

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

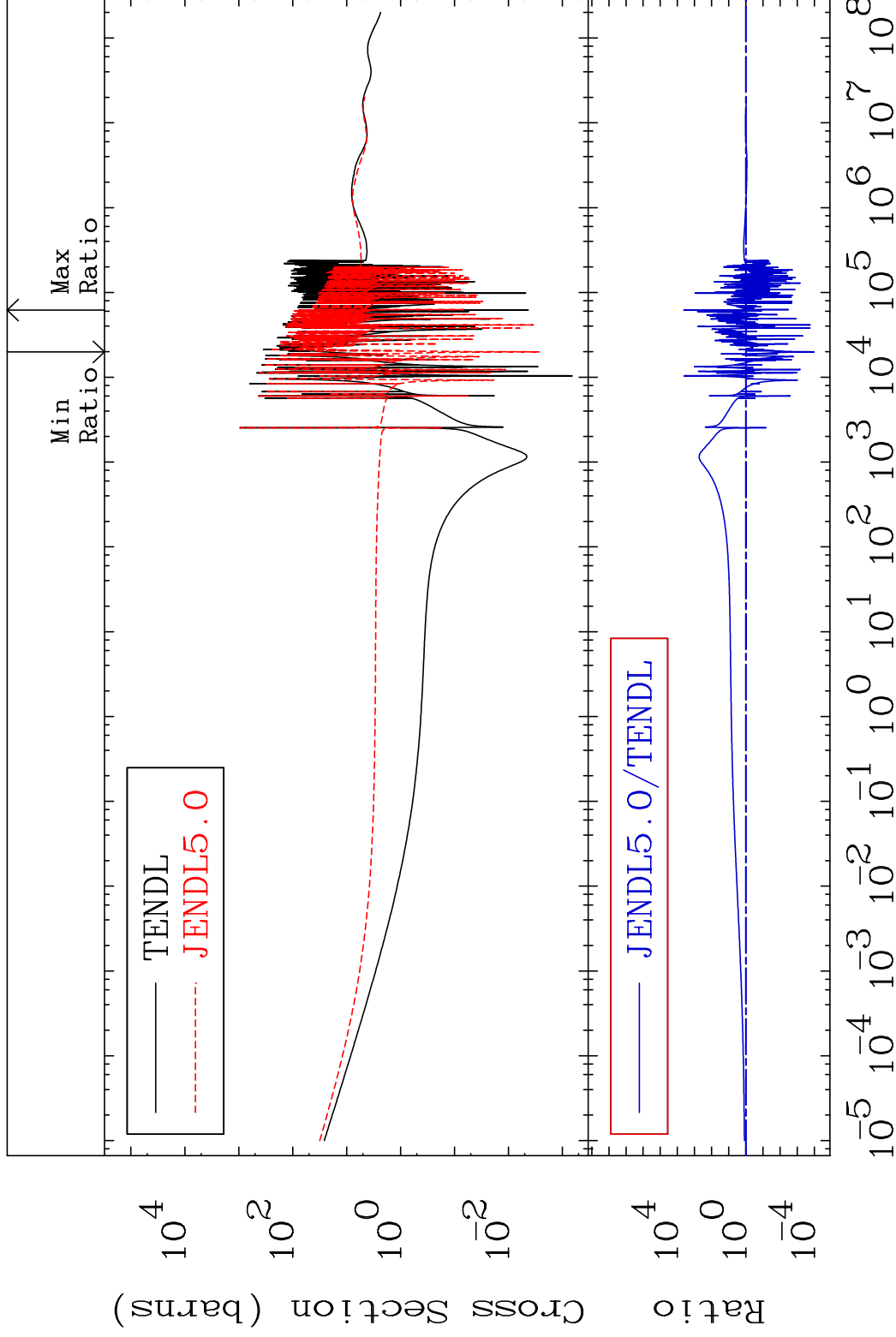
MAT 5837

Total

58-Ce-140

Cross Section

-99.99 To 9999. %



1

Incident Energy (eV)

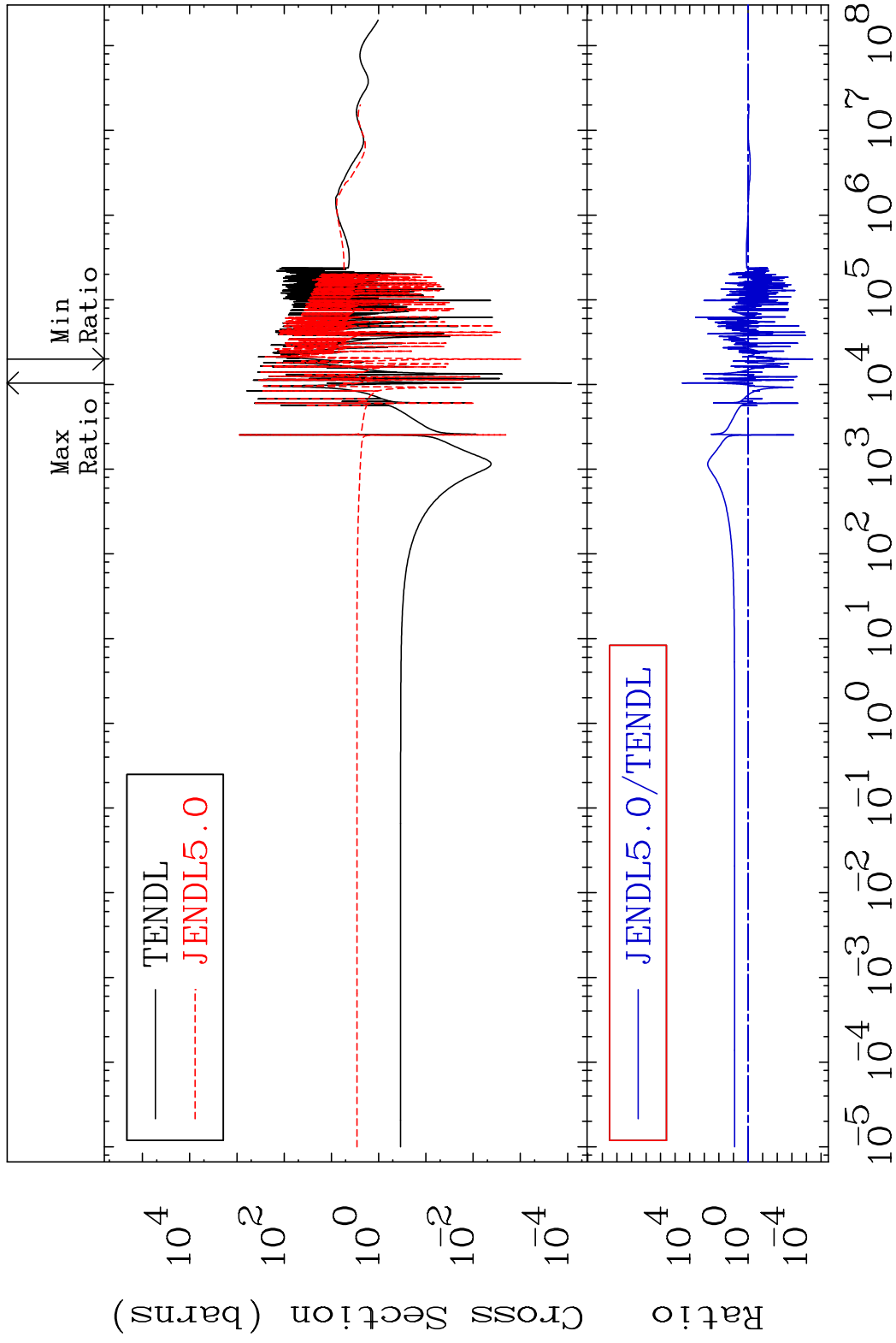
58-Ce-140

MAT 5837

Elastic

58-Ce-140

Cross Section -100.0 To 9999. %



2

Incident Energy (eV)

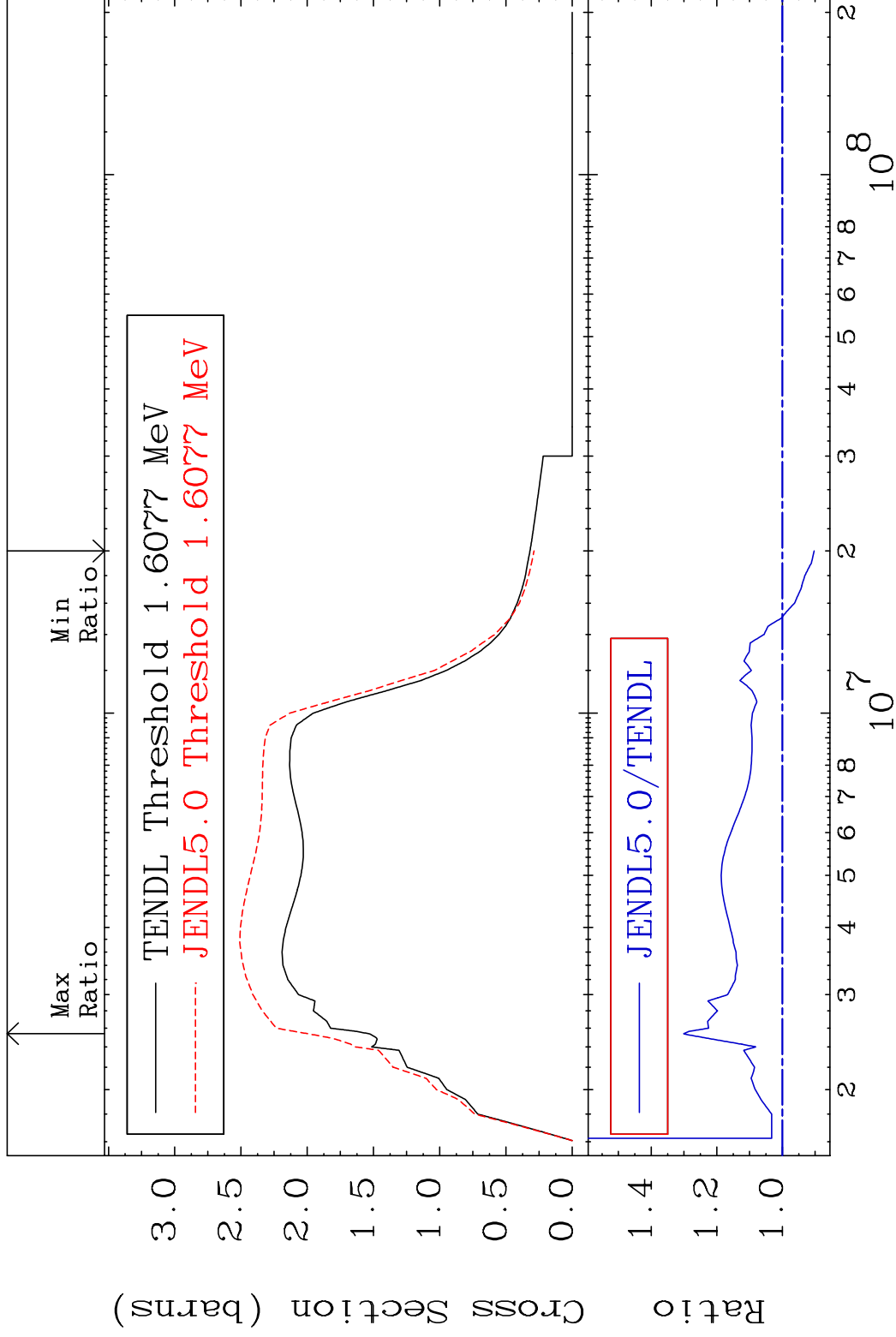
58-Ce-140

MAT 5837

Inelastic

58-Ce-140

Cross Section -9.6882 To 30.10 %



3

Incident Energy (eV)

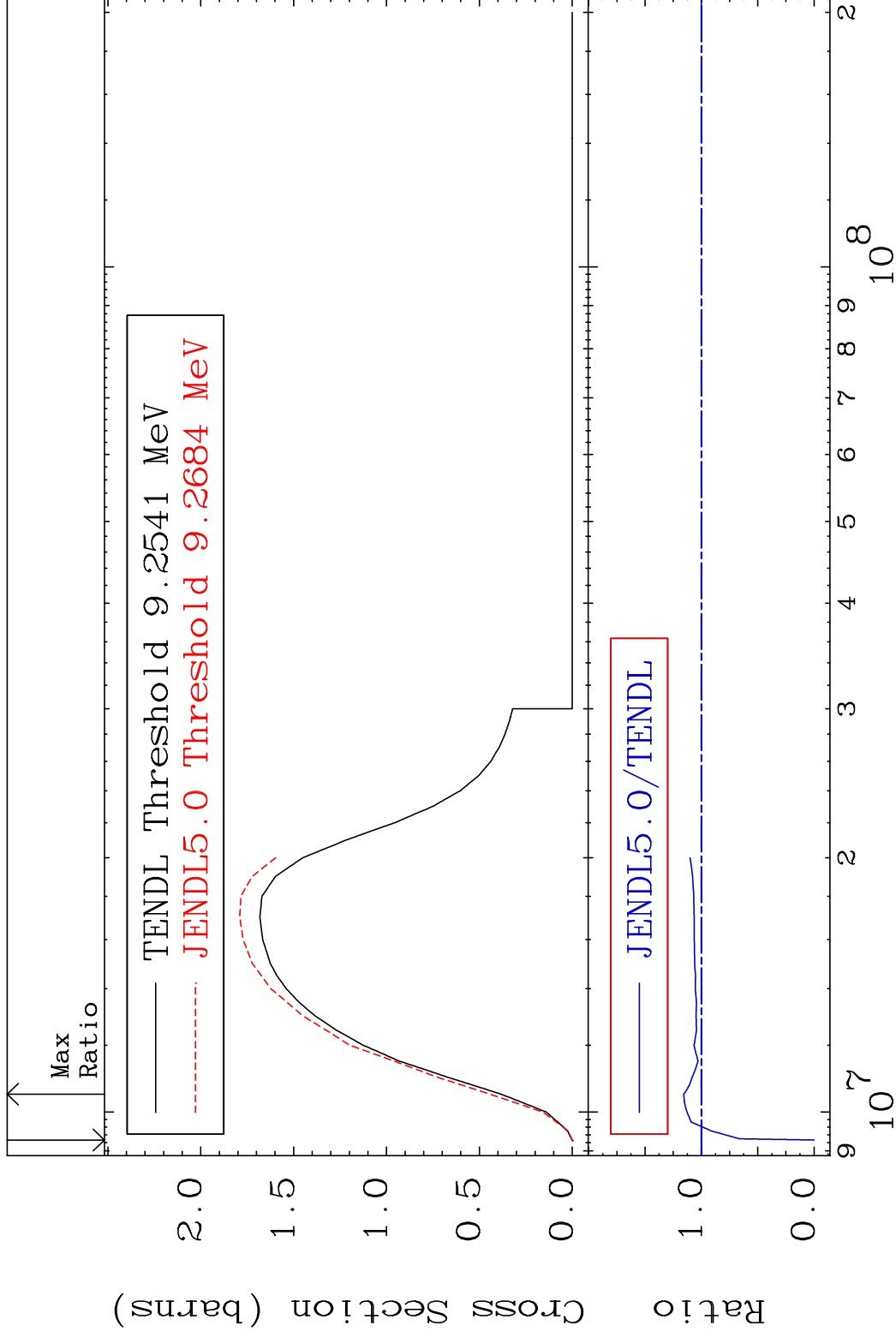
58-Ce-140

MAT 5837

(n,2n)

58-Ce-140

Cross Section -100.0 To 15.74 %



4

Incident Energy (eV)

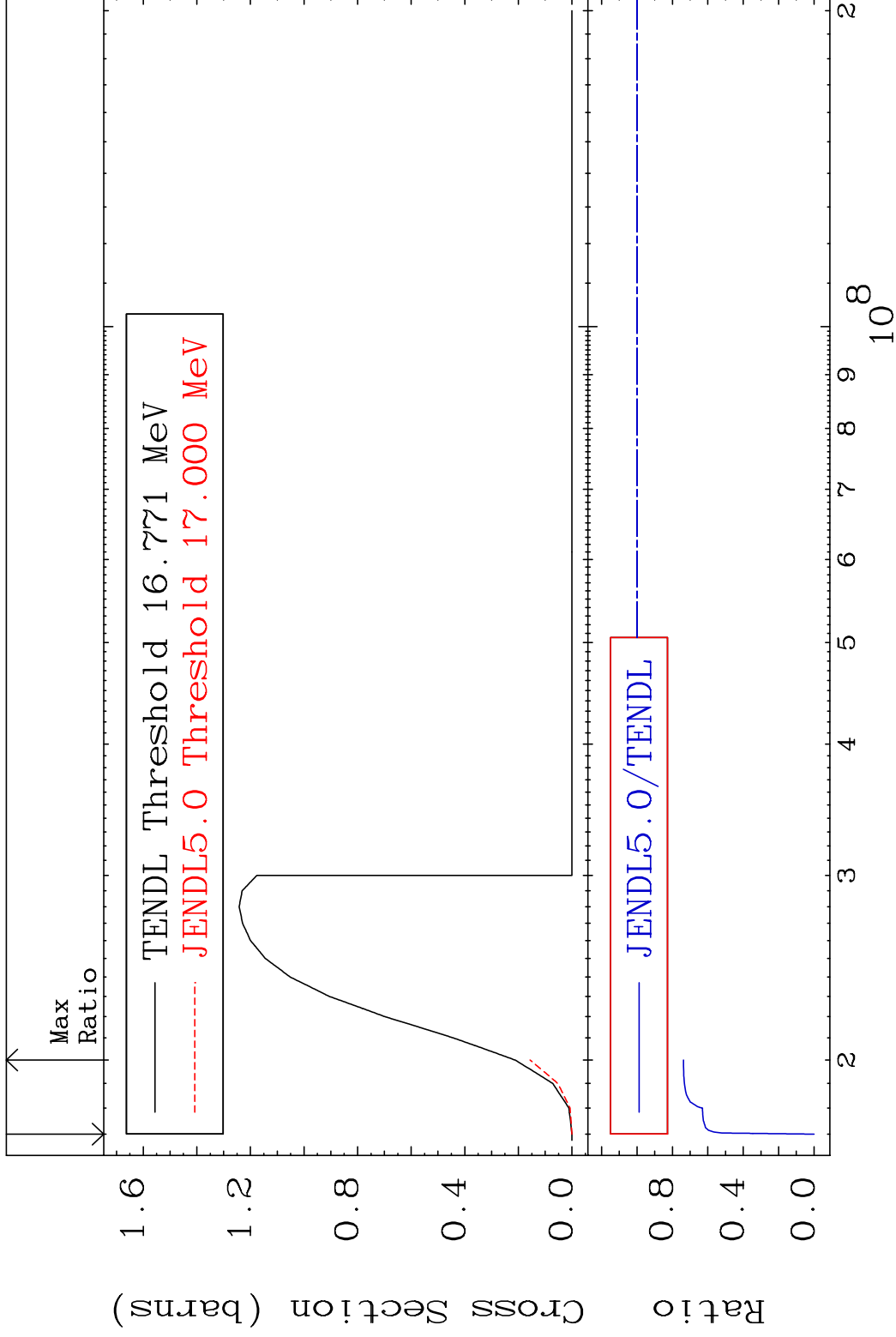
58-Ce-140

MAT 5837

(n,3n)

58-Ce-140

Cross Section -100.0 To -26.23%

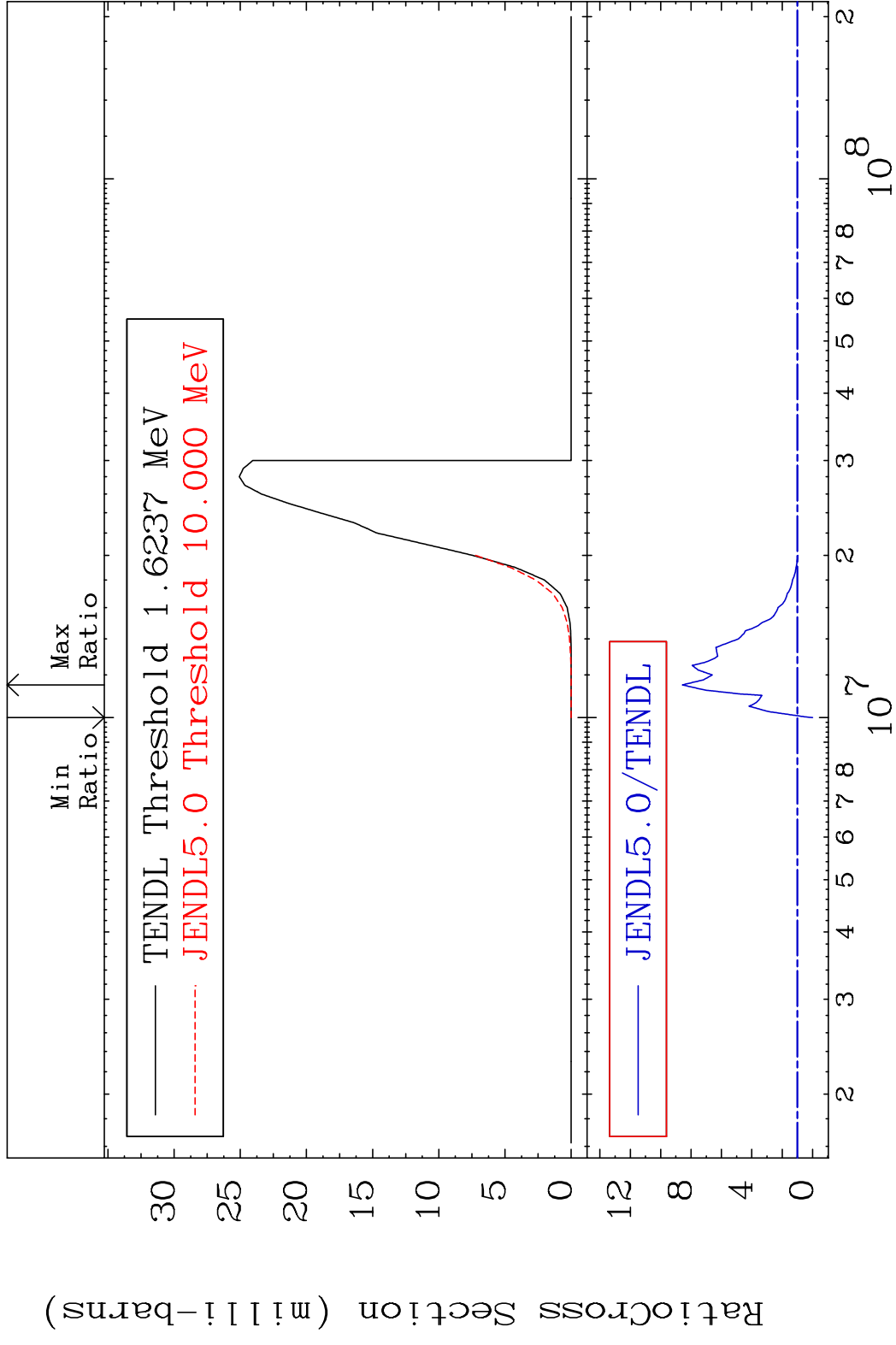


5

Incident Energy (eV)

58-Ce-140

MAT 5837 (n, n') α 58-Ce-140
 Cross Section -100.0 To 757.3 %



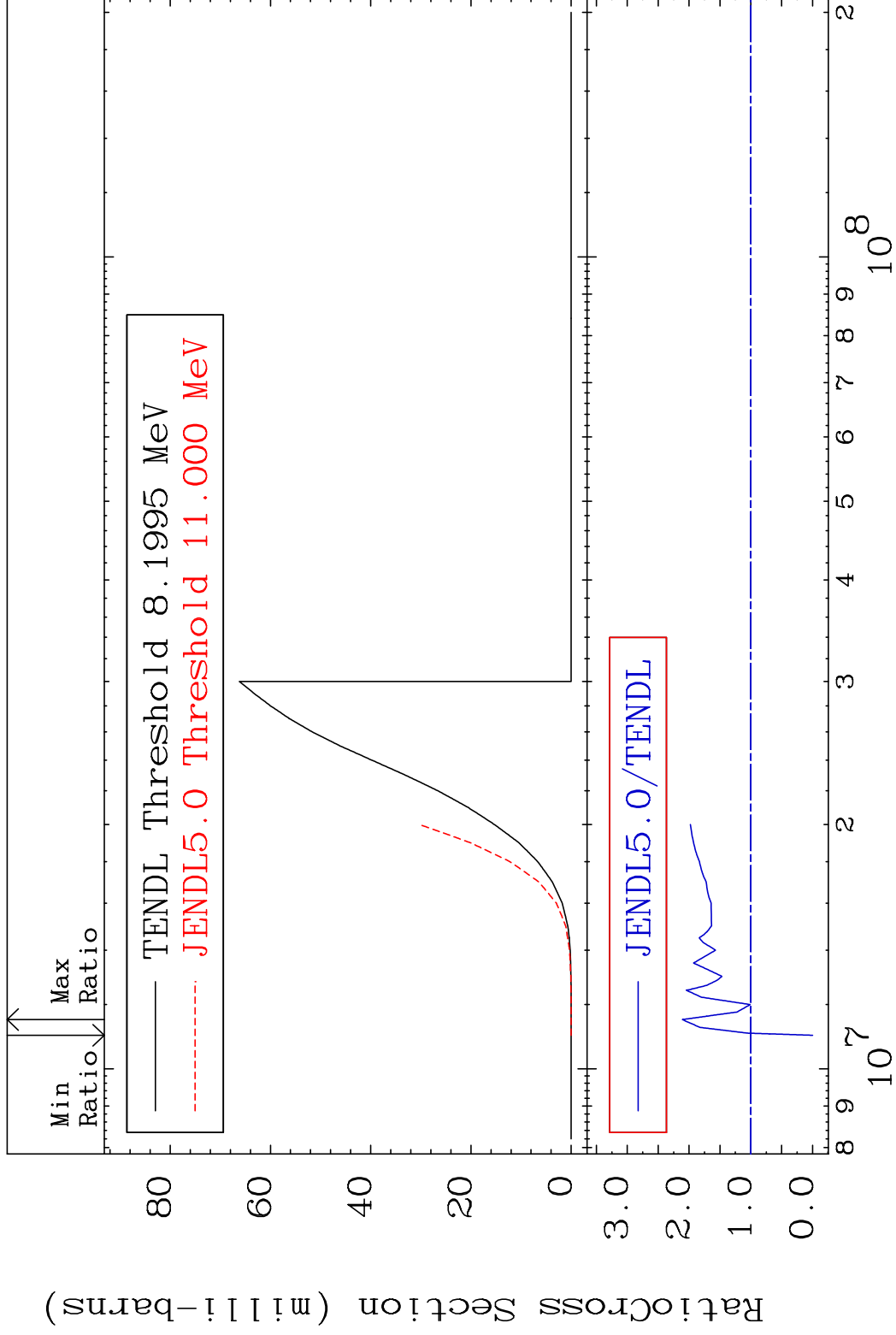
6 Incident Energy (eV) 58-Ce-140

MAT 5837

(n, n') p

58-Ce-140

Cross Section -100.0 To 110.9 %



7

Incident Energy (eV)

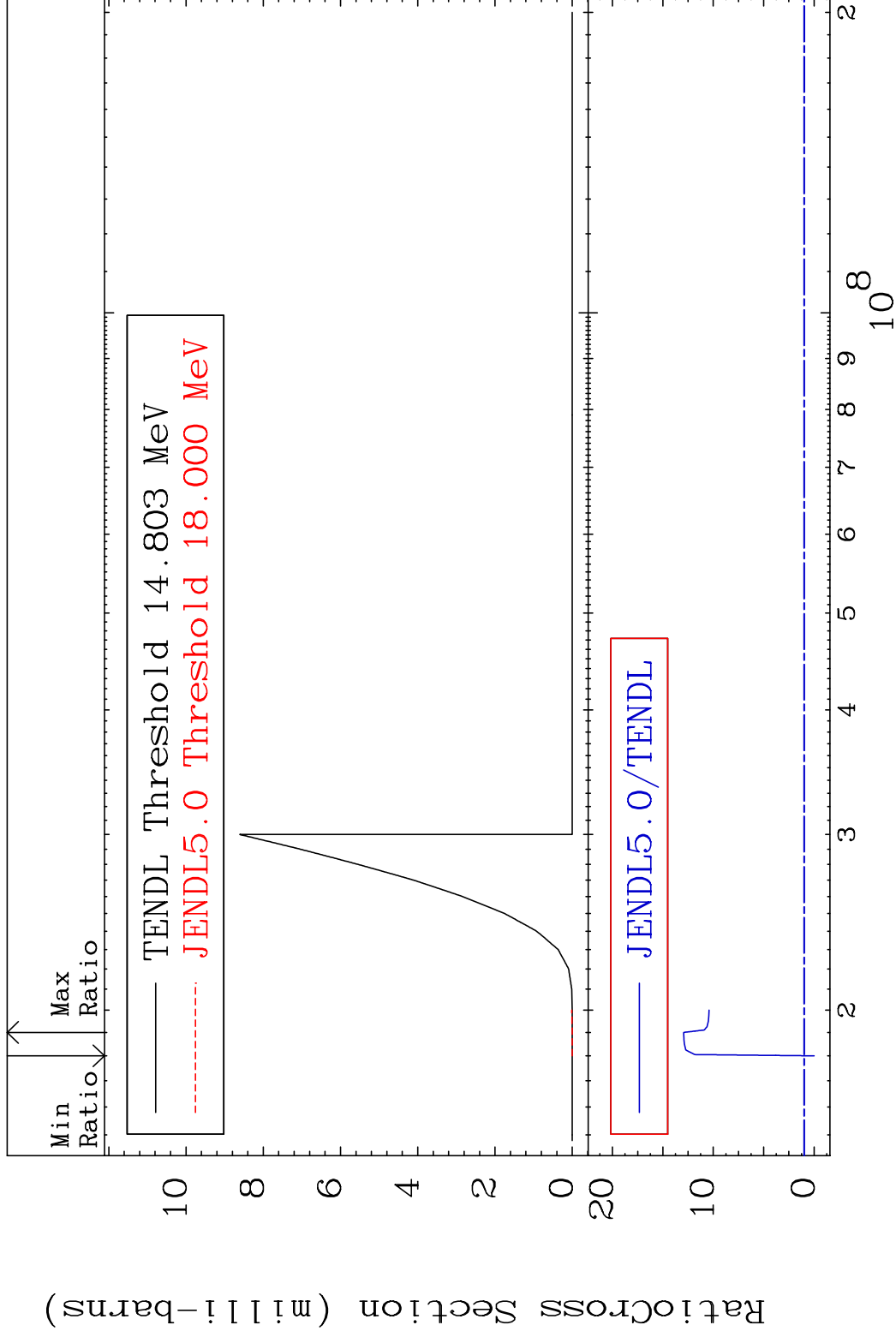
58-Ce-140

MAT 5837

(n, n') d

58-Ce-140

Cross Section -100.0 To 1194. %

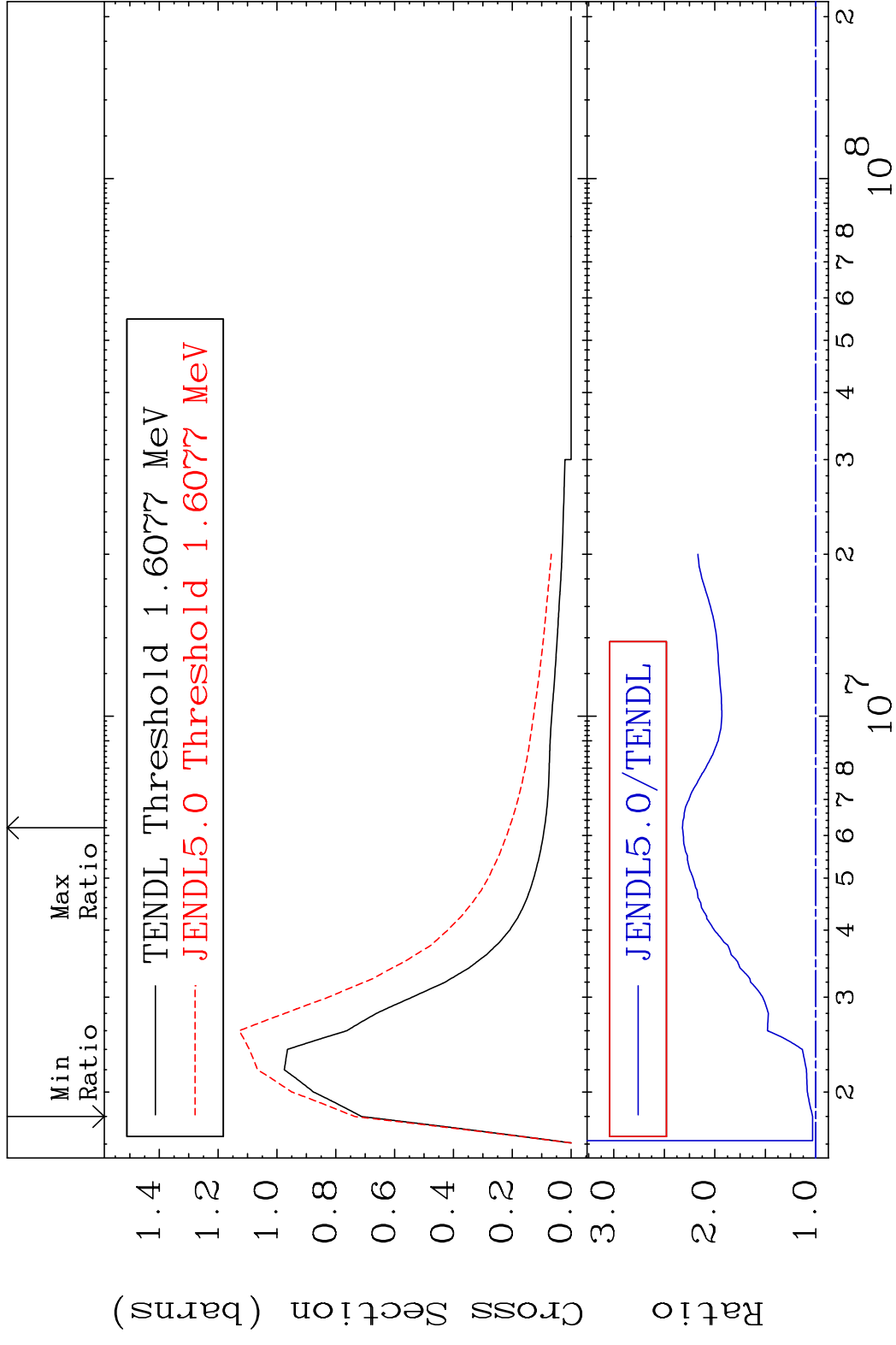


8

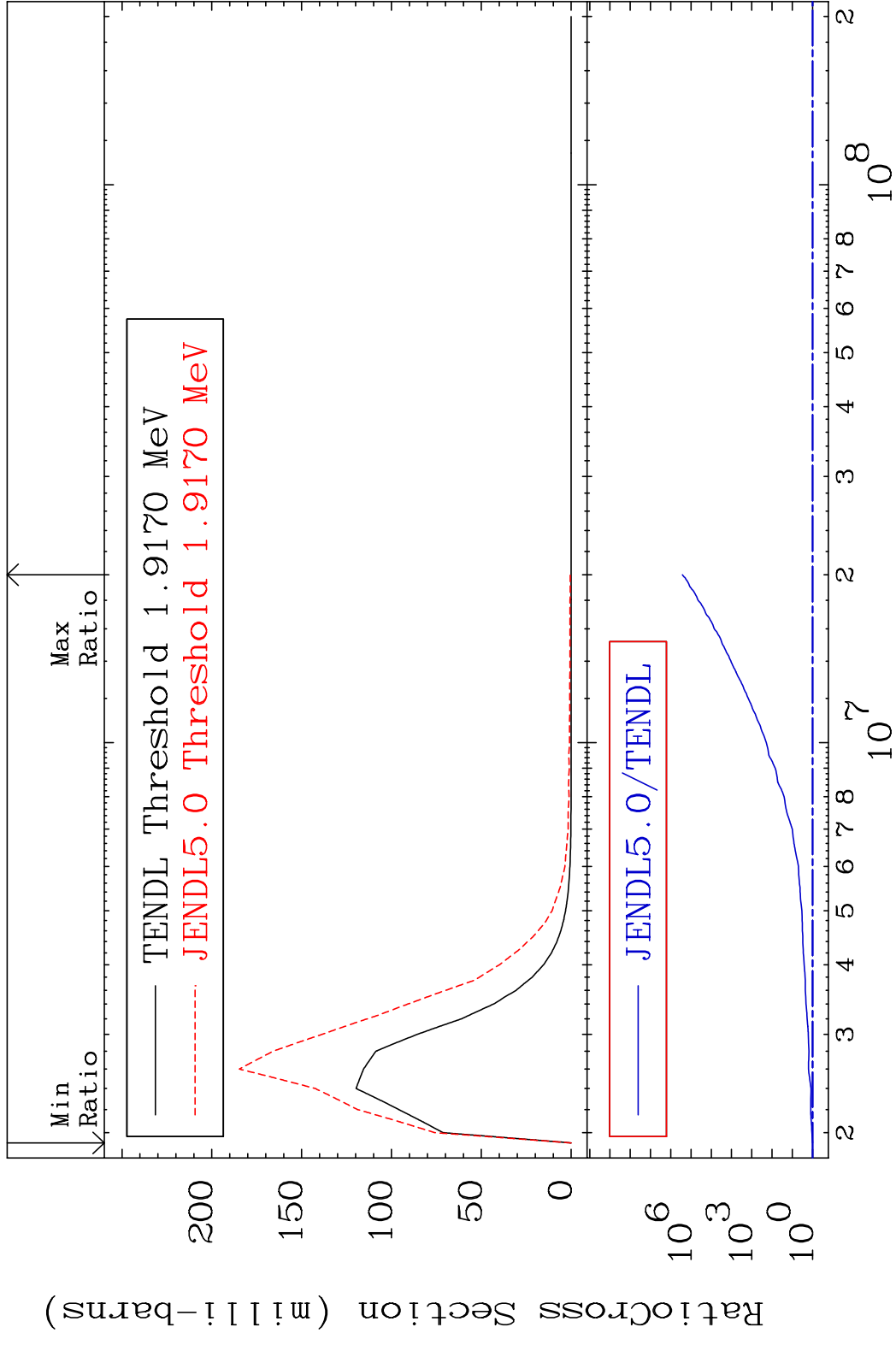
Incident Energy (eV)

58-Ce-140

MAT 5837 MT= 51 (n,n') Level 58-Ce-140
 Cross Section 3.259 To 132.1 %

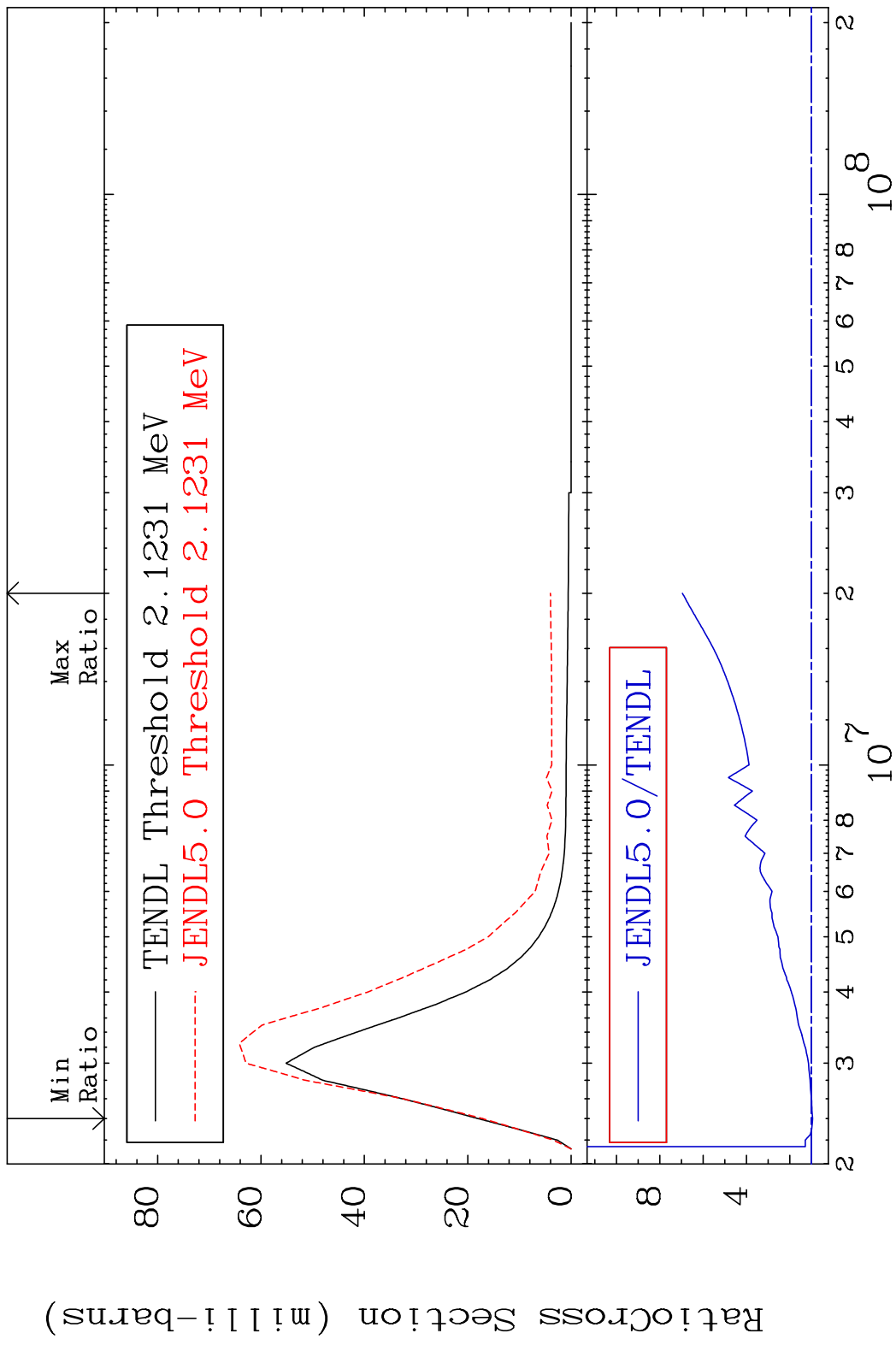


MAT 5837 MT= 52 (n, n') Level 58-Ce-140
 Cross Section 0.000 To 9999. %



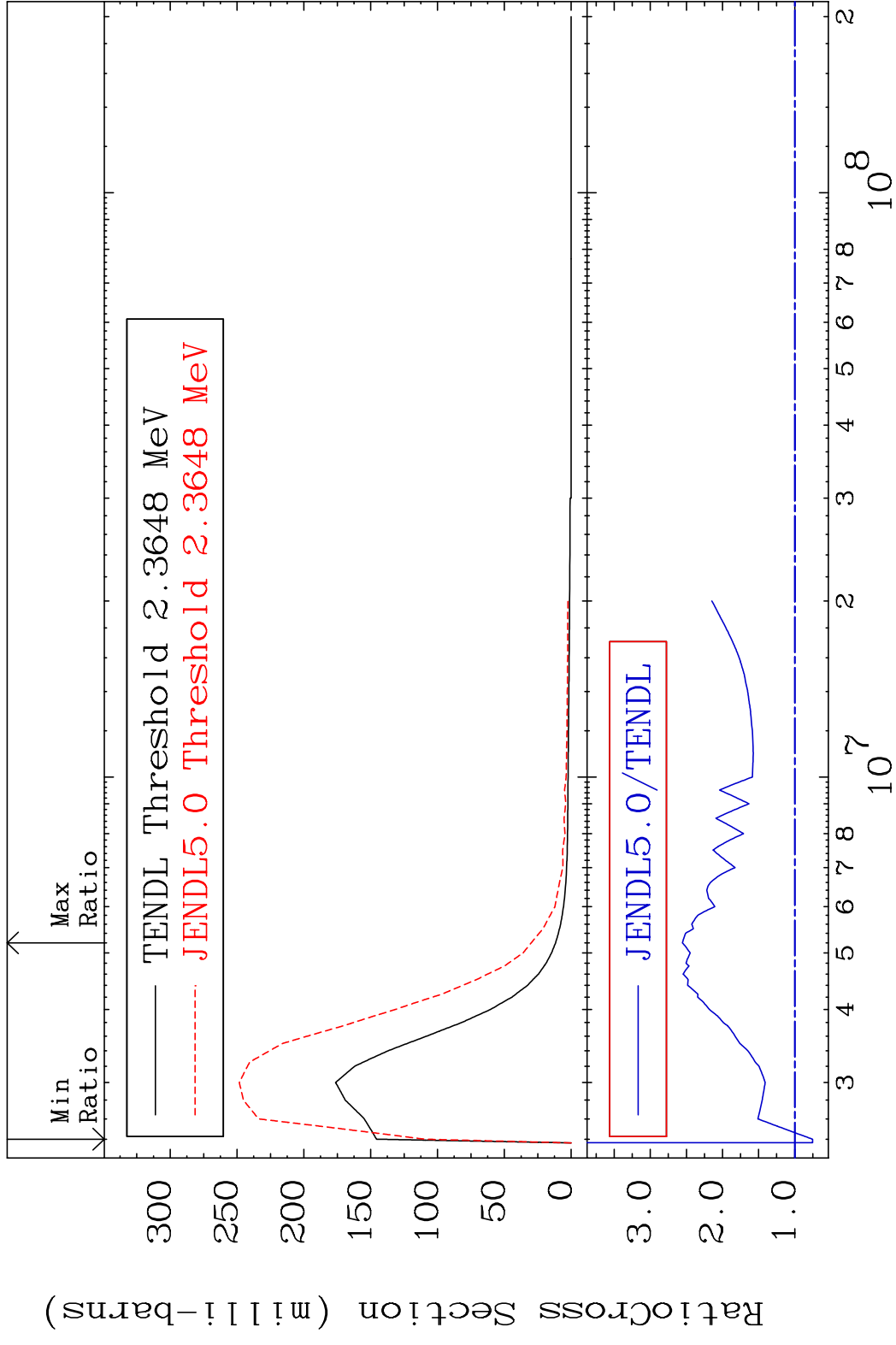
10 Incident Energy (eV) 58-Ce-140

MAT 5837 MT= 54 (n, n') Level 58-Ce-140
 Cross Section -4.797 To 596.3 %

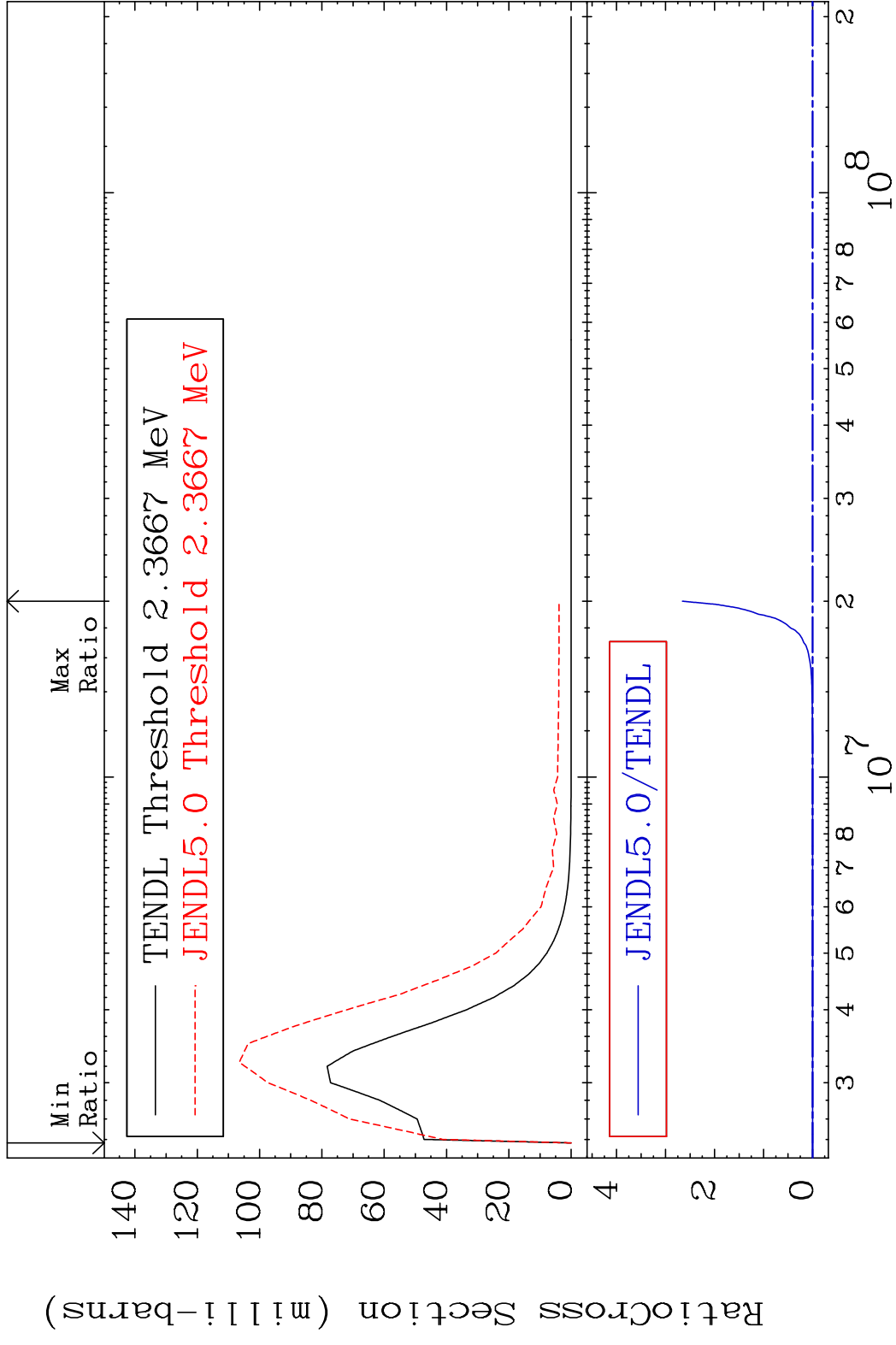


12 58-Ce-140

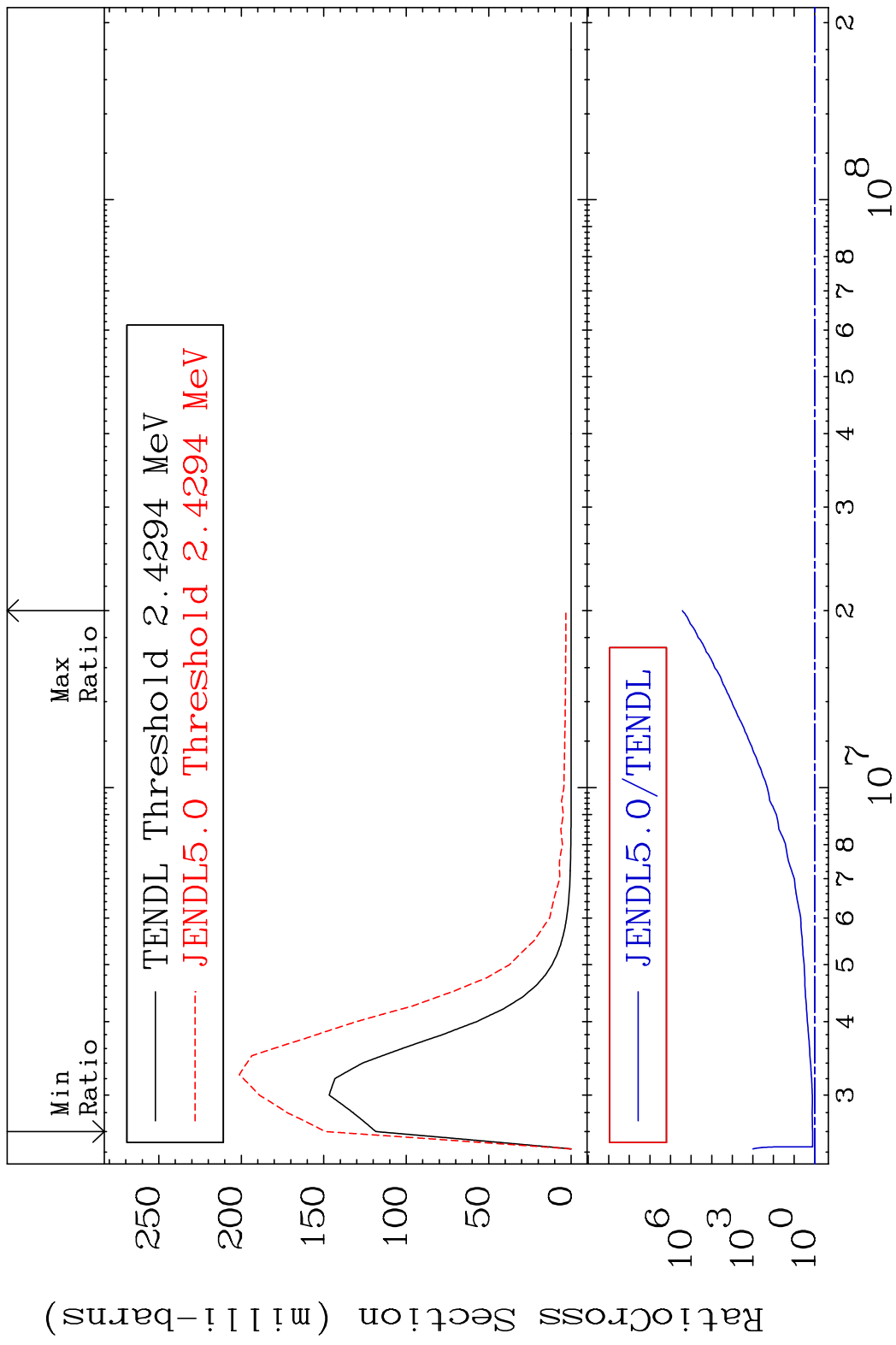
MAT 5837 MT= 55 (n,n') Level 58-Ce-140
 Cross Section -24.67 To 155.6 %



MAT 5837 MT= 56 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 9999. %

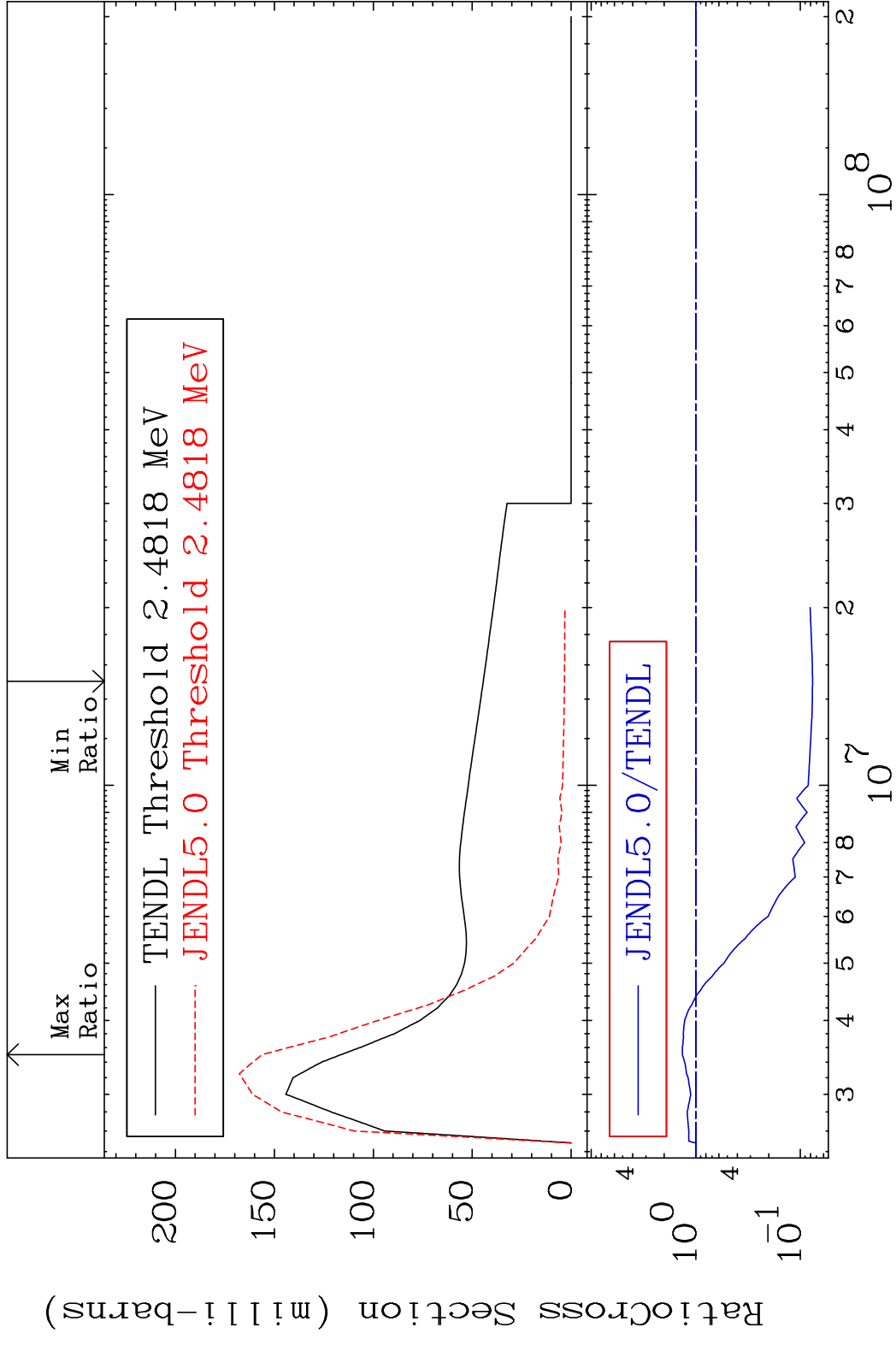


MAT 5837 MT= 57 (n,n') Level 58-Ce-140
 Cross Section 25.80 To 9999. %

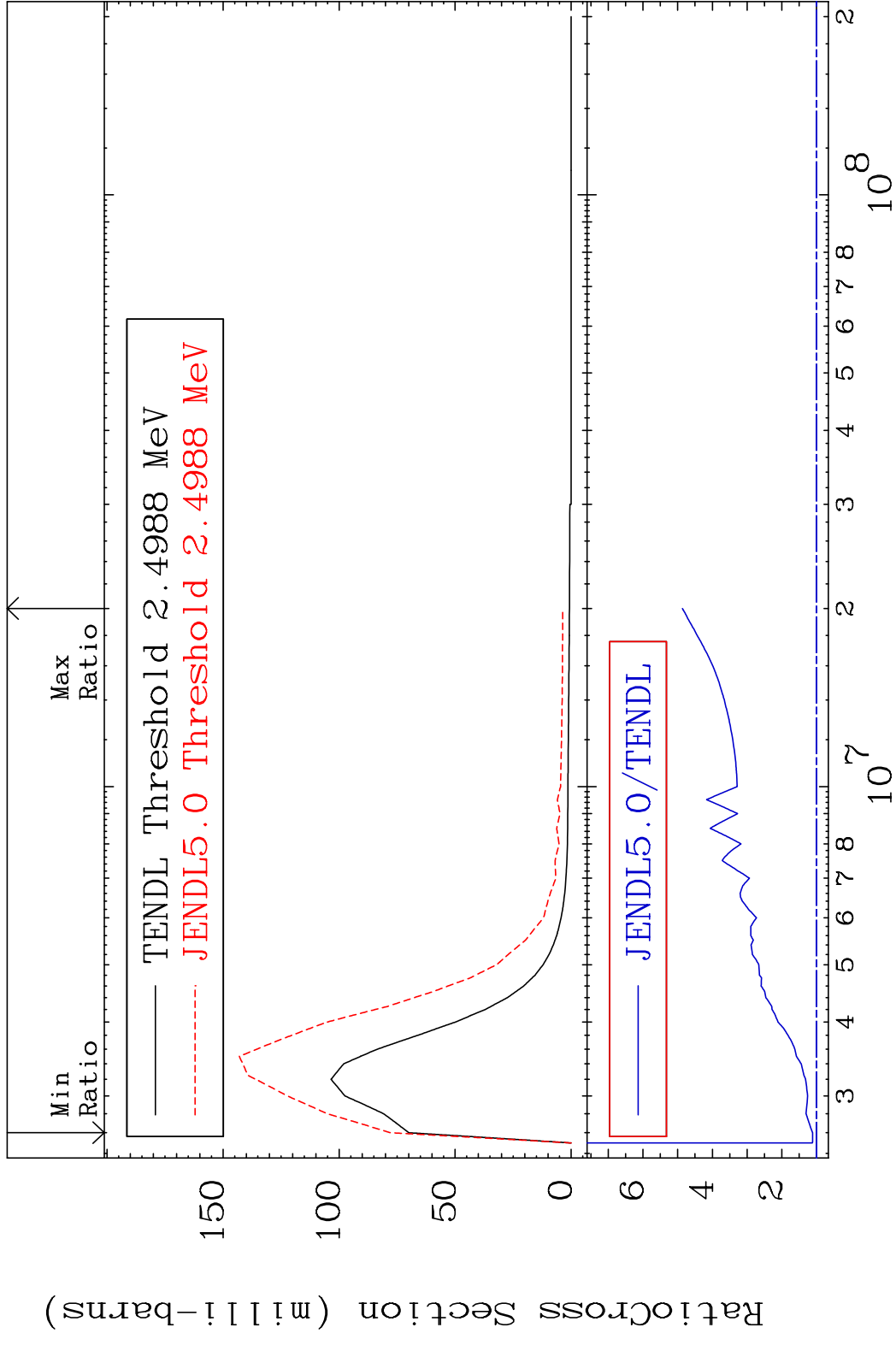


15 Incident Energy (eV) 58-Ce-140

MAT 5837 MT= 58 (n, n') Level 58-Ce-140
 Cross Section -92.36 To 34.28 %



MAT 5837 MT= 59 (n, n') Level 58-Ce-140
 Cross Section 11.39 To 386.6 %

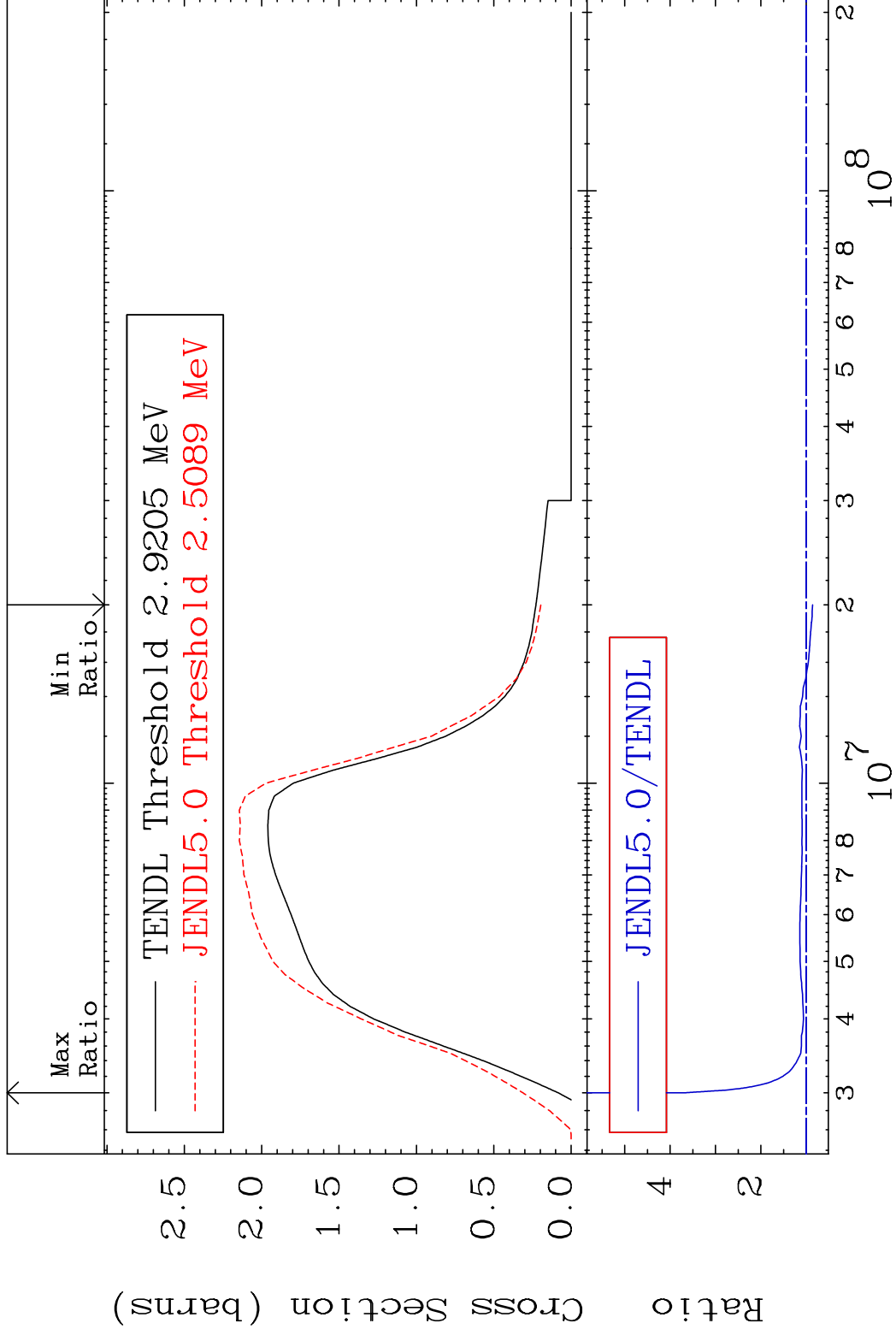


MAT 5837

(n, n') Continuum

58-Ce-140

Cross Section -13.88 To 273.0 %



18

Incident Energy (eV)

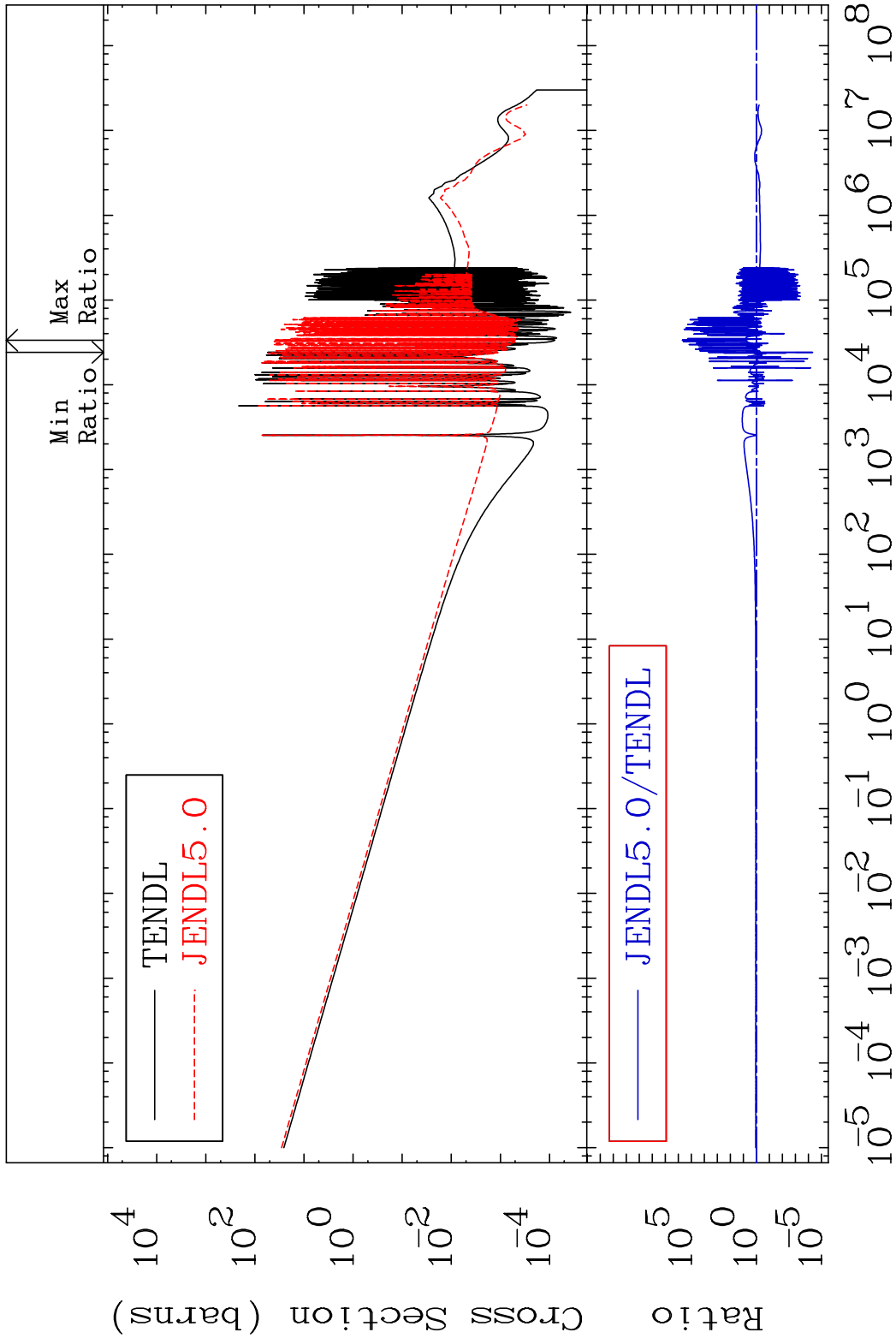
58-Ce-140

MAT 5837

(n, γ)

58-Ce-140

Cross Section -100.0 To 9999. %

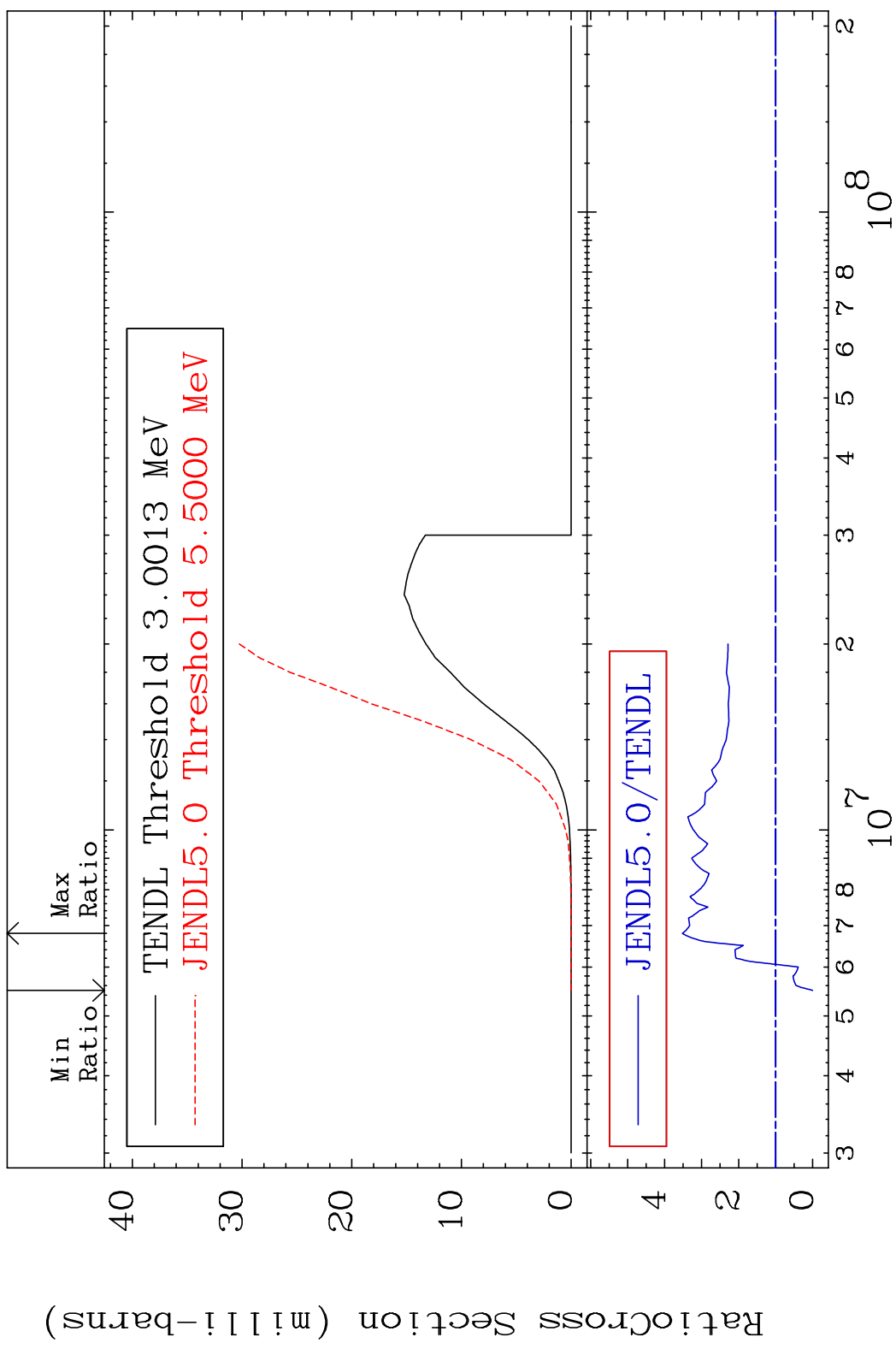


MAT 5837

(n,p)

58-Ce-140

Cross Section -100.0 To 252.2 %

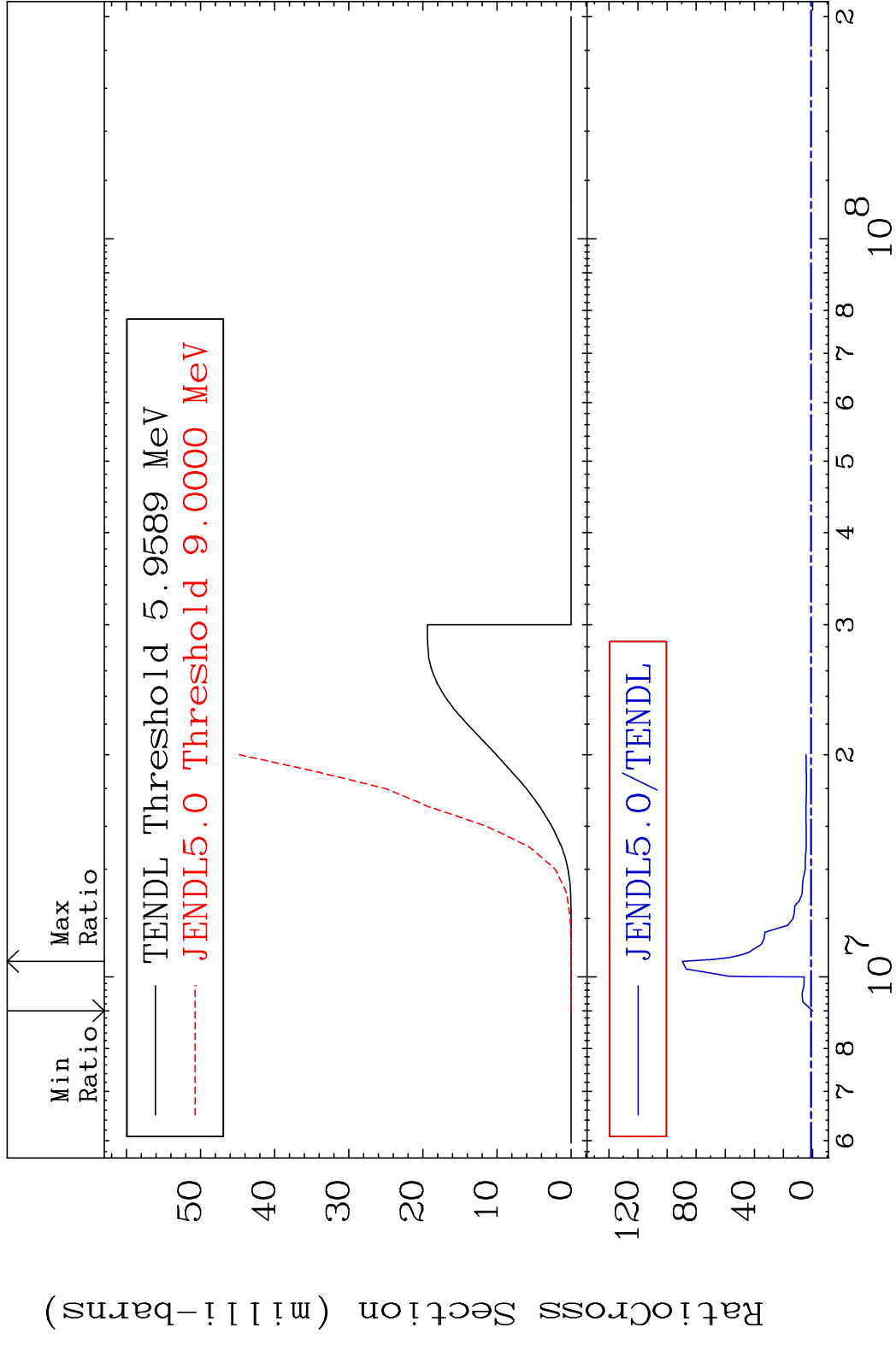


20

Incident Energy (eV)

58-Ce-140

MAT 5837 (n,d) 58-Ce-140
 Cross Section -100.0 To 8849. %

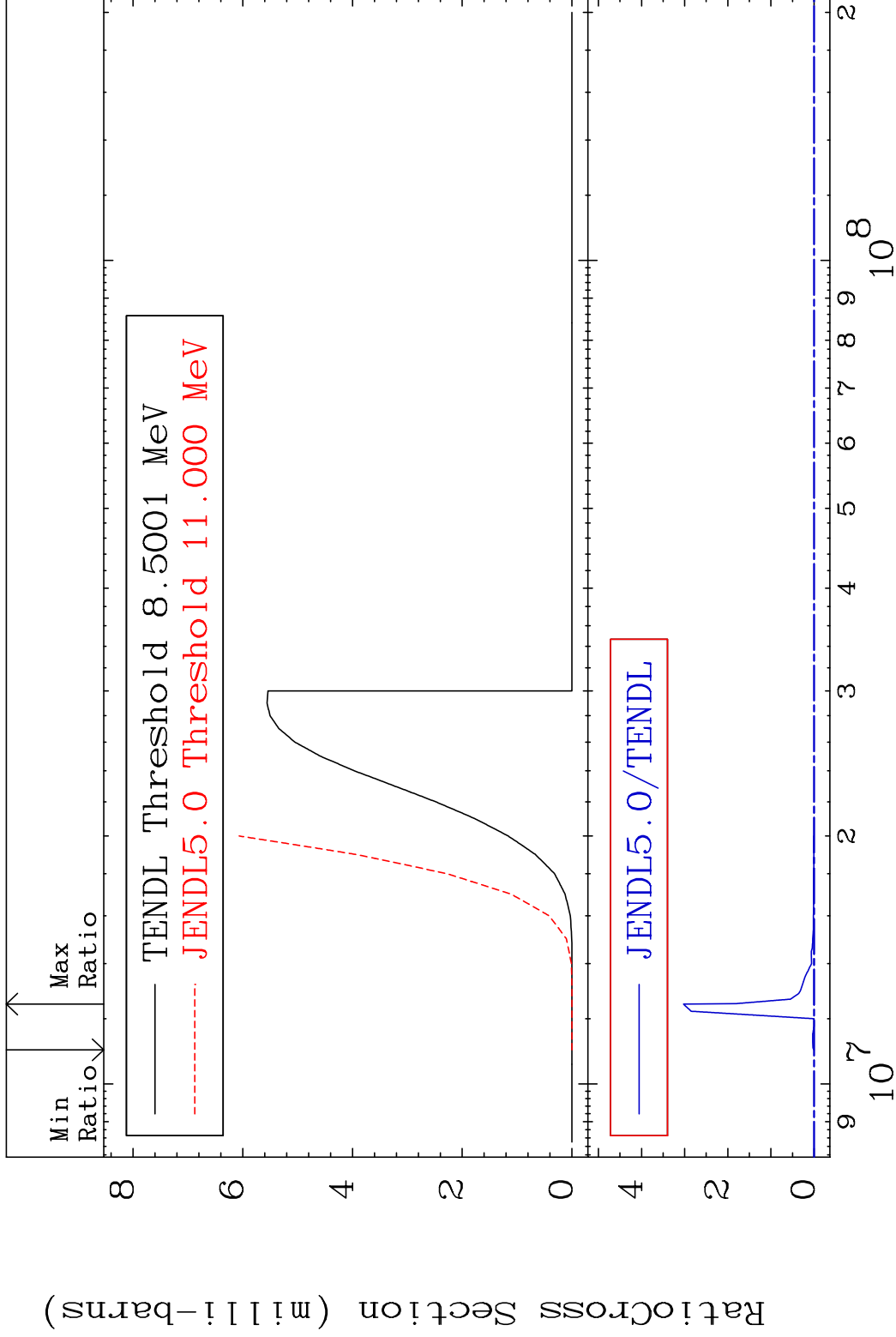


MAT 5837

(n, t)

58-Ce-140

Cross Section -100.0 To 9999. %



22

Incident Energy (eV)

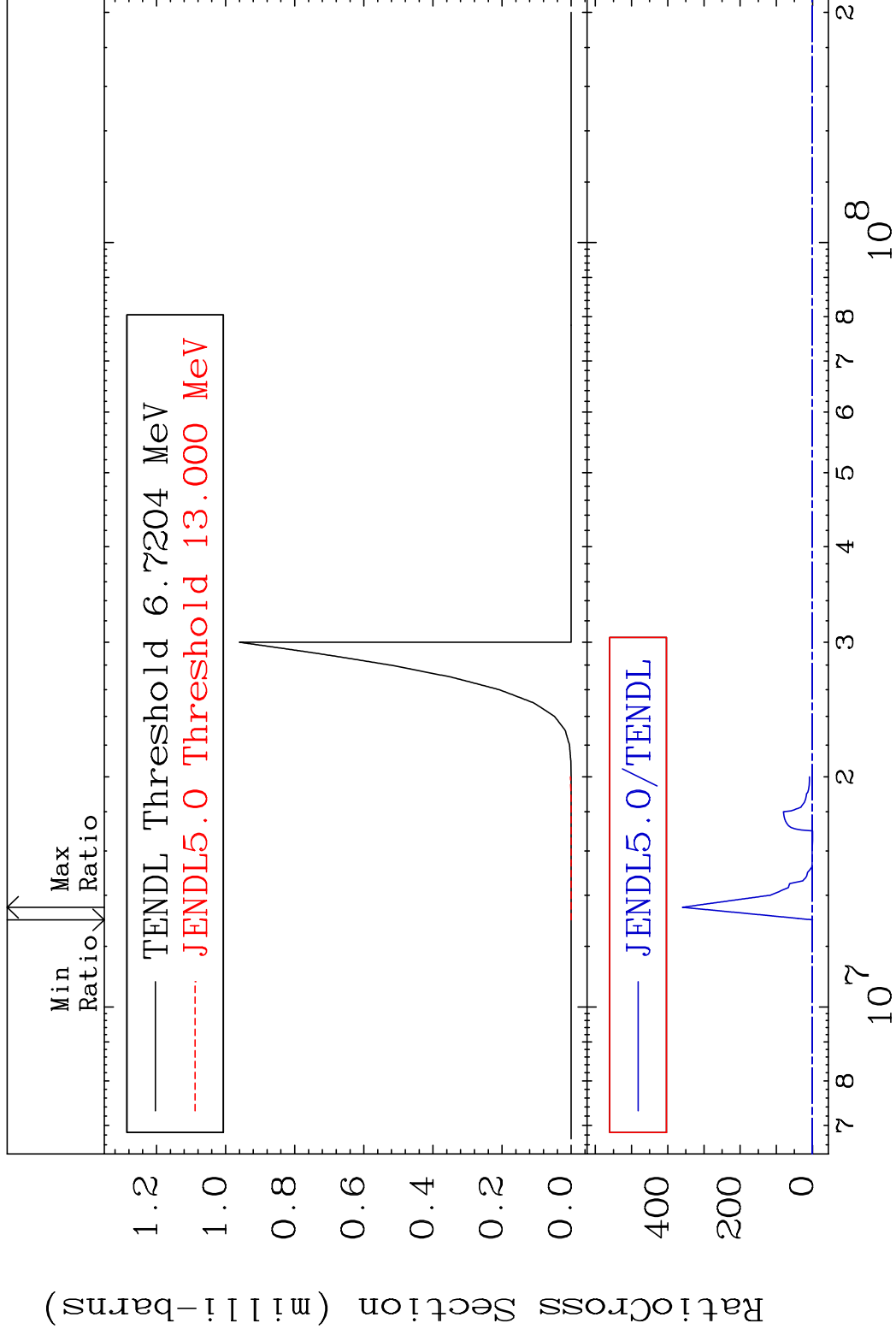
58-Ce-140

MAT 5837

(n, He-3)

58-Ce-140

Cross Section -100.0 To 9999. %

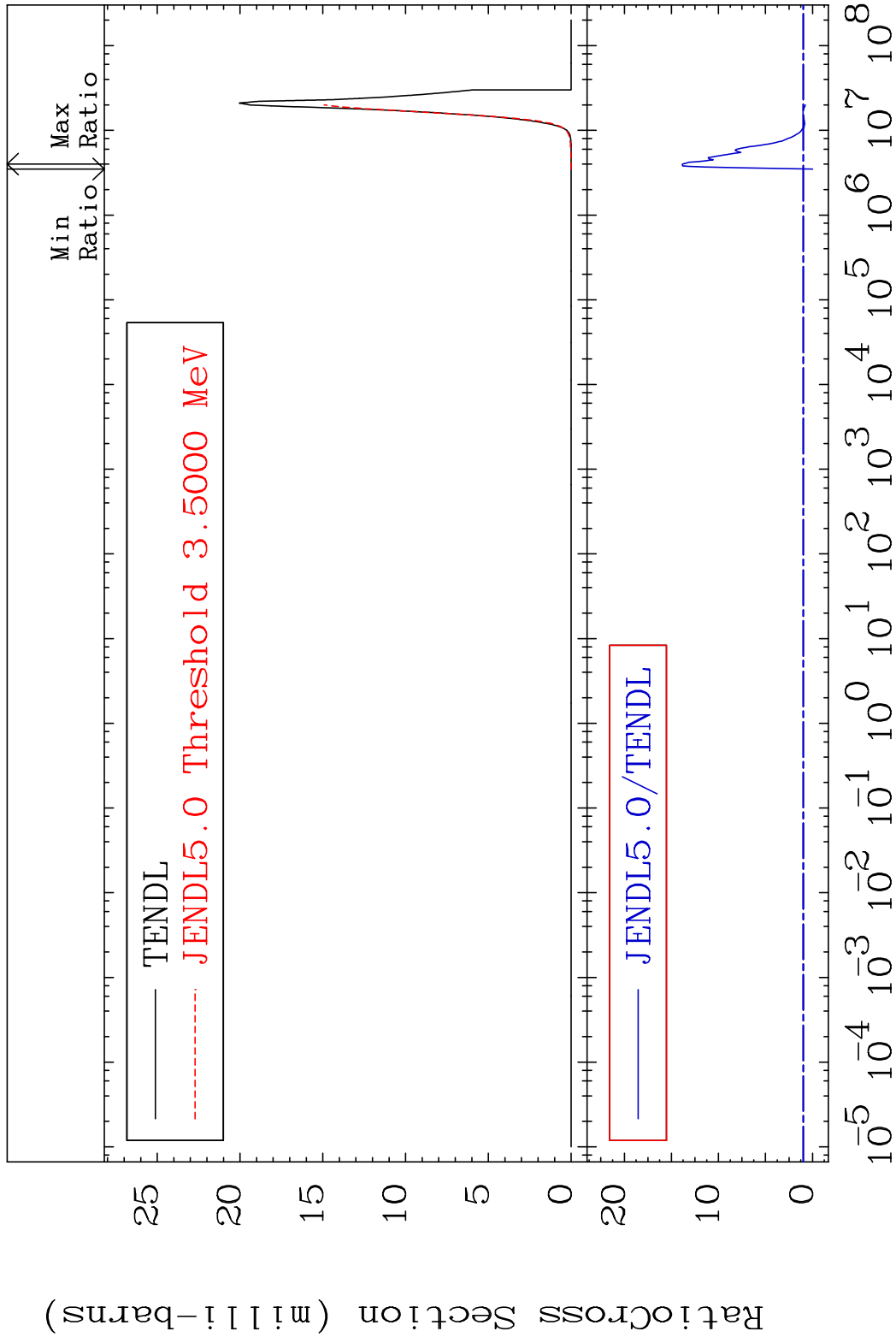


MAT 5837

(n, α)

58-Ce-140

Cross Section -100.0 To 1284. %



24

Incident Energy (eV)

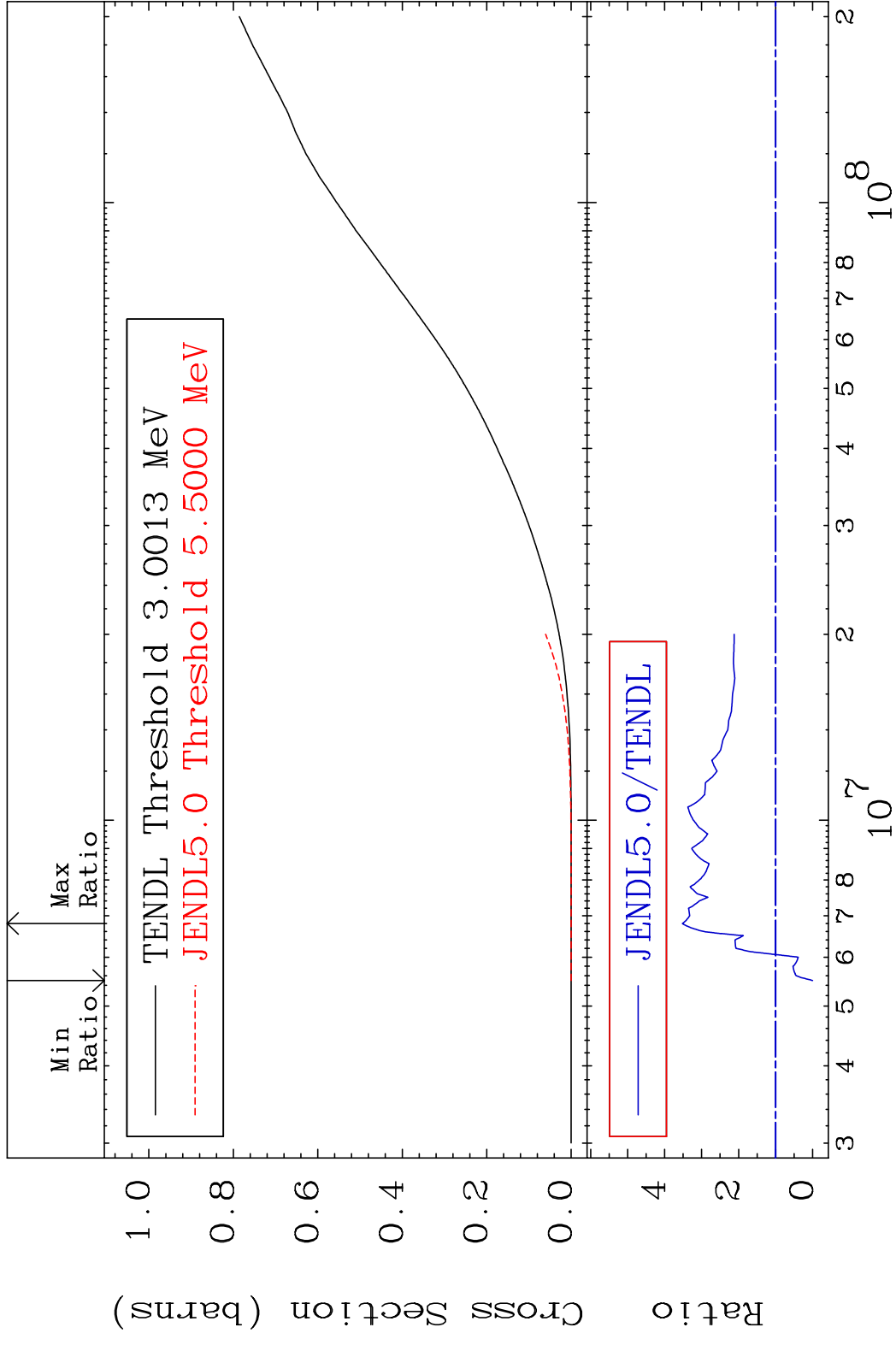
58-Ce-140

MAT 5837

Hydrogen Production

58-Ce-140

Cross Section -100.0 To 252.2 %

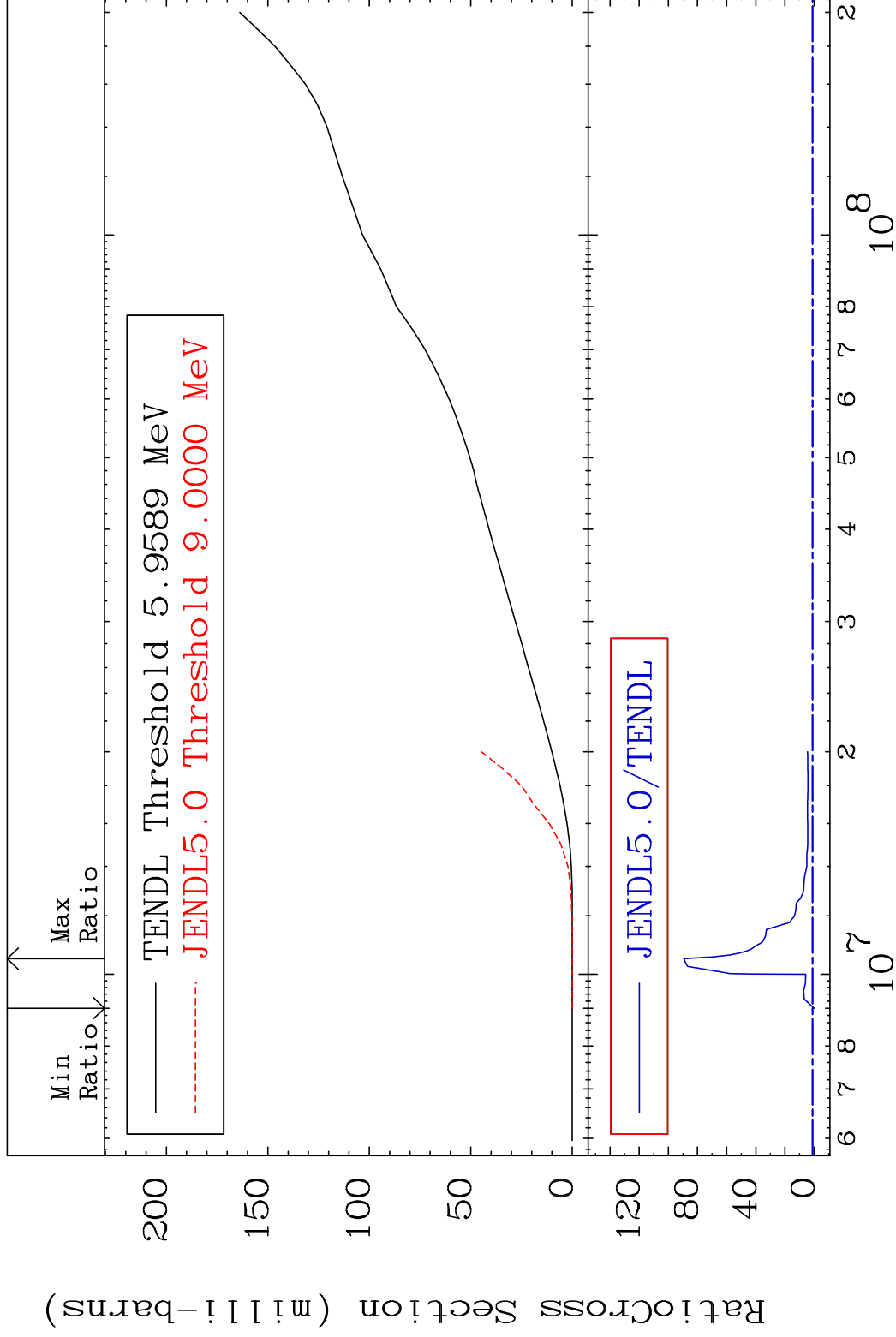


MAT 5837

Deuterium Production

58-Ce-140

Cross Section -100.0 To 8849. %



26

Incident Energy (eV)

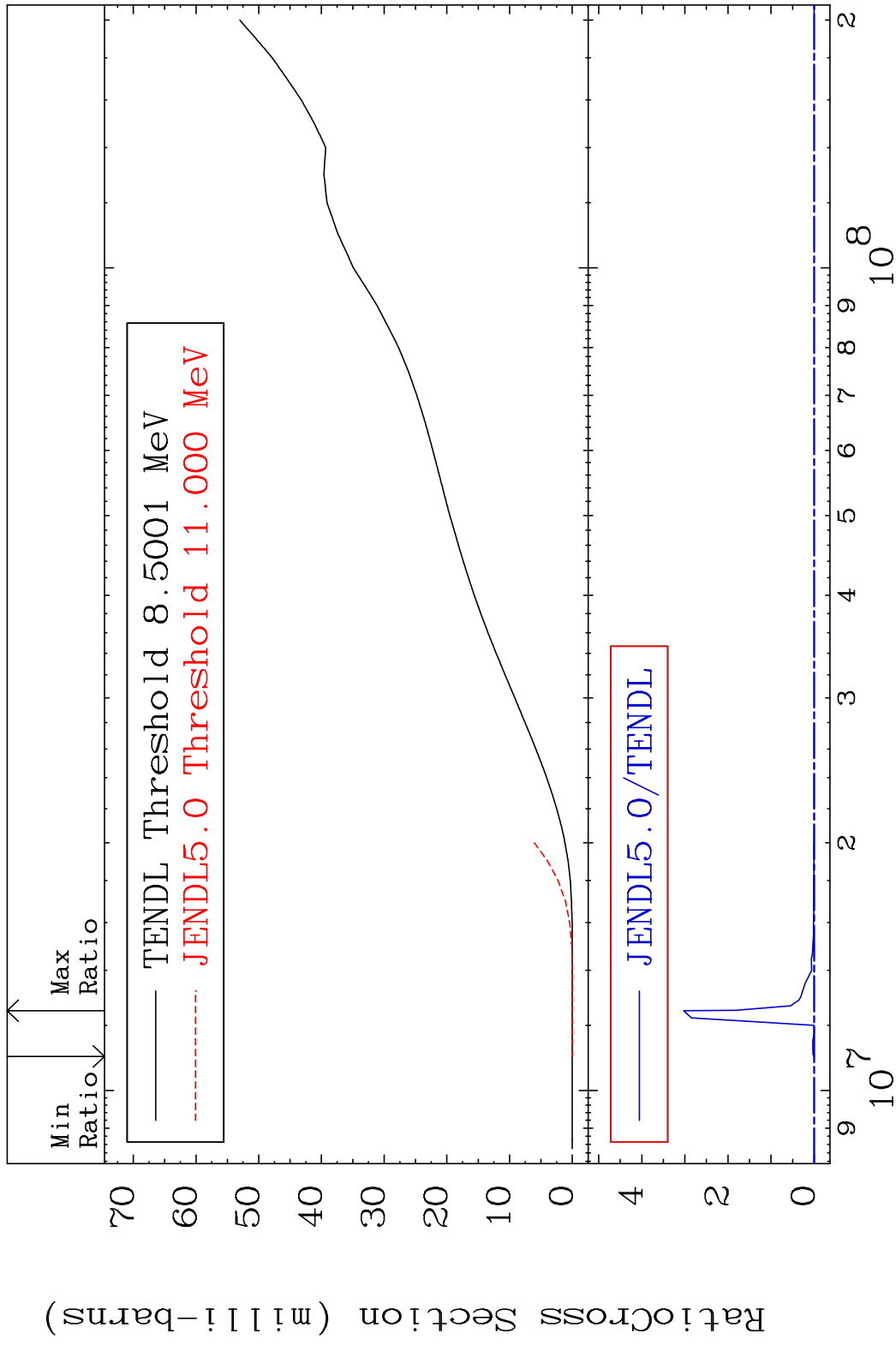
58-Ce-140

MAT 5837

Tritium Production

58-Ce-140

Cross Section -100.0 To 9999. %



27

Incident Energy (eV)

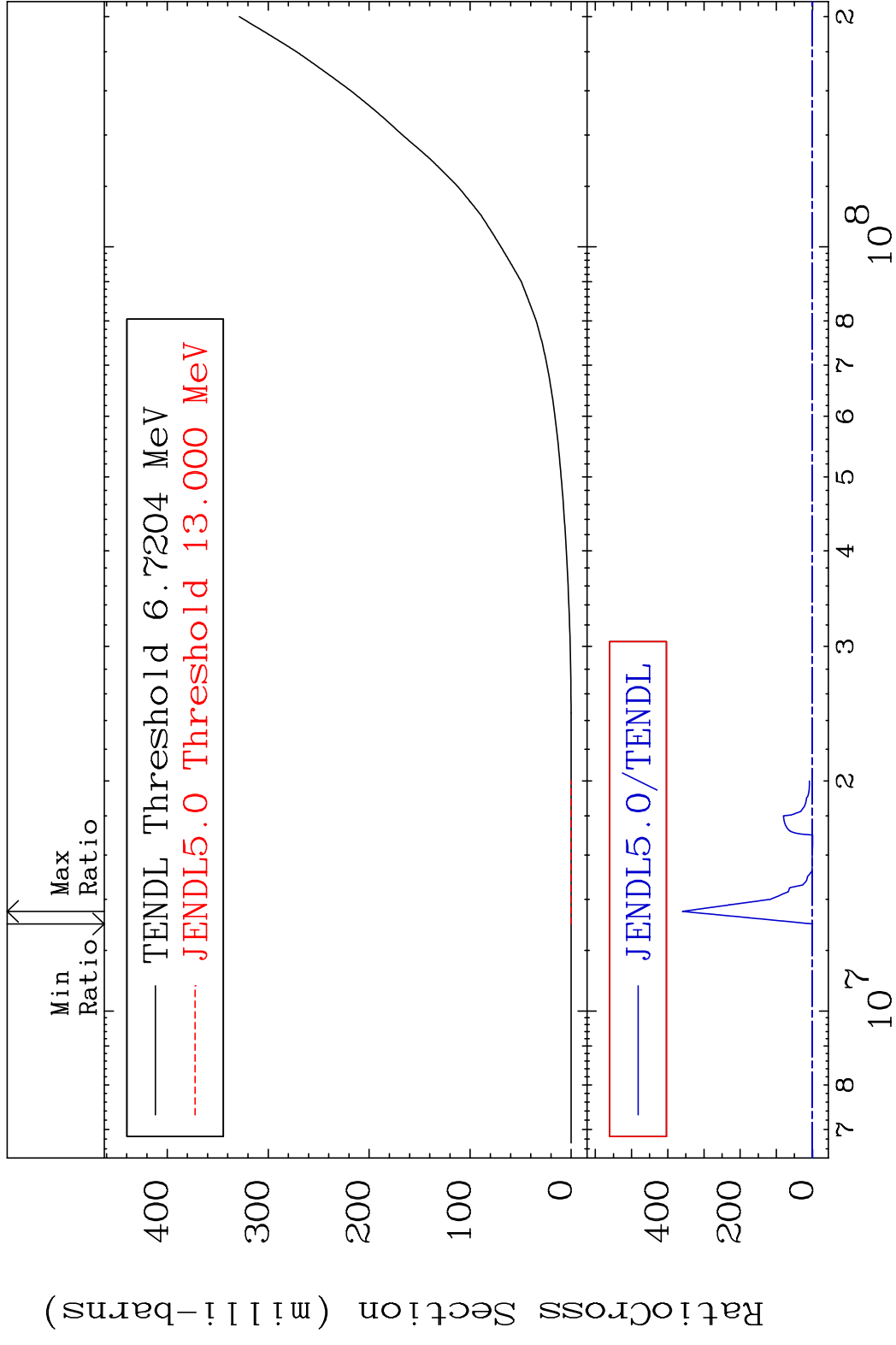
58-Ce-140

MAT 5837

He-3 Production

58-Ce-140

Cross Section -100.0 To 9999. %



28

Incident Energy (eV)

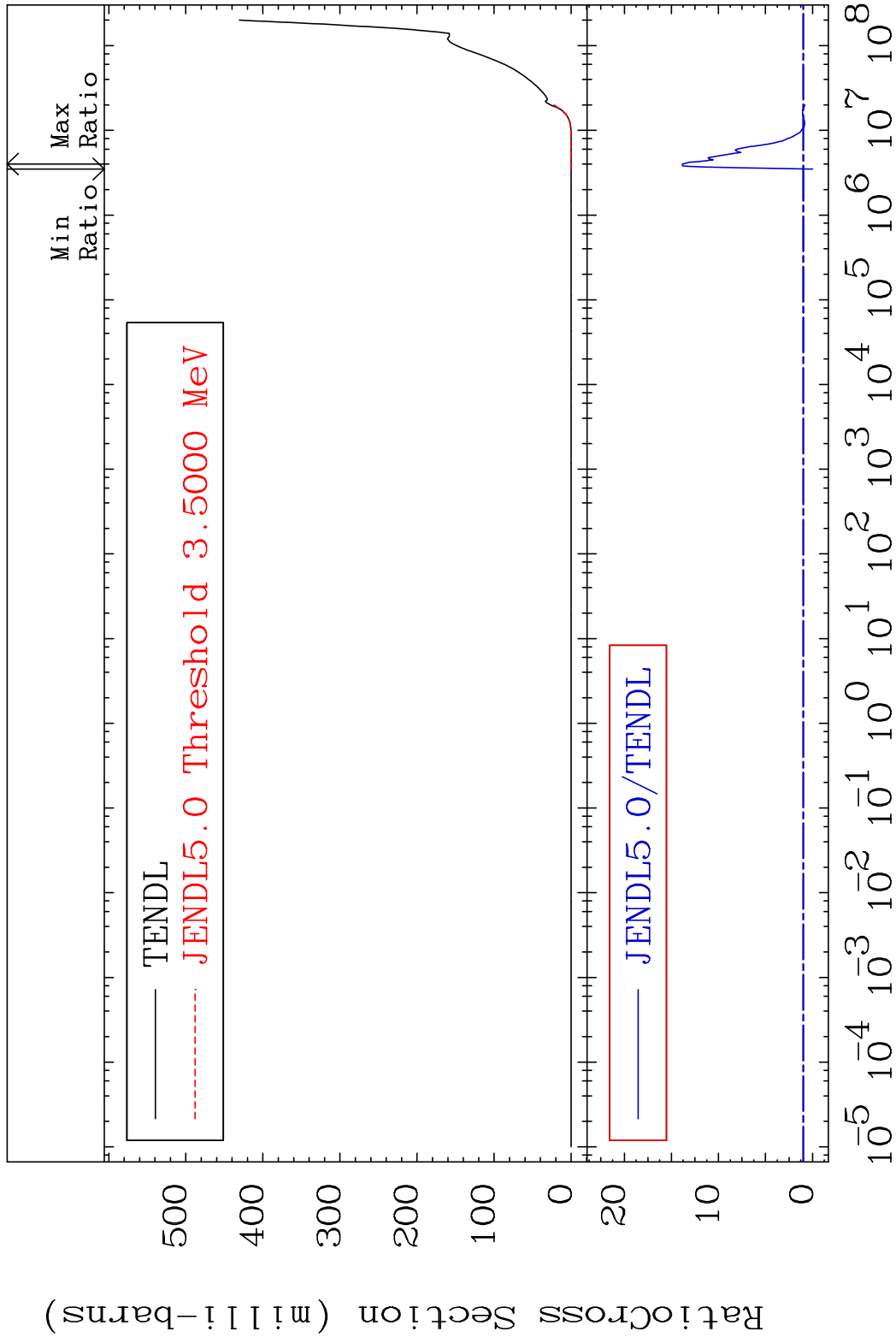
58-Ce-140

MAT 5837

He-4 Production

58-Ce-140

Cross Section -100.0 To 1284. %



29

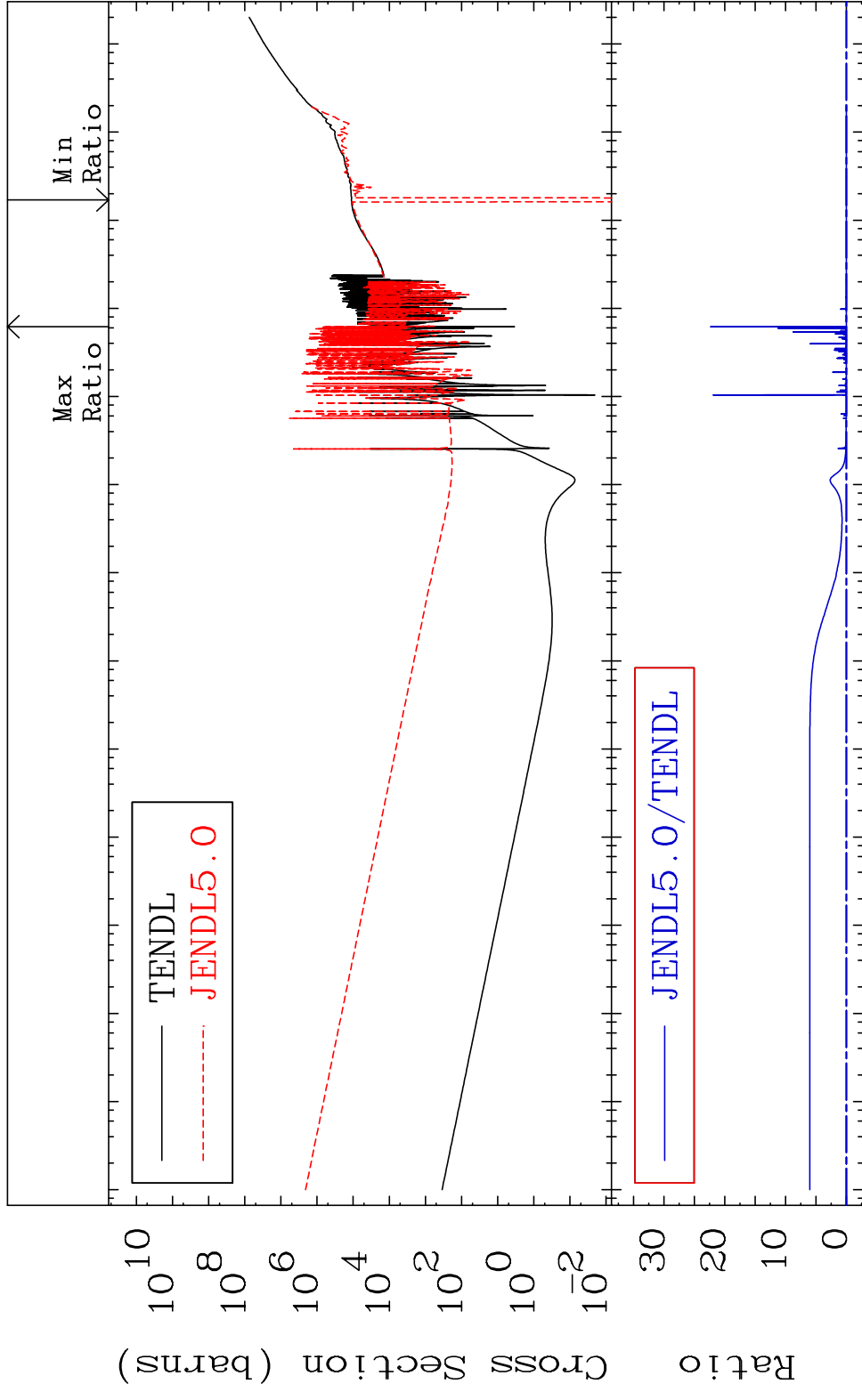
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma total (eV-barns) 58-Ce-140

Cross Section -699.3 To 9999. %



30

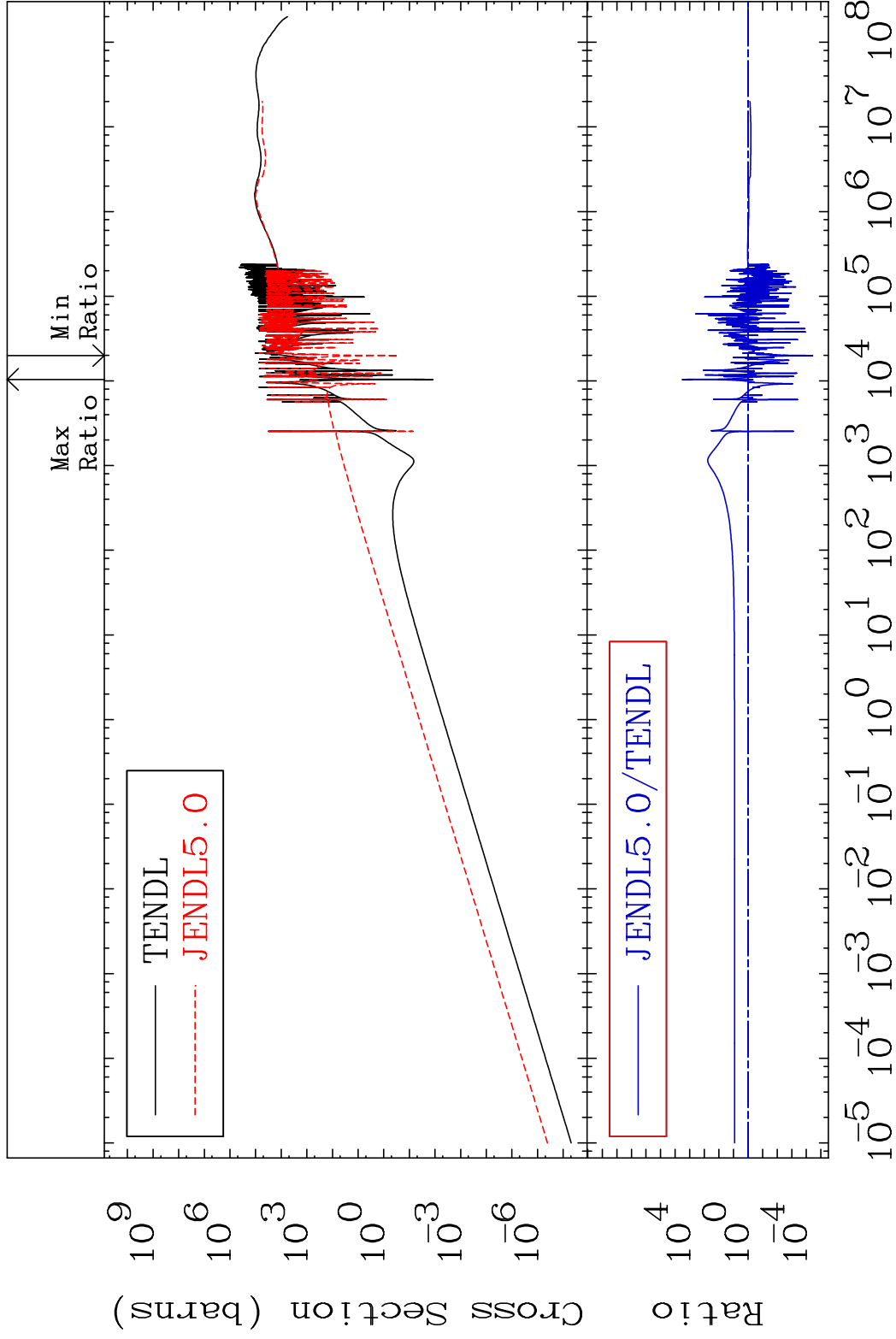
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma elastic
Cross Section

58-Ce-140
-100.0 To 9999. %

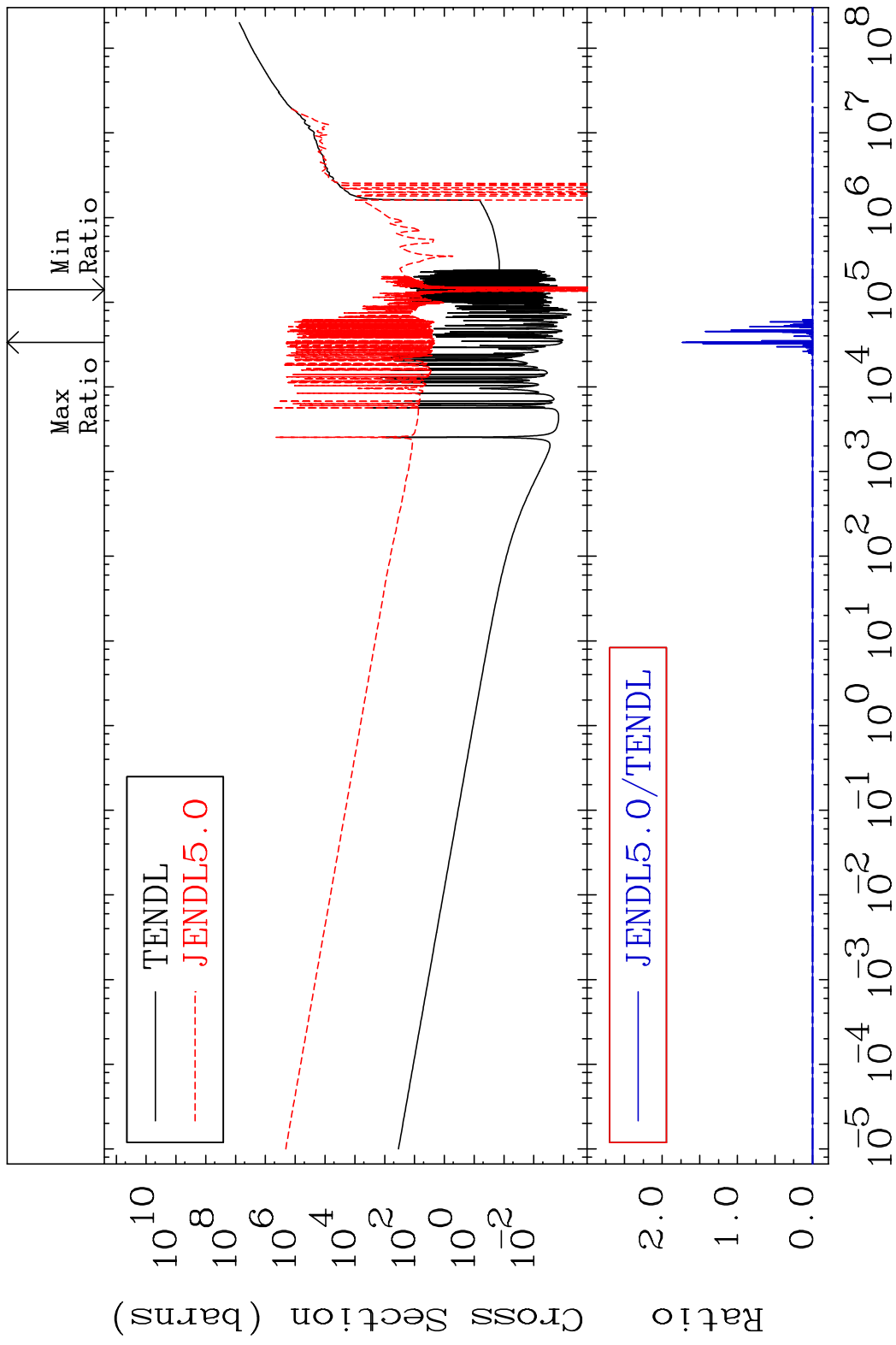


31

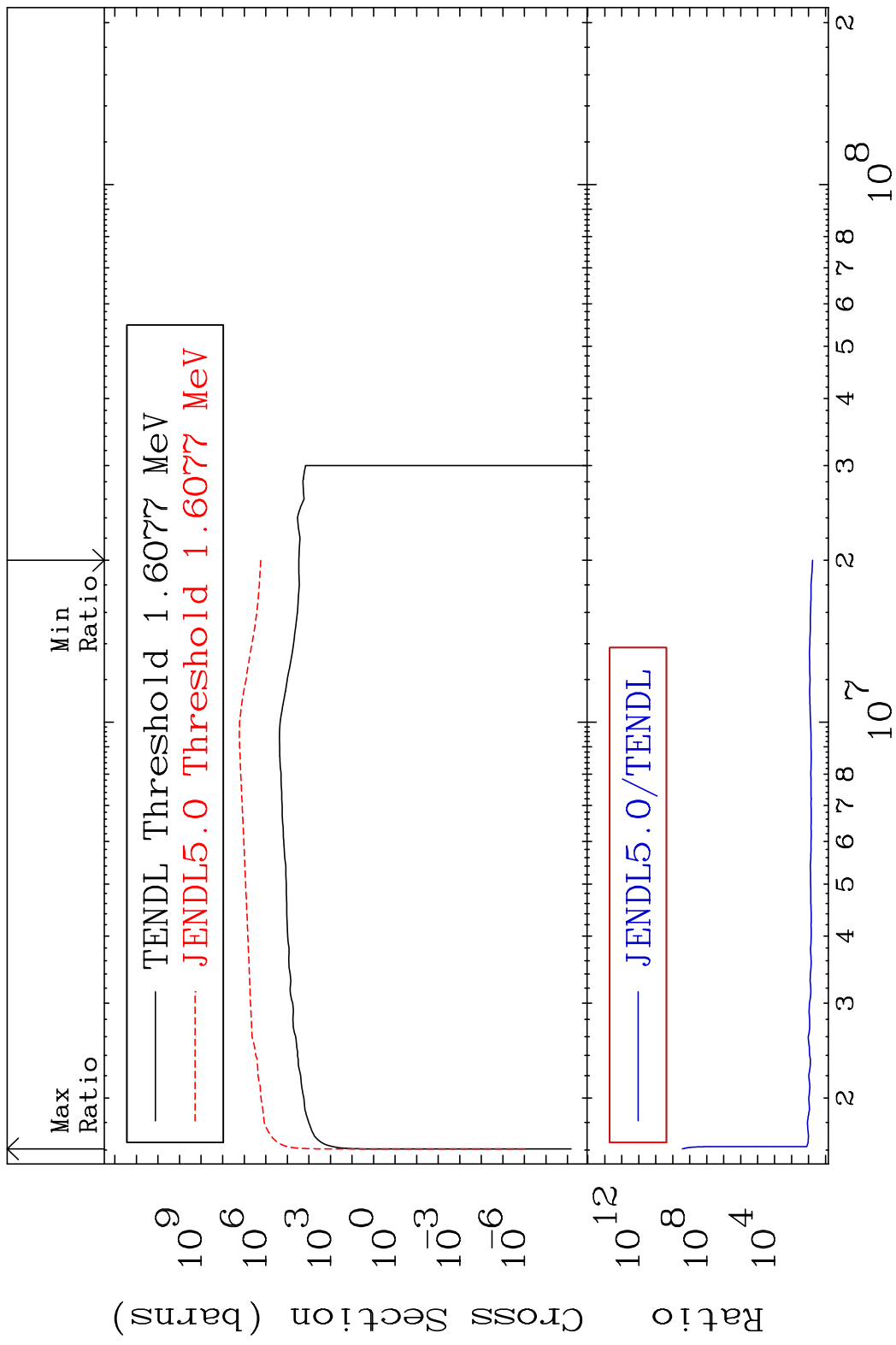
Incident Energy (eV)

58-Ce-140

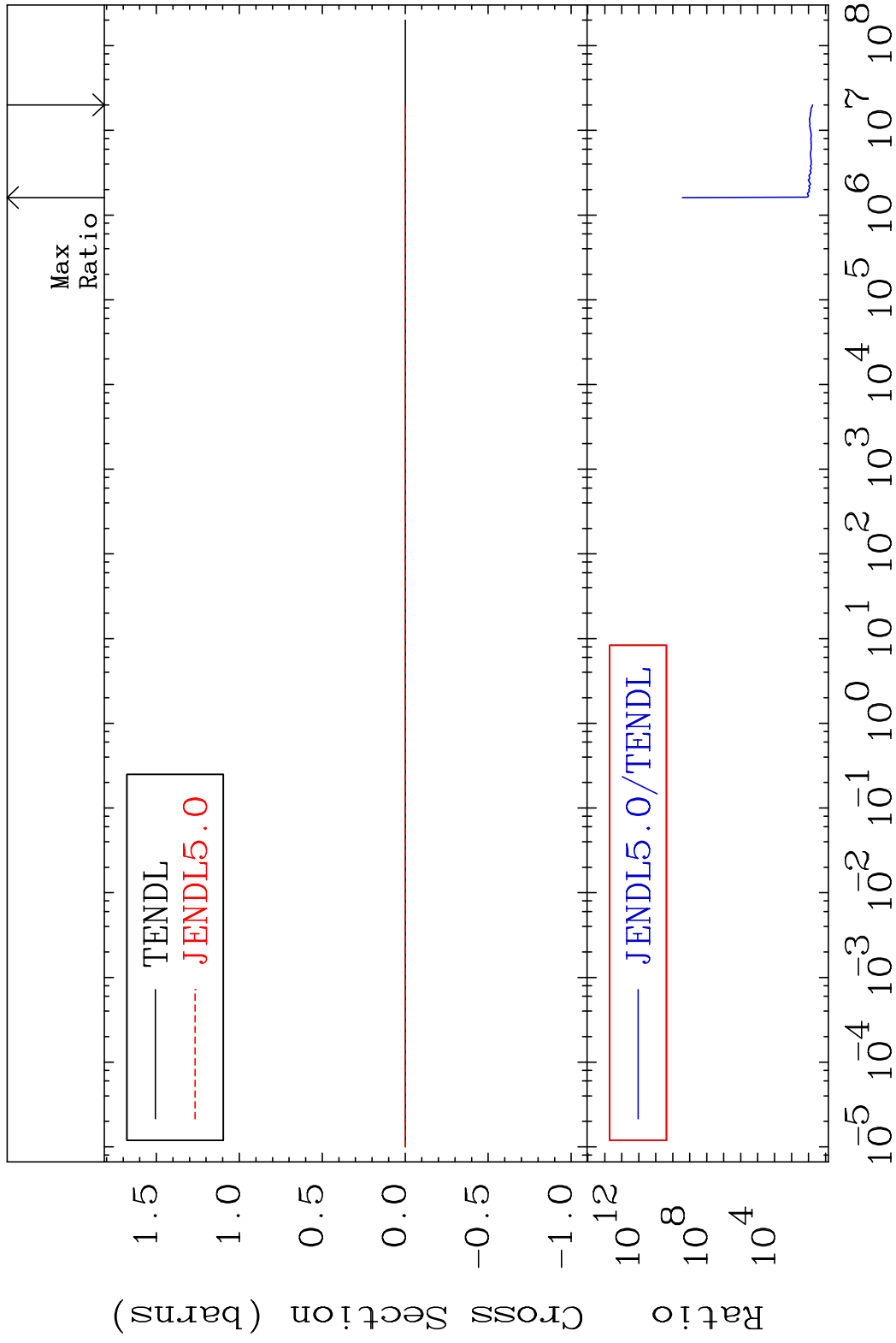
MAT 5837 Kerma non-elastic (all but mt2) 58-Ce-140
 Cross Section -9999. To 9999. %



MAT 5837 Kerma inelastic (mt51-91) 58-Ce-140
 Cross Section 5734. To 9999. %



MAT 5837 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-140
 Cross Section 5734. To 9999. %

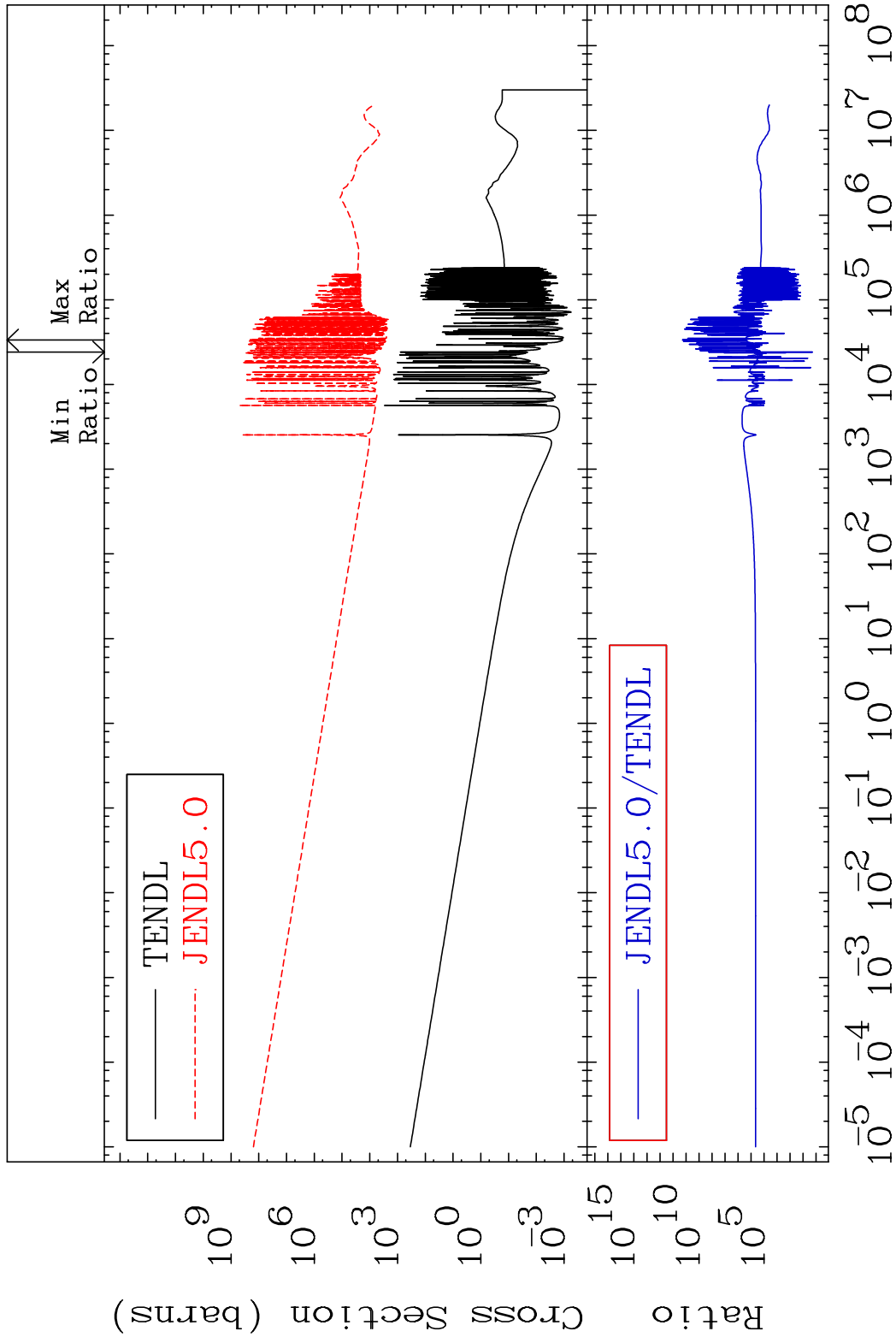


MAT 5837

Kerma capture (mt102)

58-Ce-140

Cross Section 1779. To 9999. %

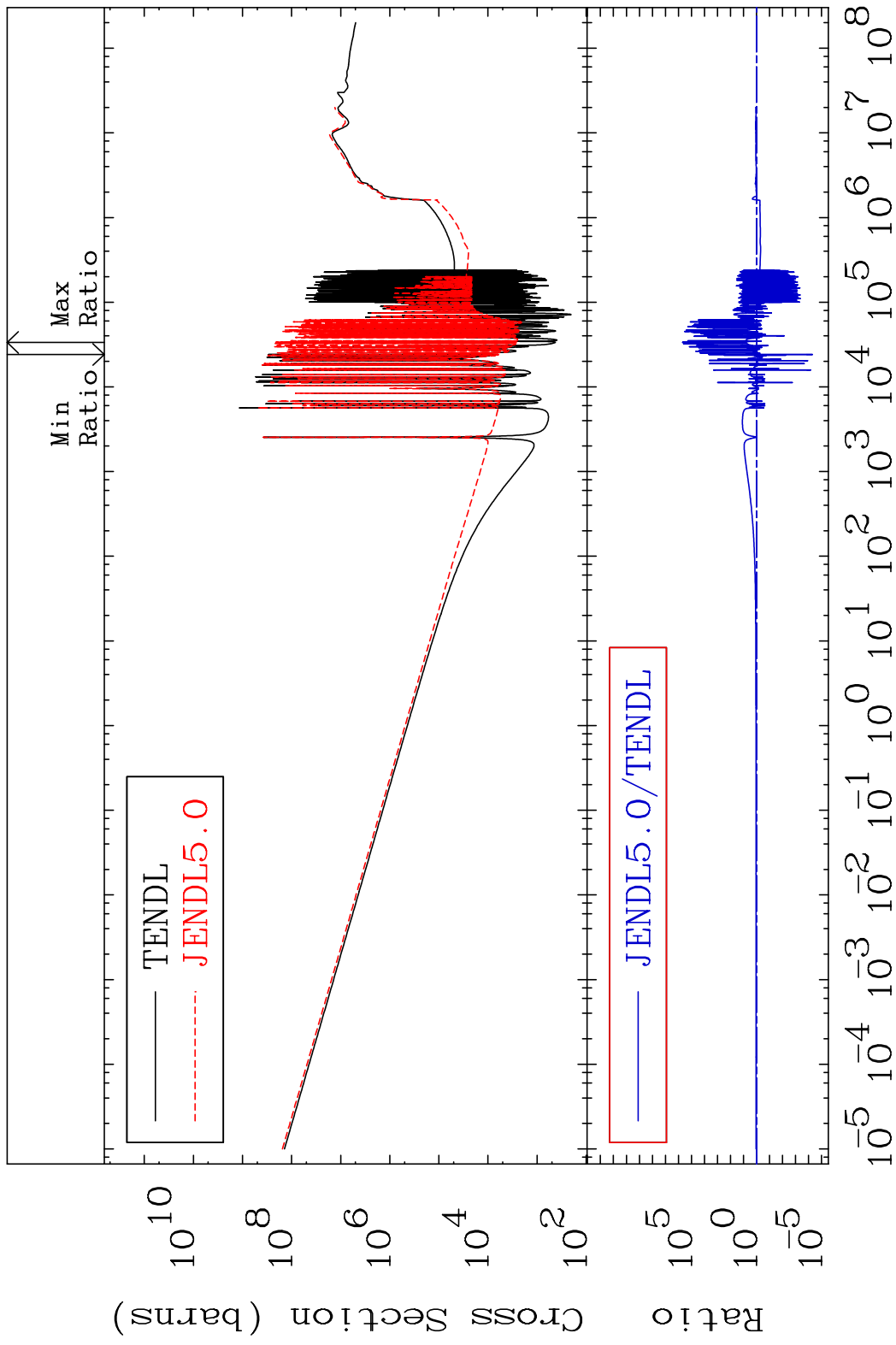


35

Incident Energy (eV)

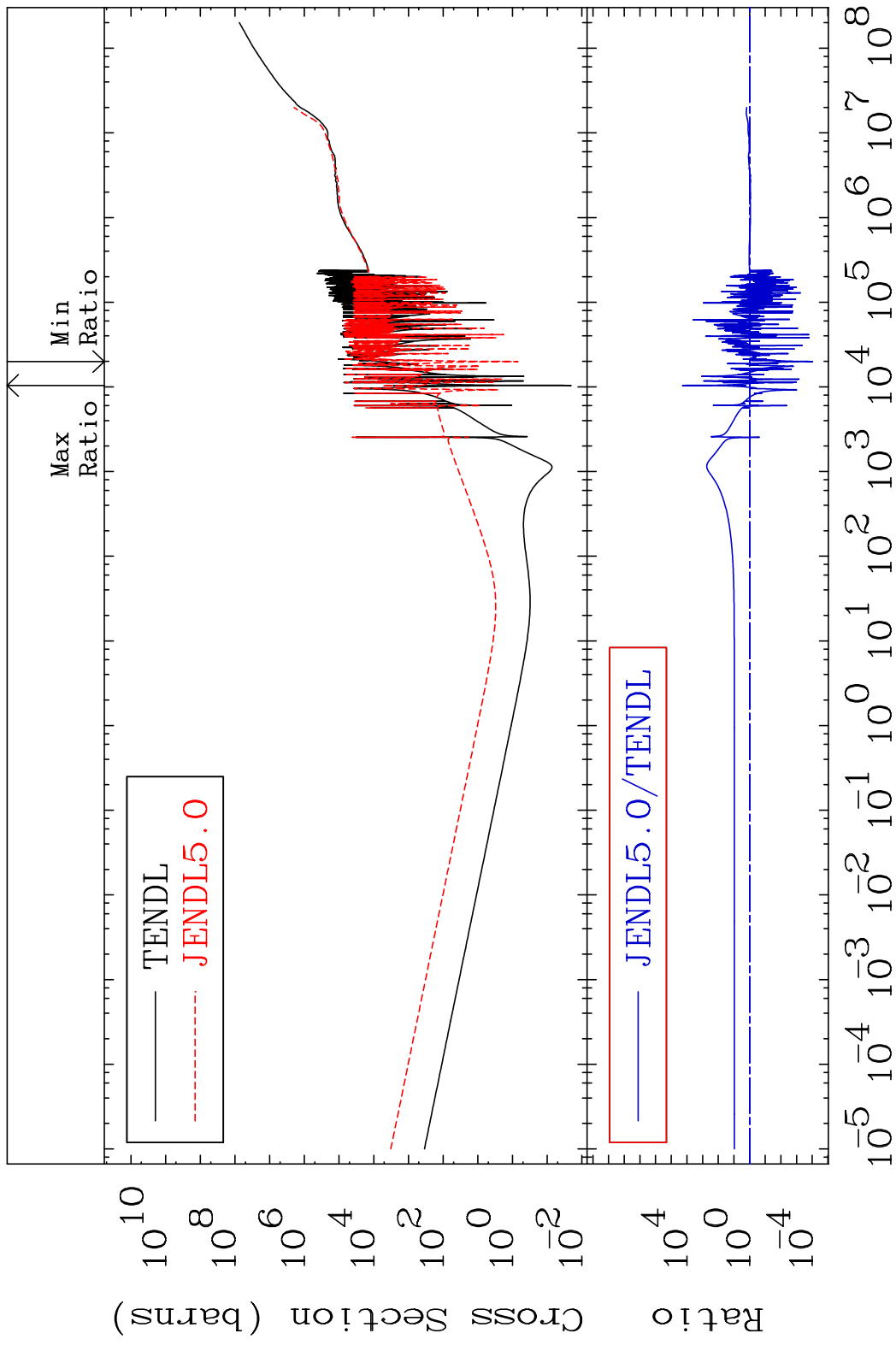
58-Ce-140

MAT 5837 Total photon (eV-barns) 58-Ce-140
 Cross Section -100.0 To 9999. %



36 Incident Energy (eV) 58-Ce-140

MAT 5837 Total kinematic kerma (high limit) 58-Ce-140
 Cross Section -99.99 To 9999. %

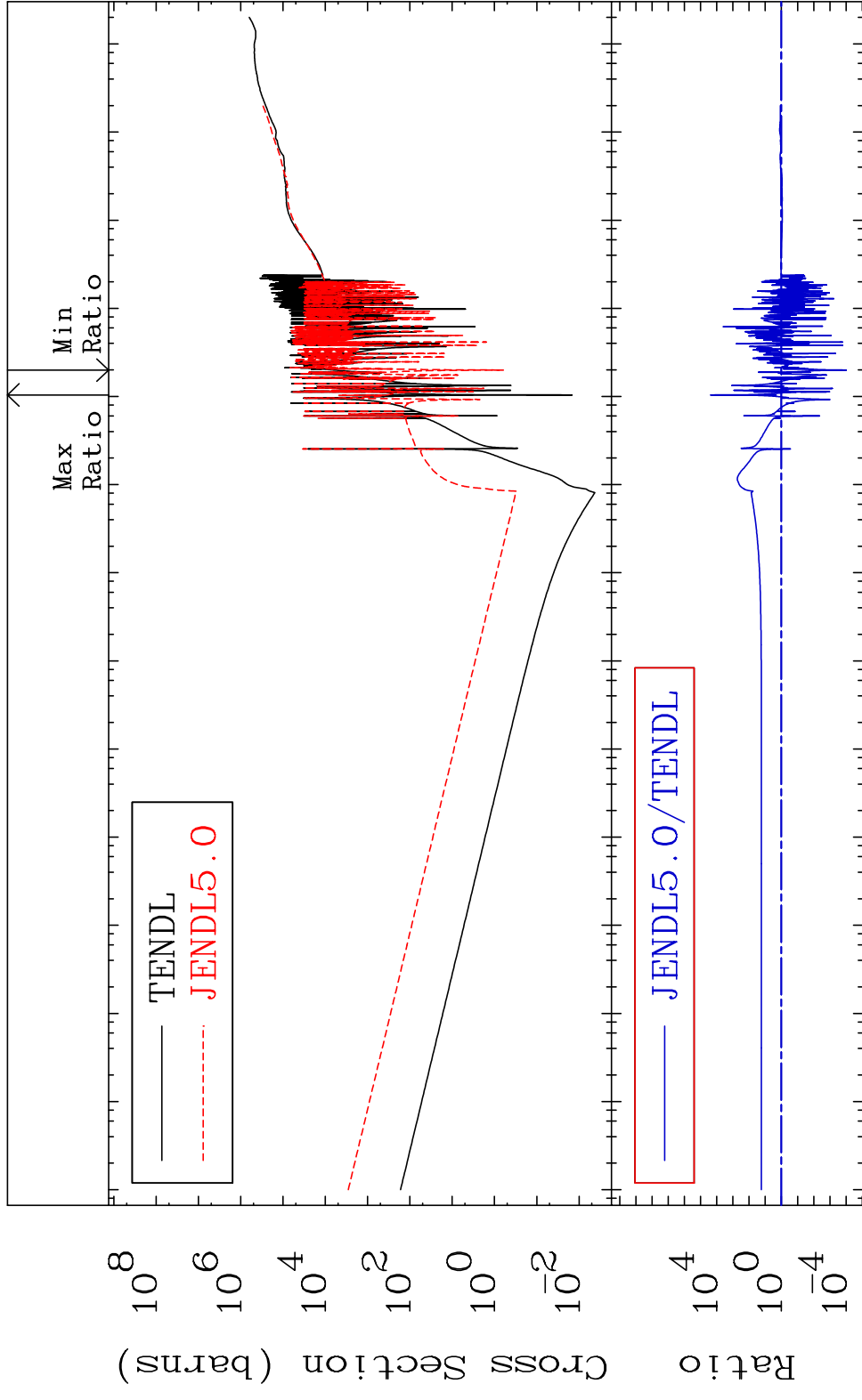


MAT 5837

Dpa total (eV-barns)

58-Ce-140

Cross Section -99.99 To 9999. %

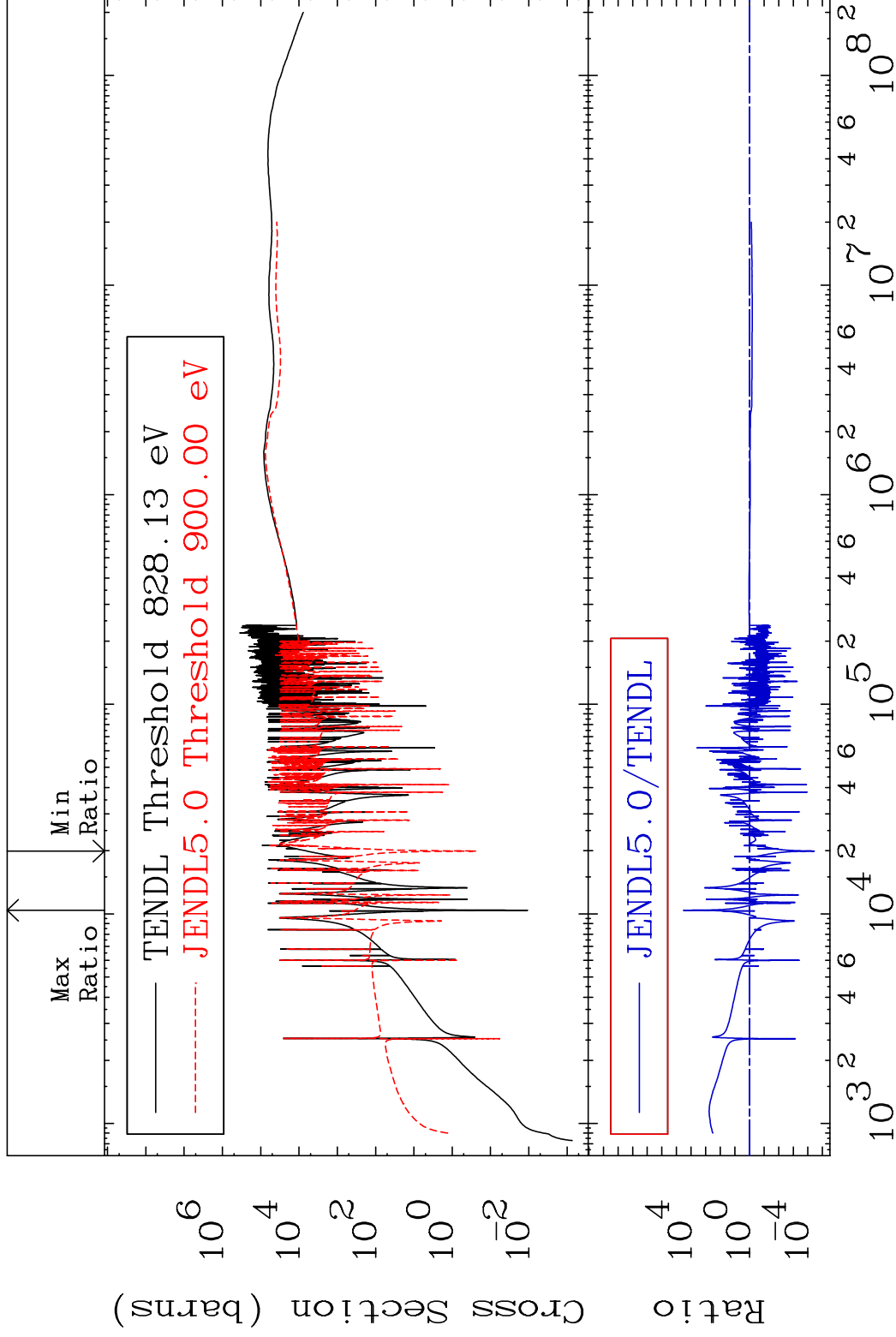


MAT 5837

Dpa elastic (mt2)

58-Ce-140

Cross Section -100.0 To 9999. %

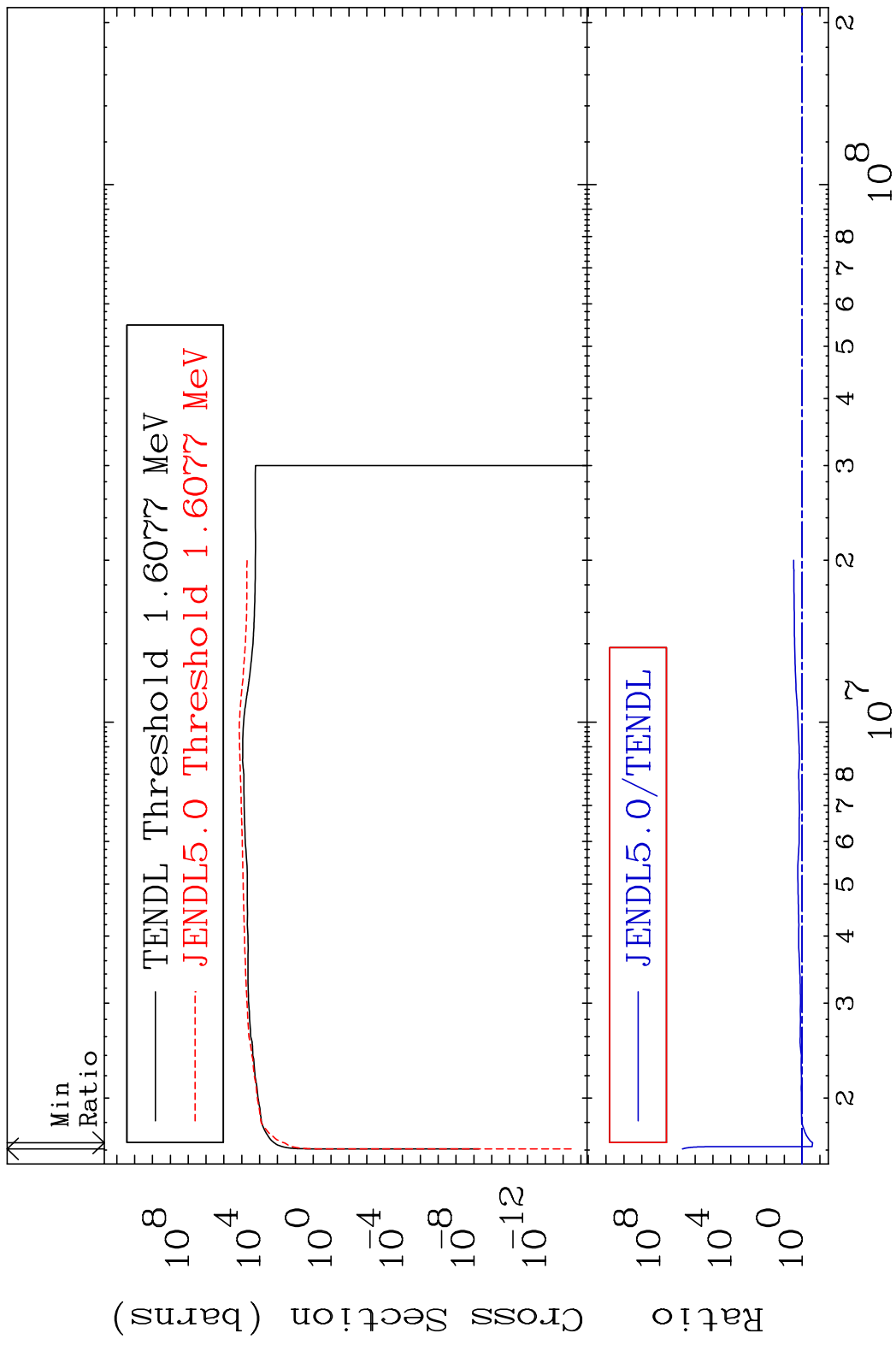


39

Incident Energy (eV)

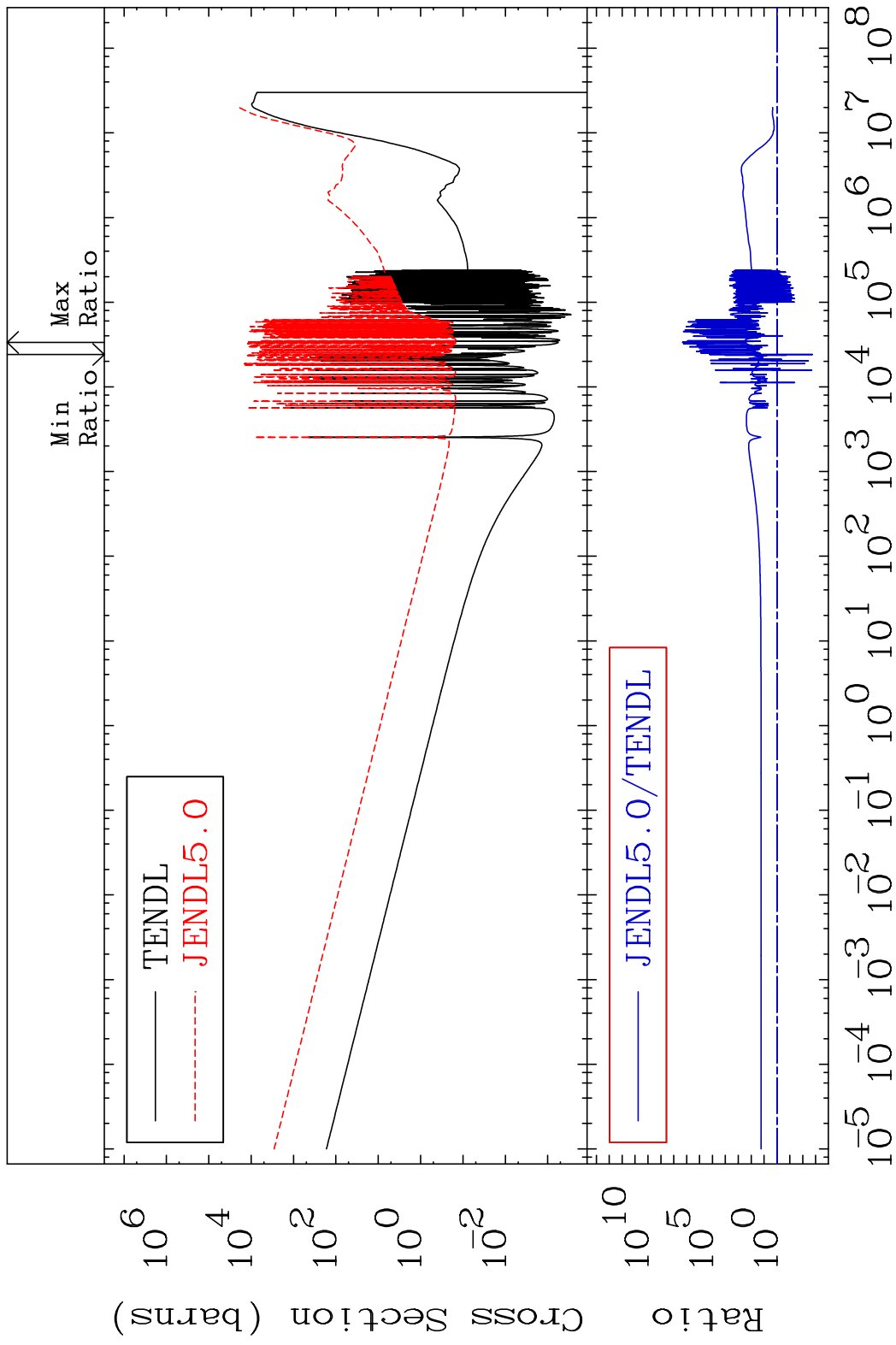
58-Ce-140

MAT 5837 Dpa inelastic (mt51-91) 58-Ce-140
 Cross Section -74.06 To 9999. %

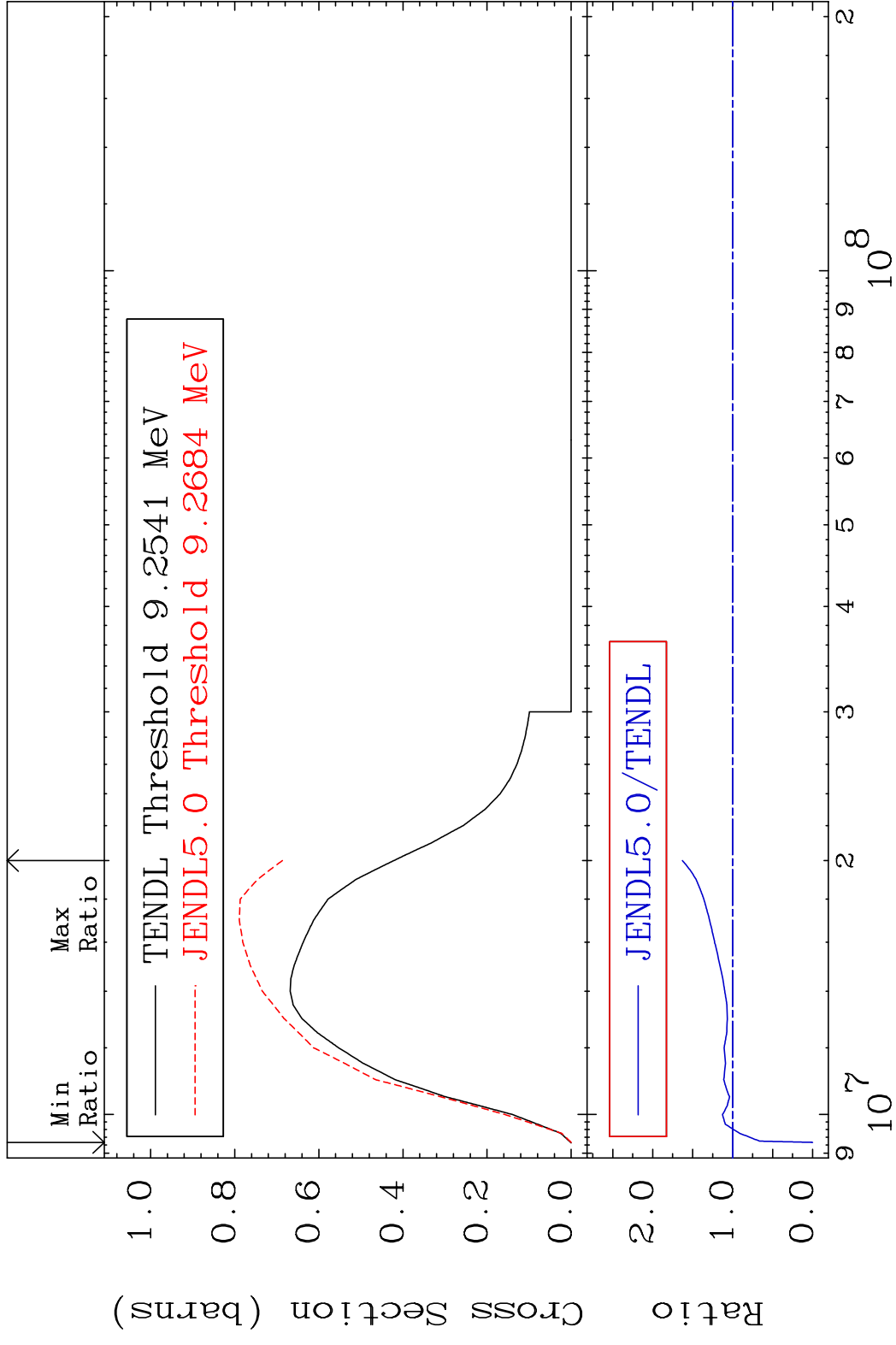


40 Incident Energy (eV) 58-Ce-140

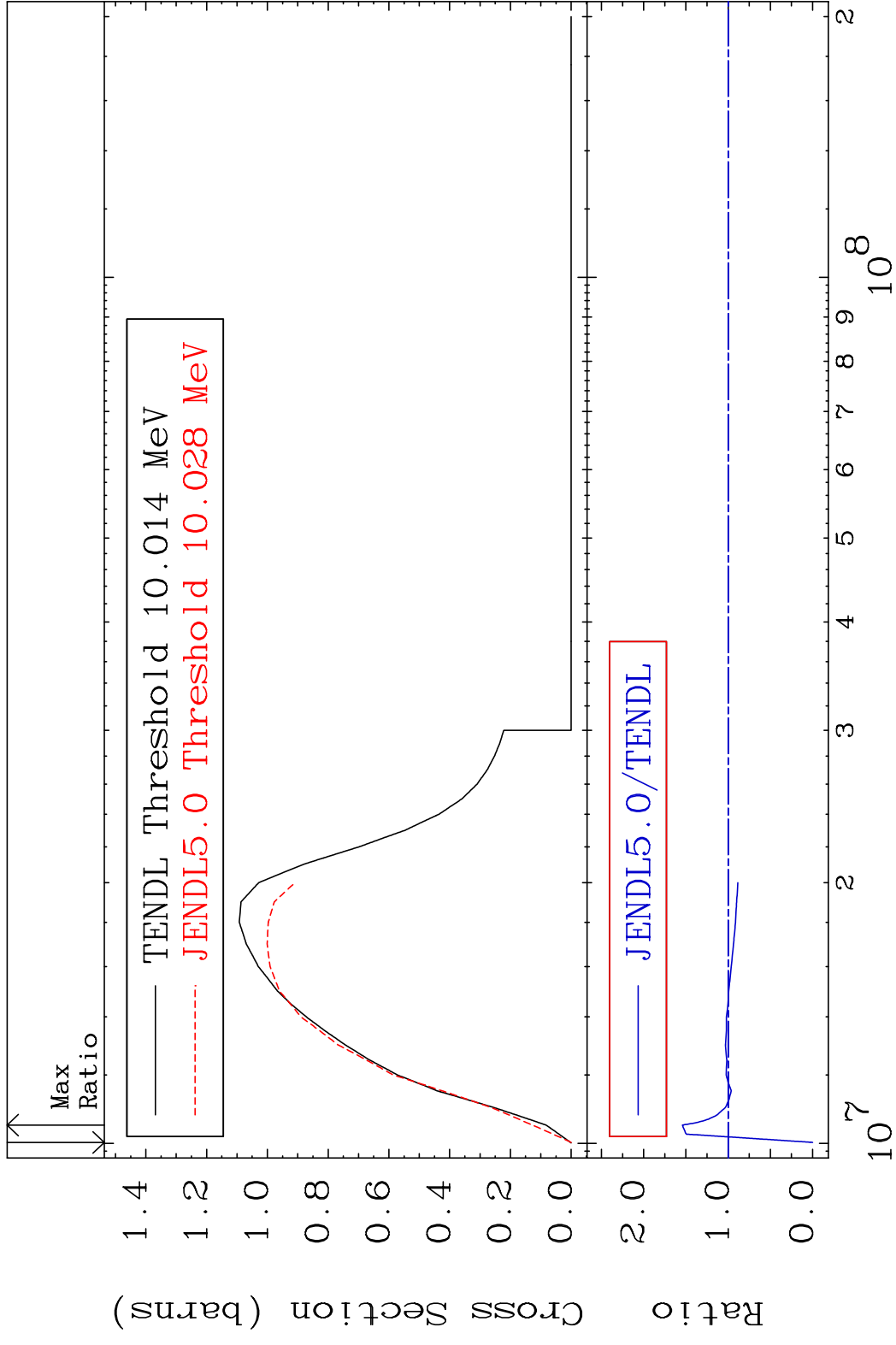
MAT 5837 Dpa disappearance (mt102 -120) 58-Ce-140
 Cross Section -99.83 To 9999. %



MAT 5837 (n,2n):58-Ce-139g 58-Ce-140
 Radionuclide Production Cross Section Ratio 62.90 %



MAT 5837 (n,2n):58-Ce-139m2 58-Ce-140
 Radionuclide Production Cross Section 180.01 dth 54.21 %



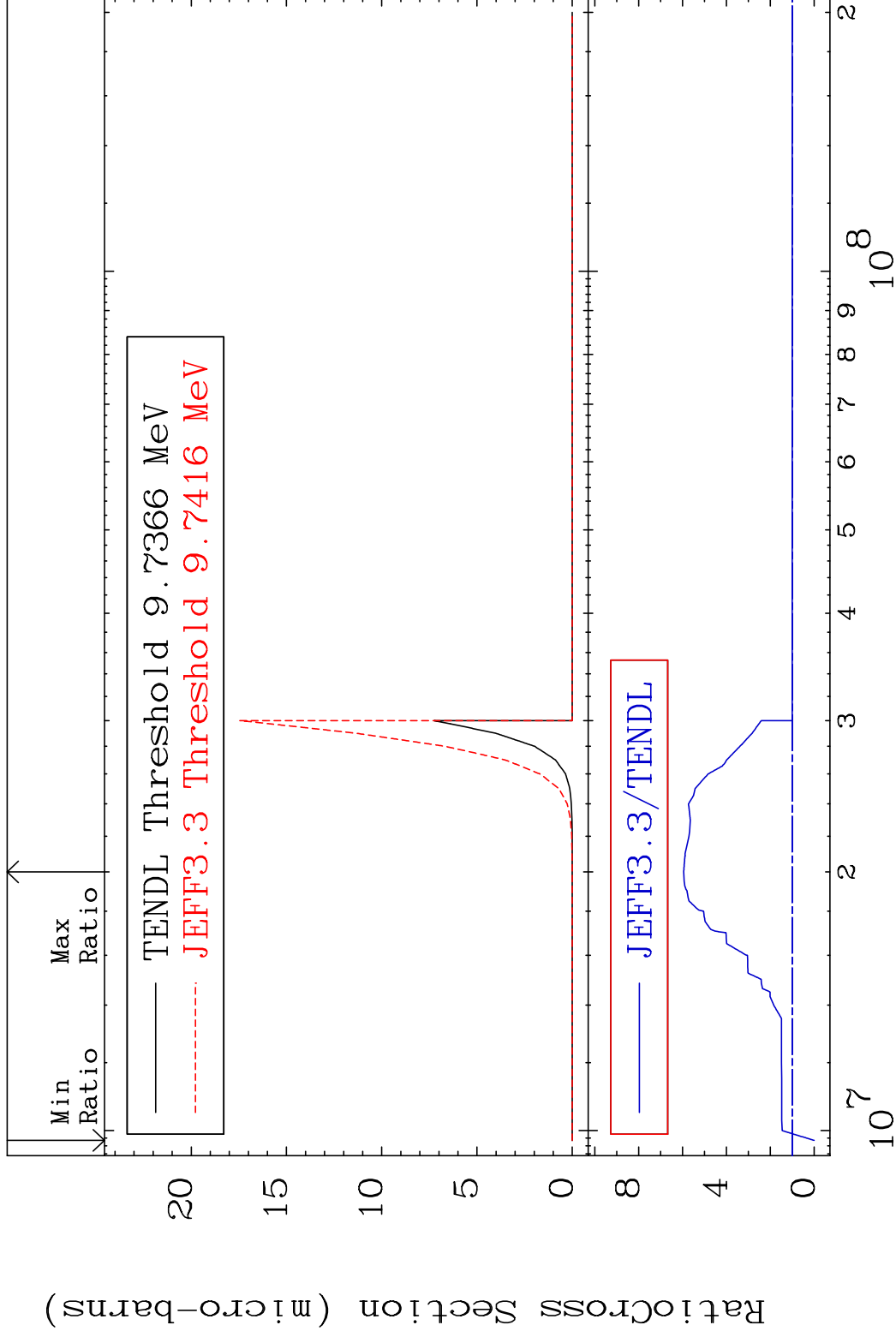
43 Incident Energy (eV) 58-Ce-140

MAT 5837

(n,2p)

58-Ce-140

Cross Section -100.0 To 494.9 %



44

Incident Energy (eV)

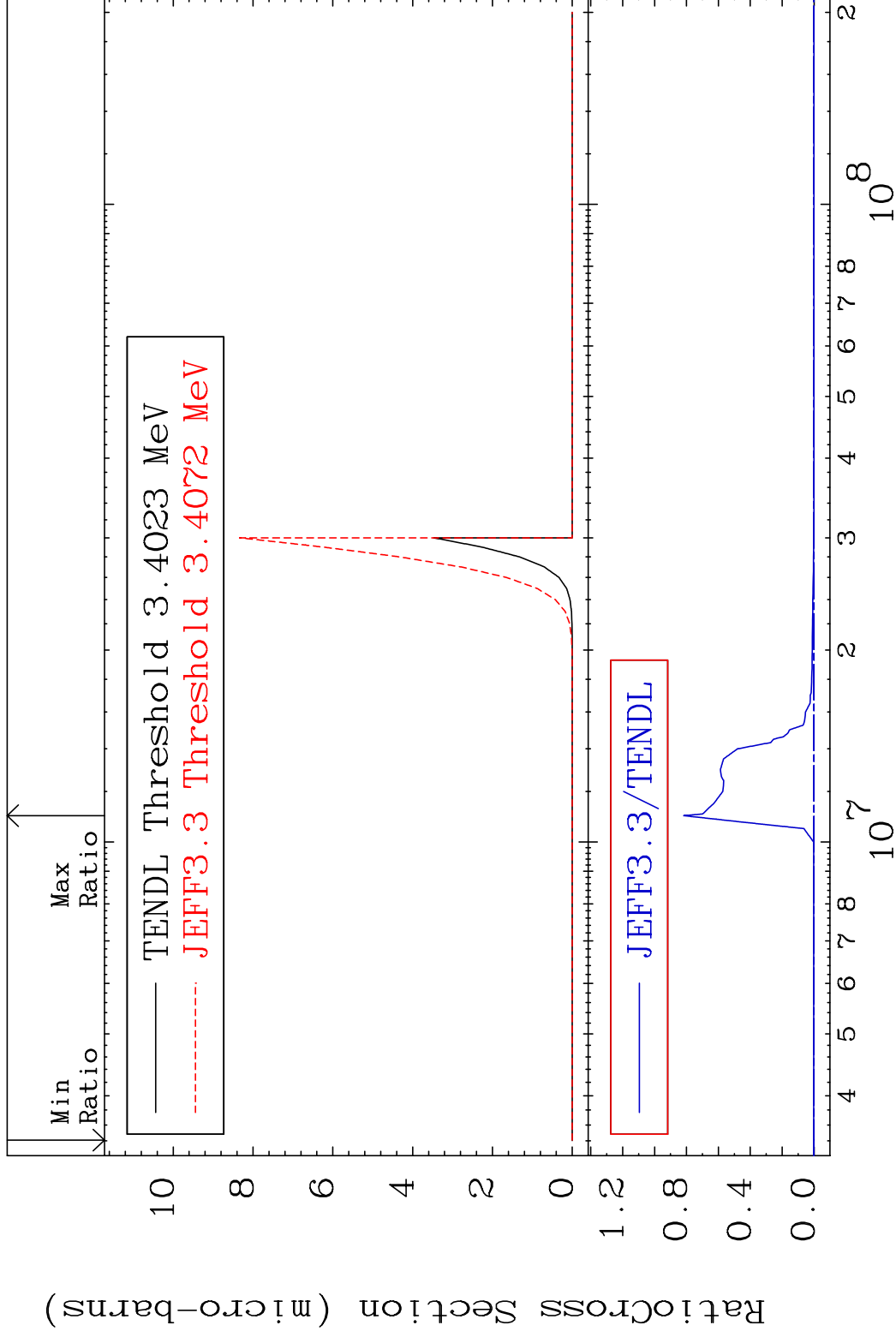
58-Ce-140

MAT 5837

(n,p) α

58-Ce-140

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

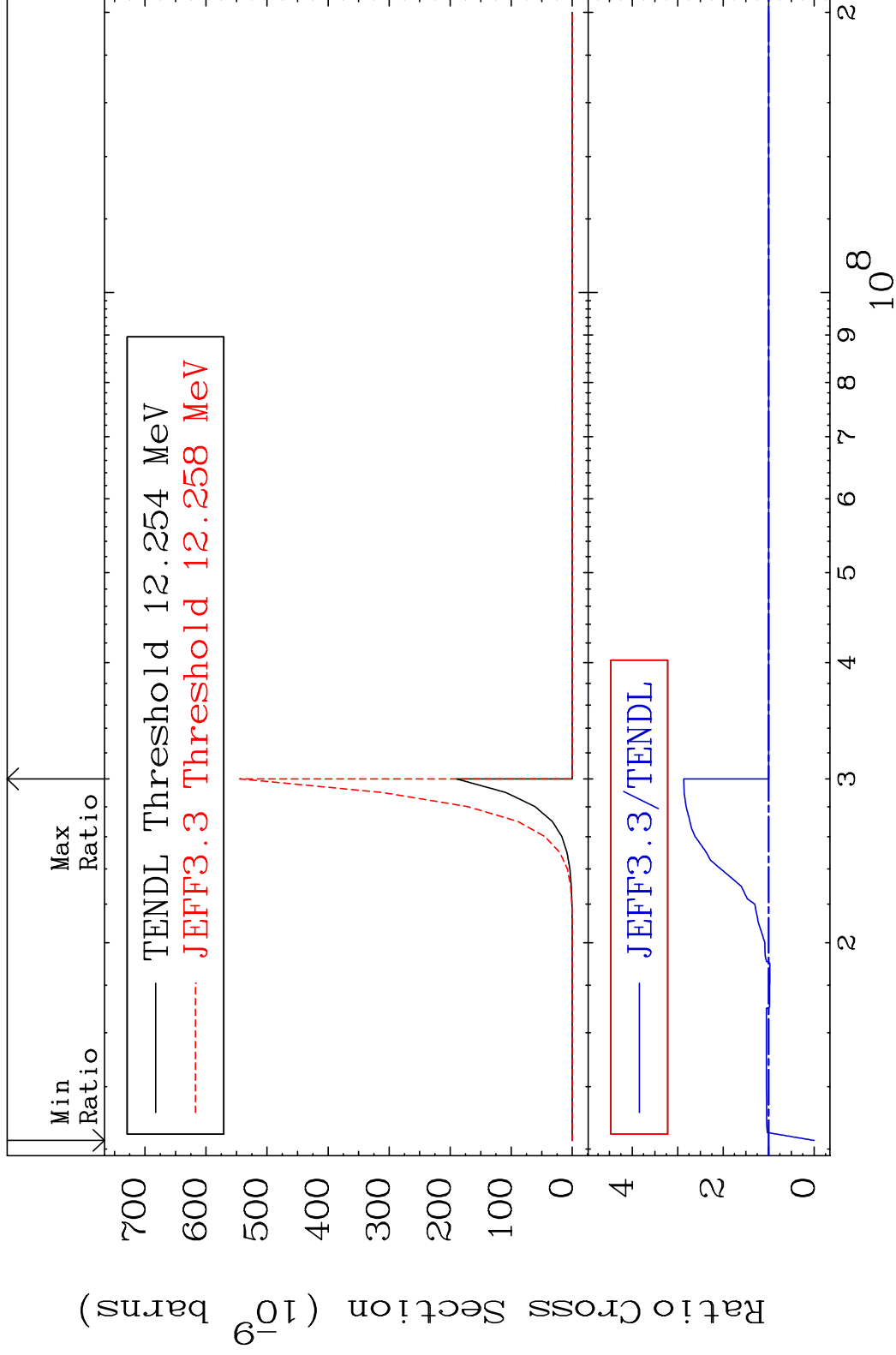
58-Ce-140

MAT 5837

(n,p) d

58-Ce-140

Cross Section -100.0 To 186.8 %



46

Incident Energy (eV)

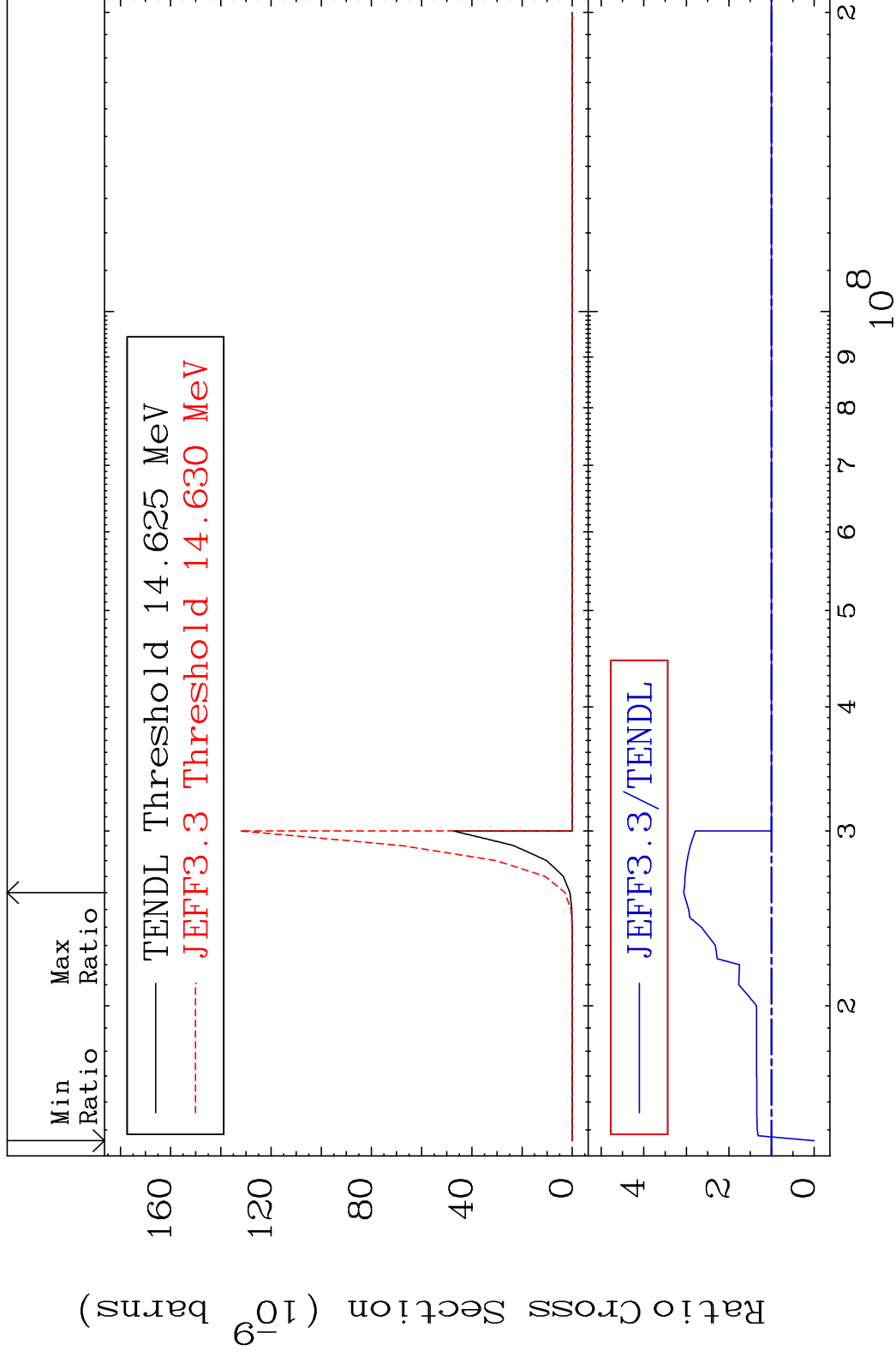
58-Ce-140

MAT 5837

(n,p) t

58-Ce-140

Cross Section -100.0 To 206.4 %



47

Incident Energy (eV)

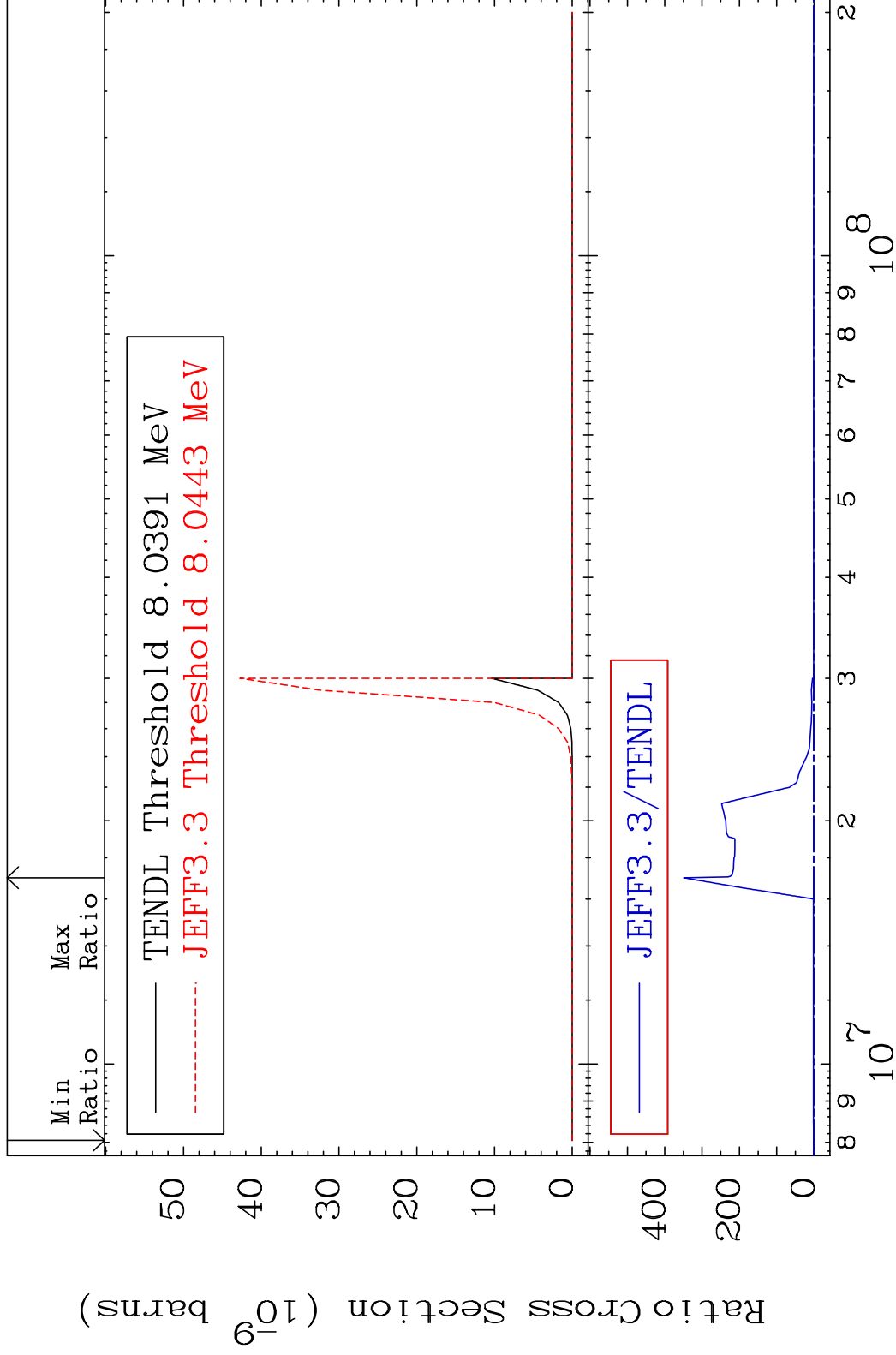
58-Ce-140

MAT 5837

(n,d) α

58-Ce-140

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

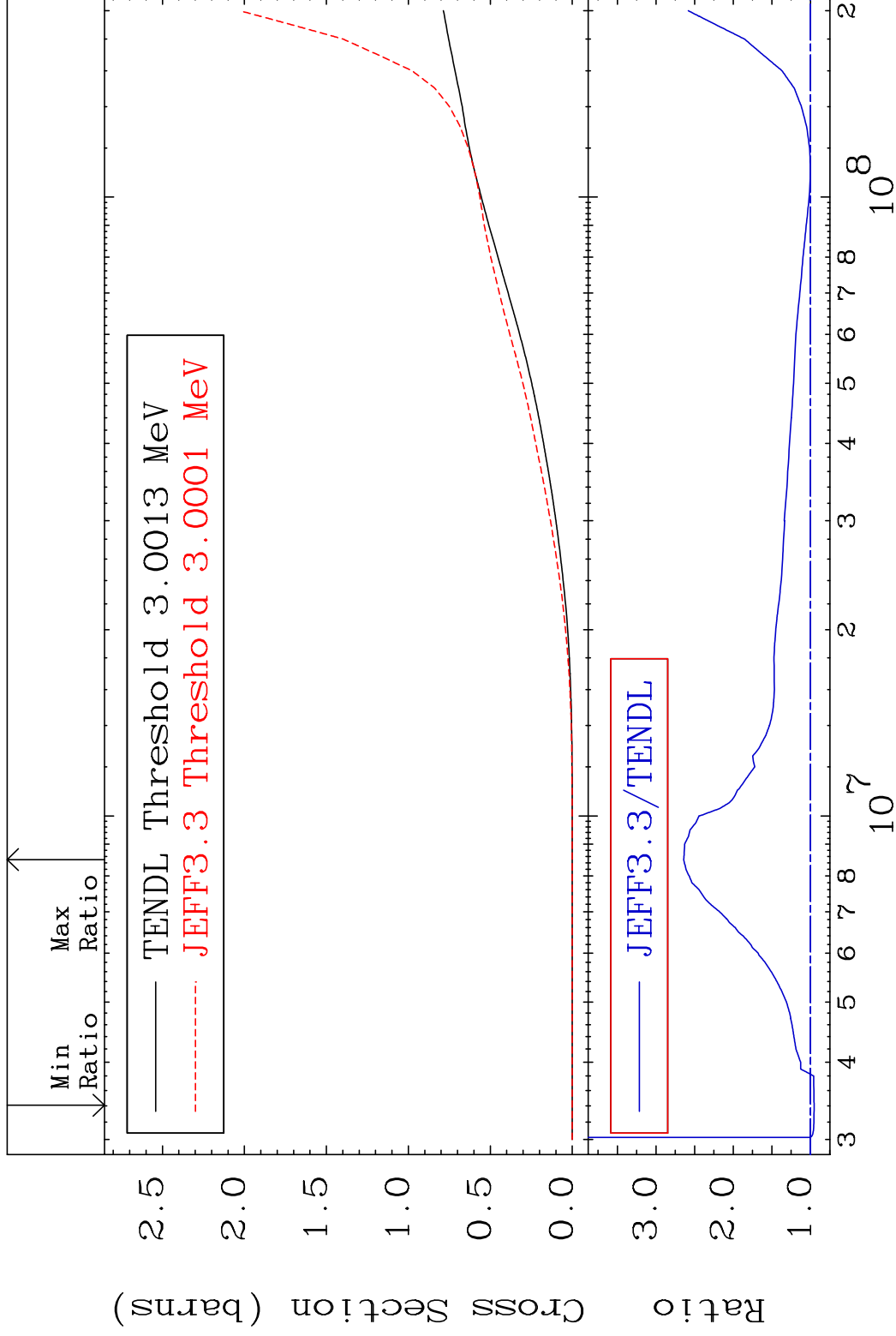
58-Ce-140

MAT 5837

Hydrogen Production

58-Ce-140

Cross Section -4.785 To 164.1 %



49

Incident Energy (eV)

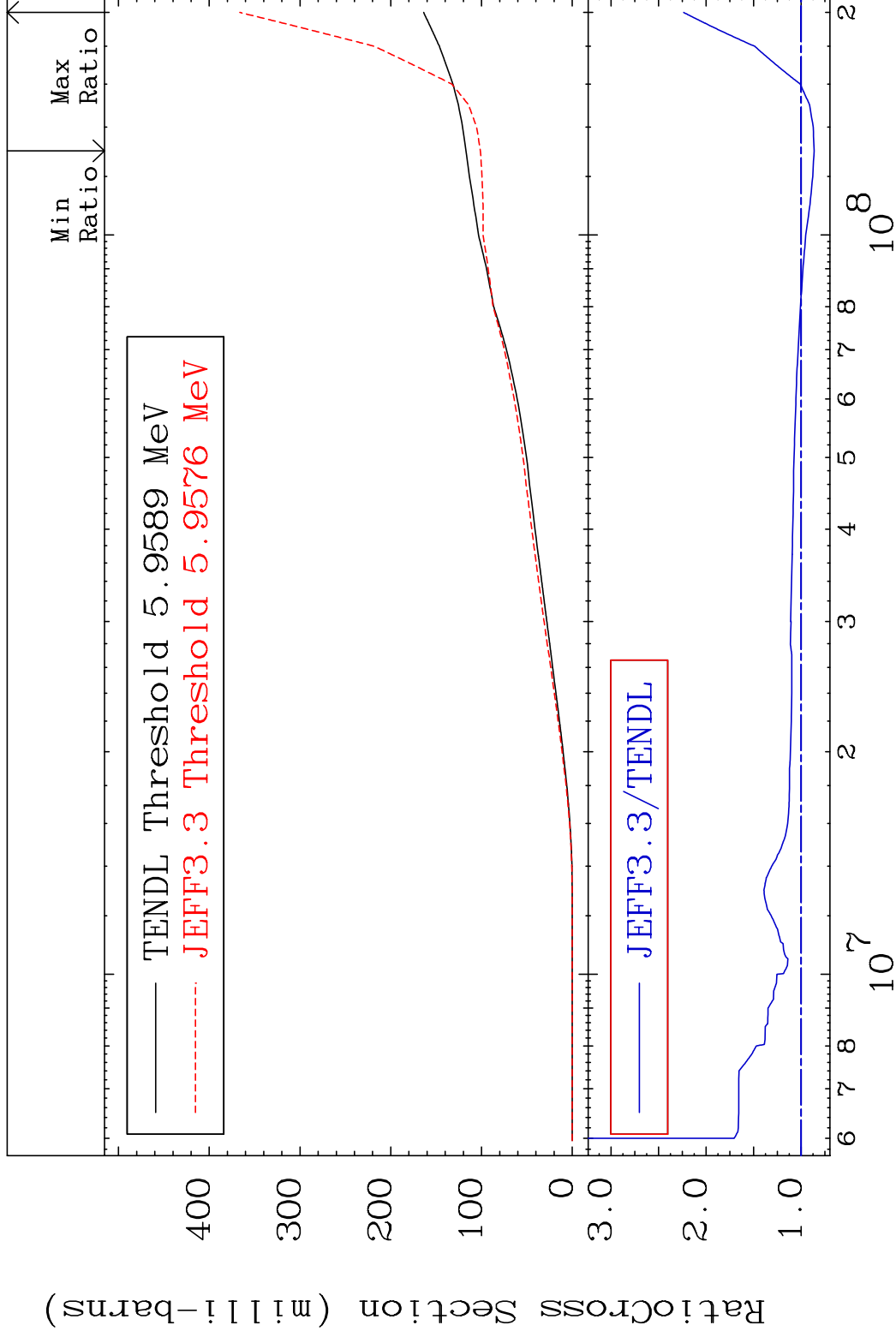
58-Ce-140

MAT 5837

Deuterium Production

58-Ce-140

Cross Section -13.65 To 123.6 %



50

Incident Energy (eV)

58-Ce-140

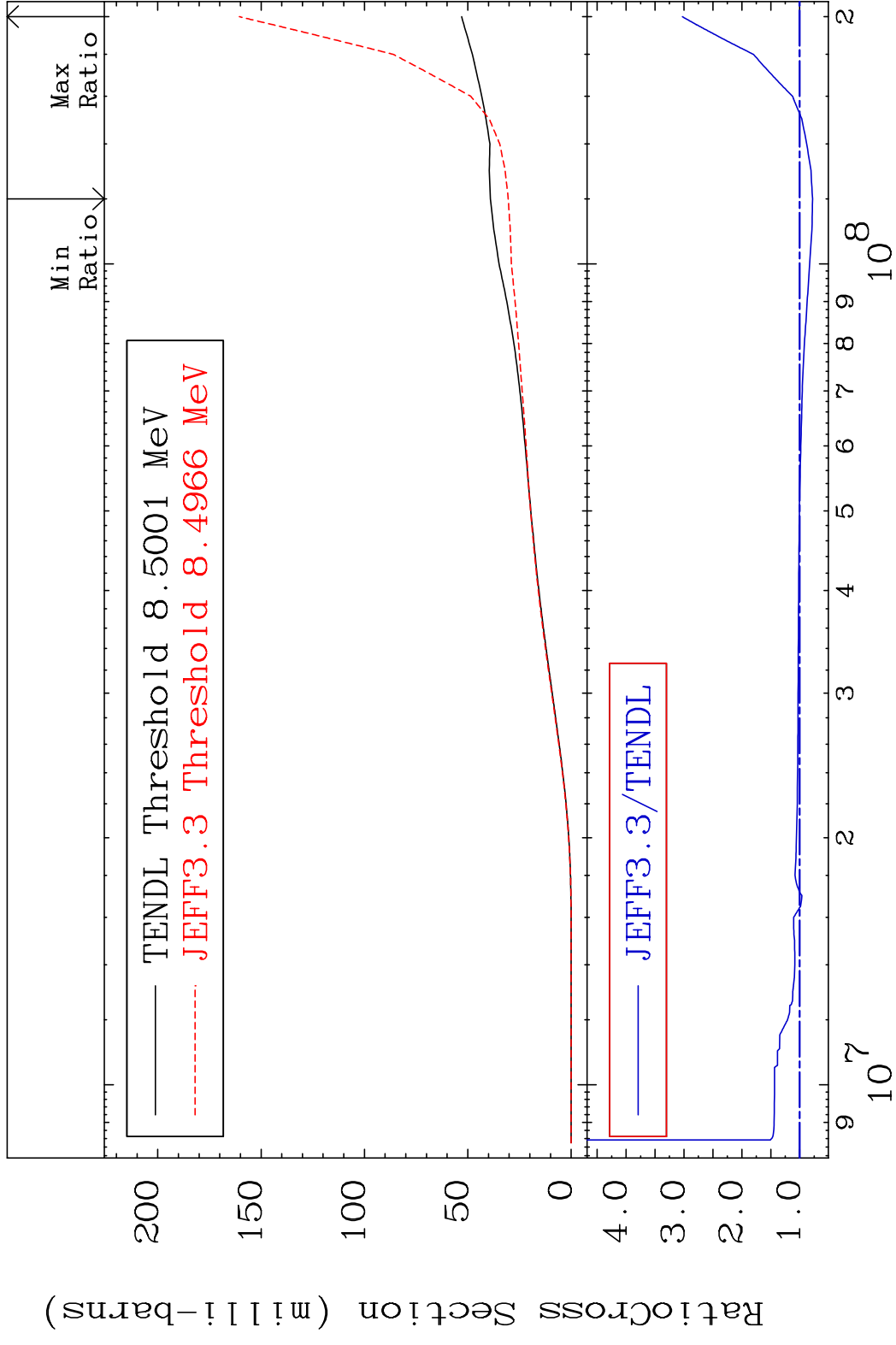
MAT 5837

Tritium Production

58-Ce-140

Cross Section

-22.18 To 202.8 %

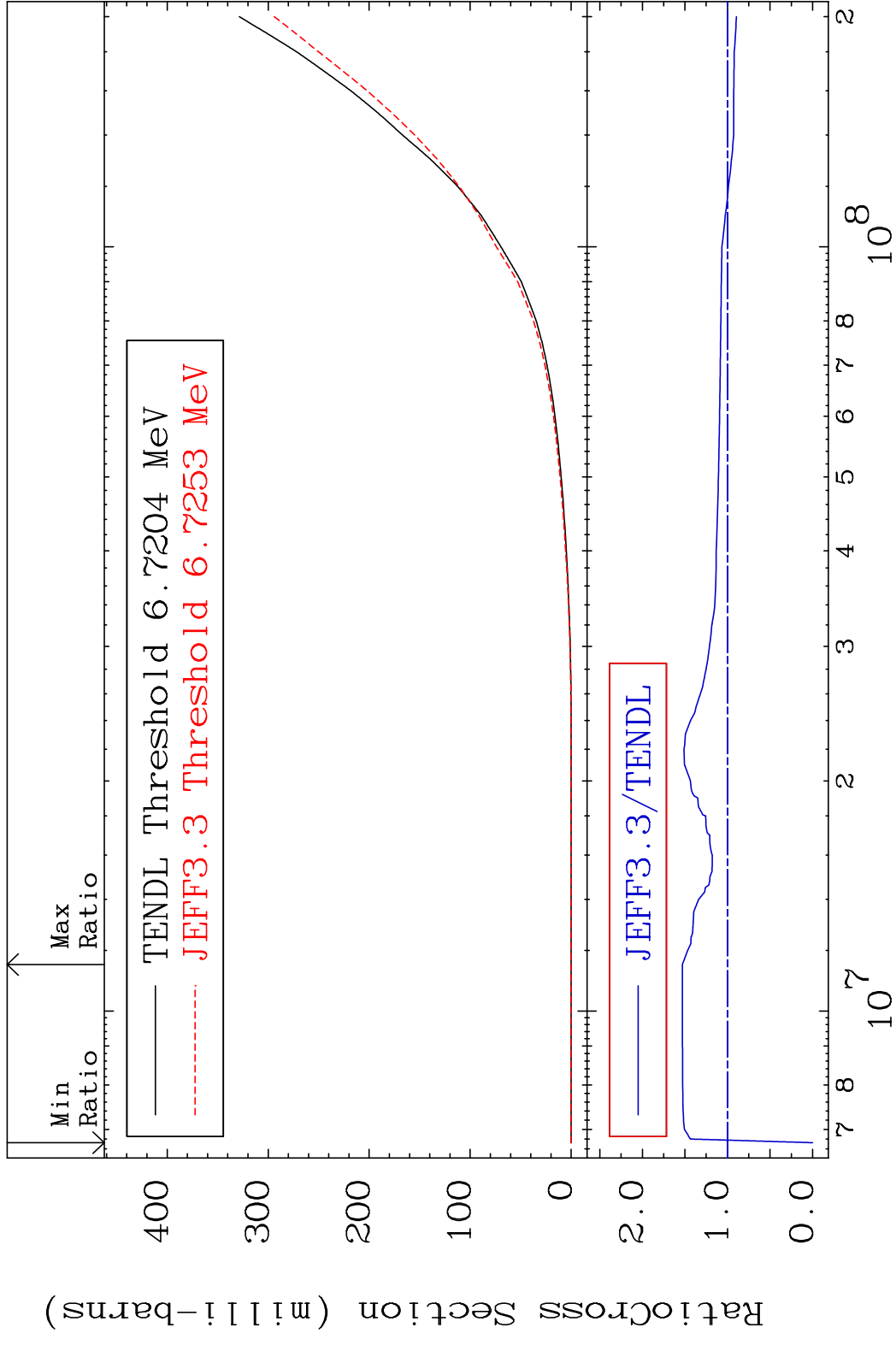


MAT 5837

He-3 Production

58-Ce-140

Cross Section -100.0 To 53.03 %

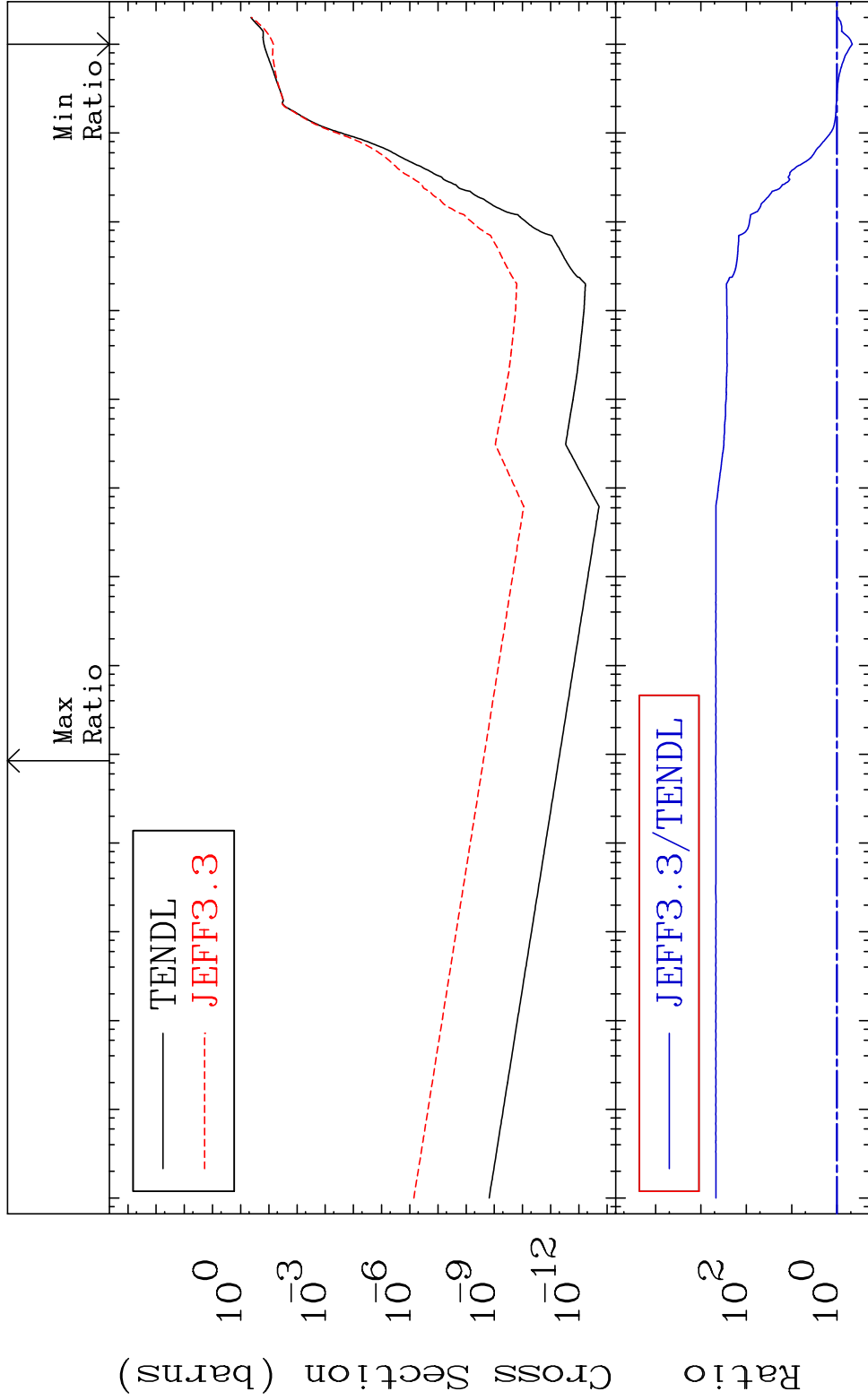


MAT 5837

He-4 Production

58-Ce-140

Cross Section -53.62 To 9999. %

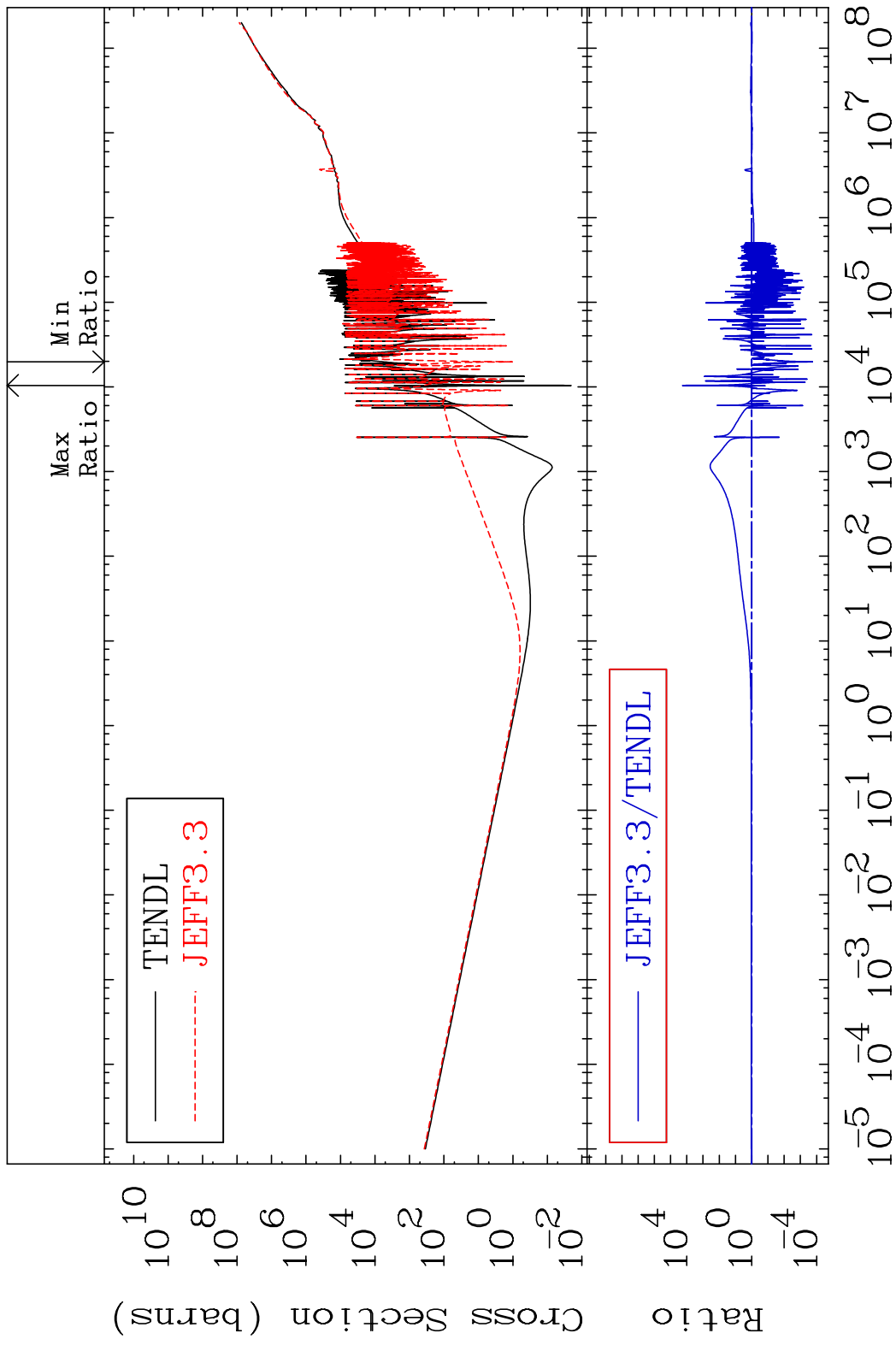


53

Incident Energy (eV)

58-Ce-140

MAT 5837 Kerma total (eV-barns) 58-Ce-140
 Cross Section -99.98 To 9999. %

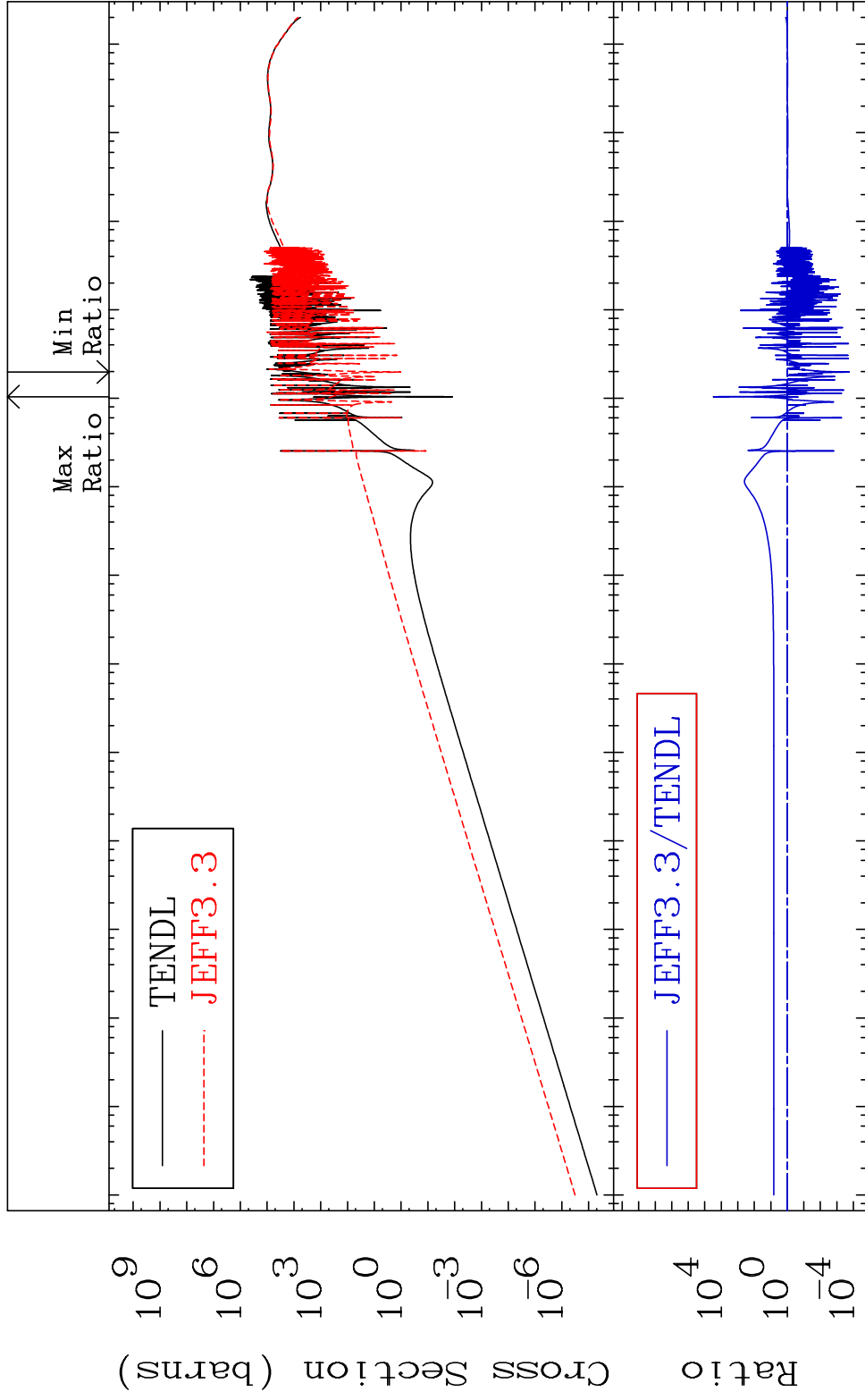


54 Incident Energy (eV) 58-Ce-140

MAT 5837

Kerma elastic
Cross Section

58-Ce-140
-99.98 To 9999. %

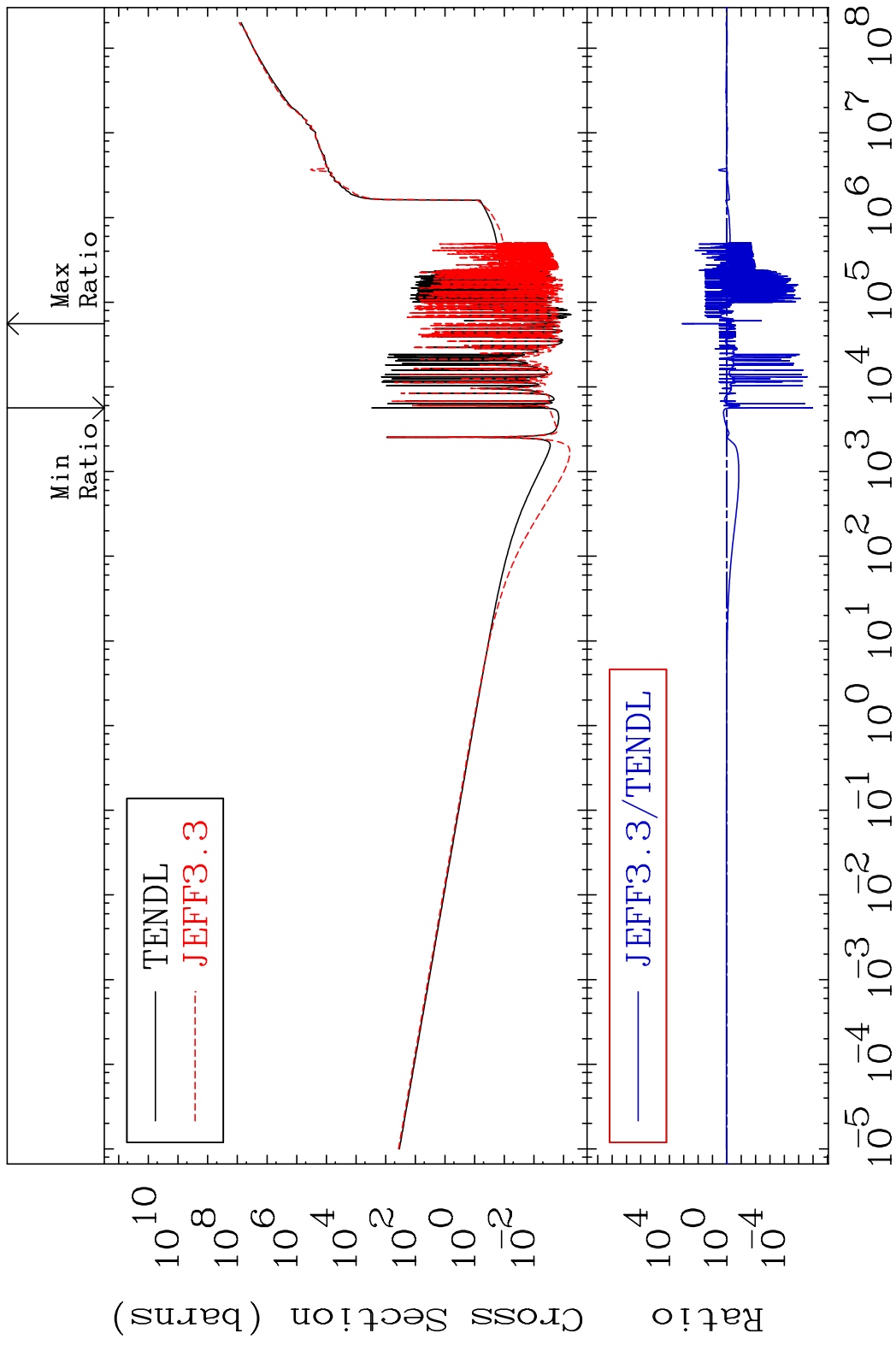


55

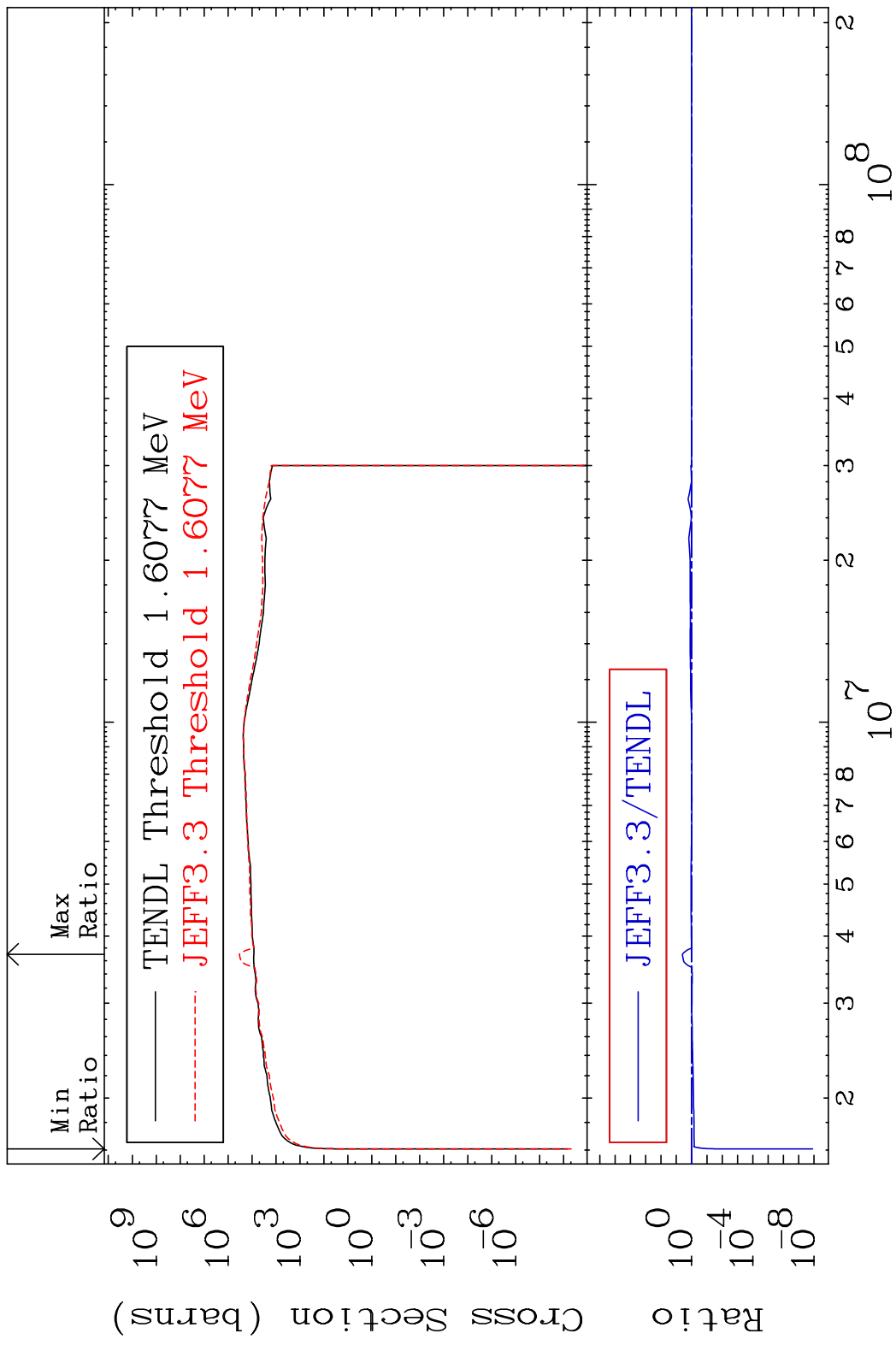
Incident Energy (eV)

58-Ce-140

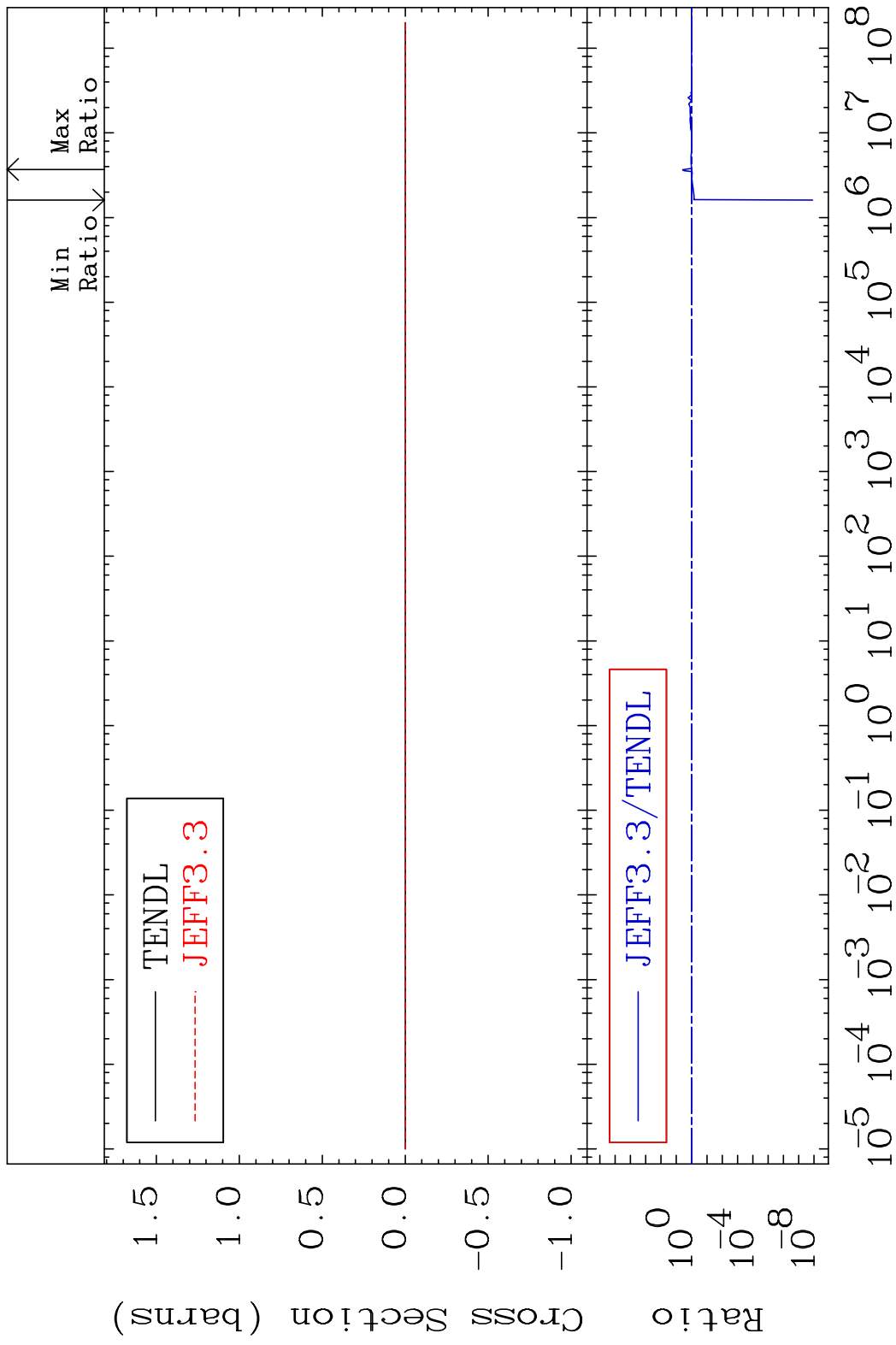
MAT 5837 Kerma non-elastic (all but mt2) 58-Ce-140
 Cross Section -100.0 To 9999. %



MAT 5837 Kerma inelastic (mt51-91) 58-Ce-140
 Cross Section -100.0 To 302.7 %

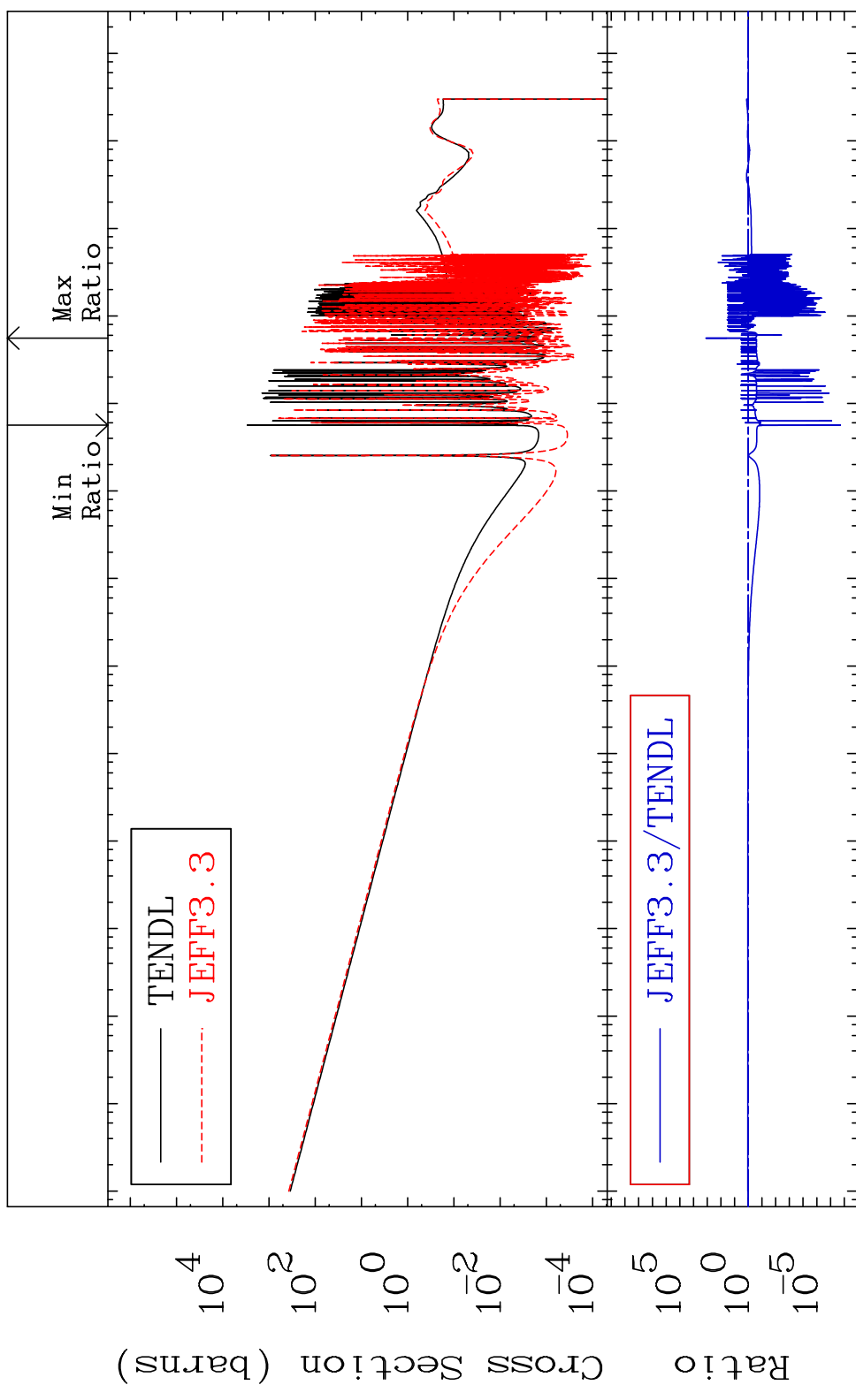


MAT 5837 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-140
 Cross Section -100.0 To 302.7 %



MAT 5837

Kerma capture (mt102) 58-Ce-140
Cross Section -100.0 To 9999. %

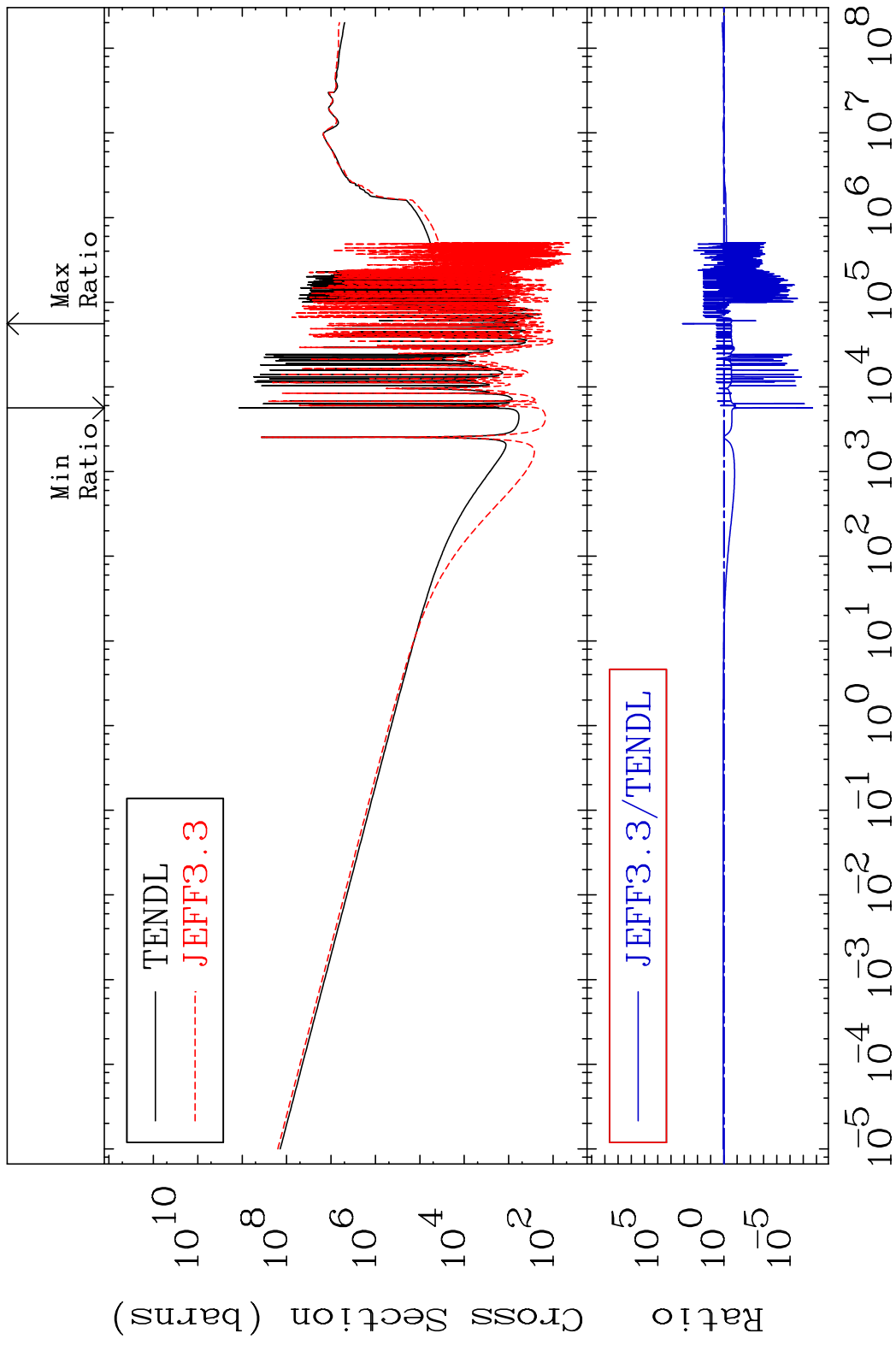


59

Incident Energy (eV)

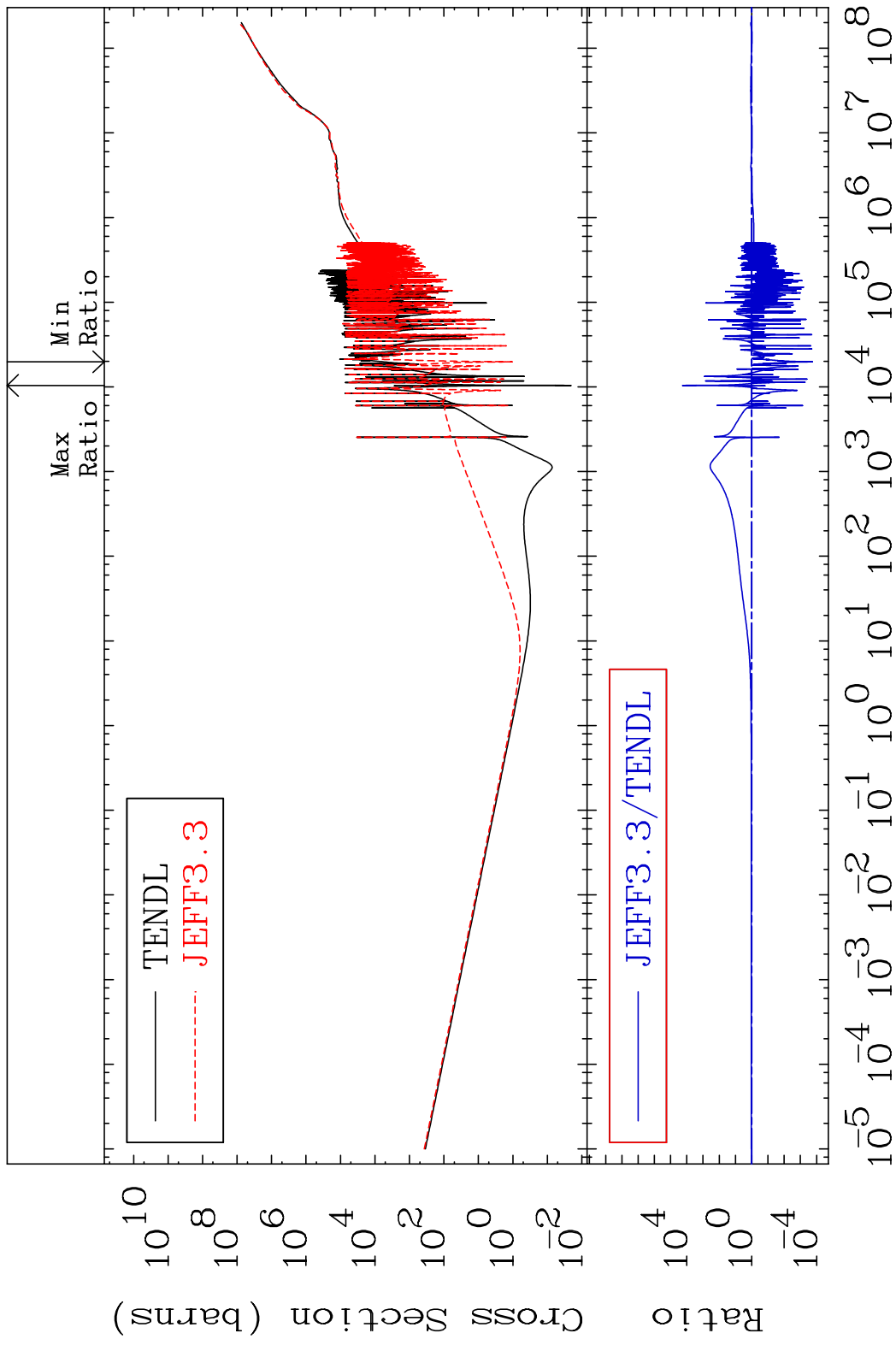
58-Ce-140

MAT 5837 Total photon (eV-barns) 58-Ce-140
Cross Section -100.0 To 9999. %



60 Incident Energy (eV) 58-Ce-140

MAT 5837 Total kinematic kerma (high limit) 58-Ce-140
 Cross Section -99.98 To 9999. %

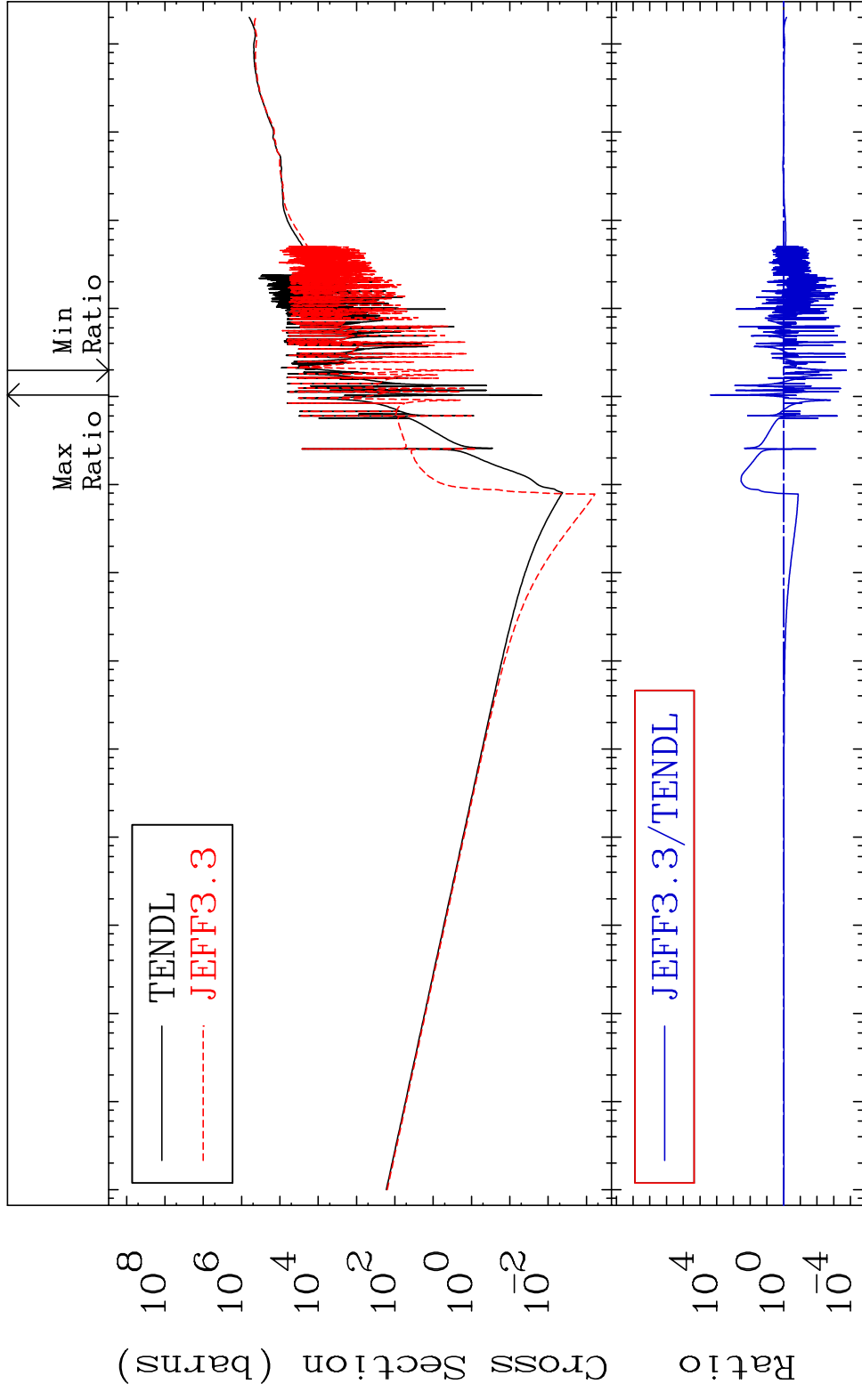


MAT 5837

Dpa total (eV-barns)

58-Ce-140

Cross Section -99.98 To 9999. %



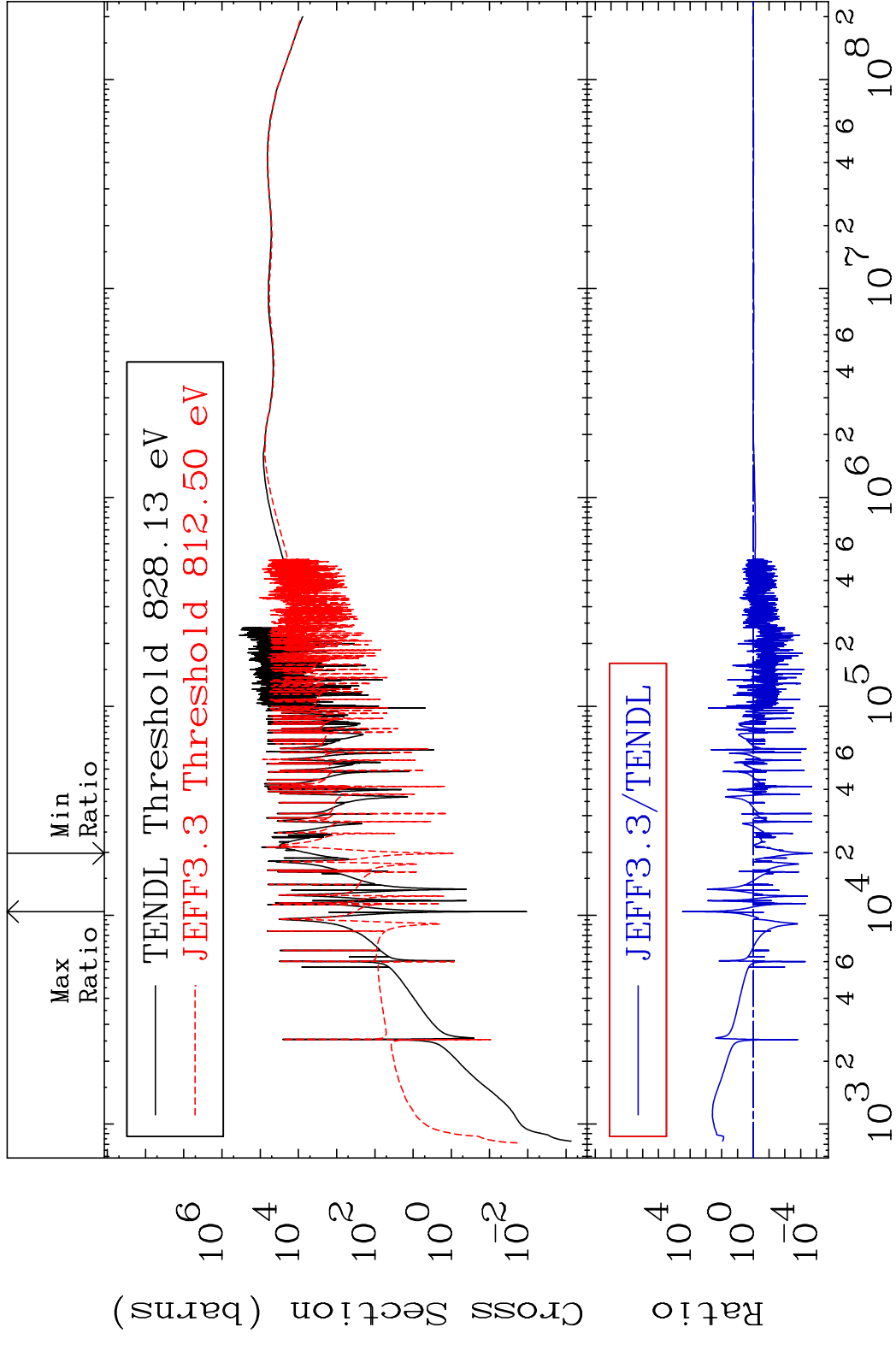
MAT 5837

Dpa elastic (mt2)

58-Ce-140

Cross Section

-99.98 To 9999. %

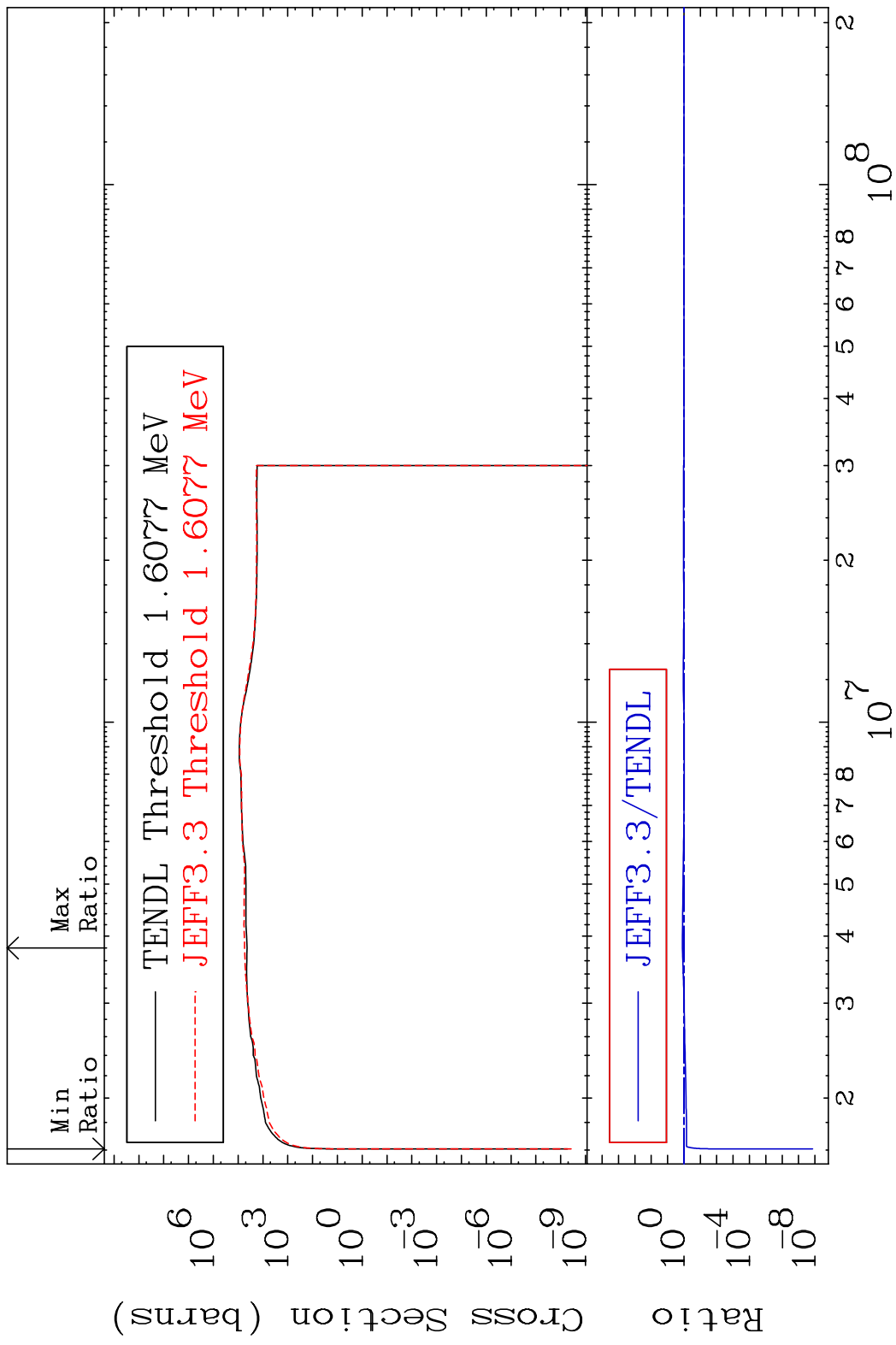


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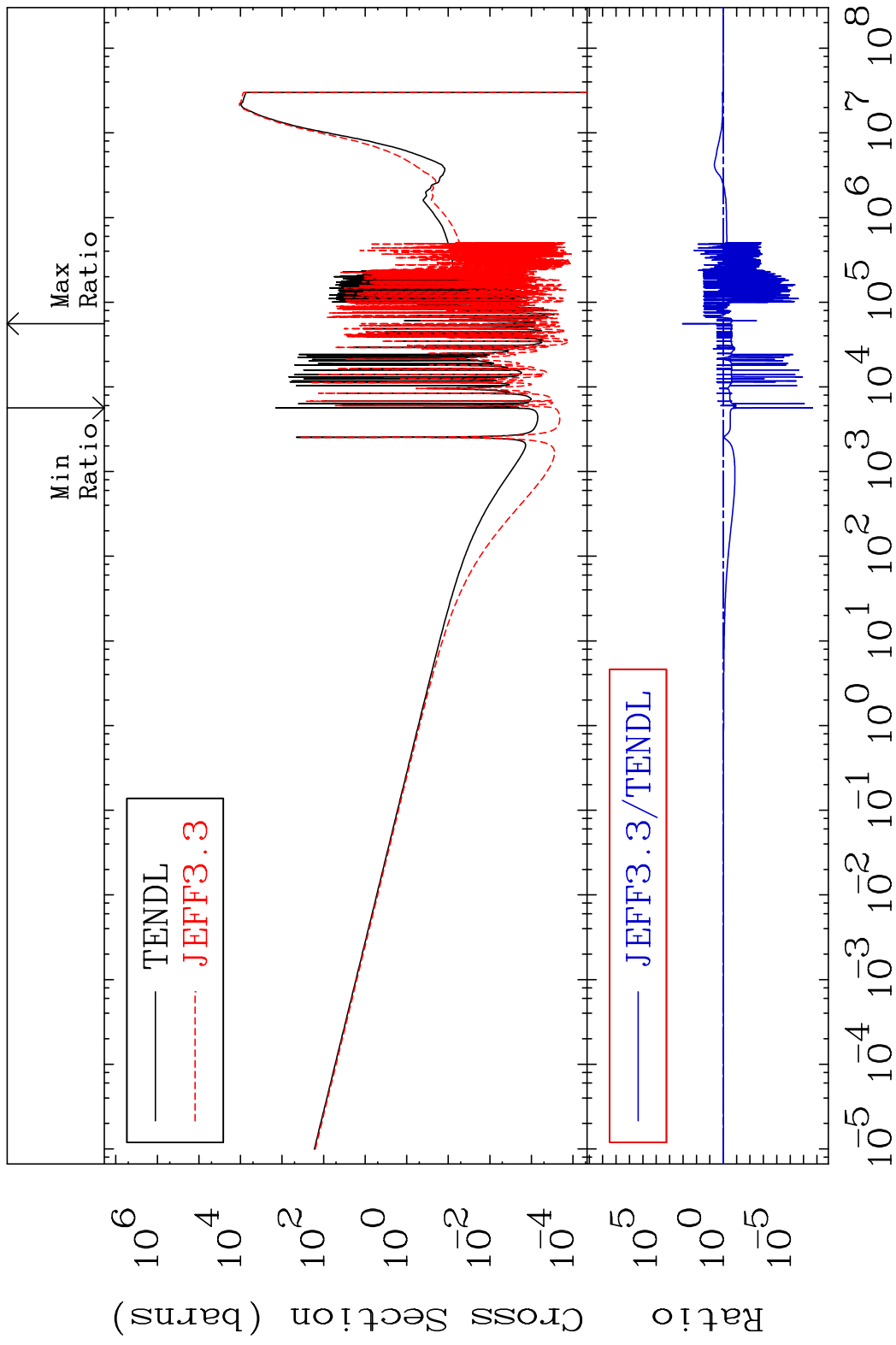
Incident Energy (eV)

58-Ce-140

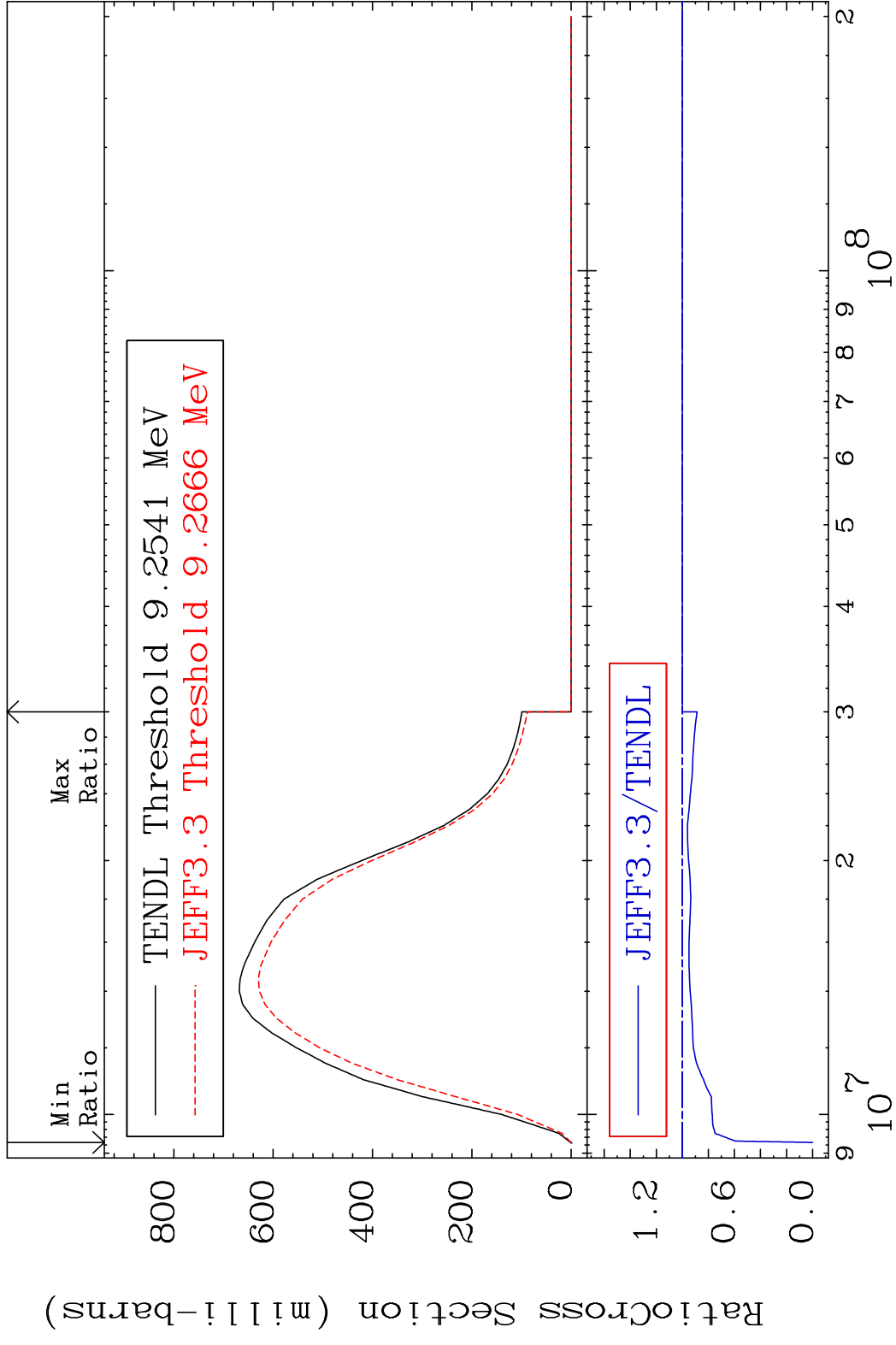
MAT 5837 Dpa inelastic (mt51-91) 58-Ce-140
 Cross Section -100.0 To 25.27 %



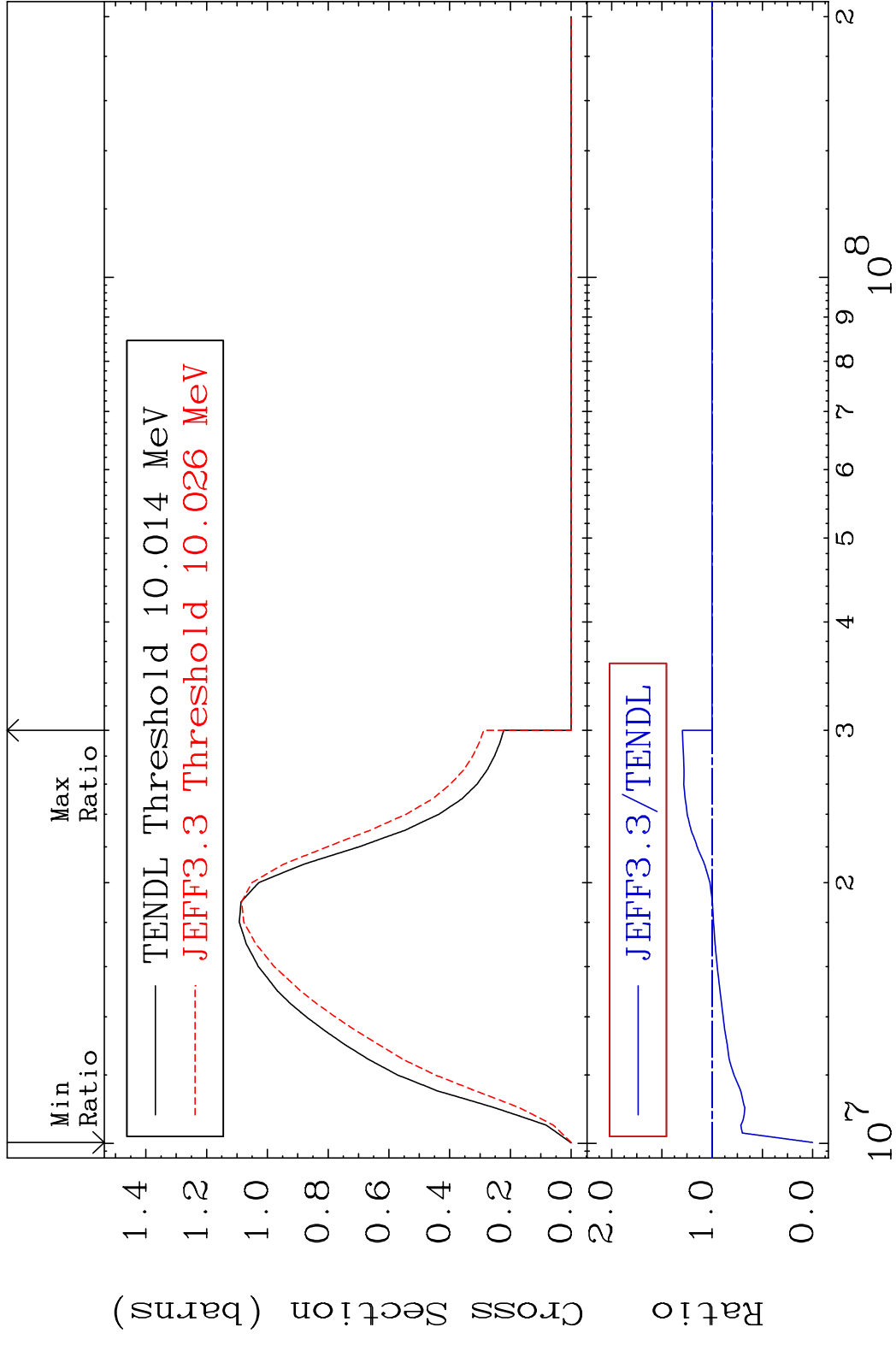
MAT 5837 Dpa disappearance (mt102 -120) 58-Ce-140
 Cross Section -100.0 To 9999. %



MAT 5837 (n,2n):58-Ce-139g 58-Ce-140
 Radionuclide Production Cross Section 180.00 dth 0.000 %

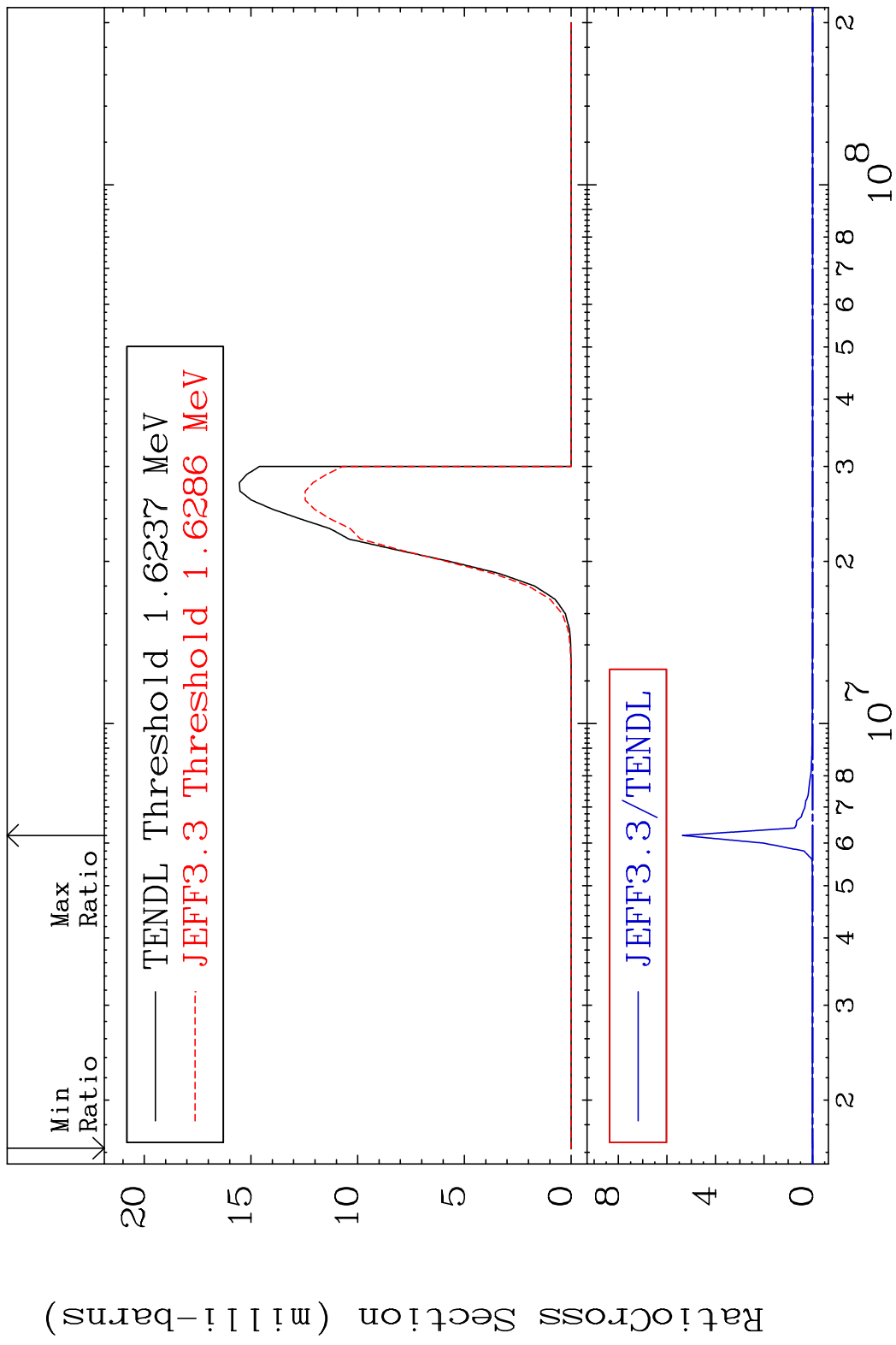


MAT 5837 (n,2n):58-Ce-139m2 58-Ce-140
 Radionuclide Production Cross Section Ratio 29.67 %

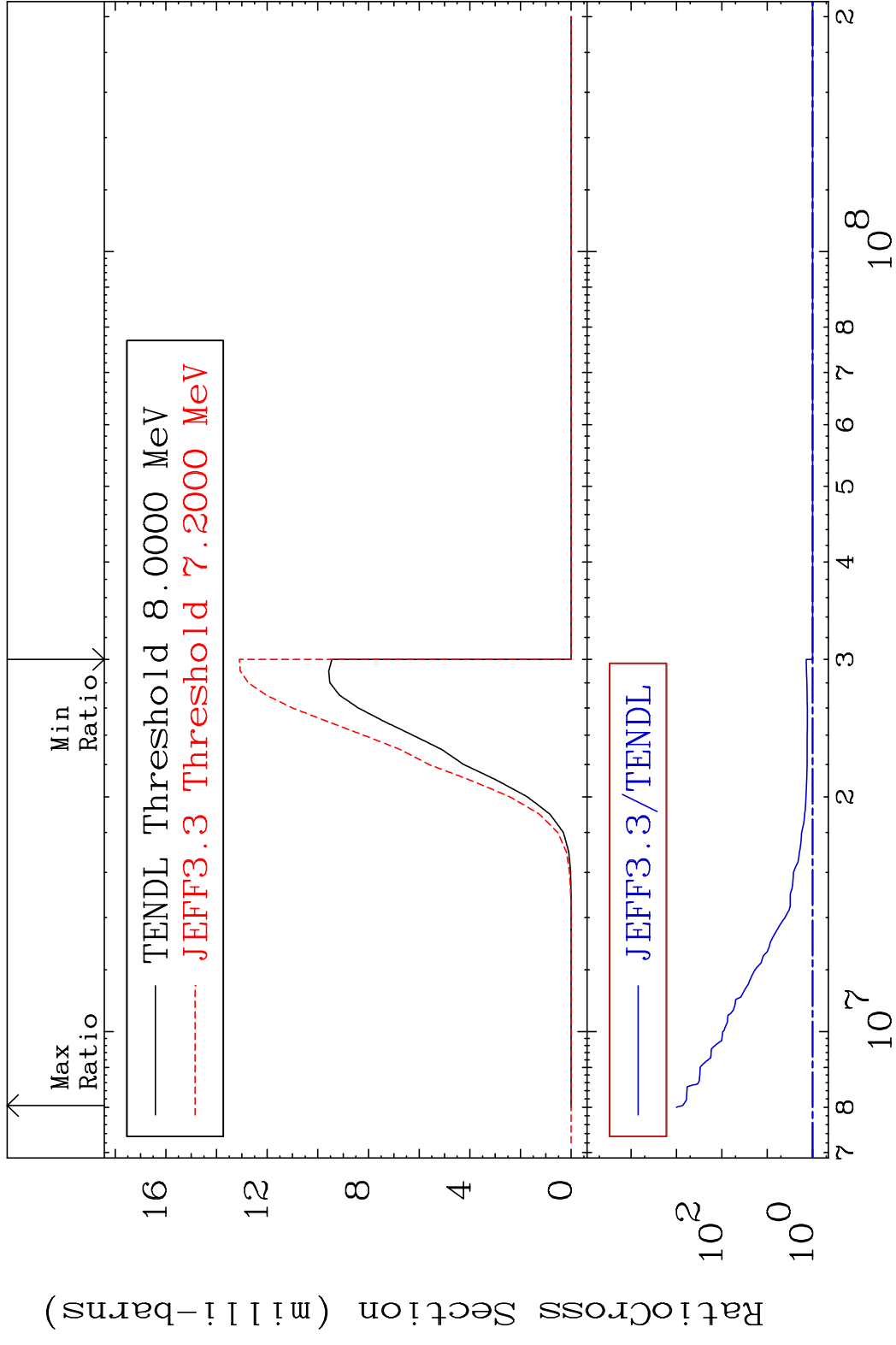


67 Incident Energy (eV) 58-Ce-140

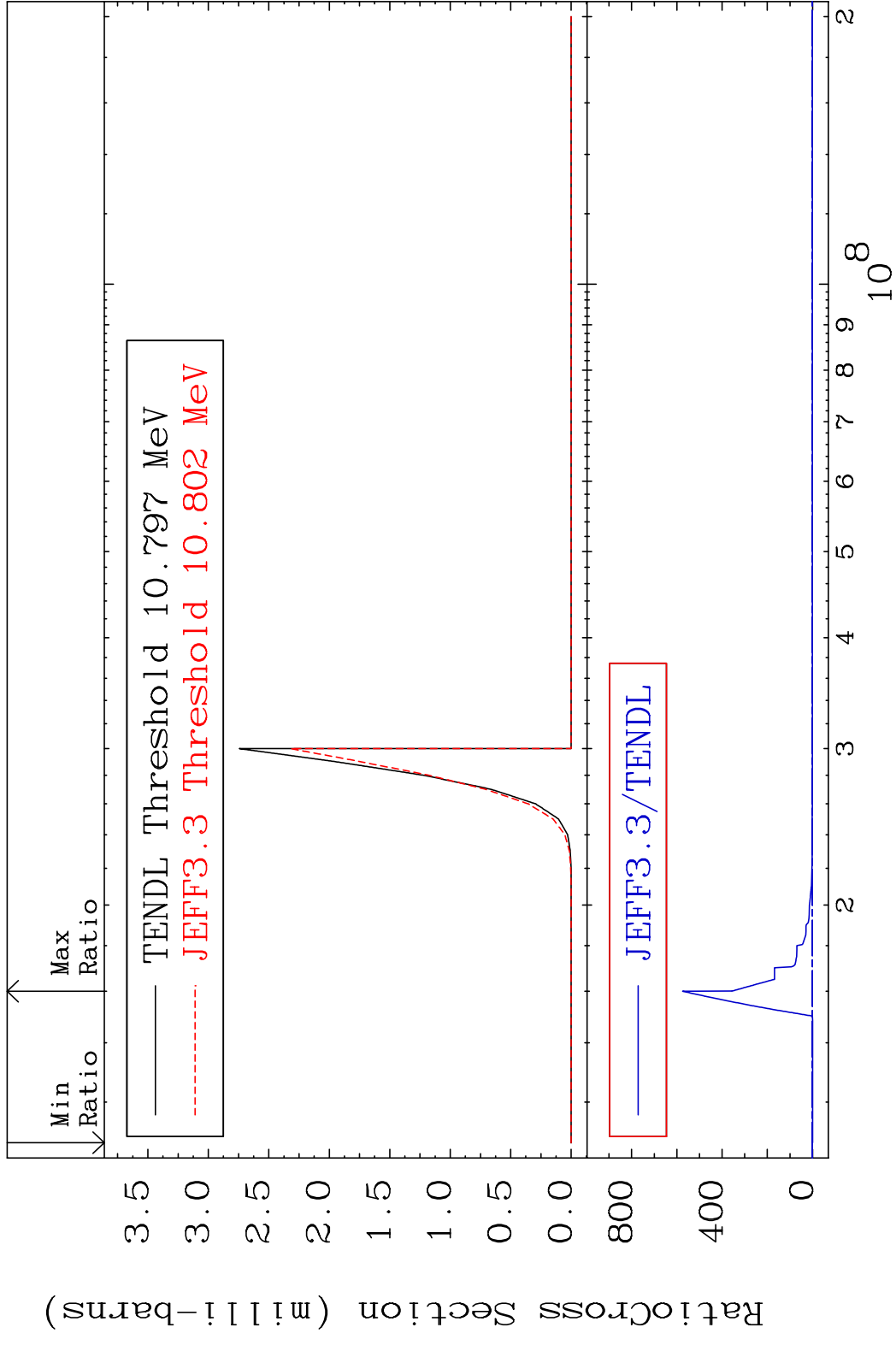
MAT 5837 (n, n') α :56-Ba-136g 58-Ce-140
 Radionuclide Production Cross Section Ratio 9999. %

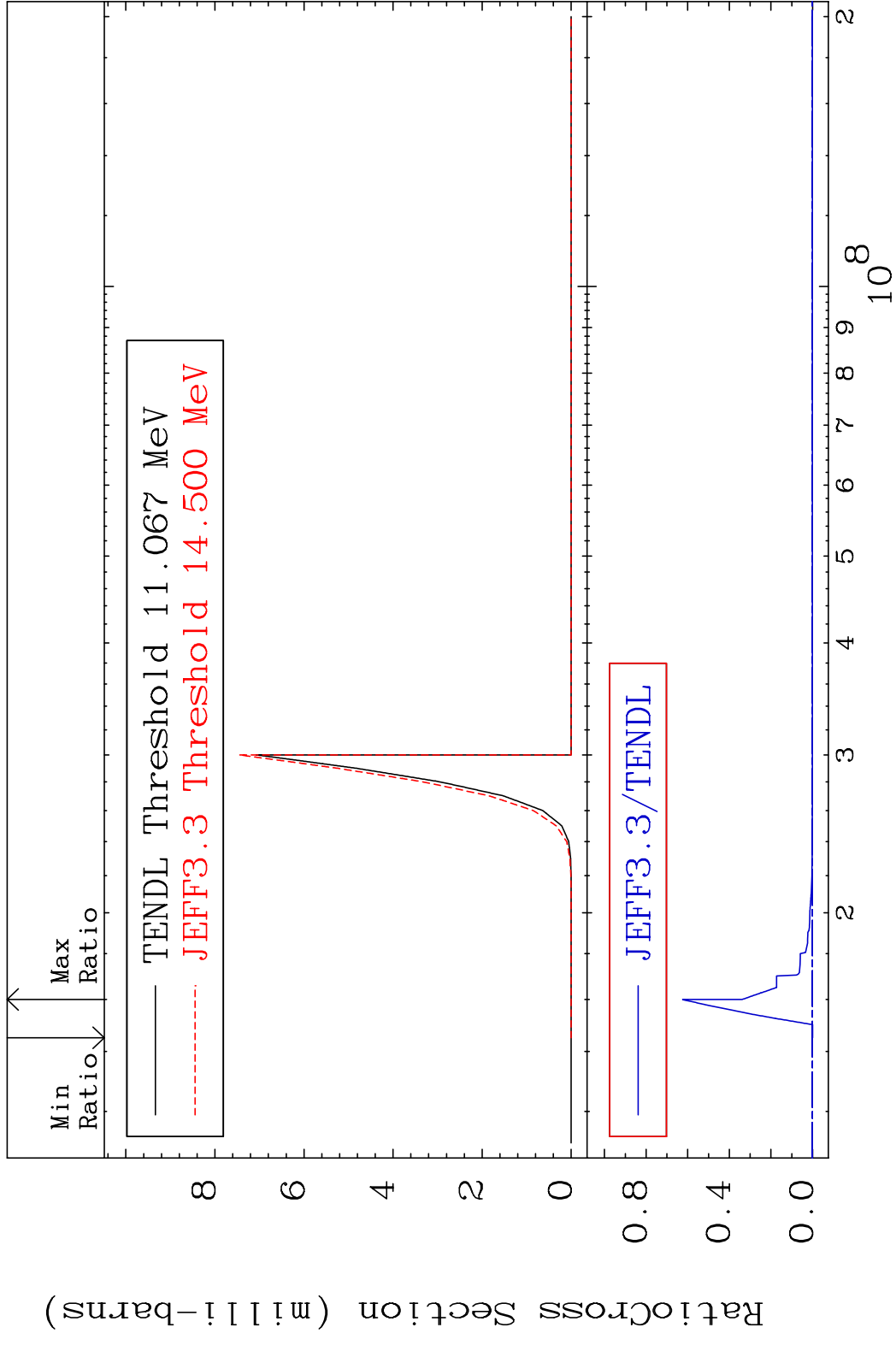


MAT 5837 (n, n') α :56-Ba-136m5 58-Ce-140
 Radionuclide Production Cross Section 9999. %

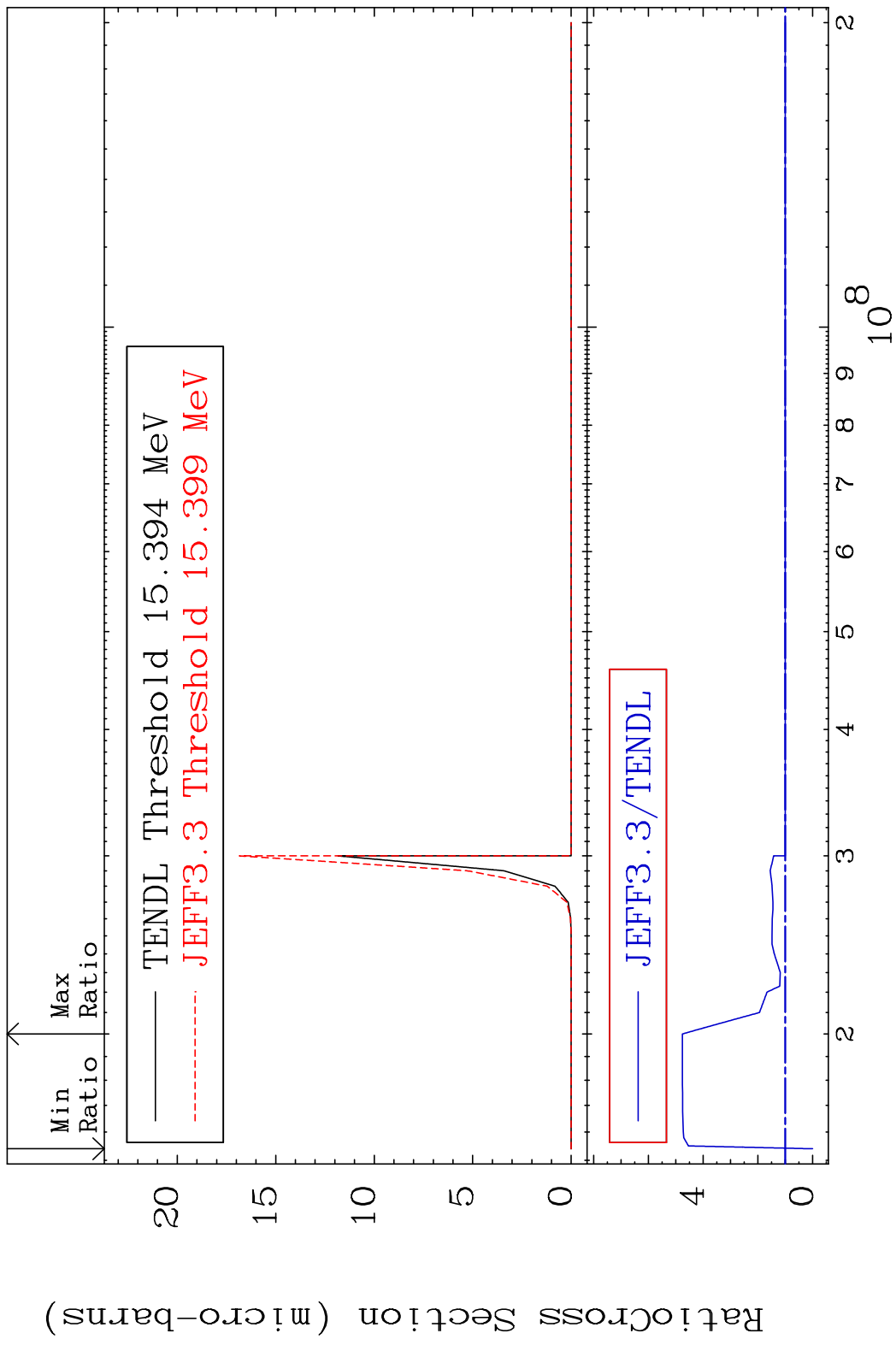


MAT 5837 (n,2n) α :56-Ba-135g 58-Ce-140
 Radionuclide Production Cross Section 100.00 dtd 9999. %

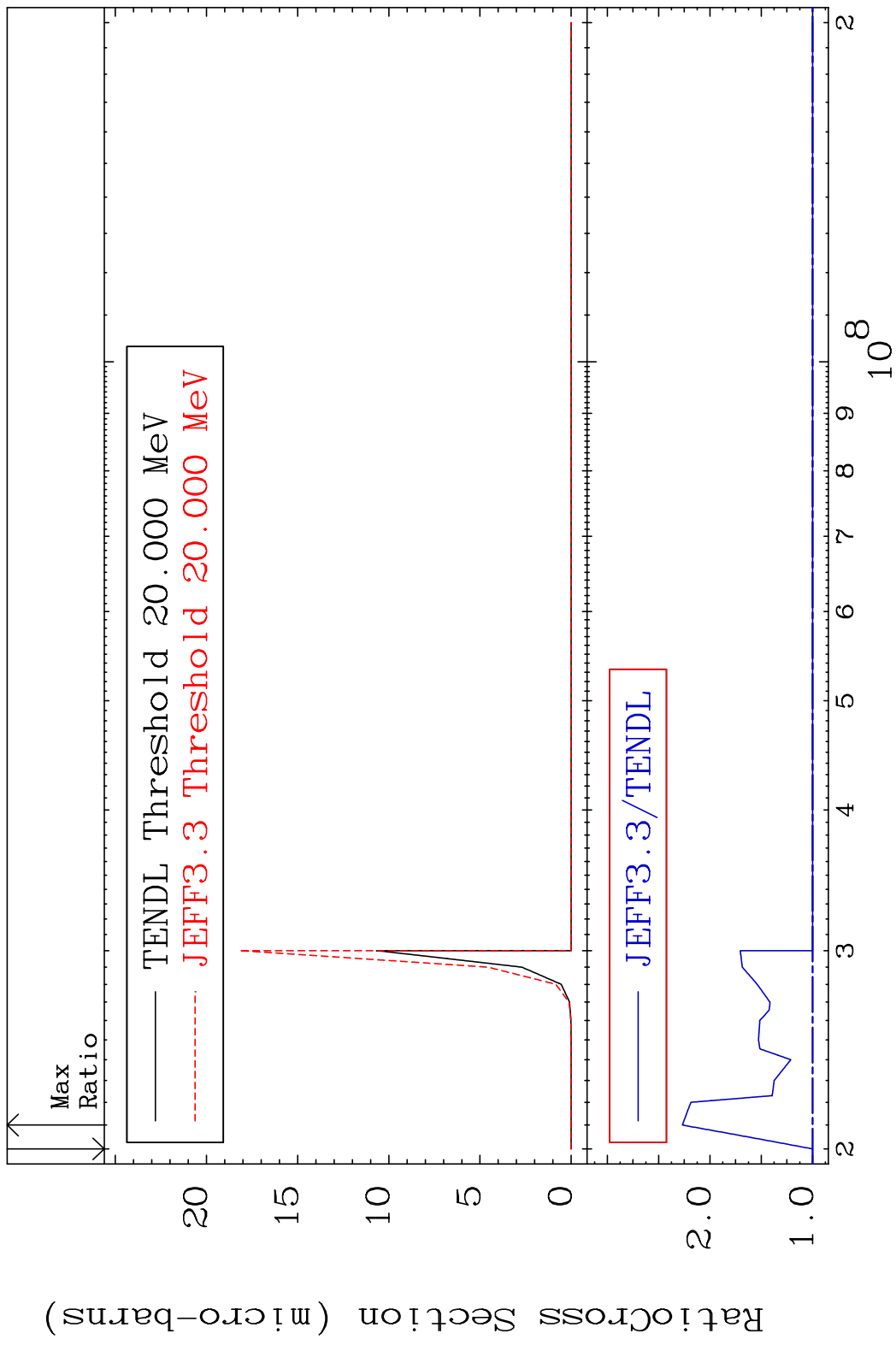




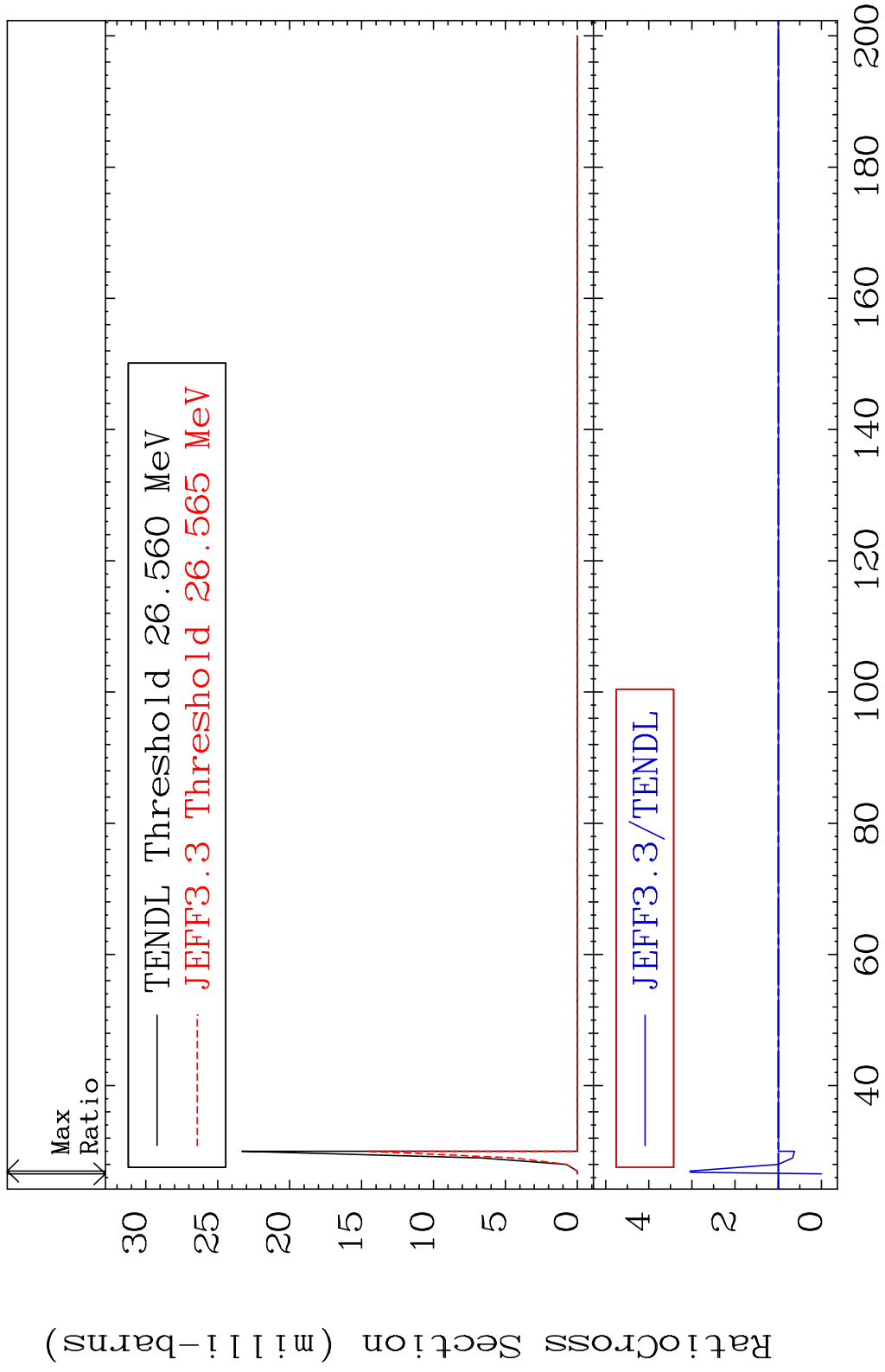
MAT 5837 (n, n') He-3:56-Ba-137g 58-Ce-140
 Radionuclide Production Cross Section 180.01 dth 375.8 %



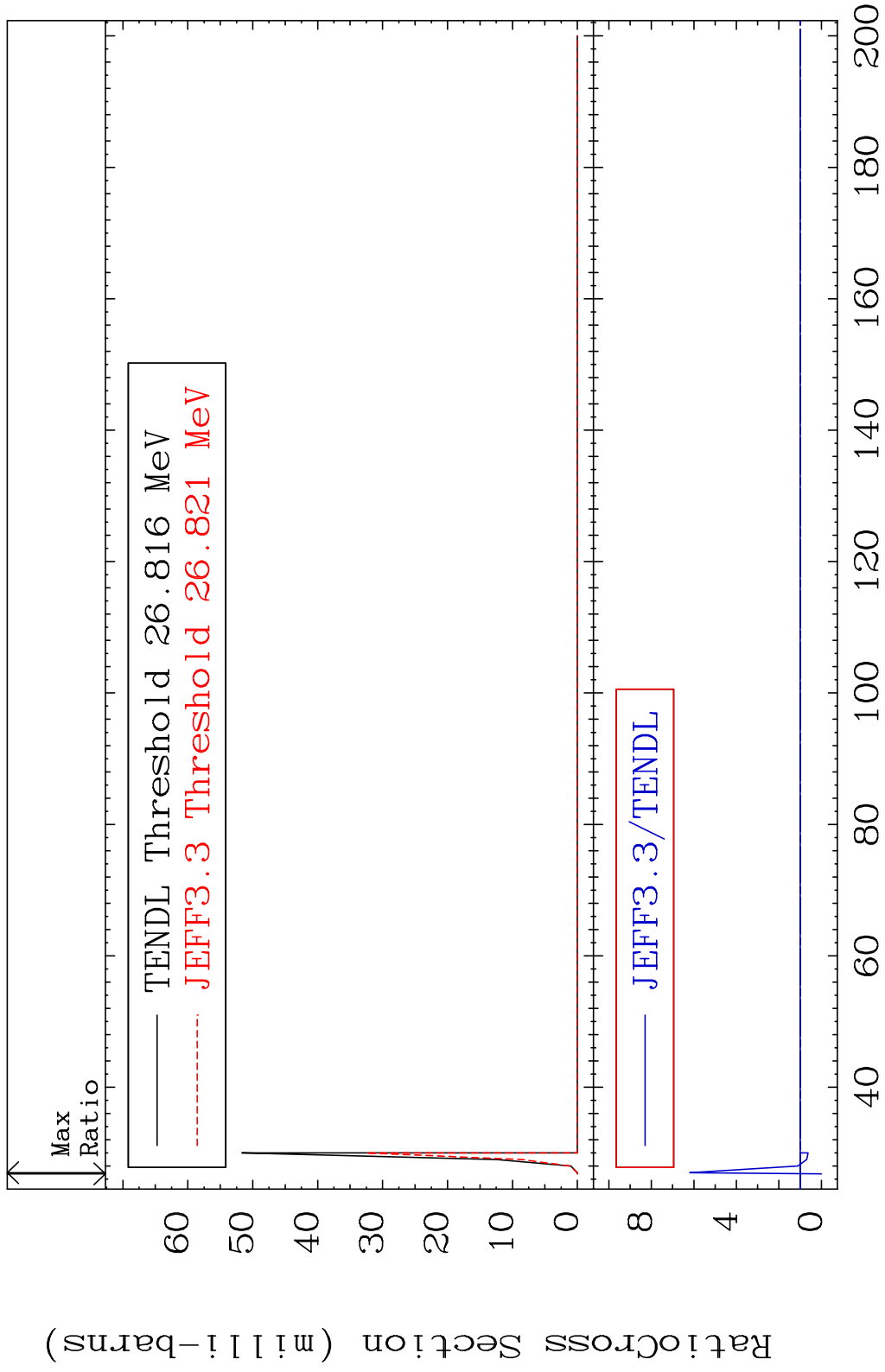
MAT 5837 (n, n') He-3:56-Ba-137m2 58-Ce-140
 Radionuclide Production Cross Section 126.9 %



MAT 5837 (n,4n):58-Ce-137g 58-Ce-140
 Radionuclide Production Cross Section Ratio 205.0 %

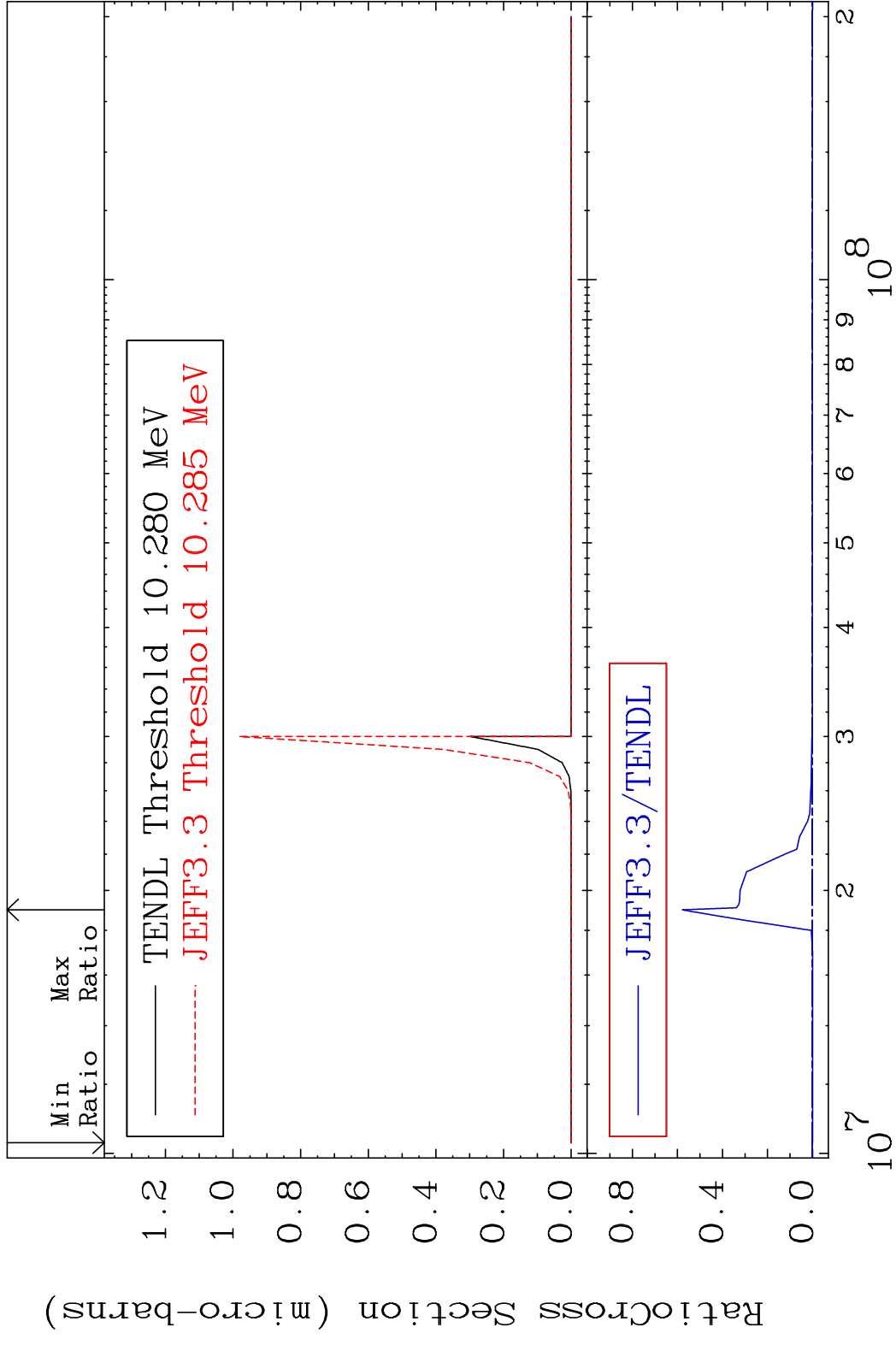


MAT 5837 (n, 4n):58-Ce-137m2 58-Ce-140
 Radionuclide Production Cross Section 180.01 dth 519.3 %



75 Incident Energy (MeV) 58-Ce-140

MAT 5837 (n, n') p α :55-Cs-135g 58-Ce-140
 Radionuclide Production Cross Section Ratio 9999. %

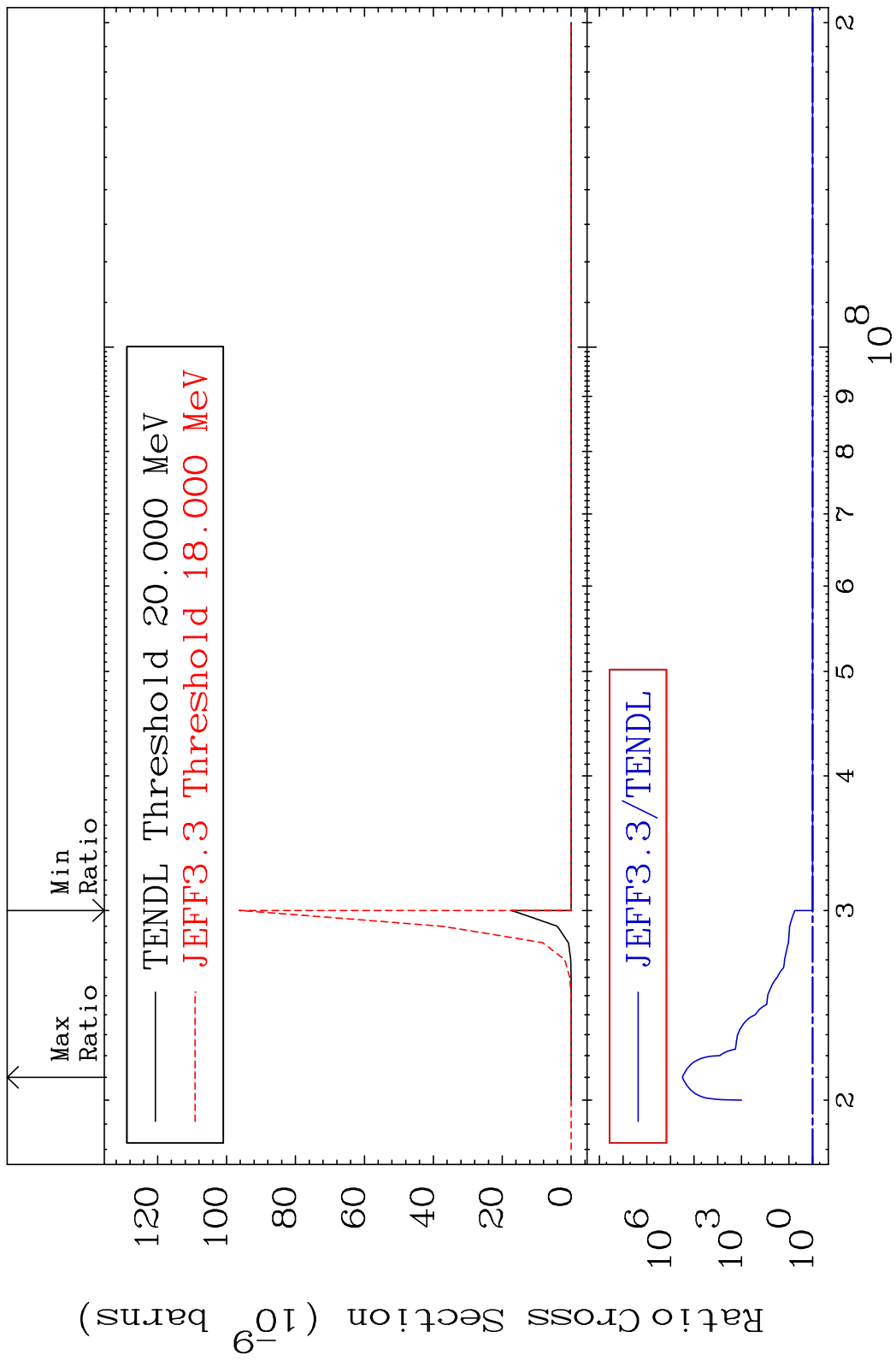


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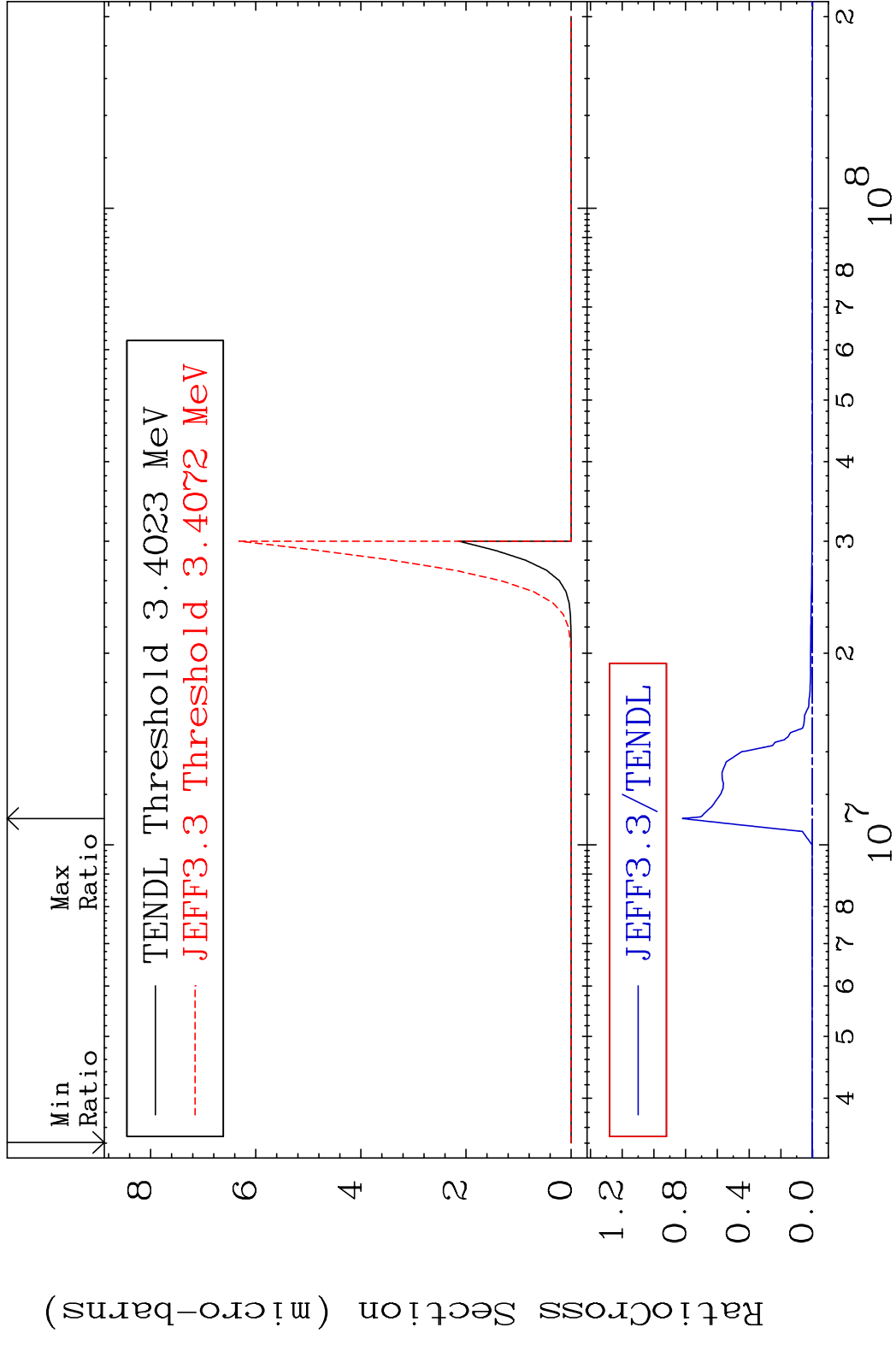
Incident Energy (eV)

58-Ce-140

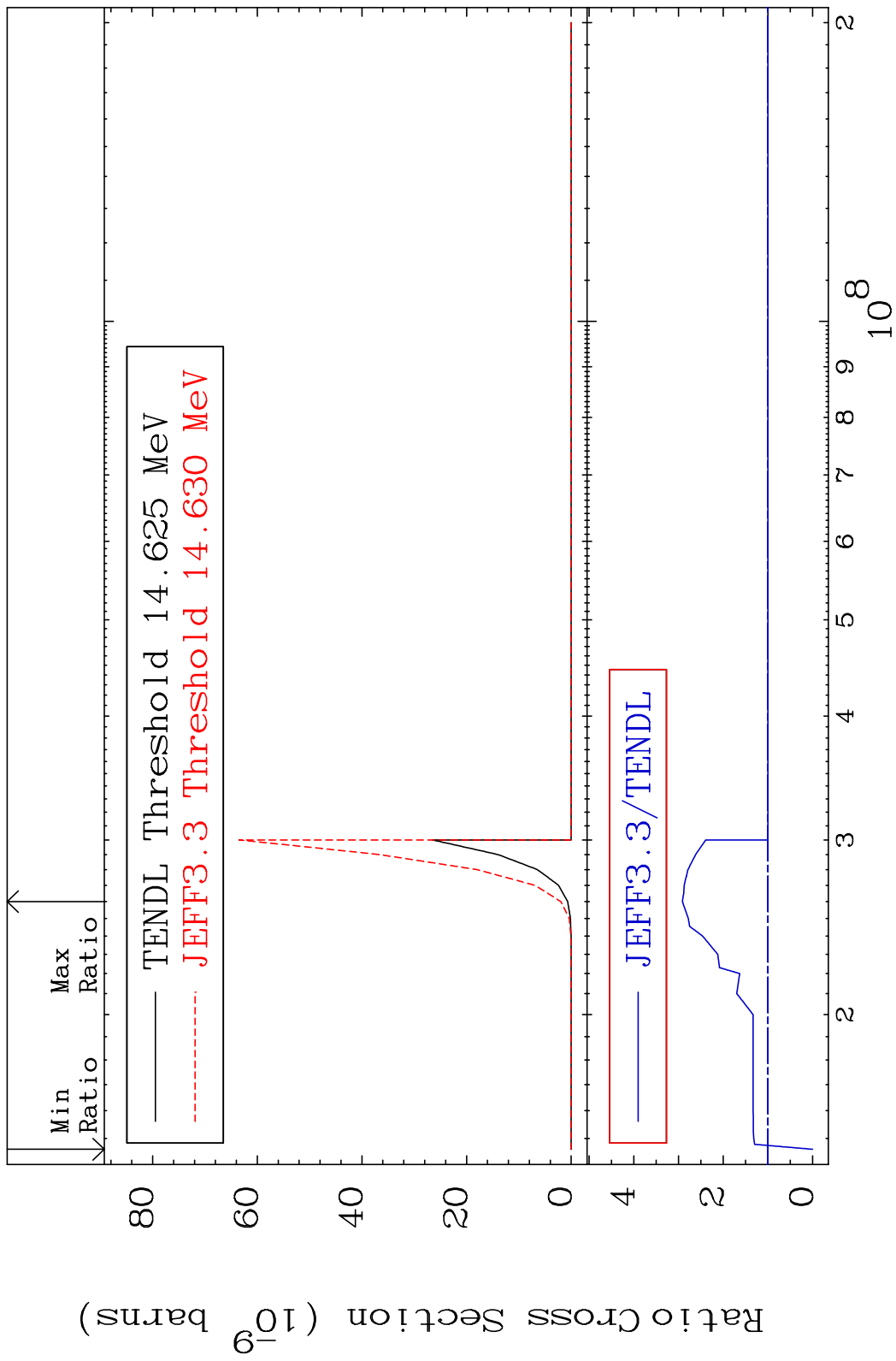
MAT 5837 (n, n') p α:55-Cs-135m10 58-Ce-140
 Radionuclide Production Cross Section, %



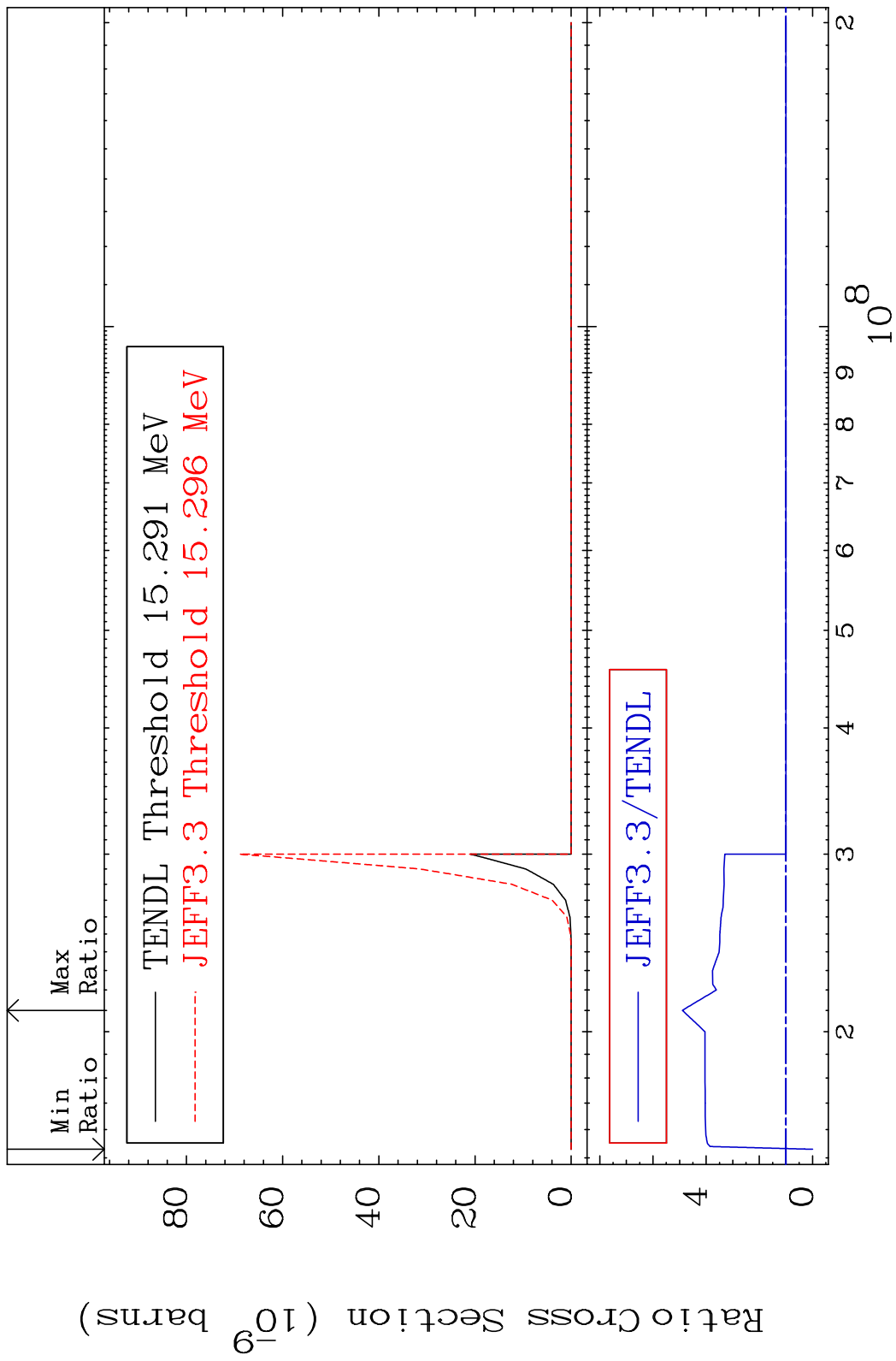
MAT 5837 (n,p) α :55-Cs-136g 58-Ce-140
 Radionuclide Production Cross Section 100.00 dtd 9999. %



MAT 5837 (n,p) t:56-Ba-137g 58-Ce-140
 Radionuclide Production Cross Section 180.0 dth 191.4 %



MAT 5837 (n, p) t:56-Ba-137m2 58-Ce-140
 Radionuclide Production Cross Section 180.01 dth 389.5 %



MAT 5837 (n, d) α :55-Cs-135g 58-Ce-140
 Radionuclide Production Cross Section (barn) 9999. %

