

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

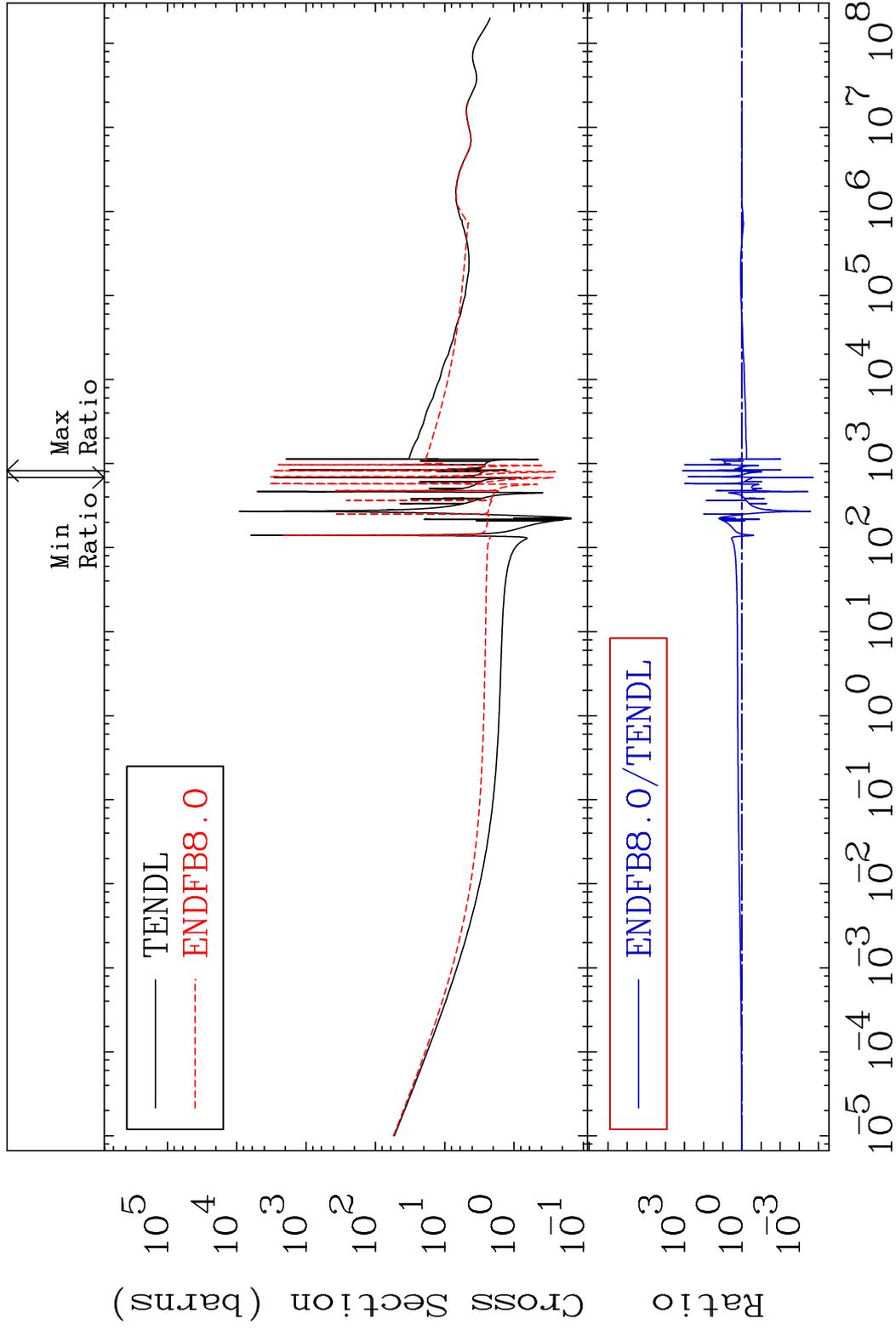
Press Mouse Button to Start

MAT 5831

Total

58-Ce-138

Cross Section -99.98 To 9999. %

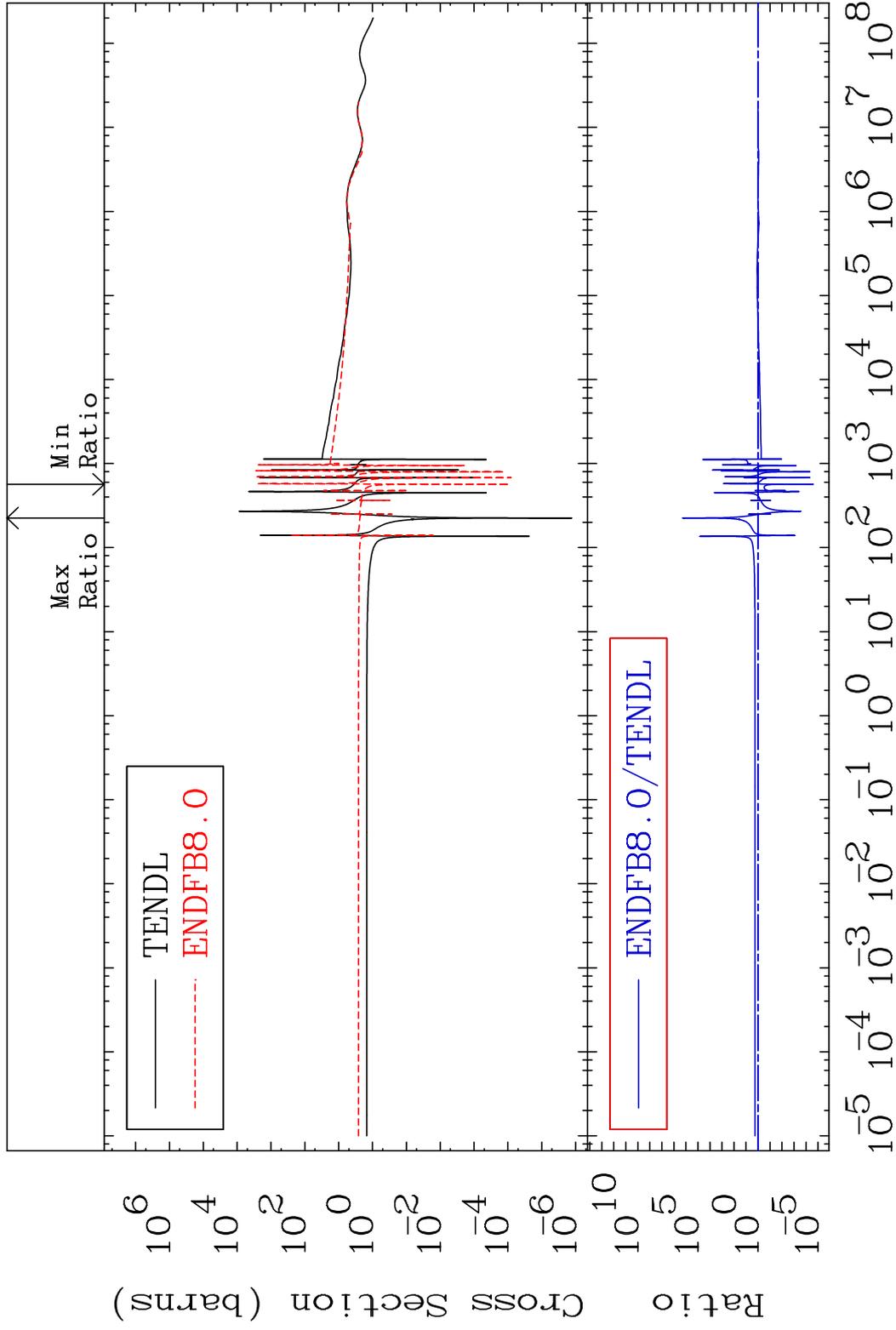


MAT 5831

Elastic

58-Ce-138

Cross Section -100.0 To 9999. %

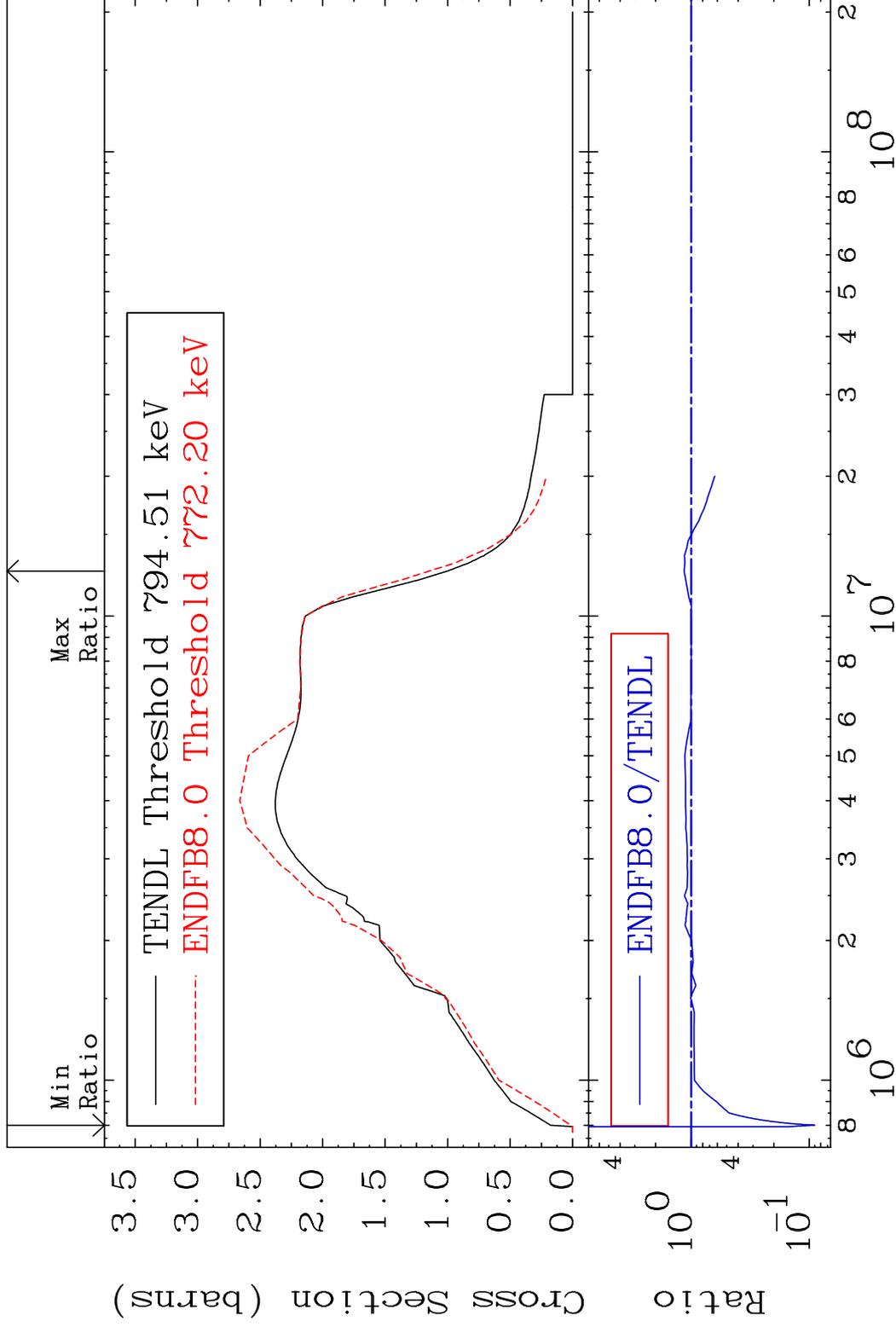


MAT 5831

Inelastic

58-Ce-138

Cross Section -90.99 To 14.77 %



3

Incident Energy (eV)

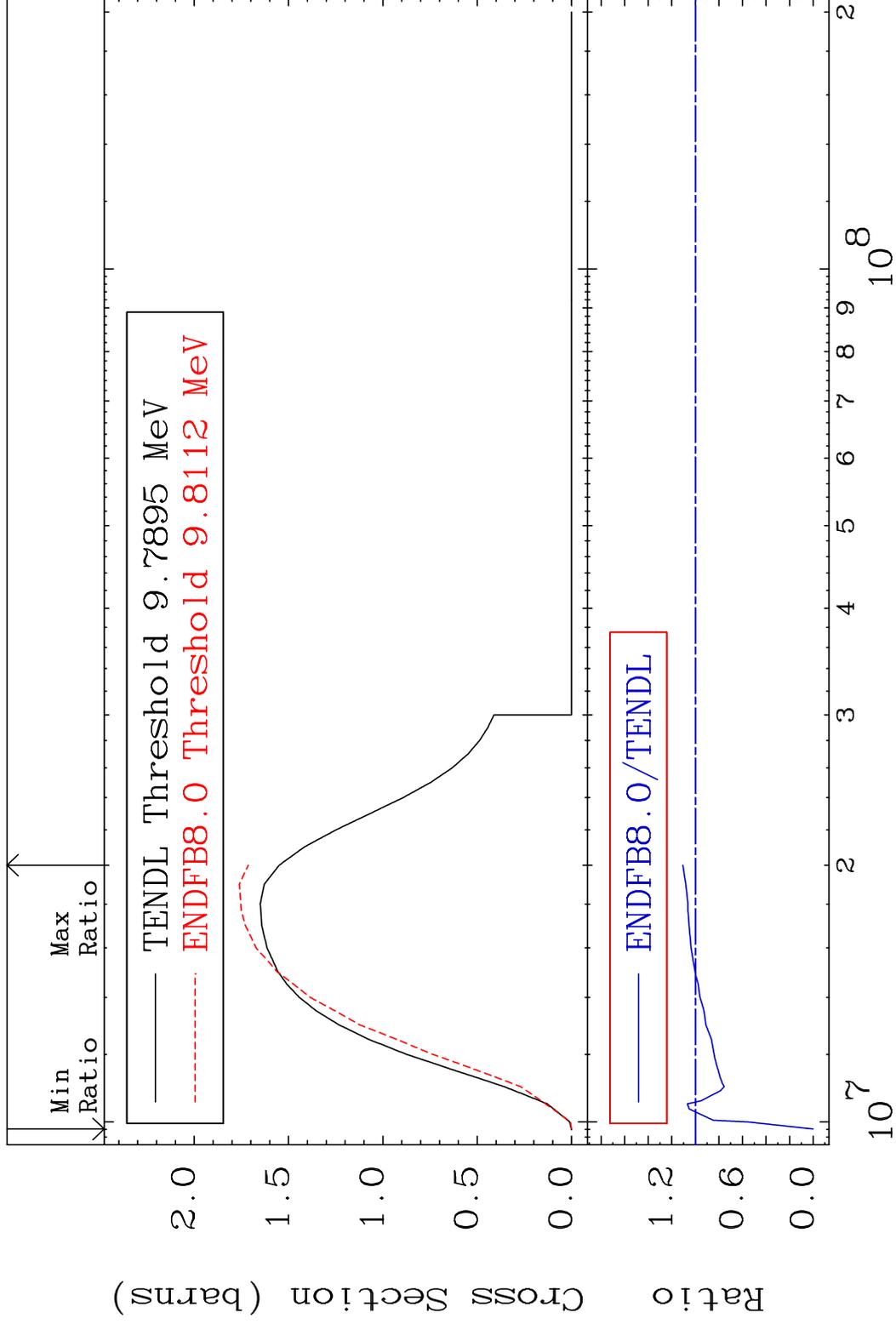
58-Ce-138

MAT 5831

(n,2n)

58-Ce-138

Cross Section -100.0 To 10.60 %



4

Incident Energy (eV)

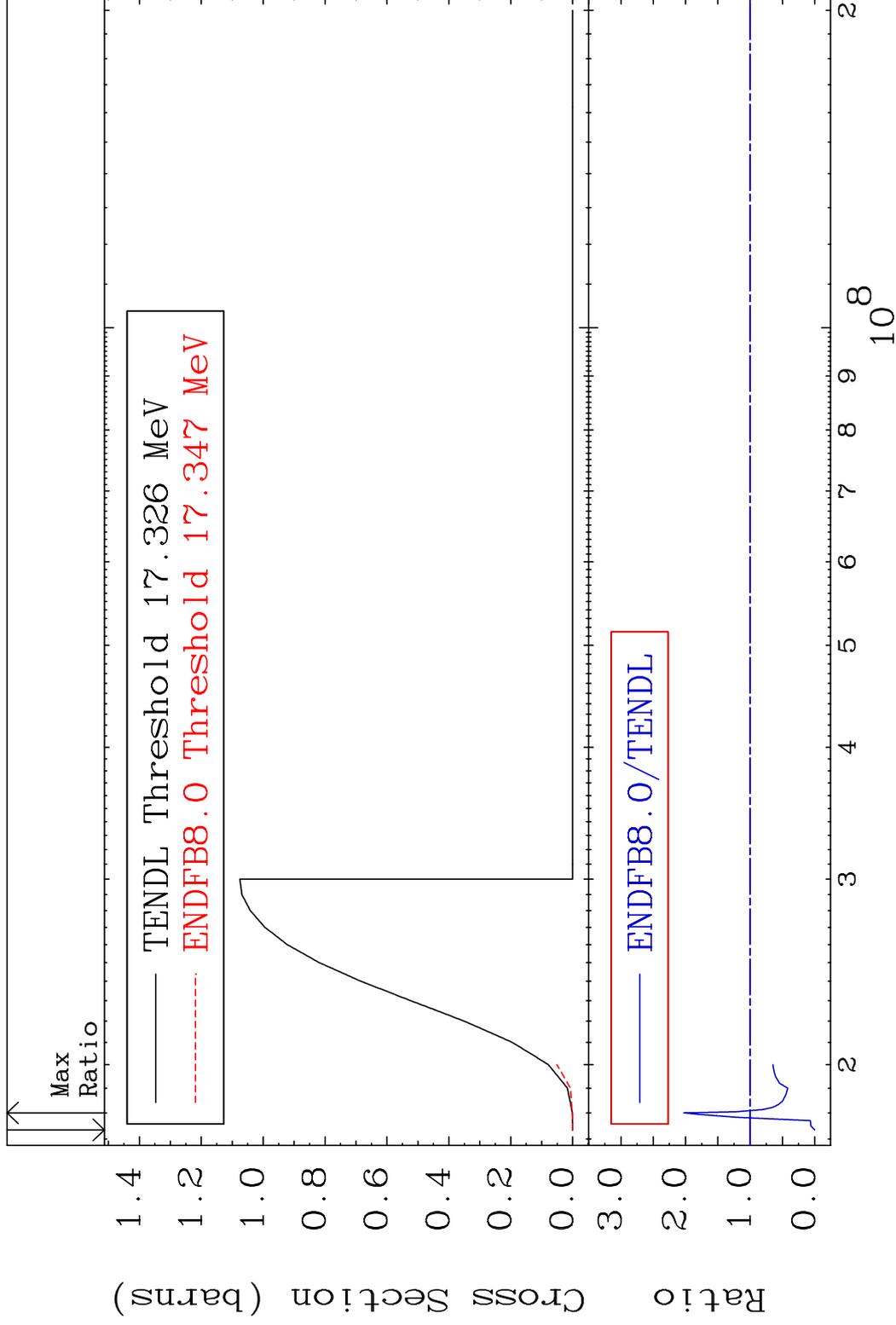
58-Ce-138

MAT 5831

(n,3n)

58-Ce-138

Cross Section -100.0 To 102.2 %



5

Incident Energy (eV)

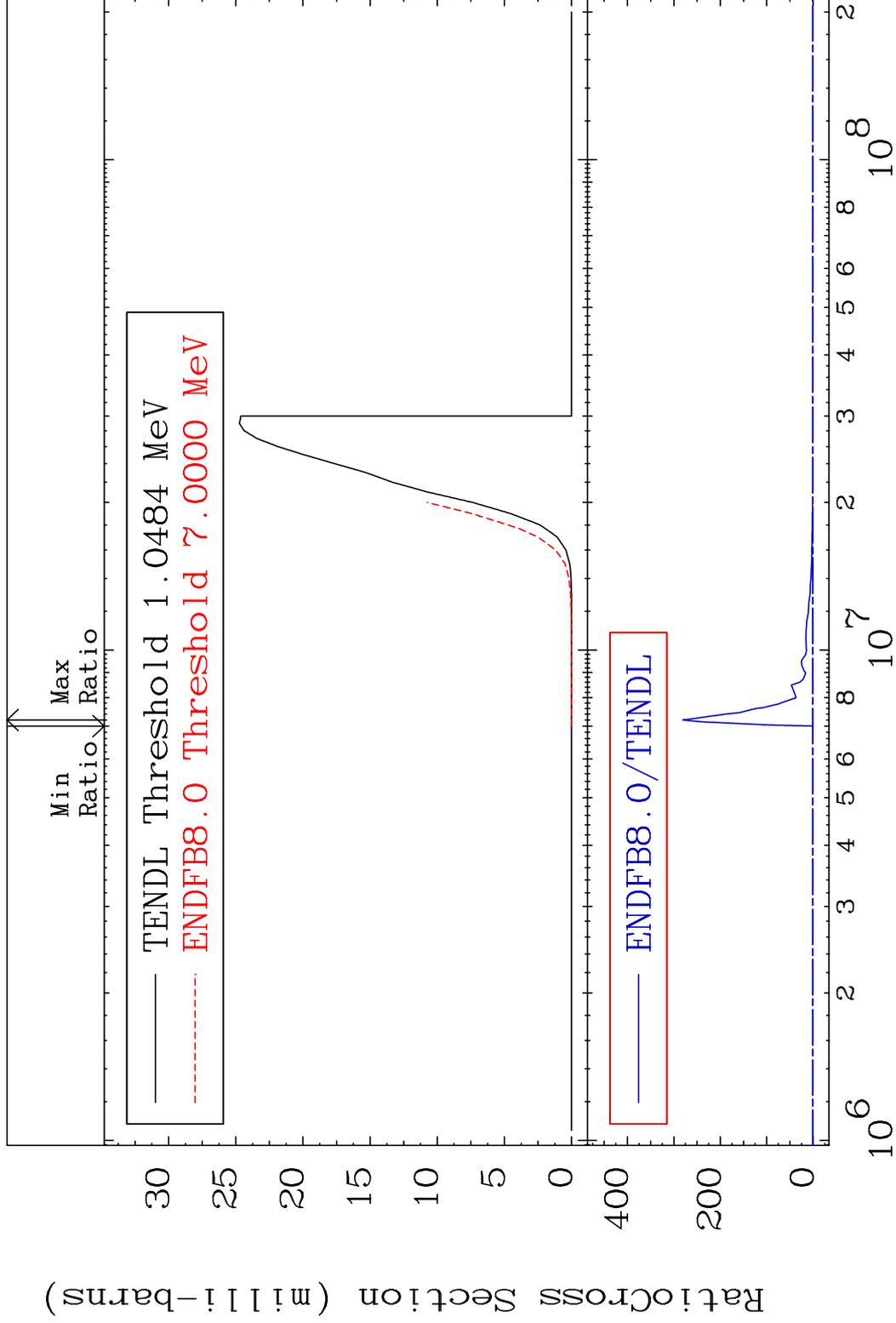
58-Ce-138

MAT 5831

(n, n') α

58-Ce-138

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

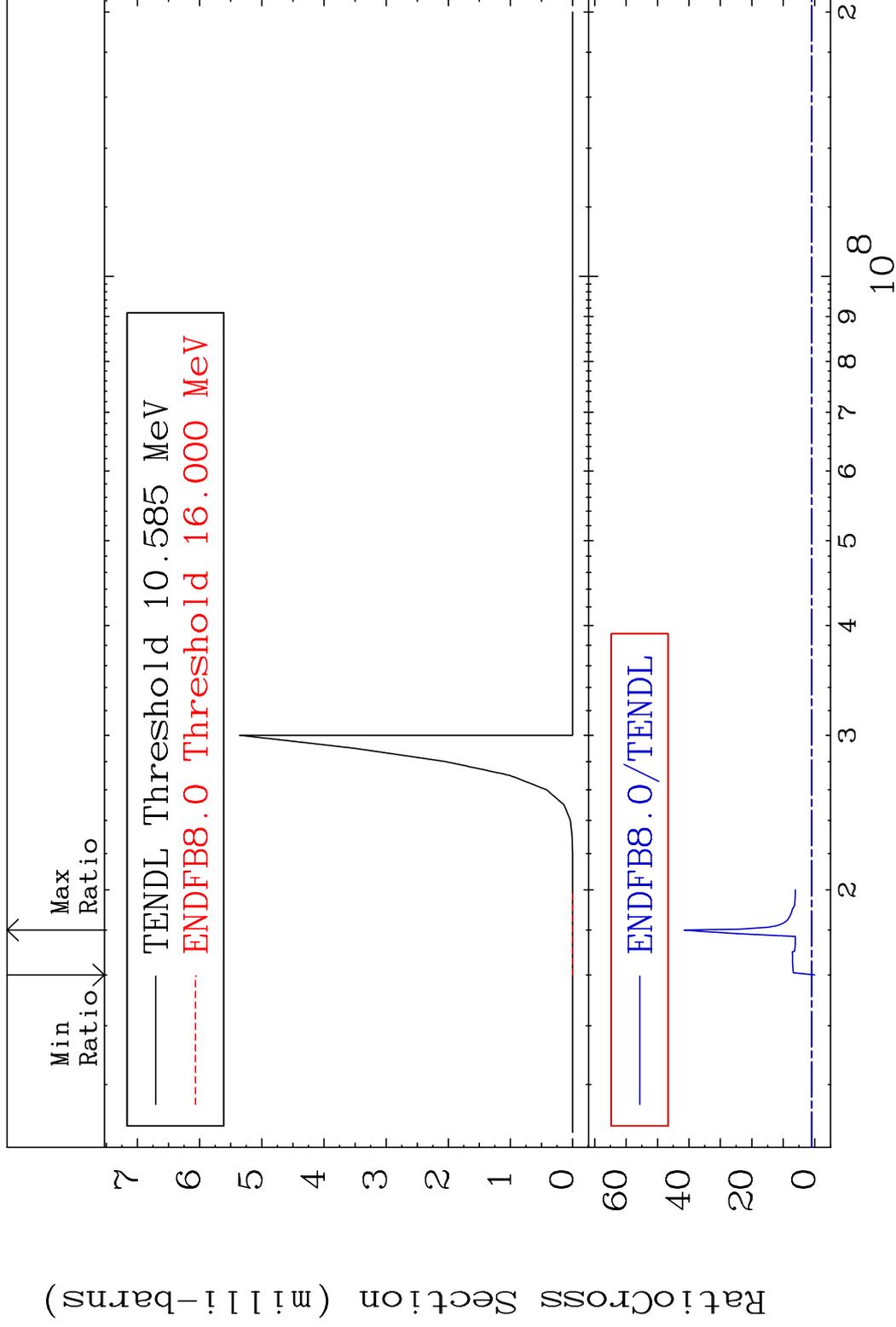
58-Ce-138

MAT 5831

(n,2n) α

58-Ce-138

Cross Section -100.0 To 4054. %

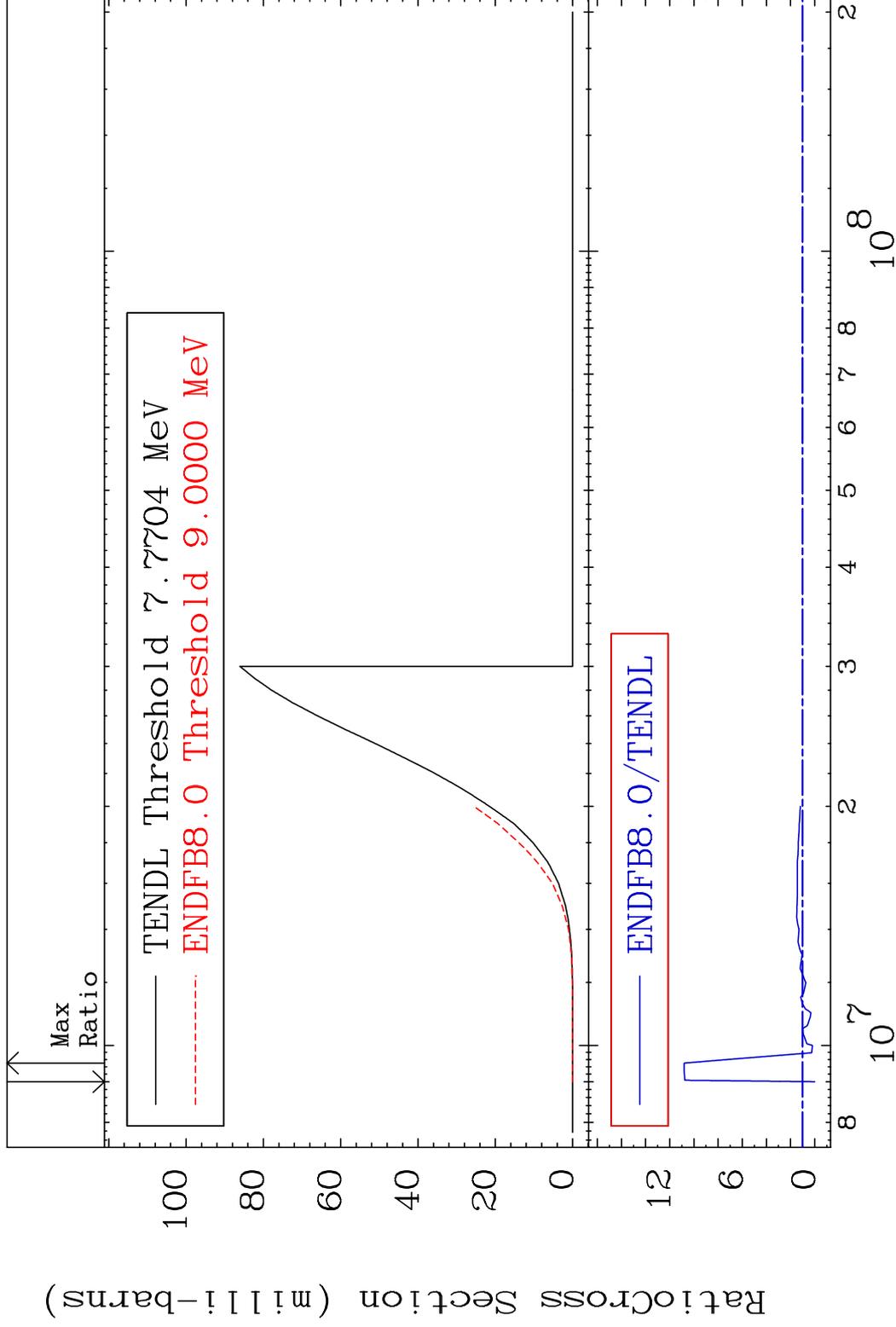


MAT 5831

(n, n') p

58-Ce-138

Cross Section -100.0 To 981.1 %



8

Incident Energy (eV)

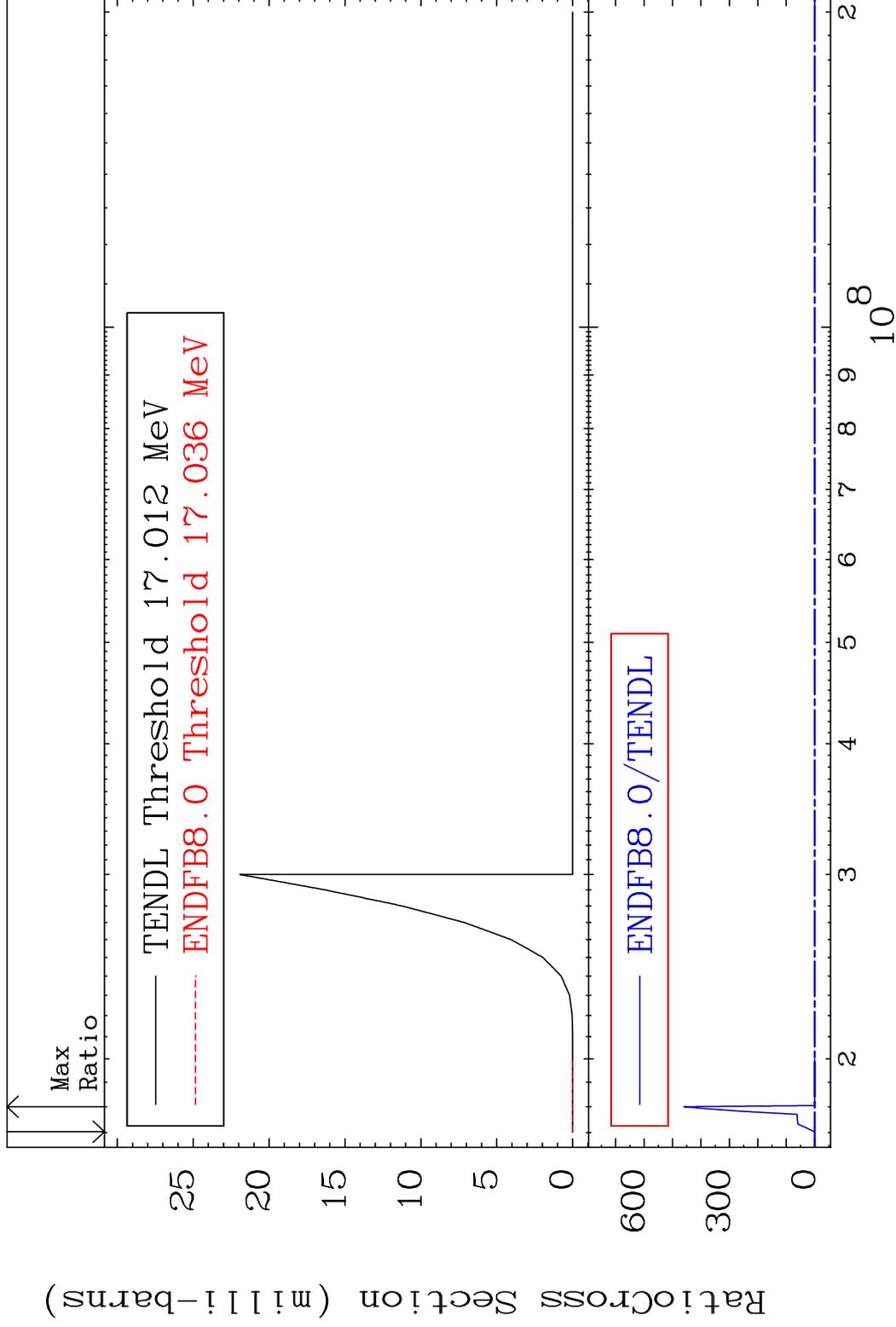
58-Ce-138

MAT 5831

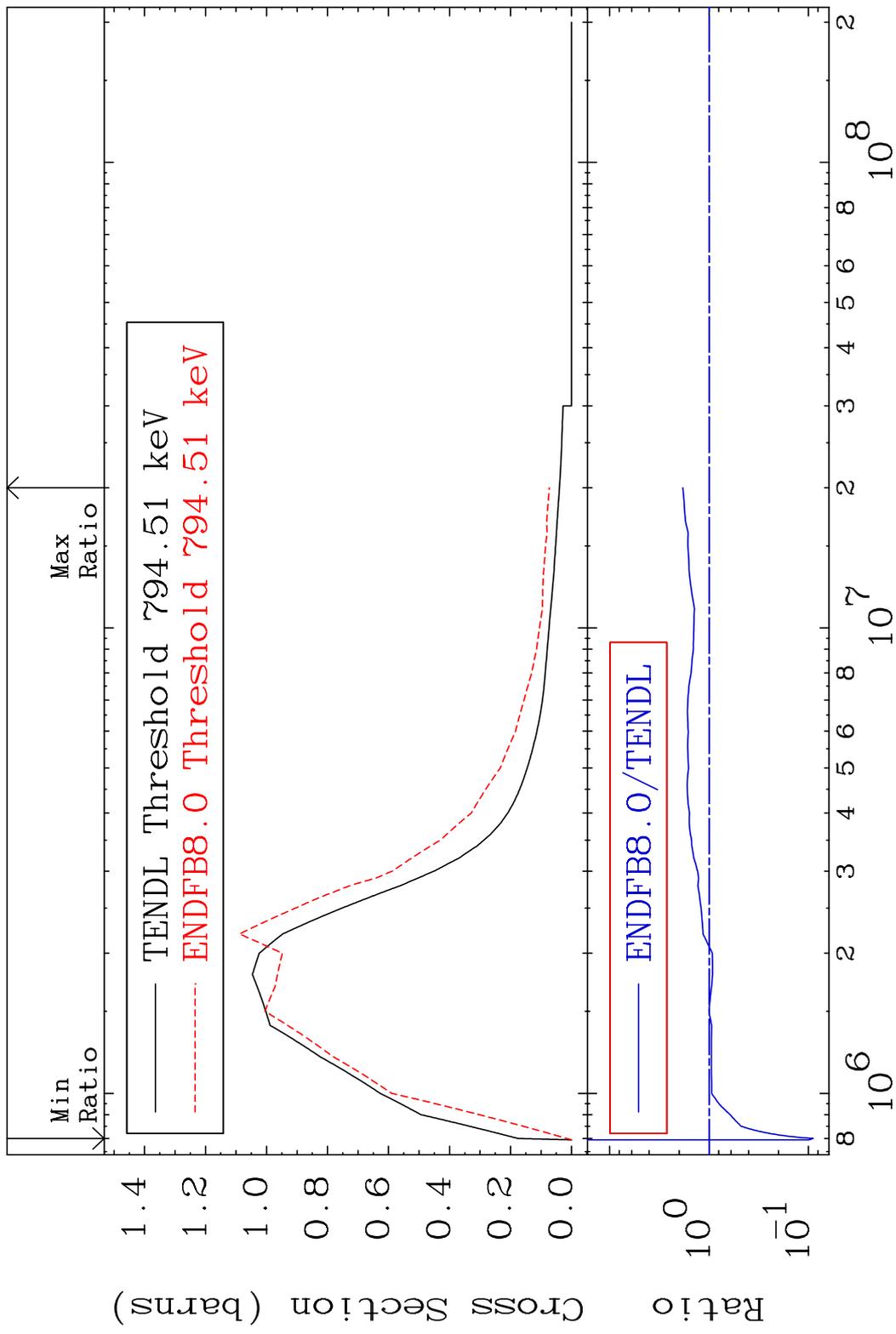
(n,2n) p

58-Ce-138

Cross Section -100.0 To 9999. %

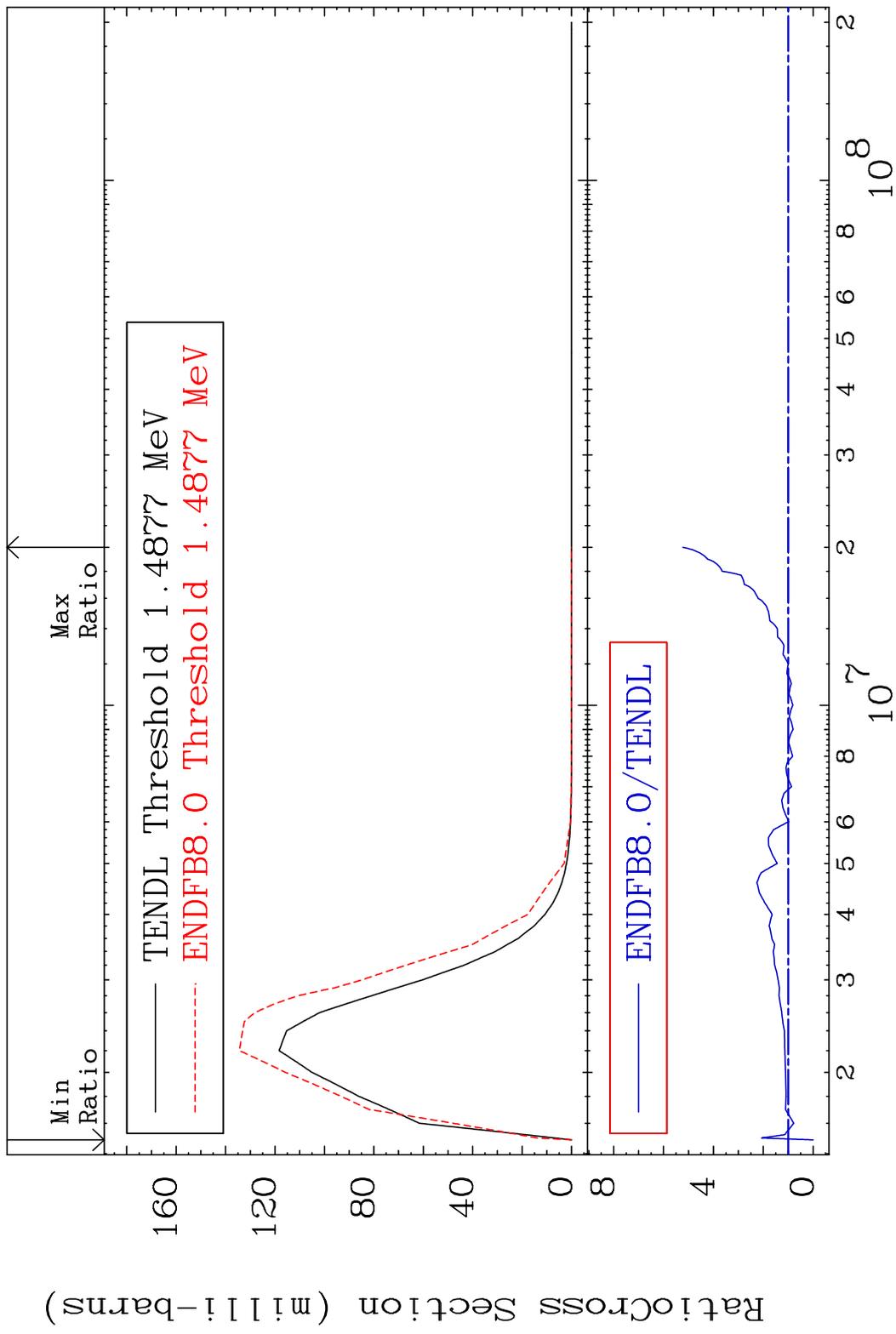


MAT 5831 MT= 51 (n, n') Level 58-Ce-138
 Cross Section -91.03 To 83.47 %



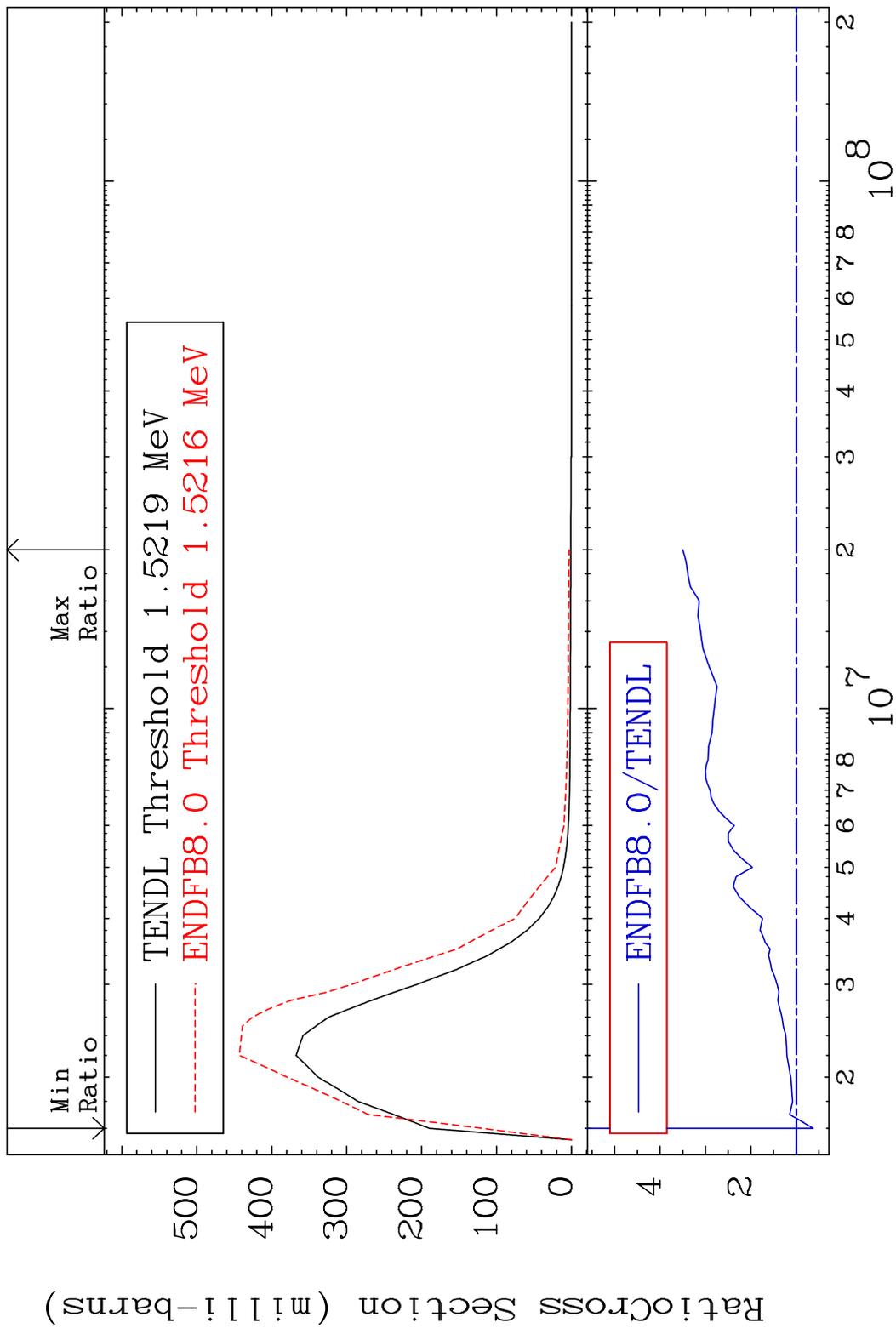
10 Incident Energy (eV) 58-Ce-138

MAT 5831 MT= 52 (n, n') Level 58-Ce-138
 Cross Section -100.0 To 422.8 %

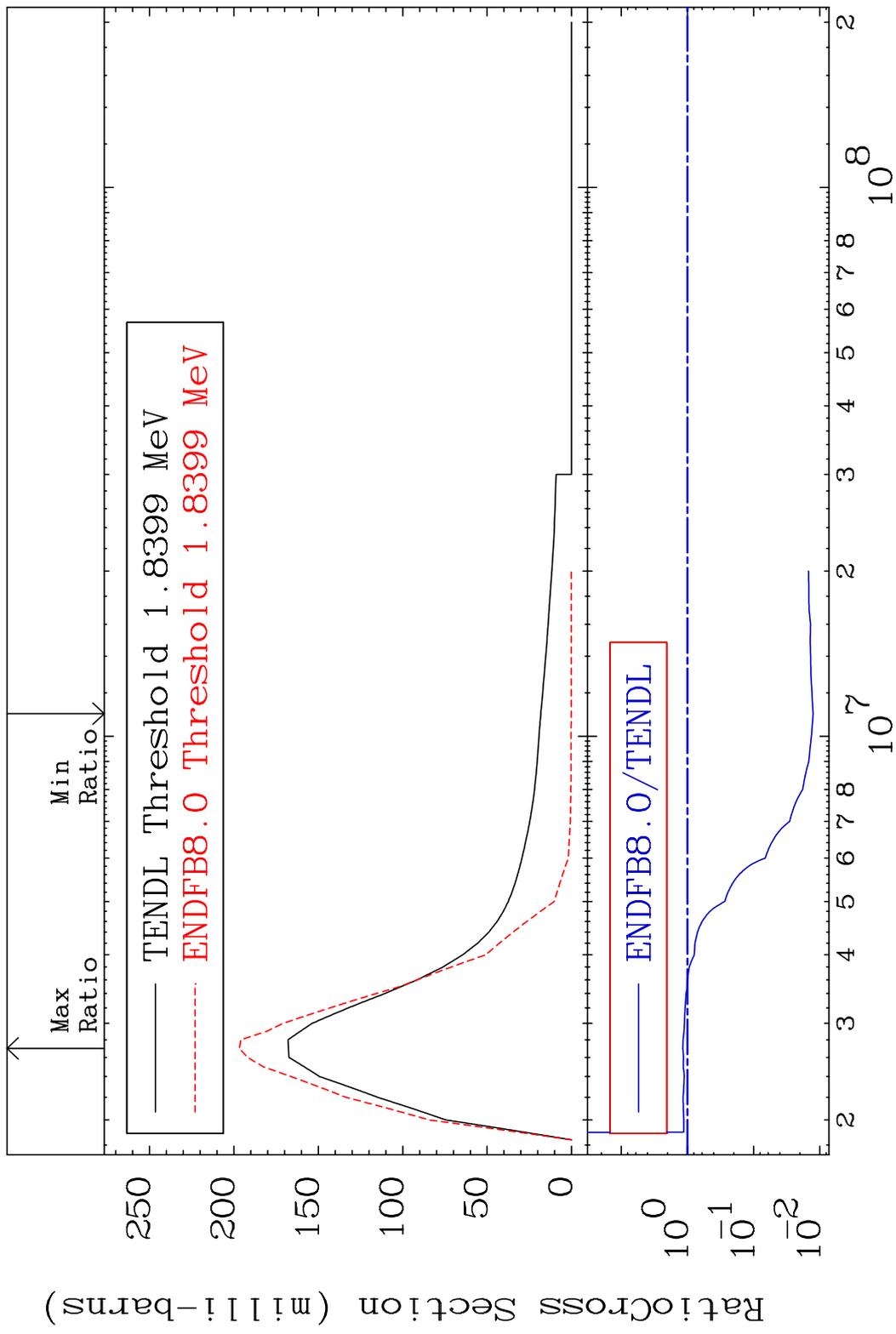


11 Incident Energy (eV) 58-Ce-138

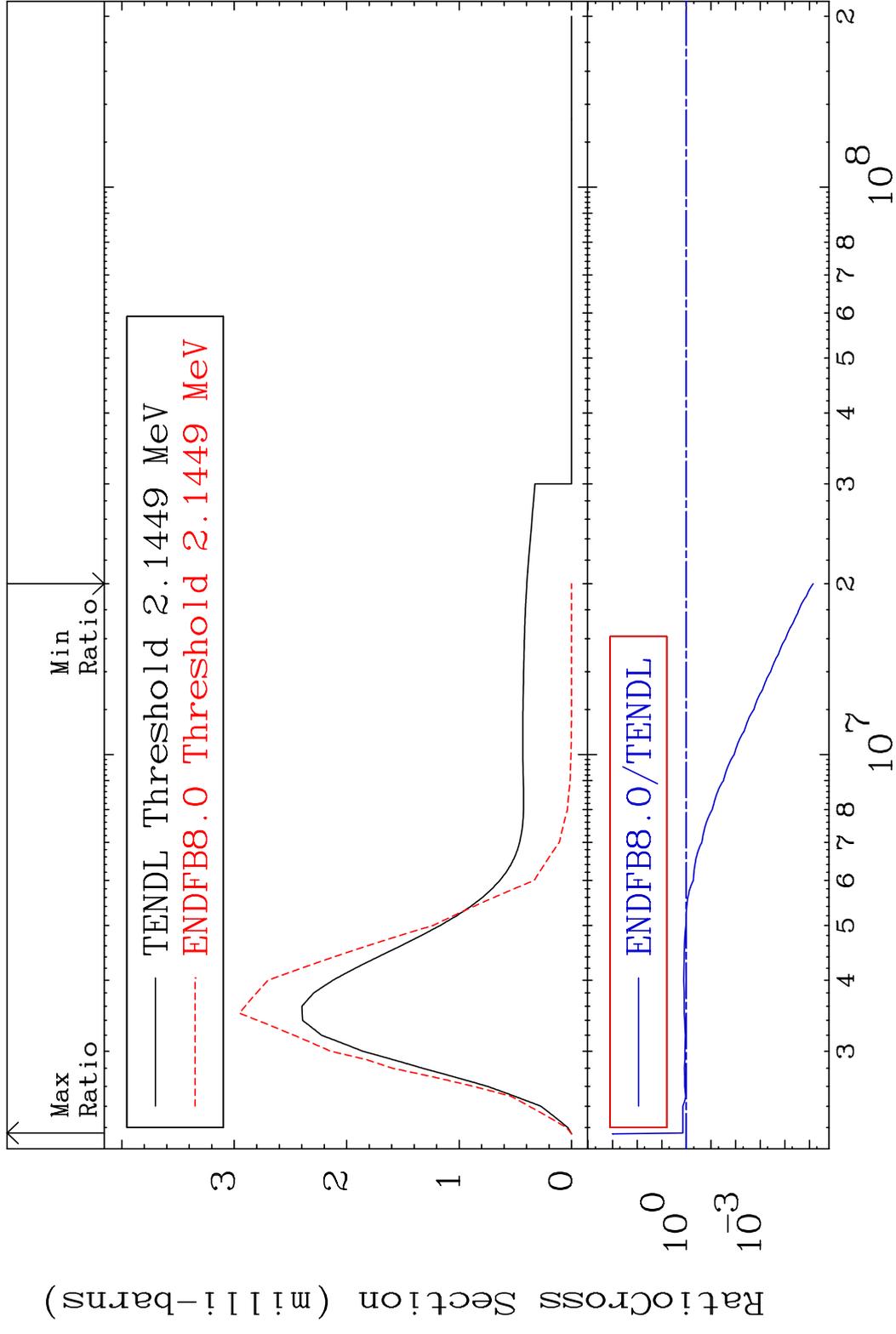
MAT 5831 MT= 53 (n, n') Level 58-Ce-138
 Cross Section -37.19 To 249.8 %



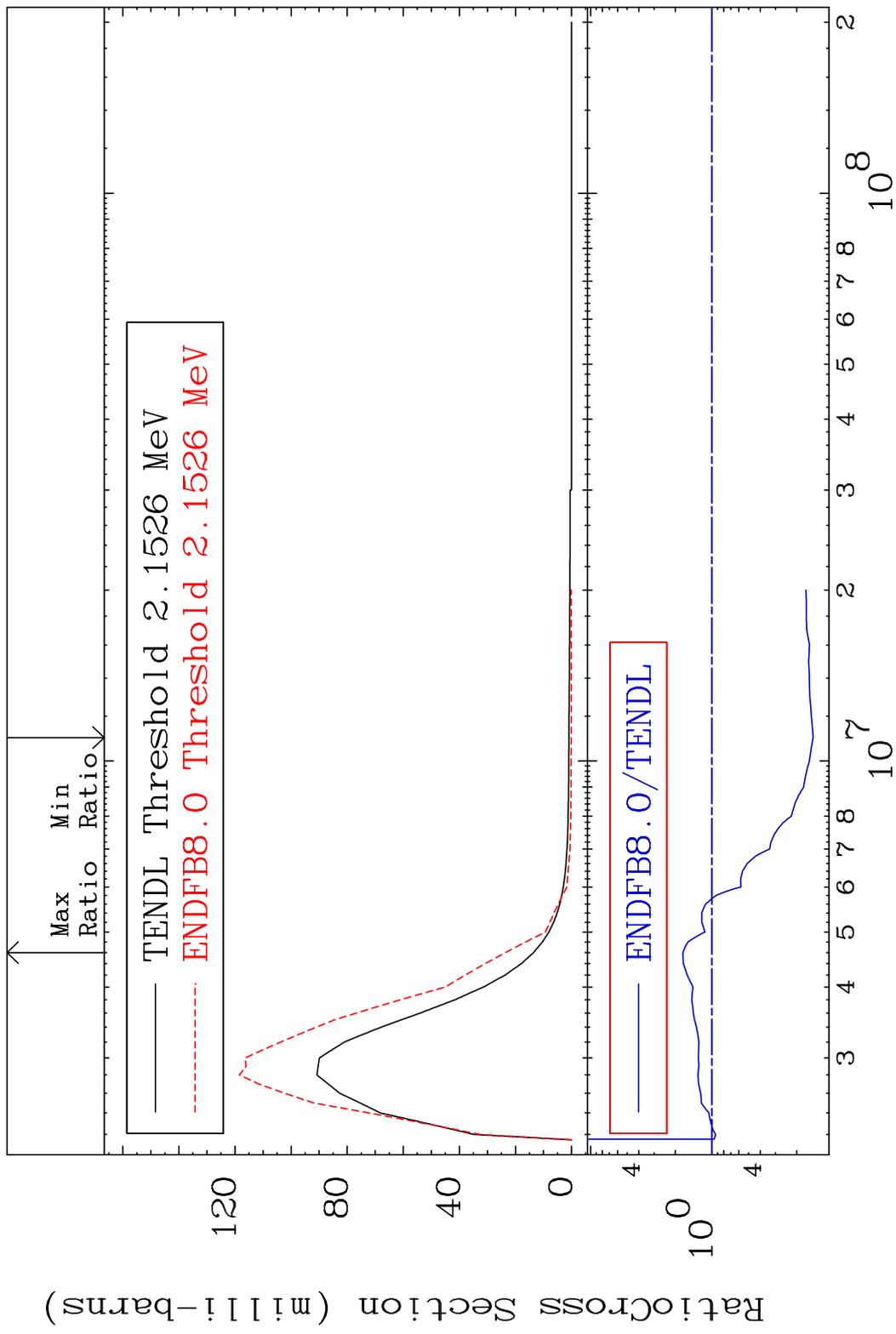
MAT 5831 MT= 54 (n,n') Level 58-Ce-138
 Cross Section -98.74 To 17.35 %



MAT 5831 MT= 55 (n, n') Level 58-Ce-138
 Cross Section -100.0 To 39.47 %

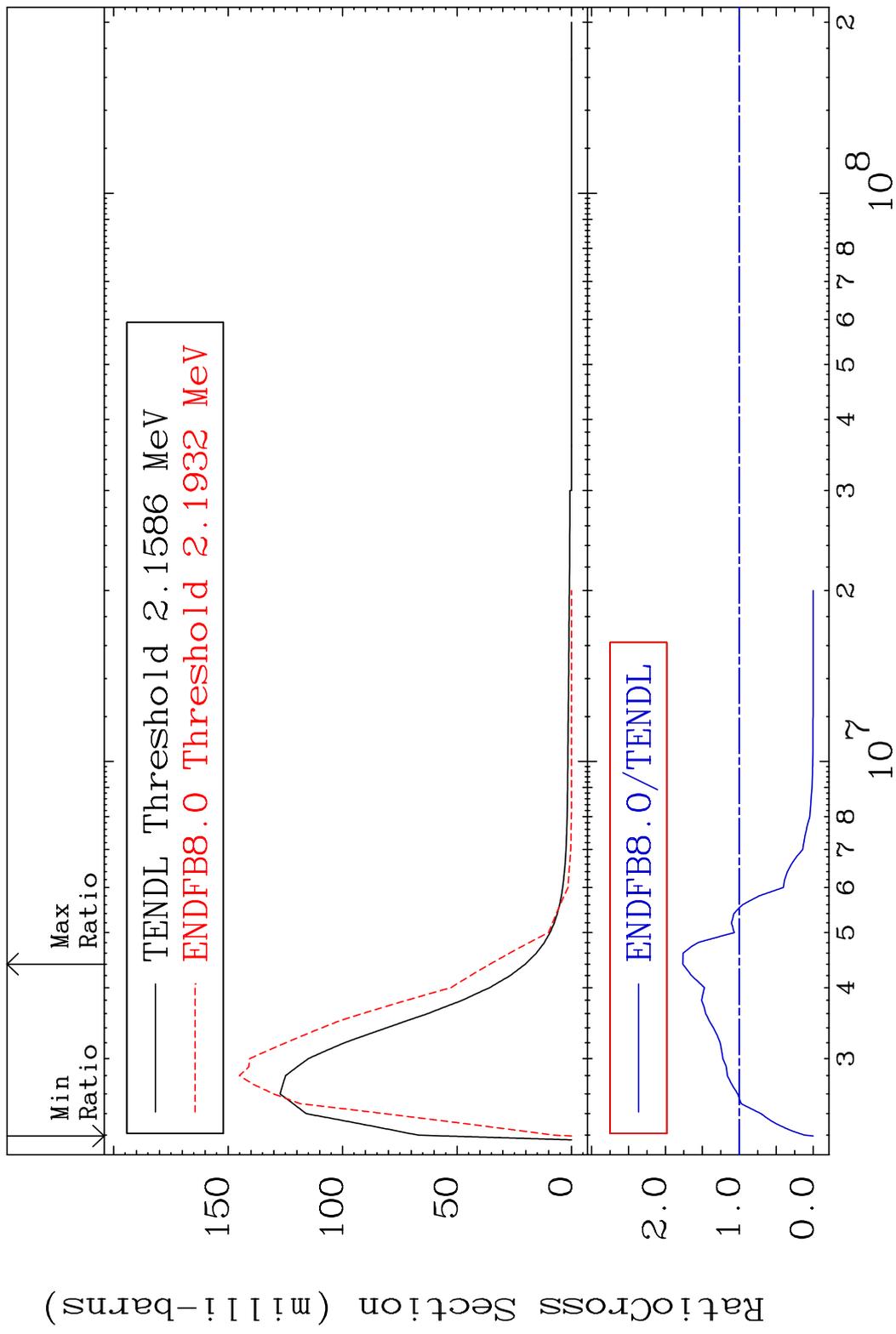


MAT 5831 MT= 56 (n,n') Level 58-Ce-138
 Cross Section -85.33 To 73.71 %

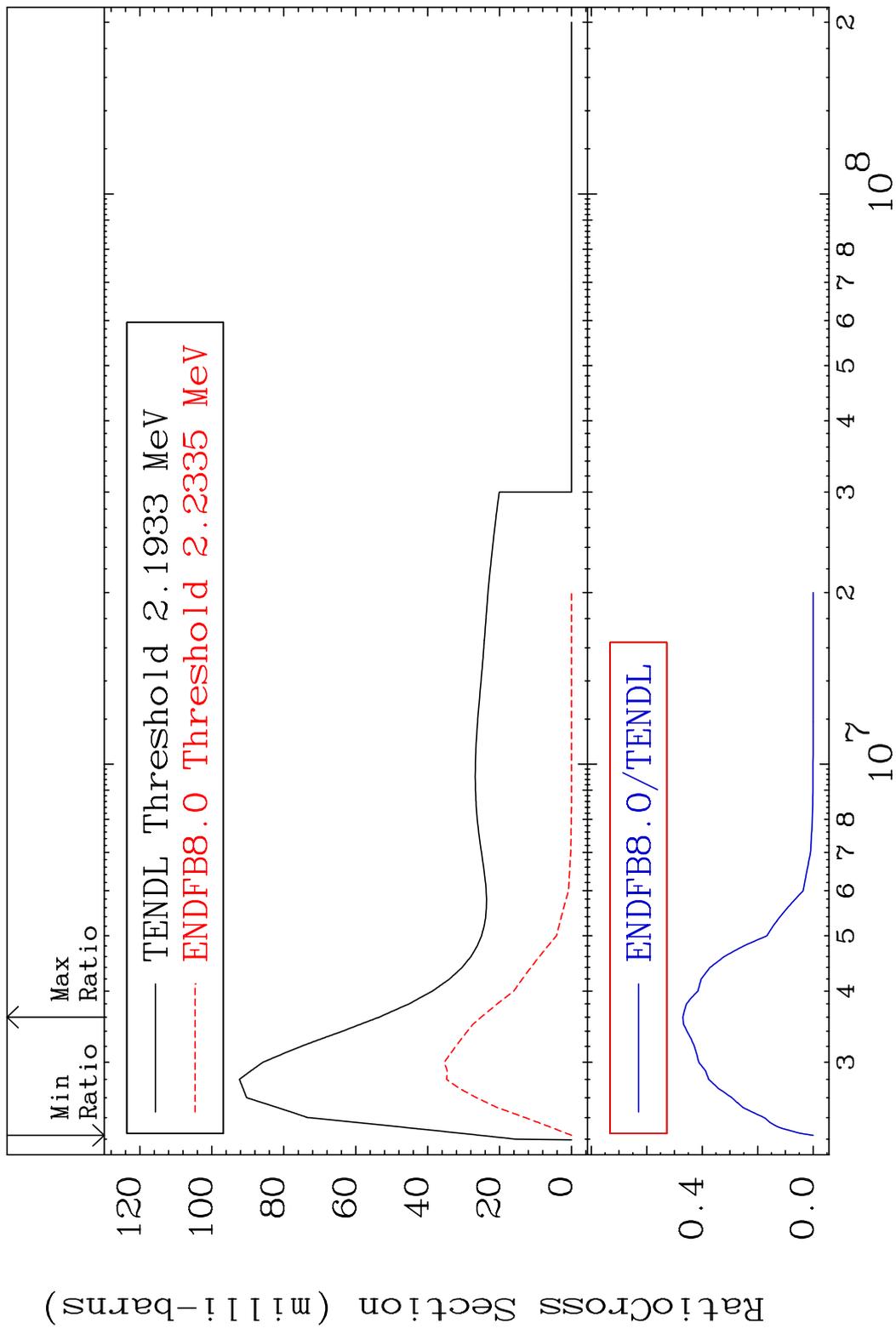


15 58-Ce-138

MAT 5831 MT= 57 (n,n') Level 58-Ce-138
 Cross Section -100.0 To 76.44 %

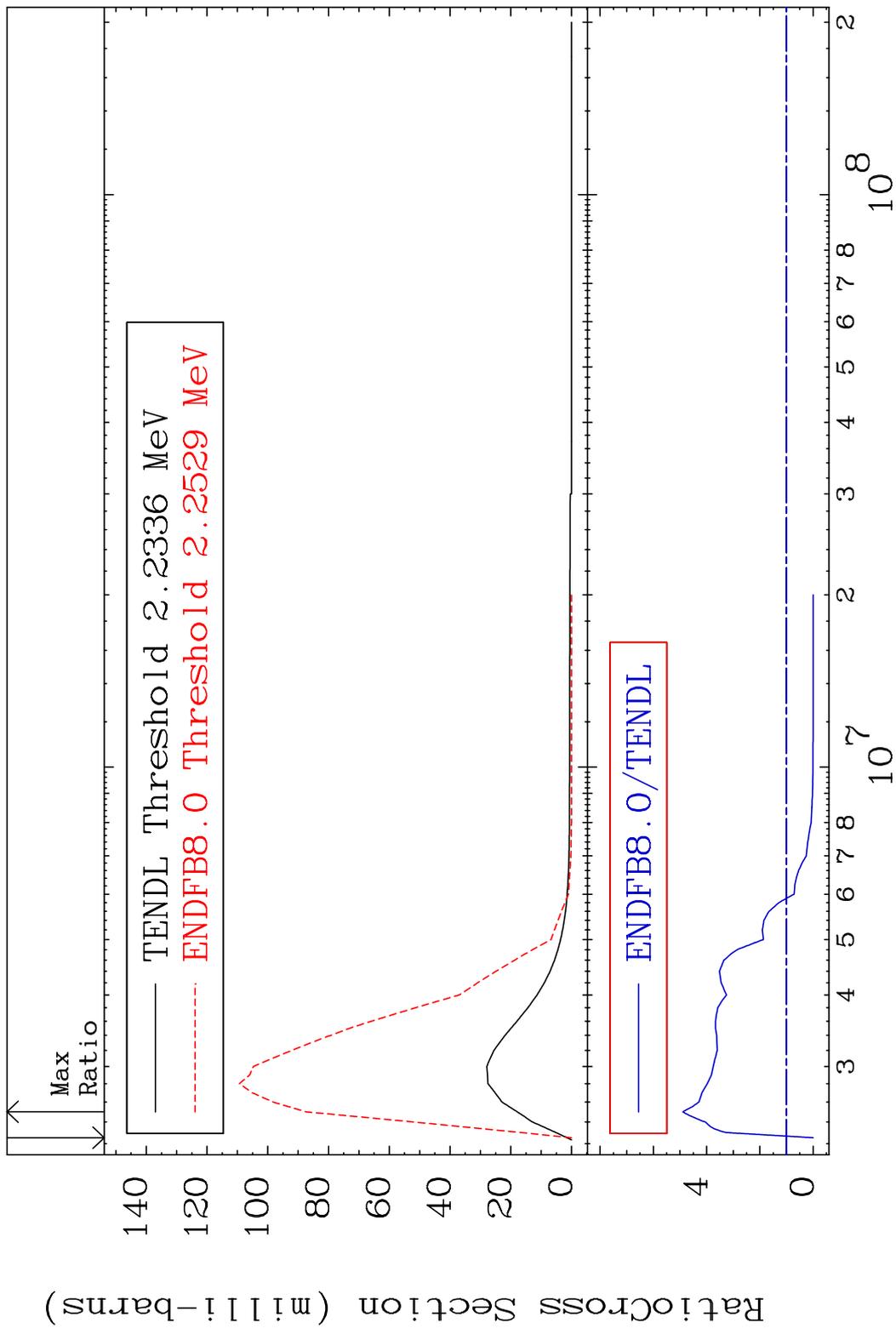


MAT 5831 MT= 58 (n, n') Level 58-Ce-138
 Cross Section -100.0 To -53.02%

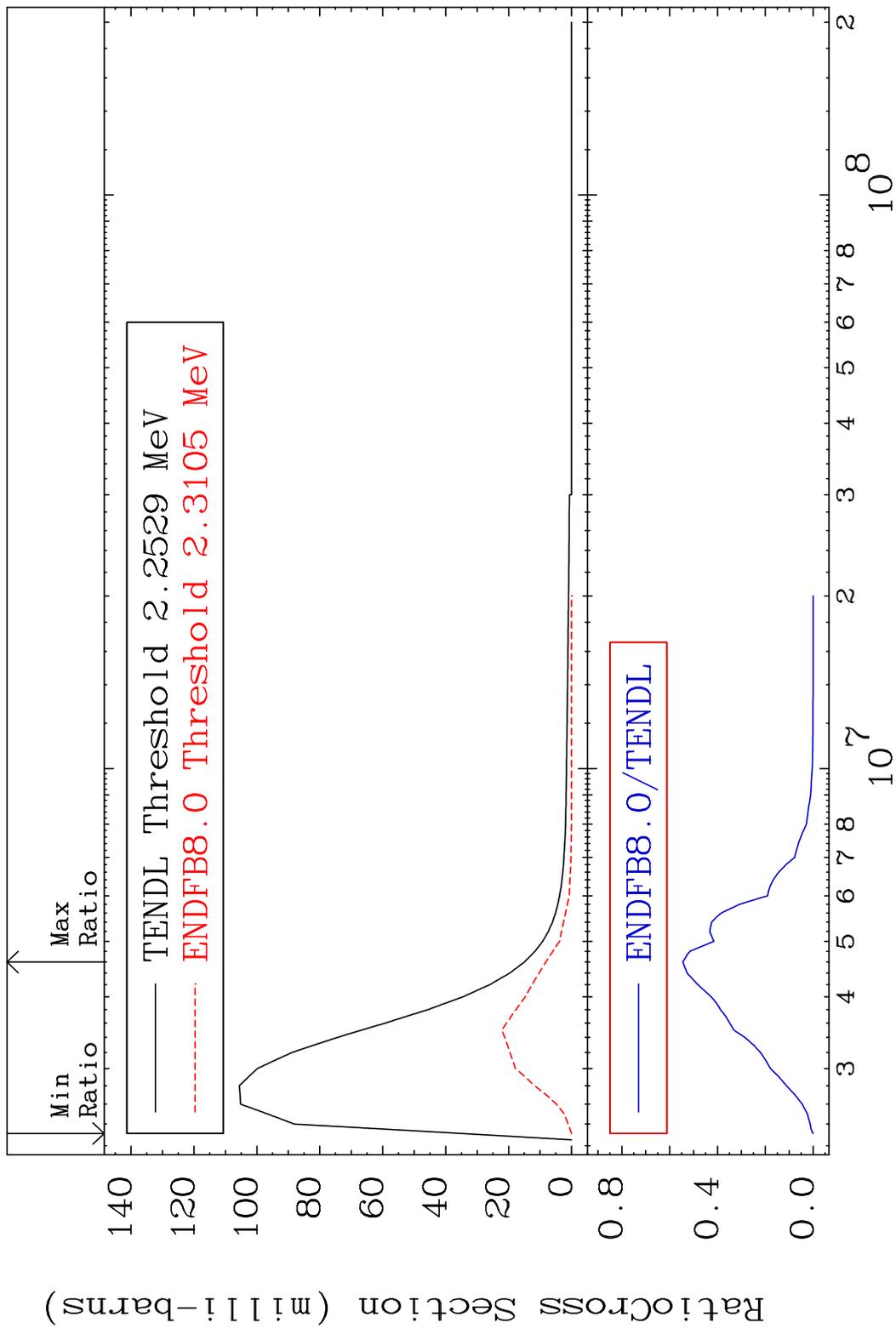


17 Incident Energy (eV) 58-Ce-138

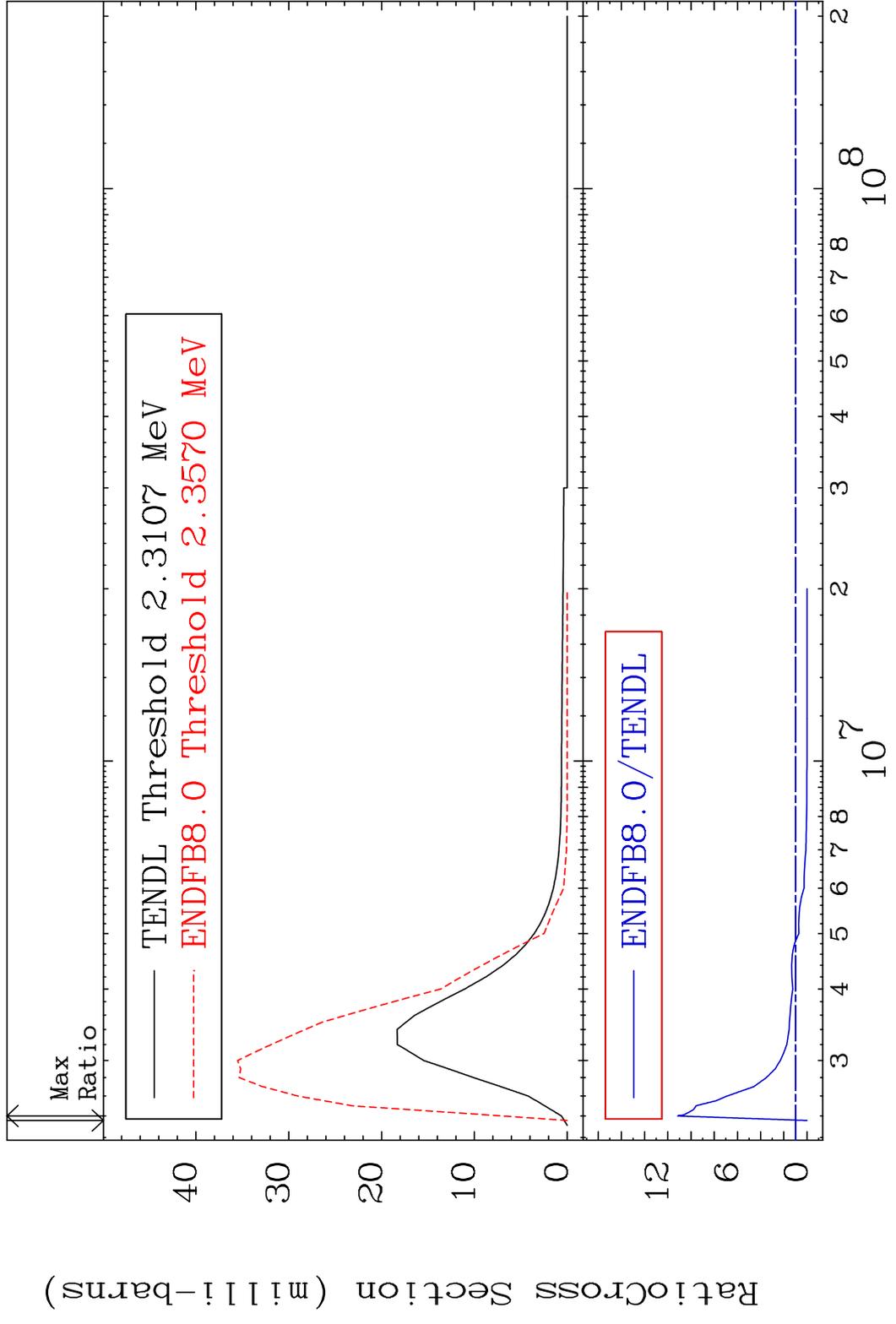
MAT 5831 MT= 59 (n,n') Level 58-Ce-138
 Cross Section -100.0 To 389.3 %



MAT 5831 MT= 60 (n,n') Level 58-Ce-138
 Cross Section -100.0 To -45.50%

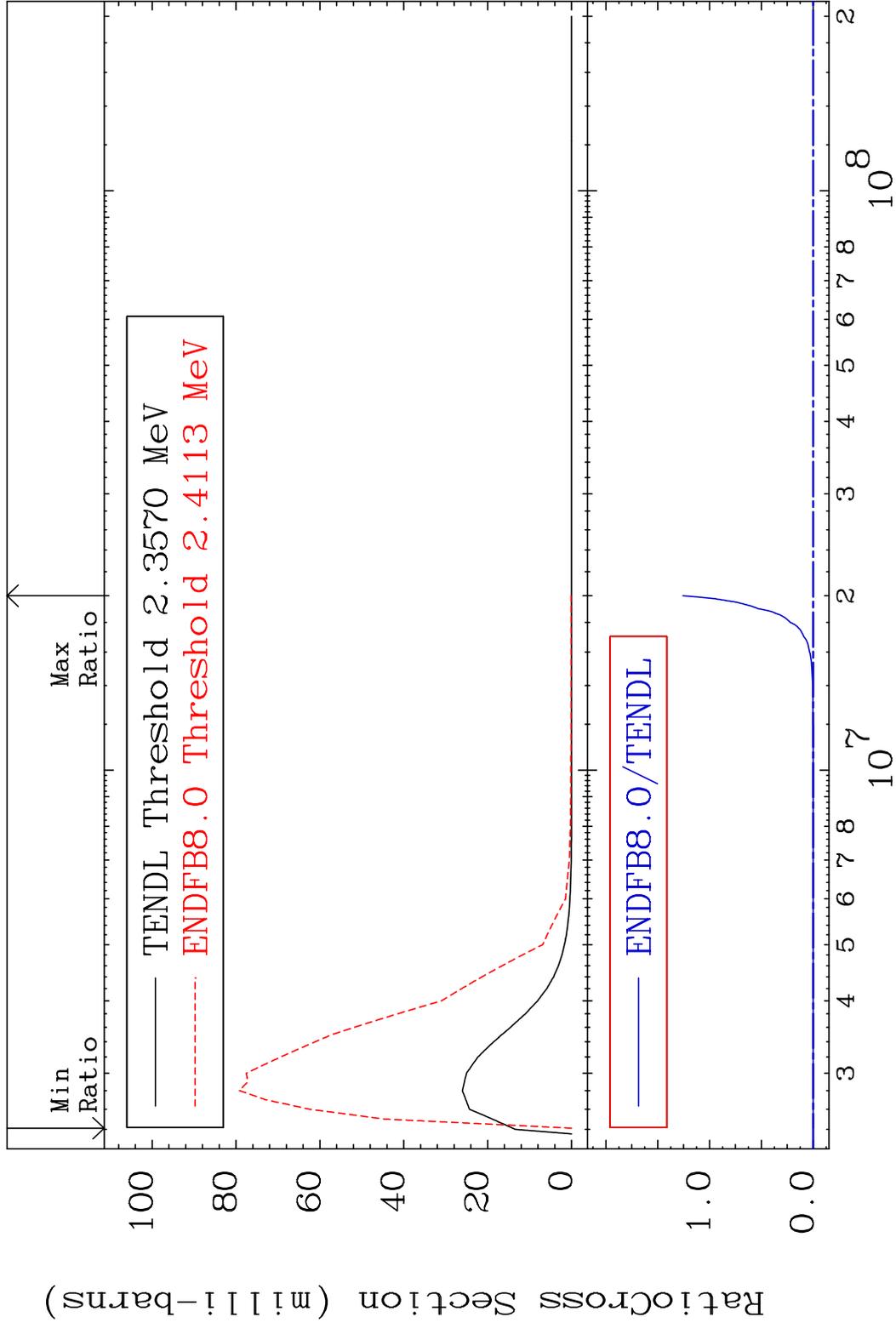


MAT 5831 MT= 61 (n,n') Level 58-Ce-138
 Cross Section -100.0 To 1015. %

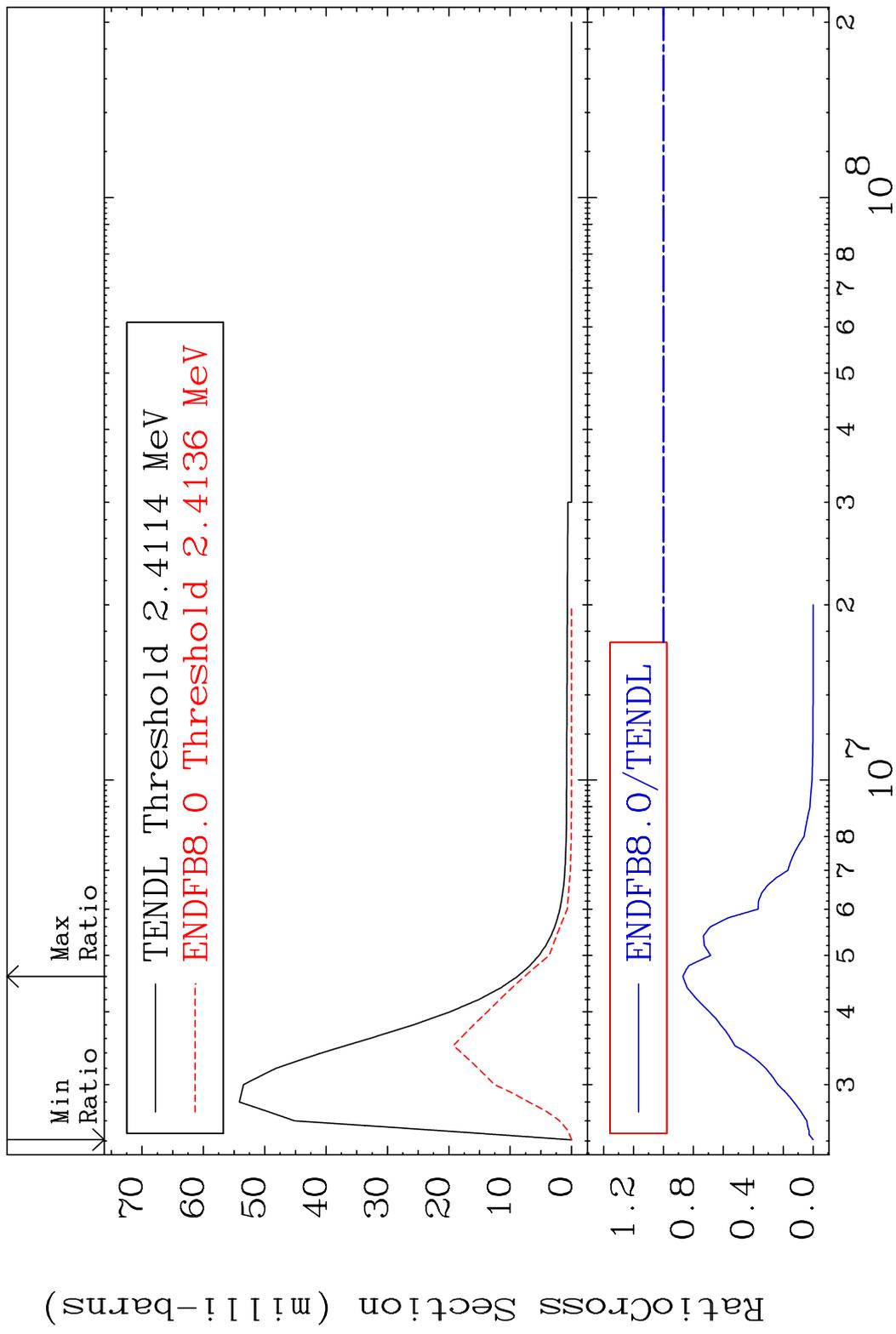


20 Incident Energy (eV) 58-Ce-138

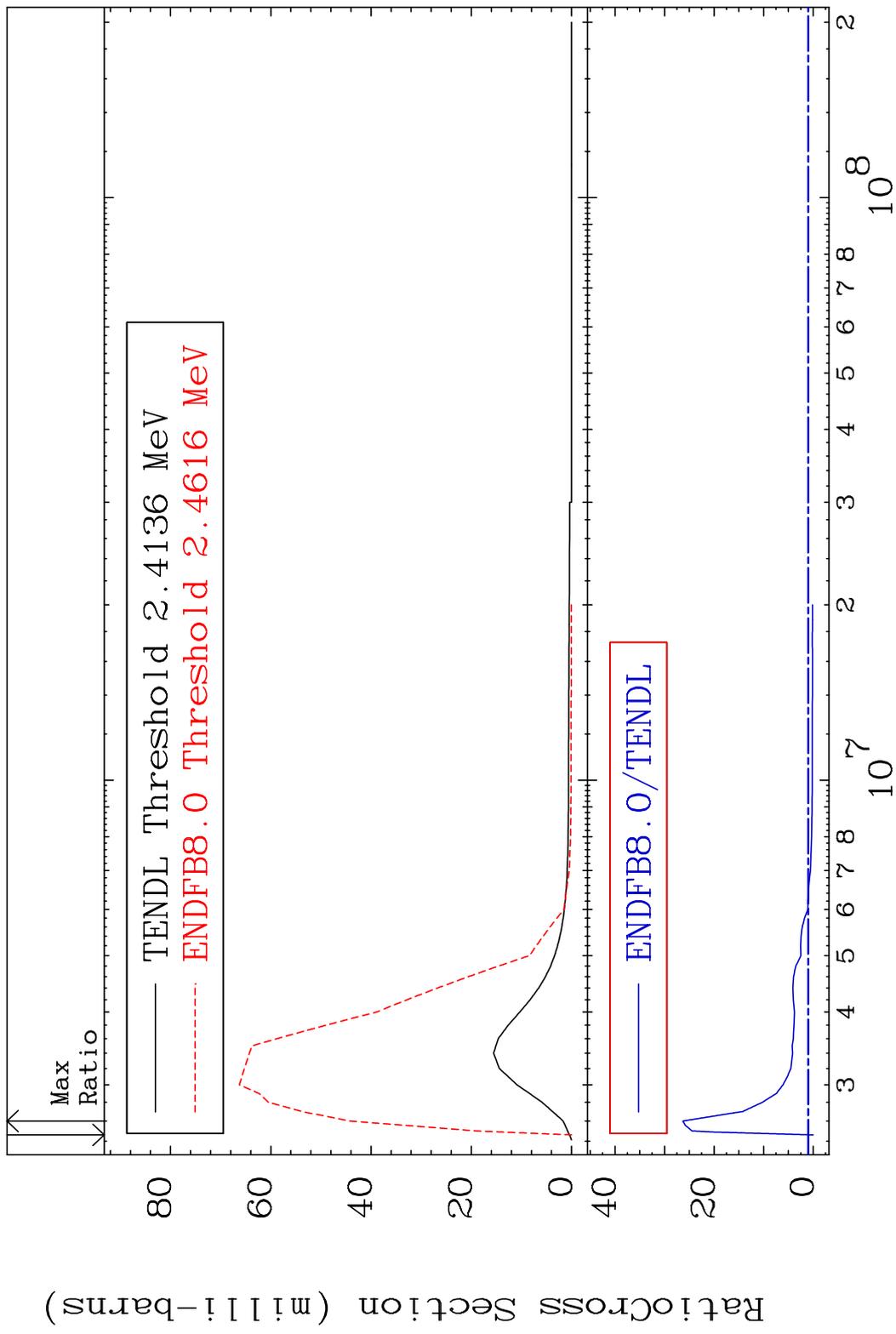
MAT 5831 MT= 62 (n, n') Level 58-Ce-138
 Cross Section -100.0 To 9999. %



MAT 5831 MT= 63 (n,n') Level 58-Ce-138
 Cross Section -100.0 To -12.92%



MAT 5831 MT= 64 (n,n') Level 58-Ce-138
 Cross Section -100.0 To 2530. %

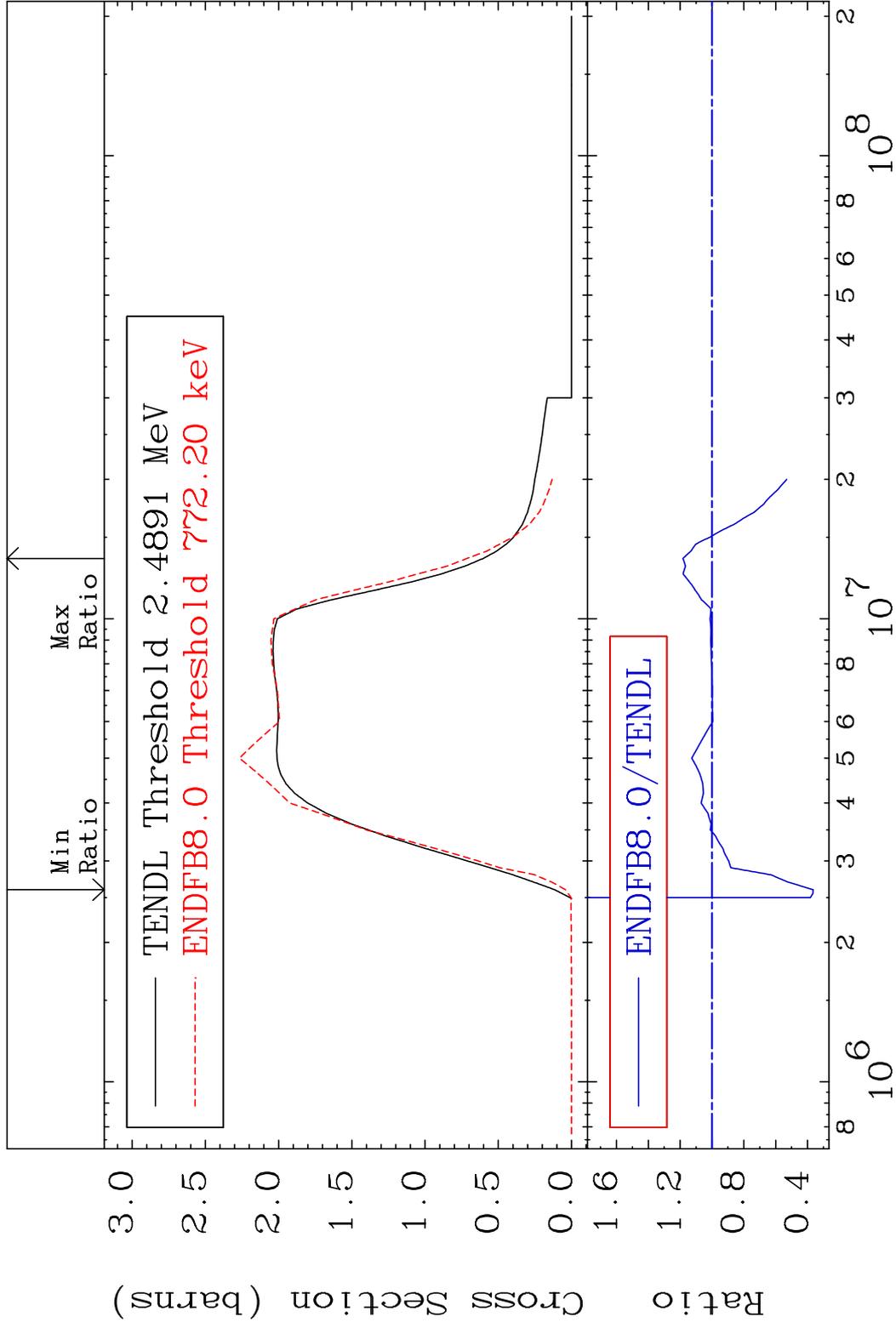


MAT 5831

(n, n') Continuum

58-Ce-138

Cross Section -63.53 To 18.32 %



24

Incident Energy (eV)

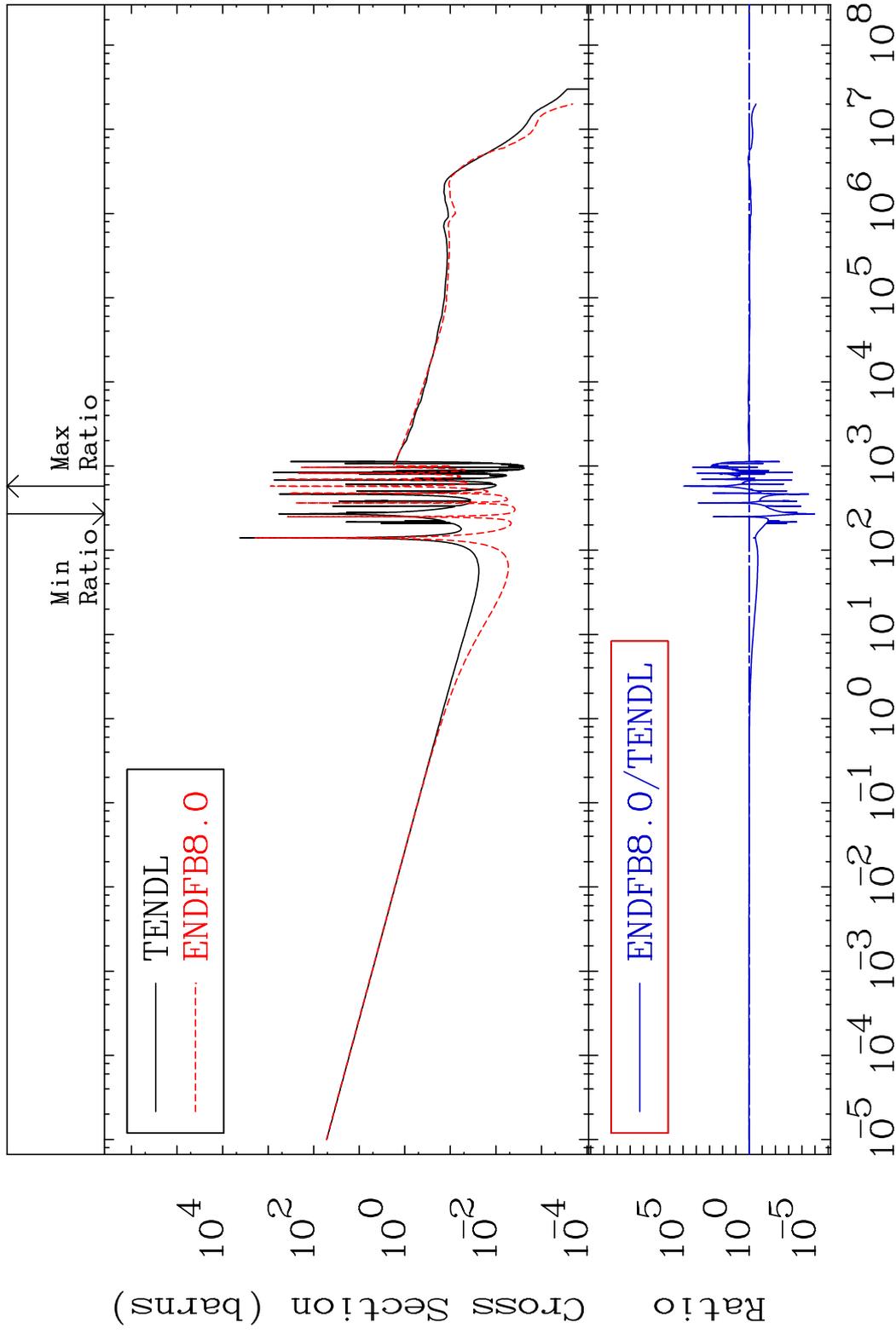
58-Ce-138

MAT 5831

(n, γ)

58-Ce-138

Cross Section -100.0 To 9999. %



25

Incident Energy (eV)

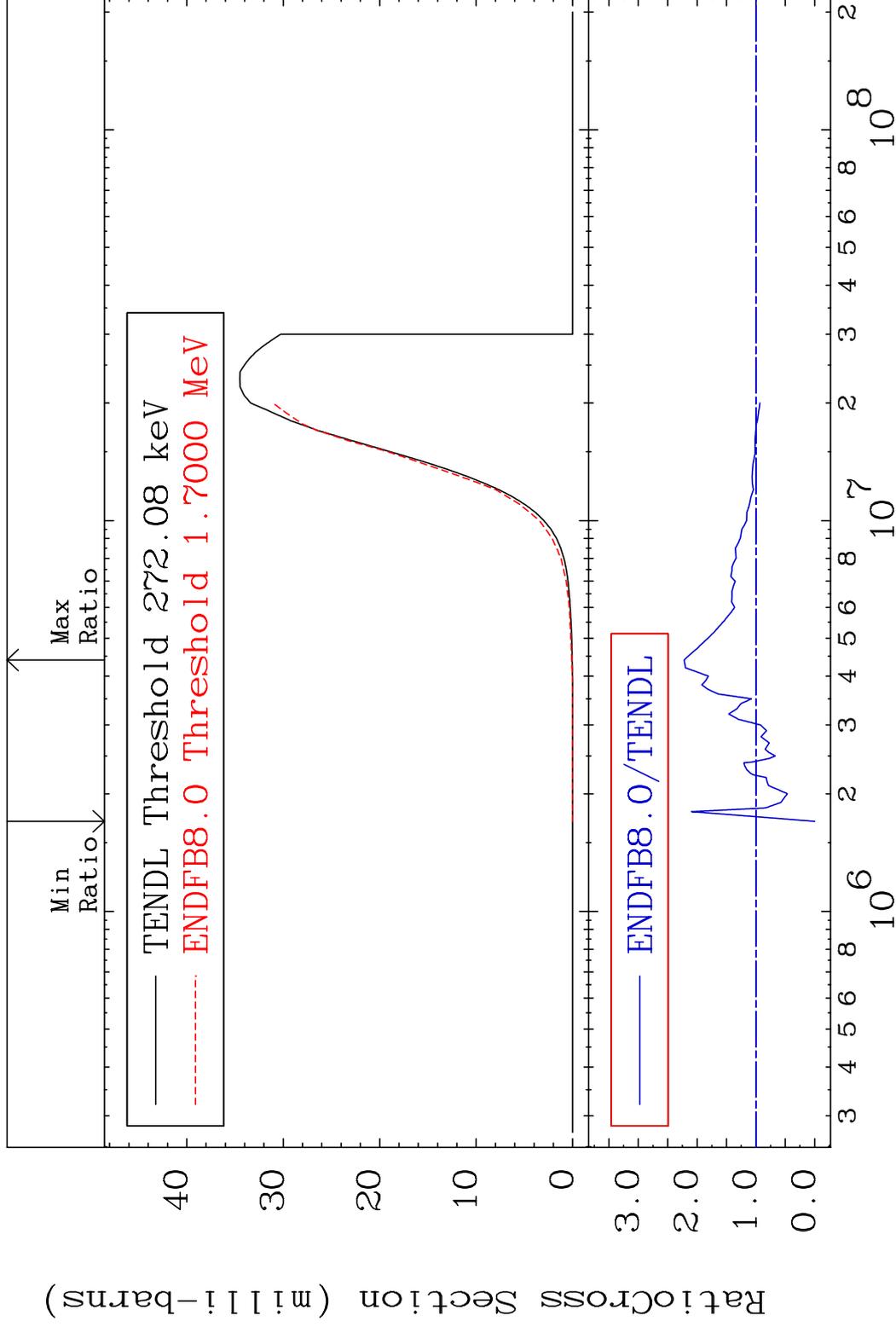
58-Ce-138

MAT 5831

(n, p)

58-Ce-138

Cross Section -100.0 To 122.0 %



26

Incident Energy (eV)

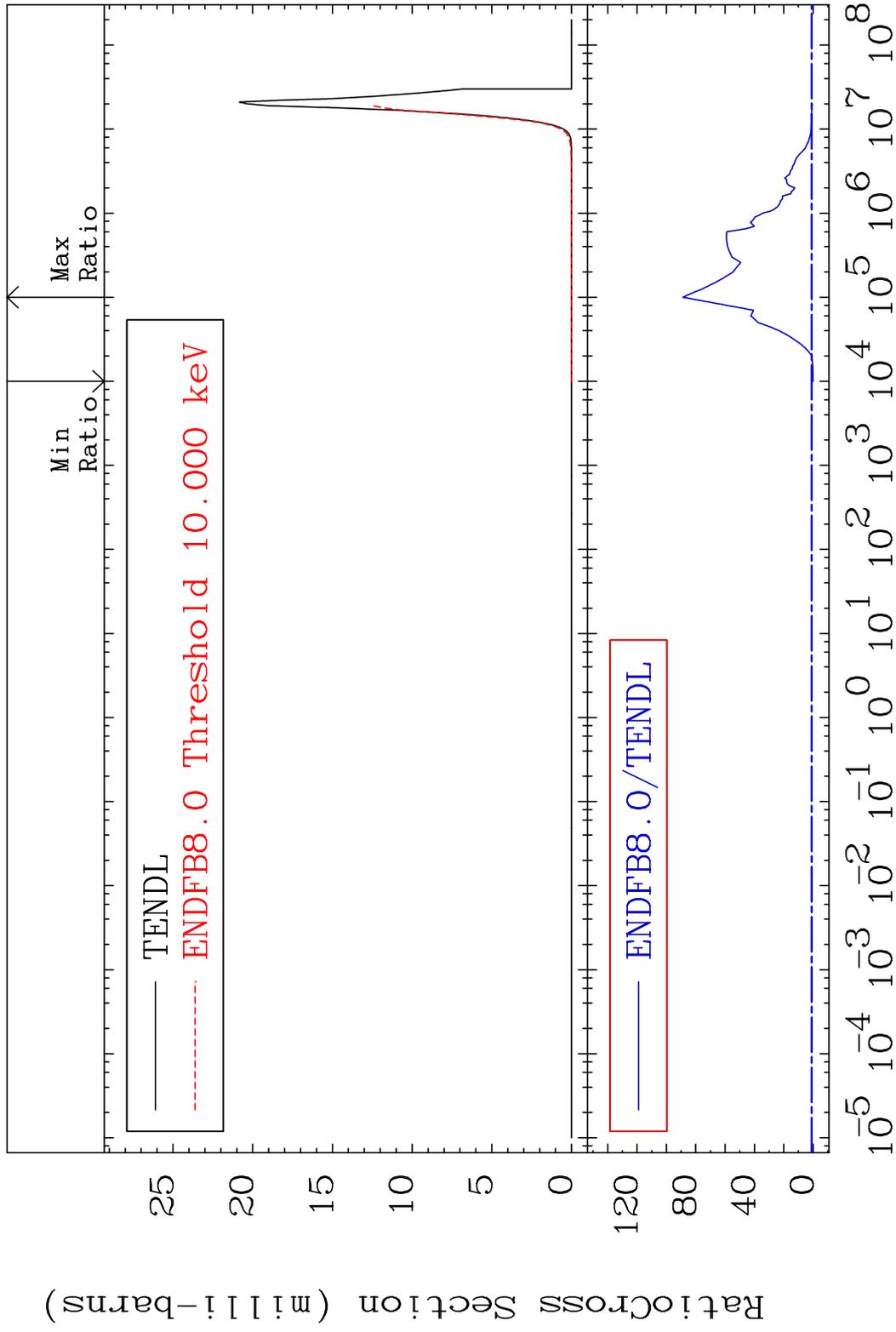
58-Ce-138

MAT 5831

(n, α)

58-Ce-138

Cross Section -100.0 To 8781. %



27

Incident Energy (eV)

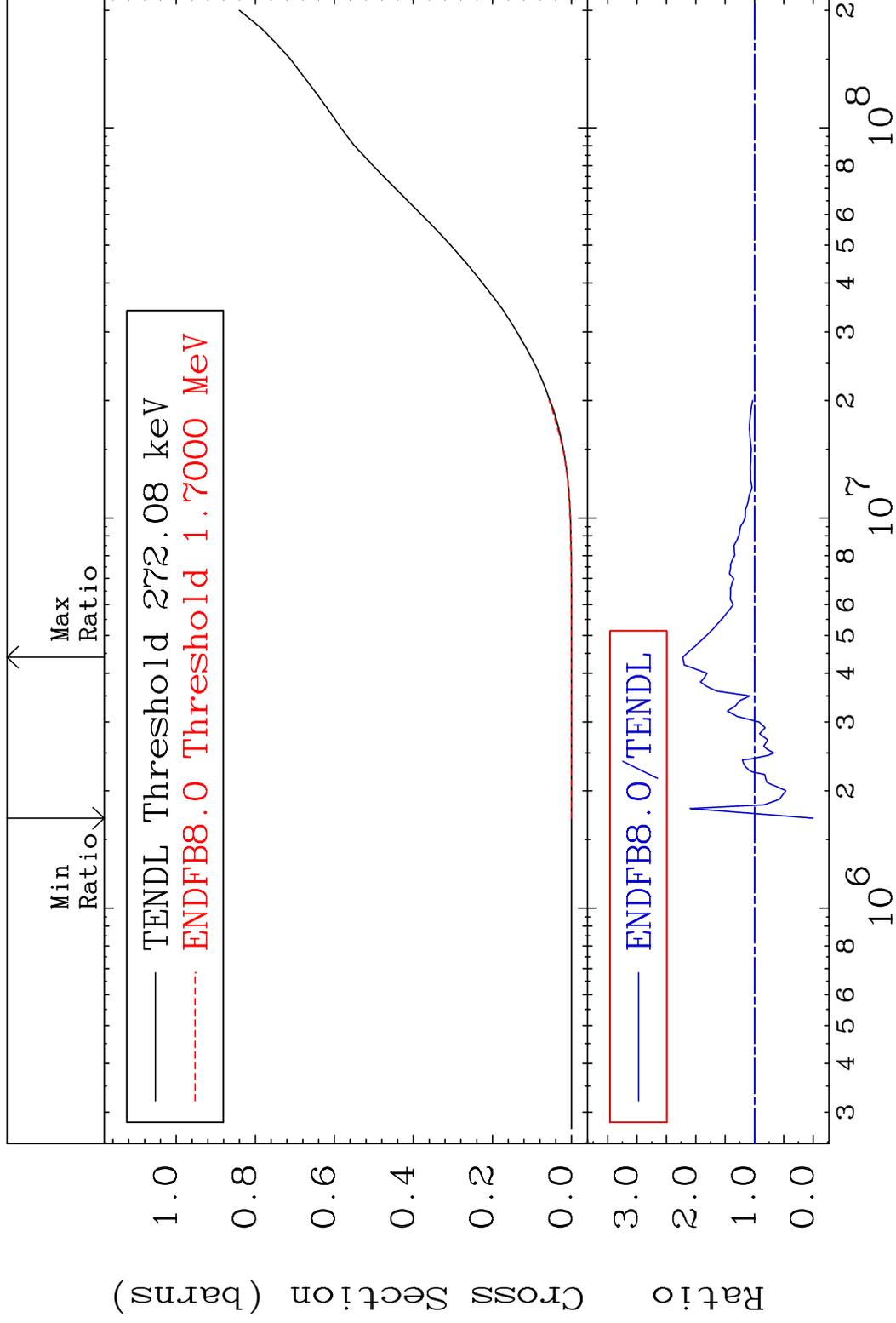
58-Ce-138

MAT 5831

Hydrogen Production

58-Ce-138

Cross Section -100.0 To 122.0 %



28

Incident Energy (eV)

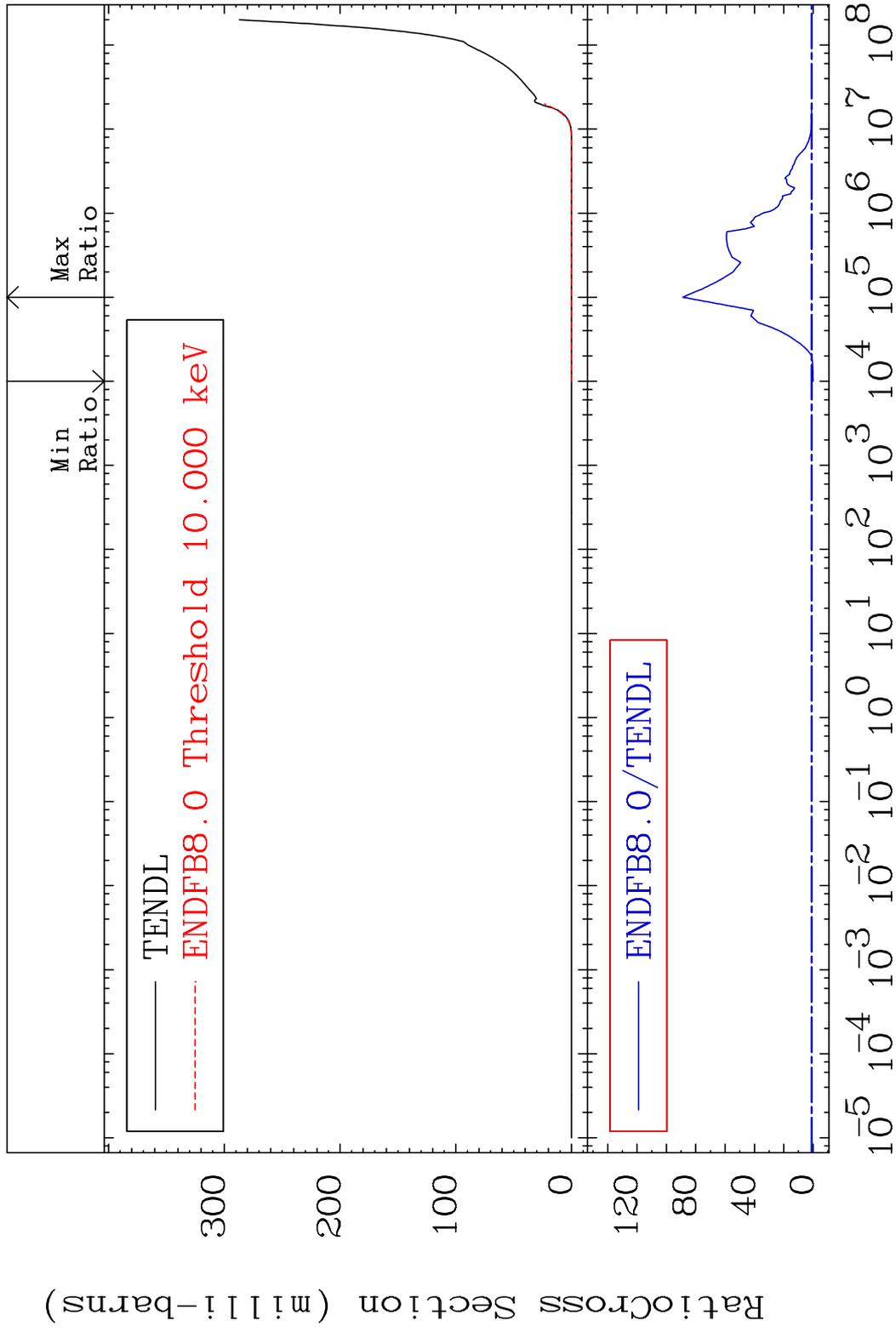
58-Ce-138

MAT 5831

He-4 Production

58-Ce-138

Cross Section -100.0 To 8781. %

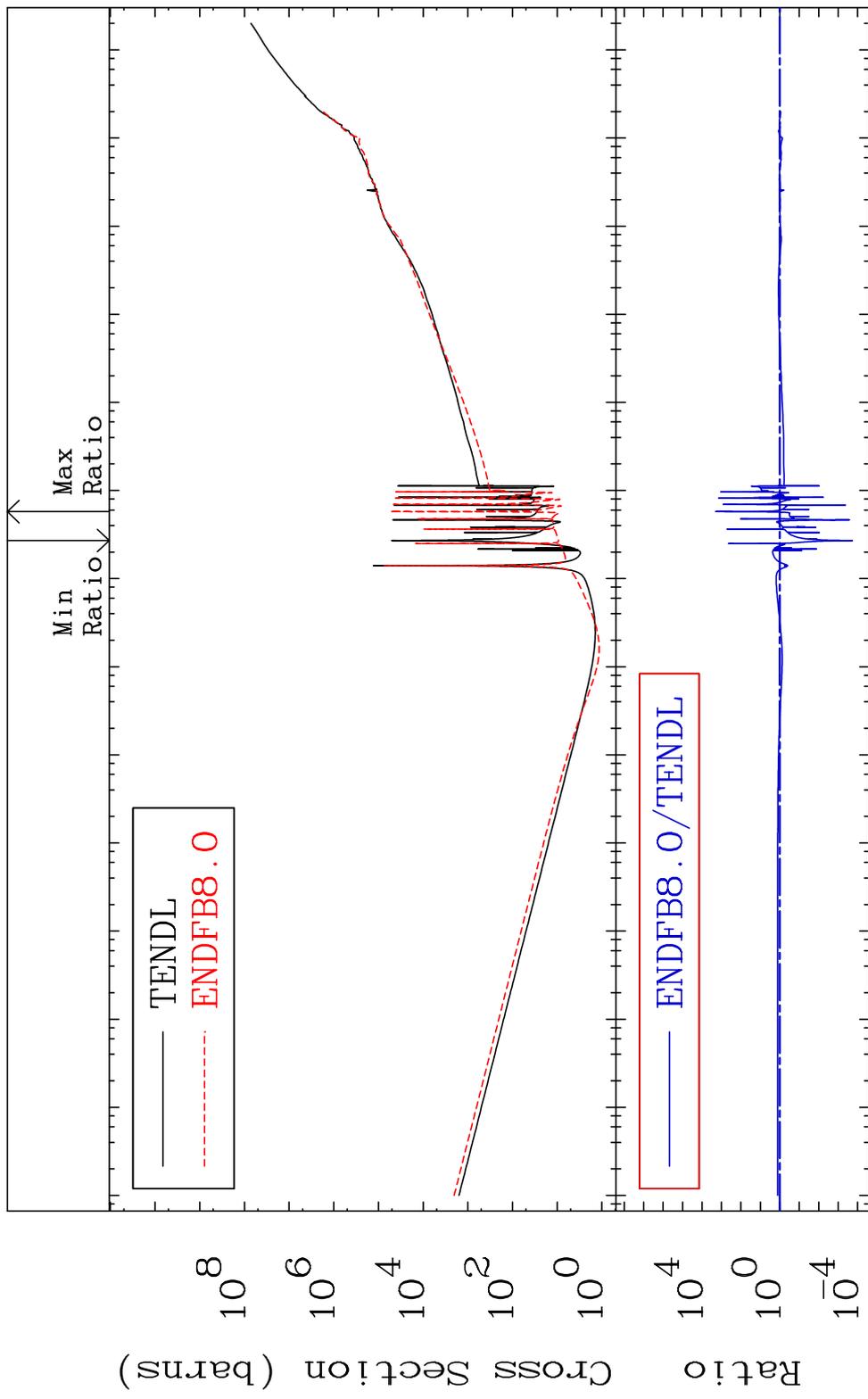


29

Incident Energy (eV)

58-Ce-138

MAT 5831 Kerma total (eV-barns) 58-Ce-138
 Cross Section -99.98 To 9999. %



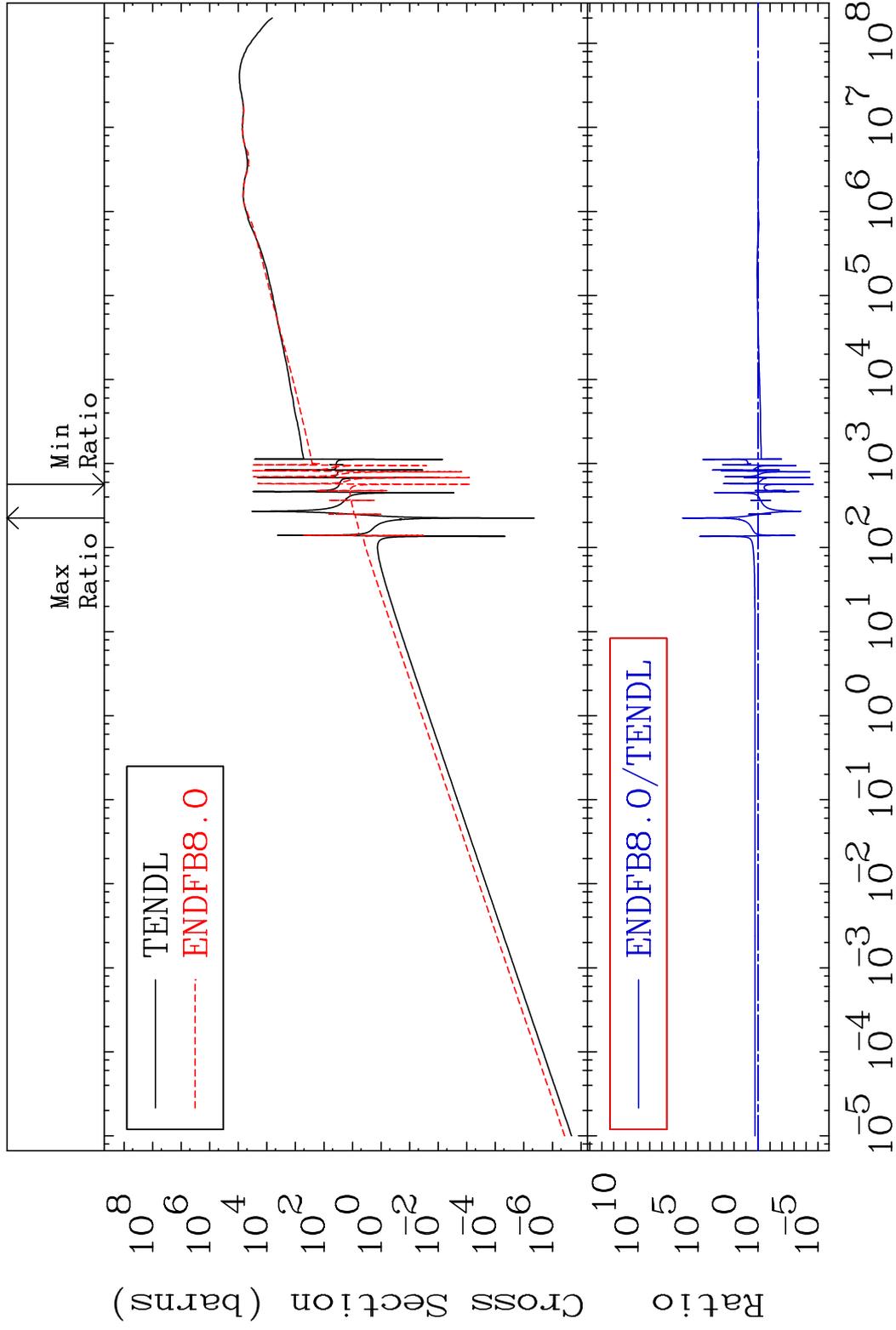
30 Incident Energy (eV) 58-Ce-138

MAT 5831

58-Ce-138

Kerma elastic

Cross Section -100.0 To 9999. %

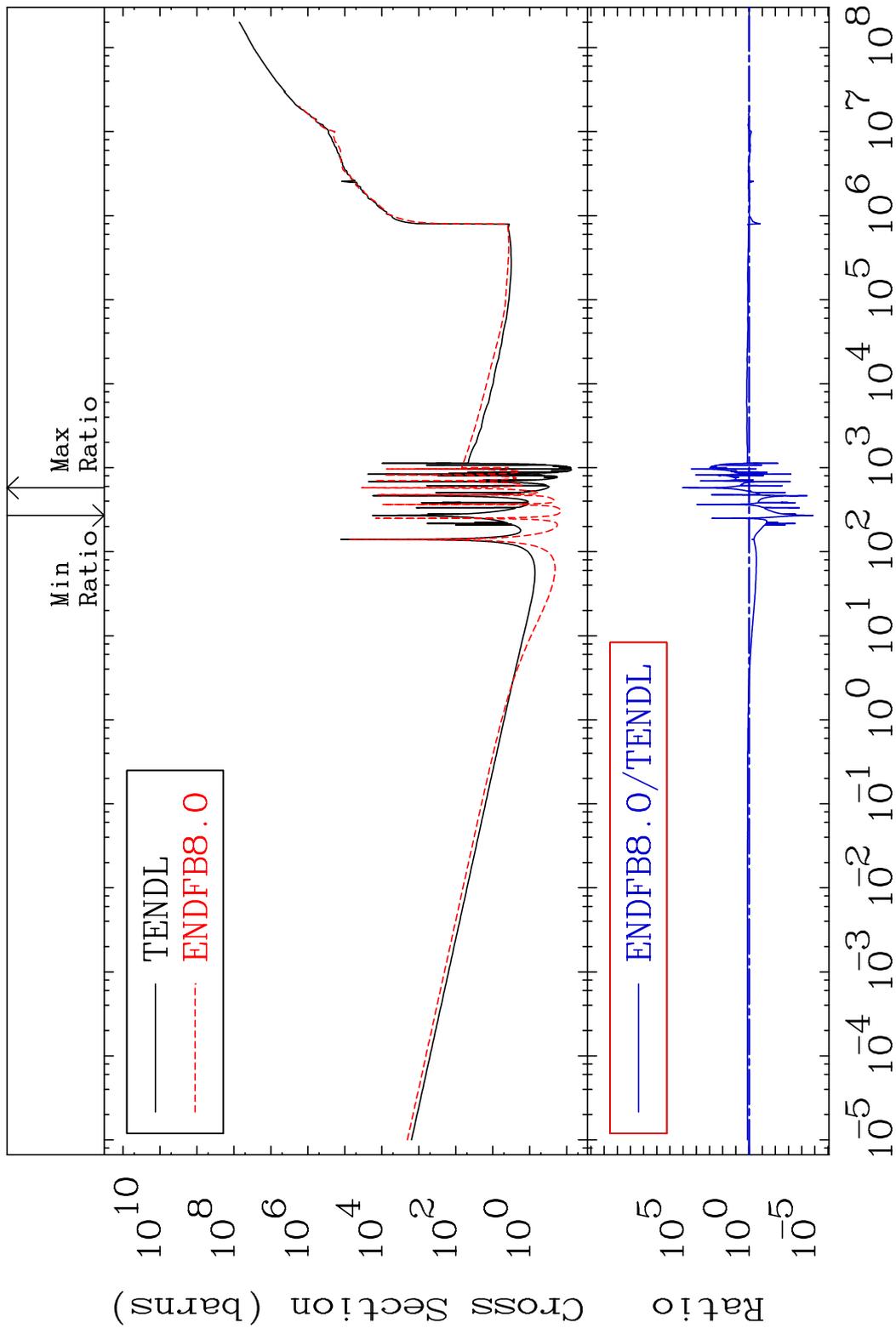


31

Incident Energy (eV)

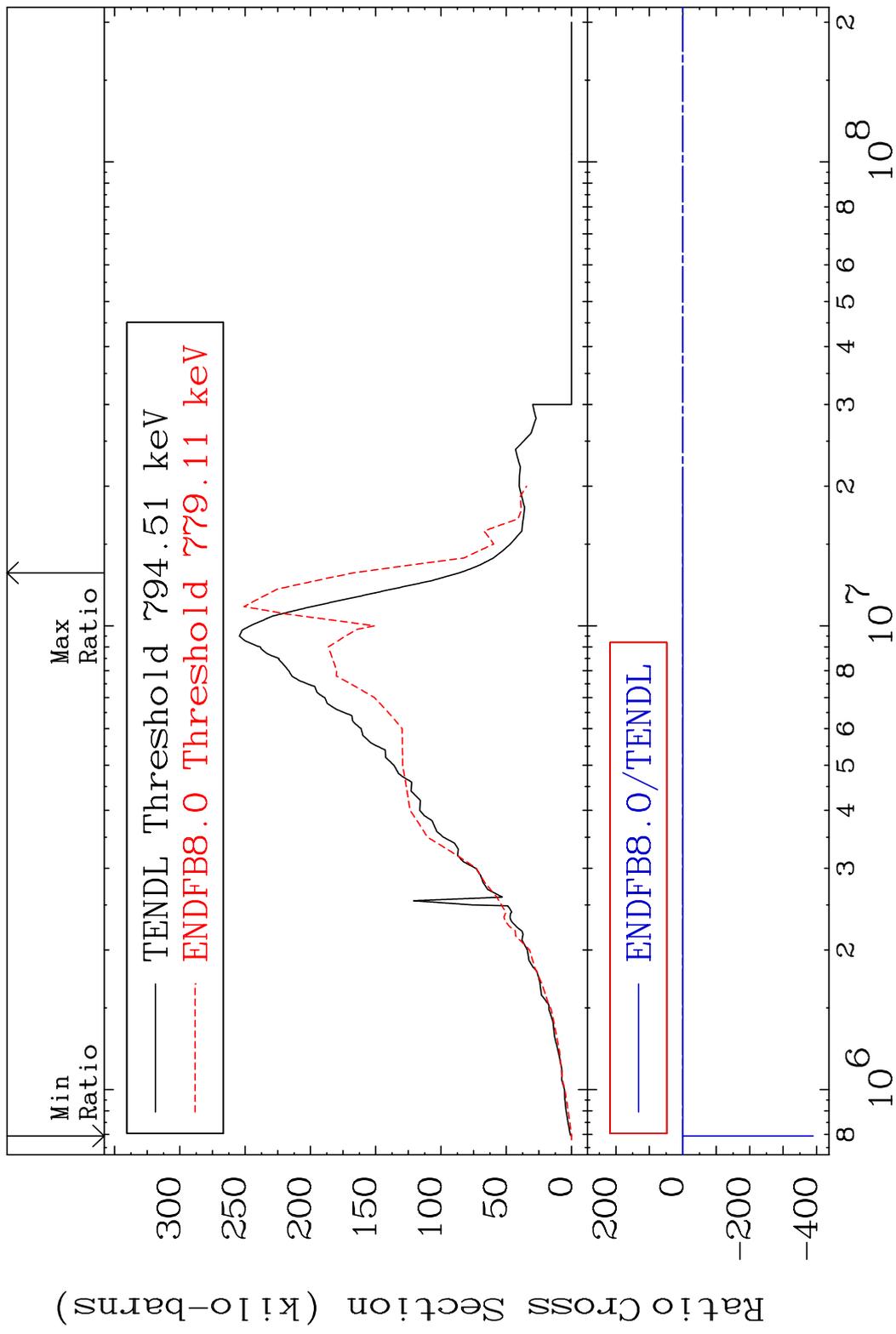
58-Ce-138

MAT 5831 Kerma non-elastic (all but mt2) 58-Ce-138
 Cross Section -100.0 To 9999. %

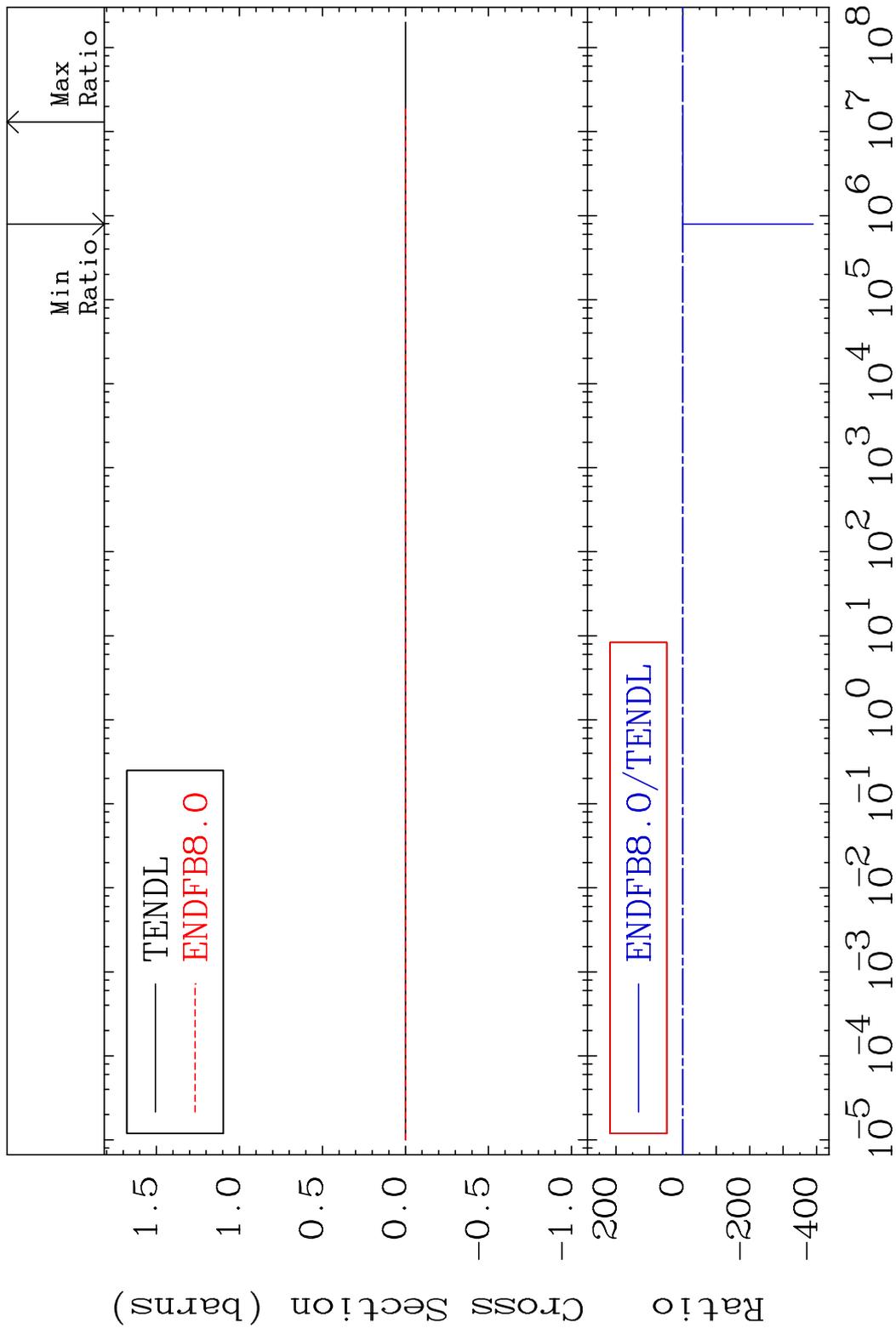


32 Incident Energy (eV) 58-Ce-138

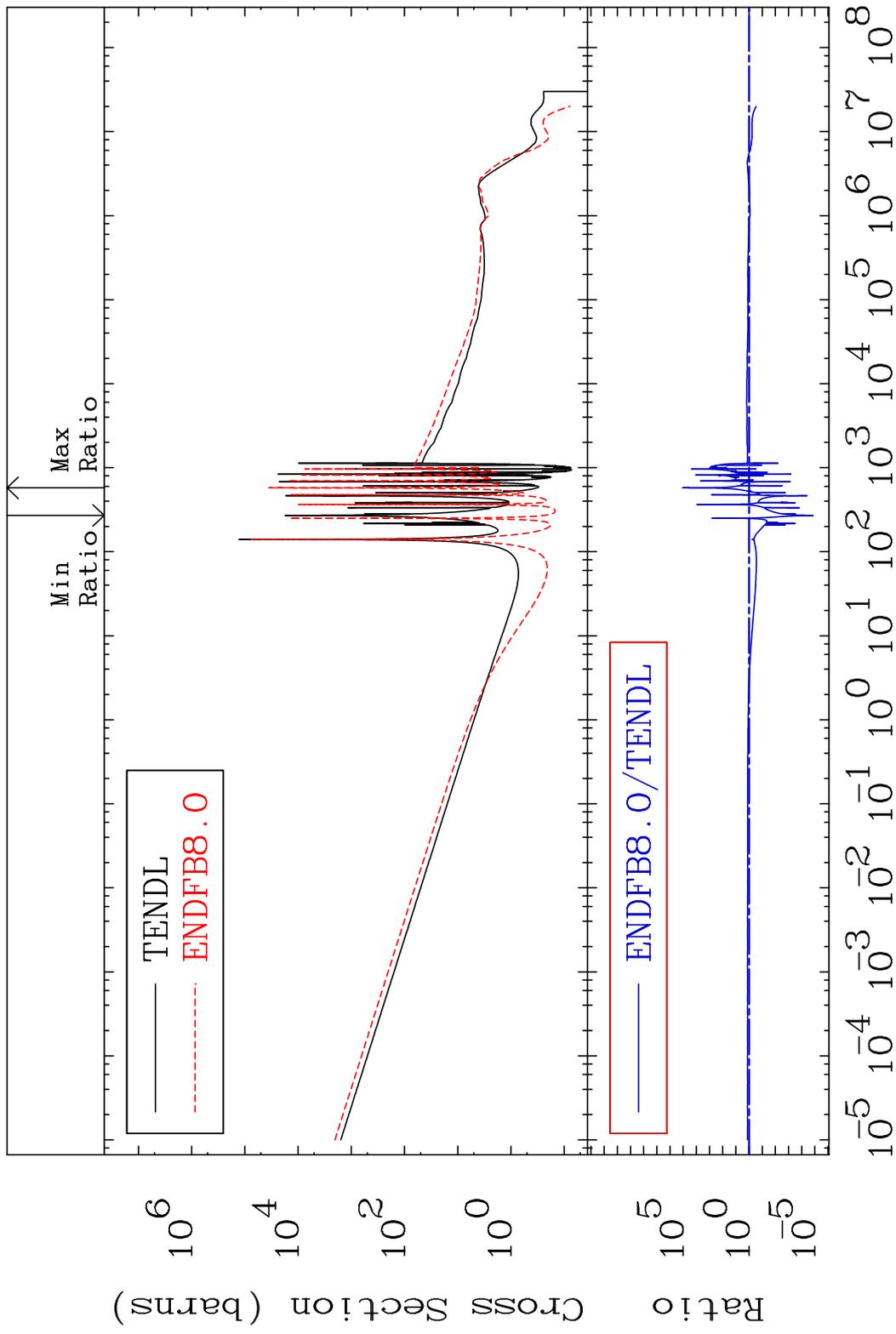
MAT 5831 Kerma inelastic (mt51-91) 58-Ce-138
 Cross Section -9999. To 94.65 %



MAT 5831 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-138
 Cross Section -9999. To 94.65 %

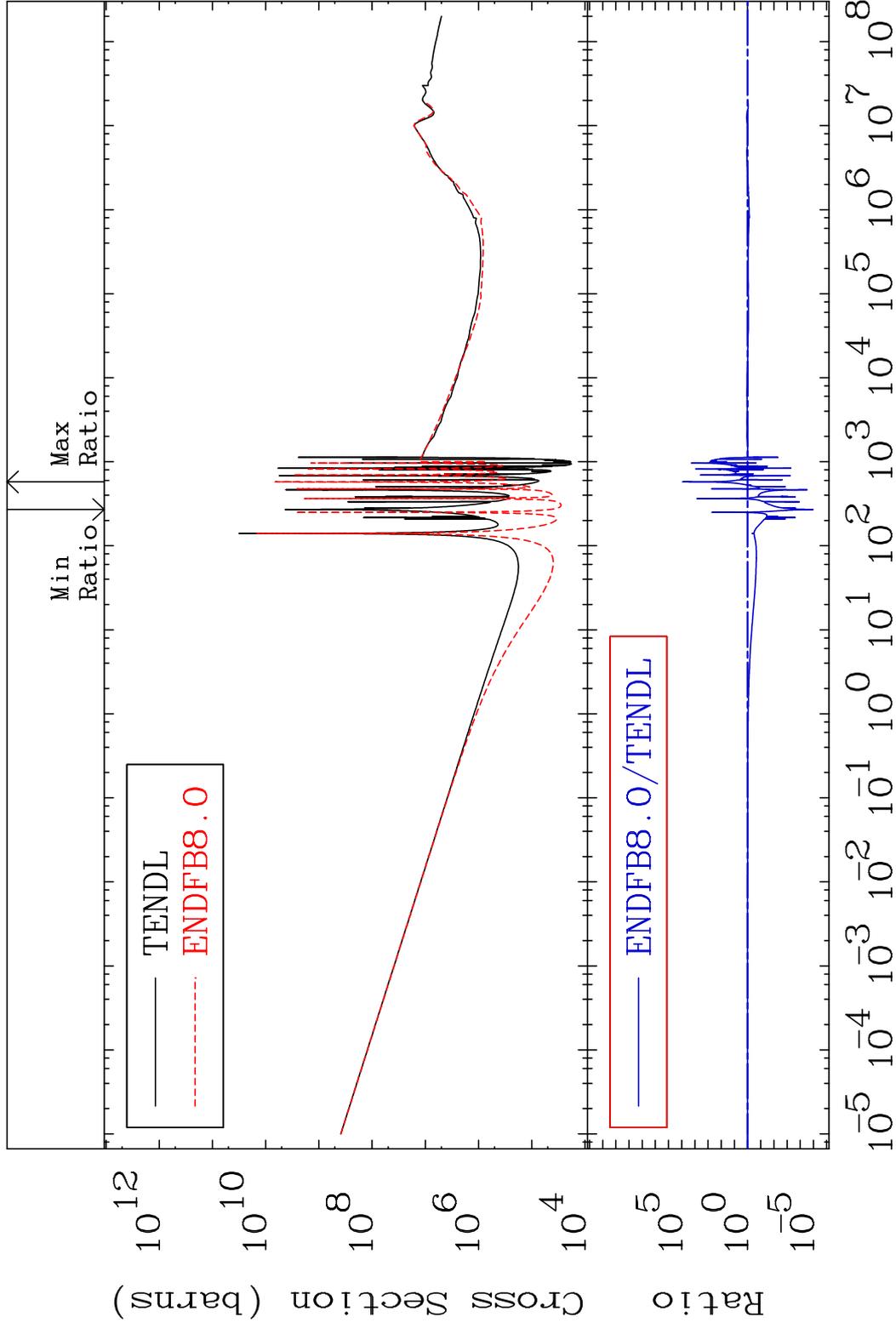


MAT 5831 Kerma capture (mt102) 58-Ce-138
 Cross Section -100.0 To 9999. %

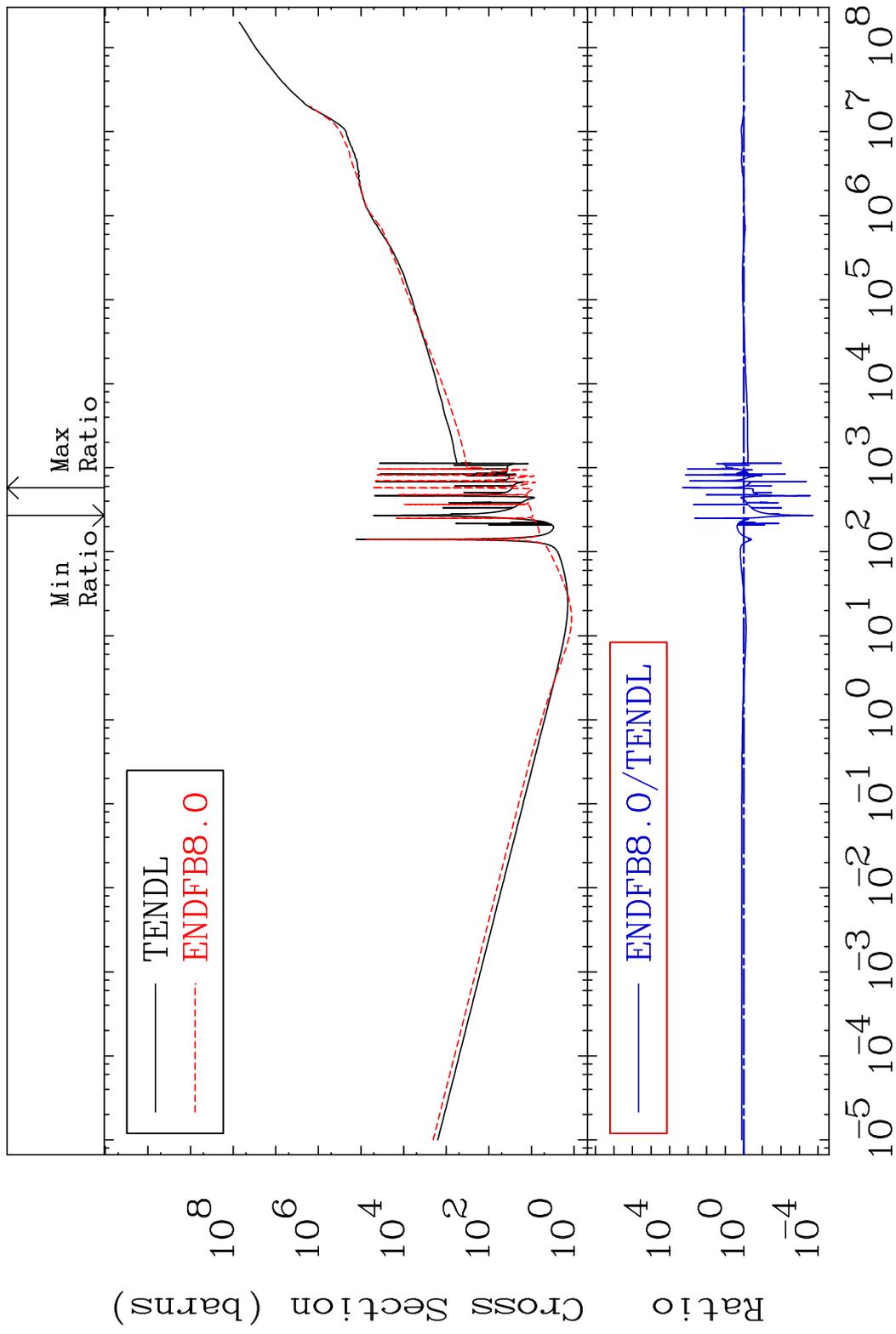


35 Incident Energy (eV) 58-Ce-138

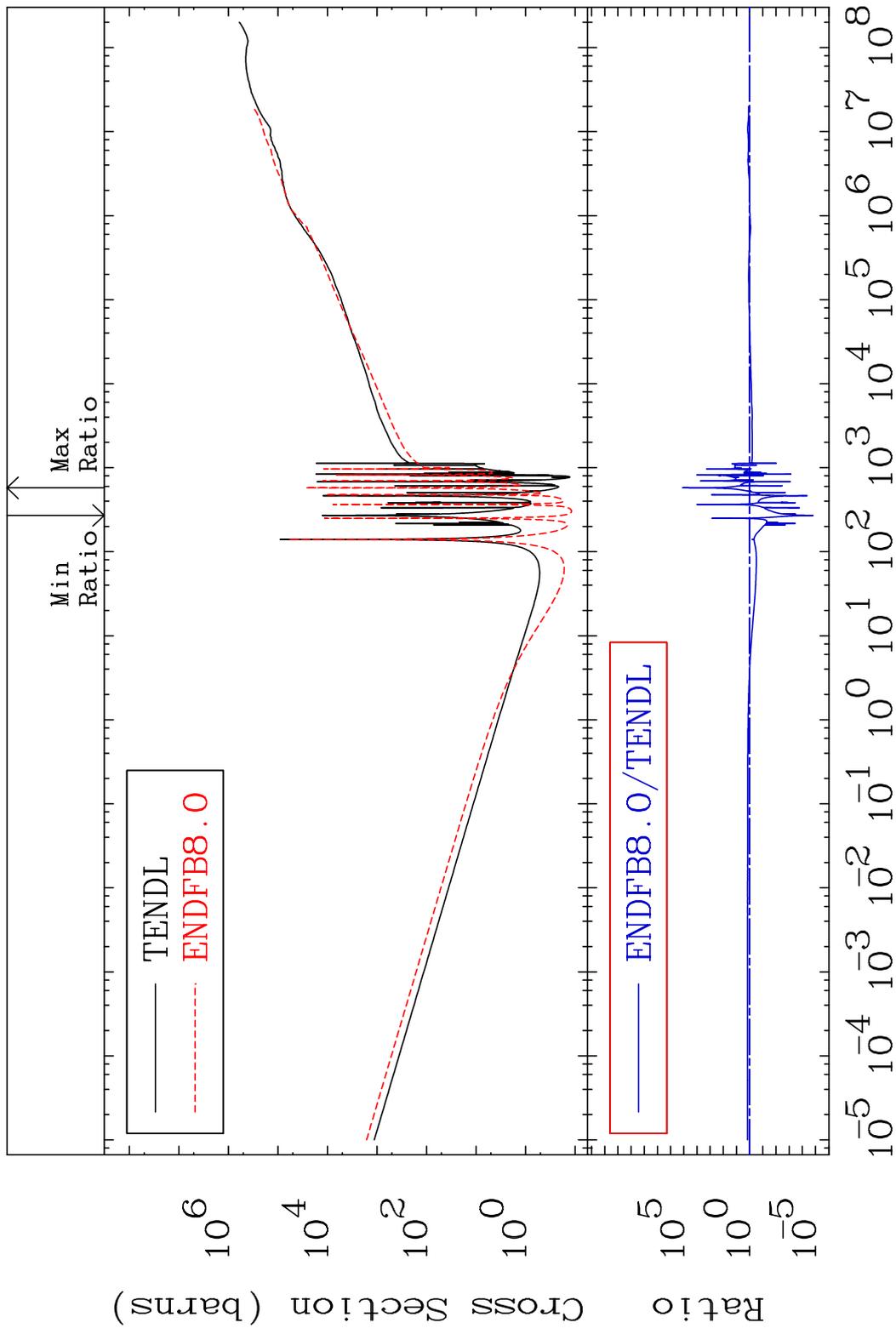
MAT 5831 Total photon (eV-barns) 58-Ce-138
Cross Section -100.0 To 9999. %



MAT 5831 Total kinematic kerma (high limit) 58-Ce-138
 Cross Section -99.98 To 9999. %



MAT 5831 Dpa total (eV-barns) 58-Ce-138
 Cross Section -100.0 To 9999. %



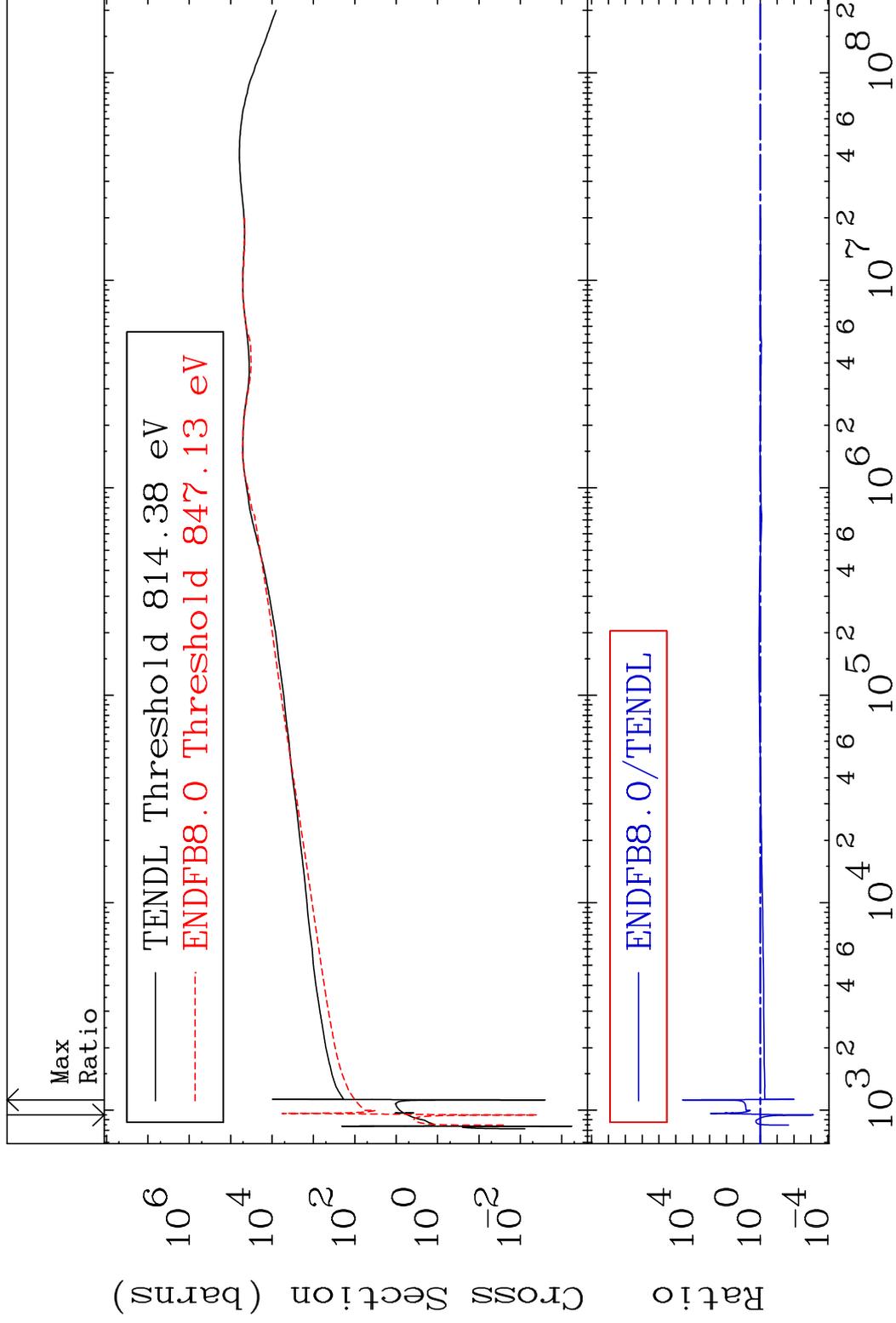
38 Incident Energy (eV) 58-Ce-138

MAT 5831

Dpa elastic (mt2)

58-Ce-138

Cross Section -99.93 To 9999. %

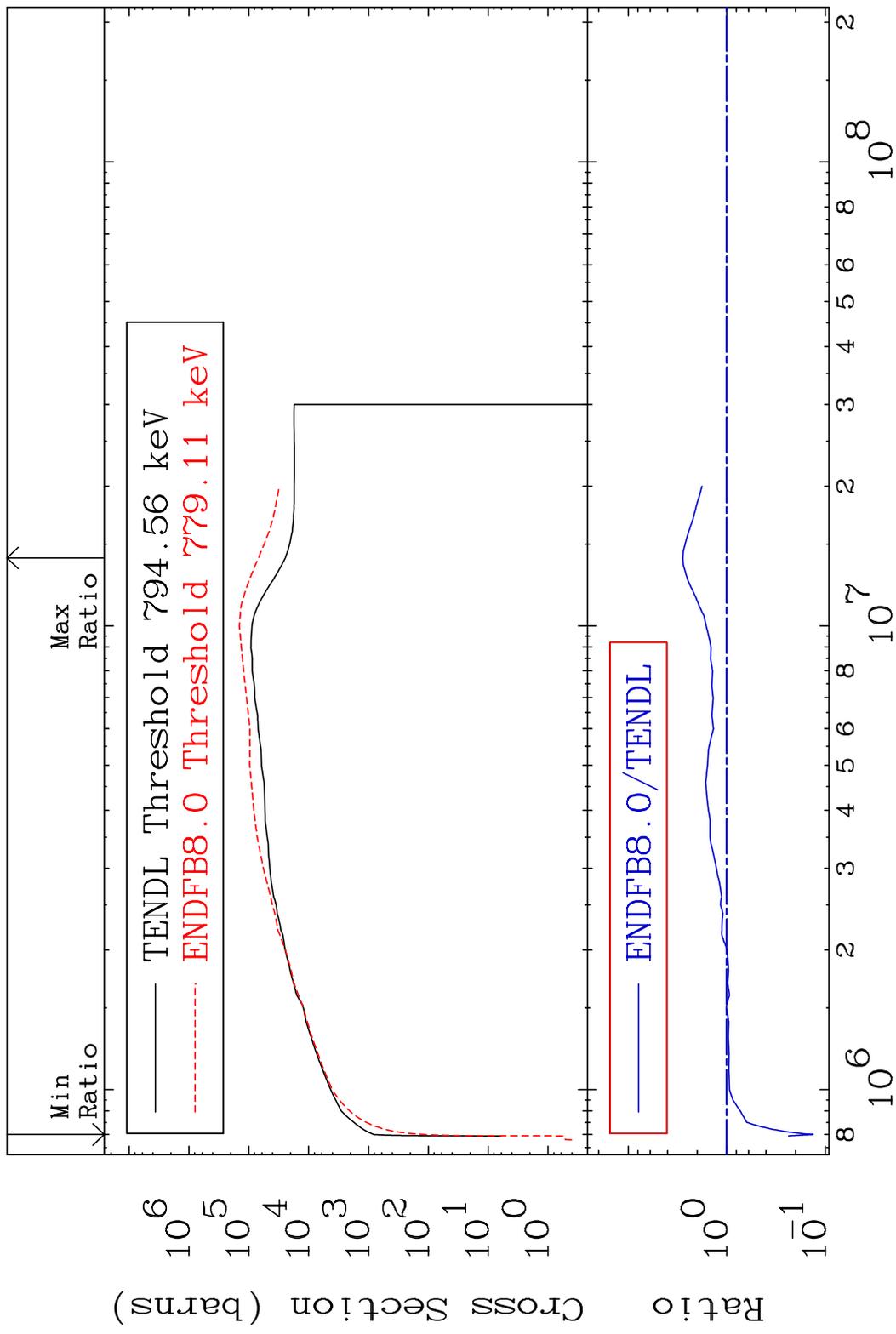


39

Incident Energy (eV)

58-Ce-138

MAT 5831 Dpa inelastic (mt51-91) 58-Ce-138
 Cross Section -86.74 To 179.5 %



40 Incident Energy (eV) 58-Ce-138

MAT 5831 Dpa disappearance (mt102 -120) 58-Ce-138
 Cross Section -100.0 To 9999. %

