

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

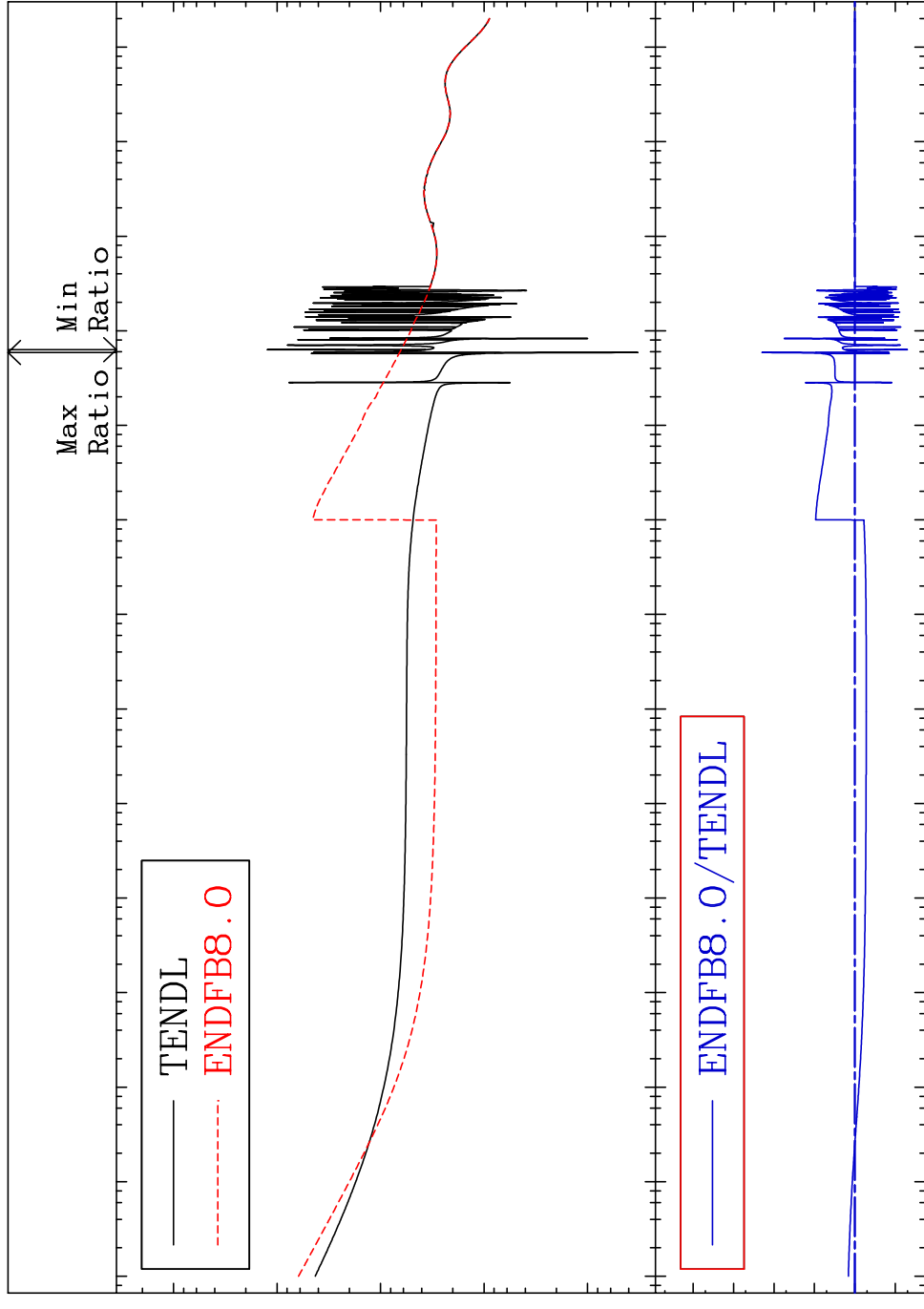
MAT 2043

Total

20-Ca-46

Cross Section

-94.91 To 9999. %



$10^3$   
 $10^2$   
 $10^1$   
 $10^0$   
 $10^{-1}$

Cross Section (barns)

$10^2$   
 $10^0$

Ratio

$10^{-5}$   $10^{-4}$   $10^{-3}$   $10^{-2}$   $10^{-1}$   $10^0$   $10^1$   $10^2$   $10^3$   $10^4$   $10^5$   $10^6$   $10^7$   $10^8$

Incident Energy (eV)

1

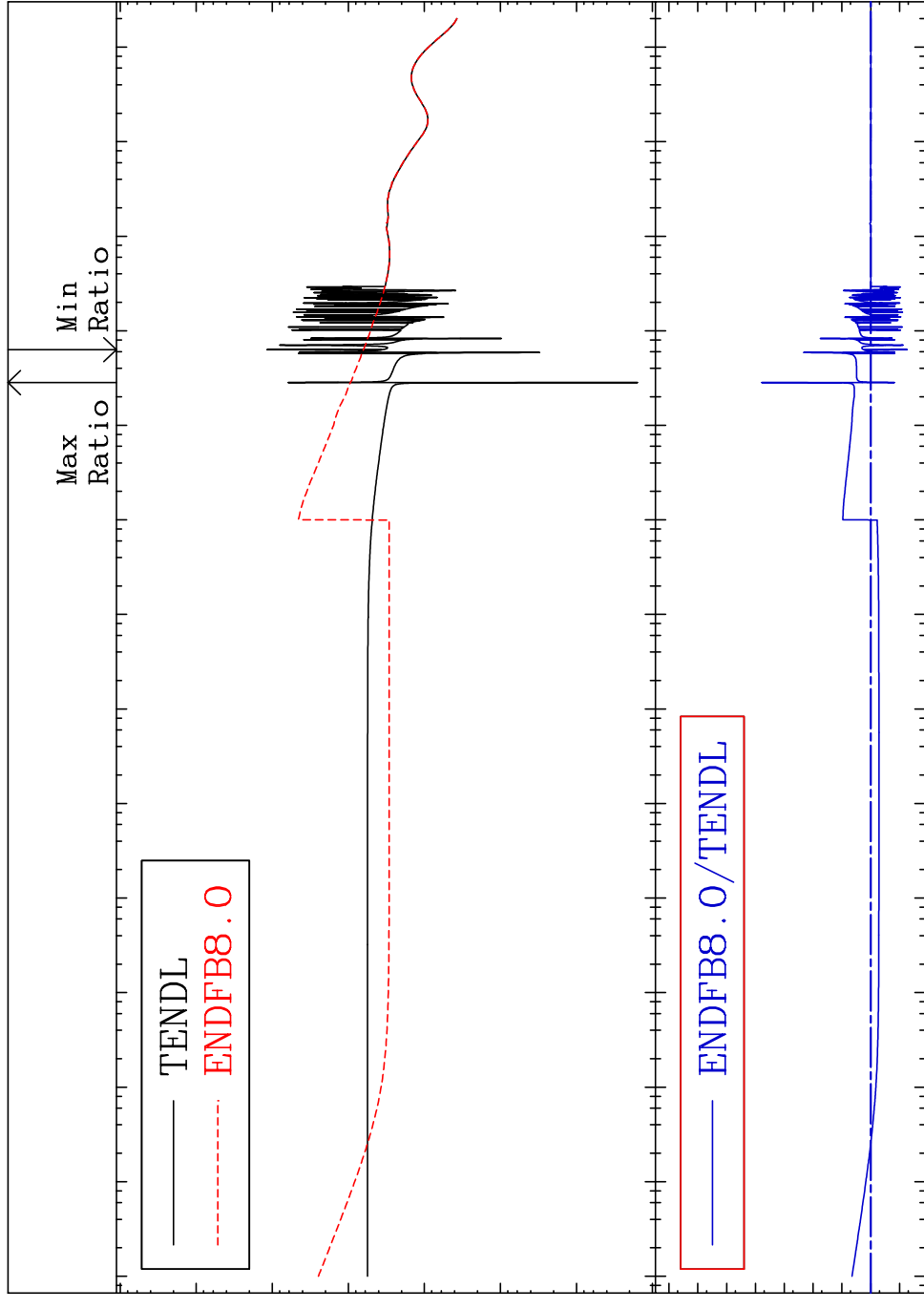
20-Ca-46

MAT 2043

Elastic

20-Ca-46

Cross Section -94.58 To 9999. %



Cross Section (barns)

$10^3$   
 $10^2$   
 $10^1$   
 $10^0$   
 $10^{-1}$   
 $10^{-2}$   
 $10^{-3}$

Ratio

$10^3$   
 $10^0$

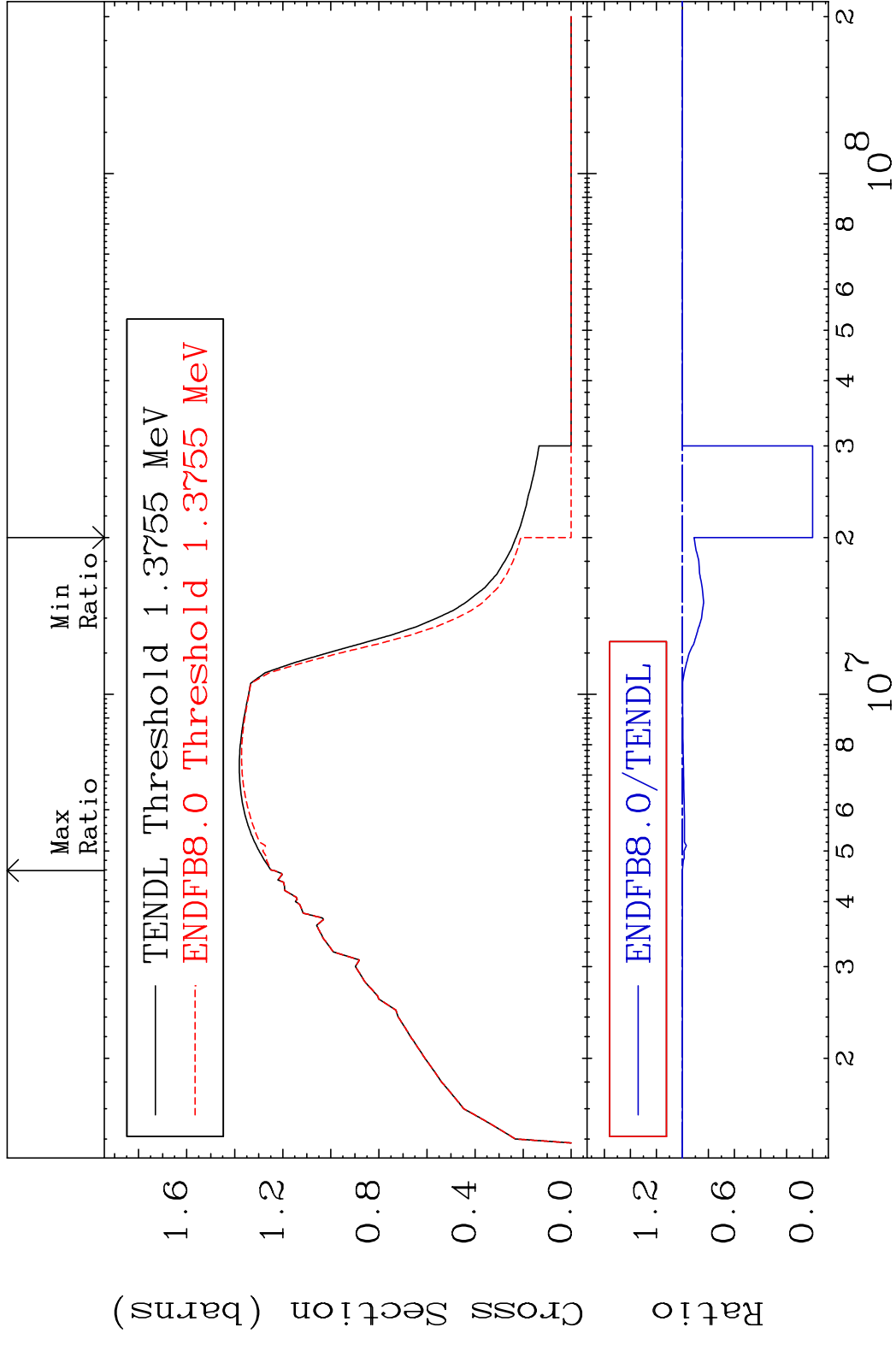
Incident Energy (eV)

$10^{-5}$   $10^{-4}$   $10^{-3}$   $10^{-2}$   $10^{-1}$   $10^0$   $10^1$   $10^2$   $10^3$   $10^4$   $10^5$   $10^6$   $10^7$   $10^8$

2

20-Ca-46

MAT 2043 Inelastic Cross Section -100.0 To 0.078 % 20-Ca-46



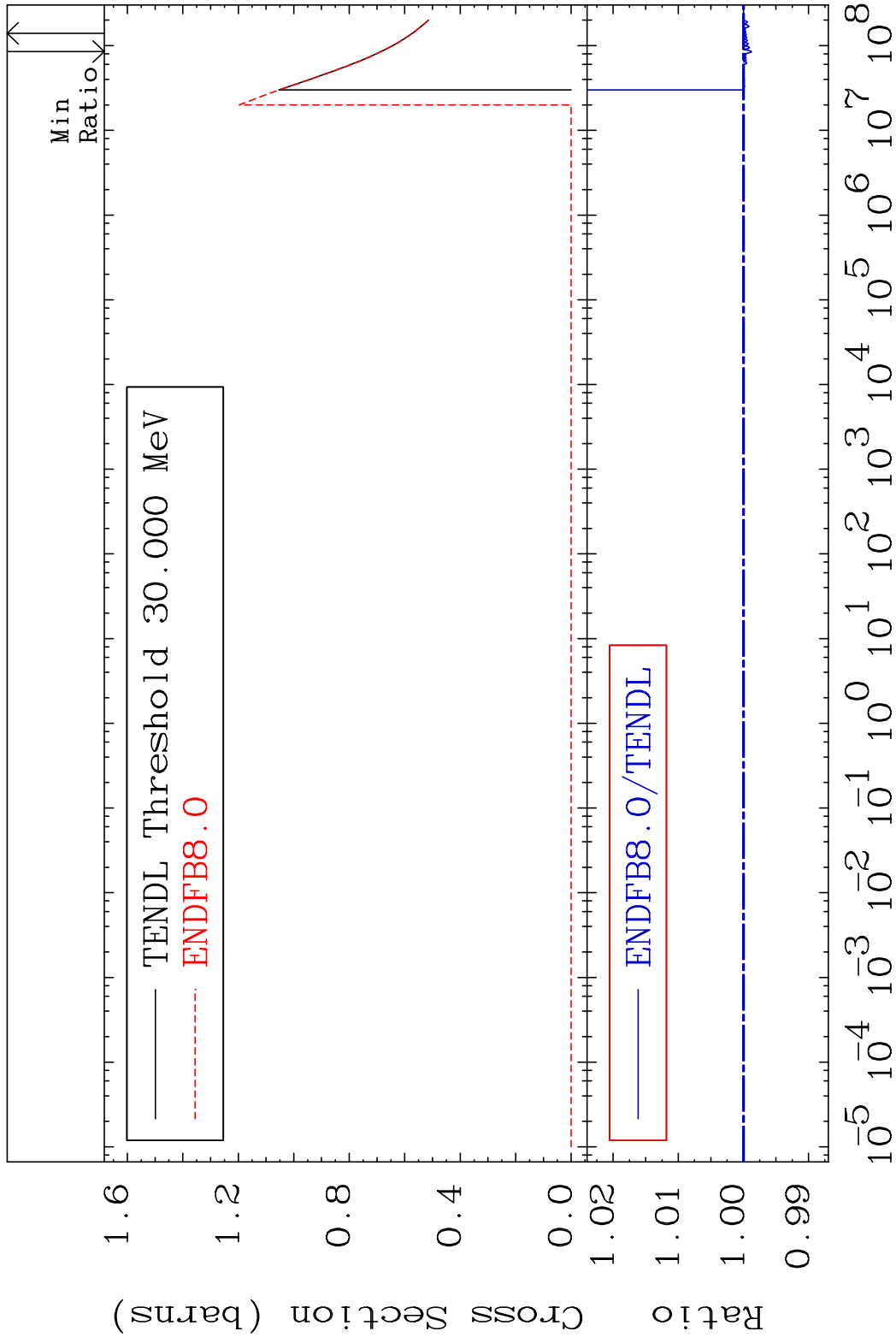
3 Incident Energy (eV) 20-Ca-46

MAT 2043

(n, remainder)

20-Ca-46

Cross Section -0.124 To 0.000 %



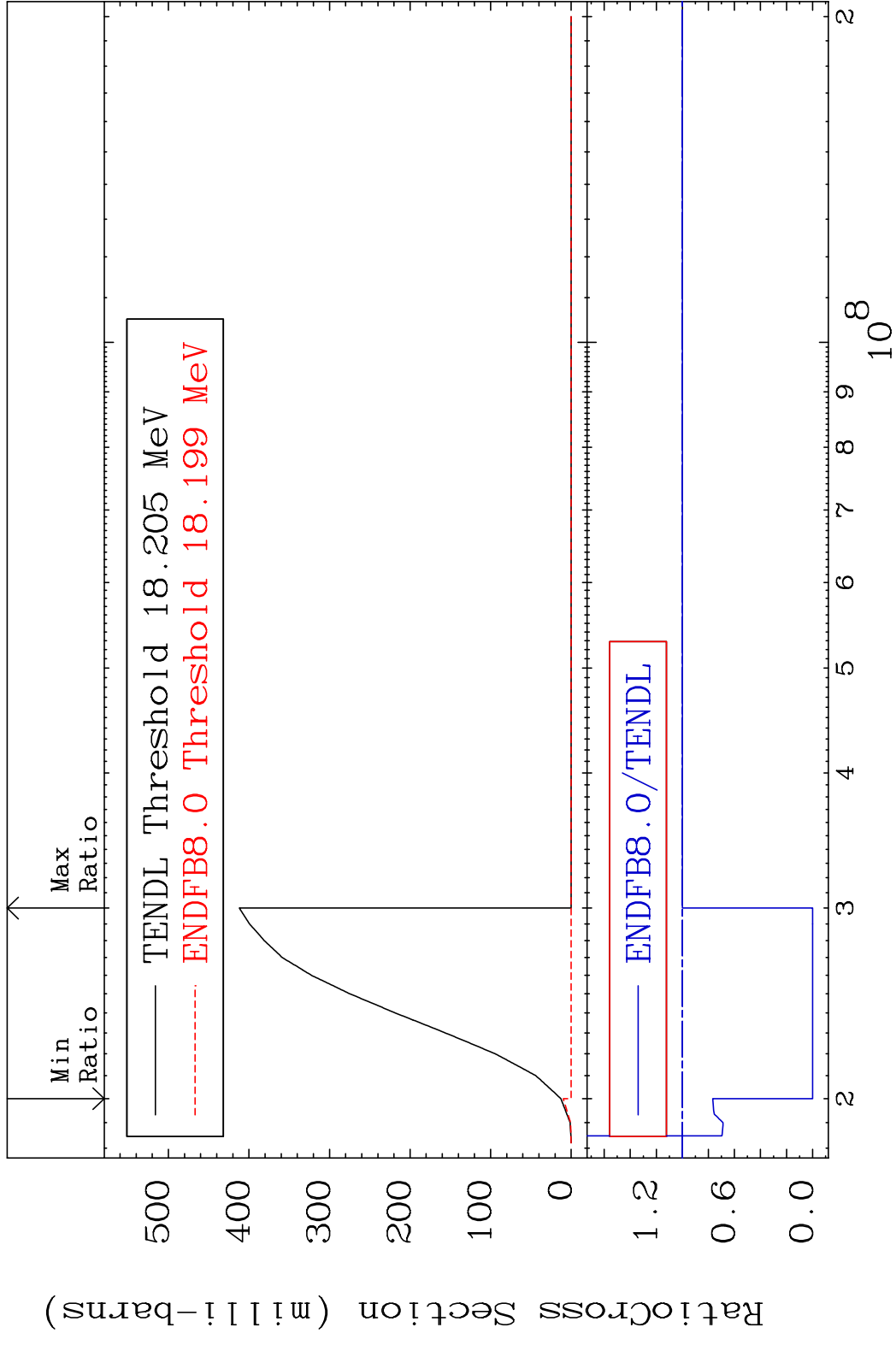
4

Incident Energy (eV)

20-Ca-46

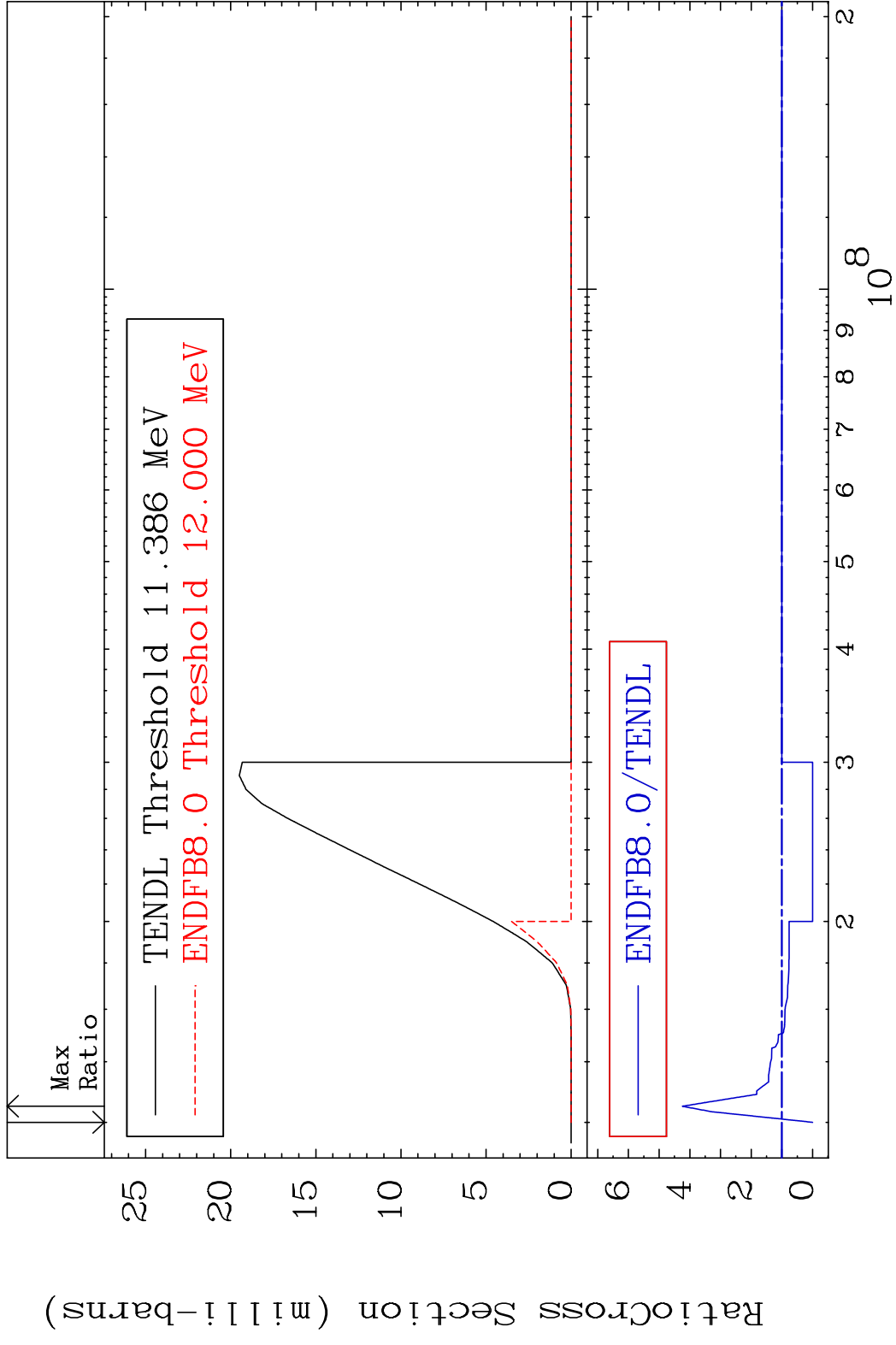


MAT 2043 (n,3n) 20-Ca-46  
 Cross Section -100.0 To 0.000 %

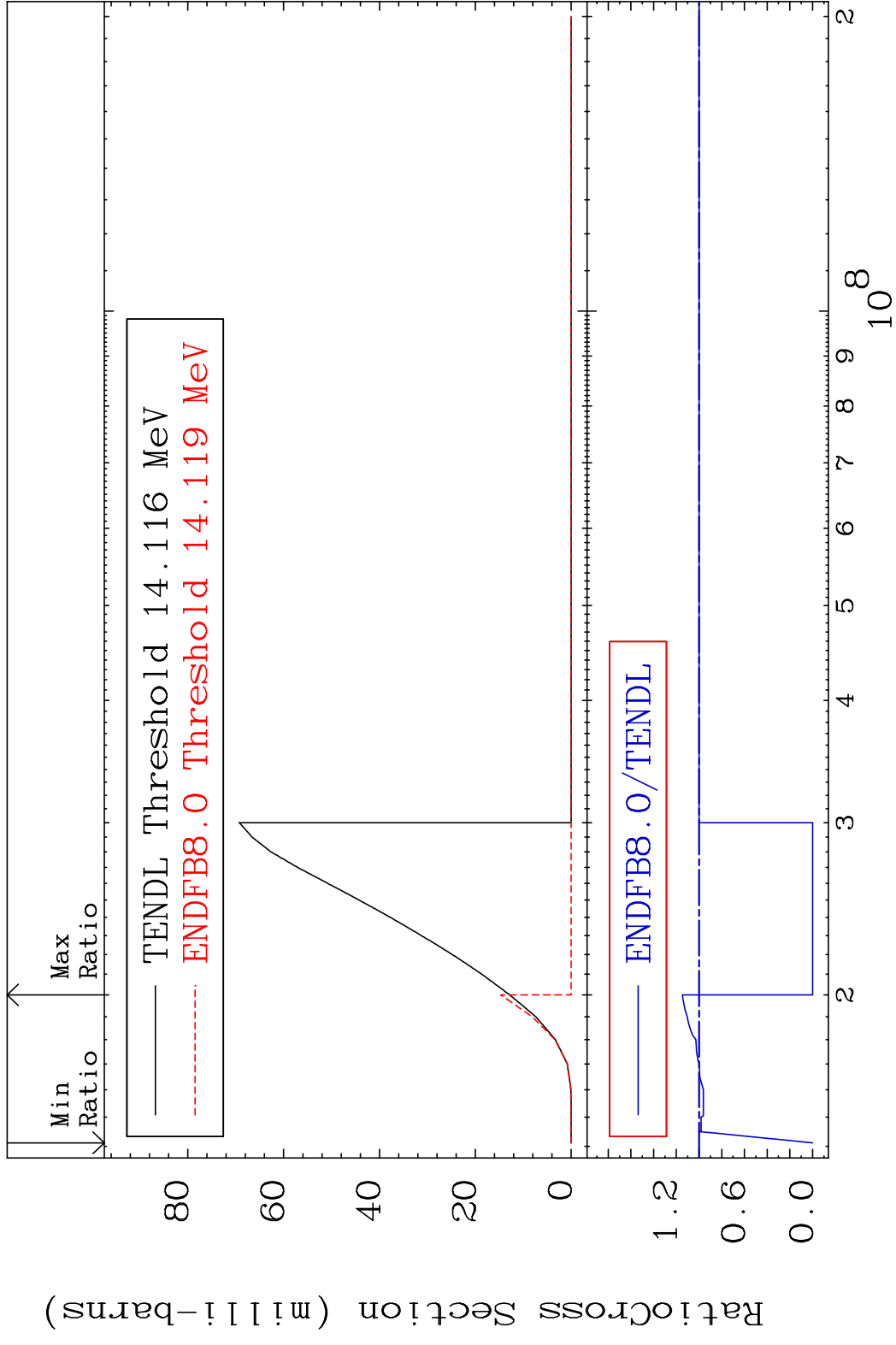


6 Incident Energy (eV) 20-Ca-46

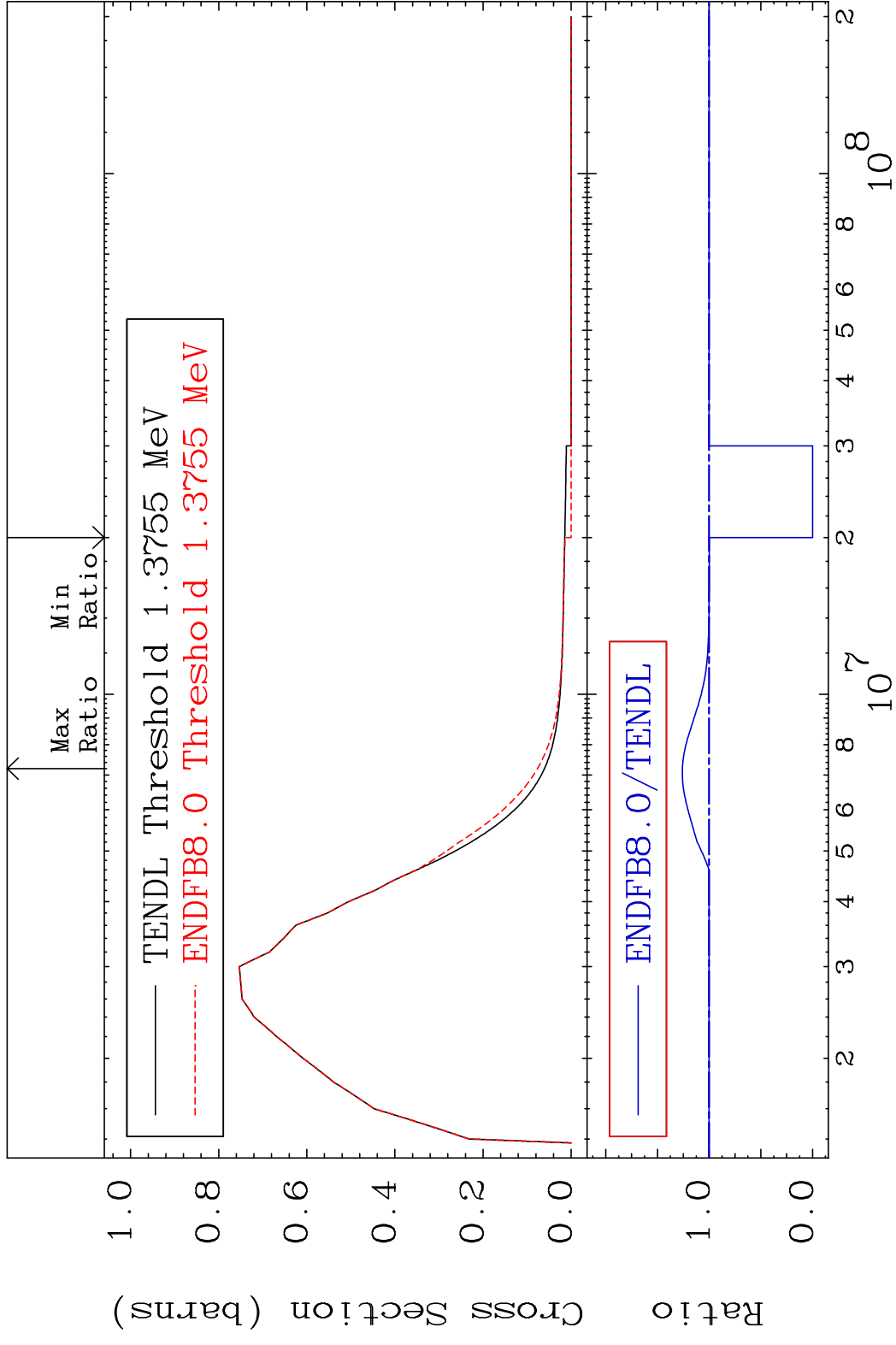
MAT 2043 (n, n')  $\alpha$  20-Ca-46  
 Cross Section -100.0 To 324.3 %



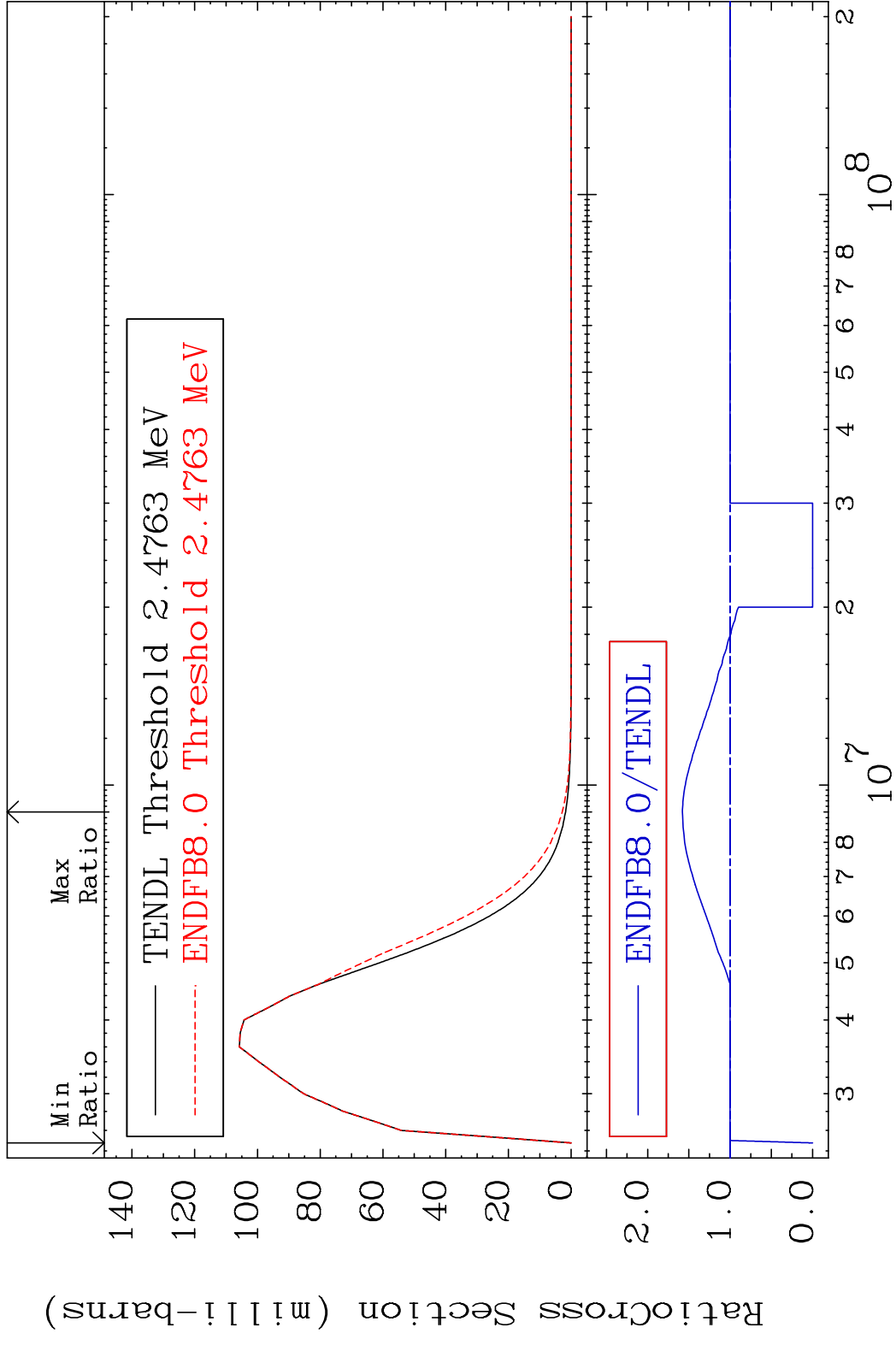
MAT 2043 (n, n') p 20-Ca-46  
 Cross Section -100.0 To 14.71 %



MAT 2043 MT= 51 (n, n') Level 20-Ca-46  
 Cross Section -100.0 To 25.93 %

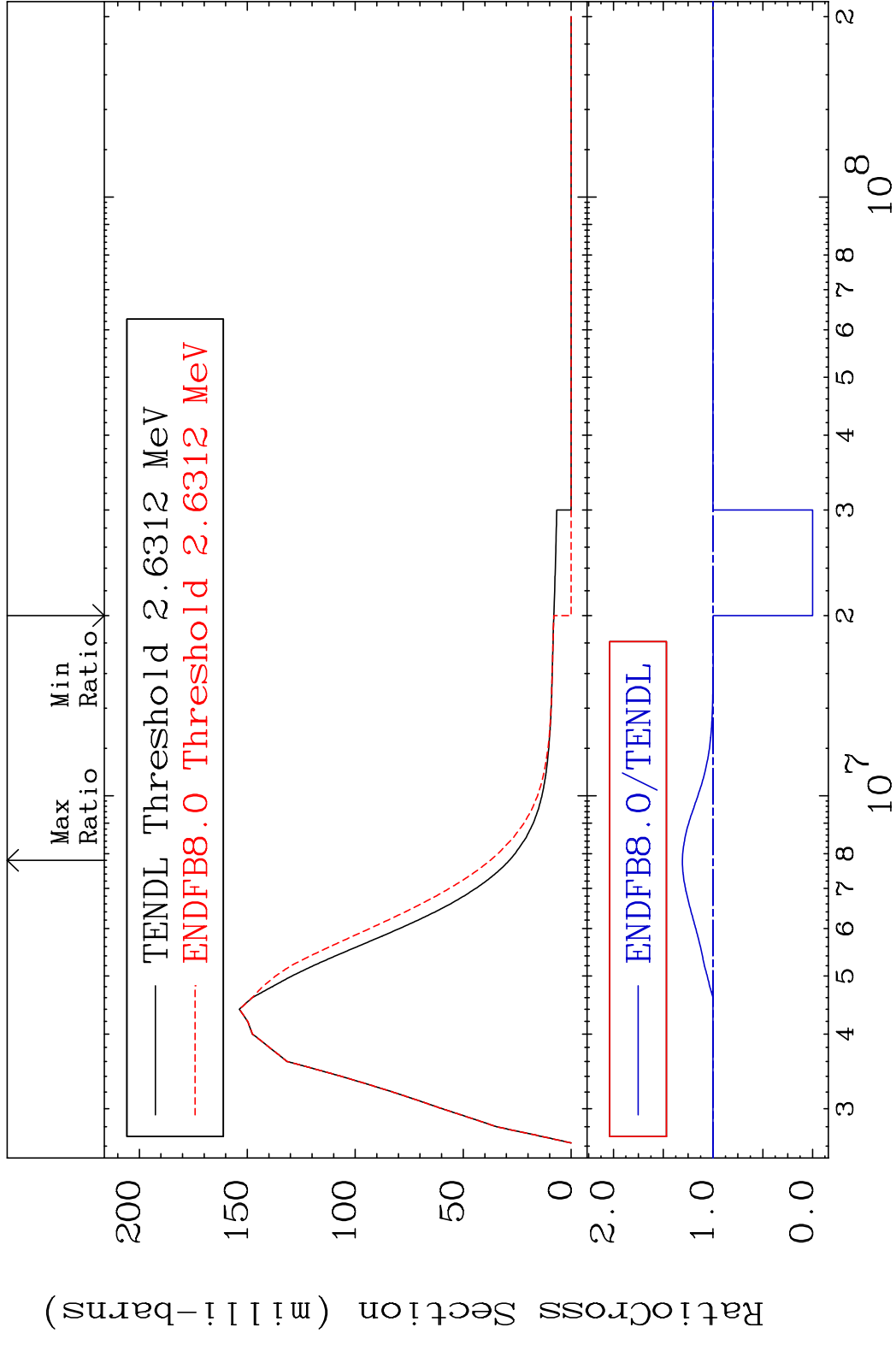


MAT 2043 MT= 52 (n, n') Level 20-Ca-46  
 Cross Section -100.0 To 57.89 %

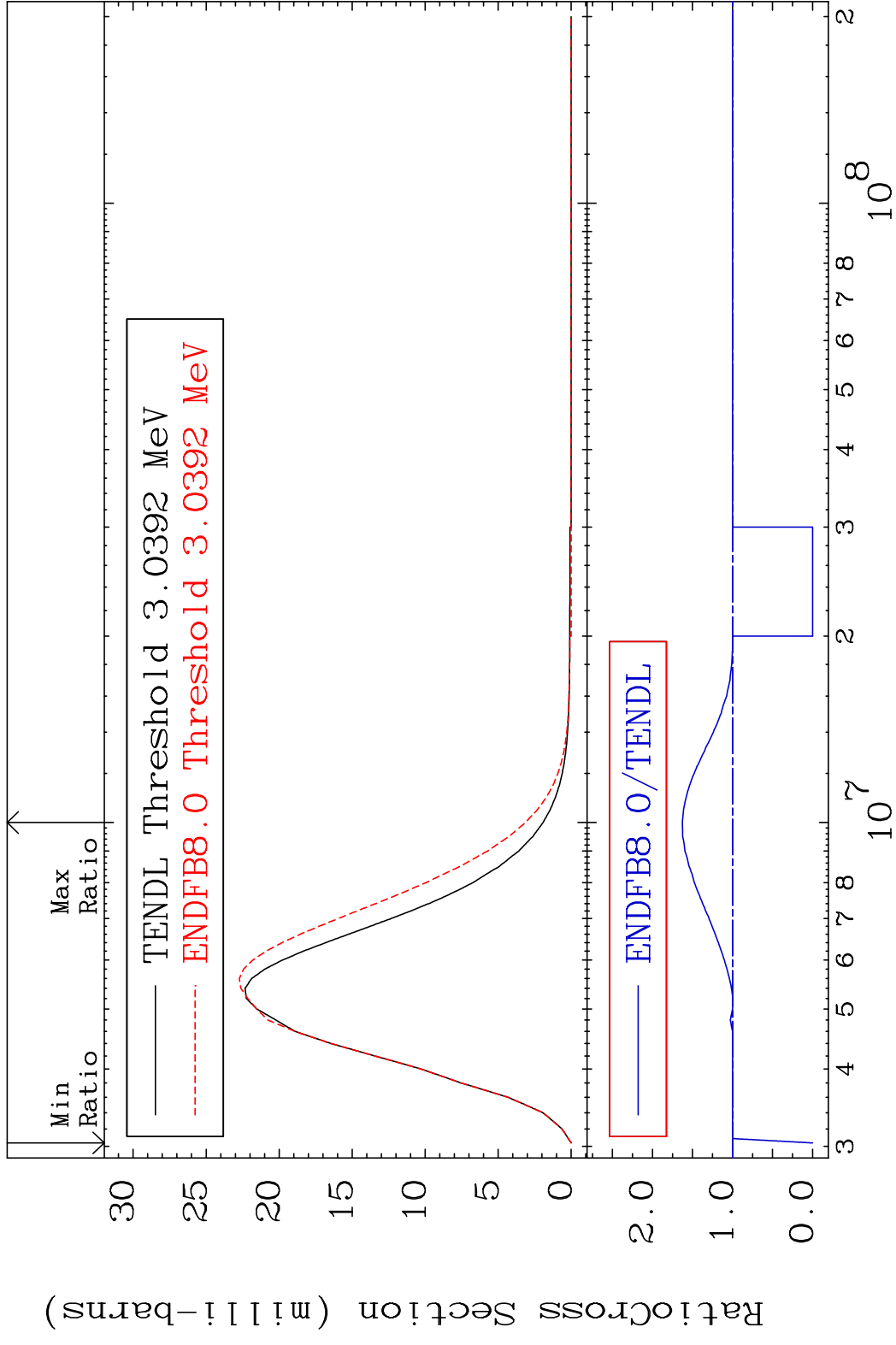


10 Incident Energy (eV) 20-Ca-46

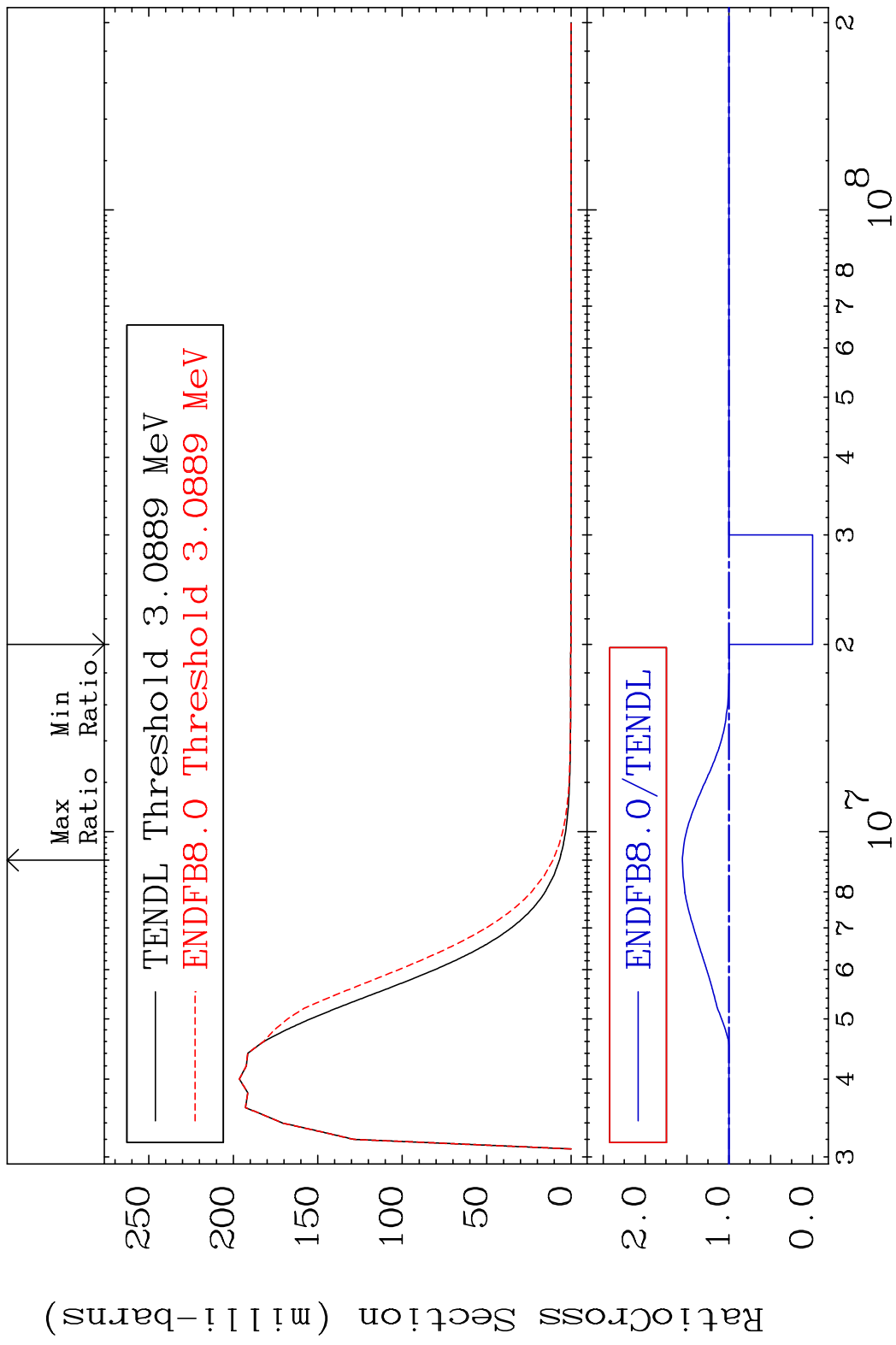
MAT 2043 MT= 53 (n, n') Level 20-Ca-46  
 Cross Section -100.0 To 30.81 %



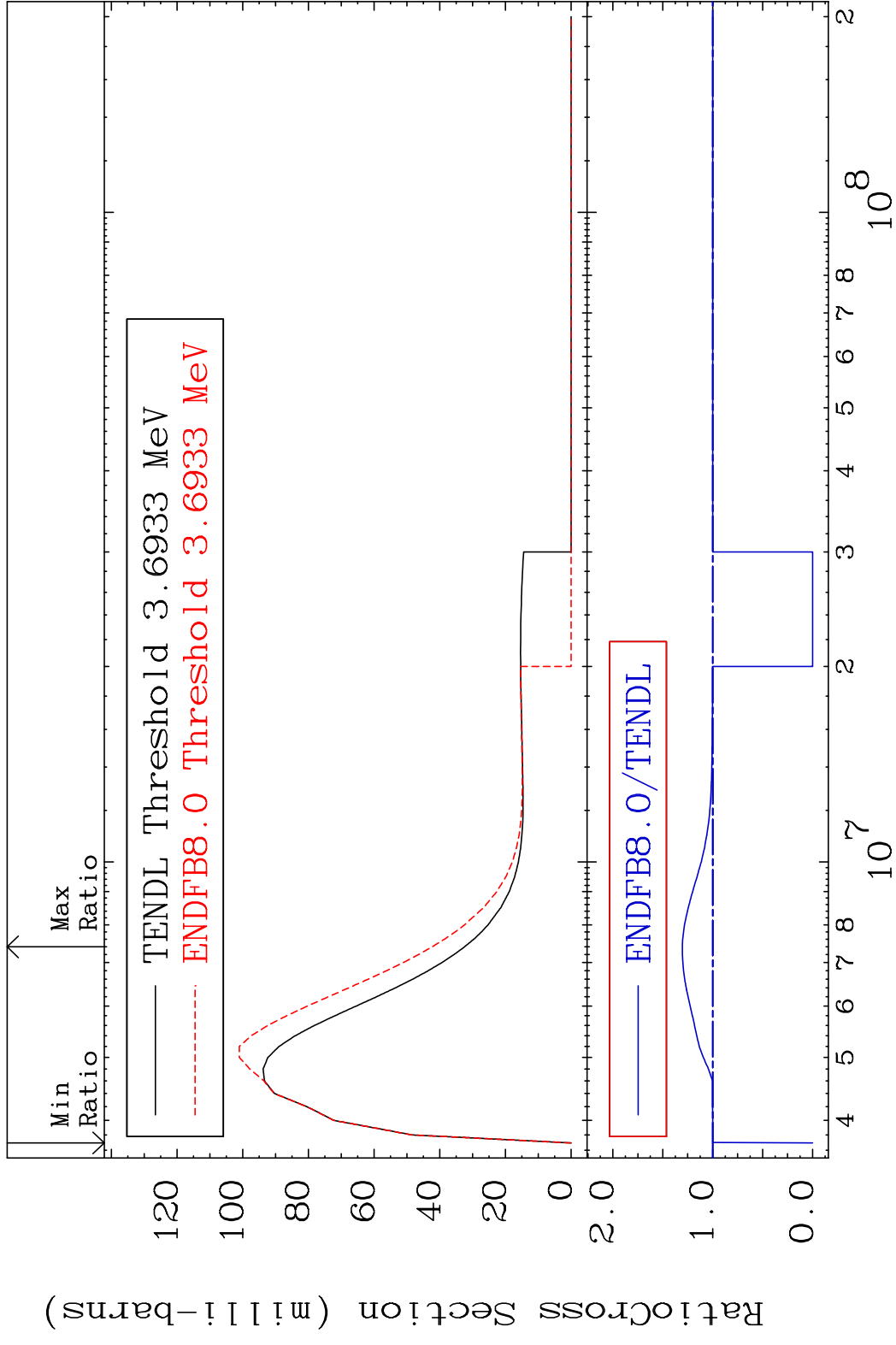
MAT 2043 MT= 54 (n,n') Level 20-Ca-46  
 Cross Section -100.0 To 62.69 %



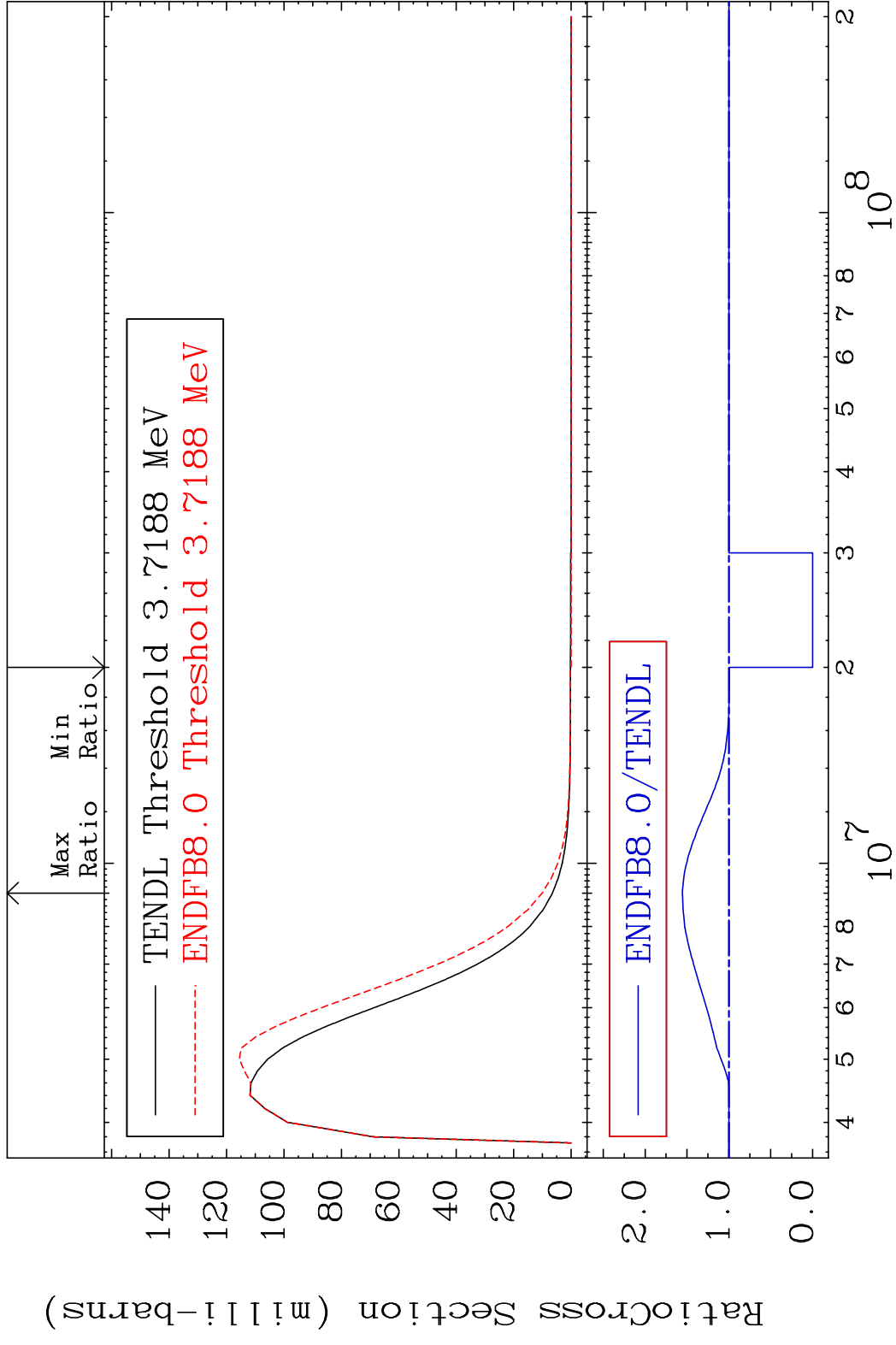
MAT 2043 MT= 55 (n,n') Level 20-Ca-46  
 Cross Section -100.0 To 55.56 %



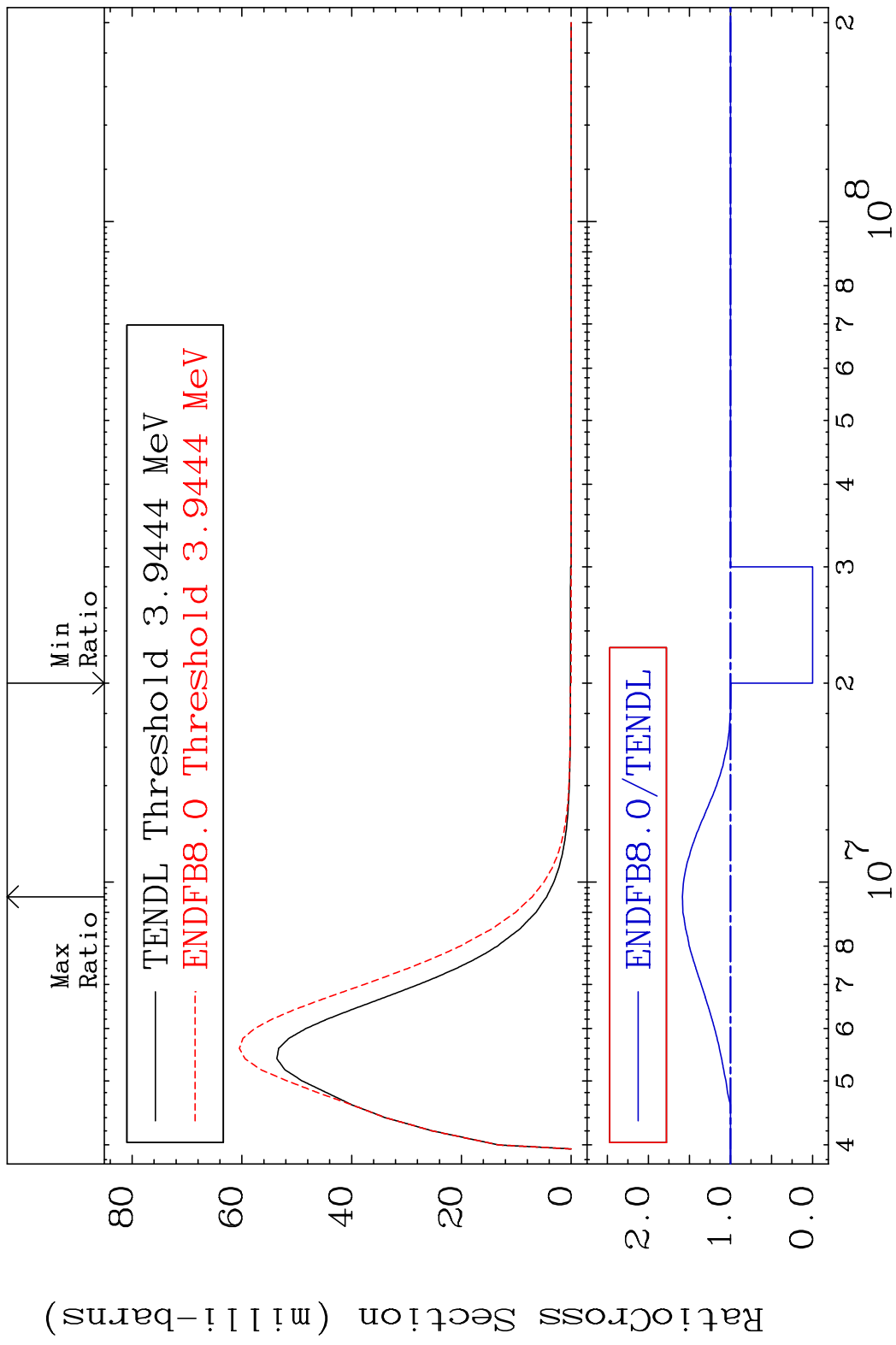
MAT 2043 MT= 56 (n,n') Level 20-Ca-46  
 Cross Section -100.0 To 30.40 %



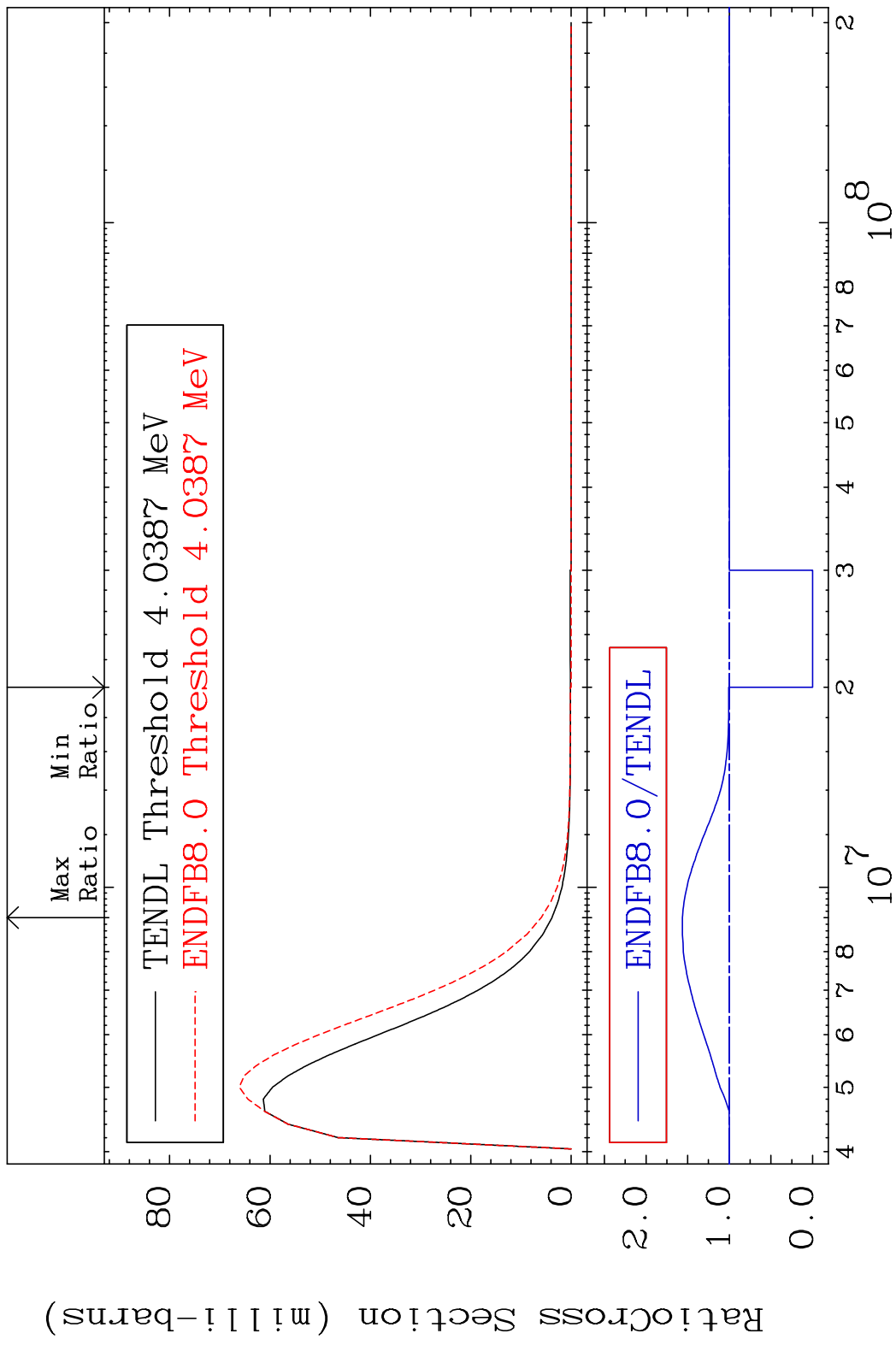
MAT 2043 MT= 57 (n, n') Level 20-Ca-46  
 Cross Section -100.0 To 55.56 %



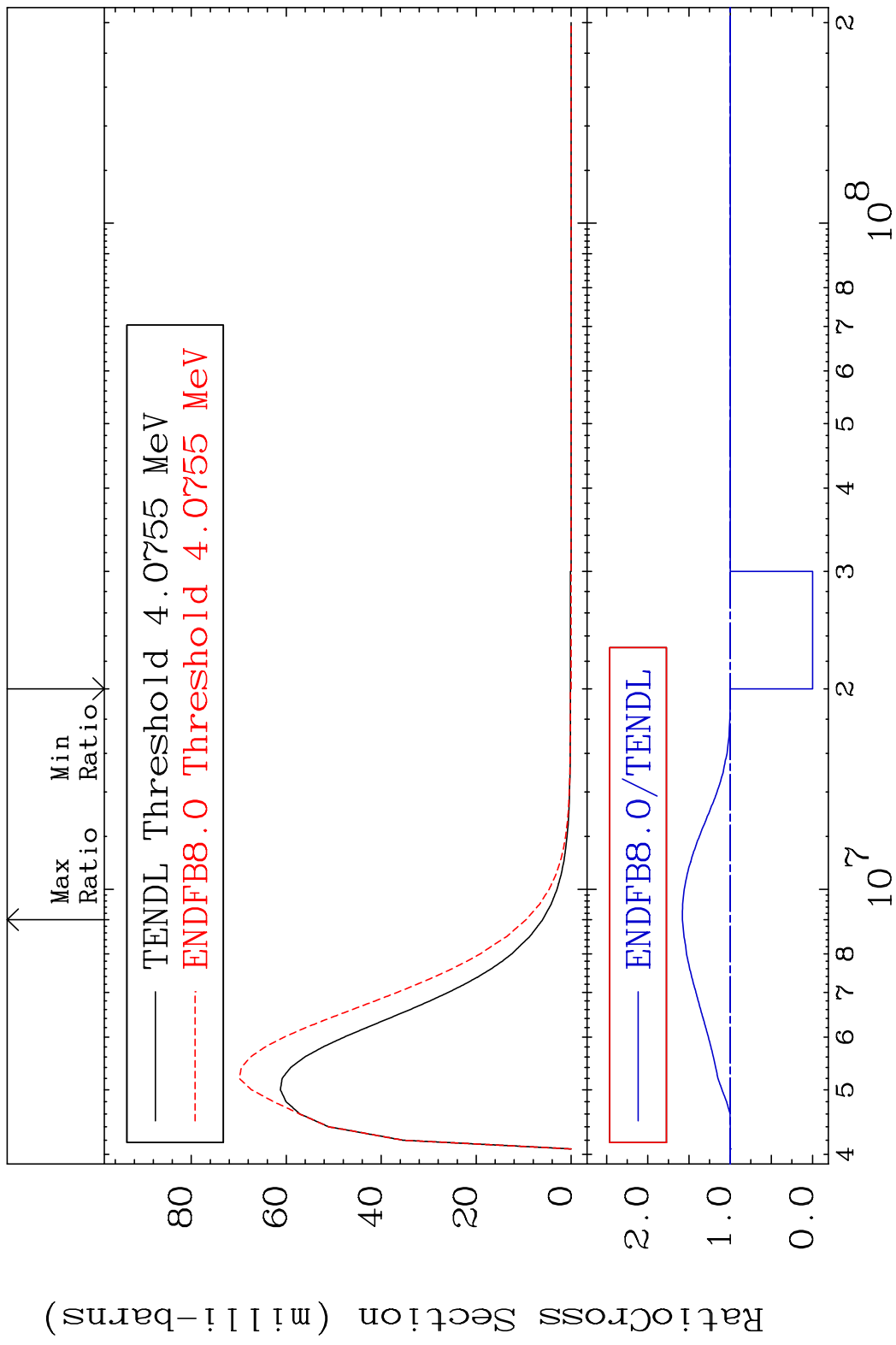
MAT 2043 MT= 58 (n, n') Level 20-Ca-46  
 Cross Section -100.0 To 58.64 %



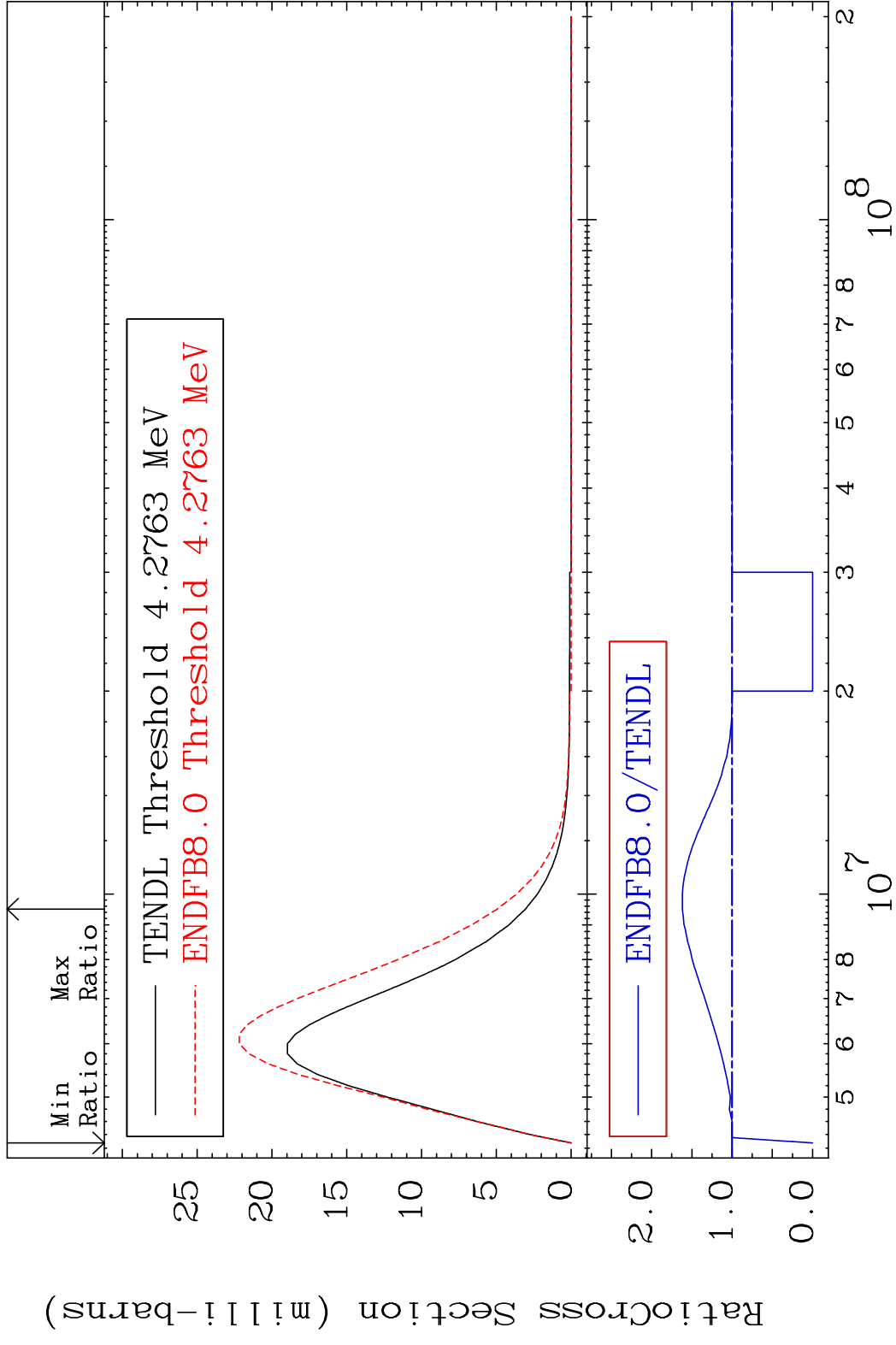
MAT 2043 MT= 59 (n,n') Level 20-Ca-46  
 Cross Section -100.0 To 56.39 %



MAT 2043 MT= 60 (n, n') Level 20-Ca-46  
 Cross Section -100.0 To 58.06 %

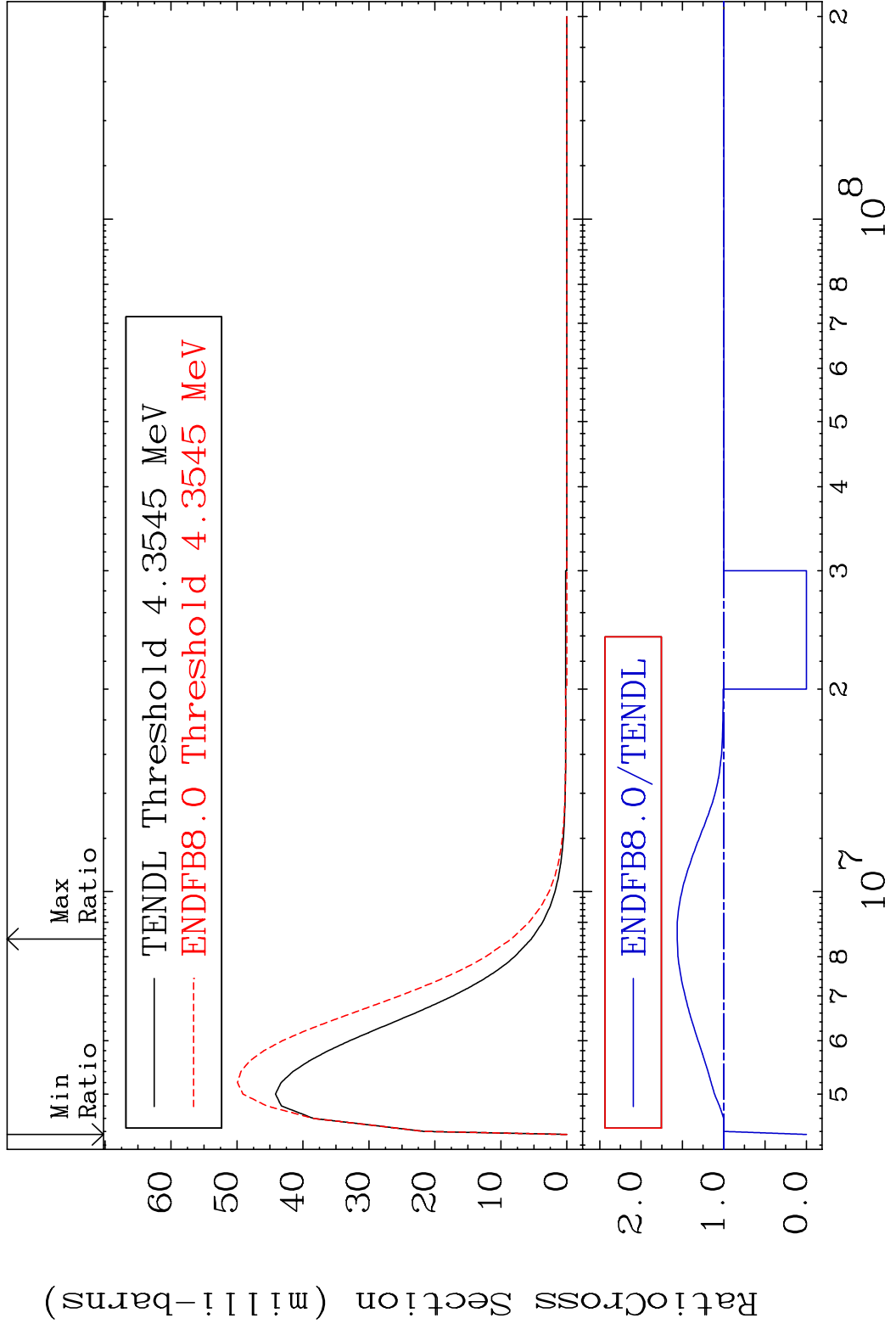


MAT 2043 MT= 61 (n, n') Level 20-Ca-46  
 Cross Section -100.0 To 61.84 %



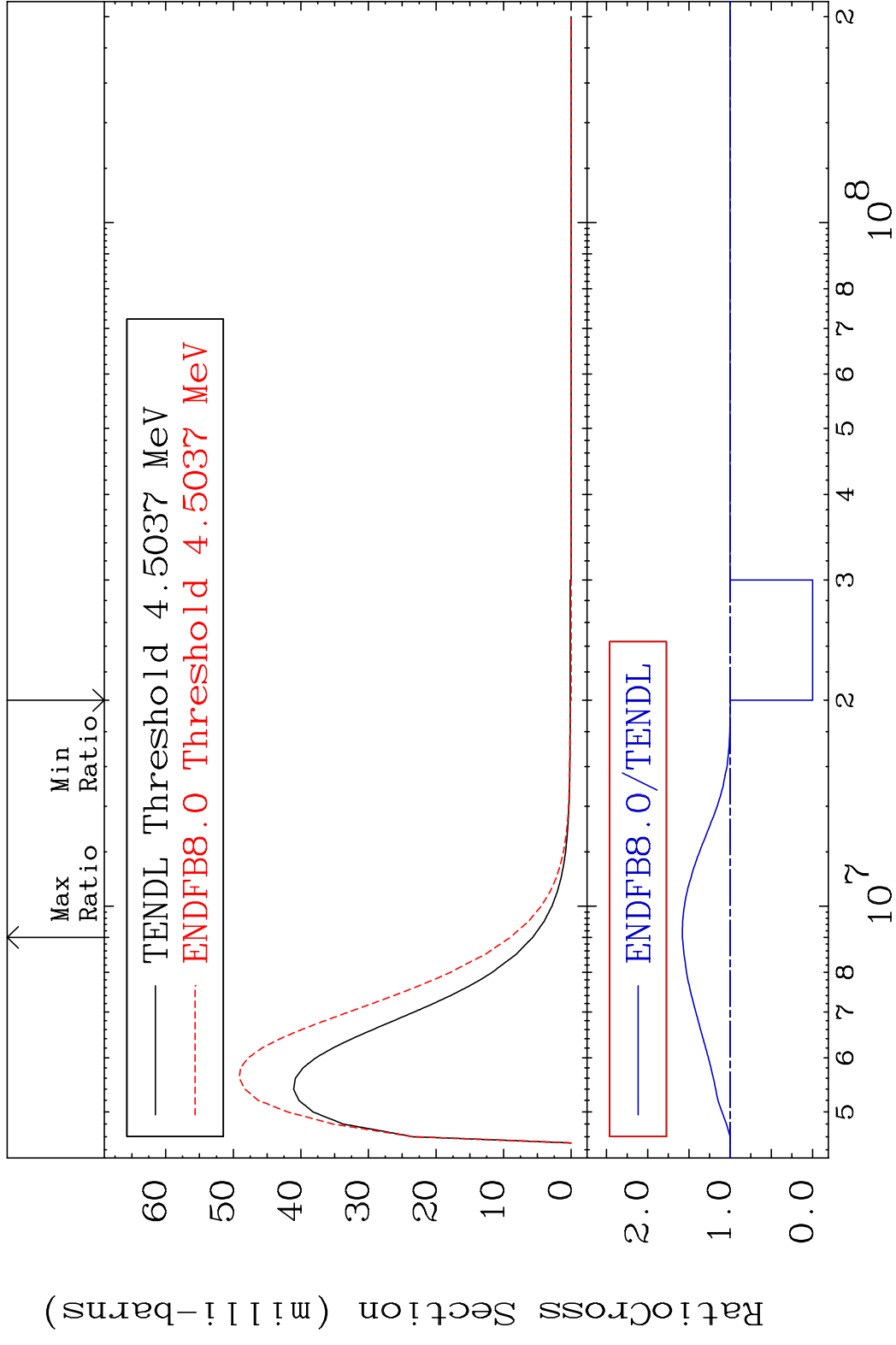
19 Incident Energy (eV) 20-Ca-46

MAT 2043 MT= 62 (n, n') Level 20-Ca-46  
 Cross Section -100.0 To 56.30 %

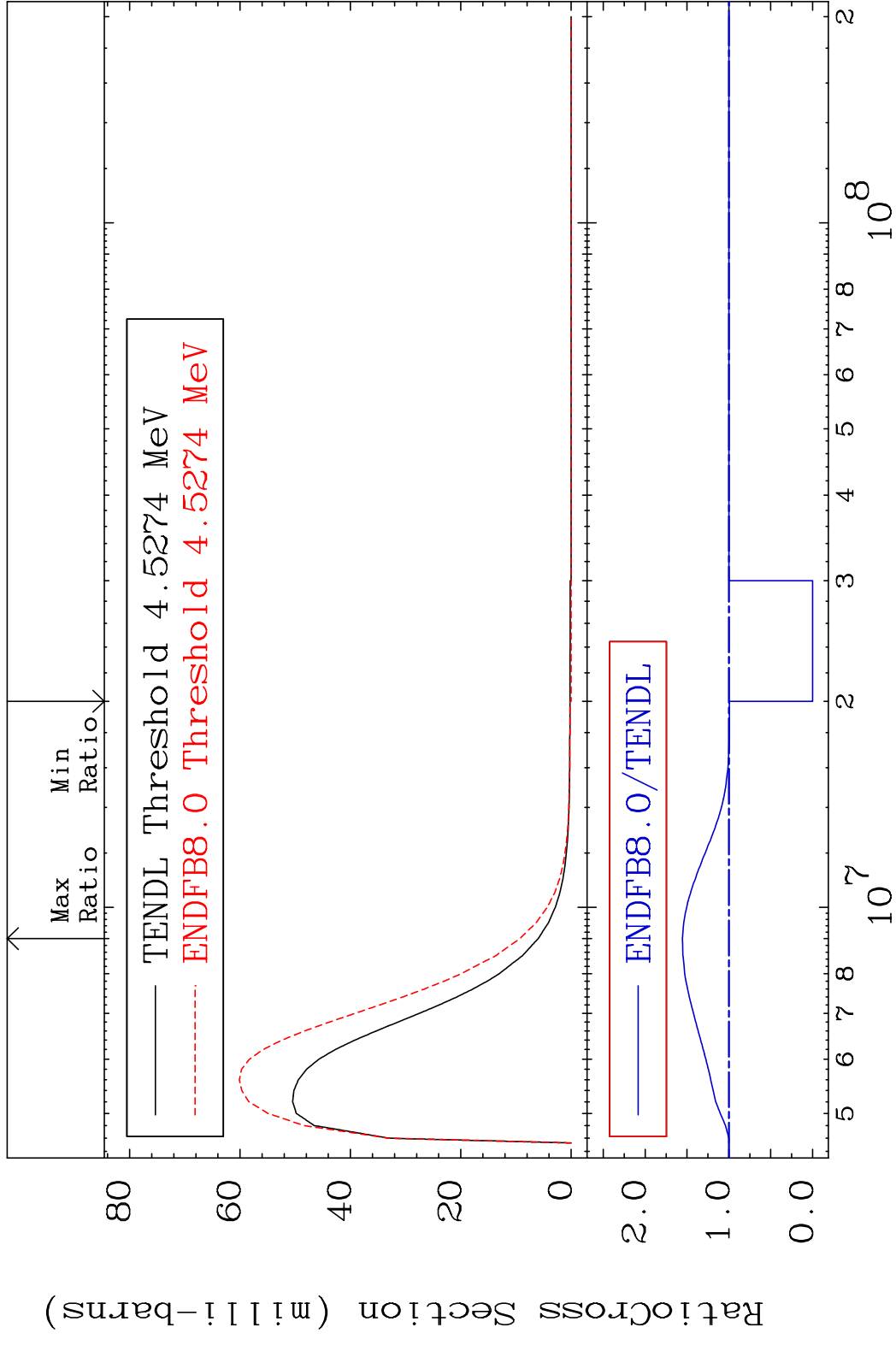


20 Incident Energy (eV) 20-Ca-46

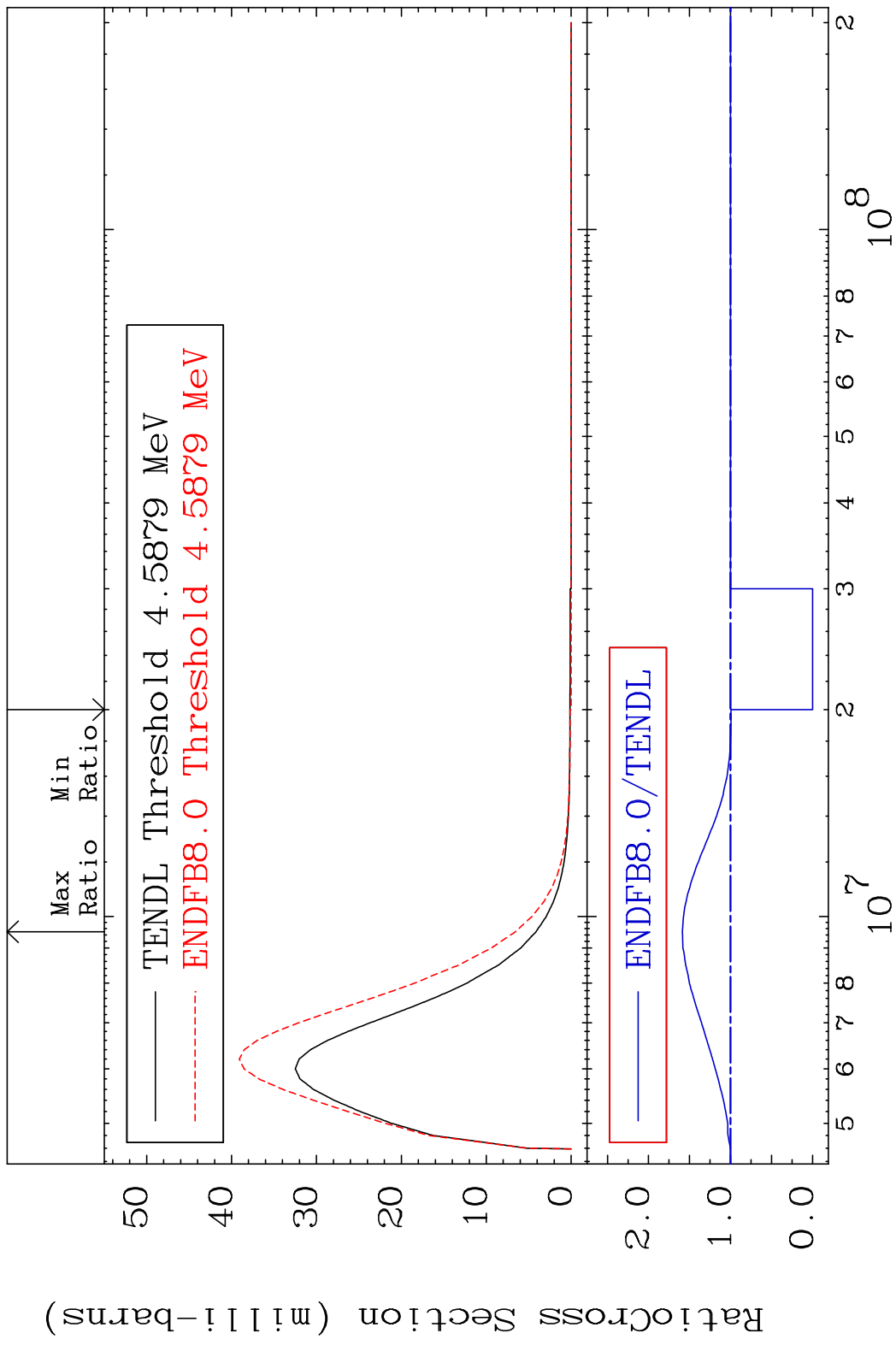
MAT 2043 MT= 63 (n,n') Level 20-Ca-46  
 Cross Section -100.0 To 58.00 %



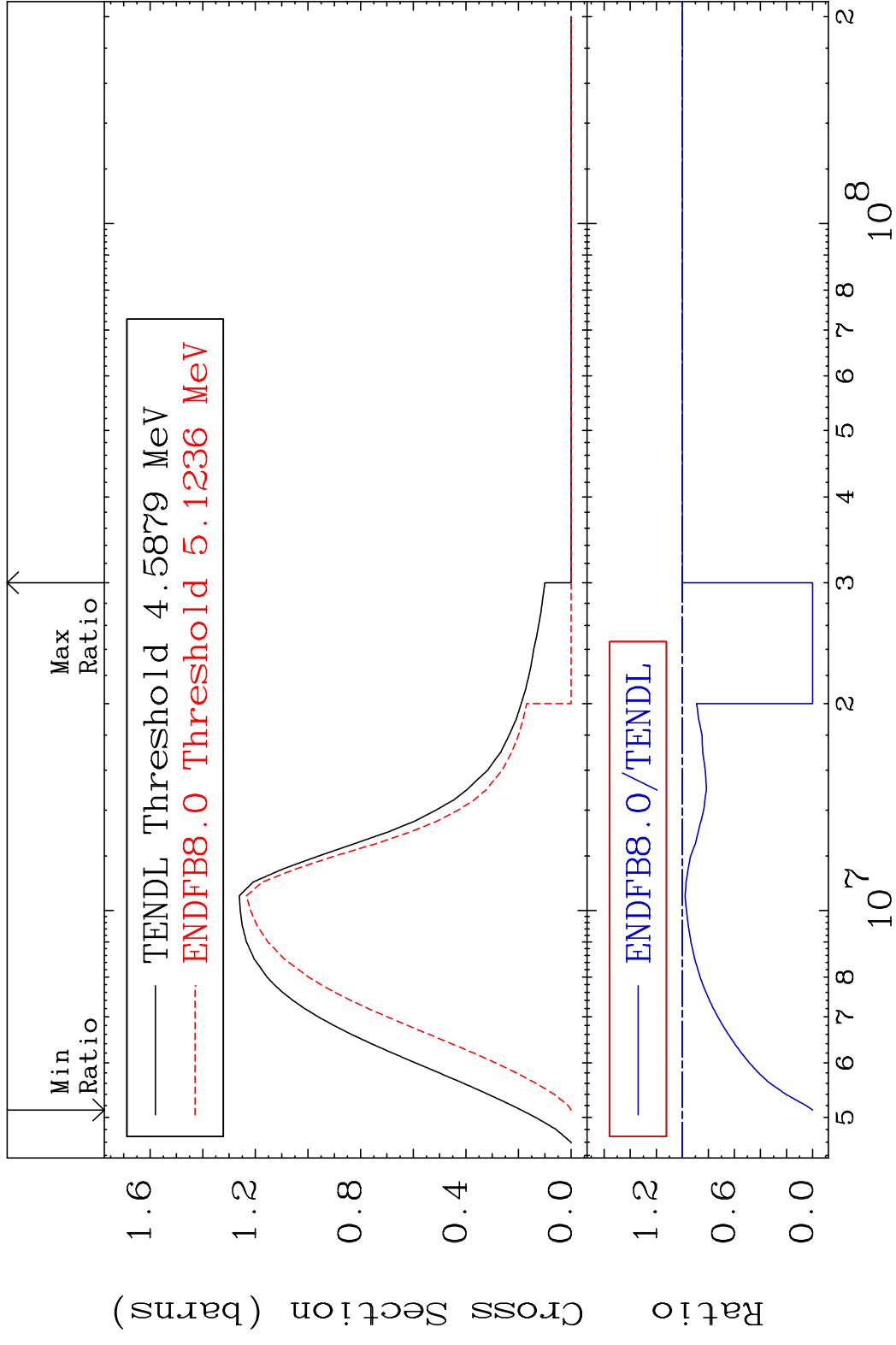
MAT 2043 MT= 64 (n, n') Level 20-Ca-46  
 Cross Section -100.0 To 55.59 %



MAT 2043 MT= 65 (n,n') Level 20-Ca-46  
 Cross Section -100.0 To 58.74 %



MAT 2043 (n, n') Continuum 20-Ca-46  
 Cross Section -100.0 To 0.000 %

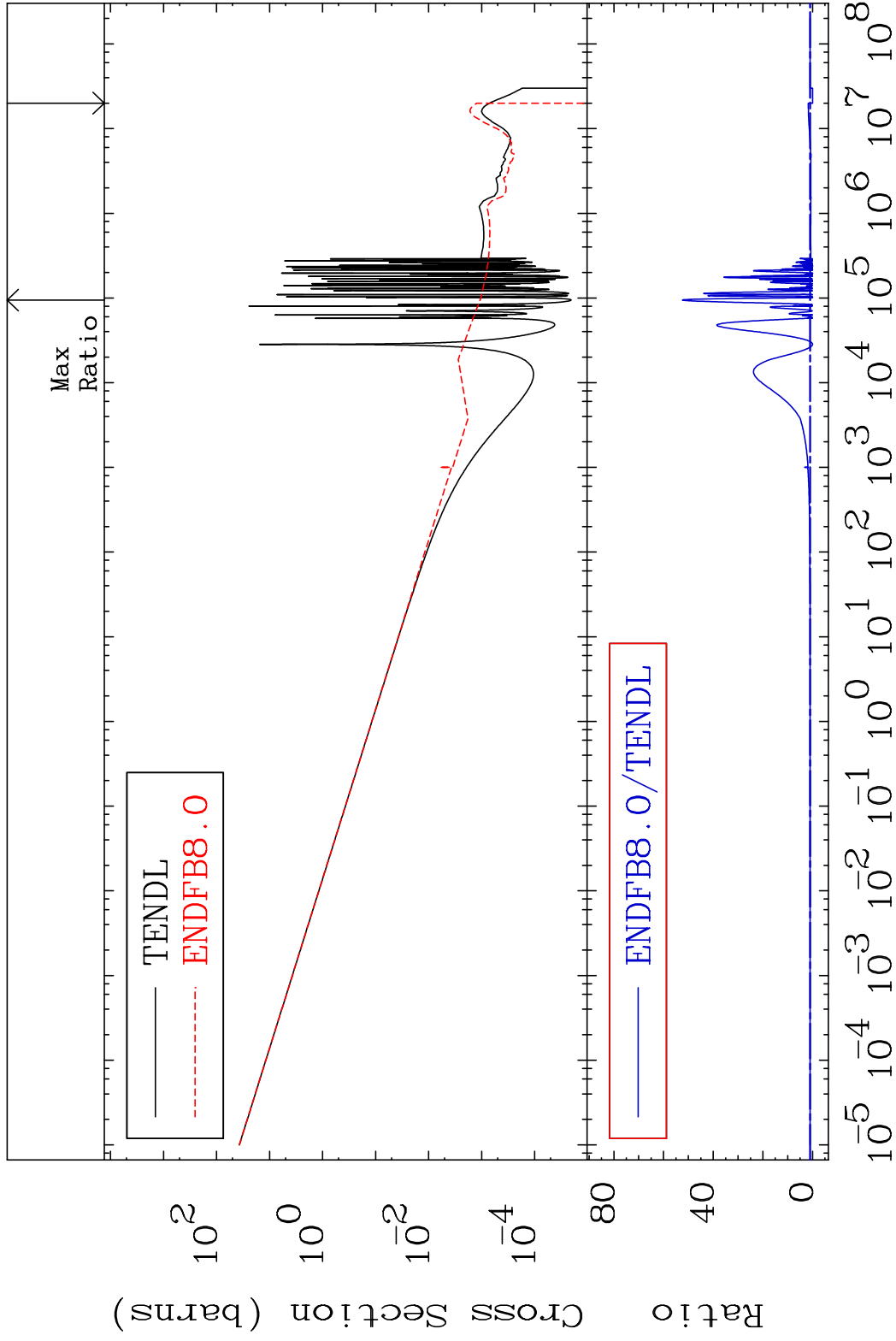


MAT 2043

(n,  $\gamma$ )

20-Ca-46

Cross Section -100.0 To 5143. %

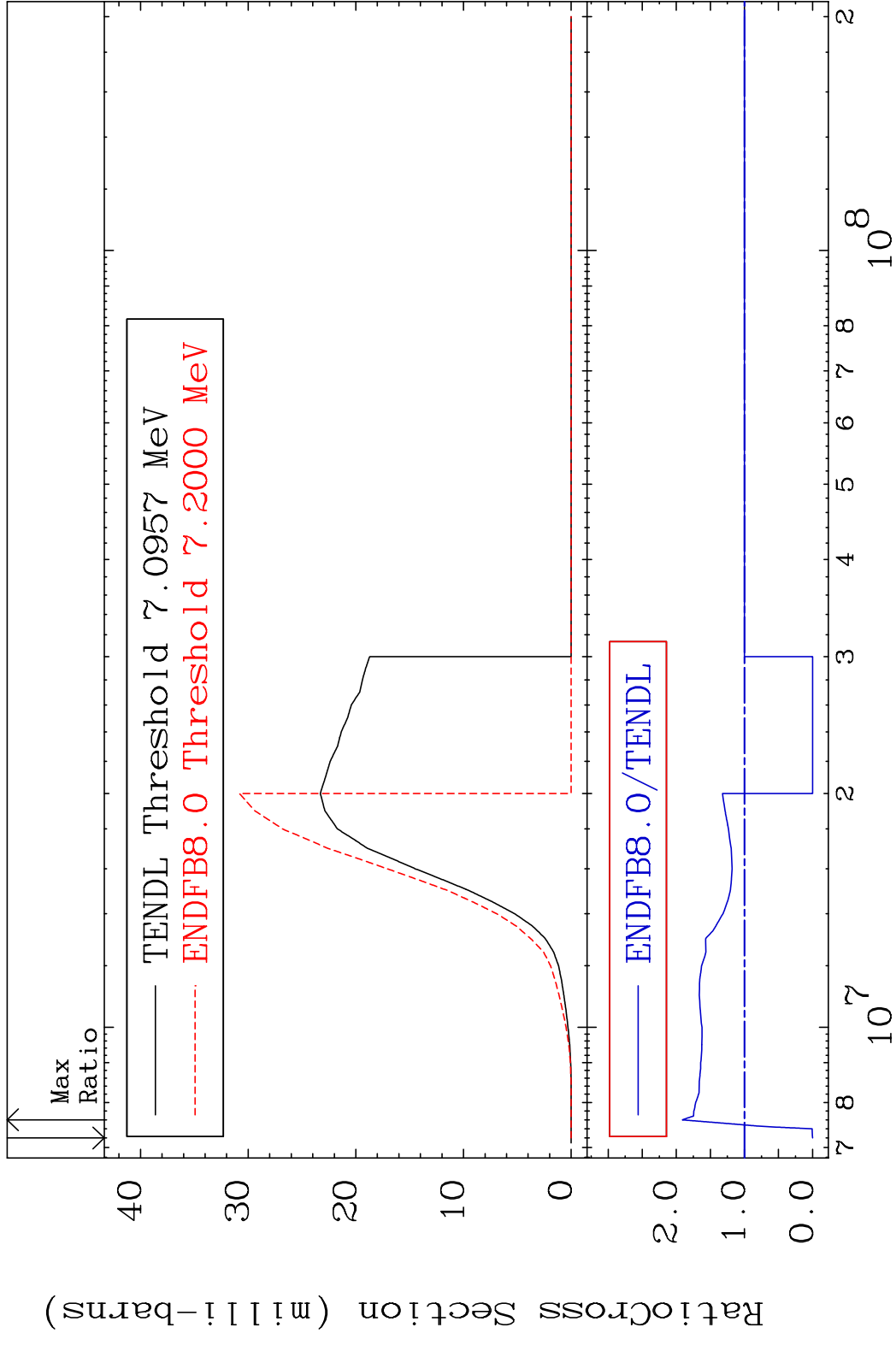


25

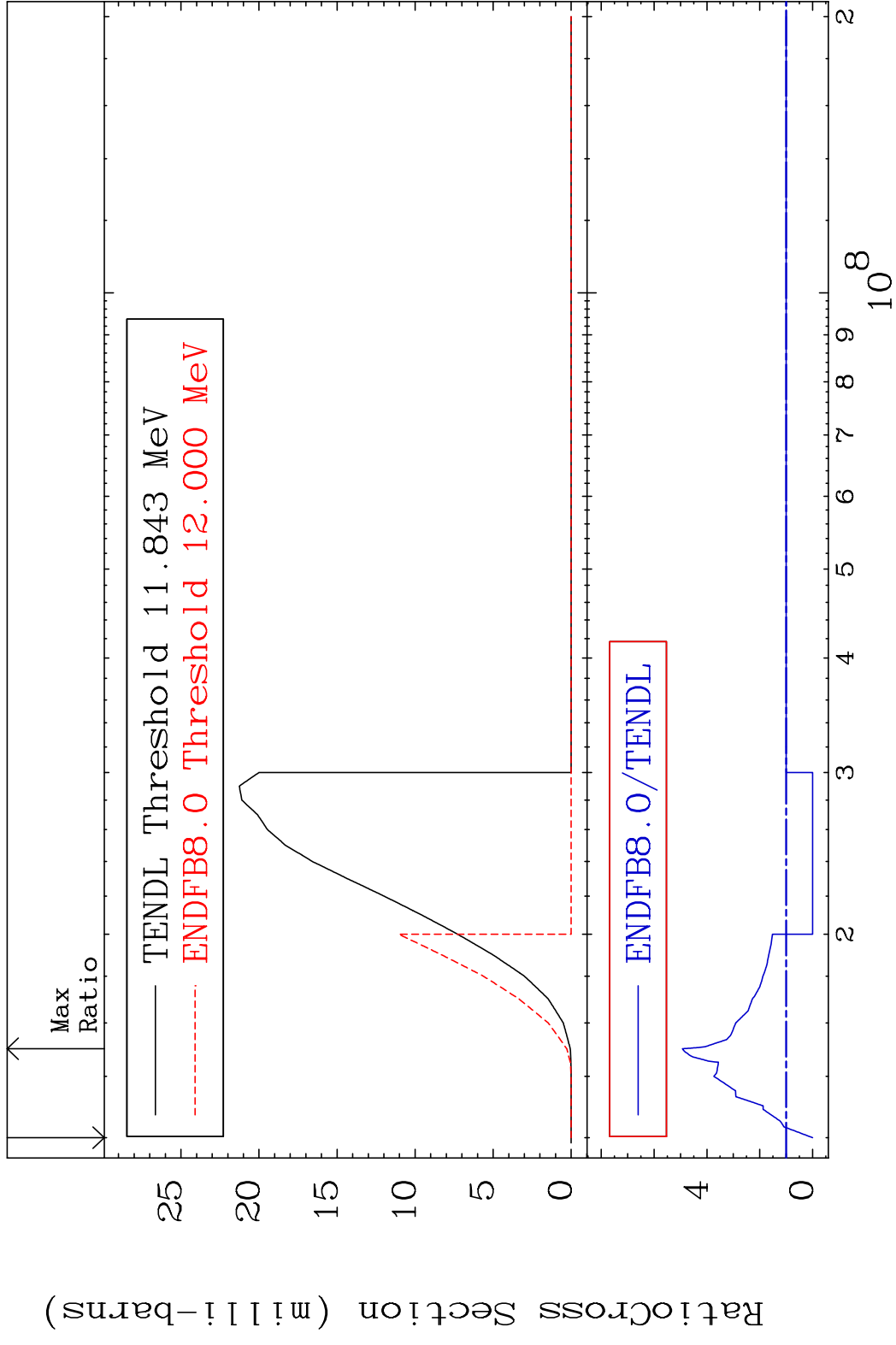
Incident Energy (eV)

20-Ca-46

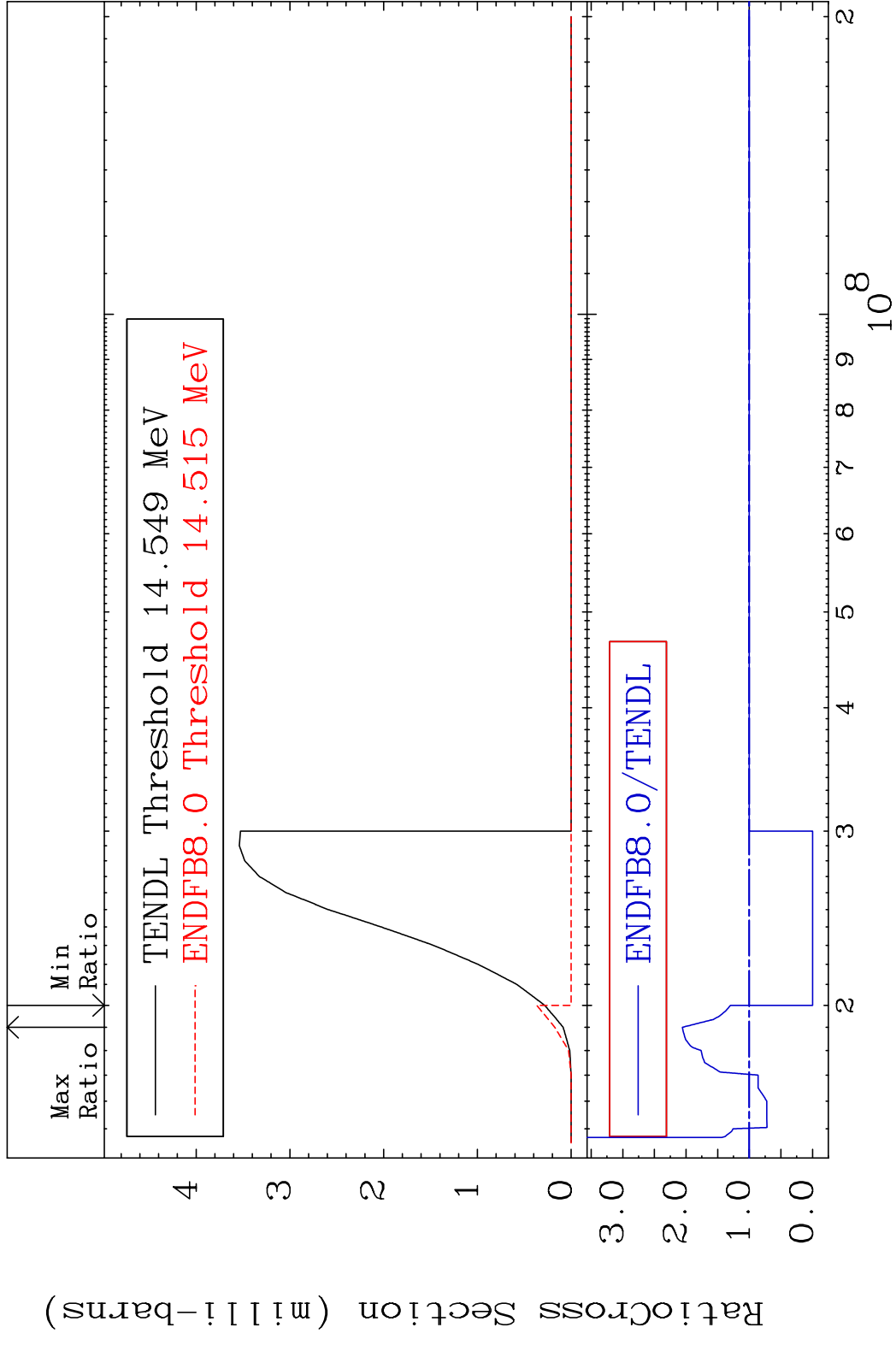
MAT 2043 (n,p) 20-Ca-46  
 Cross Section -100.0 To 91.13 %



MAT 2043 (n,d) 20-Ca-46  
 Cross Section -100.0 To 393.0 %

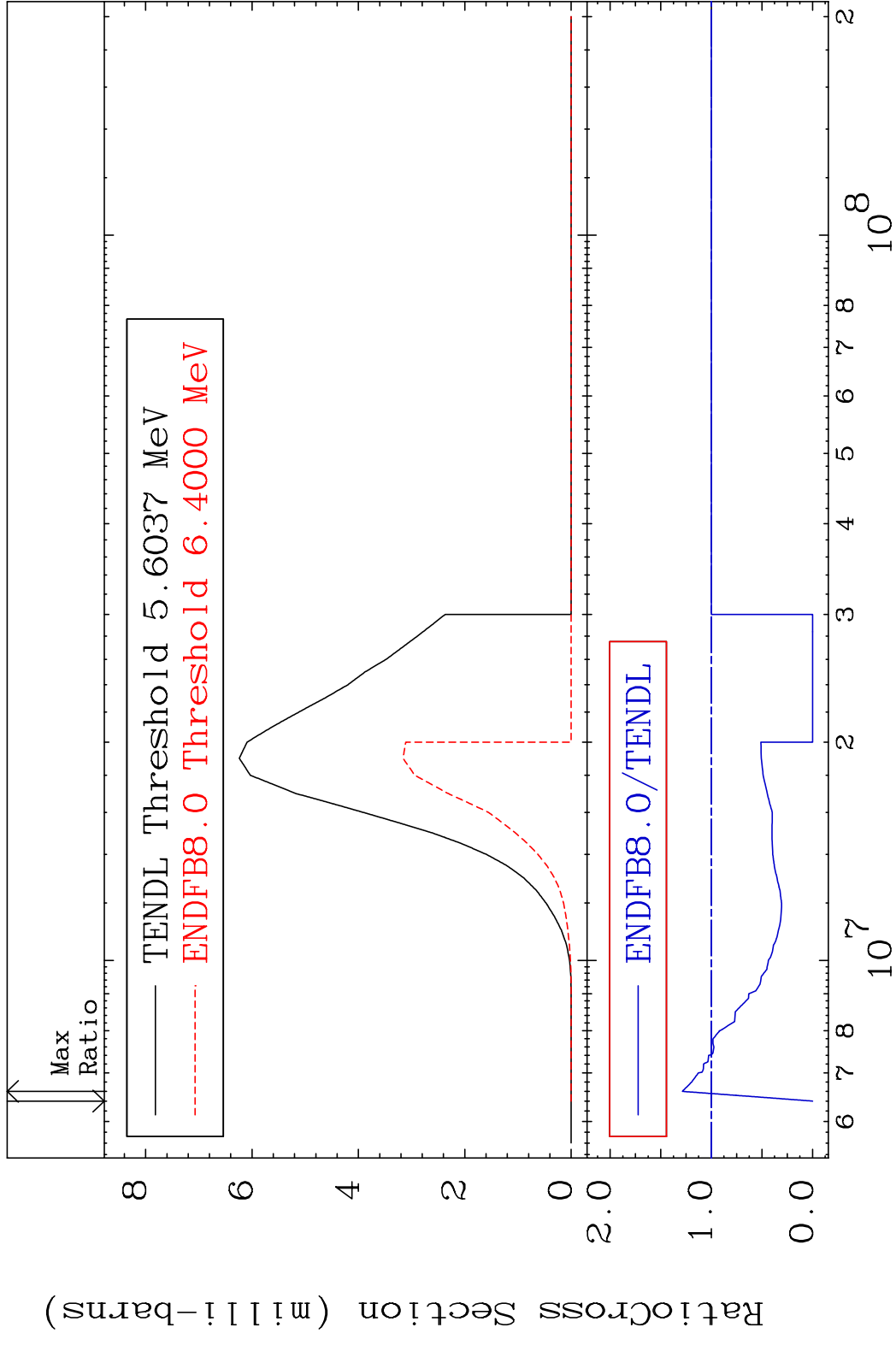


MAT 2043 (n, t) 20-Ca-46  
 Cross Section -100.0 To 105.9 %

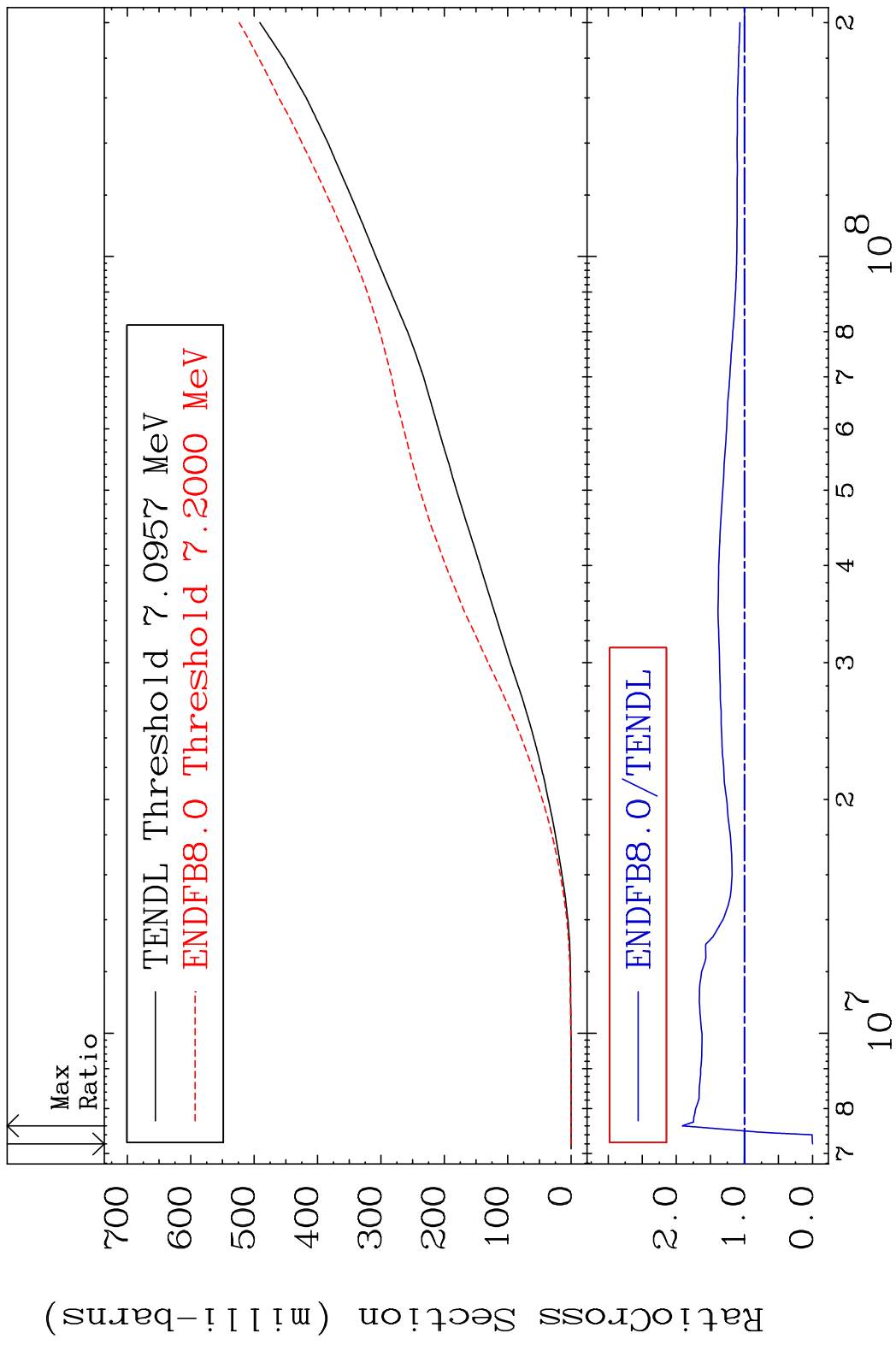


28 Incident Energy (eV) 20-Ca-46

MAT 2043 (n,  $\alpha$ ) 20-Ca-46  
 Cross Section -100.0 To 28.64 %

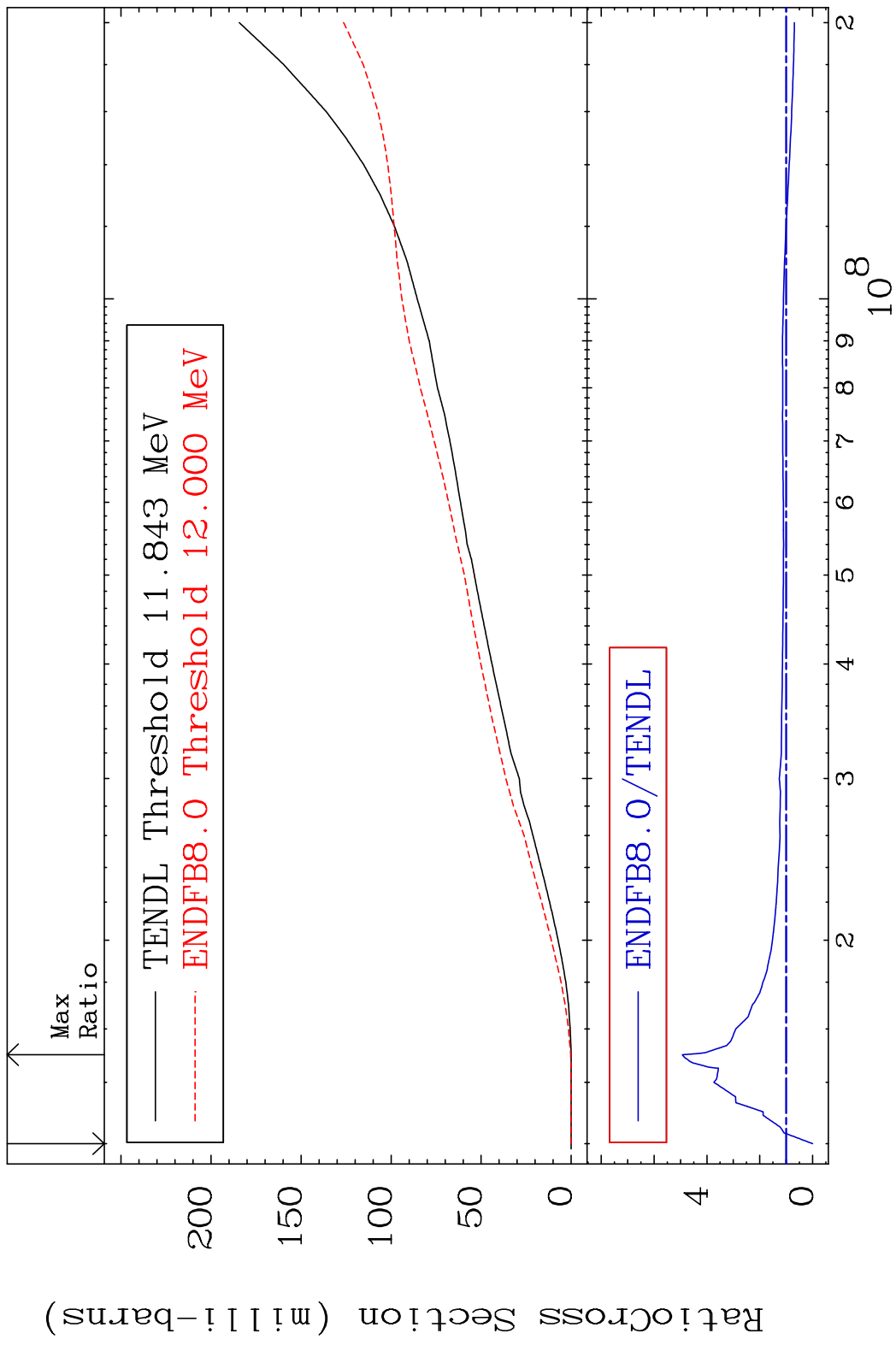


MAT 2043 Hydrogen Production 20-Ca-46  
Cross Section -100.0 To 91.13 %

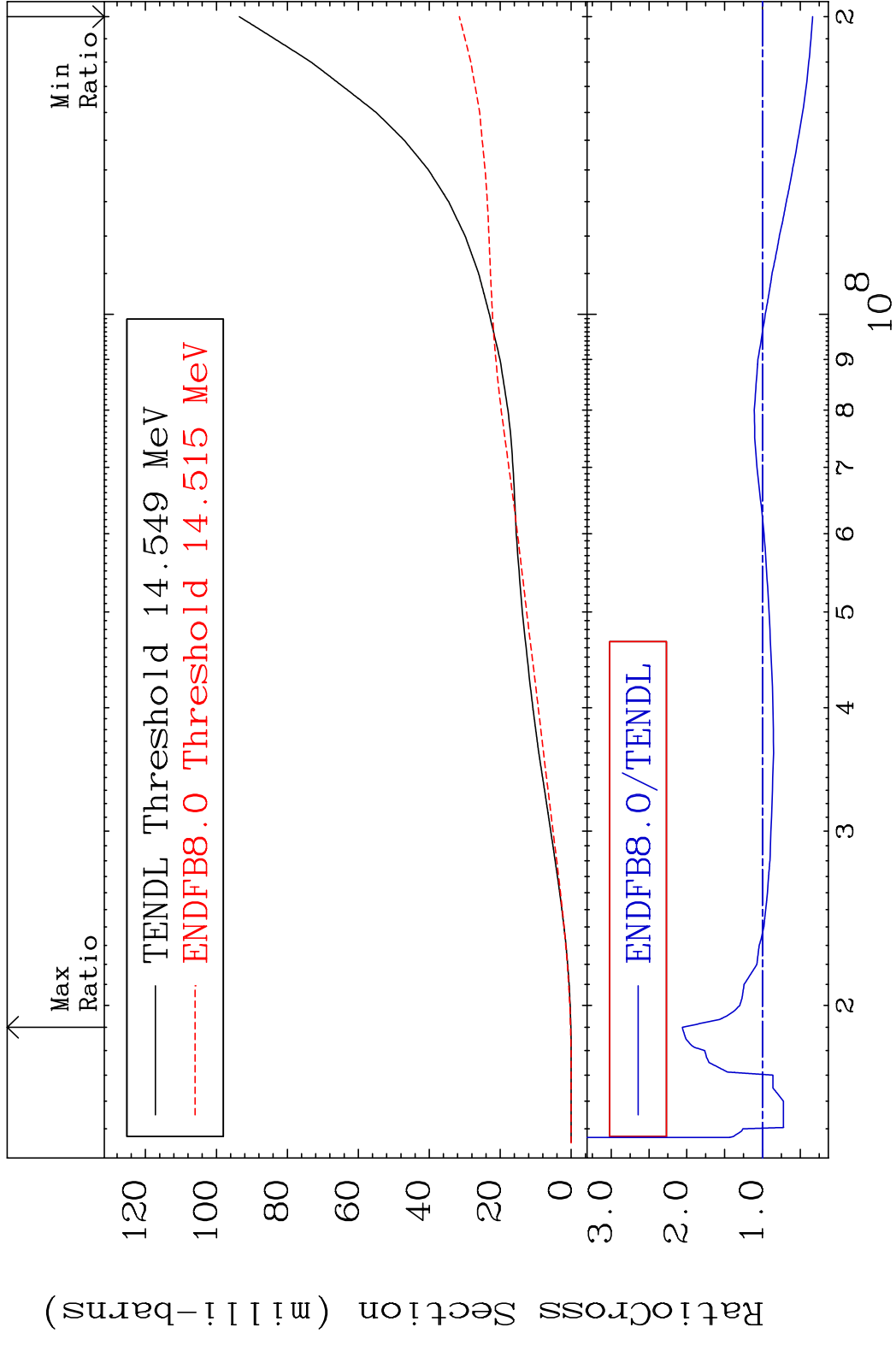


30 20-Ca-46

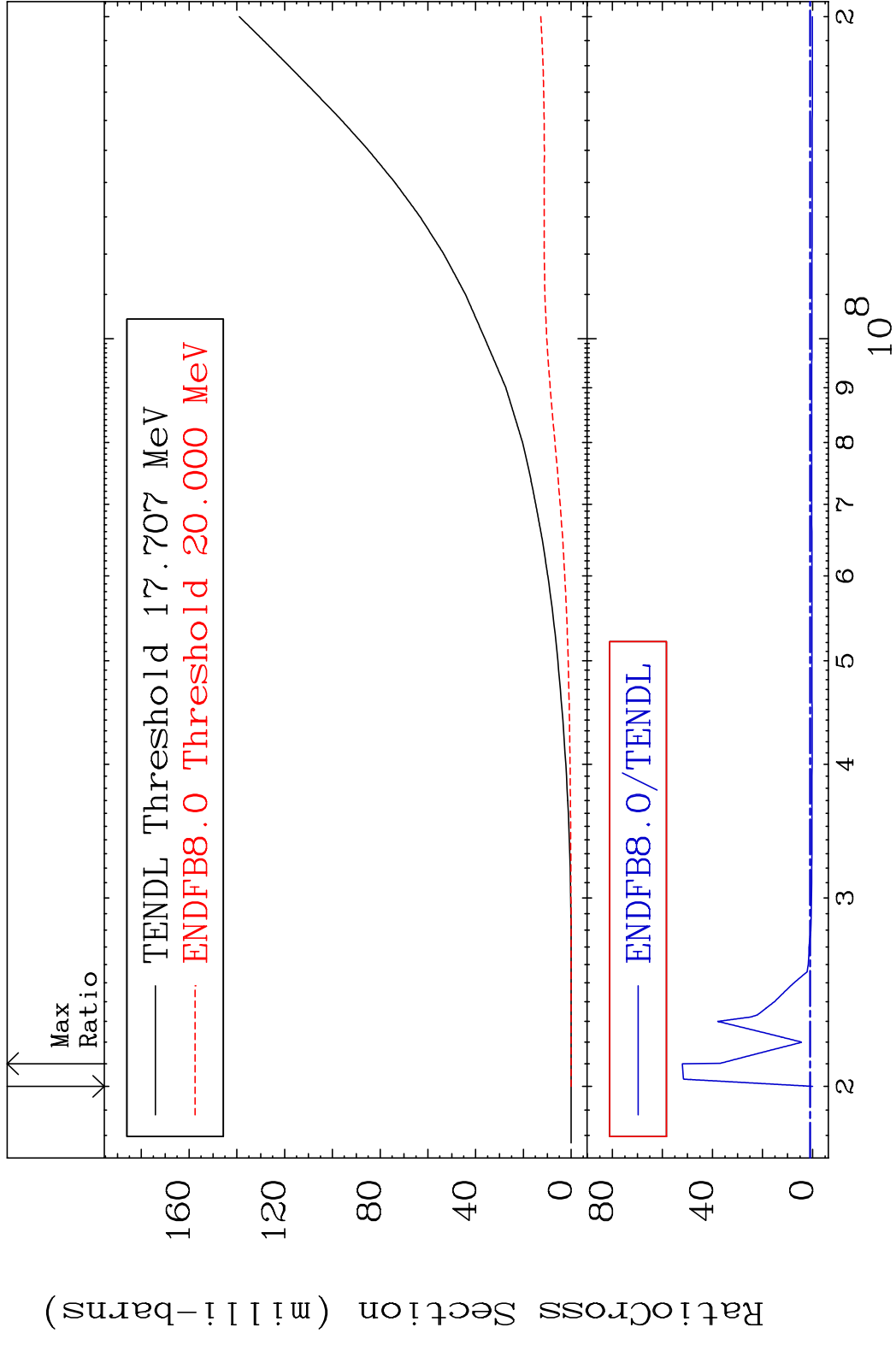
MAT 2043 Deuterium Production 20-Ca-46  
 Cross Section -100.0 To 393.0 %



MAT 2043 Tritium Production 20-Ca-46  
 Cross Section -66.31 To 105.9 %

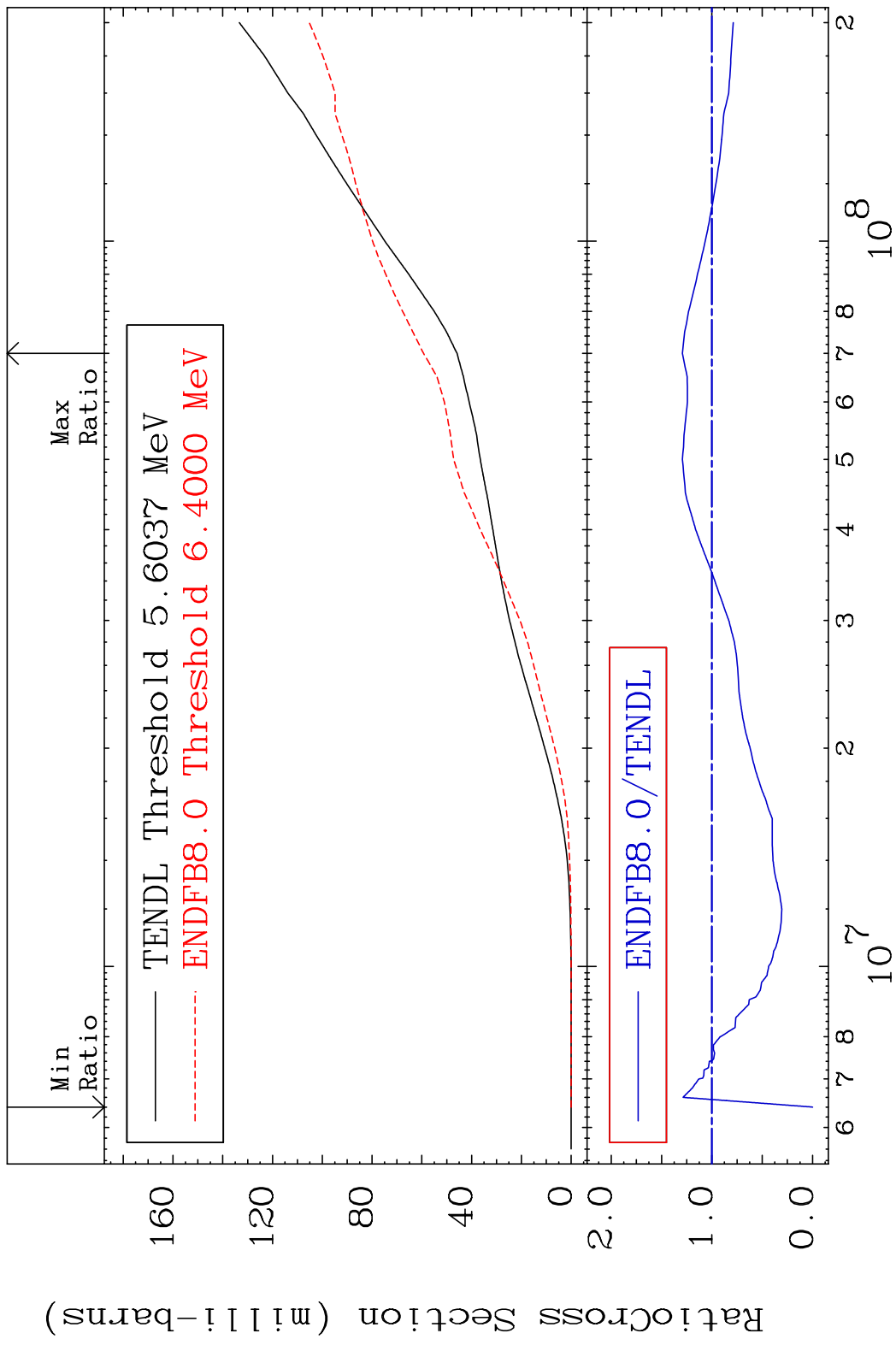


MAT 2043 He-3 Production 20-Ca-46  
 Cross Section -100.0 To 5102. %



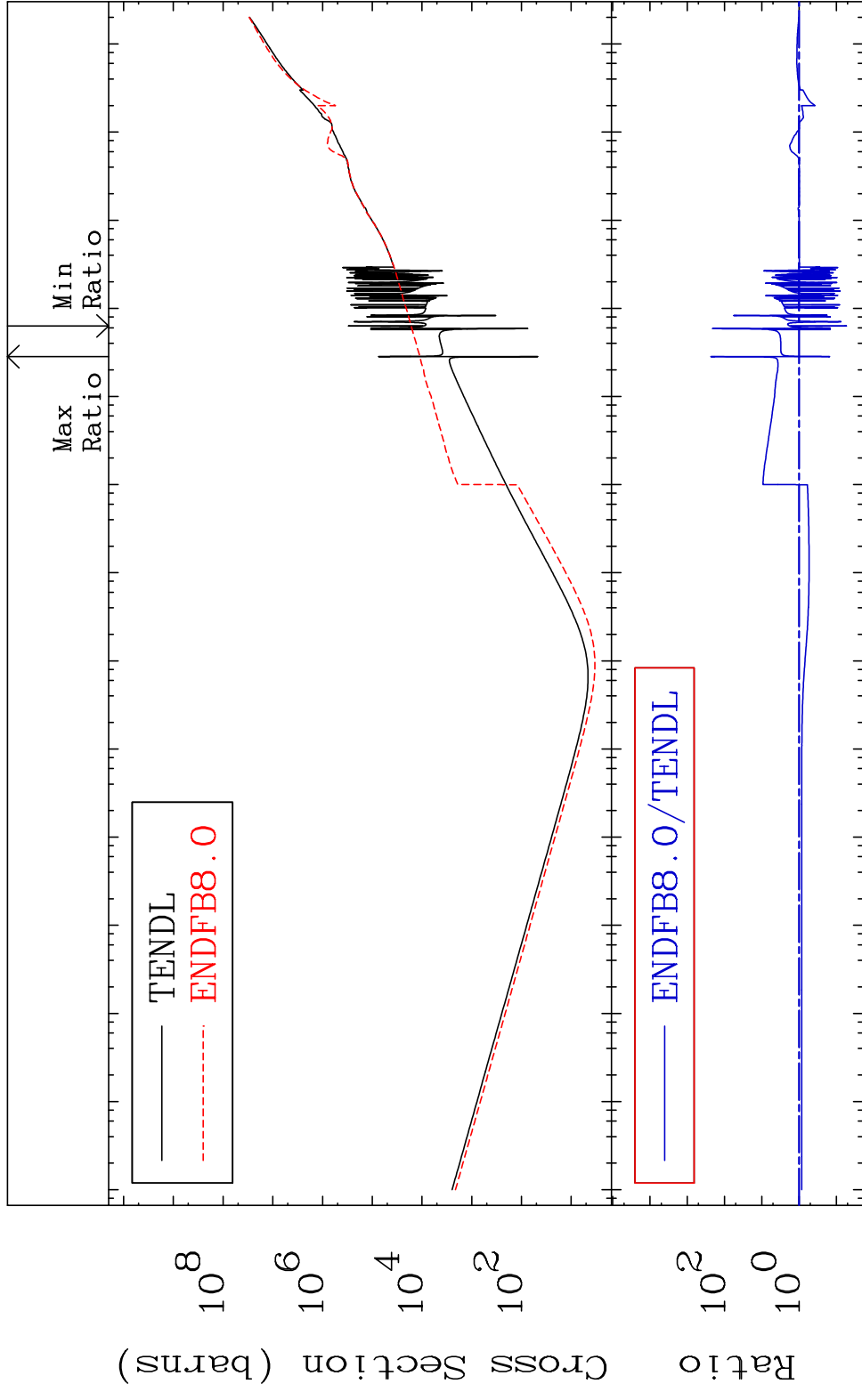
33 Incident Energy (eV) 20-Ca-46

MAT 2043 He-4 Production 20-Ca-46  
 Cross Section -100.0 To 29.32 %



34 20-Ca-46

MAT 2043 Kerma total (eV-barns) 20-Ca-46  
 Cross Section -94.59 To 9999. %



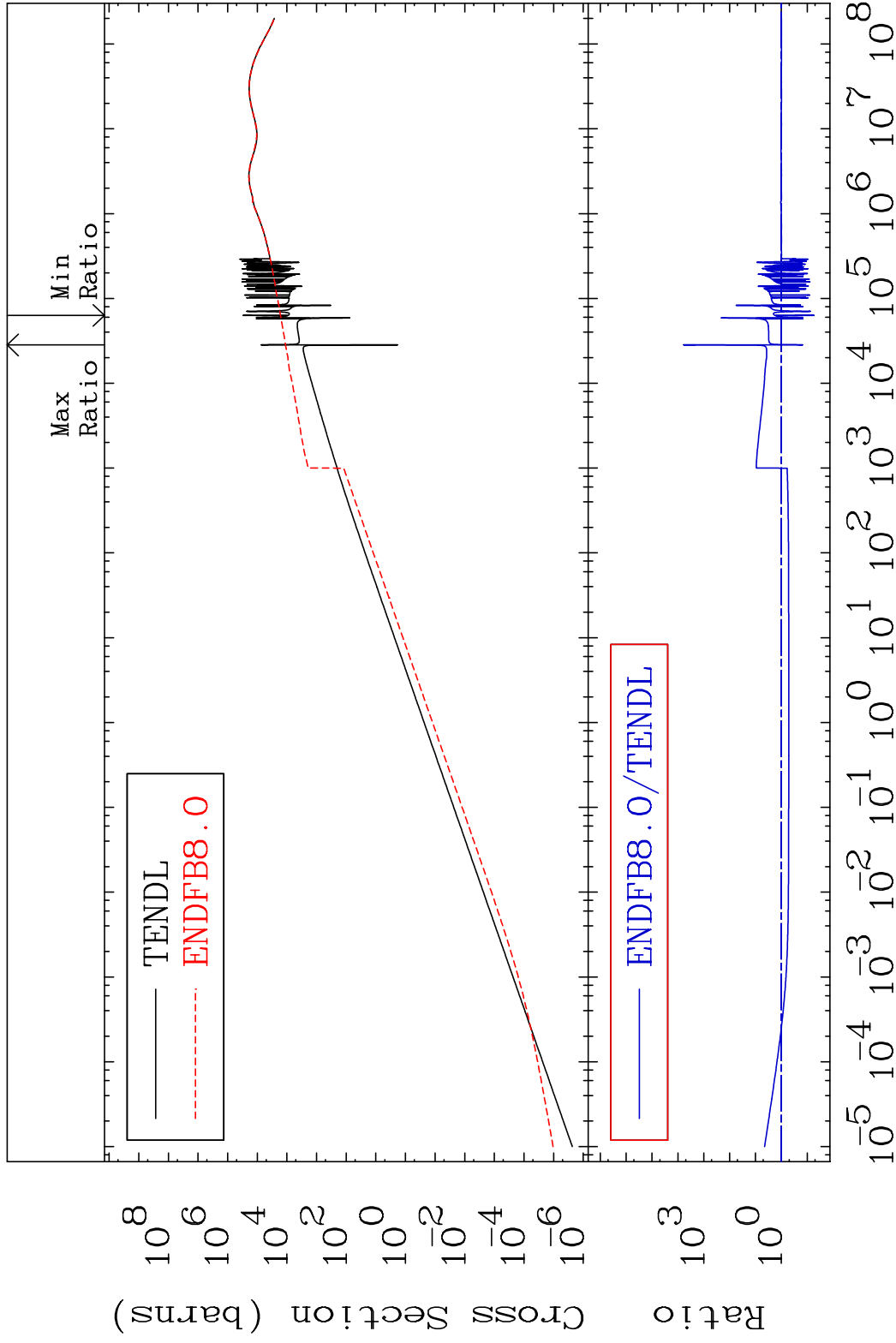
35 Incident Energy (eV) 20-Ca-46

MAT 2043

Kerma elastic

20-Ca-46

Cross Section -94.58 To 9999. %

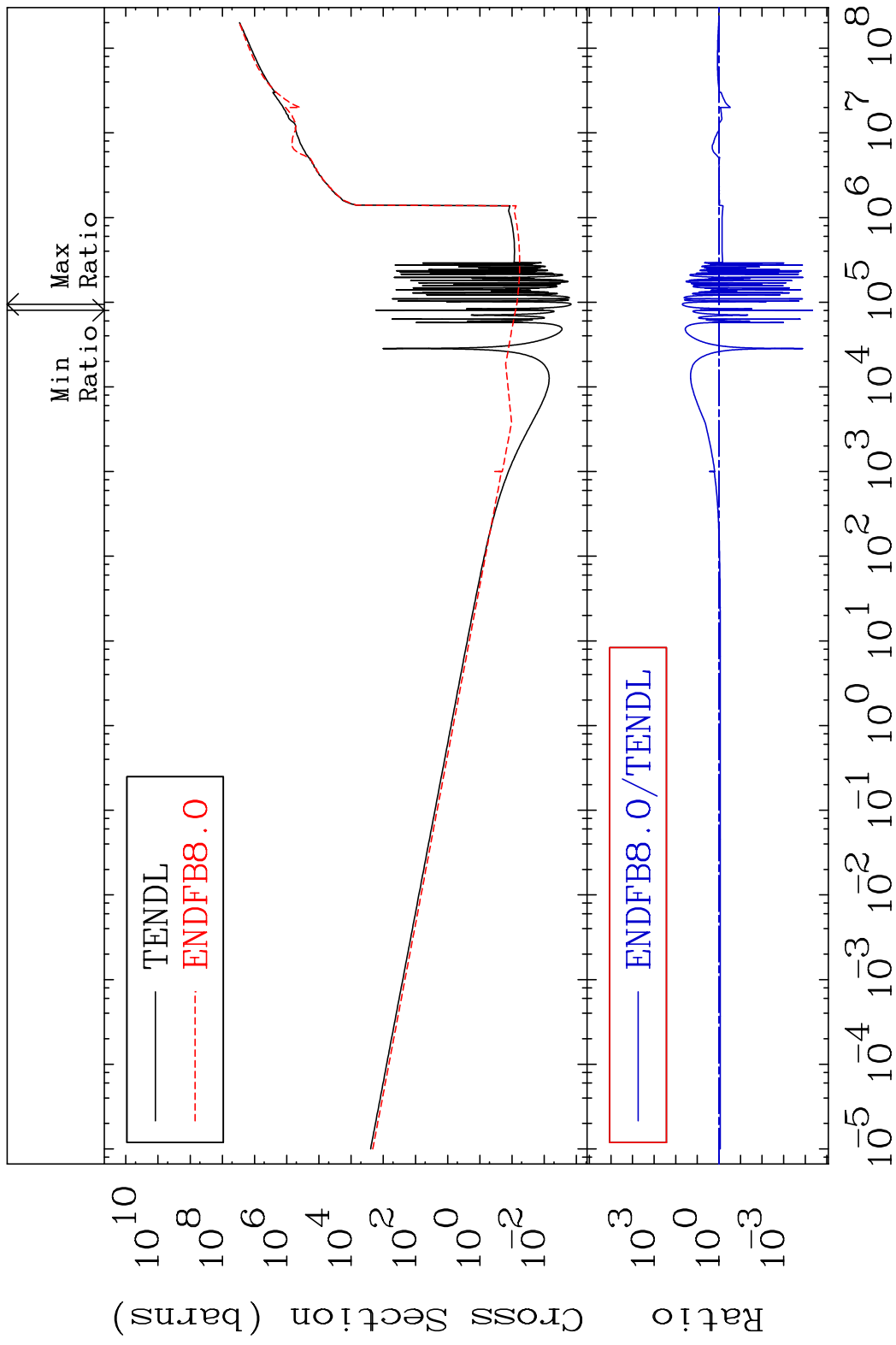


36

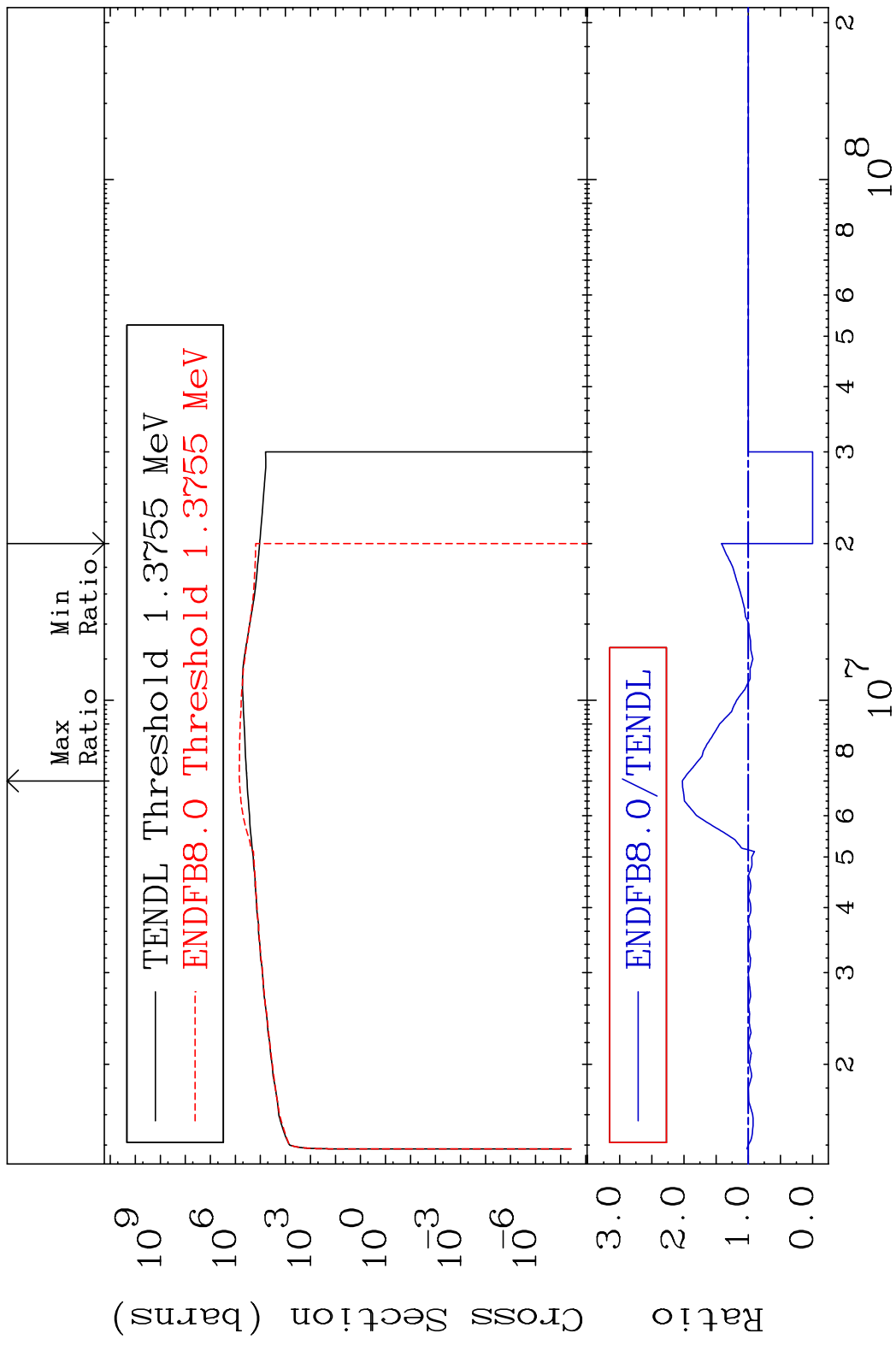
Incident Energy (eV)

20-Ca-46

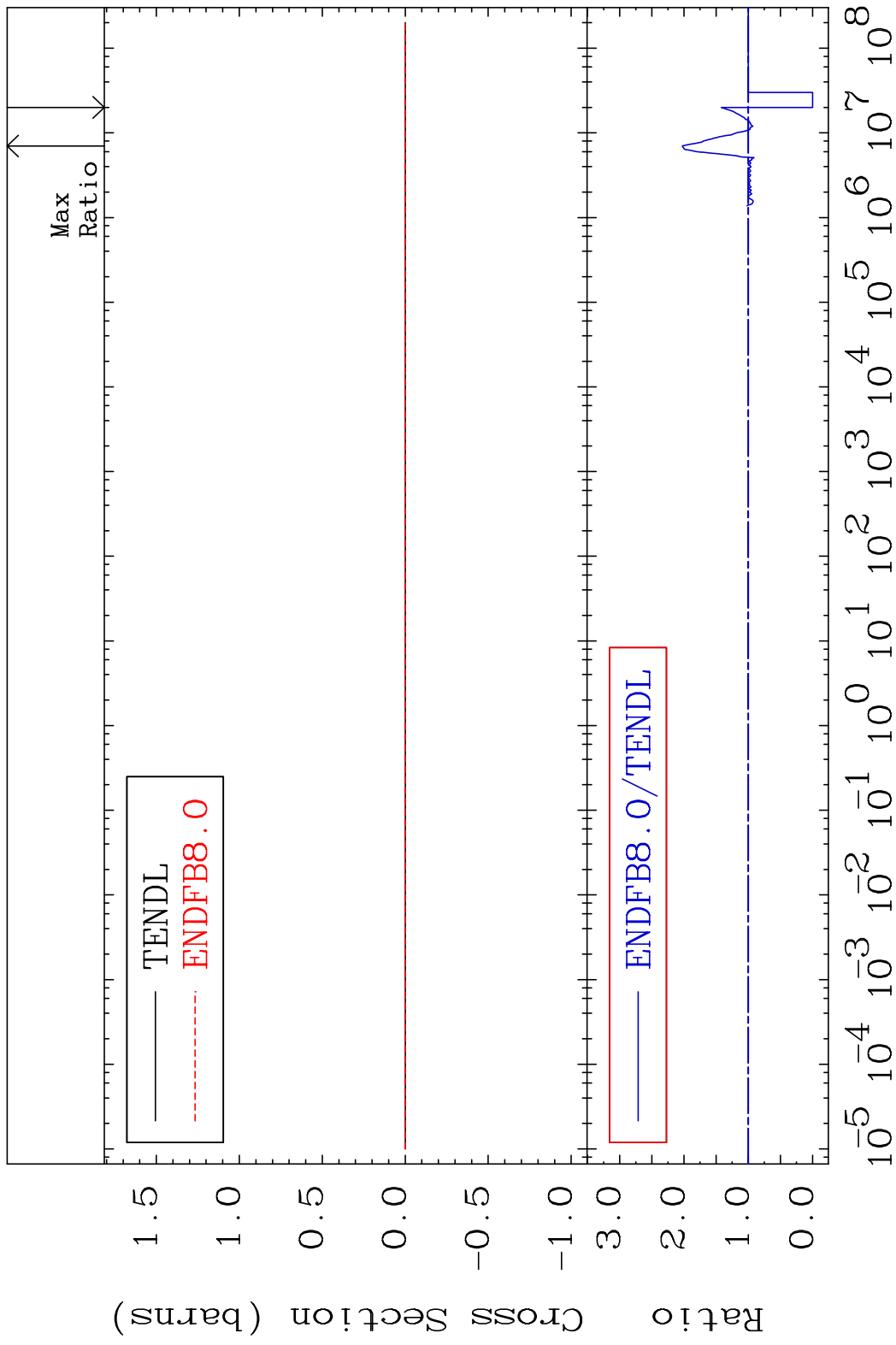
MAT 2043 Kerma non-elastic (all but mt2) 20-Ca-46  
 Cross Section -100.0 To 4800. %



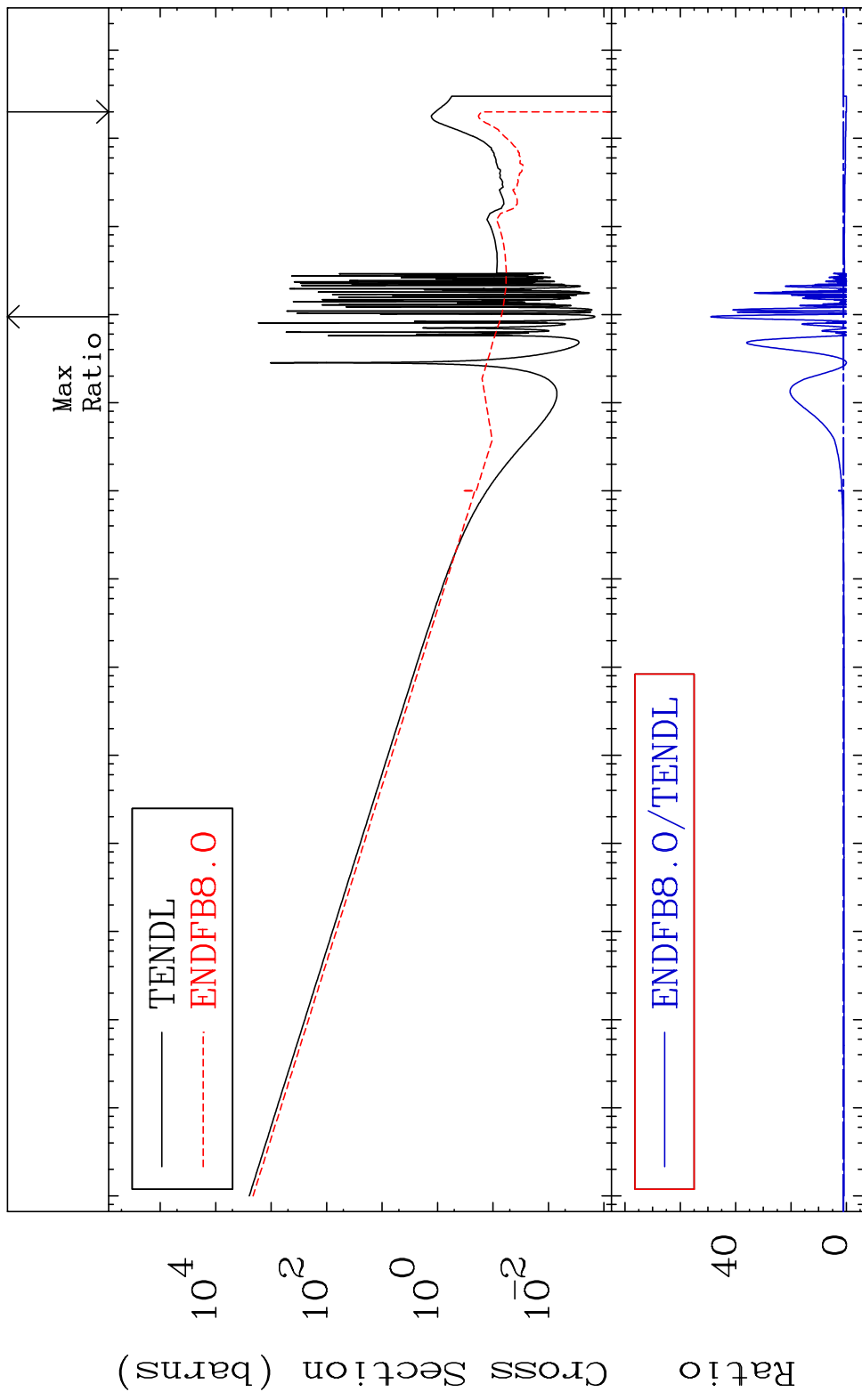
MAT 2043 Kerma inelastic (mt51-91) 20-Ca-46  
 Cross Section -100.0 To 102.5 %



MAT 2043 Kerma fission (mt18 or mt19-20-21-38) 20-Ca-46  
 Cross Section -100.0 To 102.5 %

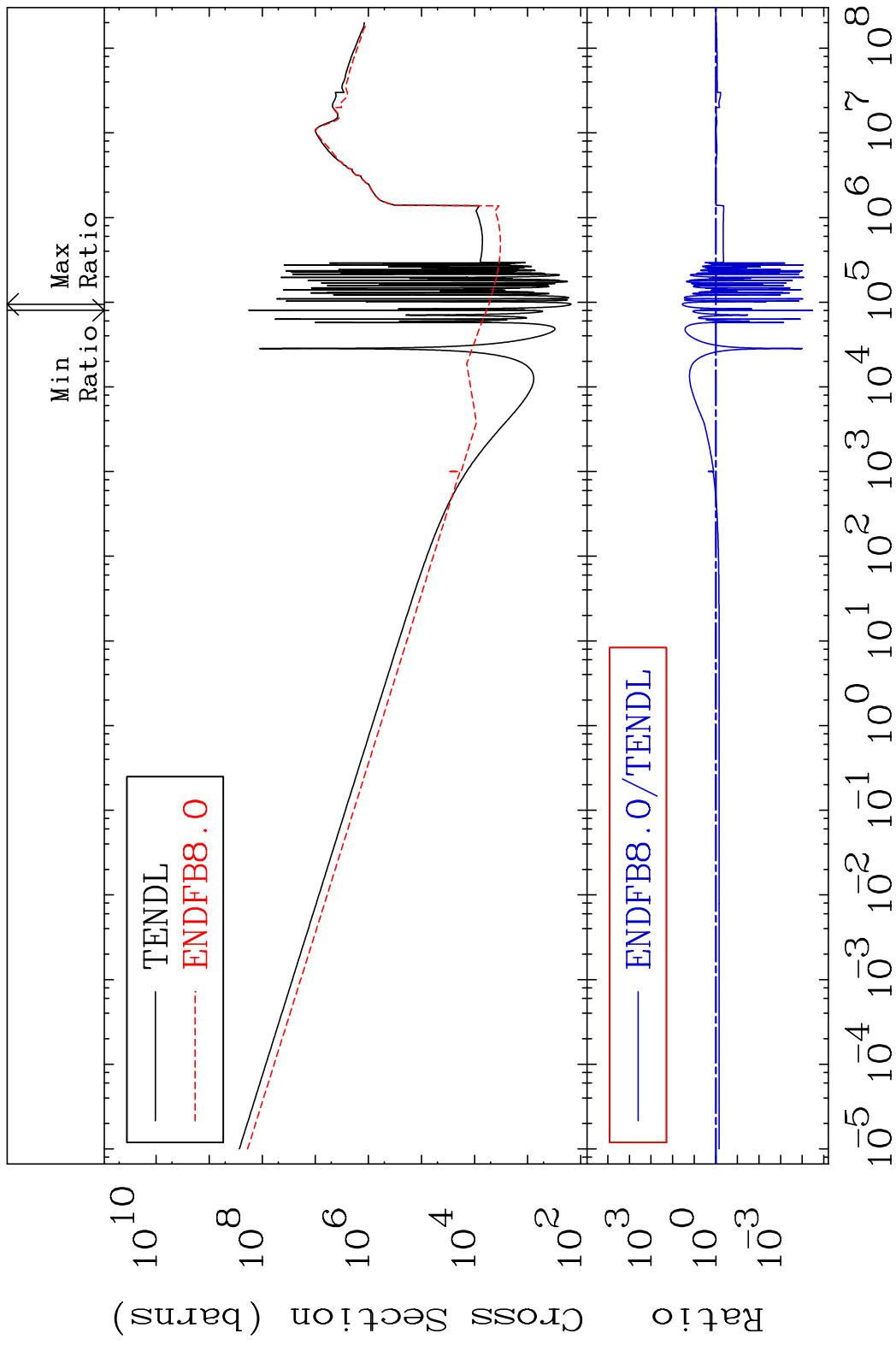


MAT 2043 Kerma capture (mt102) 20-Ca-46  
 Cross Section -100.0 To 4800. %



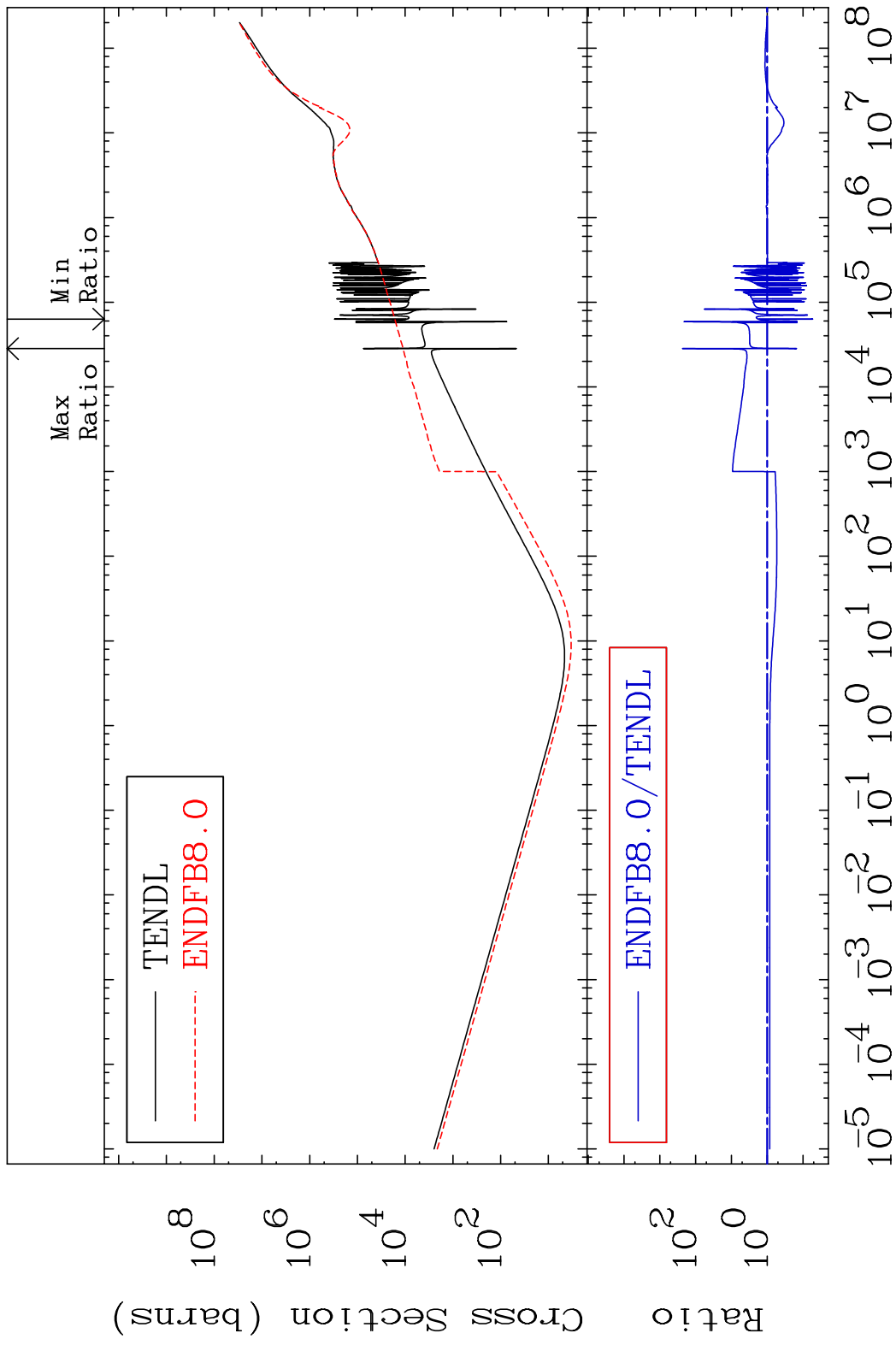
40 Incident Energy (eV) 20-Ca-46

MAT 2043 Total photon (eV-barns) 20-Ca-46  
 Cross Section -100.0 To 3443. %

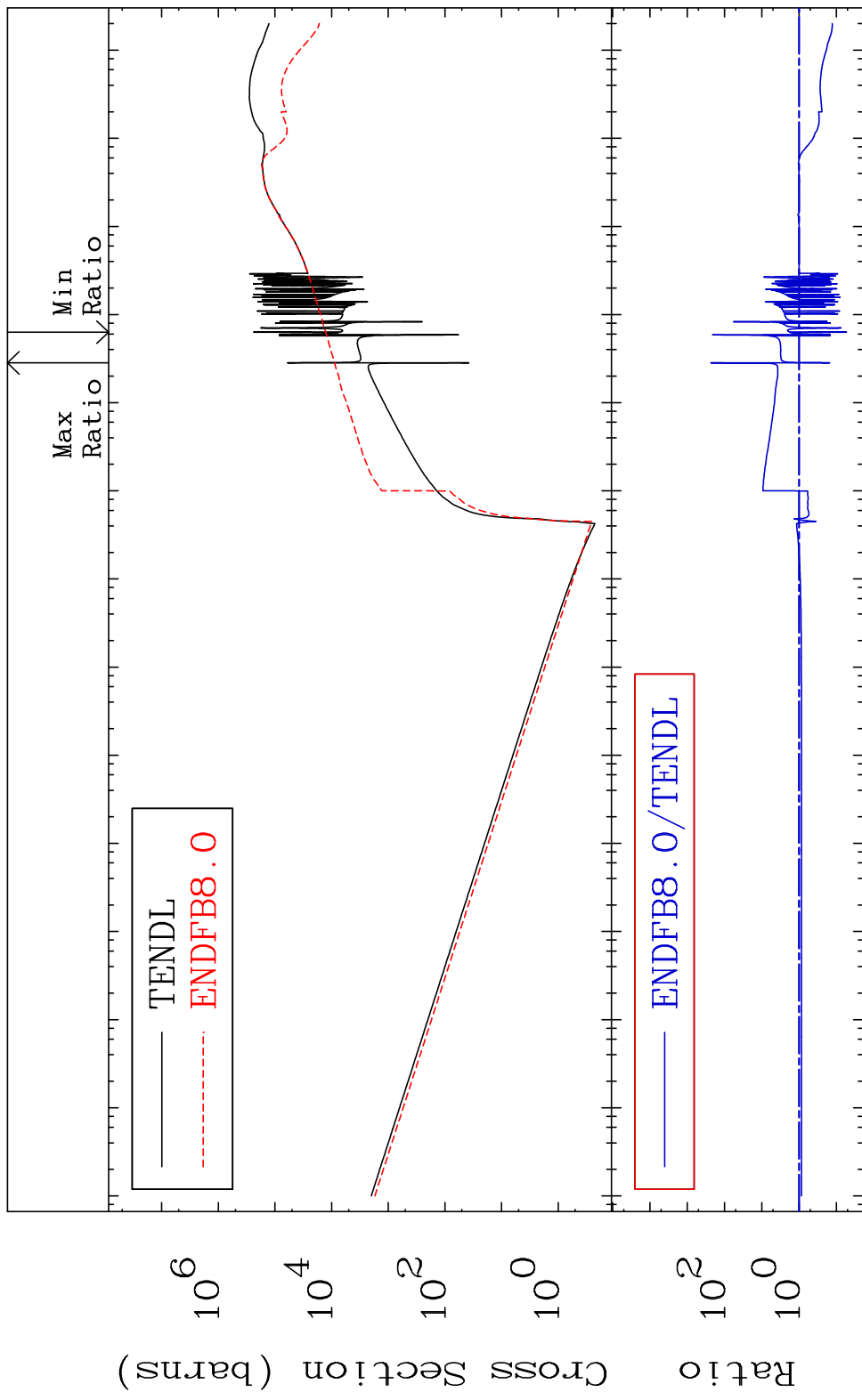


41 Incident Energy (eV) 20-Ca-46

MAT 2043 Total kinematic kerma (high limit) 20-Ca-46  
 Cross Section -94.59 To 9999. %

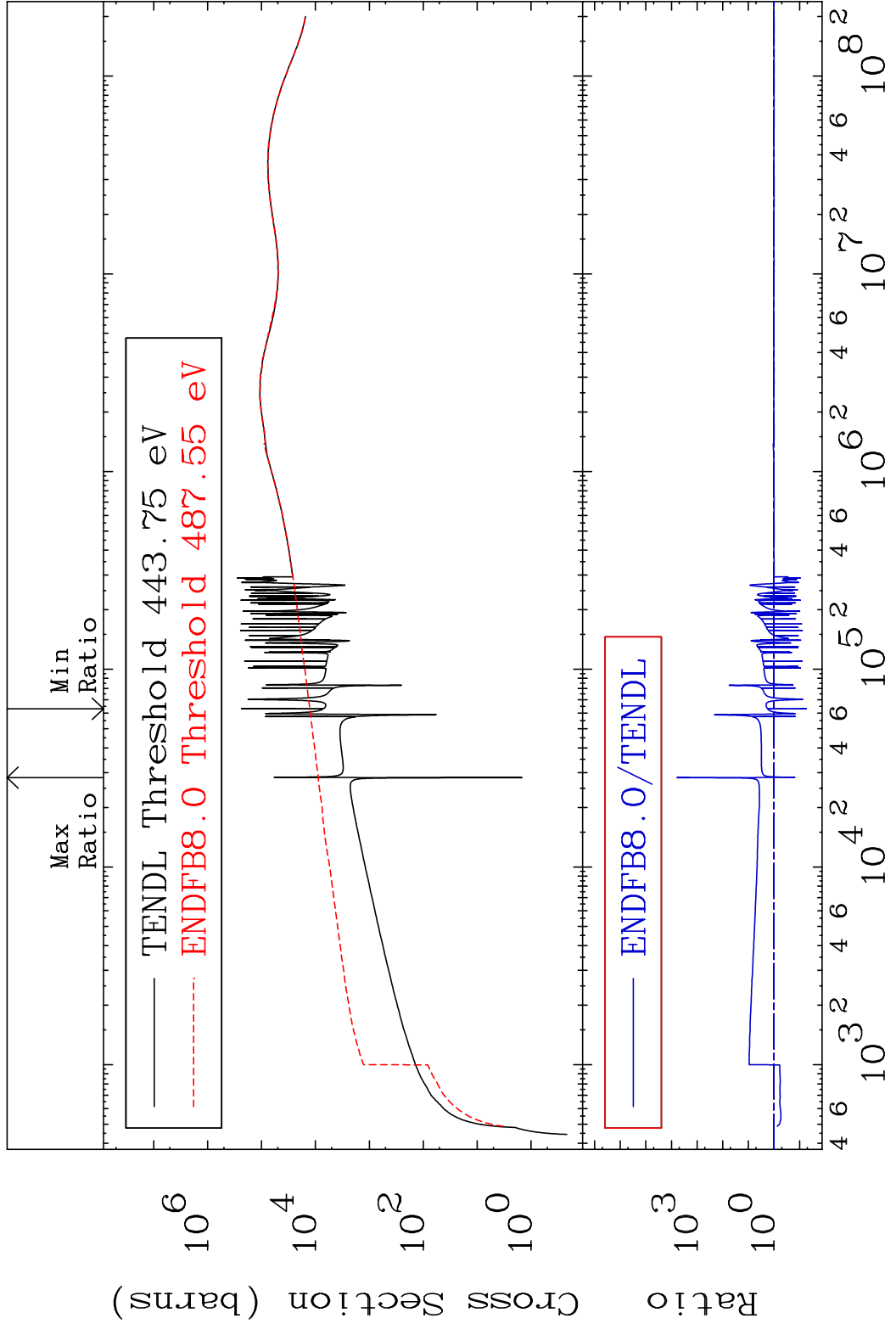


MAT 2043 Dpa total (eV-barns) 20-Ca-46  
 Cross Section -94.59 To 9999. %

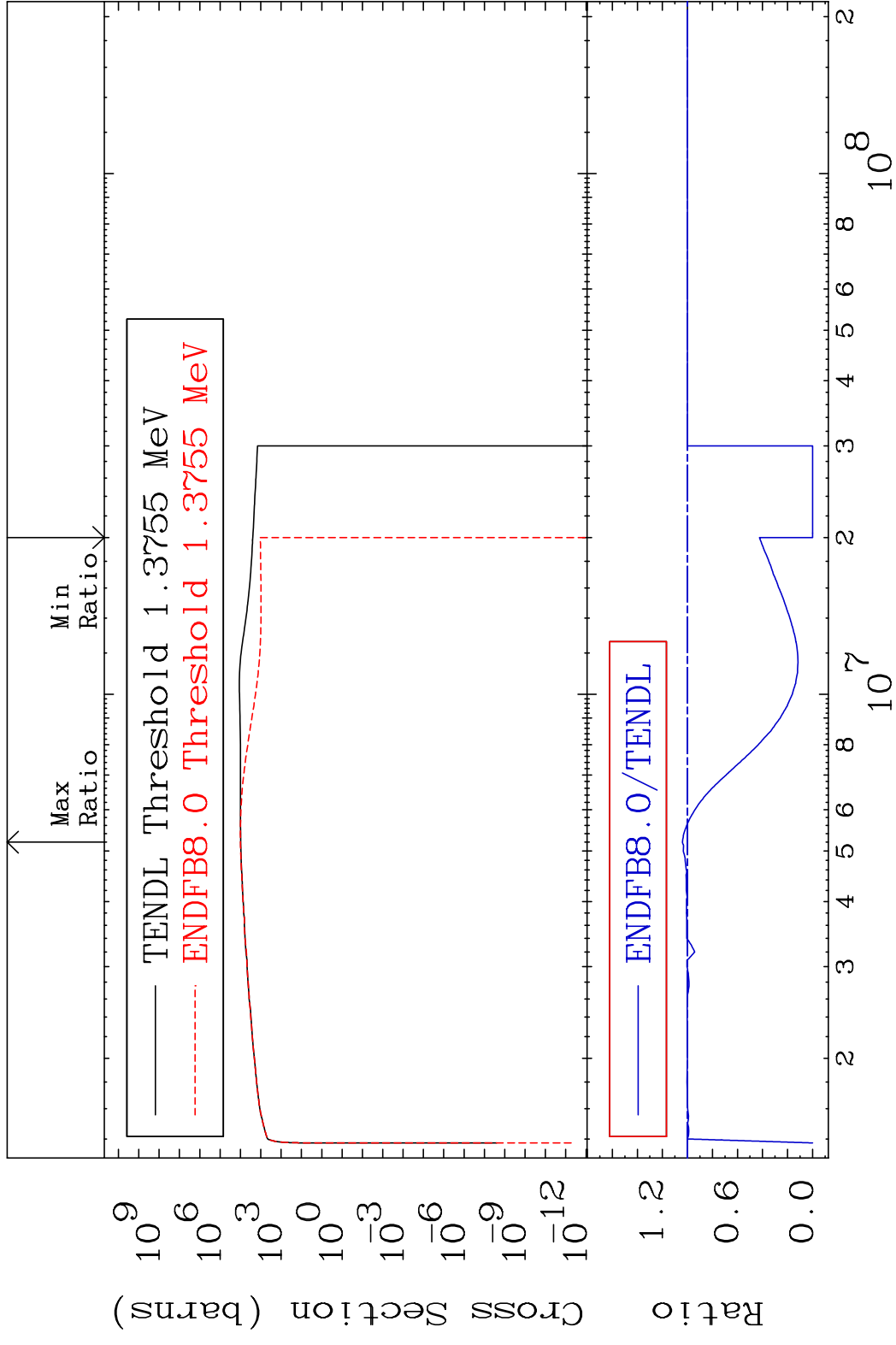


43 Incident Energy (eV) 20-Ca-46

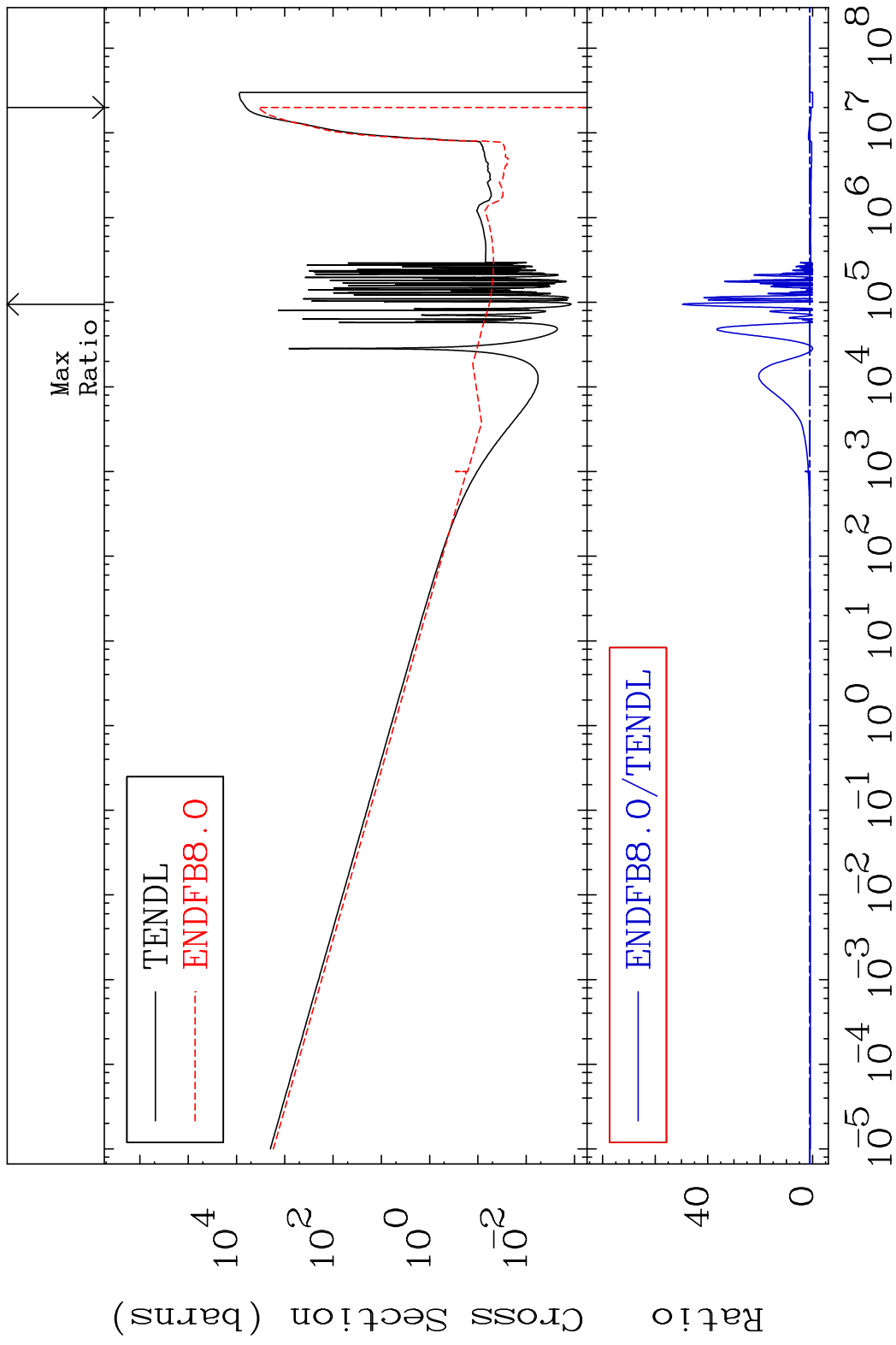
MAT 2043 Dpa elastic (mt2) 20-Ca-46  
 Cross Section -94.58 To 9999. %



MAT 2043 Dpa inelastic (mt51-91) 20-Ca-46  
 Cross Section -100.0 To 4.047 %



MAT 2043 Dpa disappearance (mt102 -120) 20-Ca-46  
 Cross Section -100.0 To 4863. %



46 Incident Energy (eV) 20-Ca-46