

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

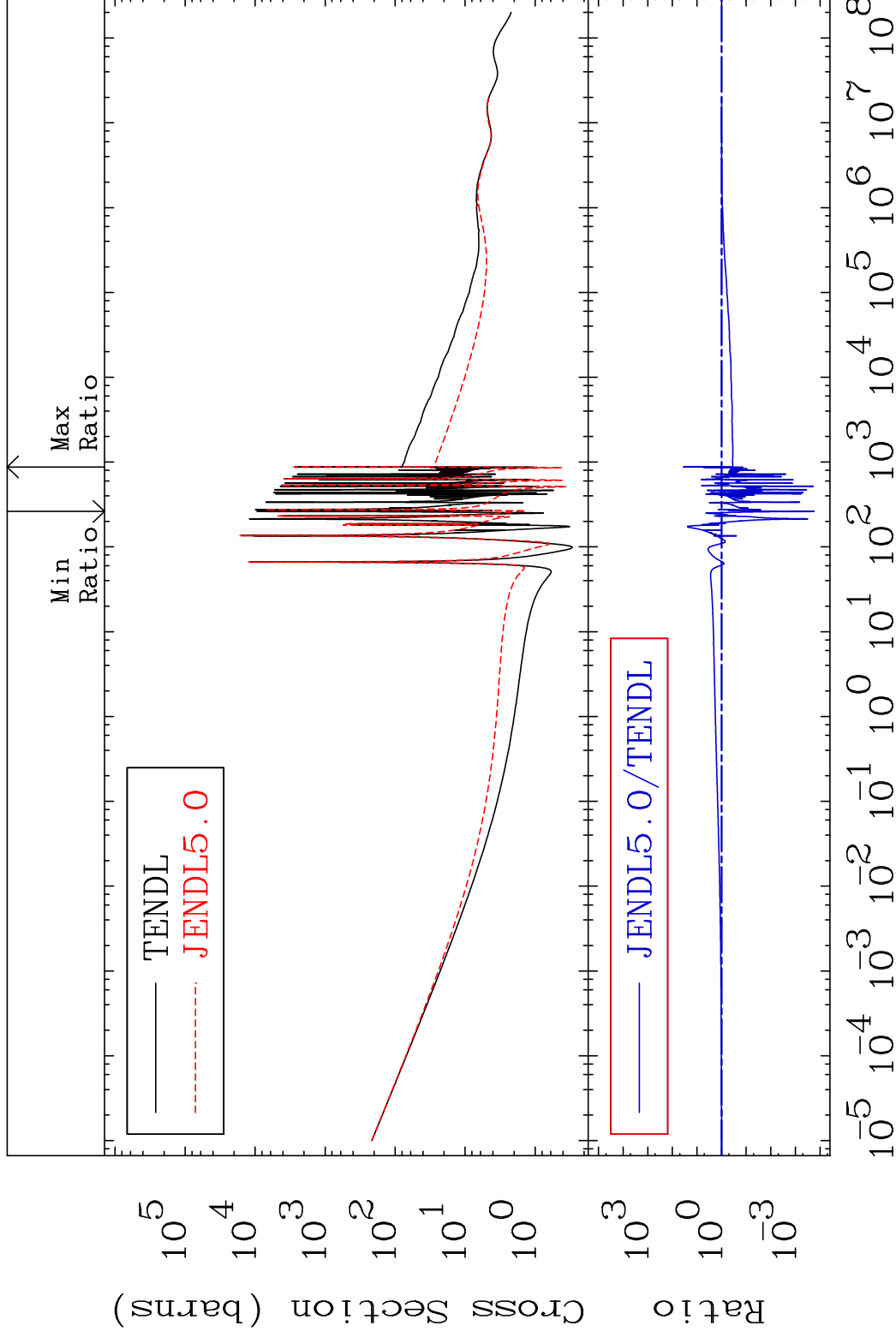
MAT 5825

Total

58-Ce-136

Cross Section

-99.98 To 3366. %



1

Incident Energy (eV)

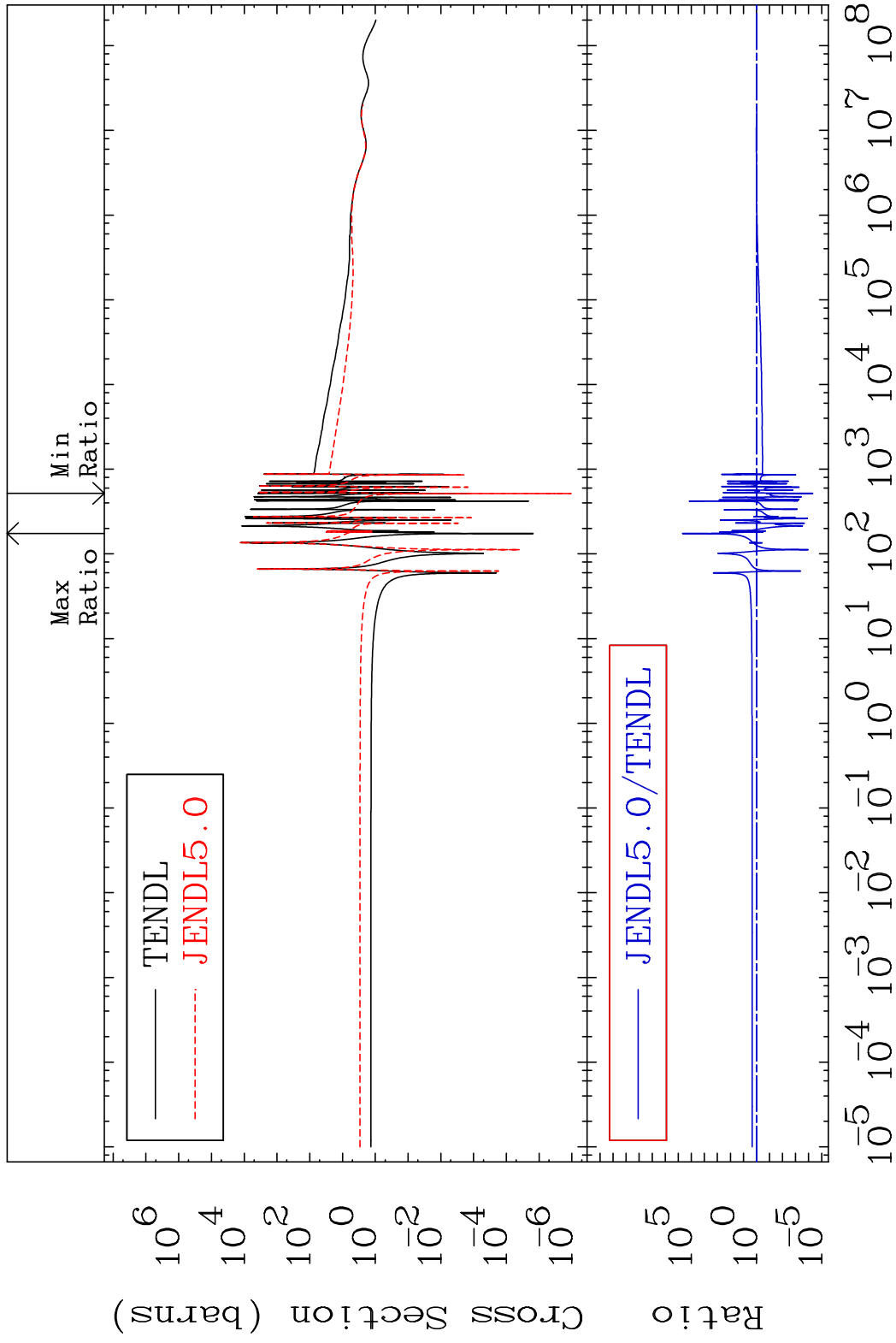
58-Ce-136

MAT 5825

Elastic

58-Ce-136

Cross Section -100.0 To 9999. %

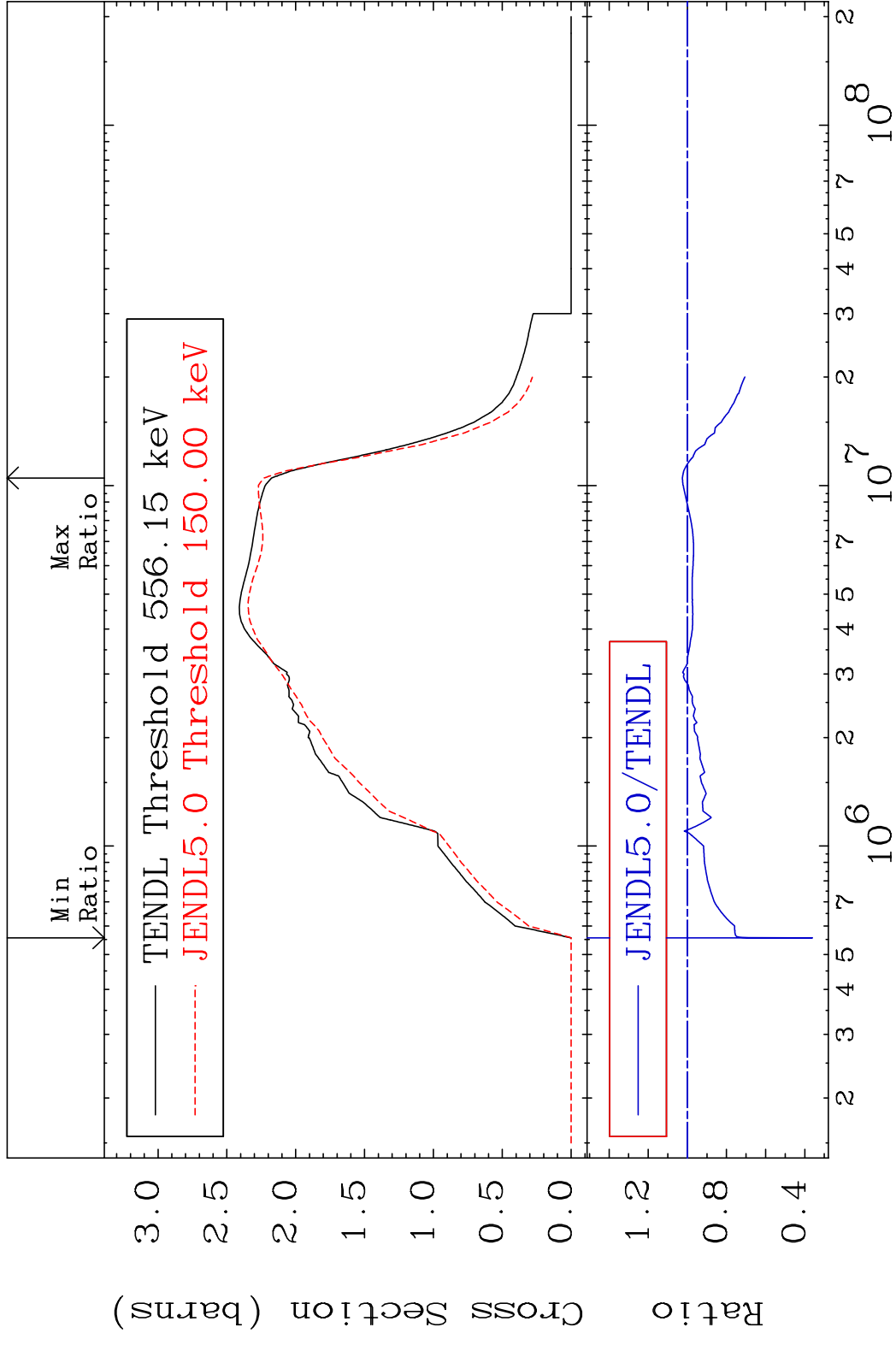


2

Incident Energy (eV)

58-Ce-136

MAT 5825 Inelastic 58-Ce-136
 Cross Section -63.99 To 2.562 %

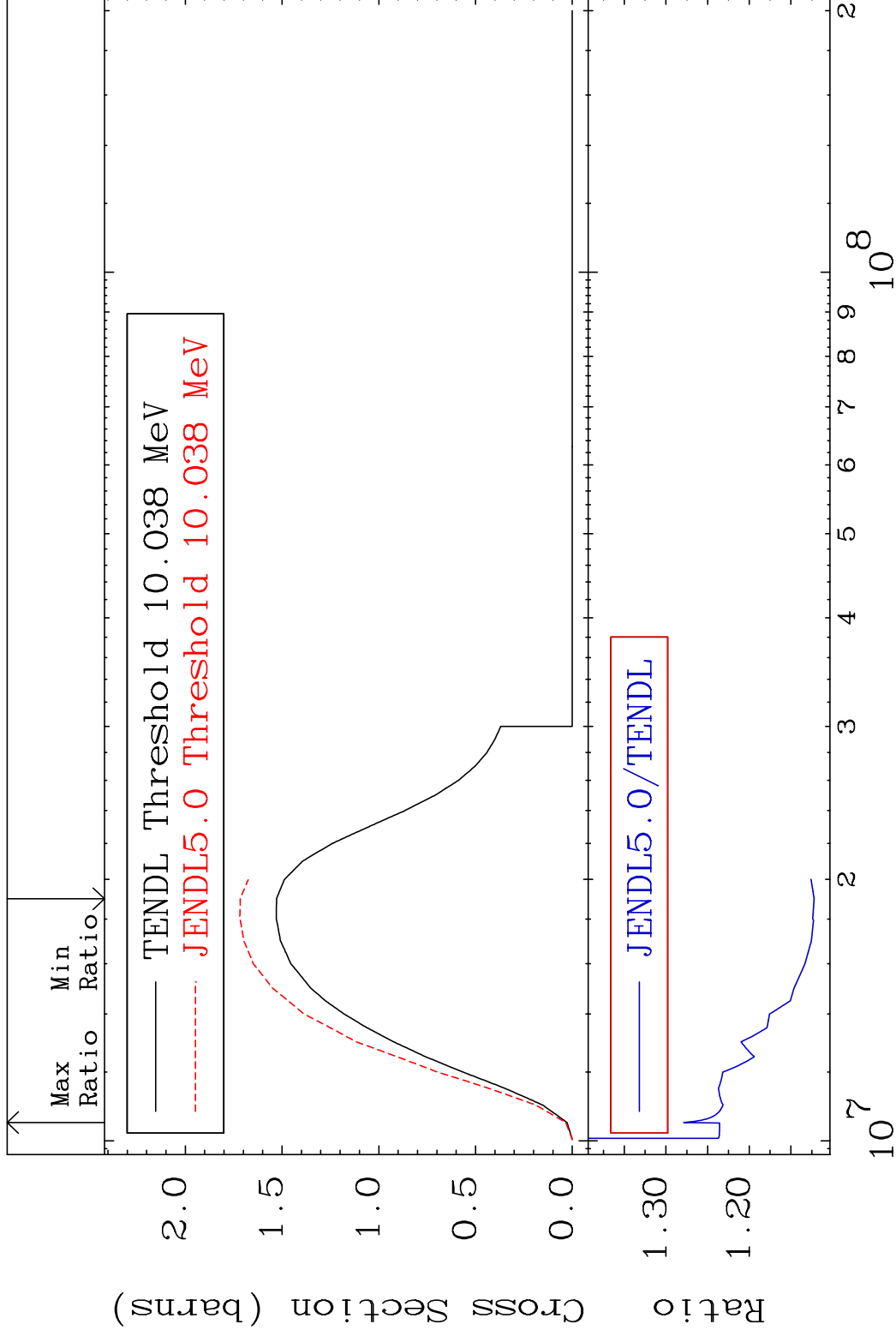


MAT 5825

(n,2n)

58-Ce-136

Cross Section 12.22 To 27.88 %



4

Incident Energy (eV)

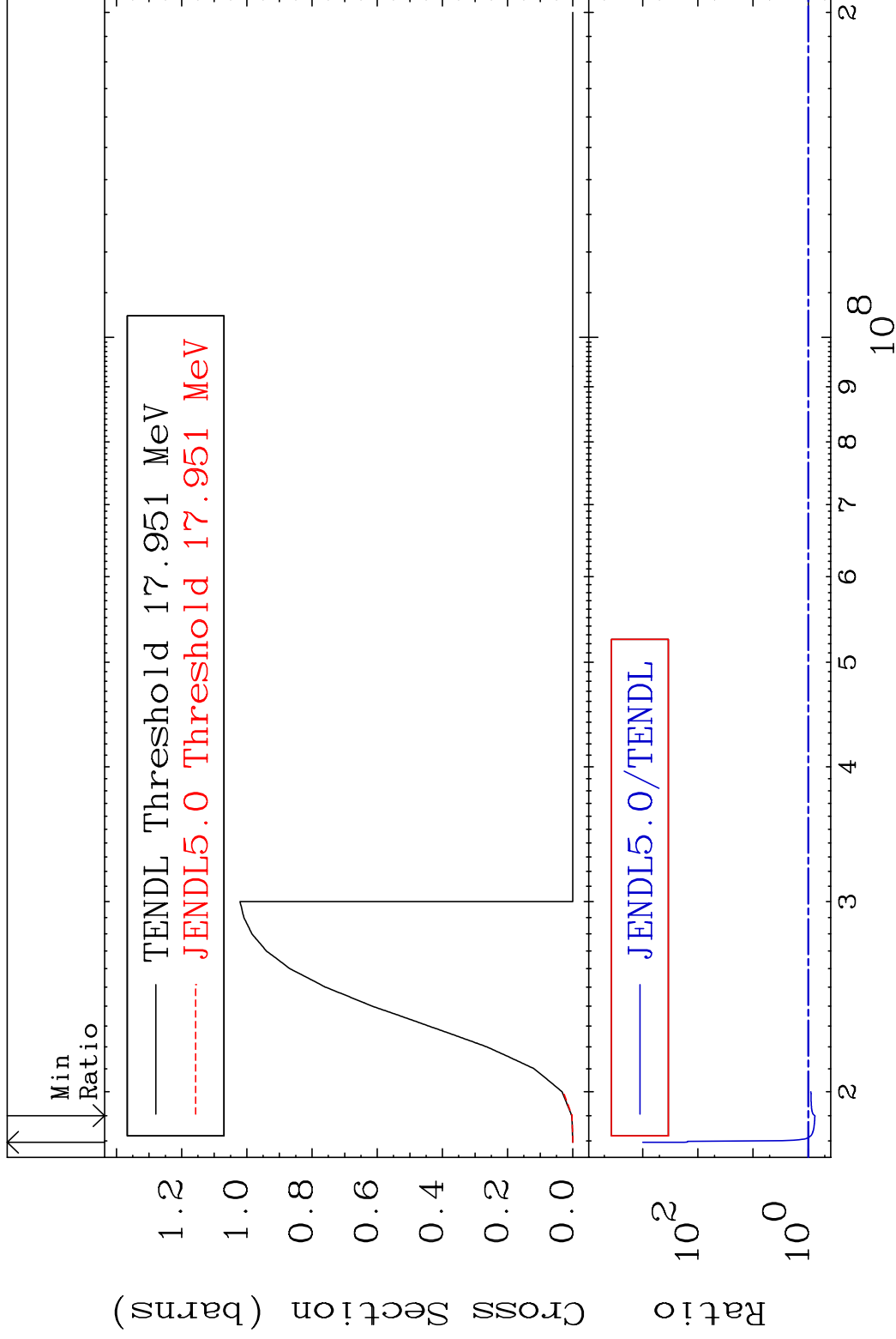
58-Ce-136

MAT 5825

(n,3n)

58-Ce-136

Cross Section -24.40 To 9999. %

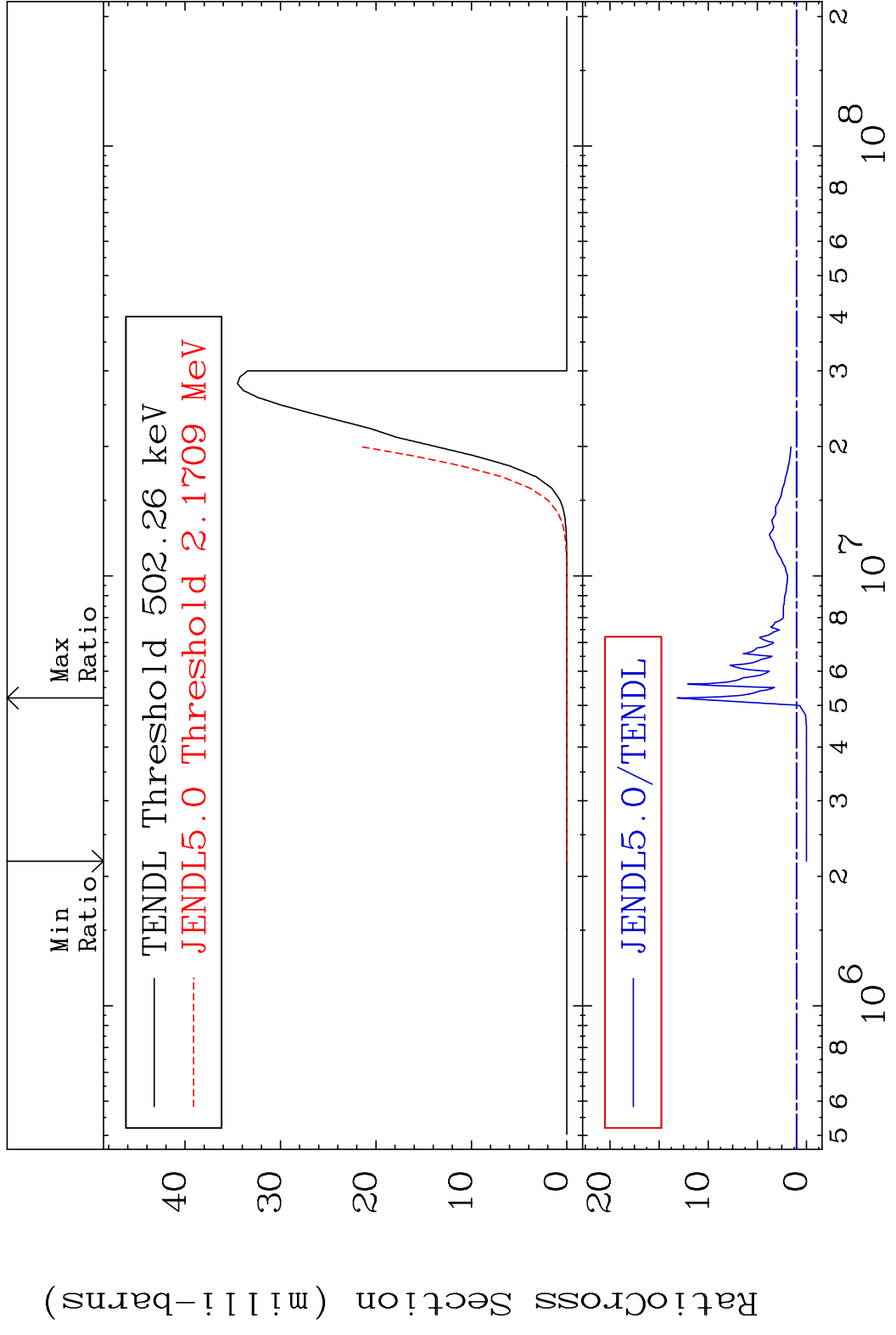


5

Incident Energy (eV)

58-Ce-136

MAT 5825 (n, n') α 58-Ce-136
 Cross Section -100.0 To 1215. %

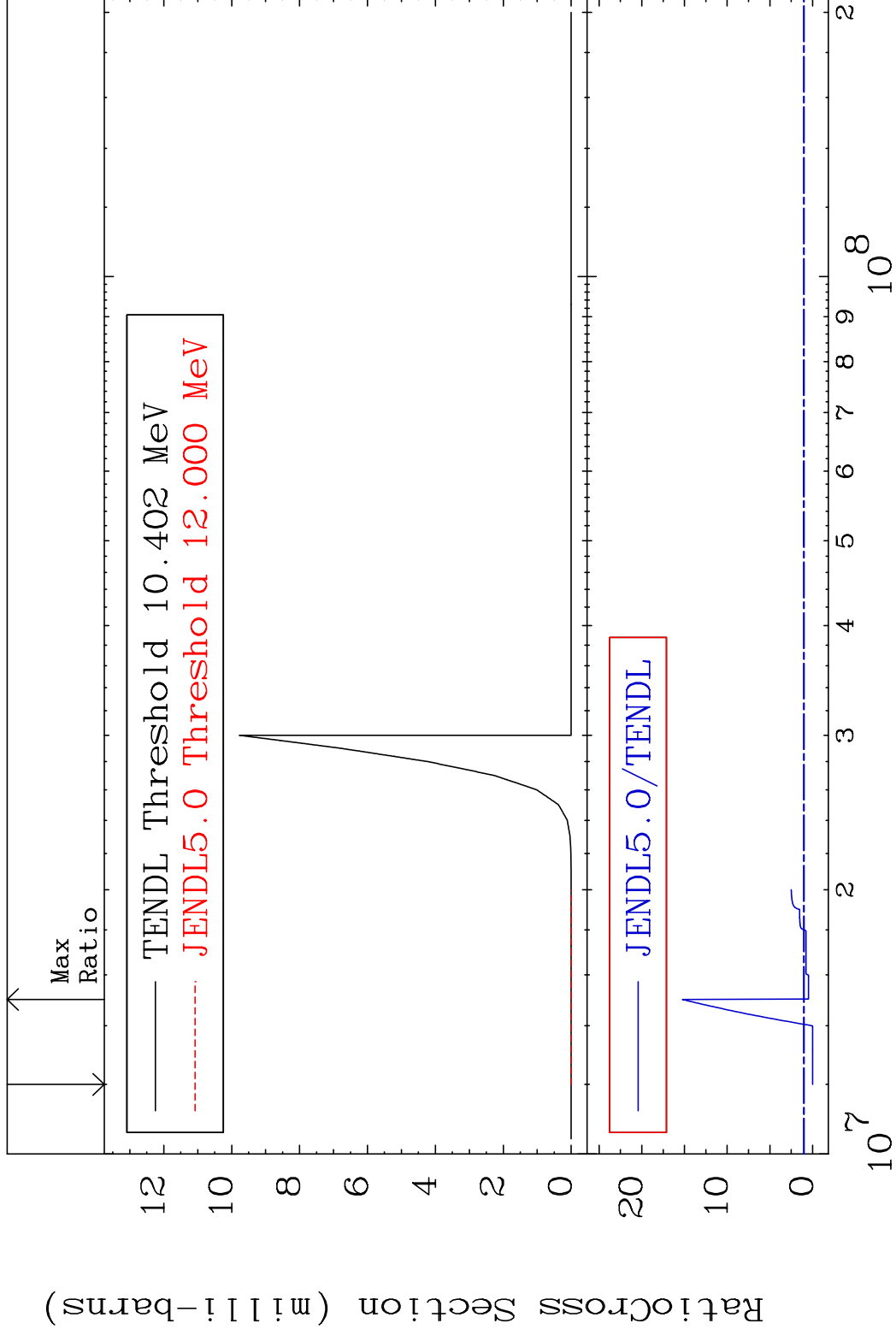


MAT 5825

(n,2n) α

58-Ce-136

Cross Section -100.0 To 1425. %



7

Incident Energy (eV)

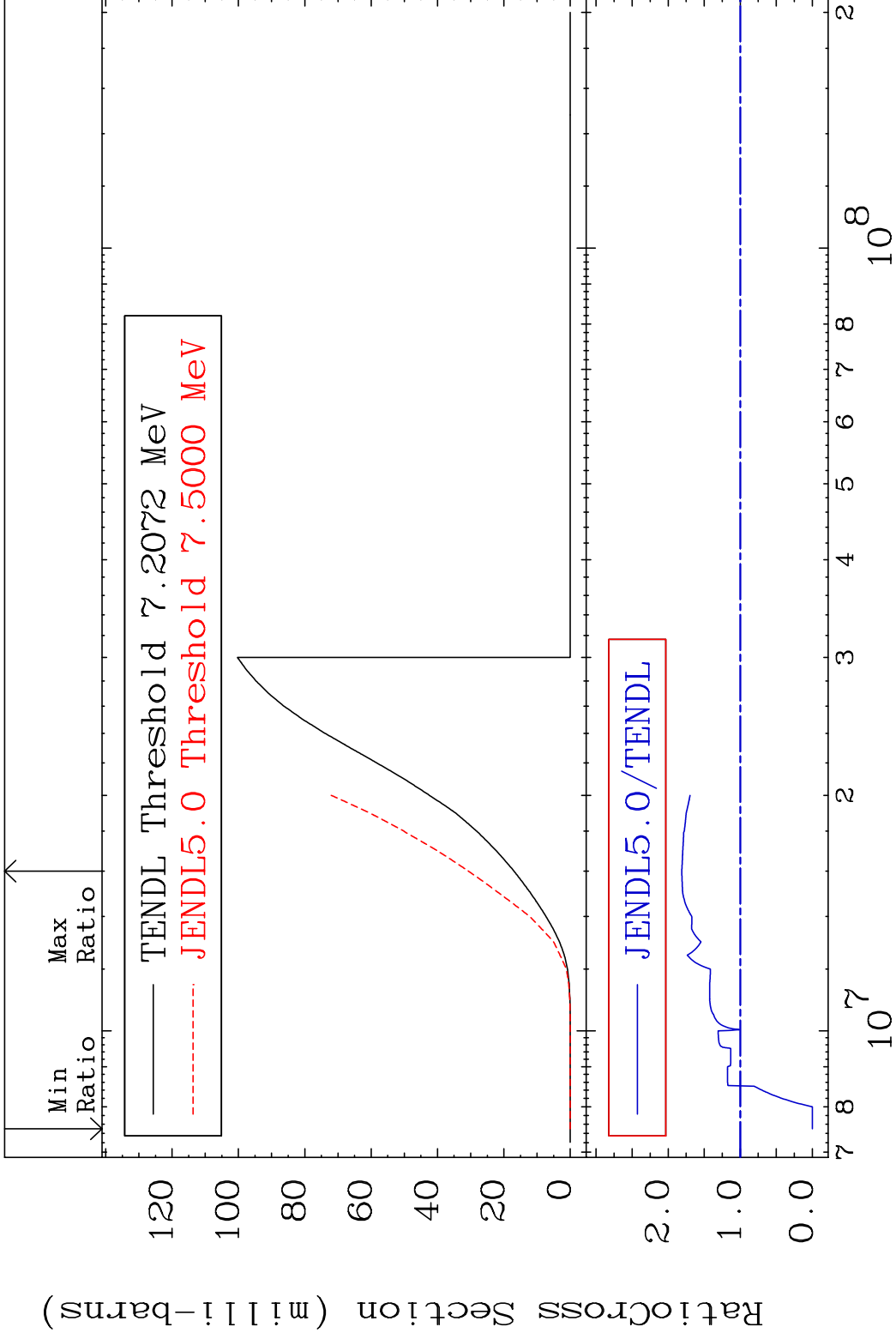
58-Ce-136

MAT 5825

(n, n') p

58-Ce-136

Cross Section -100.0 To 81.19 %



8

Incident Energy (eV)

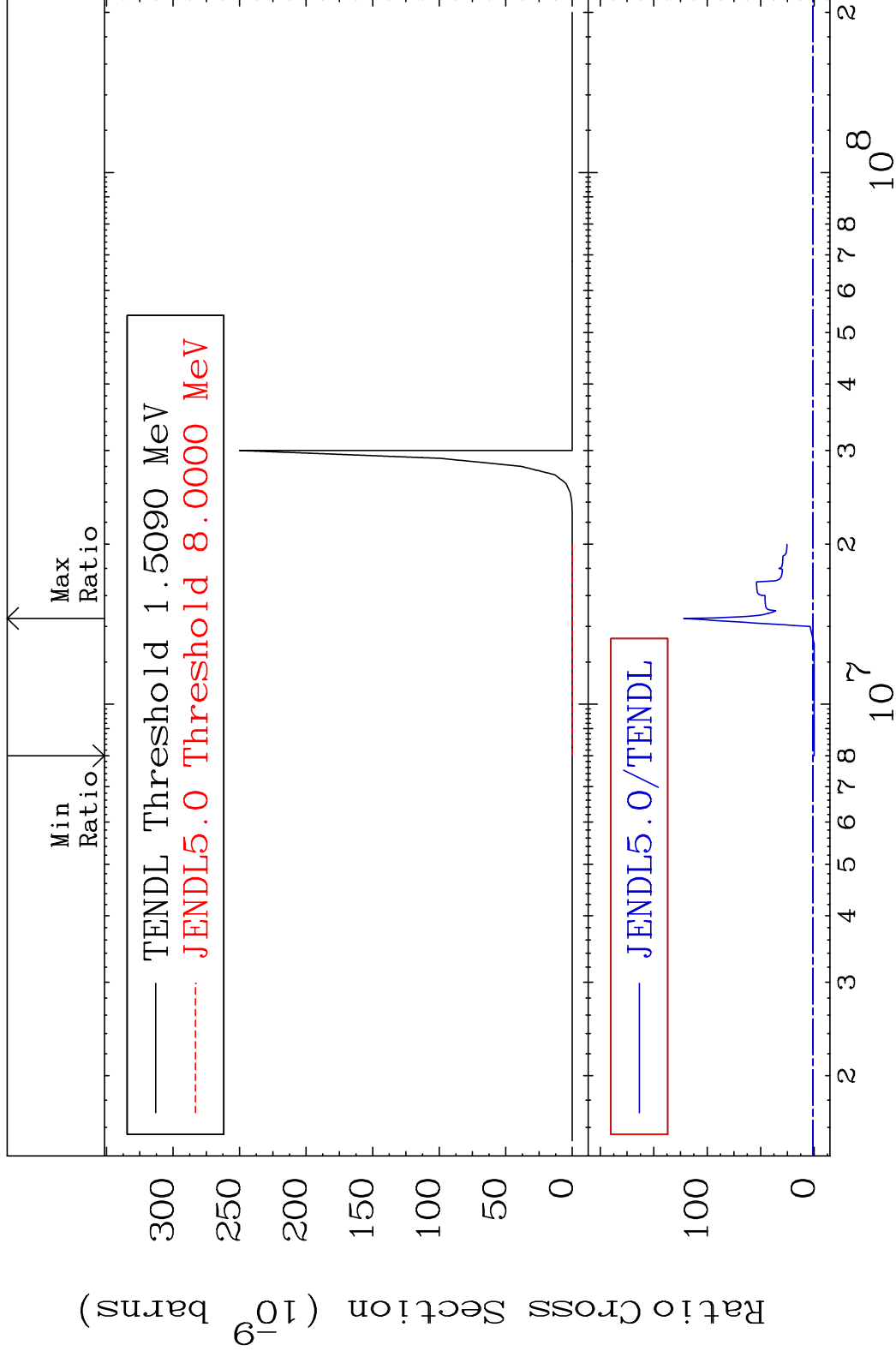
58-Ce-136

MAT 5825

(n, n') 2α

58-Ce-136

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

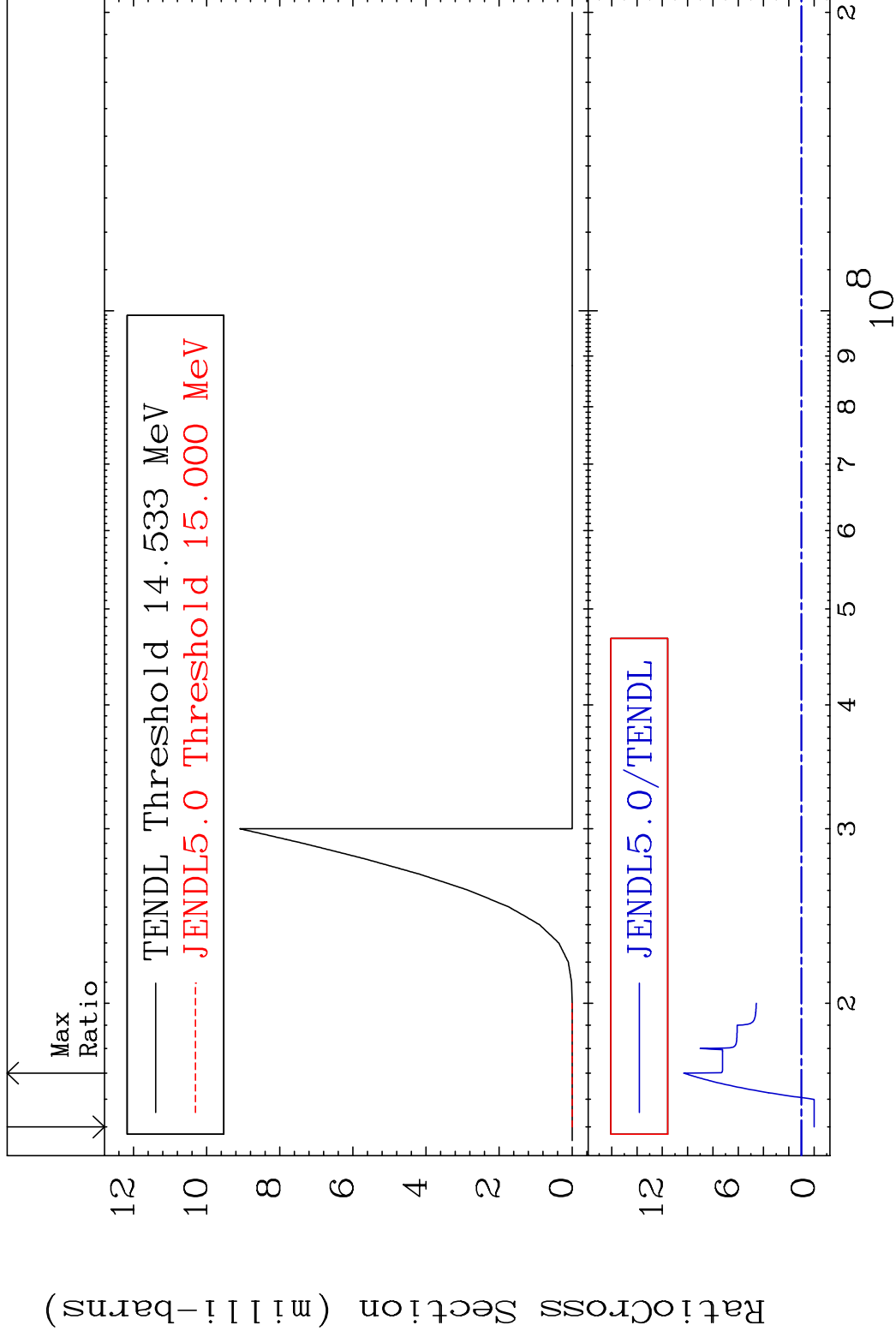
58-Ce-136

MAT 5825

(n, n') d

58-Ce-136

Cross Section -100.0 To 931.2 %



10

Incident Energy (eV)

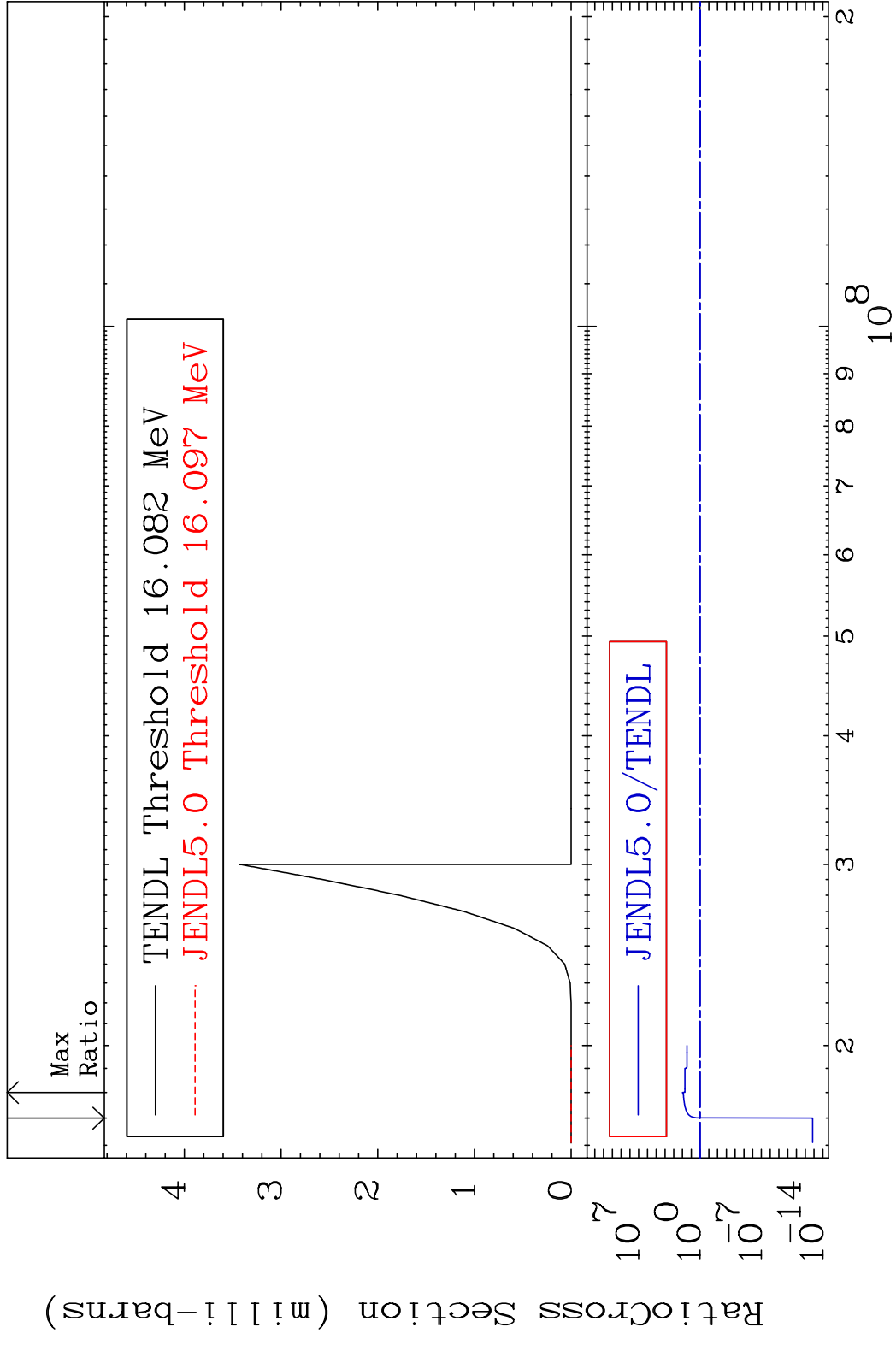
58-Ce-136

MAT 5825

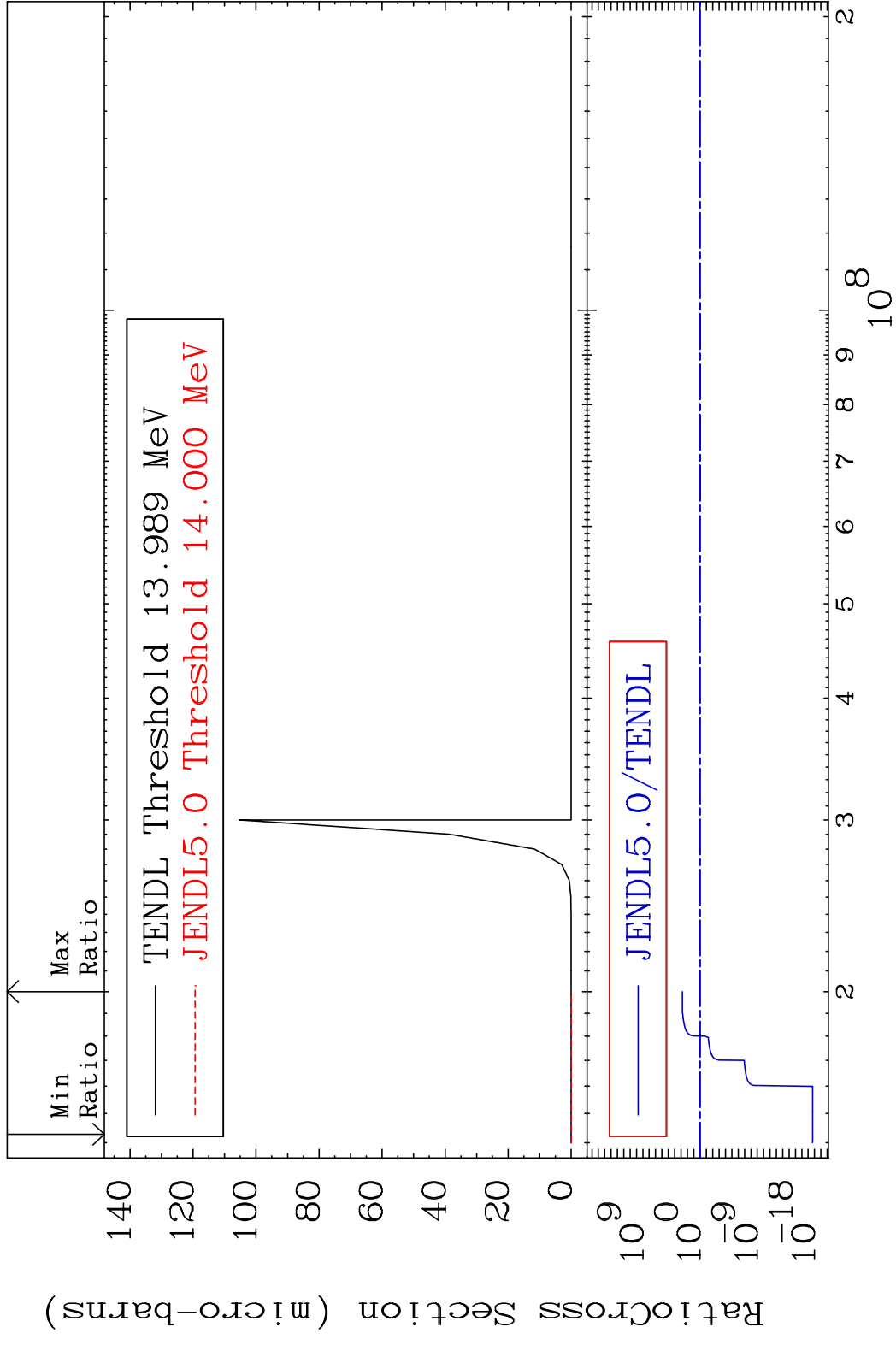
(n, n') t

58-Ce-136

Cross Section -100.0 To 9999. %



MAT 5825 (n,n') He-3 58-Ce-136
 Cross Section -100.0 To 9999. %

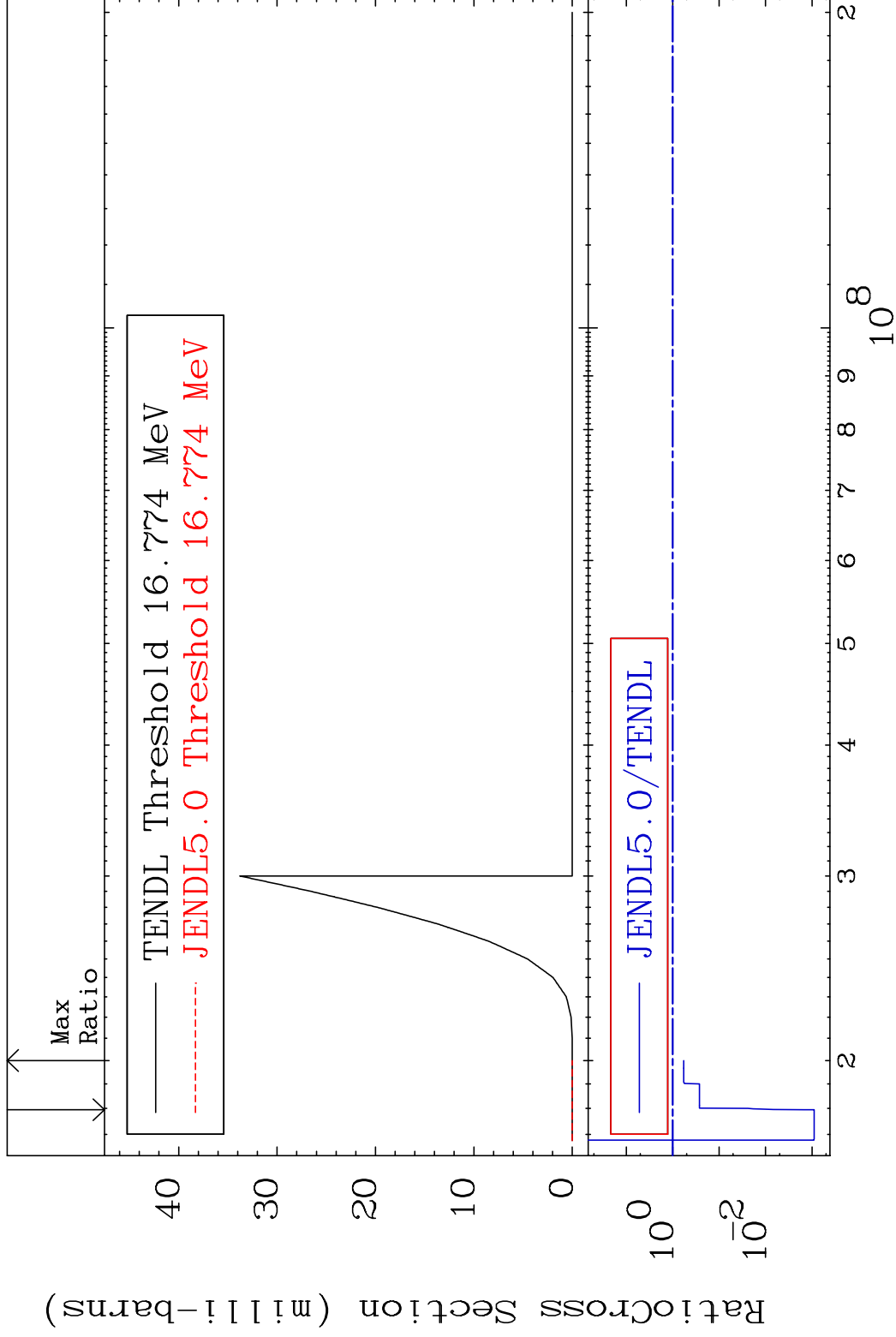


MAT 5825

(n,2n) p

58-Ce-136

Cross Section -99.91 To -41.76%

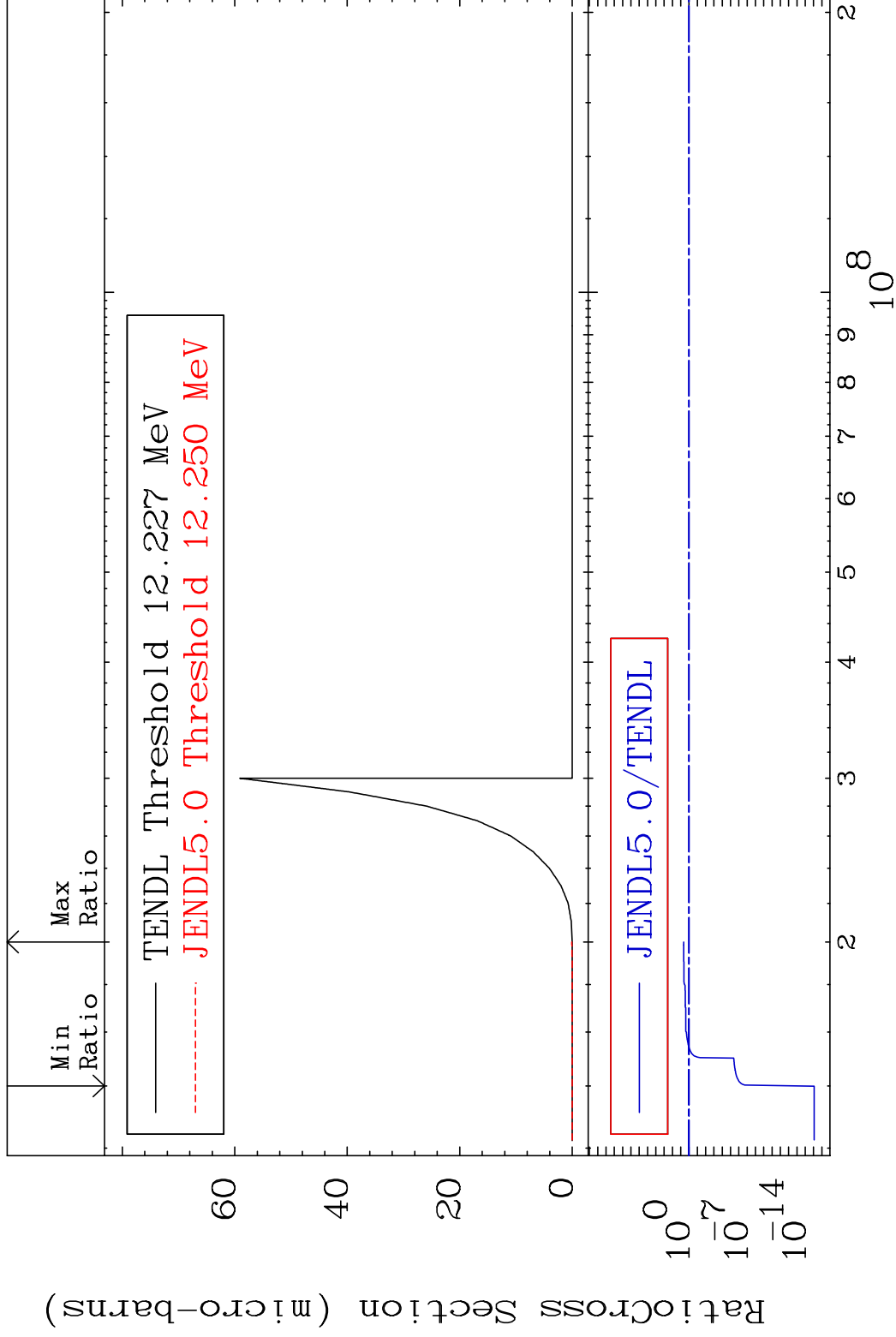


MAT 5825

(n,2n) p

58-Ce-136

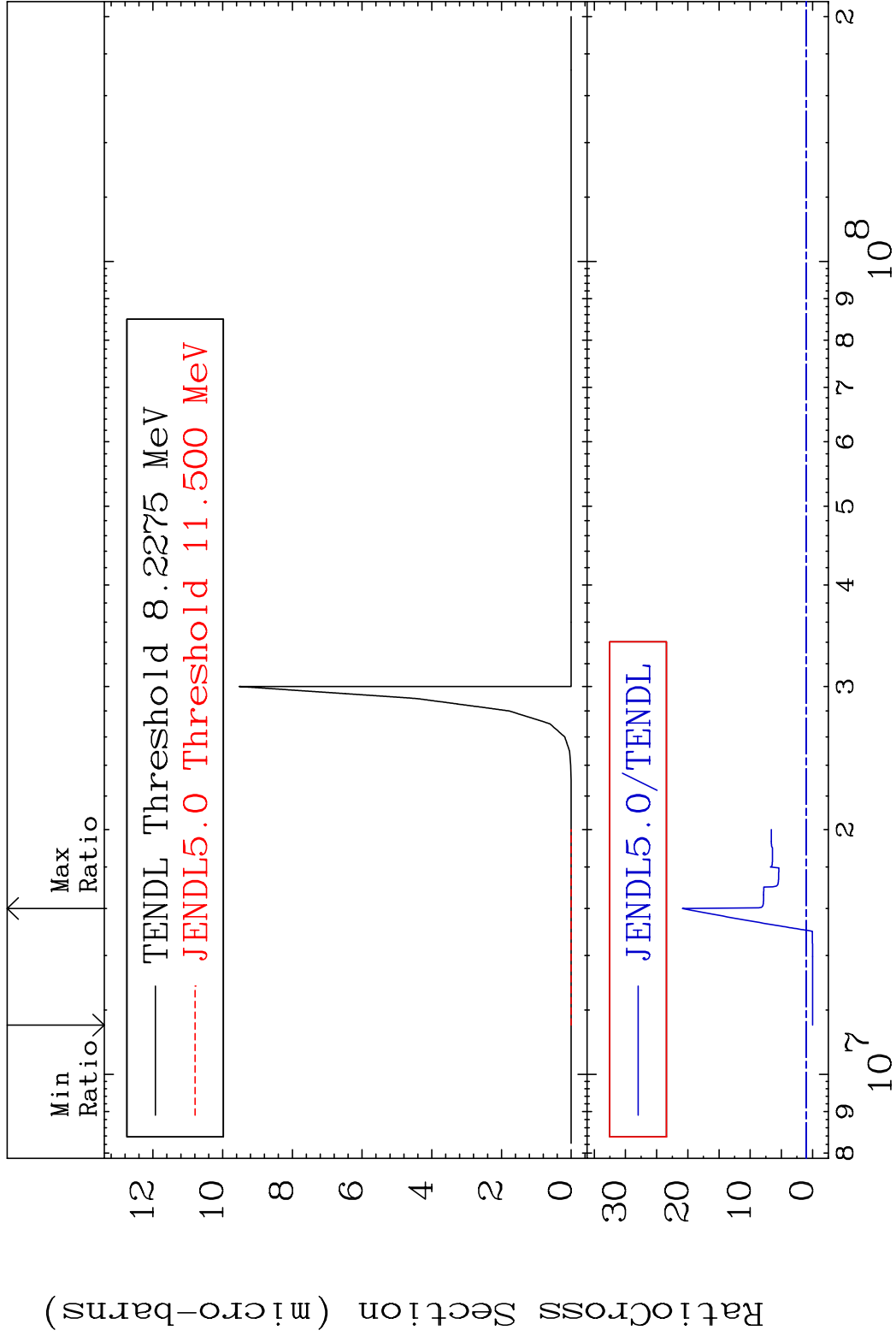
Cross Section -100.0 To 345.5 %



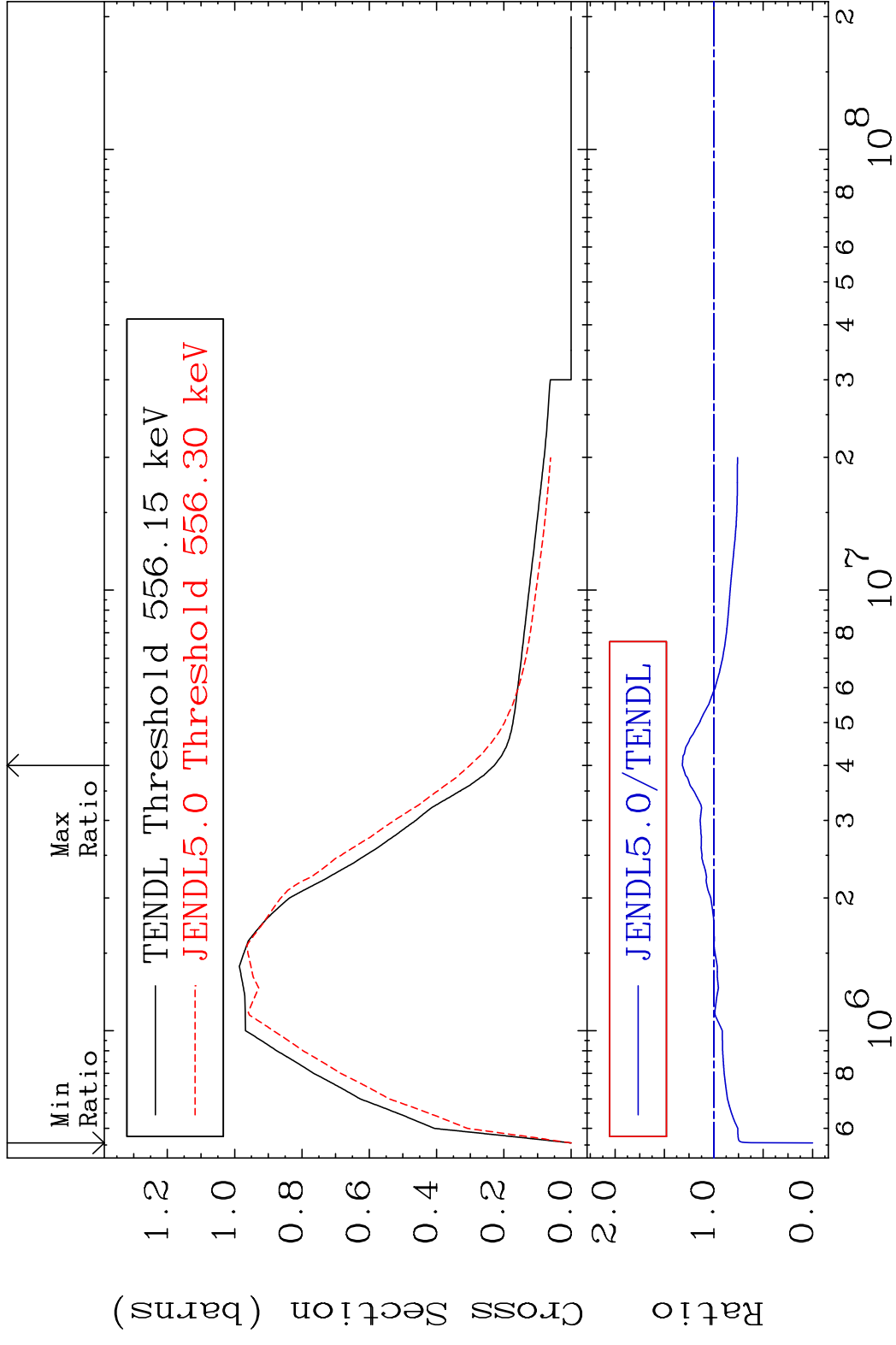
MAT 5825

(n,n') p α 58-Ce-136

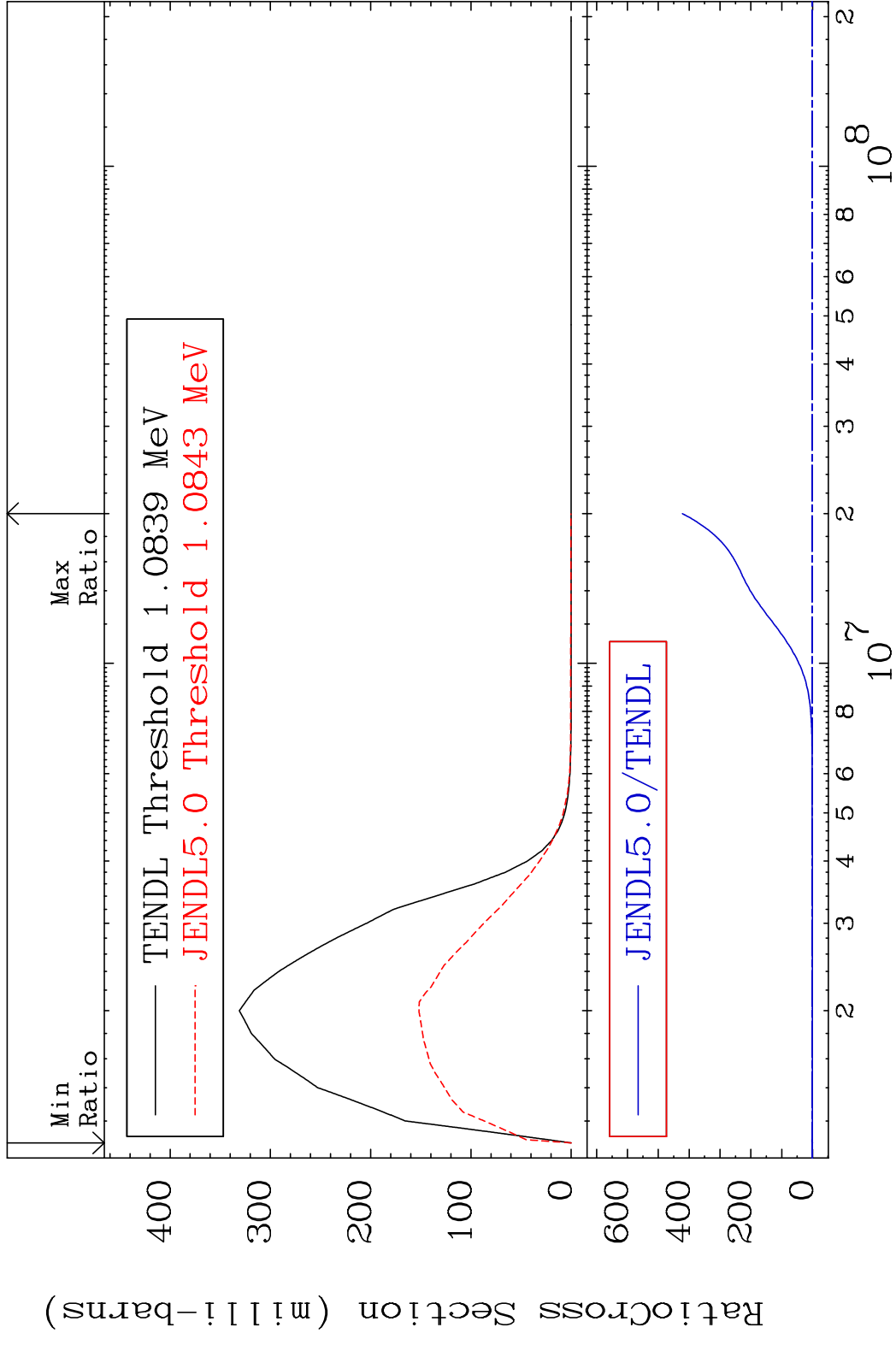
Cross Section -100.0 To 1988. %



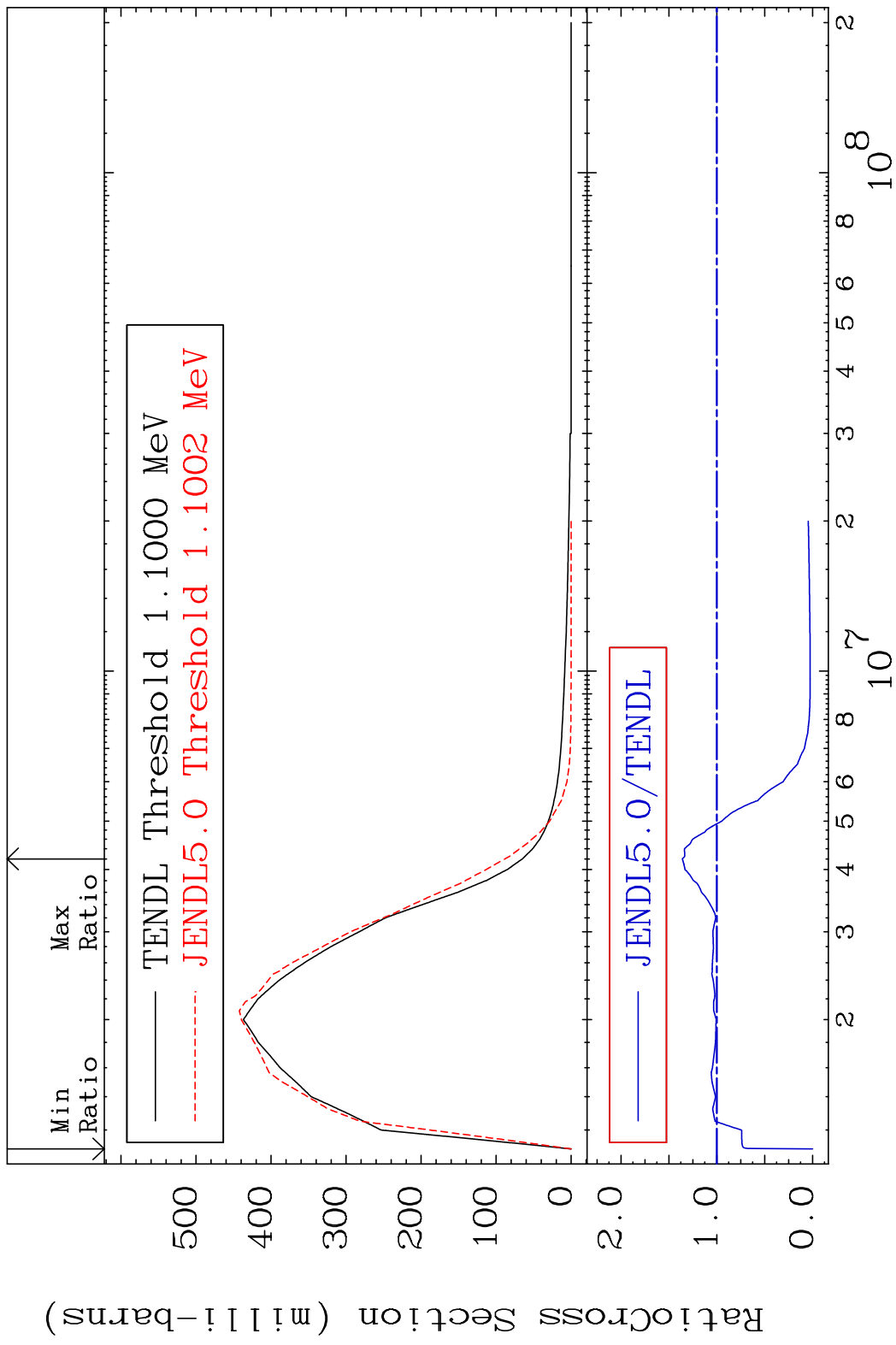
MAT 5825 MT= 51 (n, n') Level 58-Ce-136
 Cross Section -100.0 To 31.84 %



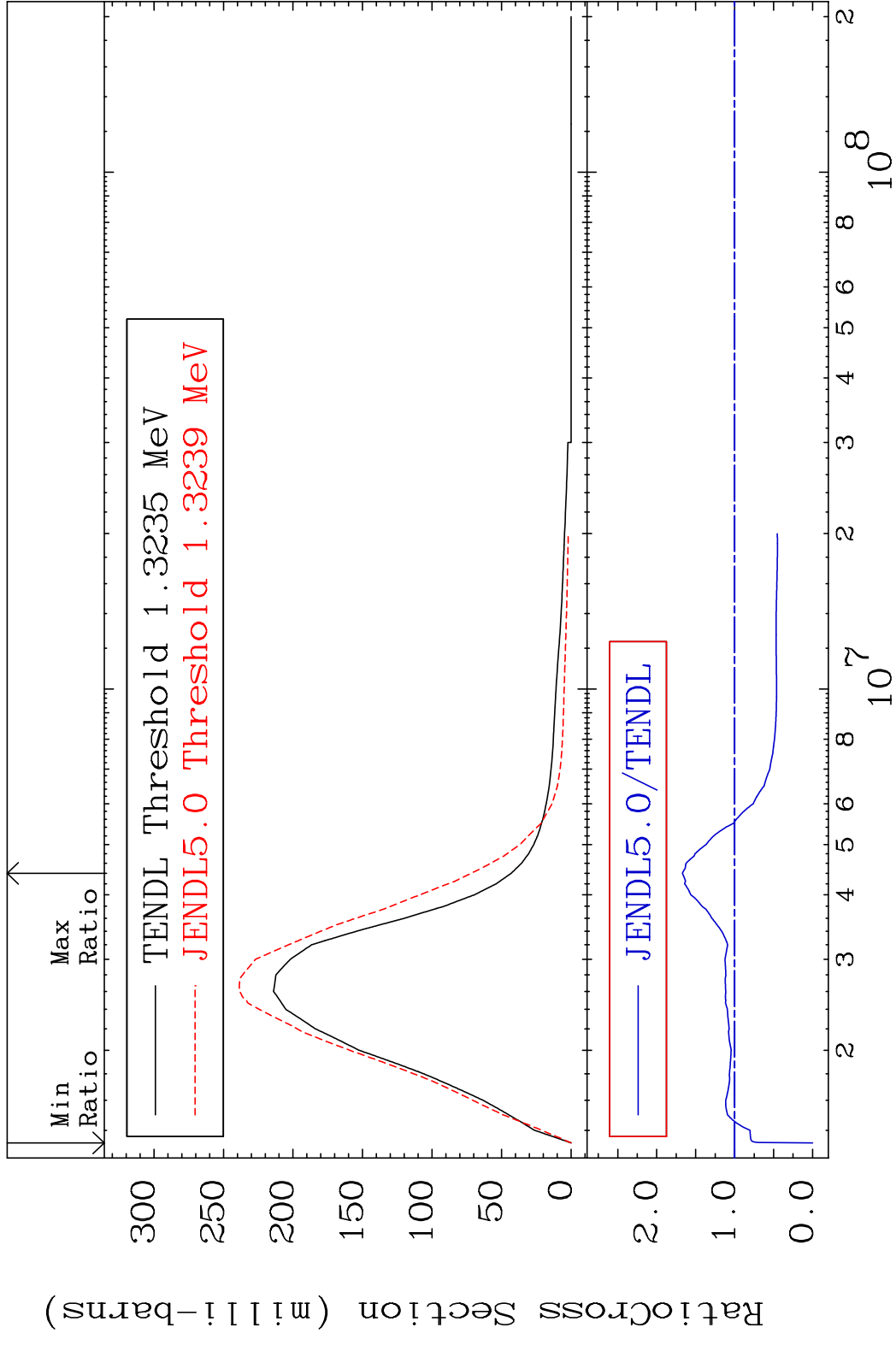
MAT 5825 MT= 52 (n, n') Level 58-Ce-136
 Cross Section -100.0 To 9999. %



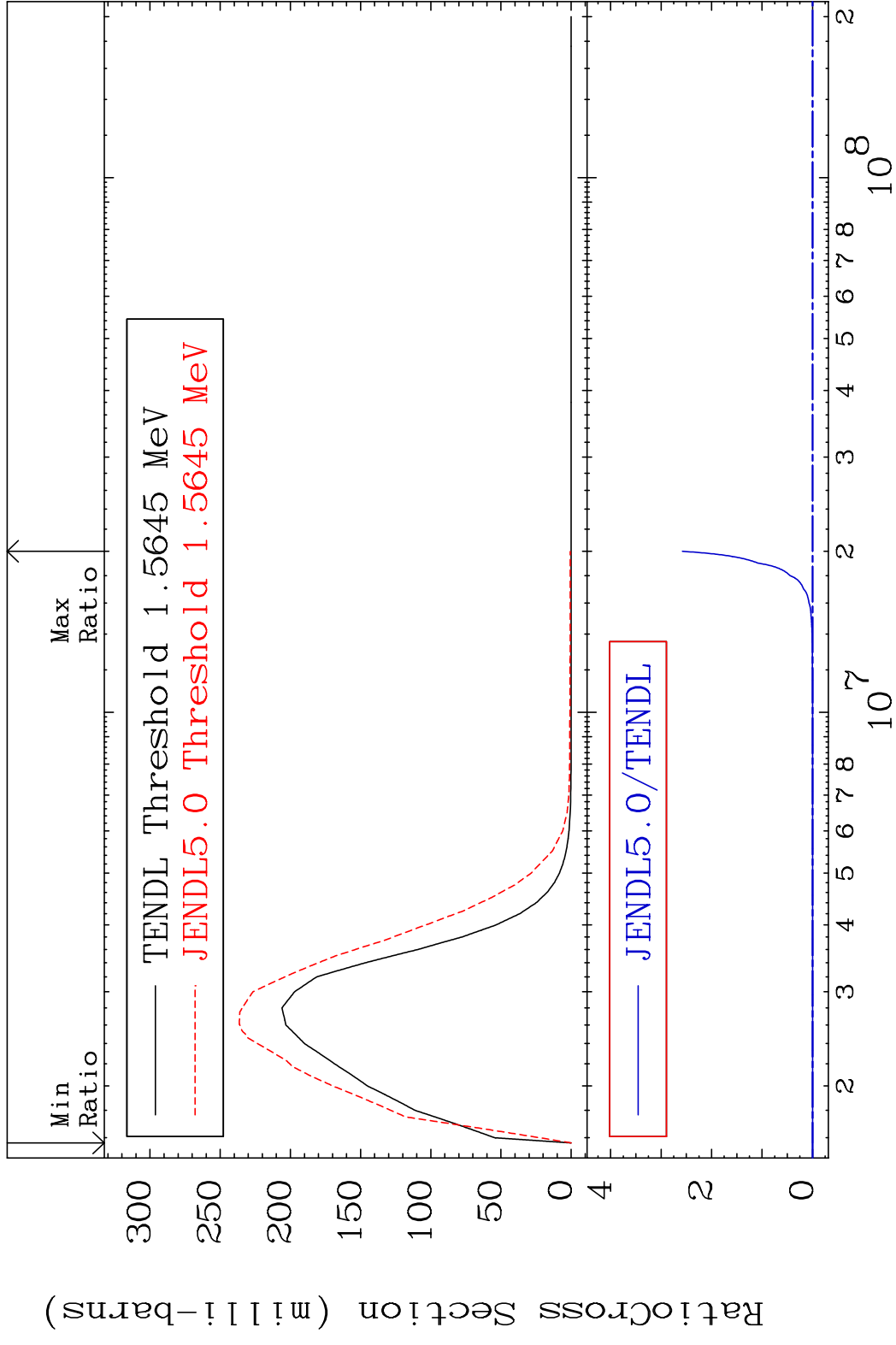
MAT 5825 MT= 53 (n, n') Level 58-Ce-136
 Cross Section -100.0 To 35.92 %



MAT 5825 MT= 54 (n,n') Level 58-Ce-136
 Cross Section -100.0 To 67.10 %

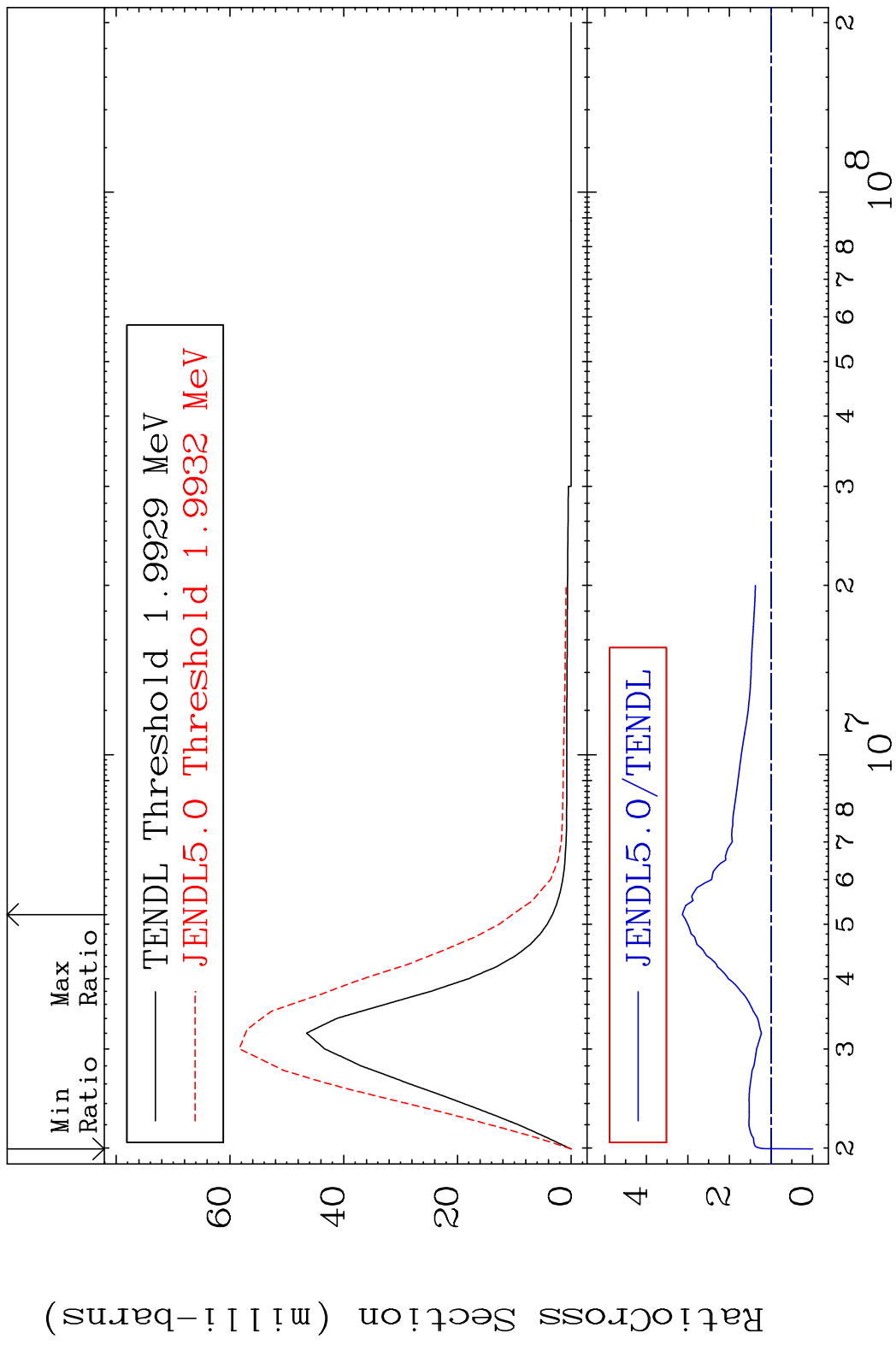


MAT 5825 MT= 55 (n, n') Level 58-Ce-136
 Cross Section -100.0 To 9999. %

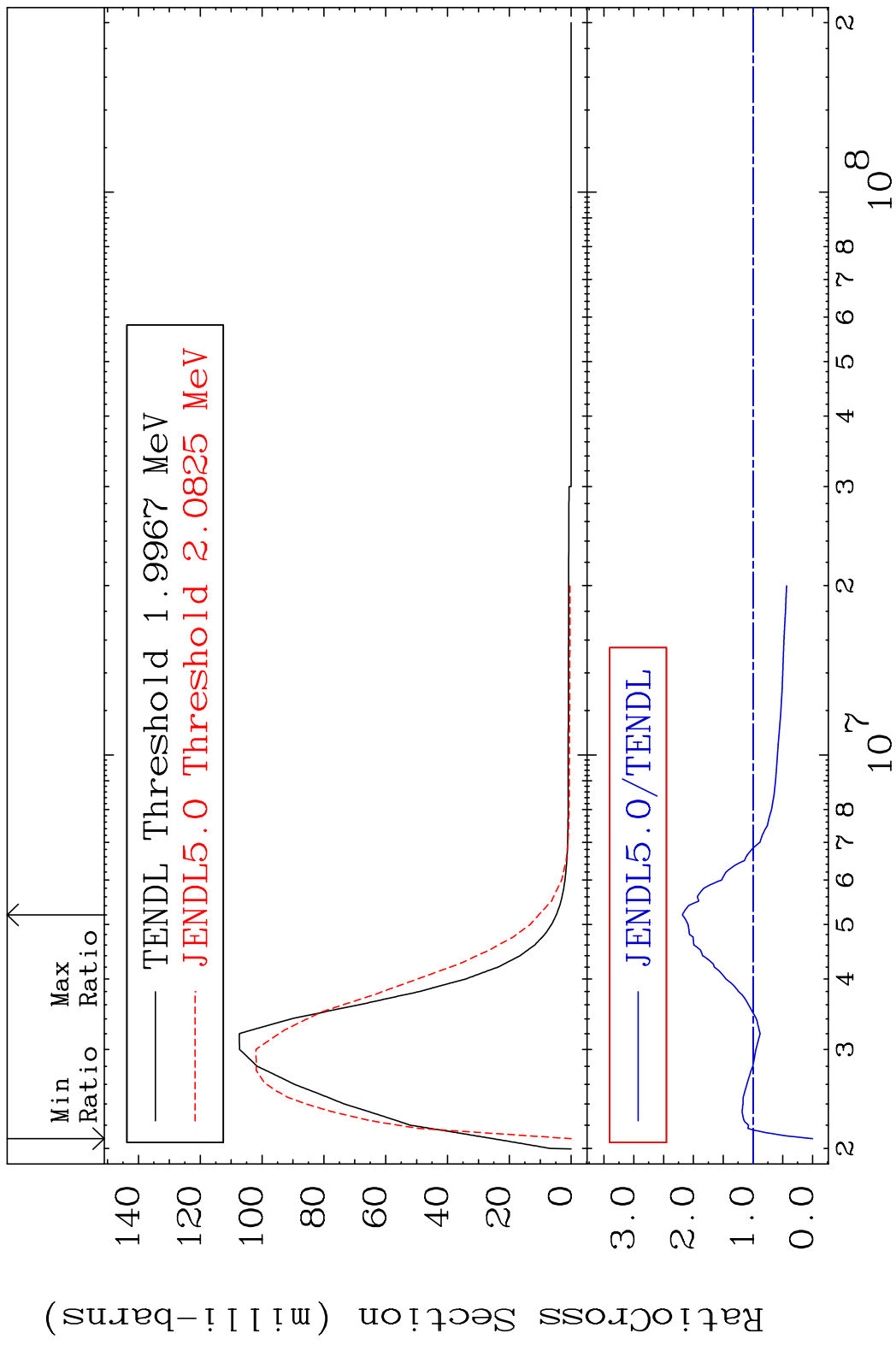


20 Incident Energy (eV) 58-Ce-136

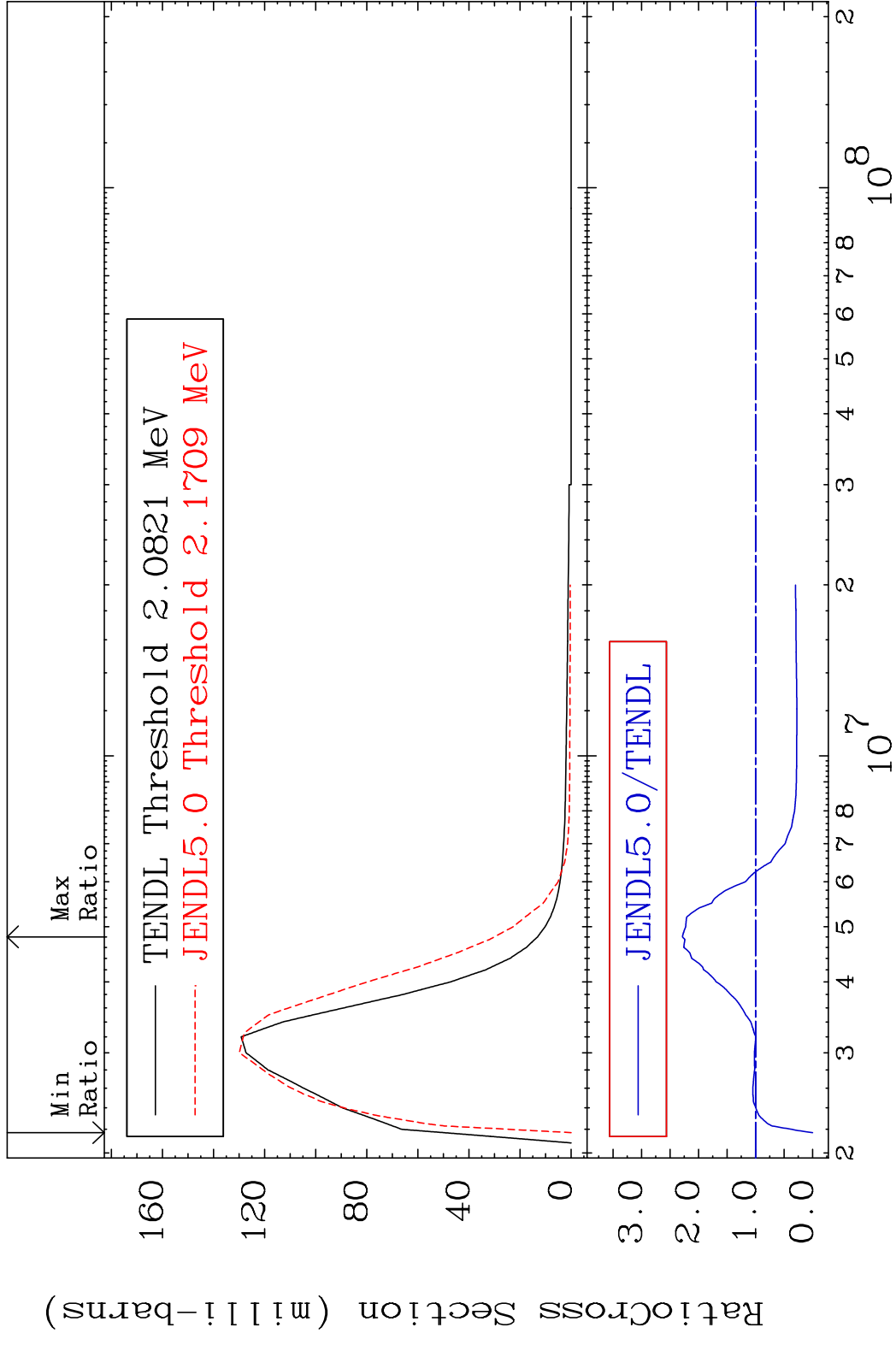
MAT 5825 MT= 56 (n,n') Level 58-Ce-136
 Cross Section -100.0 To 213.4 %



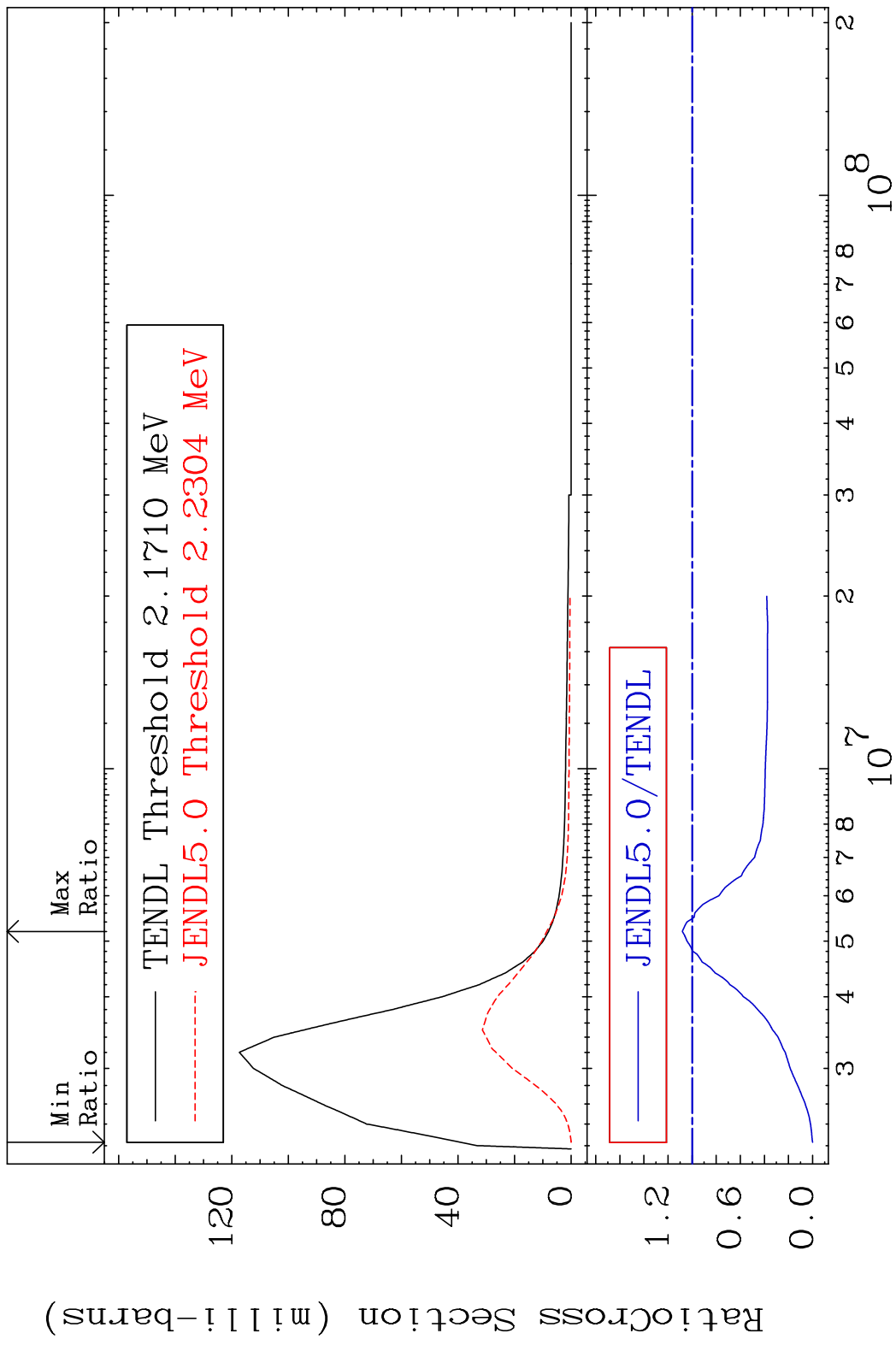
MAT 5825 MT= 57 (n,n') Level 58-Ce-136
 Cross Section -100.0 To 118.6 %



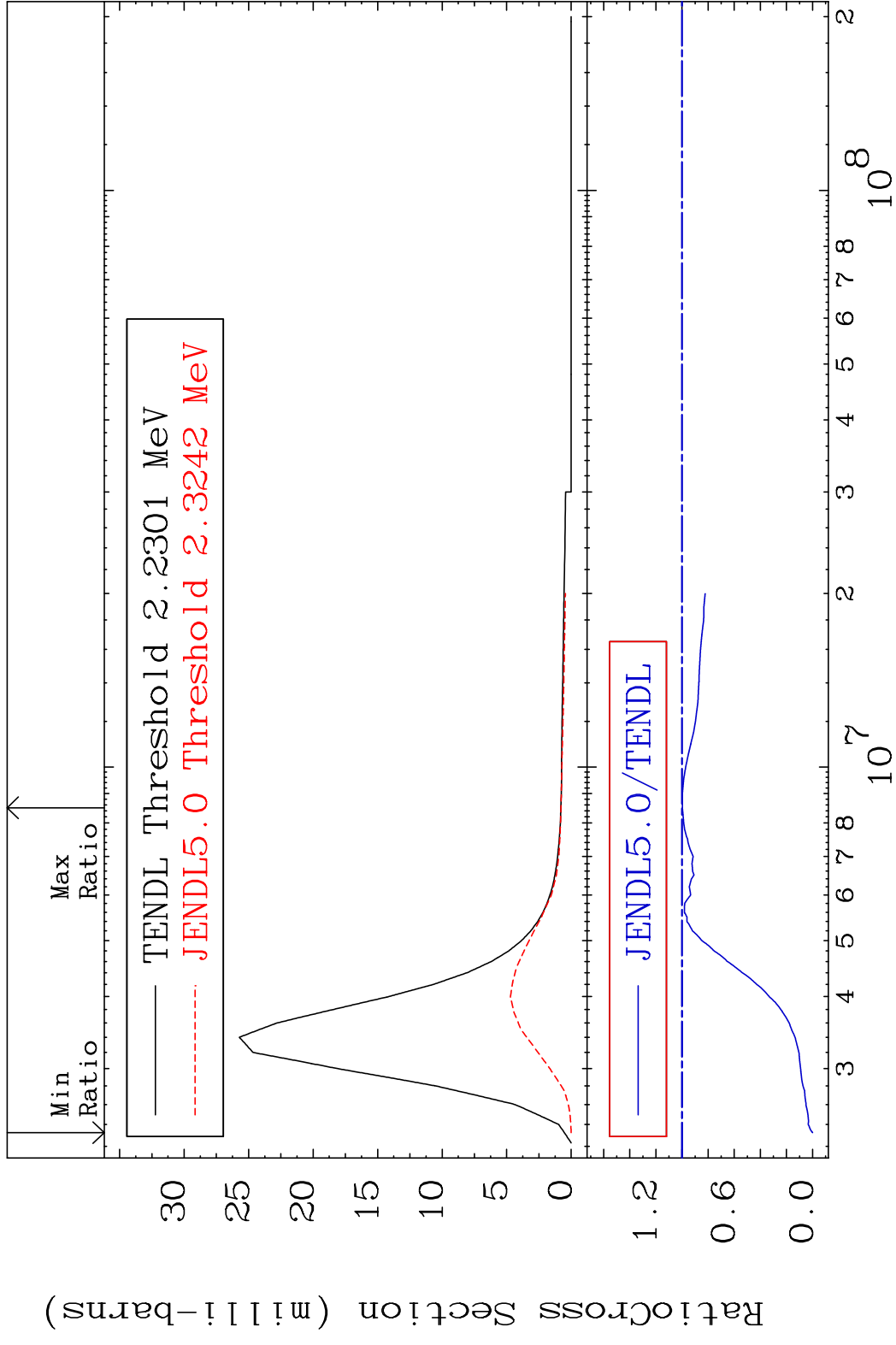
MAT 5825 MT= 58 (n,n') Level 58-Ce-136
 Cross Section -100.0 To 128.3 %



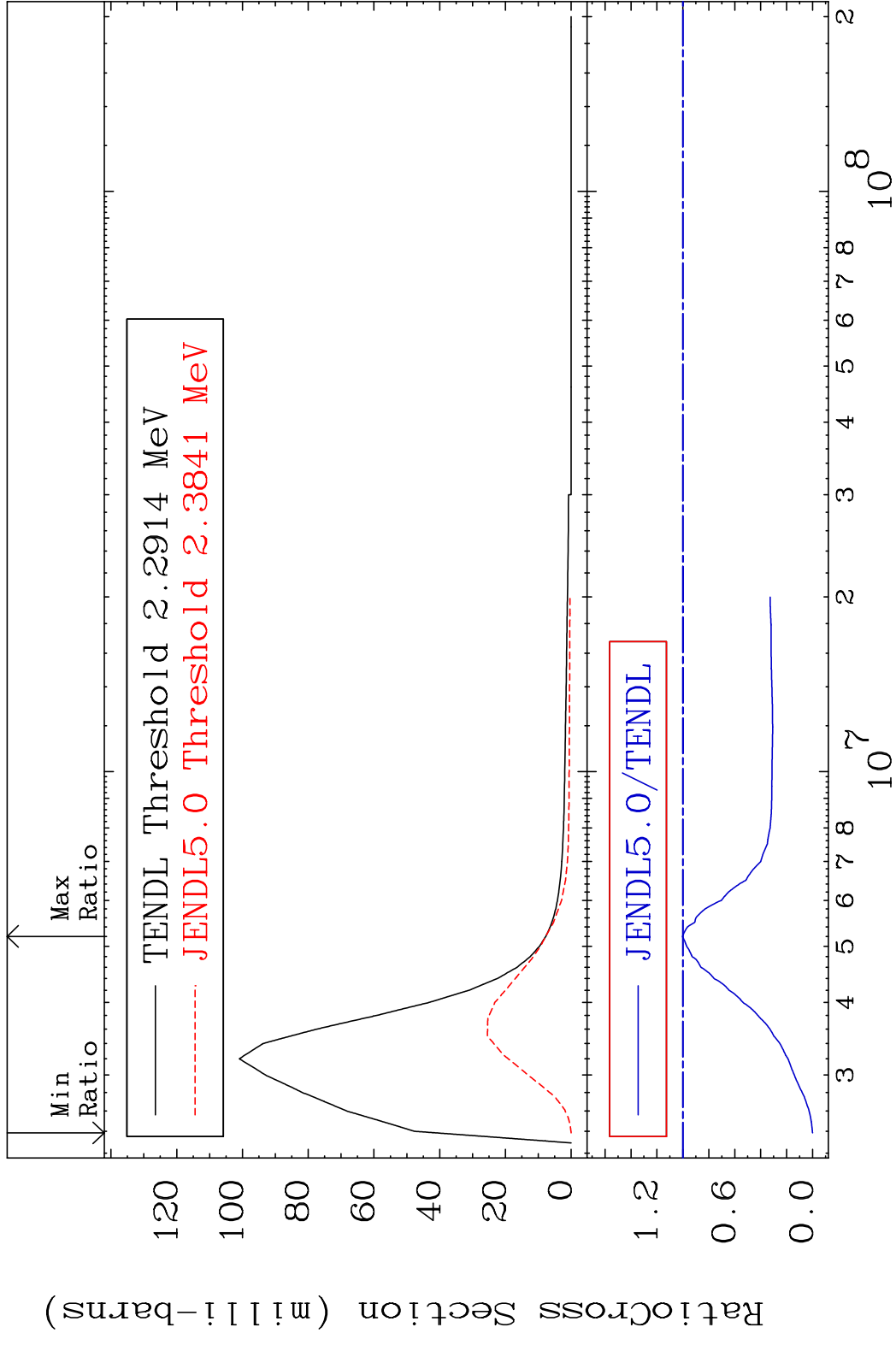
MAT 5825 MT= 59 (n,n') Level 58-Ce-136
 Cross Section -100.0 To 8.096 %



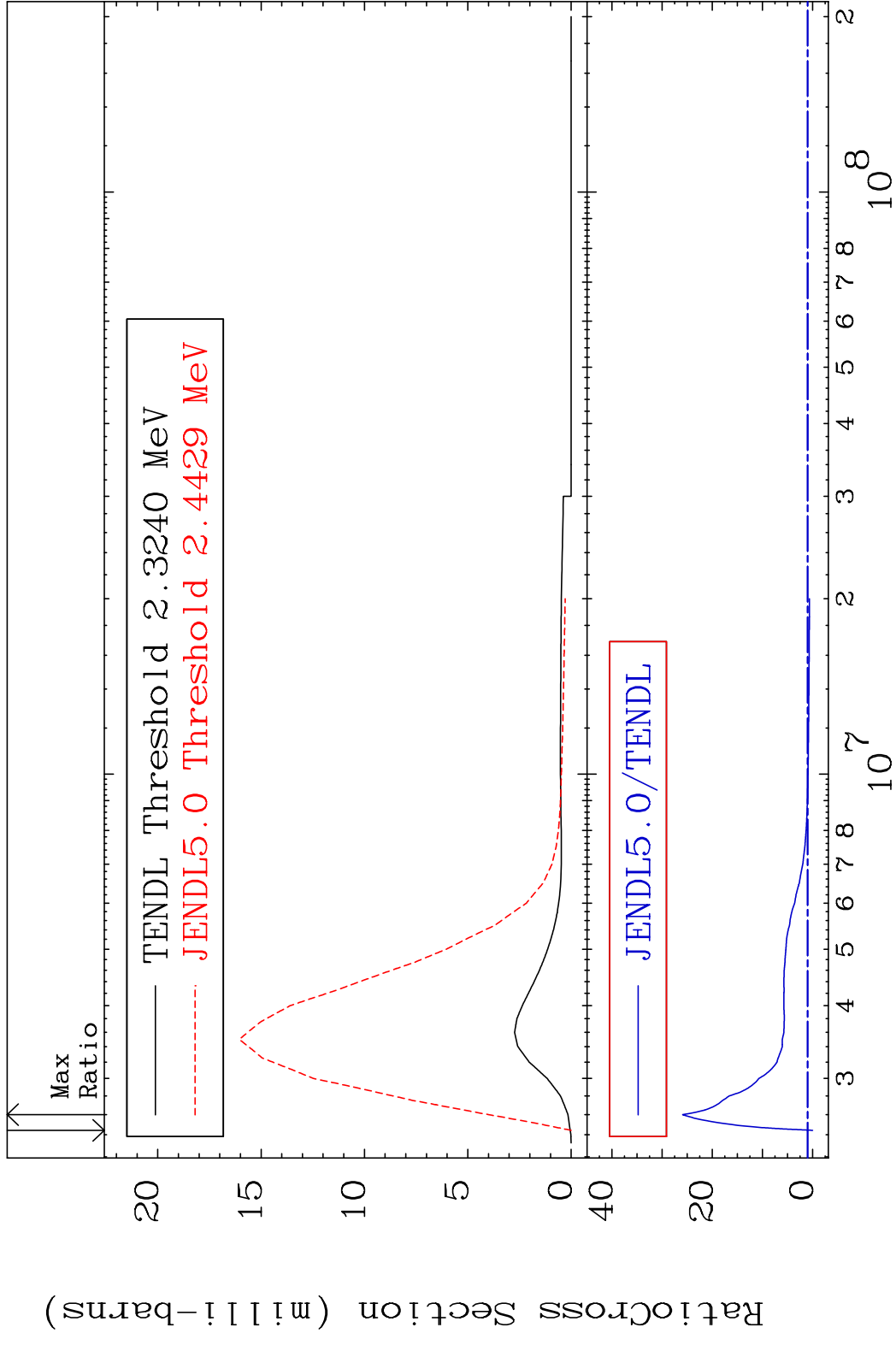
MAT 5825 MT= 60 (n,n') Level 58-Ce-136
 Cross Section -100.0 To -0.254%



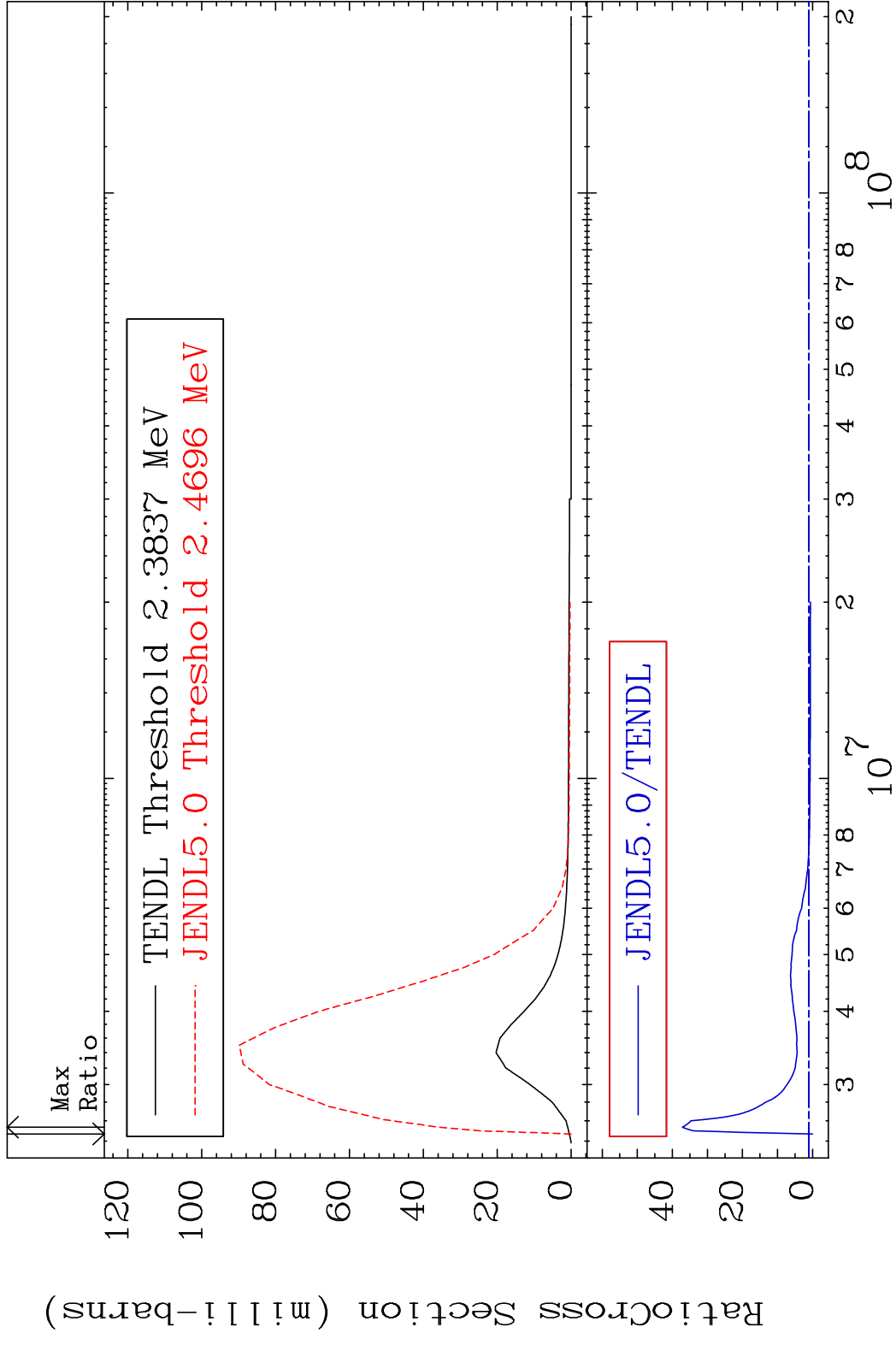
MAT 5825 MT= 61 (n,n') Level 58-Ce-136
 Cross Section -100.0 To 0.385 %



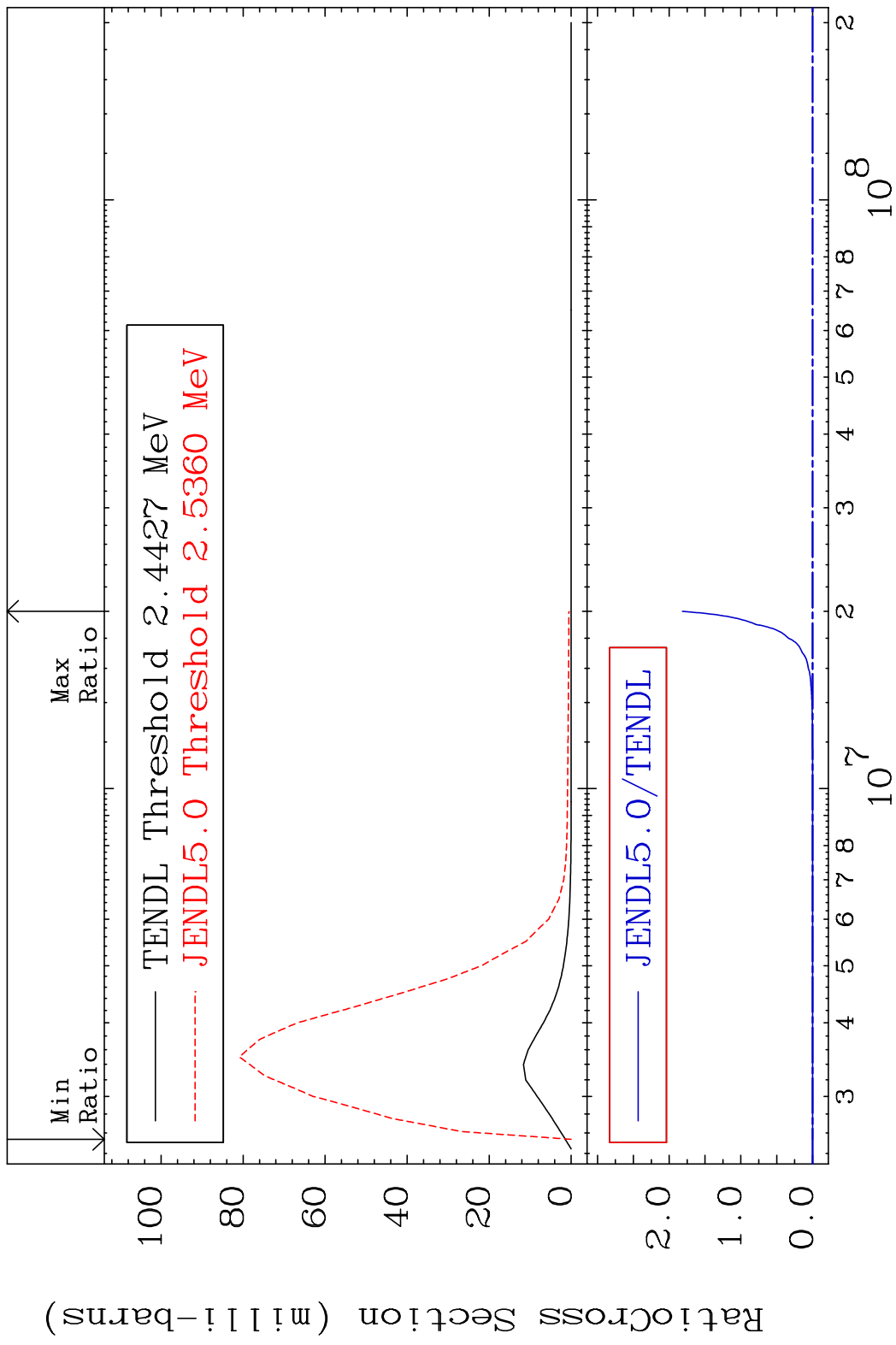
MAT 5825 MT= 62 (n,n') Level 58-Ce-136
 Cross Section -100.0 To 2497. %



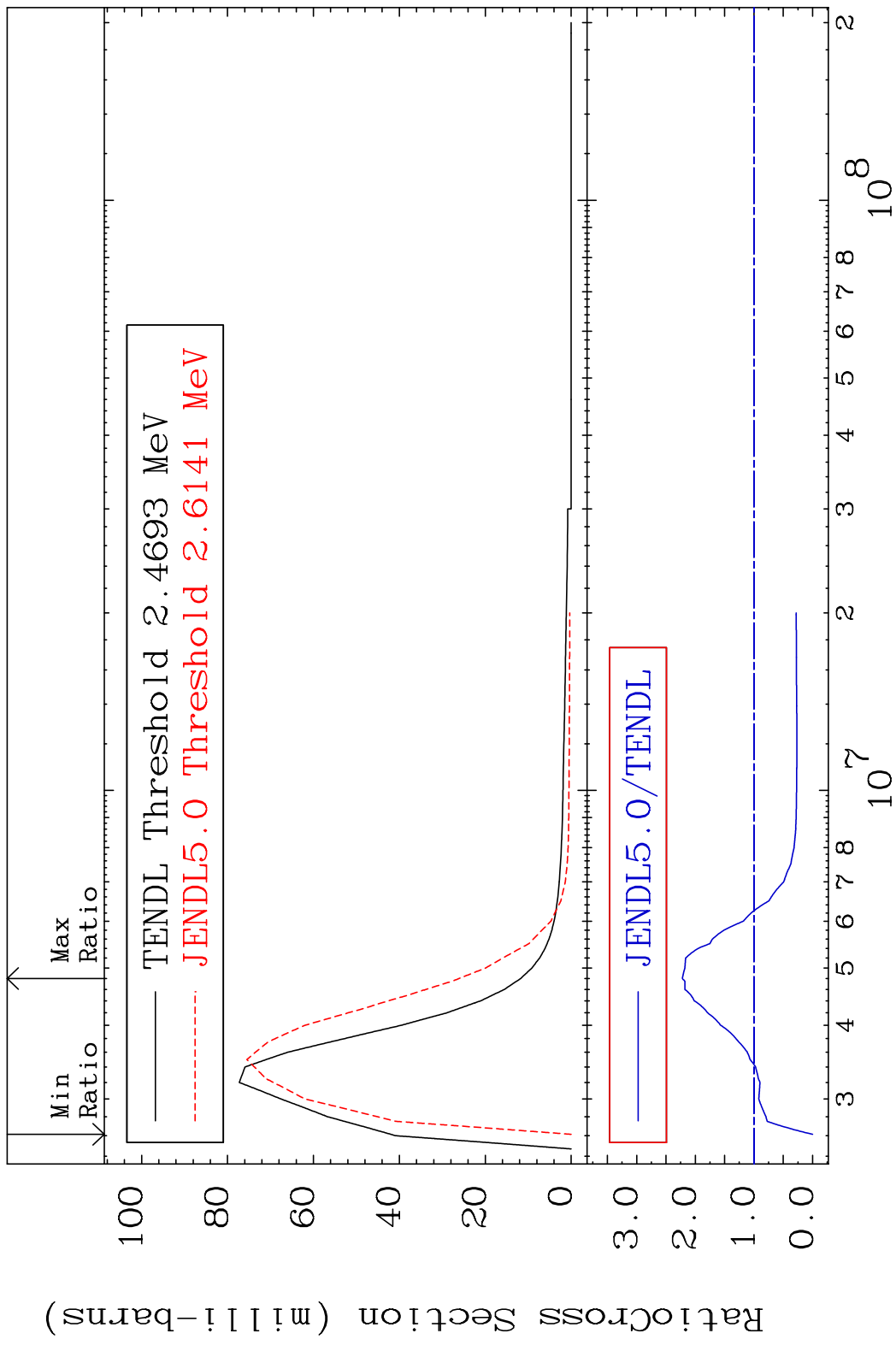
MAT 5825 MT= 63 (n,n') Level 58-Ce-136
 Cross Section -100.0 To 3615. %



MAT 5825 MT= 64 (n, n') Level 58-Ce-136
 Cross Section -100.0 To 9999. %



MAT 5825 MT= 65 (n,n') Level 58-Ce-136
 Cross Section -100.0 To 122.1 %



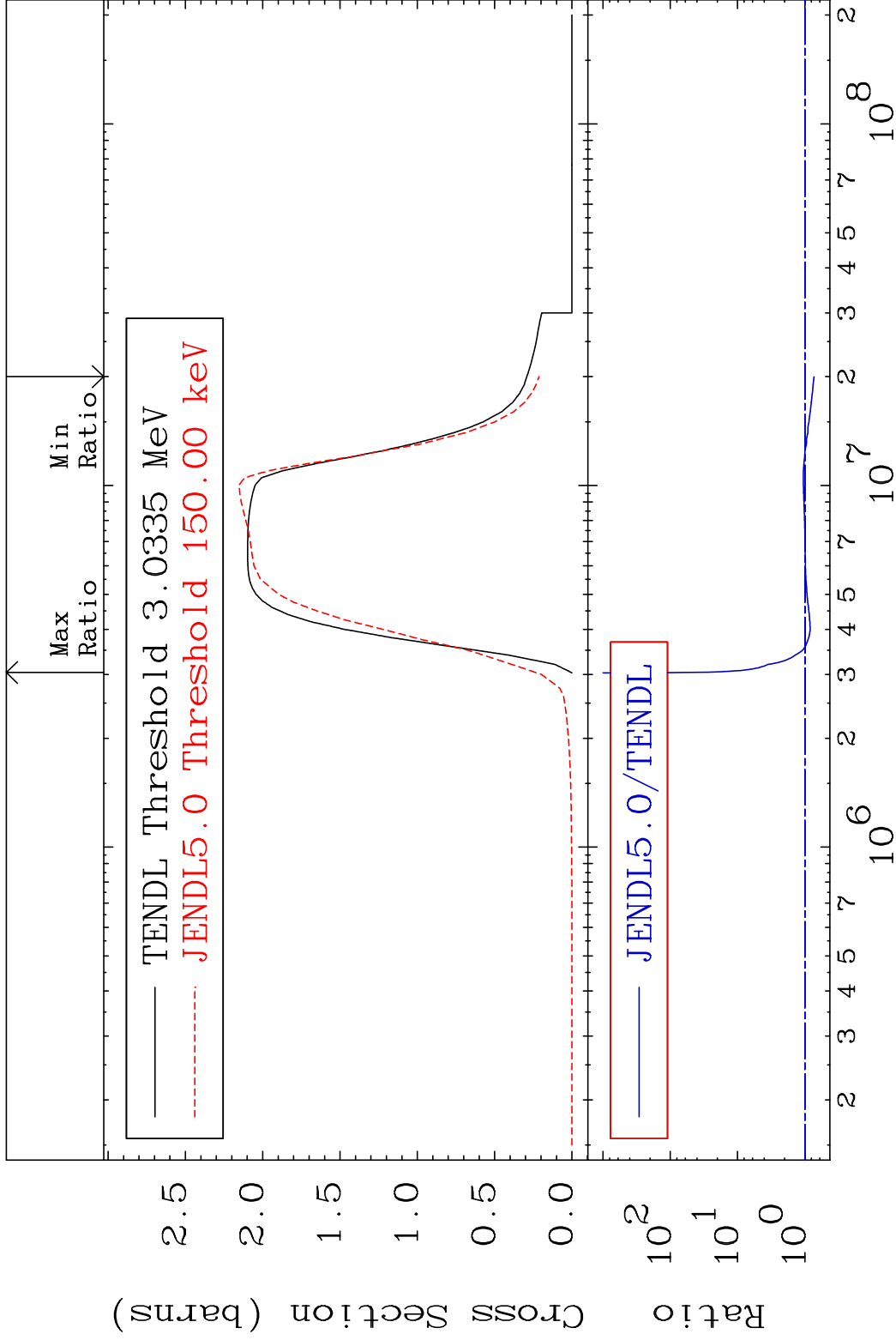
30 Incident Energy (eV) 58-Ce-136

MAT 5825

(n, n') Continuum

58-Ce-136

Cross Section -27.04 To 6277. %

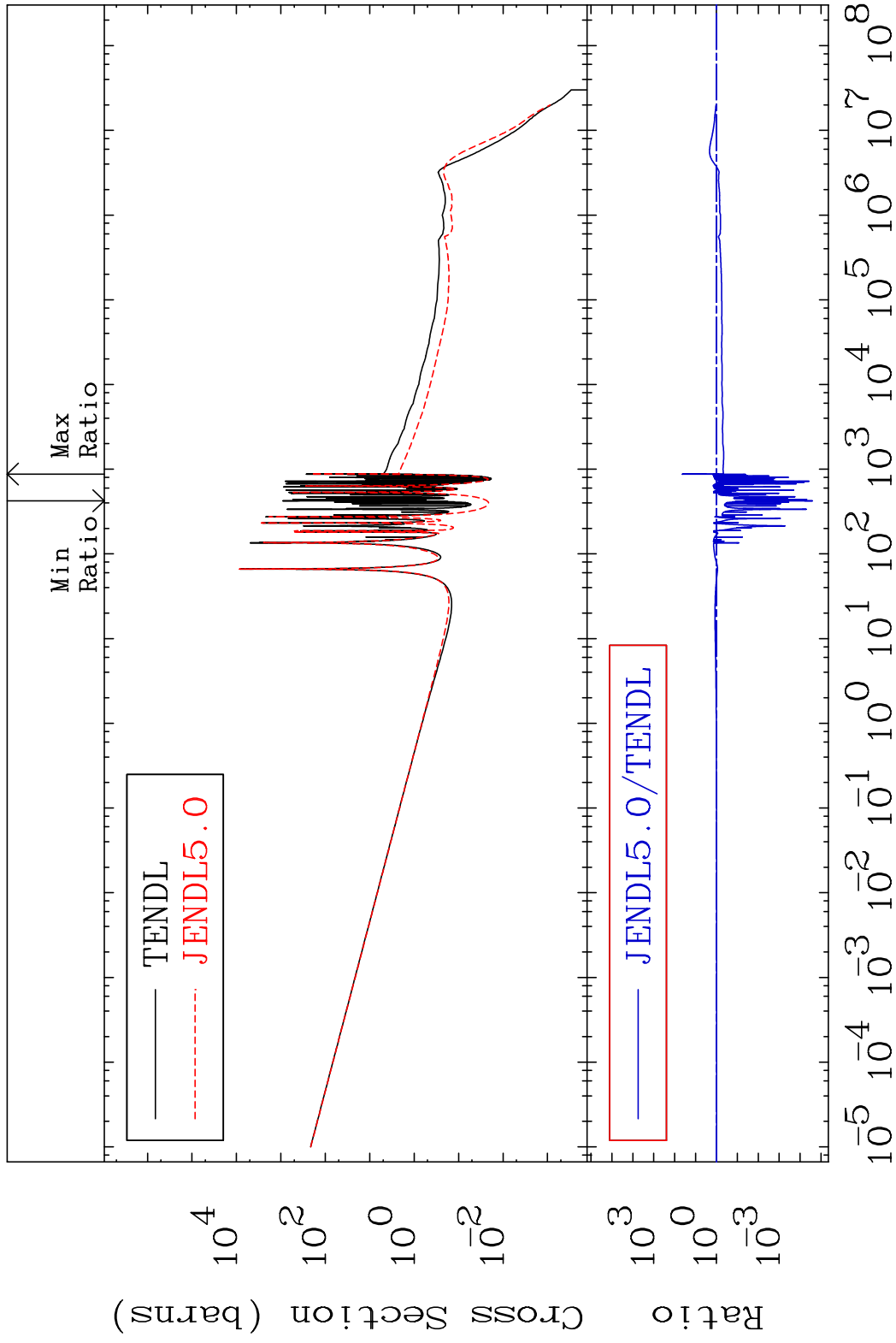


MAT 5825

(n, γ)

58-Ce-136

Cross Section -100.0 To 4177. %



32

Incident Energy (eV)

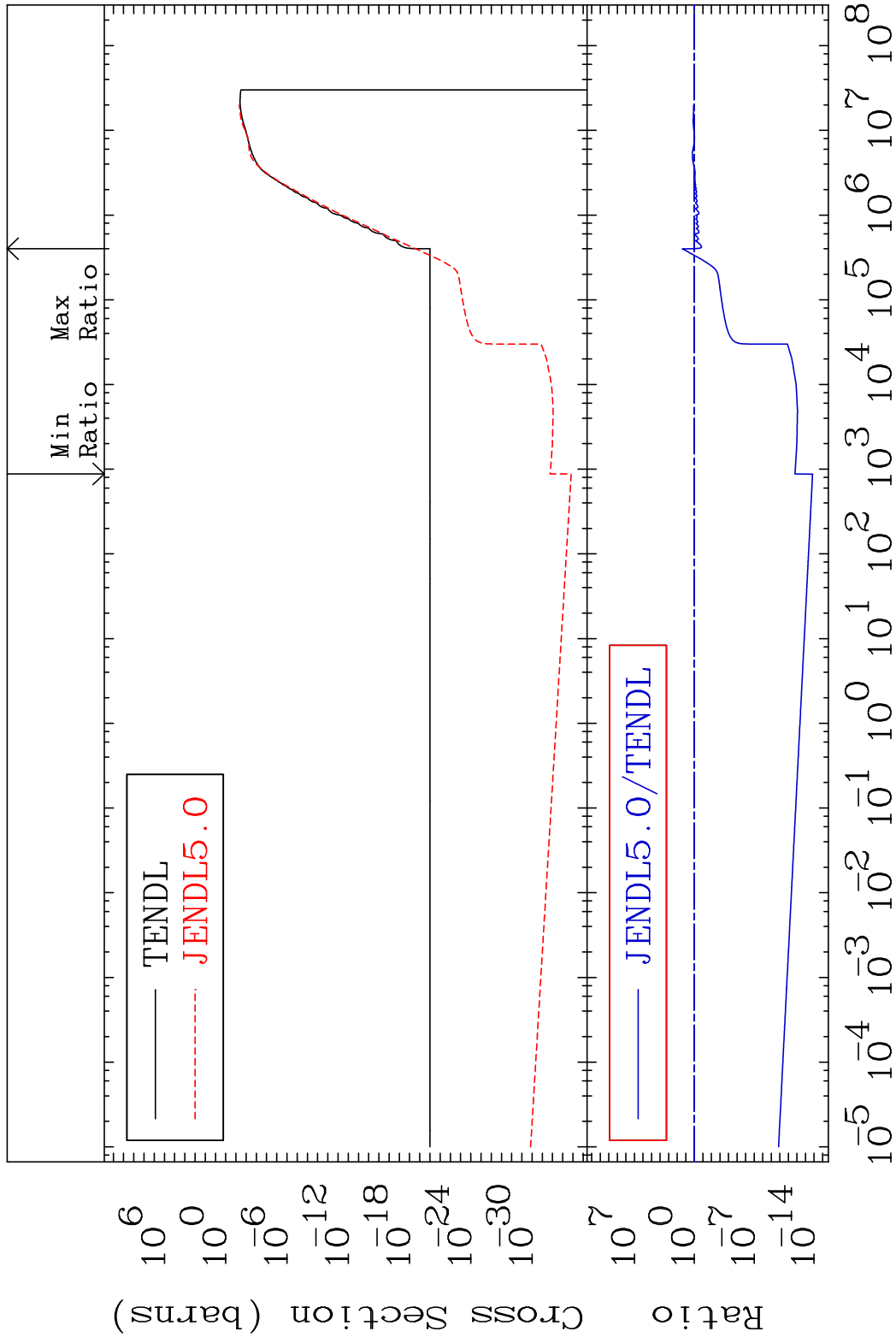
58-Ce-136

MAT 5825

(n, p)

58-Ce-136

Cross Section -100.0 To 2378. %

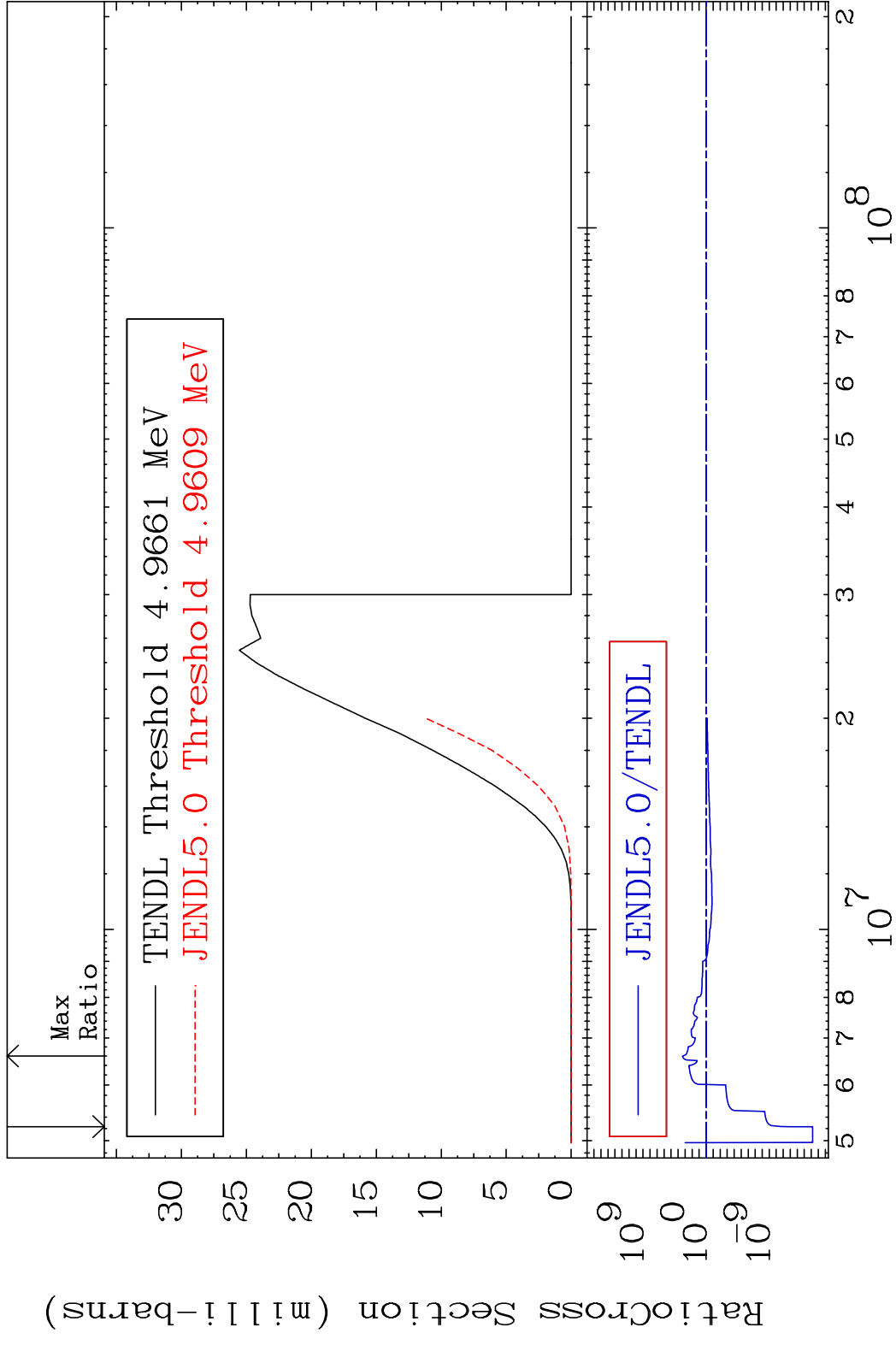


33

Incident Energy (eV)

58-Ce-136

MAT 5825 (n,d) 58-Ce-136
 Cross Section -100.0 To 9999. %

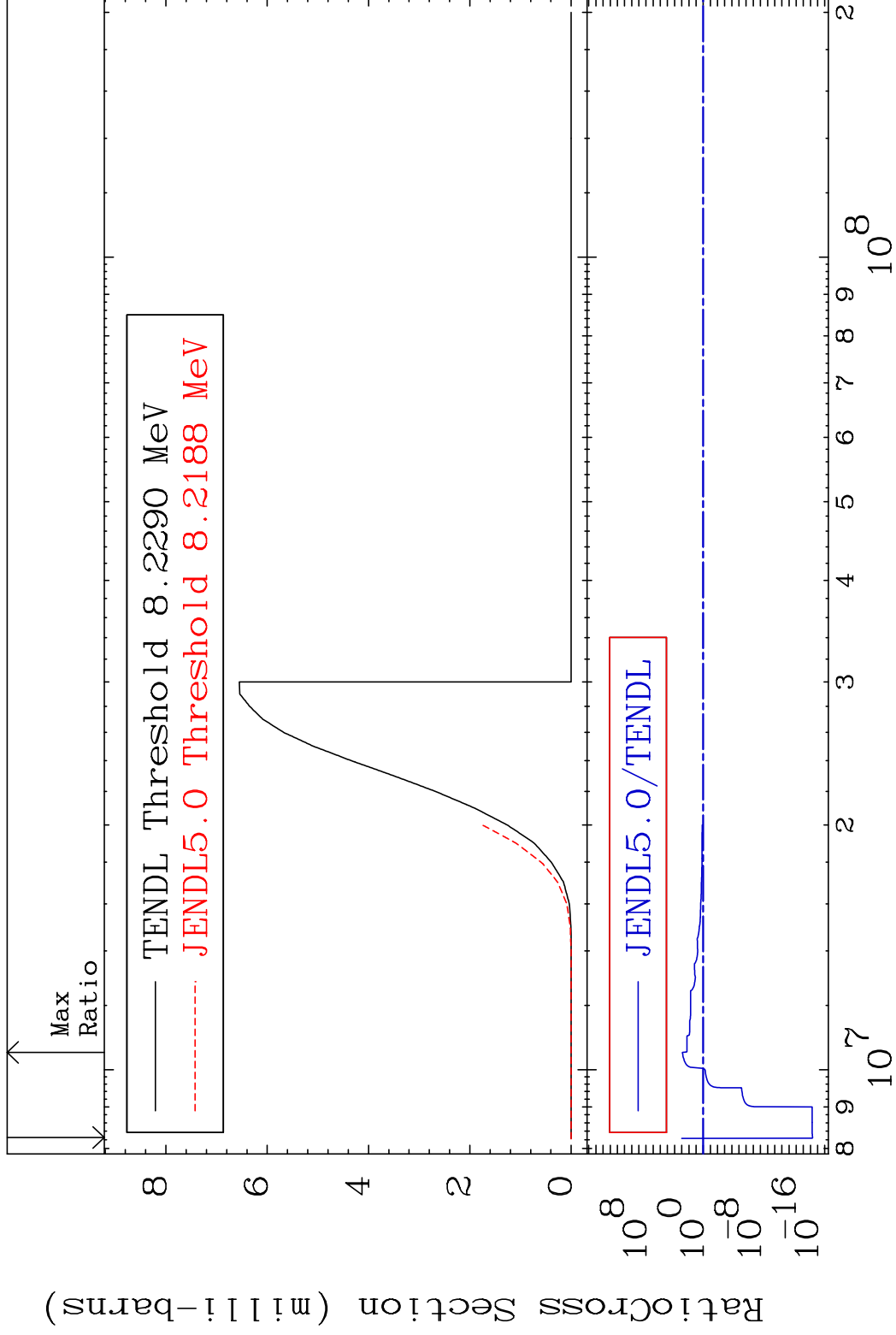


MAT 5825

(n, t)

58-Ce-136

Cross Section -100.0 To 9999. %

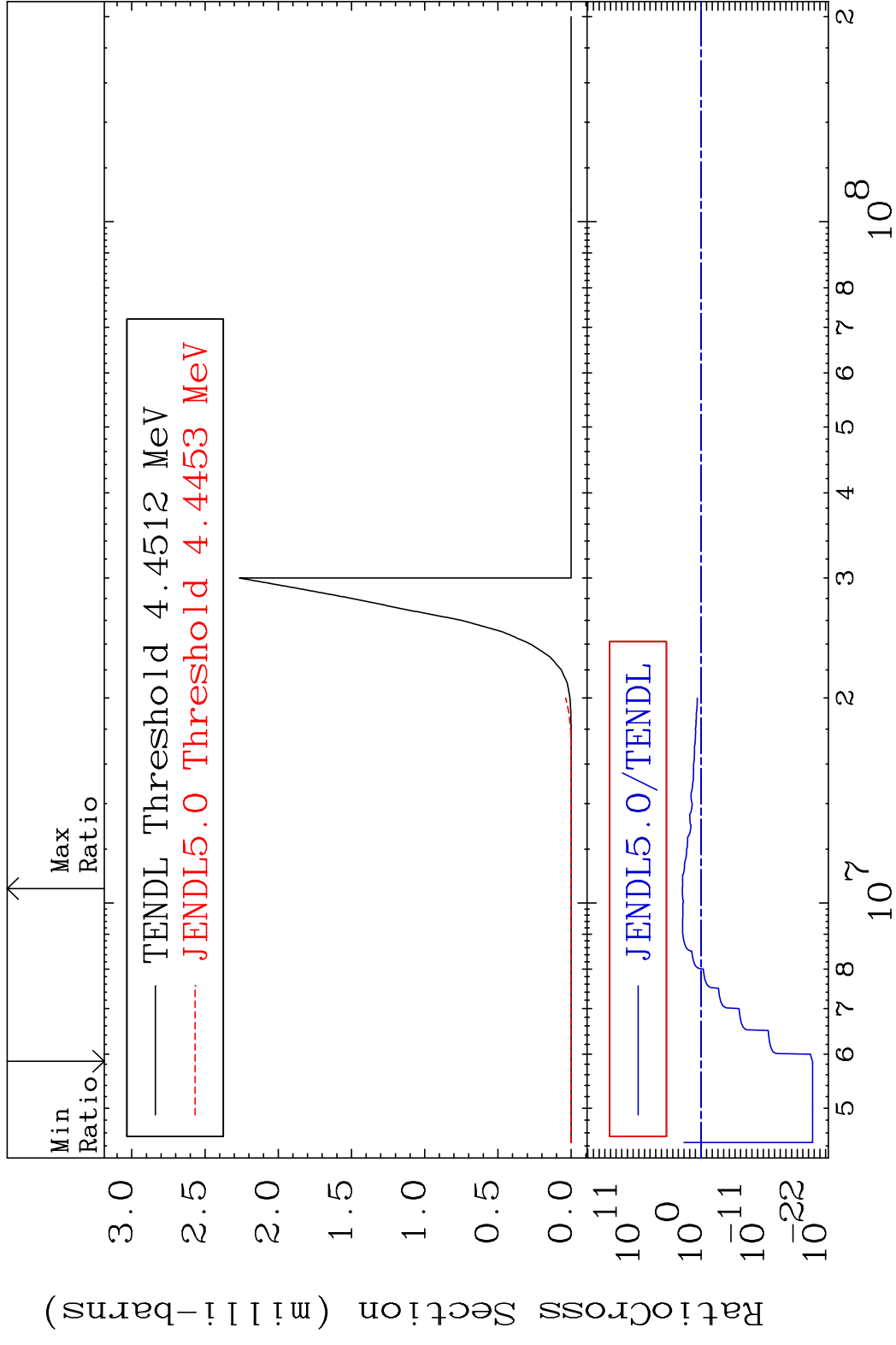


35

Incident Energy (eV)

58-Ce-136

MAT 5825 (n, He-3) 58-Ce-136
 Cross Section -100.0 To 9999. %

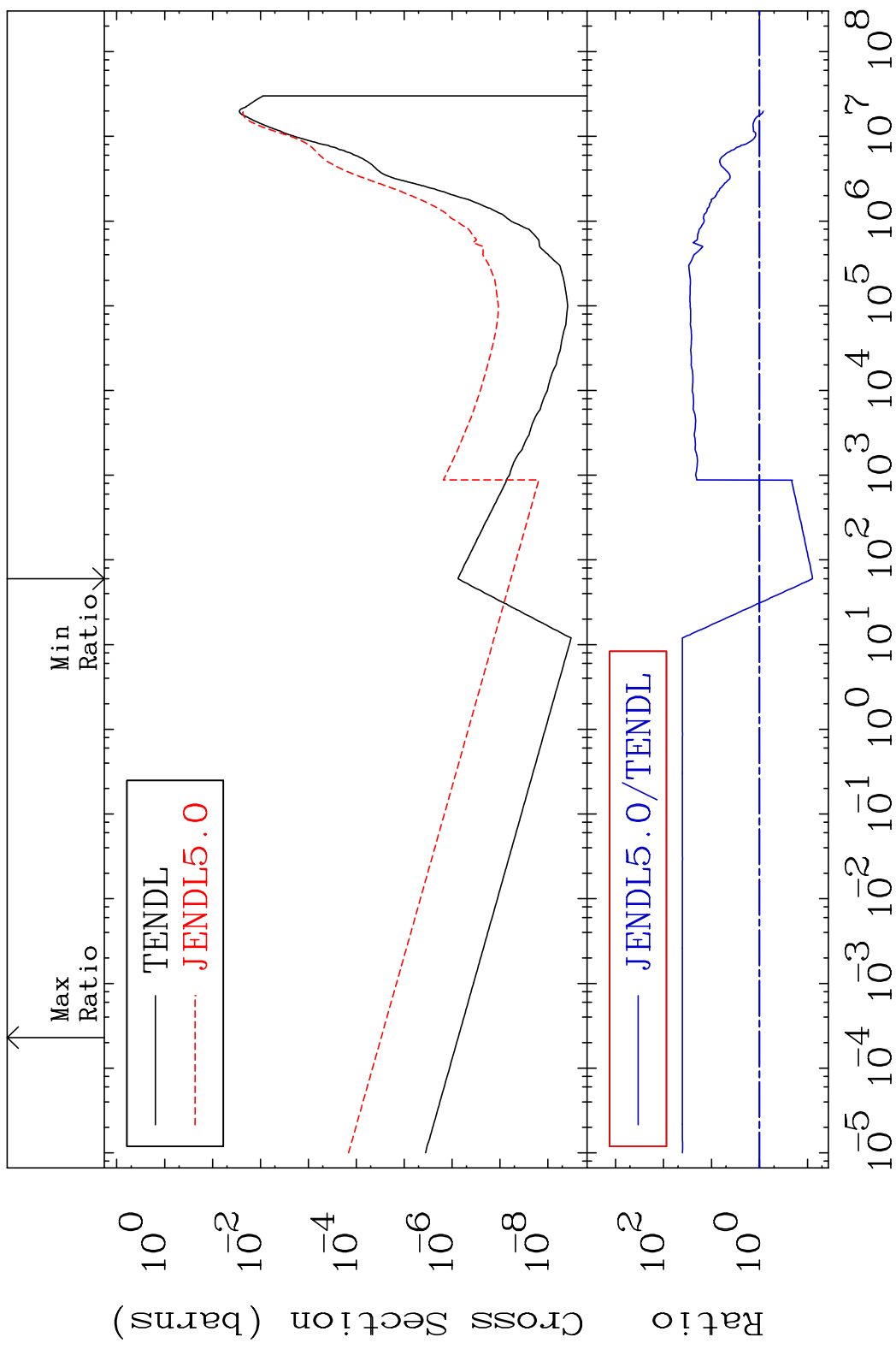


MAT 5825

(n, α)

58-Ce-136

Cross Section -92.13 To 3958. %



37

Incident Energy (eV)

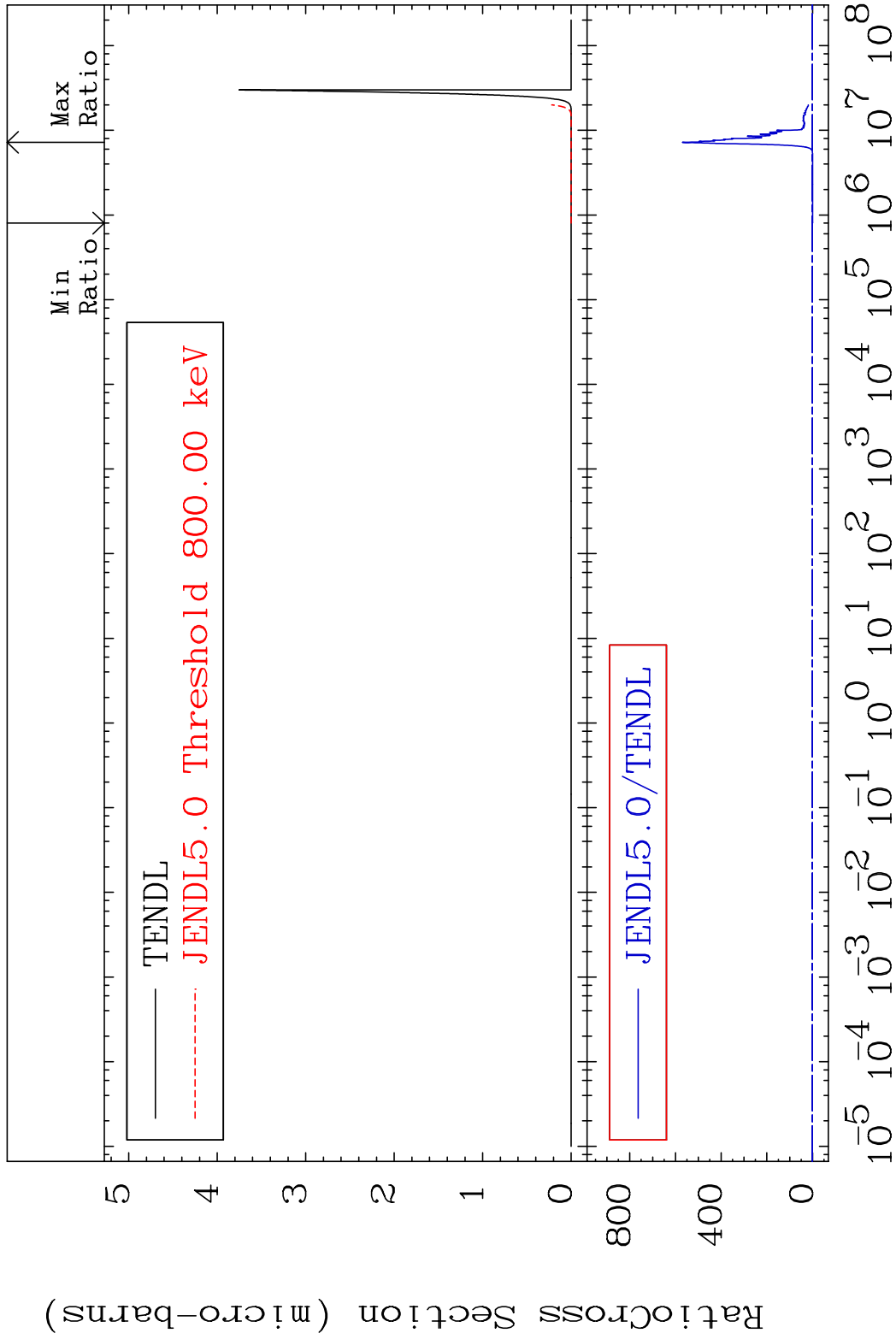
58-Ce-136

MAT 5825

(n,2α)

58-Ce-136

Cross Section -100.0 To 9999. %



38

Incident Energy (eV)

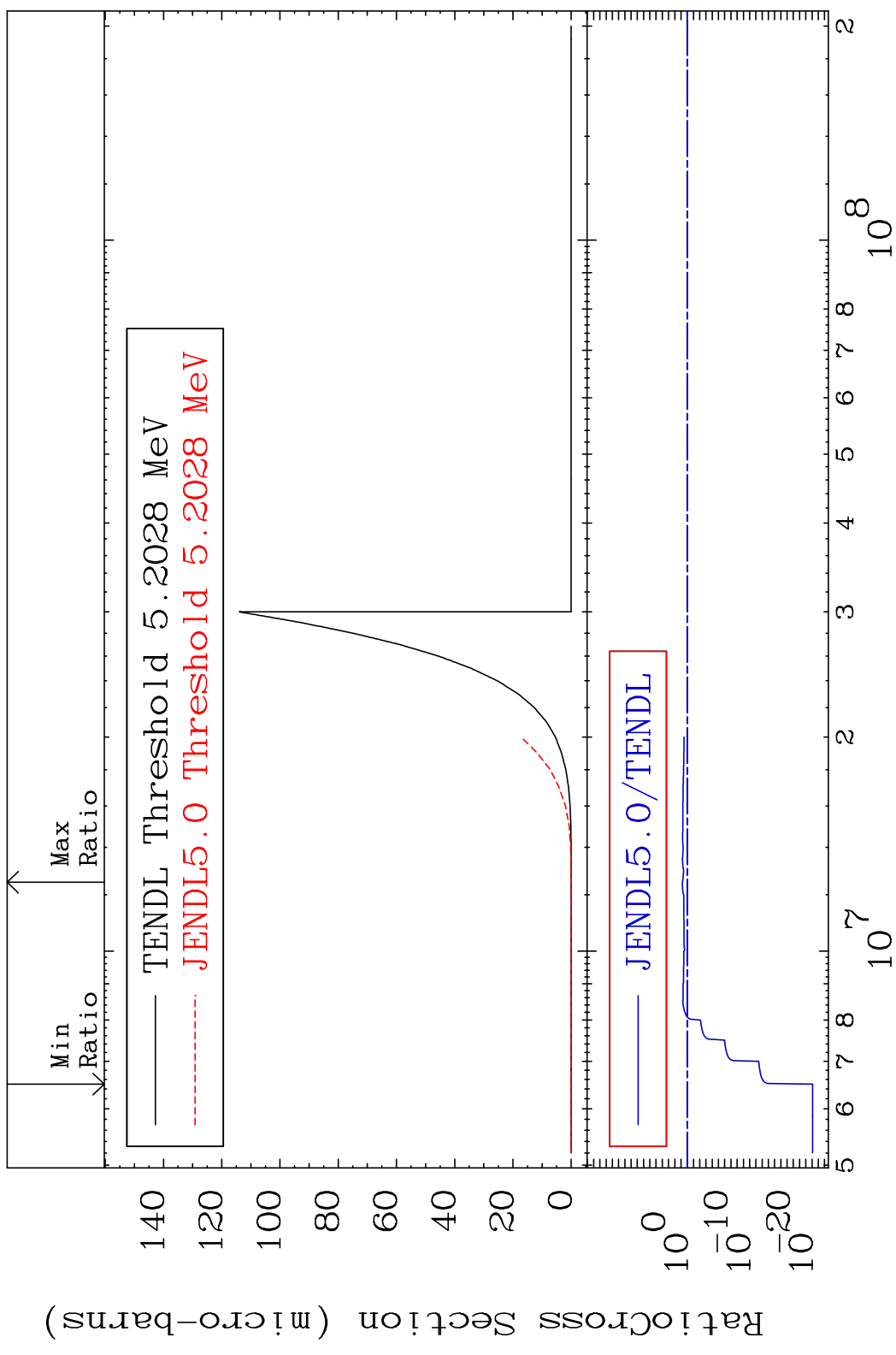
58-Ce-136

MAT 5825

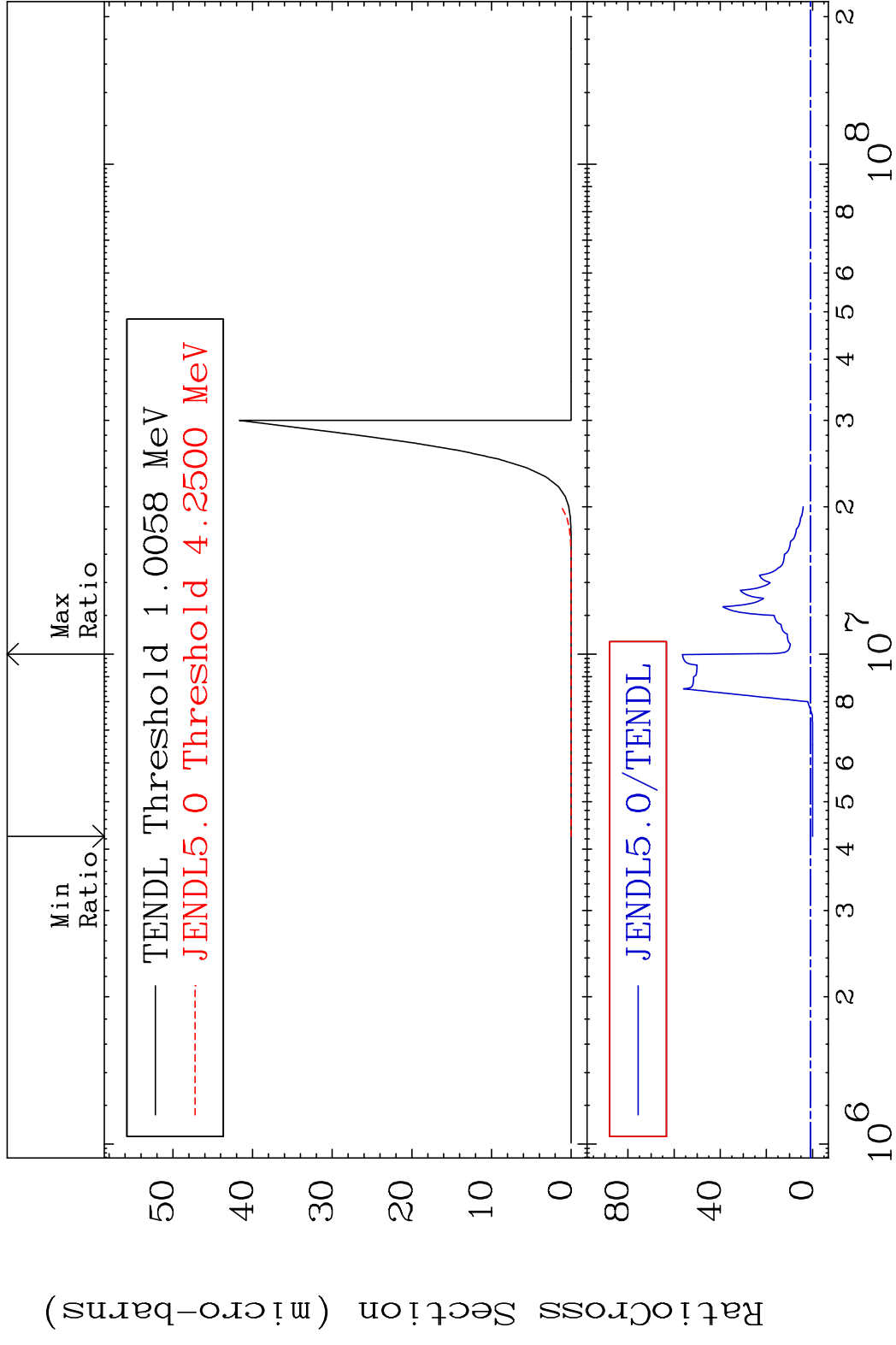
(n,2p)

58-Ce-136

Cross Section -100.0 To 505.8 %

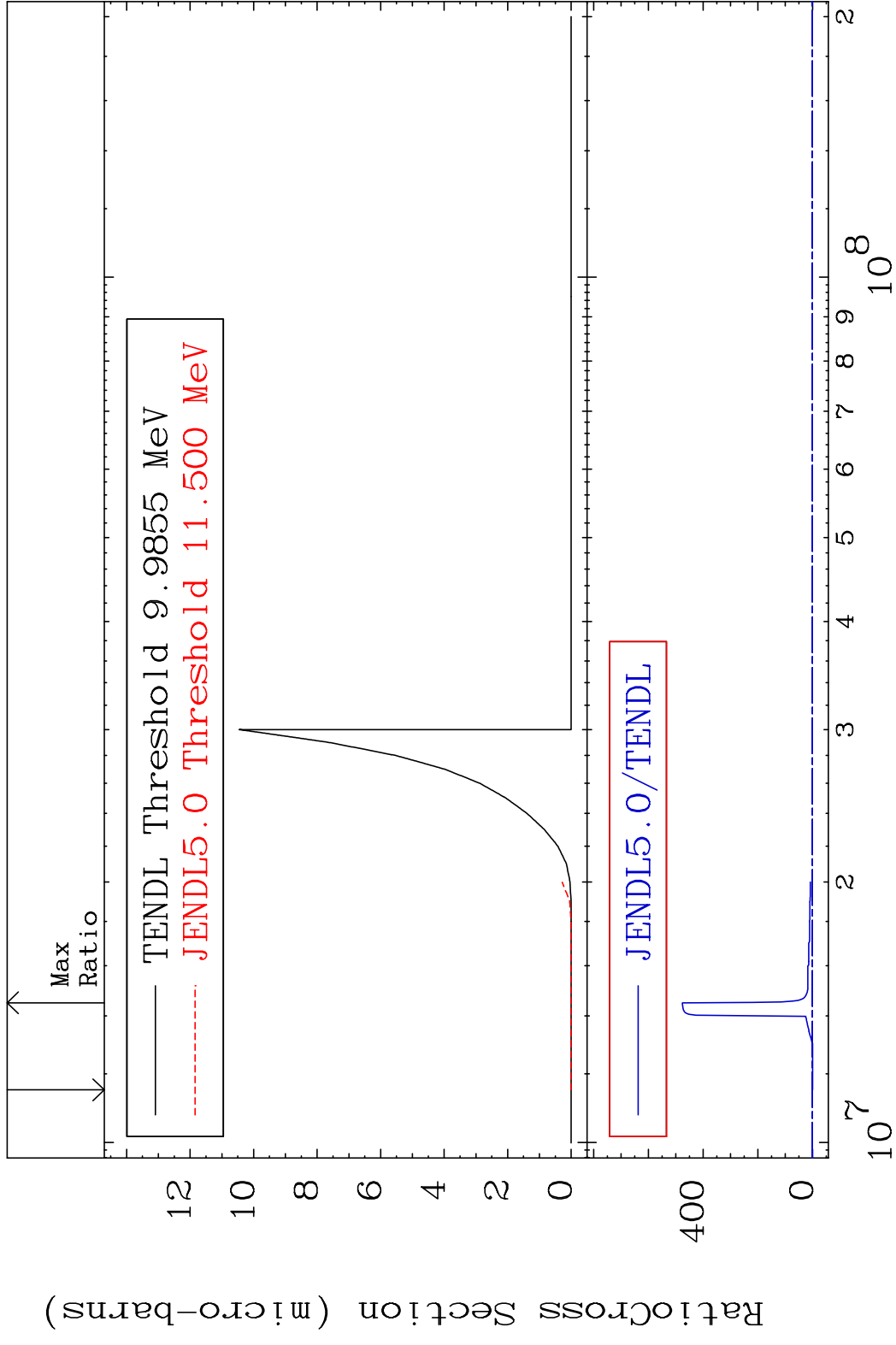


MAT 5825 (n,p) α 58-Ce-136
 Cross Section -100.0 To 5543. %



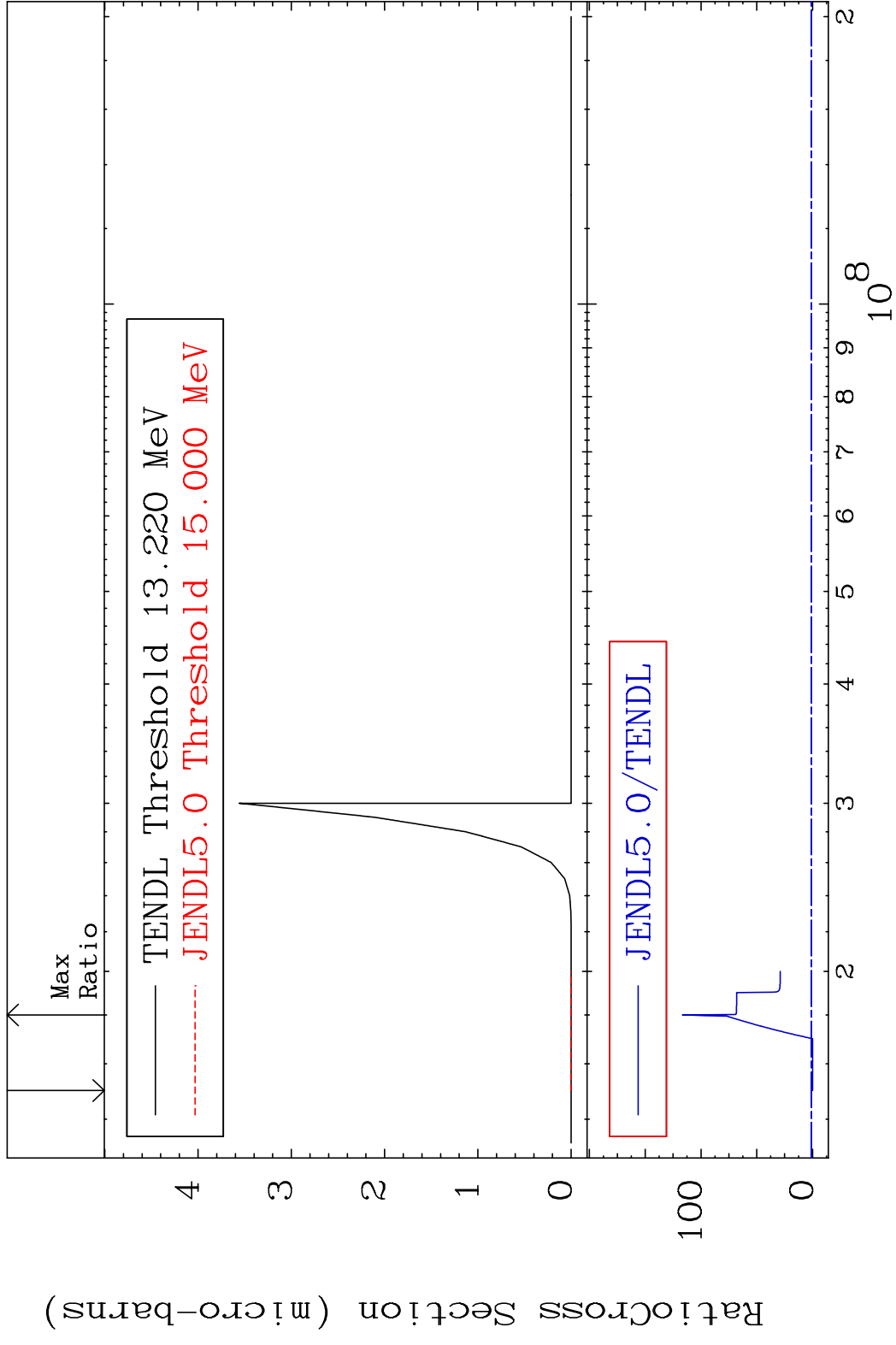
40 2 3 4 5 6 8 10⁶ 10⁷ 10⁸ 2 58-Ce-136

MAT 5825 (n,p) d 58-Ce-136
Cross Section -100.0 To 9999. %



41 Incident Energy (eV) 58-Ce-136

MAT 5825 (n,p) t 58-Ce-136
 Cross Section -100.0 To 9999. %

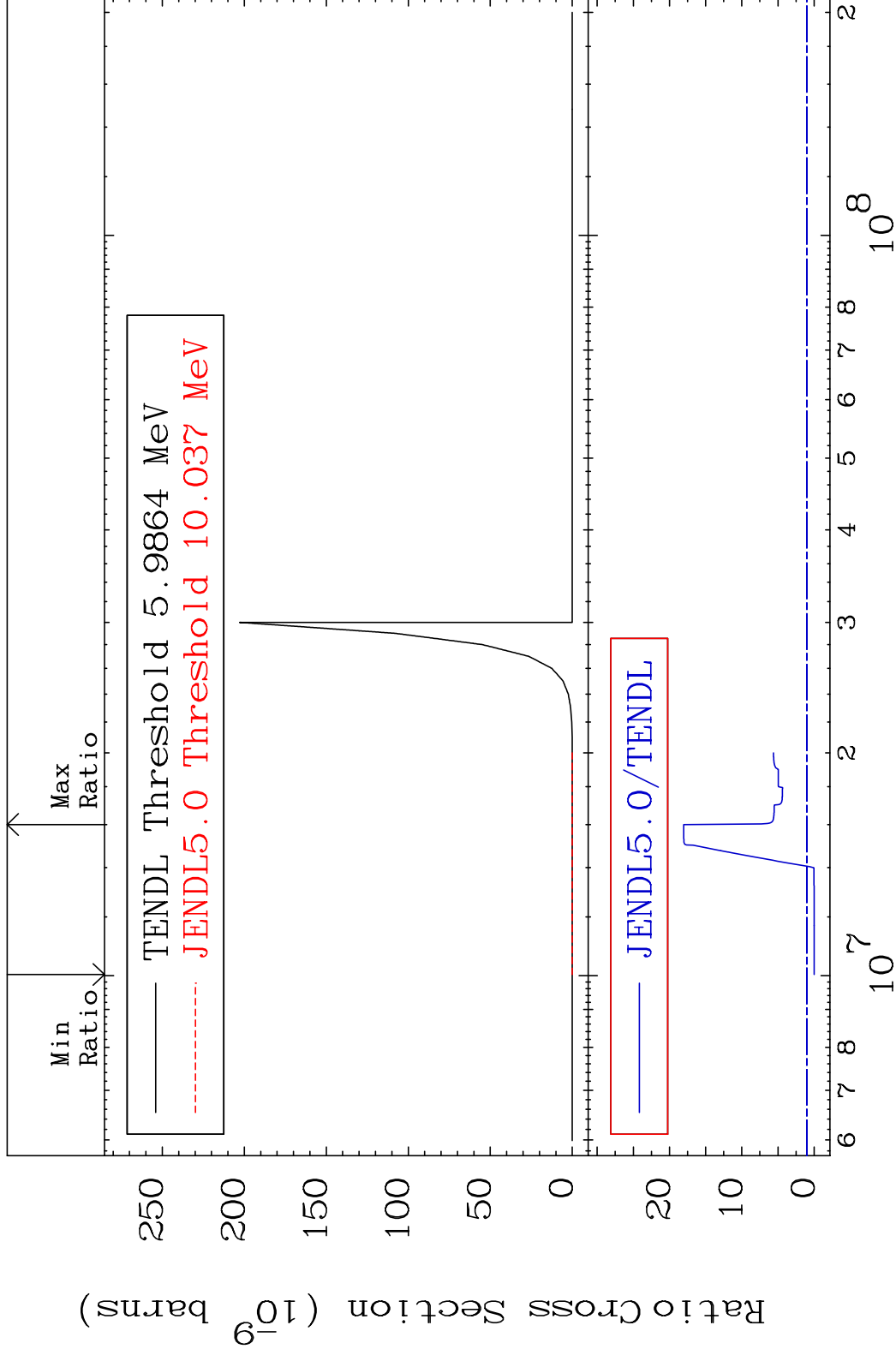


MAT 5825

(n,d) α

58-Ce-136

Cross Section -100.0 To 1704. %



43

Incident Energy (eV)

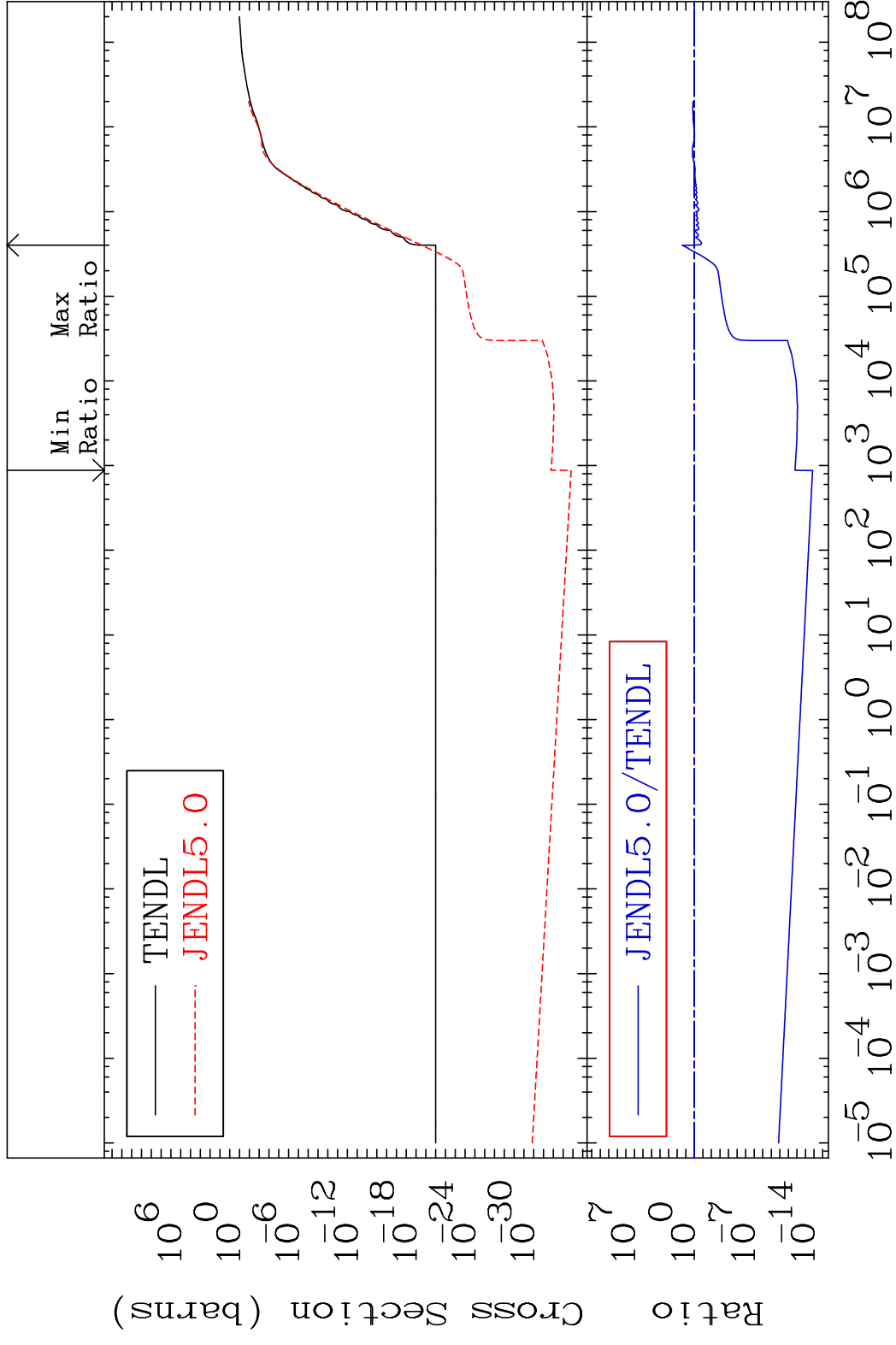
58-Ce-136

MAT 5825

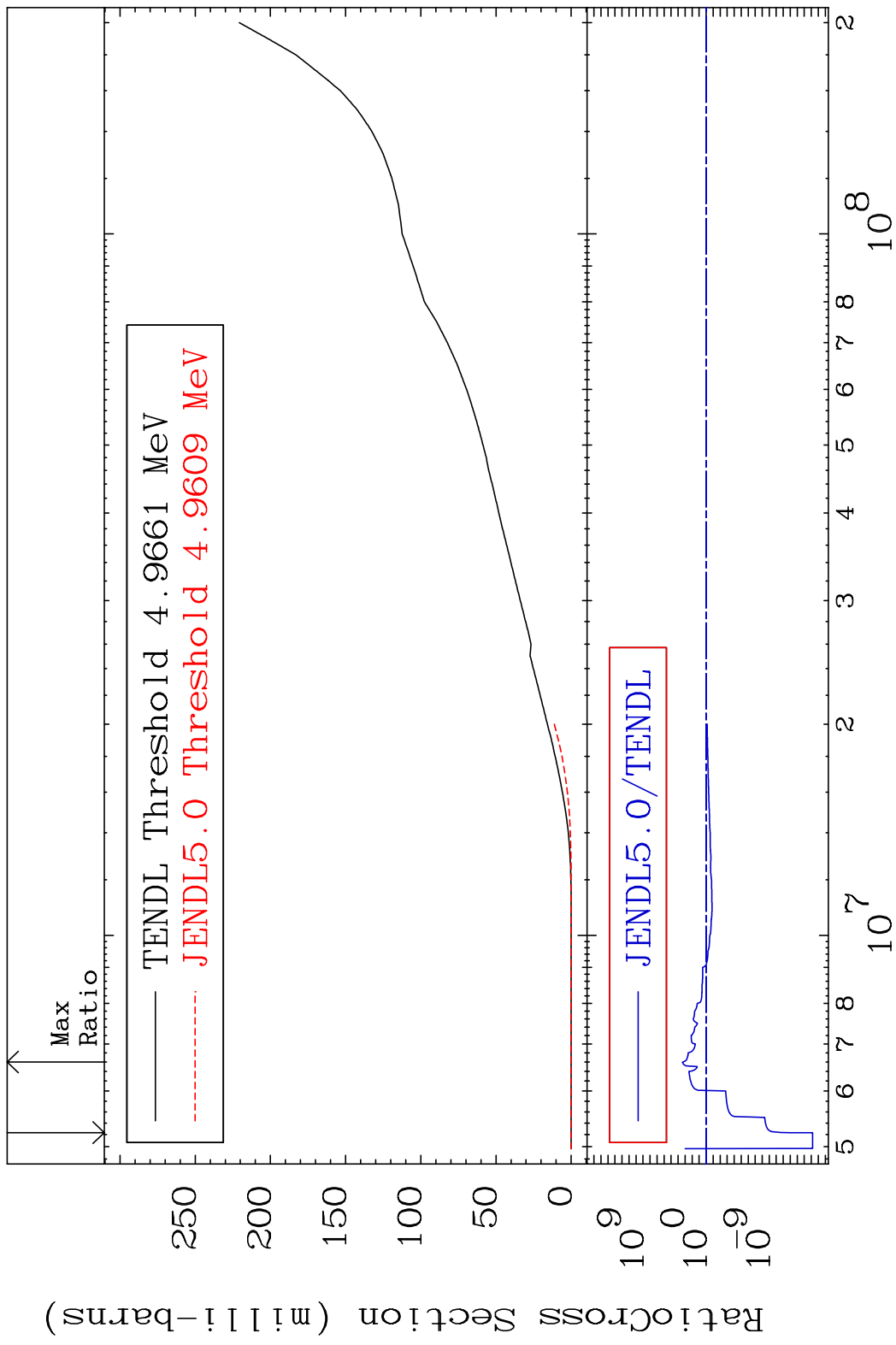
Hydrogen Production

58-Ce-136

Cross Section -100.0 To 2378. %



MAT 5825 Deuterium Production 58-Ce-136
 Cross Section -100.0 To 9999. %

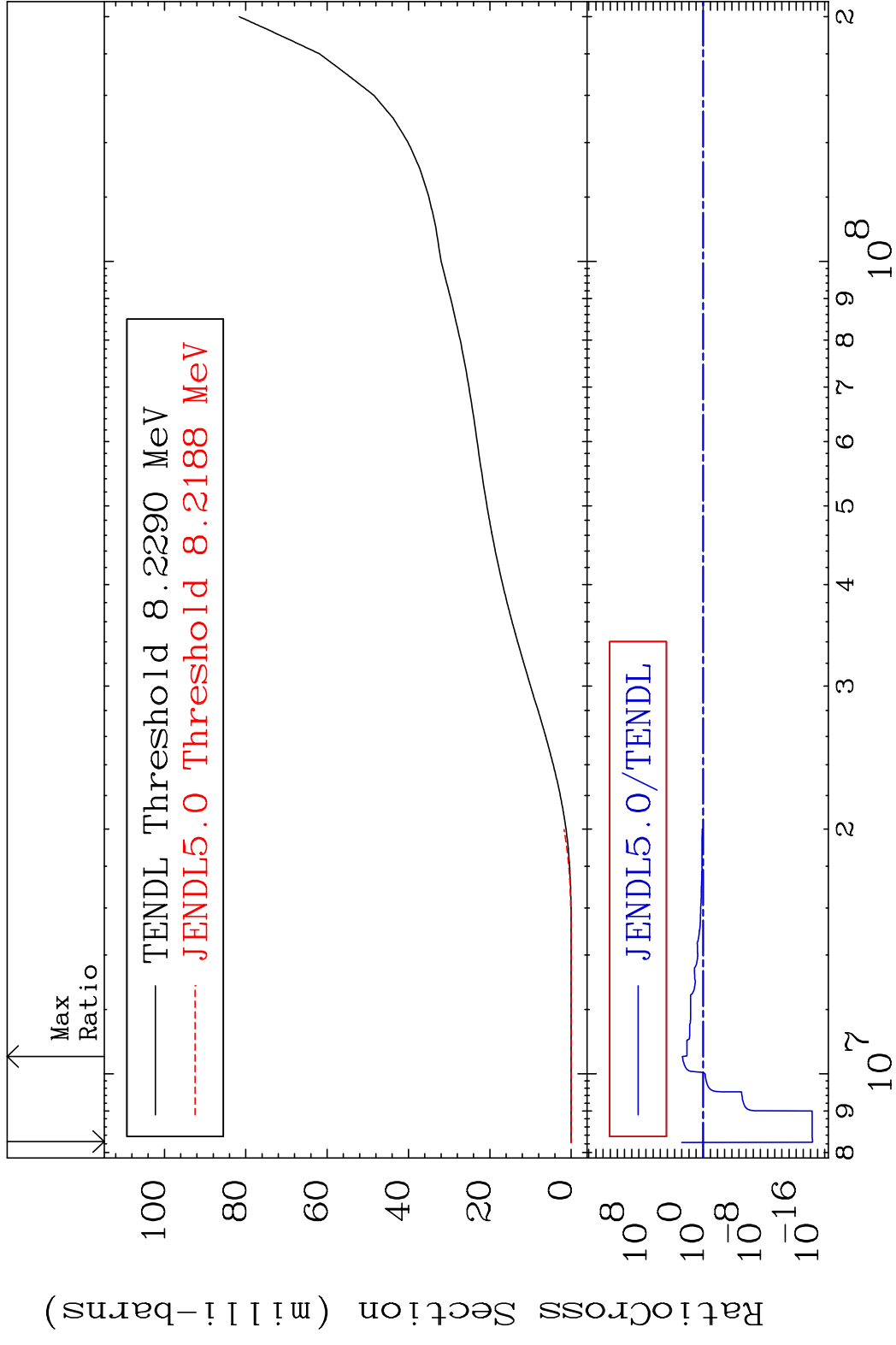


45 Incident Energy (eV) 58-Ce-136

MAT 5825

Tritium Production 58-Ce-136

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

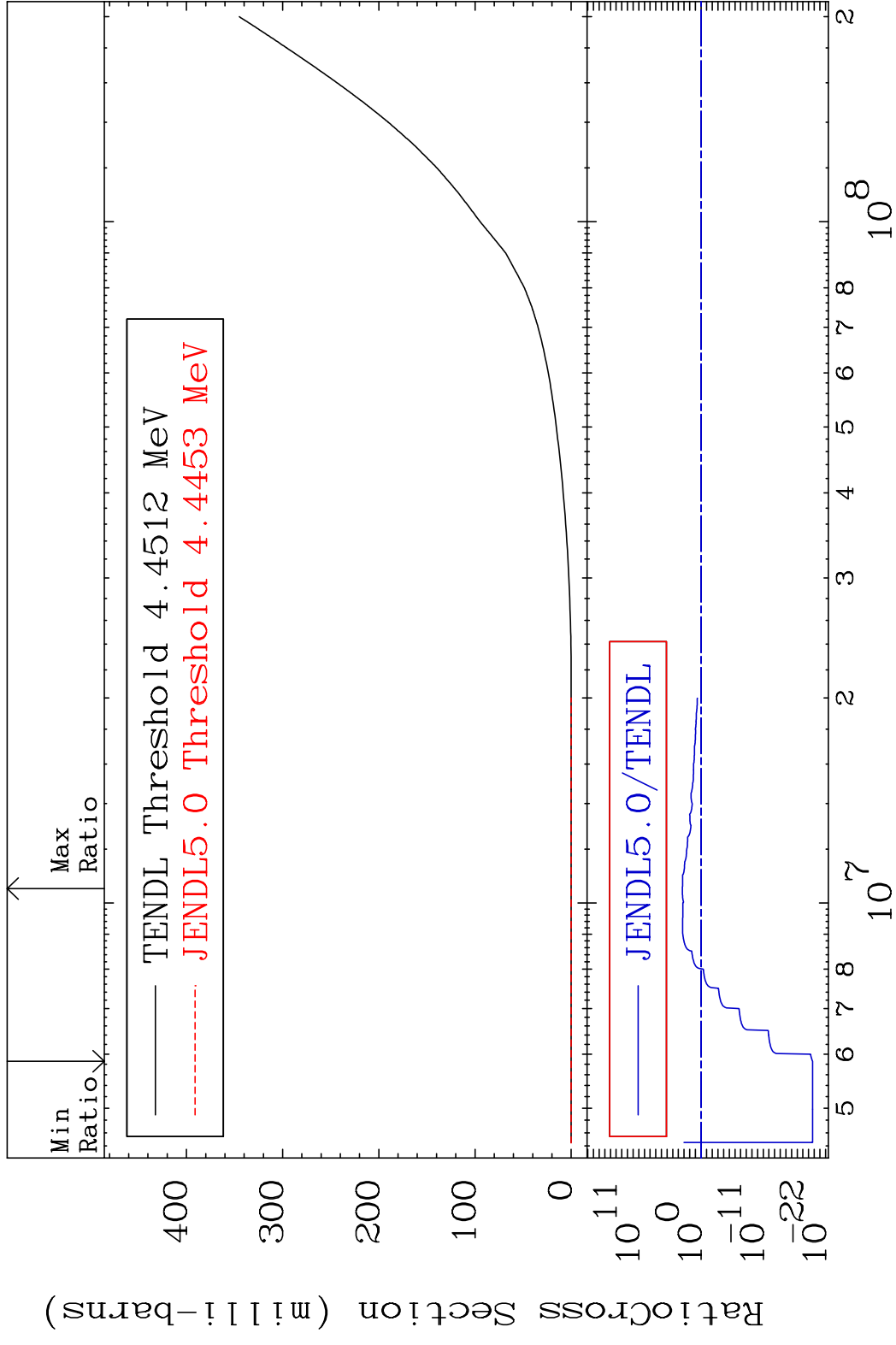
58-Ce-136

MAT 5825

He-3 Production

58-Ce-136

Cross Section -100.0 To 9999. %

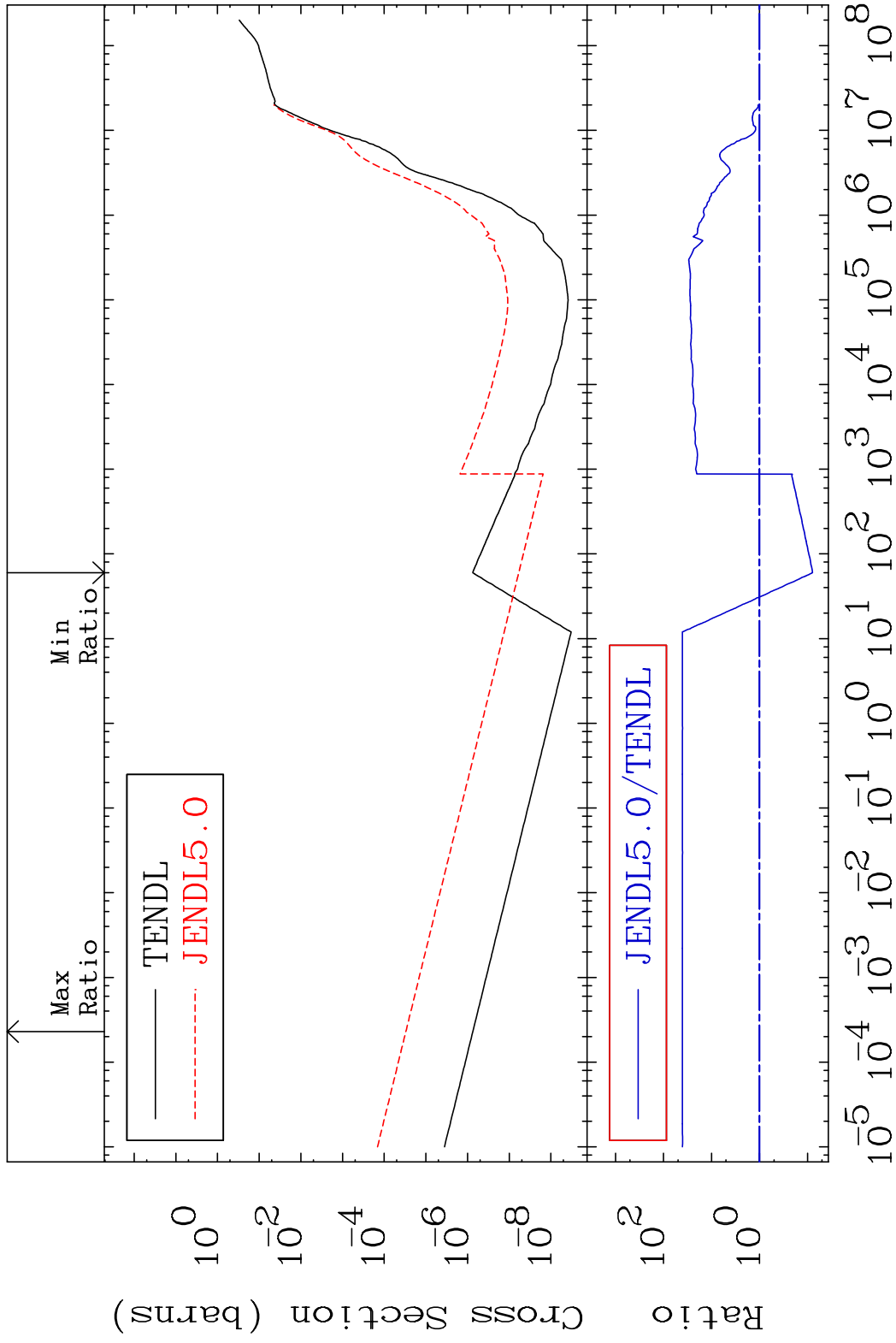


MAT 5825

He-4 Production

58-Ce-136

Cross Section -92.13 To 3958. %

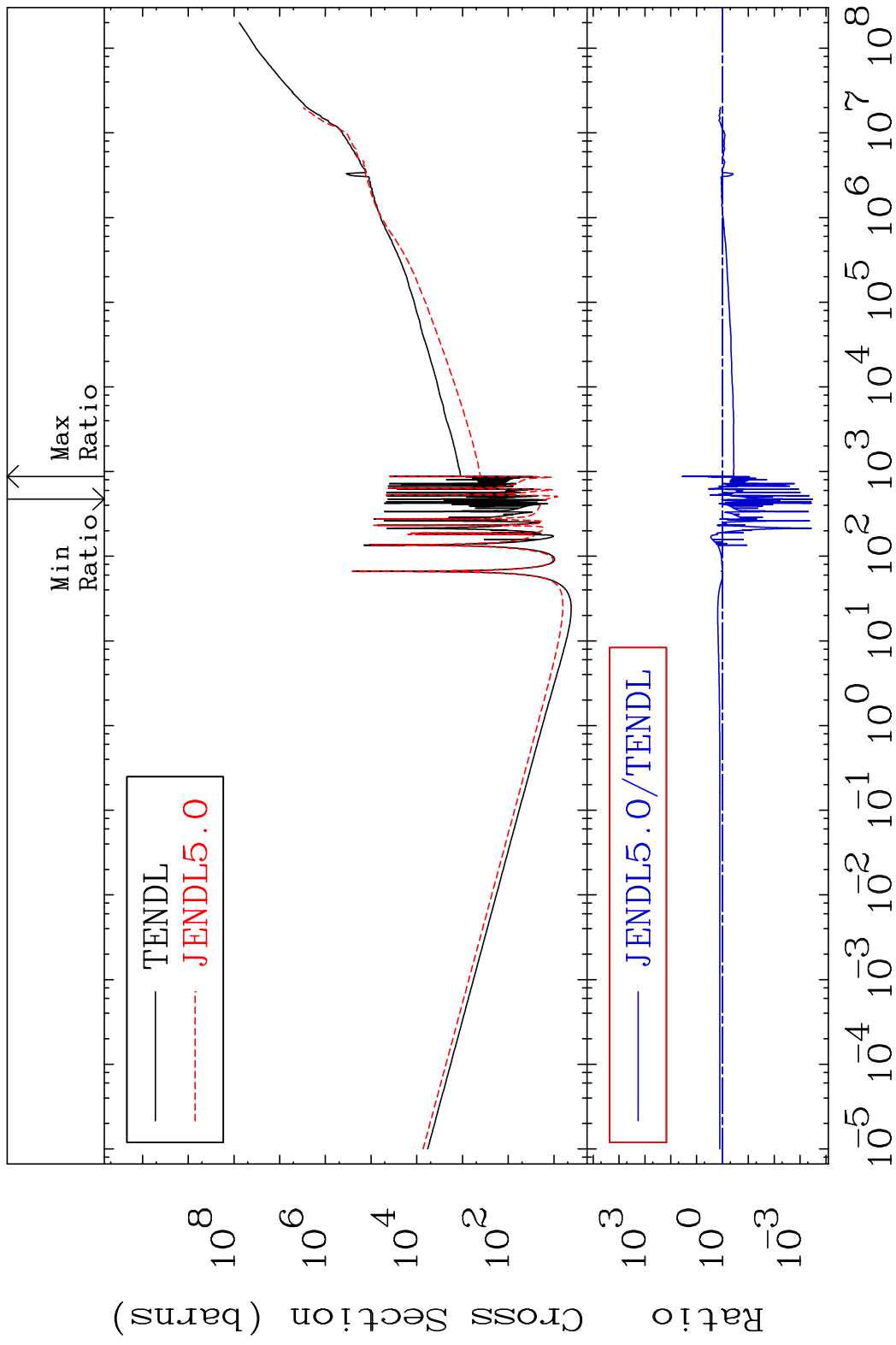


48

Incident Energy (eV)

58-Ce-136

MAT 5825 Kerma total (eV-barns) 58-Ce-136
Cross Section -99.97 To 3465. %



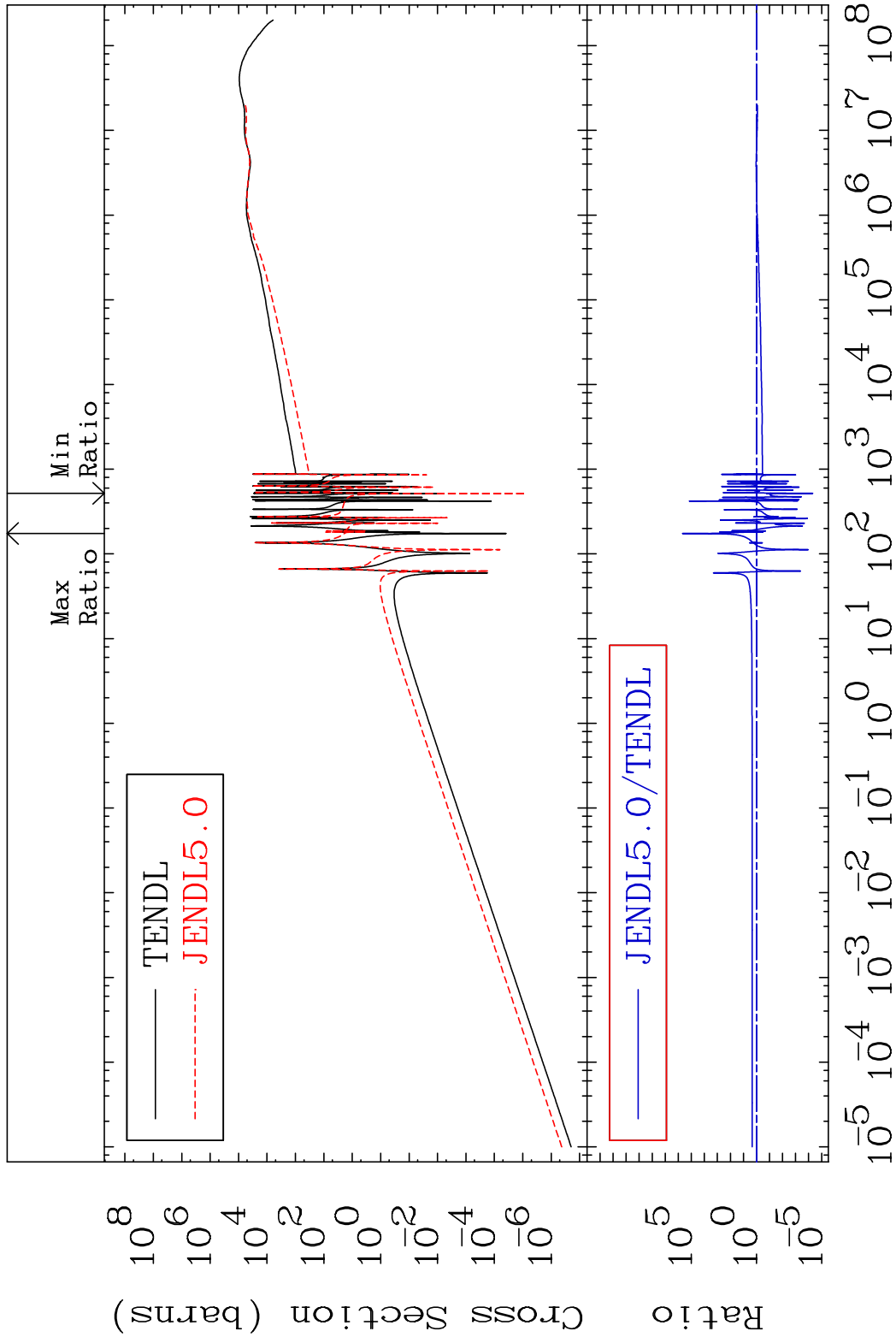
49 58-Ce-136

MAT 5825

58-Ce-136

Kerma elastic

Cross Section -100.0 To 9999. %

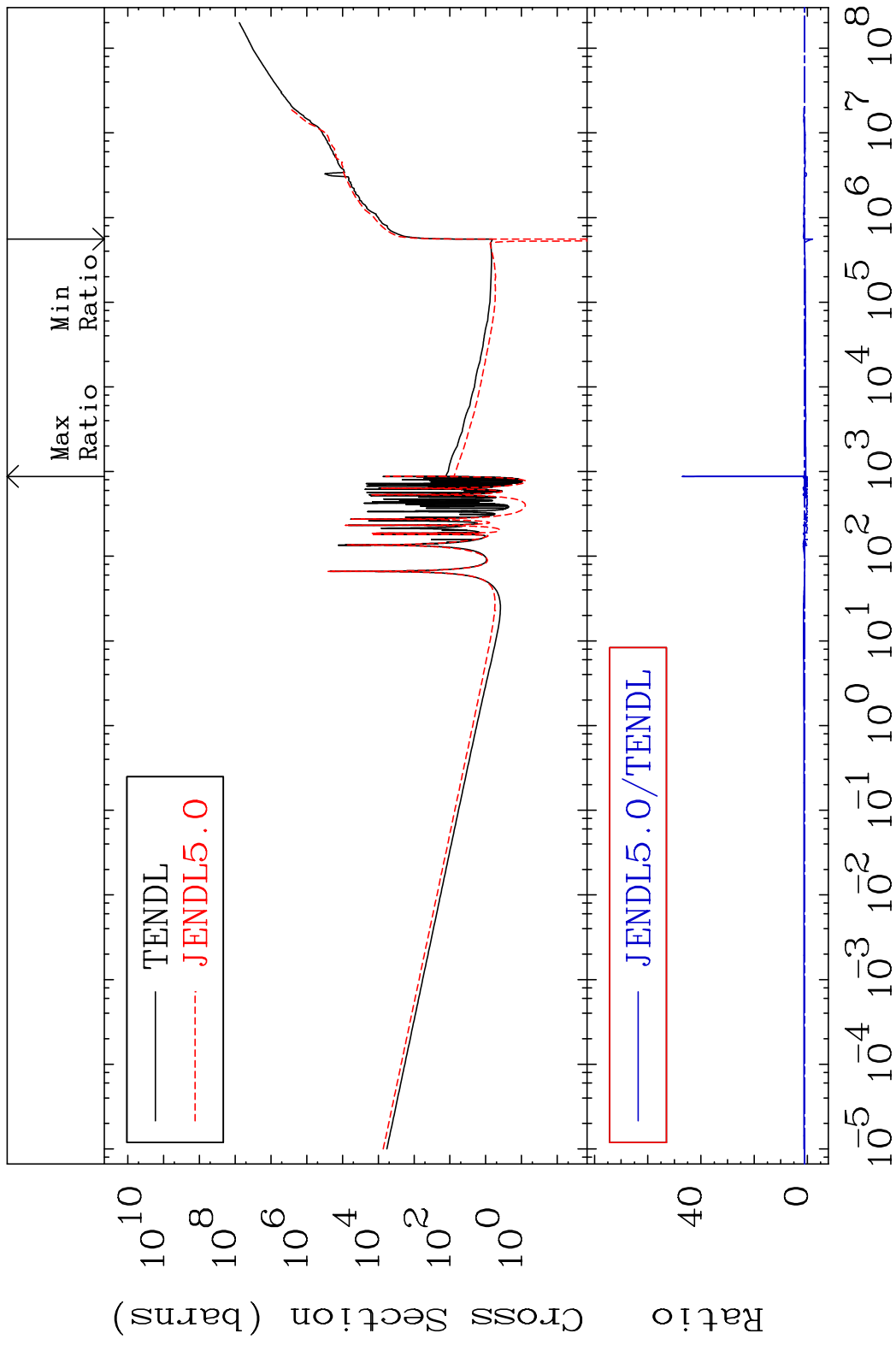


50

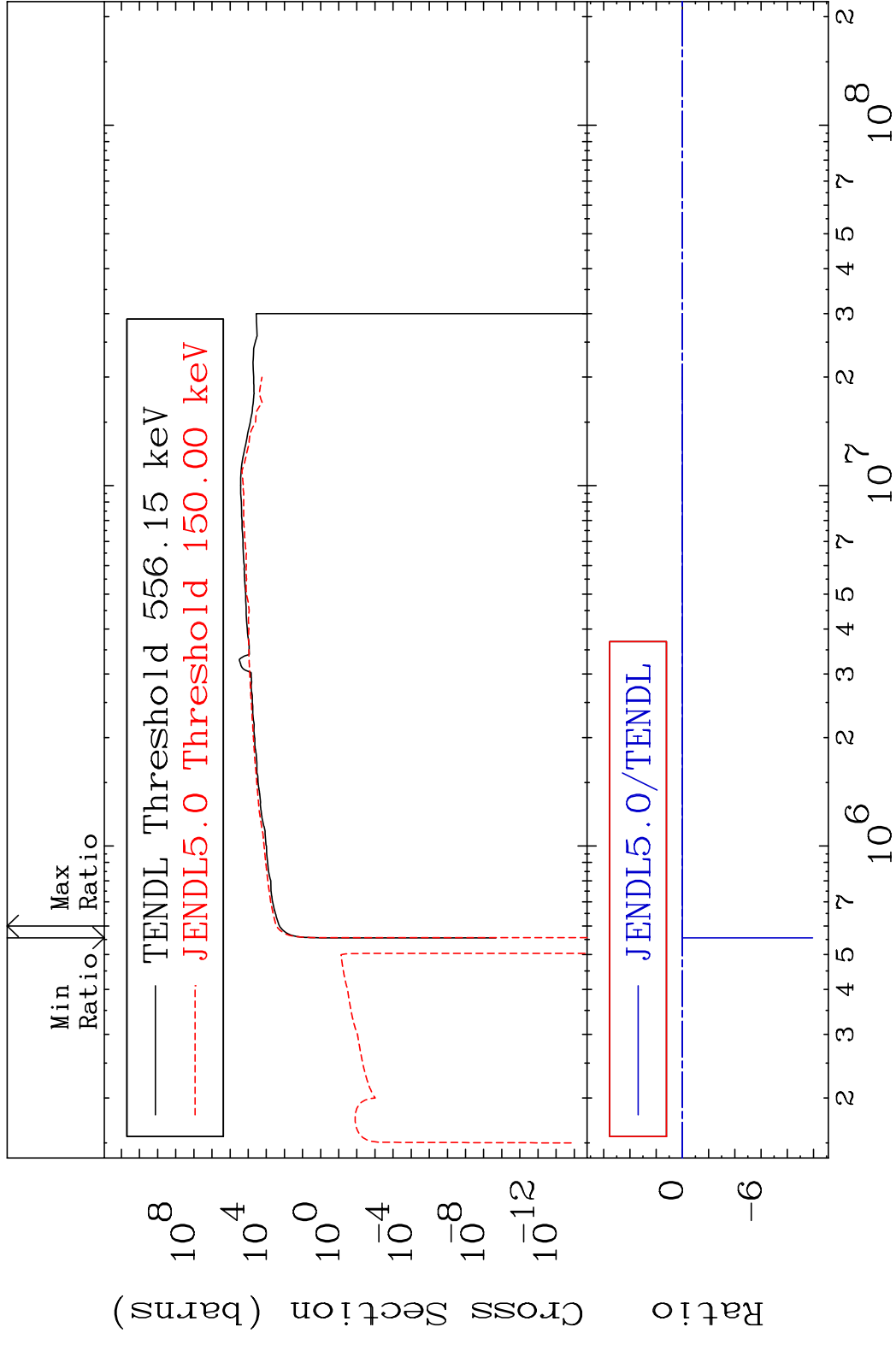
Incident Energy (eV)

58-Ce-136

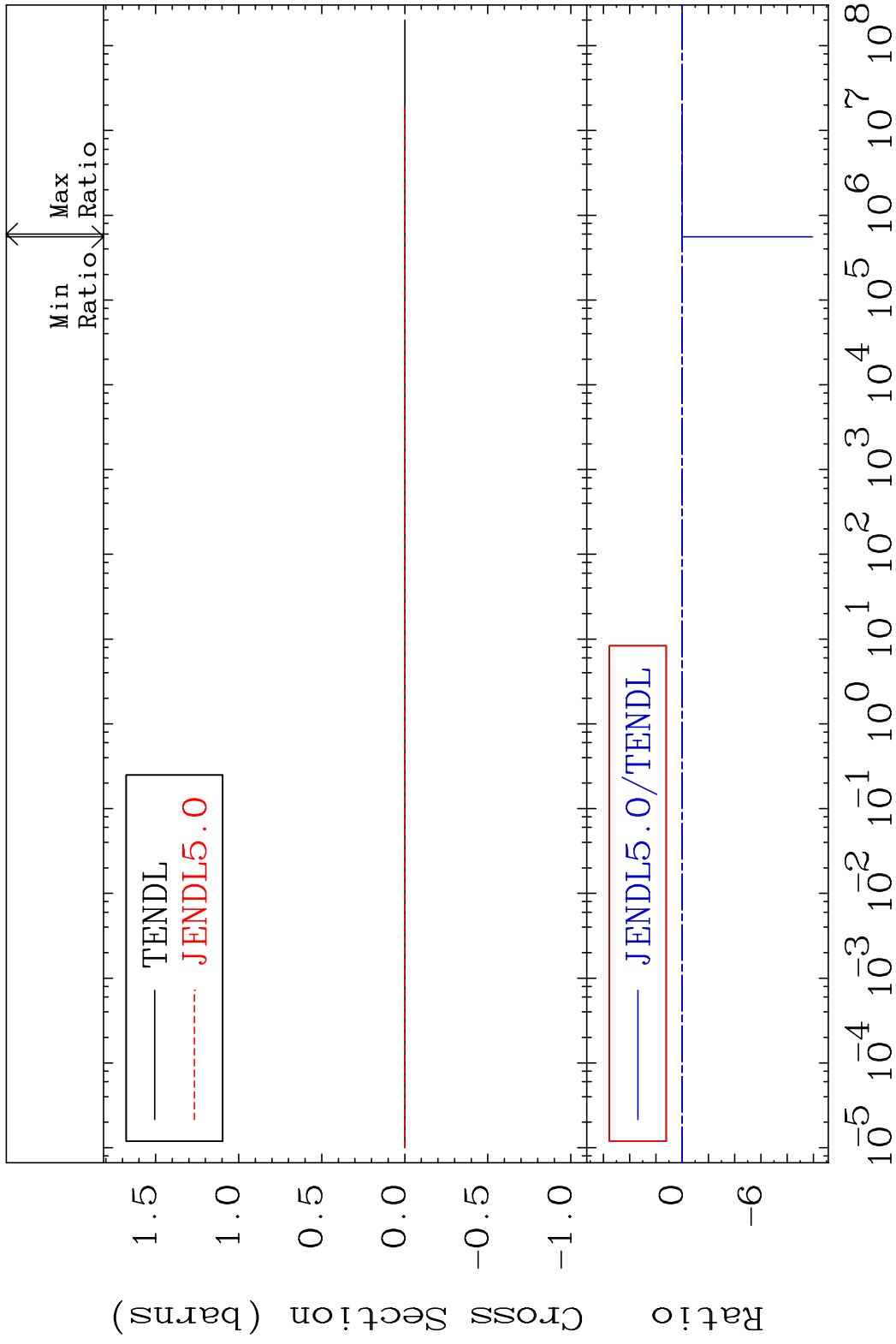
MAT 5825 Kerma non-elastic (all but mt2) 58-Ce-136
 Cross Section -297.4 To 4599. %



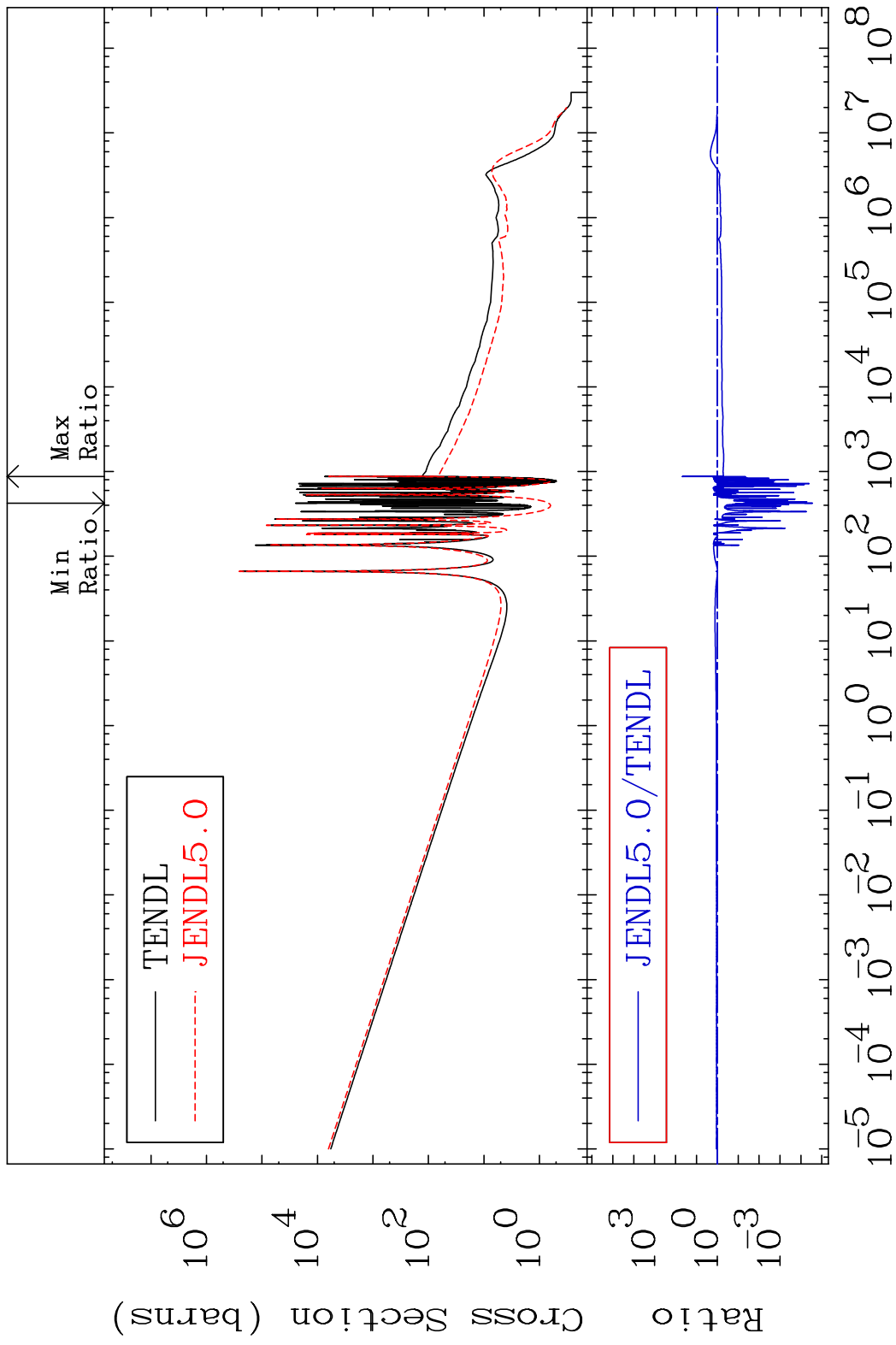
MAT 5825 Kerma inelastic (mt51-91) 58-Ce-136
 Cross Section -9999. To 49.96 %



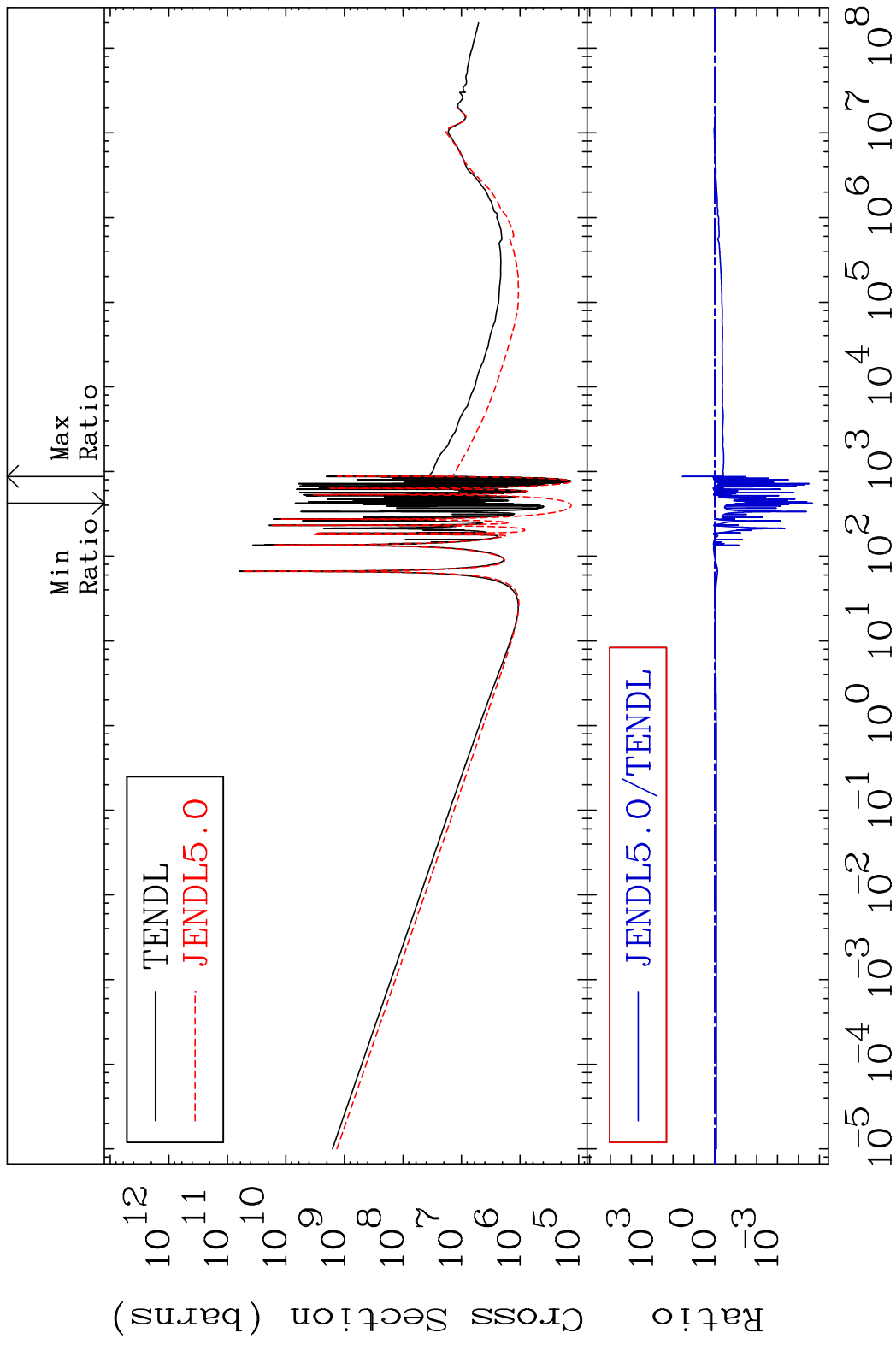
MAT 5825 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-136
 Cross Section -9999. To 49.96 %



MAT 5825 Kerma capture (mt102) 58-Ce-136
 Cross Section -100.0 To 4614. %

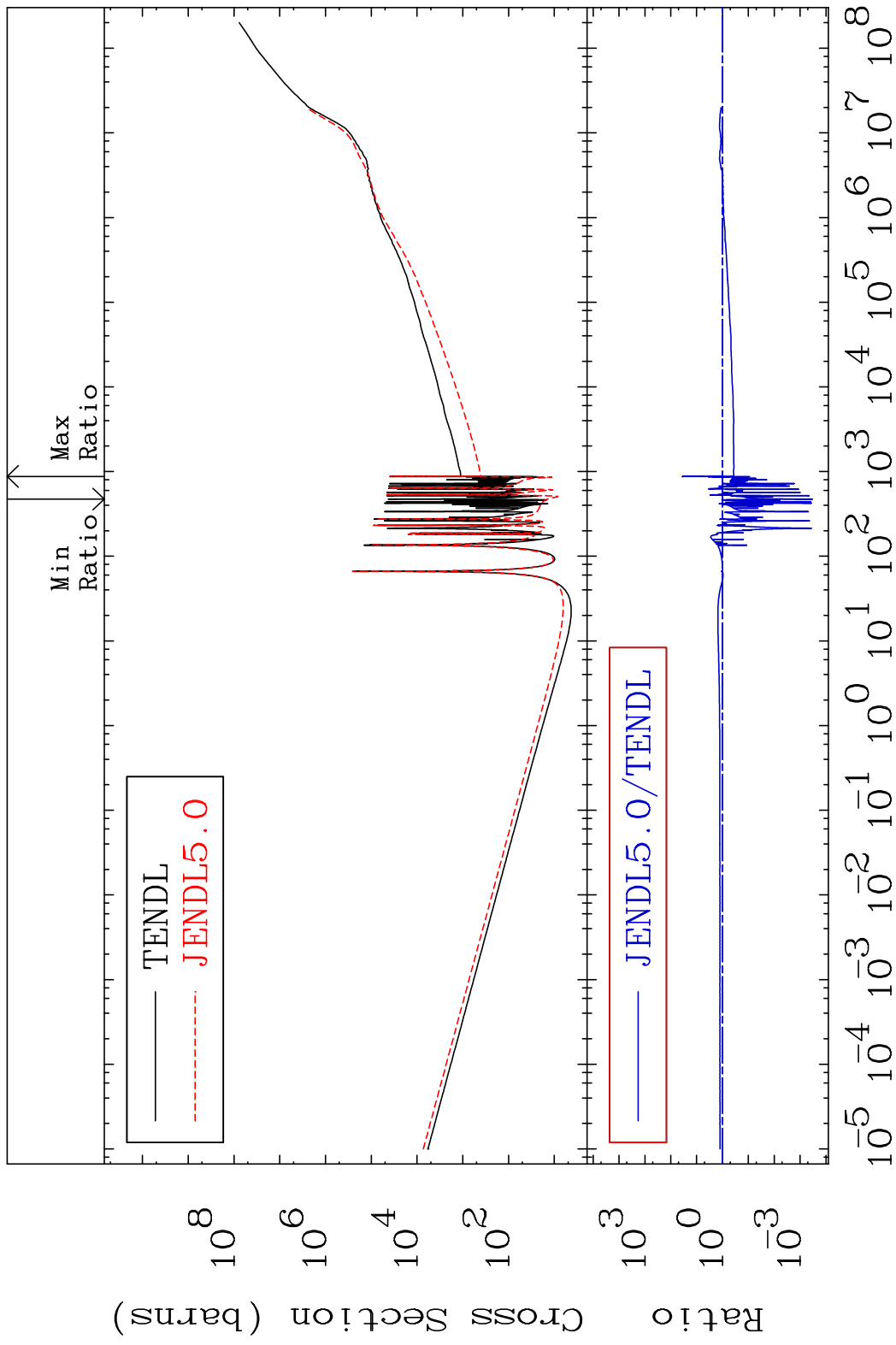


MAT 5825 Total photon (eV-barns) 58-Ce-136
 Cross Section -100.0 To 3499. %

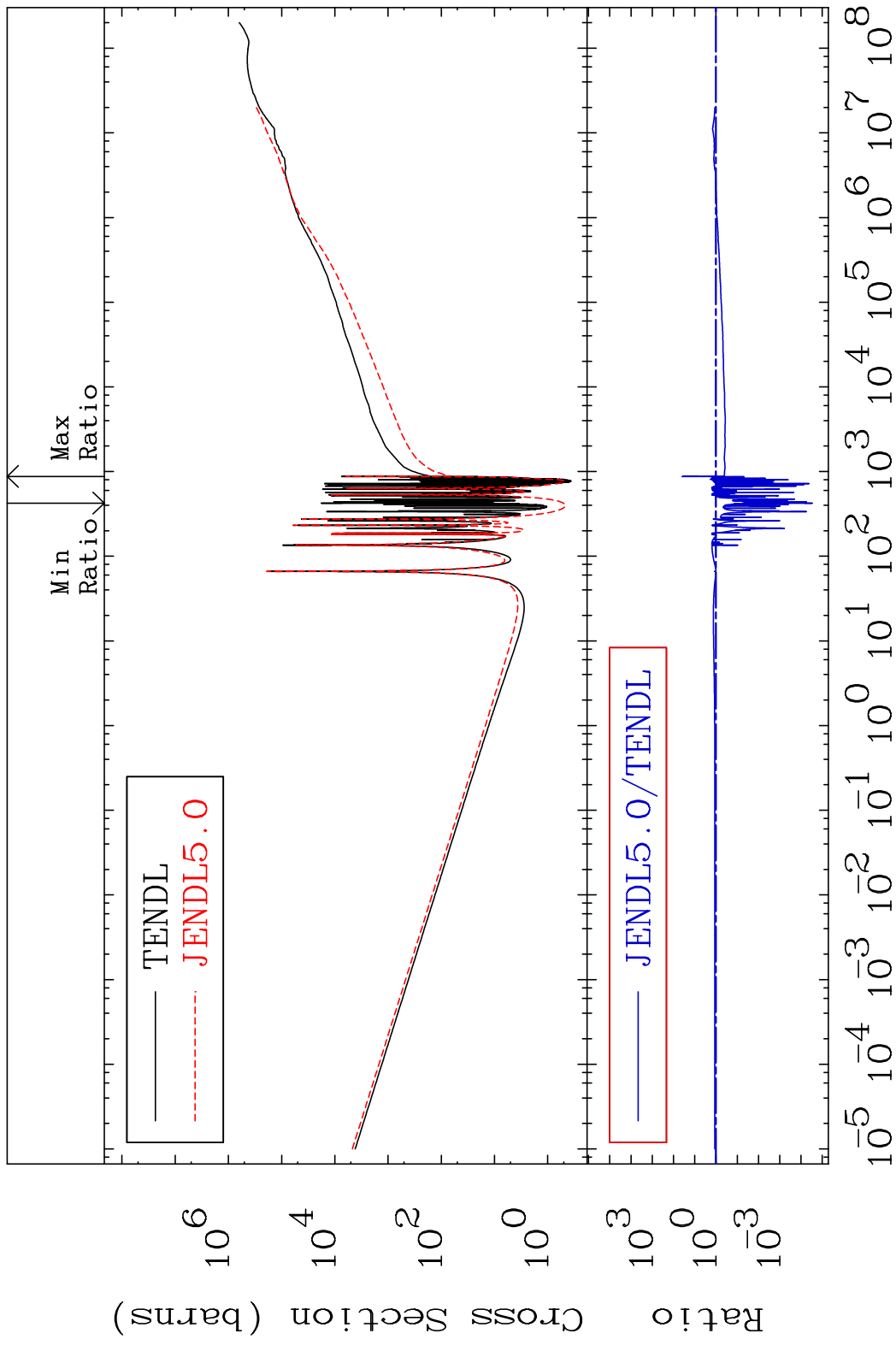


55 Incident Energy (eV) 58-Ce-136

MAT 5825 Total kinematic kerma (high limit) 58-Ce-136
 Cross Section -99.97 To 3465. %



MAT 5825 Dpa total (eV-barns) 58-Ce-136
 Cross Section -100.0 To 3734. %



57 Incident Energy (eV) 58-Ce-136

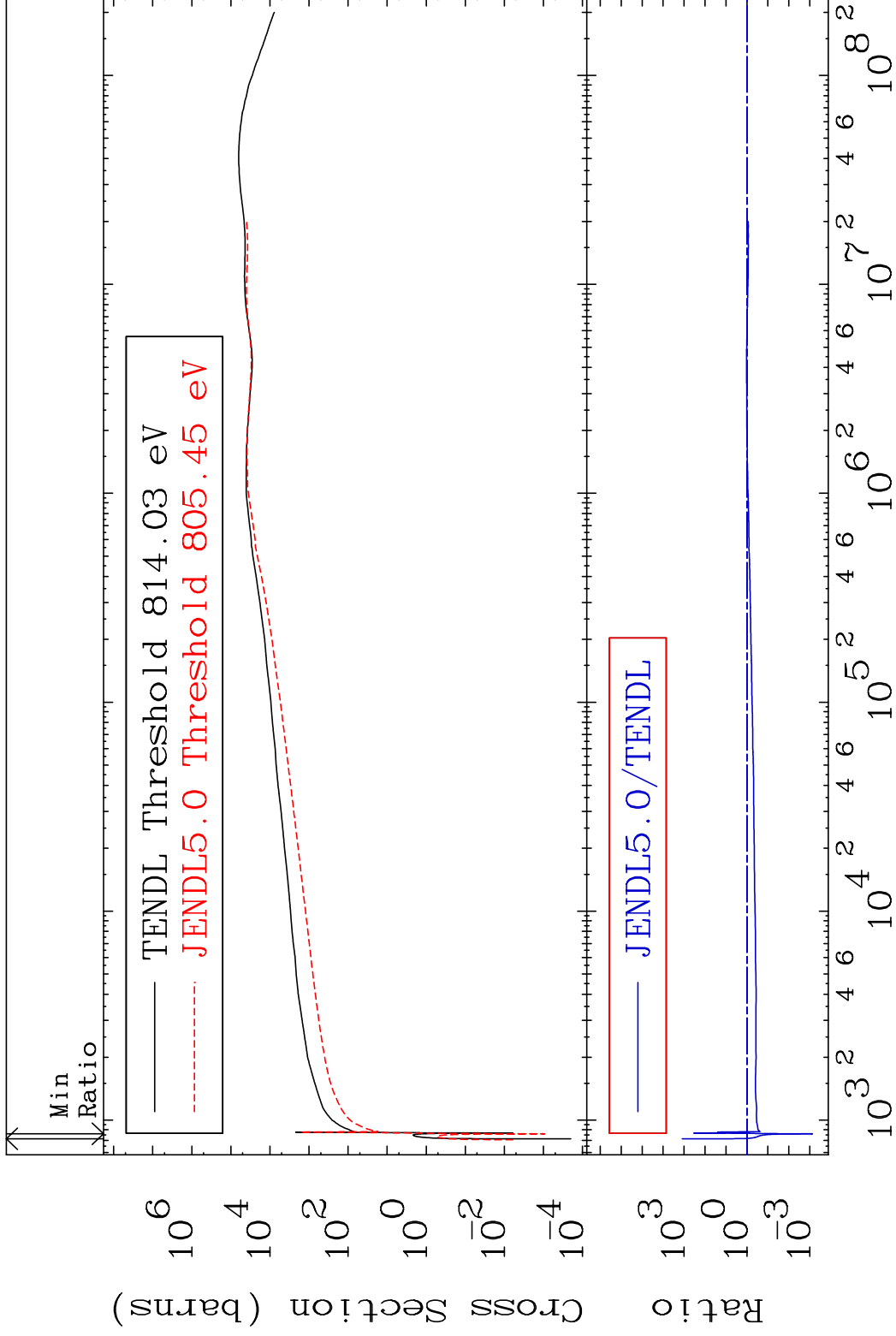
MAT 5825

Dpa elastic (mt2)

58-Ce-136

Cross Section

-99.93 To 9999. %

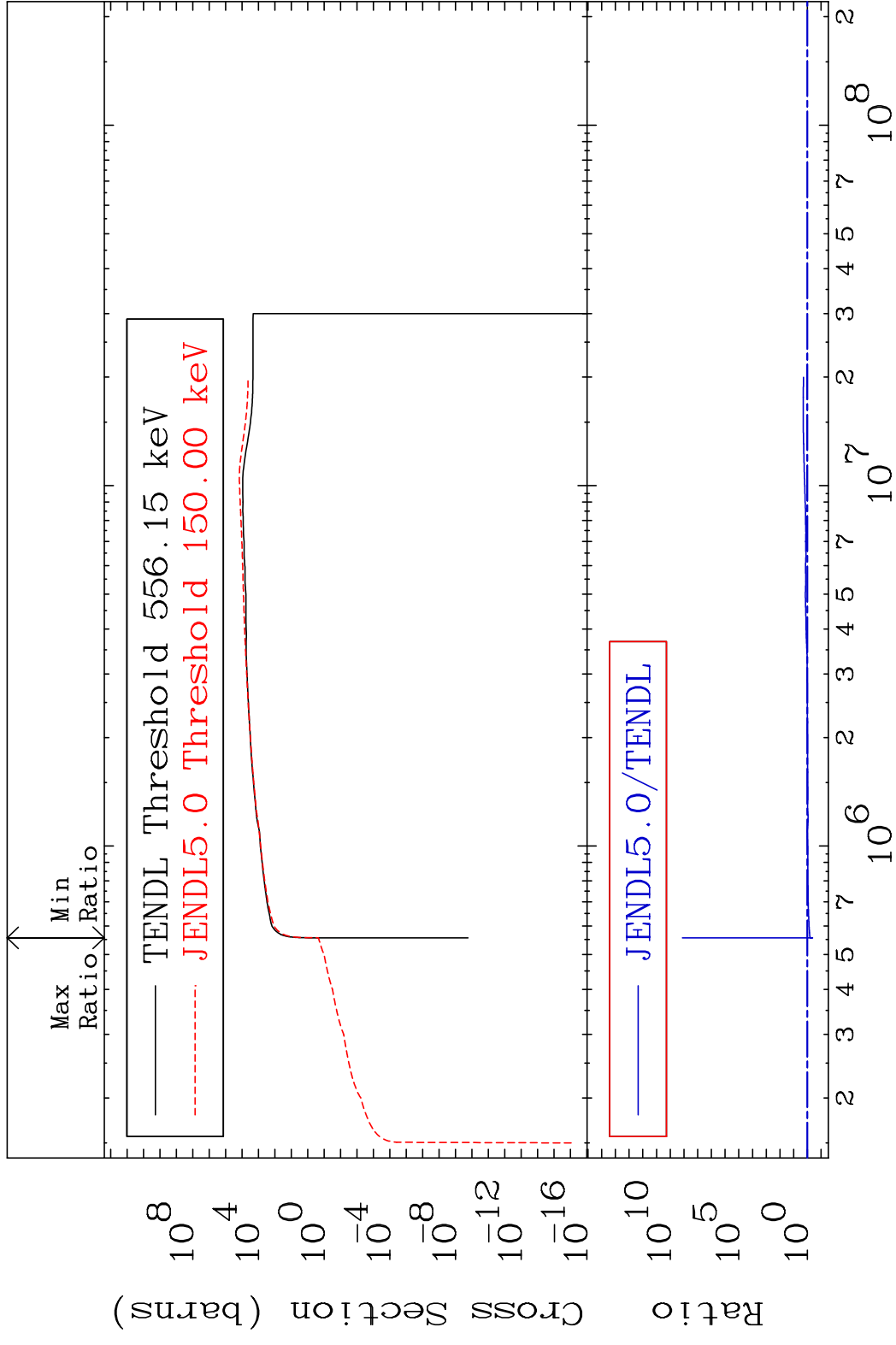


58

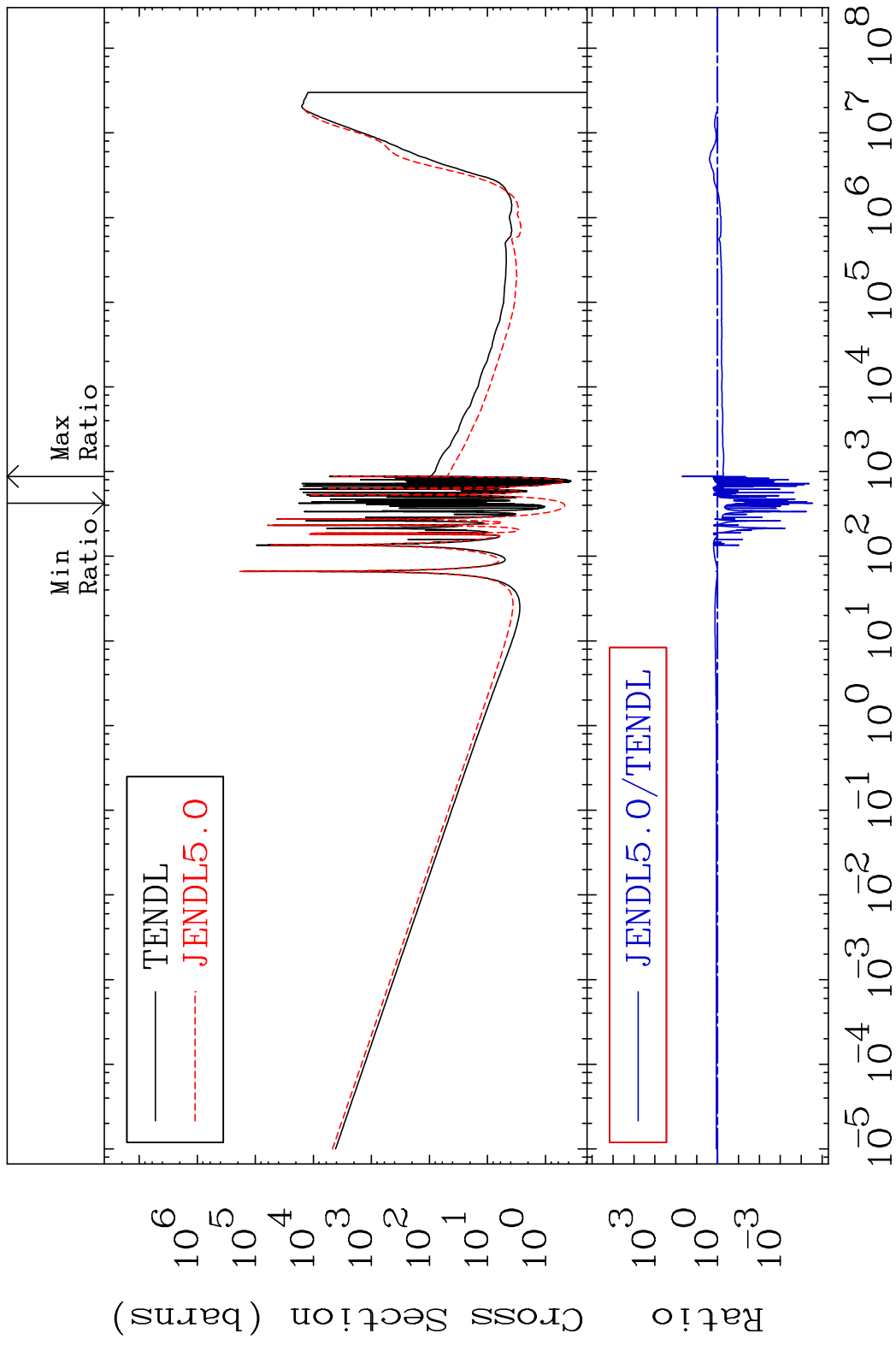
Incident Energy (eV)

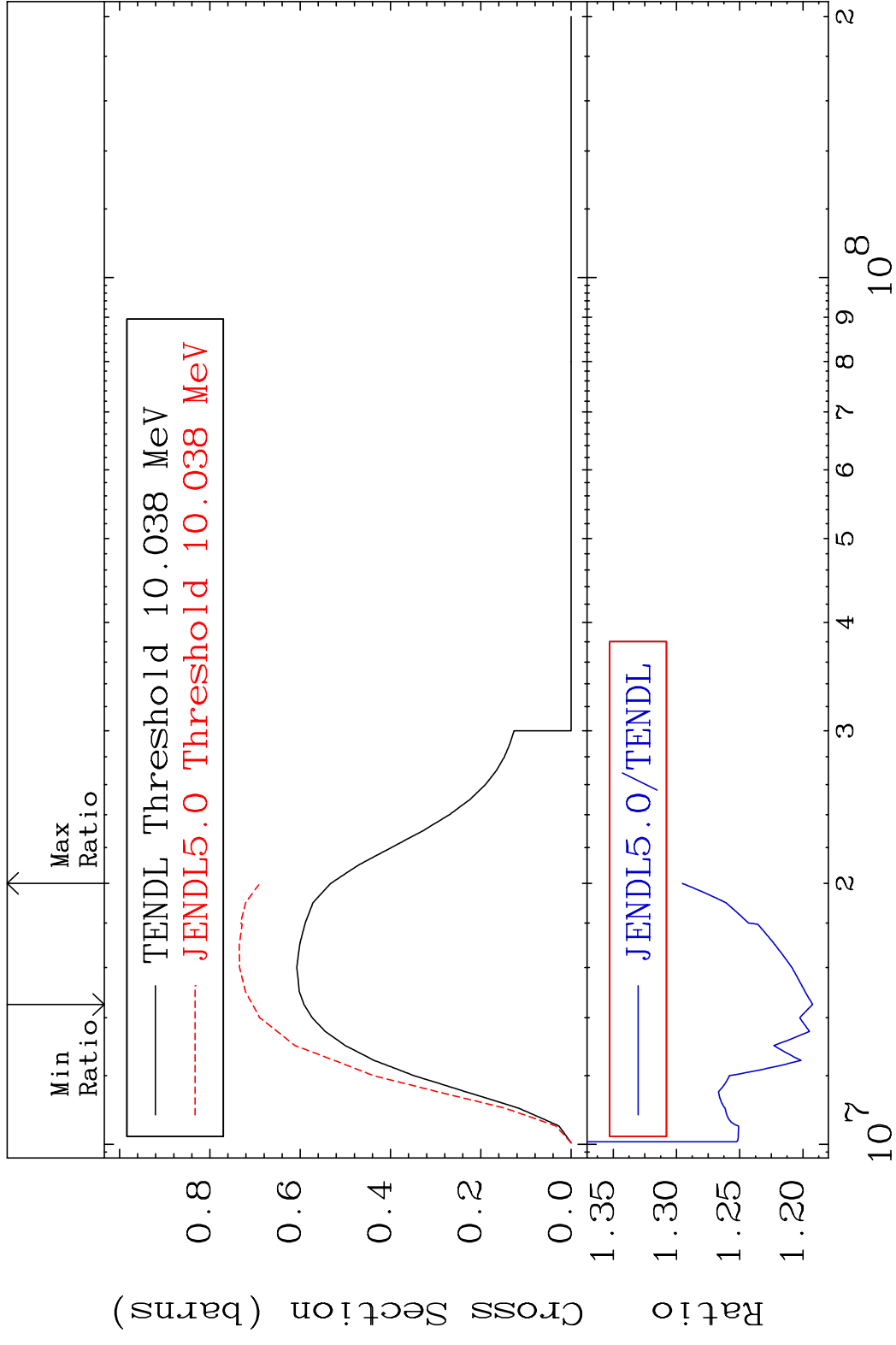
58-Ce-136

MAT 5825 Dpa inelastic (mt51-91) 58-Ce-136
 Cross Section -57.77 To 9999. %

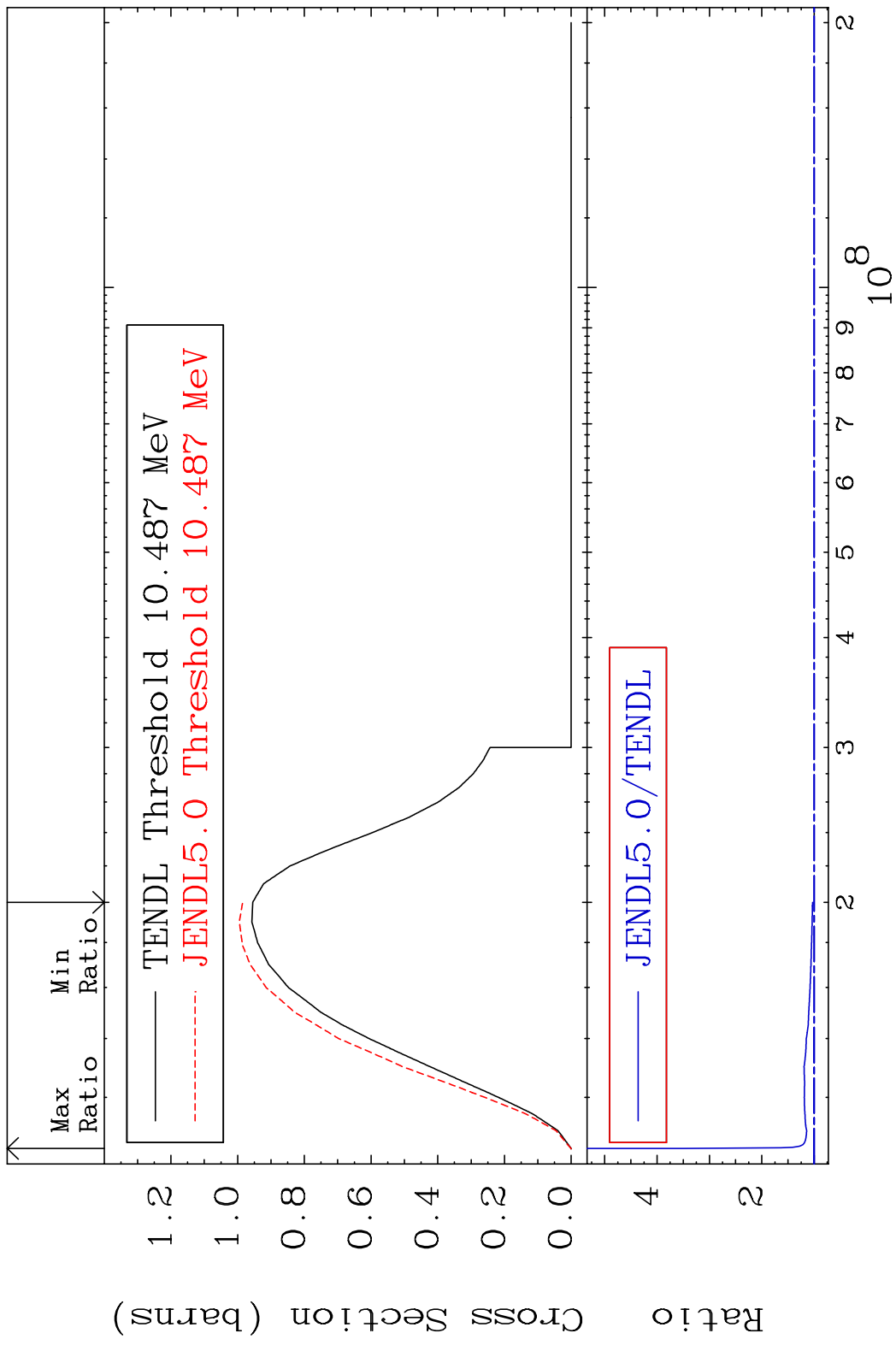


MAT 5825 Dpa disappearance (mt102 -120) 58-Ce-136
Cross Section -100.0 To 4732. %

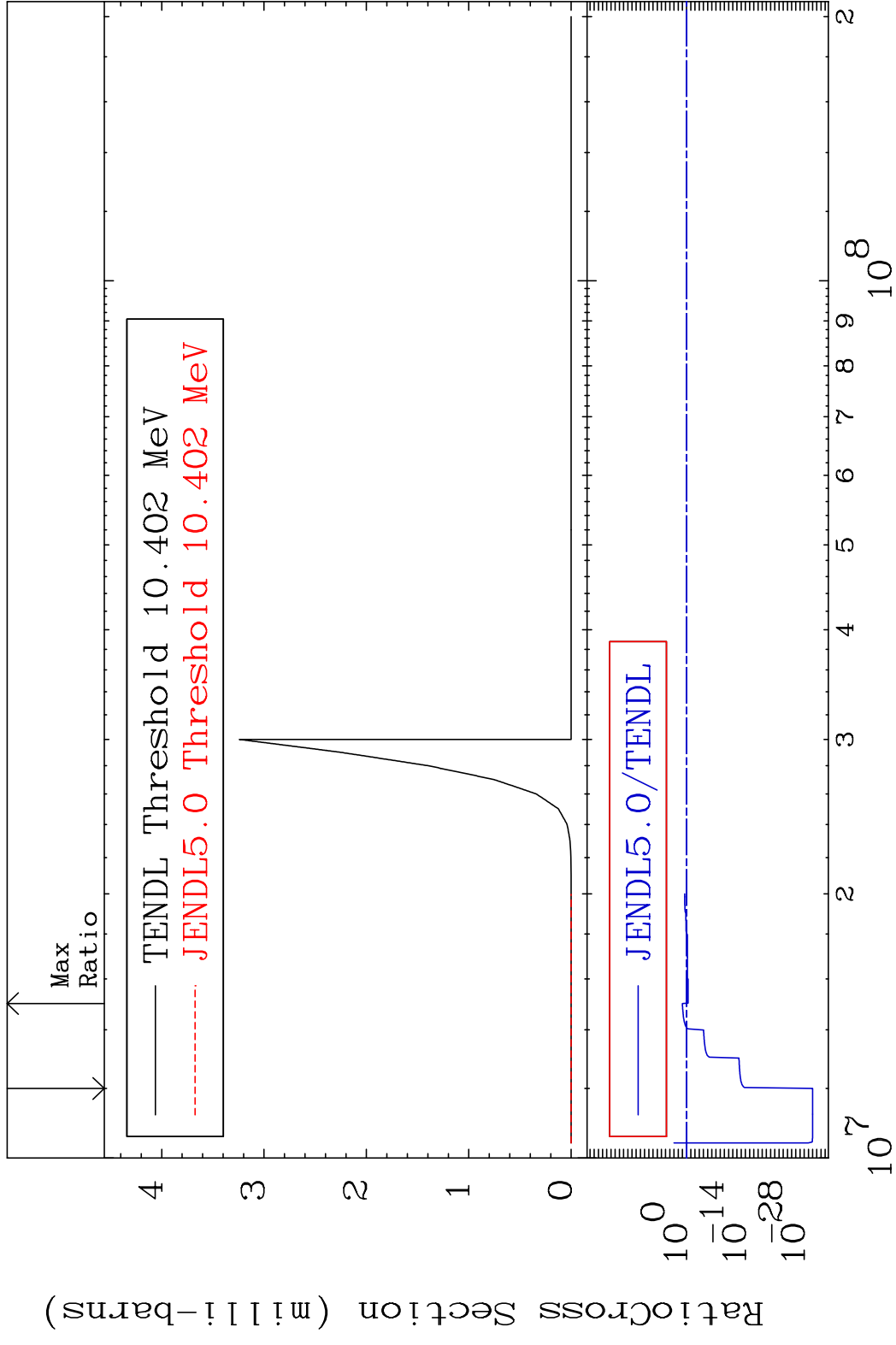




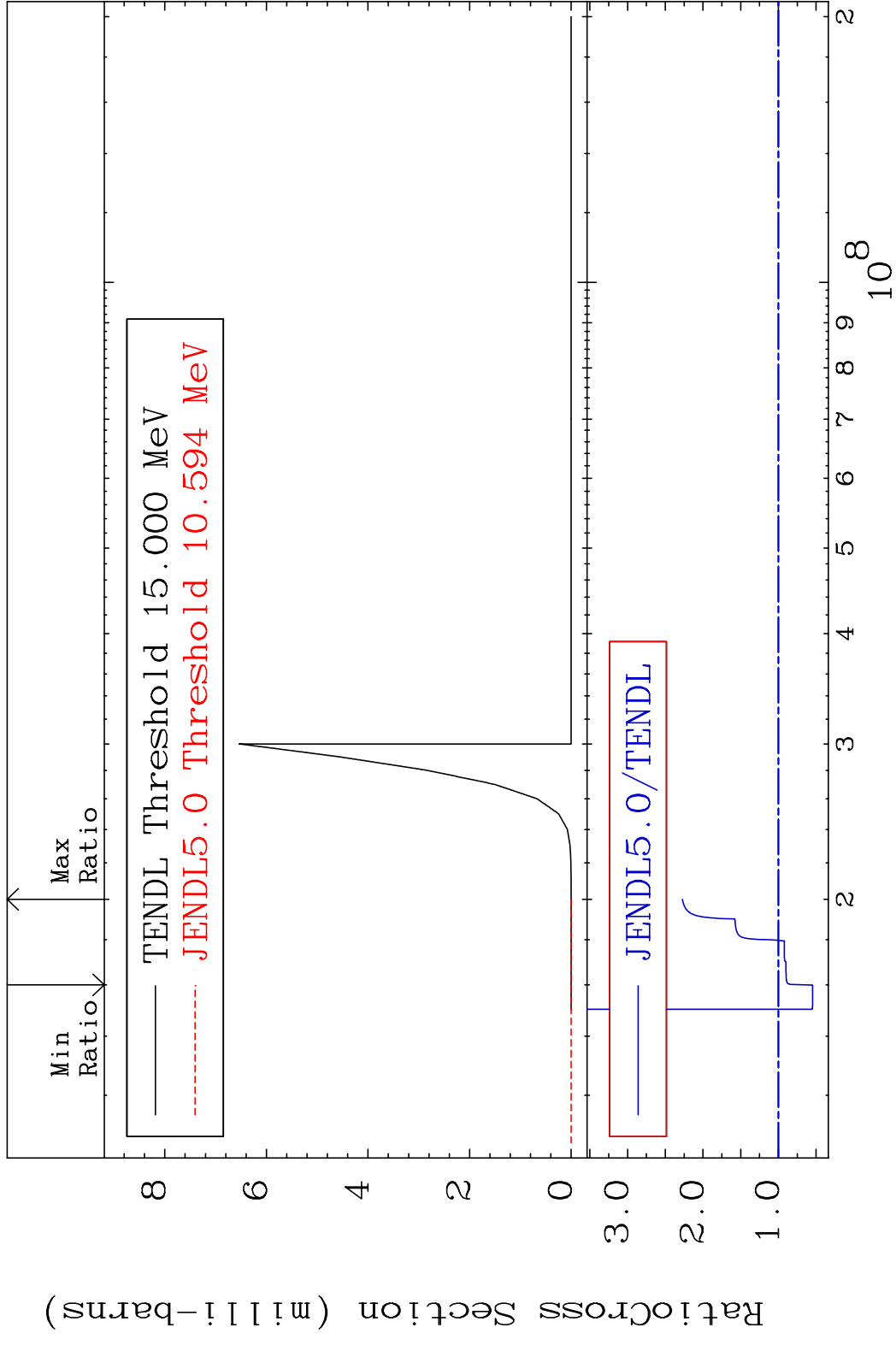
MAT 5825 (n,2n):58-Ce-135m4 58-Ce-136
 Radionuclide Production Cross Section 251.7 %



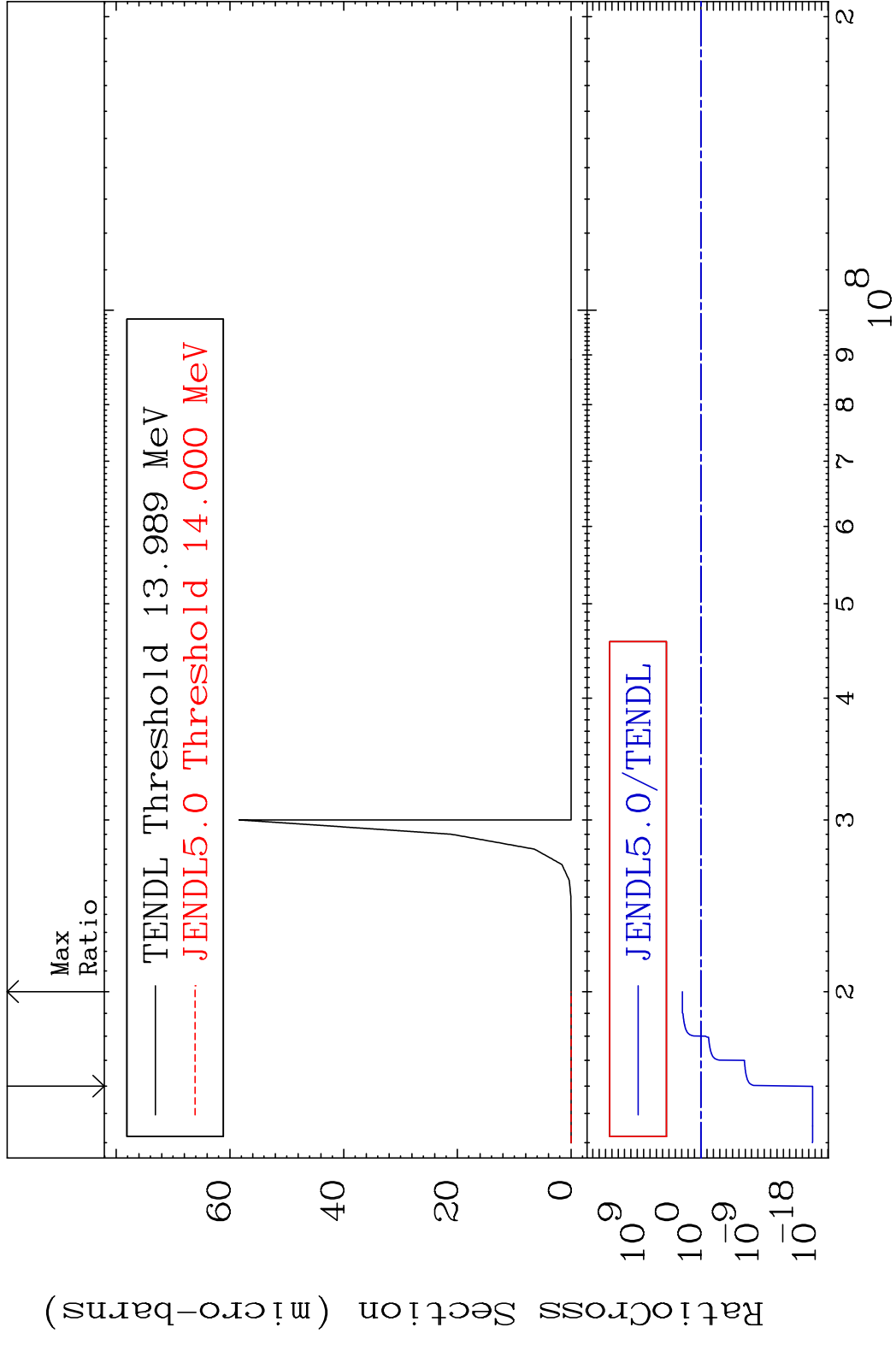
MAT 5825 (n,2n) α :56-Ba-131g 58-Ce-136
 Radionuclide Production Cross Section Ratio 924.5 %



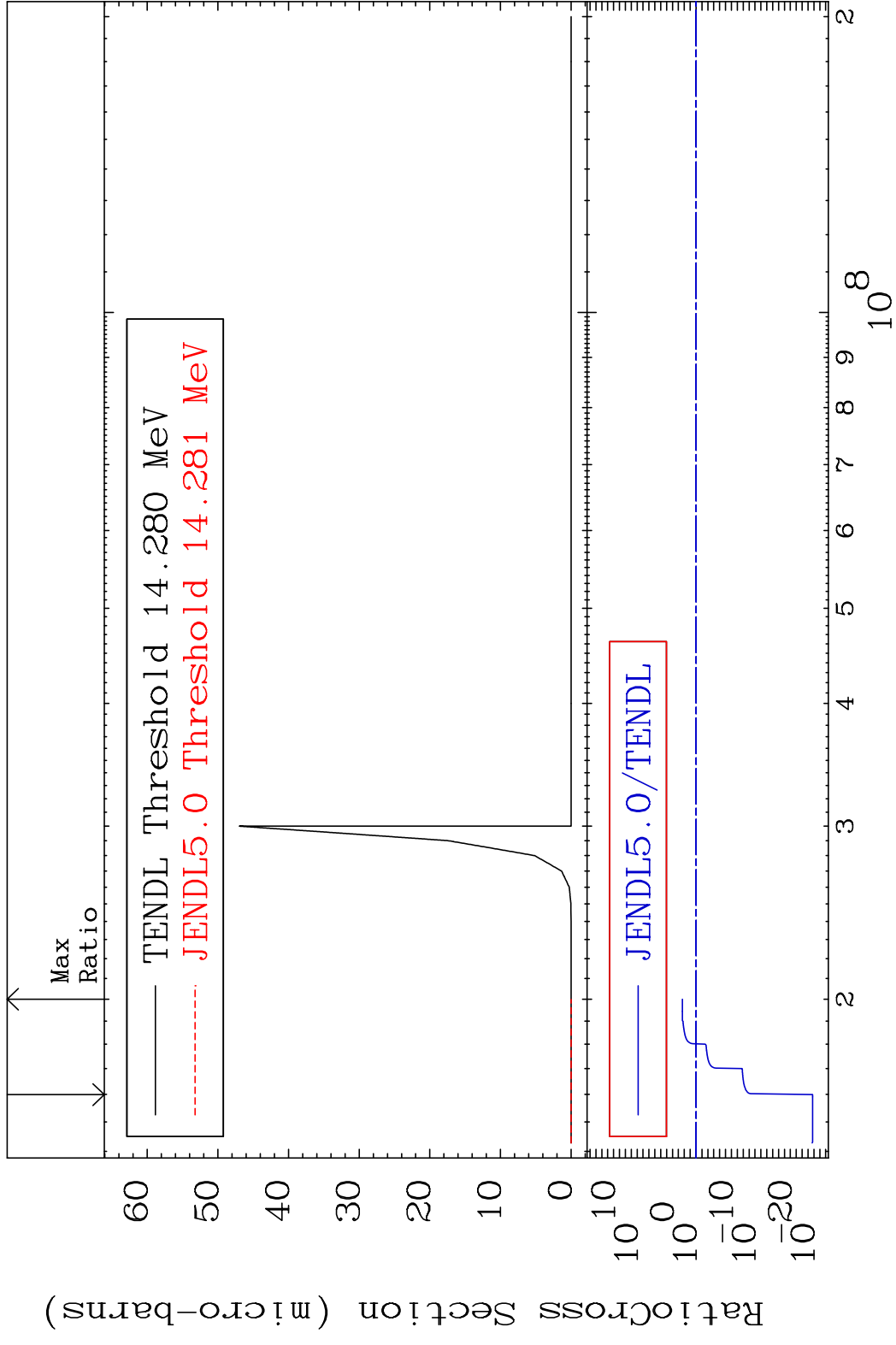
MAT 5825 (n,2n) α :56-Ba-131m2 58-Ce-136
 Radionuclide Production Cross Section 127.4 %



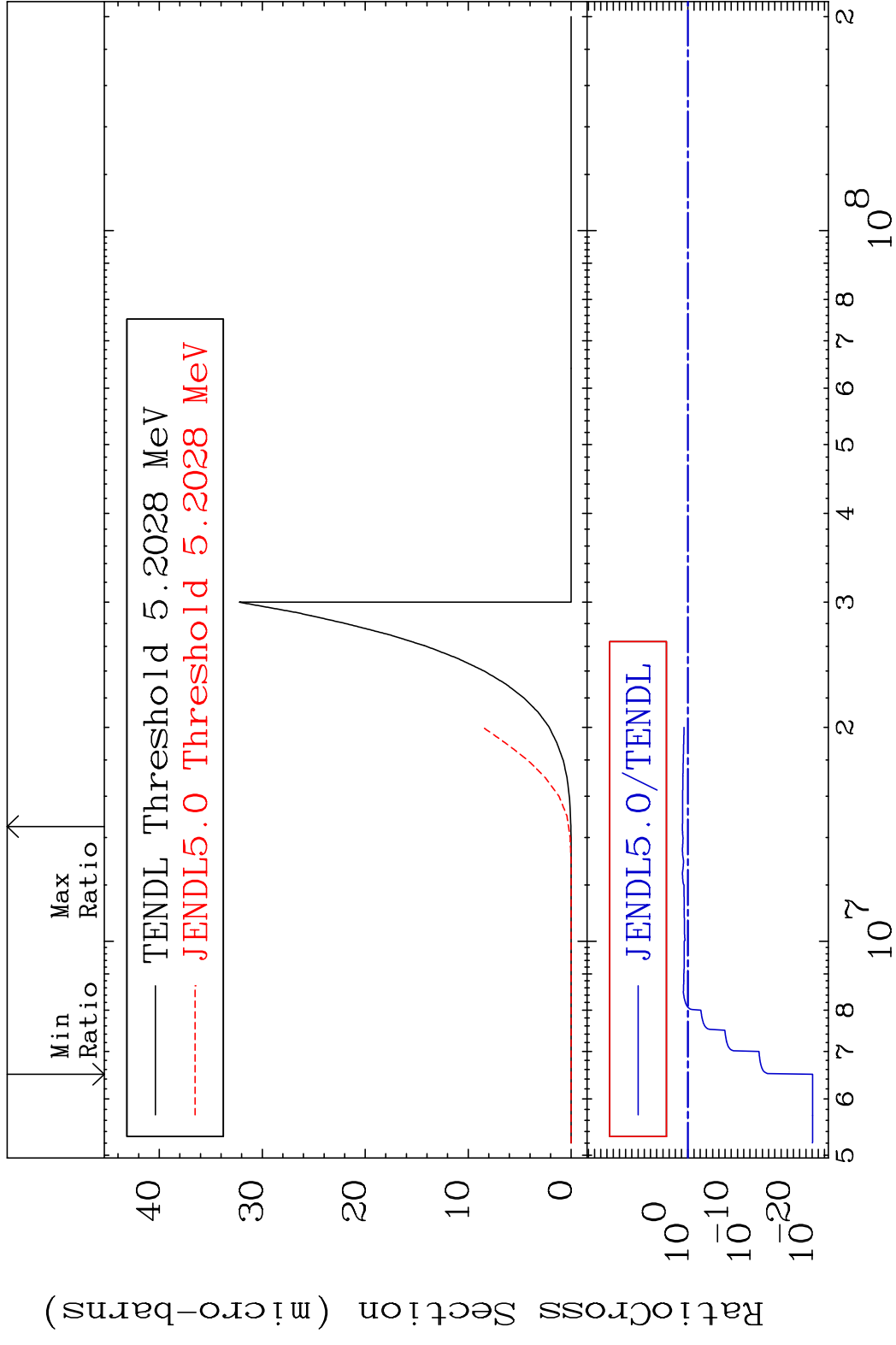
MAT 5825 (n, n') He-3:56-Ba-133g 58-Ce-136
 Radionuclide Production Cross Section Ratio 9999. %



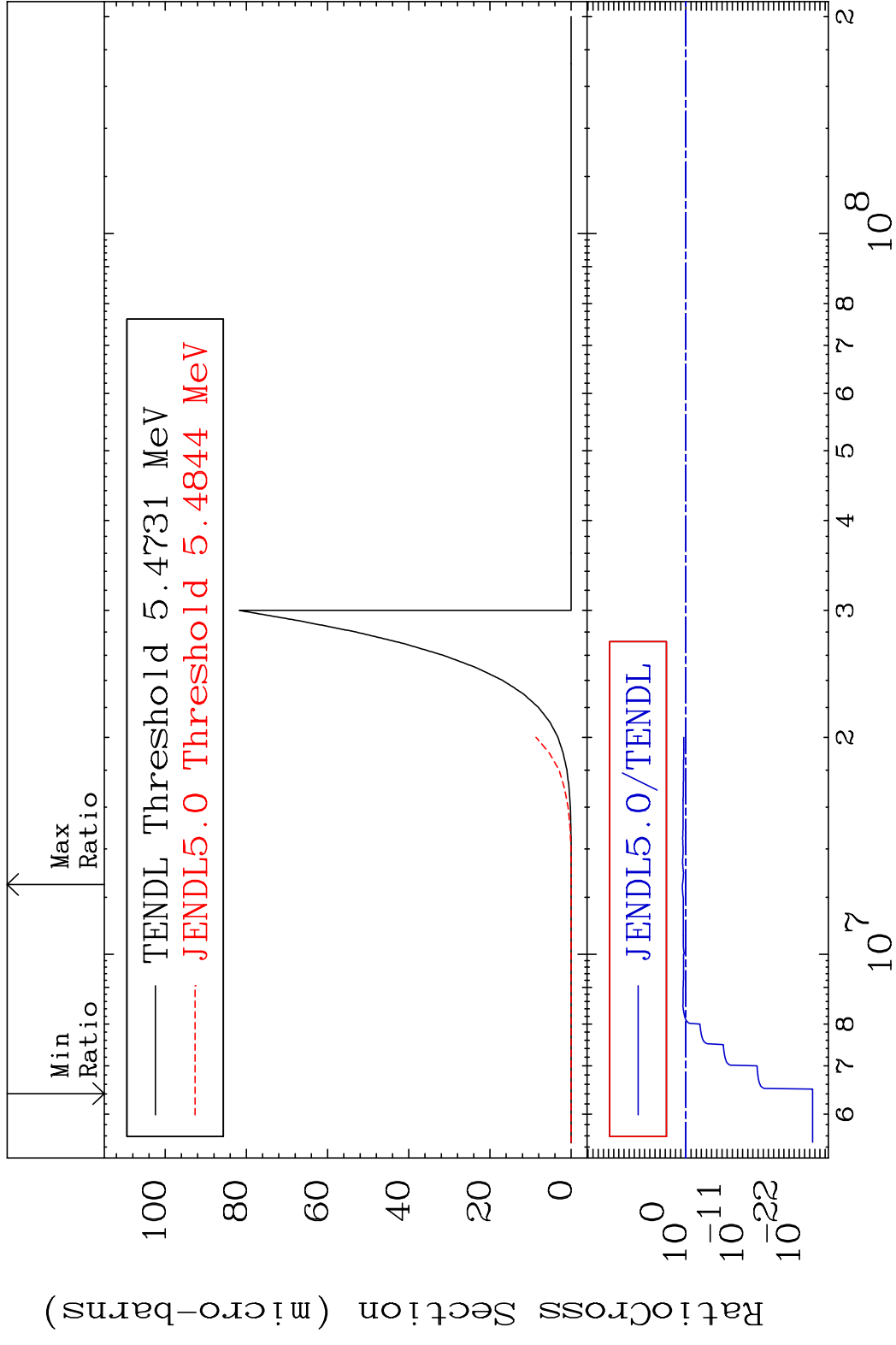
MAT 5825 (n, n') He-3:56-Ba-133m2 58-Ce-136
 Radionuclide Production Cross Section to 9999. %

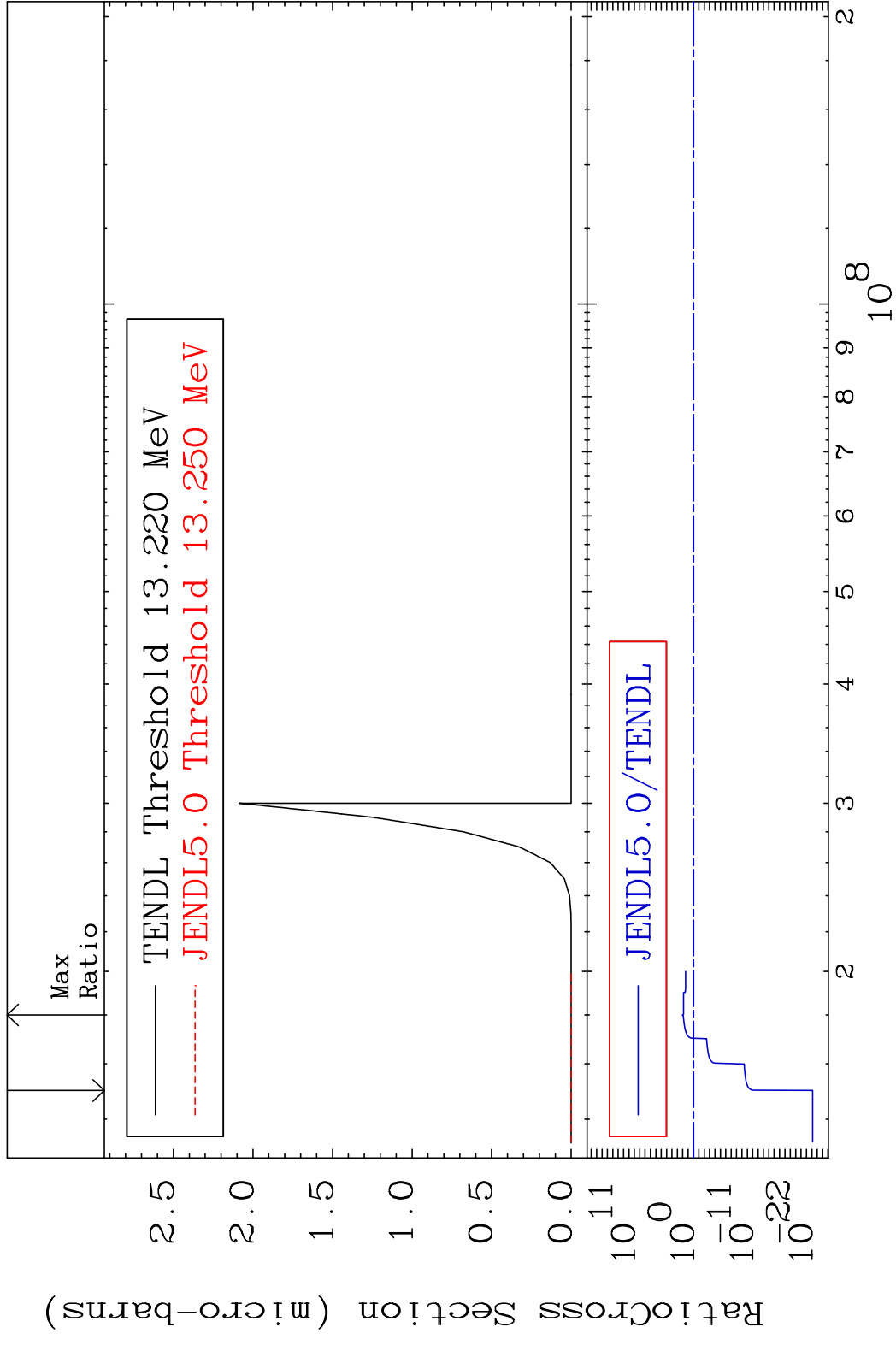


MAT 5825 (n,2p):56-Ba-135g 58-Ce-136
 Radionuclide Production Cross Section 180.01 dth 646.3 %

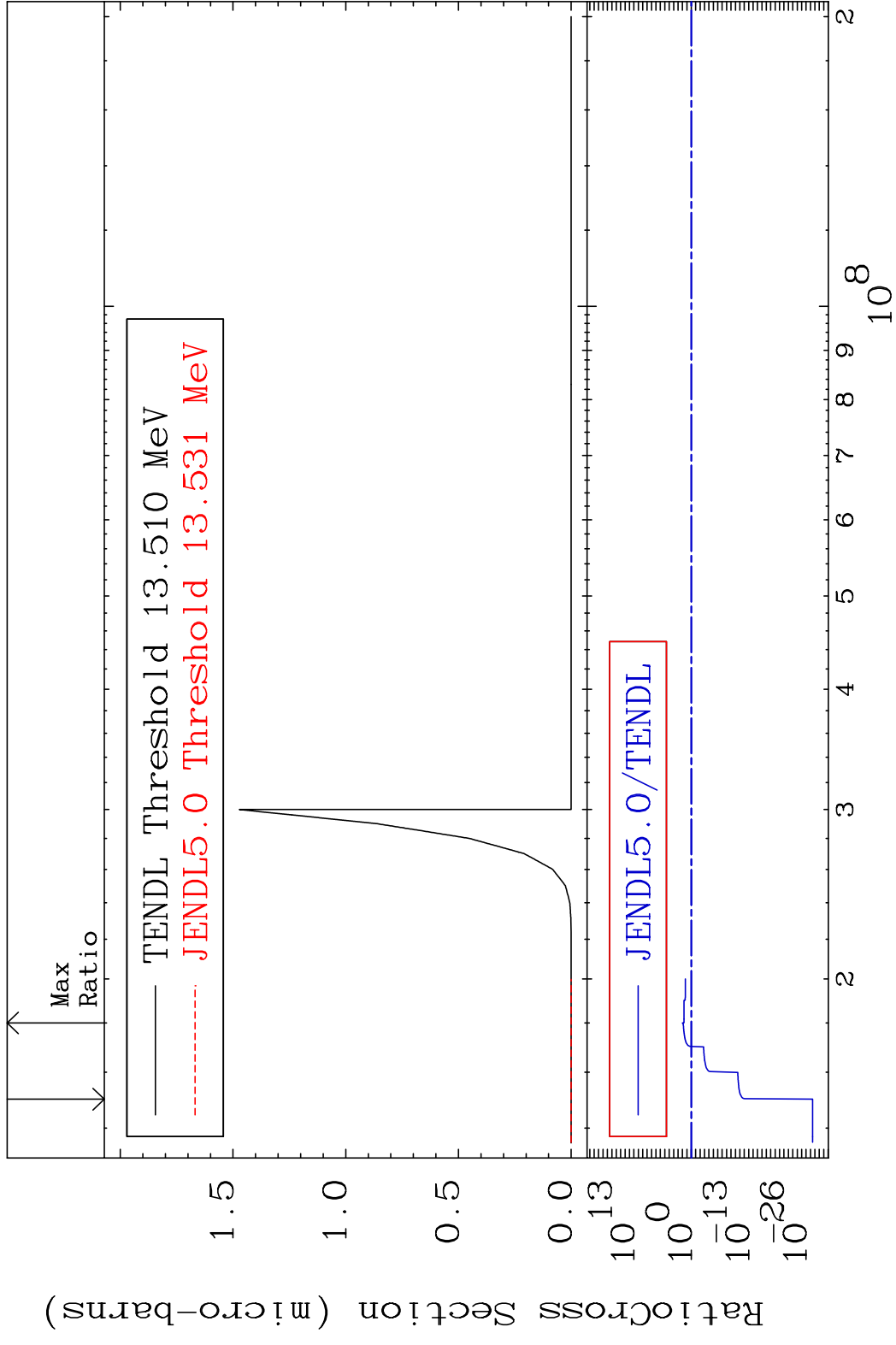


MAT 5825 (n, 2p) : 56-Ba-135m2 58-Ce-136
 Radionuclide Production Cross Section 180.0 dth 387.0 %

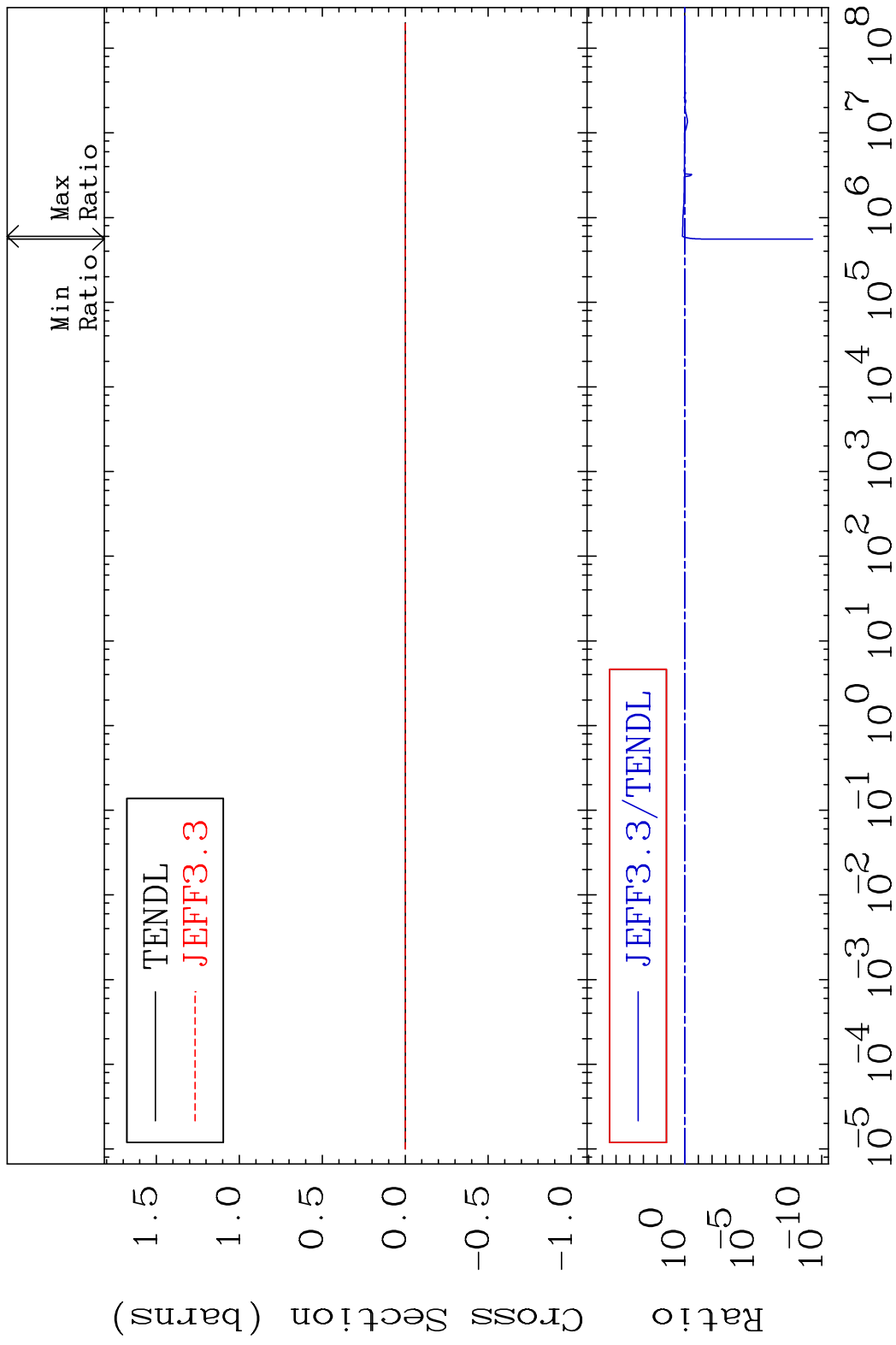




MAT 5825 (n, p) t:56-Ba-133m2 58-Ce-136
 Radionuclide Production Cross Section to 9999. %



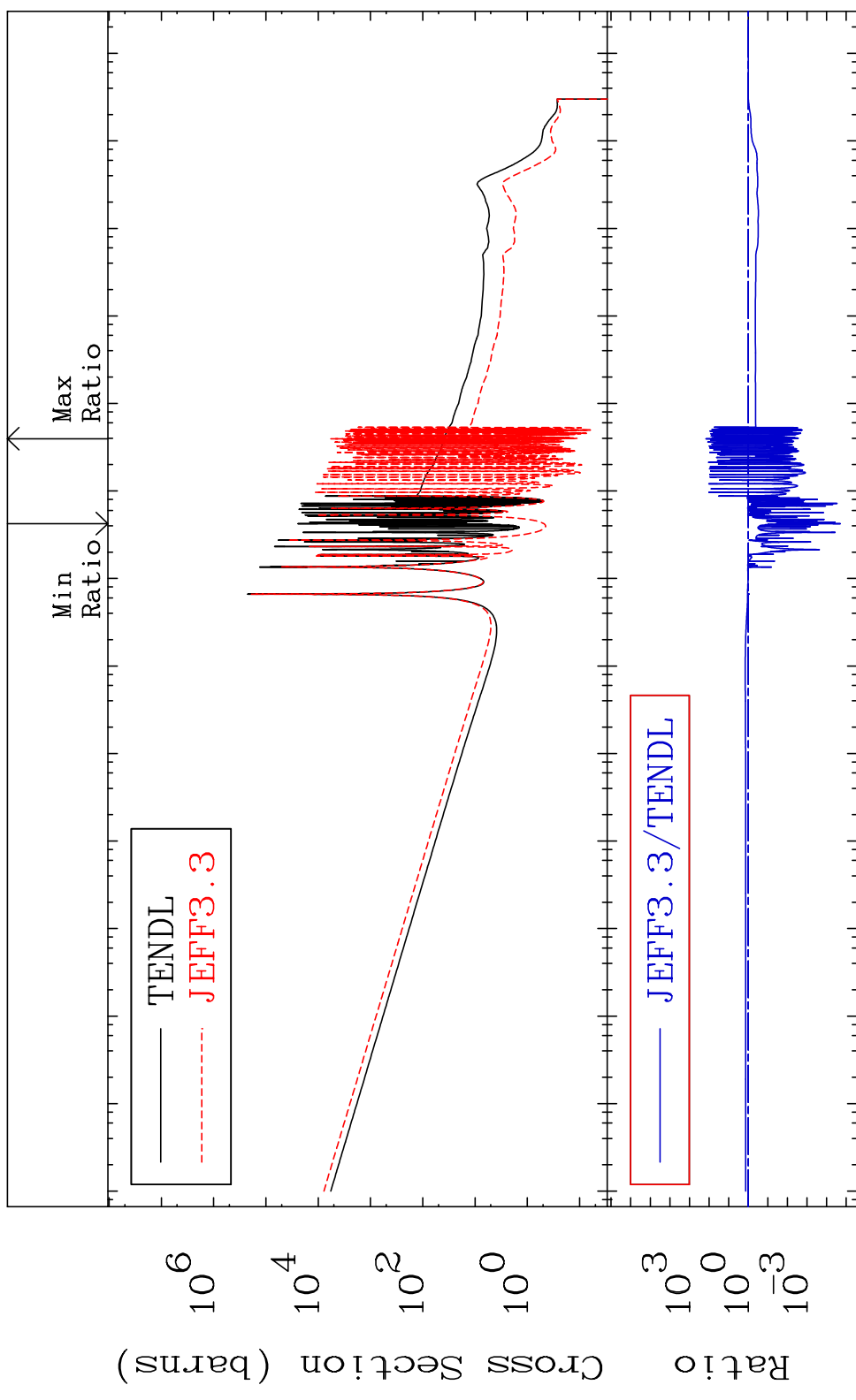
MAT 5825 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-136
 Cross Section -100.0 To 45.53 %



MAT 5825

Kerma capture (mt102) 58-Ce-136

Cross Section -100.0 To 9999. %

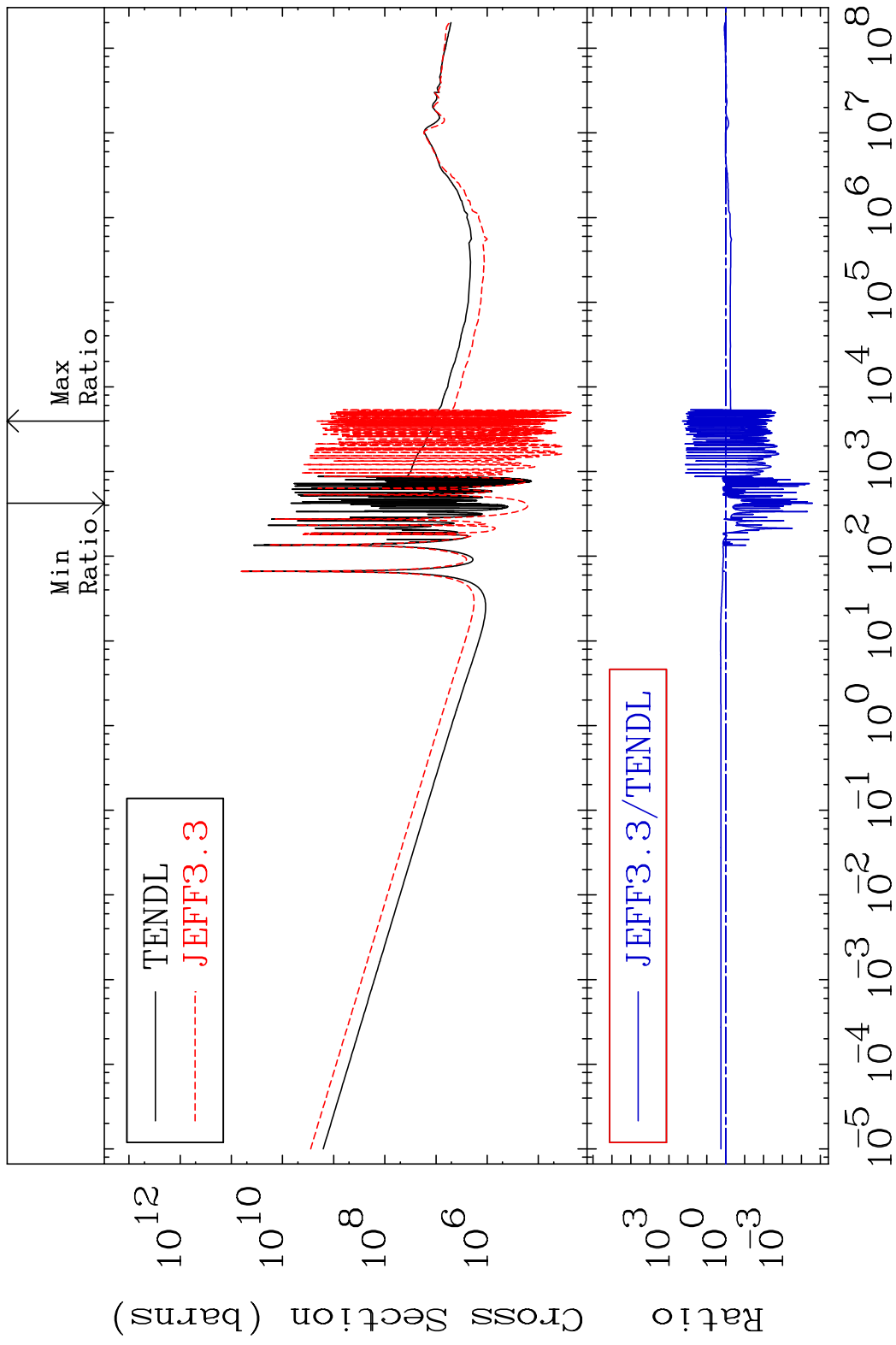


72

Incident Energy (eV)

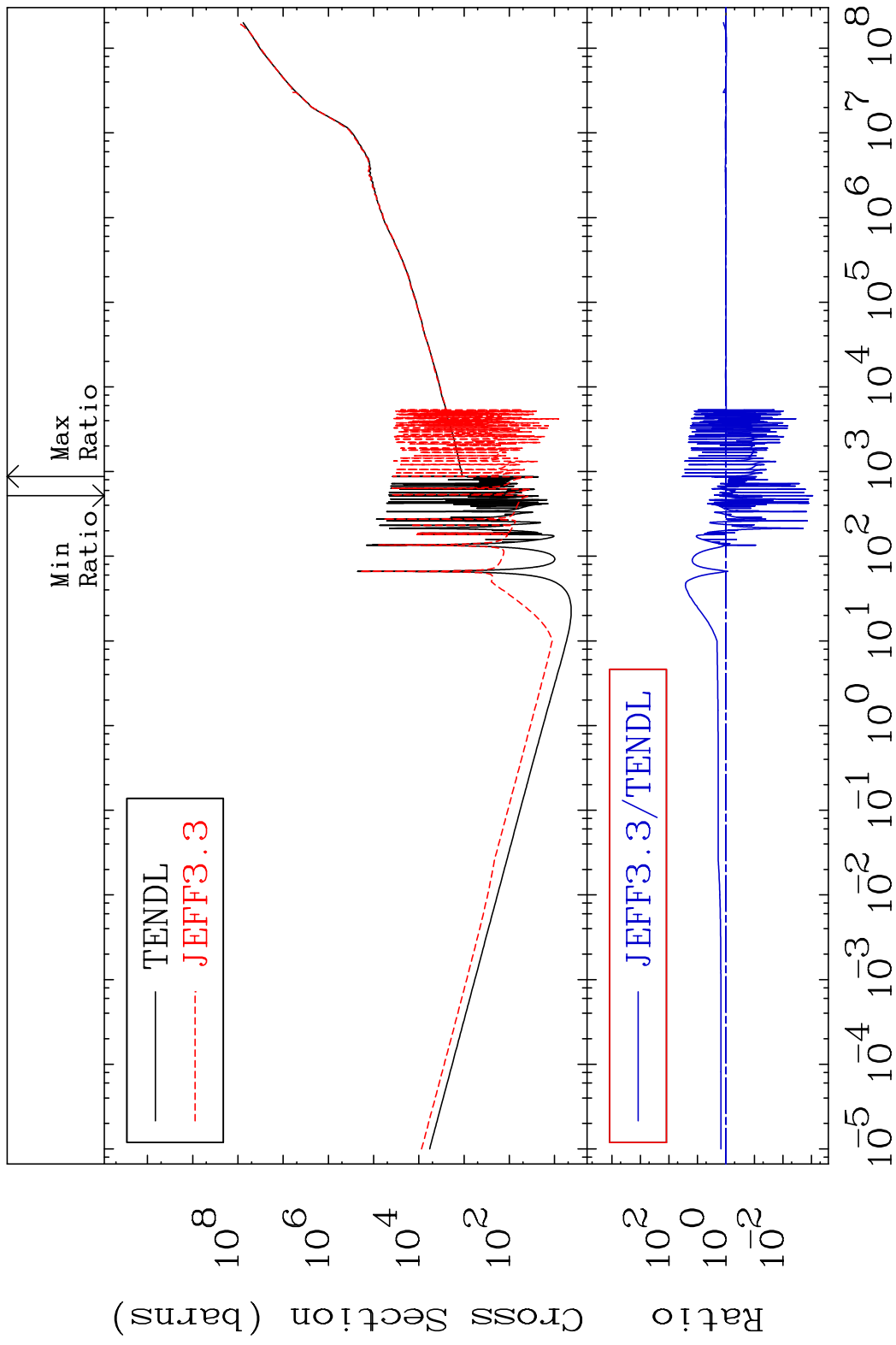
58-Ce-136

MAT 5825 Total photon (eV-barns) 58-Ce-136
Cross Section -100.0 To 9999. %



73 Incident Energy (eV) 58-Ce-136

MAT 5825 Total kinematic kerma (high limit) 58-Ce-136
 Cross Section -99.91 To 3297. %

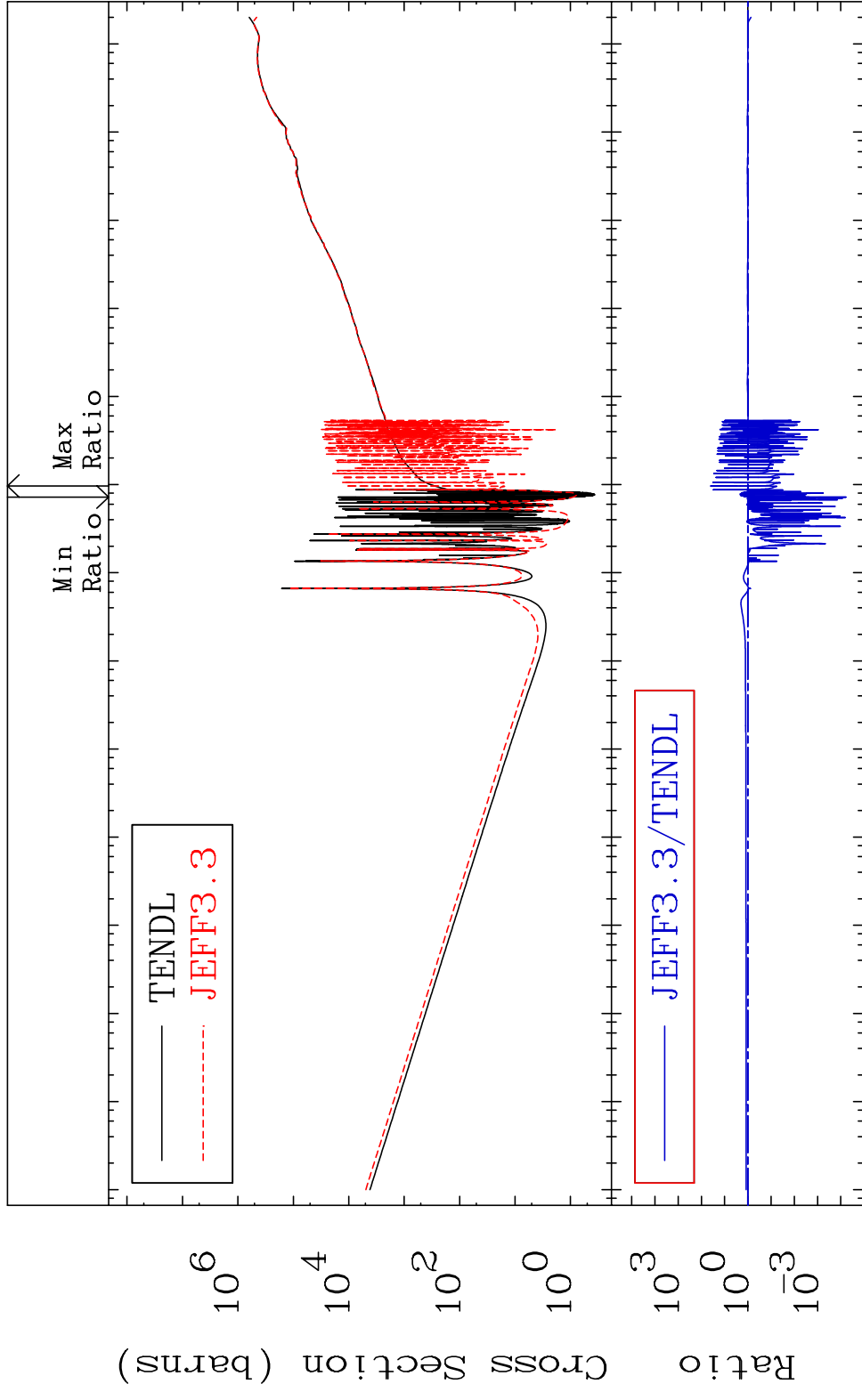


MAT 5825

Dpa total (eV-barns)

58-Ce-136

Cross Section -99.99 To 3863. %



75

Incident Energy (eV)

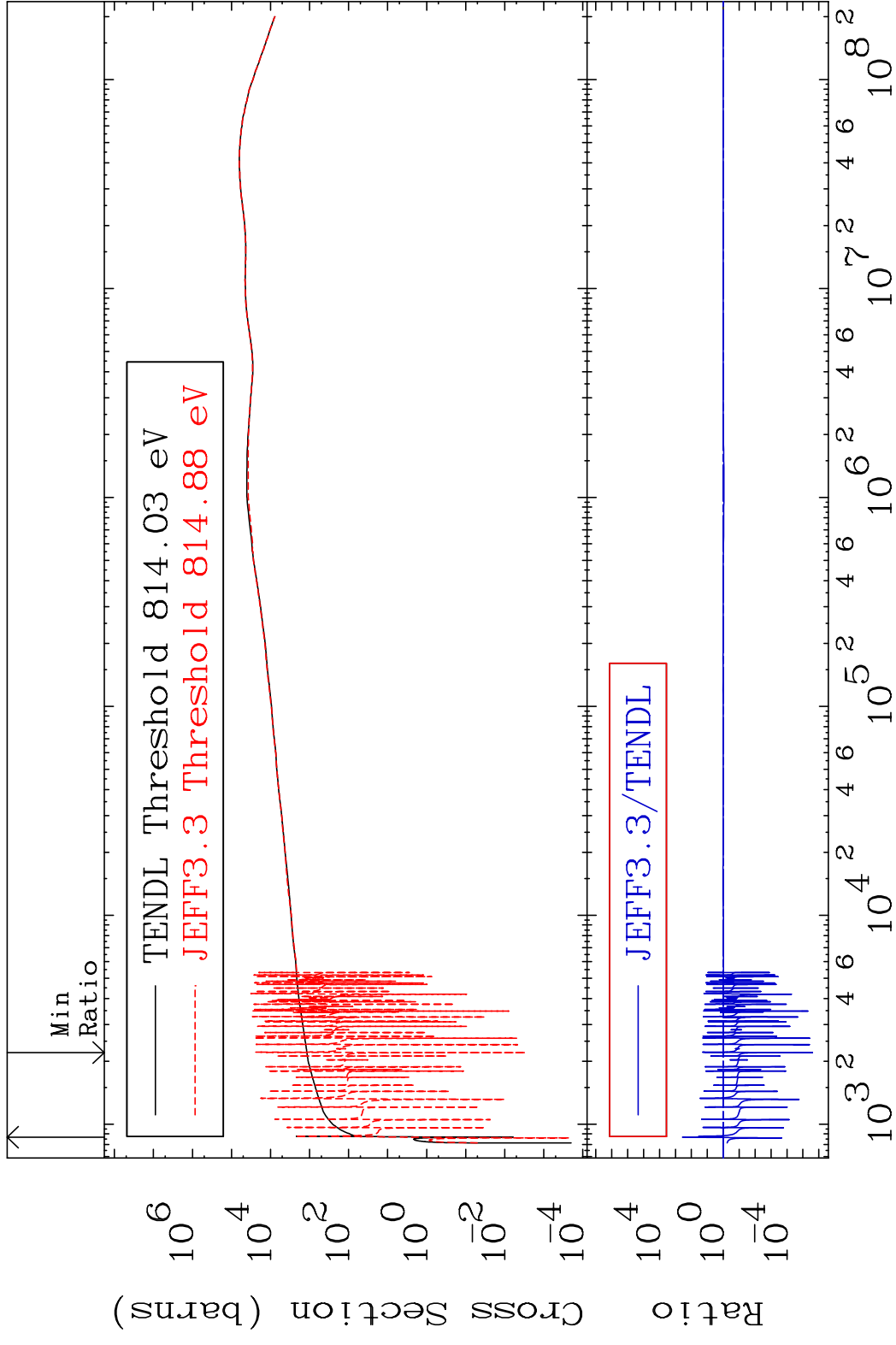
58-Ce-136

MAT 5825

Dpa elastic (mt2)

58-Ce-136

Cross Section -100.0 To 9999. %

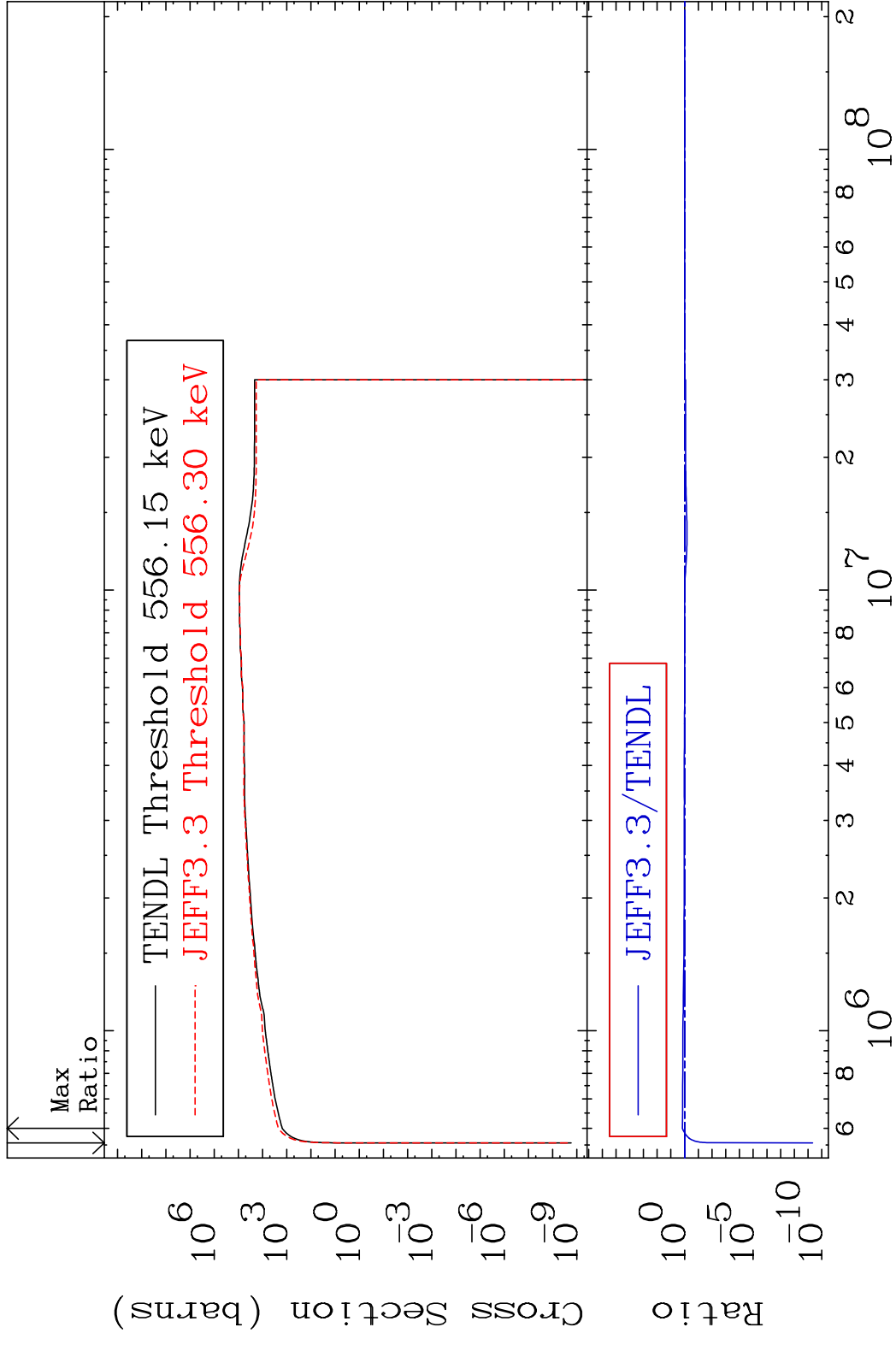


76

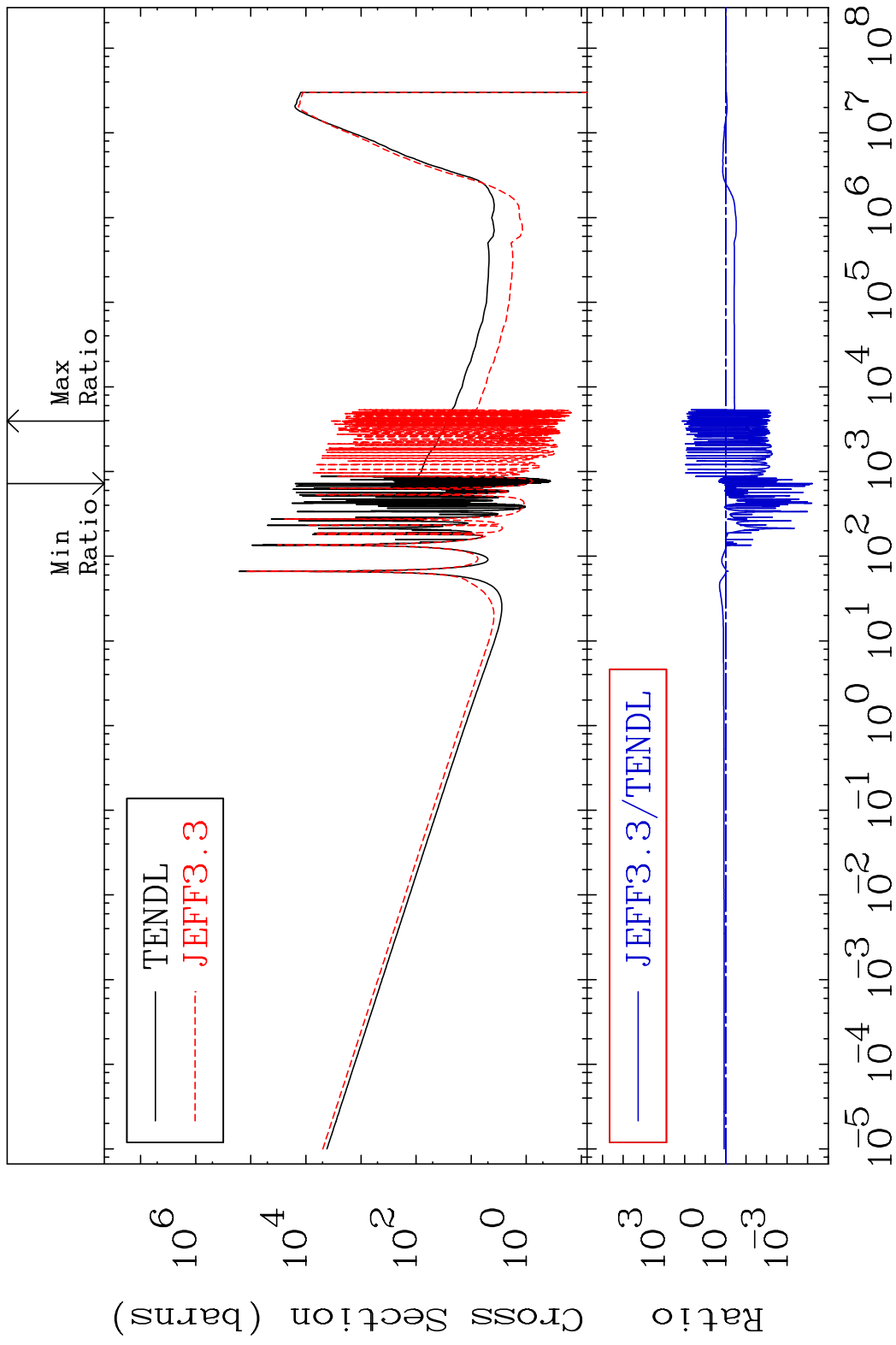
Incident Energy (eV)

58-Ce-136

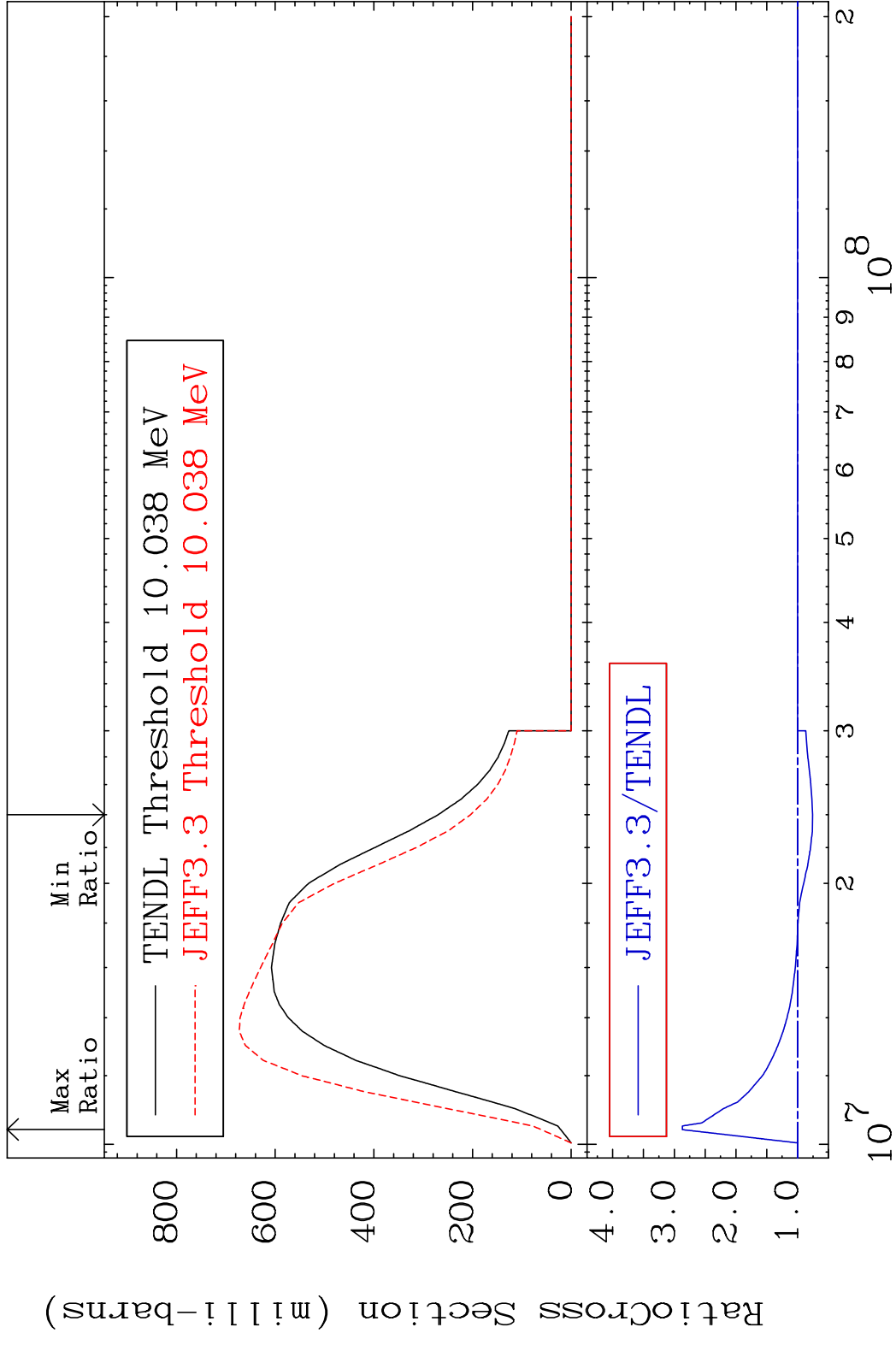
MAT 5825 Dpa inelastic (mt51-91) 58-Ce-136
 Cross Section -100.0 To 45.52 %



MAT 5825 Dpa disappearance (mt102 -120) 58-Ce-136
 Cross Section -99.99 To 9999. %

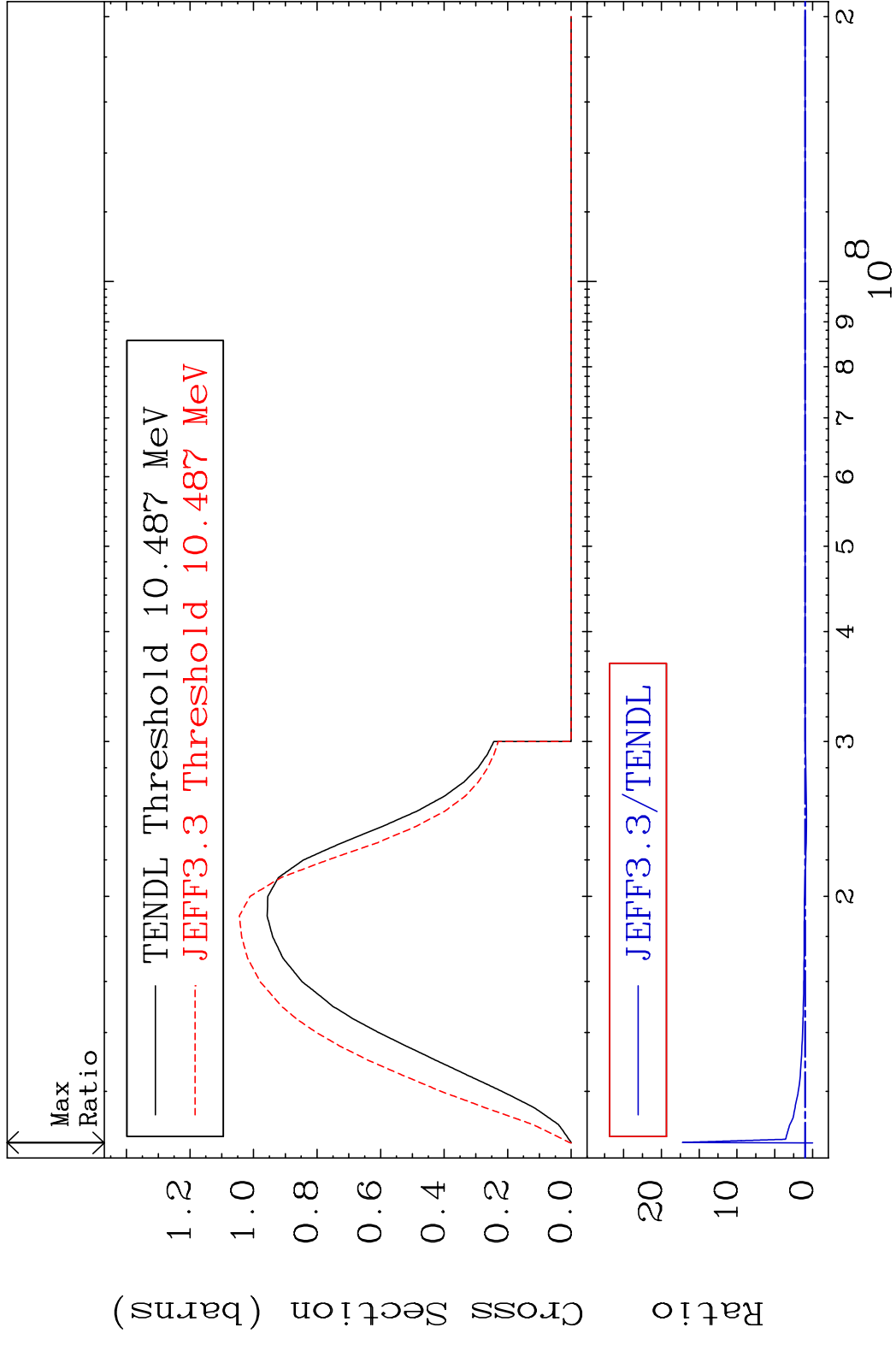


MAT 5825 (n,2n):58-Ce-135g 58-Ce-136
 Radionuclide Production Cross Section 186.9 %

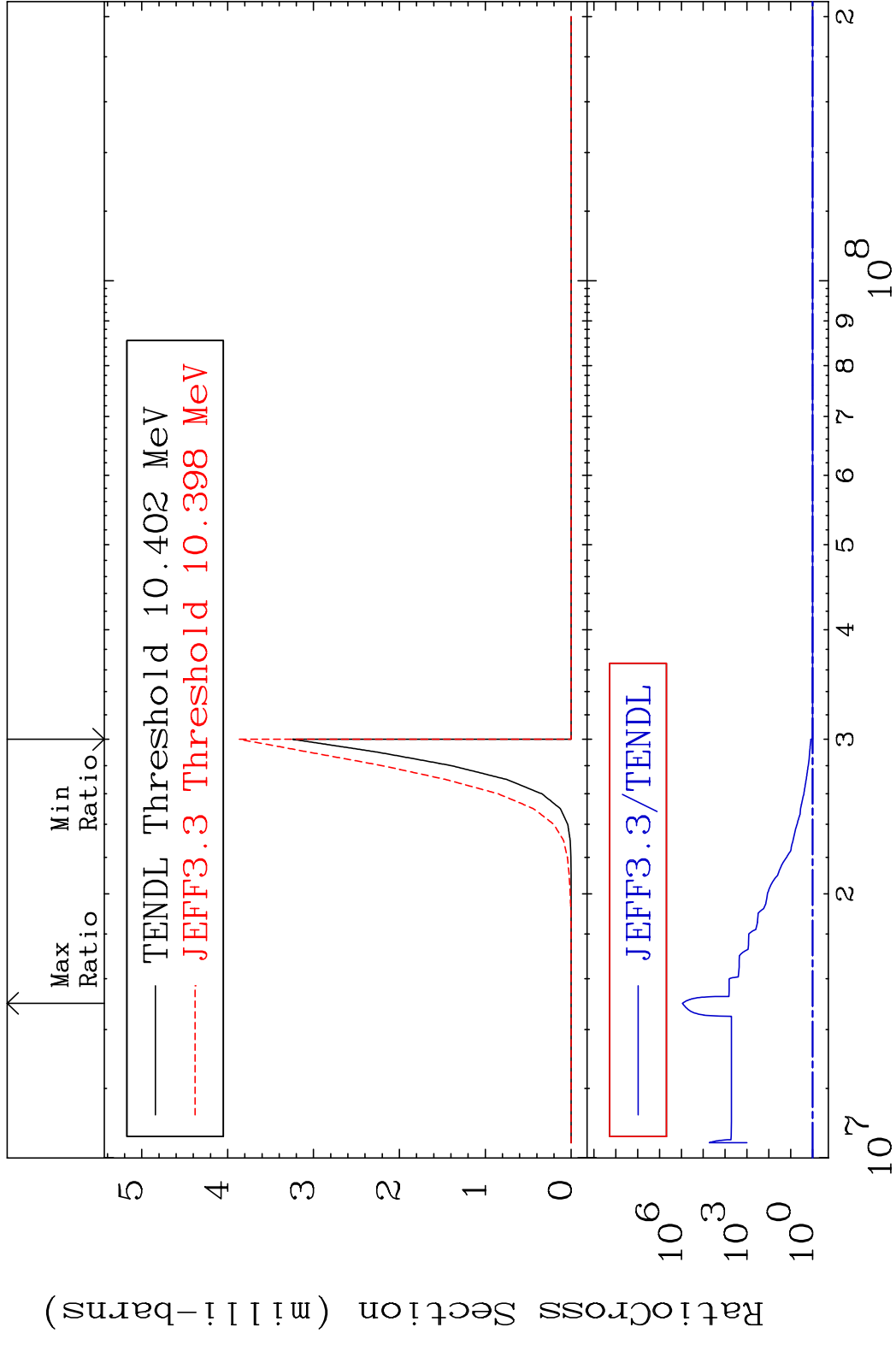


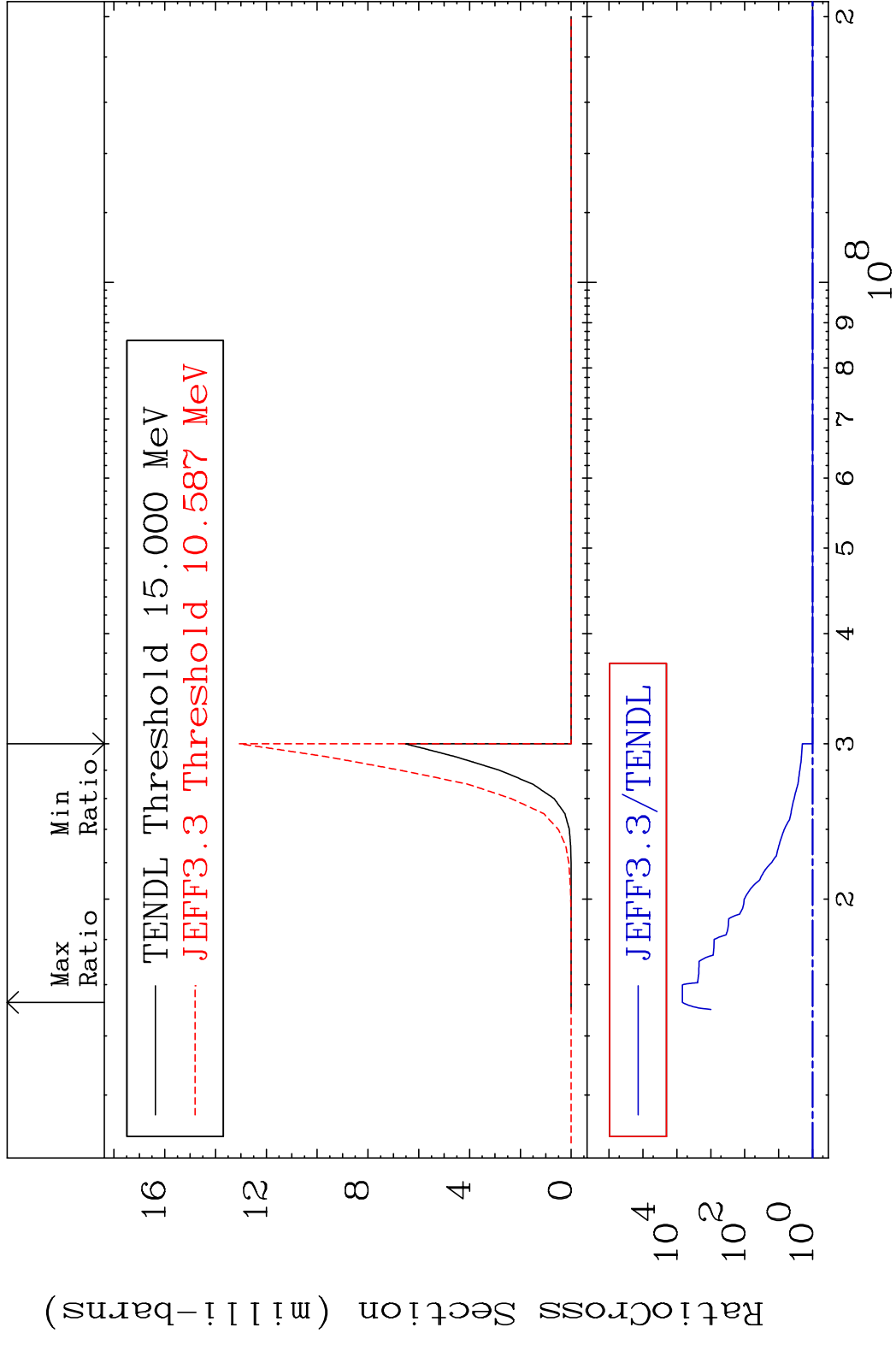
79 Incident Energy (eV) 58-Ce-136

MAT 5825 (n,2n):58-Ce-135m4 58-Ce-136
 Radionuclide Production Cross Section 180.01 dth 1622. %

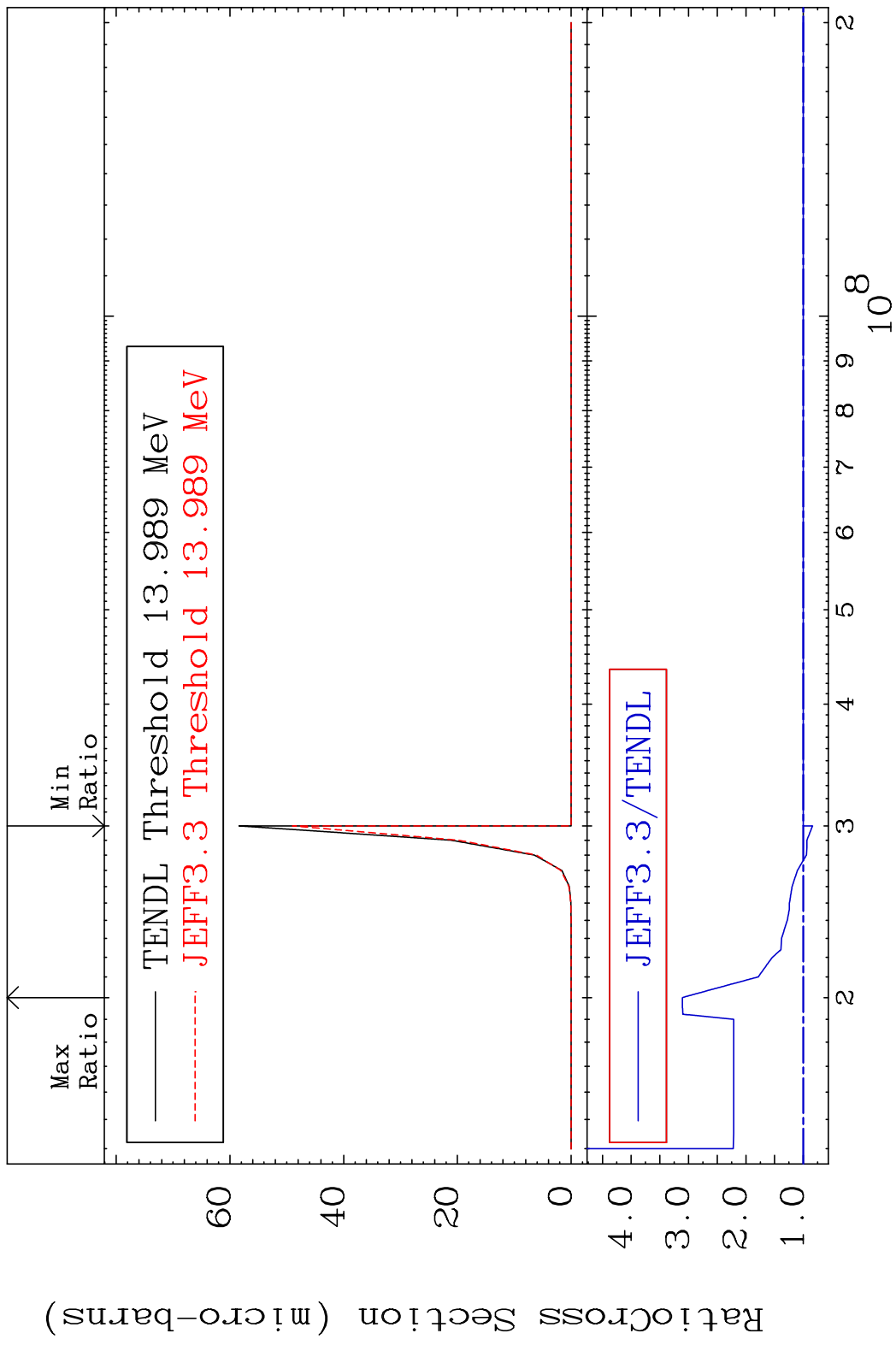


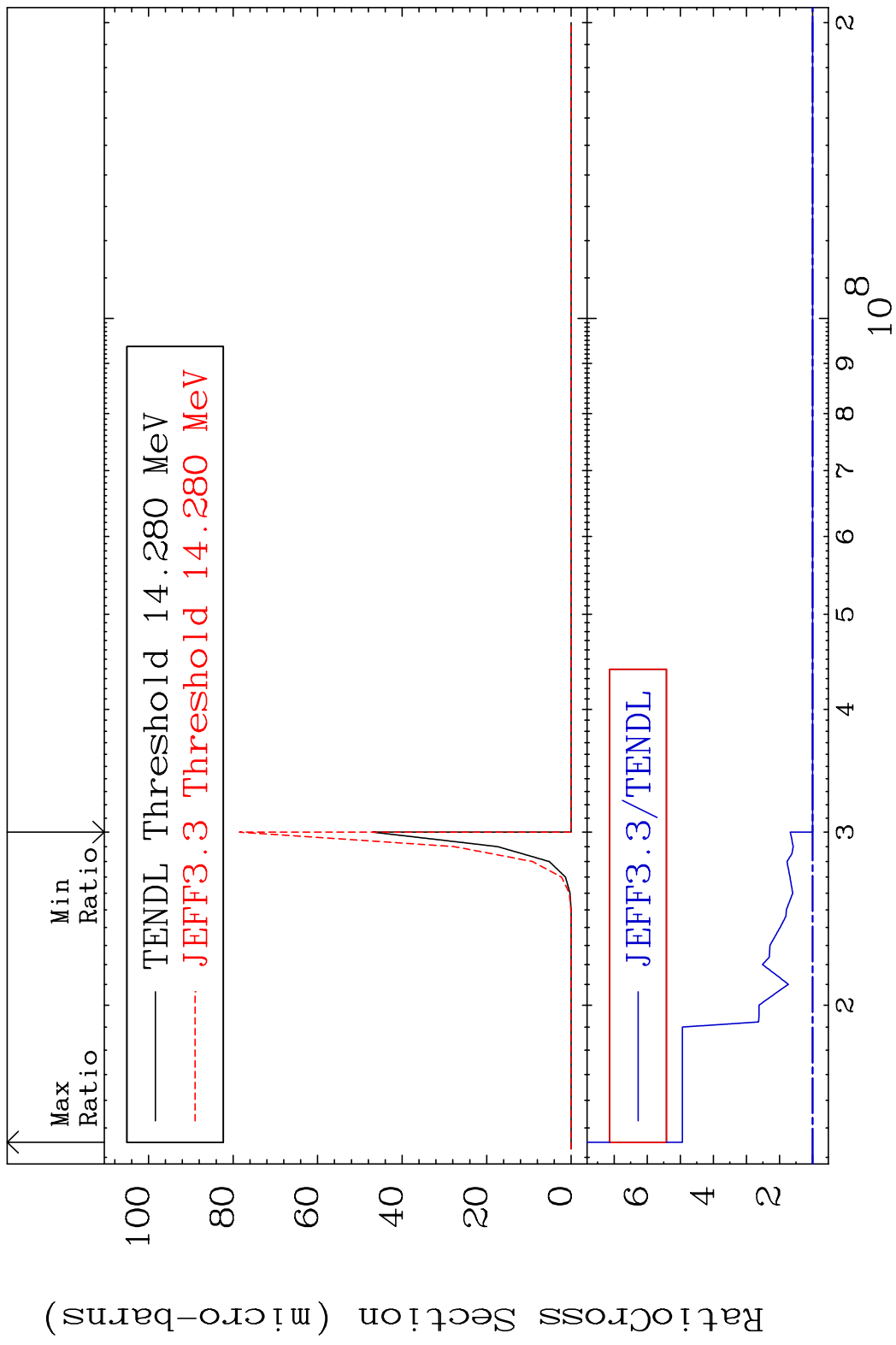
MAT 5825 (n,2n) α :56-Ba-131g 58-Ce-136
 Radionuclide Production Cross Section 9999. %



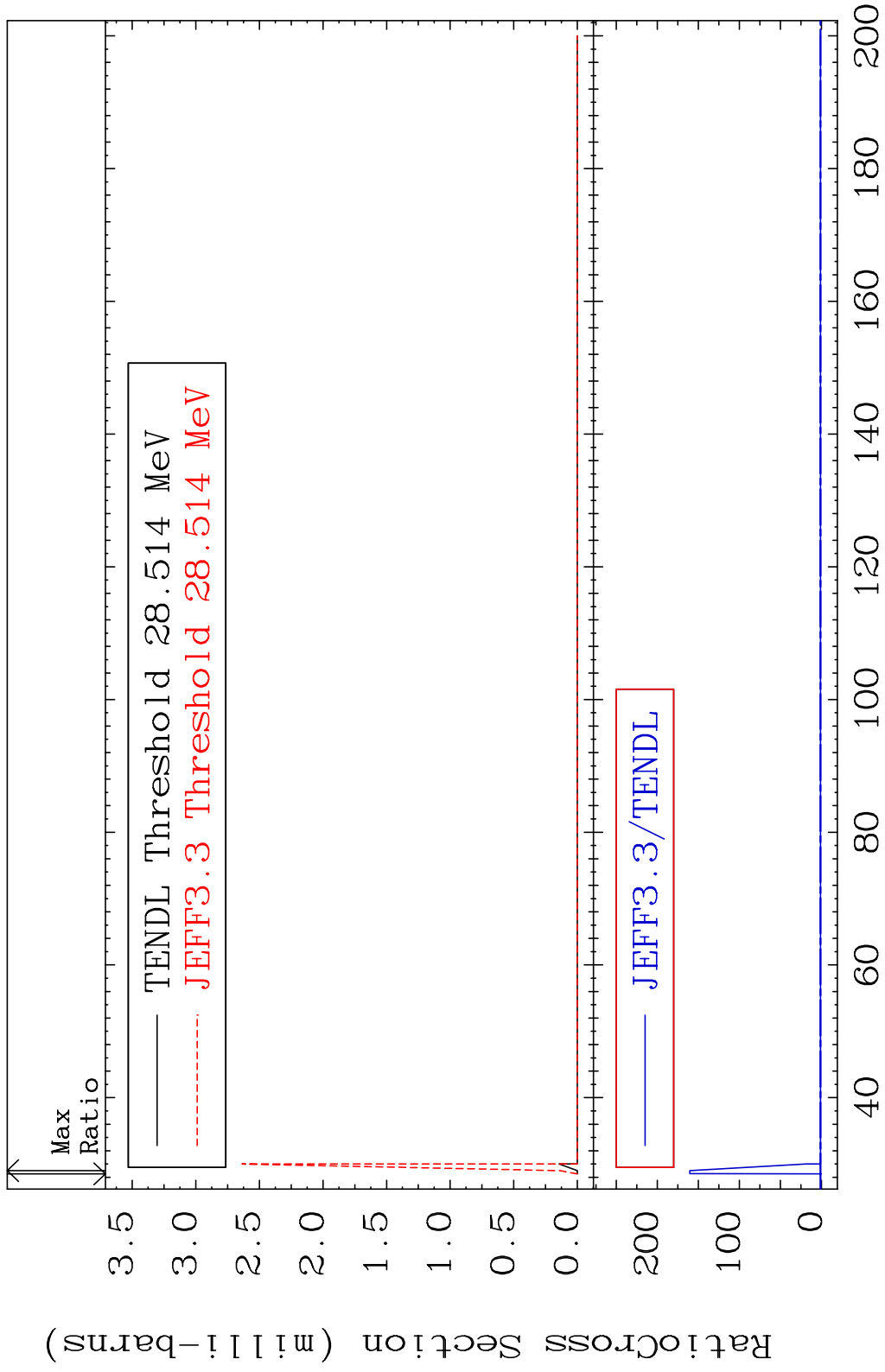


MAT 5825 (n, n') He-3:56-Ba-133g 58-Ce-136
 Radionuclide Production Cross Section to 210.8 %



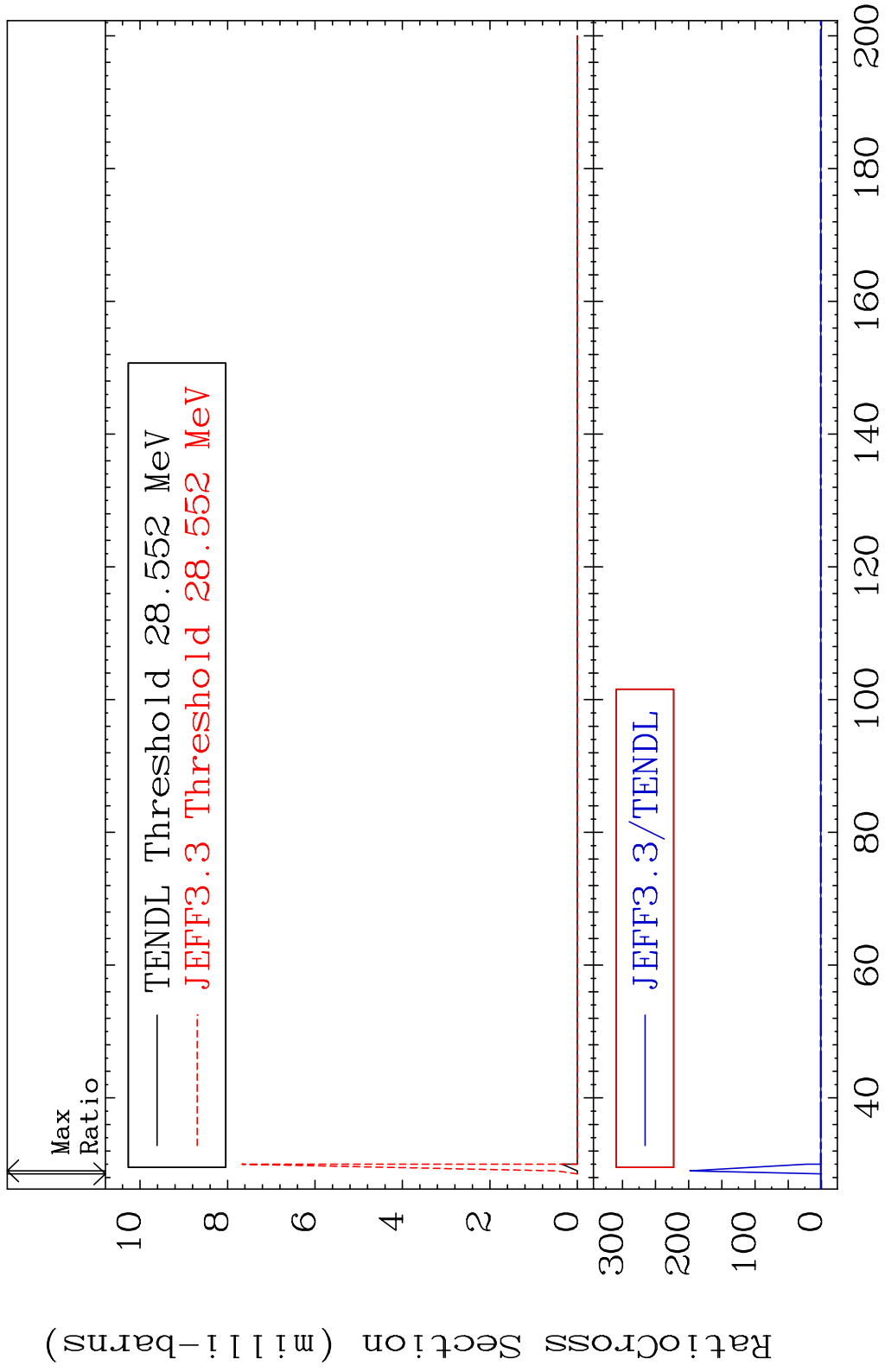


MAT 5825 (n,4n):58-Ce-133g 58-Ce-136
 Radionuclide Production Cross Section Ratio 9999. %

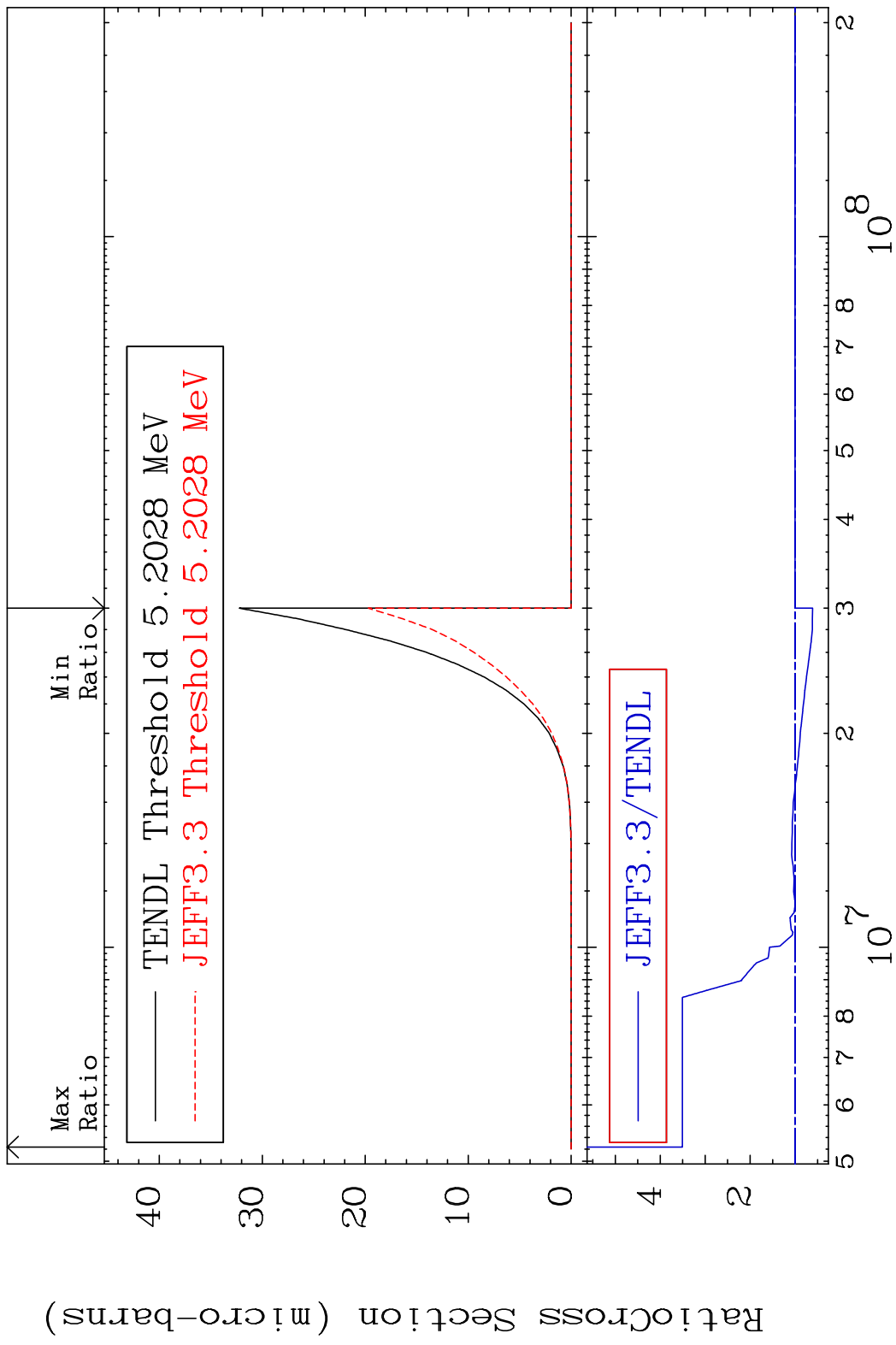


85 Incident Energy (MeV) 58-Ce-136

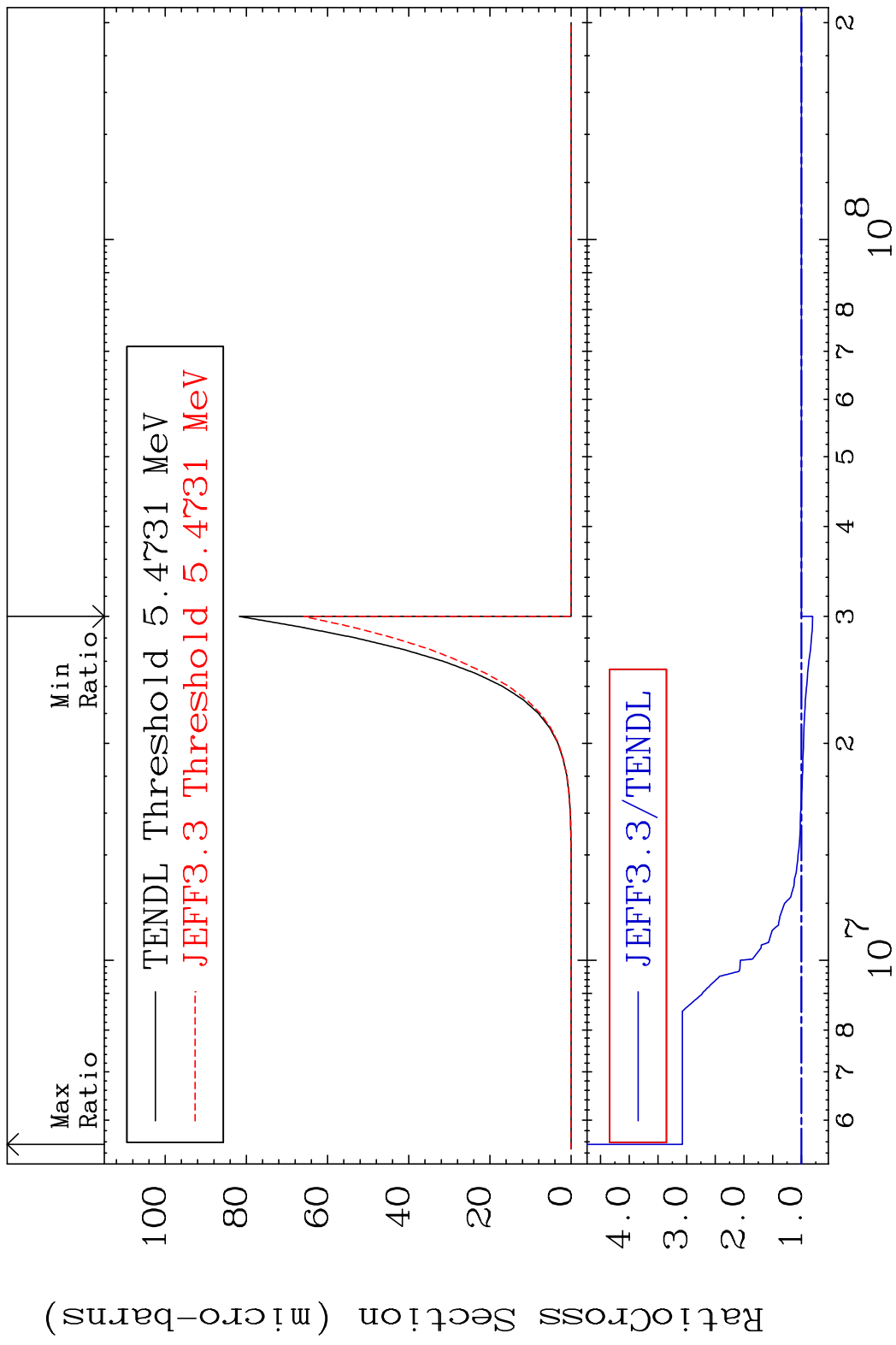
MAT 5825 (n, 4n):58-Ce-133m1 58-Ce-136
 Radionuclide Production Cross Section Ratio 9999. %

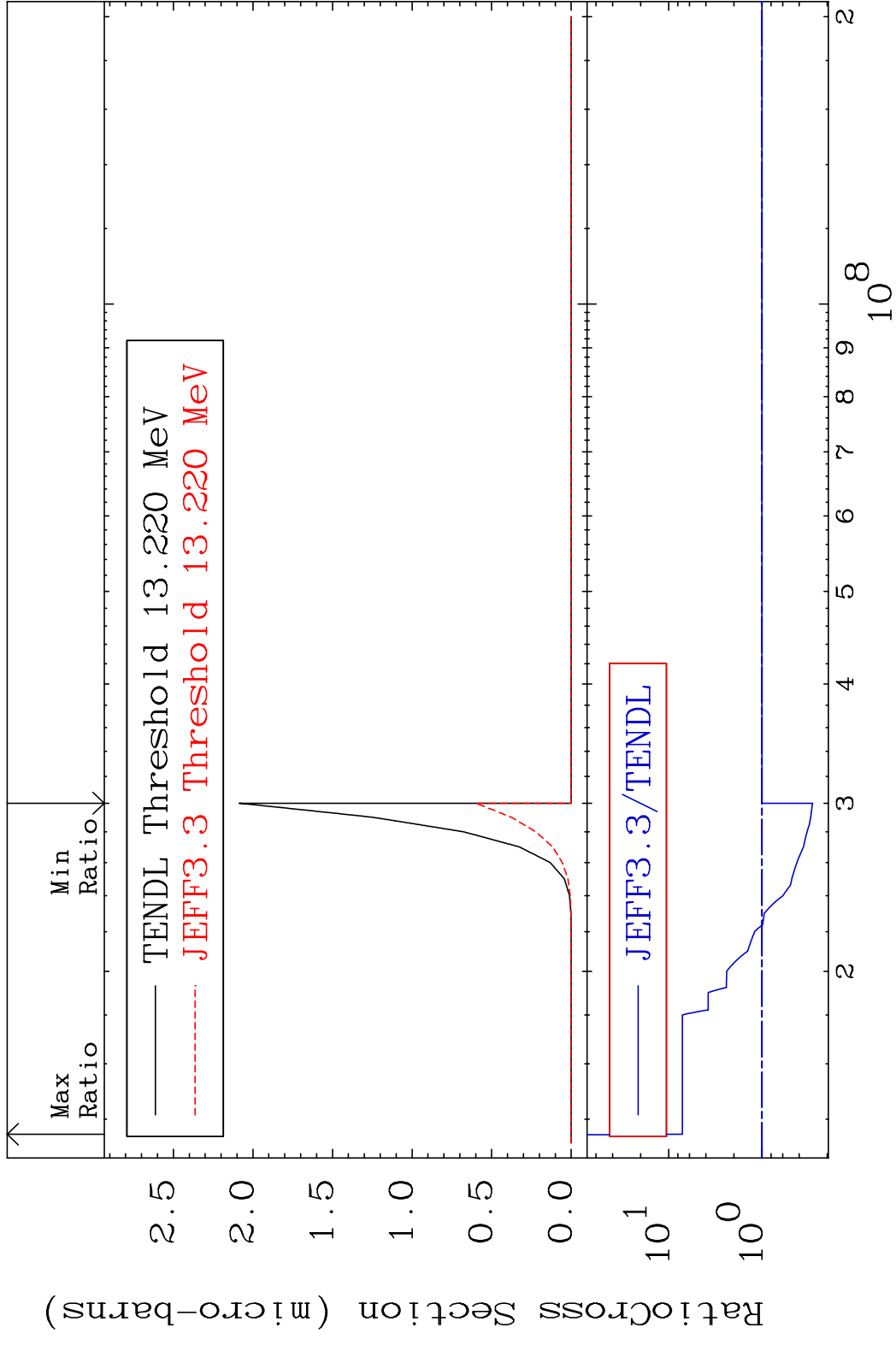


MAT 5825 (n,2p):56-Ba-135g 58-Ce-136
 Radionuclide Production Cross Section 38e-21 to 250.8 %



MAT 5825 (n, 2p): 56-Ba-135m2 58-Ce-136
 Radionuclide Production Cross Section 19e371 d10 207.4 %





MAT 5825 (n, p) t:56-Ba-133m2 58-Ce-136
 Radionuclide Production Cross Section 631.9 %

