

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

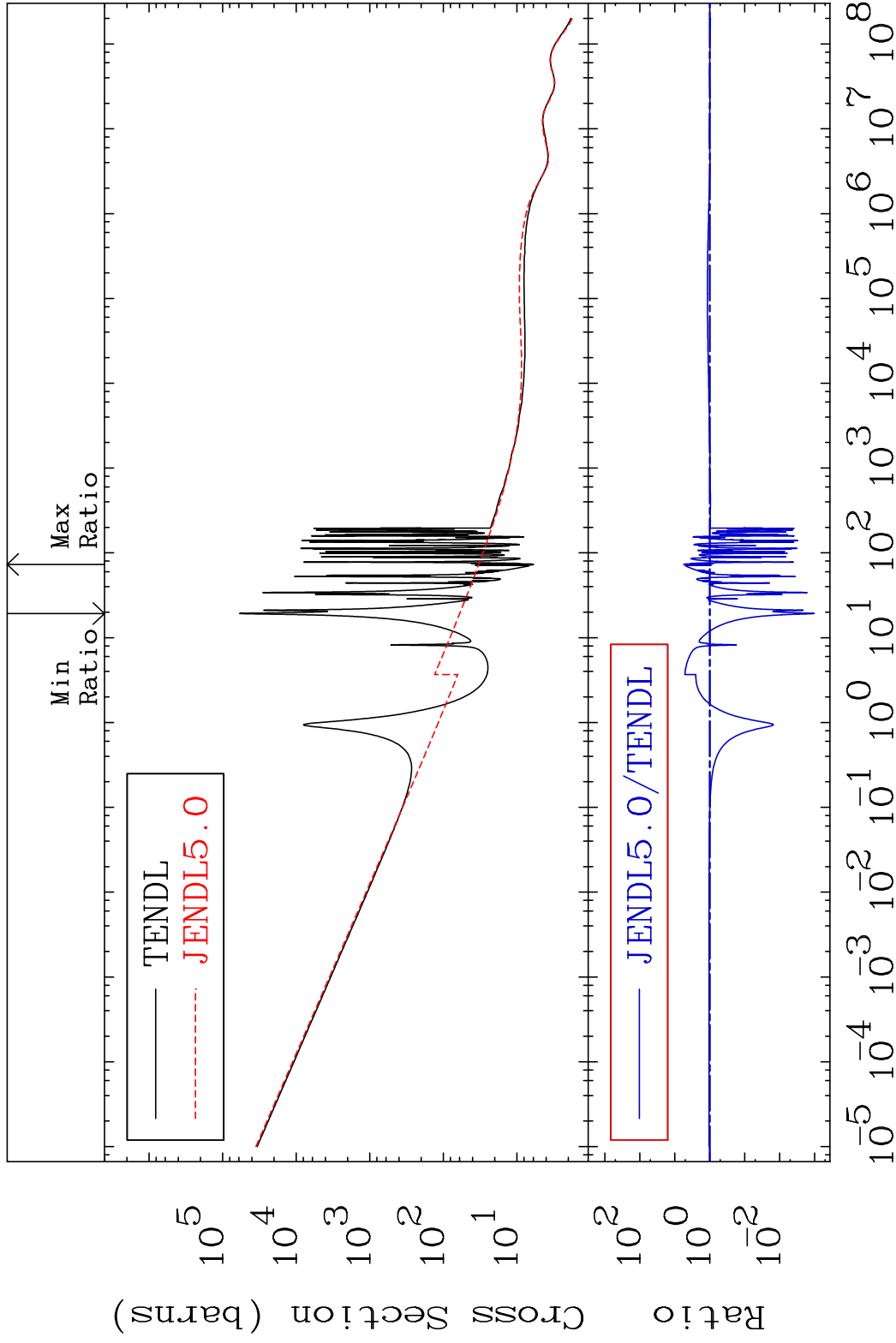
Press Mouse Button to Start

MAT 4834

Total

48-Cd-109

Cross Section -99.90 To 456.6 %



1

Incident Energy (eV)

48-Cd-109

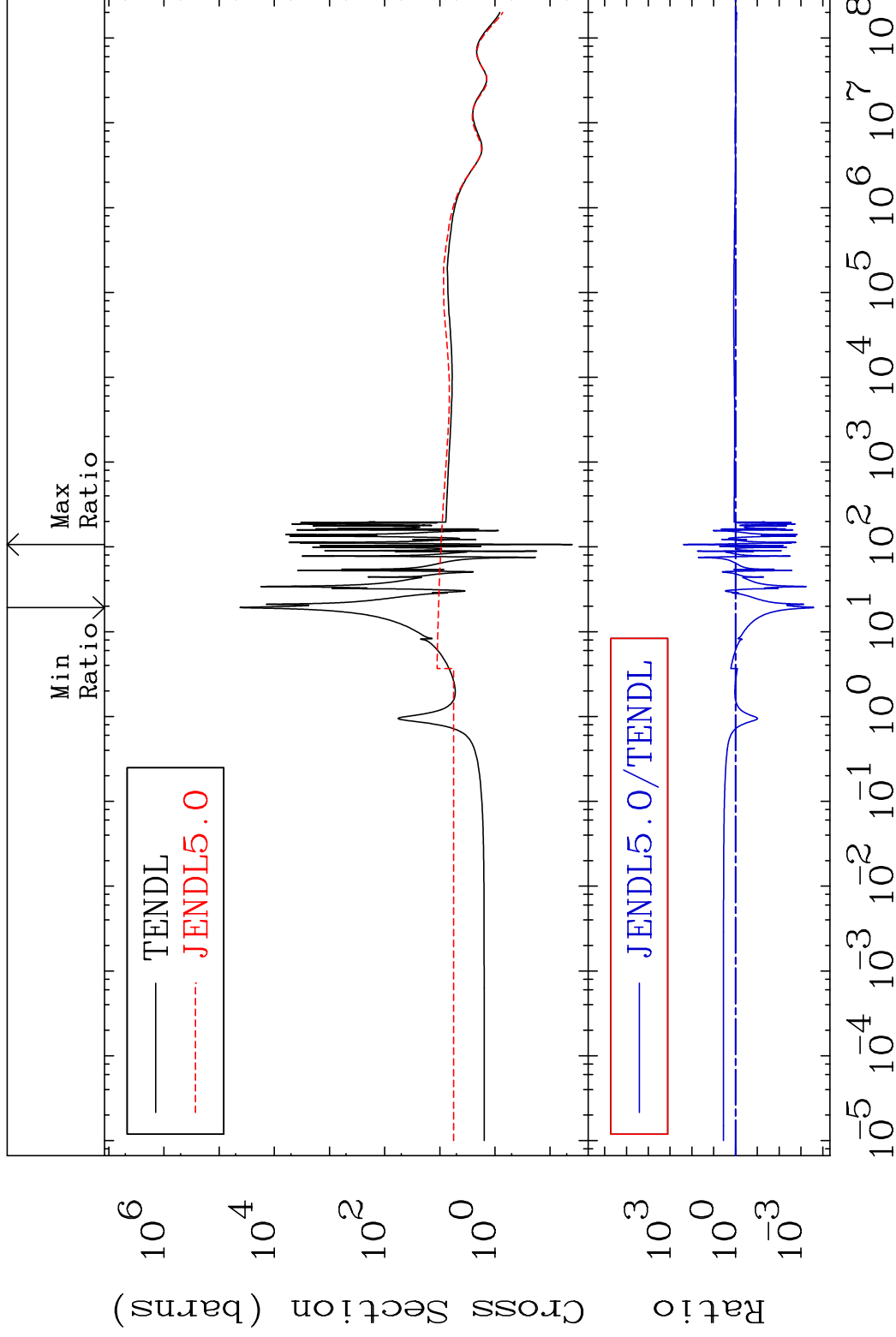
MAT 4834

Elastic

48-Cd-109

Cross Section

-99.97 To 9999. %

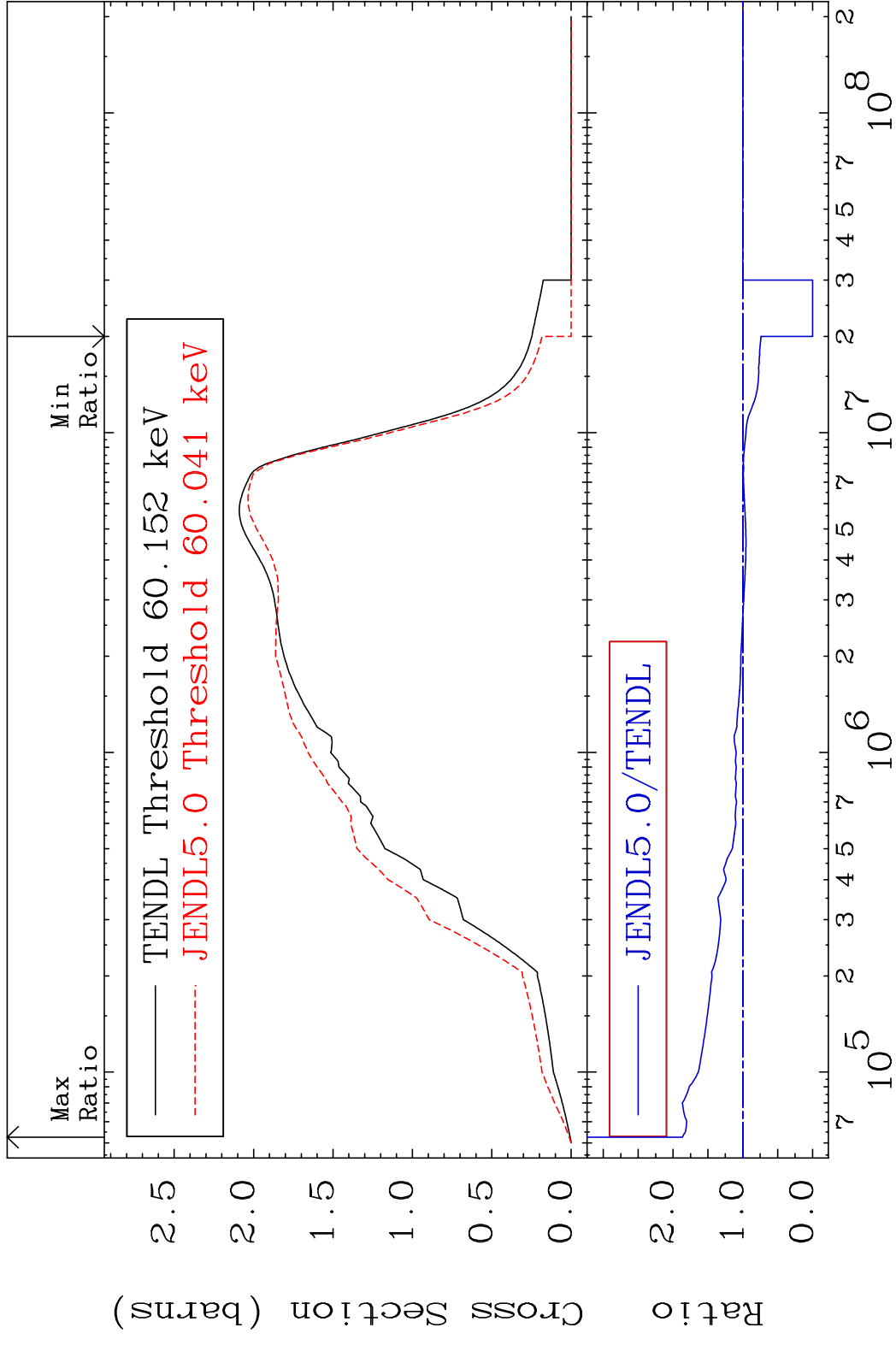


2

Incident Energy (eV)

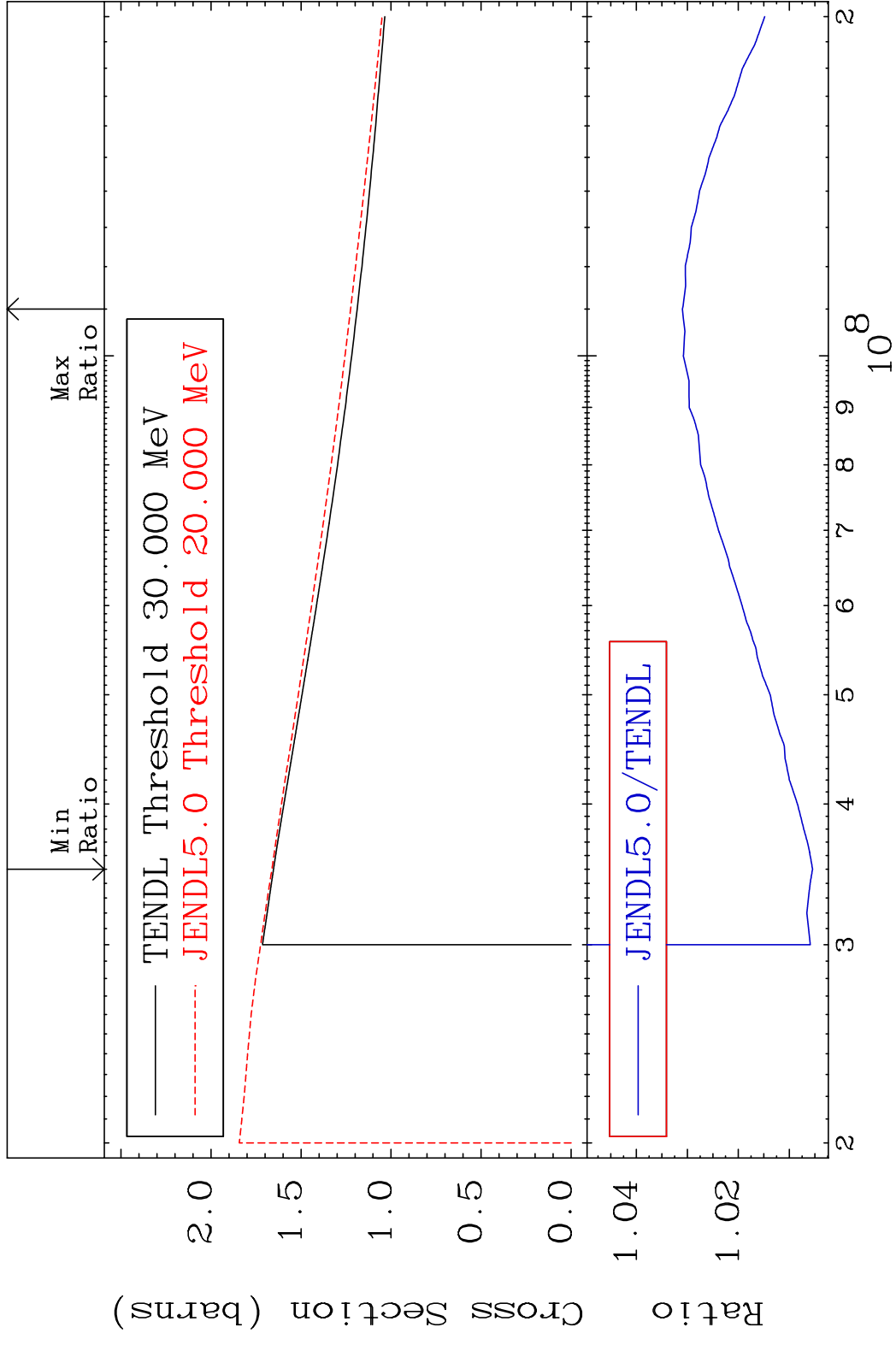
48-Cd-109

MAT 4834 Inelastic 48-Cd-109
 Cross Section -100.0 To 86.66 %



3 Incident Energy (eV) 48-Cd-109

MAT 4834 (n, remainder) 48-Cd-109
 Cross Section 0.545 To 3.098 %



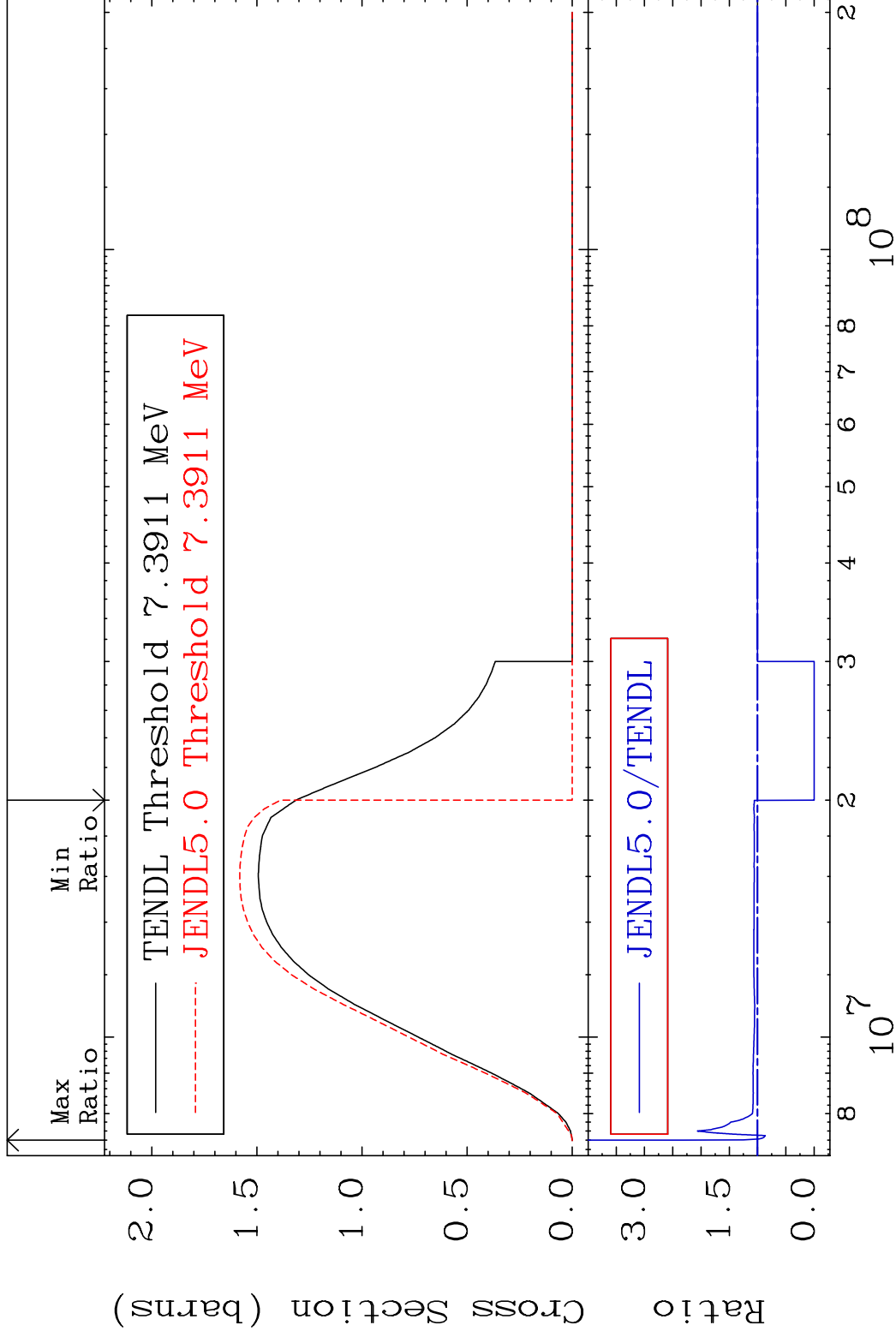
4 Incident Energy (eV) 48-Cd-109

MAT 4834

(n,2n)

48-Cd-109

Cross Section -100.0 To 130.7 %



5

Incident Energy (eV)

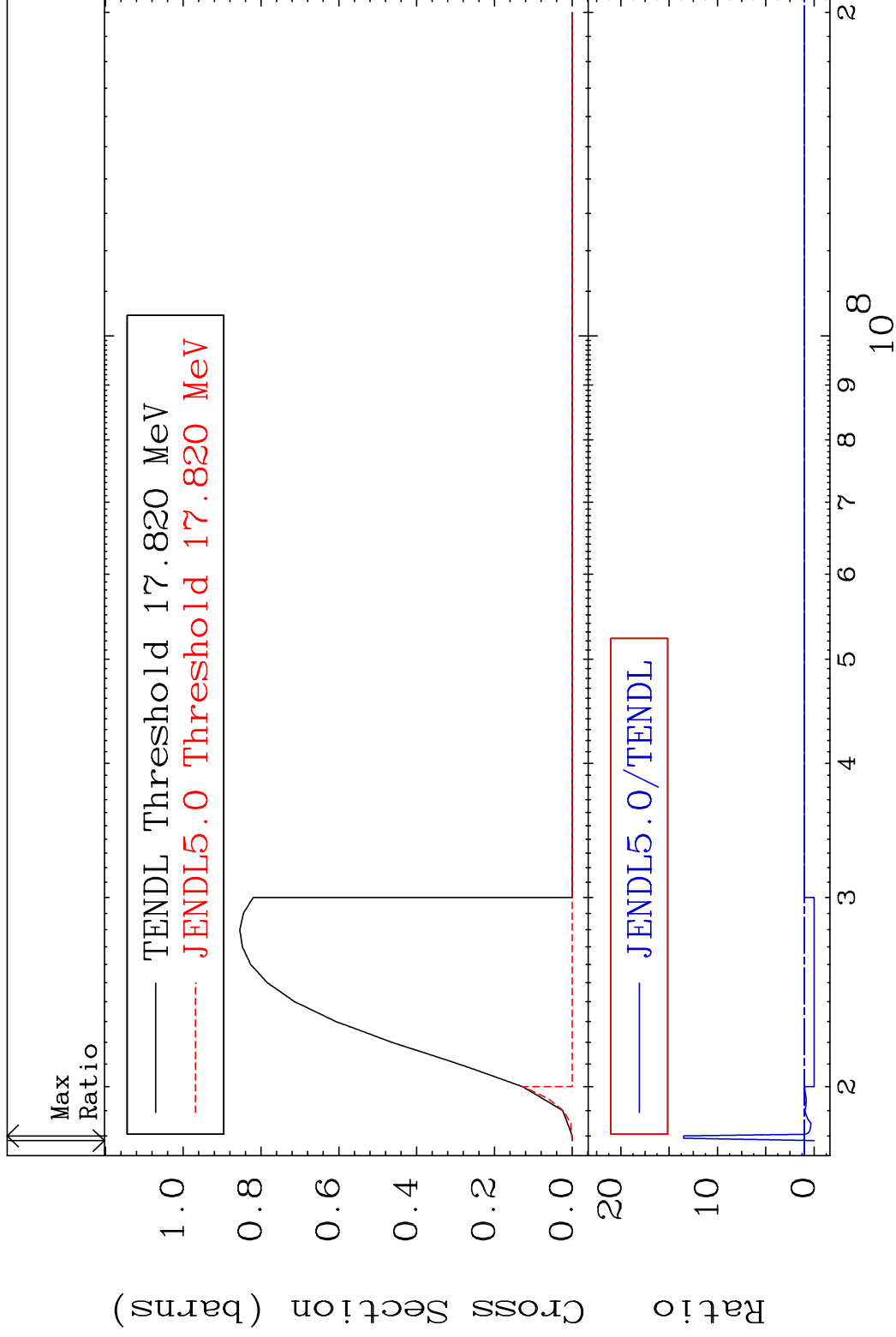
48-Cd-109

MAT 4834

(n,3n)

48-Cd-109

Cross Section -100.0 To 1250. %

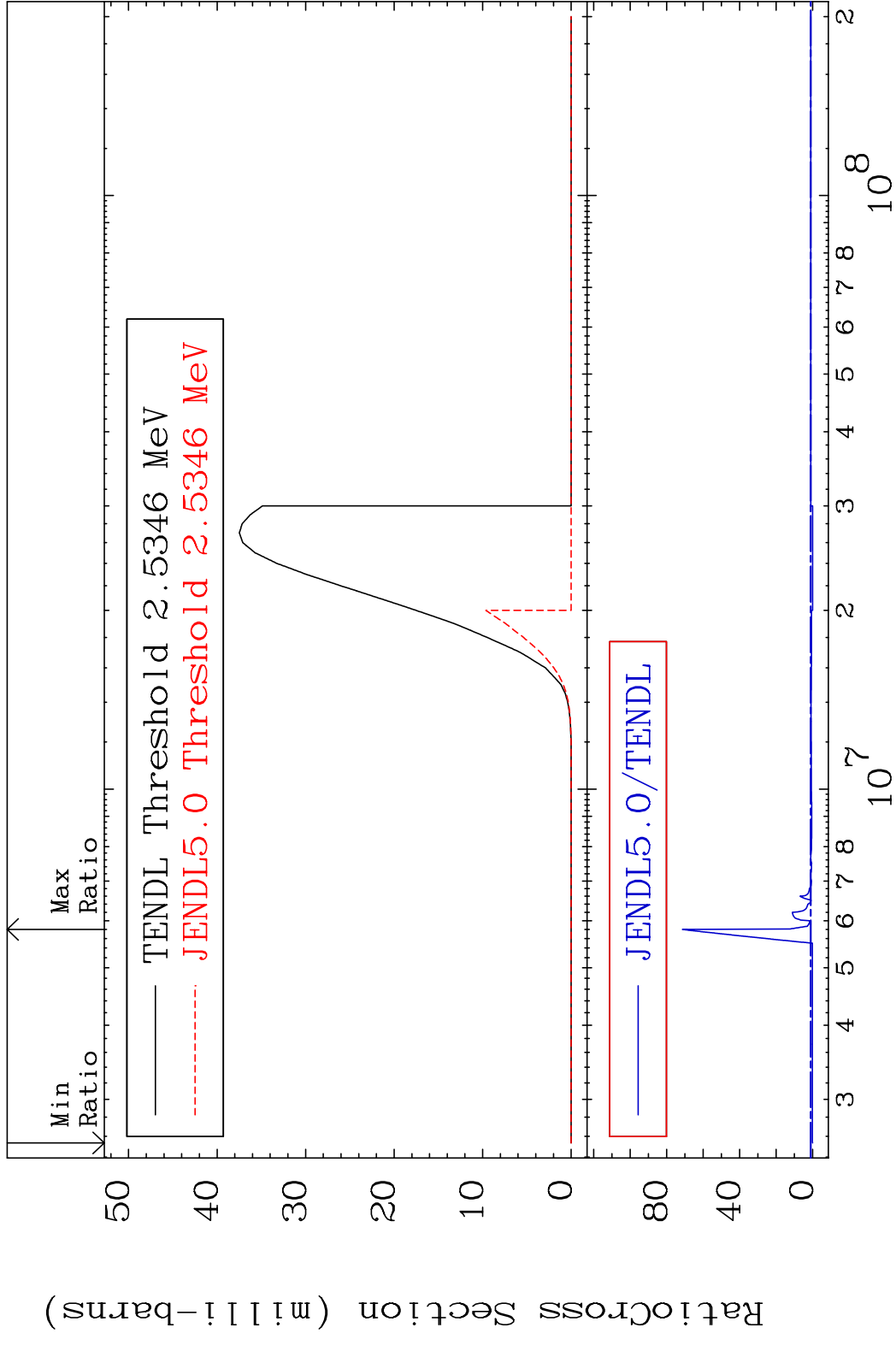


6

Incident Energy (eV)

48-Cd-109

MAT 4834 (n, n') α 48-Cd-109
 Cross Section -100.0 To 7037. %



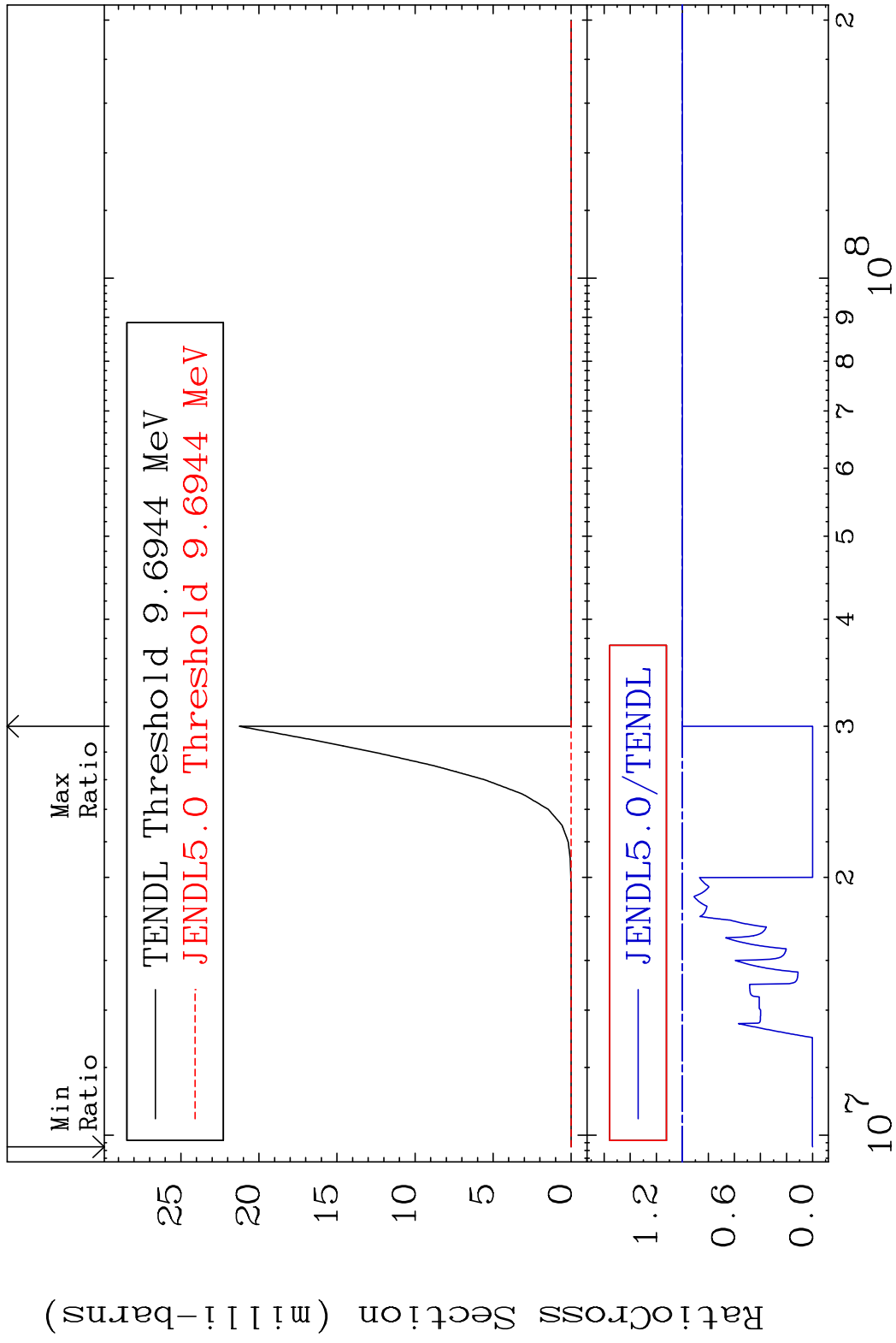
7 48-Cd-109

MAT 4834

(n,2n) α

48-Cd-109

Cross Section -100.0 To 0.000 %



8

Incident Energy (eV)

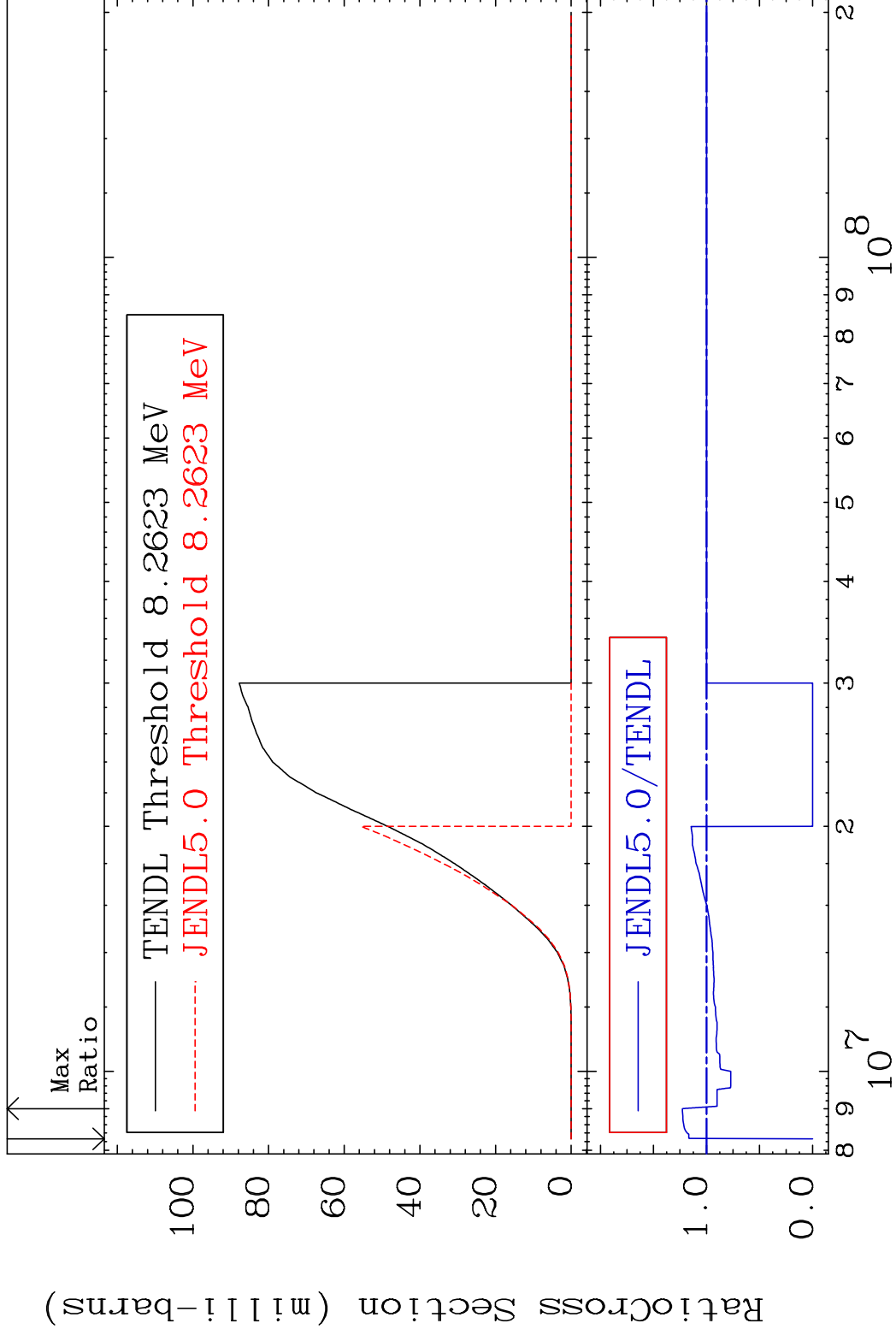
48-Cd-109

MAT 4834

(n, n') p

48-Cd-109

Cross Section -100.0 To 22.75 %

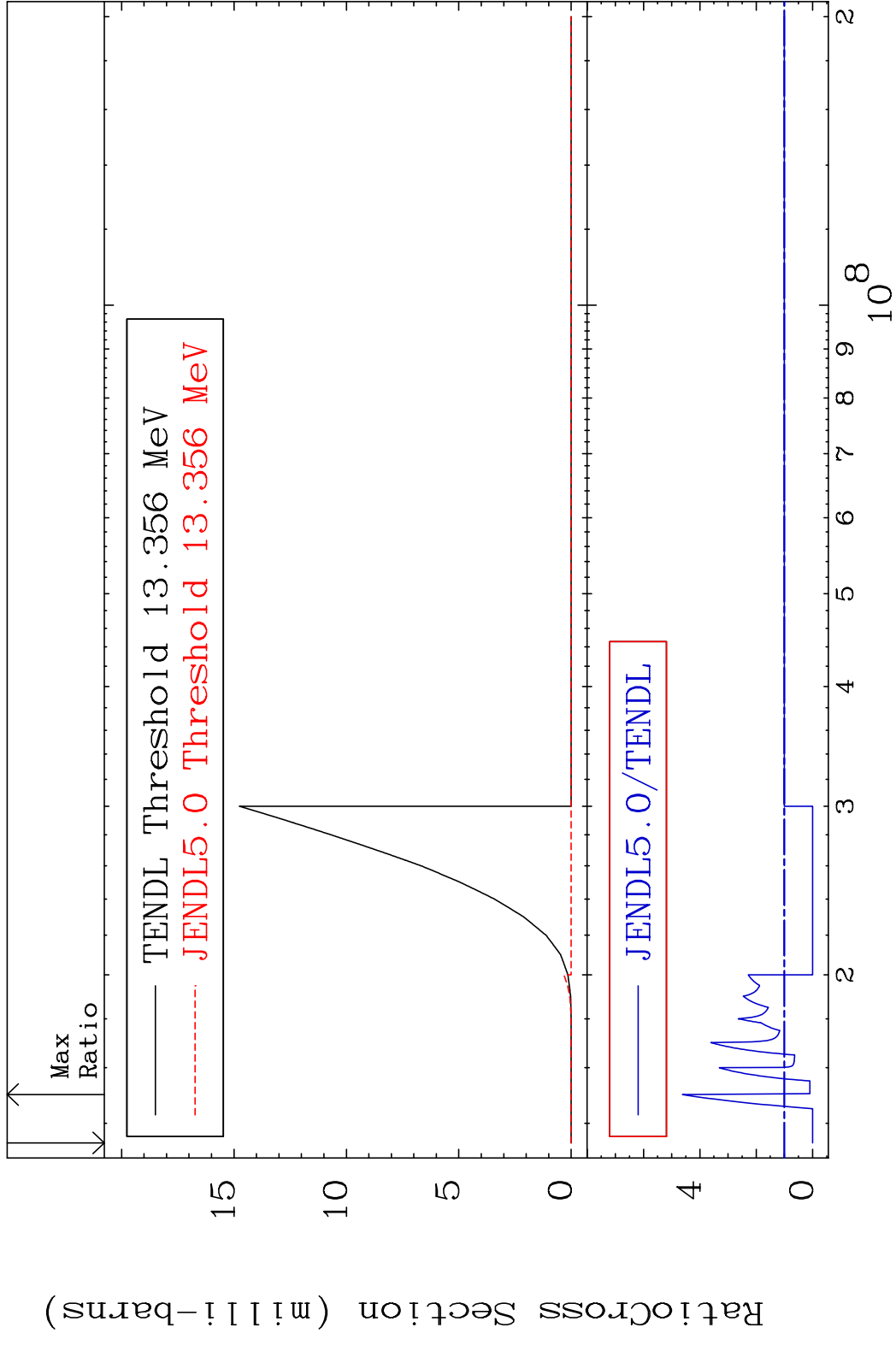


9

Incident Energy (eV)

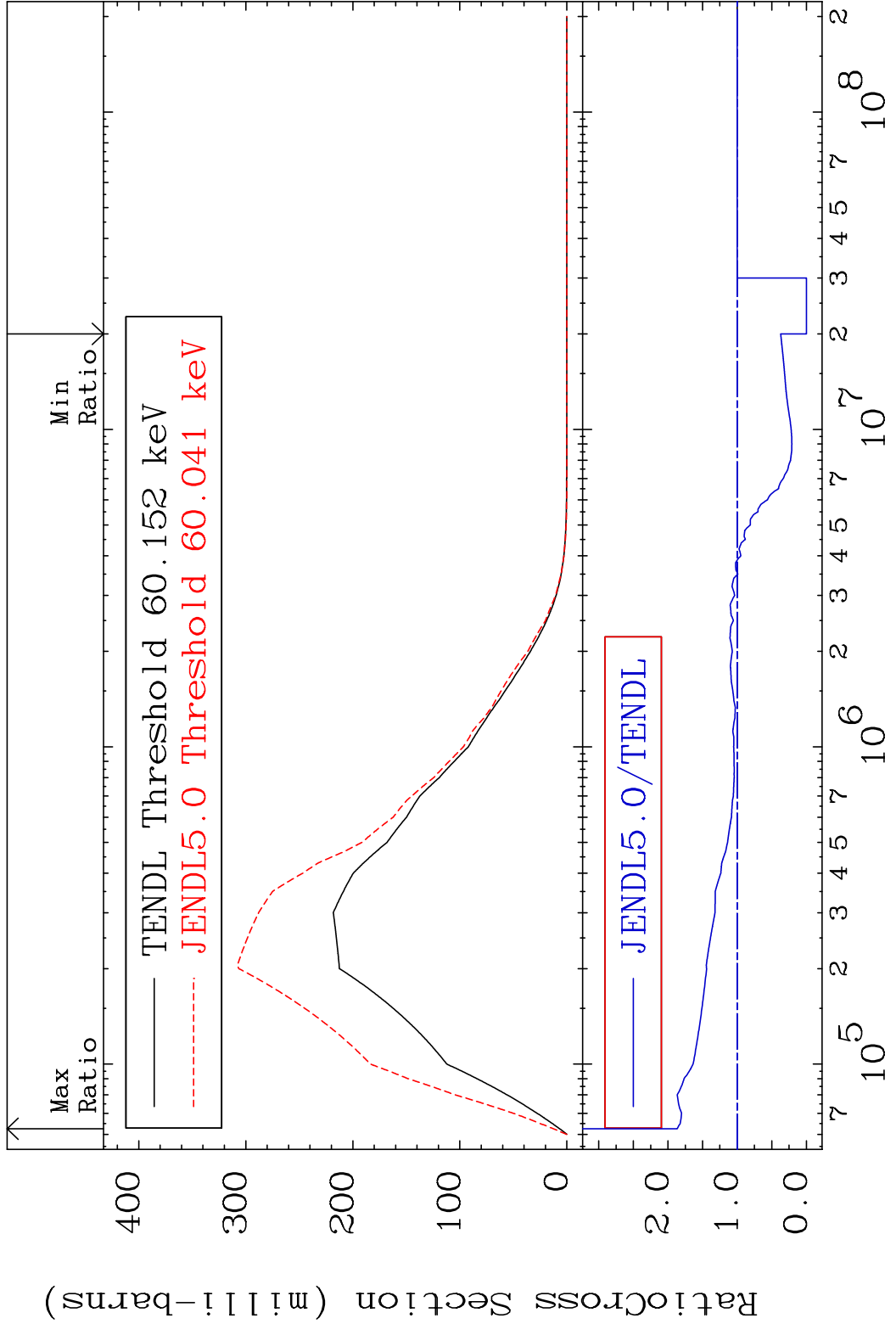
48-Cd-109

MAT 4834 (n, n') d 48-Cd-109
 Cross Section -100.0 To 362.2 %

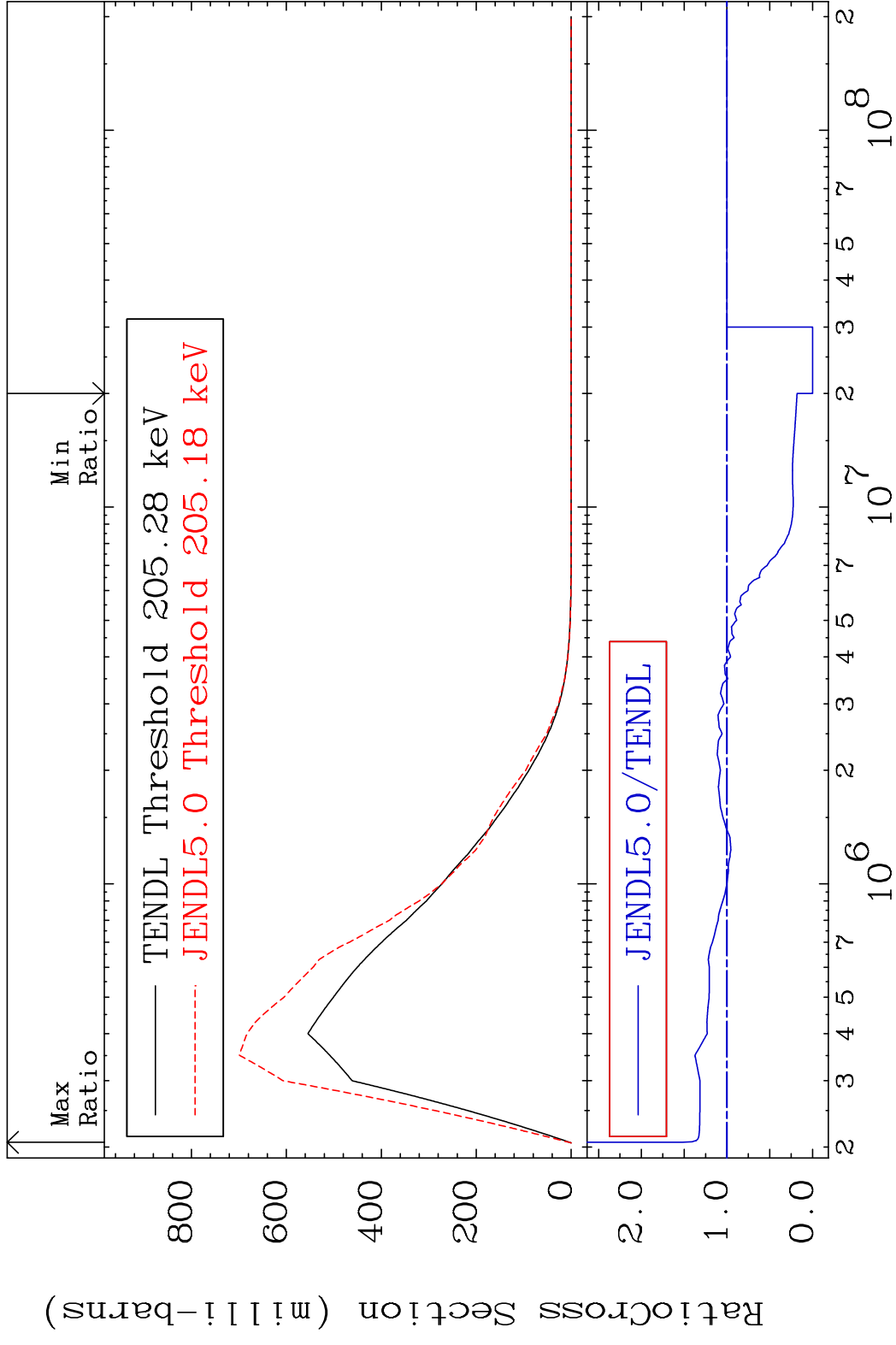


10 Incident Energy (eV) 48-Cd-109

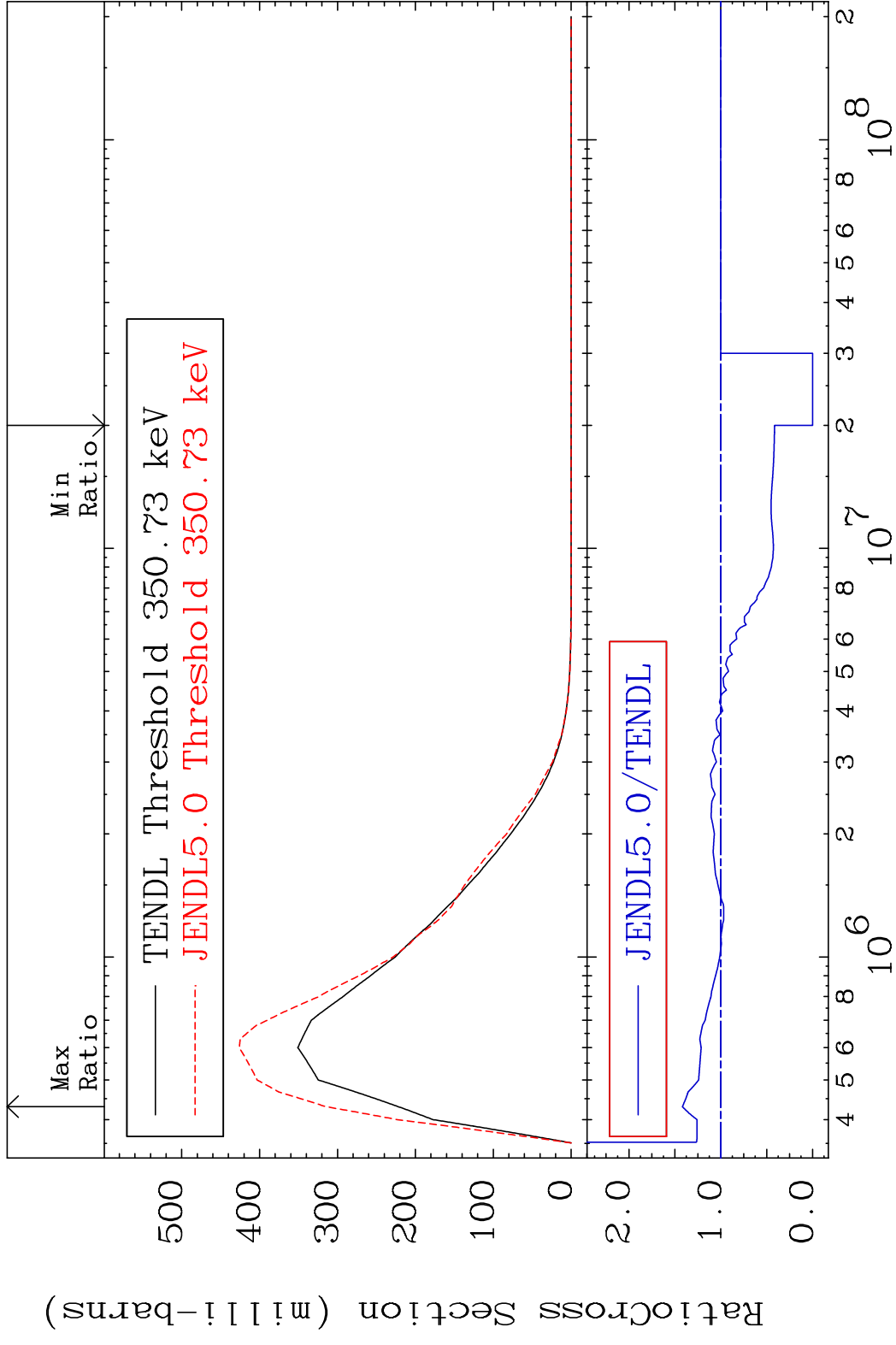
MAT 4834 MT= 51 (n,n') Level 48-Cd-109
 Cross Section -100.0 To 86.66 %



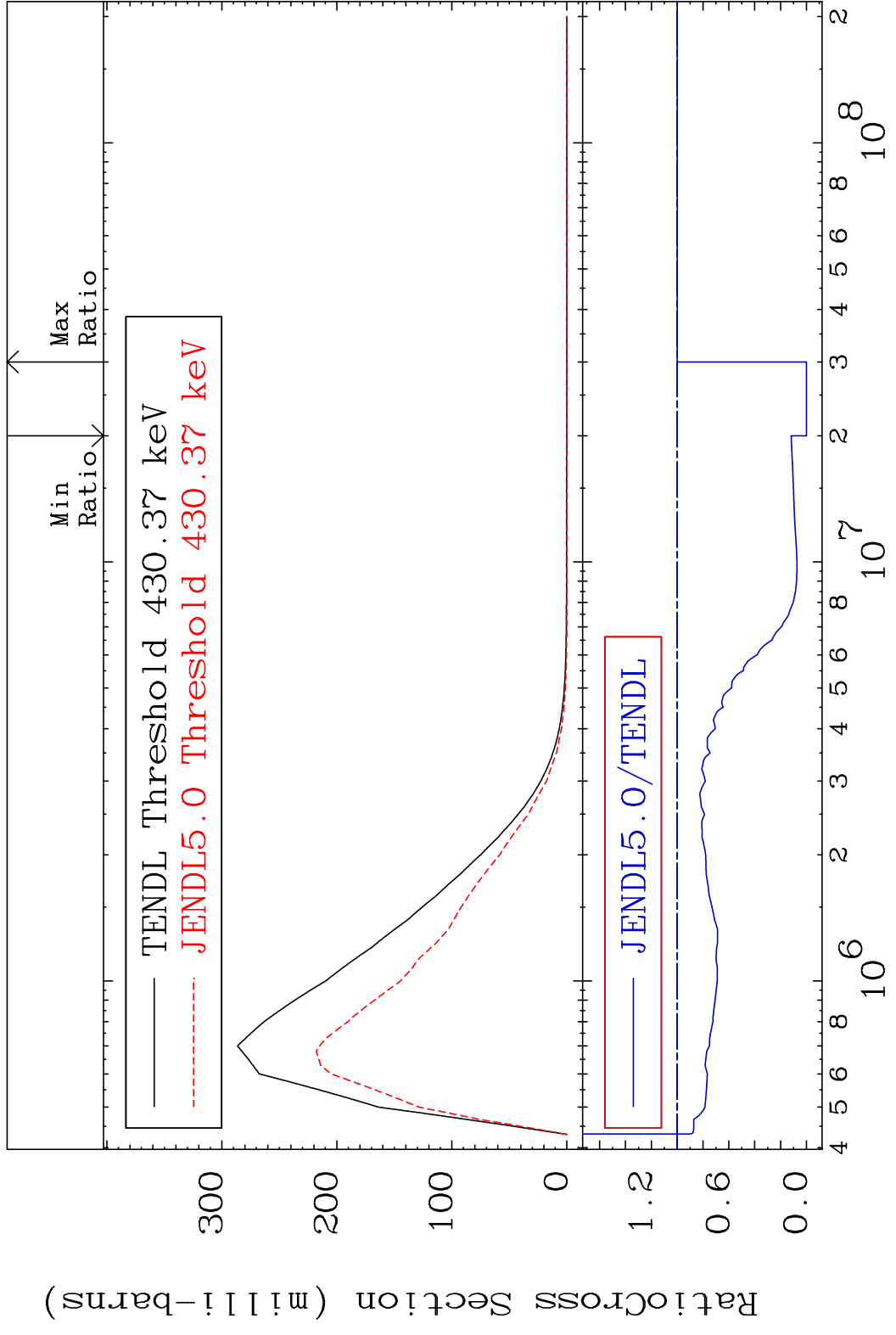
MAT 4834 MT= 52 (n,n') Level 48-Cd-109
 Cross Section -100.0 To 52.12 %



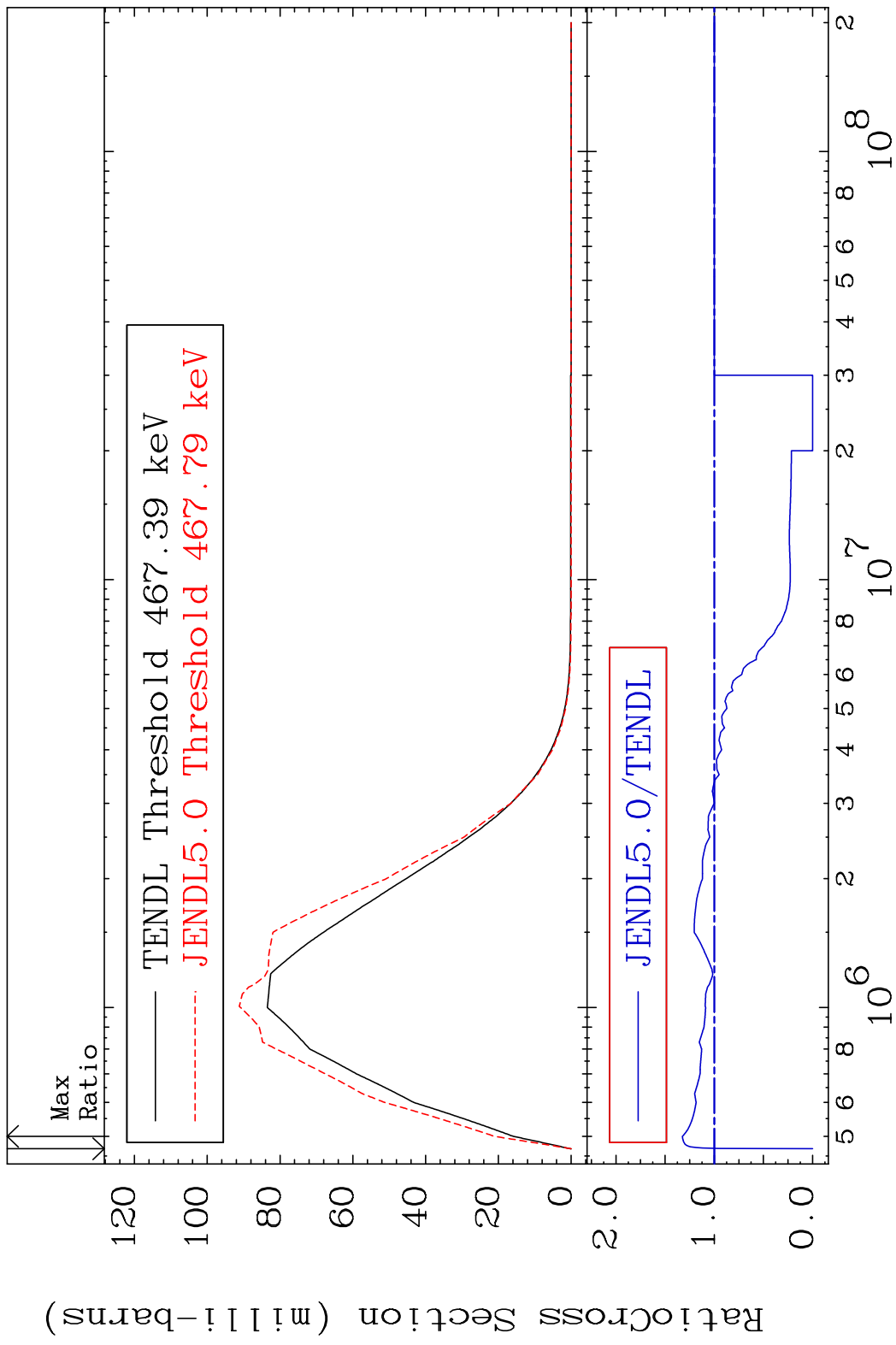
MAT 4834 MT= 53 (n,n') Level 48-Cd-109
 Cross Section -100.0 To 41.86 %



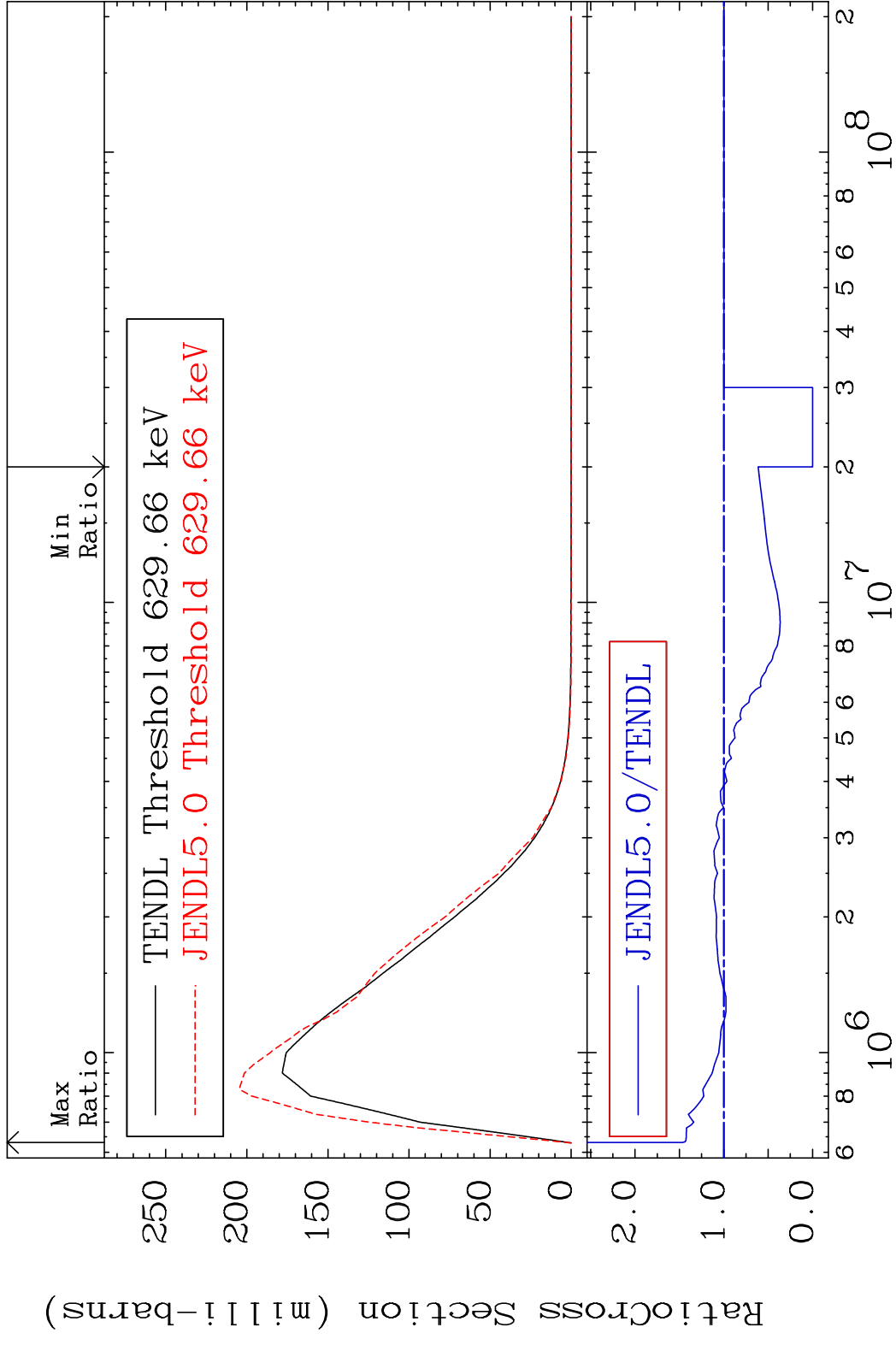
MAT 4834 MT= 54 (n,n') Level 48-Cd-109
 Cross Section -100.0 To 0.000 %



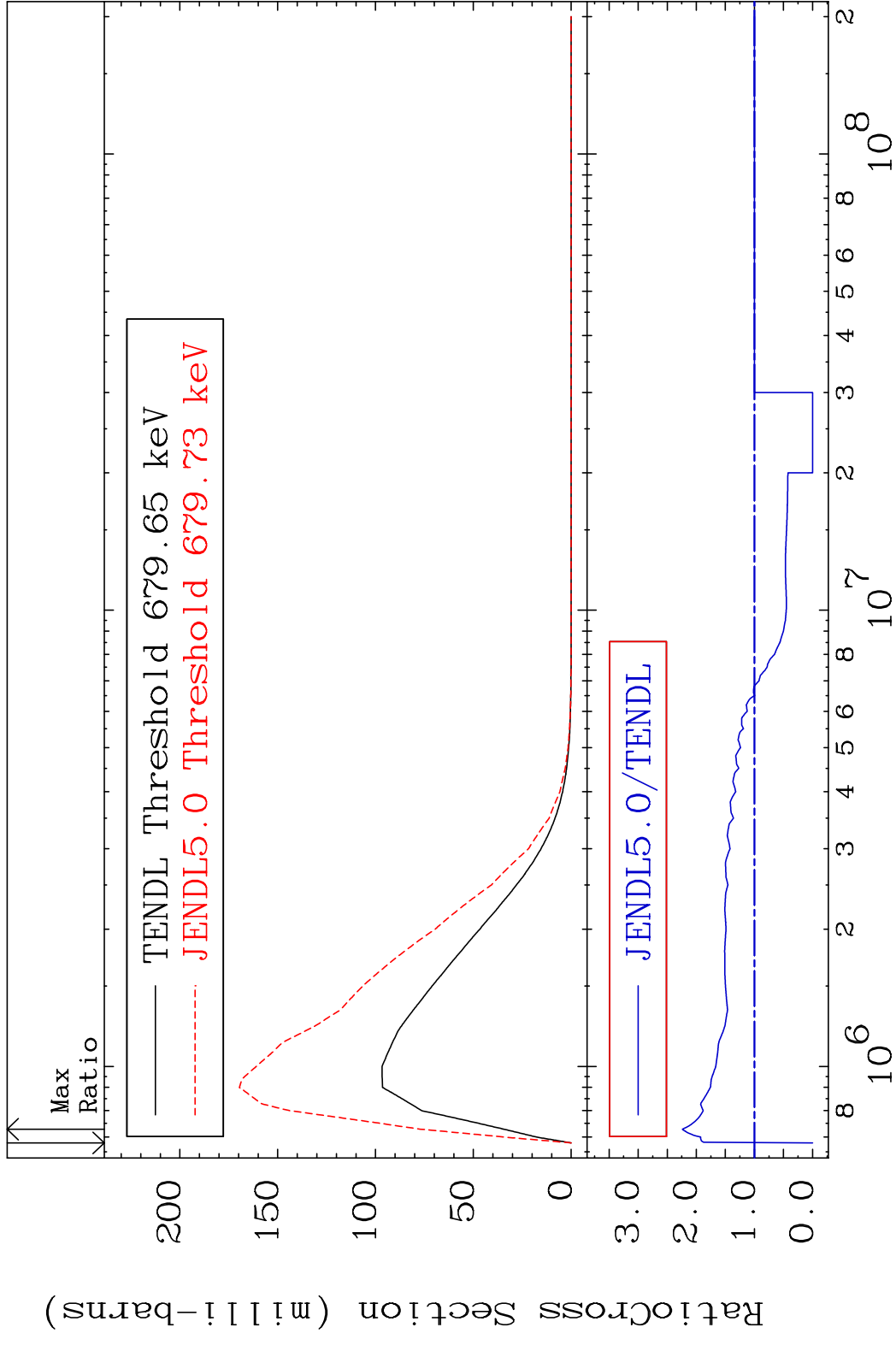
MAT 4834 MT= 55 (n,n') Level 48-Cd-109
 Cross Section -100.0 To 32.46 %



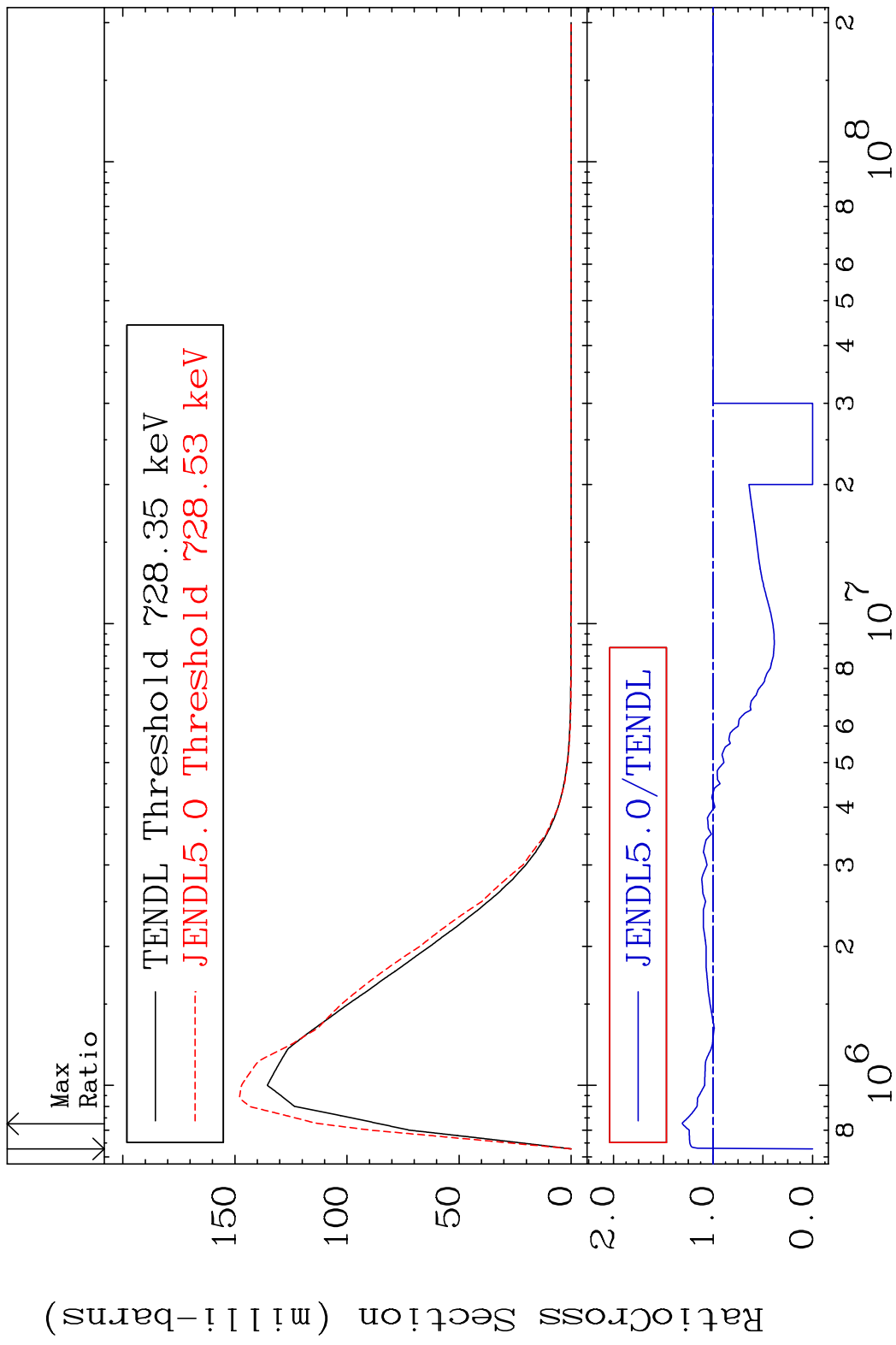
MAT 4834 MT= 56 (n,n') Level 48-Cd-109
 Cross Section -100.0 To 46.66 %



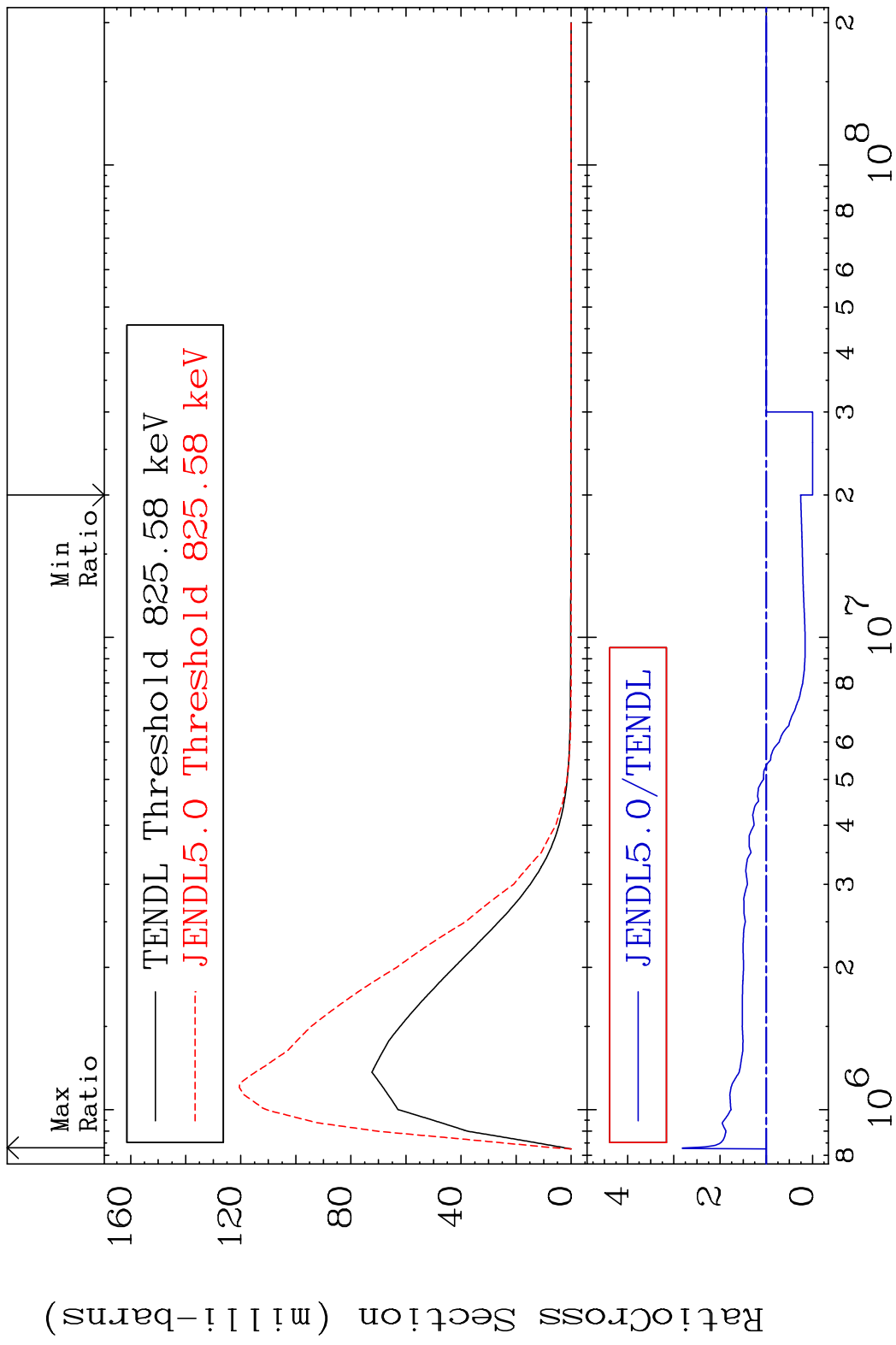
MAT 4834 MT= 57 (n,n') Level 48-Cd-109
 Cross Section -100.0 To 124.0 %



MAT 4834 MT= 58 (n,n') Level 48-Cd-109
 Cross Section -100.0 To 30.90 %

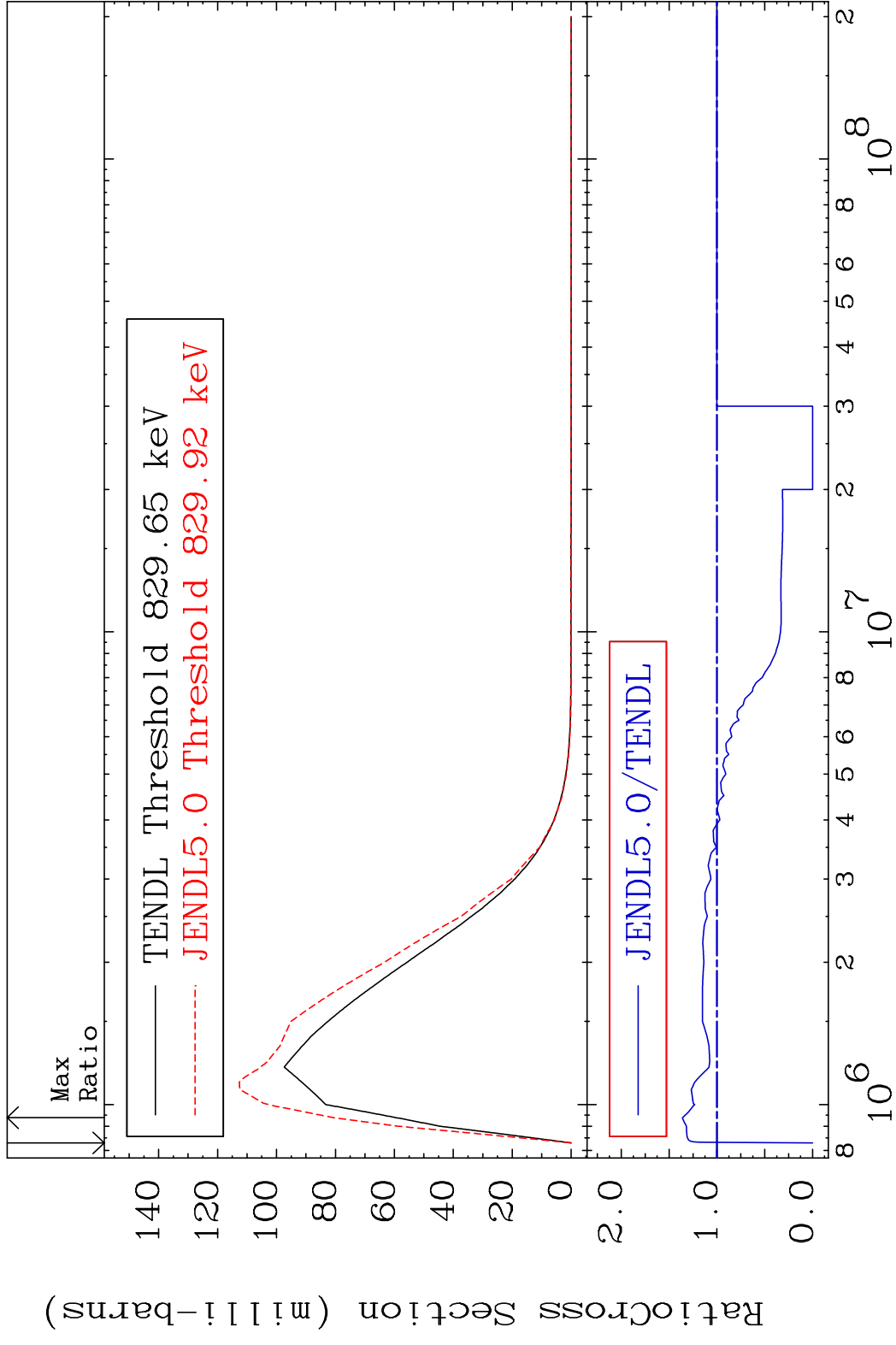


MAT 4834 MT= 59 (n, n') Level 48-Cd-109
 Cross Section -100.0 To 181.6 %

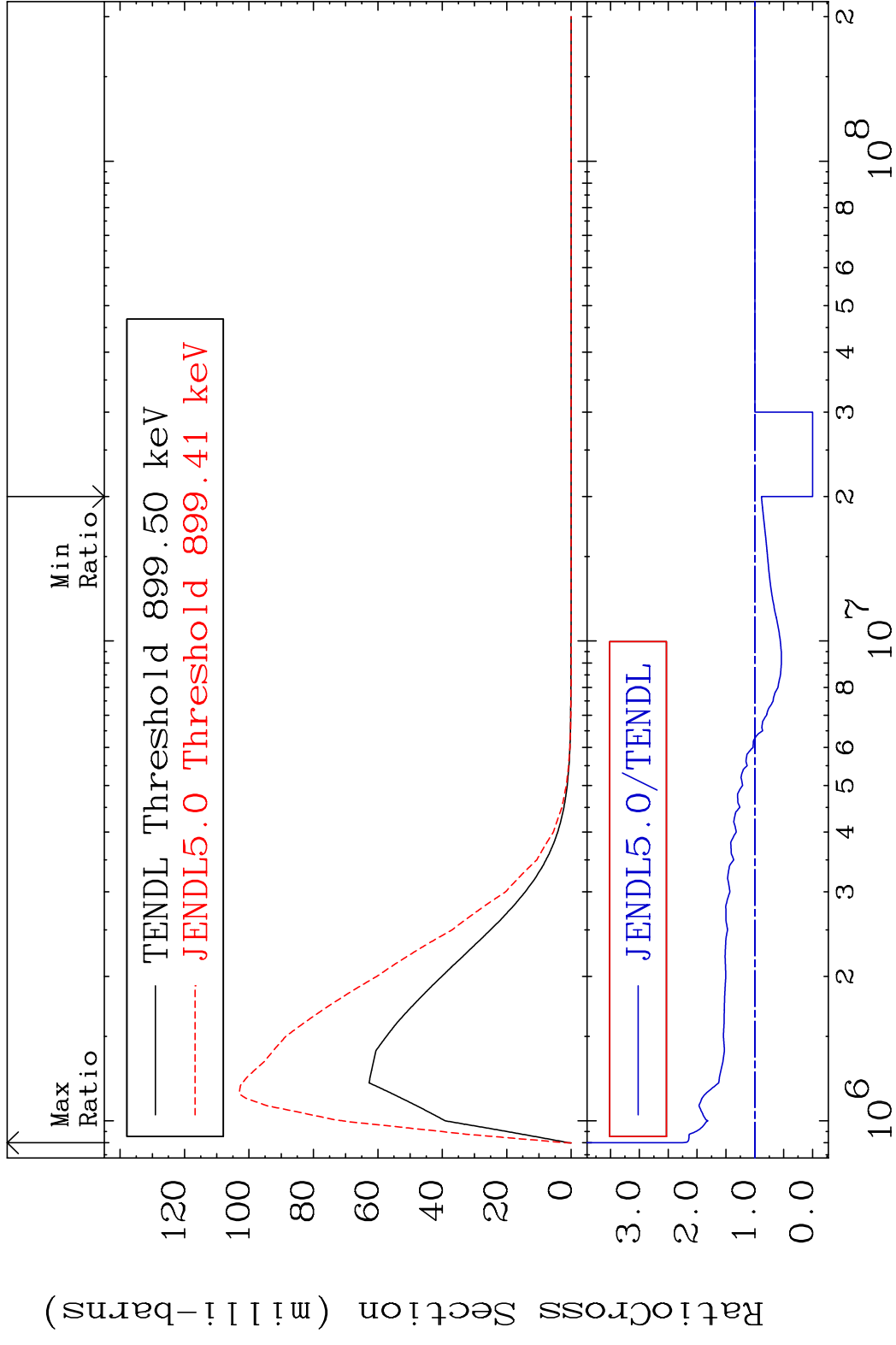


20 Incident Energy (eV) 48-Cd-109

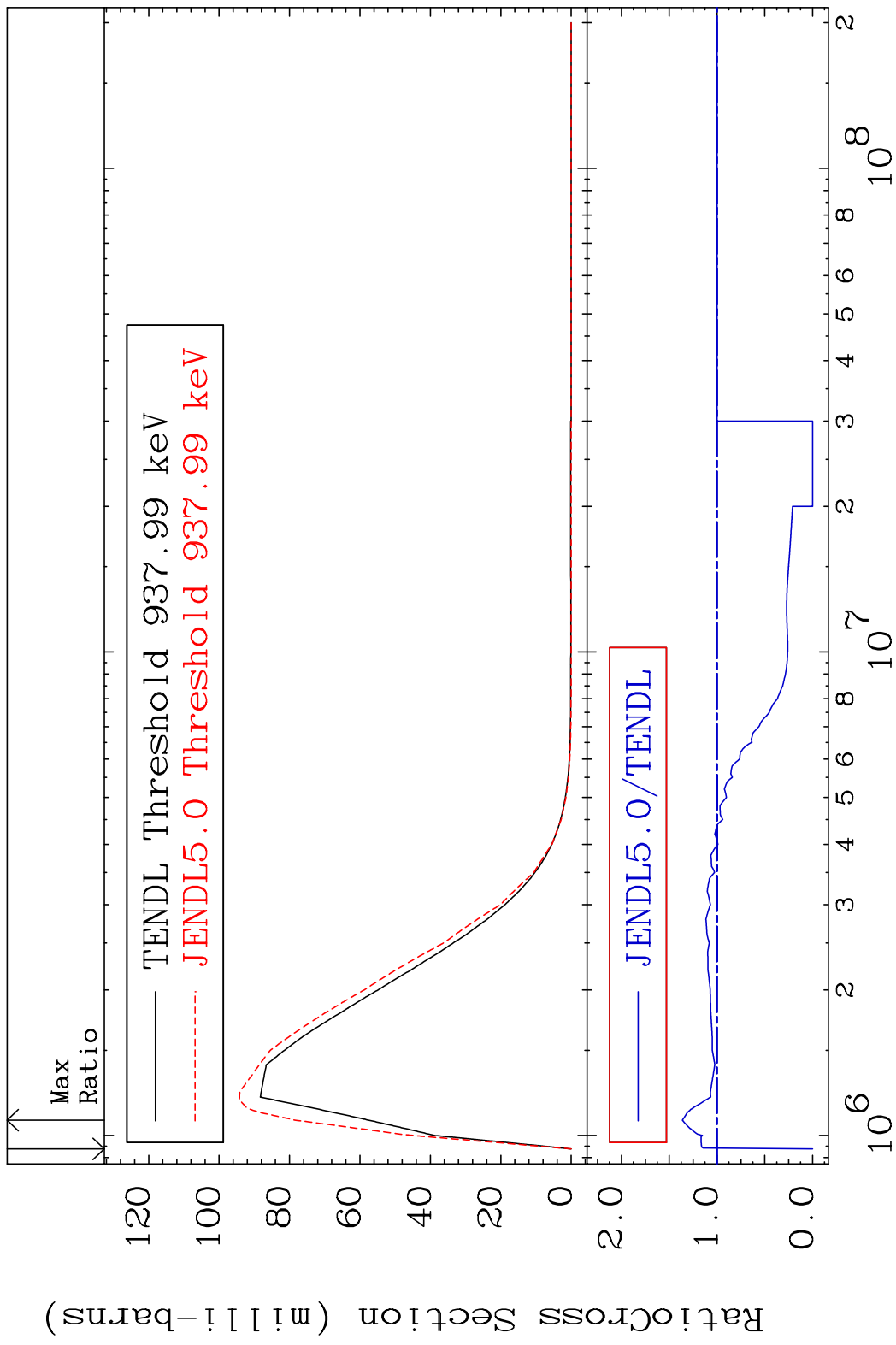
MAT 4834 MT= 60 (n,n') Level 48-Cd-109
 Cross Section -100.0 To 36.16 %



MAT 4834 MT= 61 (n, n') Level 48-Cd-109
 Cross Section -100.0 To 125.5 %

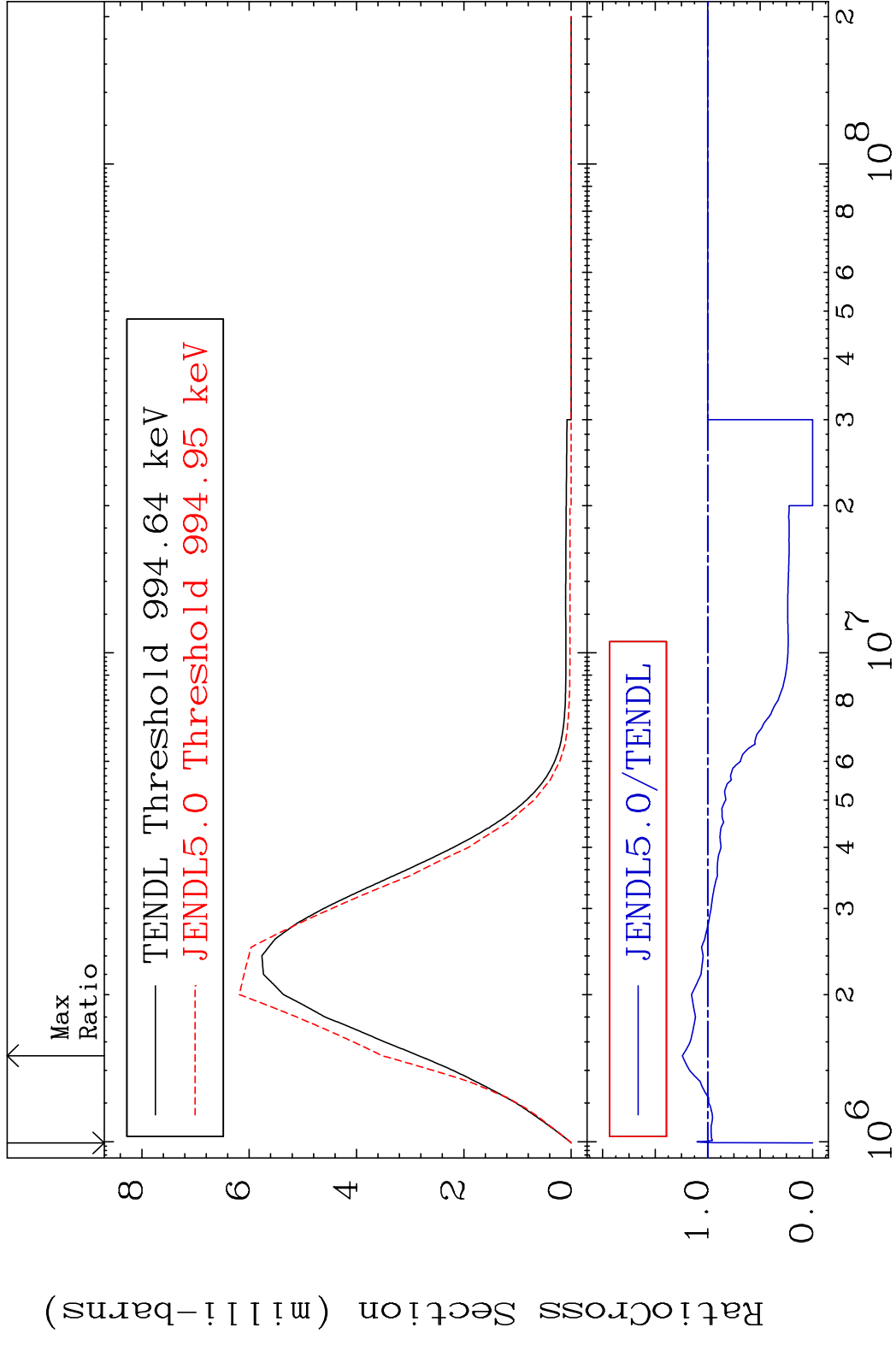


MAT 4834 MT= 62 (n,n') Level 48-Cd-109
 Cross Section -100.0 To 36.26 %



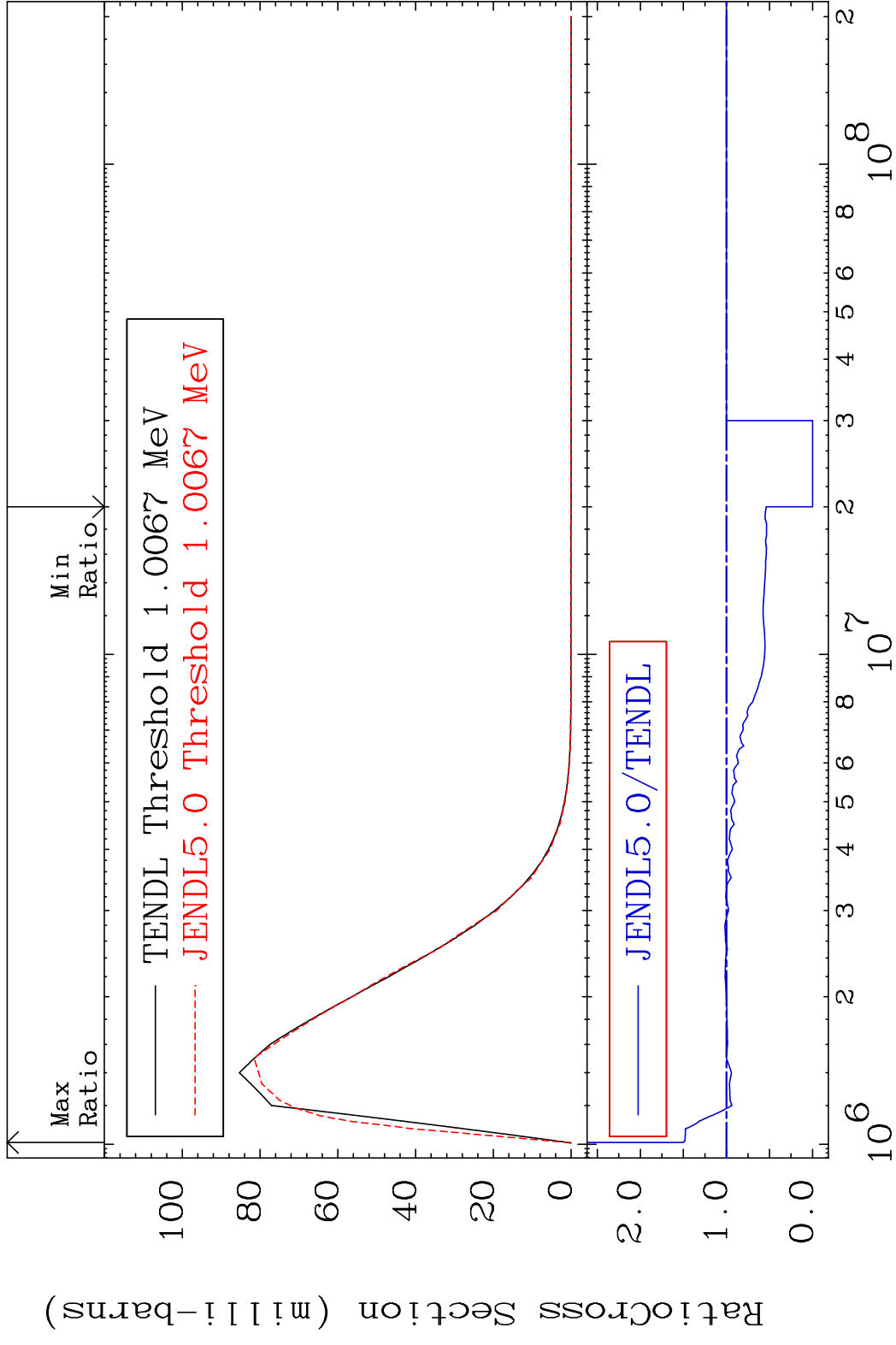
23 Incident Energy (eV) 48-Cd-109

MAT 4834 MT= 63 (n,n') Level 48-Cd-109
 Cross Section -100.0 To 24.08 %



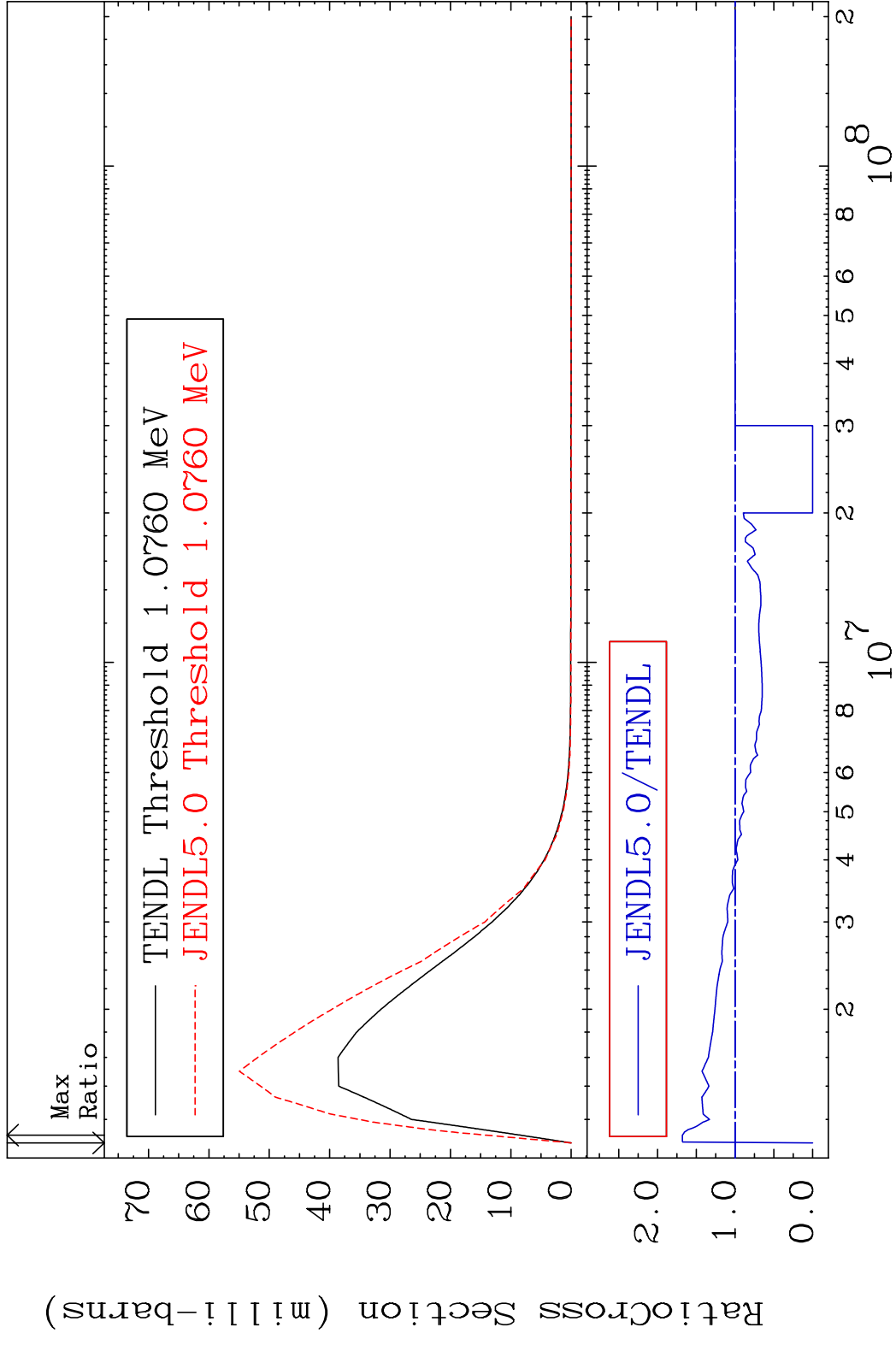
24 Incident Energy (eV) 48-Cd-109

MAT 4834 MT= 64 (n, n') Level 48-Cd-109
 Cross Section -100.0 To 51.23 %

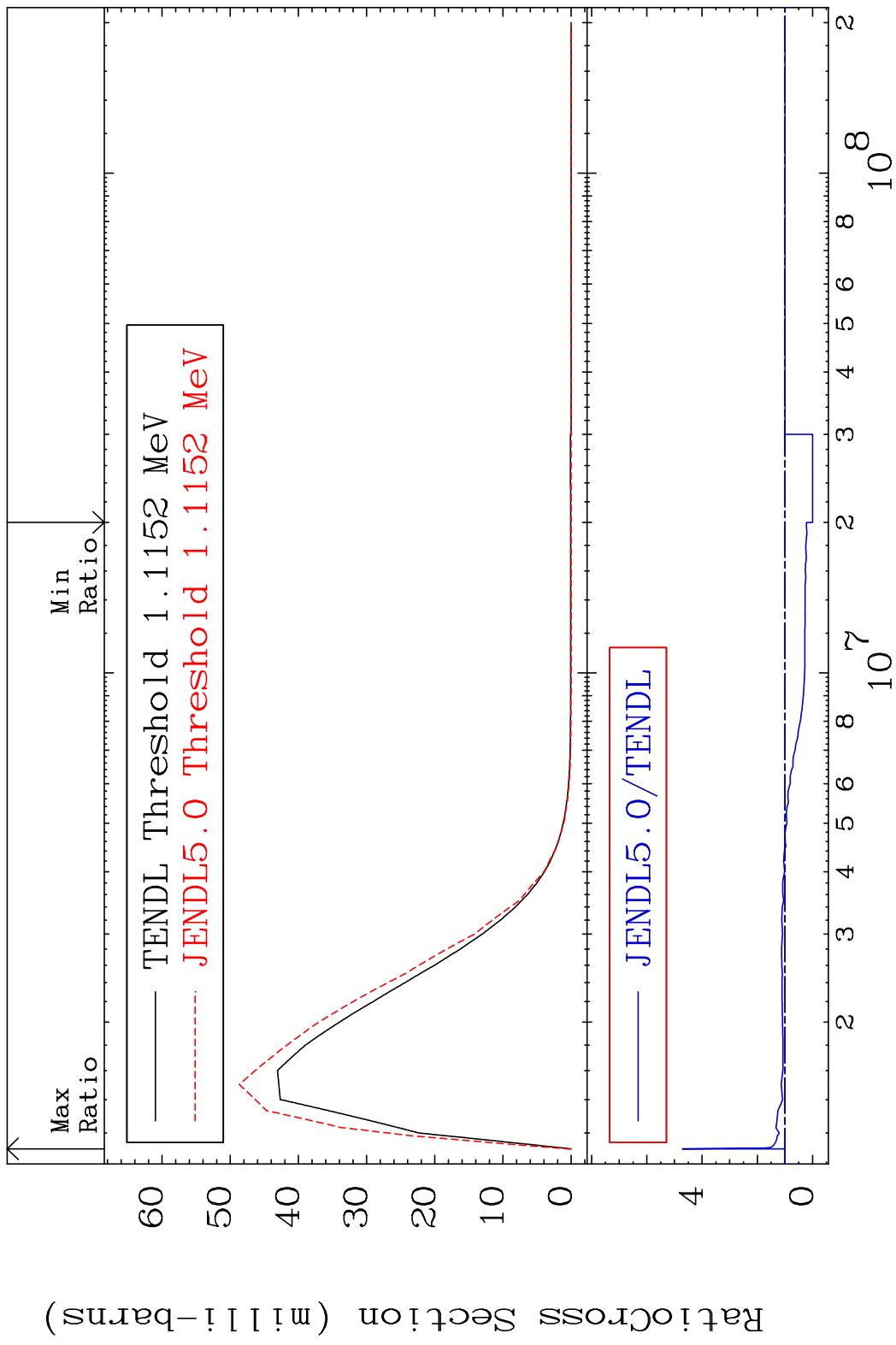


25 48-Cd-109

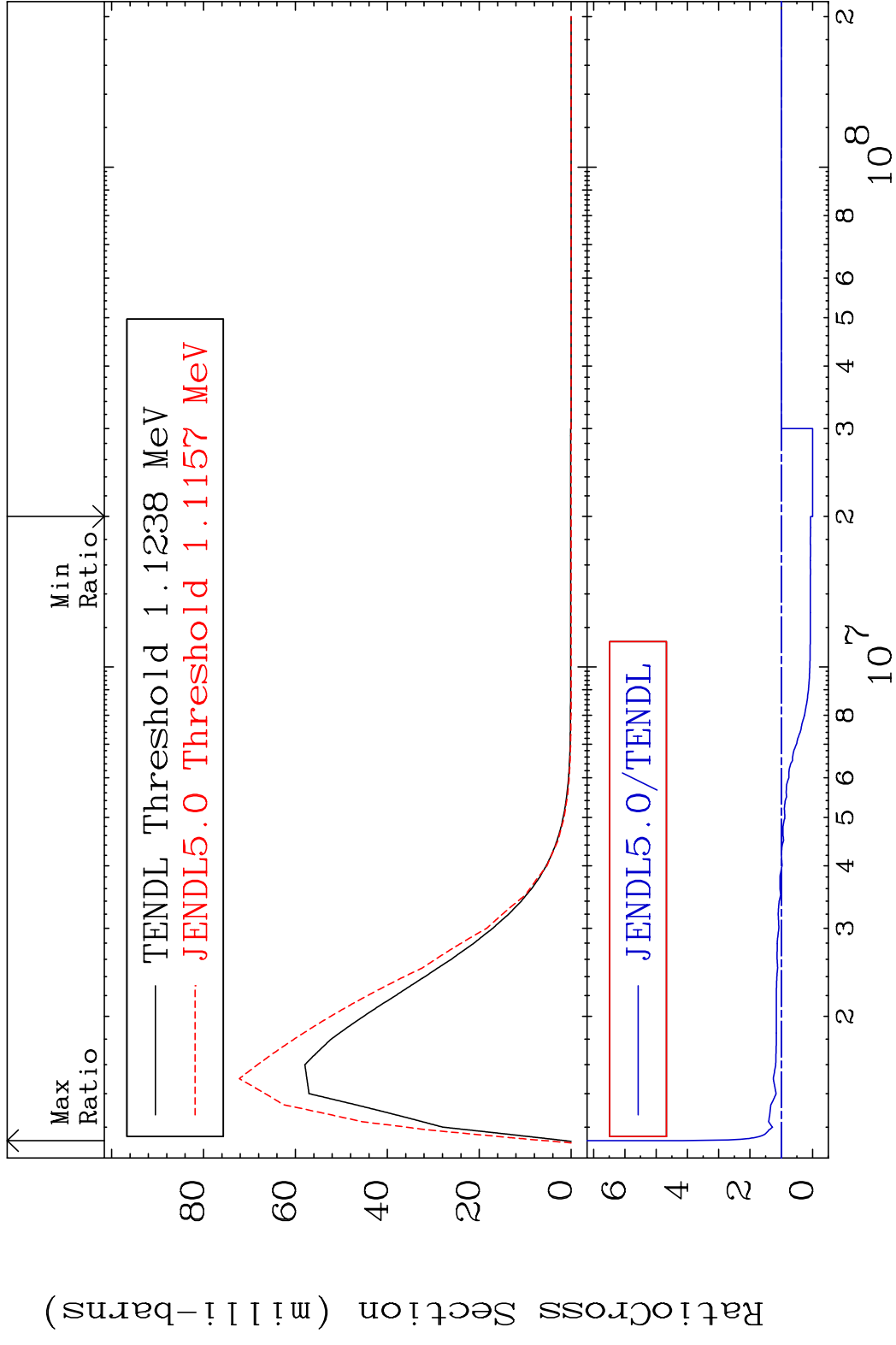
MAT 4834 MT= 65 (n,n') Level 48-Cd-109
 Cross Section -100.0 To 67.91 %



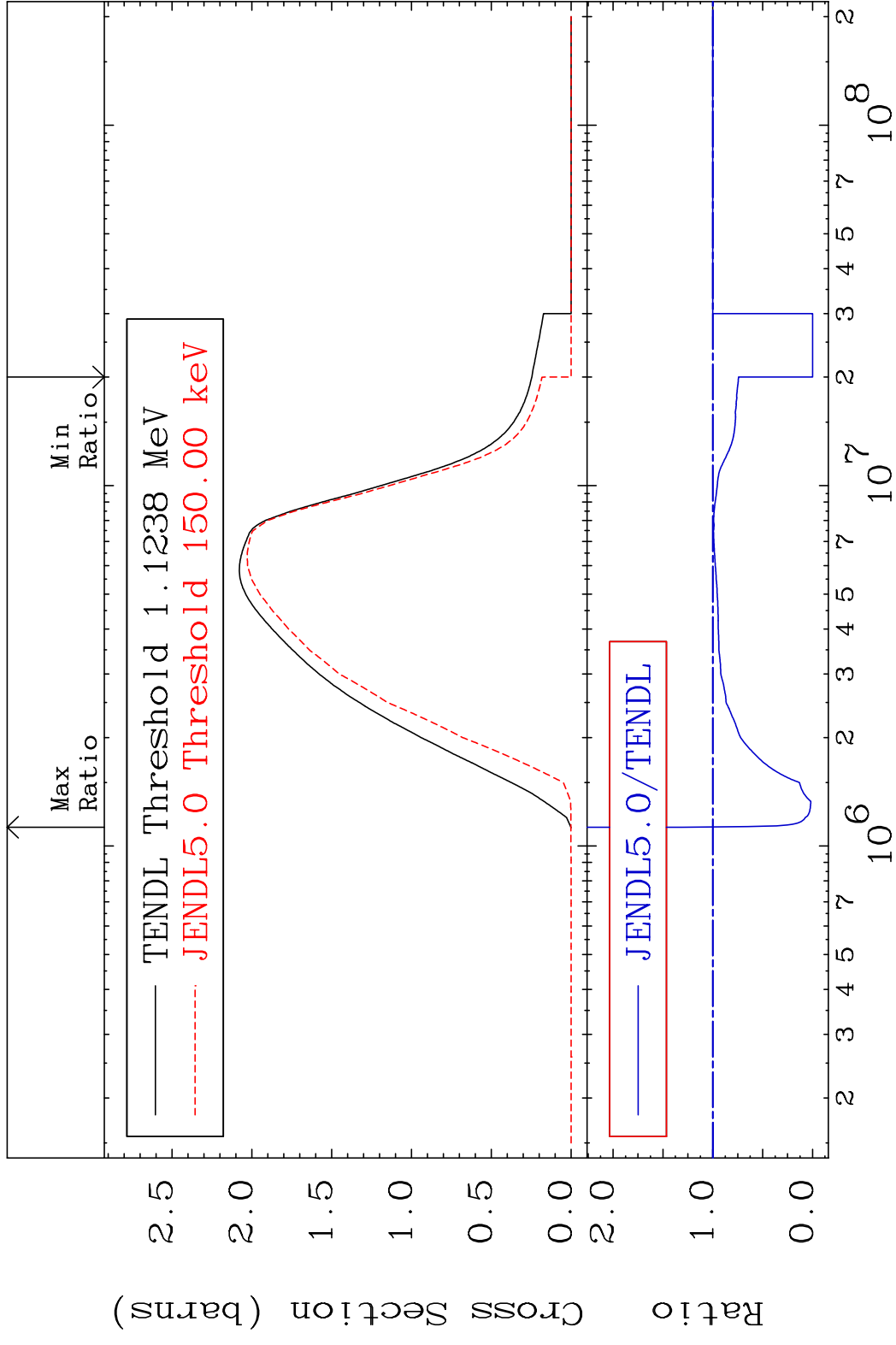
MAT 4834 MT= 66 (n, n') Level 48-Cd-109
 Cross Section -100.0 To 371.4 %



MAT 4834 MT= 67 (n, n') Level 48-Cd-109
 Cross Section -100.0 To 316.2 %



MAT 4834 (n,n') Continuum 48-Cd-109
 Cross Section -100.0 To 30.55 %

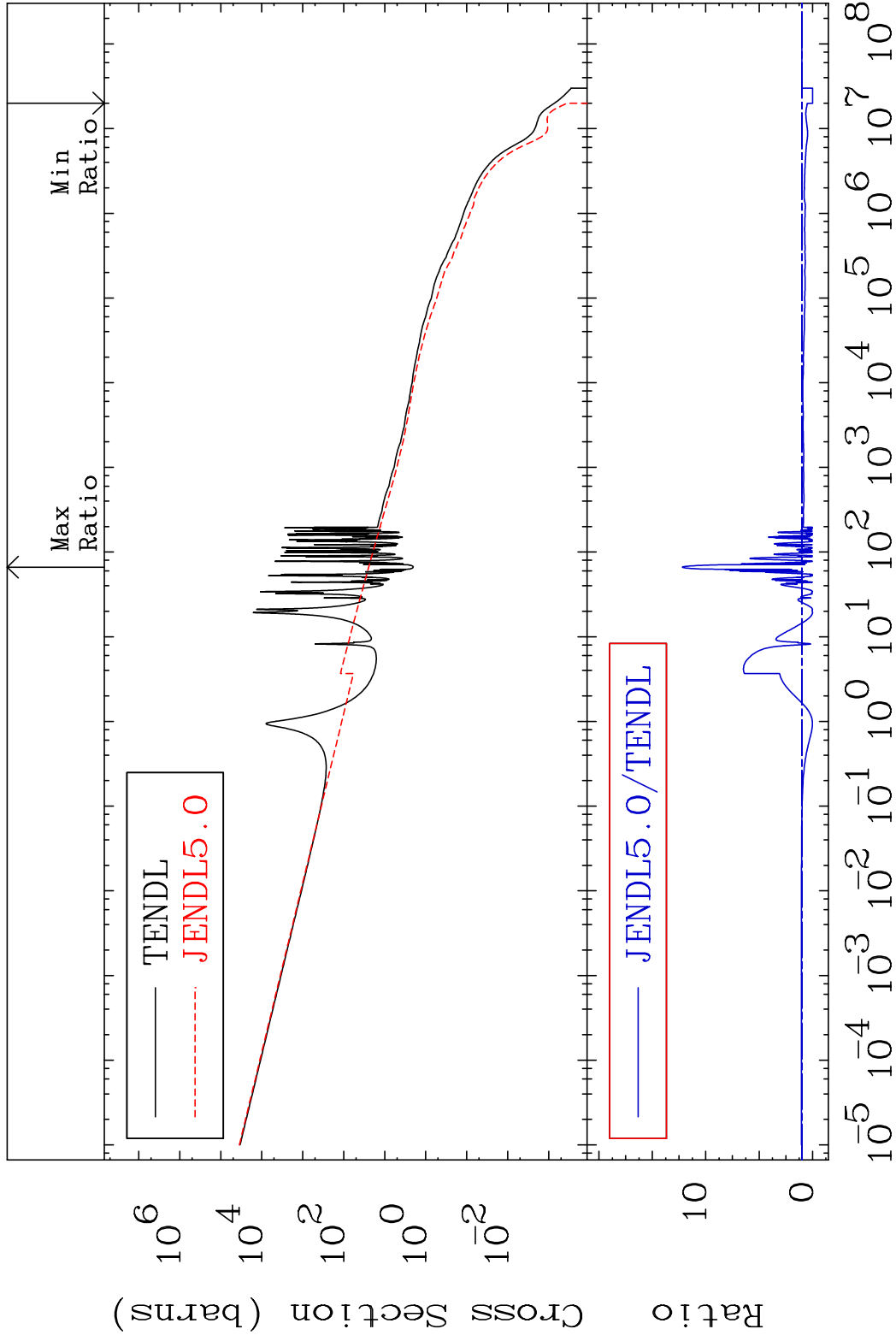


MAT 4834

(n, γ)

48-Cd-109

Cross Section -100.0 To 1119. %



30

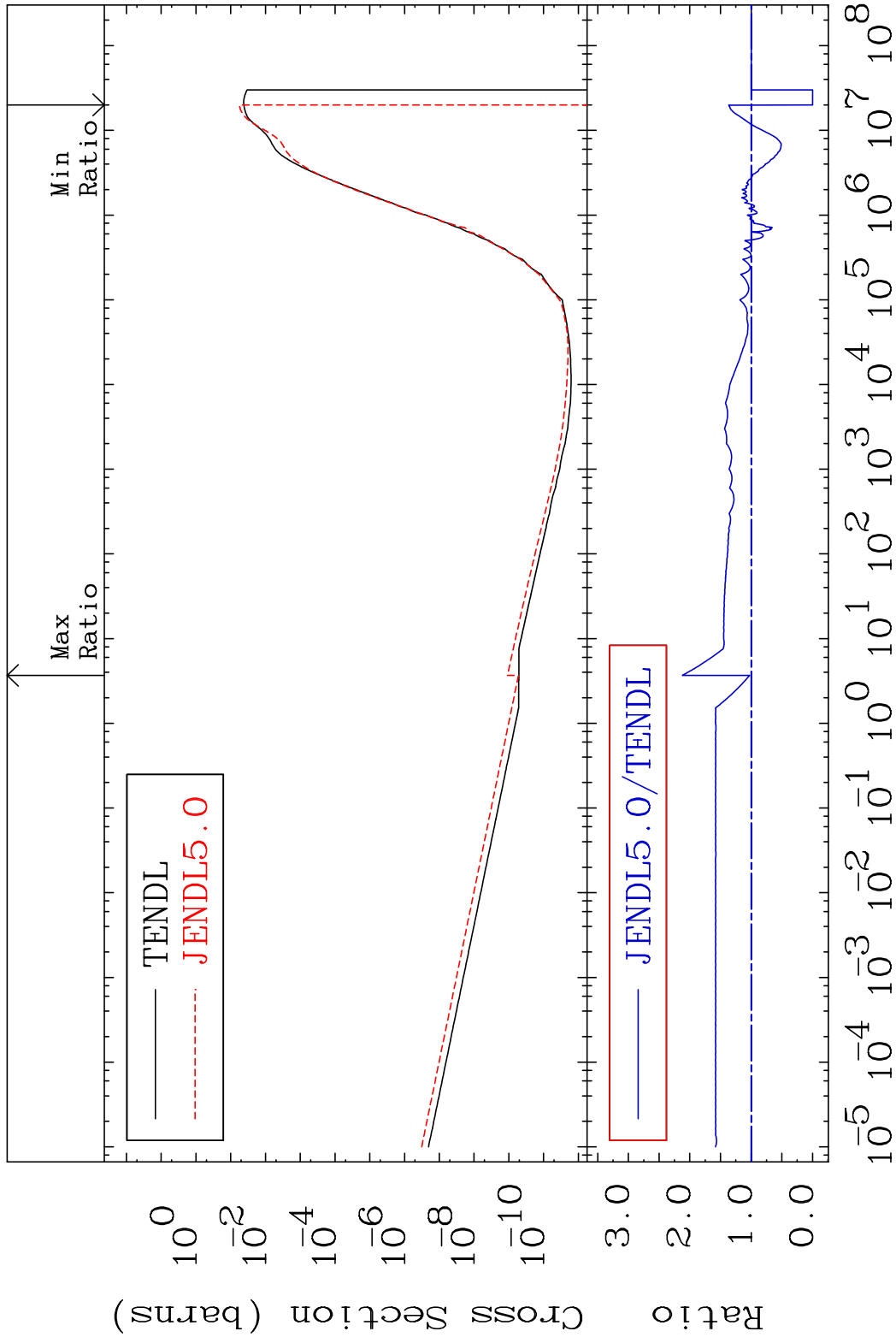
48-Cd-109

MAT 4834

(n, p)

48-Cd-109

Cross Section -100.0 To 112.1 %

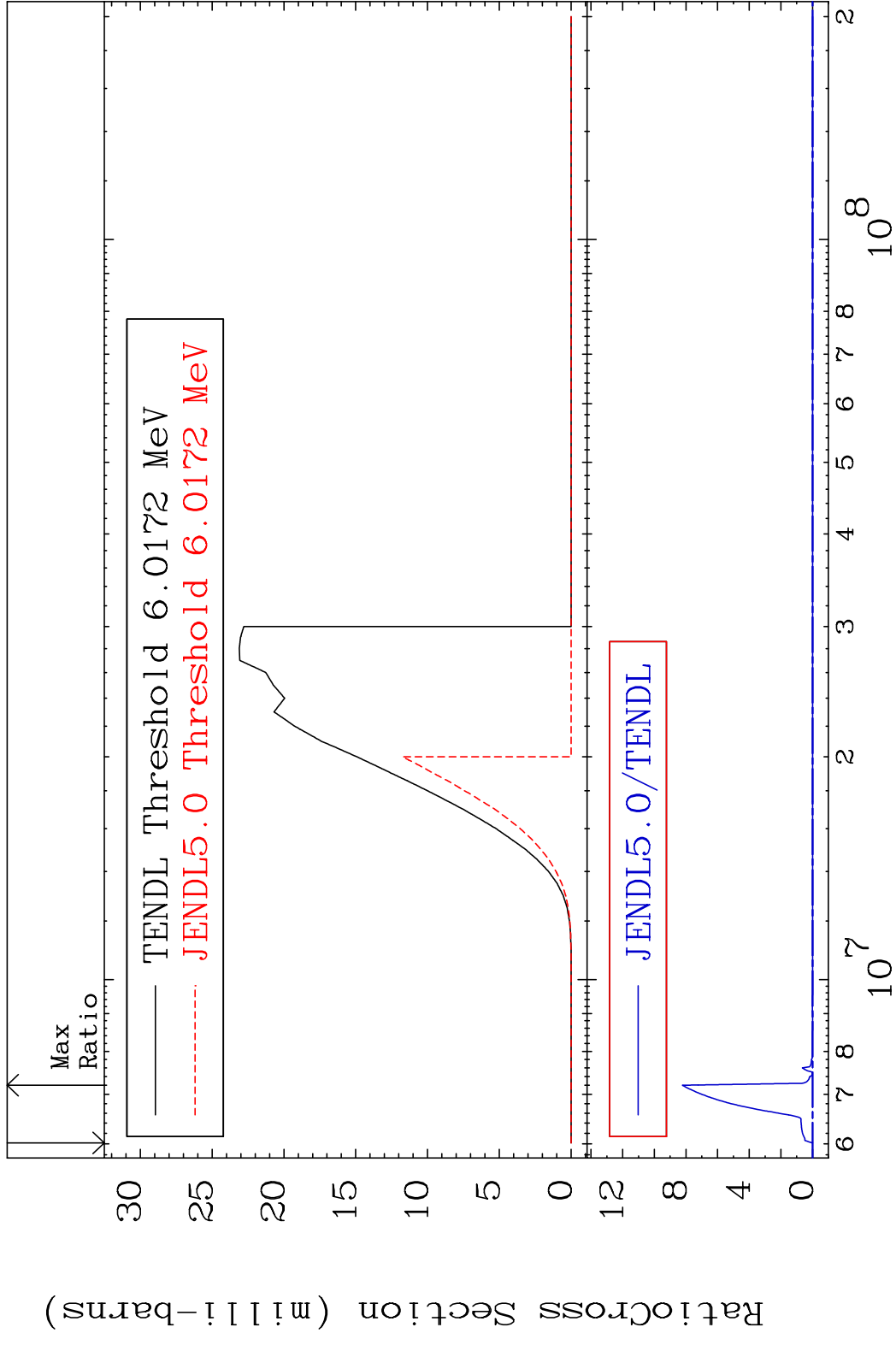


31

Incident Energy (eV)

48-Cd-109

MAT 4834 (n,d) 48-Cd-109
 Cross Section -100.0 To 9999. %

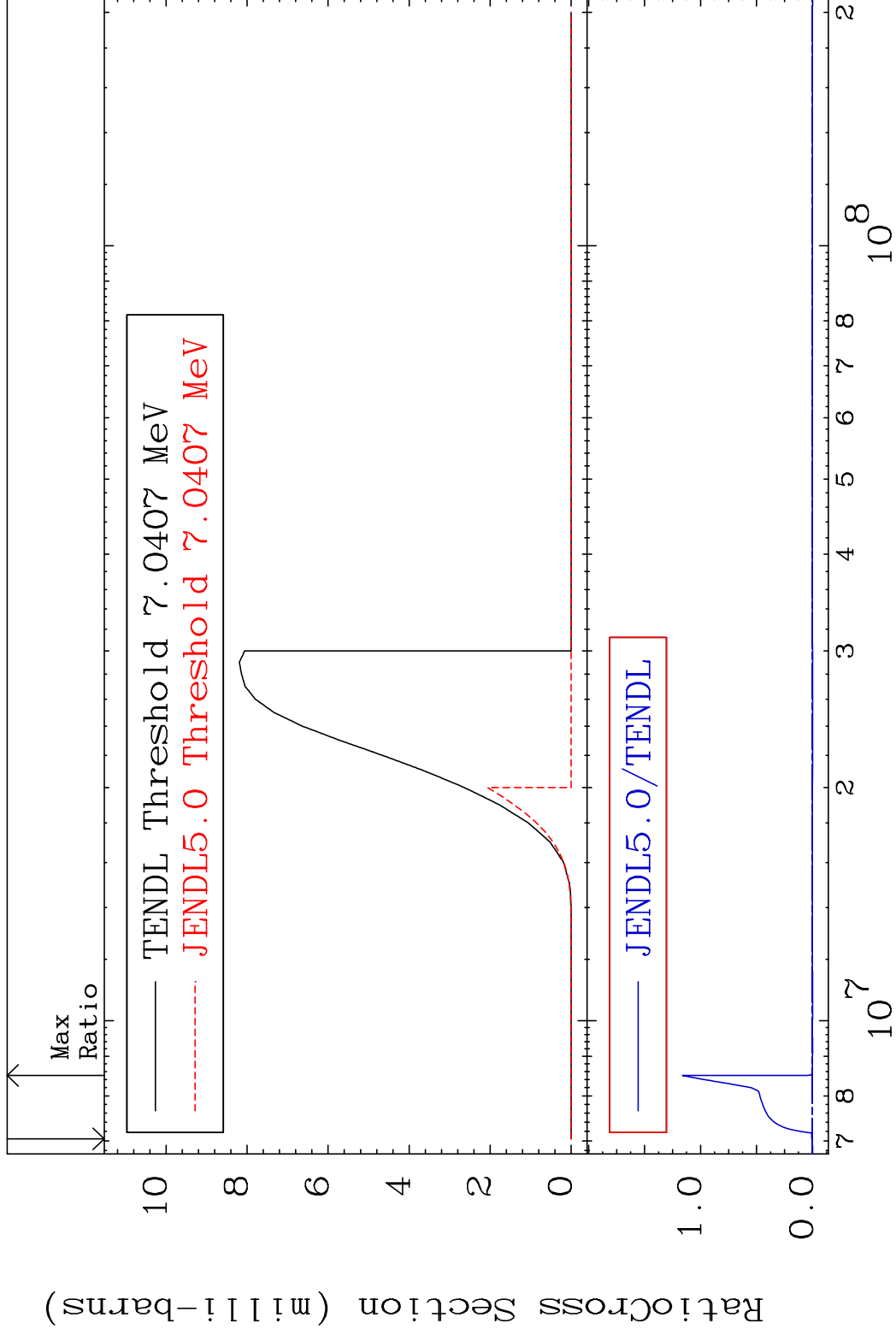


MAT 4834

(n, t)

48-Cd-109

Cross Section -100.0 To 9999. %

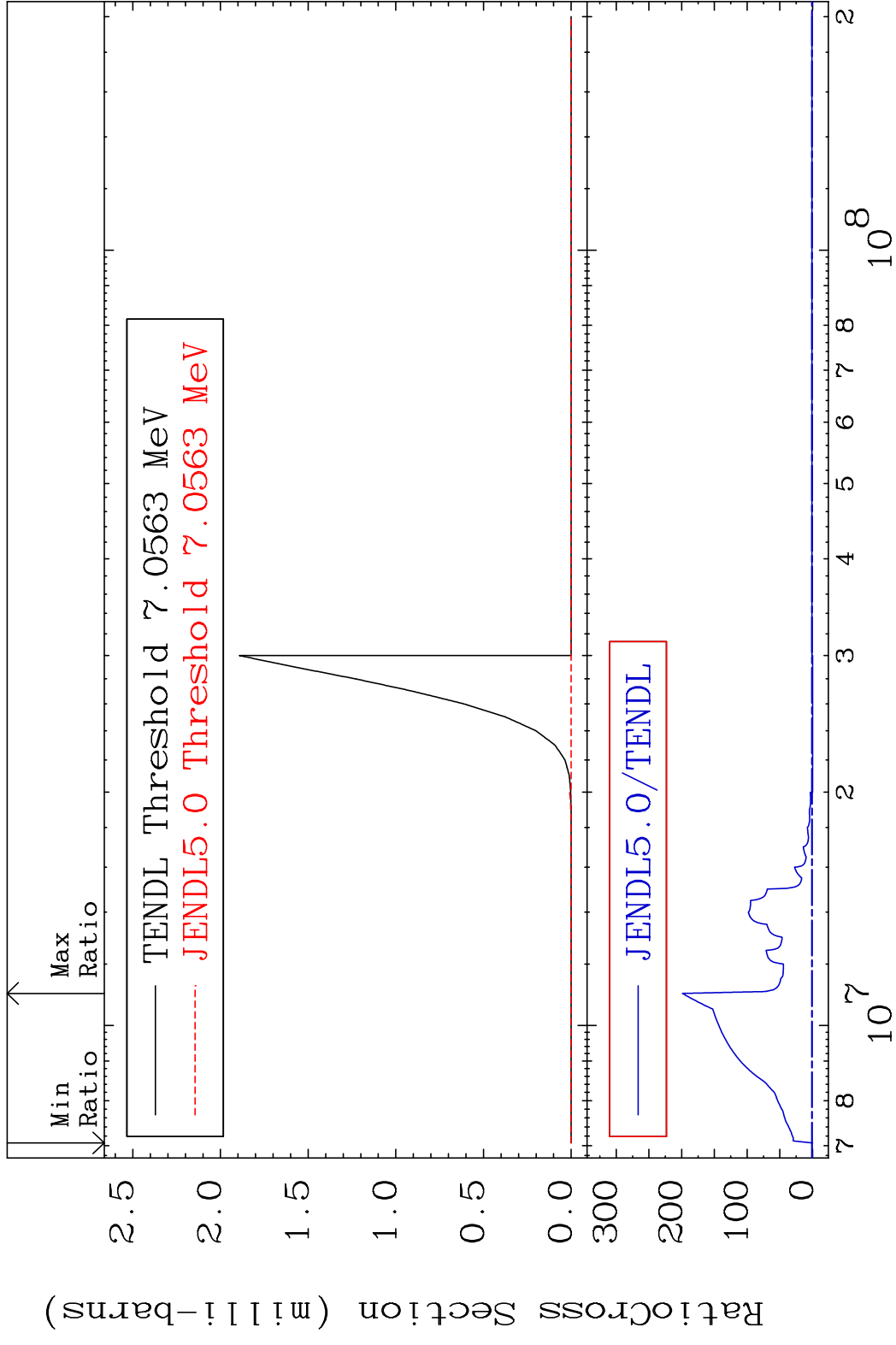


33

Incident Energy (eV)

48-Cd-109

MAT 4834 (n, He-3) 48-Cd-109
 Cross Section -100.0 To 9999. %

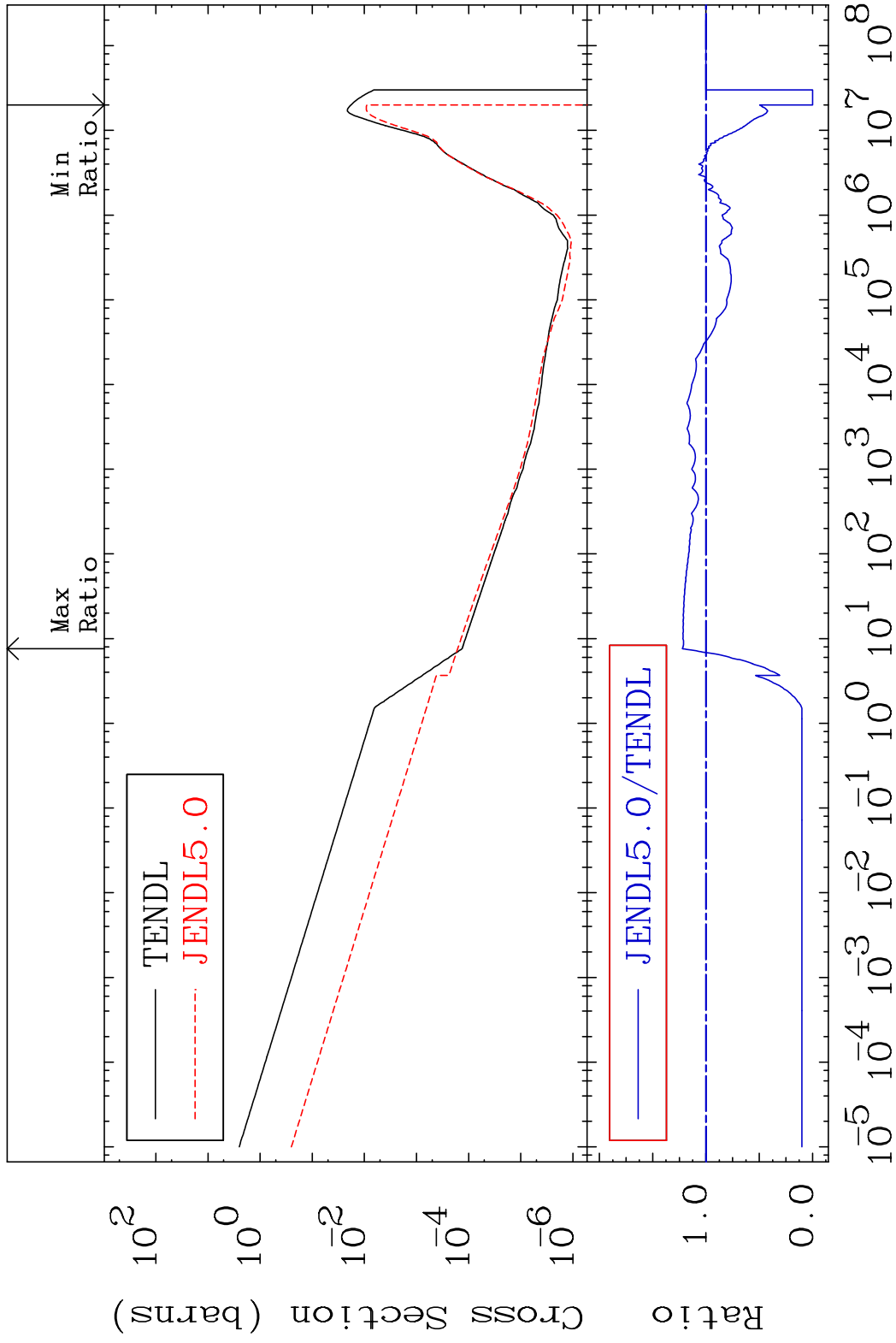


MAT 4834

(n, α)

48-Cd-109

Cross Section -100.0 To 22.18 %

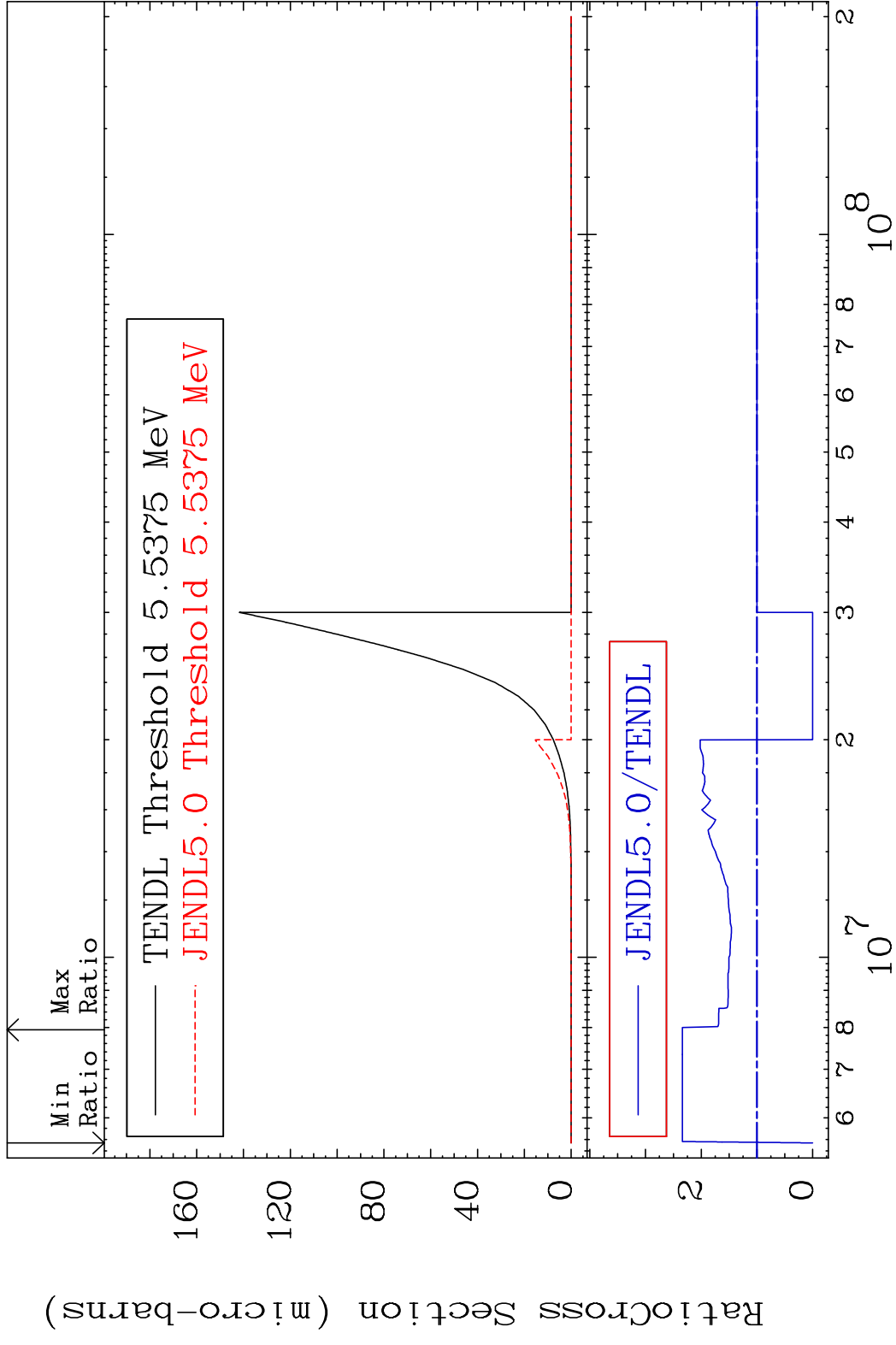


35

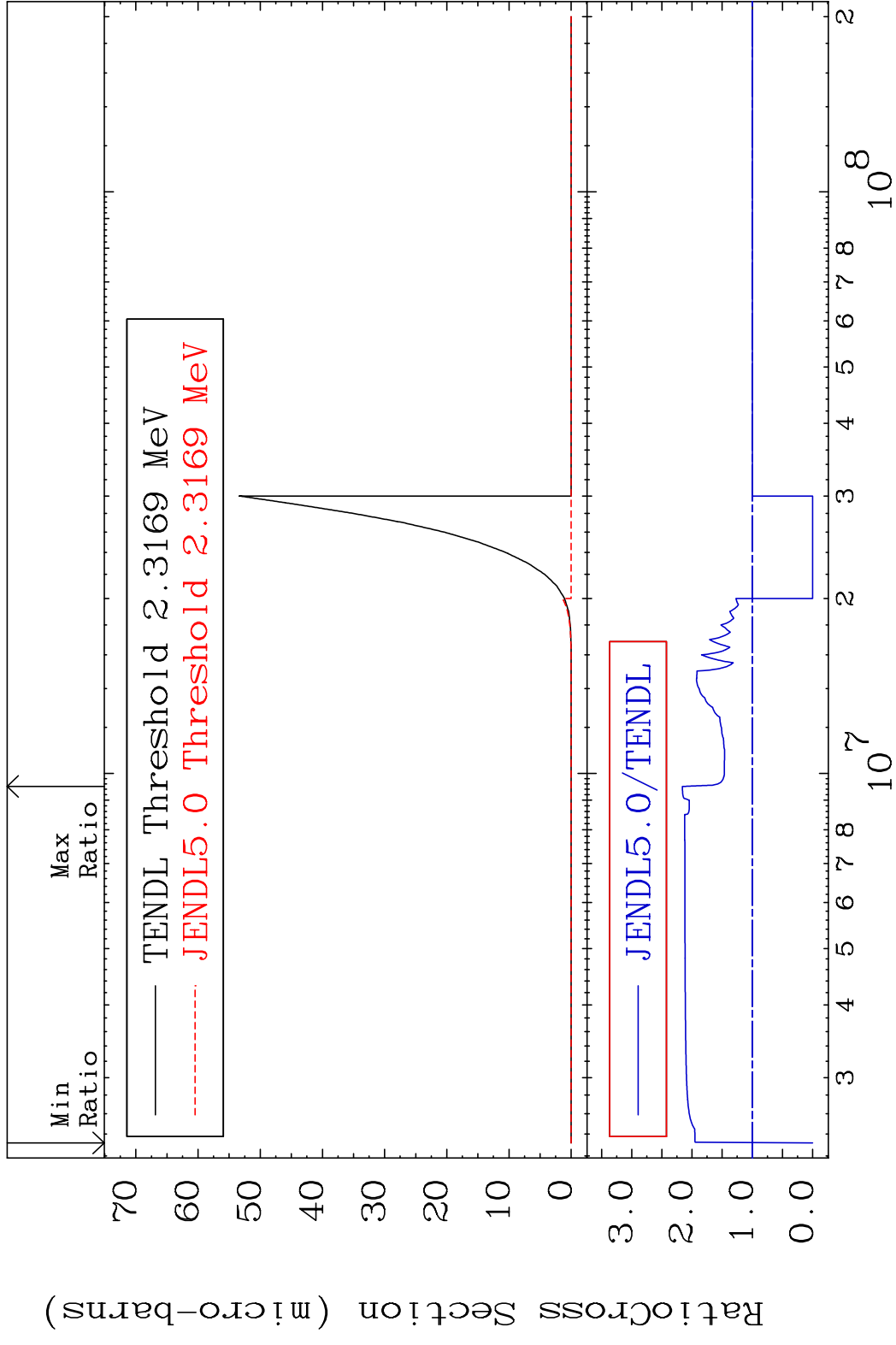
Incident Energy (eV)

48-Cd-109

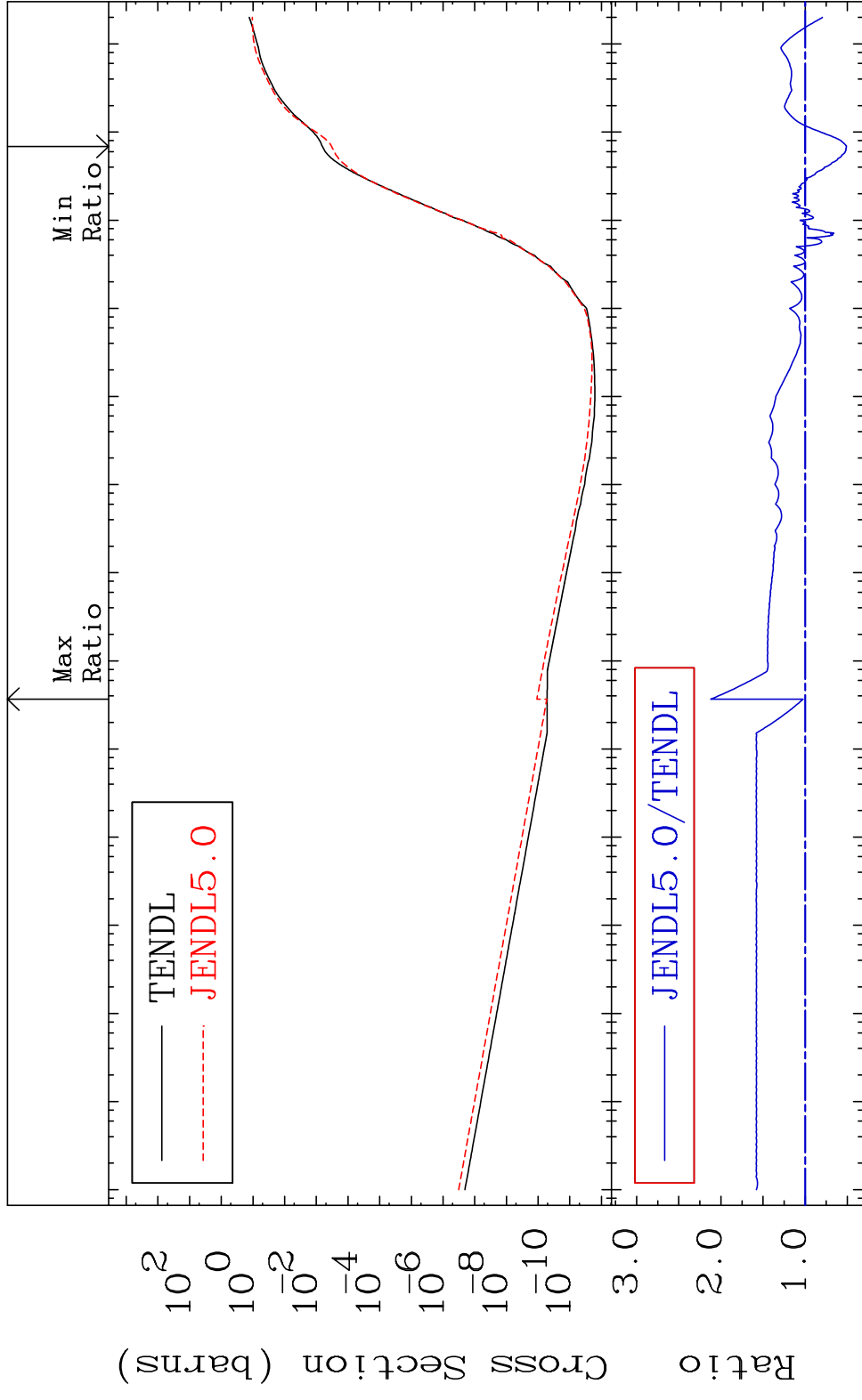
MAT 4834 (n,2p) 48-Cd-109
 Cross Section -100.0 To 133.9 %



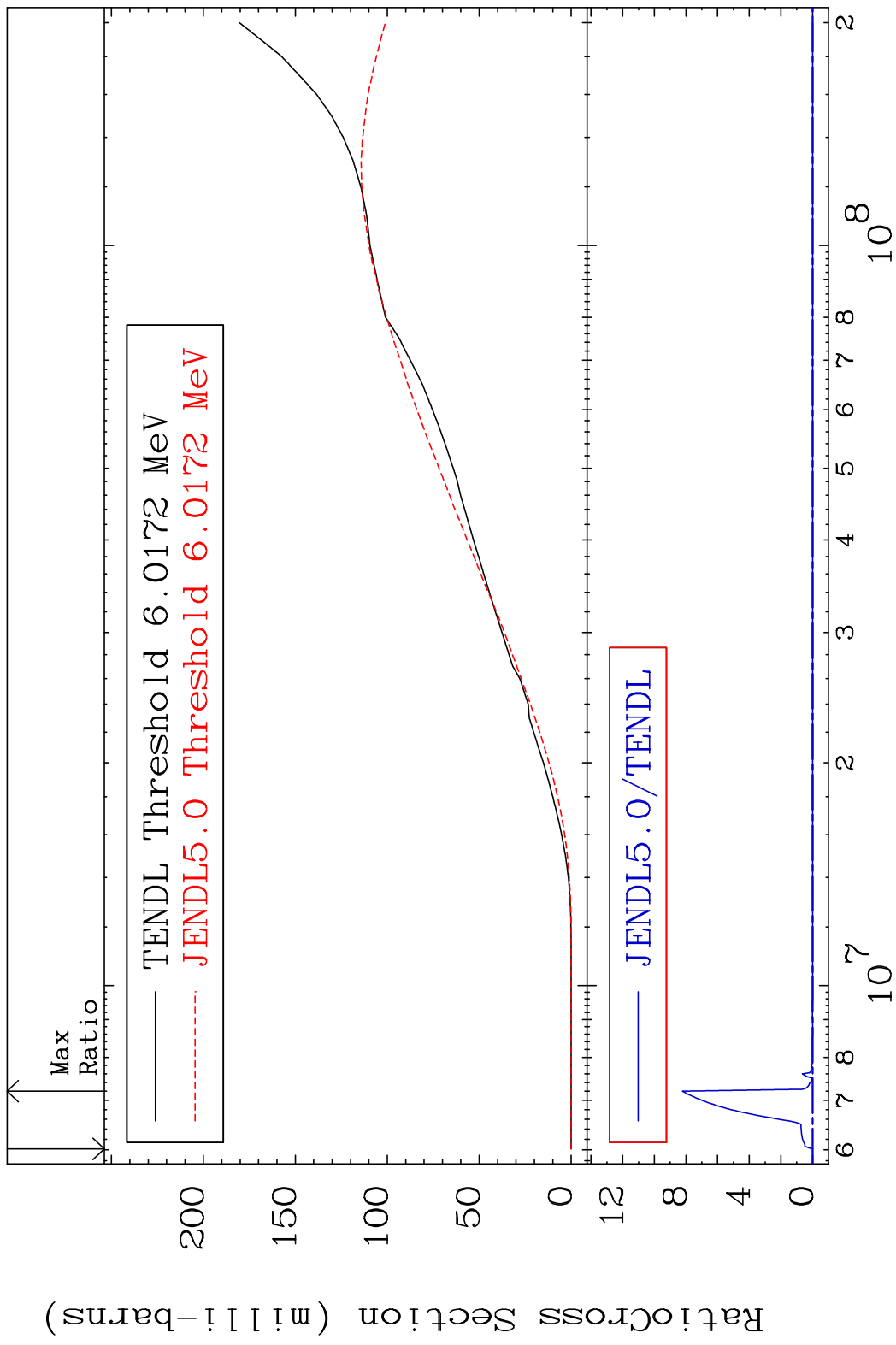
MAT 4834 (n,p) α 48-Cd-109
 Cross Section -100.0 To 116.1 %



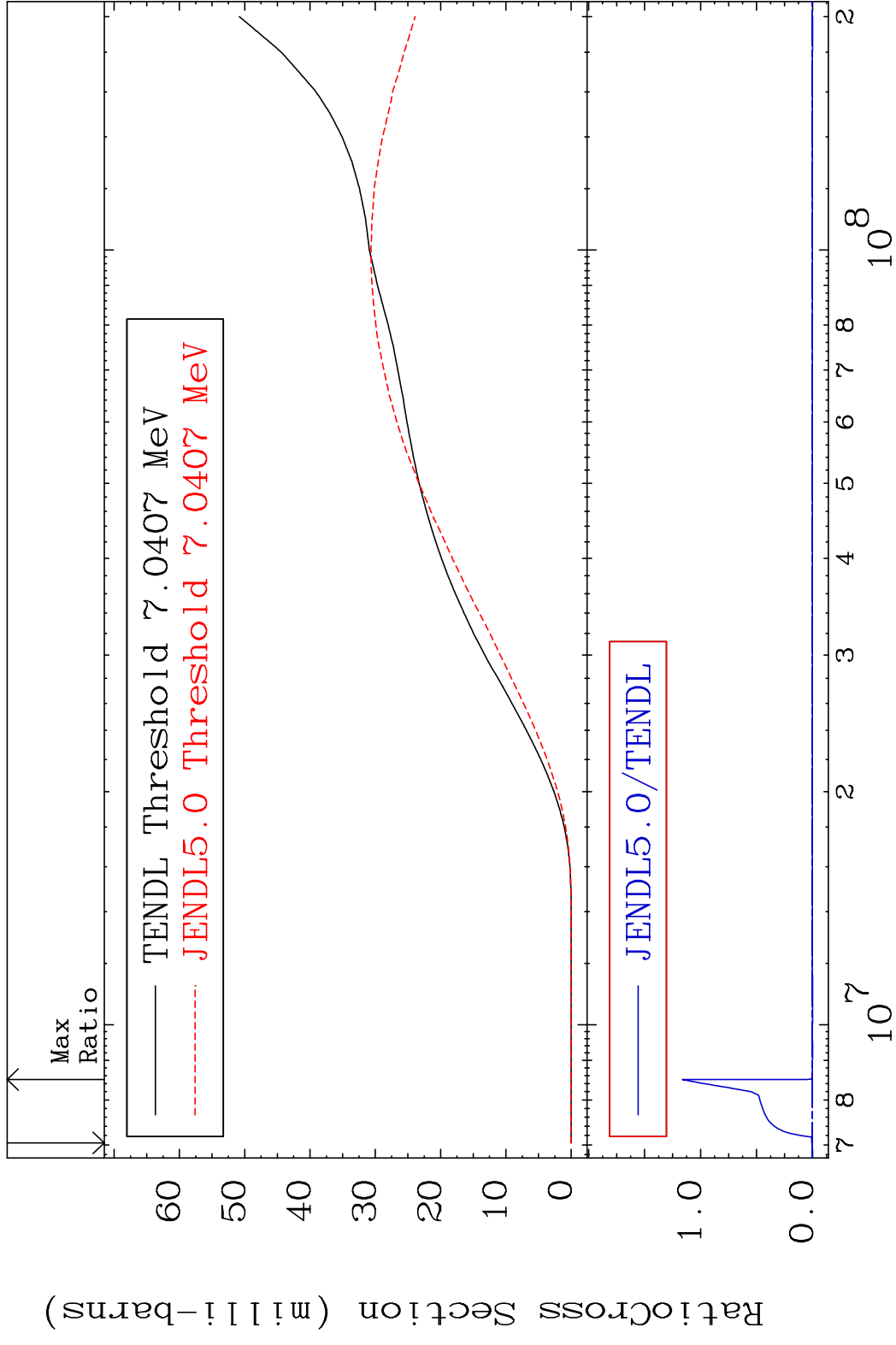
MAT 4834 Hydrogen Production 48-Cd-109
 Cross Section -48.75 To 112.1 %



MAT 4834 Deuterium Production 48-Cd-109
 Cross Section -100.0 To 9999. %

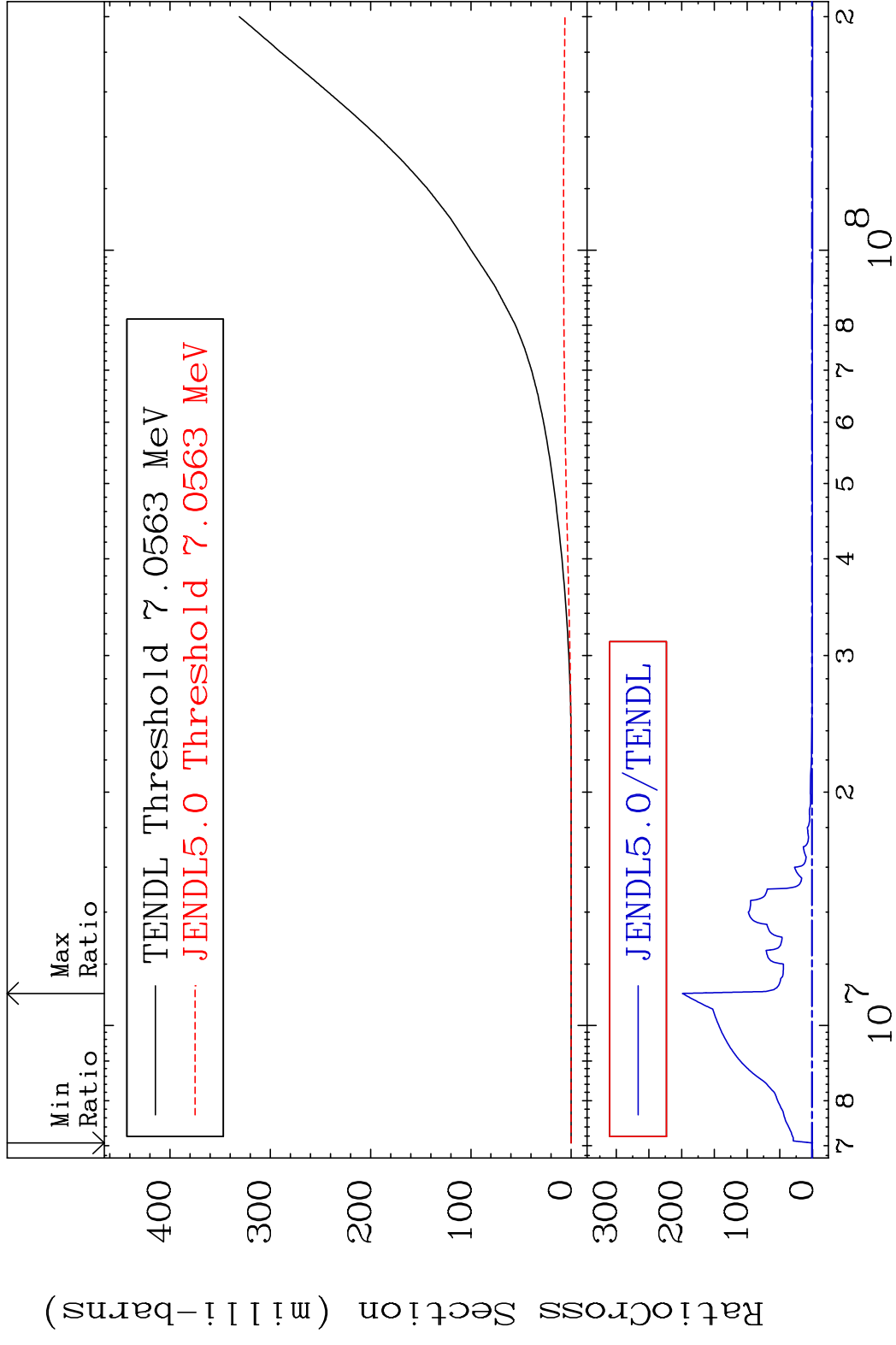


MAT 4834 Tritium Production 48-Cd-109
 Cross Section -100.0 To 9999. %



40 Incident Energy (eV) 48-Cd-109

MAT 4834 He-3 Production 48-Cd-109
 Cross Section -100.0 To 9999. %

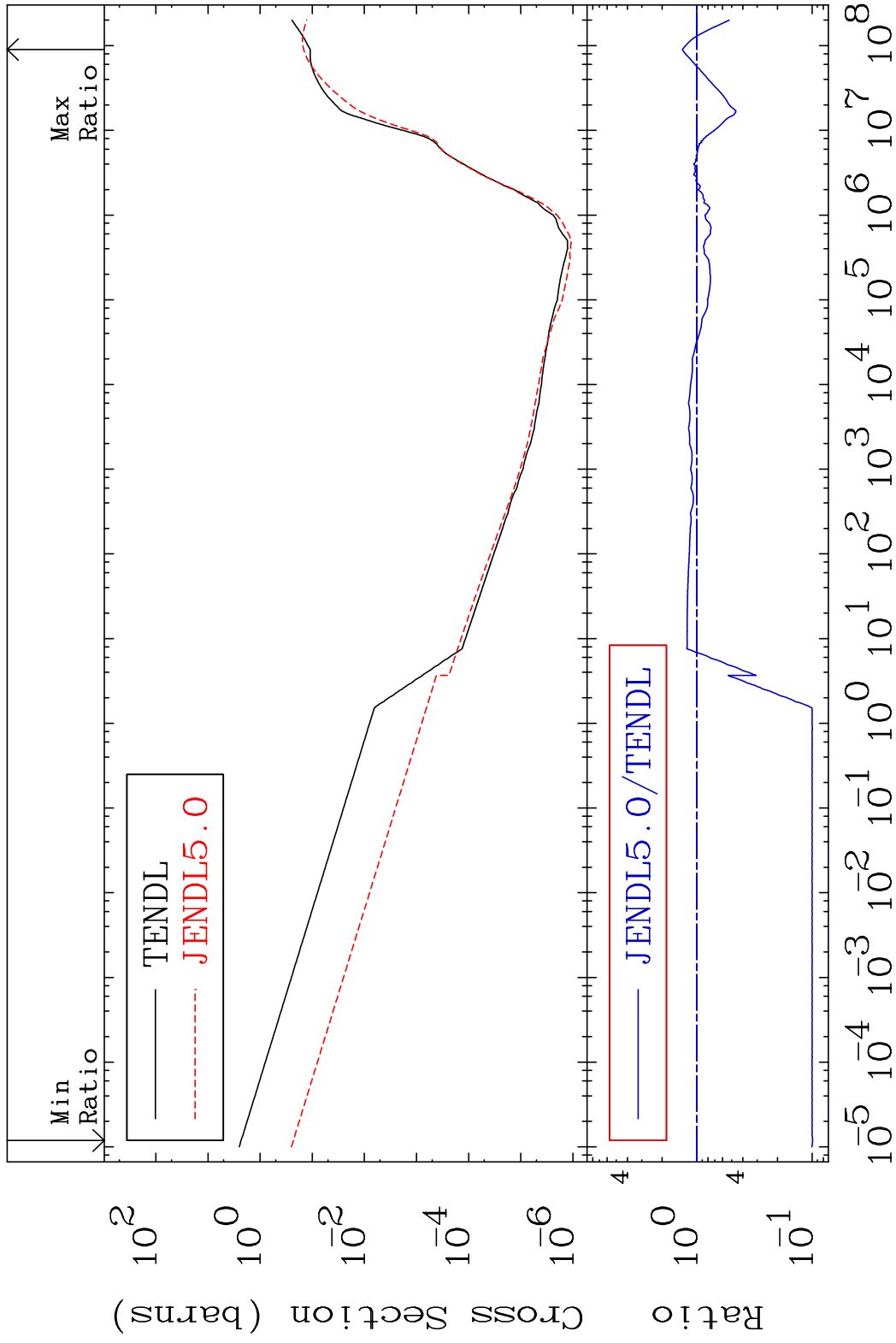


MAT 4834

He-4 Production

48-Cd-109

Cross Section -90.07 To 33.53 %

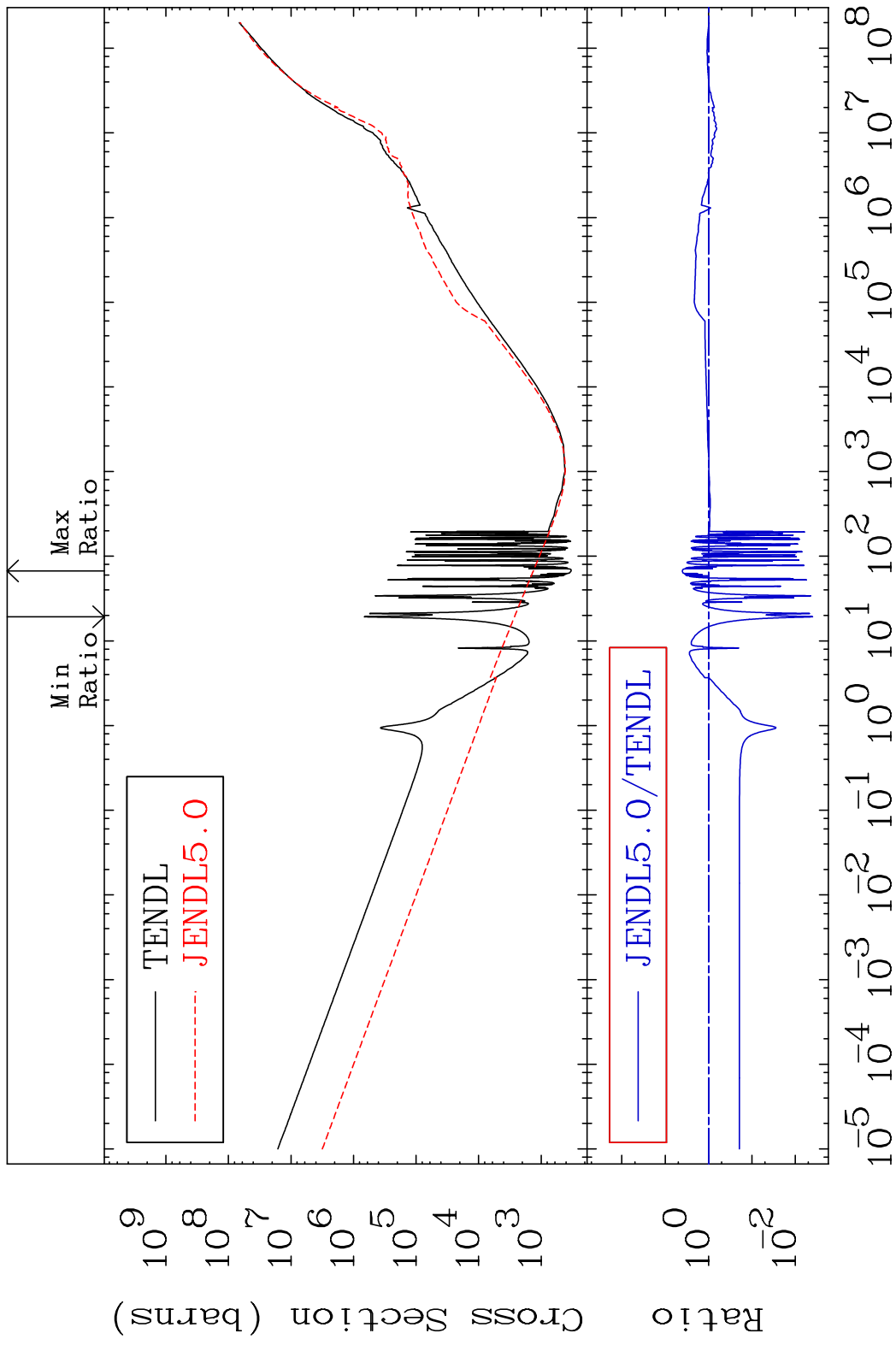


42

Incident Energy (eV)

48-Cd-109

MAT 4834 Kerma total (eV-barns) 48-Cd-109
 Cross Section -99.60 To 301.6 %

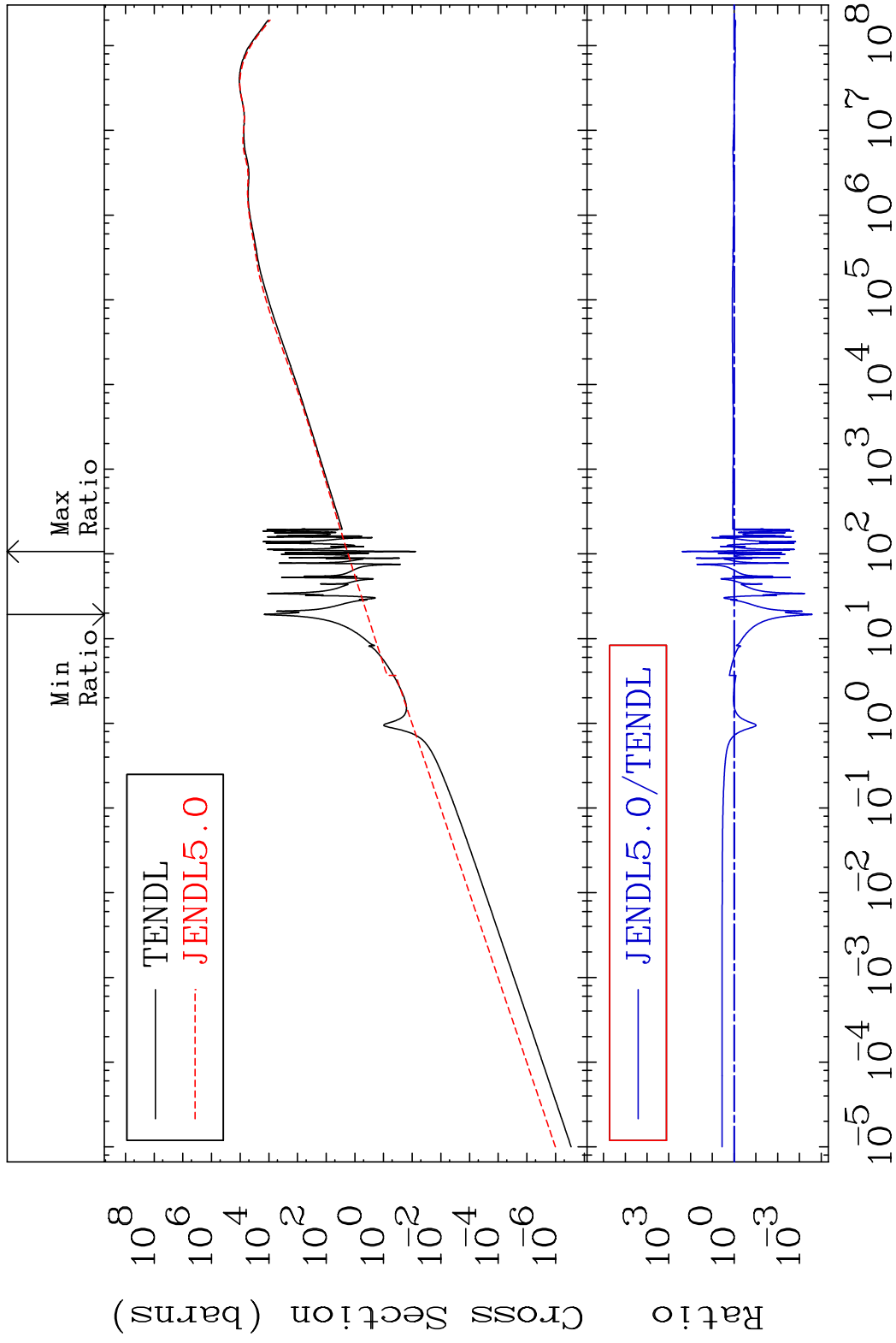


MAT 4834

Kerma elastic

48-Cd-109

Cross Section -99.97 To 9999. %

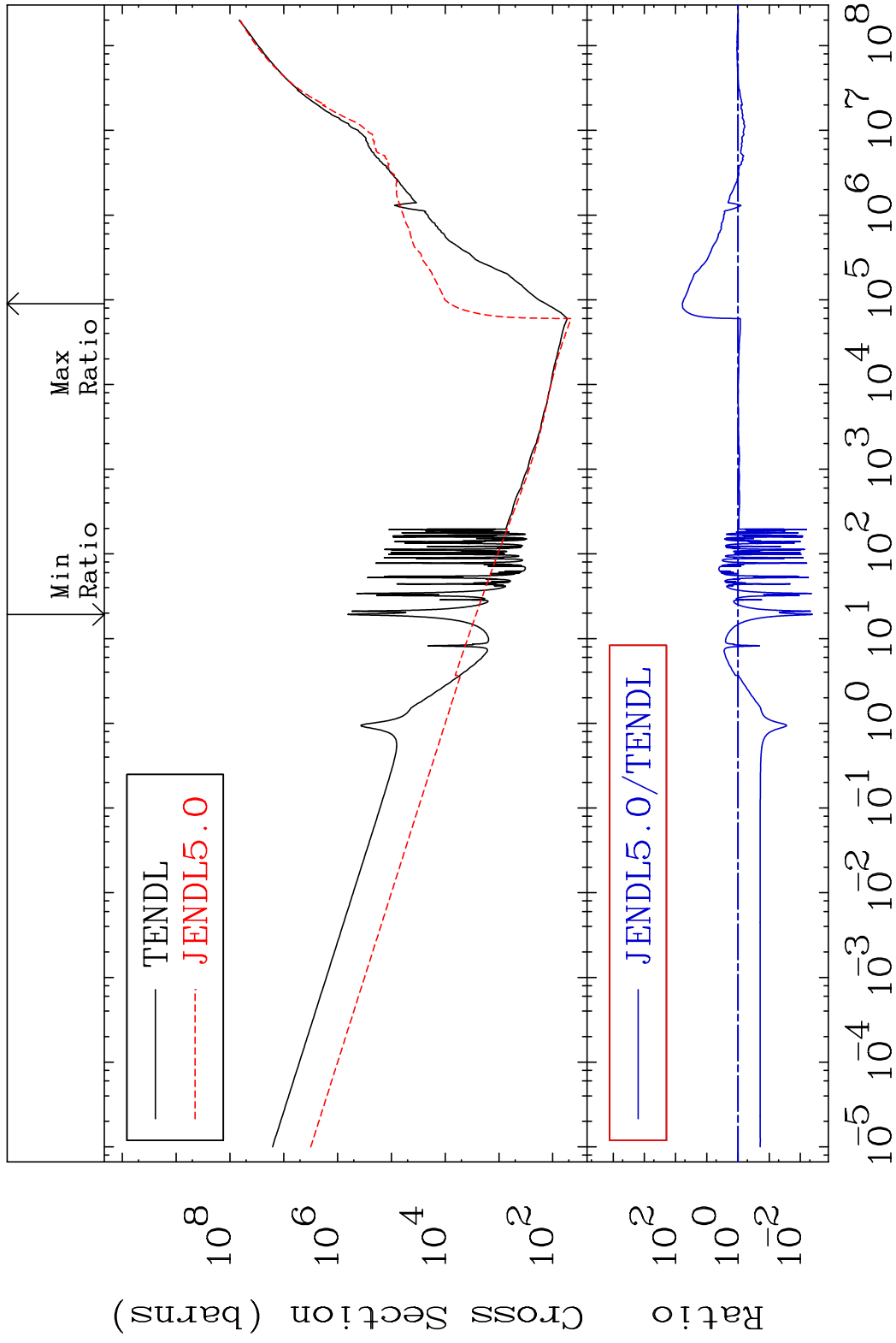


44

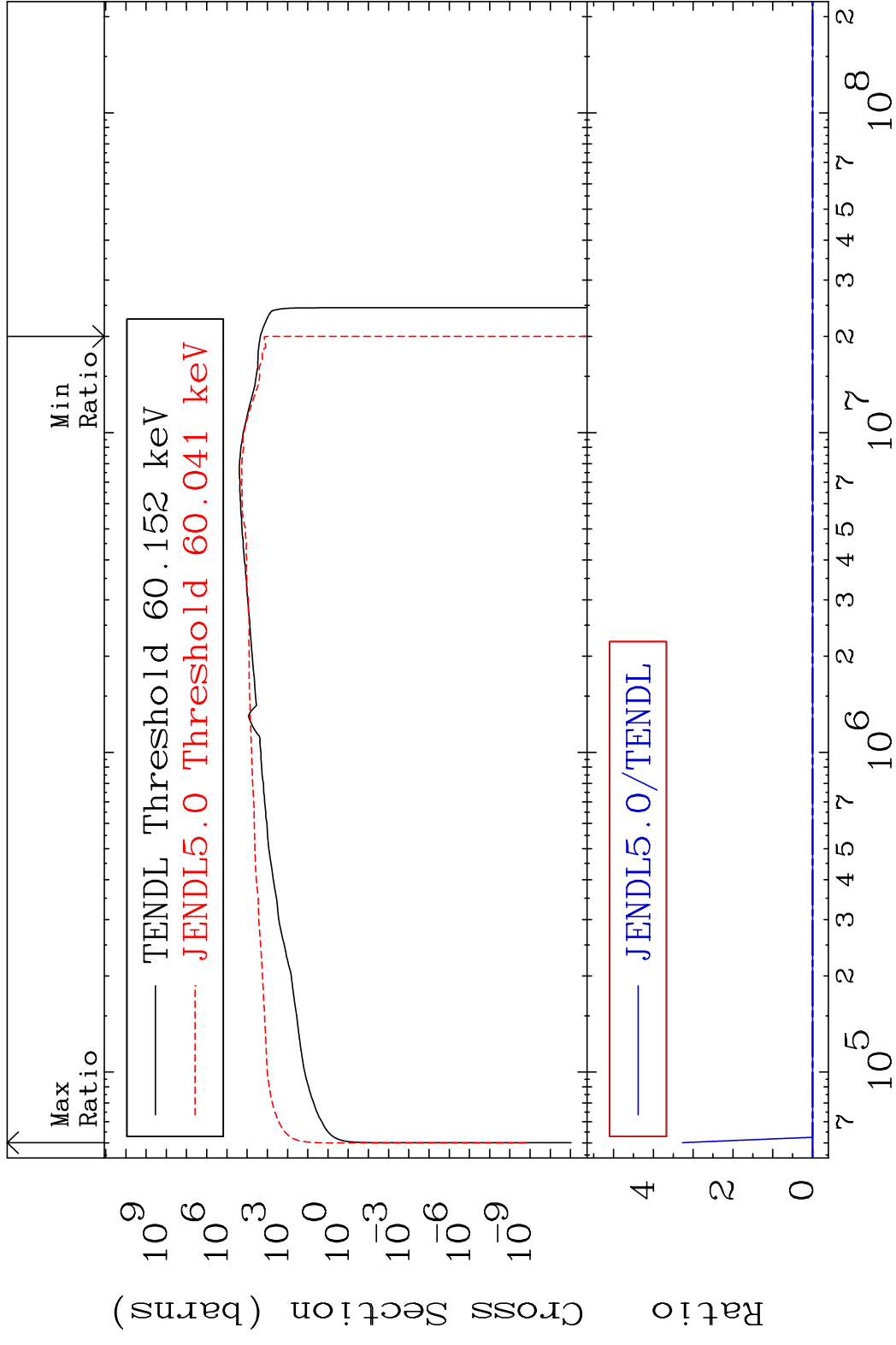
Incident Energy (eV)

48-Cd-109

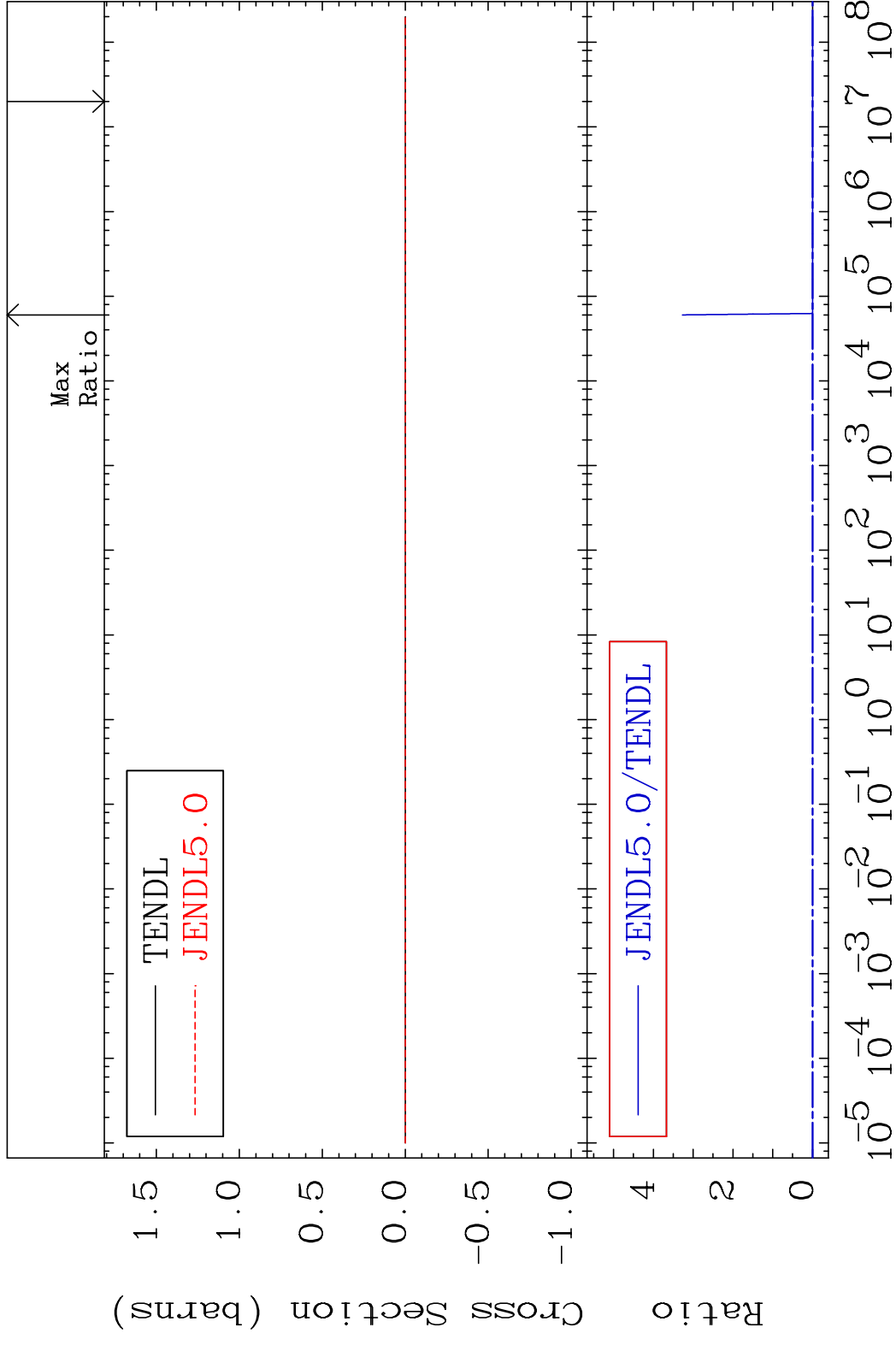
MAT 4834 Kerma non-elastic (all but mt2) 48-Cd-109
 Cross Section -99.59 To 5978. %



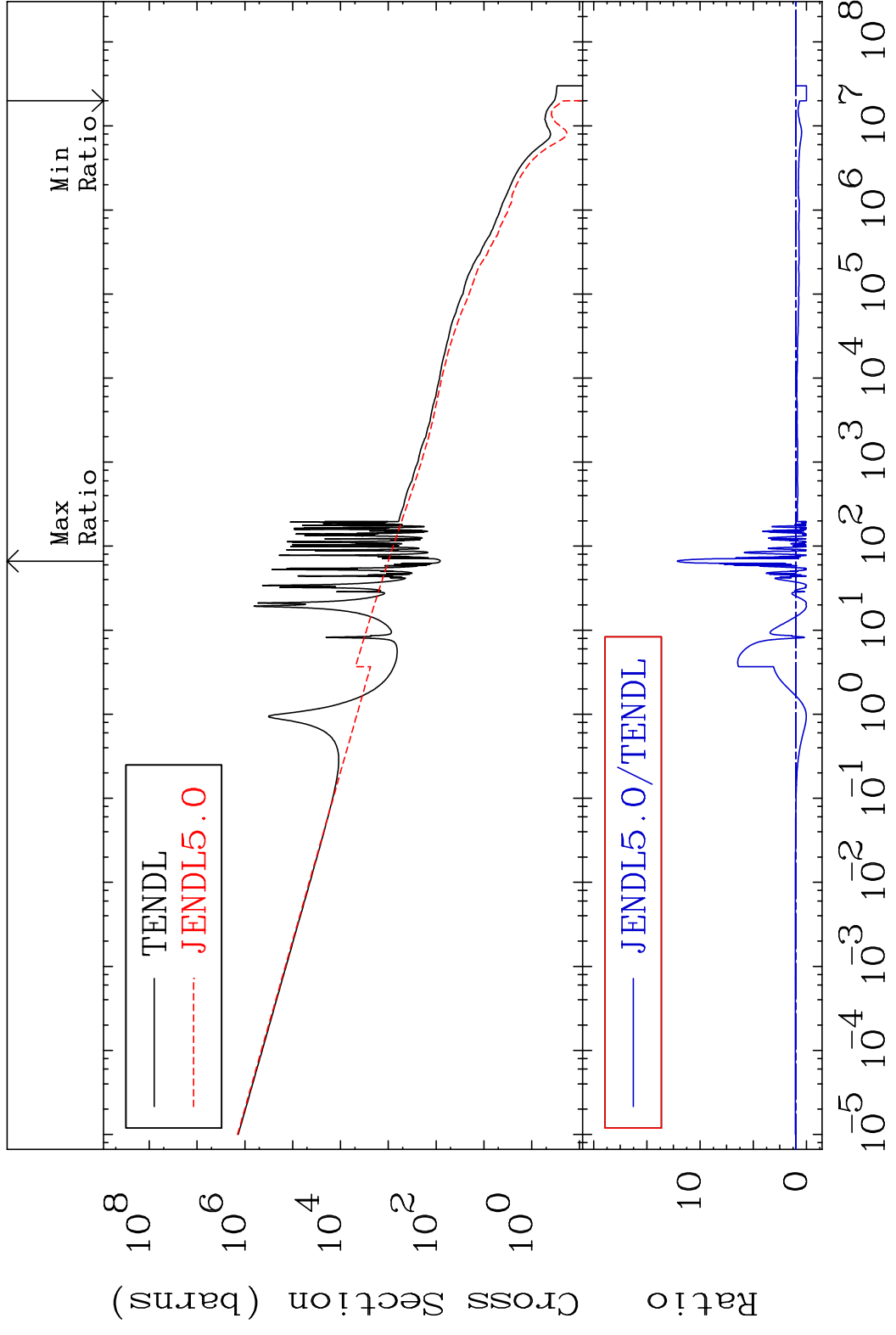
MAT 4834 Kerma inelastic (mt51-91) 48-Cd-109
 Cross Section -100.0 To 9999. %



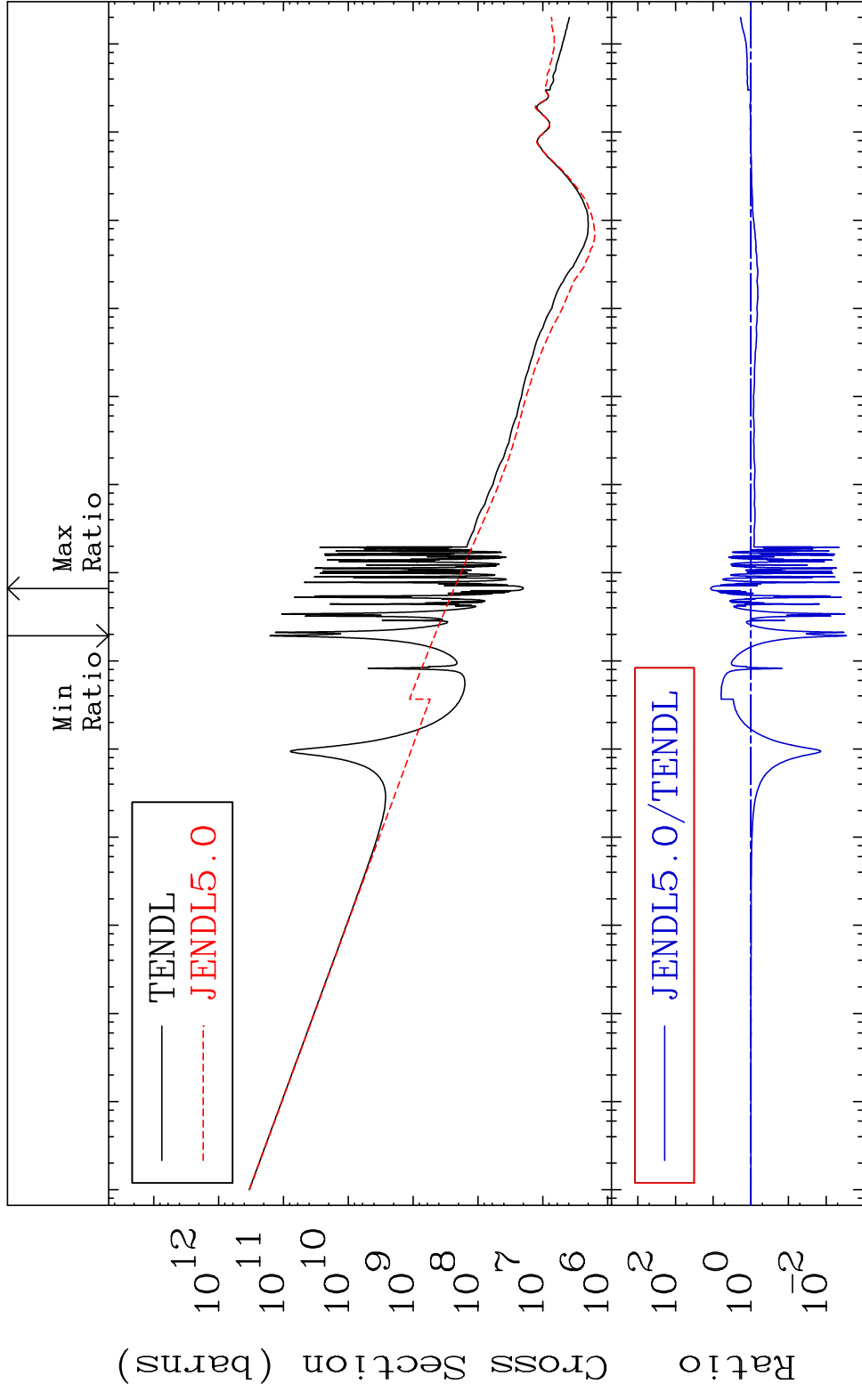
MAT 4834 Kerma fission (mt18 or mt19-20-21-38) 48-Cd-109
 Cross Section -100.0 To 9999. %



MAT 4834 Kerma capture (mt102) 48-Cd-109
 Cross Section -100.0 To 1115. %

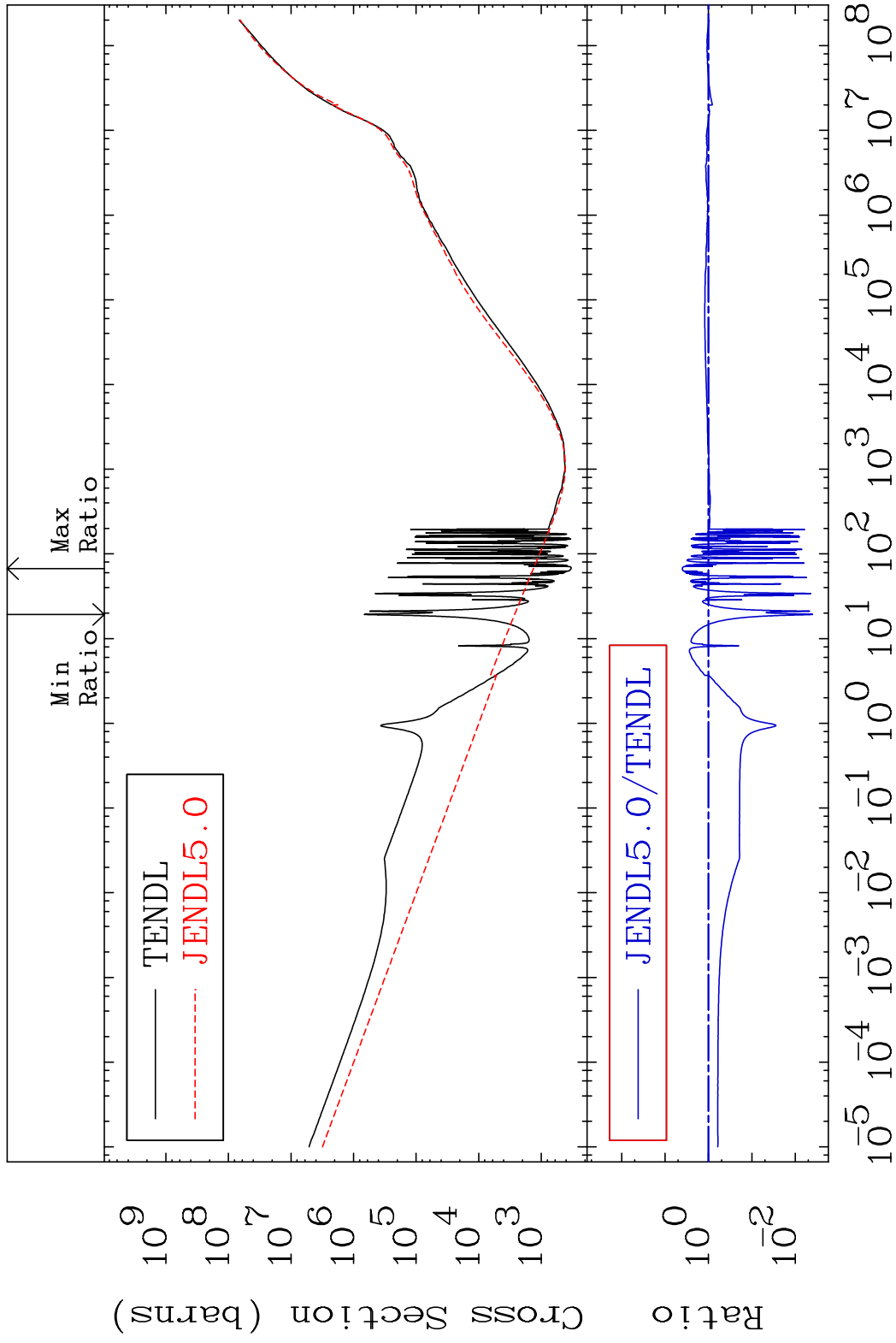


MAT 4834 Total photon (eV-barns) 48-Cd-109
 Cross Section -99.71 To 1061. %

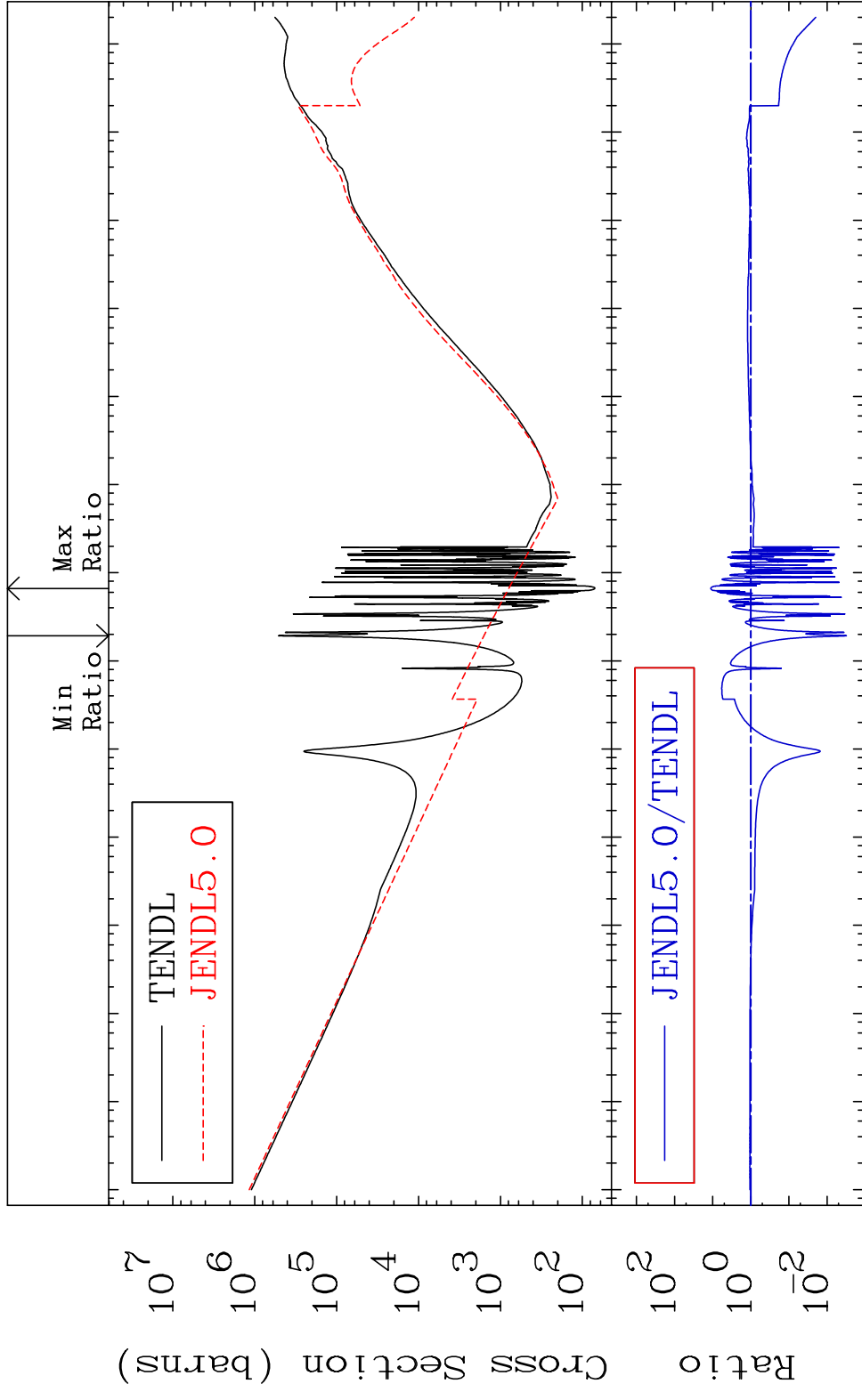


49 Incident Energy (eV) 48-Cd-109

MAT 4834 Total kinematic kerma (high limit) 48-Cd-109
 Cross Section -99.60 To 299.6 %



MAT 4834 Dpa total (eV-barns) 48-Cd-109
 Cross Section -99.69 To 1028. %



Ratio
 Cross Section (barns)

10⁷
 10⁶
 10⁵
 10⁴
 10³
 10²
 10²
 10⁰
 10⁻²

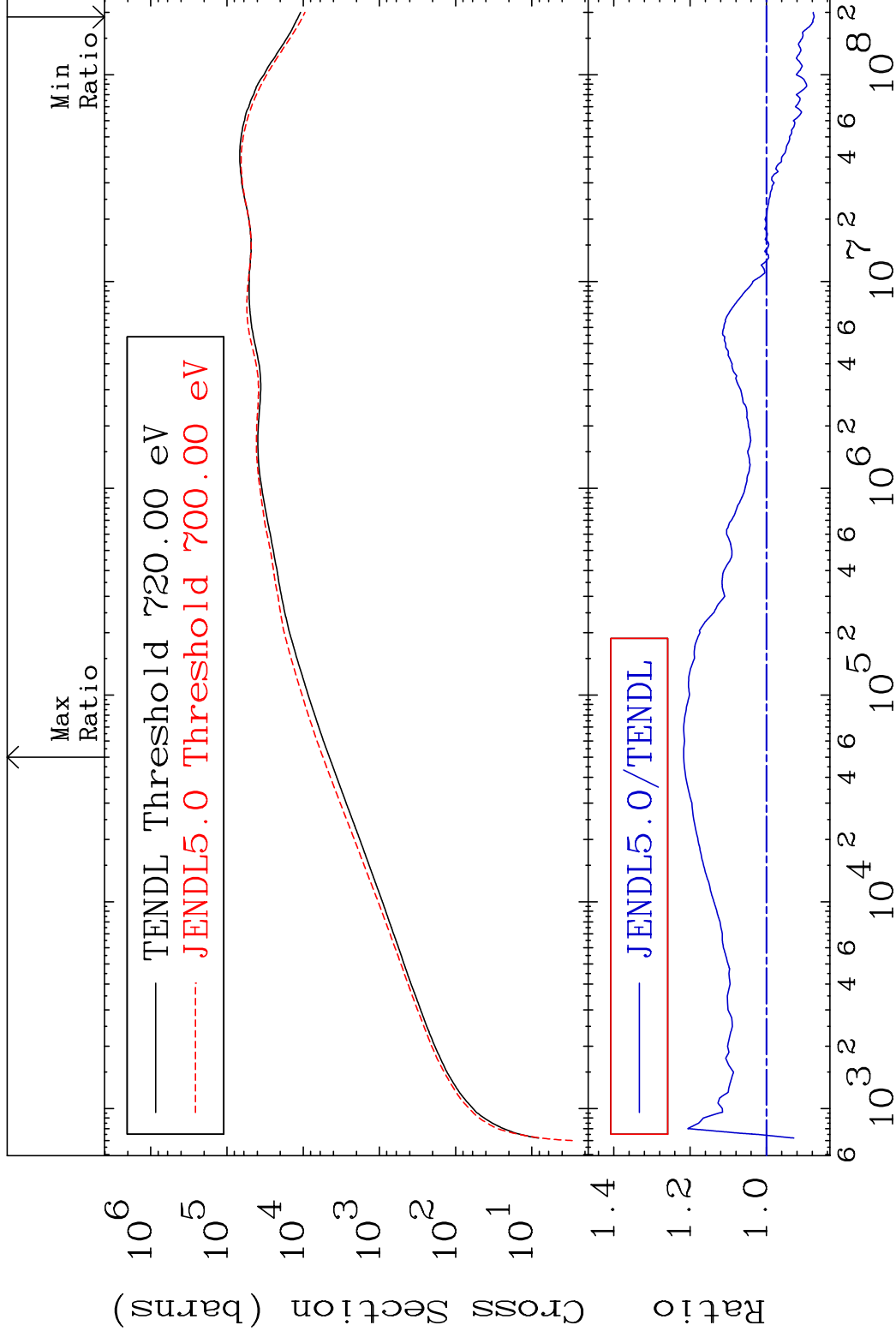
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

MAT 4834

Dpa elastic (mt2)

48-Cd-109

Cross Section -12.49 To 21.69 %

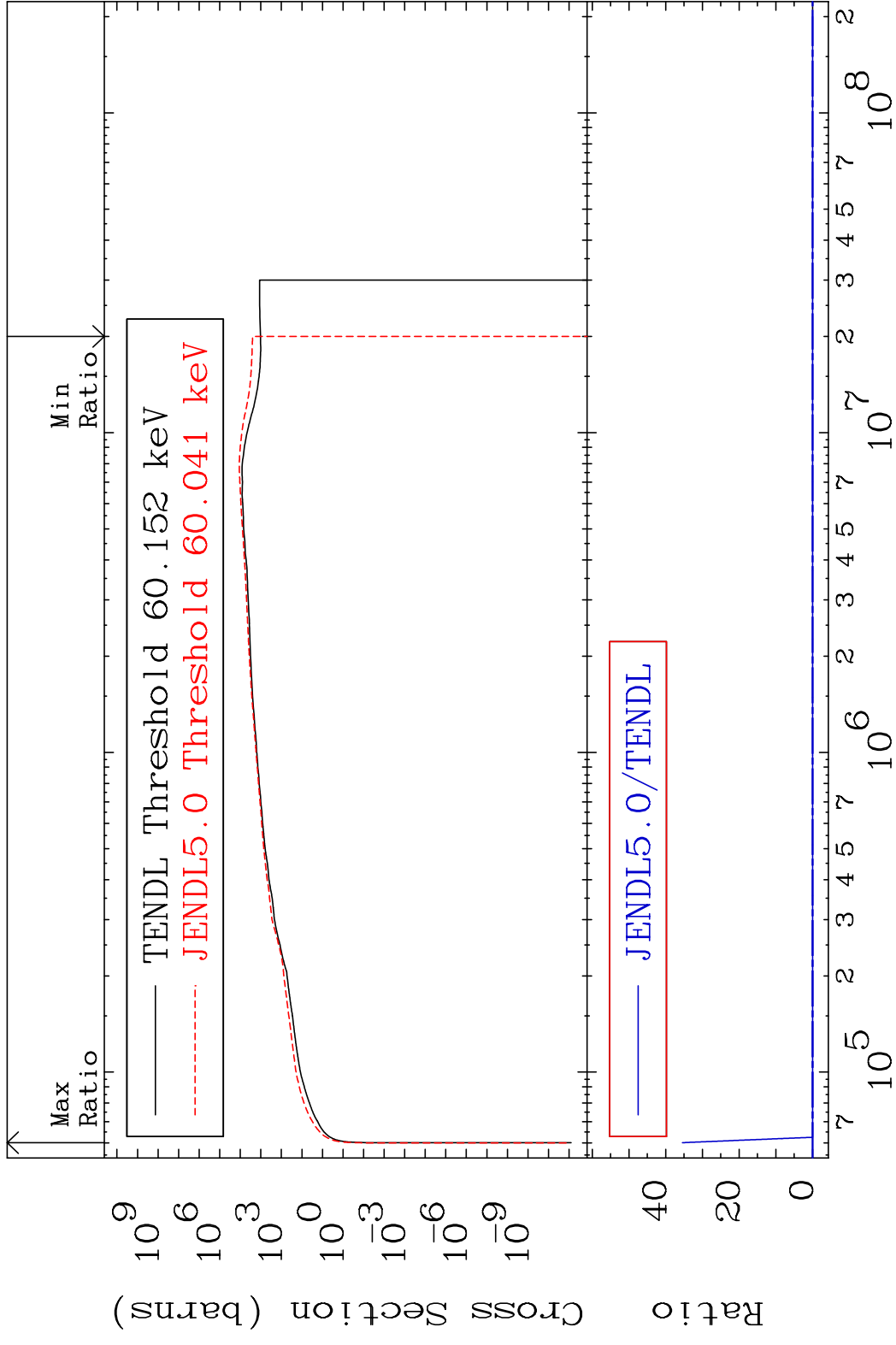


52

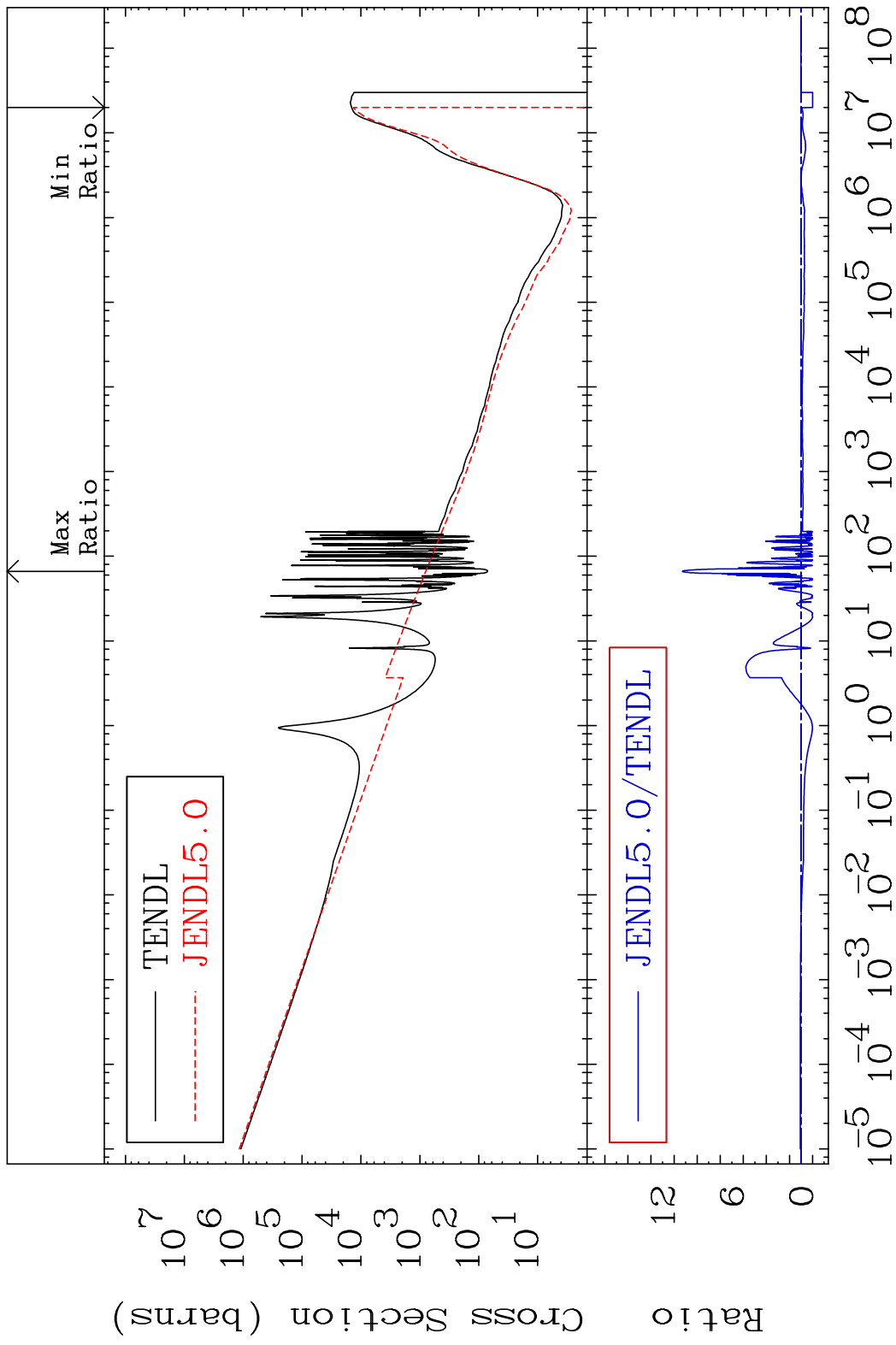
Incident Energy (eV)

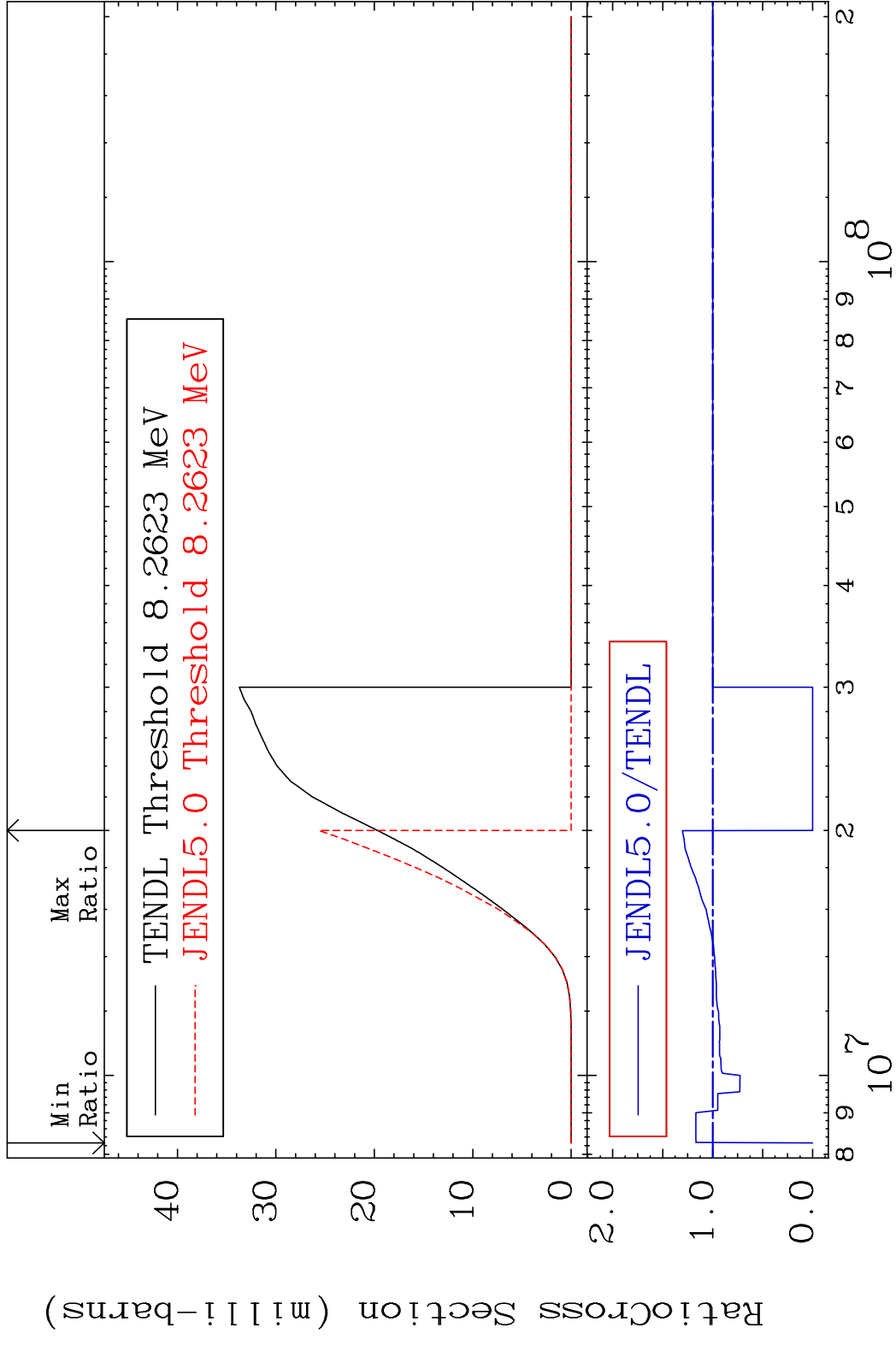
48-Cd-109

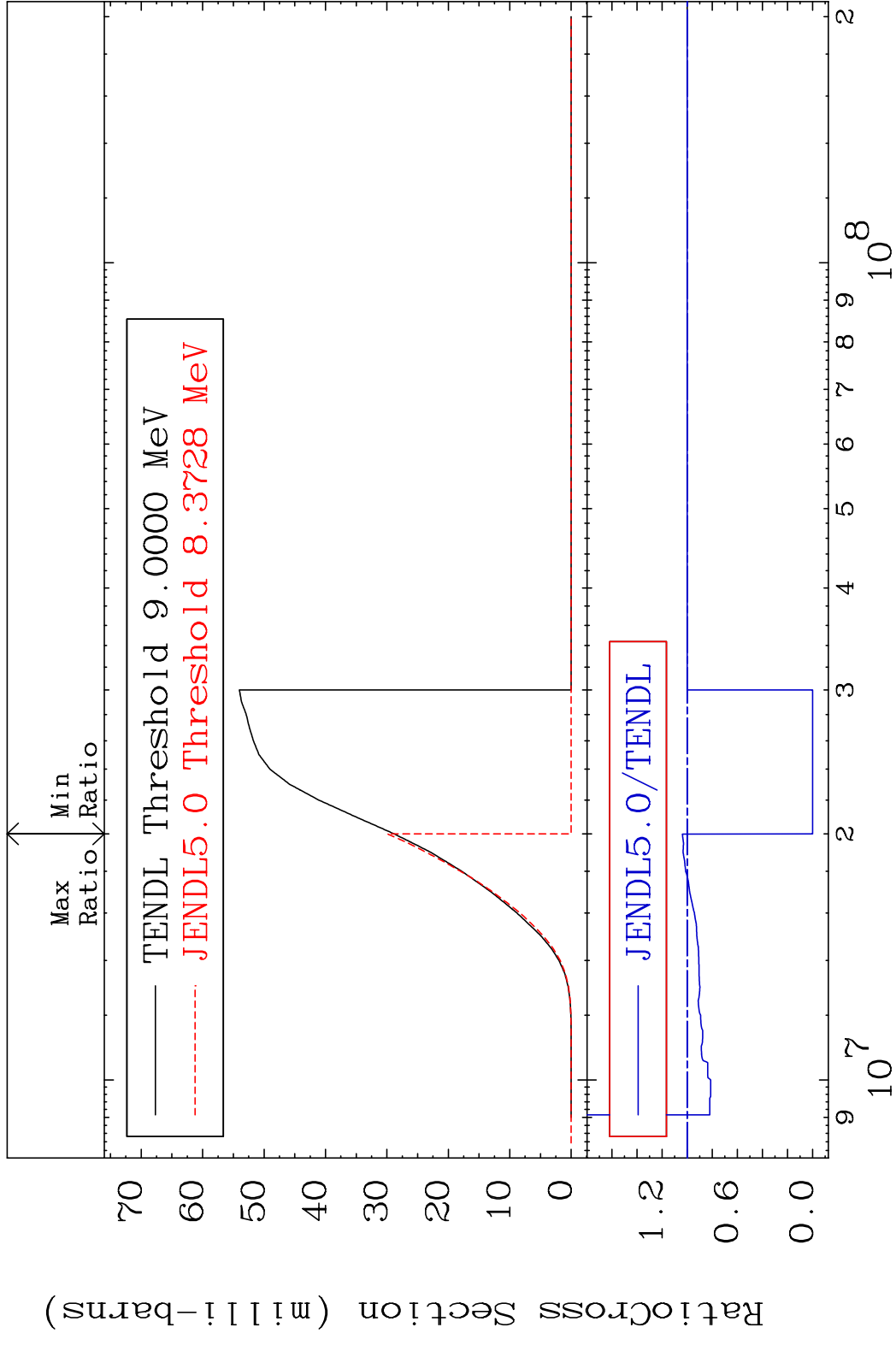
MAT 4834 Dpa inelastic (mt51-91) 48-Cd-109
 Cross Section -100.0 To 9999. %



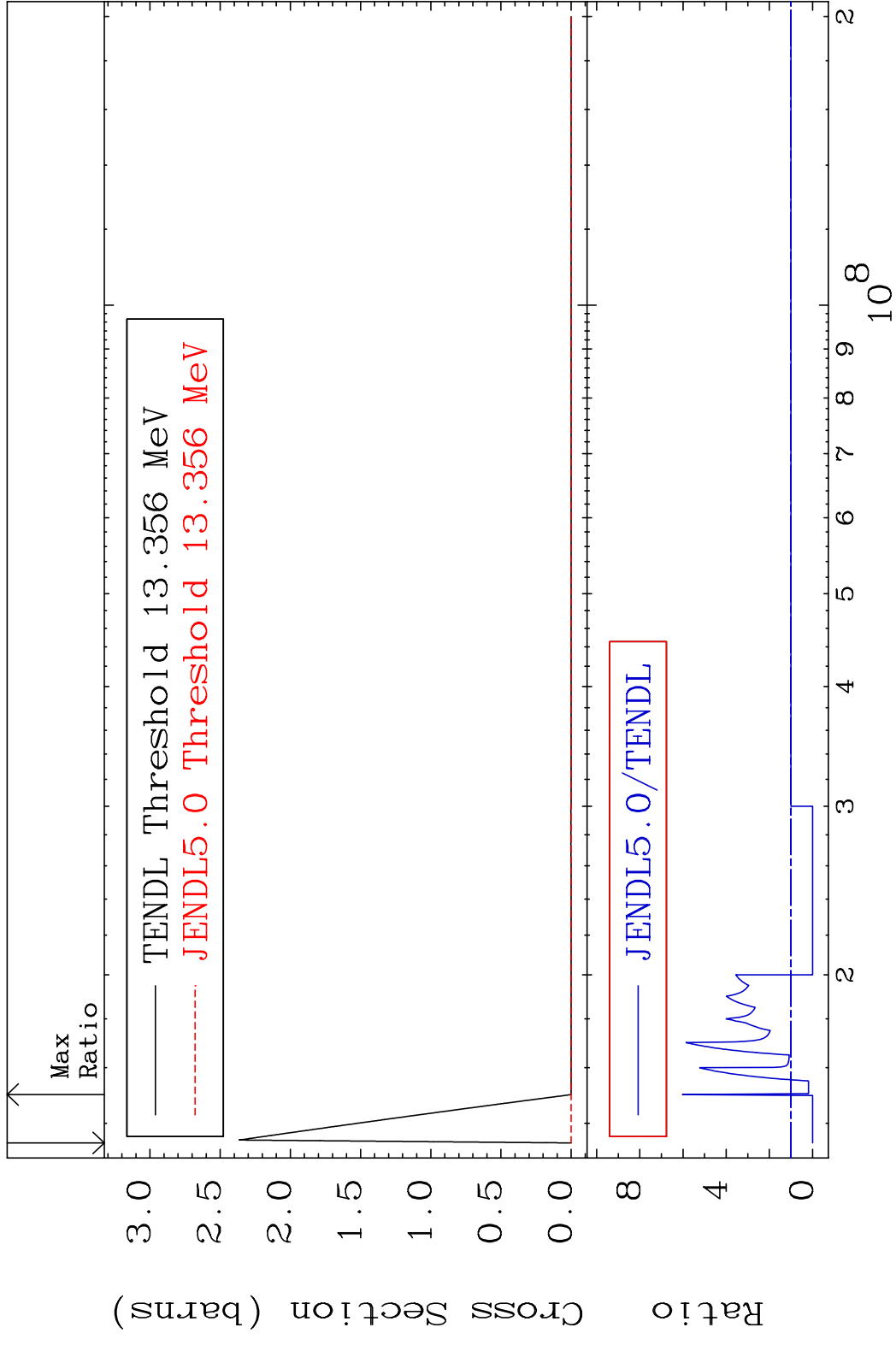
MAT 4834 Dpa disappearance (mt102 -120) 48-Cd-109
 Cross Section -100.0 To 1028. %

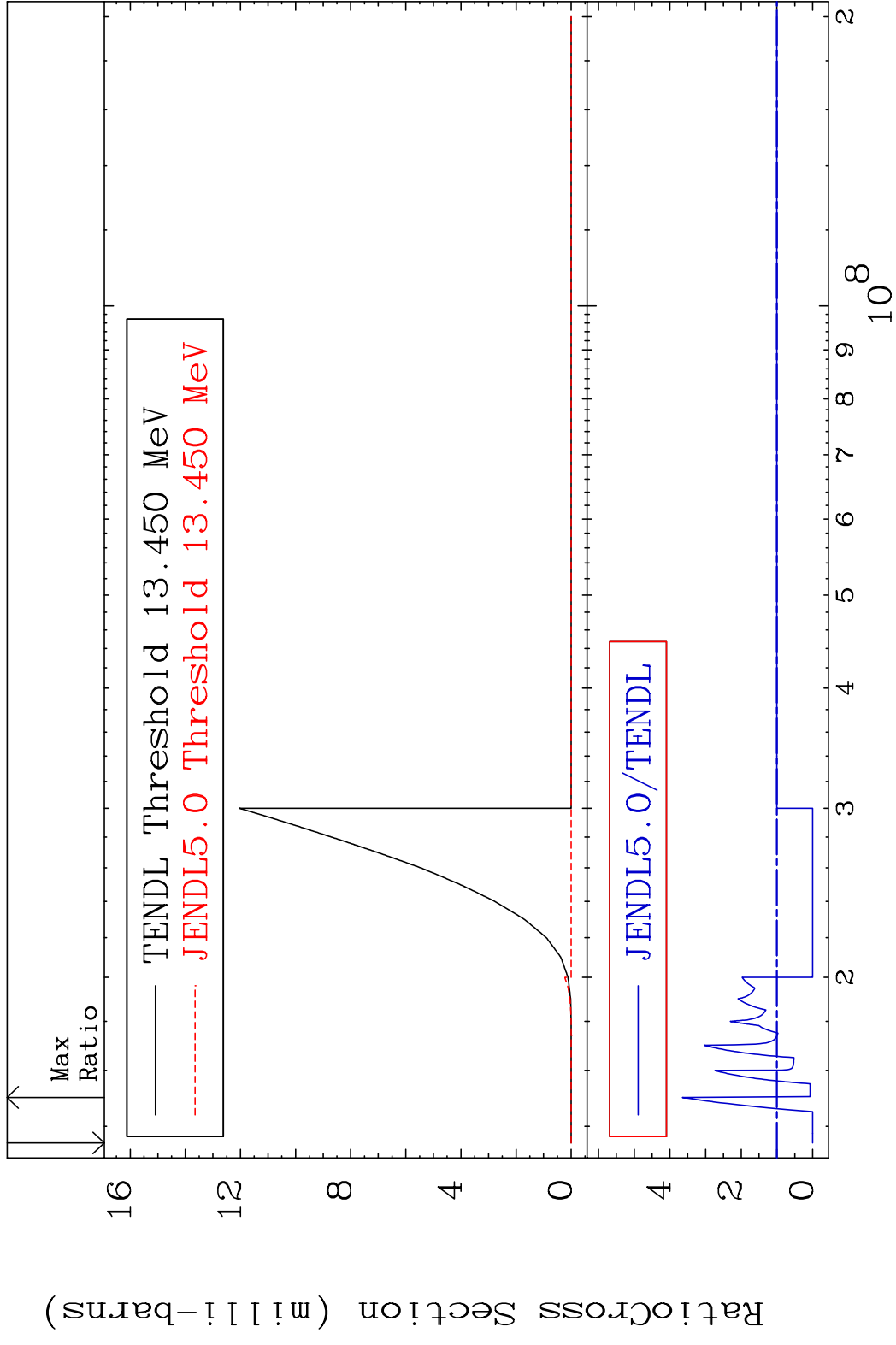




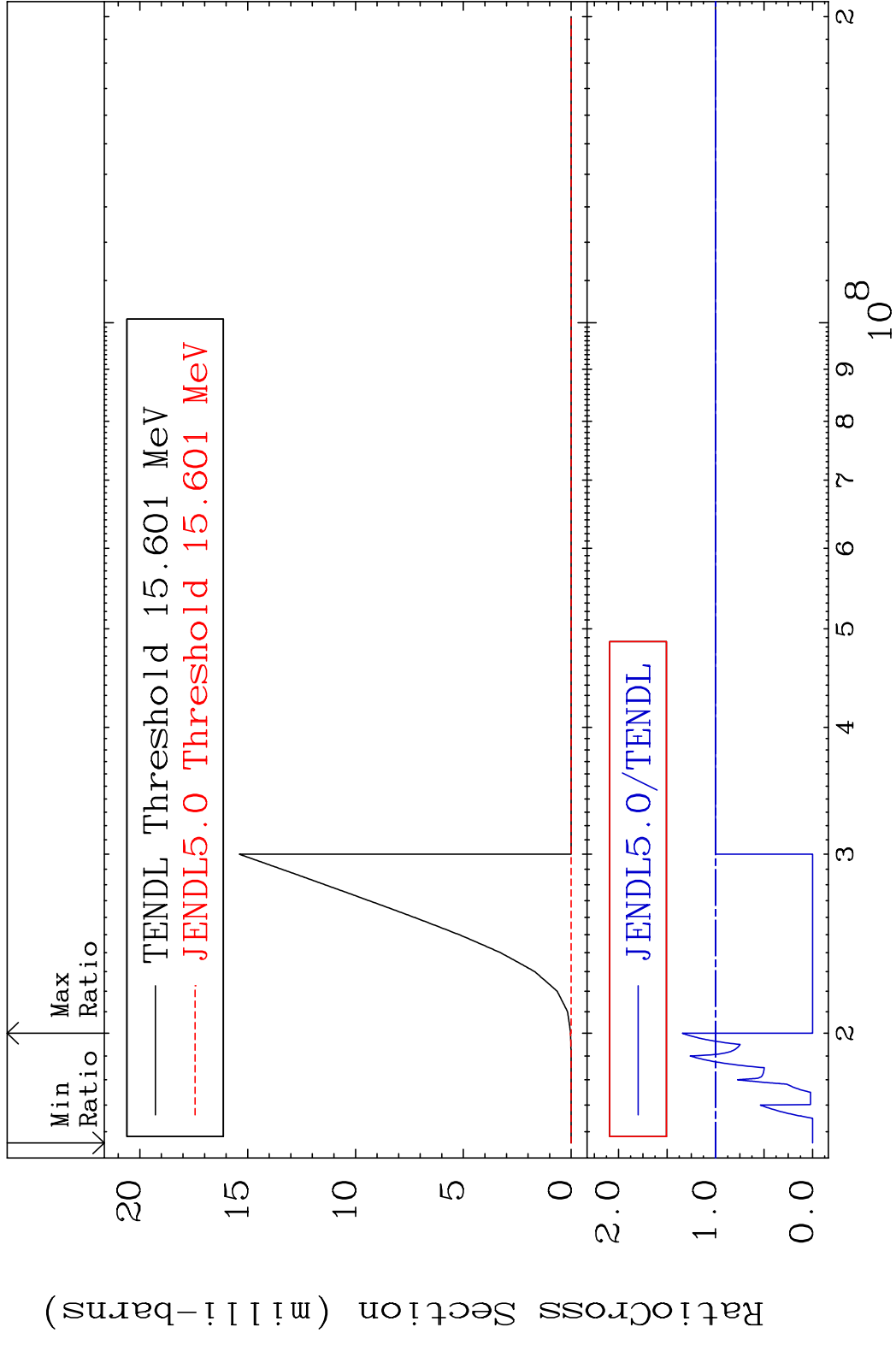


MAT 4834 (n, n') d:47-Ag-107g 48-Cd-109
 Radionuclide Production Cross Section Ratio 503.0 %

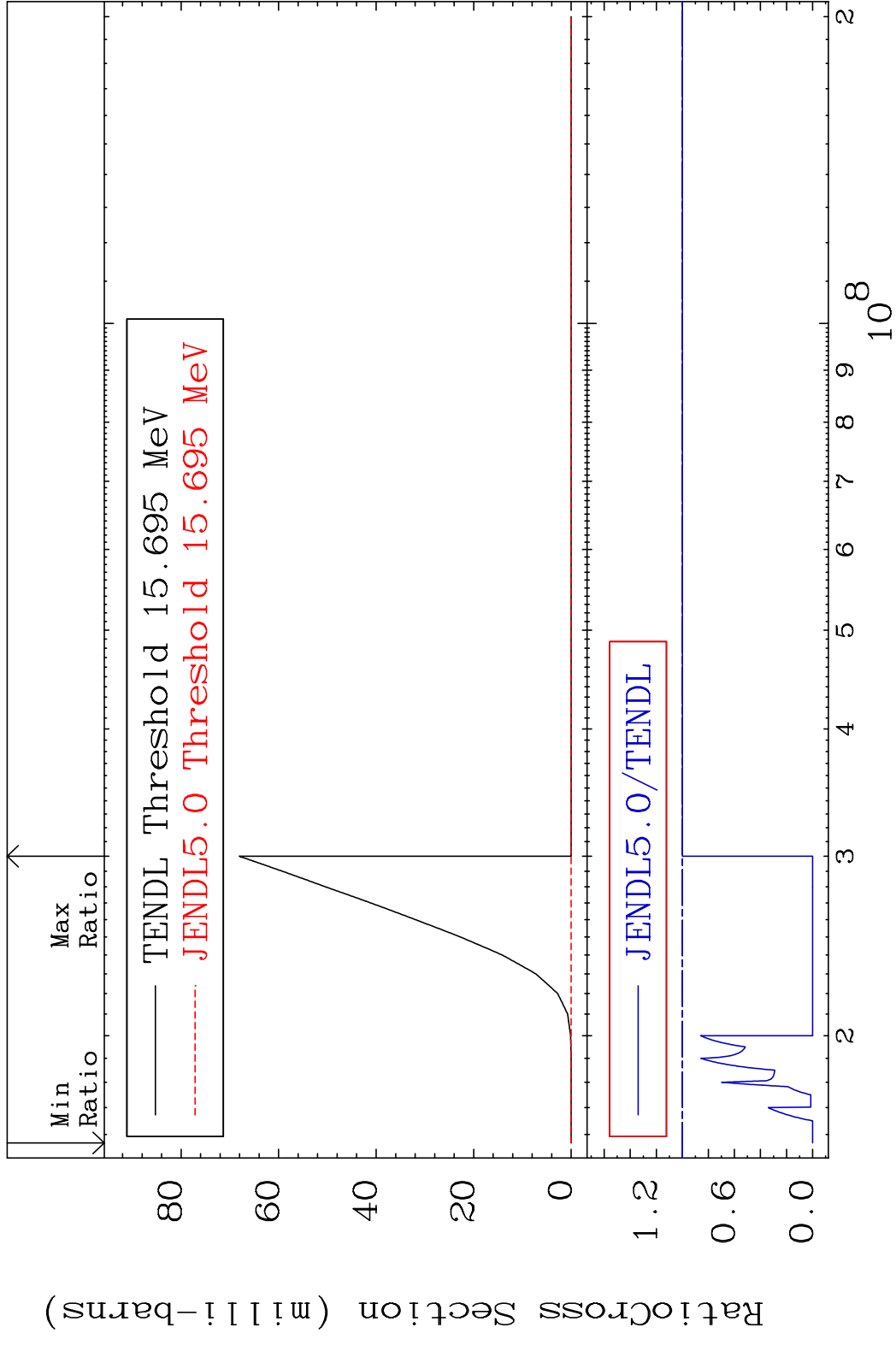




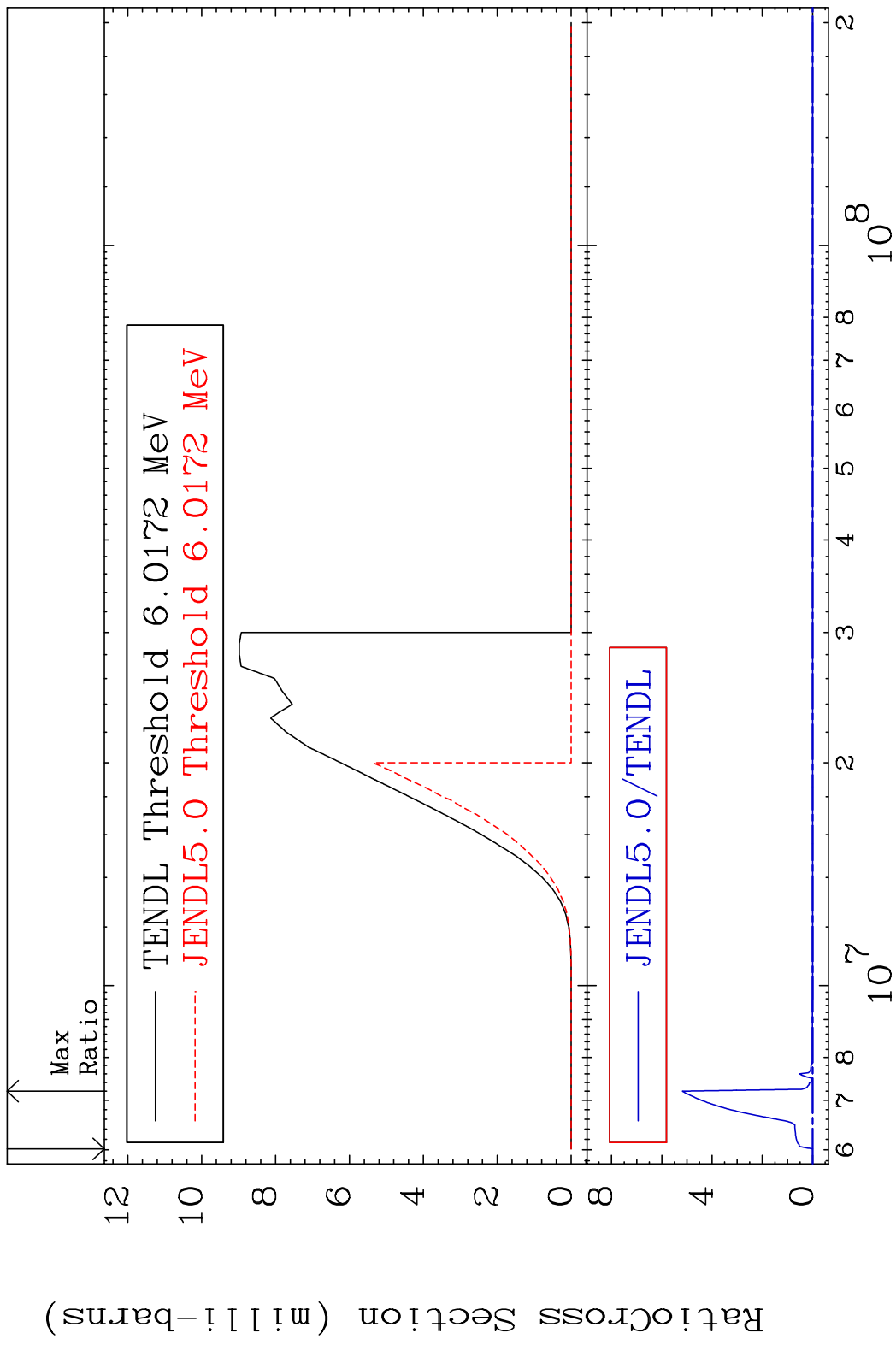
MAT 4834 (n,2n) p:47-Ag-107g 48-Cd-109
 Radionuclide Production Cross Section Ratio 34.25 %



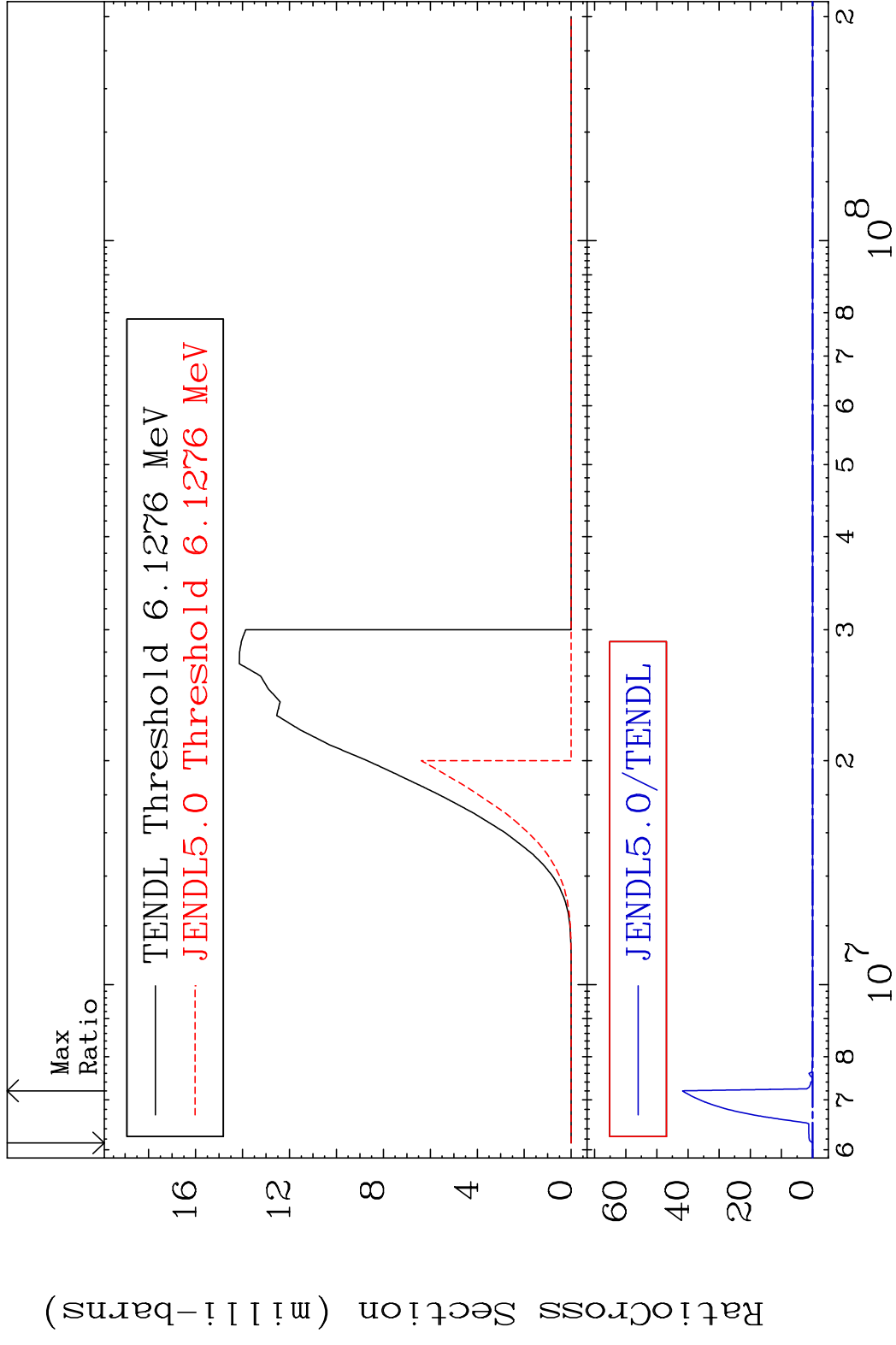
MAT 4834 (n,2n) p:47-Ag-107m1 48-Cd-109
 Radionuclide Production Cross Section Ratio 0.000 %



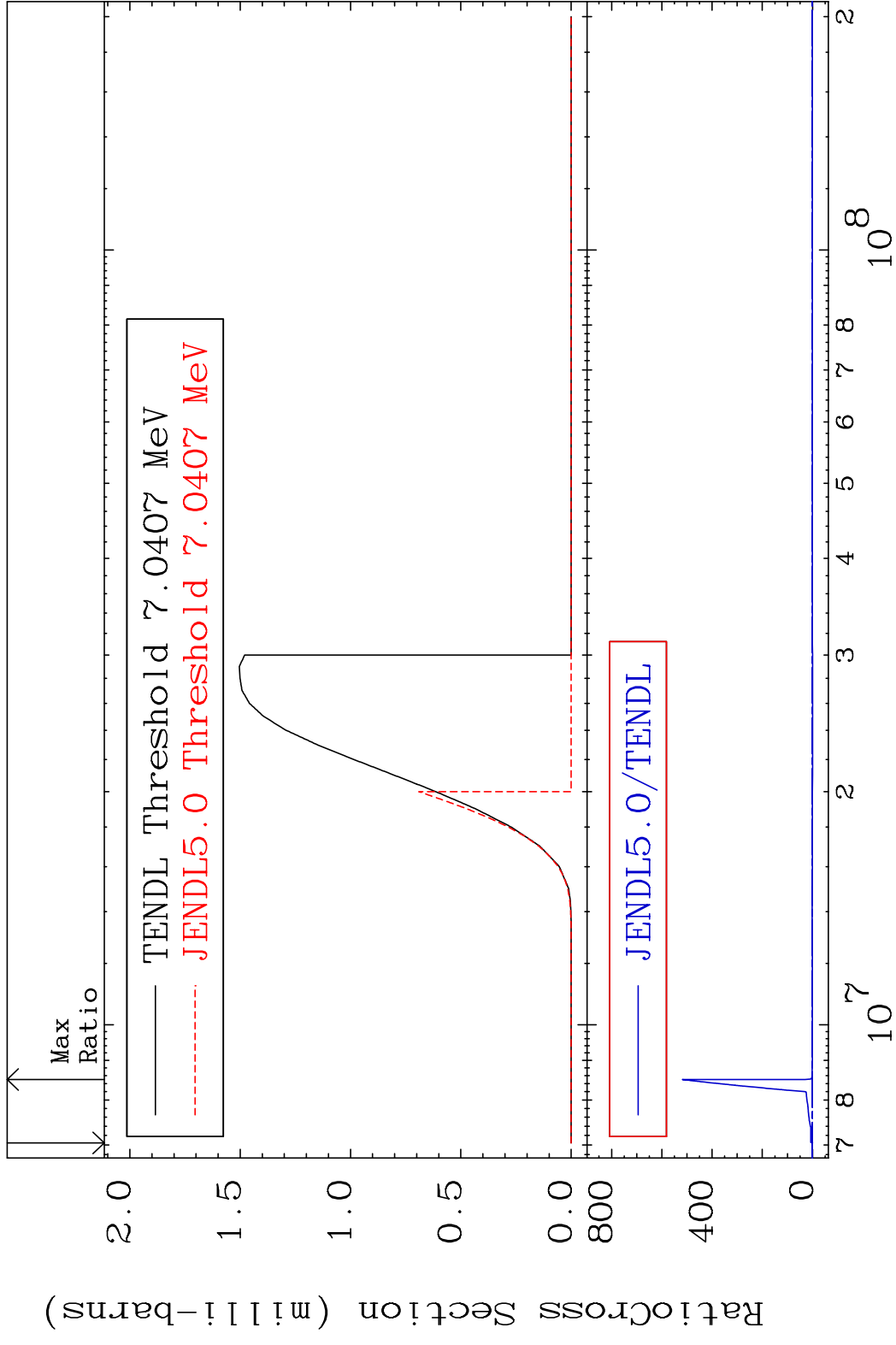
MAT 4834 (n,d):47-Ag-108g 48-Cd-109
 Radionuclide Production Cross Section Ratio 9999. %



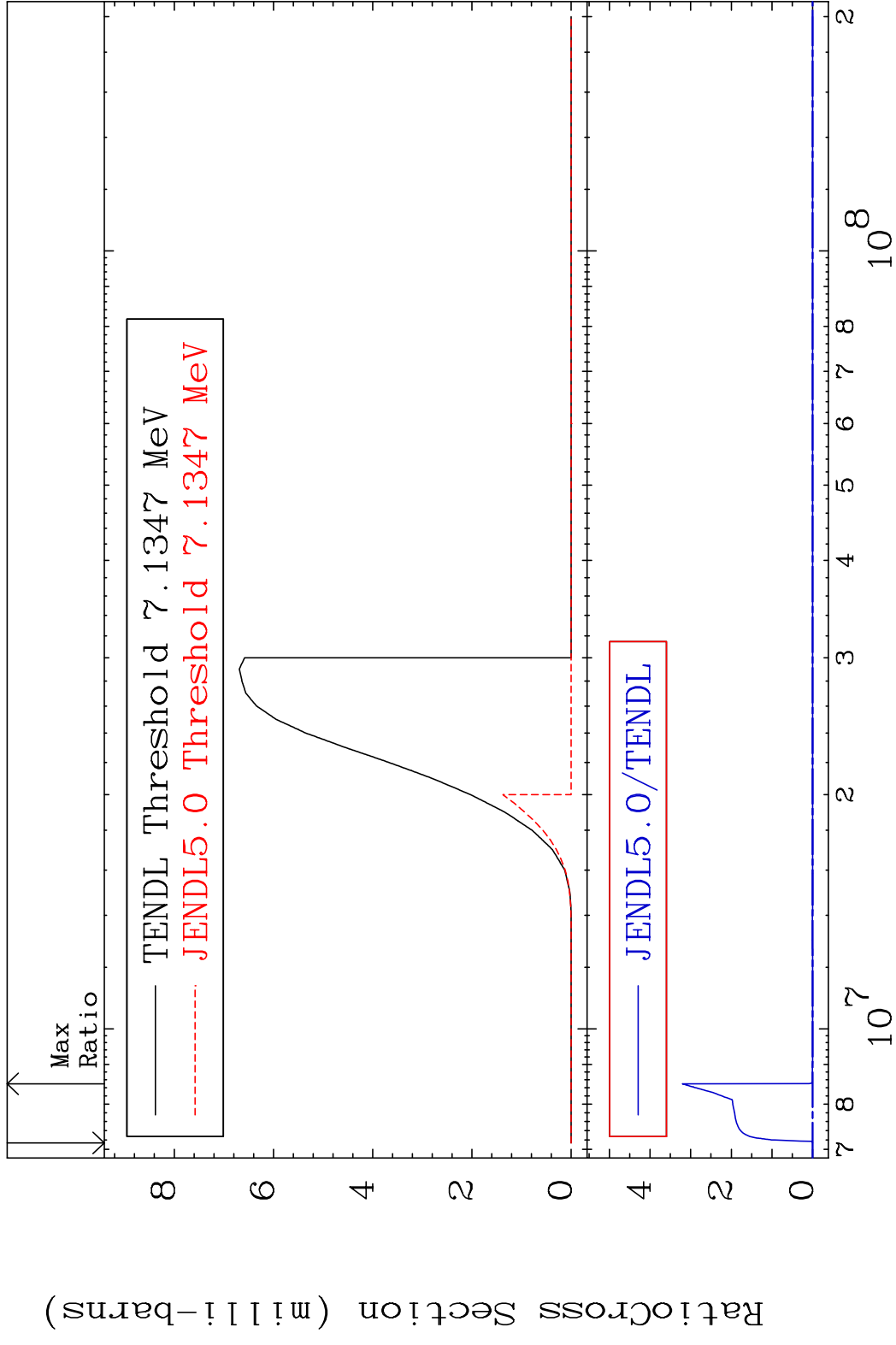
MAT 4834 (n, d): 47-Ag-108m2 48-Cd-109
 Radionuclide Production Cross Section 100.00 %
 100.00 %



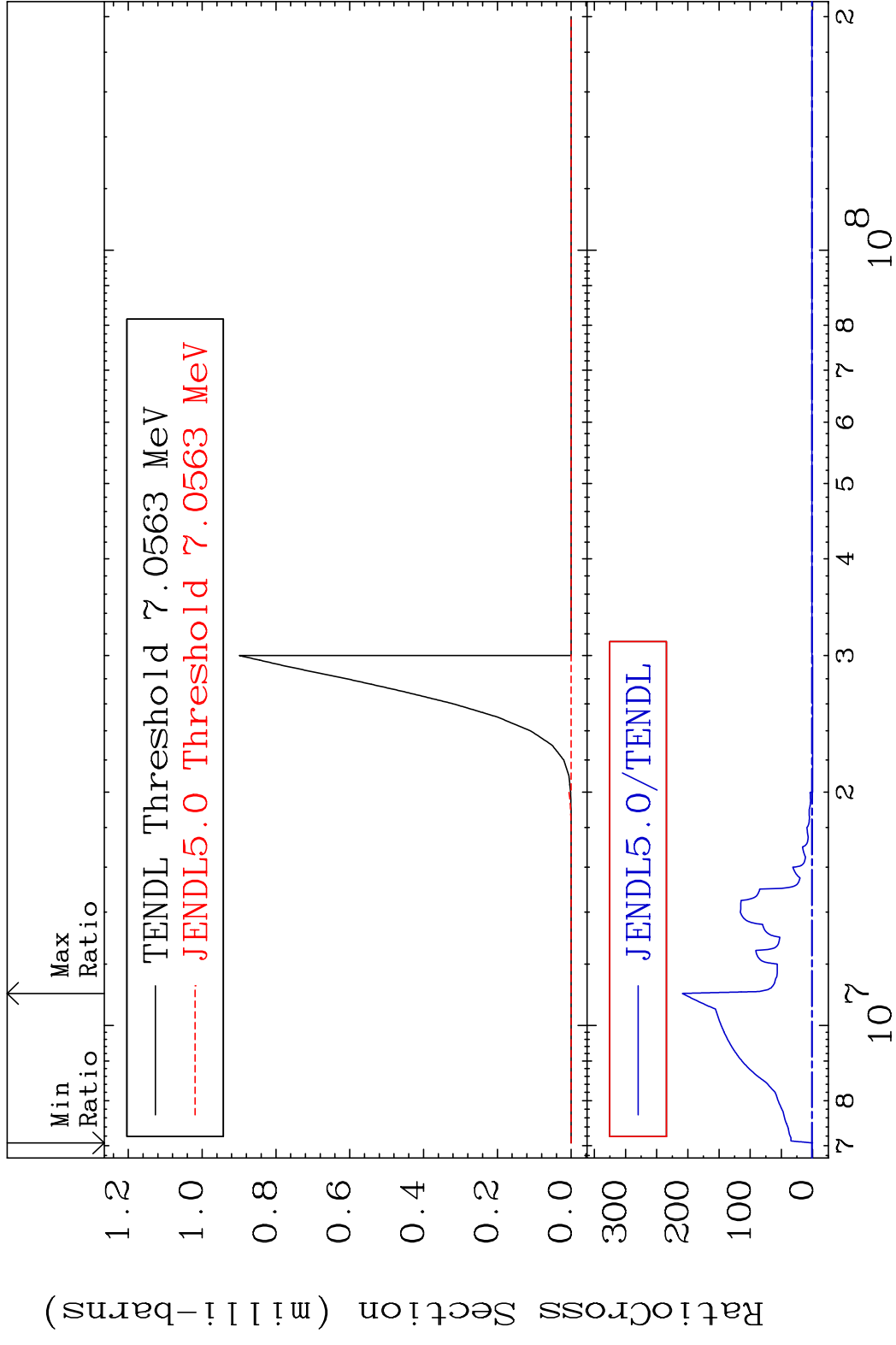
MAT 4834 (n,t):47-Ag-107g 48-Cd-109
 Radionuclide Production Cross Section Ratio

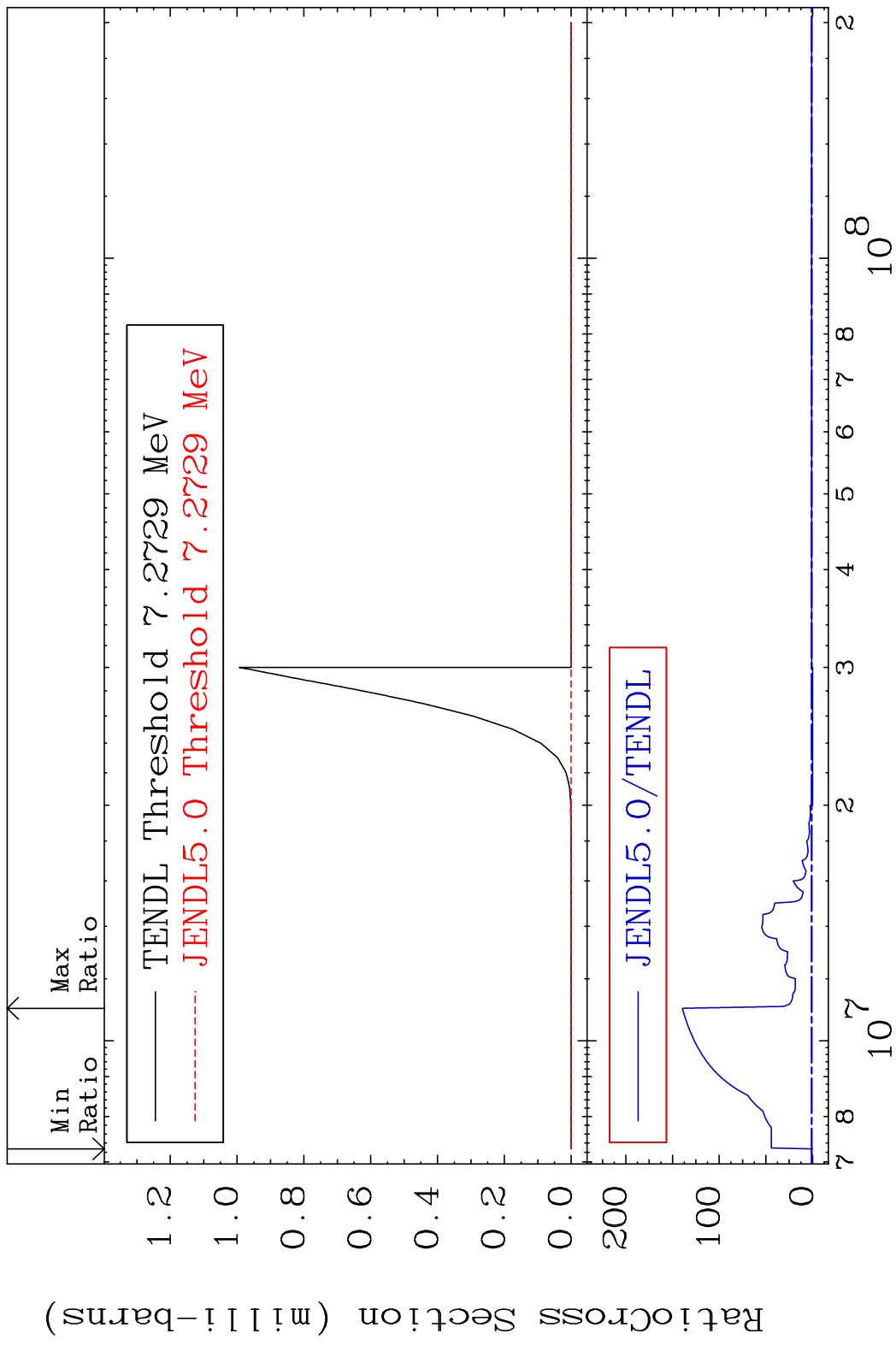


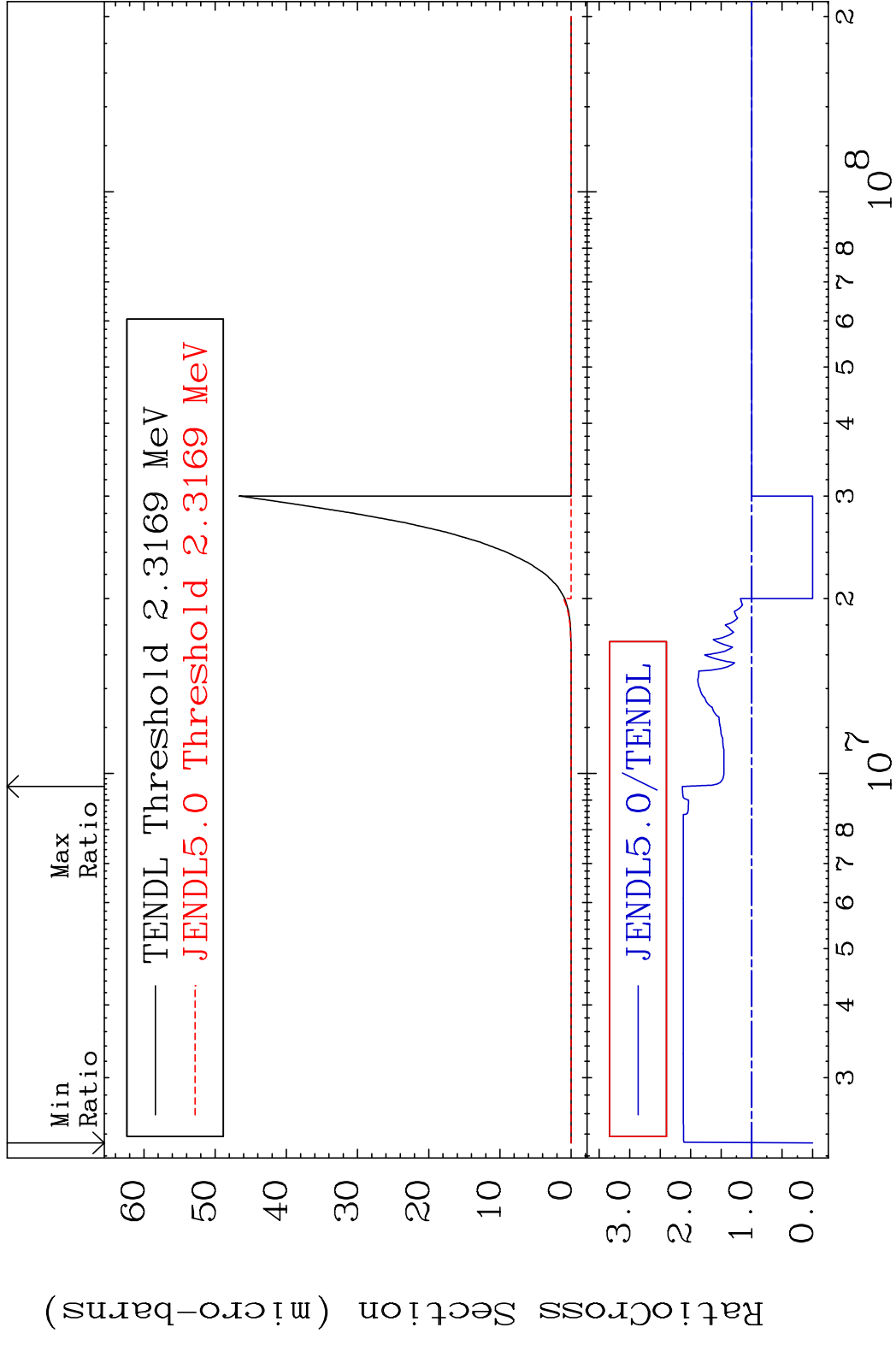
MAT 4834 (n, t): 47-Ag-107m1 48-Cd-109
 Radionuclide Production Cross Section Ratio 9999. %



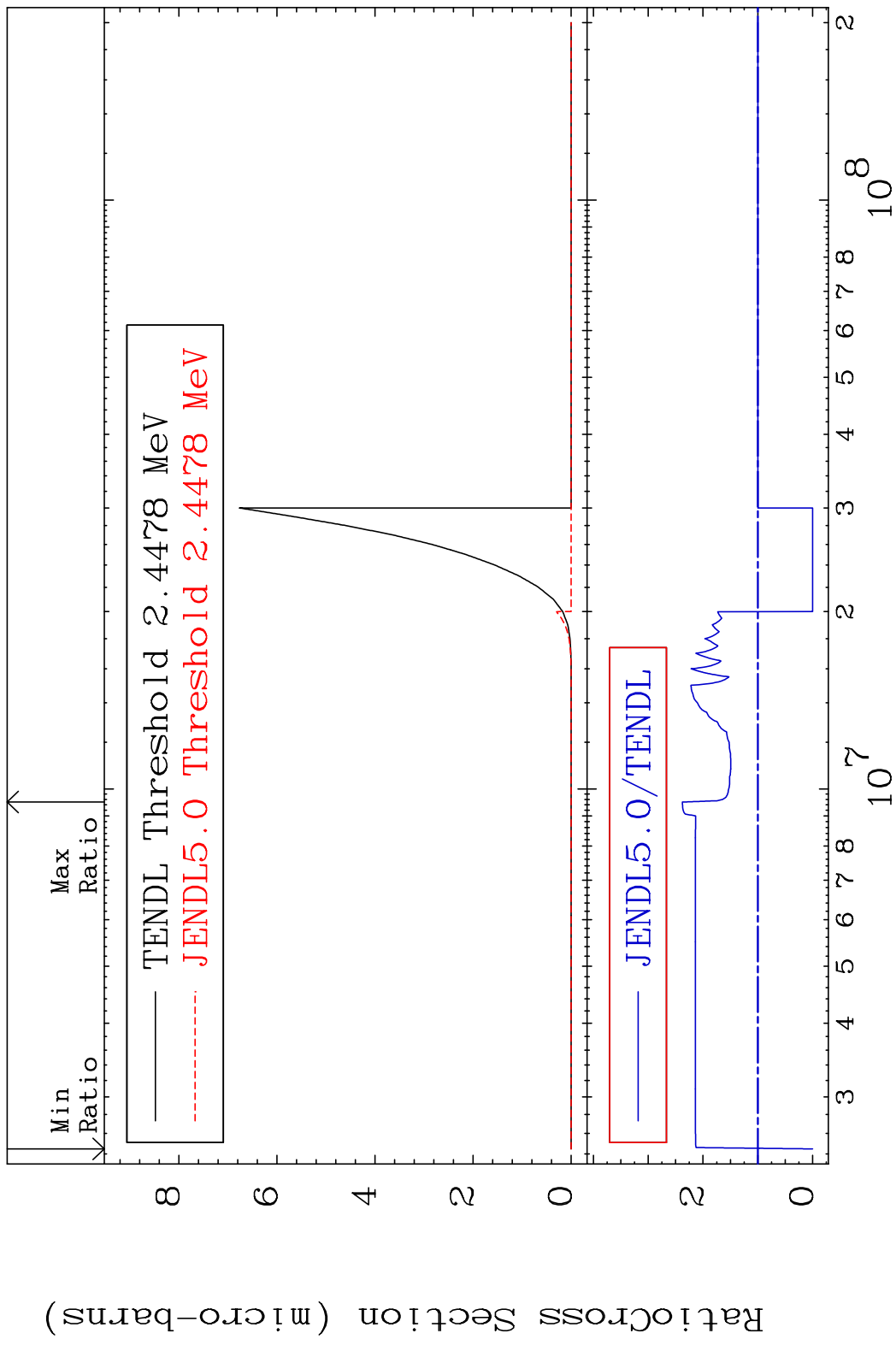
64 Incident Energy (eV) 48-Cd-109



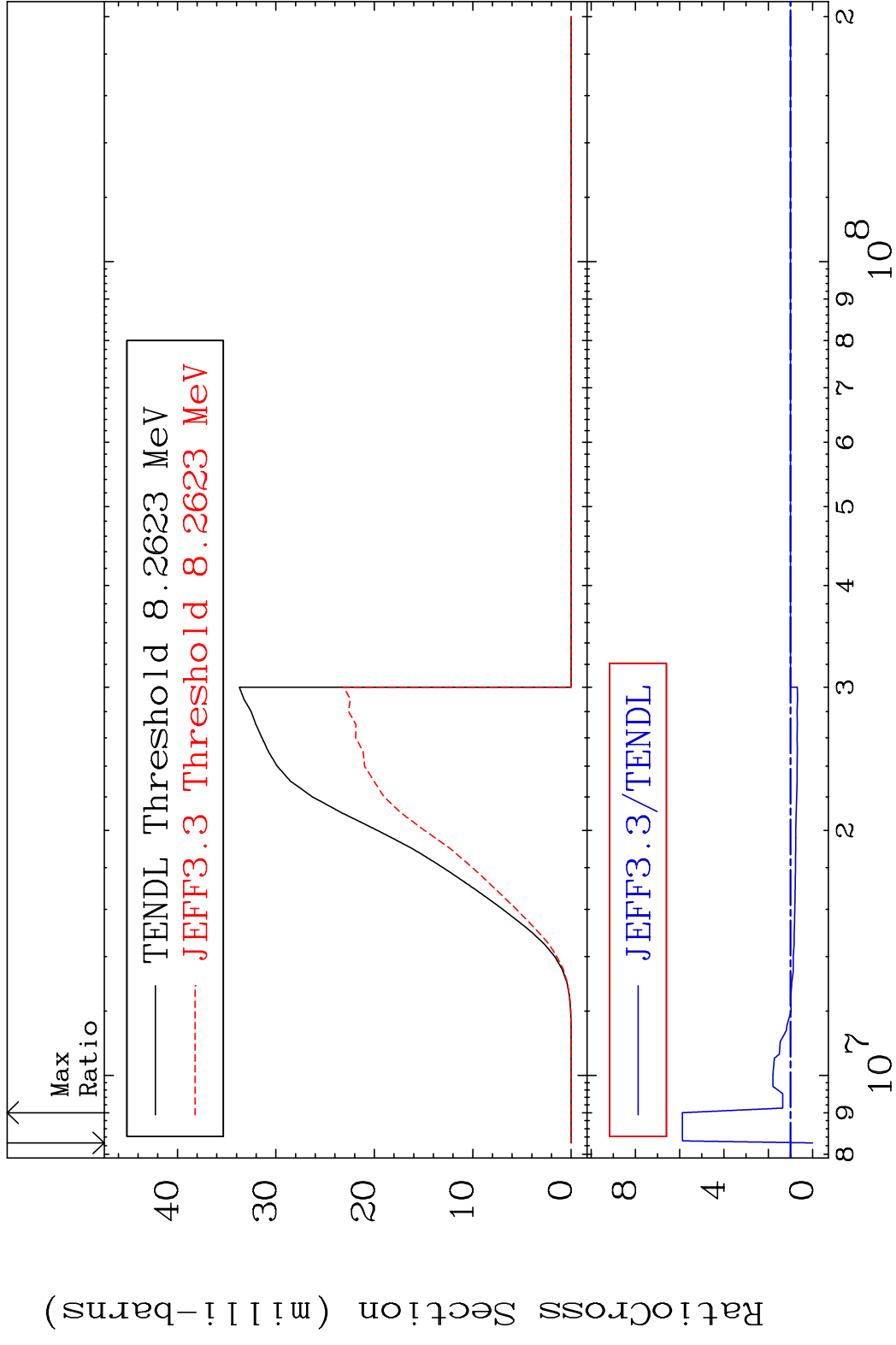


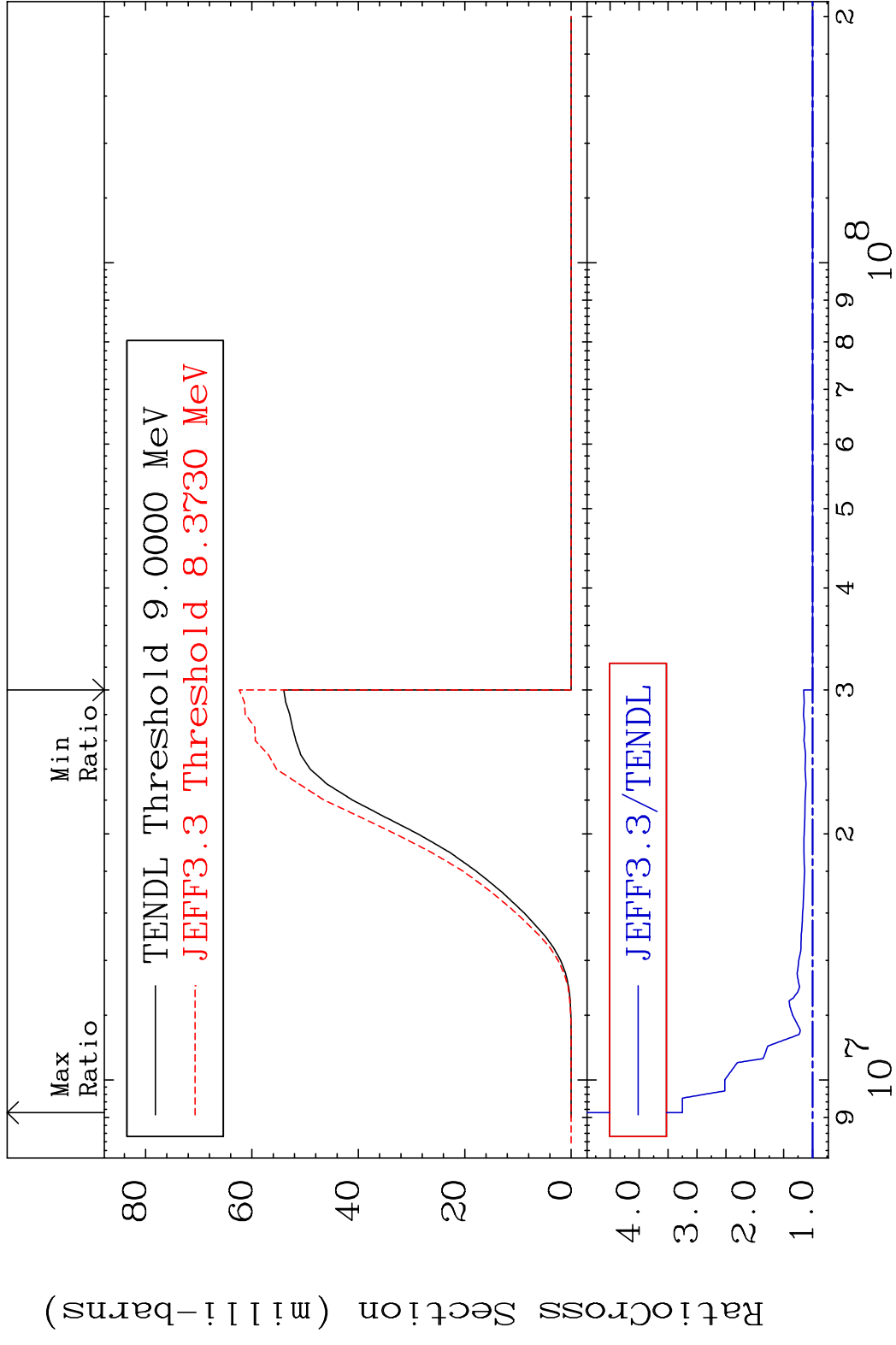


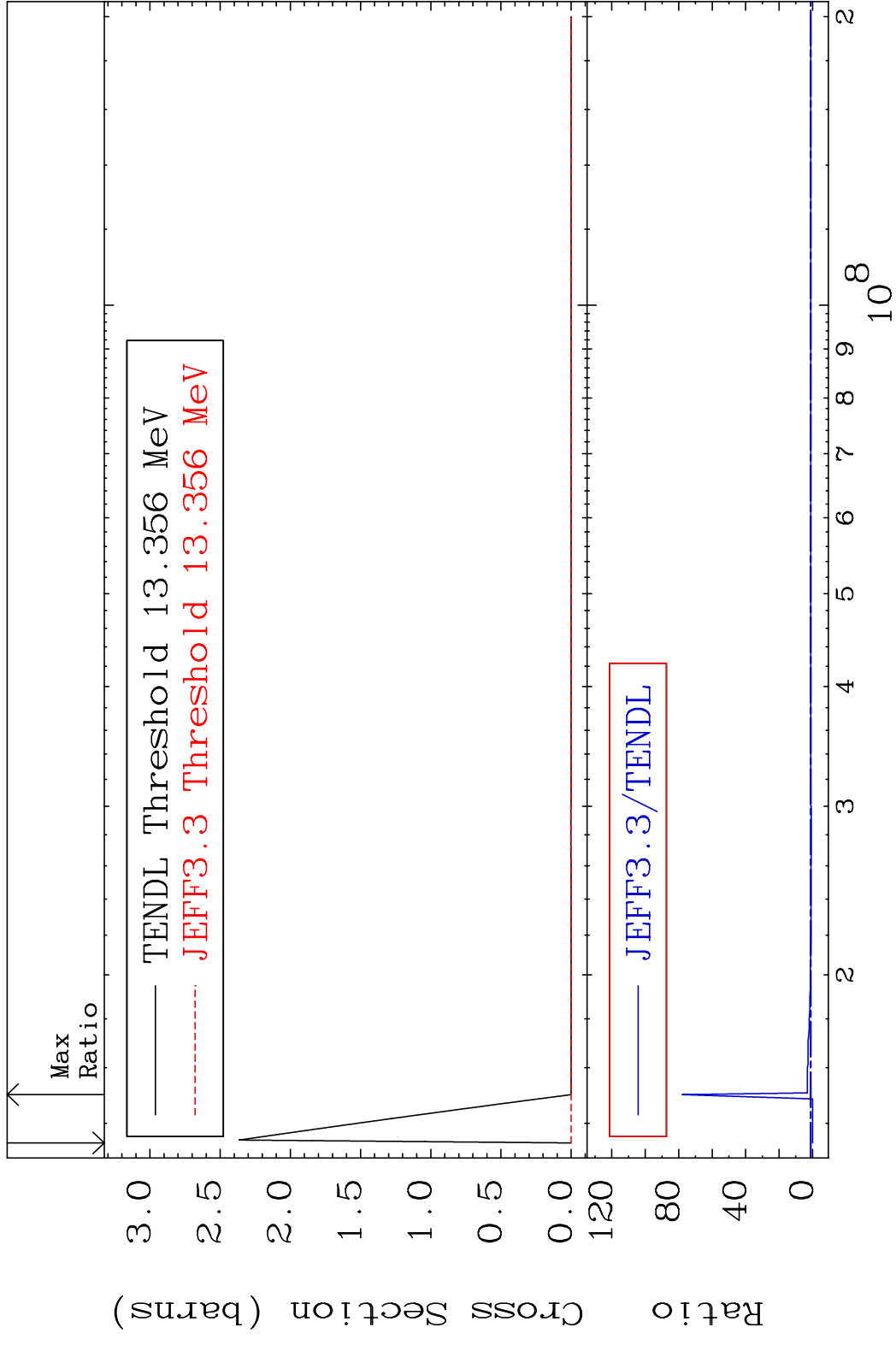
MAT 4834 (n, p) α : 45-Rh-105m1 48-Cd-109
 Radionuclide Production Cross Section 130.0 dth 137.7 %

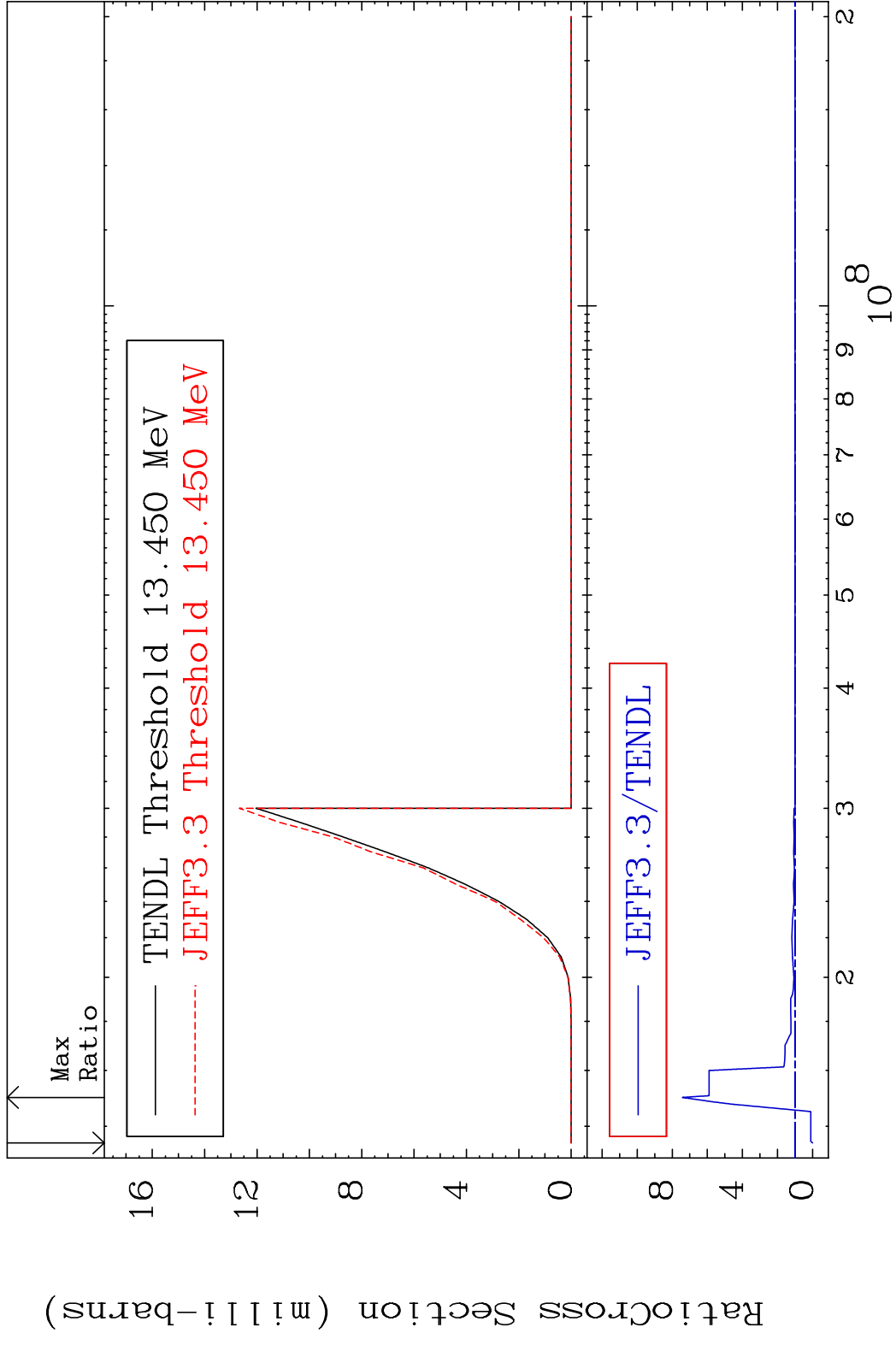


MAT 4834 (n, n') p:47-Ag-108g 48-Cd-109
 Radionuclide Production Cross Section 180.0 mb 487.8 %

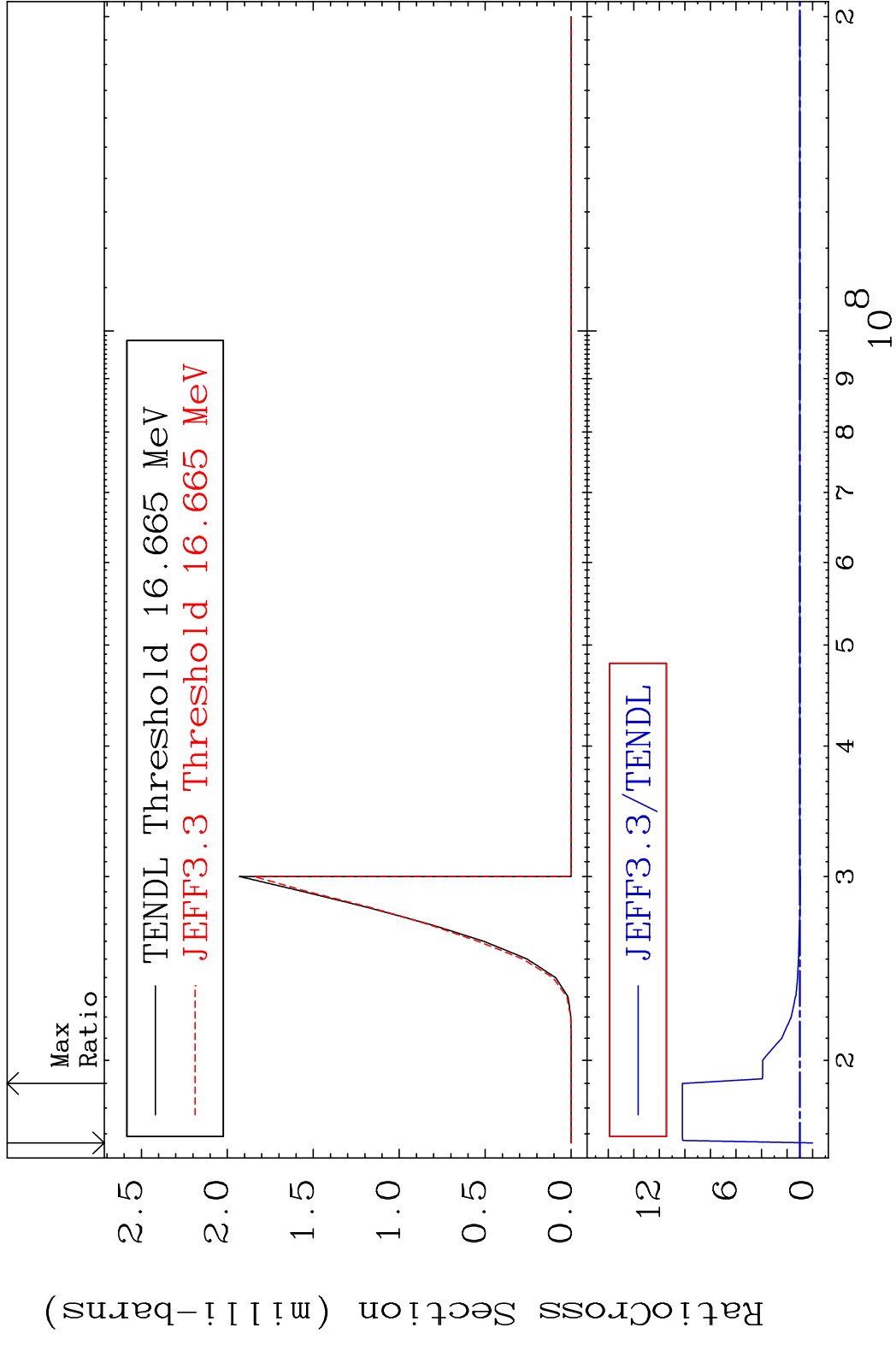




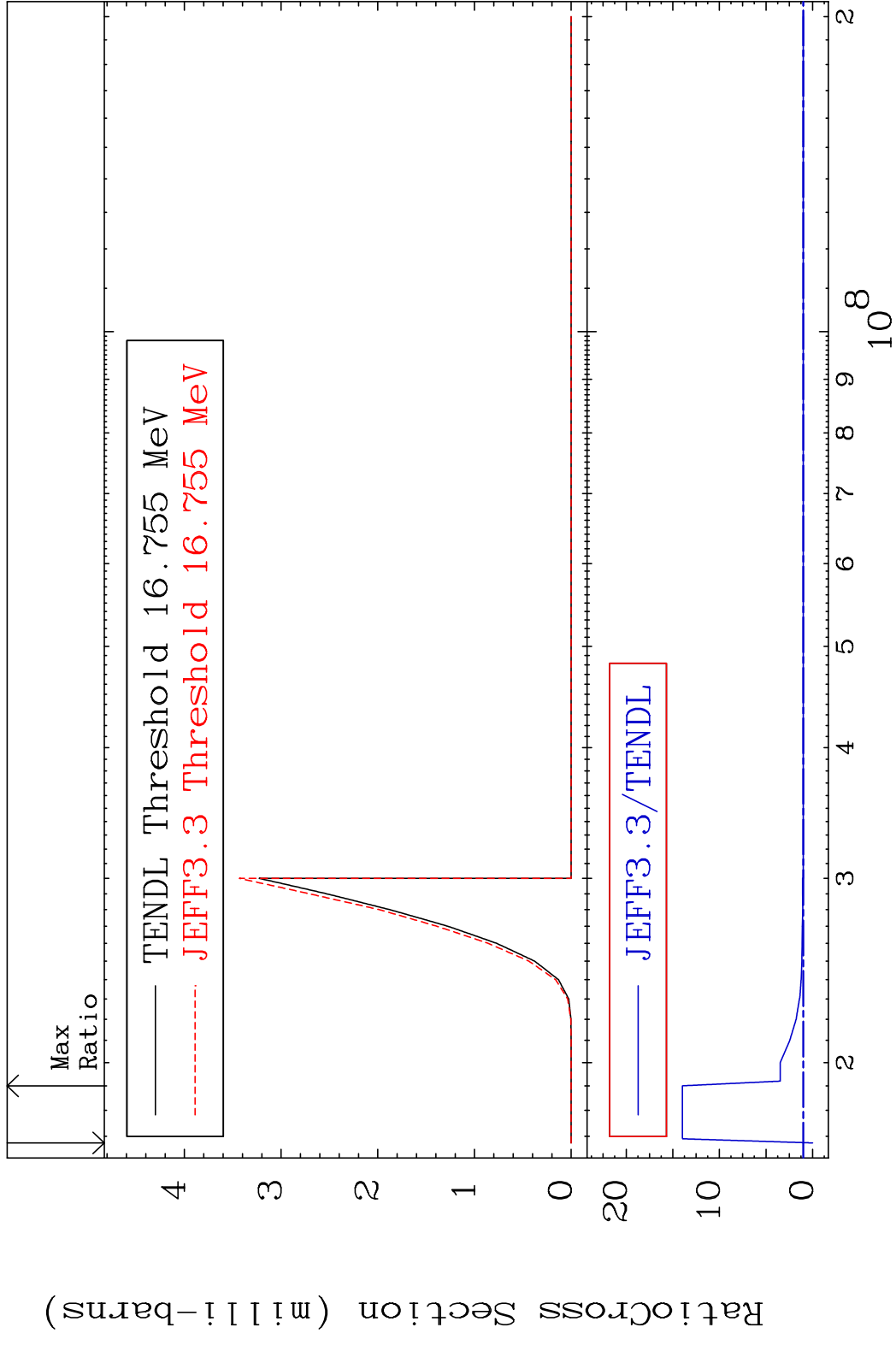


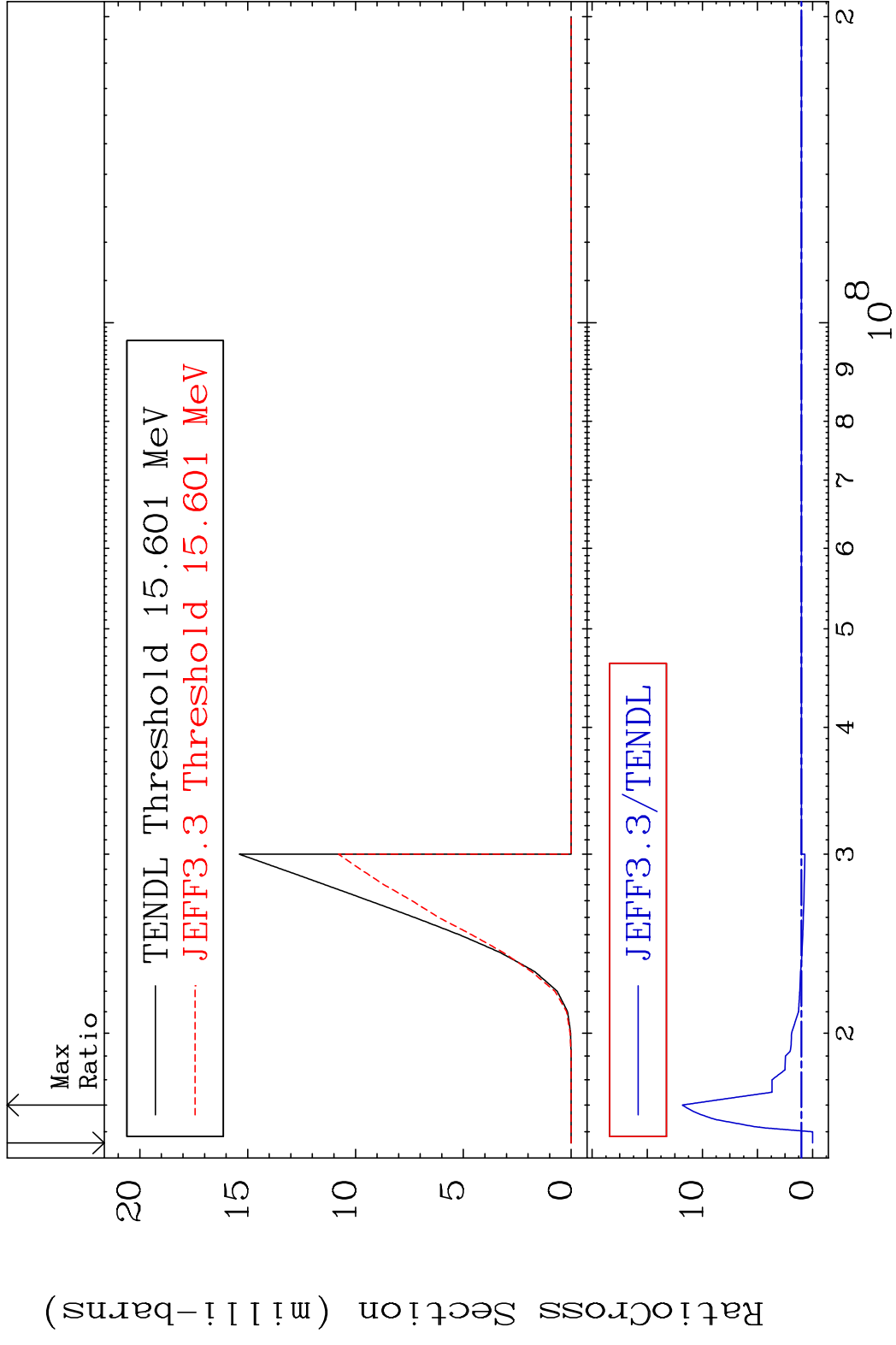


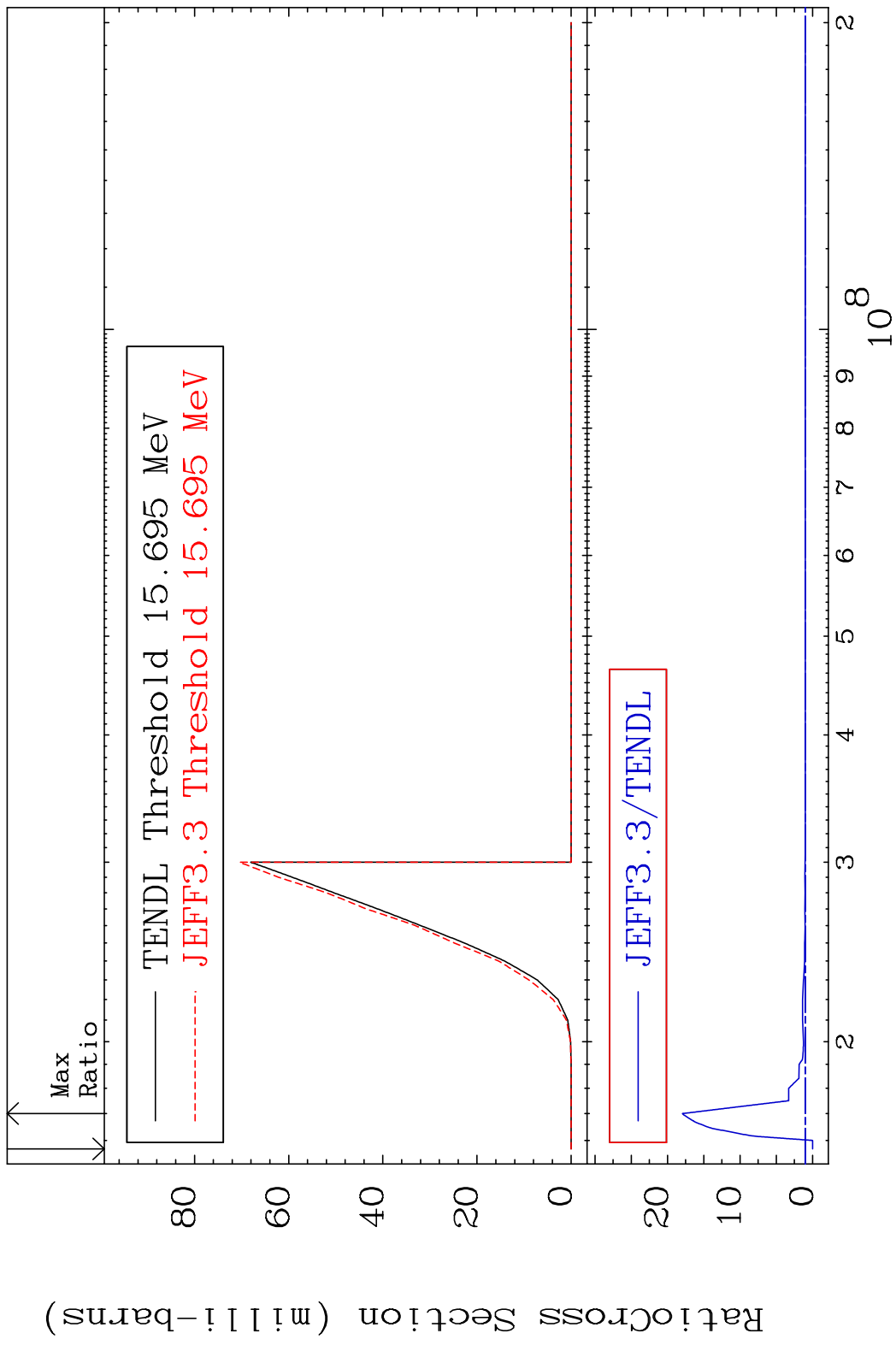
MAT 4834 (n, n') t:47-Ag-106g 48-Cd-109
 Radionuclide Production Cross Section Ratio 919.8 %

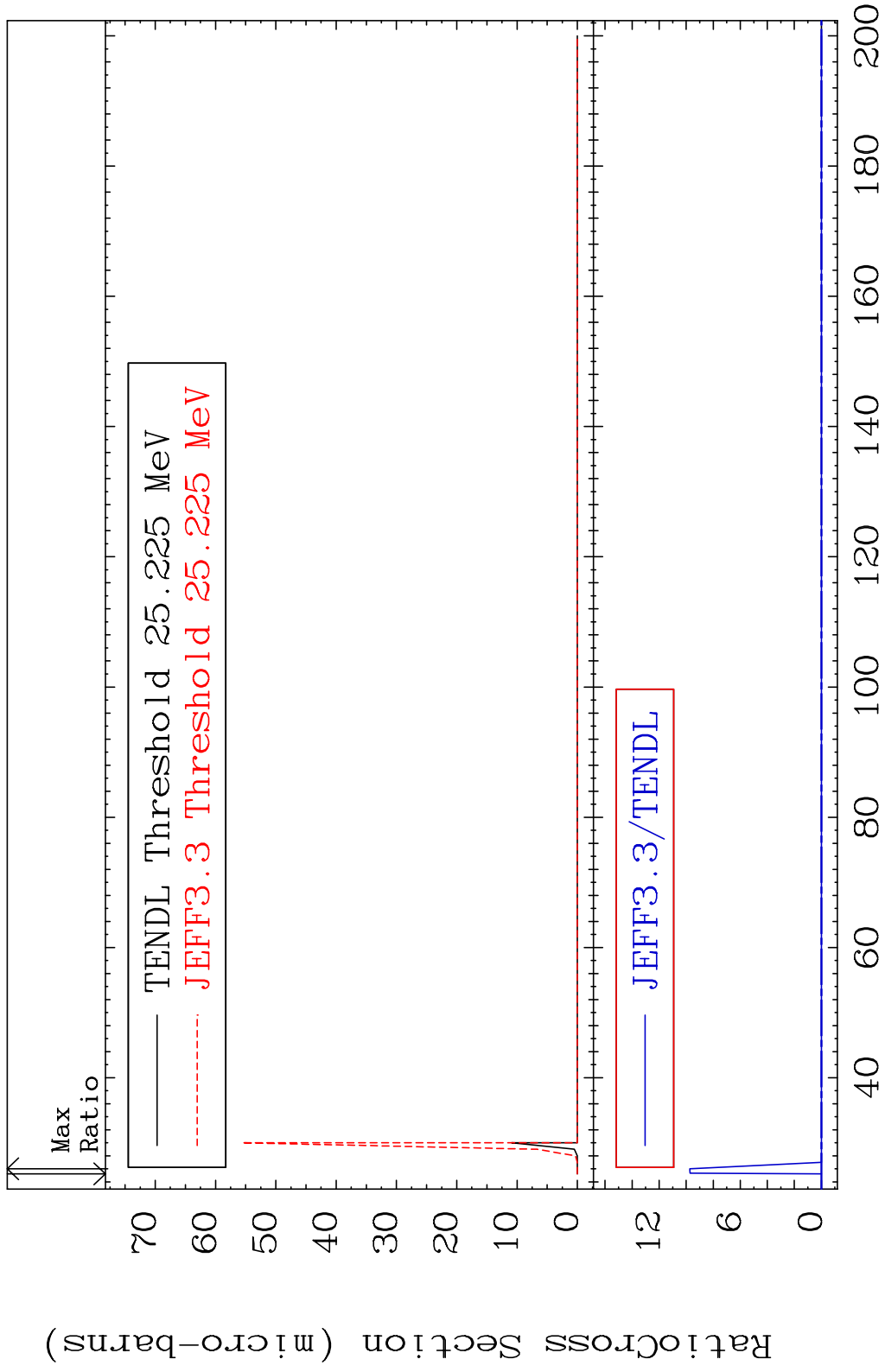


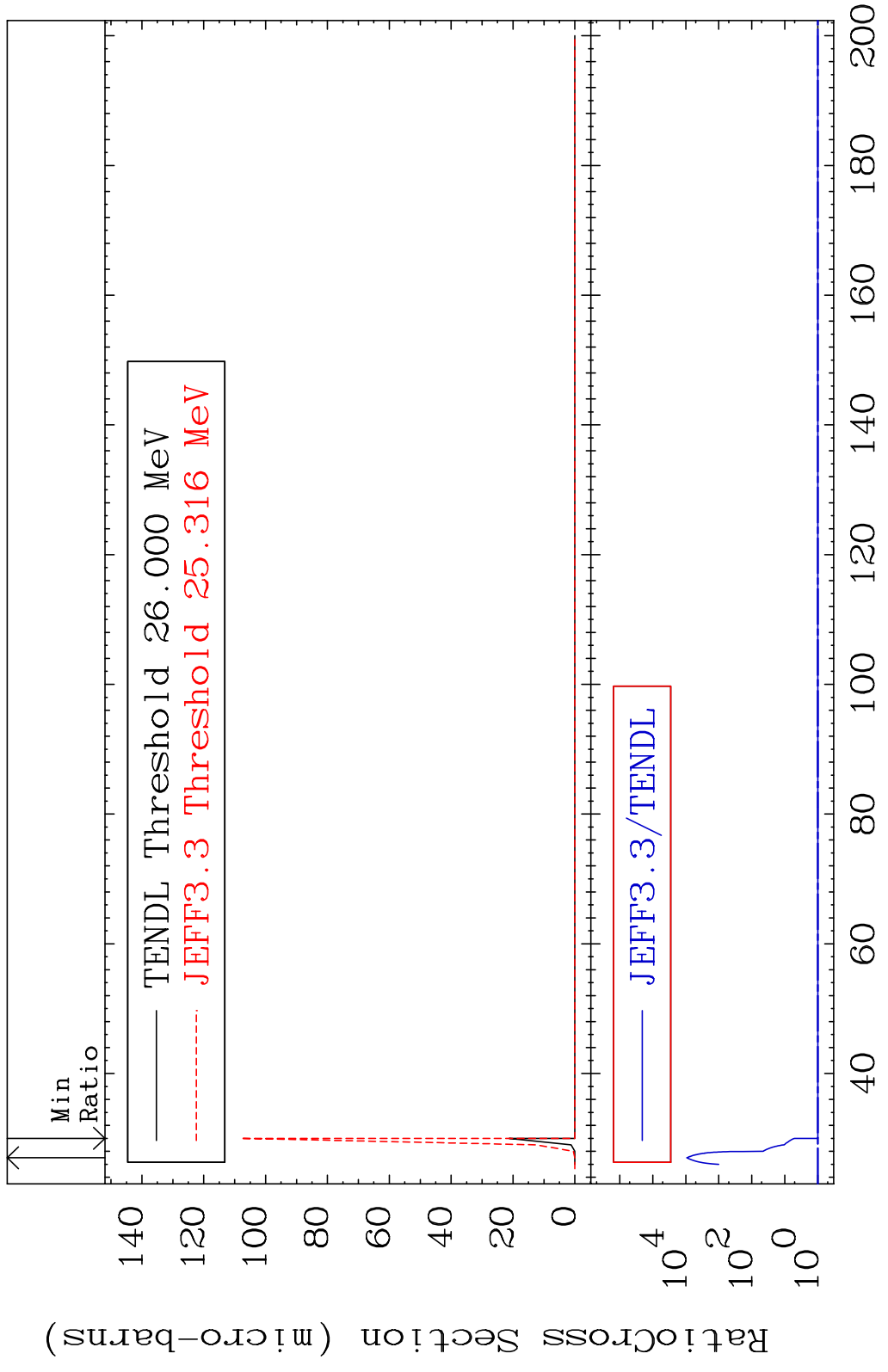
MAT 4834 (n, n') t:47-Ag-106m1 48-Cd-109
 Radionuclide Production Cross Section Ratio 1298. %



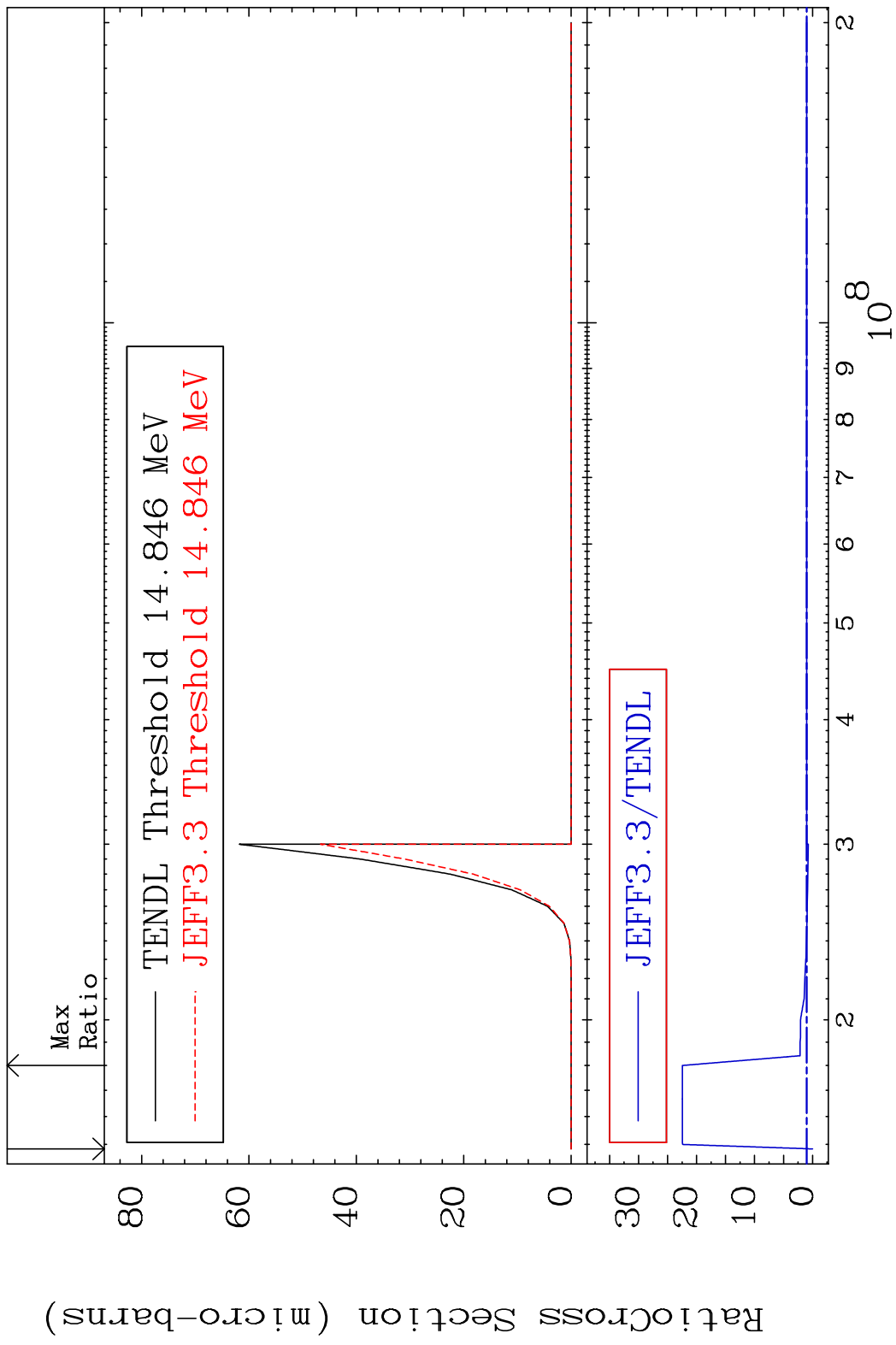


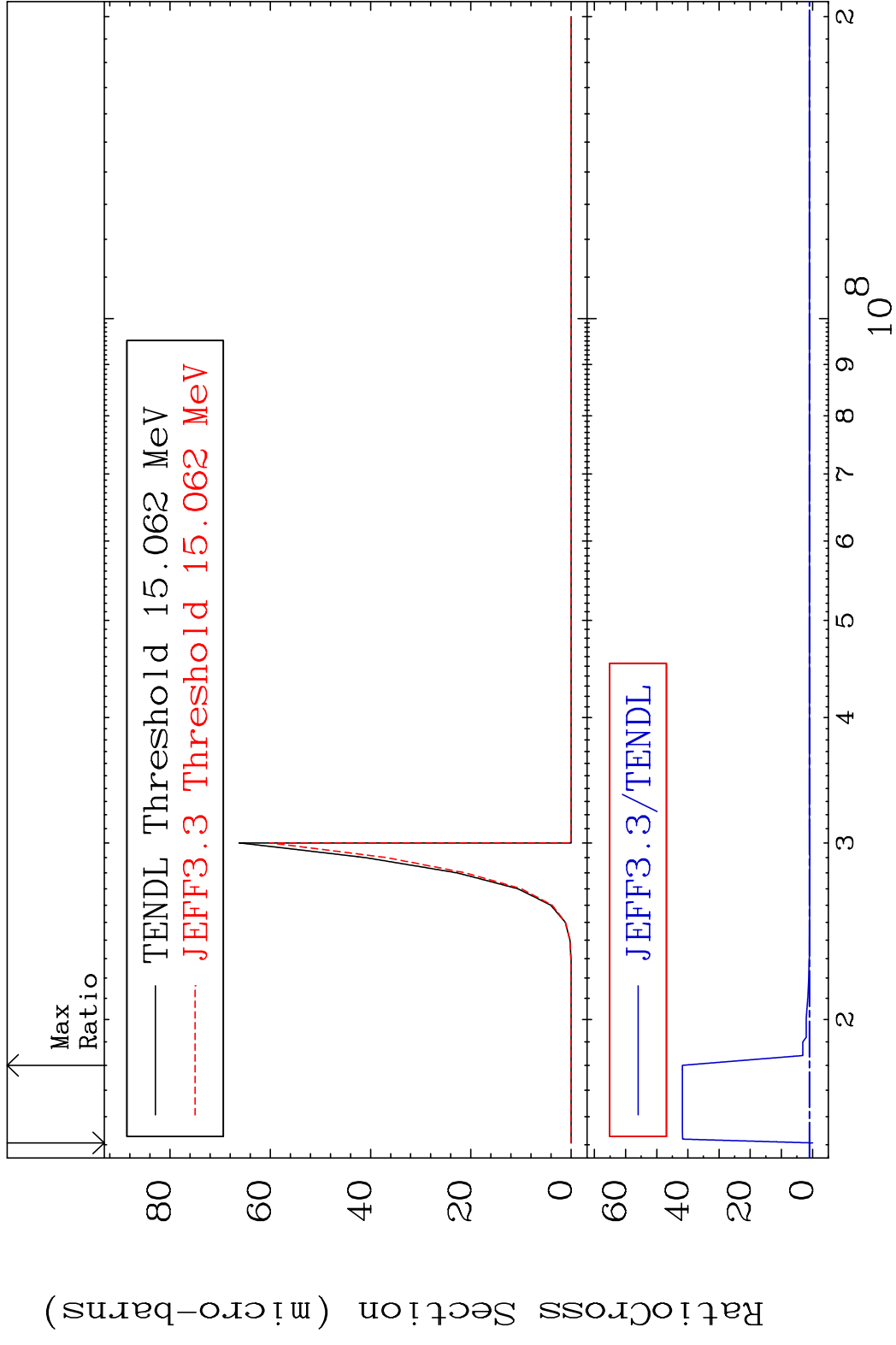


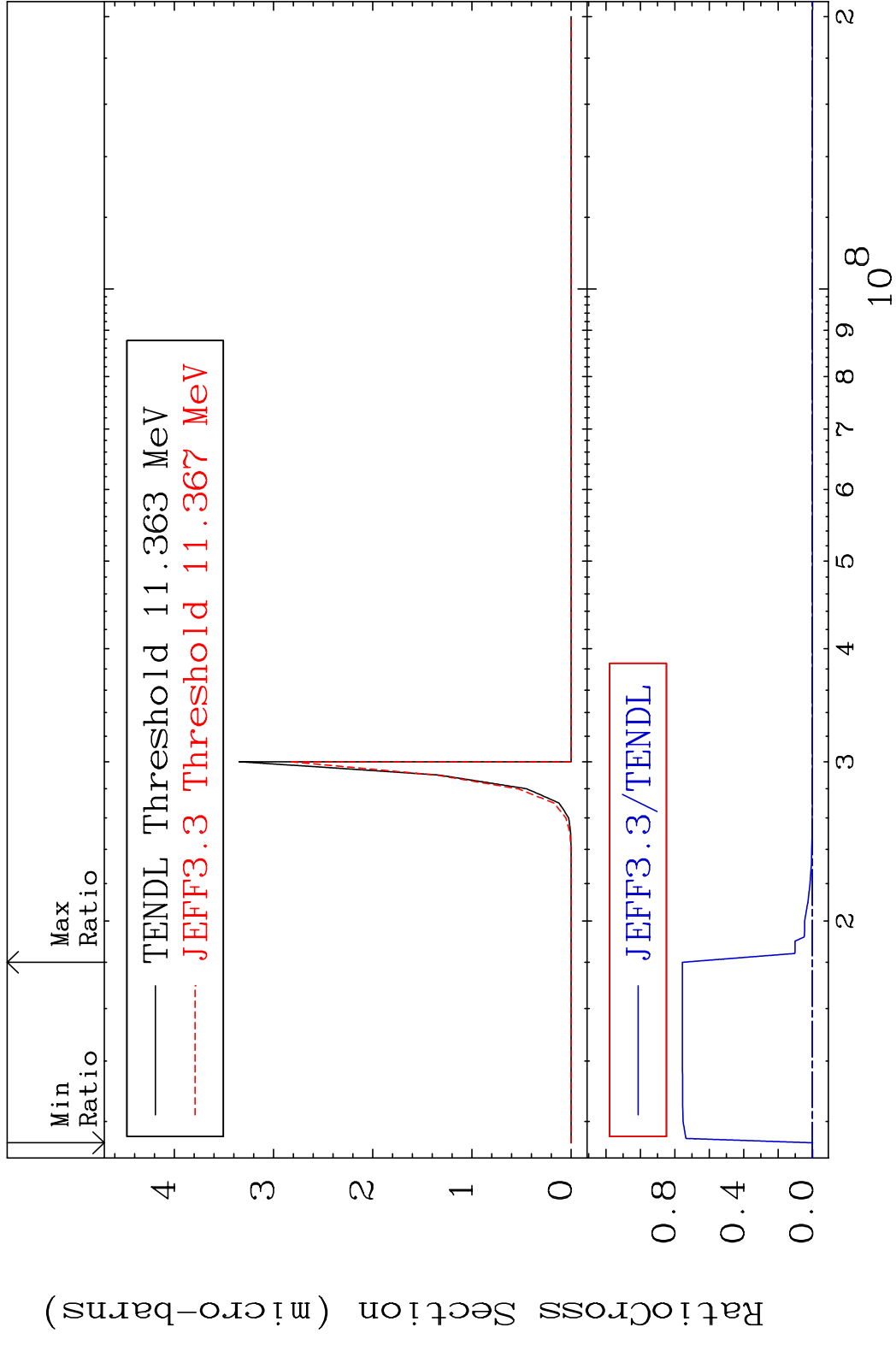


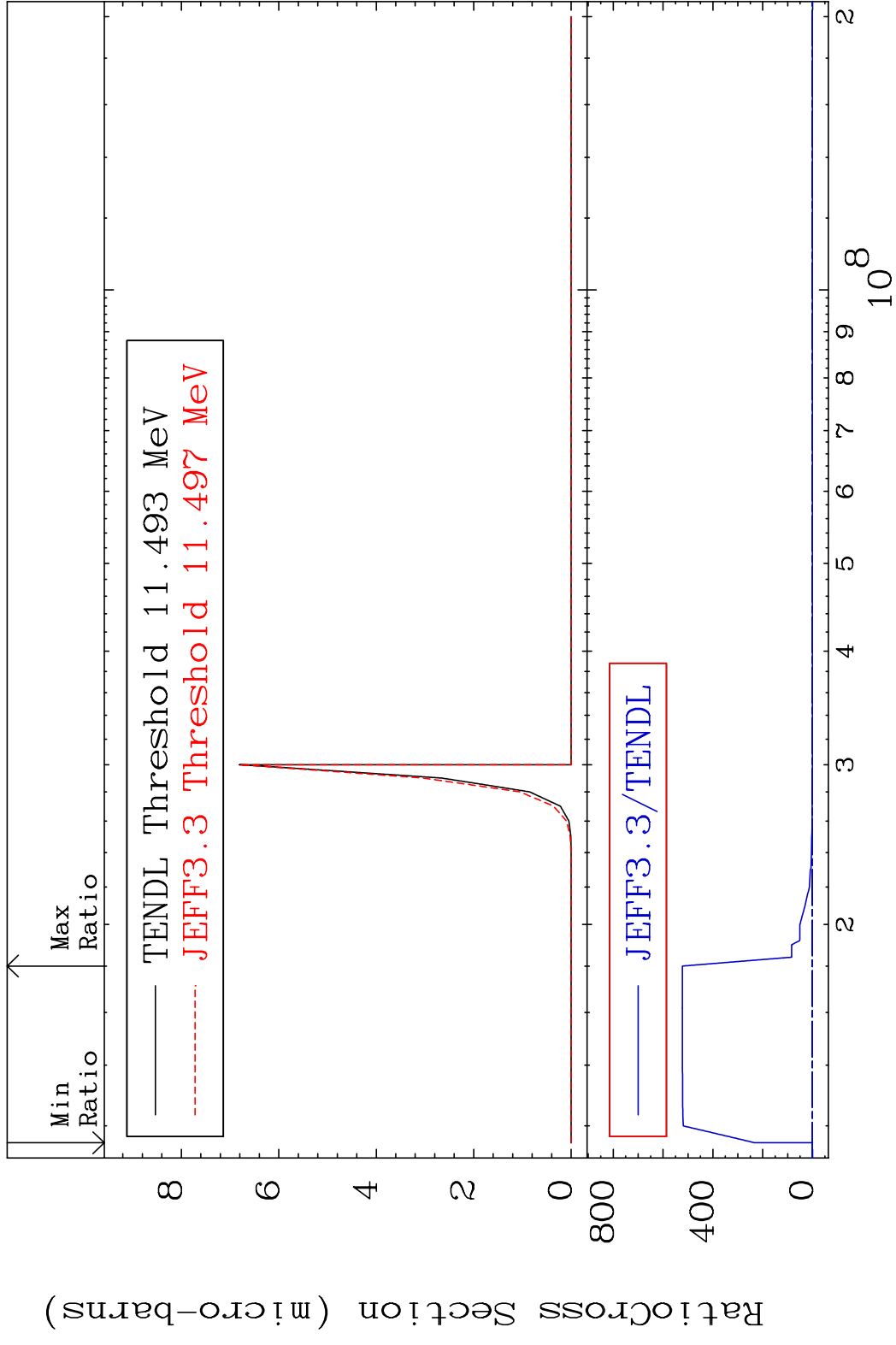


MAT 4834 (n,2n) p:46-Pd-107g 48-Cd-109
 Radionuclide Production Cross Section Ratio 2145. %

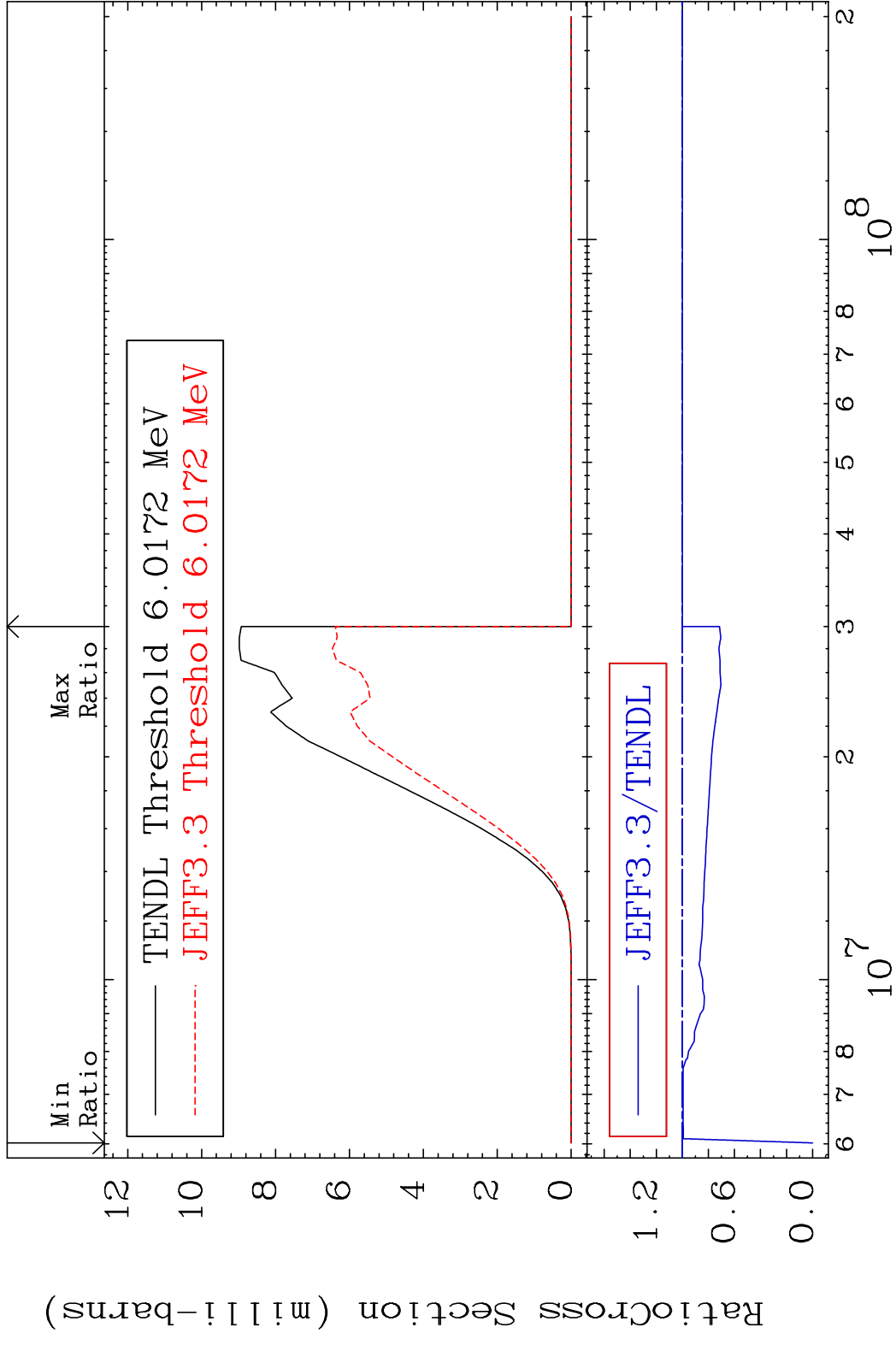




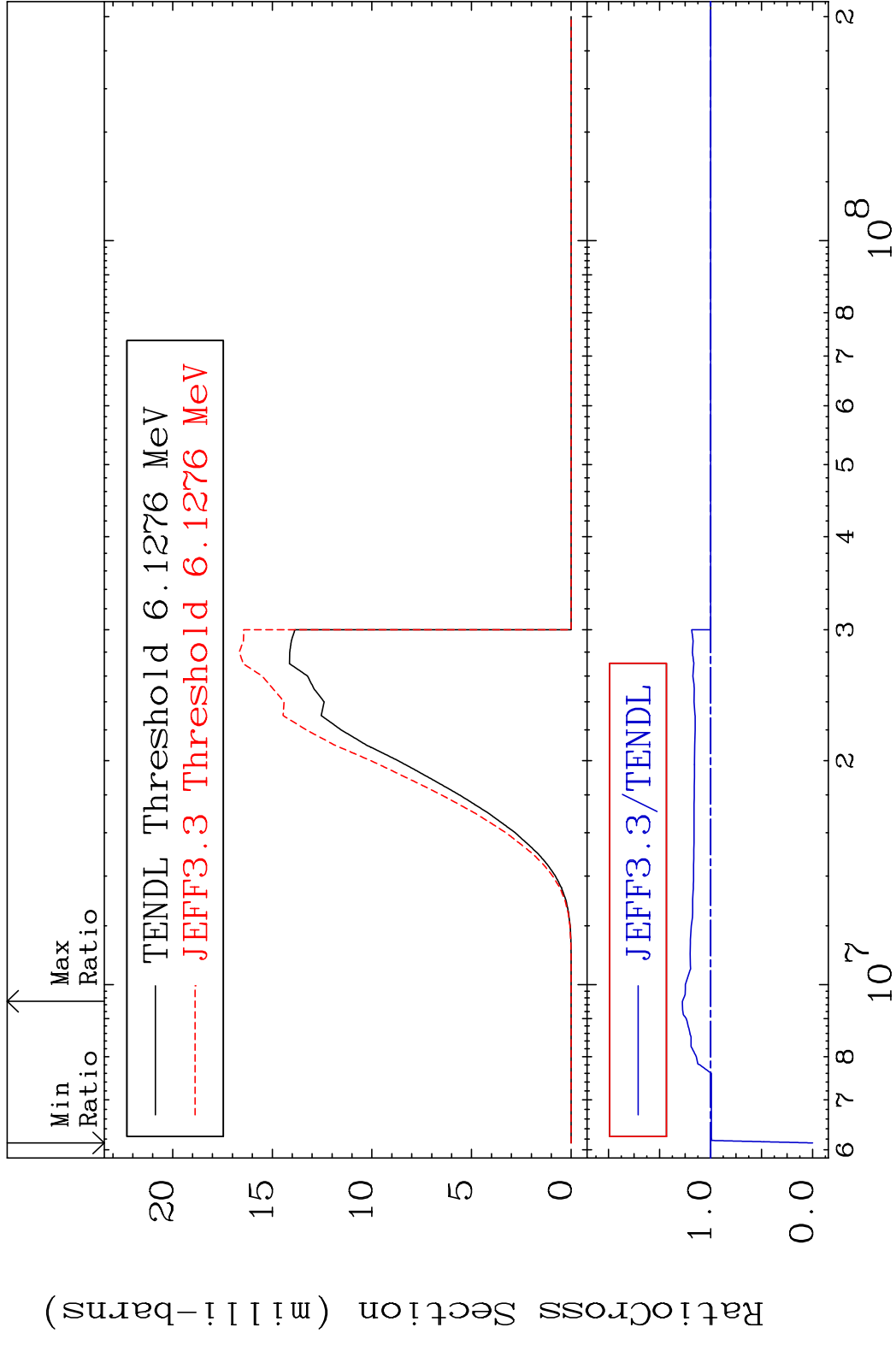




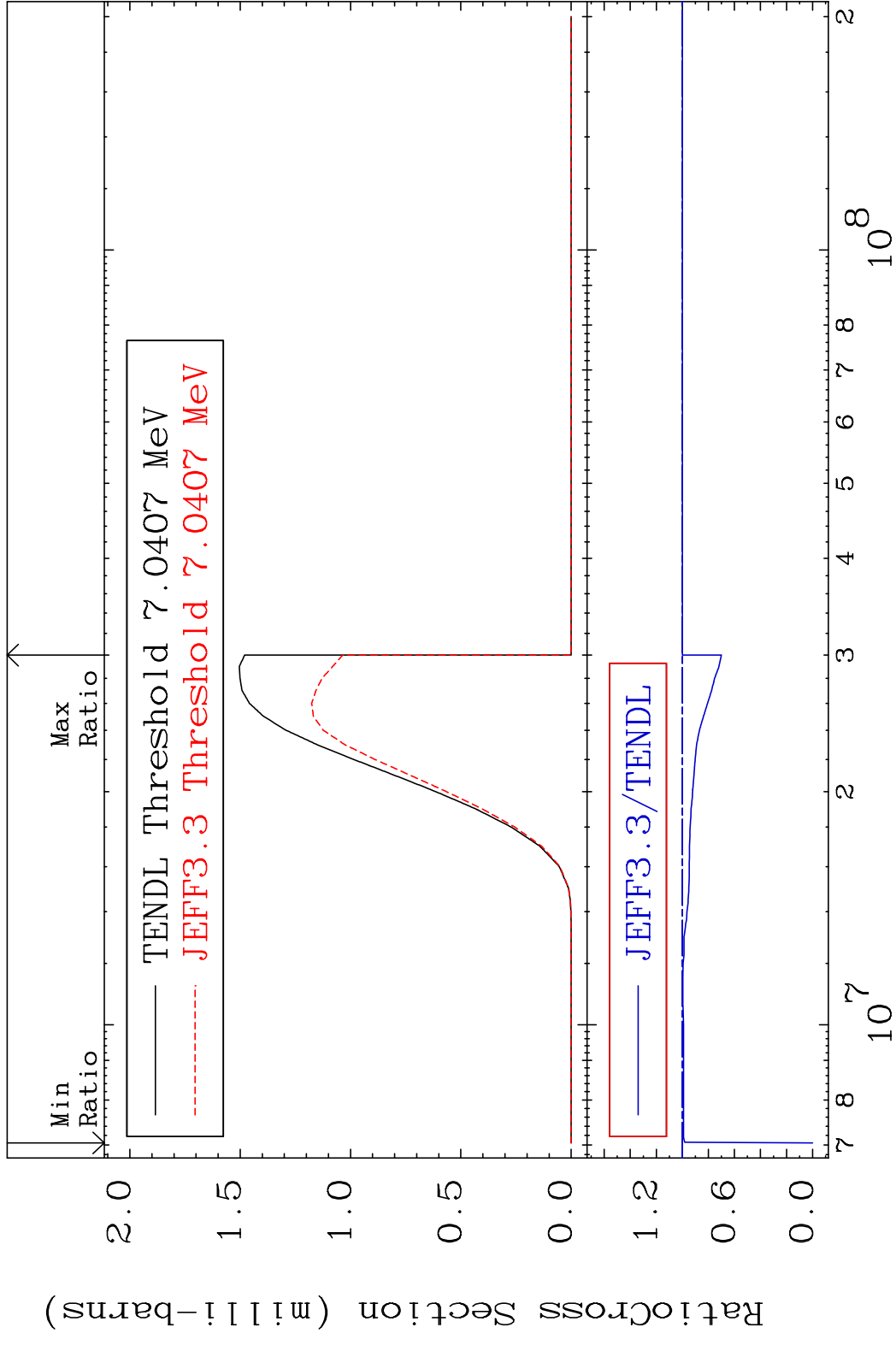
MAT 4834 (n, d) : 47-Ag-108g 48-Cd-109
 Radionuclide Production Cross Section Ratio 0.000 %



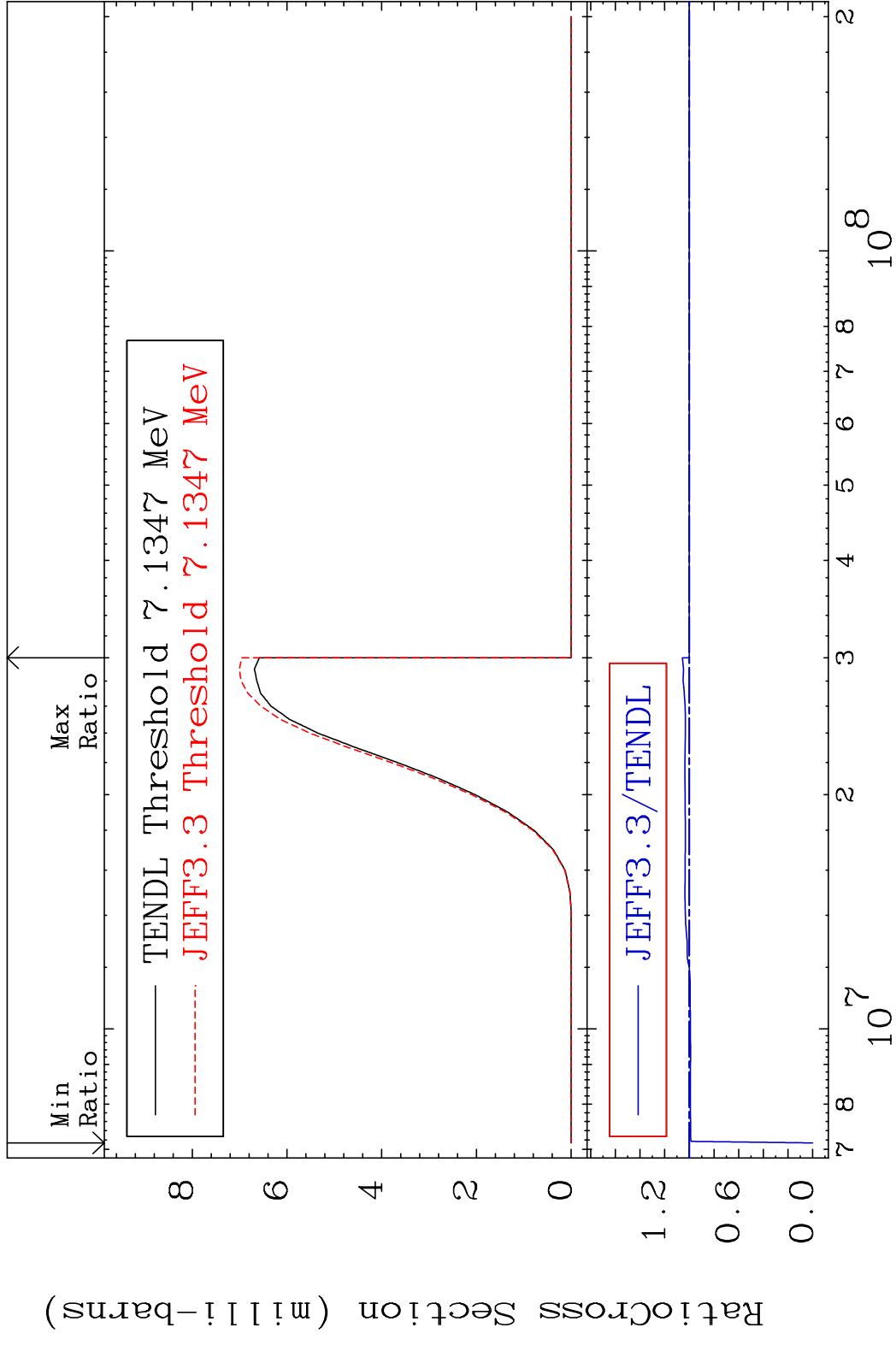
MAT 4834 (n,d):47-Ag-108m2 48-Cd-109
 Radionuclide Production Cross Section 180.0 mb 27.67 %

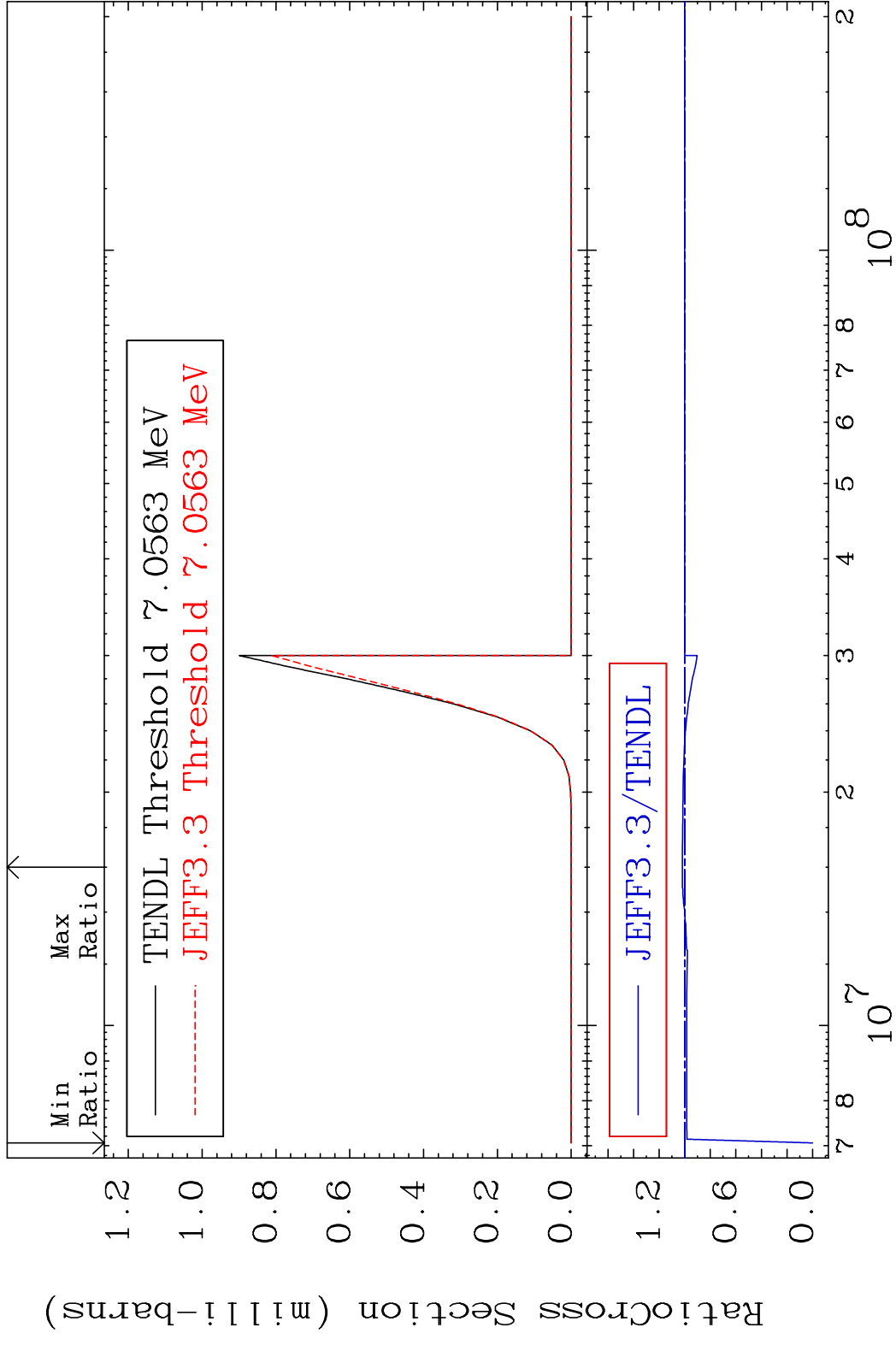


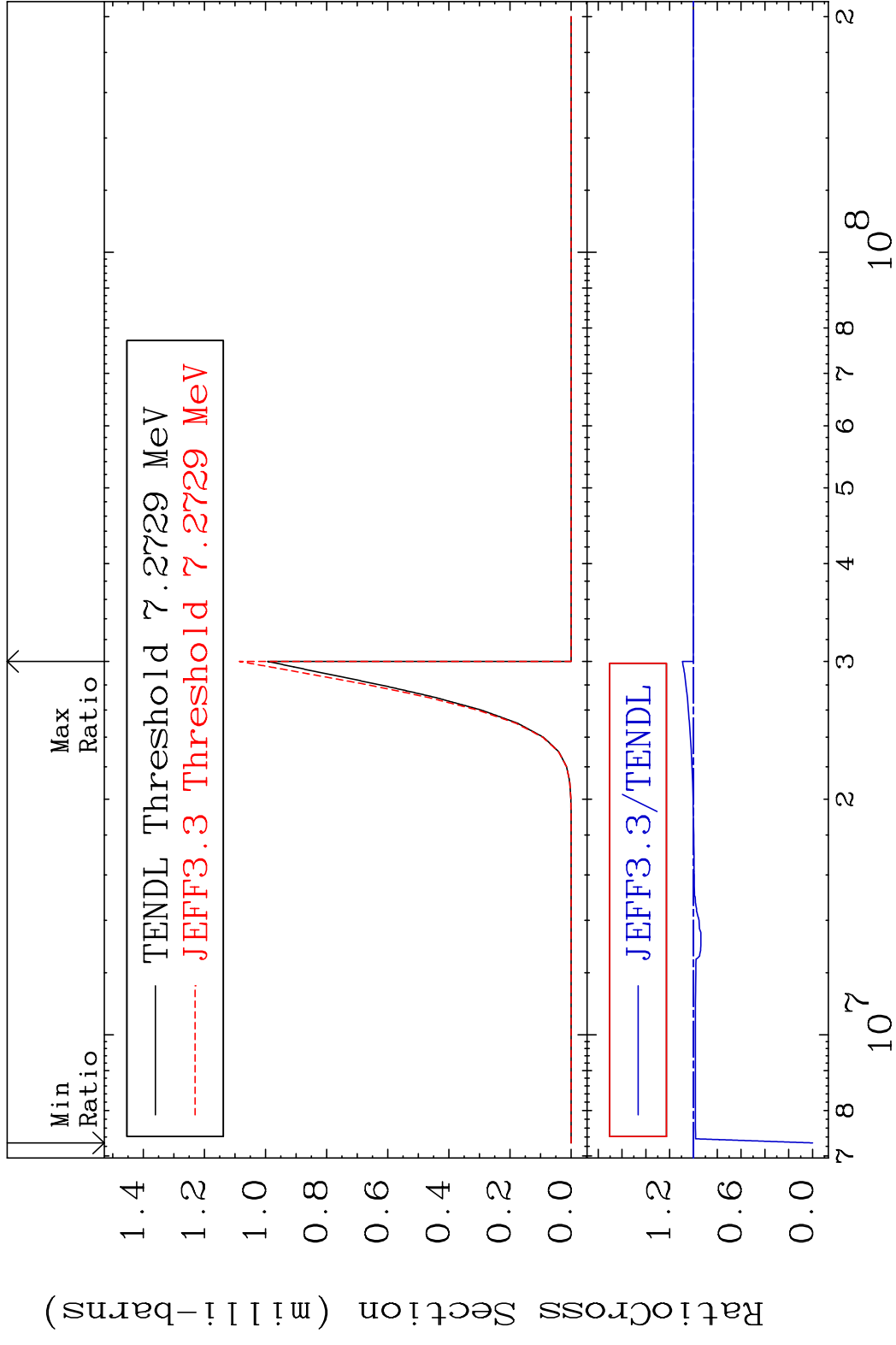
MAT 4834 (n, t): 47-Ag-107g 48-Cd-109
 Radionuclide Production Cross Section Ratio 0.000 %

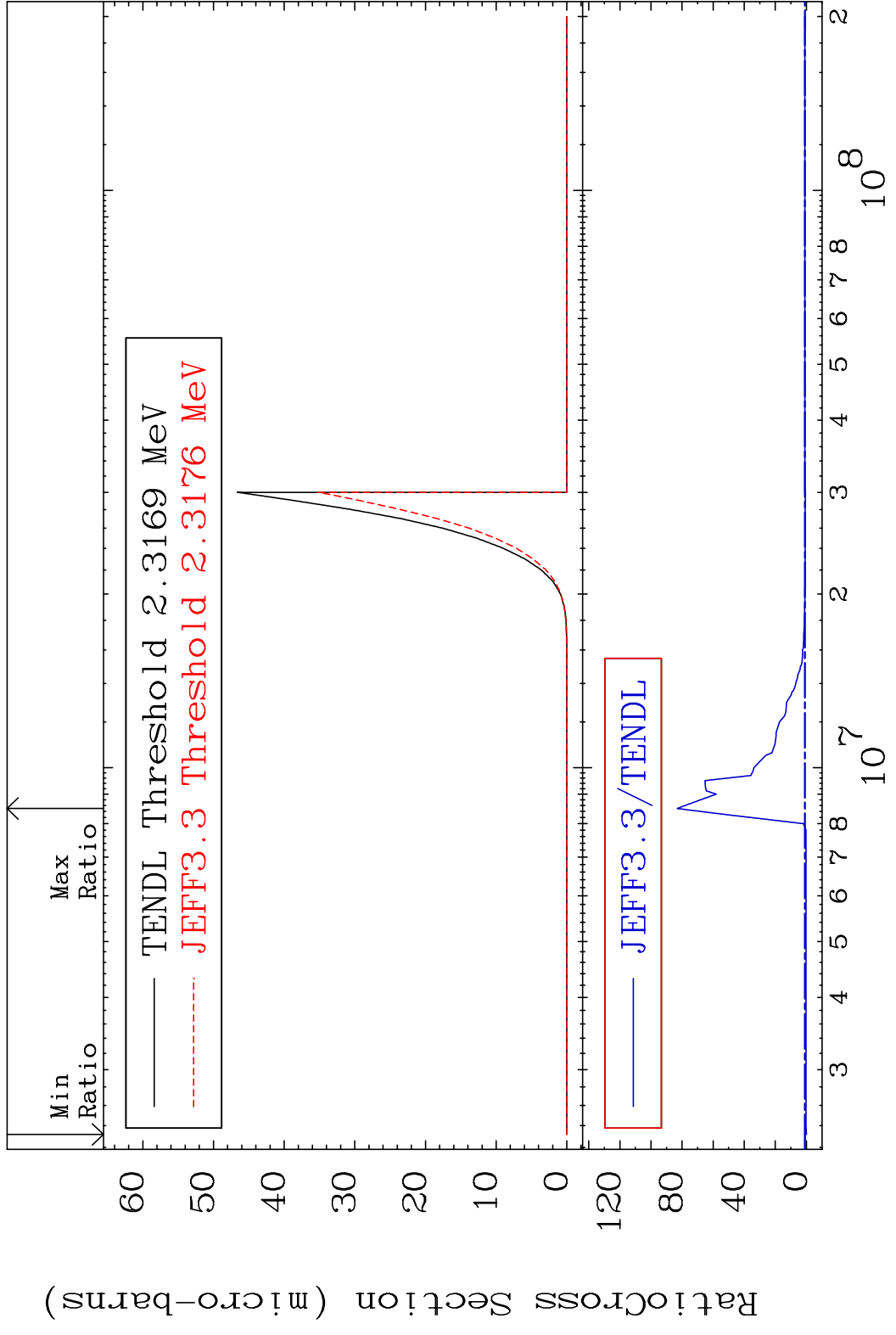


MAT 4834 (n, t): 47-Ag-107m1 48-Cd-109
 Radionuclide Production Cross Section Ratio 5.670 %

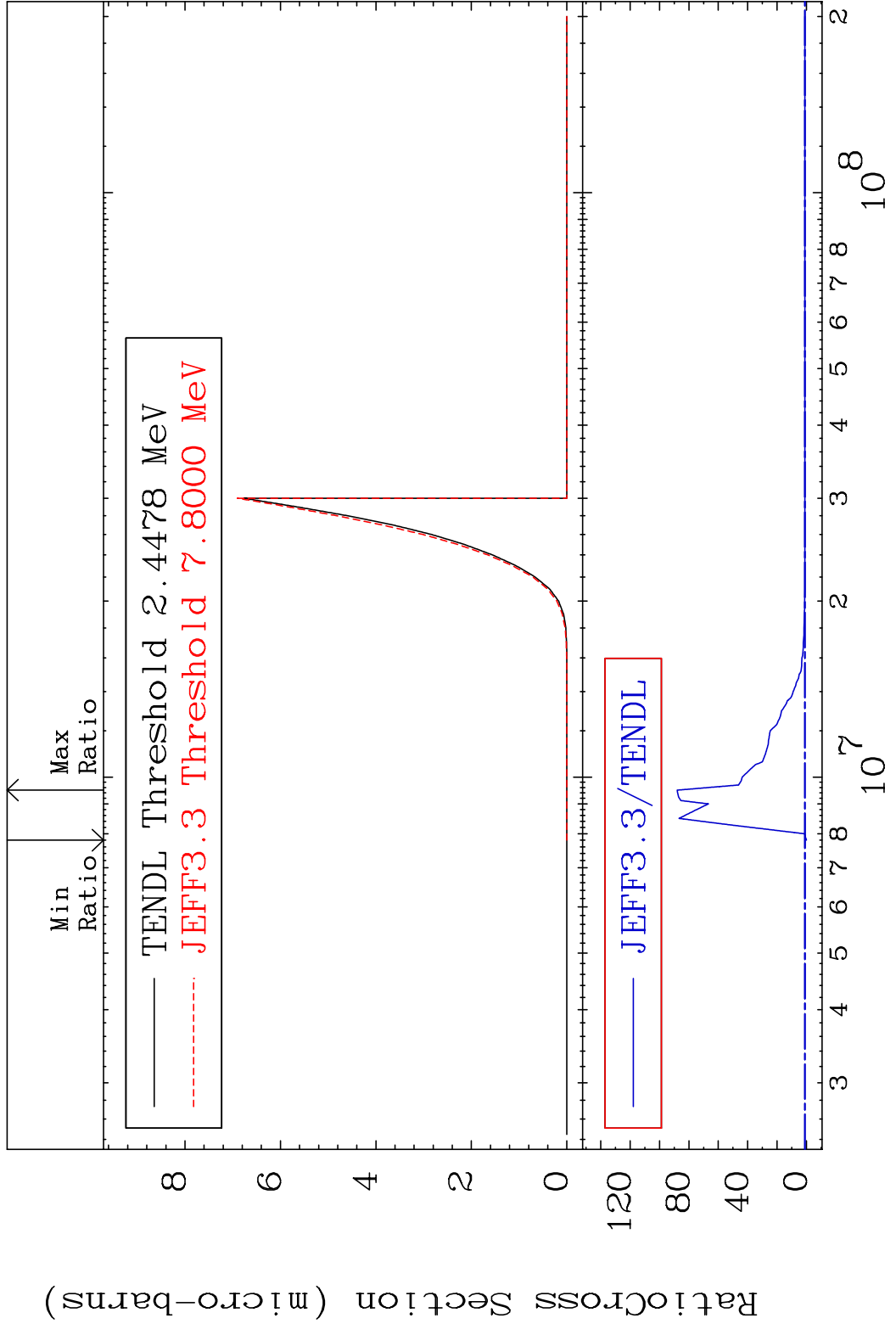


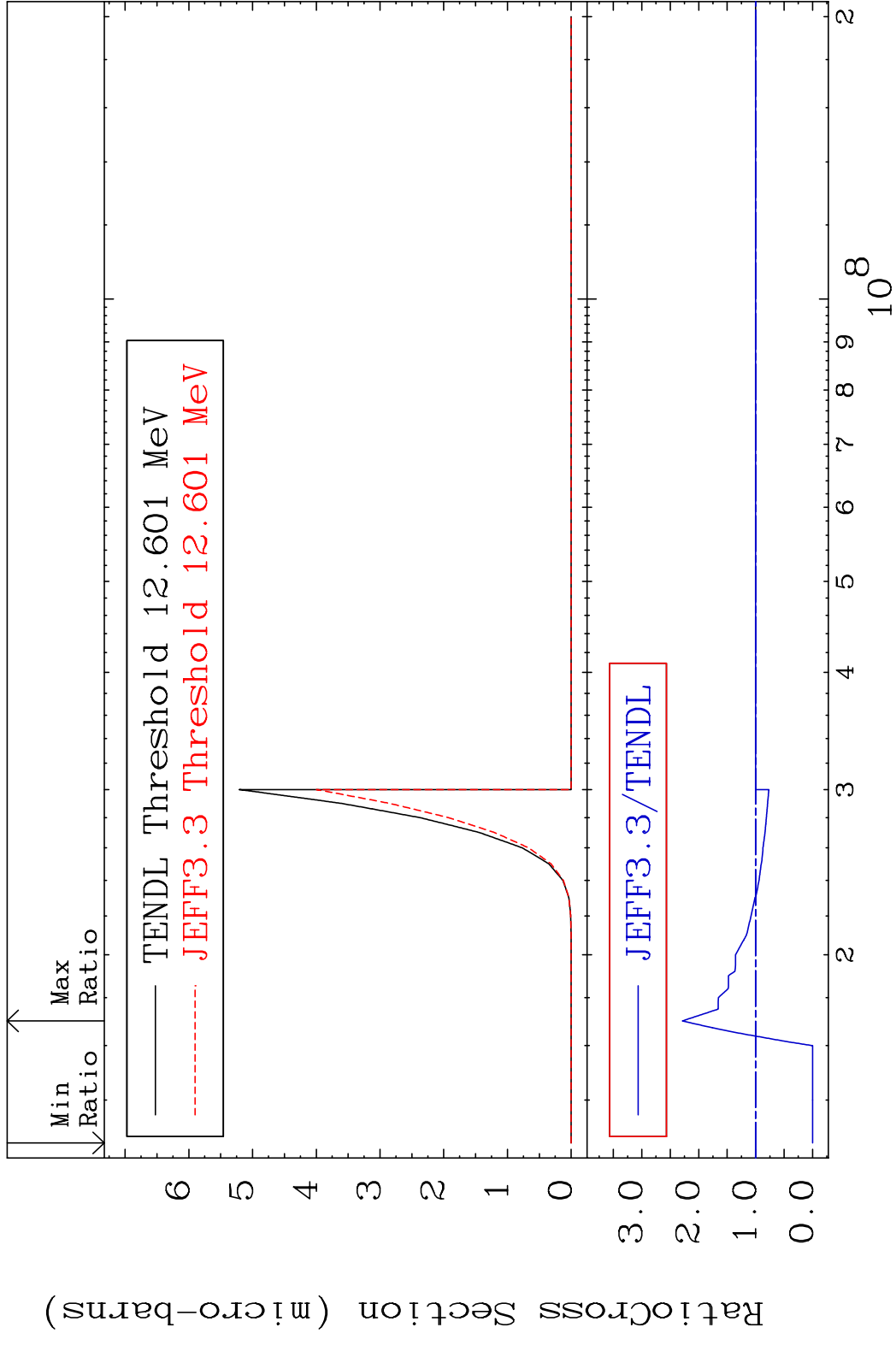


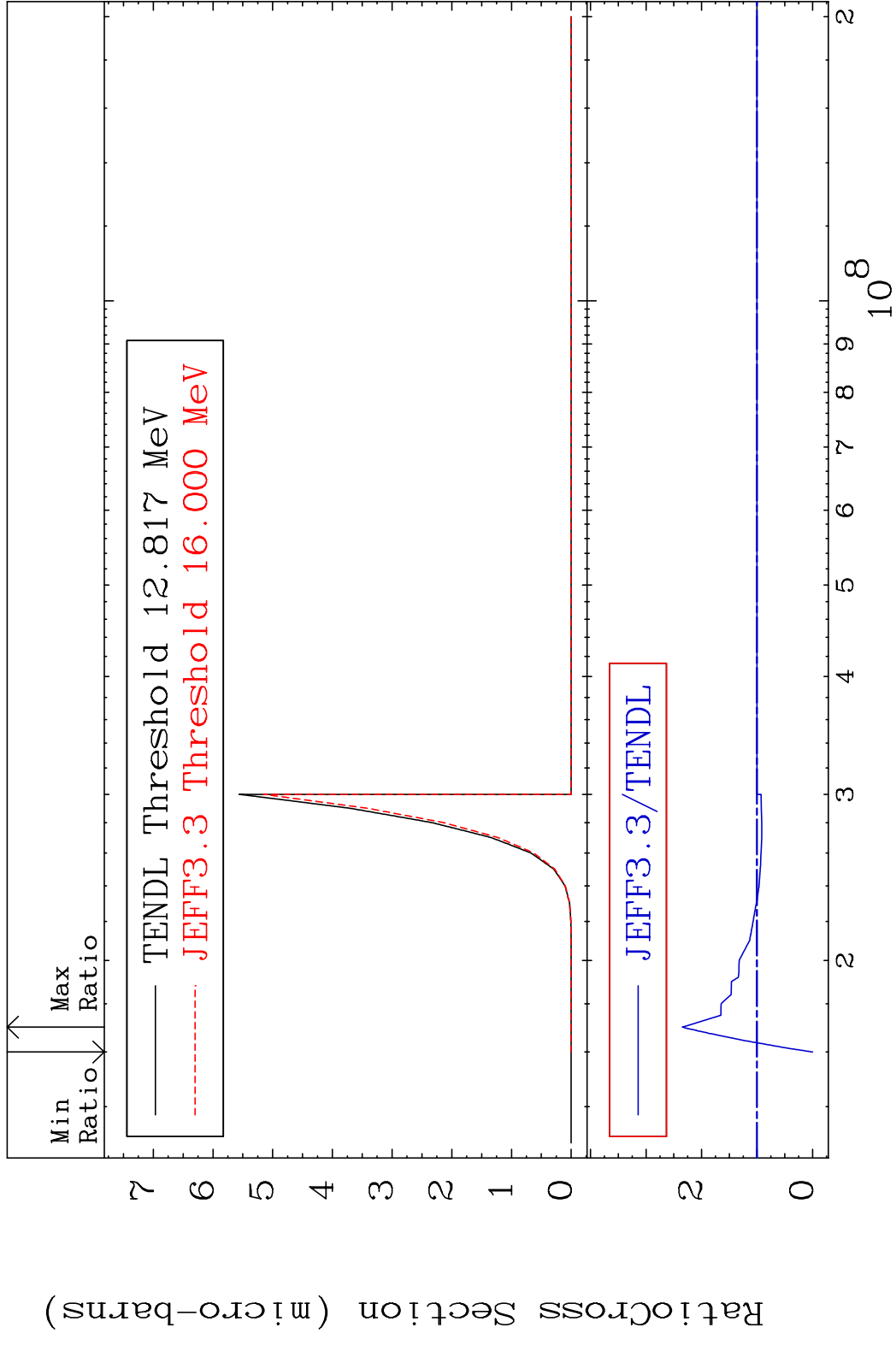




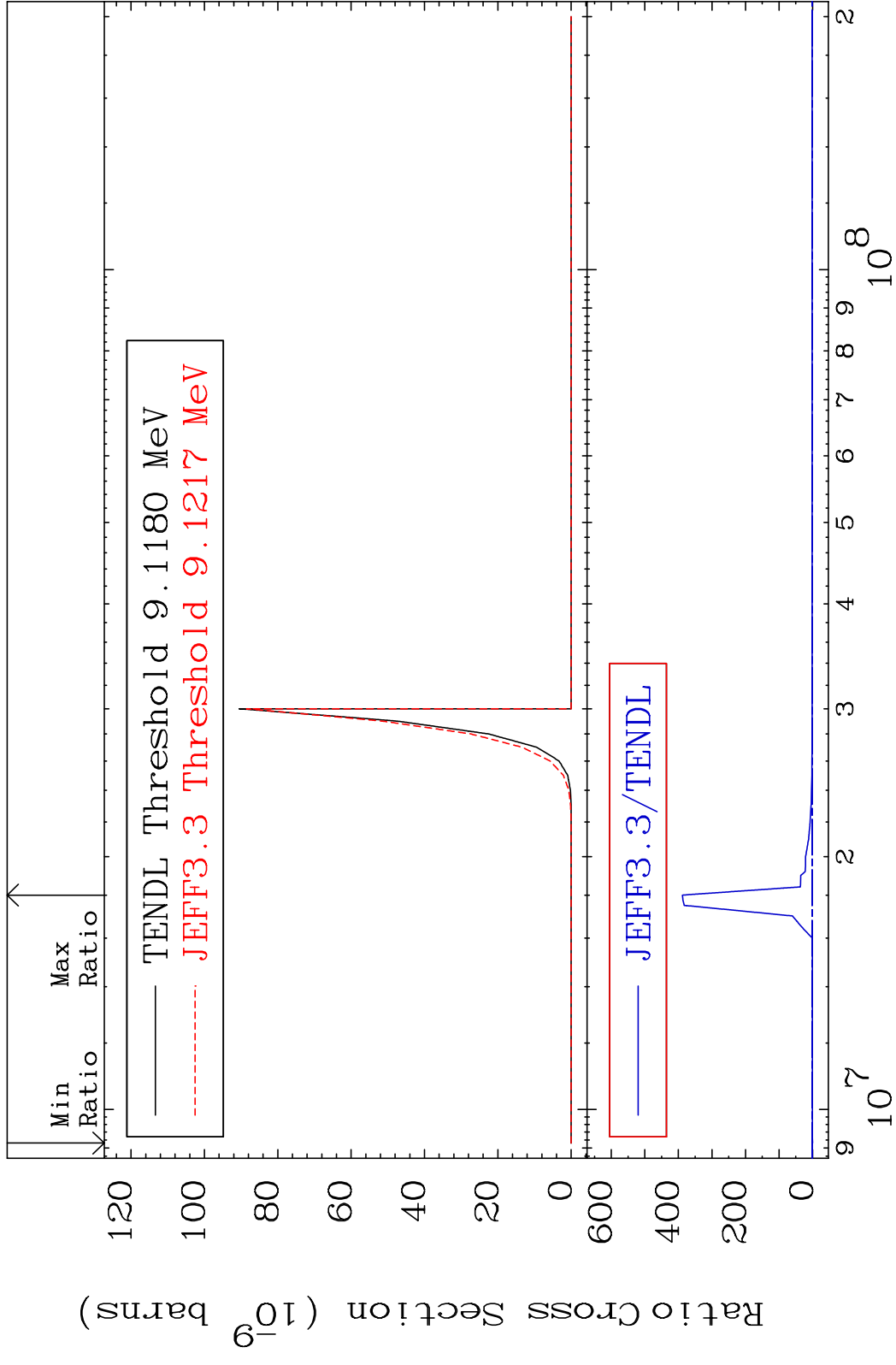
MAT 4834 (n, p) α : 45-Rh-105m1 48-Cd-109
 Radionuclide Production Cross Section to 8699. %





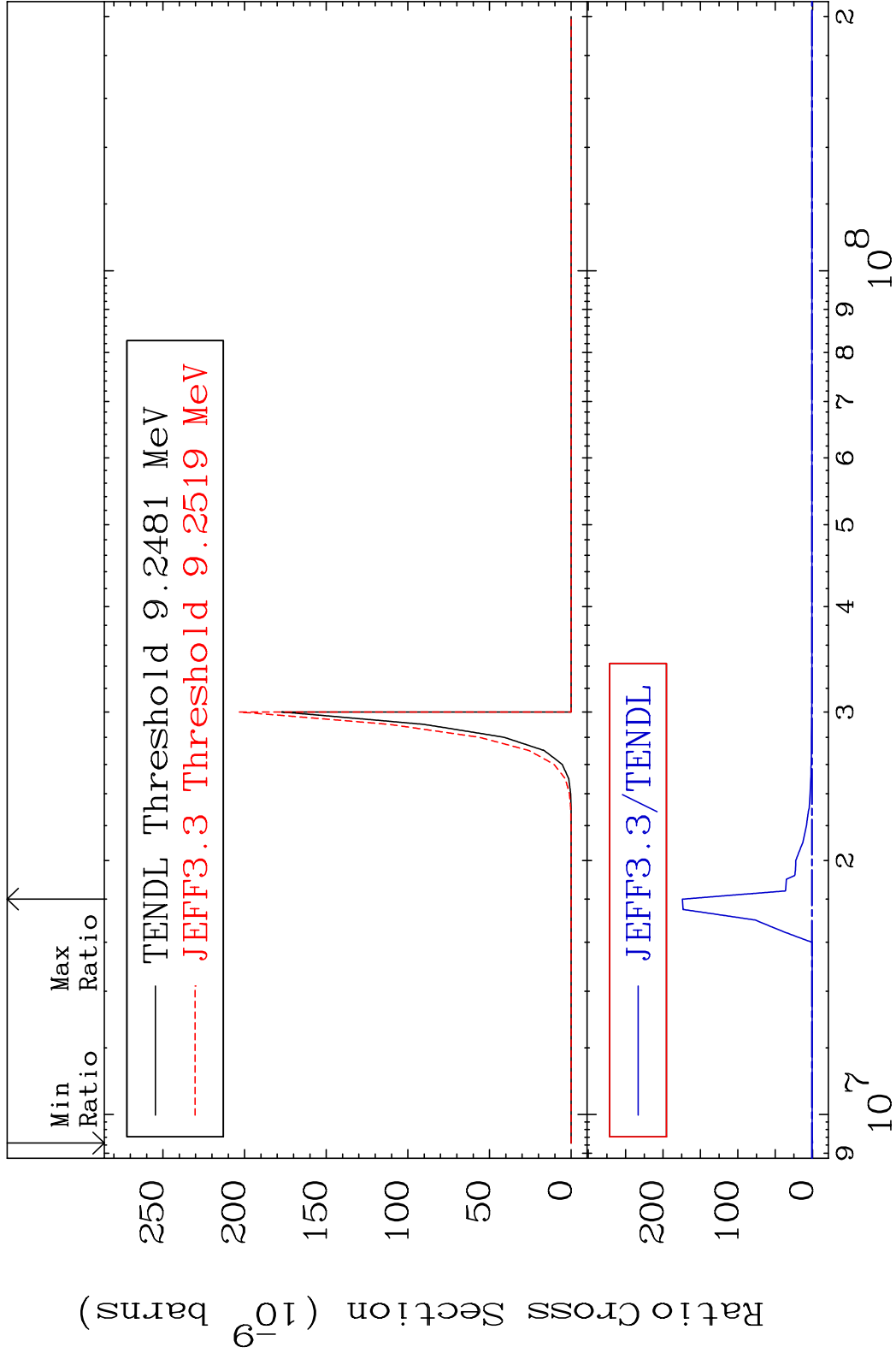


MAT 4834 (n, d) α :45-Rh-104g 48-Cd-109
 Radionuclide Production Cross Section to 9999. %



93 Incident Energy (eV) 48-Cd-109

MAT 4834 (n, d) α : 45-Rh-104m3 48-Cd-109
 Radionuclide Production Cross Section 1800.01 dth 9999. %



94 Incident Energy (eV) 48-Cd-109