

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

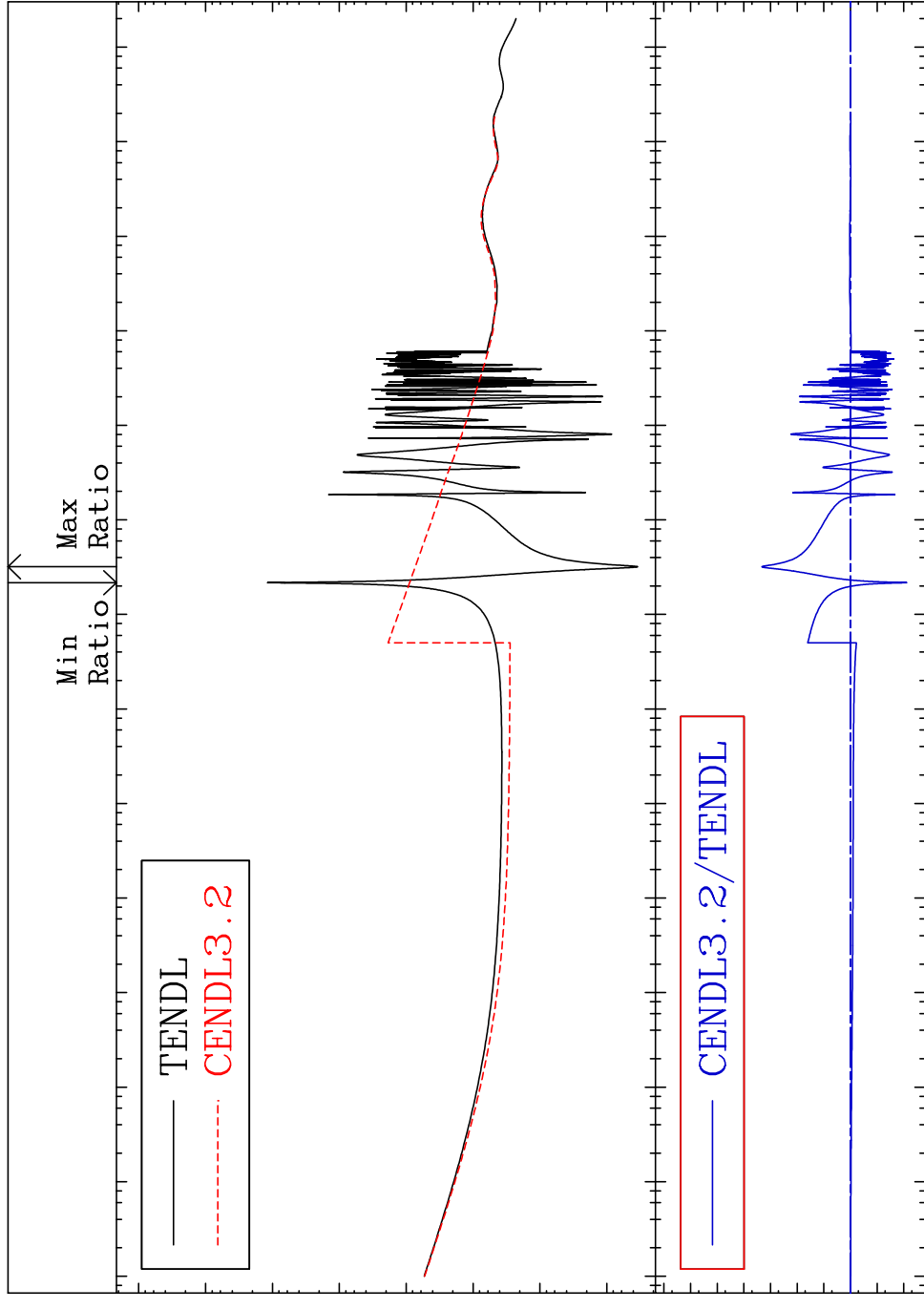
MAT 5849

Total

58-Ce-144

Cross Section

-99.26 To 9999. %



Cross Section (barns)

CENDL3.2/TENDL

Ratio

Incident Energy (eV)

1

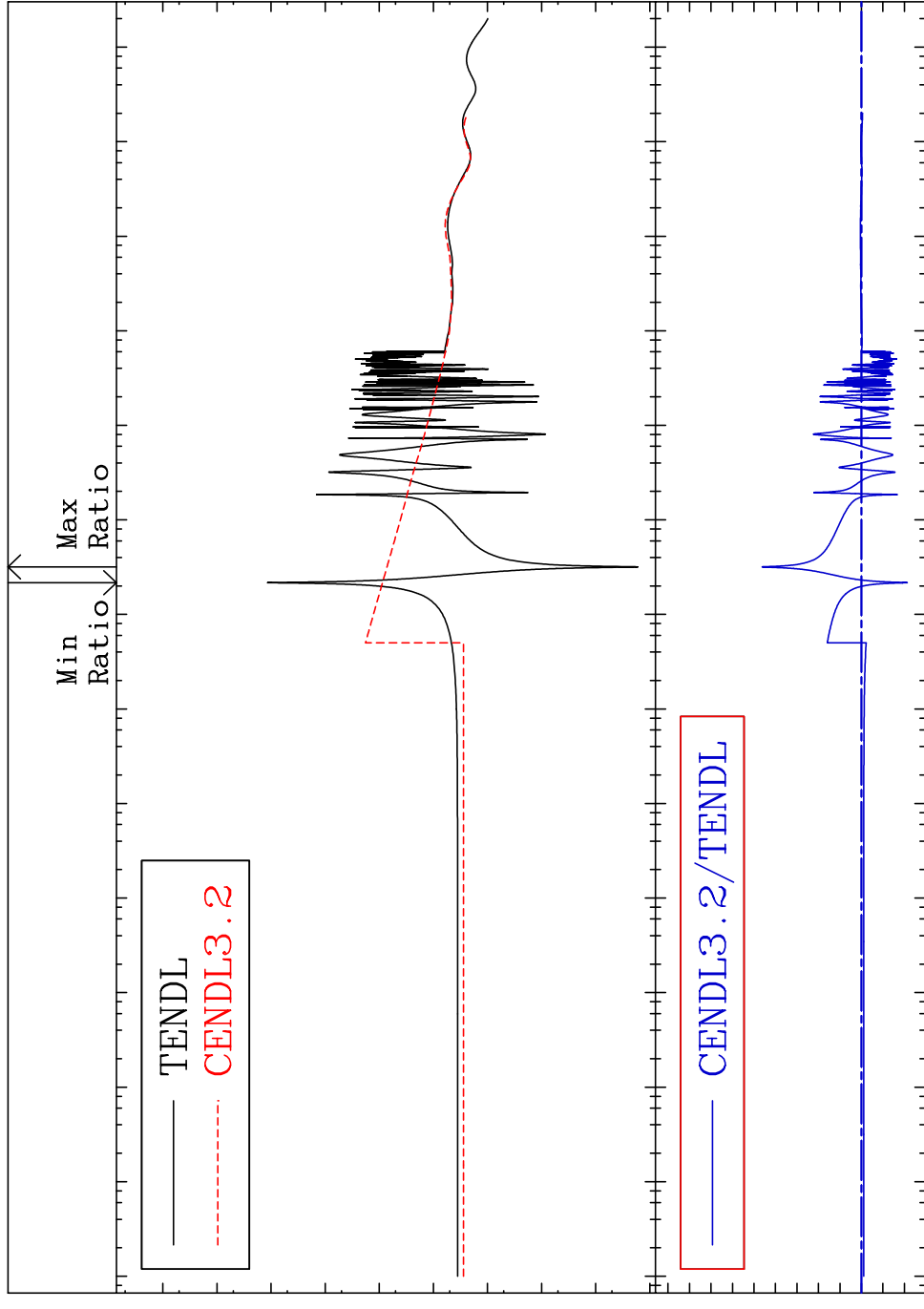
58-Ce-144

MAT 5849

Elastic

58-Ce-144

Cross Section -99.26 To 9999. %



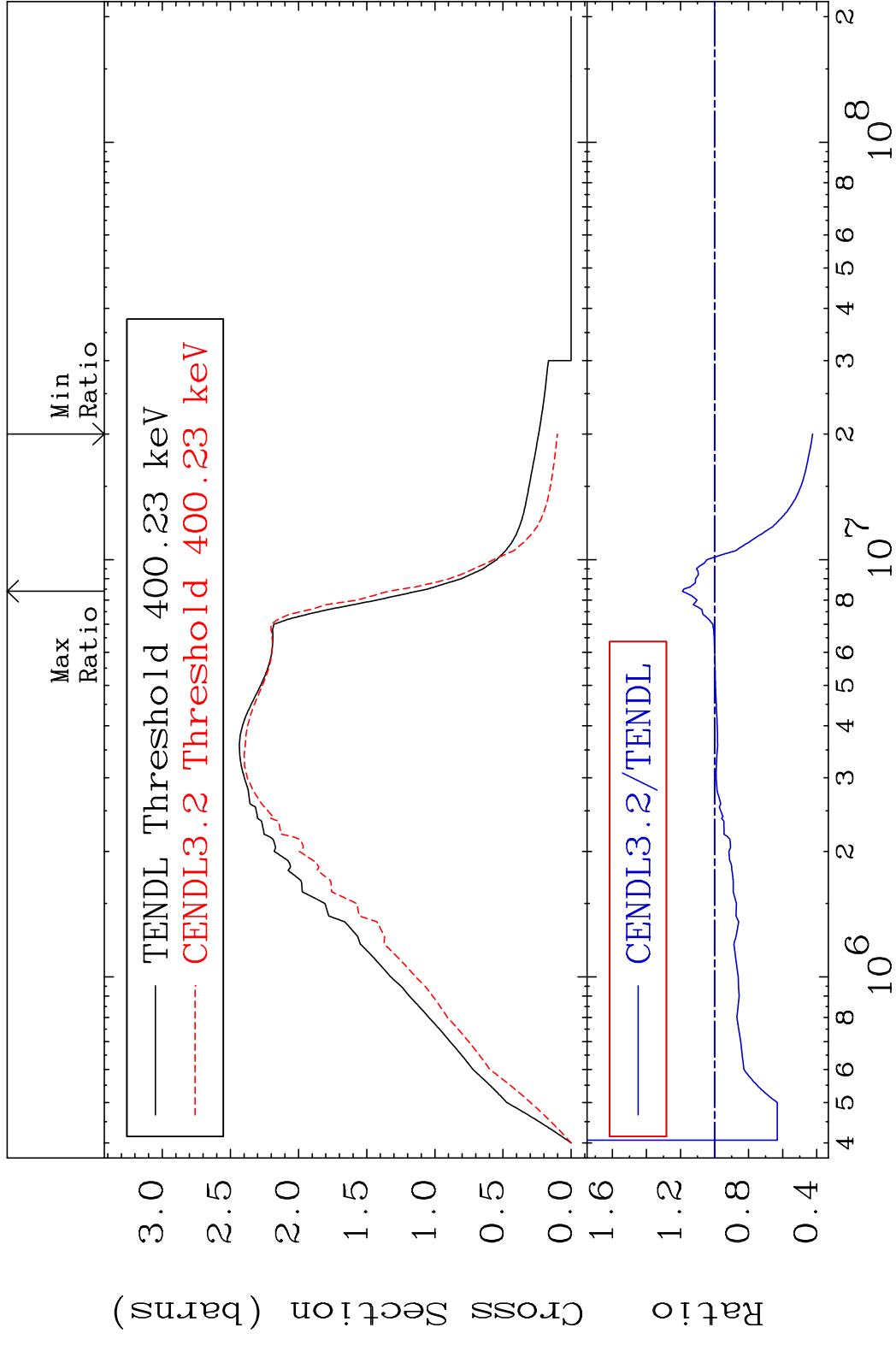
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

58-Ce-144

MAT 5849 Inelastic 58-Ce-144
 Cross Section -57.53 To 18.90 %



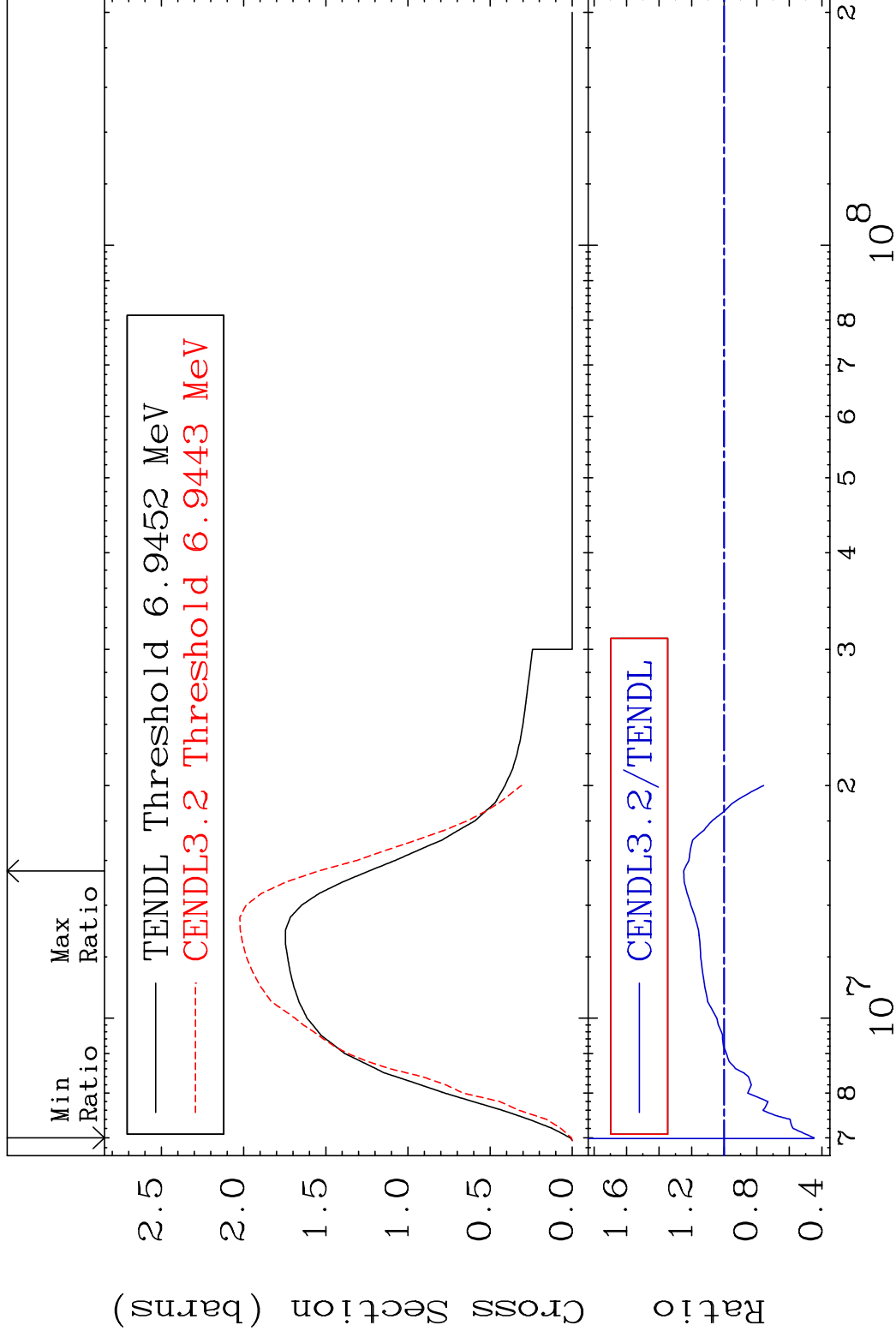
3 Incident Energy (eV) 58-Ce-144

MAT 5849

(n,2n)

58-Ce-144

Cross Section -55.22 To 24.93 %



4

Incident Energy (eV)

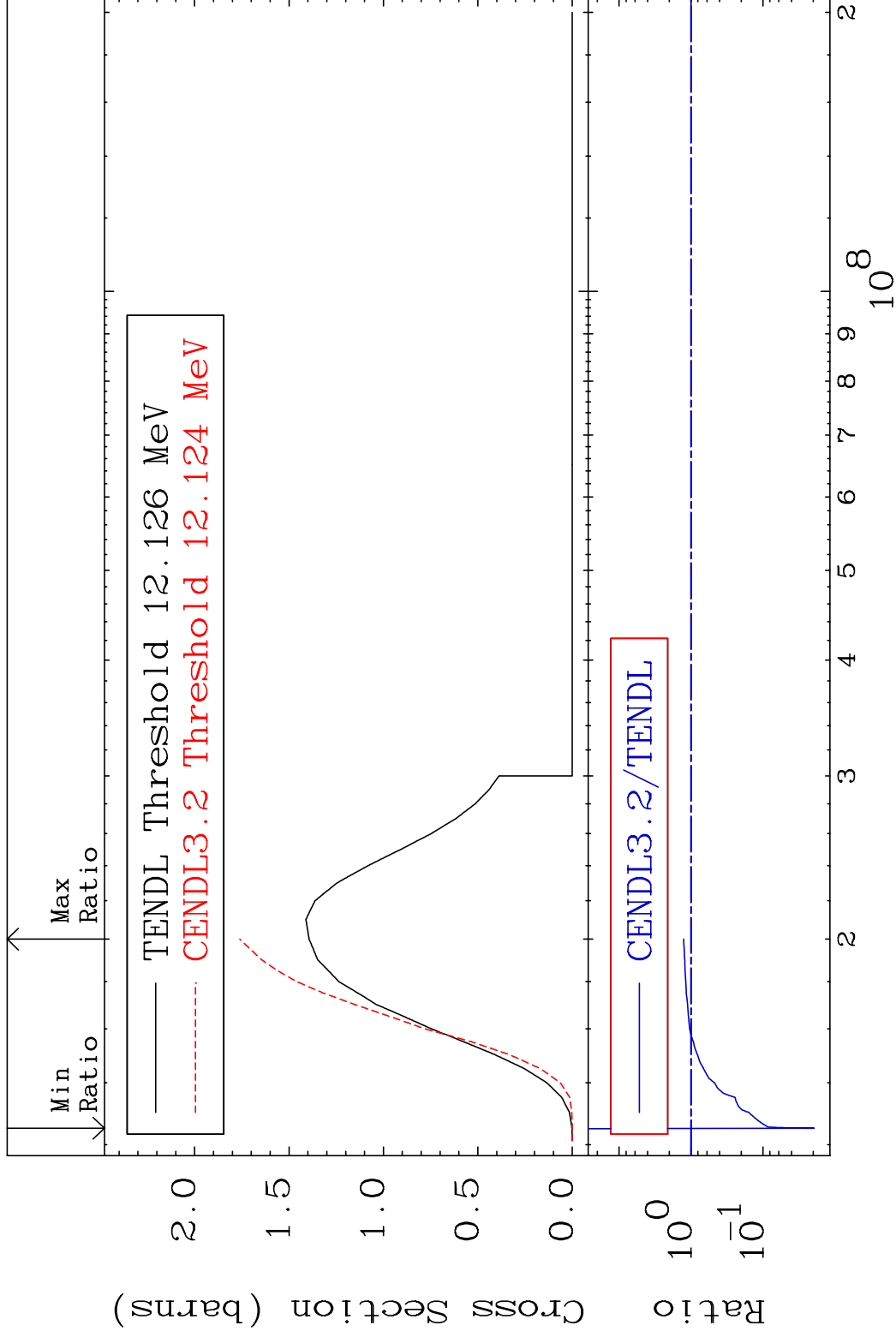
58-Ce-144

MAT 5849

(n,3n)

58-Ce-144

Cross Section -98.06 To 26.33 %



5

Incident Energy (eV)

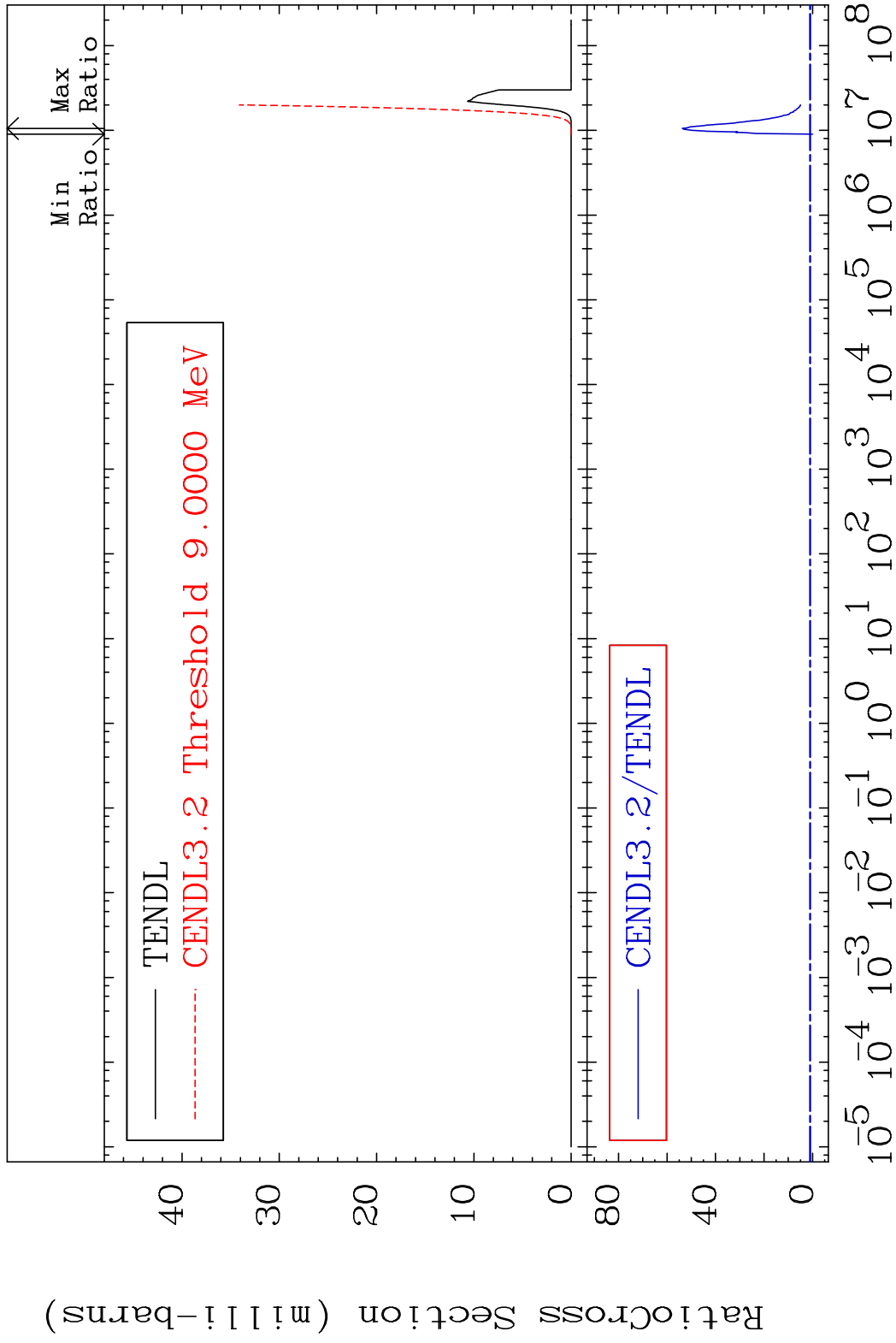
58-Ce-144

MAT 5849

(n, n') α

58-Ce-144

Cross Section -100.0 To 5268. %

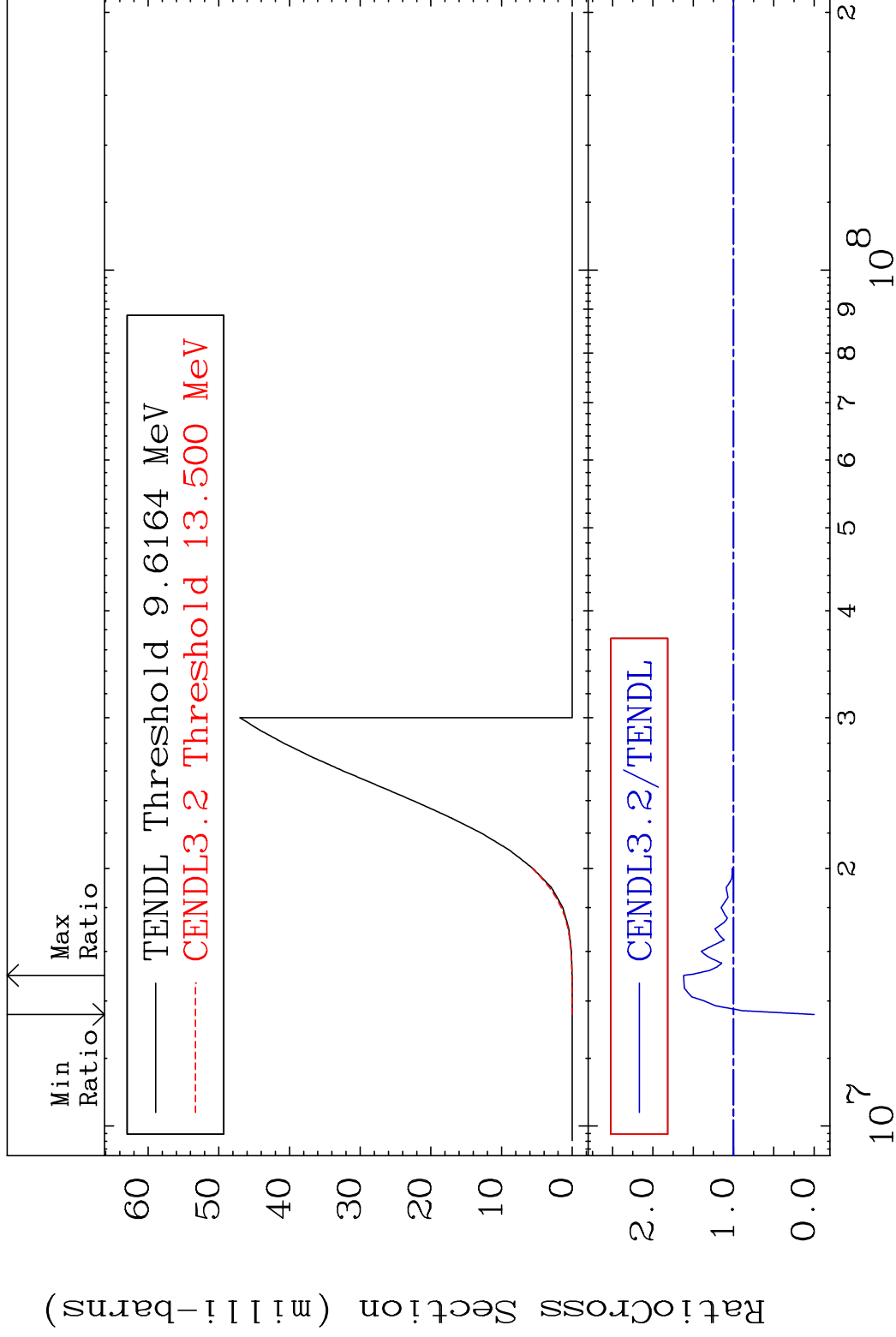


MAT 5849

(n, n') p

58-Ce-144

Cross Section -100.0 To 61.87 %

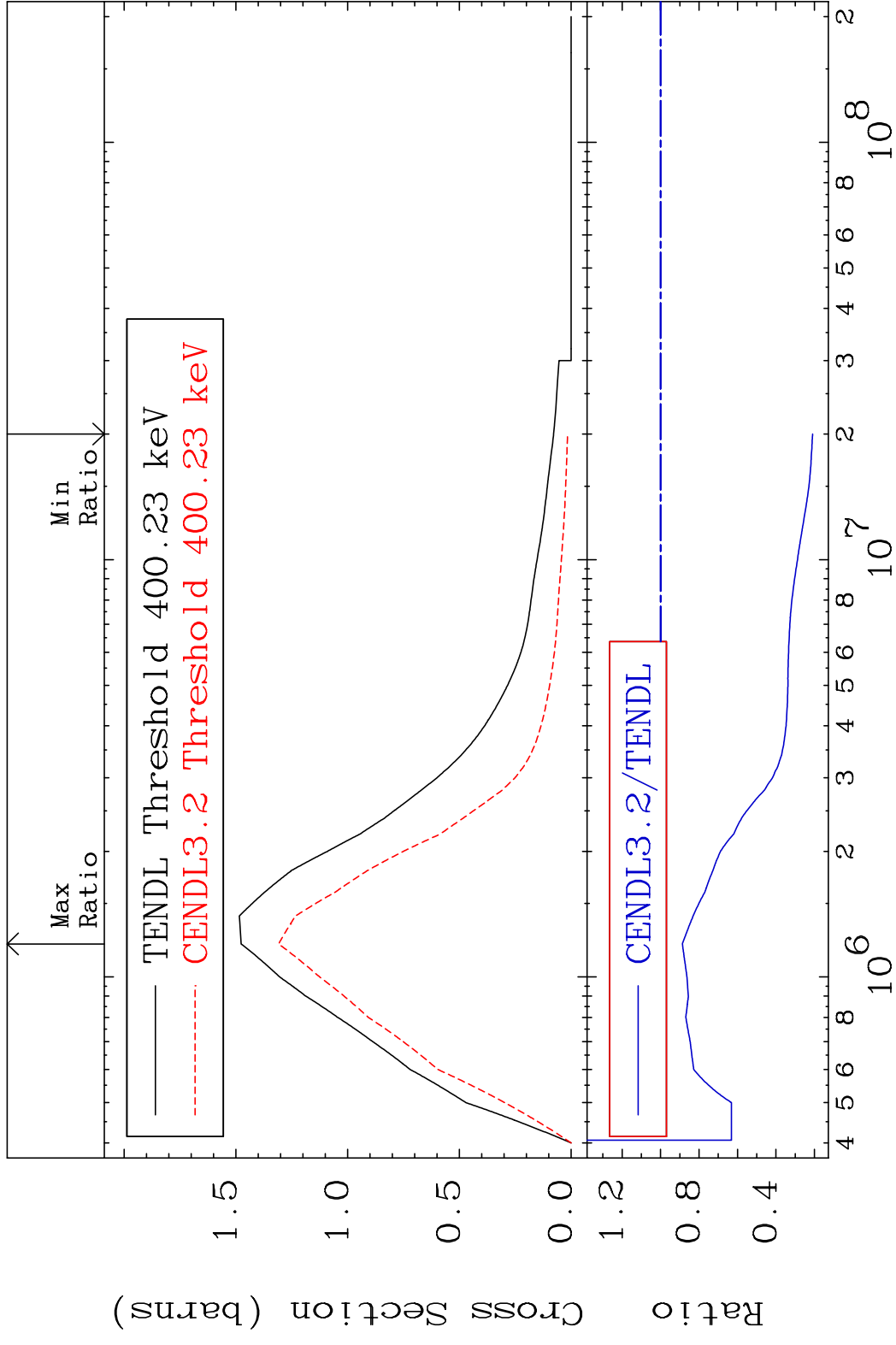


7

Incident Energy (eV)

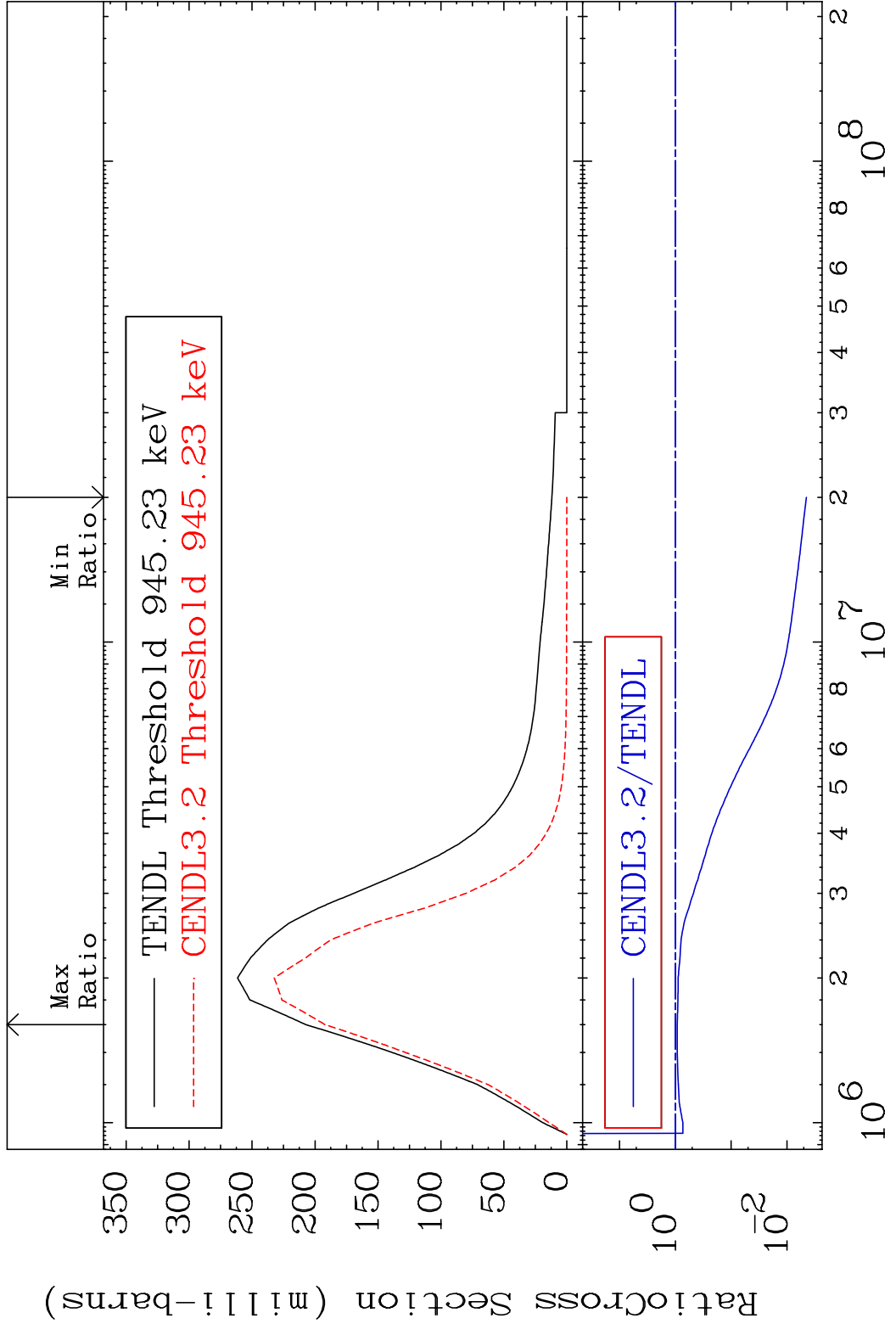
58-Ce-144

MAT 5849 MT= 51 (n, n') Level 58-Ce-144
 Cross Section -79.02 To -11.32%



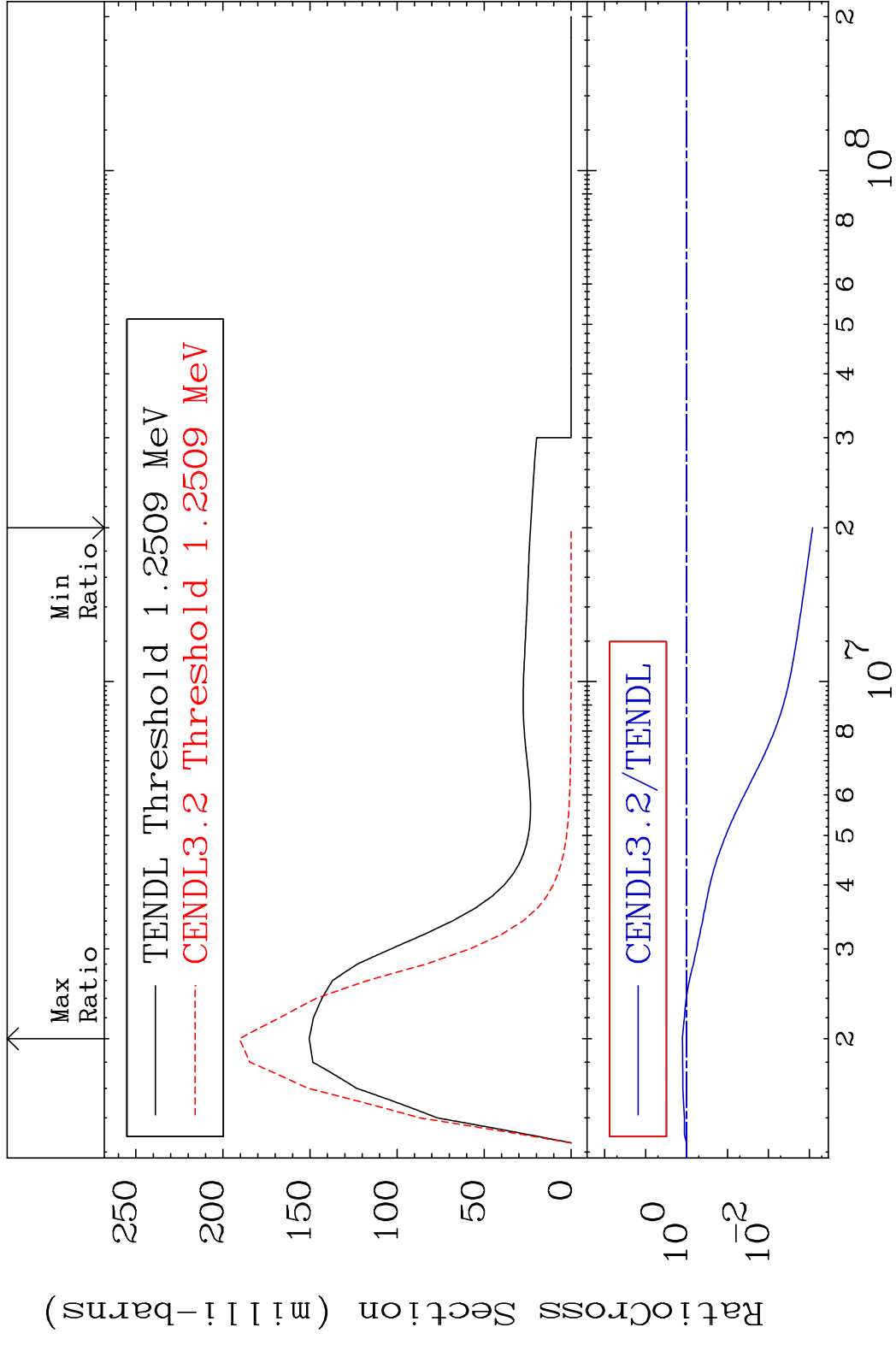
8 Incident Energy (eV) 58-Ce-144

MAT 5849 MT= 52 (n, n') Level 58-Ce-144
 Cross Section -99.55 To -7.381%



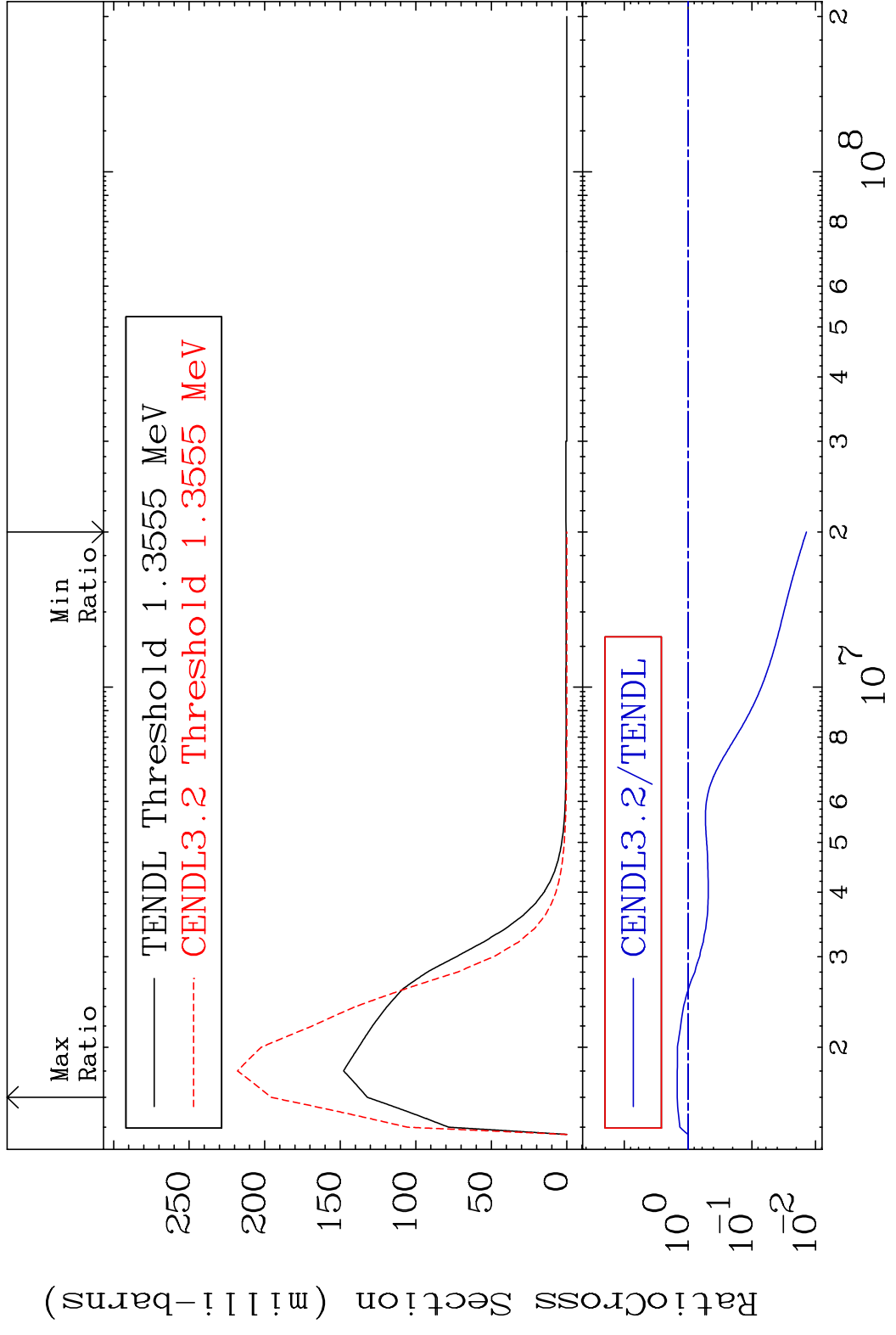
9 Incident Energy (eV) 58-Ce-144

MAT 5849 MT= 53 (n, n') Level 58-Ce-144
 Cross Section -99.92 To 26.67 %

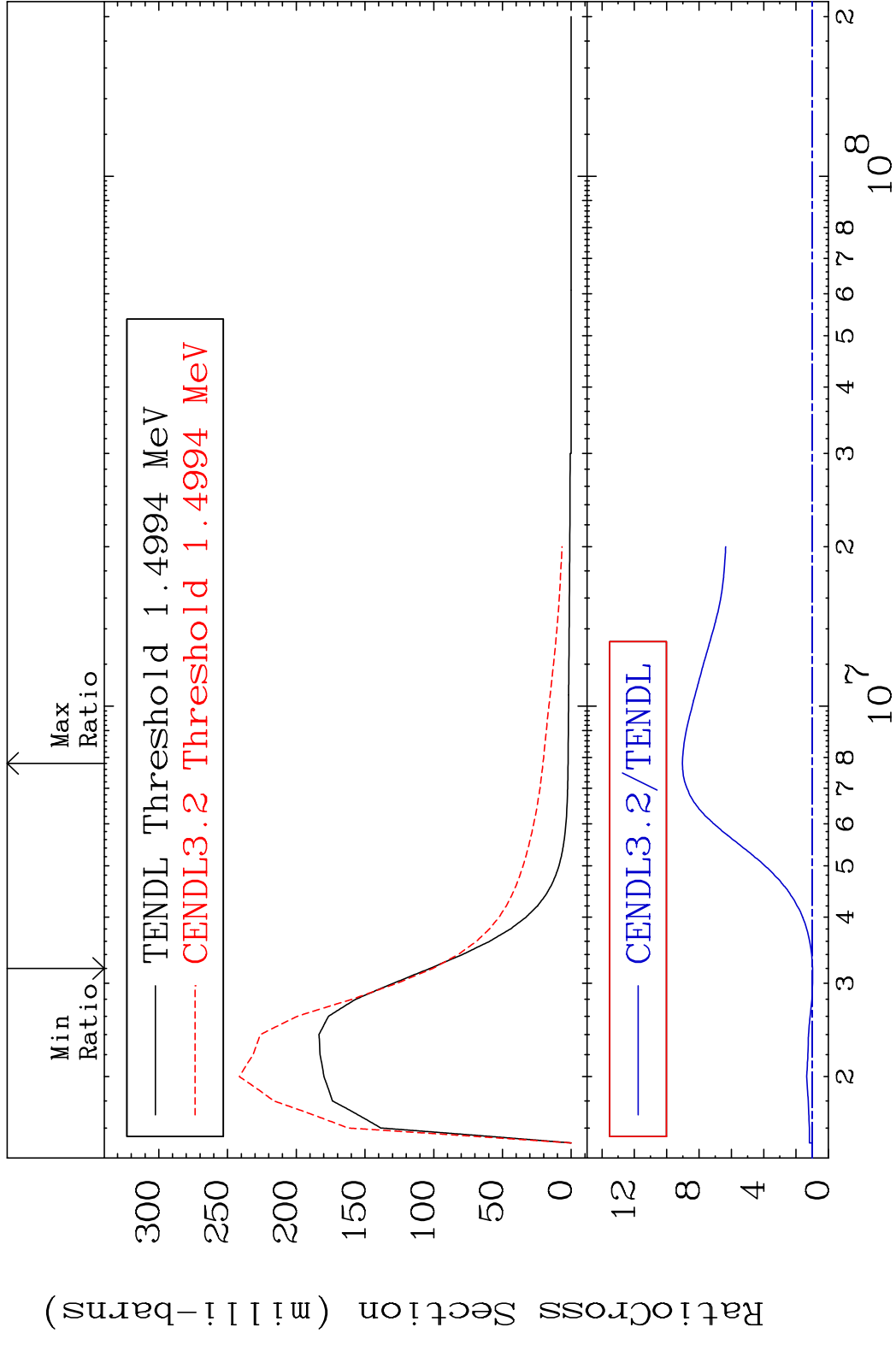


10 Incident Energy (eV) 58-Ce-144

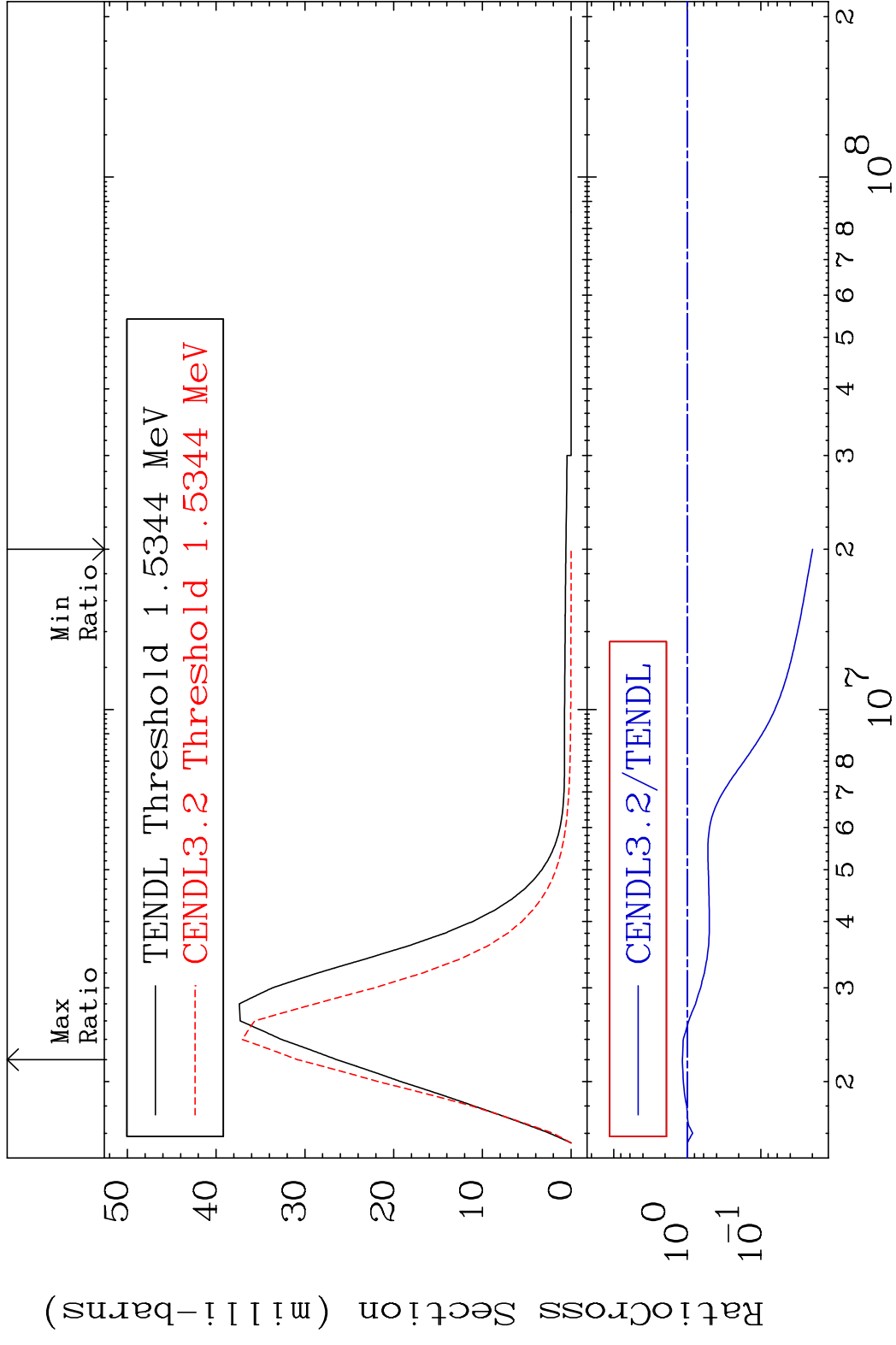
MAT 5849 MT= 54 (n, n') Level 58-Ce-144
 Cross Section -98.61 To 48.27 %



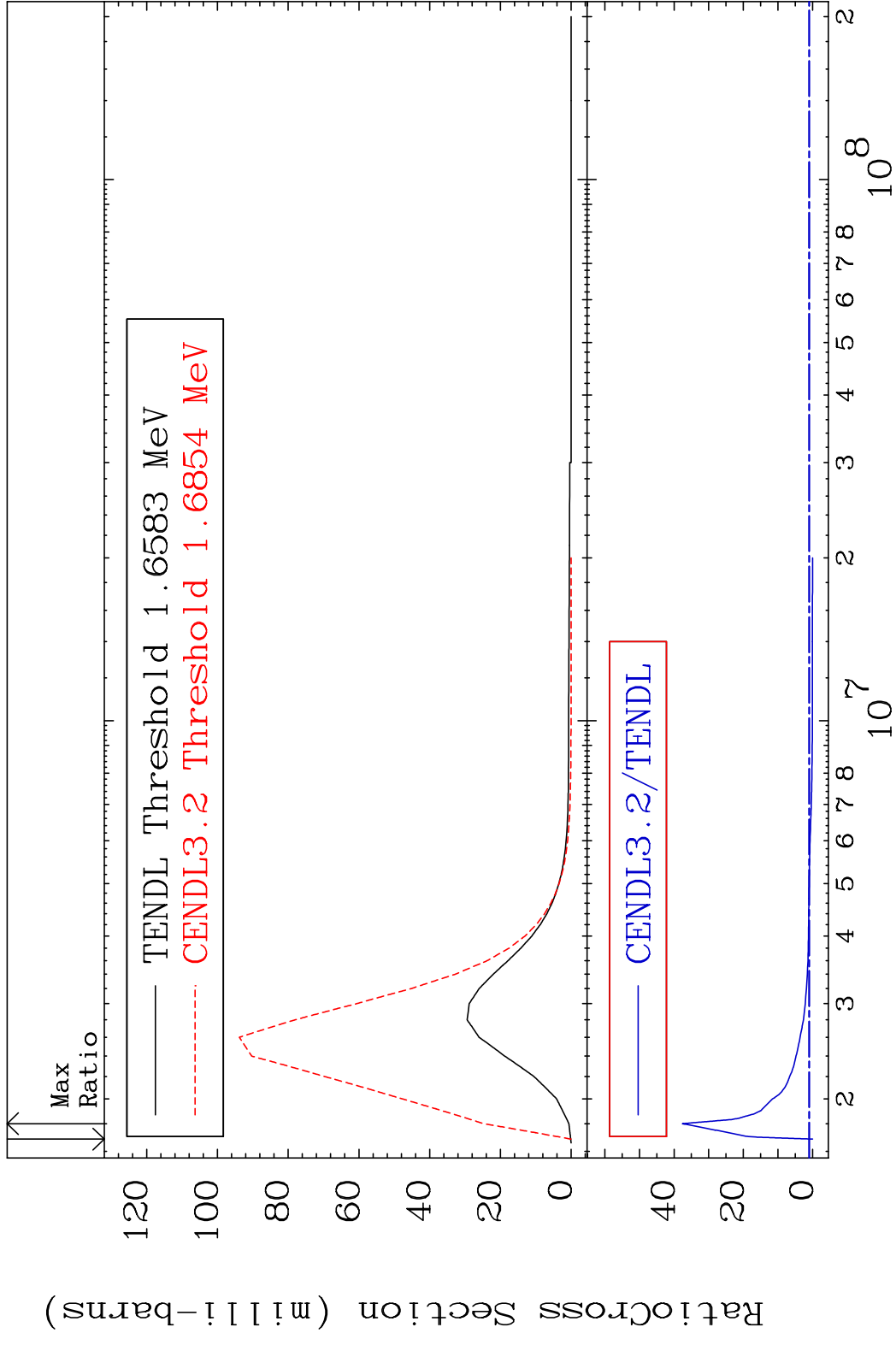
MAT 5849 MT= 55 (n,n') Level 58-Ce-144
 Cross Section -2.090 To 803.1 %



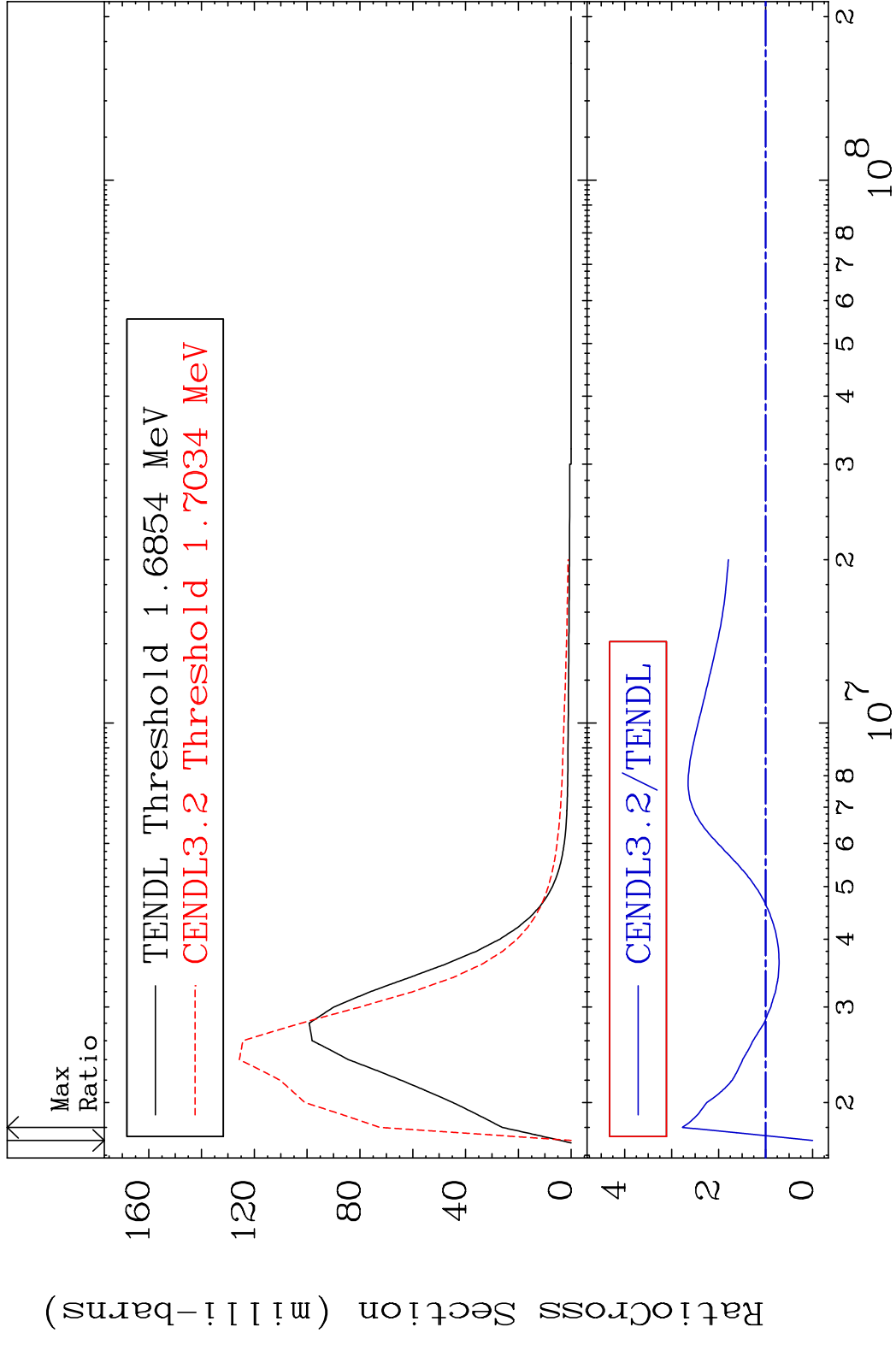
MAT 5849 MT= 56 (n, n') Level 58-Ce-144
 Cross Section -98.01 To 16.70 %



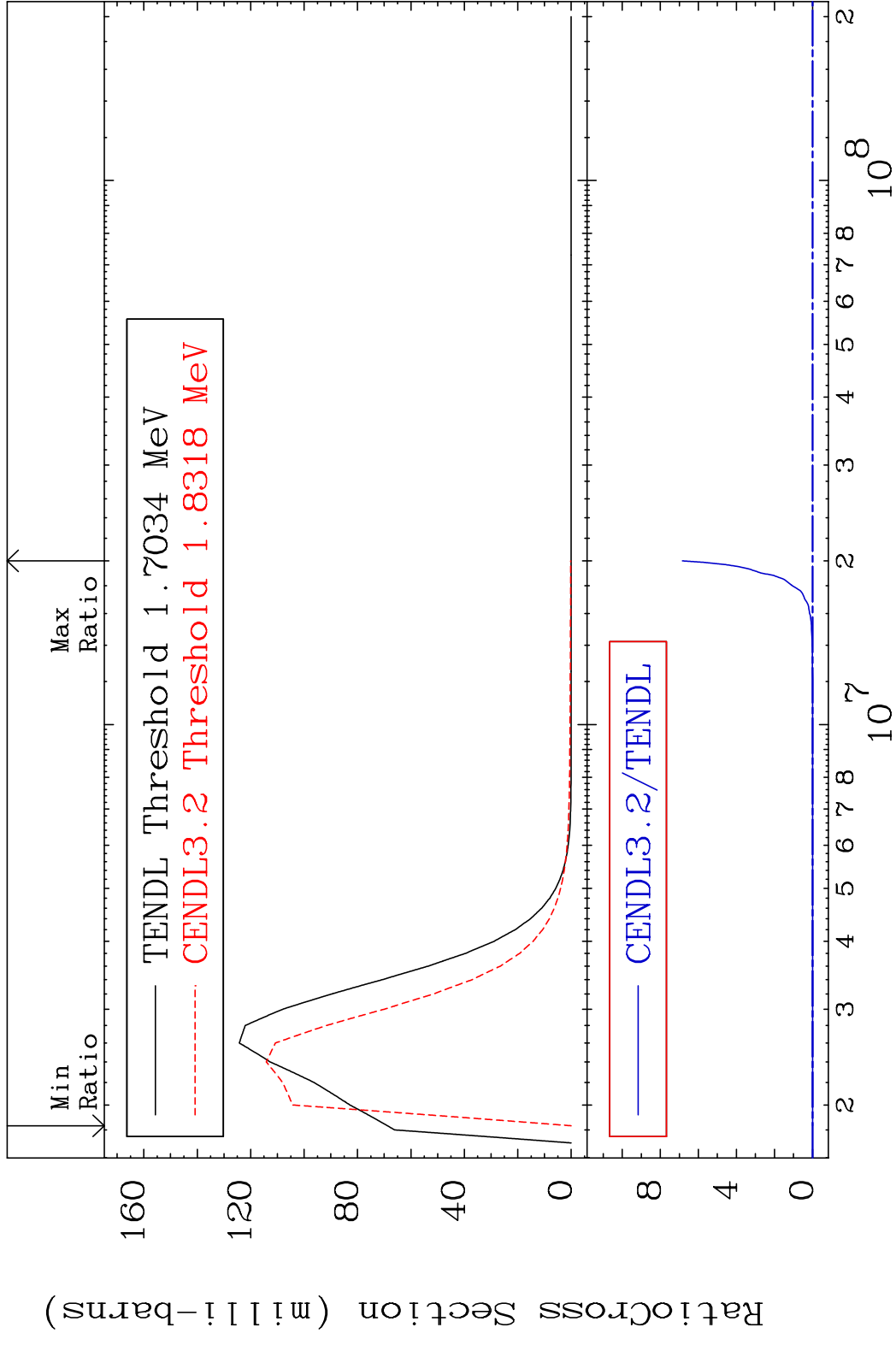
MAT 5849 MT= 57 (n,n') Level 58-Ce-144
 Cross Section -100.0 To 3661. %



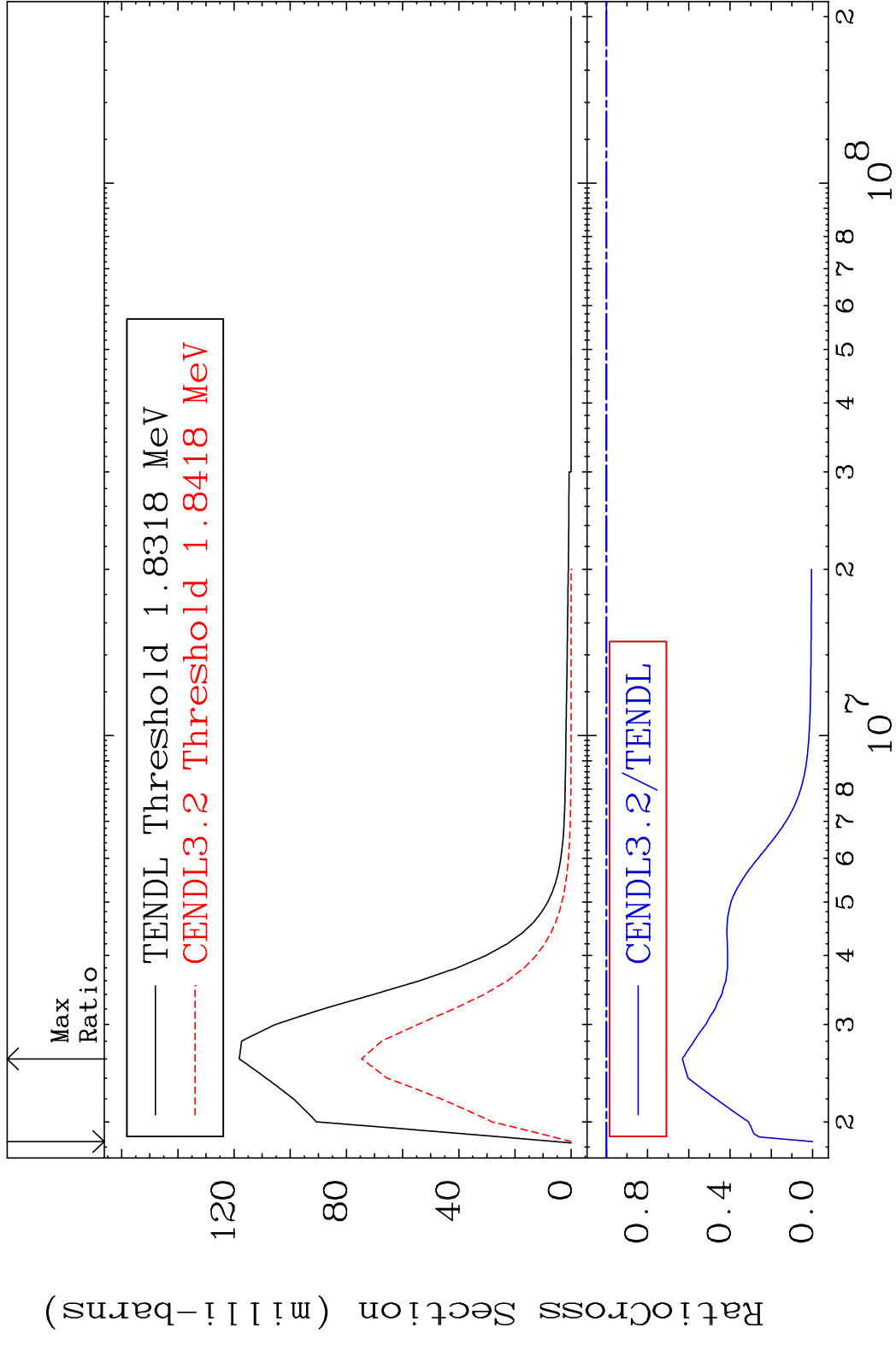
MAT 5849 MT= 58 (n,n') Level 58-Ce-144
 Cross Section -100.0 To 177.2 %



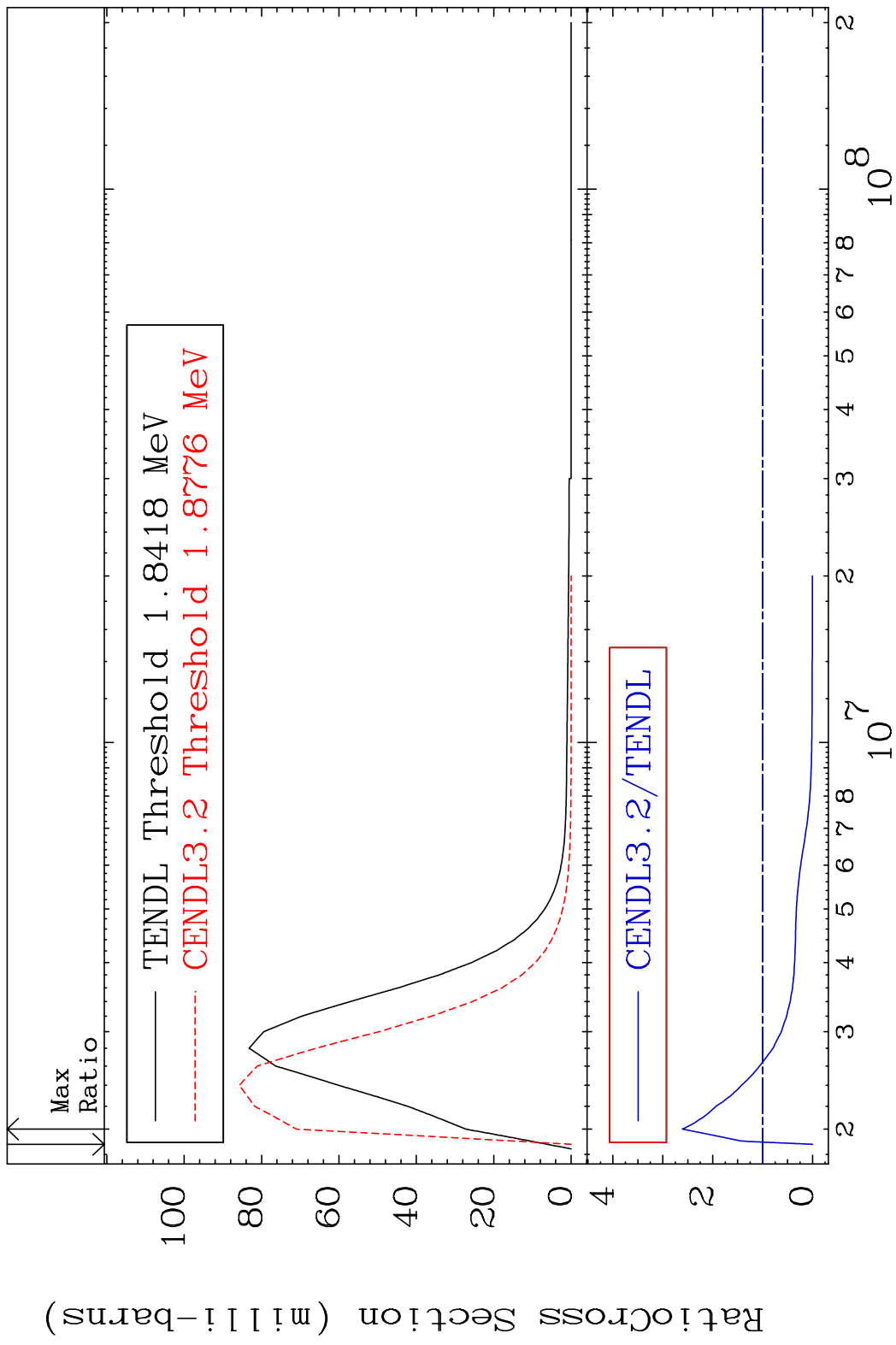
MAT 5849 MT= 59 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 9999. %



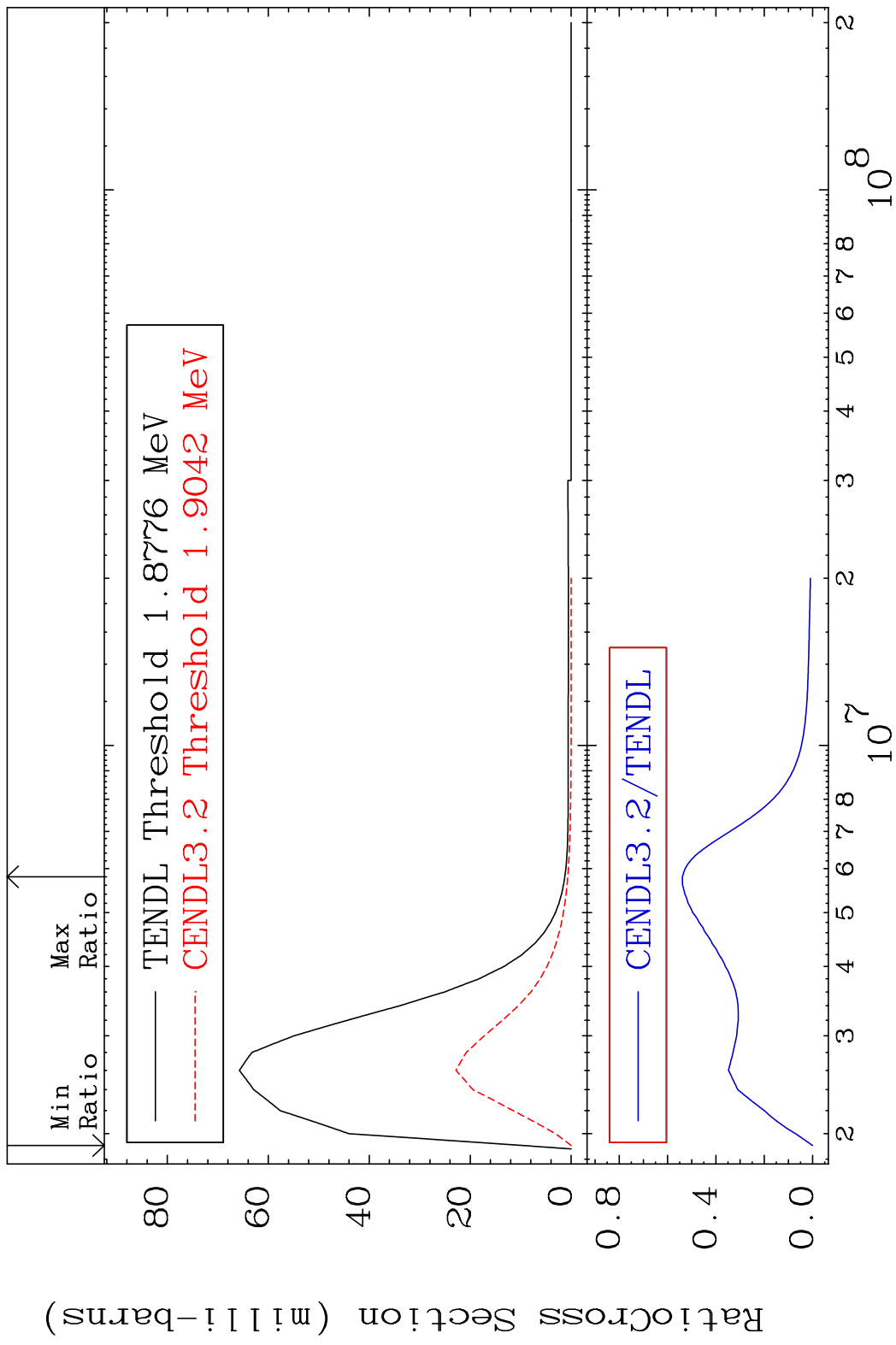
MAT 5849 MT= 60 (n, n') Level 58-Ce-144
 Cross Section -100.0 To -36.85%



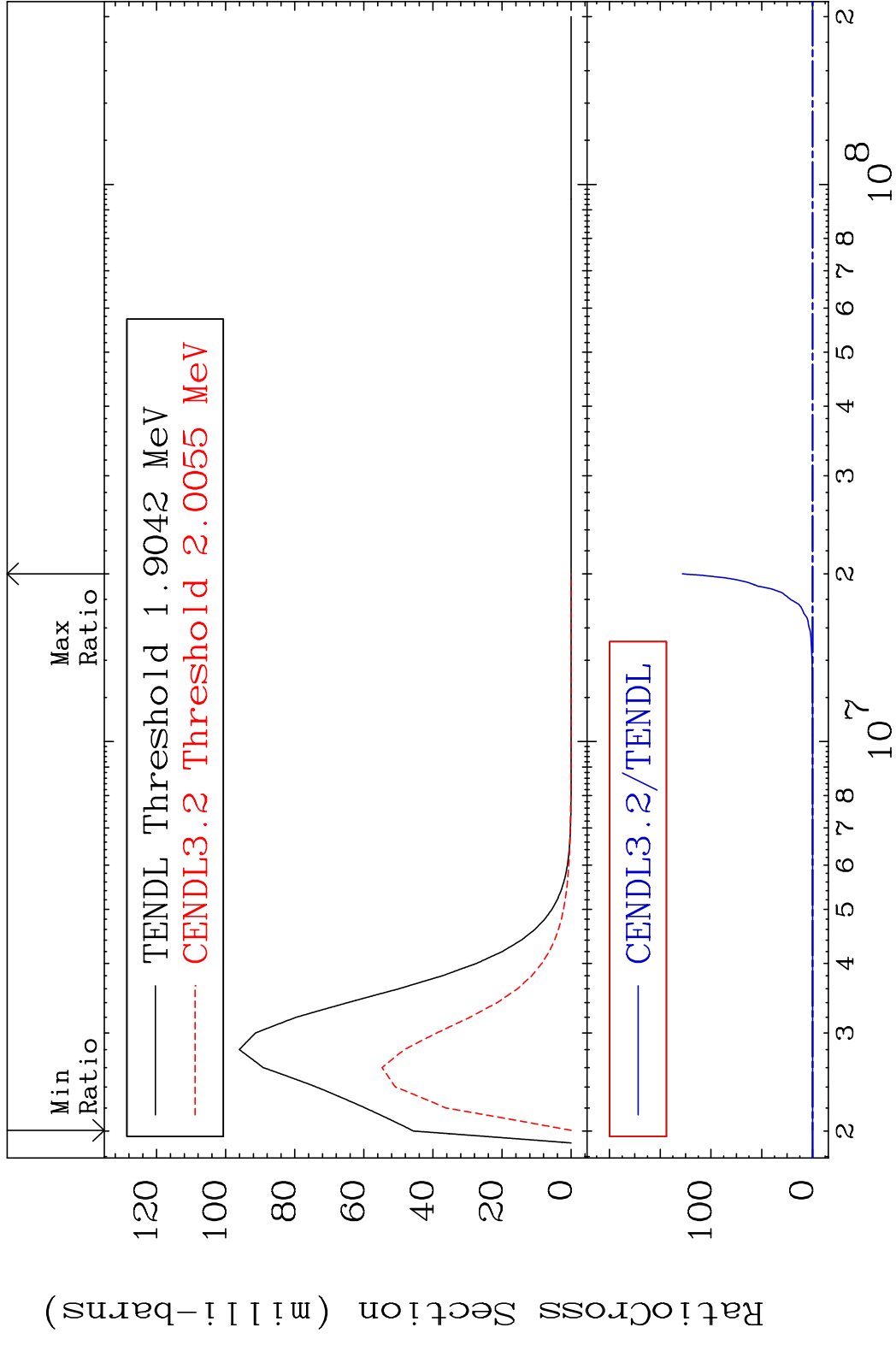
MAT 5849 MT= 61 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 160.8 %



MAT 5849 MT= 62 (n,n') Level 58-Ce-144
 Cross Section -100.0 To -46.15%

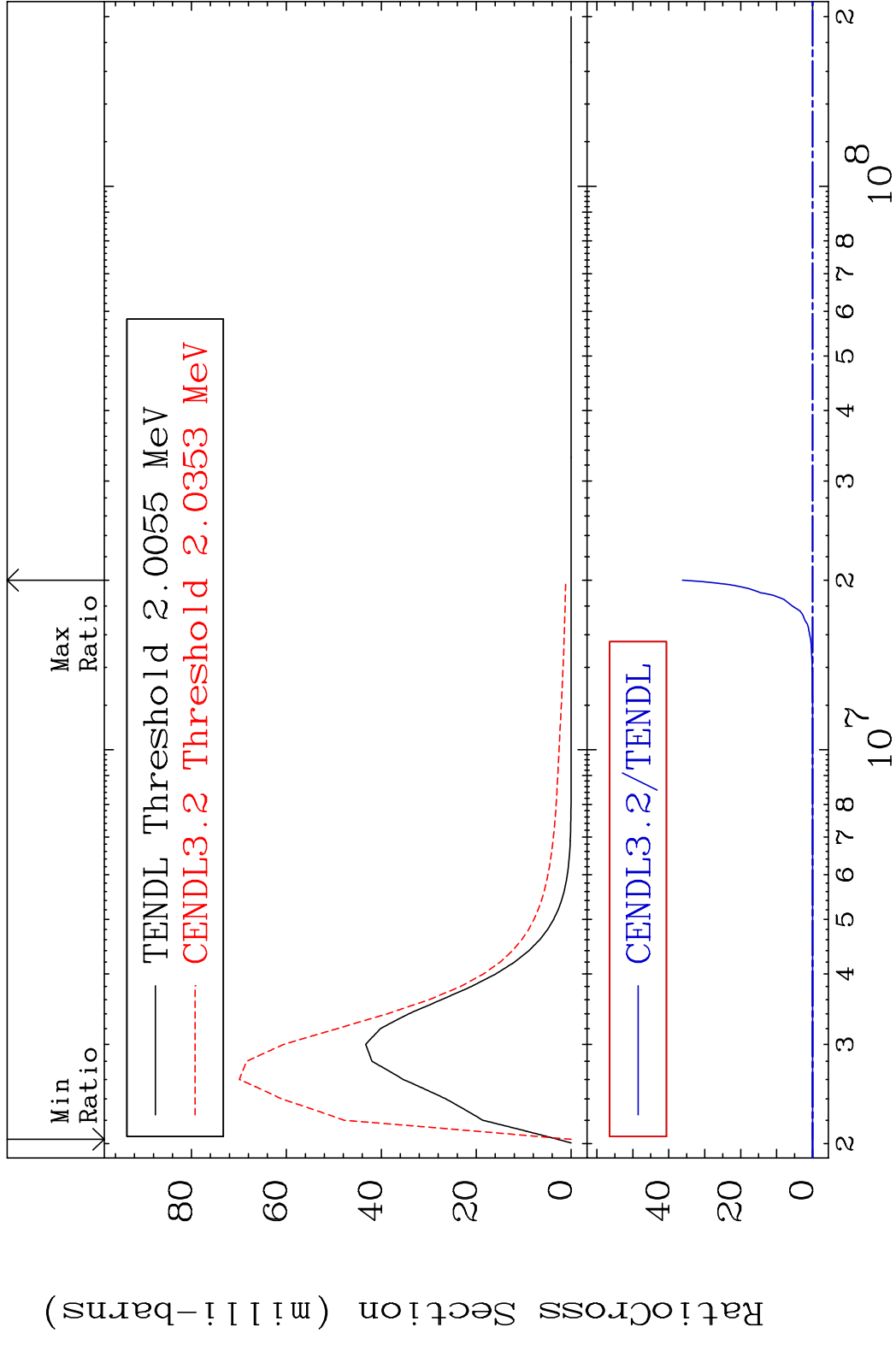


MAT 5849 MT= 63 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 9999. %

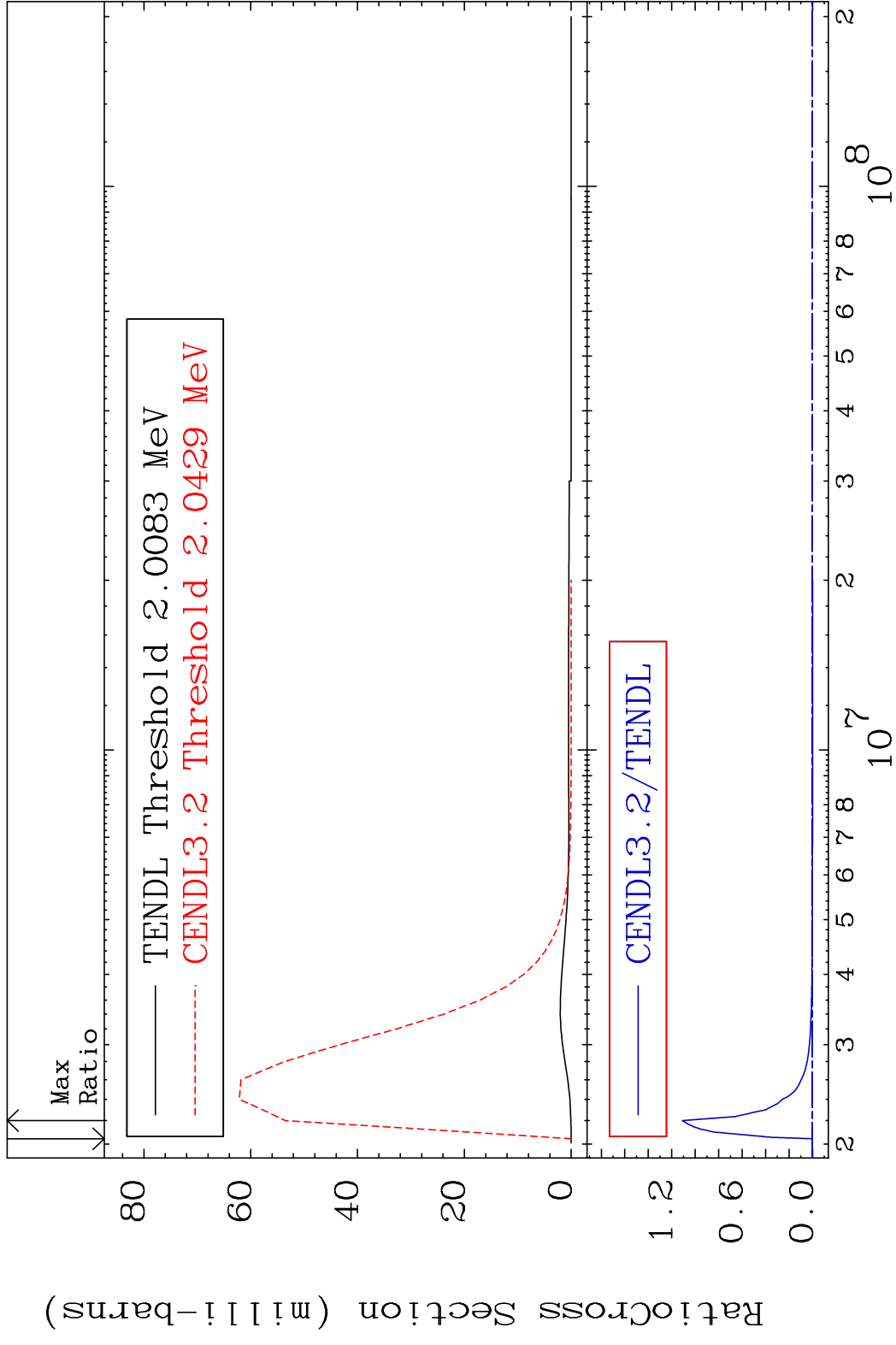


20 2 3 4 5 6 7 8 10 8 20 58-Ce-144

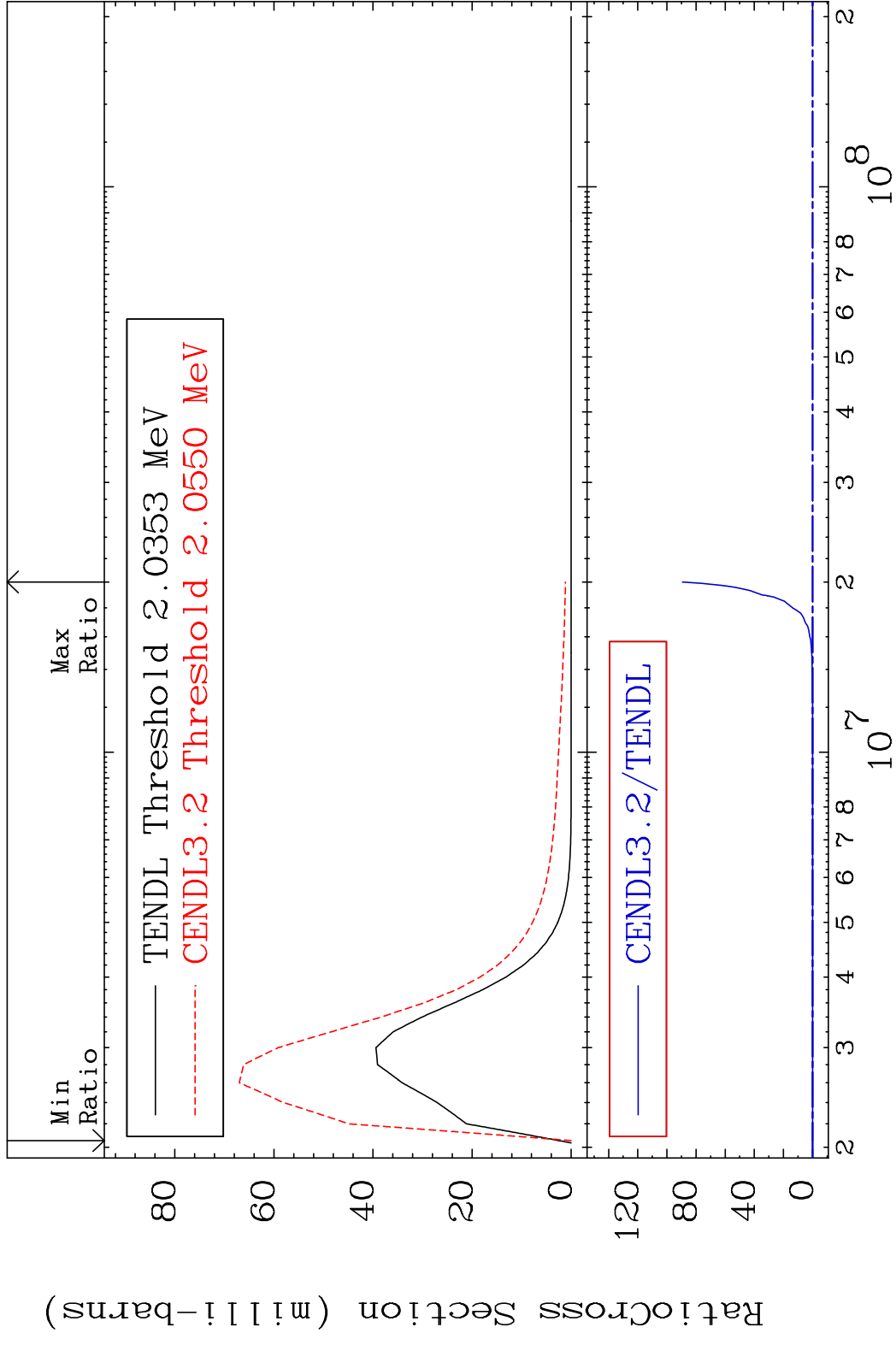
MAT 5849 MT= 64 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 9999. %



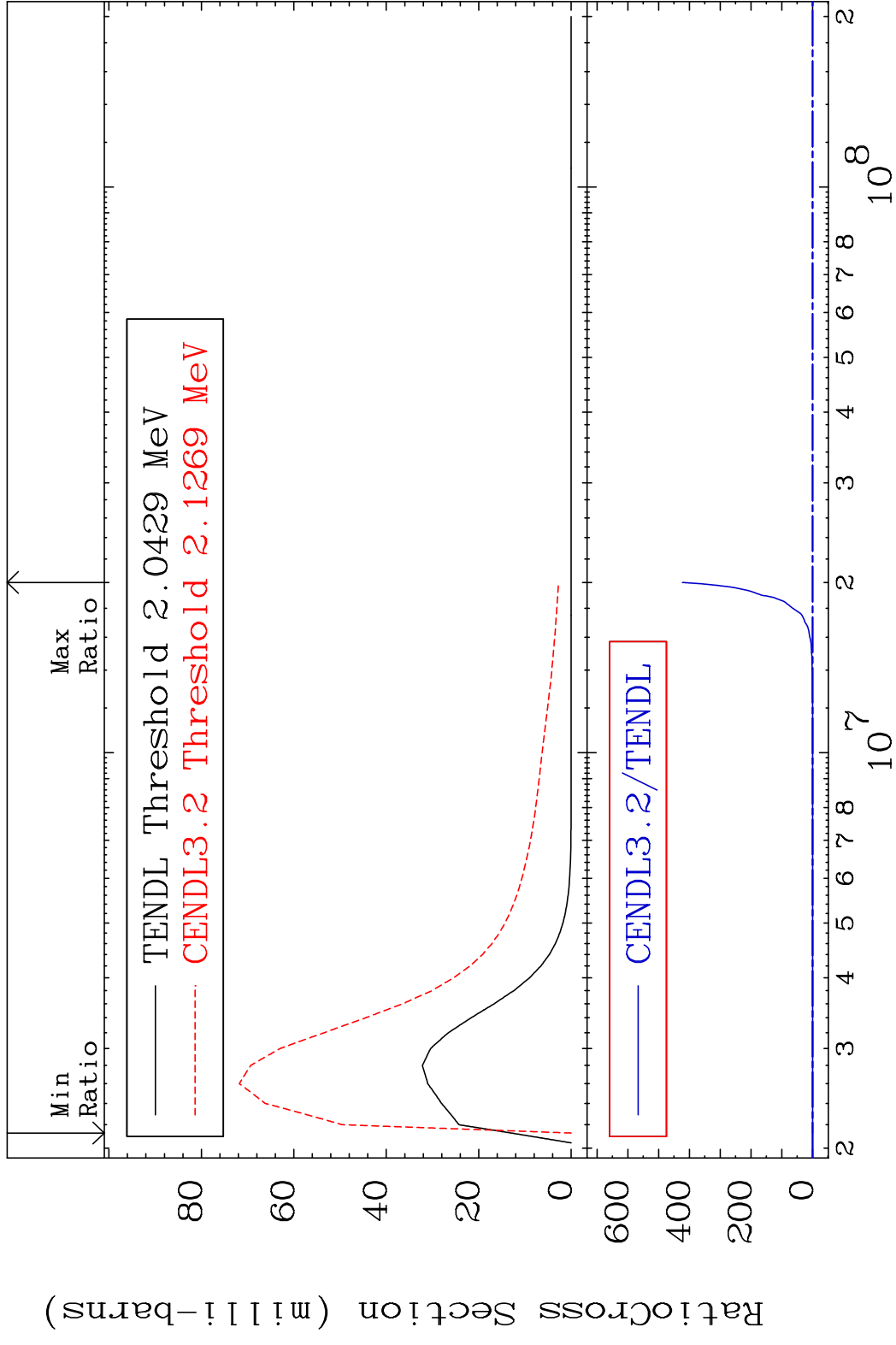
MAT 5849 MT= 65 (n,n') Level 58-Ce-144
 Cross Section -100.0 To 9999. %



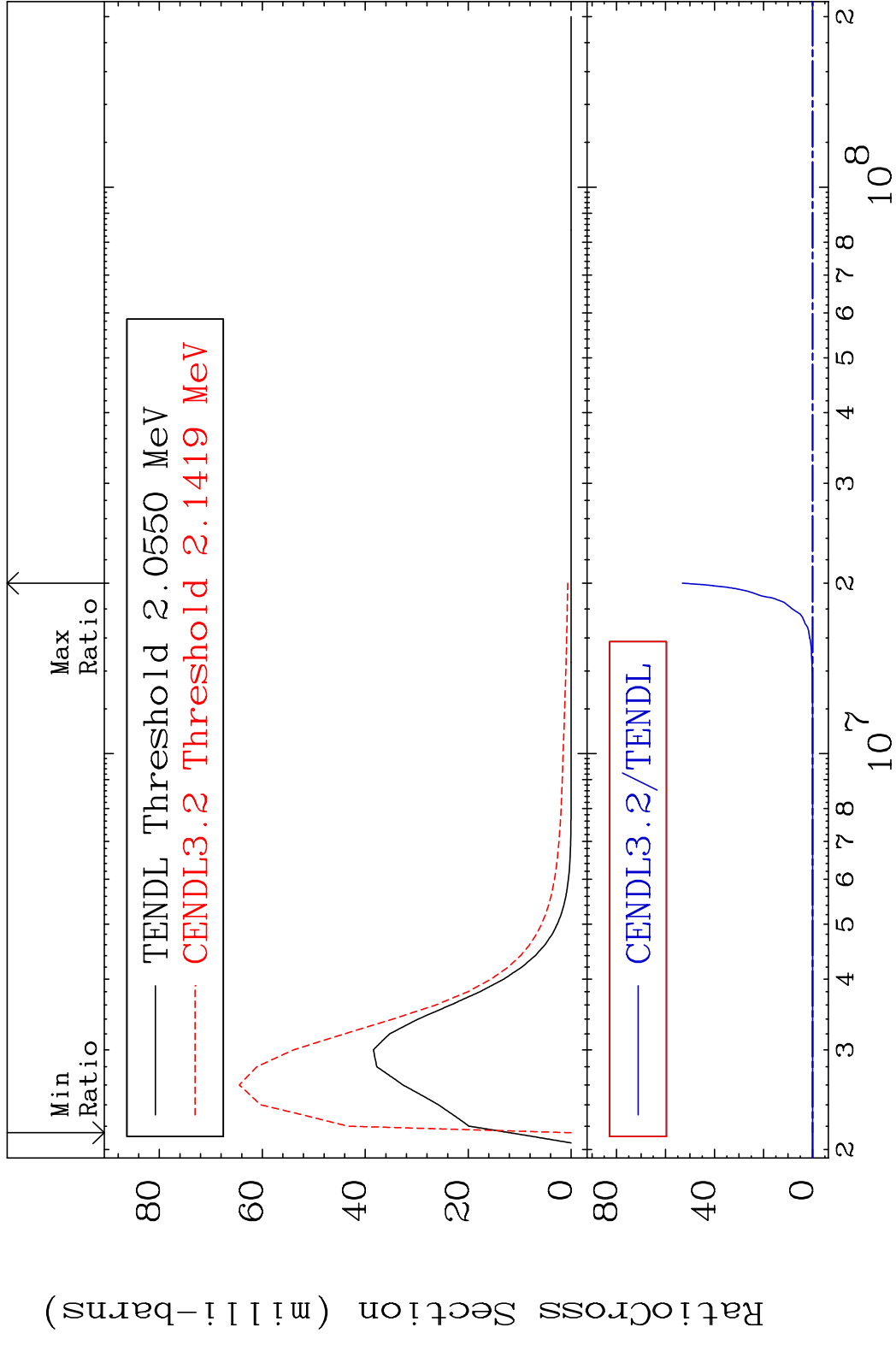
MAT 5849 MT= 66 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 9999. %



MAT 5849 MT= 67 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 9999. %

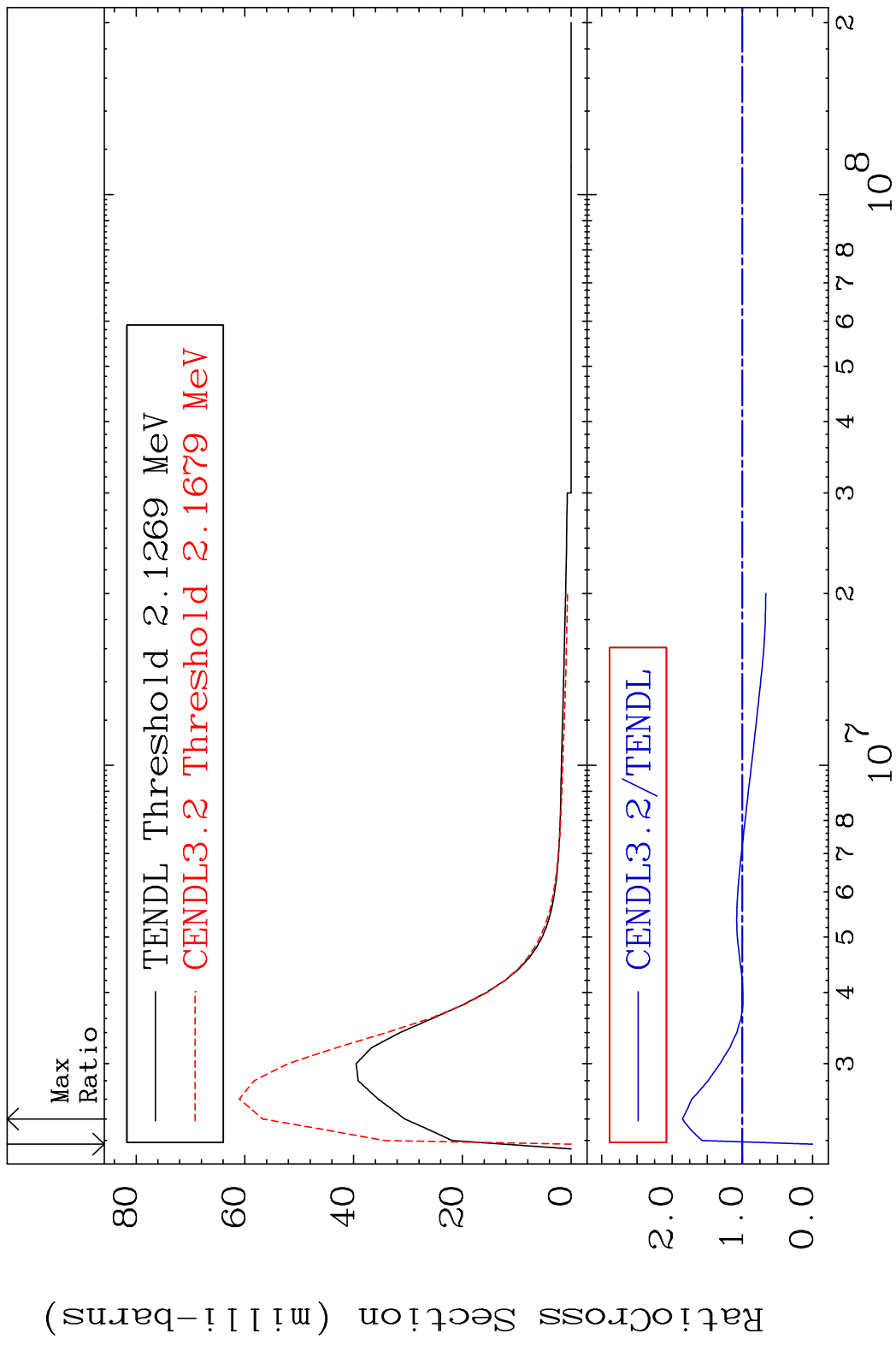


MAT 5849 MT= 68 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 9999. %

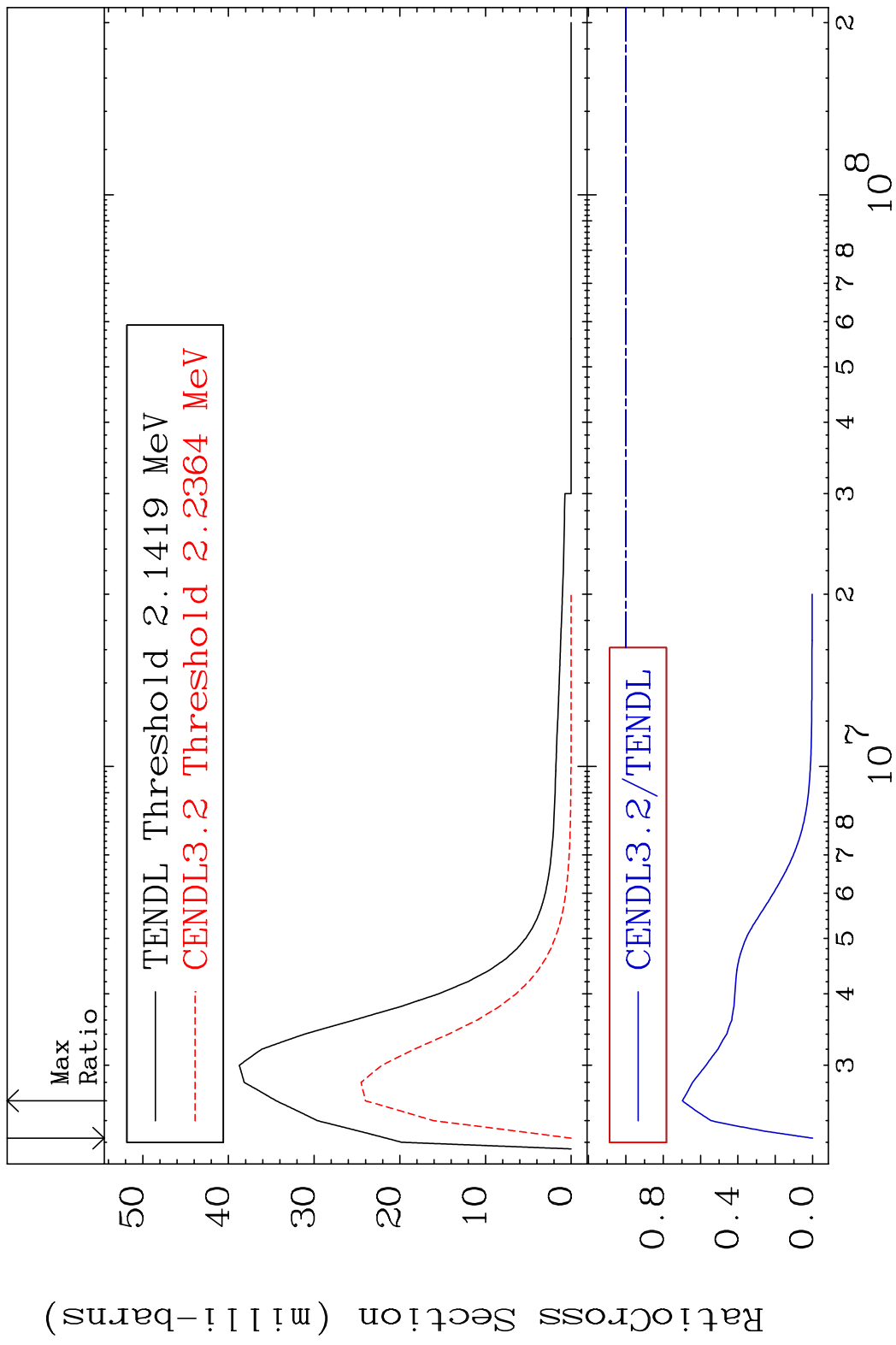


25 Incident Energy (eV) 58-Ce-144

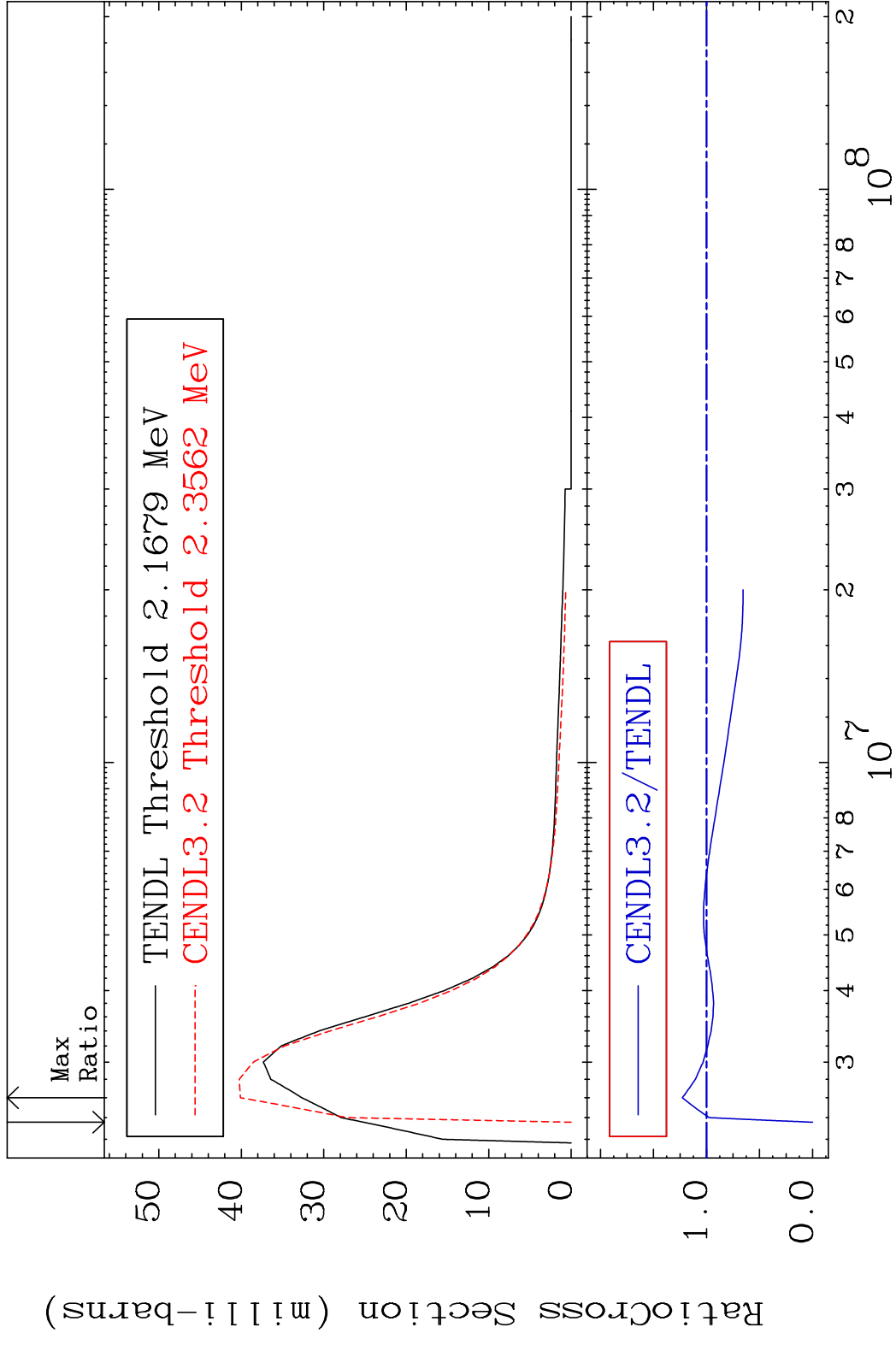
MAT 5849 MT= 69 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 85.31 %



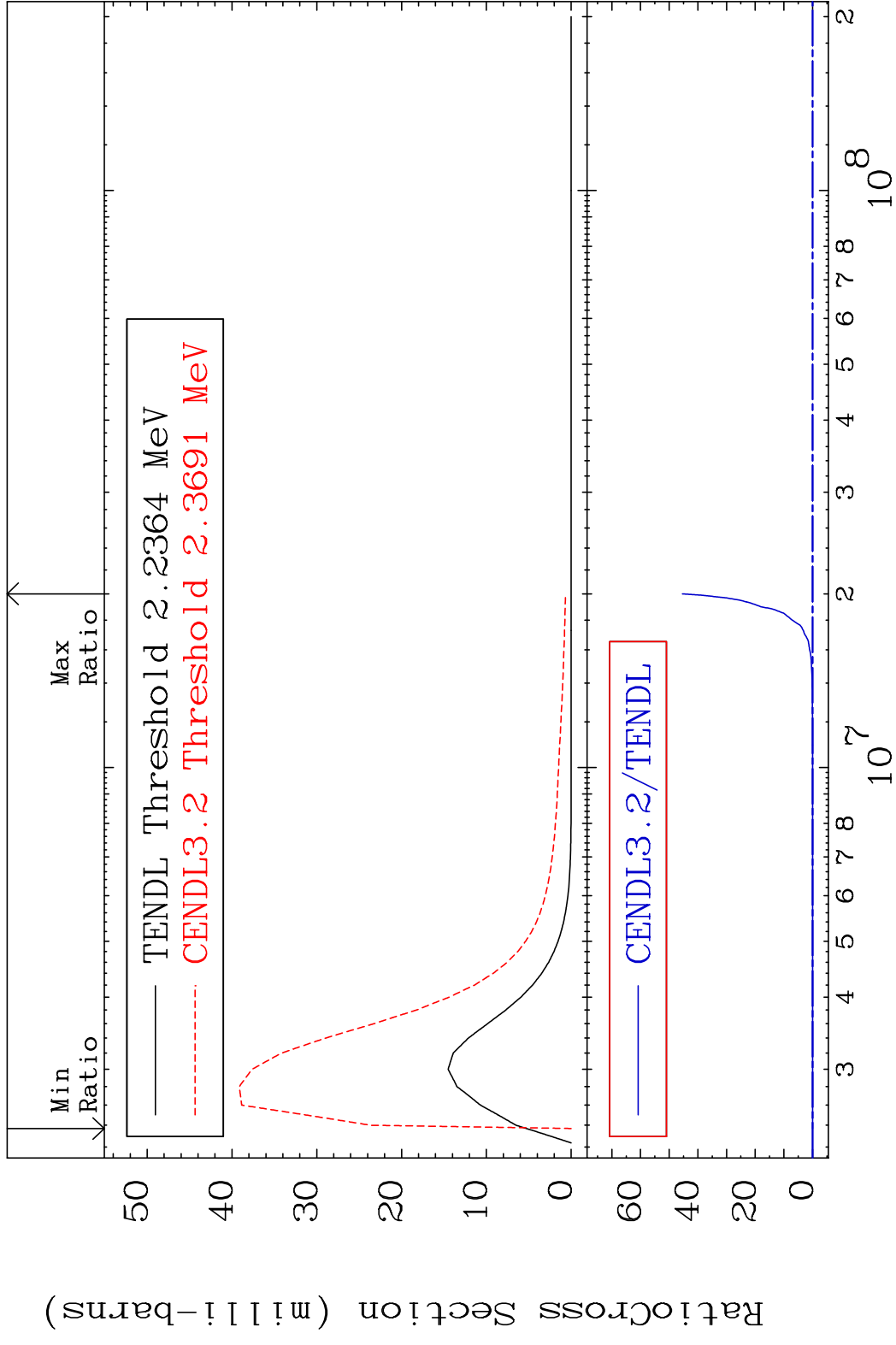
MAT 5849 MT= 70 (n, n') Level 58-Ce-144
 Cross Section -100.0 To -30.27%



MAT 5849 MT= 71 (n,n') Level 58-Ce-144
 Cross Section -100.0 To 22.79 %

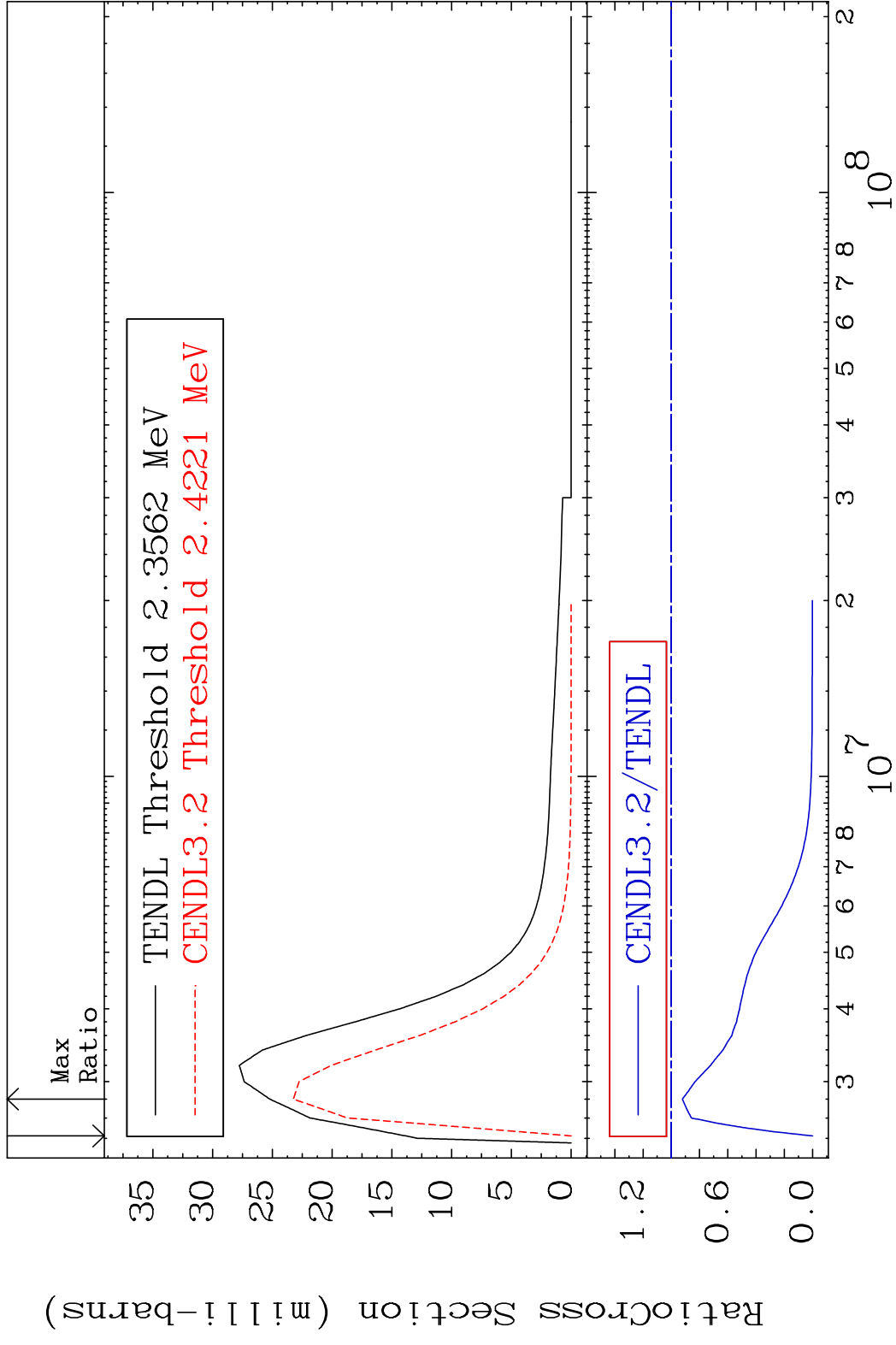


MAT 5849 MT= 72 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 9999. %



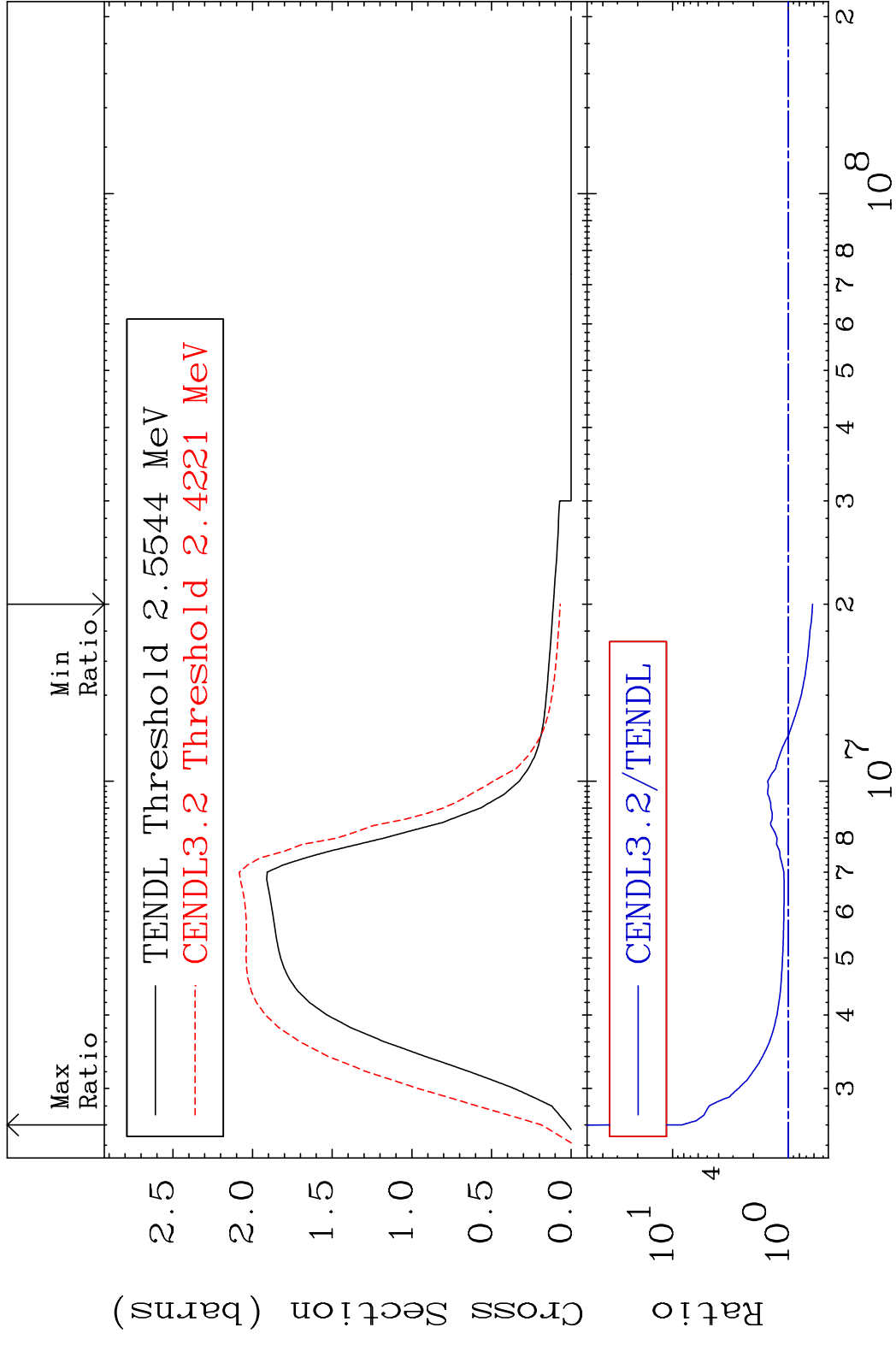
29 Incident Energy (eV) 58-Ce-144

MAT 5849 MT= 73 (n, n') Level 58-Ce-144
 Cross Section -100.0 To -7.820%



30 Incident Energy (eV) 58-Ce-144

MAT 5849 (n,n') Continuum 58-Ce-144
 Cross Section -38.42 To 722.5 %

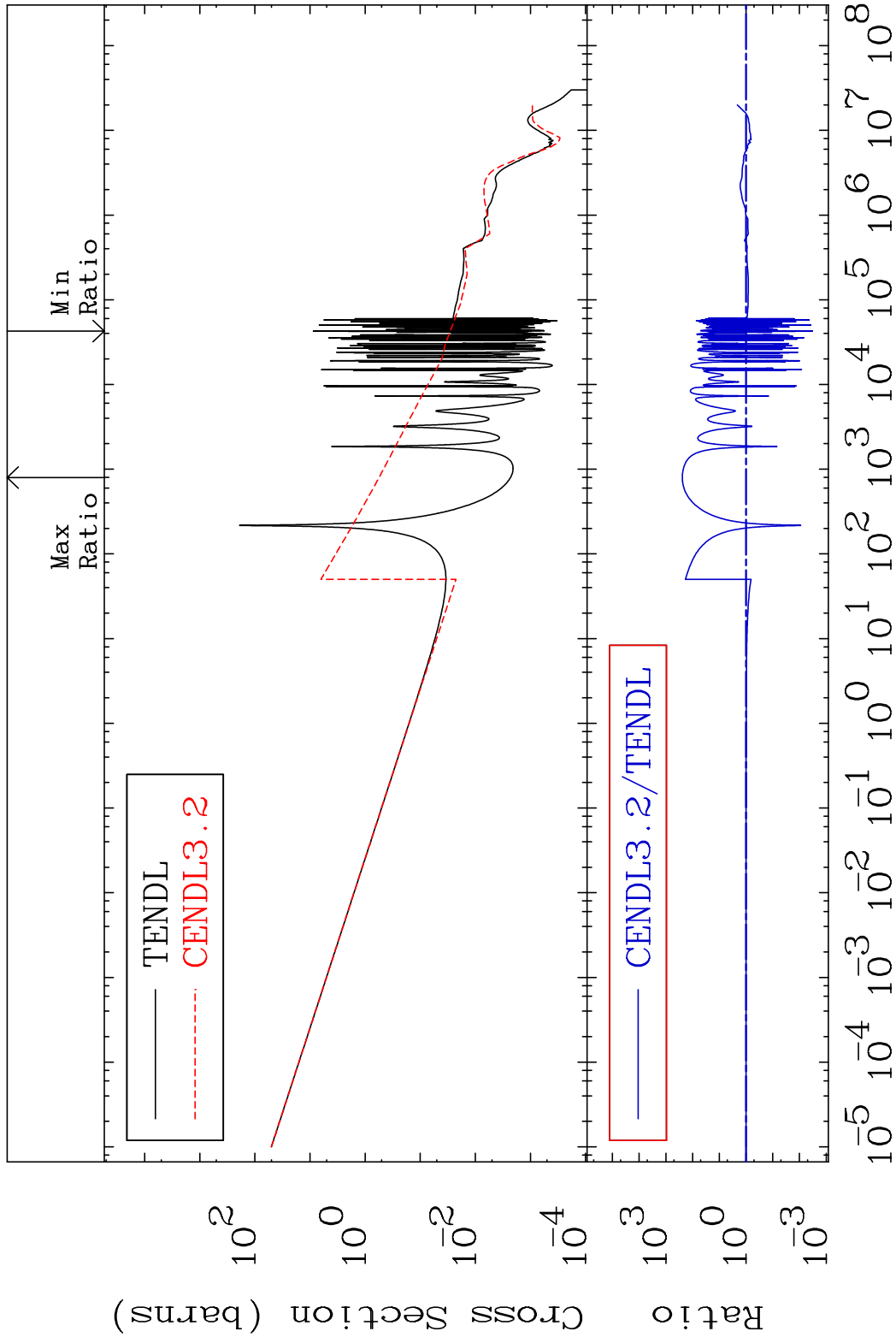


MAT 5849

(n, γ)

58-Ce-144

Cross Section -99.68 To 9999. %



32

Incident Energy (eV)

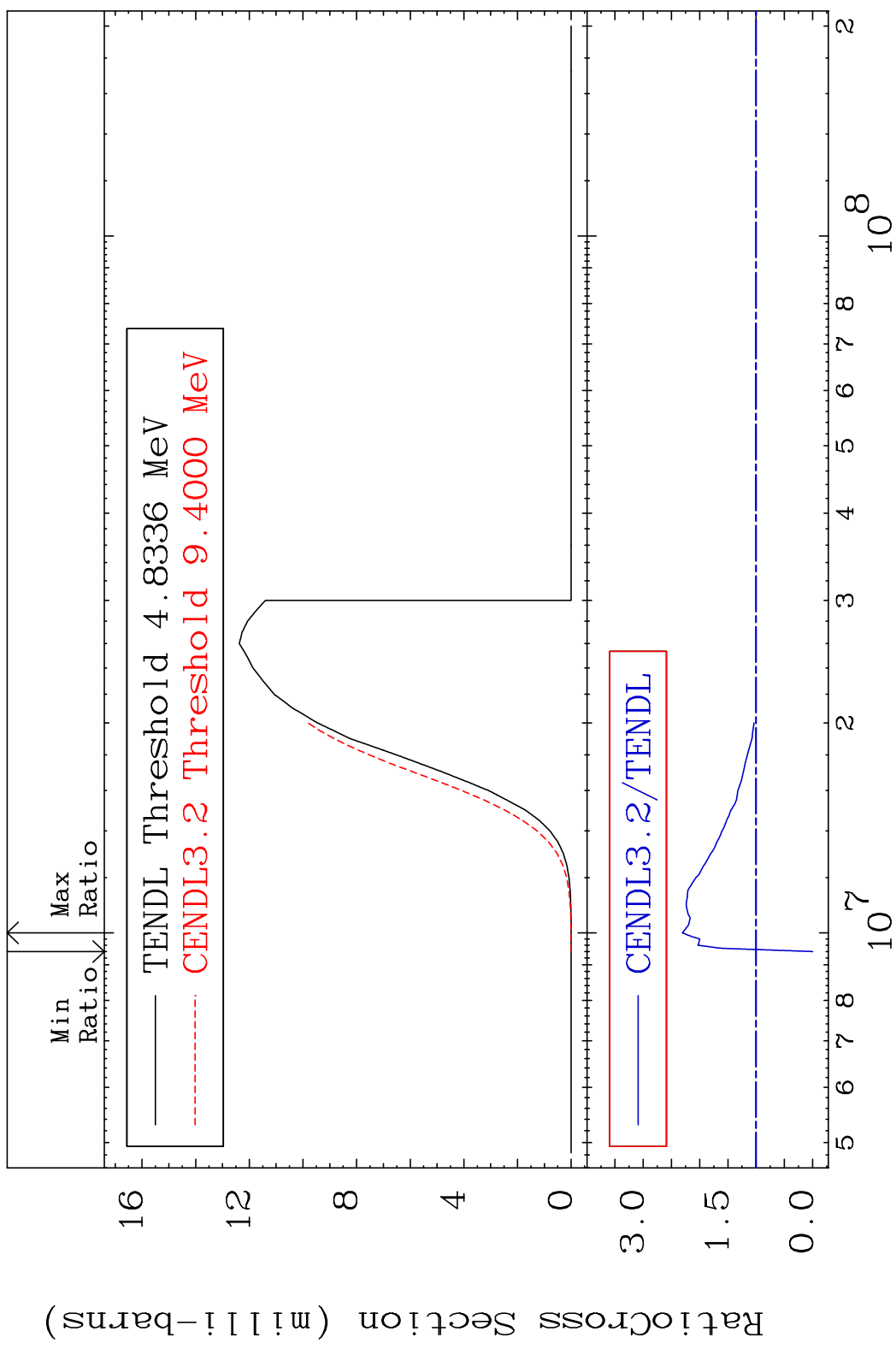
58-Ce-144

MAT 5849

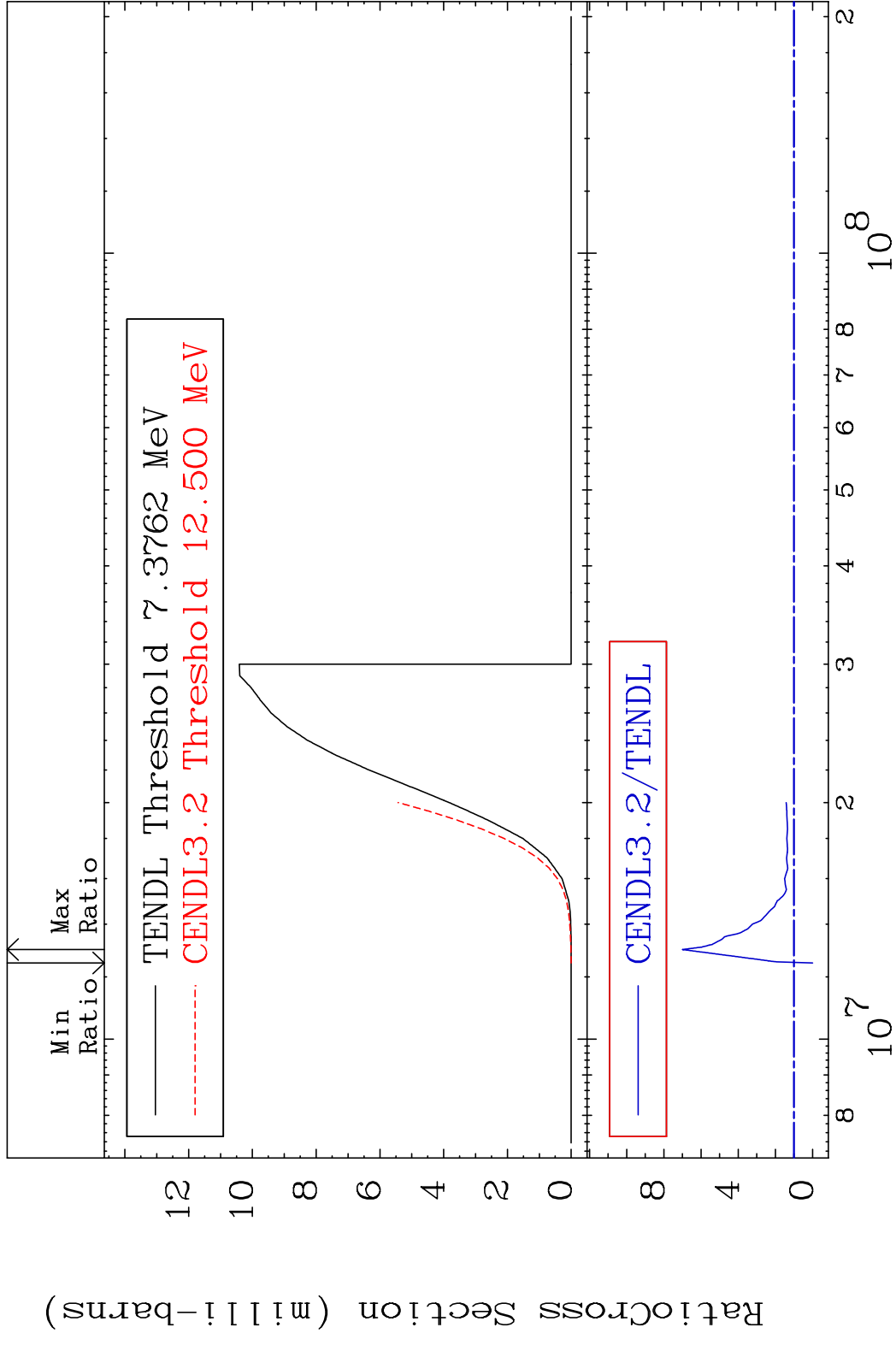
(n, p)

58-Ce-144

Cross Section -100.0 To 130.7 %



MAT 5849 (n,d) 58-Ce-144
 Cross Section -100.0 To 600.5 %

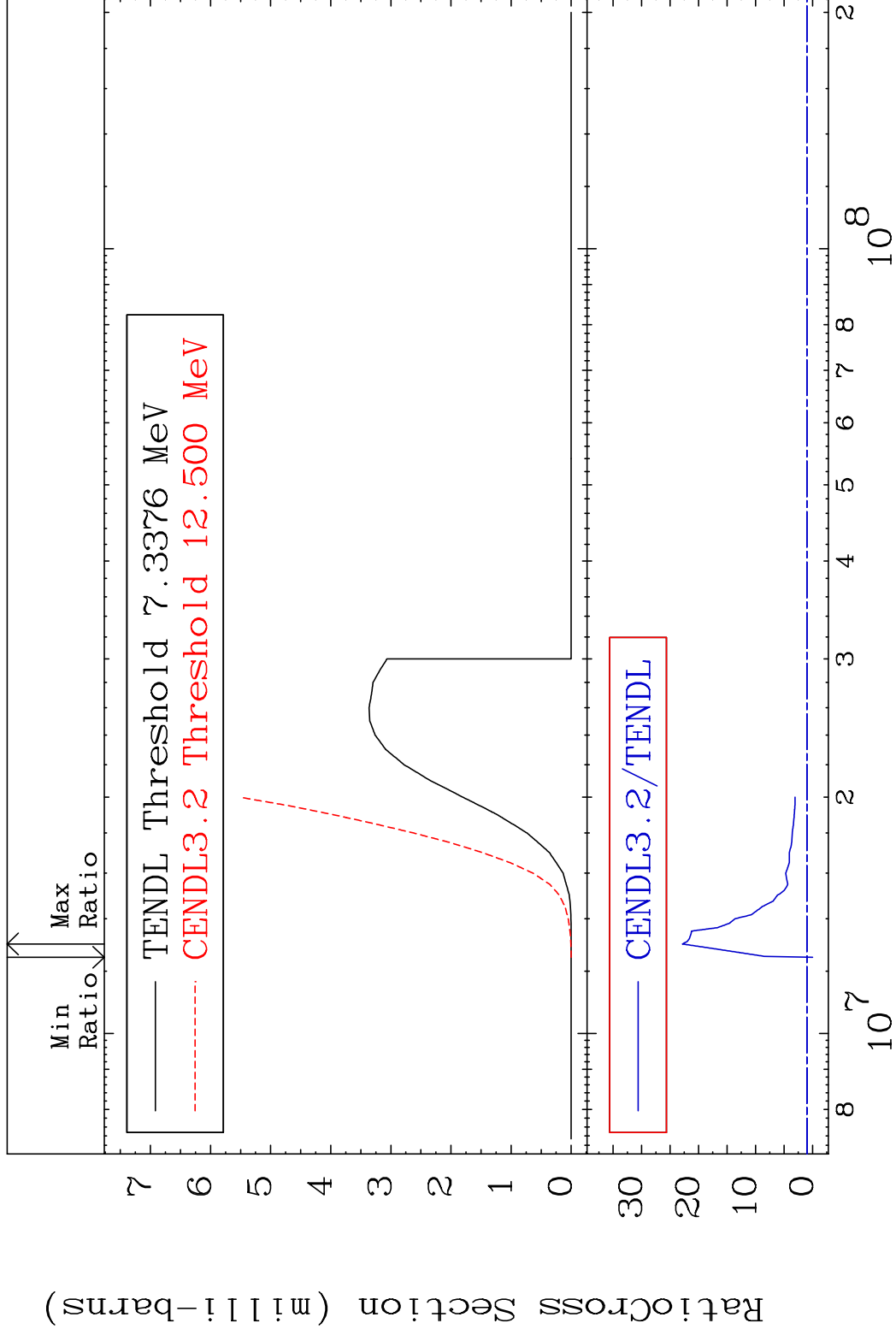


MAT 5849

(n, t)

58-Ce-144

Cross Section -100.0 To 2184. %



35

Incident Energy (eV)

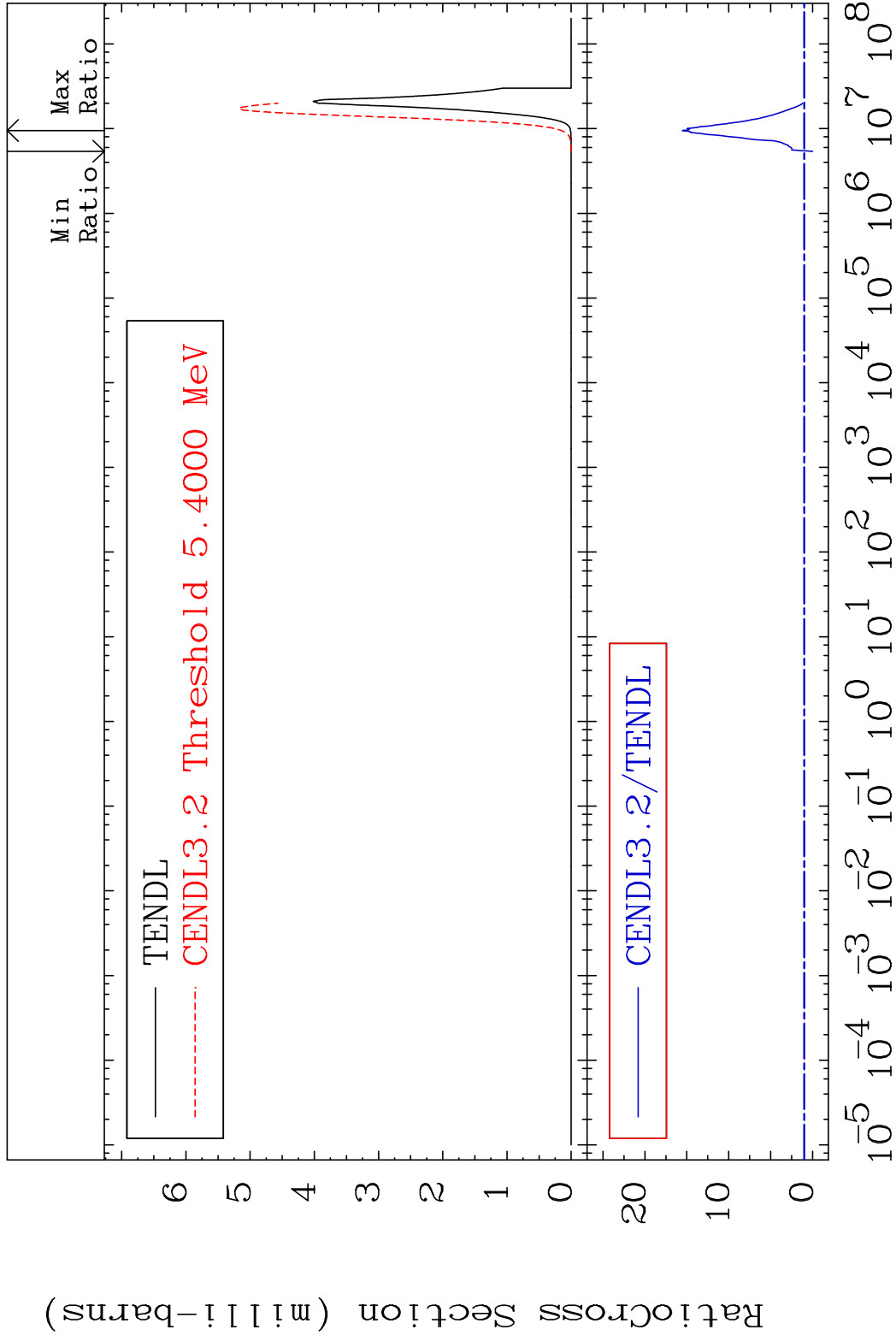
58-Ce-144

MAT 5849

(n, α)

58-Ce-144

Cross Section -100.0 To 1453. %



36

Incident Energy (eV)

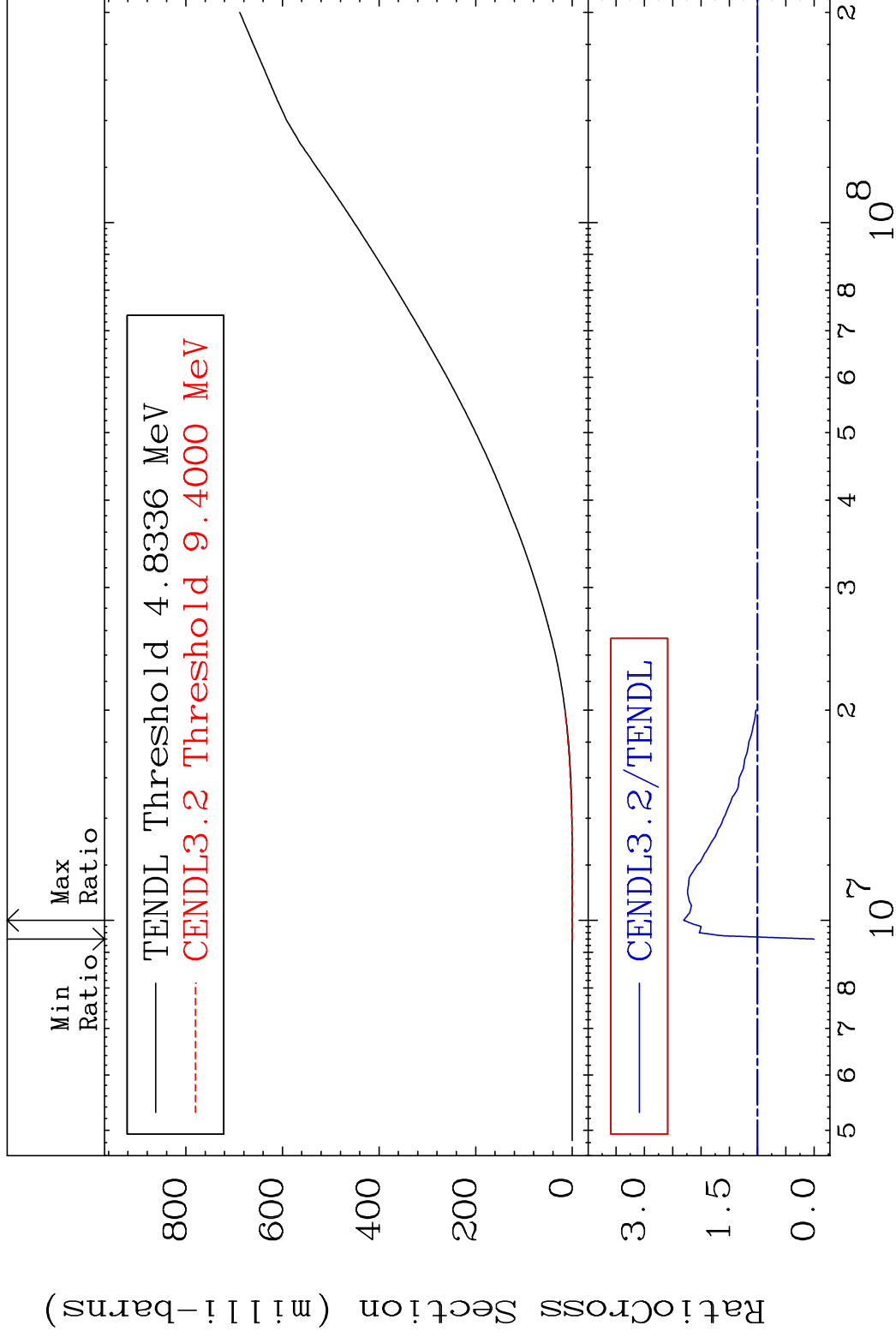
58-Ce-144

MAT 5849

Hydrogen Production

58-Ce-144

Cross Section -100.0 To 130.7 %



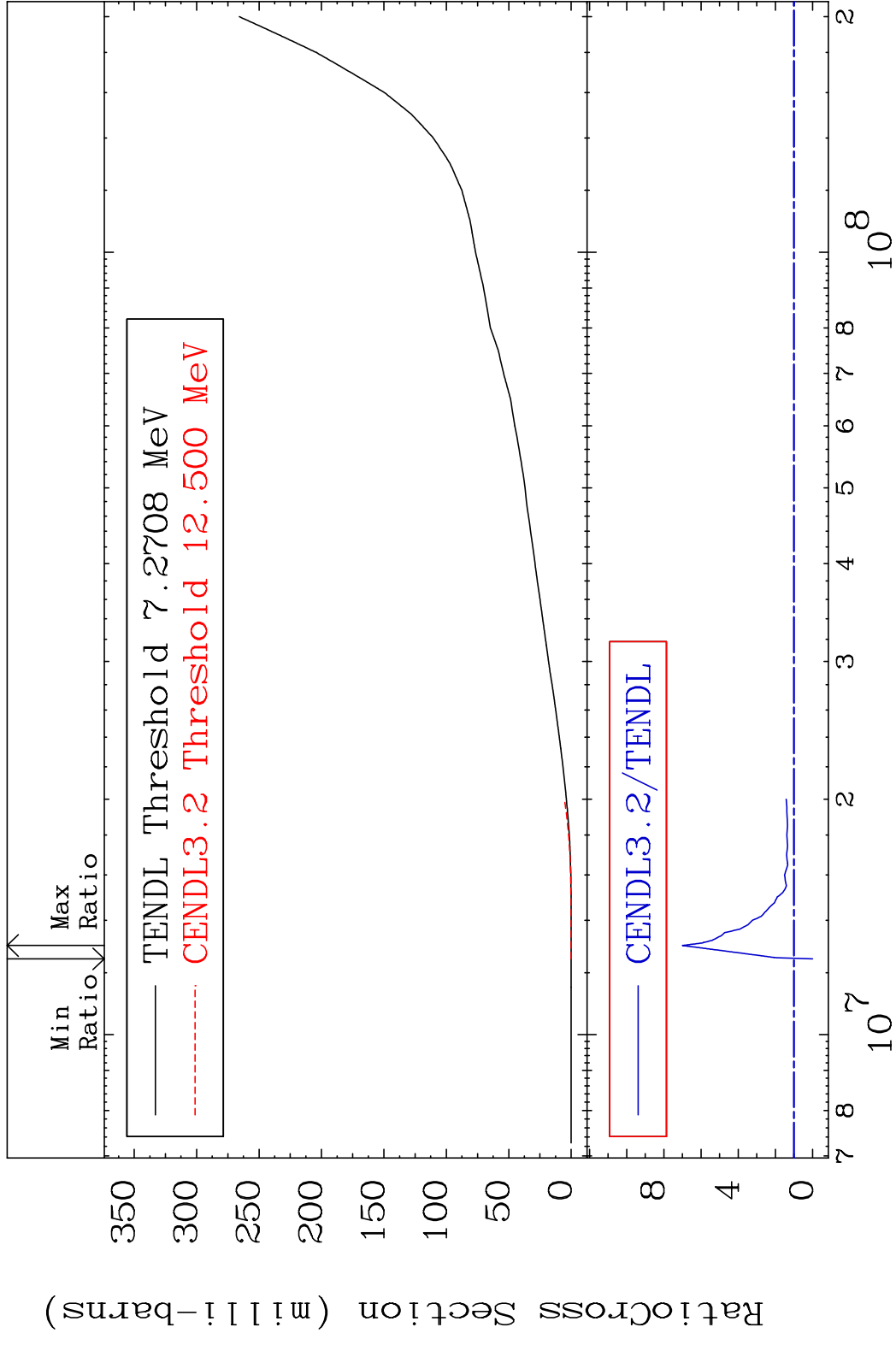
37

Incident Energy (eV)

58-Ce-144

MAT 5849

Deuterium Production 58-Ce-144
Cross Section -100.0 To 600.5 %



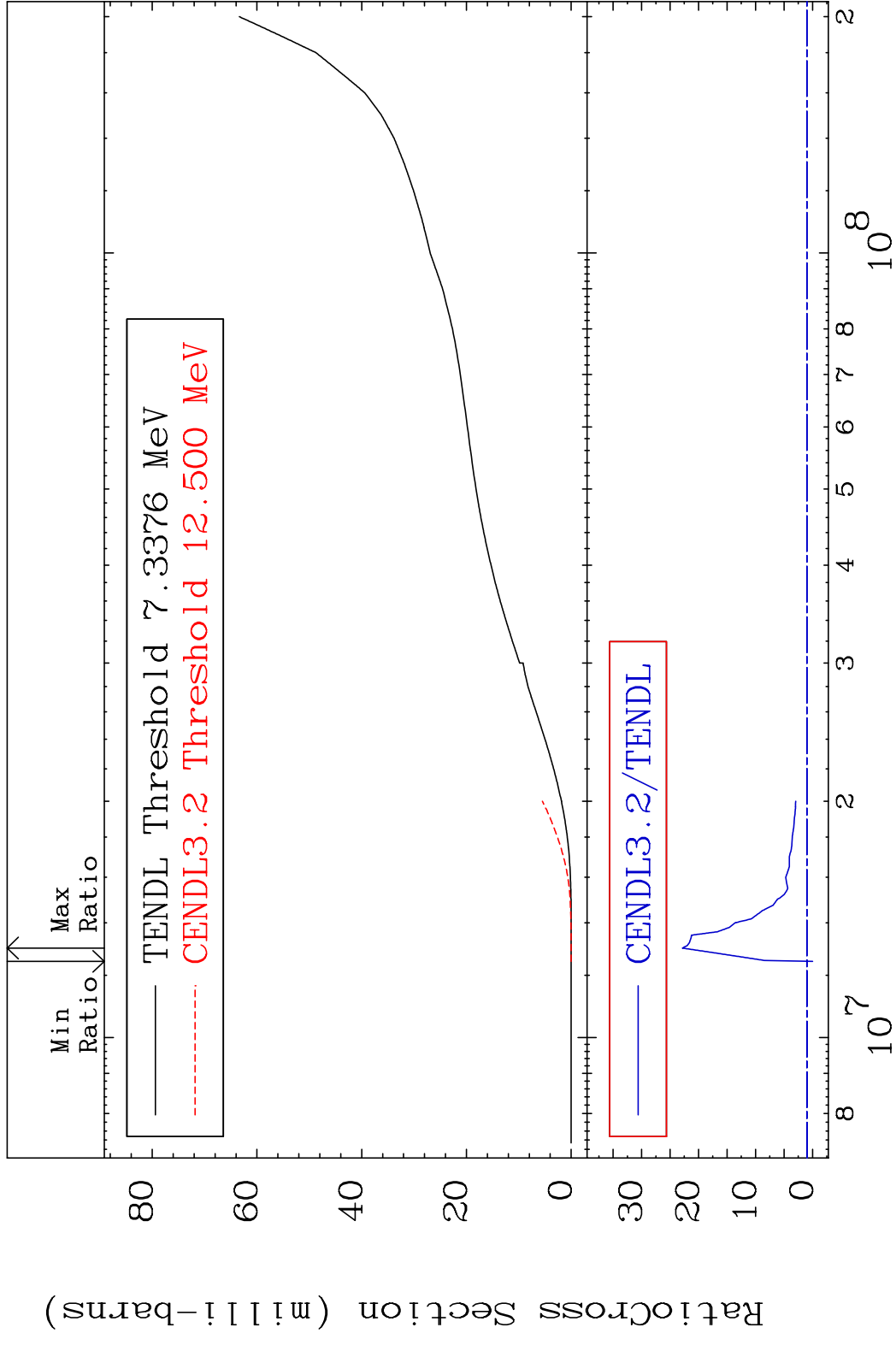
38

Incident Energy (eV)

58-Ce-144

MAT 5849

Tritium Production 58-Ce-144
Cross Section -100.0 To 2184. %



39

Incident Energy (eV)

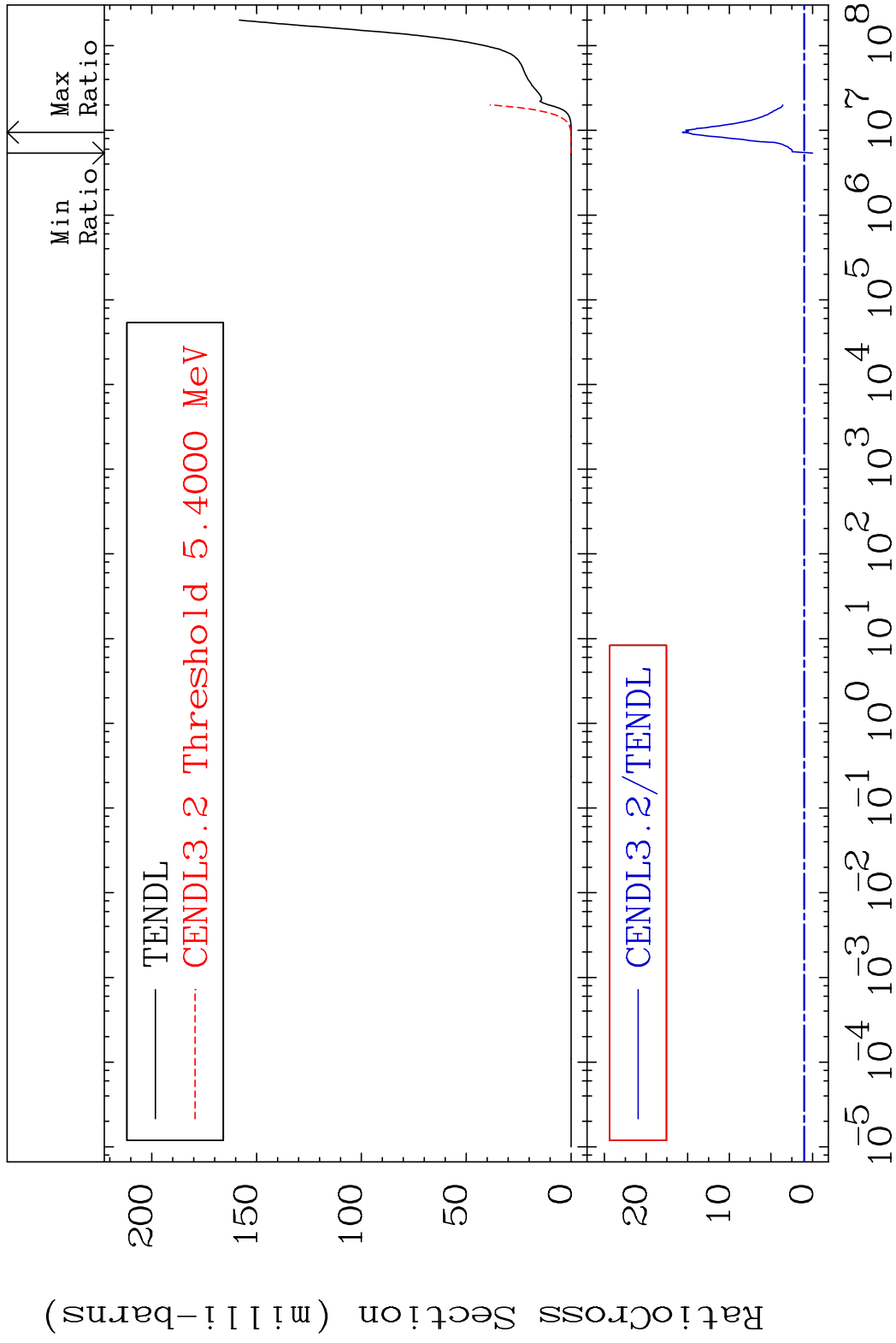
58-Ce-144

MAT 5849

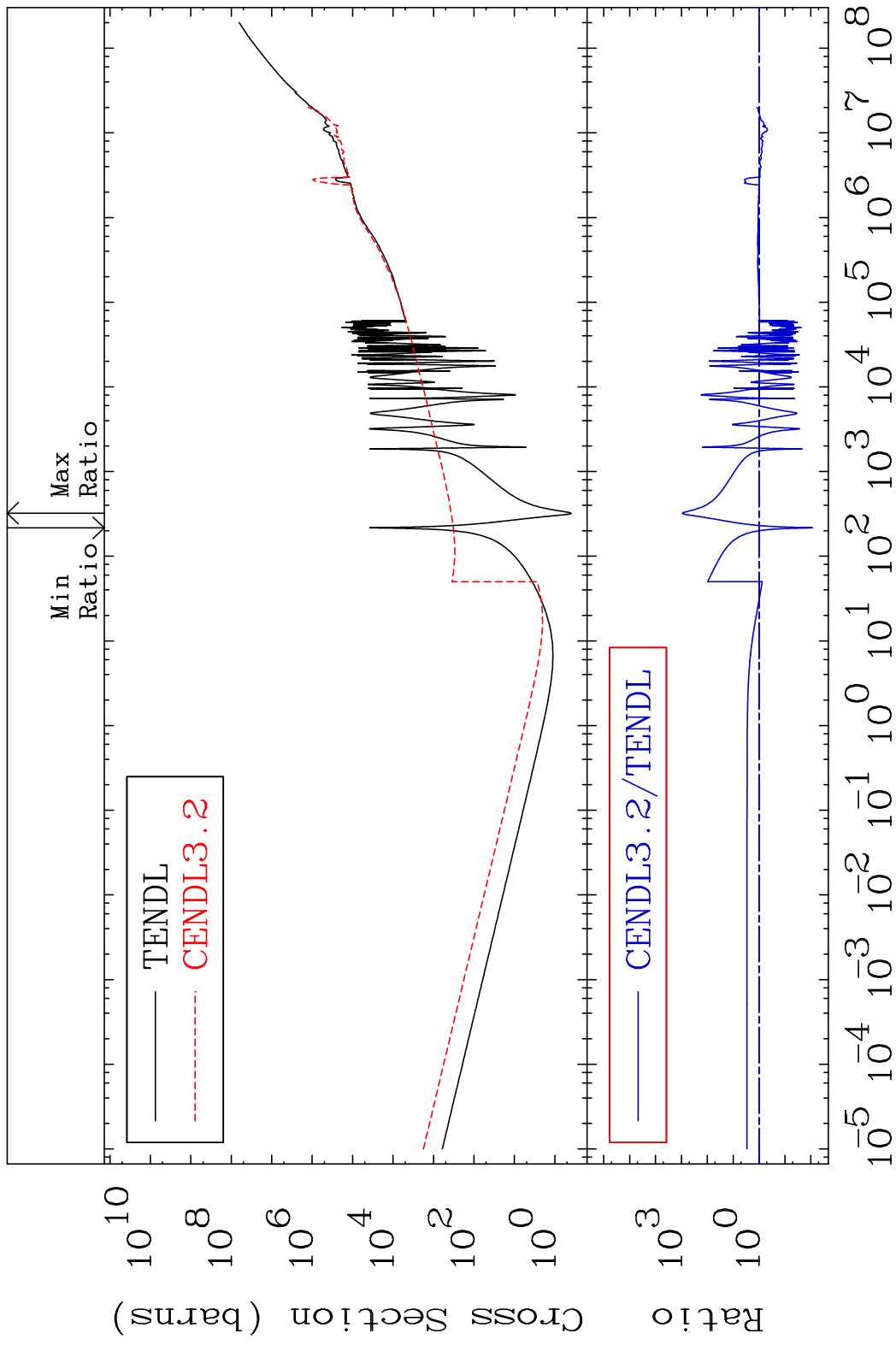
He-4 Production

58-Ce-144

Cross Section -100.0 To 1464. %



MAT 5849 Kerma total (eV-barns) 58-Ce-144
 Cross Section -99.14 To 9999. %

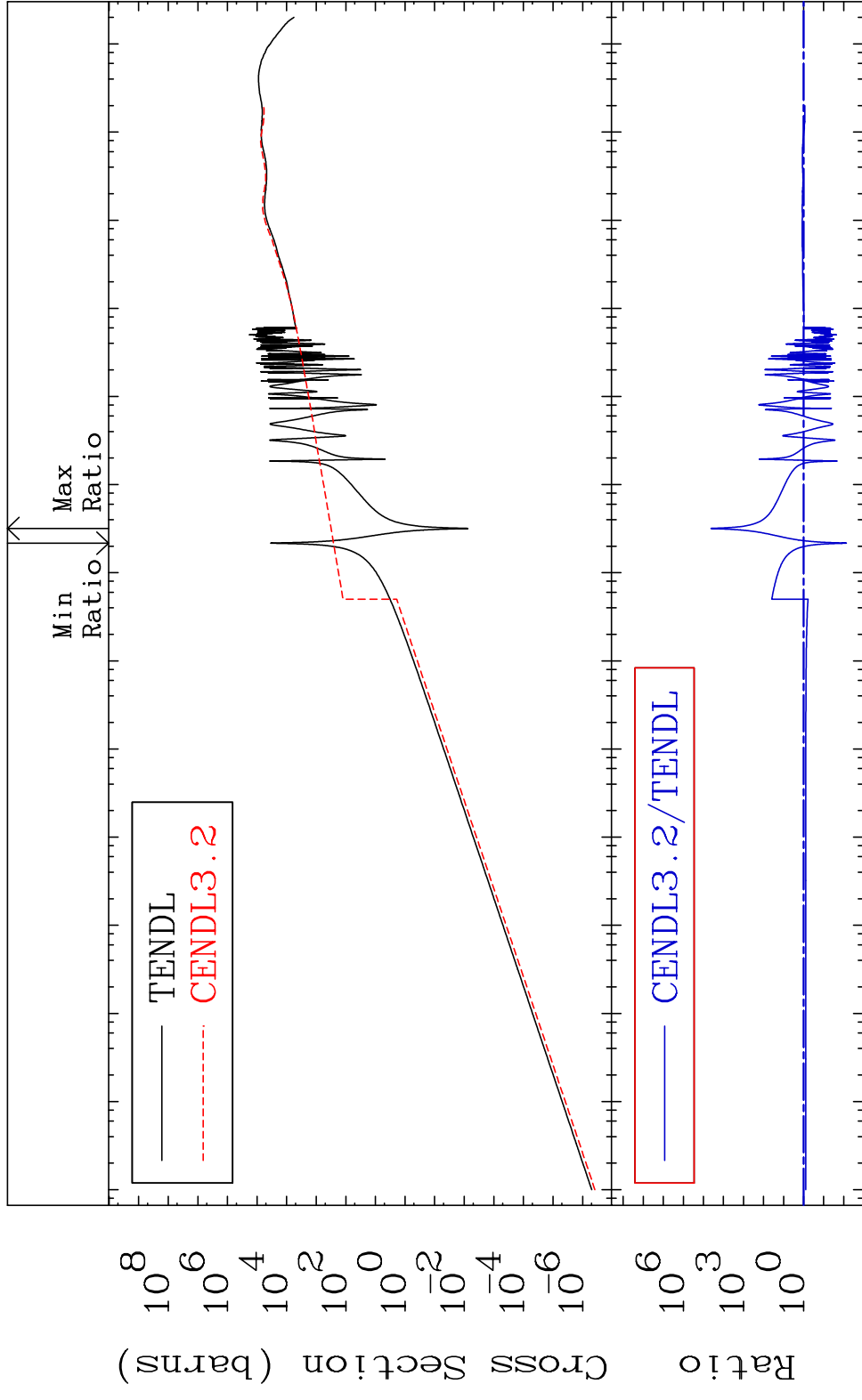


41 Incident Energy (eV) 58-Ce-144

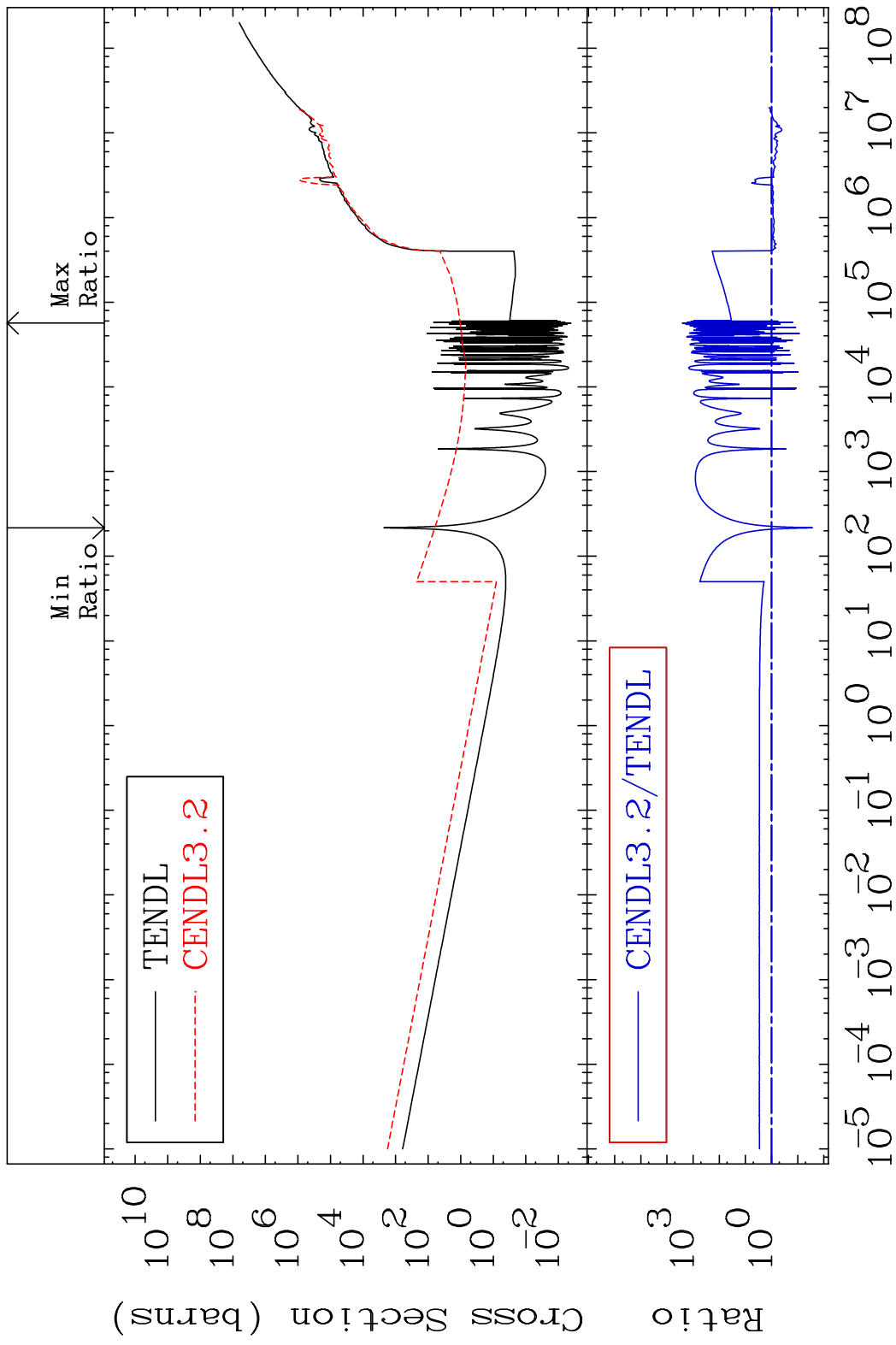
MAT 5849

Kerma elastic
Cross Section

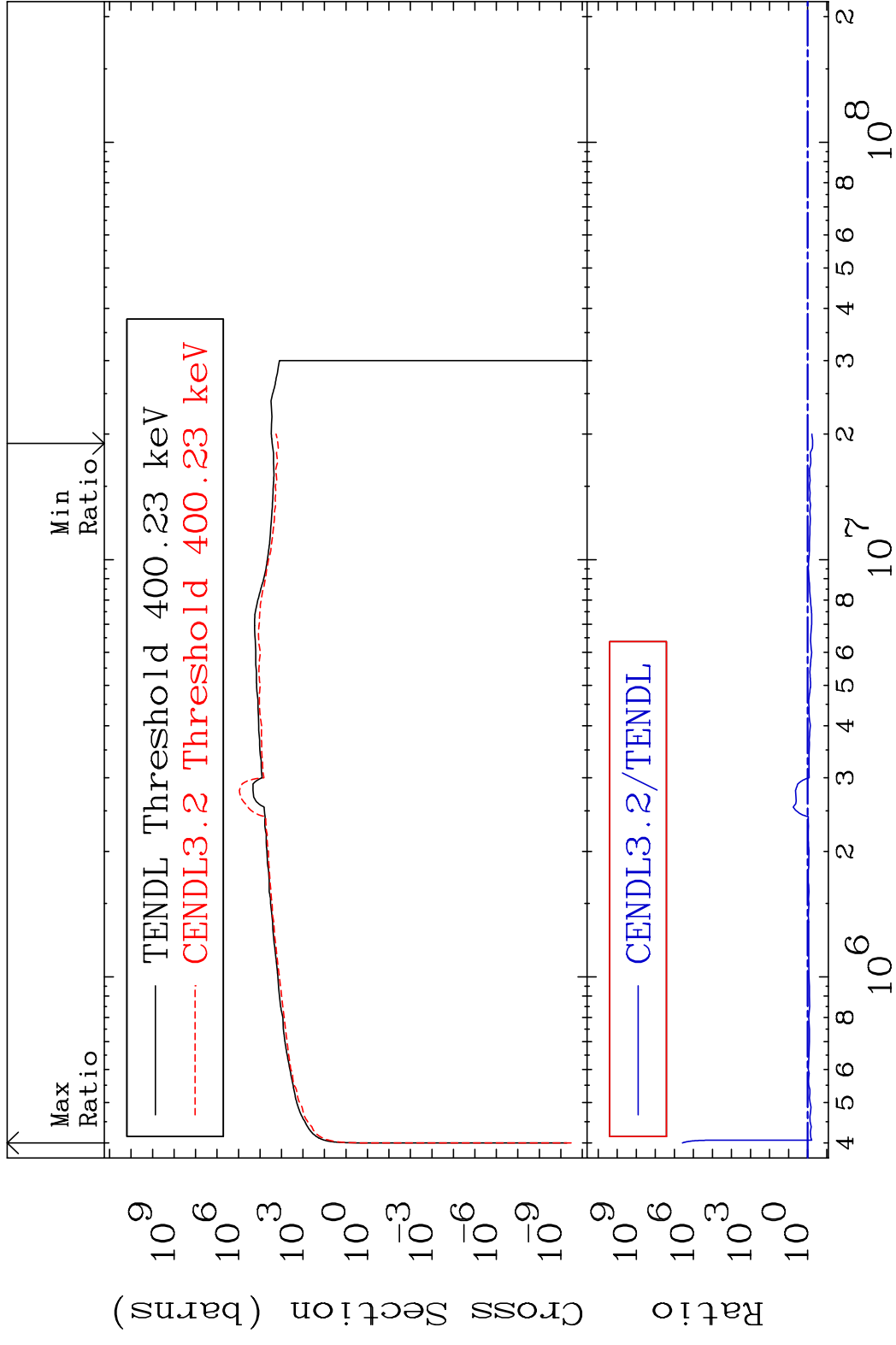
58-Ce-144
-99.26 To 9999. %



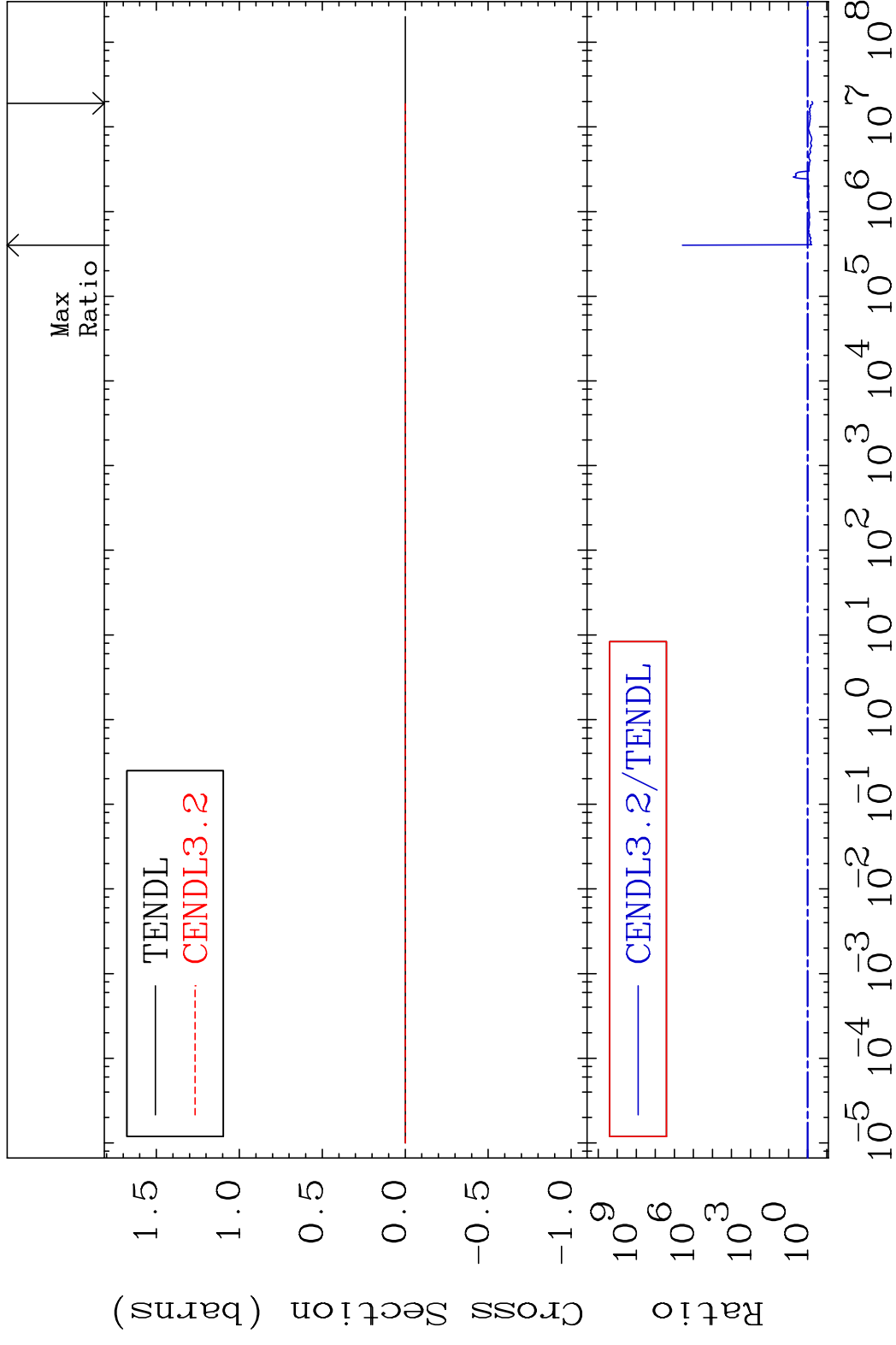
MAT 5849 Kerma non-elastic (all but mt2) 58-Ce-144
 Cross Section -97.30 To 9999. %



MAT 5849 Kerma inelastic (mt51-91) 58-Ce-144
 Cross Section -45.12 To 9999. %



MAT 5849 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-144
 Cross Section -45.12 To 9999. %

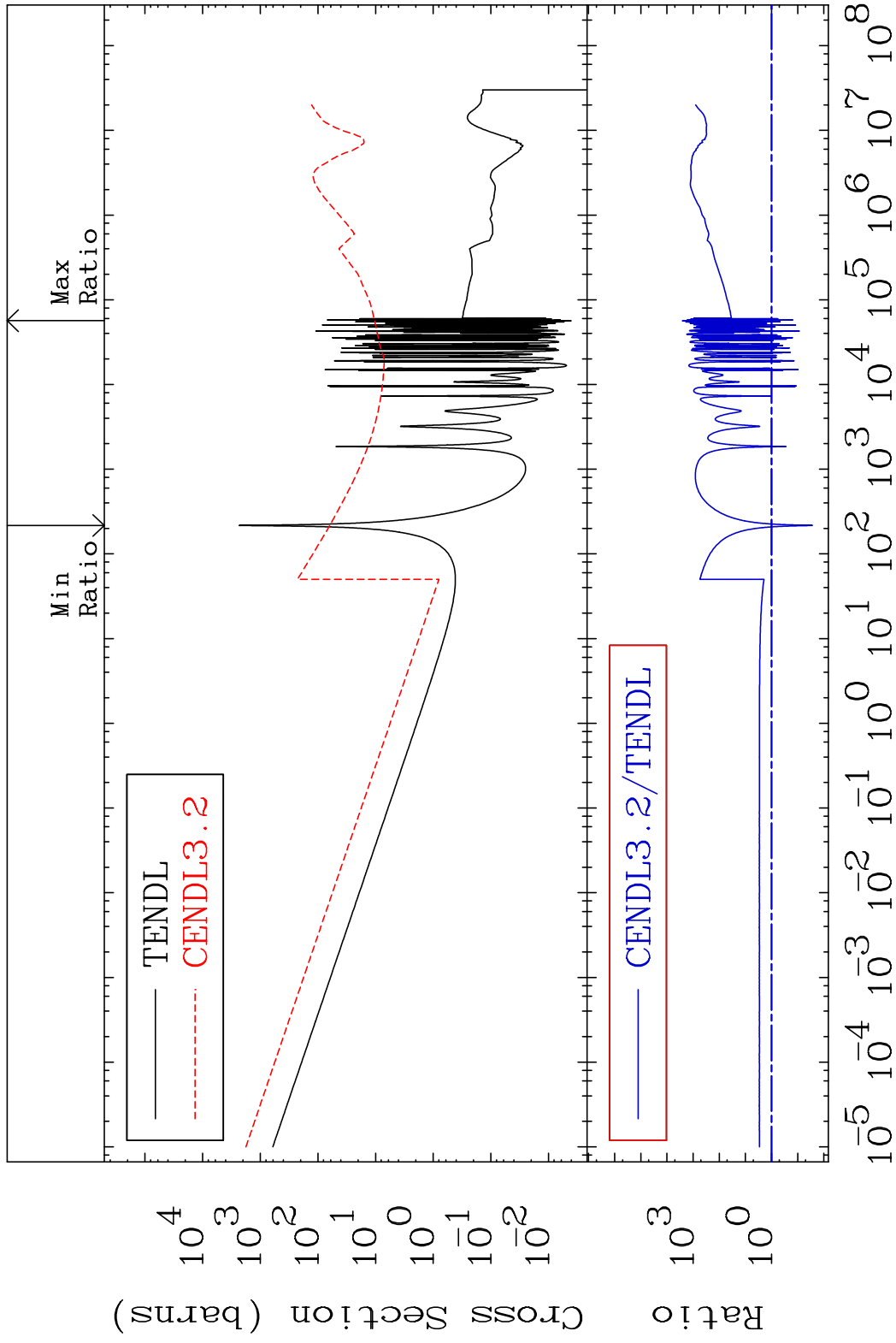


MAT 5849

Kerma capture (mt102)

58-Ce-144

Cross Section -97.30 To 9999. %

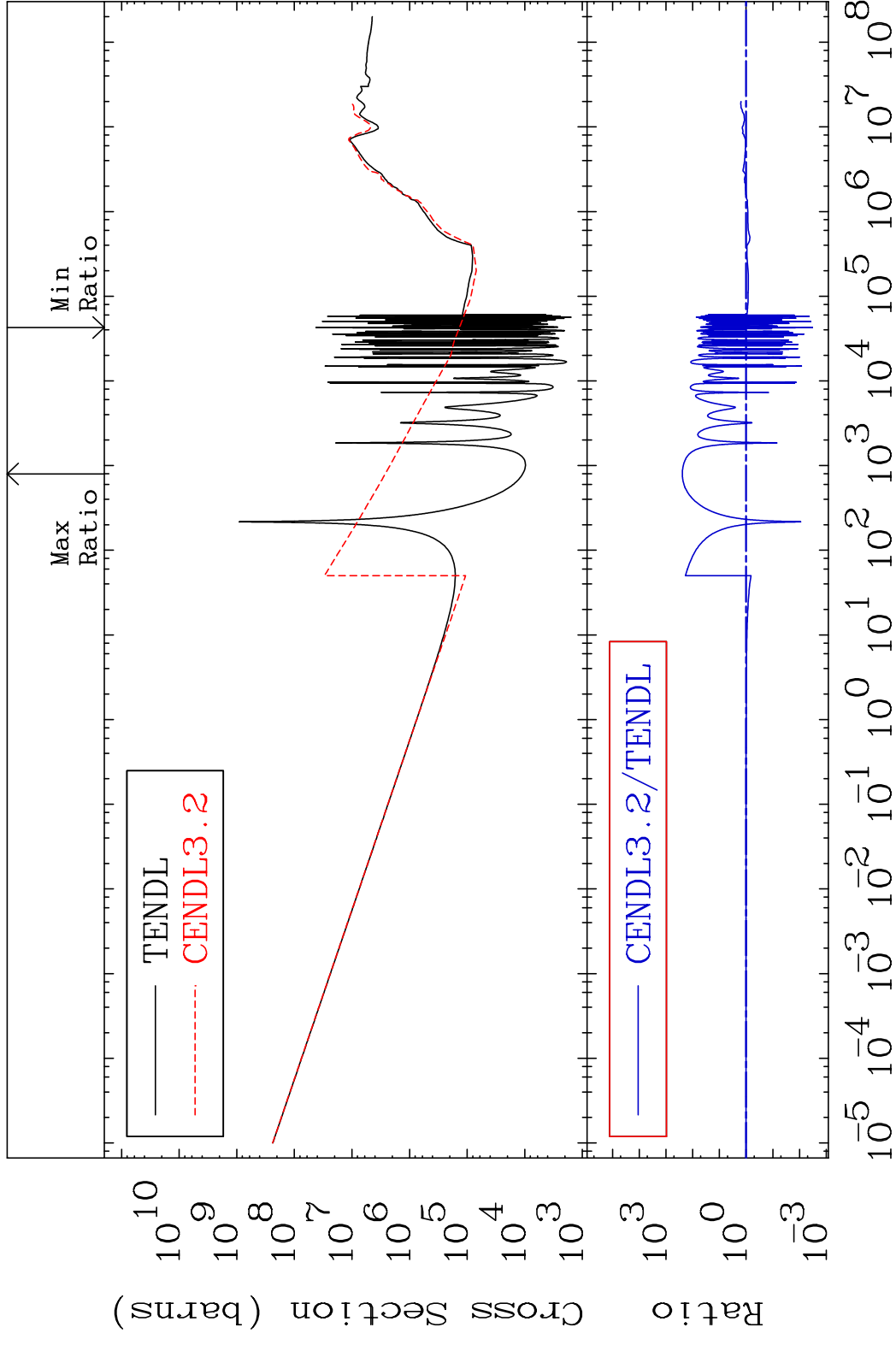


46

Incident Energy (eV)

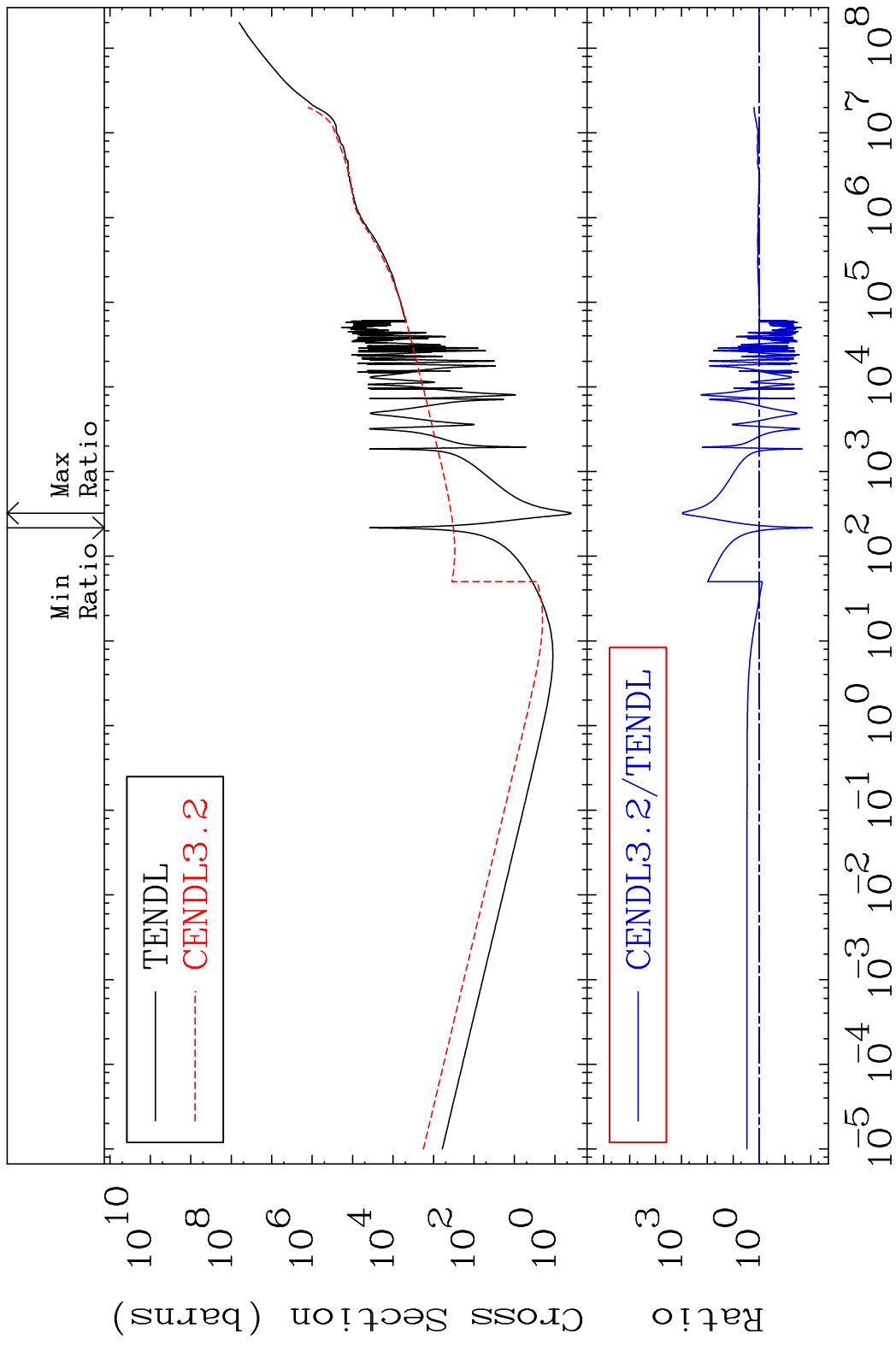
58-Ce-144

MAT 5849 Total photon (eV-barns) 58-Ce-144
 Cross Section -99.67 To 9999. %



47 Incident Energy (eV) 58-Ce-144

MAT 5849 Total kinematic kerma (high limit) 58-Ce-144
 Cross Section -99.14 To 9999. %

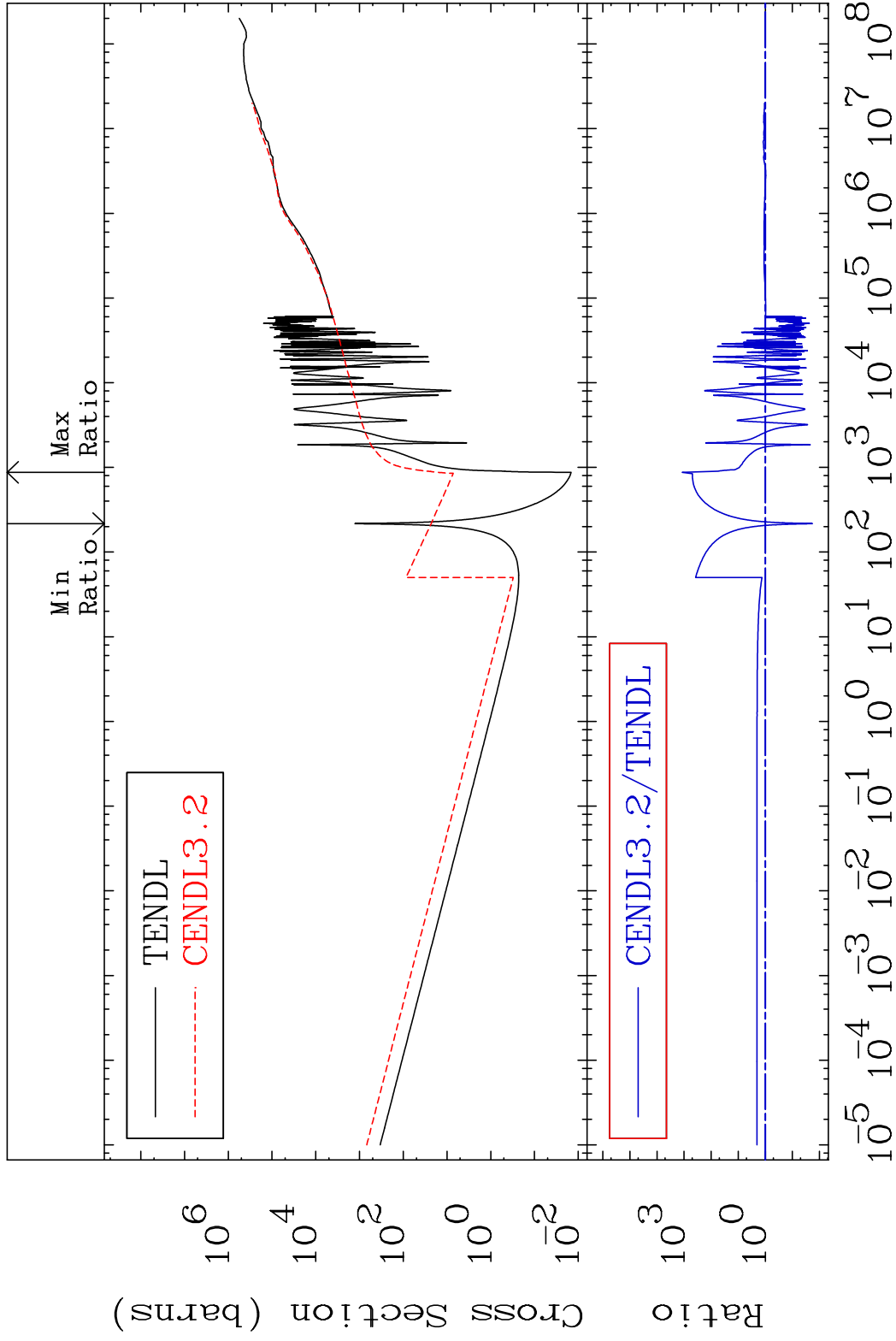


MAT 5849

Dpa total (eV-barns)

58-Ce-144

Cross Section -98.20 To 9999. %



49

Incident Energy (eV)

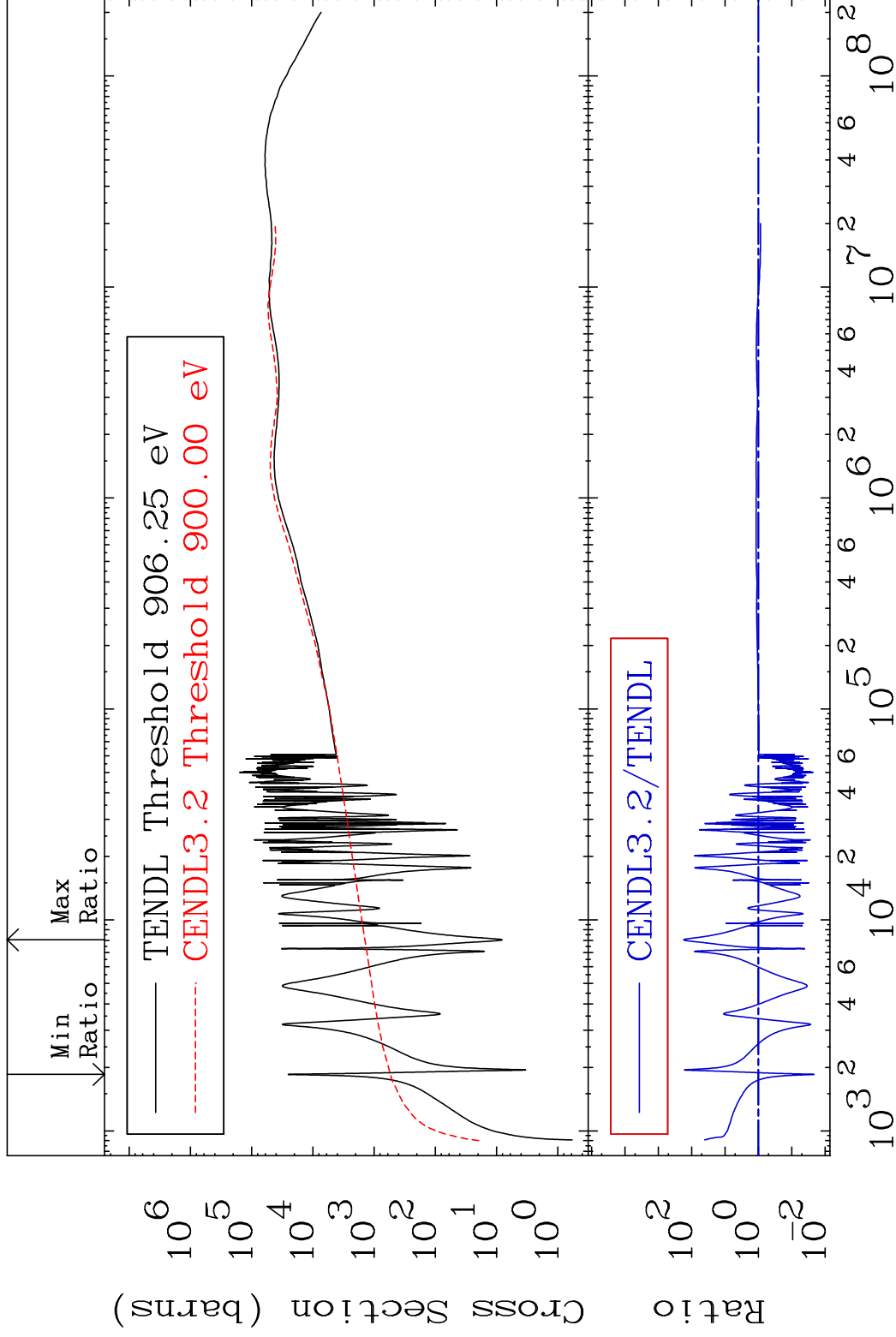
58-Ce-144

MAT 5849

Dpa elastic (mt2)

58-Ce-144

Cross Section -97.87 To 9999. %

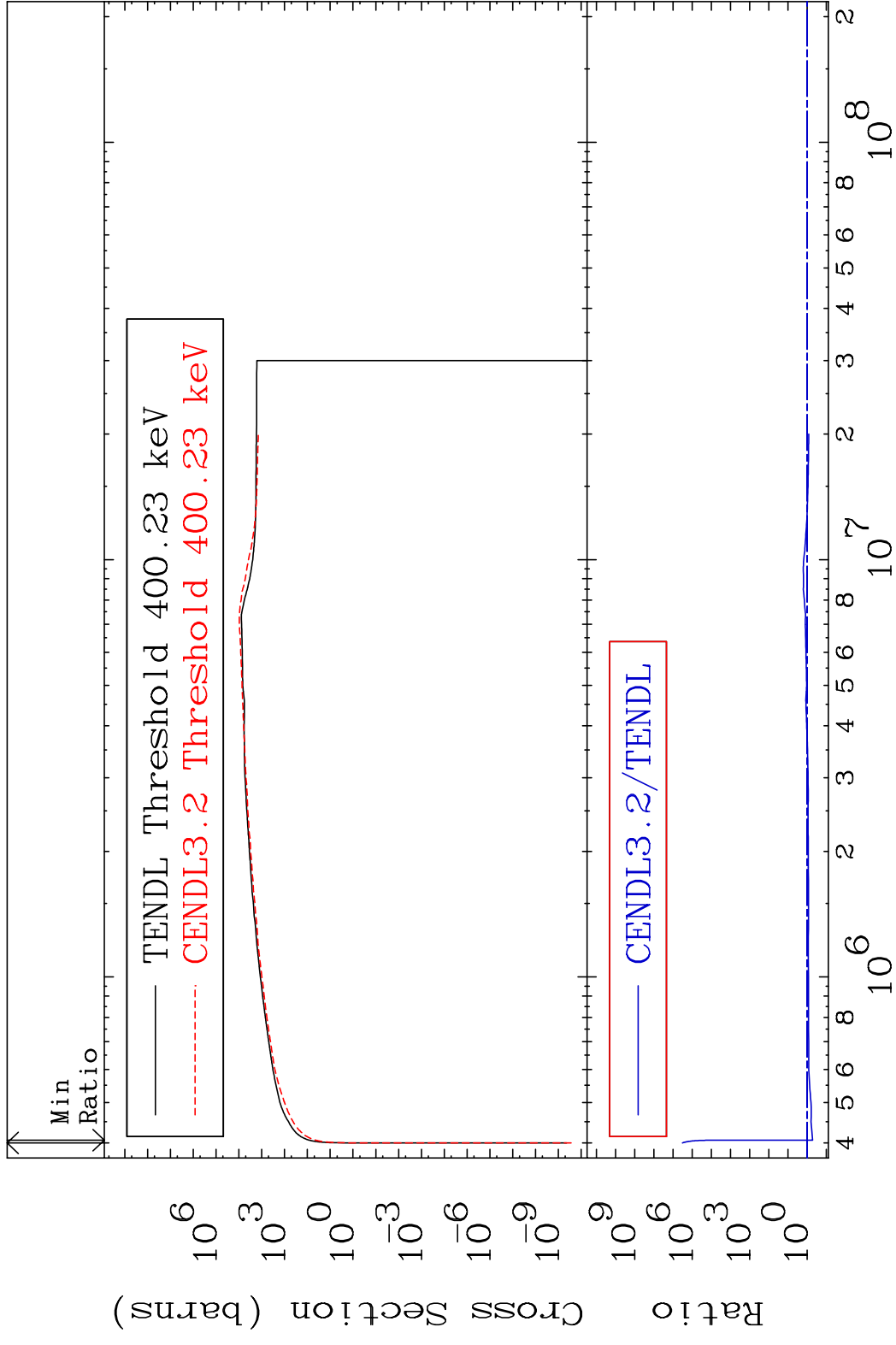


50

Incident Energy (eV)

58-Ce-144

MAT 5849 Dpa inelastic (mt51-91) 58-Ce-144
 Cross Section -47.53 To 9999. %



MAT 5849 Dpa disappearance (mt102 -120) 58-Ce-144
 Cross Section -99.33 To 9999. %

