

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

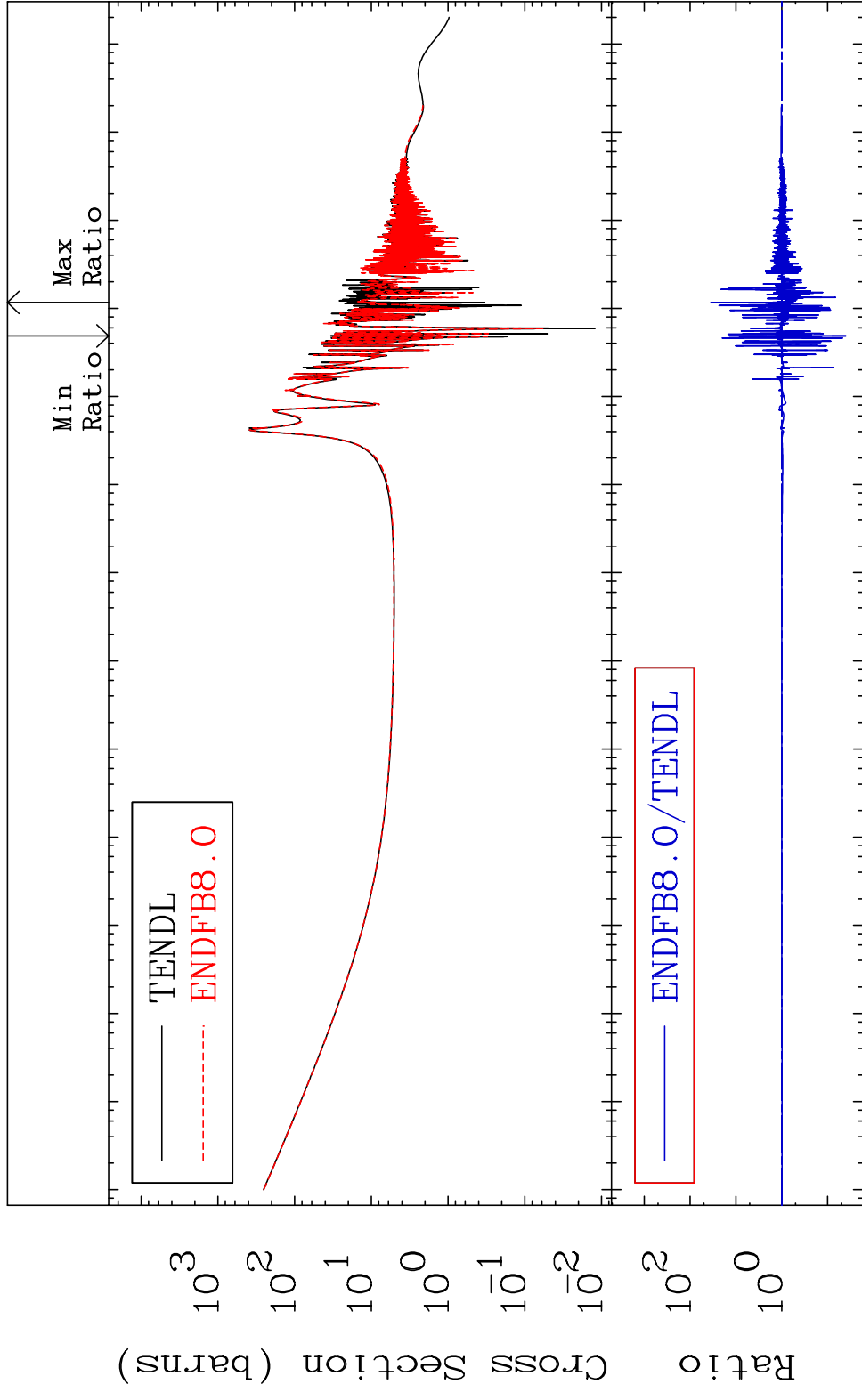
MAT 2328

Total

23-V -51

Cross Section

-96.08 To 3450. %



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

1

Incident Energy (eV)

23-V -51

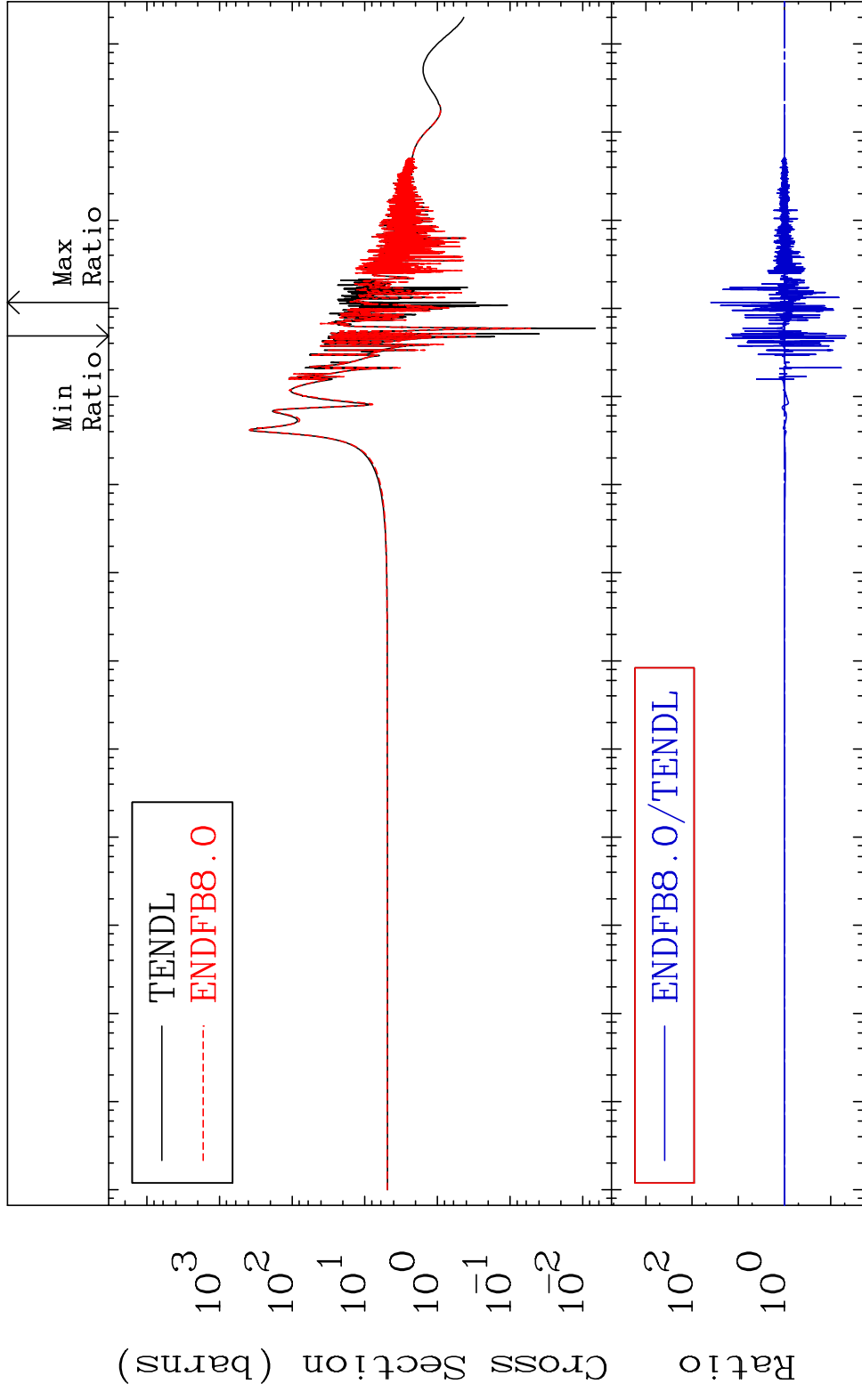
MAT 2328

Elastic

23-V -51

Cross Section

-95.41 To 3842. %



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

2

Incident Energy (eV)

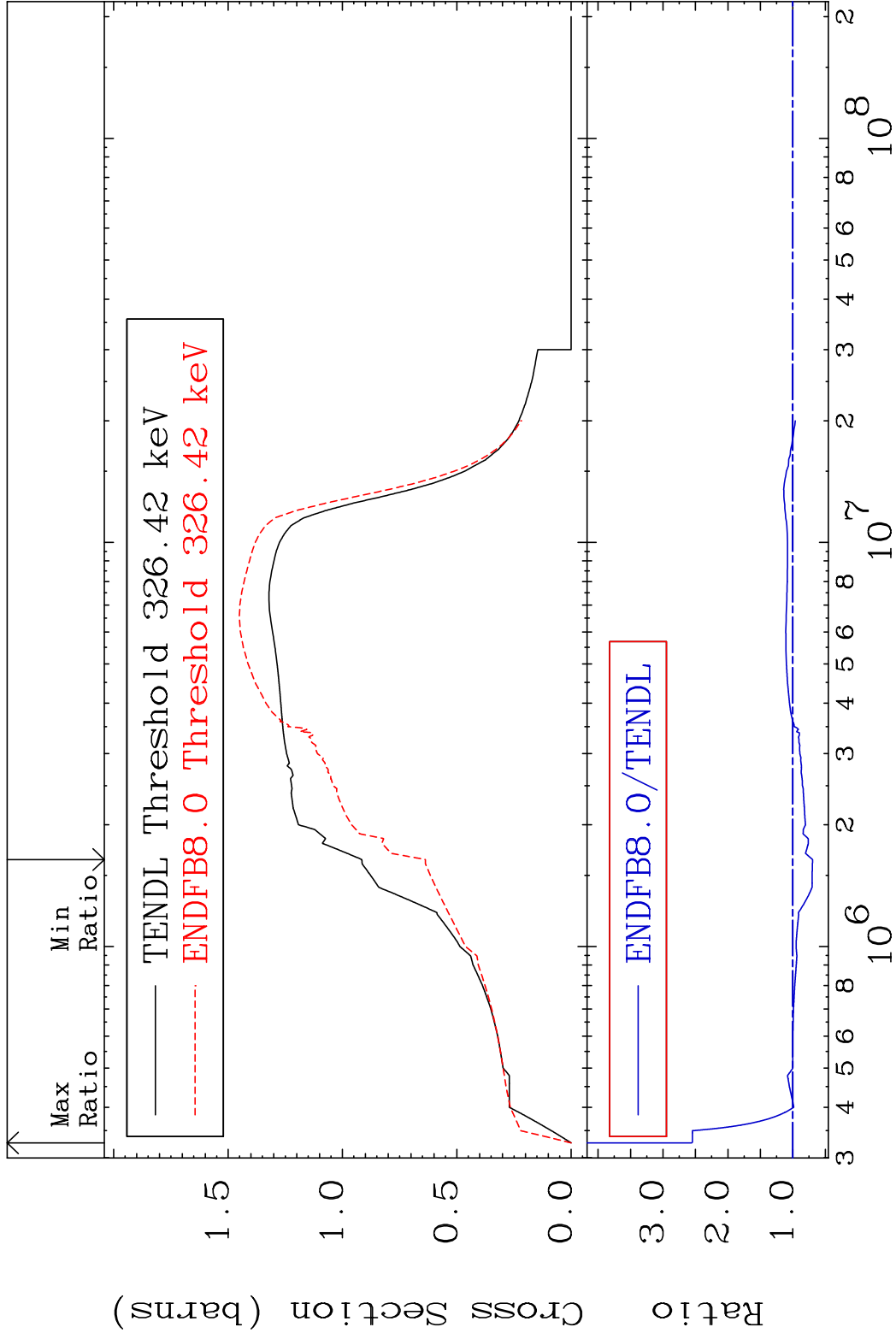
23-V -51

MAT 2328

Inelastic

23-V -51

Cross Section -30.42 To 170.2 %

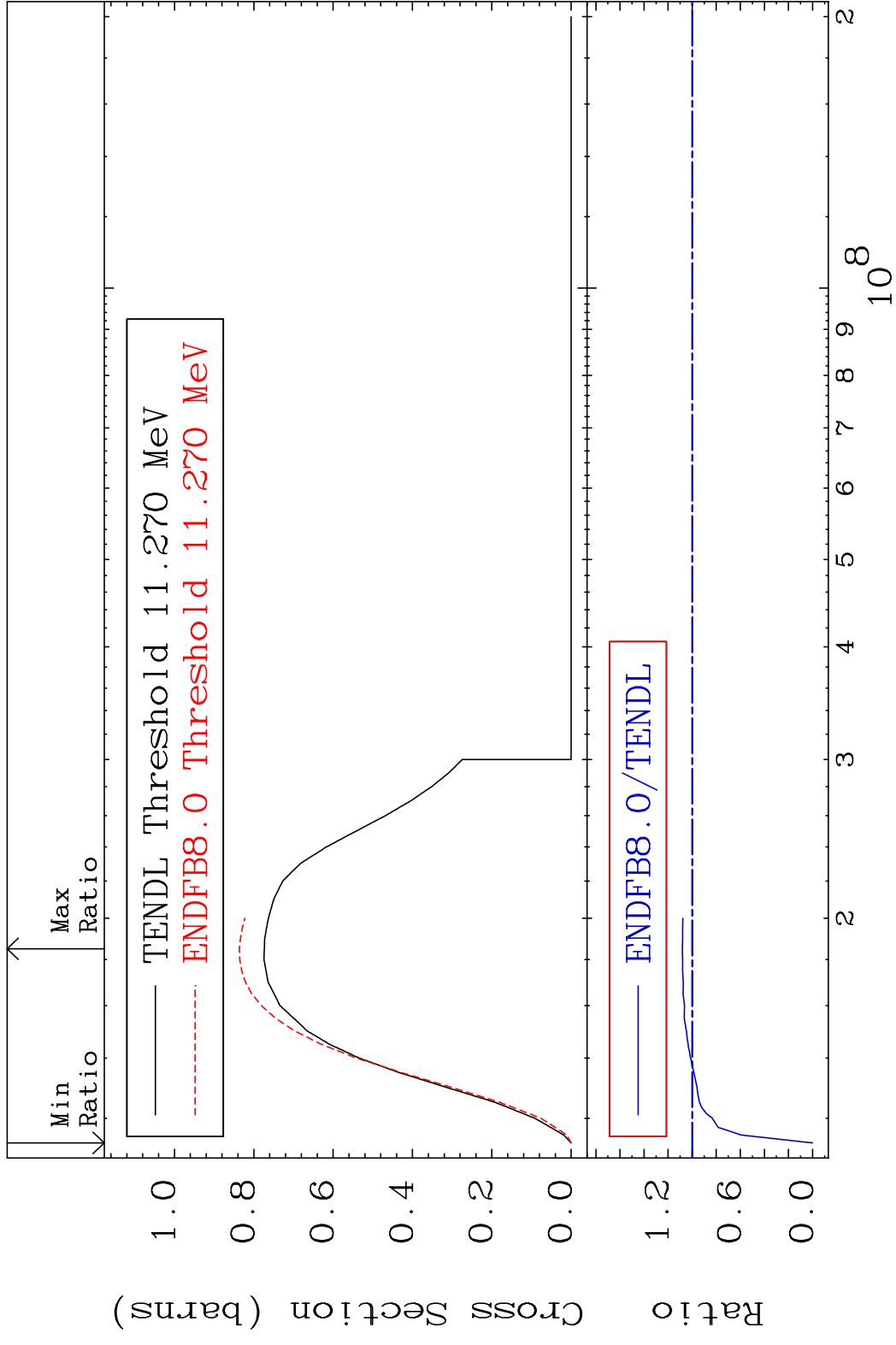


3

Incident Energy (eV)

23-V -51

MAT 2328 (n,2n) 23-V -51
 Cross Section -100.0 To 8.152 %

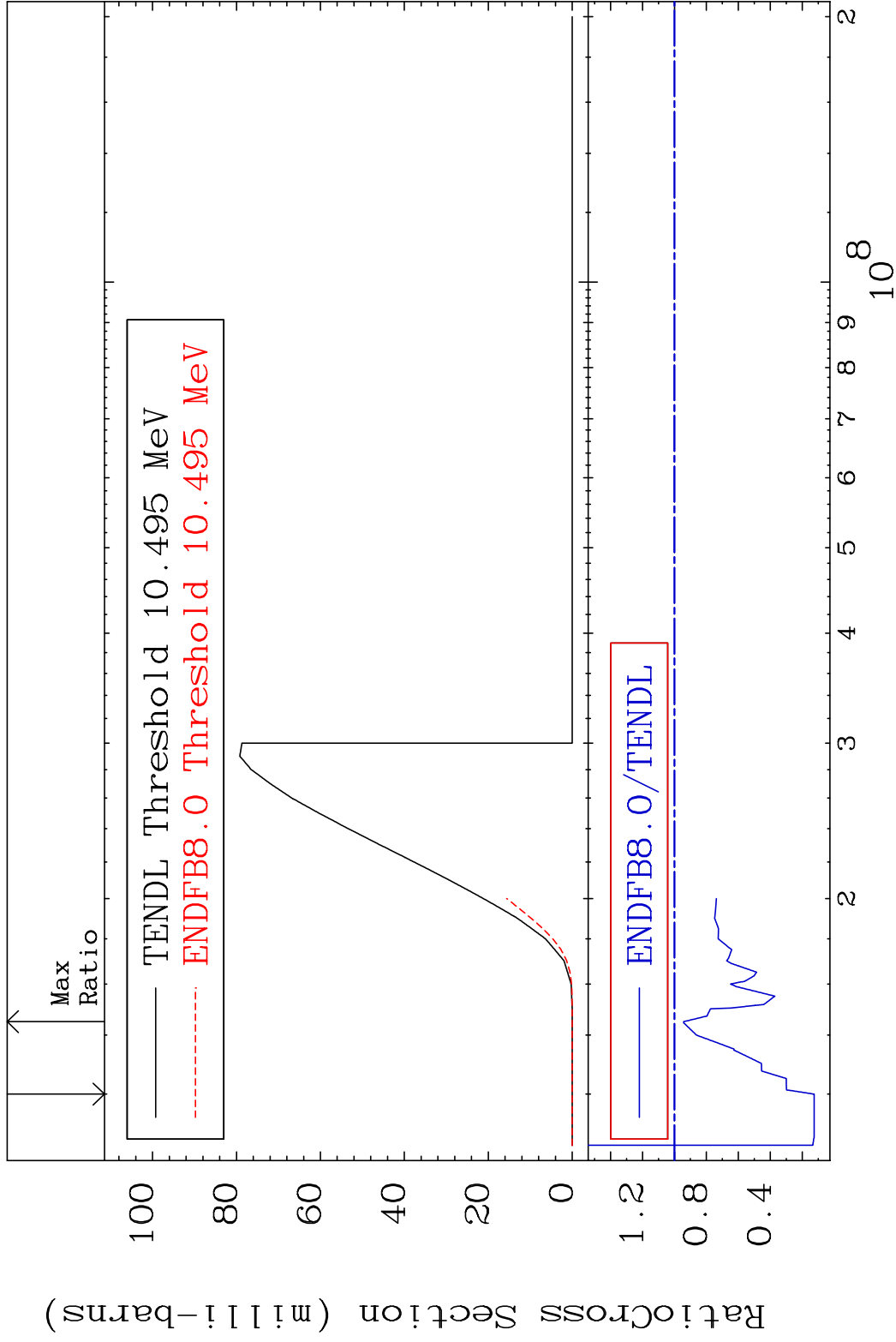


MAT 2328

(n, n') α

23-V -51

Cross Section -87.40 To -5.764%

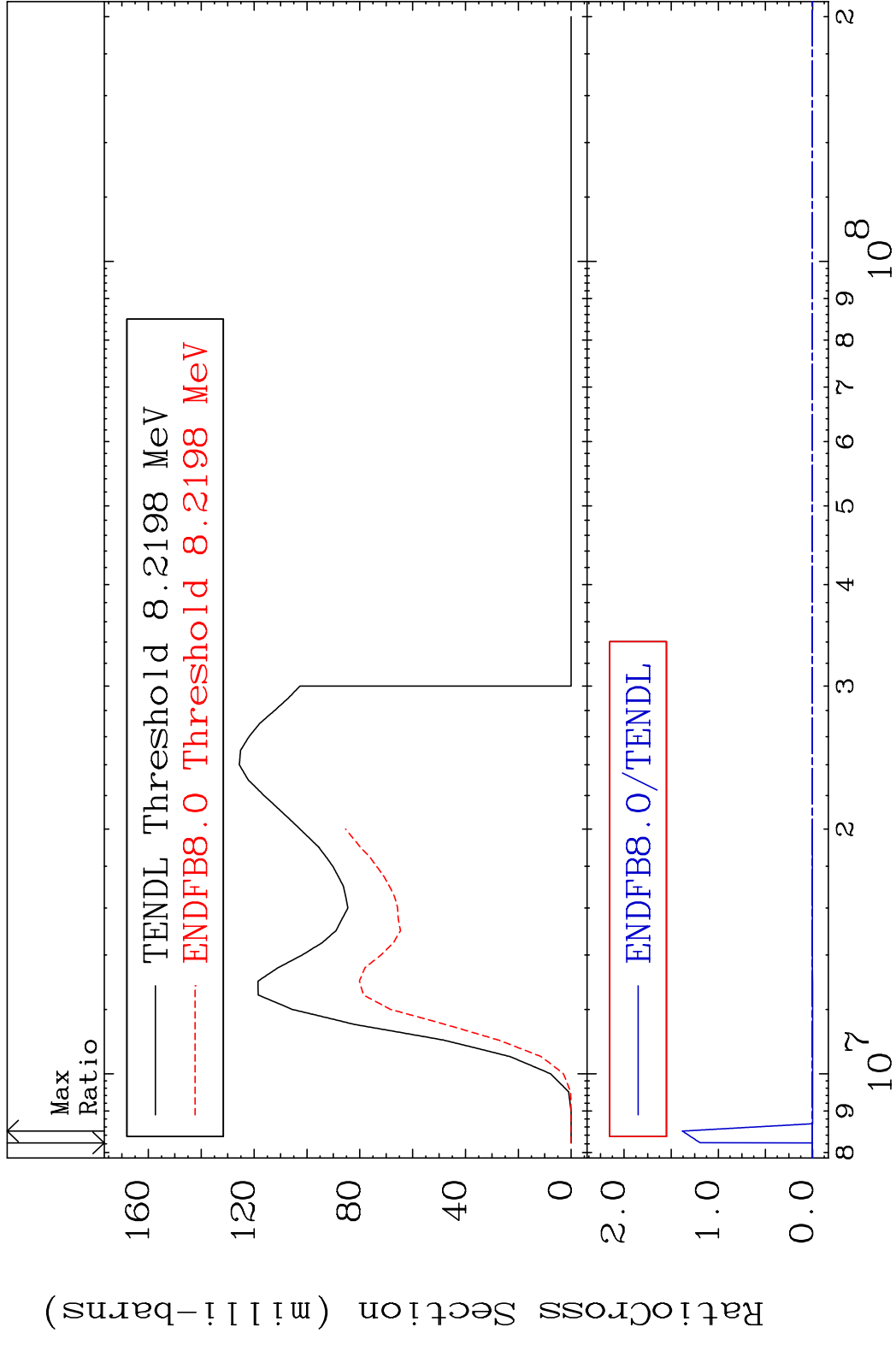


5

Incident Energy (eV)

23-V -51

MAT 2328 (n, n') p 23-V -51
 Cross Section -100.0 To 9999. %

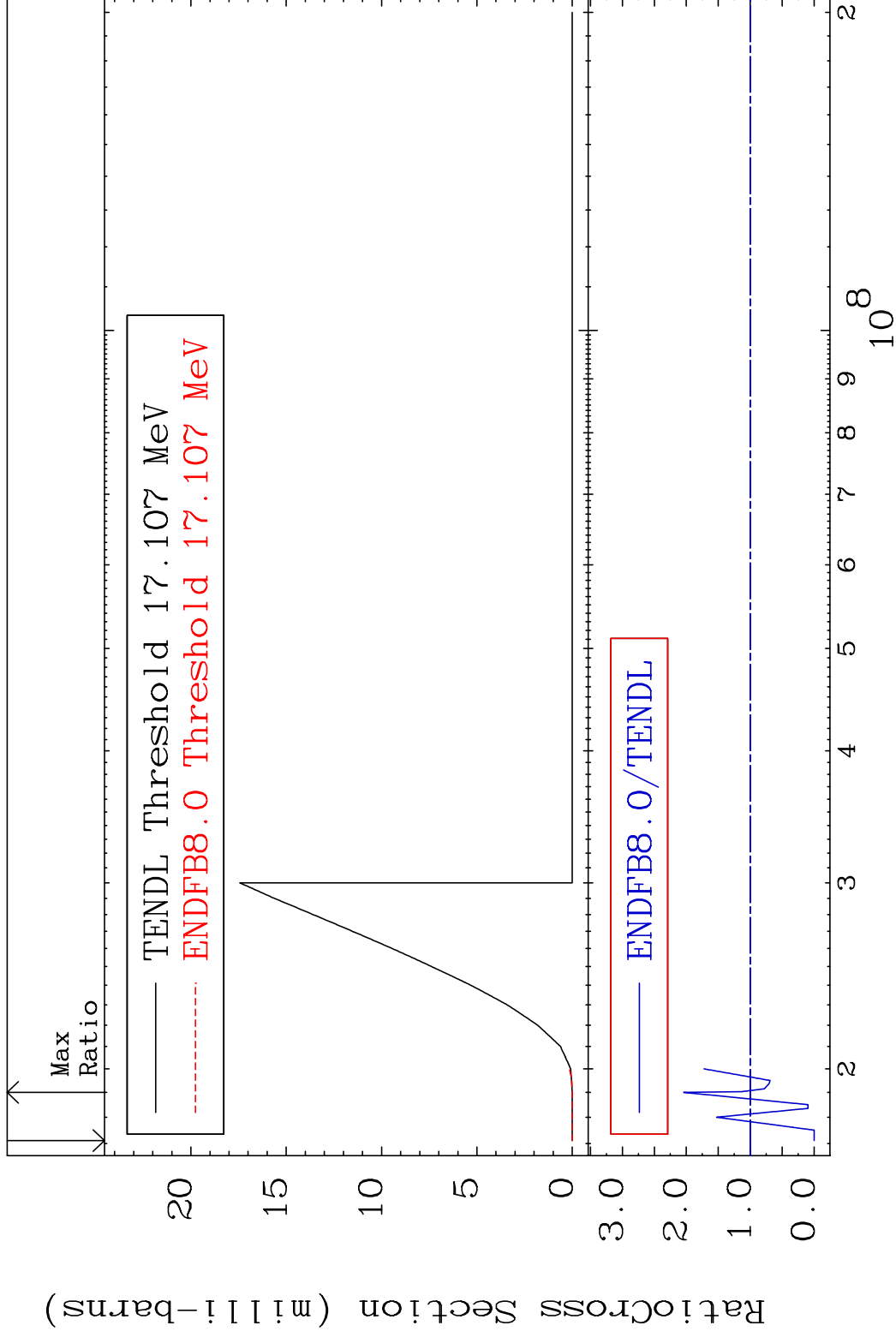


MAT 2328

(n, n') d

23-V -51

Cross Section -100.0 To 104.1 %

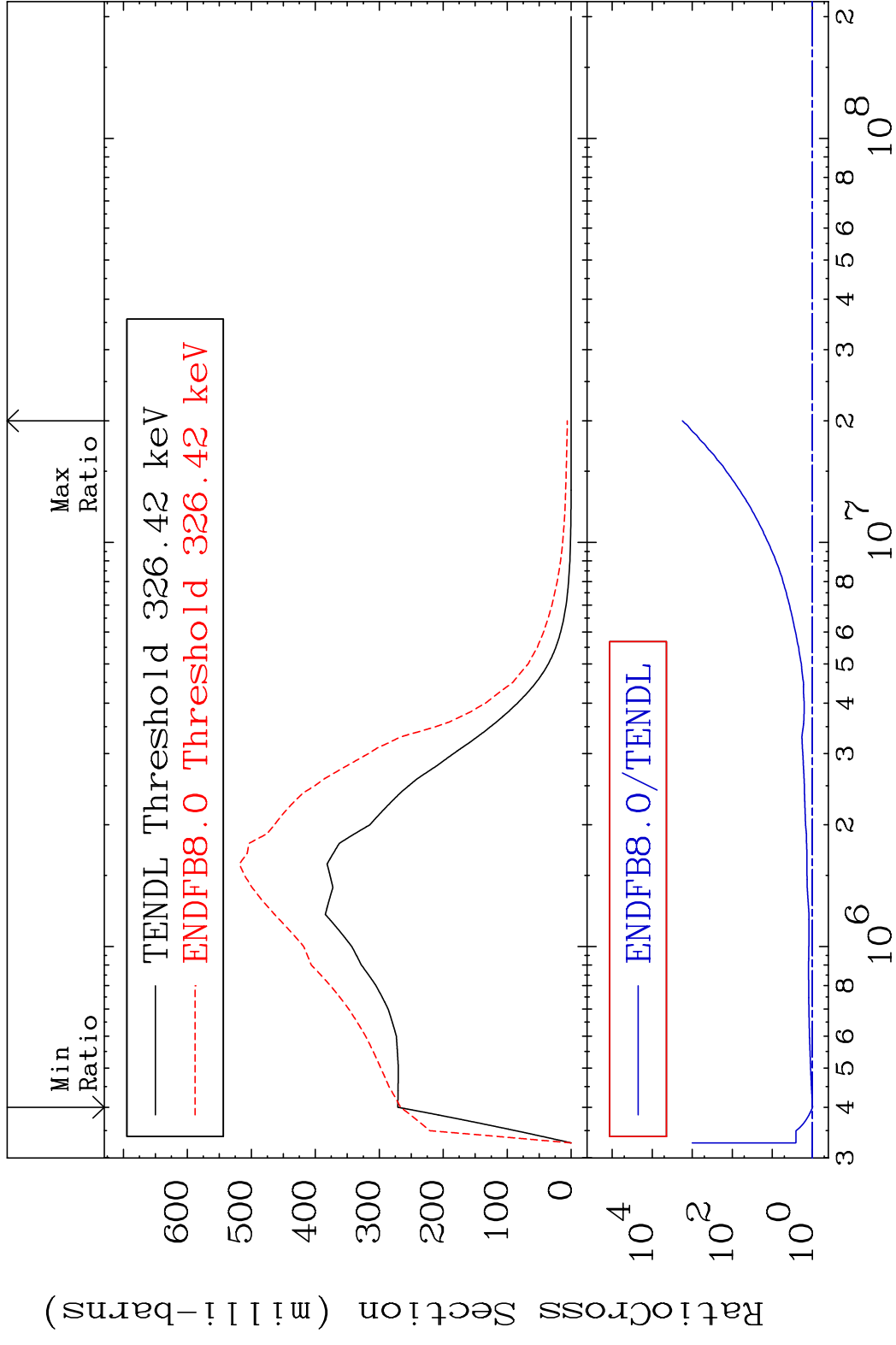


7

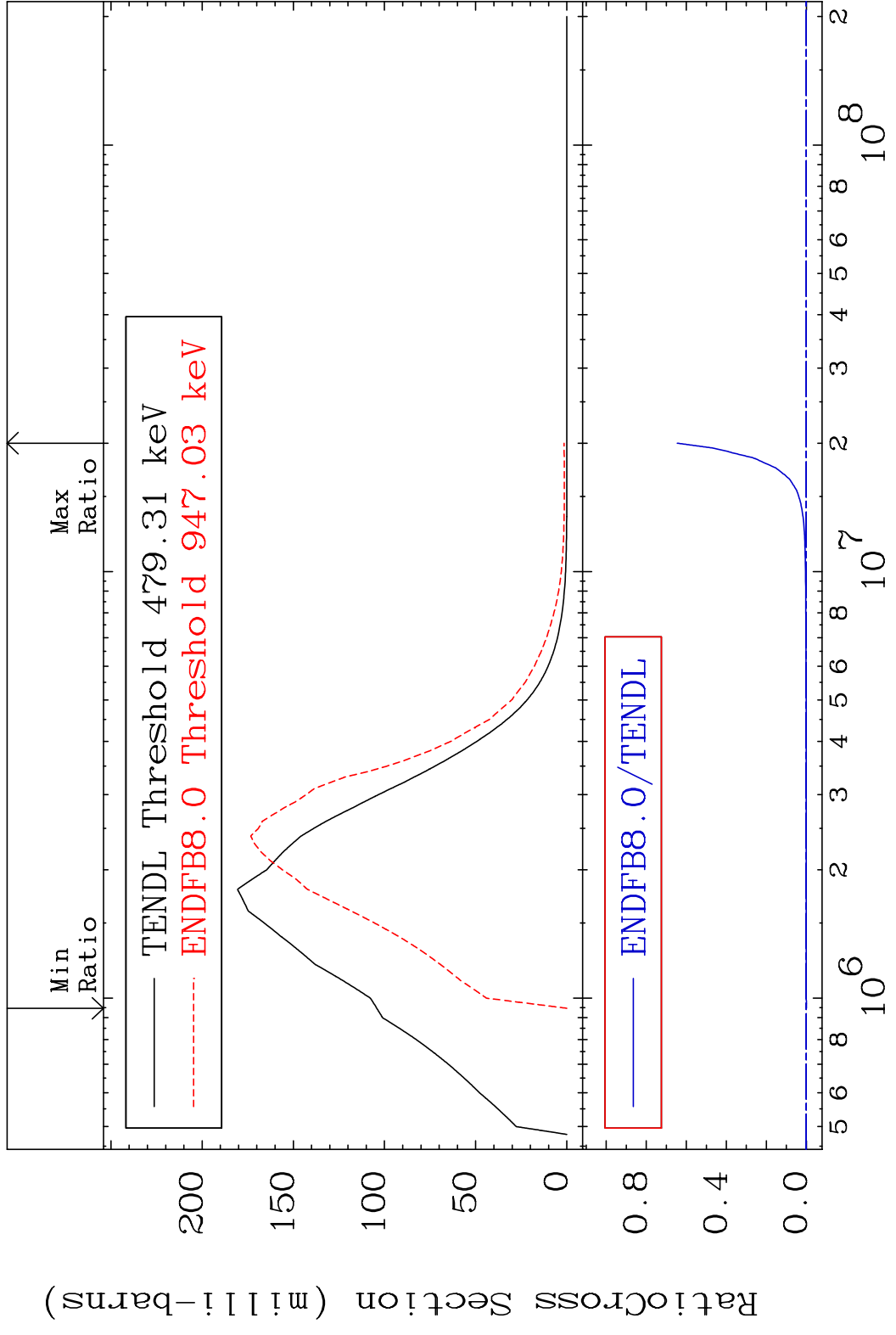
Incident Energy (eV)

23-V -51

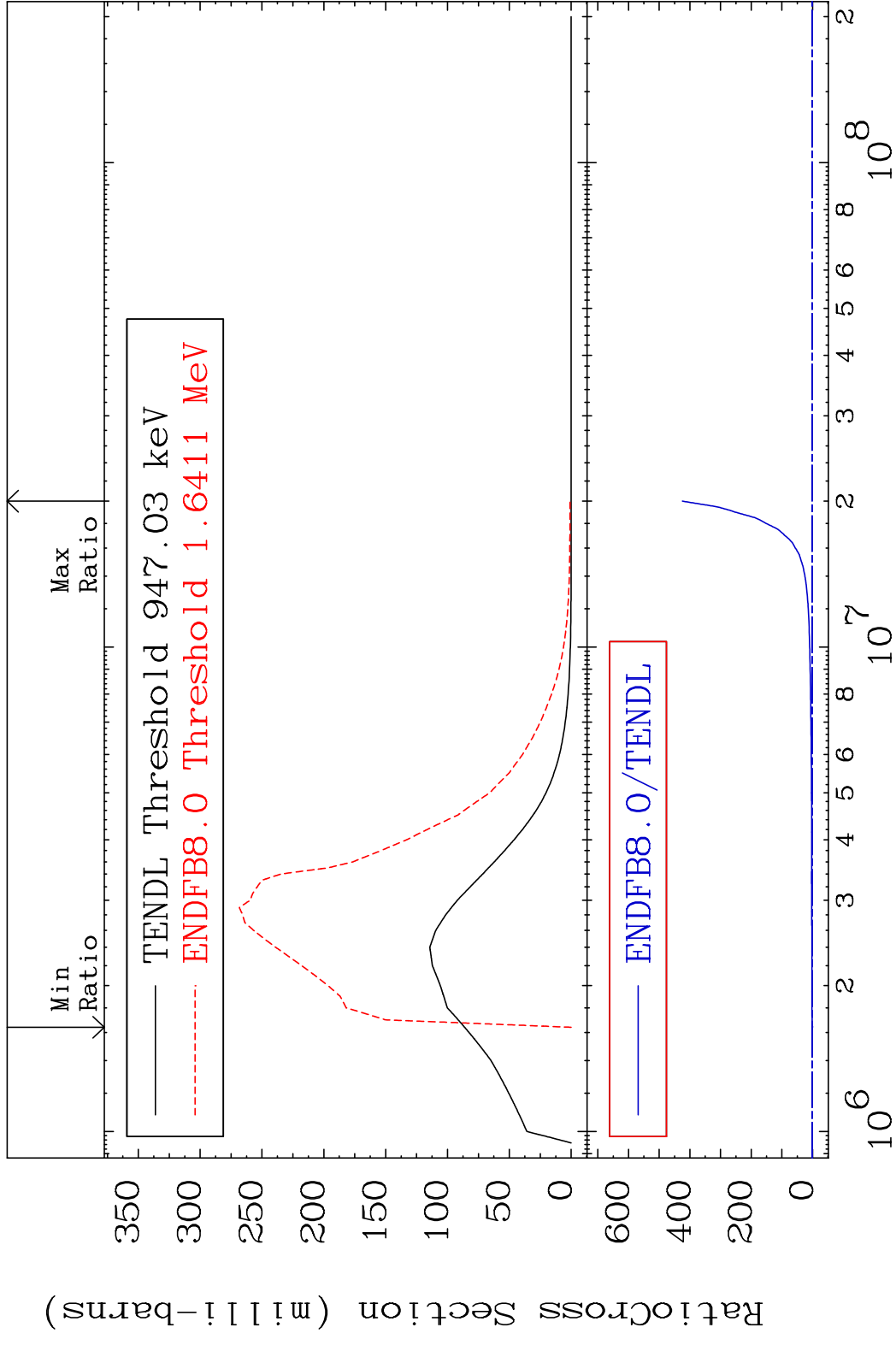
MAT 2328 MT= 51 (n,n') Level 23-V -51
 Cross Section -1.563 To 9999. %



MAT 2328 MT= 52 (n, n') Level 23-V -51
 Cross Section -100.0 To 9999. %

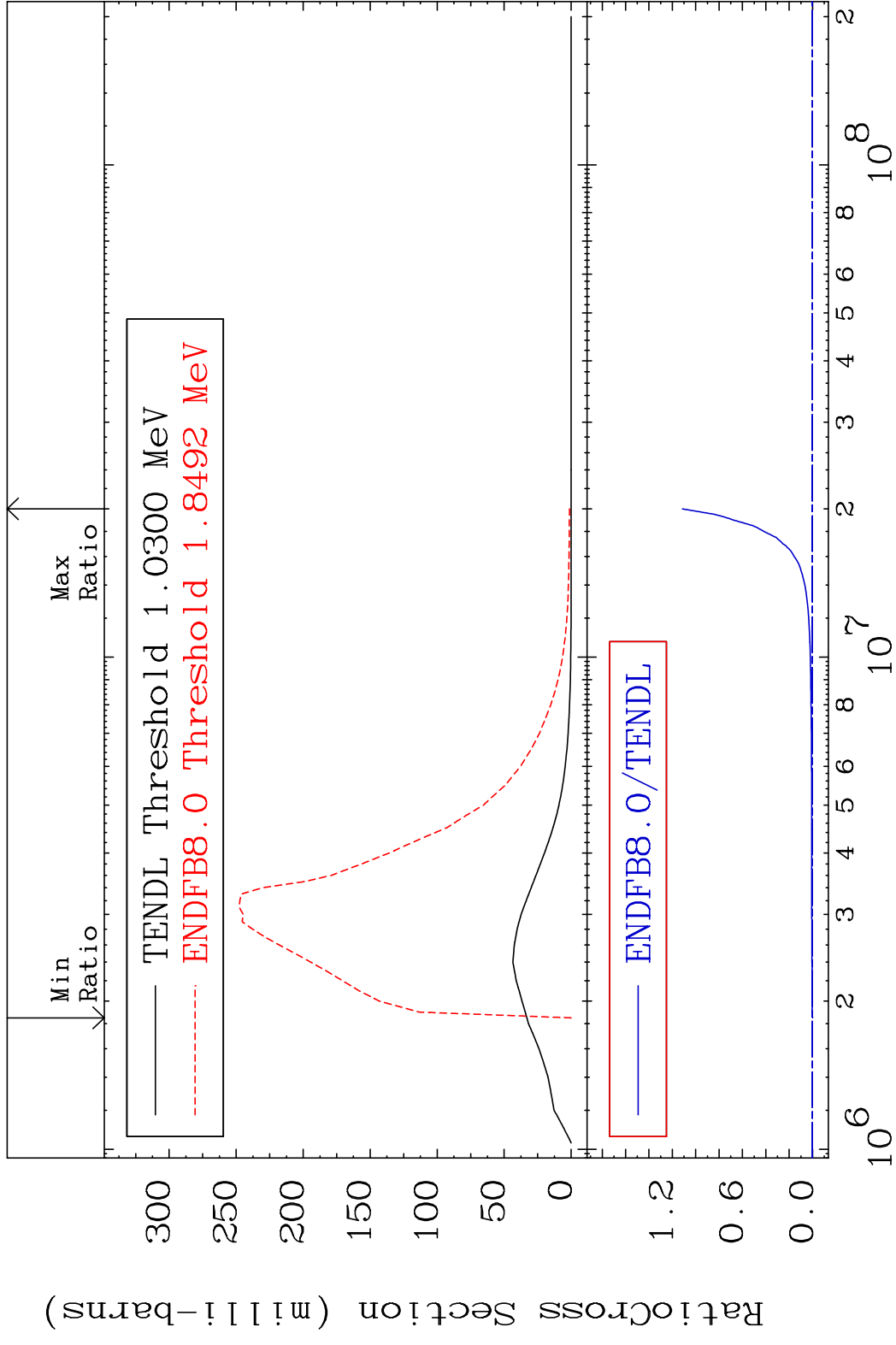


MAT 2328 MT= 53 (n, n') Level 23-V -51
 Cross Section -100.0 To 9999. %



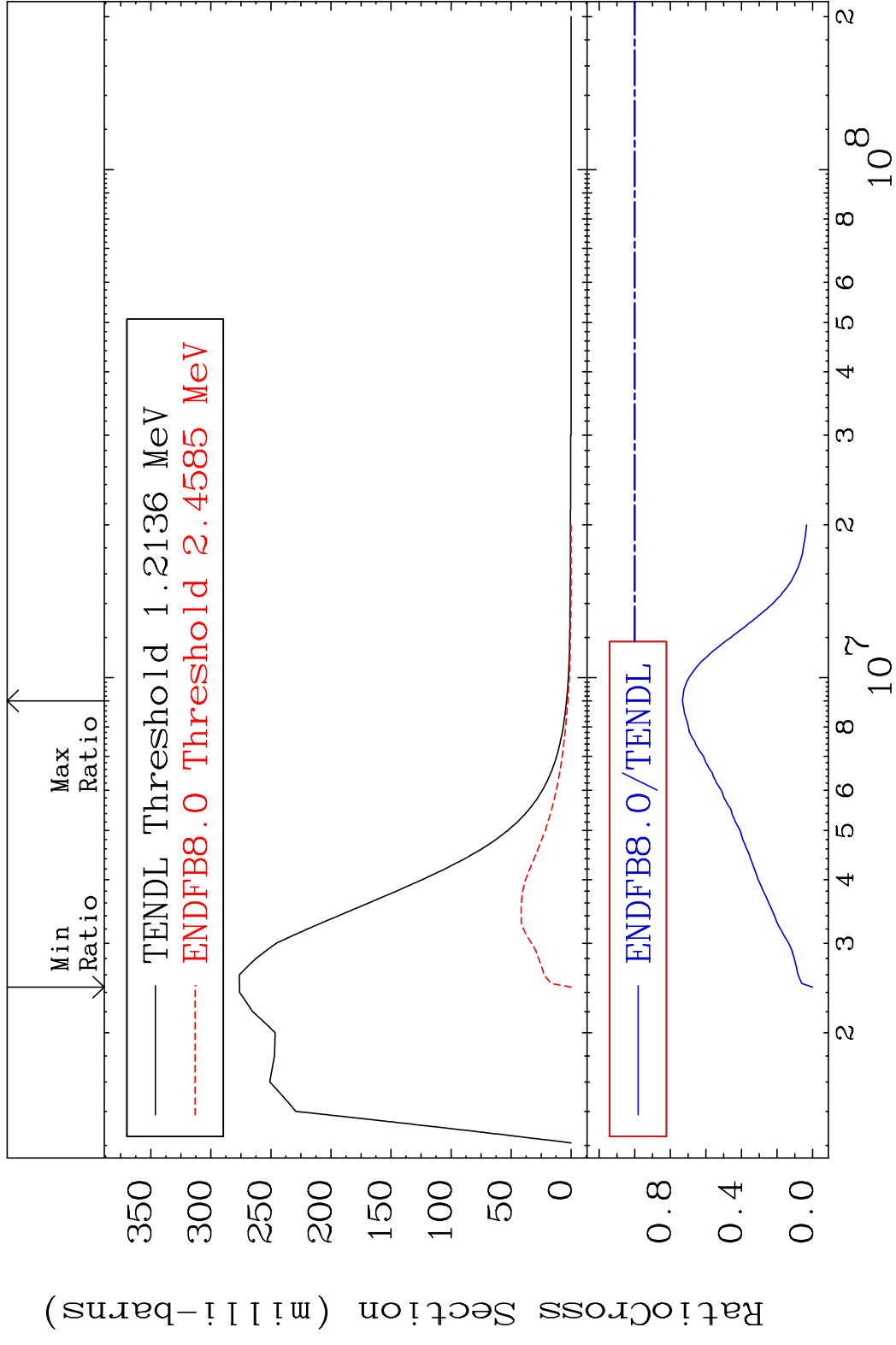
10 100 1000 10000 100000 1000000 10000000 100000000 1000000000 23-V -51

MAT 2328 MT= 54 (n, n') Level 23-V -51
 Cross Section -100.0 To 9999. %

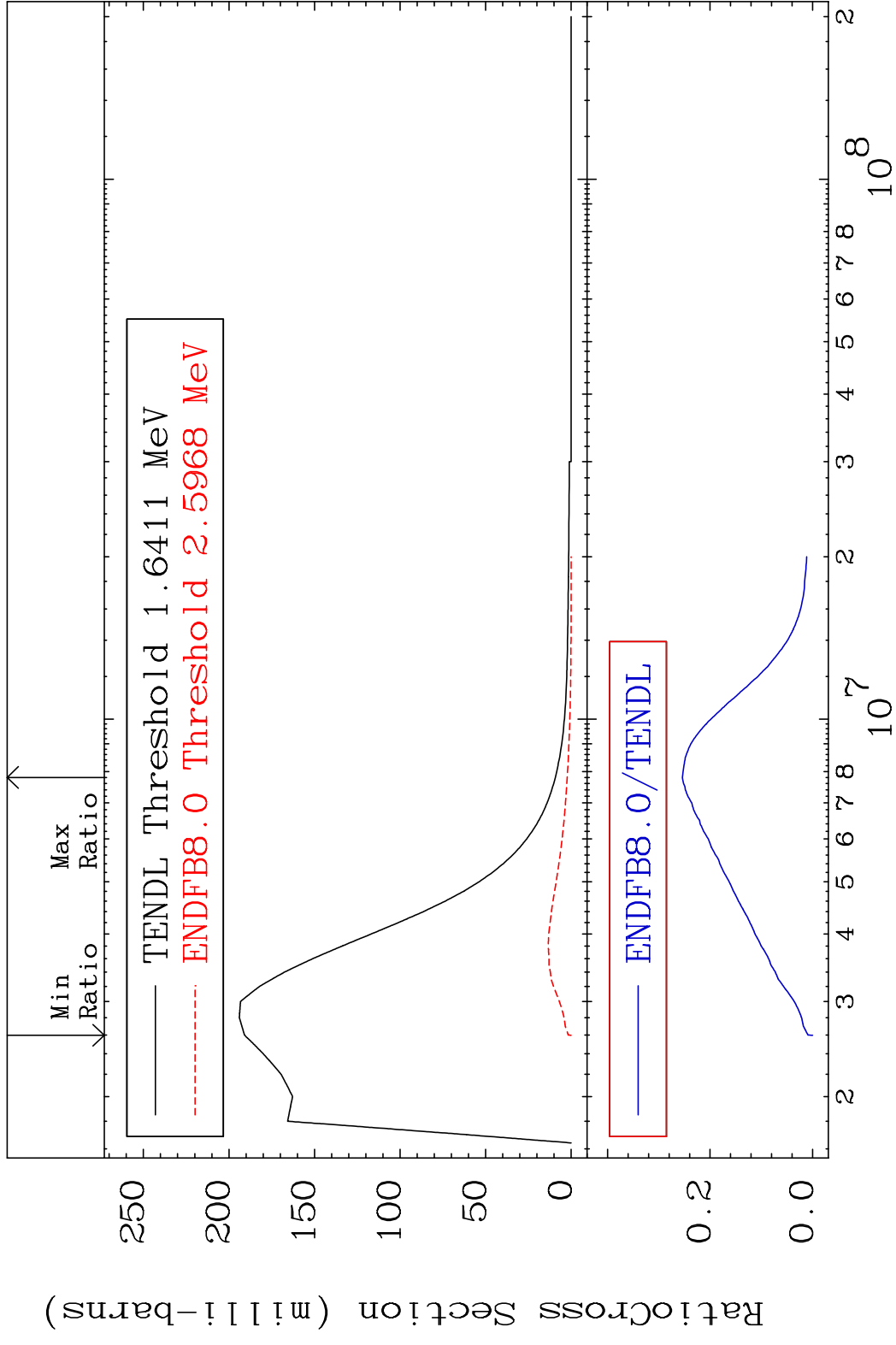


11 Incident Energy (eV) 23-V -51

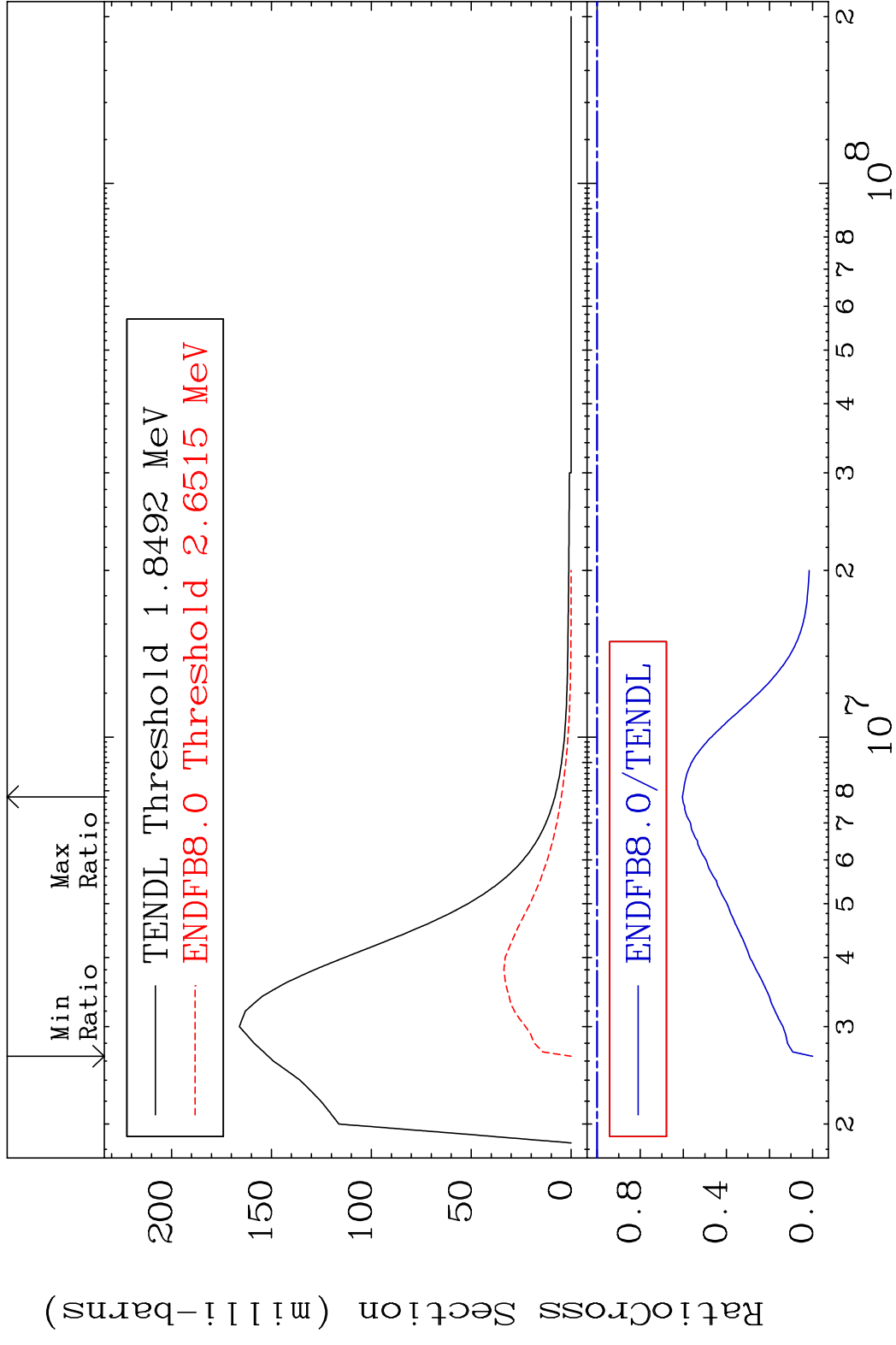
MAT 2328 MT= 55 (n,n') Level 23-V -51
 Cross Section -100.0 To -26.78%



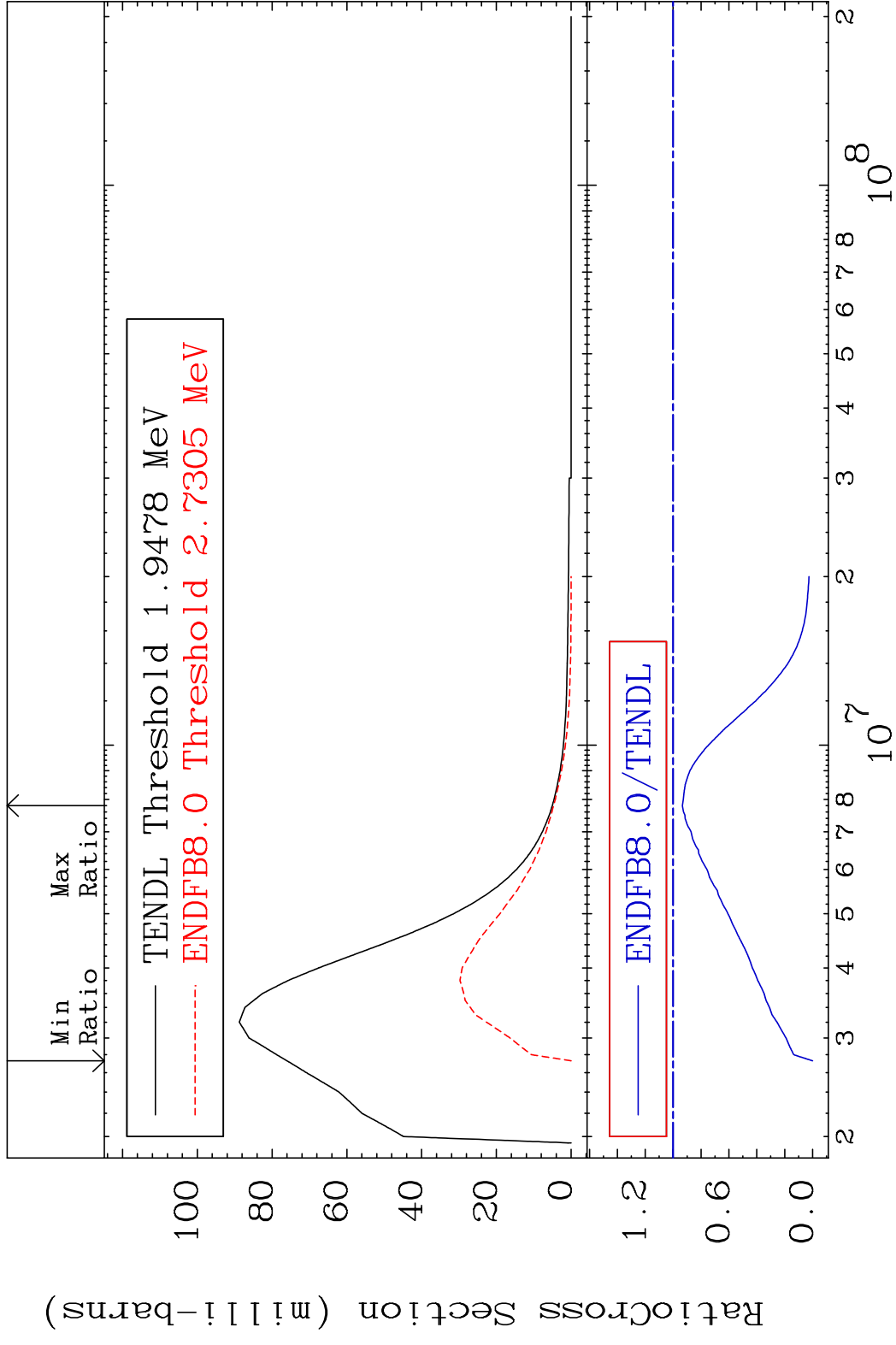
MAT 2328 MT= 56 (n,n') Level 23-V -51
 Cross Section -100.0 To -74.59%



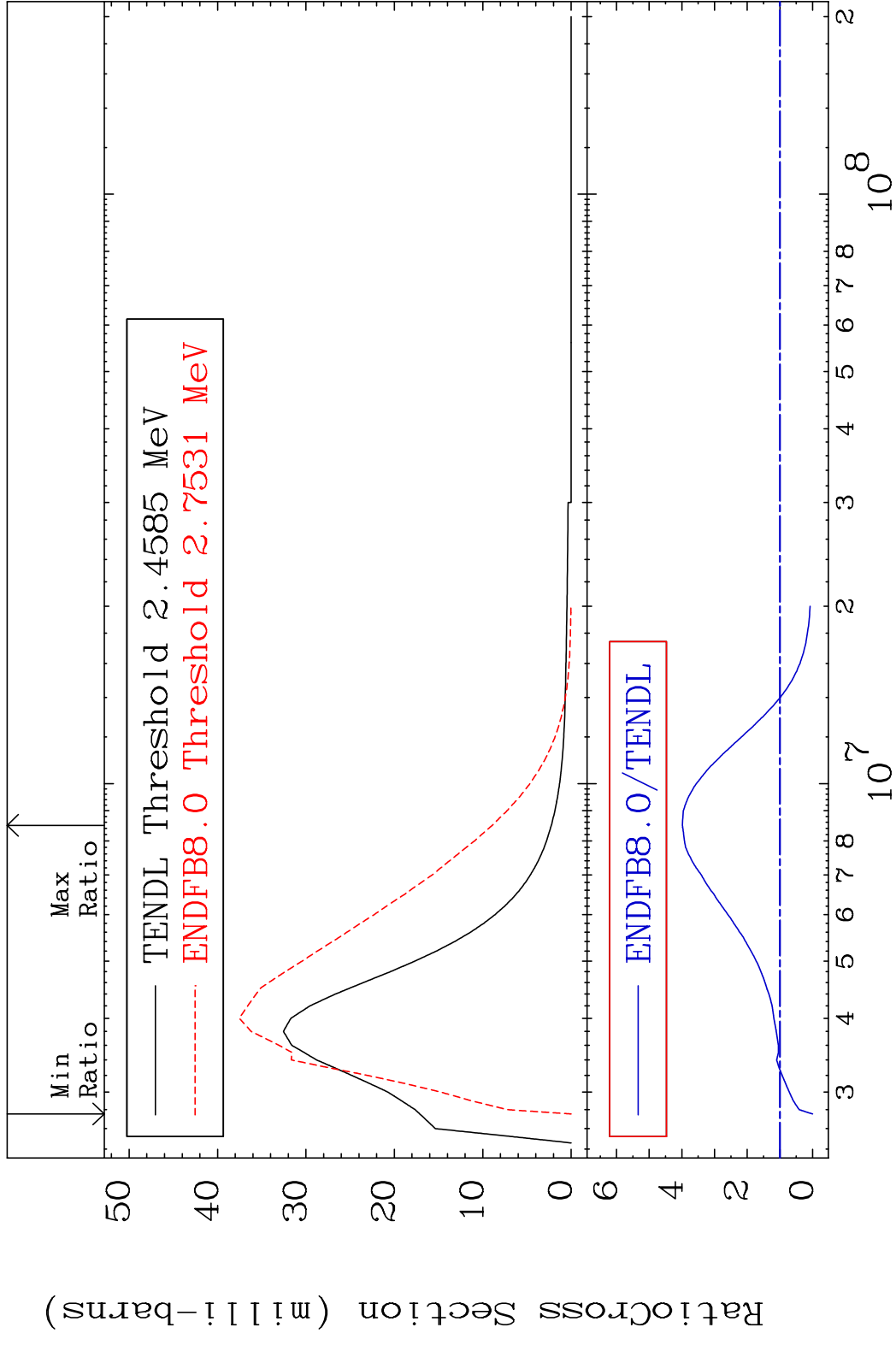
MAT 2328 MT= 57 (n,n') Level 23-V -51
 Cross Section -100.0 To -39.55%



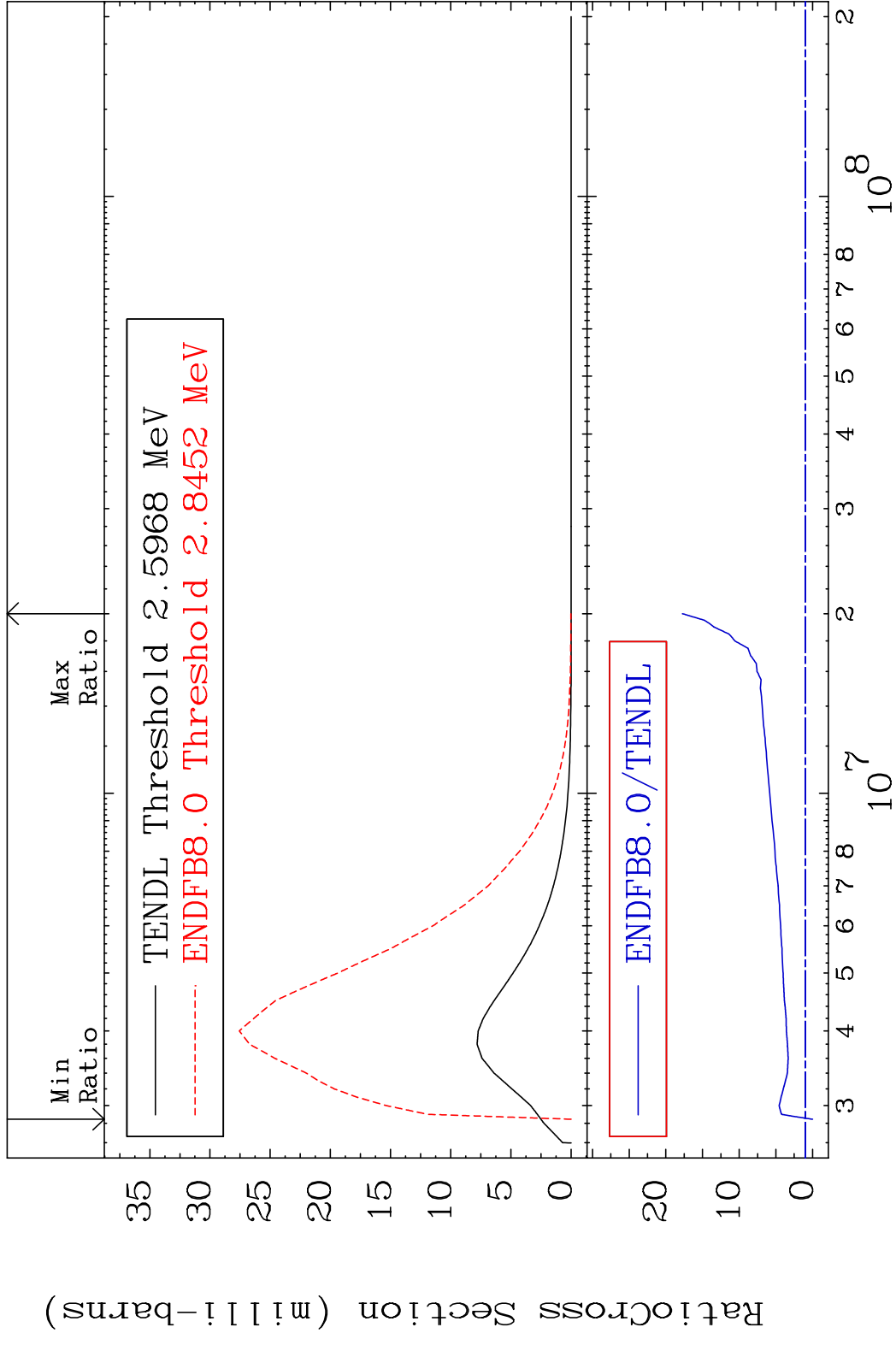
MAT 2328 MT= 58 (n,n') Level 23-V -51
 Cross Section -100.0 To -6.607%



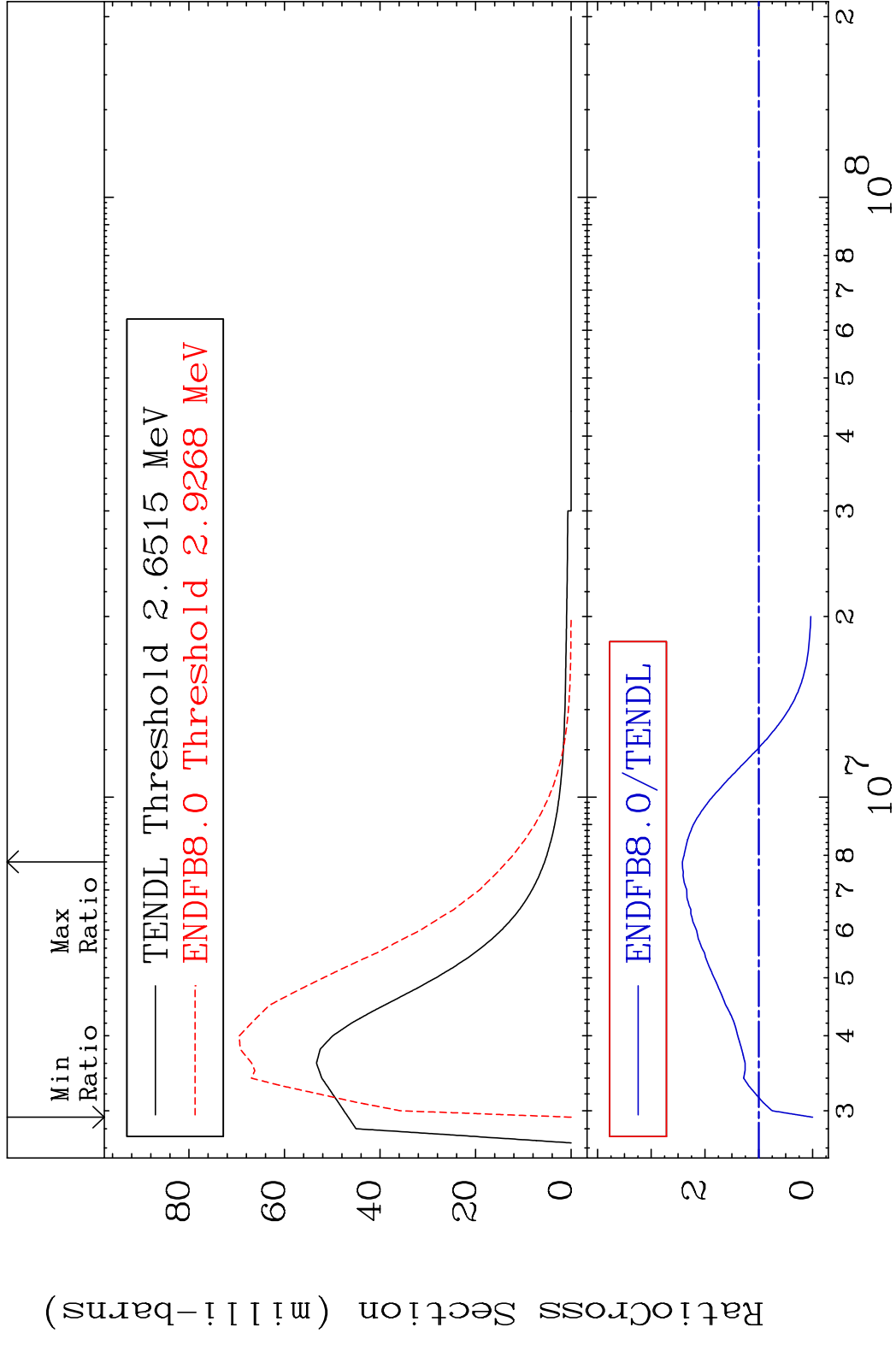
MAT 2328 MT= 59 (n,n') Level 23-V -51
 Cross Section -100.0 To 298.5 %



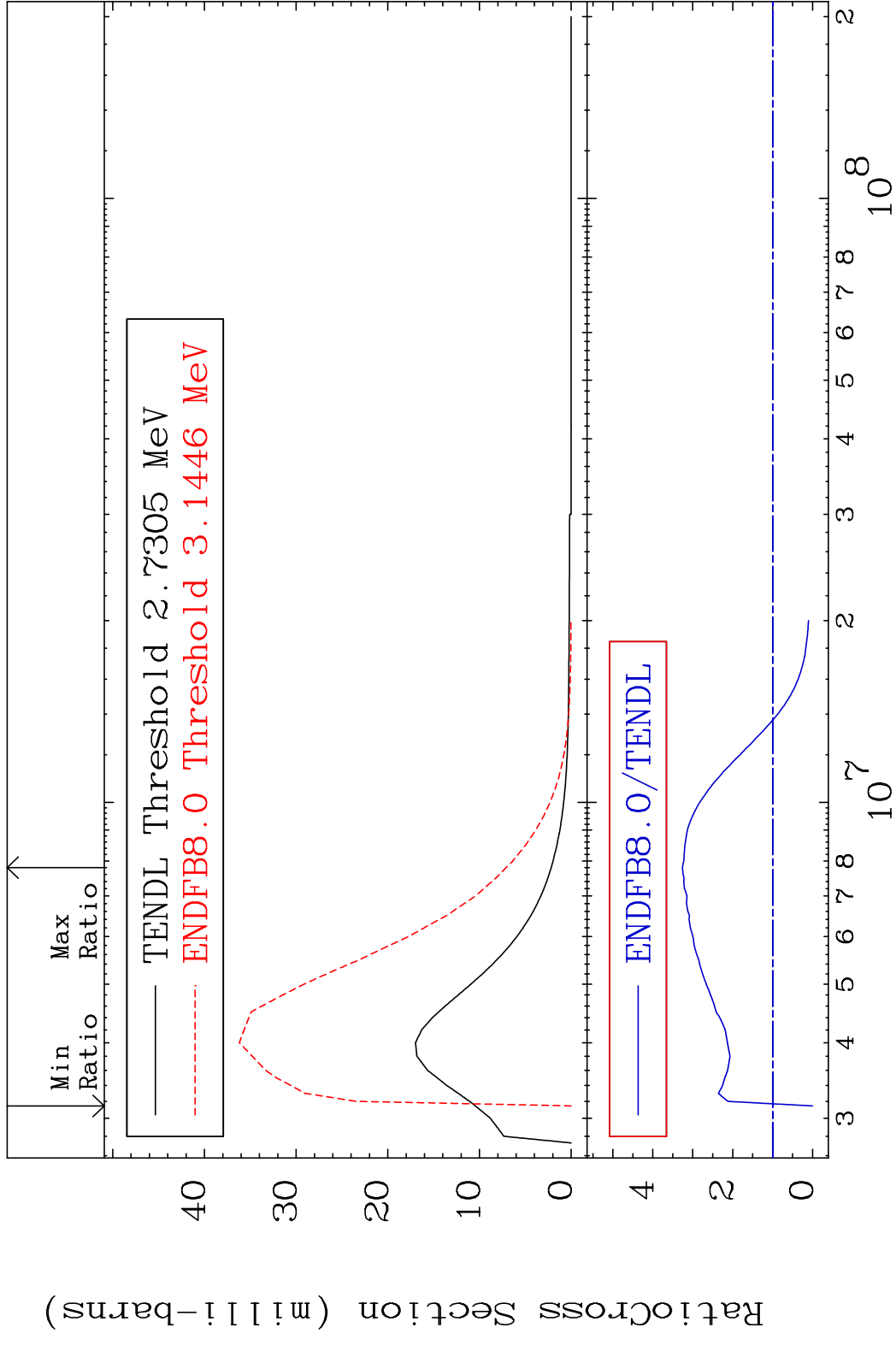
MAT 2328 MT= 60 (n, n') Level 23-V -51
 Cross Section -100.0 To 1675. %



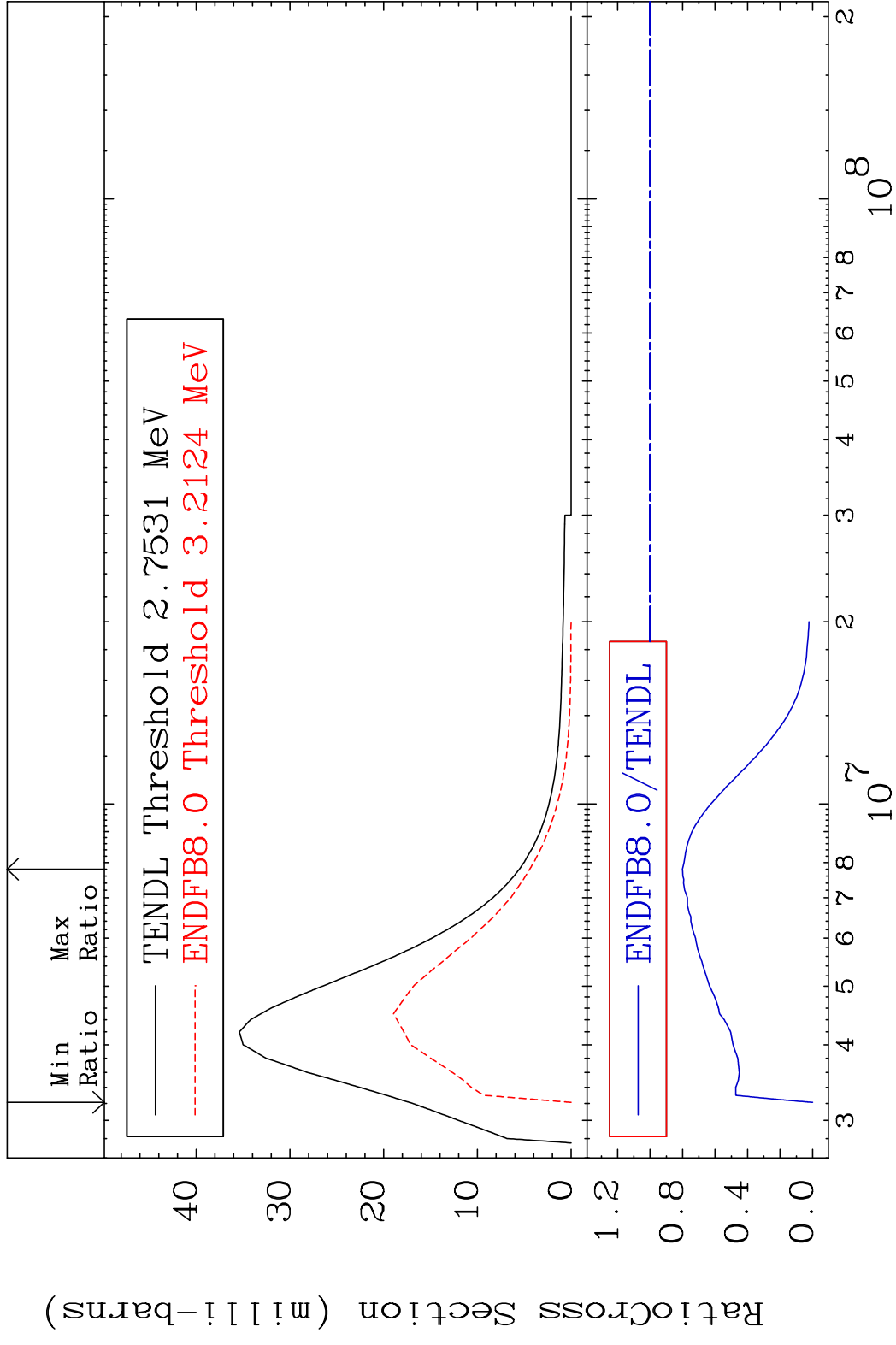
MAT 2328 MT= 61 (n, n') Level 23-V -51
 Cross Section -100.0 To 142.1 %



MAT 2328 MT= 62 (n,n') Level 23-V -51
 Cross Section -100.0 To 226.0 %

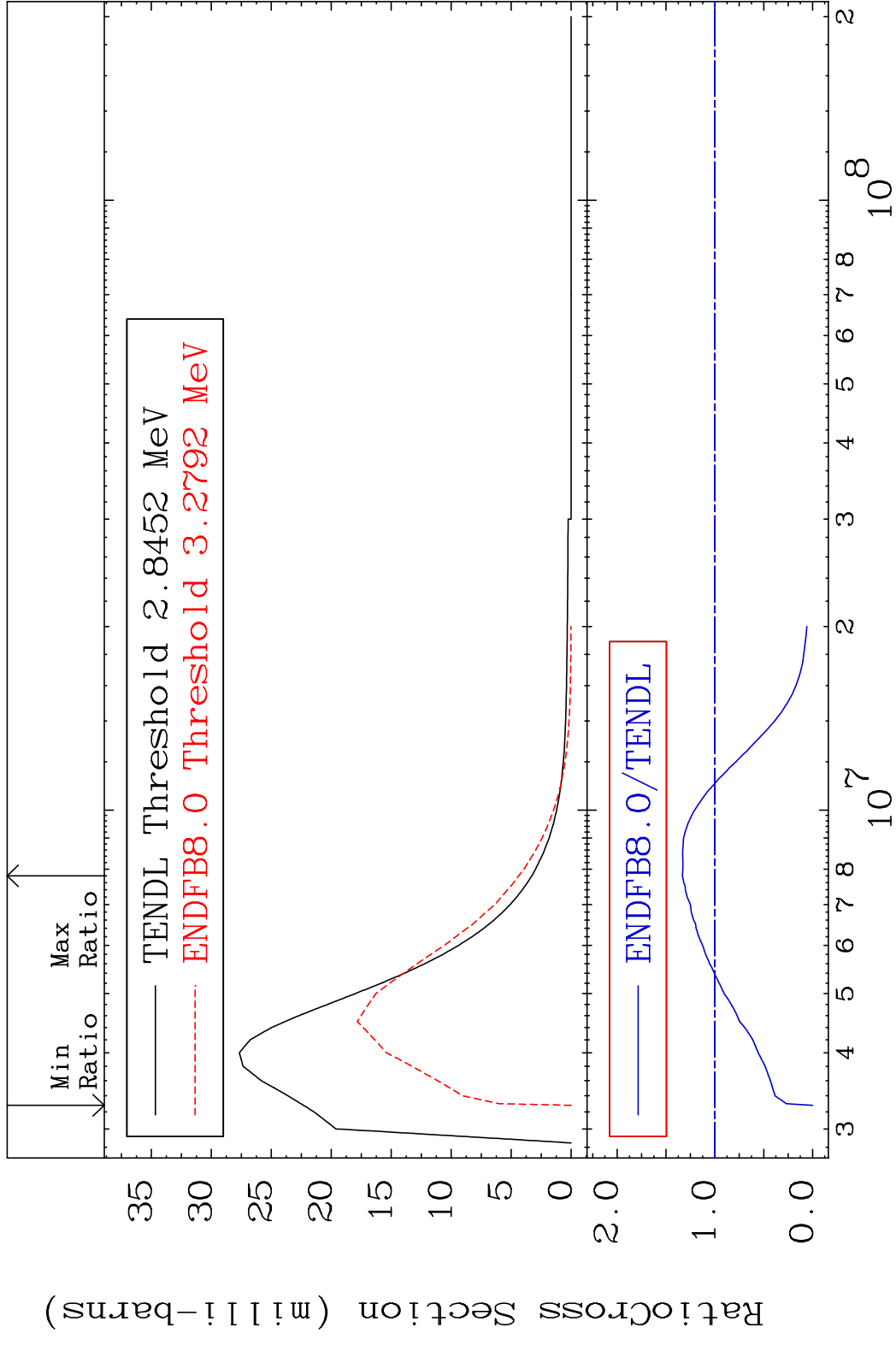


MAT 2328 MT= 63 (n,n') Level 23-V -51
 Cross Section -100.0 To -19.87%



20 Incident Energy (eV) 23-V -51

MAT 2328 MT= 64 (n,n') Level 23-V -51
 Cross Section -100.0 To 33.27 %

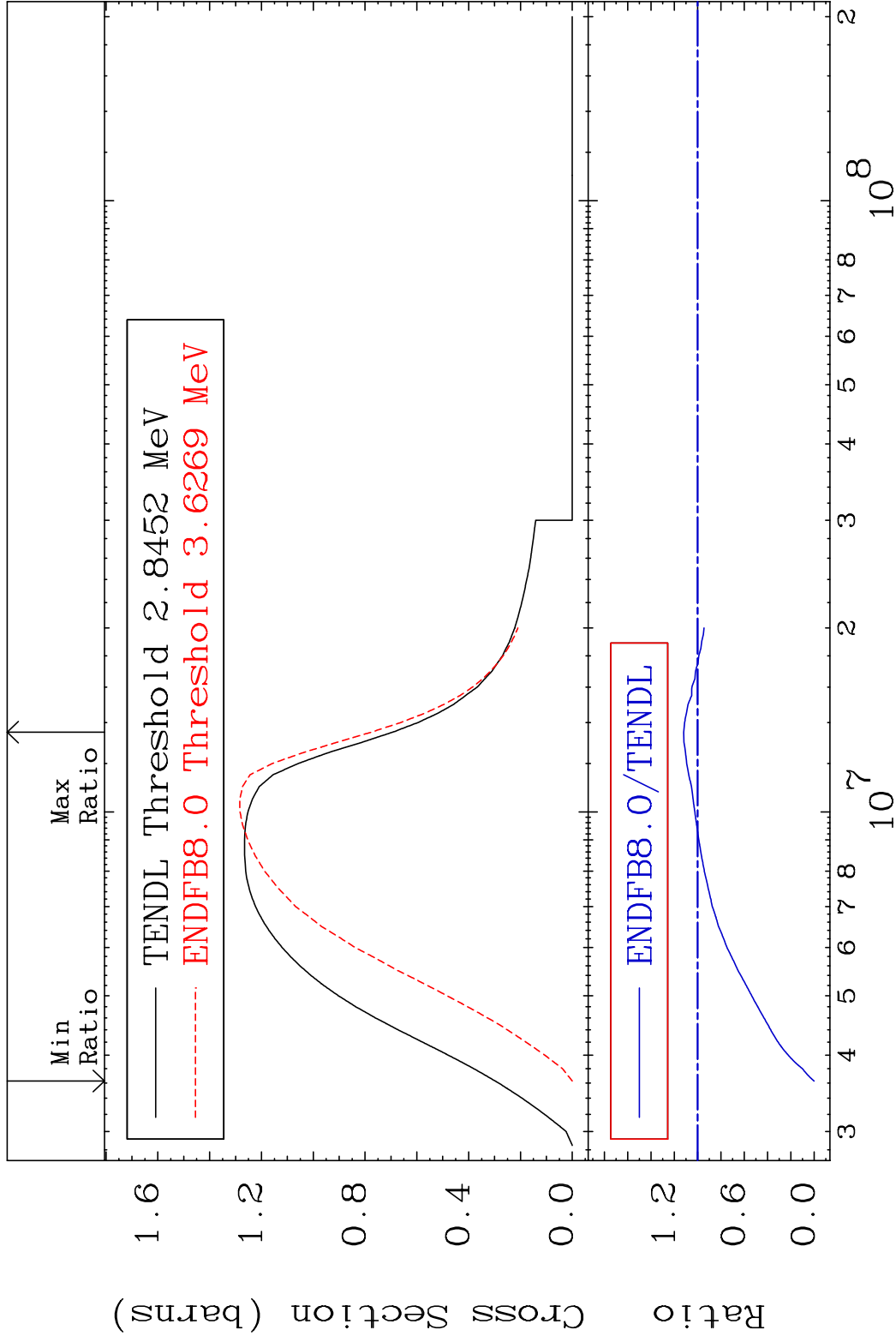


MAT 2328

(n,n') Continuum

23-V -51

Cross Section -100.0 To 12.01 %



22

Incident Energy (eV)

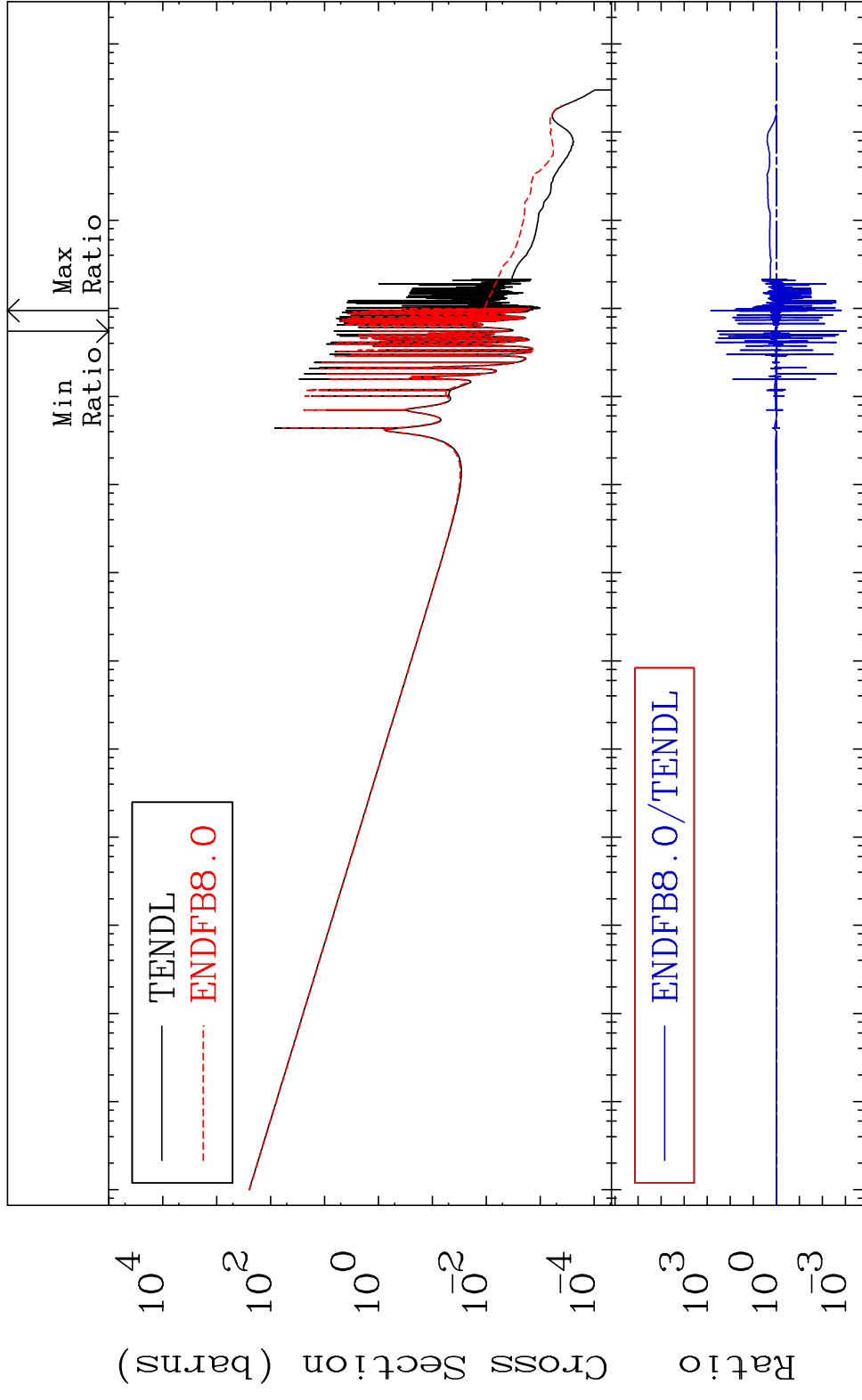
23-V -51

MAT 2328

(n, γ)

23-V -51

Cross Section -99.91 To 9999. %



Cross Section (barns)

Ratio

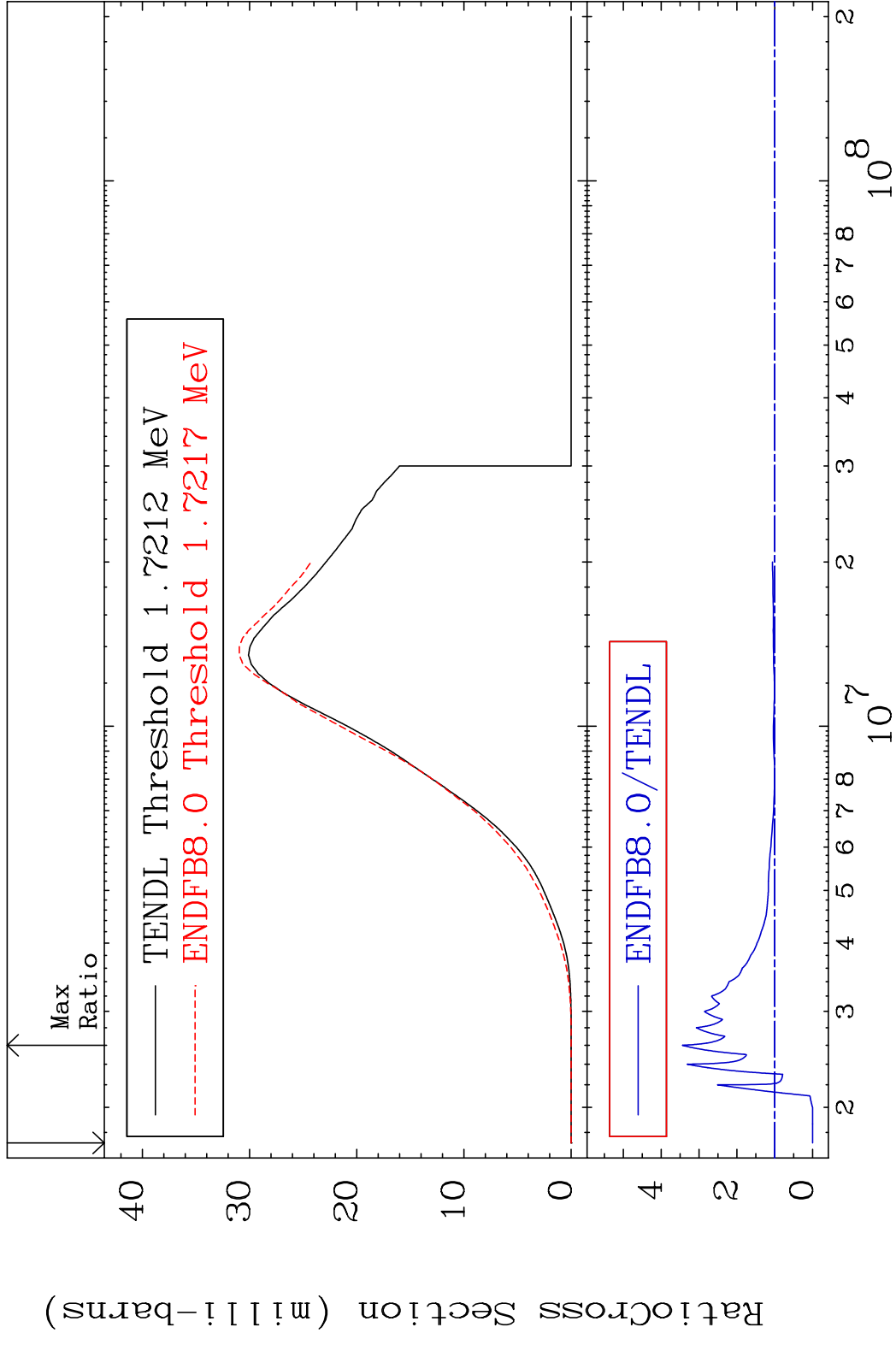
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

23

Incident Energy (eV)

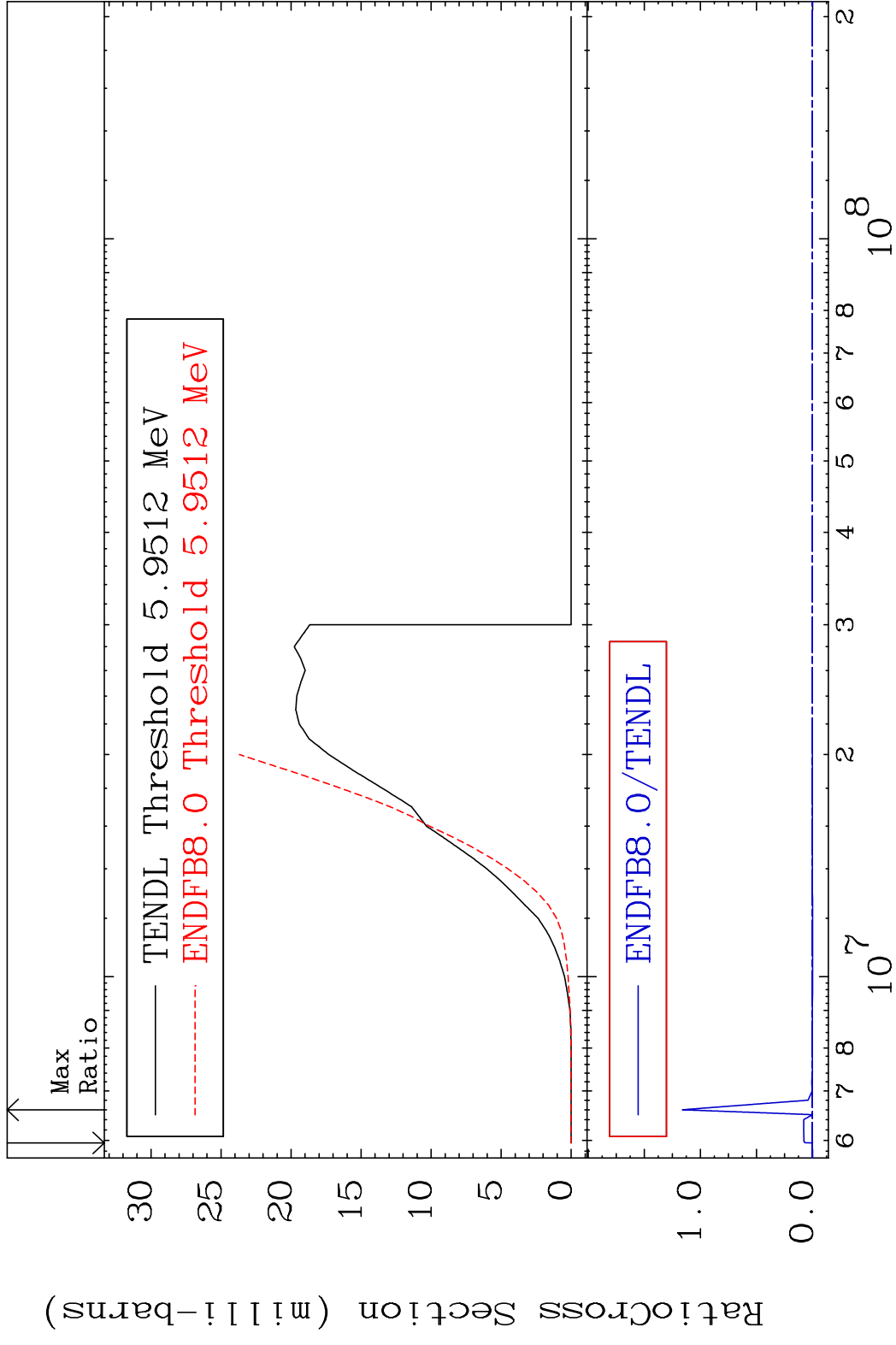
23-V -51

MAT 2328 (n,p) 23-V -51
 Cross Section -100.0 To 243.9 %

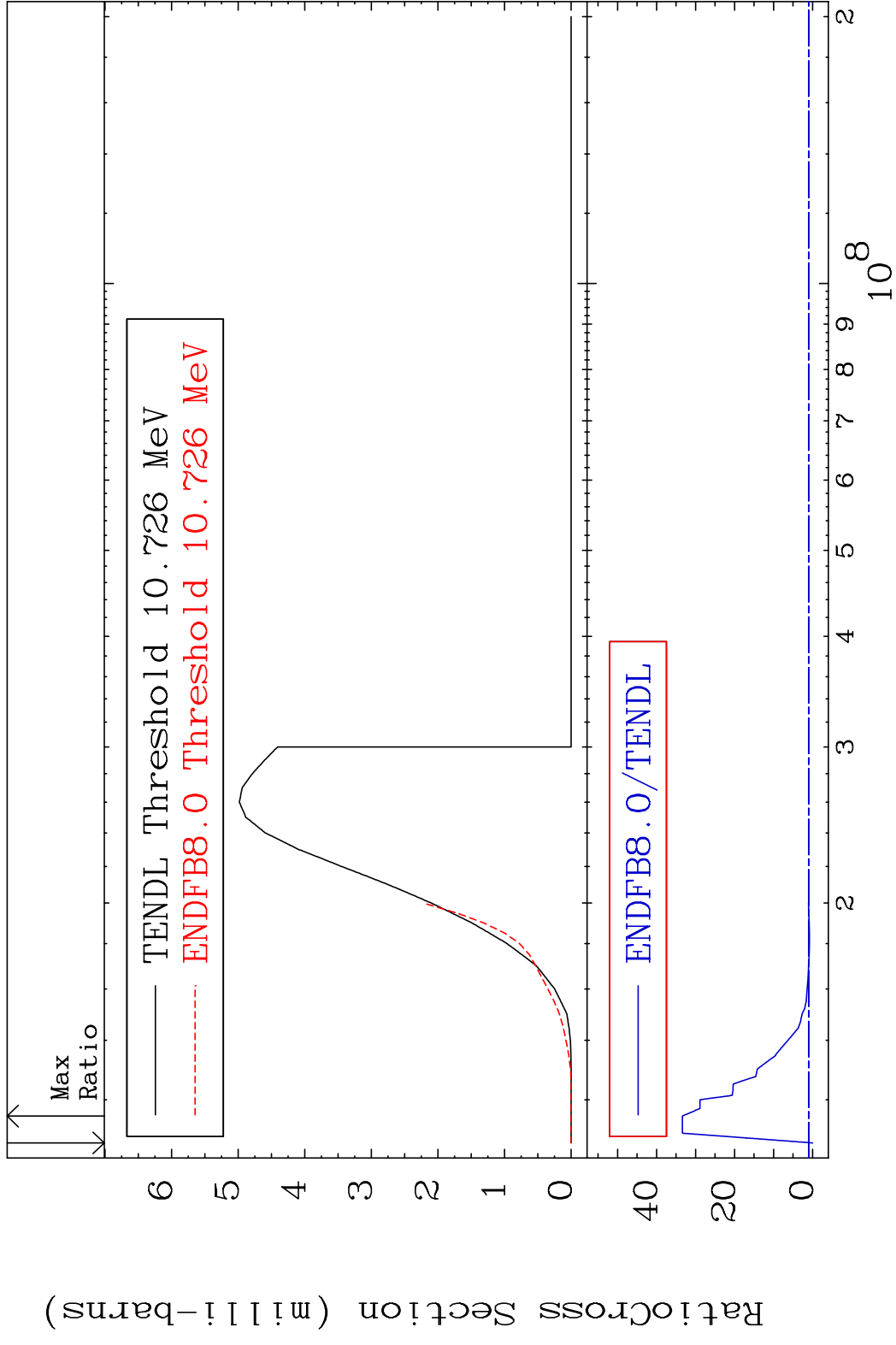


24 Incident Energy (eV) 23-V -51

MAT 2328 (n,d) 23-V -51
 Cross Section -100.0 To 9999. %



MAT 2328 (n, t) 23-V -51
 Cross Section -100.0 To 3238. %

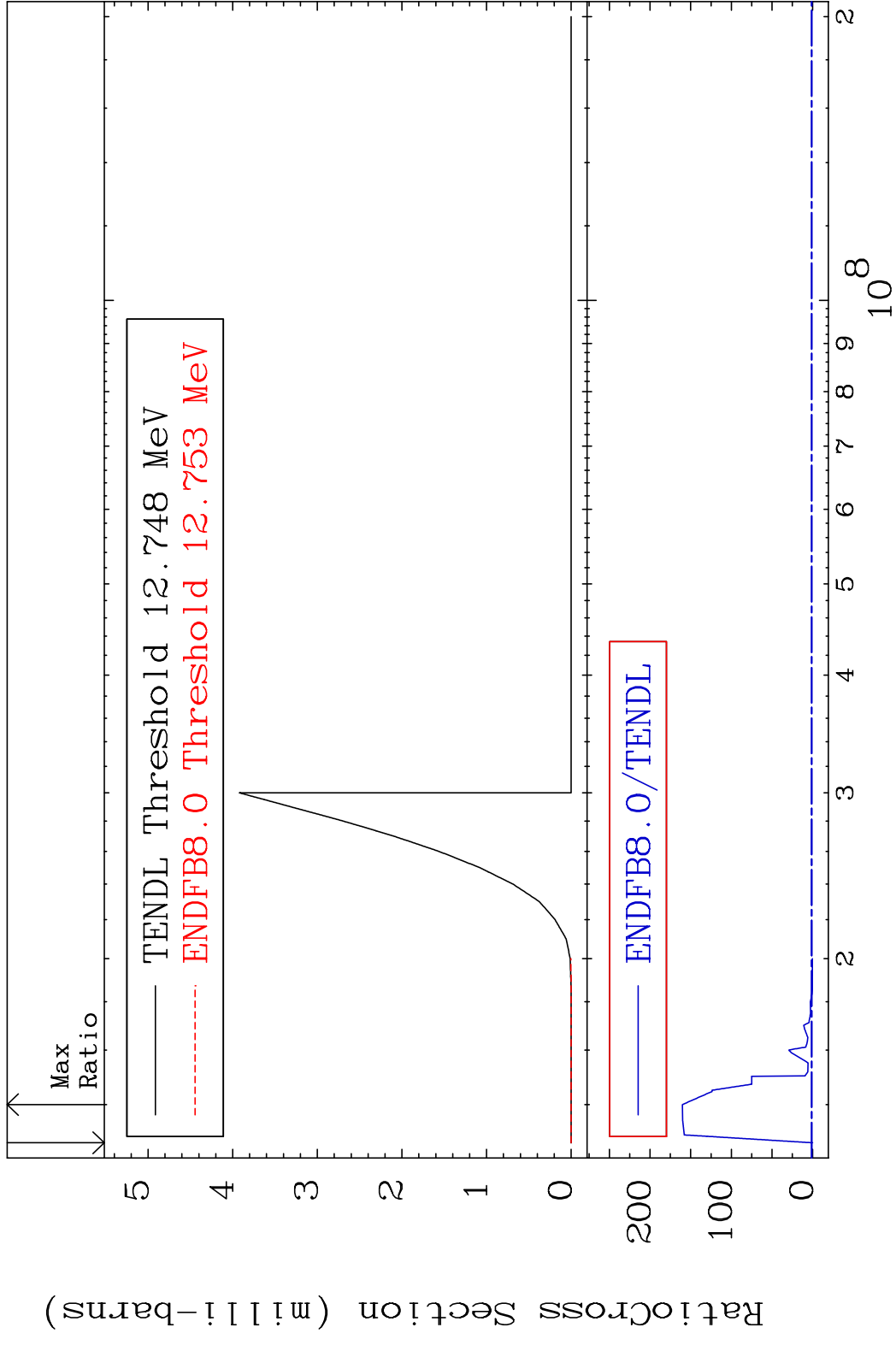


MAT 2328

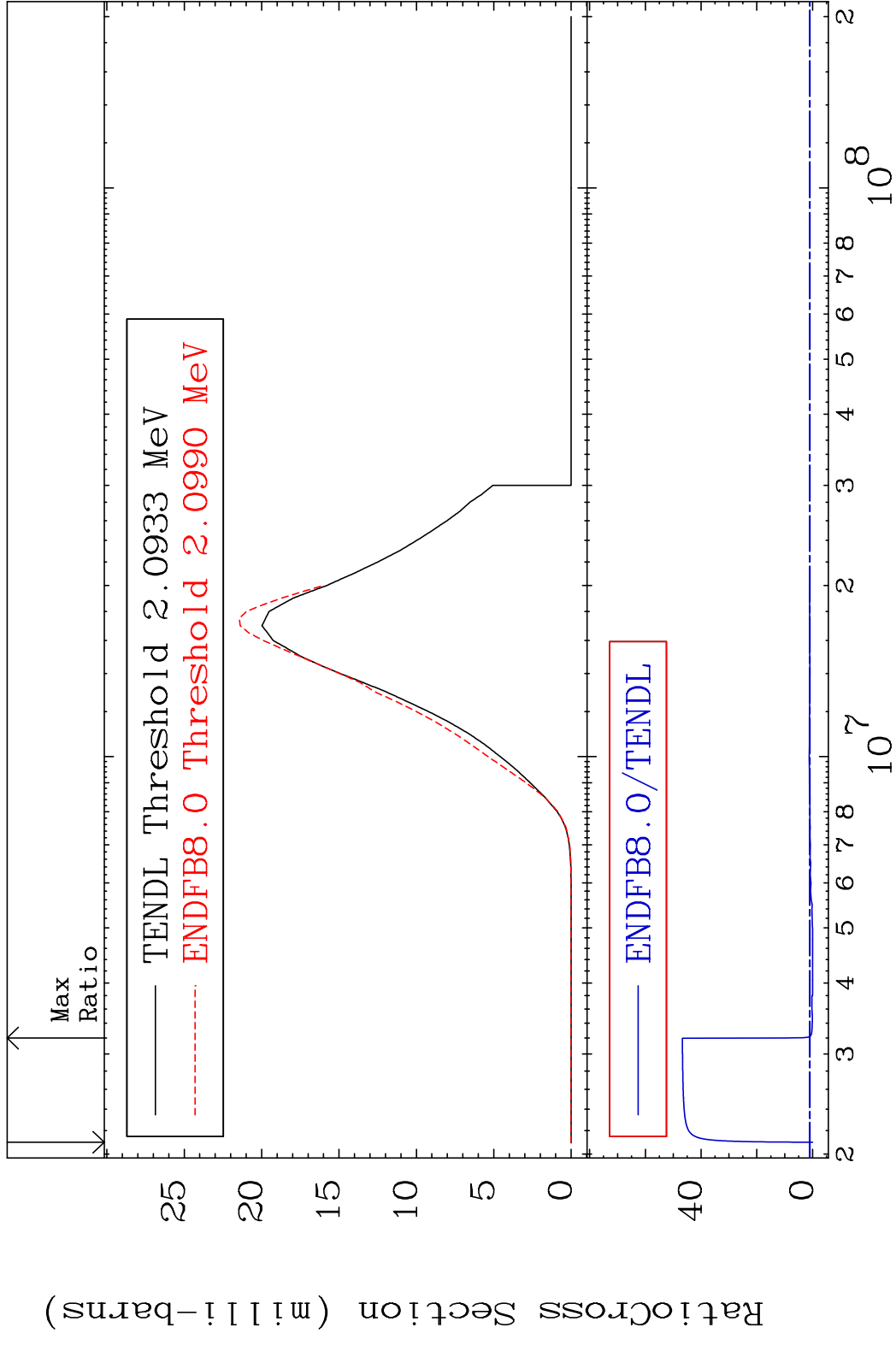
(n, He-3)

23-V -51

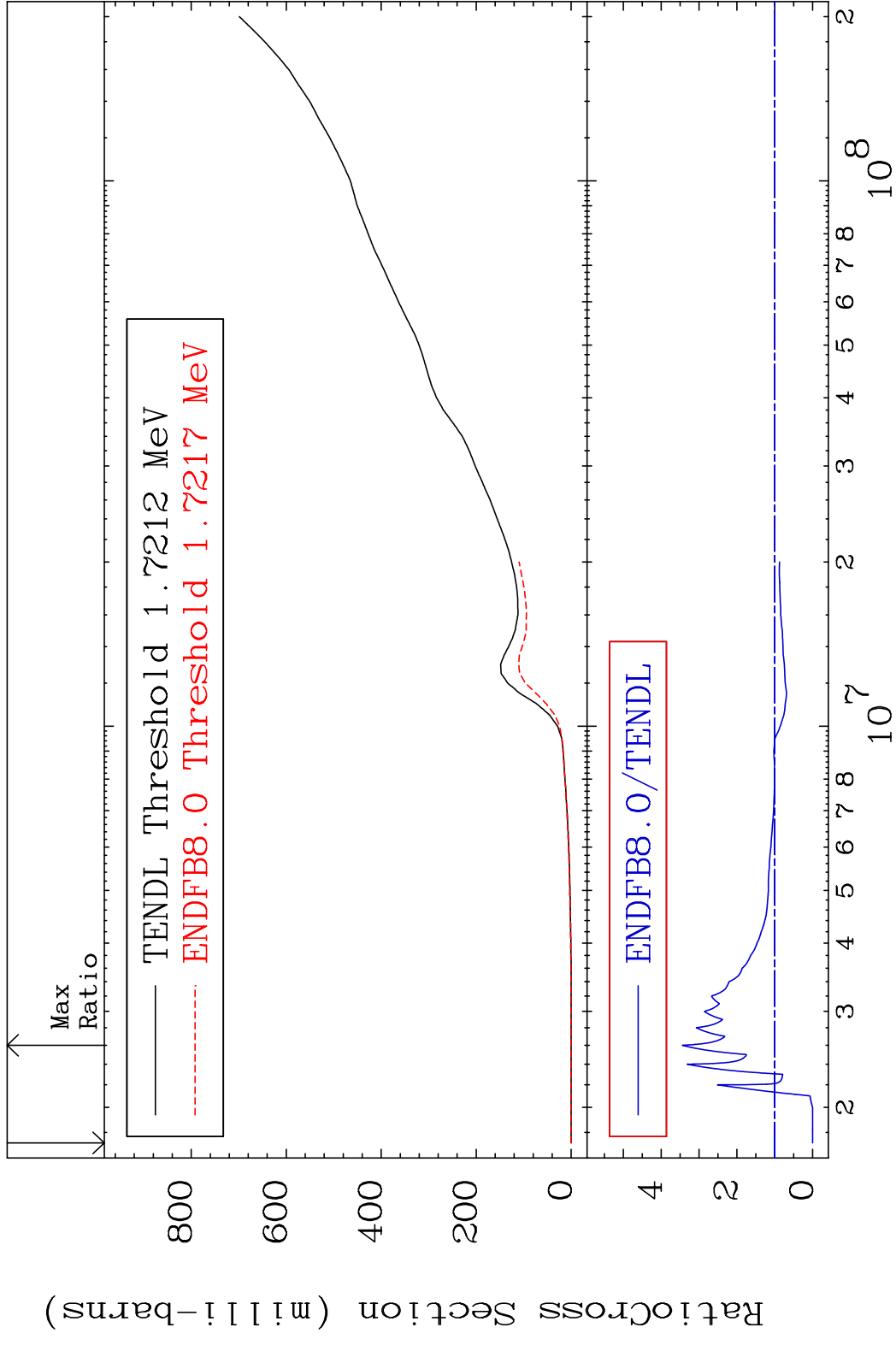
Cross Section -100.0 To 9999. %



MAT 2328 (n, α) 23-V -51
 Cross Section -100.0 To 4573. %



MAT 2328 Hydrogen Production 23-V -51
 Cross Section -100.0 To 243.9 %

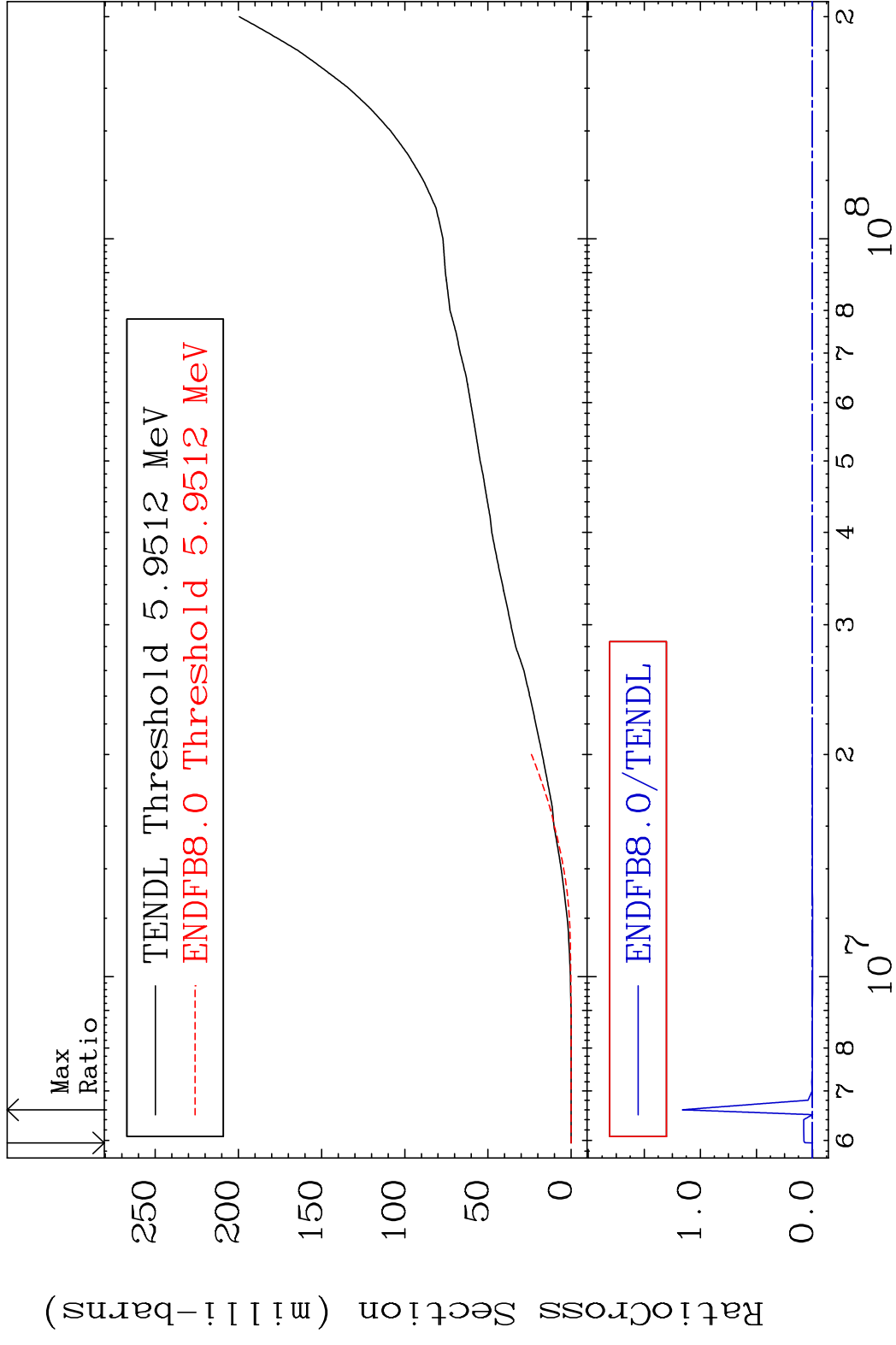


29 Incident Energy (eV) 23-V -51

MAT 2328

Deuterium Production 23-V -51

Cross Section -100.0 To 9999. %

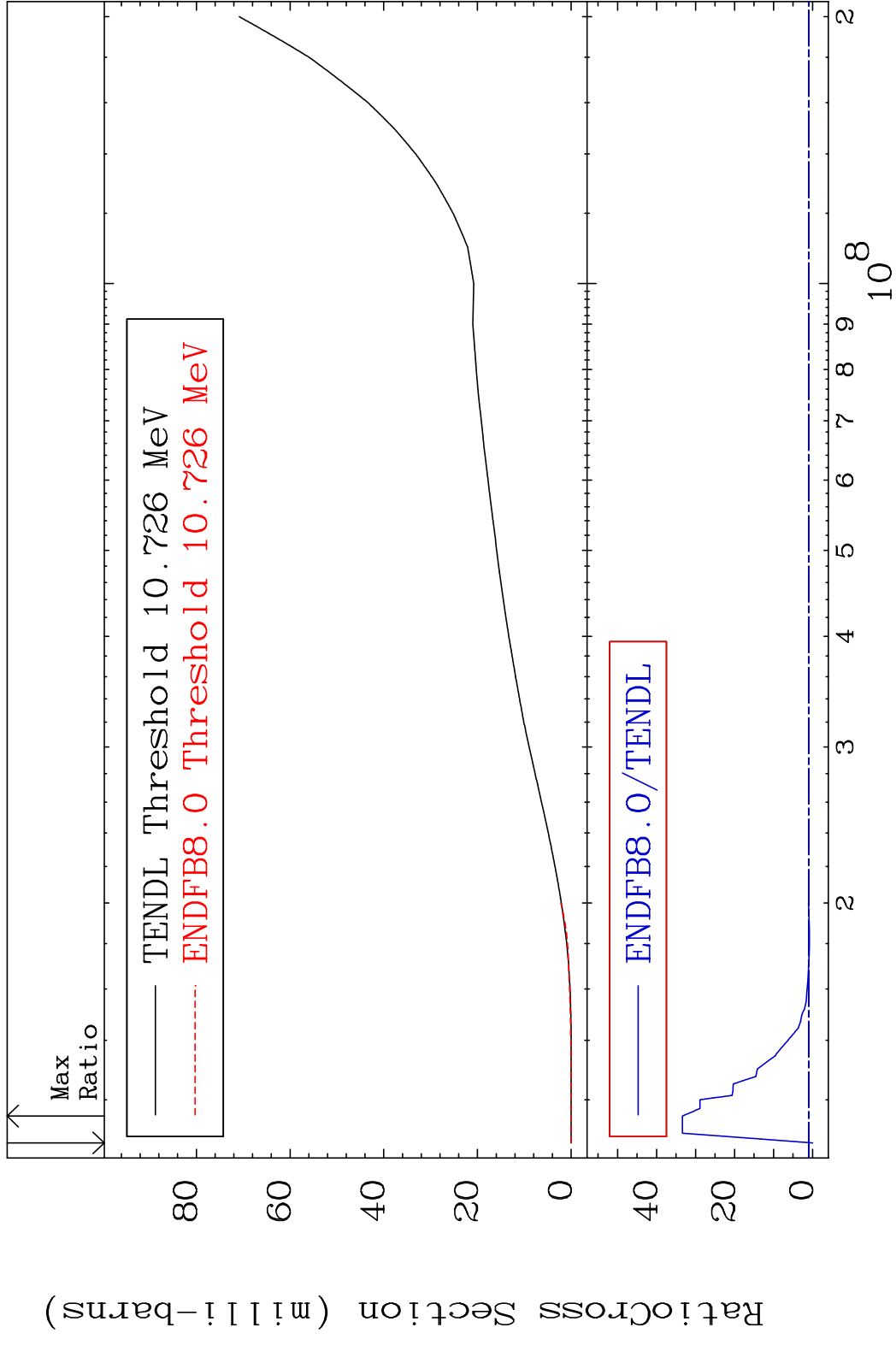


30

Incident Energy (eV)

23-V -51

MAT 2328 Tritium Production 23-V -51
 Cross Section -100.0 To 3238. %

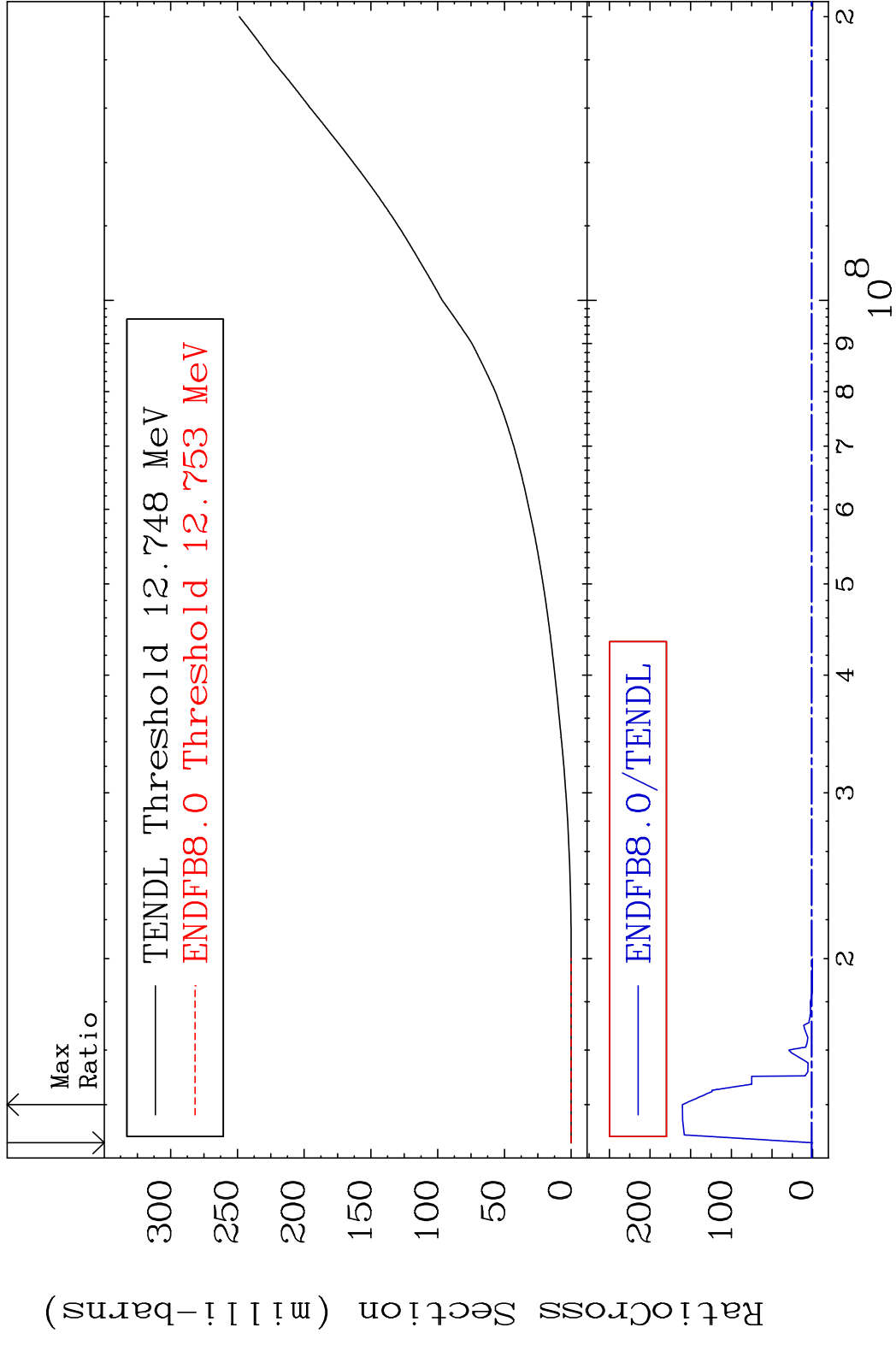


MAT 2328

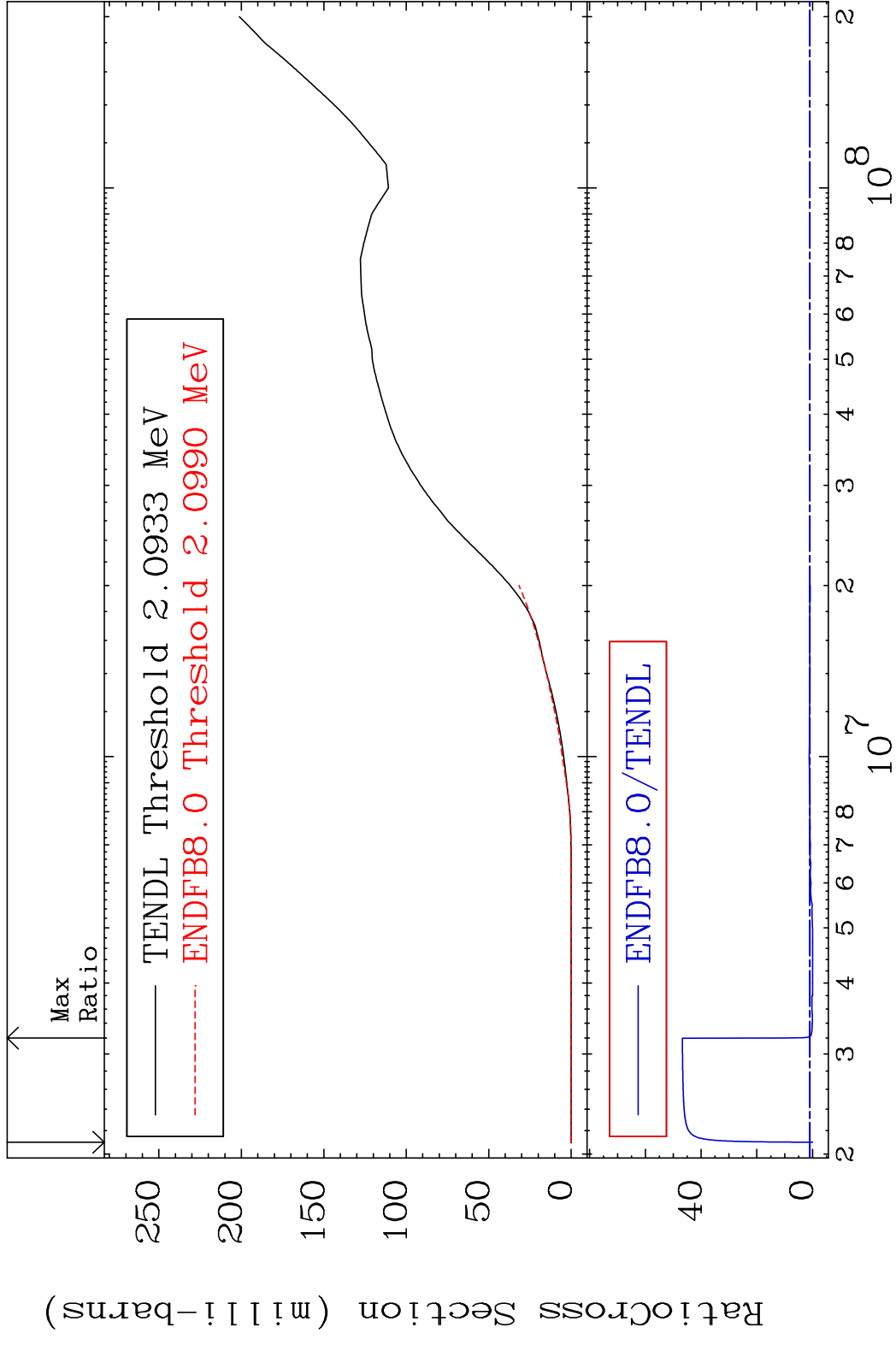
He-3 Production

23-V -51

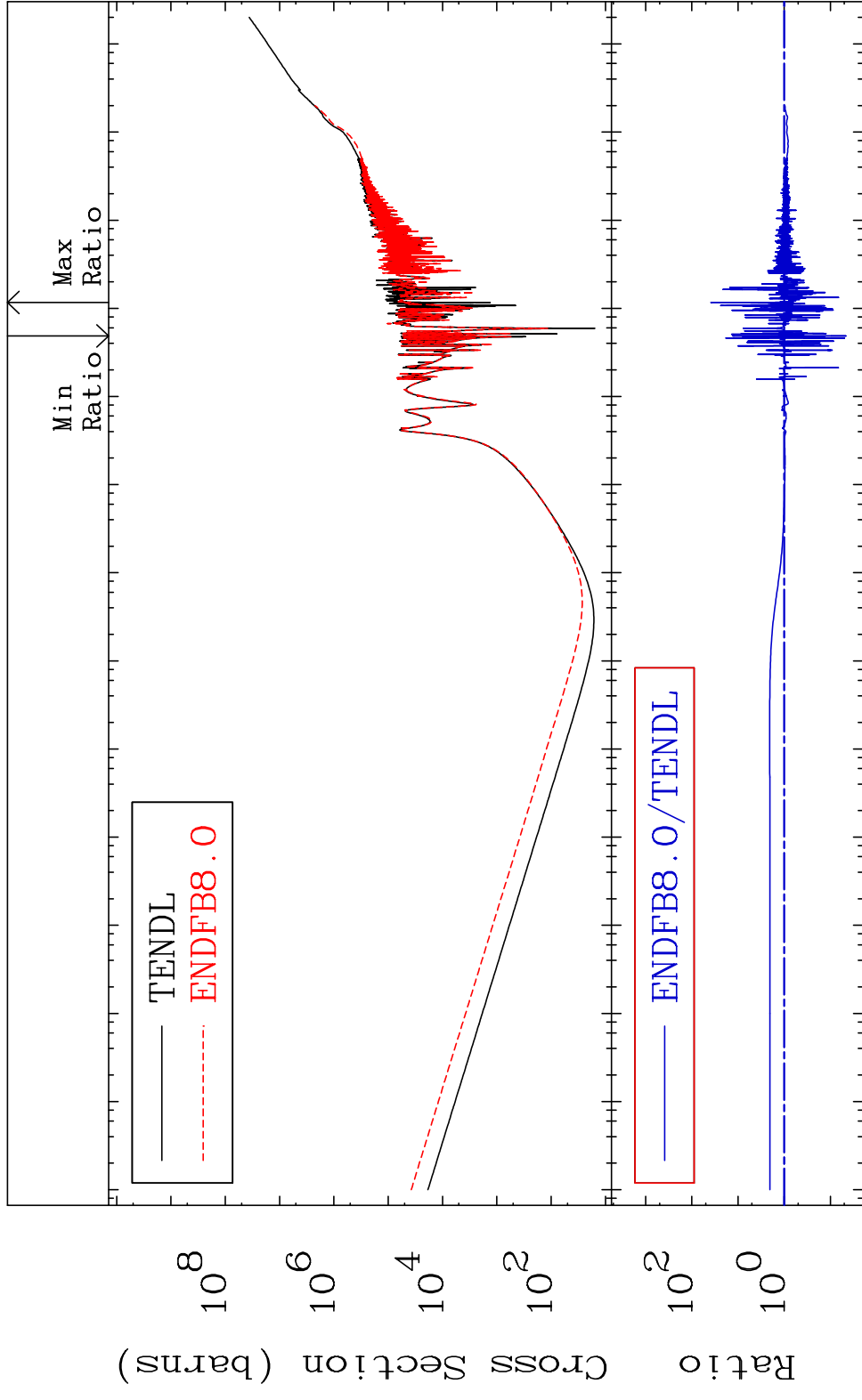
Cross Section -100.0 To 9999. %



MAT 2328 He-4 Production 23-V -51
 Cross Section -100.0 To 4573. %



MAT 2328 Kerma total (eV-barns) 23-V -51
 Cross Section -95.49 To 3801. %

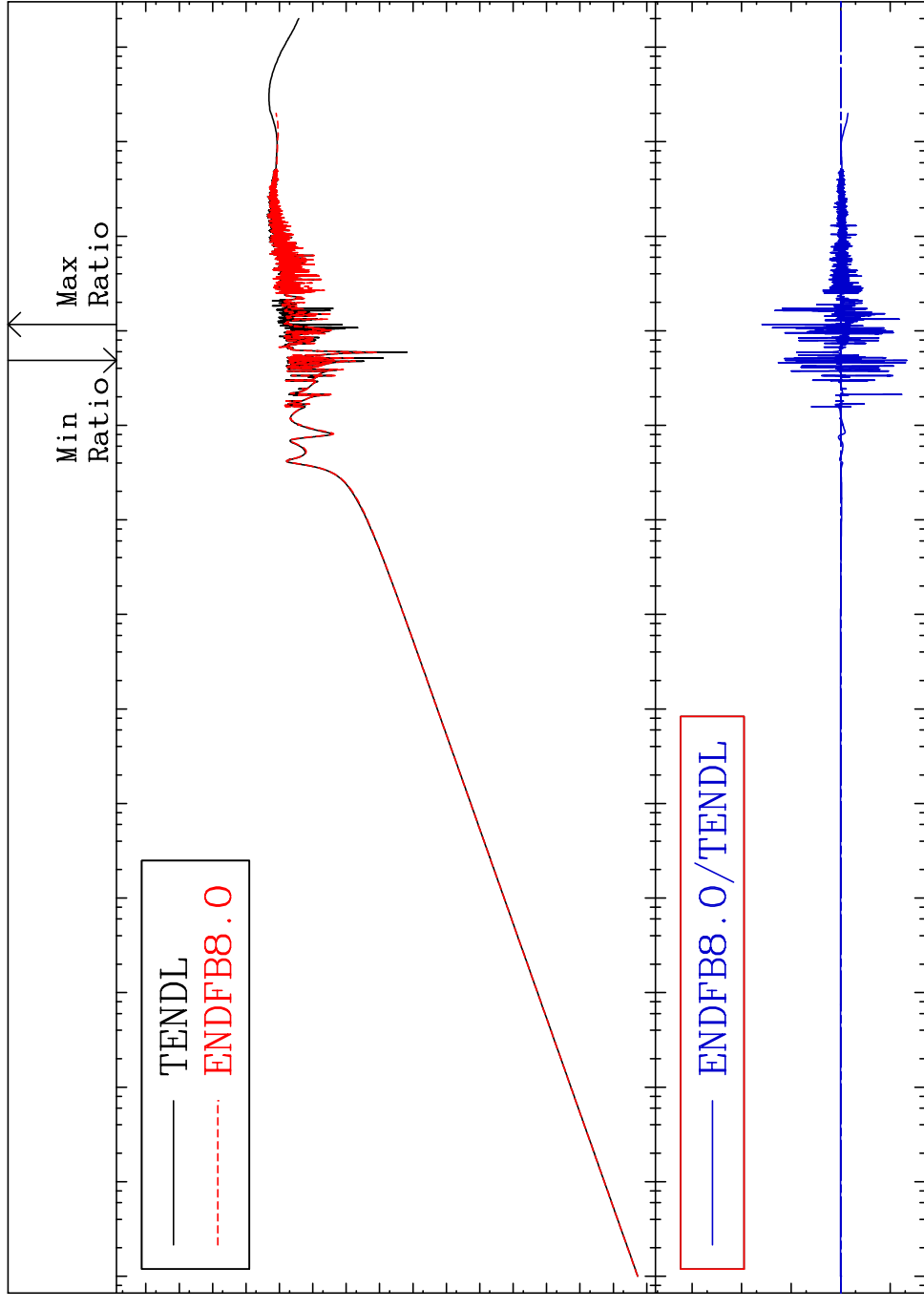


Ratio
 Cross Section (barns)
 Incident Energy (eV)

MAT 2328

Kerma elastic
Cross Section -95.46 To 3808. %

23-V -51



10⁸
10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴
10⁻⁶
Cross Section (barns)

10²
10⁰
Ratio

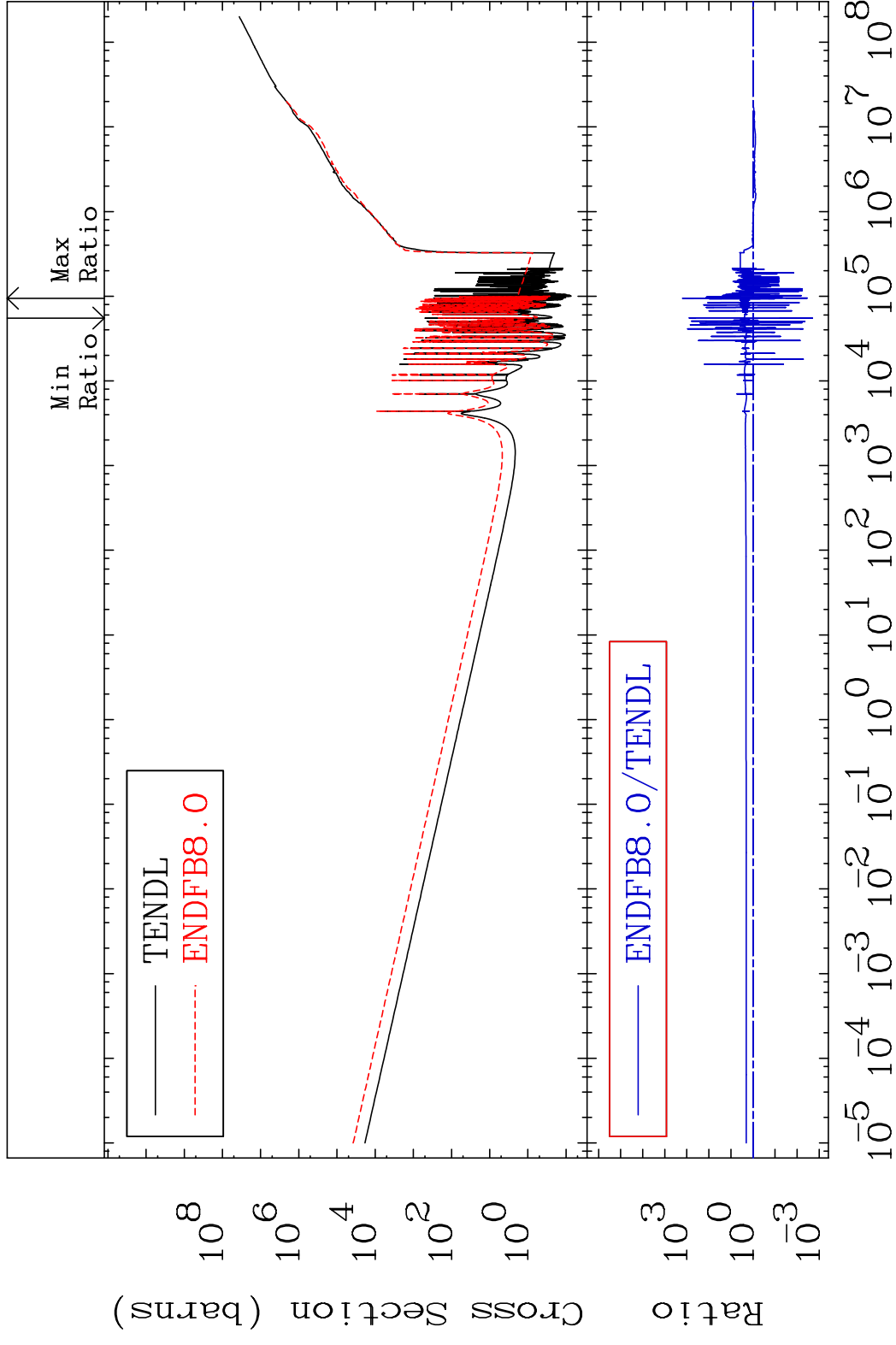
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV)

35

Incident Energy (eV)

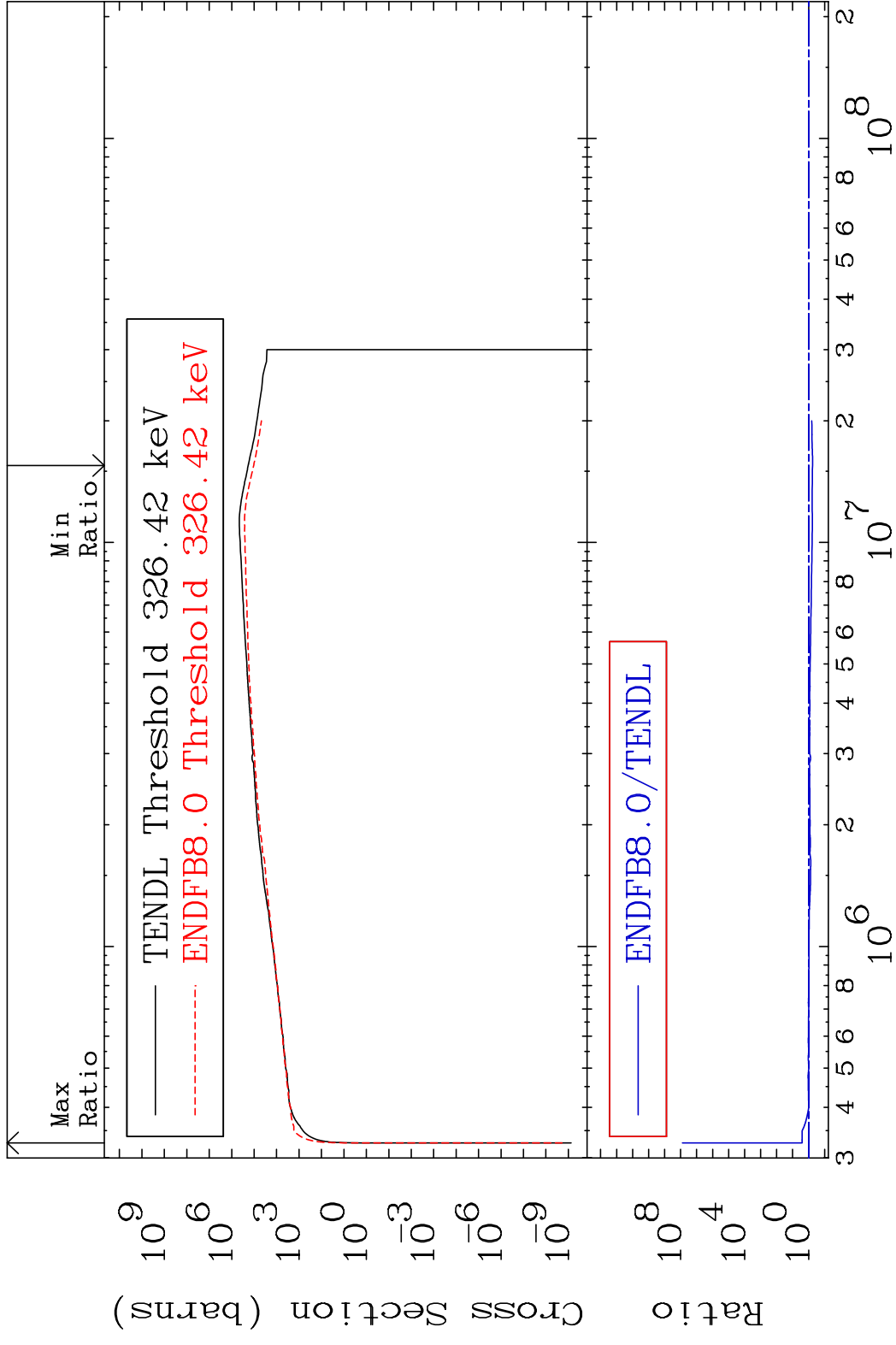
23-V -51

MAT 2328 Kerma non-elastic (all but mt2) 23-V -51
 Cross Section -99.80 To 9999. %

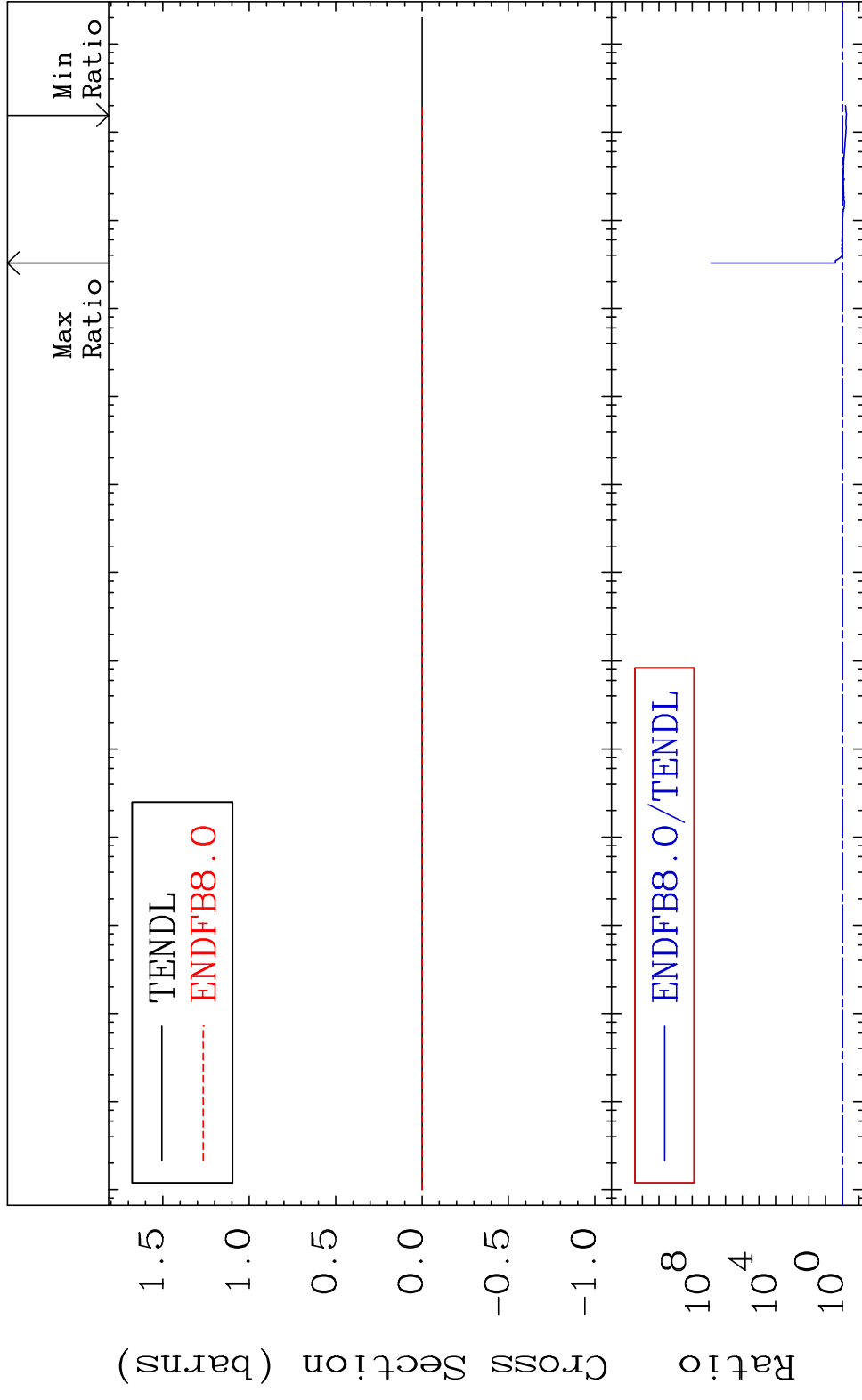


36 Incident Energy (eV) 23-V -51

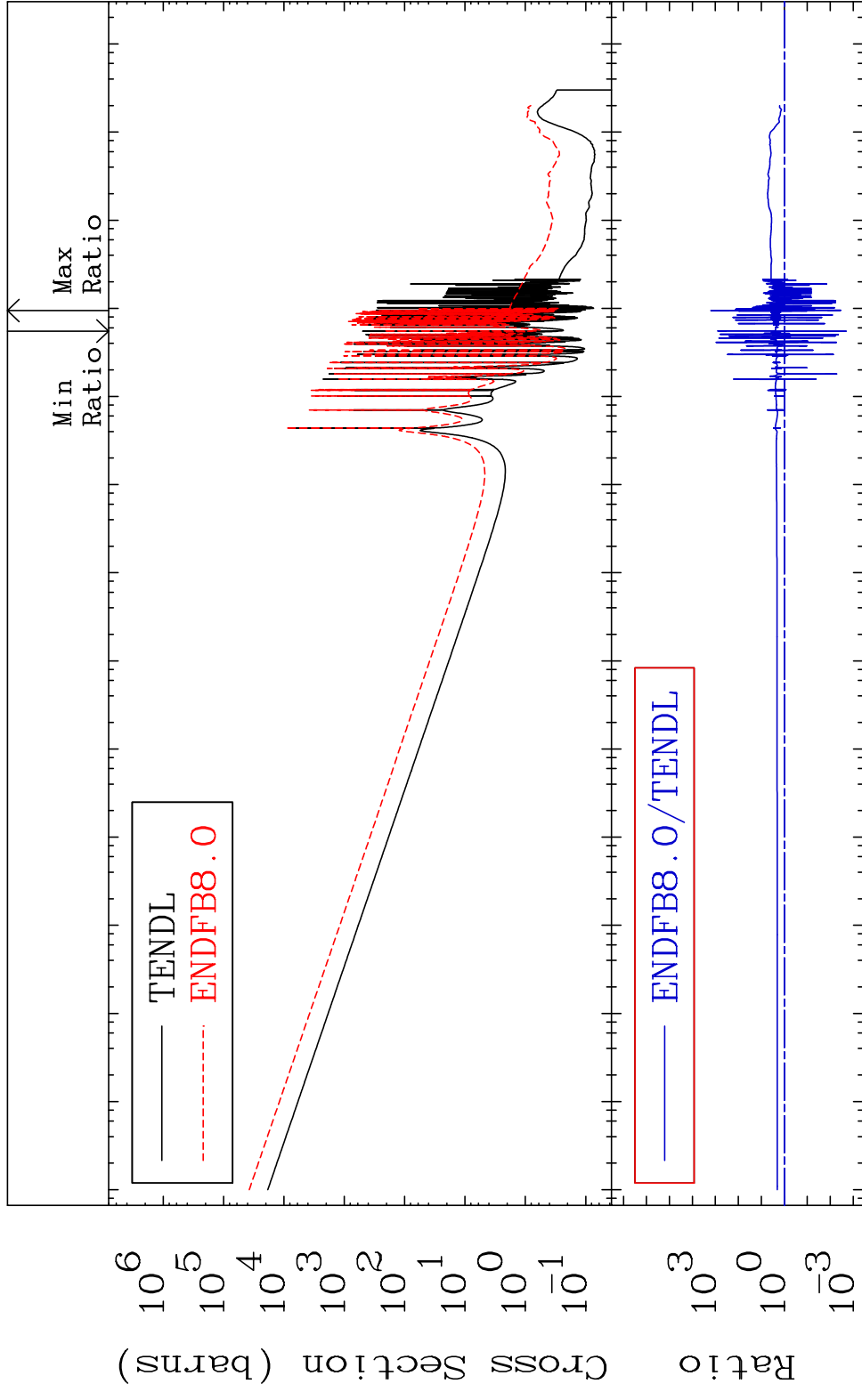
MAT 2328 Kerma inelastic (mt51-91) 23-V -51
 Cross Section -43.03 To 9999. %



MAT 2328 Kerma fission (mt18 or mt19-20-21-38) 23-V -51
 Cross Section -43.03 To 9999. %

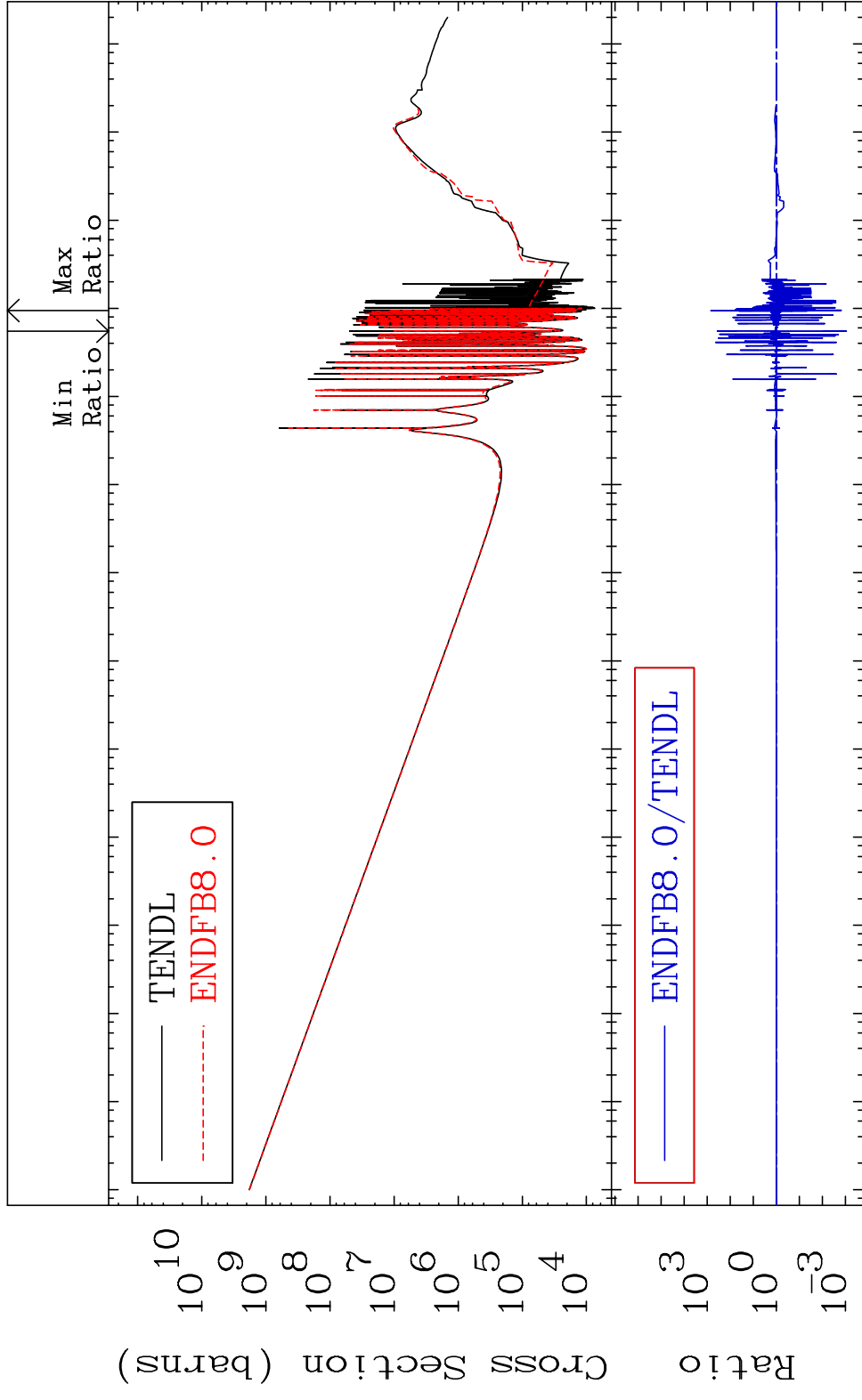


MAT 2328 Kerma capture (mt102) 23-V -51
 Cross Section -99.80 To 9999. %



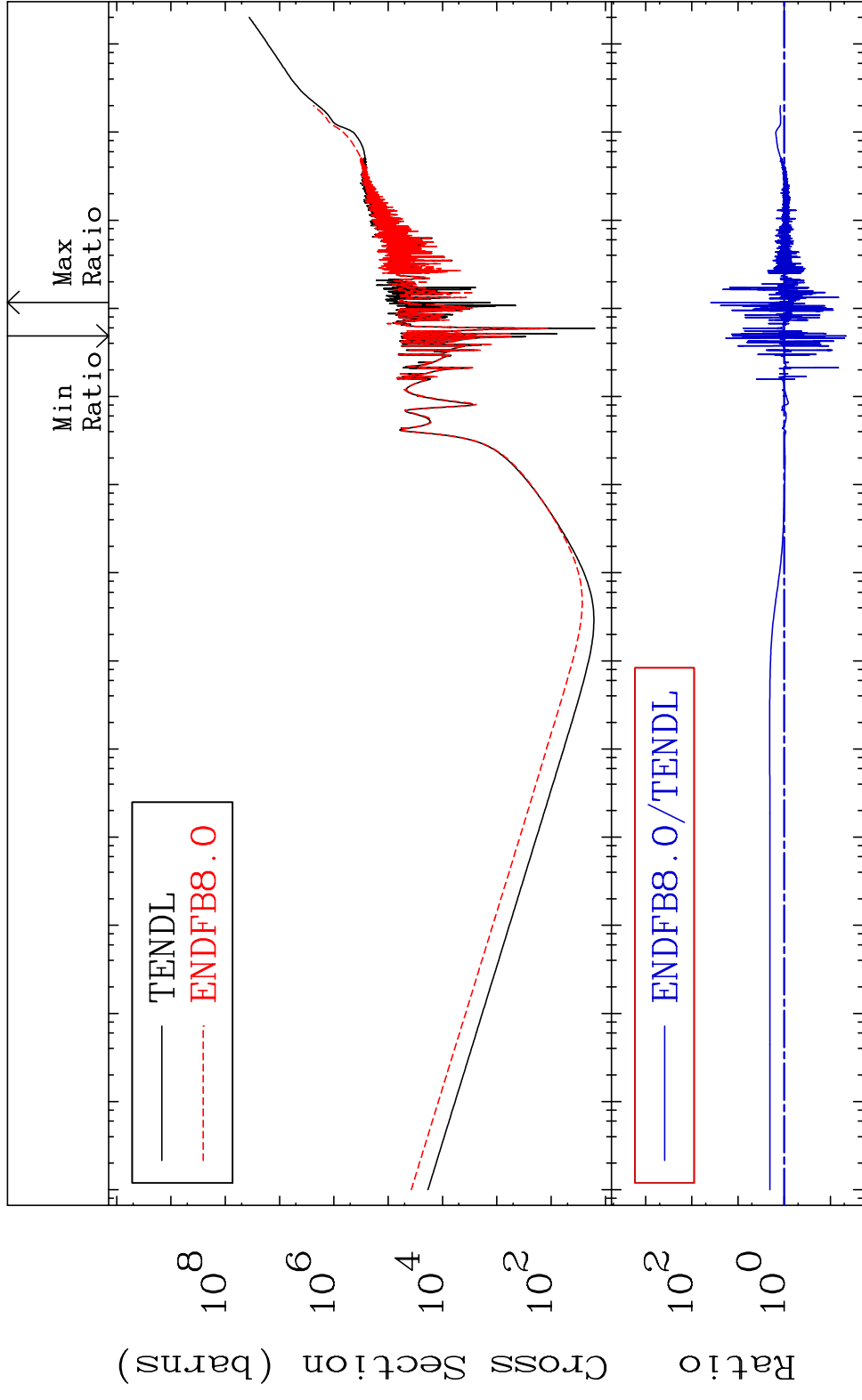
39 Incident Energy (eV) 23-V -51

MAT 2328 Total photon (eV-barns) 23-V -51
 Cross Section -99.91 To 9999. %



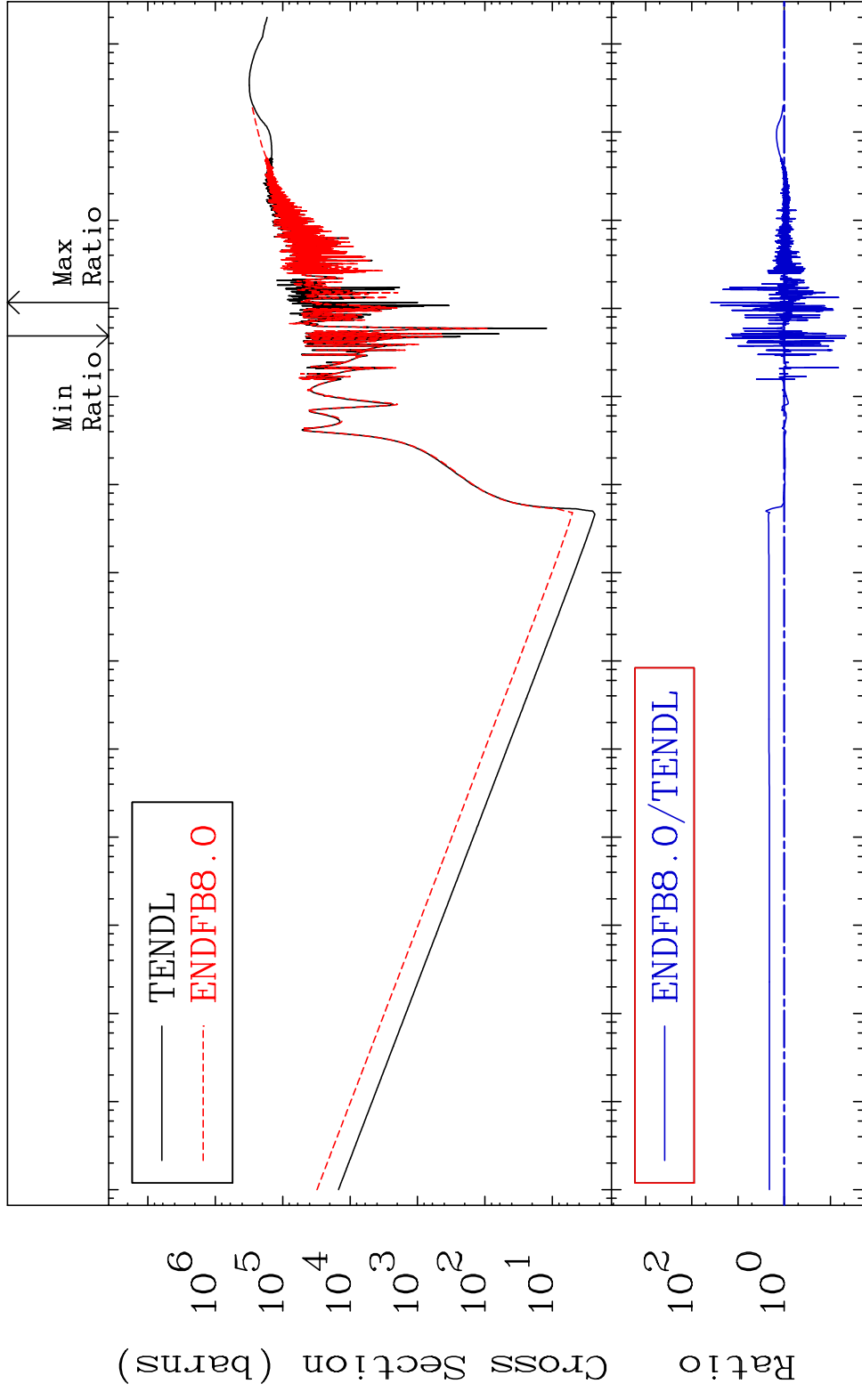
40 Incident Energy (eV) 23-V -51

MAT 2328 Total kinematic kerma (high limit) 23-V -51
 Cross Section -95.49 To 3801. %



41 Incident Energy (eV) 23-V -51

MAT 2328 Dpa total (eV-barns) 23-V -51
 Cross Section -95.49 To 3801. %



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

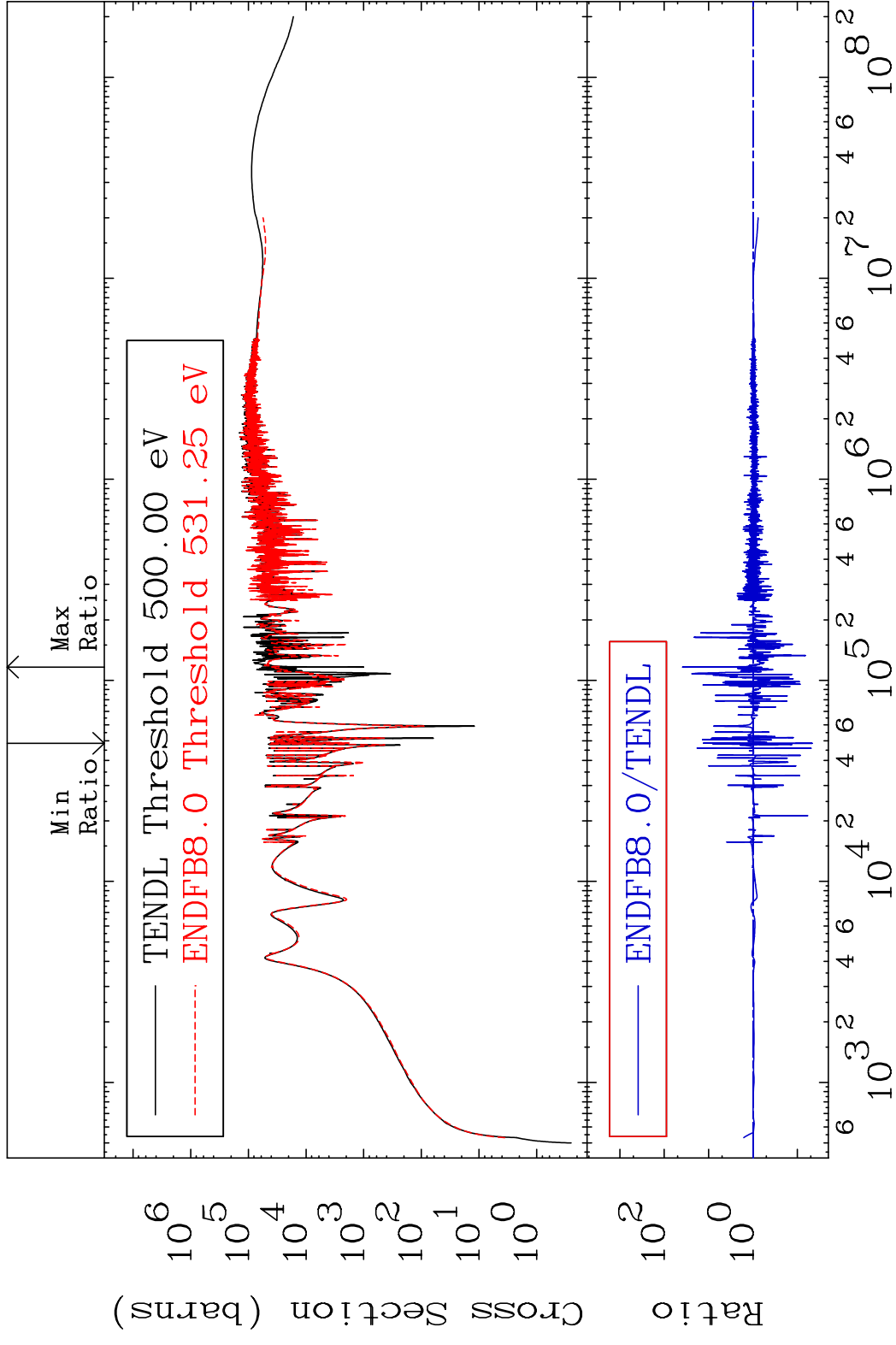
42 Incident Energy (eV) 23-V -51

MAT 2328

Dpa elastic (mt2)

23-V -51

Cross Section -95.46 To 3809. %

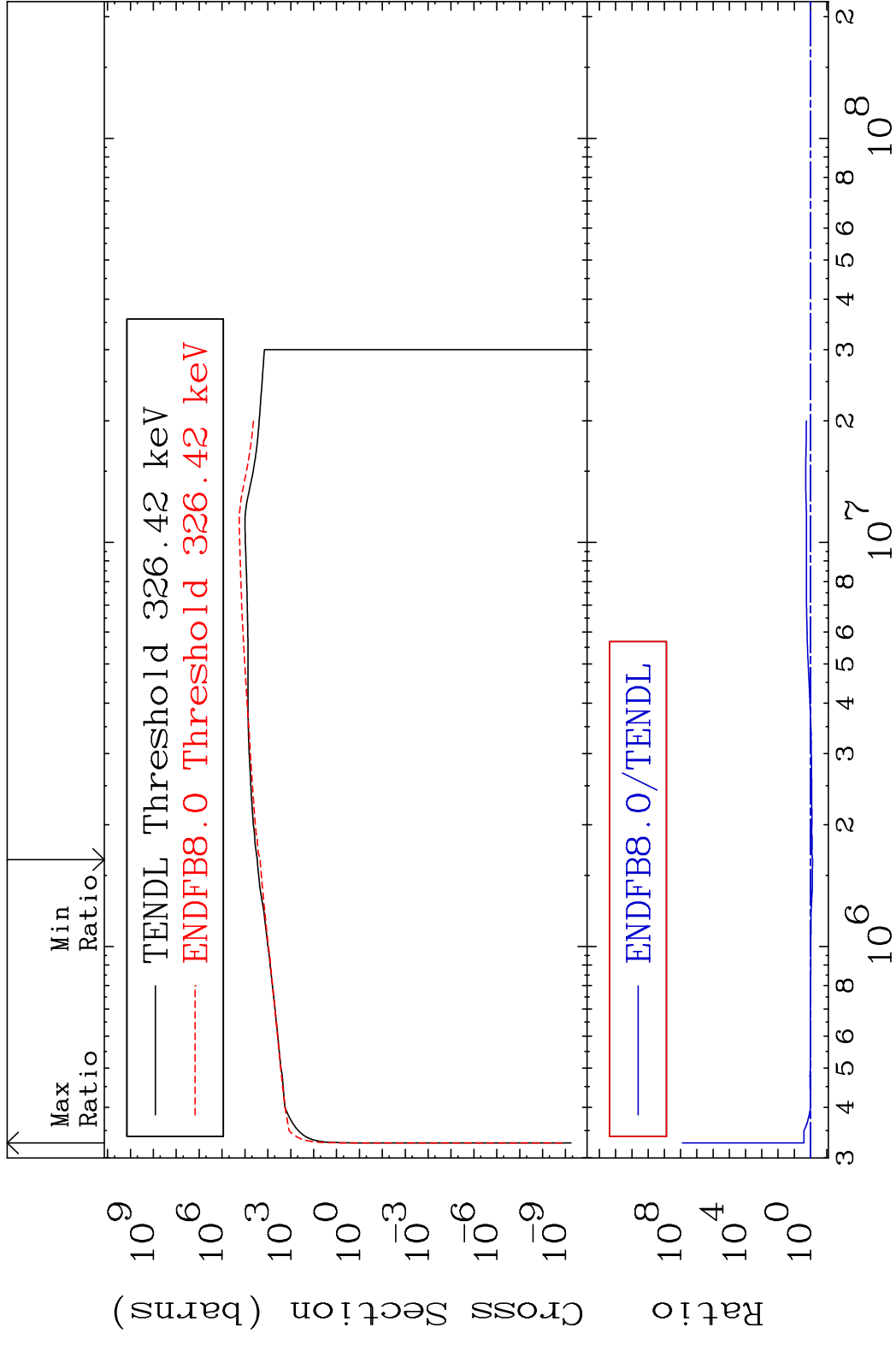


43

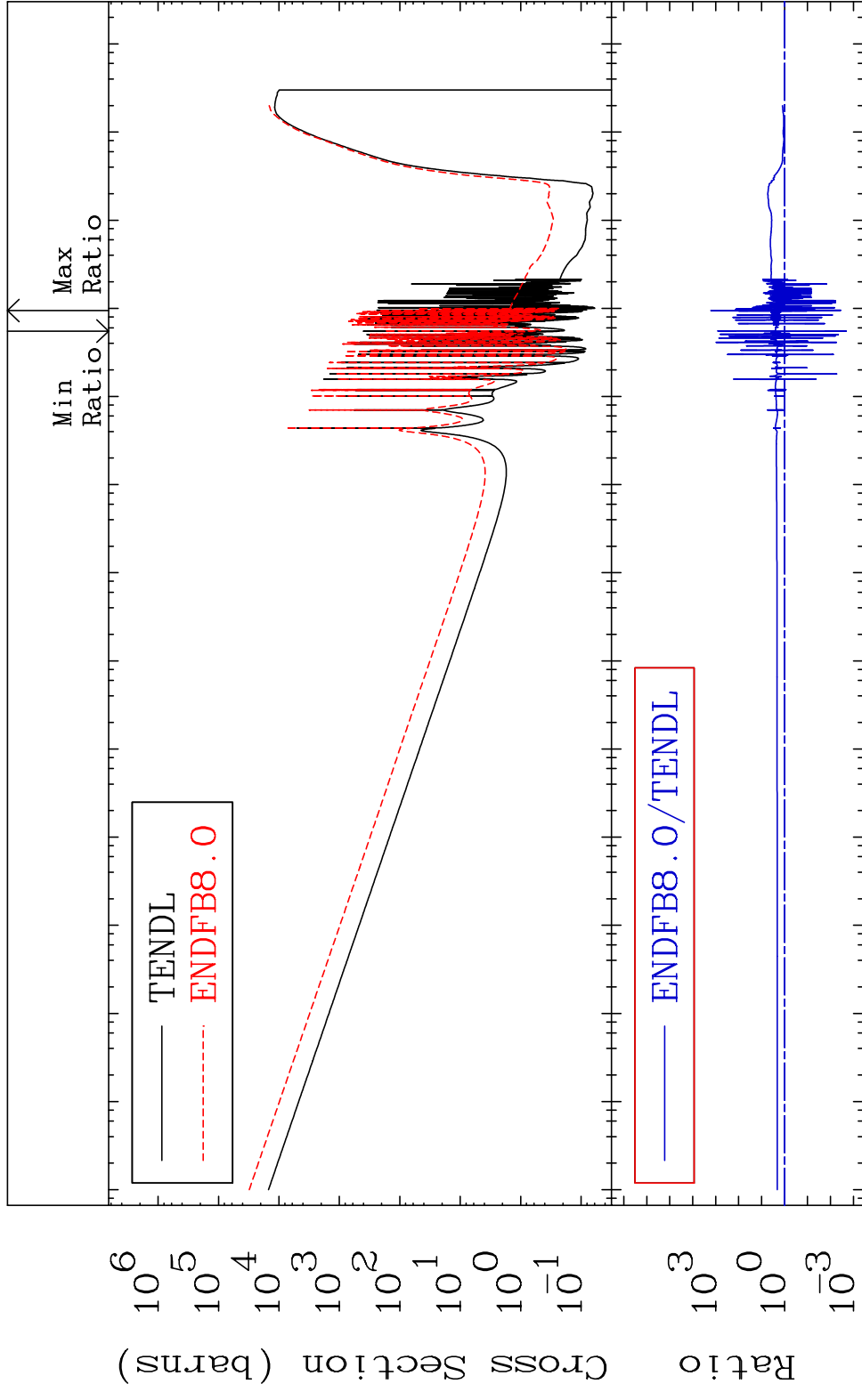
Incident Energy (eV)

23-V -51

MAT 2328 Dpa inelastic (mt51-91) 23-V -51
 Cross Section -25.24 To 9999. %



MAT 2328 Dpa disappearance (mt102 -120) 23-V -51
 Cross Section -99.80 To 9999. %



45 Incident Energy (eV) 23-V -51