

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

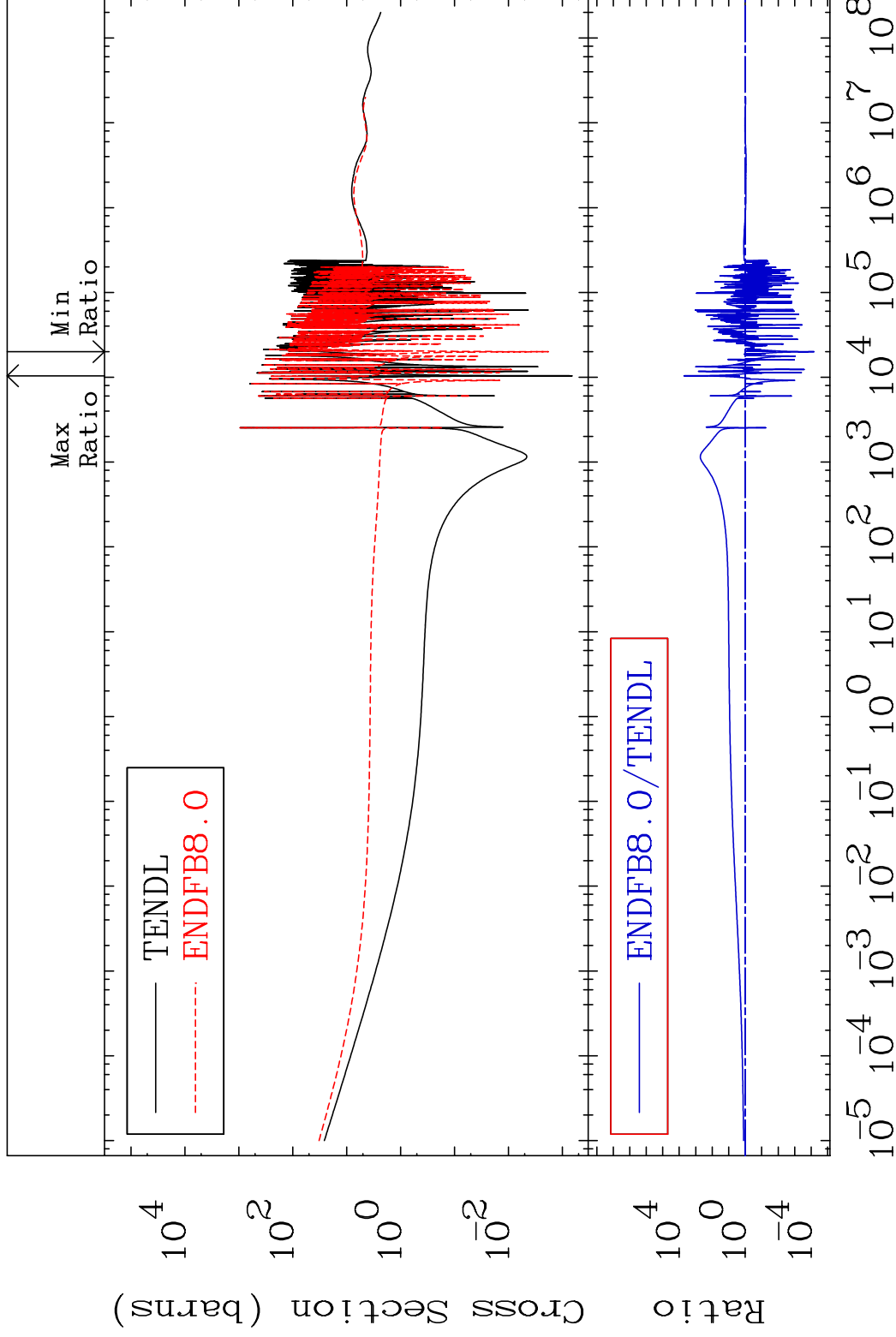
MAT 5837

Total

58-Ce-140

Cross Section

-99.99 To 9999. %



1

Incident Energy (eV)

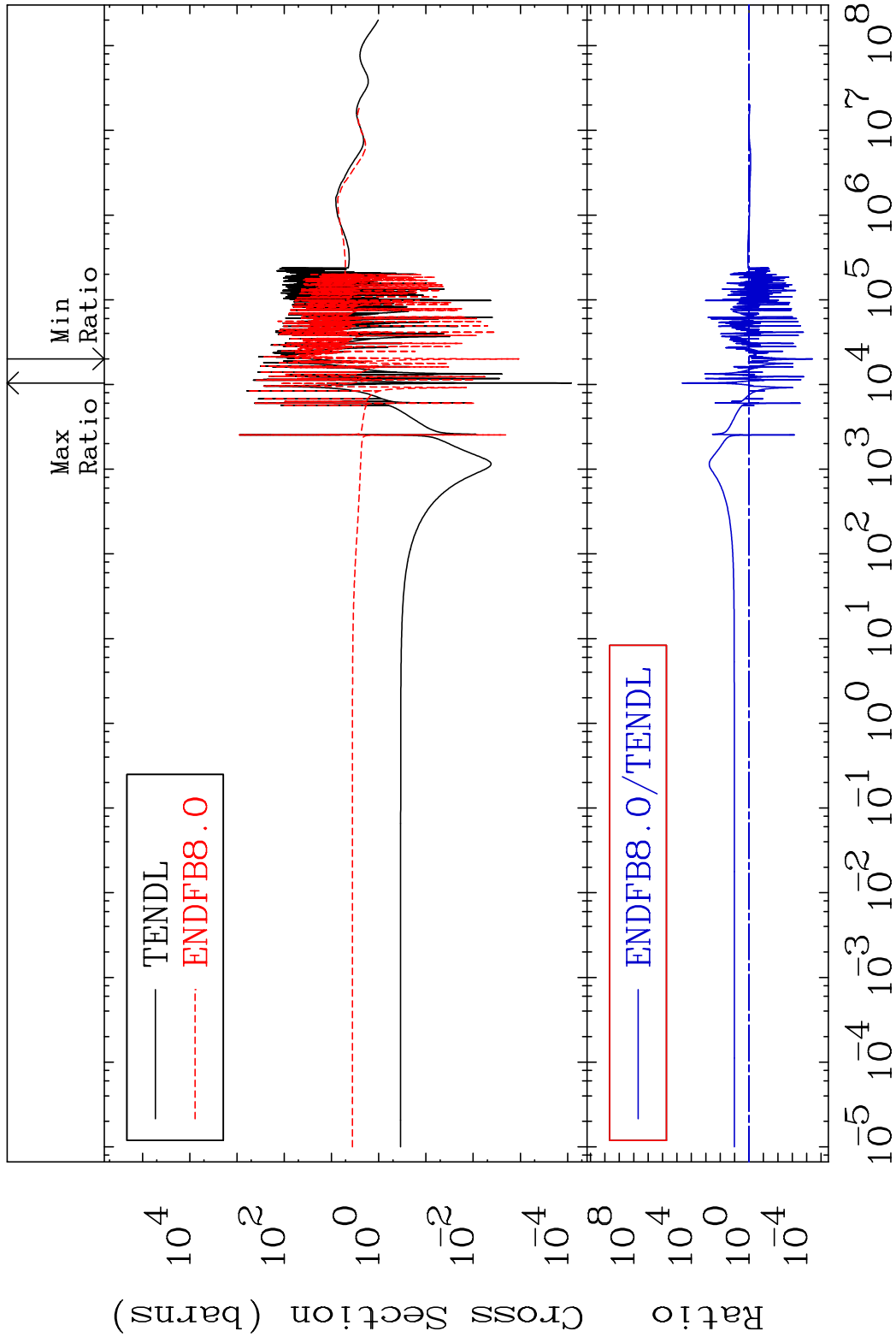
58-Ce-140

MAT 5837

Elastic

58-Ce-140

Cross Section -100.0 To 9999. %

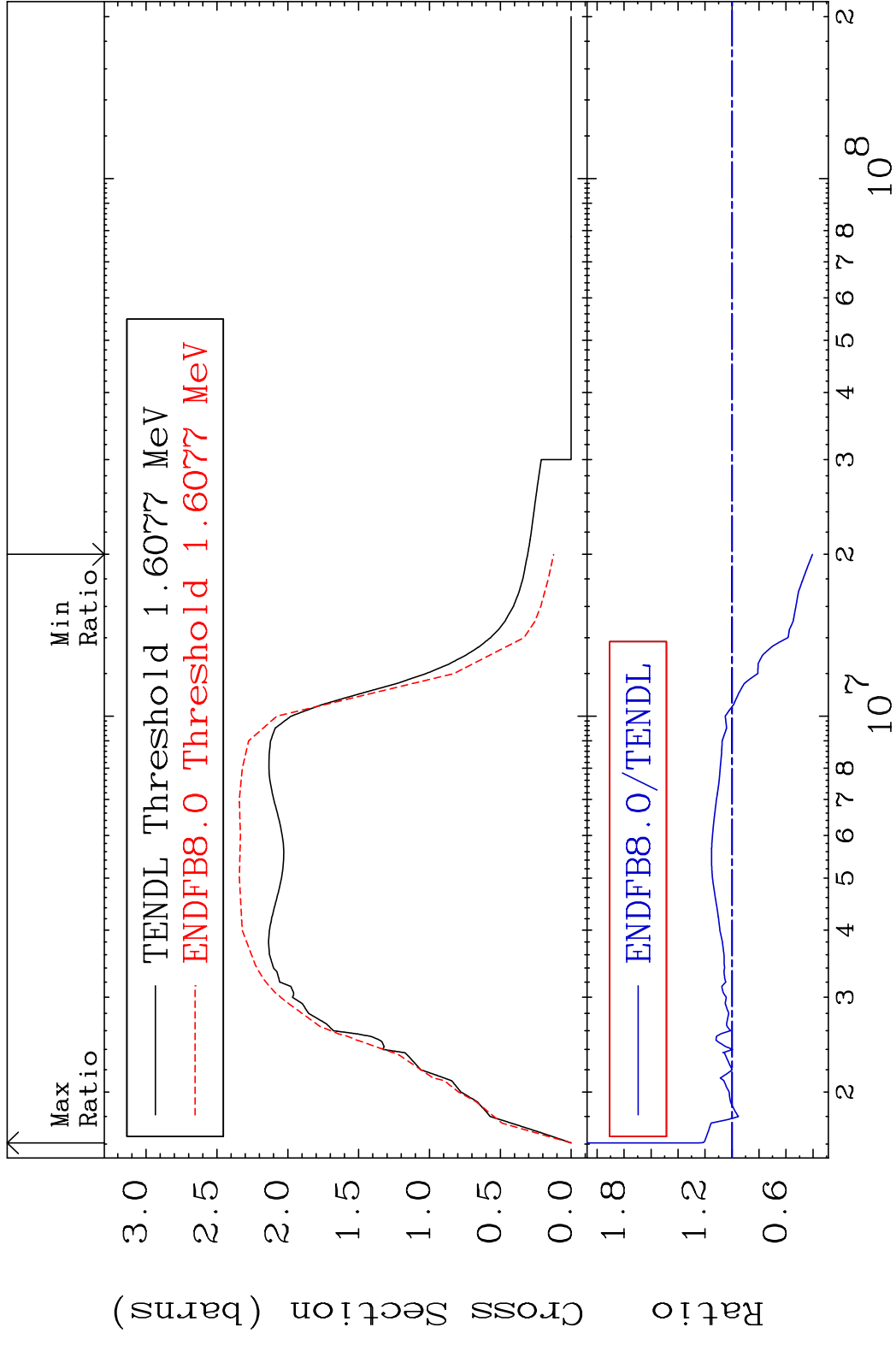


2

Incident Energy (eV)

58-Ce-140

MAT 5837 Inelastic 58-Ce-140
 Cross Section -59.65 To 36.83 %

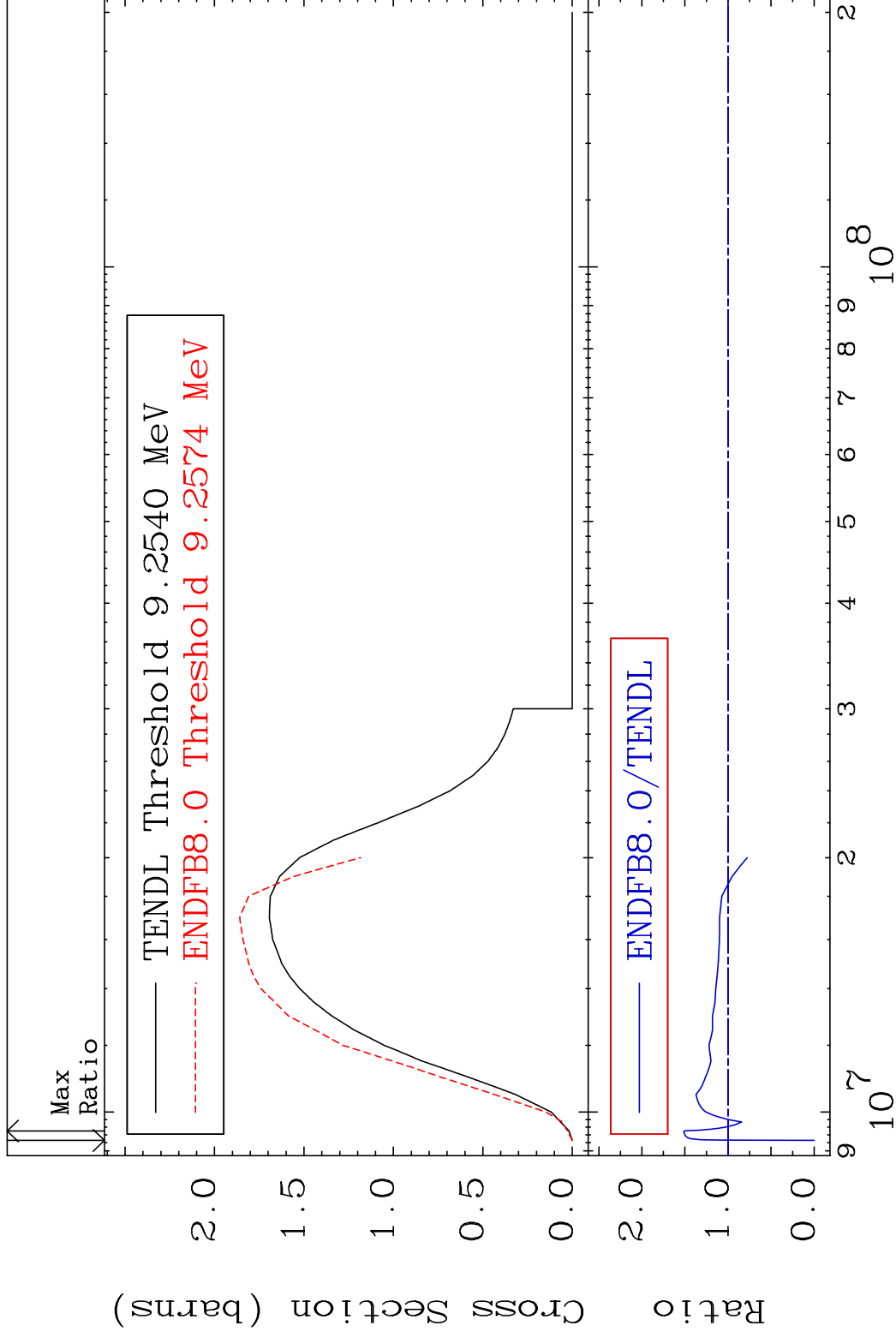


MAT 5837

(n,2n)

58-Ce-140

Cross Section -100.0 To 51.49 %



4

Incident Energy (eV)

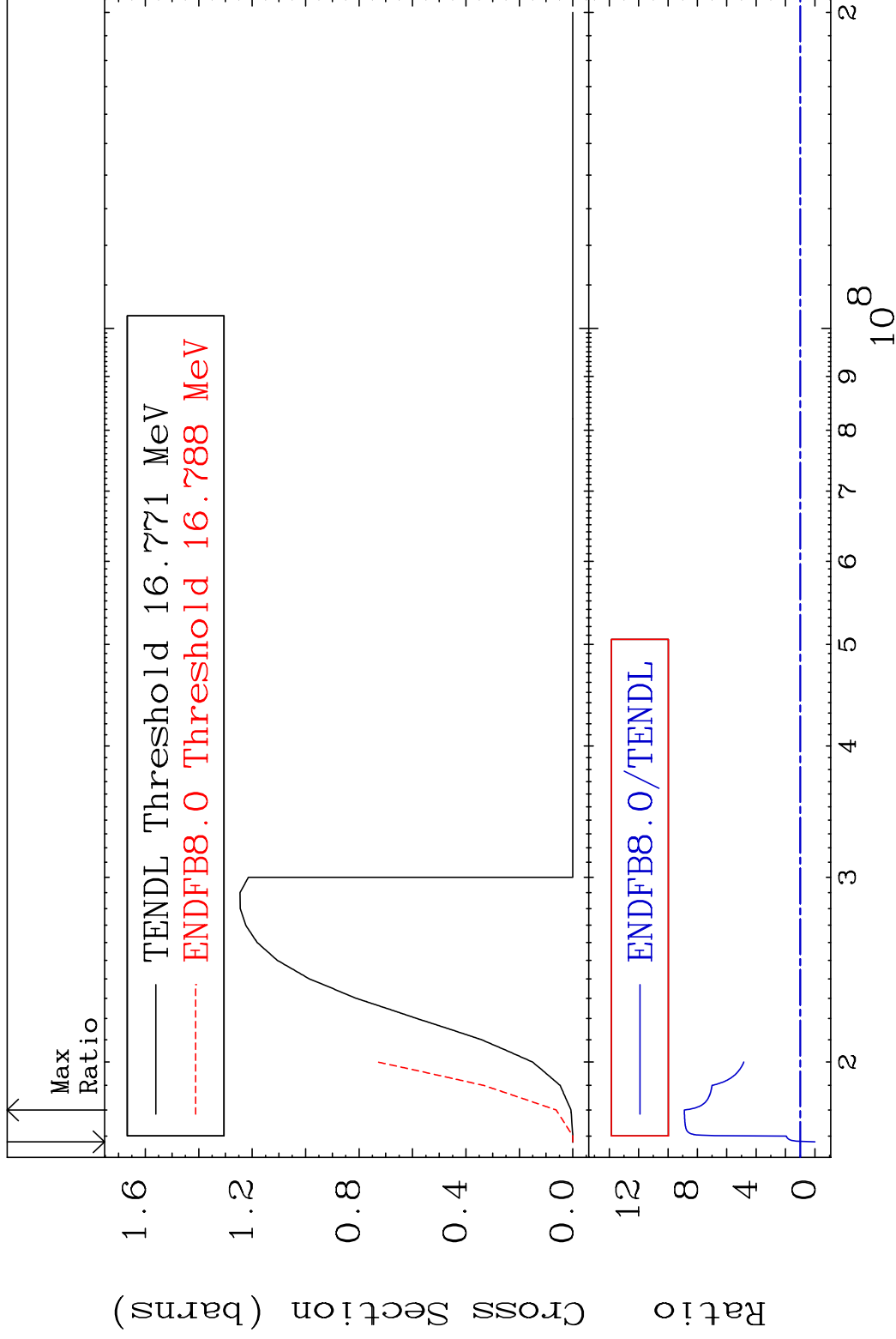
58-Ce-140

MAT 5837

(n,3n)

58-Ce-140

Cross Section -100.0 To 789.0 %

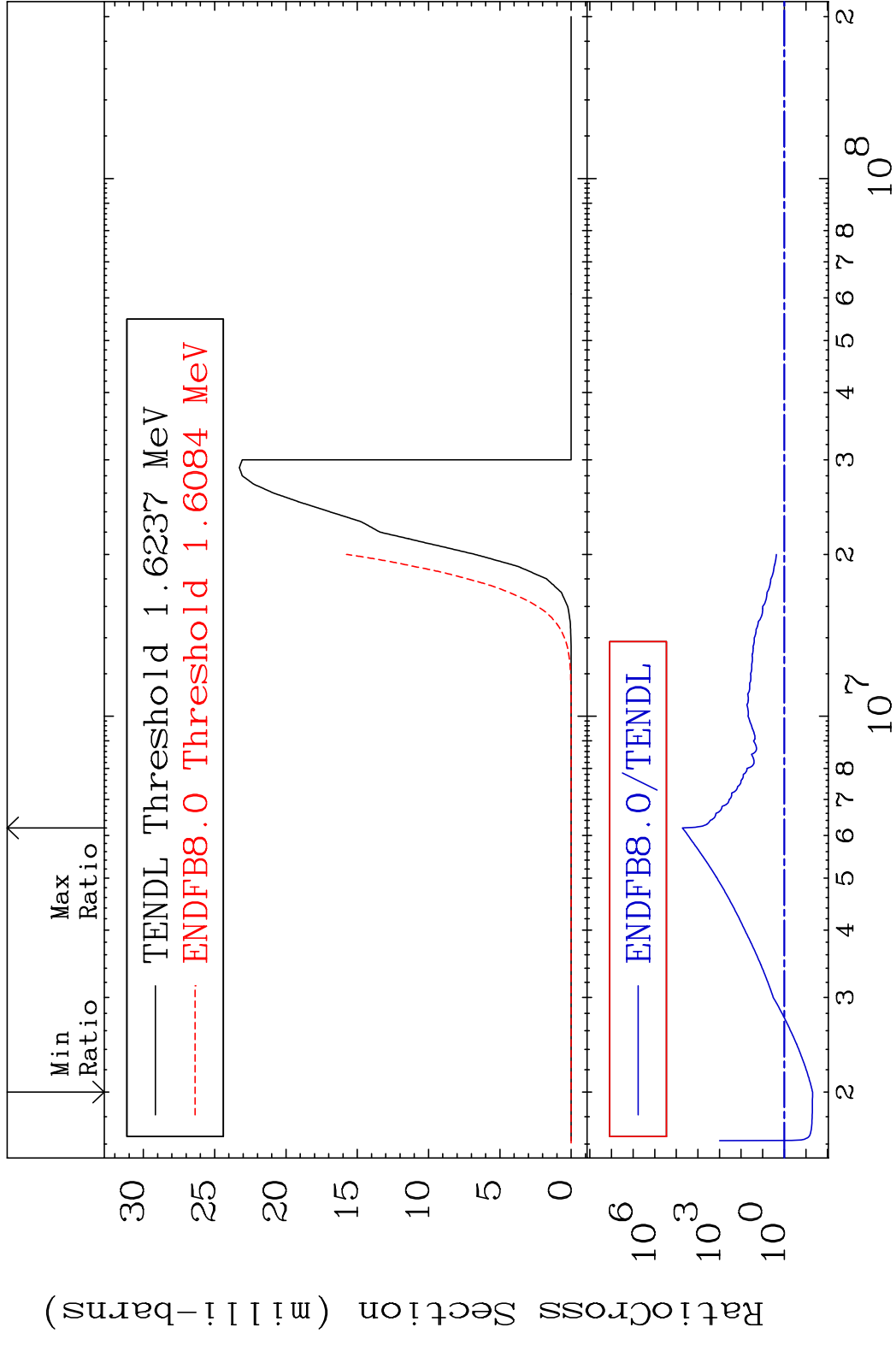


5

Incident Energy (eV)

58-Ce-140

MAT 5837 (n, n') α 58-Ce-140
 Cross Section -95.08 To 9999. %

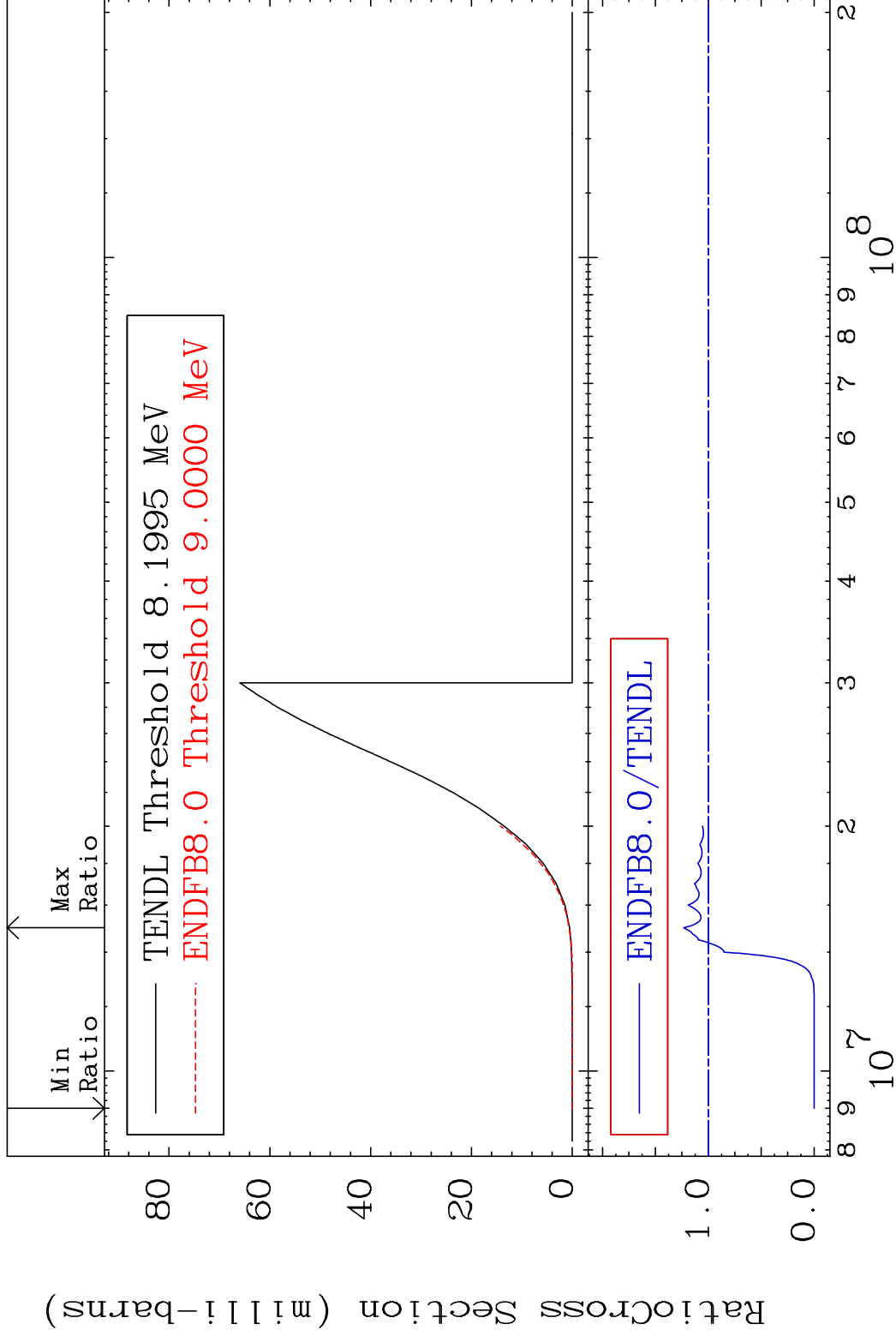


MAT 5837

(n, n') p

58-Ce-140

Cross Section -100.0 To 23.30 %



7

Incident Energy (eV)

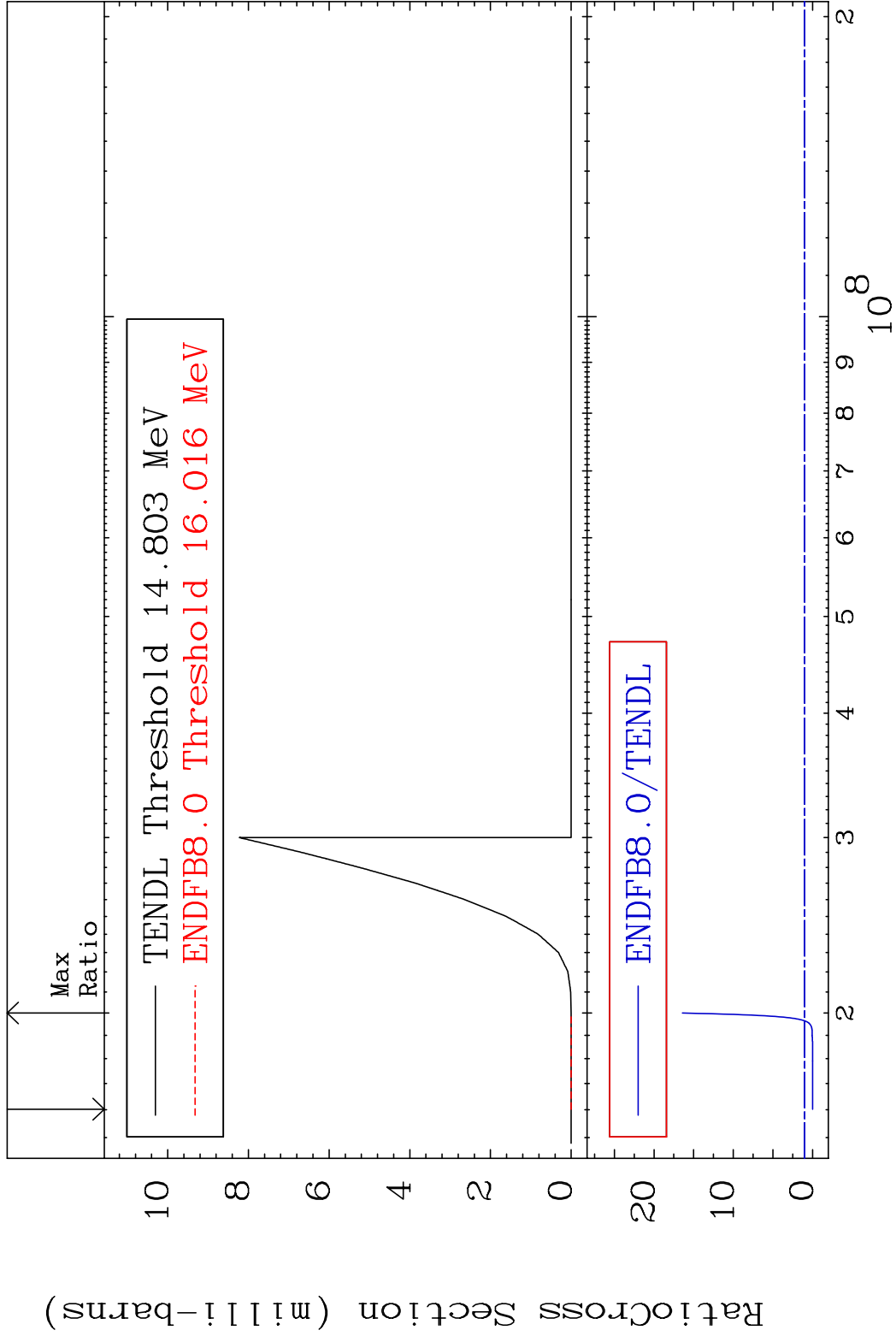
58-Ce-140

MAT 5837

(n, n') d

58-Ce-140

Cross Section -100.0 To 1542. %



8

Incident Energy (eV)

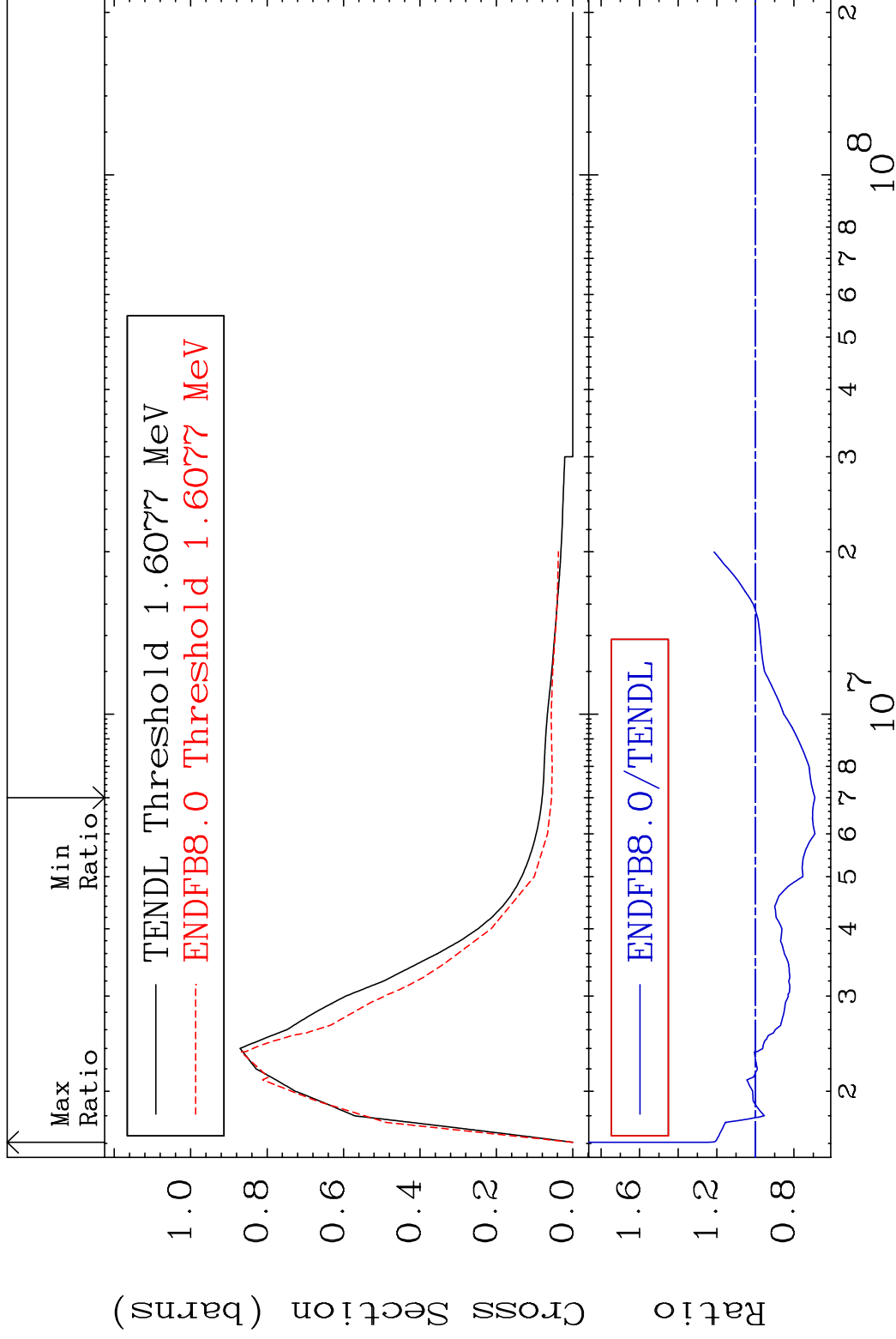
58-Ce-140

MAT 5837

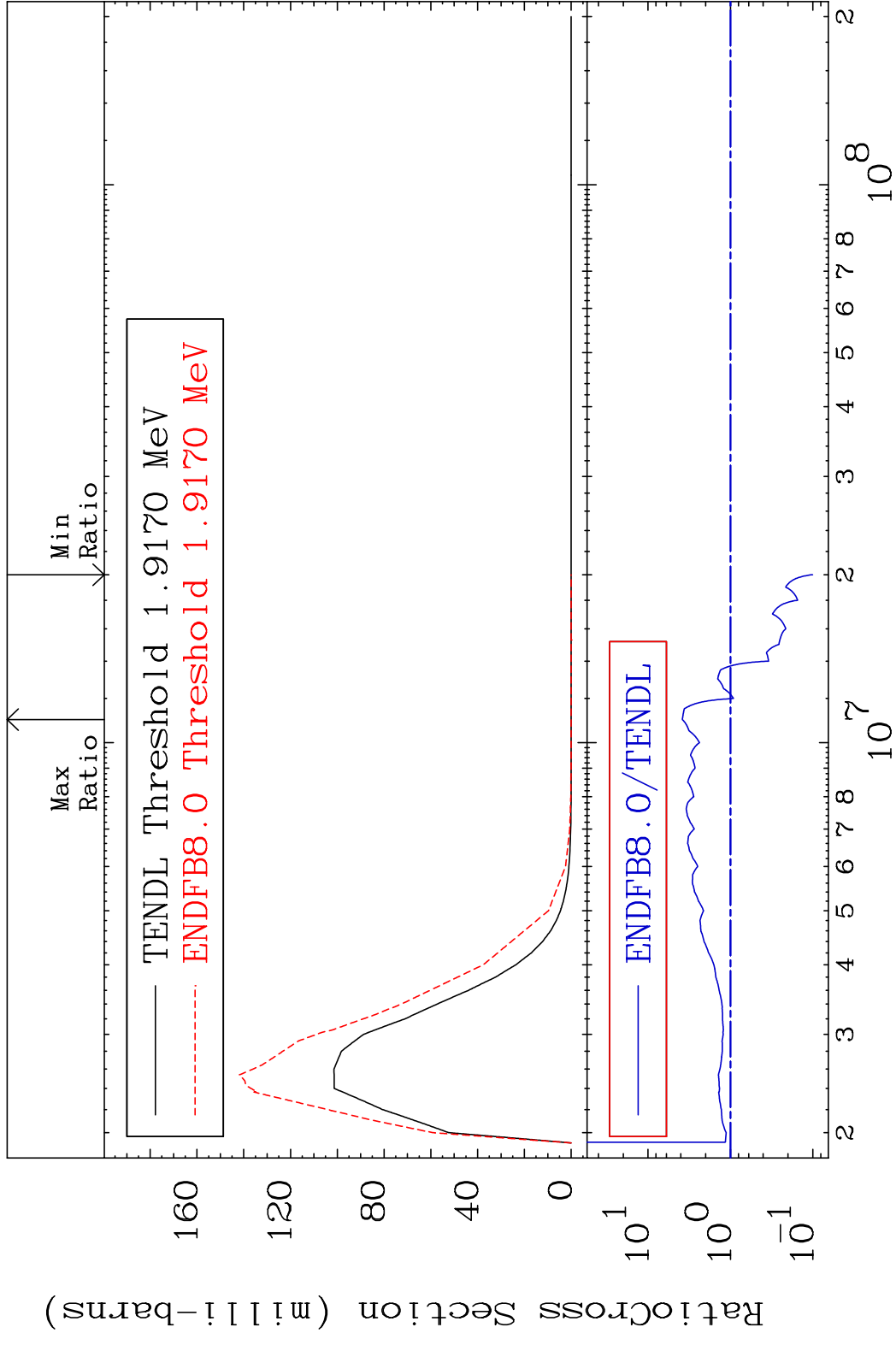
MT= 51 (n,n') Level

58-Ce-140

Cross Section -30.86 To 36.83 %

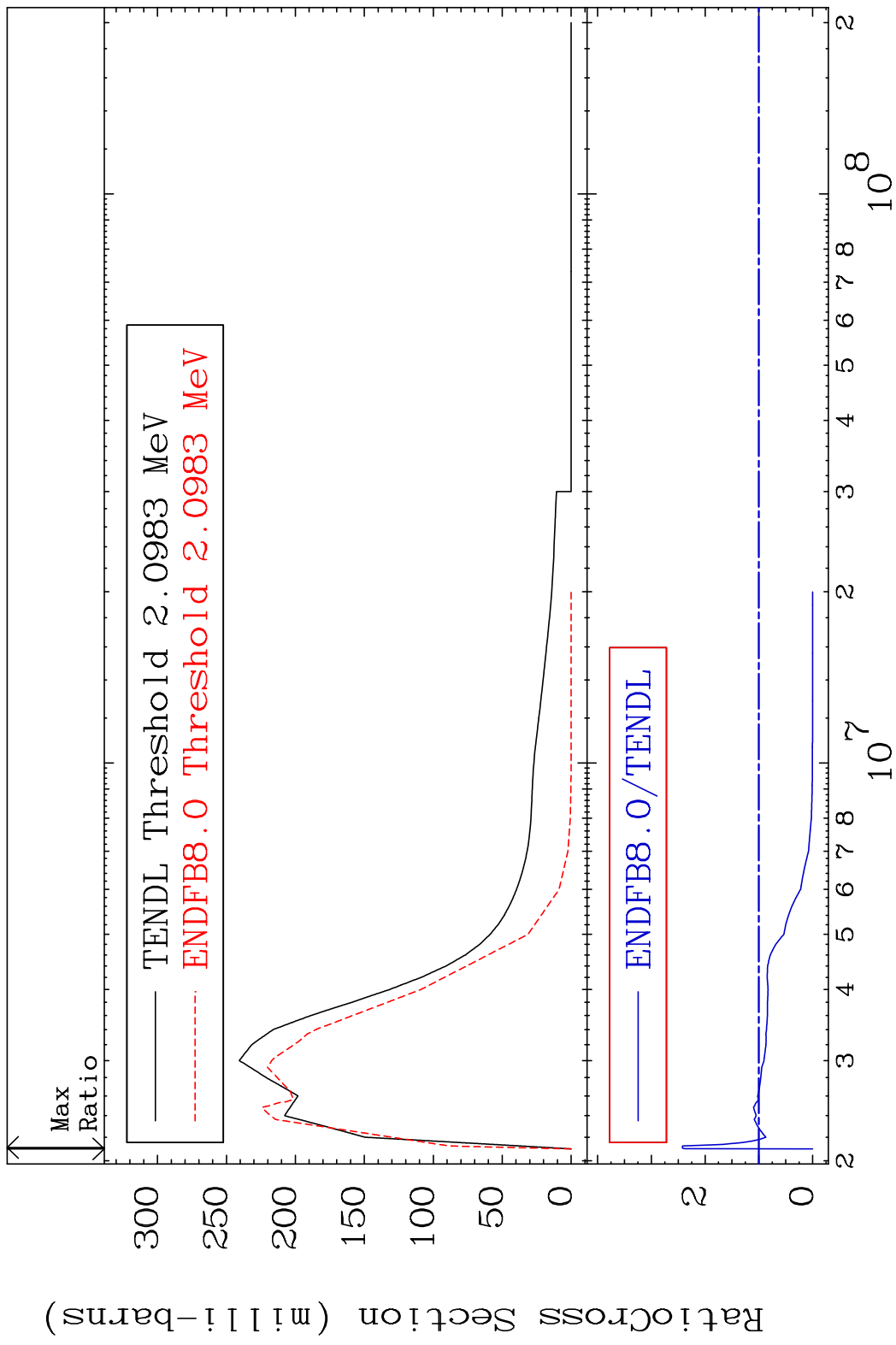


MAT 5837 MT= 52 (n, n') Level 58-Ce-140
 Cross Section -89.92 To 283.3 %

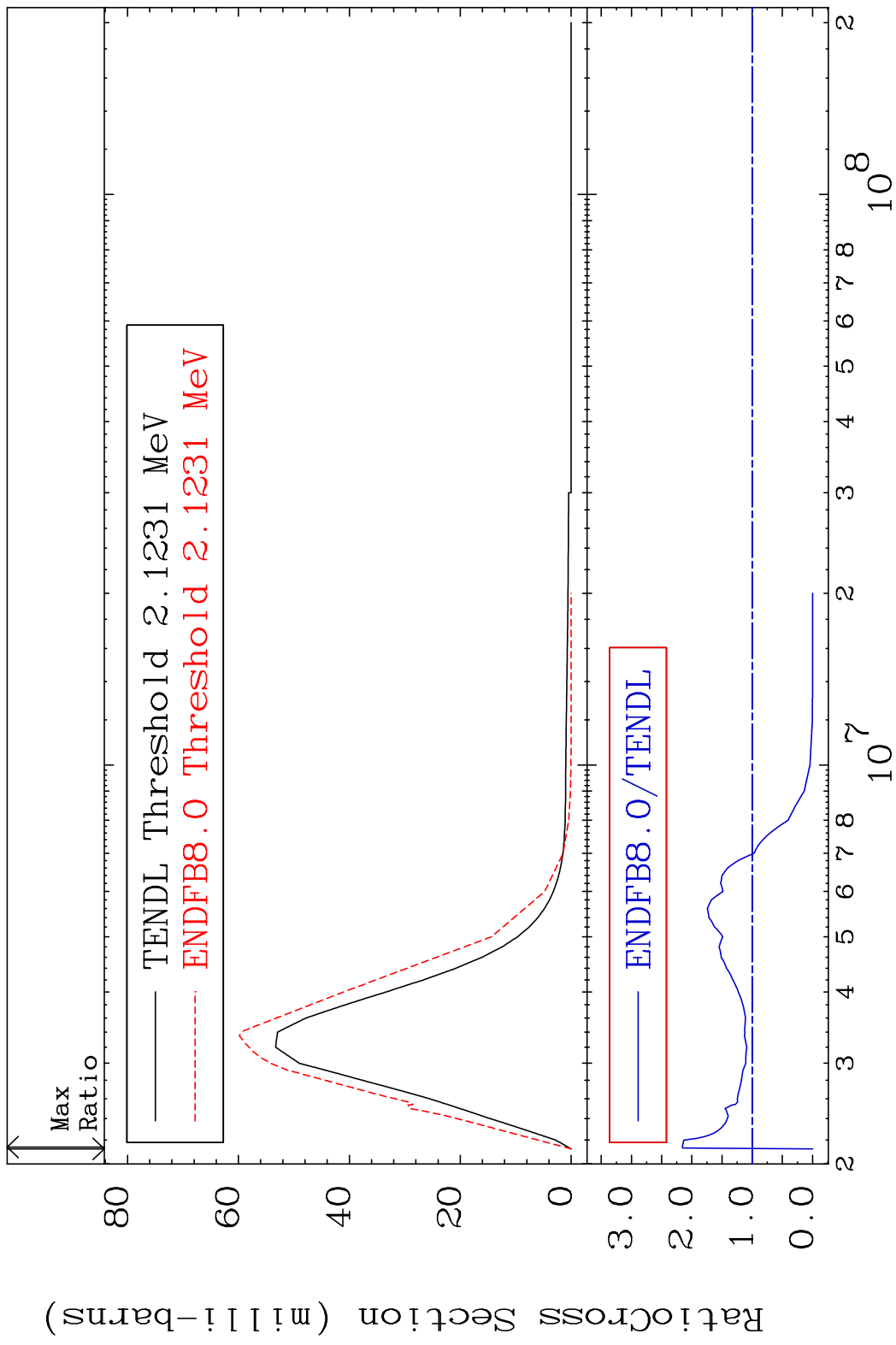


10 Incident Energy (eV) 58-Ce-140

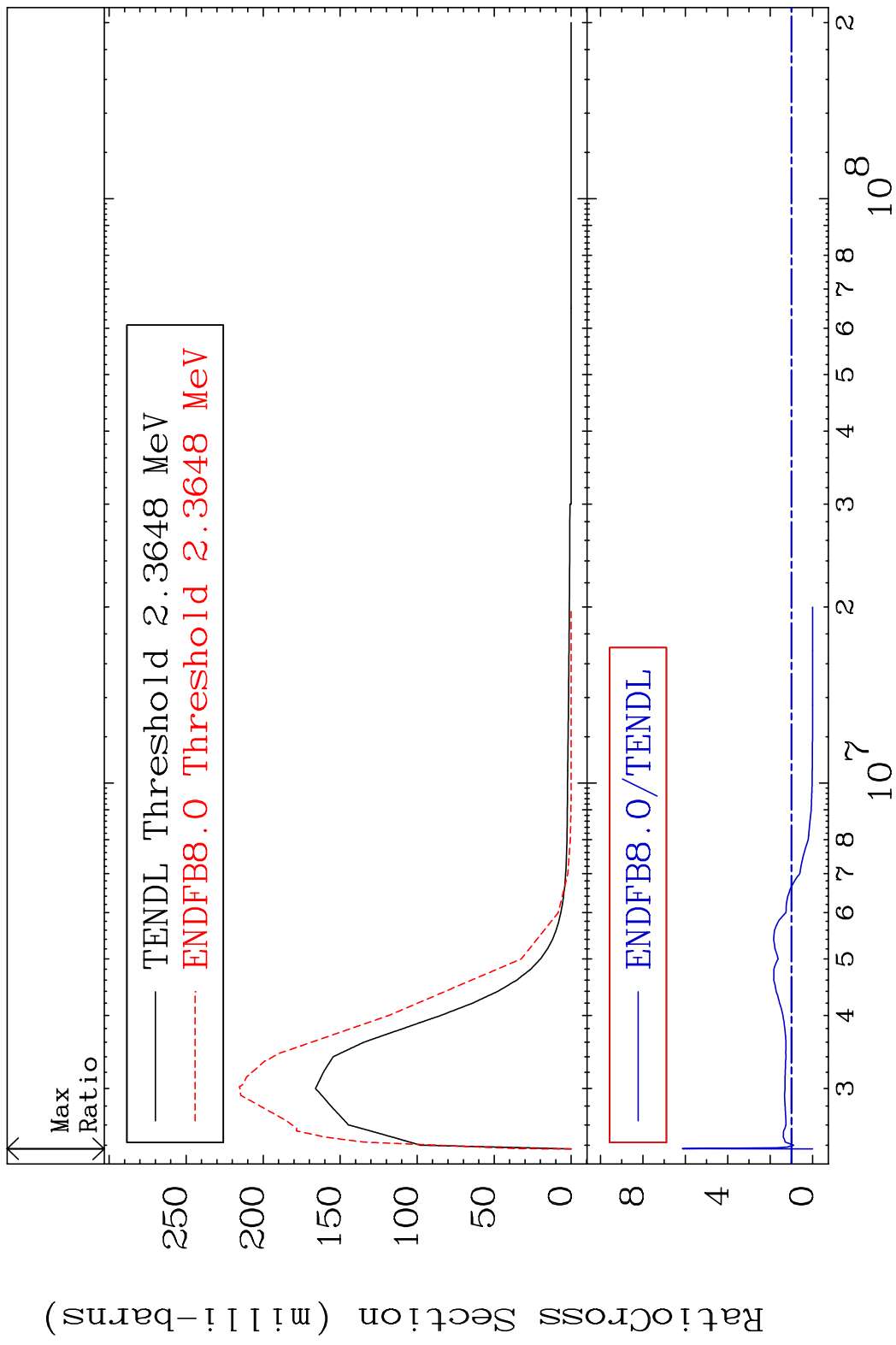
MAT 5837 MT= 53 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 142.3 %



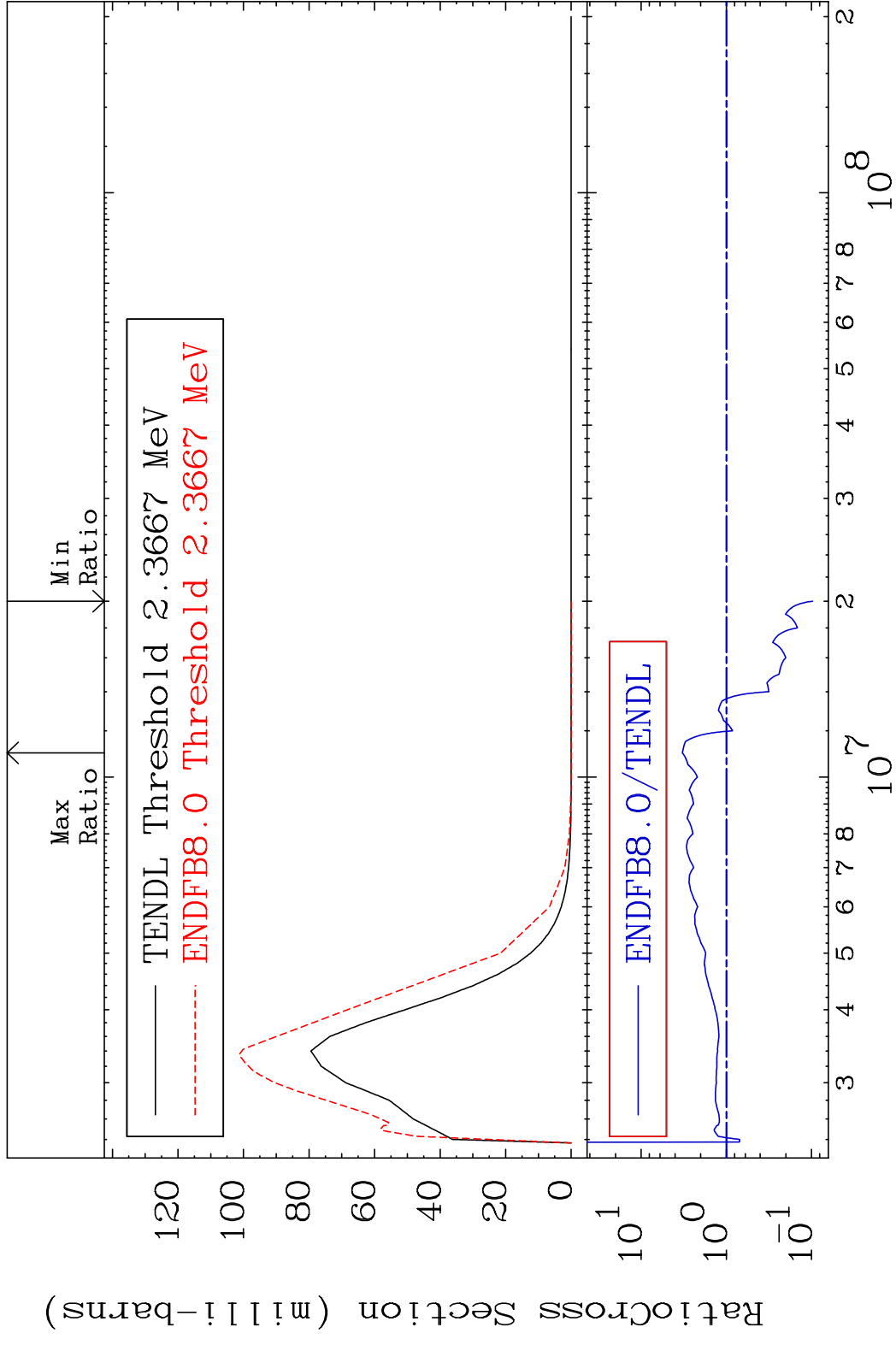
MAT 5837 MT= 54 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 115.7 %



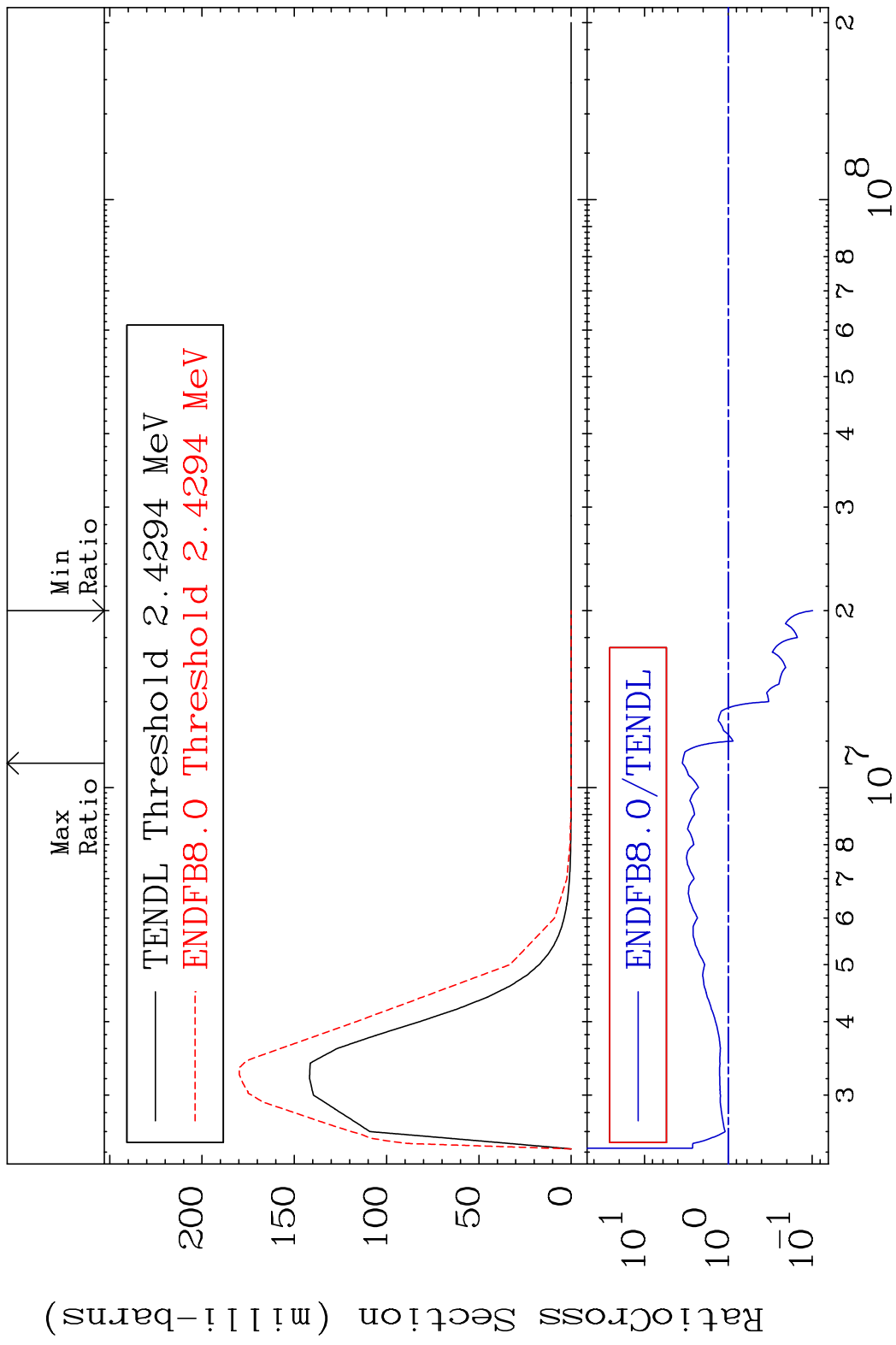
MAT 5837 MT= 55 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 514.0 %



MAT 5837 MT= 56 (n, n') Level 58-Ce-140
 Cross Section -90.28 To 228.5 %

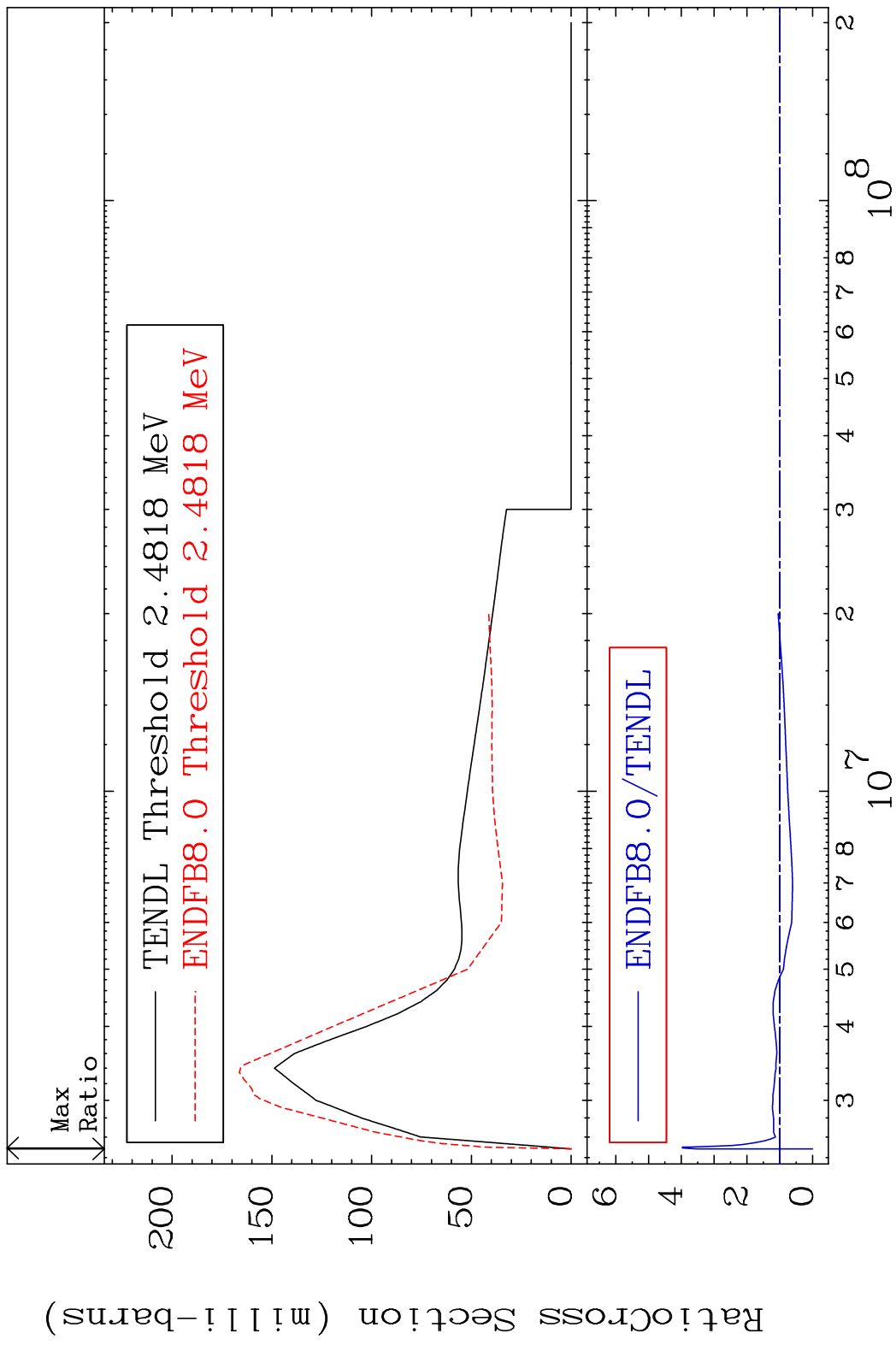


MAT 5837 MT= 57 (n, n') Level 58-Ce-140
 Cross Section -90.13 To 253.1 %

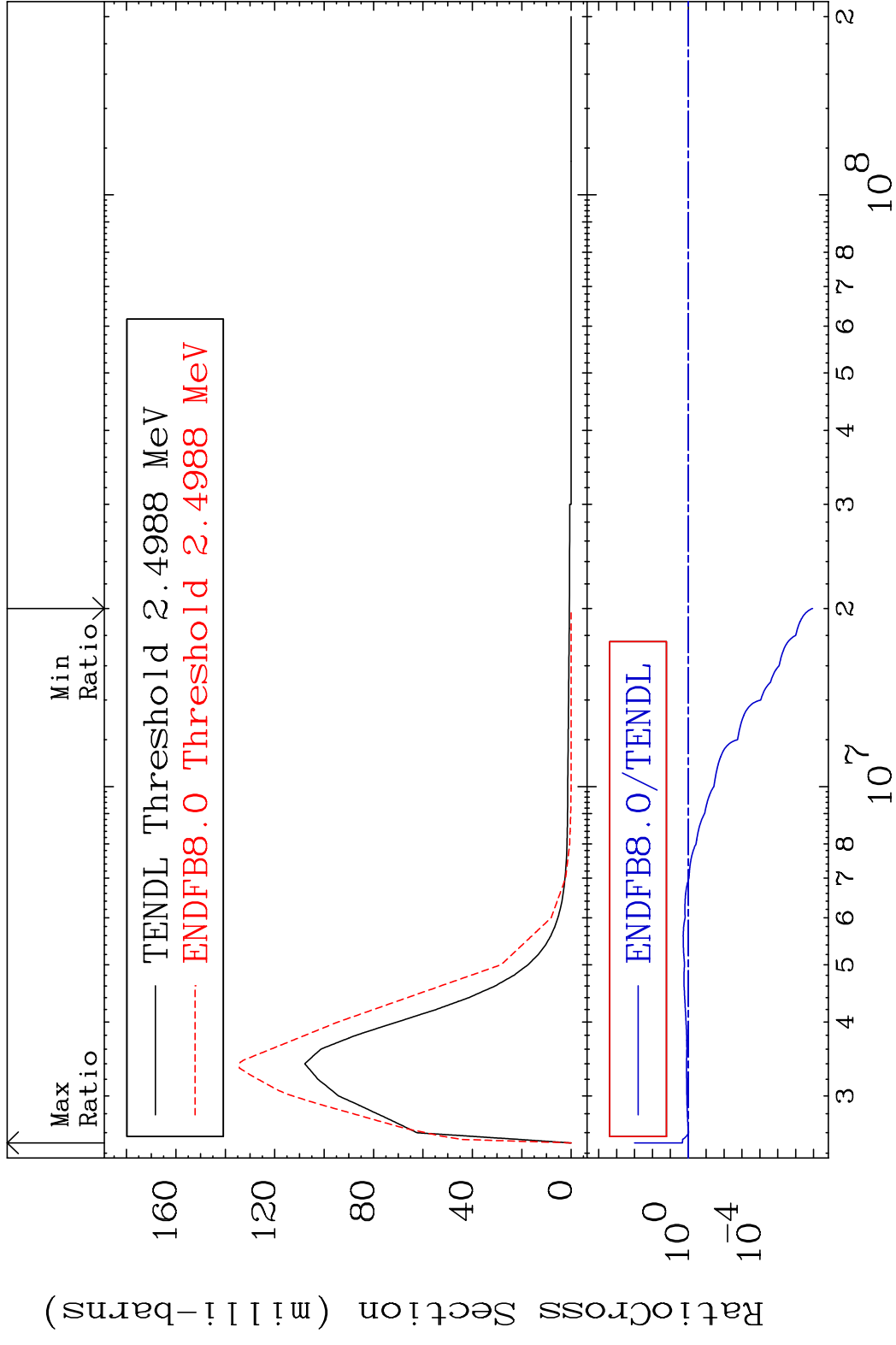


15 Incident Energy (eV) 58-Ce-140

MAT 5837 MT= 58 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 296.9 %

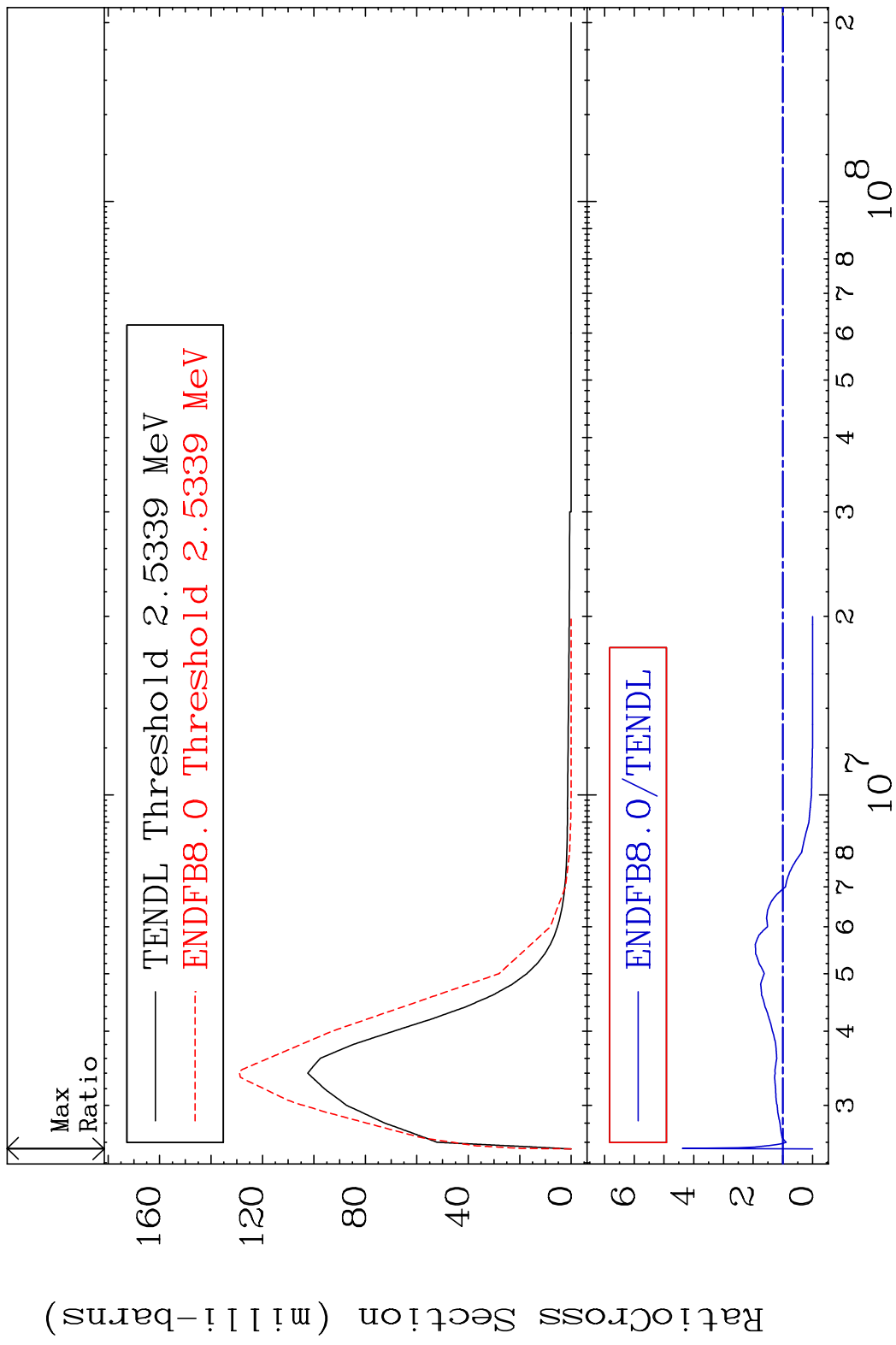


MAT 5837 MT= 59 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 114.2 %



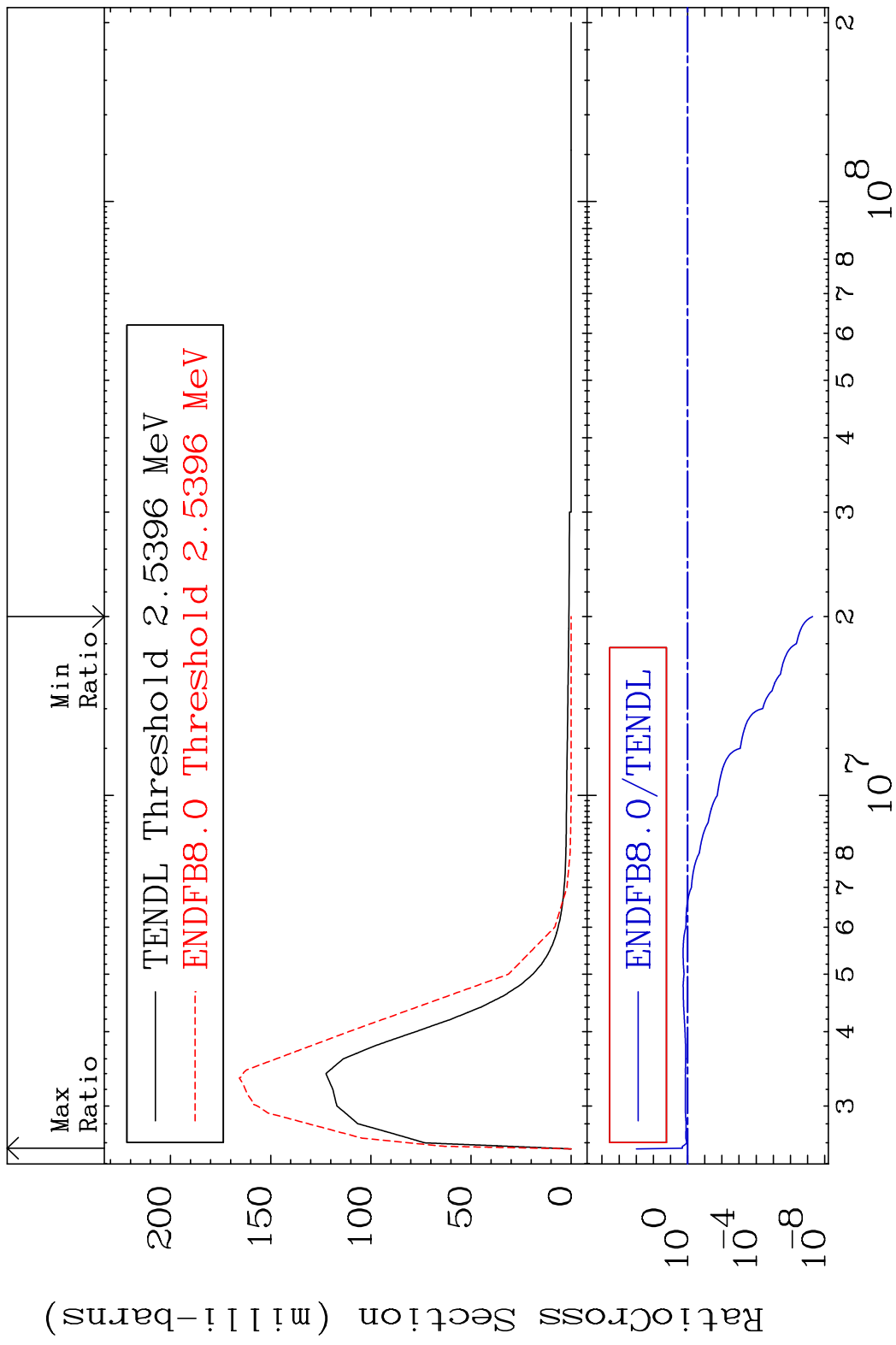
17 Incident Energy (eV) 58-Ce-140

MAT 5837 MT= 60 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 338.2 %



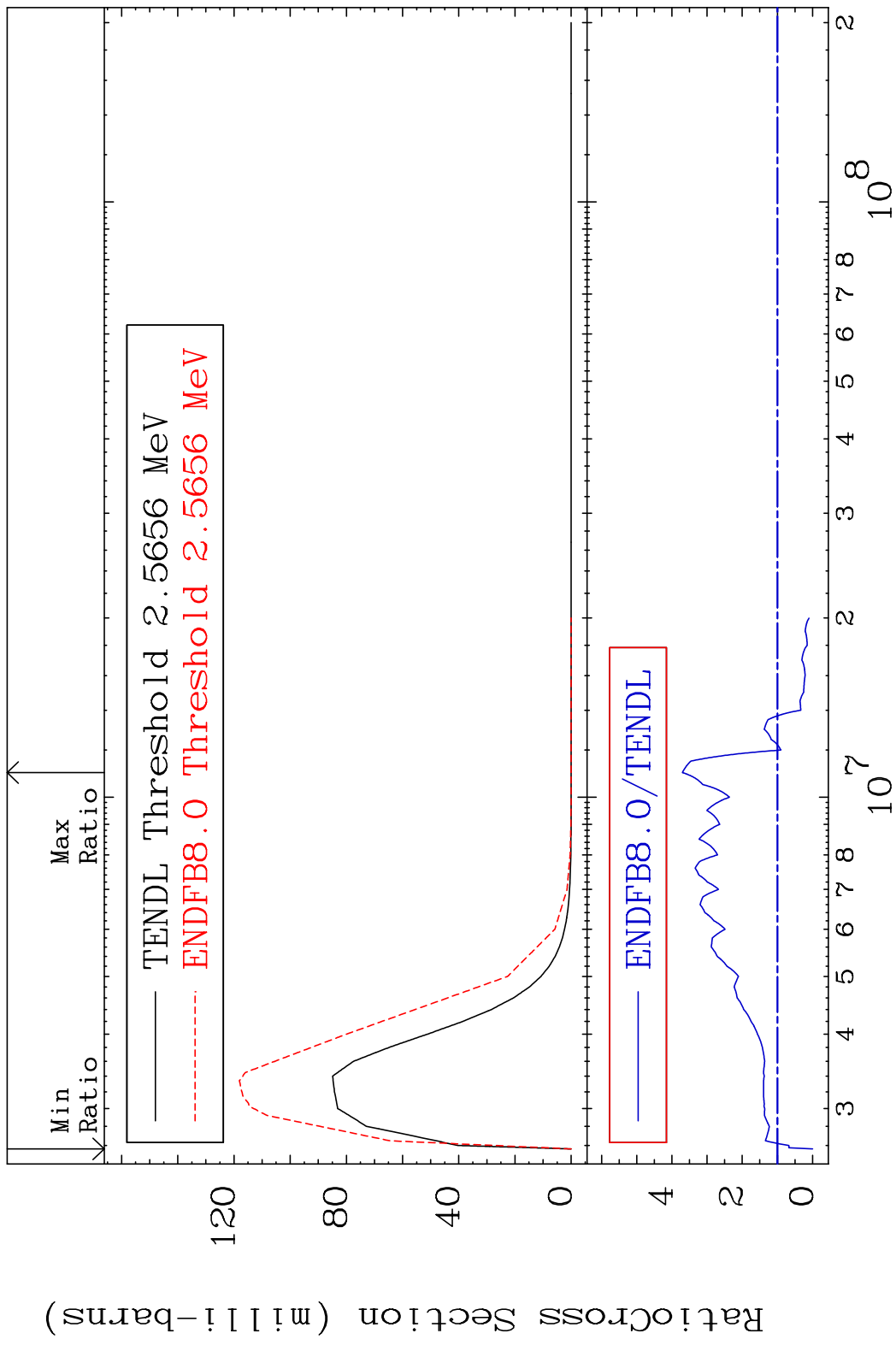
18 58-Ce-140

MAT 5837 MT= 61 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 103.5 %



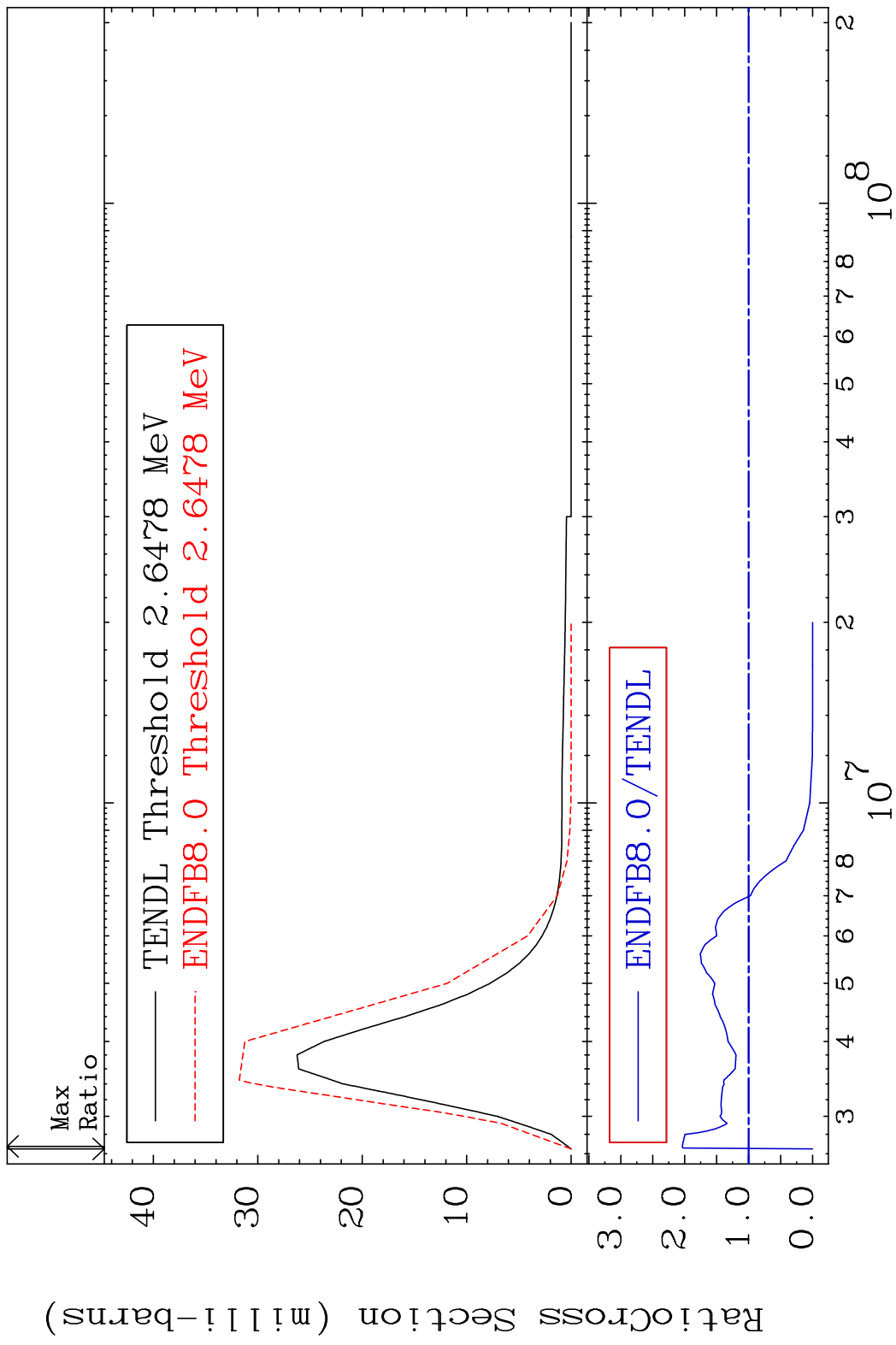
19 Incident Energy (eV) 58-Ce-140

MAT 5837 MT= 62 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 270.3 %

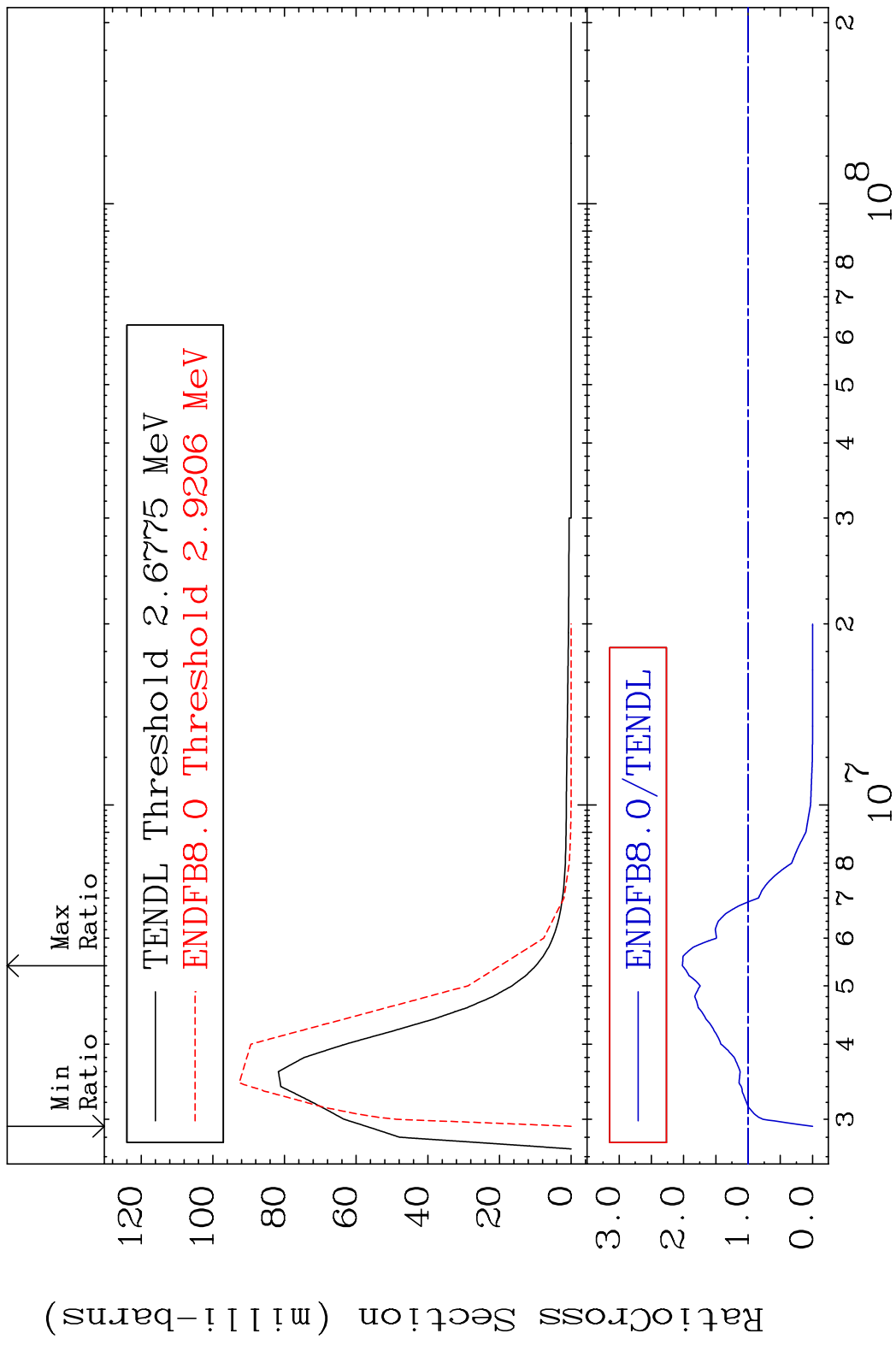


20 58-Ce-140

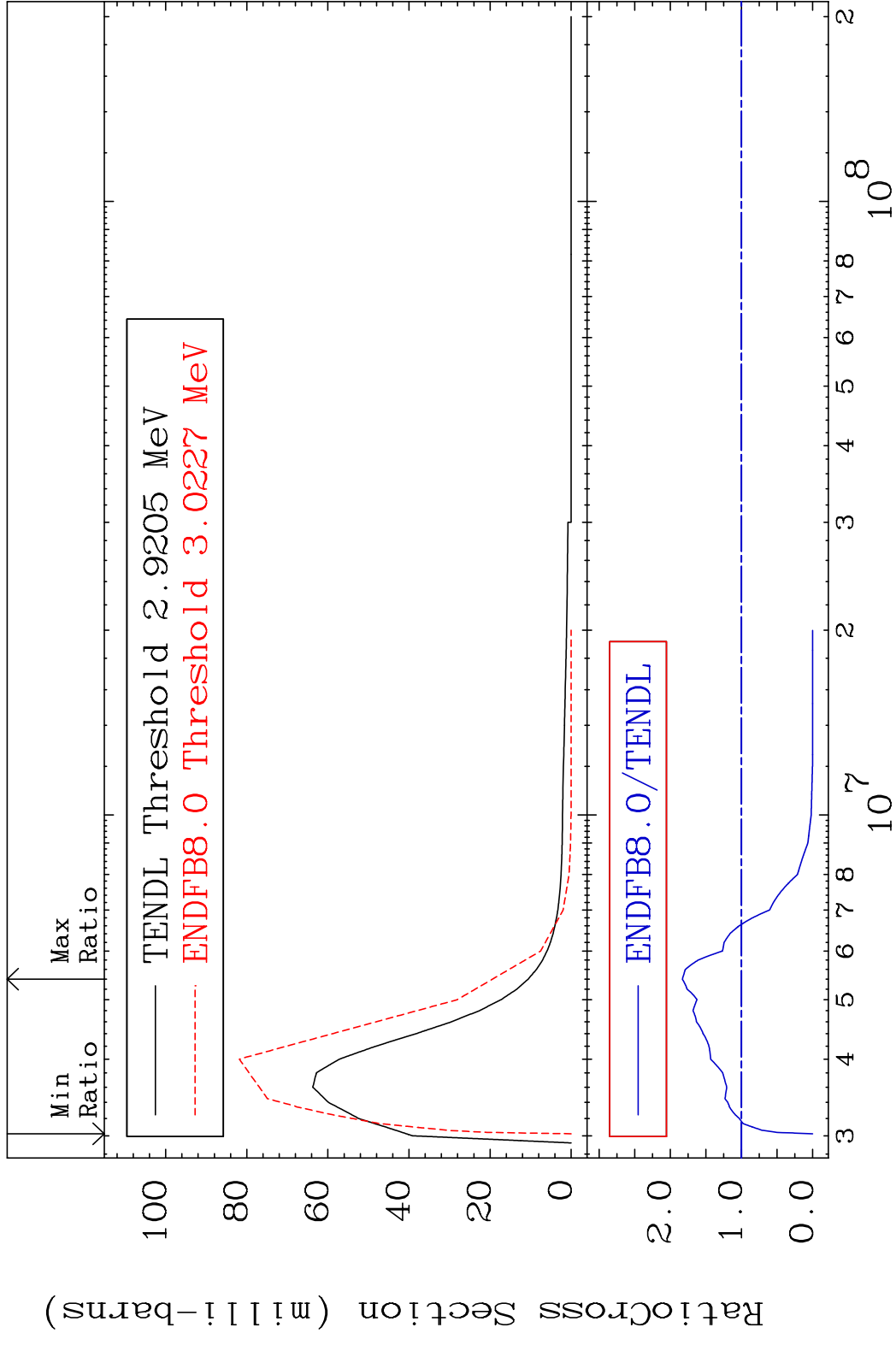
MAT 5837 MT= 63 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 103.7 %



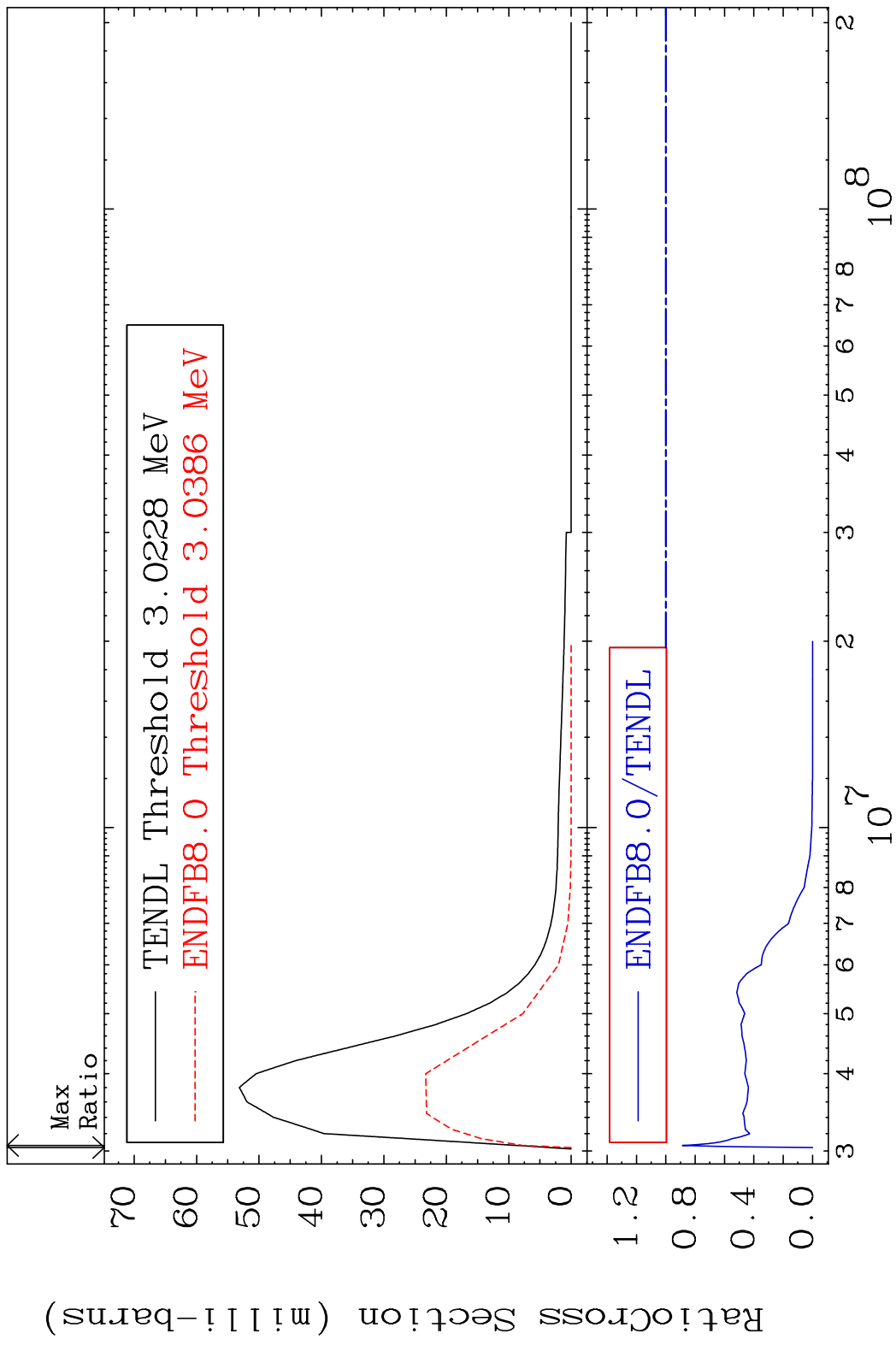
MAT 5837 MT= 64 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 101.9 %



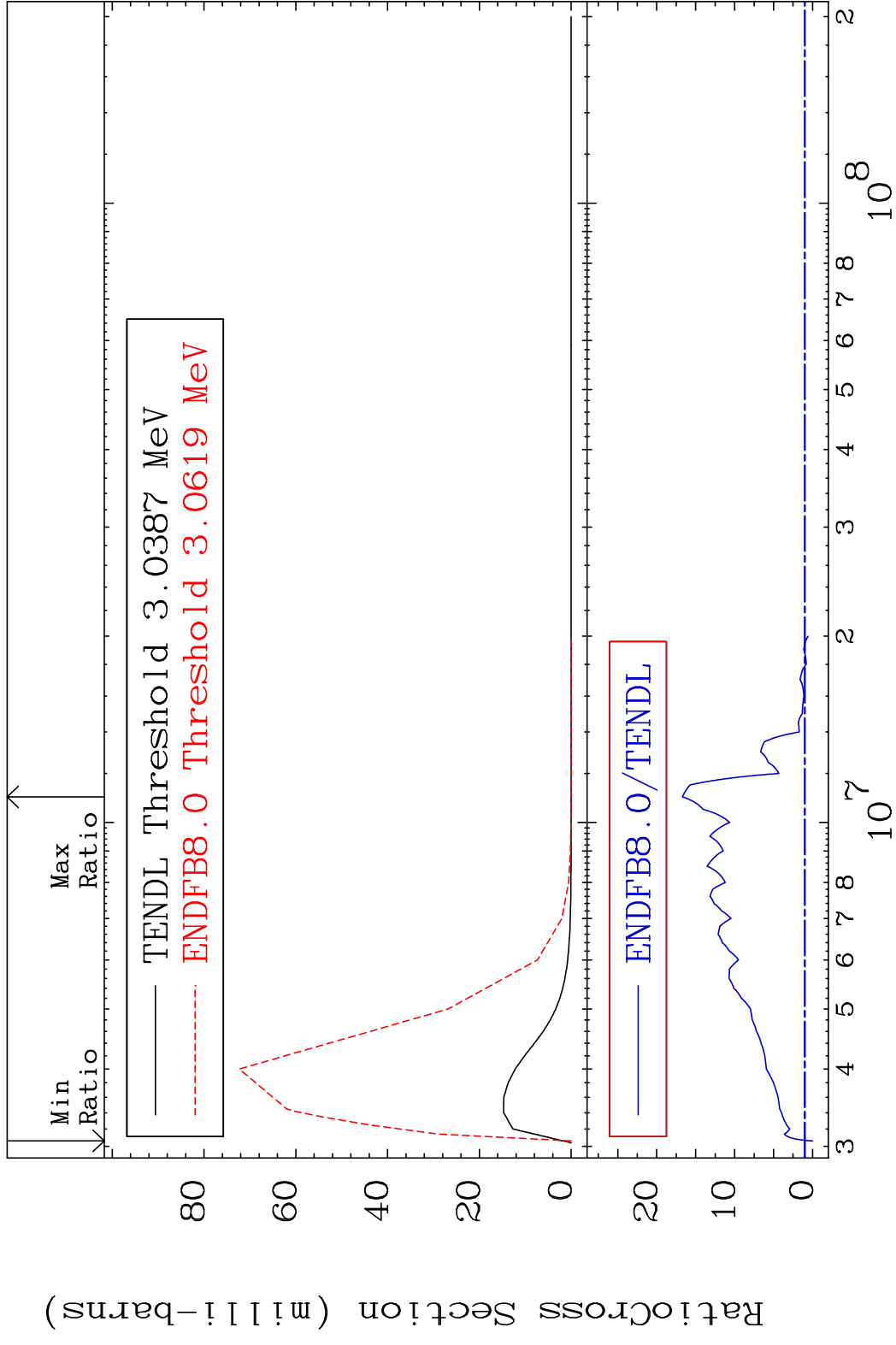
MAT 5837 MT= 65 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 83.12 %



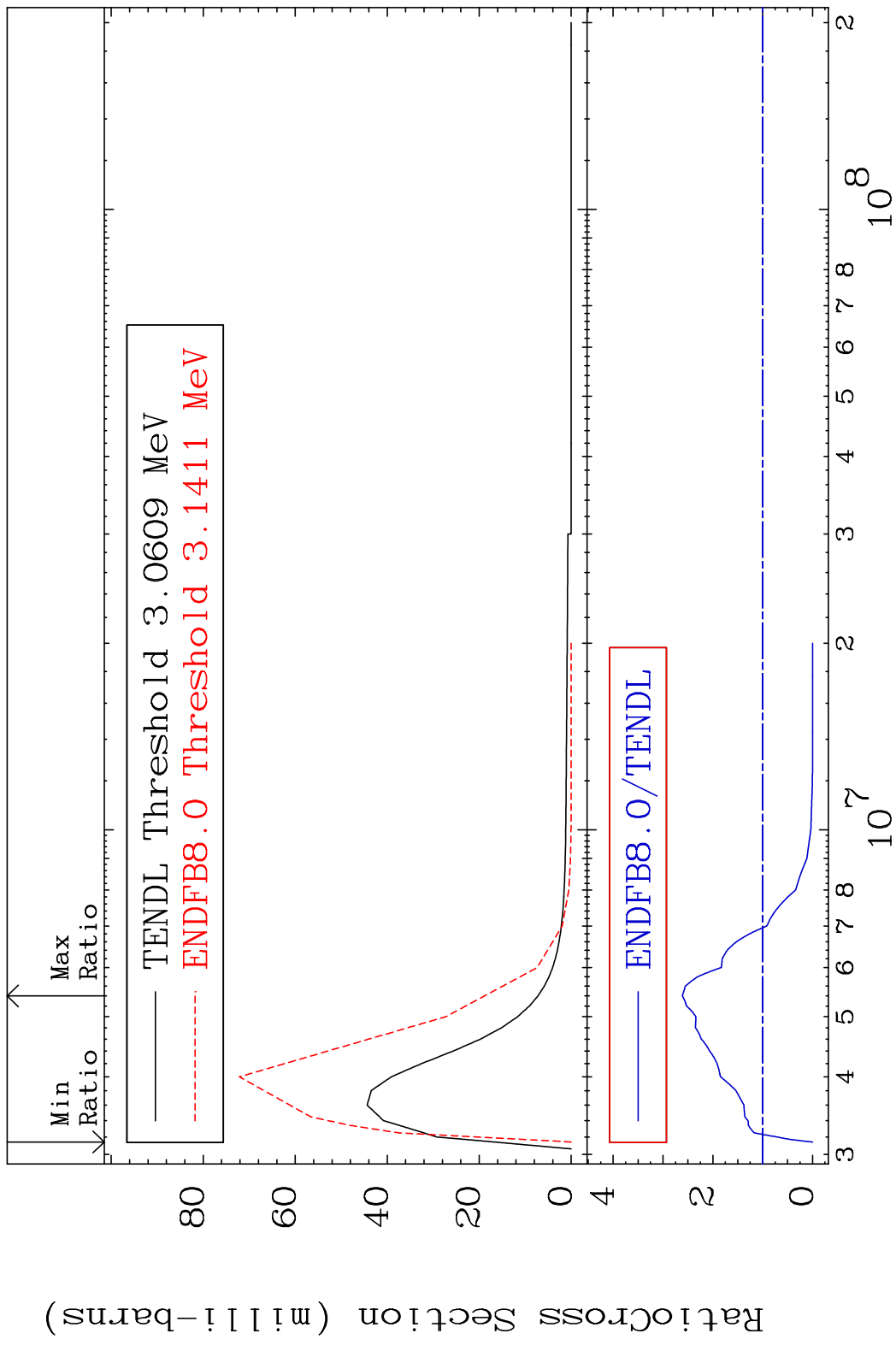
MAT 5837 MT= 66 (n,n') Level 58-Ce-140
 Cross Section -100.0 To -11.27%



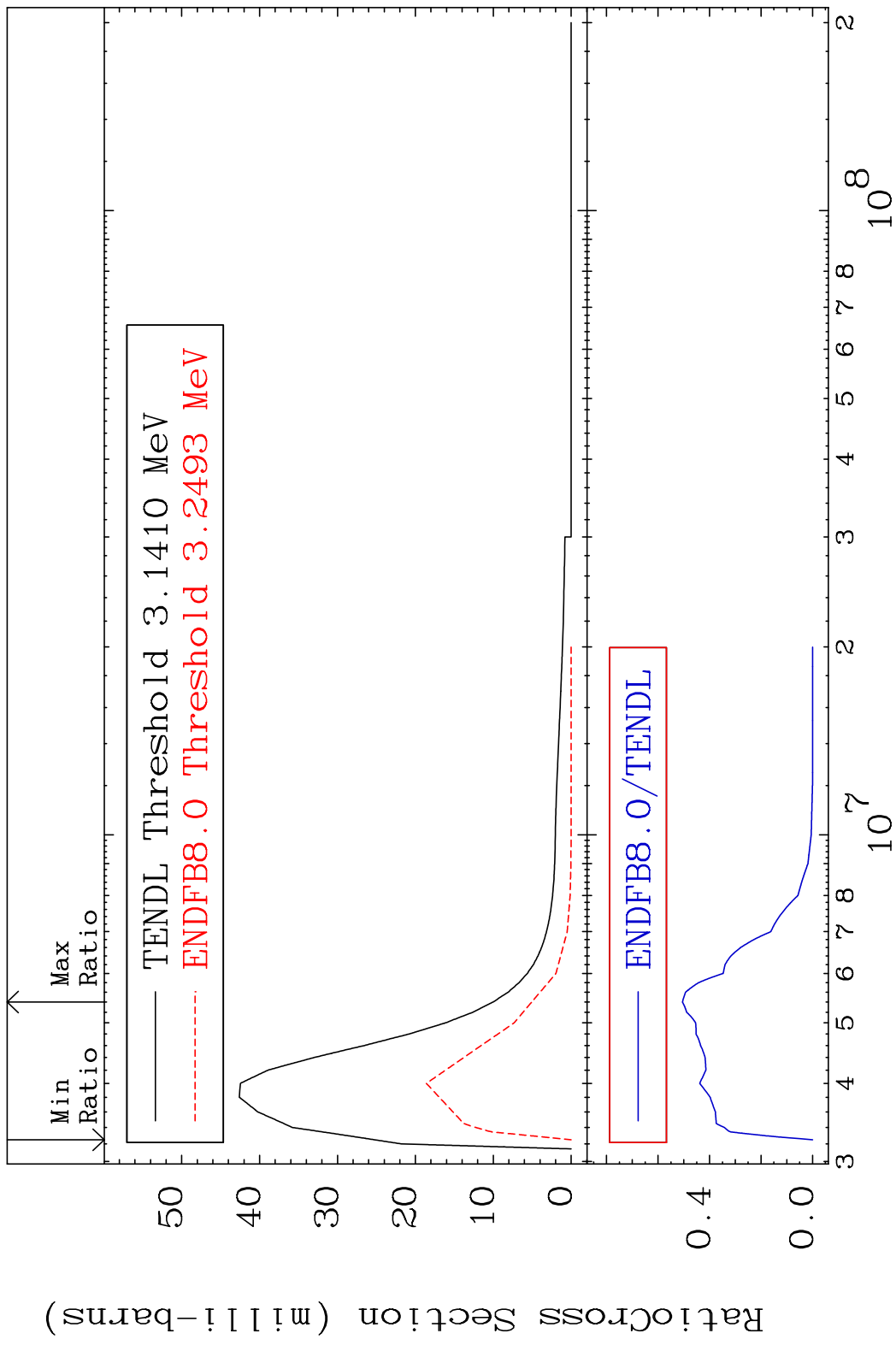
MAT 5837 MT= 67 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 1571. %



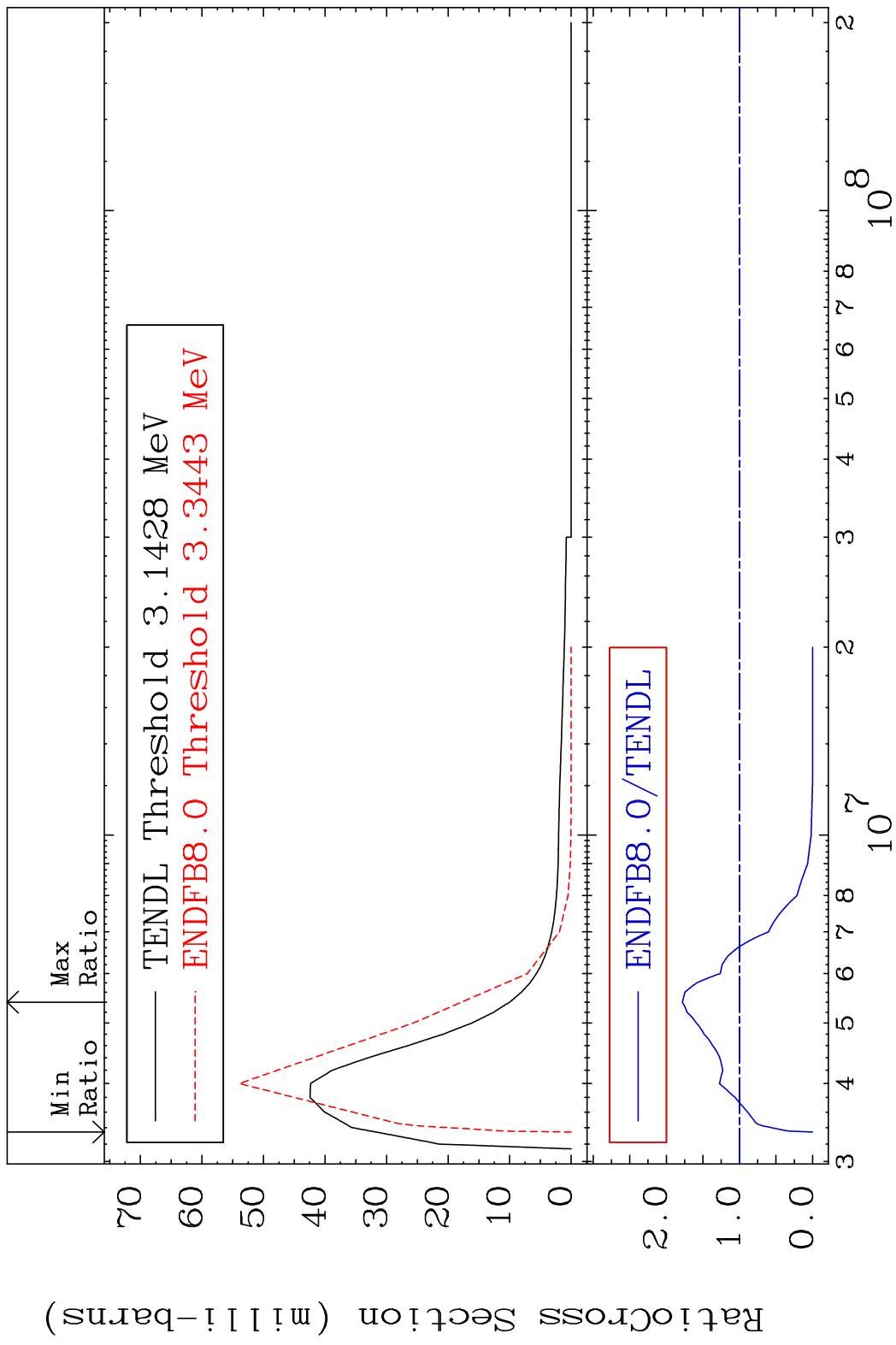
MAT 5837 MT= 68 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 161.1 %



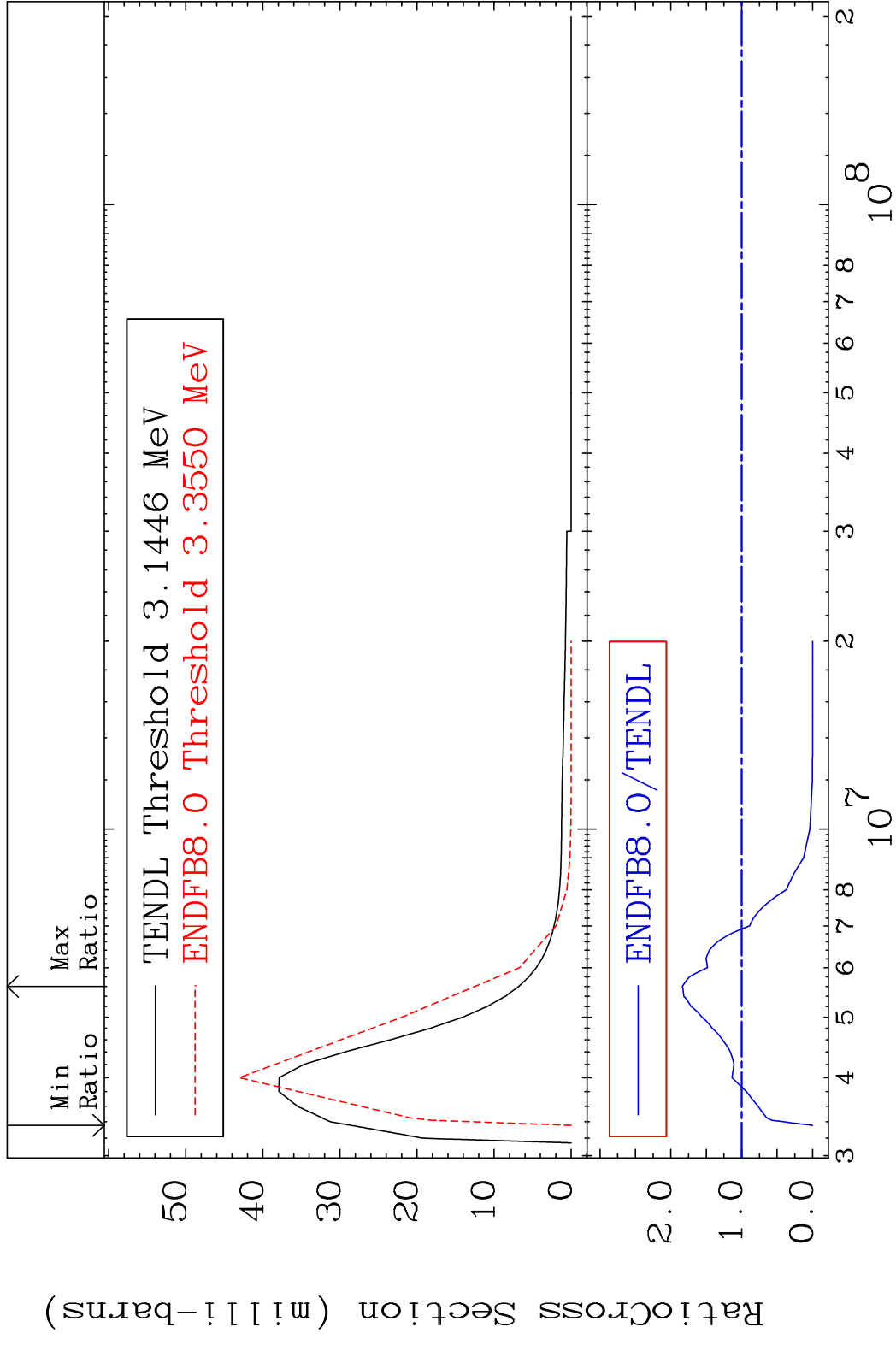
MAT 5837 MT= 69 (n,n') Level 58-Ce-140
 Cross Section -100.0 To -49.45%



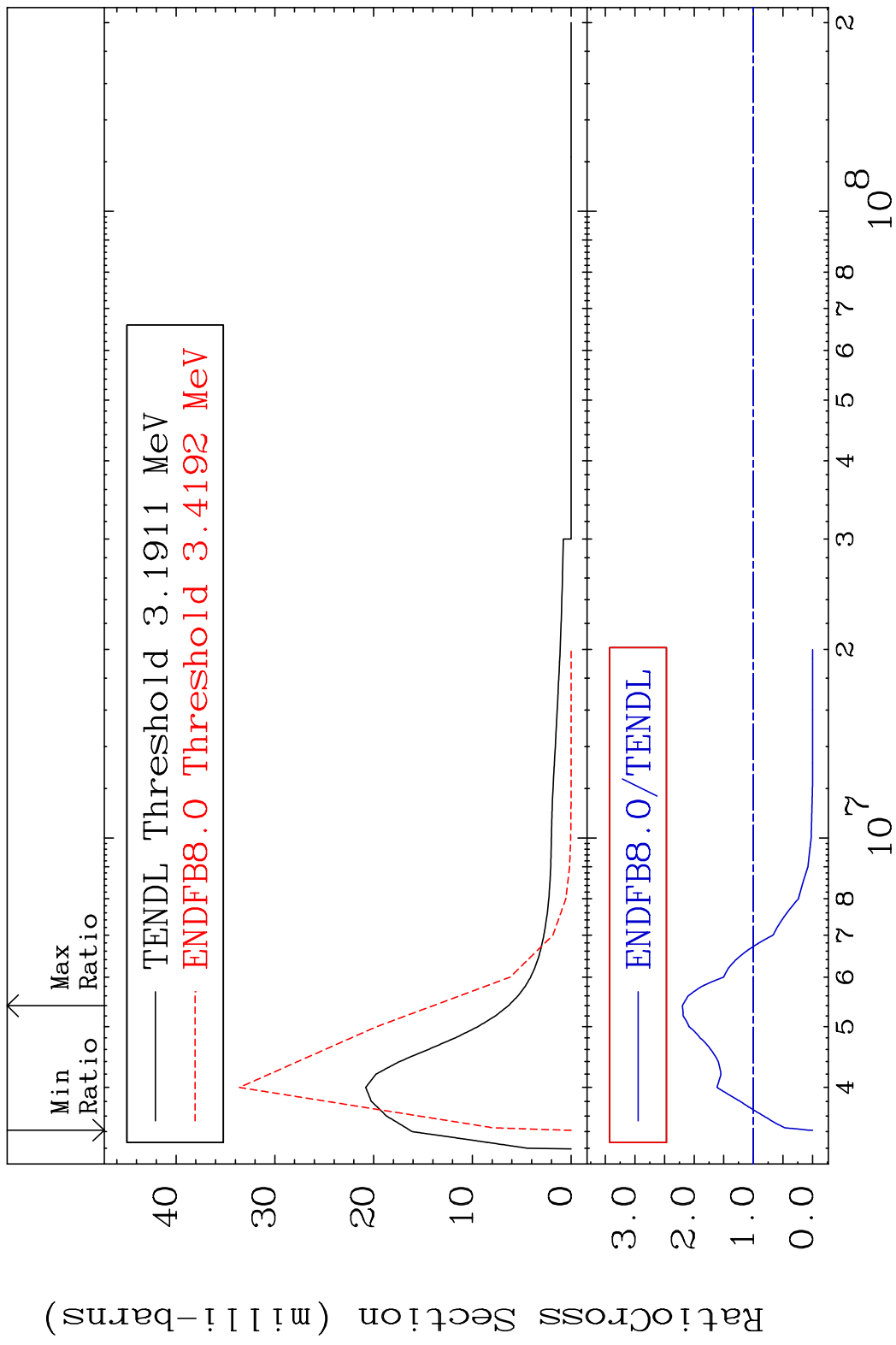
MAT 5837 MT= 70 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 78.07 %



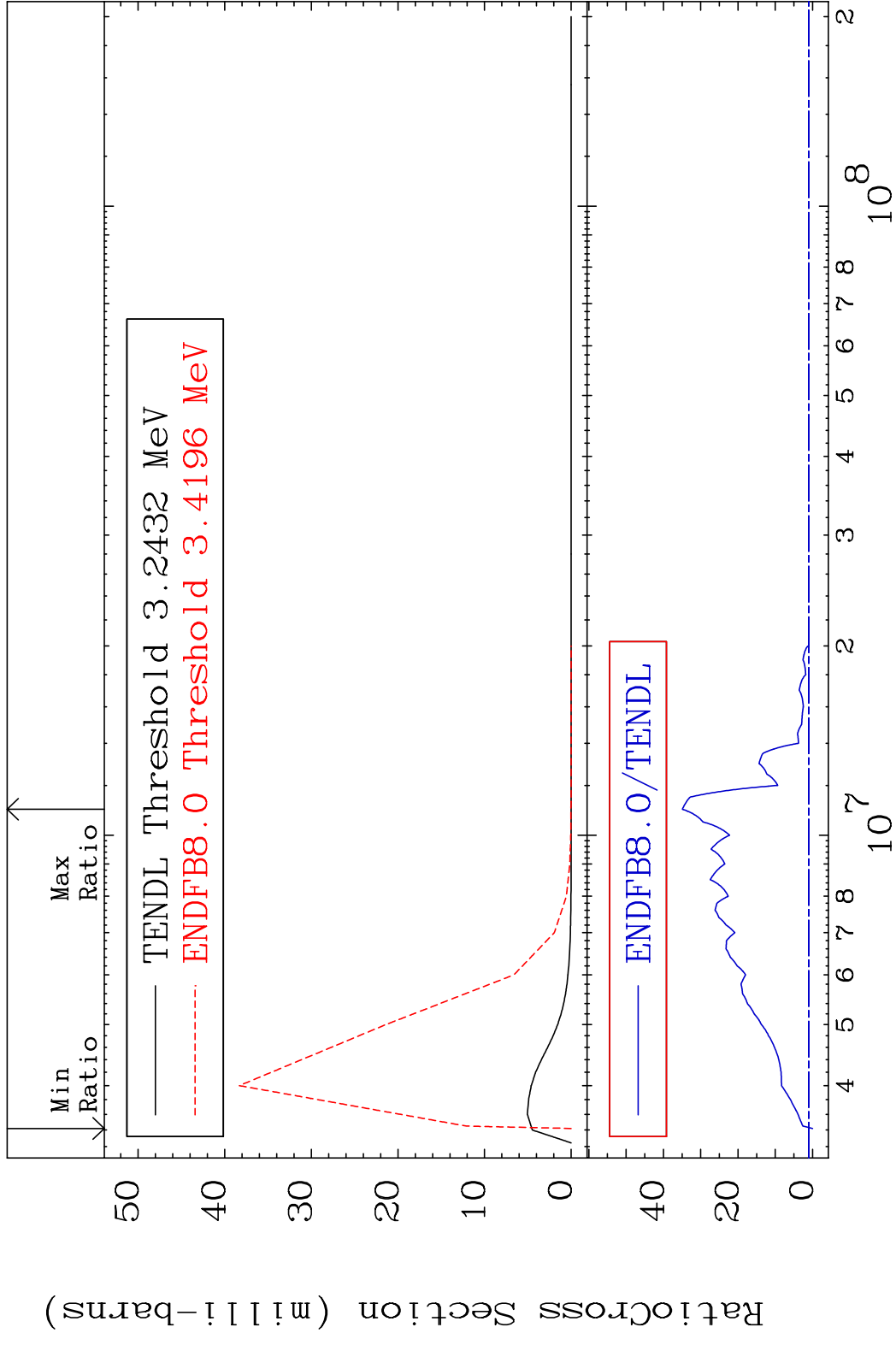
MAT 5837 MT= 71 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 83.74 %



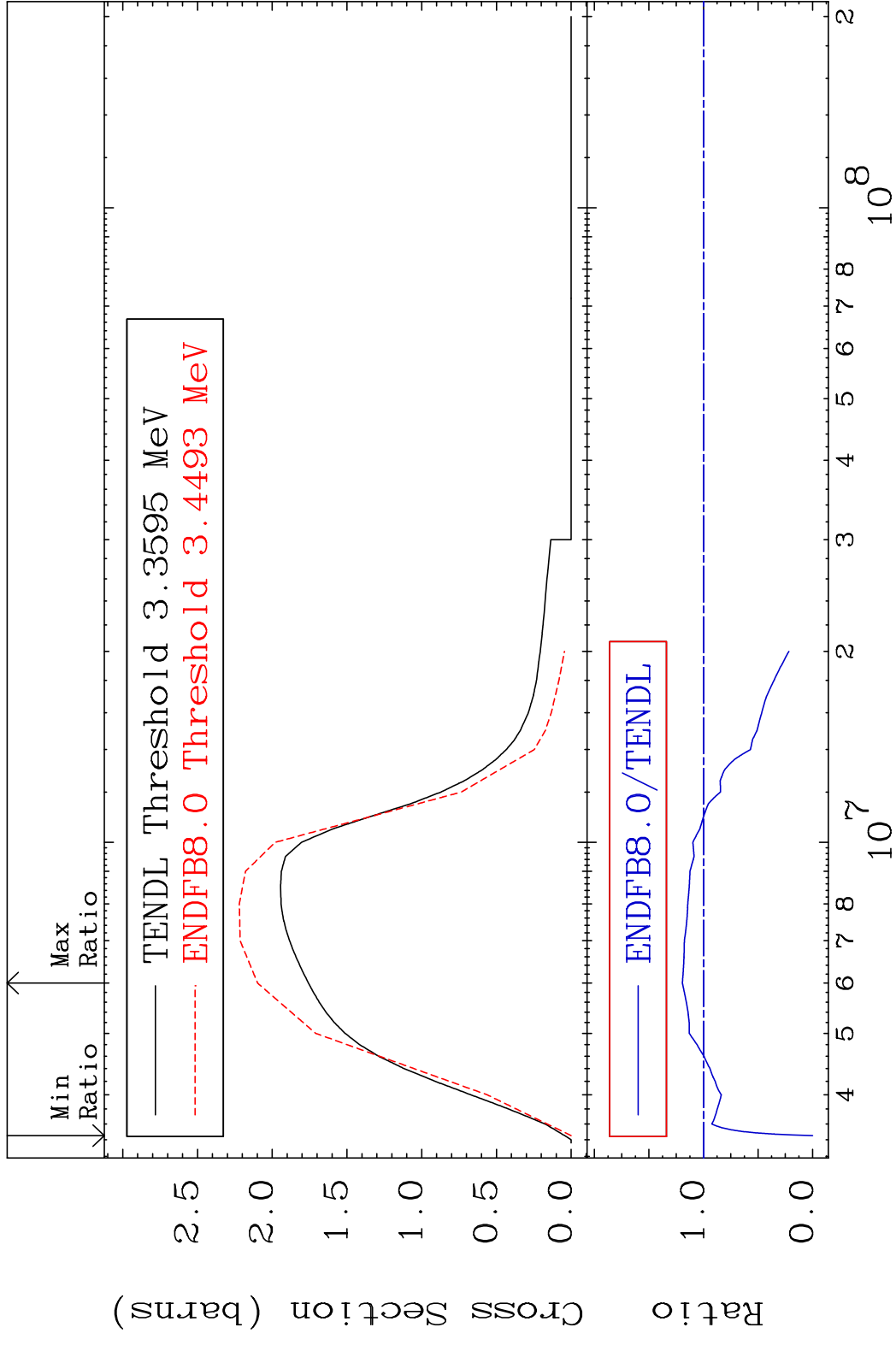
MAT 5837 MT= 72 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 120.0 %



MAT 5837 MT= 73 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 3392. %



MAT 5837 (n,n') Continuum 58-Ce-140
 Cross Section -100.0 To 19.39 %

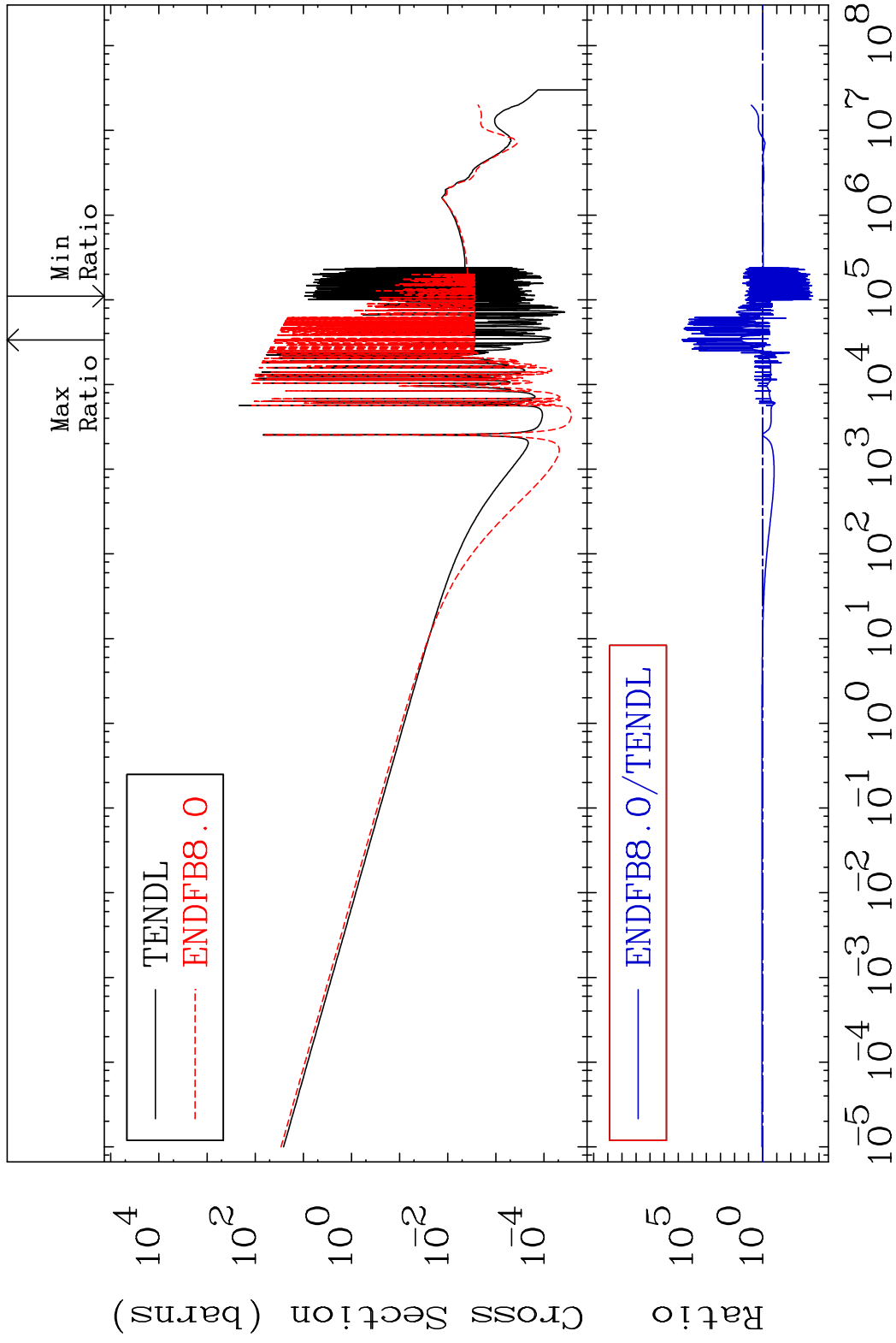


MAT 5837

(n, γ)

58-Ce-140

Cross Section -99.97 To 9999. %



33

Incident Energy (eV)

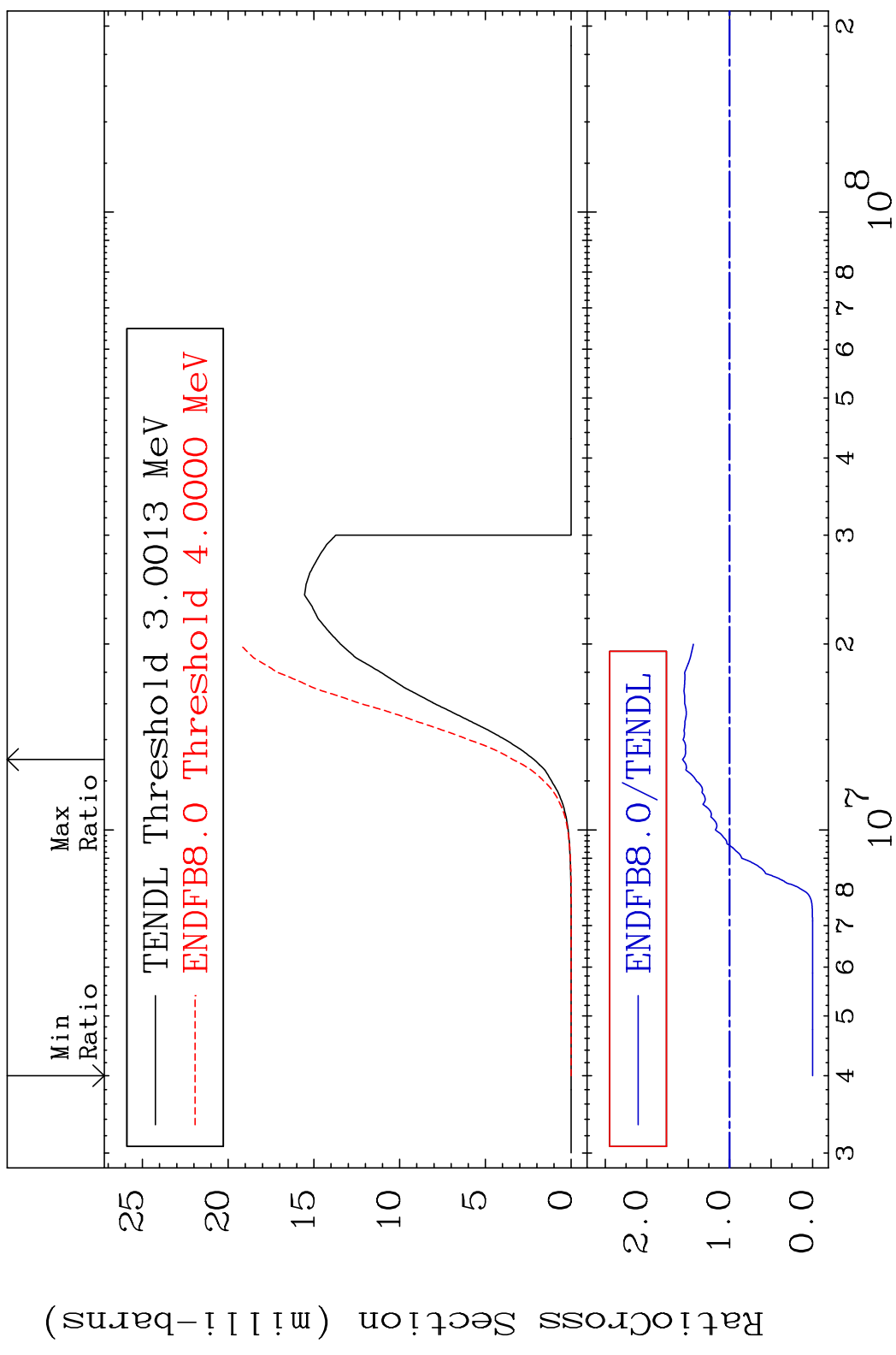
58-Ce-140

MAT 5837

(n,p)

58-Ce-140

Cross Section -100.0 To 57.06 %

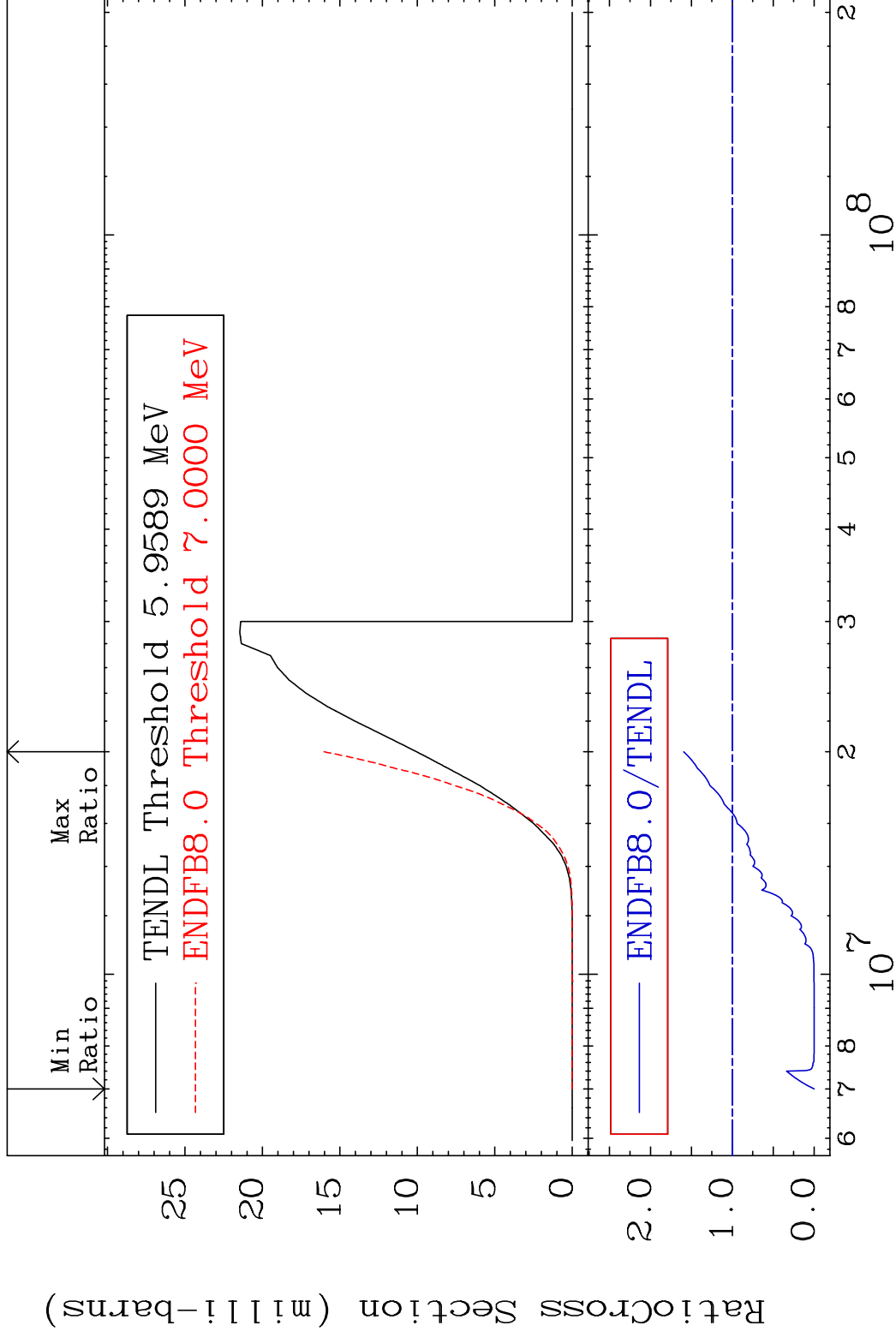


MAT 5837

(n,d)

58-Ce-140

Cross Section -100.0 To 59.43 %



35

Incident Energy (eV)

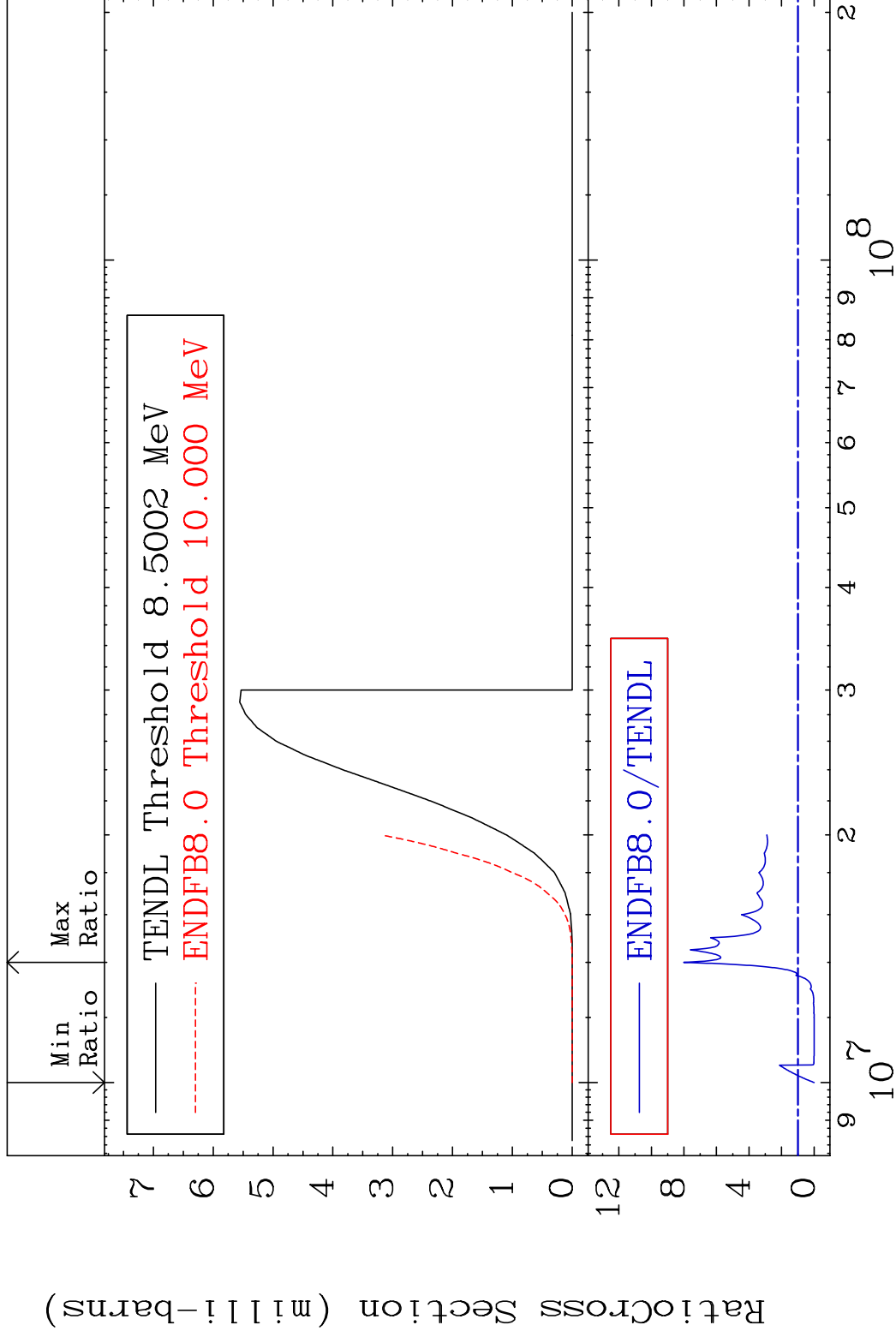
58-Ce-140

MAT 5837

(n, t)

58-Ce-140

Cross Section -100.0 To 701.6 %



36

Incident Energy (eV)

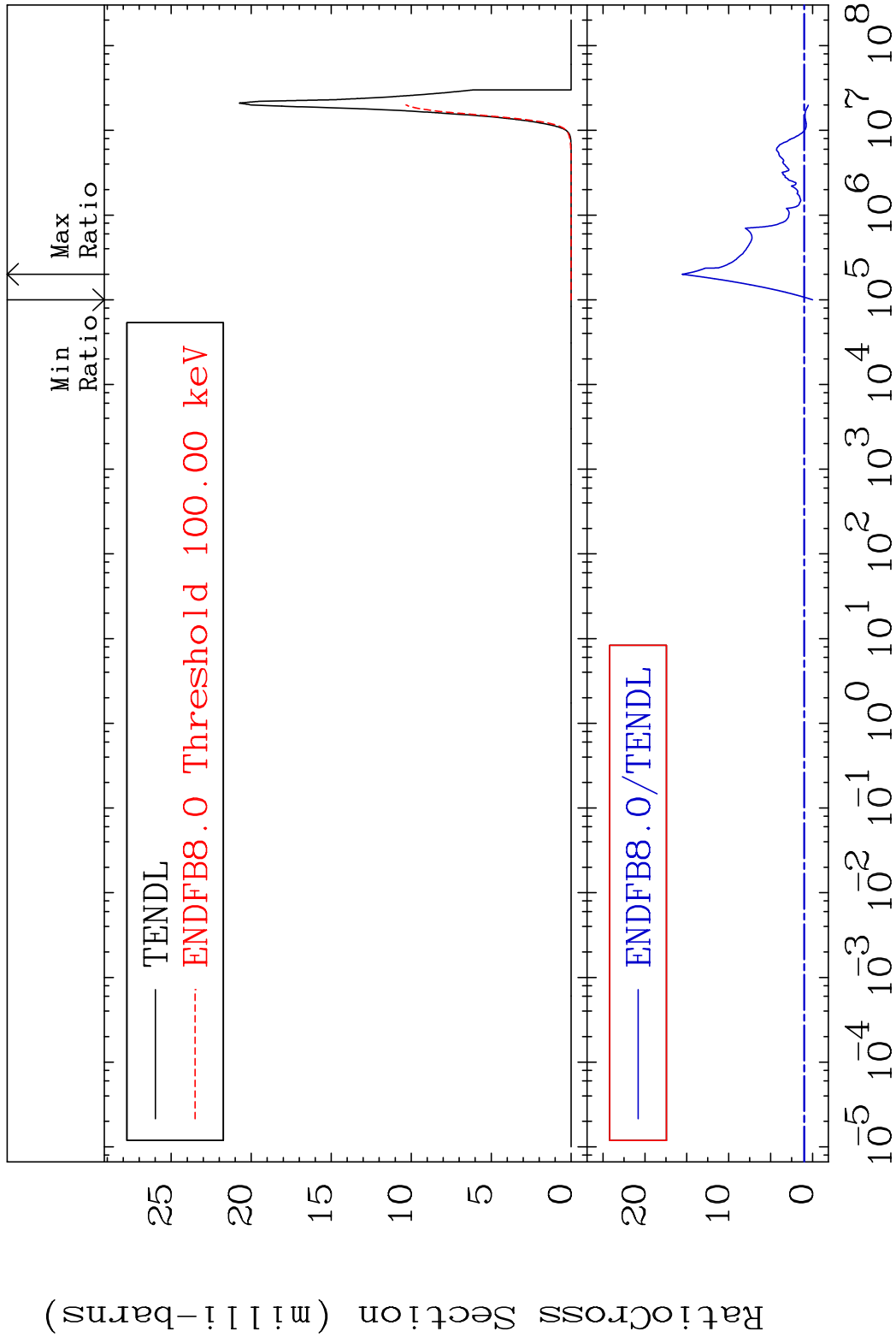
58-Ce-140

MAT 5837

(n, α)

58-Ce-140

Cross Section -100.0 To 1453. %



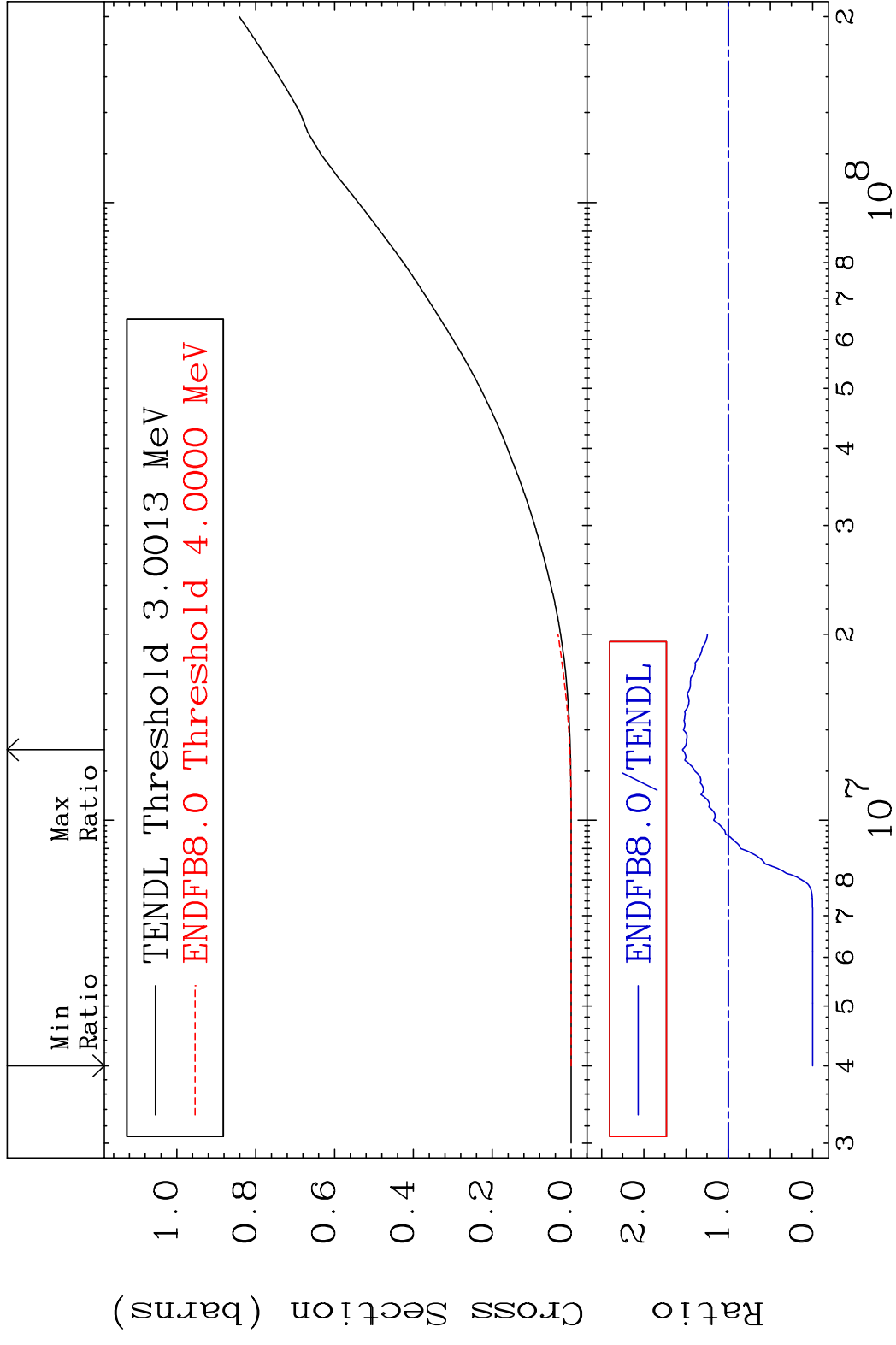
37

Incident Energy (eV)

58-Ce-140

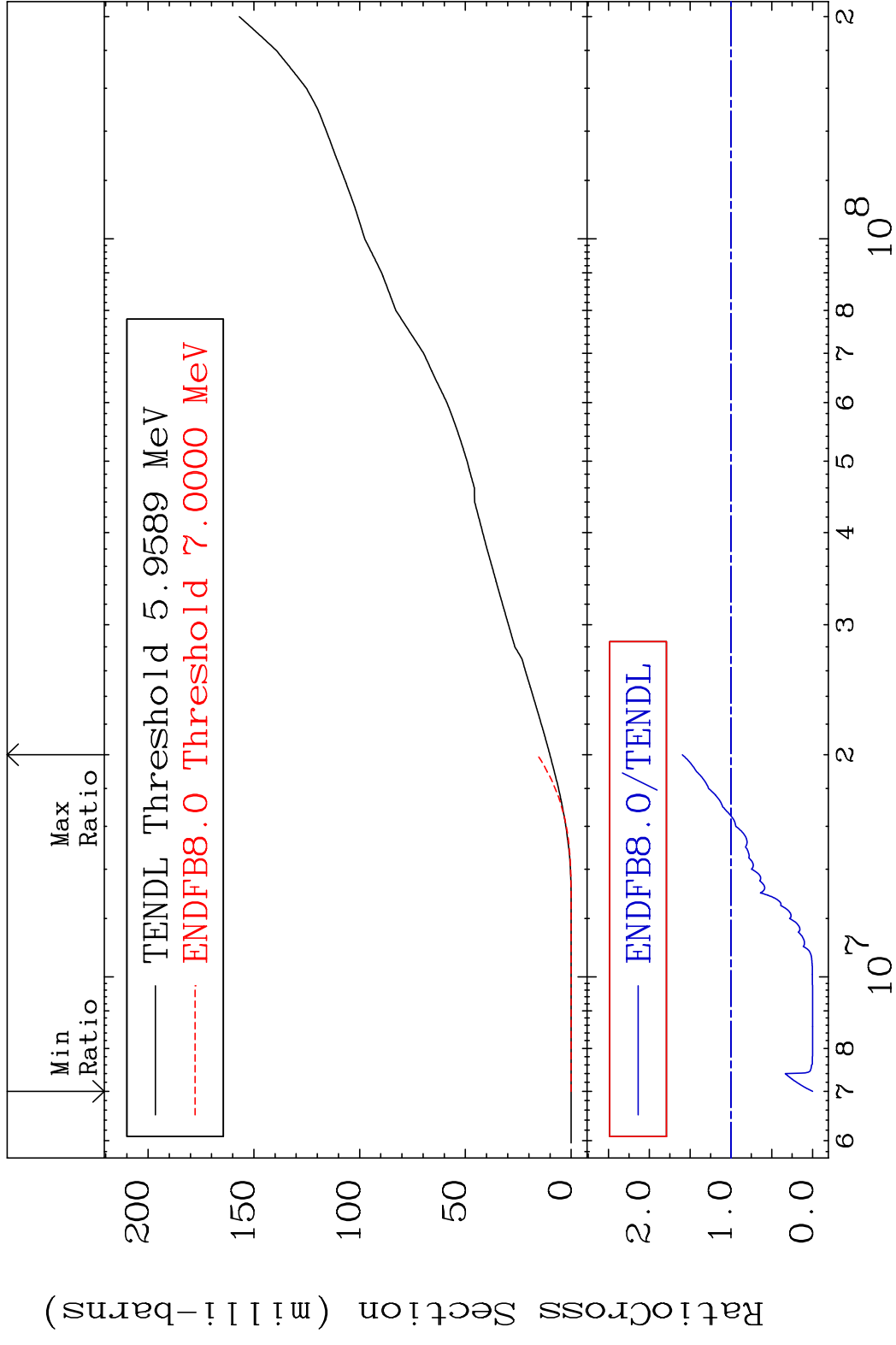
MAT 5837

Hydrogen Production 58-Ce-140
Cross Section -100.0 To 54.31 %



MAT 5837

Deuterium Production 58-Ce-140
Cross Section -100.0 To 59.59 %

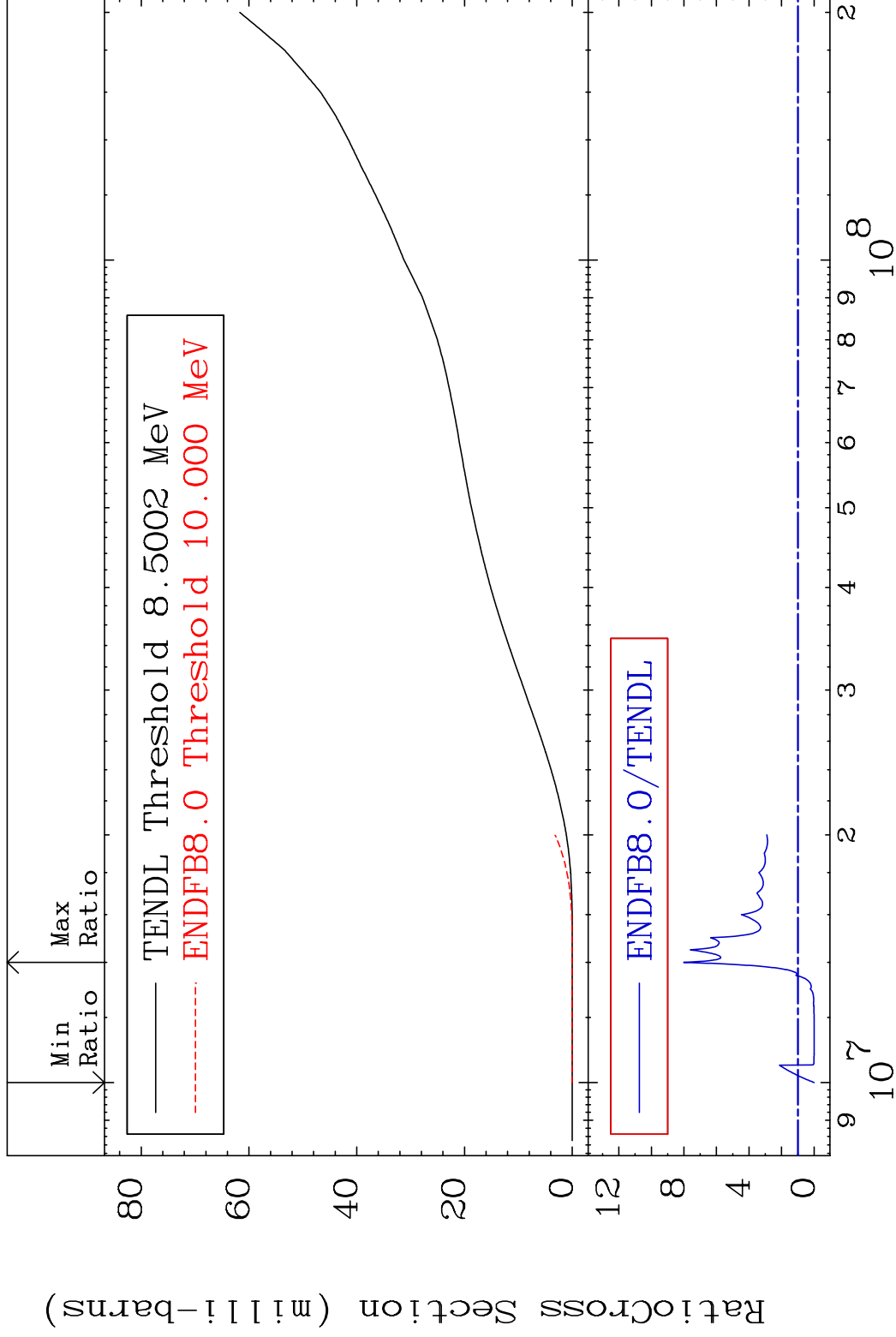


MAT 5837

Tritium Production

58-Ce-140

Cross Section -100.0 To 701.6 %



40

Incident Energy (eV)

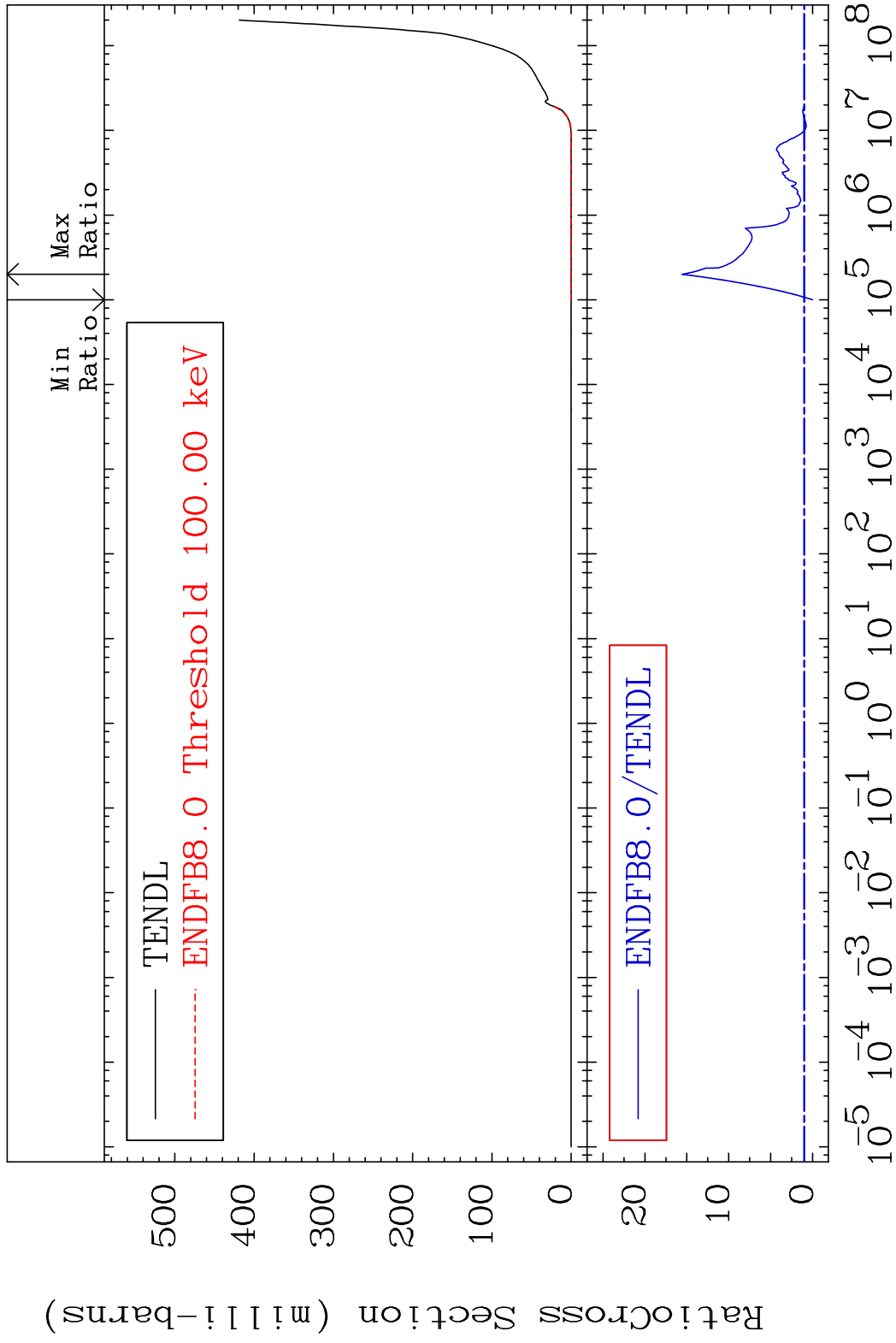
58-Ce-140

MAT 5837

He-4 Production

58-Ce-140

Cross Section -100.0 To 1453. %

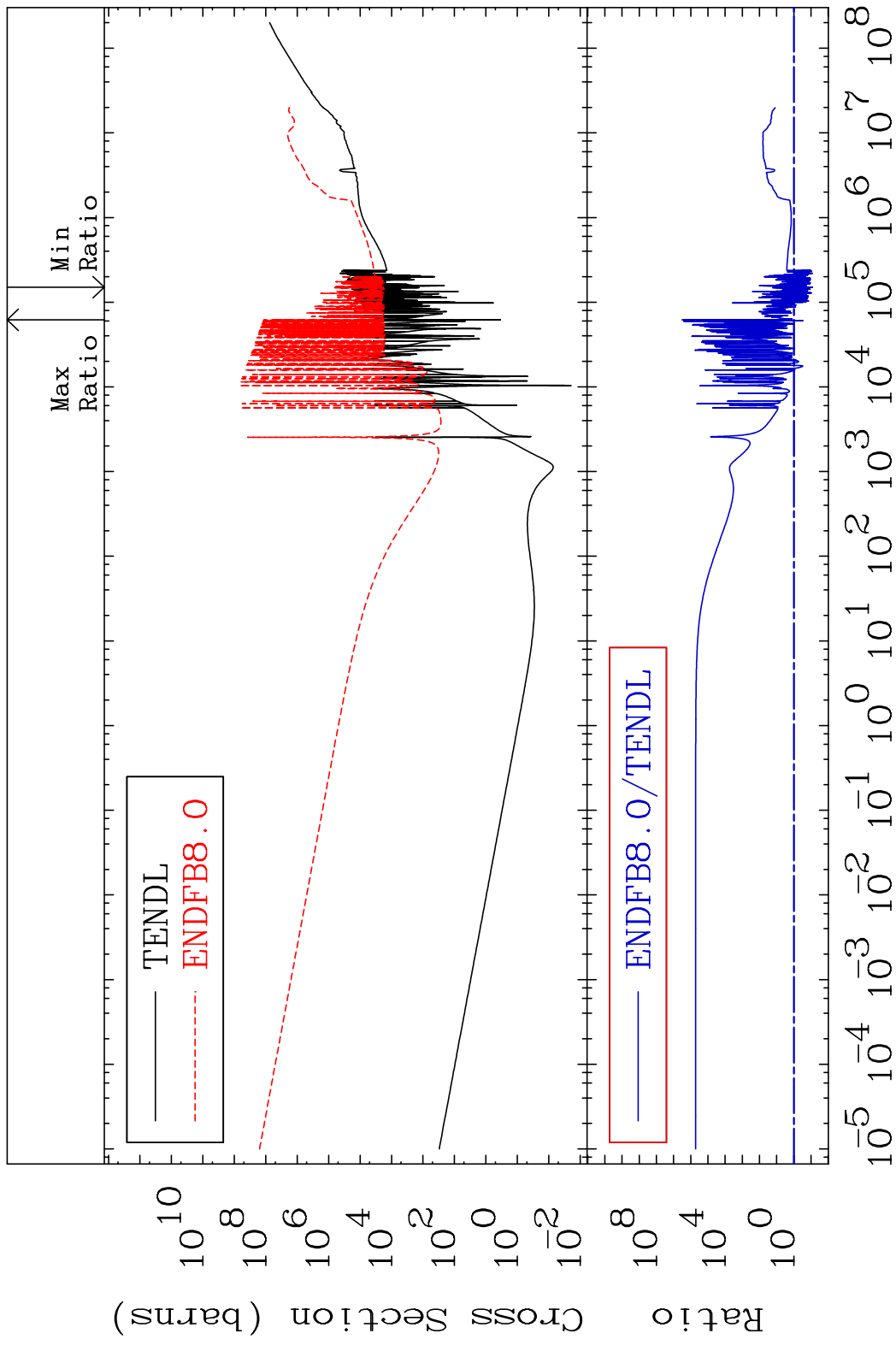


41

Incident Energy (eV)

58-Ce-140

MAT 5837 Kerma total (eV-barns) 58-Ce-140
 Cross Section -91.86 To 9999. %

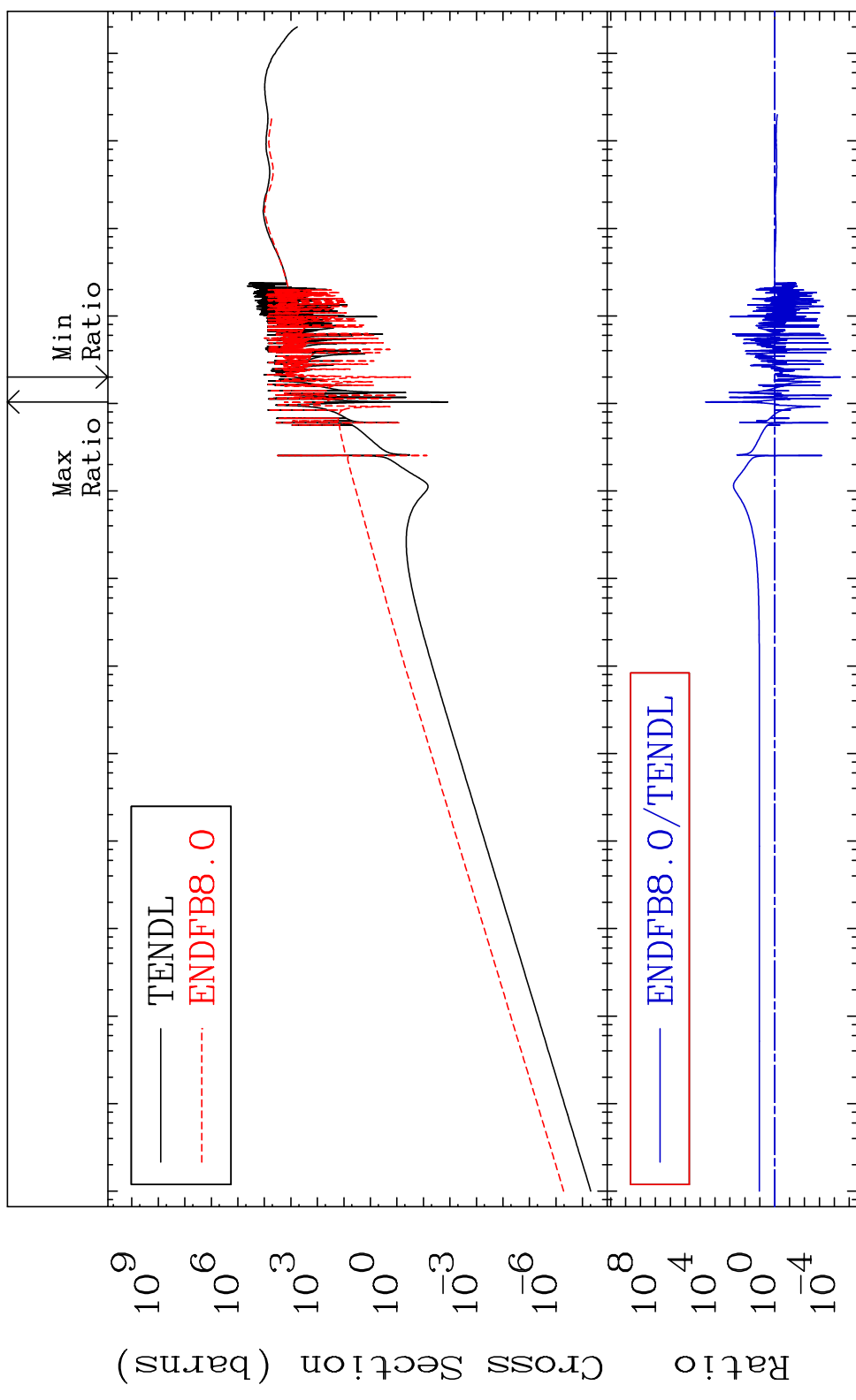


42 Incident Energy (eV) 58-Ce-140

MAT 5837

Kerma elastic
Cross Section -100.0 To 9999. %

58-Ce-140

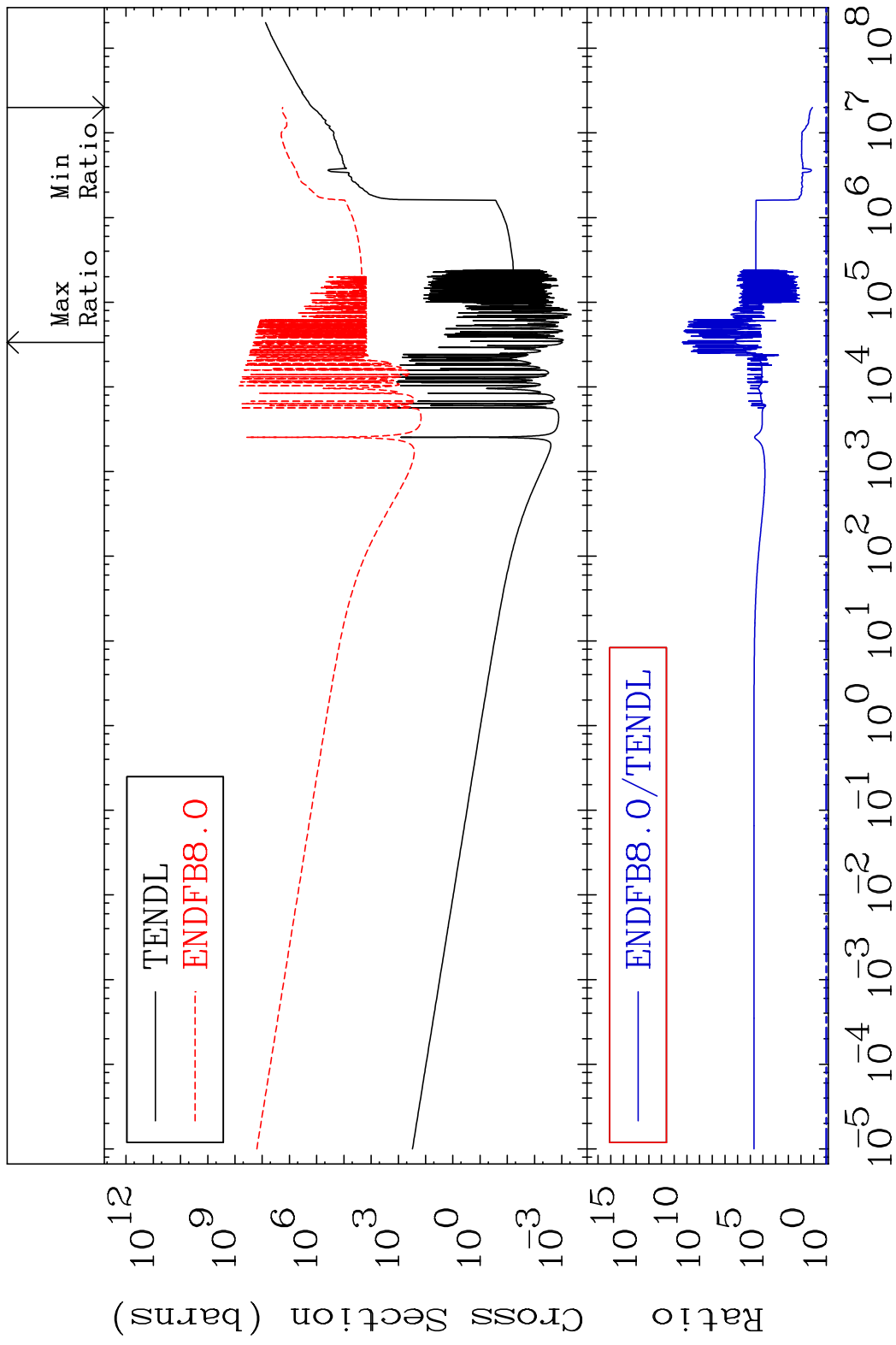


43

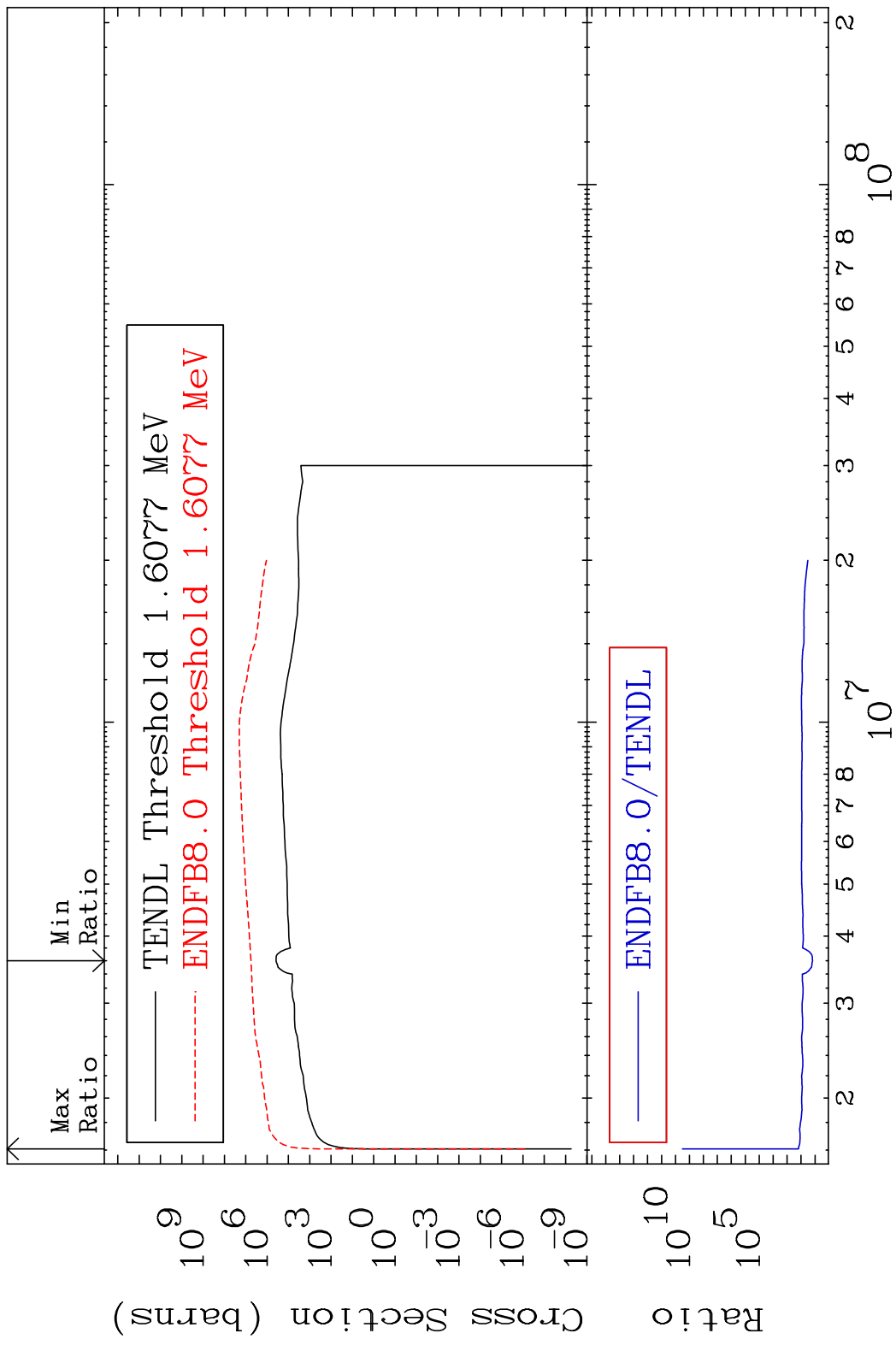
Incident Energy (eV)

58-Ce-140

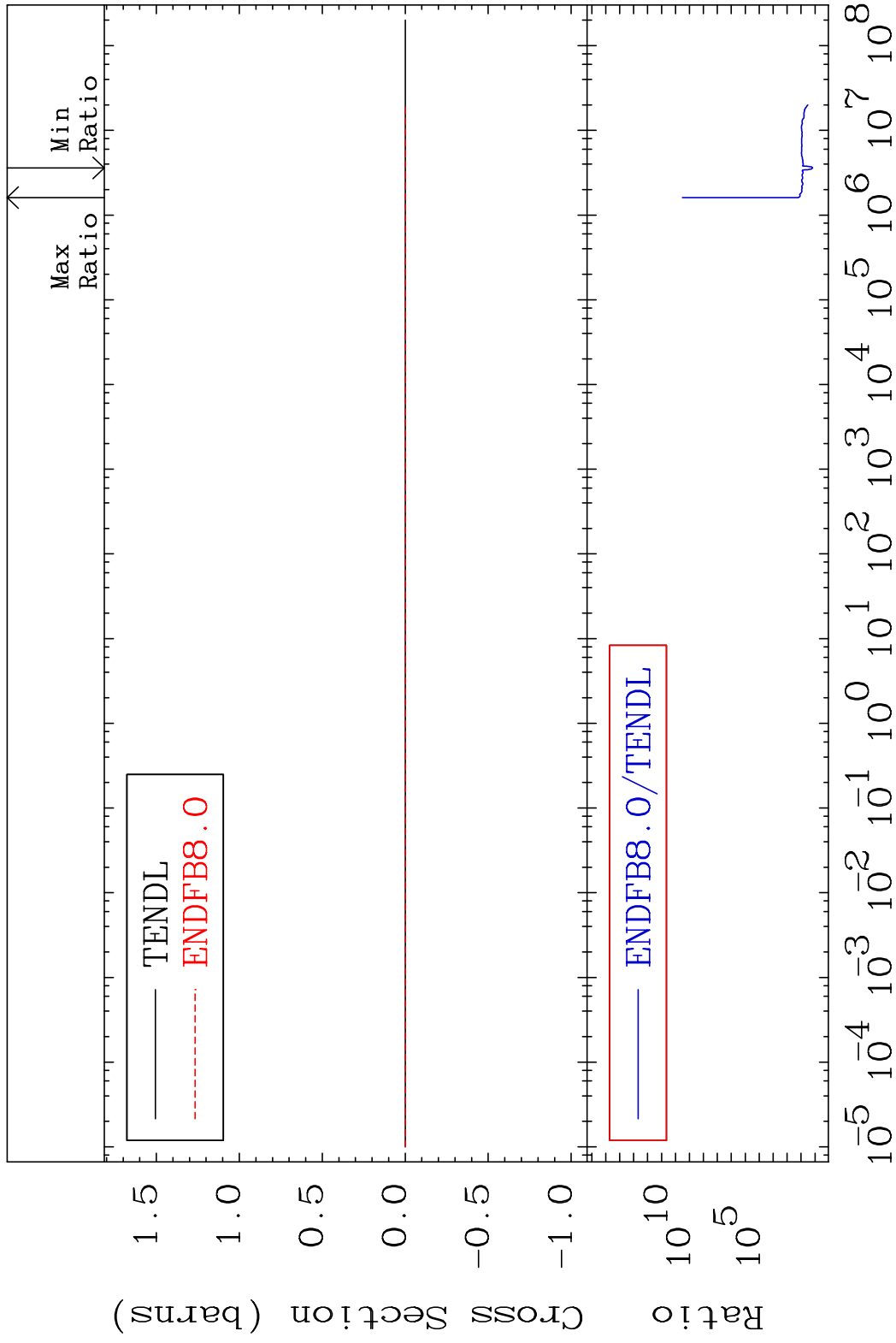
MAT 5837 Kerma non-elastic (all but mt2) 58-Ce-140
 Cross Section 1135. To 9999. %



MAT 5837 Kerma inelastic (mt51-91) 58-Ce-140
 Cross Section 1399. To 9999. %

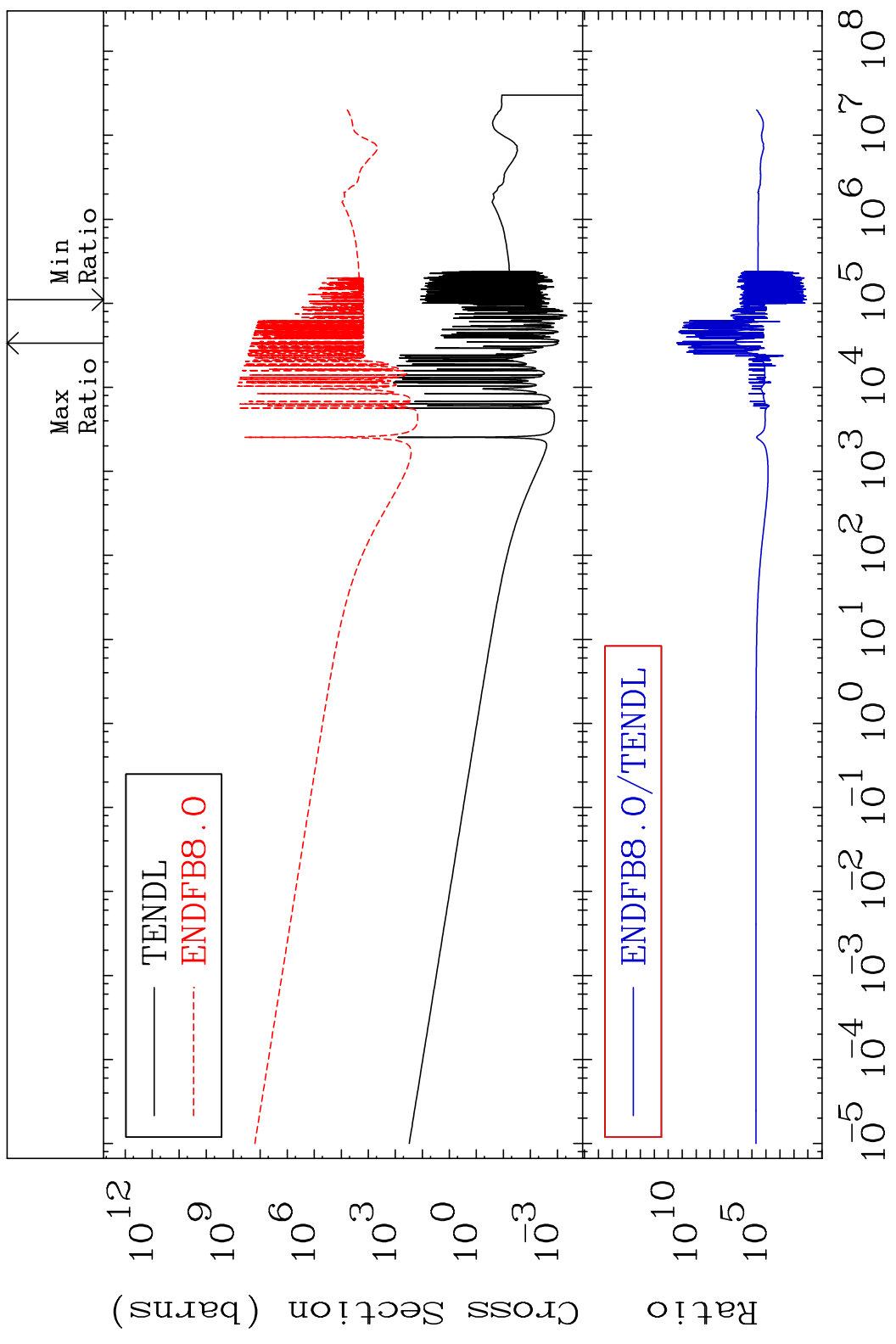


MAT 5837 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-140
 Cross Section 1399. To 9999. %



MAT 5837

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



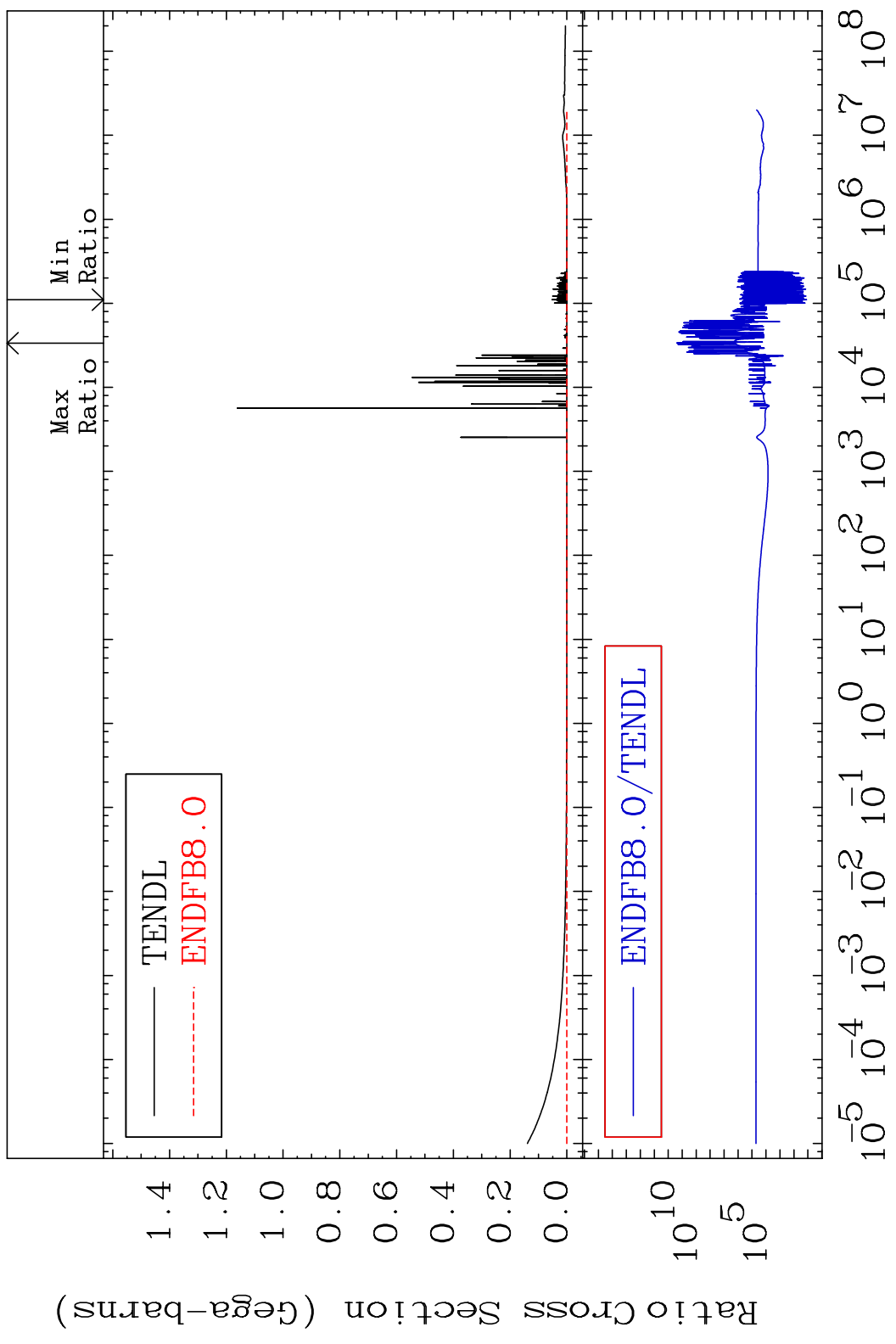
47

Incident Energy (eV)

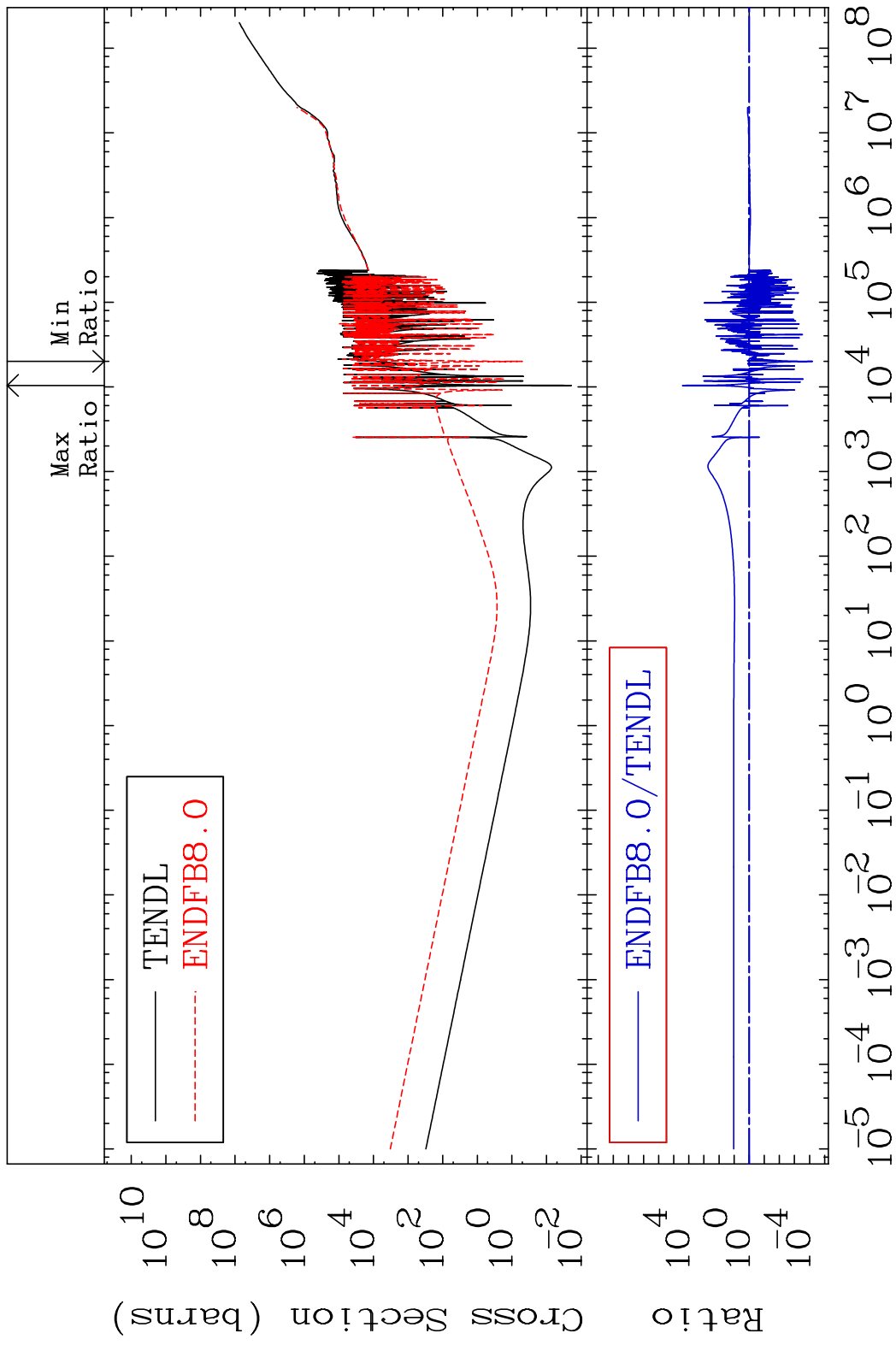
58-Ce-140

MAT 5837

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



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

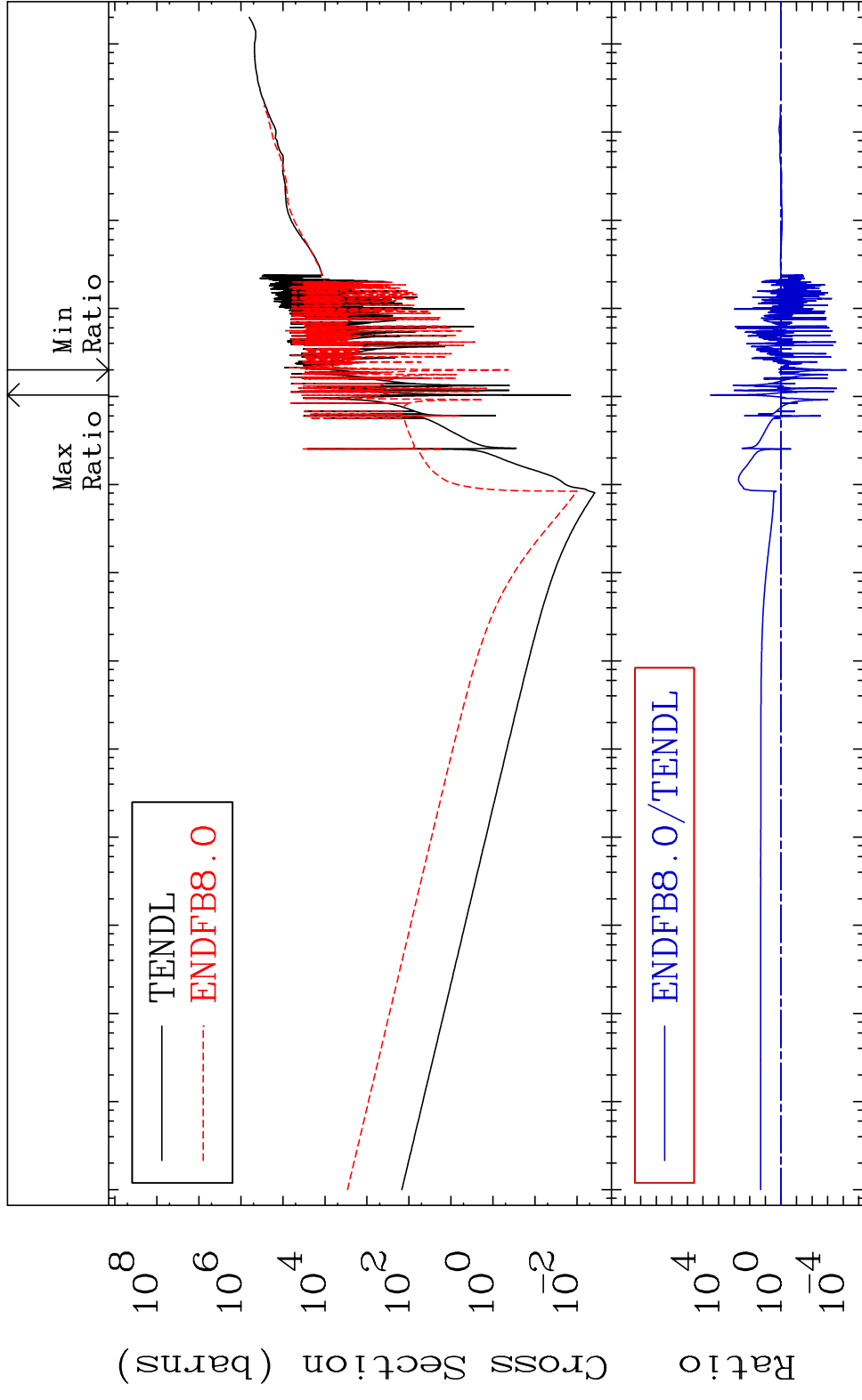


MAT 5837

Dpa total (eV-barns)

58-Ce-140

Cross Section -99.99 To 9999. %



50

Incident Energy (eV)

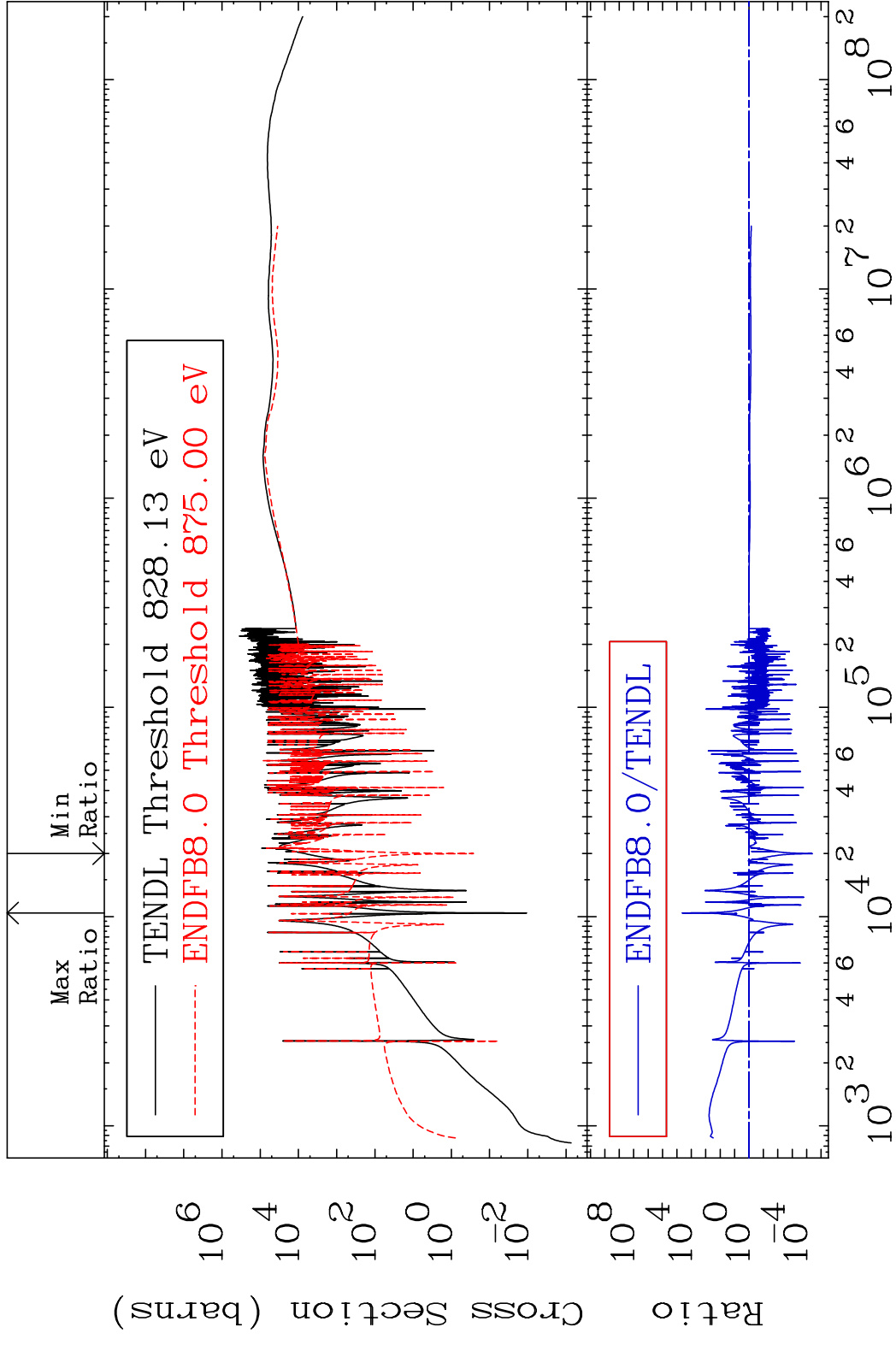
58-Ce-140

MAT 5837

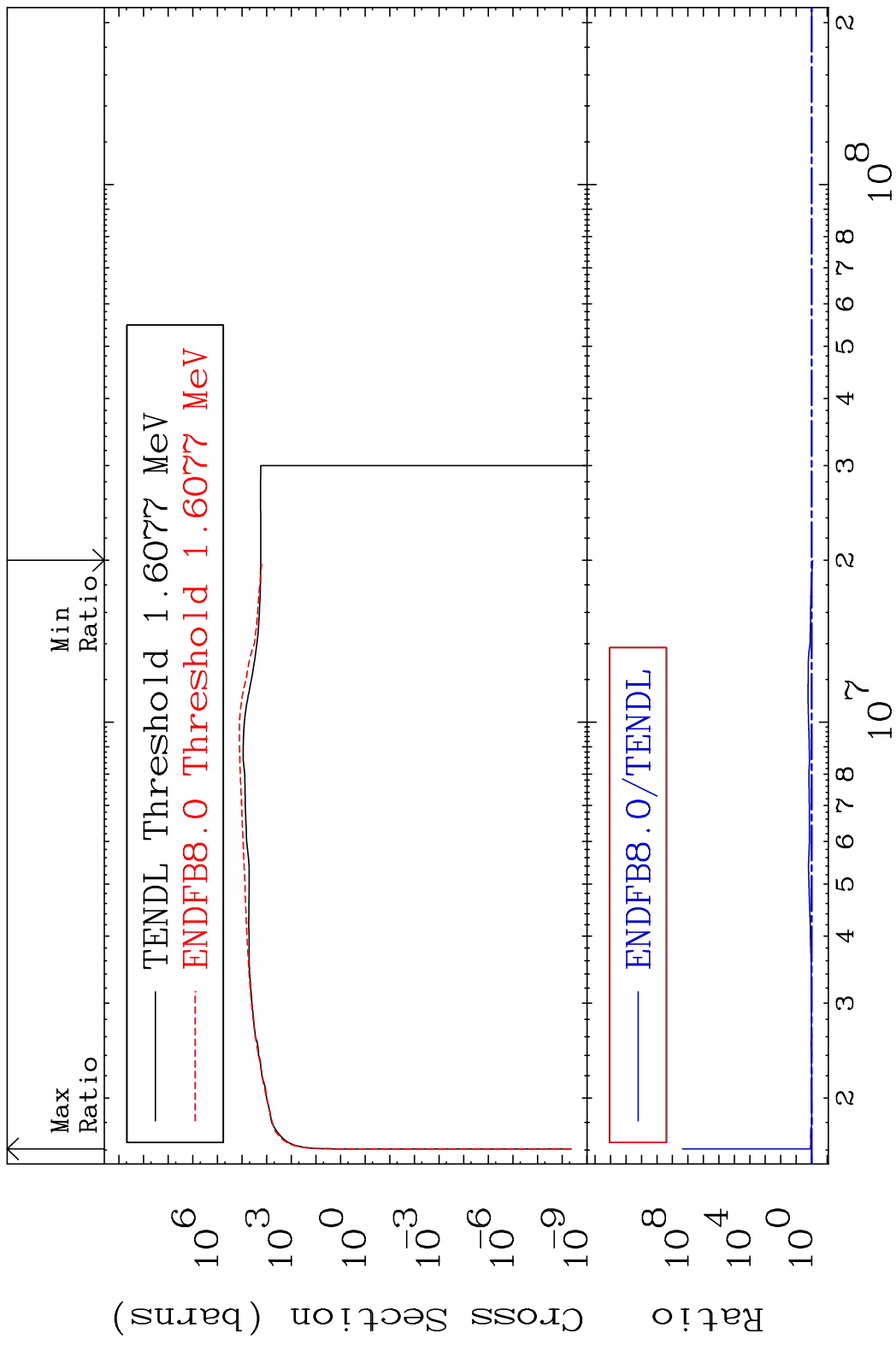
Dpa elastic (mt2)

58-Ce-140

Cross Section -100.0 To 9999. %



MAT 5837 Dpa inelastic (mt51-91) 58-Ce-140
 Cross Section -12.00 To 9999. %



MAT 5837 Dpa disappearance (mt102 -120) 58-Ce-140
 Cross Section -96.46 To 9999. %

