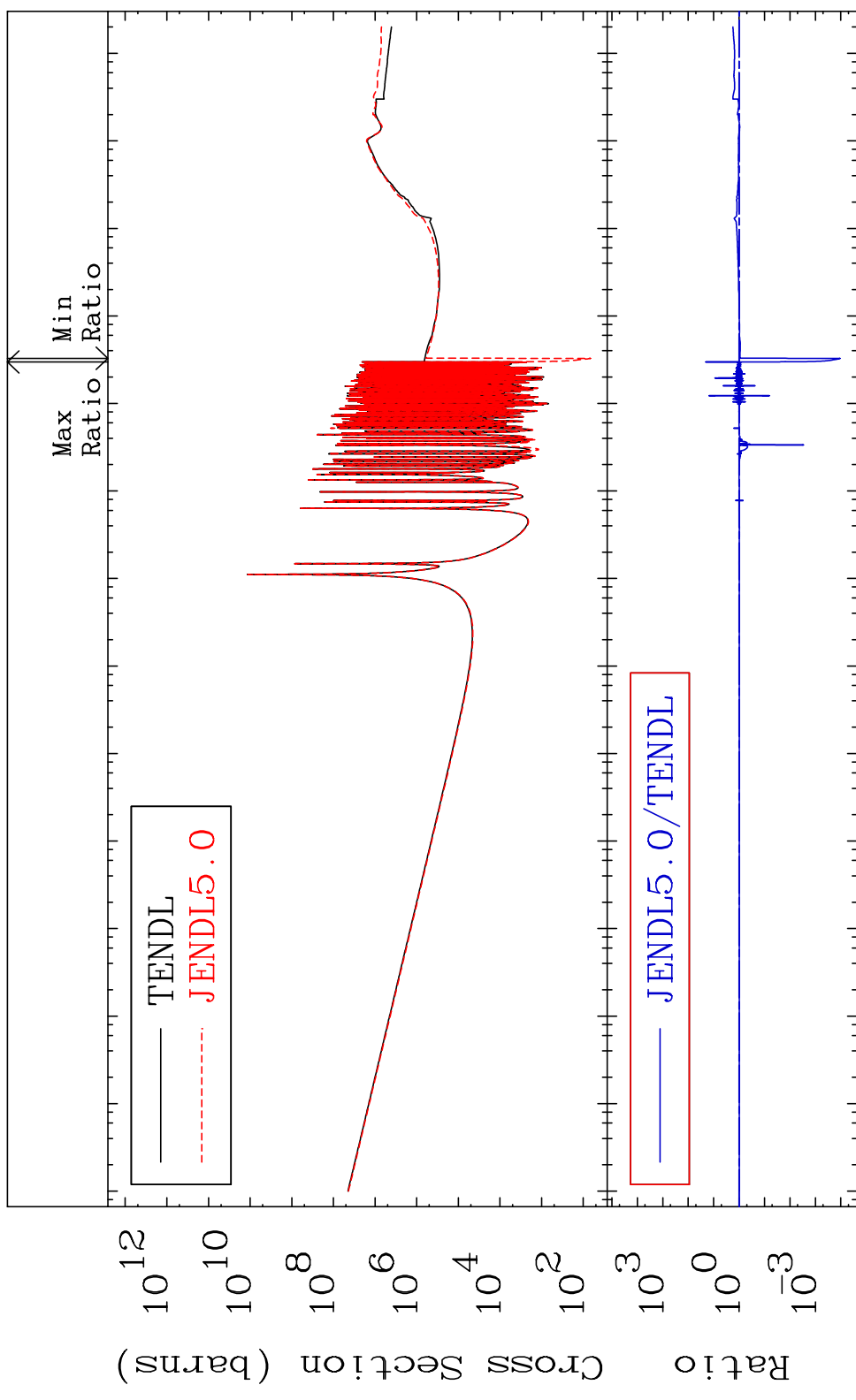
Incident Energy (eV) 50-Sn-116

MAT 5037

Total photon (eV-barns)

50-Sn-116

Cross Section -99.99 To 1941. %



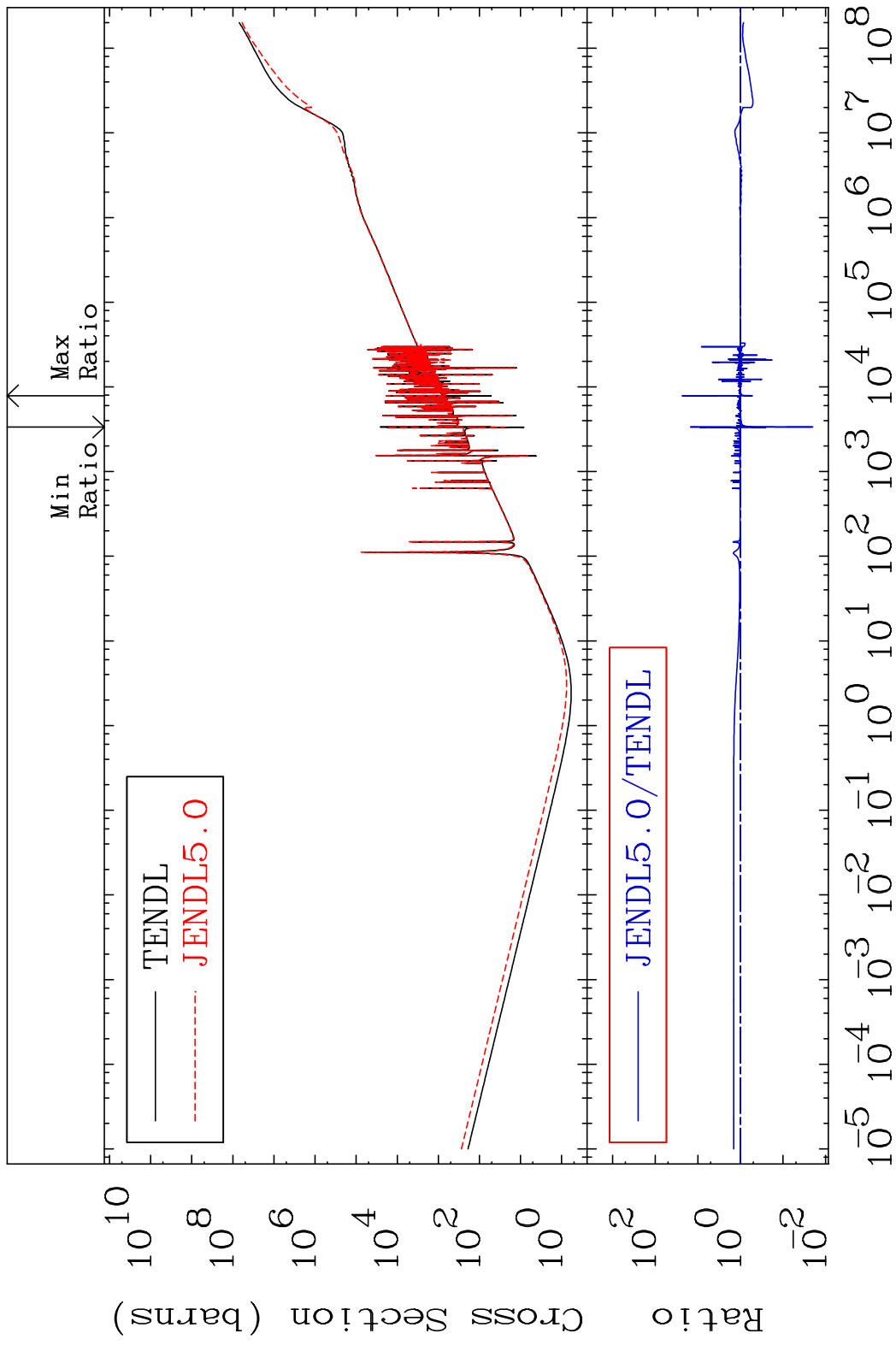
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

56

Incident Energy (eV)

50-Sn-116

MAT 5037 Total kinematic kerma (high limit) 50-Sn-116
 Cross Section -97.97 To 2205. %

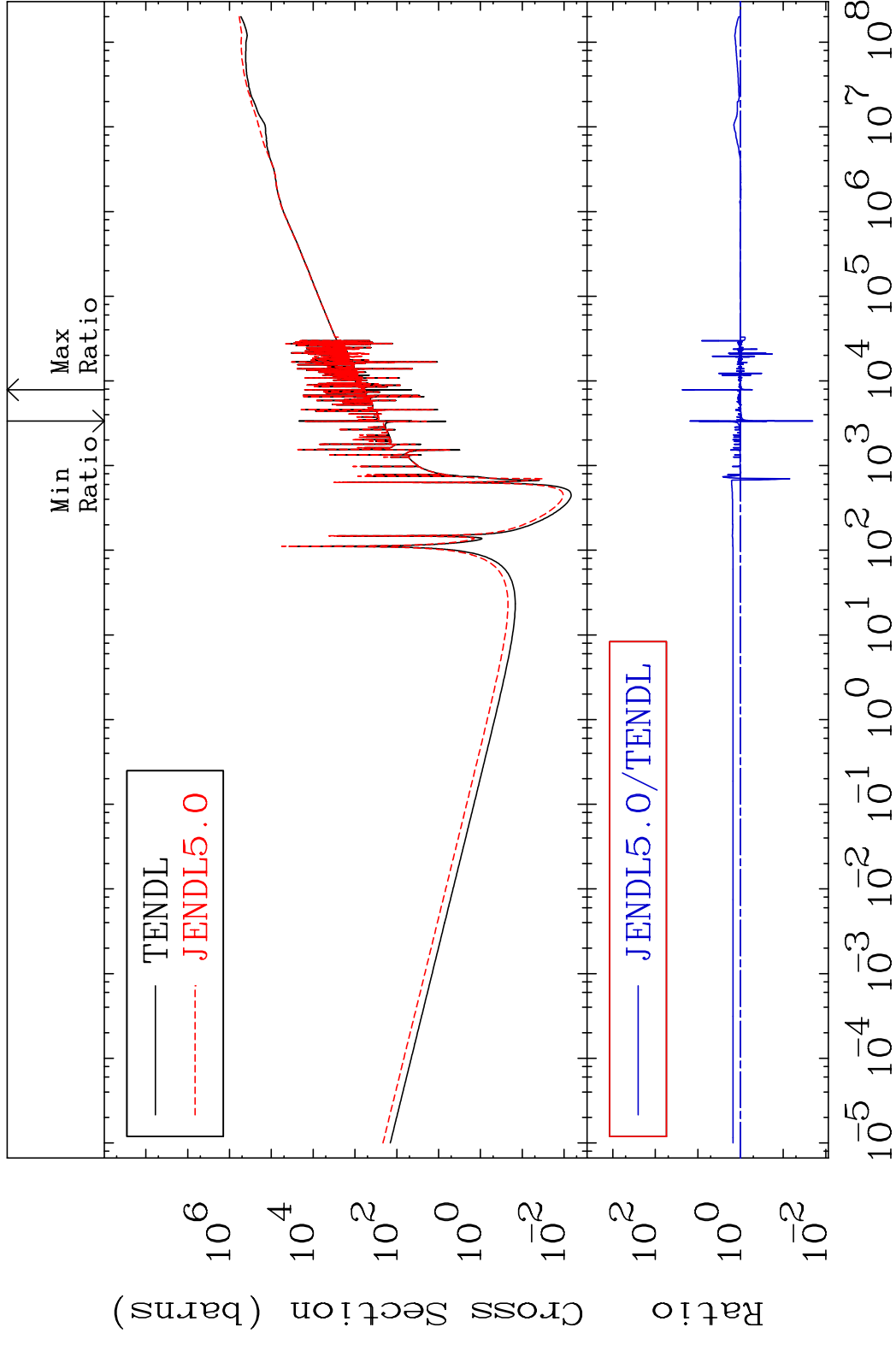


MAT 5037

Dpa total (eV-barns)

50-Sn-116

Cross Section -97.96 To 2222. %



58

Incident Energy (eV)

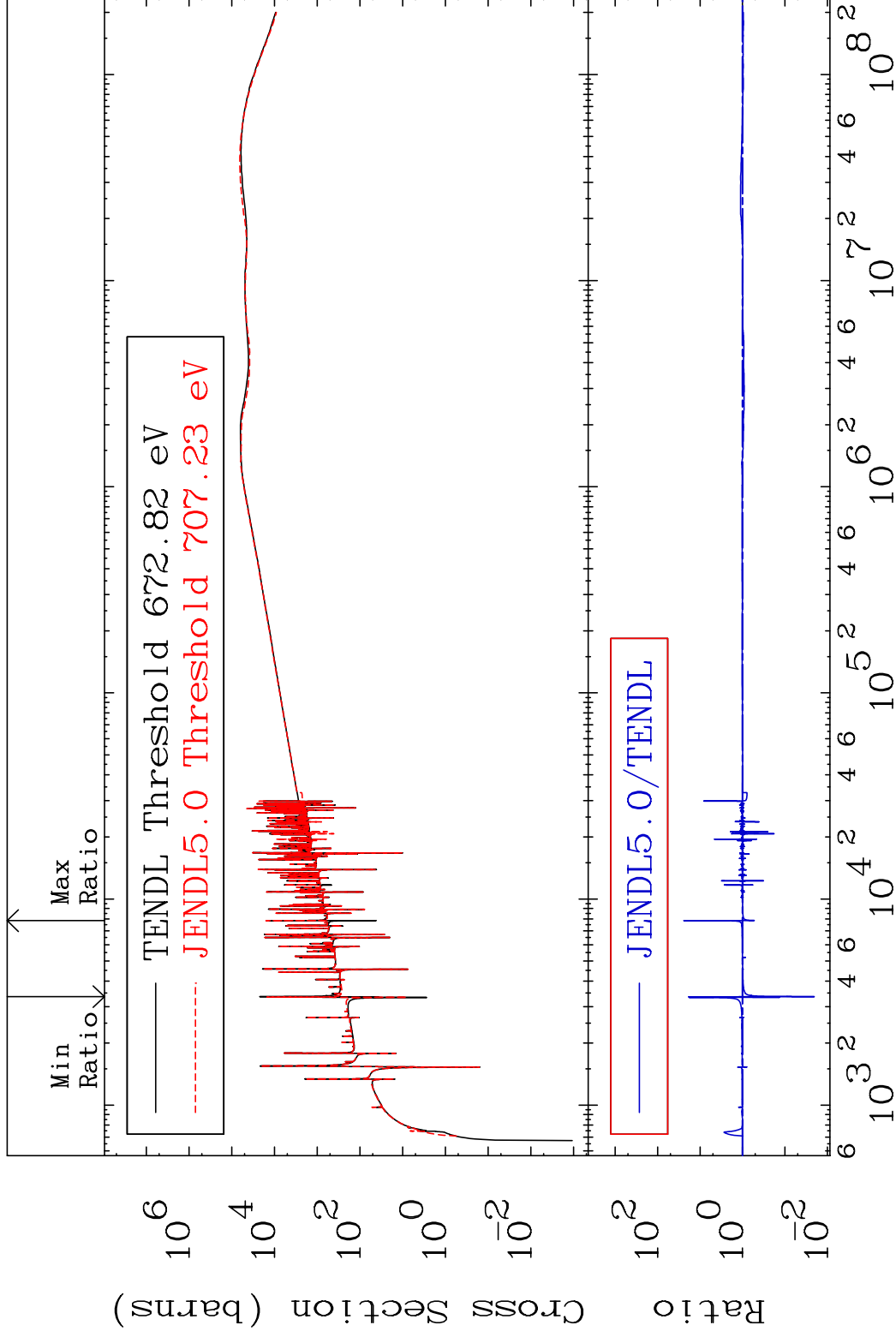
50-Sn-116

MAT 5037

Dpa elastic (mt2)

50-Sn-116

Cross Section -97.95 To 2338. %



59

Incident Energy (eV)

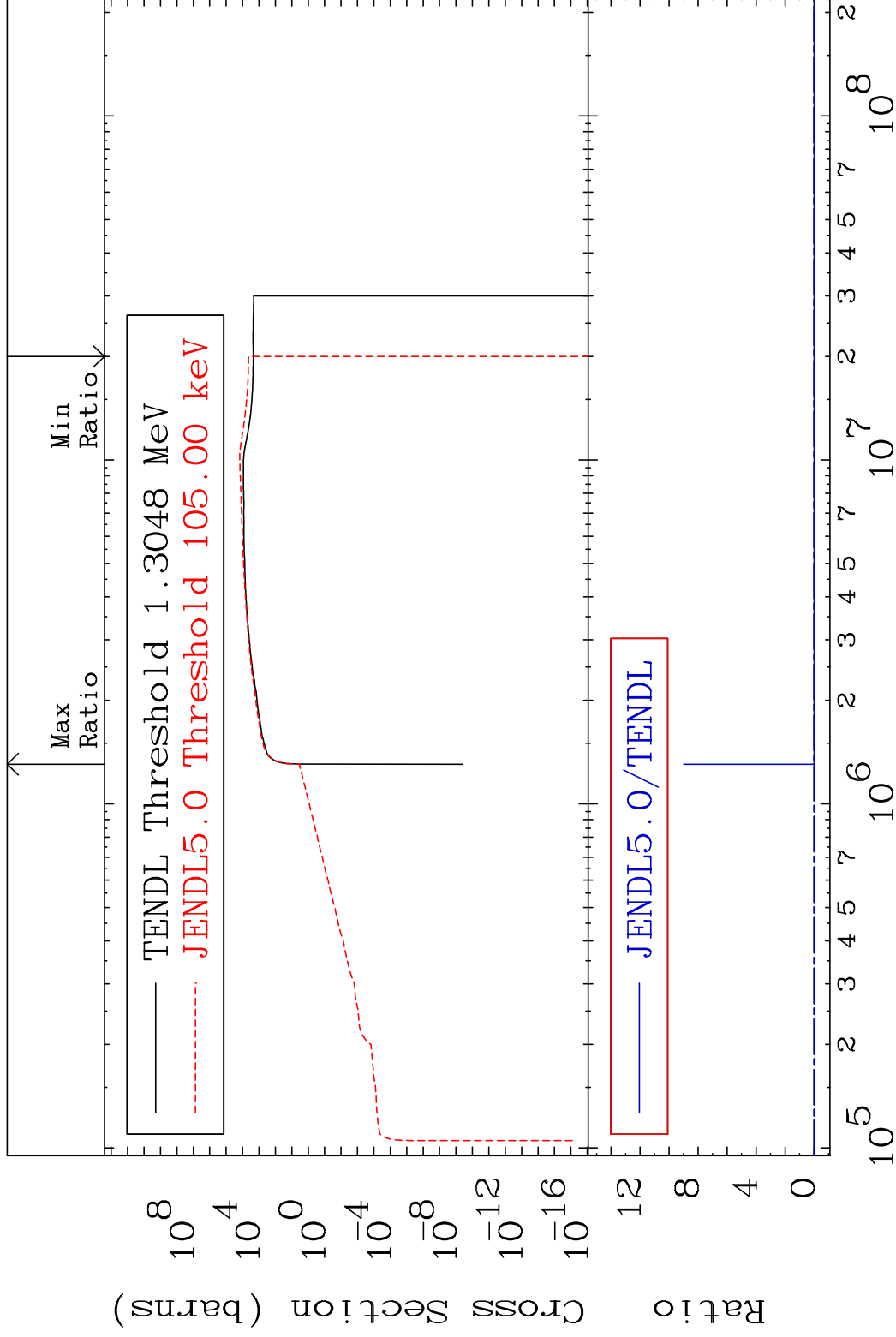
50-Sn-116

MAT 5037

Dpa inelastic (mt51-91)

50-Sn-116

Cross Section -100.0 To 9999. %

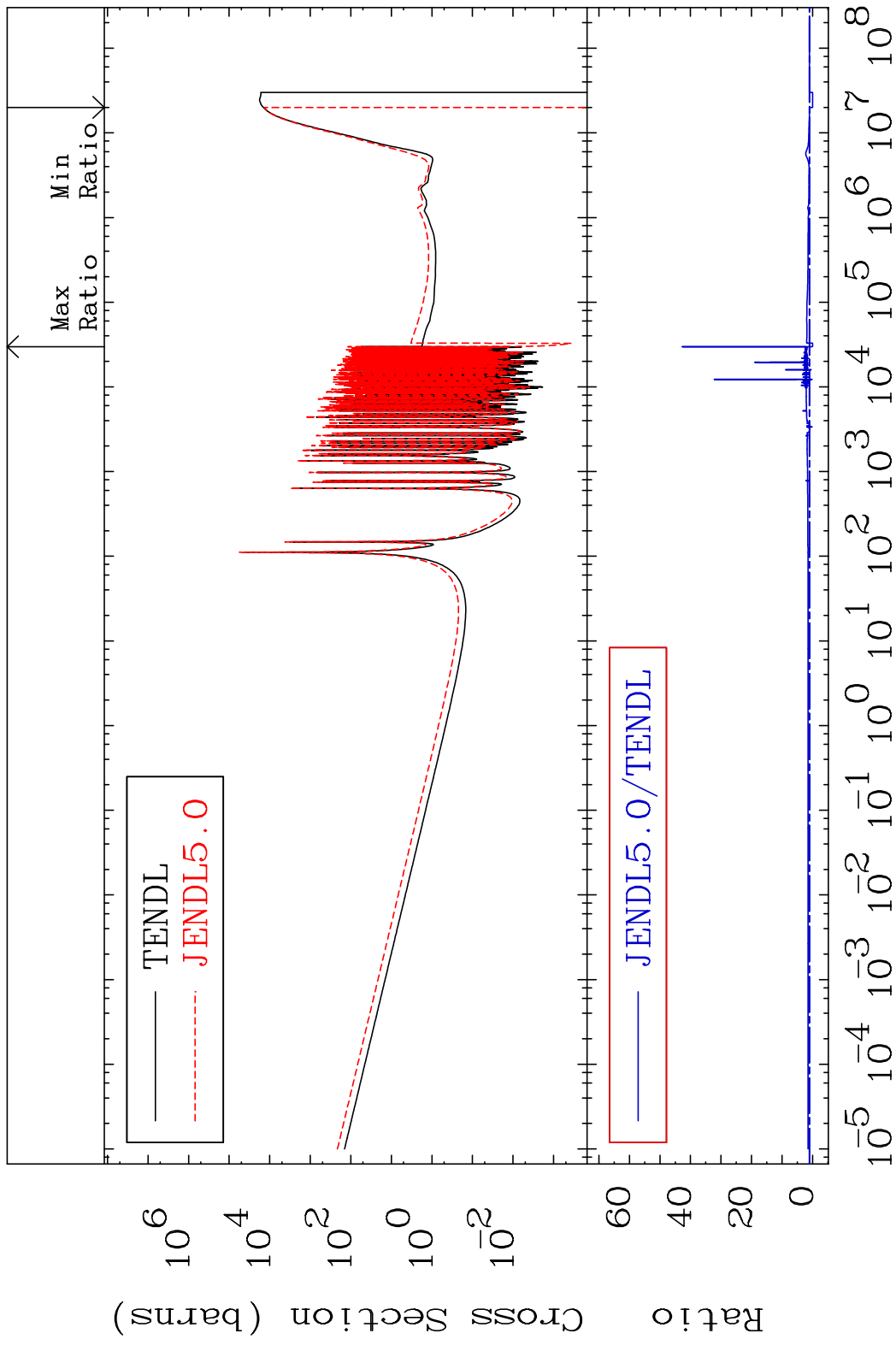


60

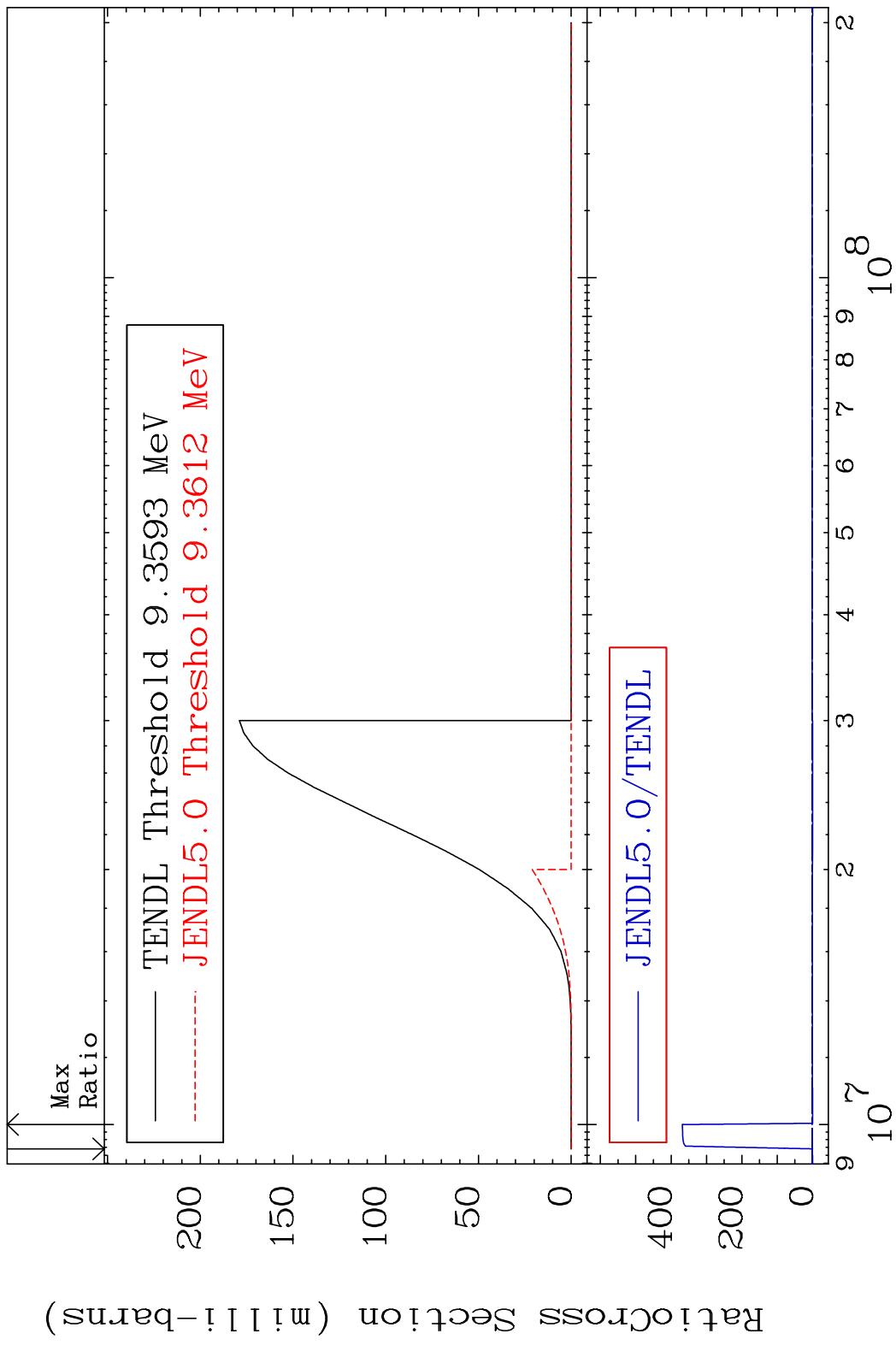
Incident Energy (eV)

50-Sn-116

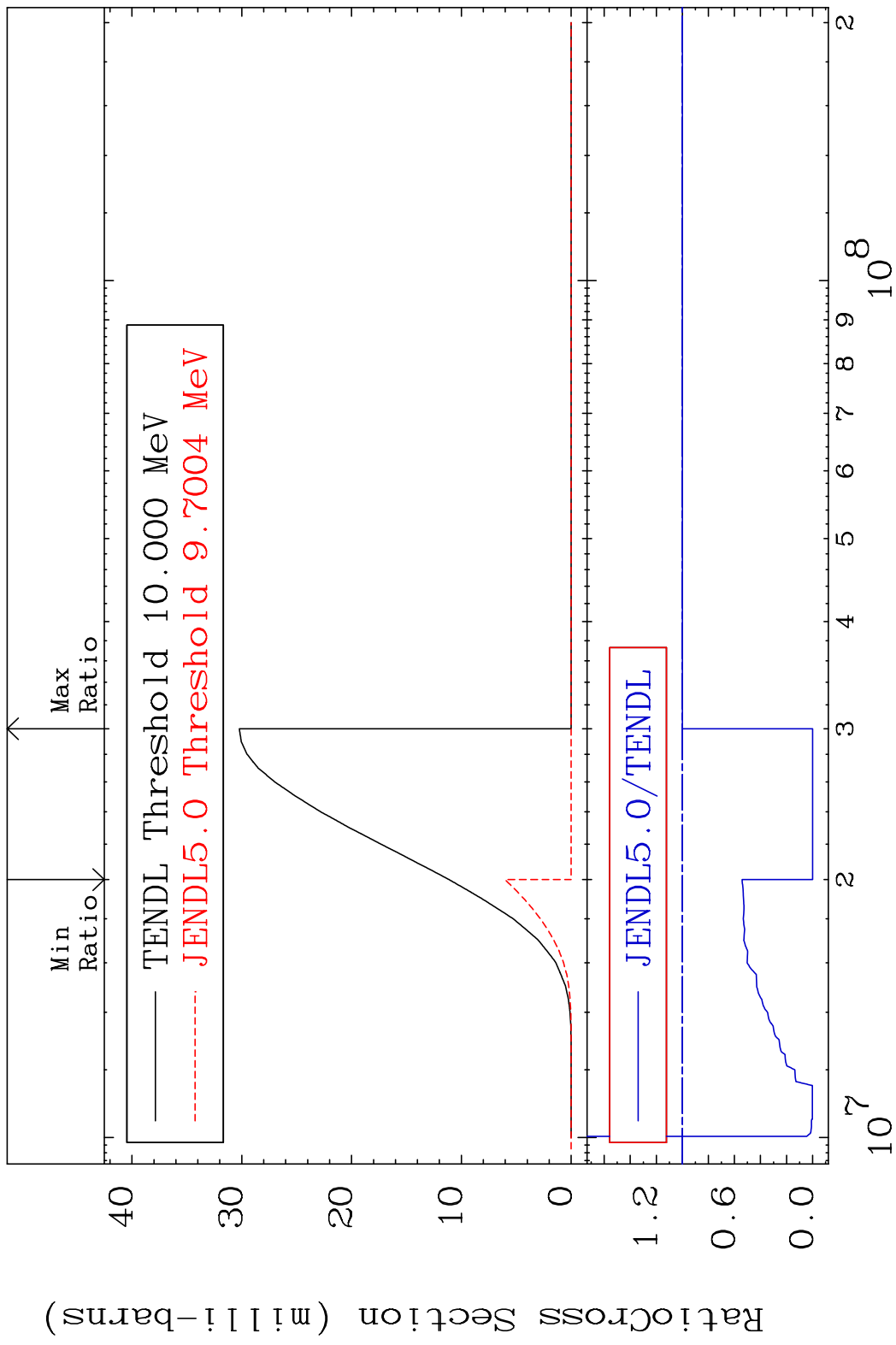
MAT 5037 Dpa disappearance (mt102 -120) 50-Sn-116
 Cross Section -100.0 To 4166. %



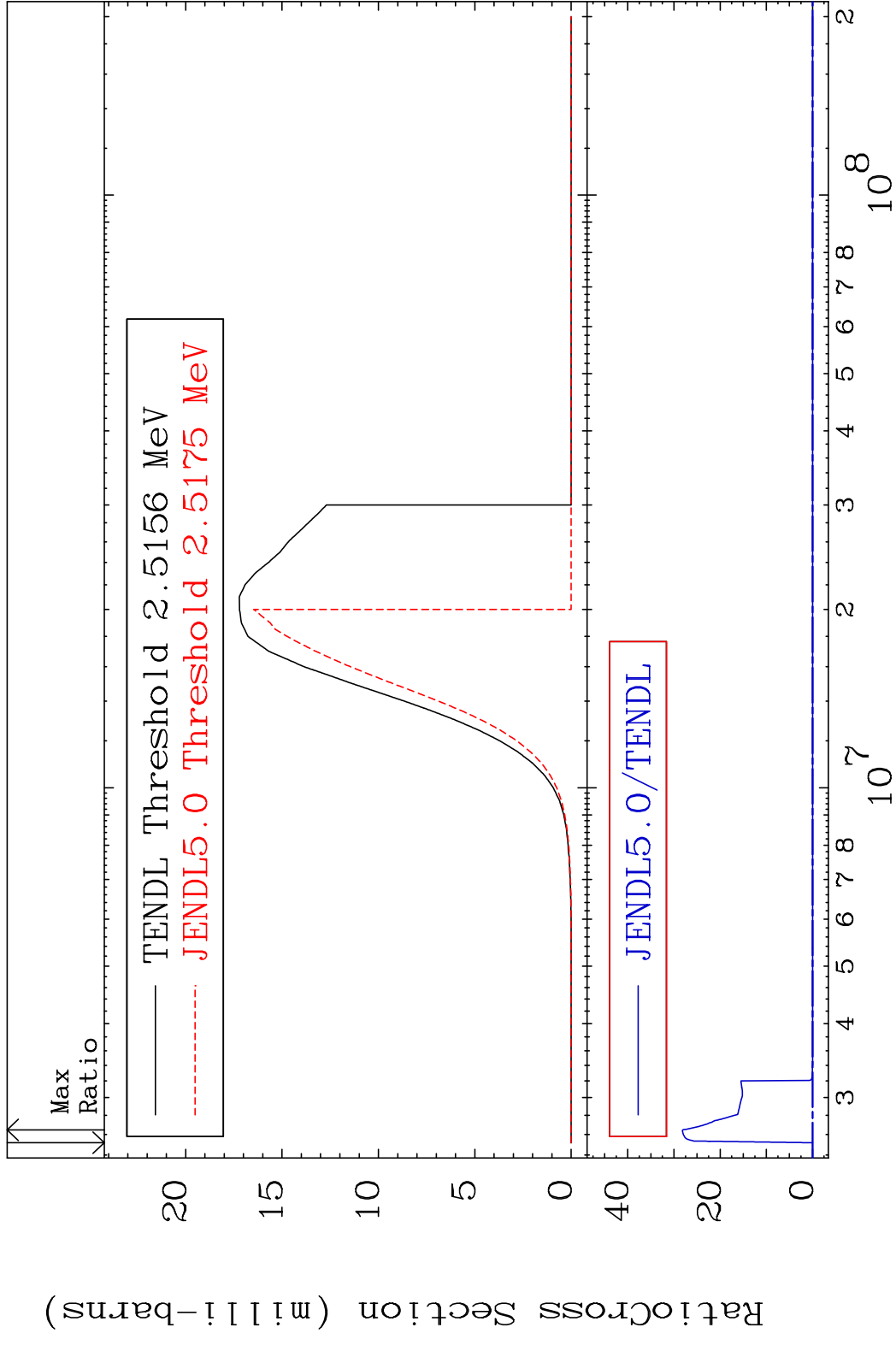
MAT 5037 (n, n') p:49-In-115g 50-Sn-116
 Radionuclide Production Cross Section Ratio

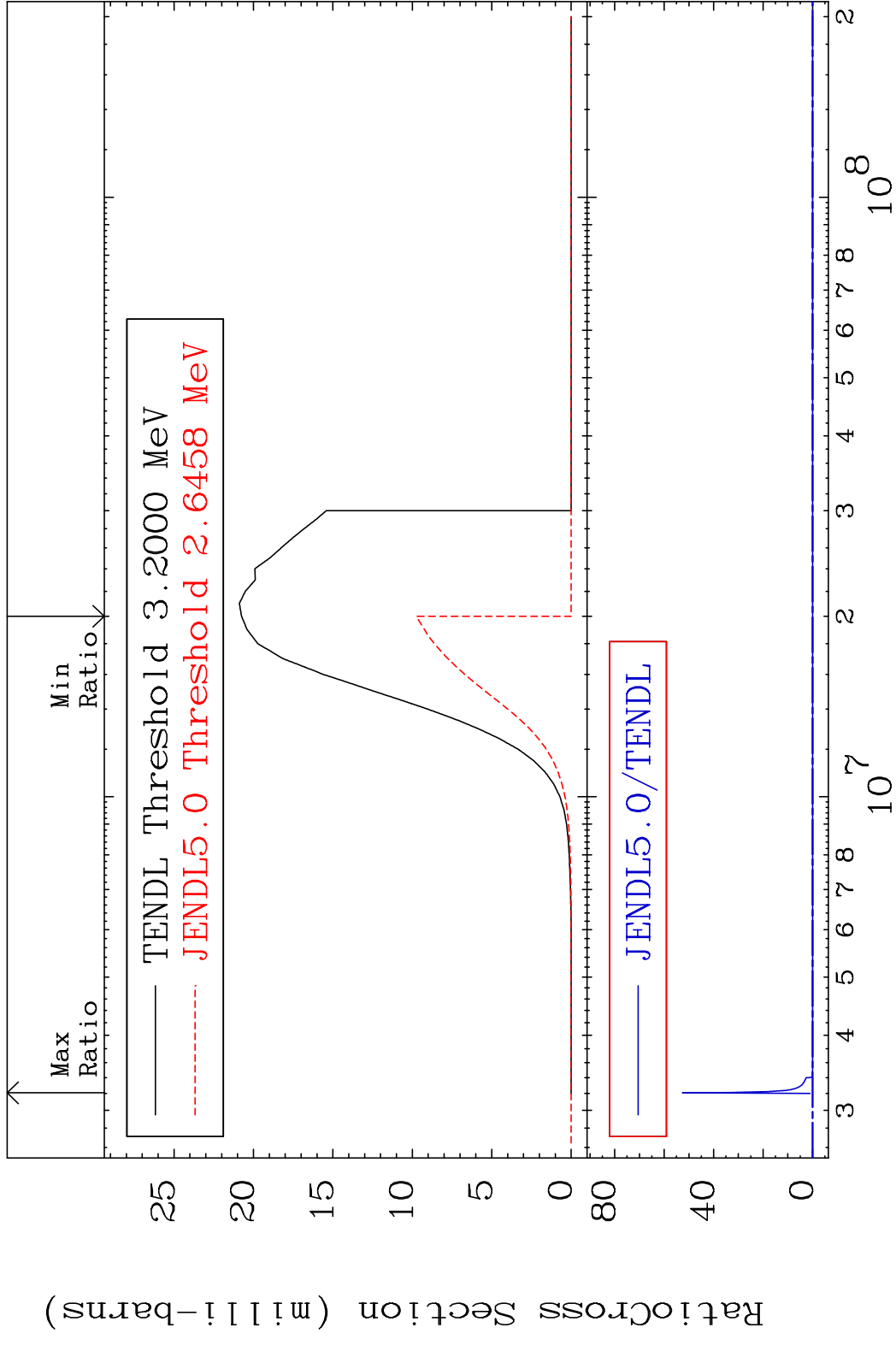


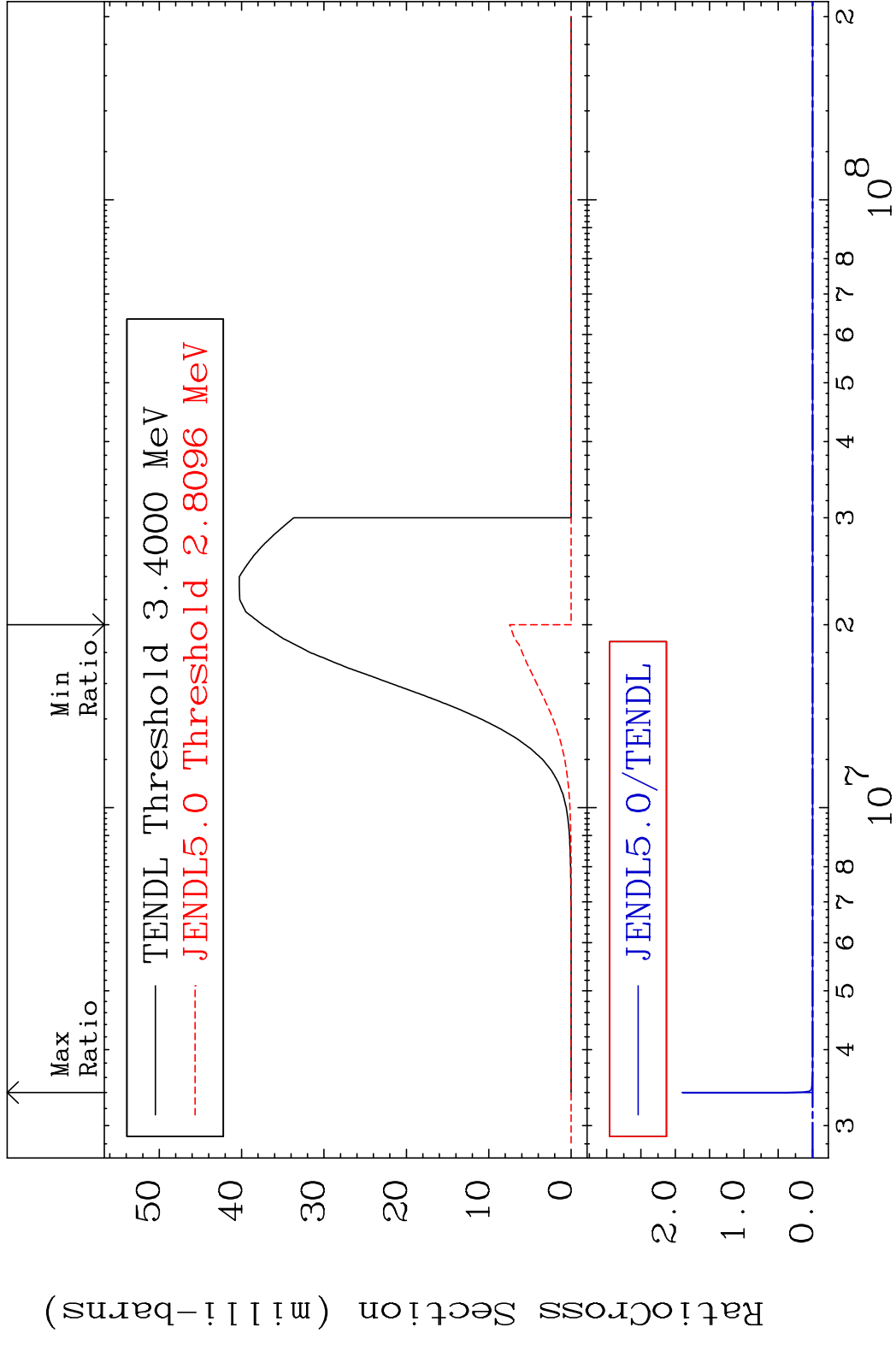
62 Incident Energy (eV) 50-Sn-116



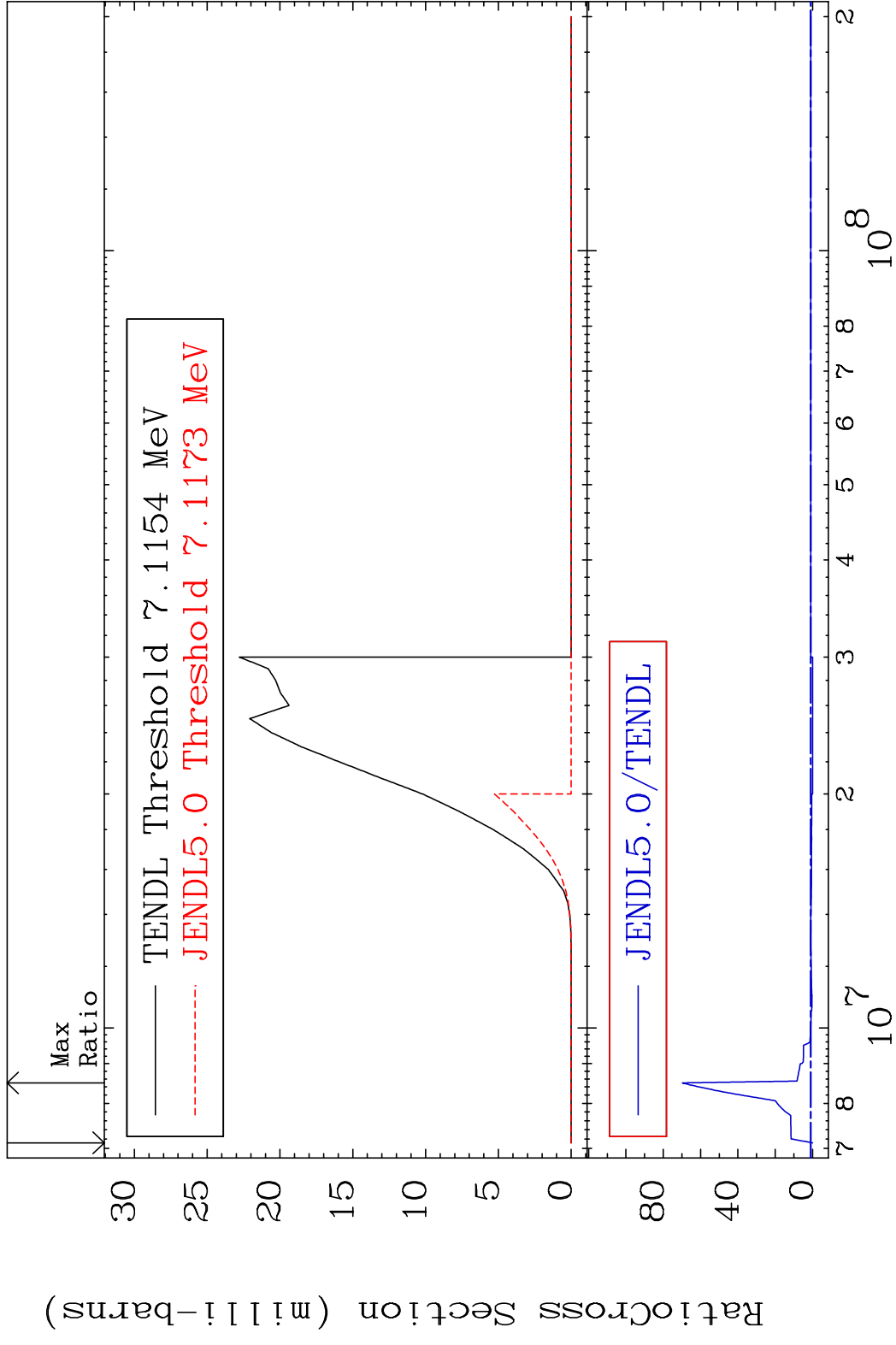
MAT 5037 (n,p):49-In-116 50-Sn-116
 Radionuclide Production Cross Section to 9999. %



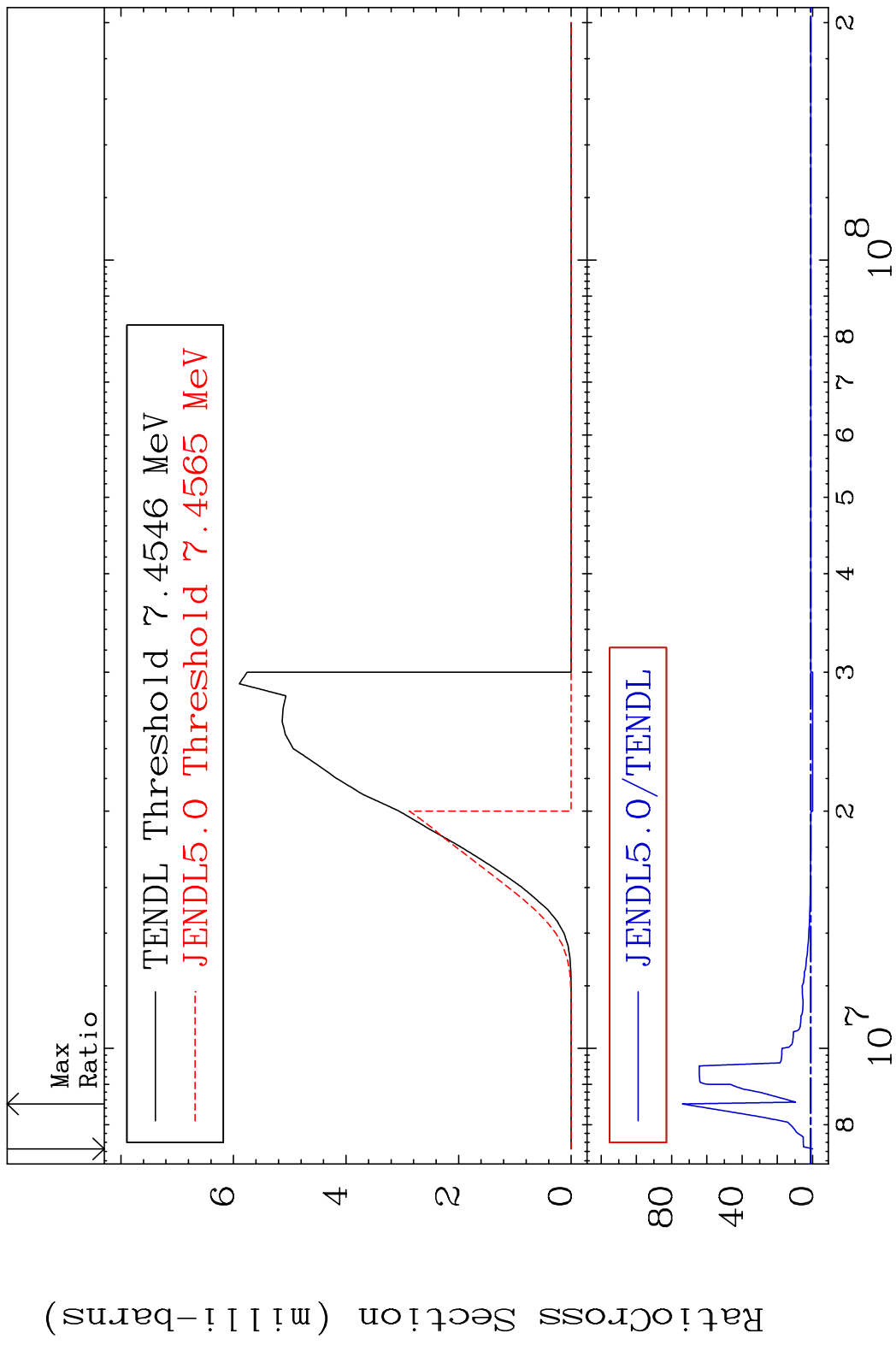


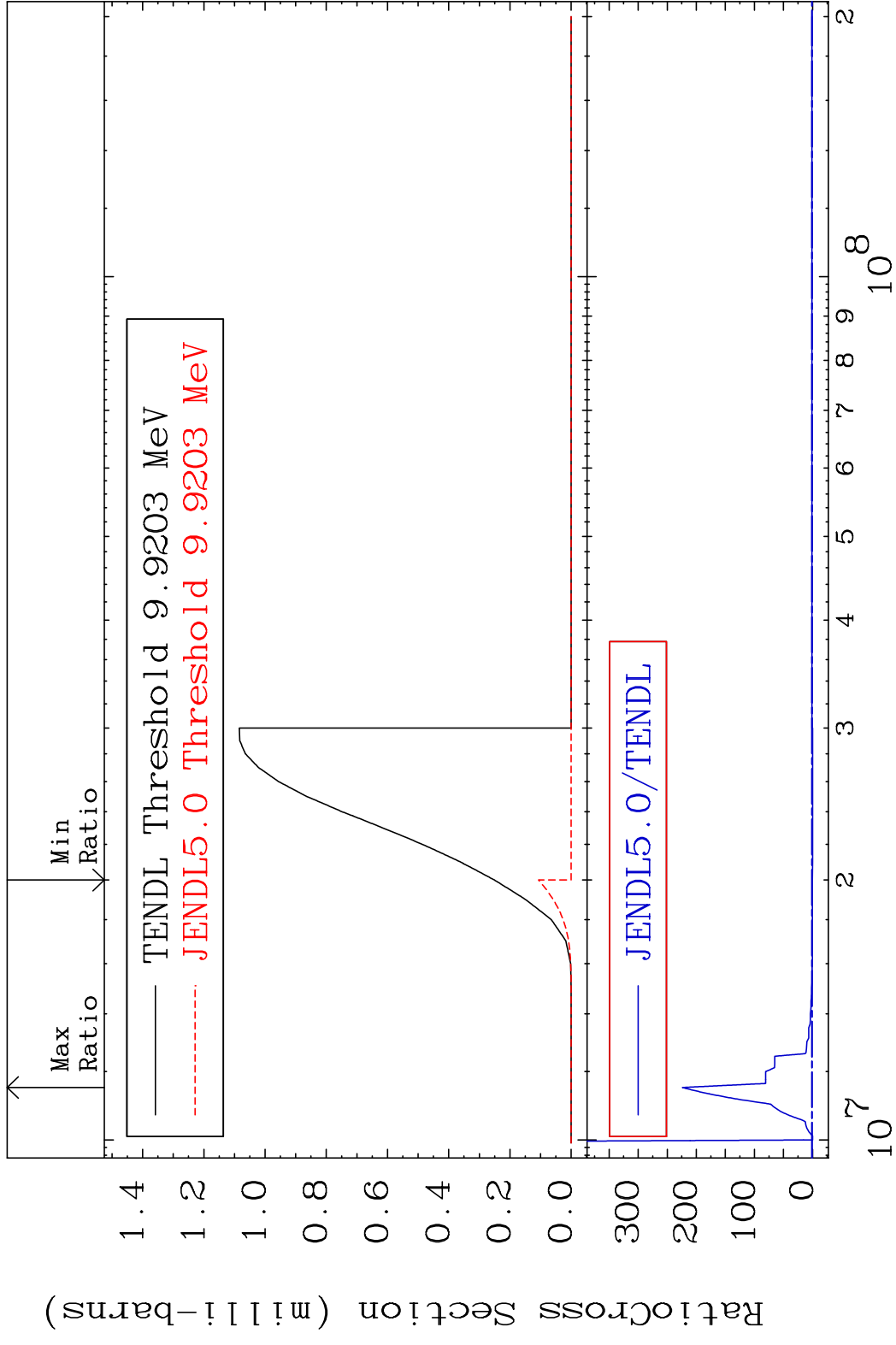


MAT 5037 (n,d):49-In-115g 50-Sn-116
 Radionuclide Production Cross Section Ratio 6877. %

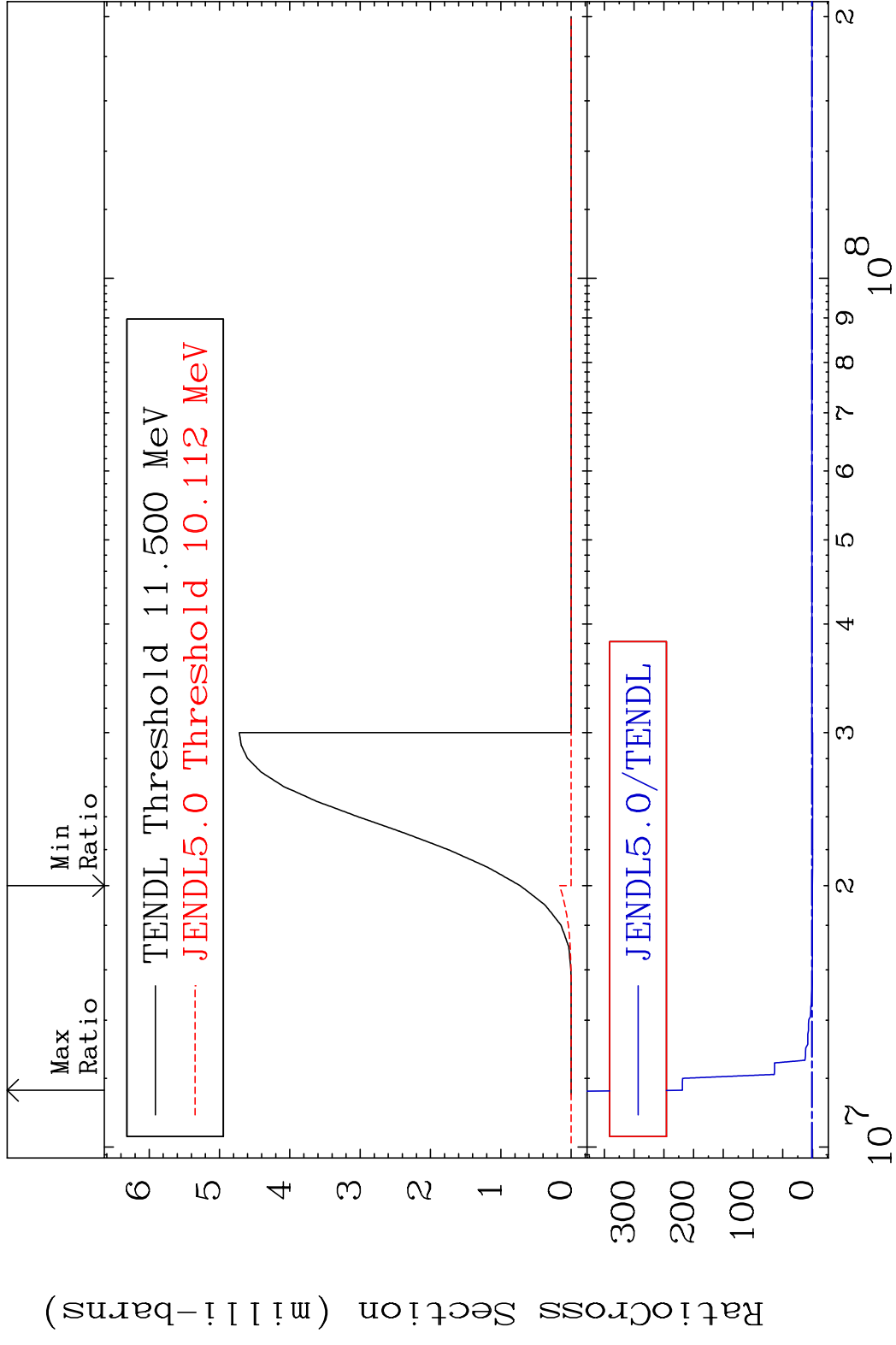


MAT 5037 (n,d):49-In-115m1 50-Sn-116
 Radionuclide Production Cross Section 180.01 dth 7289. %





MAT 5037 (n, t):49-In-114m1 50-Sn-116
 Radionuclide Production Cross Section (%)



70 Incident Energy (eV) 50-Sn-116