

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

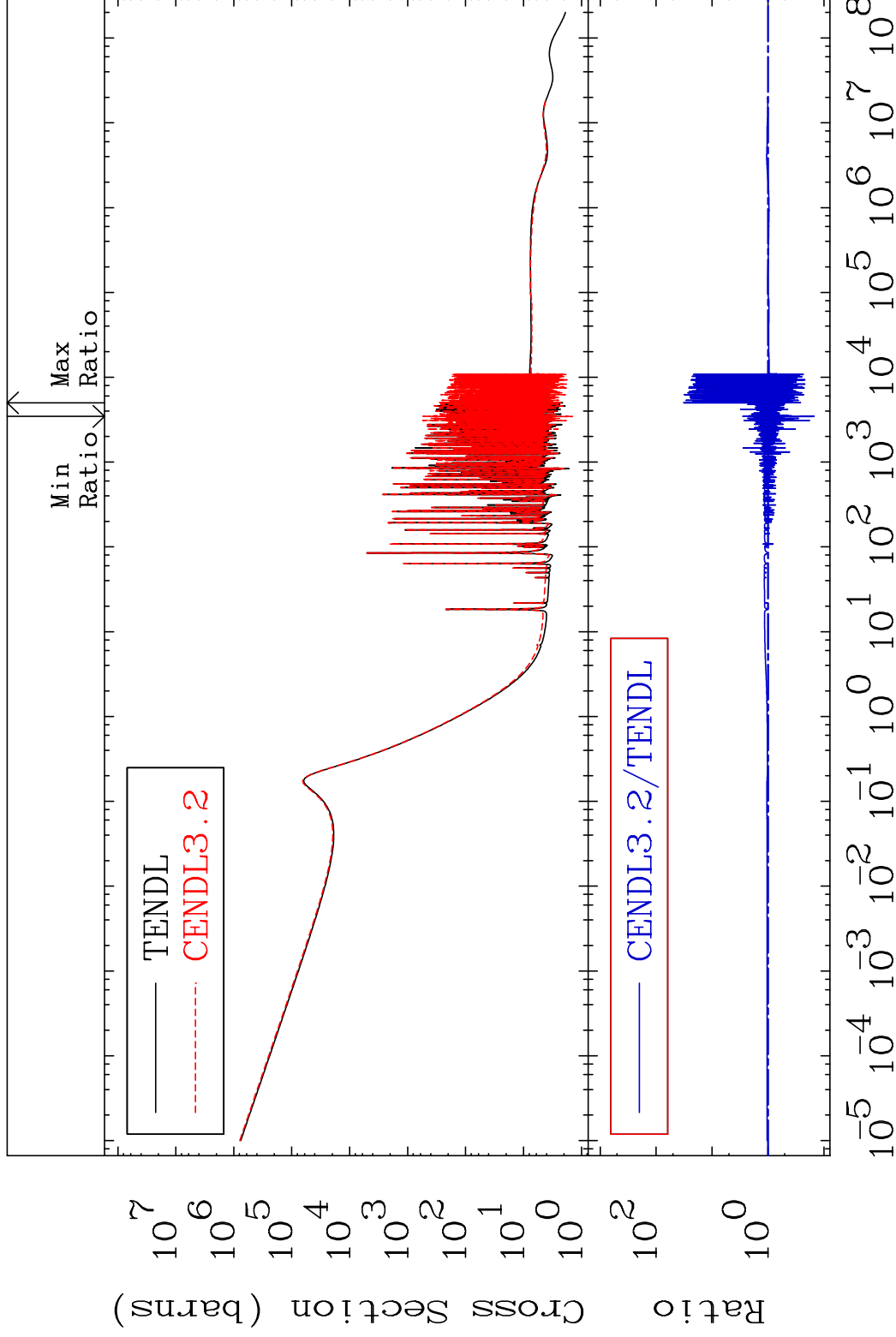
Press Mouse Button to Start

MAT 4846

Total

48-Cd-113

Cross Section -85.05 To 3119. %



1

Incident Energy (eV)

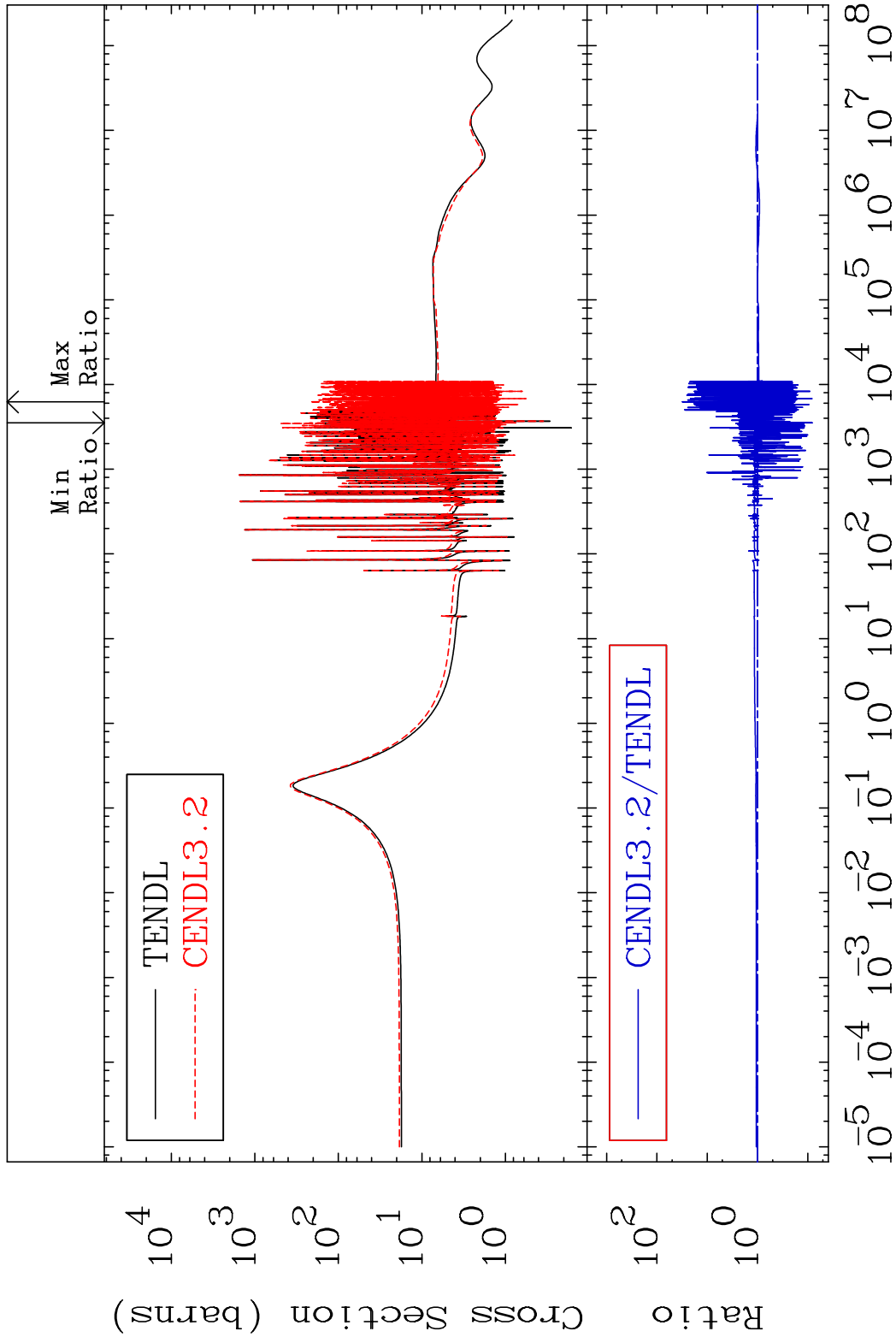
48-Cd-113

MAT 4846

Elastic

48-Cd-113

Cross Section -91.95 To 3020. %

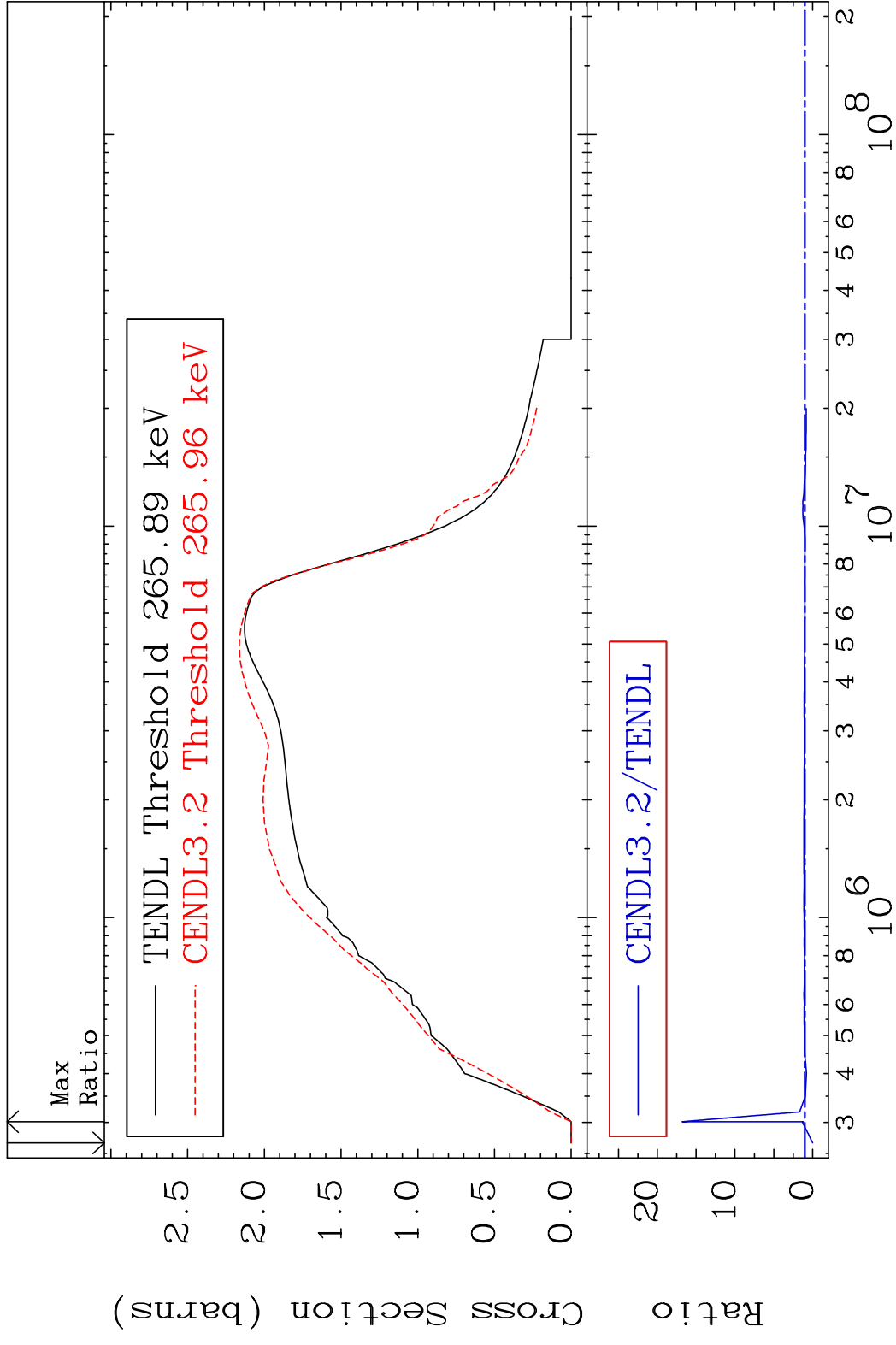


2

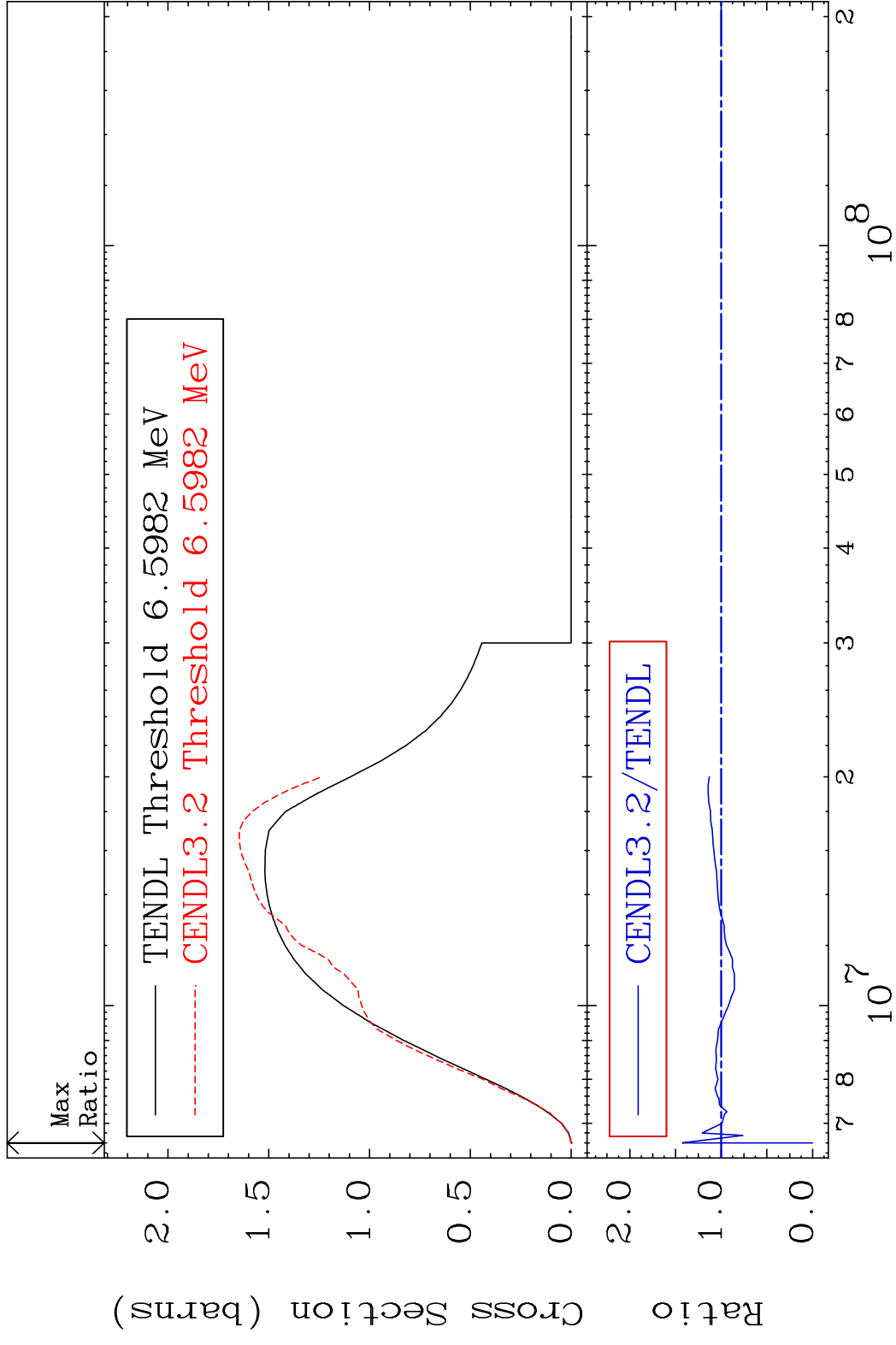
Incident Energy (eV)

48-Cd-113

MAT 4846 Inelastic 48-Cd-113
 Cross Section -100.0 To 1578. %



MAT 4846 (n,2n) 48-Cd-113
 Cross Section -100.0 To 42.52 %



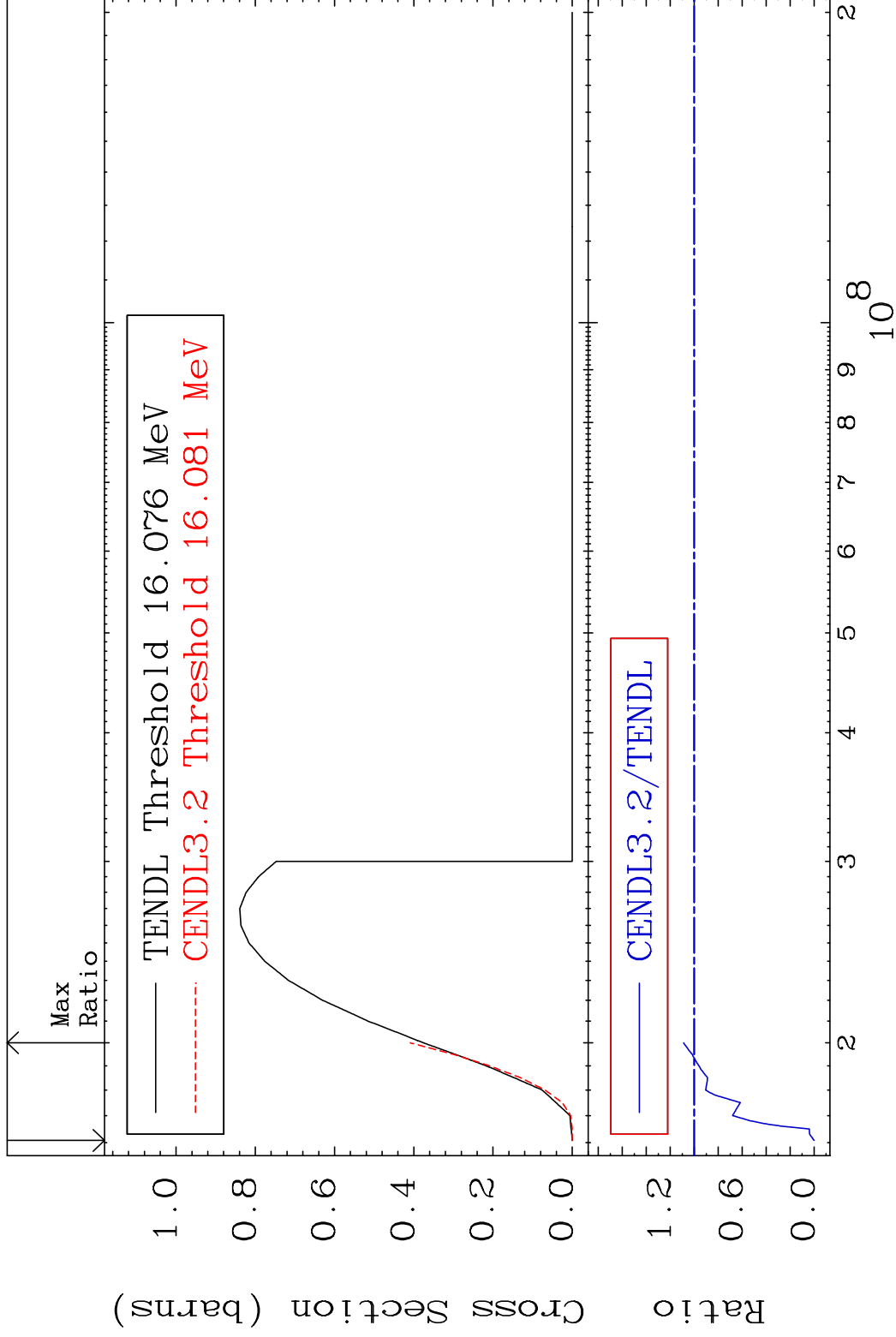
4 Incident Energy (eV) 48-Cd-113

MAT 4846

(n,3n)

48-Cd-113

Cross Section -100.0 To 8.824 %



5

Incident Energy (eV)

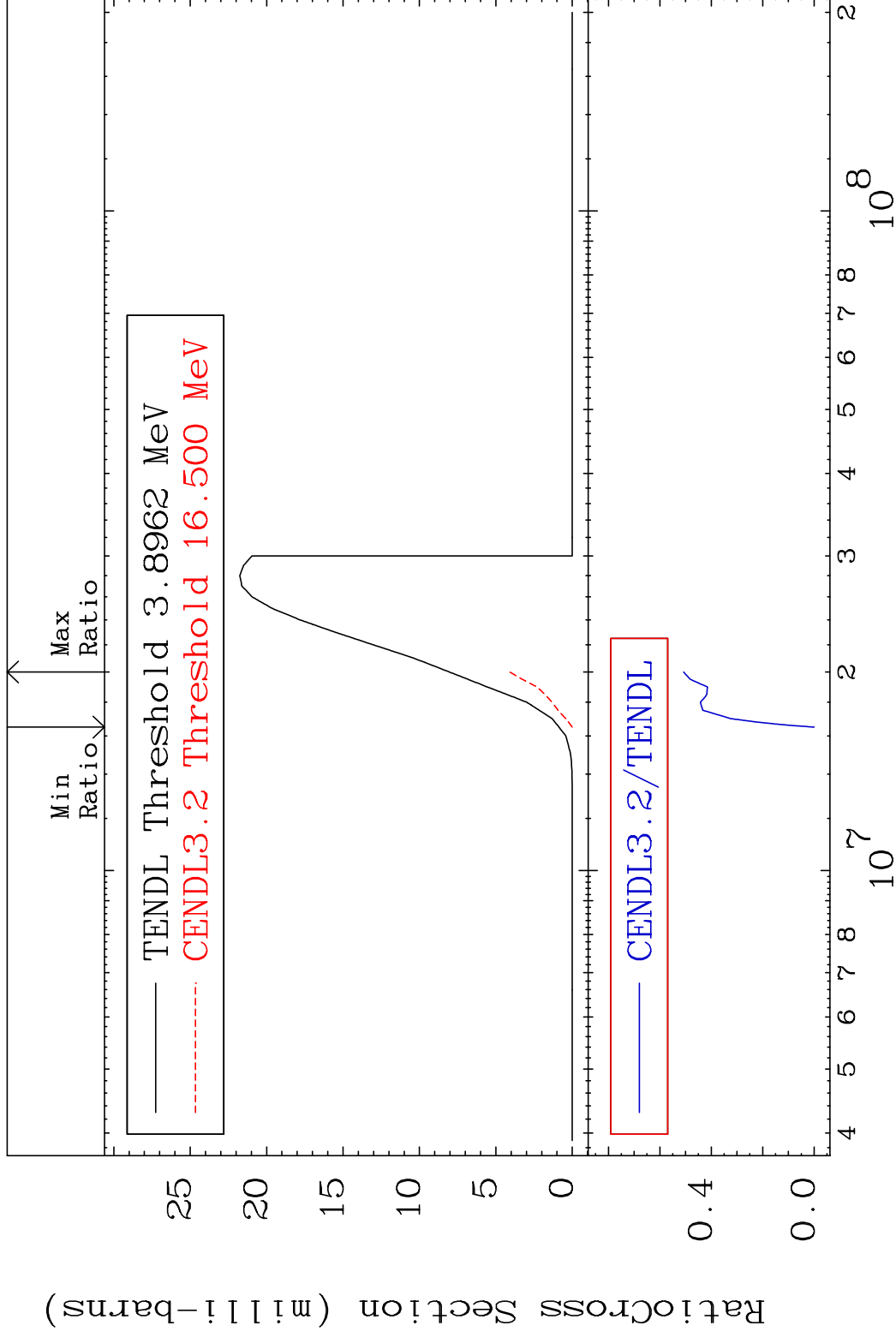
48-Cd-113

MAT 4846

(n, n') α

48-Cd-113

Cross Section -100.0 To -49.26%



6

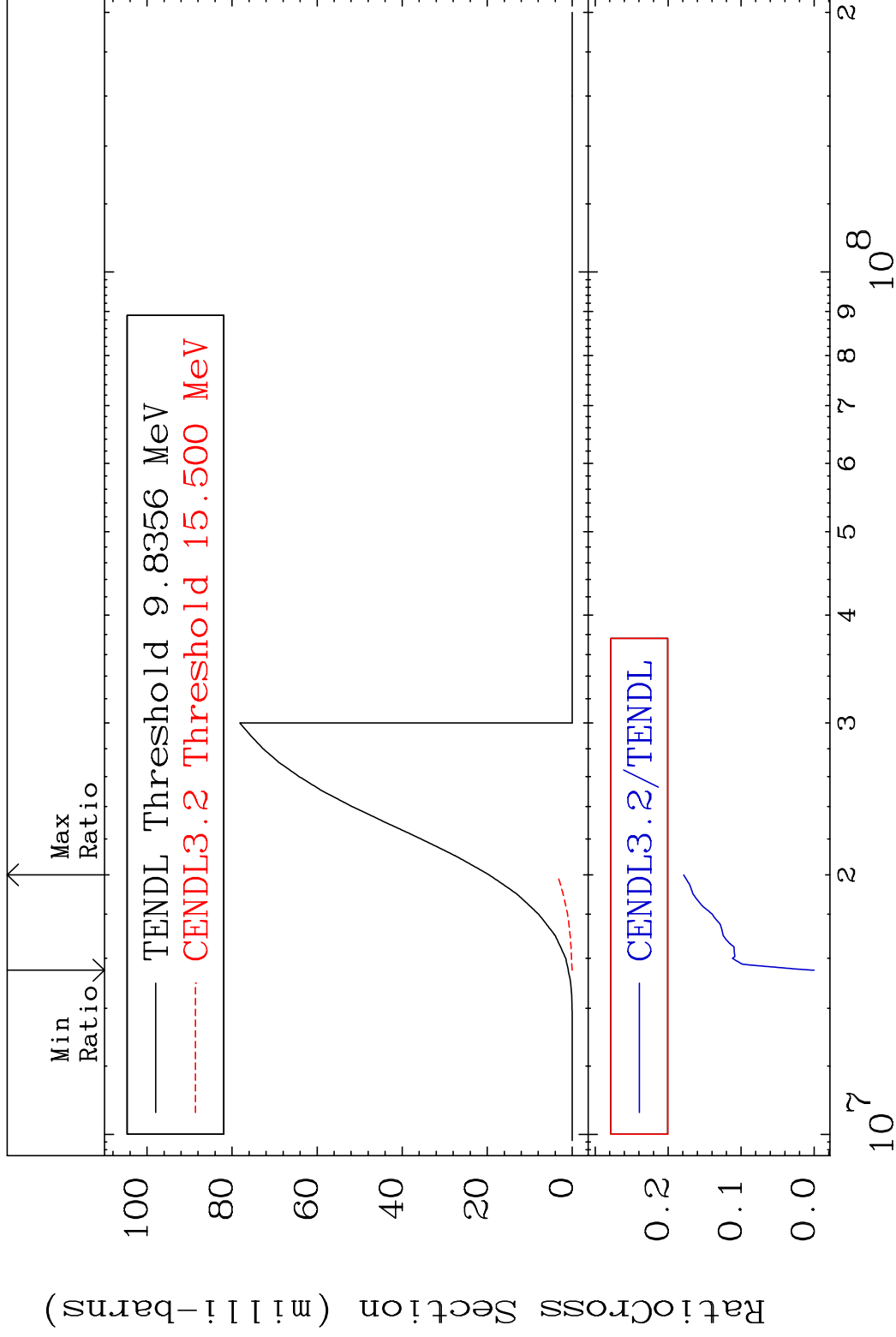
Incident Energy (eV)

48-Cd-113

MAT 4846

(n, n') p 48-Cd-113

Cross Section -100.0 To -82.12%

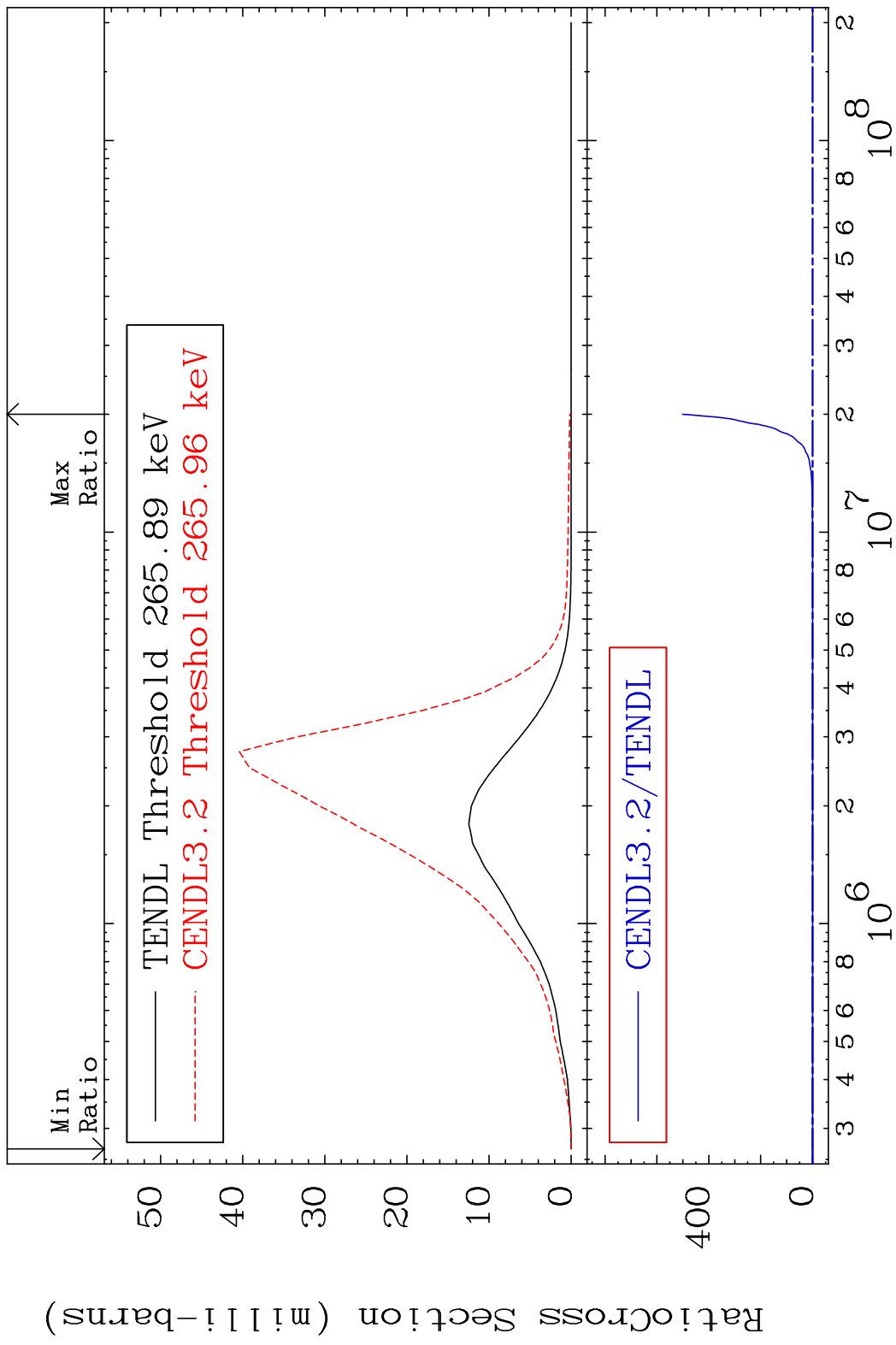


7

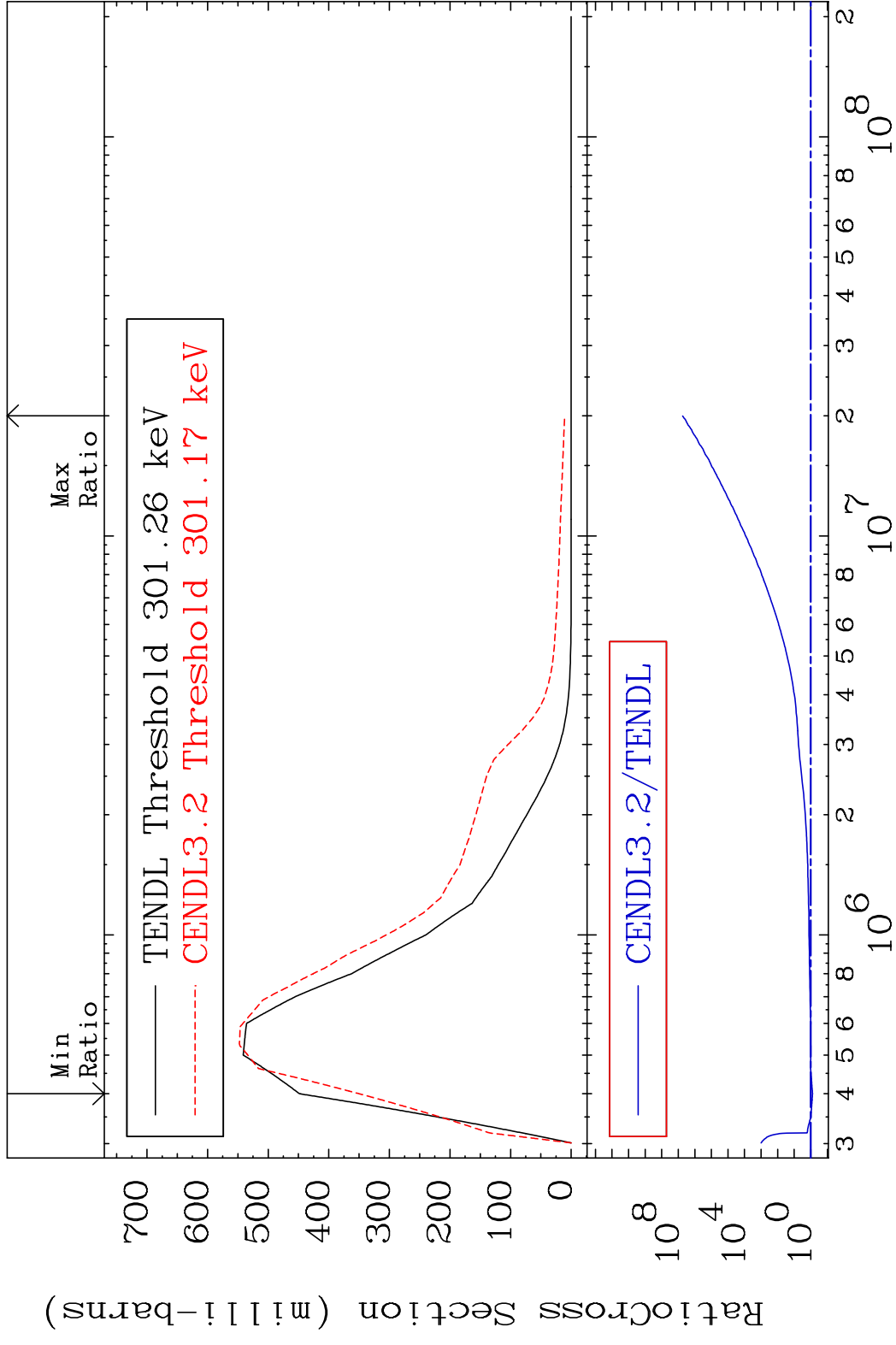
Incident Energy (eV)

48-Cd-113

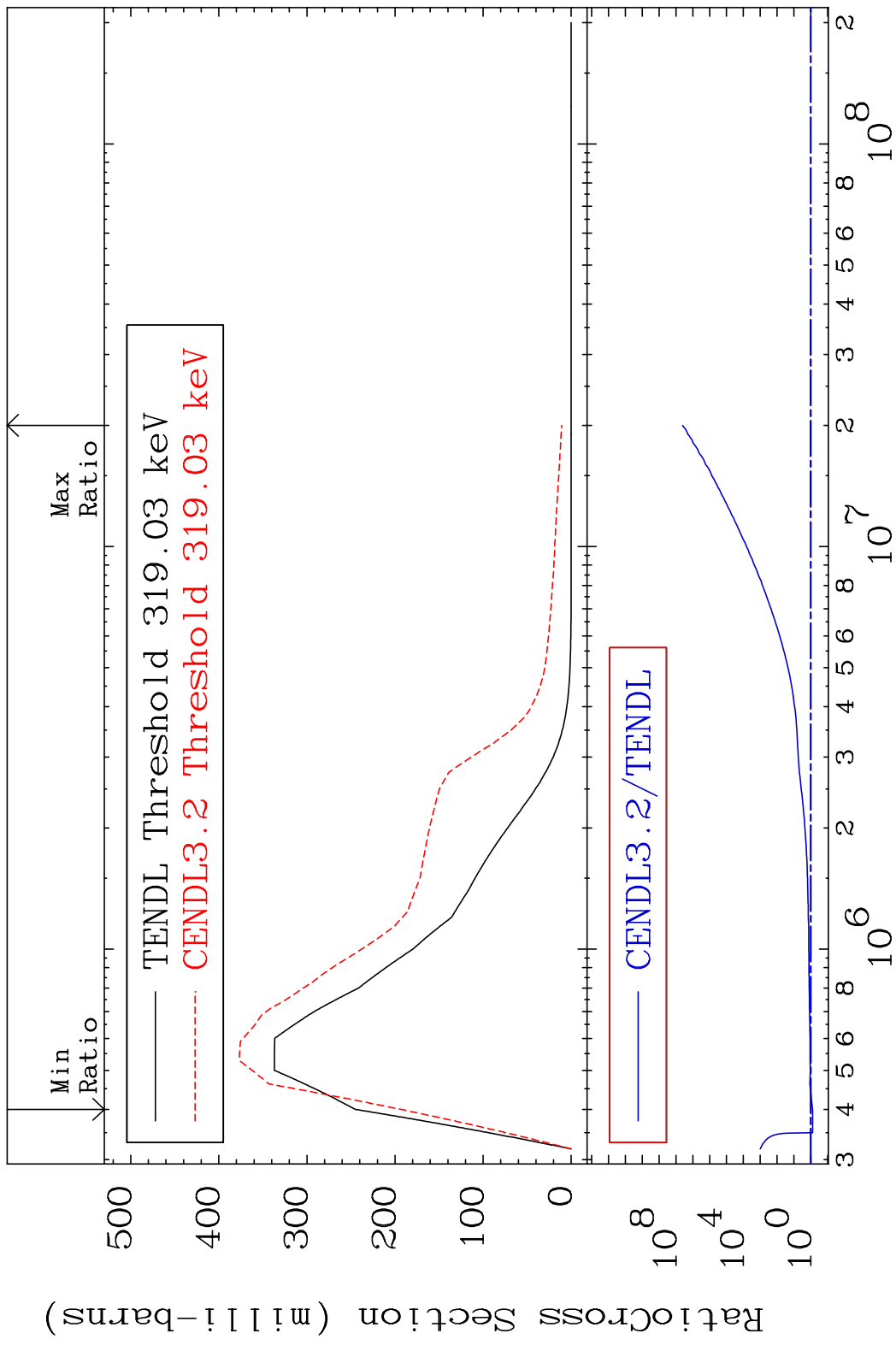
MAT 4846 MT= 51 (n,n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %



MAT 4846 MT= 52 (n,n') Level 48-Cd-113
 Cross Section -21.97 To 9999. %

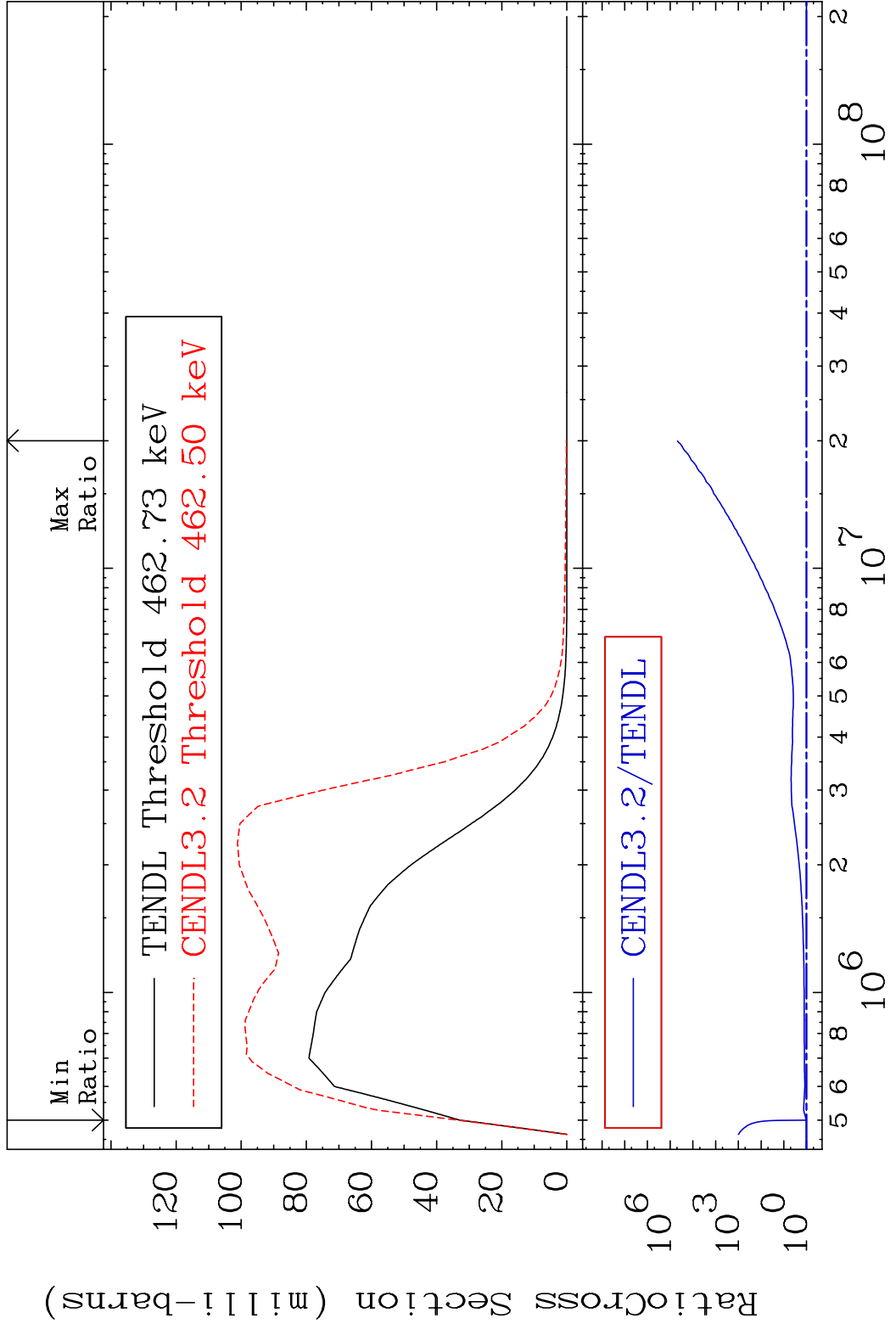


MAT 4846 MT= 53 (n, n') Level 48-Cd-113
 Cross Section -20.98 To 9999. %

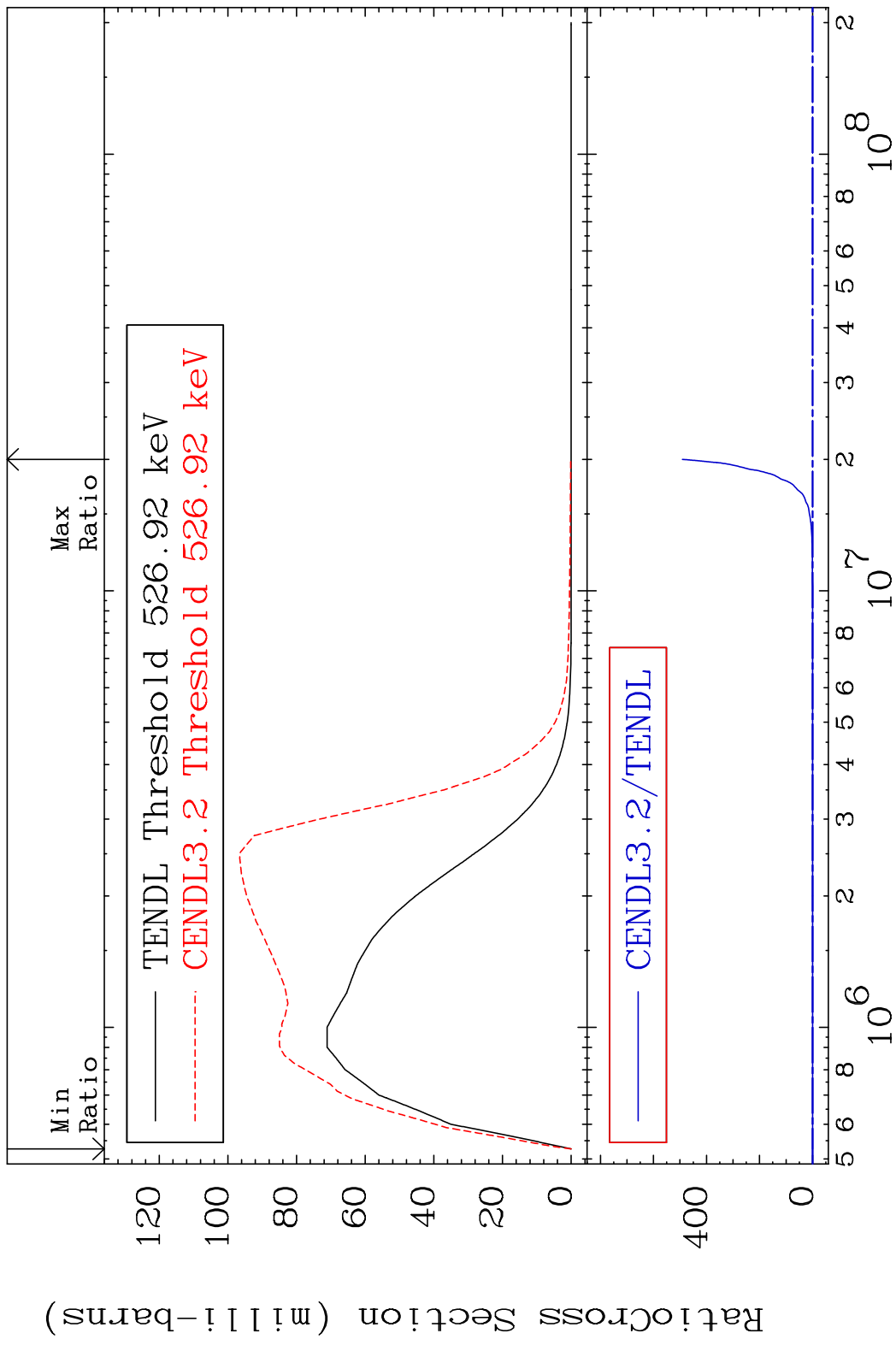


10 Incident Energy (eV) 48-Cd-113

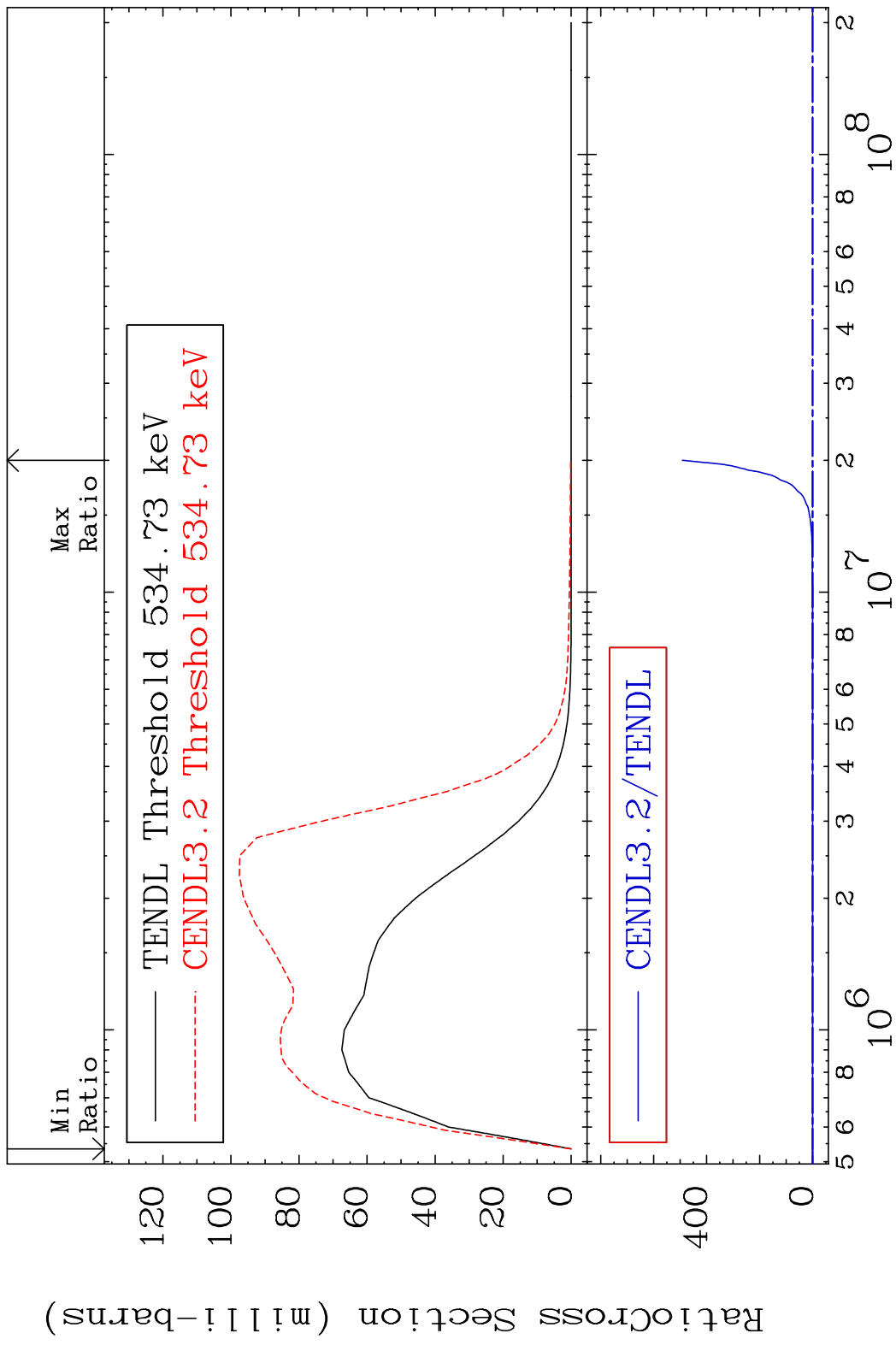
MAT 4846 MT= 54 (n, n') Level 48-Cd-113
 Cross Section 1.535 To 9999. %



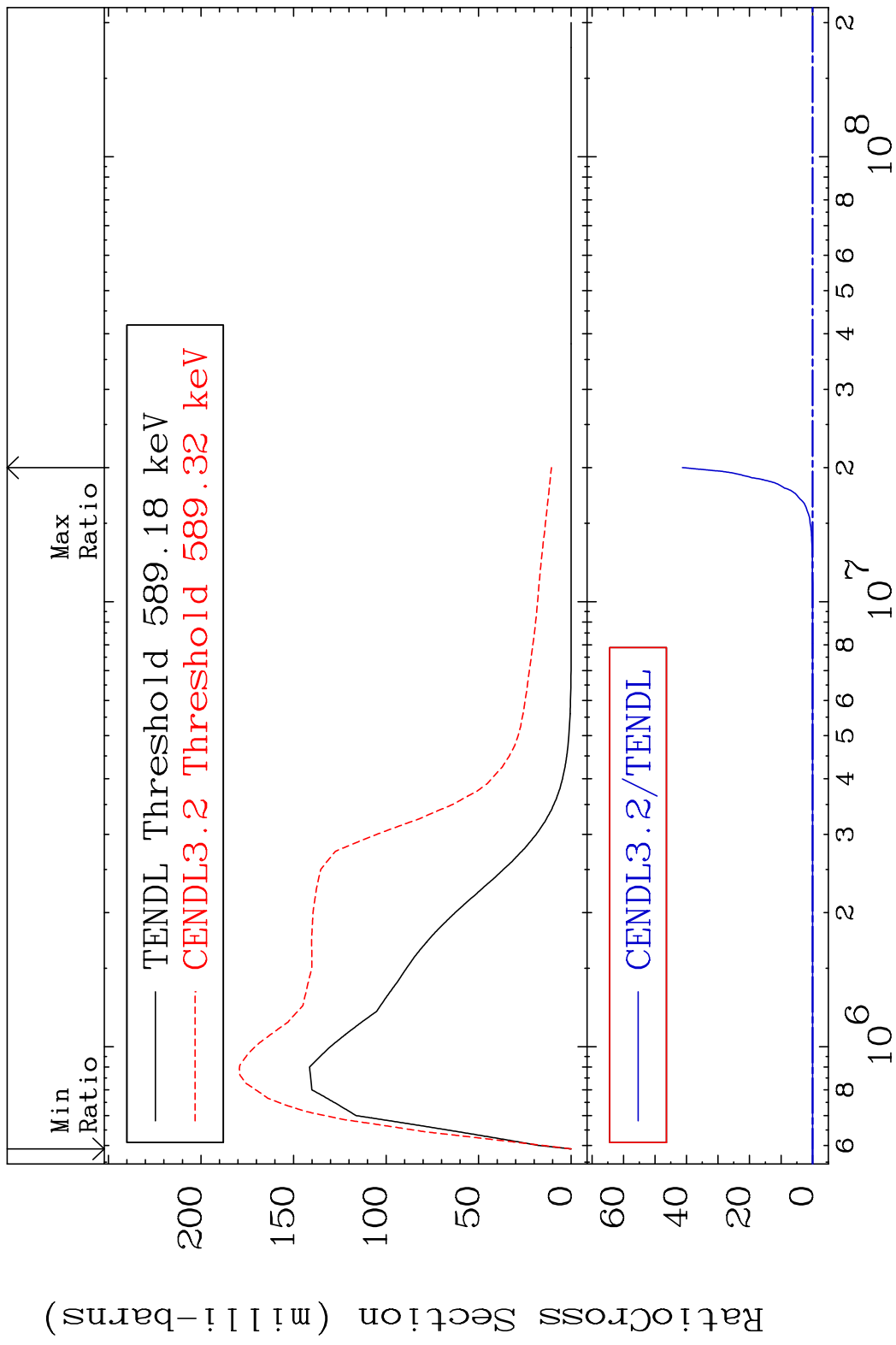
MAT 4846 MT= 55 (n,n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %



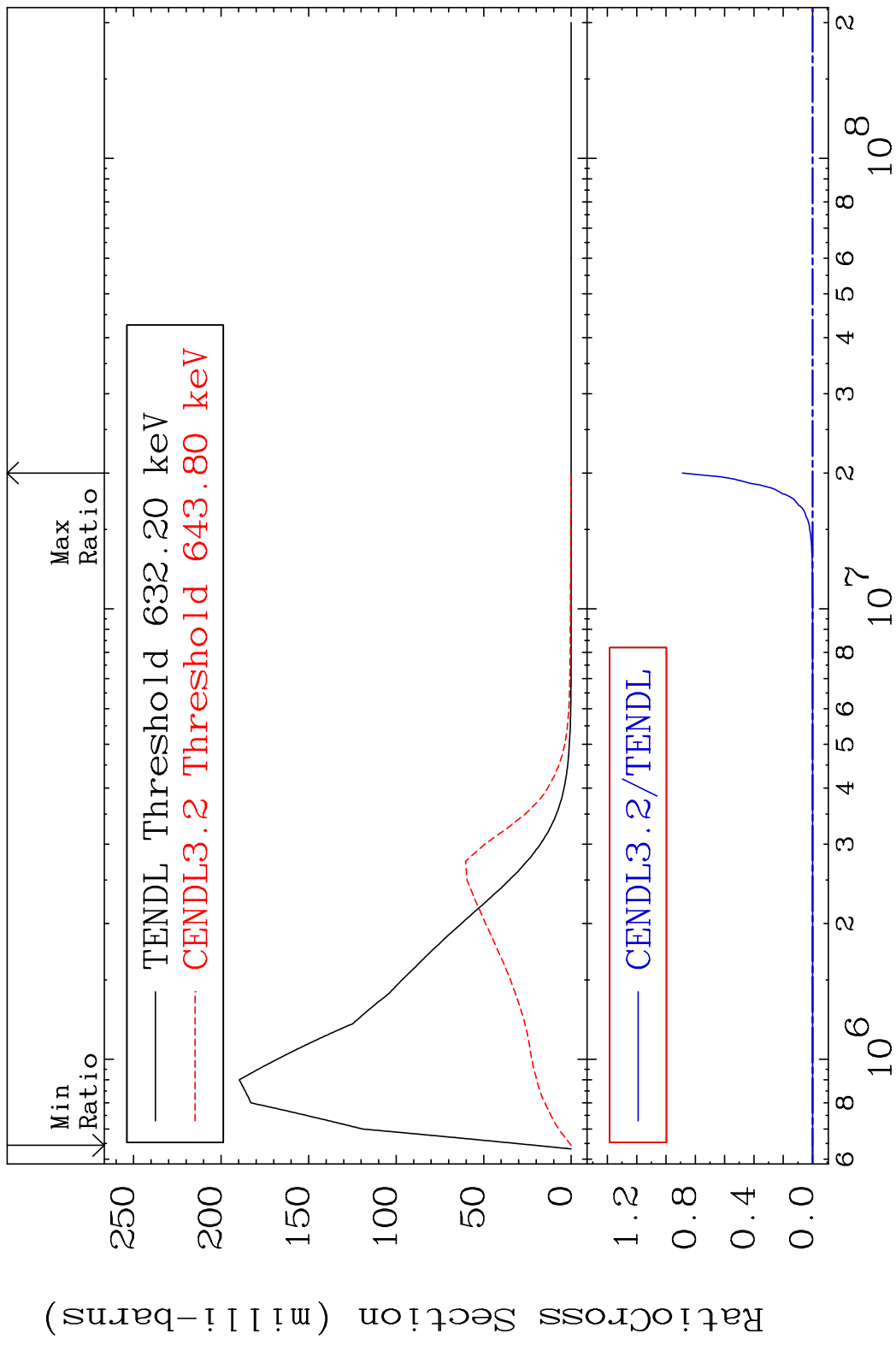
MAT 4846 MT= 56 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %



MAT 4846 MT= 57 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %

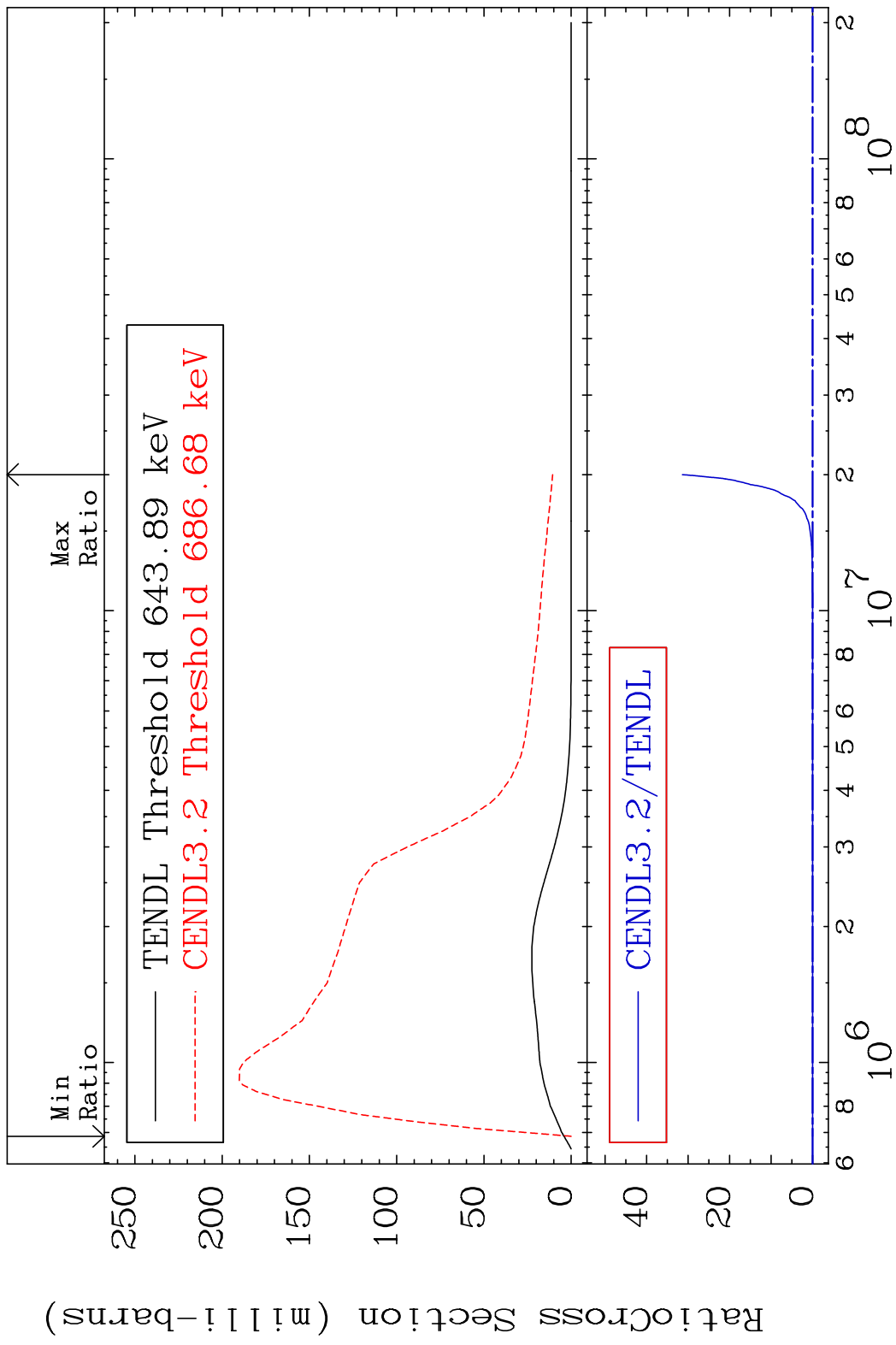


MAT 4846 MT= 58 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %

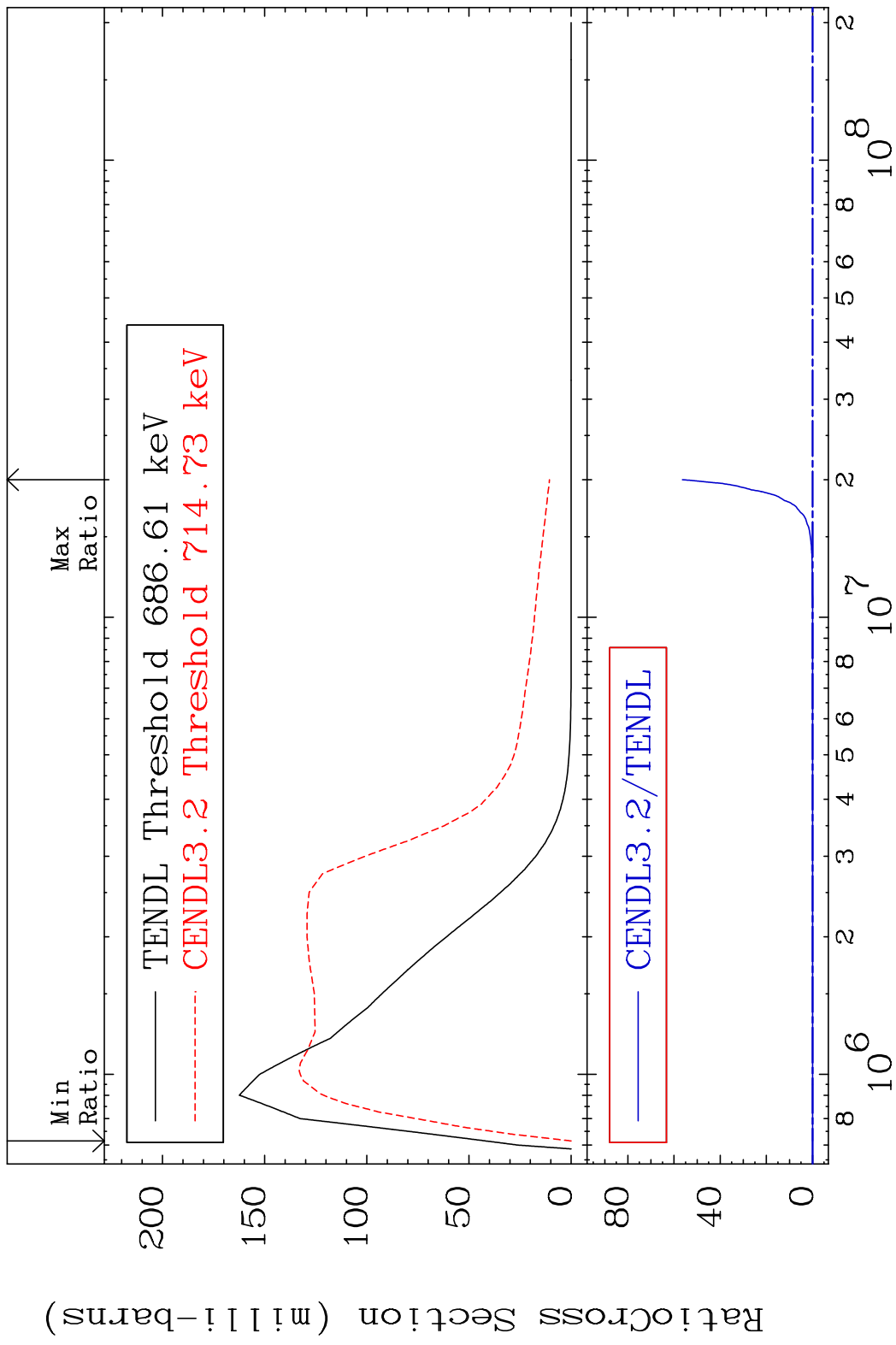


15 Incident Energy (eV) 48-Cd-113

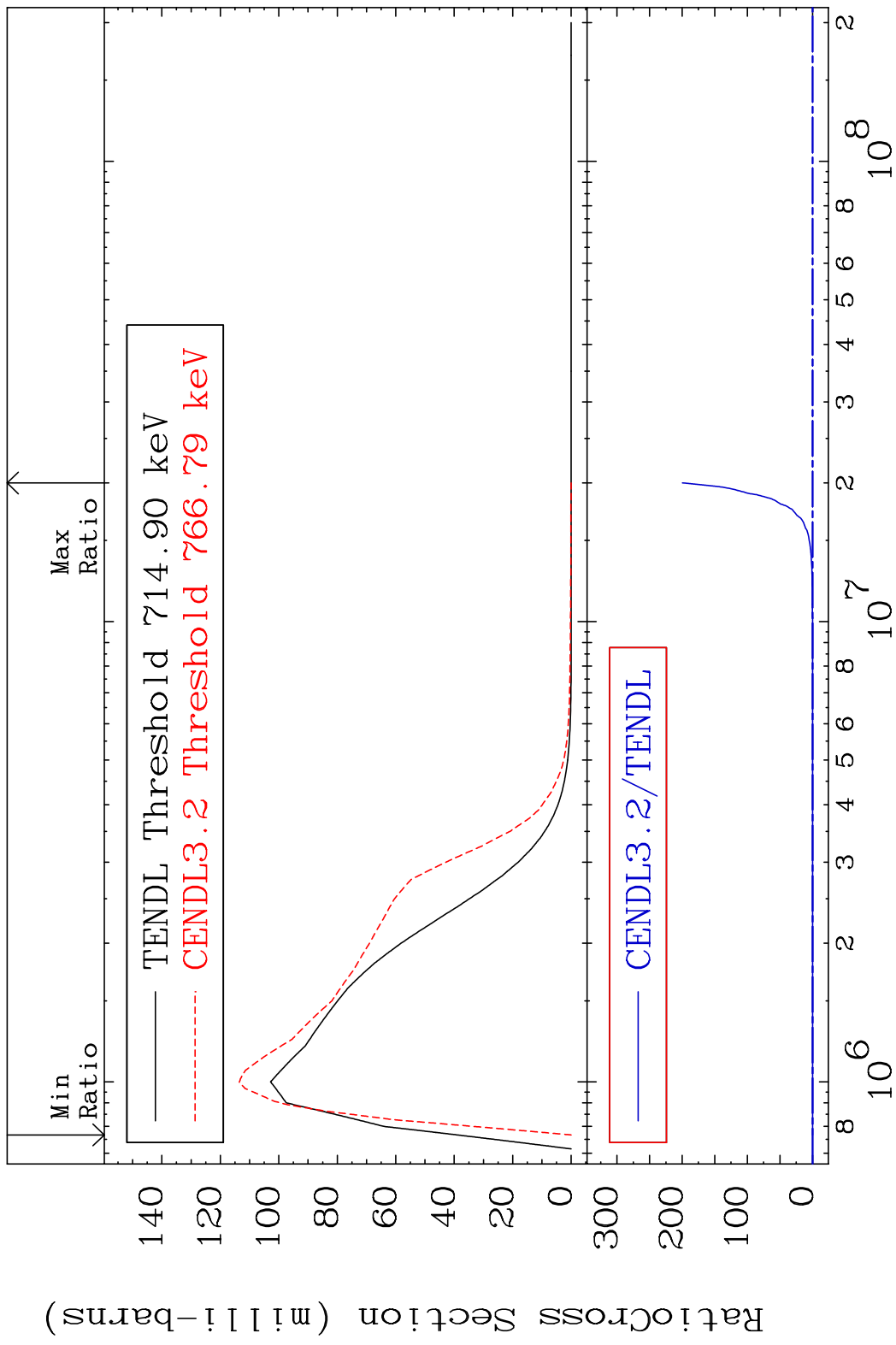
MAT 4846 MT= 59 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %



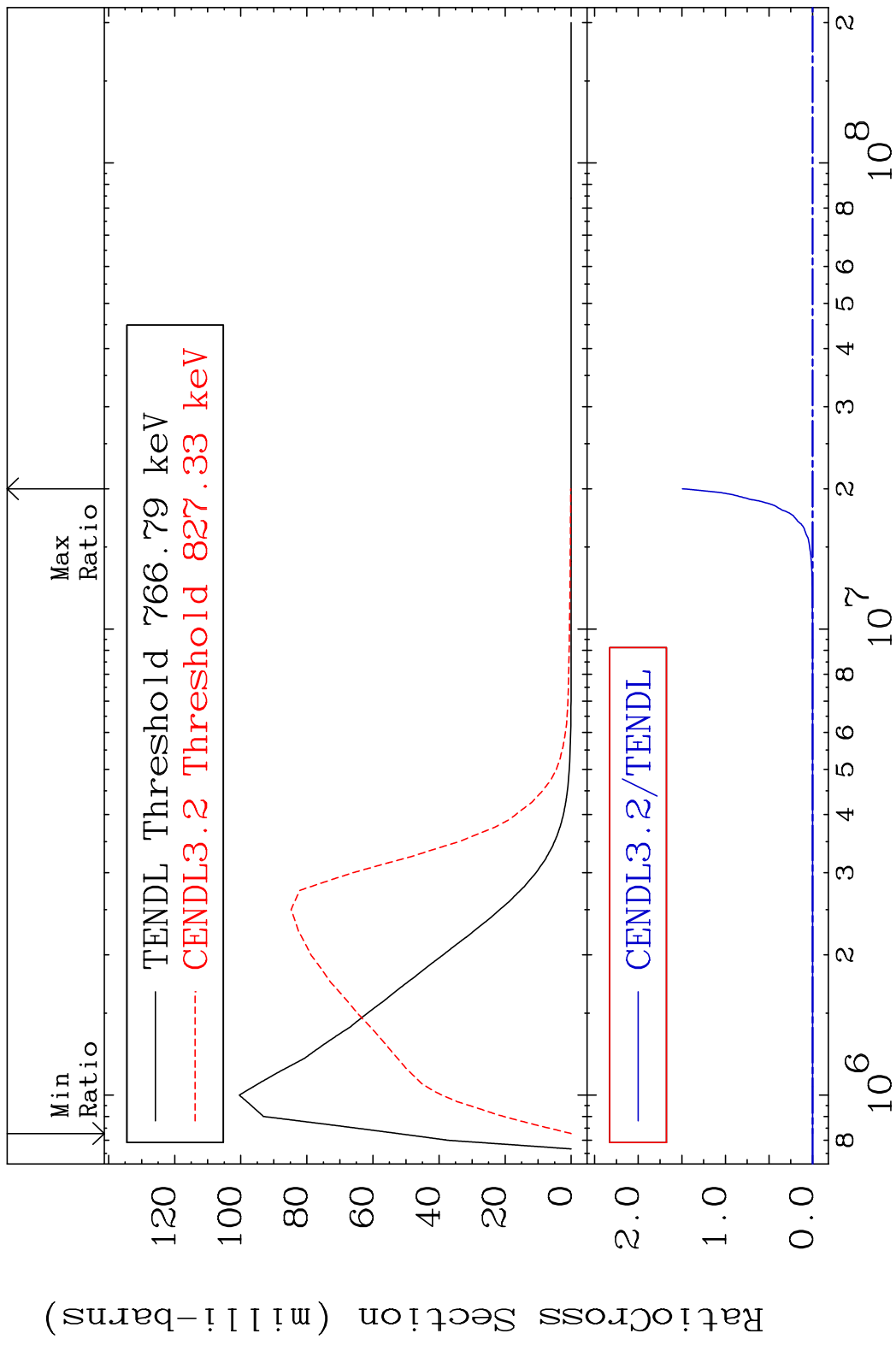
MAT 4846 MT= 60 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %



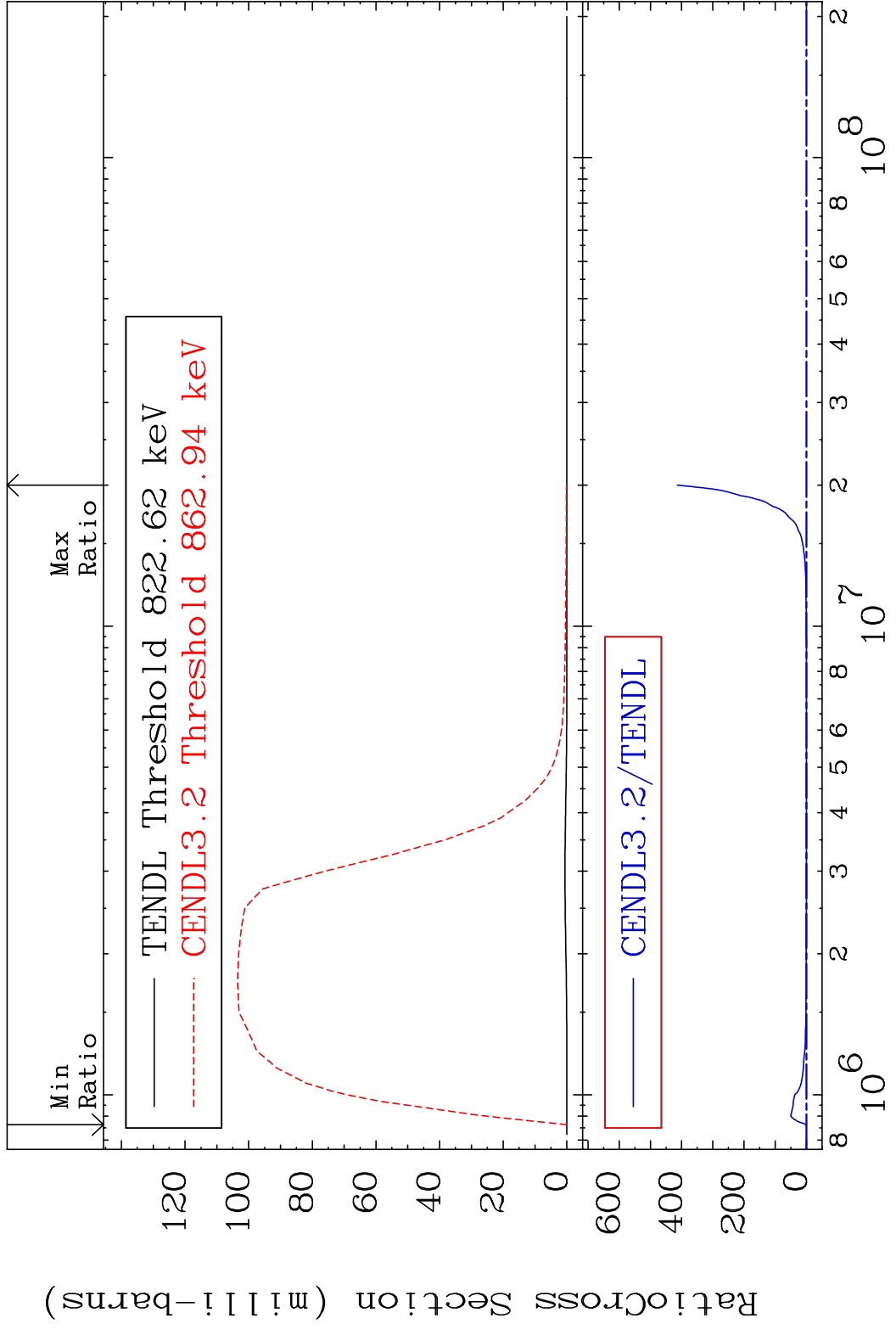
MAT 4846 MT= 61 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %



MAT 4846 MT= 62 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %

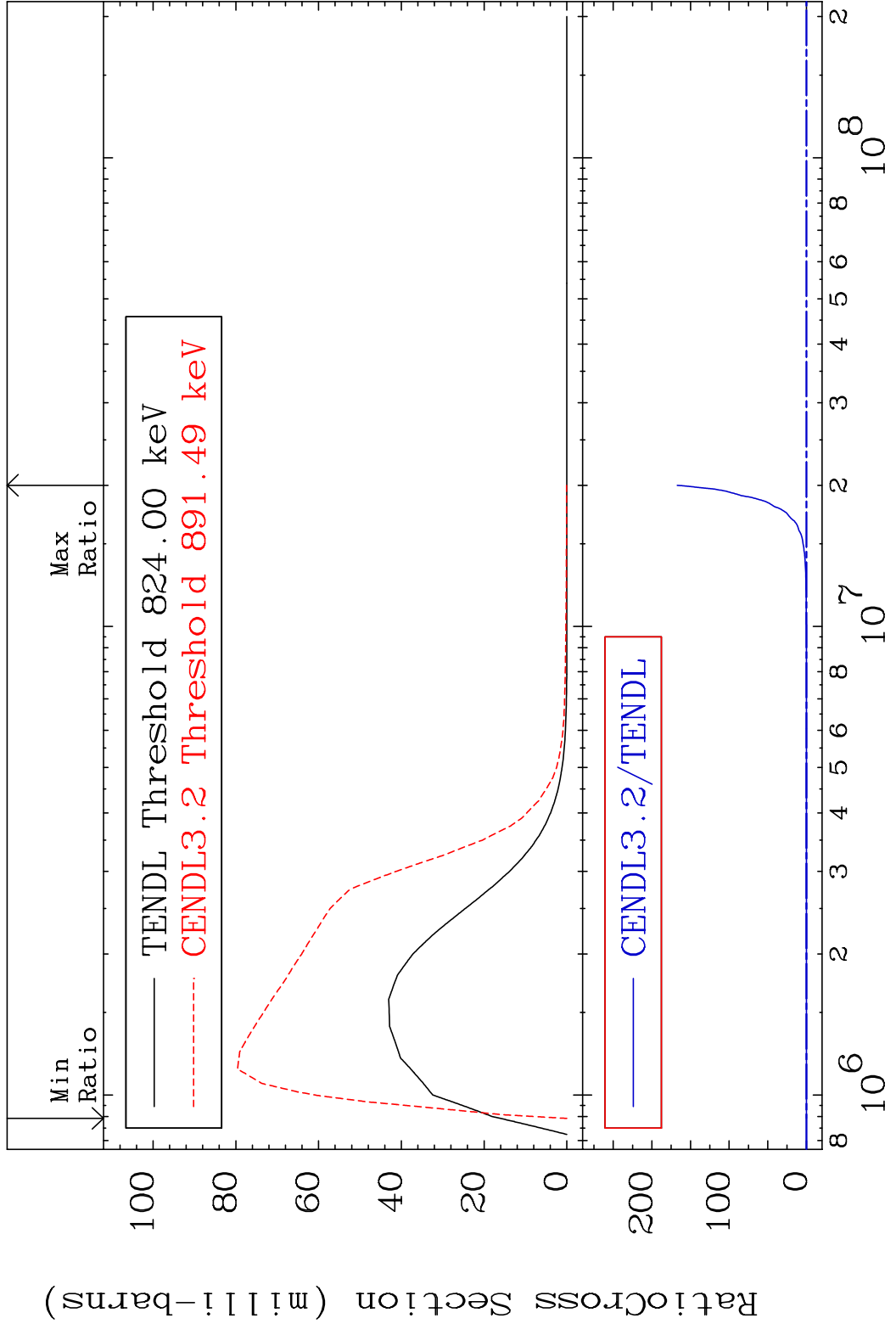


MAT 4846 MT= 63 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %

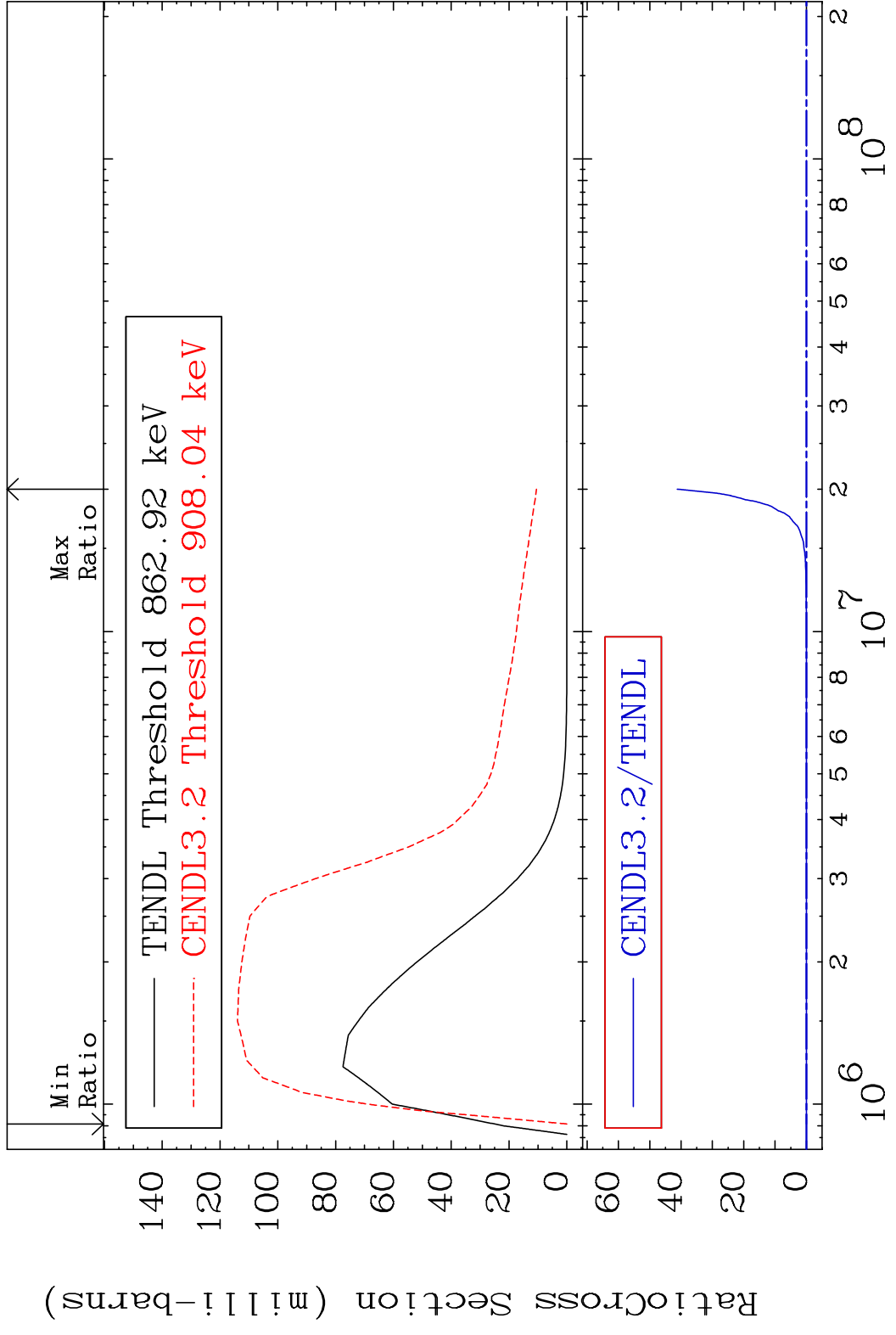


20 Incident Energy (eV) 48-Cd-113

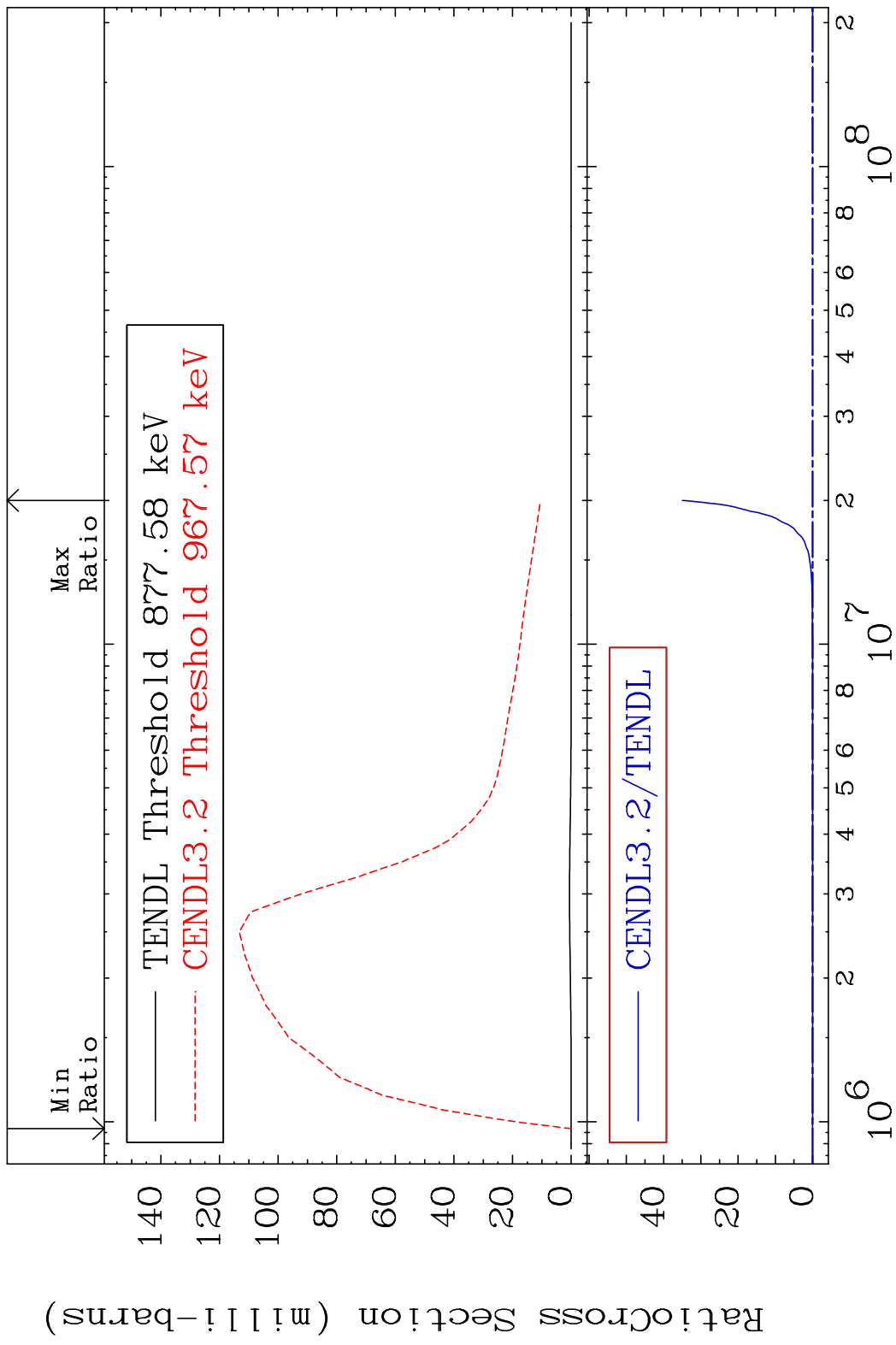
MAT 4846 MT= 64 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %



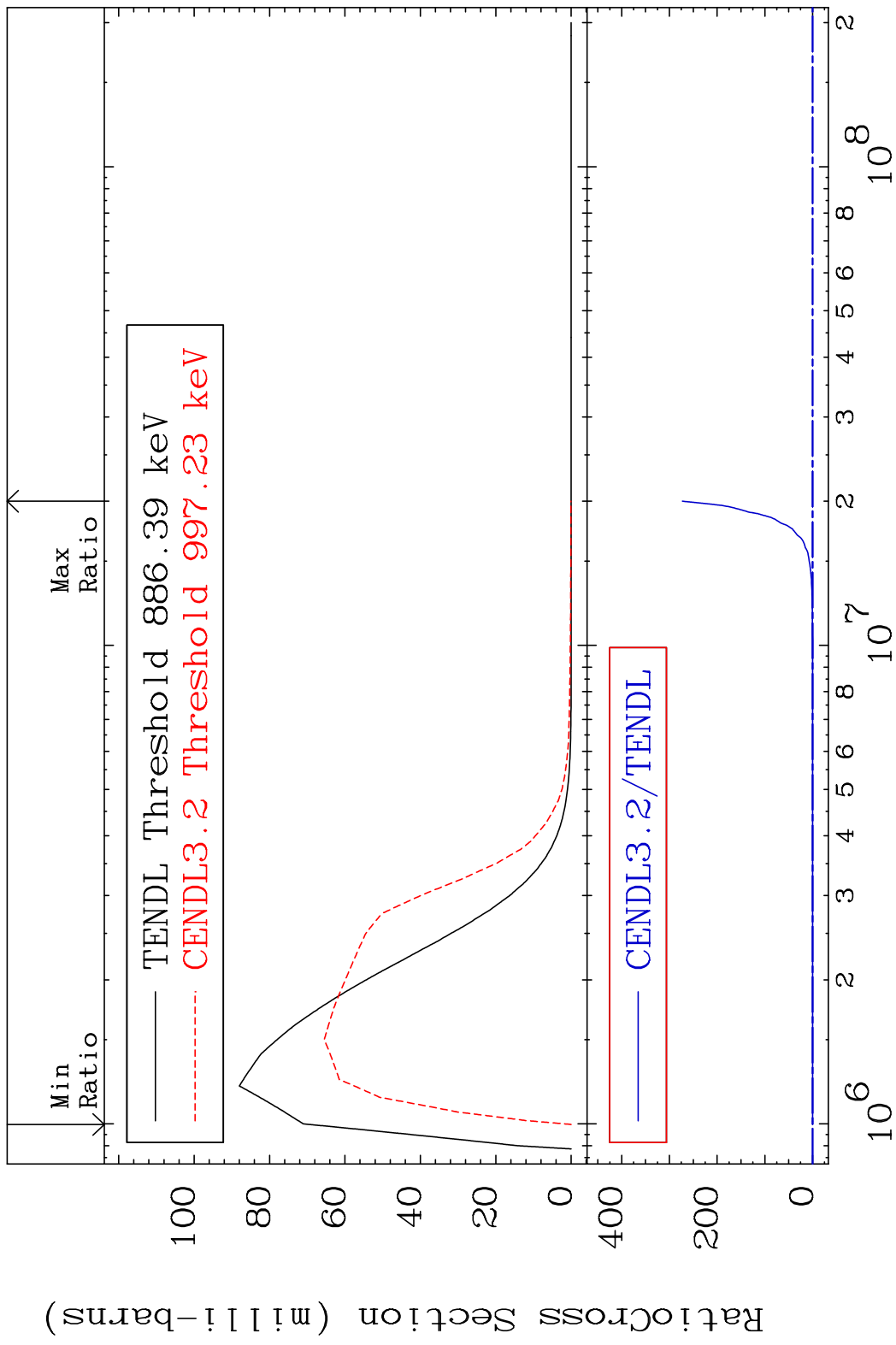
MAT 4846 MT= 65 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %



MAT 4846 MT= 66 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %

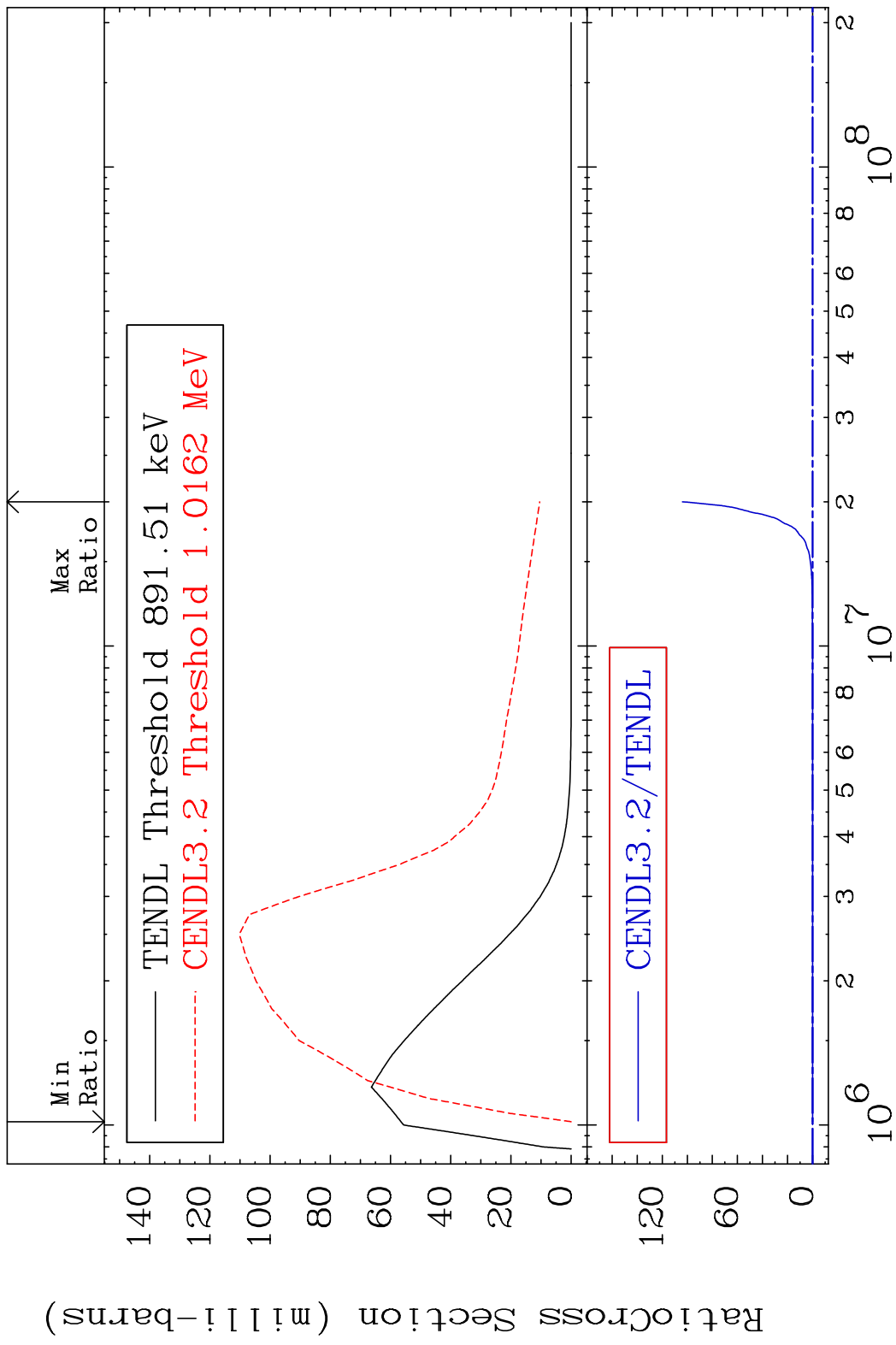


MAT 4846 MT= 67 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %



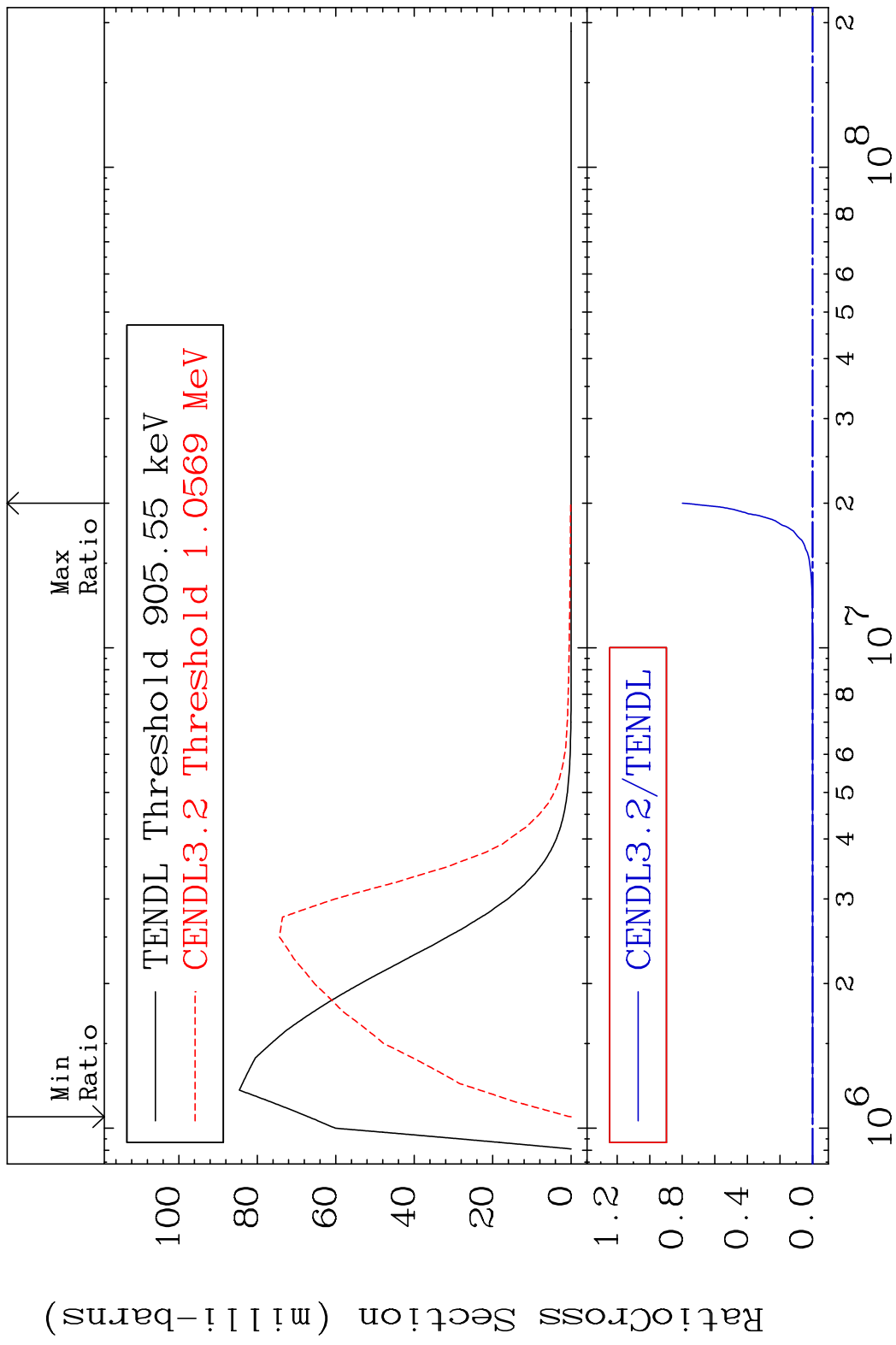
24 Incident Energy (eV) 48-Cd-113

MAT 4846 MT= 68 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %

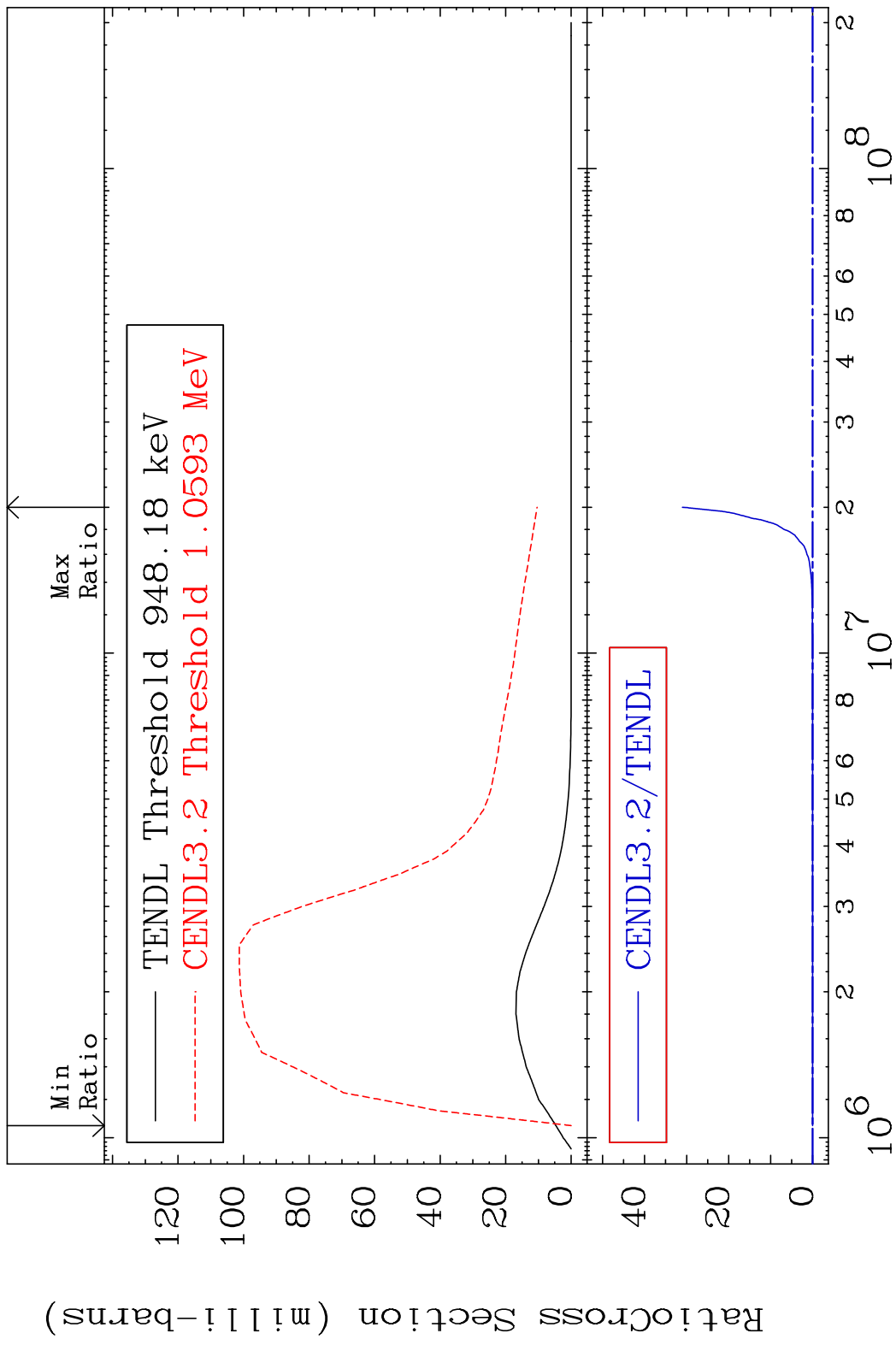


25 Incident Energy (eV) 48-Cd-113

MAT 4846 MT= 69 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %

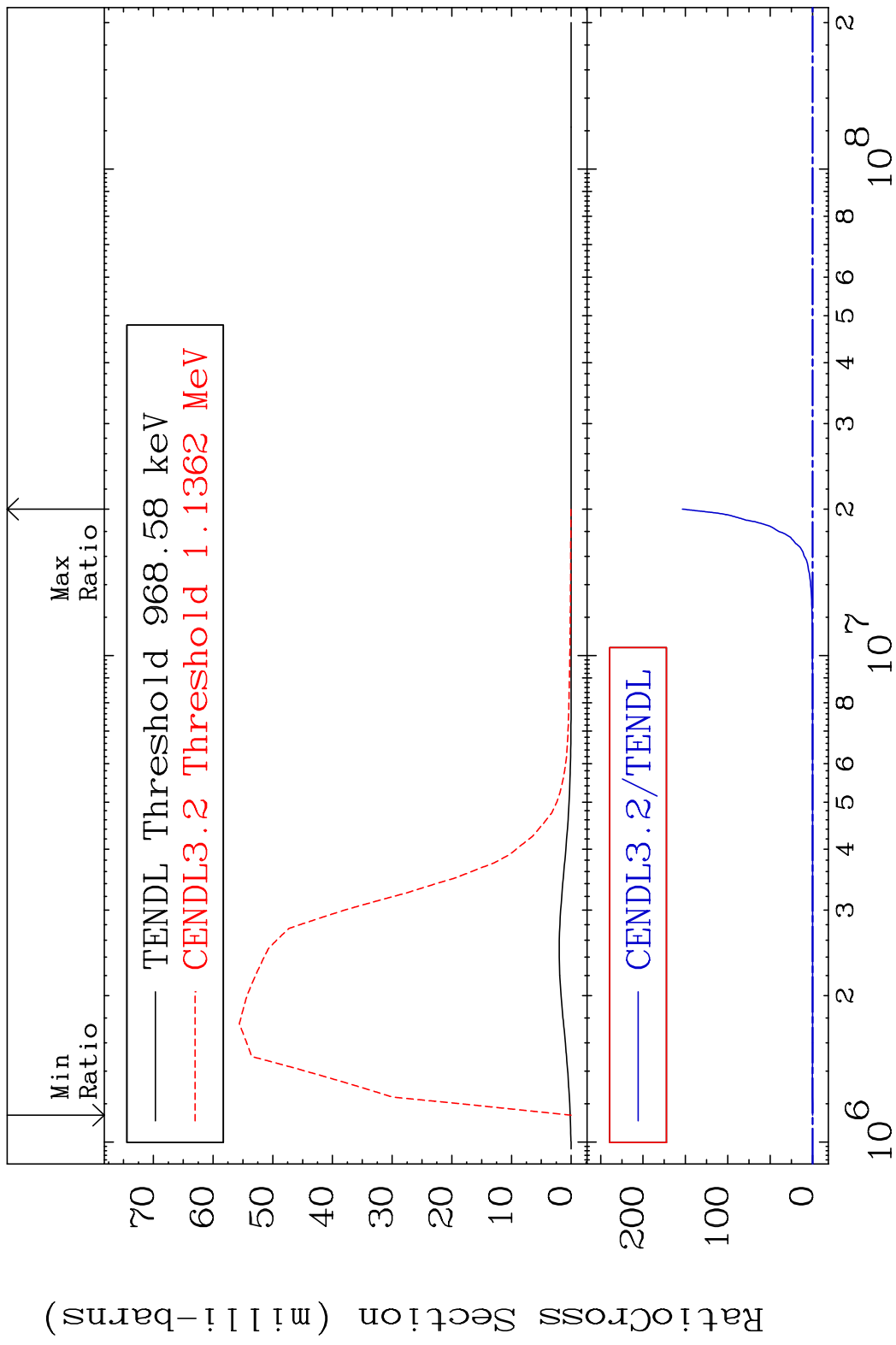


MAT 4846 MT= 70 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %



27 Incident Energy (eV) 48-Cd-113

MAT 4846 MT= 71 (n, n') Level 48-Cd-113
 Cross Section -100.0 To 9999. %



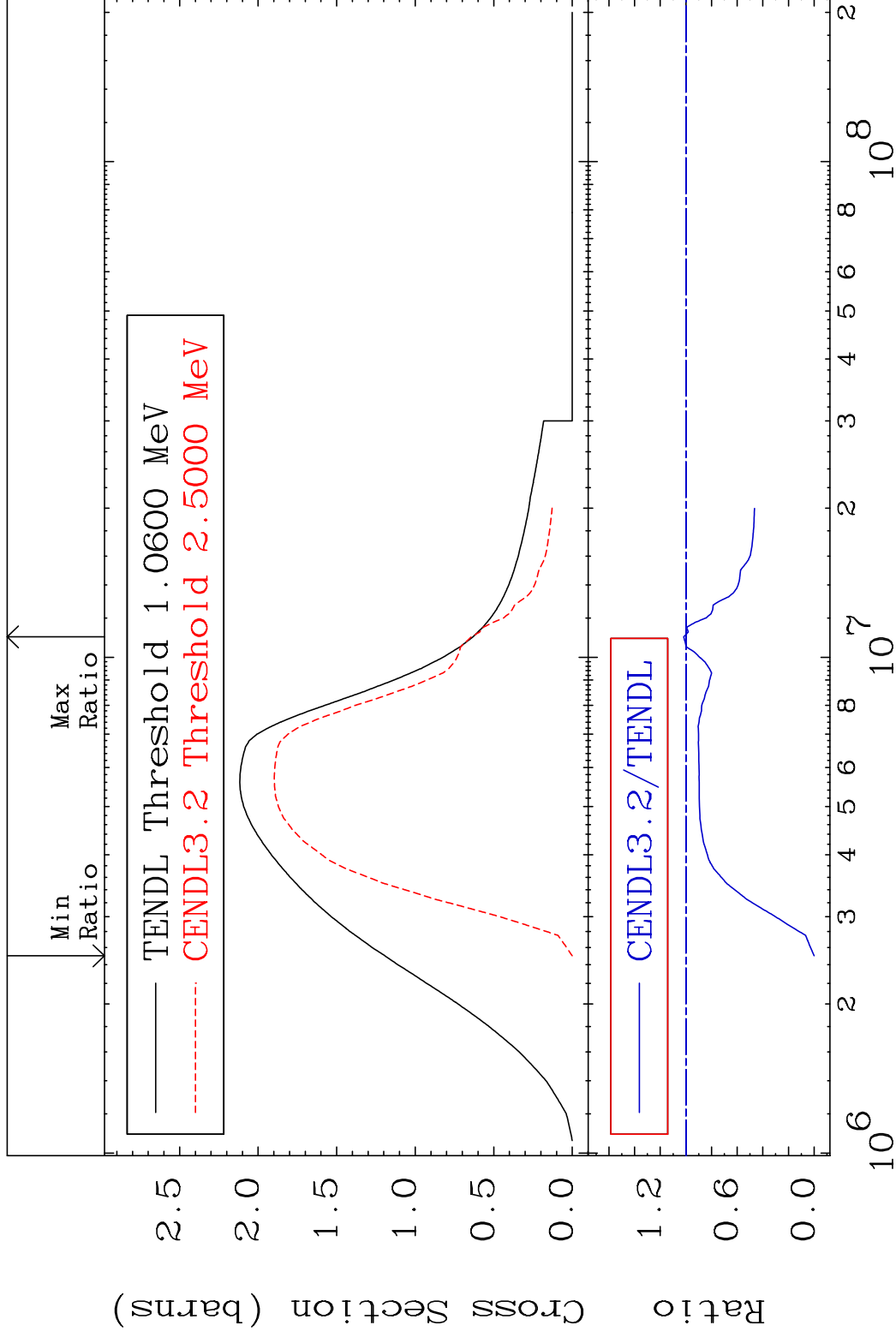
28 Incident Energy (eV) 48-Cd-113

MAT 4846

(n, n') Continuum

48-Cd-113

Cross Section -100.0 To 1.743 %



29

Incident Energy (eV)

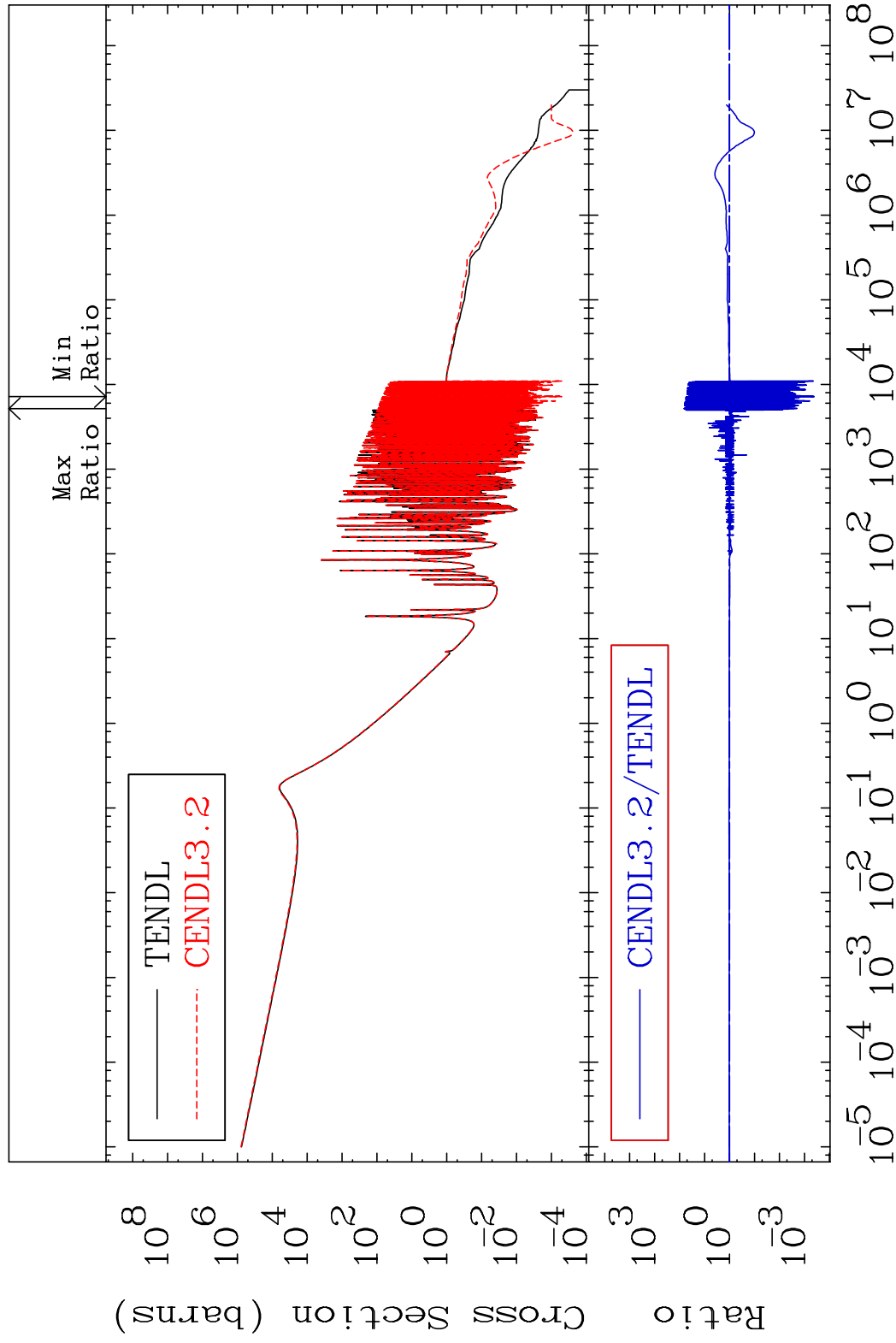
48-Cd-113

MAT 4846

(n, γ)

48-Cd-113

Cross Section -99.96 To 6530. %



30

Incident Energy (eV)

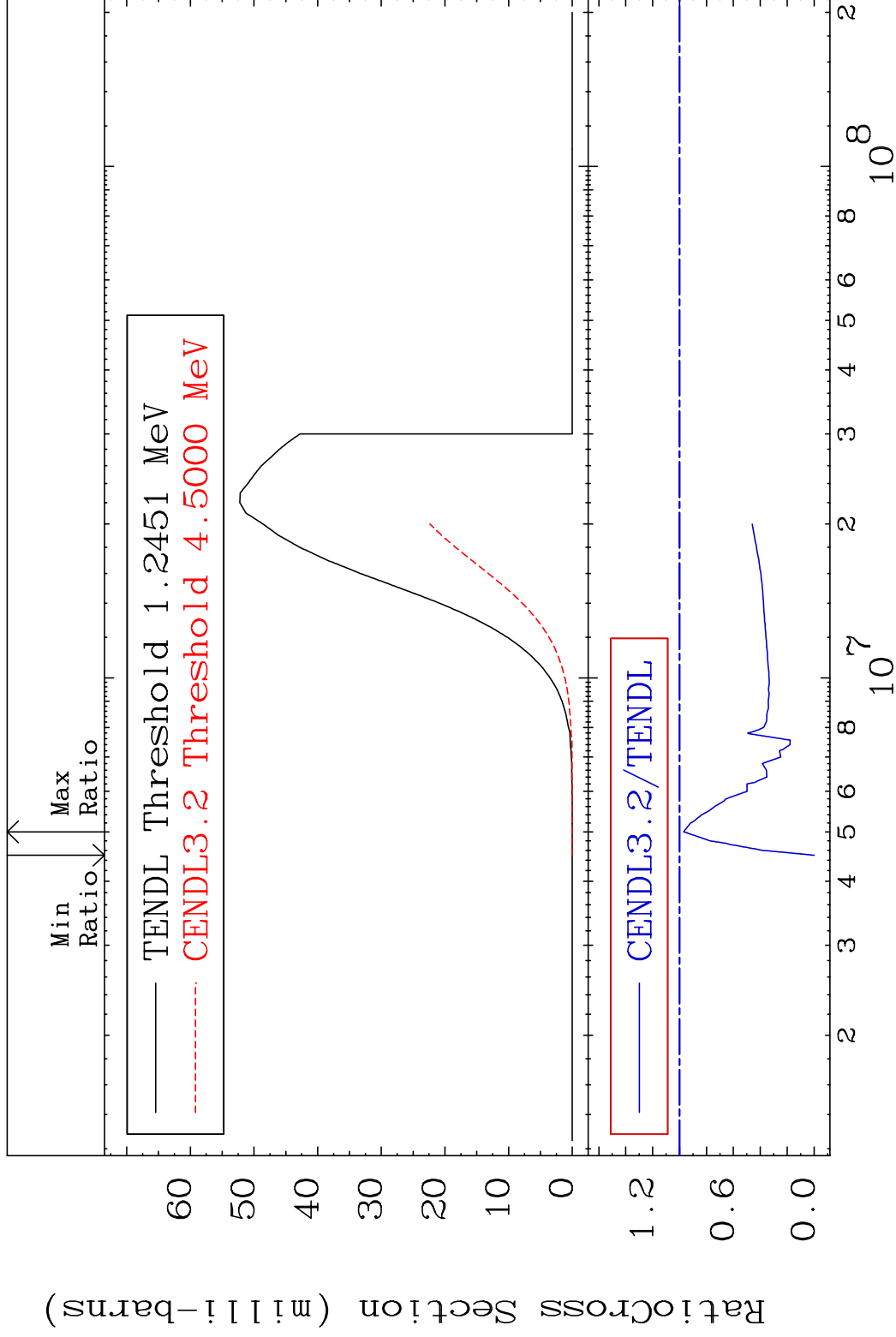
48-Cd-113

MAT 4846

(n,p)

48-Cd-113

Cross Section -100.0 To -3.044%

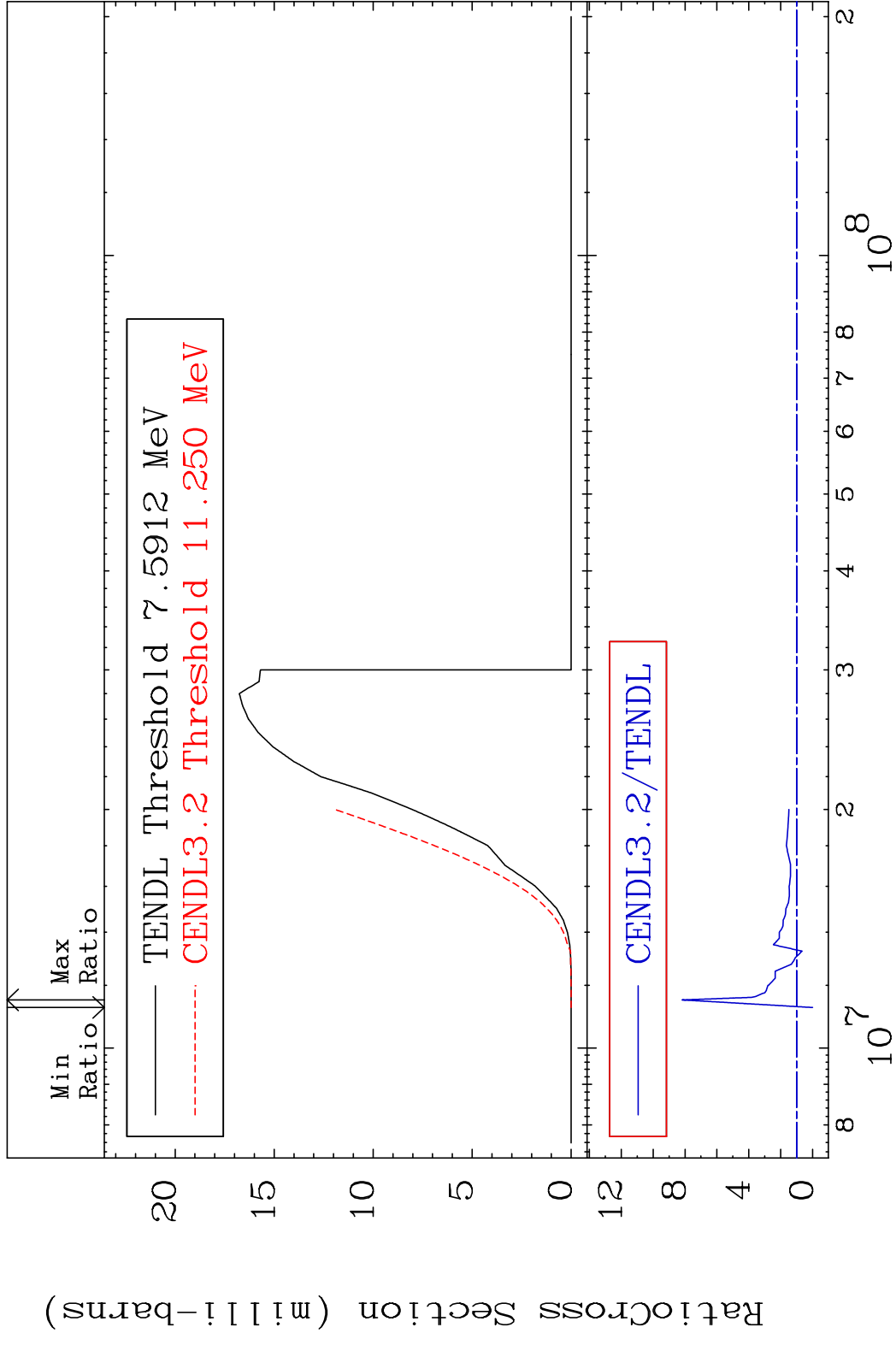


31

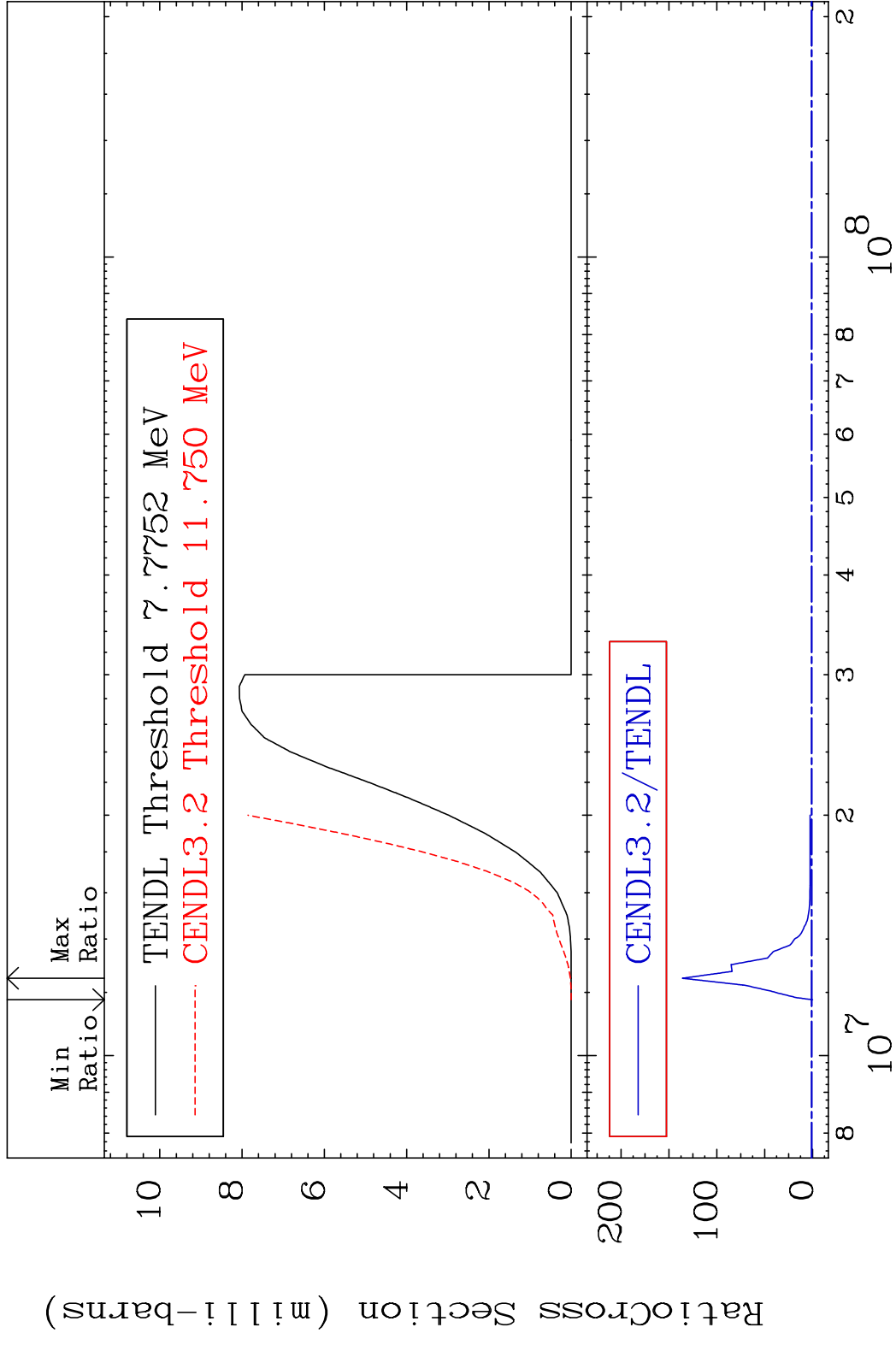
Incident Energy (eV)

48-Cd-113

MAT 4846 (n,d) 48-Cd-113
 Cross Section -100.0 To 716.8 %



MAT 4846 (n, t) 48-Cd-113
 Cross Section -100.0 To 9999. %

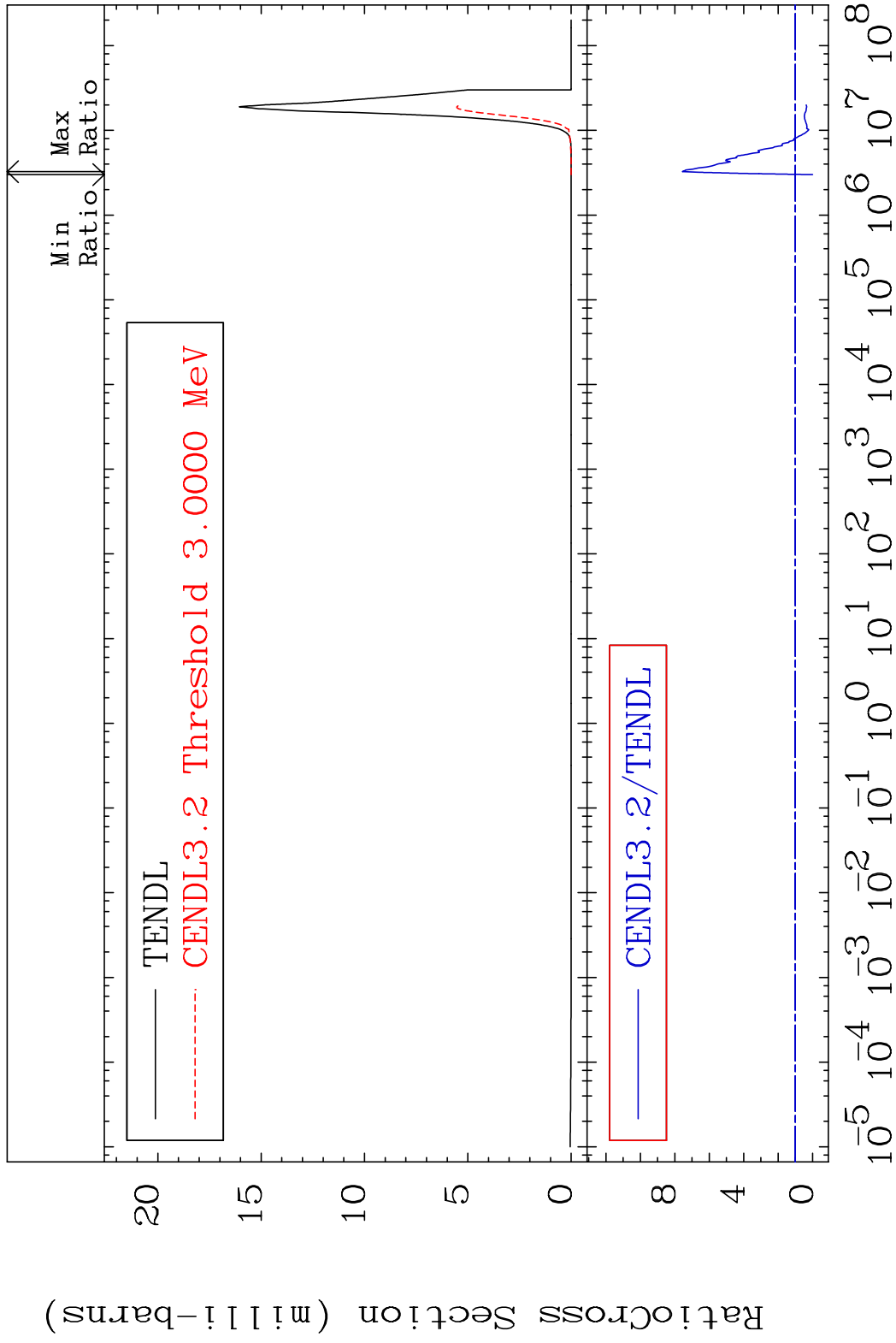


MAT 4846

(n, α)

48-Cd-113

Cross Section -100.0 To 656.3 %



34

Incident Energy (eV)

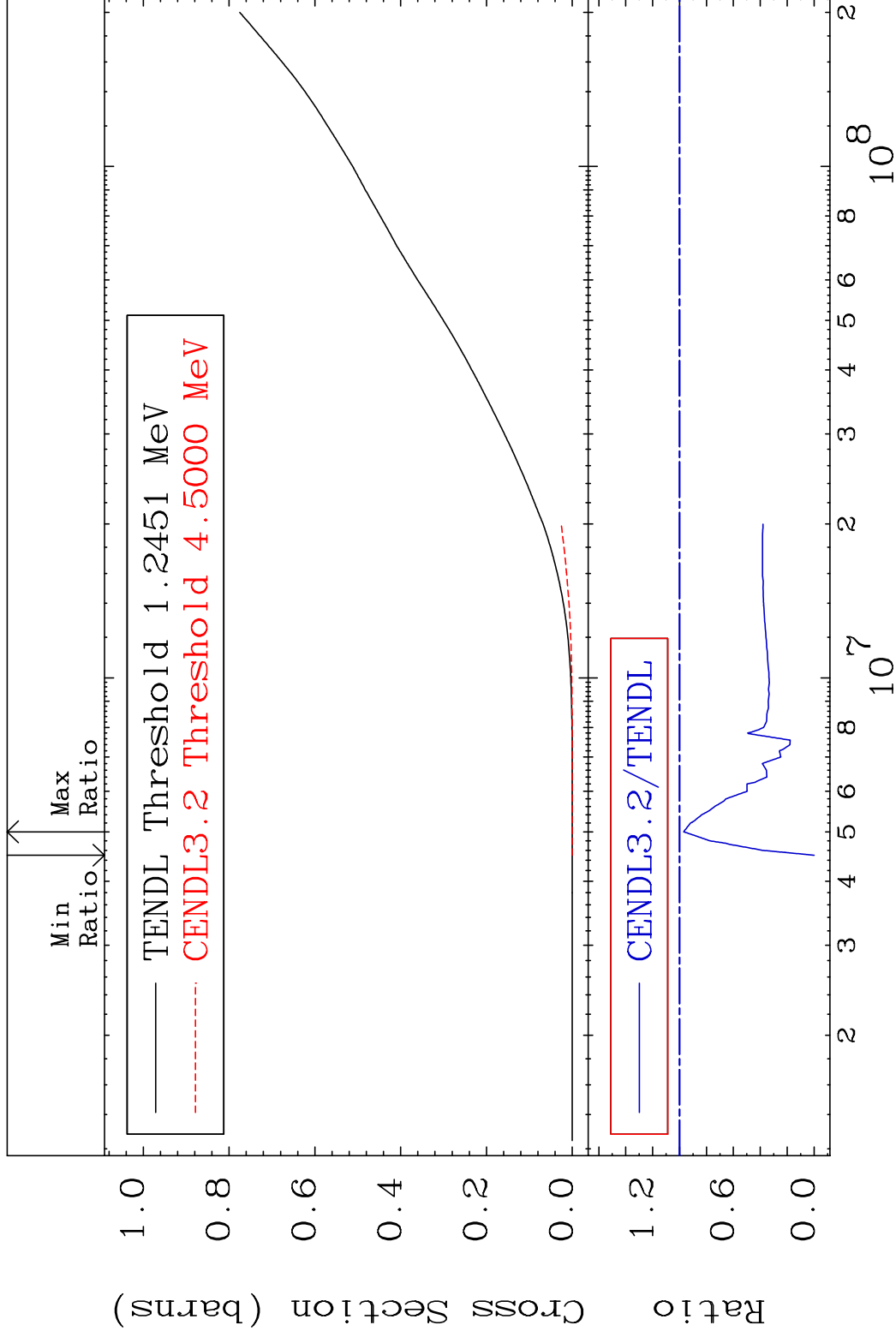
48-Cd-113

MAT 4846

Hydrogen Production

48-Cd-113

Cross Section -100.0 To -3.044%

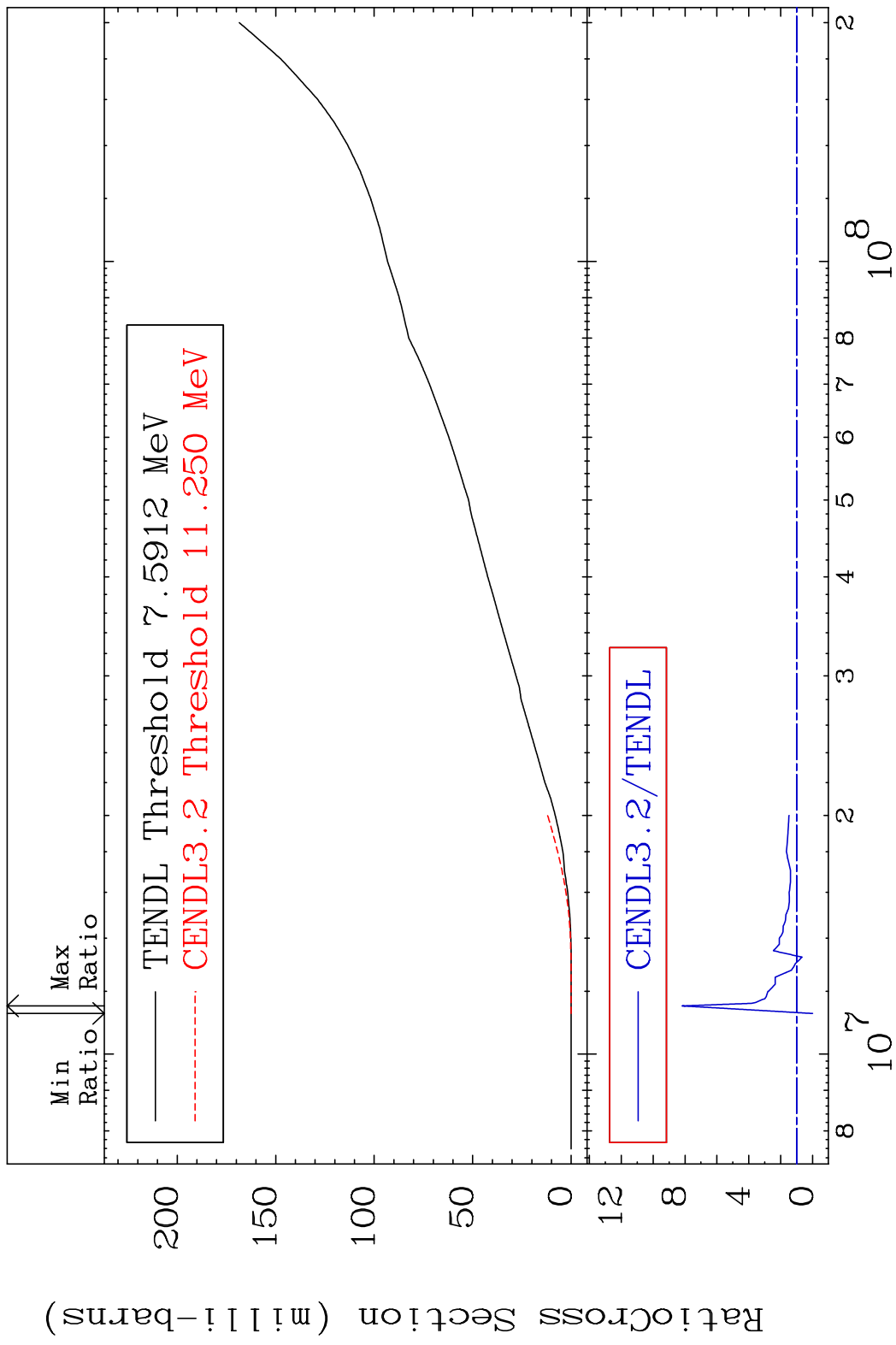


35

Incident Energy (eV)

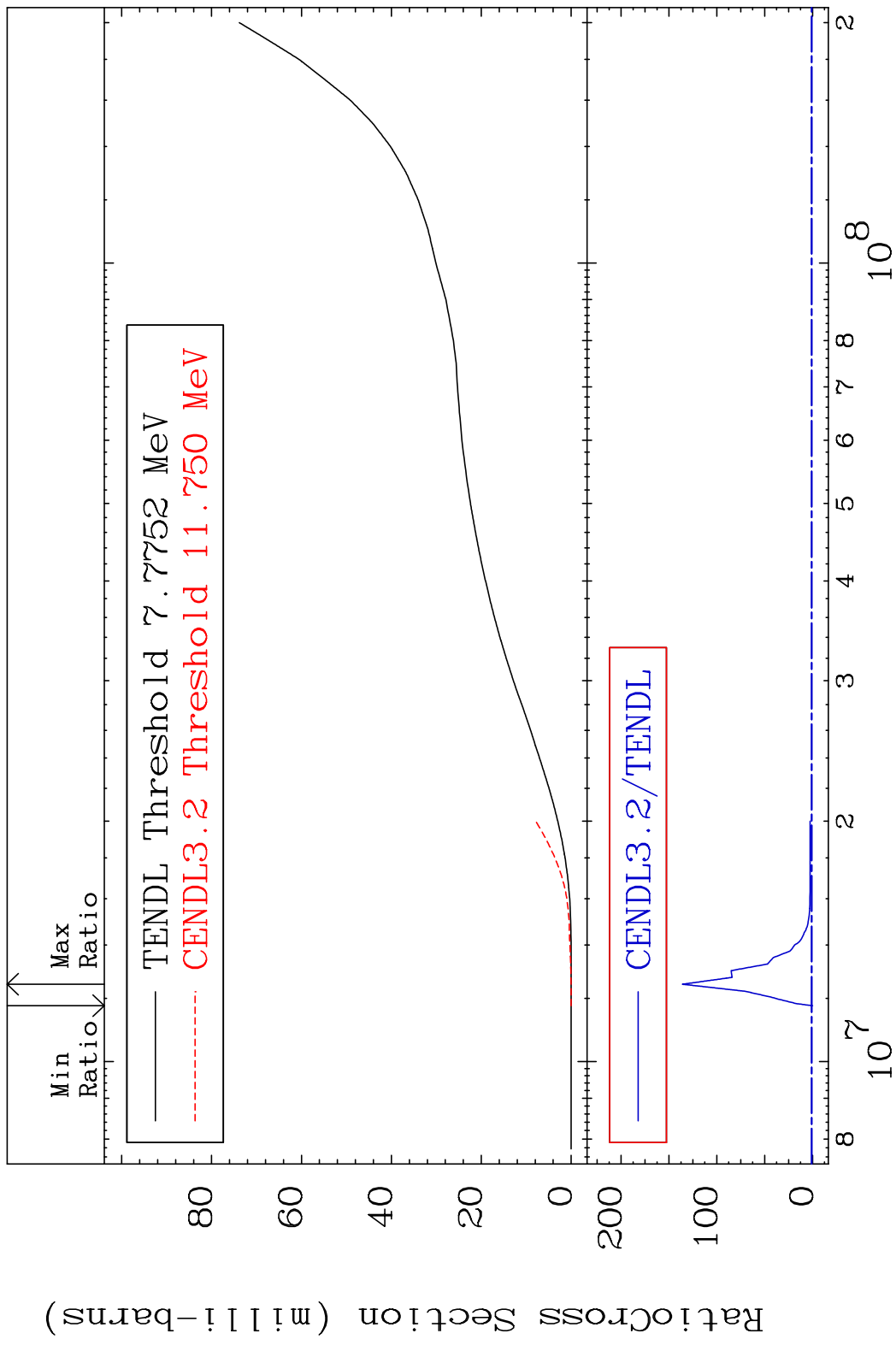
48-Cd-113

MAT 4846 Deuterium Production 48-Cd-113
 Cross Section -100.0 To 716.8 %



36 Incident Energy (eV) 48-Cd-113

MAT 4846 Tritium Production 48-Cd-113
 Cross Section -100.0 To 9999. %

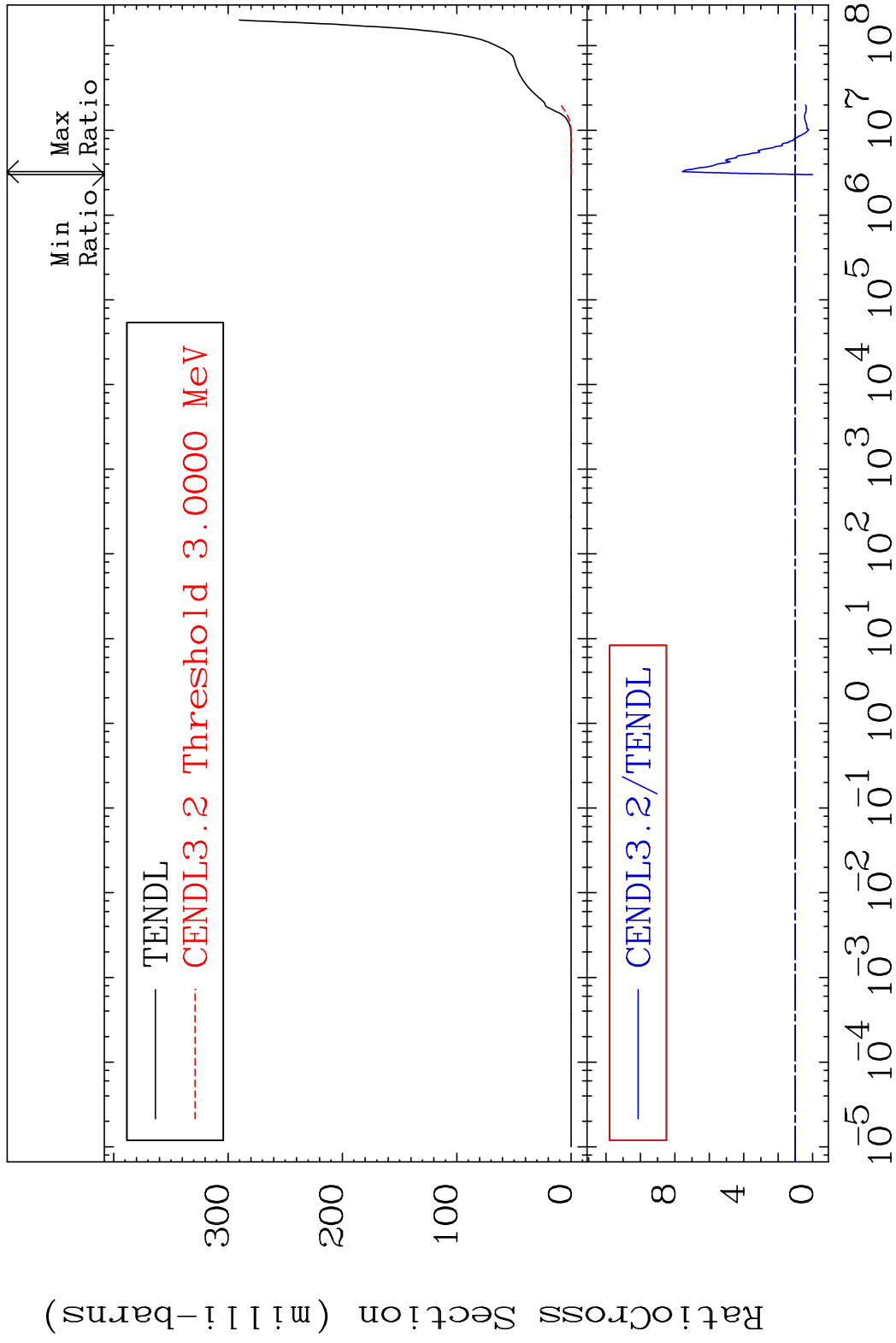


MAT 4846

He-4 Production

48-Cd-113

Cross Section -100.0 To 656.3 %

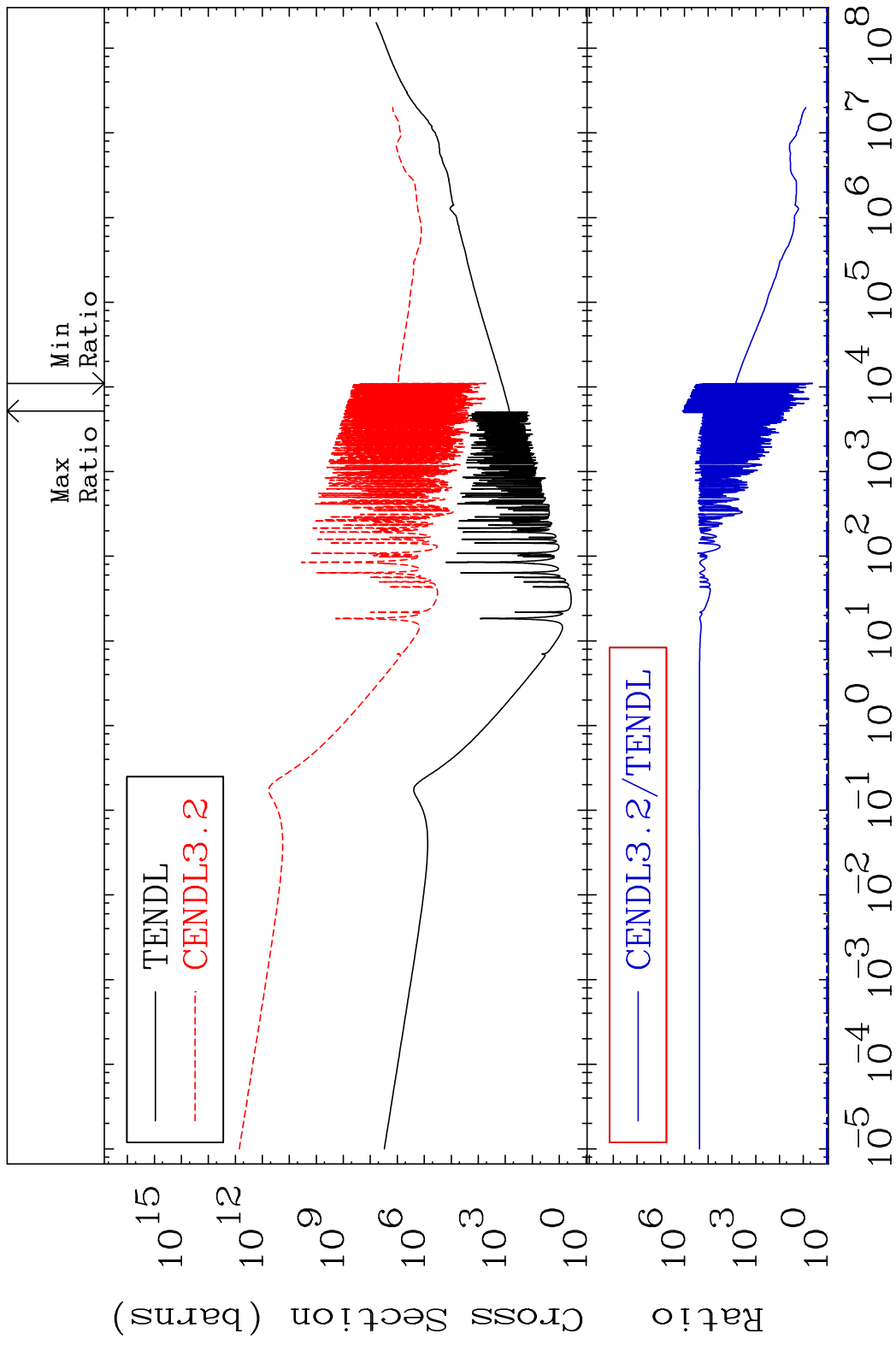


38

Incident Energy (eV)

48-Cd-113

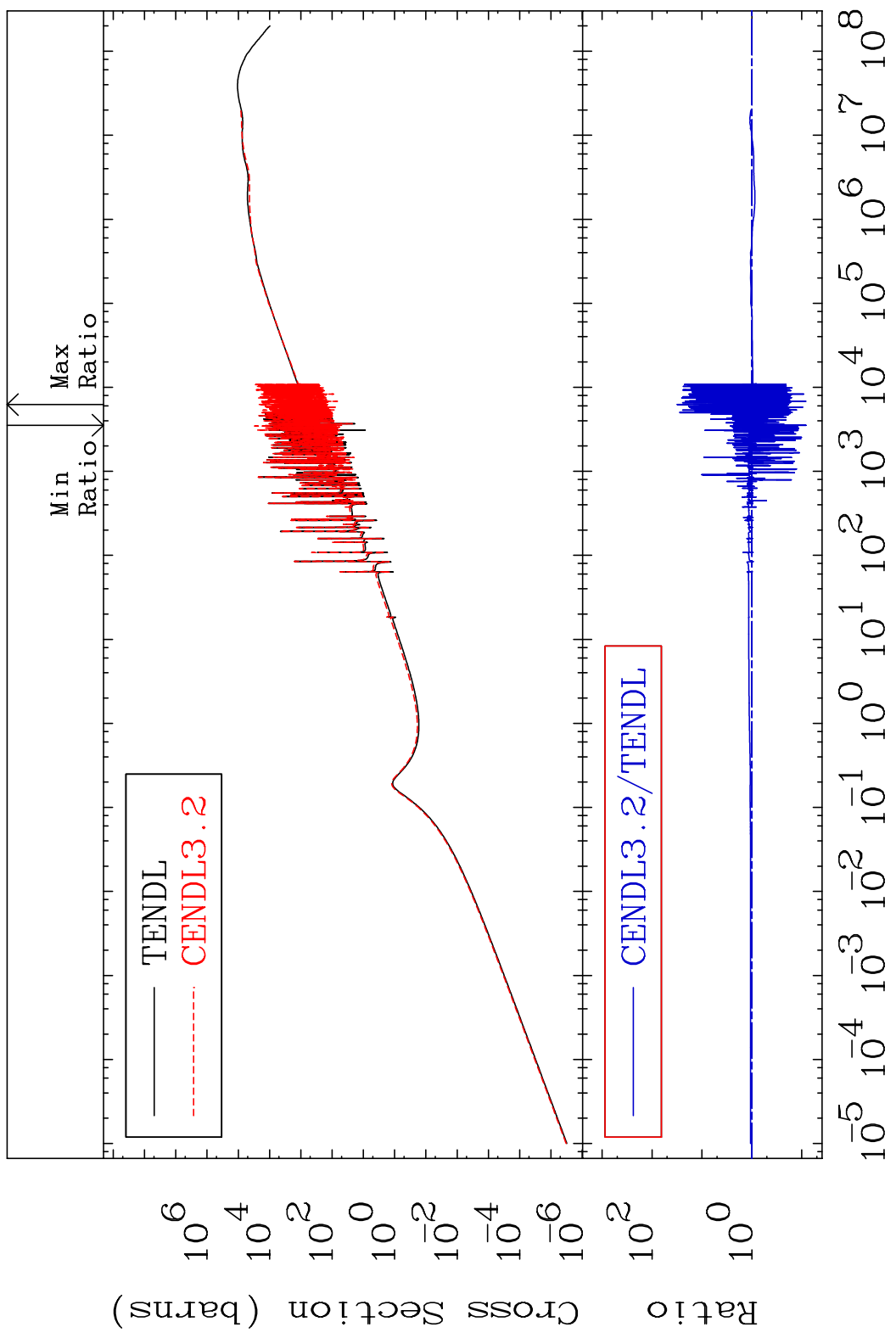
MAT 4846 Kerma total (eV-barns) 48-Cd-113
 Cross Section 306.5 To 9999. %



MAT 4846

Kerma elastic
Cross Section -91.93 To 3037. %

48-Cd-113

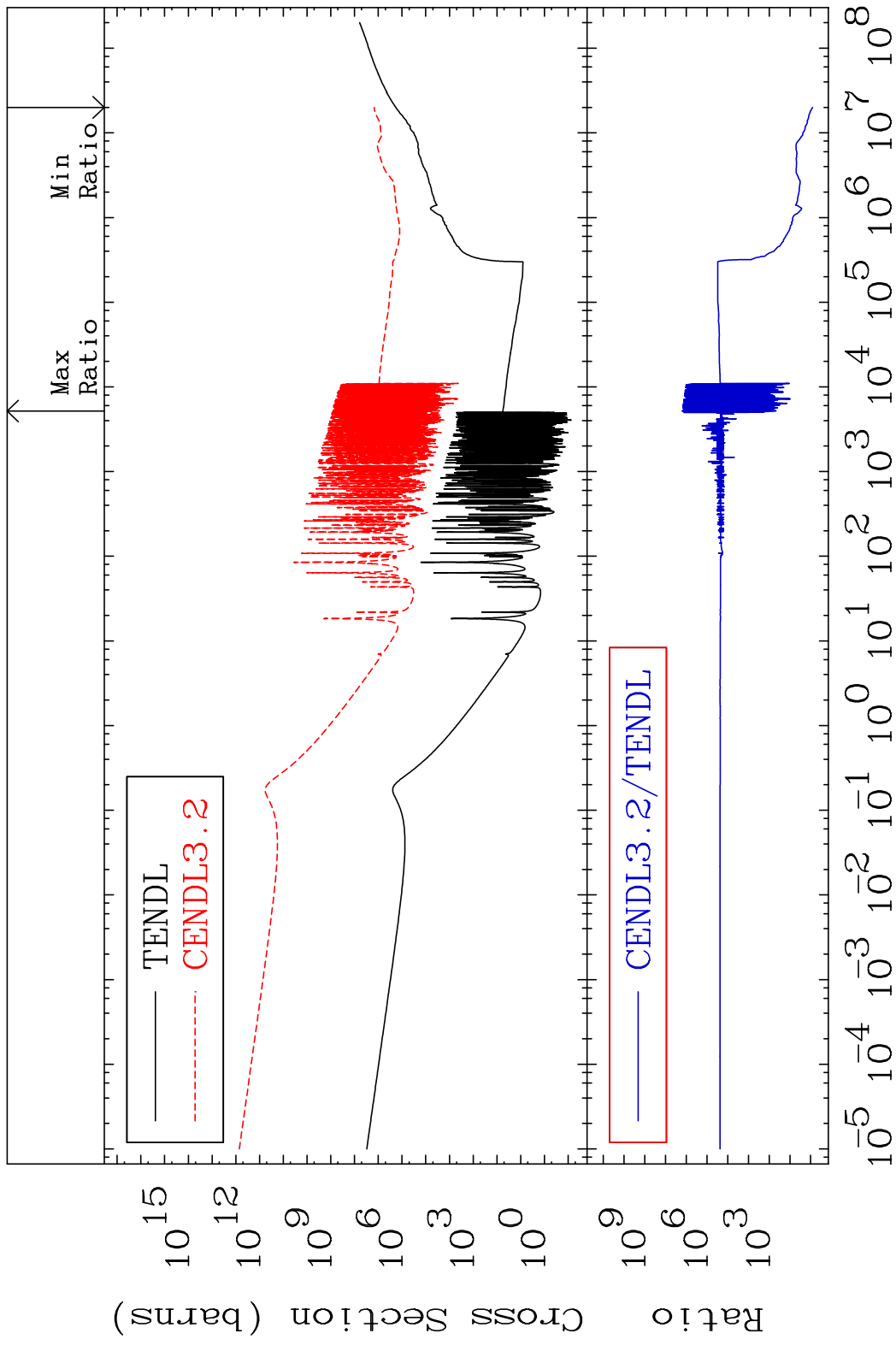


40

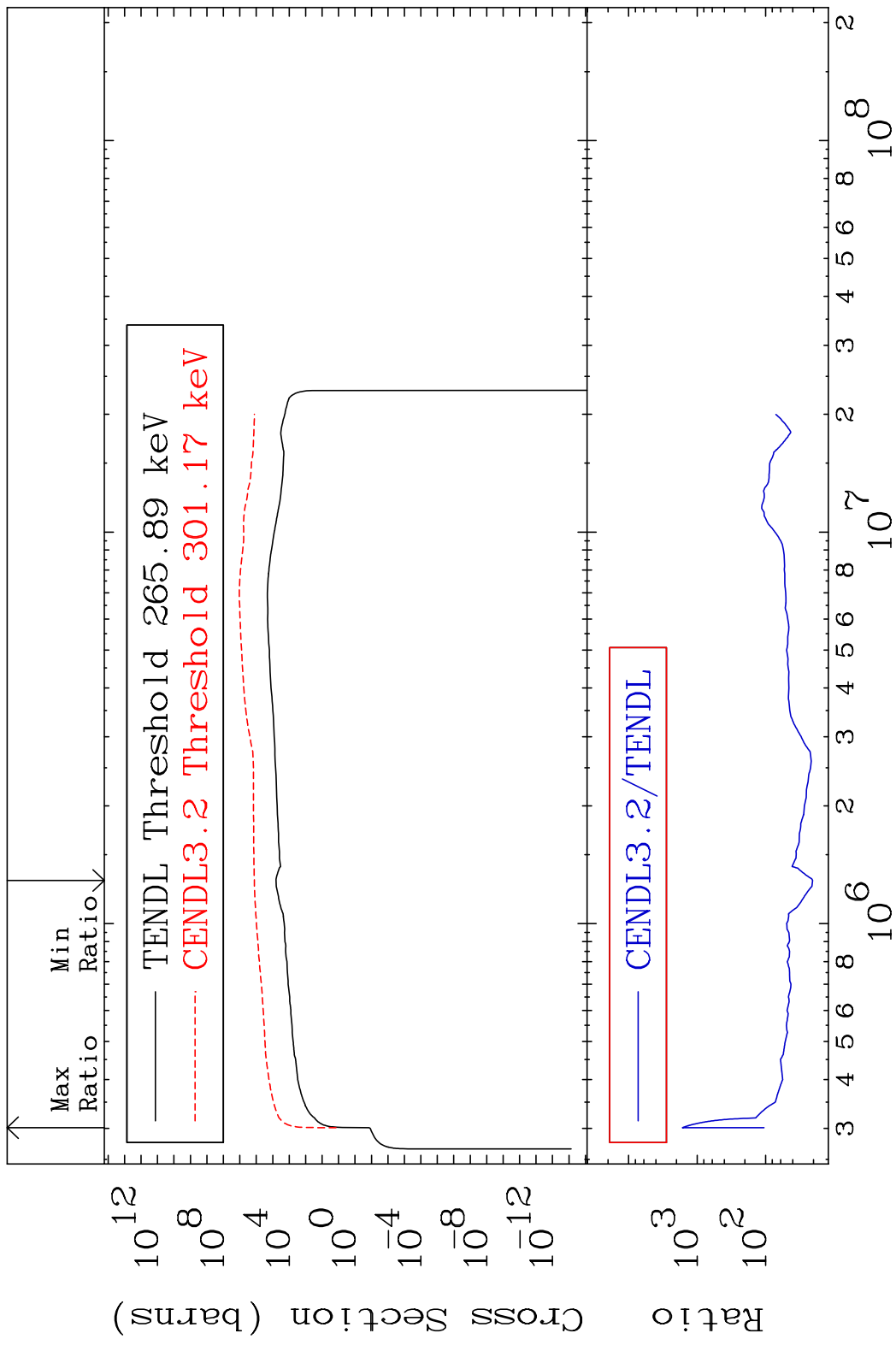
Incident Energy (eV)

48-Cd-113

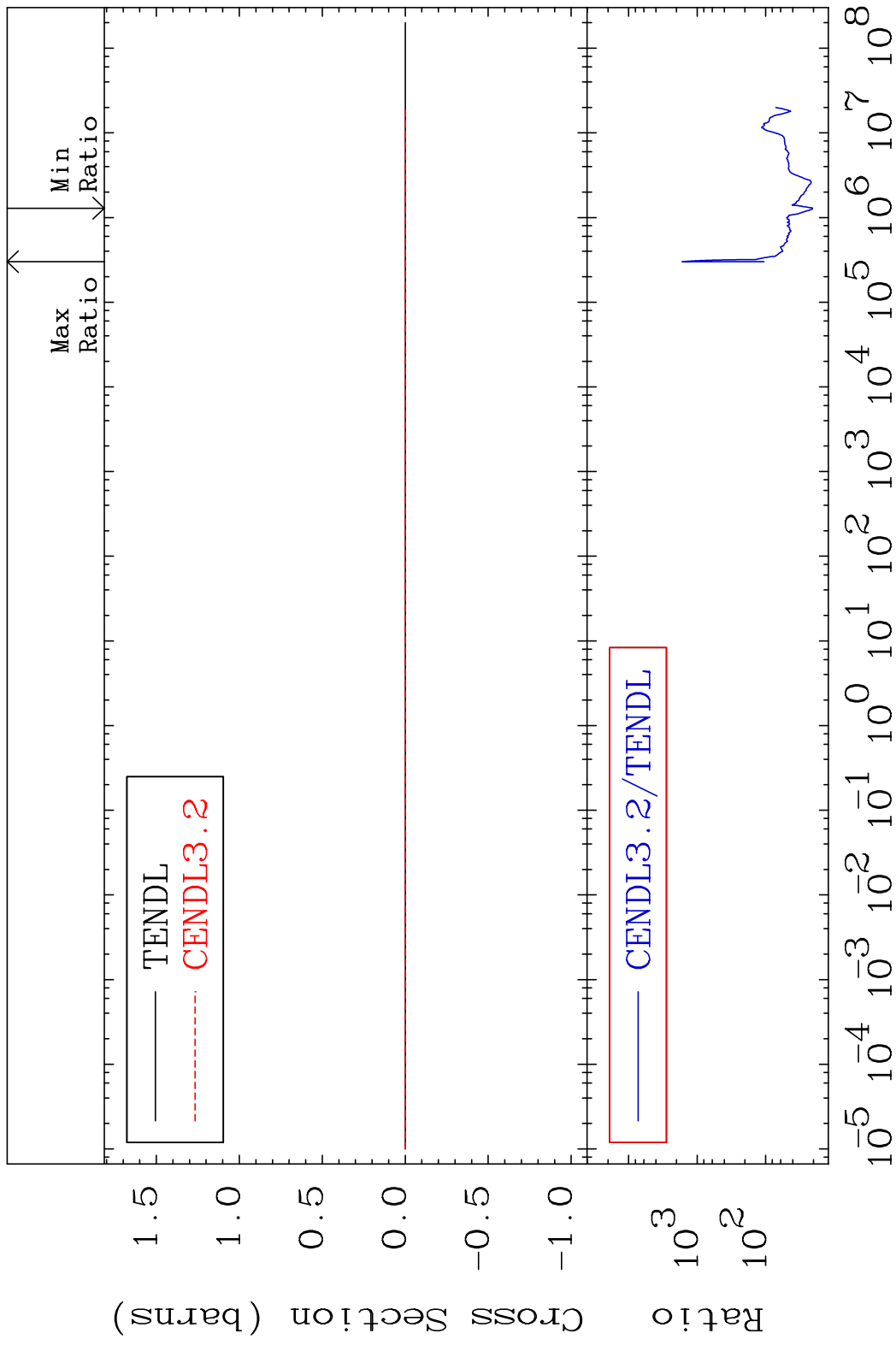
MAT 4846 Kerma non-elastic (all but mt2) 48-Cd-113
 Cross Section 709.7 To 9999. %



MAT 4846 Kerma inelastic (mt51-91) 48-Cd-113
 Cross Section 1959. To 9999. %

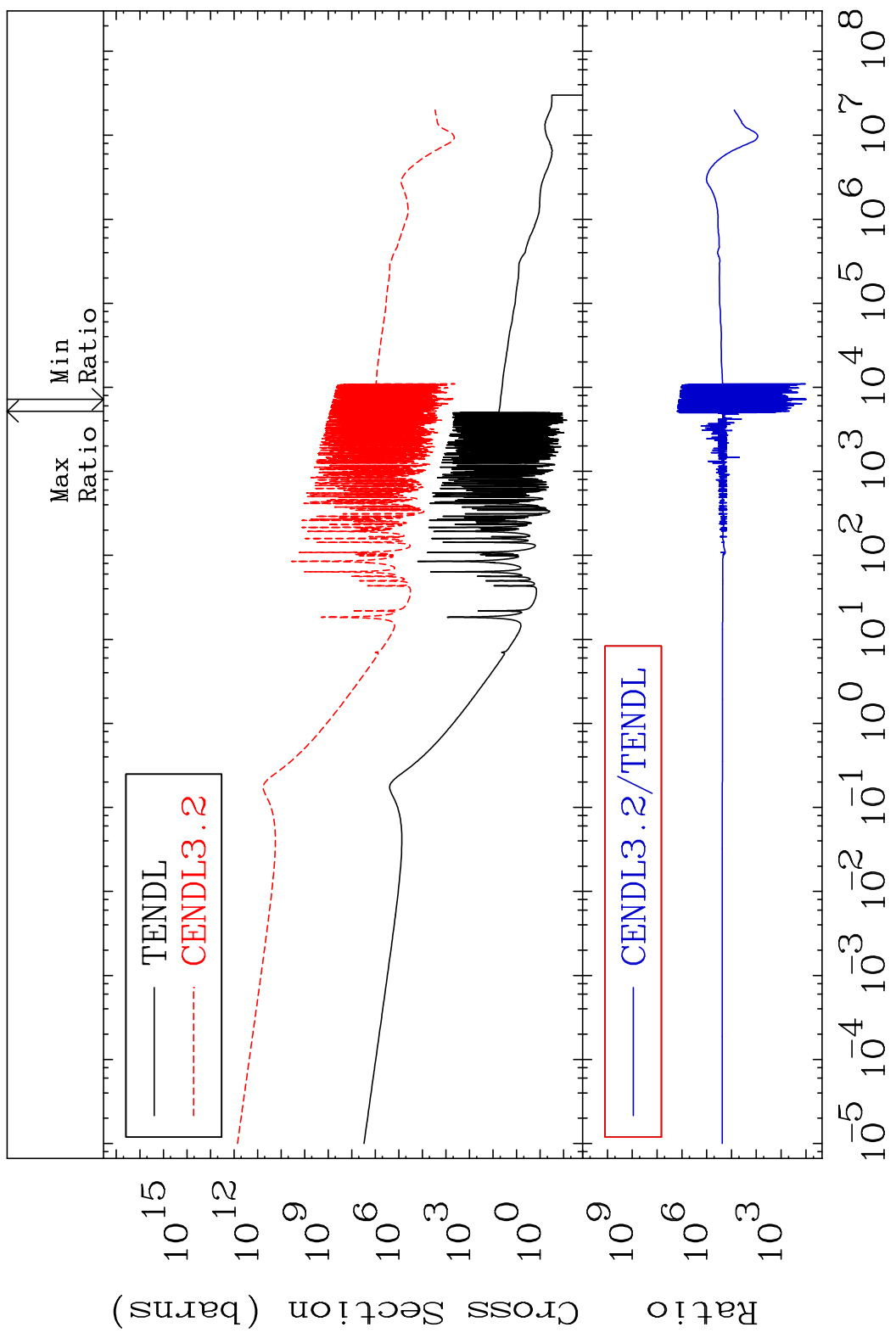


MAT 4846 Kerma fission (mt18 or mt19-20-21-38) 48-Cd-113
 Cross Section 1959. To 9999. %

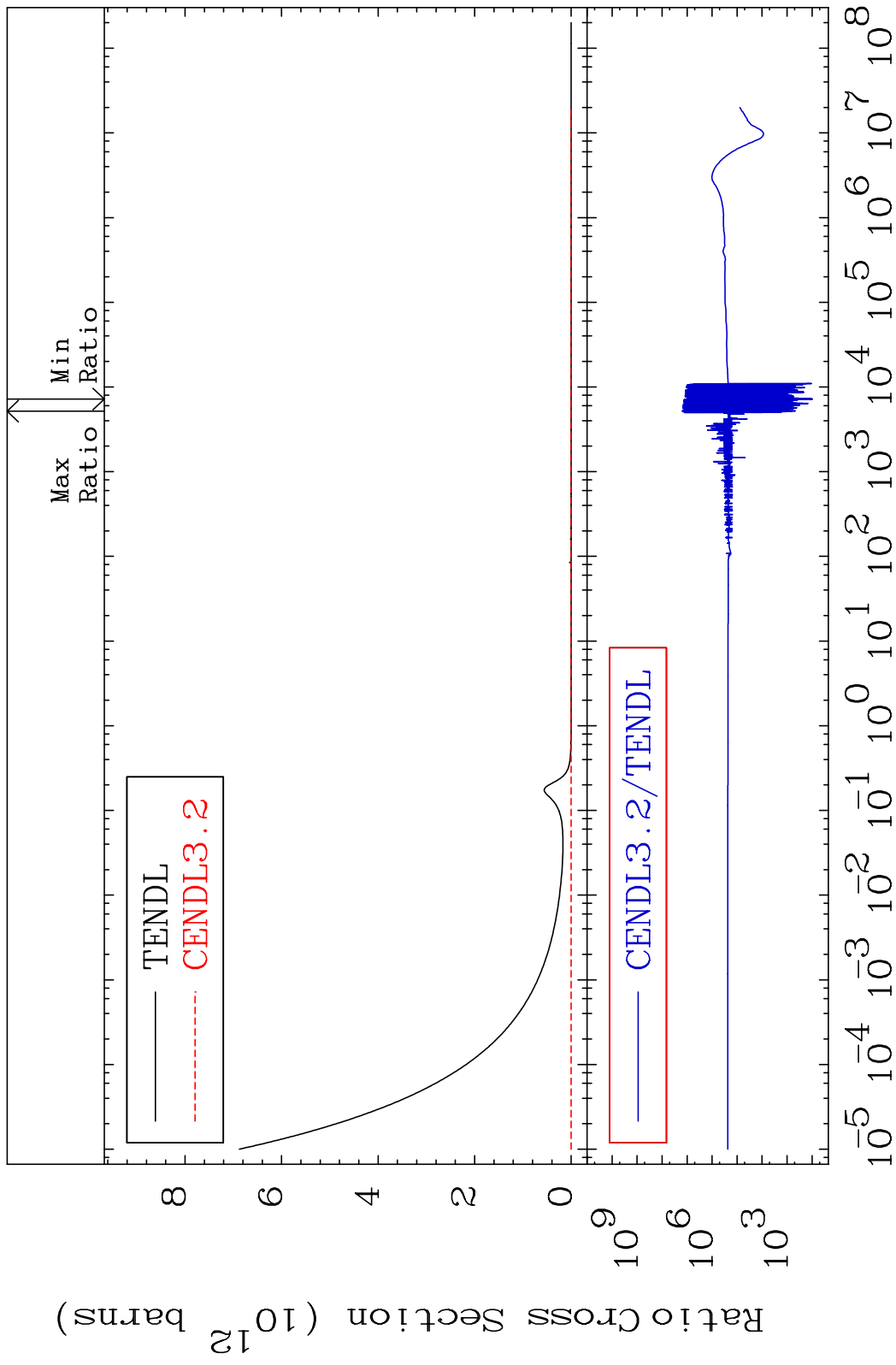


MAT 4846

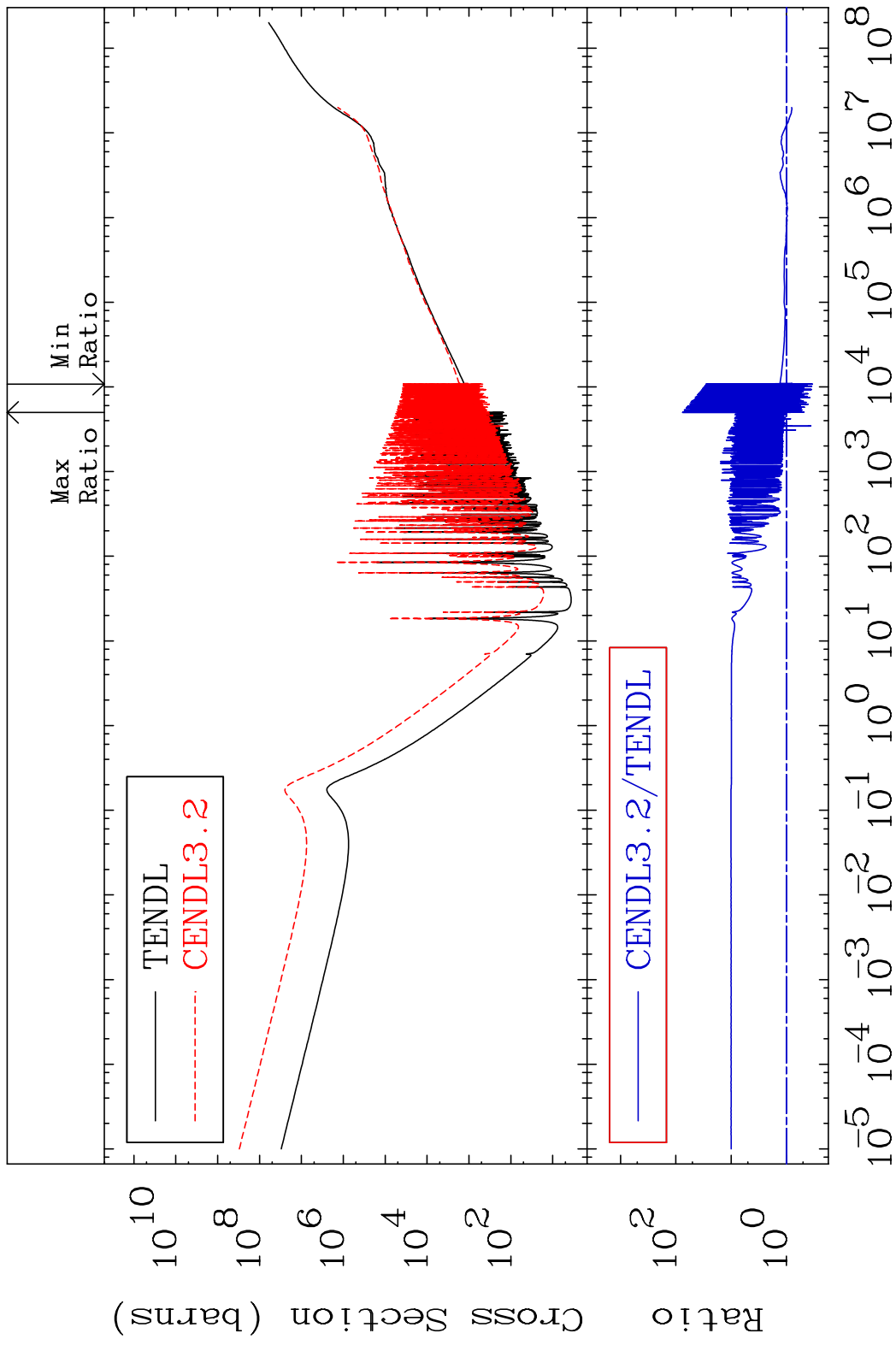
Kerma capture (mt102) 48-Cd-113
Cross Section 9444. To 9999. %



MAT 4846 Total photon (eV-barns) 48-Cd-113
Cross Section 9444. To 9999. %



MAT 4846 Total kinematic kerma (high limit) 48-Cd-113
 Cross Section -66.49 To 7536. %

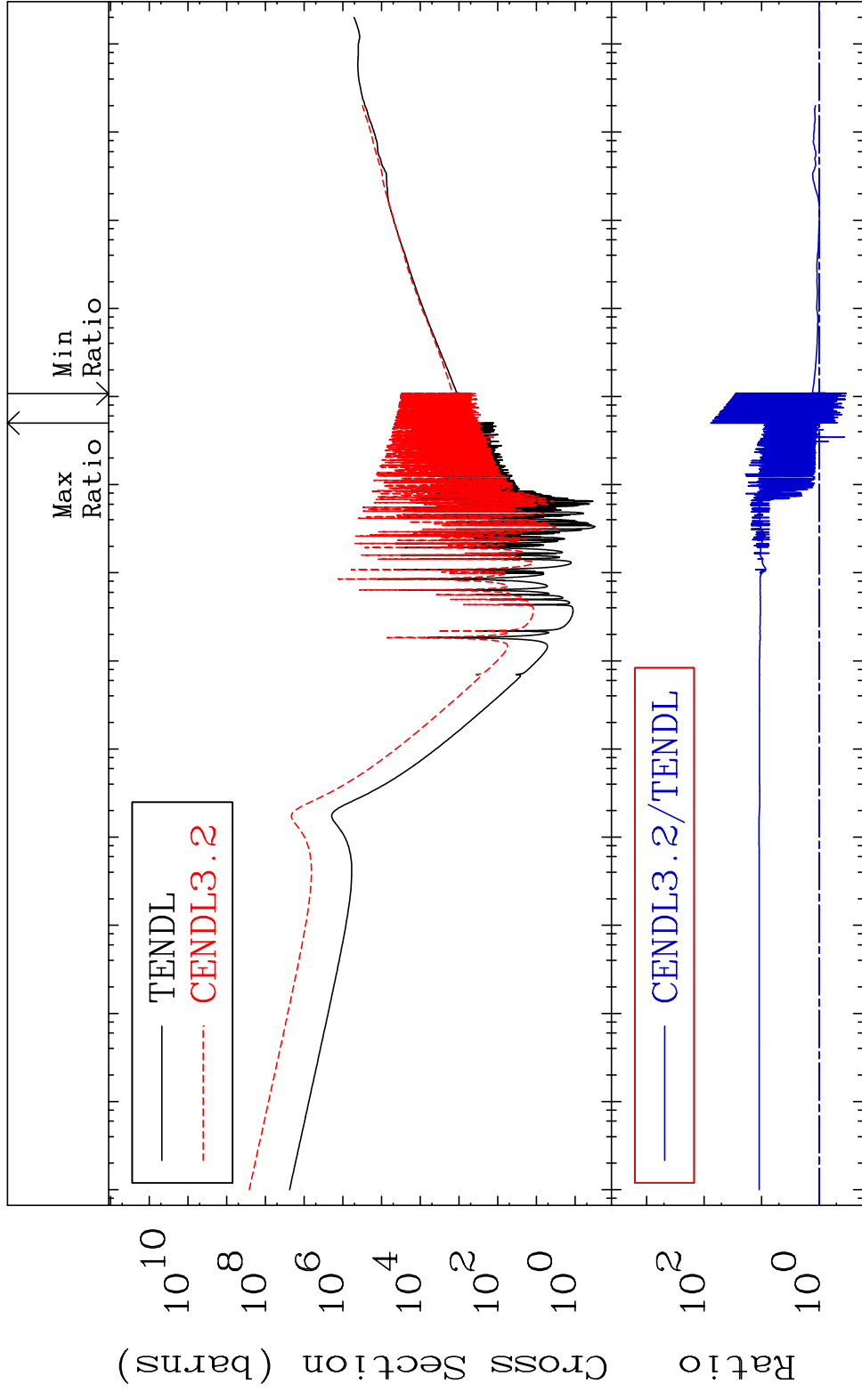


MAT 4846

Dpa total (eV-barns)

48-Cd-113

Cross Section -66.49 To 7551. %



47

Incident Energy (eV)

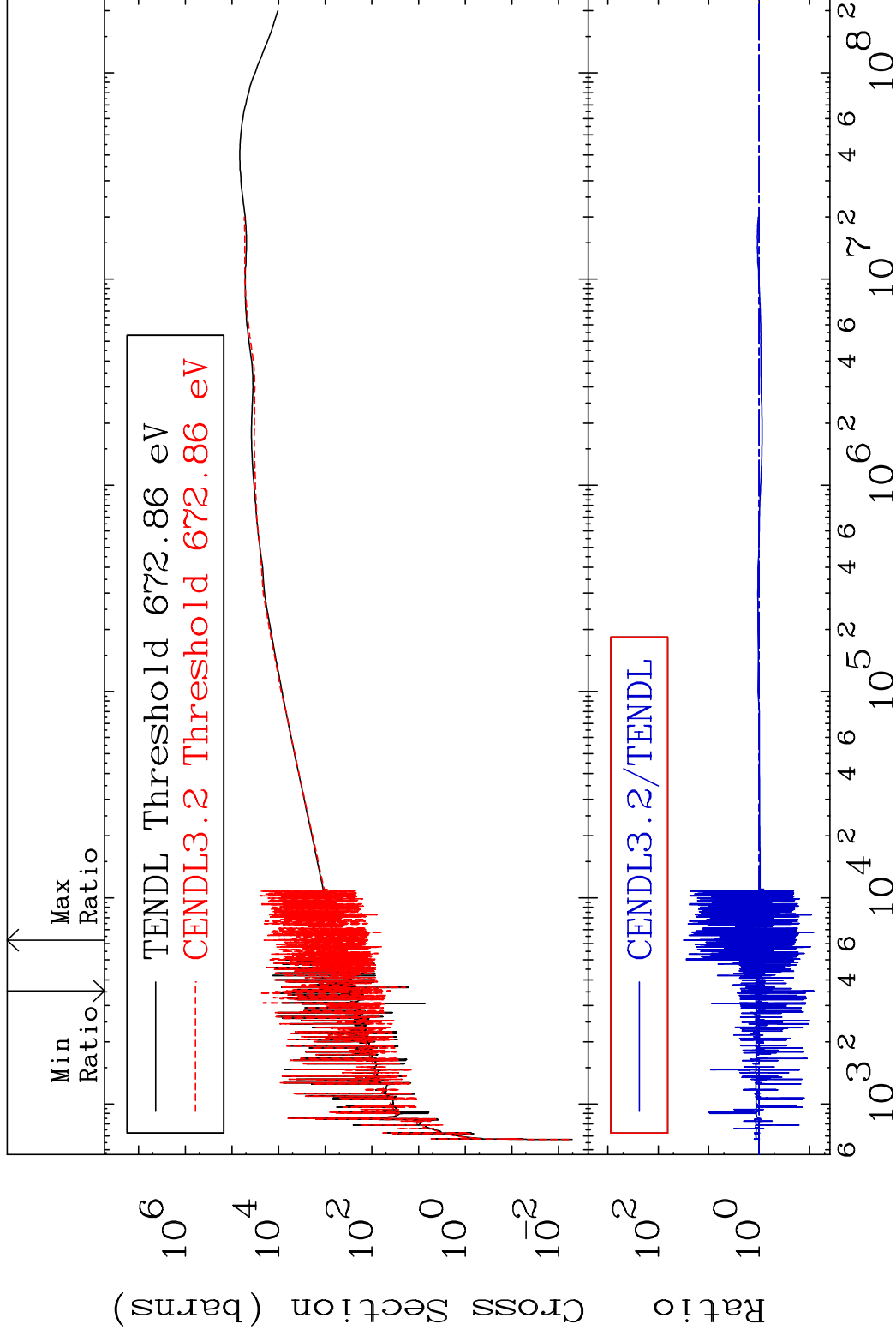
48-Cd-113

MAT 4846

Dpa elastic (mt2)

48-Cd-113

Cross Section -91.91 To 3037. %

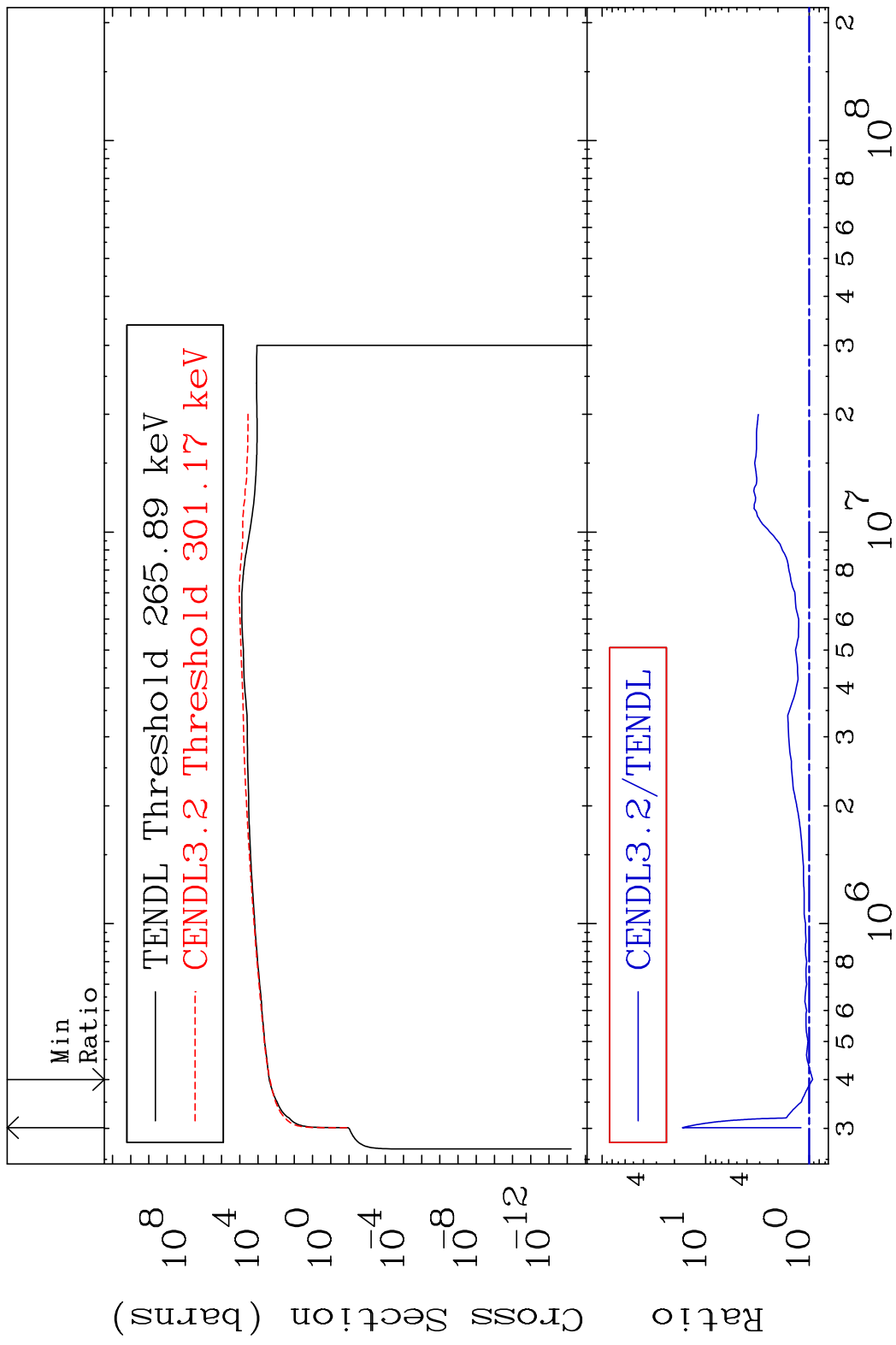


48

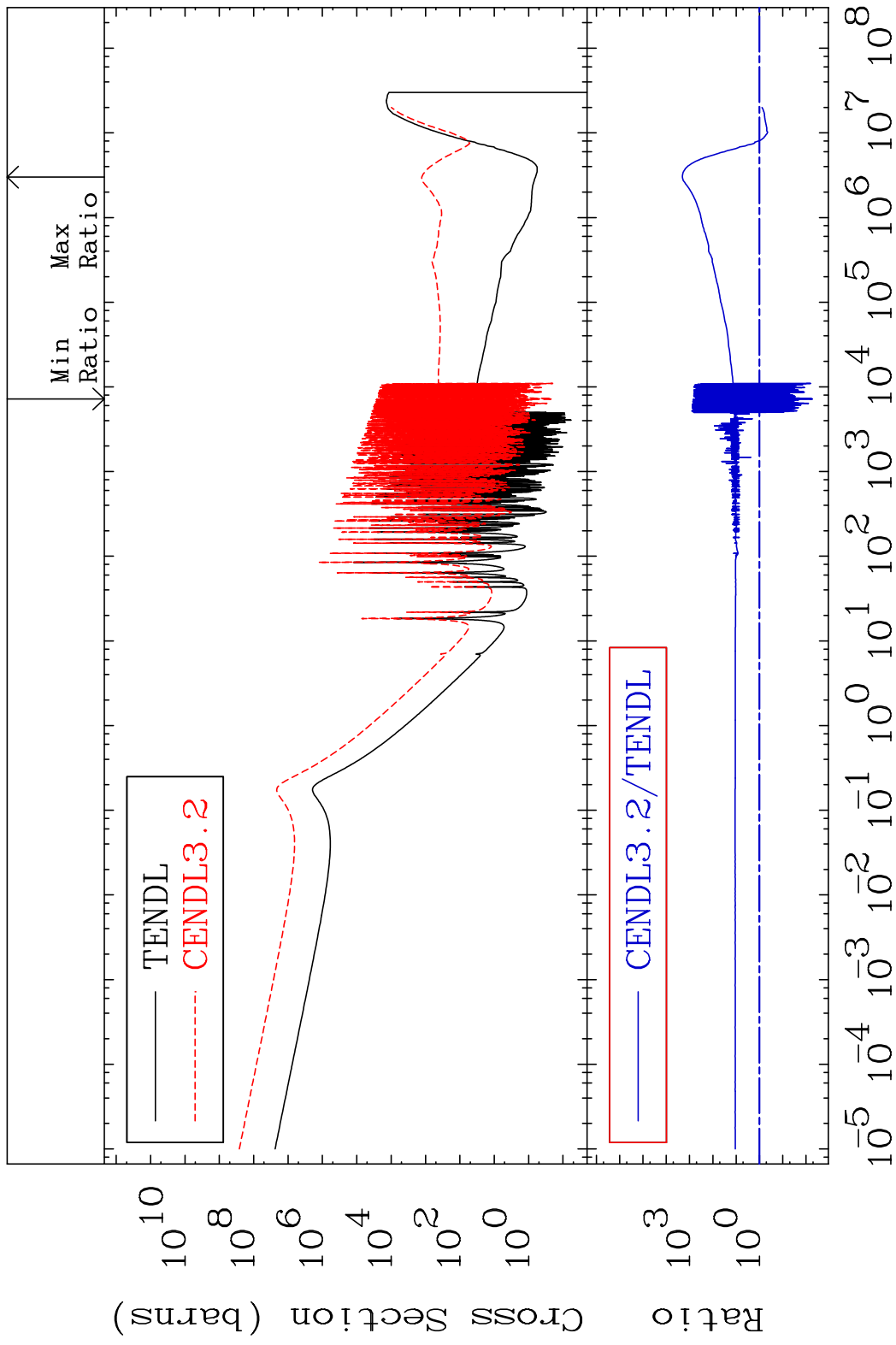
Incident Energy (eV)

48-Cd-113

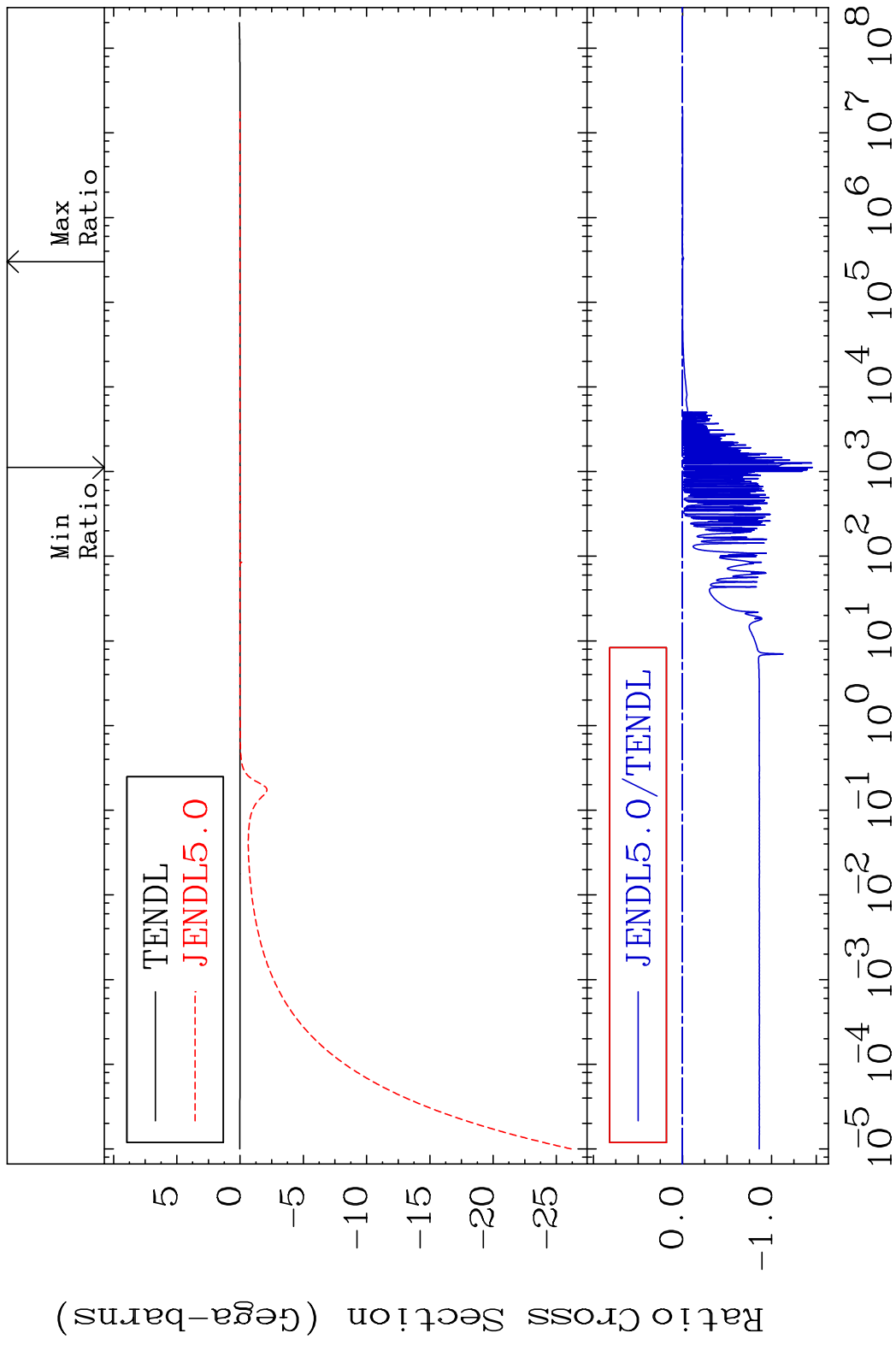
MAT 4846 Dpa inelastic (mt51-91) 48-Cd-113
 Cross Section -7.410 To 1580. %



MAT 4846 Dpa disappearance (mt102 -120) 48-Cd-113
 Cross Section -99.48 To 9999. %



MAT 4846 Kerma total (eV-barns) 48-Cd-113
Cross Section -9999. To 150.9 %

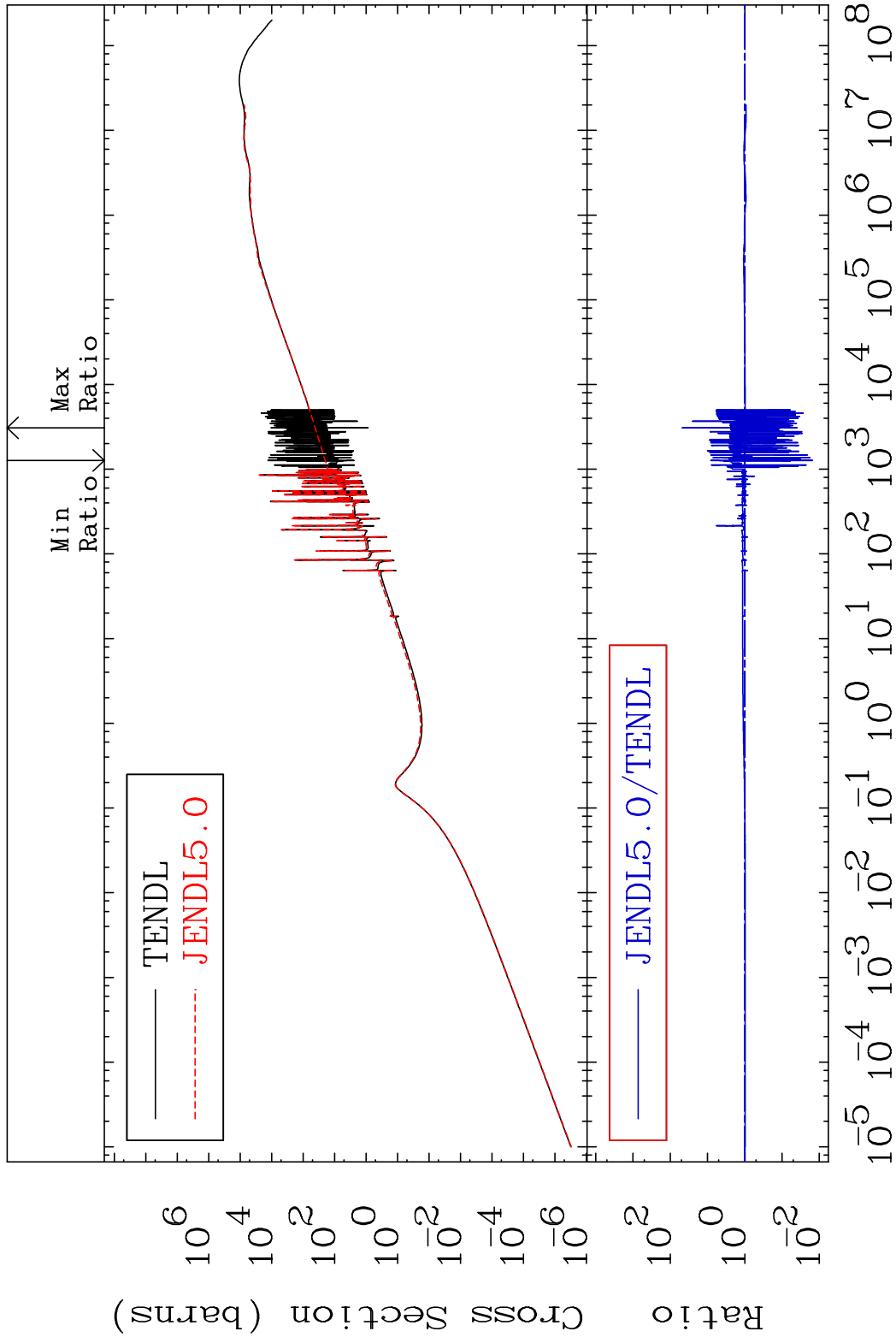


MAT 4846

Kerma elastic

48-Cd-113

Cross Section -98.48 To 4642. %

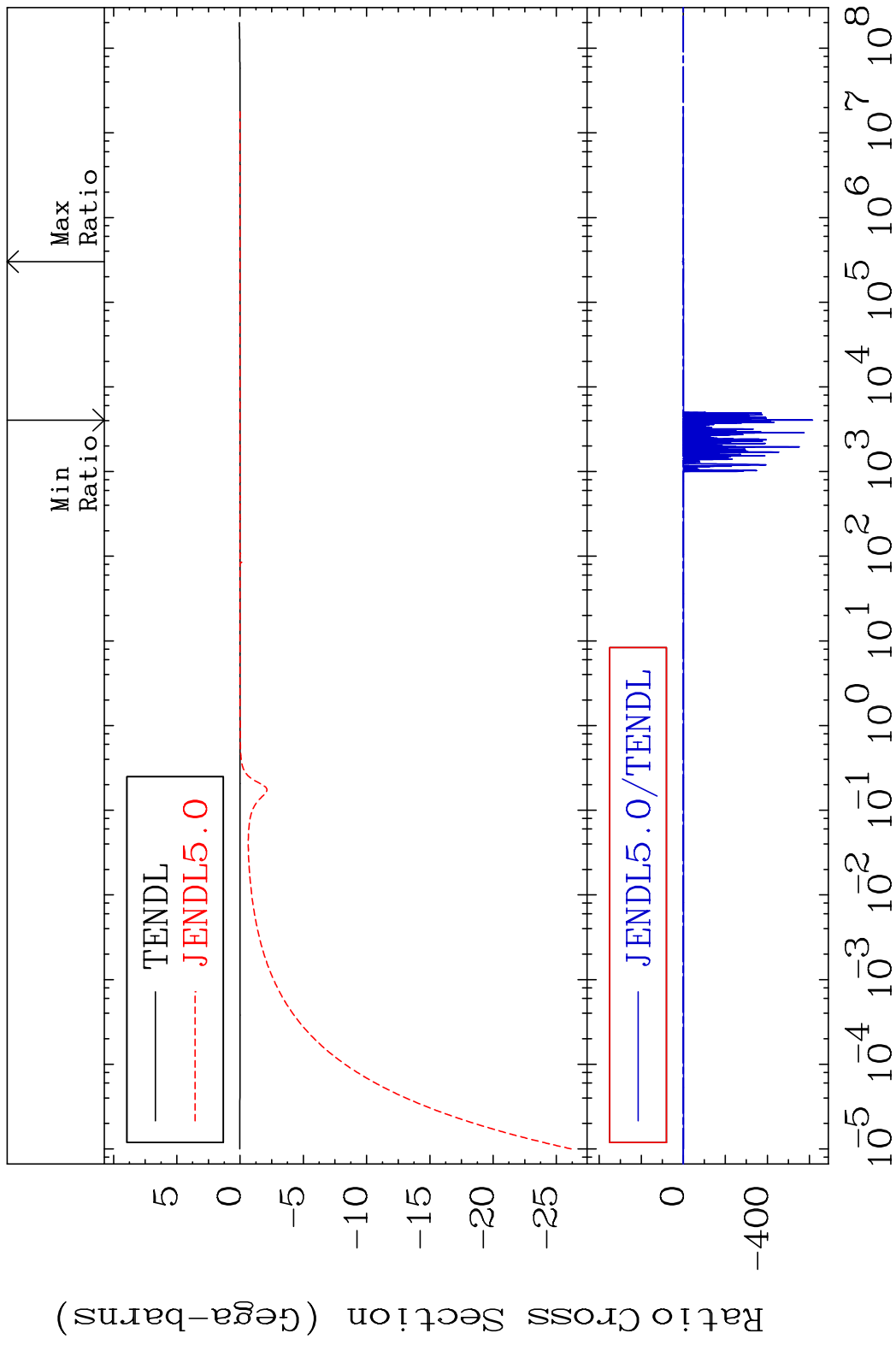


52

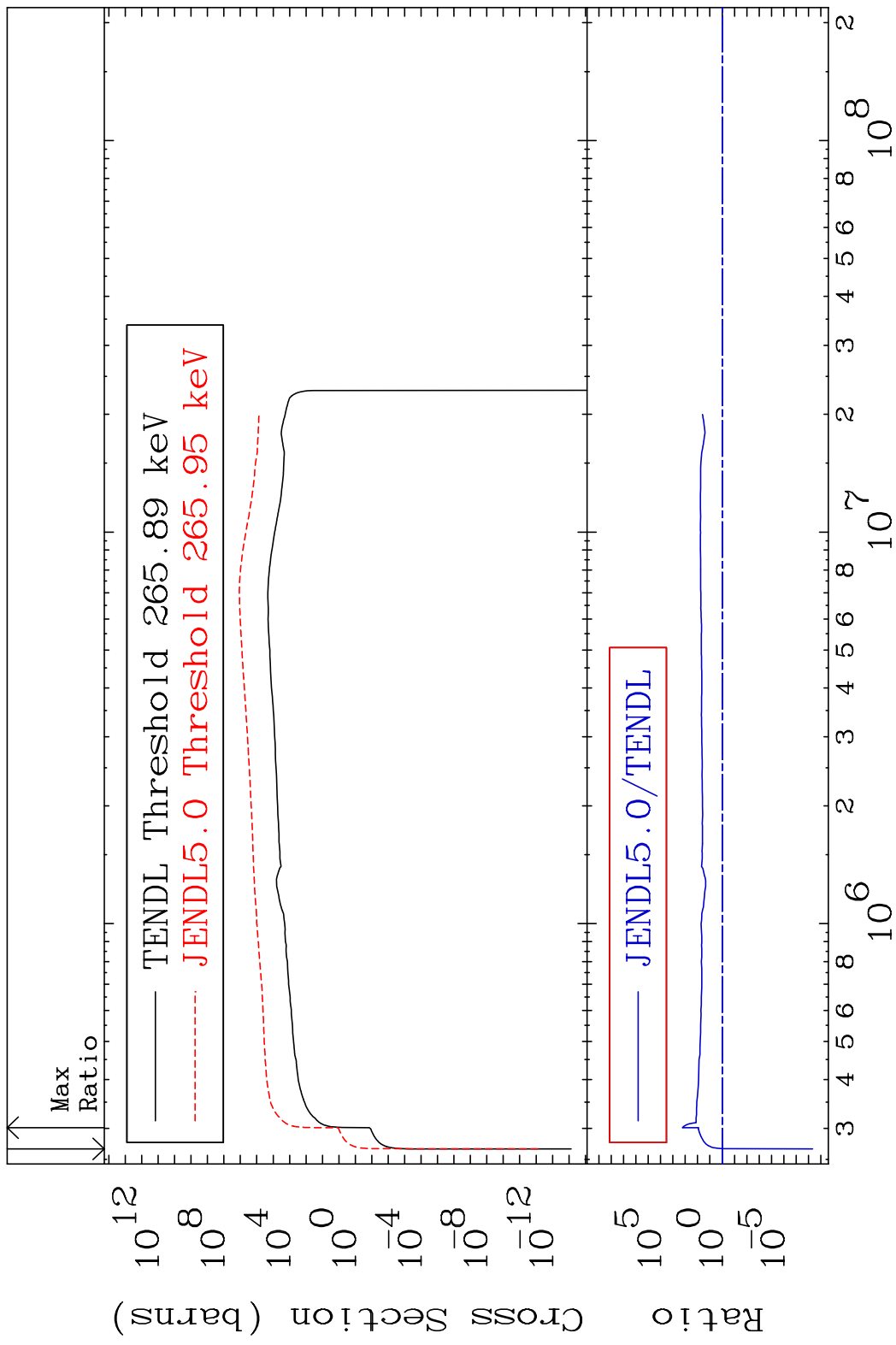
Incident Energy (eV)

48-Cd-113

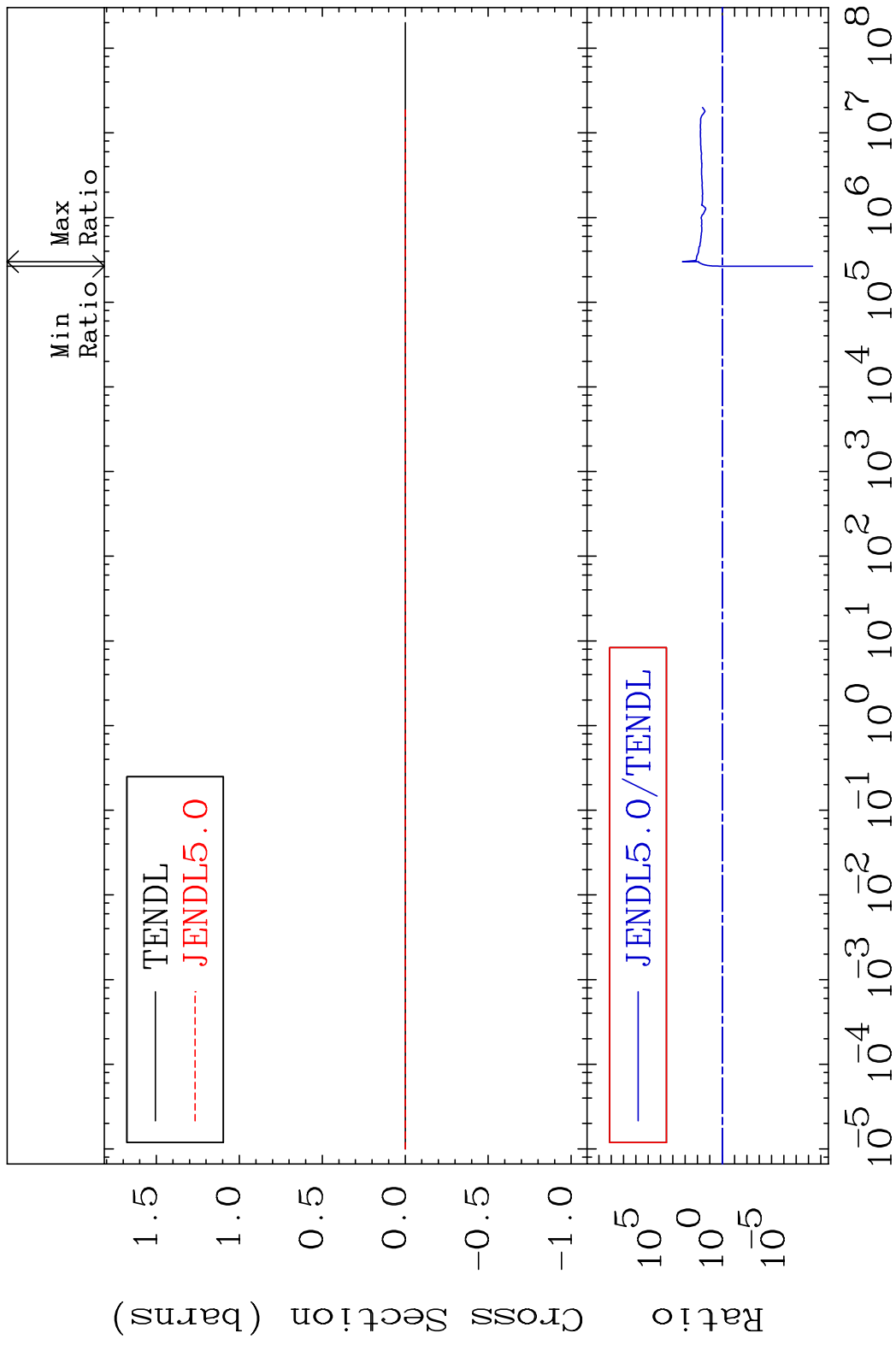
MAT 4846 Kerma non-elastic (all but mt2) 48-Cd-113
 Cross Section -9999. To 9999. %

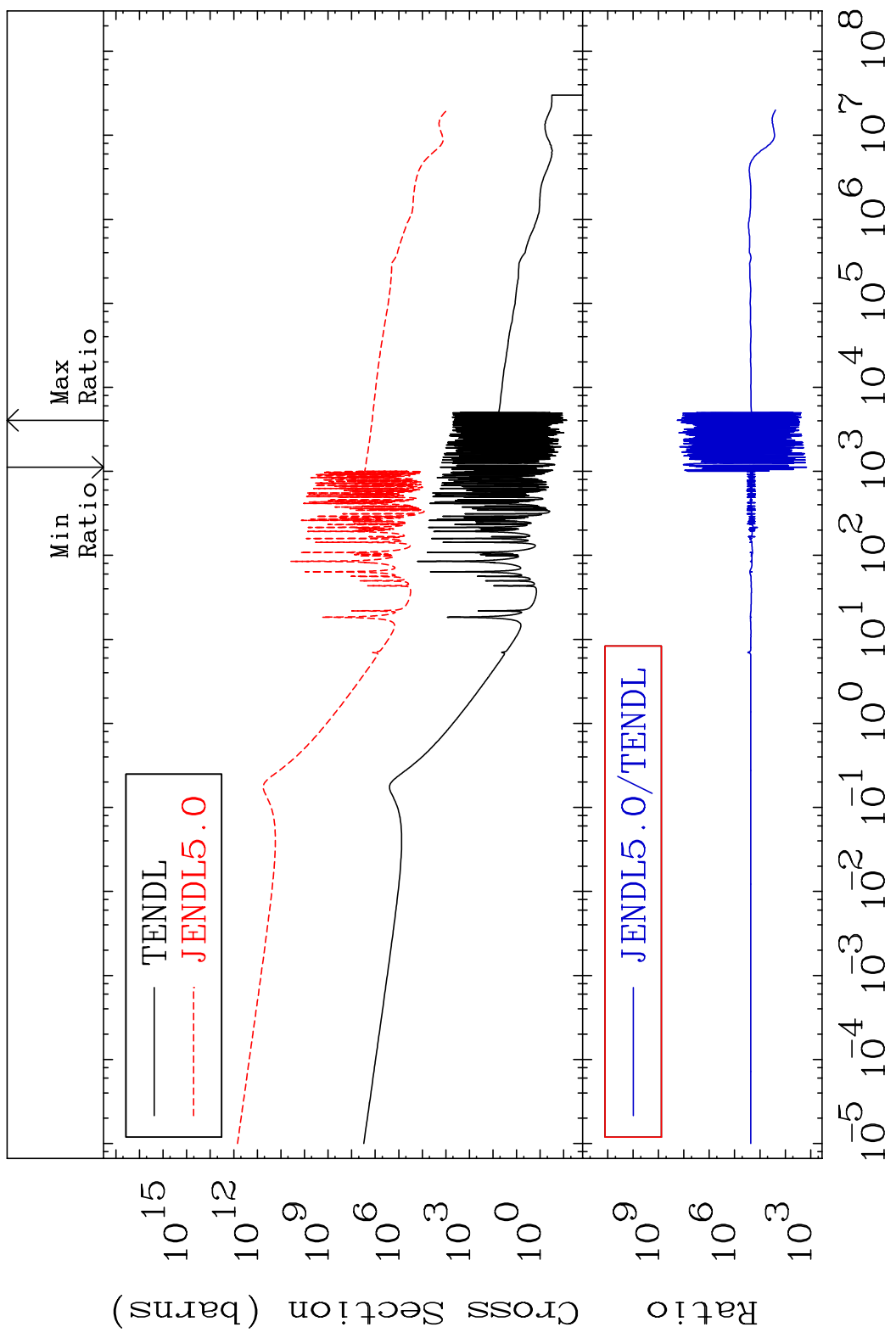


MAT 4846 Kerma inelastic (mt51-91) 48-Cd-113
 Cross Section -100.0 To 9999. %



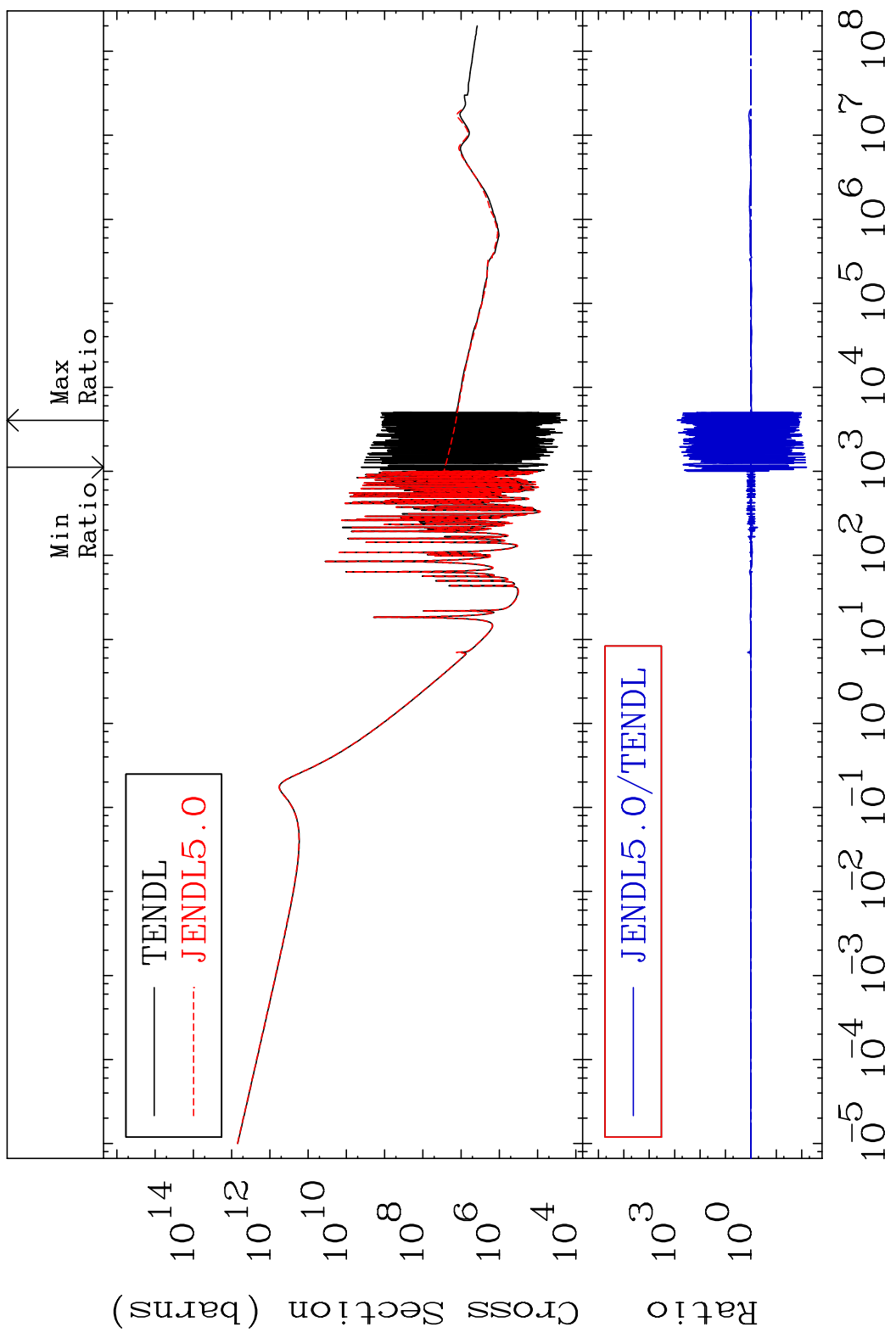
MAT 4846 Kerma fission (mt18 or mt19-20-21-38) 48-Cd-113
 Cross Section -100.0 To 9999. %





MAT 4846

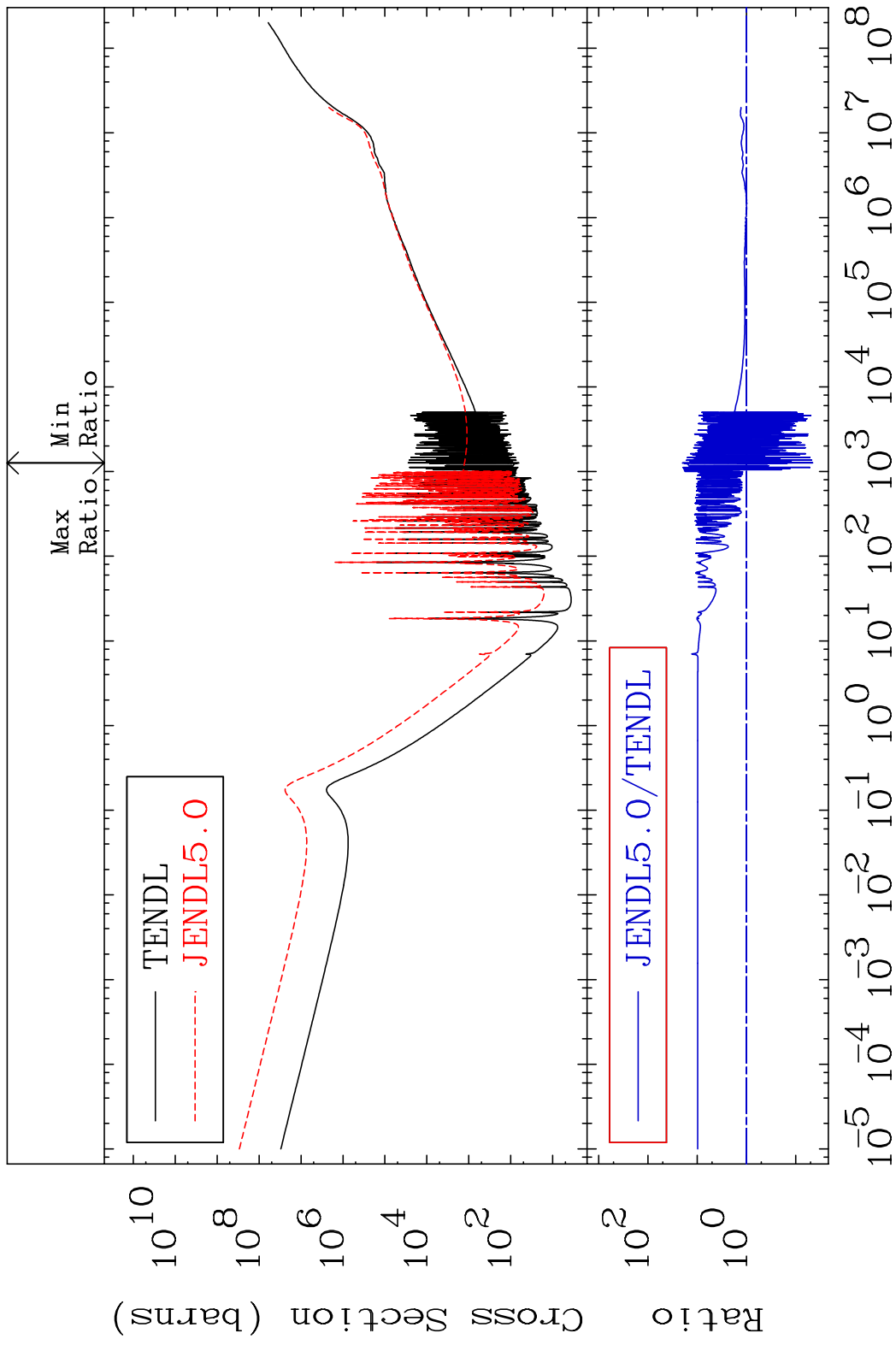
Total photon (eV-barns) 48-Cd-113
Cross Section -99.35 To 9999. %



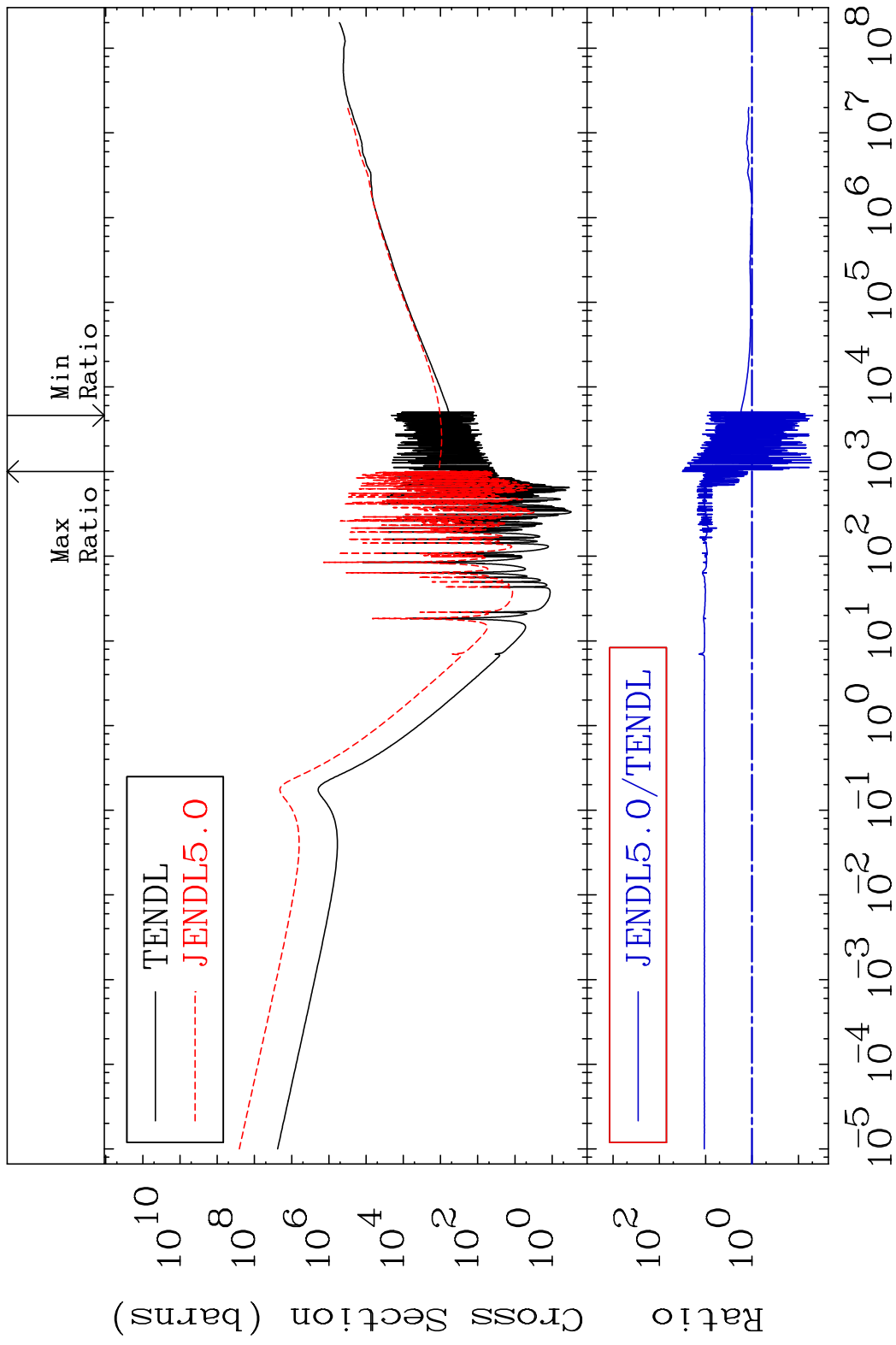
57

Incident Energy (eV) 48-Cd-113

MAT 4846 Total kinematic kerma (high limit) 48-Cd-113
 Cross Section -95.47 To 1895. %



MAT 4846 Dpa total (eV-barns) 48-Cd-113
 Cross Section -95.06 To 3097. %



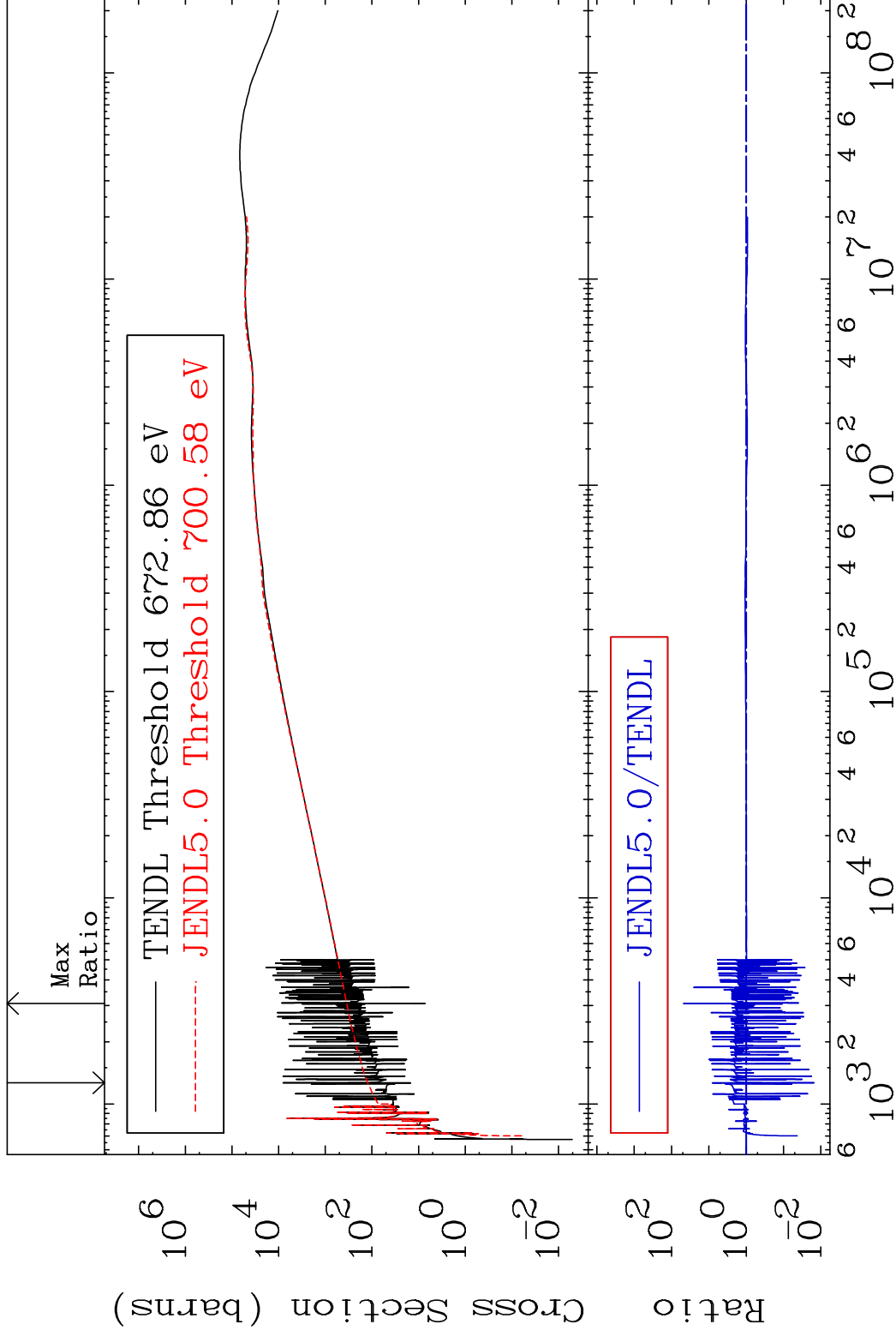
59 Incident Energy (eV) 48-Cd-113

MAT 4846

Dpa elastic (mt2)

48-Cd-113

Cross Section -98.48 To 4629. %

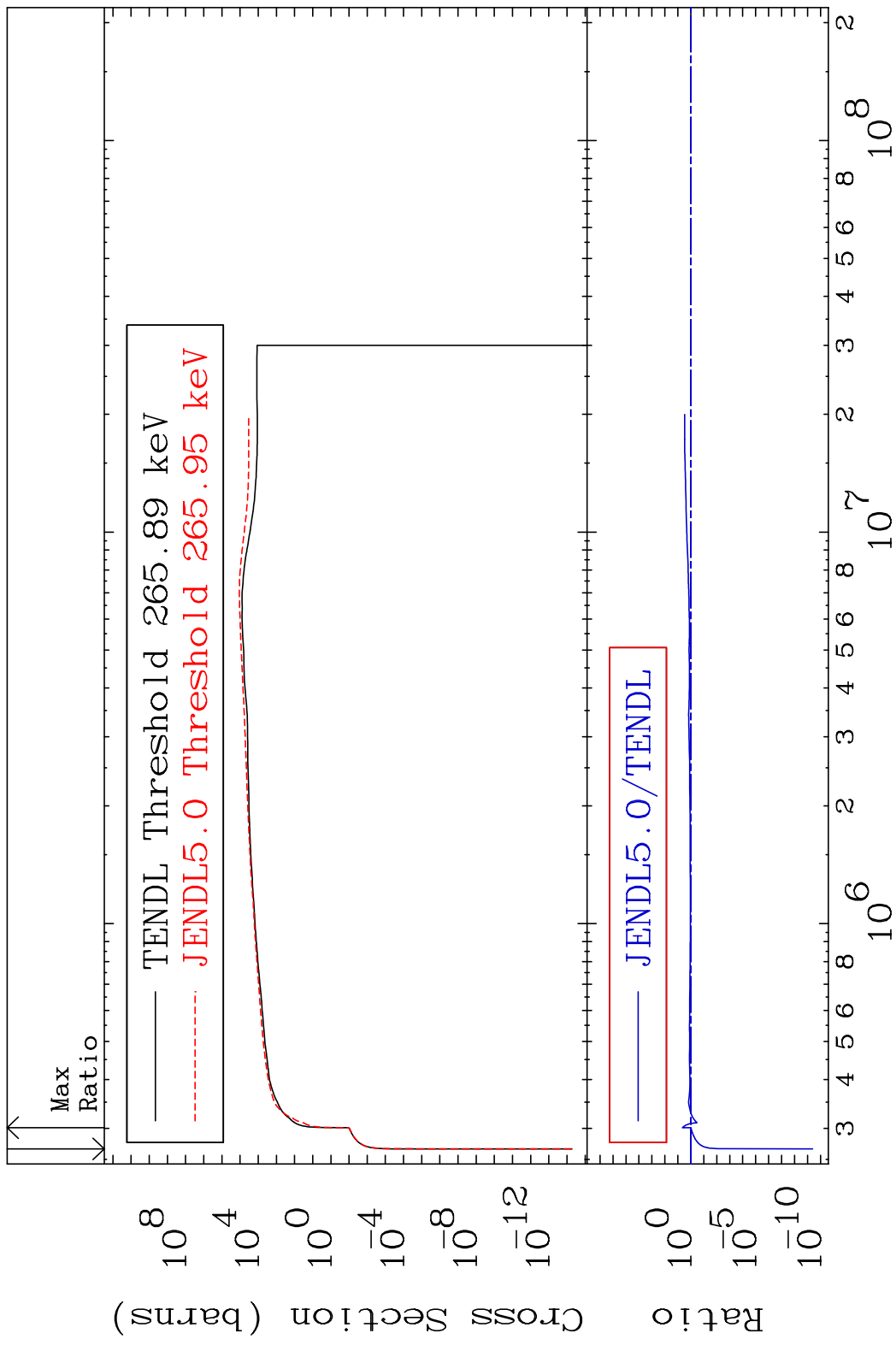


60

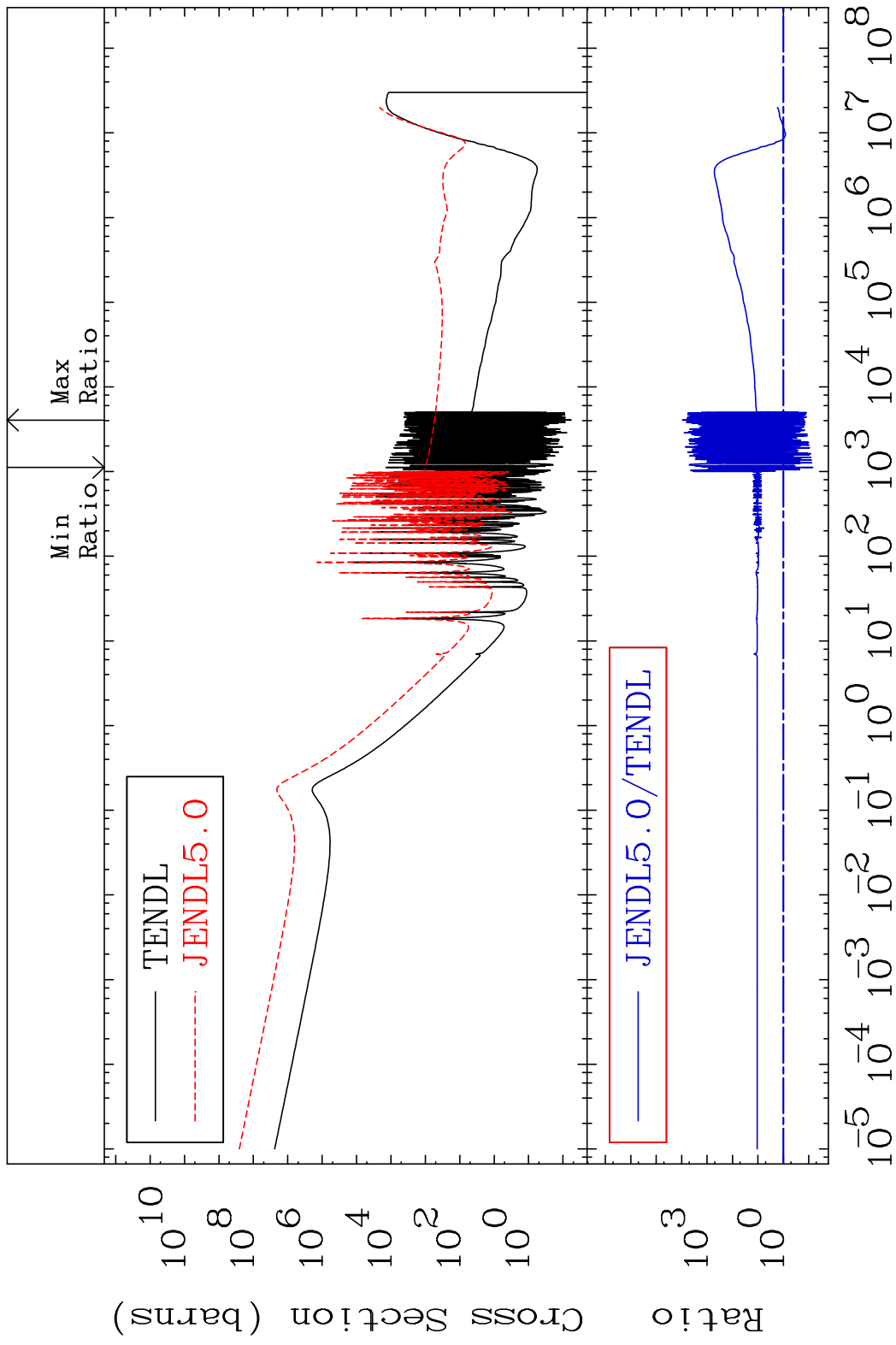
Incident Energy (eV)

48-Cd-113

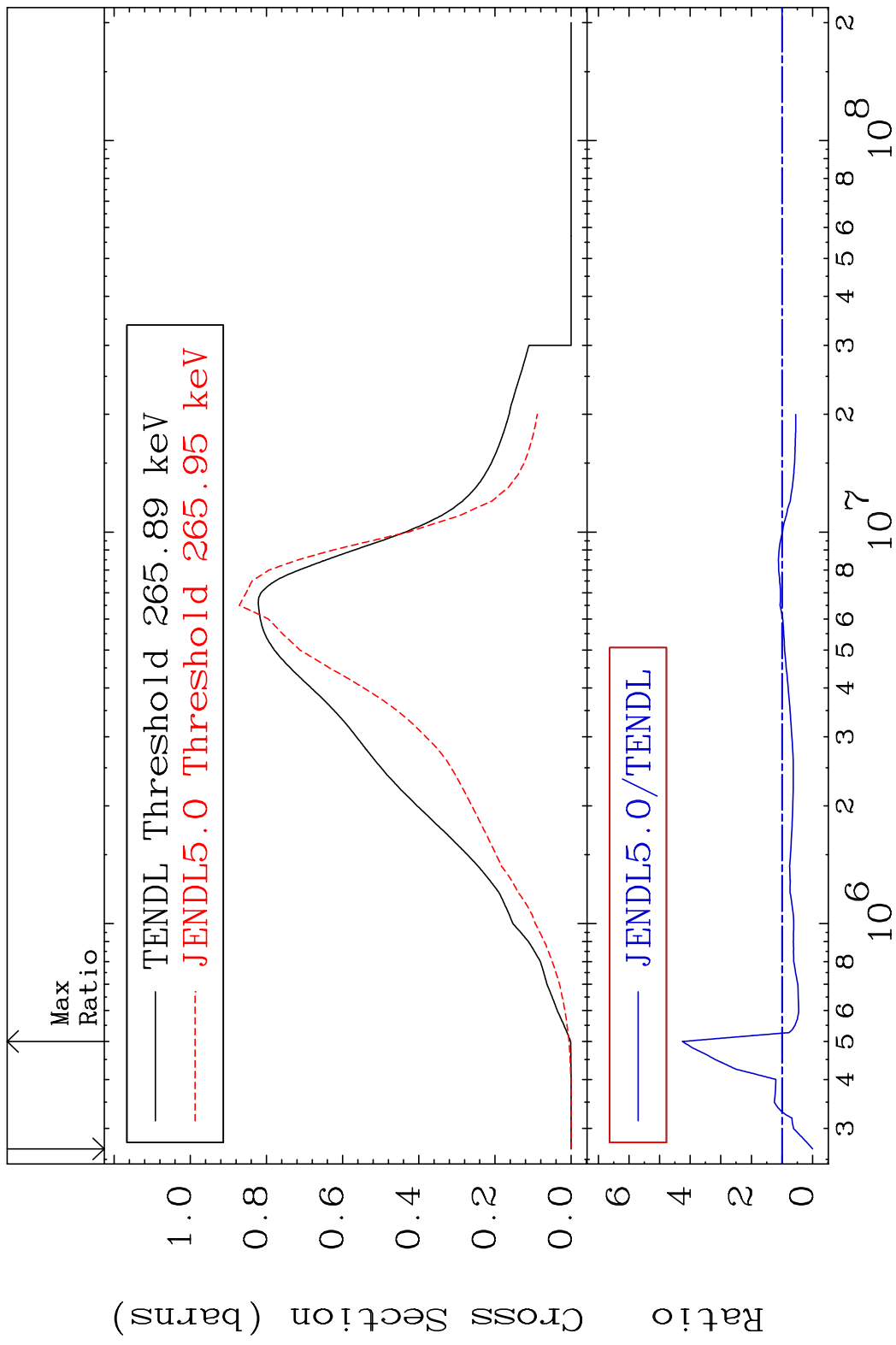
MAT 4846 Dpa inelastic (mt51-91) 48-Cd-113
 Cross Section -100.0 To 349.3 %



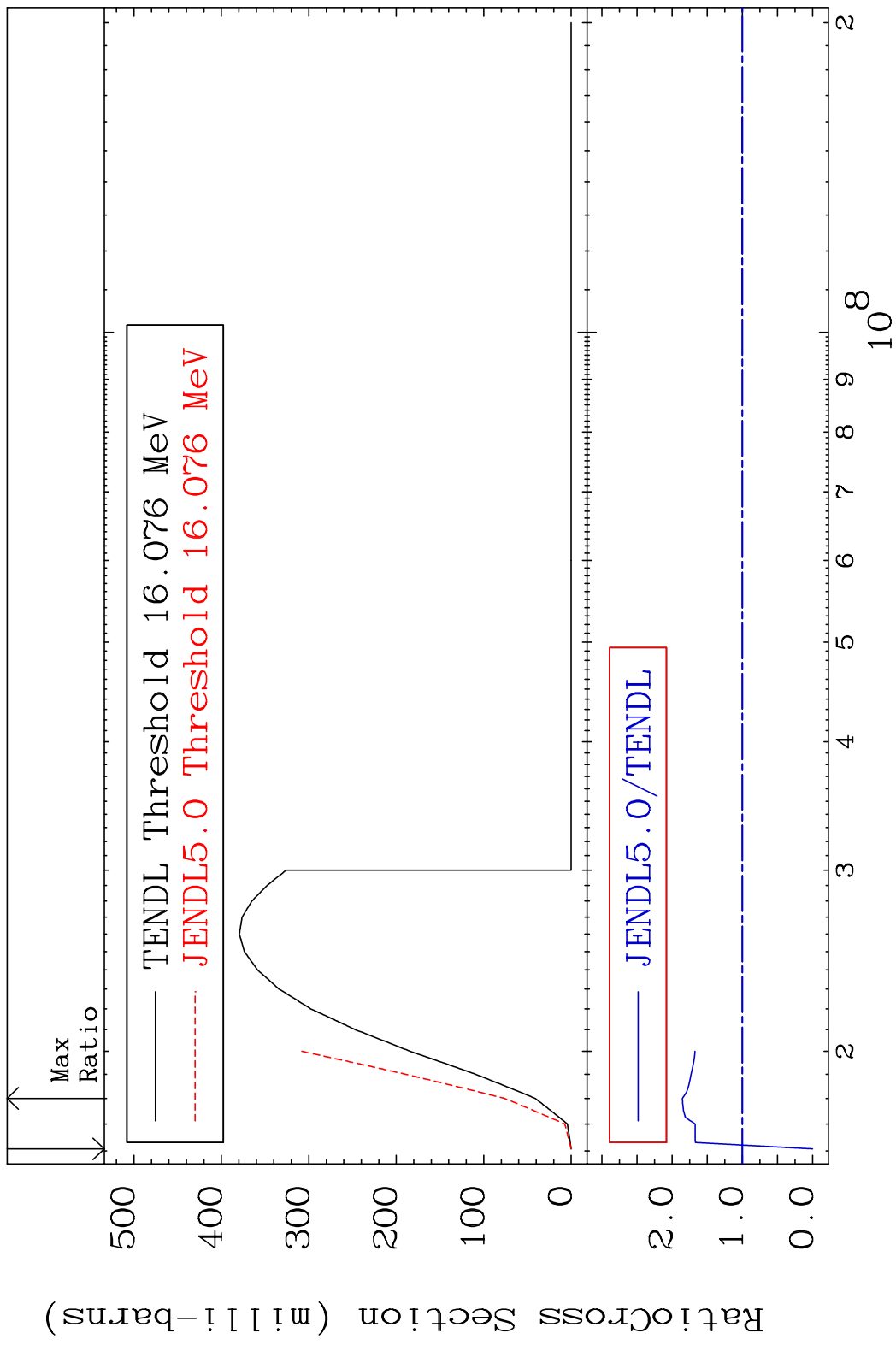
MAT 4846 Dpa disappearance (mt102 -120) 48-Cd-113
 Cross Section -92.94 To 9999. %



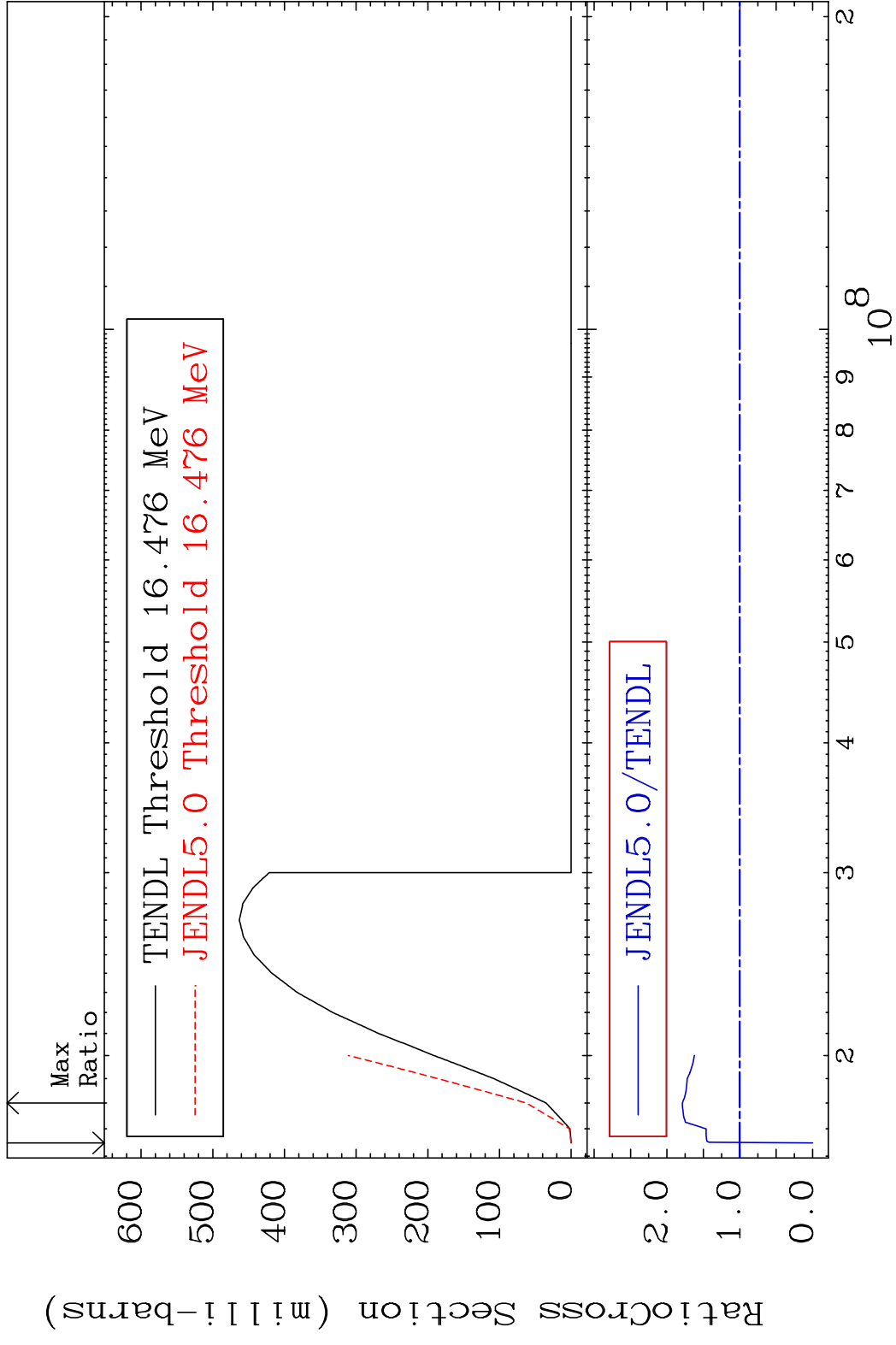
62 Incident Energy (eV) 48-Cd-113

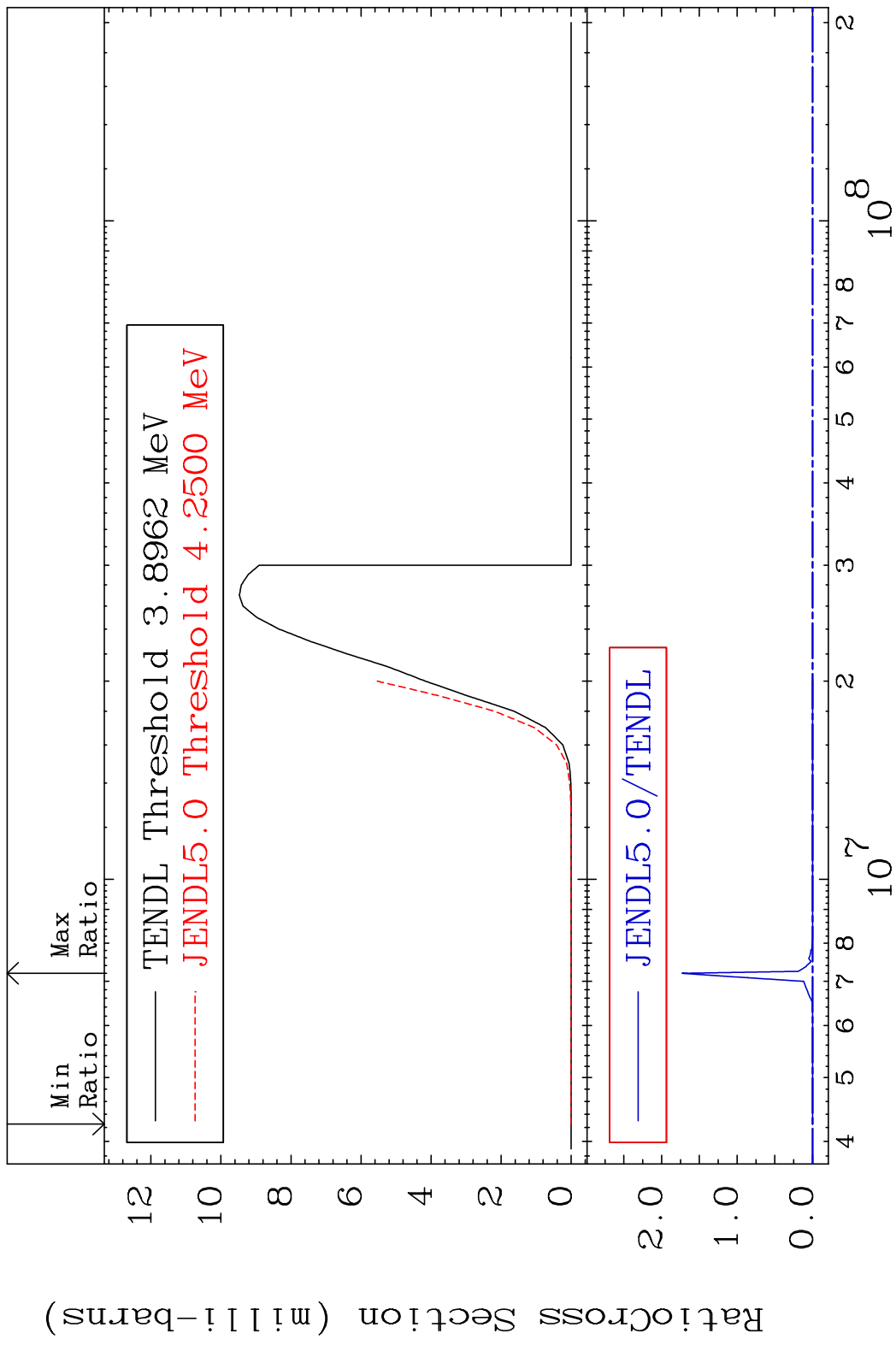


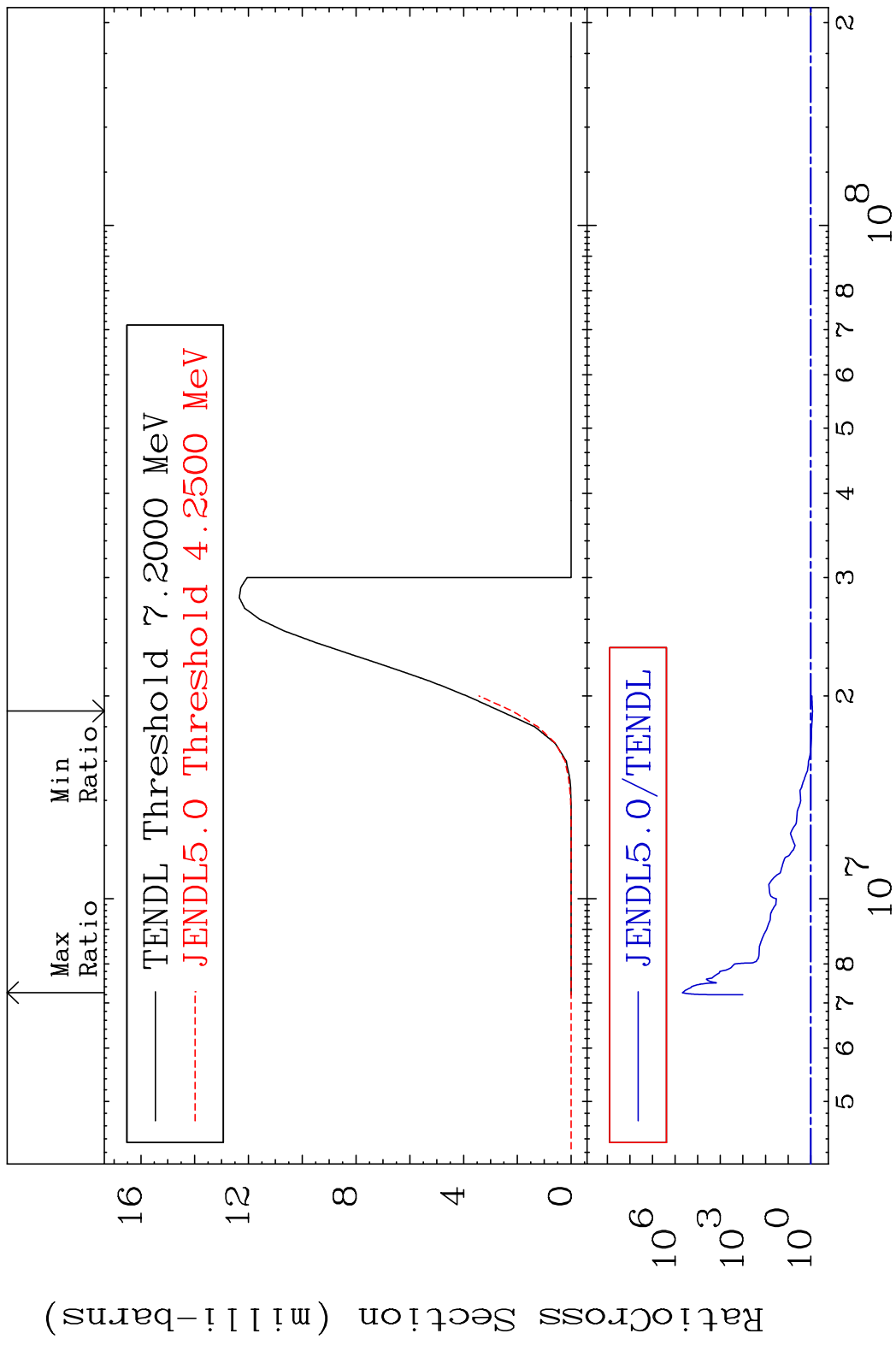
MAT 4846 (n,3n):48-Cd-111g 48-Cd-113
 Radionuclide Production Cross Section to 85.32 %

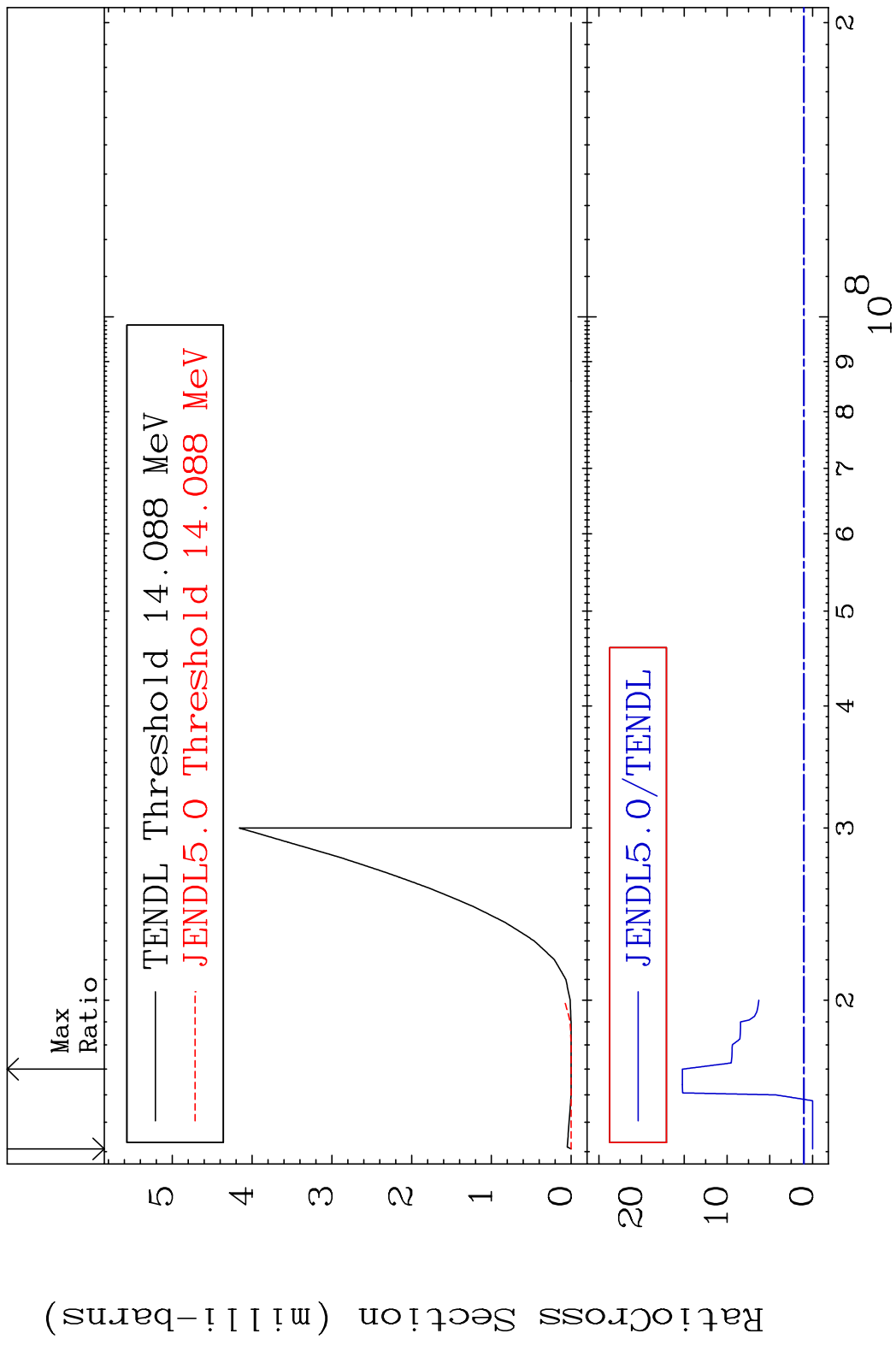


MAT 4846 (n, 3n) : 48-Cd-111m3 48-Cd-113
 Radionuclide Production Cross Section Ratio 78.82 %

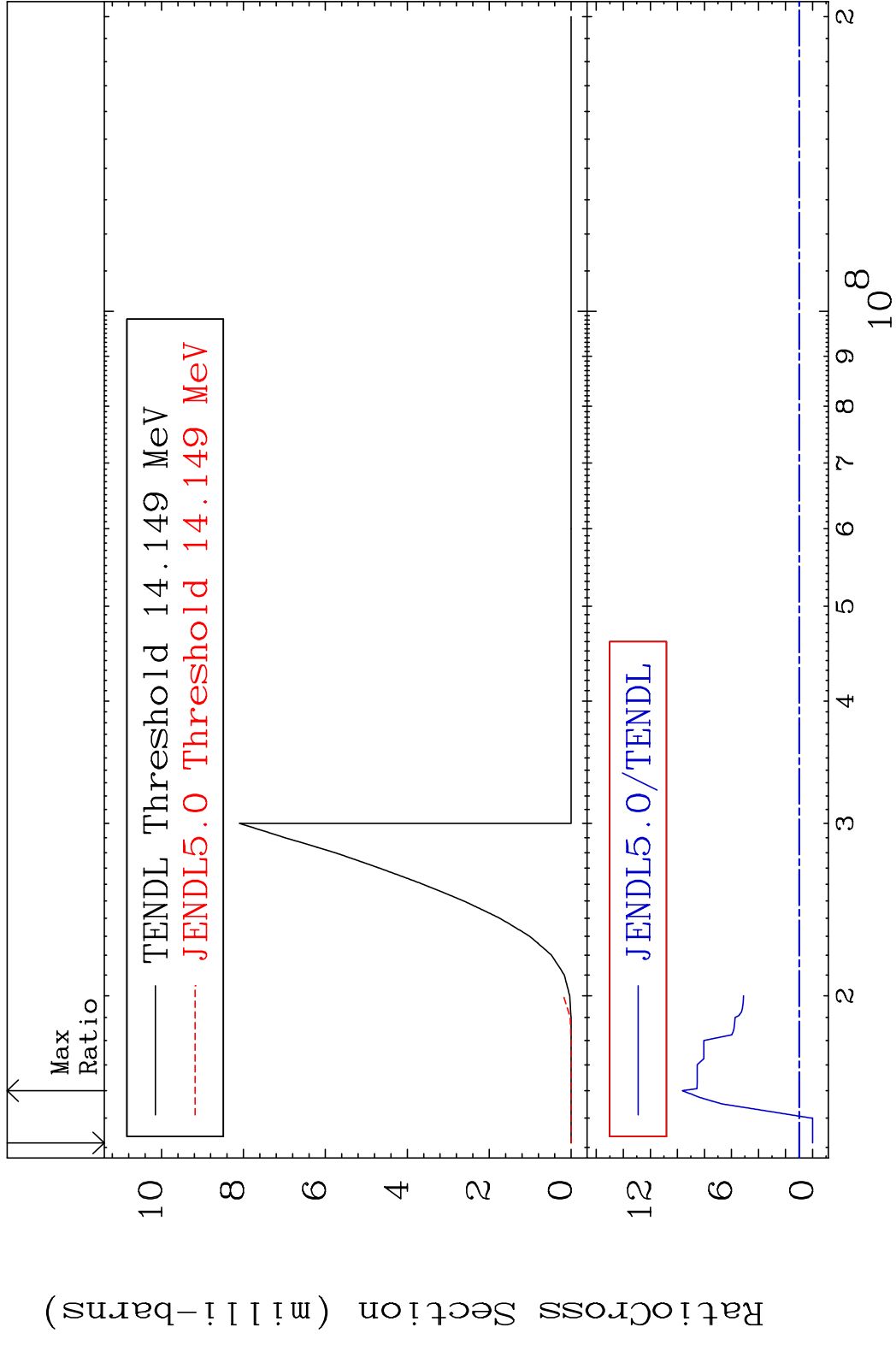




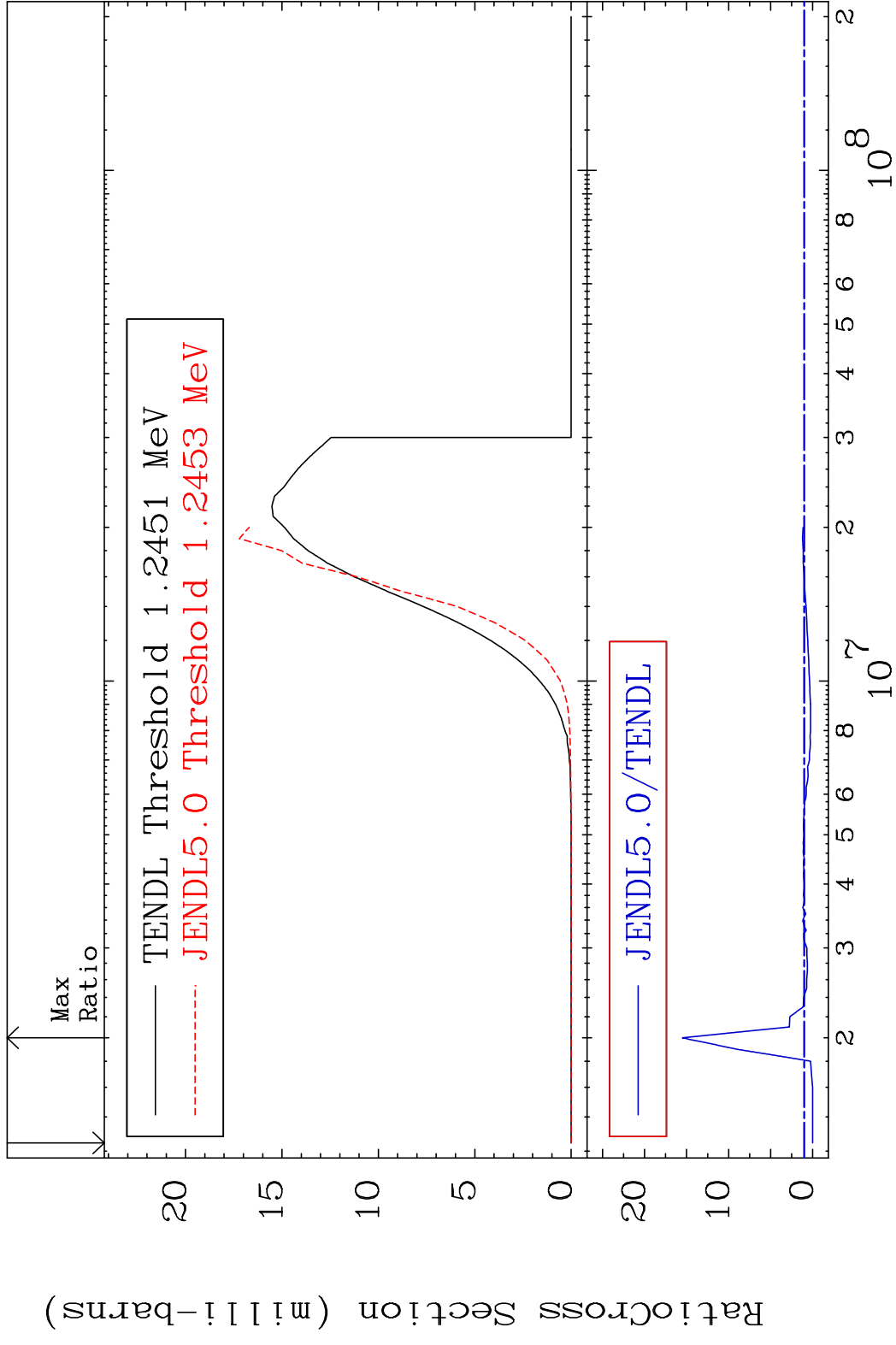




MAT 4846 (n, n') d:47-Ag-111m1 48-Cd-113
 Radionuclide Production Cross Section Ratio 863.3 %



MAT 4846 (n,p):47-Ag-113g 48-Cd-113
 Radionuclide Production Cross Section 1800.0 dno 1451. %



70 Incident Energy (eV) 48-Cd-113

MAT 4846 (n, p): 47-Ag-113m1 48-Cd-113
 Radionuclide Production Cross Section 180.01 dth 2430. %

