

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

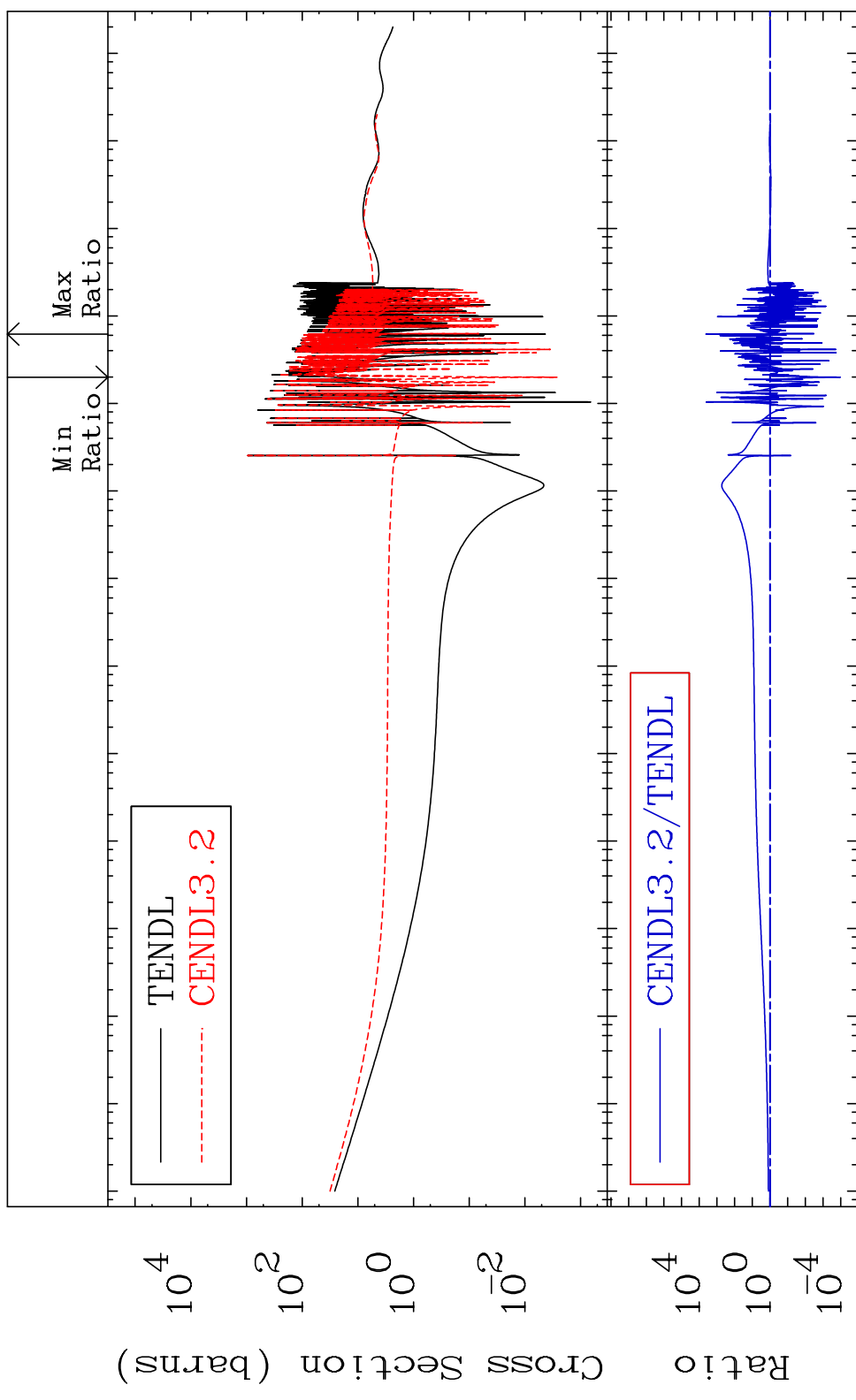
MAT 5837

Total

58-Ce-140

Cross Section

-99.99 To 9999. %



1

Incident Energy (eV)

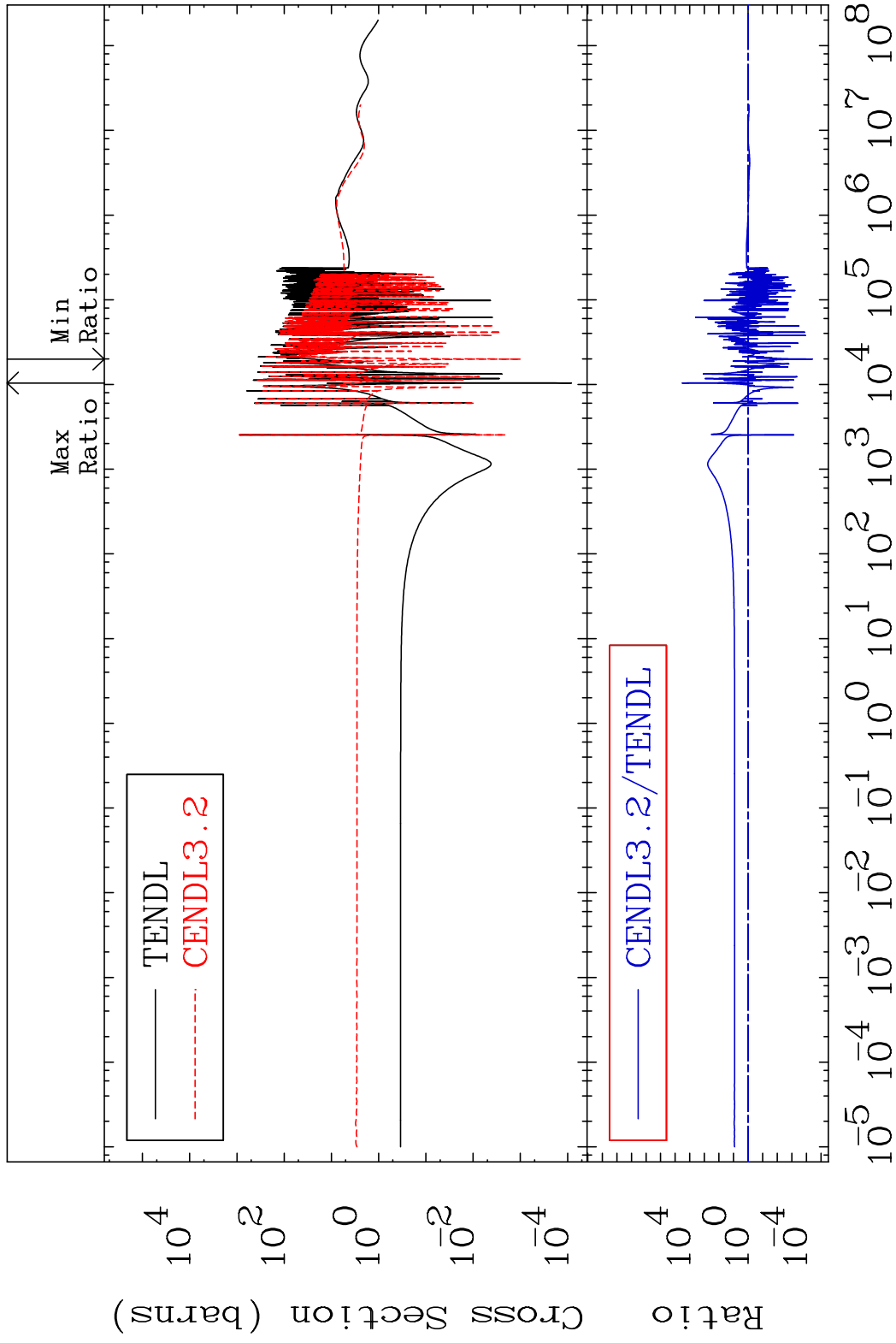
58-Ce-140

MAT 5837

Elastic

58-Ce-140

Cross Section -100.0 To 9999. %



2

Incident Energy (eV)

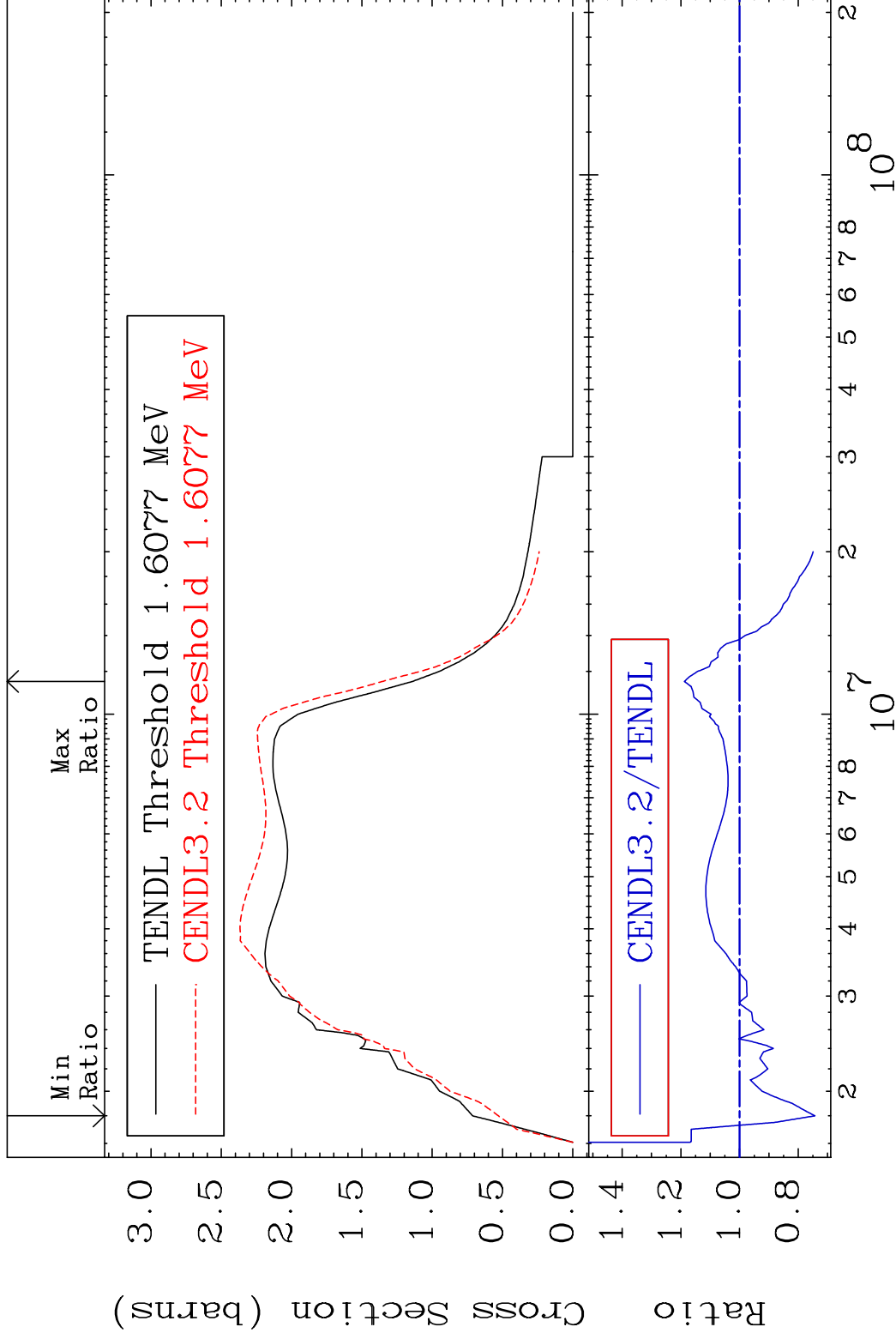
58-Ce-140

MAT 5837

Inelastic

58-Ce-140

Cross Section -25.67 To 18.83 %



3

Incident Energy (eV)

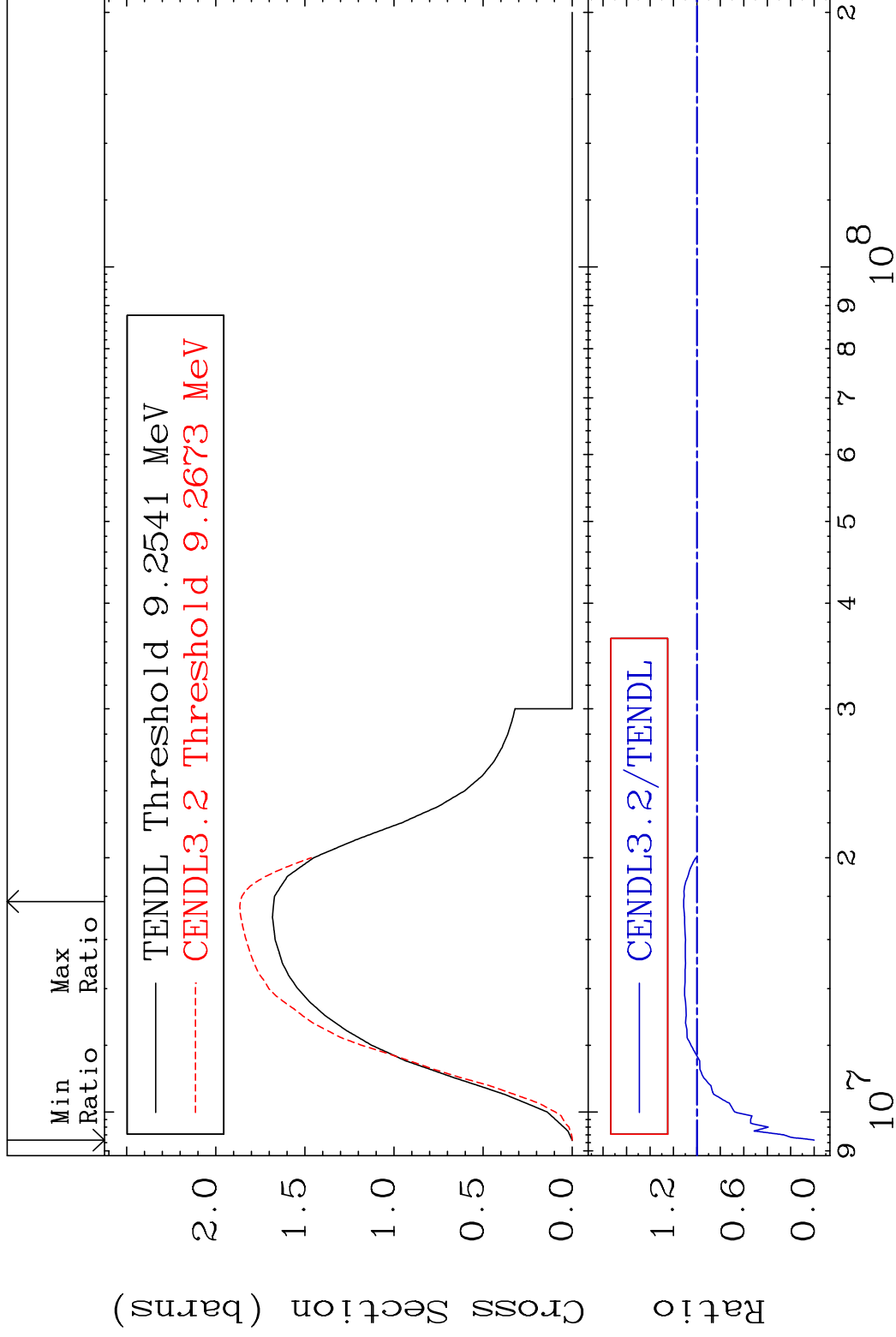
58-Ce-140

MAT 5837

(n,2n)

58-Ce-140

Cross Section -100.0 To 11.30 %



4

Incident Energy (eV)

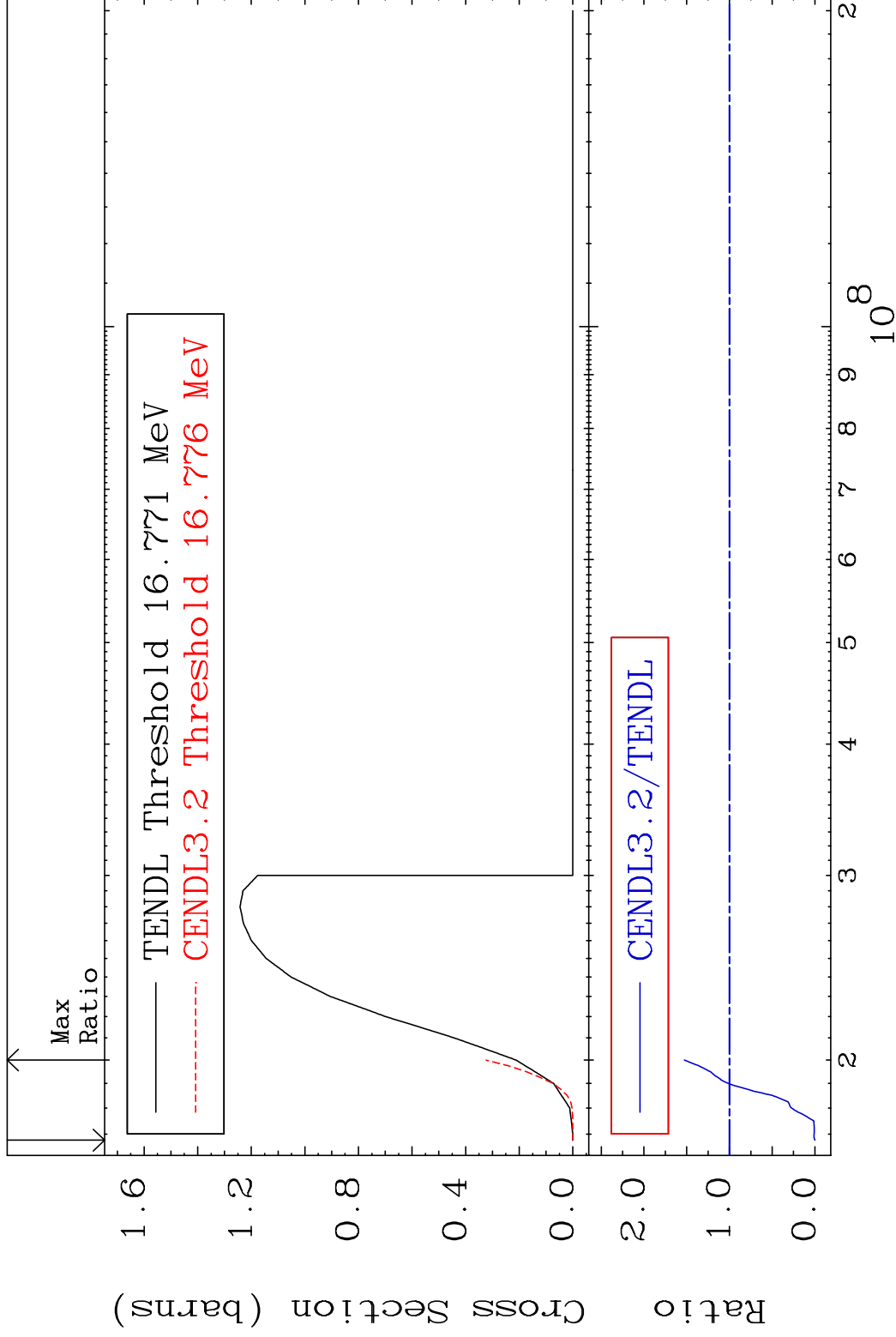
58-Ce-140

MAT 5837

(n,3n)

58-Ce-140

Cross Section -100.0 To 52.78 %



5

Incident Energy (eV)

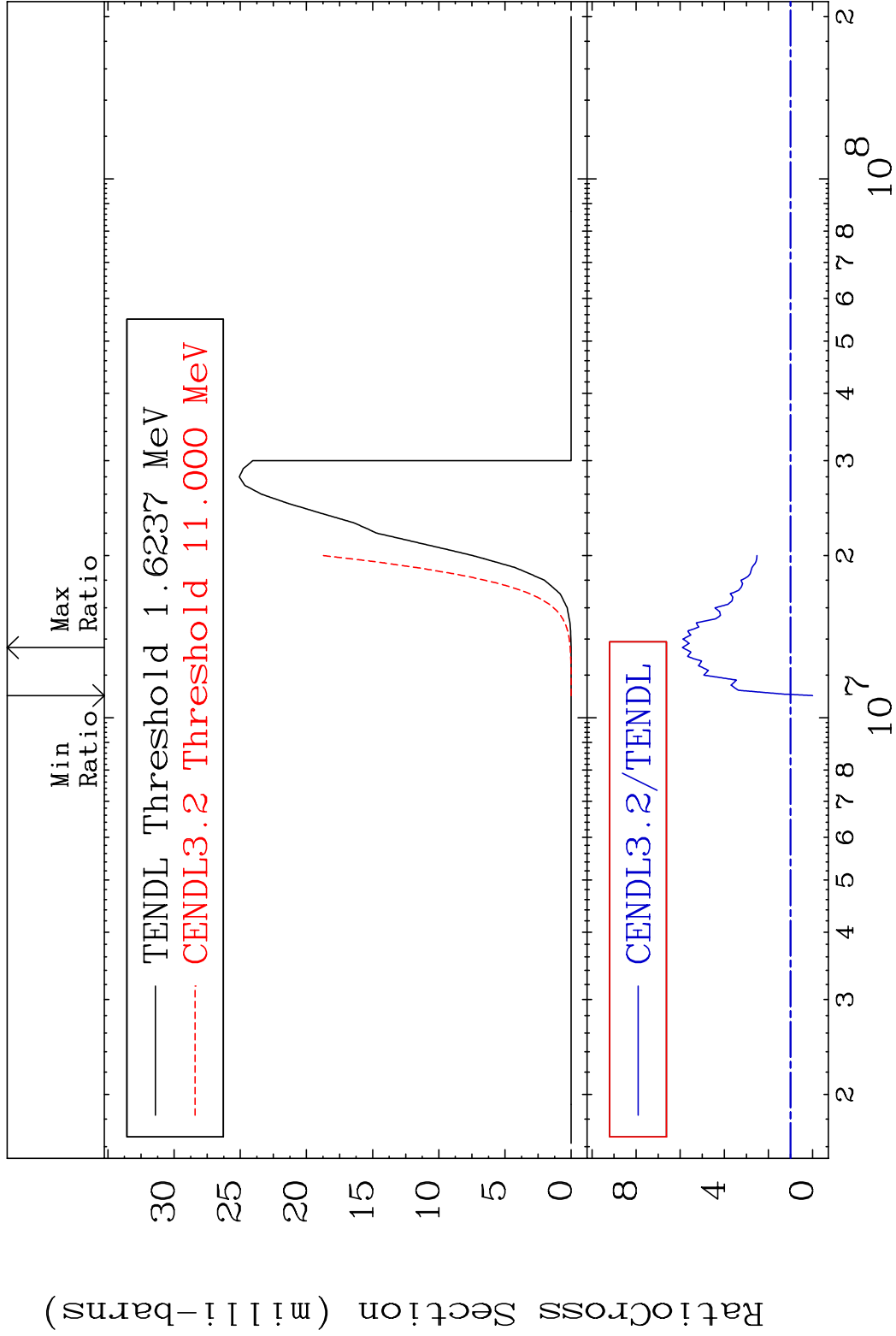
58-Ce-140

MAT 5837

(n, n') α

58-Ce-140

Cross Section -100.0 To 490.3 %



6

Incident Energy (eV)

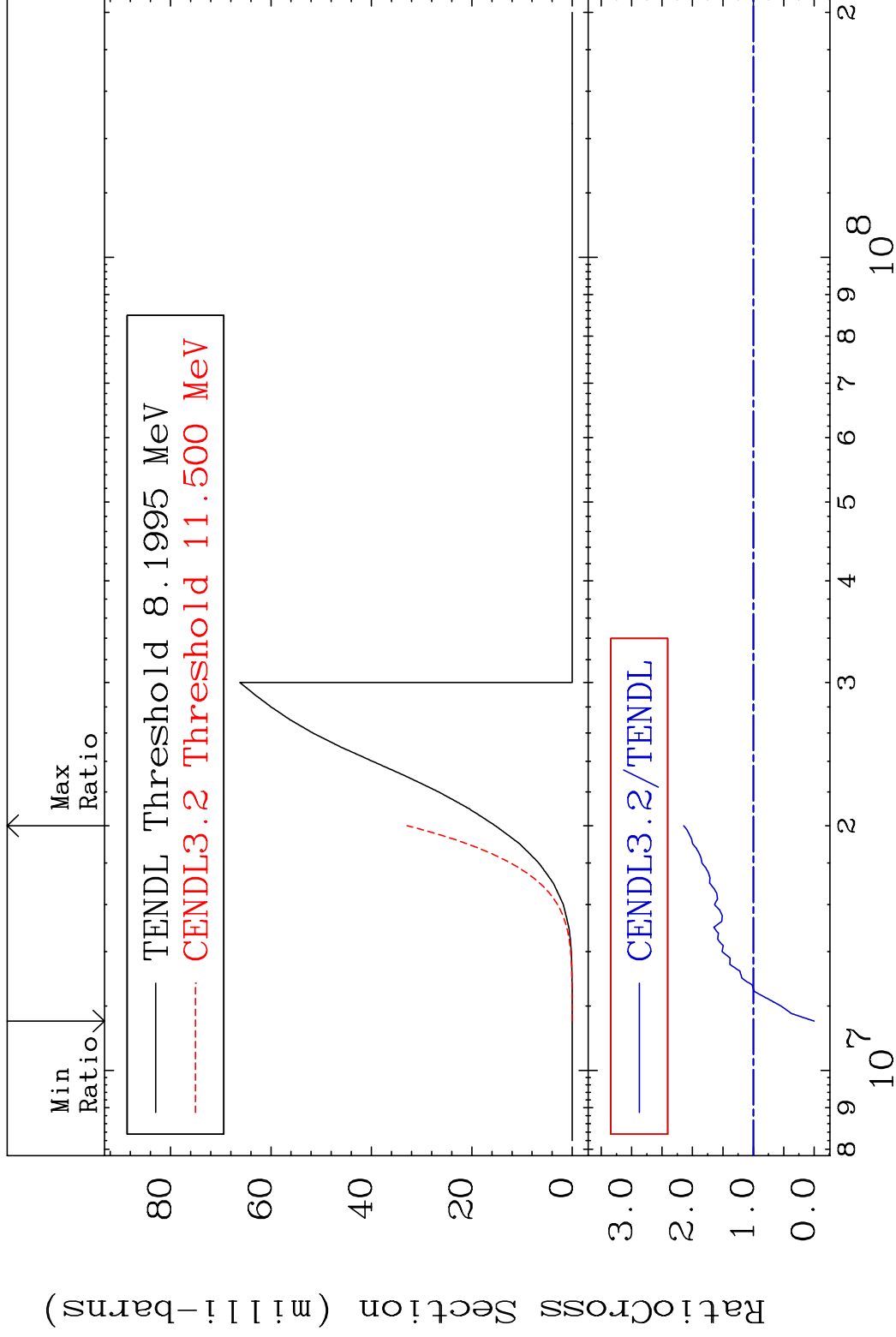
58-Ce-140

MAT 5837

(n, n') p

58-Ce-140

Cross Section -100.0 To 114.5 %



7

Incident Energy (eV)

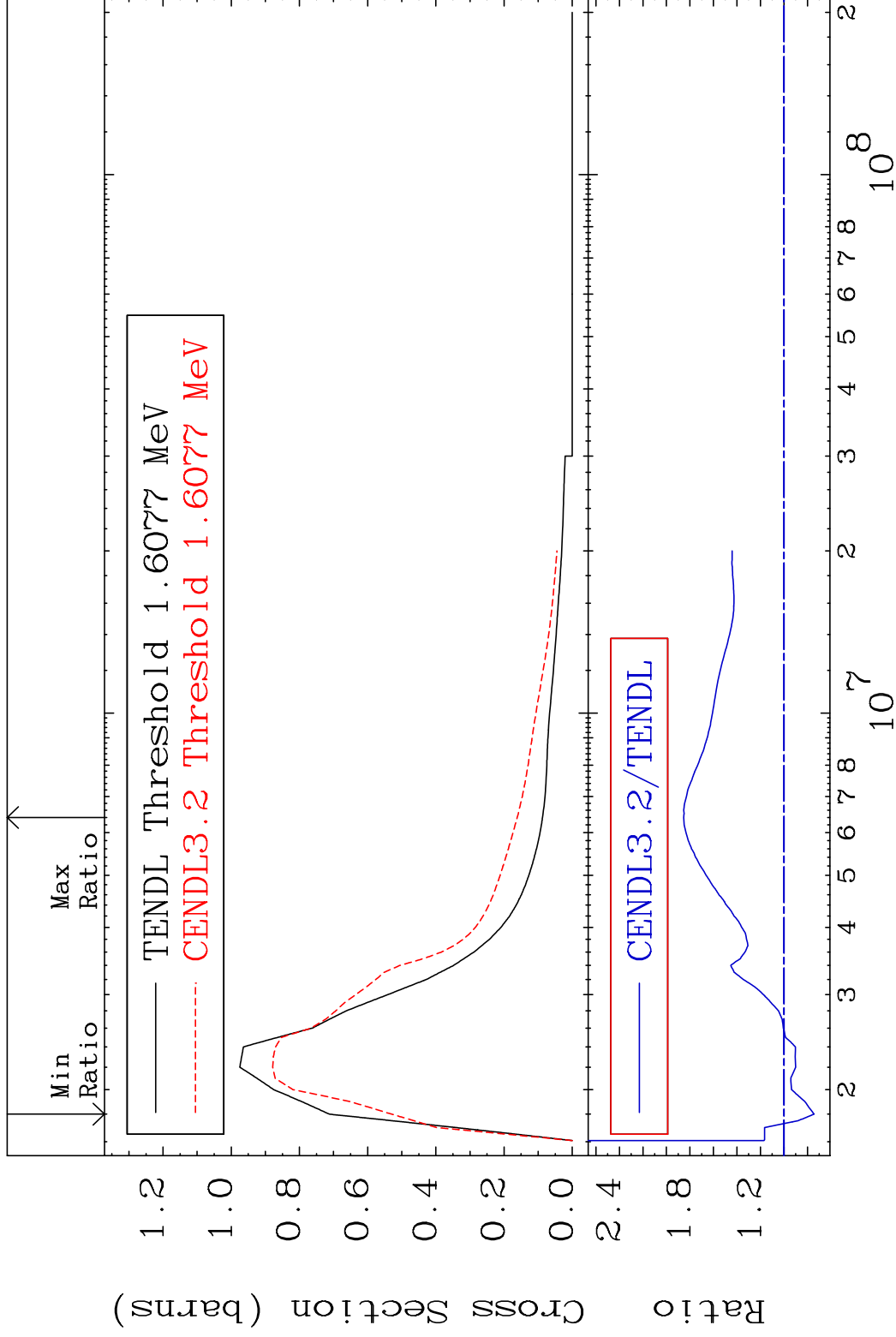
58-Ce-140

MAT 5837

MT= 51 (n,n') Level

58-Ce-140

Cross Section -25.67 To 85.33 %

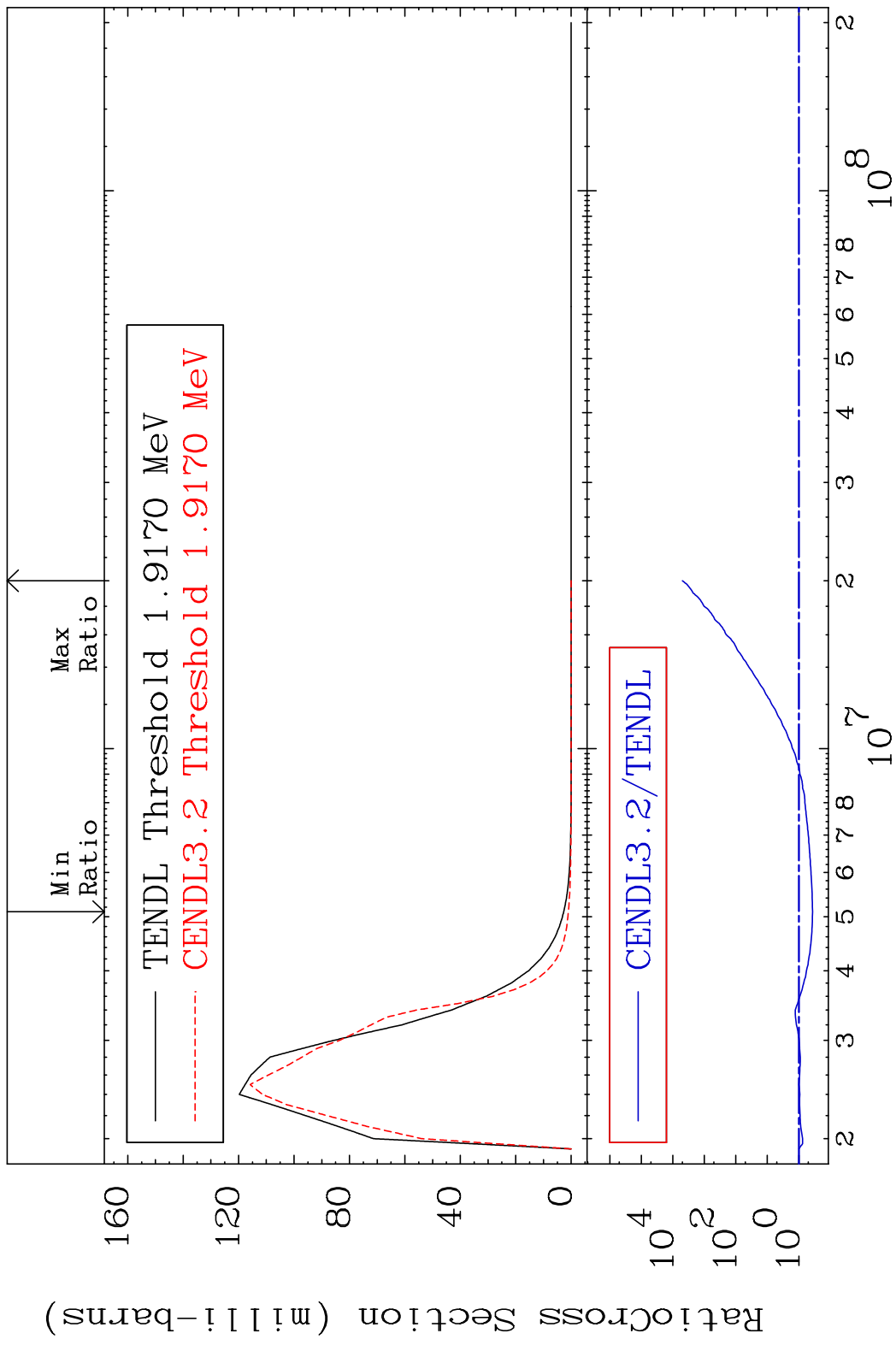


8

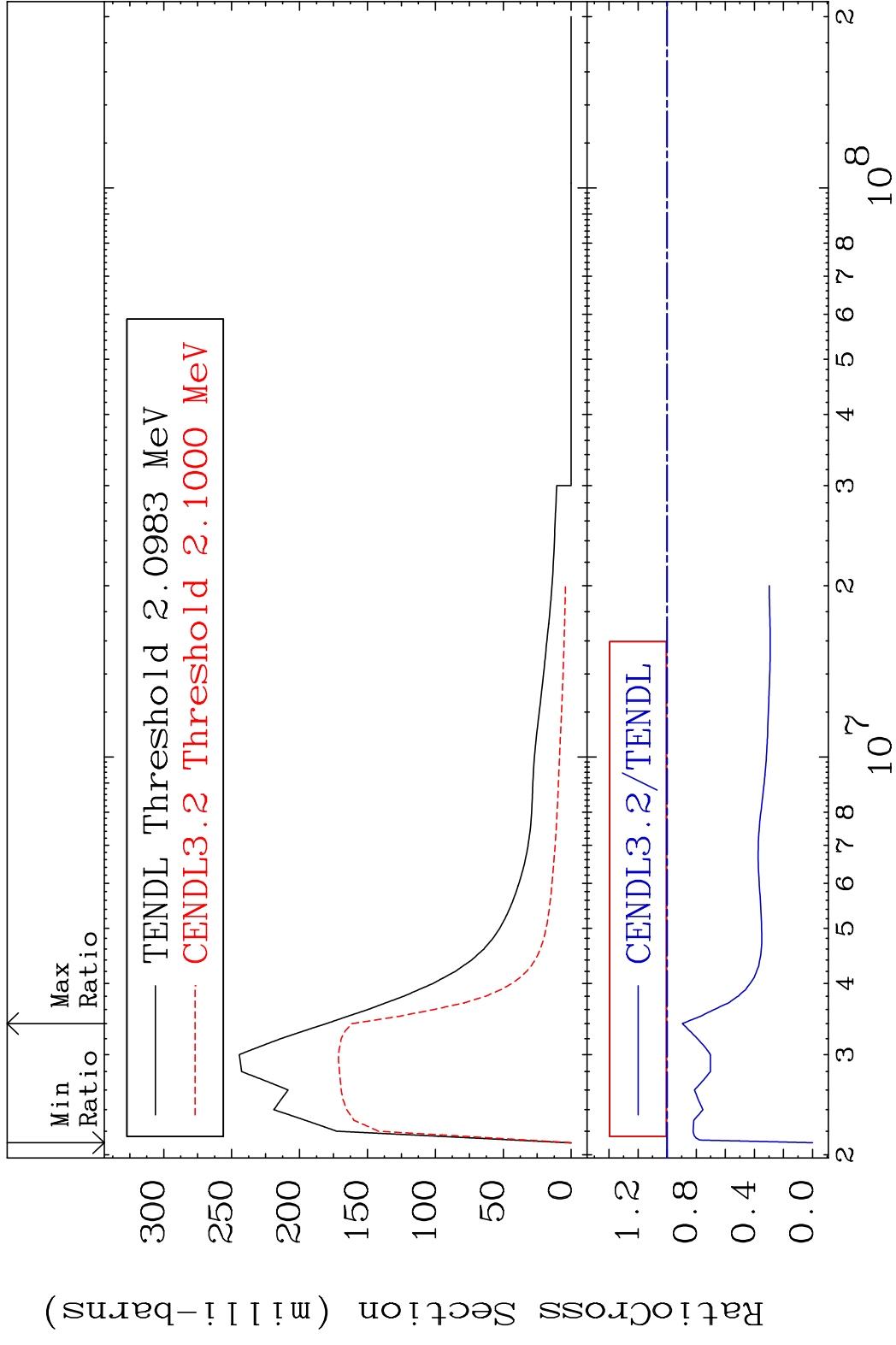
Incident Energy (eV)

58-Ce-140

MAT 5837 MT= 52 (n, n') Level 58-Ce-140
 Cross Section -63.38 To 9999. %

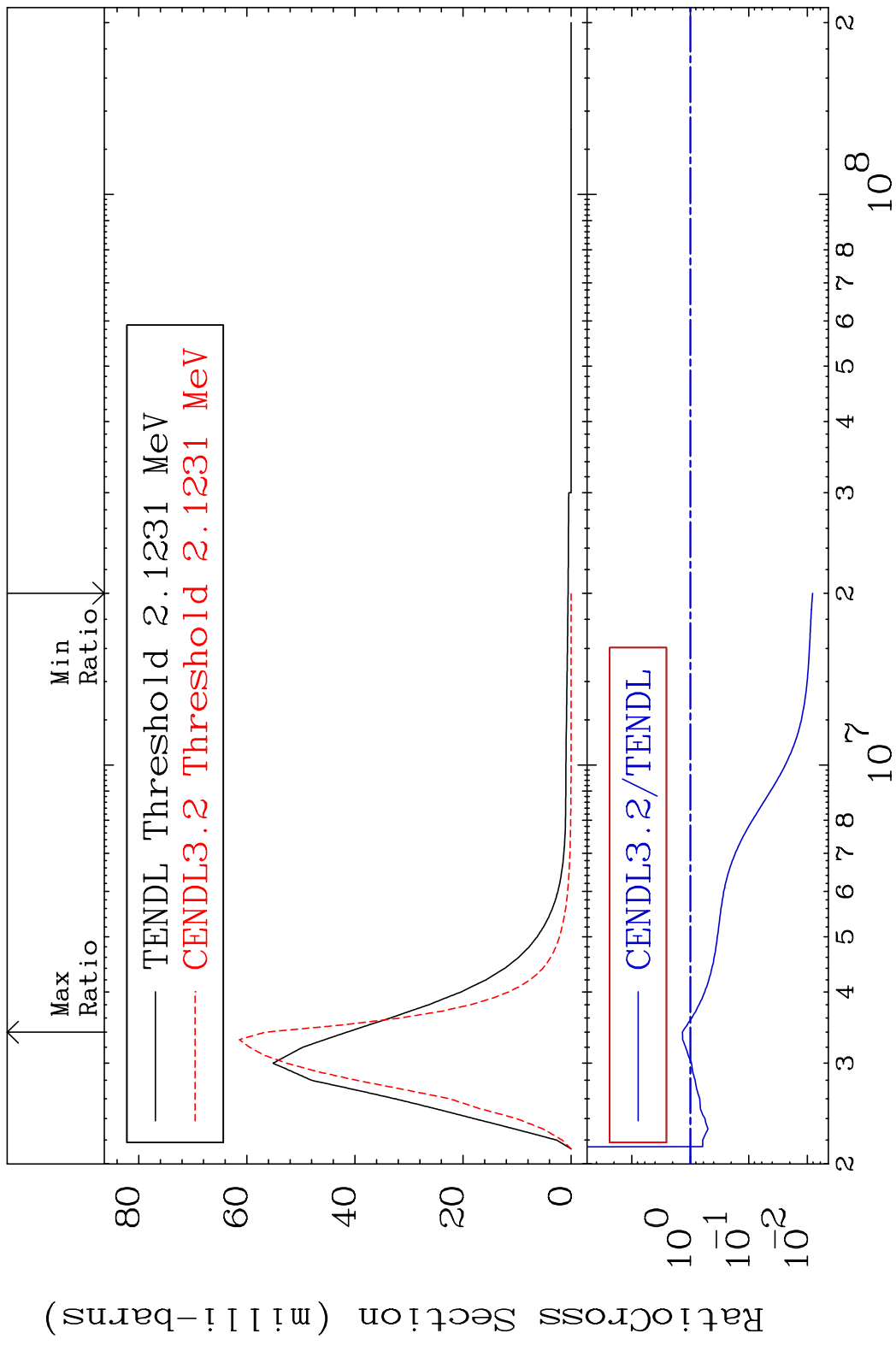


MAT 5837 MT= 53 (n,n') Level 58-Ce-140
 Cross Section -100.0 To -10.45%

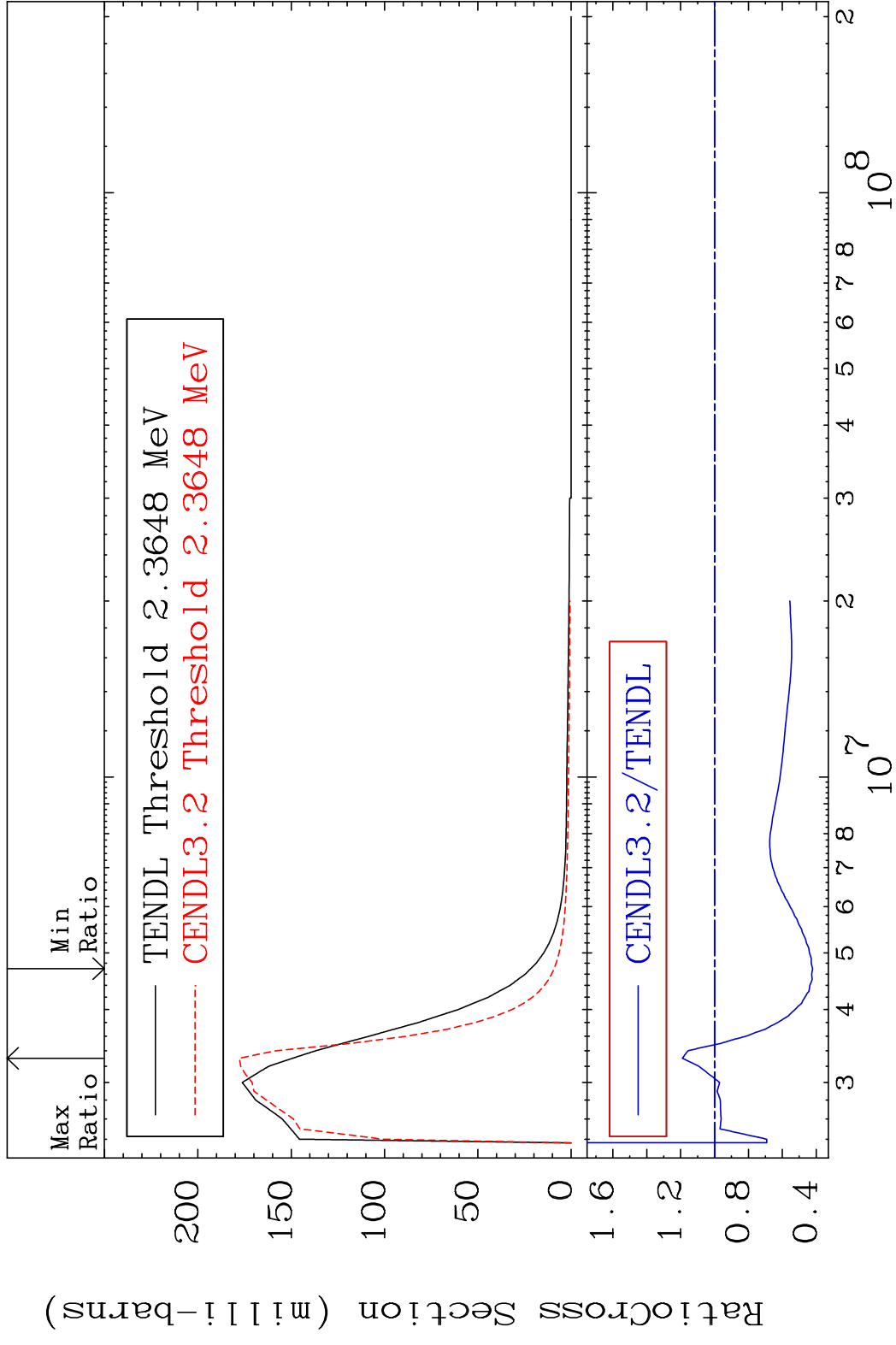


10 Incident Energy (eV) 58-Ce-140

MAT 5837 MT= 54 (n, n') Level 58-Ce-140
 Cross Section -99.18 To 36.48 %

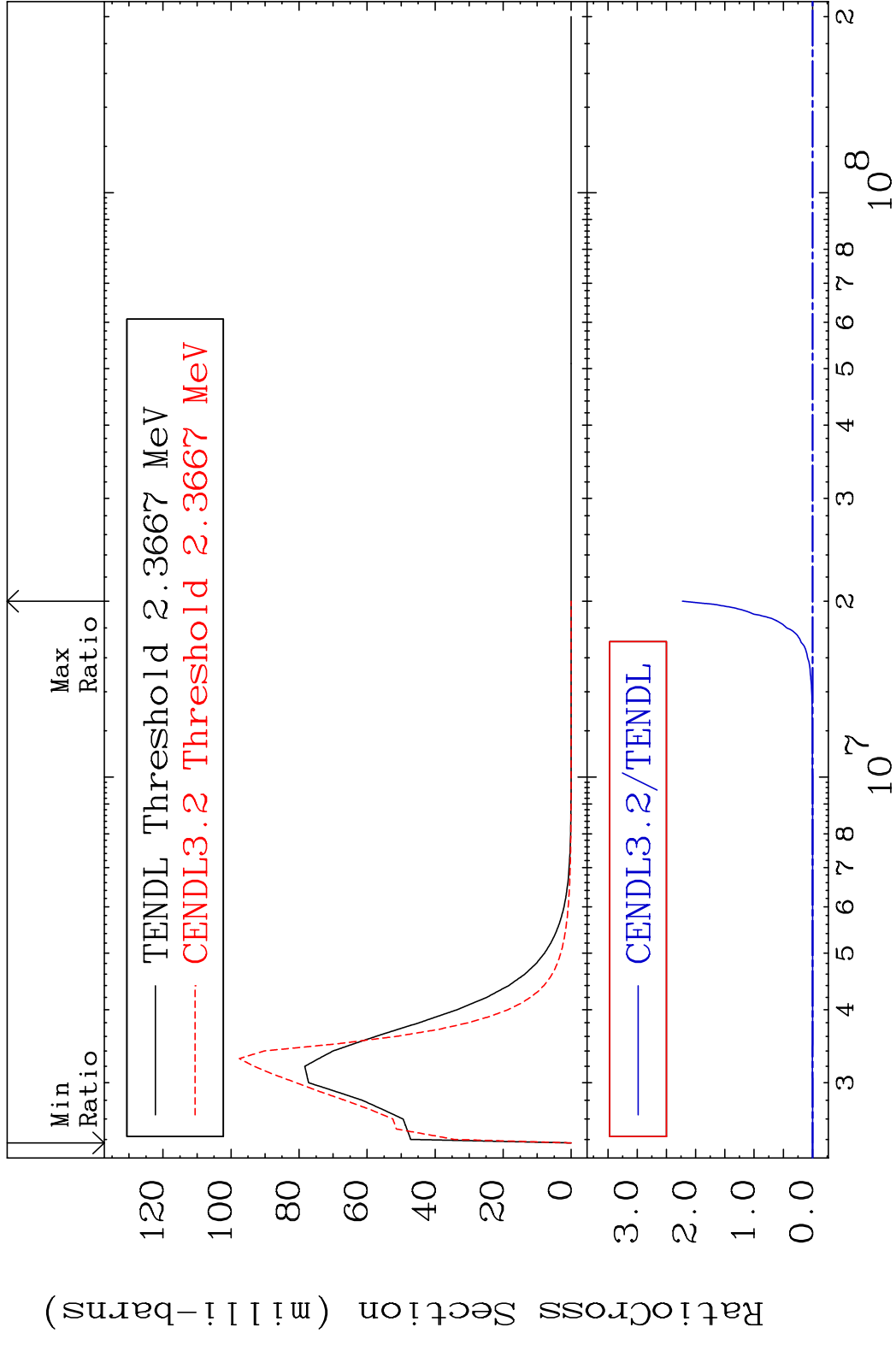


MAT 5837 MT= 55 (n,n') Level 58-Ce-140
 Cross Section -57.85 To 18.98 %

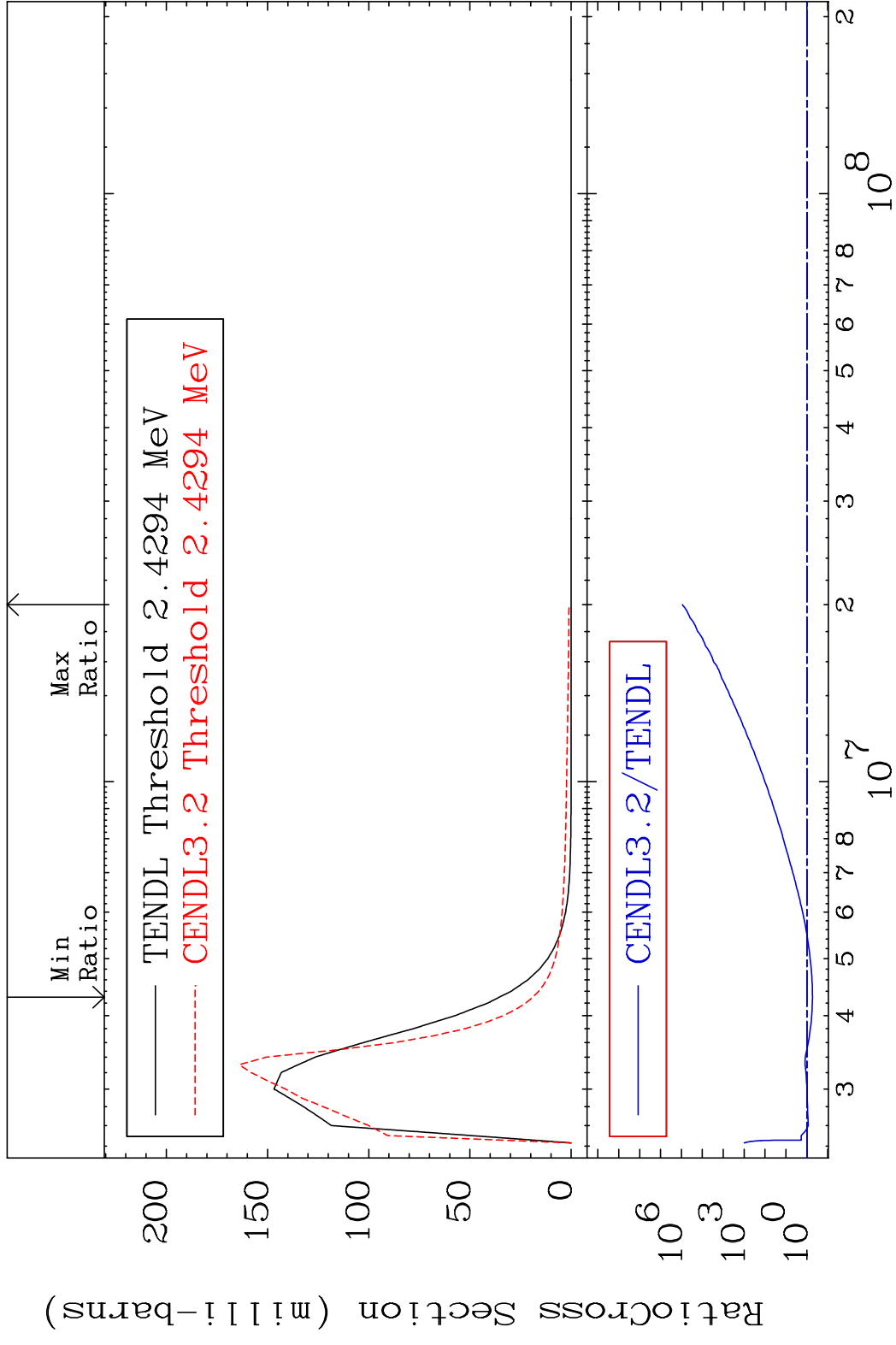


12 Incident Energy (eV) 58-Ce-140

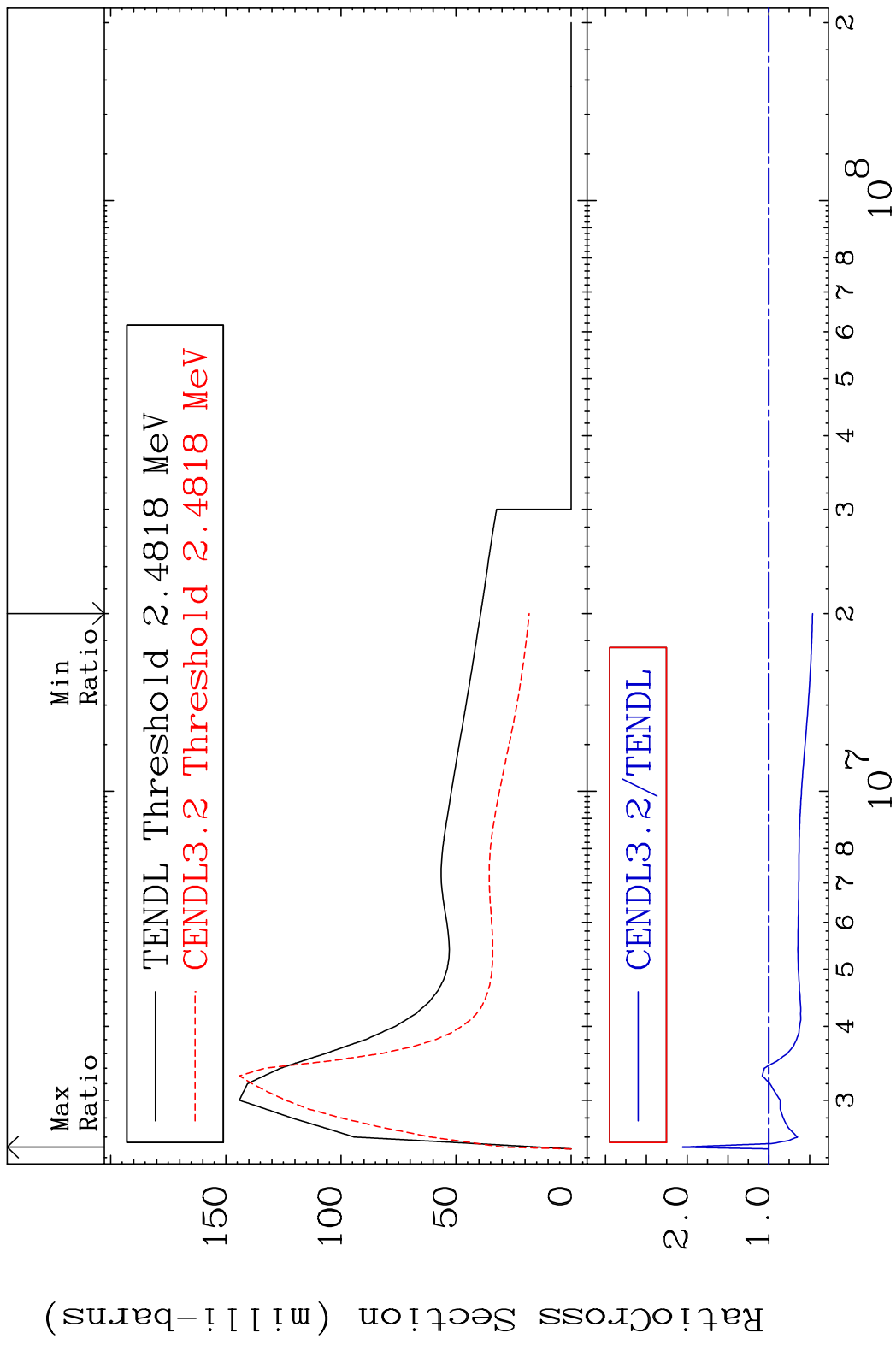
MAT 5837 MT= 56 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 9999. %



MAT 5837 MT= 57 (n, n') Level 58-Ce-140
 Cross Section -46.82 To 9999. %

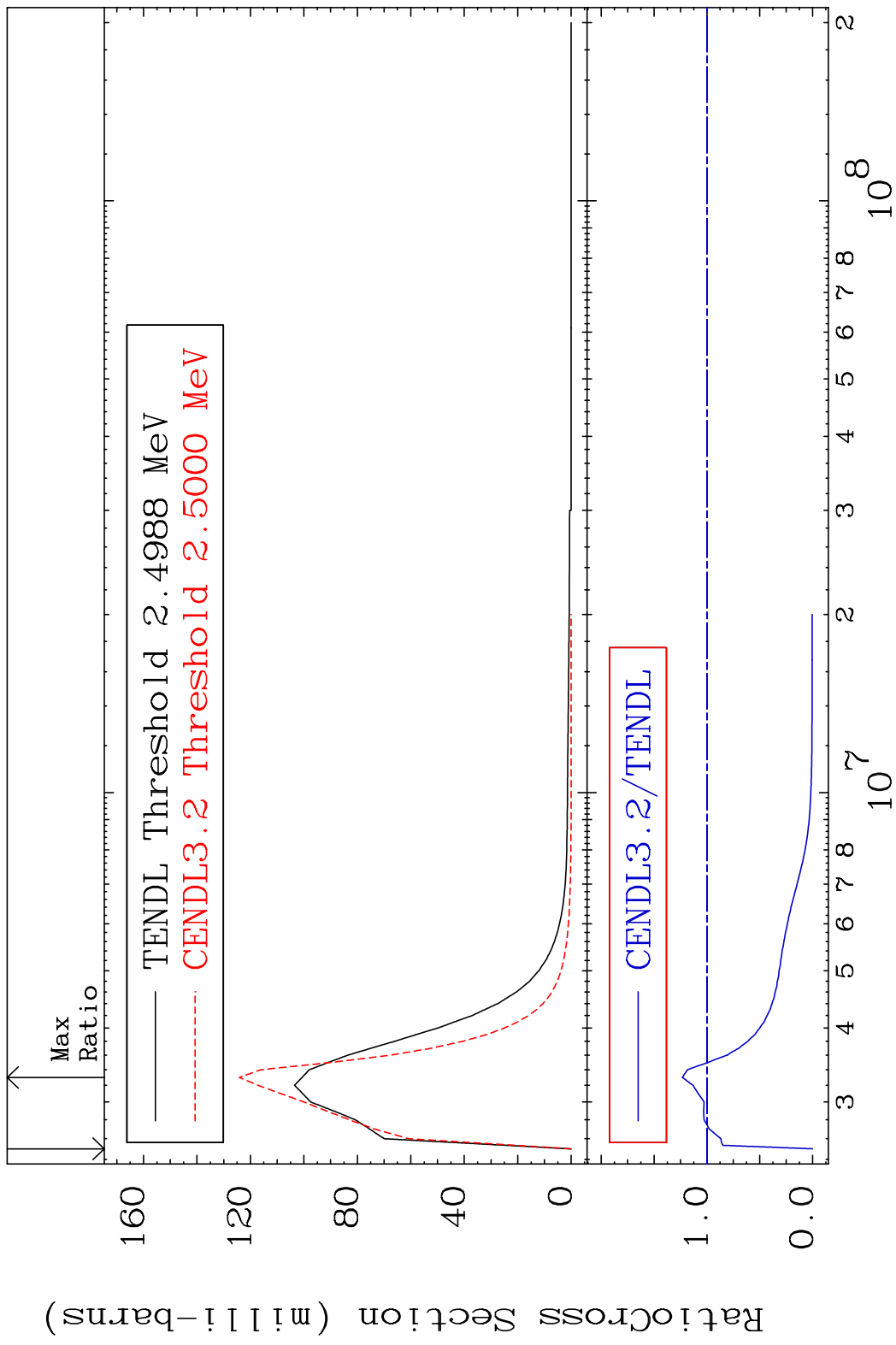


MAT 5837 MT= 58 (n,n') Level 58-Ce-140
 Cross Section -53.66 To 105.8 %



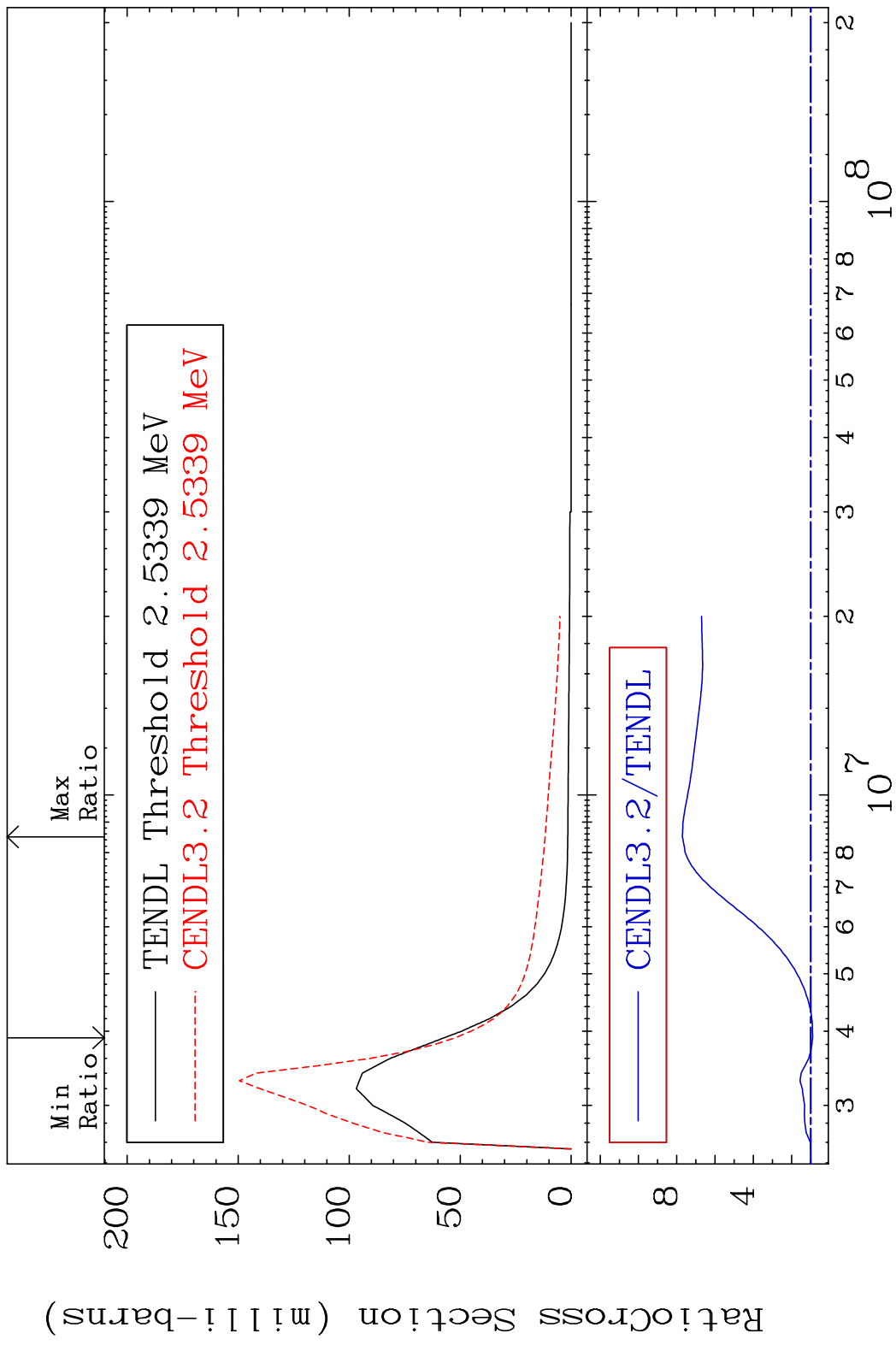
15 58-Ce-140

MAT 5837 MT= 59 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 23.26 %



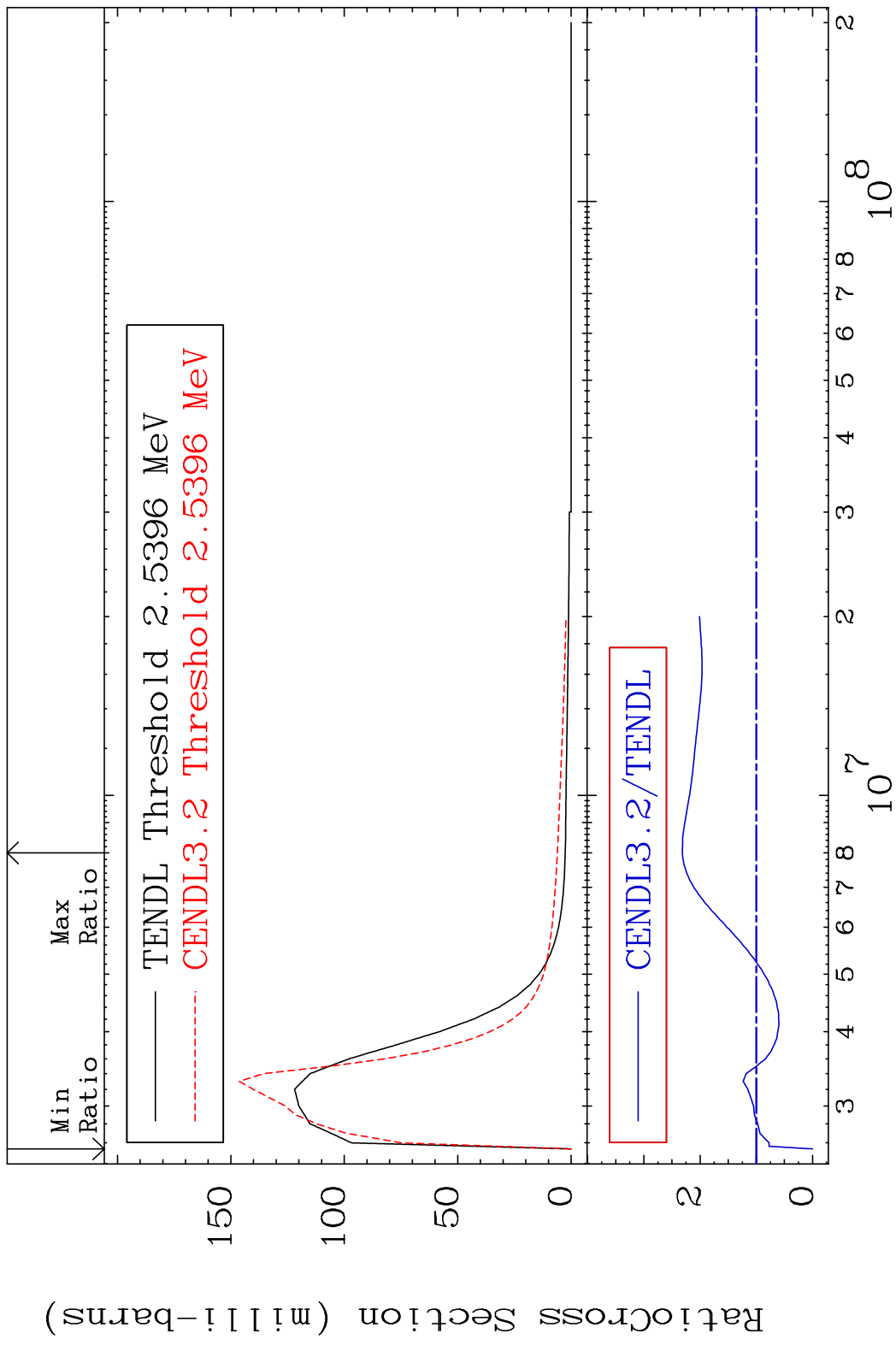
16 58-Ce-140

MAT 5837 MT= 60 (n,n') Level 58-Ce-140
 Cross Section -8.985 To 670.9 %



17 Incident Energy (eV) 58-Ce-140

MAT 5837 MT= 61 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 131.5 %



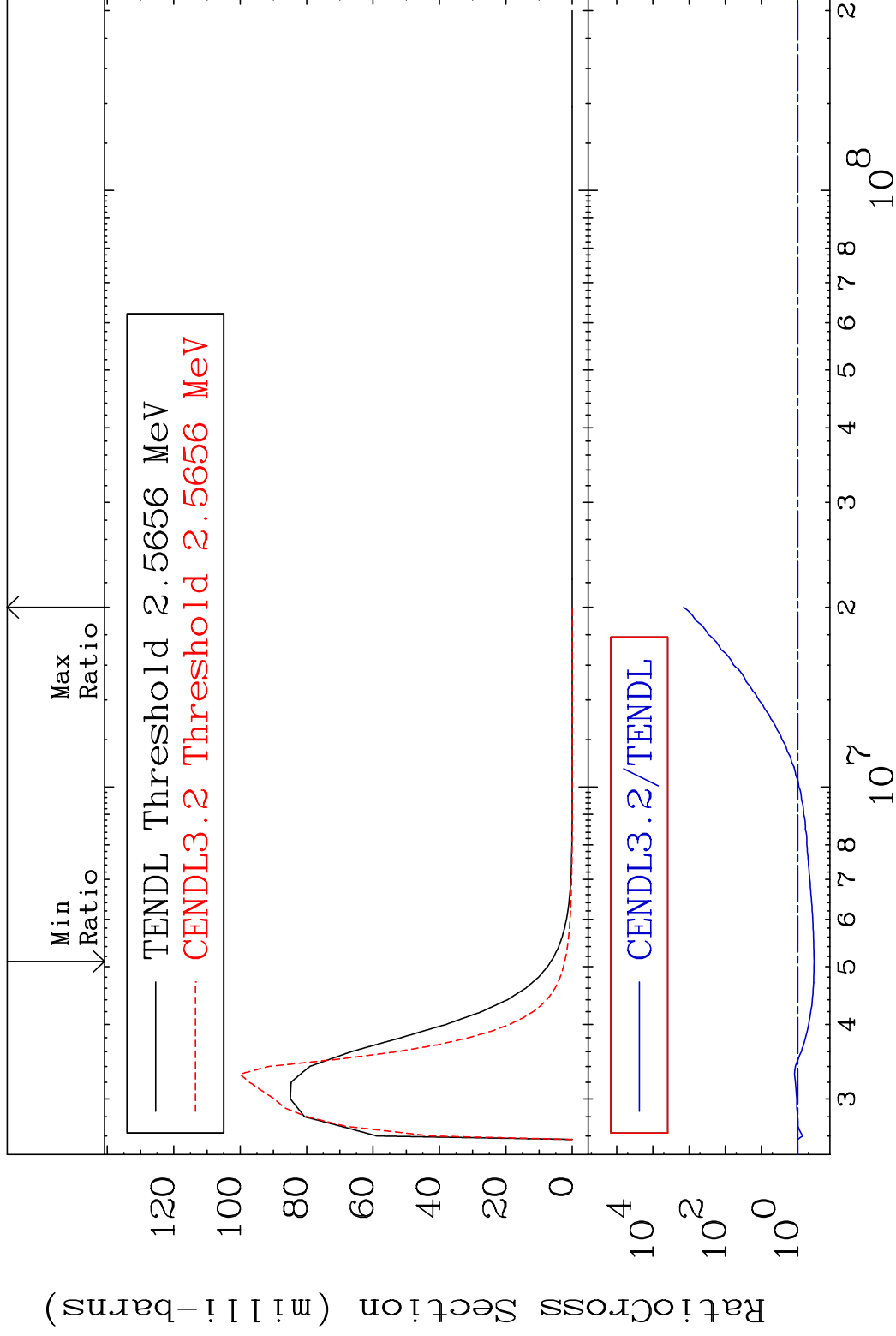
18 58-Ce-140

MAT 5837

MT= 62 (n, n') Level

58-Ce-140

Cross Section -64.97 To 9999. %

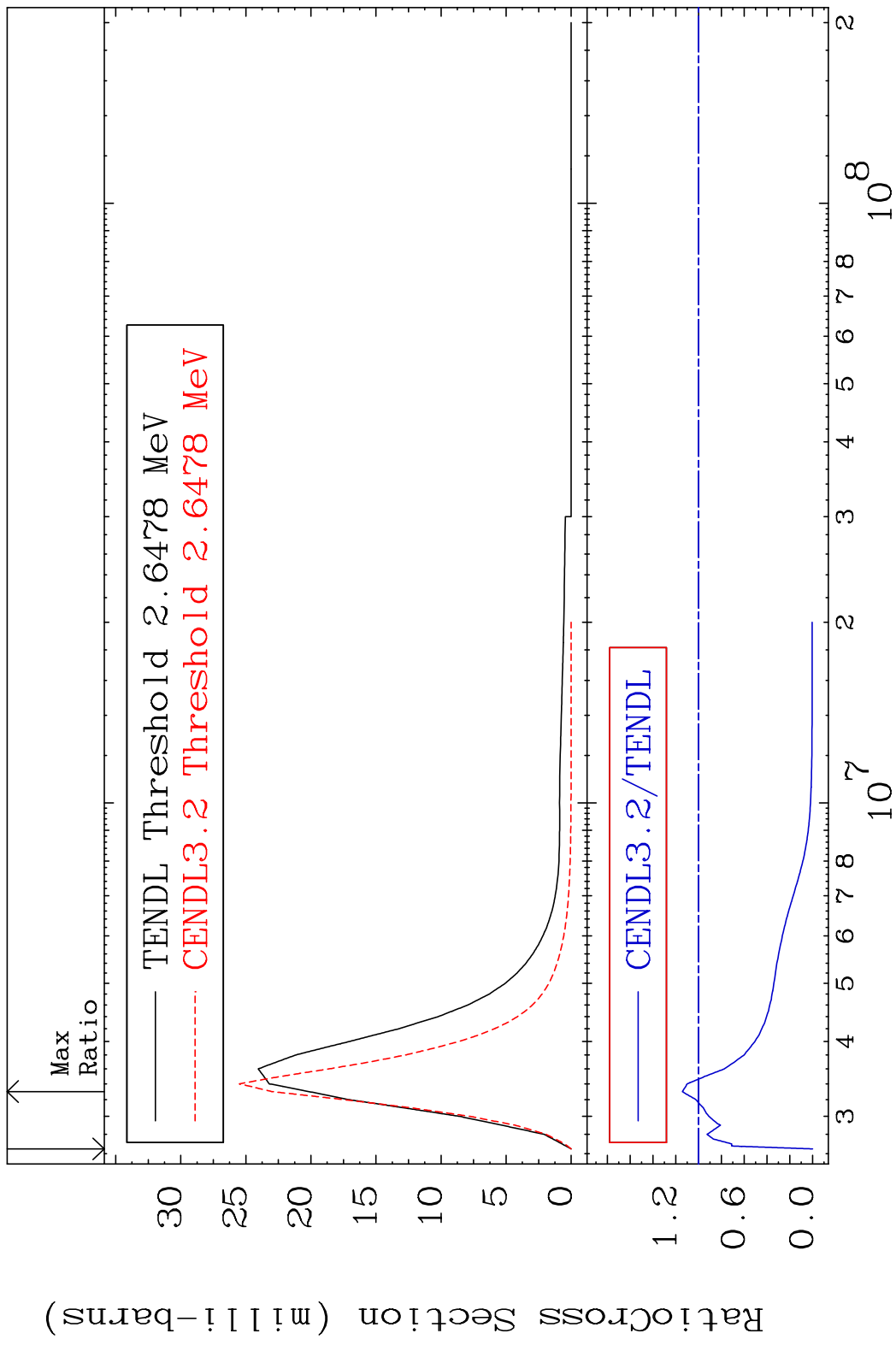


19

Incident Energy (eV)

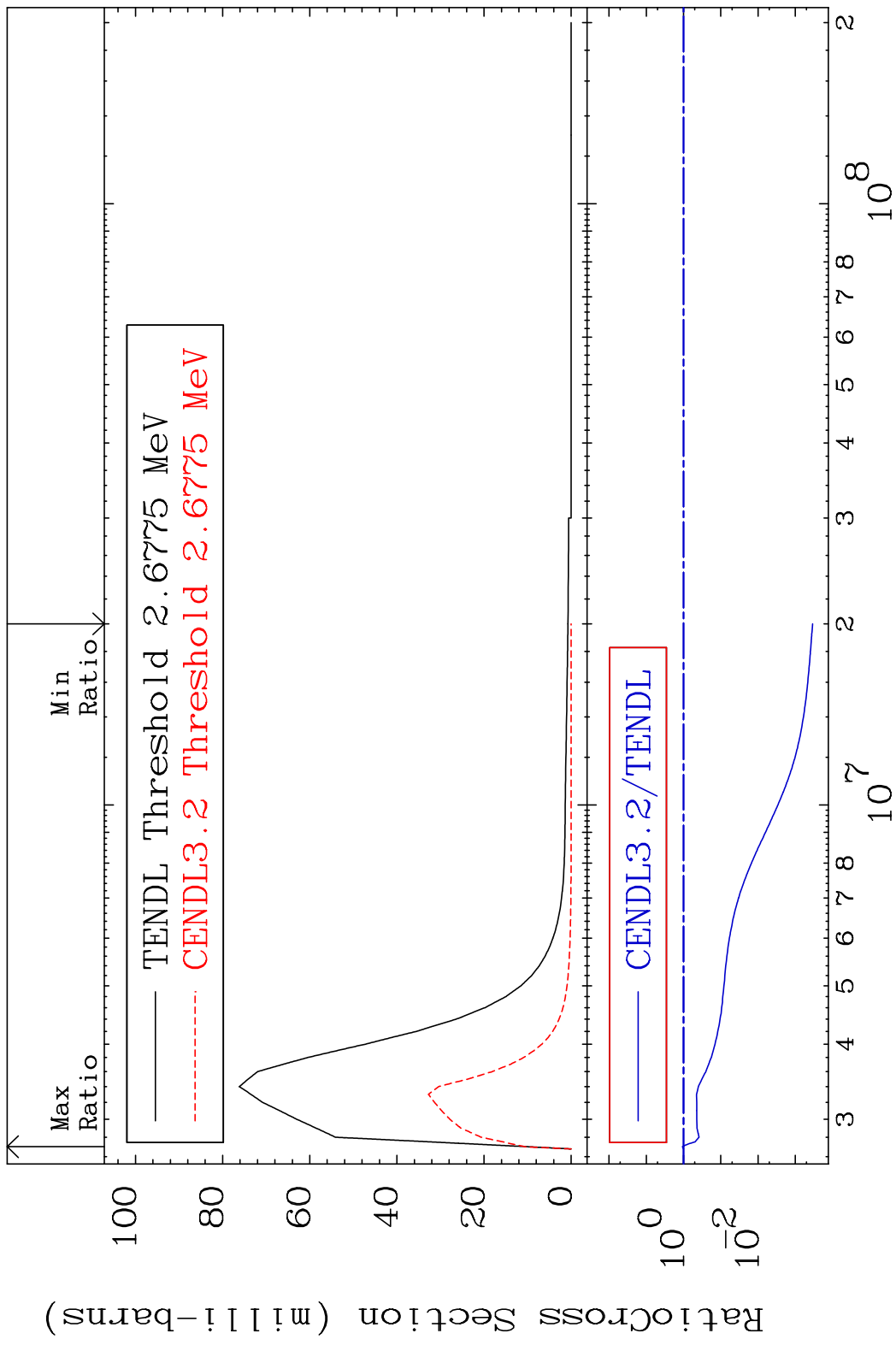
58-Ce-140

MAT 5837 MT= 63 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 14.16 %

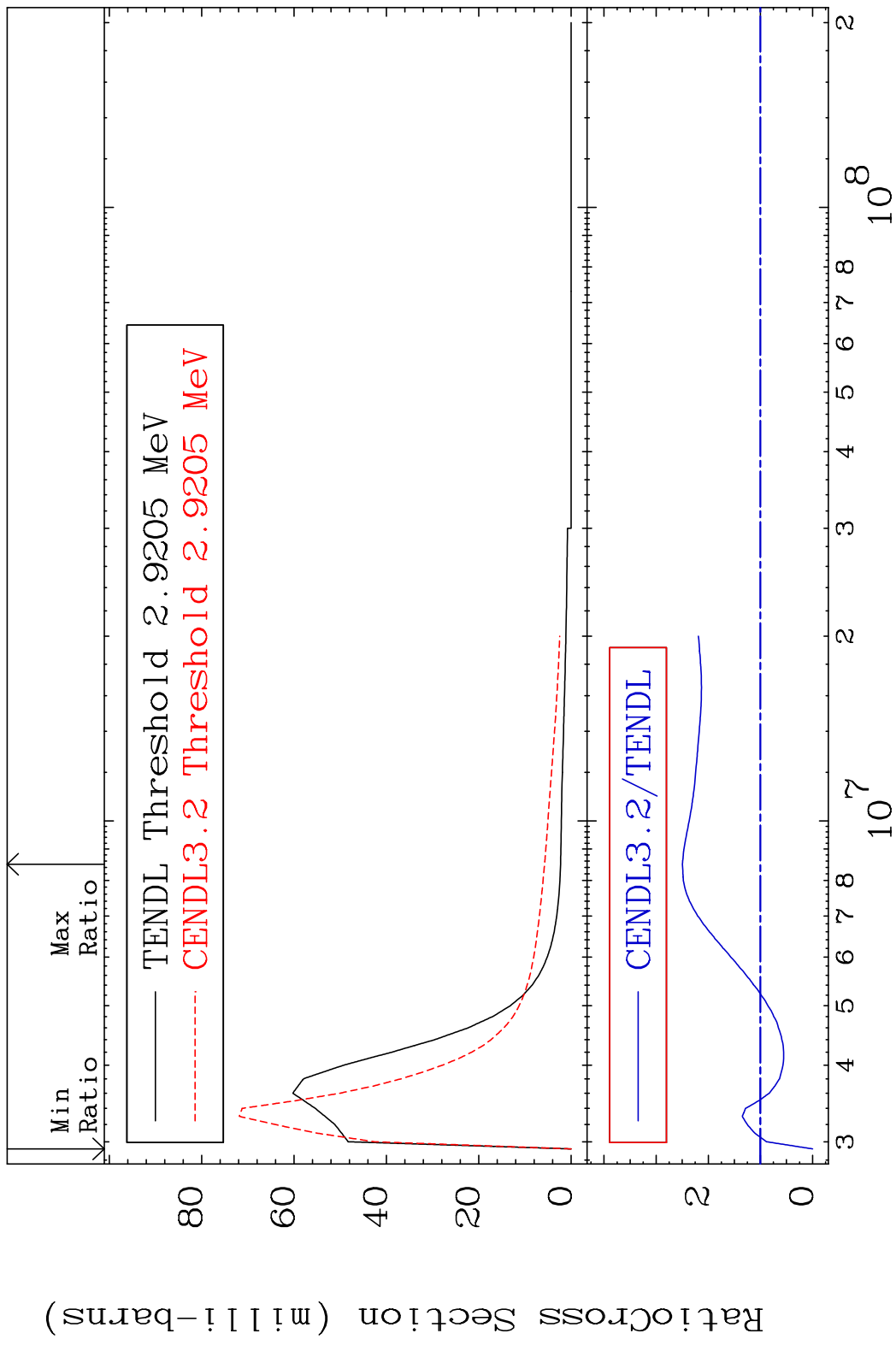


20 Incident Energy (eV) 58-Ce-140

MAT 5837 MT= 64 (n,n') Level 58-Ce-140
 Cross Section -99.97 To 7.503 %



MAT 5837 MT= 65 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 149.8 %

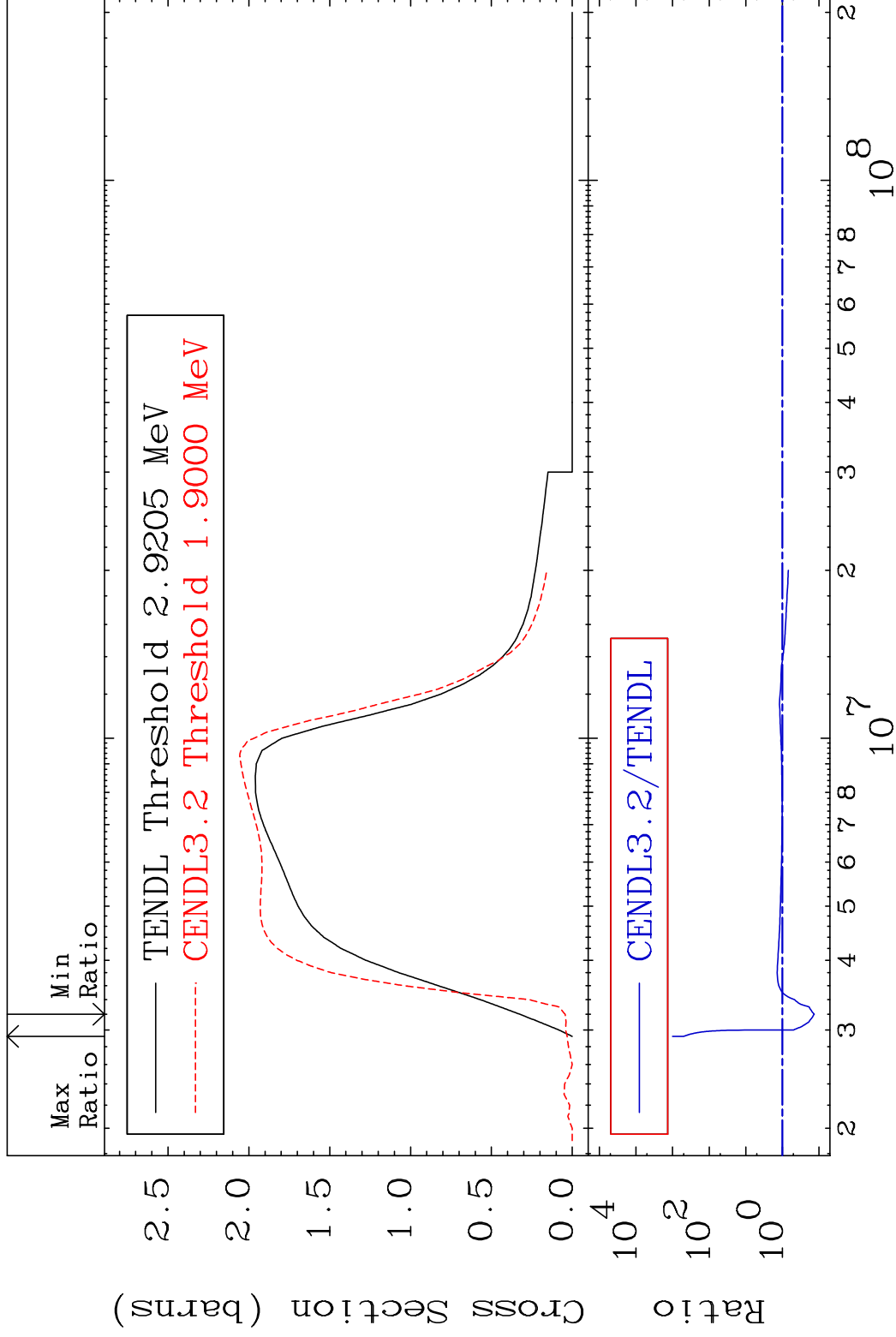


MAT 5837

(n,n') Continuum

58-Ce-140

Cross Section -86.34 To 9999. %

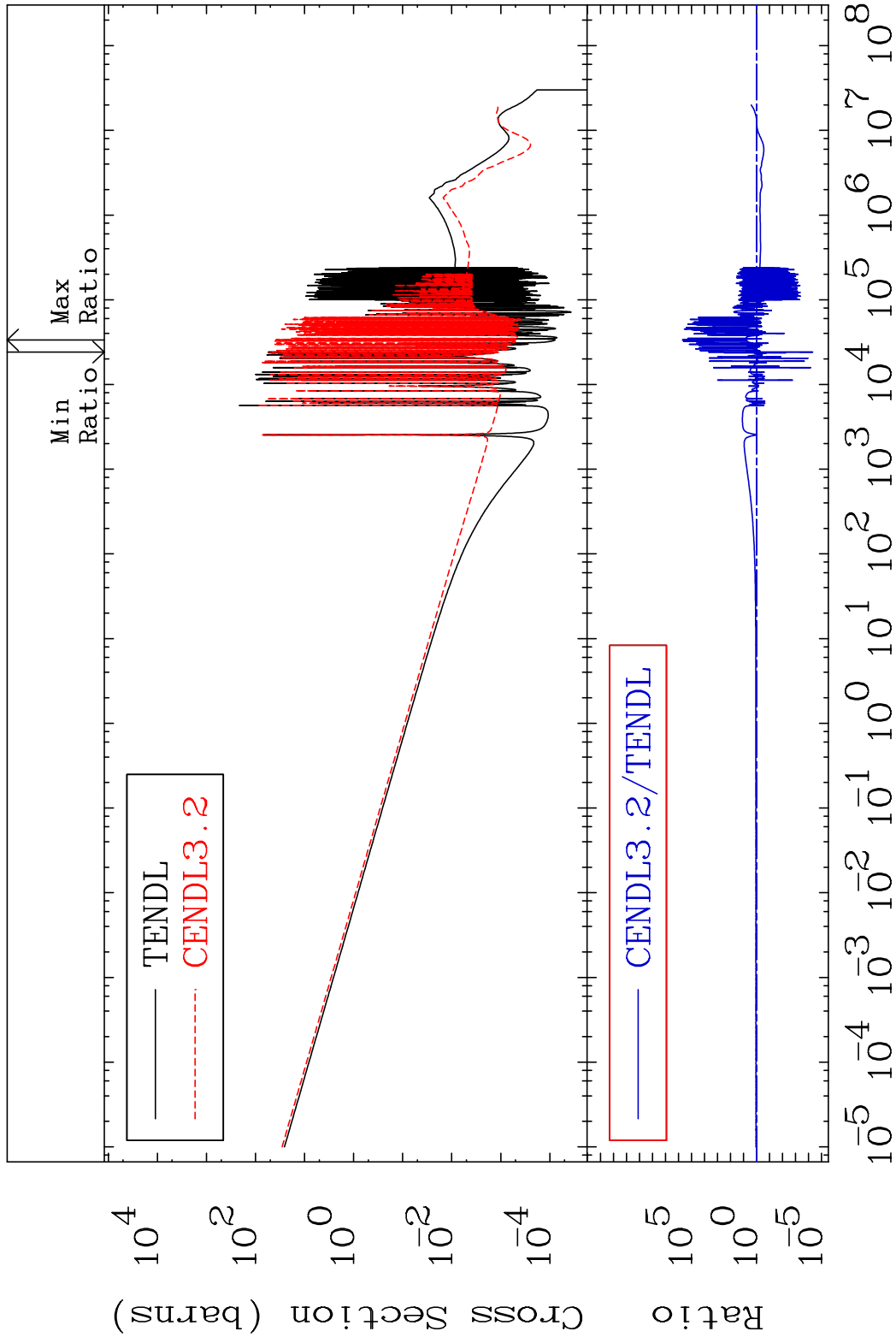


MAT 5837

(n, γ)

58-Ce-140

Cross Section -100.0 To 9999. %



24

Incident Energy (eV)

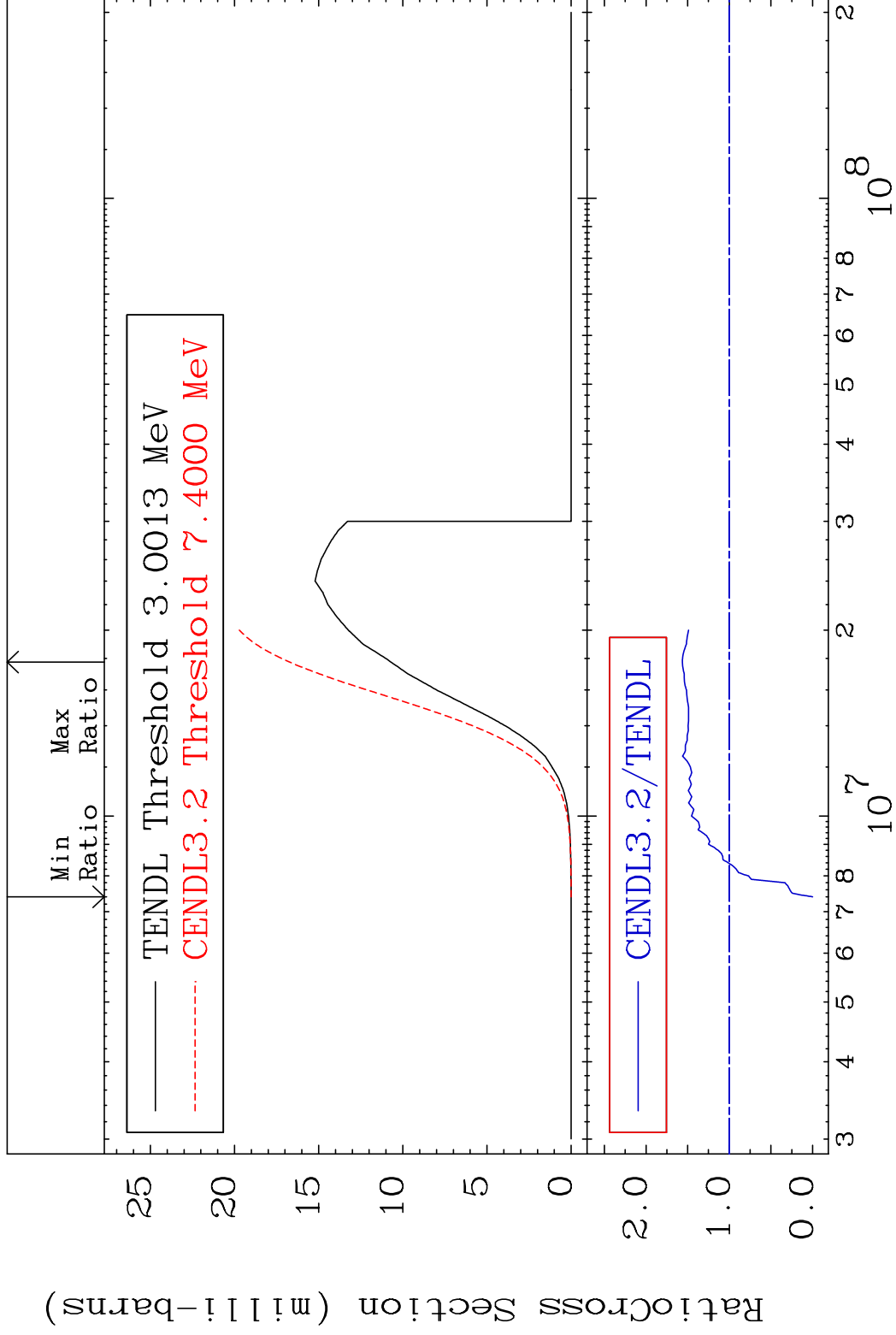
58-Ce-140

MAT 5837

(n,p)

58-Ce-140

Cross Section -100.0 To 56.37 %



25

Incident Energy (eV)

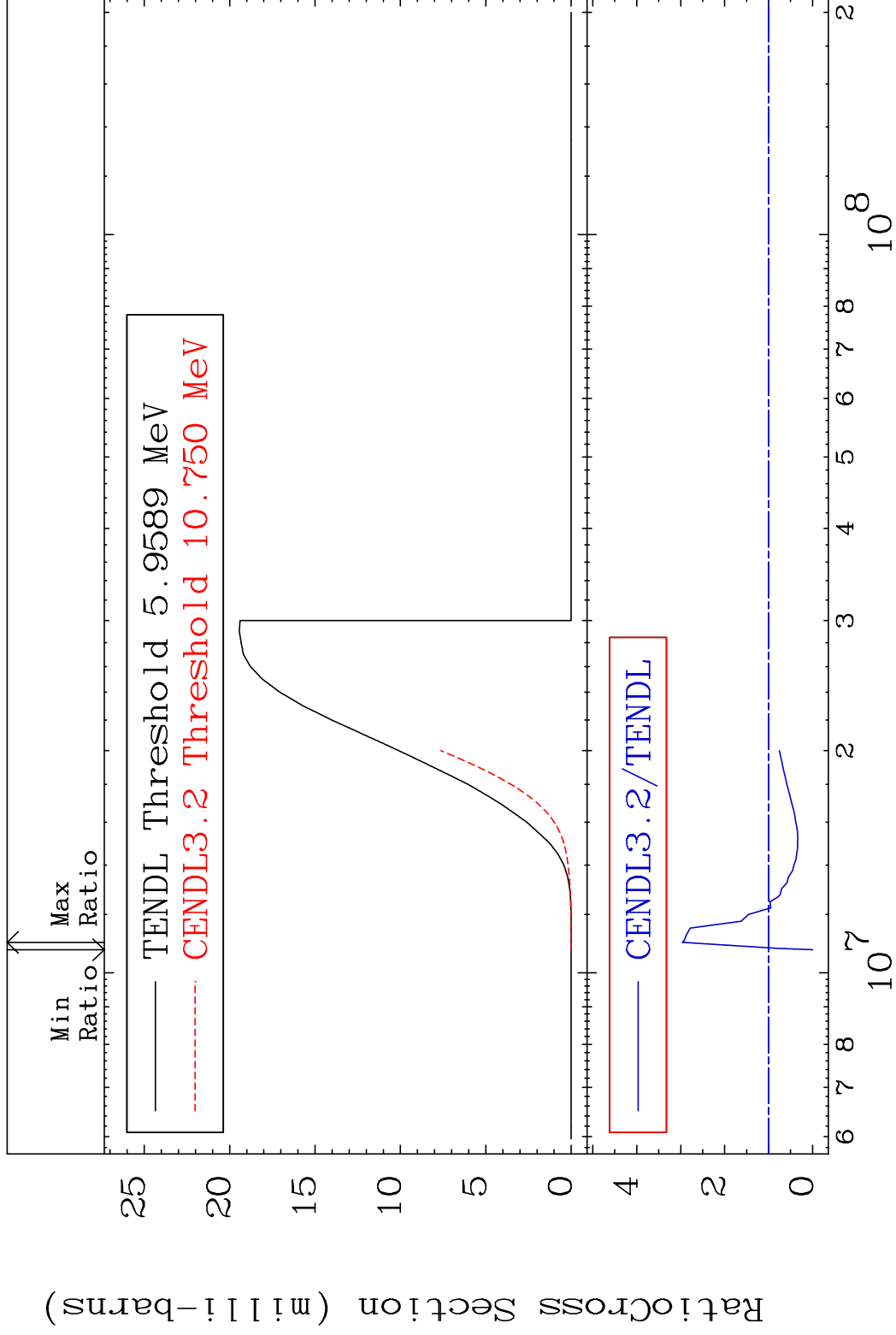
58-Ce-140

MAT 5837

(n, d)

58-Ce-140

Cross Section -100.0 To 196.2 %



26

Incident Energy (eV)

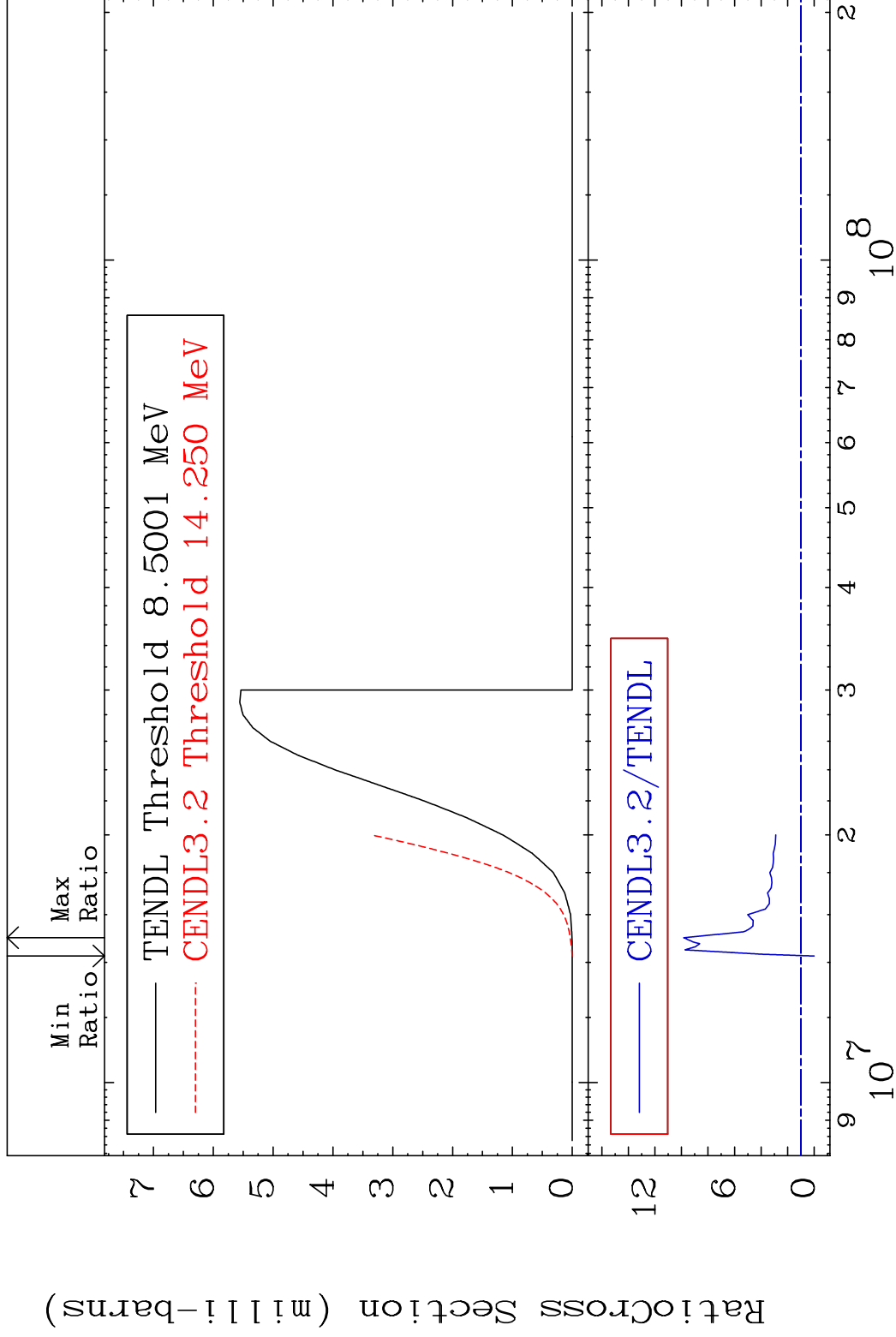
58-Ce-140

MAT 5837

(n, t)

58-Ce-140

Cross Section -100.0 To 883.6 %



27

Incident Energy (eV)

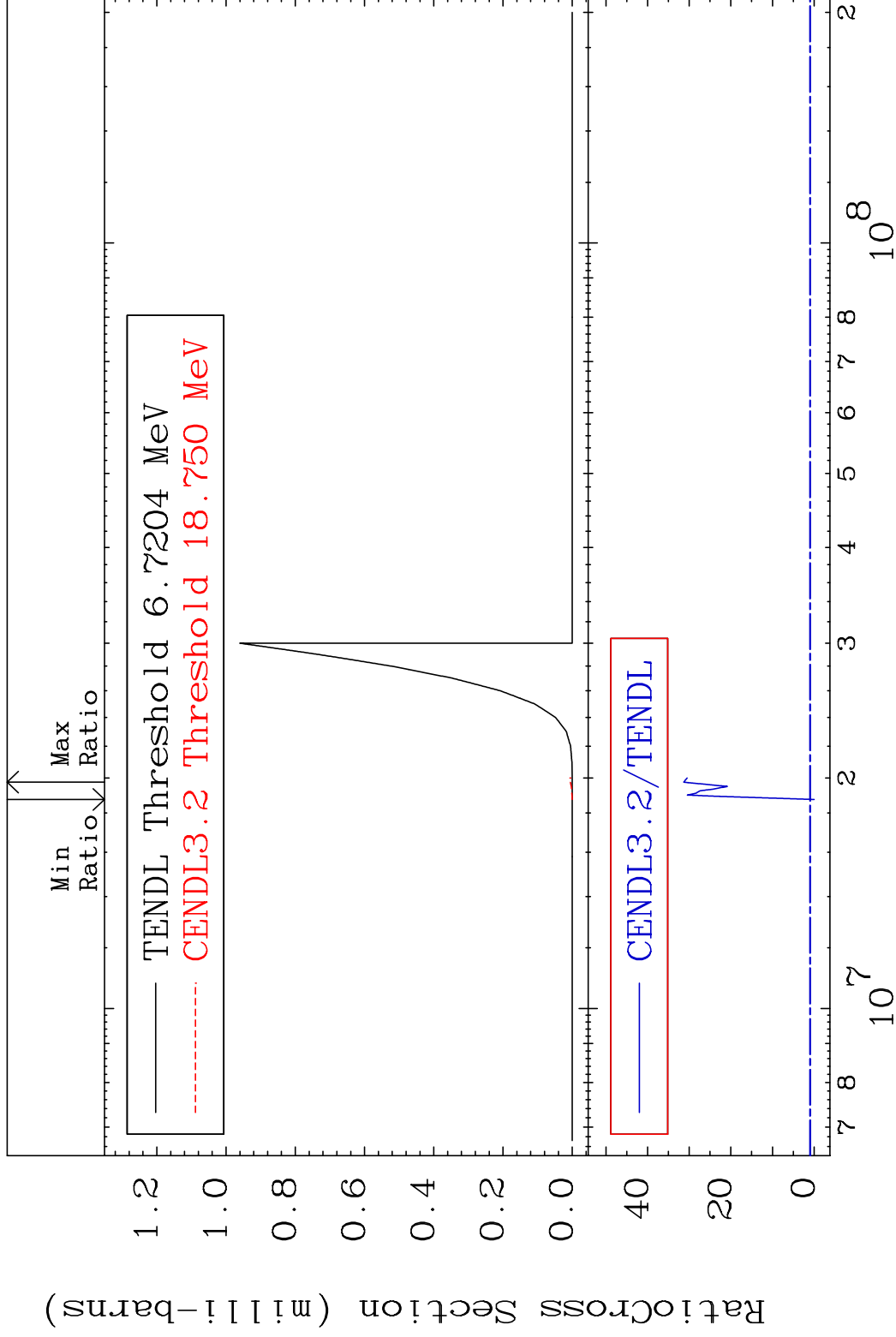
58-Ce-140

MAT 5837

(n, He-3)

58-Ce-140

Cross Section -100.0 To 3033. %



28

Incident Energy (eV)

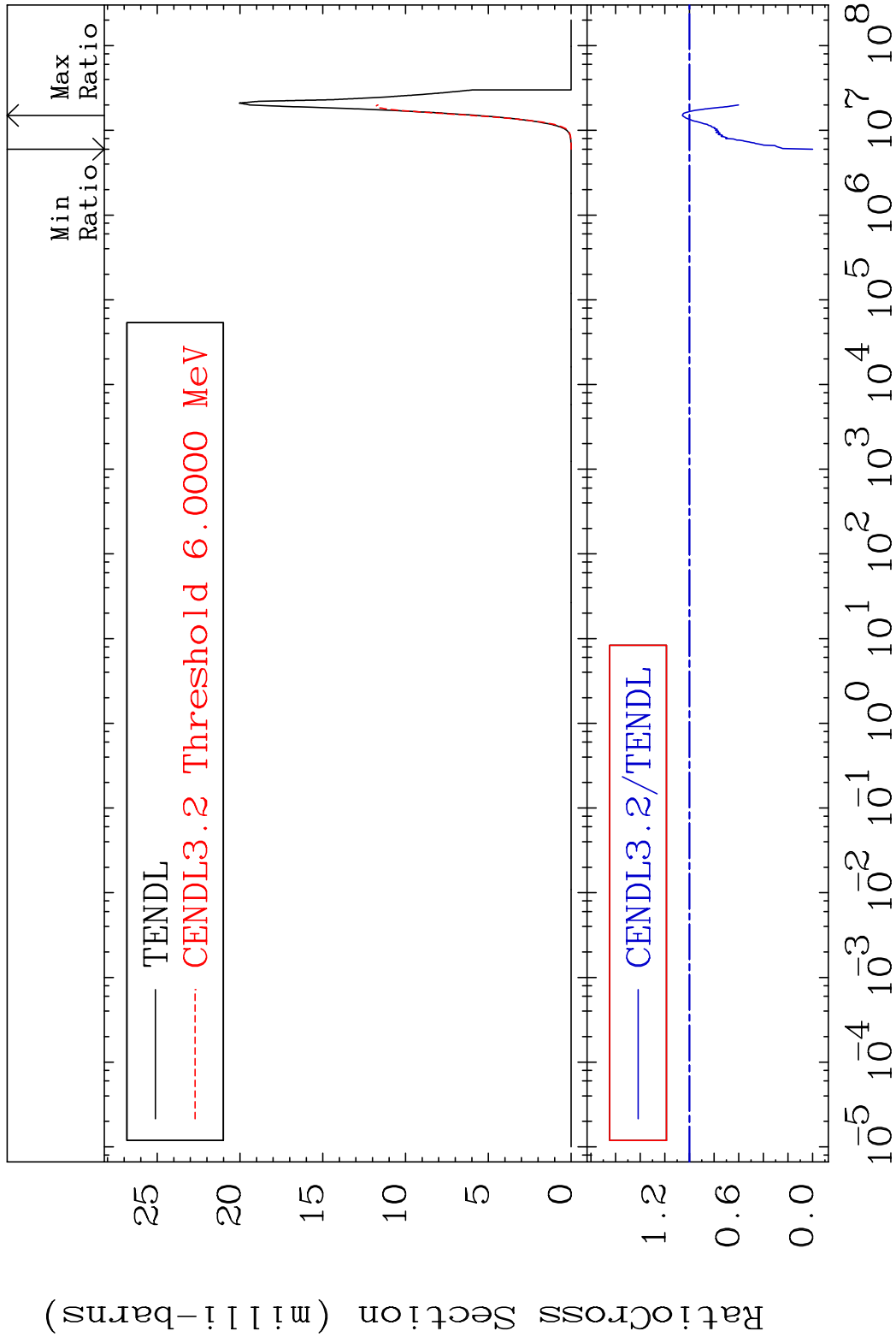
58-Ce-140

MAT 5837

(n, α)

58-Ce-140

Cross Section -100.0 To 5.732 %



29

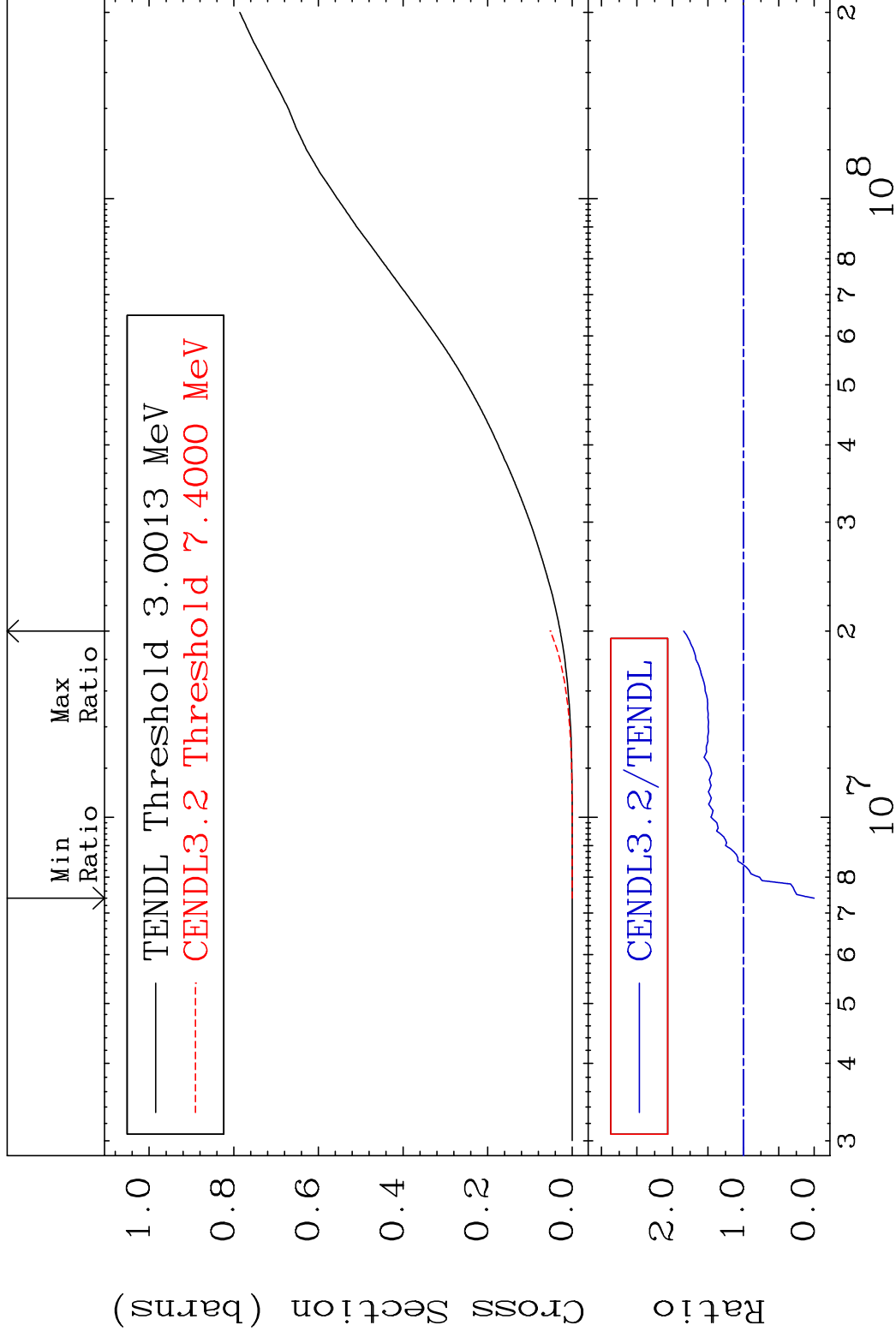
Incident Energy (eV)

58-Ce-140

MAT 5837

Hydrogen Production
Cross Section -100.0 To 84.09 %

58-Ce-140



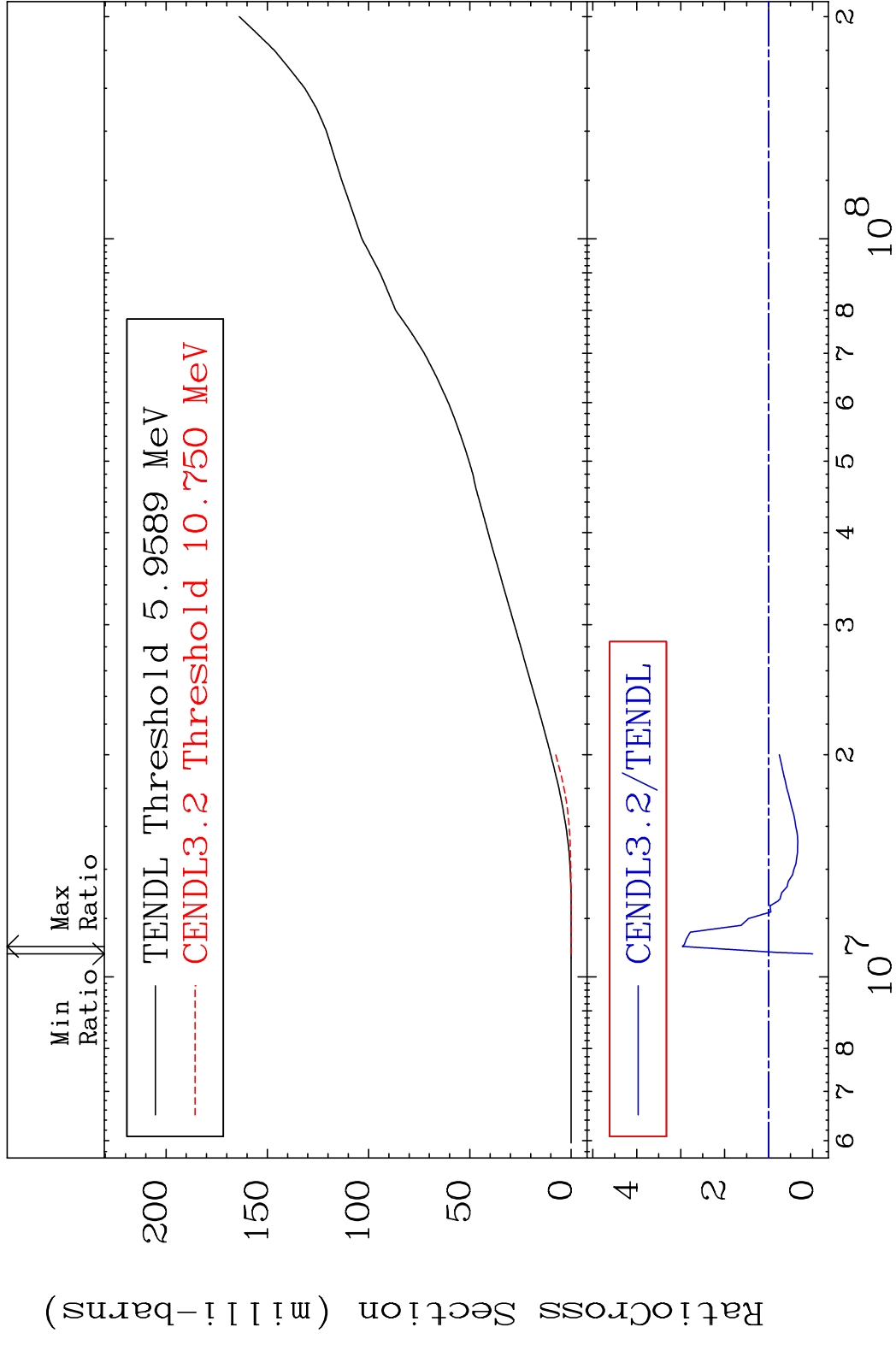
30

Incident Energy (eV)

58-Ce-140

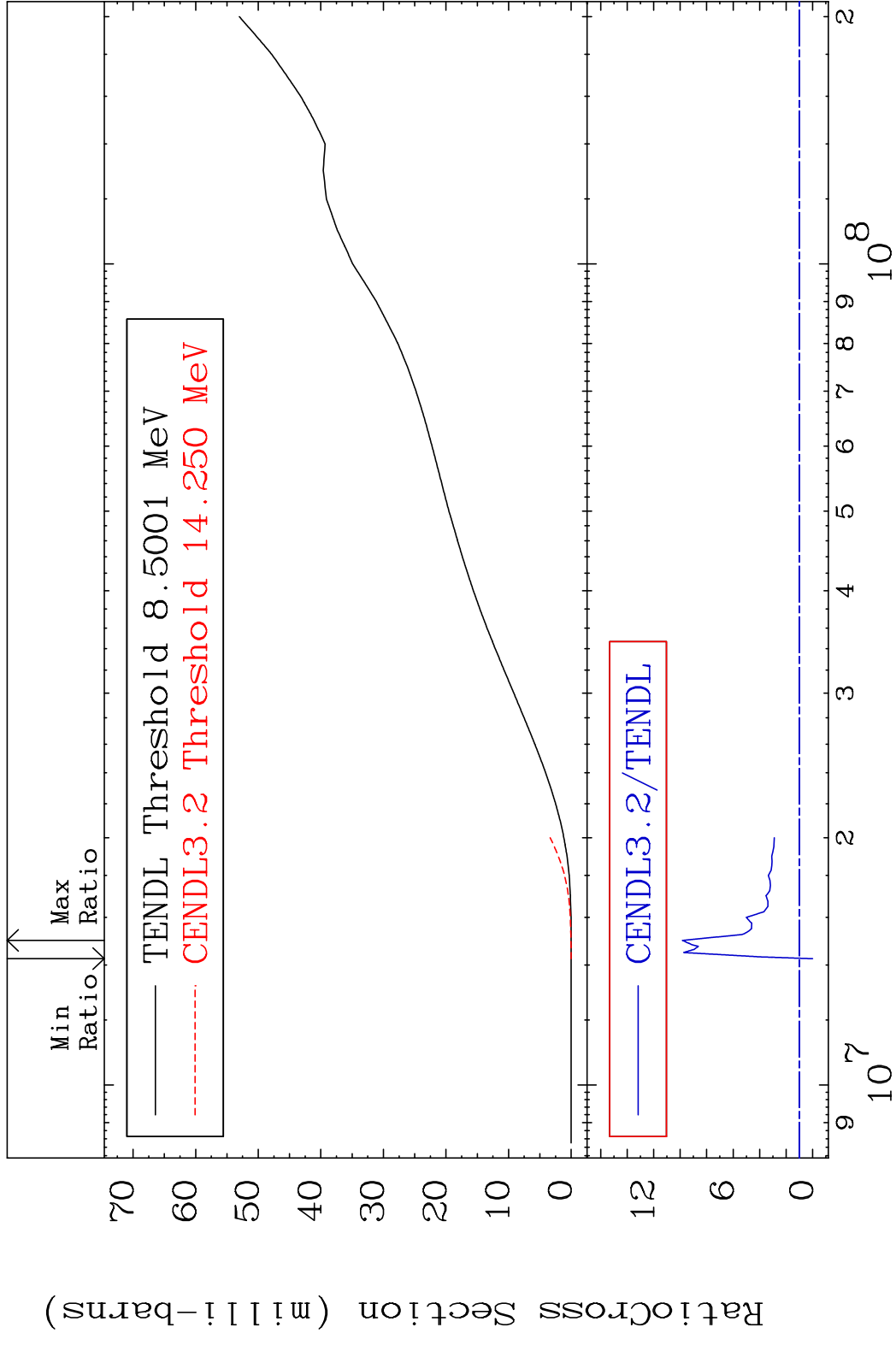
MAT 5837

Deuterium Production 58-Ce-140
Cross Section -100.0 To 196.2 %



MAT 5837

Tritium Production 58-Ce-140
Cross Section -100.0 To 883.6 %

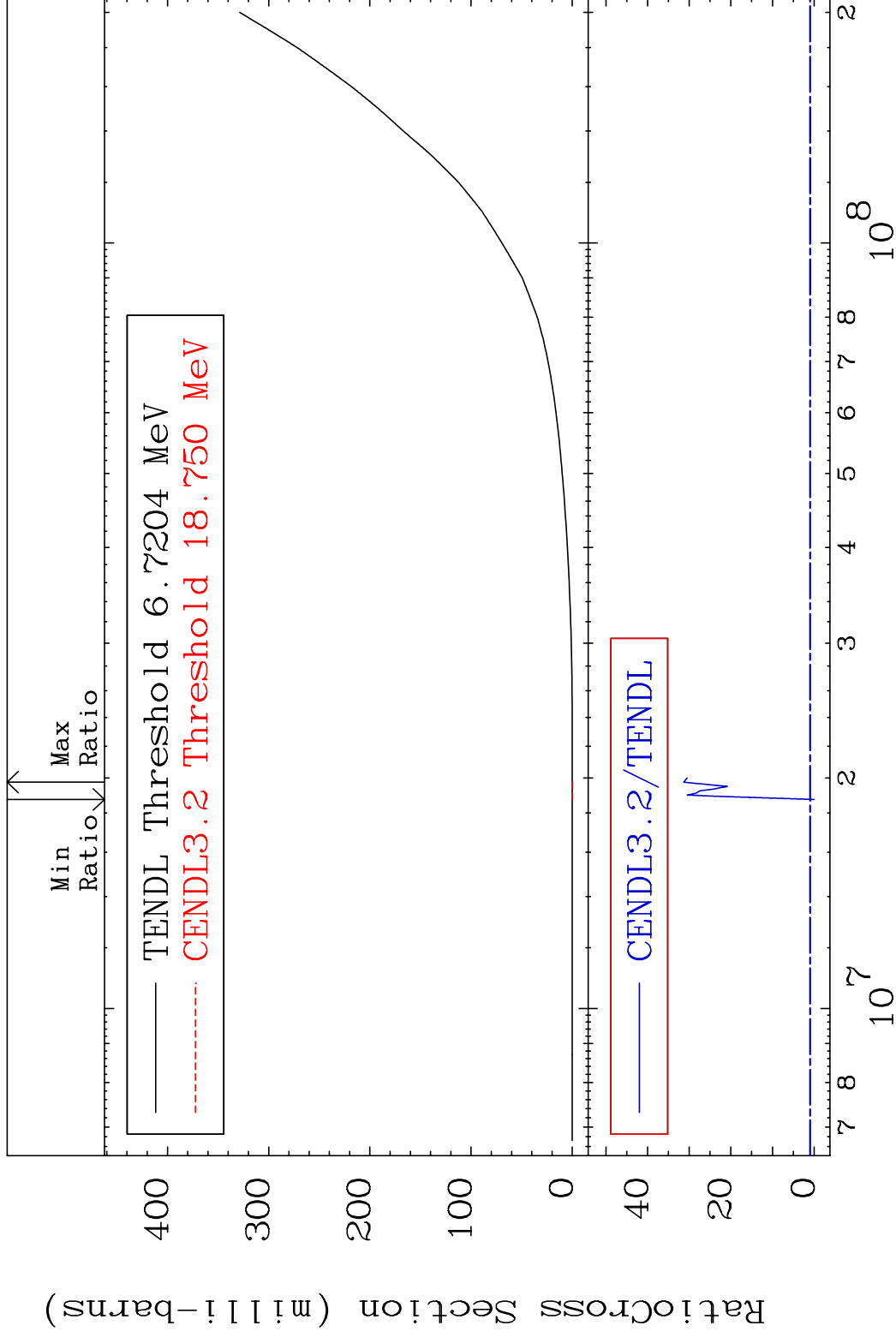


MAT 5837

He-3 Production

58-Ce-140

Cross Section -100.0 To 3033. %



33

Incident Energy (eV)

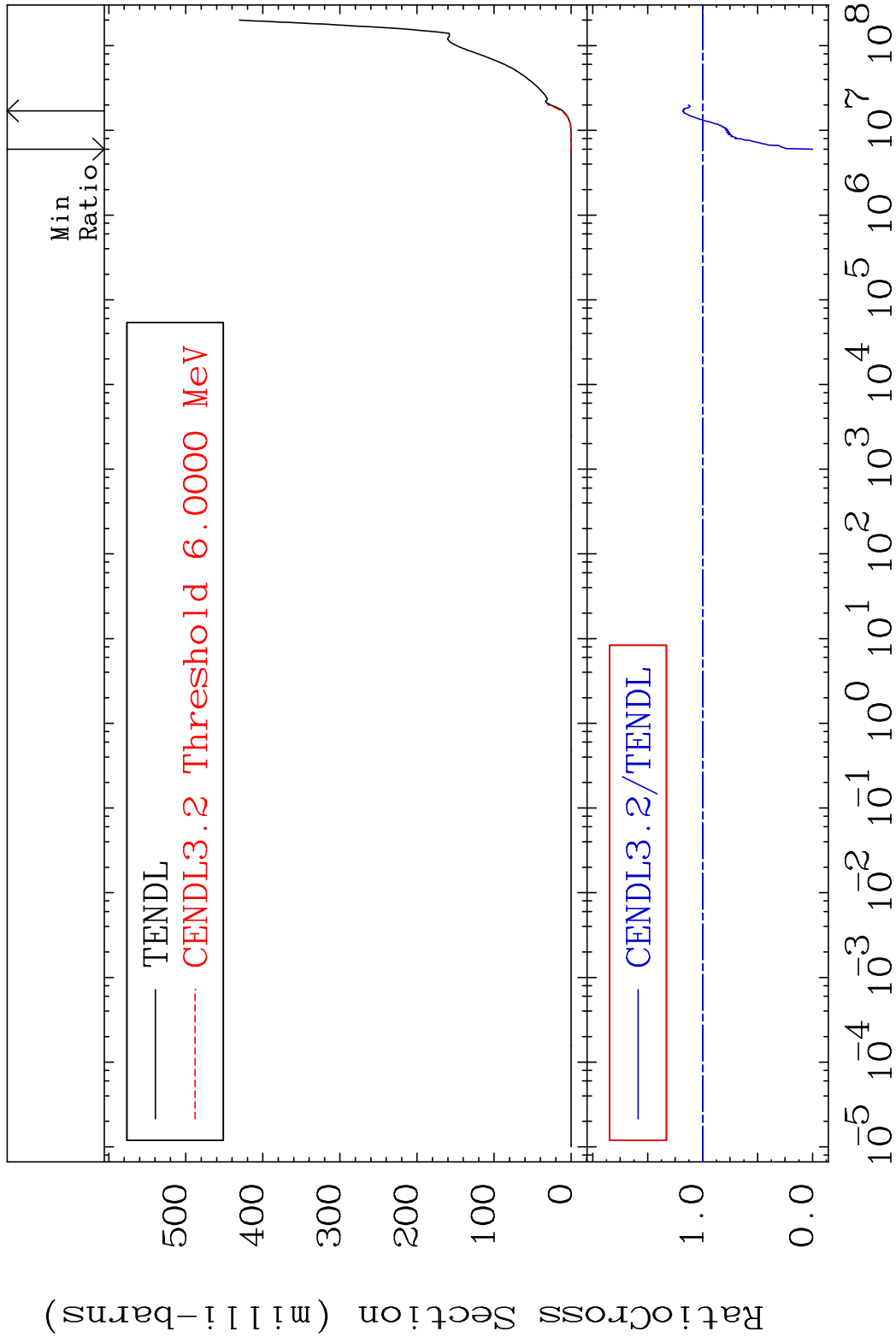
58-Ce-140

MAT 5837

He-4 Production

58-Ce-140

Cross Section -100.0 To 18.47 %



34

Incident Energy (eV)

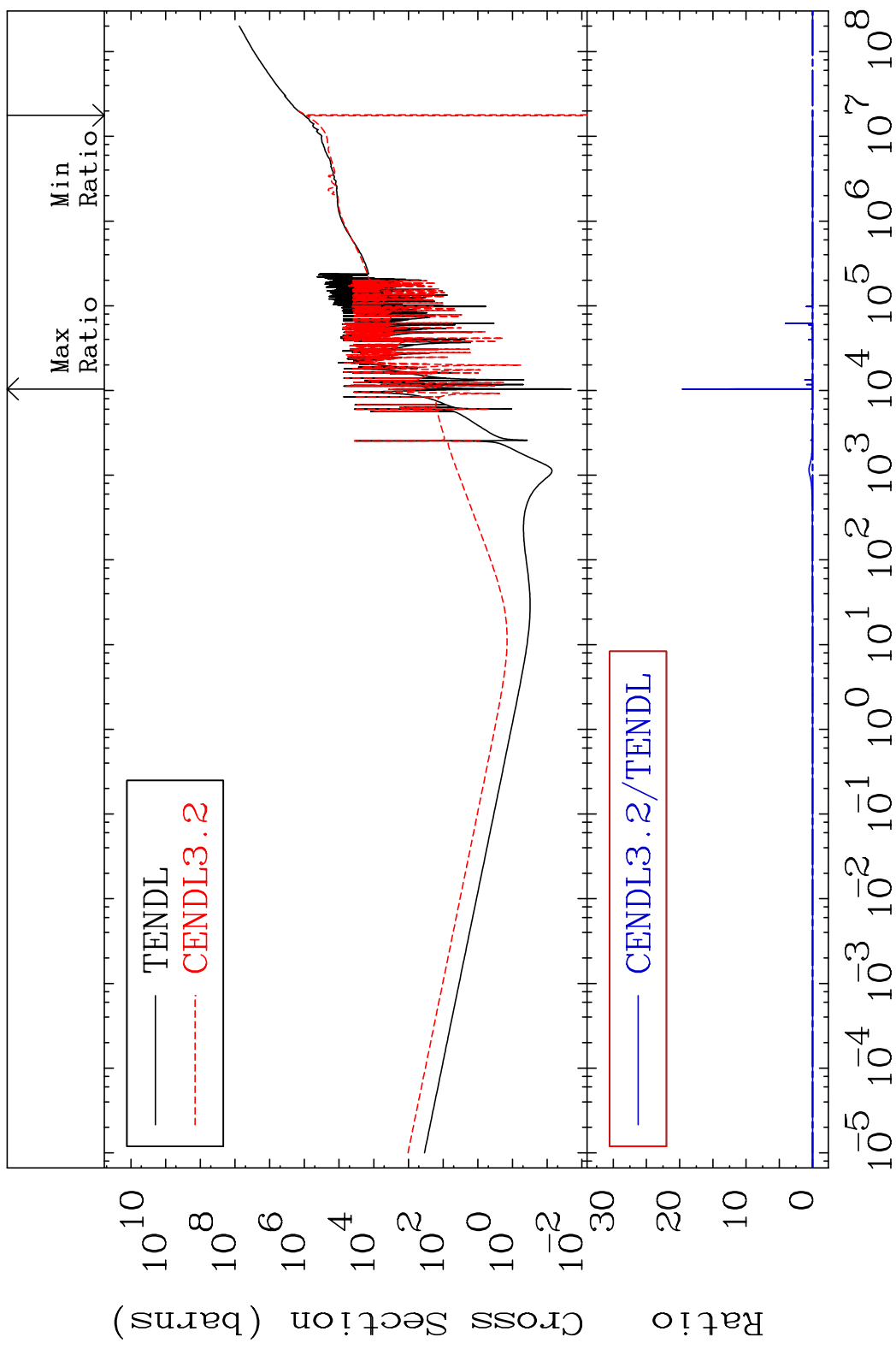
58-Ce-140

MAT 5837

Kerma total (eV-barns)

58-Ce-140

Cross Section -469.3 To 9999. %



35

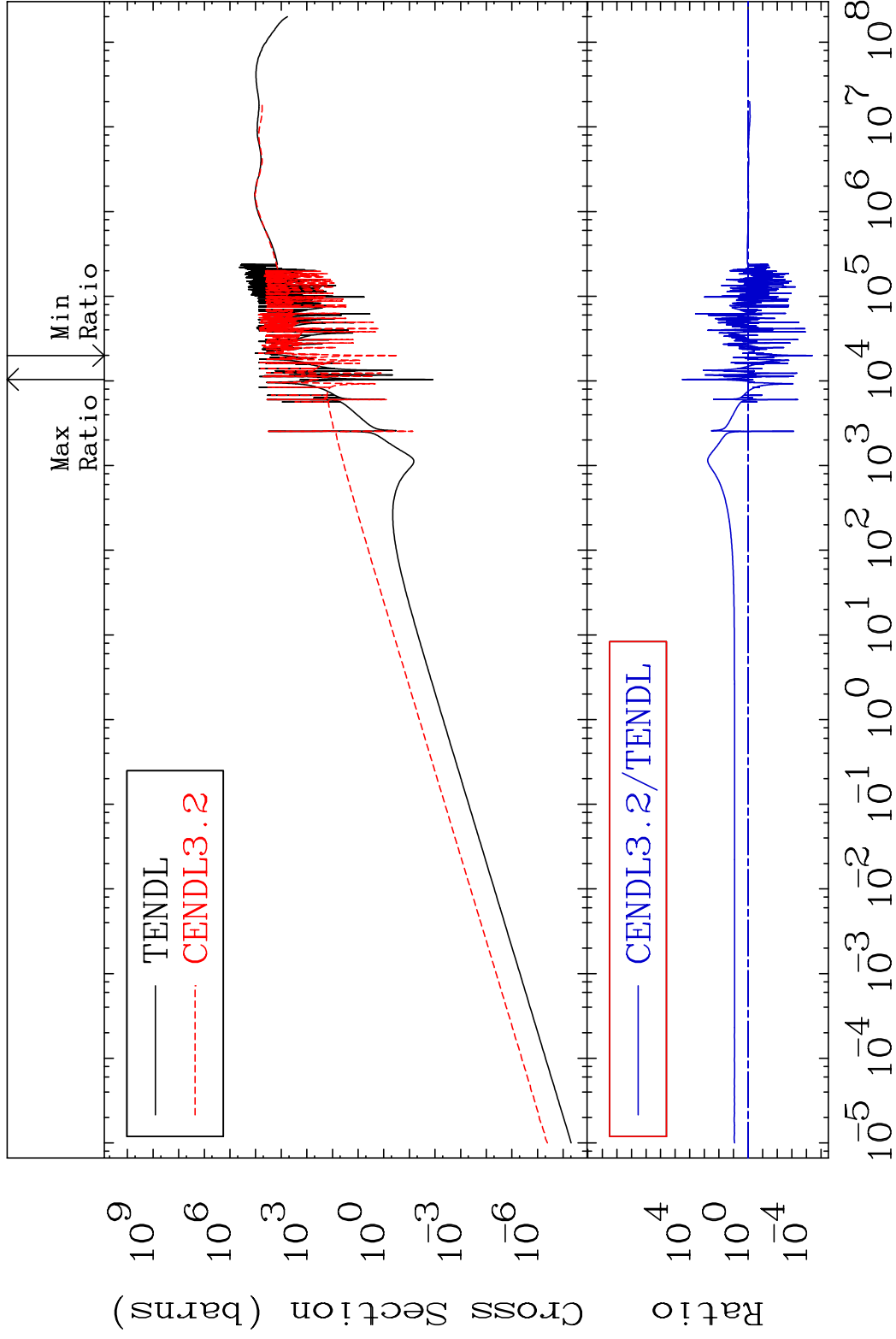
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma elastic
Cross Section

58-Ce-140
-100.0 To 9999. %

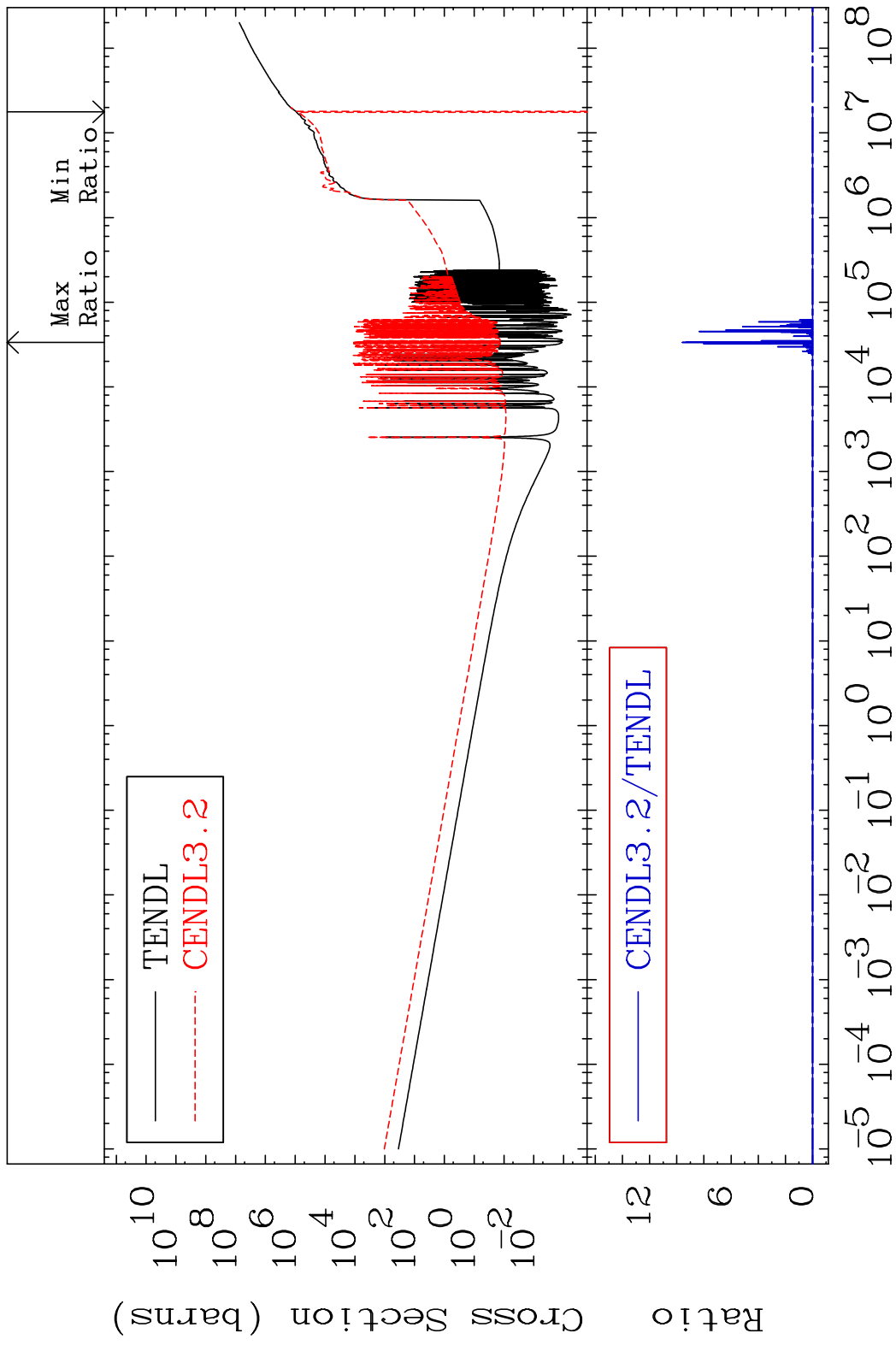


36

Incident Energy (eV)

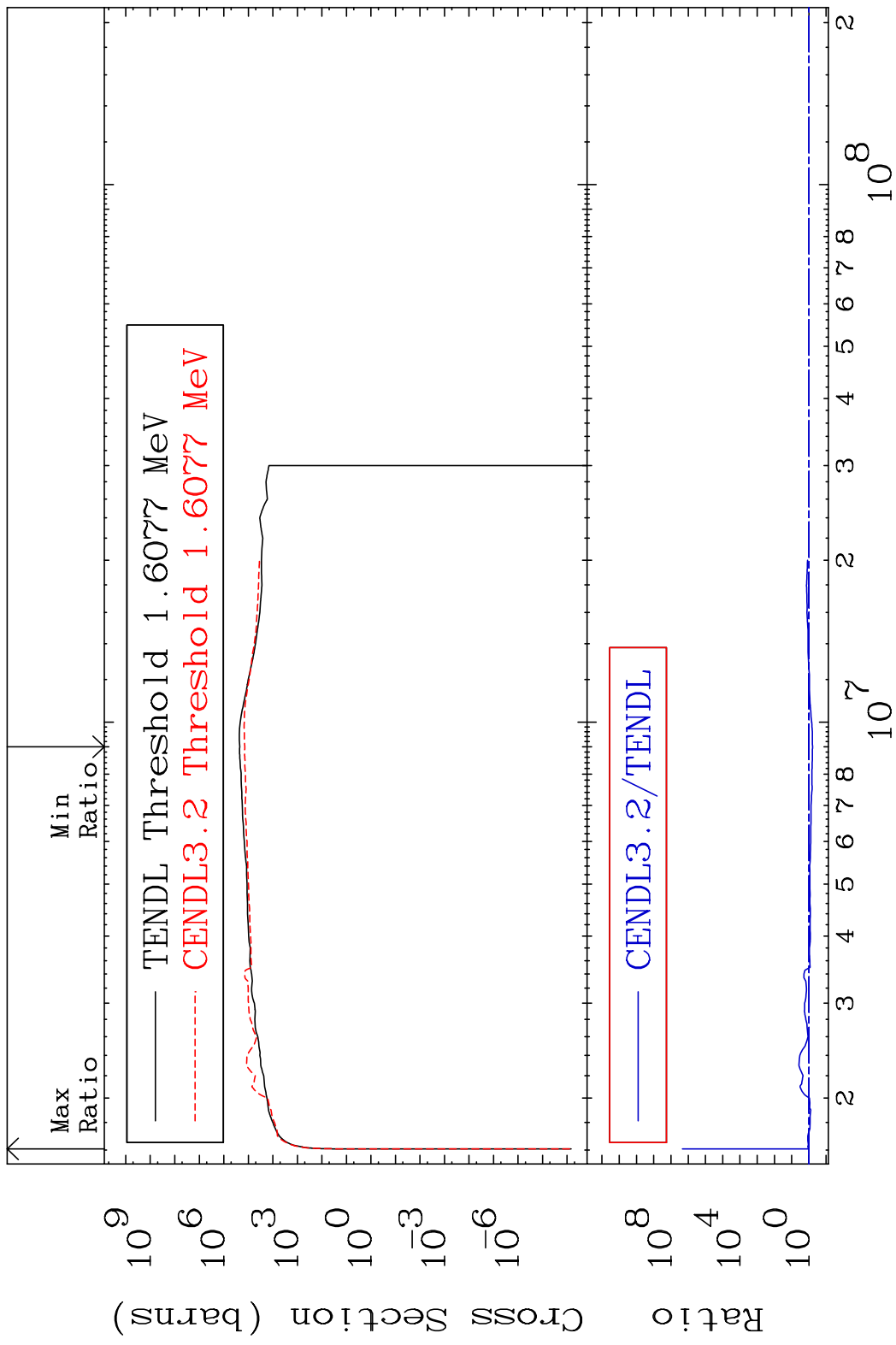
58-Ce-140

MAT 5837 Kerma non-elastic (all but mt2) 58-Ce-140
 Cross Section -504.5 To 9999. %

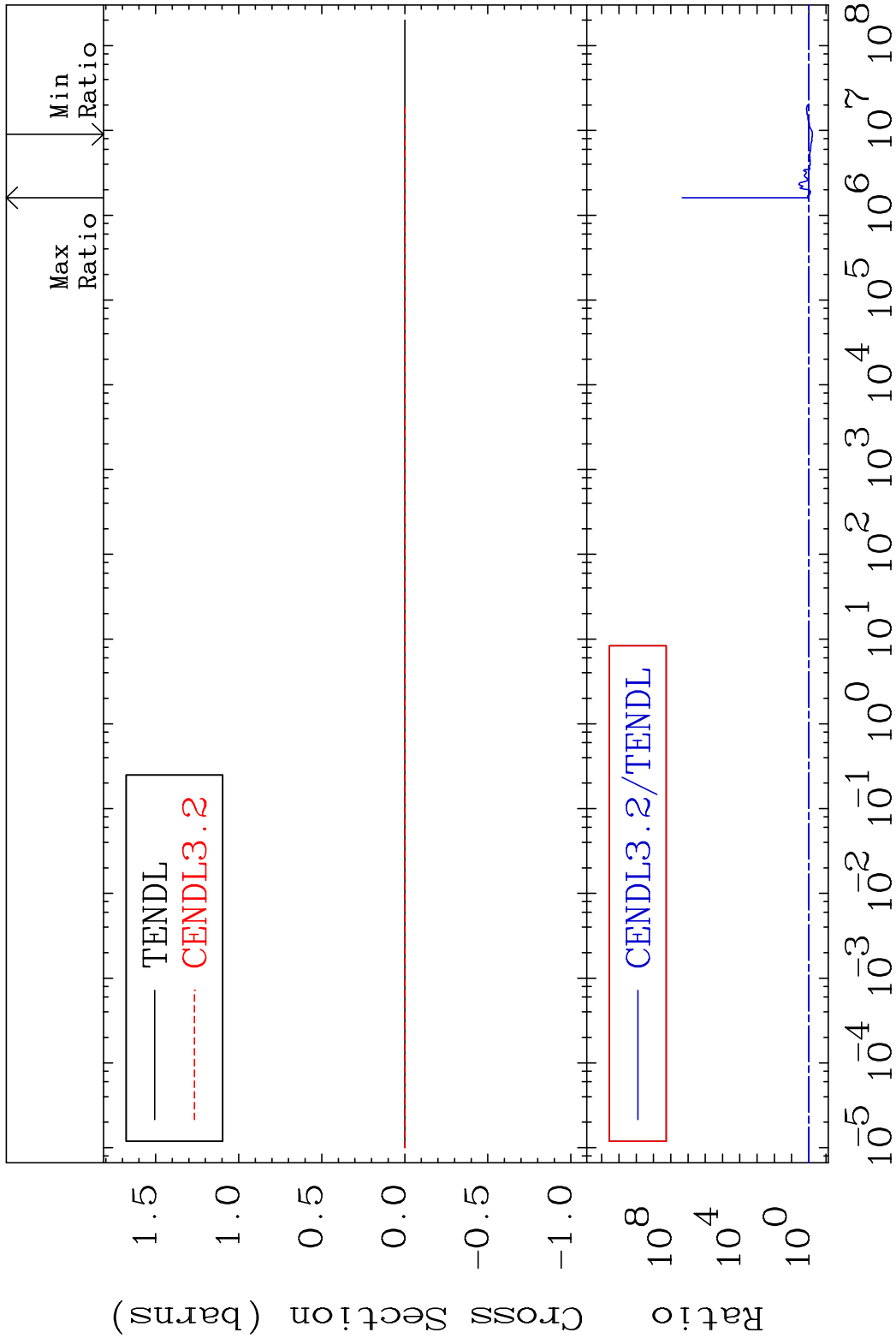


37 Incident Energy (eV) 58-Ce-140

MAT 5837 Kerma inelastic (mt51-91) 58-Ce-140
 Cross Section -38.39 To 9999. %



MAT 5837 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-140
 Cross Section -38.39 To 9999. %

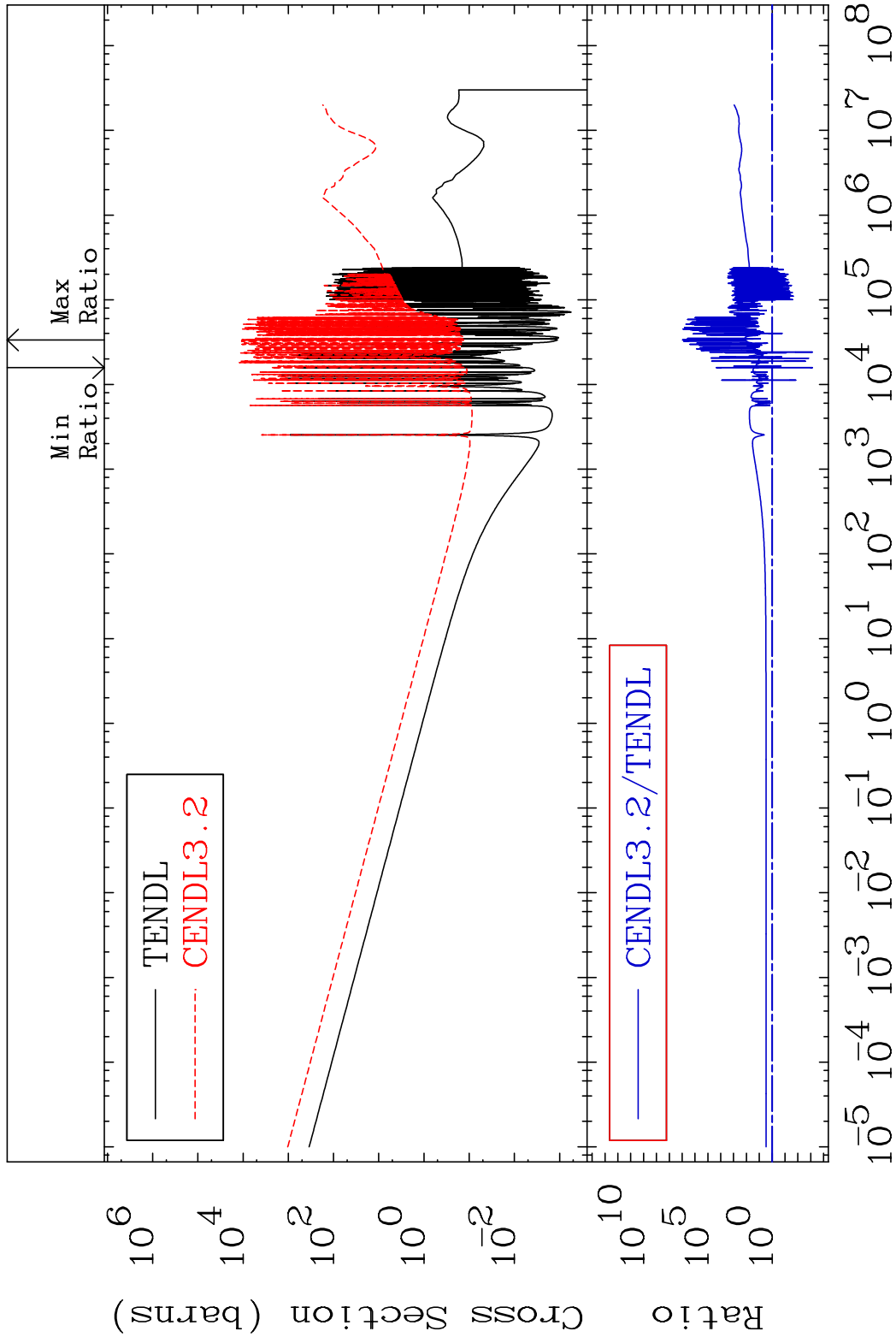


MAT 5837

Kerma capture (mt102)

58-Ce-140

Cross Section -99.93 To 9999. %



40

Incident Energy (eV)

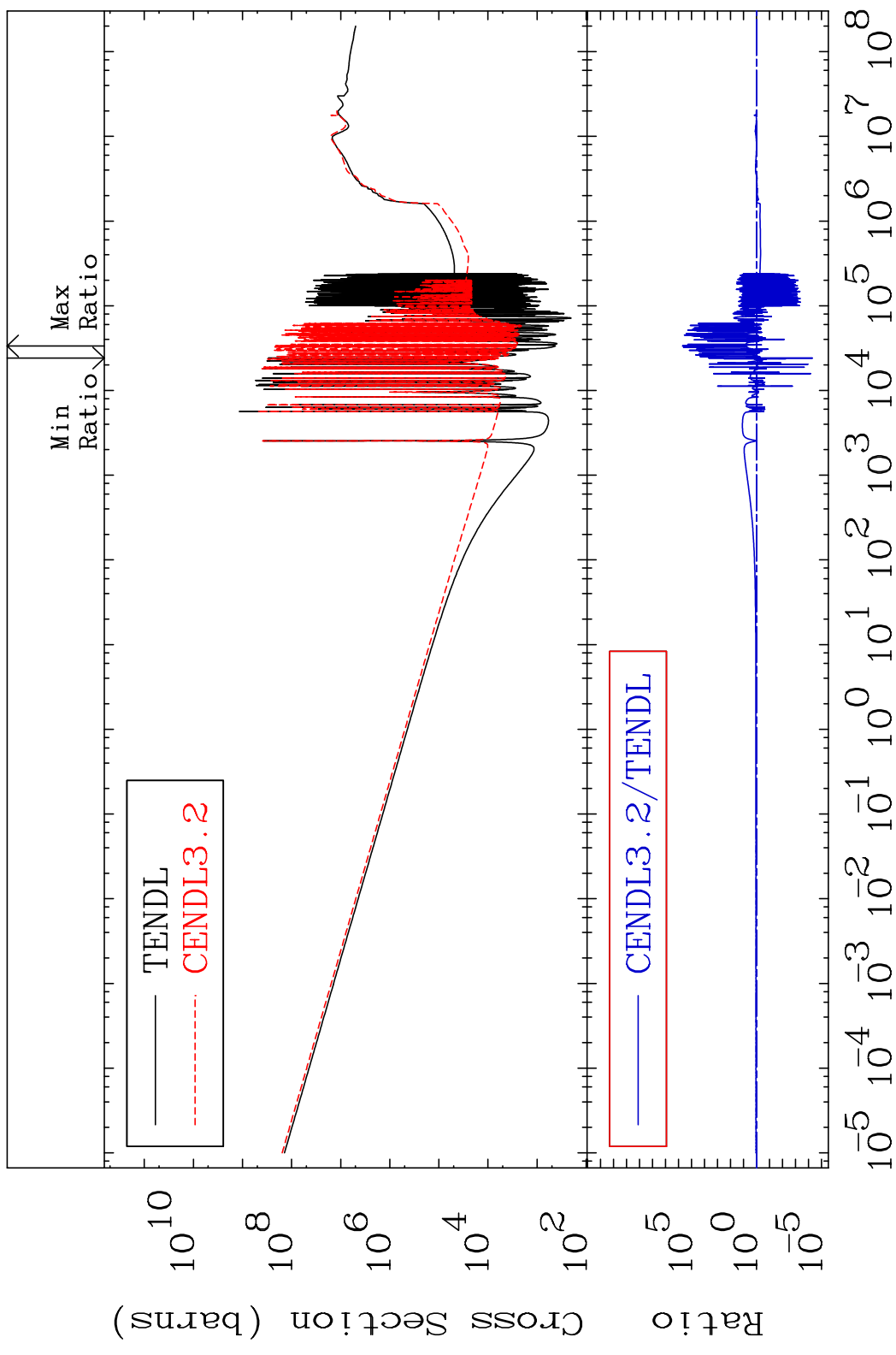
58-Ce-140

MAT 5837

Total photon (eV-barns)

58-Ce-140

Cross Section -100.0 To 9999. %

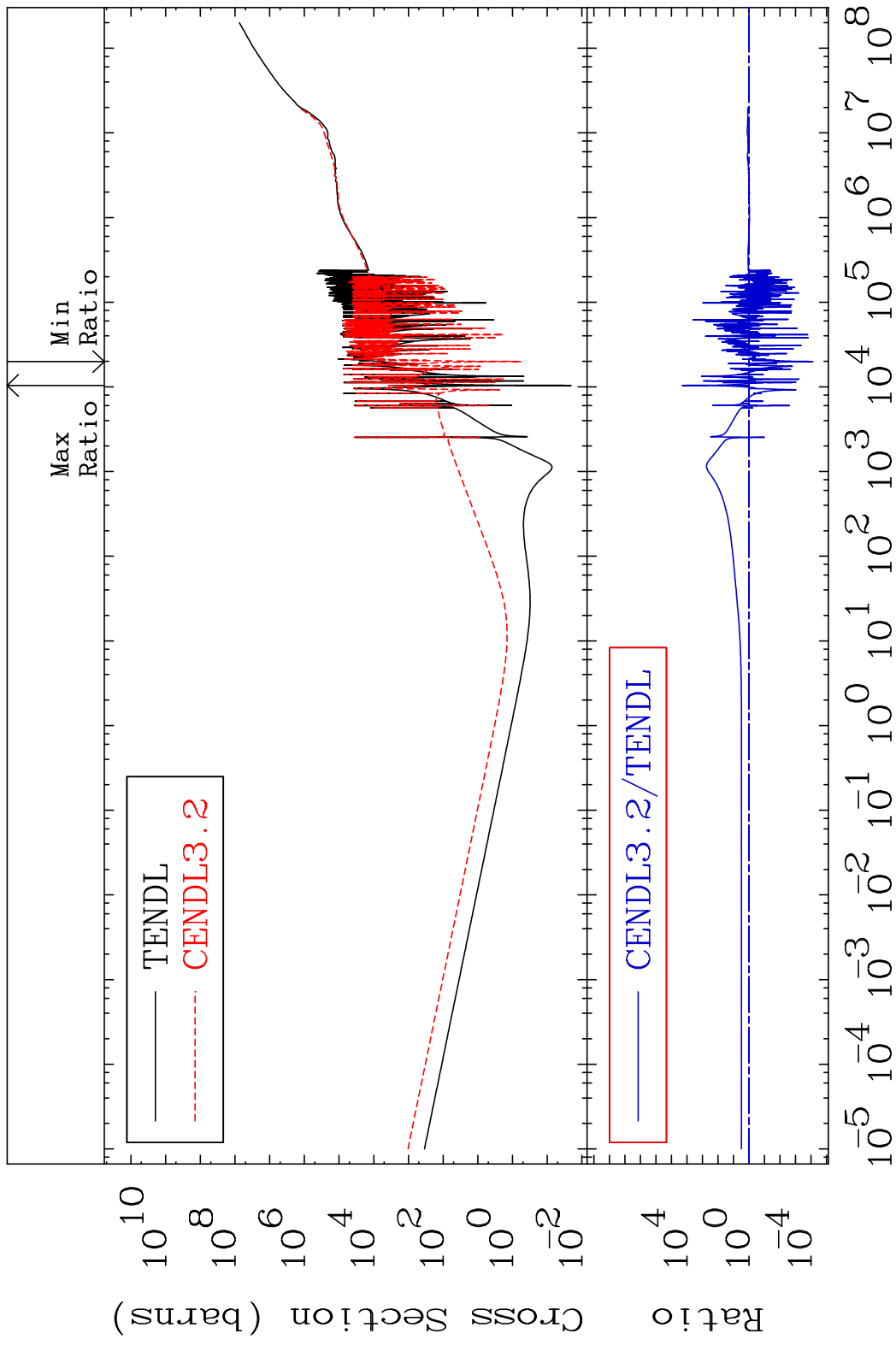


41

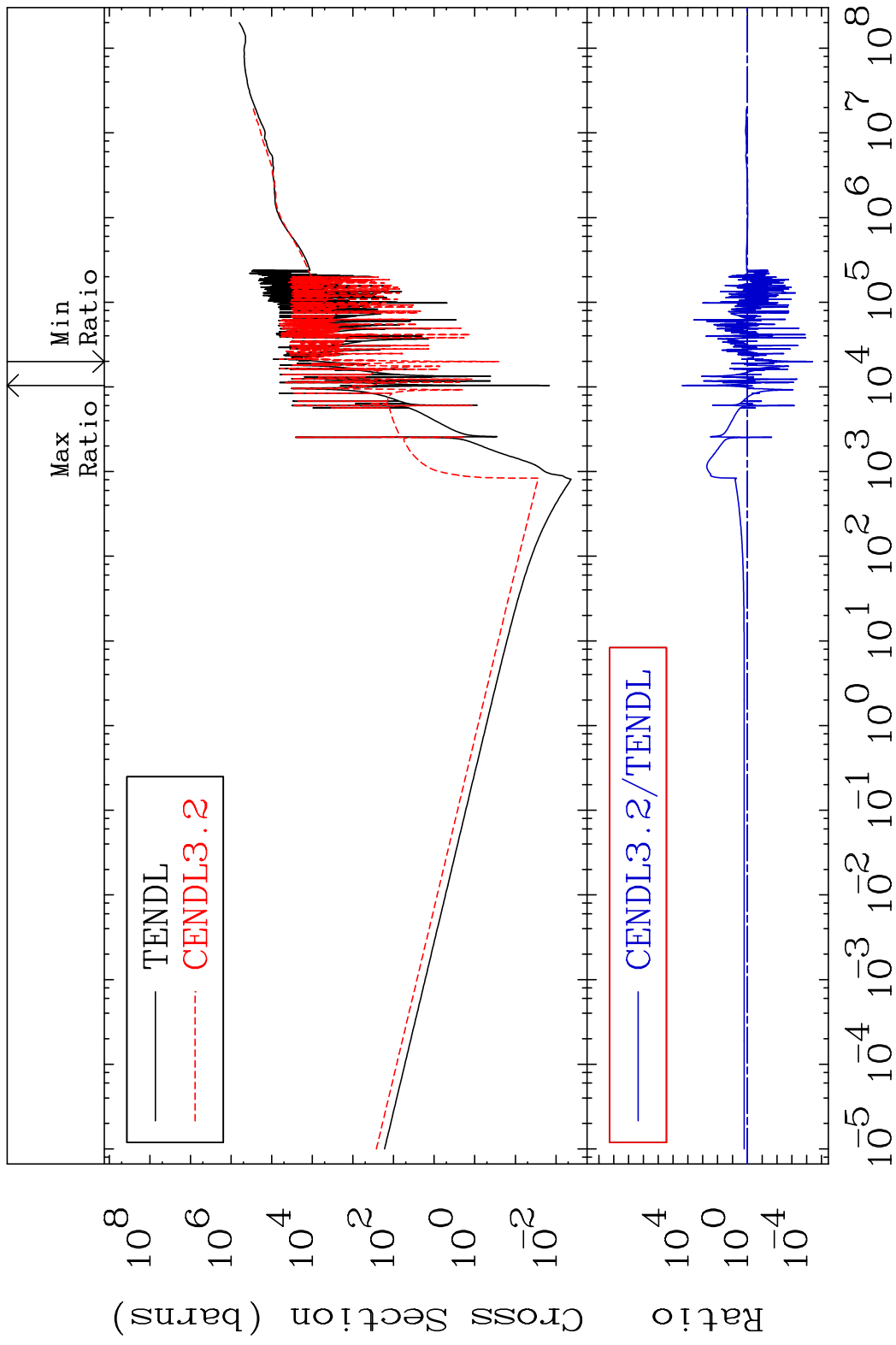
Incident Energy (eV)

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 -100.0 To 9999. %



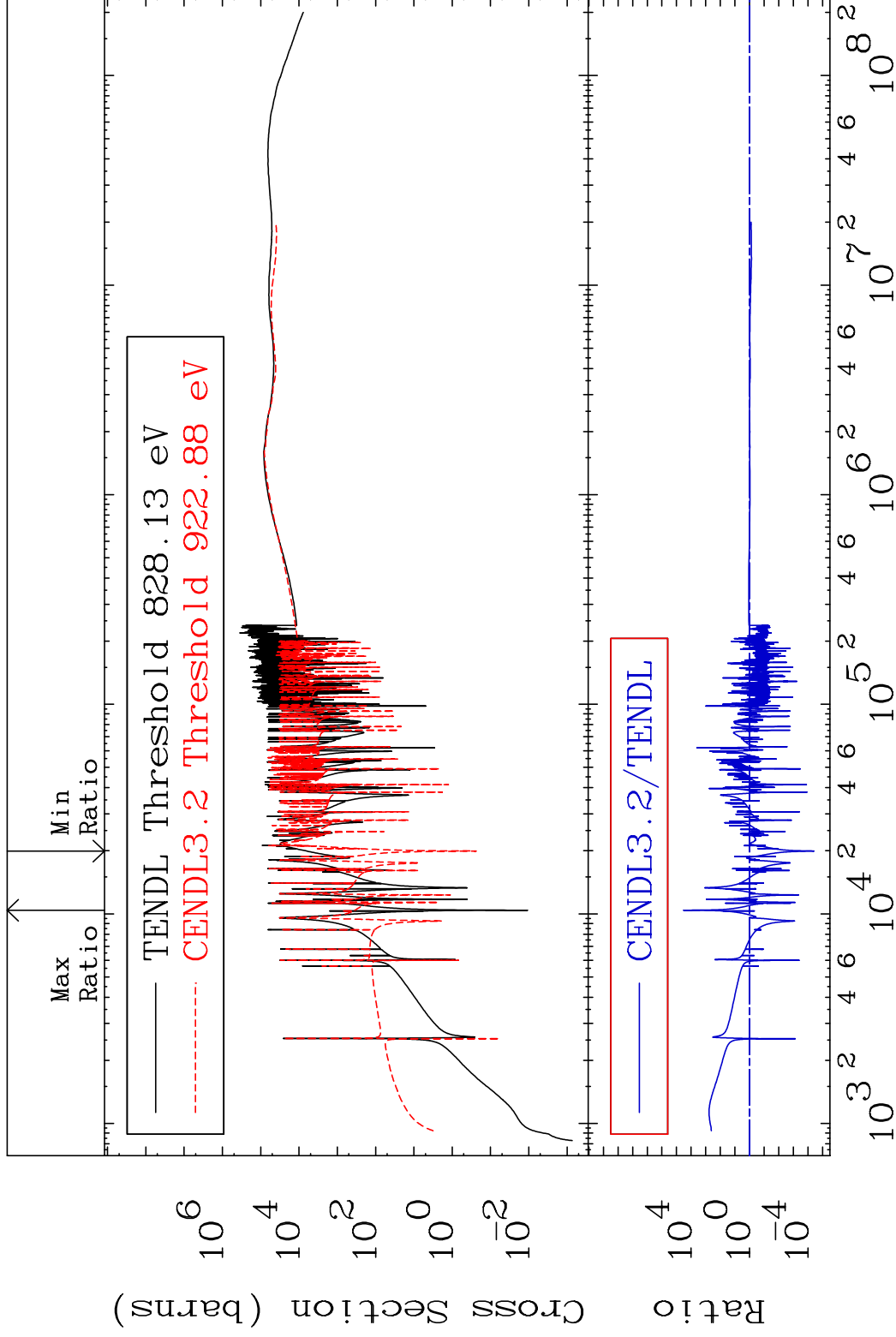
43 Incident Energy (eV) 58-Ce-140

MAT 5837

Dpa elastic (mt2)

58-Ce-140

Cross Section -100.0 To 9999. %

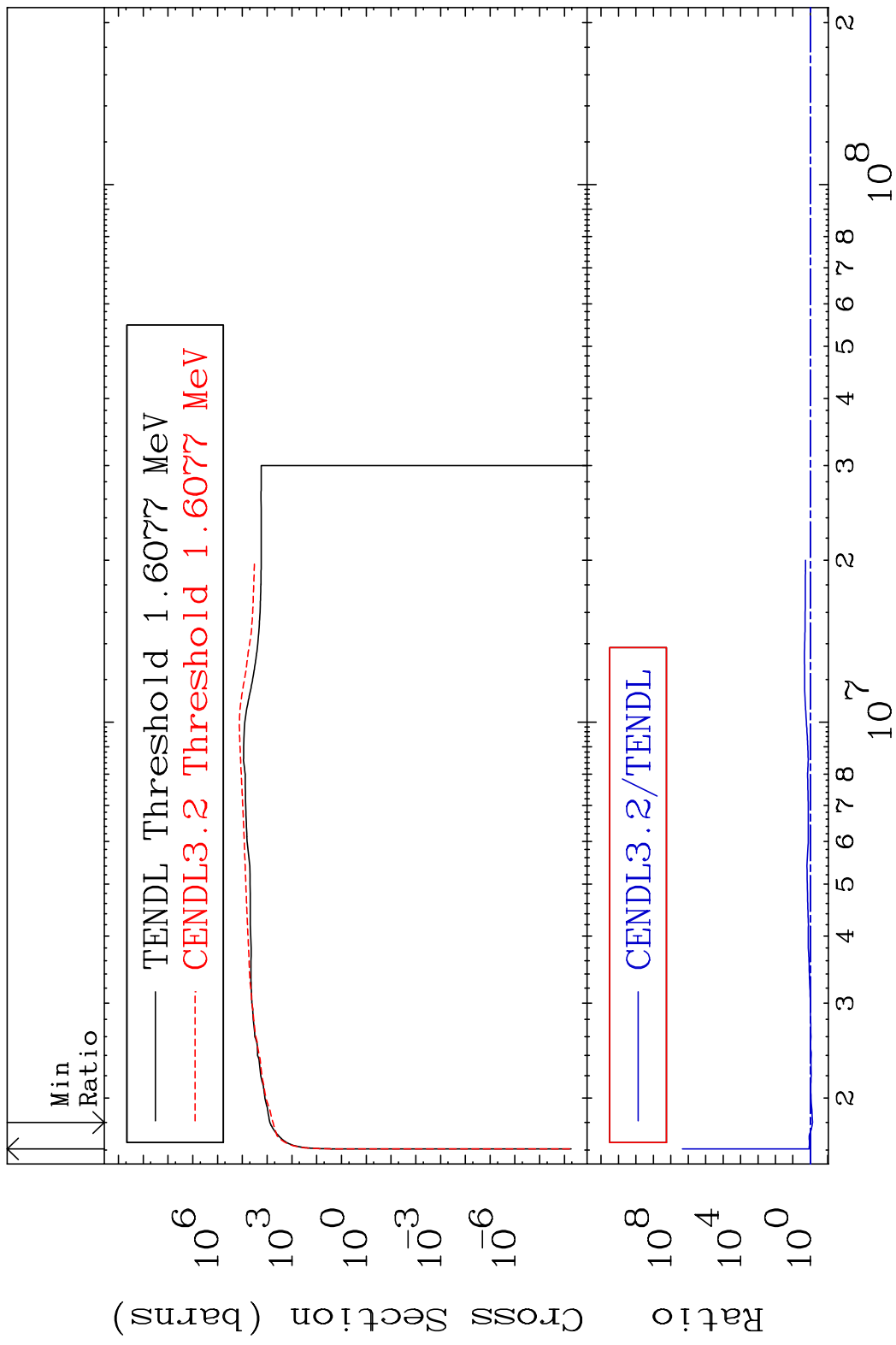


44

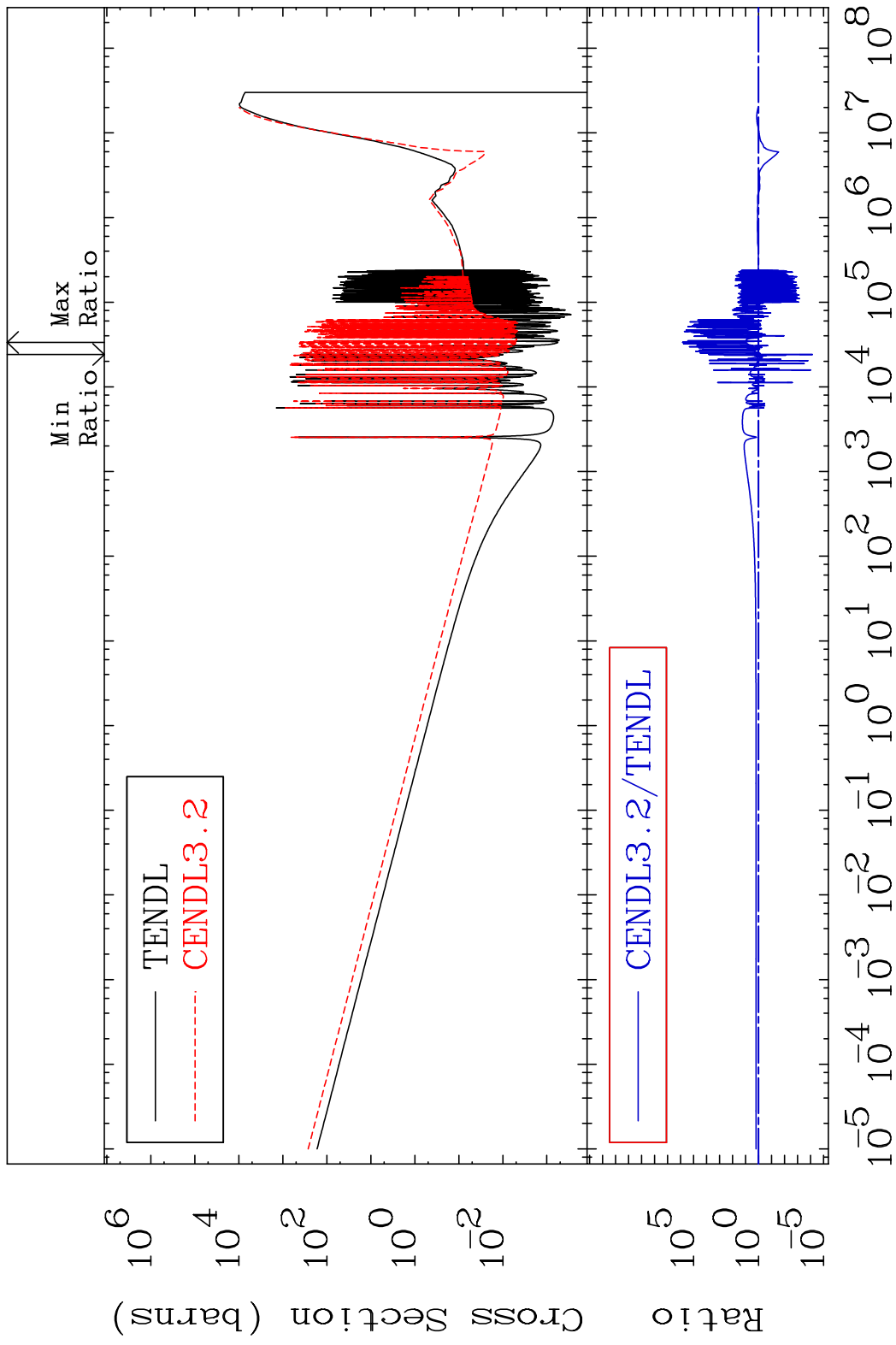
Incident Energy (eV)

58-Ce-140

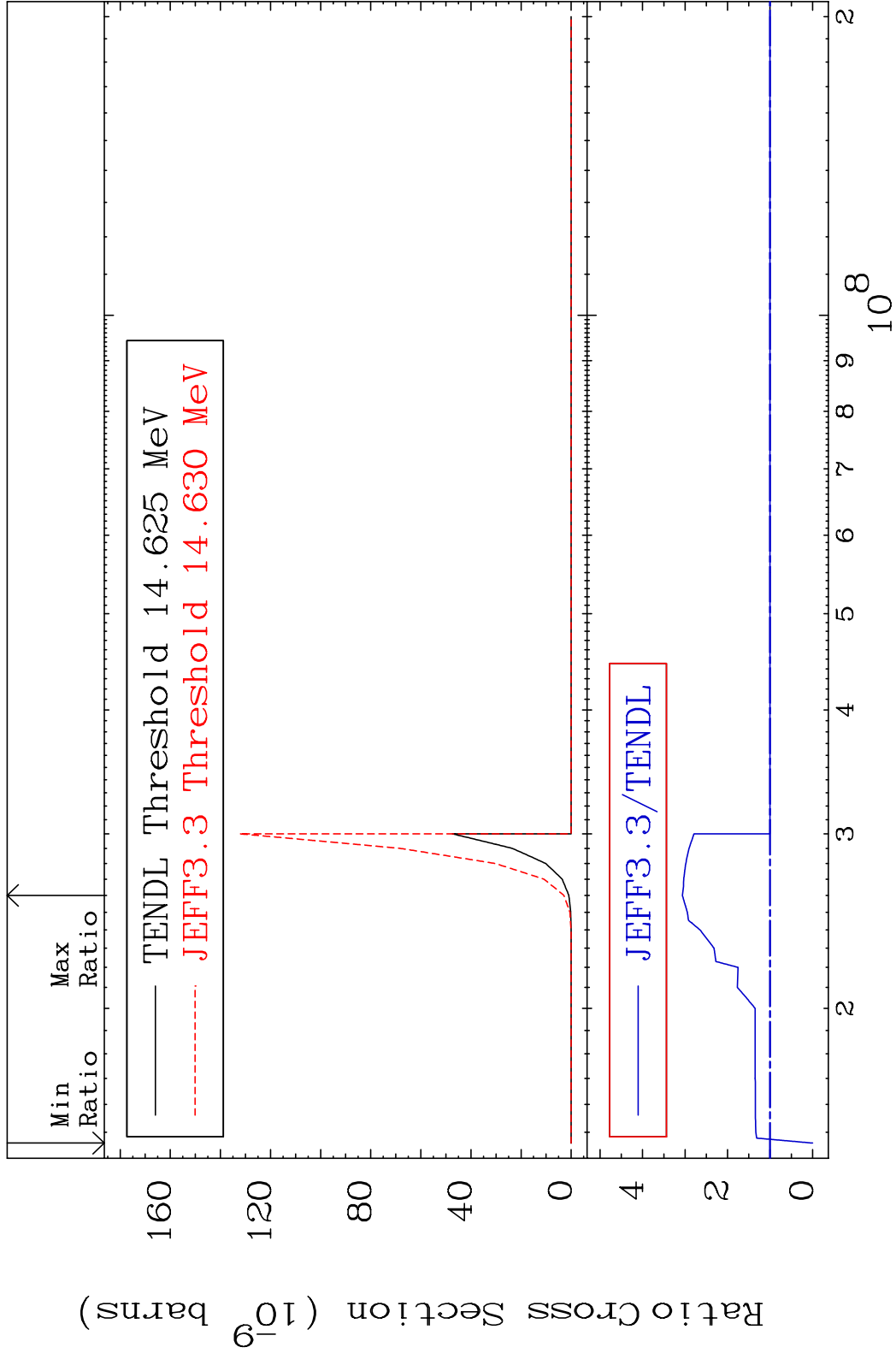
MAT 5837 Dpa inelastic (mt51-91) 58-Ce-140
 Cross Section -25.67 To 9999. %



MAT 5837 Dpa disappearance (mt102 -120) 58-Ce-140
 Cross Section -99.99 To 9999. %



MAT 5837 (n,p) t 58-Ce-140
 Cross Section -100.0 To 206.4 %

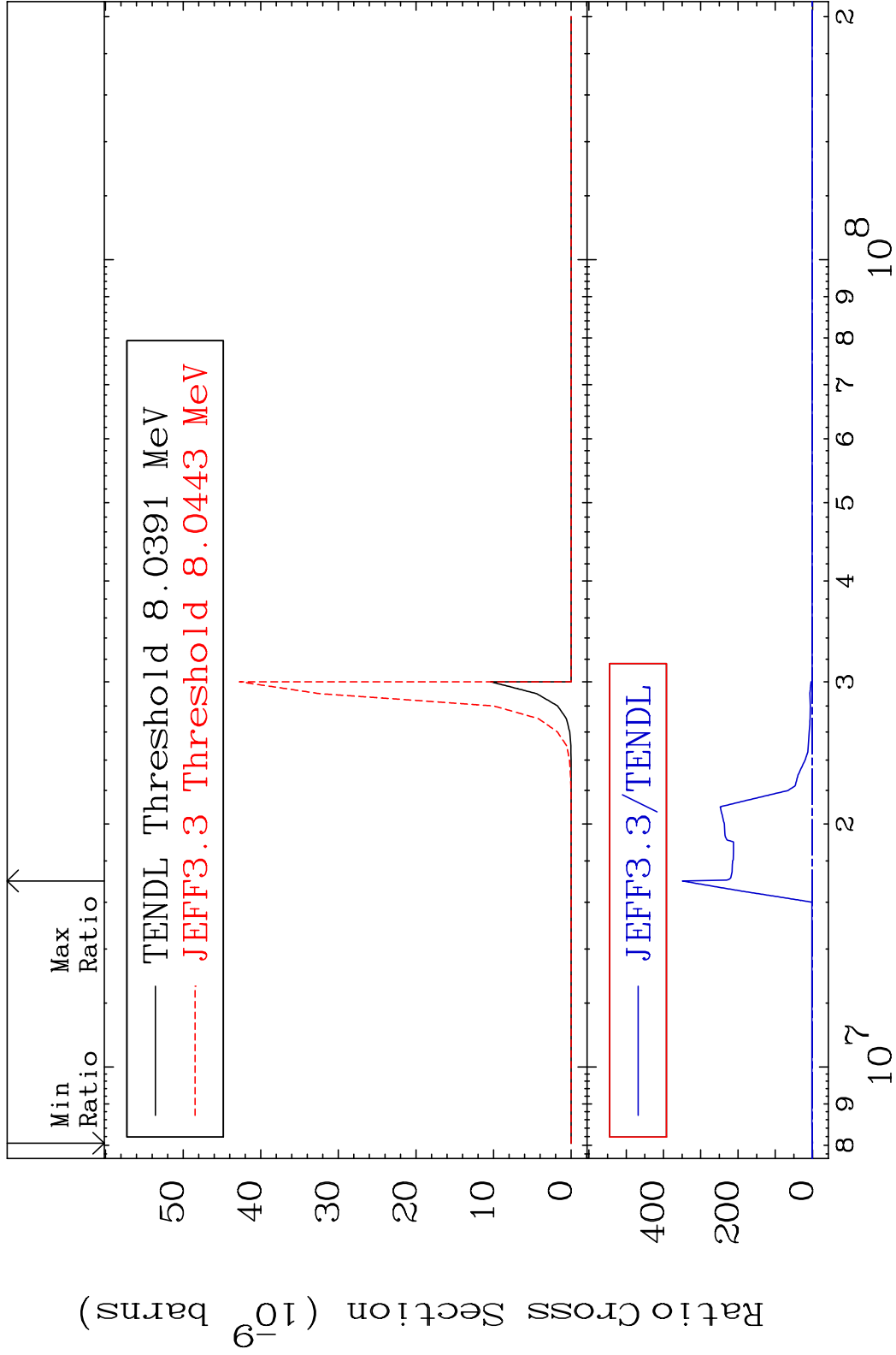


MAT 5837

(n,d) α

58-Ce-140

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

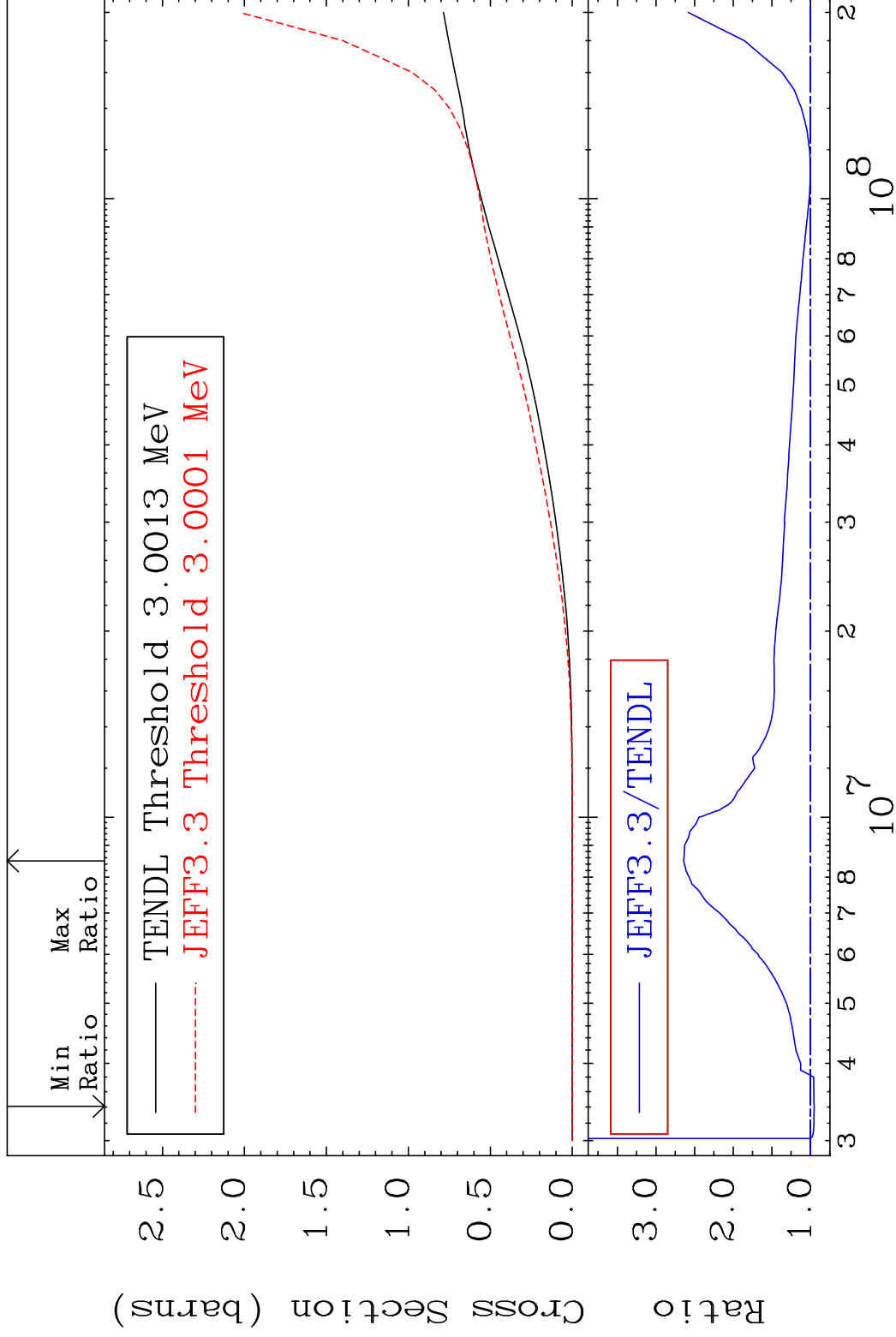
58-Ce-140

MAT 5837

Hydrogen Production

58-Ce-140

Cross Section -4.785 To 164.1 %



49

Incident Energy (eV)

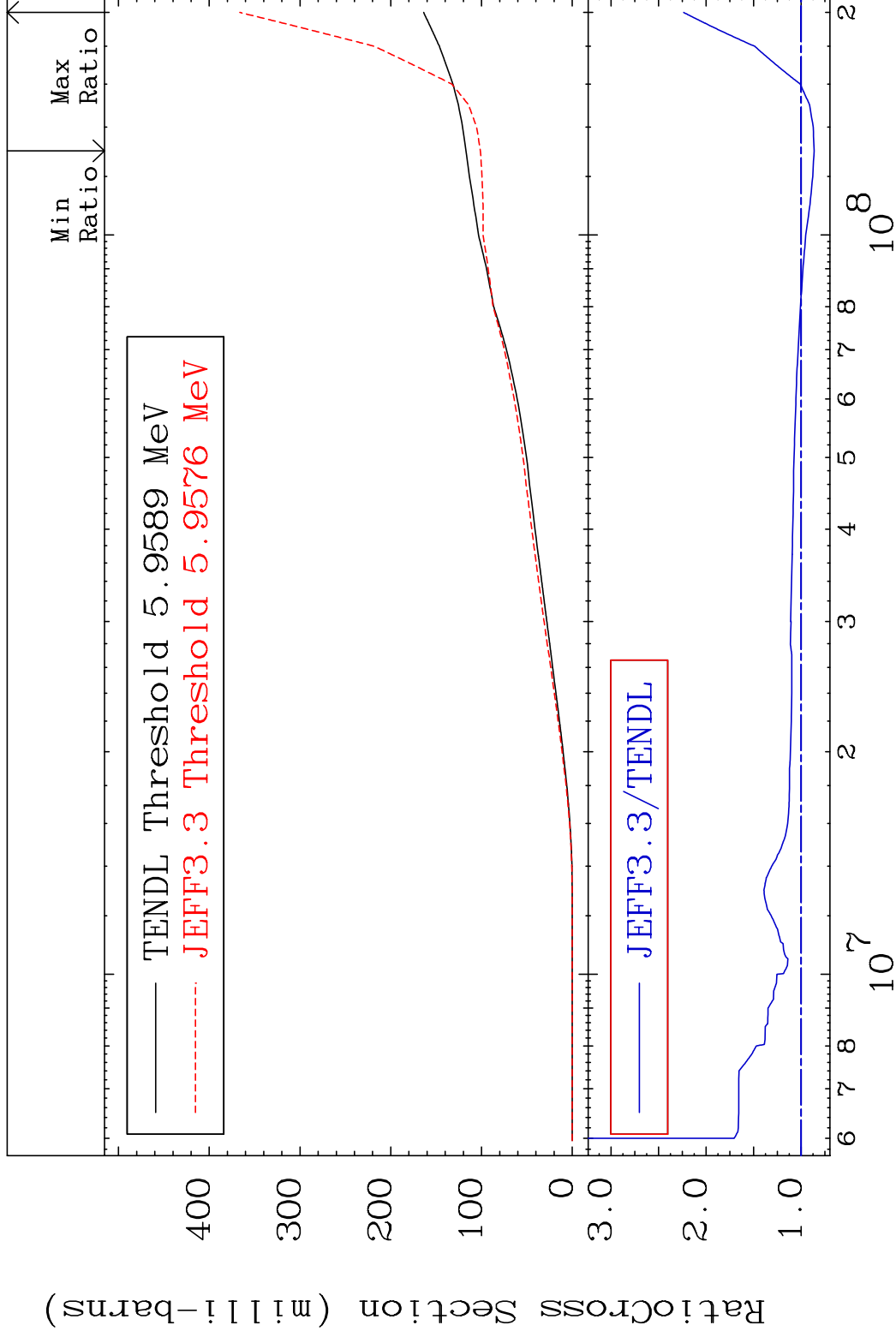
58-Ce-140

MAT 5837

Deuterium Production

58-Ce-140

Cross Section -13.65 To 123.6 %



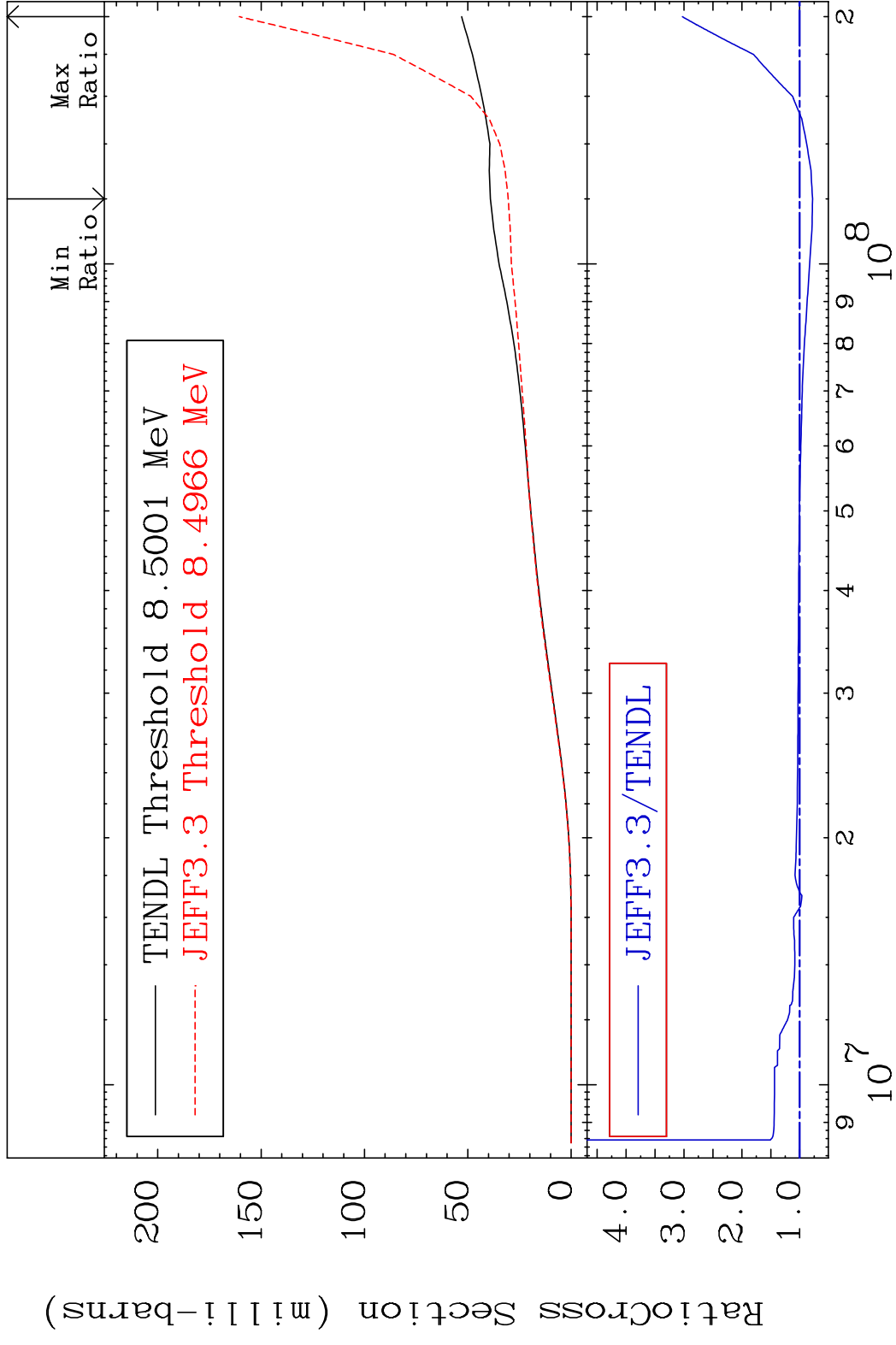
MAT 5837

Tritium Production

58-Ce-140

Cross Section

-22.18 To 202.8 %

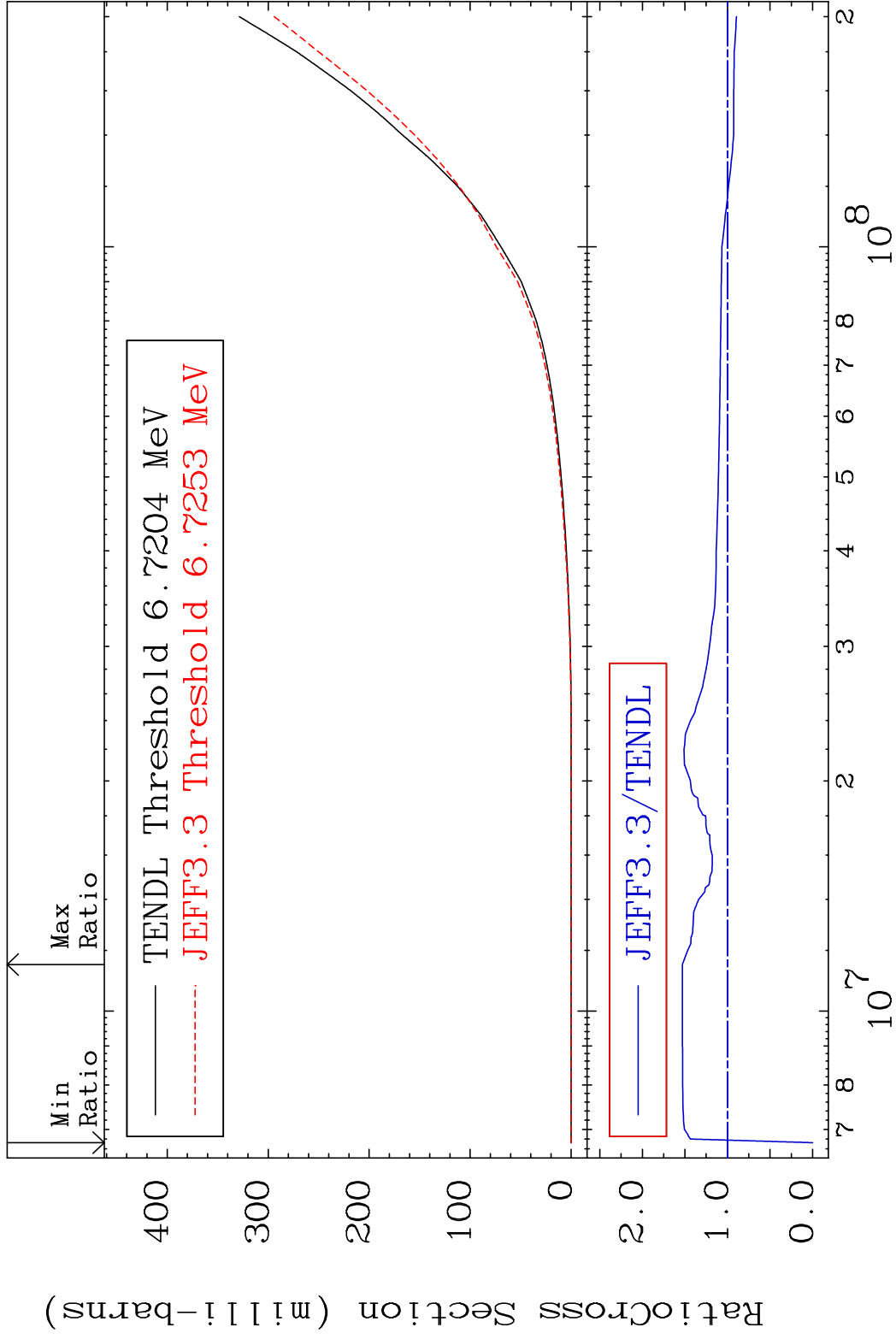


MAT 5837

He-3 Production

58-Ce-140

Cross Section -100.0 To 53.03 %

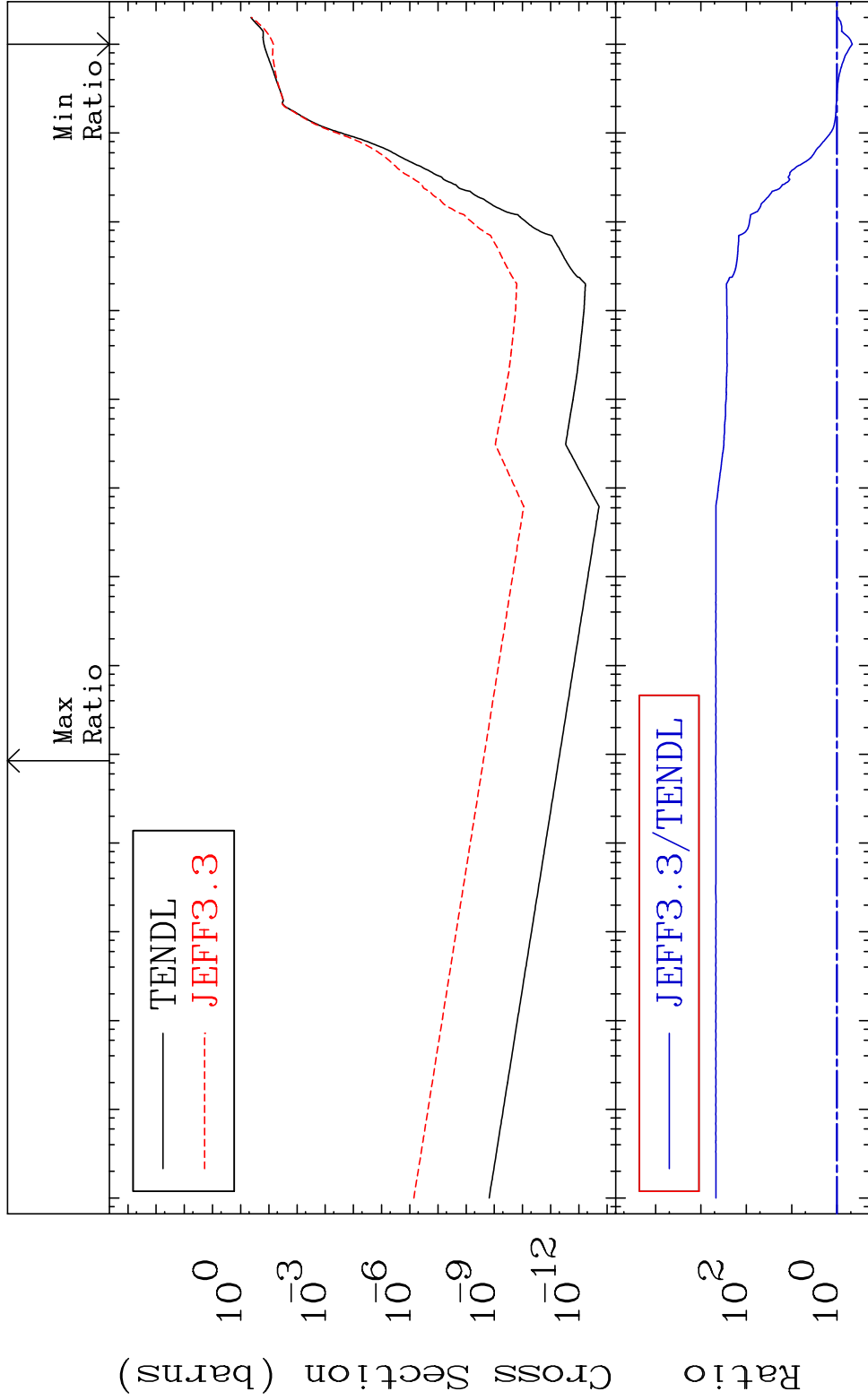


MAT 5837

He-4 Production

58-Ce-140

Cross Section -53.62 To 9999. %

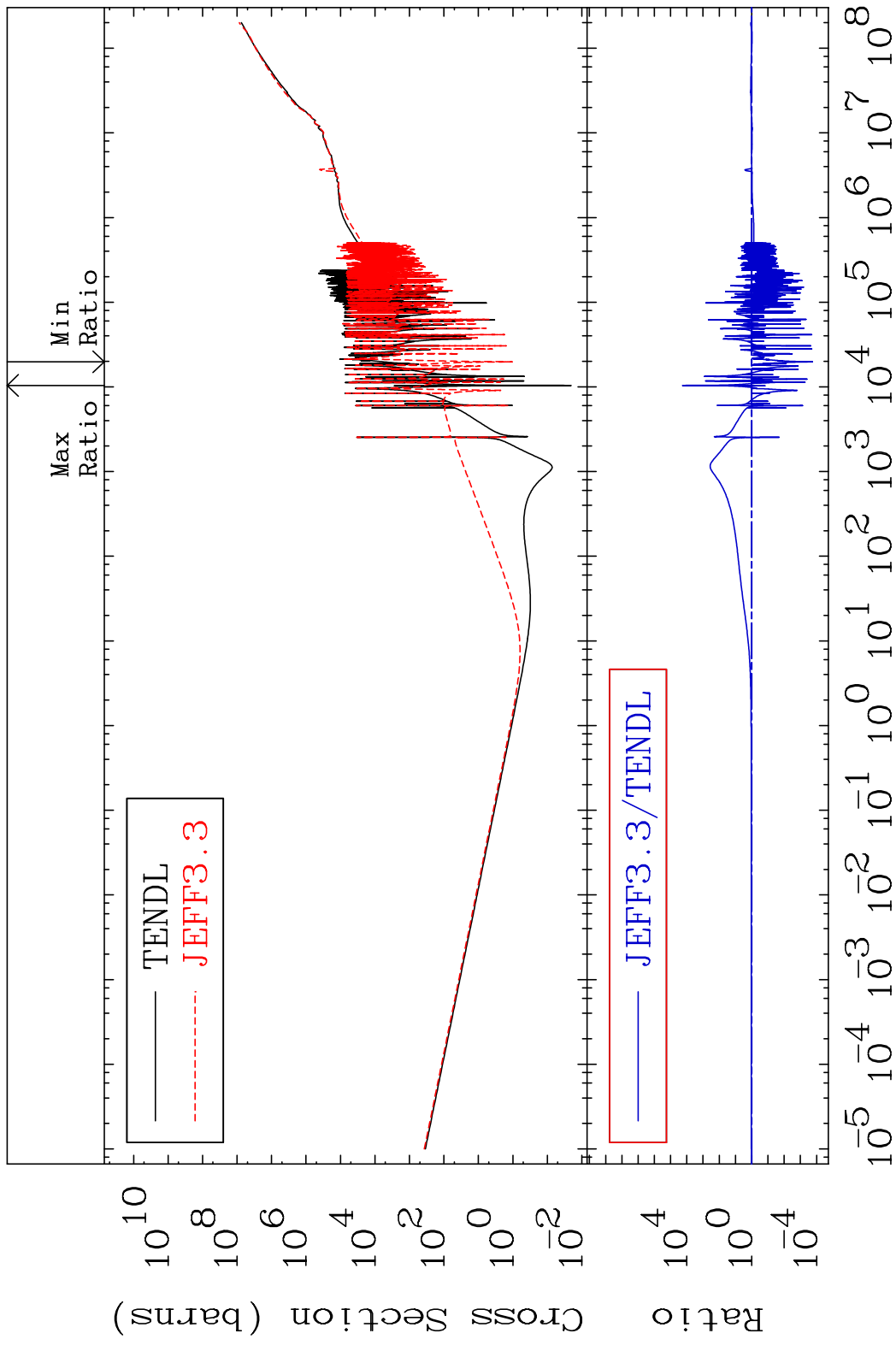


53

Incident Energy (eV)

58-Ce-140

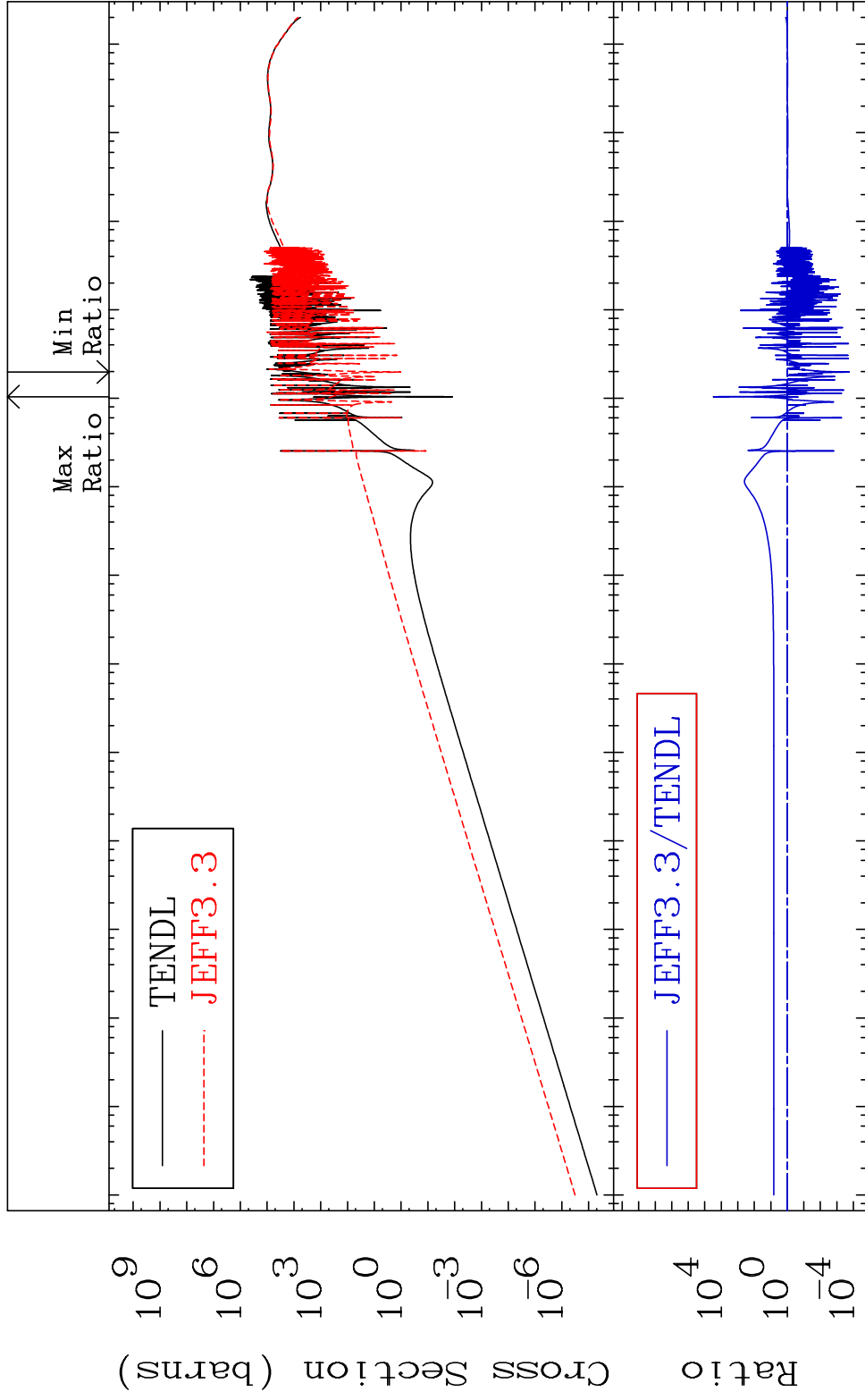
MAT 5837 Kerma total (eV-barns) 58-Ce-140
 Cross Section -99.98 To 9999. %



MAT 5837

Kerma elastic
Cross Section

58-Ce-140
-99.98 To 9999. %

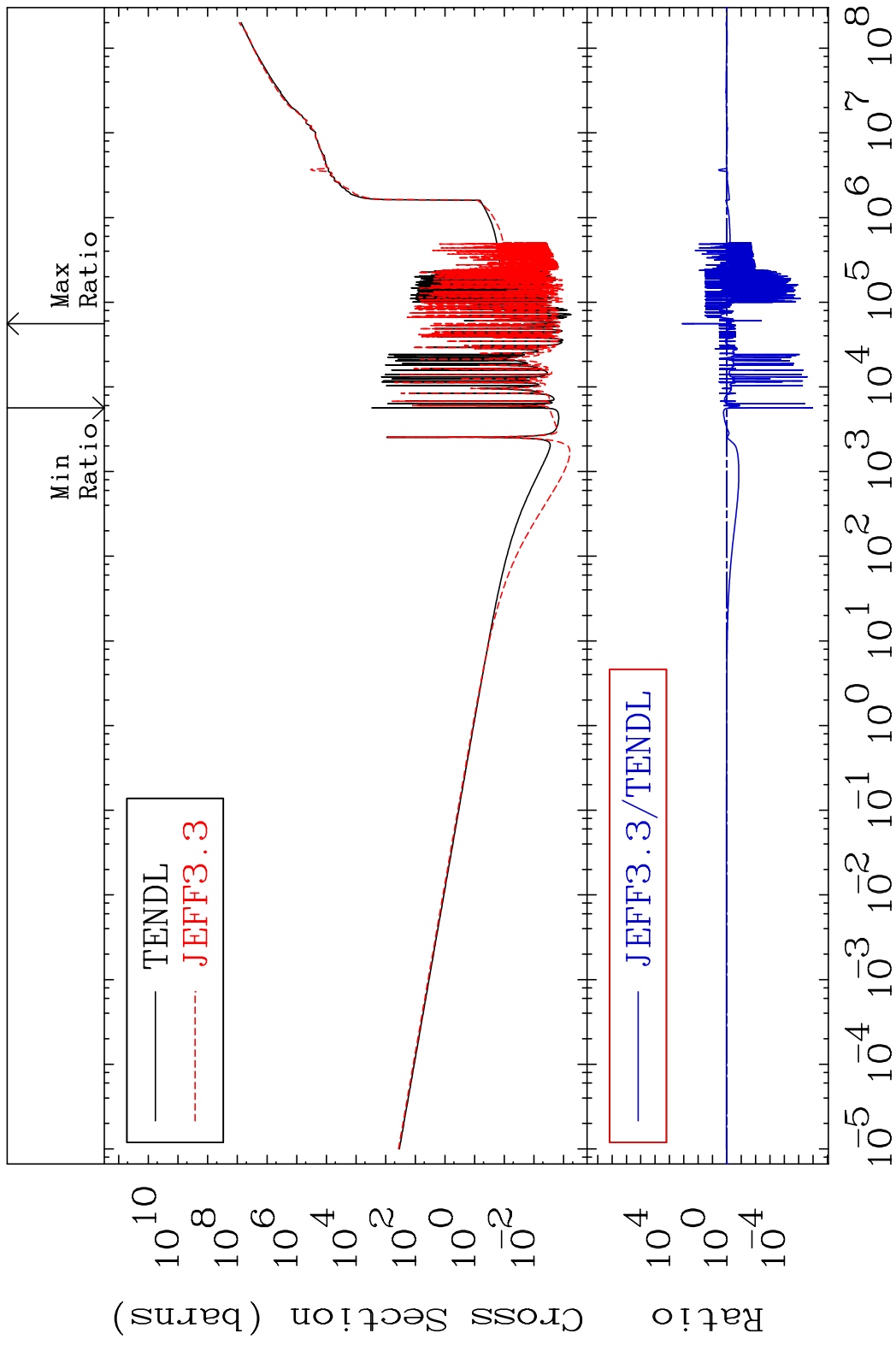


55

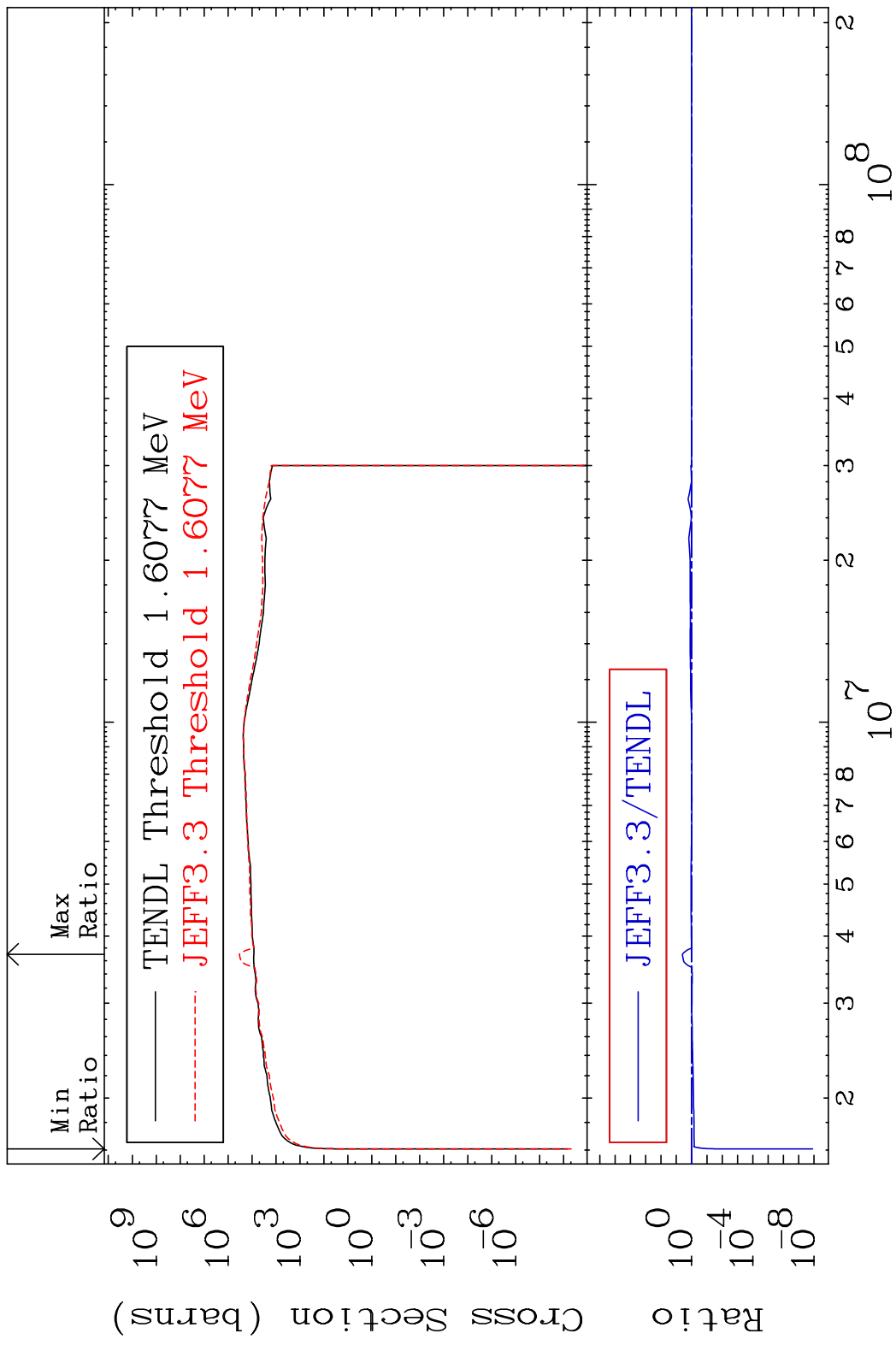
Incident Energy (eV)

58-Ce-140

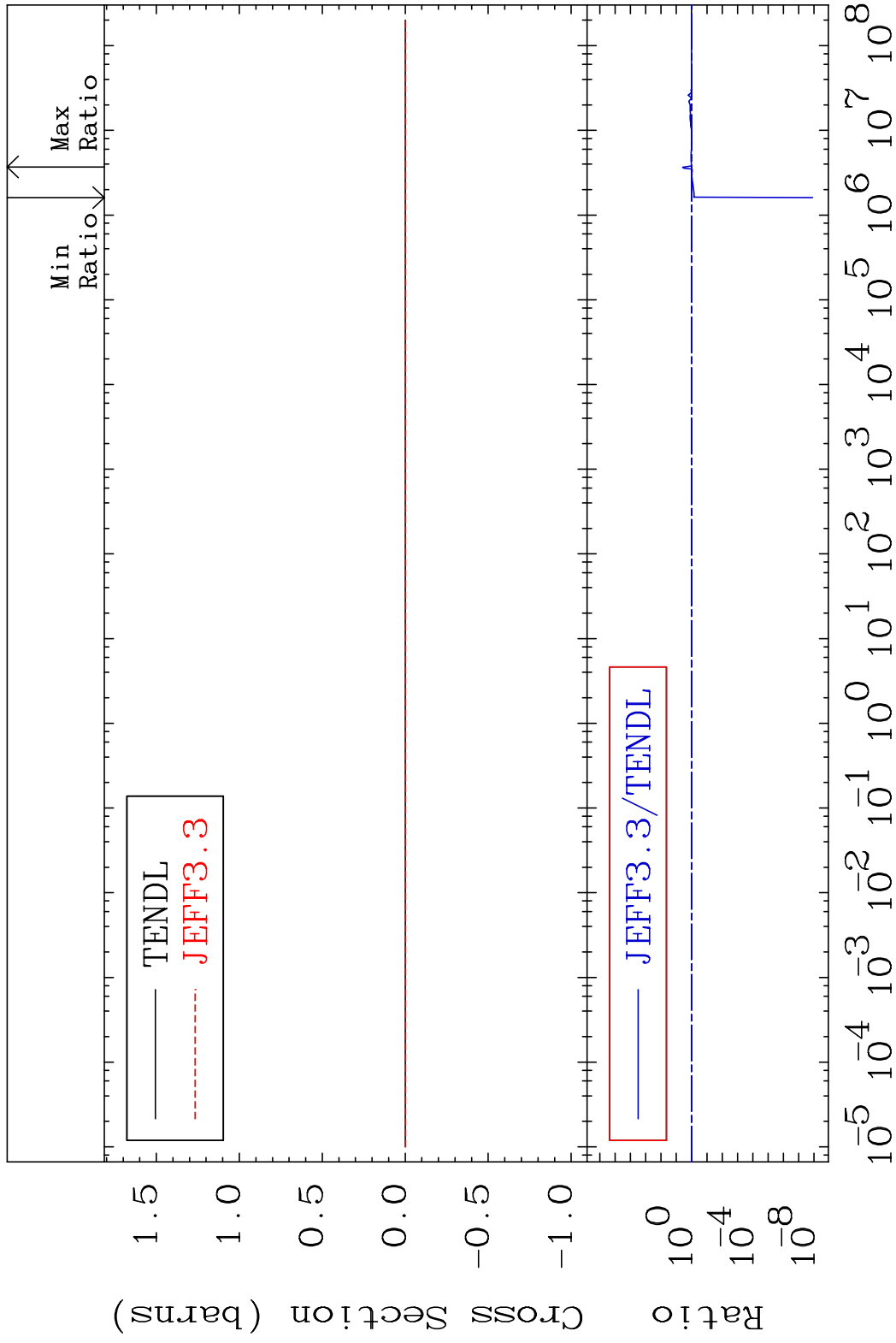
MAT 5837 Kerma non-elastic (all but mt2) 58-Ce-140
 Cross Section -100.0 To 9999. %



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 %

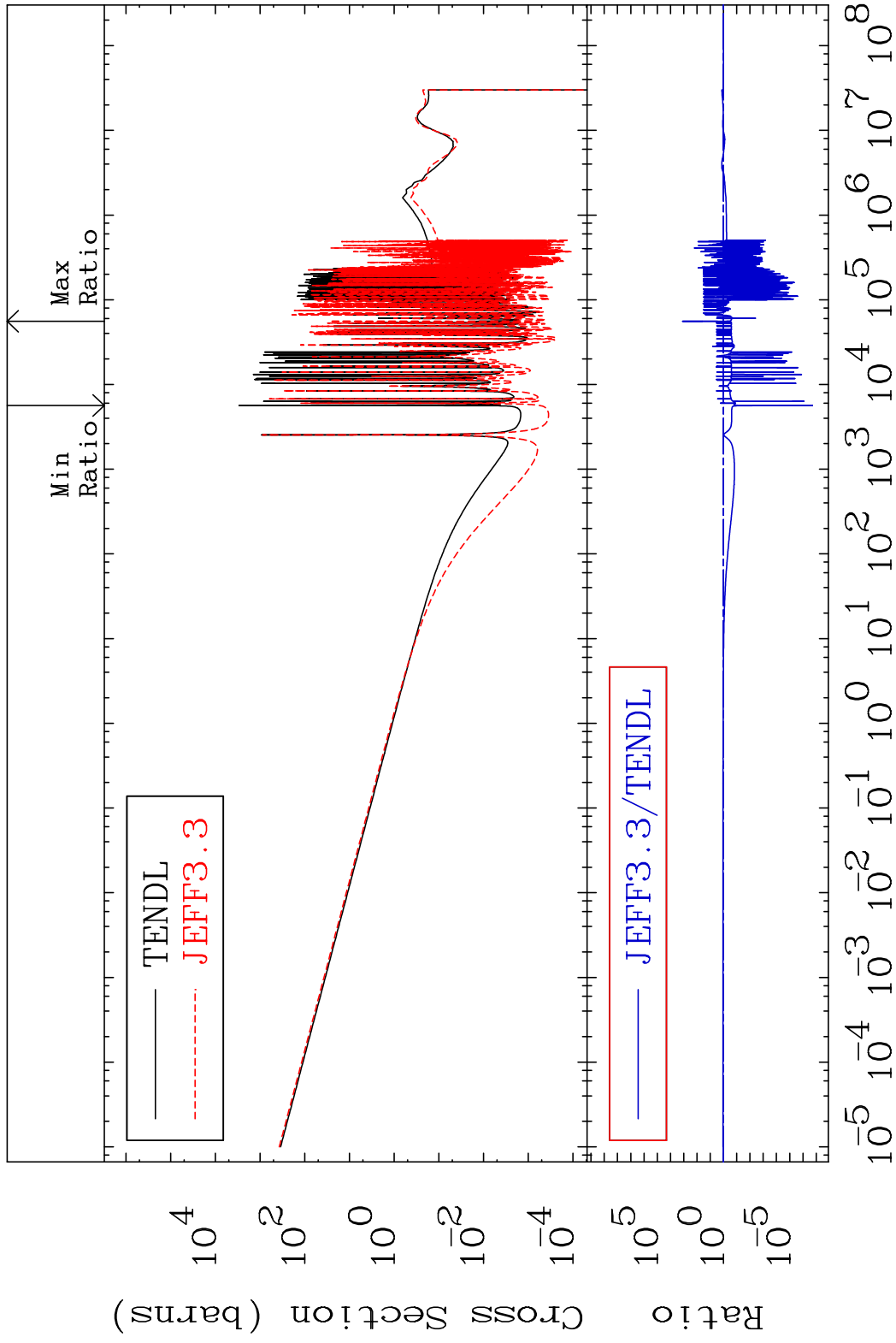


MAT 5837

Kerma capture (mt102)

58-Ce-140

Cross Section -100.0 To 9999. %

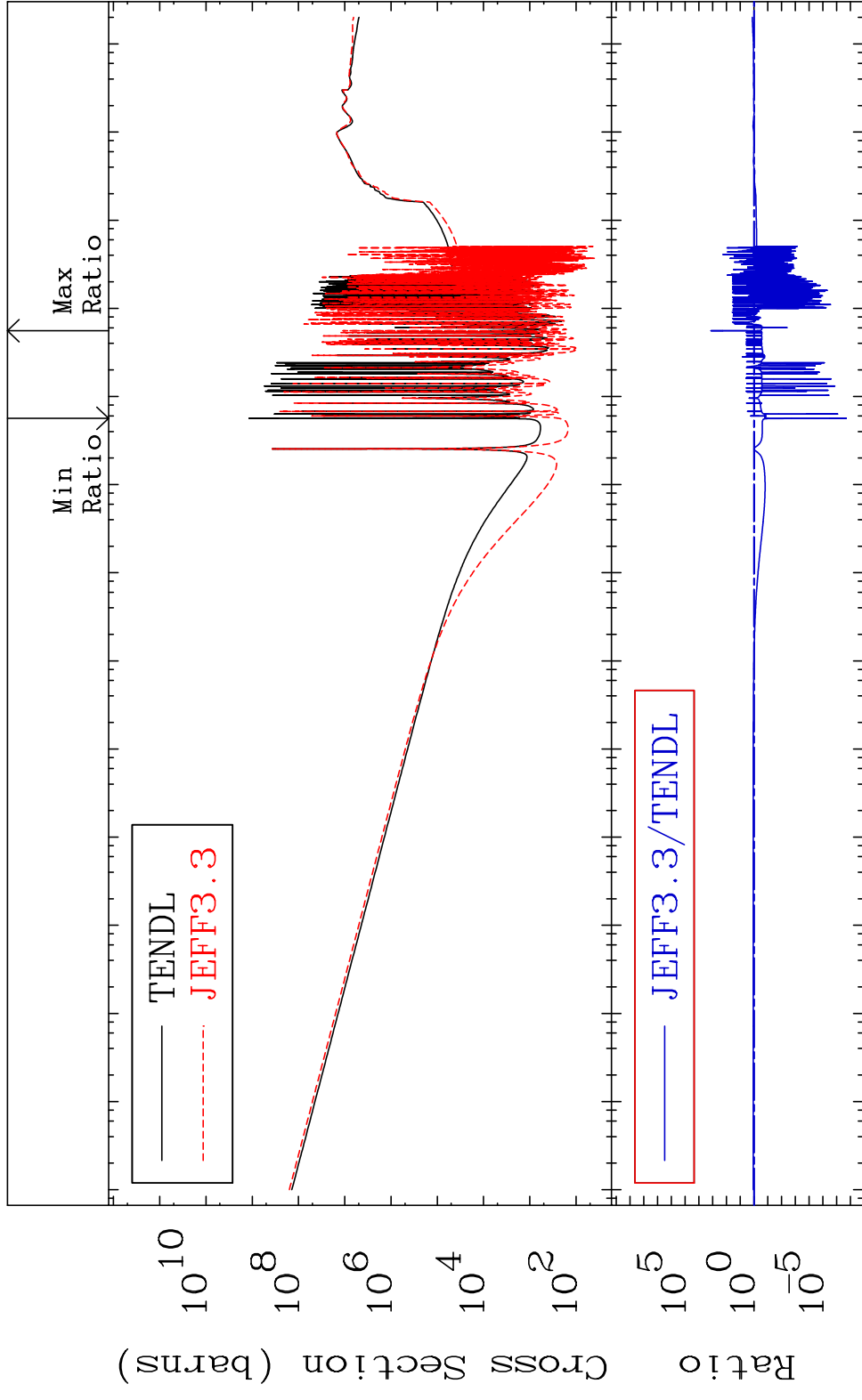


59

Incident Energy (eV)

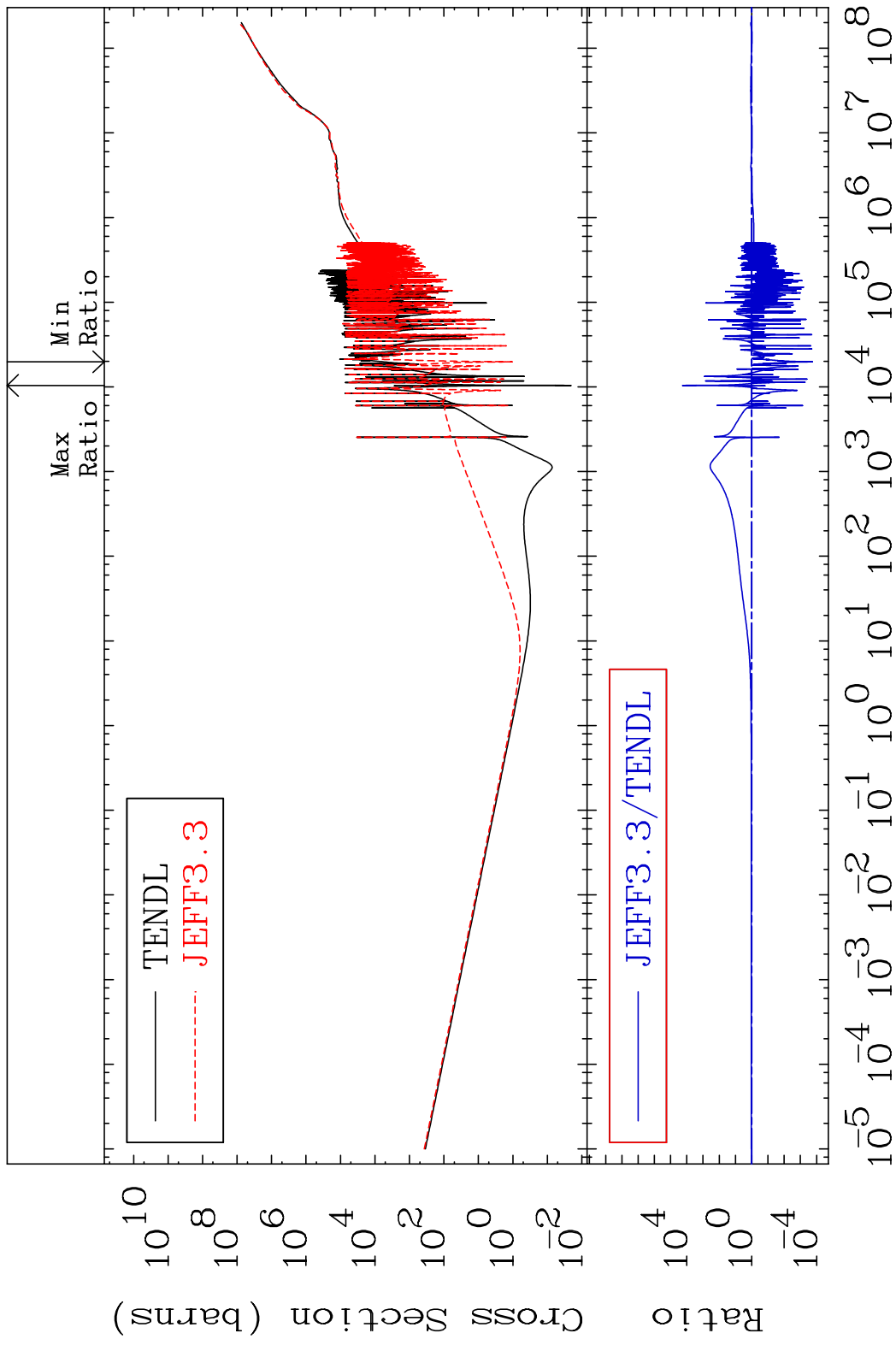
58-Ce-140

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. %

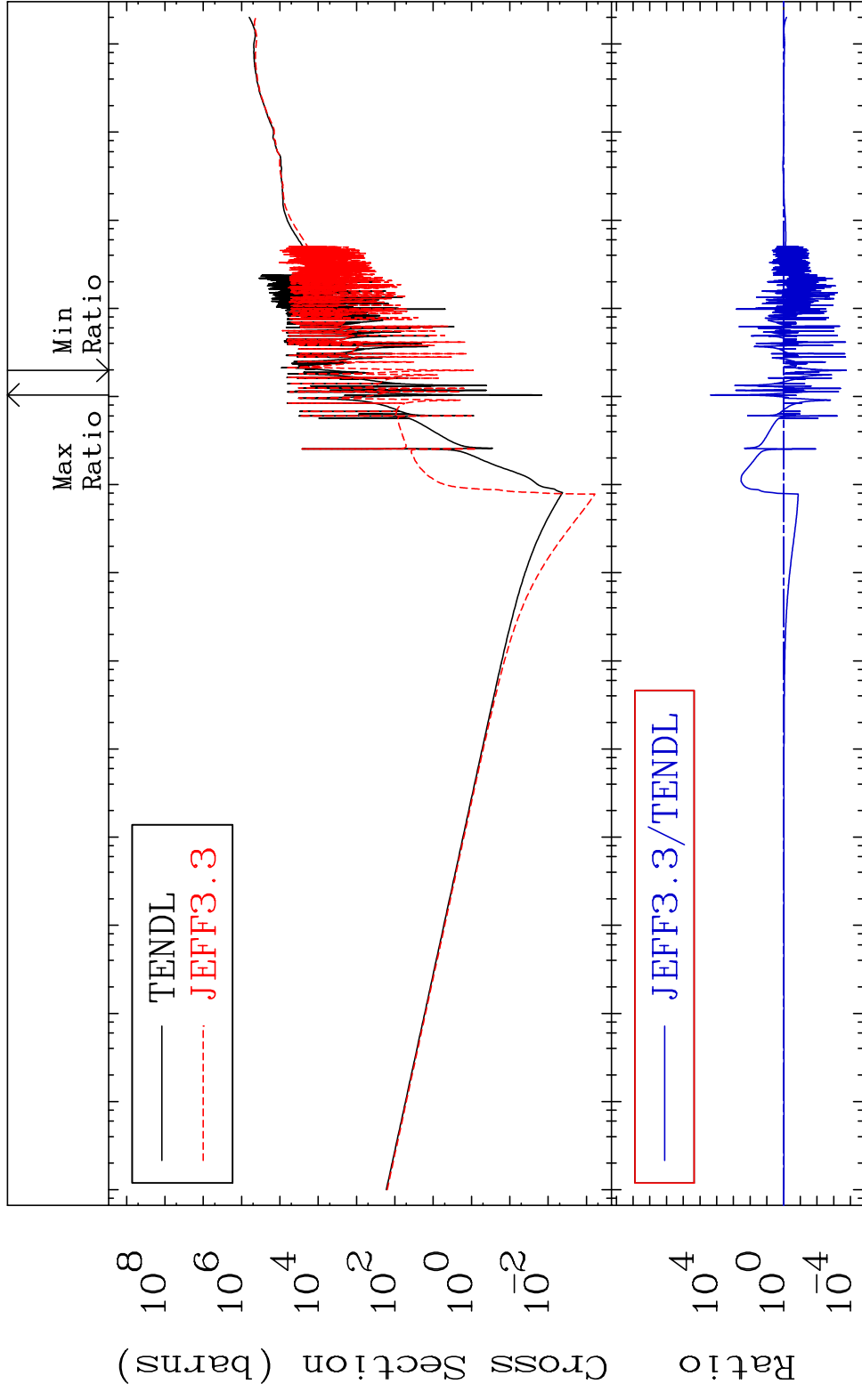


MAT 5837

Dpa total (eV-barns)

58-Ce-140

Cross Section -99.98 To 9999. %



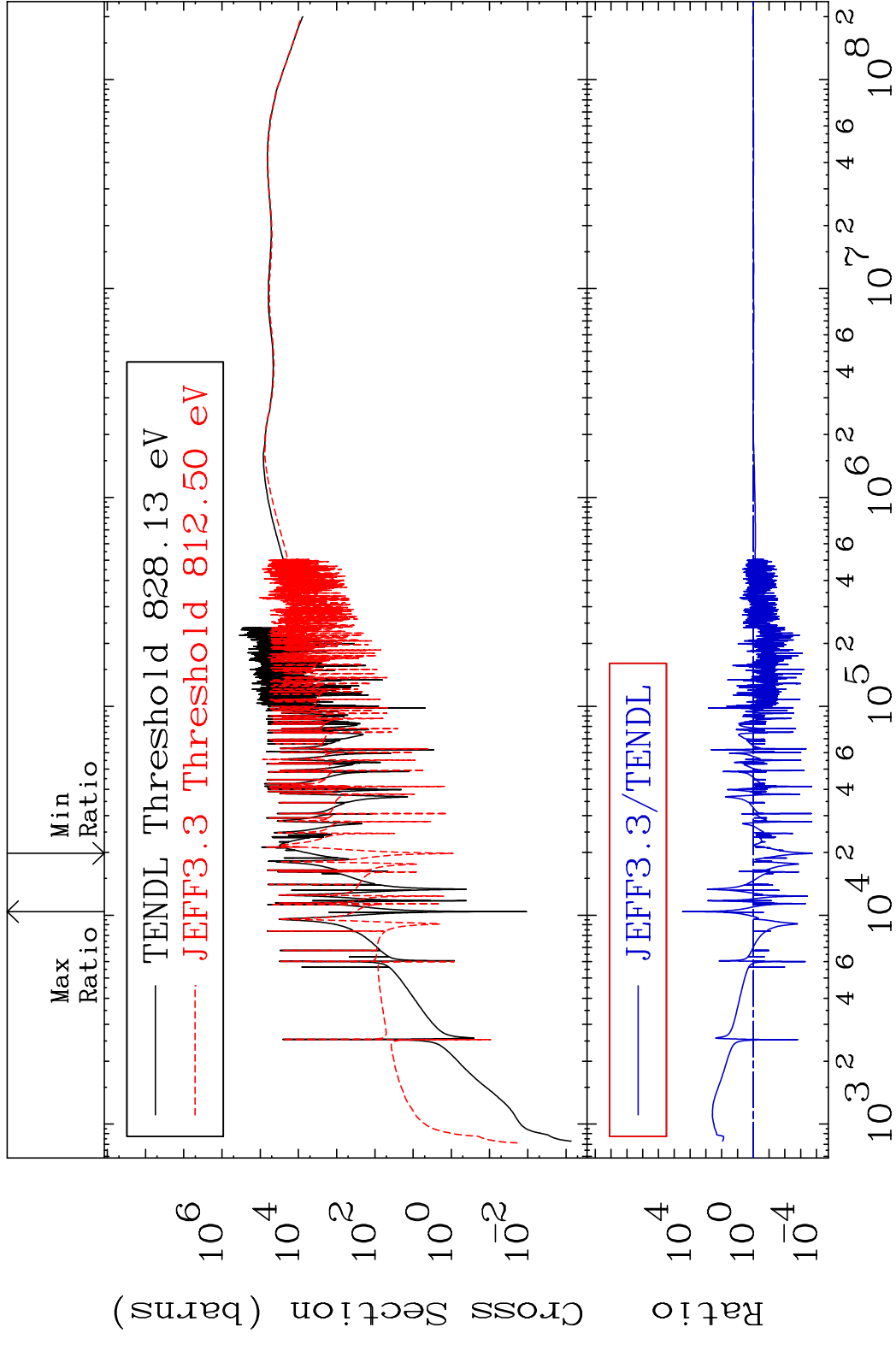
MAT 5837

Dpa elastic (mt2)

58-Ce-140

Cross Section

-99.98 To 9999. %

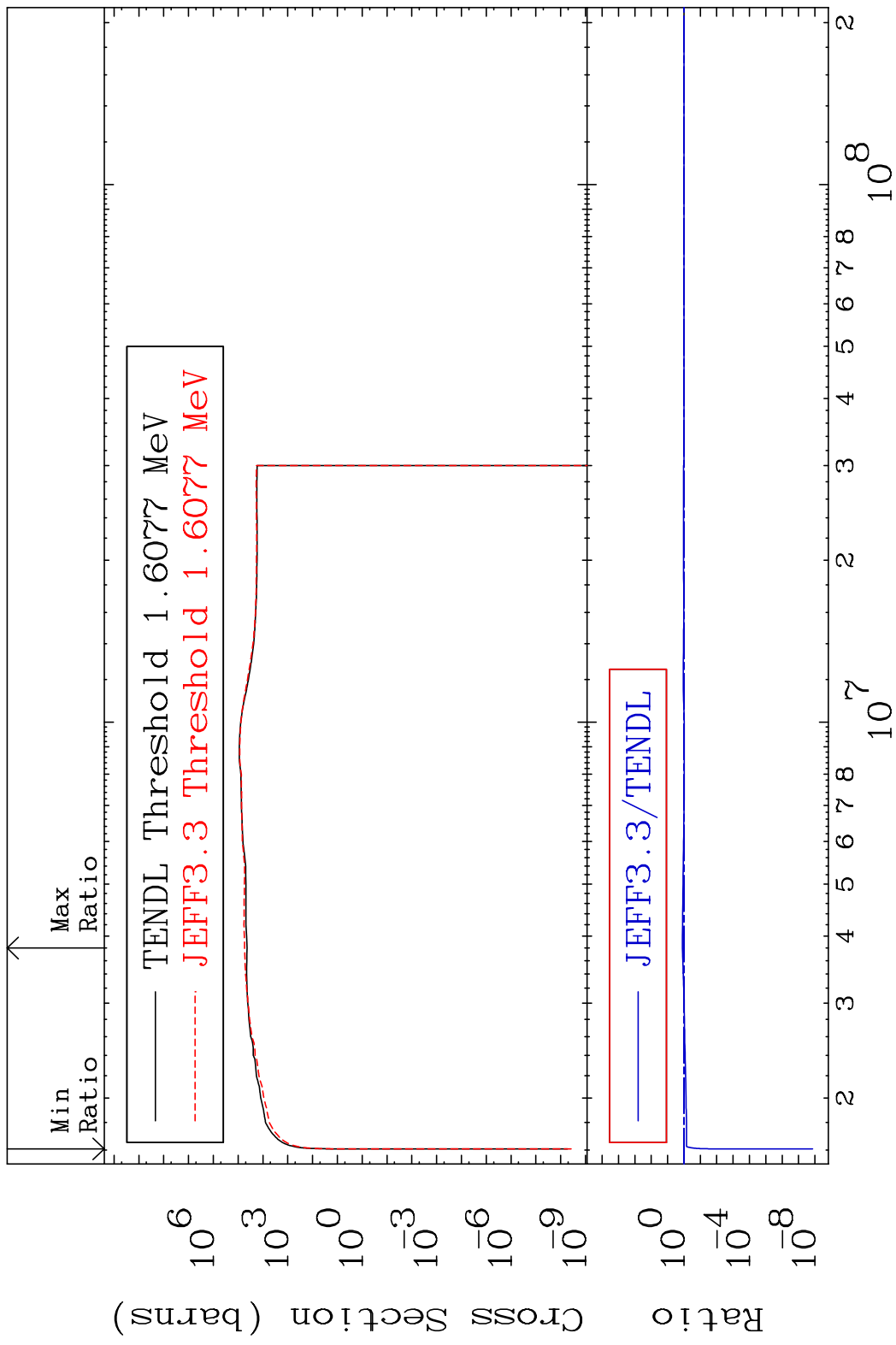


63

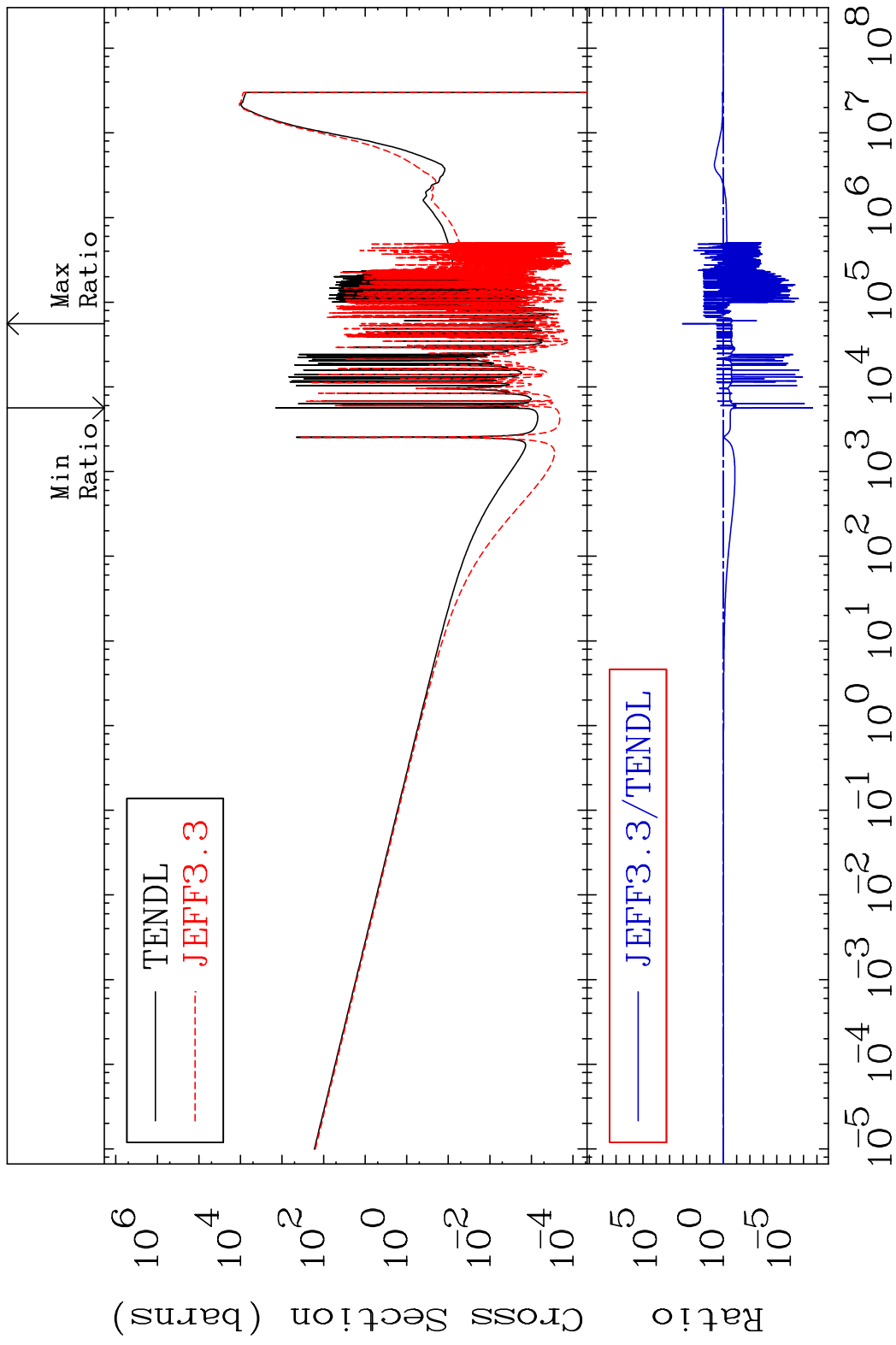
Incident Energy (eV)

58-Ce-140

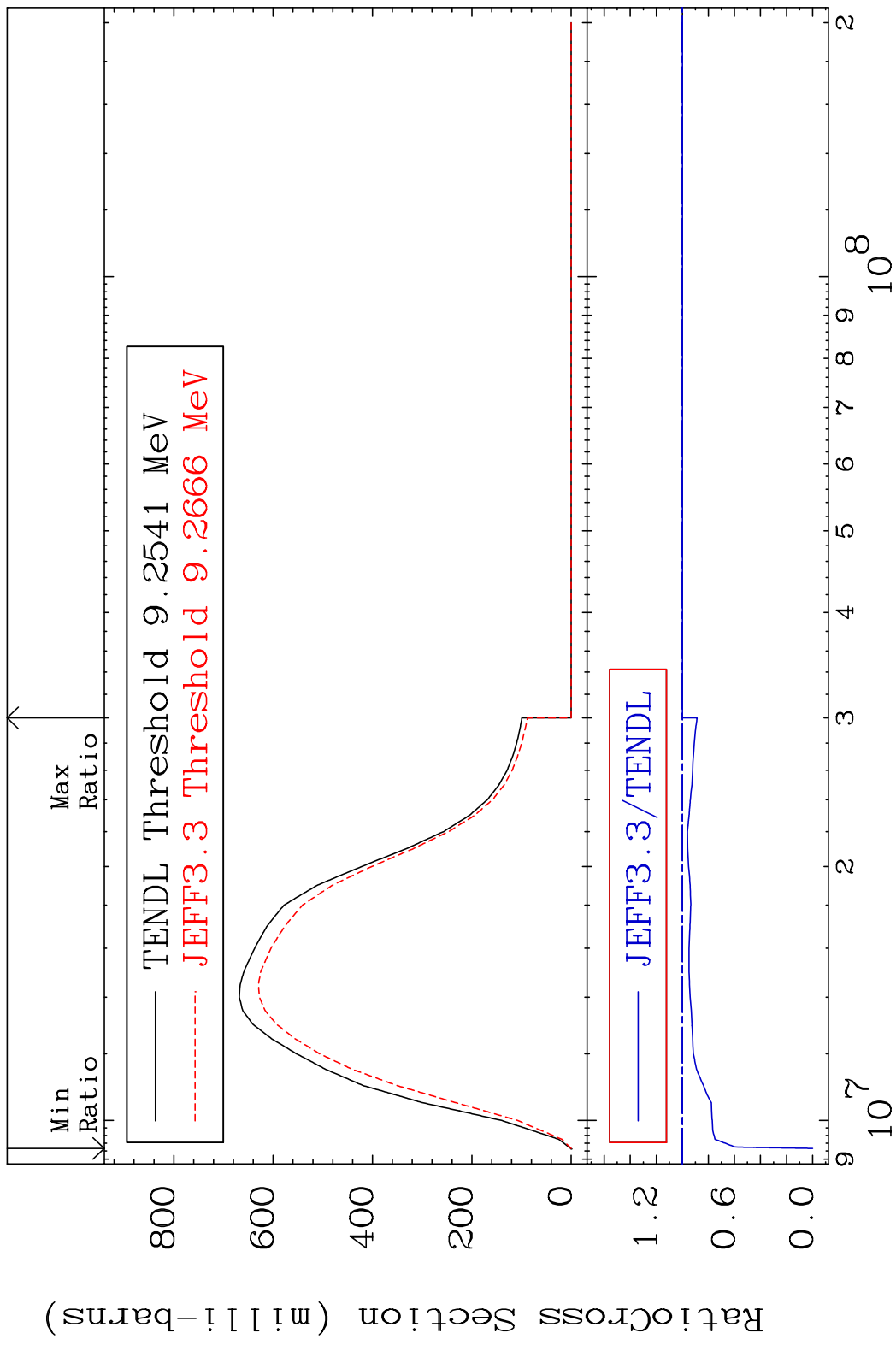
MAT 5837 Dpa inelastic (mt51-91) 58-Ce-140
 Cross Section -100.0 To 25.27 %



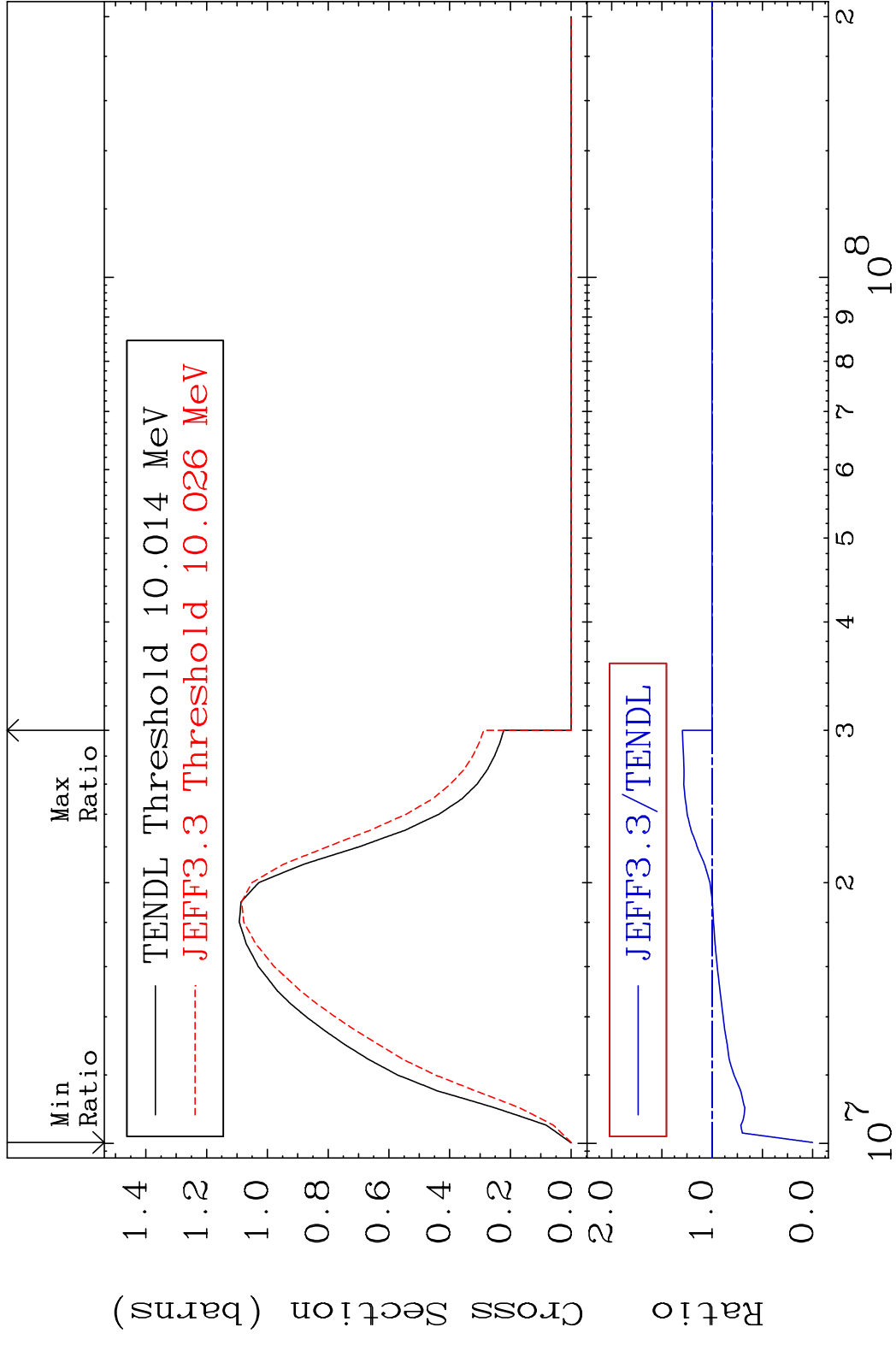
MAT 5837 Dpa disappearance (mt102 -120) 58-Ce-140
 Cross Section -100.0 To 9999. %



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

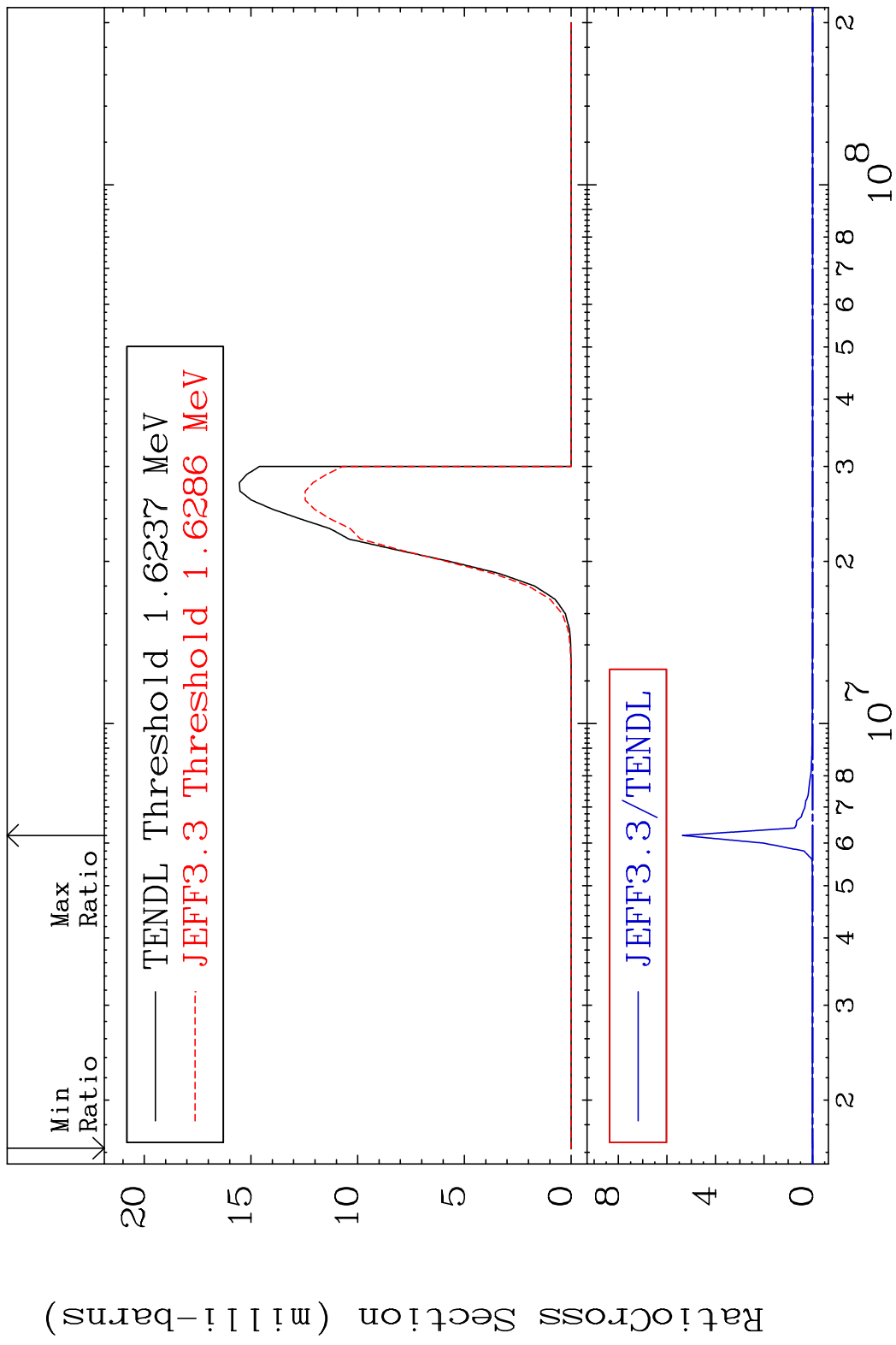


MAT 5837 (n, 2n): 58-Ce-139m2 58-Ce-140
 Radionuclide Production Cross Section Ratio 29.67 %

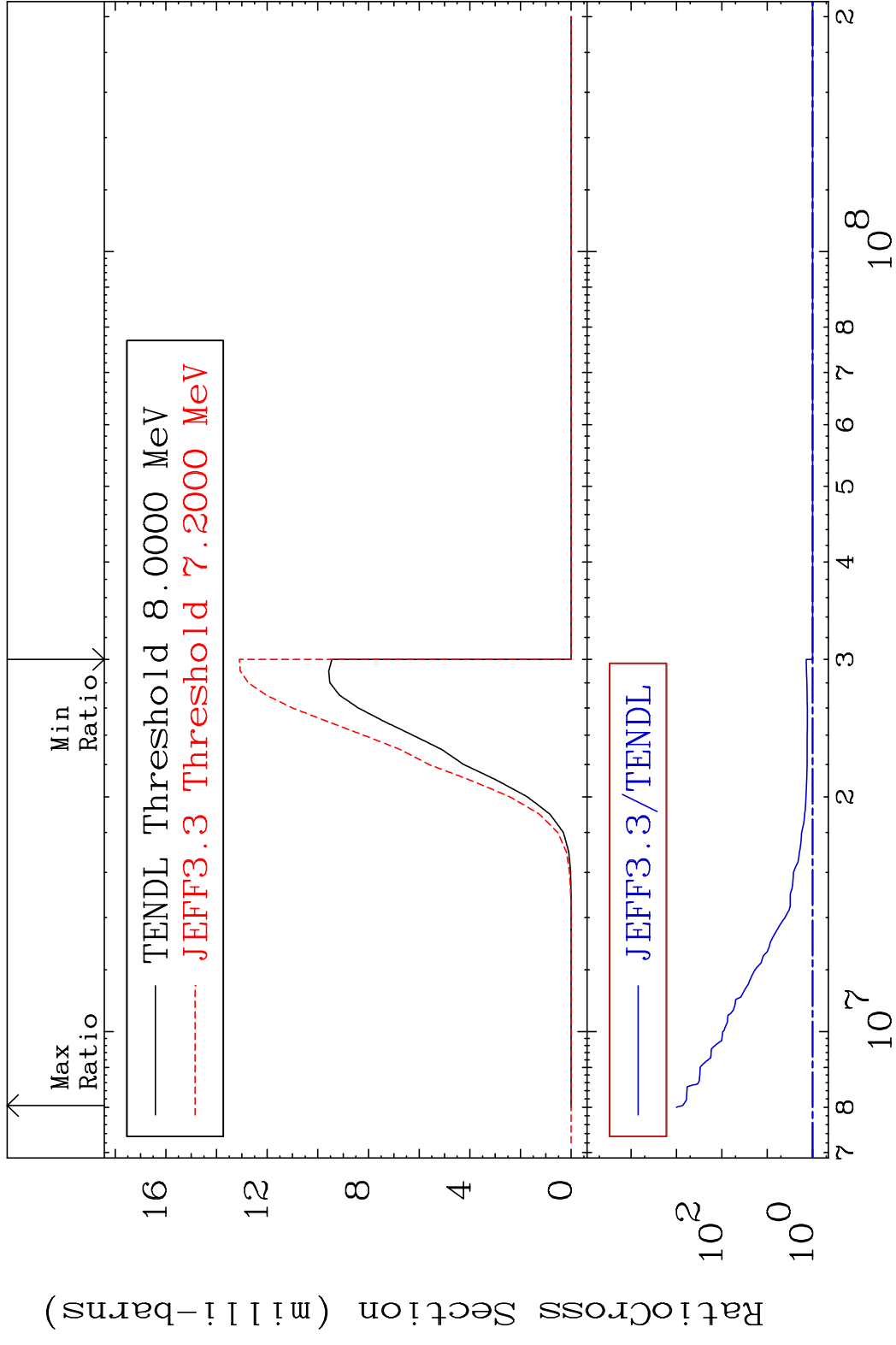


67 Incident Energy (eV) 58-Ce-140

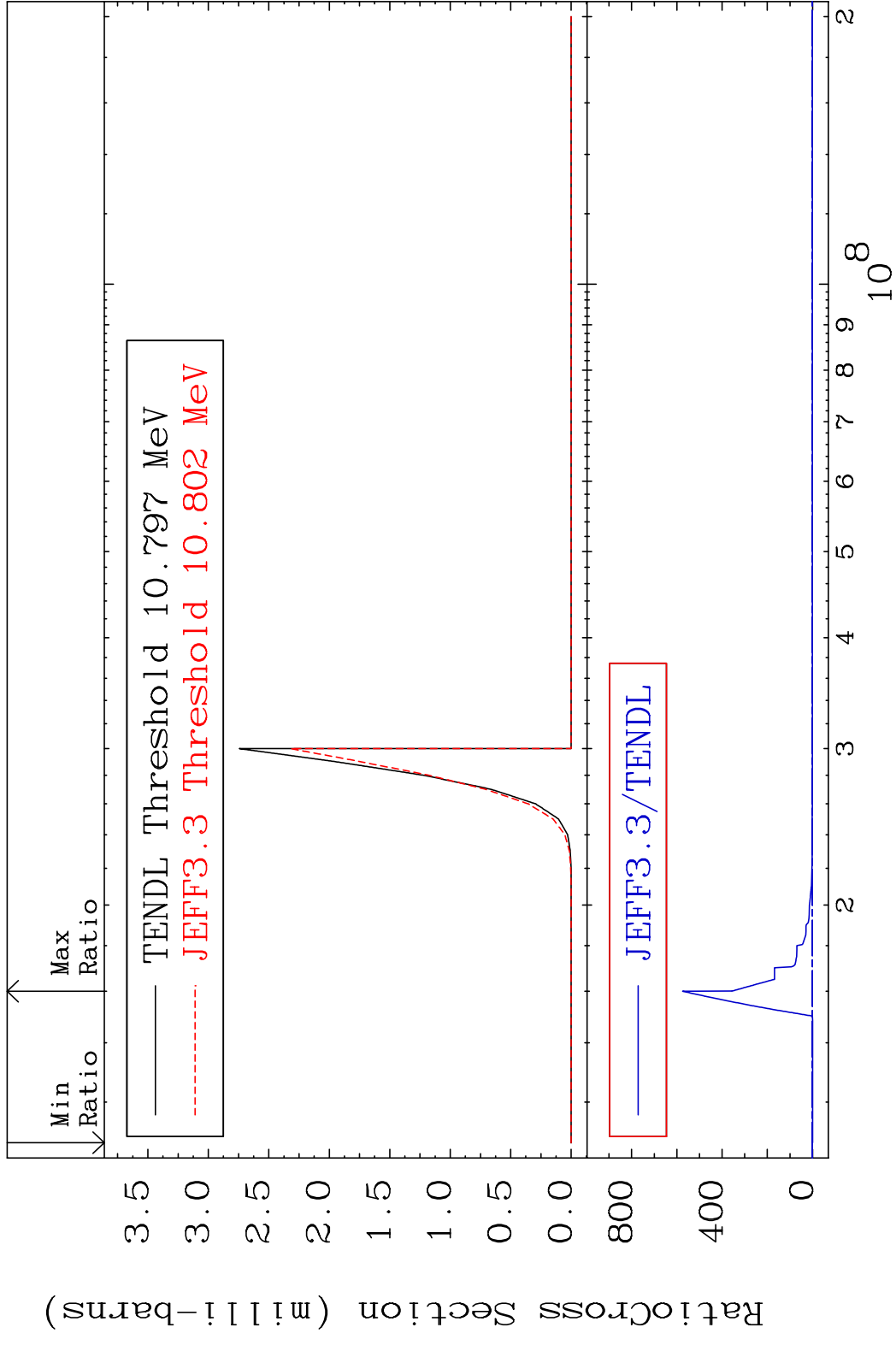
MAT 5837 (n, n') α :56-Ba-136g 58-Ce-140
 Radionuclide Production Cross Section Ratio 9999. %

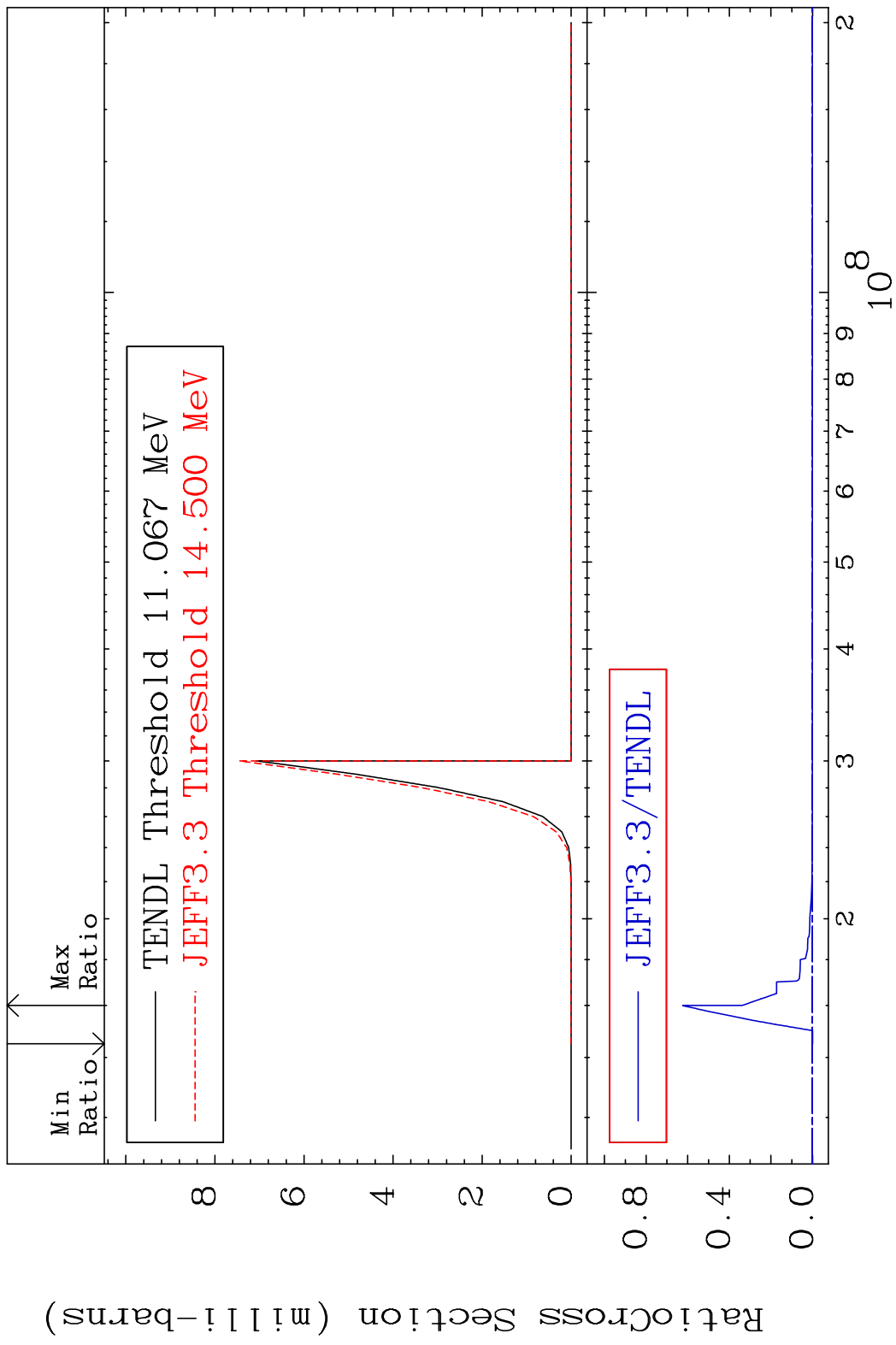


MAT 5837 (n, n') α :56-Ba-136m5 58-Ce-140
 Radionuclide Production Cross Section 9999. %

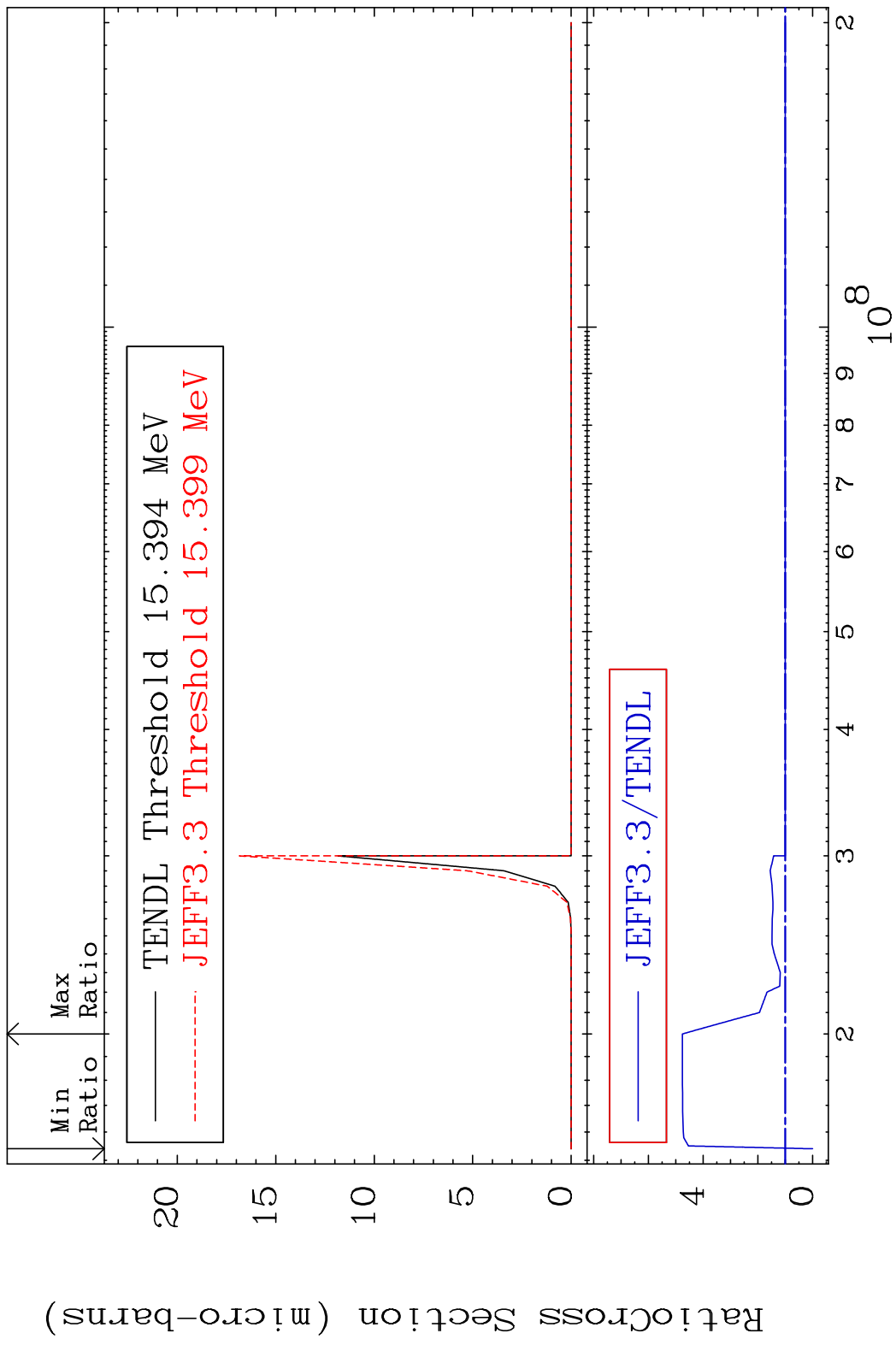


MAT 5837 (n,2n) α :56-Ba-135g 58-Ce-140
 Radionuclide Production Cross Section 100.00 dtd 9999. %

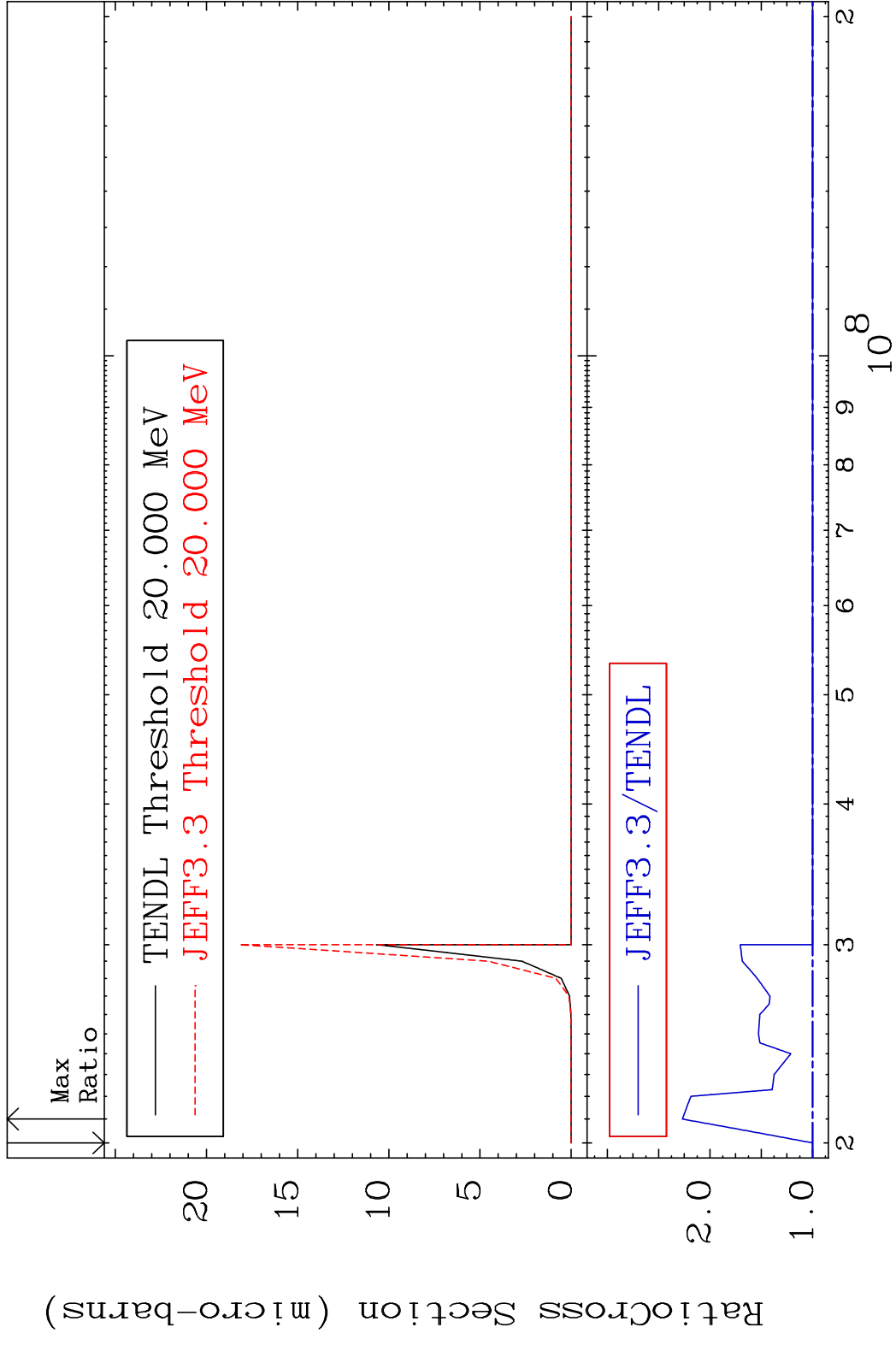




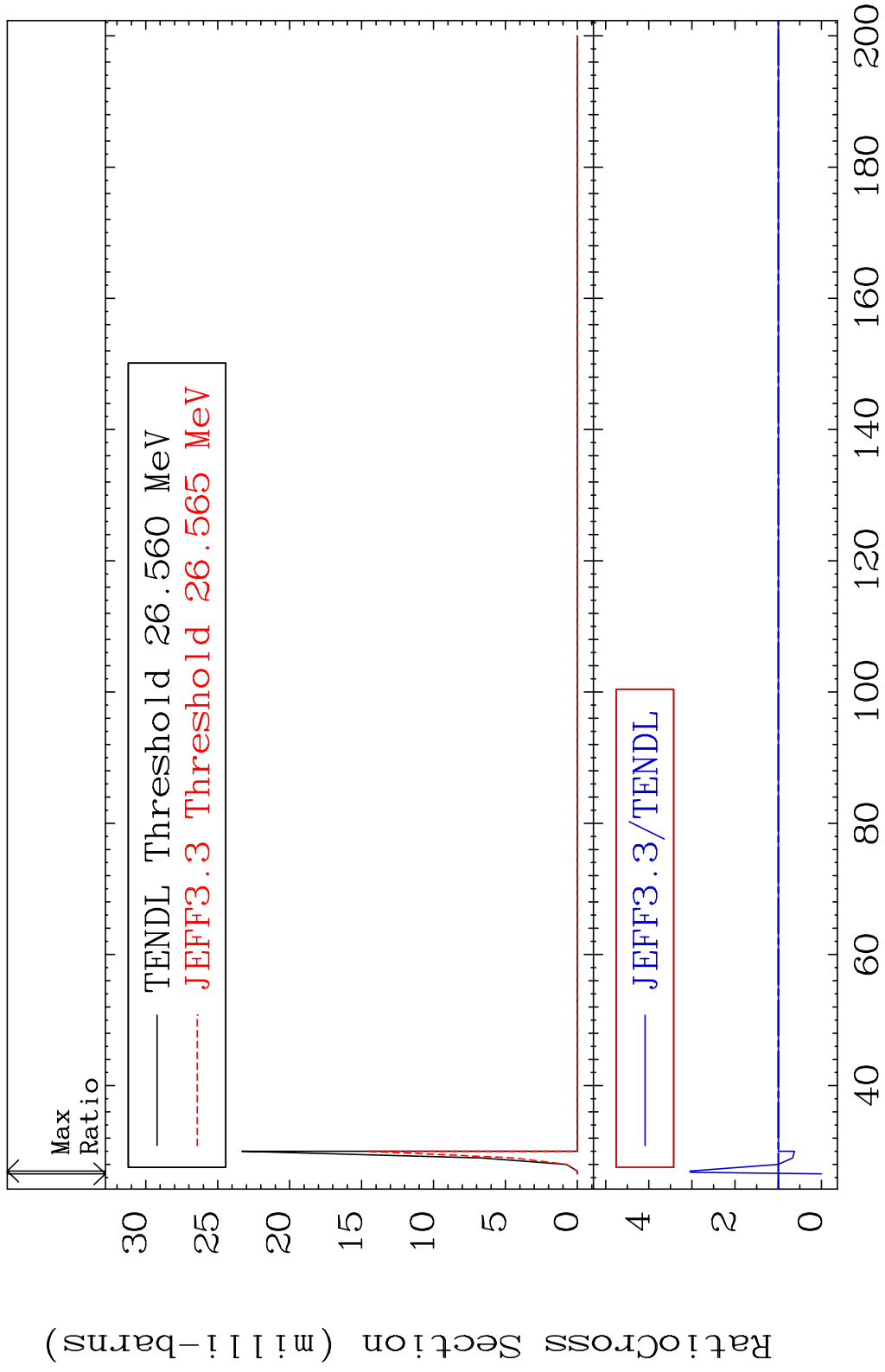
MAT 5837 (n, n') He-3:56-Ba-137g 58-Ce-140
 Radionuclide Production Cross Section 180.01 dth 375.8 %



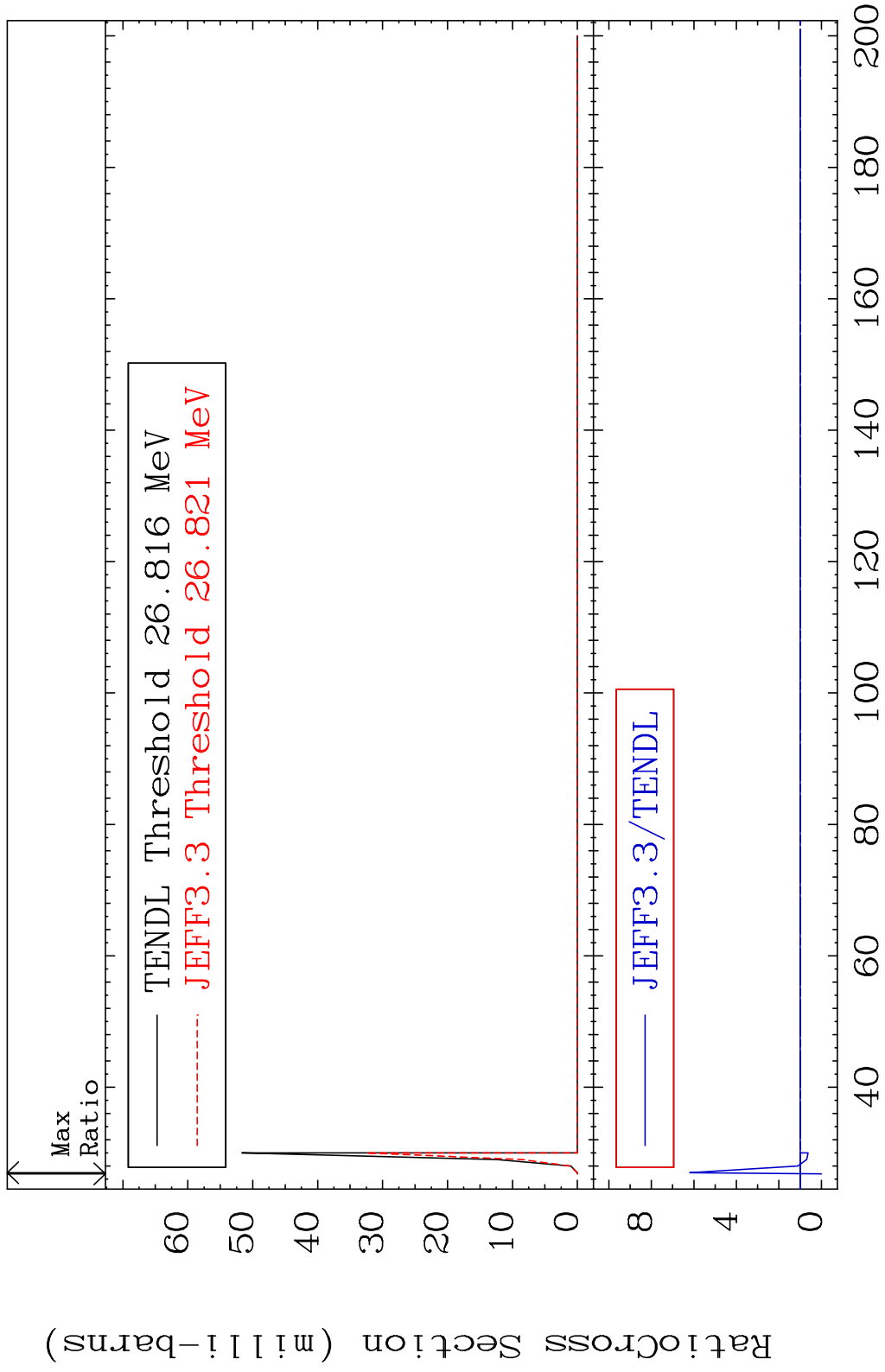
MAT 5837 (n, n') He-3:56-Ba-137m2 58-Ce-140
 Radionuclide Production Cross Section 126.9 %



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

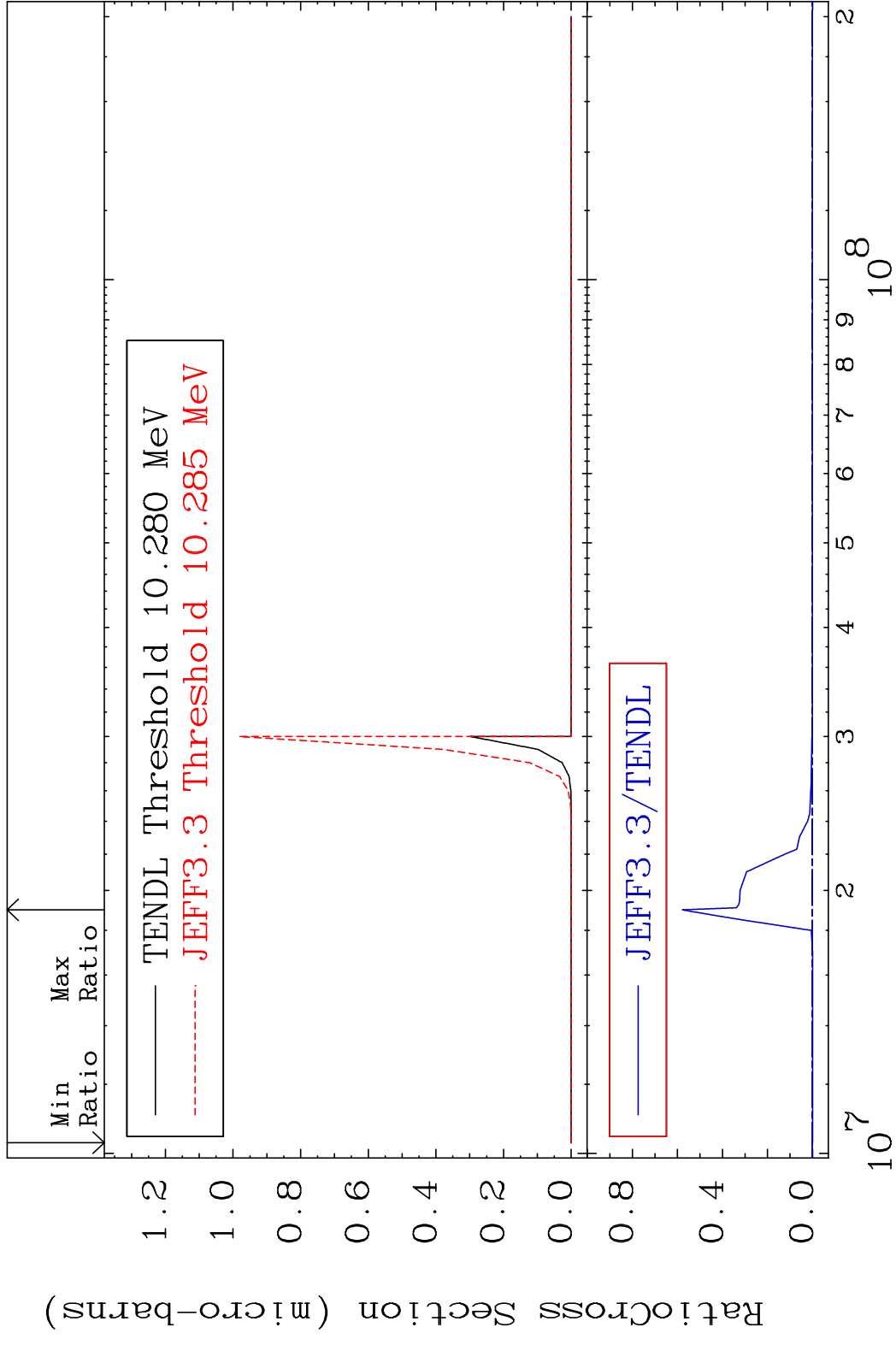


MAT 5837 (n, 4n):58-Ce-137m2 58-Ce-140
 Radionuclide Production Cross Section 180.01 dth 519.3 %



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. %

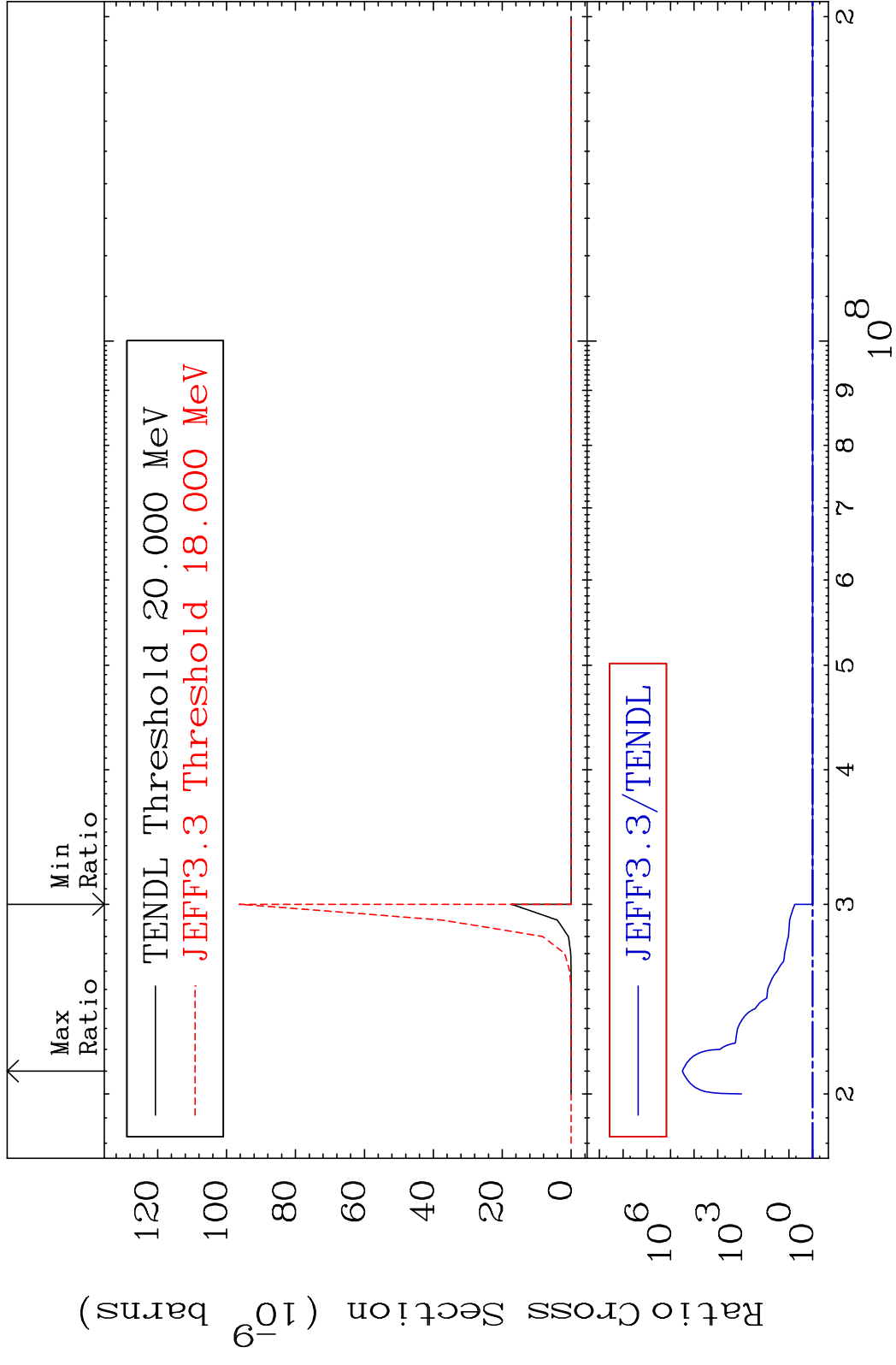


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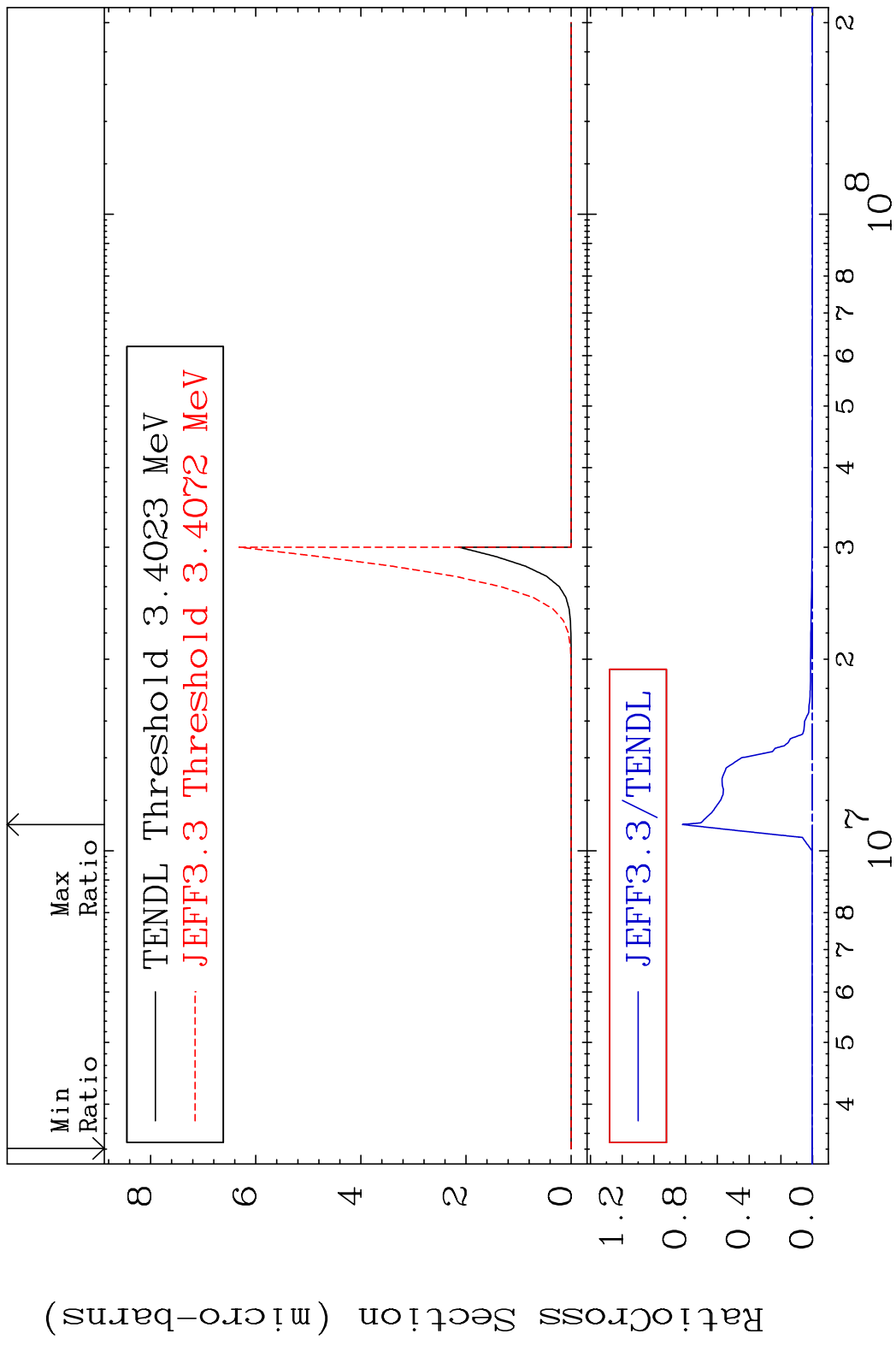
Incident Energy (eV)

58-Ce-140

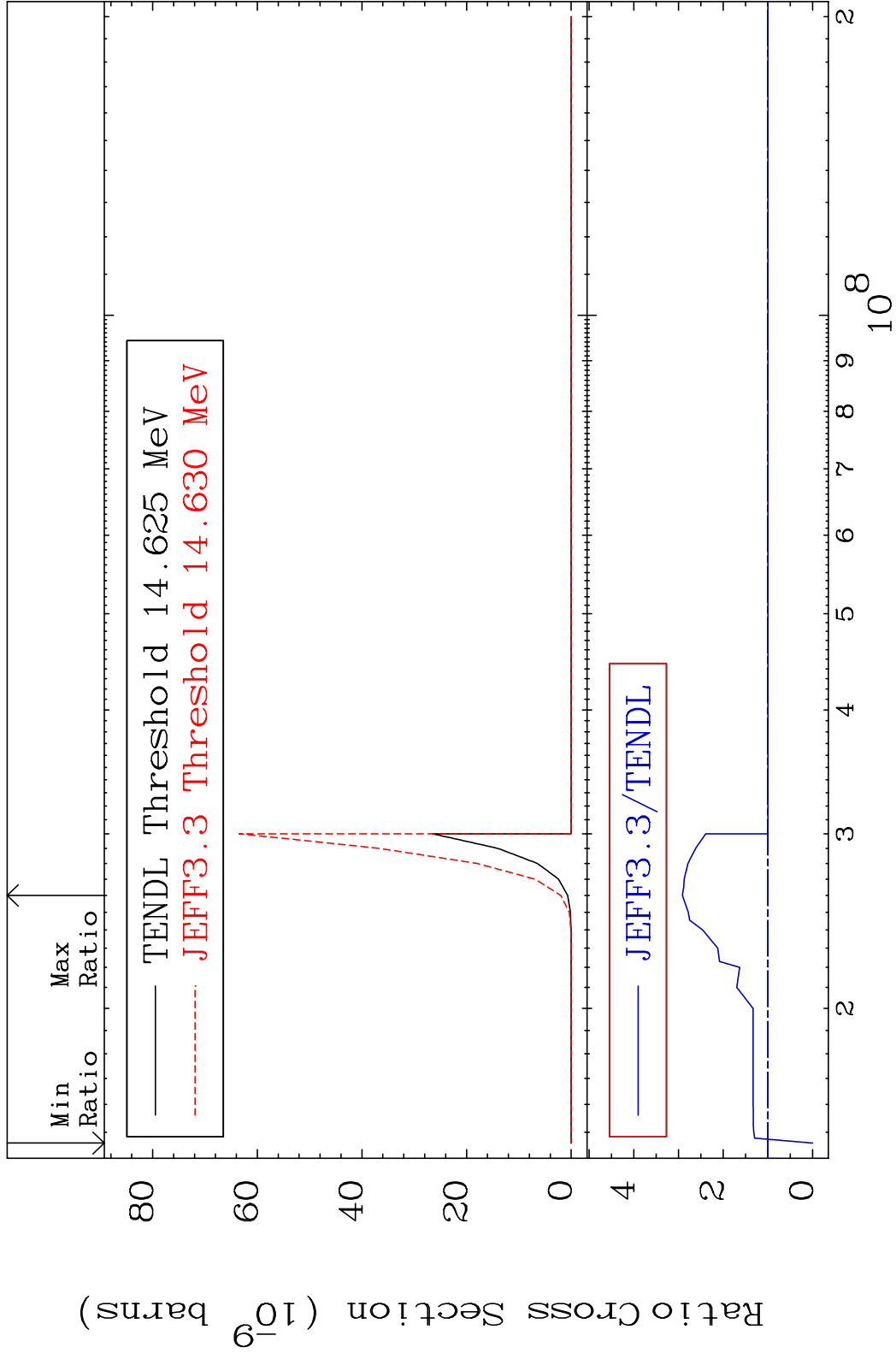
MAT 5837 (n, n') p α:55-Cs-135m10 58-Ce-140
 Radionuclide Production Cross Section, %



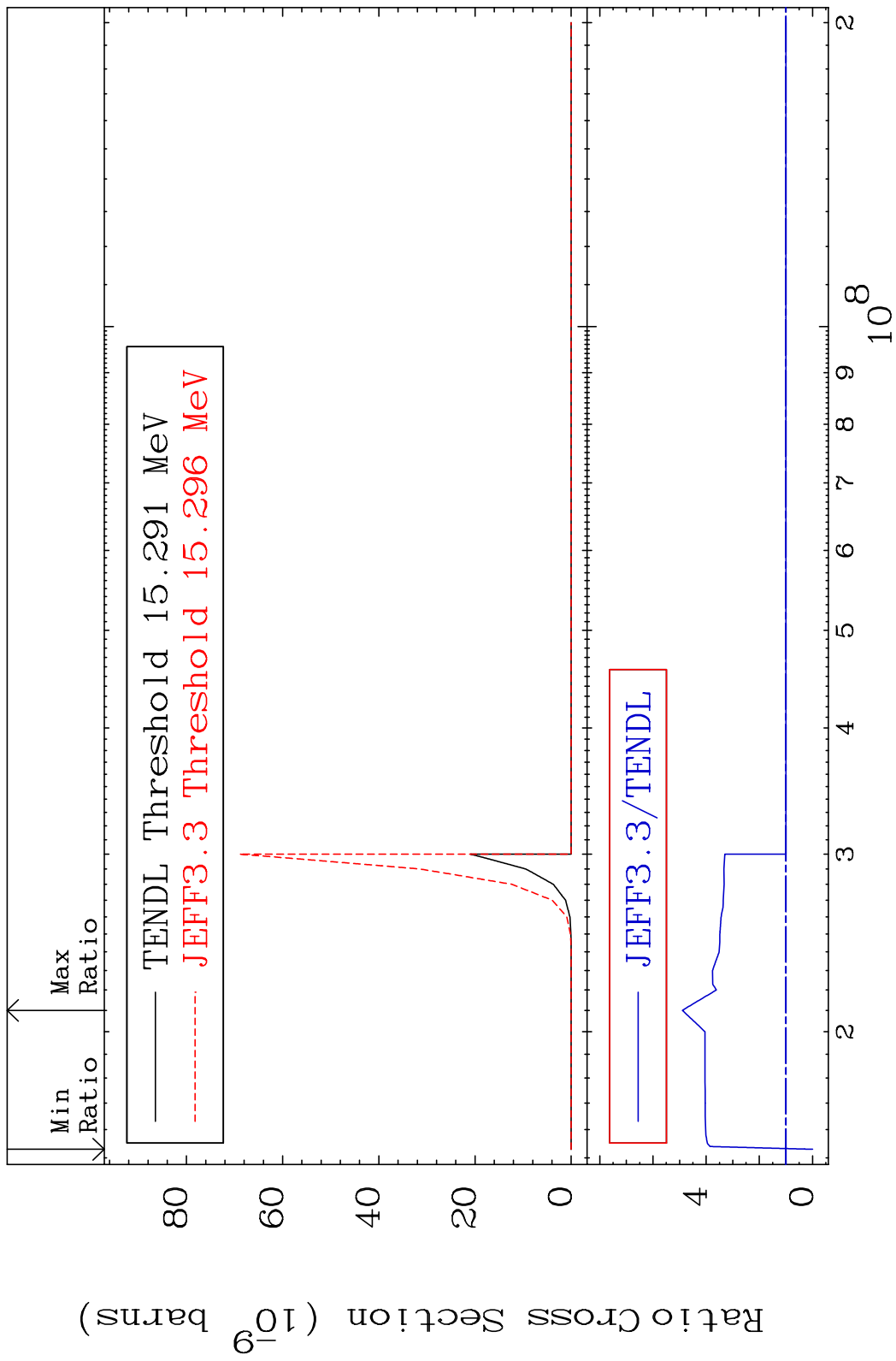
MAT 5837 (n,p) α :55-Cs-136g 58-Ce-140
 Radionuclide Production Cross Section to 9999. %



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 Ratio 9999. %

