

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

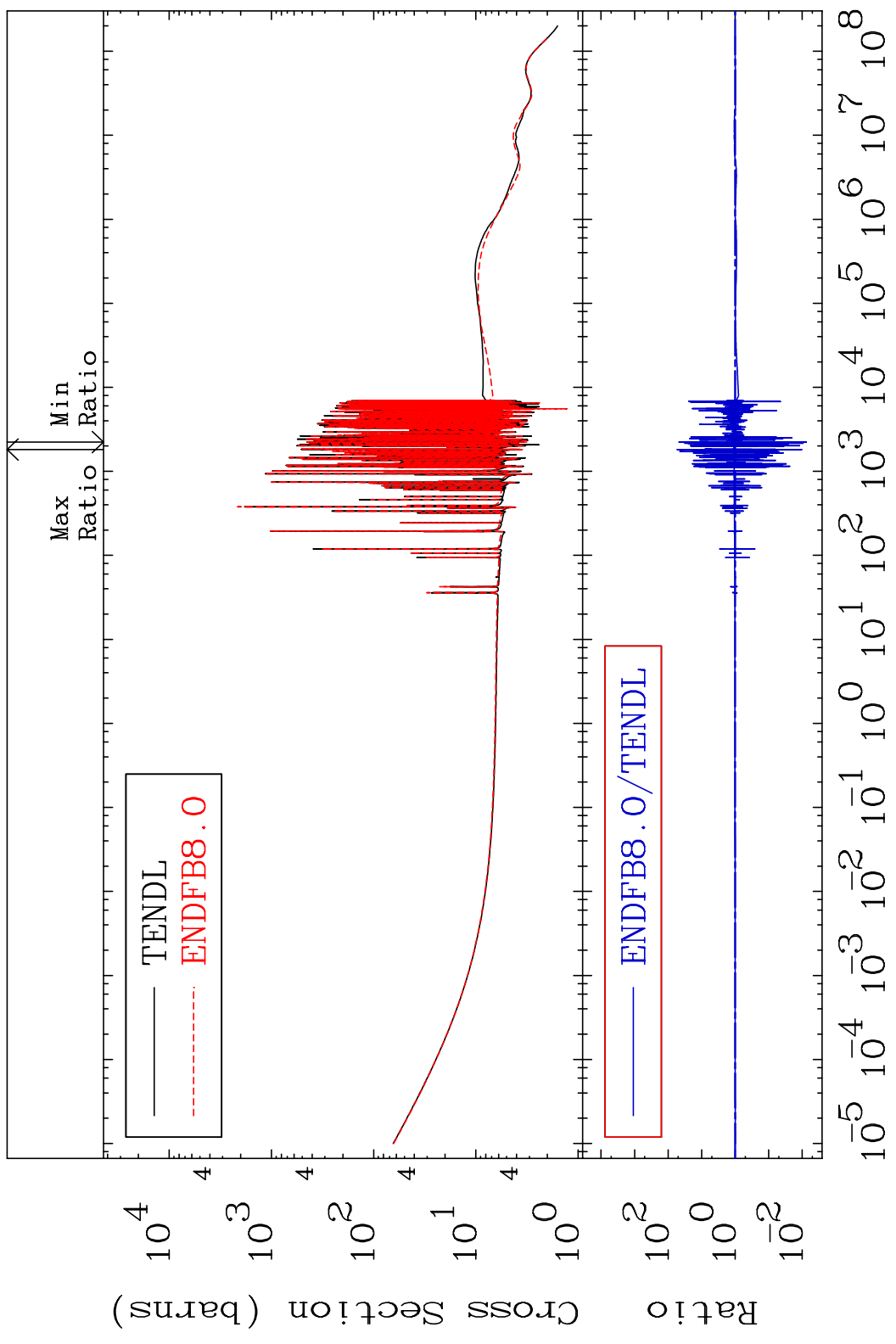
Press Mouse Button to Start

MAT 4125

Total

41-Nb-93

Cross Section -99.25 To 5266. %



1

Incident Energy (eV)

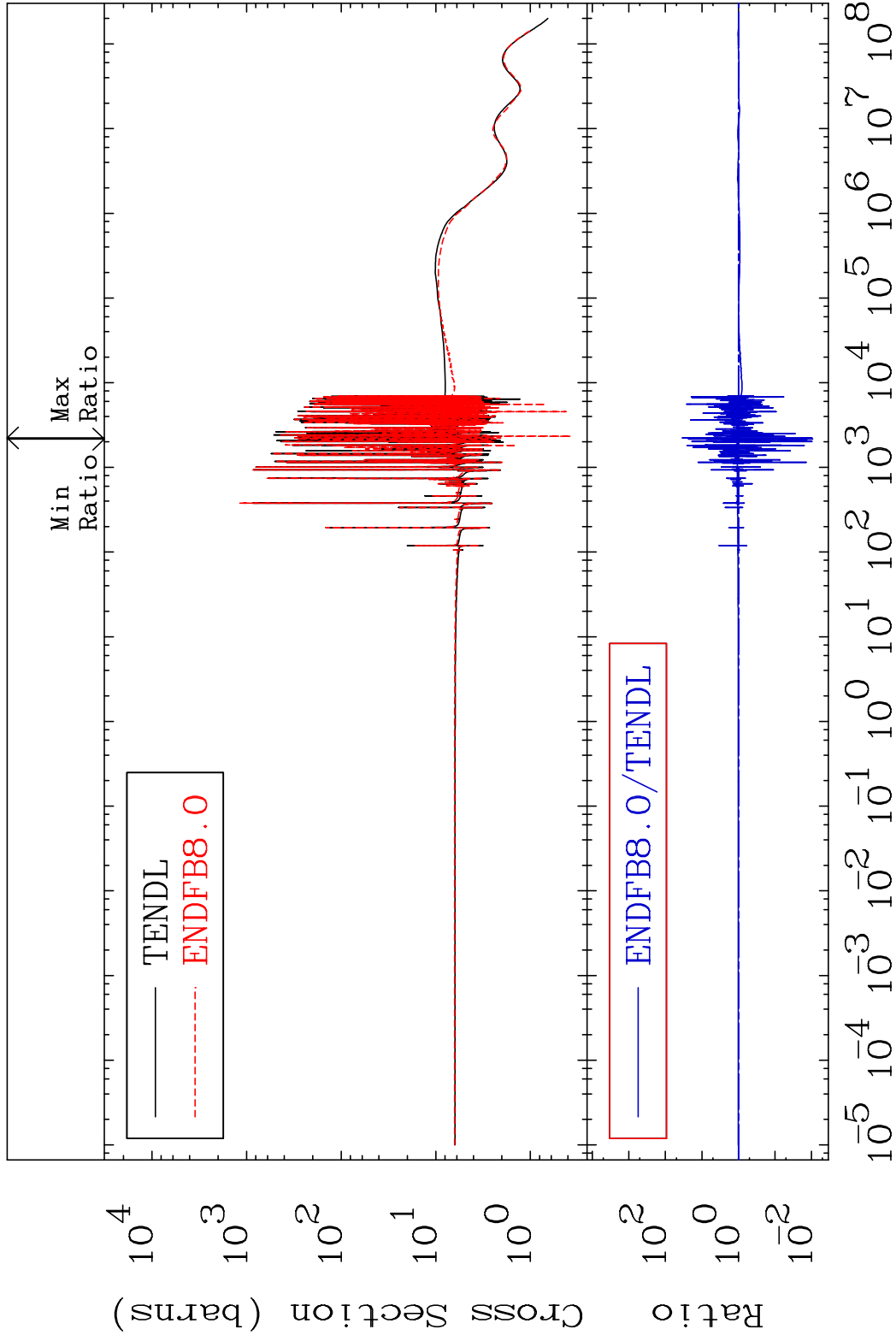
41-Nb-93

MAT 4125

Elastic

41-Nb-93

Cross Section -99.07 To 3330. %



2

Incident Energy (eV)

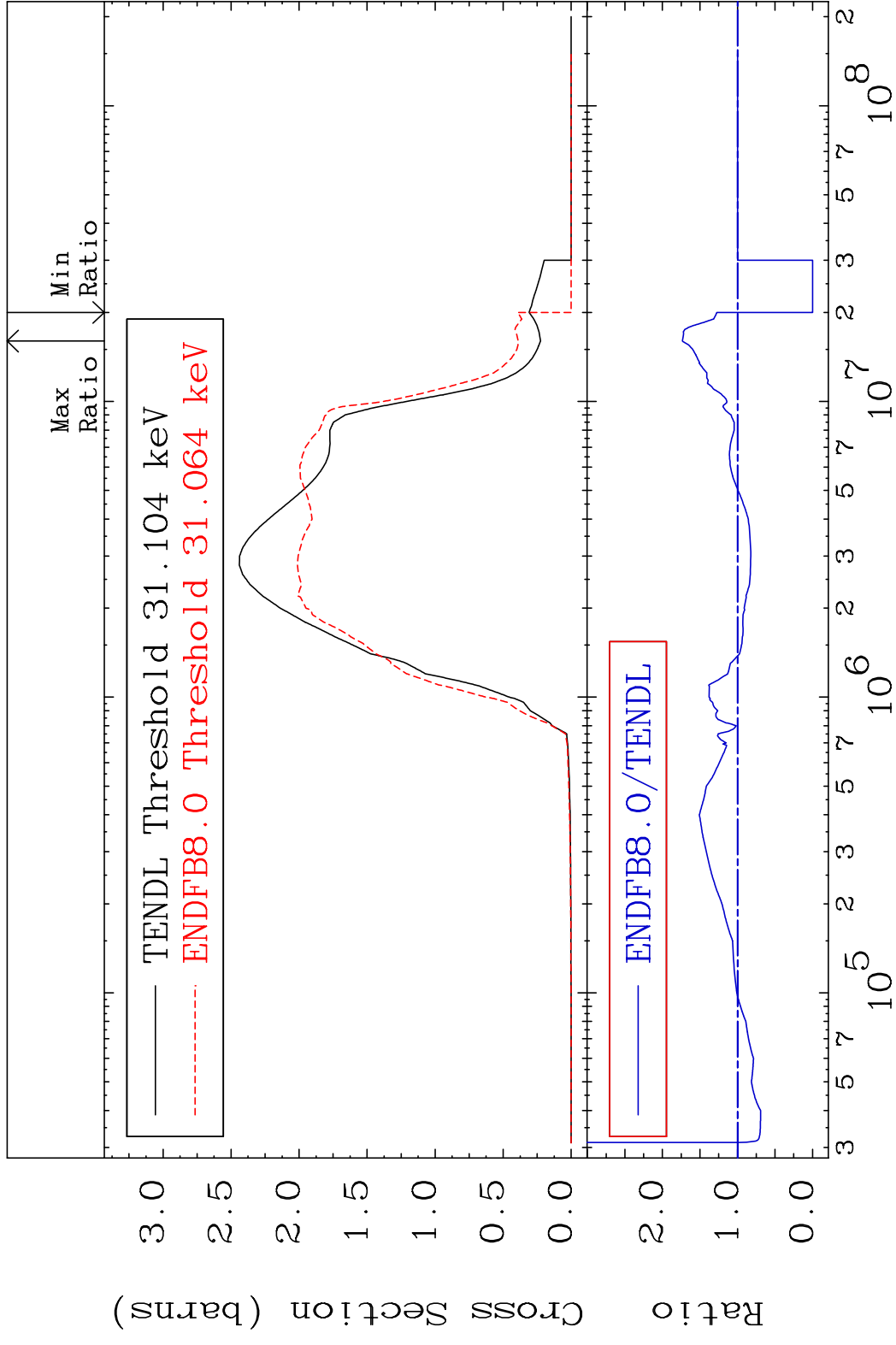
41-Nb-93

MAT 4125

Inelastic

41-Nb-93

Cross Section -100.0 To 73.45 %



Cross Section (barns)

Ratio

— TENDL Threshold 31.104 keV
- - - ENDFB8.0 Threshold 31.064 keV

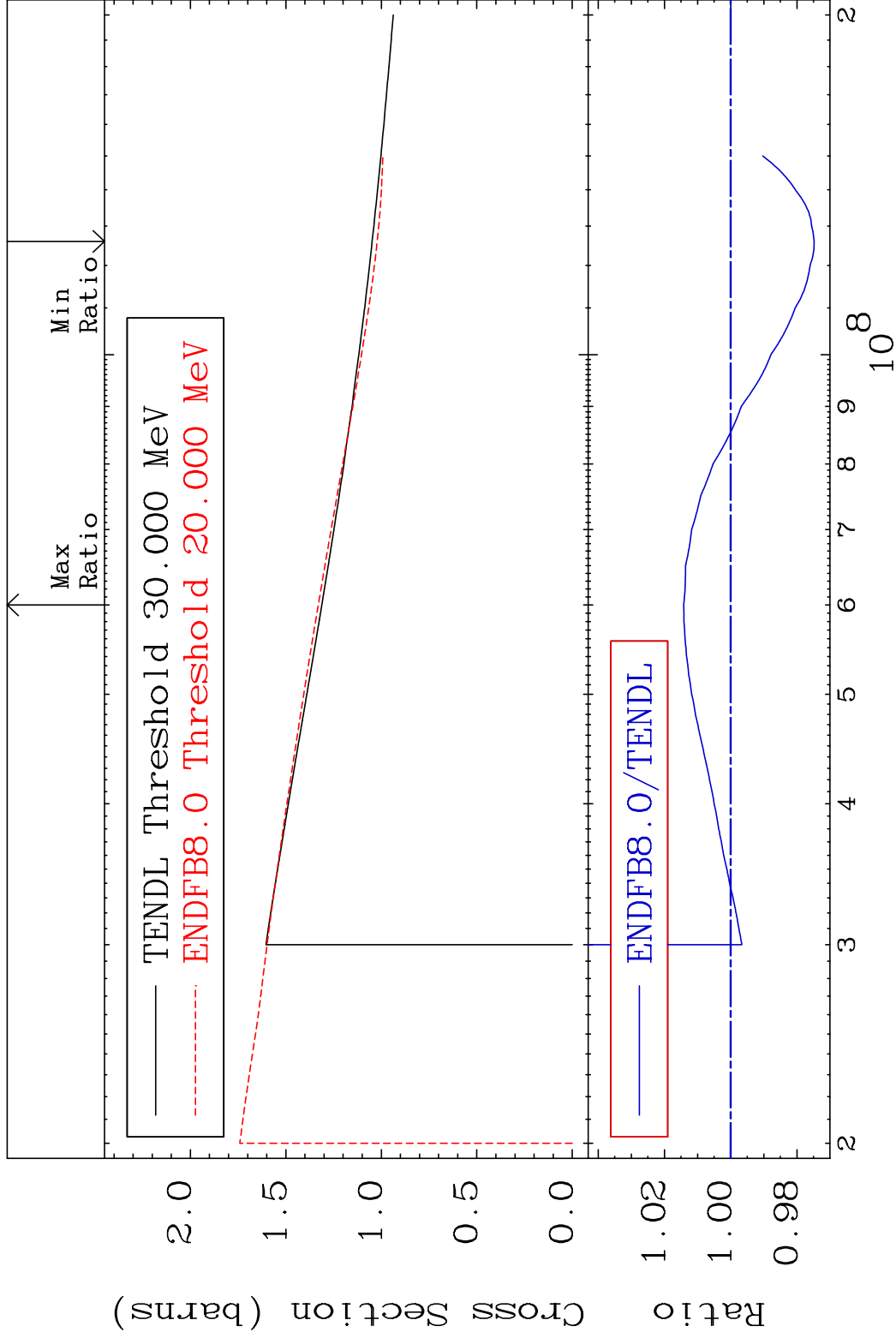
— ENDFB8.0/TENDL

MAT 4125

(n, remainder)

41-Nb-93

Cross Section -2.519 To 1.420 %



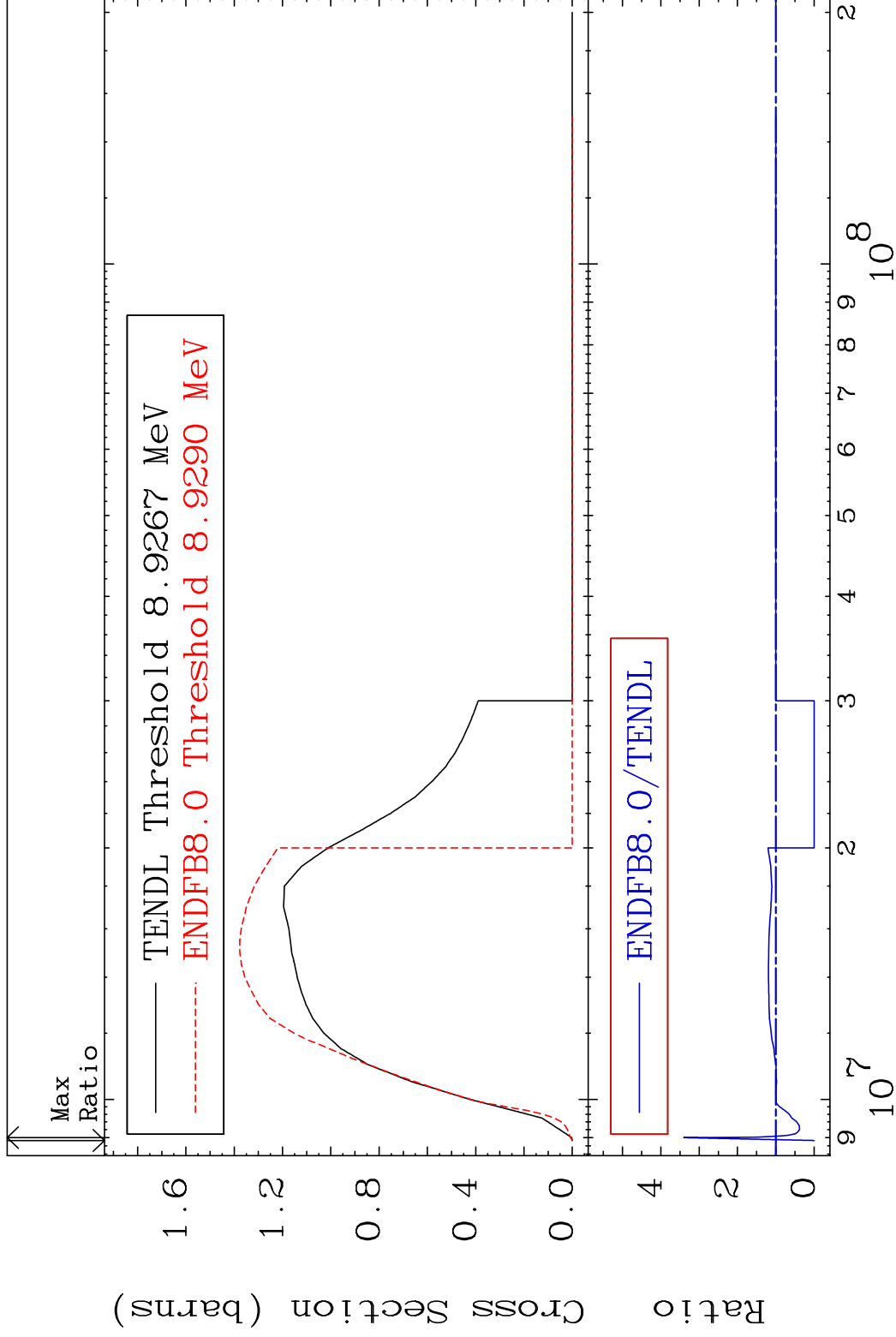
4 Incident Energy (eV) 41-Nb-93

MAT 4125

(n,2n)

41-Nb-93

Cross Section -100.0 To 240.4 %



5

Incident Energy (eV)

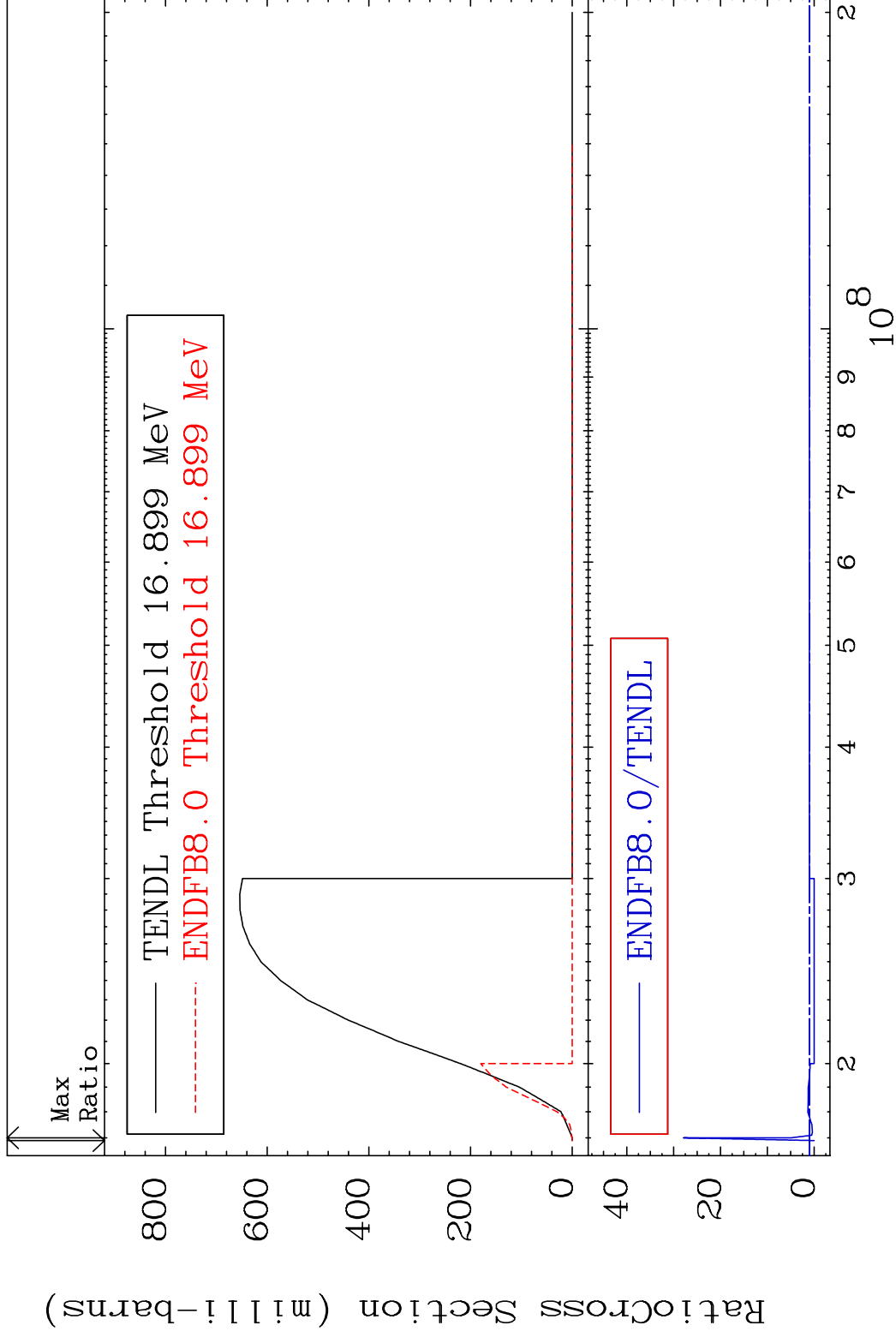
41-Nb-93

MAT 4125

(n,3n)

41-Nb-93

Cross Section -100.0 To 2687. %

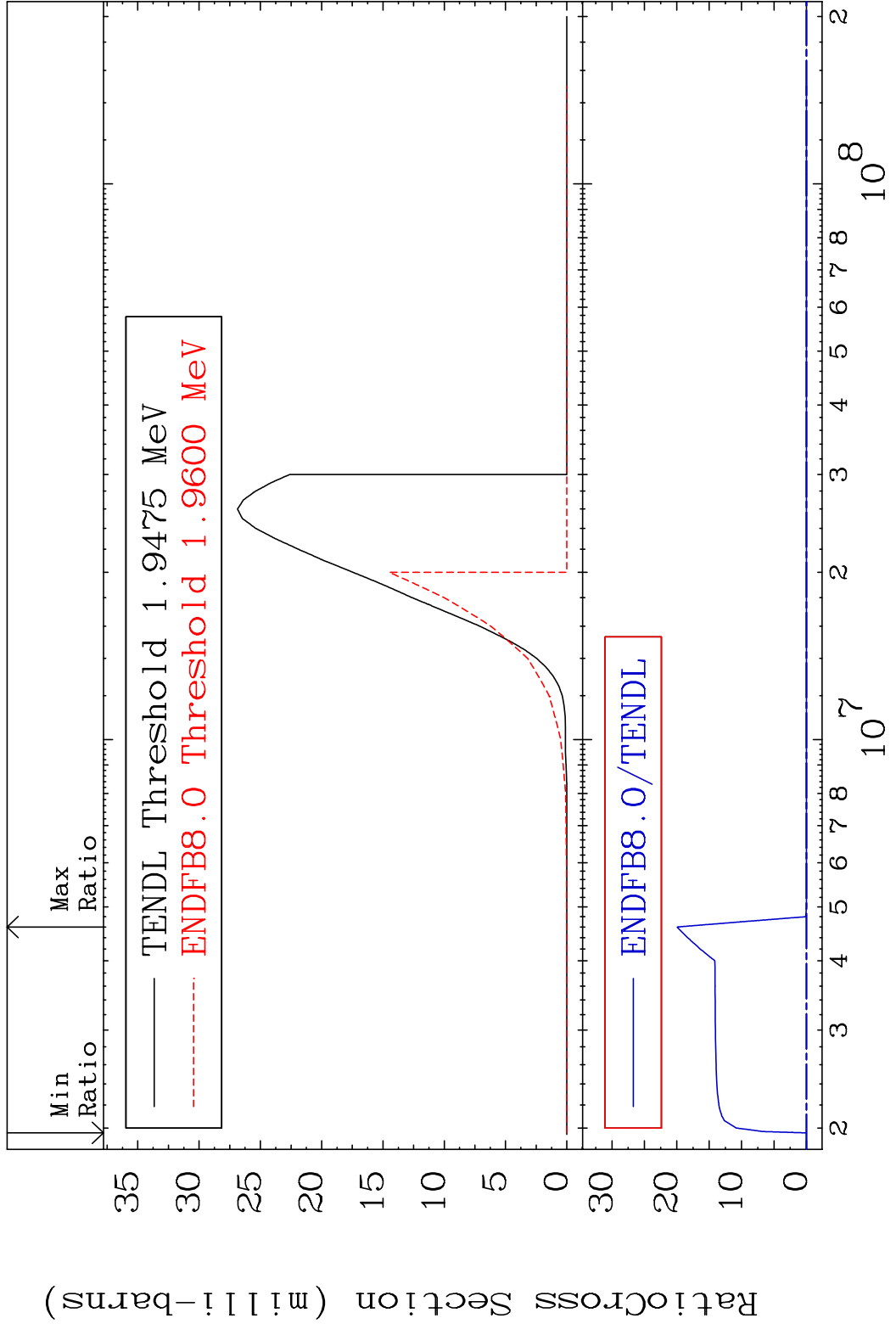


6

Incident Energy (eV)

41-Nb-93

MAT 4125 (n, n') α 41-Nb-93
 Cross Section -100.0 To 9999. %

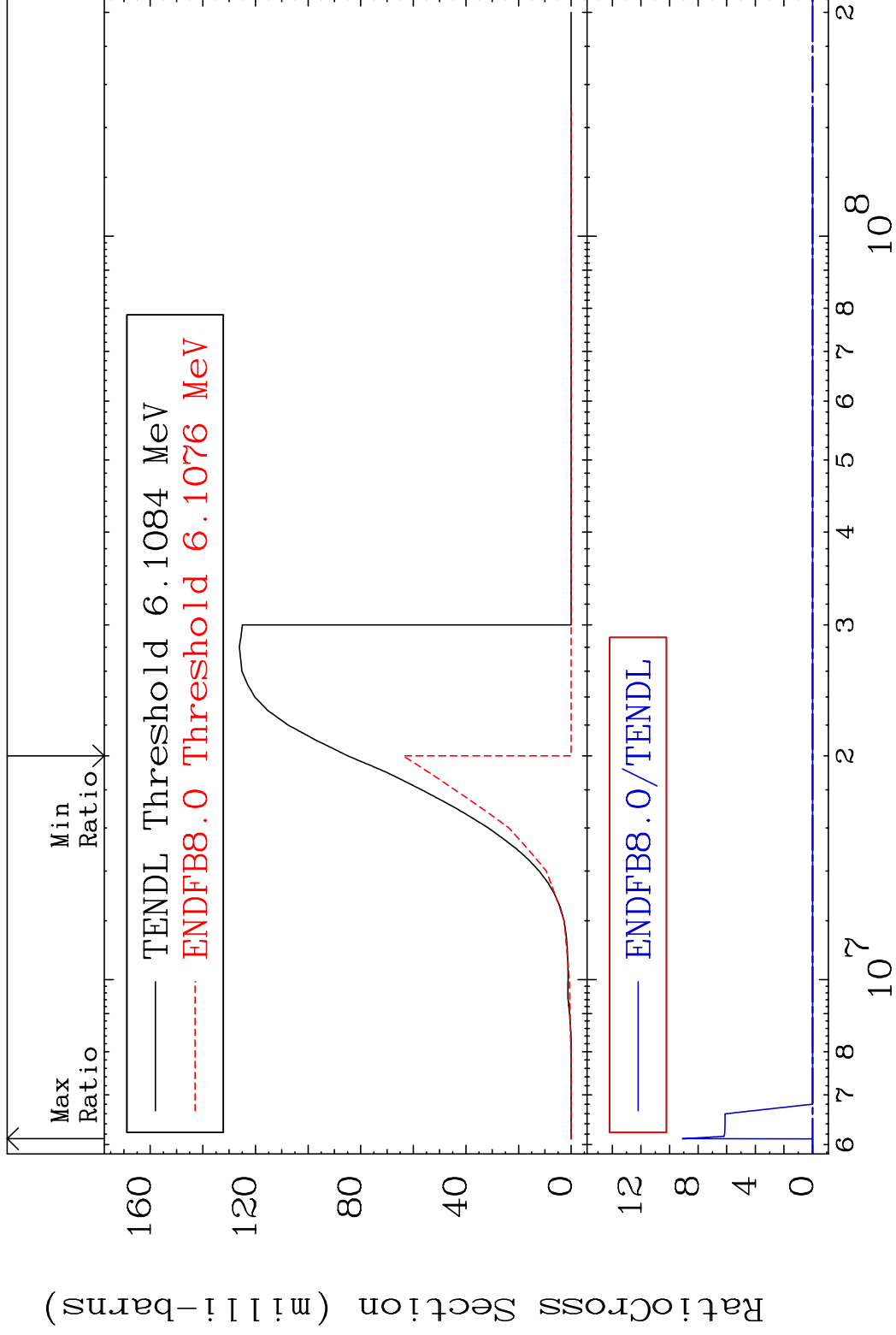


MAT 4125

(n, n') p

41-Nb-93

Cross Section -100.0 To 9999. %

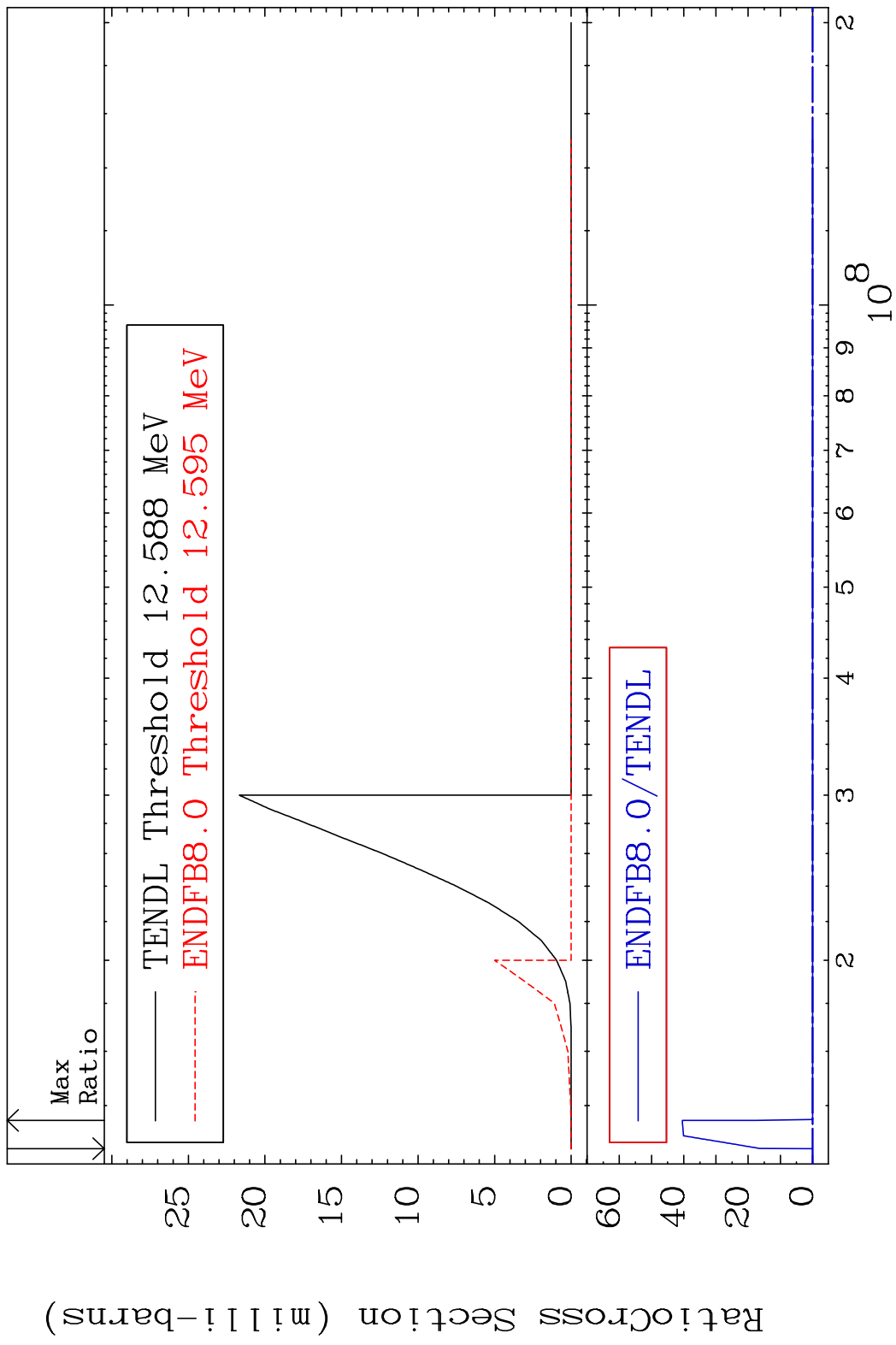


8

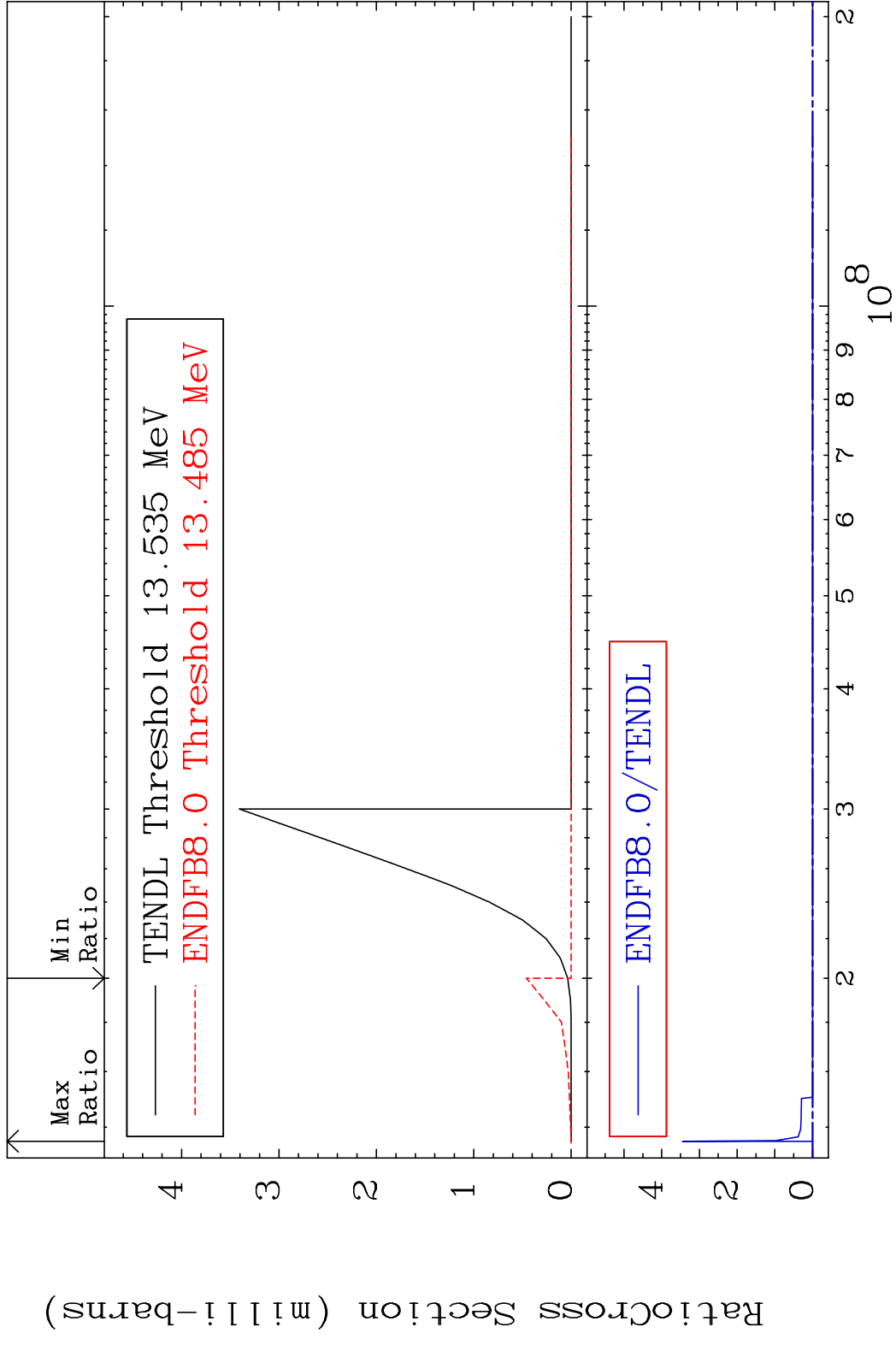
Incident Energy (eV)

41-Nb-93

MAT 4125 (n, n') d 41-Nb-93
 Cross Section -100.0 To 9999. %

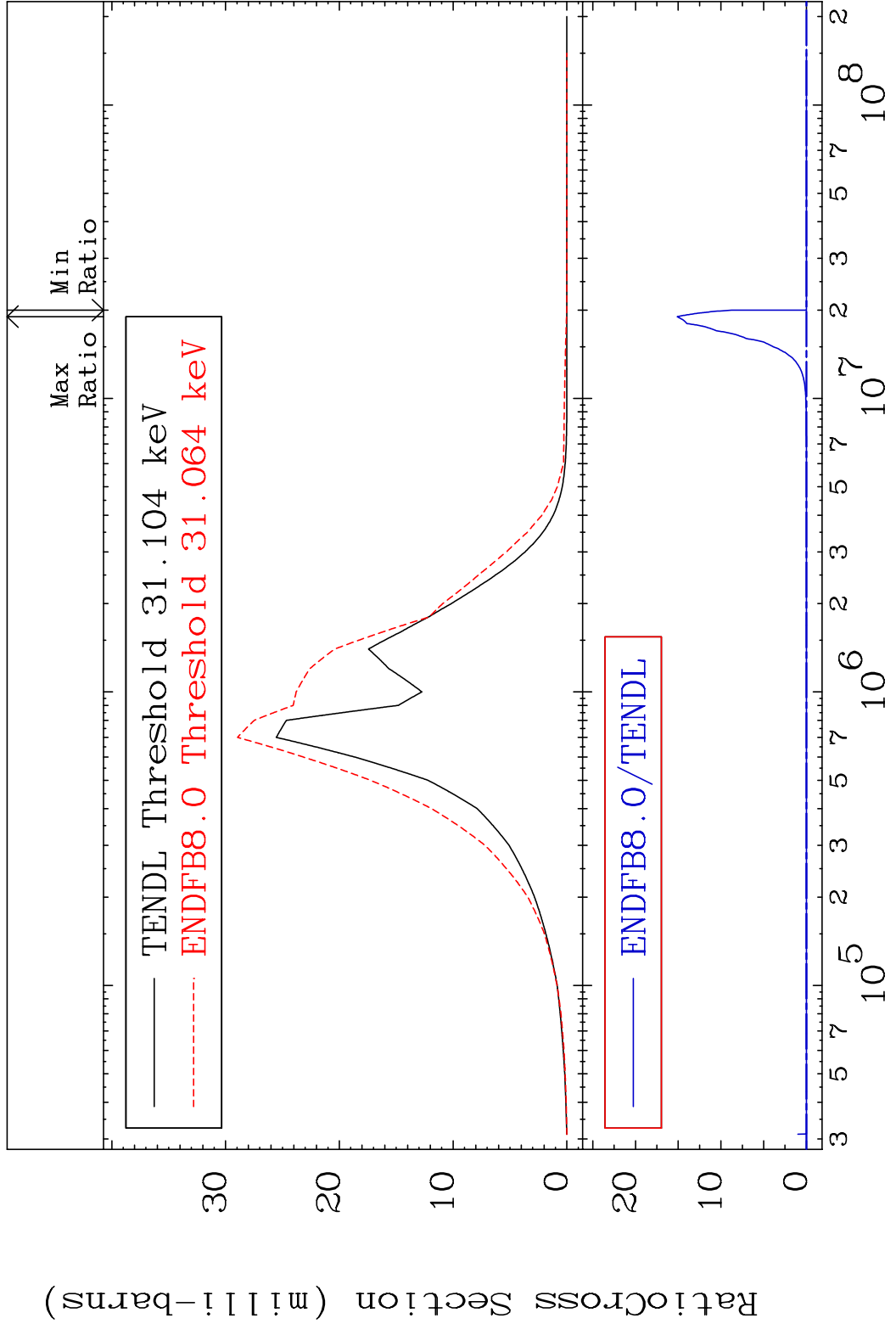


MAT 4125 (n, n') t 41-Nb-93
 Cross Section -100.0 To 9999. %

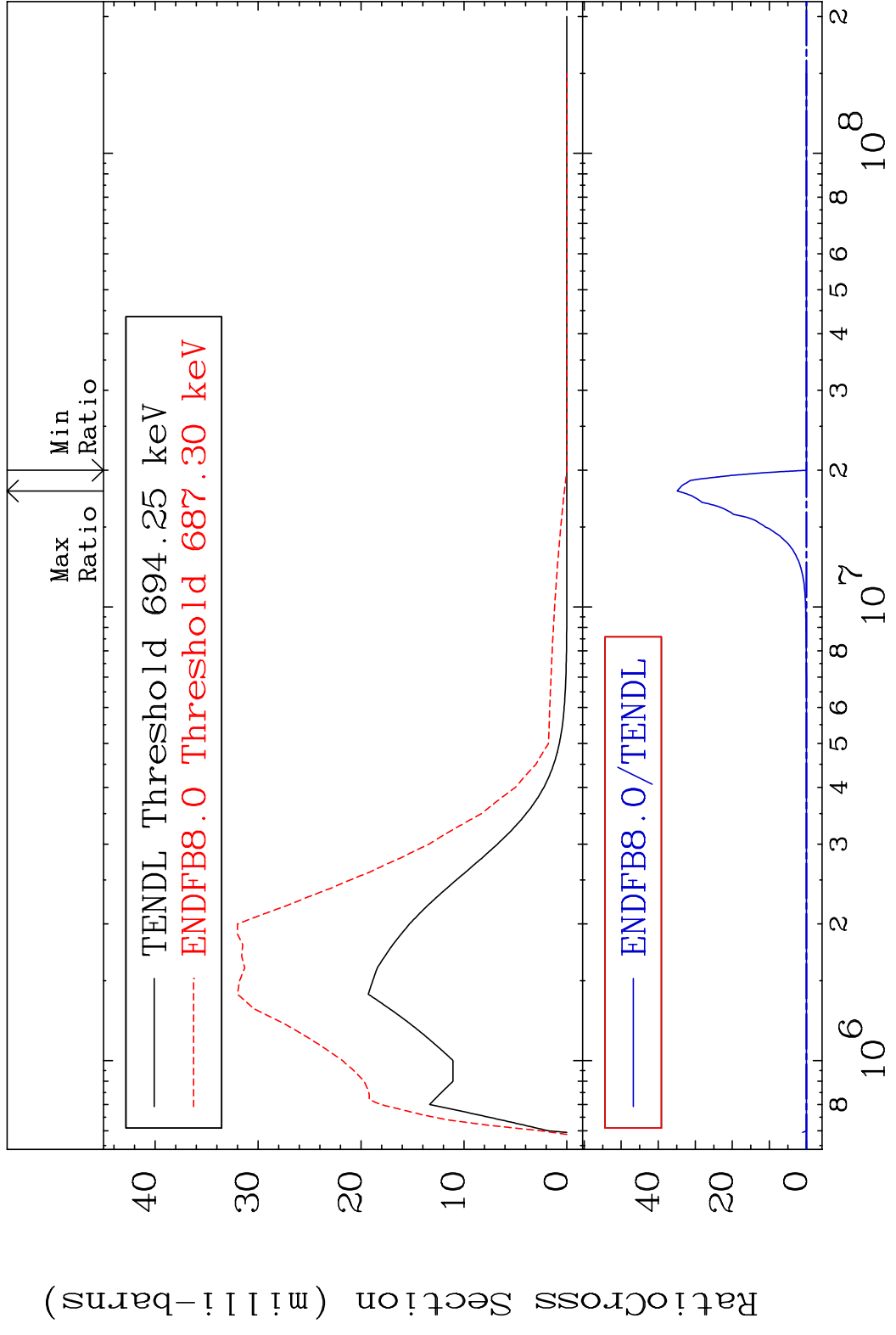


10 Incident Energy (eV) 41-Nb-93

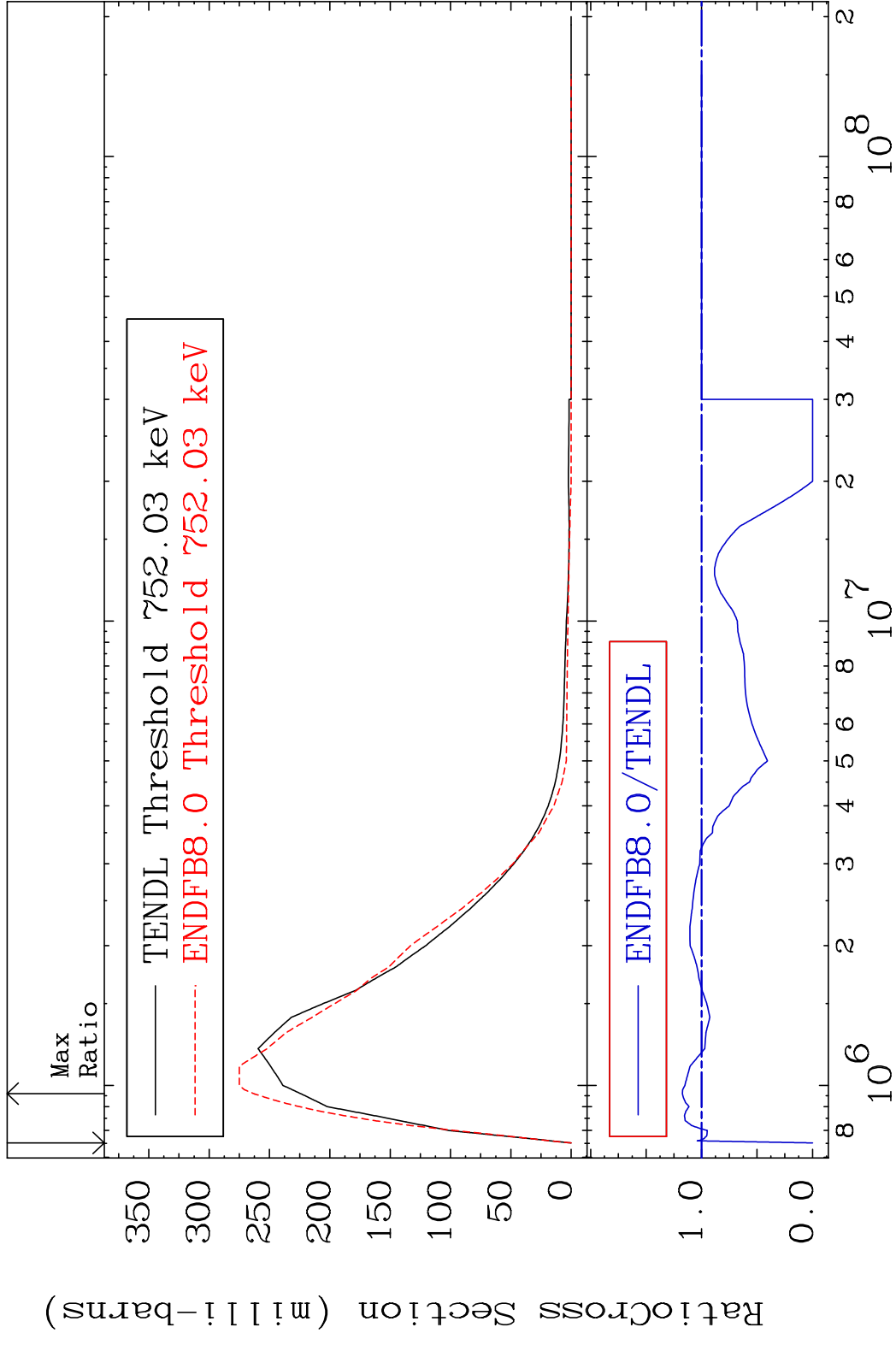
MAT 4125 MT= 51 (n,n') Level 41-Nb-93
 Cross Section -100.0 To 9999. %



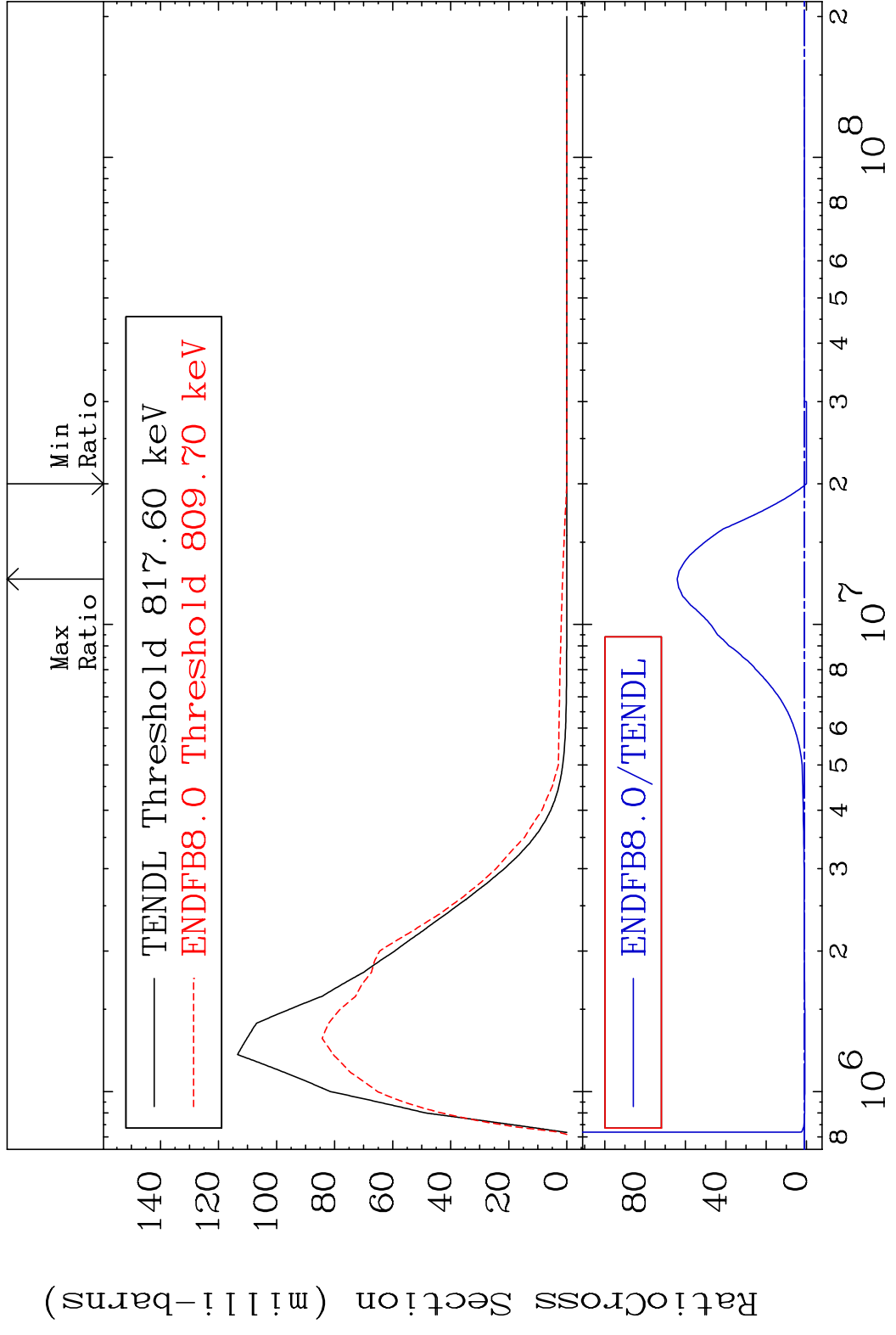
MAT 4125 MT= 52 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 9999. %



MAT 4125 MT= 53 (n,n') Level 41-Nb-93
 Cross Section -100.0 To 17.33 %

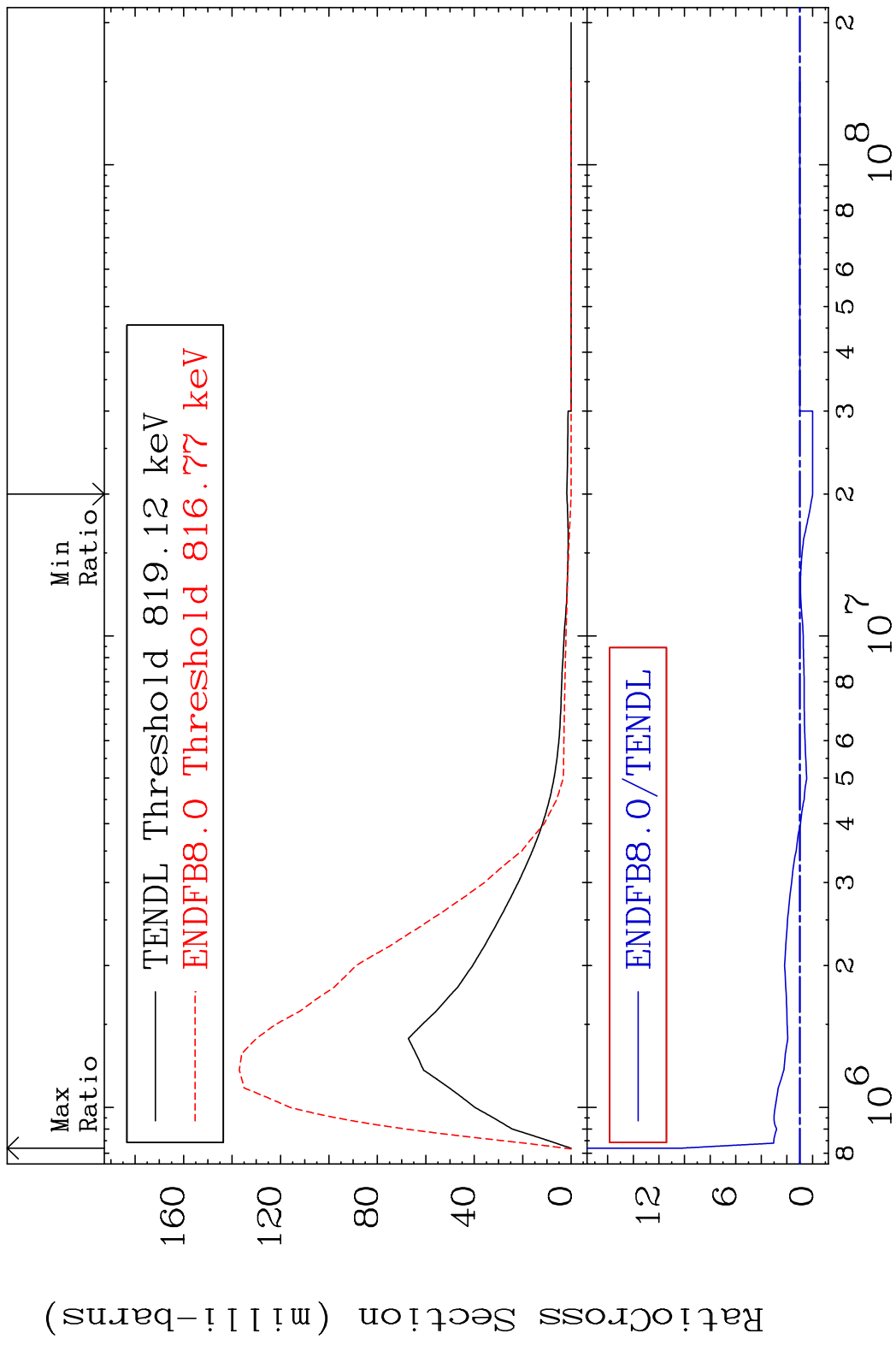


MAT 4125 MT= 54 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 6311. %



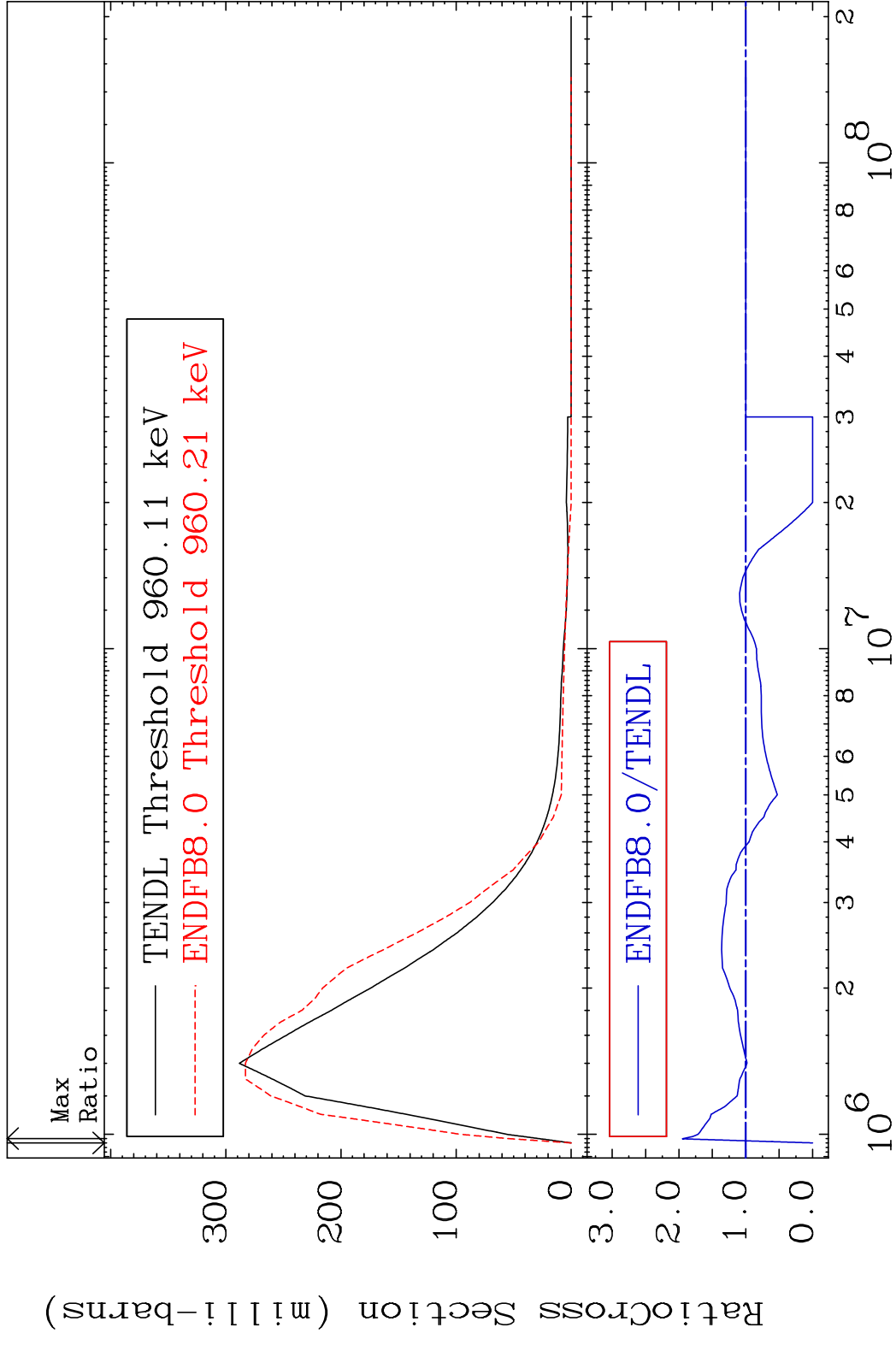
14 Incident Energy (eV) 41-Nb-93

MAT 4125 MT= 55 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 916.6 %



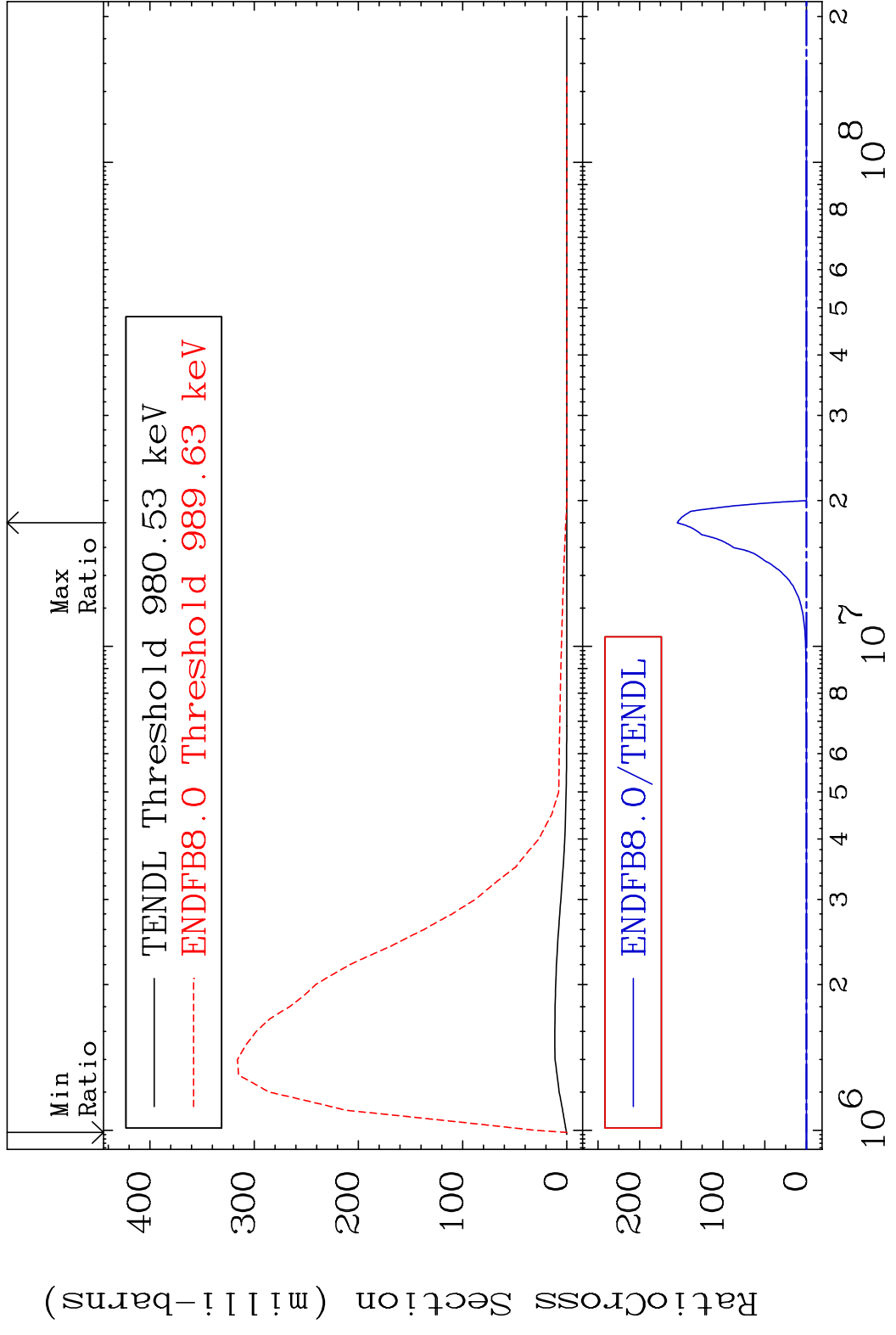
15 15 Incident Energy (eV) 41-Nb-93

MAT 4125 MT= 56 (n,n') Level 41-Nb-93
 Cross Section -100.0 To 94.93 %



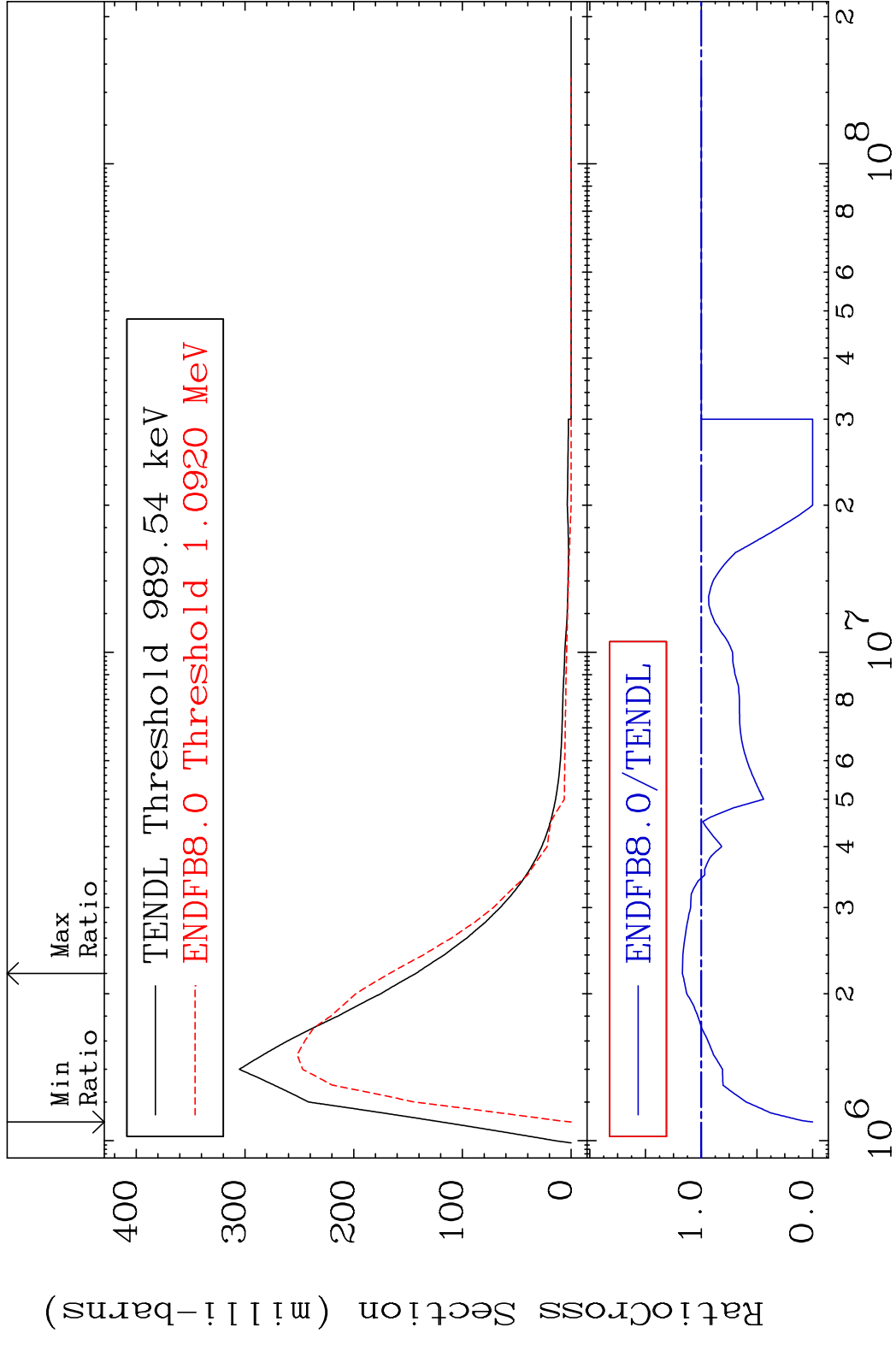
16 Incident Energy (eV) 41-Nb-93

MAT 4125 MT= 57 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 9999. %



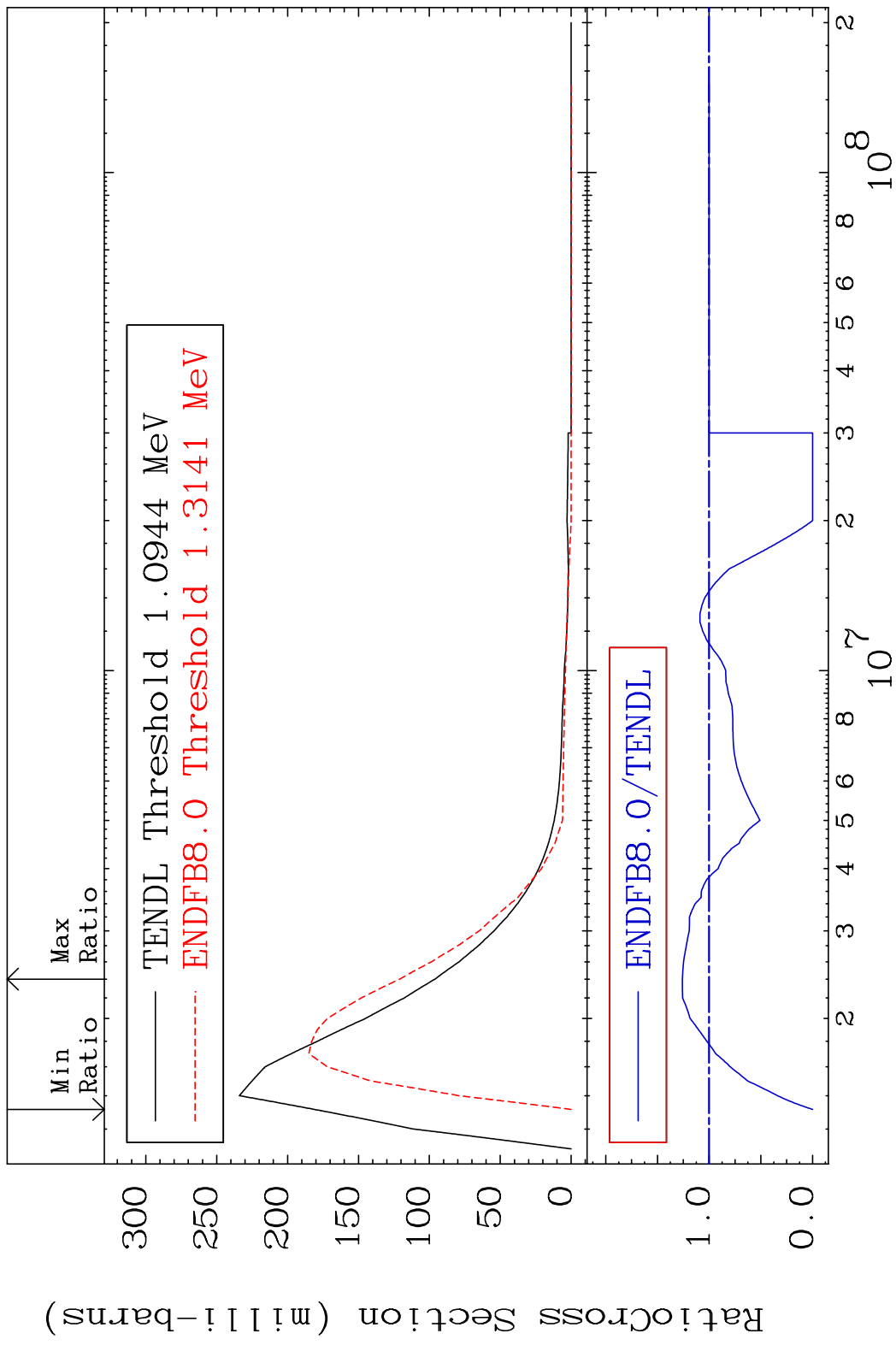
17 Incident Energy (eV) 41-Nb-93

MAT 4125 MT= 58 (n,n') Level 41-Nb-93
 Cross Section -100.0 To 16.95 %

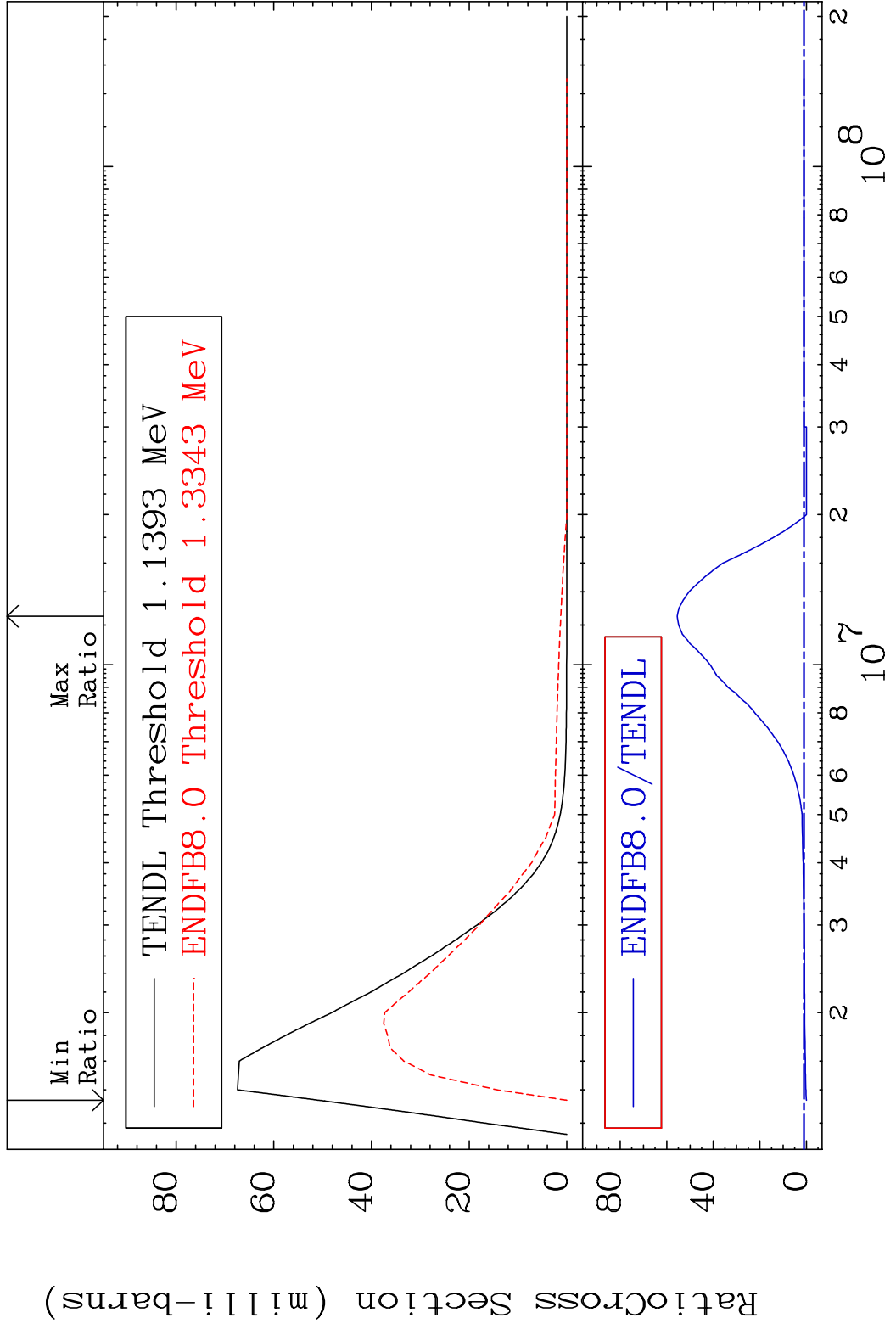


18 Incident Energy (eV) 41-Nb-93

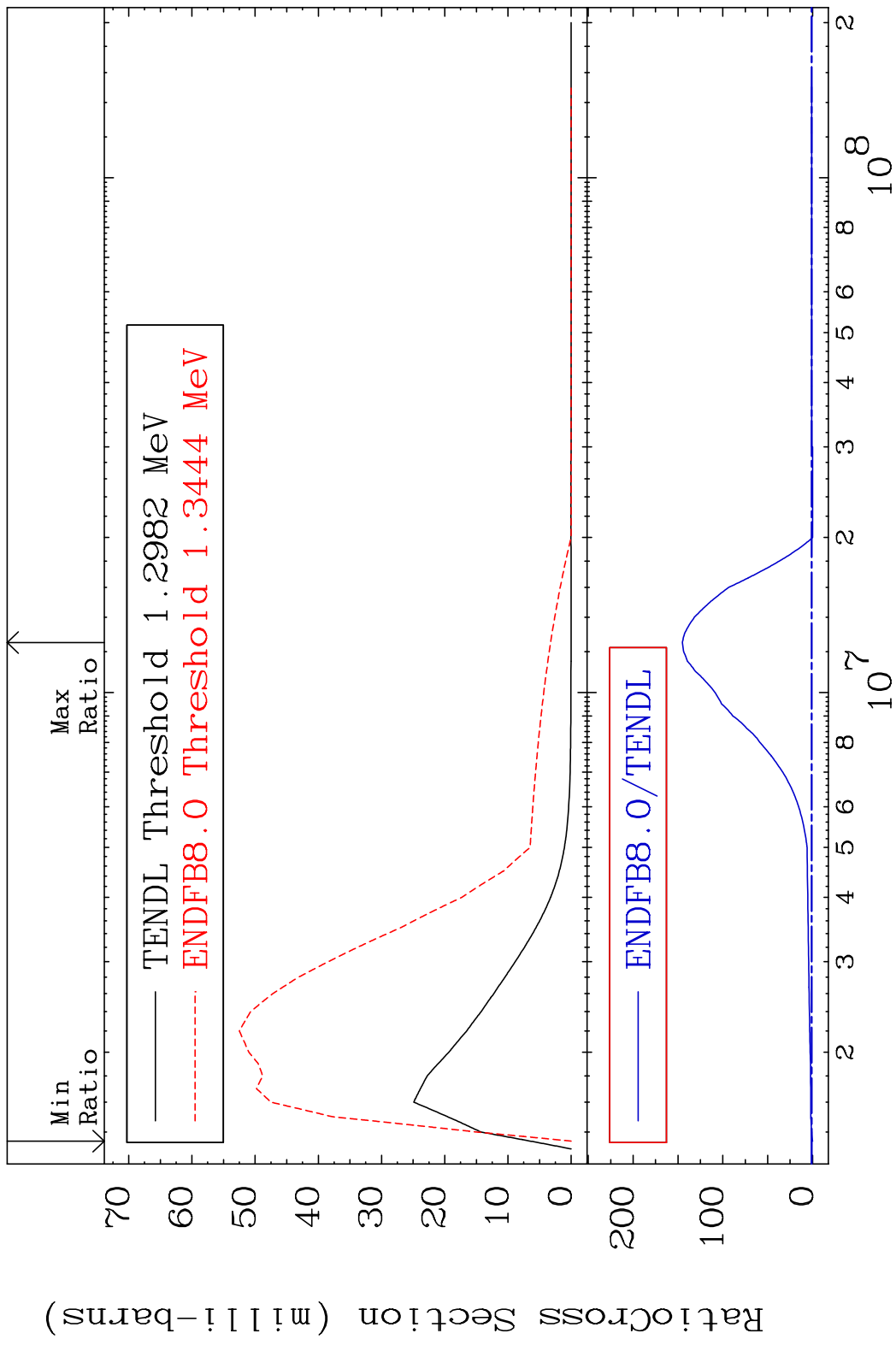
MAT 4125 MT= 59 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 25.94 %



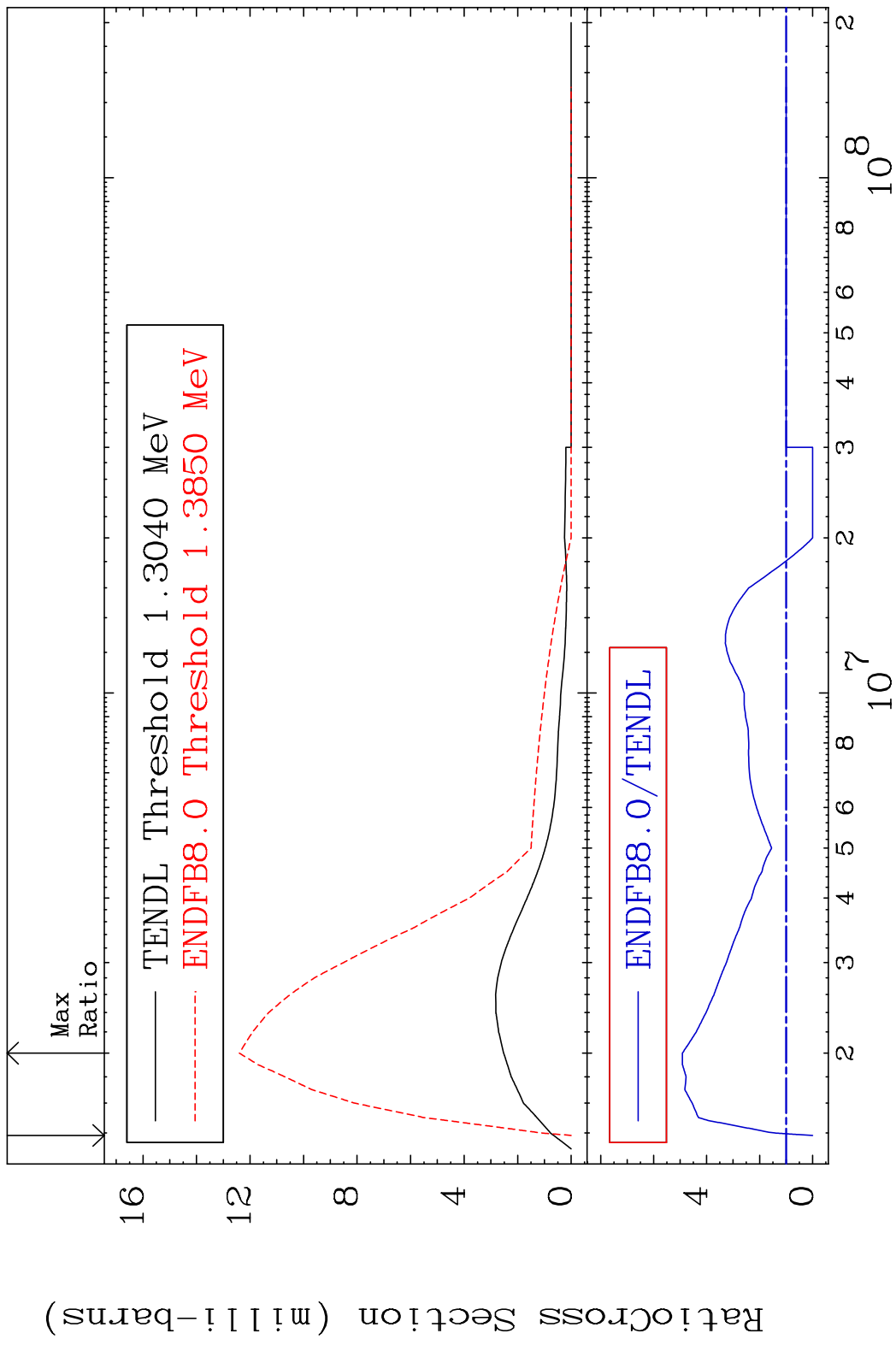
MAT 4125 MT= 60 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 5451. %



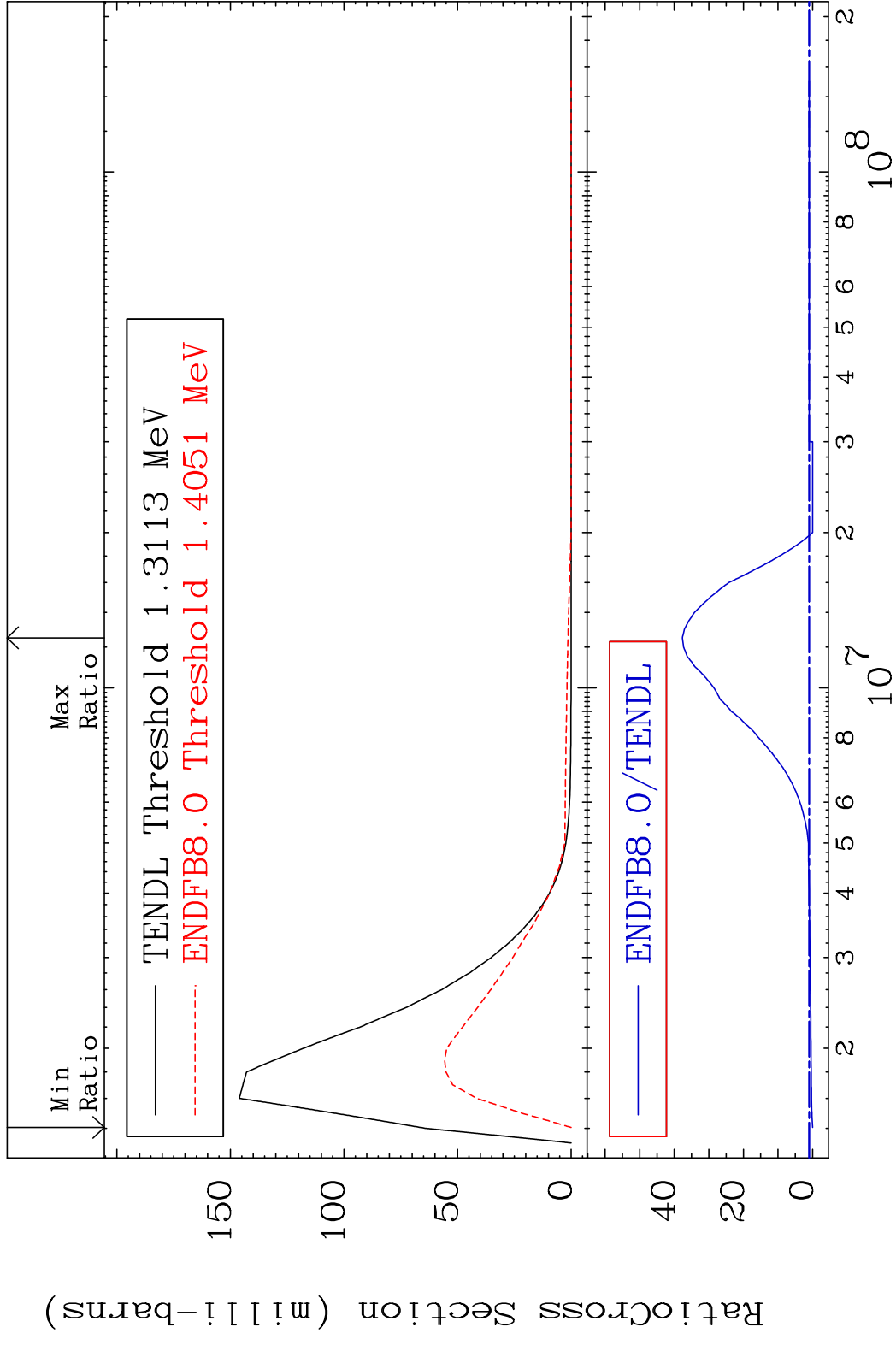
MAT 4125 MT= 61 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 9999. %



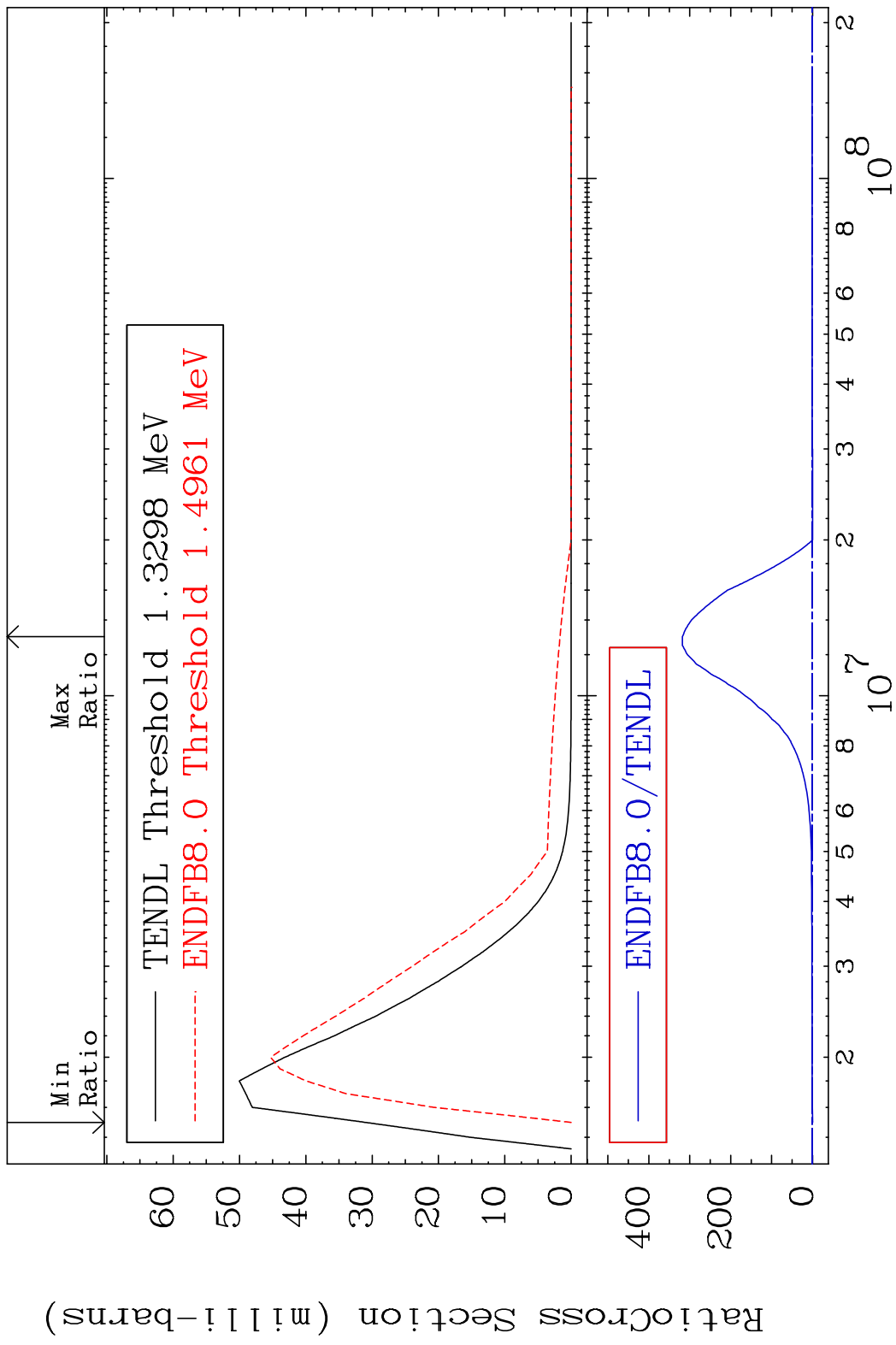
MAT 4125 MT= 62 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 391.6 %



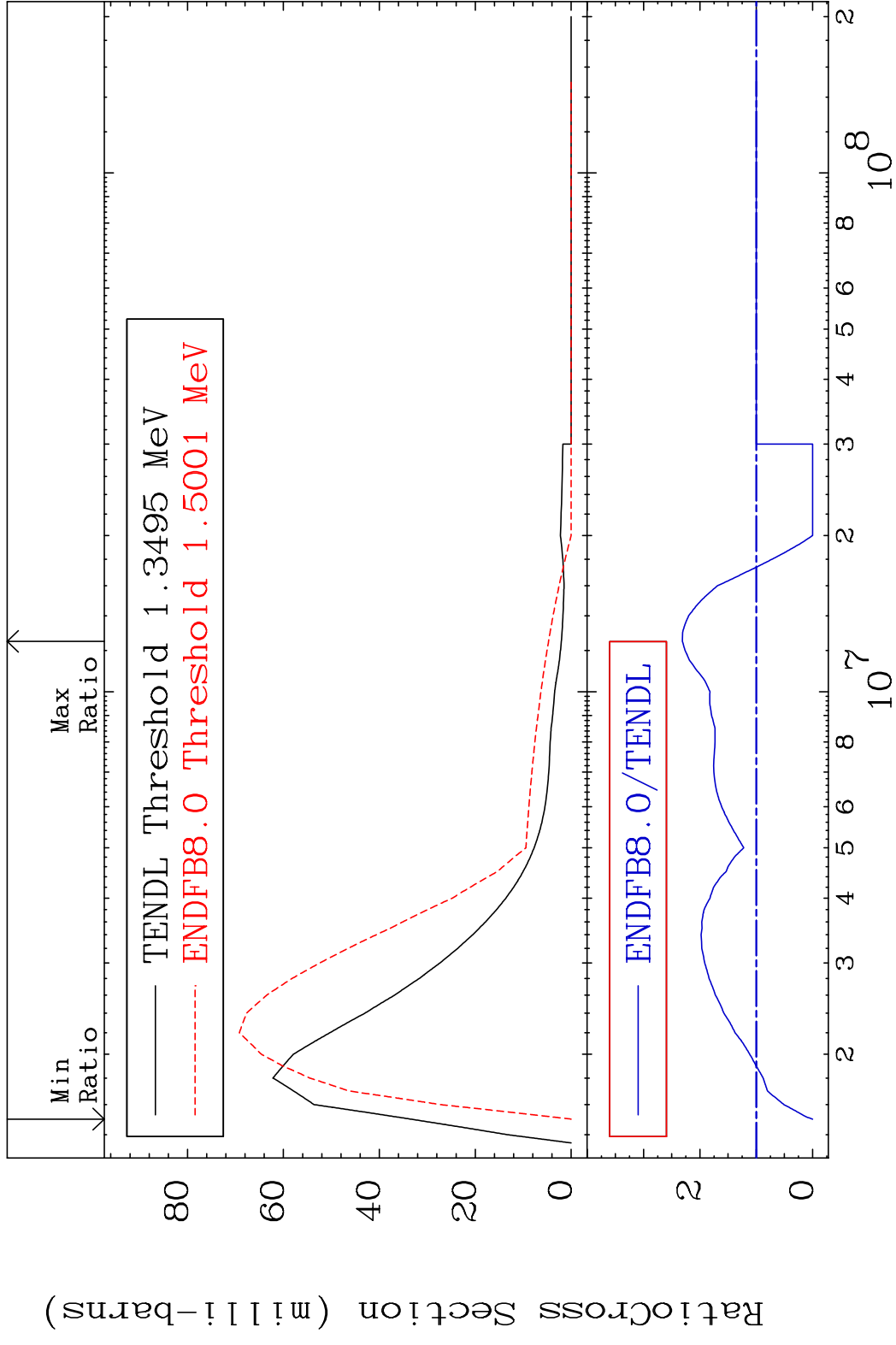
MAT 4125 MT= 63 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 3666. %



MAT 4125 MT= 64 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 9999. %

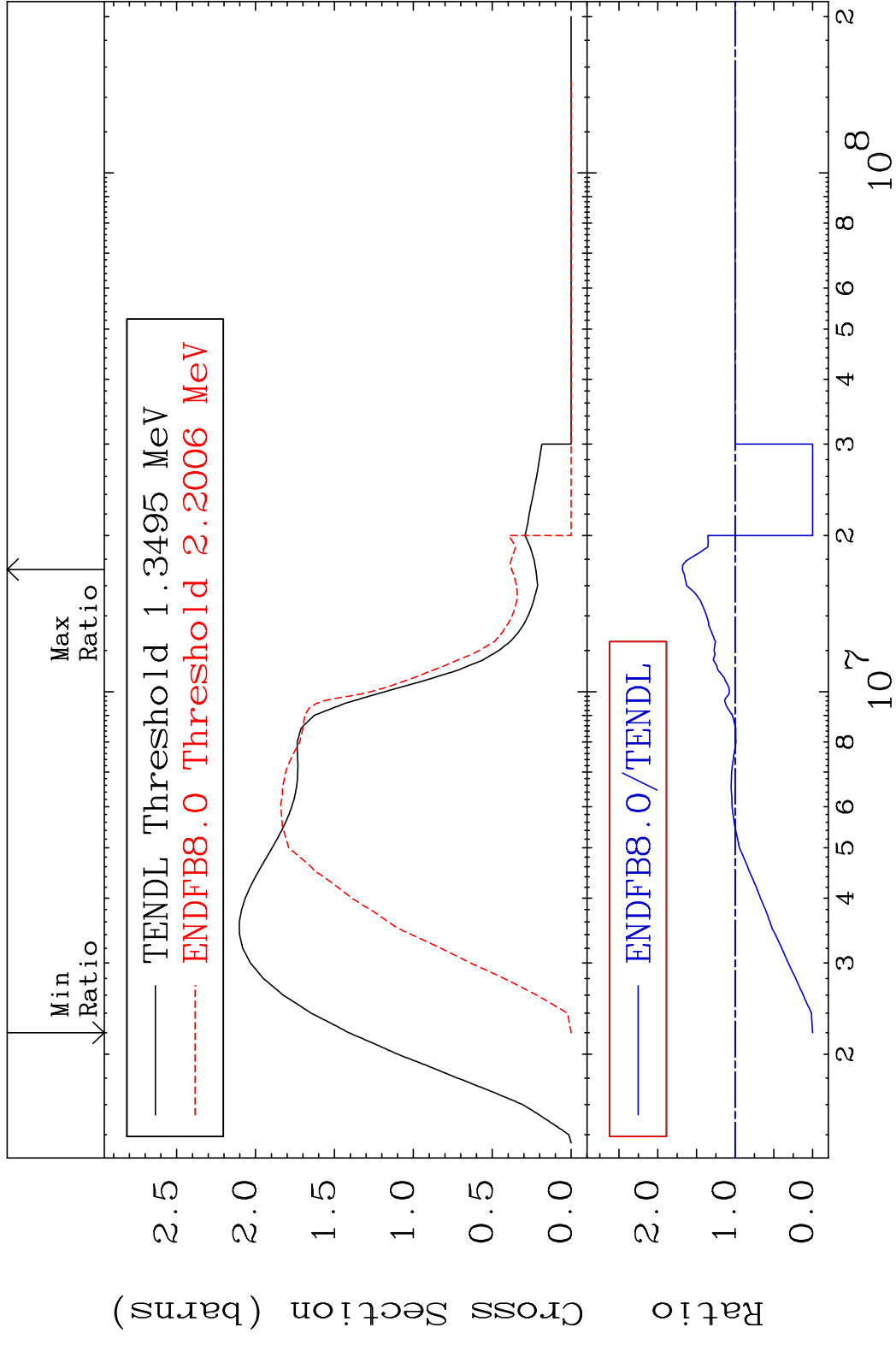


MAT 4125 MT= 65 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 131.2 %



25 Incident Energy (eV) 41-Nb-93

MAT 4125 (n, n') Continuum 41-Nb-93
 Cross Section -100.0 To 68.24 %

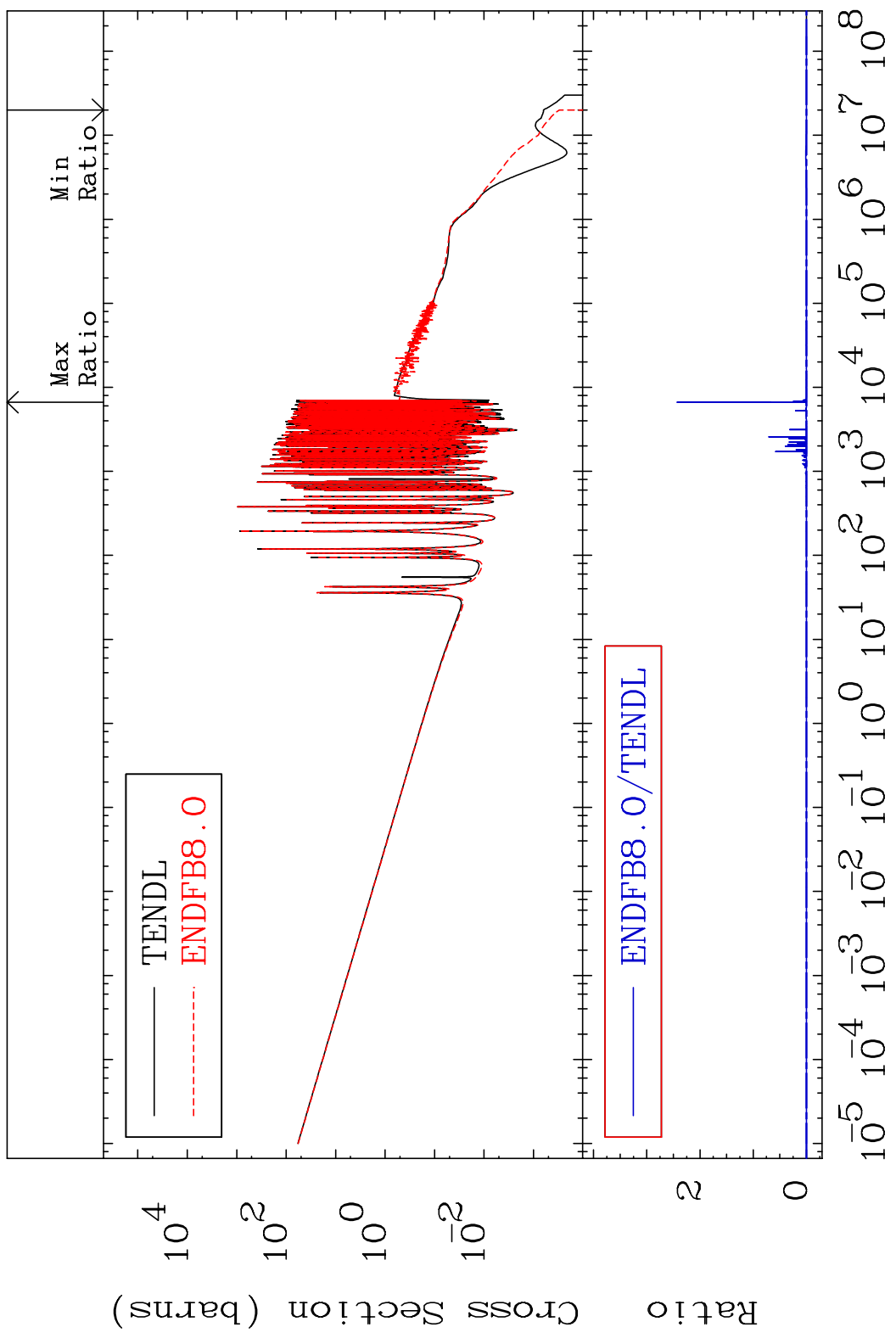


MAT 4125

(n, γ)

41-Nb-93

Cross Section -100.0 To 9999. %



27

Incident Energy (eV)

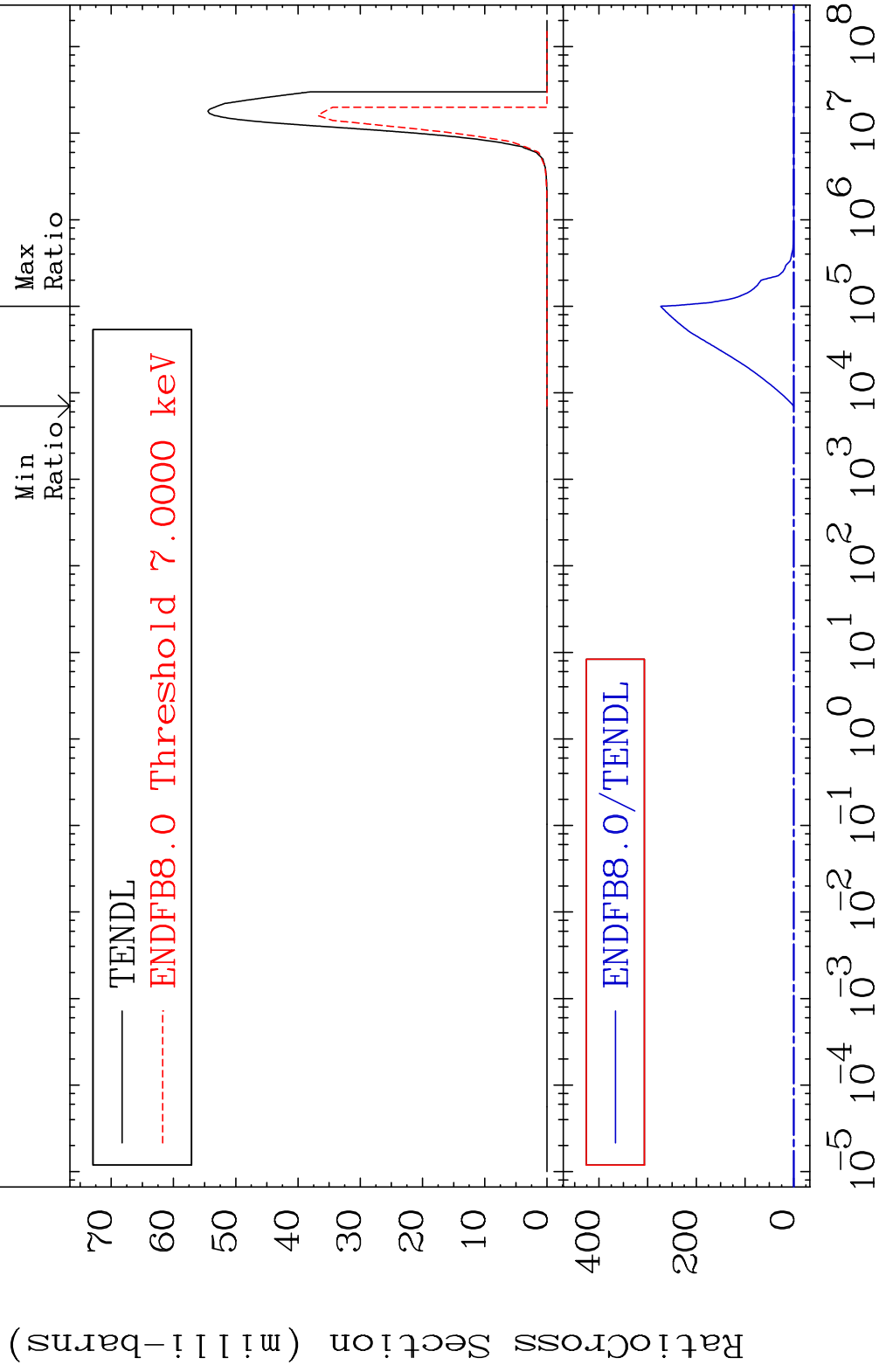
41-Nb-93

MAT 4125

(n, p)

41-Nb-93

Cross Section -100.0 To 9999. %



28

Incident Energy (eV)

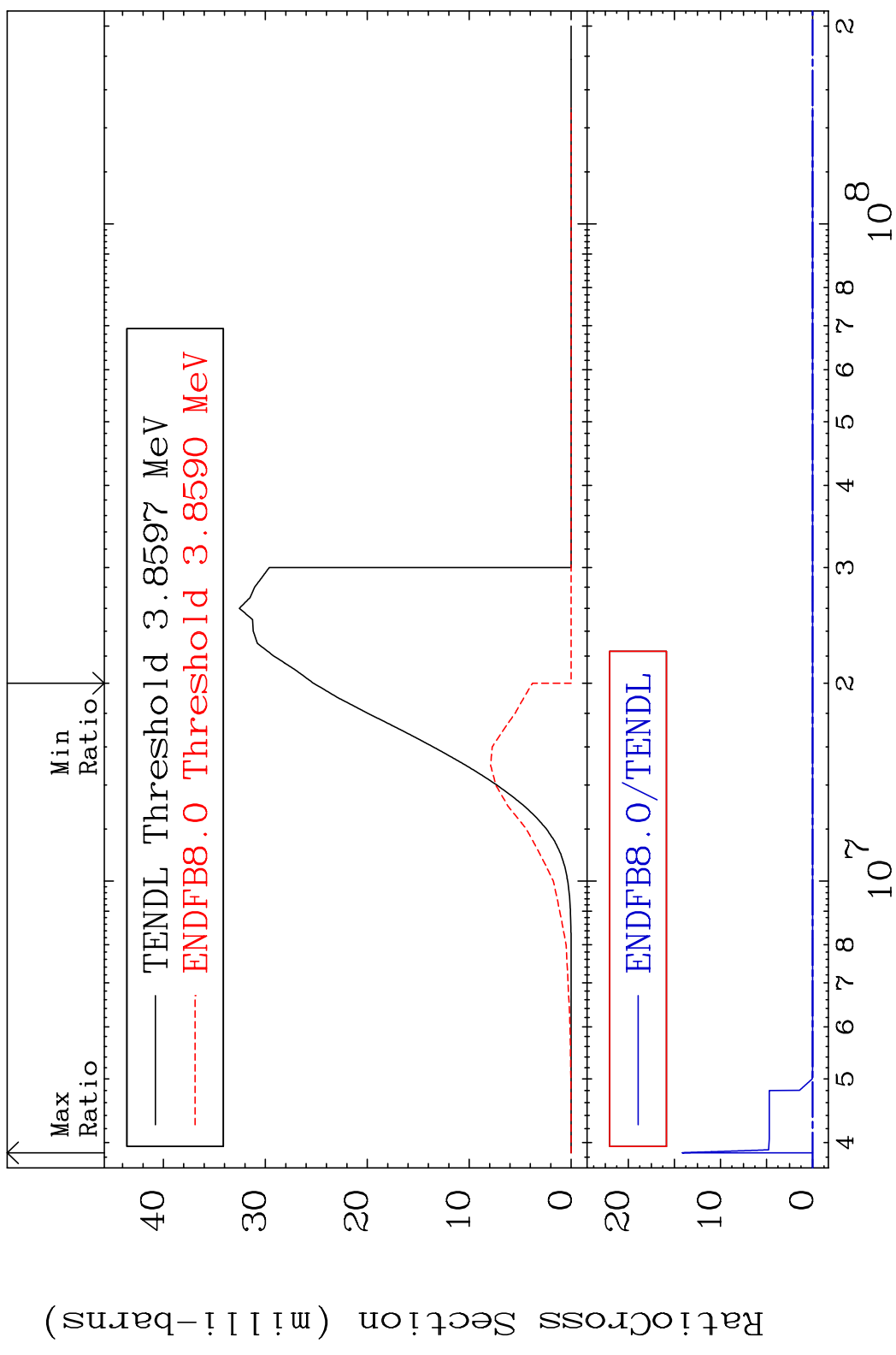
41-Nb-93

MAT 4125

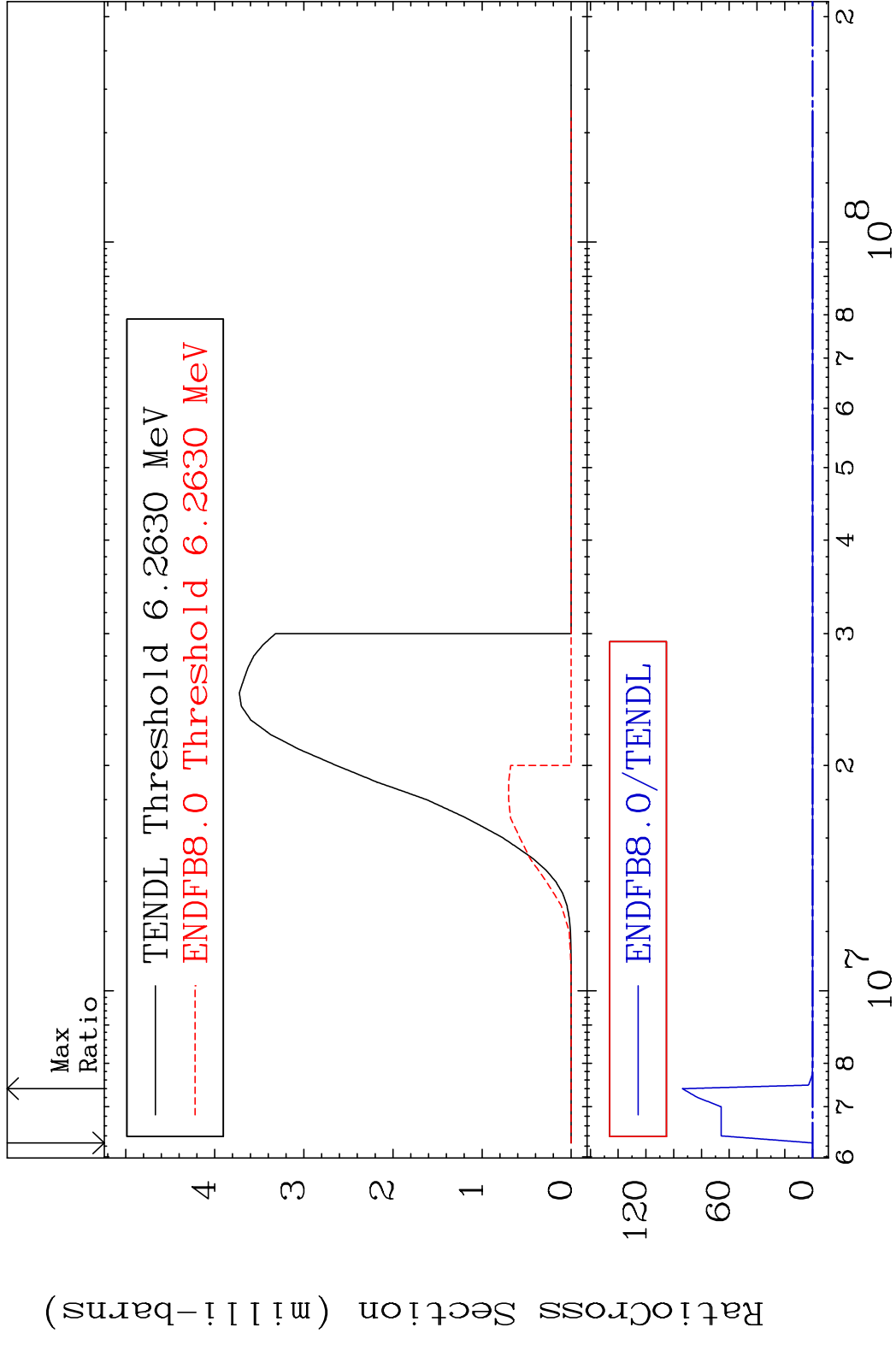
(n,d)

41-Nb-93

Cross Section -100.0 To 9999. %



MAT 4125 (n, t) 41-Nb-93
 Cross Section -100.0 To 9999. %



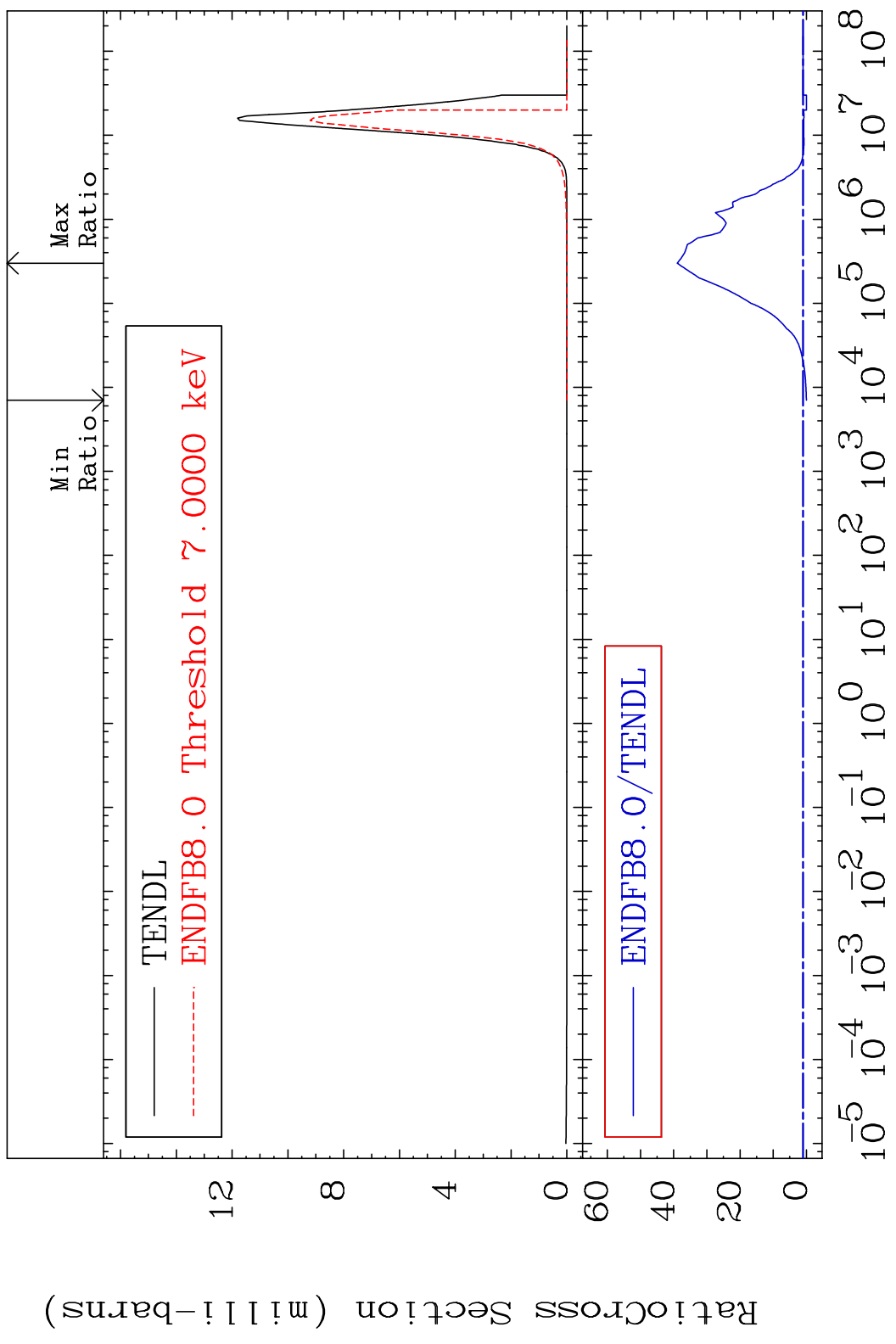
30 Incident Energy (eV) 41-Nb-93

MAT 4125

(n, α)

41-Nb-93

Cross Section -100.0 To 3795. %



31

Incident Energy (eV)

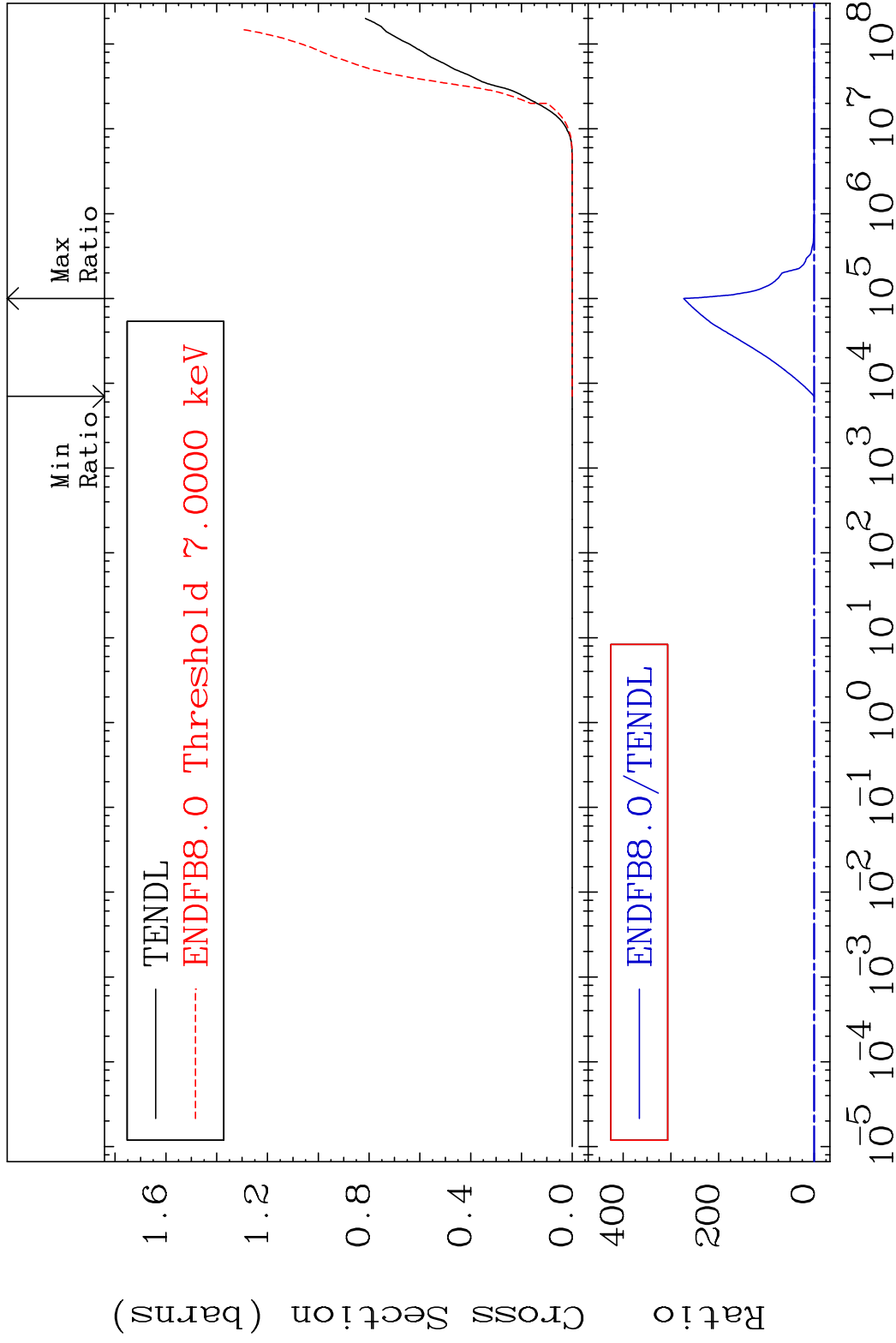
41-Nb-93

MAT 4125

Hydrogen Production

41-Nb-93

Cross Section -100.0 To 9999. %

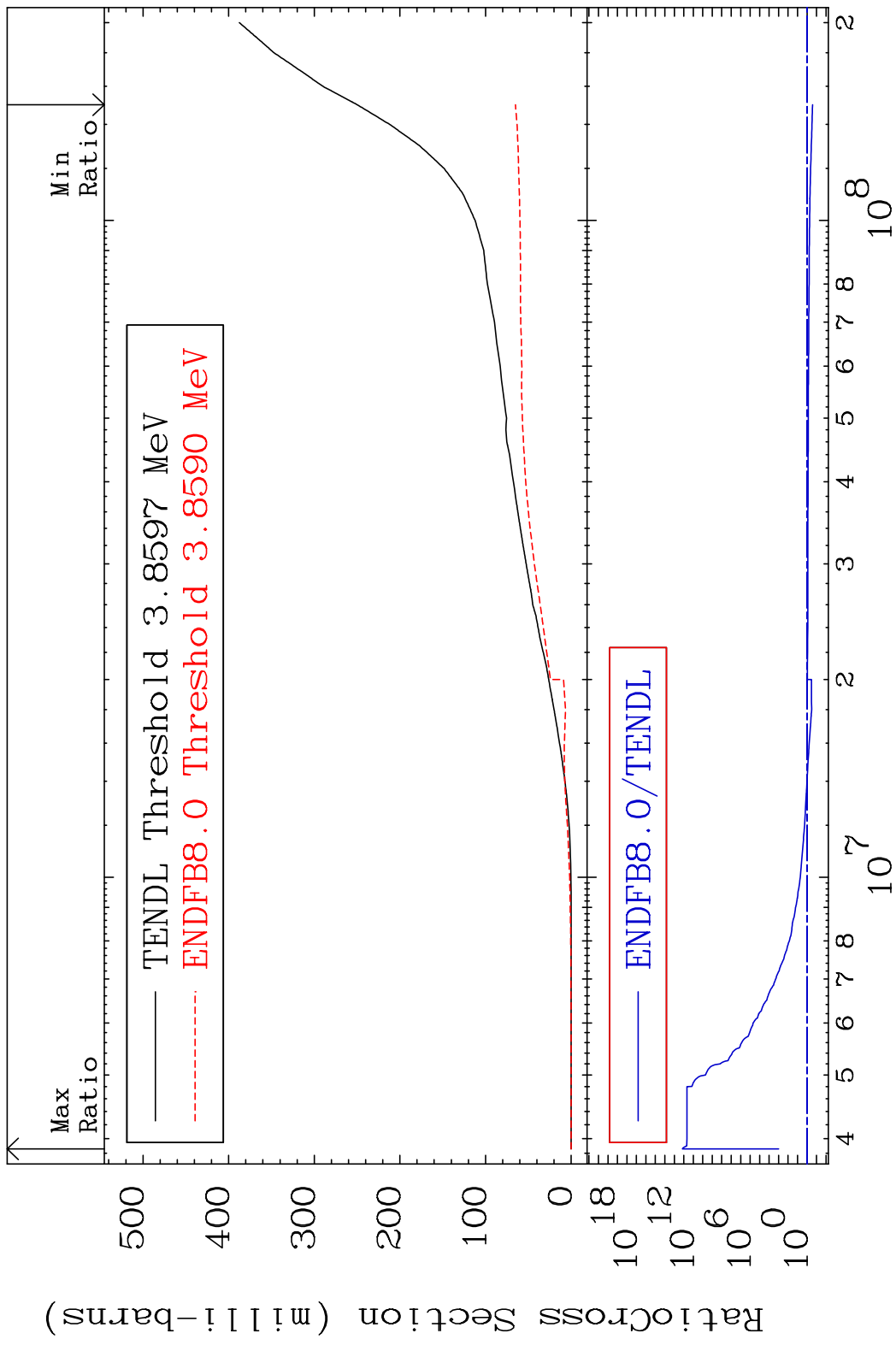


32

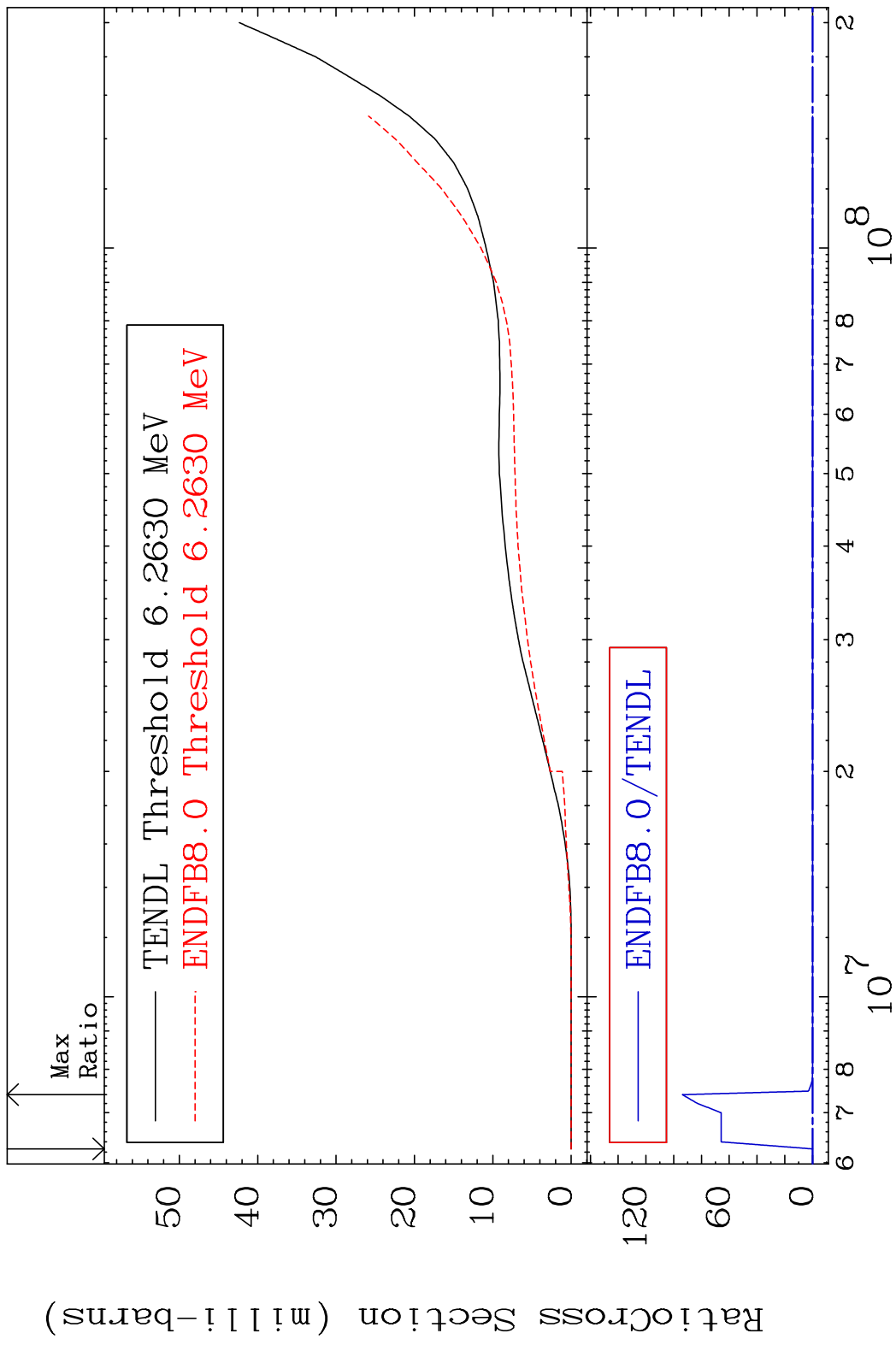
Incident Energy (eV)

41-Nb-93

MAT 4125 Deuterium Production 41-Nb-93
 Cross Section -73.93 To 9999. %



MAT 4125 Tritium Production 41-Nb-93
 Cross Section -100.0 To 9999. %

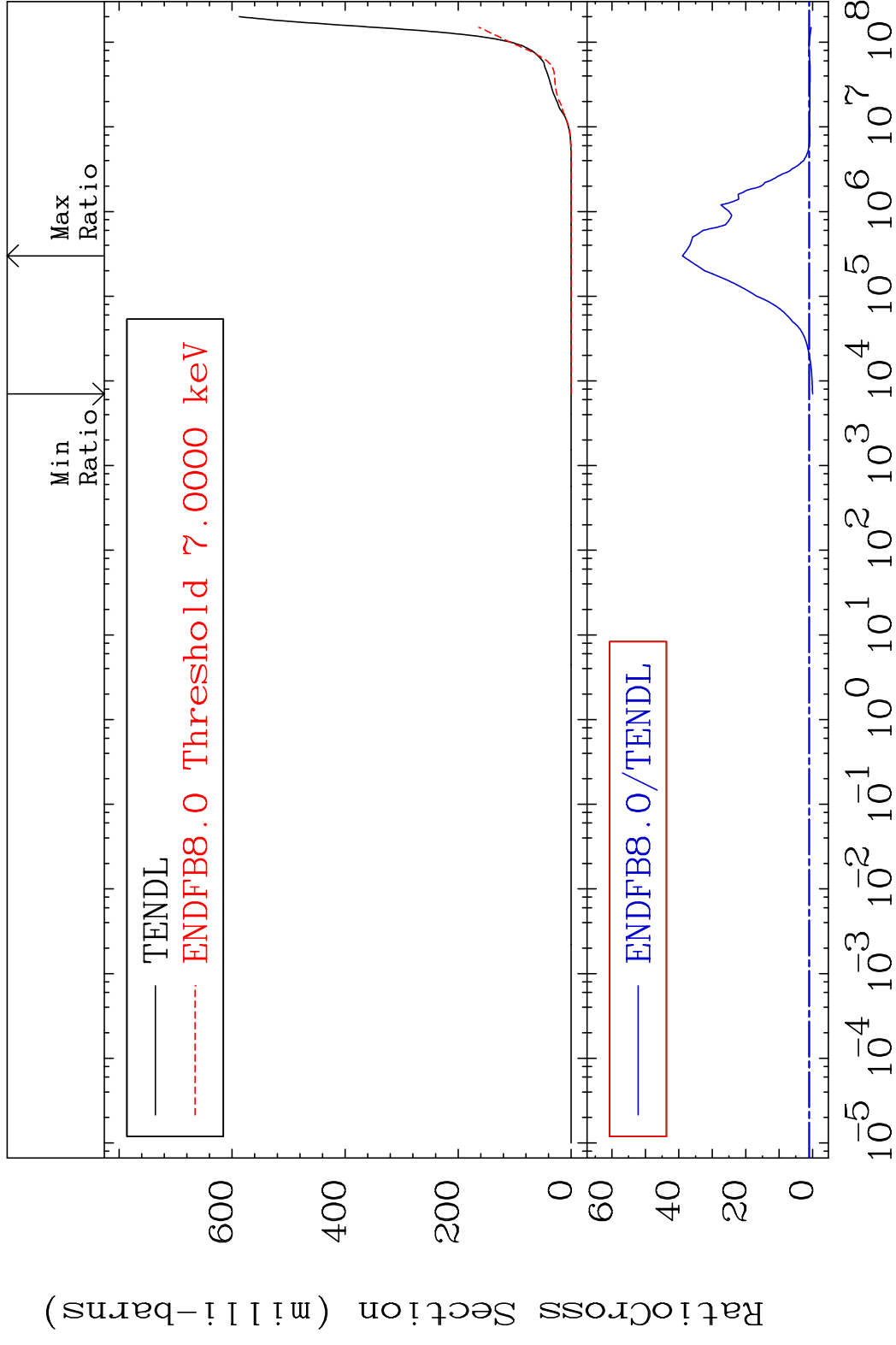


MAT 4125

He-4 Production

41-Nb-93

Cross Section -100.0 To 3795. %

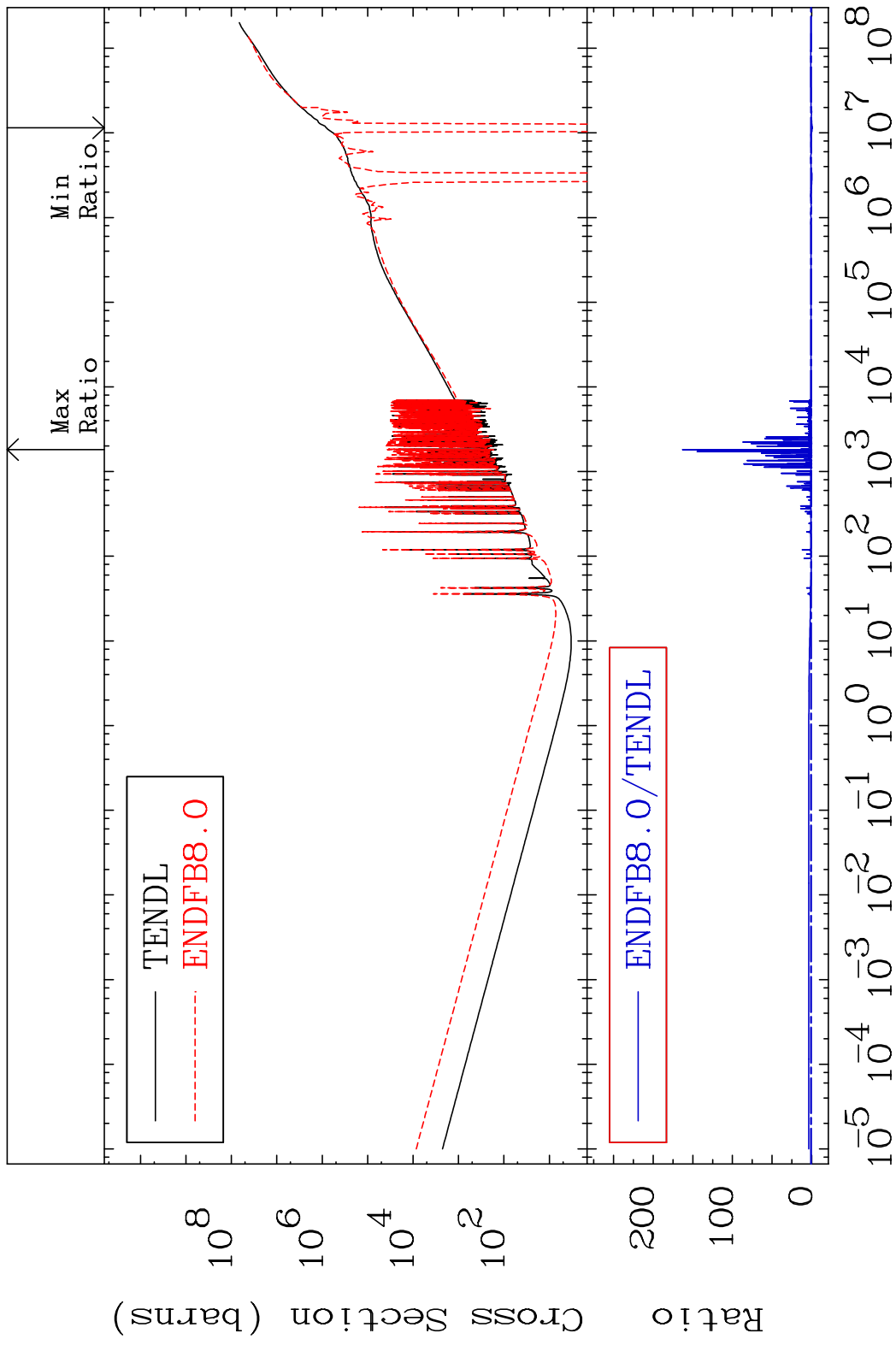


35

Incident Energy (eV)

41-Nb-93

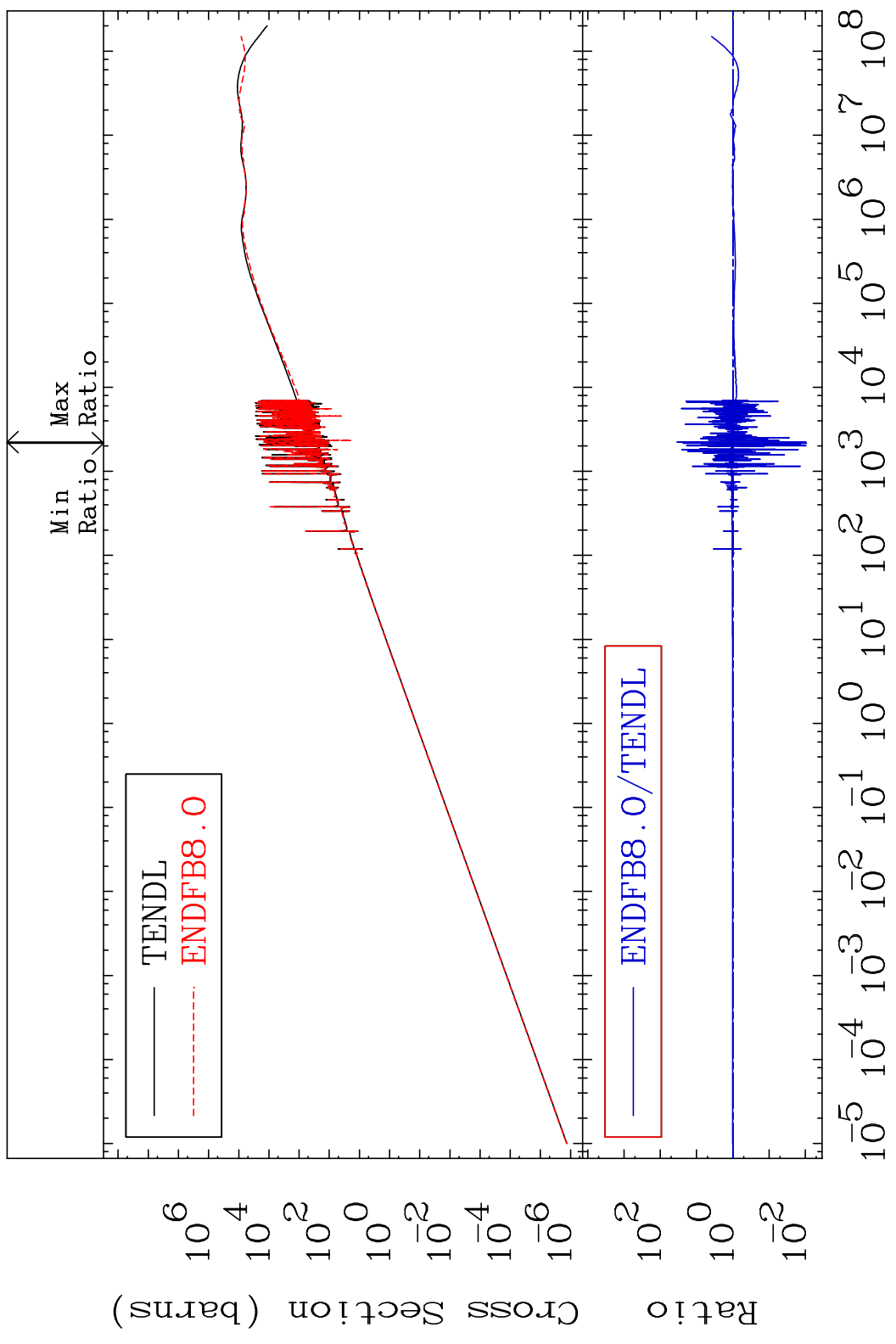
MAT 4125 Kerma total (eV-barns) 41-Nb-93
 Cross Section -199.0 To 9999.0 %



36 Incident Energy (eV) 41-Nb-93

MAT 4125

Kerma elastic Cross Section -99.07 To 3320. %
41-Nb-93

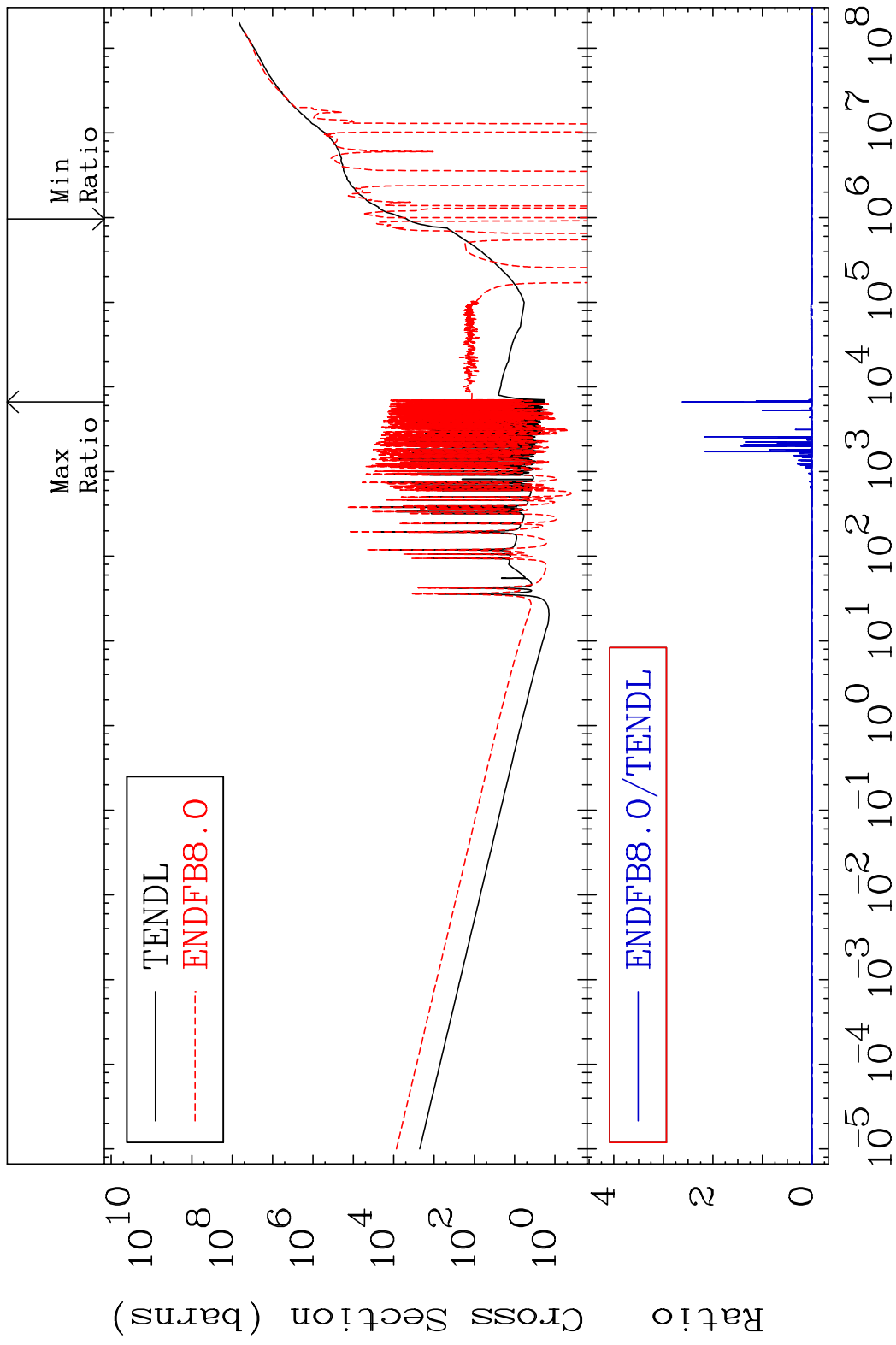


37

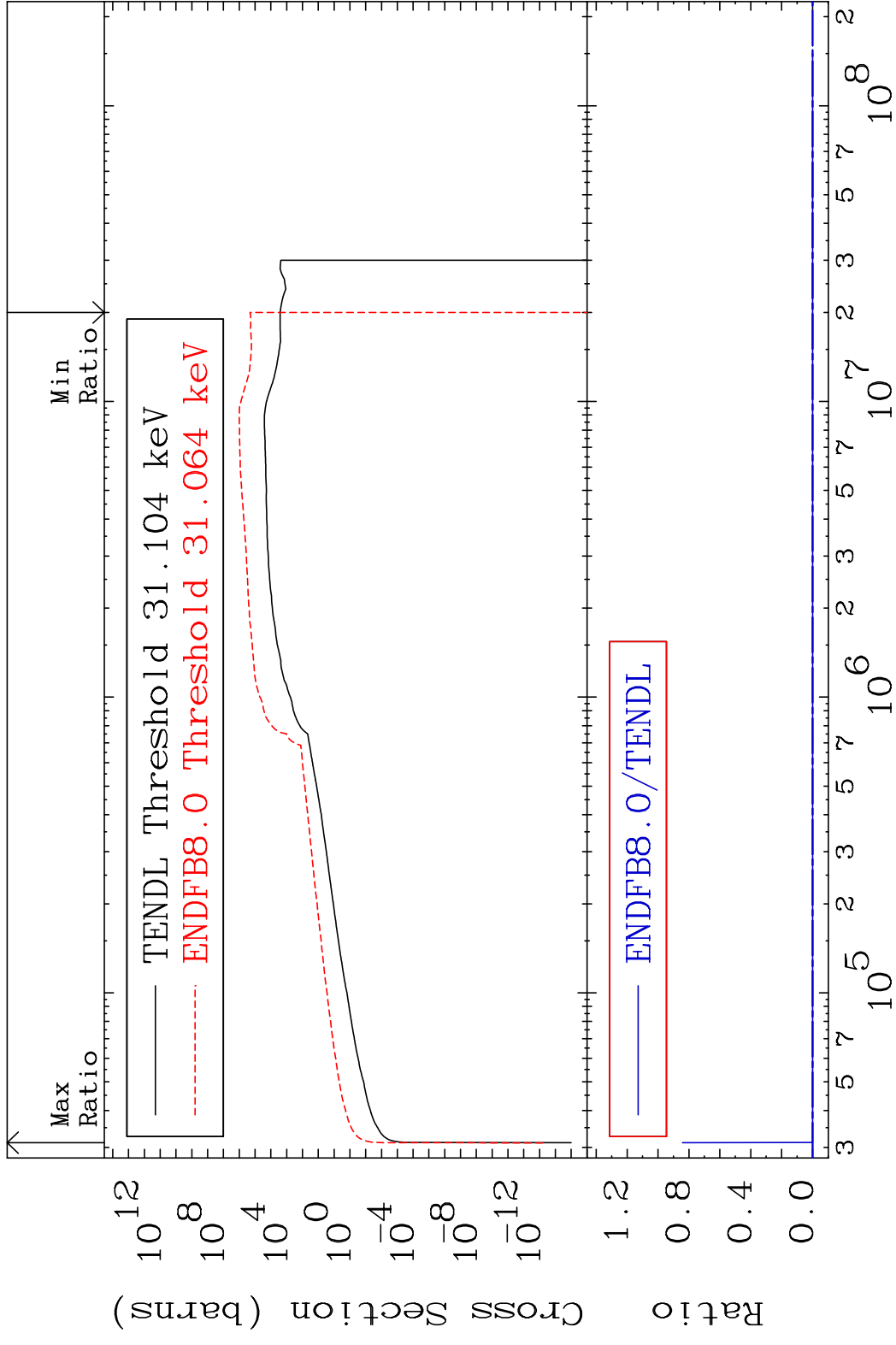
Incident Energy (eV)

41-Nb-93

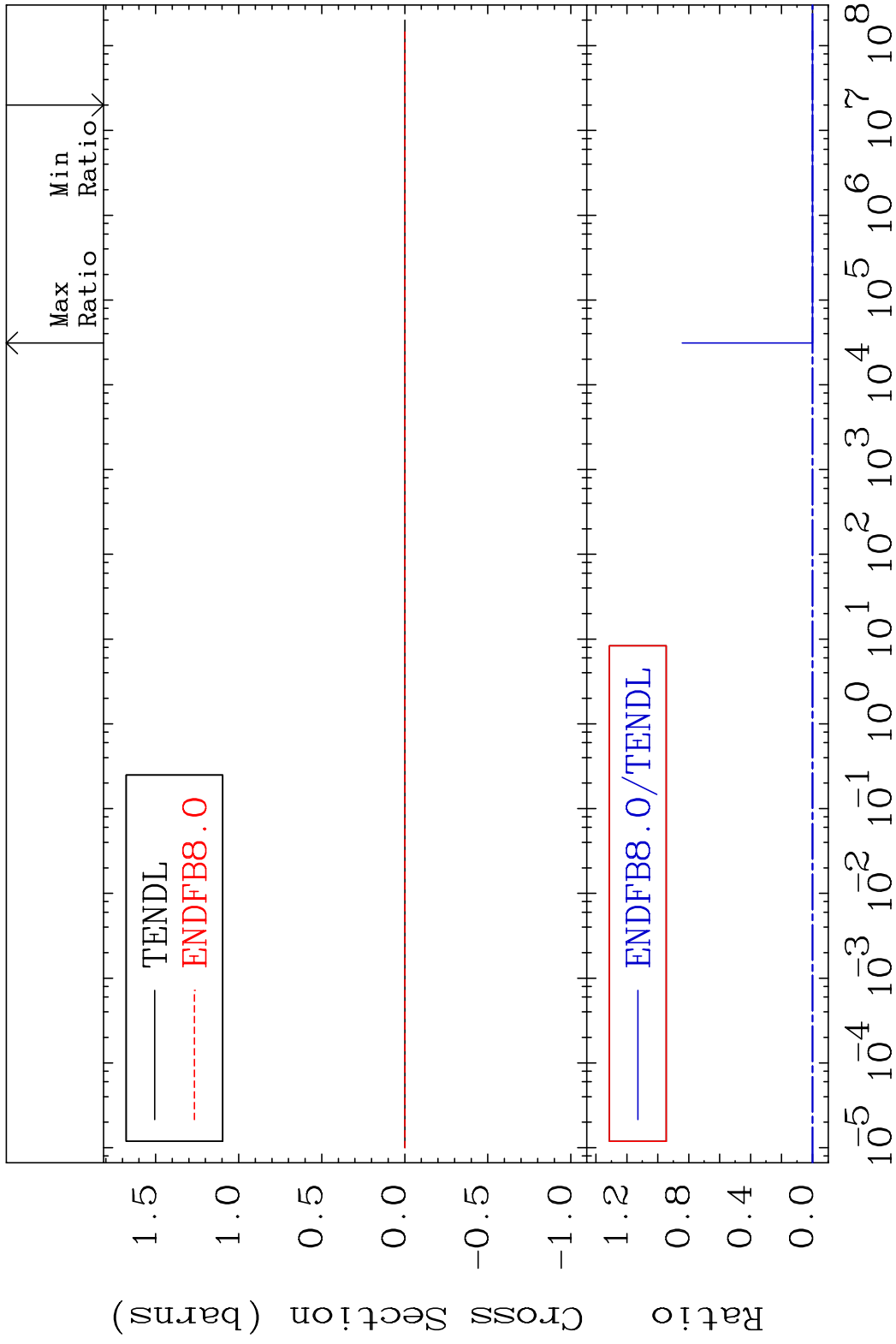
MAT 4125 Kerma non-elastic (all but mt2) 41-Nb-93
 Cross Section -1057. To 9999. %



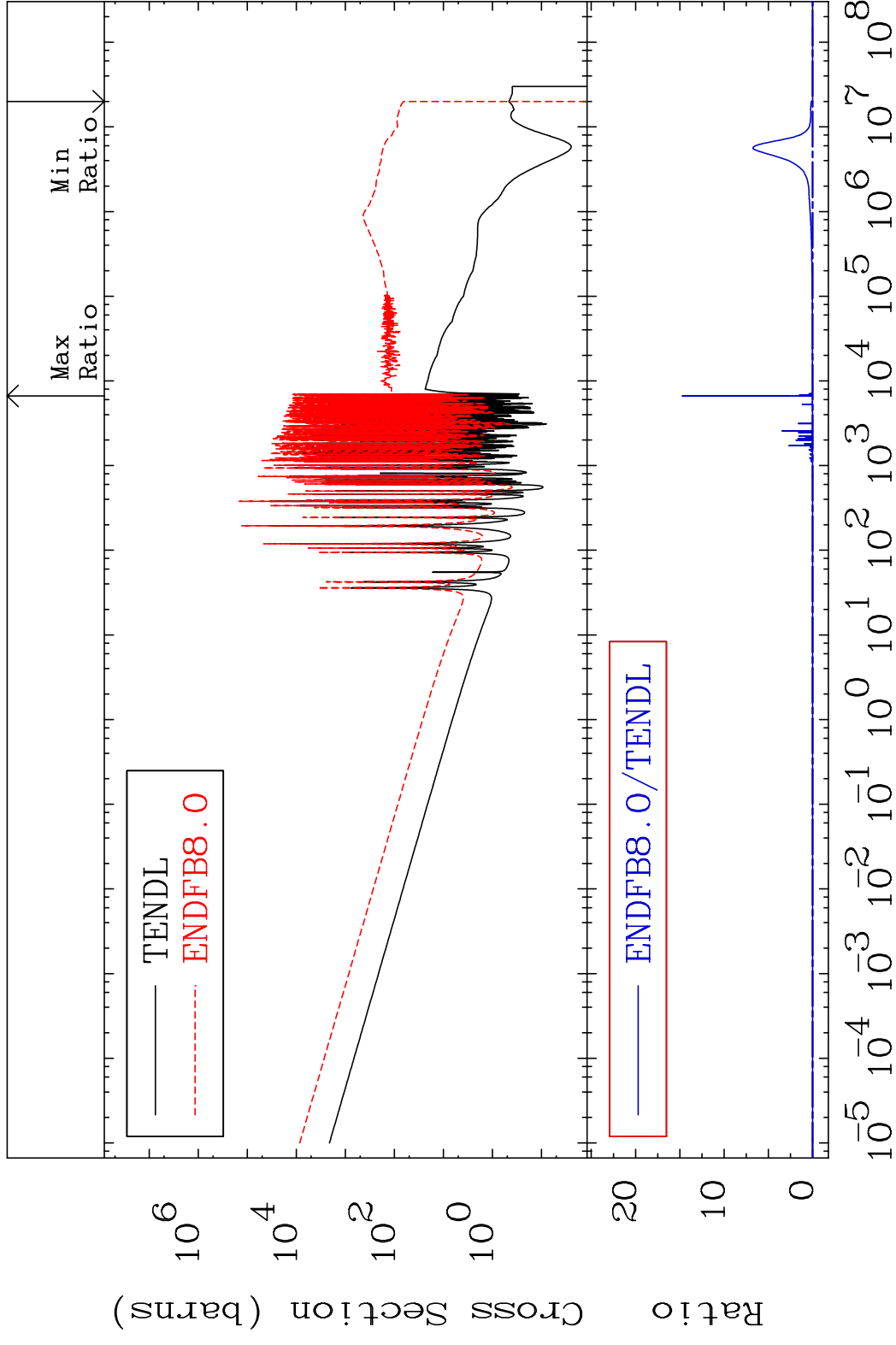
MAT 4125 Kerma inelastic (mt51-91) 41-Nb-93
 Cross Section -100.0 To 9999. %



MAT 4125 Kerma fission (mt18 or mt19-20-21-38) 41-Nb-93
 Cross Section -100.0 To 9999. %



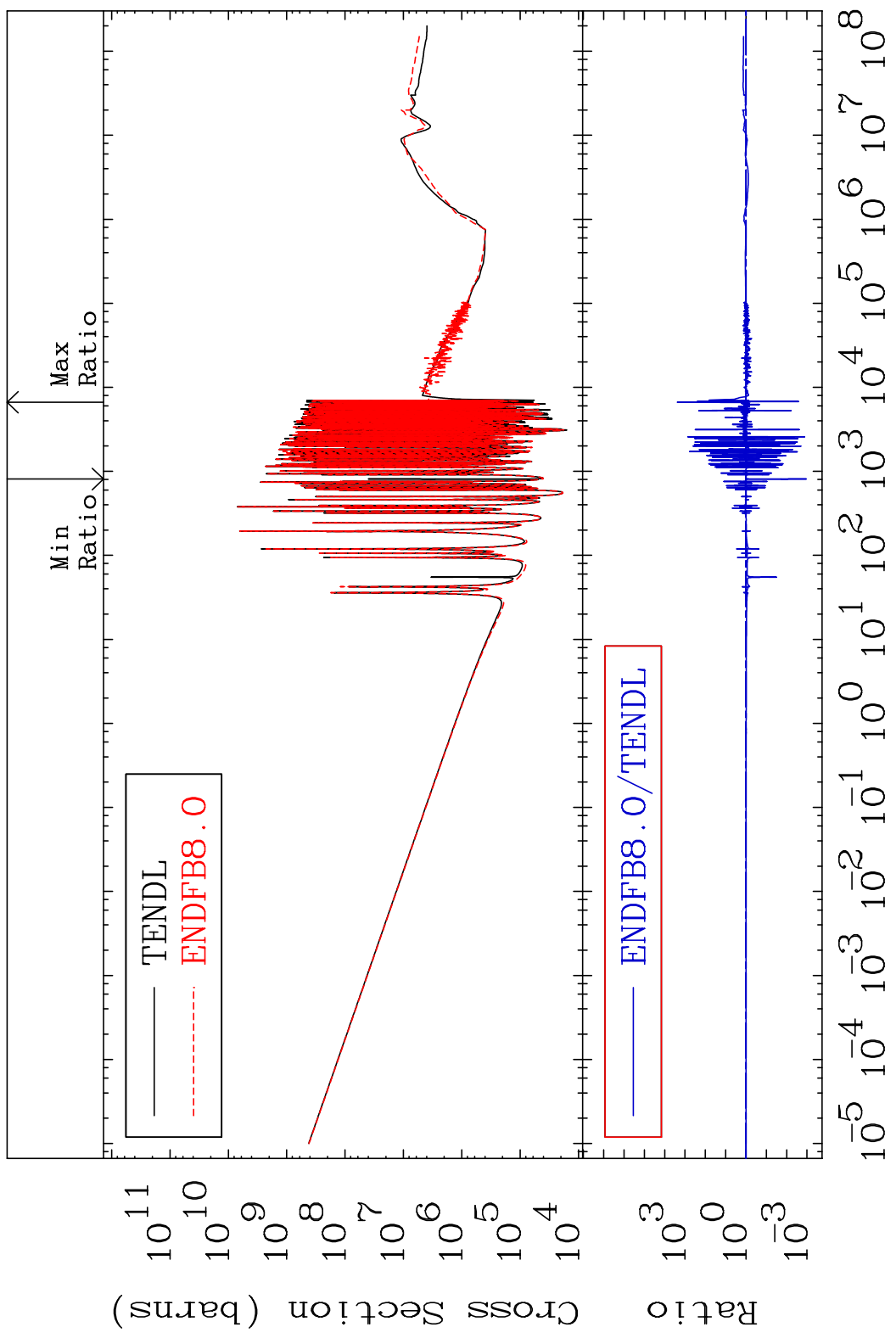
MAT 4125 Kerma capture (mt102) 41-Nb-93
 Cross Section -100.0 To 9999. %



41 Incident Energy (eV) 41-Nb-93

MAT 4125

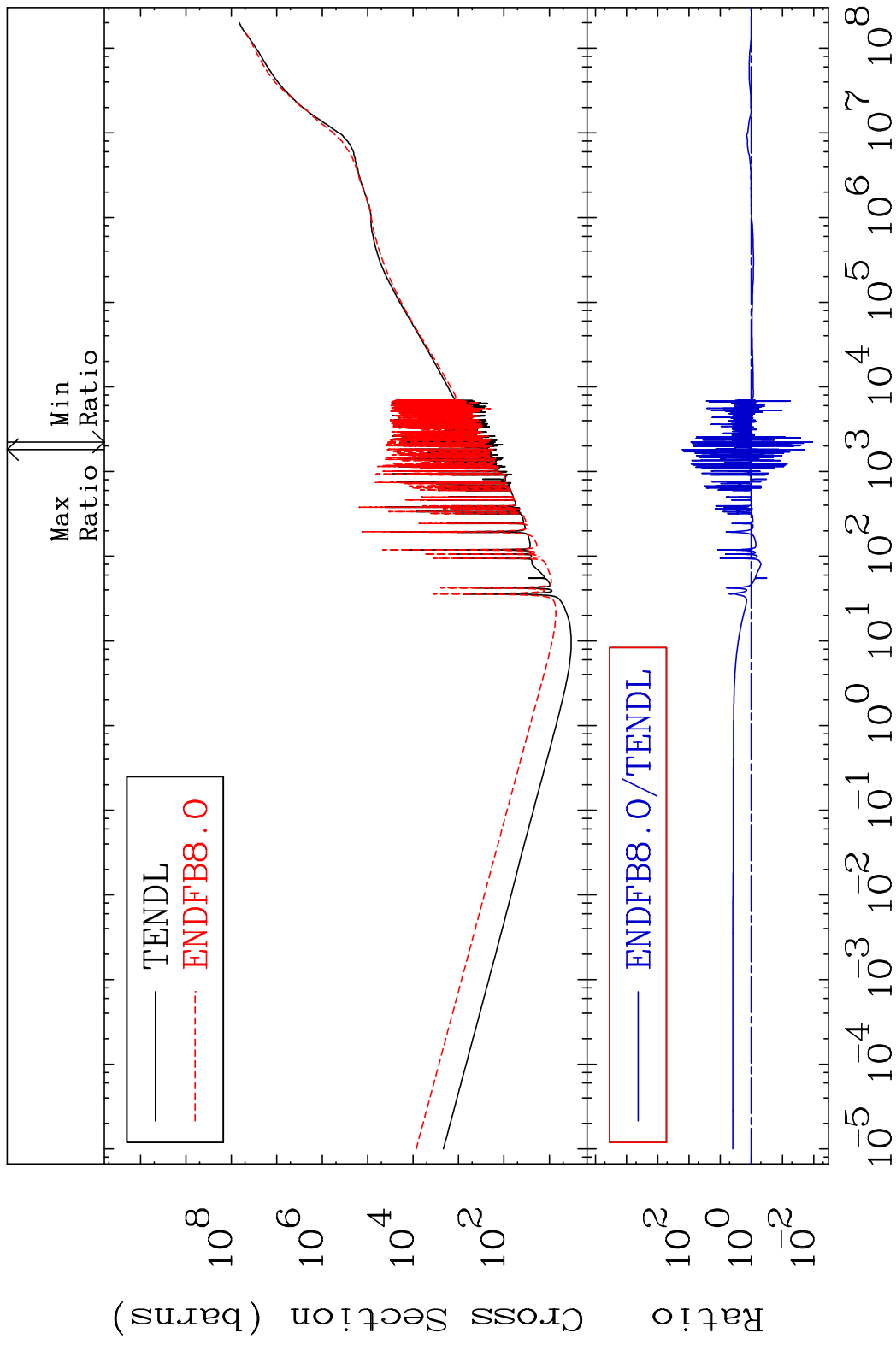
Total photon (eV-barns) 41-Nb-93
Cross Section -99.89 To 9999. %



42

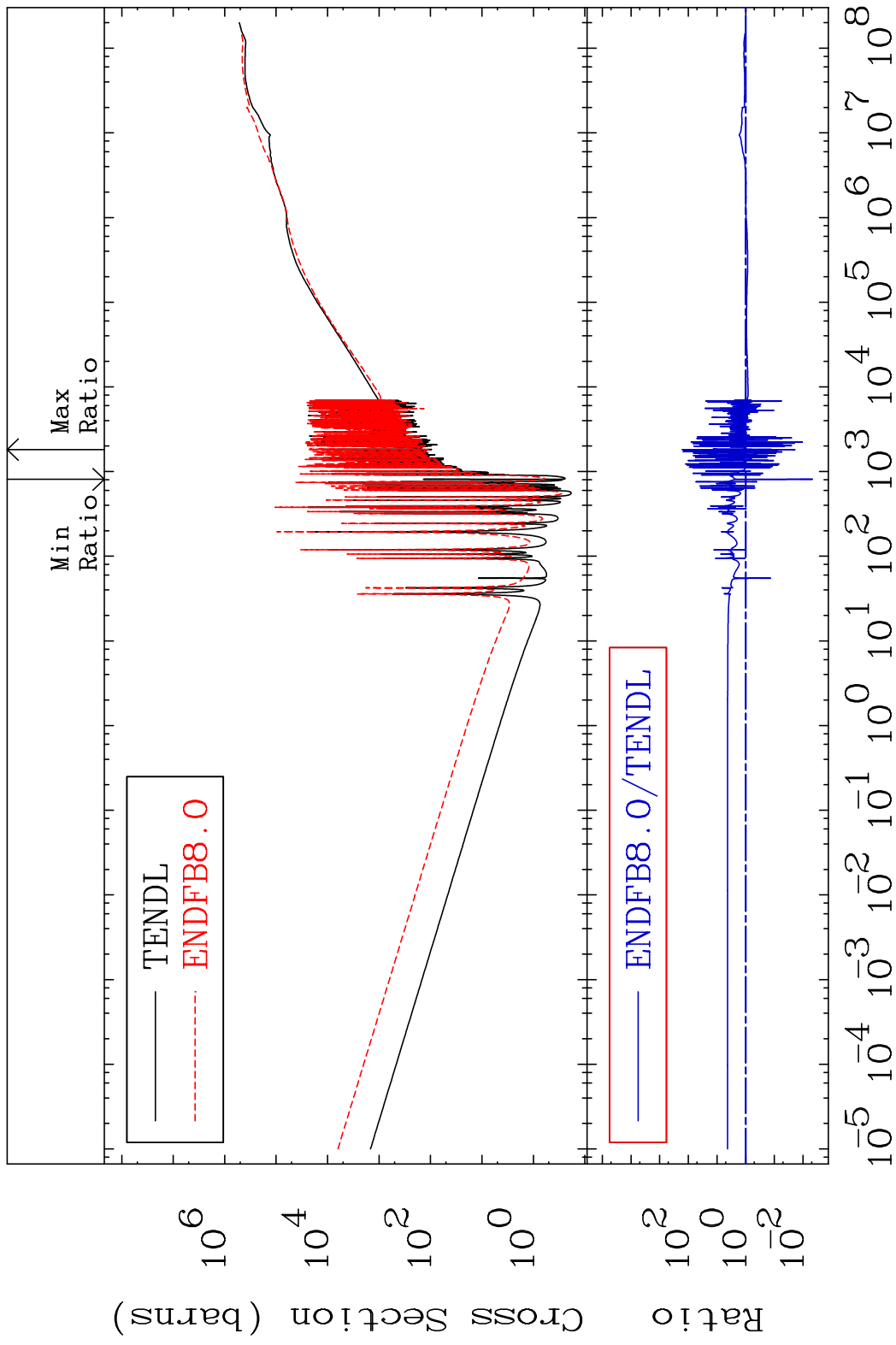
Incident Energy (eV) 41-Nb-93

MAT 4125 Total kinematic kerma (high limit) 41-Nb-93
 Cross Section -98.91 To 9999. %



43 Incident Energy (eV) 41-Nb-93

MAT 4125 Dpa total (eV-barns) 41-Nb-93
 Cross Section -99.53 To 9999. %

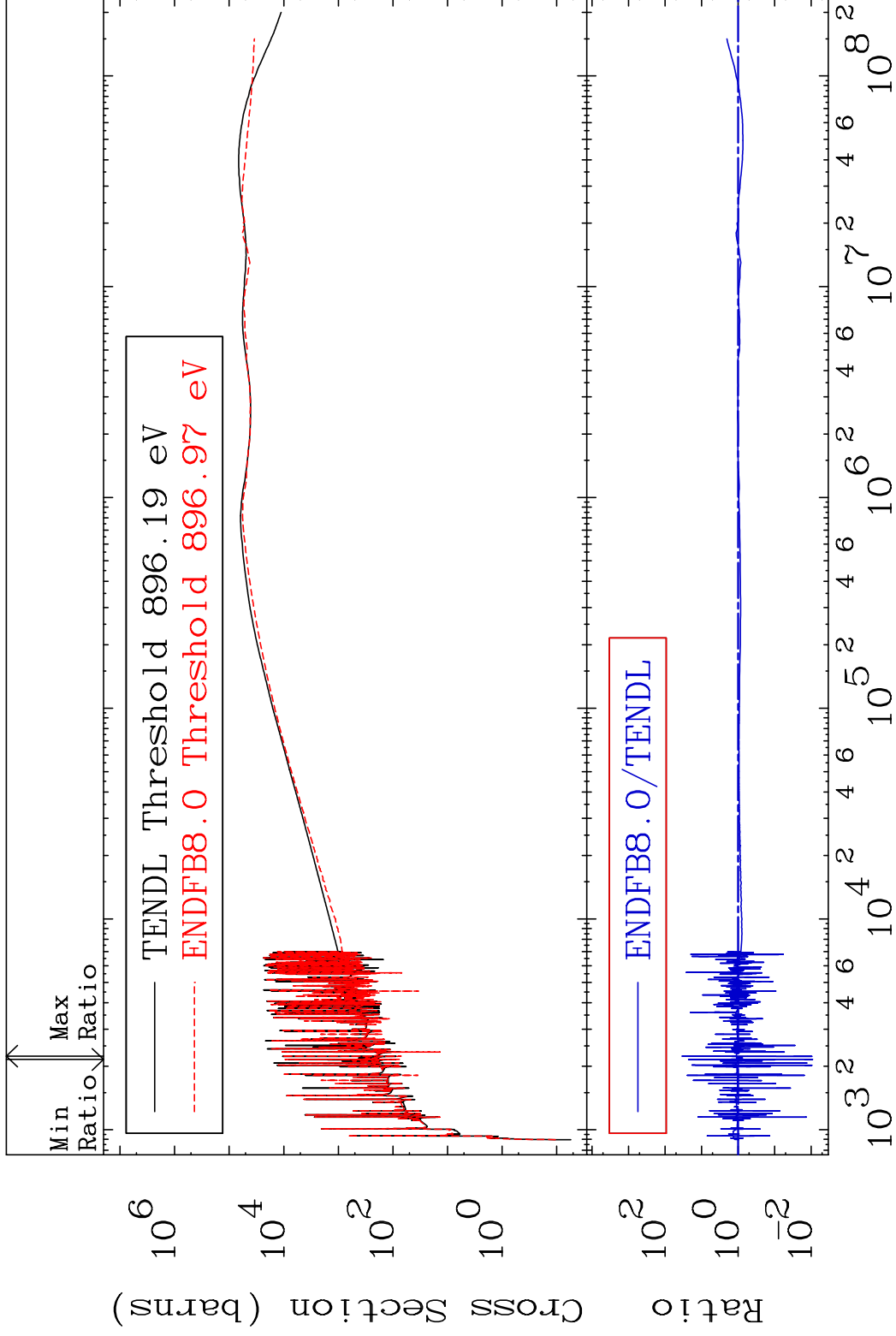


MAT 4125

Dpa elastic (mt2)

41-Nb-93

Cross Section -99.09 To 3293. %

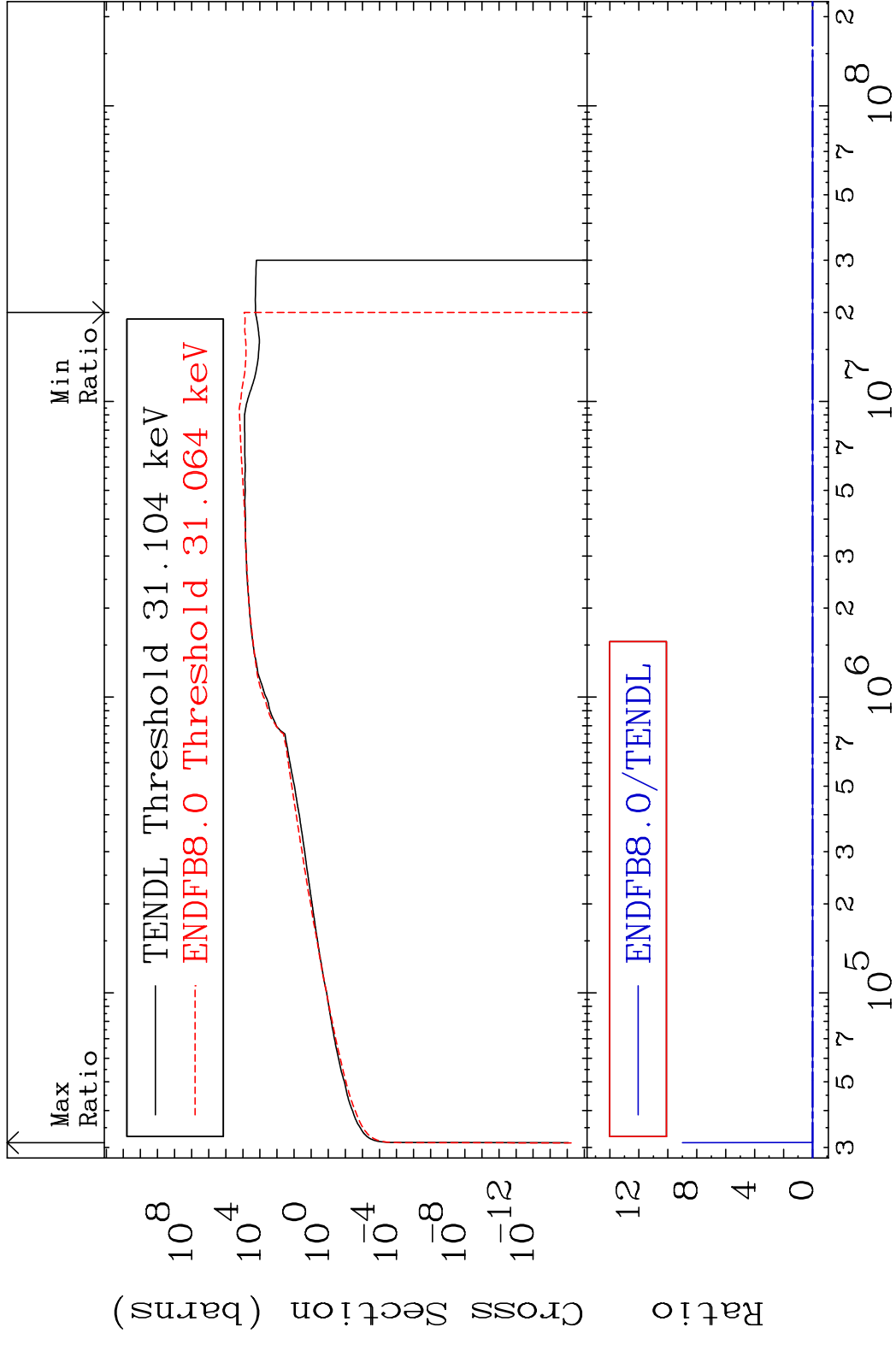


45

Incident Energy (eV)

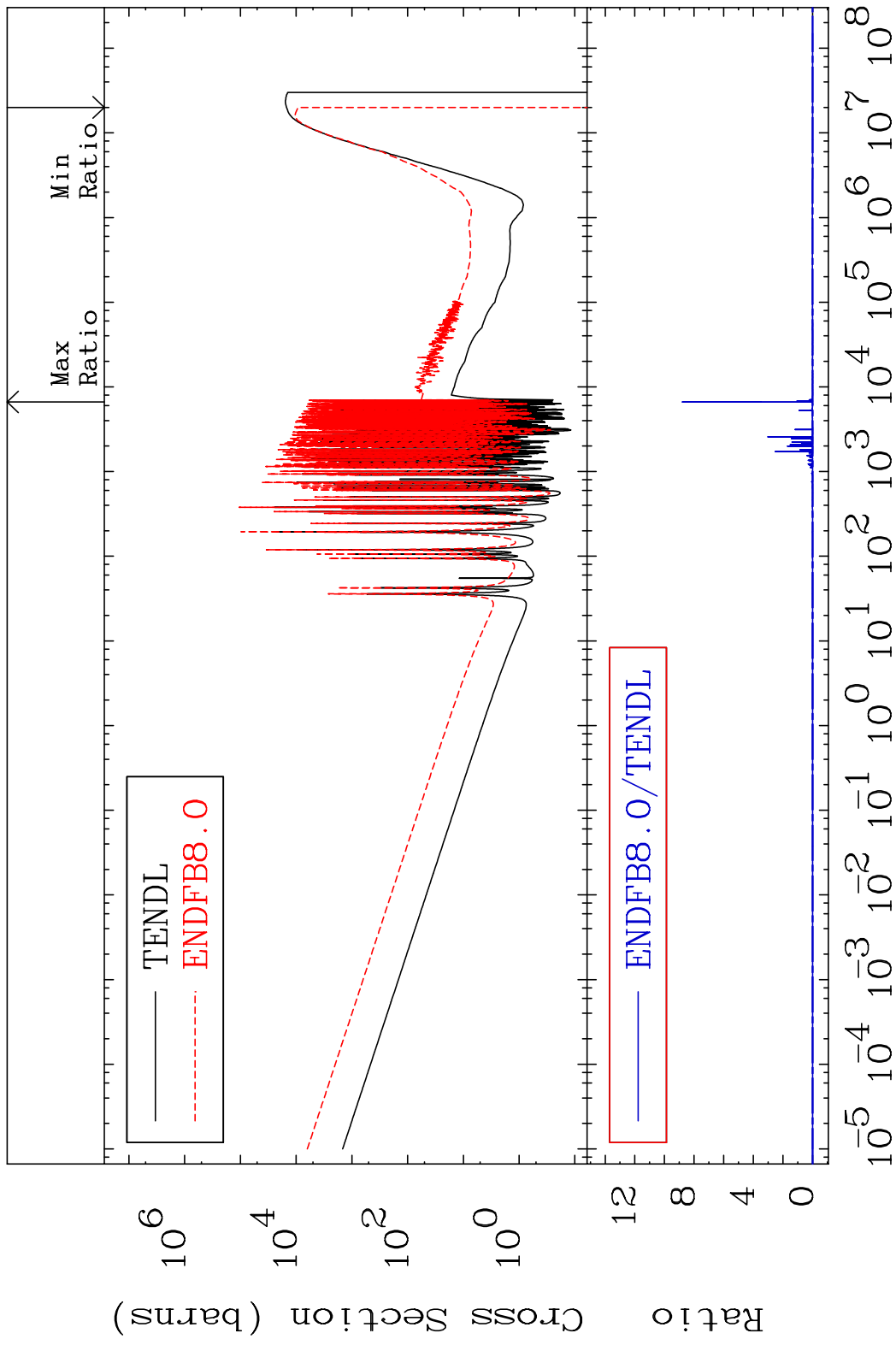
41-Nb-93

MAT 4125 Dpa inelastic (mt51-91) 41-Nb-93
 Cross Section -100.0 To 9999. %



46 Incident Energy (eV) 41-Nb-93

MAT 4125 Dpa disappearance (mt102 -120) 41-Nb-93
 Cross Section -100.0 To 9999. %



47 Incident Energy (eV) 41-Nb-93

