

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

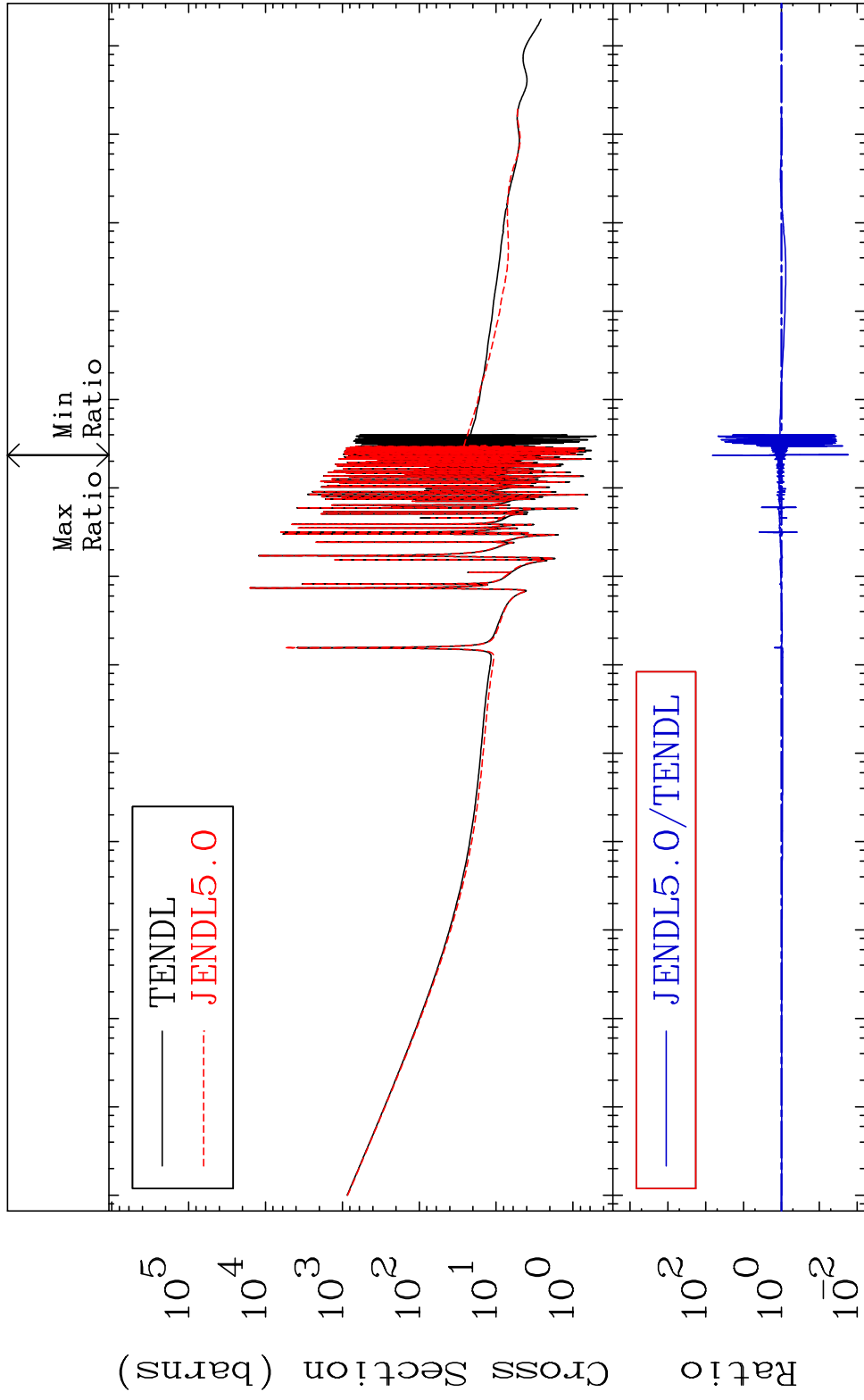
Press Mouse Button to Start

MAT 6837

Total

68-Er-166

Cross Section -98.29 To 6562. %



1

Incident Energy (eV)

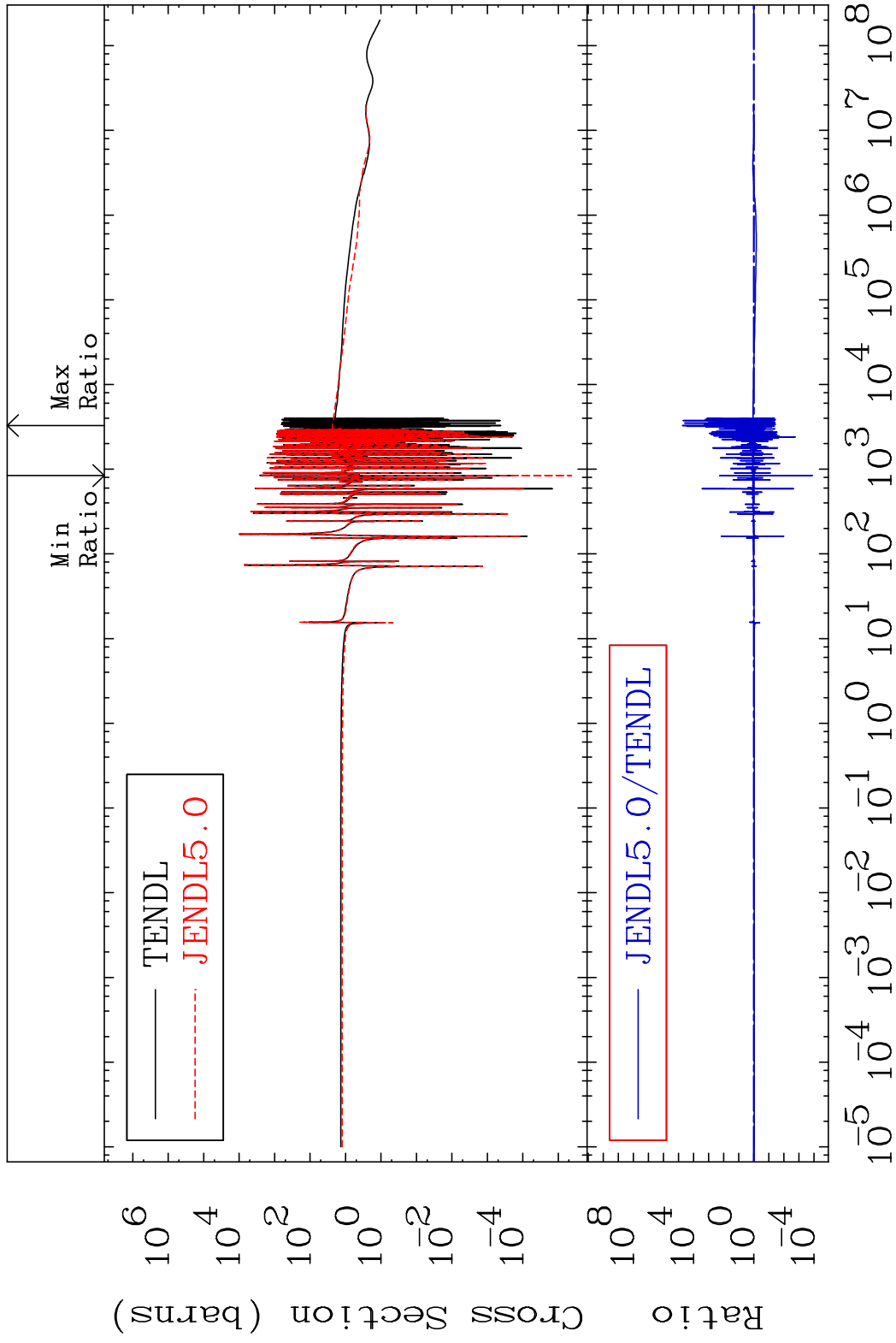
68-Er-166

MAT 6837

Elastic

68-Er-166

Cross Section -99.99 To 9999. %



2

Incident Energy (eV)

68-Er-166

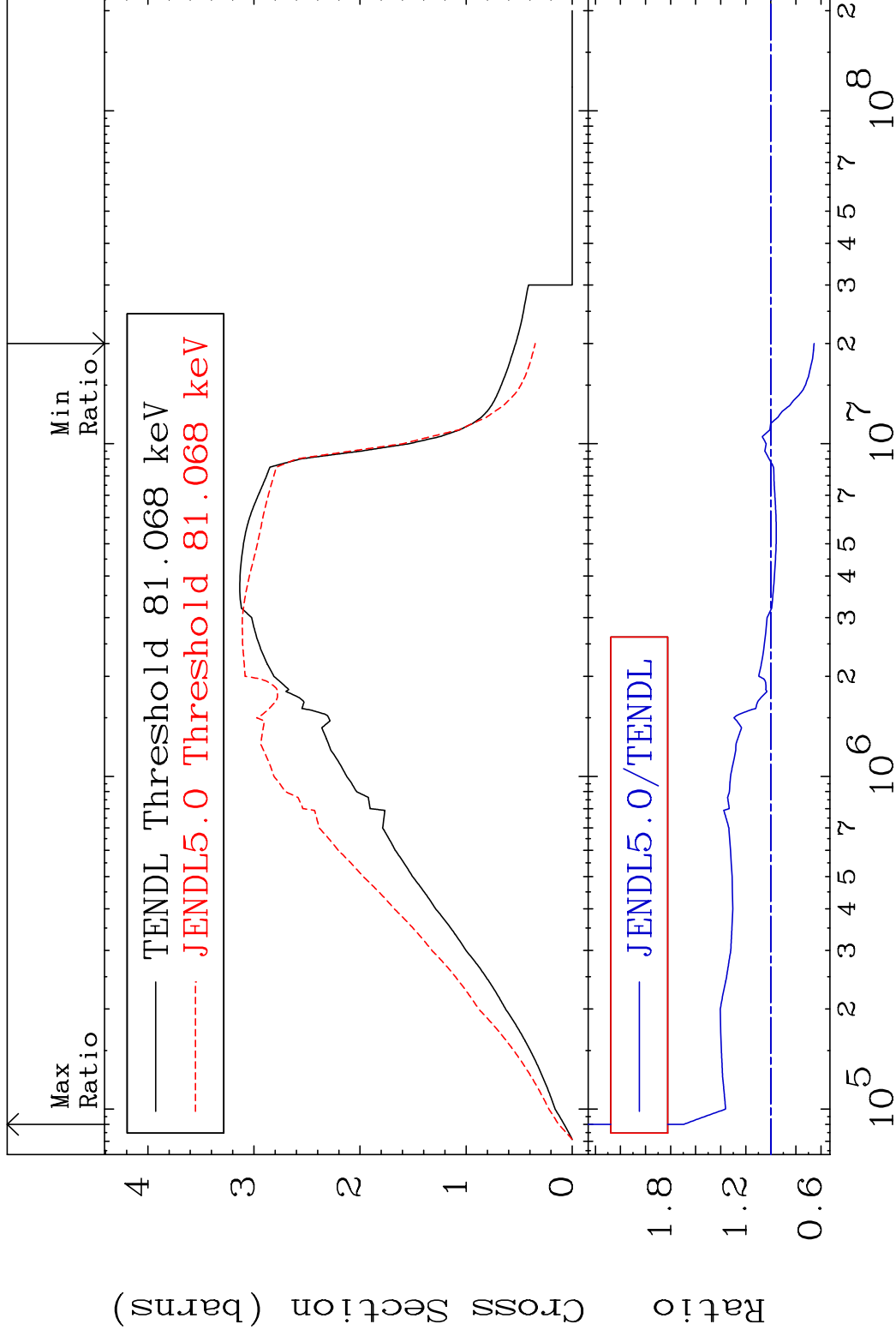
MAT 6837

Inelastic

68-Er-166

Cross Section

-34.54 To 69.58 %



3

Incident Energy (eV)

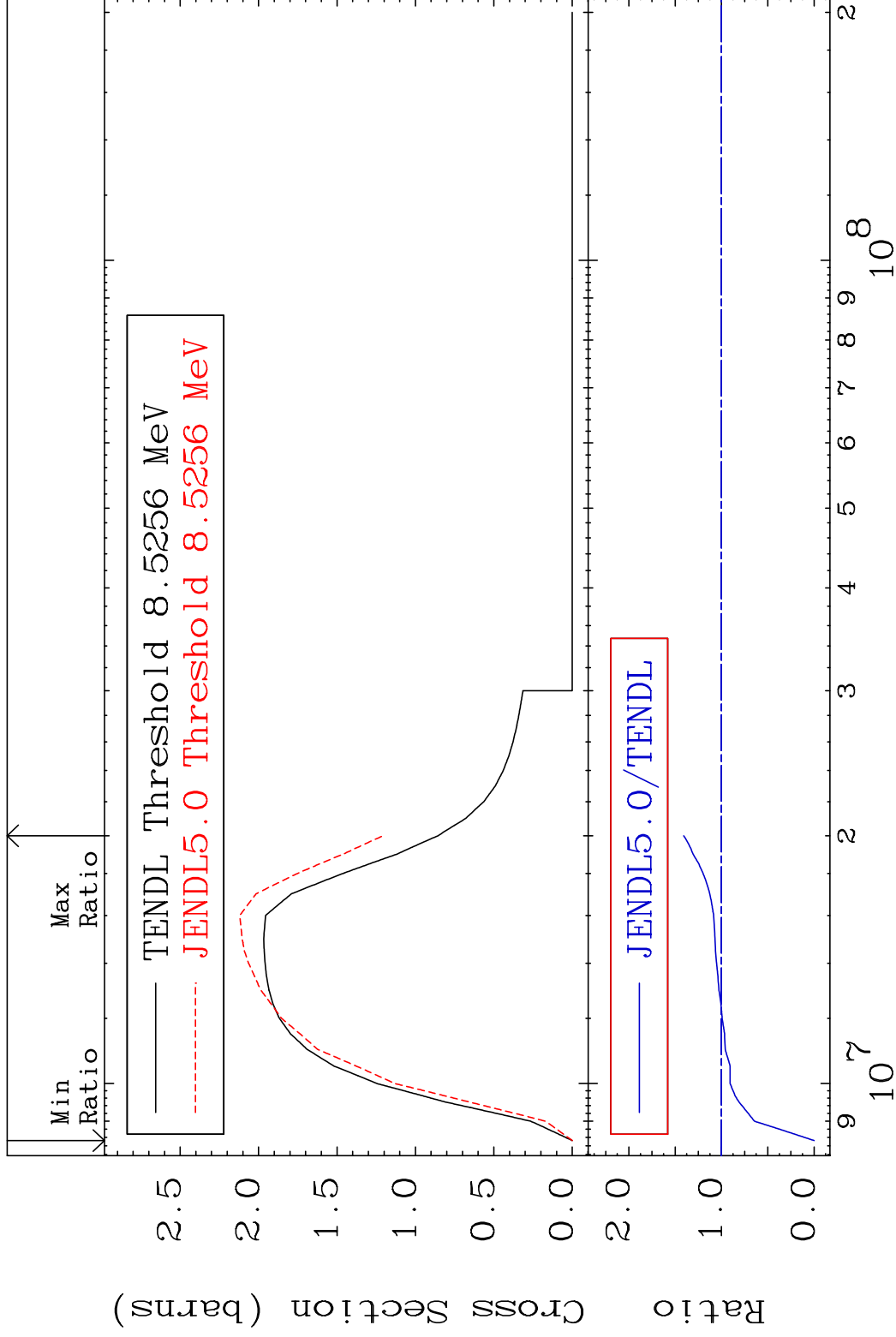
68-Er-166

MAT 6837

(n,2n)

68-Er-166

Cross Section -100.0 To 40.85 %



4

Incident Energy (eV)

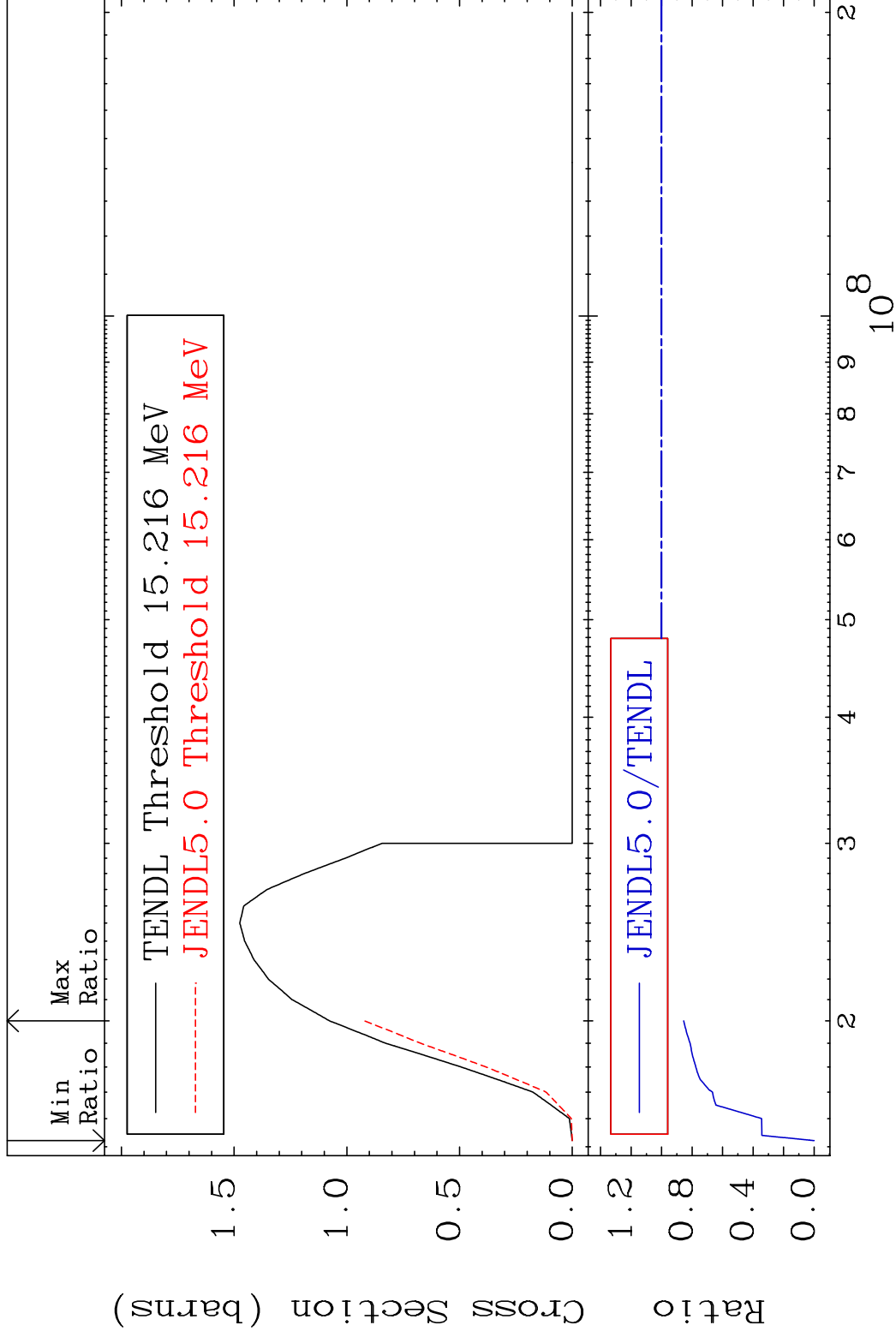
68-Er-166

MAT 6837

(n,3n)

68-Er-166

Cross Section -100.0 To -14.45%



5

Incident Energy (eV)

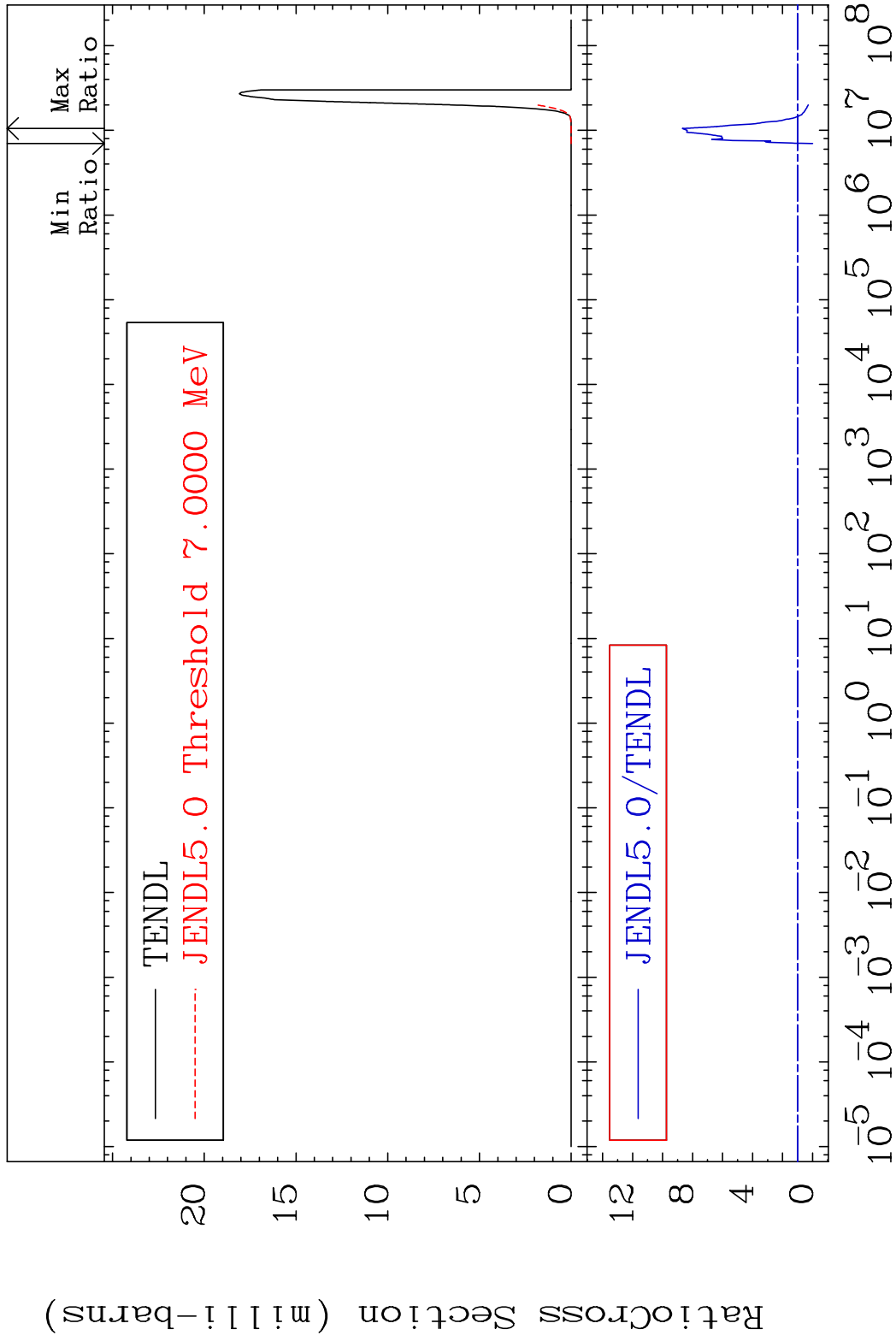
68-Er-166

MAT 6837

(n, n') α

68-Er-166

Cross Section -100.0 To 768.2 %

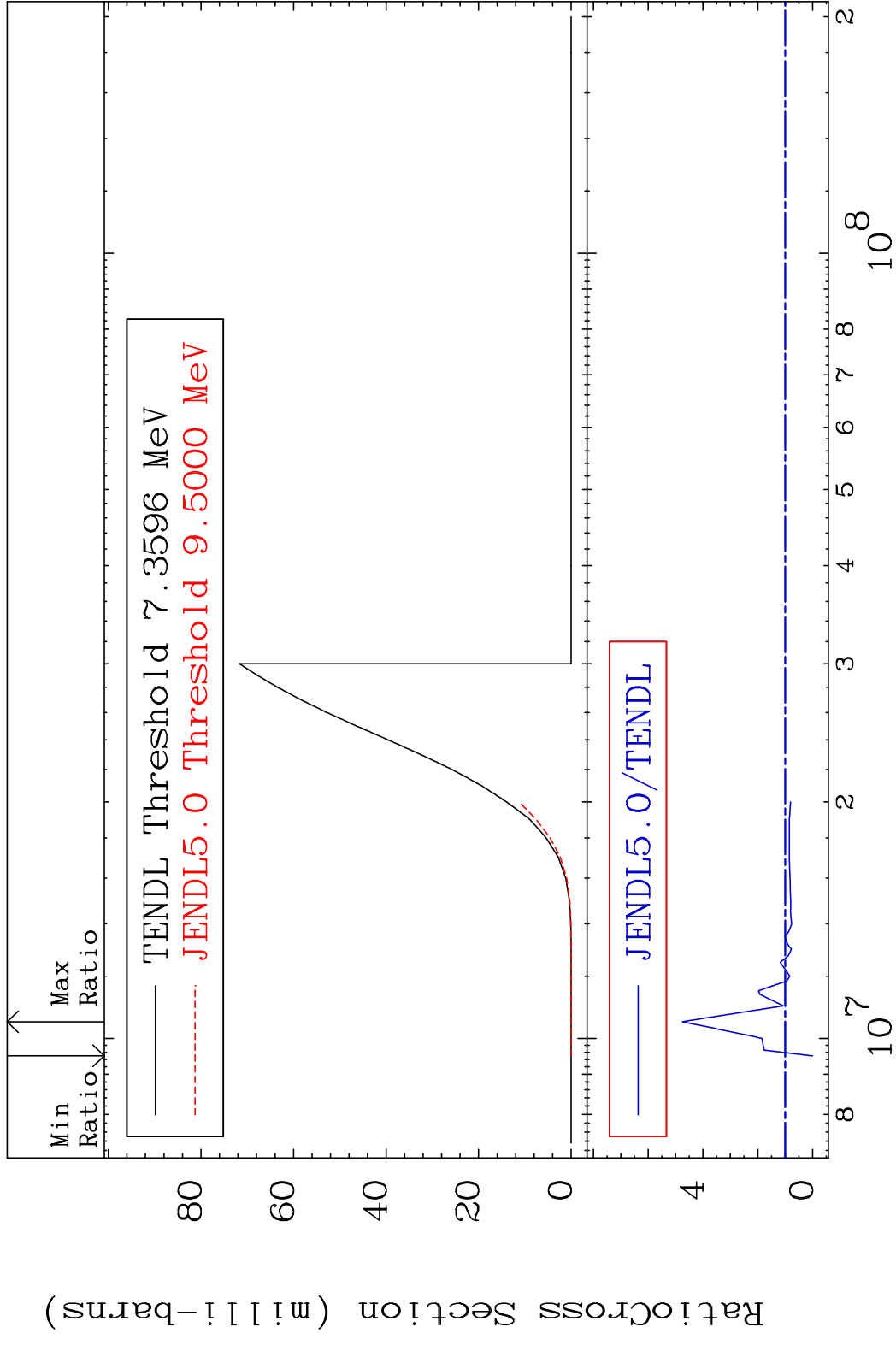


MAT 6837

(n, n') p

68-Er-166

Cross Section -100.0 To 375.2 %



7

Incident Energy (eV)

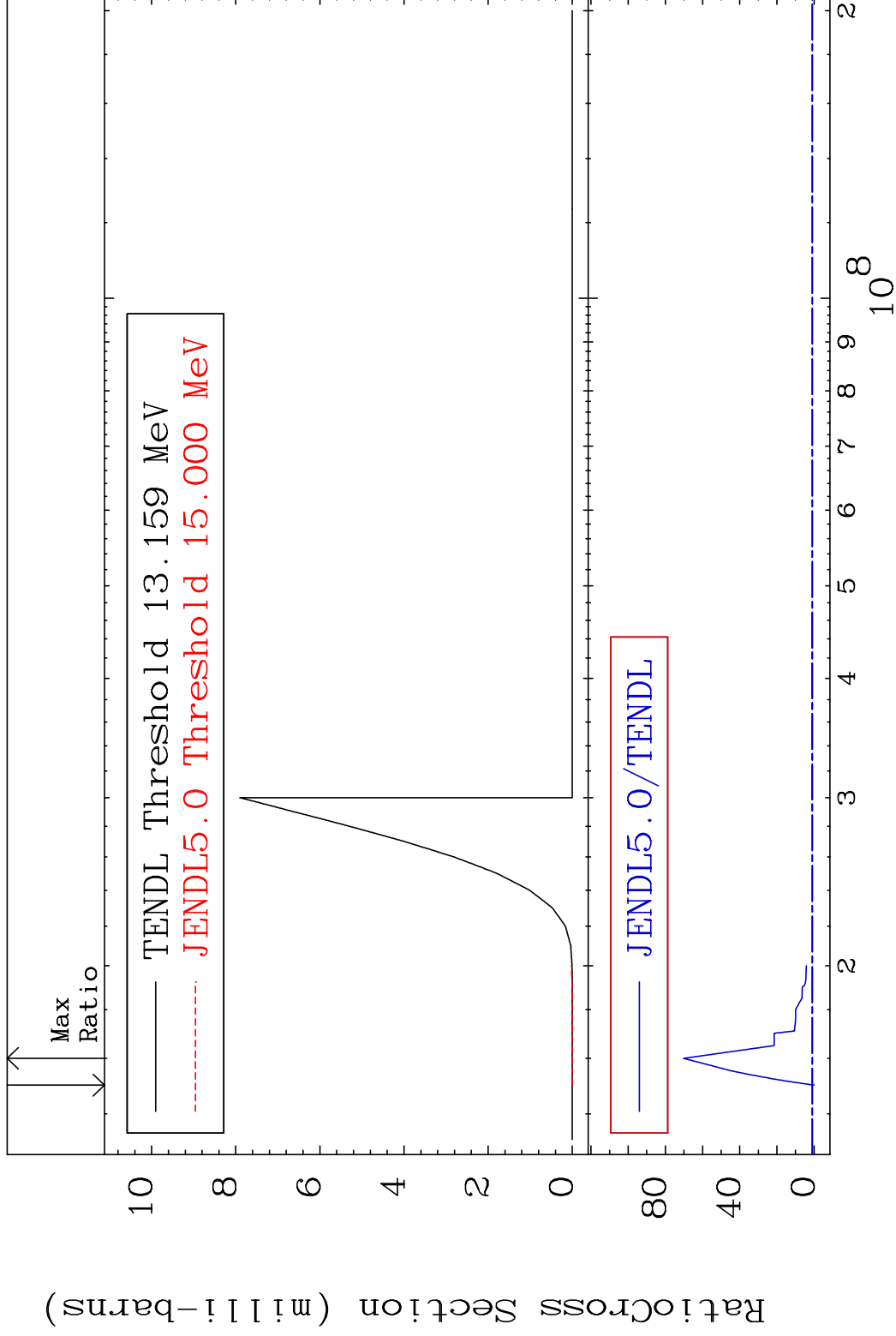
68-Er-166

MAT 6837

(n, n') d

68-Er-166

Cross Section -100.0 To 6916. %

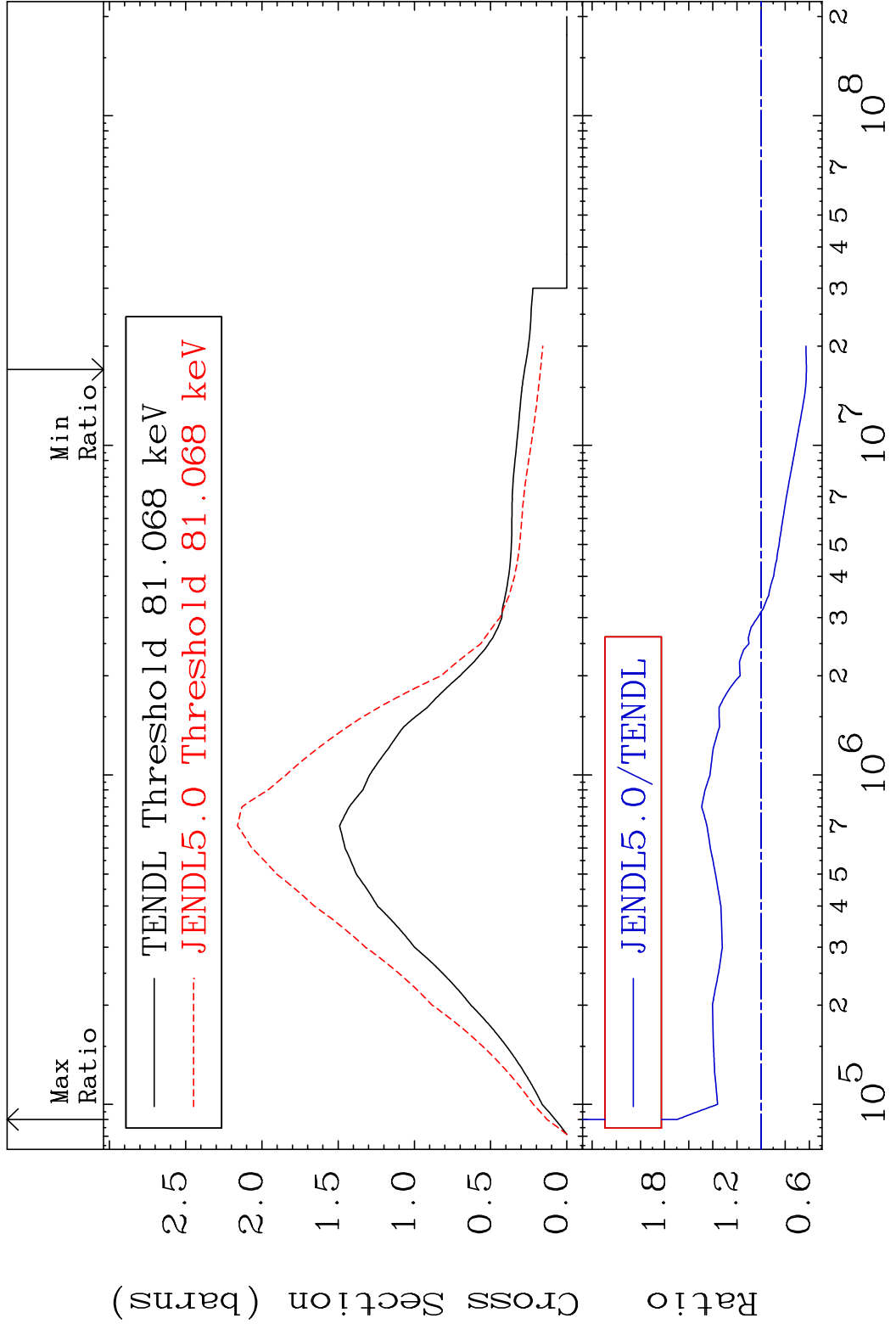


8

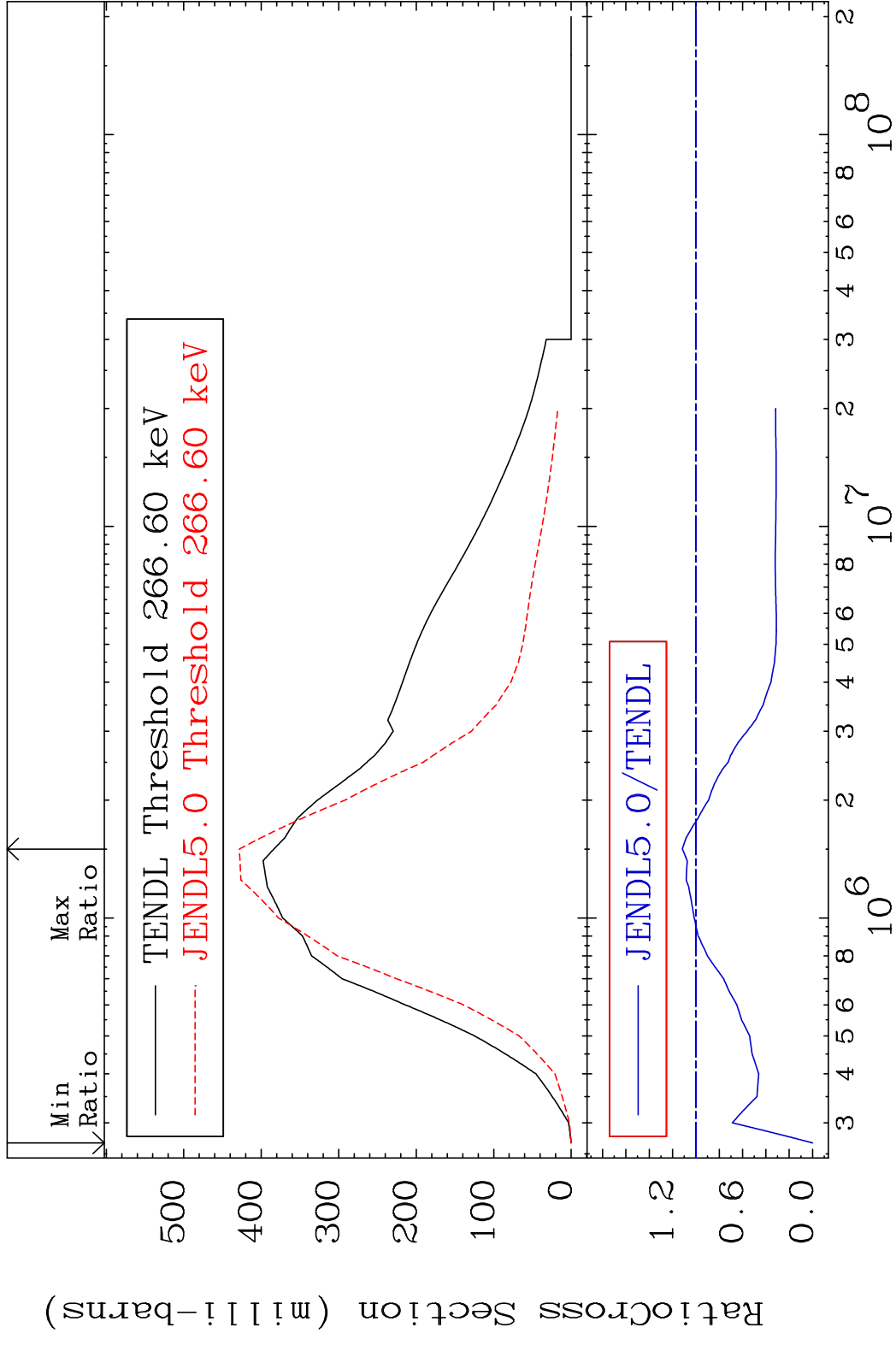
Incident Energy (eV)

68-Er-166

MAT 6837 MT= 51 (n,n') Level 68-Er-166
 Cross Section -37.53 To 69.58 %

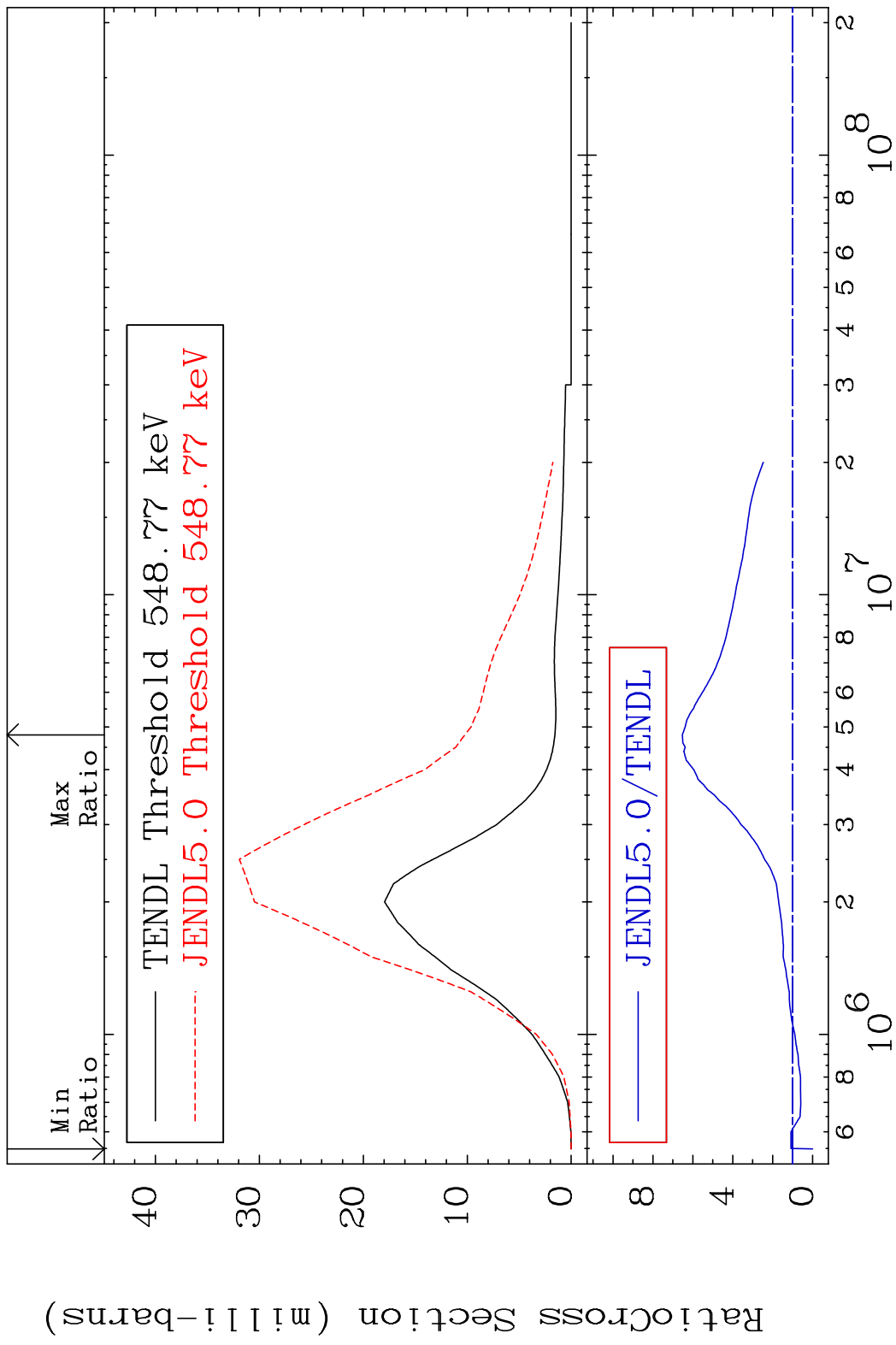


MAT 6837 MT= 52 (n, n') Level 68-Er-166
 Cross Section -100.0 To 11.61 %

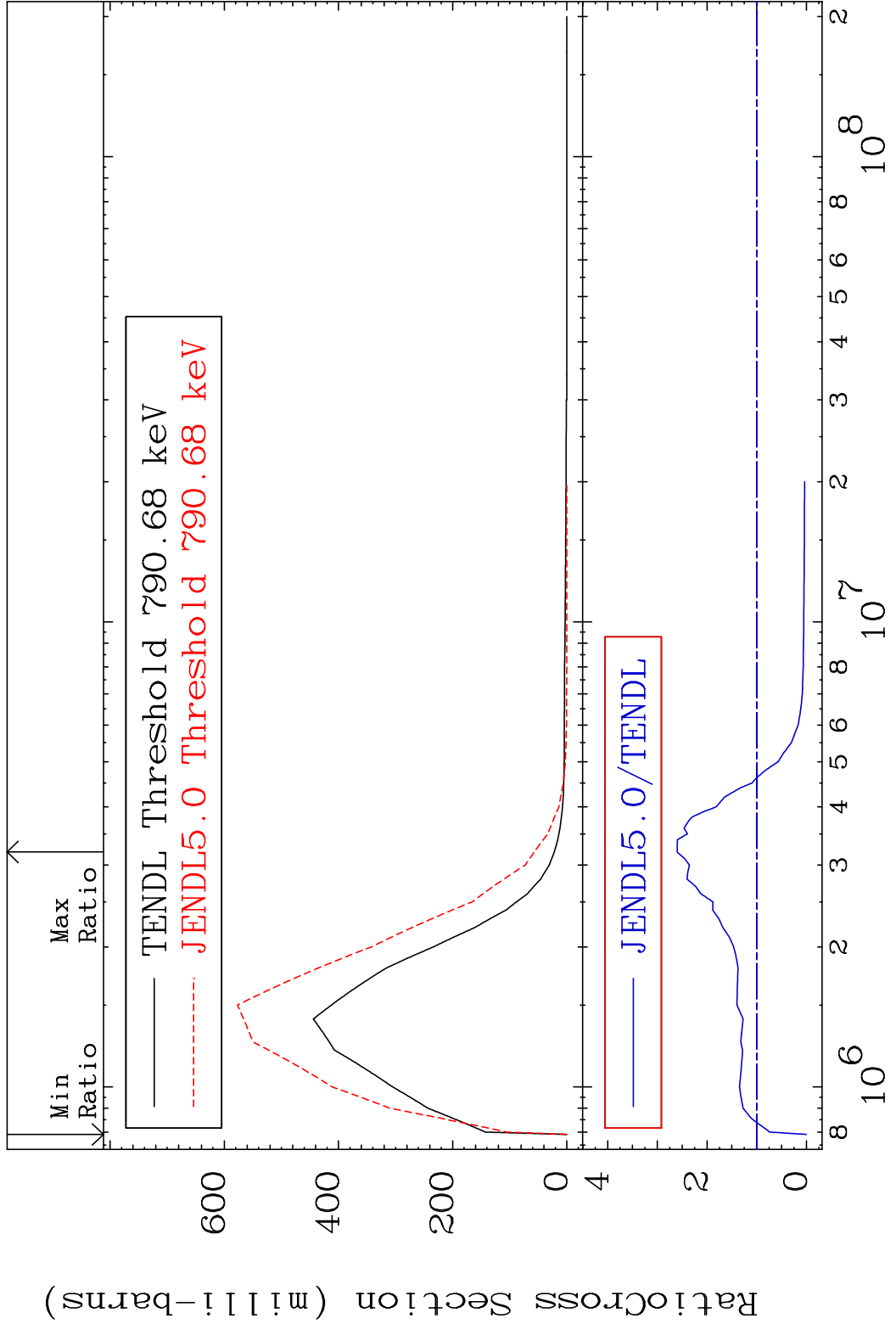


10 Incident Energy (eV) 68-Er-166

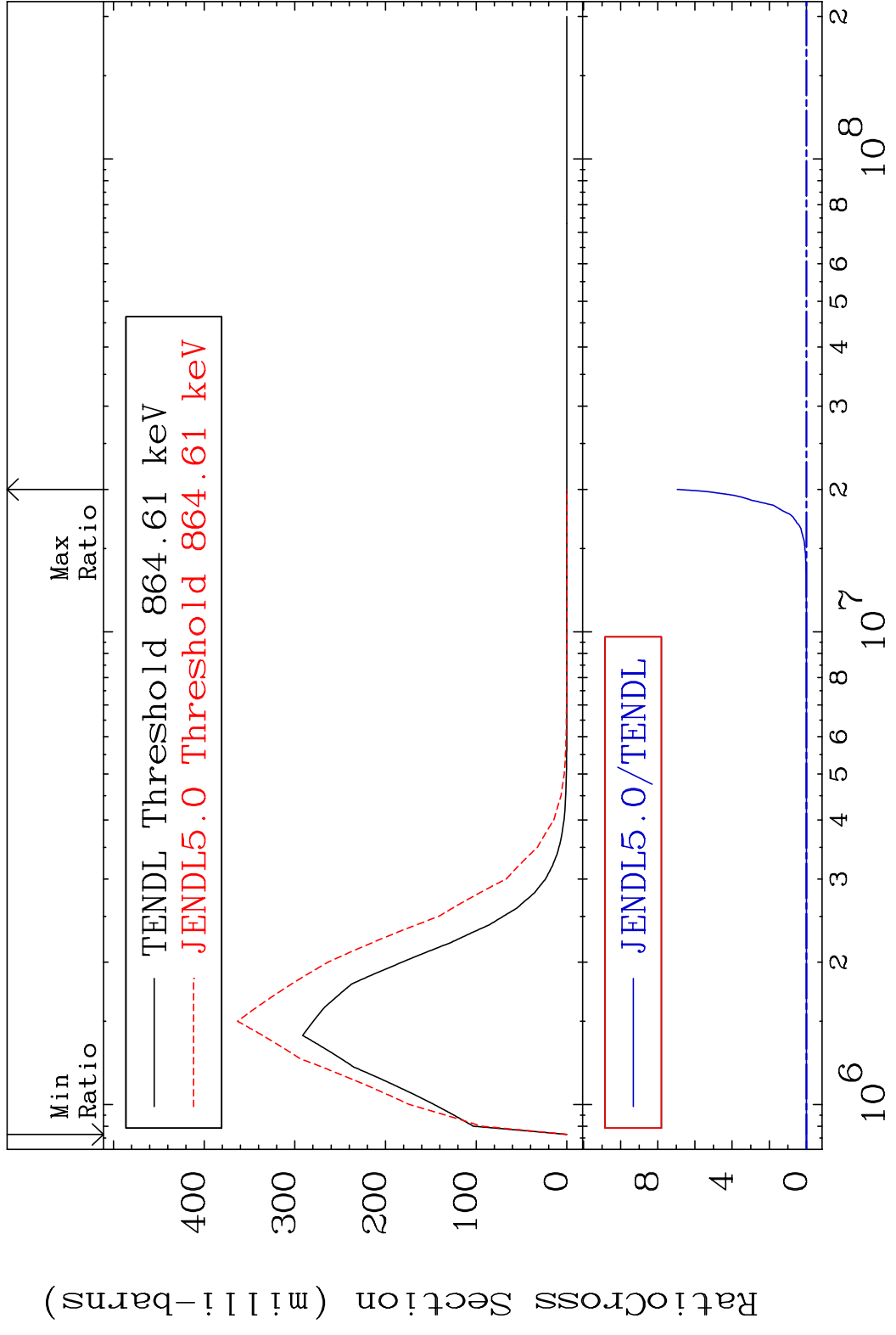
MAT 6837 MT= 53 (n, n') Level 68-Er-166
 Cross Section -100.0 To 552.5 %



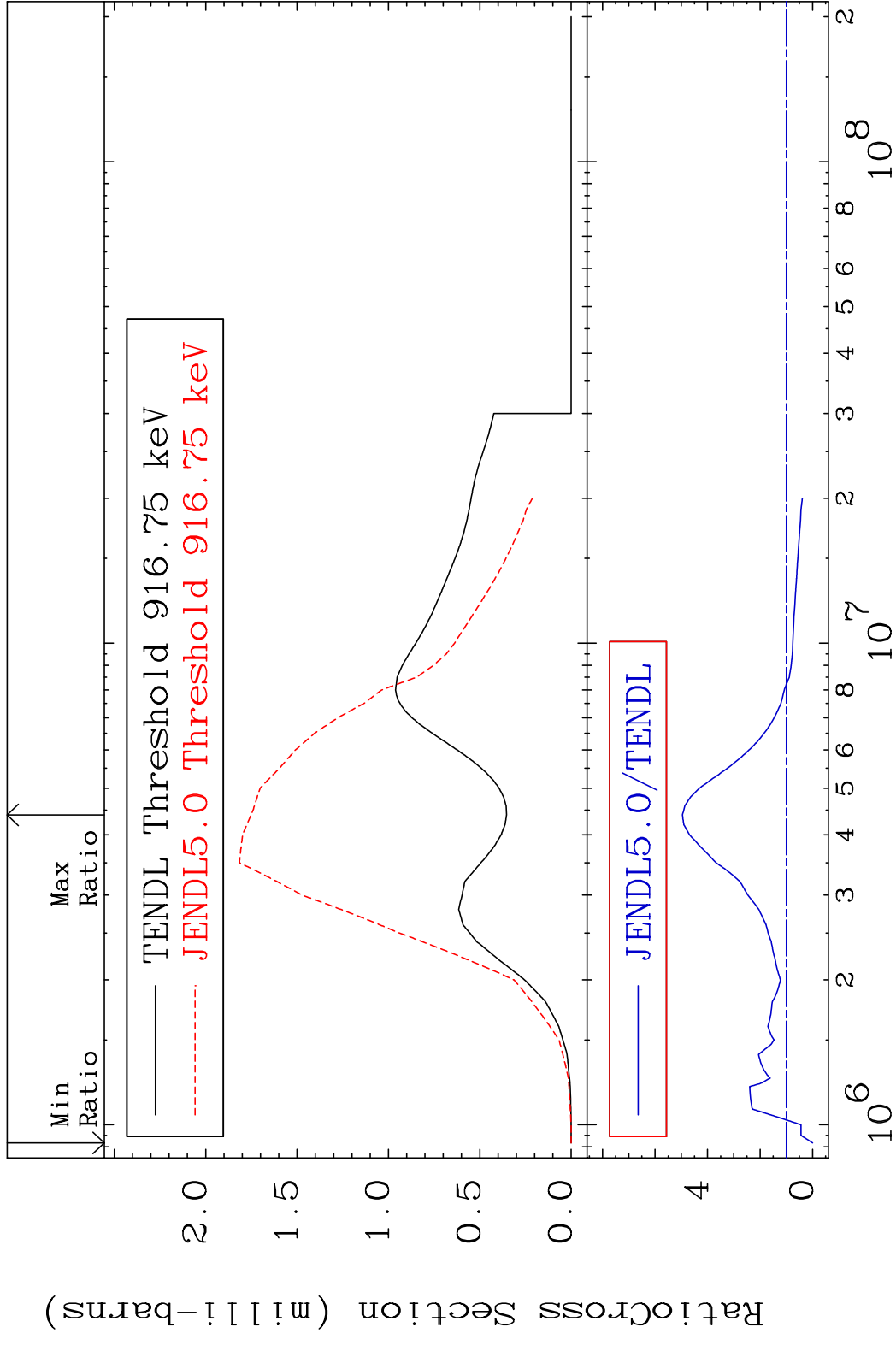
MAT 6837 MT= 54 (n,n') Level 68-Er-166
 Cross Section -100.0 To 160.0 %



MAT 6837 MT= 55 (n, n') Level 68-Er-166
 Cross Section -100.0 To 9999. %



MAT 6837 MT= 56 (n,n') Level 68-Er-166
 Cross Section -100.0 To 395.9 %



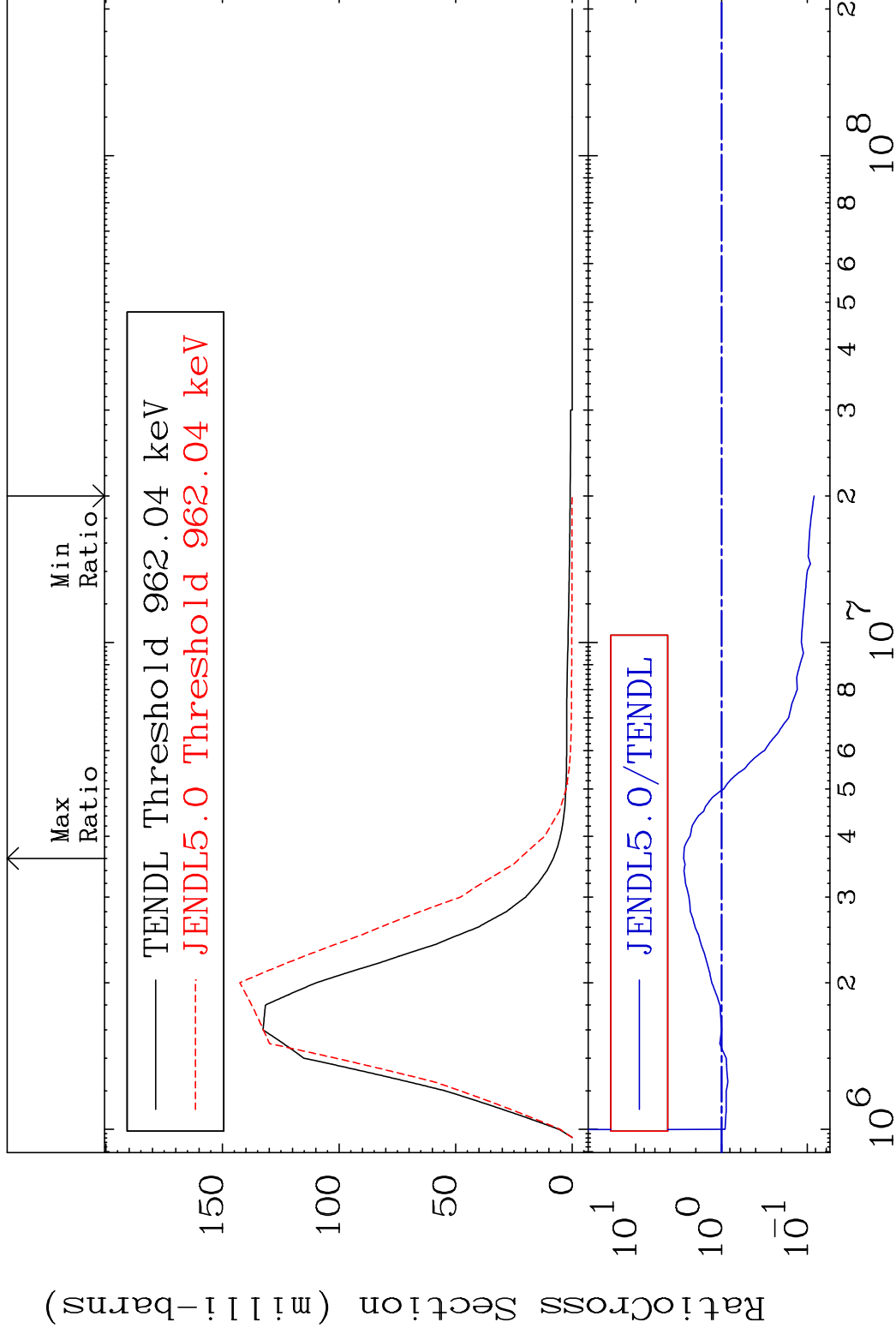
14 Incident Energy (eV) 68-Er-166

MAT 6837

MT= 57 (n, n') Level

68-Er-166

Cross Section -91.67 To 176.6 %

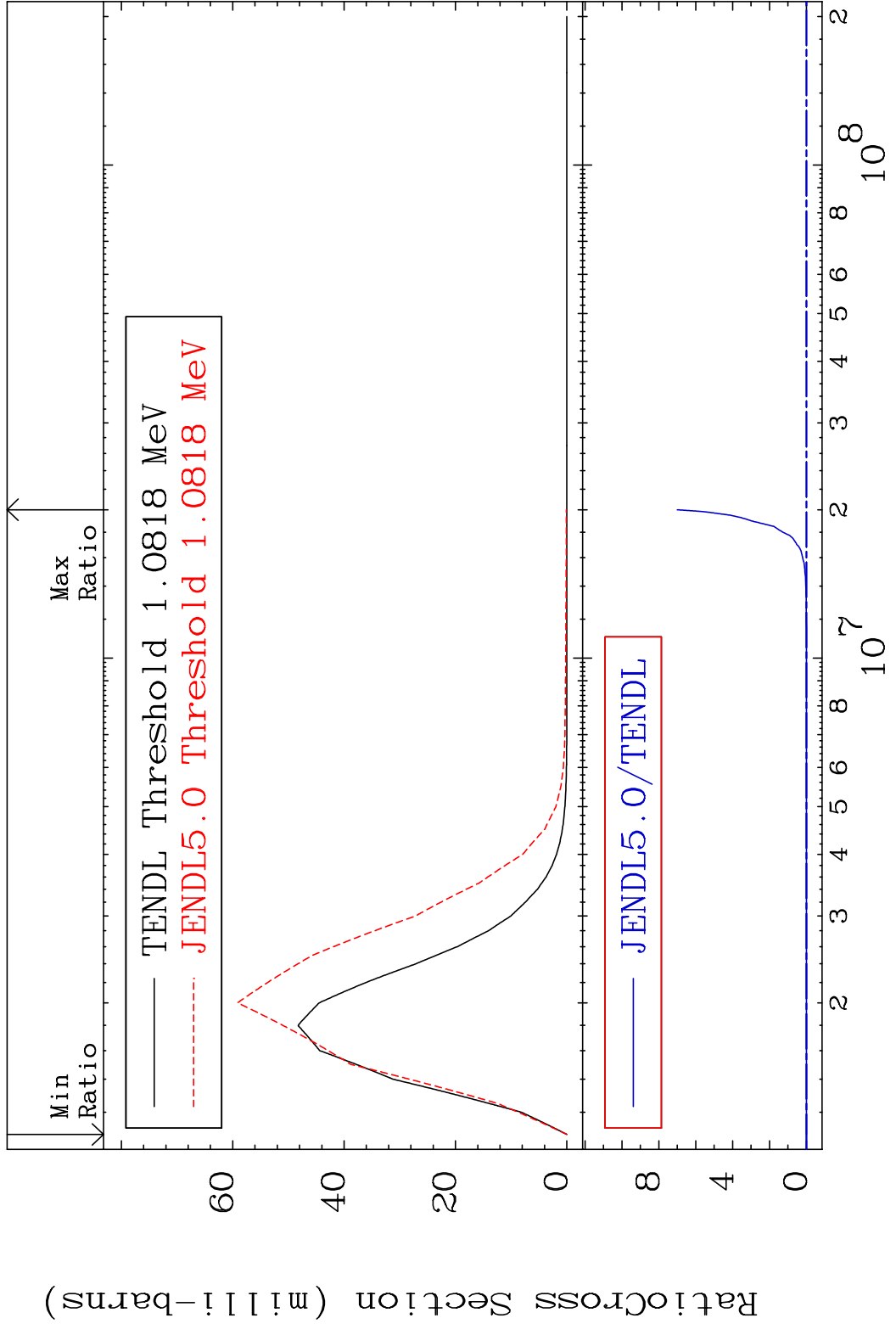


15

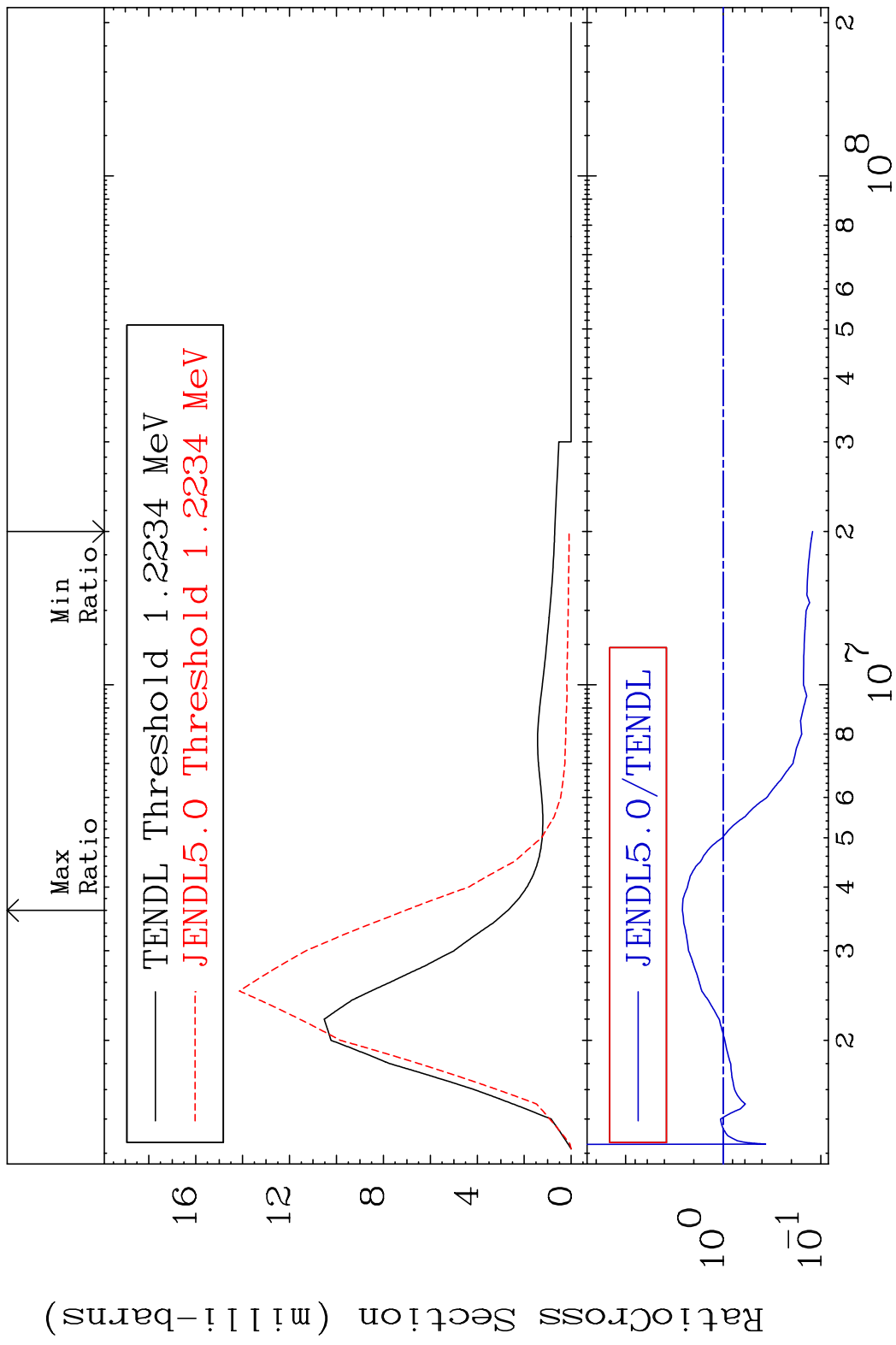
Incident Energy (eV)

68-Er-166

MAT 6837 MT= 58 (n, n') Level 68-Er-166
 Cross Section -100.0 To 9999. %

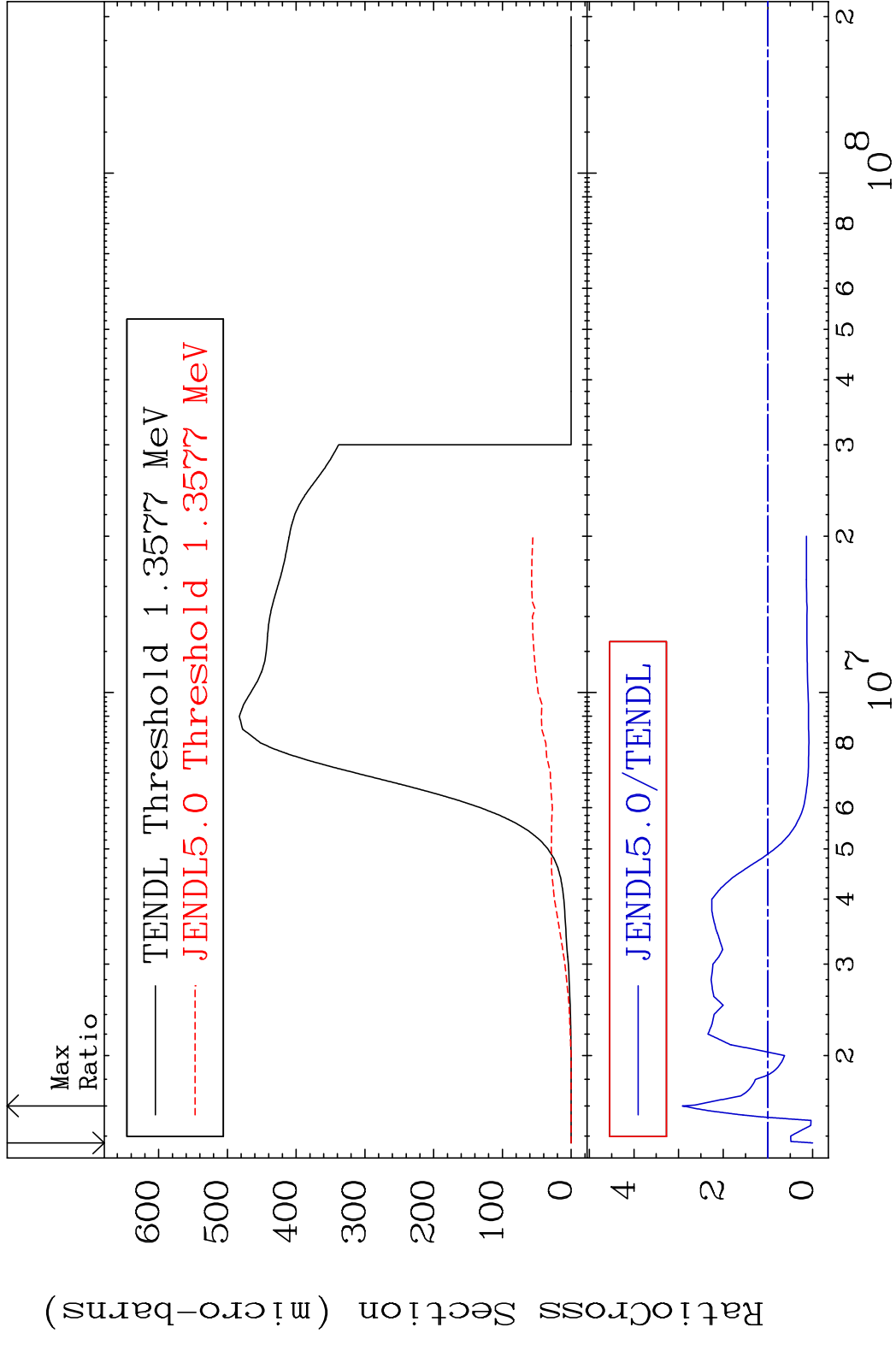


MAT 6837 MT= 59 (n, n') Level 68-Er-166
 Cross Section -87.87 To 162.2 %

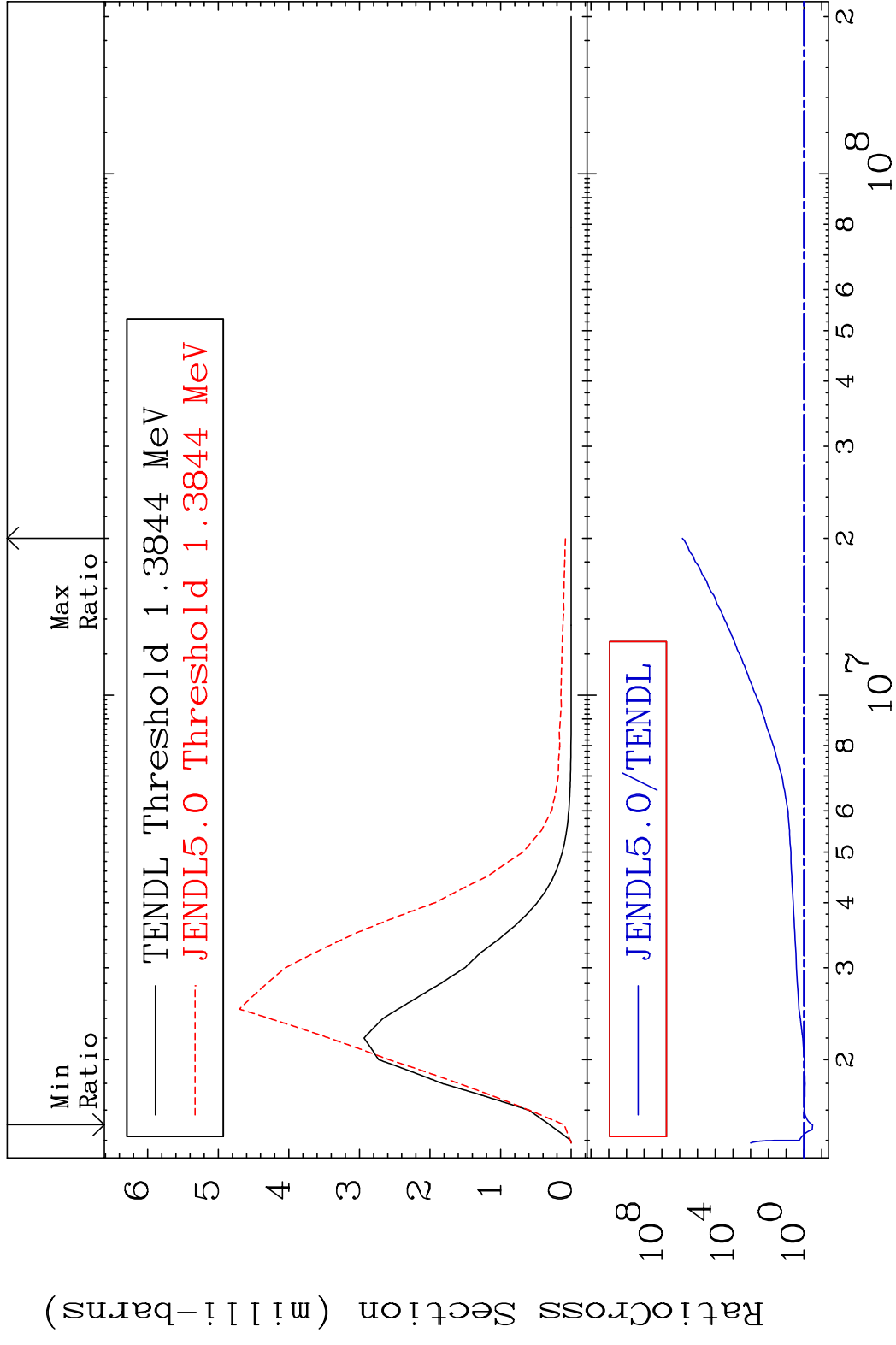


17 68-Er-166

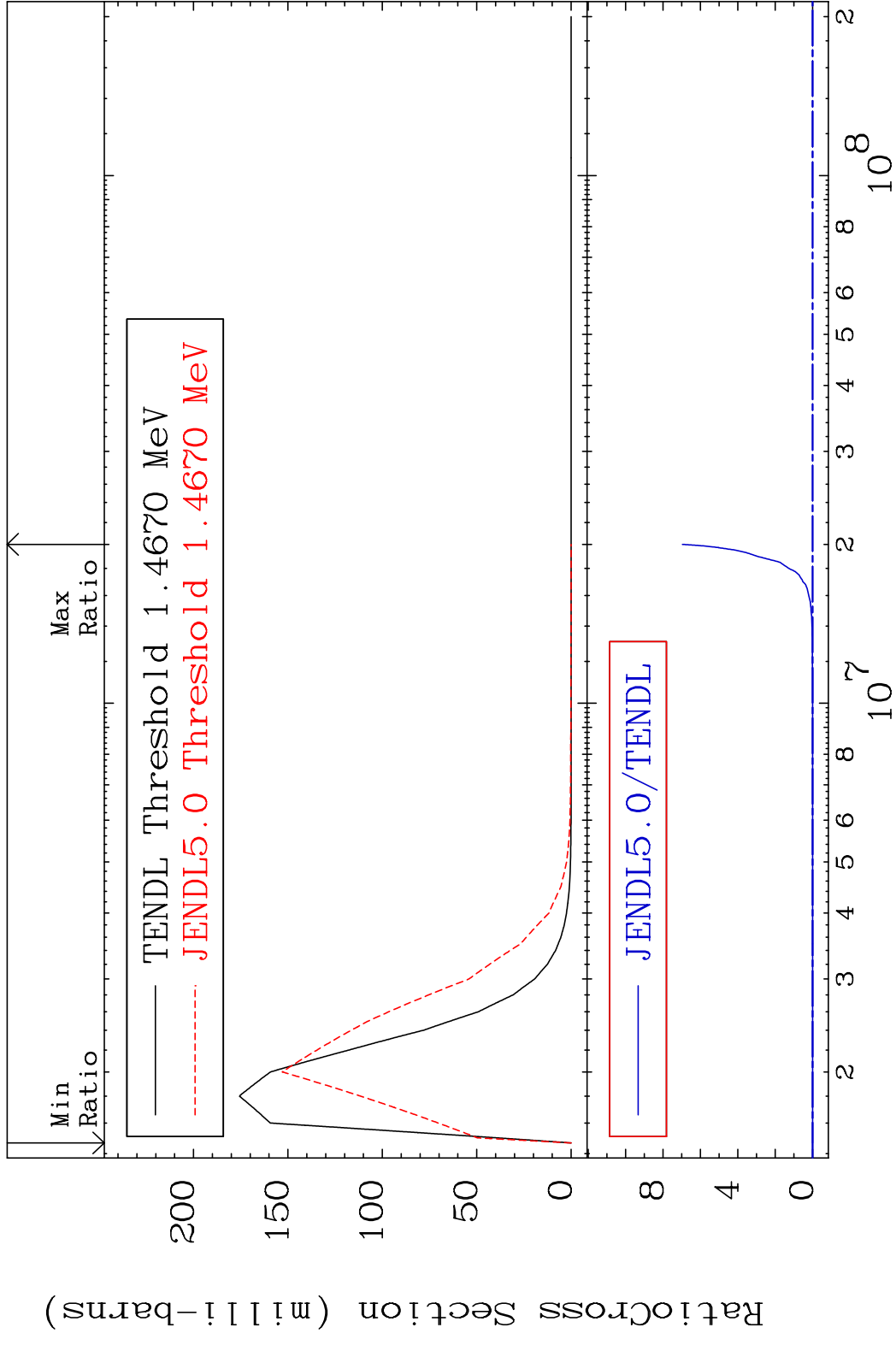
MAT 6837 MT= 60 (n, n') Level 68-Er-166
 Cross Section -100.0 To 191.6 %



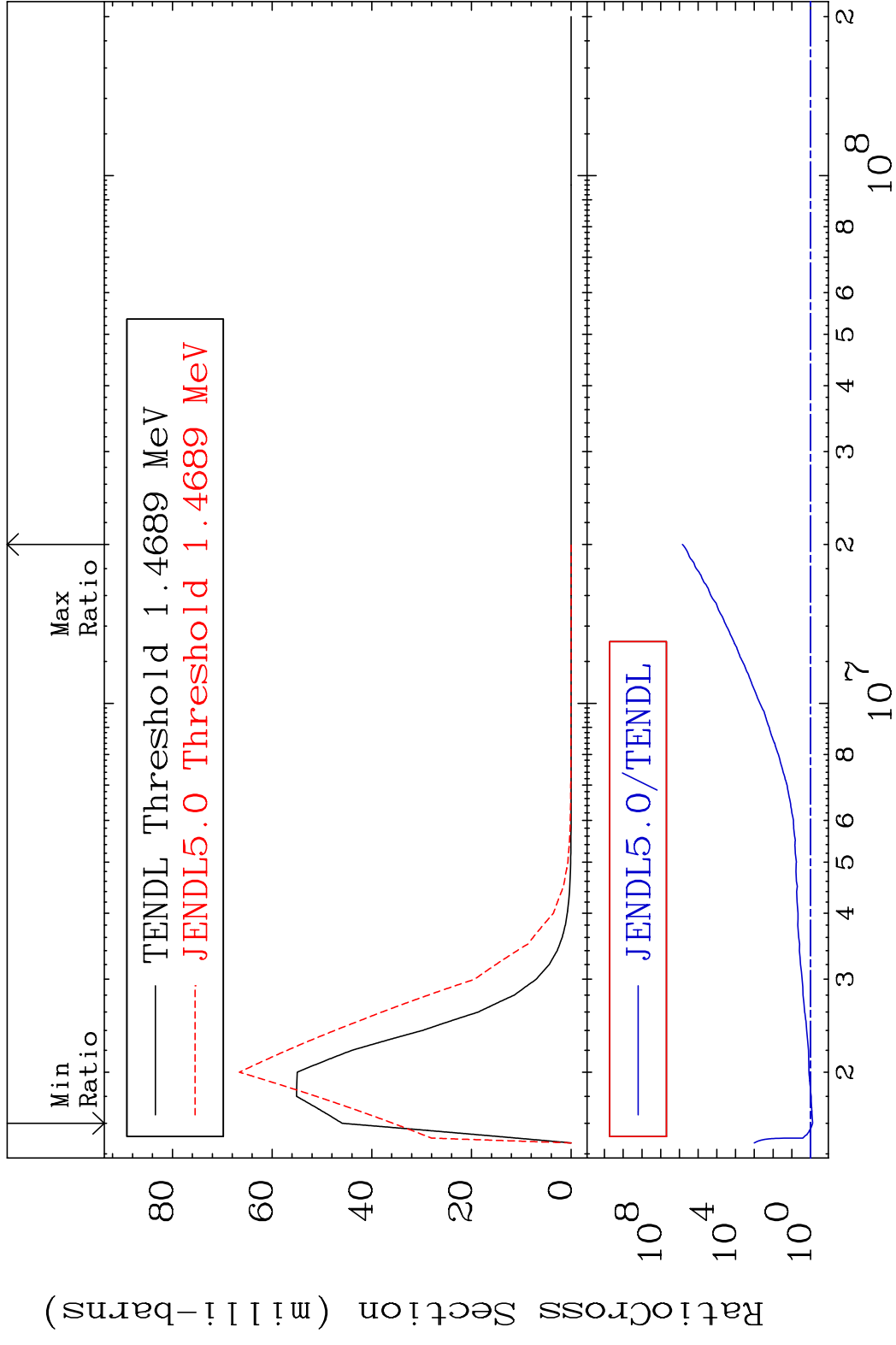
MAT 6837 MT= 61 (n, n') Level 68-Er-166
 Cross Section -67.29 To 9999. %



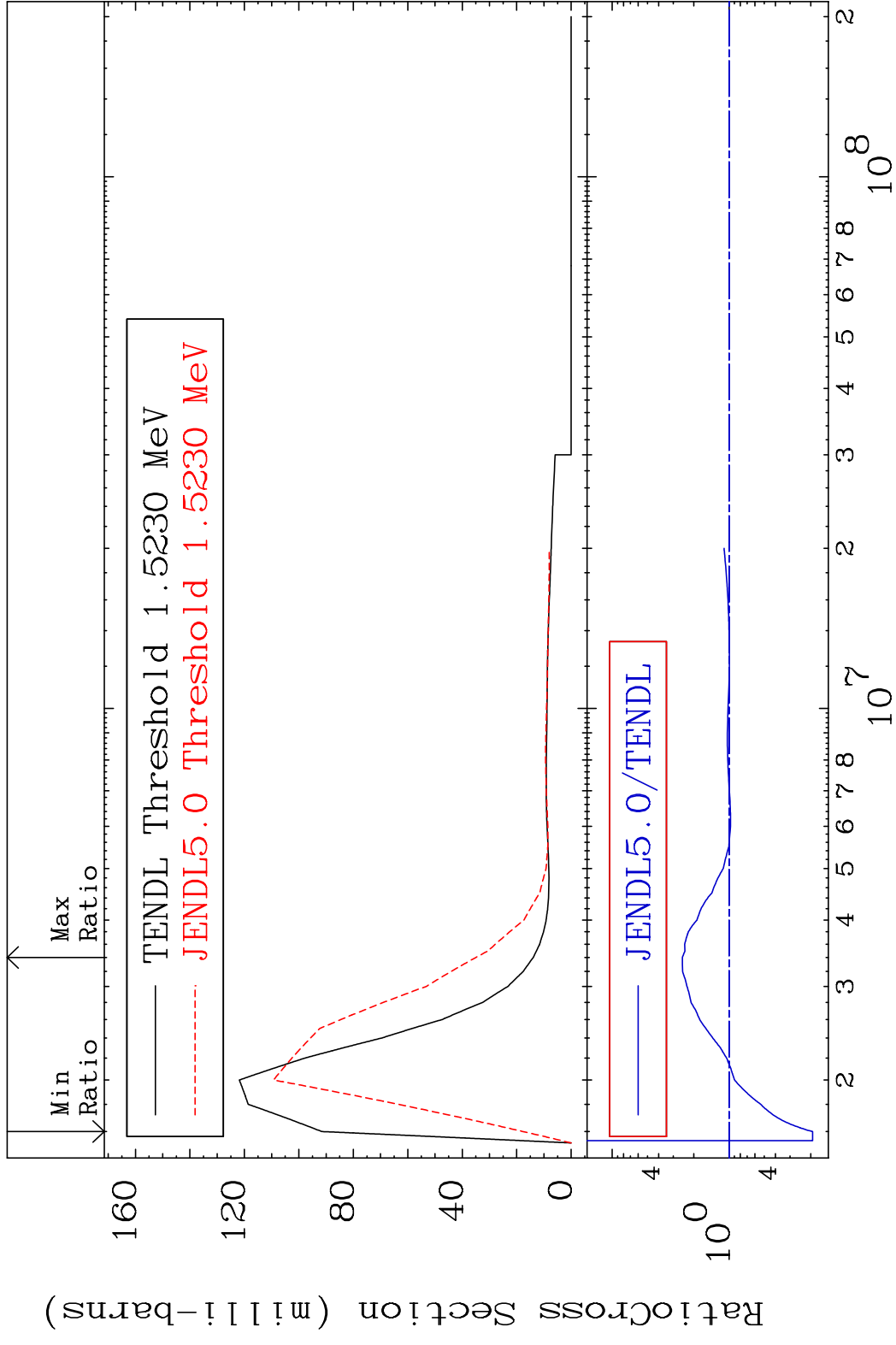
MAT 6837 MT= 62 (n, n') Level 68-Er-166
 Cross Section -100.0 To 9999. %



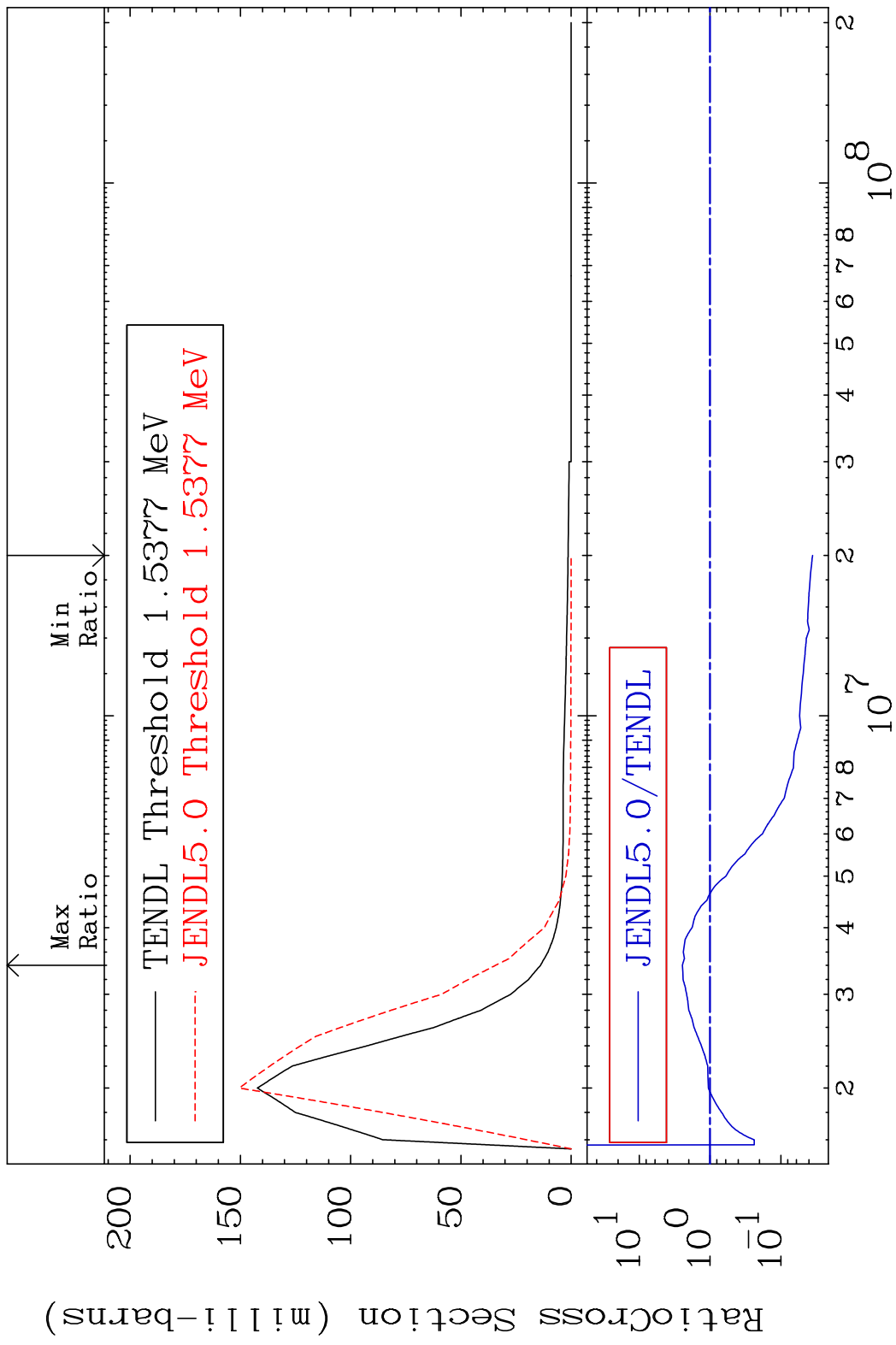
MAT 6837 MT= 63 (n, n') Level 68-Er-166
 Cross Section -22.23 To 9999. %



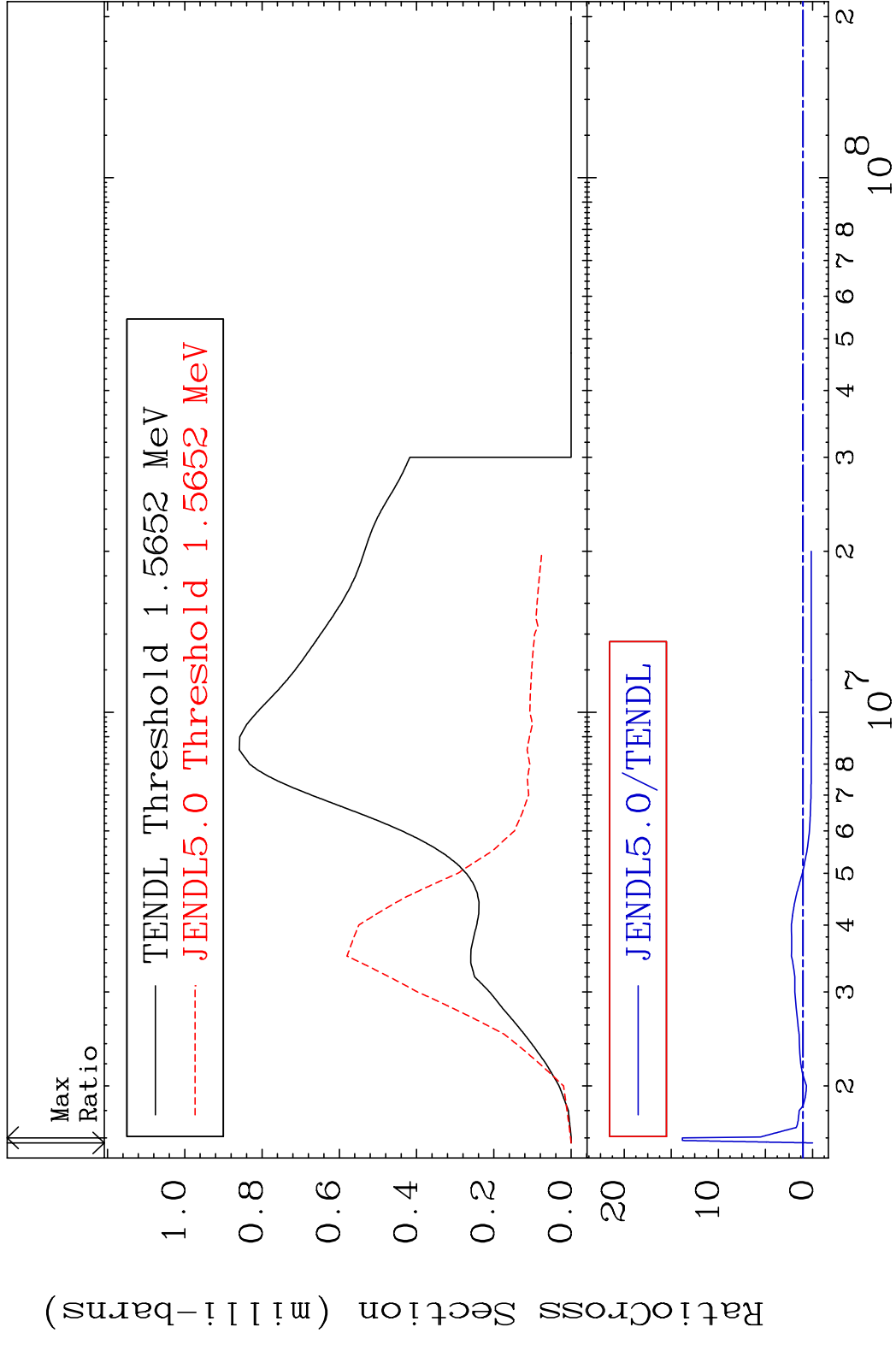
MAT 6837 MT= 64 (n,n') Level 68-Er-166
 Cross Section -80.73 To 151.1 %



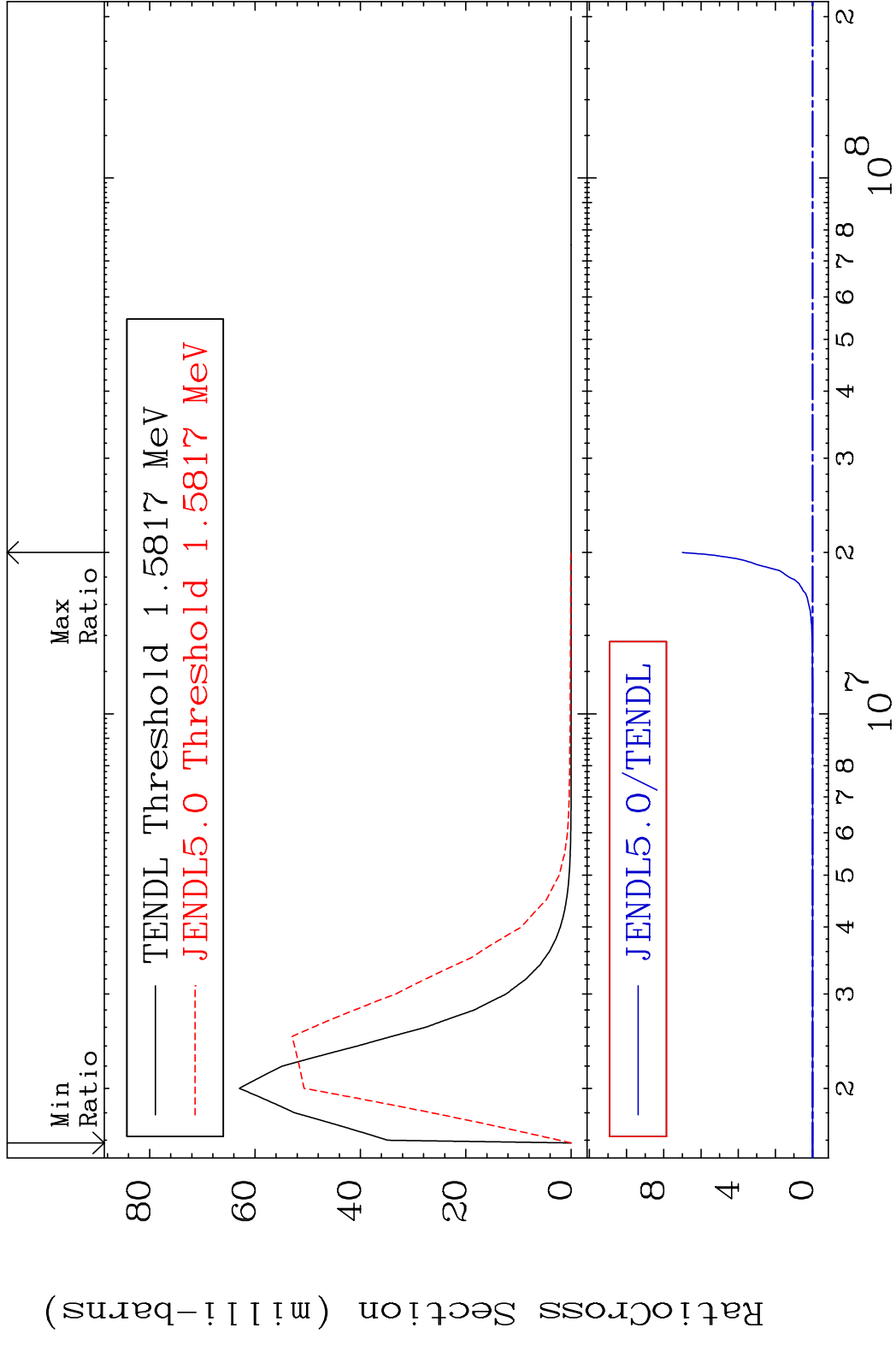
MAT 6837 MT= 65 (n,n') Level 68-Er-166
 Cross Section -96.44 To 146.4 %



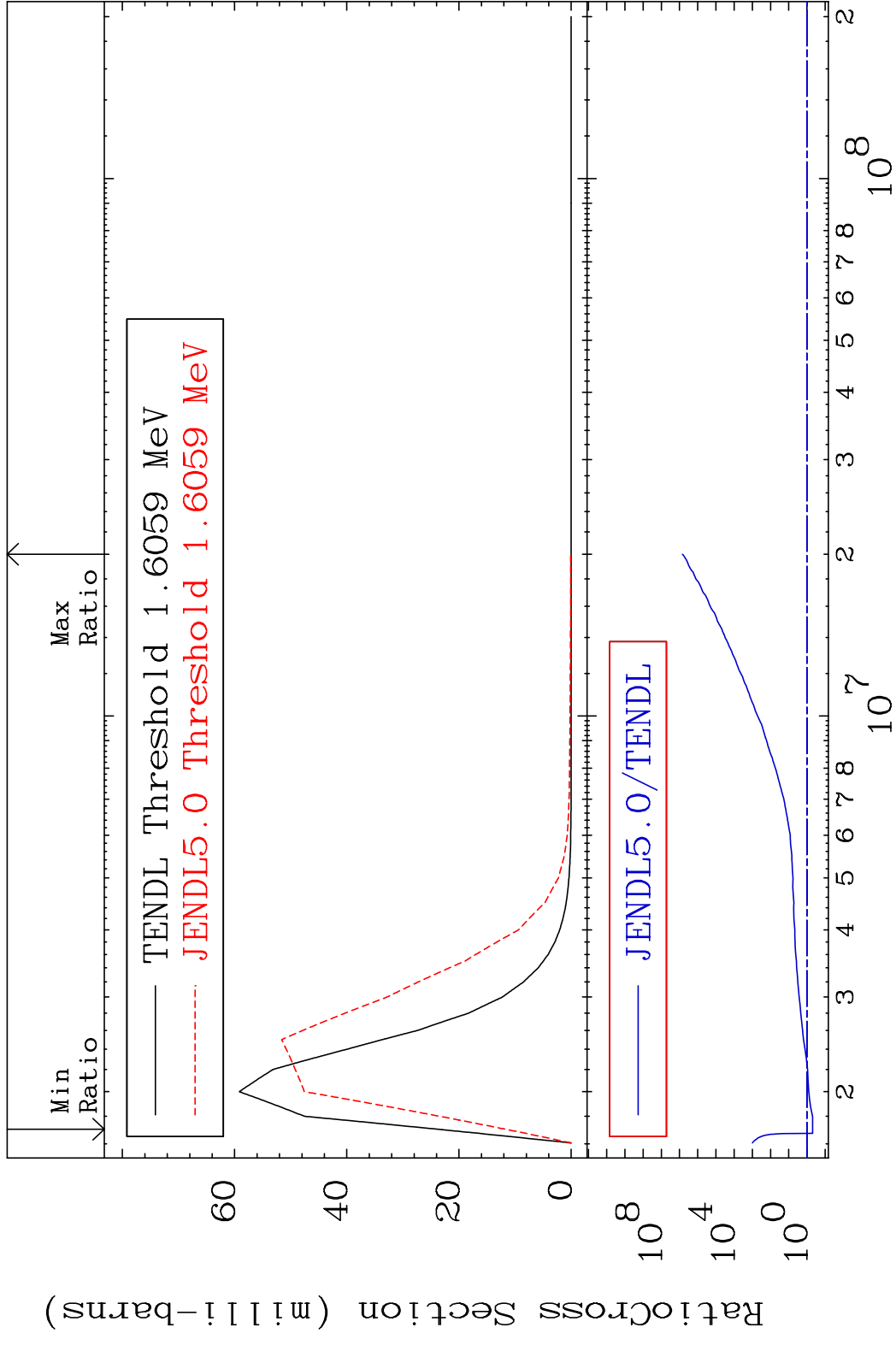
MAT 6837 MT= 66 (n,n') Level 68-Er-166
 Cross Section -100.0 To 1282. %



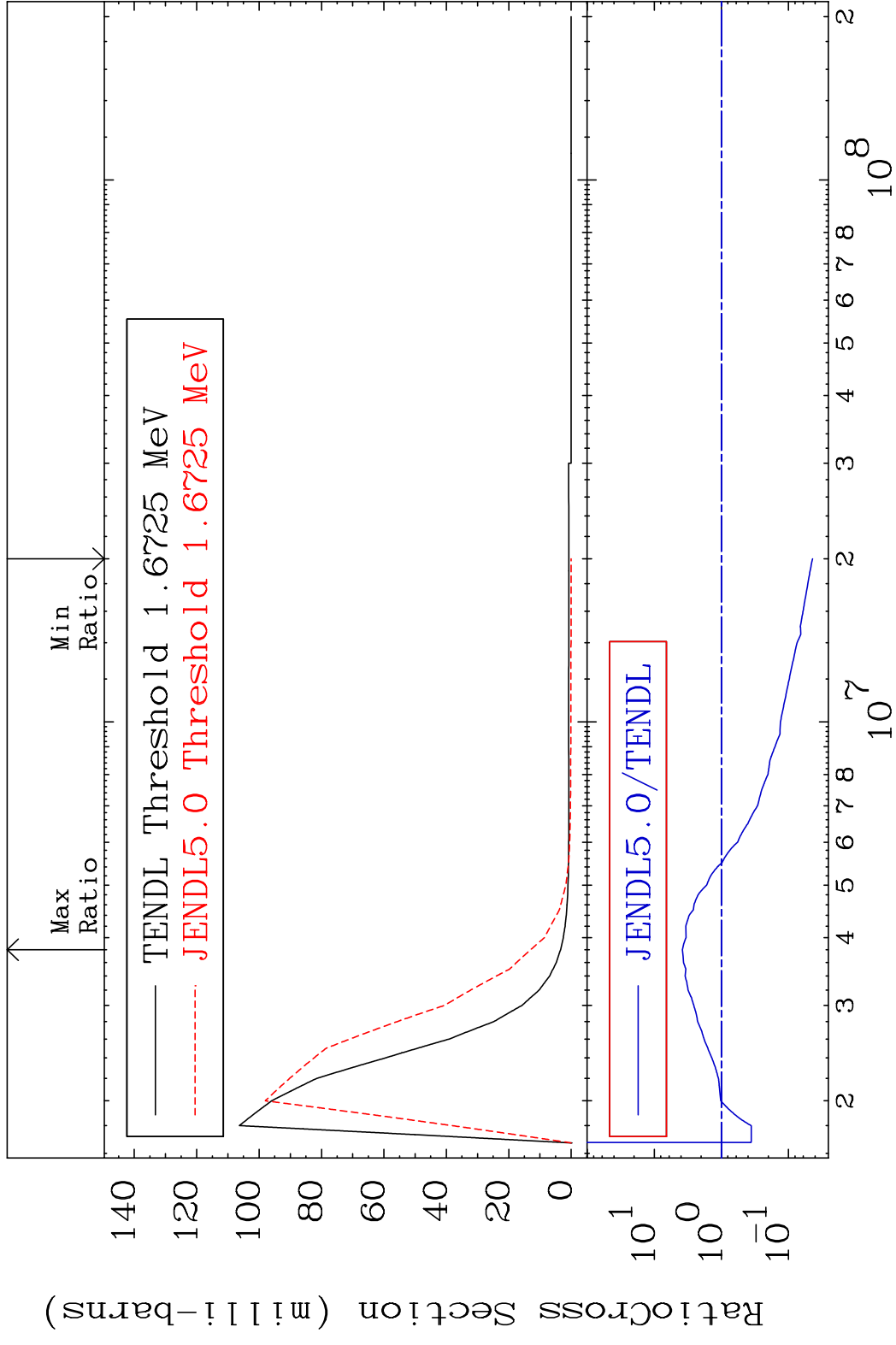
MAT 6837 MT= 67 (n, n') Level 68-Er-166
 Cross Section -100.0 To 9999. %



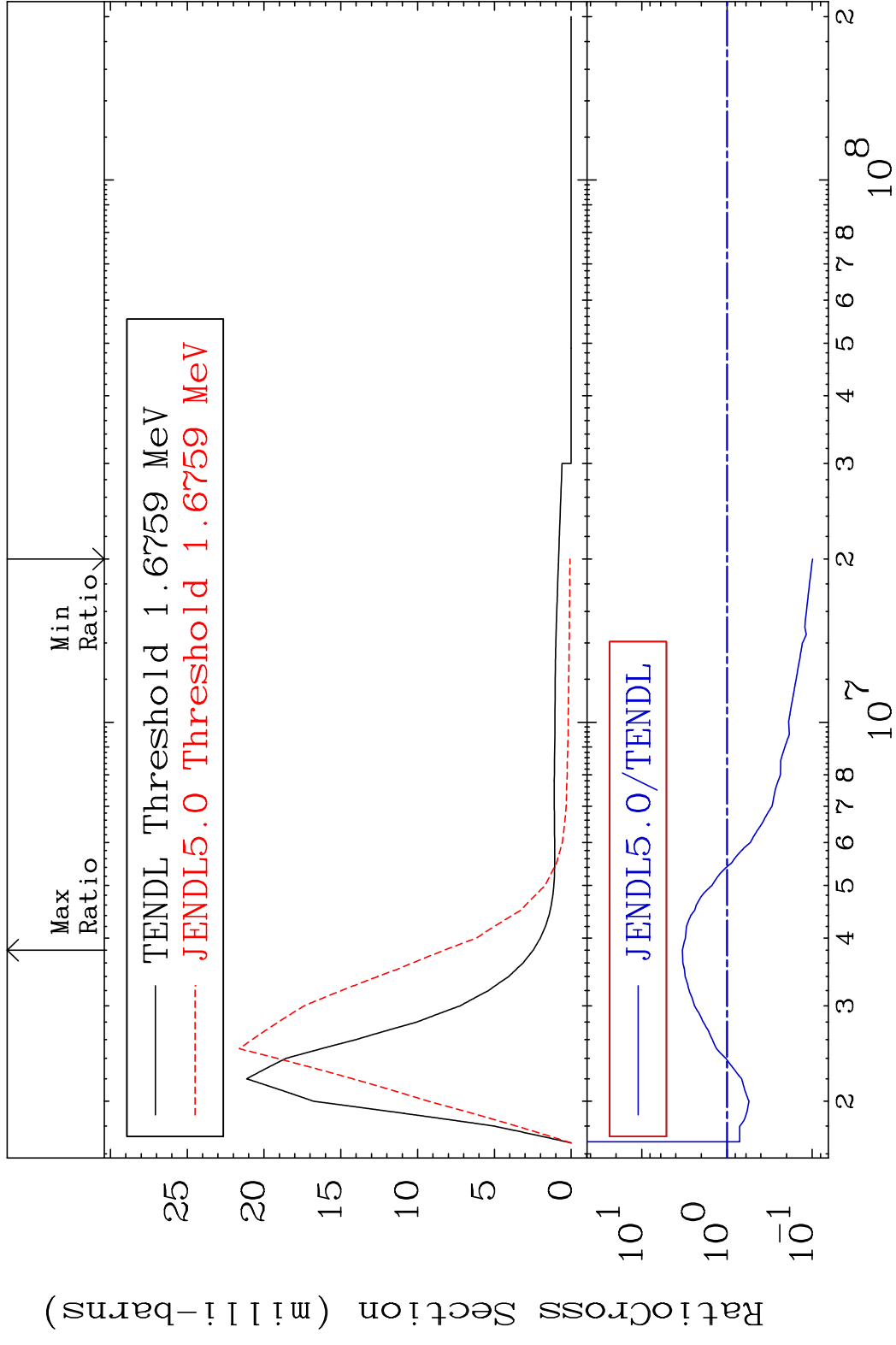
MAT 6837 MT= 68 (n, n') Level 68-Er-166
 Cross Section -50.73 To 9999. %



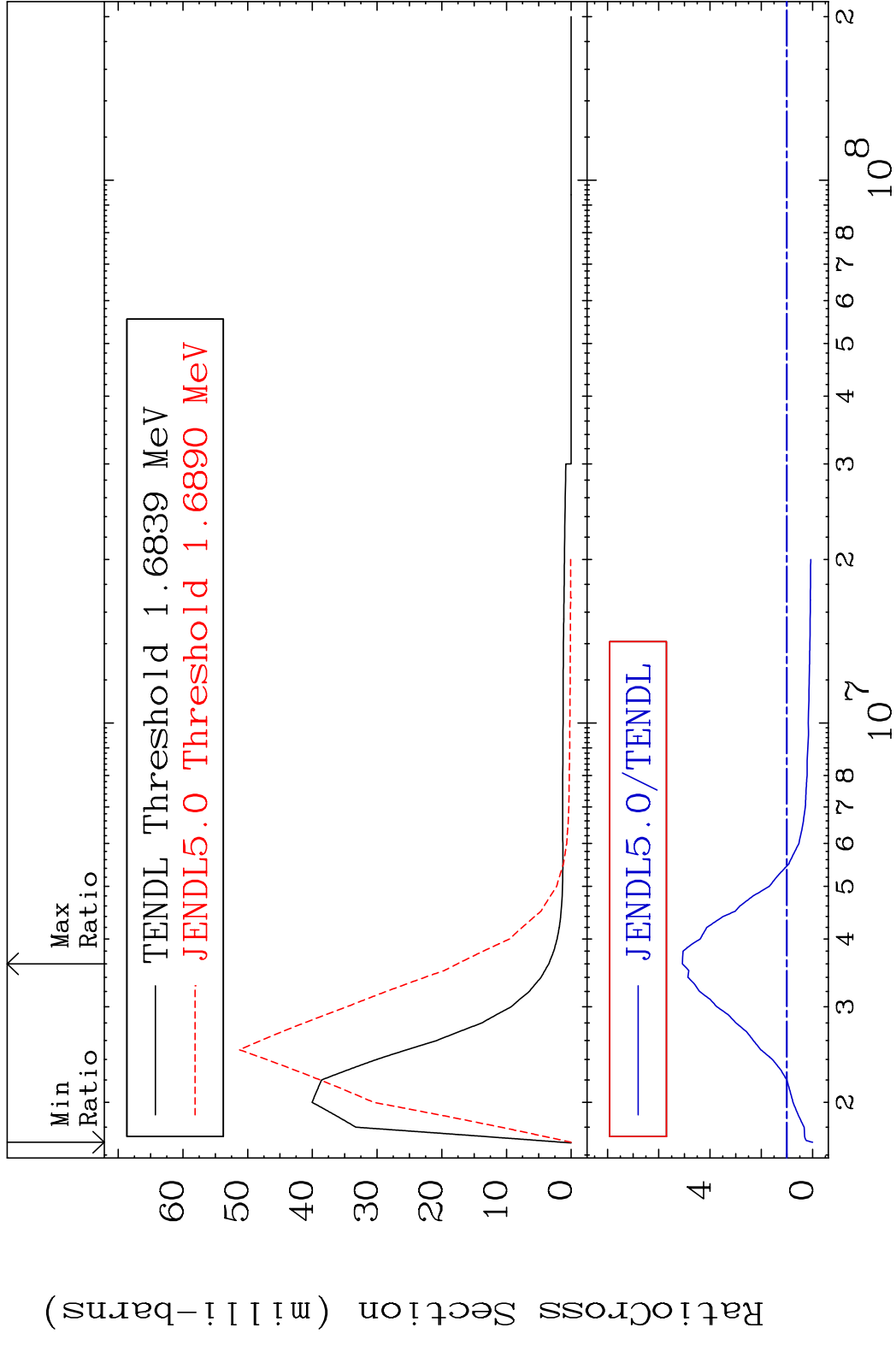
MAT 6837 MT= 69 (n, n') Level 68-Er-166
 Cross Section -95.62 To 281.6 %



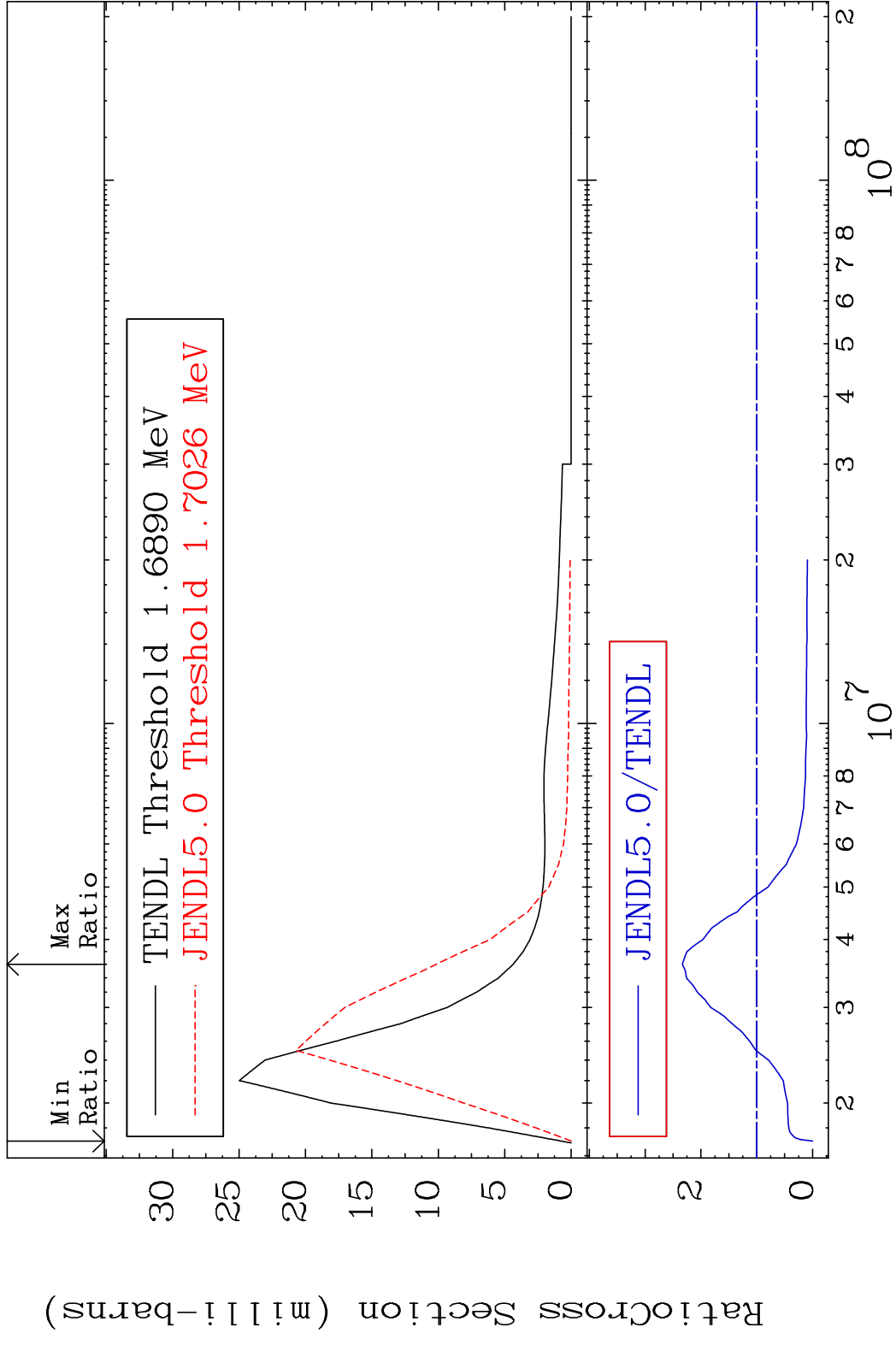
MAT 6837 MT= 70 (n, n') Level 68-Er-166
 Cross Section -90.08 To 234.0 %



MAT 6837 MT= 71 (n, n') Level 68-Er-166
 Cross Section -100.0 To 408.0 %

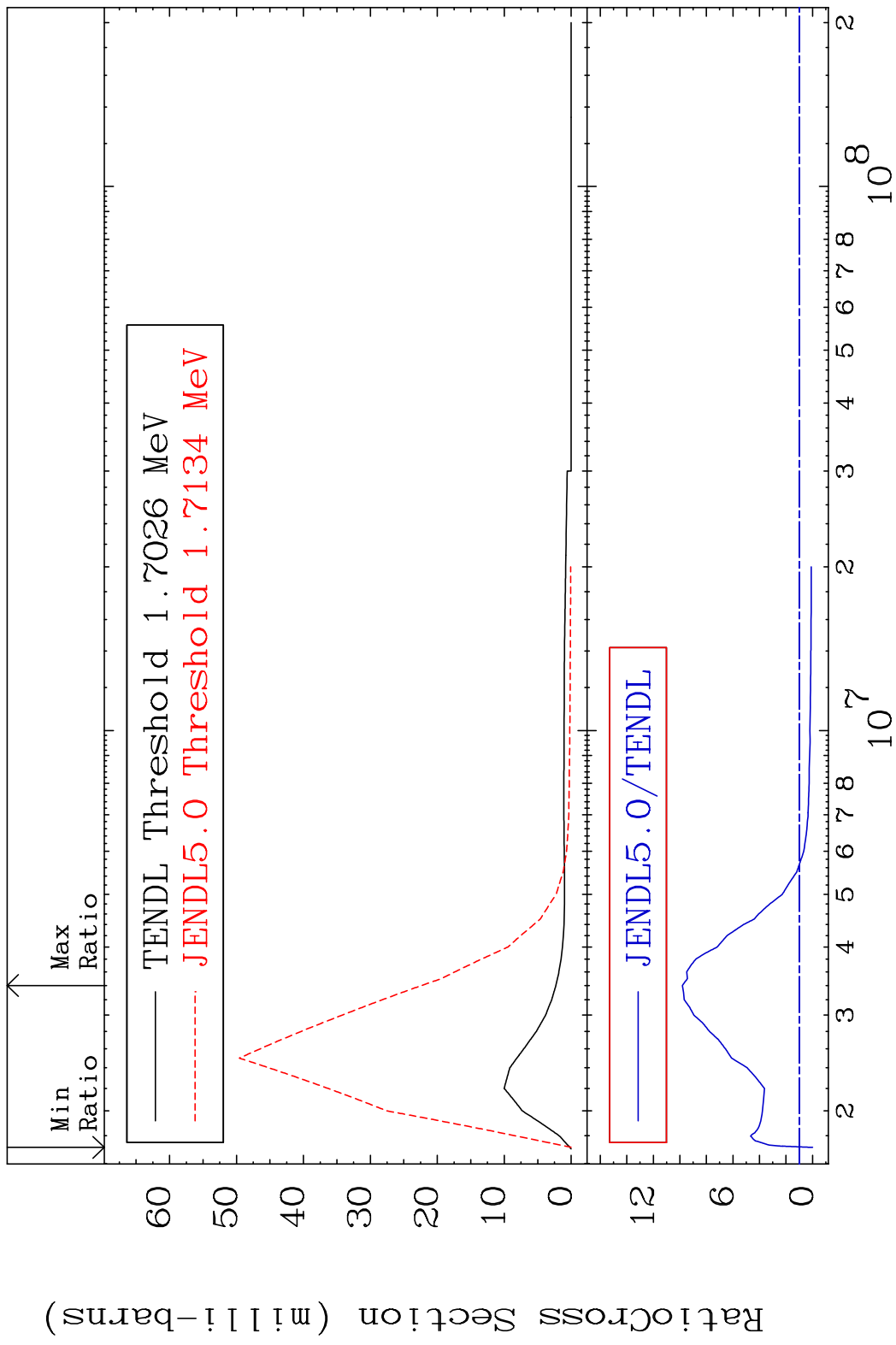


MAT 6837 MT= 72 (n, n') Level 68-Er-166
 Cross Section -100.0 To 133.3 %

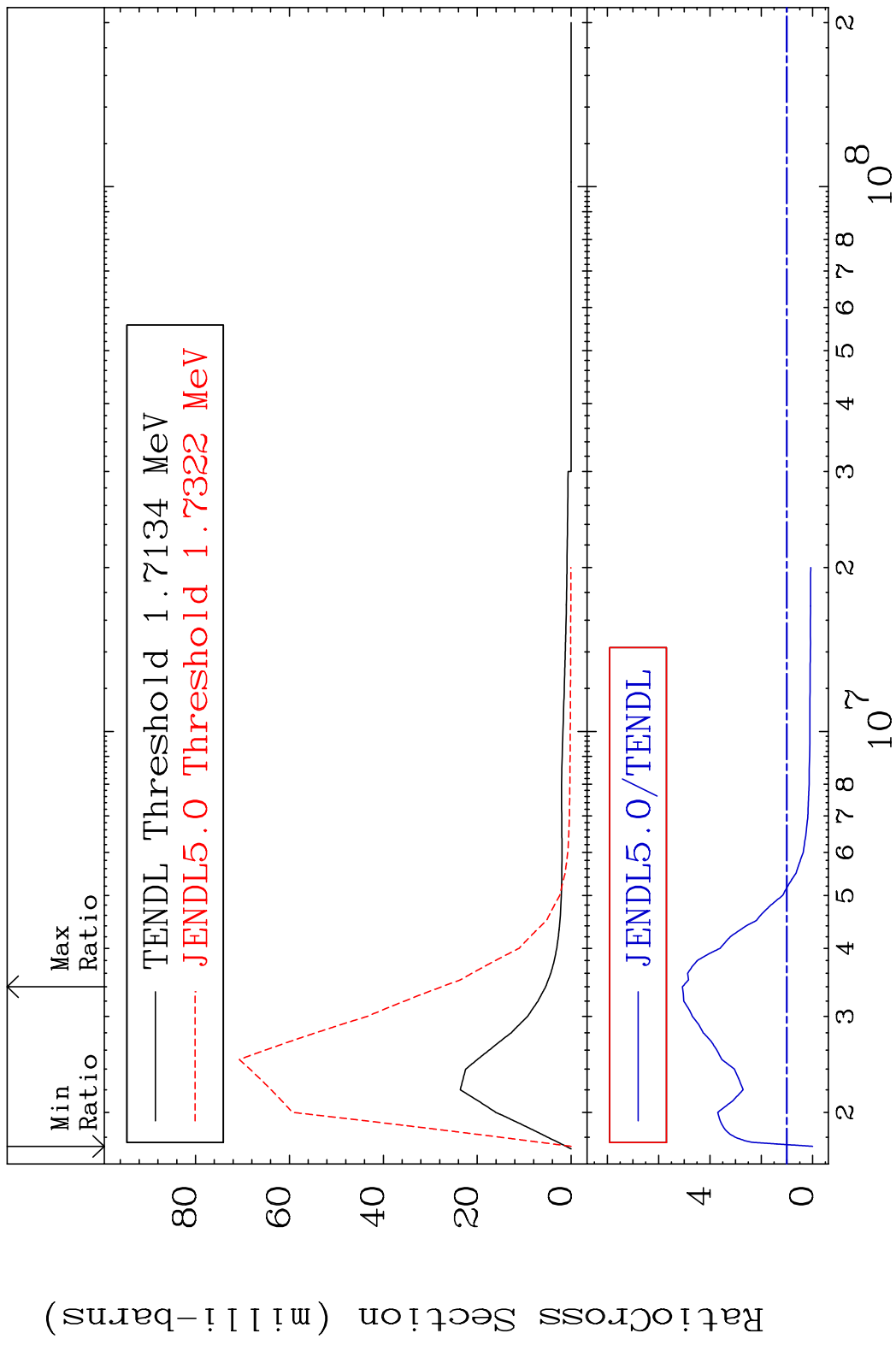


30 Incident Energy (eV) 68-Er-166

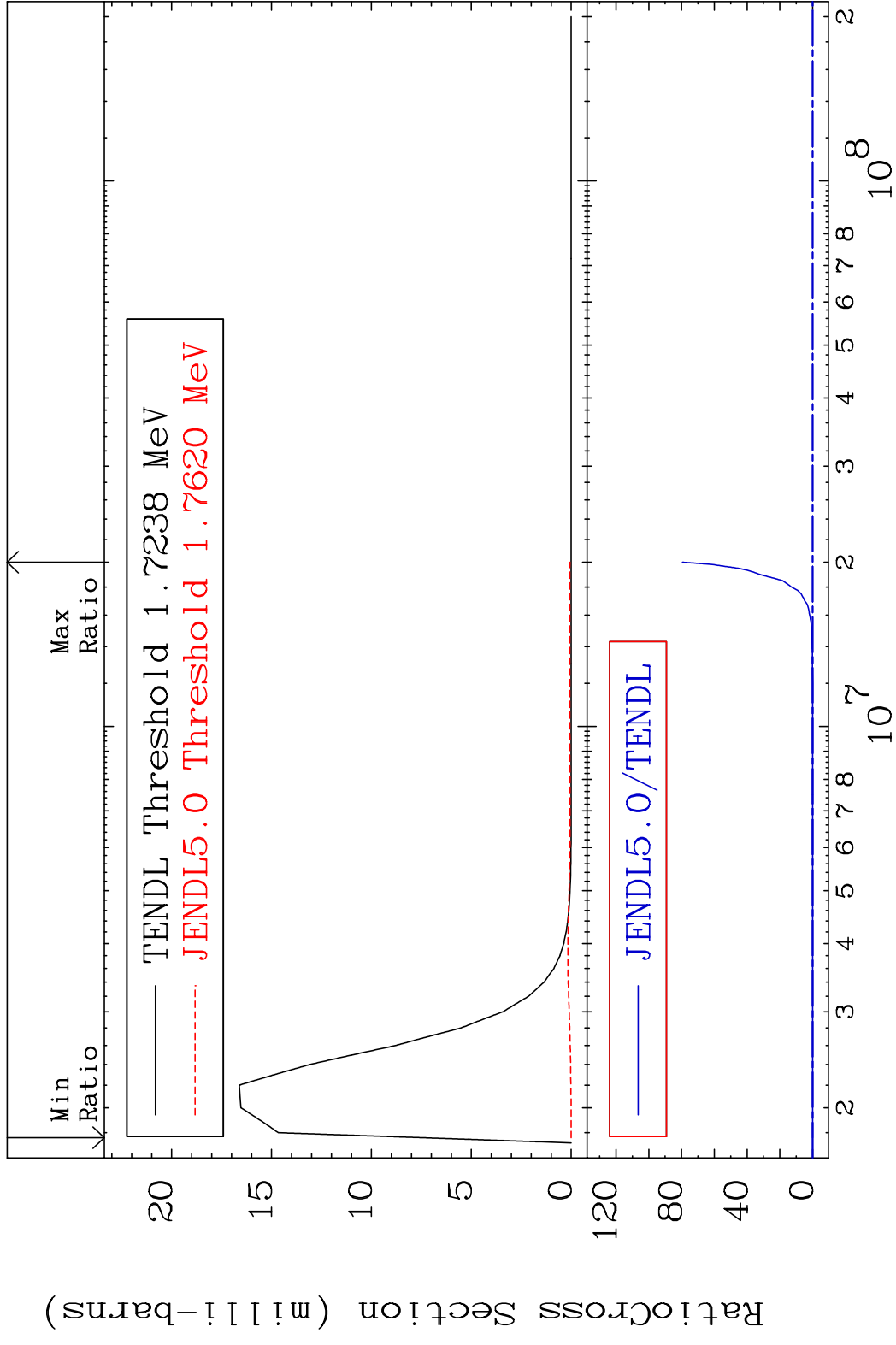
MAT 6837 MT= 73 (n, n') Level 68-Er-166
 Cross Section -100.0 To 881.2 %



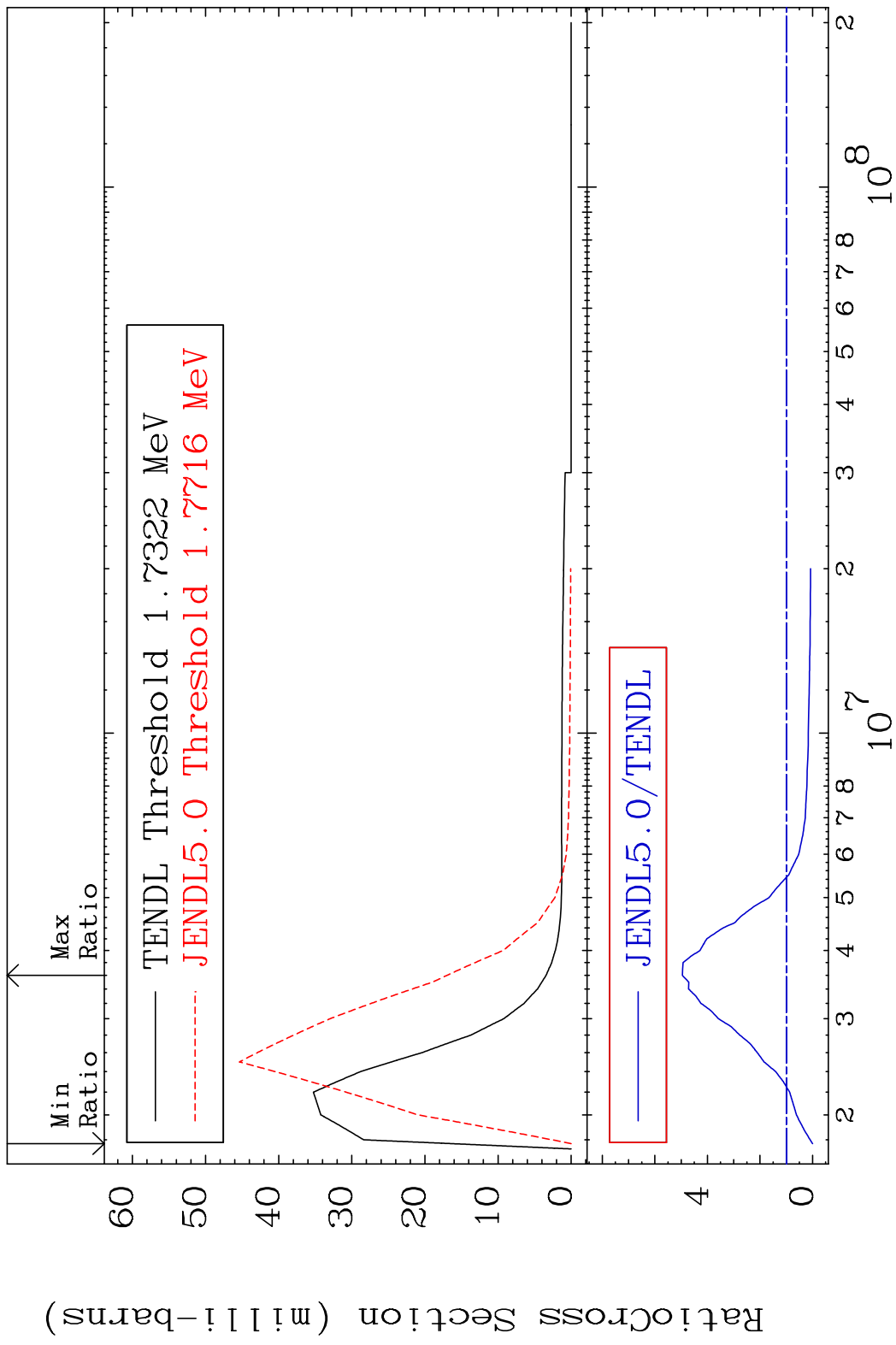
MAT 6837 MT= 74 (n, n') Level 68-Er-166
 Cross Section -100.0 To 407.4 %



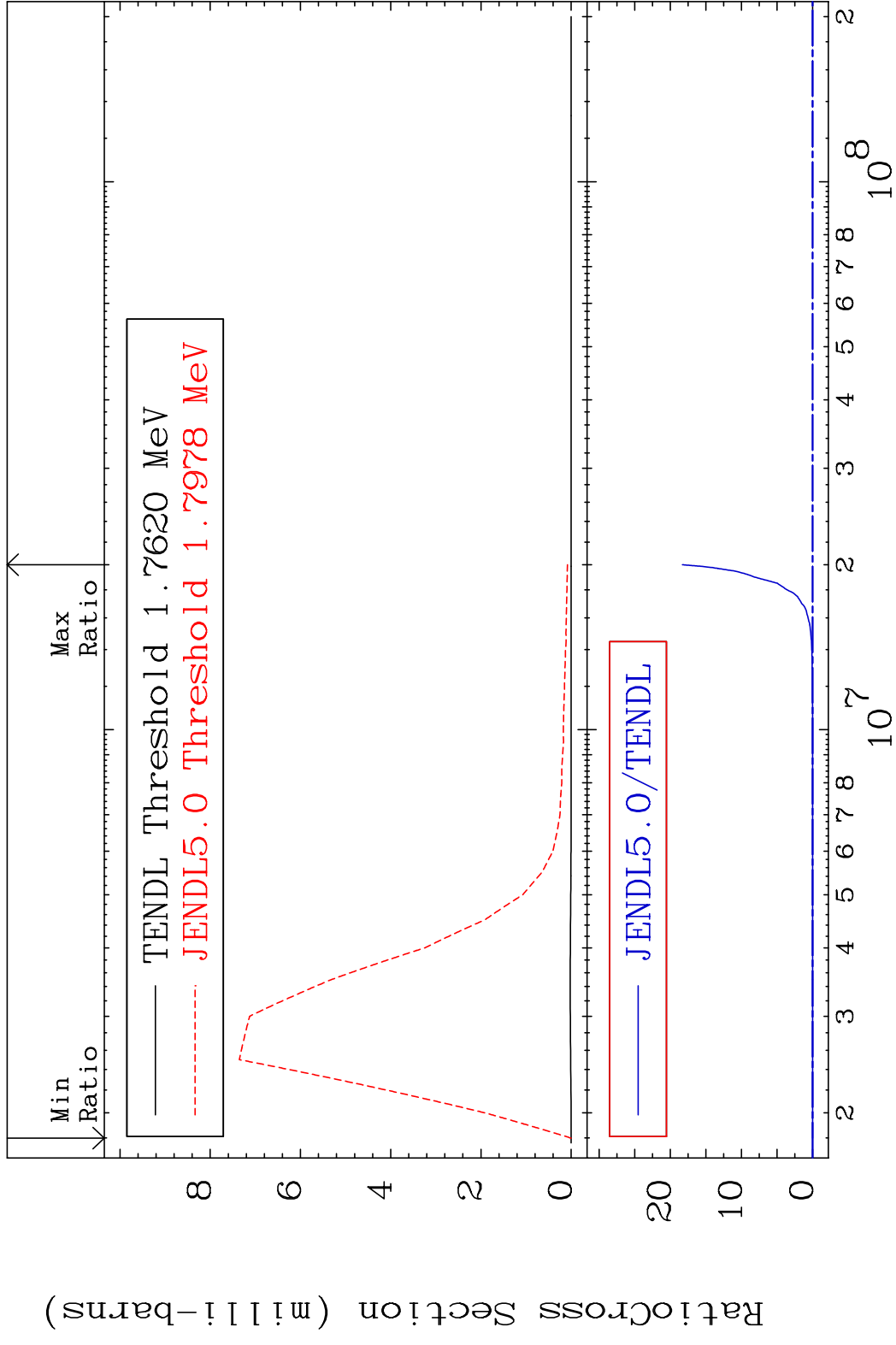
MAT 6837 MT= 75 (n, n') Level 68-Er-166
 Cross Section -100.0 To 9999. %



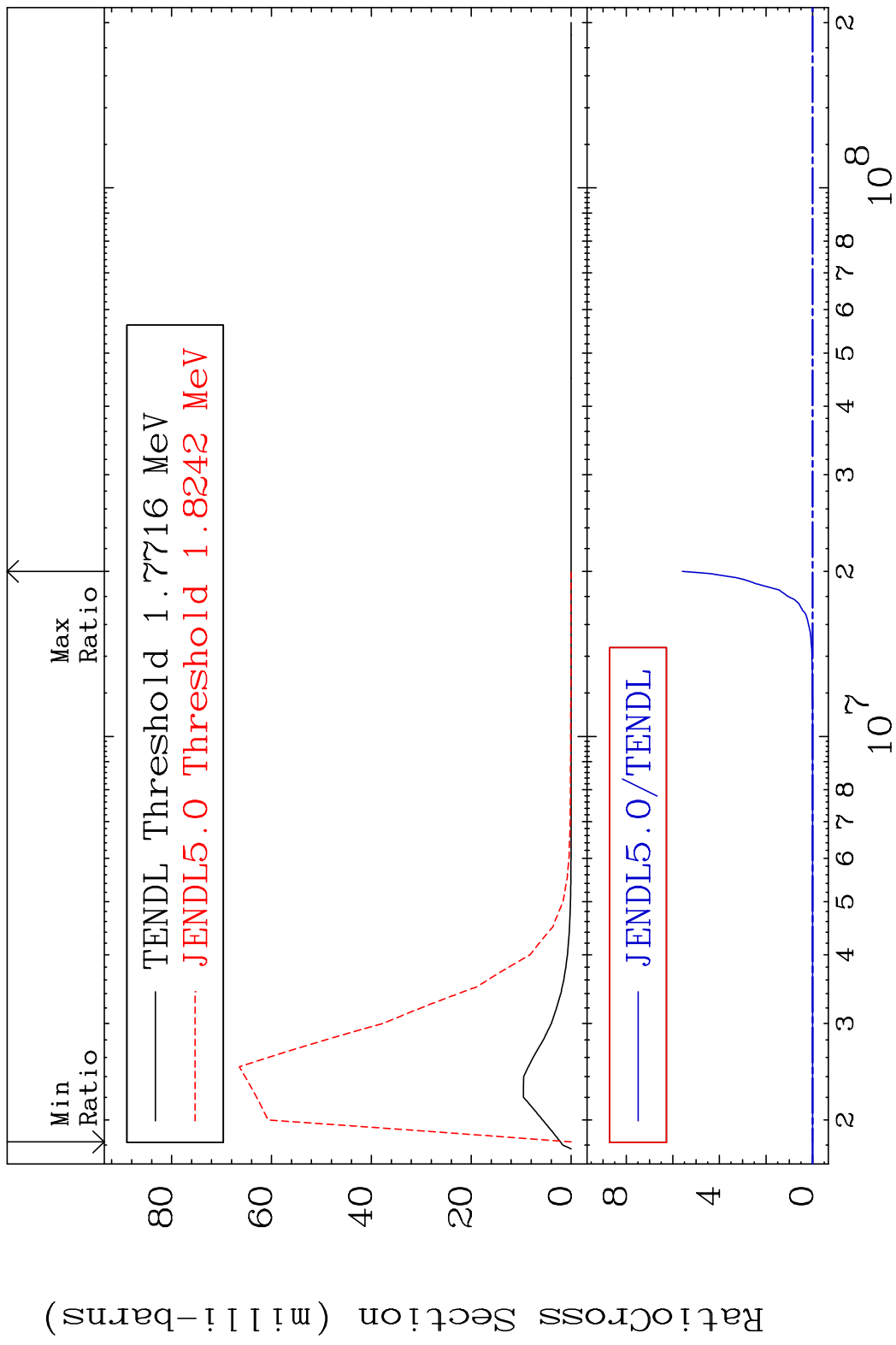
MAT 6837 MT= 76 (n, n') Level 68-Er-166
 Cross Section -100.0 To 395.4 %



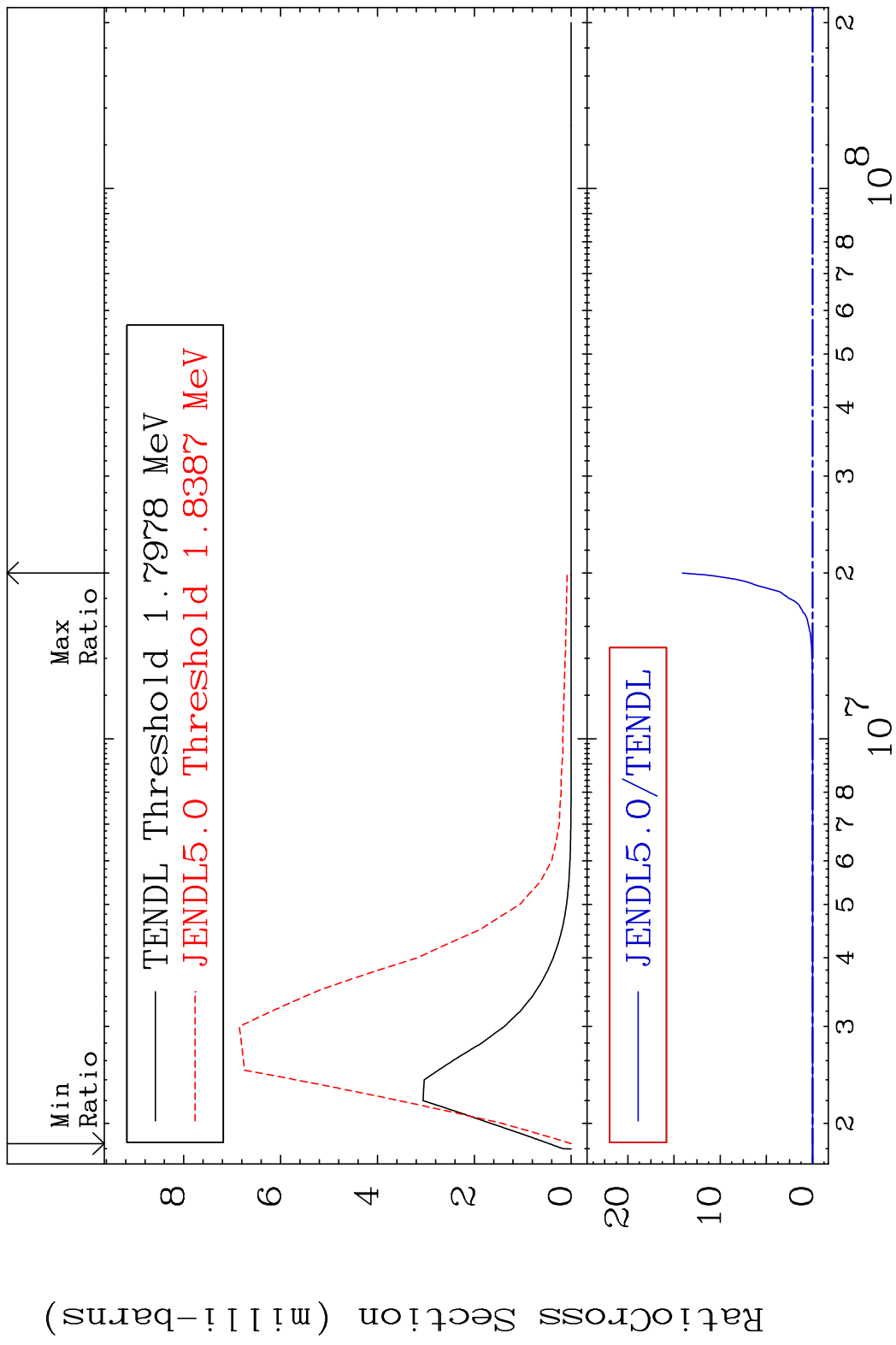
MAT 6837 MT= 77 (n, n') Level 68-Er-166
 Cross Section -100.0 To 9999. %



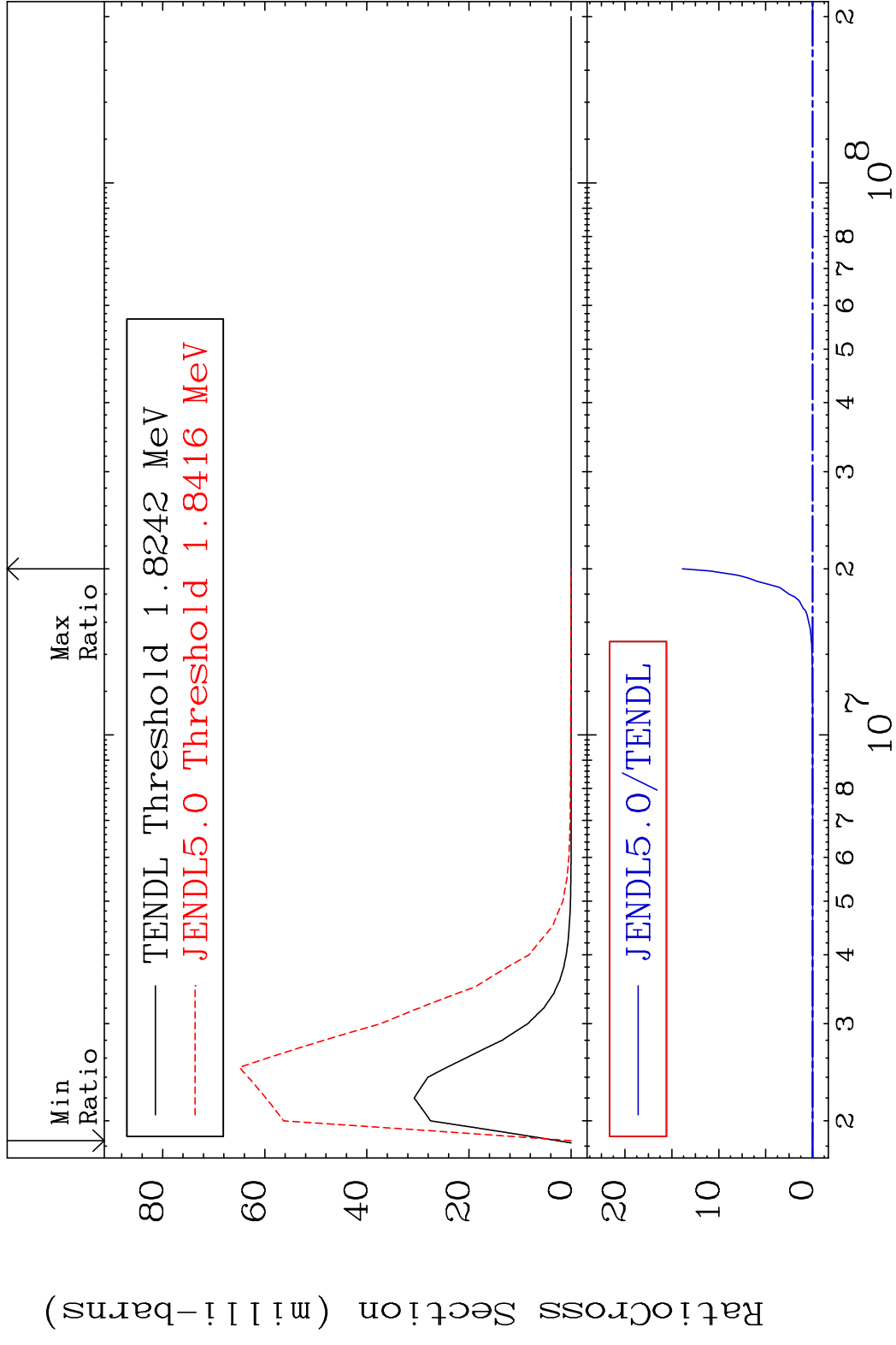
MAT 6837 MT= 78 (n, n') Level 68-Er-166
 Cross Section -100.0 To 9999. %



MAT 6837 MT= 79 (n, n') Level 68-Er-166
 Cross Section -100.0 To 9999. %



MAT 6837 MT= 80 (n, n') Level 68-Er-166
 Cross Section -100.0 To 9999. %

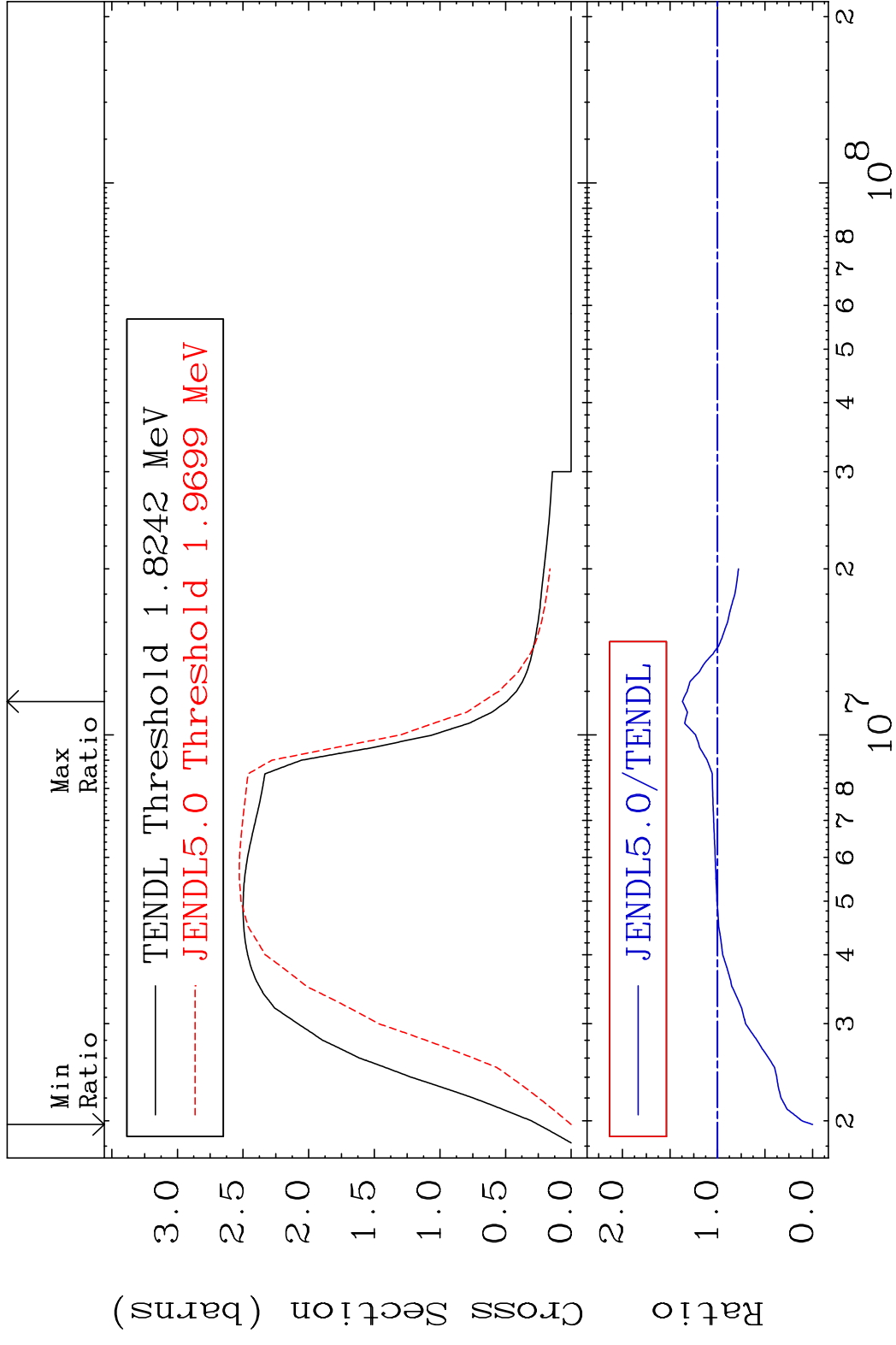


MAT 6837

(n, n') Continuum

68-Er-166

Cross Section -100.0 To 37.02 %

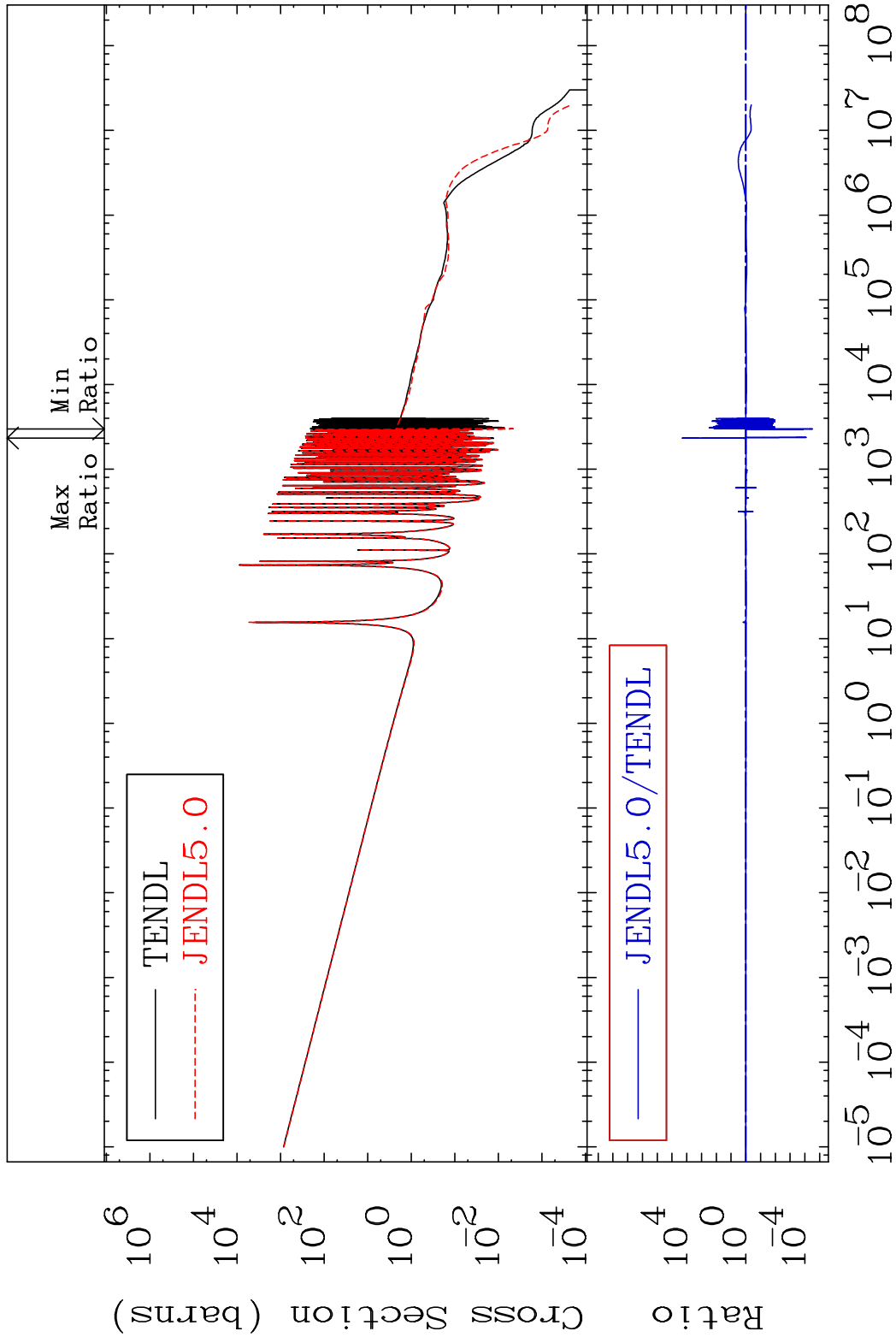


MAT 6837

(n, γ)

68-Er-166

Cross Section -100.0 To 9999. %



40

Incident Energy (eV)

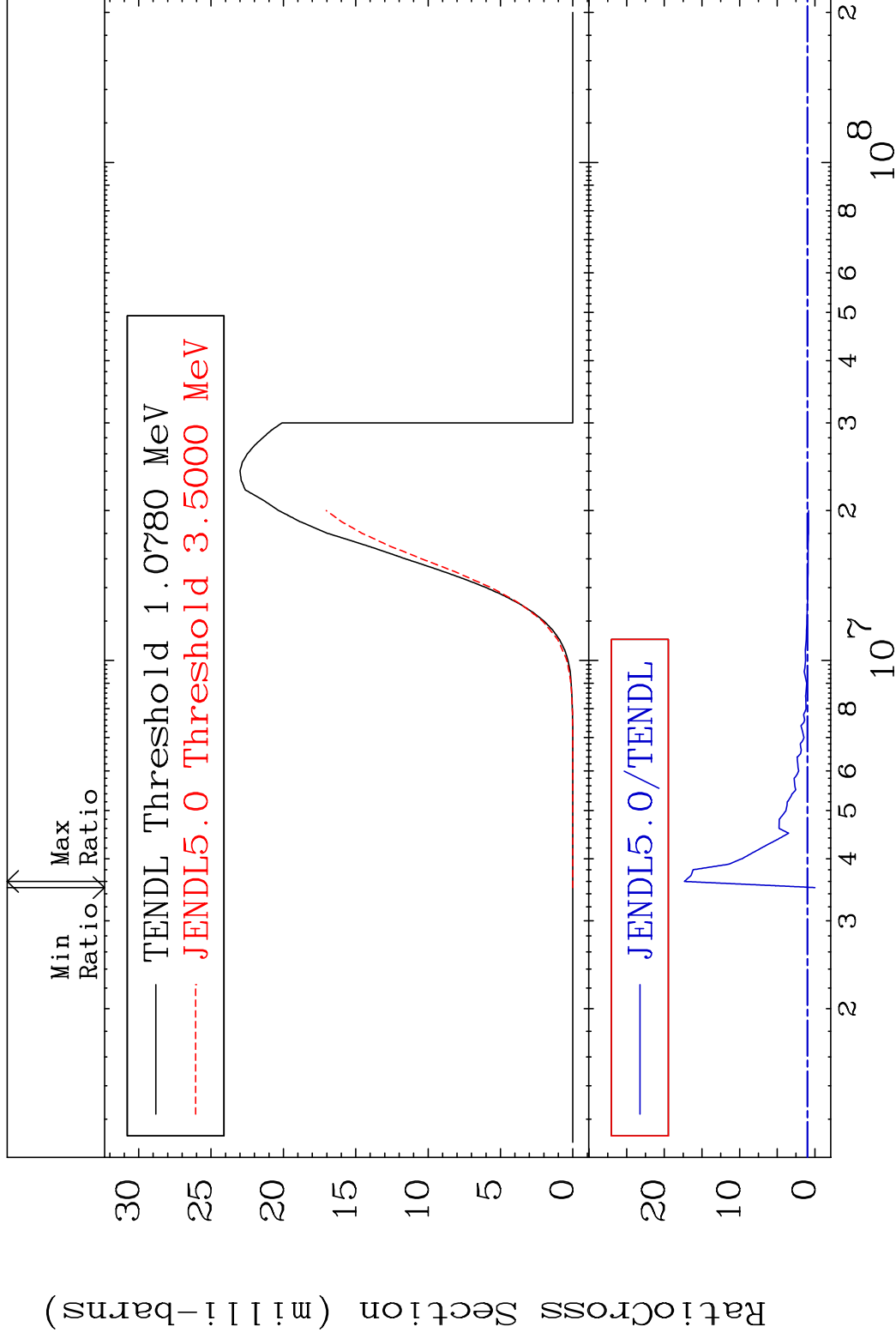
68-Er-166

MAT 6837

(n,p)

68-Er-166

Cross Section -100.0 To 1634. %



41

Incident Energy (eV)

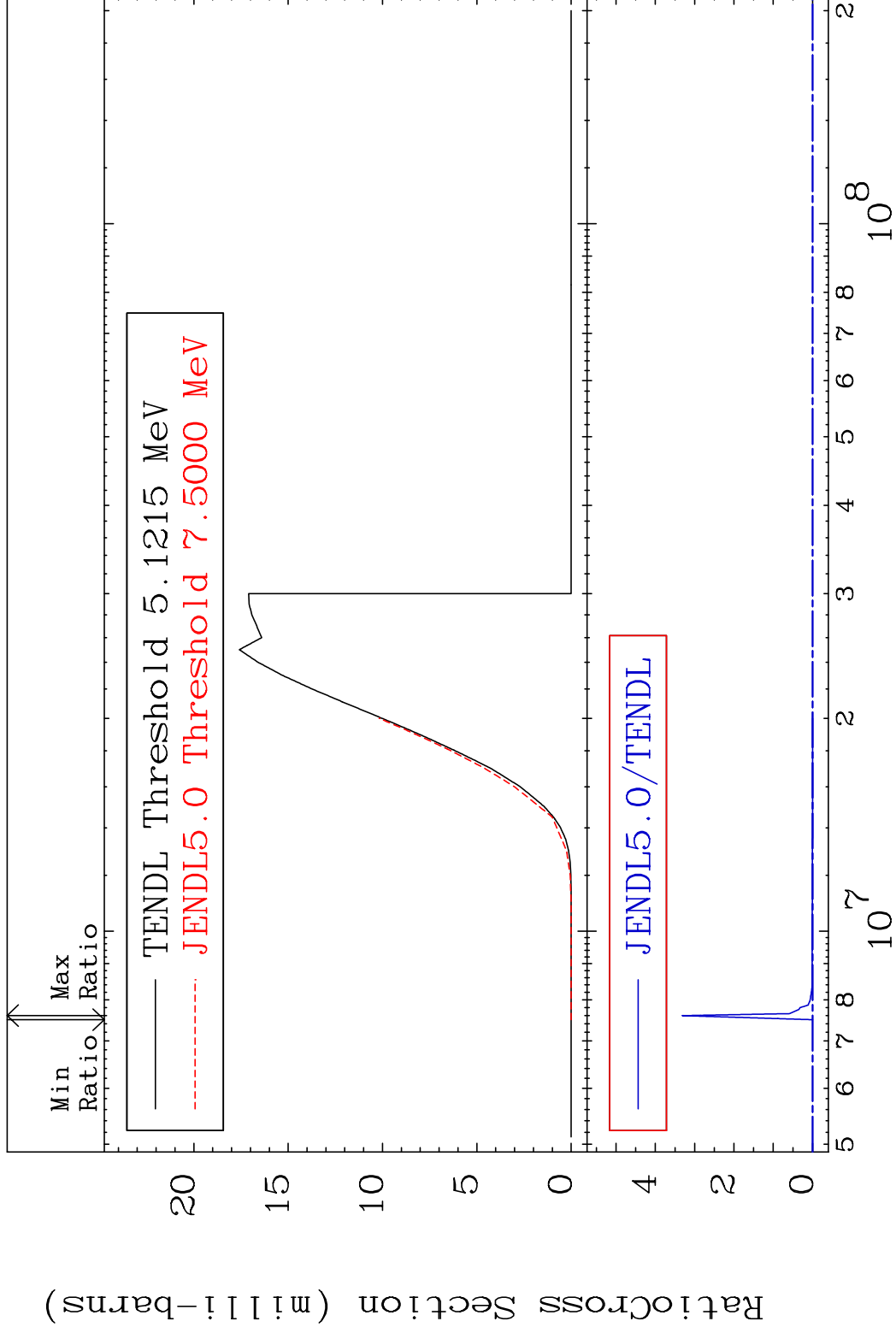
68-Er-166

MAT 6837

(n,d)

68-Er-166

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

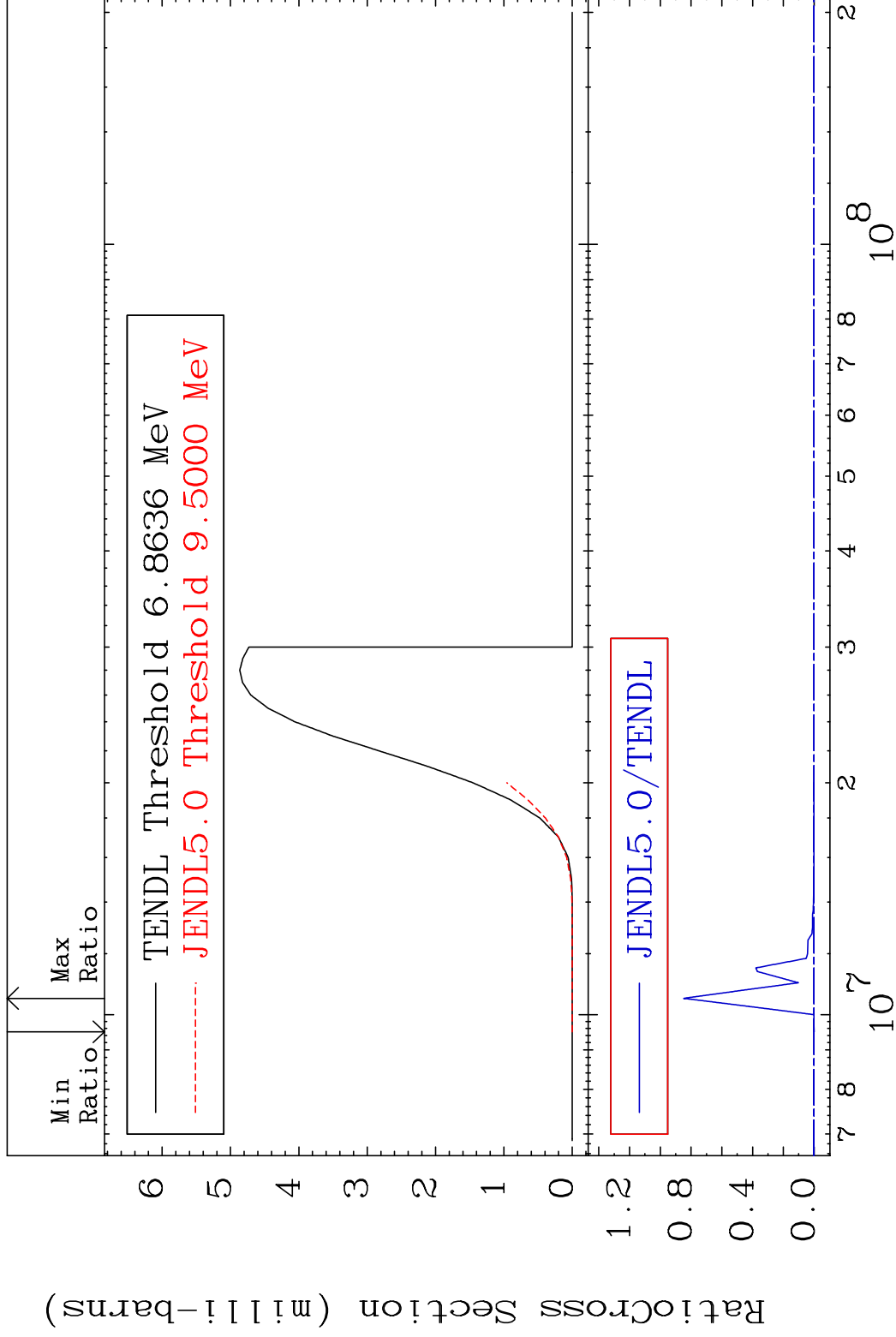
68-Er-166

MAT 6837

(n, t)

68-Er-166

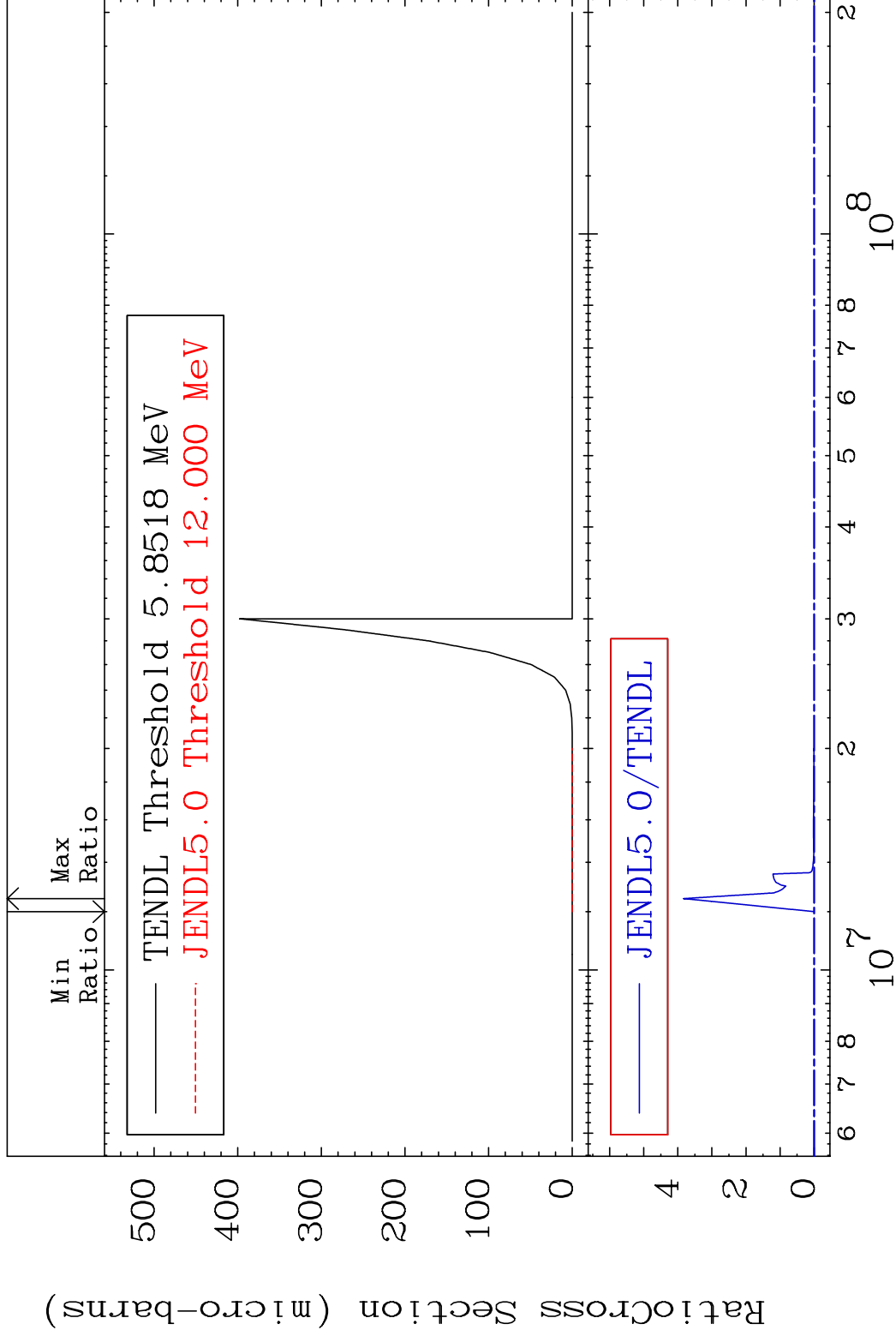
Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

68-Er-166

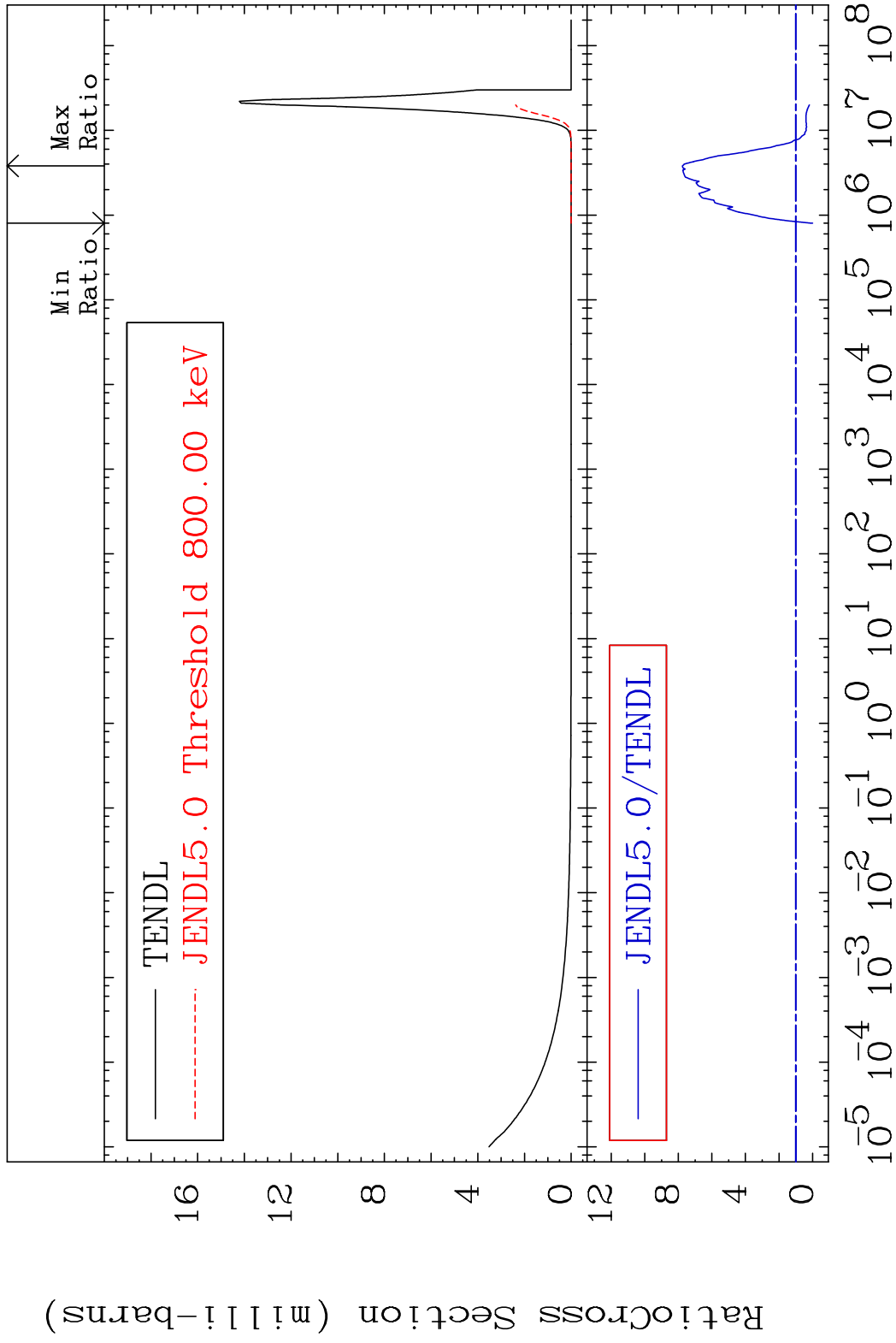


MAT 6837

(n, α)

68-Er-166

Cross Section -100.0 To 675.9 %

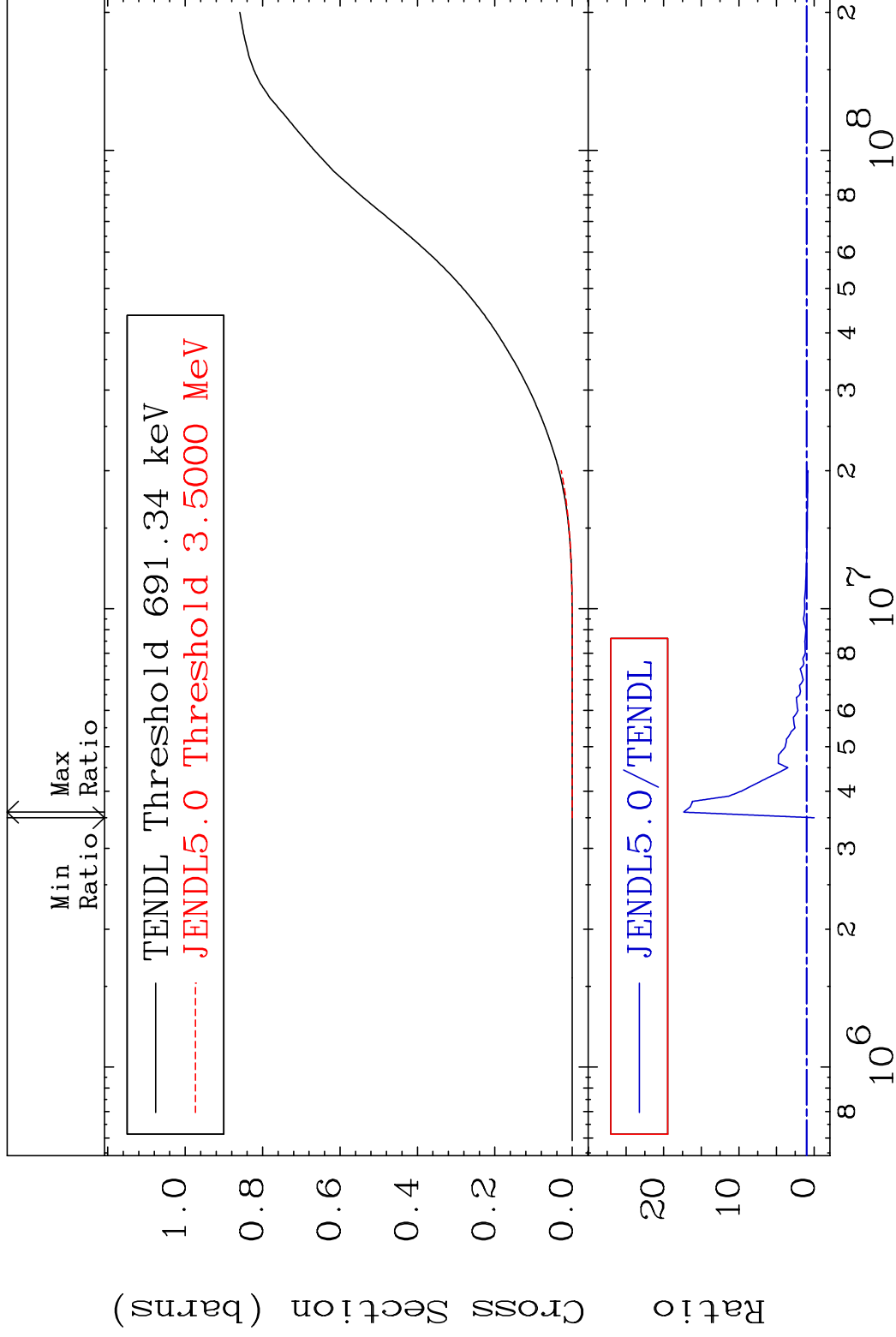


MAT 6837

Hydrogen Production

68-Er-166

Cross Section -100.0 To 1634. %



46

Incident Energy (eV)

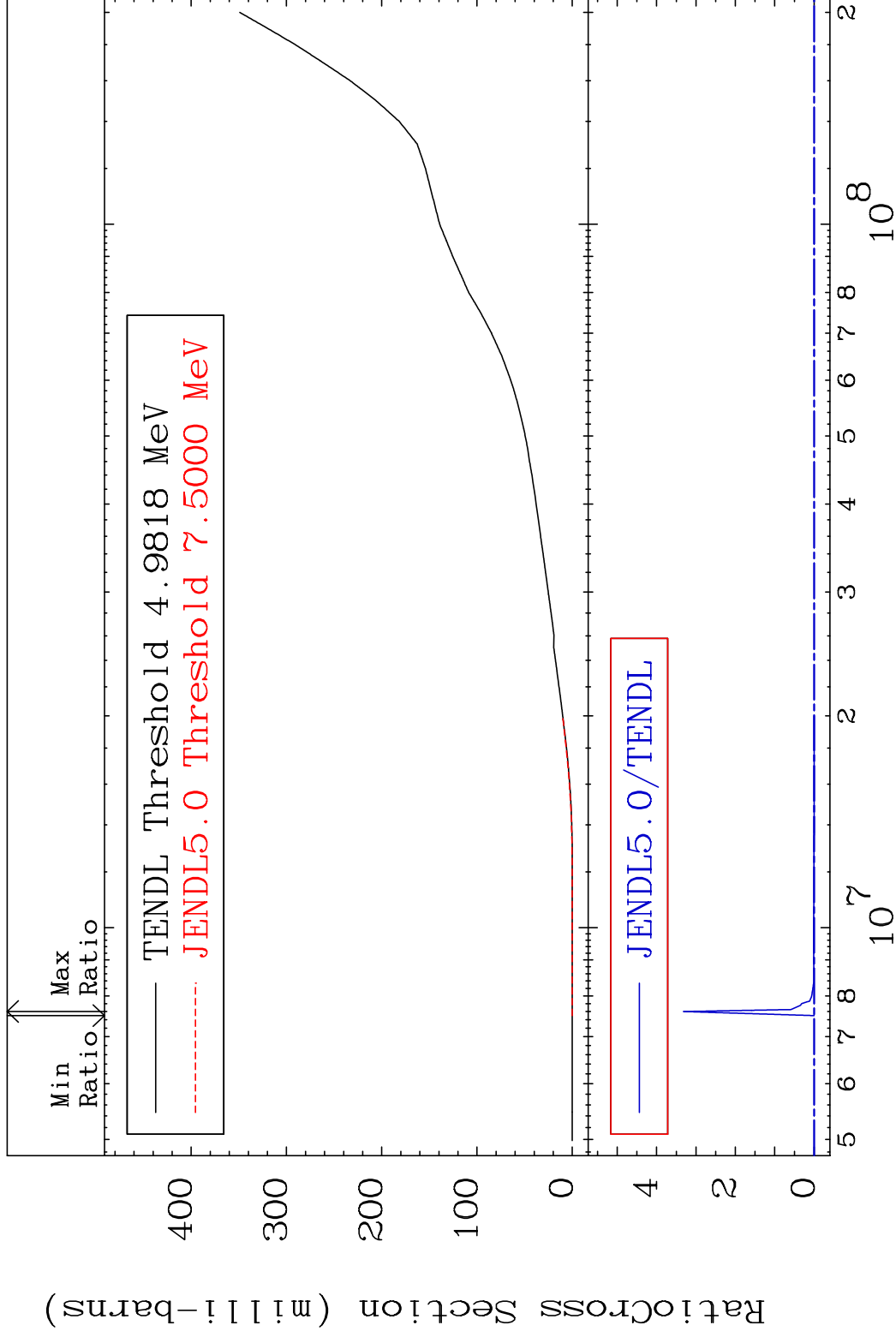
68-Er-166

MAT 6837

Deuterium Production

68-Er-166

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

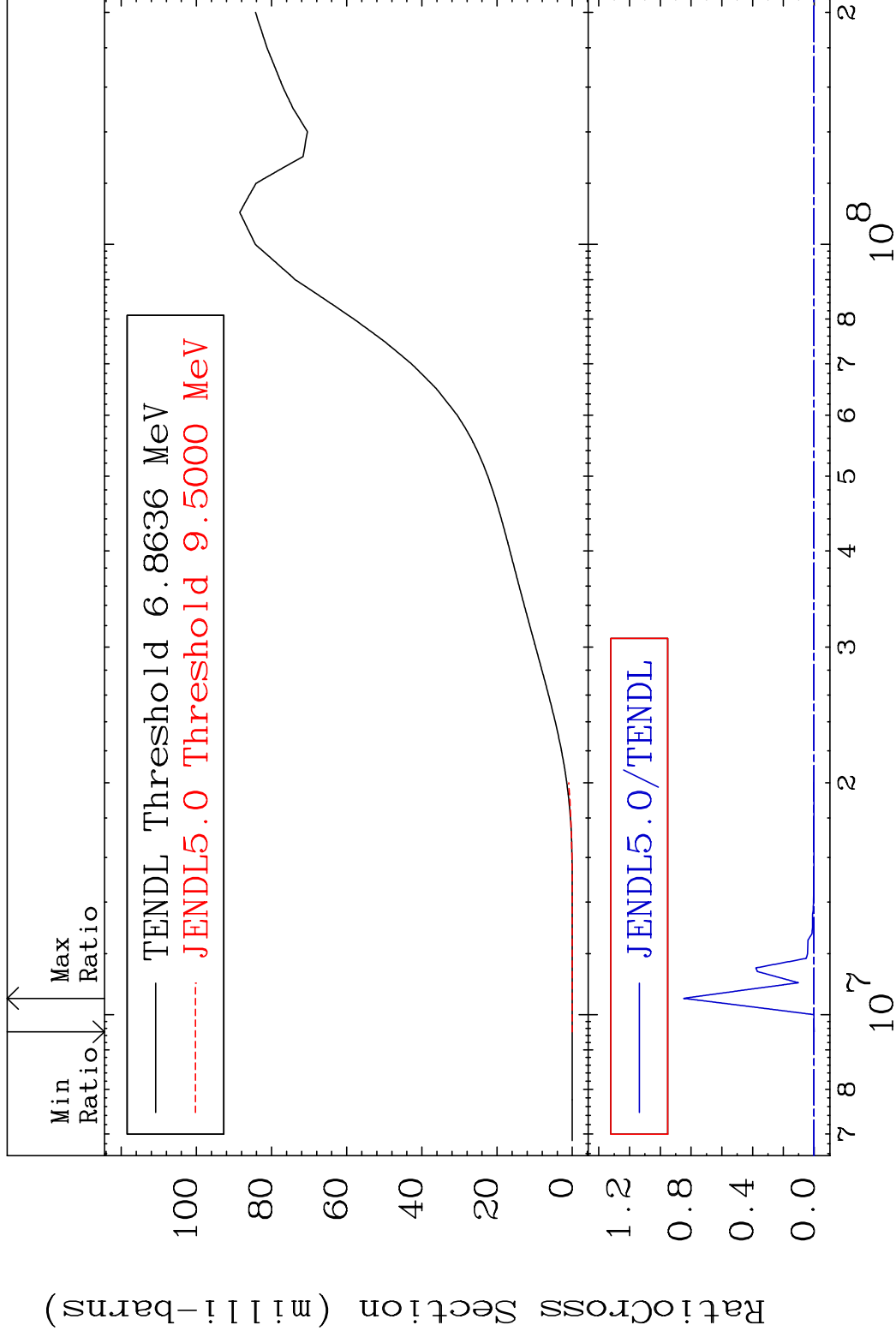
68-Er-166

MAT 6837

Tritium Production

68-Er-166

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

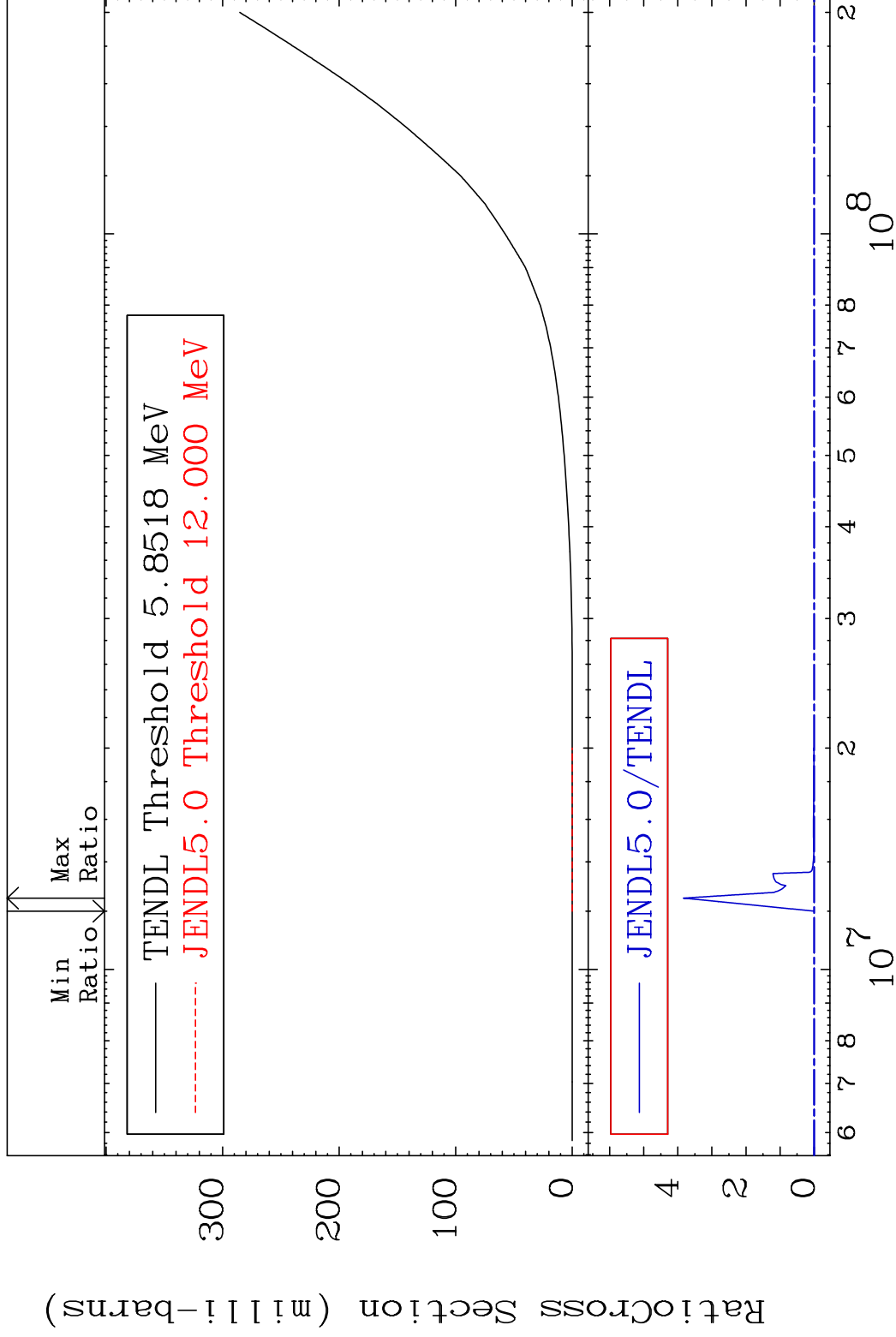
68-Er-166

MAT 6837

He-3 Production

68-Er-166

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

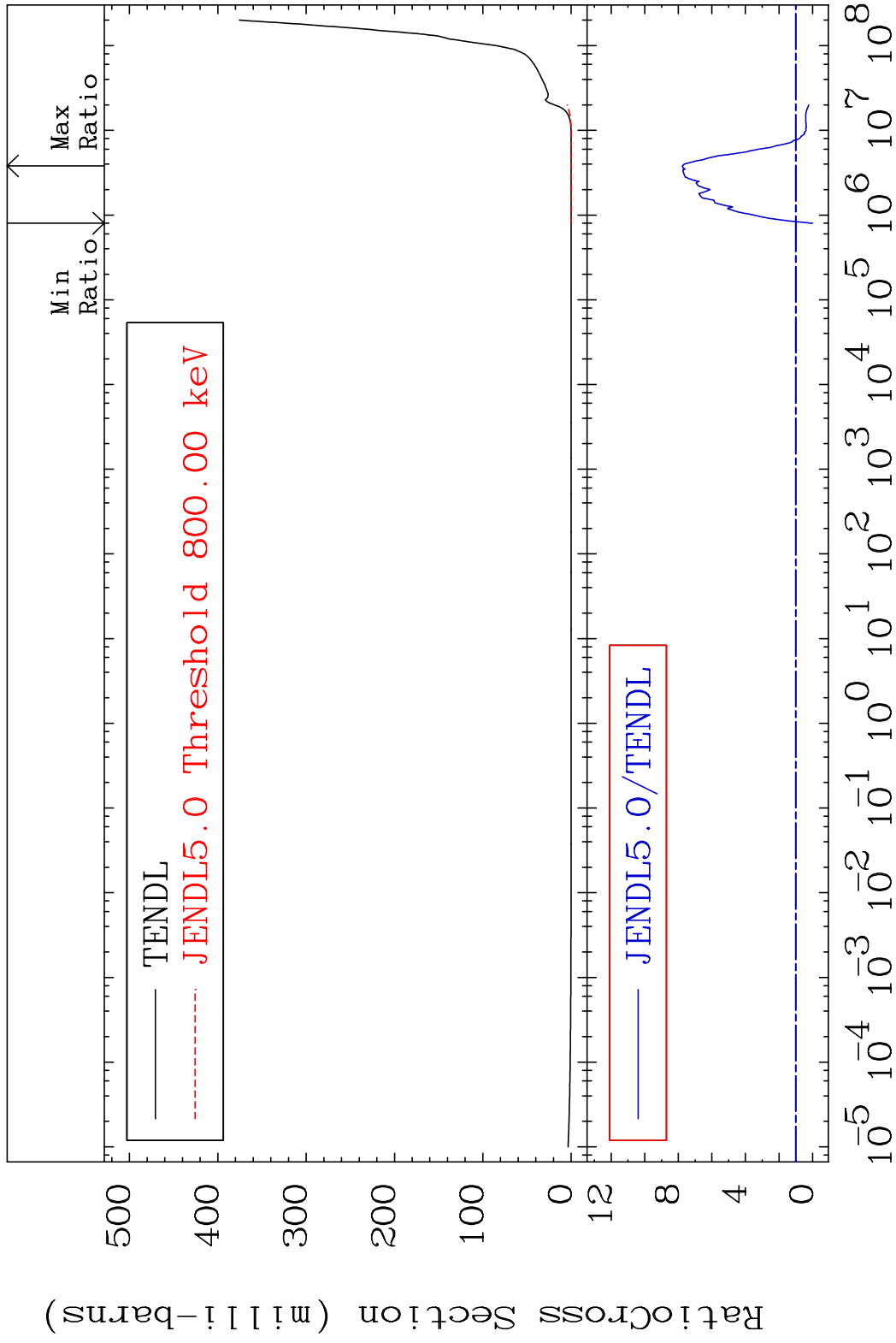
68-Er-166

MAT 6837

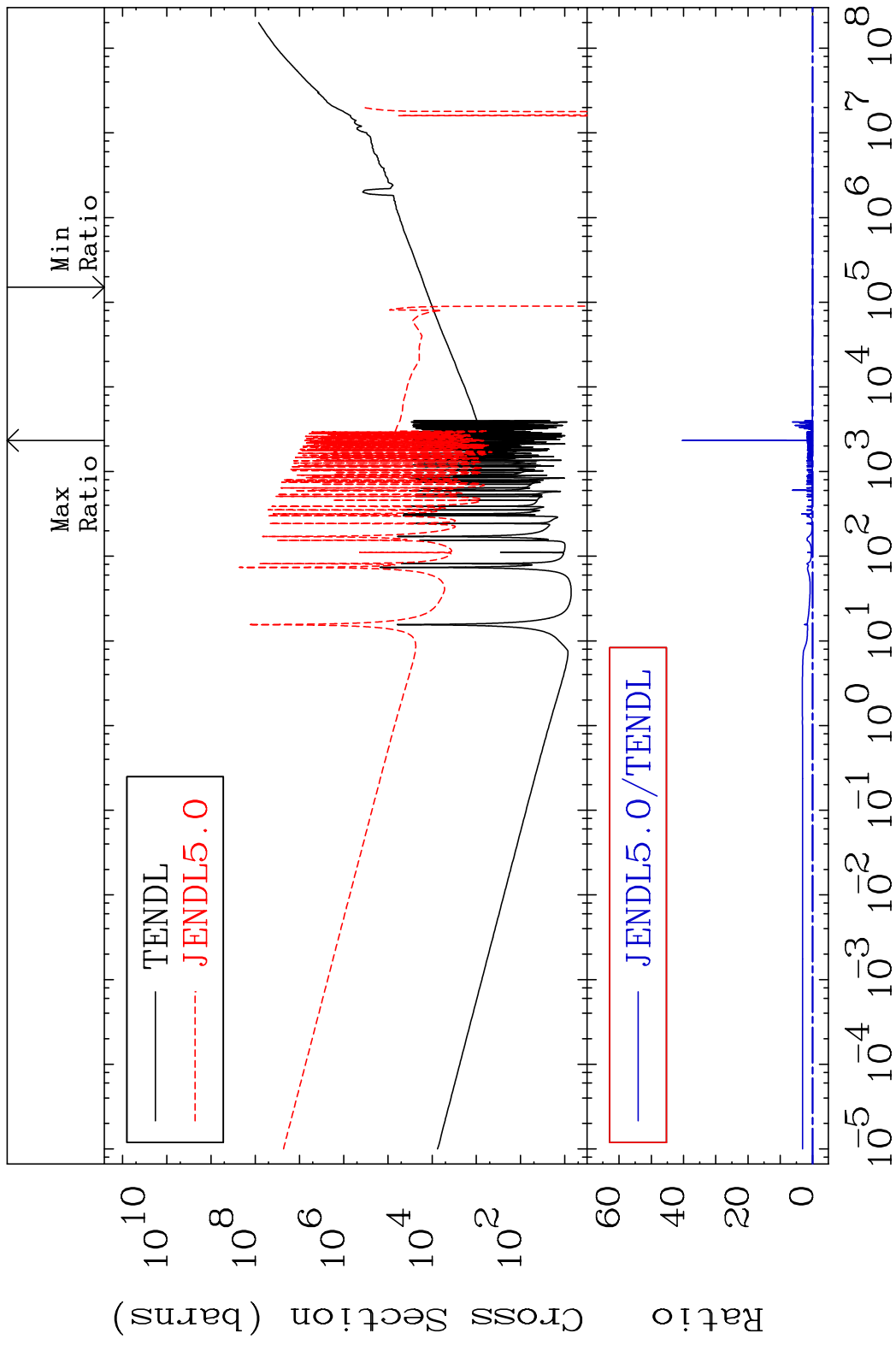
He-4 Production

68-Er-166

Cross Section -100.0 To 675.9 %



MAT 6837 Kerma total (eV-barns) 68-Er-166
 Cross Section -1730. To 9999. %

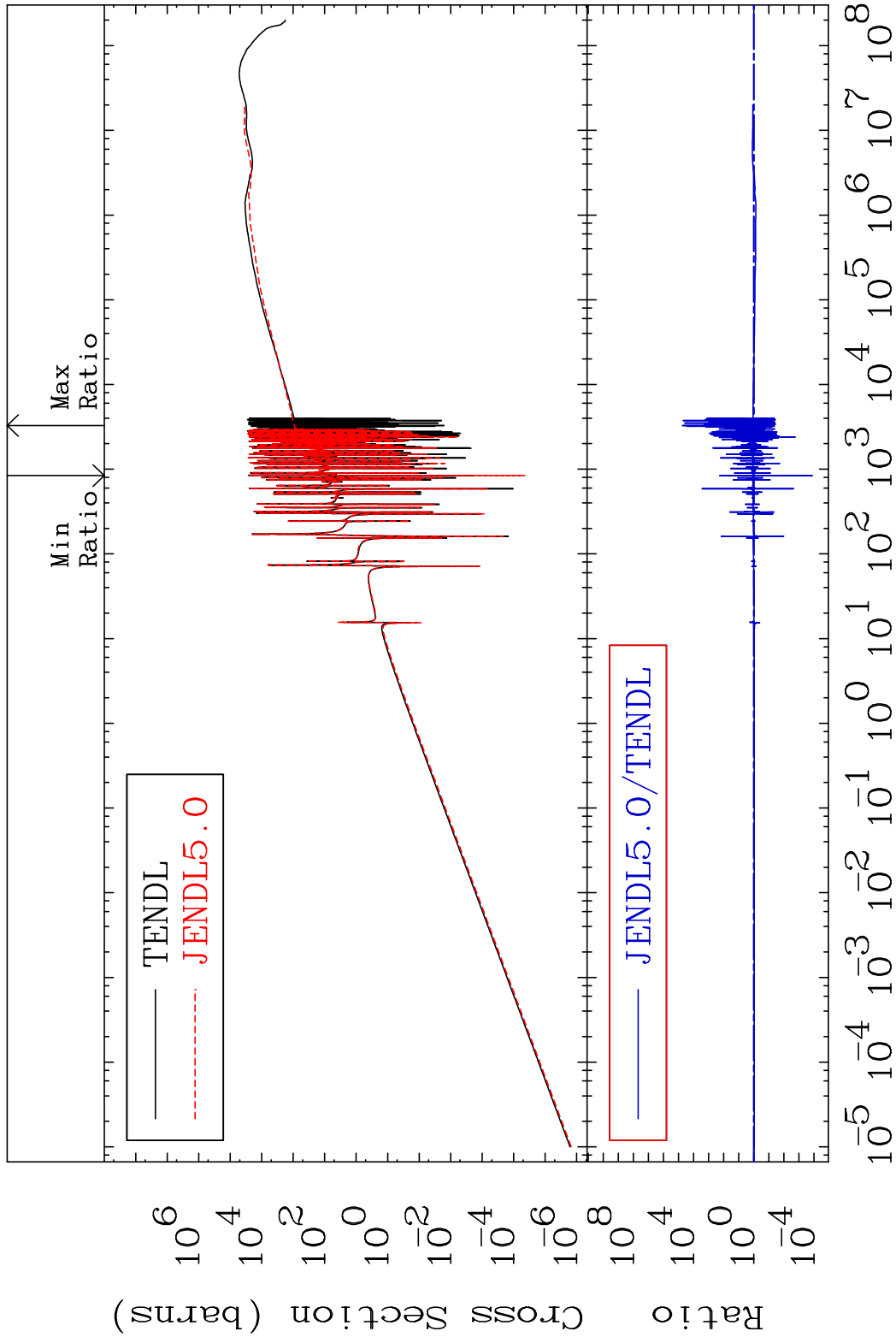


MAT 6837

Kerma elastic

68-Er-166

Cross Section -99.99 To 9999. %

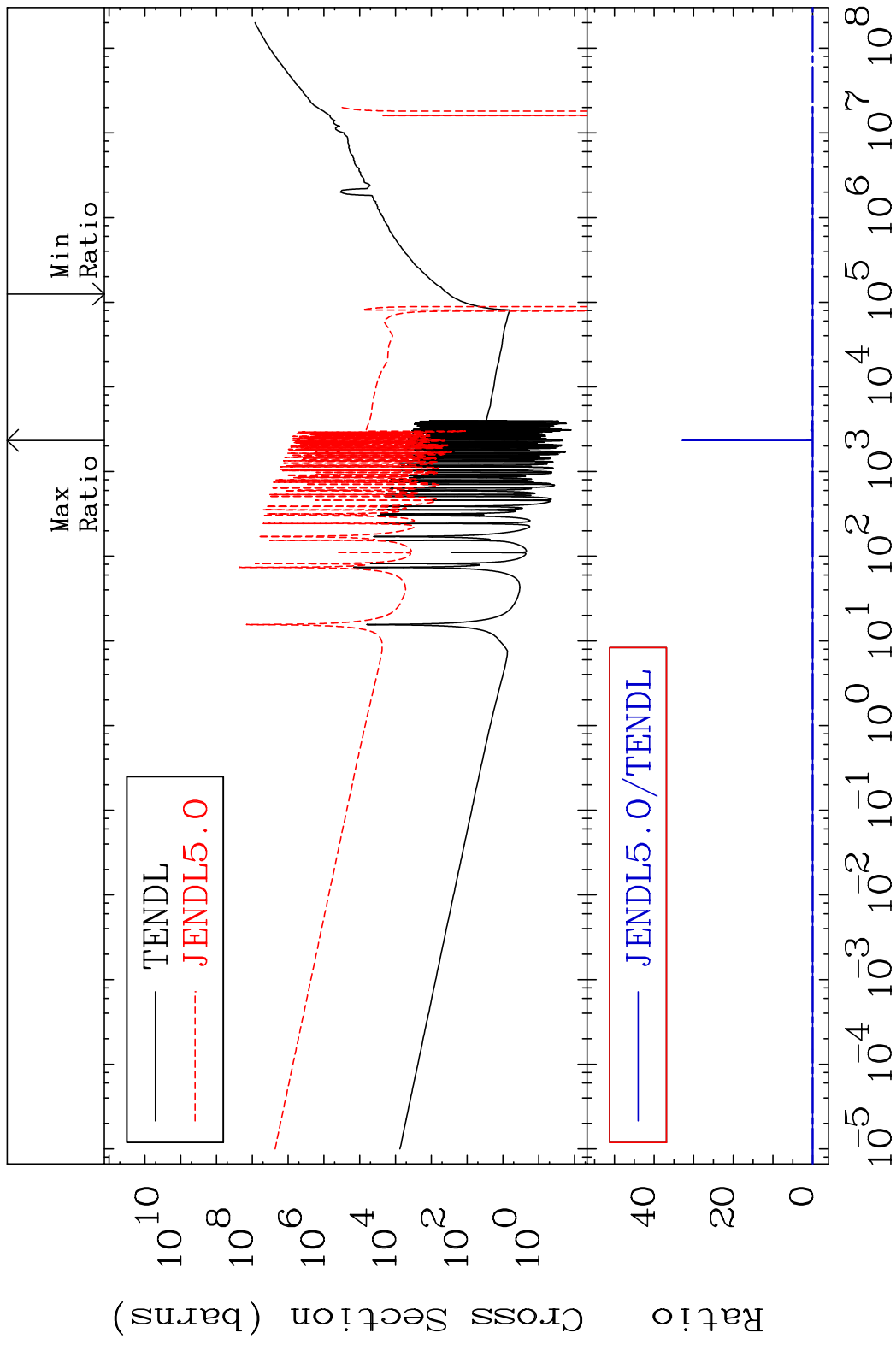


52

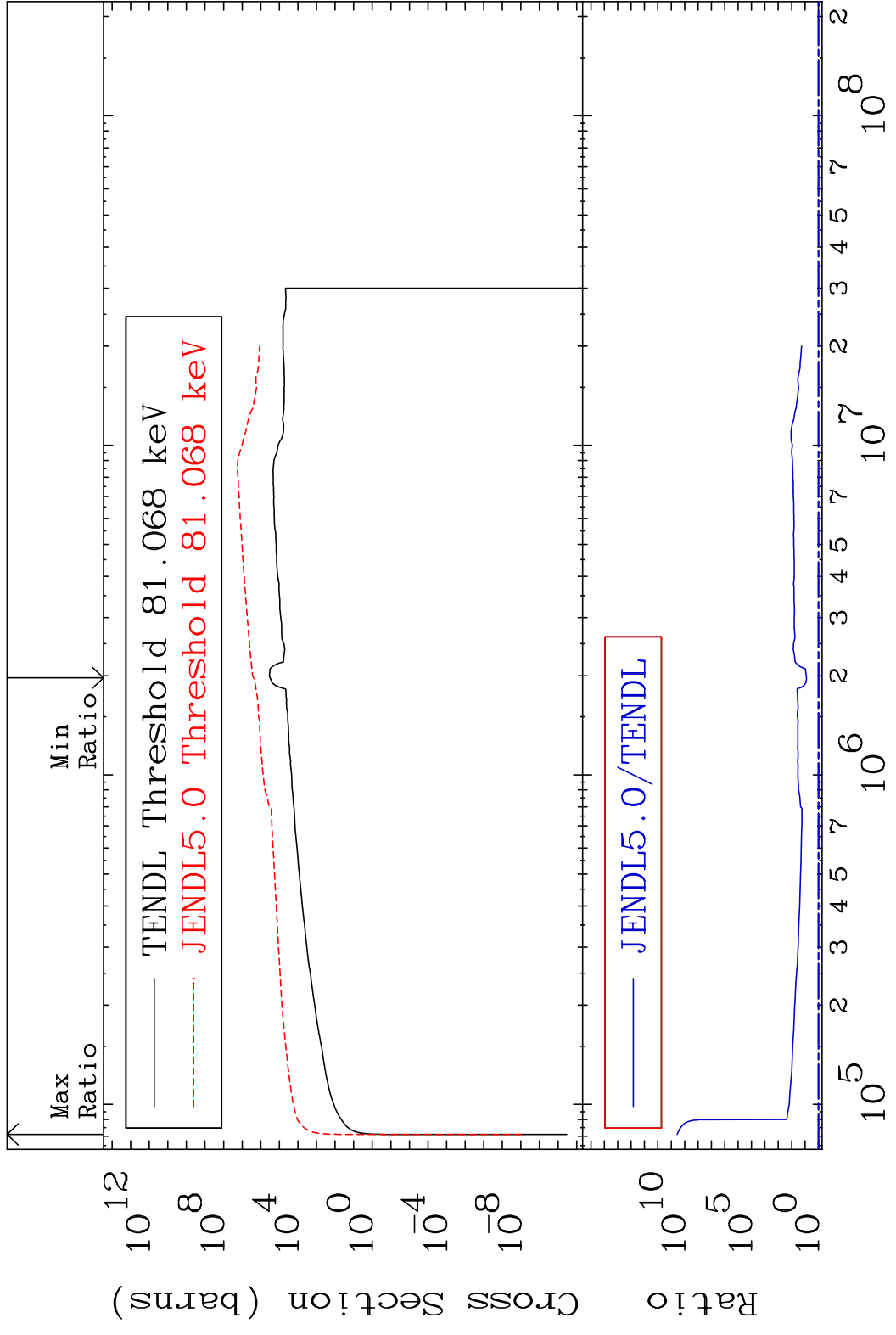
Incident Energy (eV)

68-Er-166

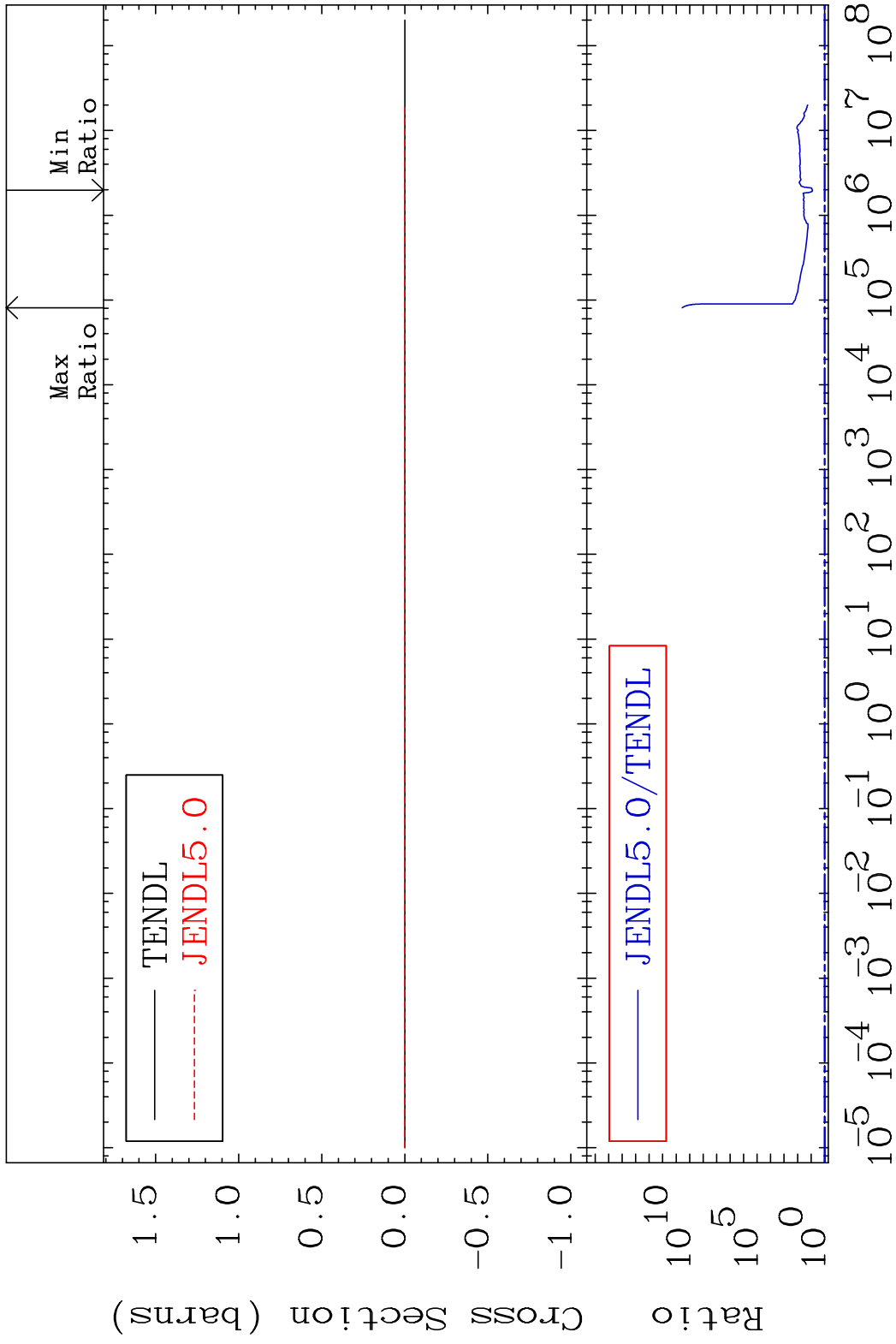
MAT 6837 Kerma non-elastic (all but mt2) 68-Er-166
 Cross Section -9999. To 9999. %

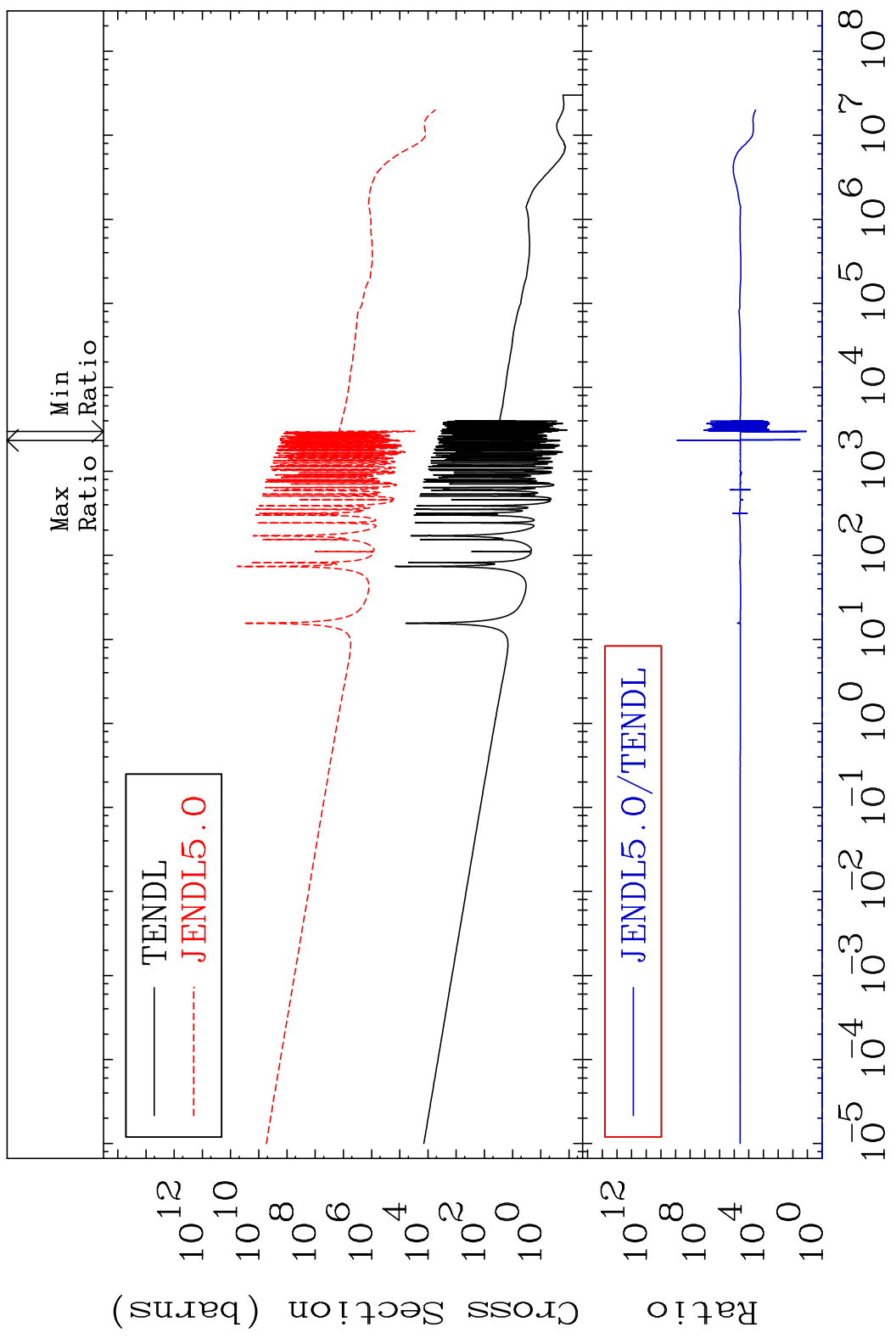


MAT 6837 Kerma inelastic (mt51-91) 68-Er-166
 Cross Section 689.5 To 9999. %



MAT 6837 Kerma fission (mt18 or mt19-20-21-38) 68-Er-166
 Cross Section 689.5 To 9999. %



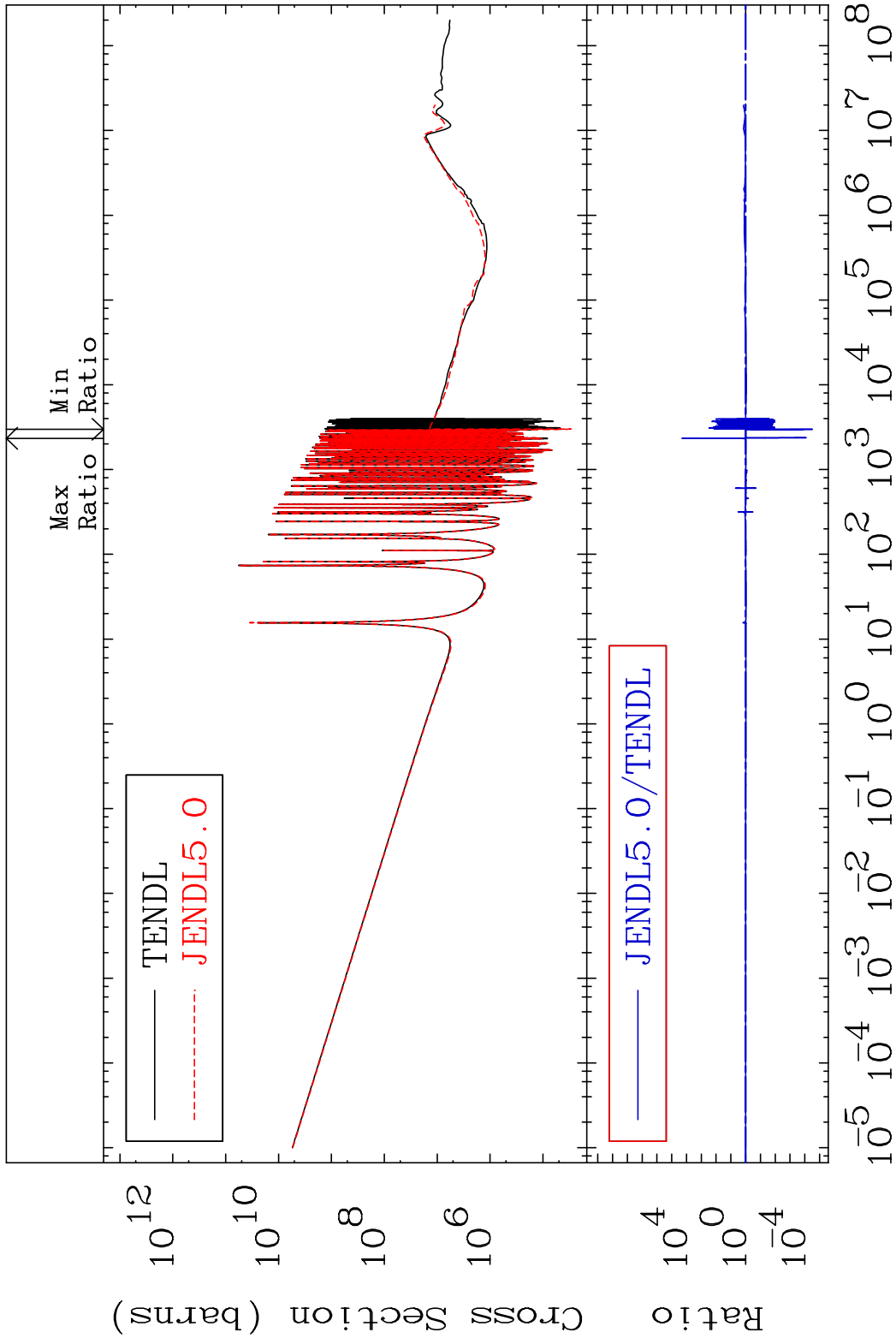


MAT 6837

Total photon (eV-barns)

68-Er-166

Cross Section -100.0 To 9999. %

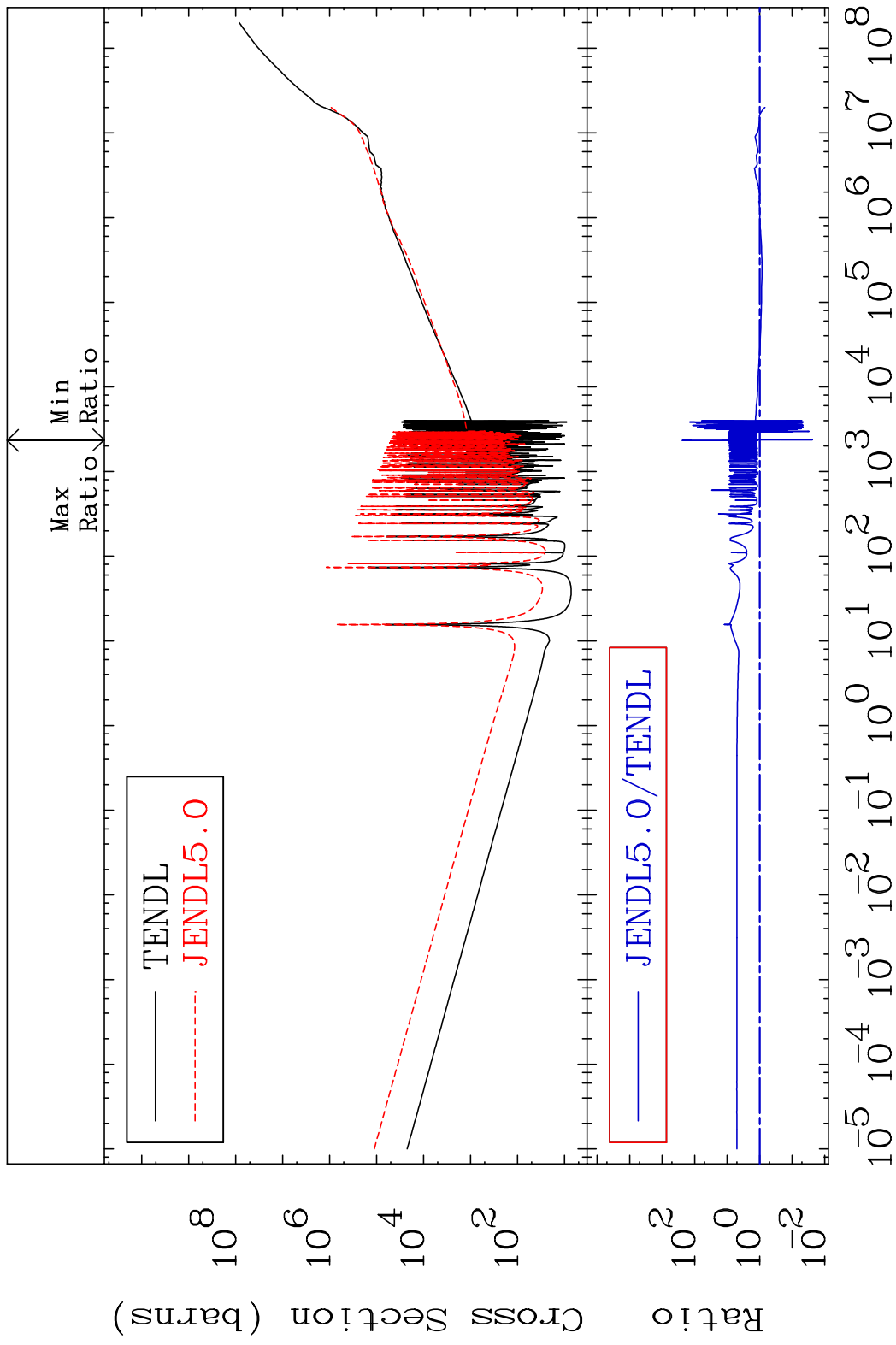


57

Incident Energy (eV)

68-Er-166

MAT 6837 Total kinematic kerma (high limit) 68-Er-166
 Cross Section -97.65 To 9999. %

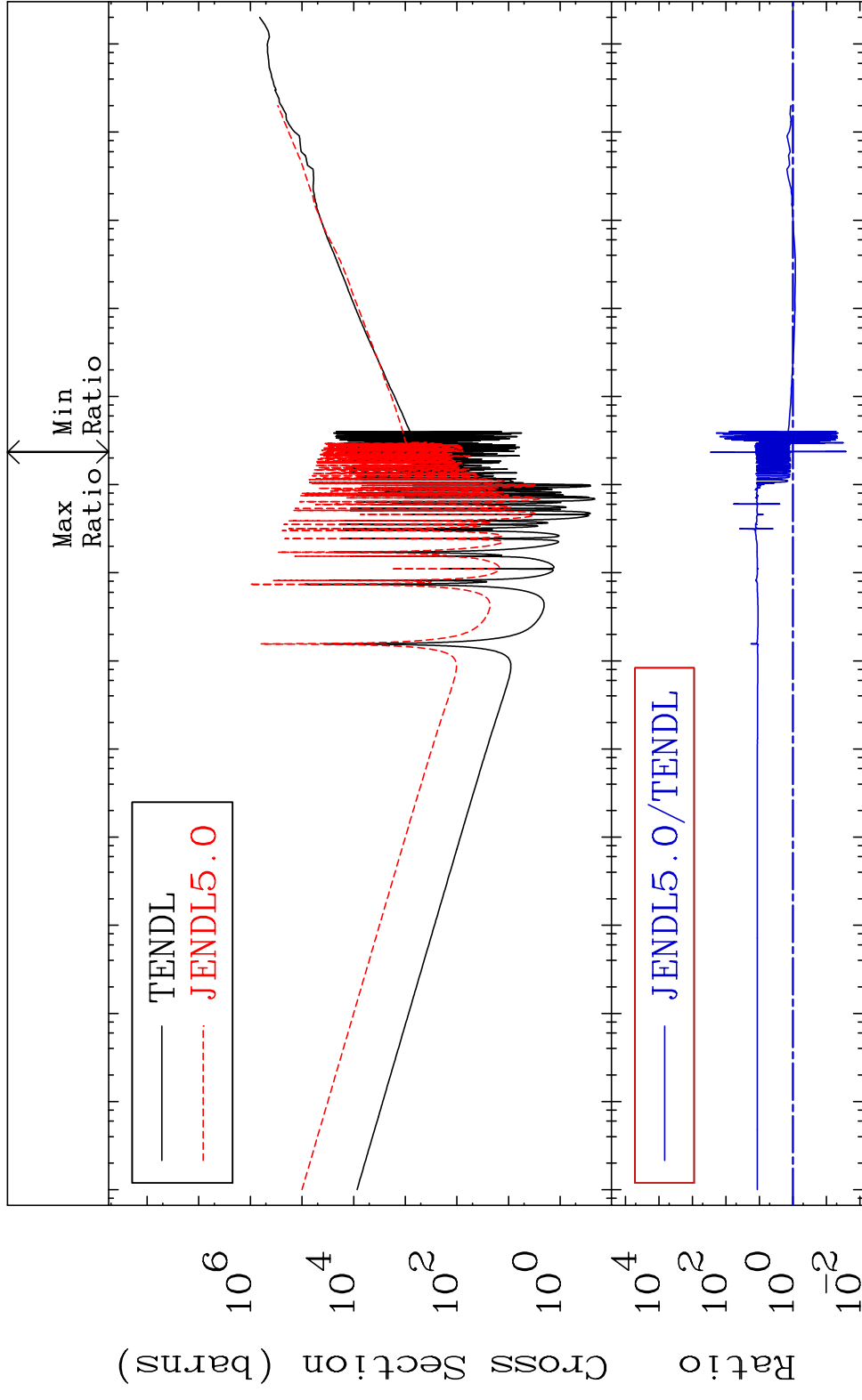


MAT 6837

Dpa total (eV-barns)

68-Er-166

Cross Section -97.44 To 9999. %

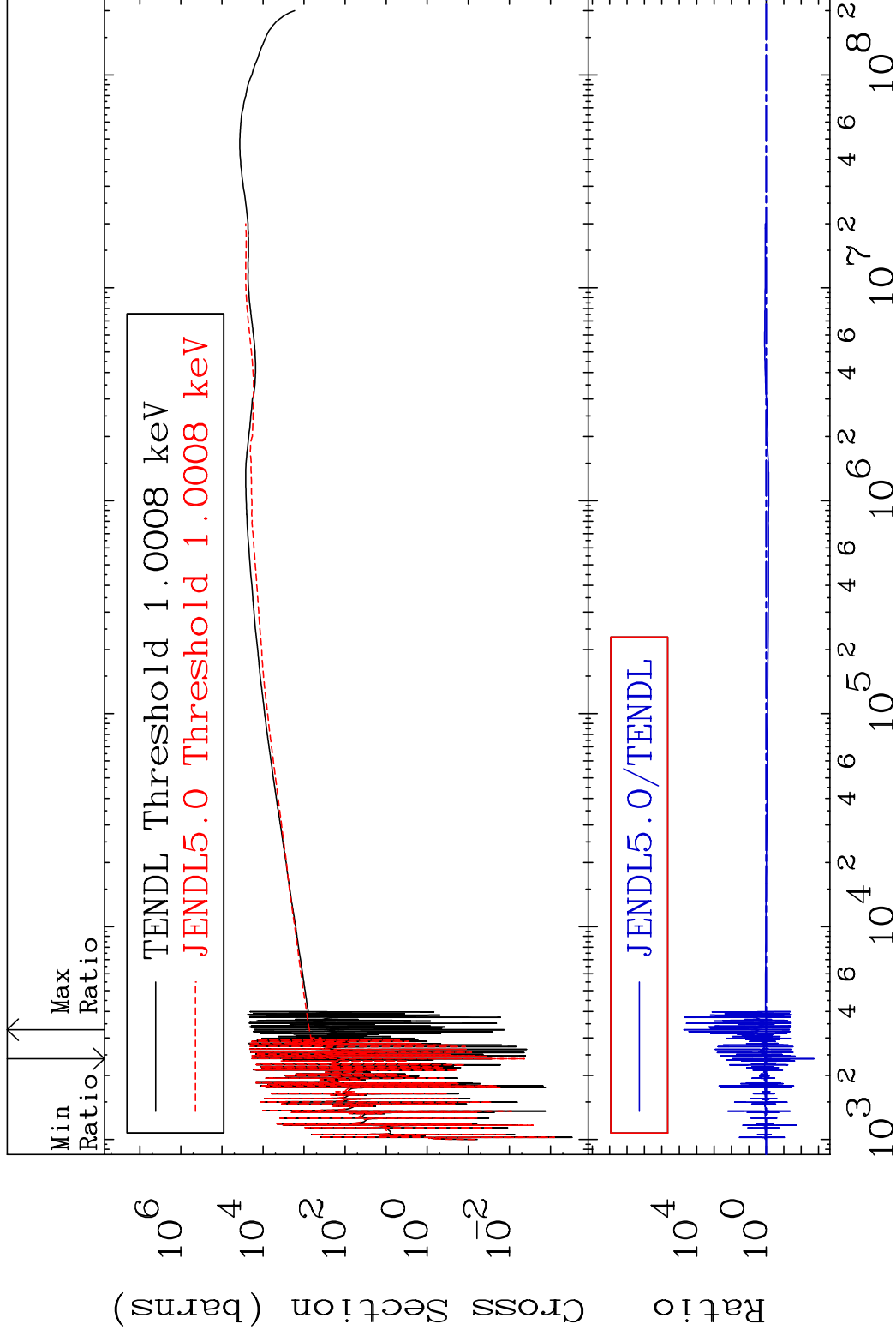


MAT 6837

Dpa elastic (mt2)

68-Er-166

Cross Section -99.82 To 9999. %

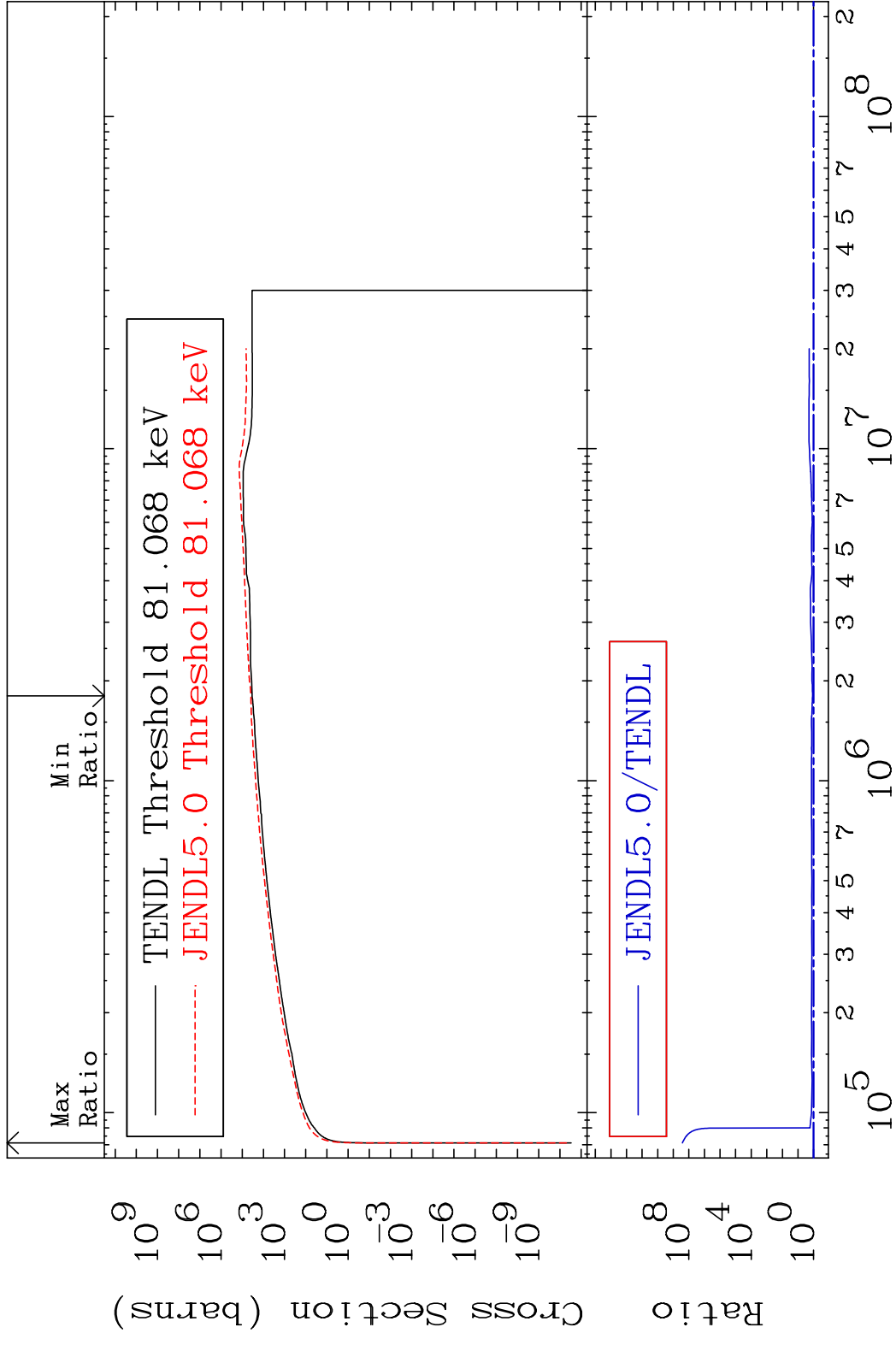


60

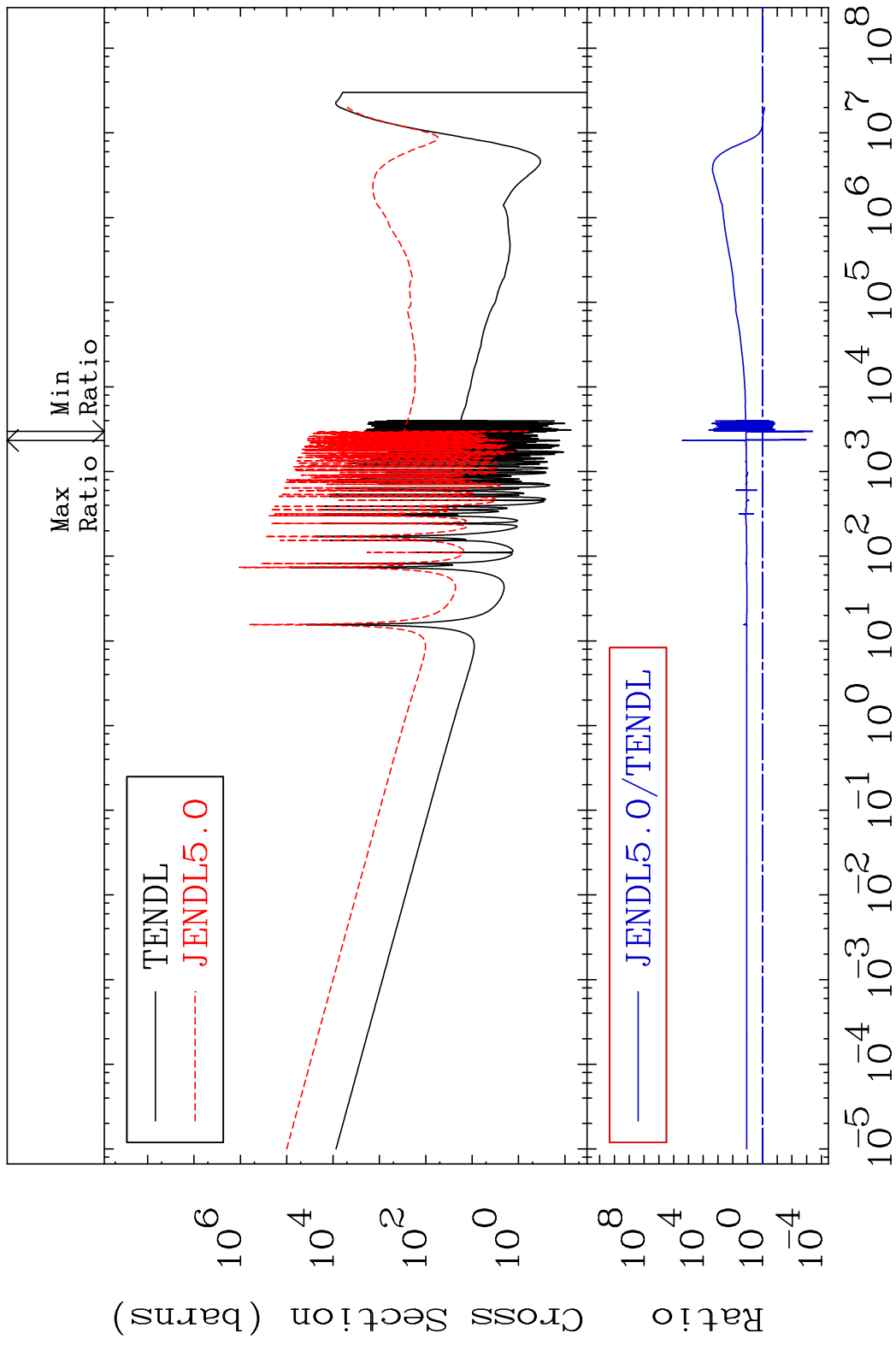
Incident Energy (eV)

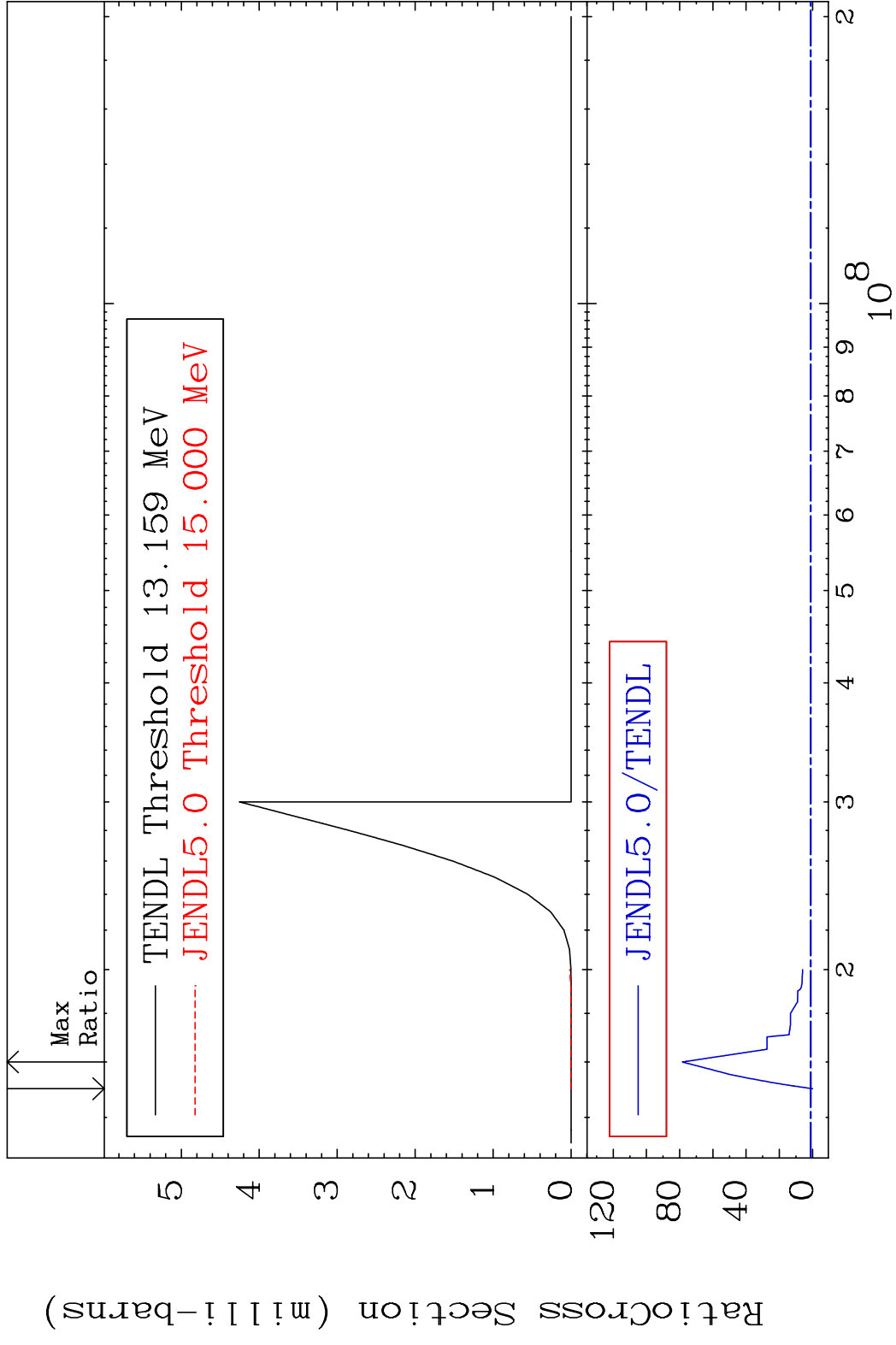
68-Er-166

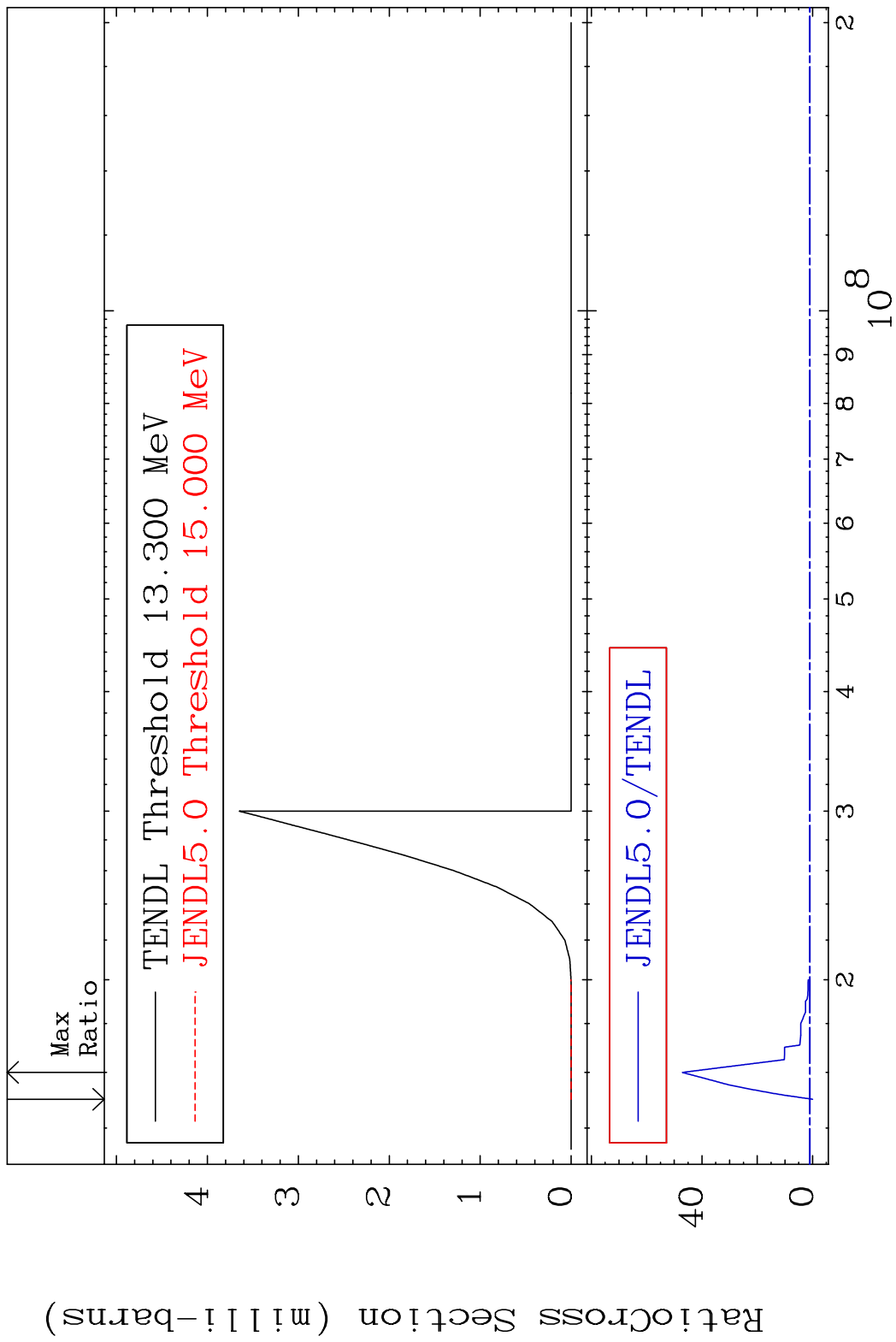
MAT 6837 Dpa inelastic (mt51-91) 68-Er-166
 Cross Section 16.09 To 9999. %

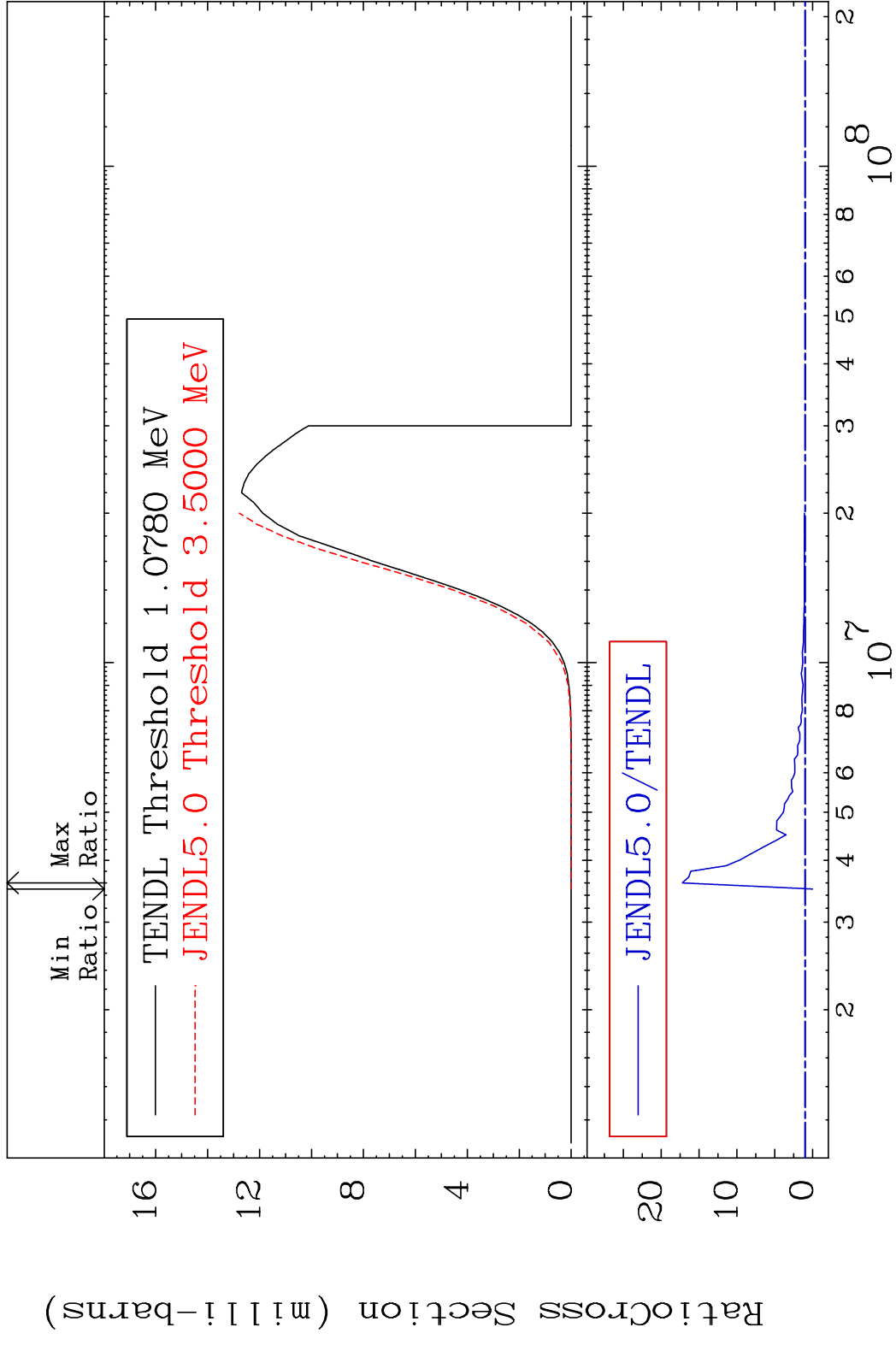


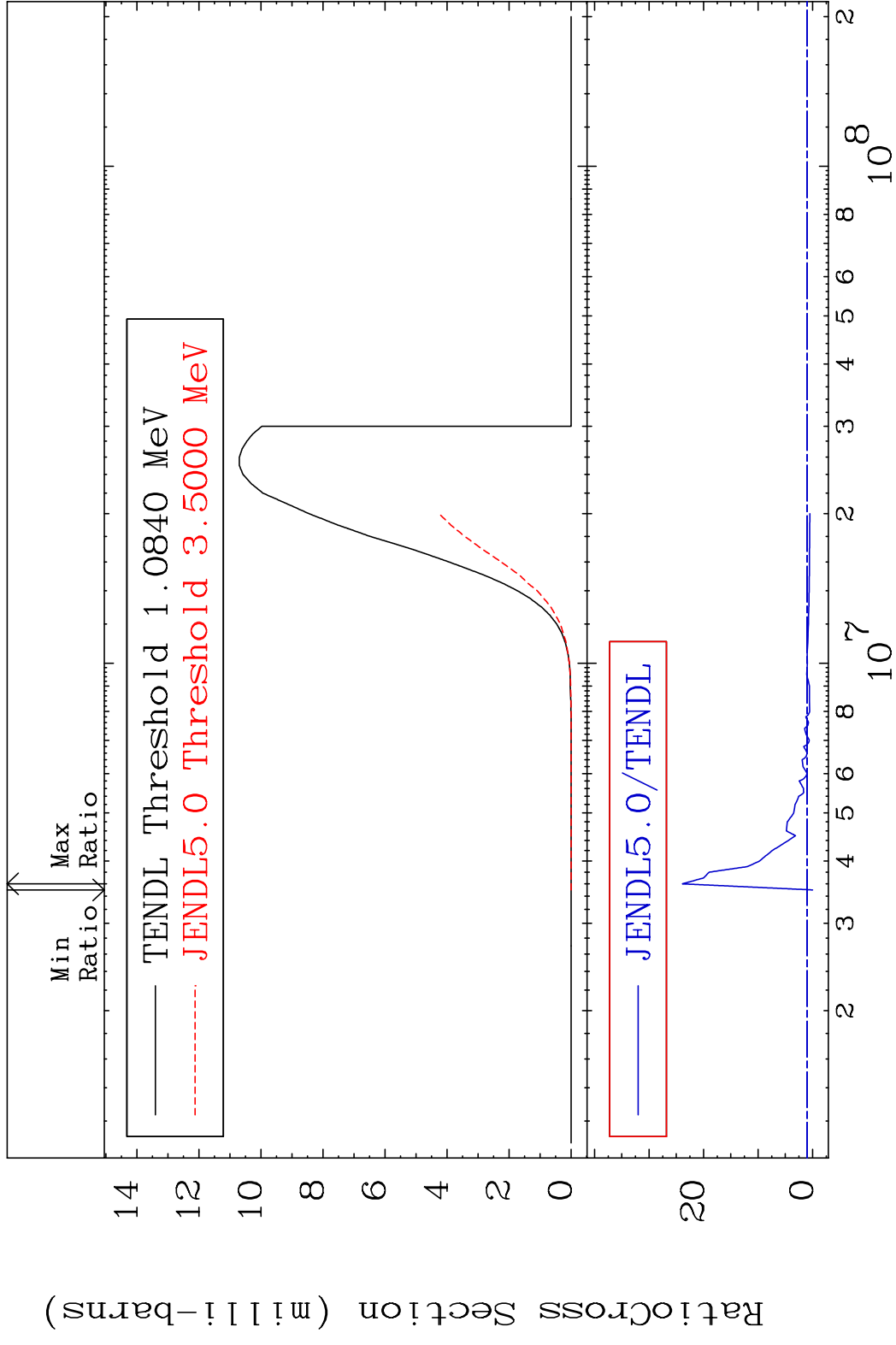
MAT 6837 Dpa disappearance (mt102 -120) 68-Er-166
 Cross Section -99.96 To 9999. %

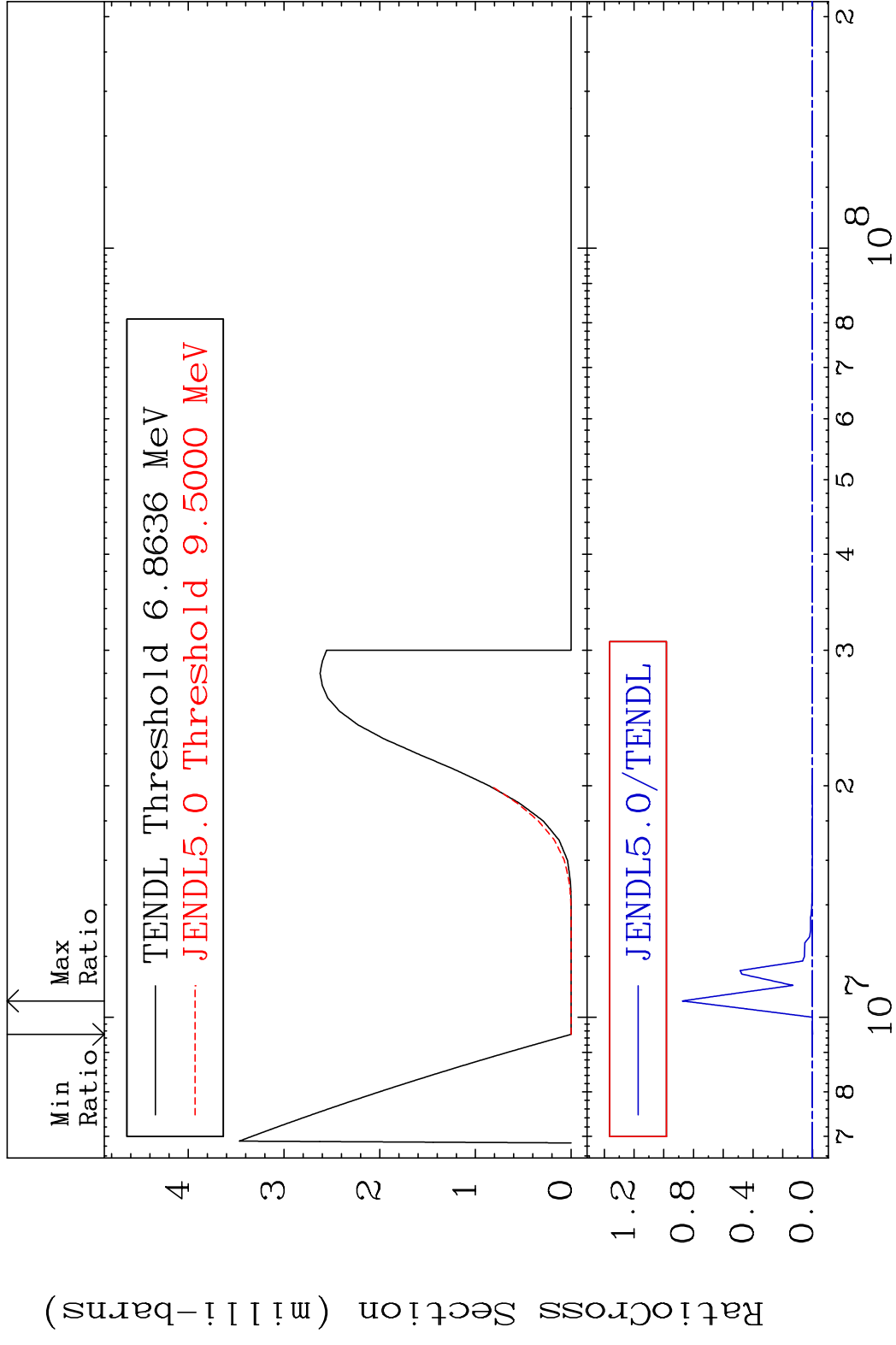


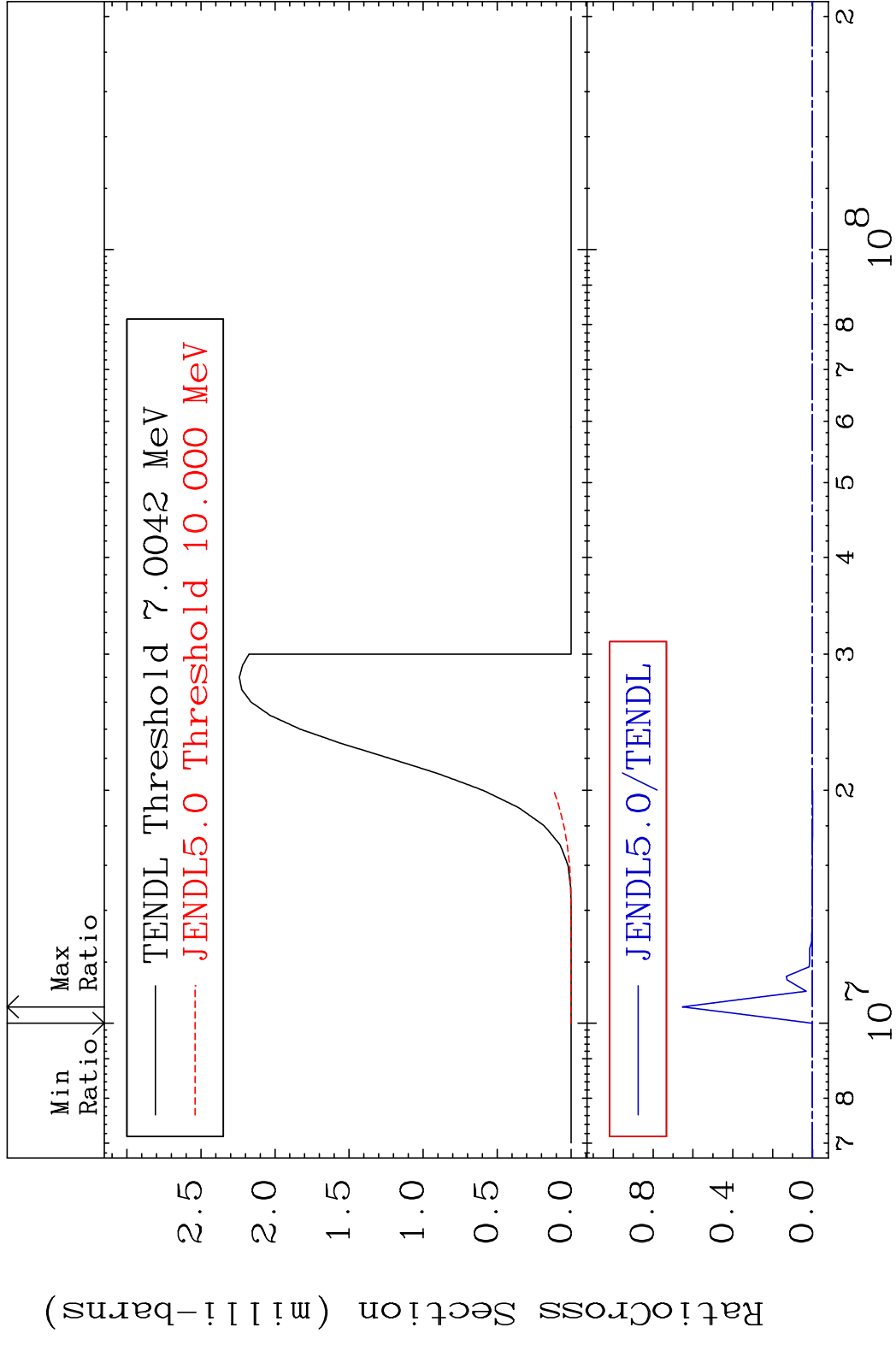








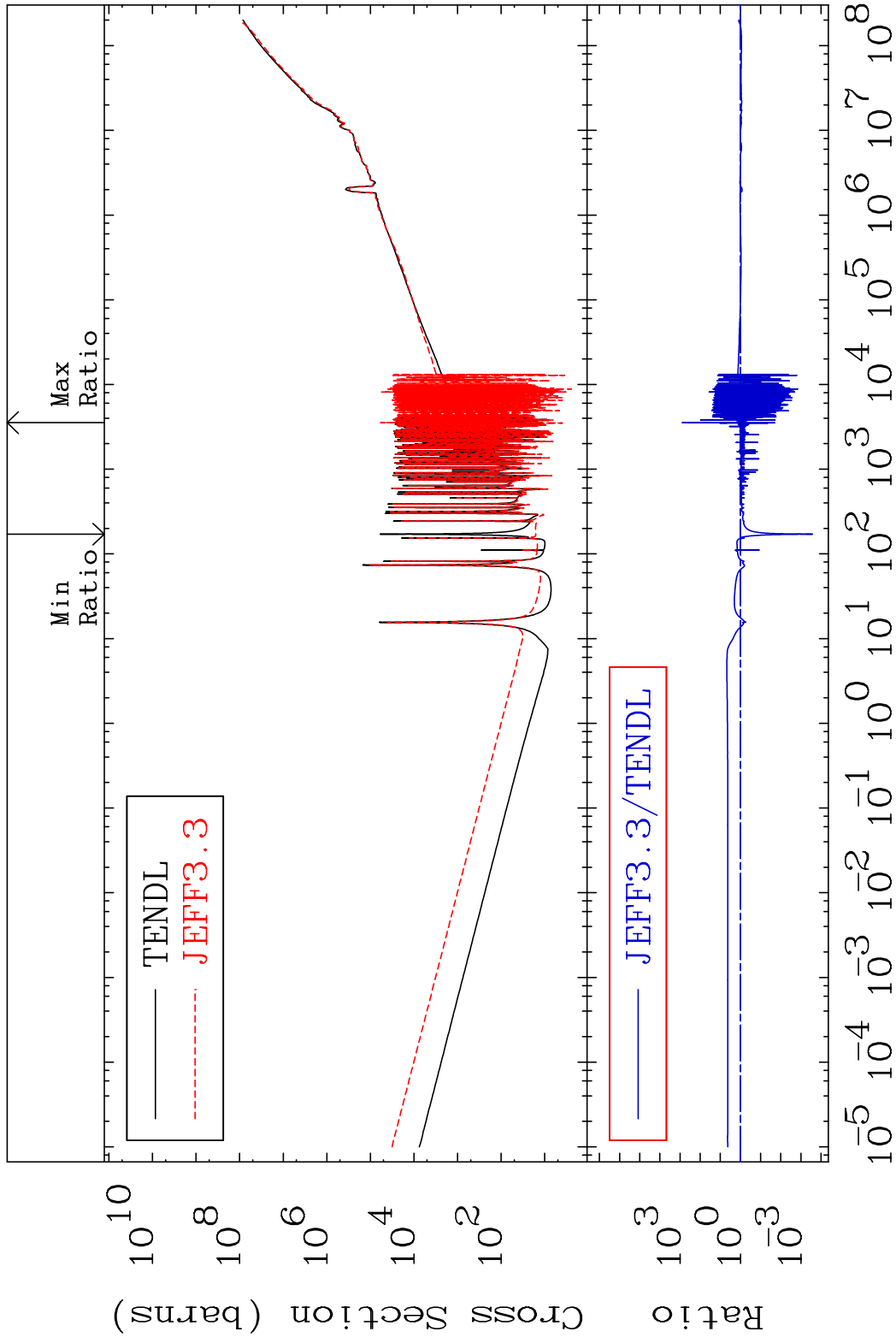




MAT 6837

Kerma total (eV-barns) 68-Er-166

Cross Section -99.97 To 9999. %



69

Incident Energy (eV)

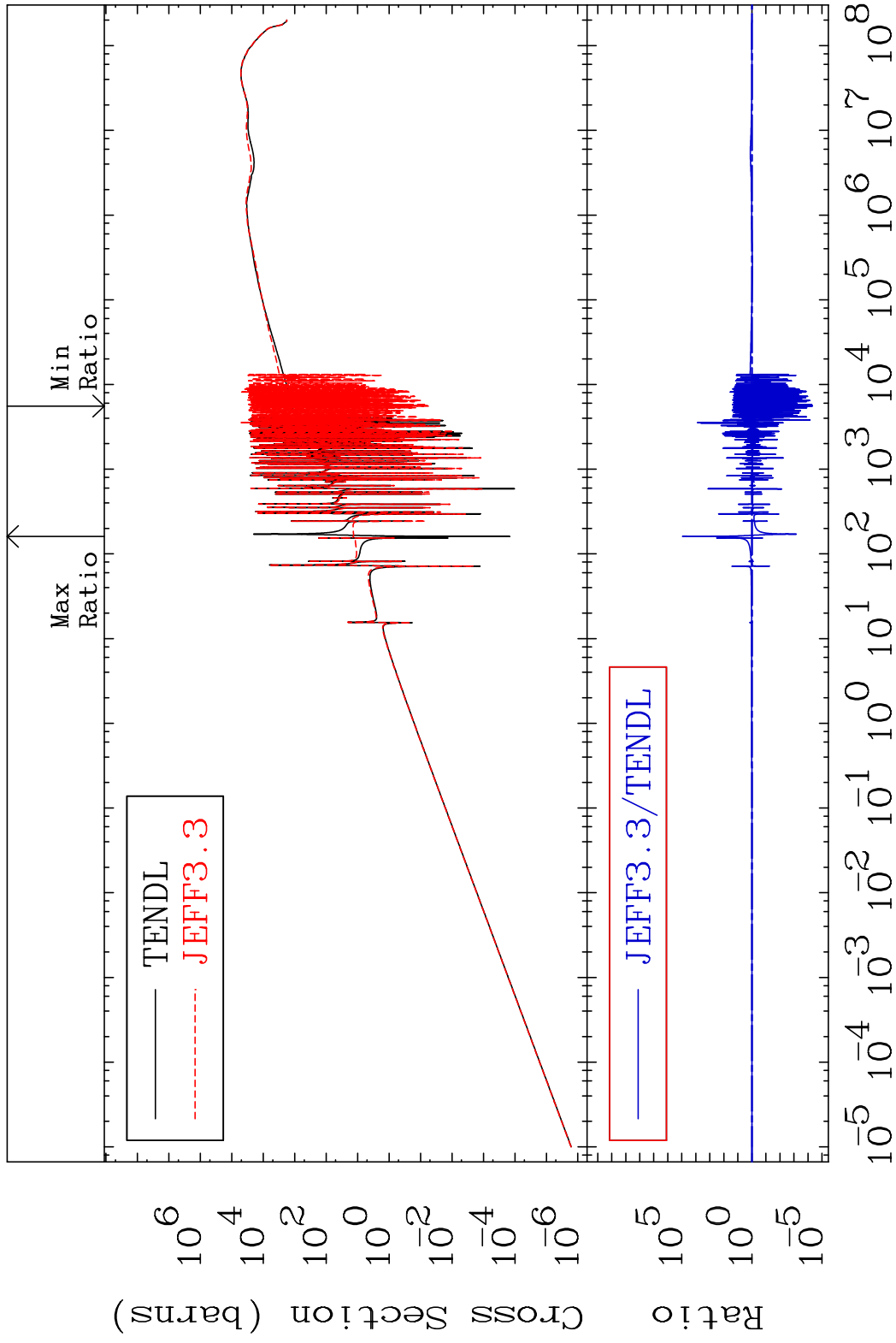
68-Er-166

MAT 6837

Kerma elastic

68-Er-166

Cross Section -100.0 To 9999. %

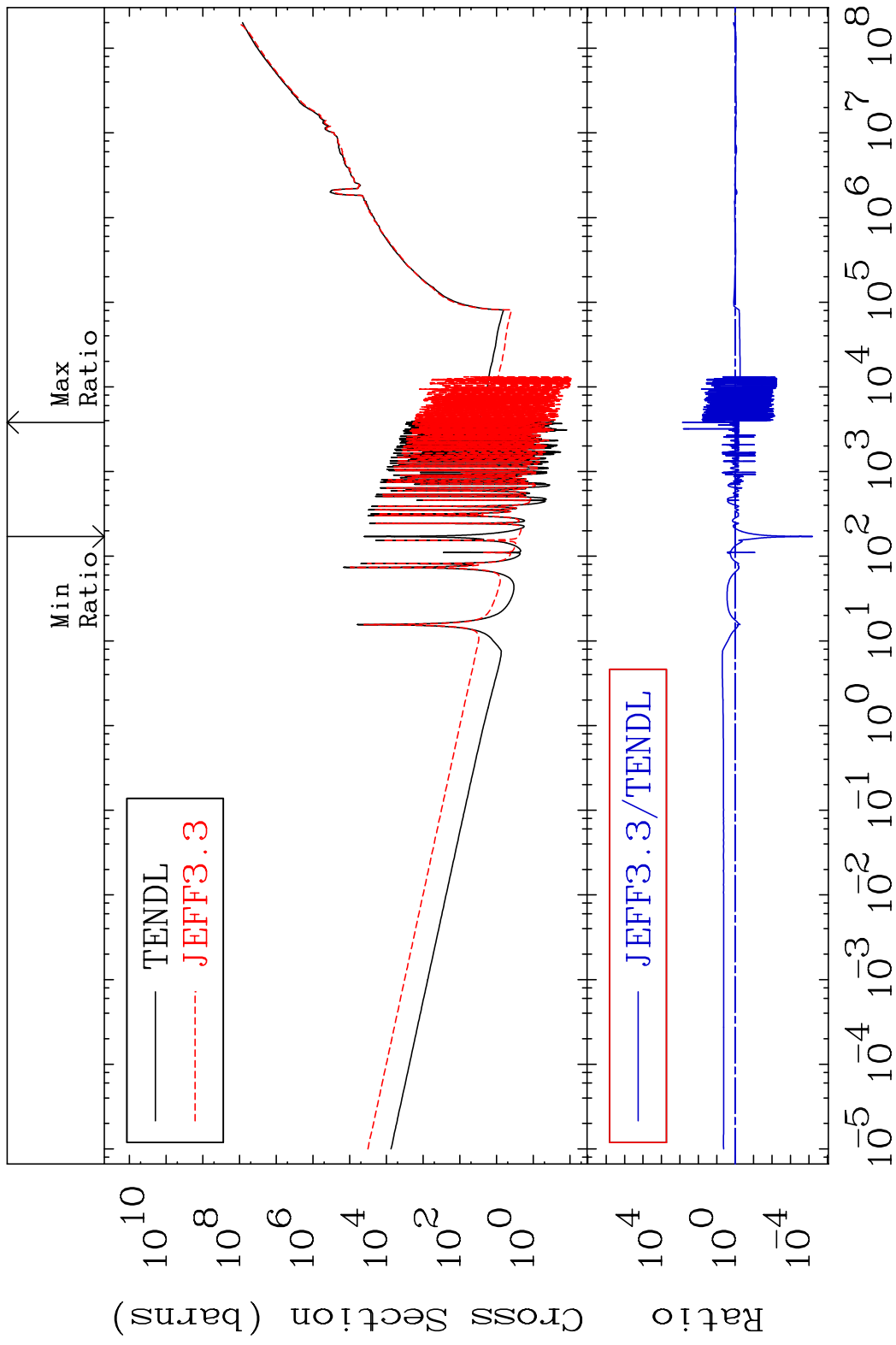


70

Incident Energy (eV)

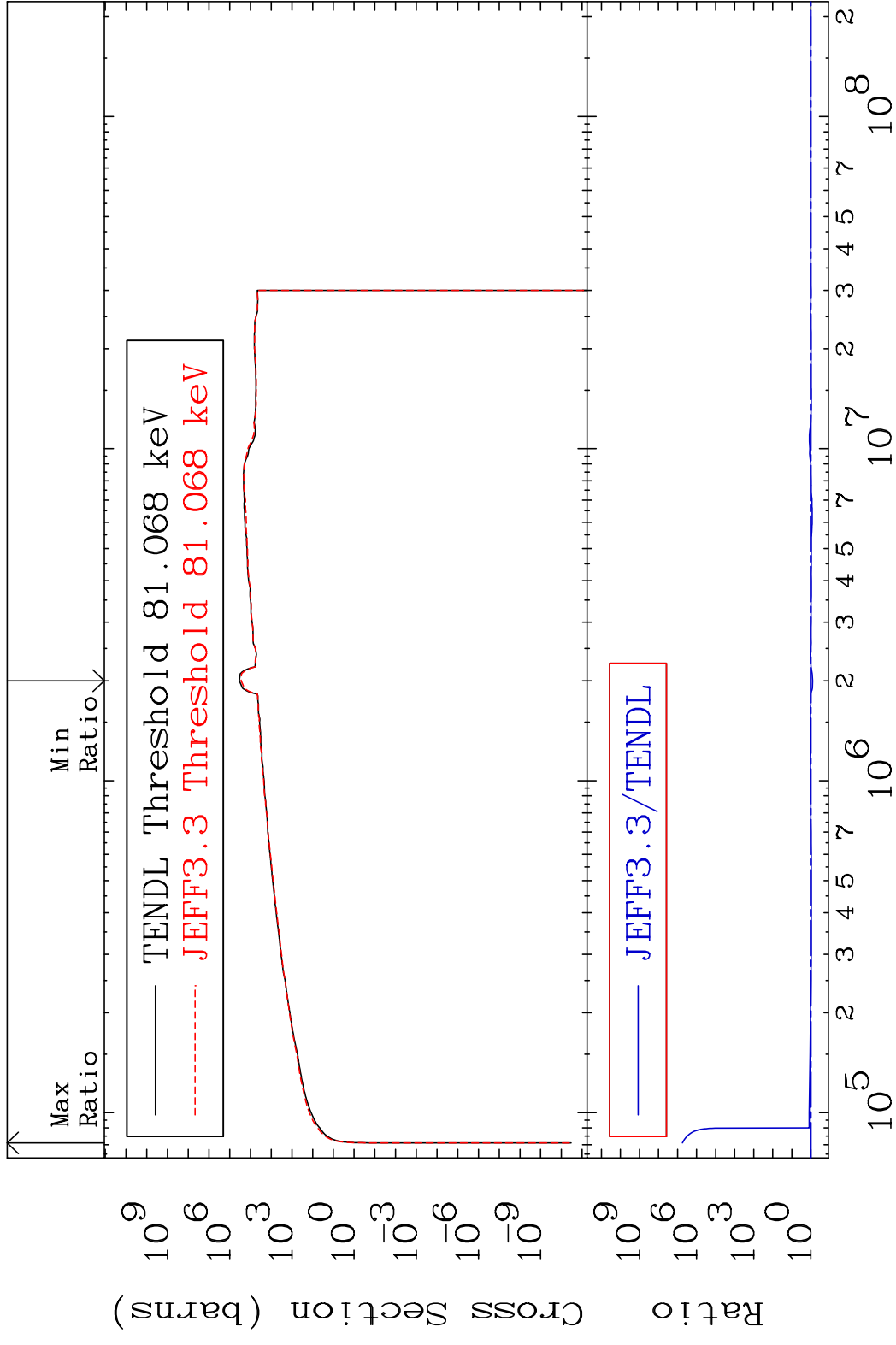
68-Er-166

MAT 6837 Kerma non-elastic (all but mt2) 68-Er-166
 Cross Section -99.99 To 9999. %

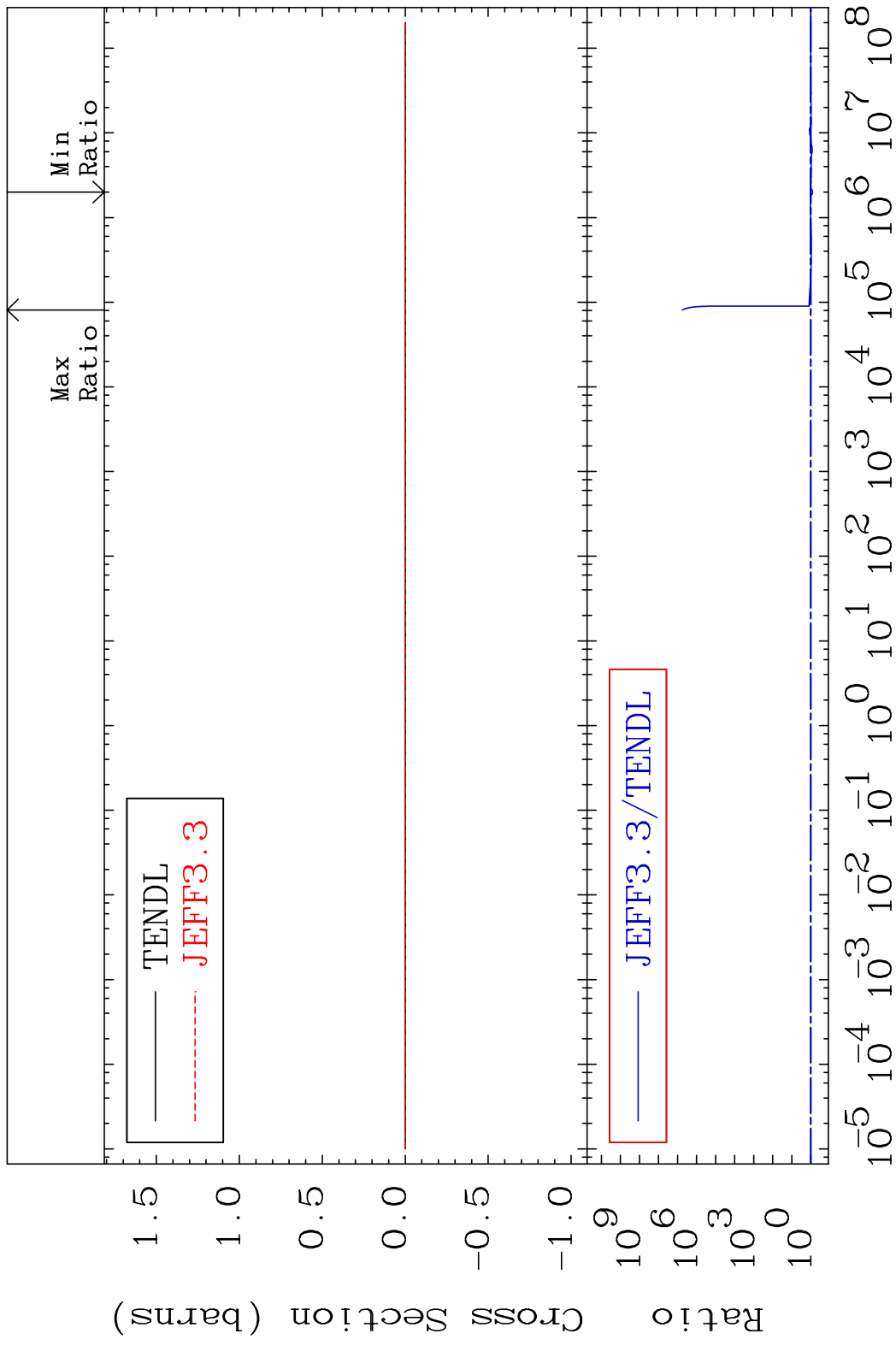


71 Incident Energy (eV) 68-Er-166

MAT 6837 Kerma inelastic (mt51-91) 68-Er-166
 Cross Section -18.84 To 9999. %



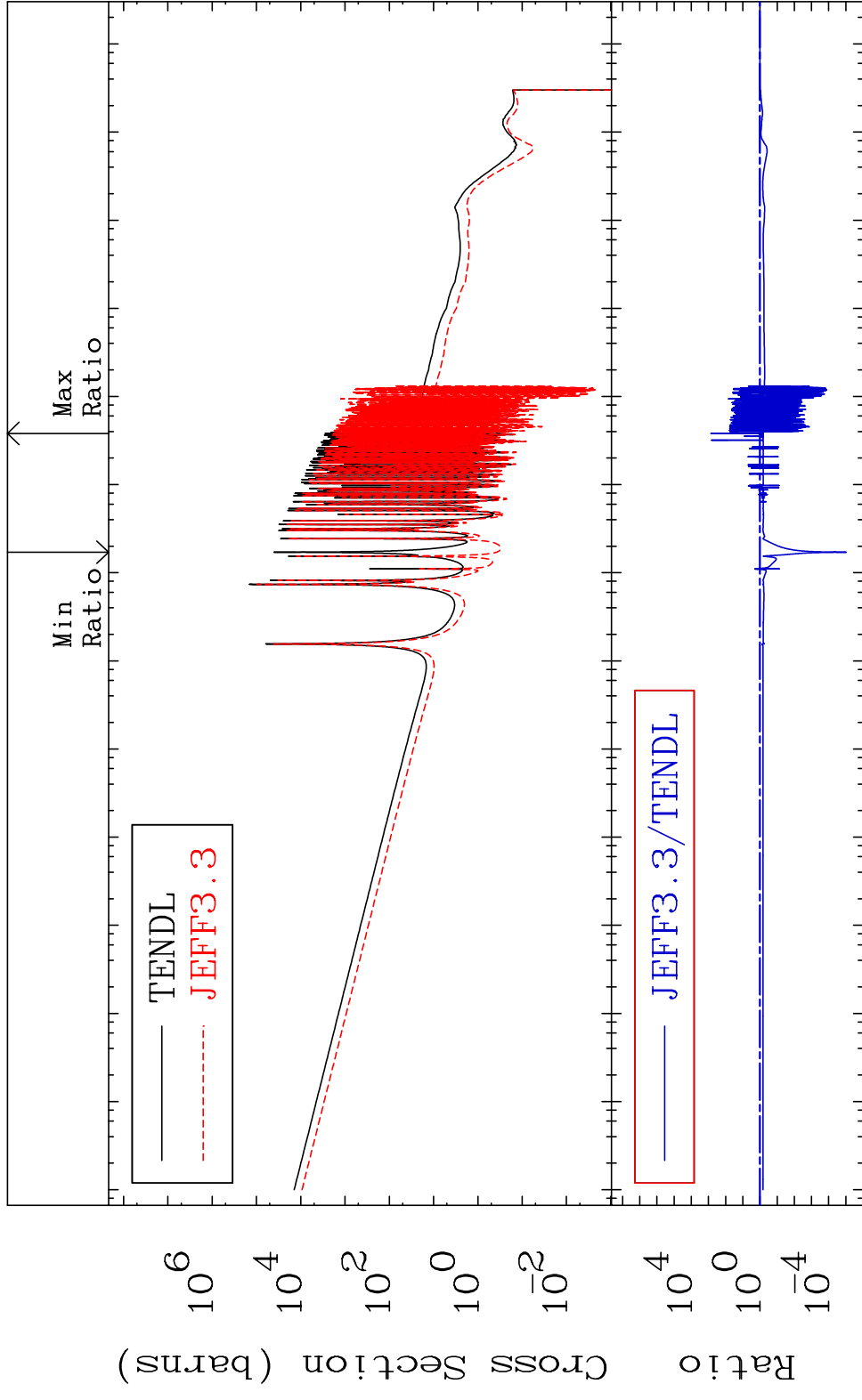
MAT 6837 Kerma fission (mt18 or mt19-20-21-38) 68-Er-166
 Cross Section -18.84 To 9999. %



MAT 6837

Kerma capture (mt102) 68-Er-166

Cross Section -100.0 To 9999. %



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

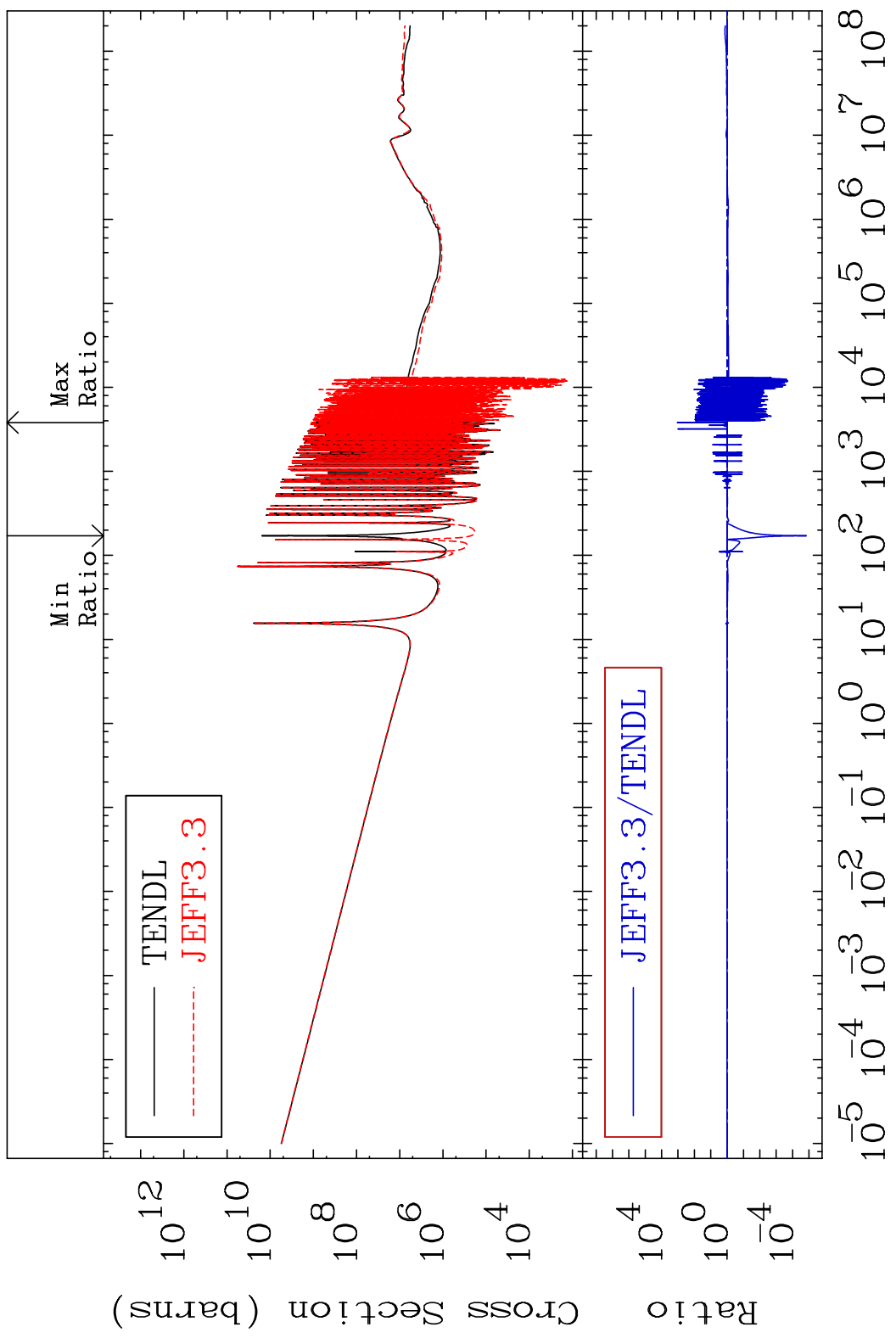
74

Incident Energy (eV)

68-Er-166

MAT 6837

Total photon (eV-barns) 68-Er-166
Cross Section -100.0 To 9999. %

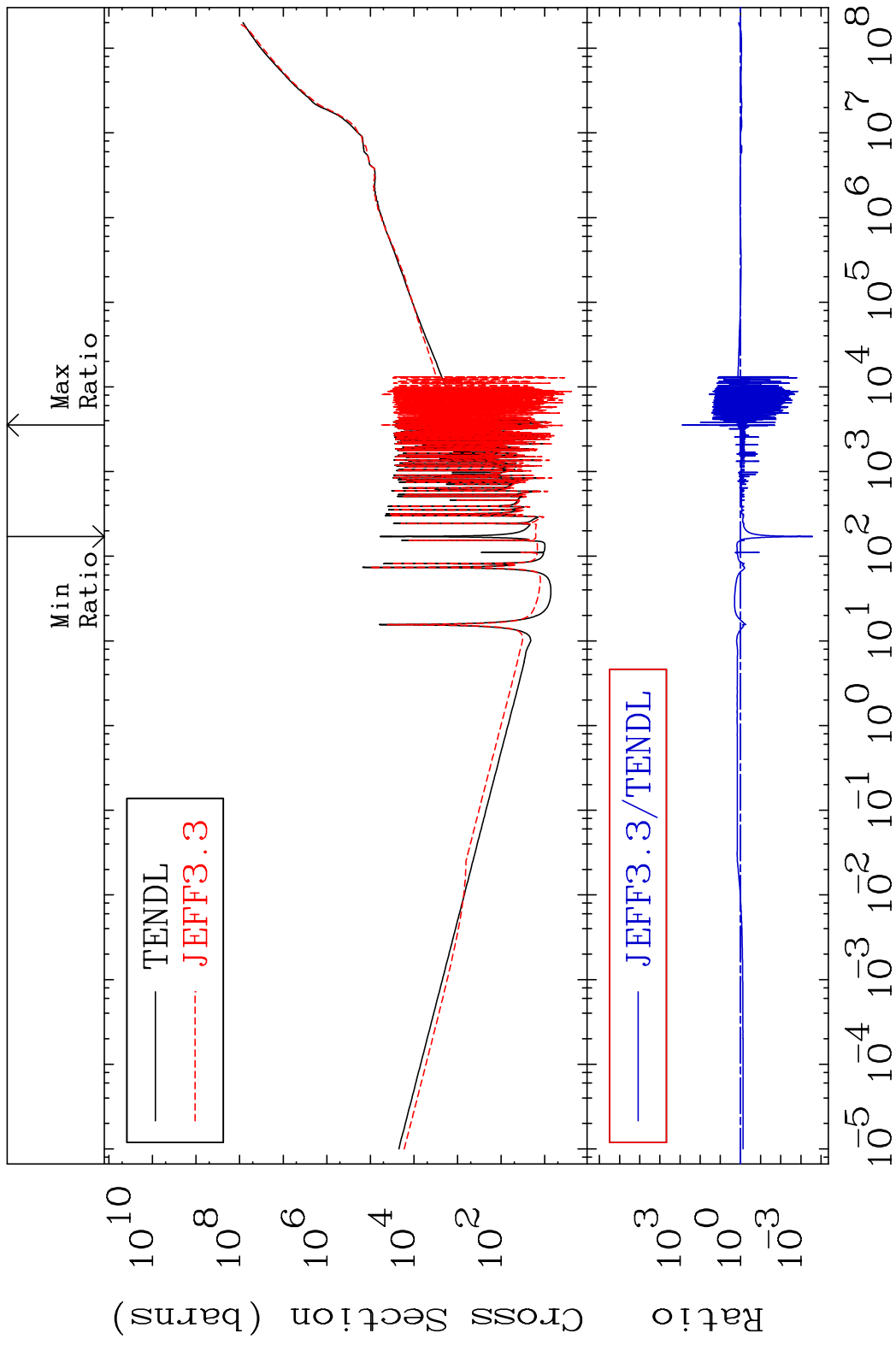


75

Incident Energy (eV)

68-Er-166

MAT 6837 Total kinematic kerma (high limit) 68-Er-166
 Cross Section -99.97 To 9999. %

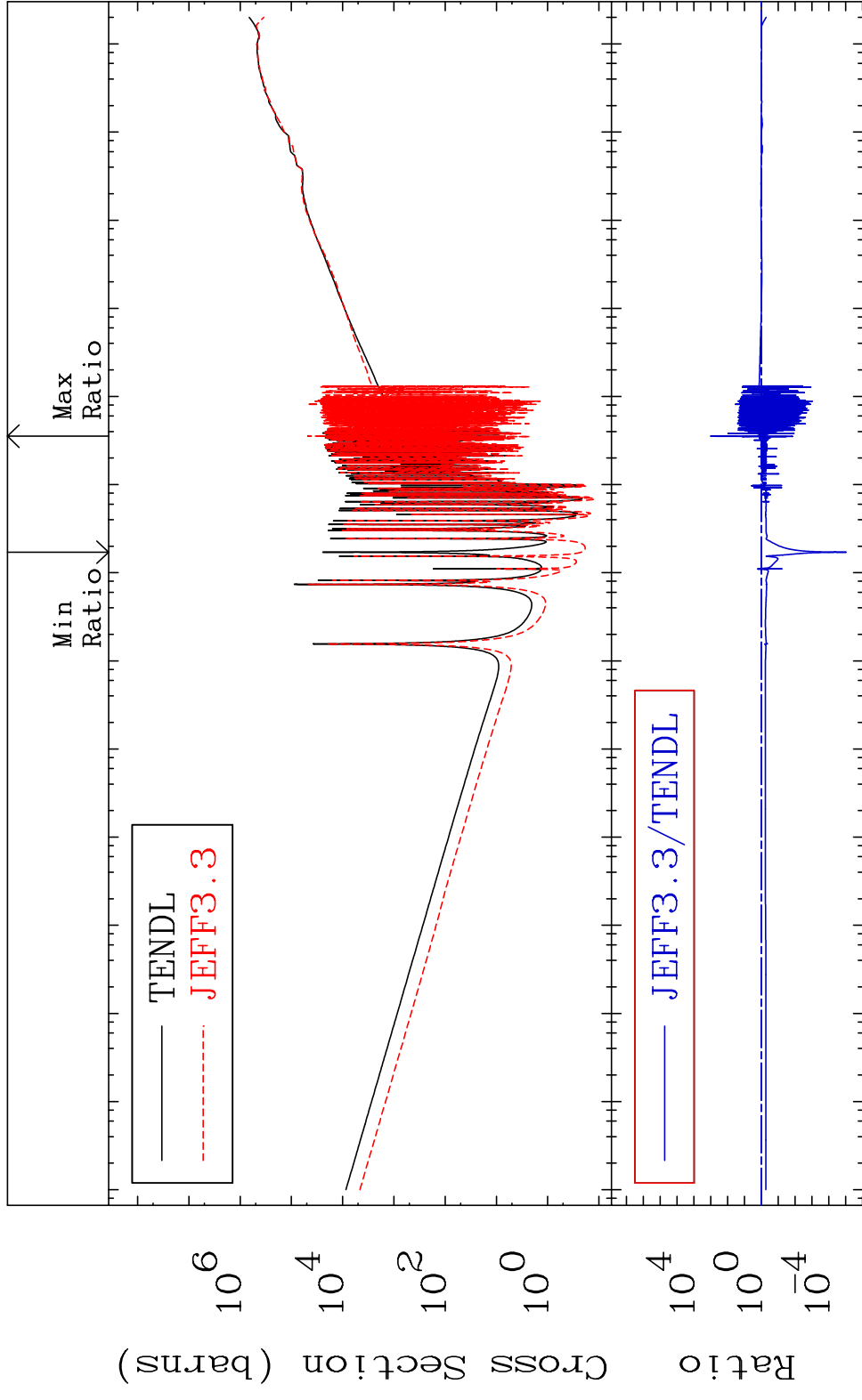


MAT 6837

Dpa total (eV-barns)

68-Er-166

Cross Section -100.0 To 9999. %



77

Incident Energy (eV)

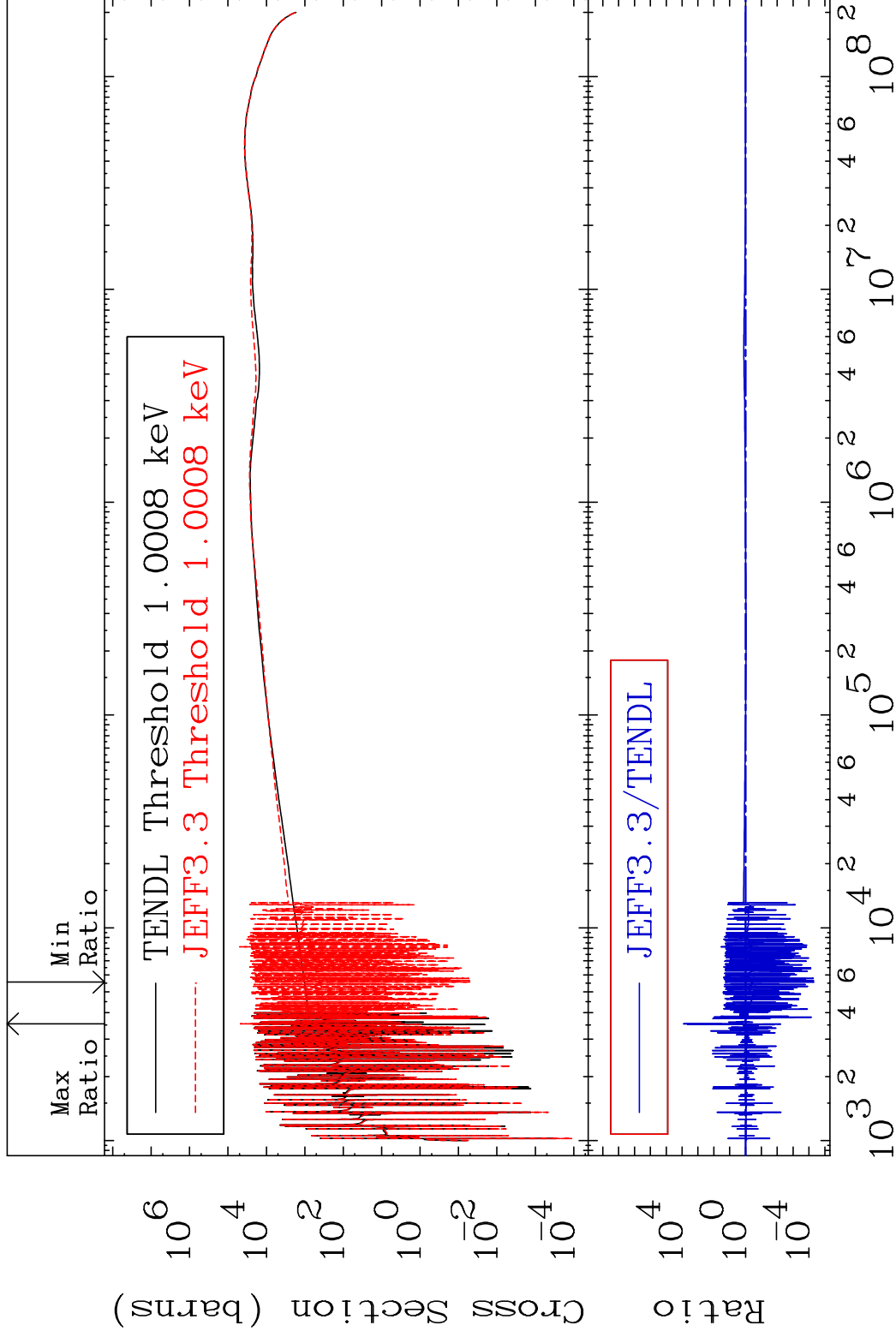
68-Er-166

MAT 6837

Dpa elastic (mt2)

68-Er-166

Cross Section -100.0 To 9999. %

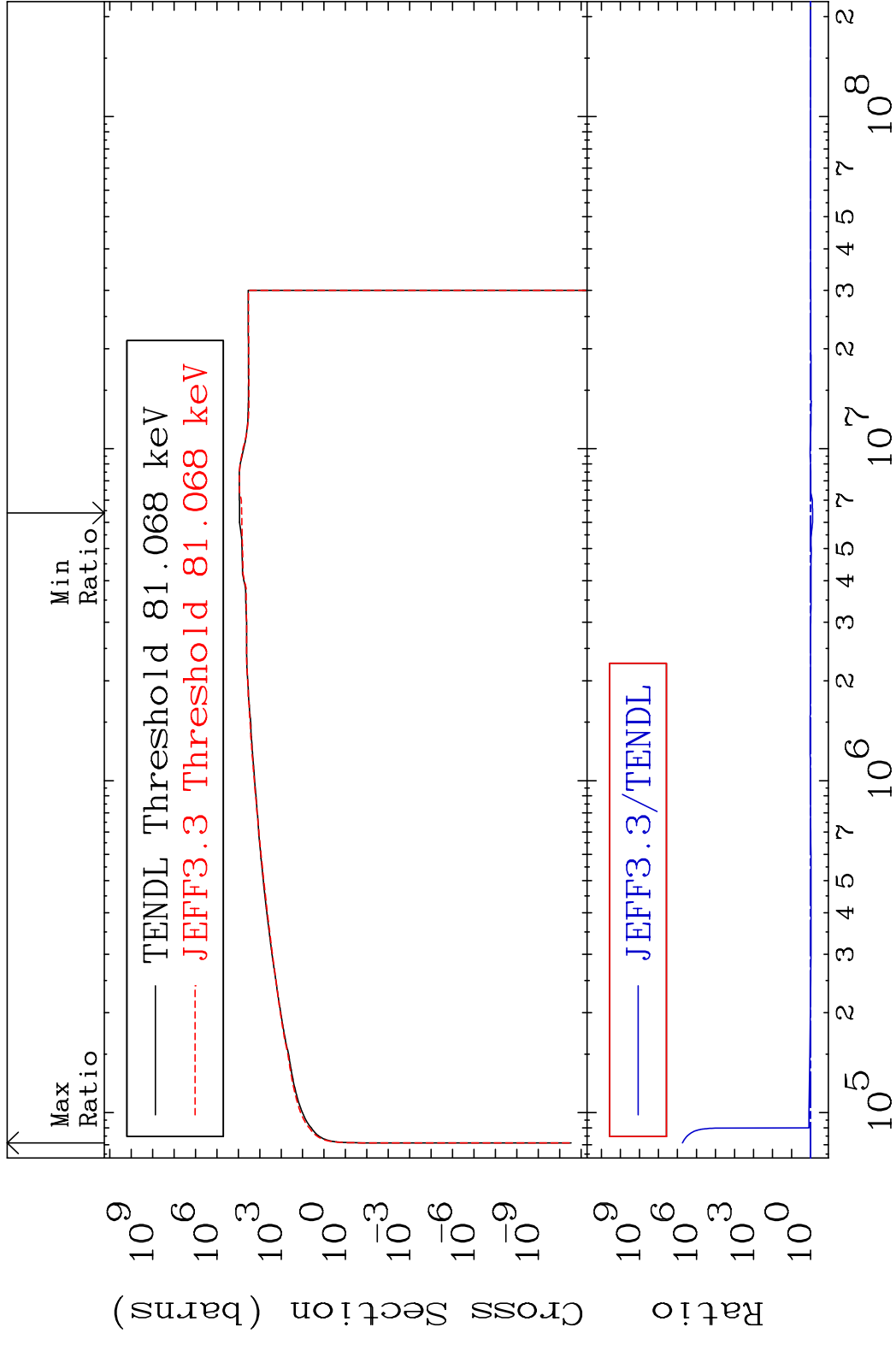


78

Incident Energy (eV)

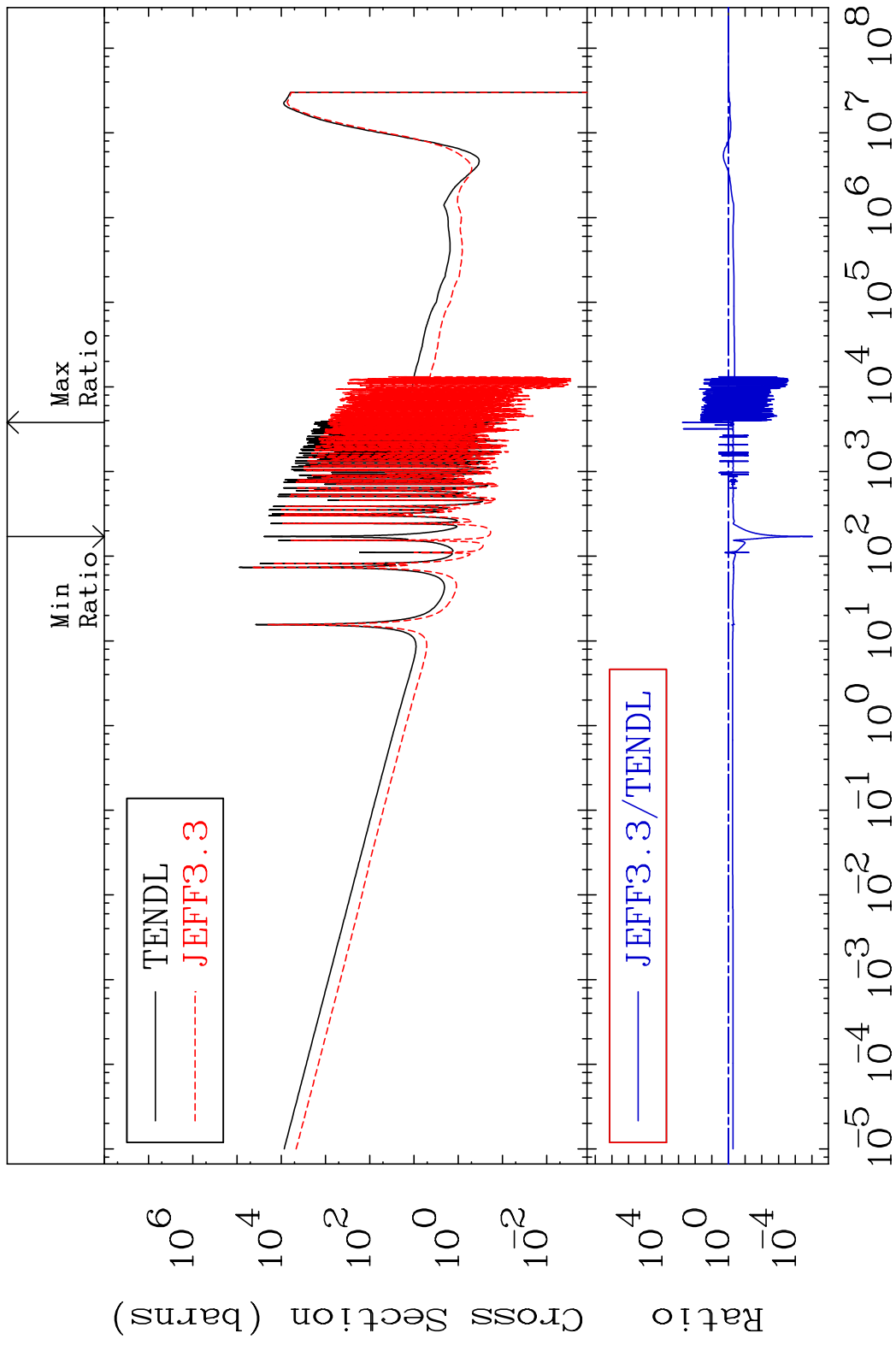
68-Er-166

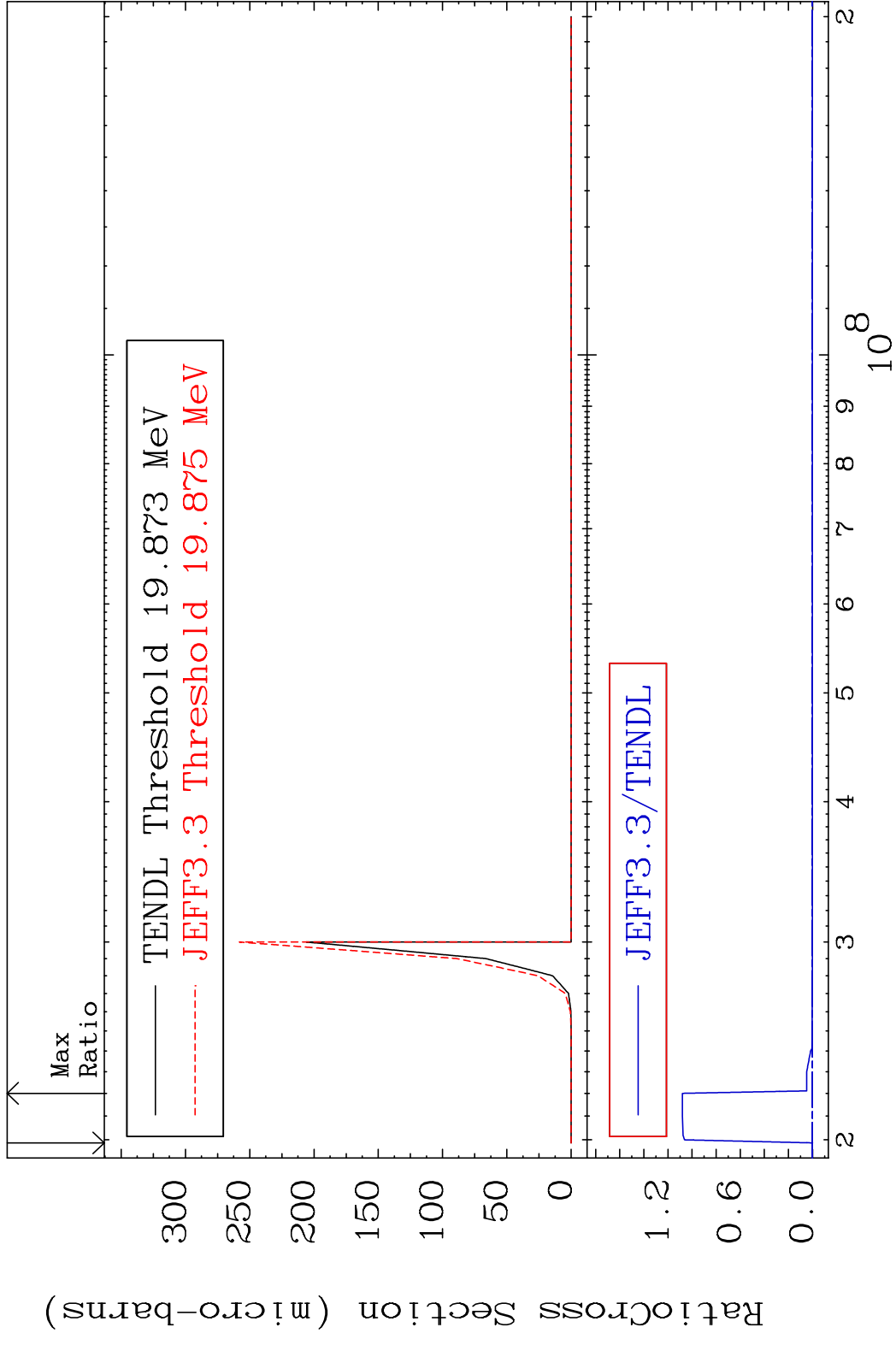
MAT 6837 Dpa inelastic (mt51-91) 68-Er-166
 Cross Section -20.92 To 9999. %

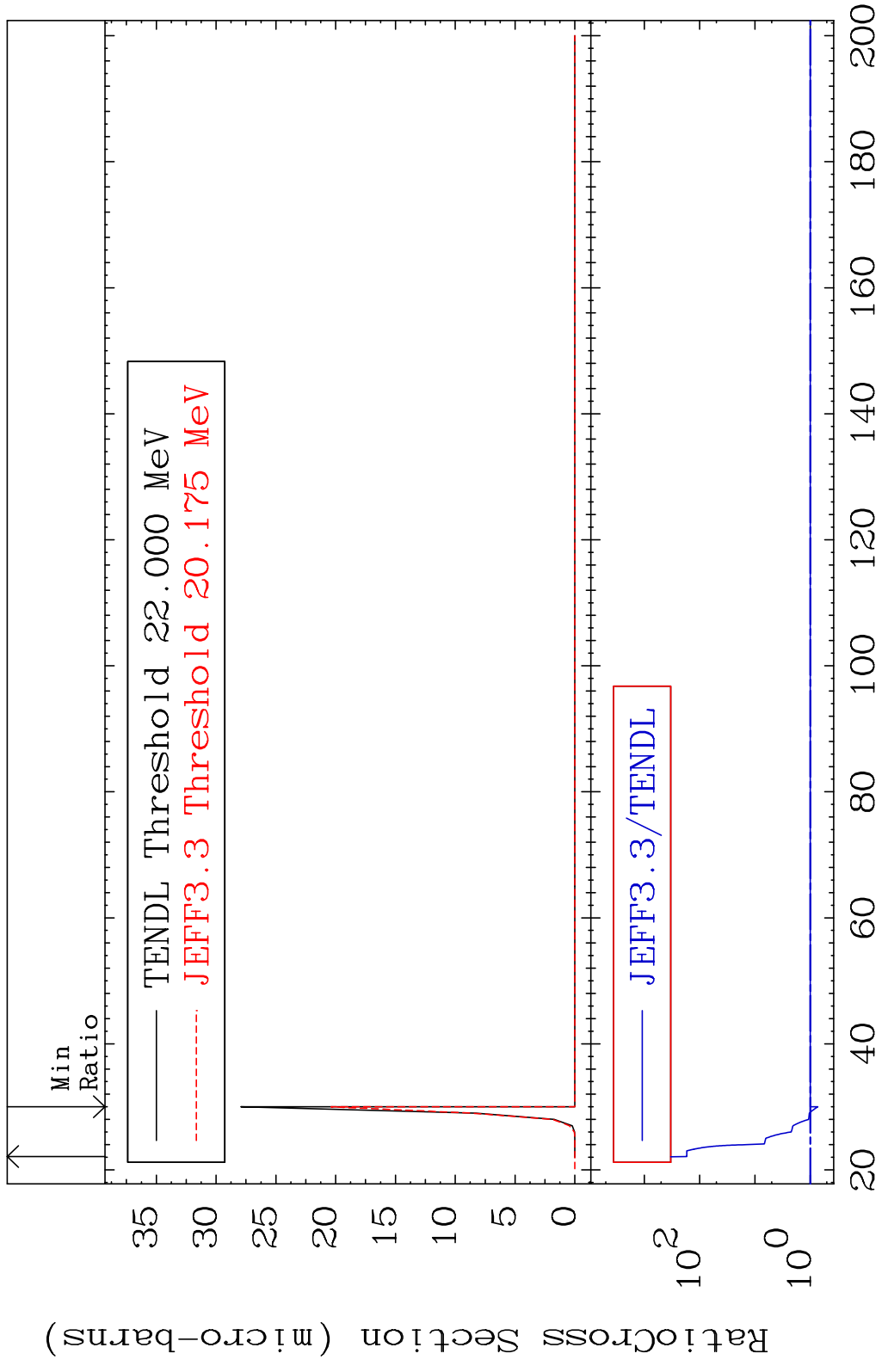


79 Incident Energy (eV) 68-Er-166

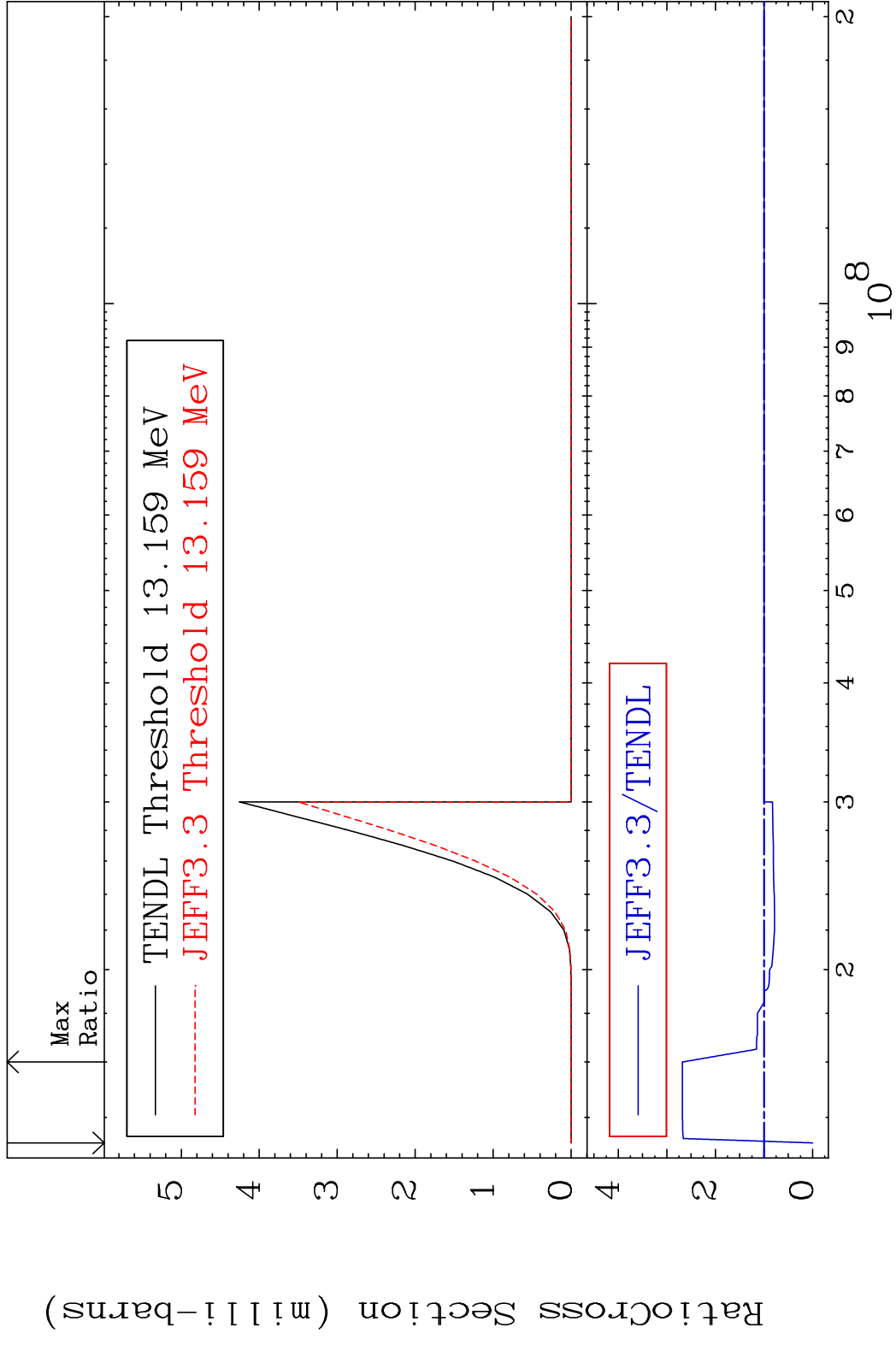
MAT 6837 Dpa disappearance (mt102 -120) 68-Er-166
 Cross Section -100.0 To 9999. %

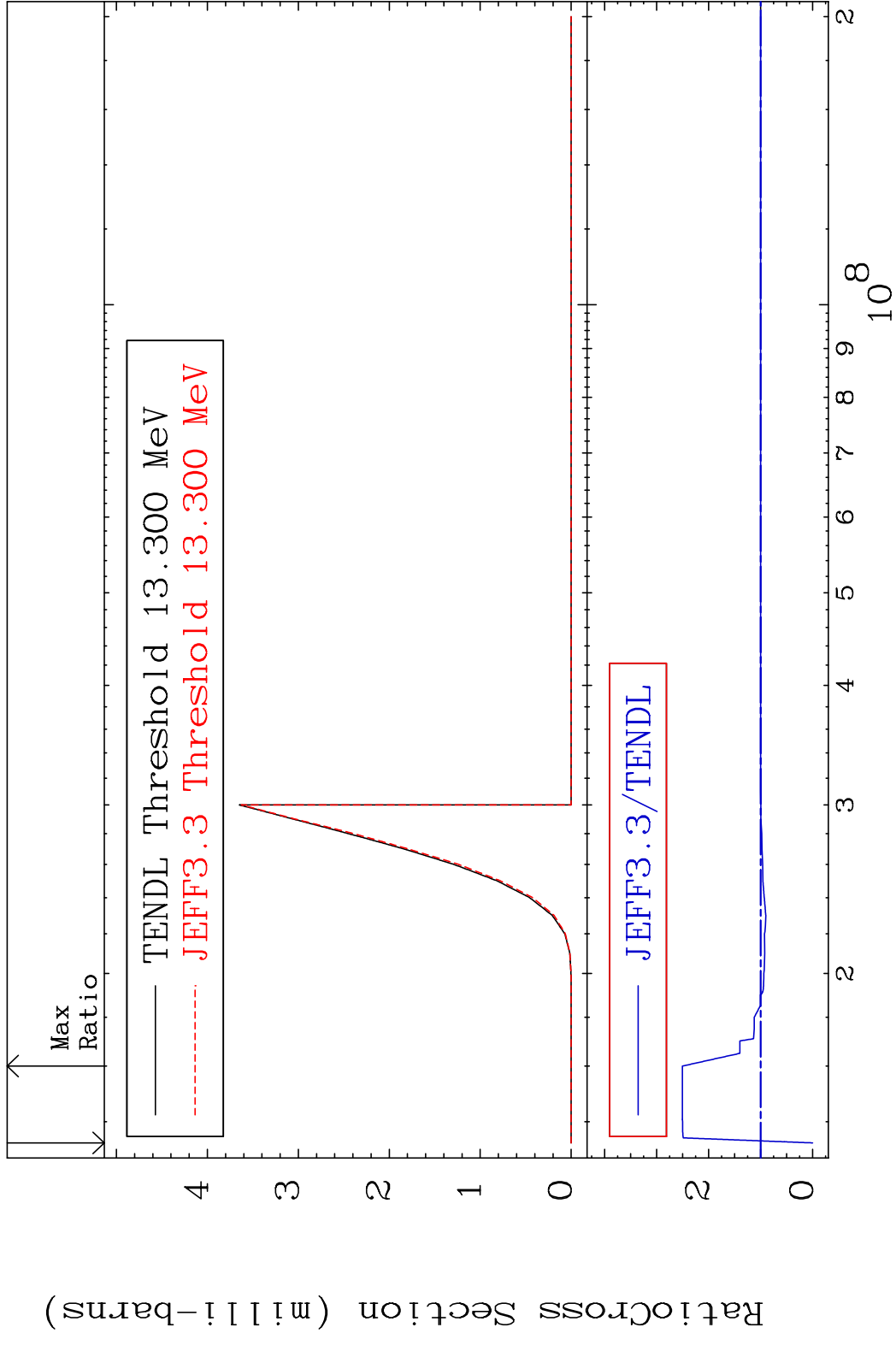




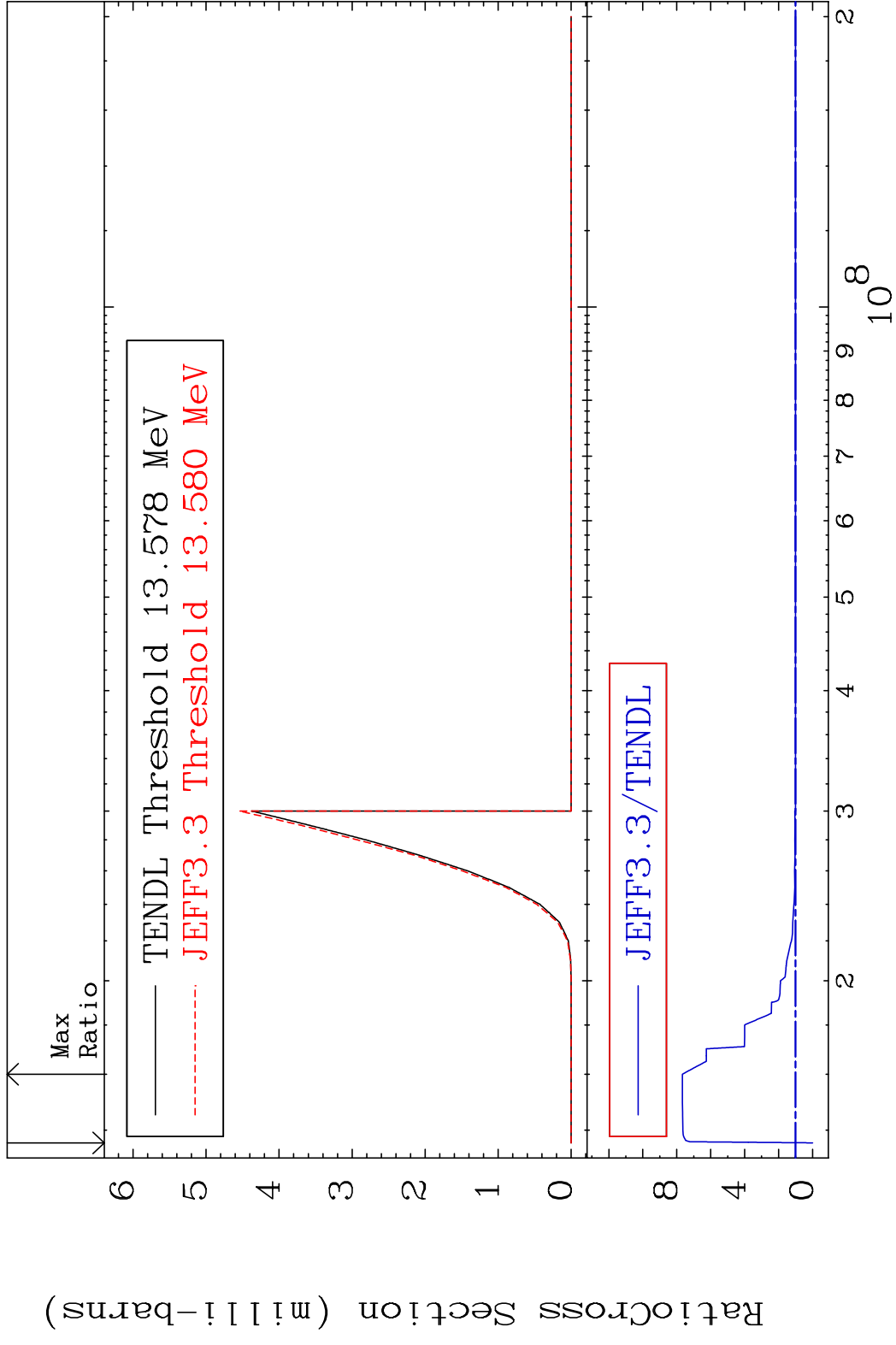


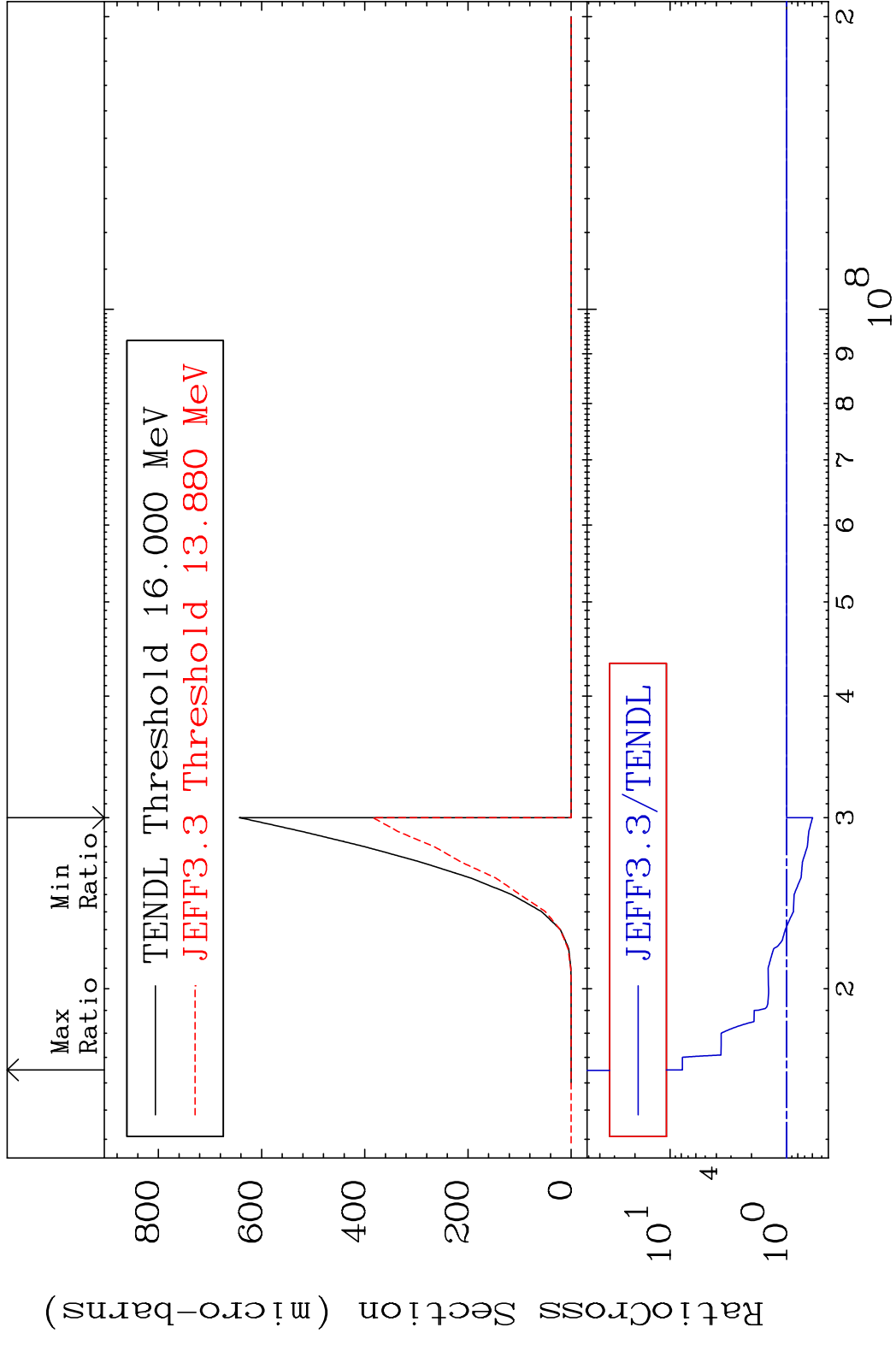
MAT 6837 (n, n') d:67-Ho-164g 68-Er-166
 Radionuclide Production Cross Section 168.0 %

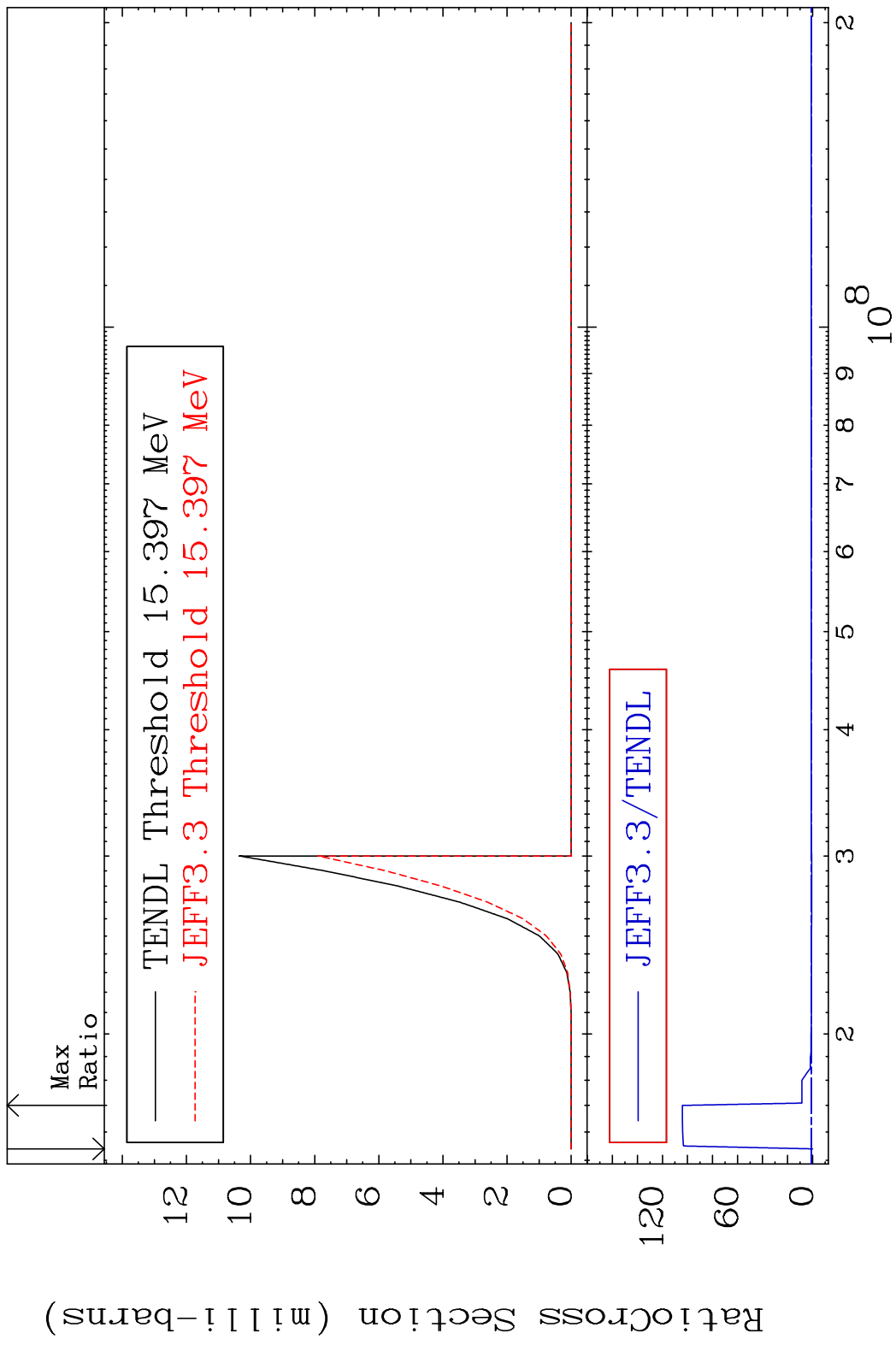


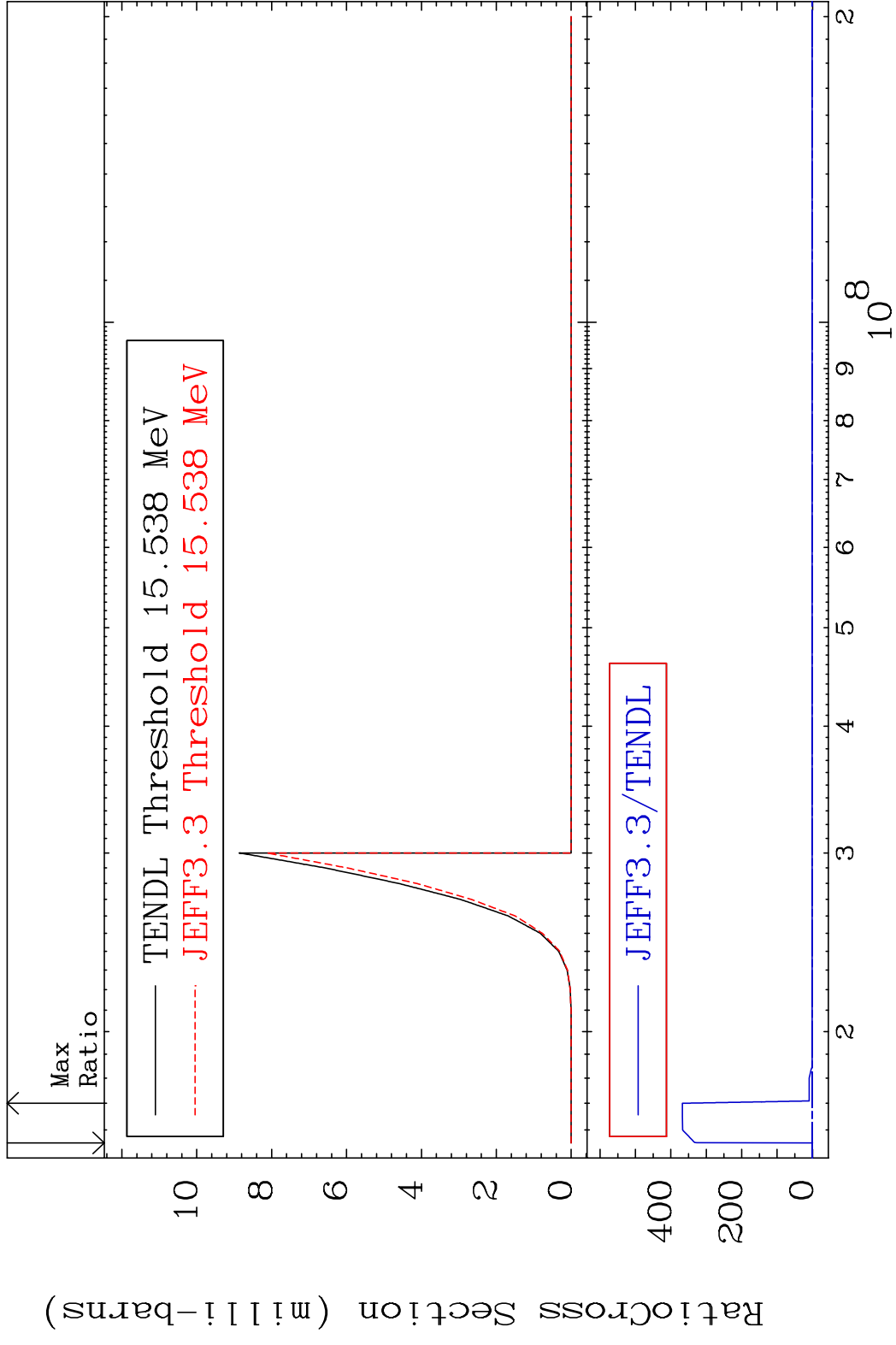


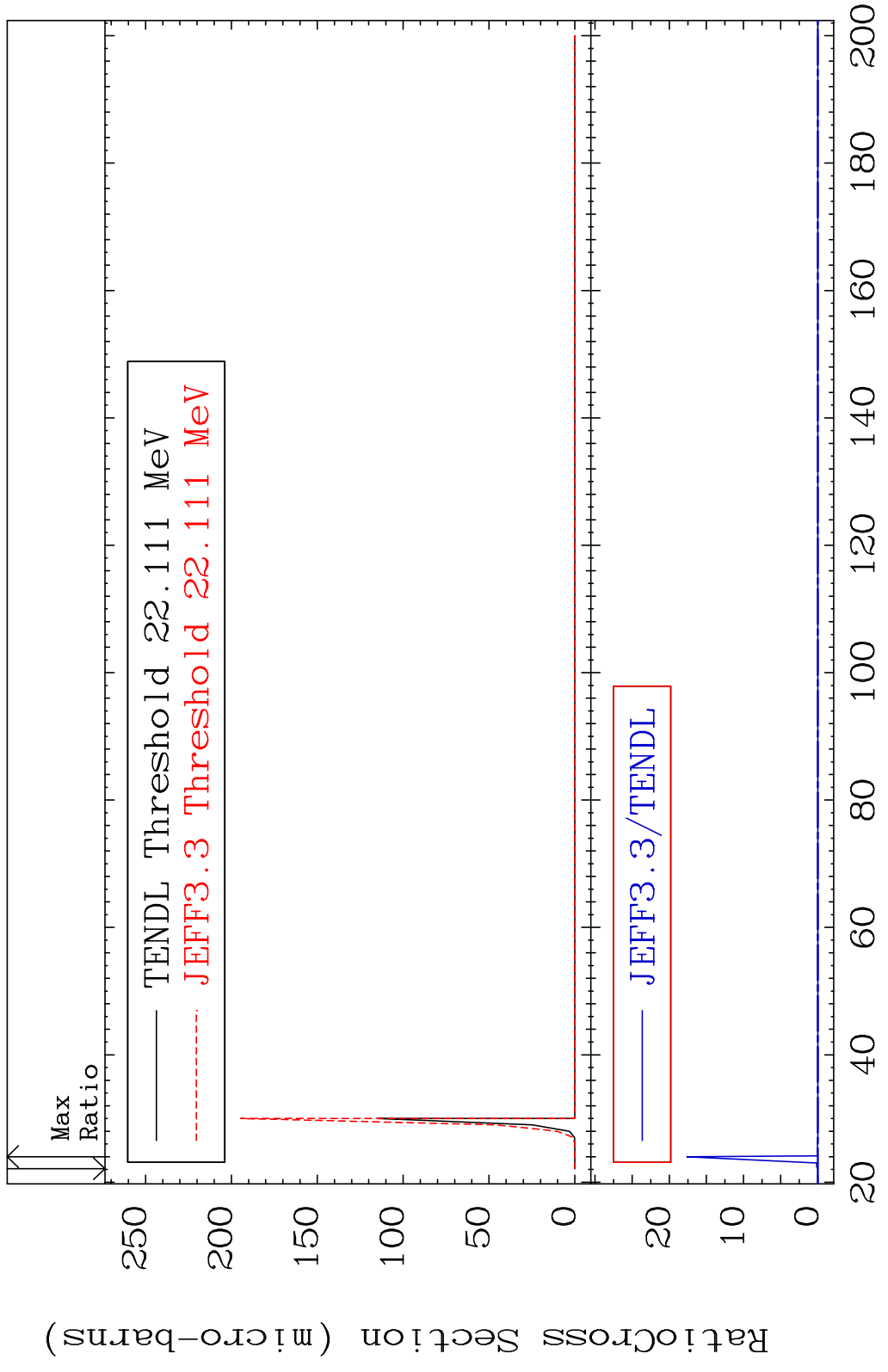
MAT 6837 (n, n') t:67-Ho-163g 68-Er-166
 Radionuclide Production Cross Section 1800 d to 667.0 %

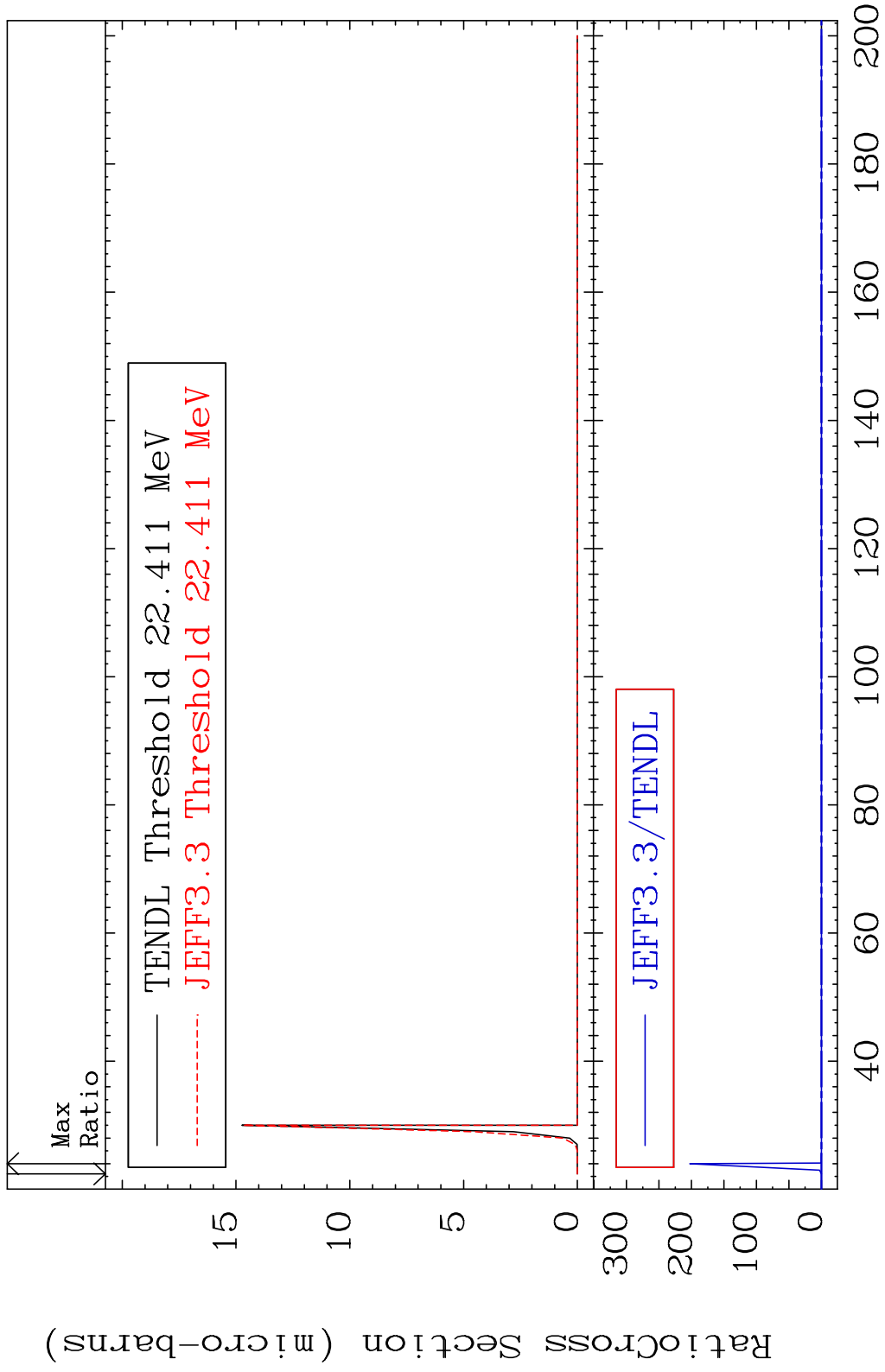


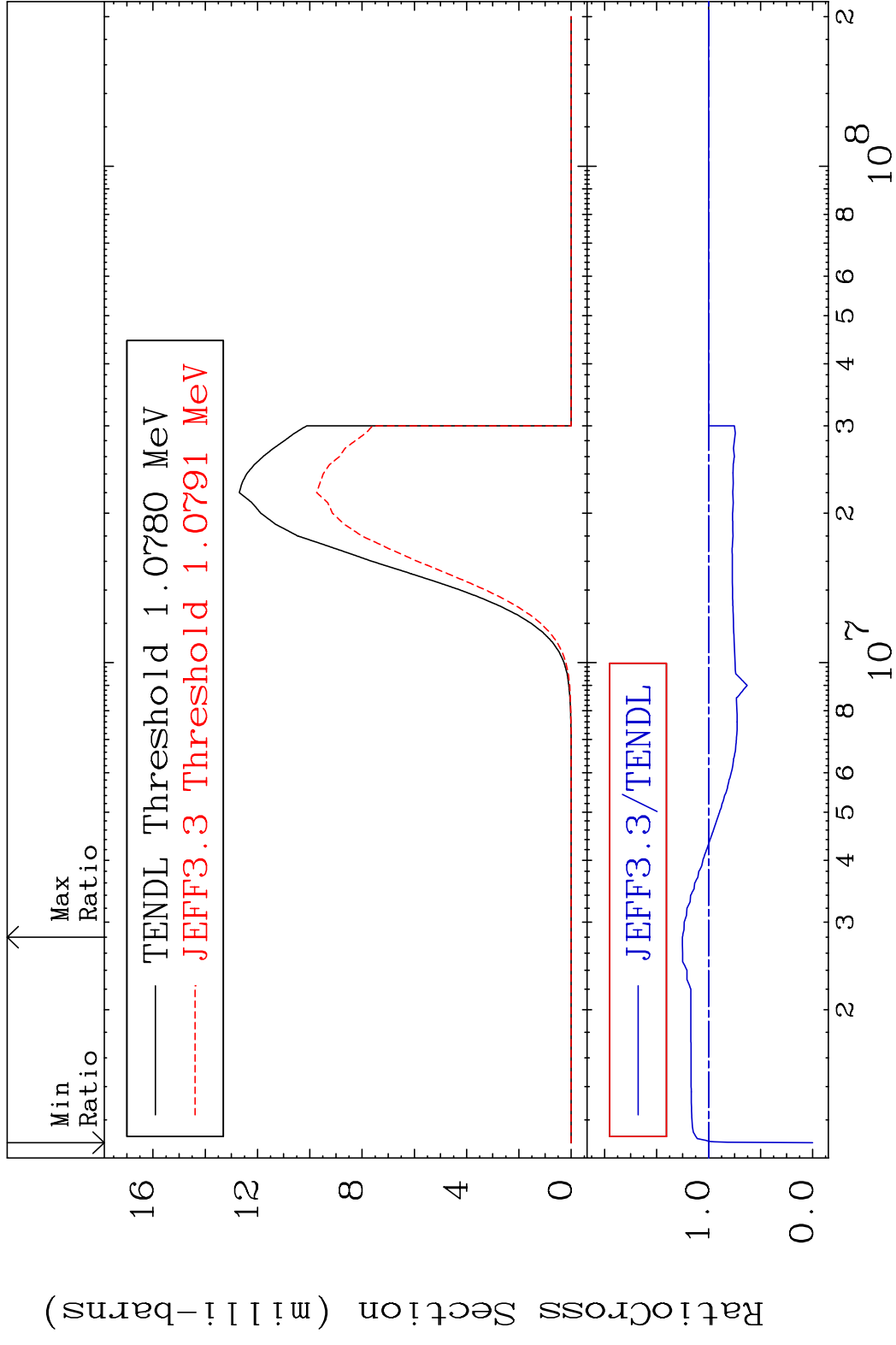


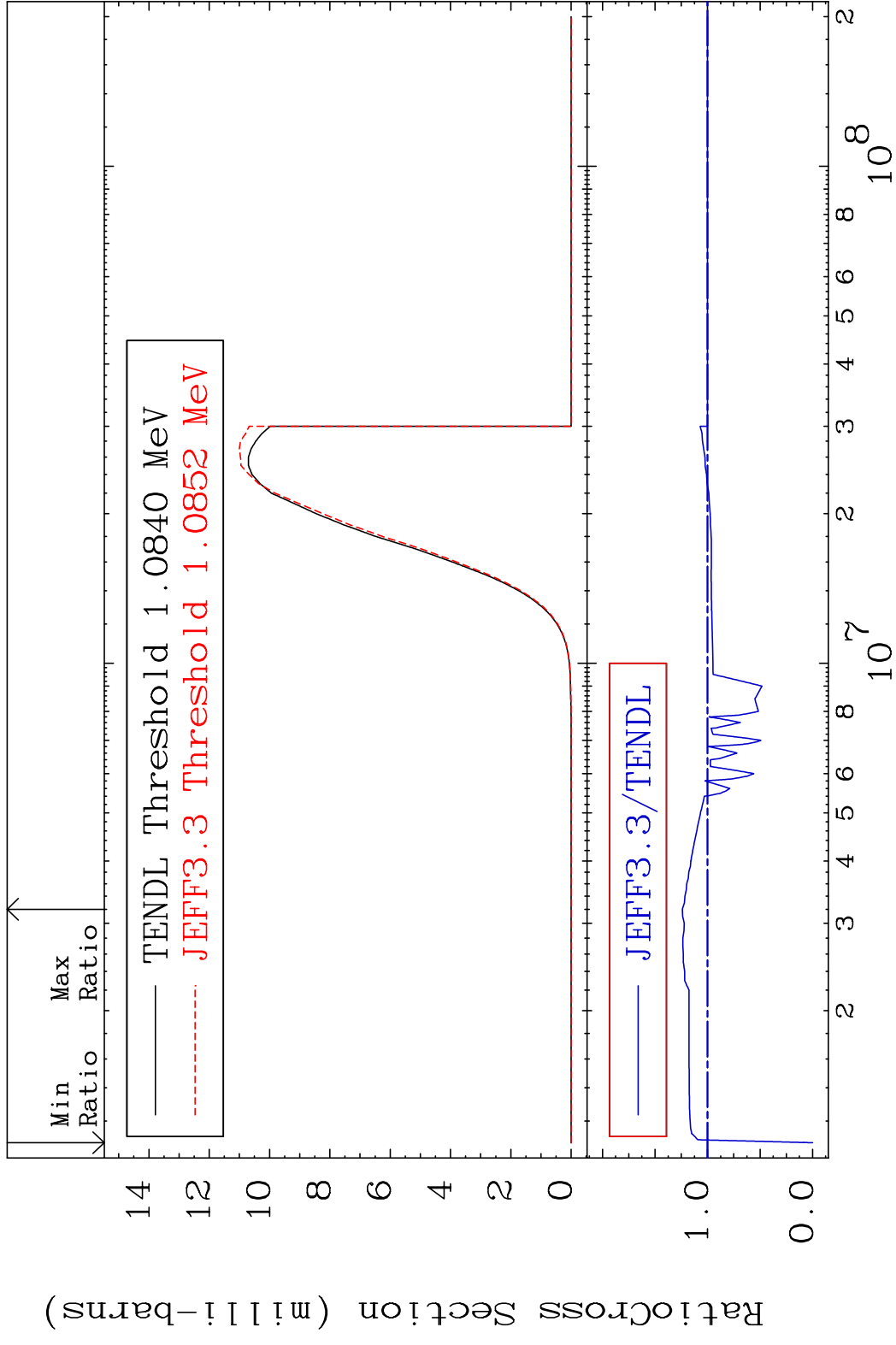




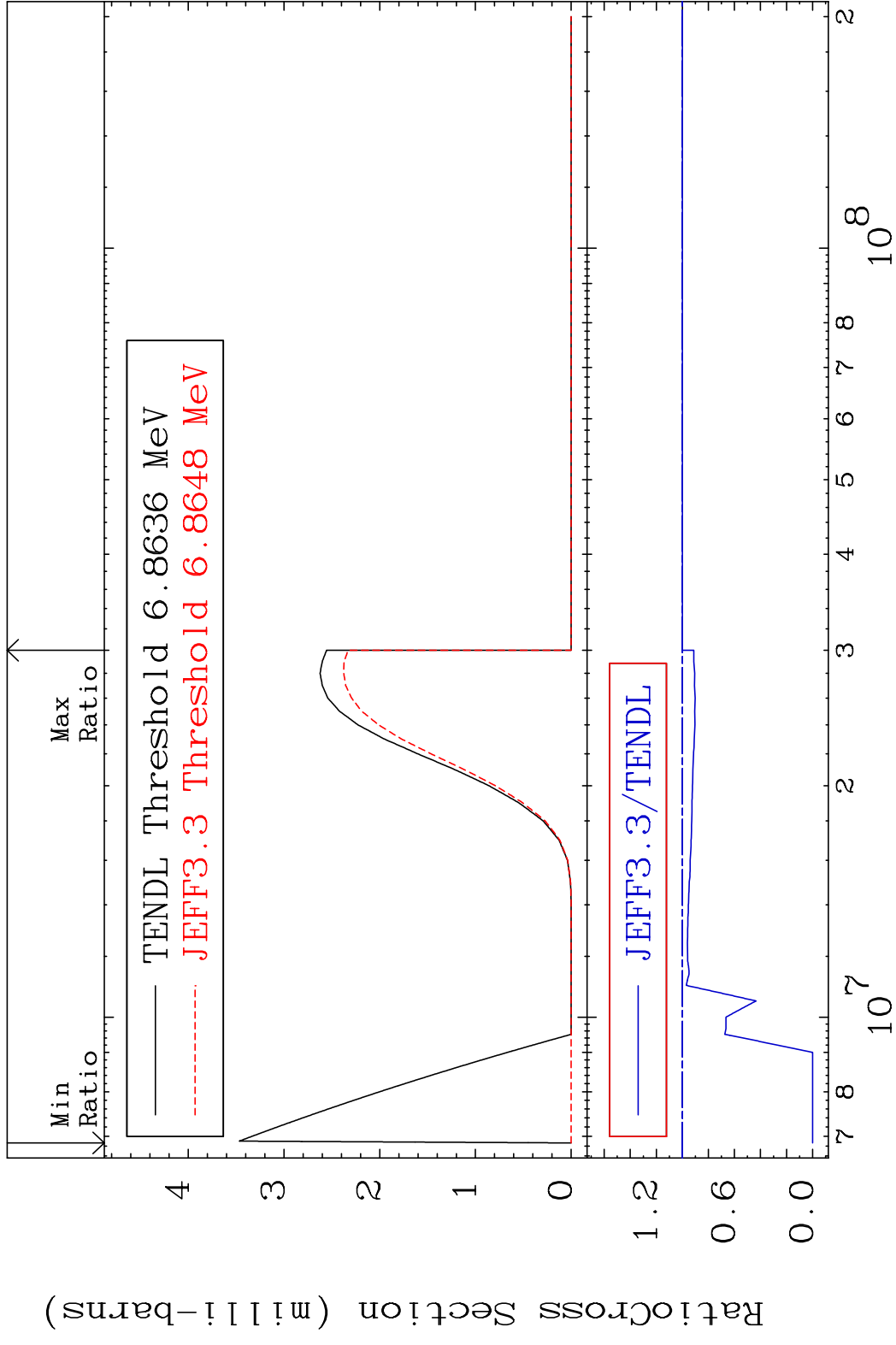


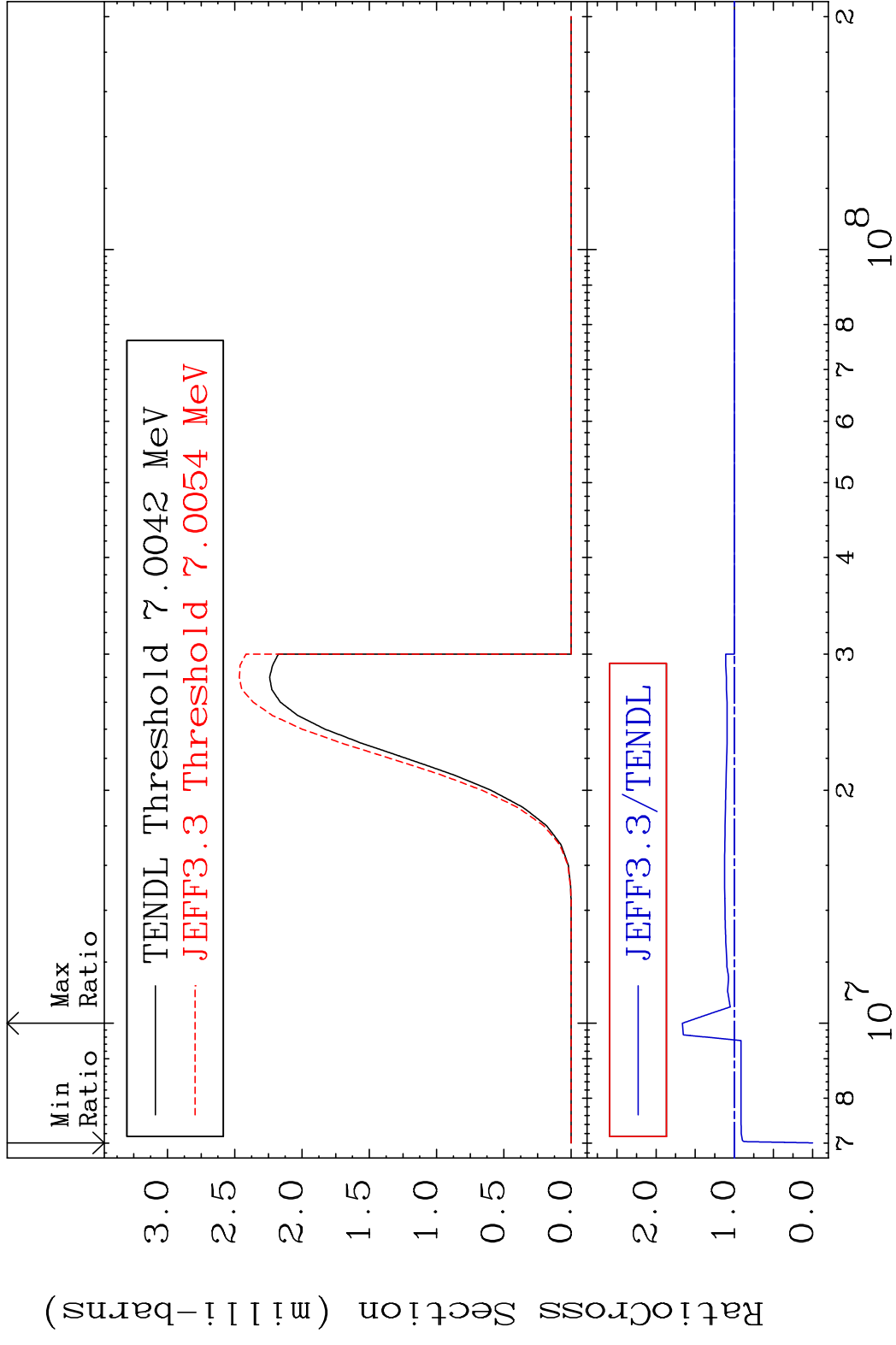






MAT 6837 (n, t):67-Ho-164g 68-Er-166
 Radionuclide Production Cross Section 180.01 dth 0.000 %





MAT 6837 (n,2p):66-Dy-165g 68-Er-166
 Radionuclide Production Cross Section 180.01 dth 11.10 %

