

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

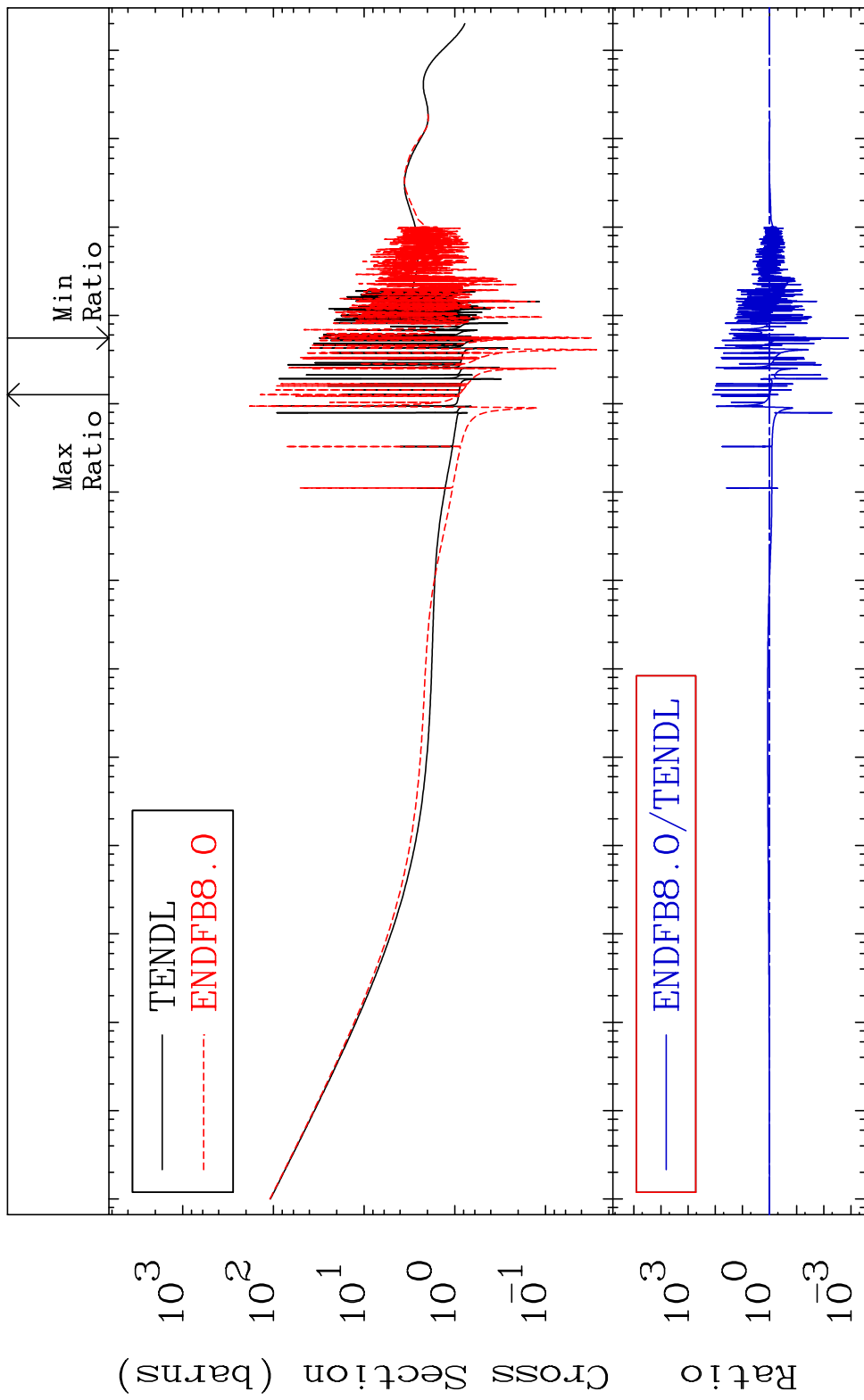
U.S.A.

Tele: 925-443-1911

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

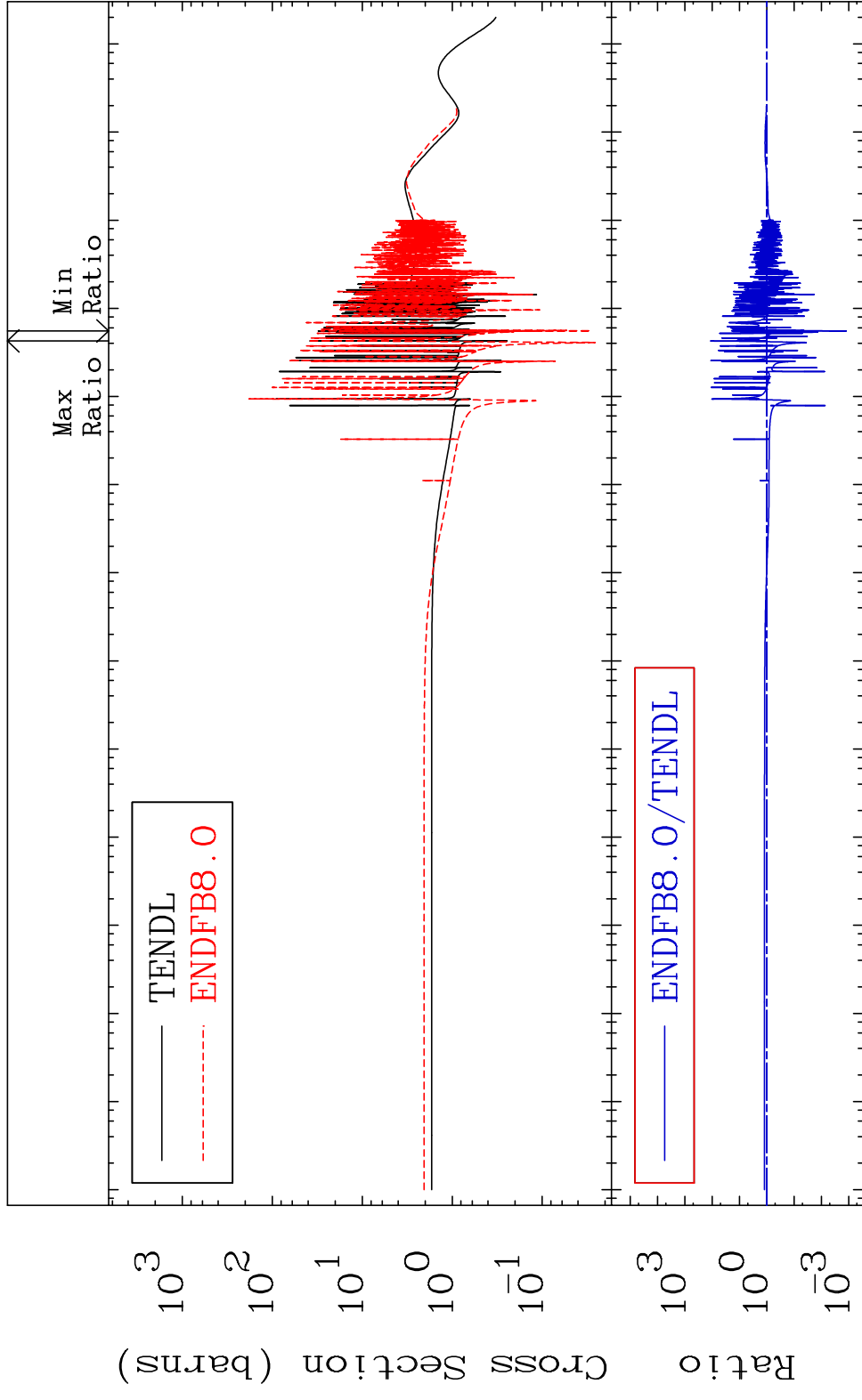
Press Mouse Button to Start

MAT 1925 Total 19-K -39
 Cross Section -99.87 To 9999. %



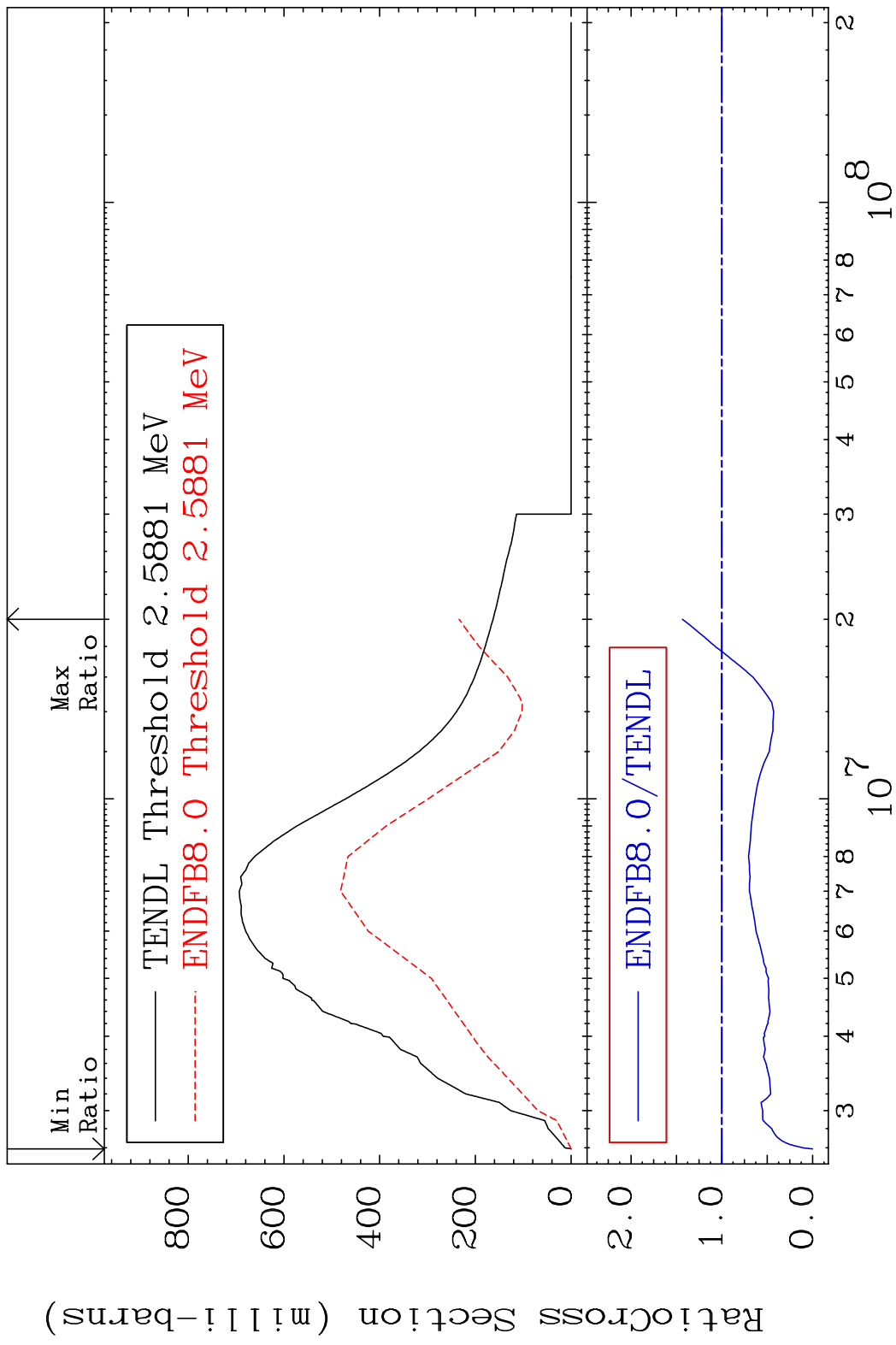
1 Incident Energy (eV) 19-K -39

MAT 1925 Elastic 19-K -39
 Cross Section -99.88 To 9999. %



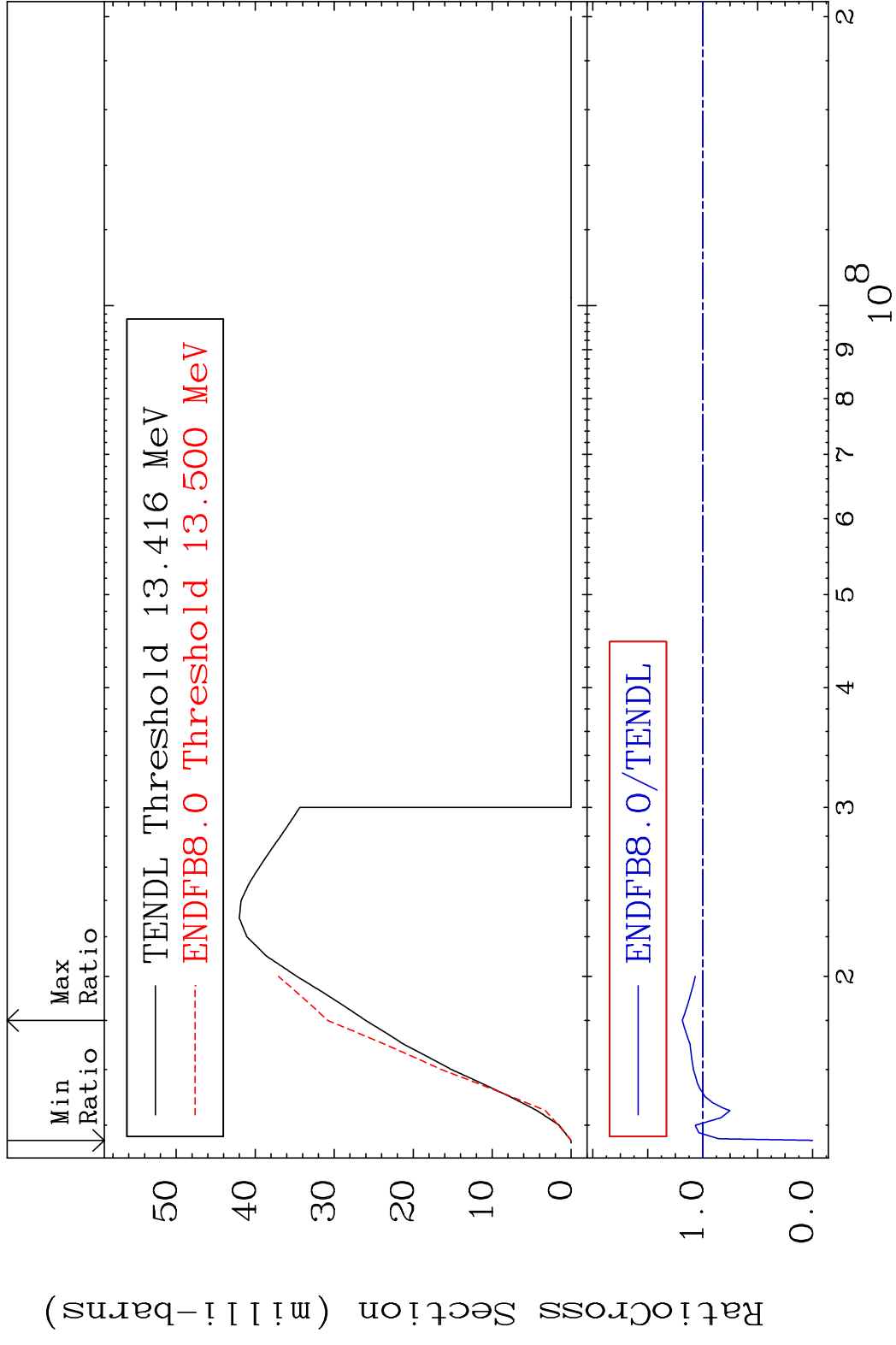
2 Incident Energy (eV) 19-K -39

MAT 1925 Inelastic 19-K -39
 Cross Section -100.0 To 43.42 %



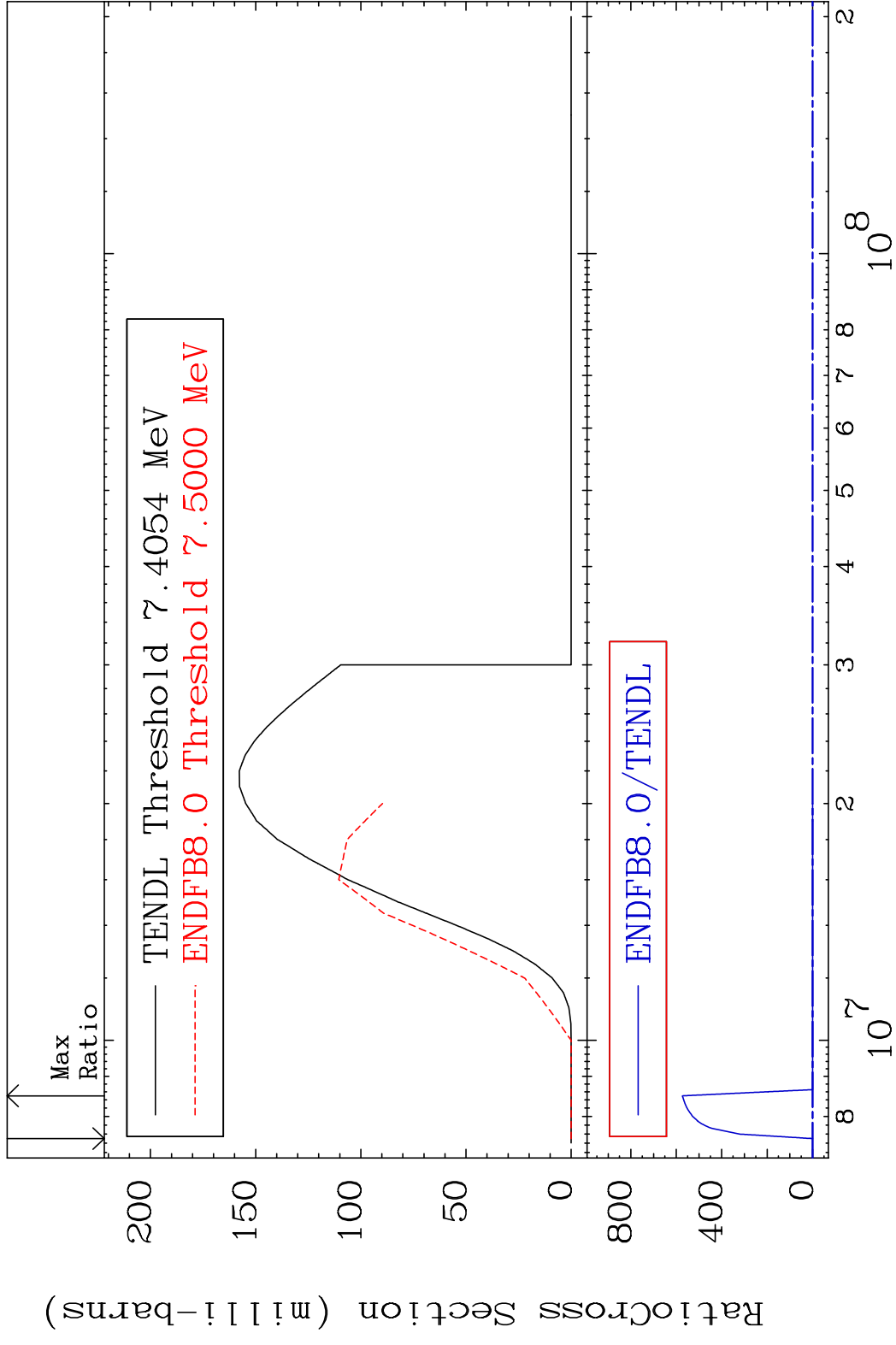
3 3 Incident Energy (eV) 19-K -39

MAT 1925 (n,2n) 19-K -39
 Cross Section -100.0 To 18.50 %



4 Incident Energy (eV) 19-K -39

MAT 1925 (n, n') α 19-K -39
 Cross Section -100.0 To 9999. %



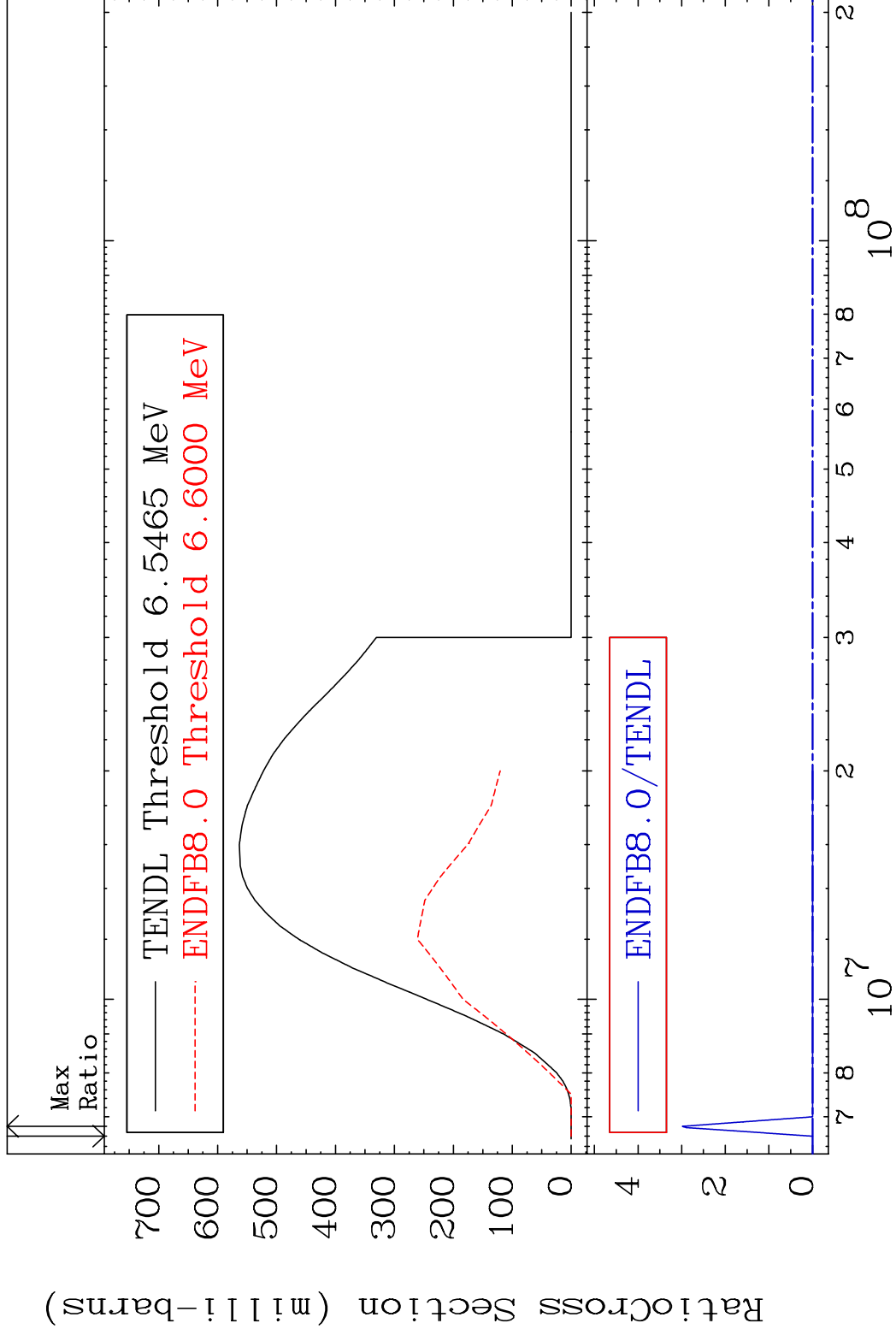
5 19-K -39

MAT 1925

(n, n') p

19-K -39

Cross Section -100.0 To 9999. %

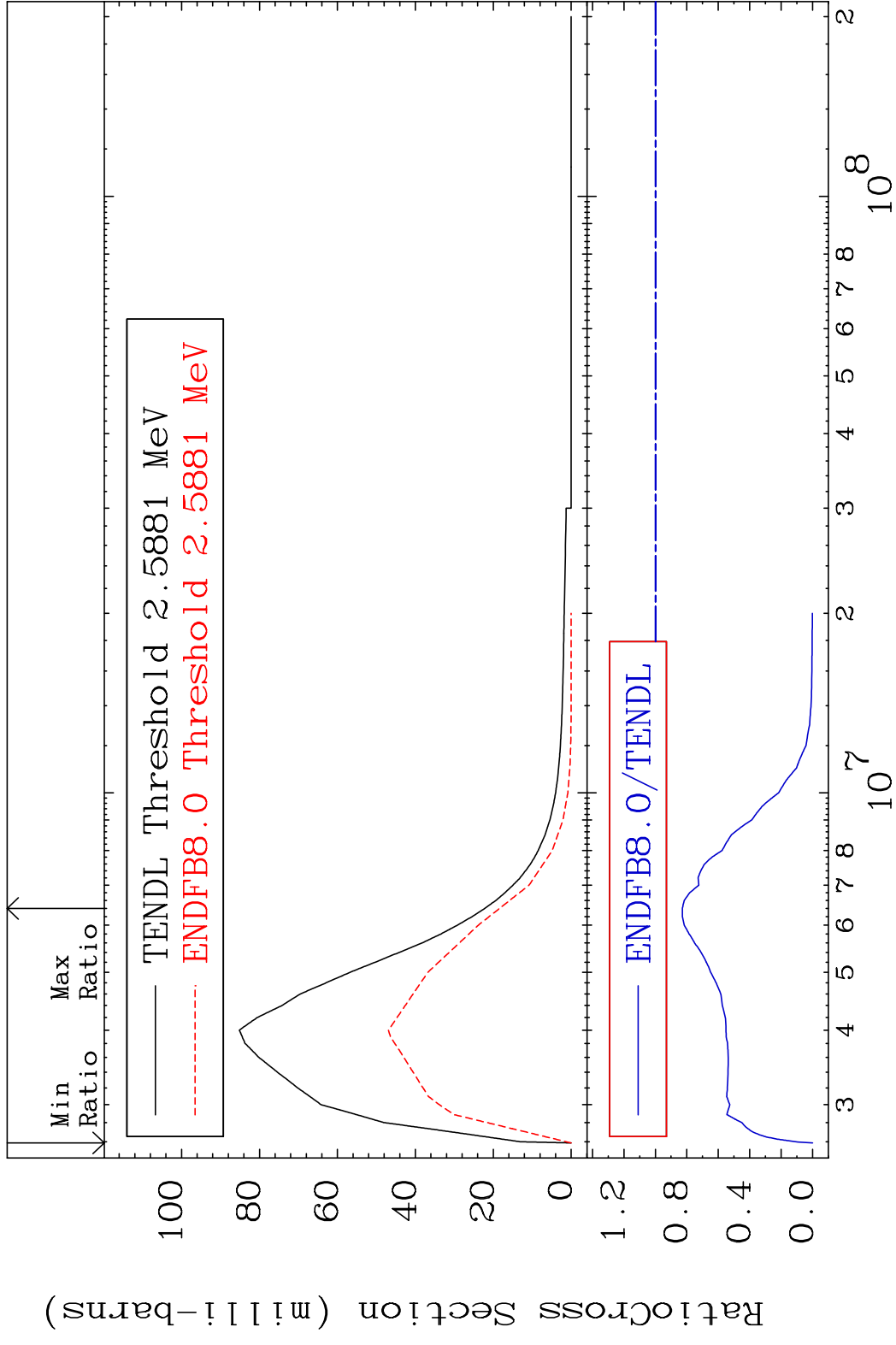


6

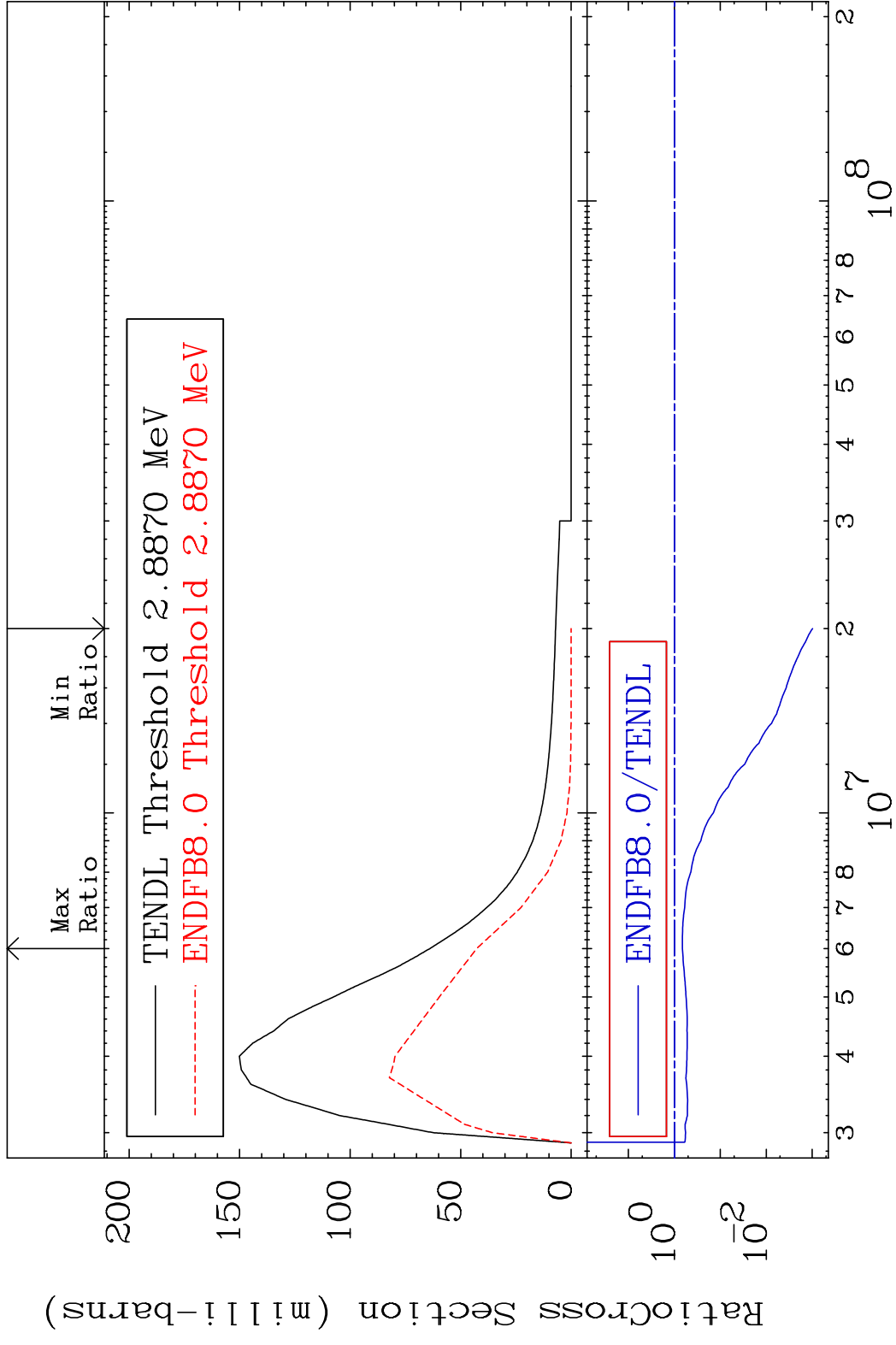
Incident Energy (eV)

19-K -39

MAT 1925 MT= 51 (n,n') Level 19-K -39
 Cross Section -100.0 To -17.16%

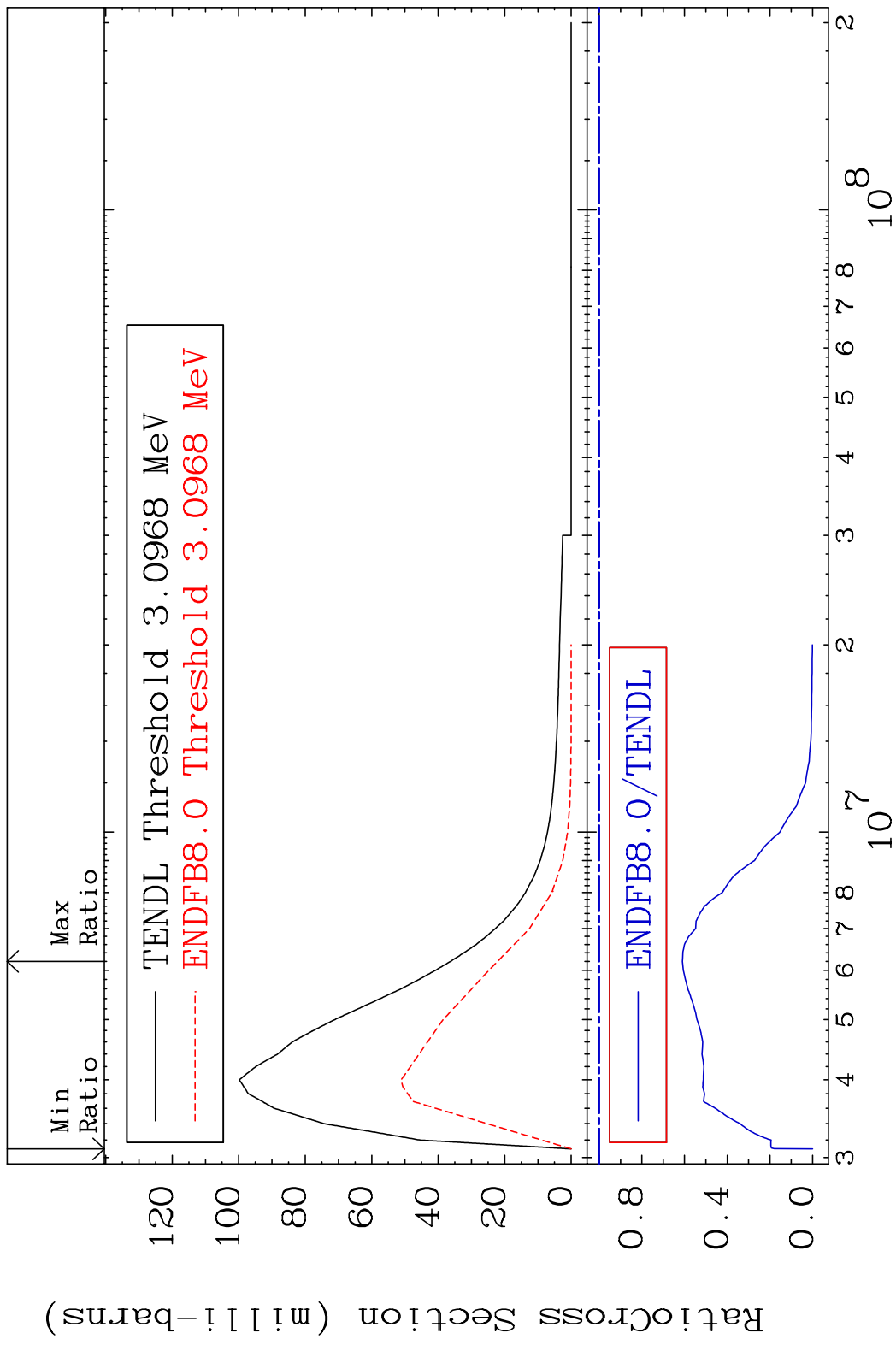


MAT 1925 MT= 52 (n,n') Level 19-K -39
 Cross Section -99.90 To -33.17%

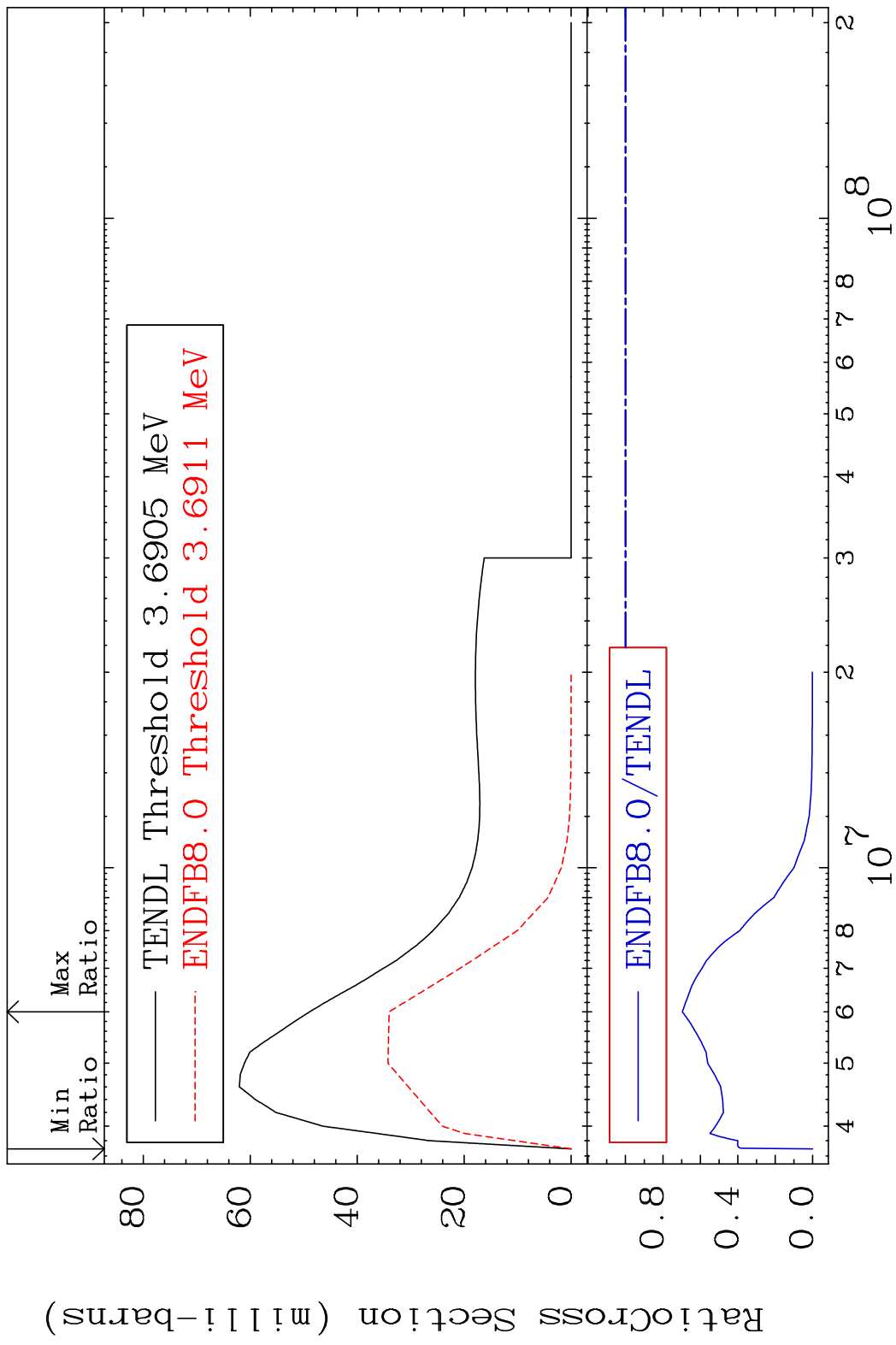


8 8 Incident Energy (eV) 19-K -39

MAT 1925 MT= 53 (n,n') Level 19-K -39
 Cross Section -100.0 To -38.97%



MAT 1925 MT= 54 (n,n') Level 19-K -39
 Cross Section -100.0 To -30.40%



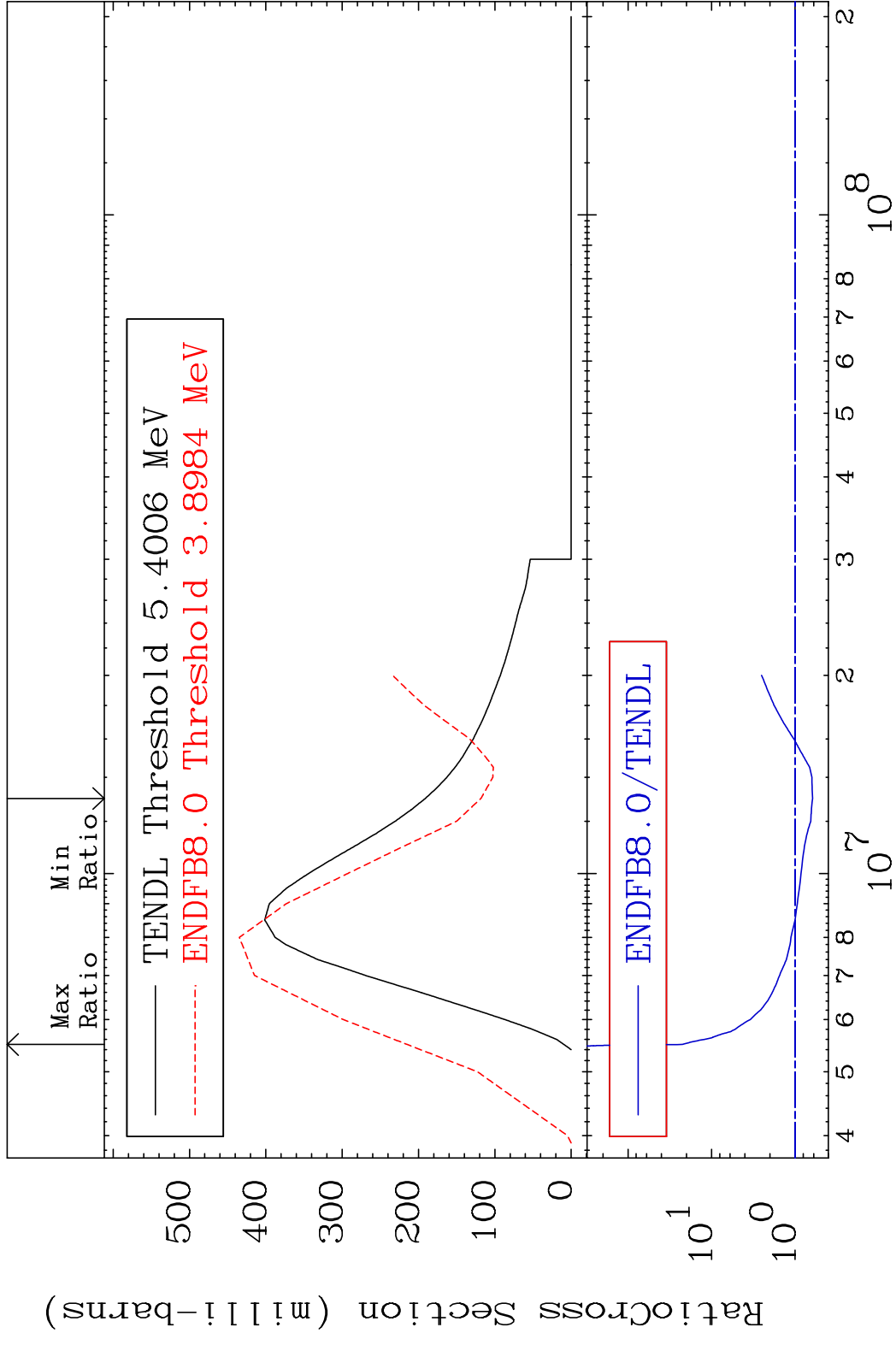
10 19-K -39

MAT 1925

(n,n') Continuum

19-K -39

Cross Section -38.09 To 2140. %

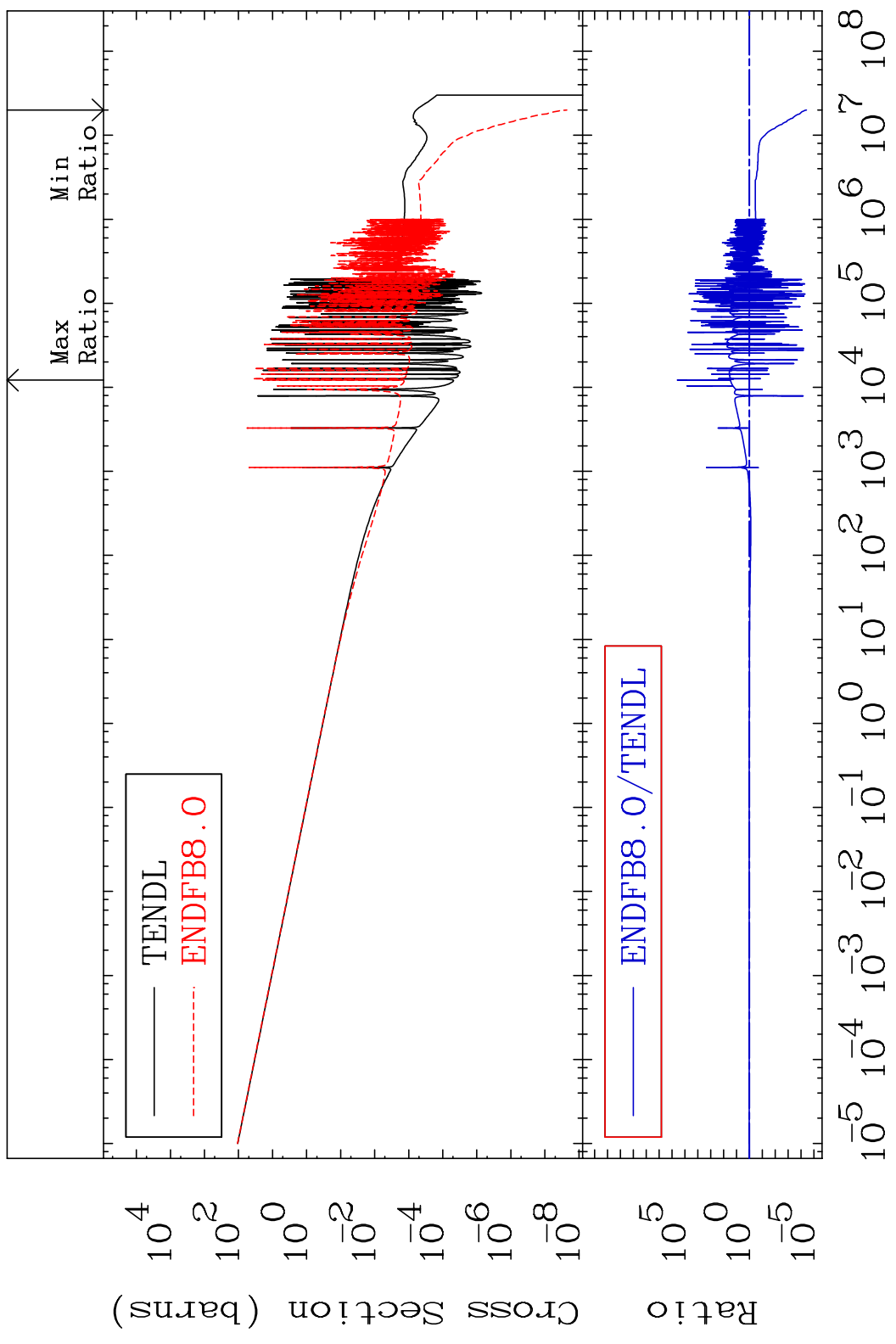


MAT 1925

(n, γ)

19-K -39

Cross Section -100.0 To 9999. %



12

Incident Energy (eV)

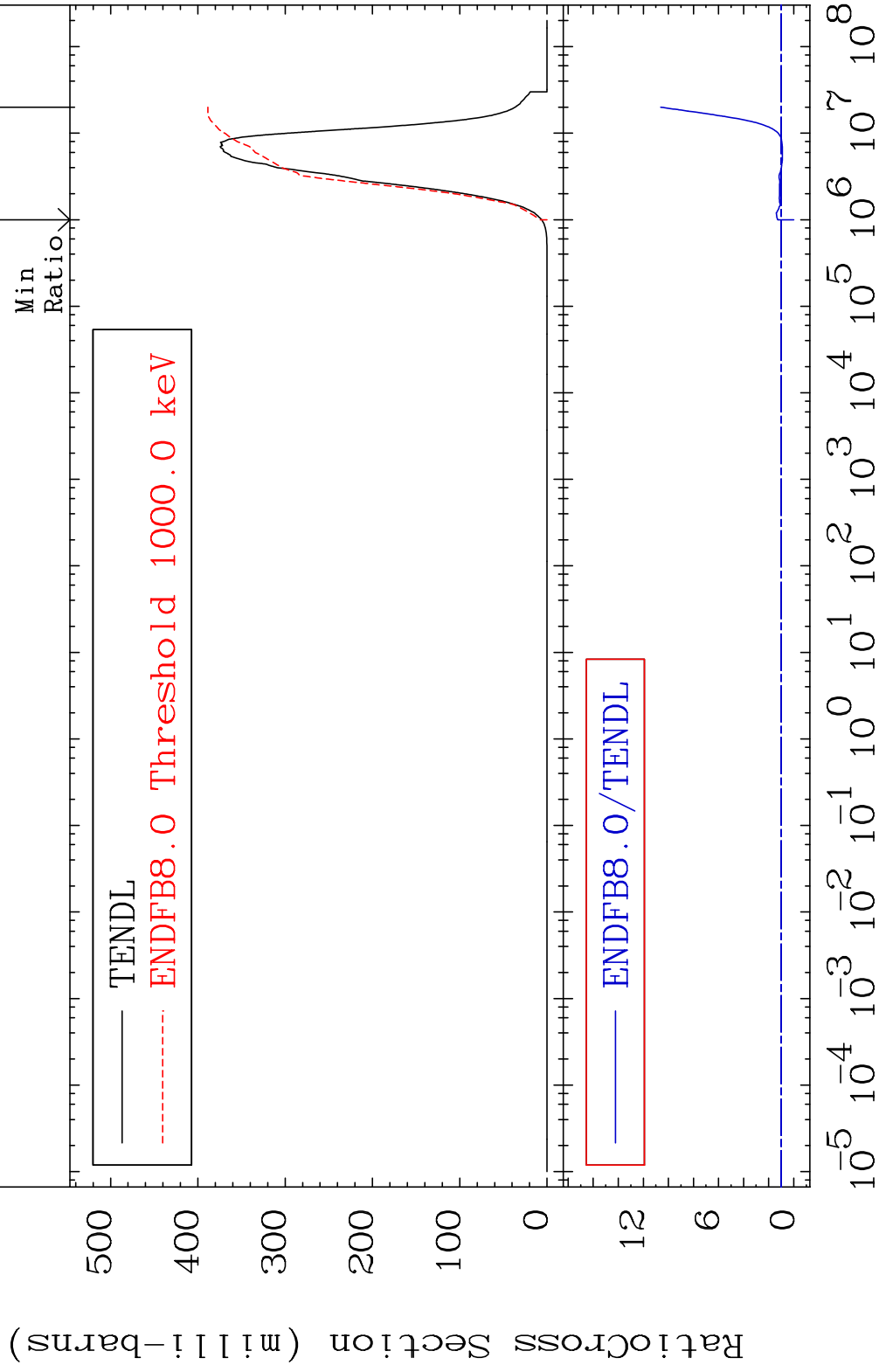
19-K -39

MAT 1925

(n,p)

19-K -39

Cross Section -100.0 To 961.8 %



13

Incident Energy (eV)

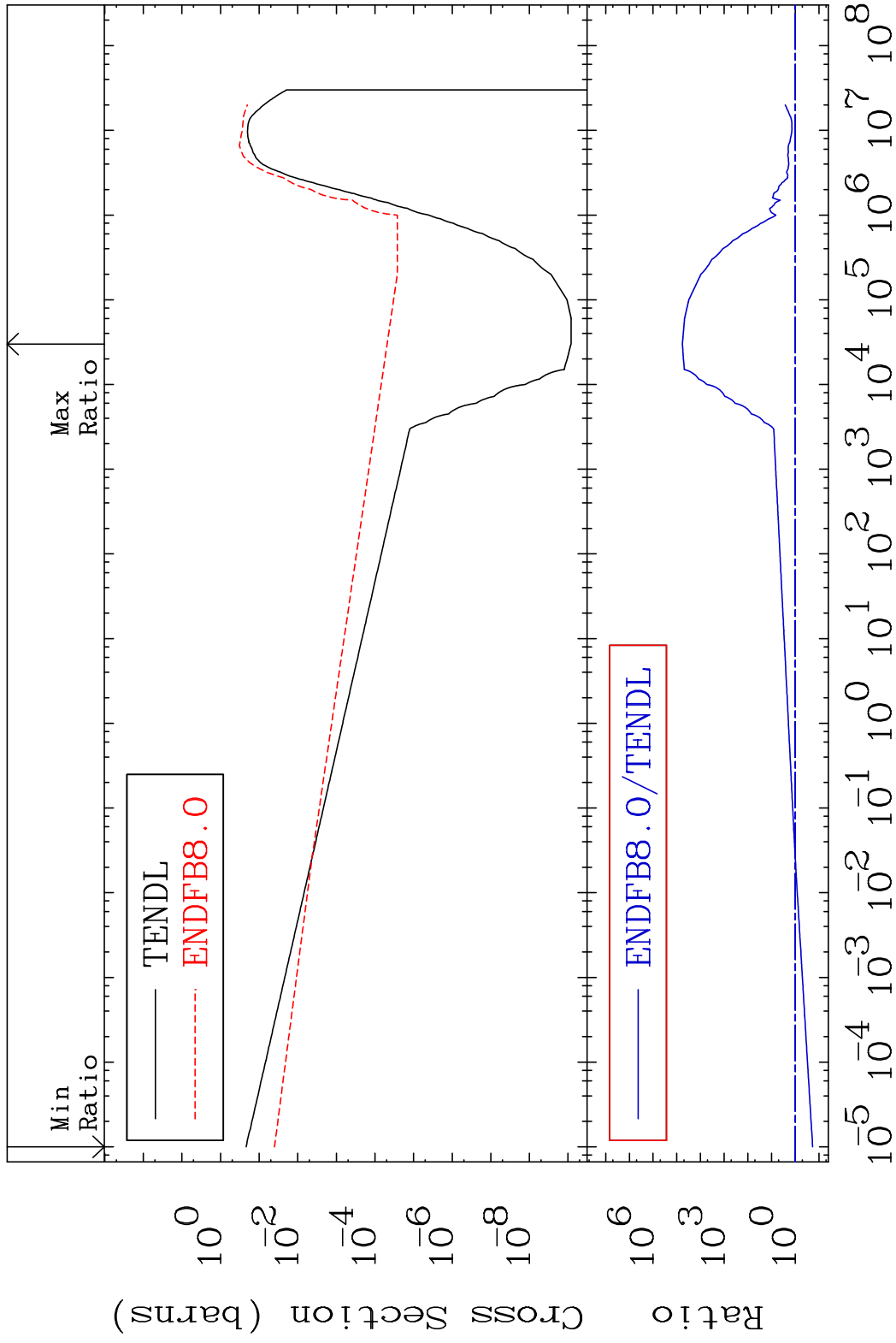
19-K -39

MAT 1925

(n, α)

19-K -39

Cross Section -81.51 To 9999. %



14

Incident Energy (eV)

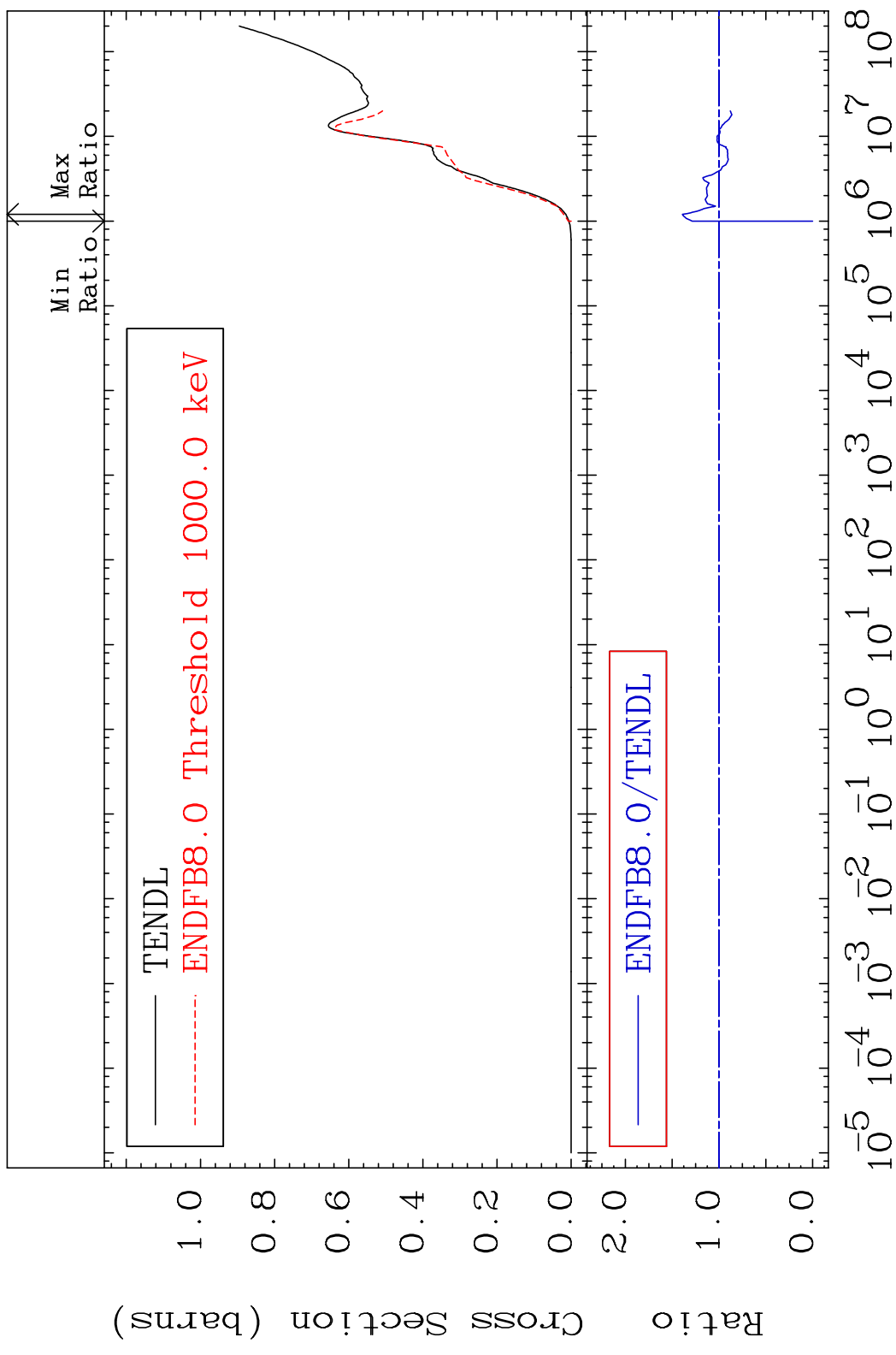
19-K -39

MAT 1925

Hydrogen Production

19-K -39

Cross Section -100.0 To 39.11 %



15

Incident Energy (eV)

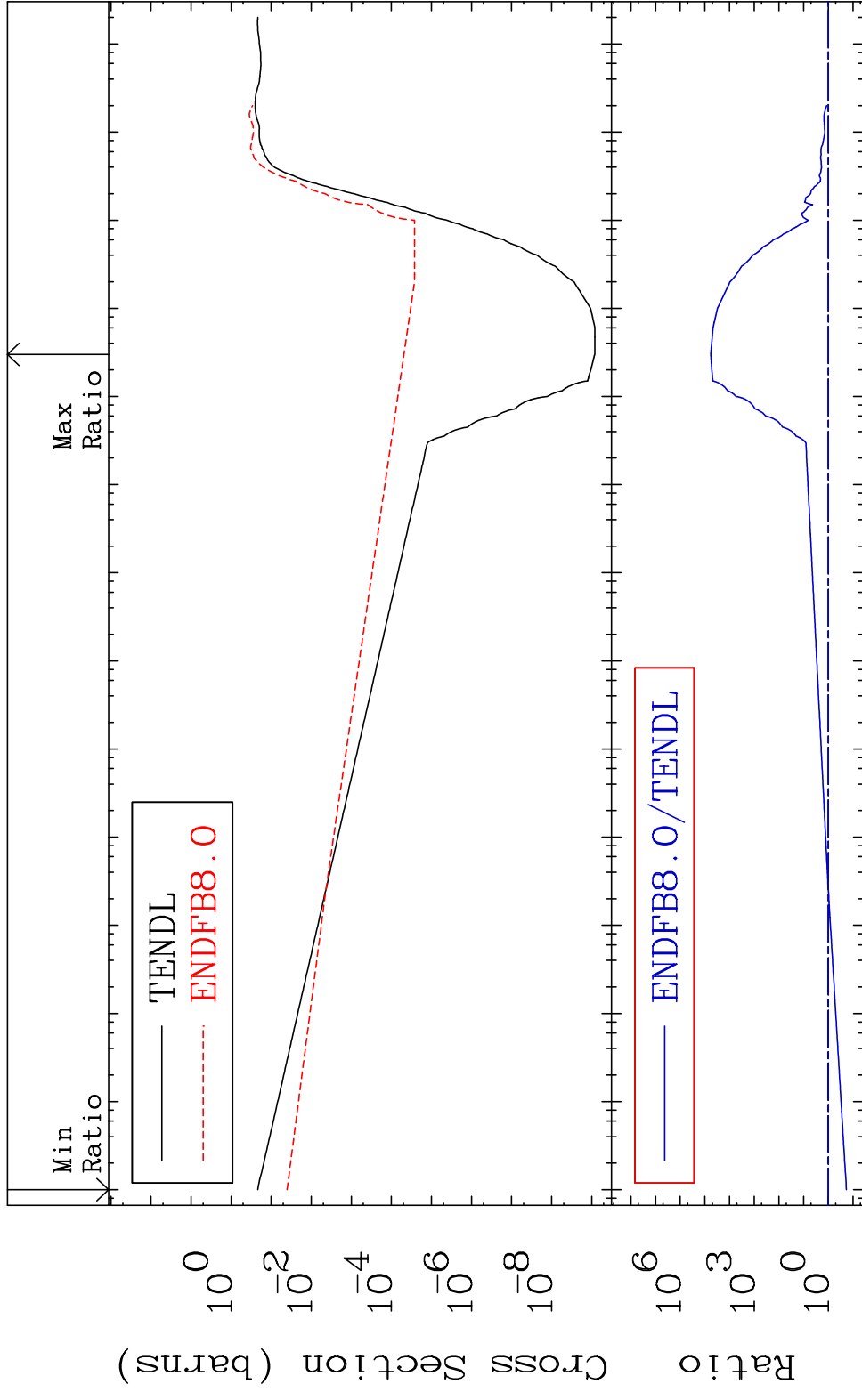
19-K -39

MAT 1925

He-4 Production

19-K -39

Cross Section -81.51 To 9999. %



Min Ratio

Max Ratio

— TENDL
- - - ENDFB8.0

— ENDFB8.0/TENDL

Cross Section (barns)
Ratio

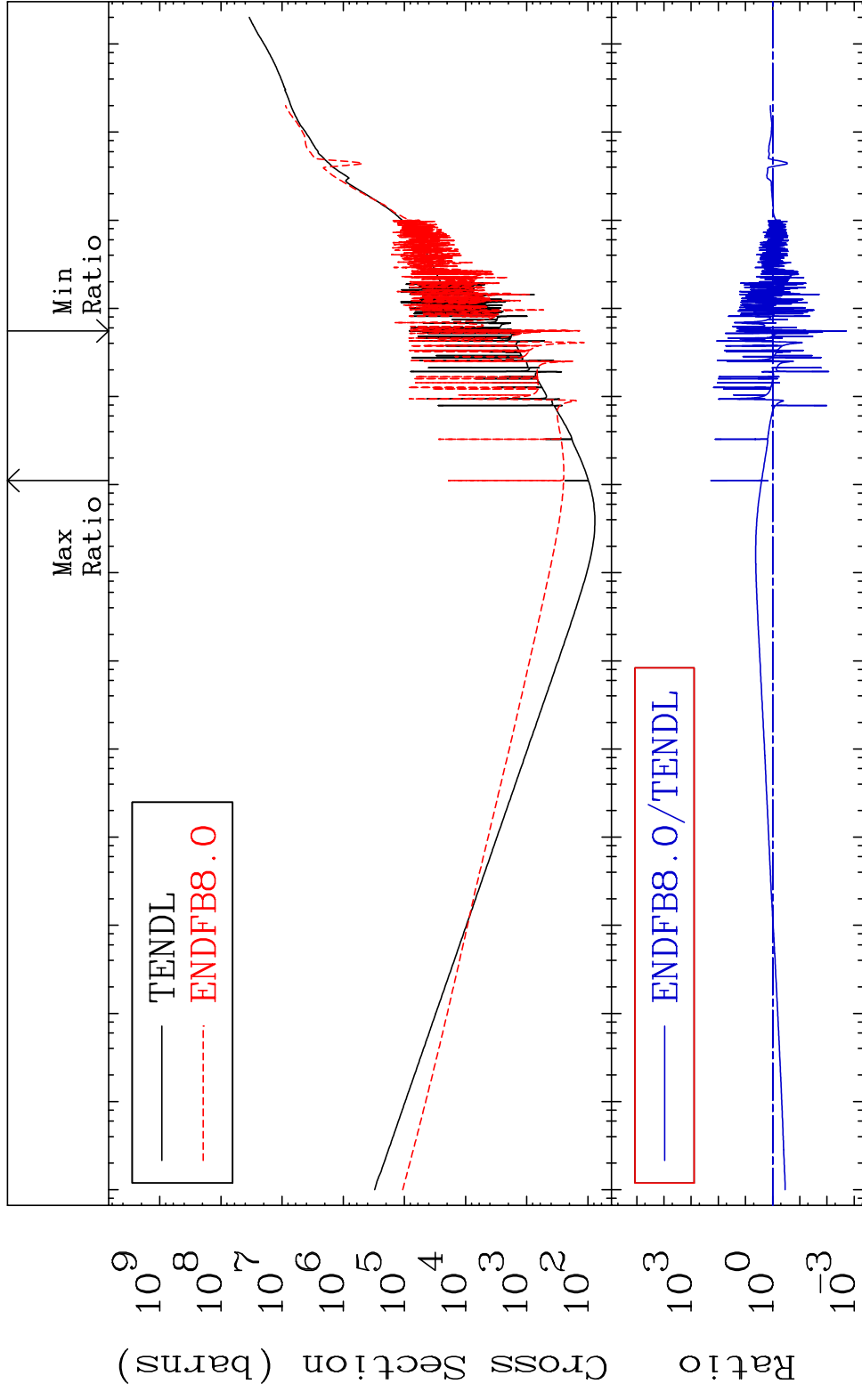
10⁰ 10⁻² 10⁻⁴ 10⁻⁶ 10⁻⁸ 10⁶ 10³ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

16

Incident Energy (eV)

19-K -39

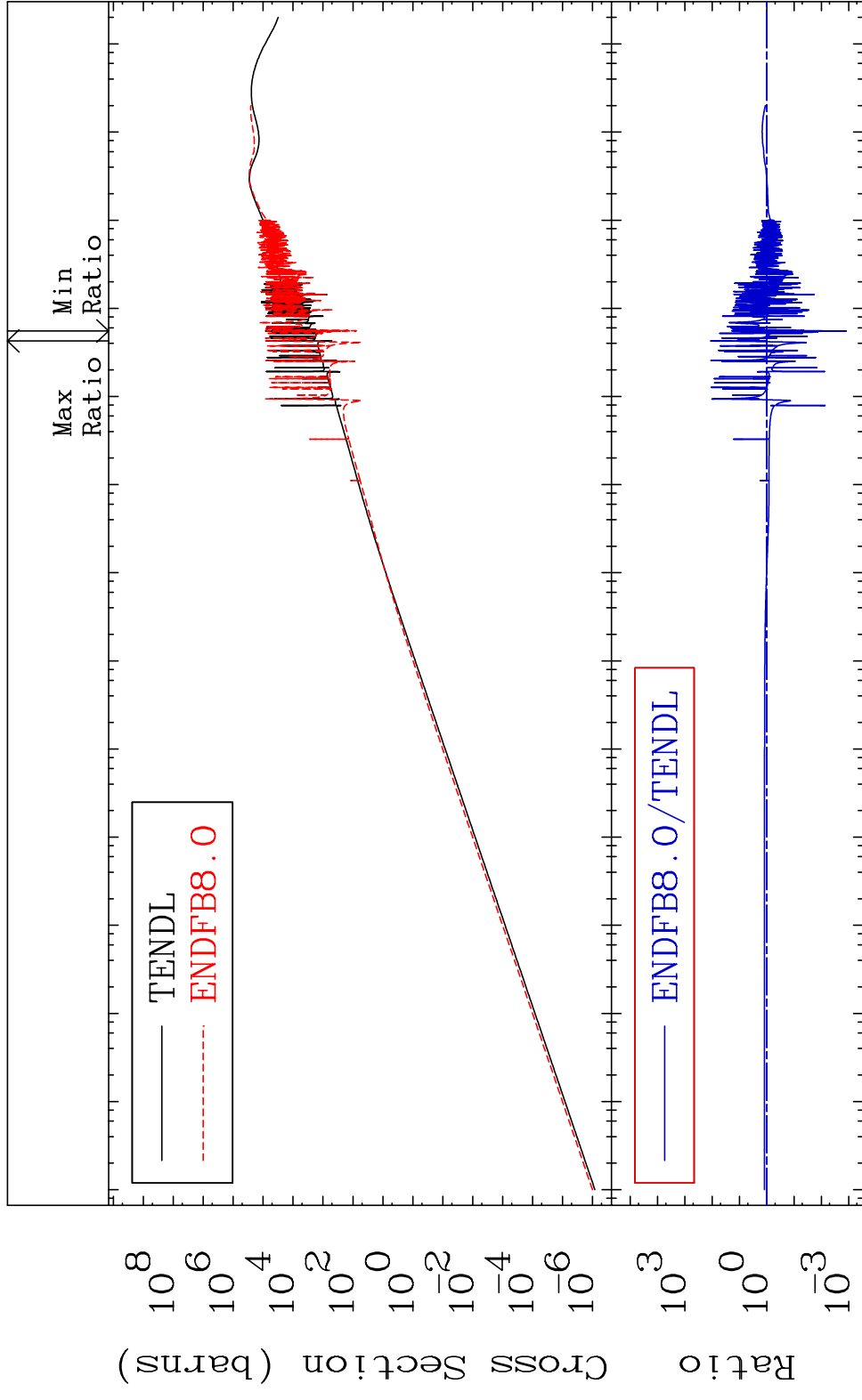
MAT 1925 Kerma total (eV-barns) 19-K -39
 Cross Section -99.81 To 9999. %



MAT 1925

Kerma elastic
Cross Section

19-K -39
-99.88 To 9999. %

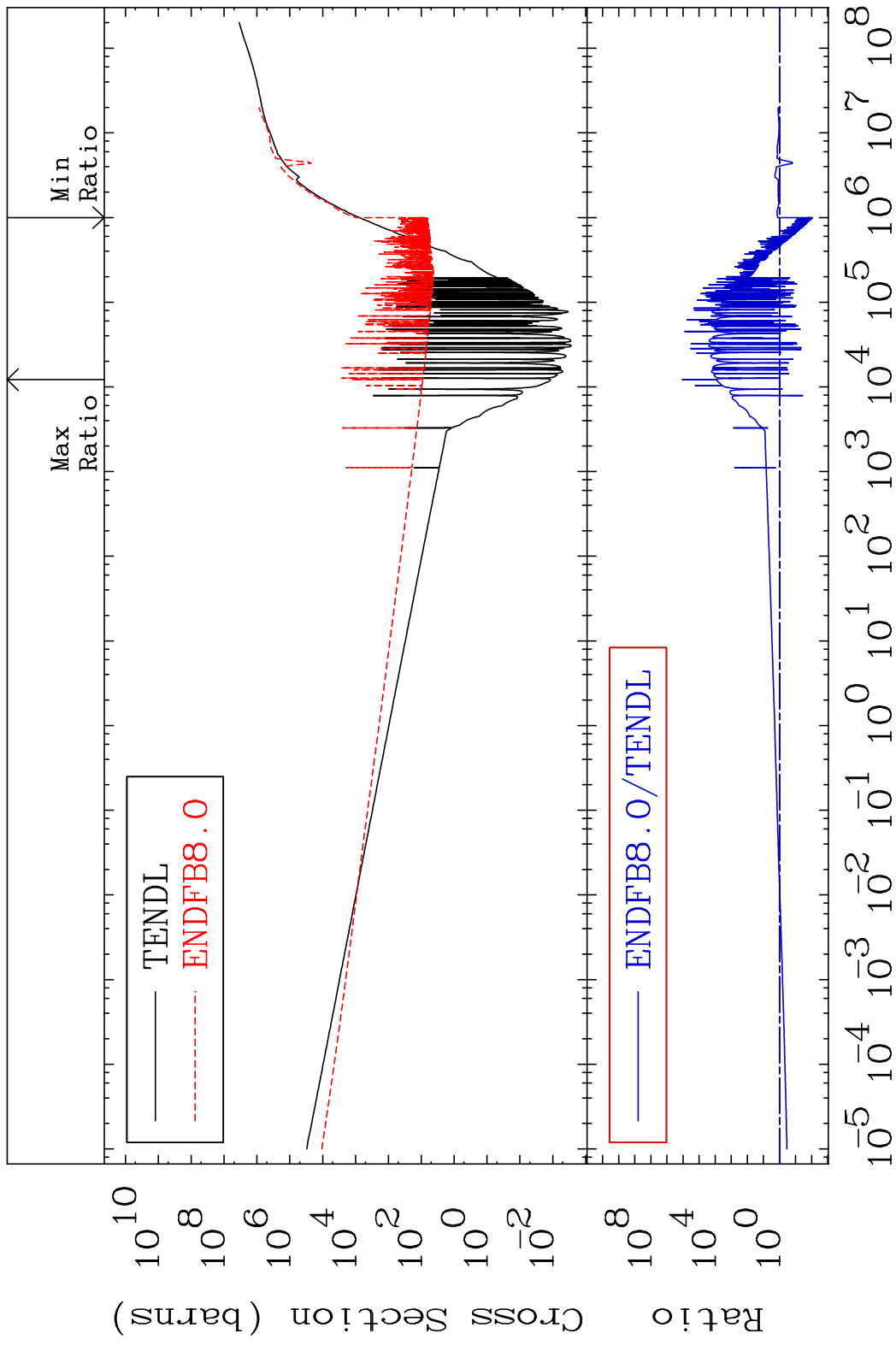


18

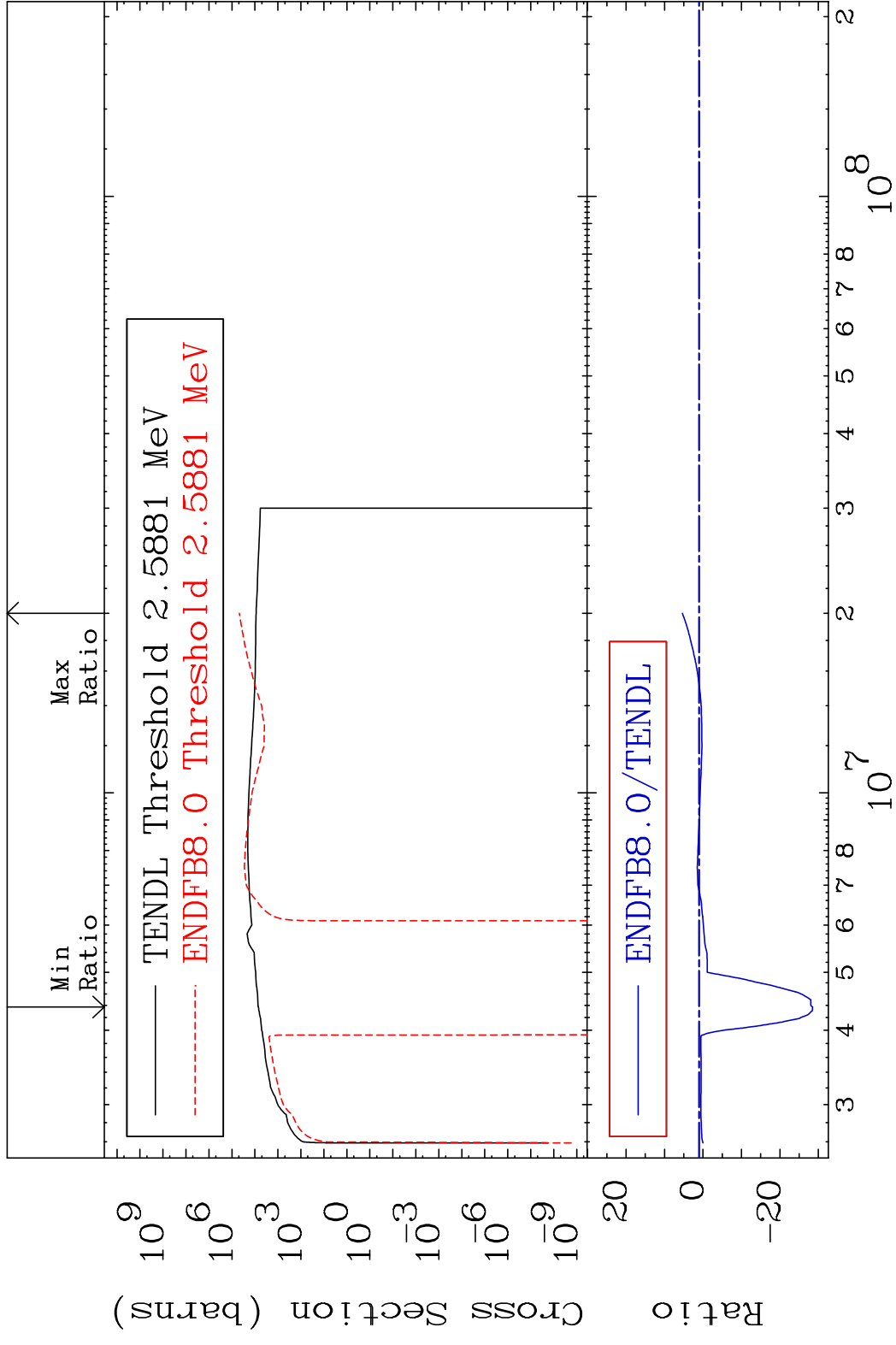
Incident Energy (eV)

19-K -39

MAT 1925 Kerma non-elastic (all but mt2) 19-K -39
 Cross Section -99.12 To 9999. %

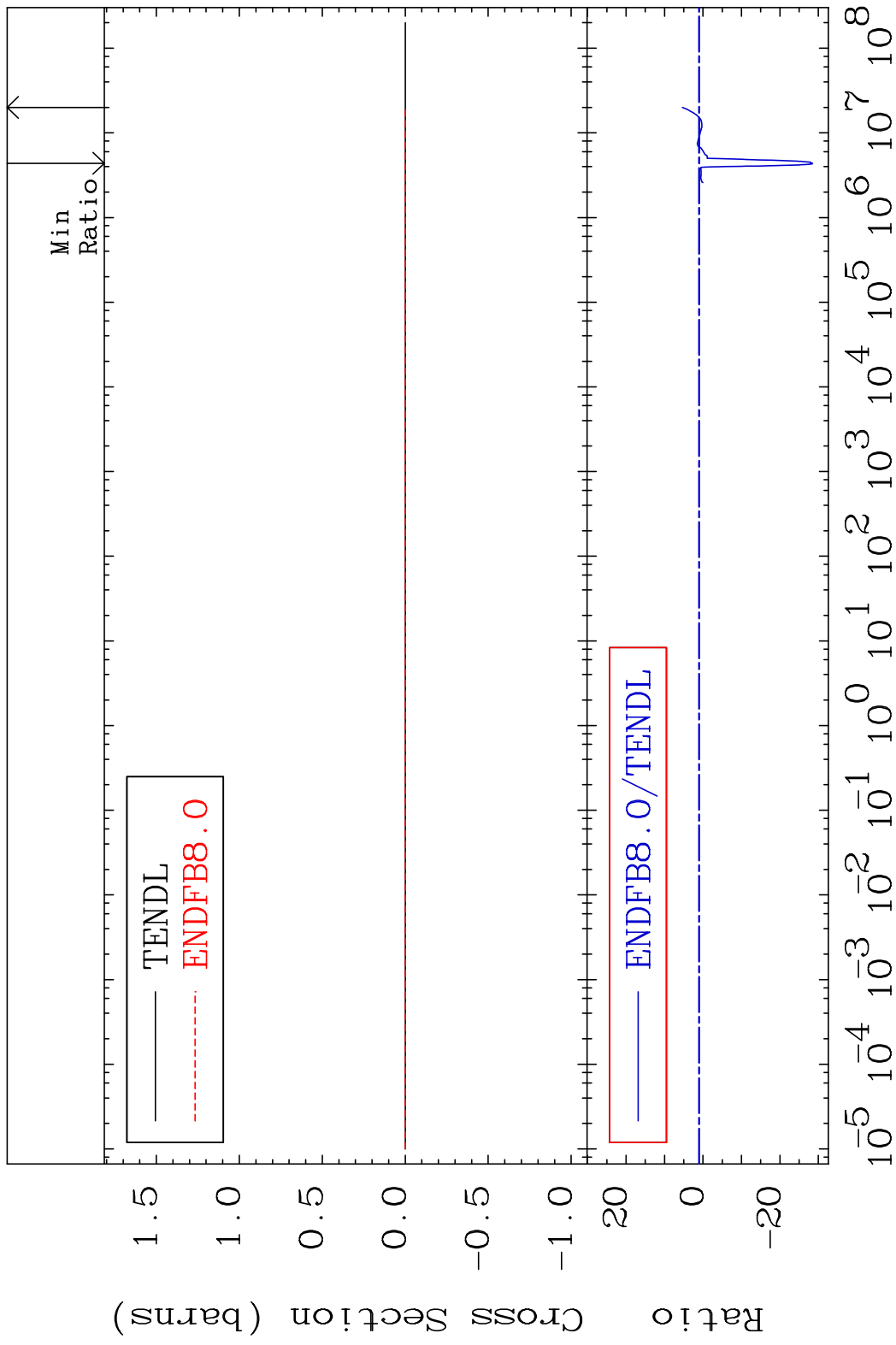


MAT 1925 Kerma inelastic (mt51-91) 19-K -39
 Cross Section -2949. To 436.0 %

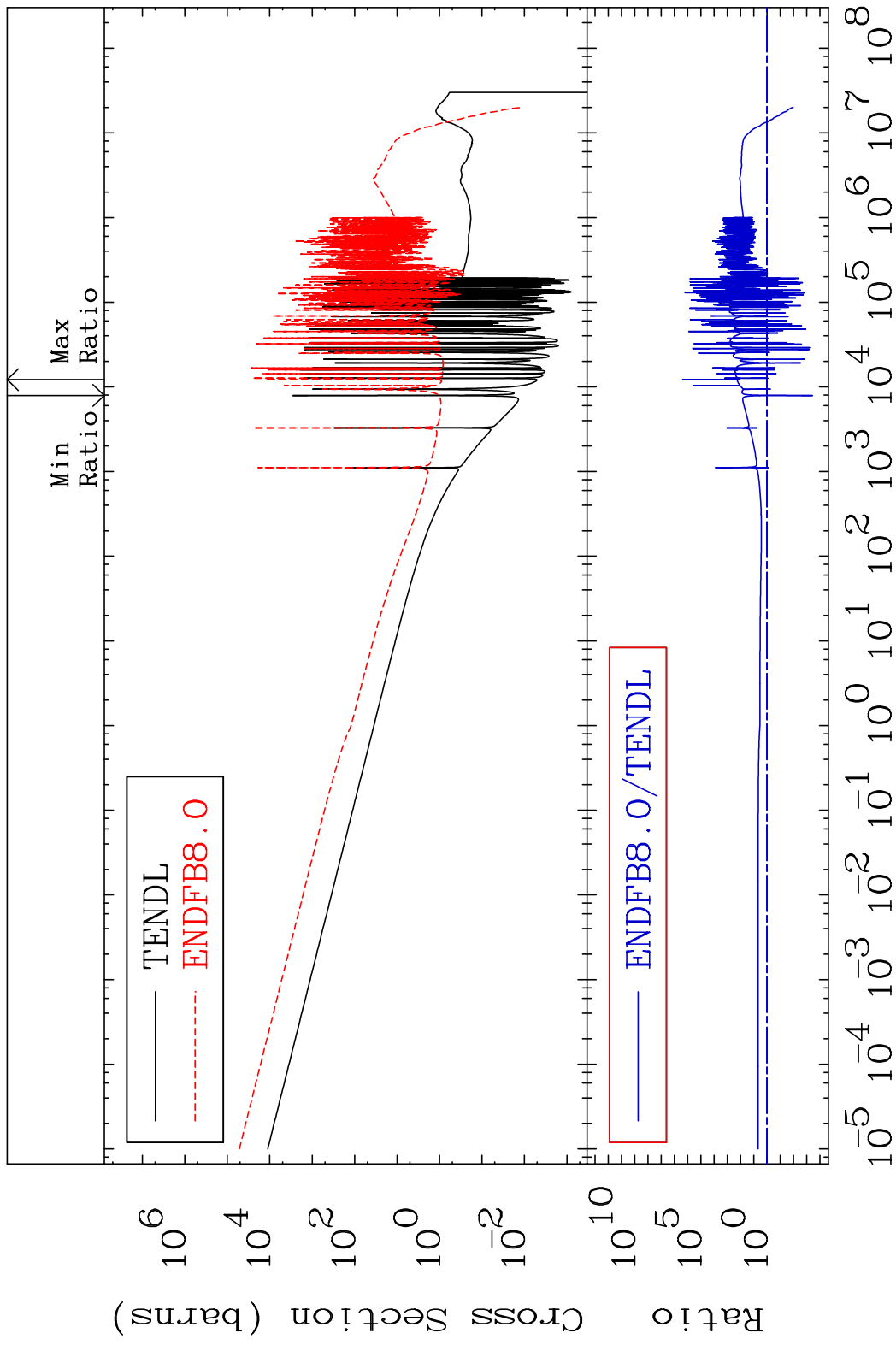


20 Incident Energy (eV) 19-K -39

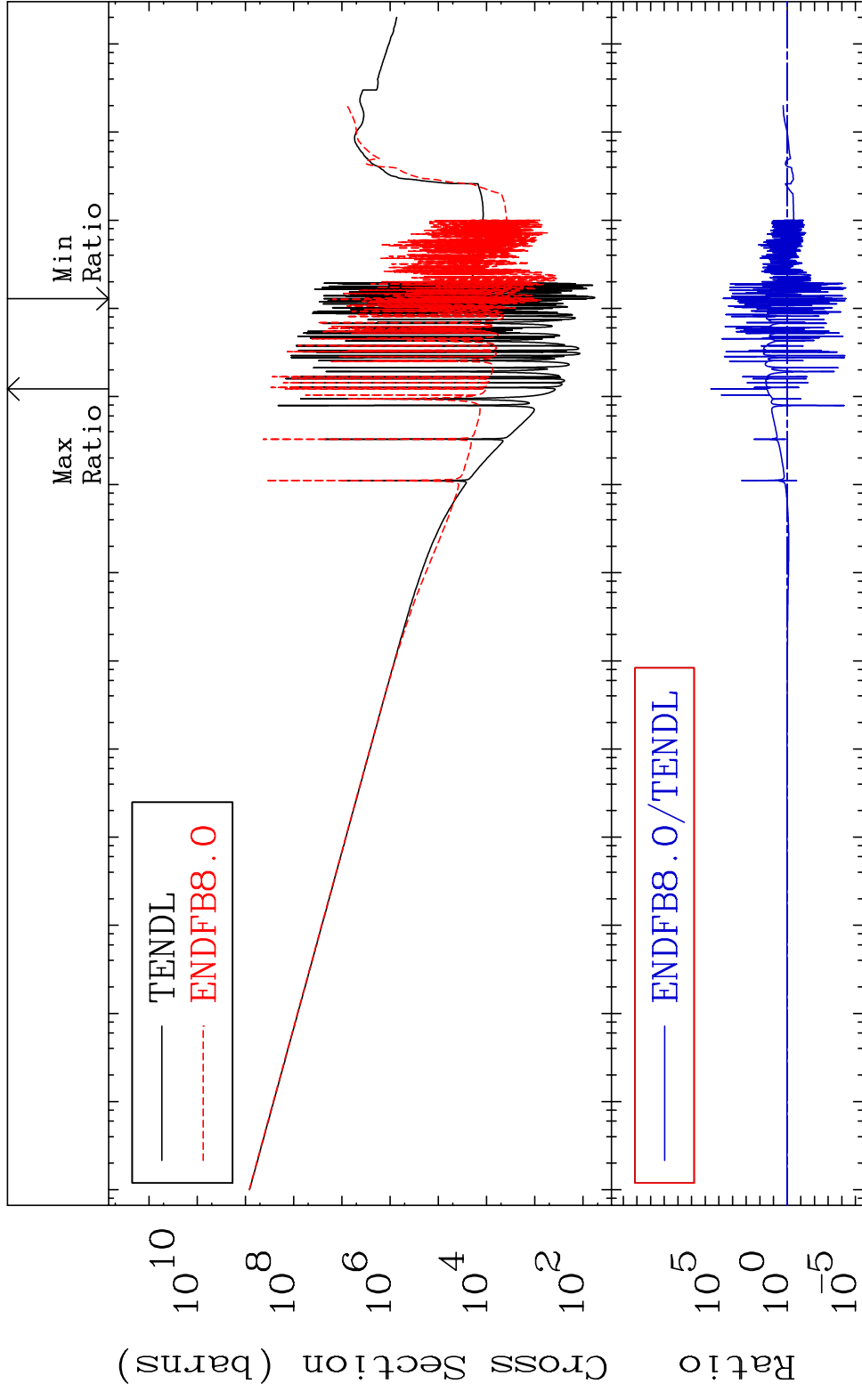
MAT 1925 Kerma fission (mt18 or mt19-20-21-38) 19-K -39
 Cross Section -2949. To 436.0 %



MAT 1925 Kerma capture (mt102) 19-K -39
 Cross Section -99.96 To 9999. %

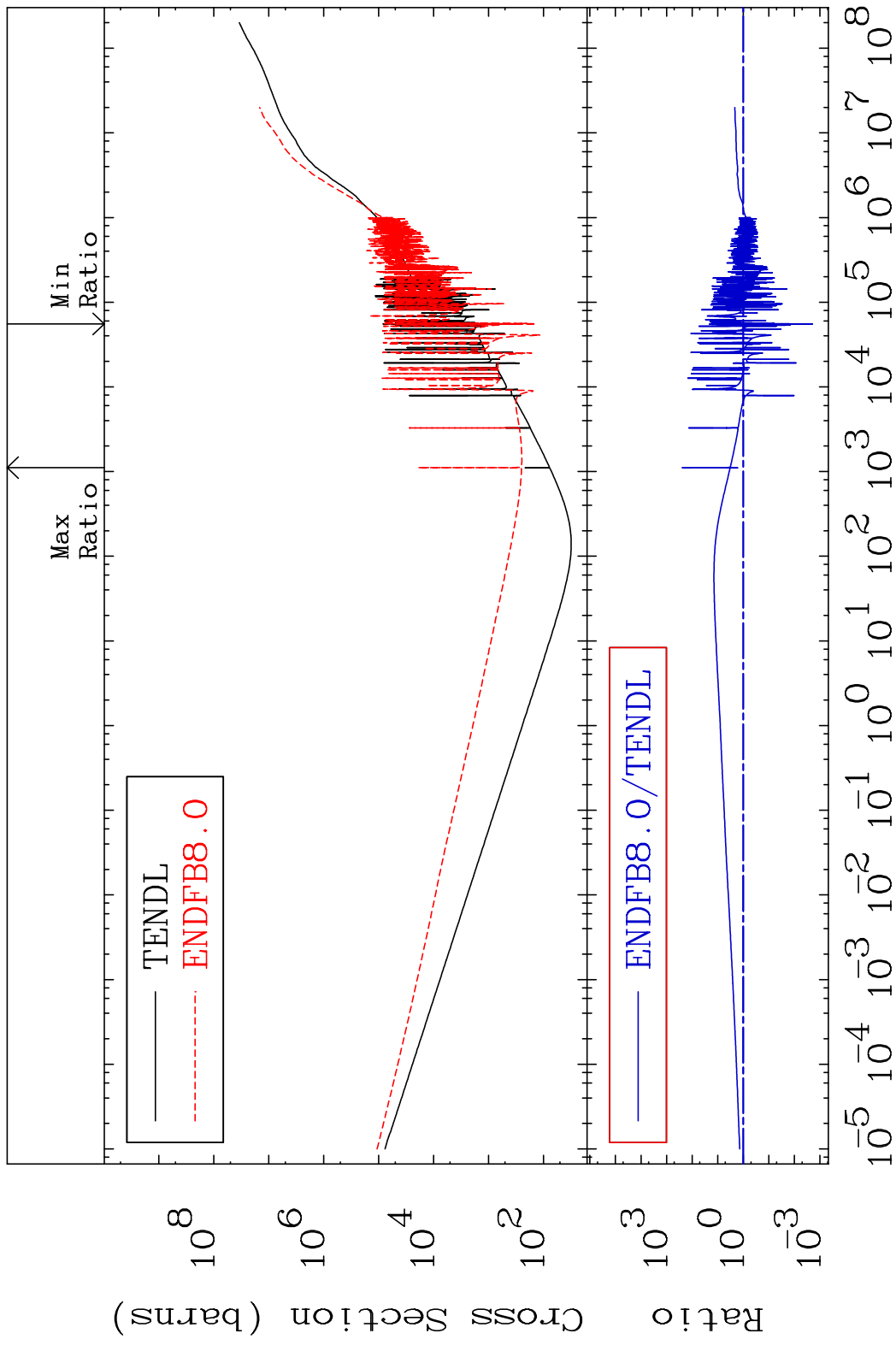


MAT 1925 Total photon (eV-barns) 19-K -39
 Cross Section -100.0 To 9999. %

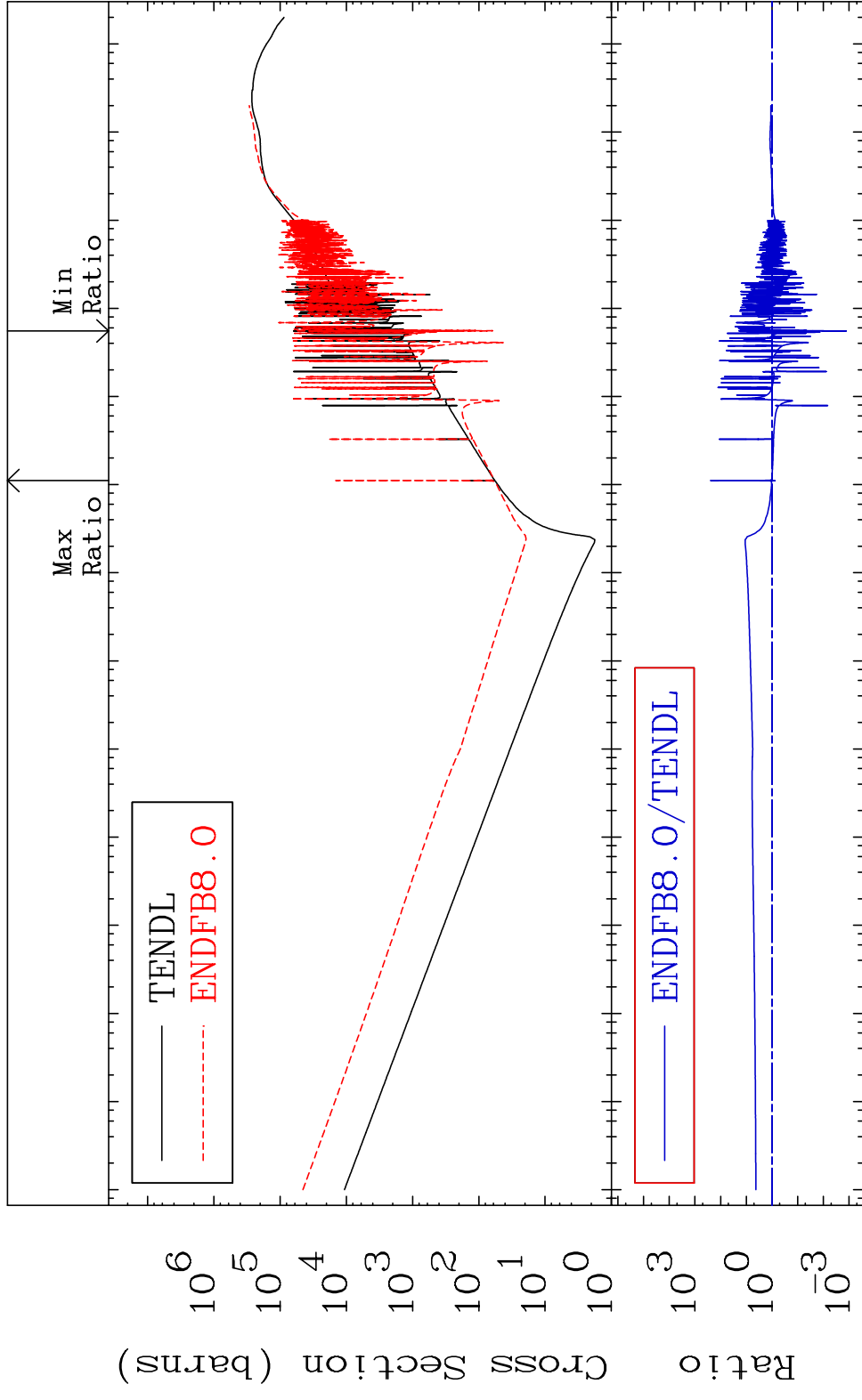


23 Incident Energy (eV) 19-K -39

MAT 1925 Total kinematic kerma (high limit) 19-K -39
 Cross Section -99.81 To 9999. %



MAT 1925 Dpa total (eV-barns) 19-K -39
 Cross Section -99.87 To 9999. %

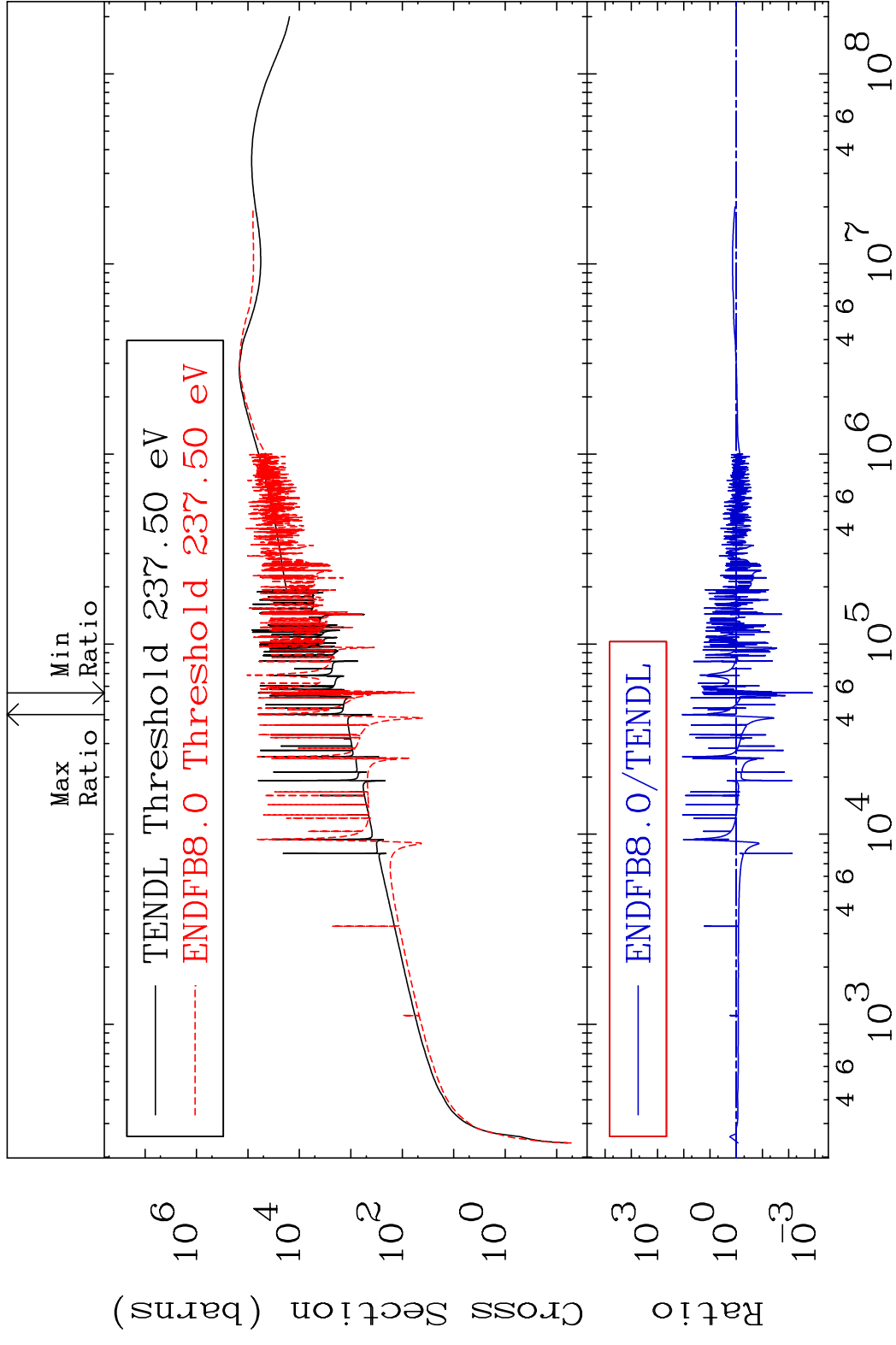


MAT 1925

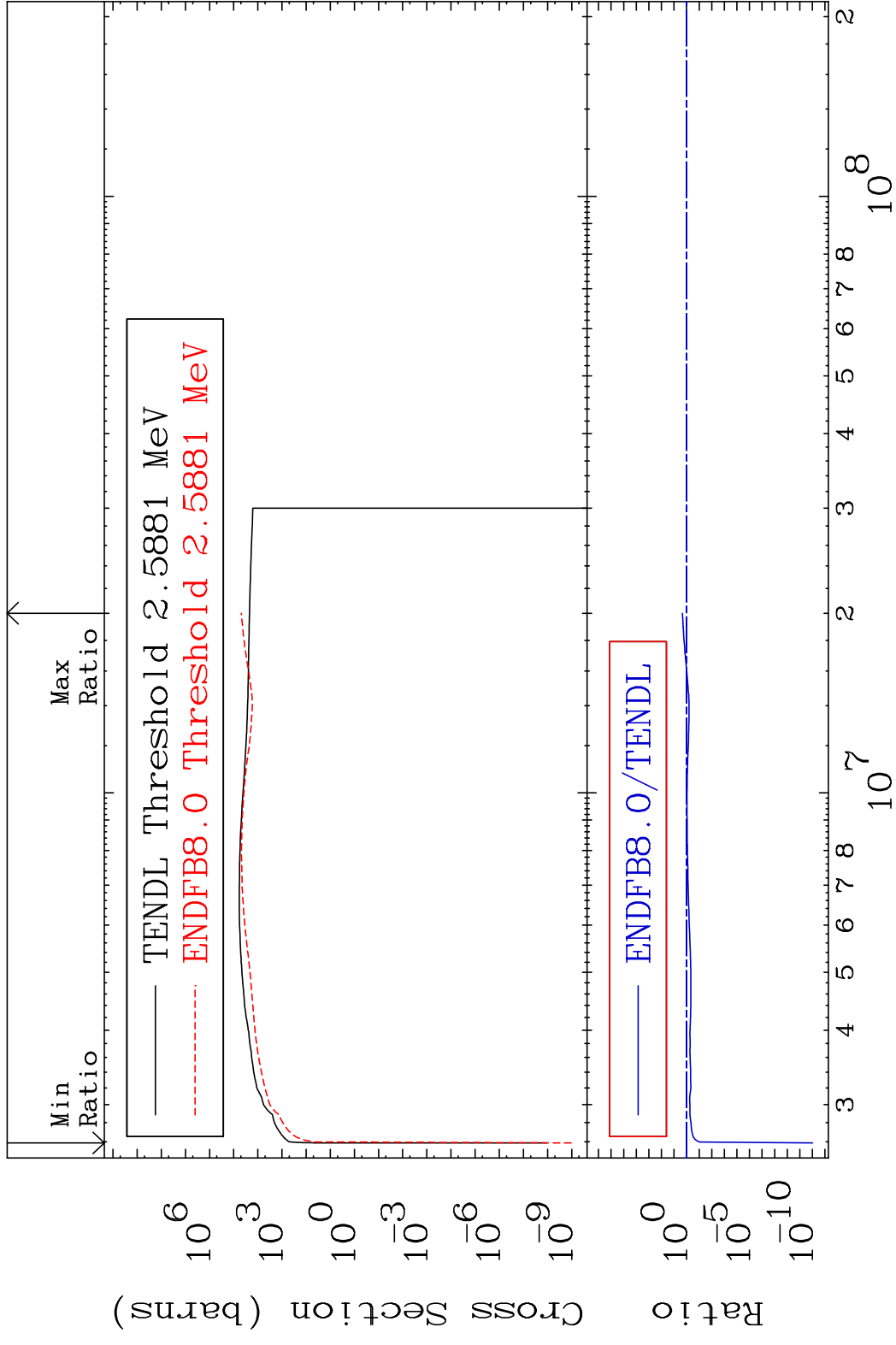
Dpa elastic (mt2)

19-K -39

Cross Section -99.88 To 9999. %



MAT 1925 Dpa inelastic (mt51-91) 19-K -39
 Cross Section -100.0 To 117.4 %



MAT 1925 Dpa disappearance (mt102 -120) 19-K -39
 Cross Section -99.76 To 9999. %

