

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

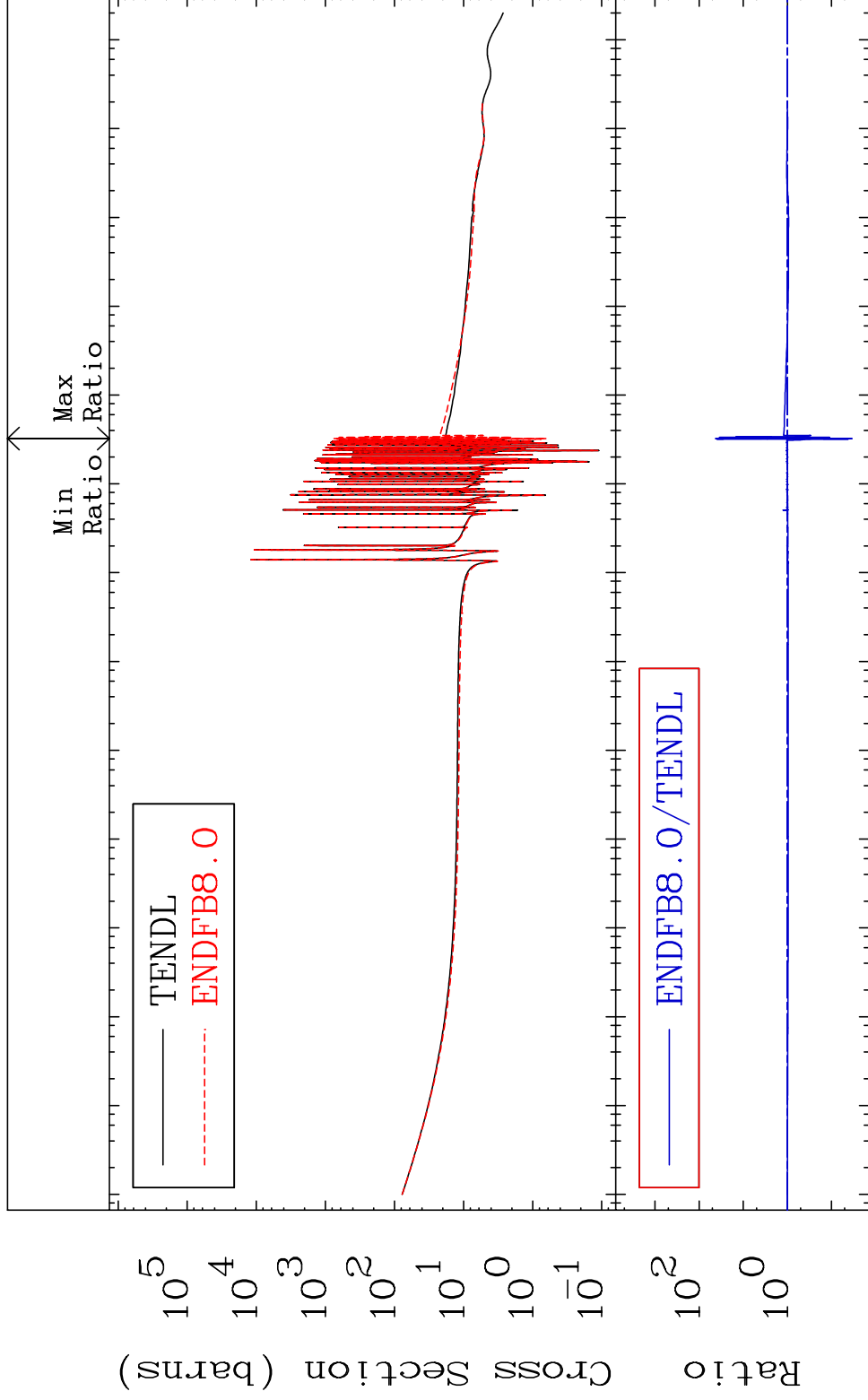
Press Mouse Button to Start

MAT 7037

Total

70-Yb-172

Cross Section -96.62 To 4122. %



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

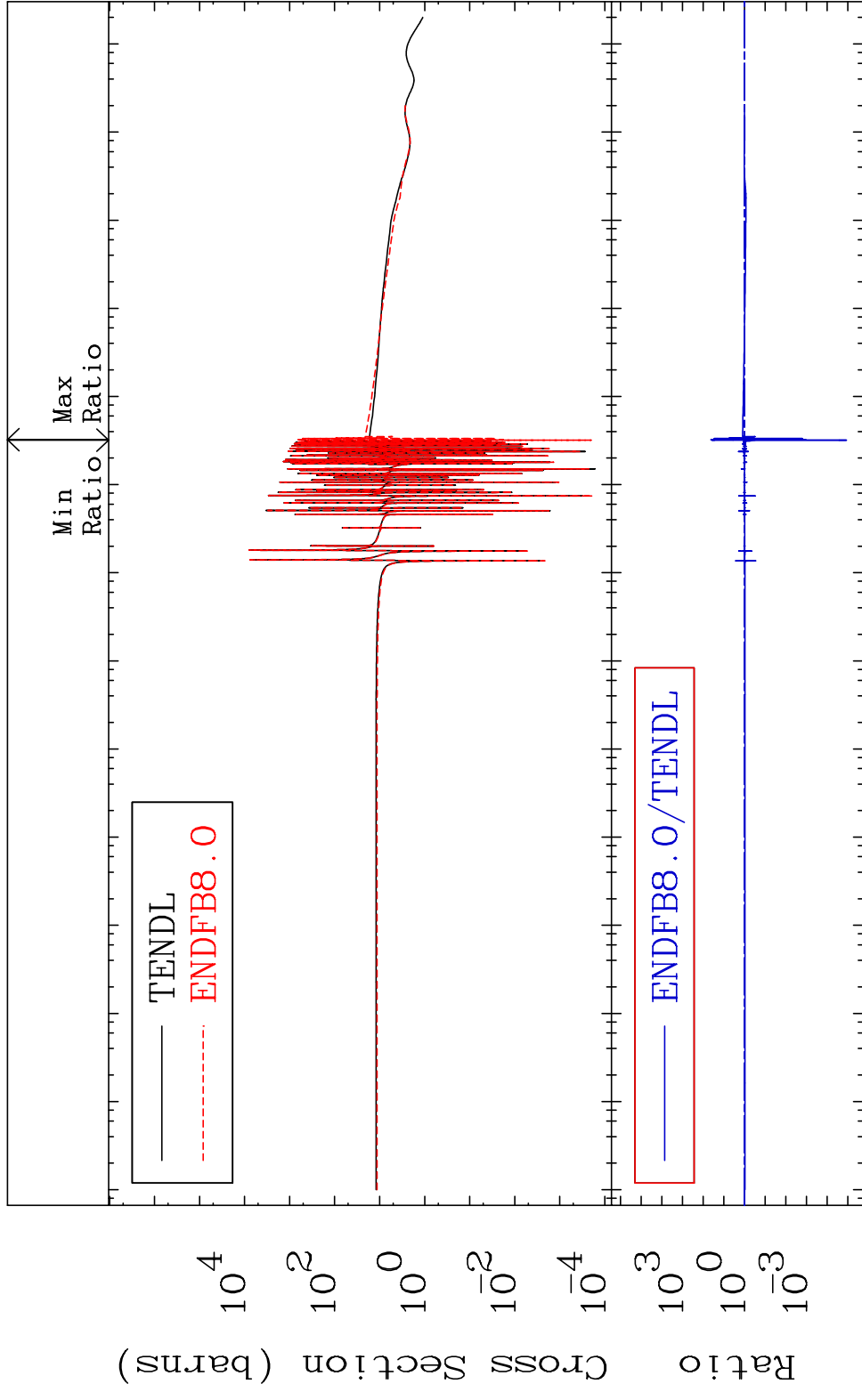
1 Incident Energy (eV) 70-Yb-172

MAT 7037

Elastic

70-Yb-172

Cross Section -100.0 To 4217. %



2

Incident Energy (eV)

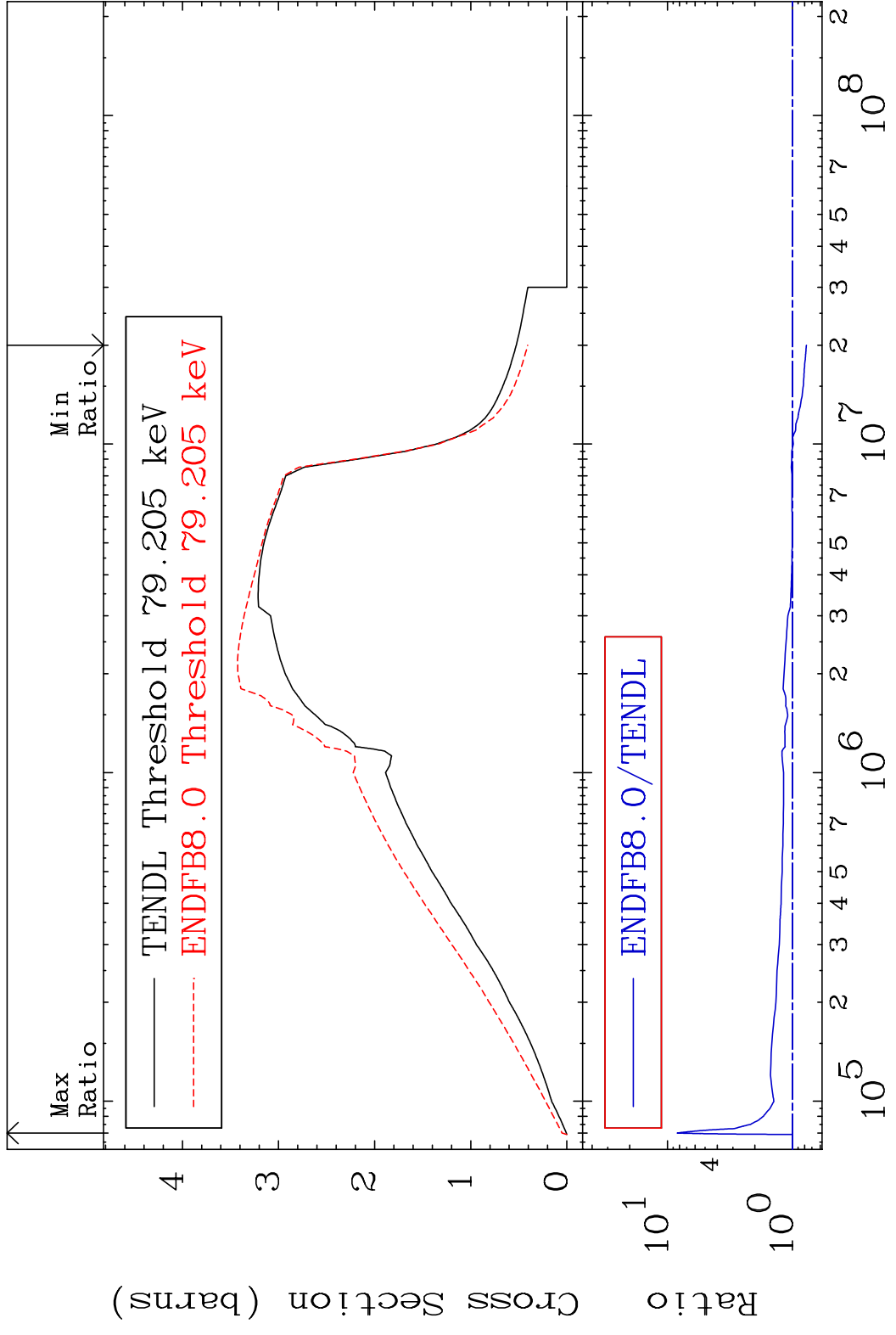
70-Yb-172

MAT 7037

Inelastic

70-Yb-172

Cross Section -22.68 To 735.5 %



3

Incident Energy (eV)

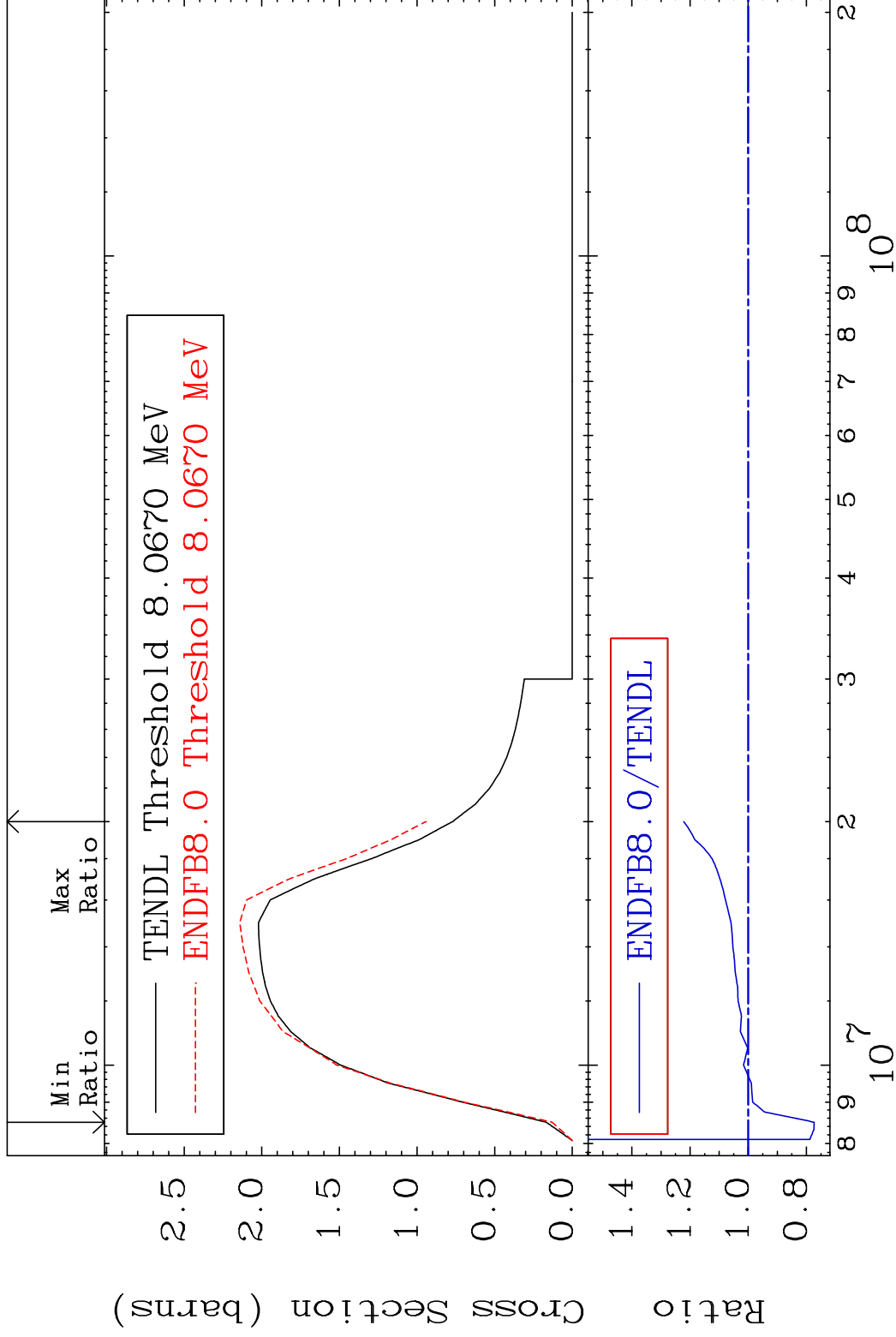
70-Yb-172

MAT 7037

(n,2n)

70-Yb-172

Cross Section -22.65 To 22.21 %



4

Incident Energy (eV)

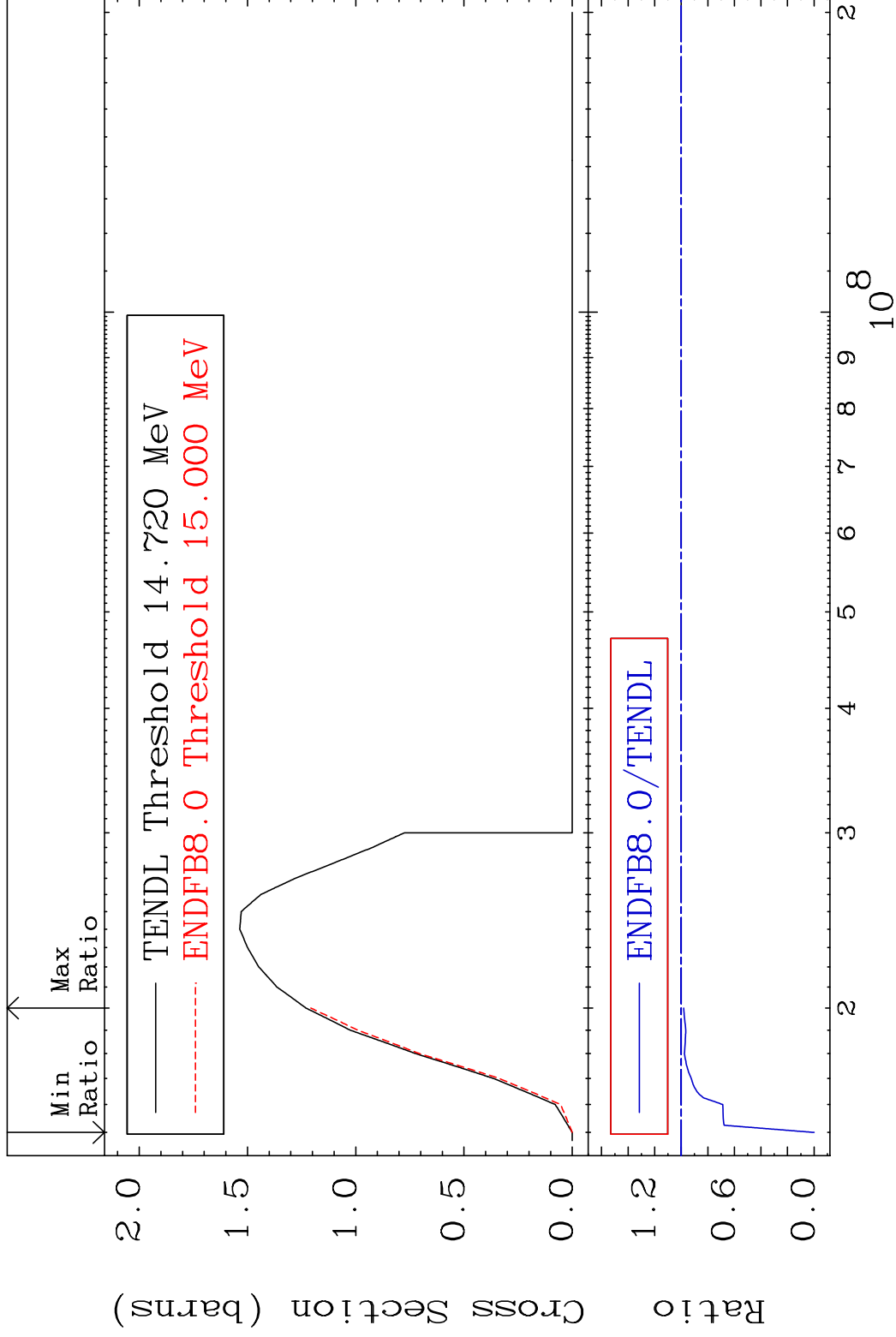
70-Yb-172

MAT 7037

(n,3n)

70-Yb-172

Cross Section -100.0 To -1.816%



5

Incident Energy (eV)

70-Yb-172

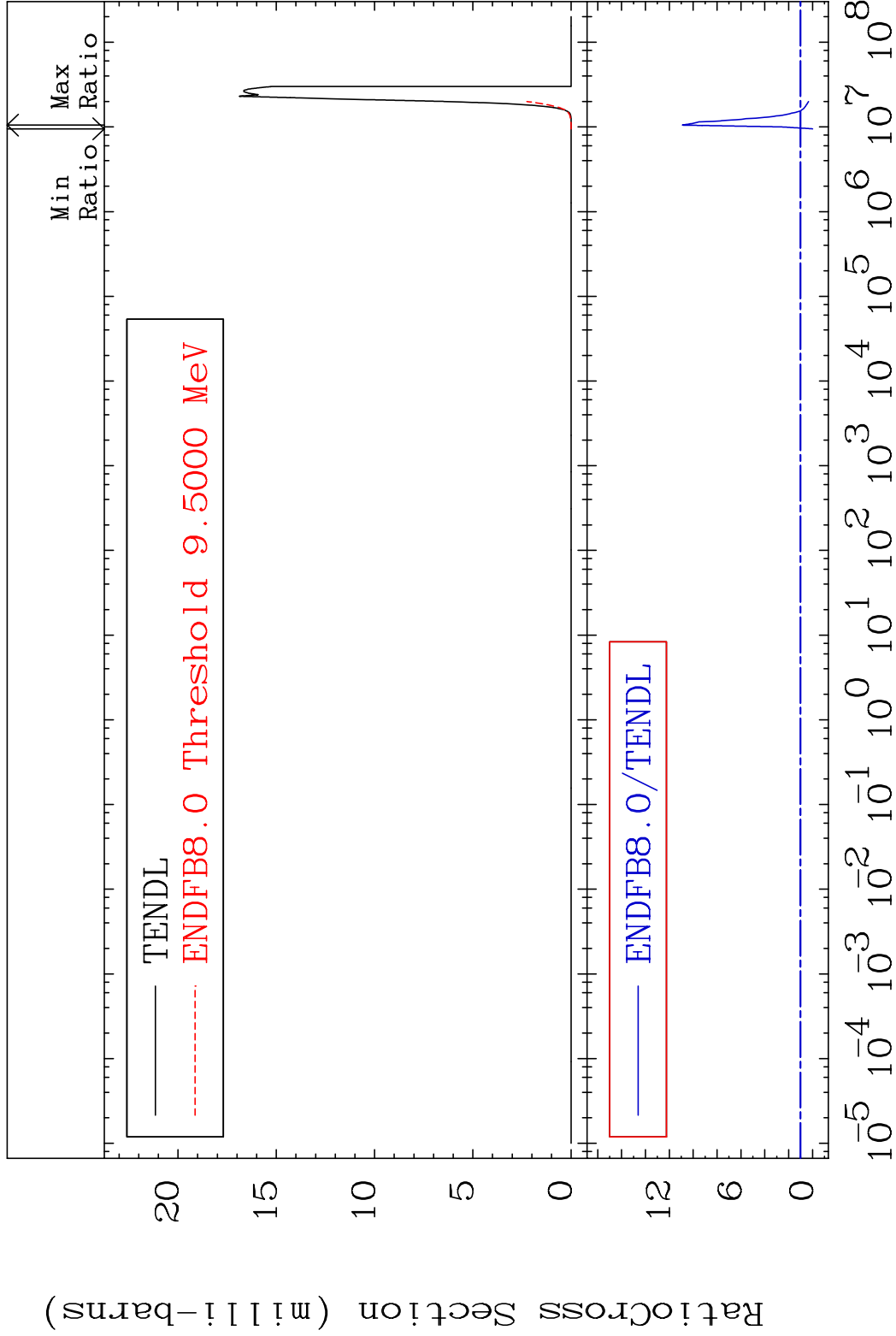
MAT 7037

(n, n') α

70-Yb-172

Cross Section

-100.0 To 990.8 %



6

Incident Energy (eV)

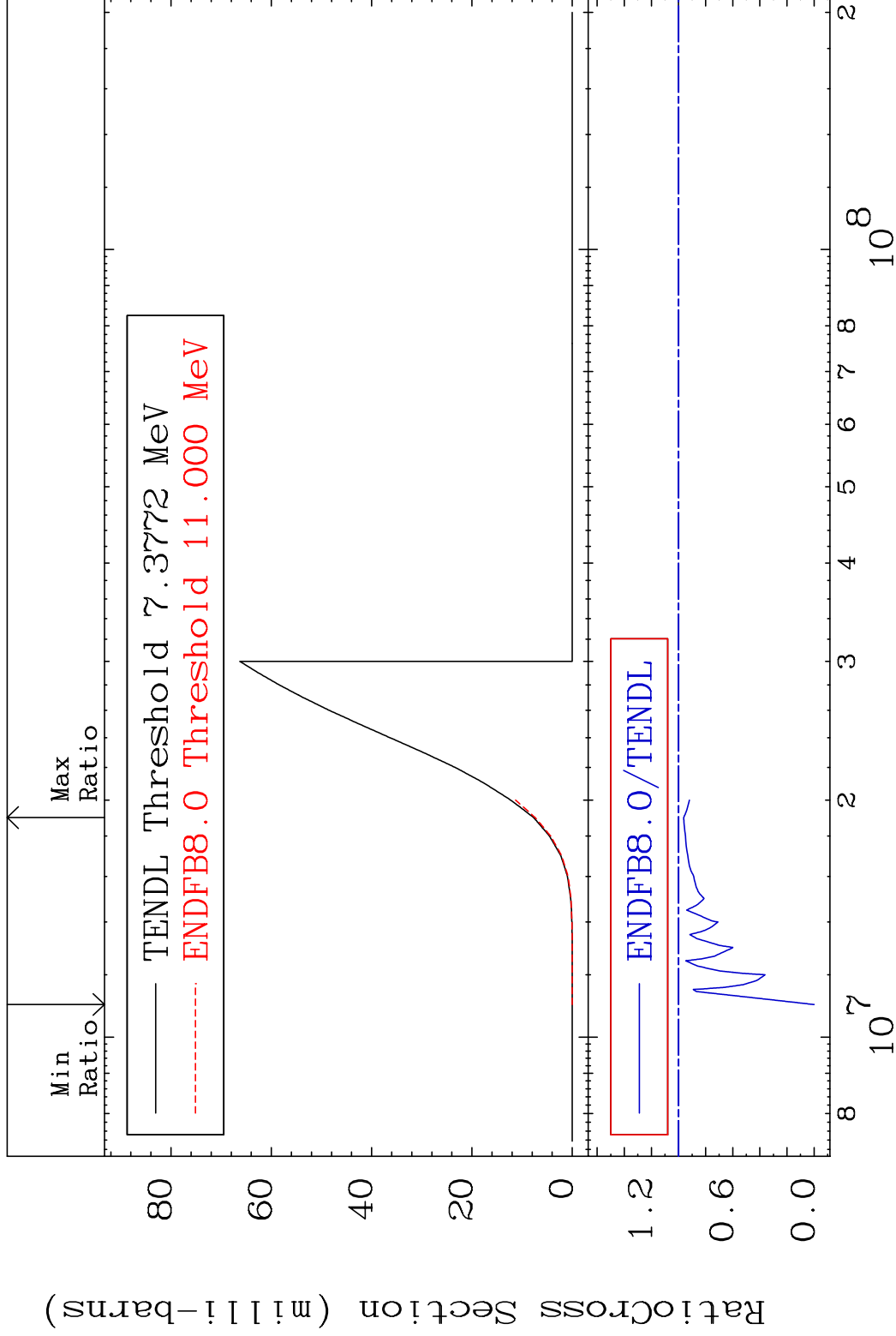
70-Yb-172

MAT 7037

(n, n') p

70-Yb-172

Cross Section -100.0 To -3.774%



7

Incident Energy (eV)

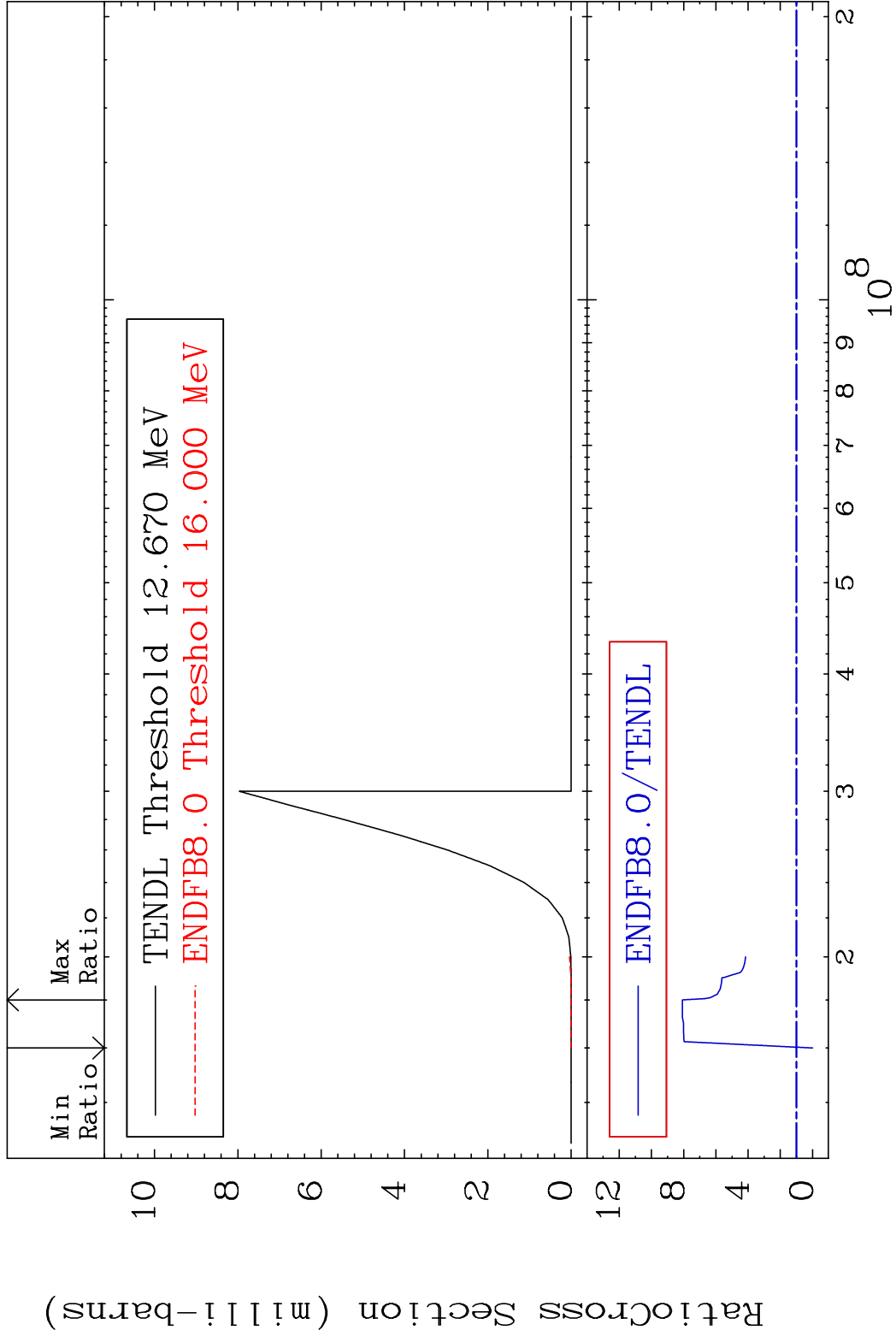
70-Yb-172

MAT 7037

(n, n') d

70-Yb-172

Cross Section -100.0 To 708.1 %

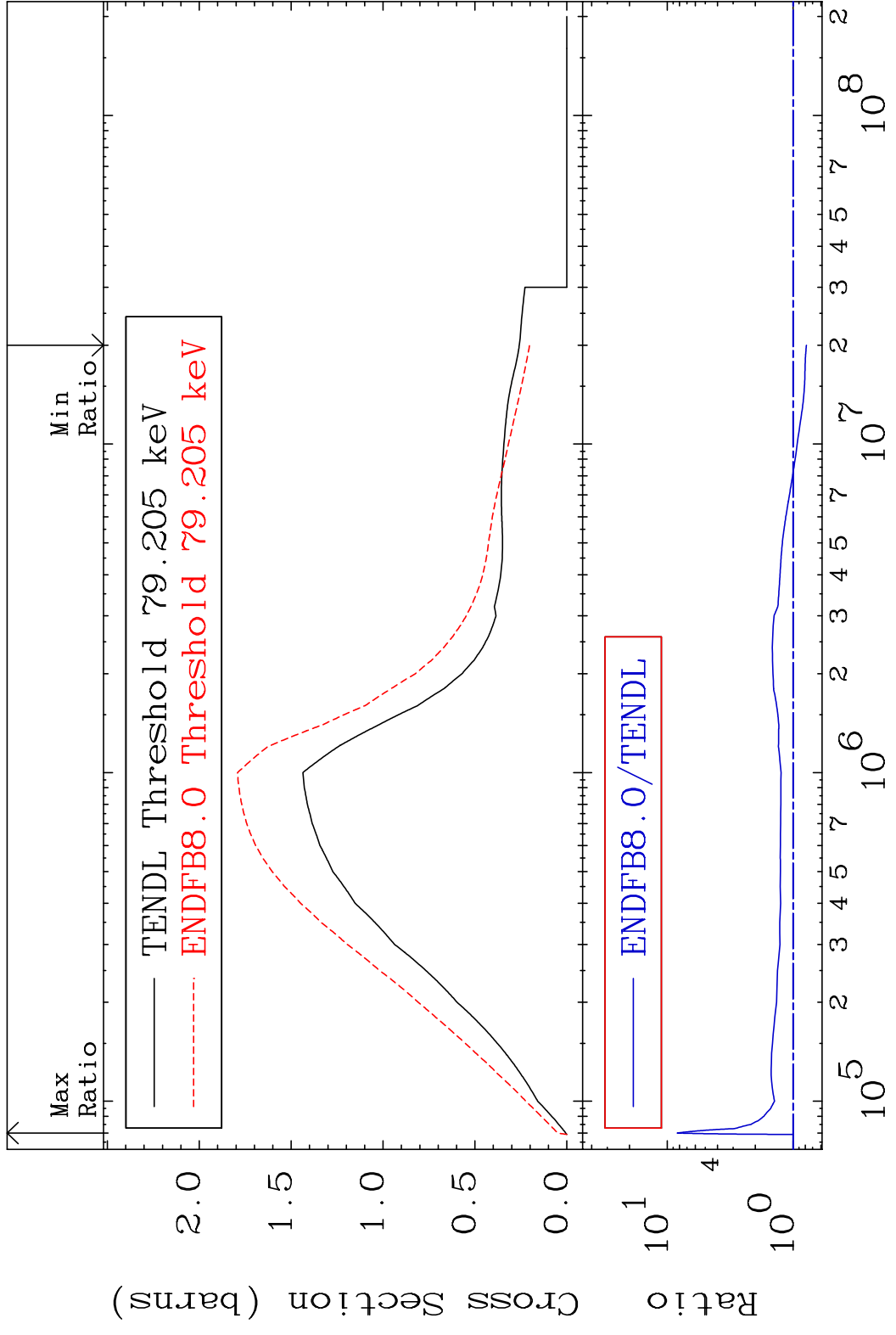


8

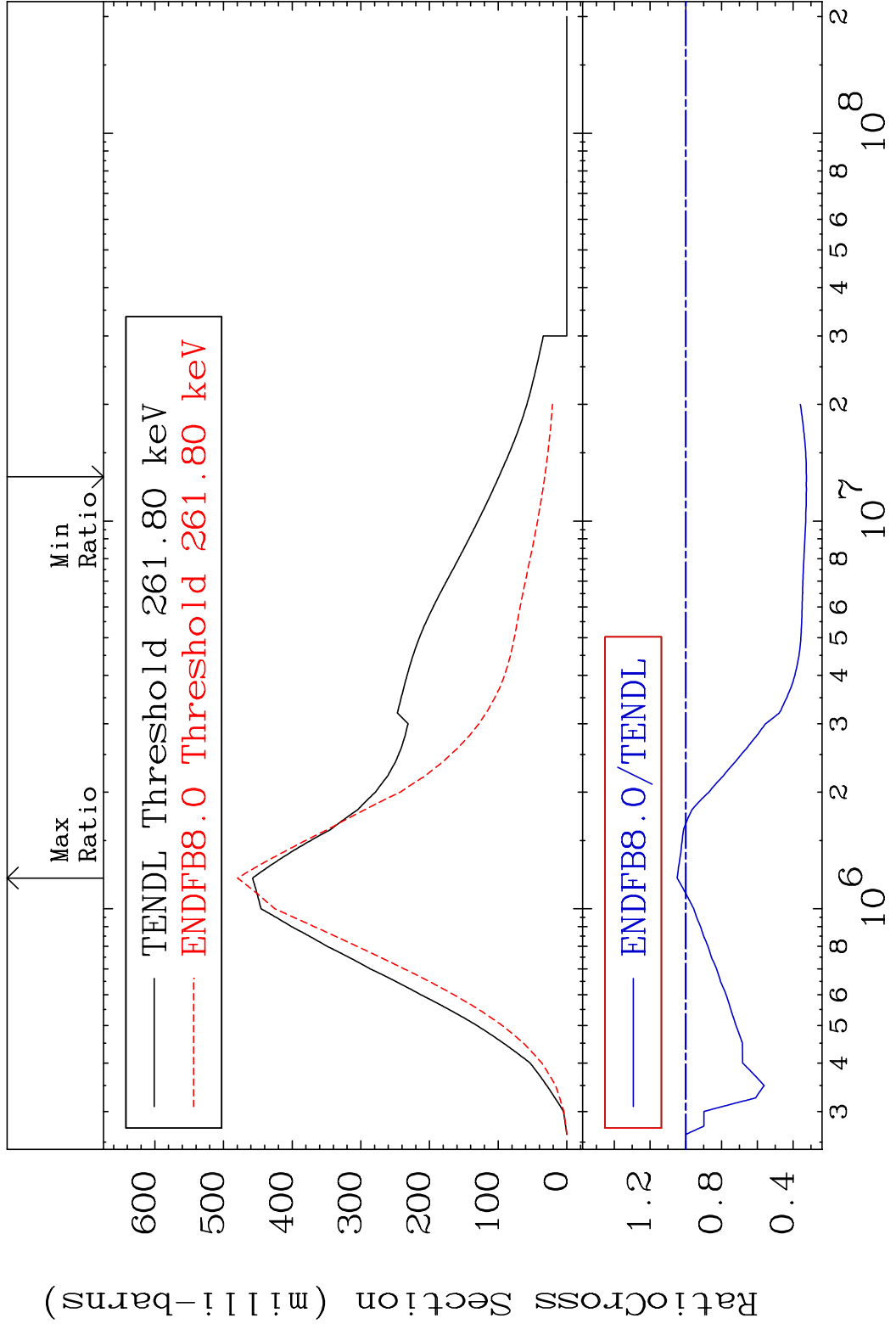
Incident Energy (eV)

70-Yb-172

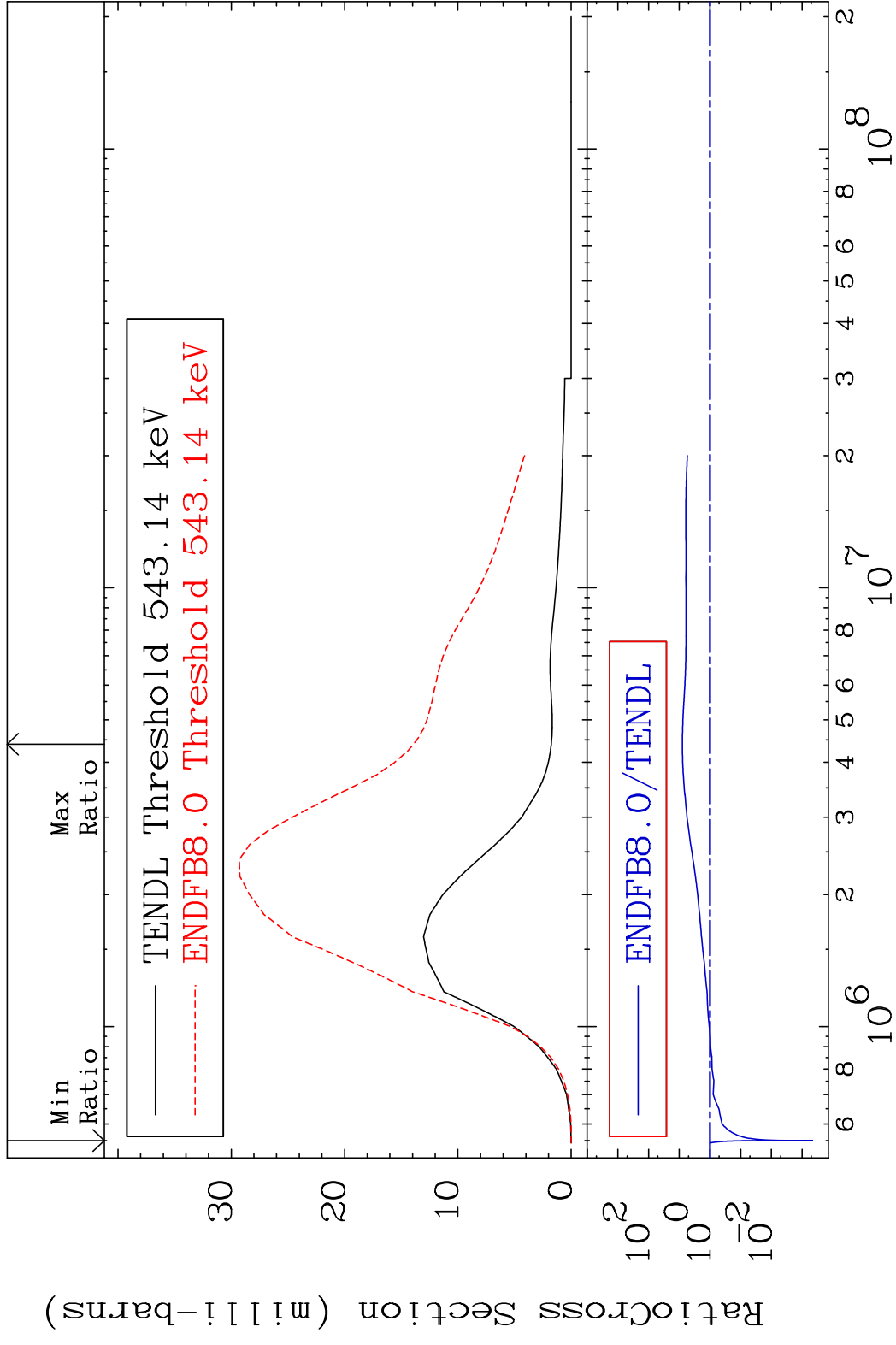
MAT 7037 MT= 51 (n,n') Level 70-Yb-172
 Cross Section -21.58 To 735.5 %



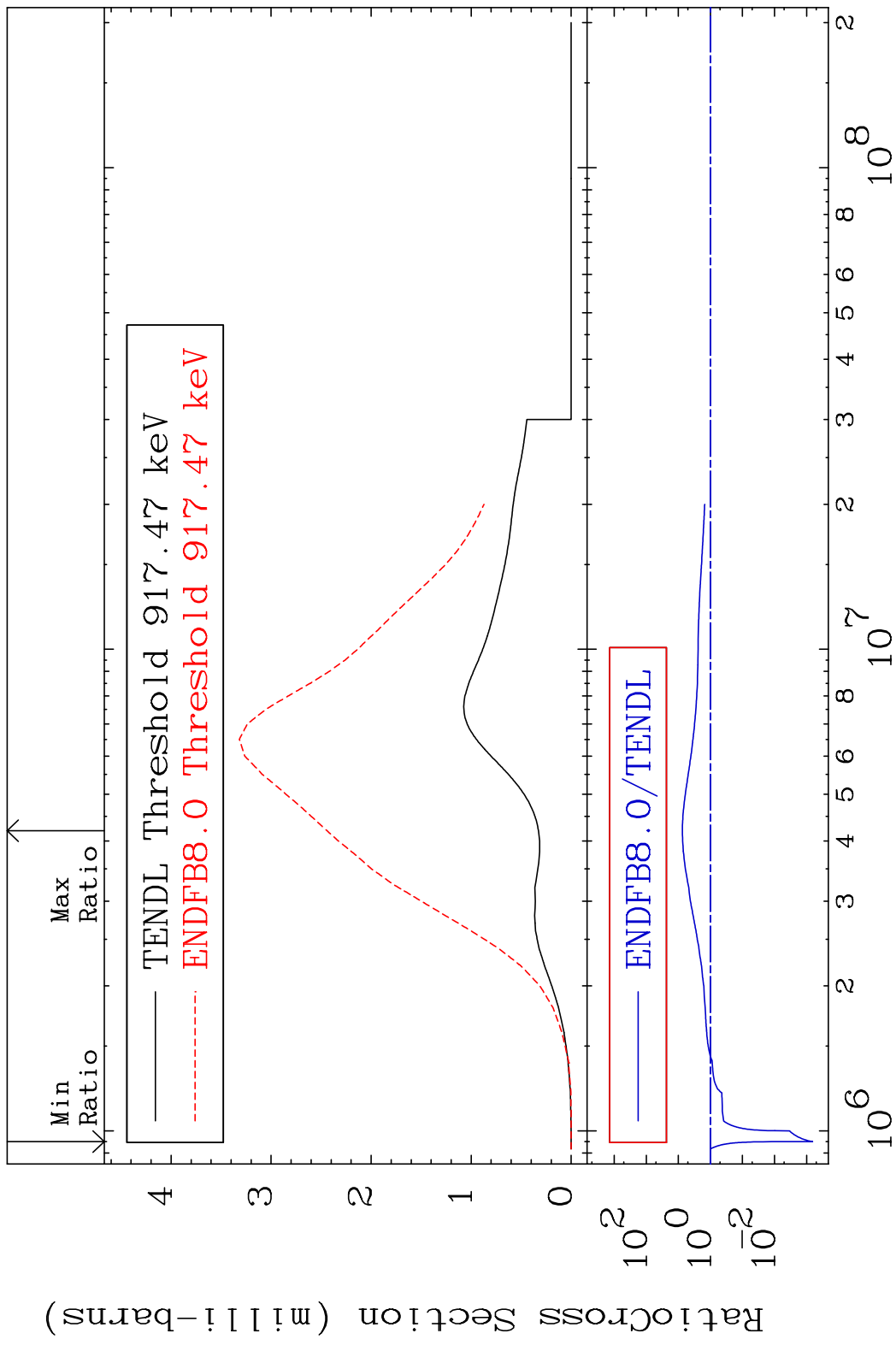
MAT 7037 MT= 52 (n, n') Level 70-Yb-172
 Cross Section -67.48 To 4.792 %



MAT 7037 MT= 53 (n, n') Level 70-Yb-172
 Cross Section -99.95 To 694.3 %

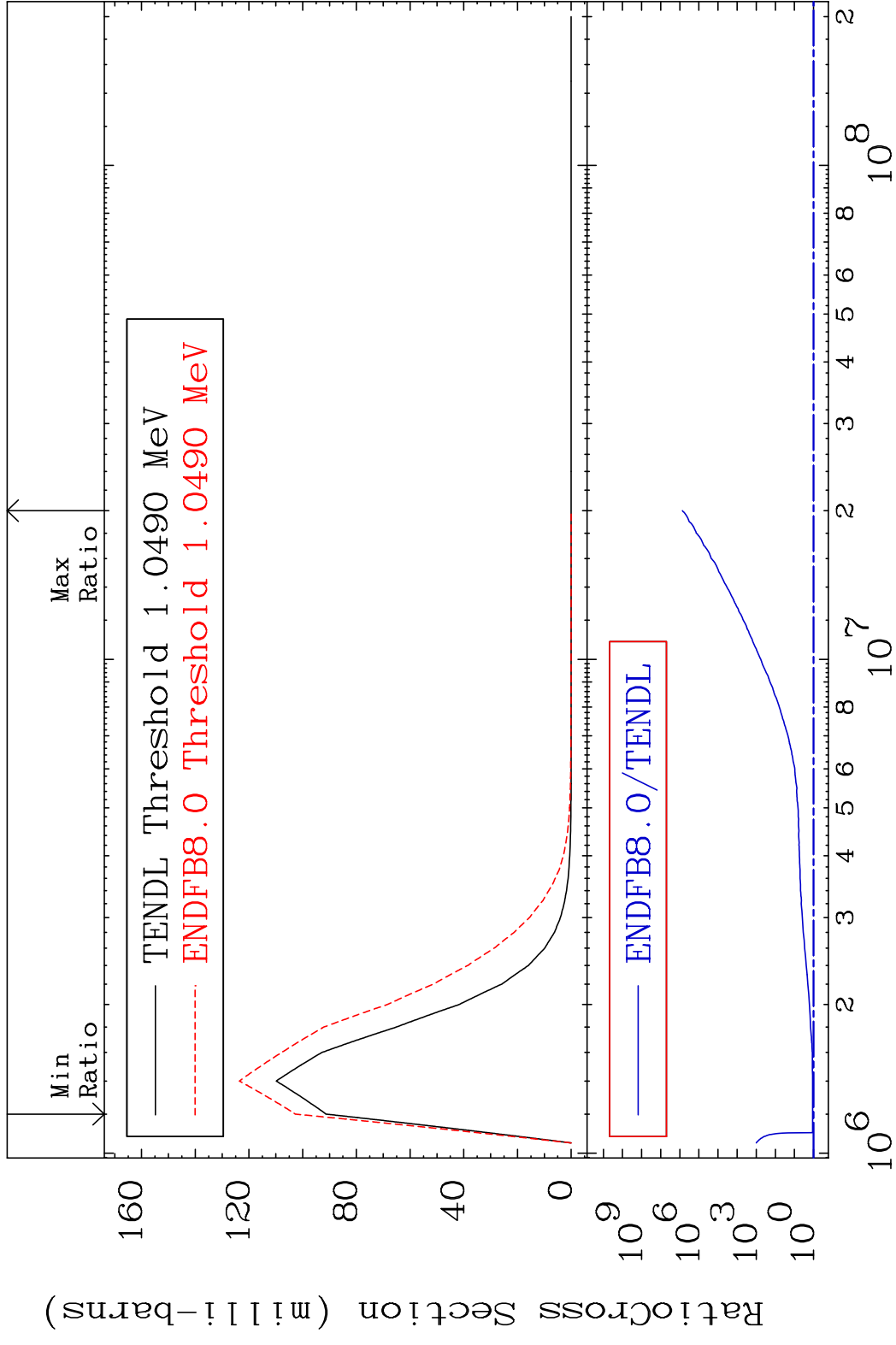


MAT 7037 MT= 54 (n, n') Level 70-Yb-172
 Cross Section -99.93 To 648.1 %

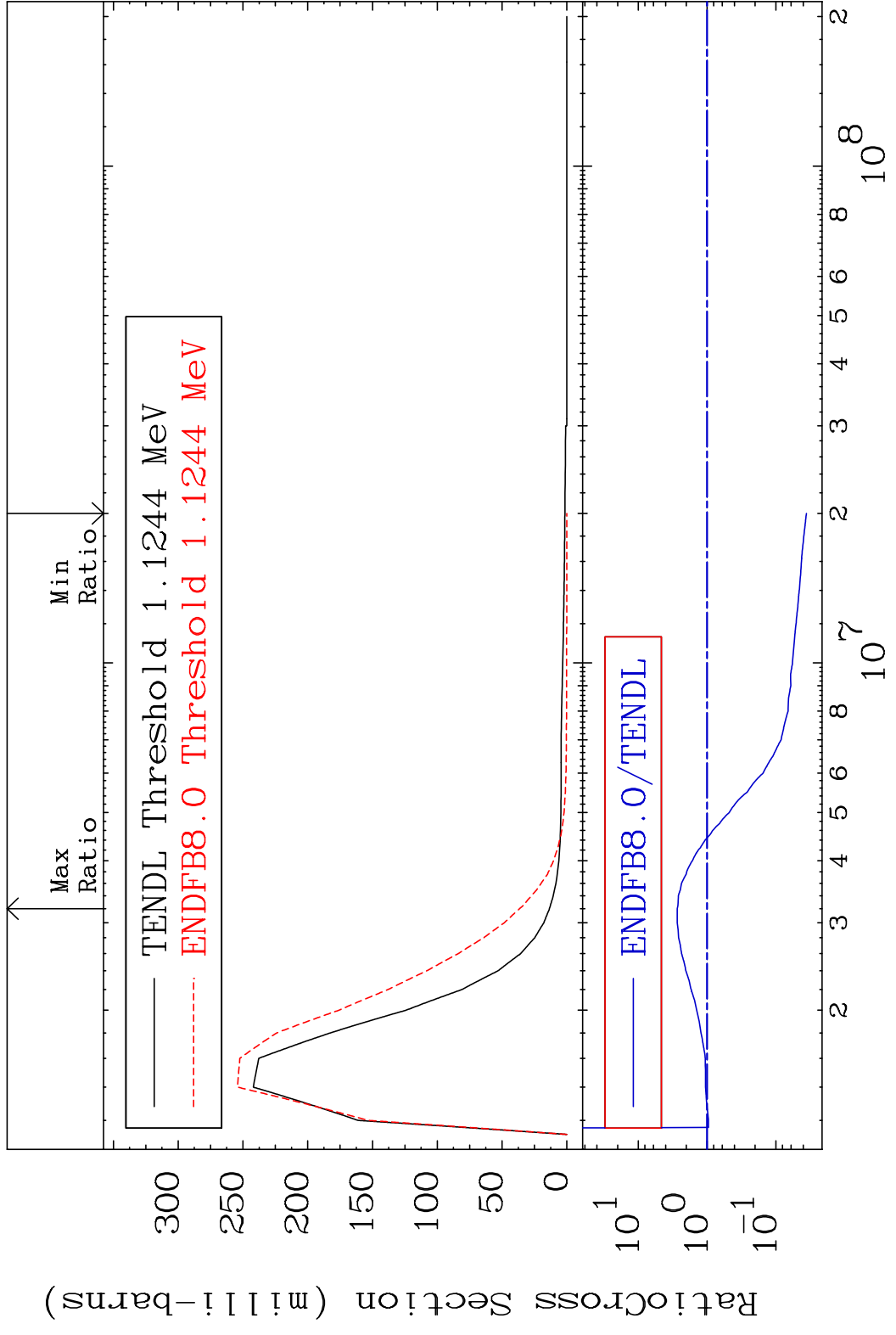


12 Incident Energy (eV) 70-Yb-172

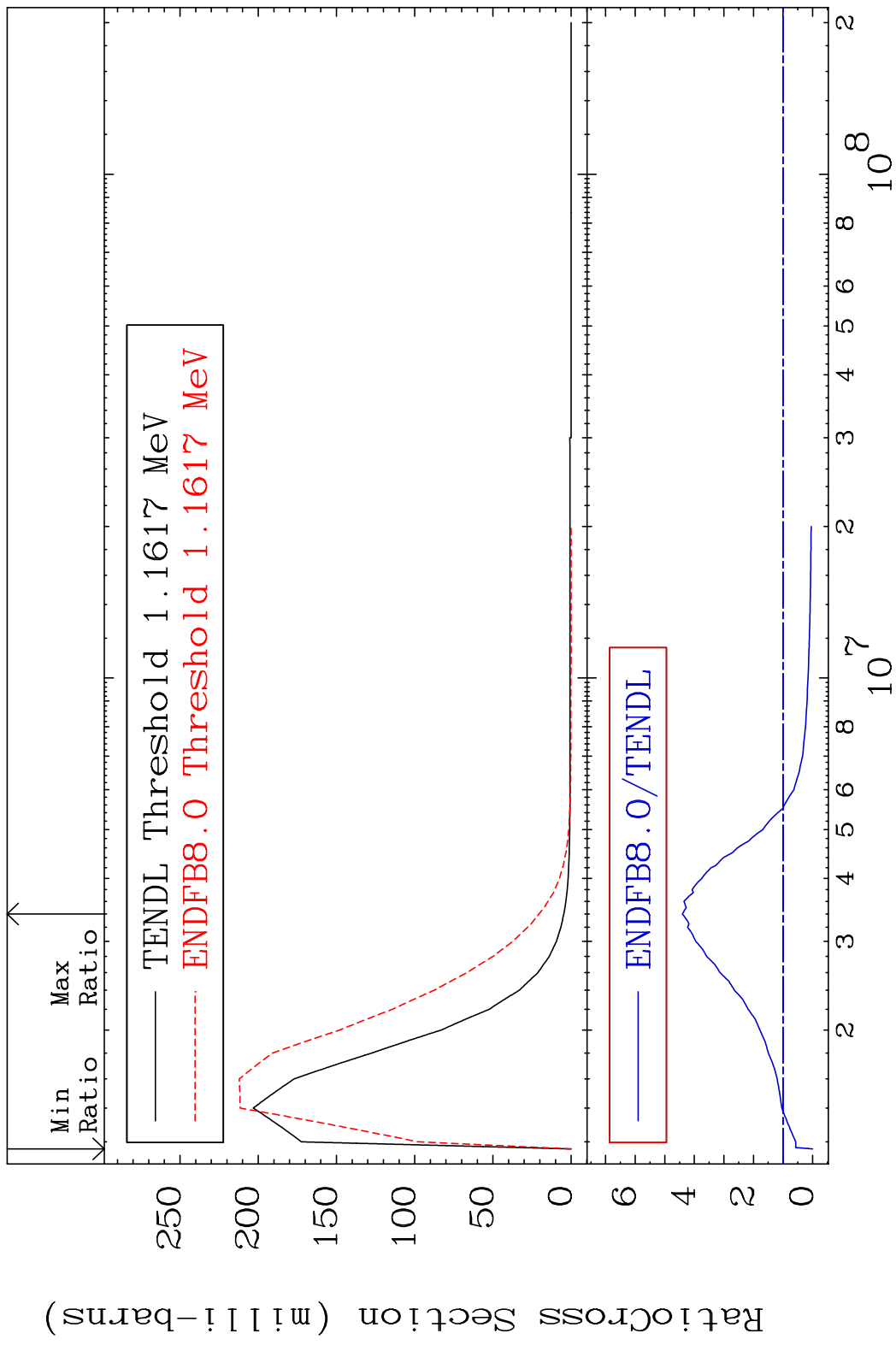
MAT 7037 MT= 55 (n, n') Level 70-Yb-172
 Cross Section 12.50 To 9999. %



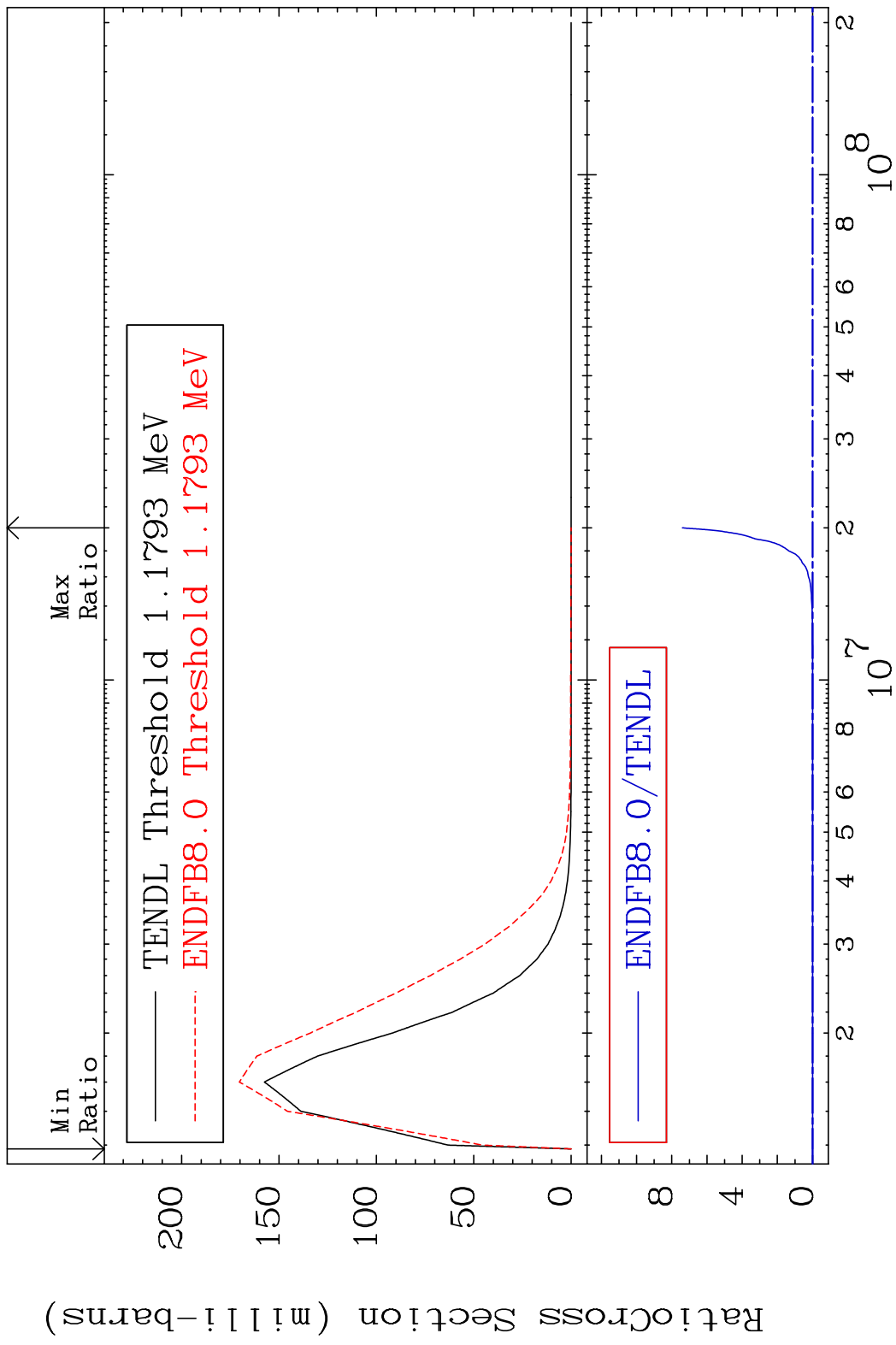
MAT 7037 MT= 56 (n, n') Level 70-Yb-172
 Cross Section -96.41 To 172.0 %



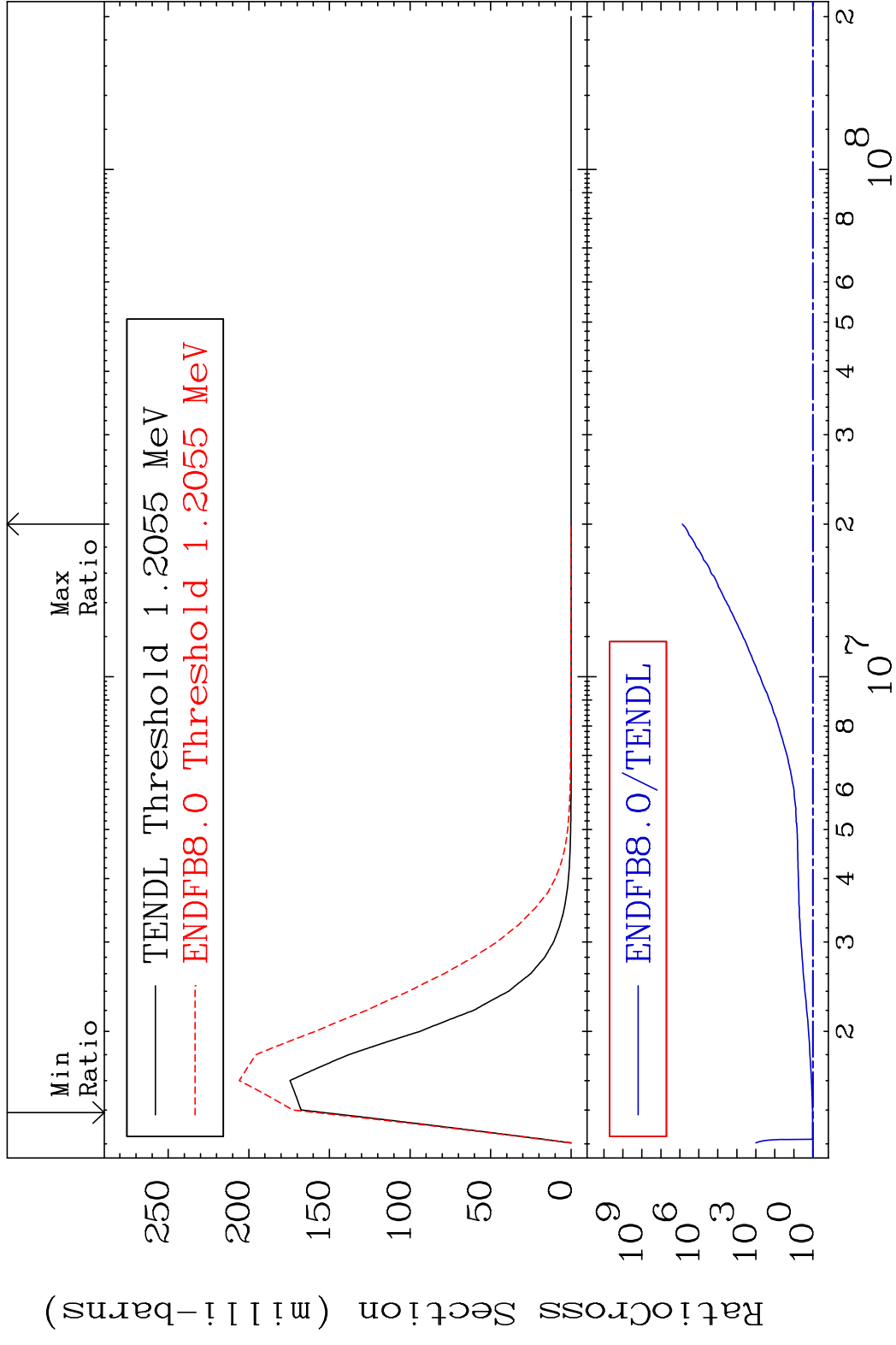
MAT 7037 MT= 57 (n, n') Level 70-Yb-172
 Cross Section -100.0 To 340.5 %



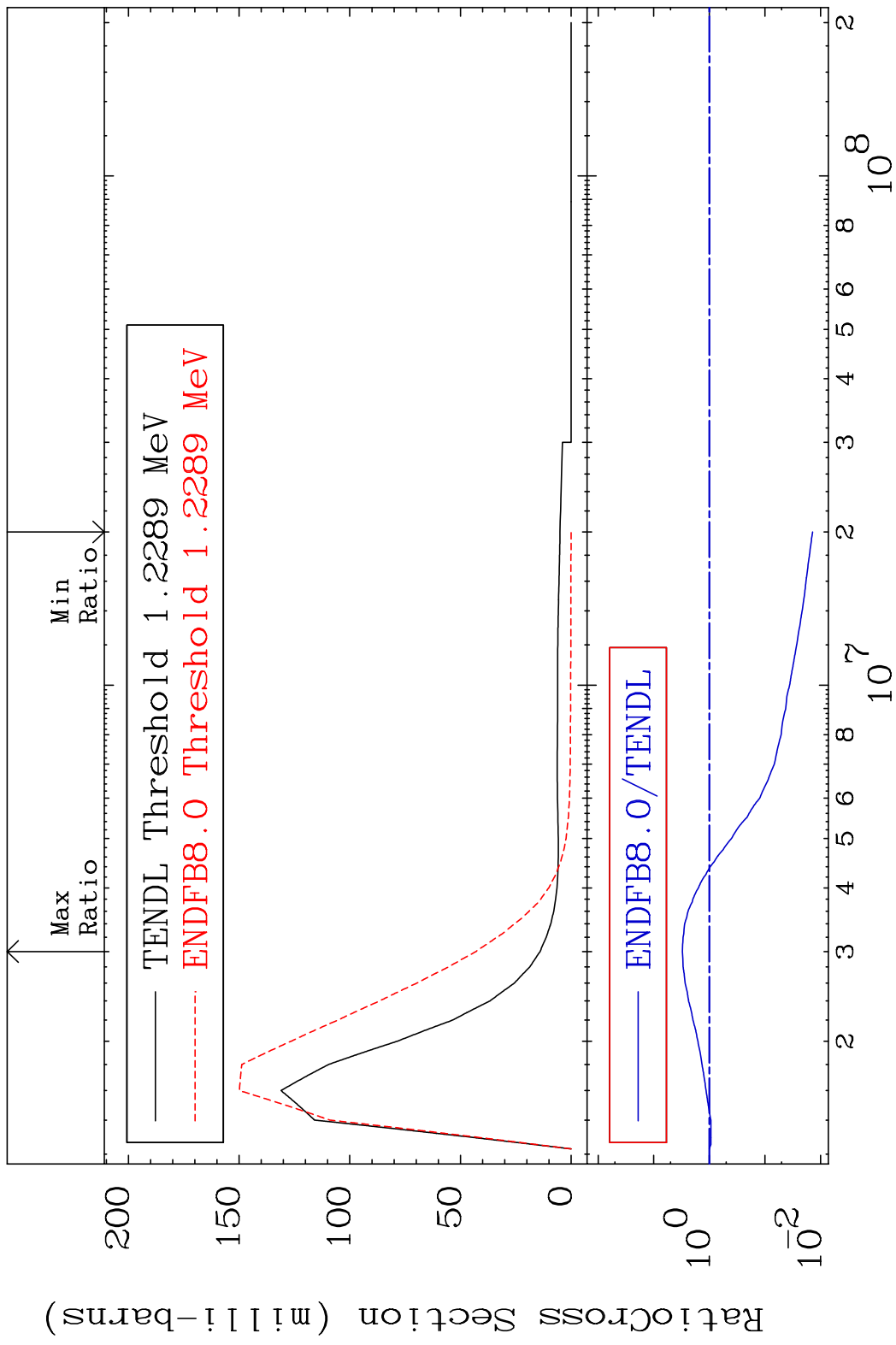
MAT 7037 MT= 58 (n, n') Level 70-Yb-172
 Cross Section -100.0 To 9999. %



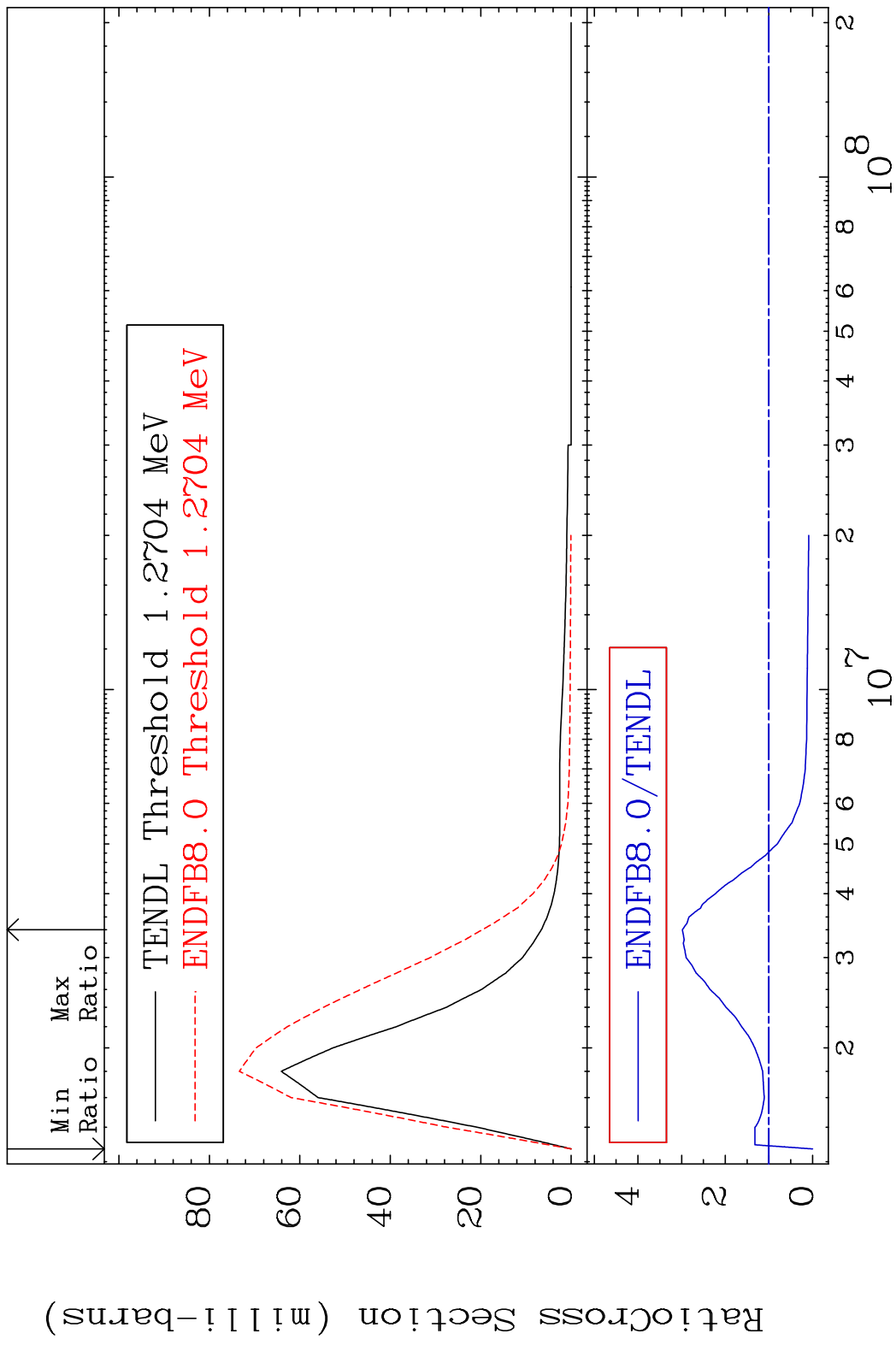
MAT 7037 MT= 59 (n, n') Level 70-Yb-172
 Cross Section 3.093 To 9999. %



MAT 7037 MT= 60 (n, n') Level 70-Yb-172
 Cross Section -98.61 To 205.8 %



MAT 7037 MT= 61 (n, n') Level 70-Yb-172
 Cross Section -100.0 To 198.3 %

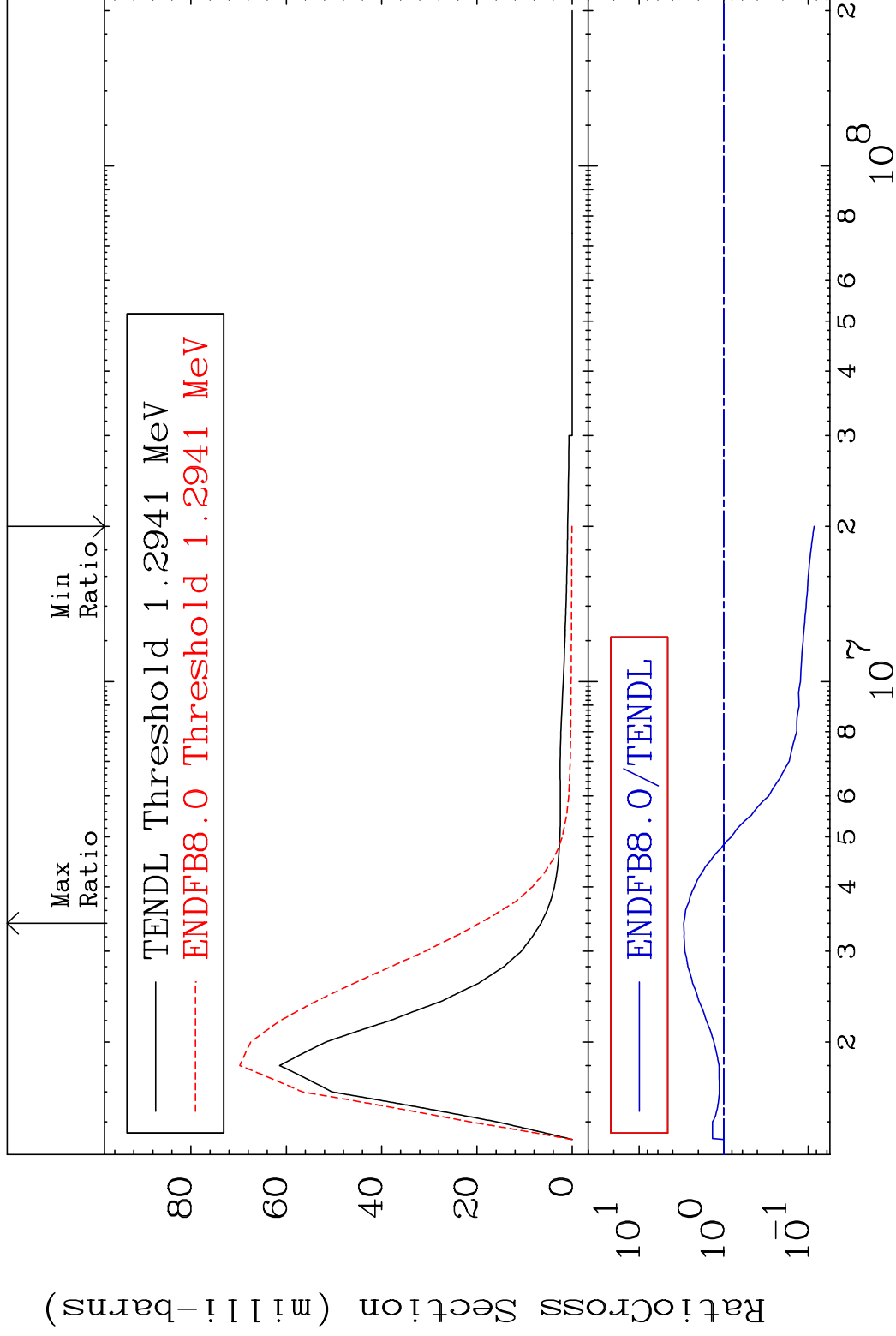


MAT 7037

MT= 62 (n, n') Level

70-Yb-172

Cross Section -91.49 To 197.7 %

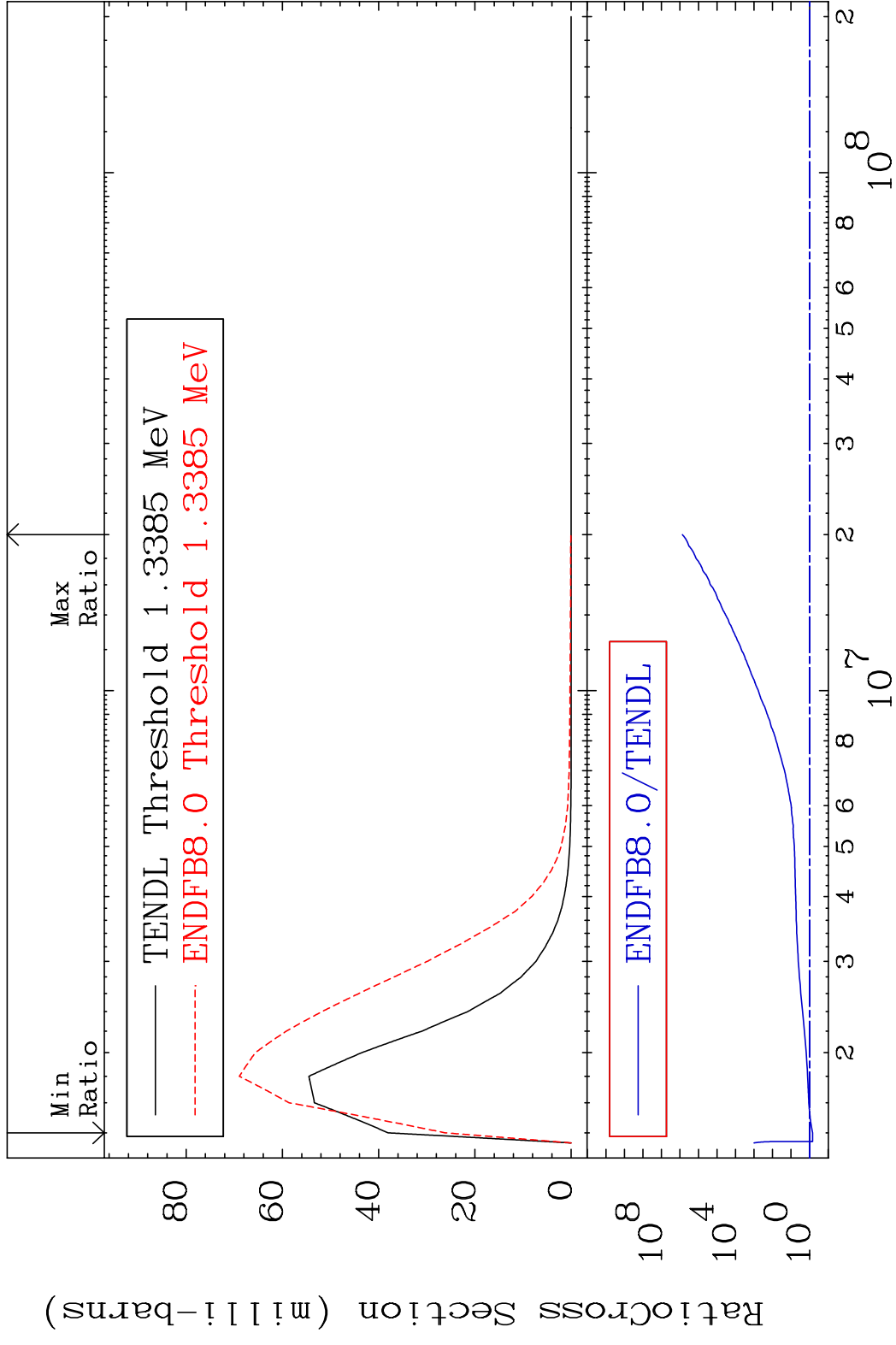


20

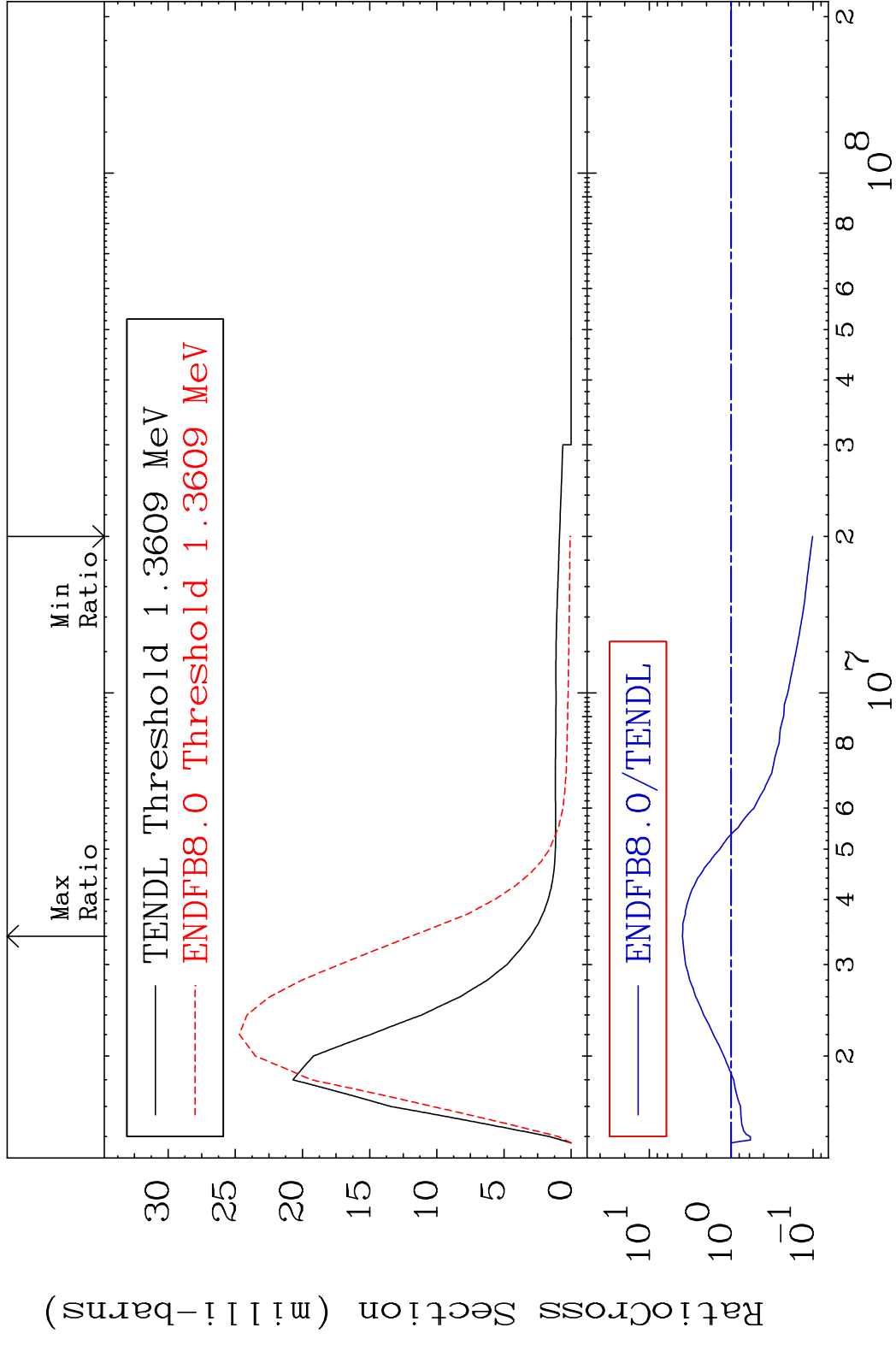
Incident Energy (eV)

70-Yb-172

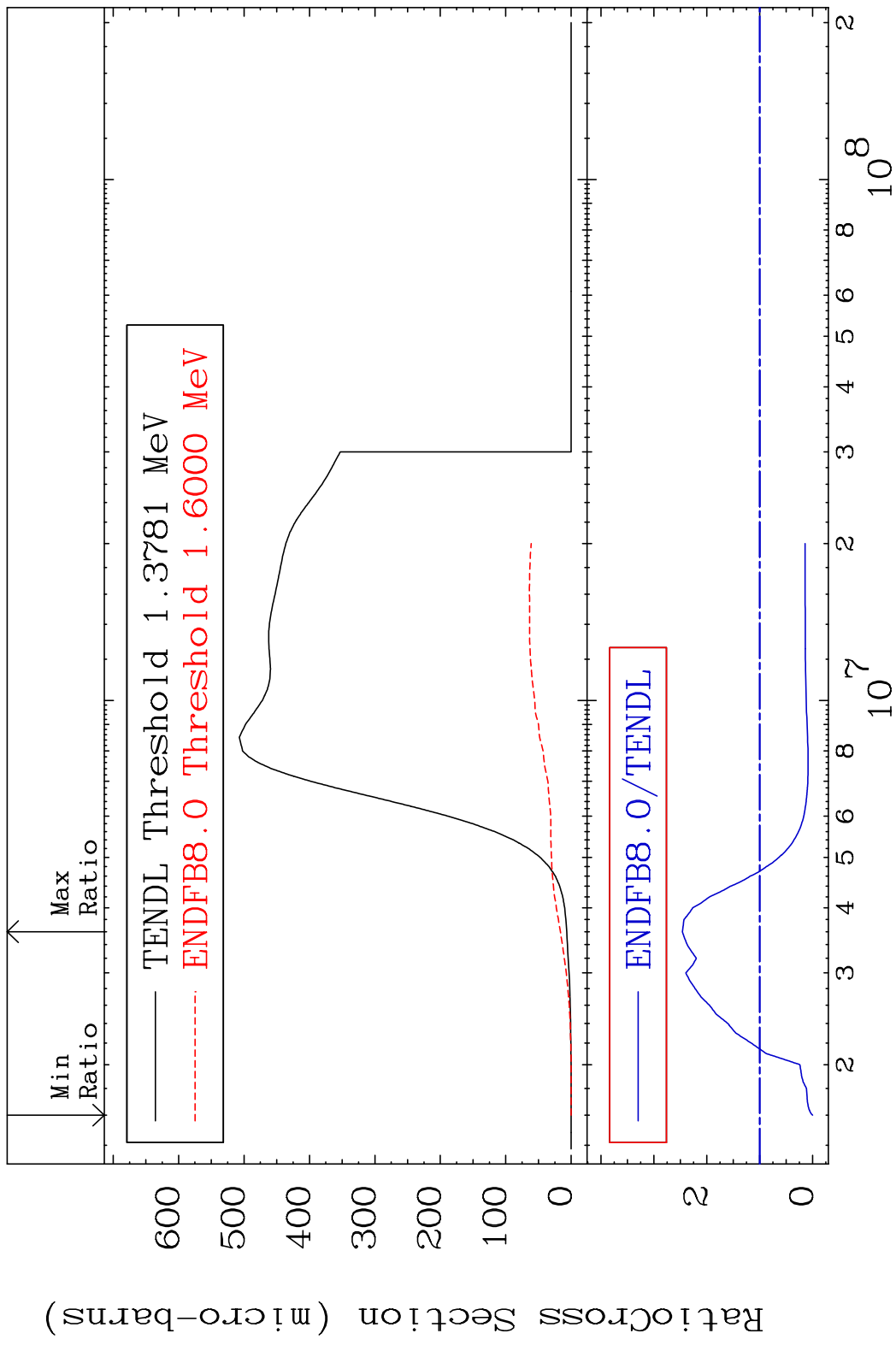
MAT 7037 MT= 63 (n, n') Level 70-Yb-172
 Cross Section -31.17 To 9999. %



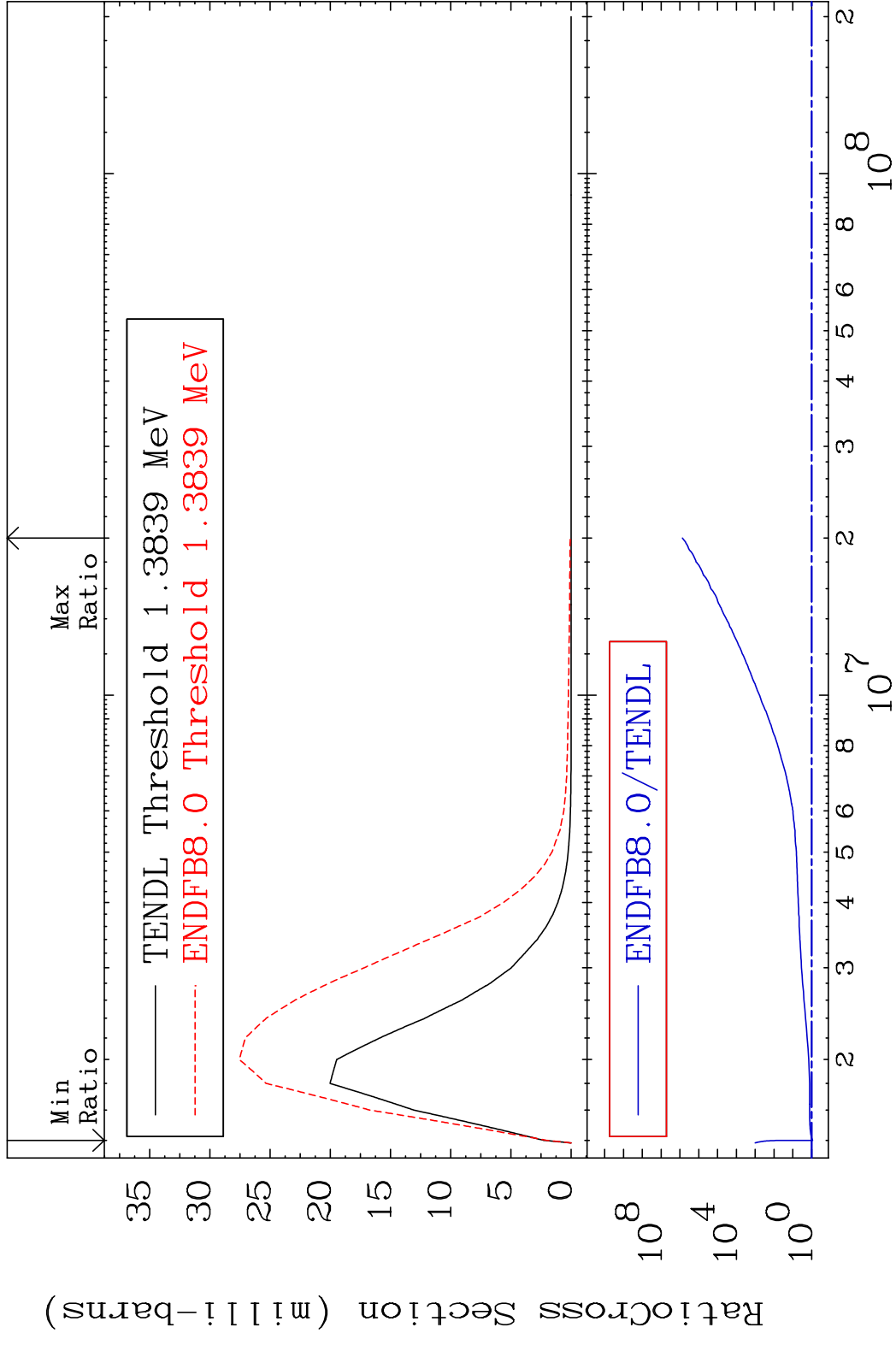
MAT 7037 MT= 64 (n, n') Level 70-Yb-172
 Cross Section -89.86 To 295.3 %



MAT 7037 MT= 65 (n, n') Level 70-Yb-172
 Cross Section -100.0 To 146.2 %



MAT 7037 MT= 66 (n, n') Level 70-Yb-172
 Cross Section -11.16 To 9999. %

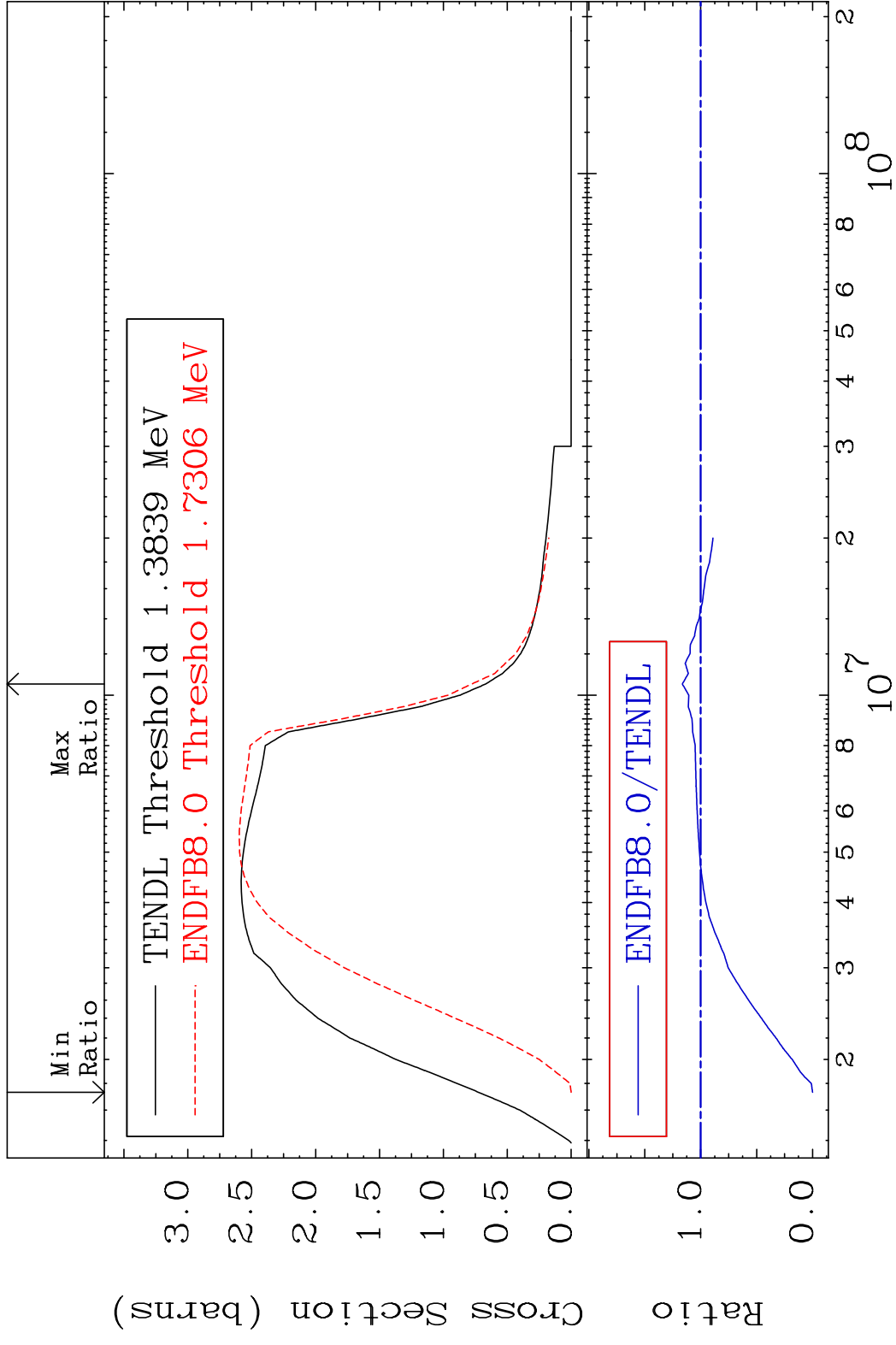


MAT 7037

(n, n') Continuum

70-Yb-172

Cross Section -100.0 To 16.43 %

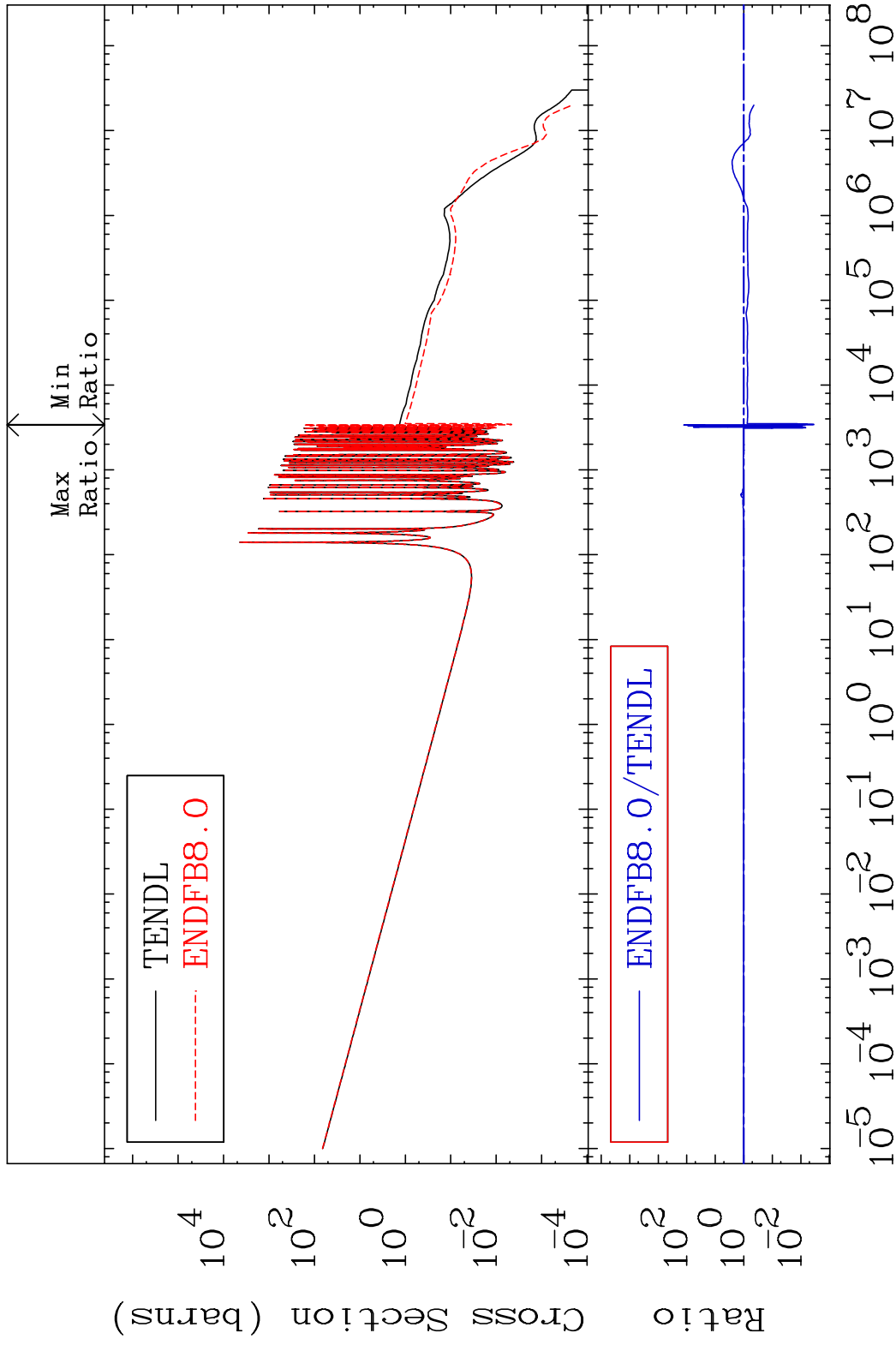


MAT 7037

(n, γ)

70-Yb-172

Cross Section -99.66 To 9999. %



26

Incident Energy (eV)

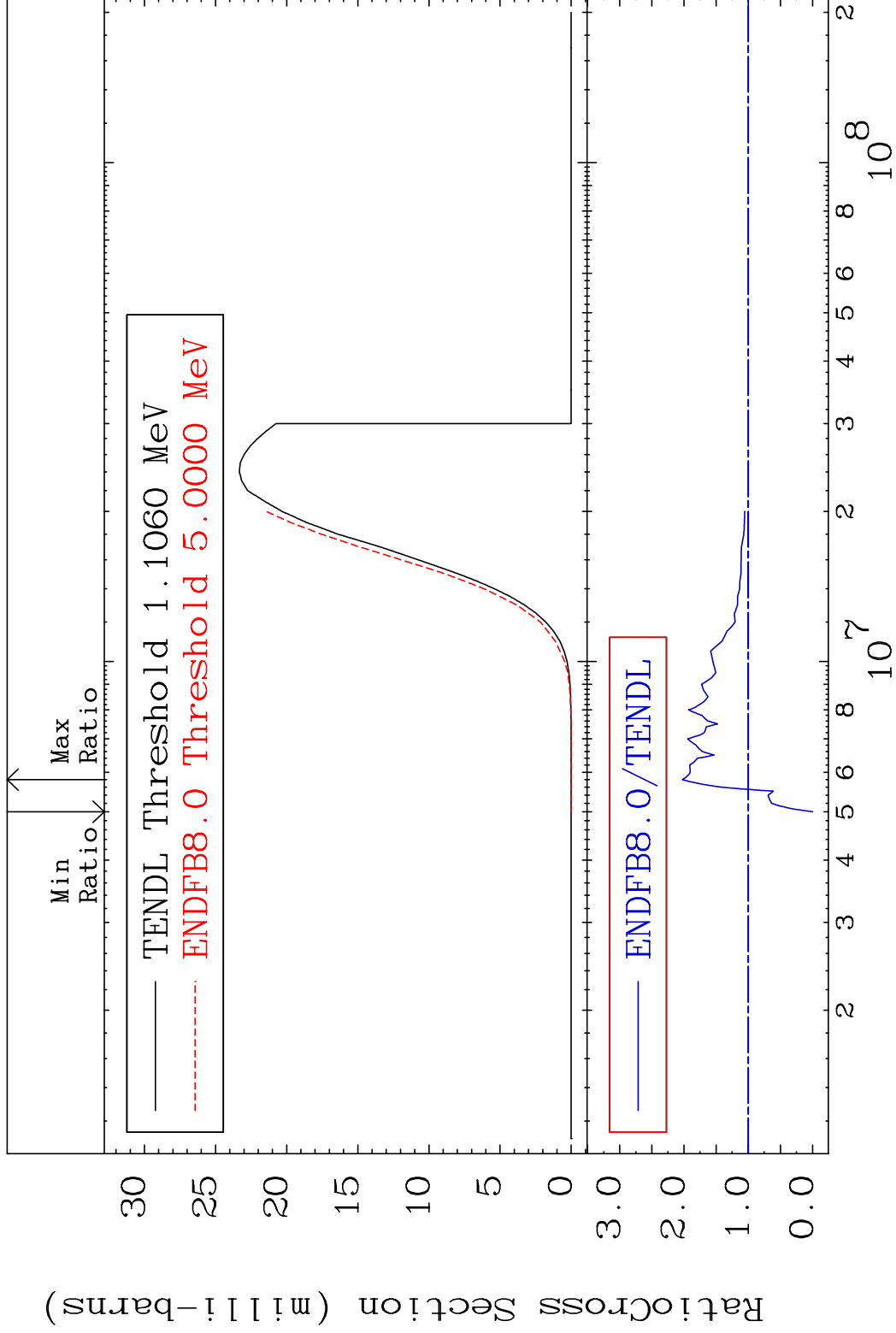
70-Yb-172

MAT 7037

(n, p)

70-Yb-172

Cross Section -100.0 To 102.5 %

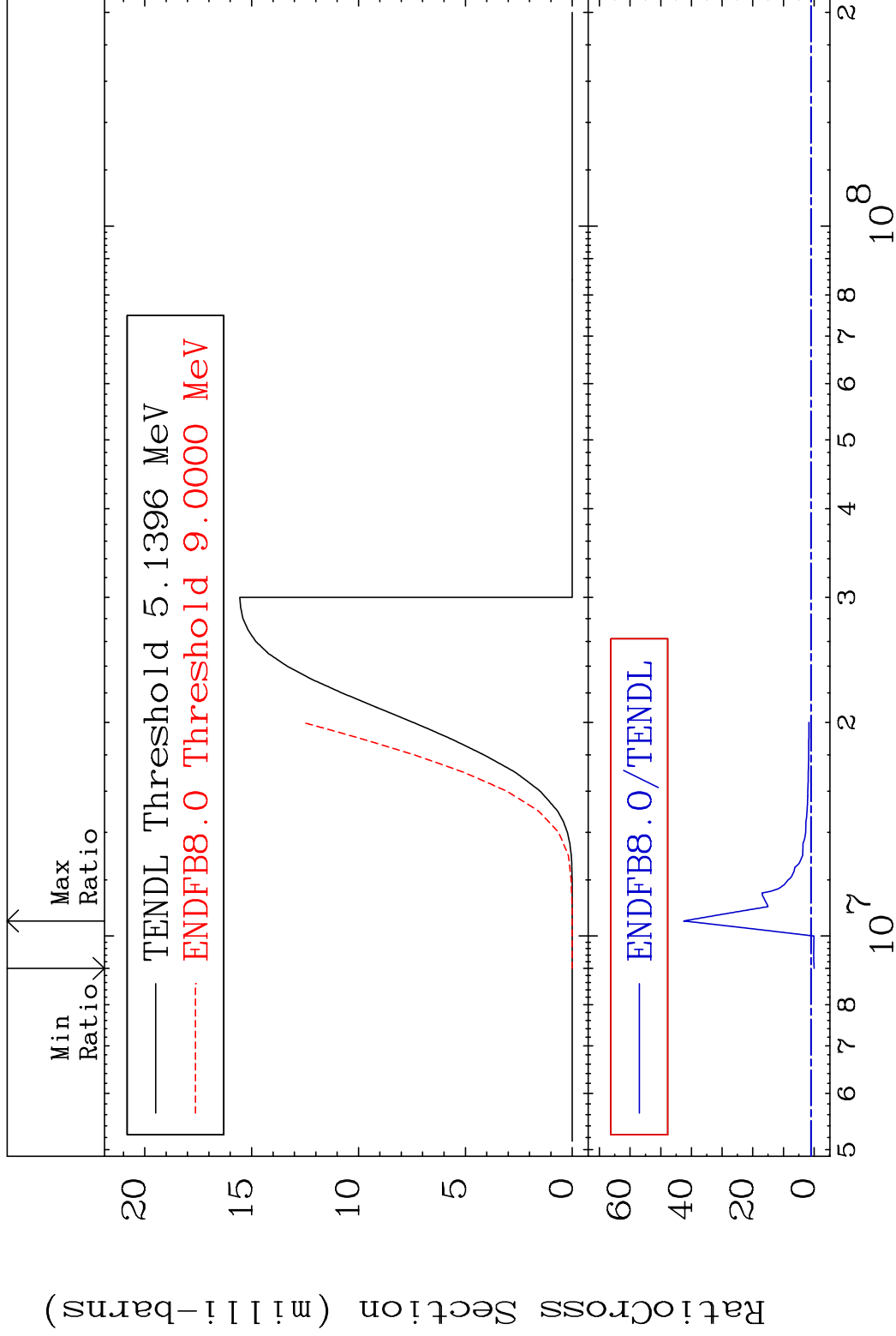


MAT 7037

(n,d)

70-Yb-172

Cross Section -100.0 To 4154. %



28

Incident Energy (eV)

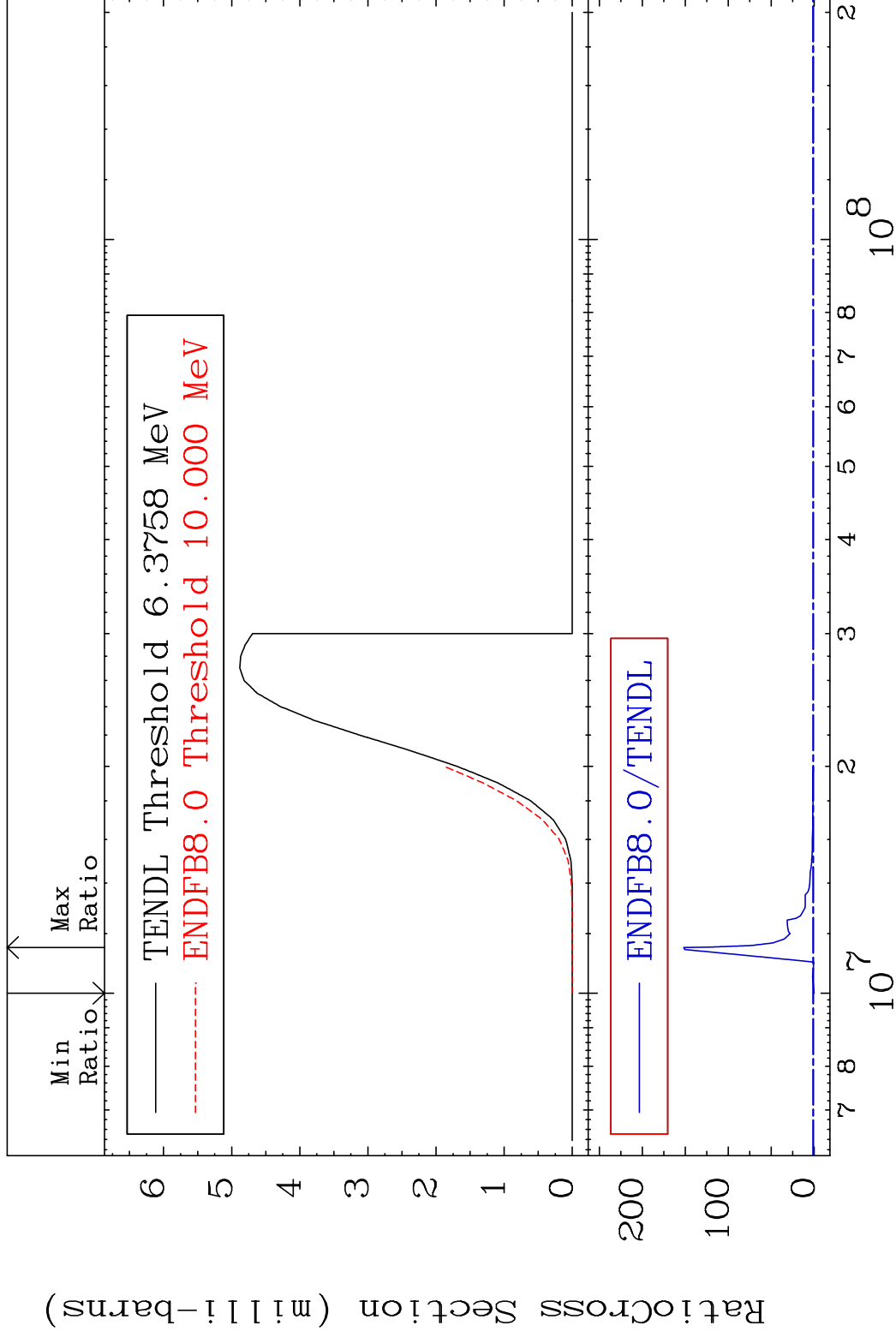
70-Yb-172

MAT 7037

(n, t)

70-Yb-172

Cross Section -100.0 To 9999. %

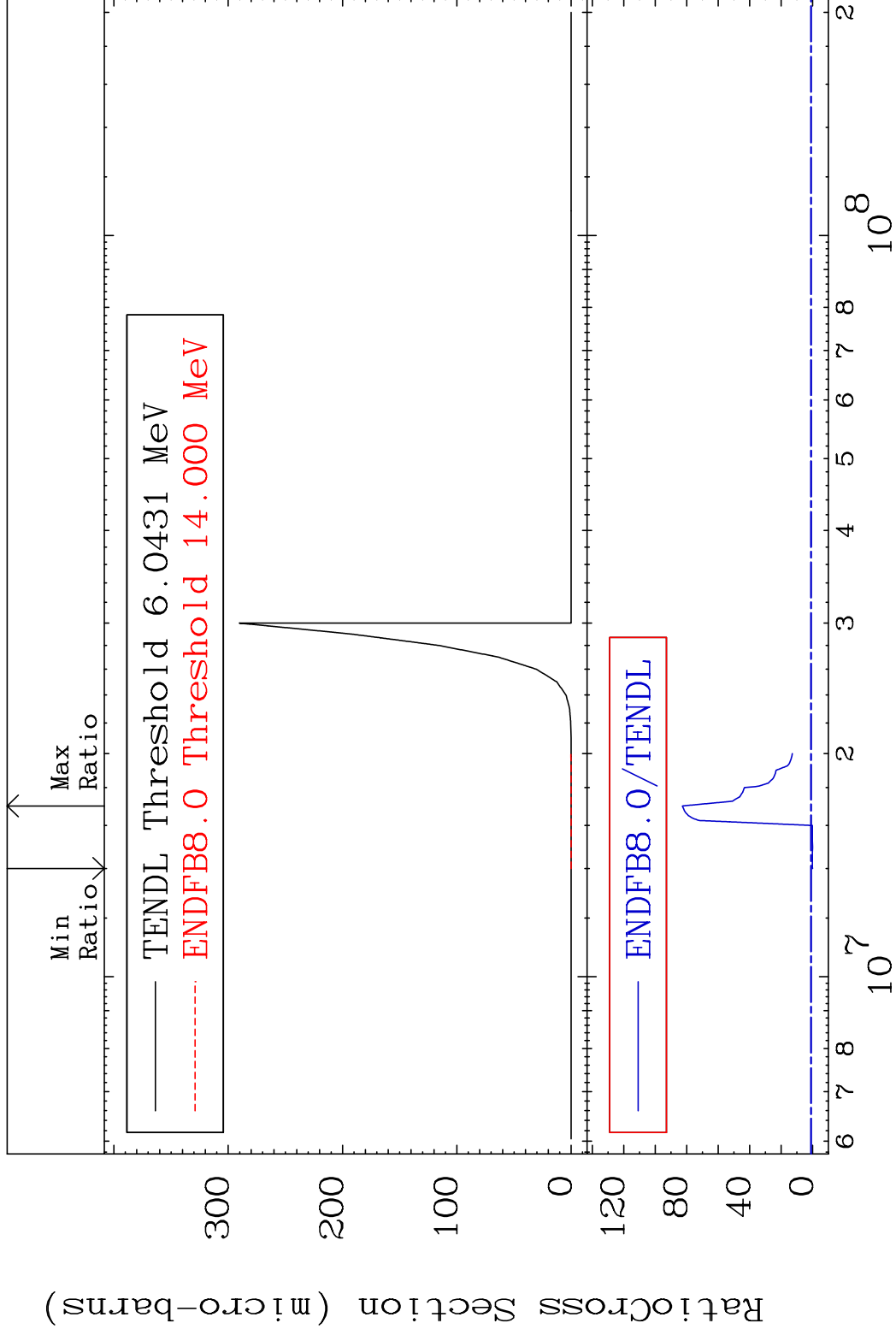


MAT 7037

(n, He-3)

70-Yb-172

Cross Section -100.0 To 8174. %



30

Incident Energy (eV)

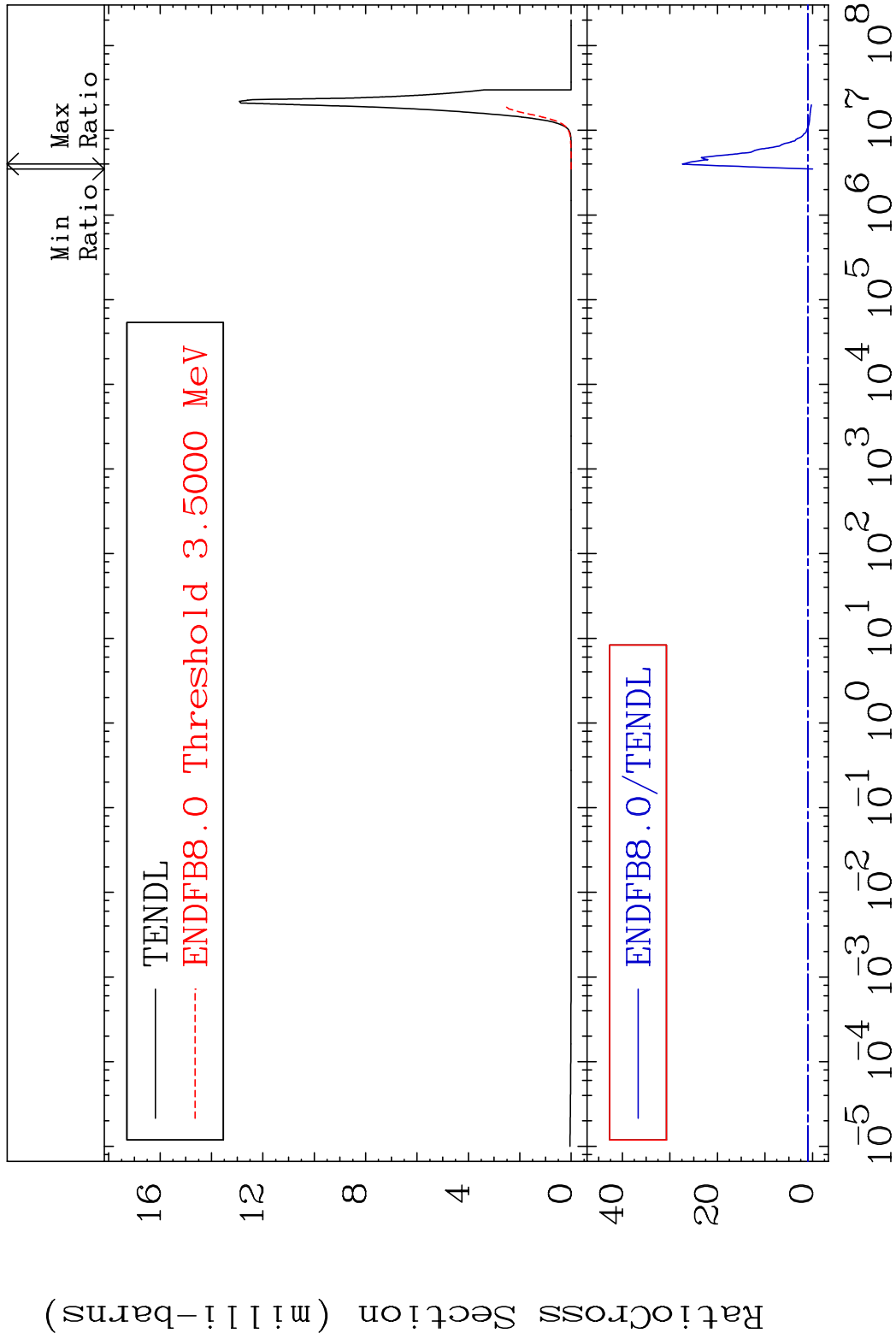
70-Yb-172

MAT 7037

(n, α)

70-Yb-172

Cross Section -100.0 To 2639. %

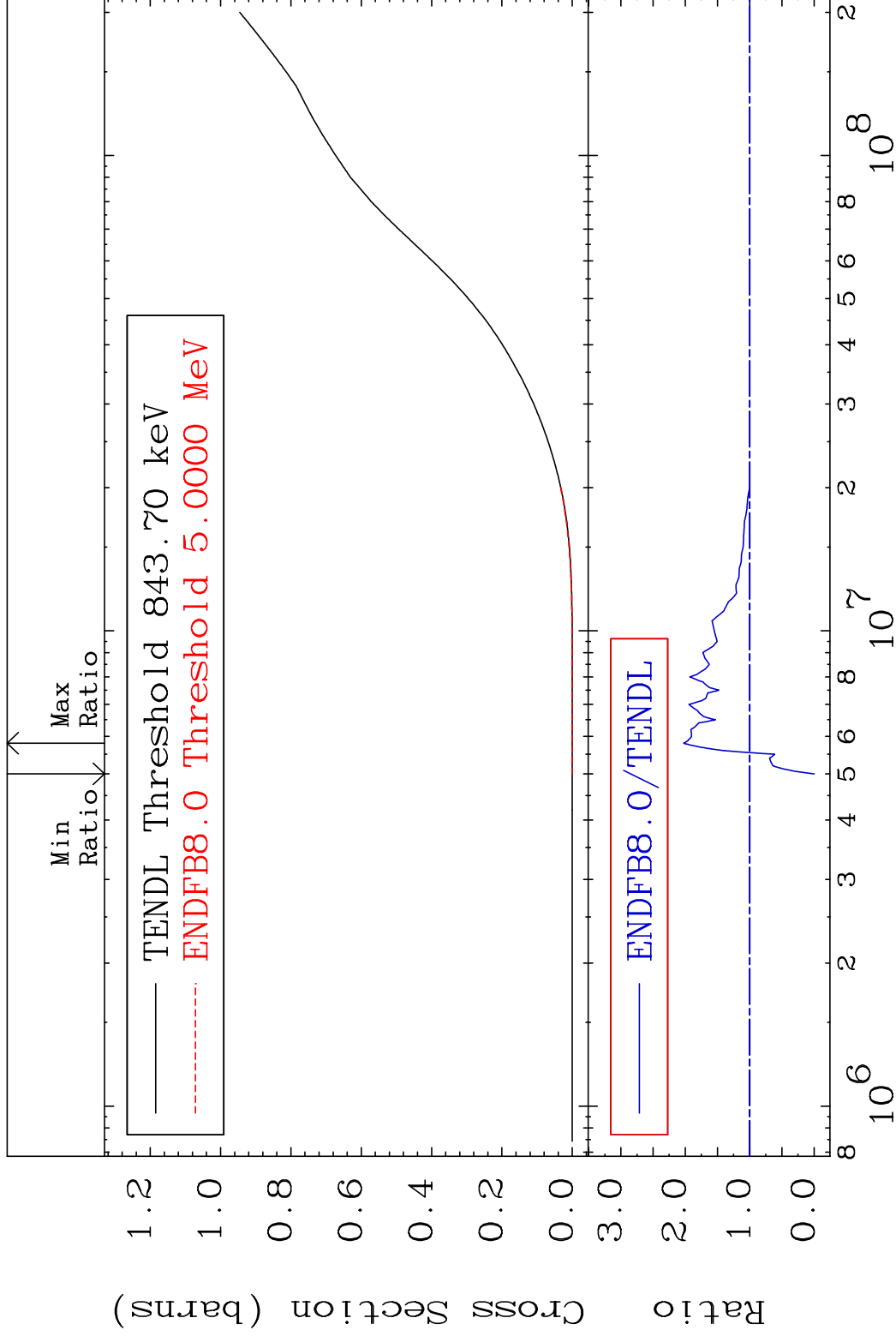


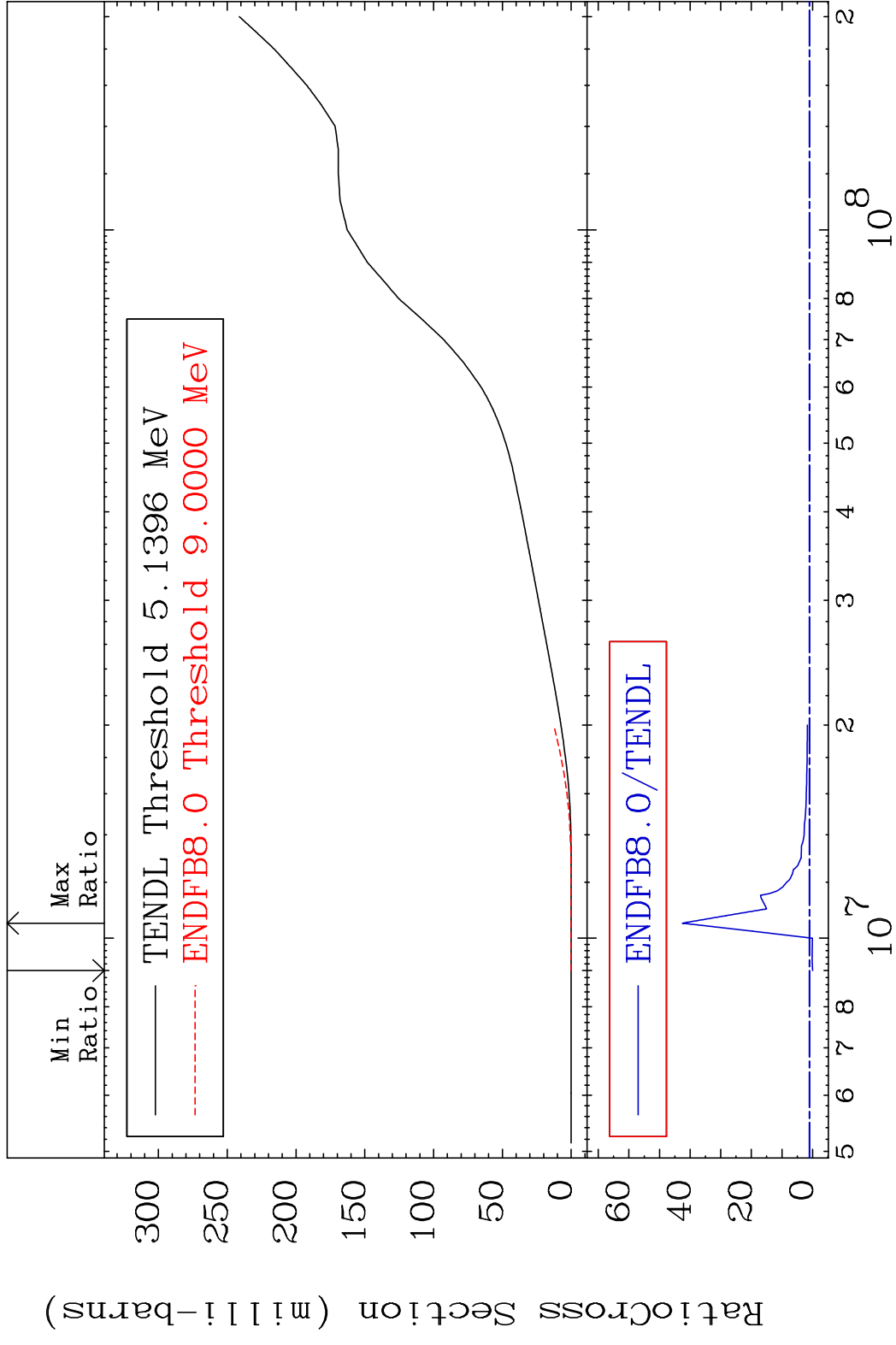
31

Incident Energy (eV)

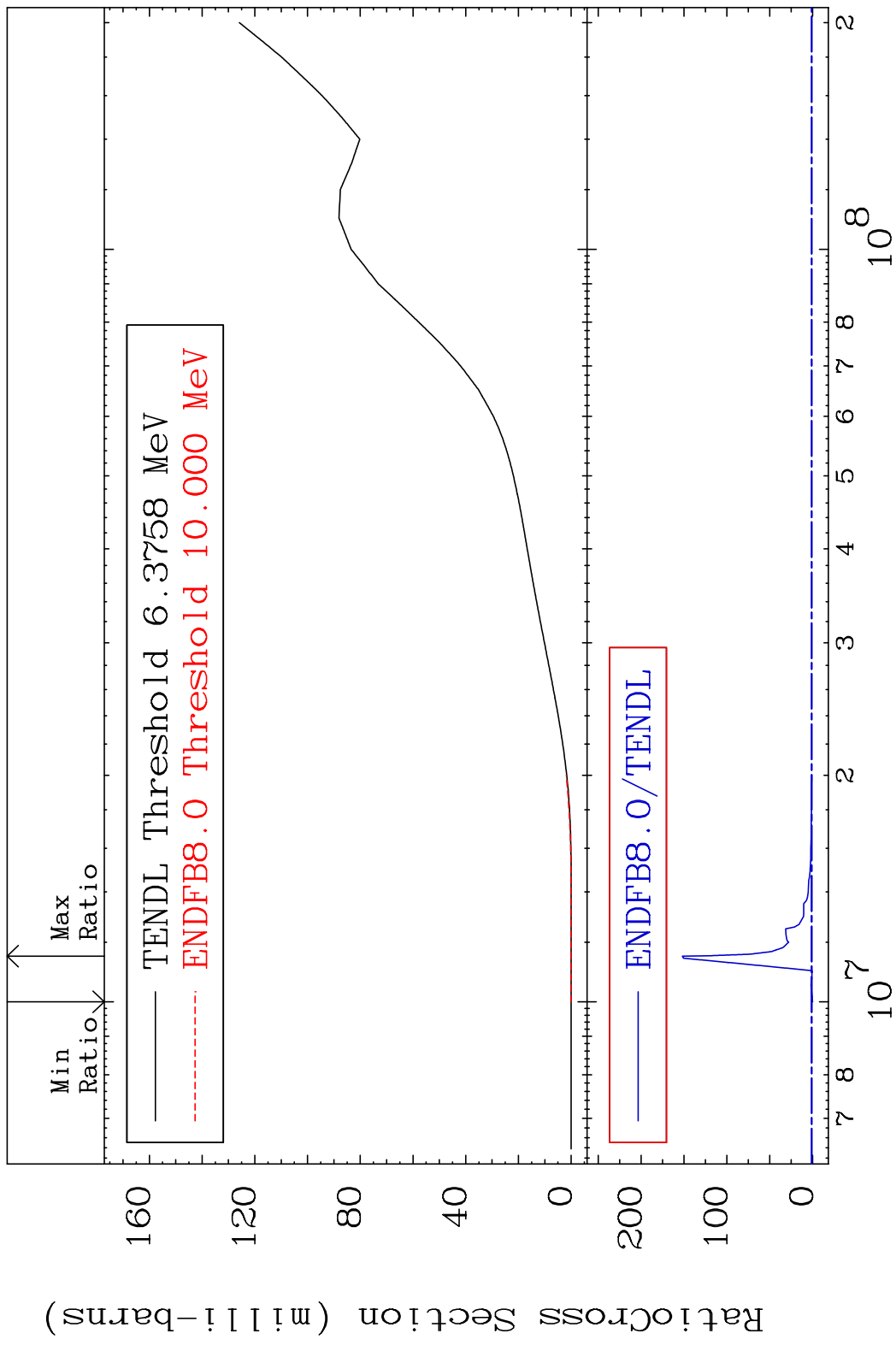
70-Yb-172

Cross Section -100.0 To 102.5 %





MAT 7037 Tritium Production 70-Yb-172
 Cross Section -100.0 To 9999. %

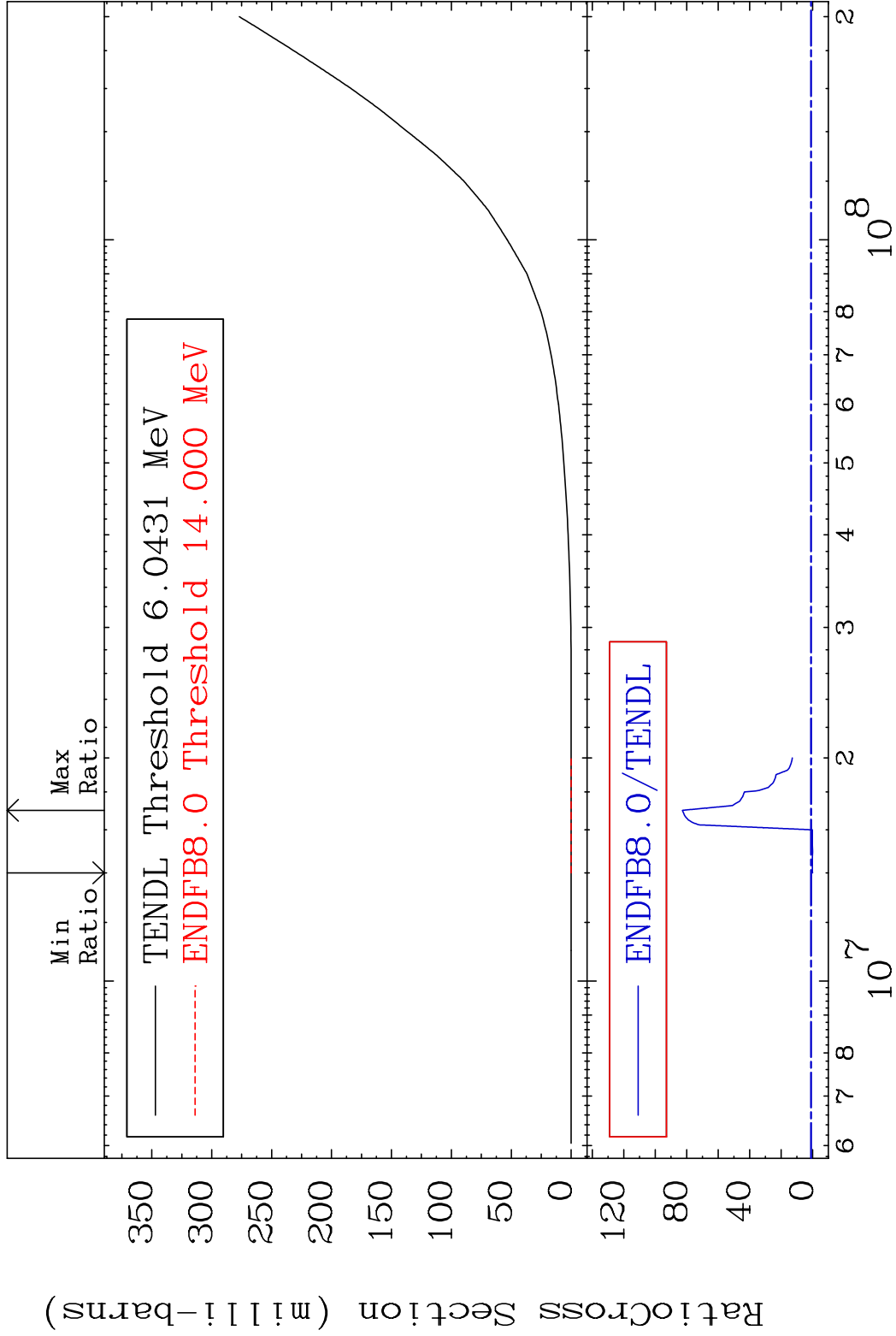


MAT 7037

He-3 Production

70-Yb-172

Cross Section -100.0 To 8174. %

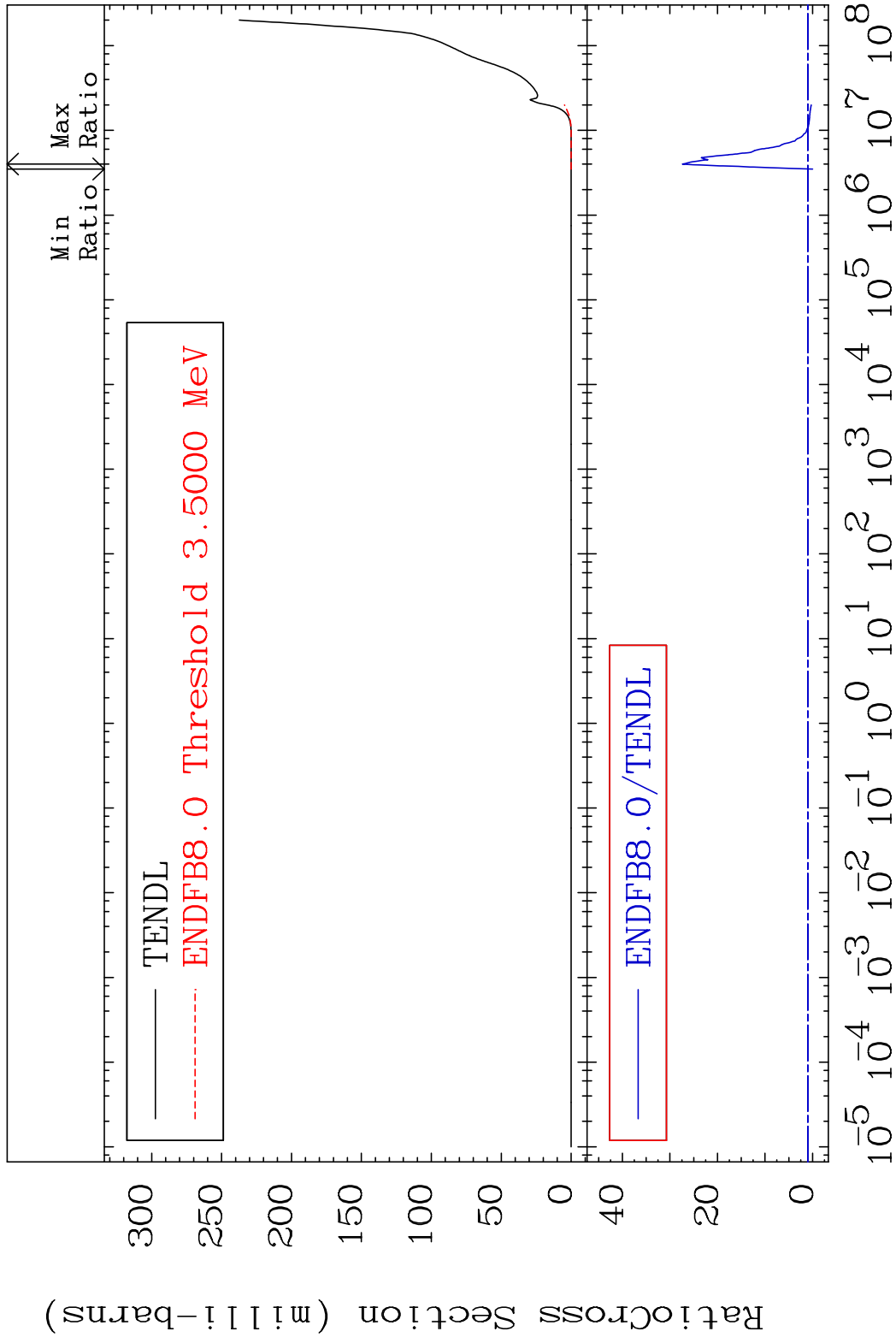


35

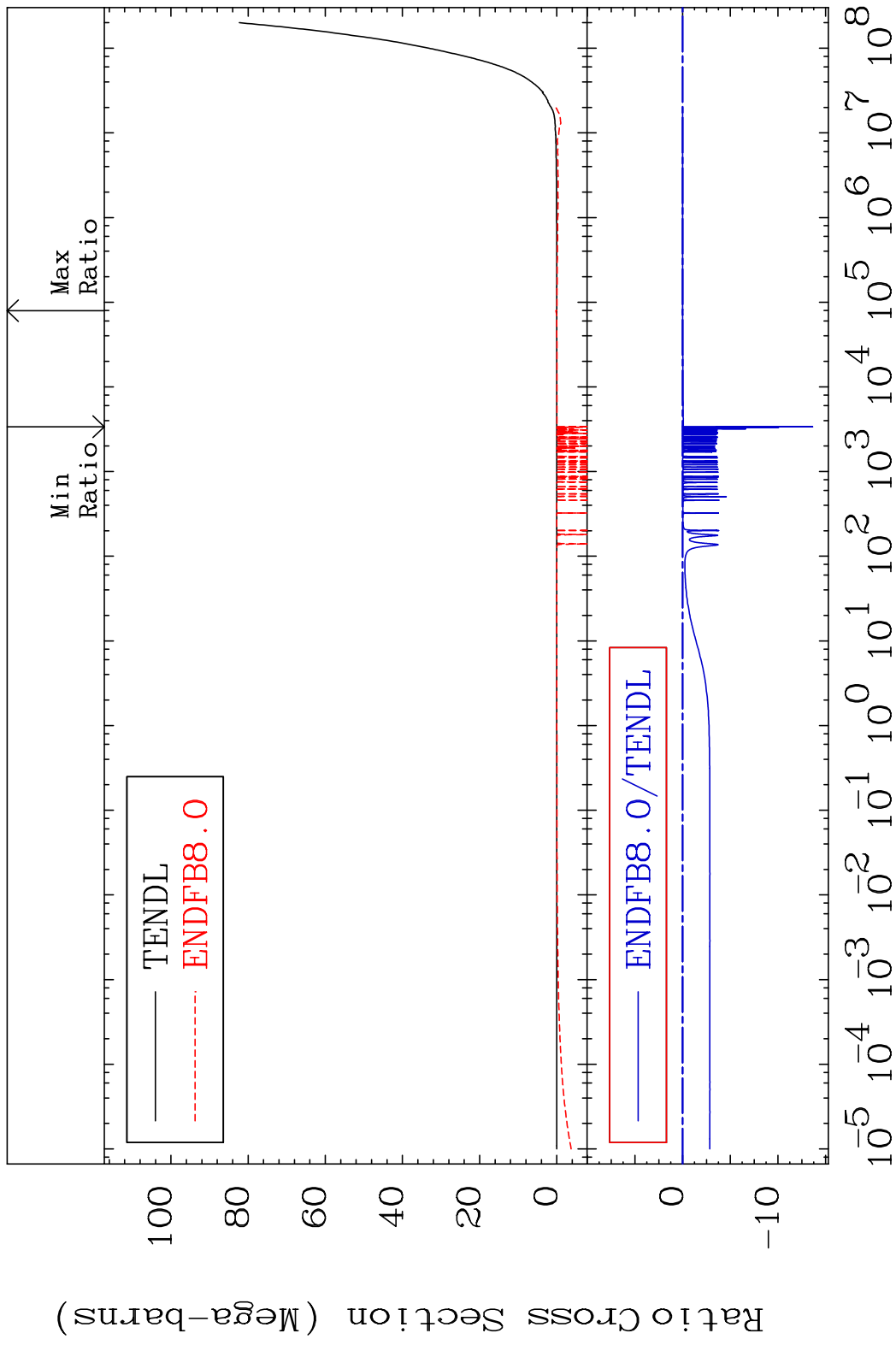
Incident Energy (eV)

70-Yb-172

Cross Section -100.0 To 2639. %



MAT 7037 Kerma total (eV-barns) 70-Yb-172
Cross Section -9999. To 3139. %



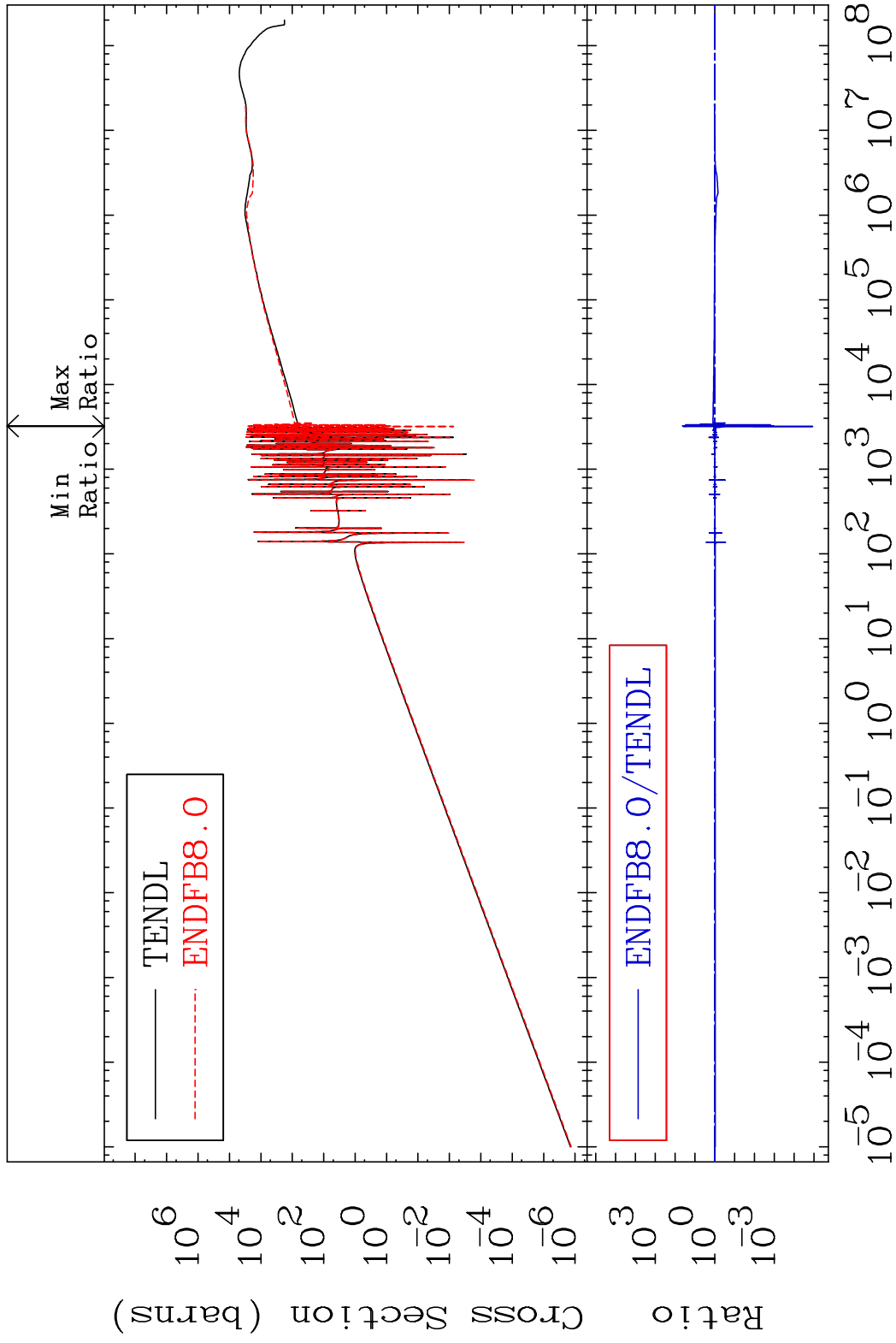
37 Incident Energy (eV) 70-Yb-172

MAT 7037

Kerma elastic

70-Yb-172

Cross Section -100.0 To 4230. %

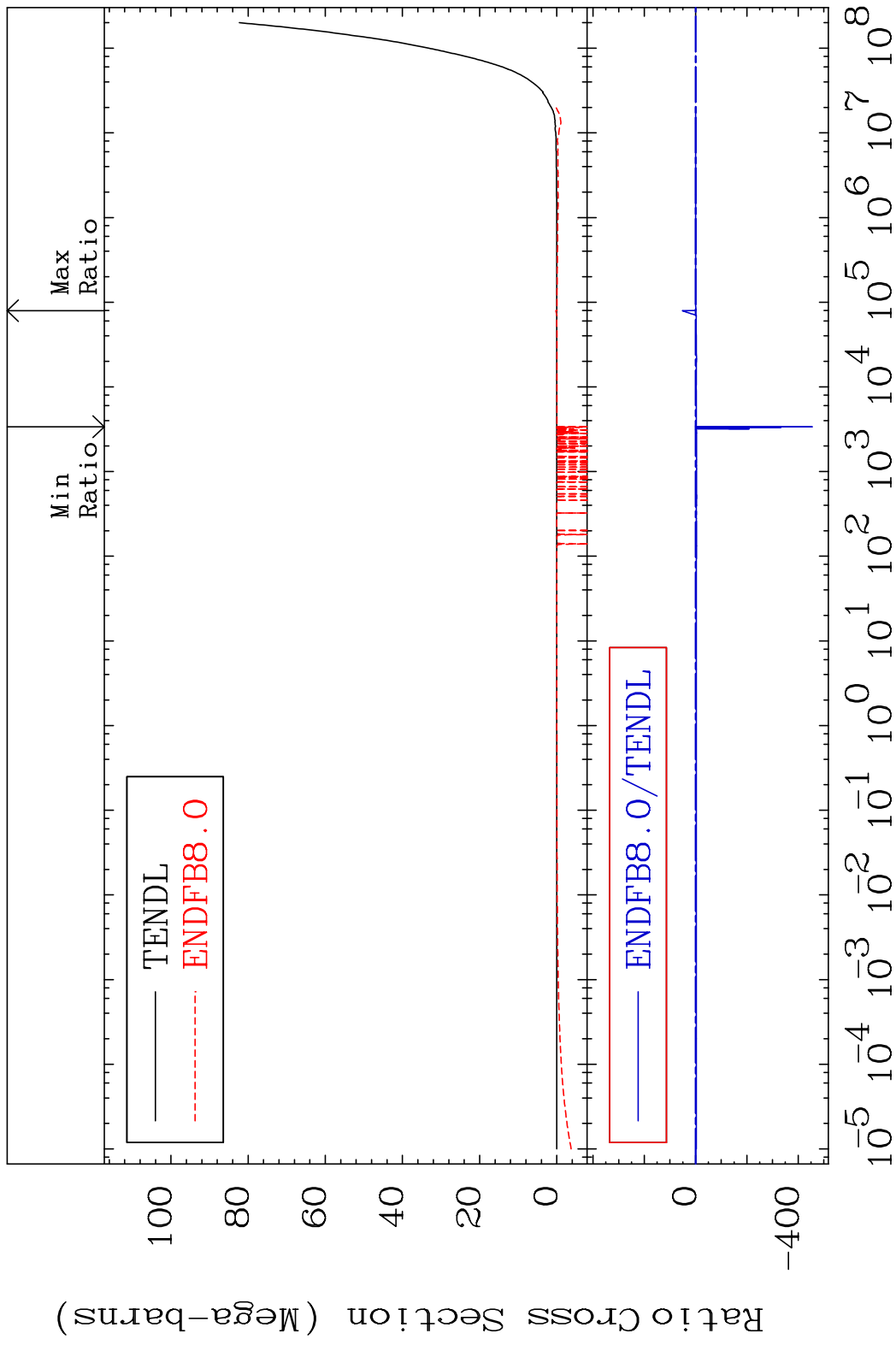


38

Incident Energy (eV)

70-Yb-172

MAT 7037 Kerma non-elastic (all but mt2) 70-Yb-172
Cross Section -9999. To 9999. %



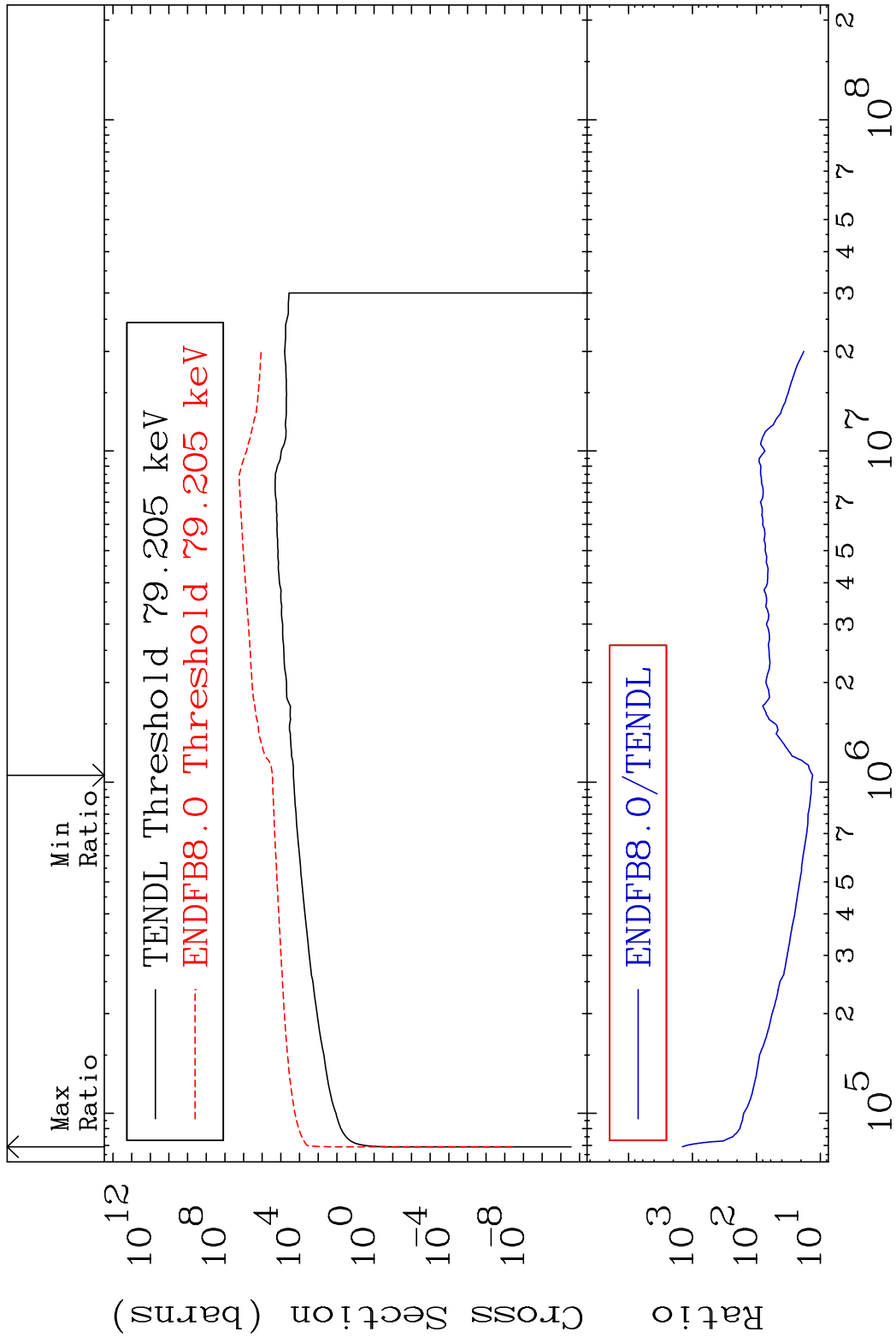
39 Incident Energy (eV) 70-Yb-172

MAT 7037

Kerma inelastic (mt51-91)

70-Yb-172

Cross Section 1223. To 9999. %

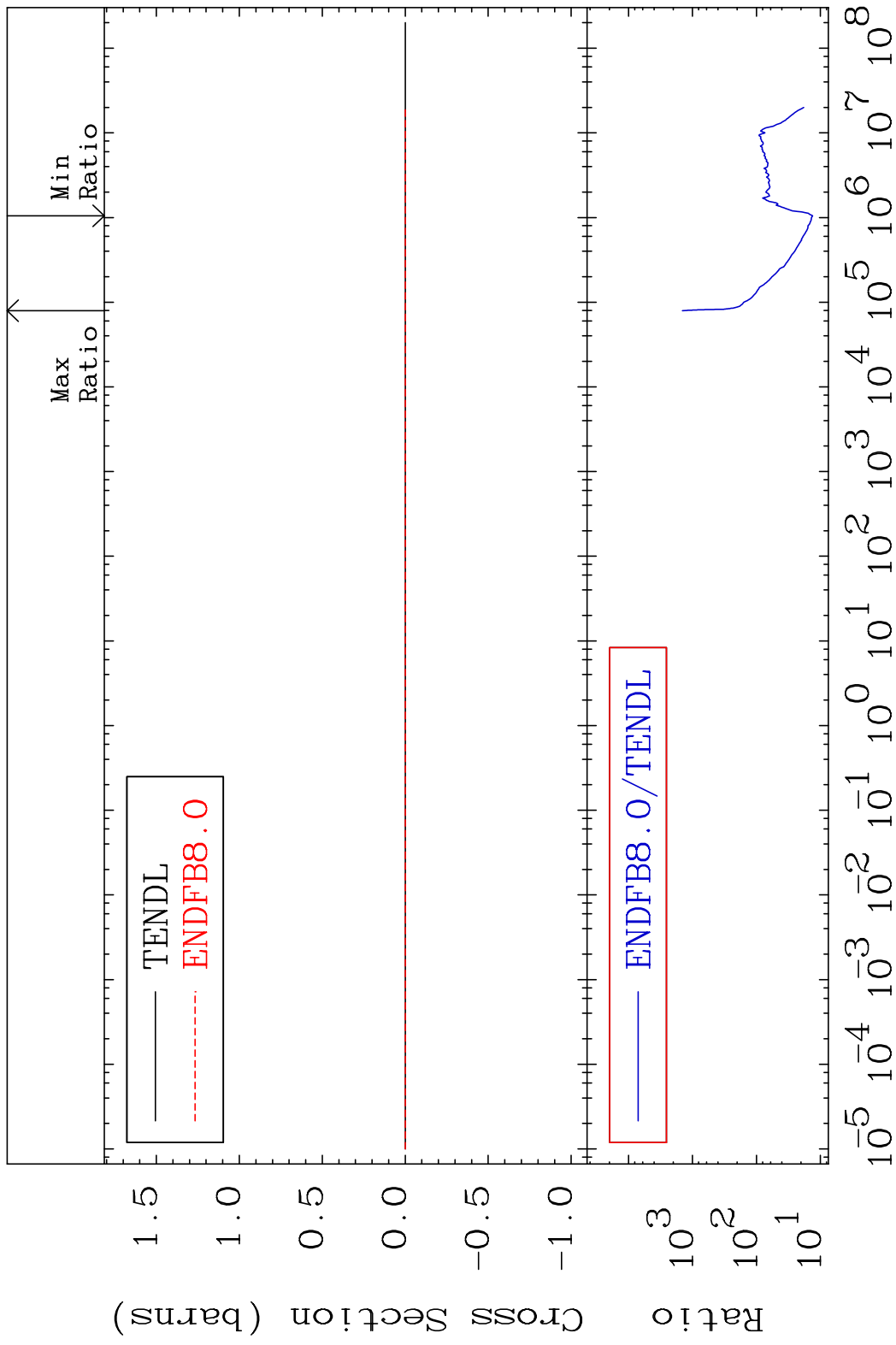


40

Incident Energy (eV)

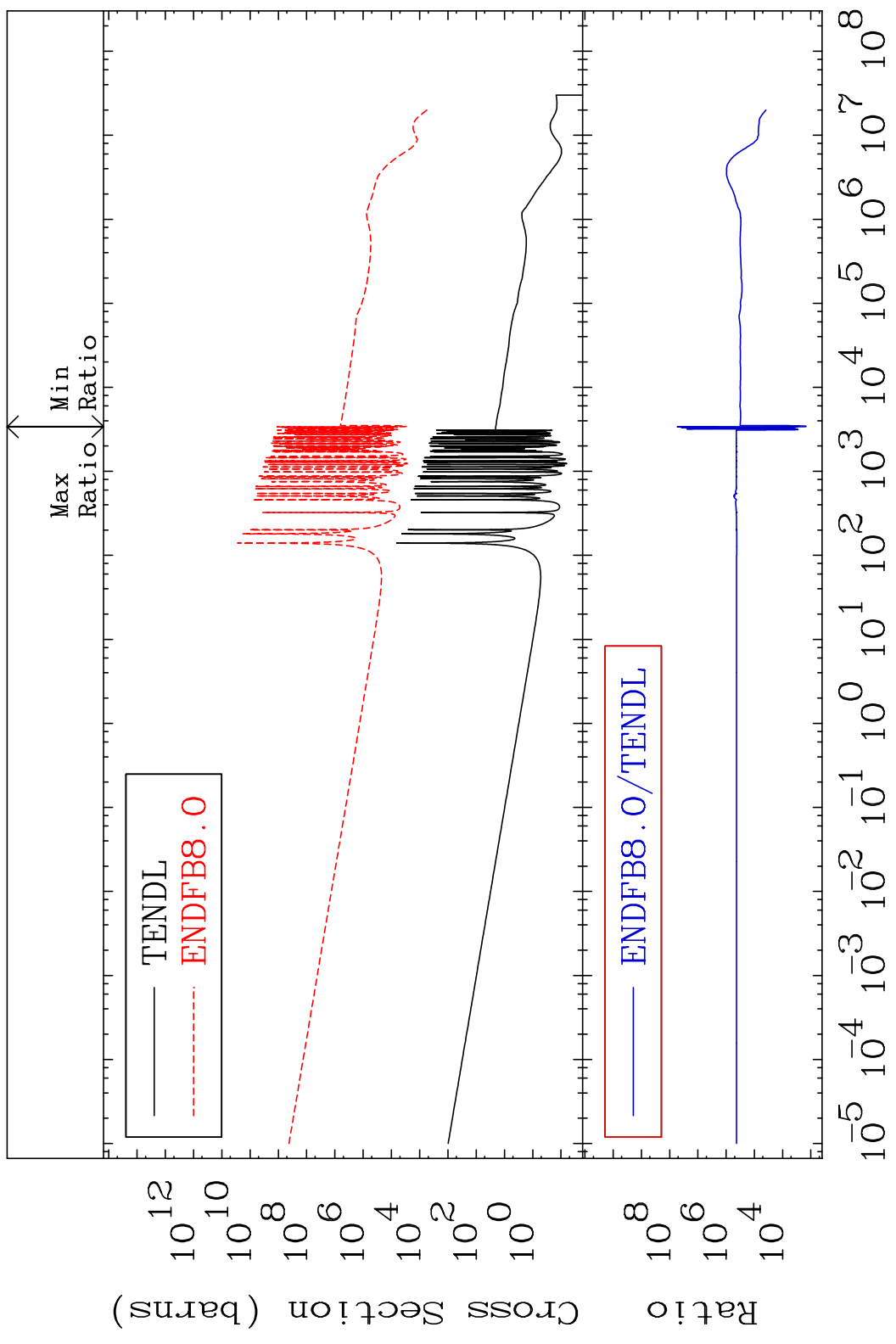
70-Yb-172

MAT 7037 Kerma fission (mt18 or mt19-20-21-38)70-Yb-172
 Cross Section 1223. To 9999. %



MAT 7037

Kerma capture (mt102) 70-Yb-172
Cross Section 9999. To 9999. %



42

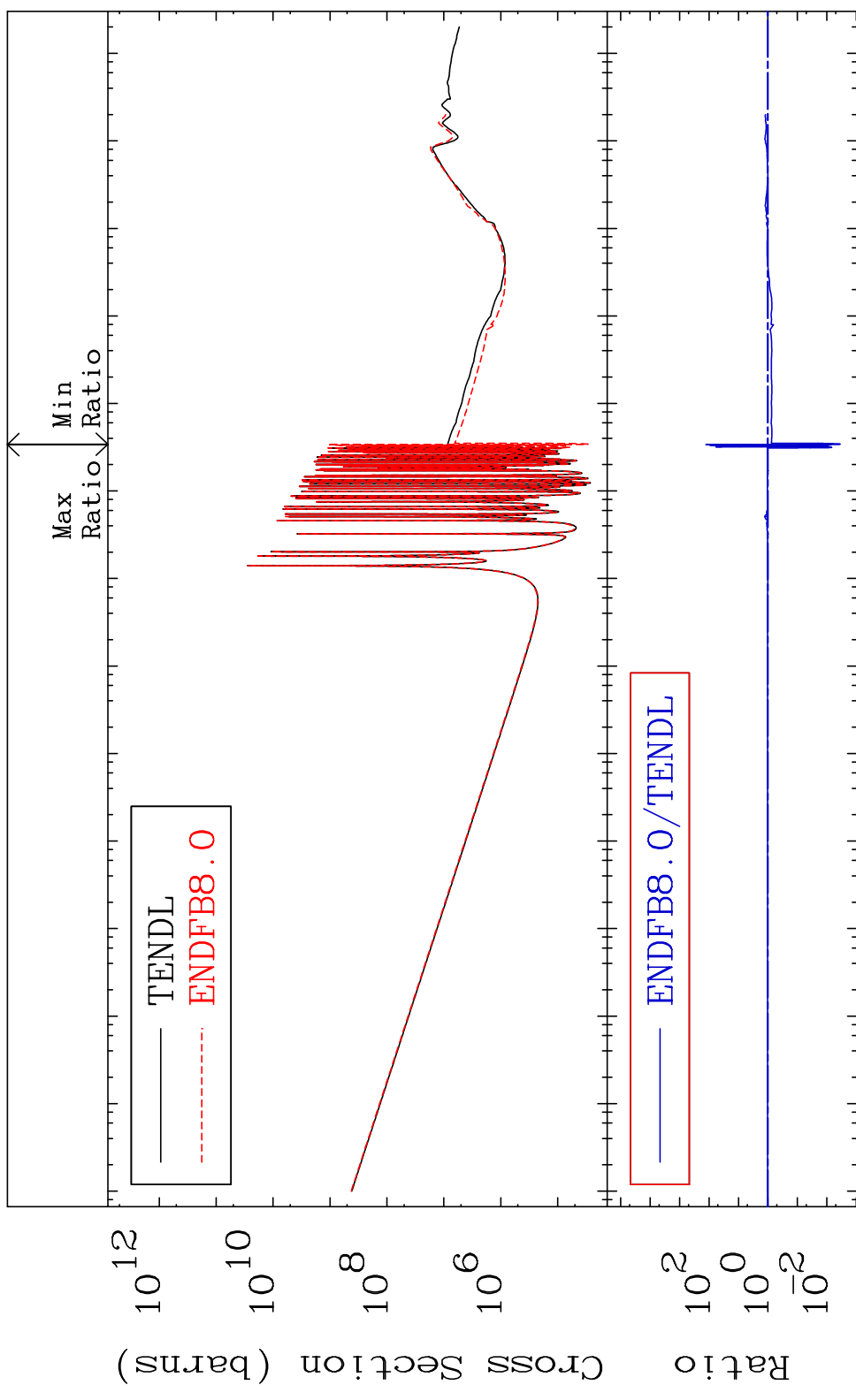
Incident Energy (eV) 70-Yb-172

MAT 7037

Total photon (eV-barns)

70-Yb-172

Cross Section -99.66 To 9999. %

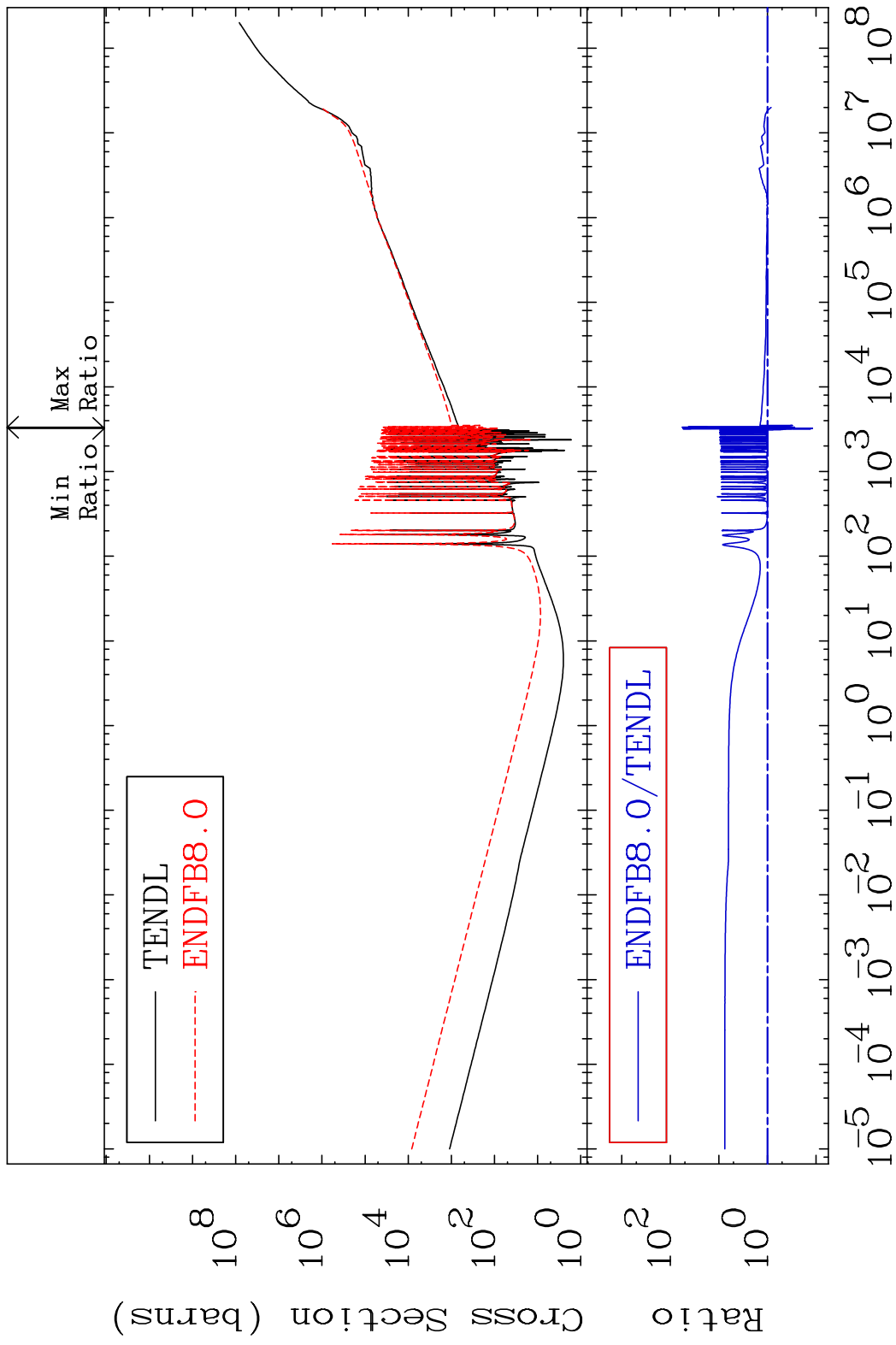


43

Incident Energy (eV)

70-Yb-172

MAT 7037 Total kinematic kerma (high limit) 70-Yb-172
 Cross Section -88.21 To 5562. %

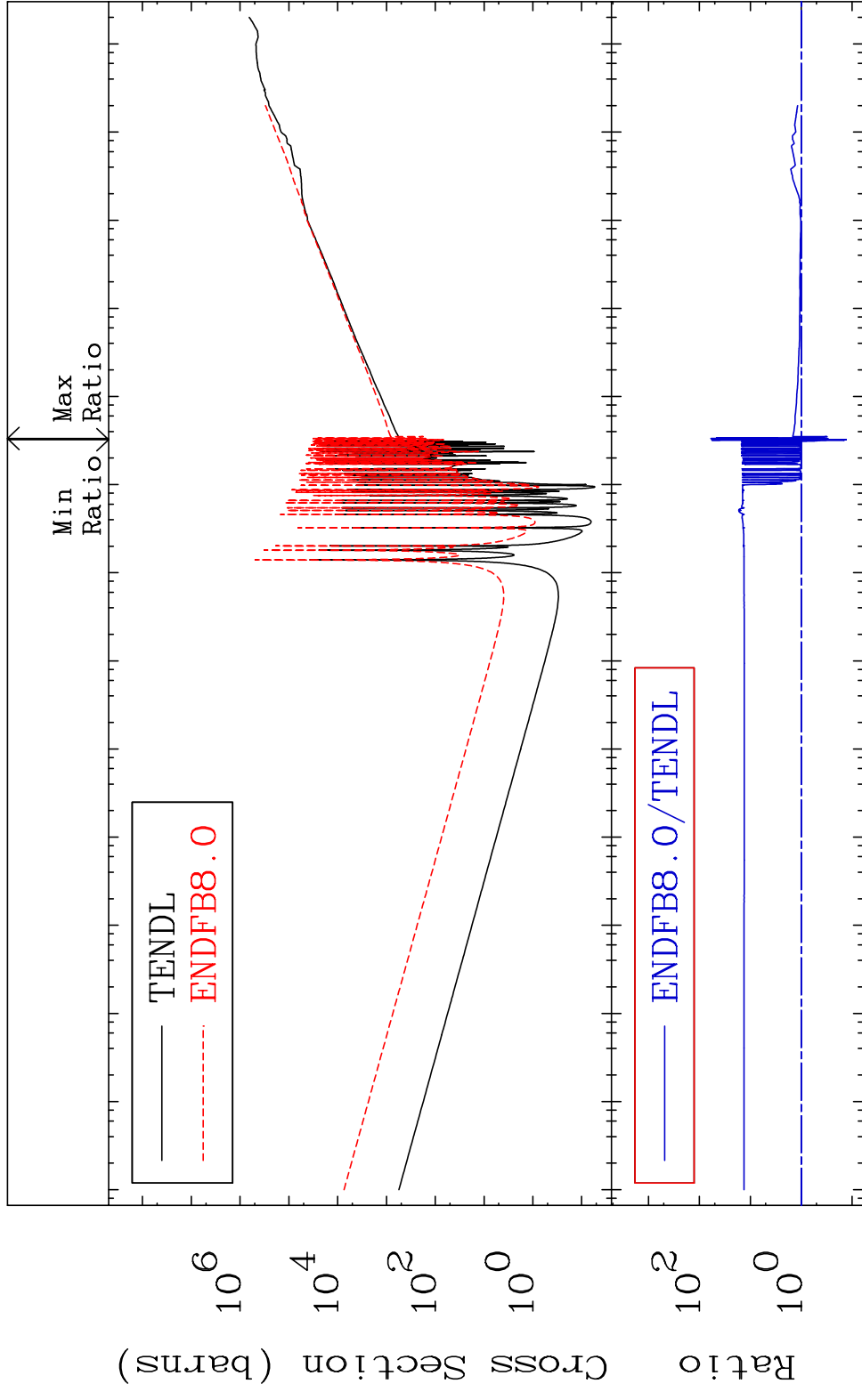


MAT 7037

Dpa total (eV-barns)

70-Yb-172

Cross Section -87.02 To 5897. %



45

Incident Energy (eV)

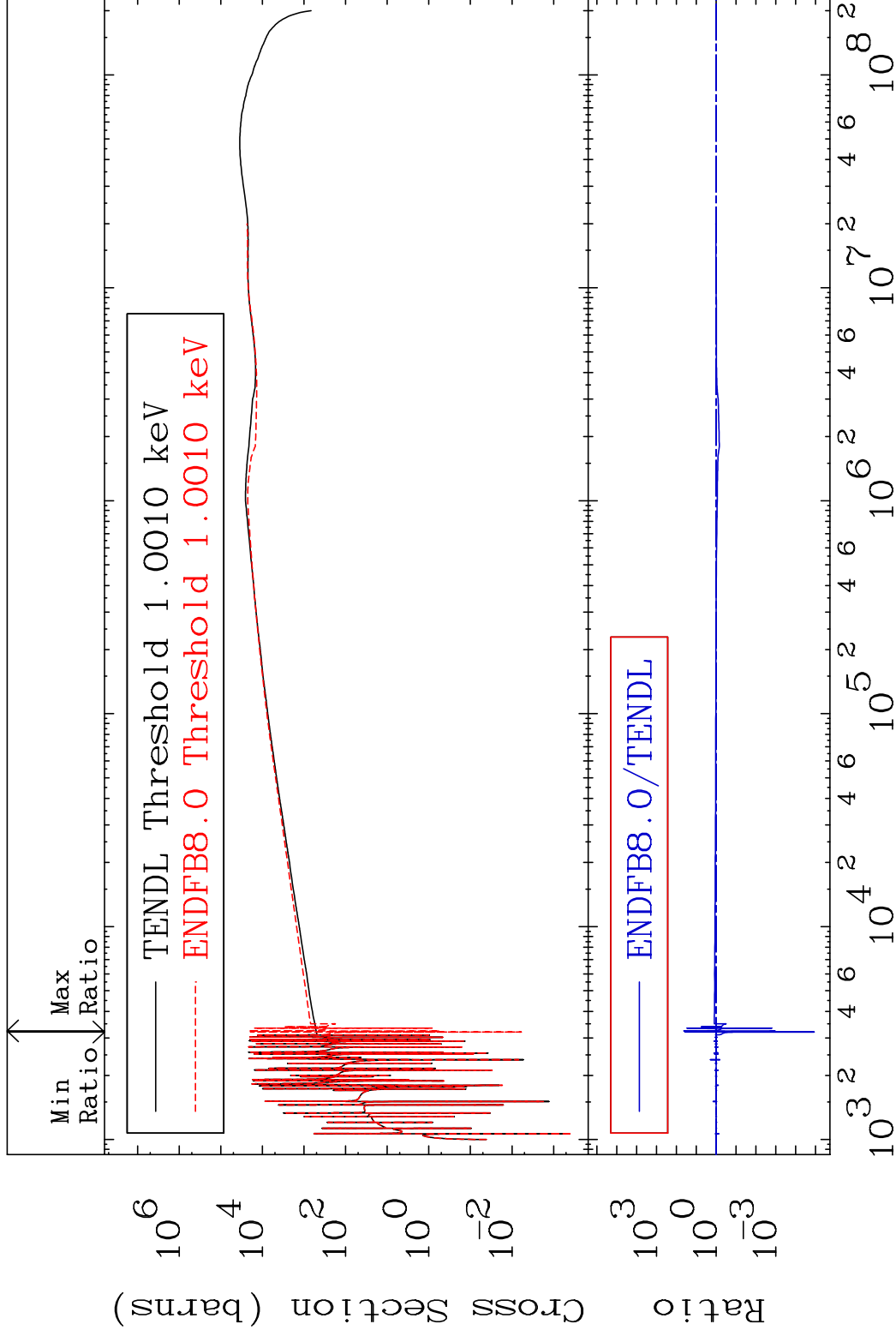
70-Yb-172

MAT 7037

Dpa elastic (mt2)

70-Yb-172

Cross Section -100.0 To 4232. %



46

Incident Energy (eV)

70-Yb-172

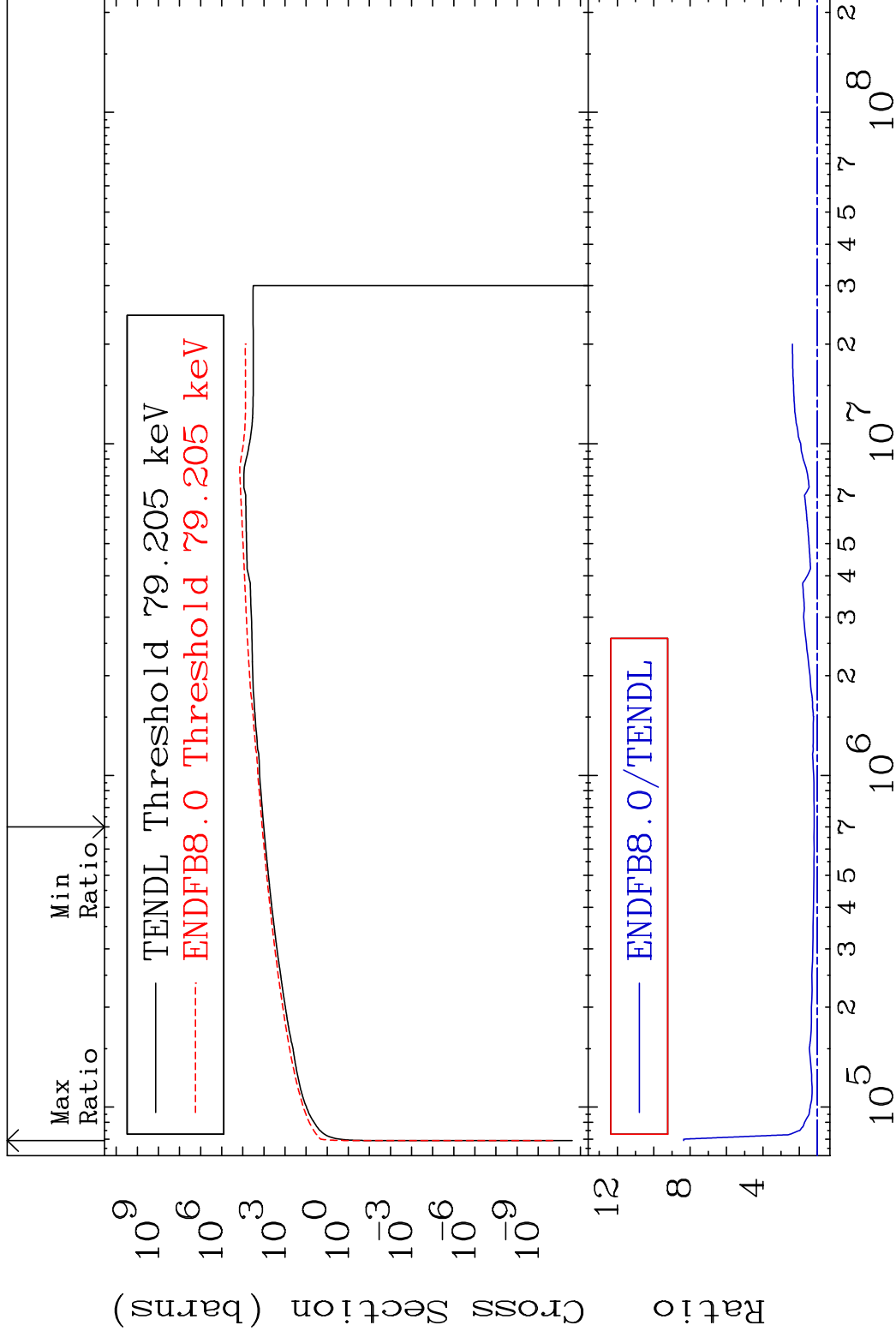
MAT 7037

Dpa inelastic (mt51-91)

70-Yb-172

Cross Section 18.39

To 735.5 %



47

Incident Energy (eV)

70-Yb-172

MAT 7037 Dpa disappearance (mt102 -120) 70-Yb-172
 Cross Section -94.83 To 9999. %

