

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

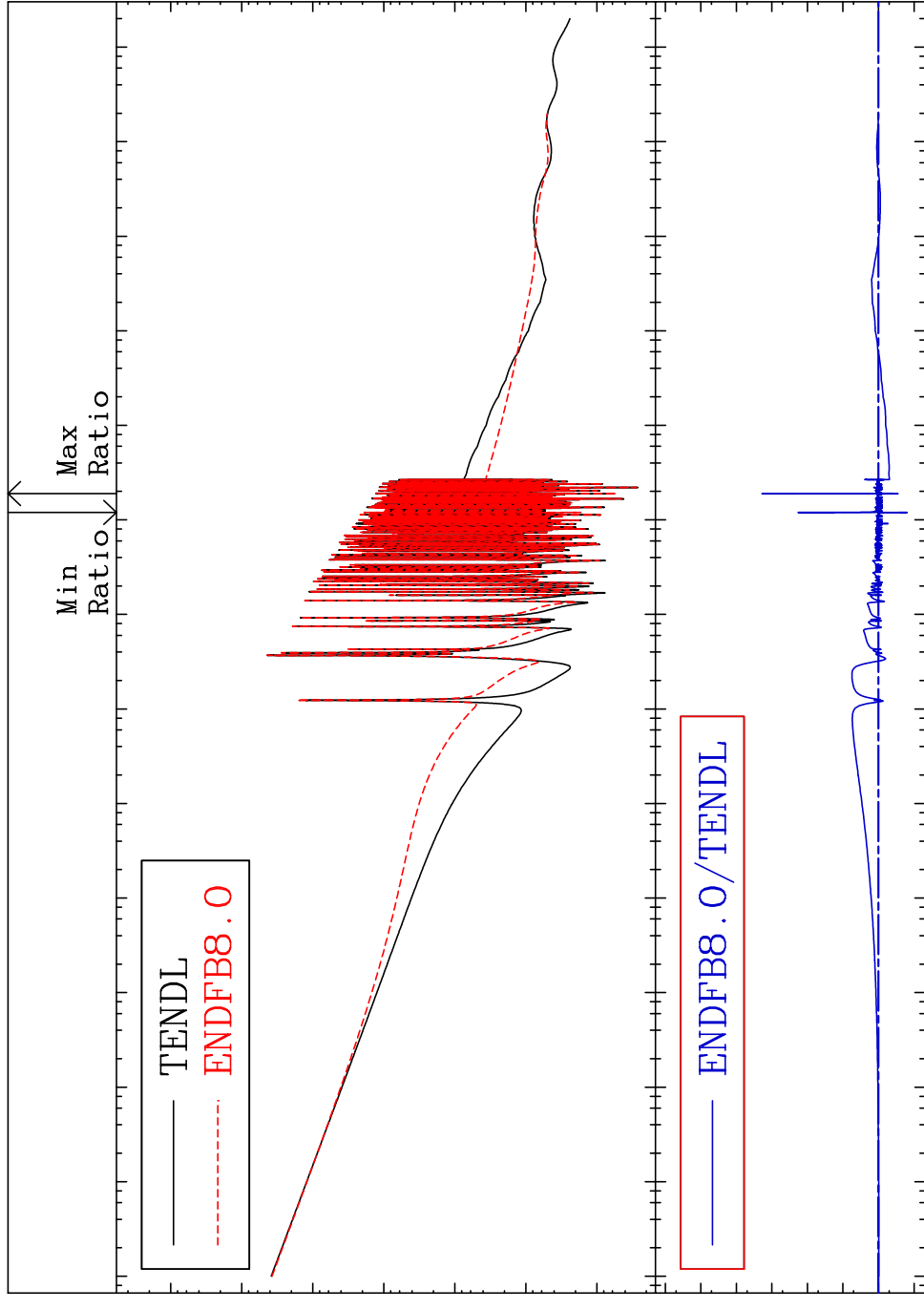
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6425

Total Cross Section -84.43 To 9999. %

64-Gd-152



Cross Section (barns)
Ratio

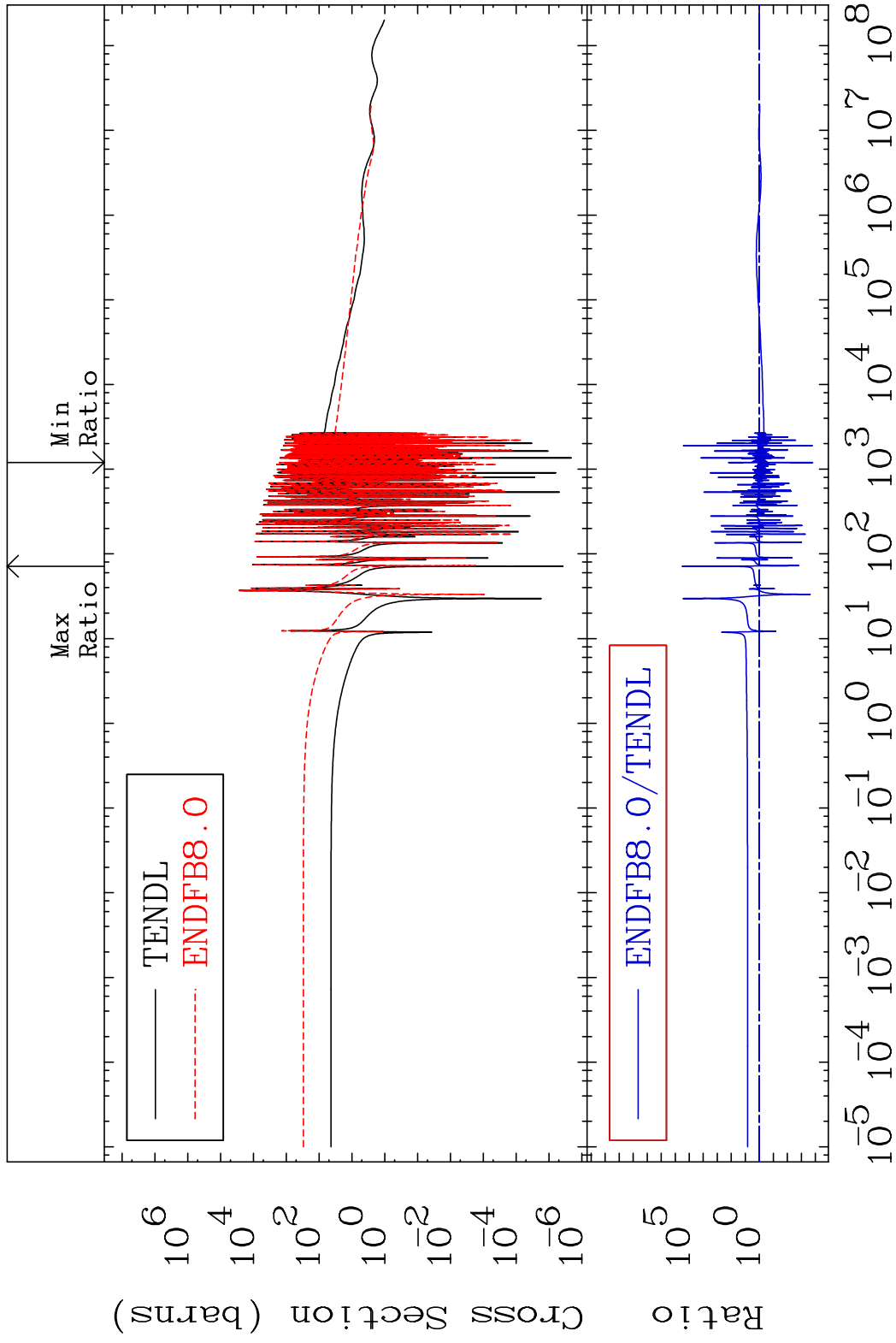
1 Incident Energy (eV) 64-Gd-152

MAT 6425

Elastic

64-Gd-152

Cross Section -99.98 To 9999. %

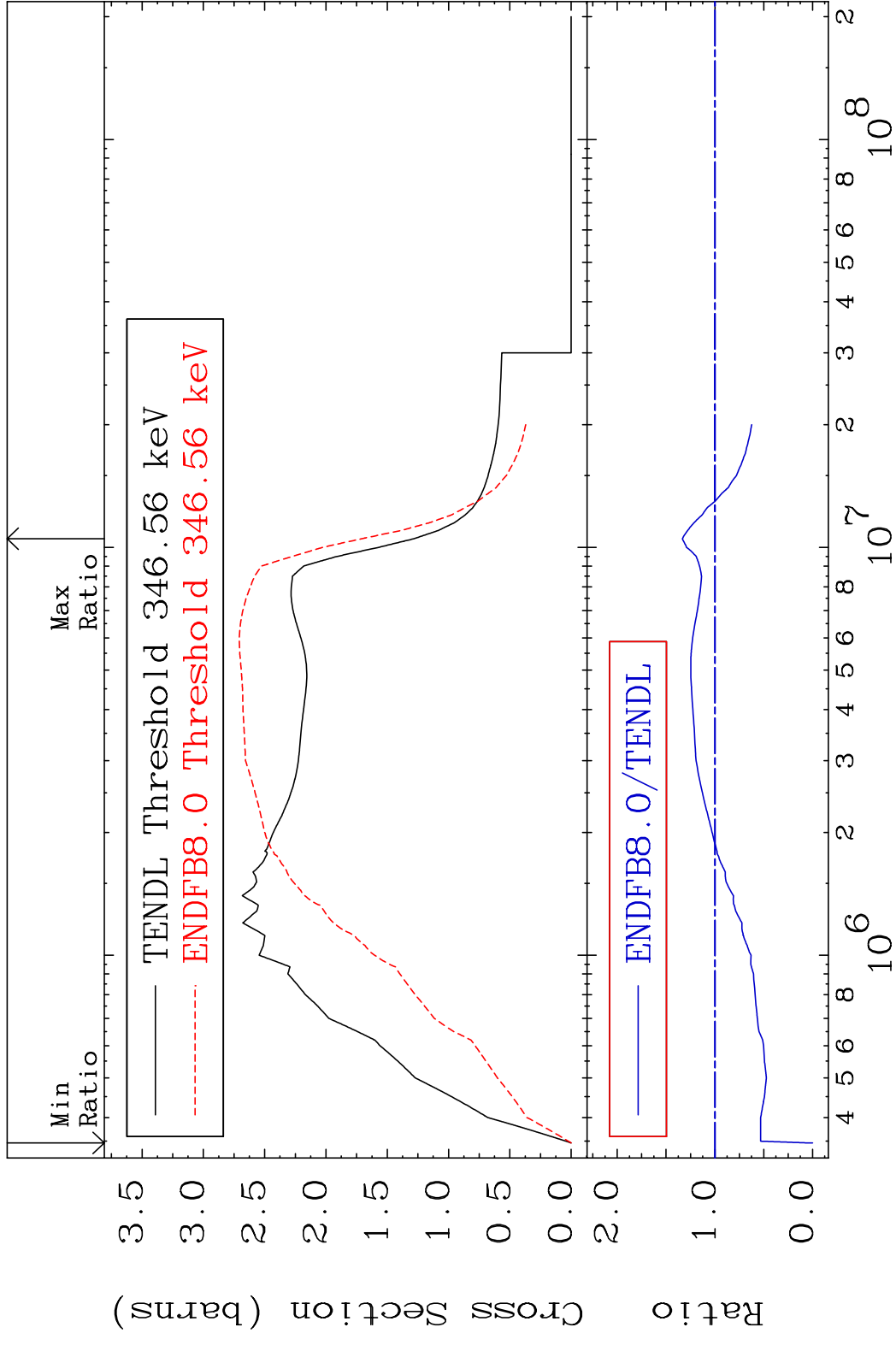


2

Incident Energy (eV)

64-Gd-152

MAT 6425 Inelastic 64-Gd-152
 Cross Section -100.0 To 33.33 %

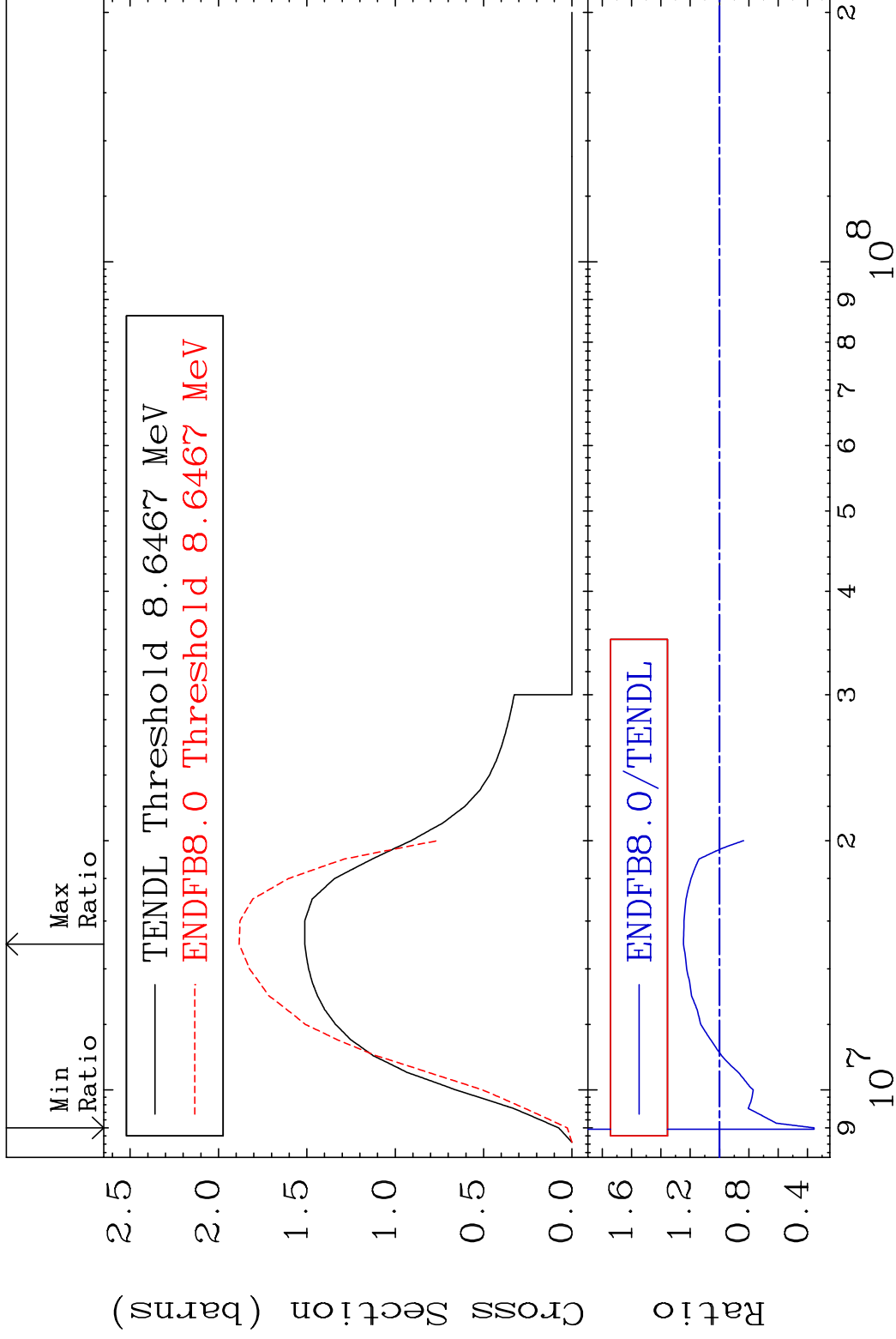


MAT 6425

(n,2n)

64-Gd-152

Cross Section -64.49 To 24.60 %



4

Incident Energy (eV)

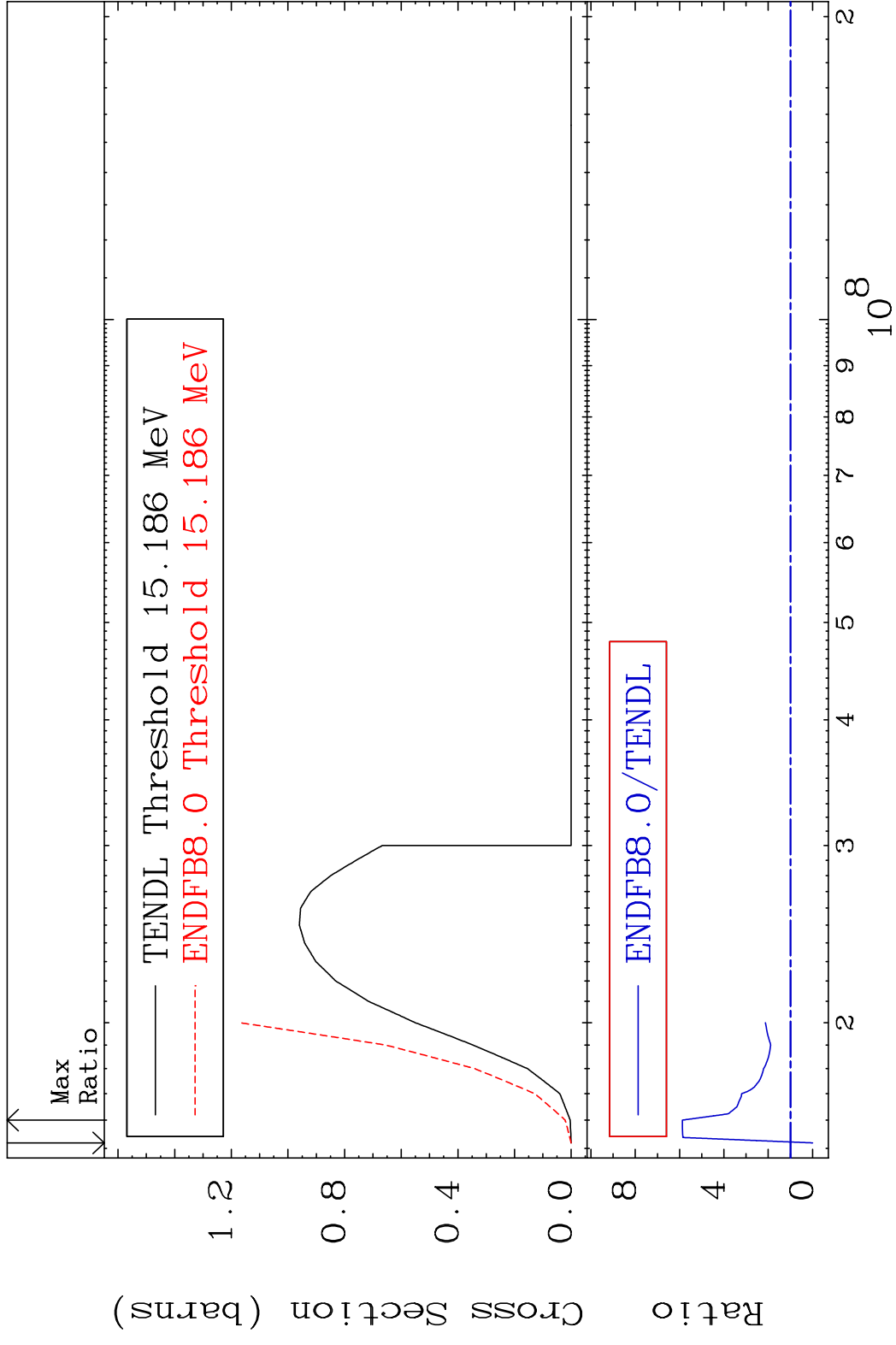
64-Gd-152

MAT 6425

(n,3n)

64-Gd-152

Cross Section -100.0 To 487.6 %

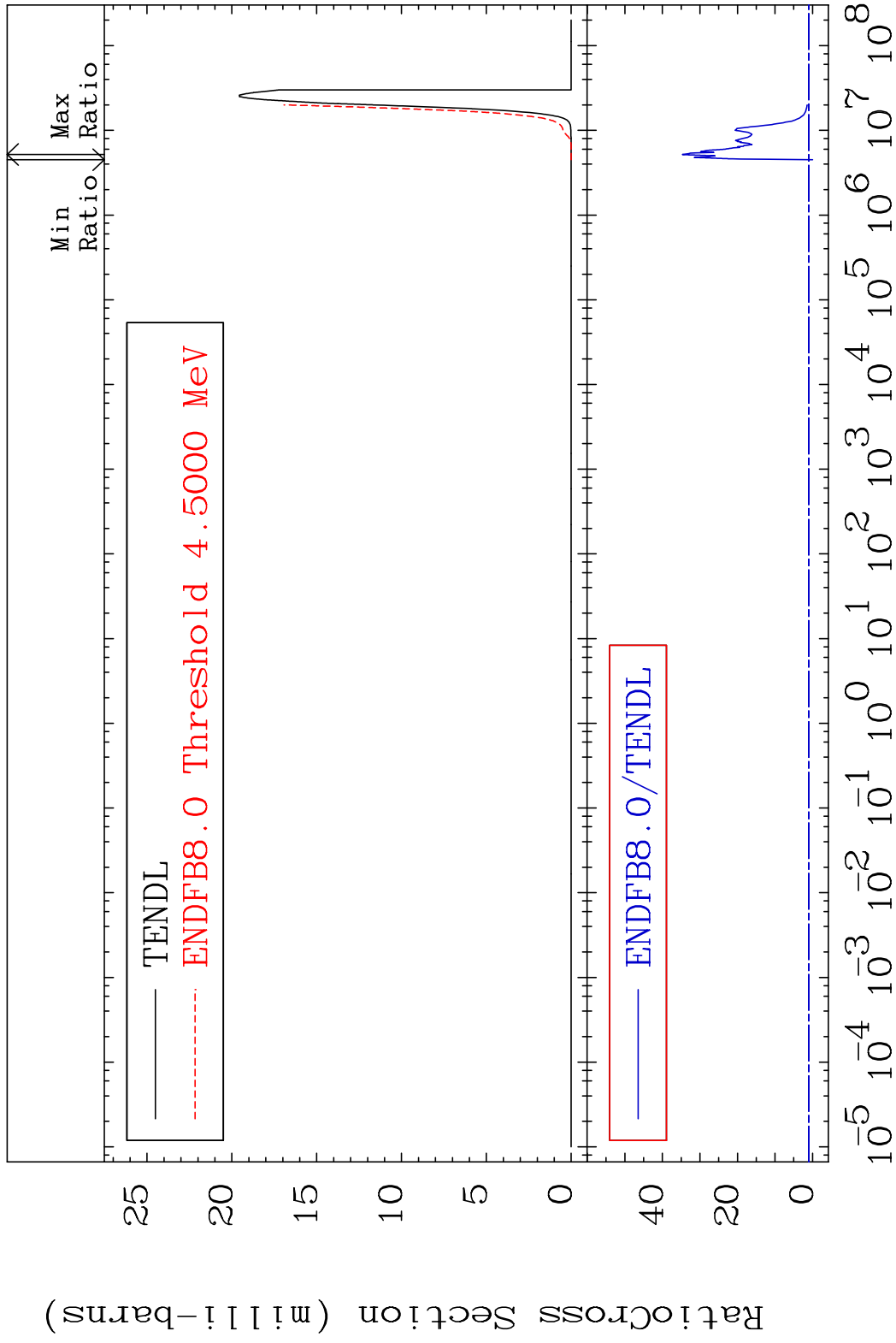


MAT 6425

(n, n') α

64-Gd-152

Cross Section -100.0 To 3368. %

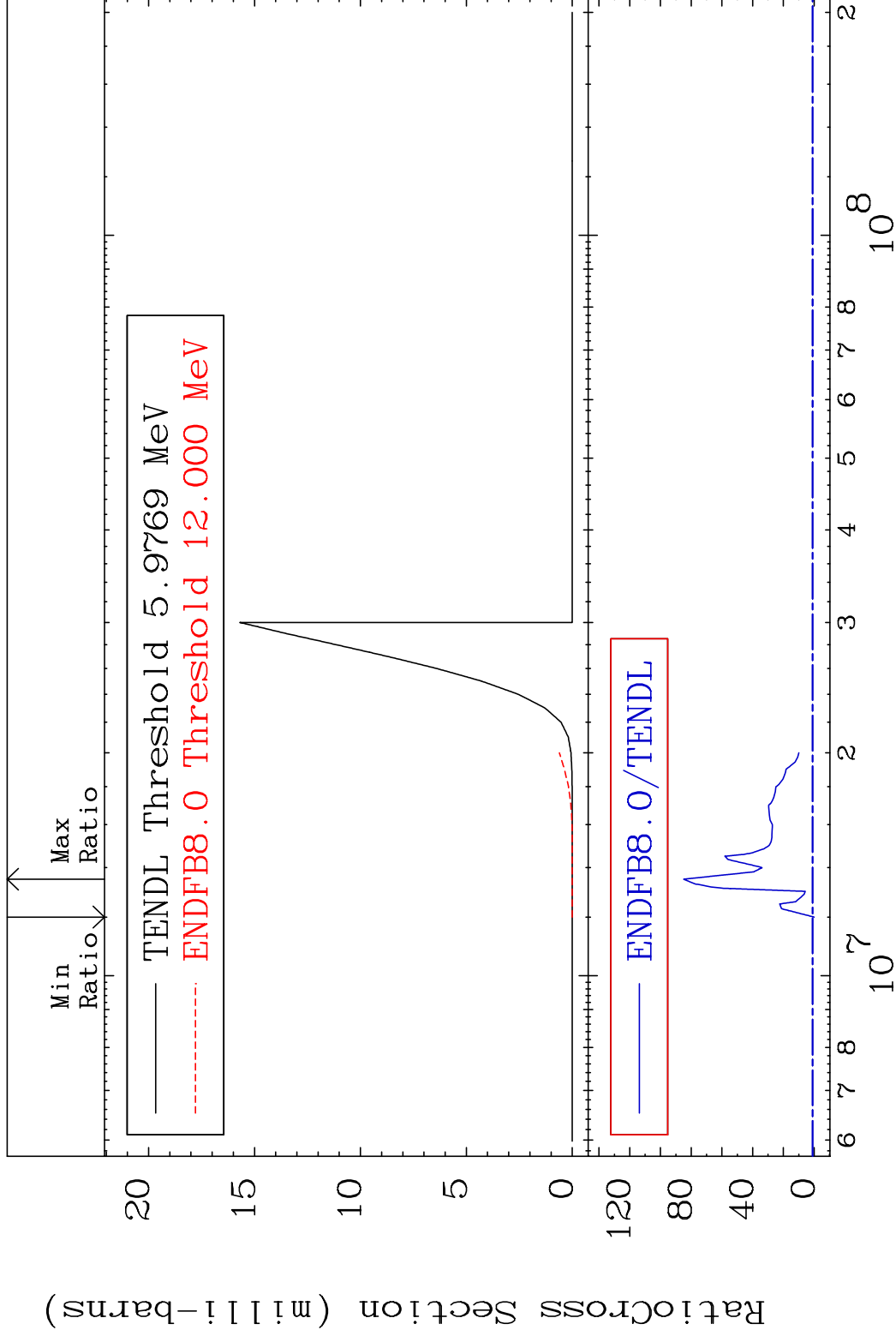


MAT 6425

(n,2n) α

64-Gd-152

Cross Section -100.0 To 8390. %

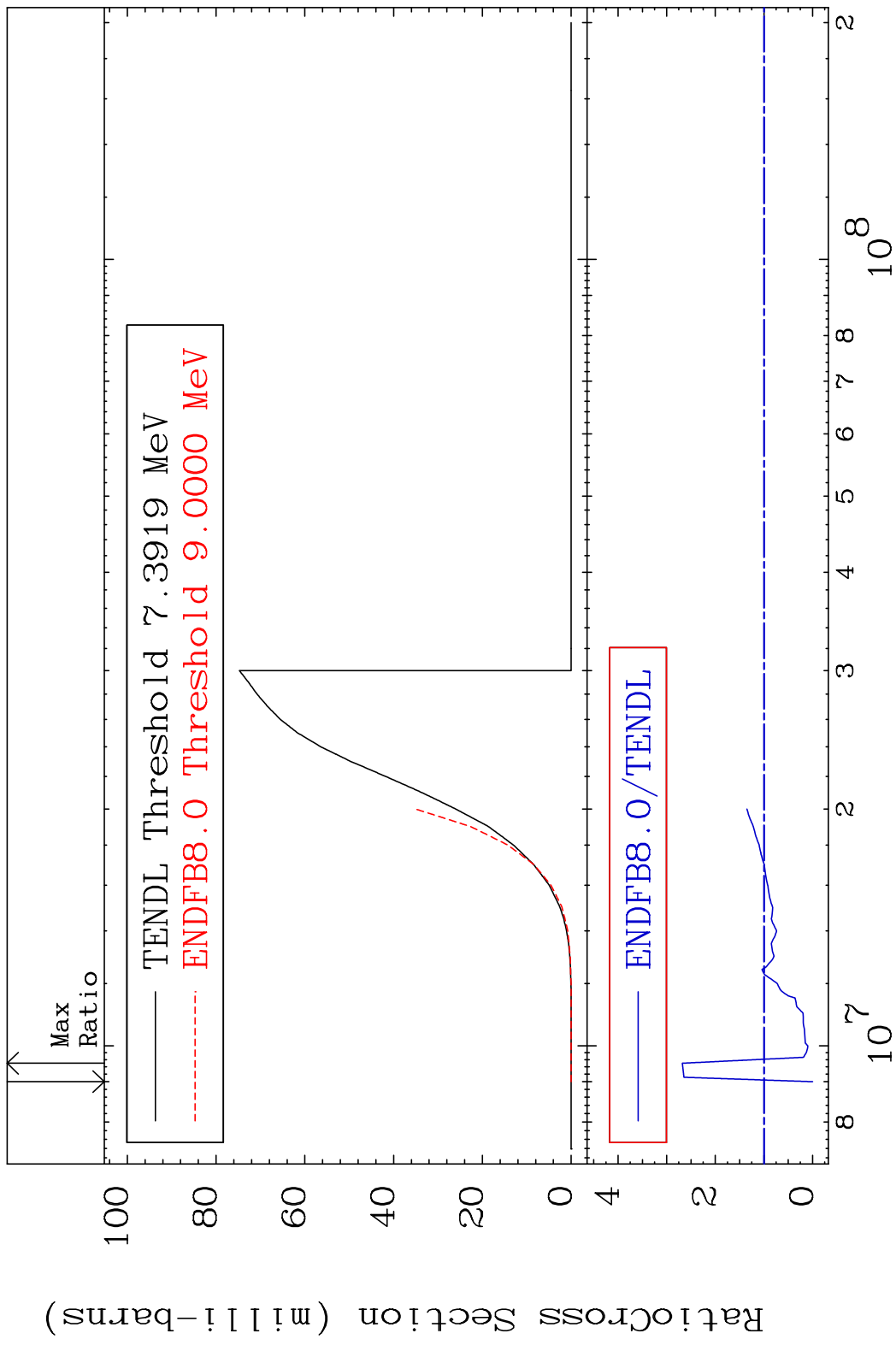


7

Incident Energy (eV)

64-Gd-152

MAT 6425 (n, n') p 64-Gd-152
 Cross Section -100.0 To 167.8 %



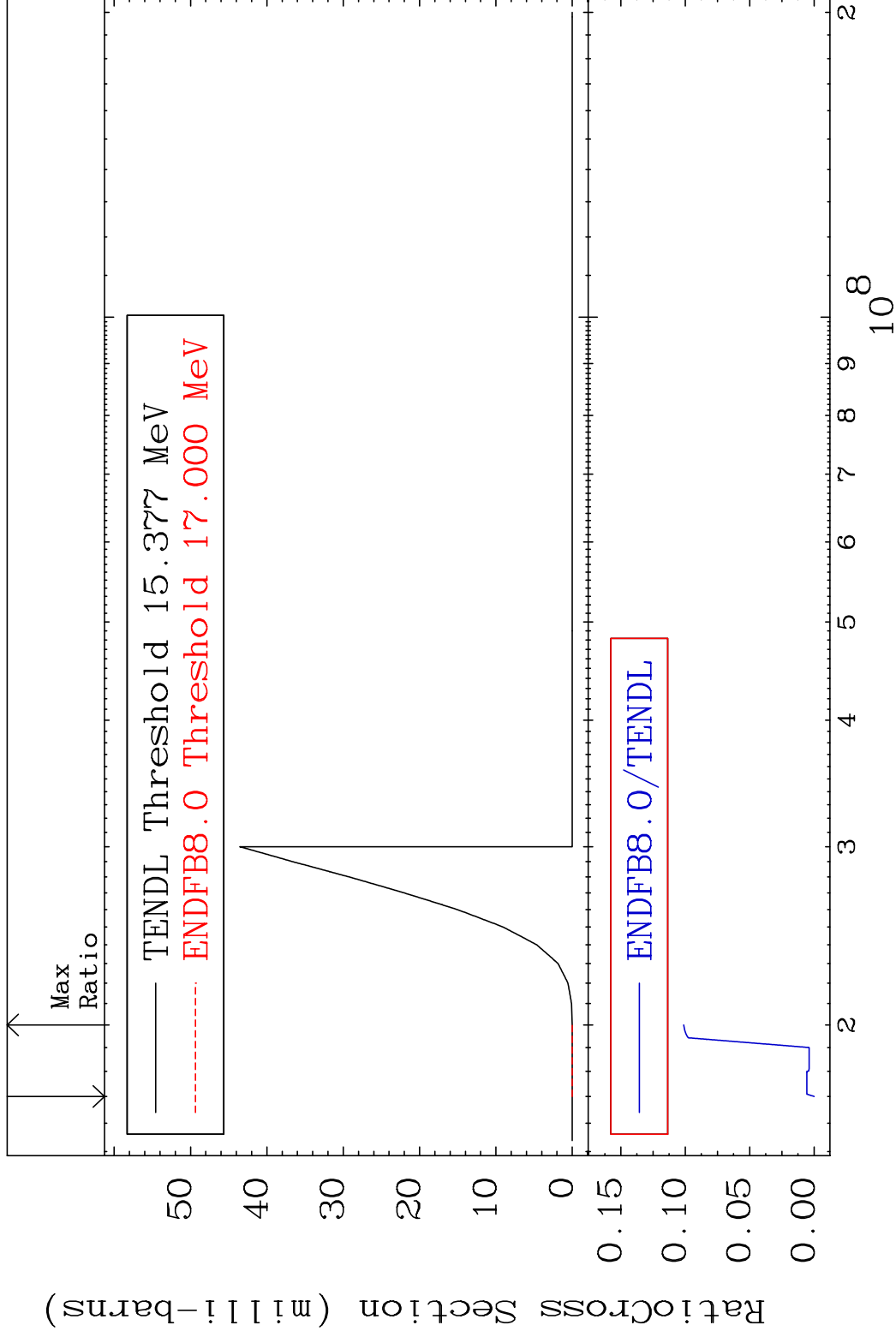
8 8 Incident Energy (eV) 64-Gd-152

MAT 6425

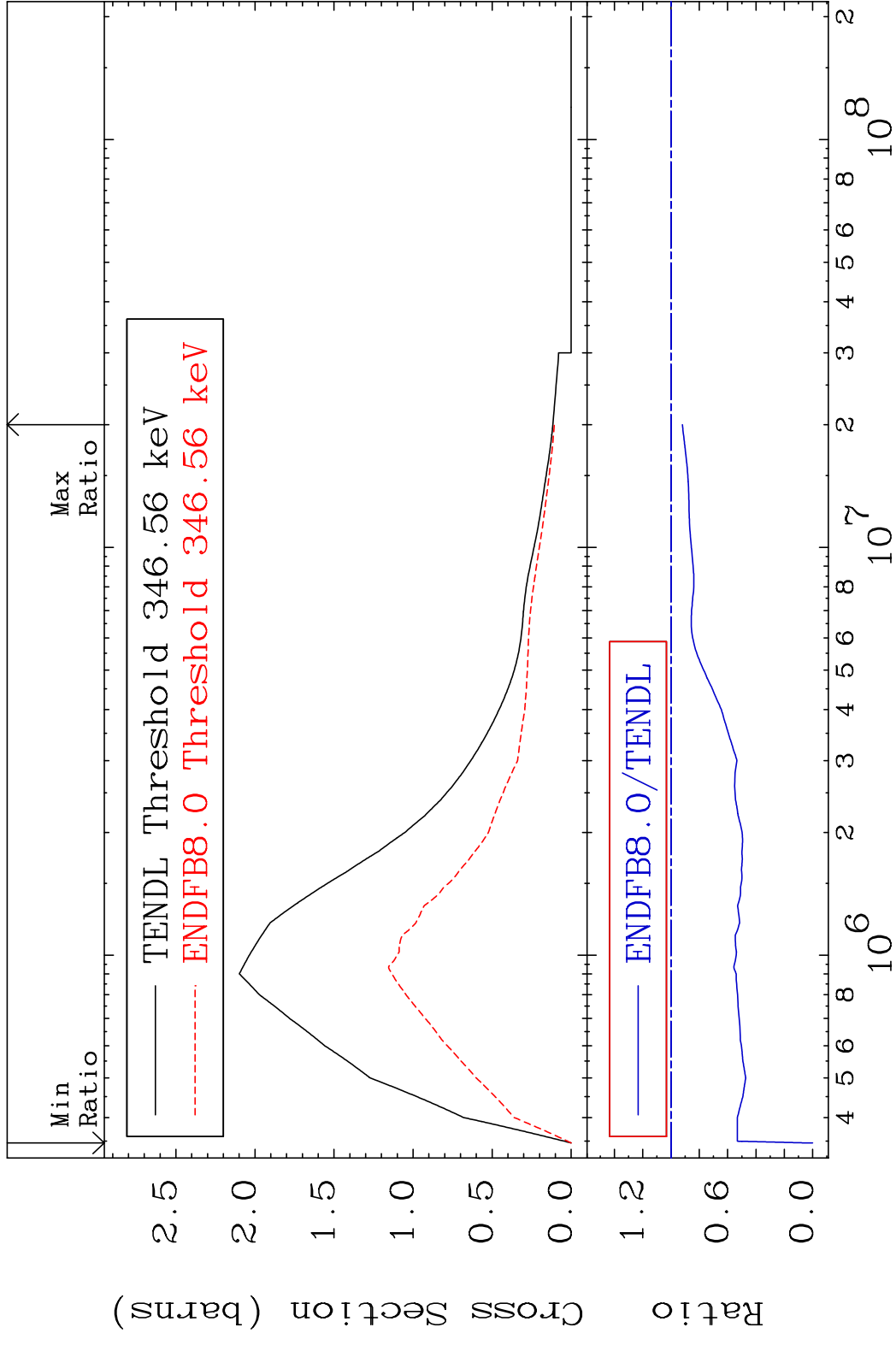
(n,2n) p

64-Gd-152

Cross Section -100.0 To -89.87%

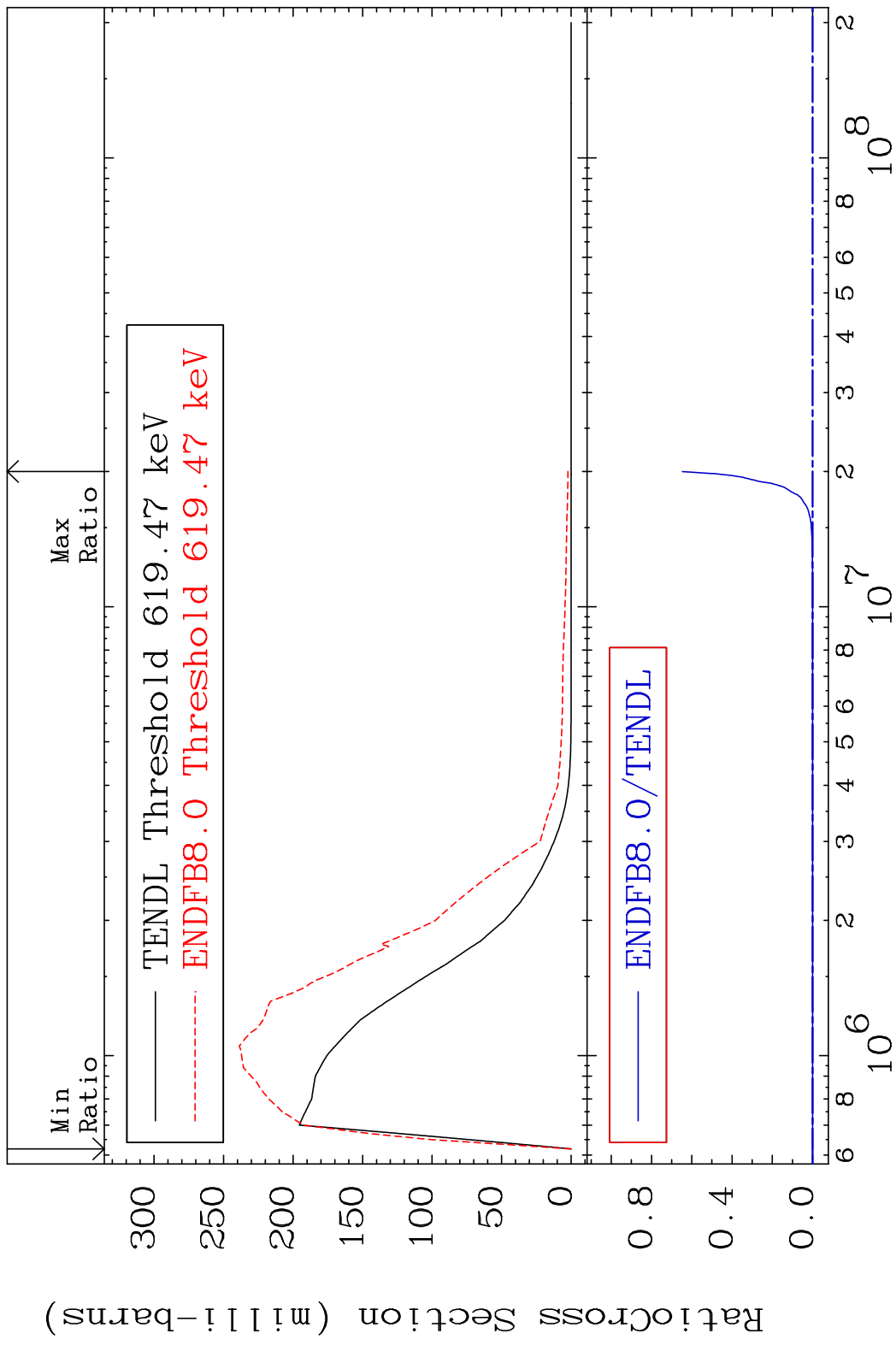


MAT 6425 MT= 51 (n, n') Level 64-Gd-152
 Cross Section -100.0 To -7.992%

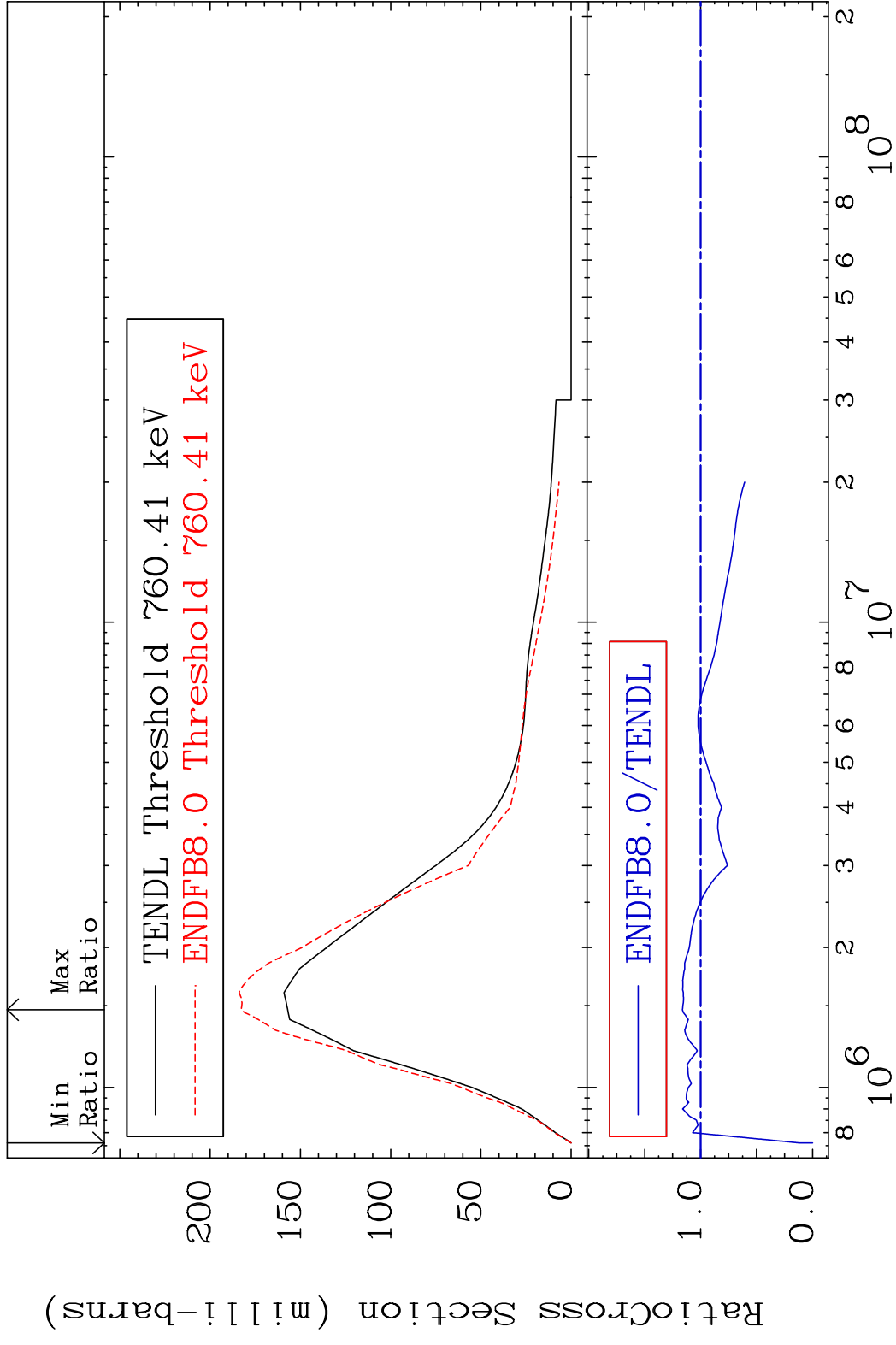


10 Incident Energy (eV) 64-Gd-152

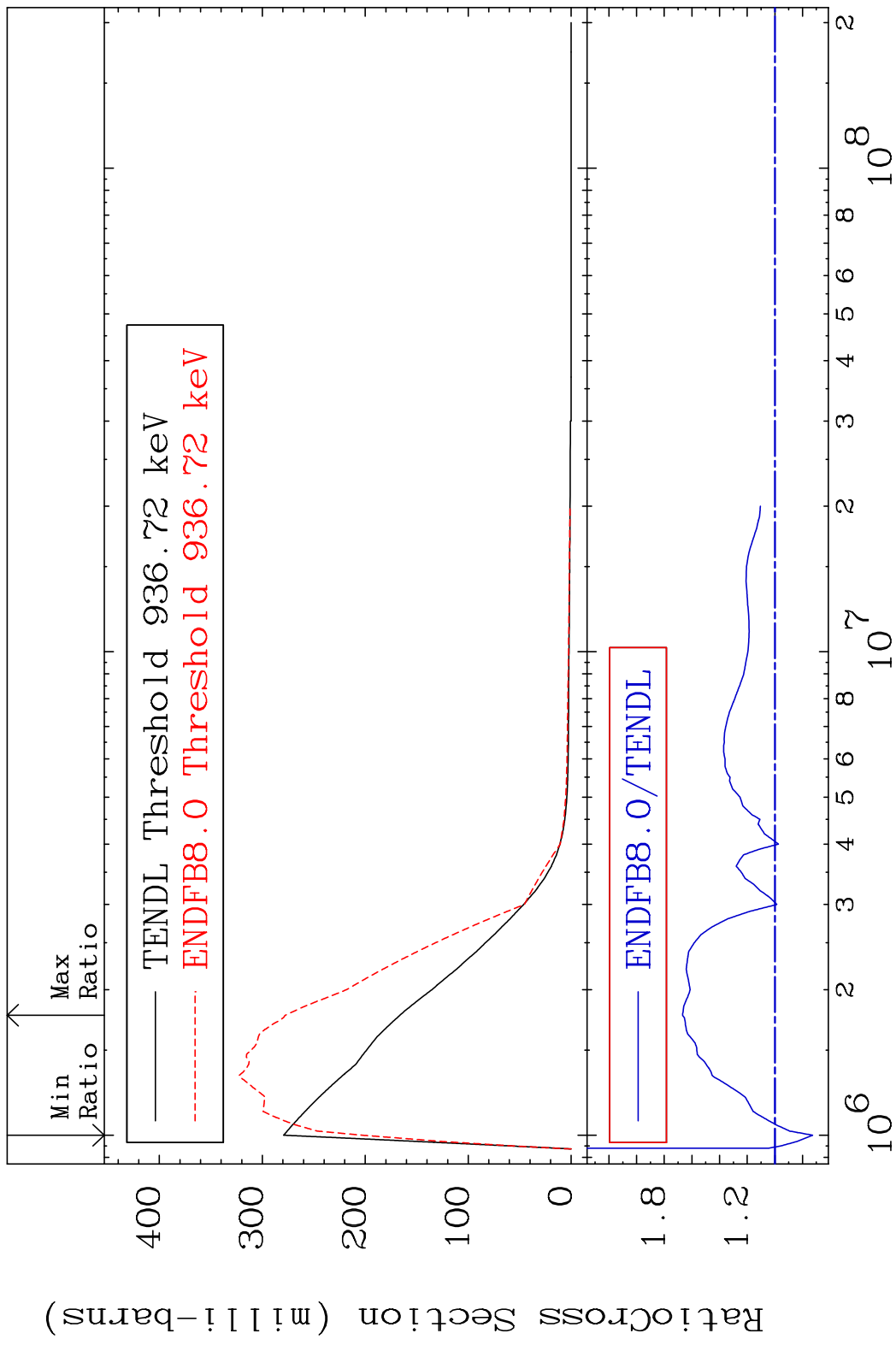
MAT 6425 MT= 52 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 9999. %



MAT 6425 MT= 53 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 16.36 %

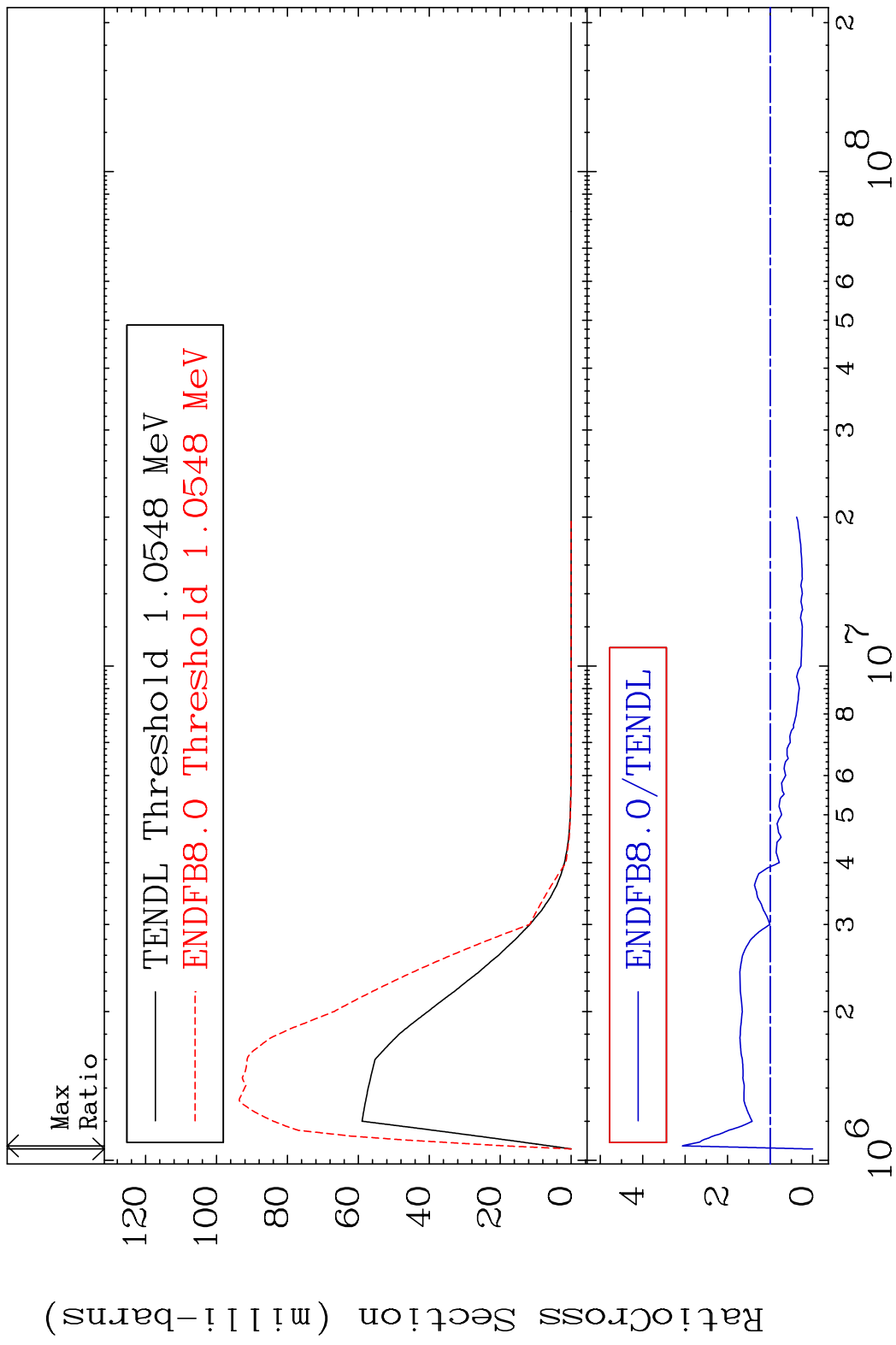


MAT 6425 MT= 54 (n,n') Level 64-Gd-152
 Cross Section -27.25 To 66.91 %



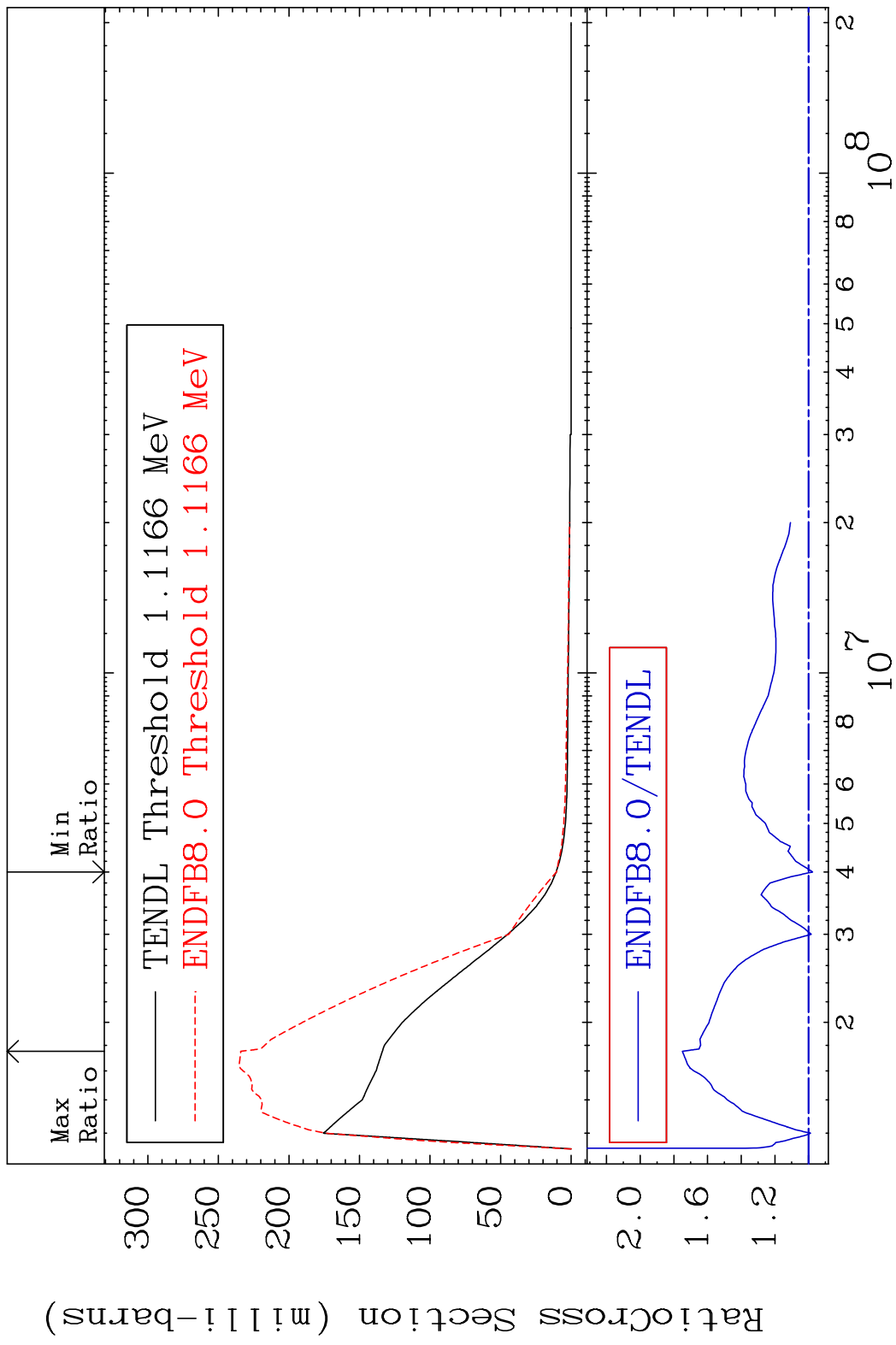
13 Incident Energy (eV) 64-Gd-152

MAT 6425 MT= 55 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 206.6 %

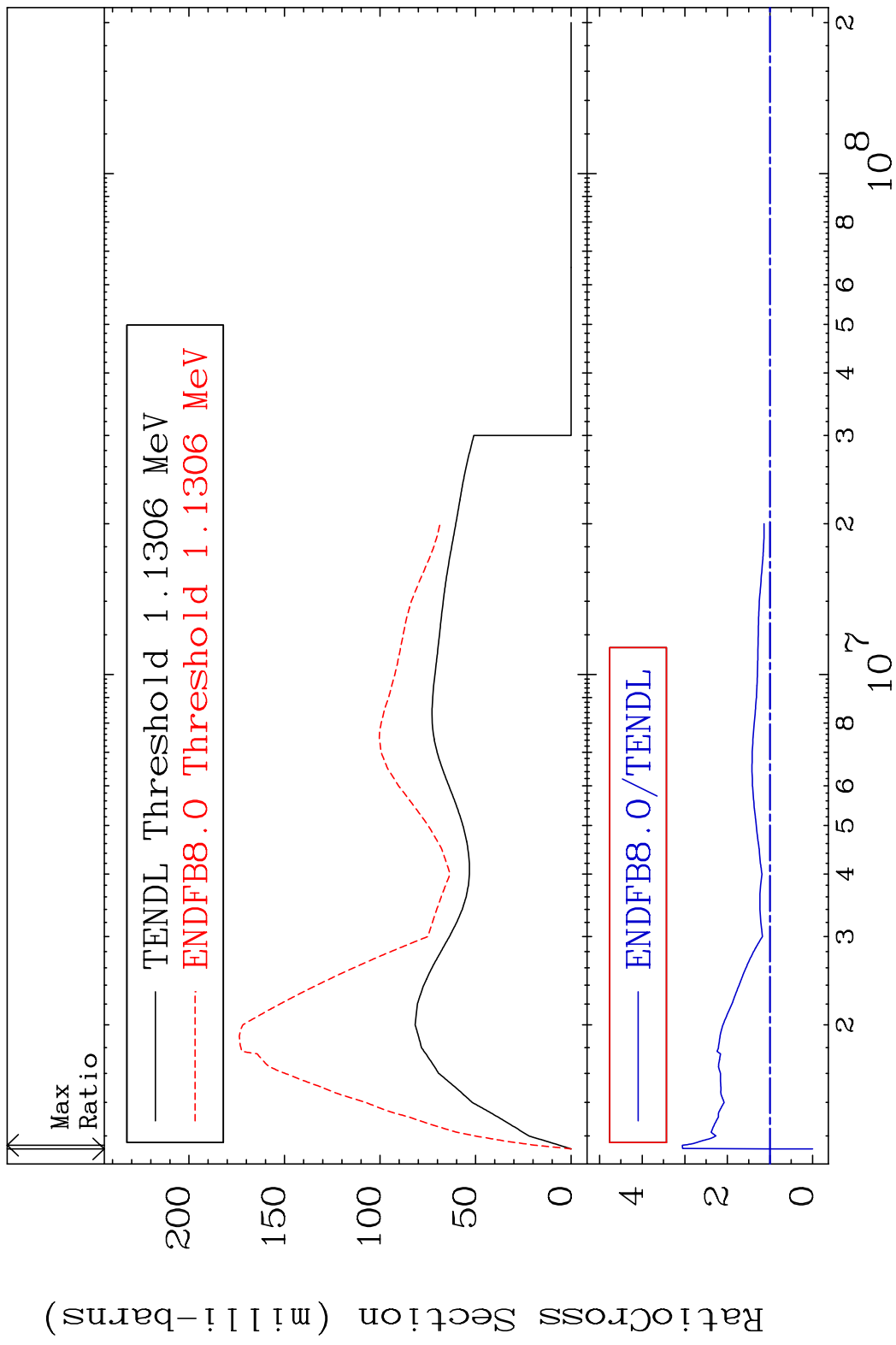


14 Incident Energy (eV) 64-Gd-152

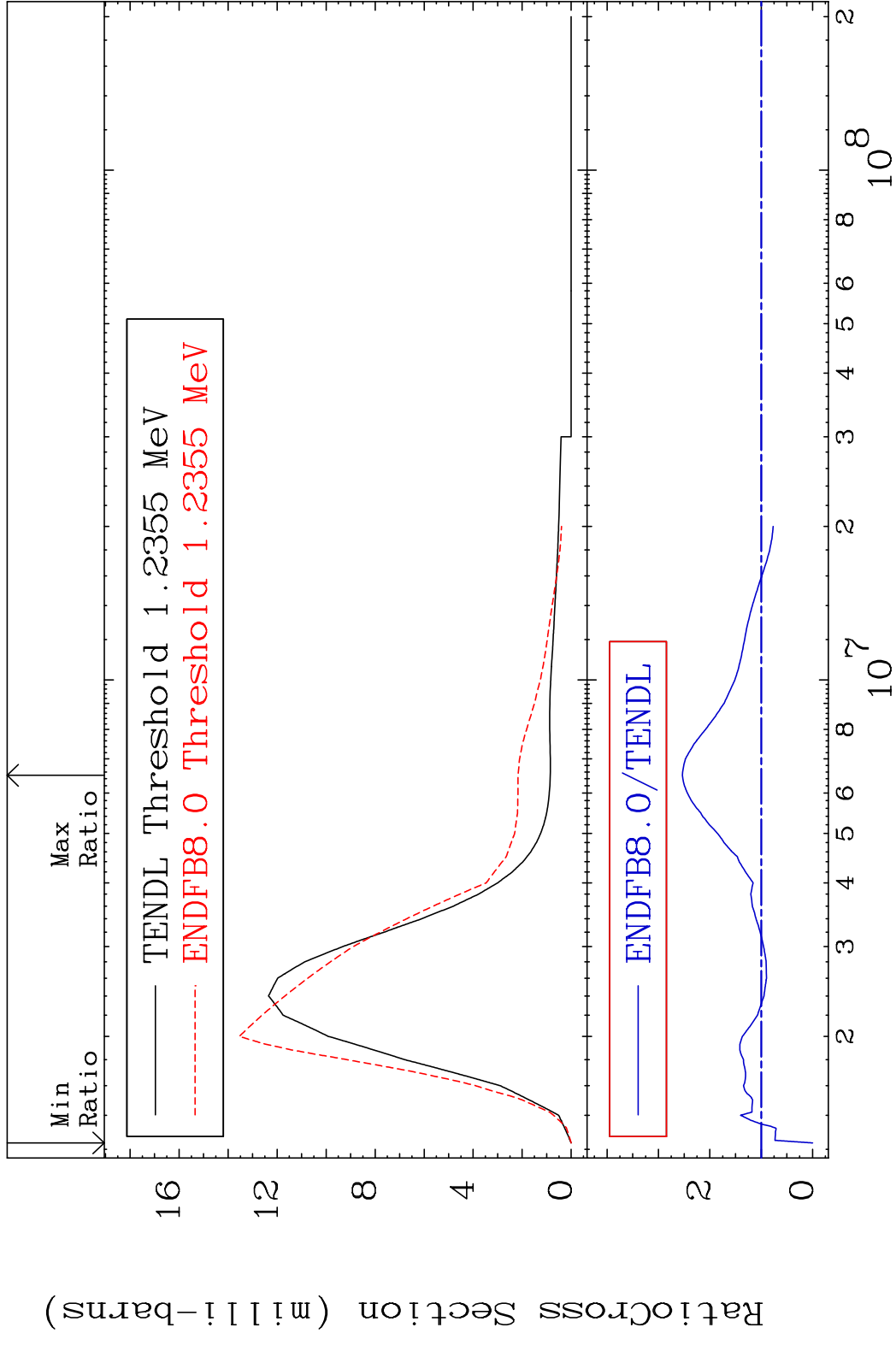
MAT 6425 MT= 56 (n,n') Level 64-Gd-152
 Cross Section -2.392 To 74.96 %



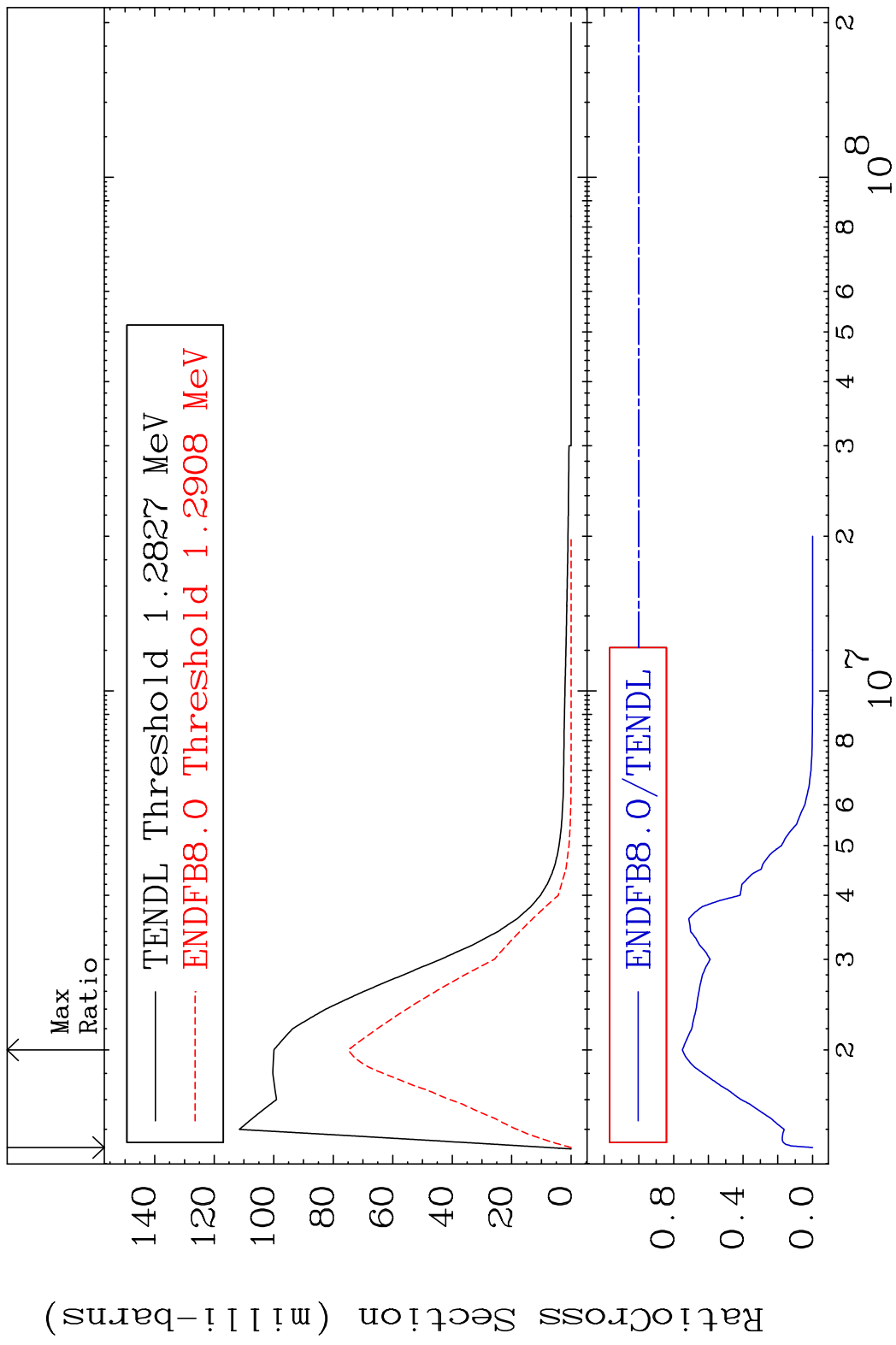
MAT 6425 MT= 57 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 205.7 %



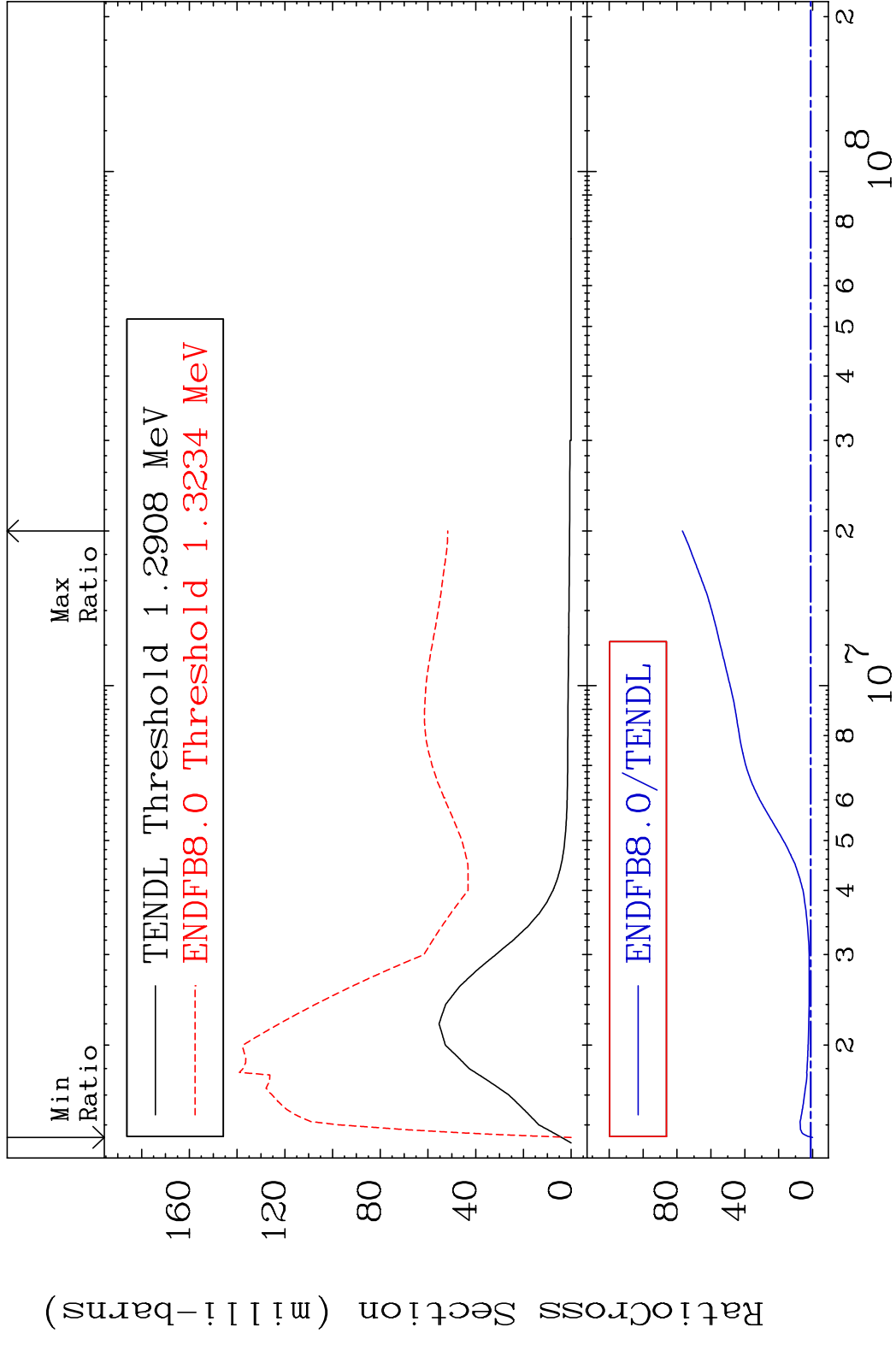
MAT 6425 MT= 58 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 153.5 %



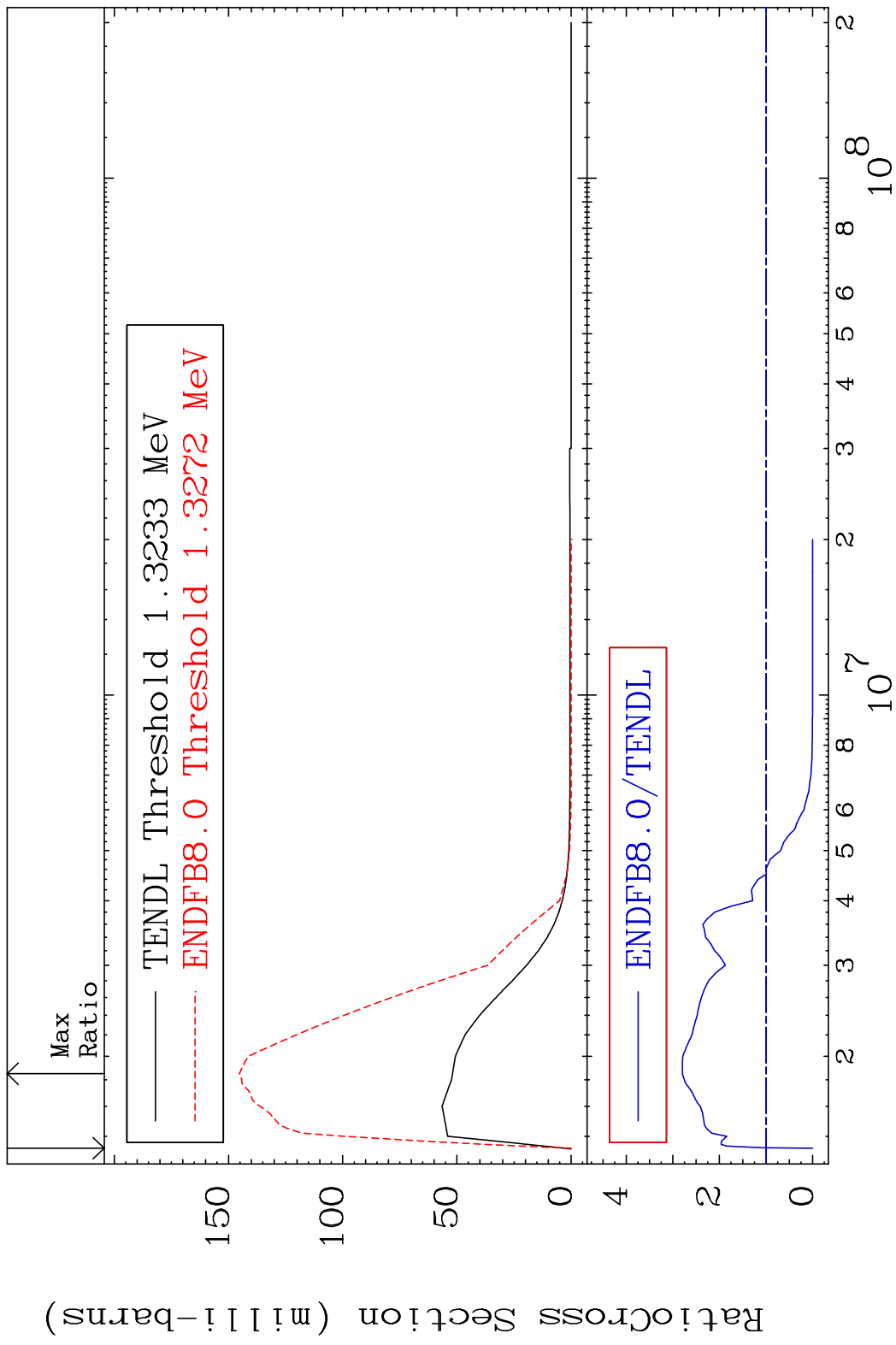
MAT 6425 MT= 59 (n, n') Level 64-Gd-152
 Cross Section -100.0 To -25.03%



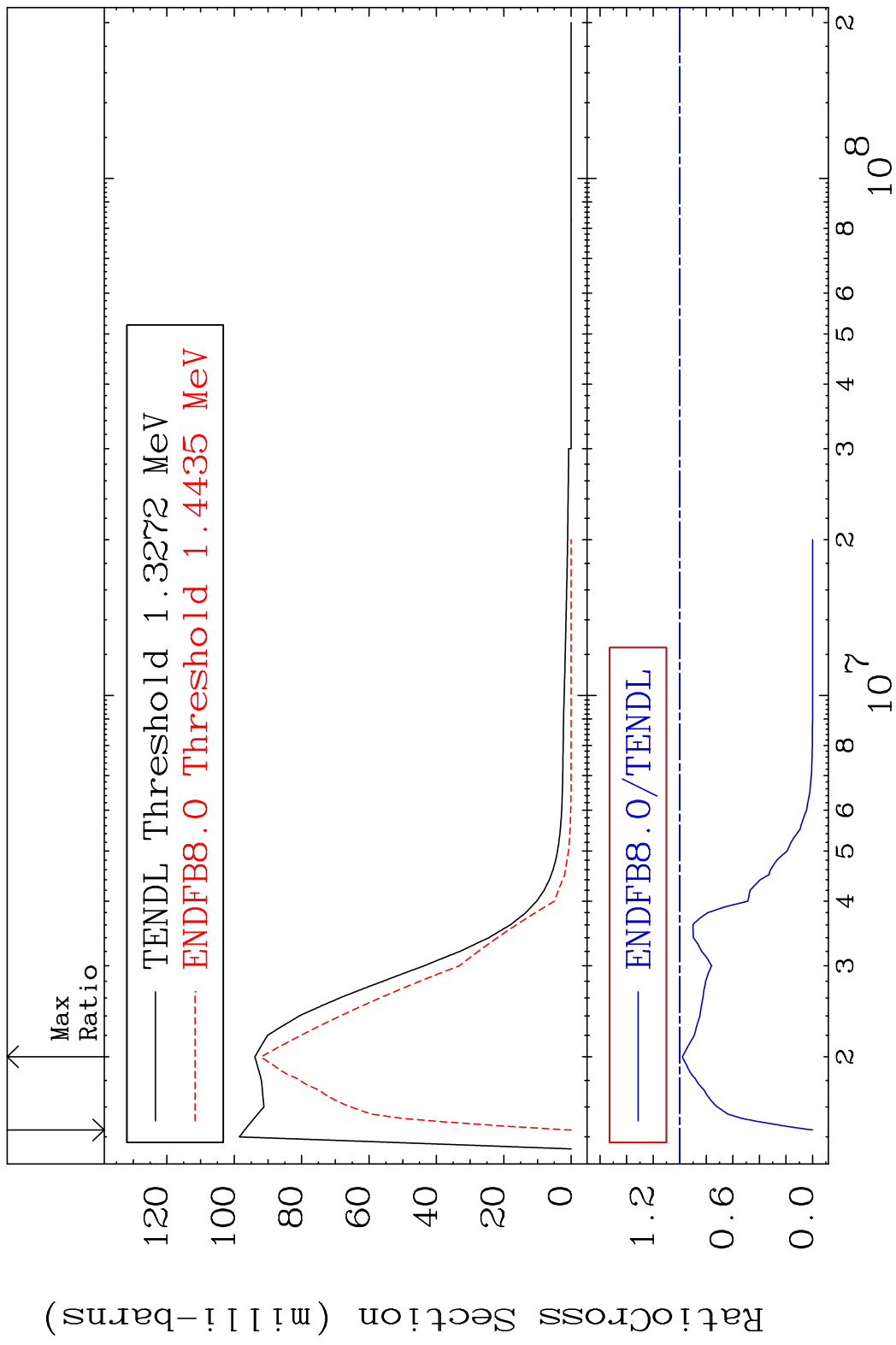
MAT 6425 MT= 60 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 7586. %



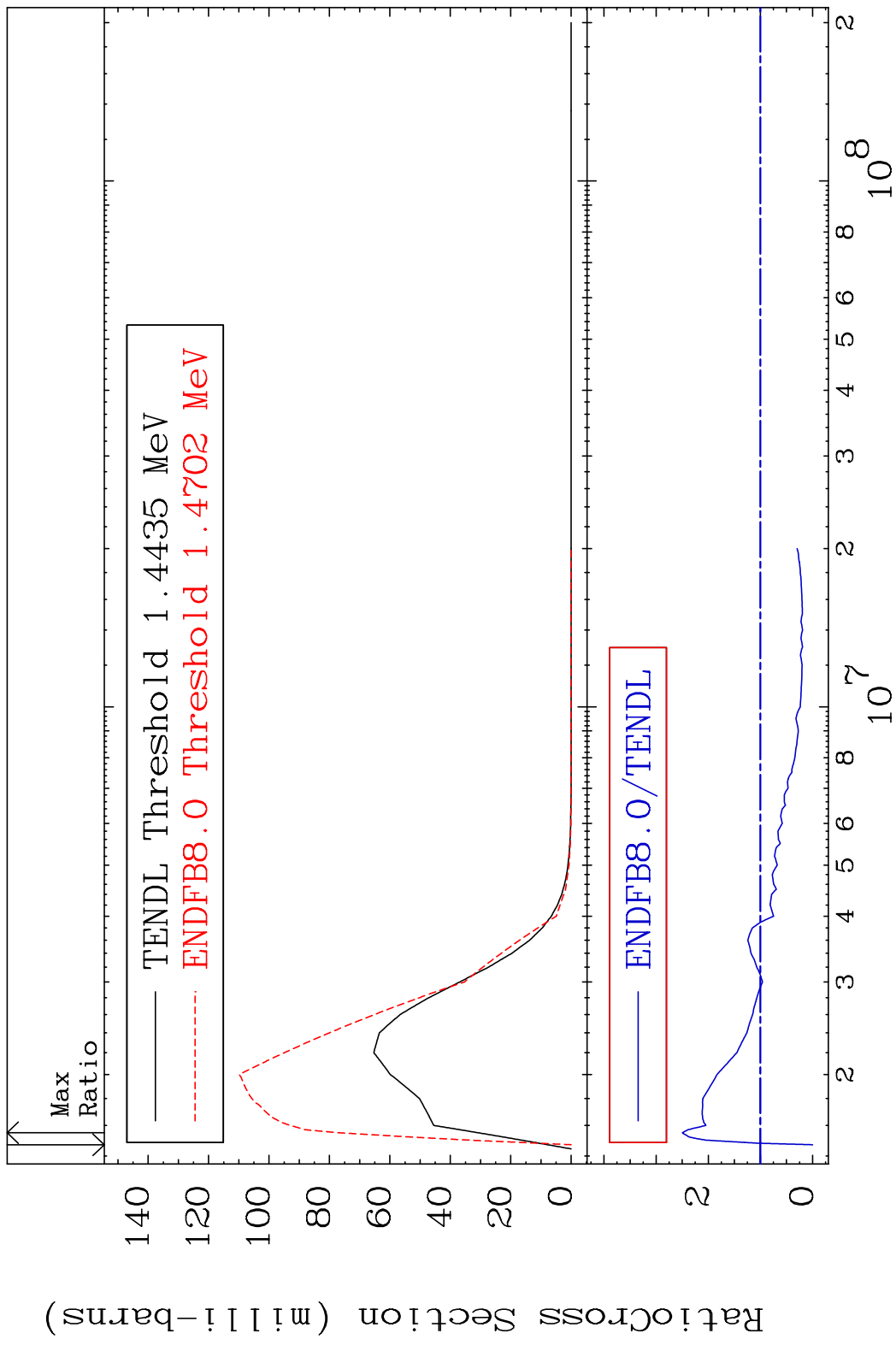
MAT 6425 MT= 61 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 179.6 %



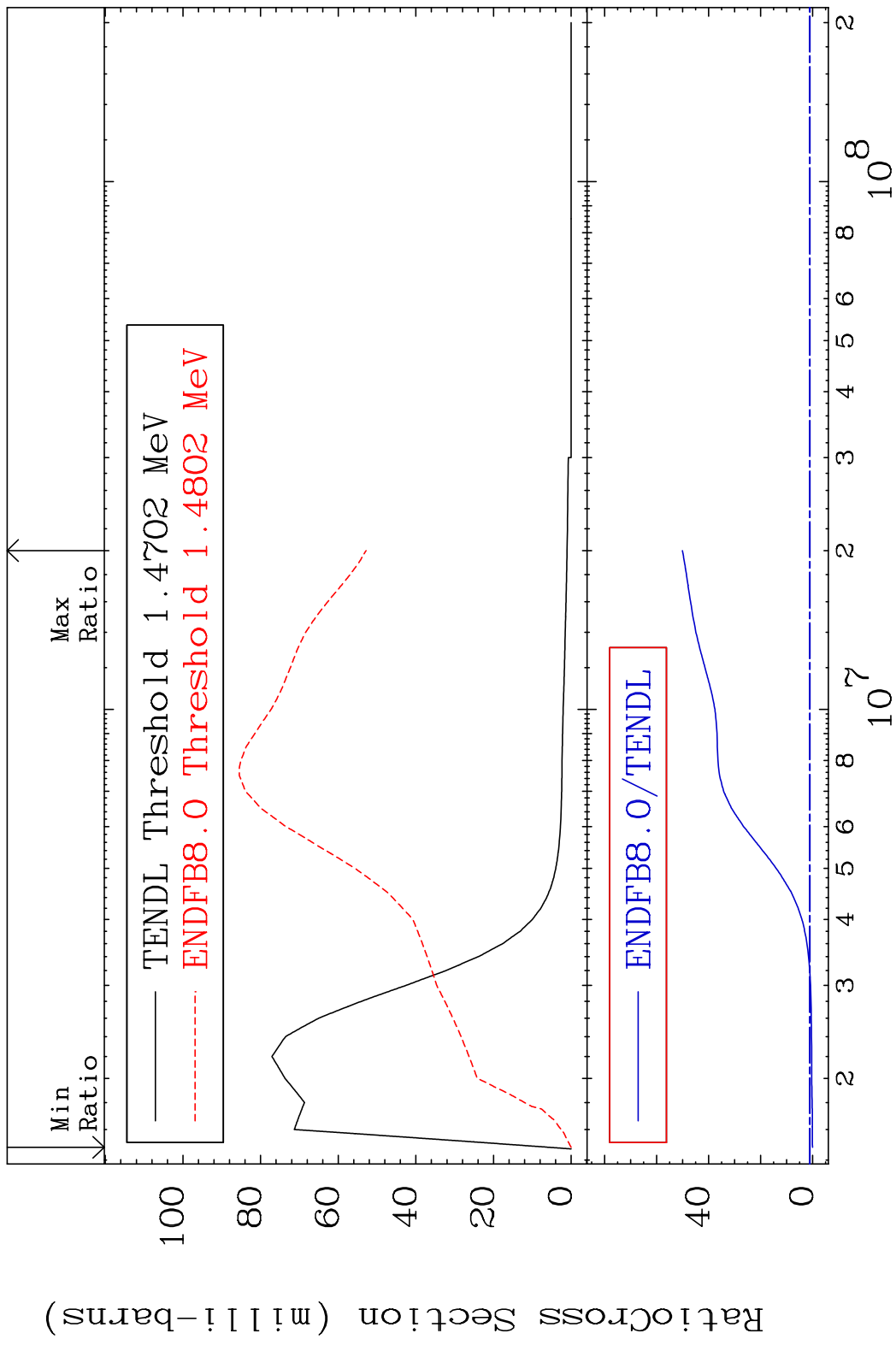
MAT 6425 MT= 62 (n, n') Level 64-Gd-152
 Cross Section -100.0 To -1.967%



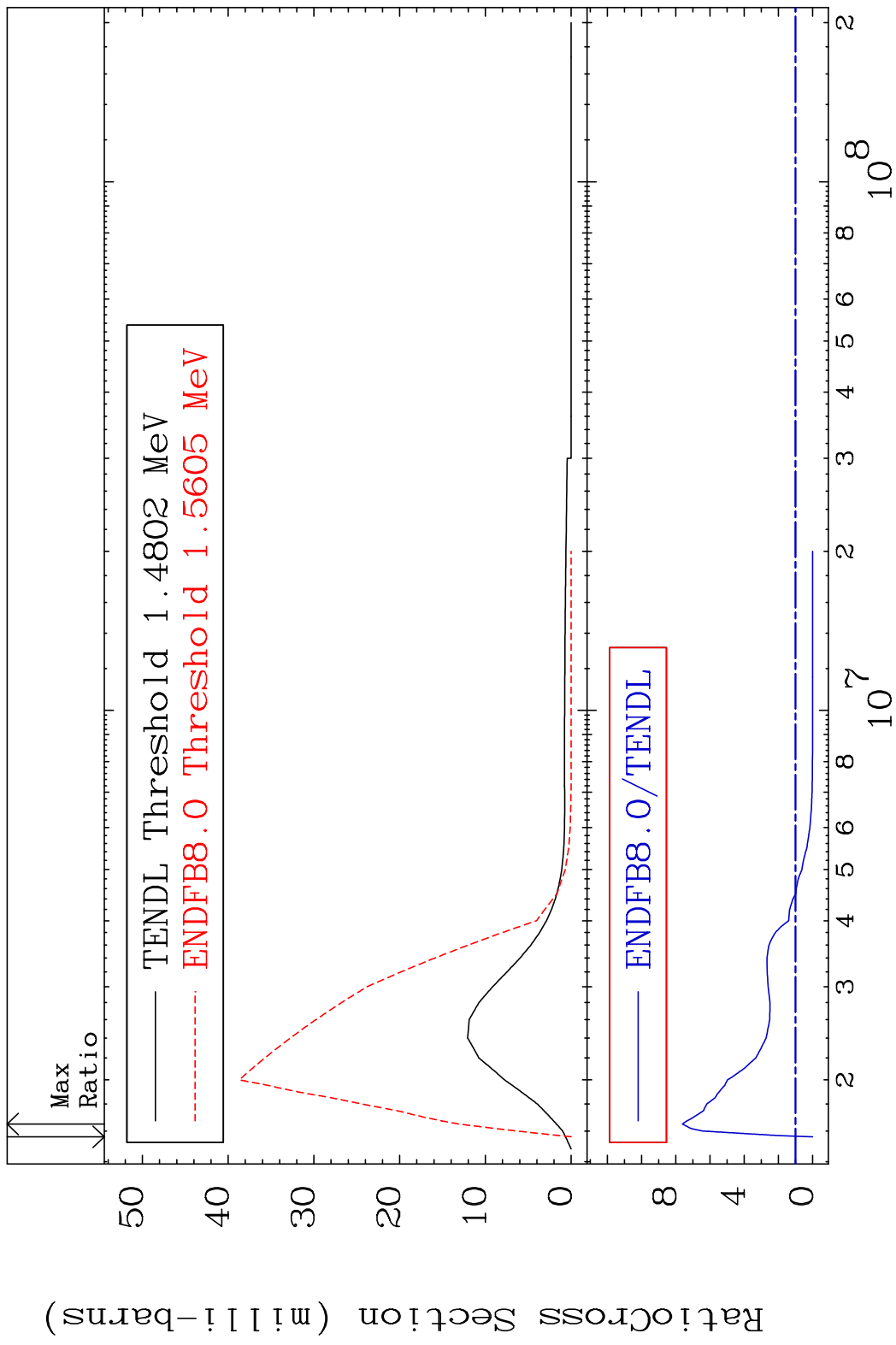
MAT 6425 MT= 63 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 149.7 %



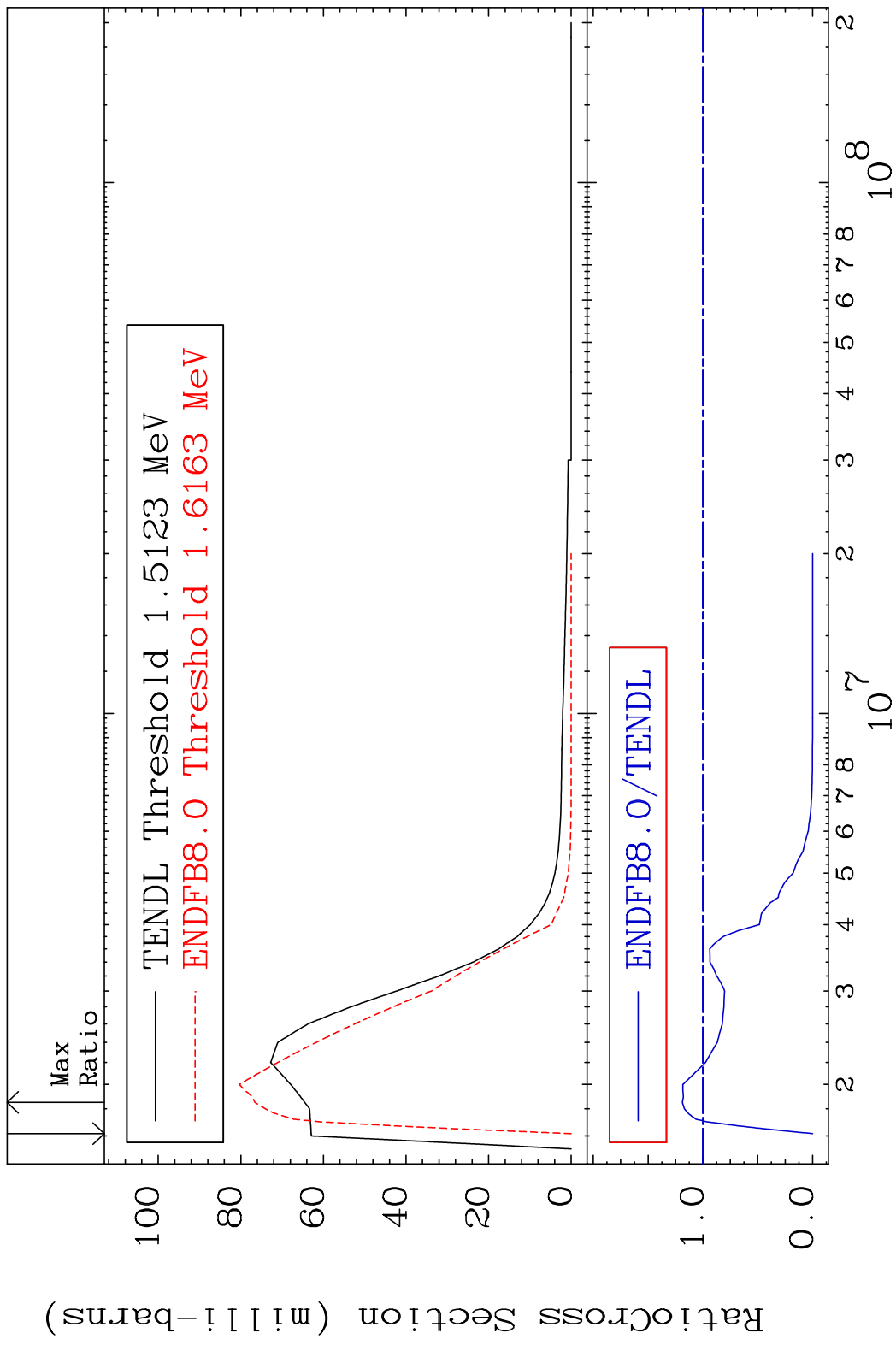
MAT 6425 MT= 64 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 4910. %



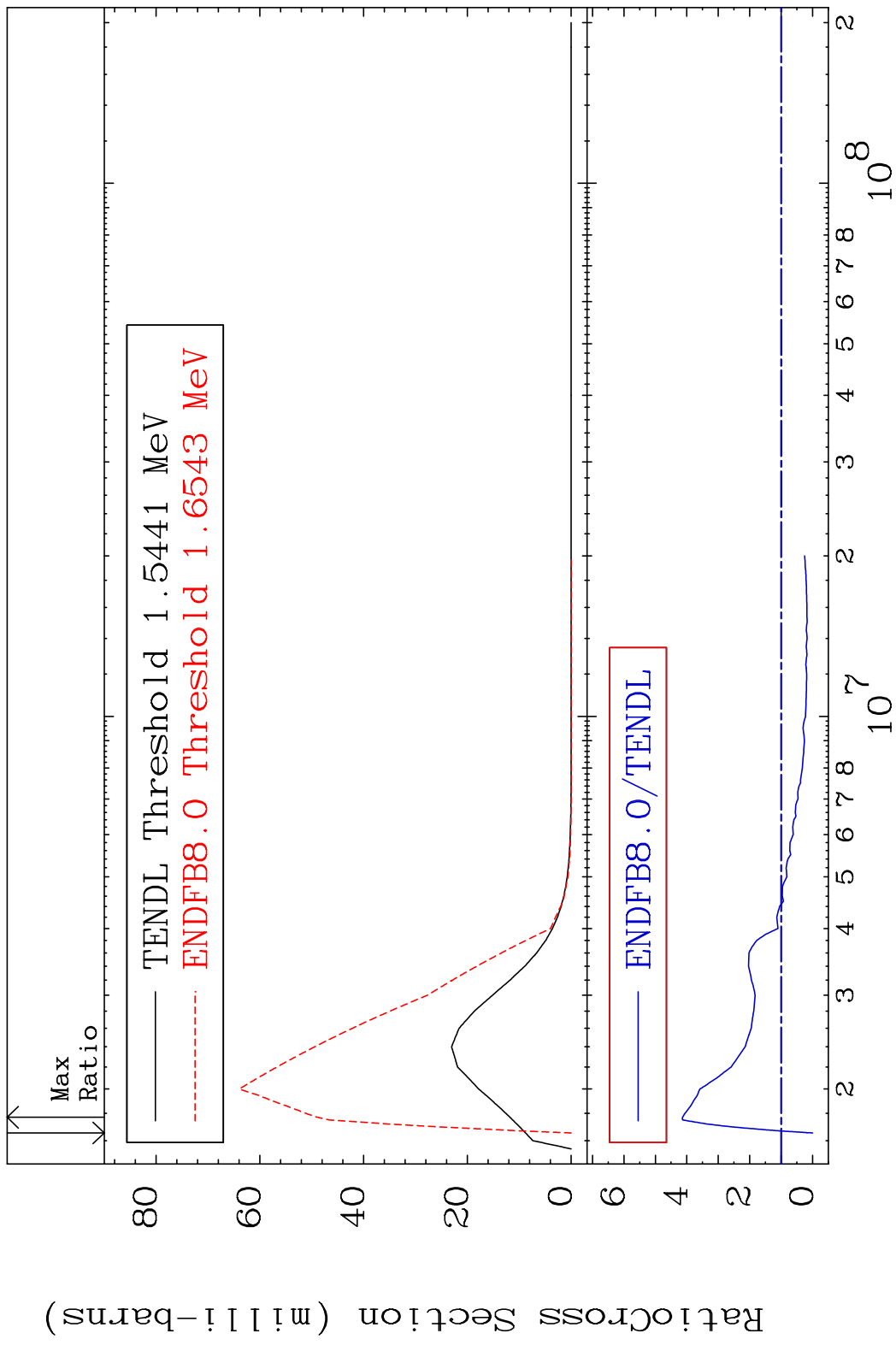
MAT 6425 MT= 65 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 661.5 %



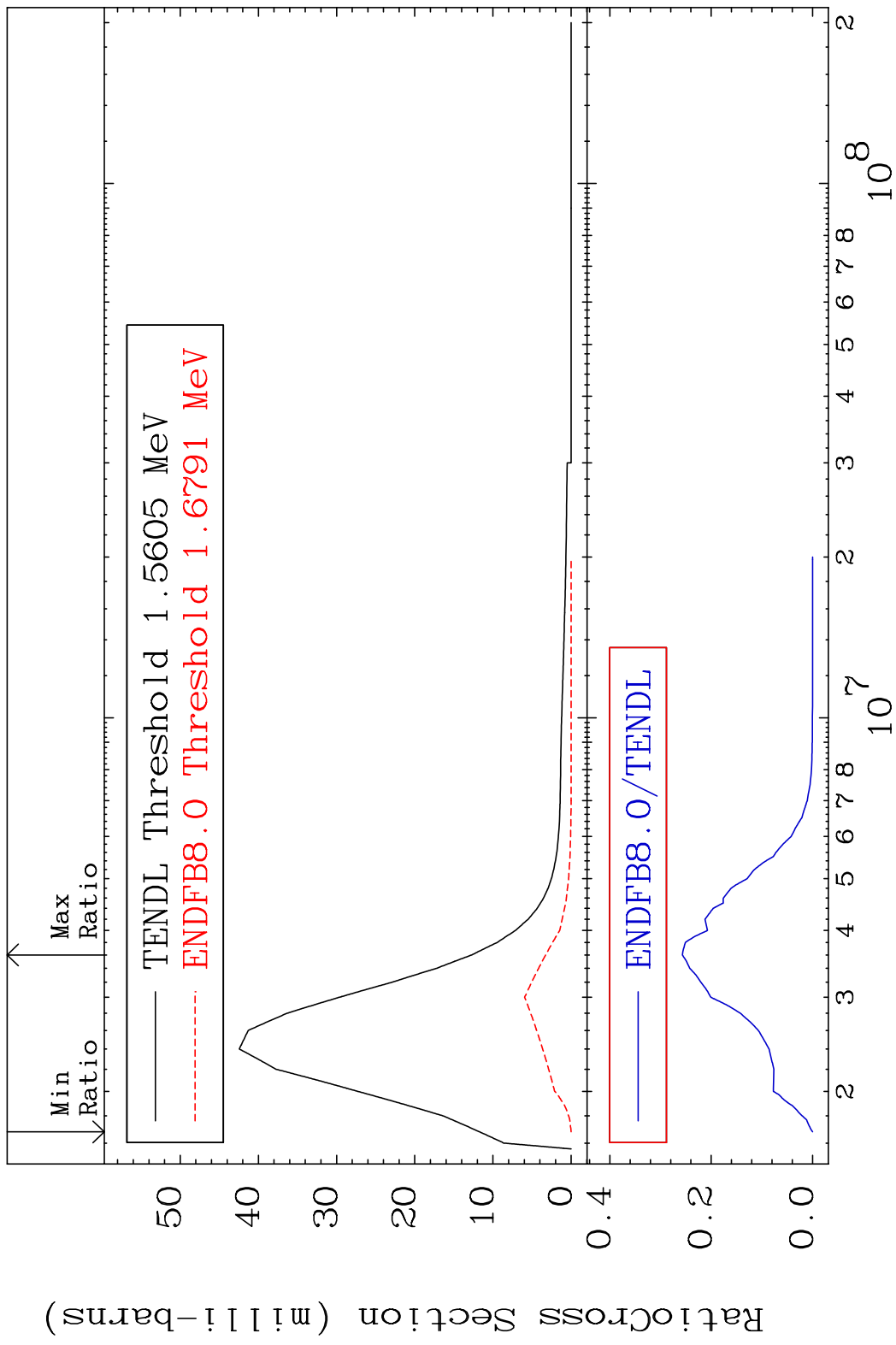
MAT 6425 MT= 66 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 18.75 %



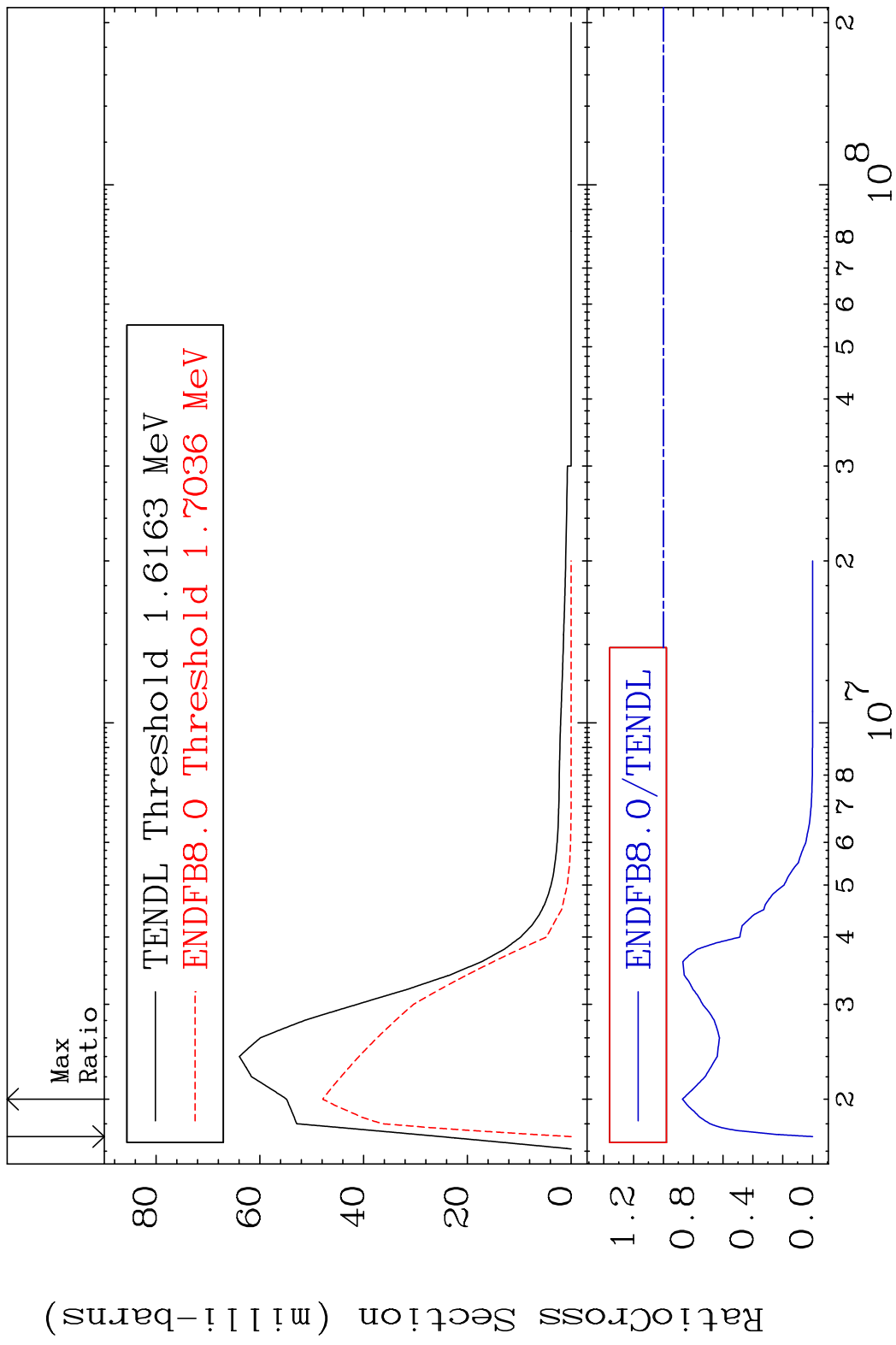
MAT 6425 MT= 67 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 314.2 %



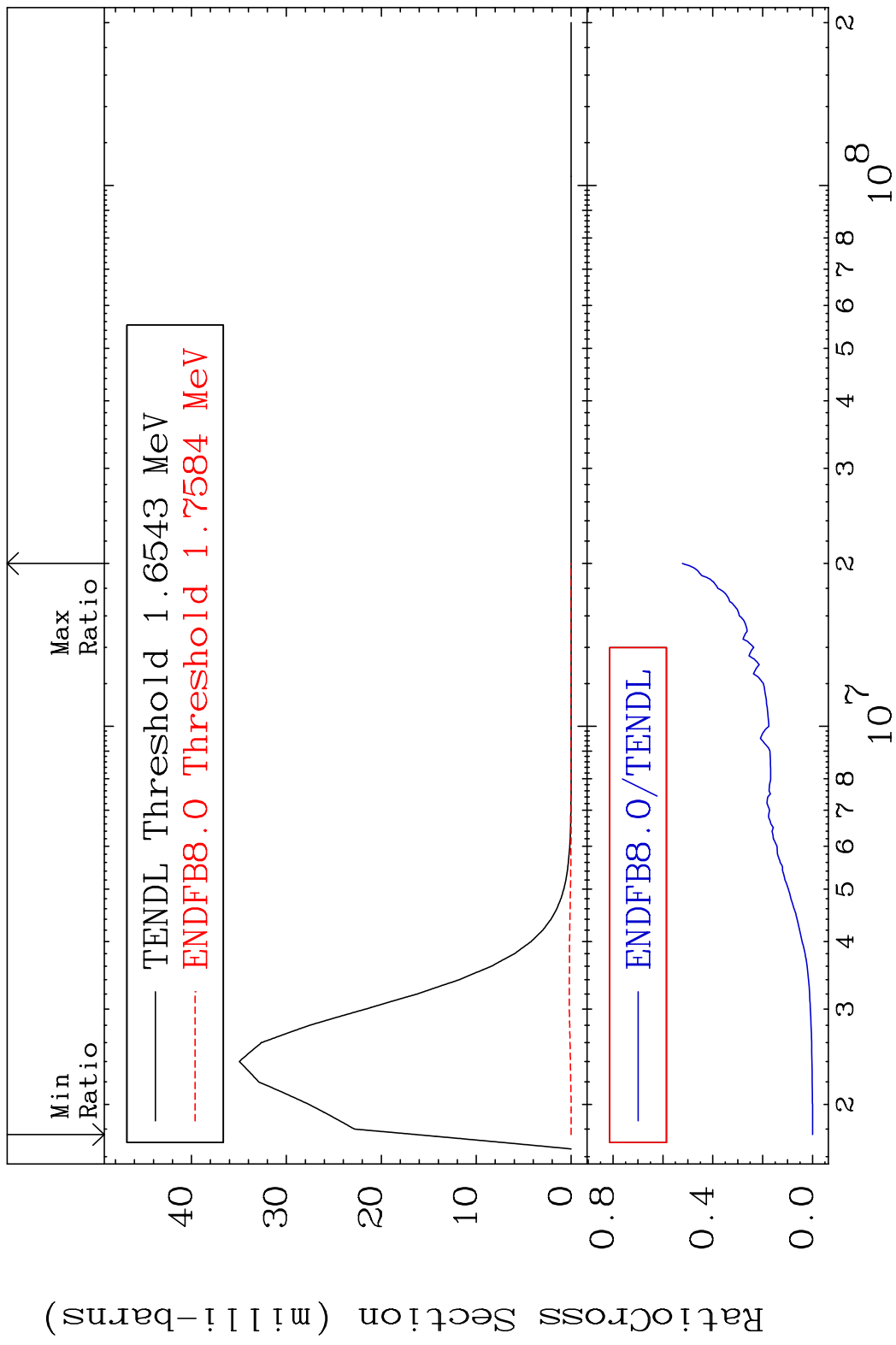
MAT 6425 MT= 68 (n,n') Level 64-Gd-152
 Cross Section -100.0 To -74.31%



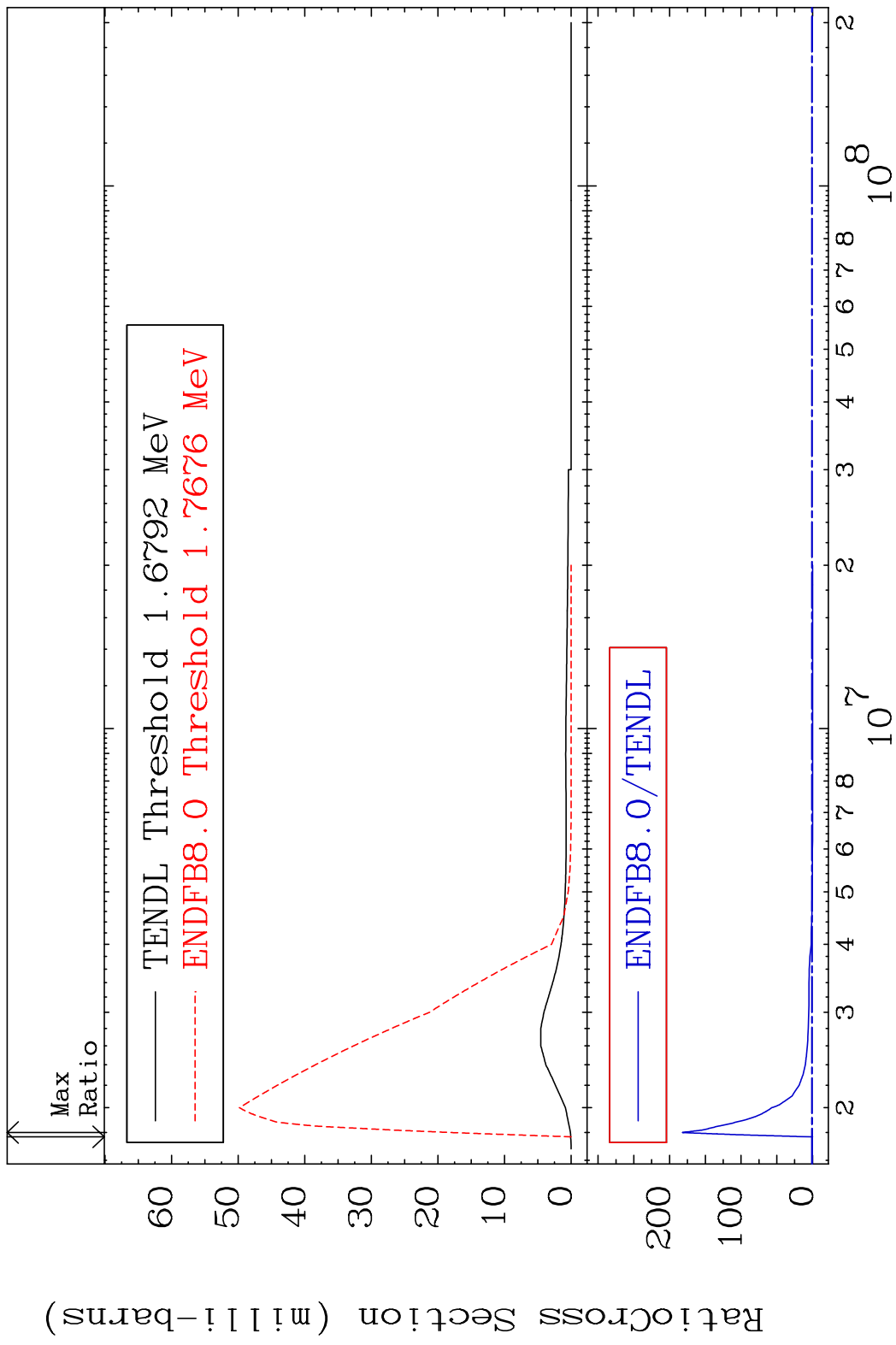
MAT 6425 MT= 69 (n,n') Level 64-Gd-152
 Cross Section -100.0 To -12.70%



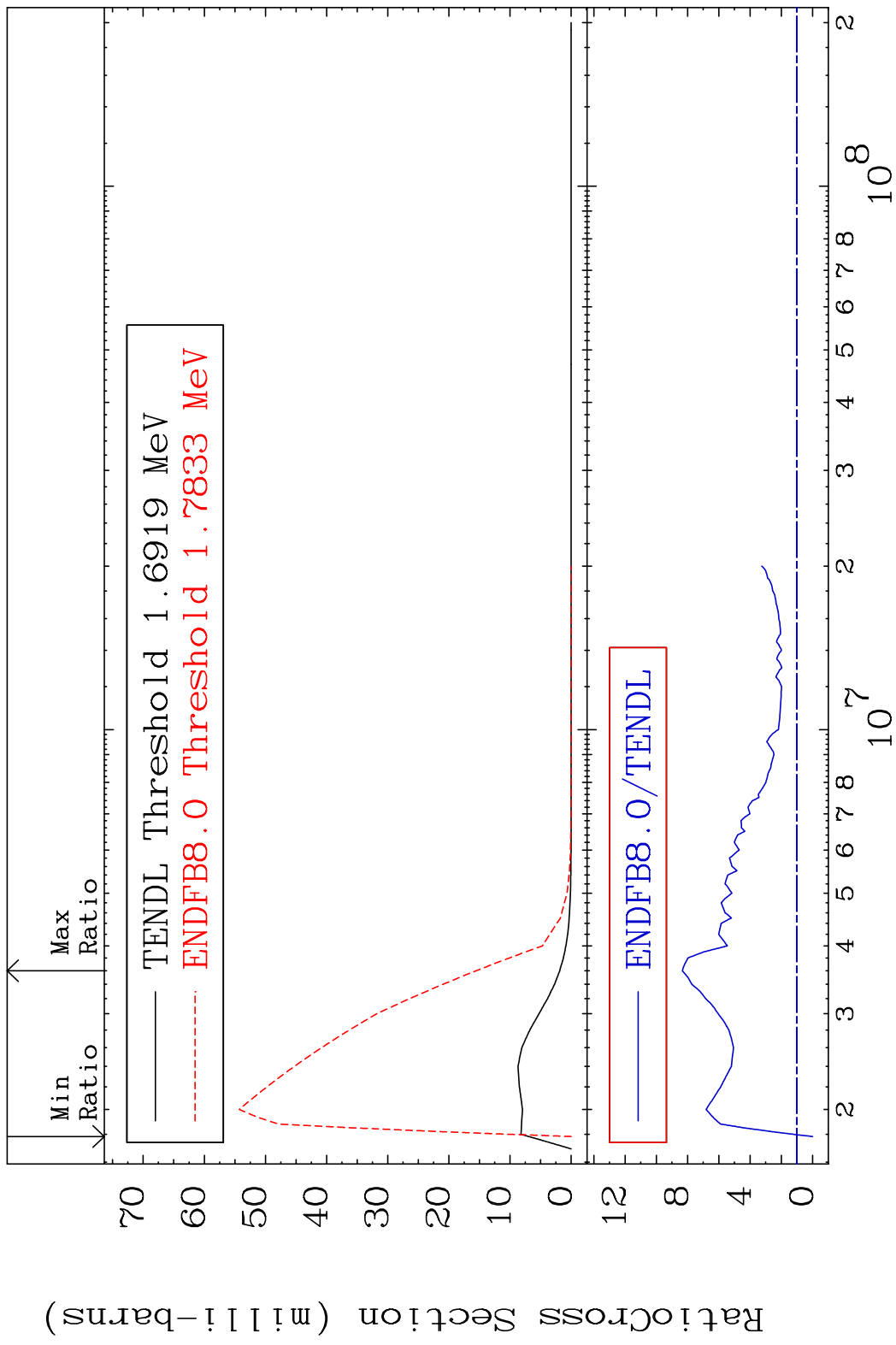
MAT 6425 MT= 70 (n, n') Level 64-Gd-152
 Cross Section -100.0 To -47.79%



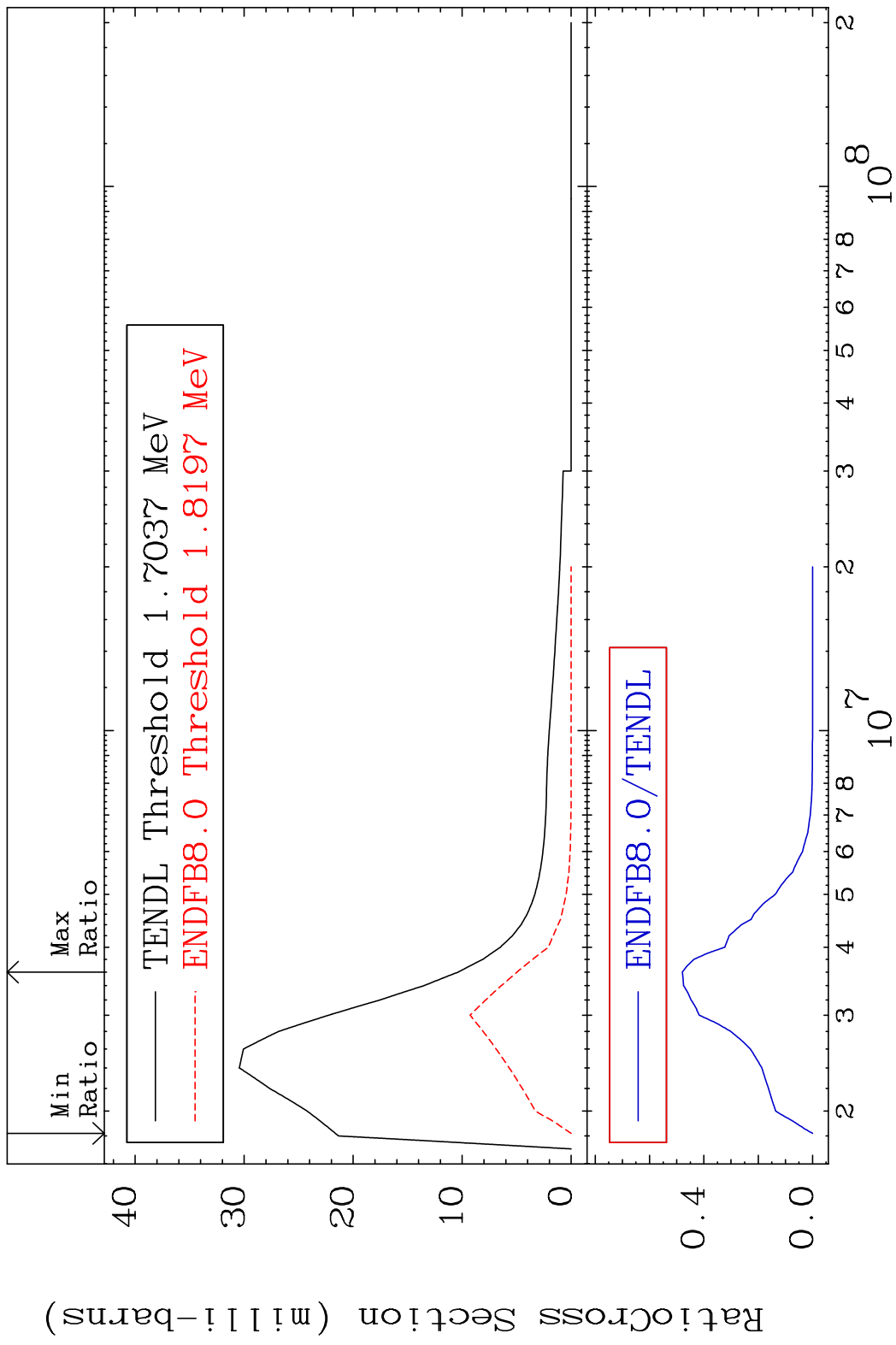
MAT 6425 MT= 71 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 9999. %



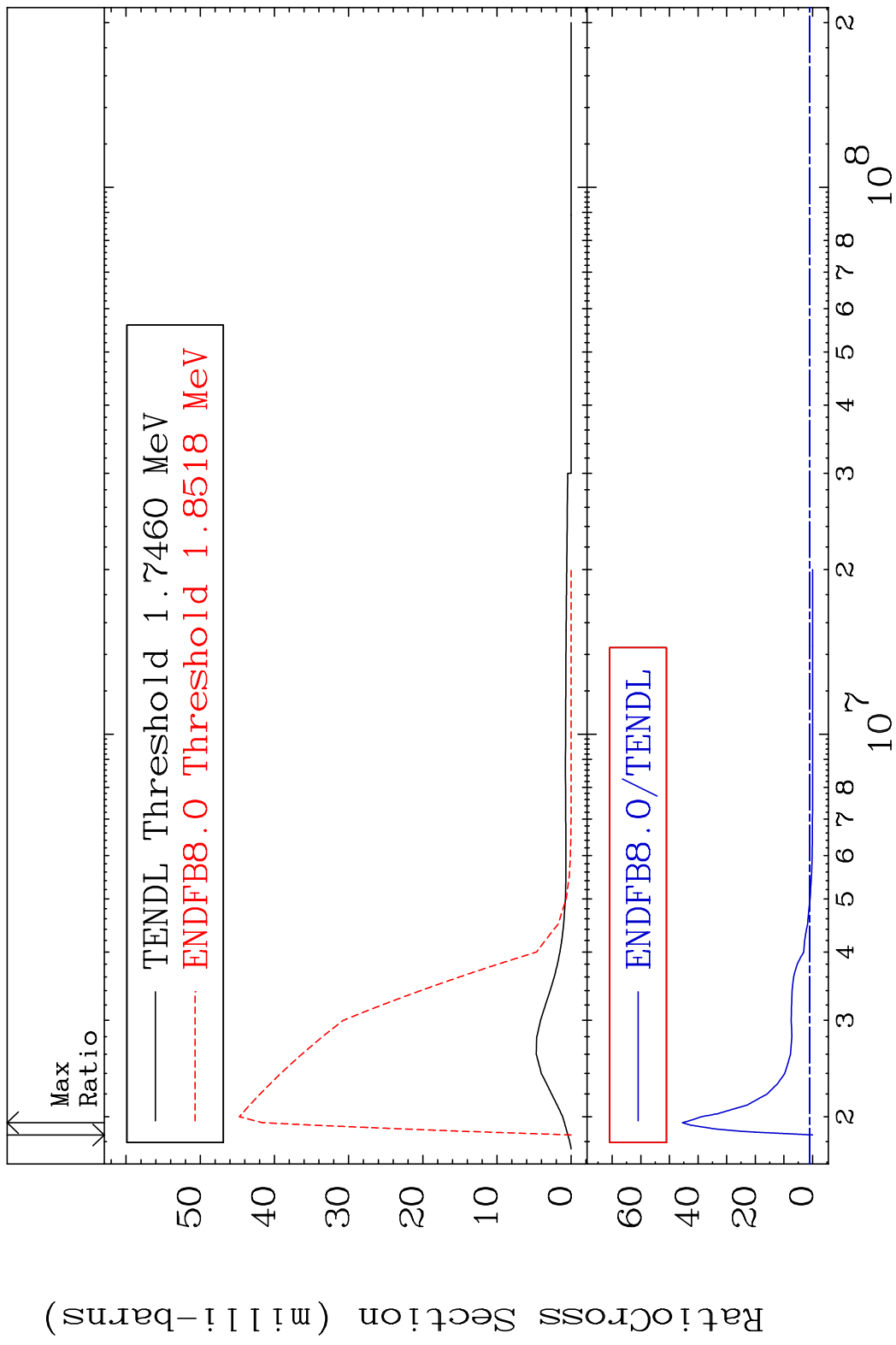
MAT 6425 MT= 72 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 733.3 %



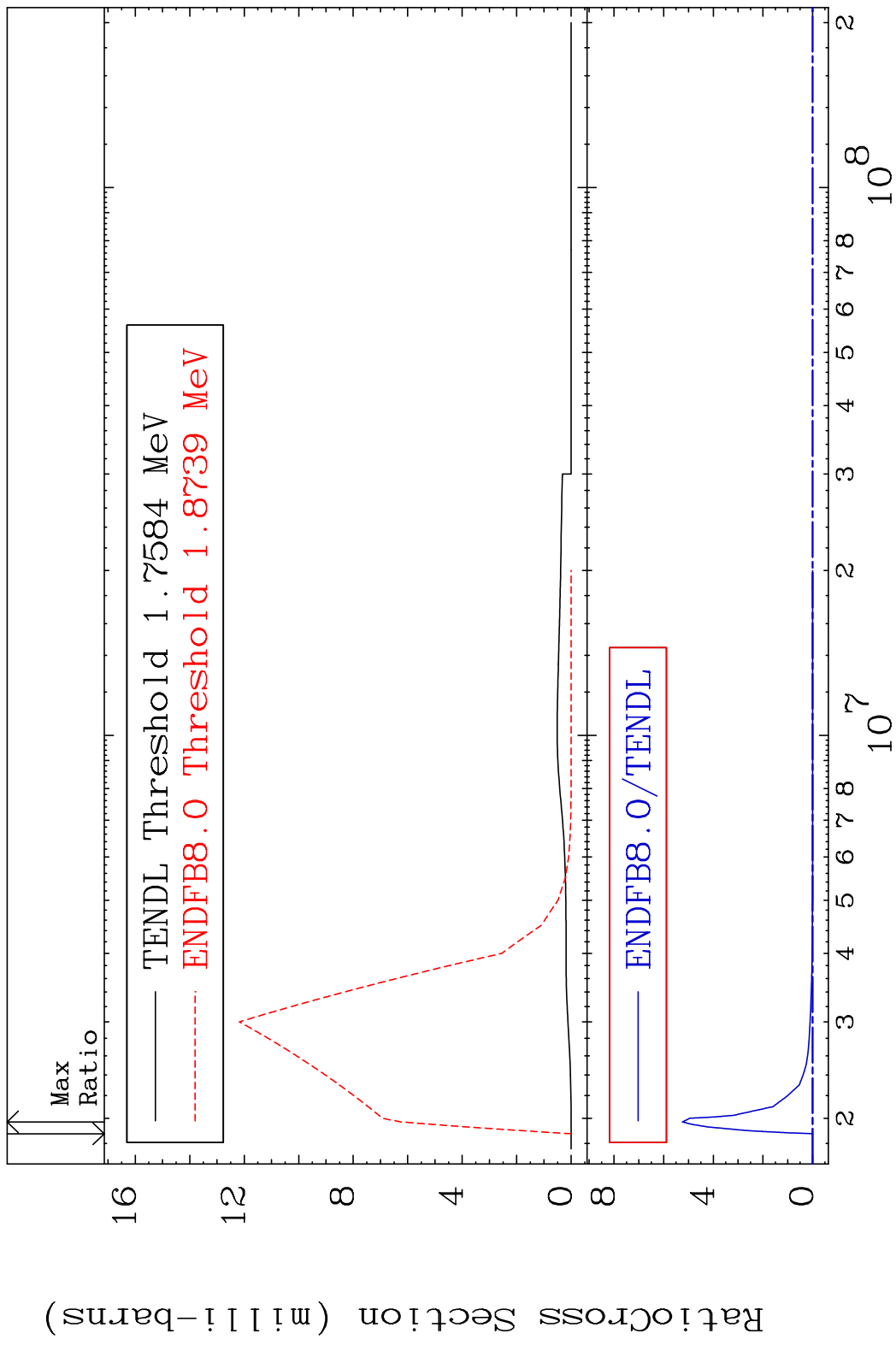
MAT 6425 MT= 73 (n, n') Level 64-Gd-152
 Cross Section -100.0 To -52.07%



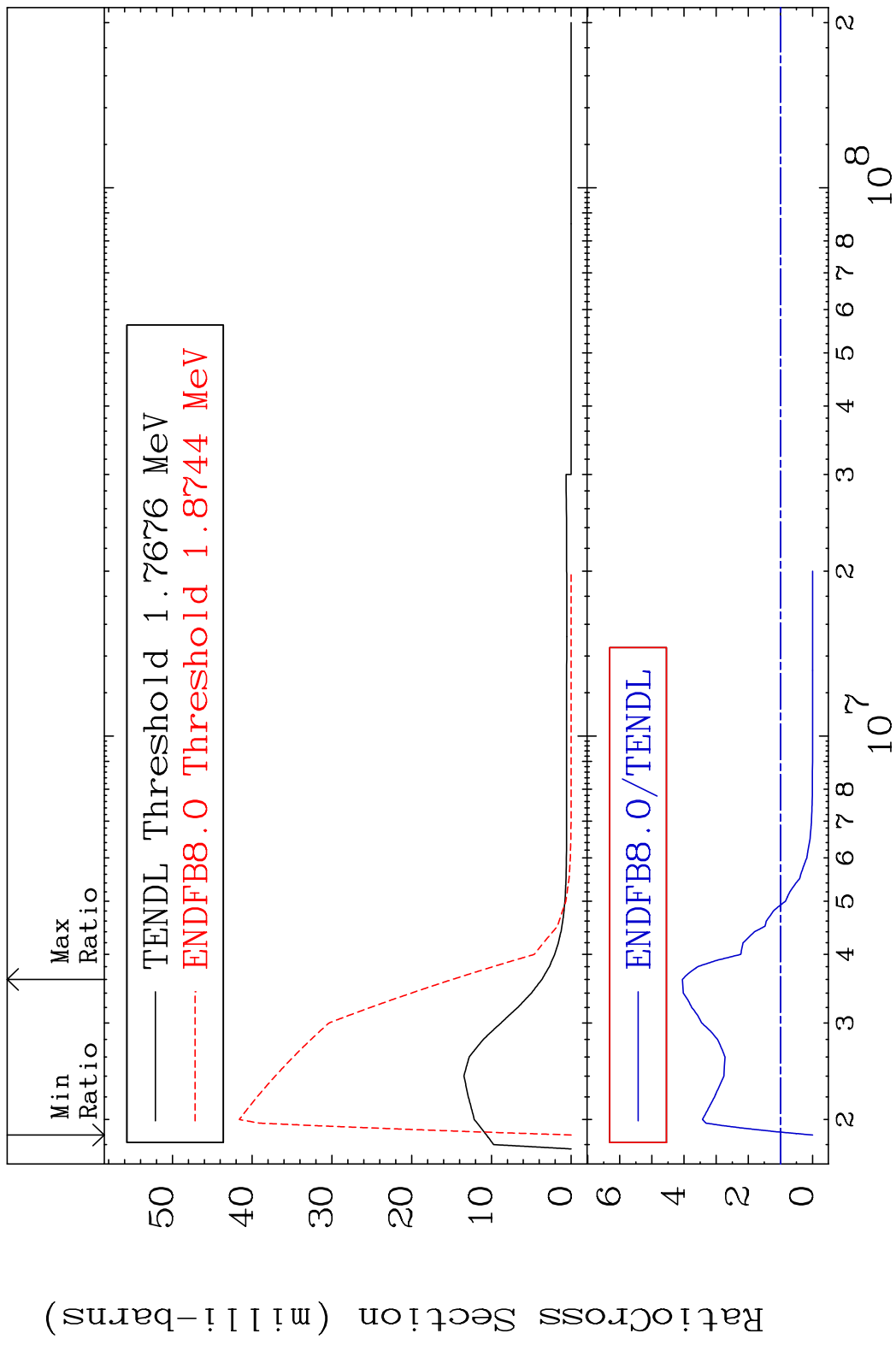
MAT 6425 MT= 74 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 4449. %



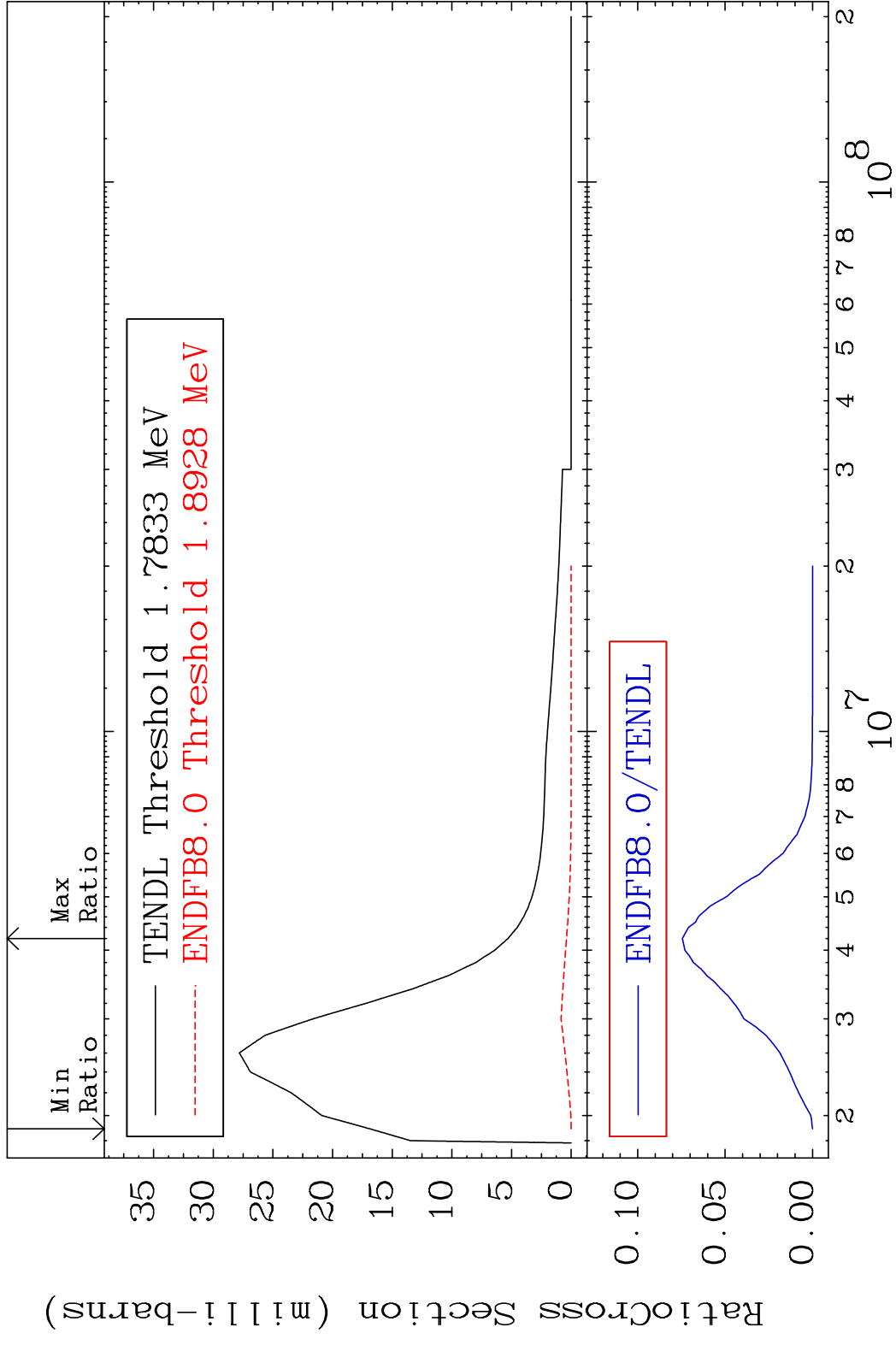
MAT 6425 MT= 75 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 9999. %



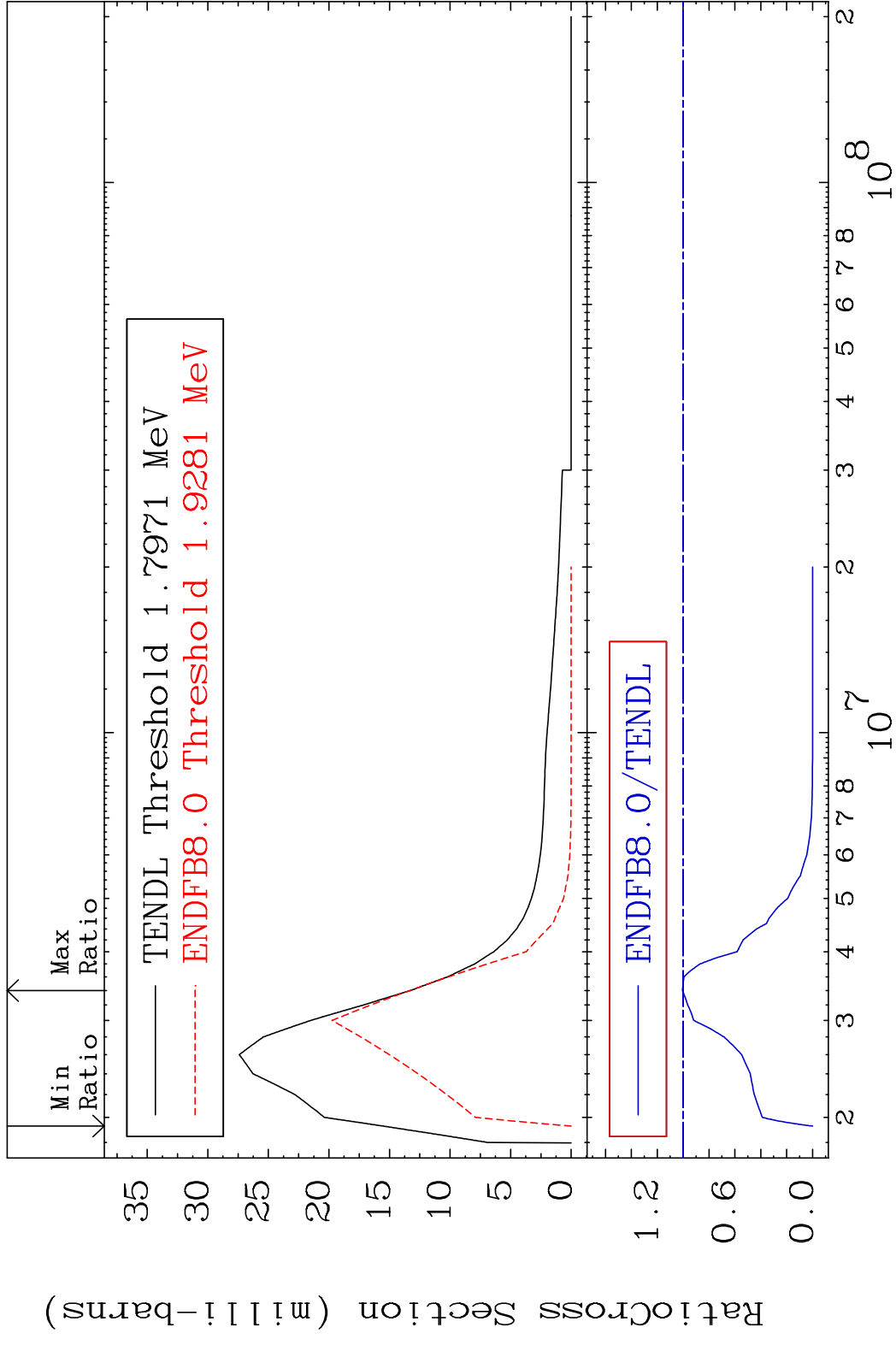
MAT 6425 MT= 76 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 305.2 %



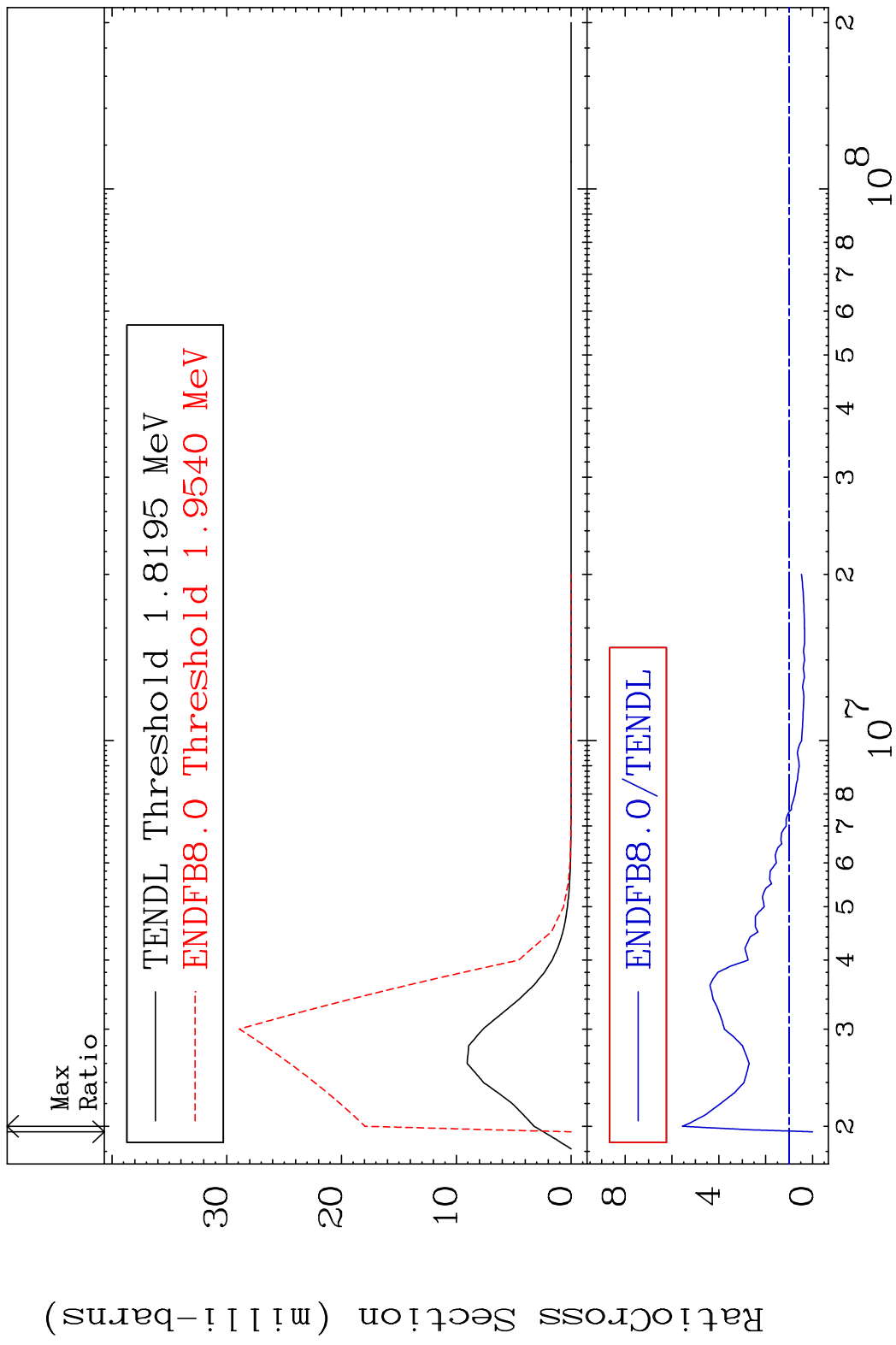
MAT 6425 MT= 77 (n,n') Level 64-Gd-152
 Cross Section -100.0 To -92.55%



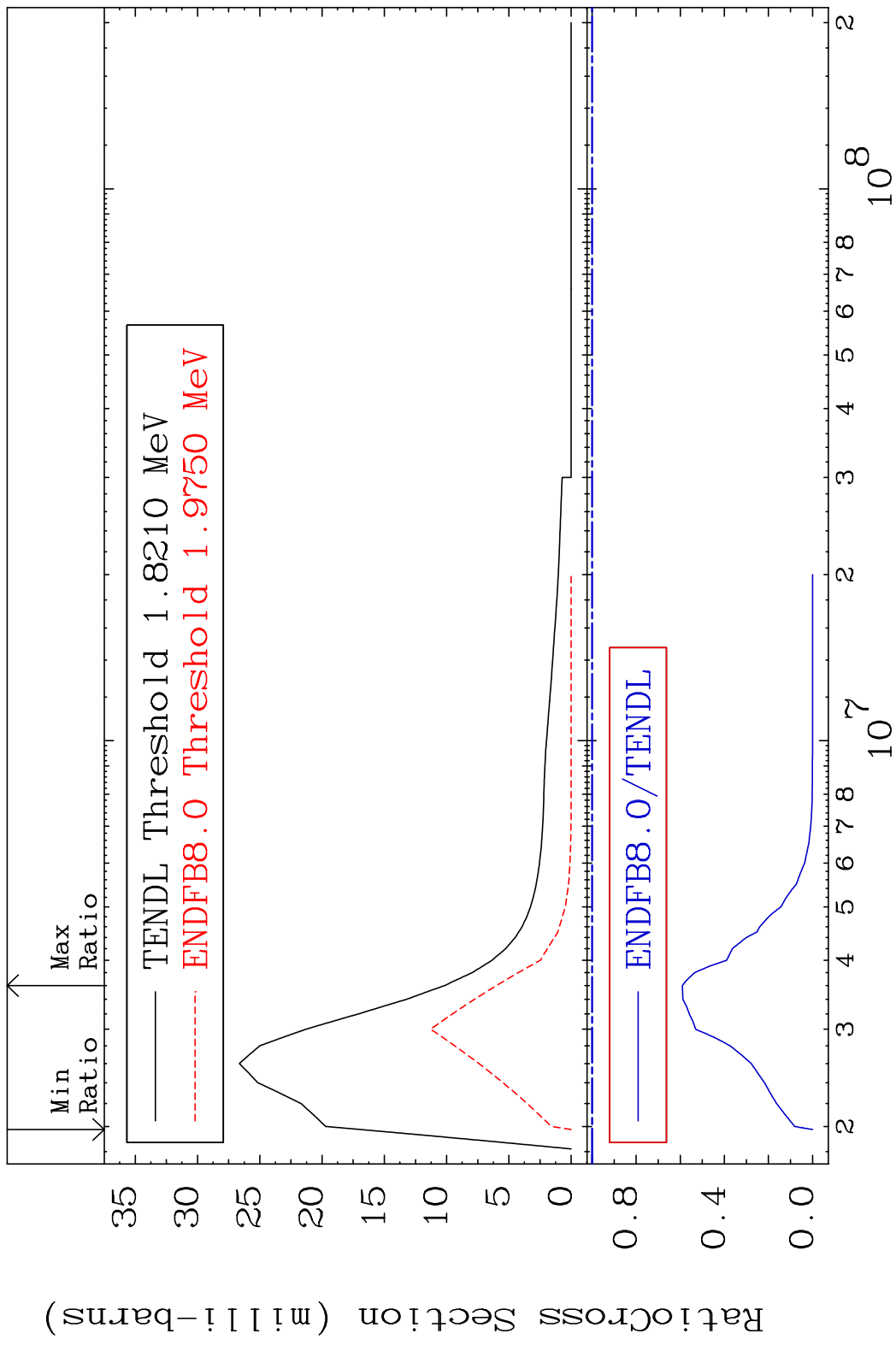
MAT 6425 MT= 78 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 0.584 %



MAT 6425 MT= 79 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 455.6 %



MAT 6425 MT= 80 (n,n') Level 64-Gd-152
 Cross Section -100.0 To -40.95%

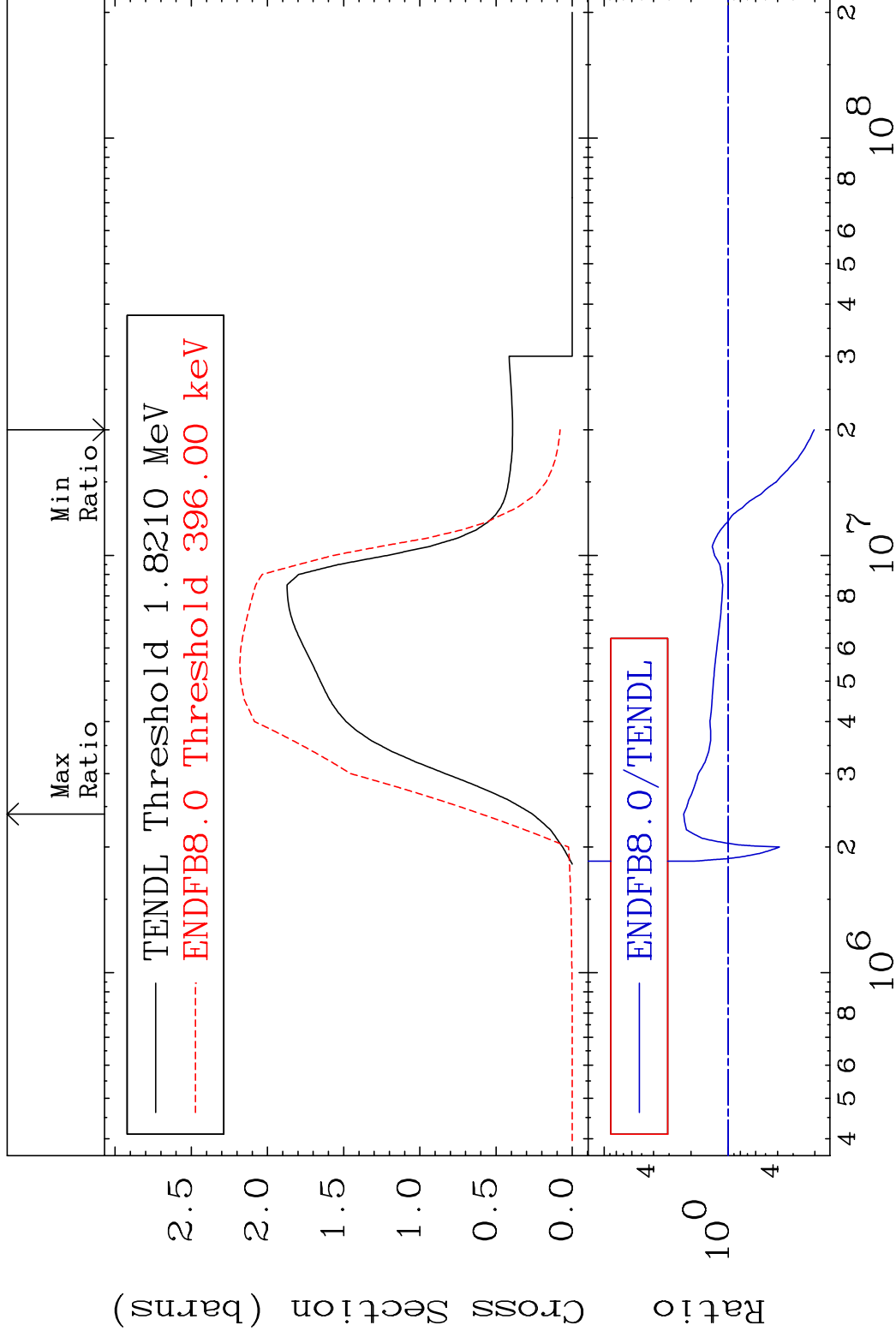


MAT 6425

(n, n') Continuum

64-Gd-152

Cross Section -79.69 To 129.0 %



40

Incident Energy (eV)

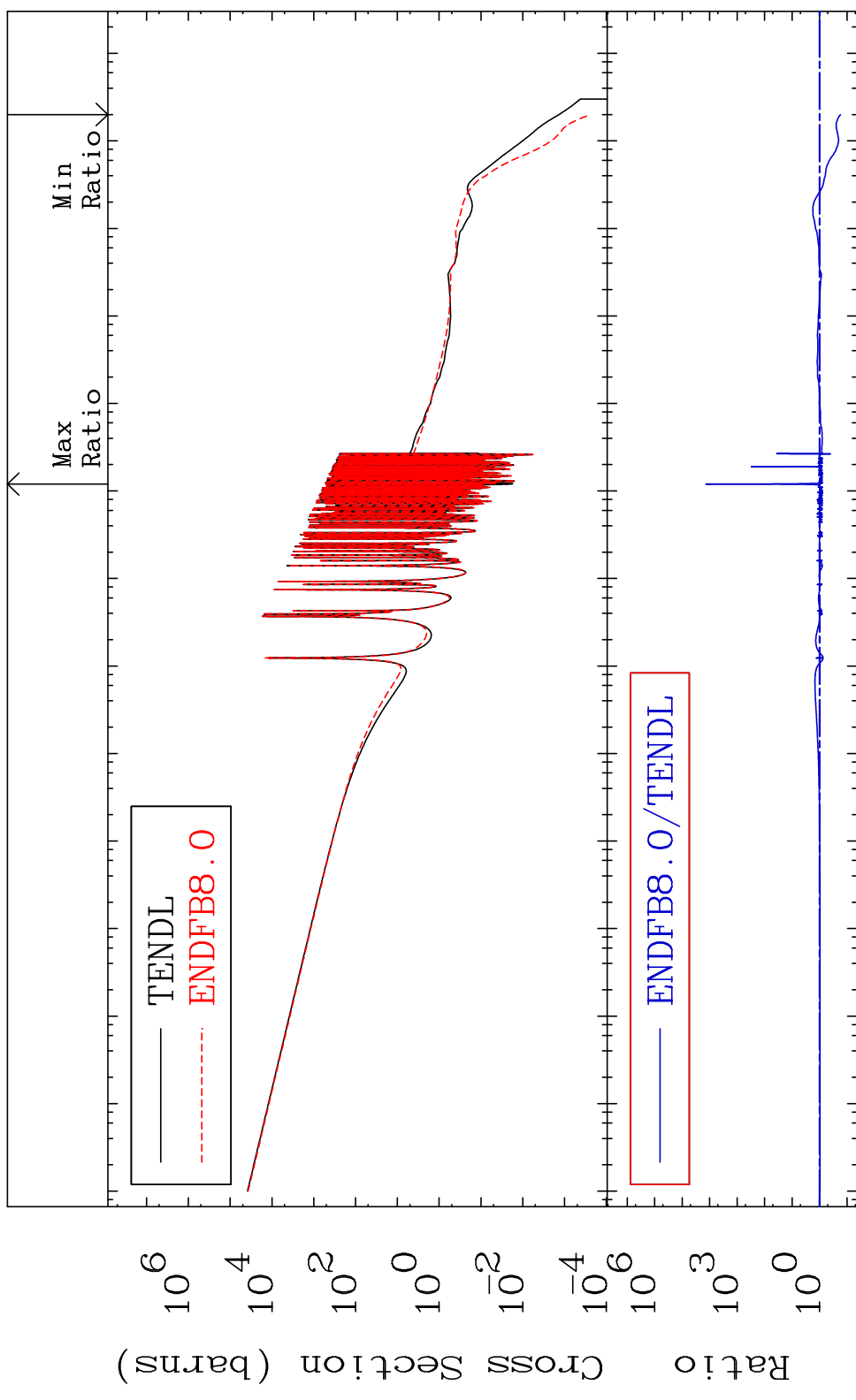
64-Gd-152

MAT 6425

(n, γ)

64-Gd-152

Cross Section -82.58 To 9999. %



41

Incident Energy (eV)

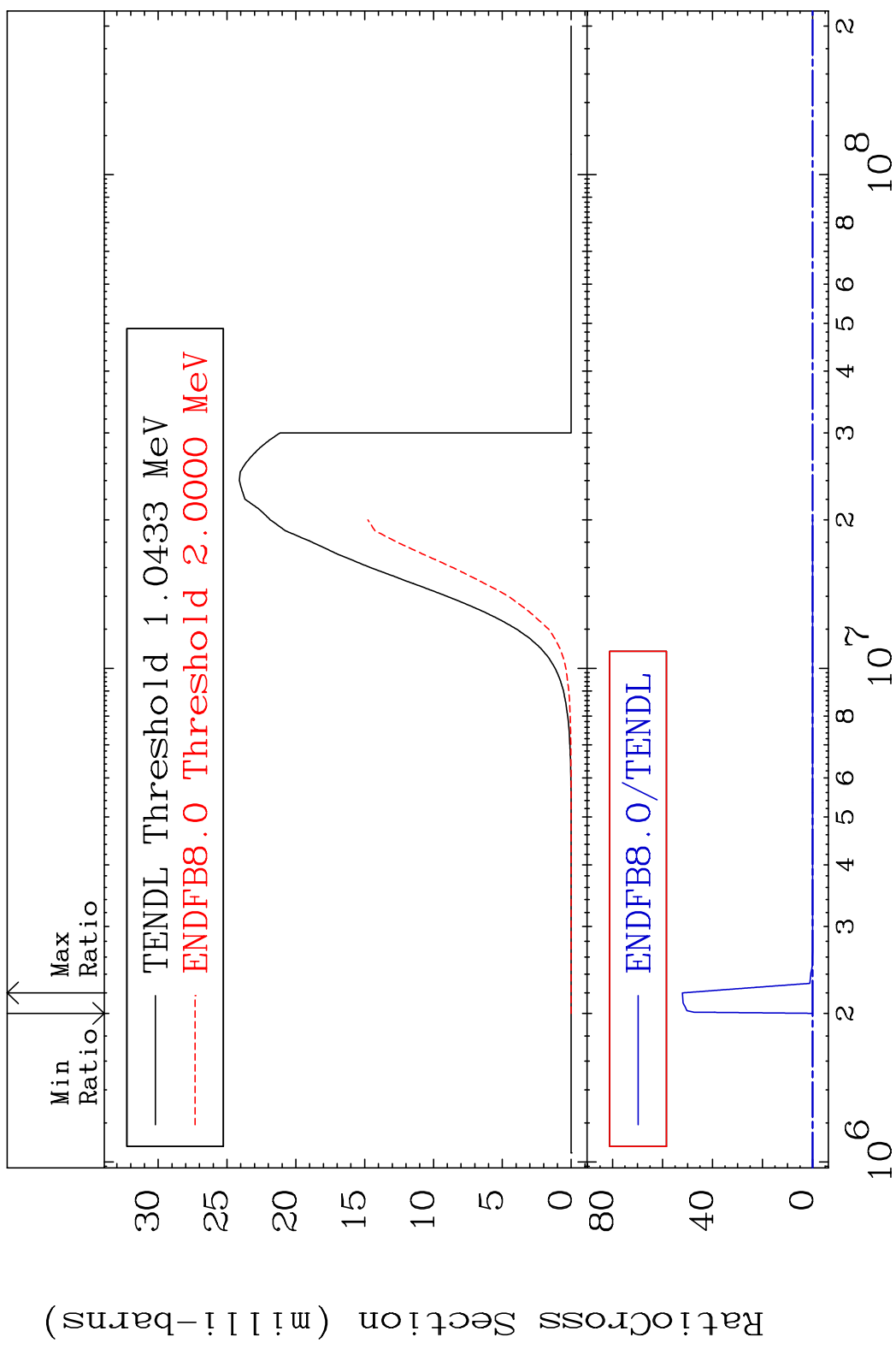
64-Gd-152

MAT 6425

(n,p)

64-Gd-152

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

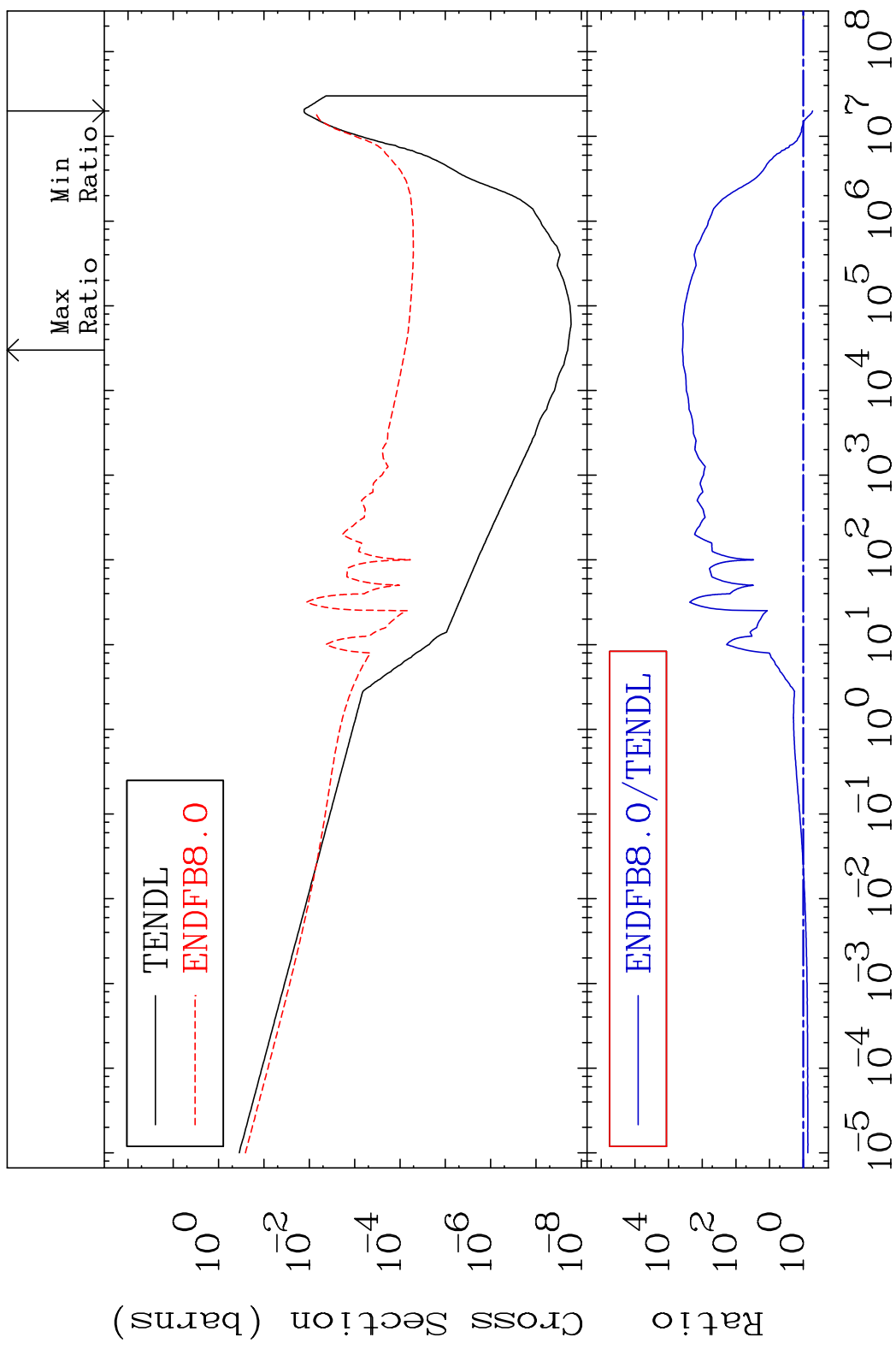
64-Gd-152

MAT 6425

(n, α)

64-Gd-152

Cross Section -47.15 To 9999. %

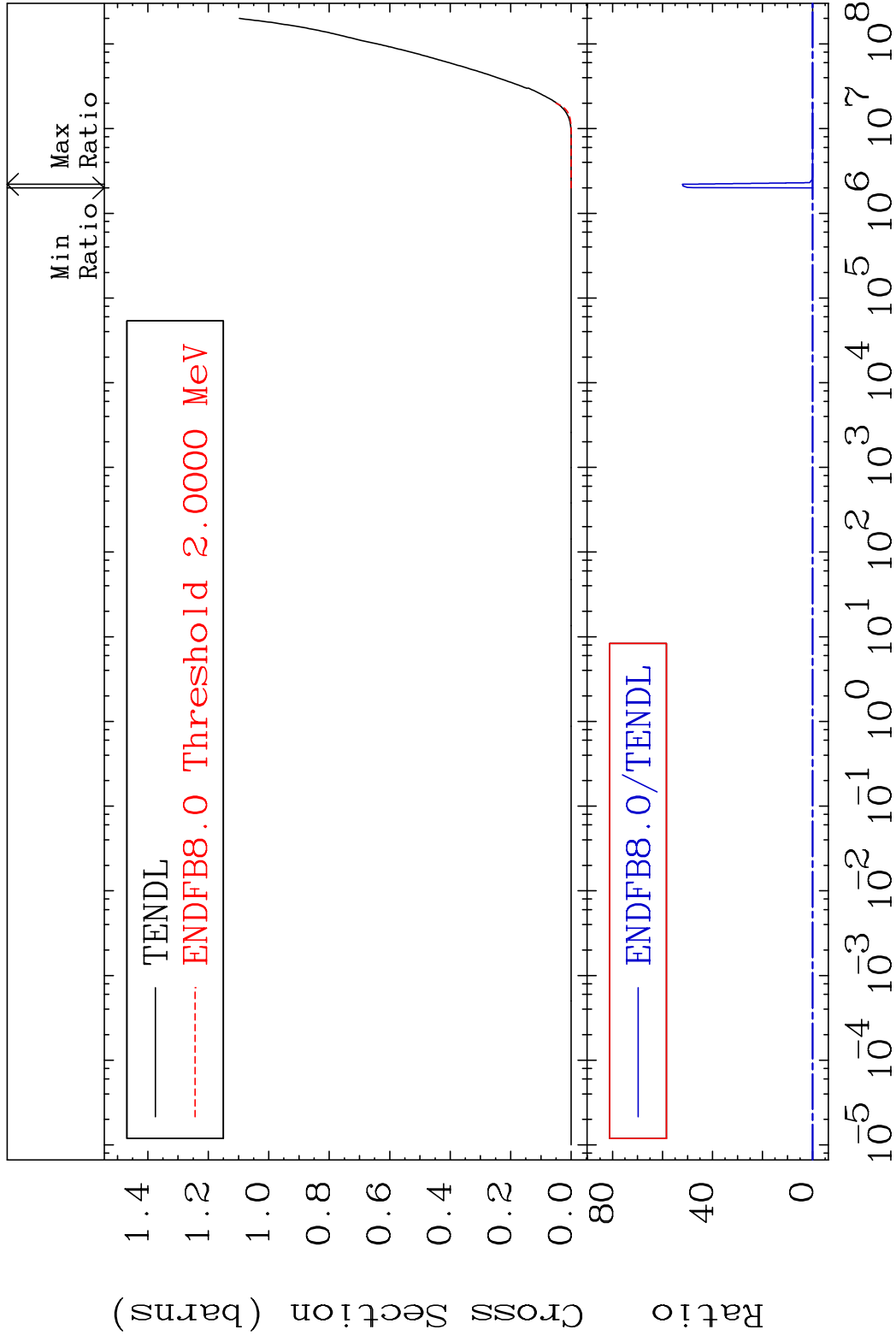


MAT 6425

Hydrogen Production

64-Gd-152

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

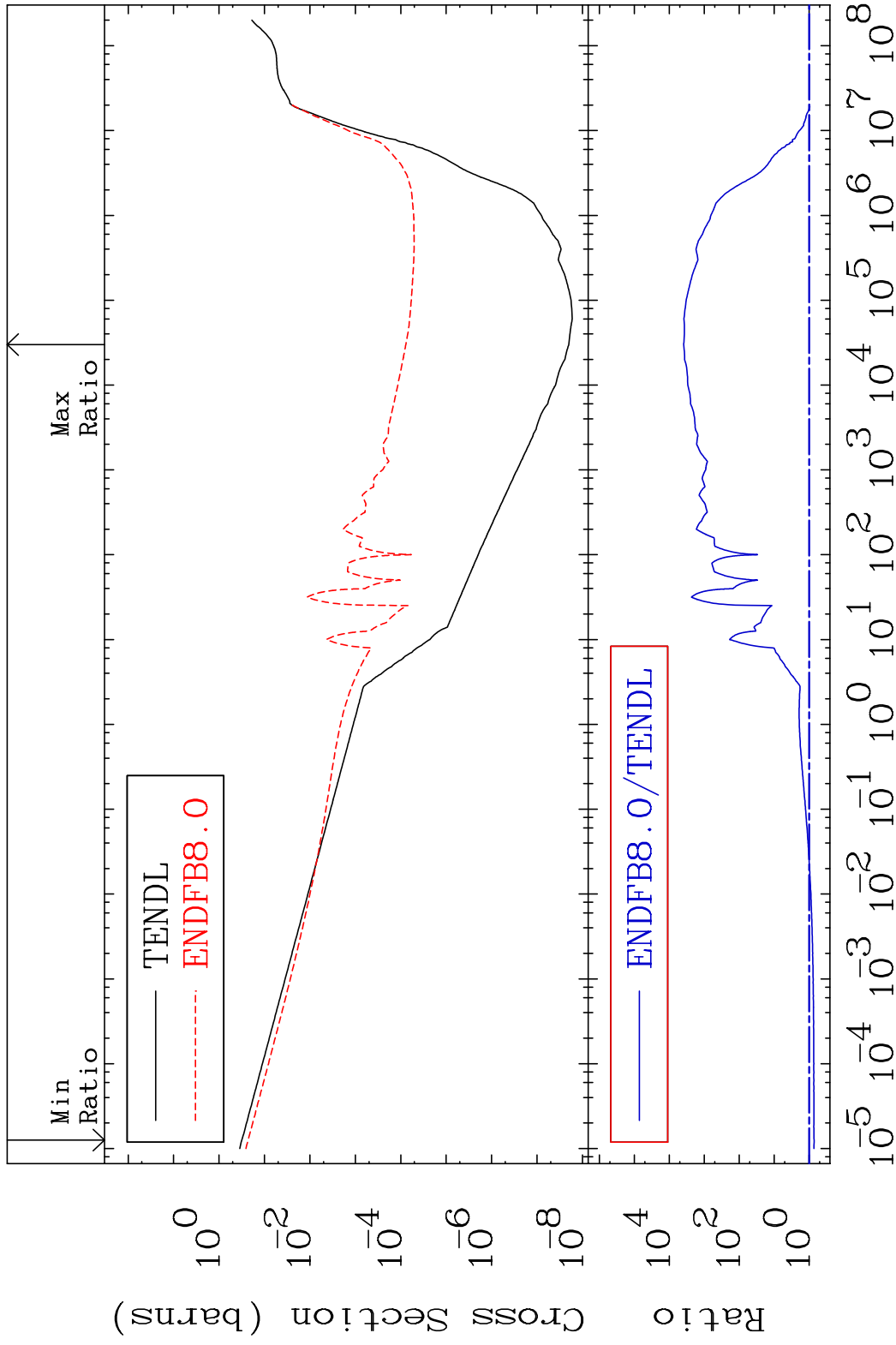
64-Gd-152

MAT 6425

He-4 Production

64-Gd-152

Cross Section -27.72 To 9999. %

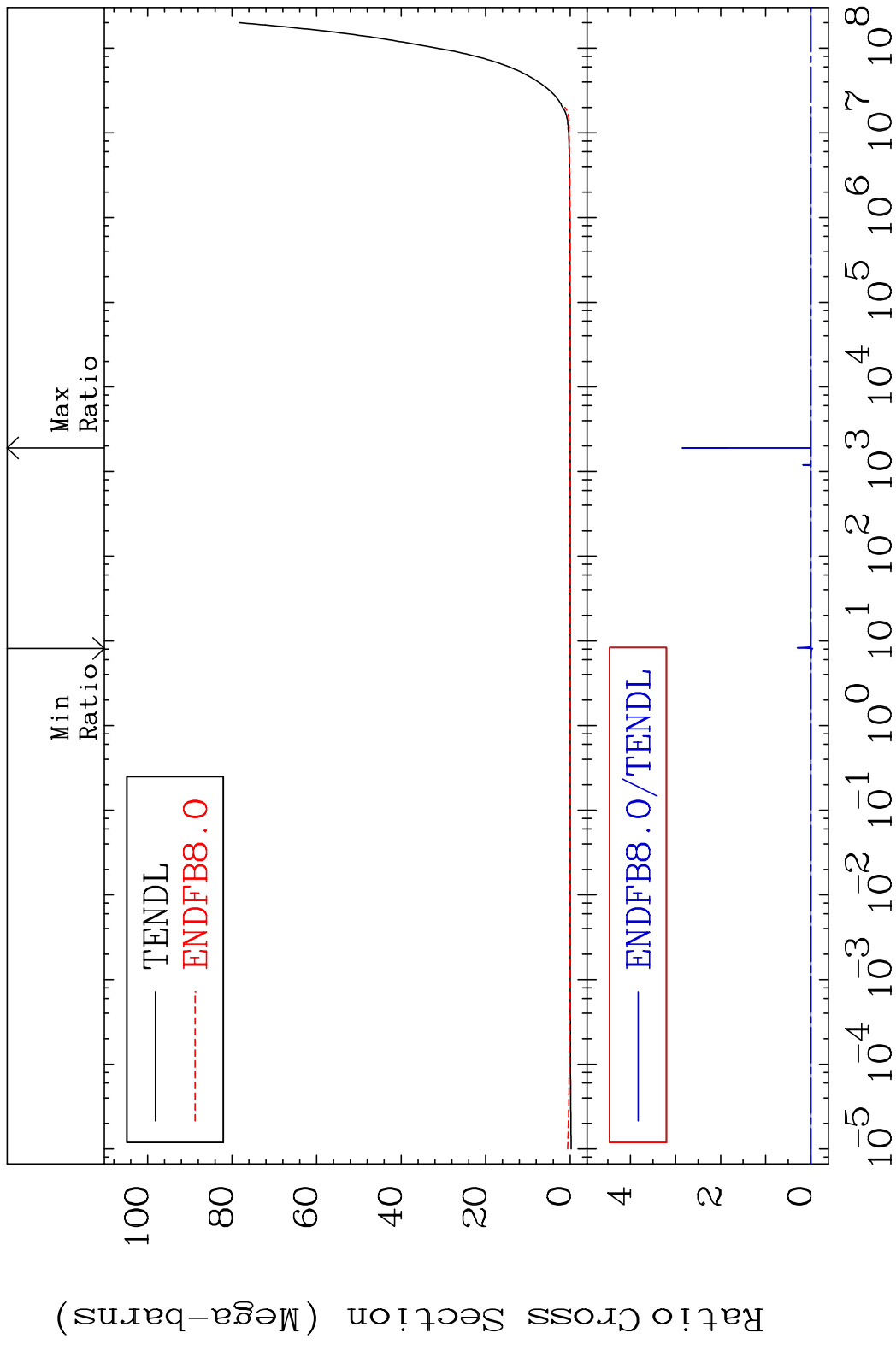


45

Incident Energy (eV)

64-Gd-152

MAT 6425 Kerma total (eV-barns) 64-Gd-152
 Cross Section -4093. To 9999. %

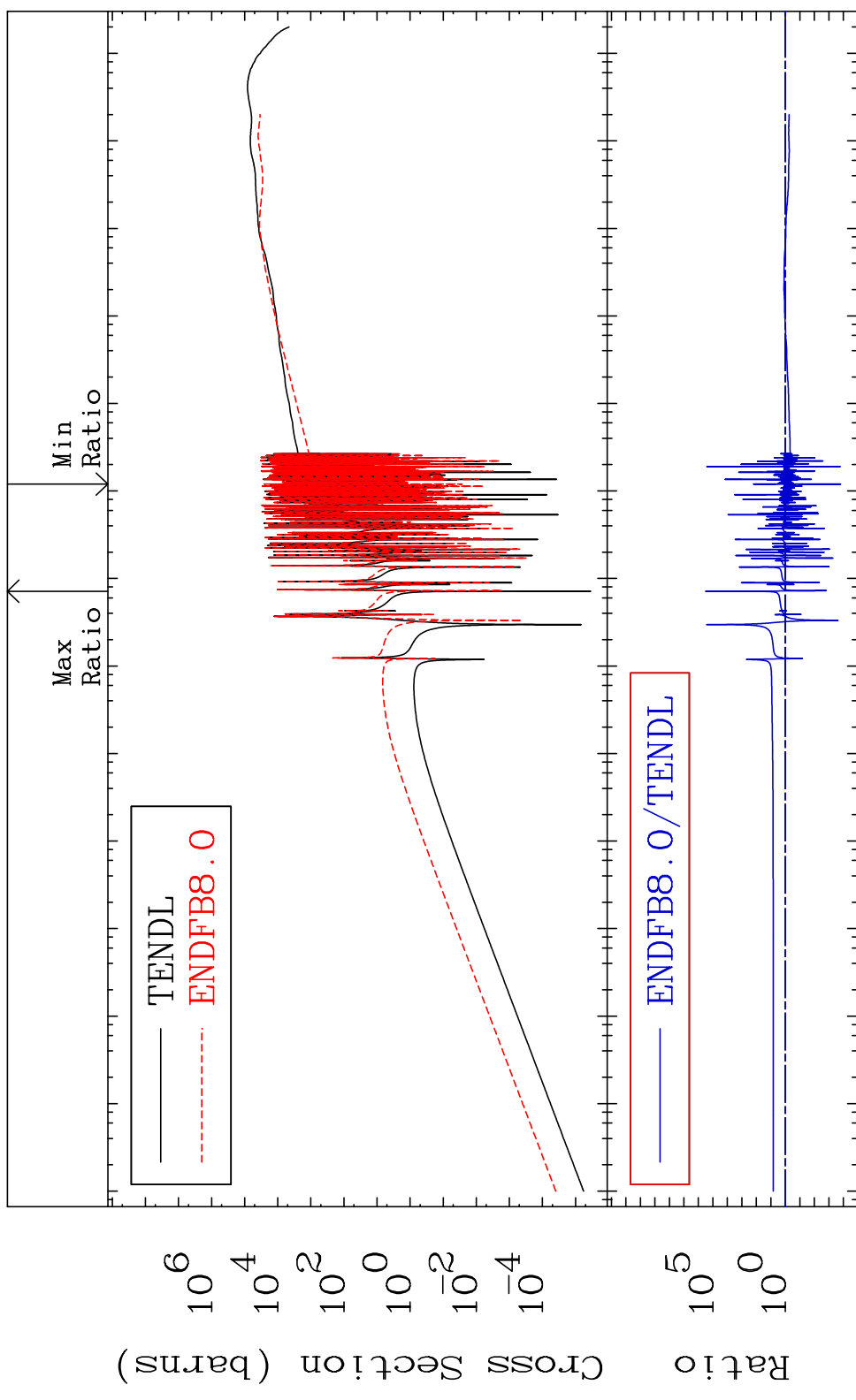


46 Incident Energy (eV) 64-Gd-152

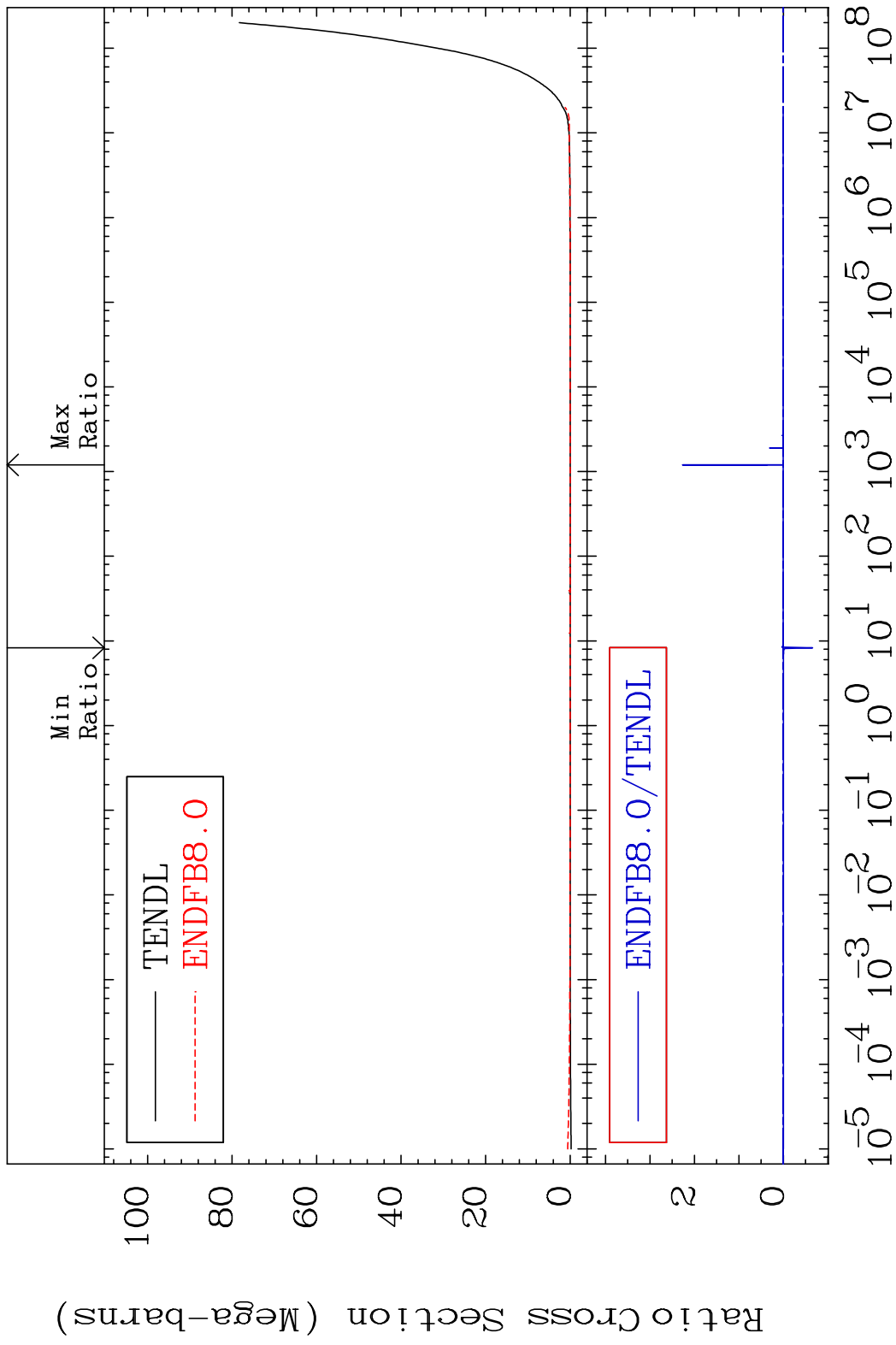
MAT 6425

Kerma elastic Cross Section -99.98 To 9999. %

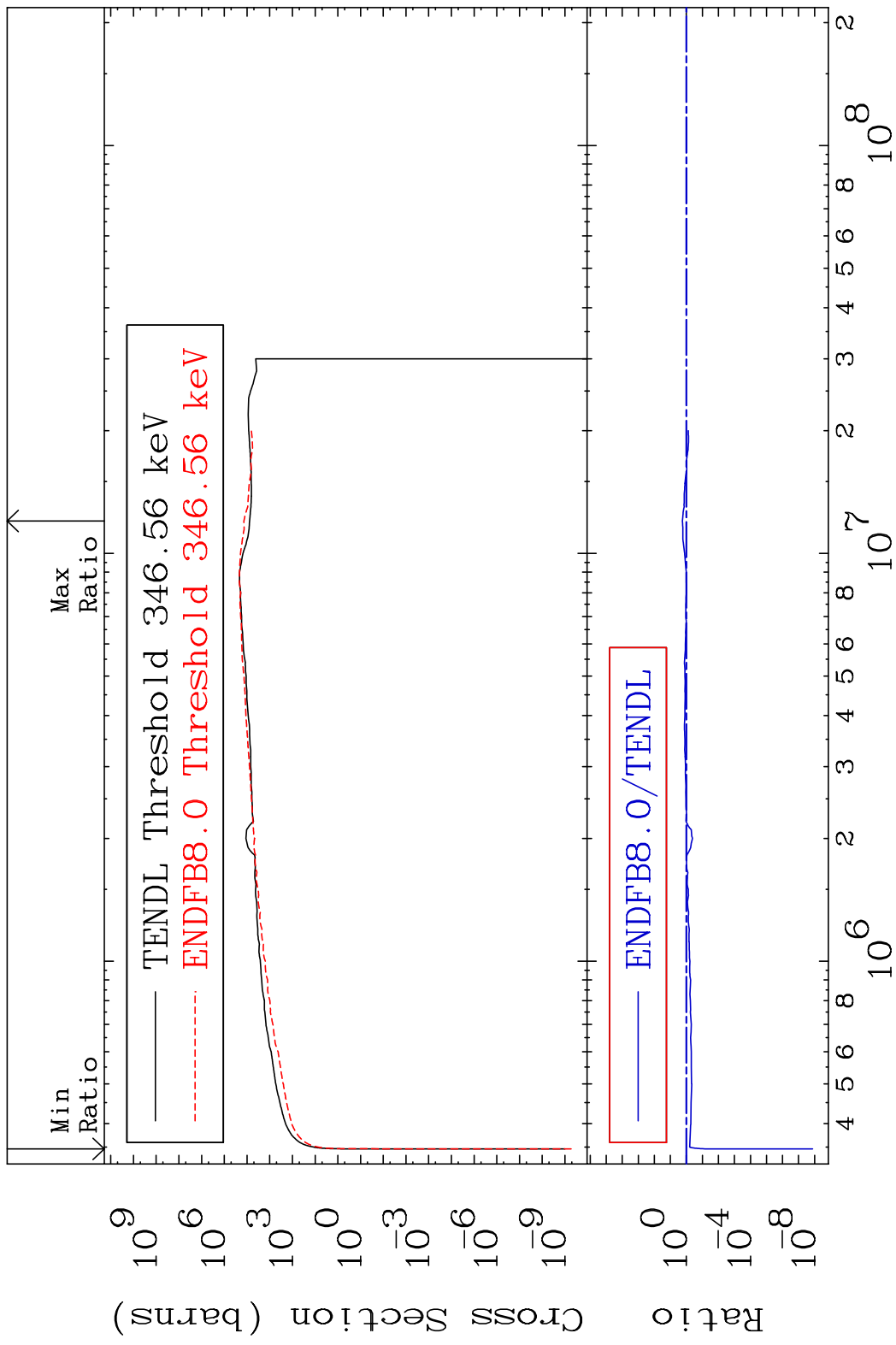
64-Gd-152



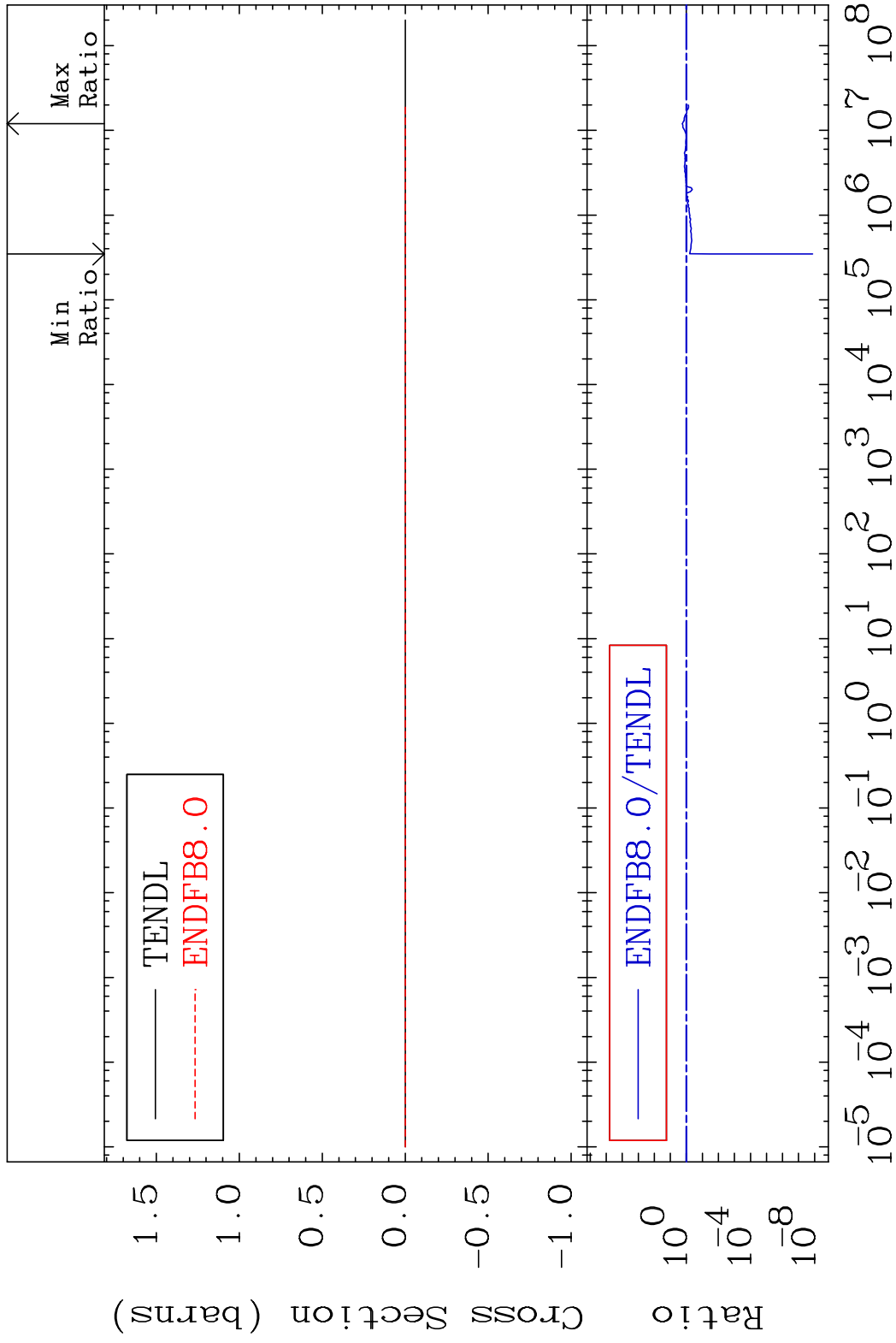
MAT 6425 Kerma non-elastic (all but mt2) 64-Gd-152
 Cross Section -9999. To 9999. %



MAT 6425 Kerma inelastic (mt51-91) 64-Gd-152
 Cross Section -100.0 To 78.16 %

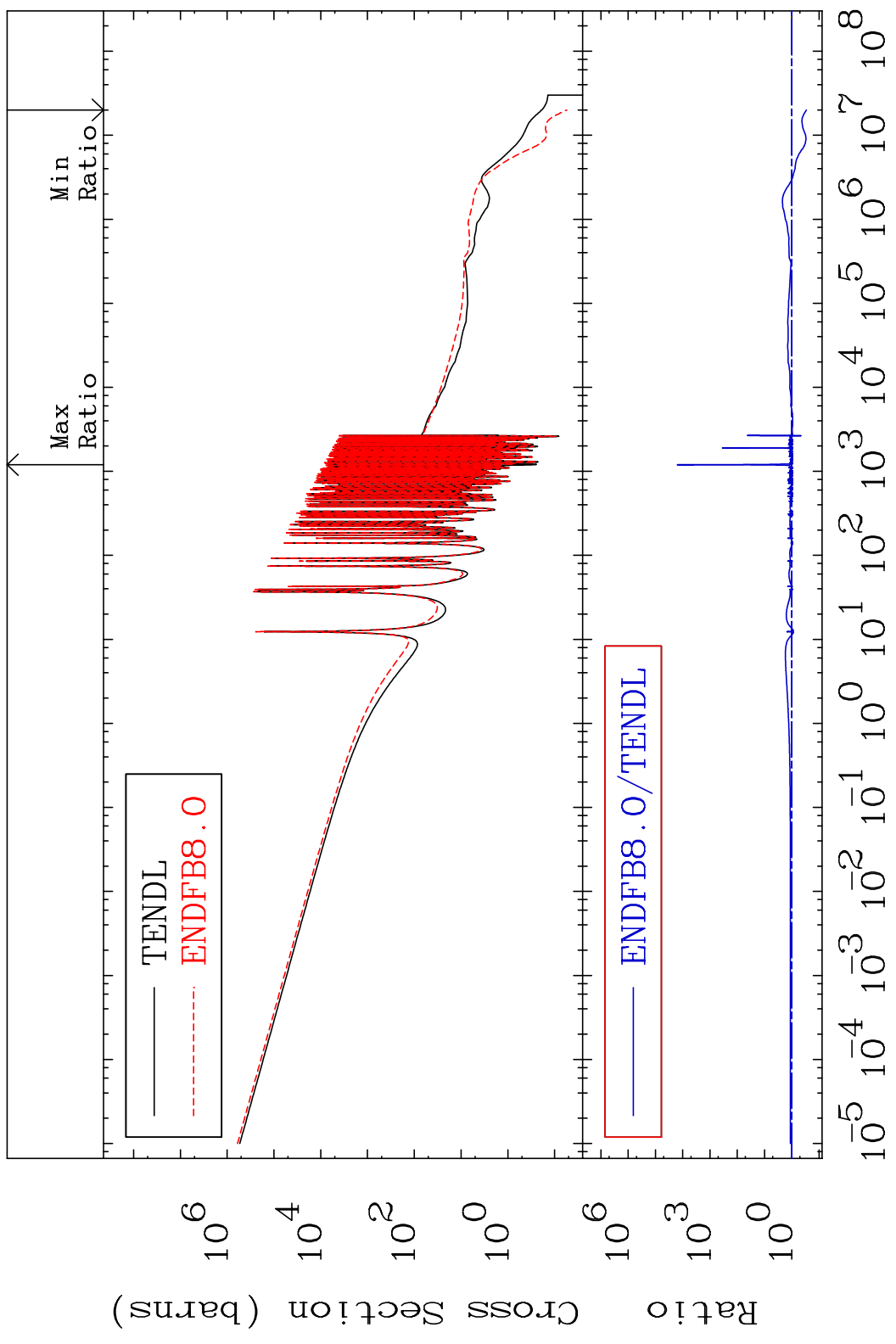


MAT 6425 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-152
 Cross Section -100.0 To 78.16 %



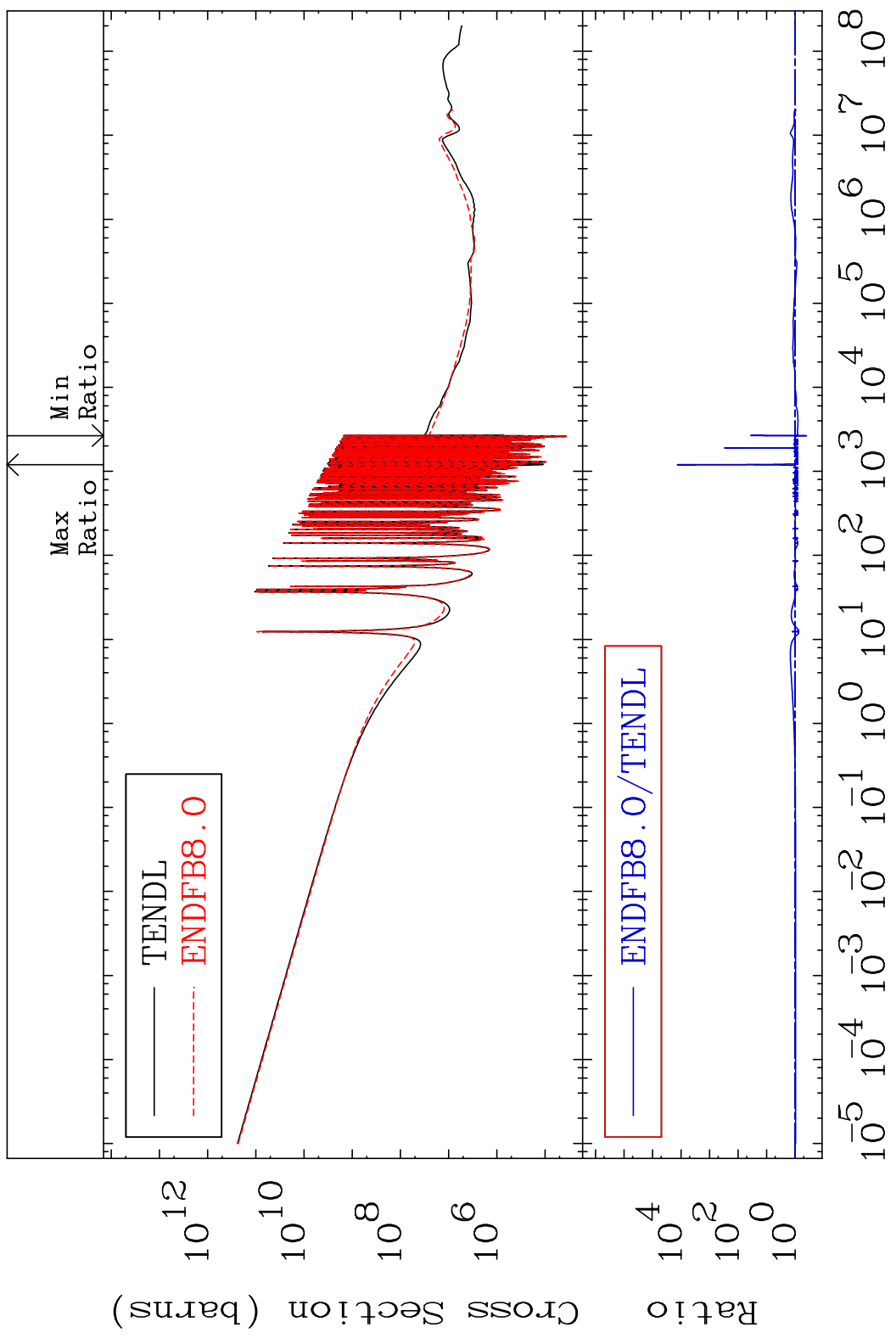
MAT 6425

Kerma capture (mt102) 64-Gd-152
Cross Section -70.96 To 9999. %

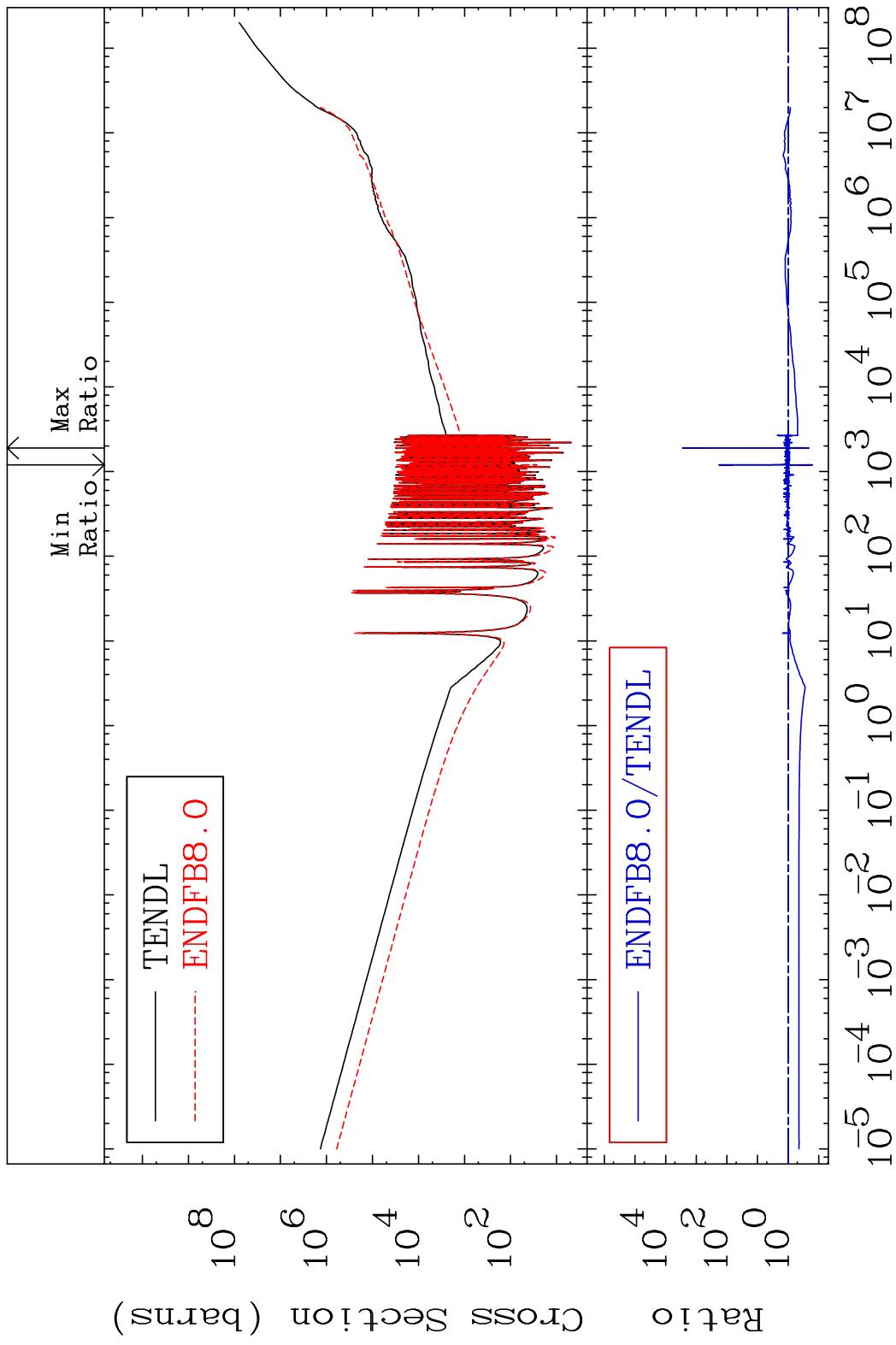


MAT 6425

Total photon (eV-barns) 64-Gd-152
Cross Section -59.59 To 9999. %



MAT 6425 Total kinematic kerma (high limit) 64-Gd-152
 Cross Section -84.07 To 9999. %

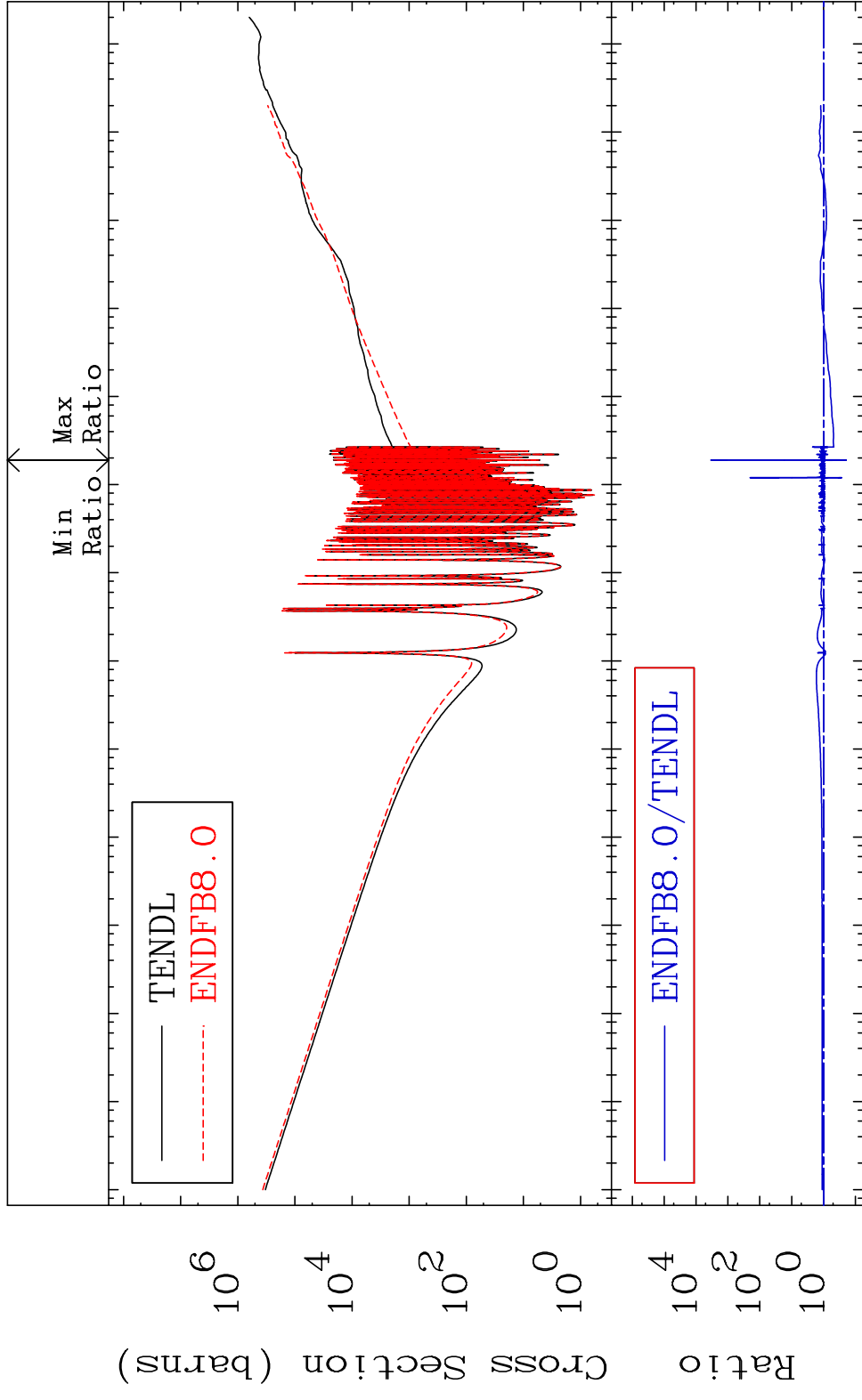


MAT 6425

Dpa total (eV-barns)

64-Gd-152

Cross Section -80.76 To 9999. %



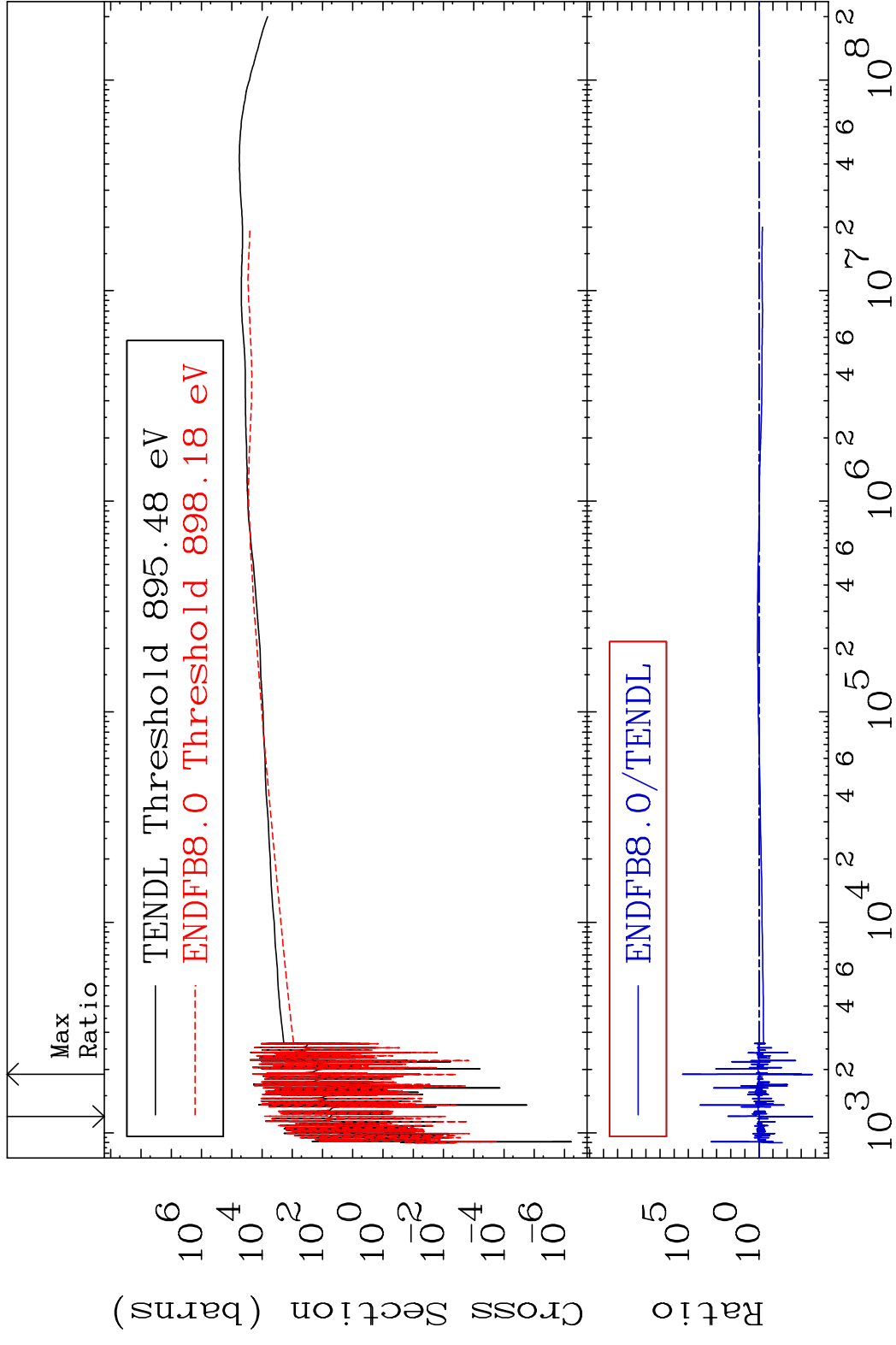
MAT 6425

Dpa elastic (mt2)

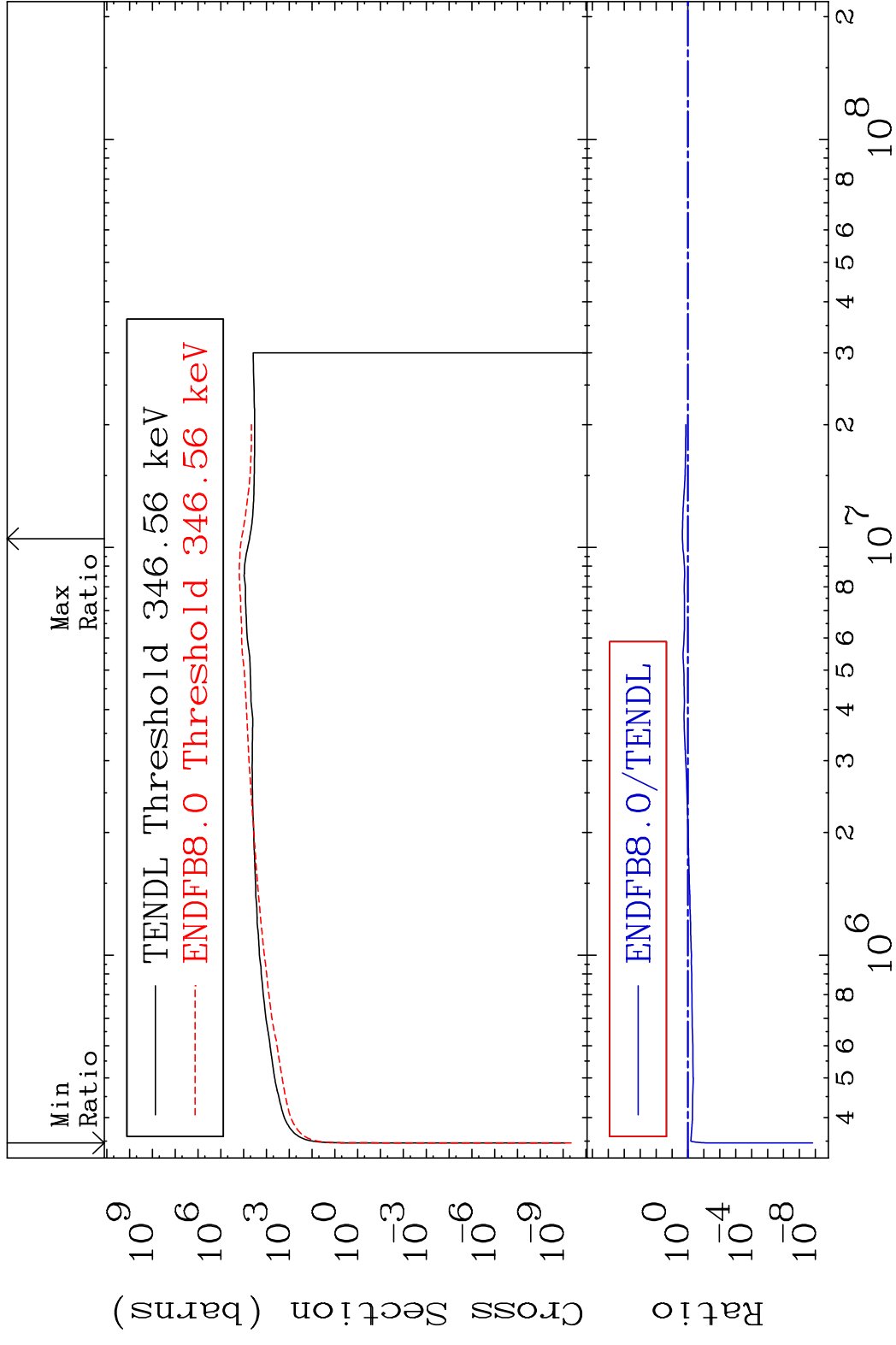
64-Gd-152

Cross Section

-99.98 To 9999. %



MAT 6425 Dpa inelastic (mt51-91) 64-Gd-152
 Cross Section -100.0 To 124.8 %



MAT 6425 Dpa disappearance (mt102 -120) 64-Gd-152
 Cross Section -53.08 To 9999. %

