

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

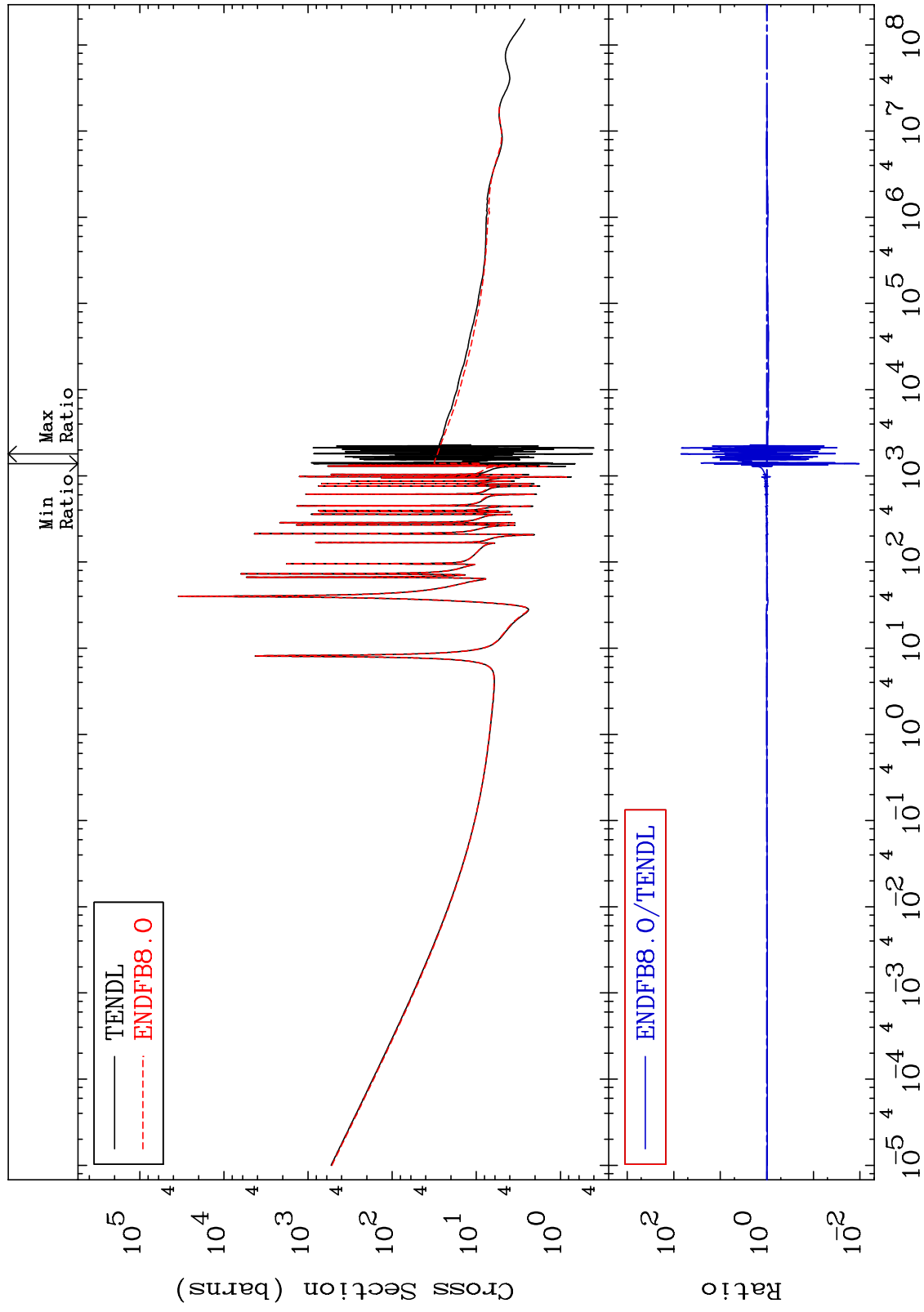
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7031

Total
Cross Section

70-Yb-170
-98.95 To 6923. %



1

Incident Energy (eV)

70-Yb-170

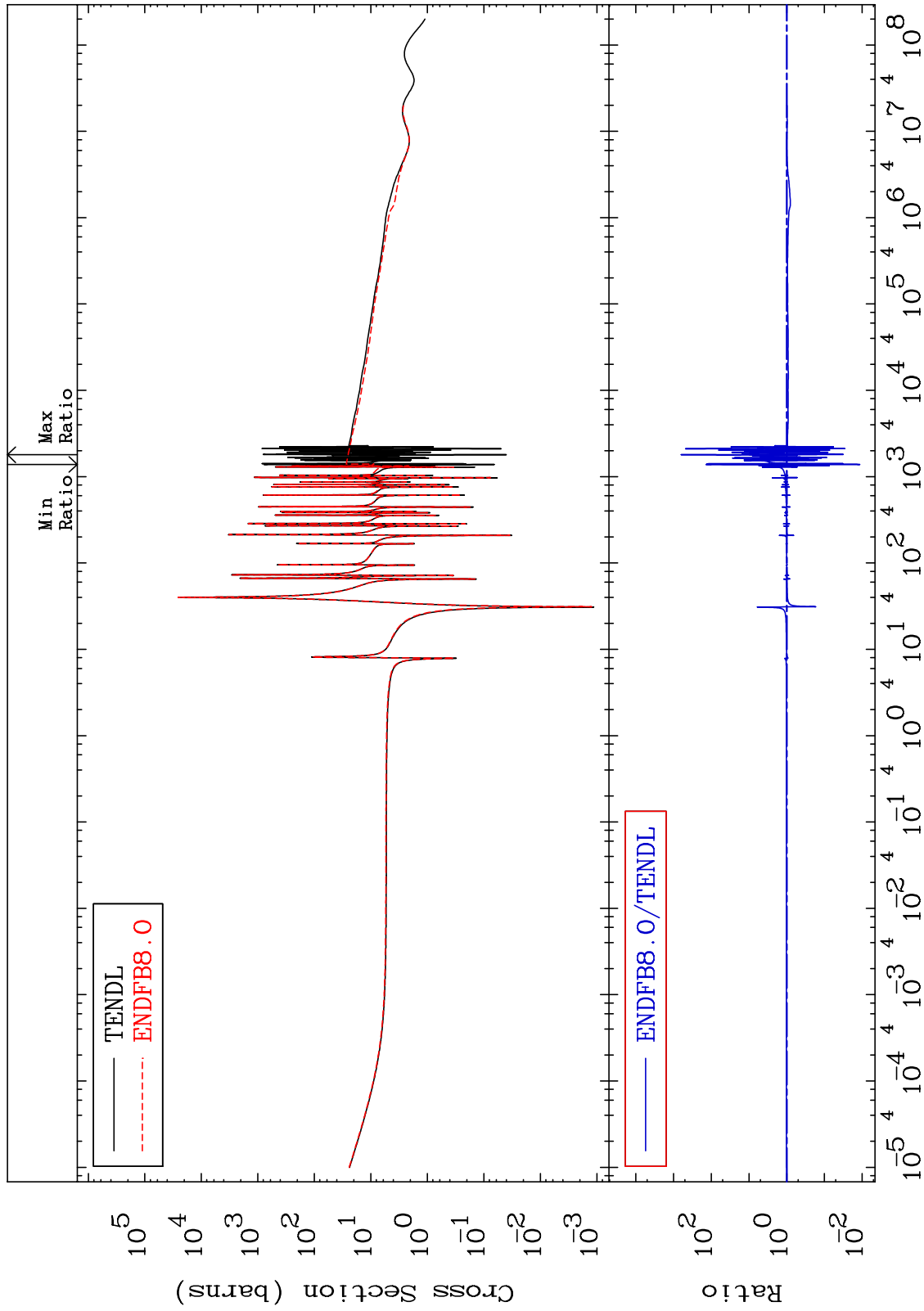
MAT 7031

Elastic

70-Yb-170

Cross Section

-98.84 To 9999. %

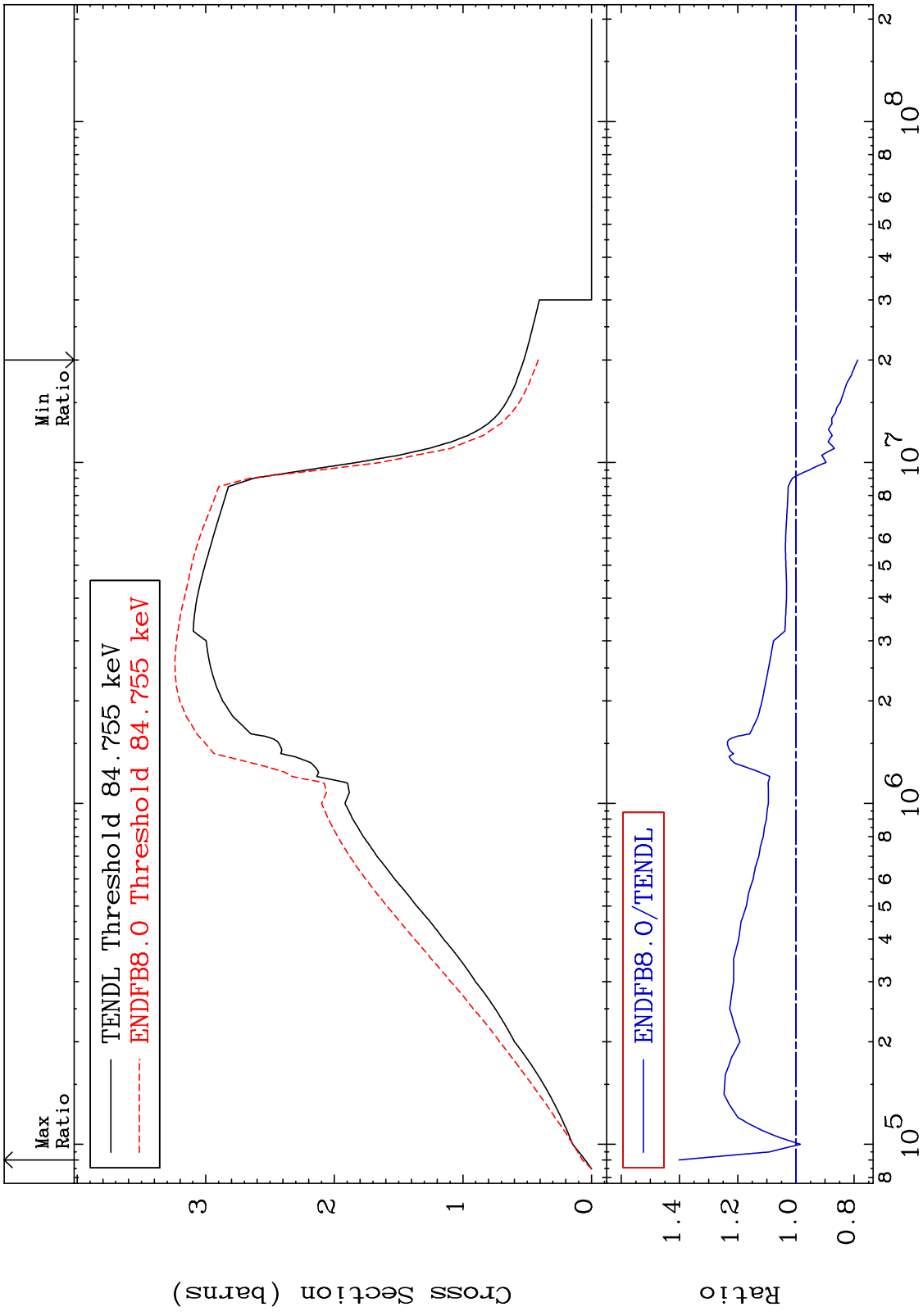


2

Incident Energy (eV)

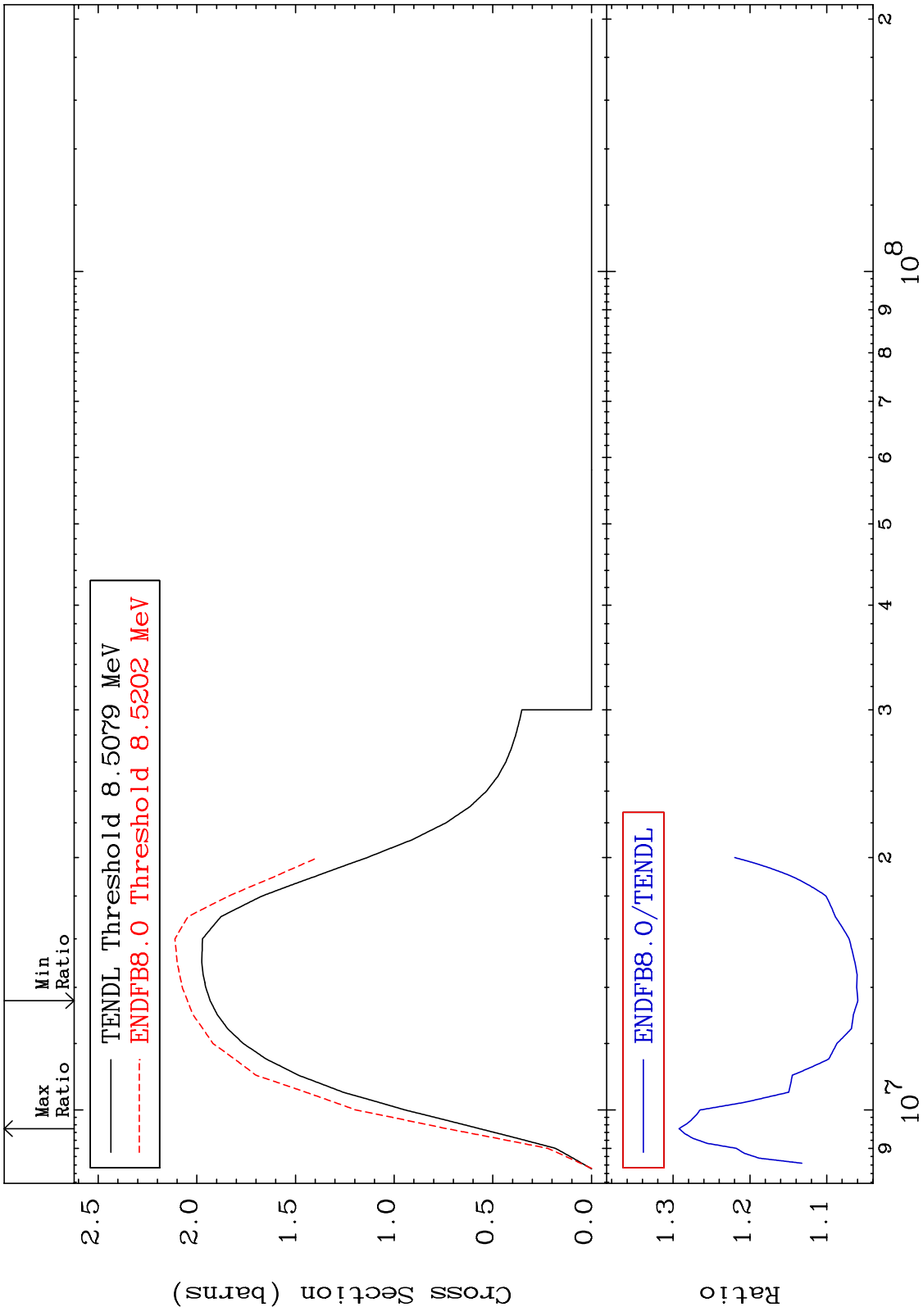
70-Yb-170

MAT 7031 Inelastic Cross Section 70-Yb-170 -21.26 To 40.16 %

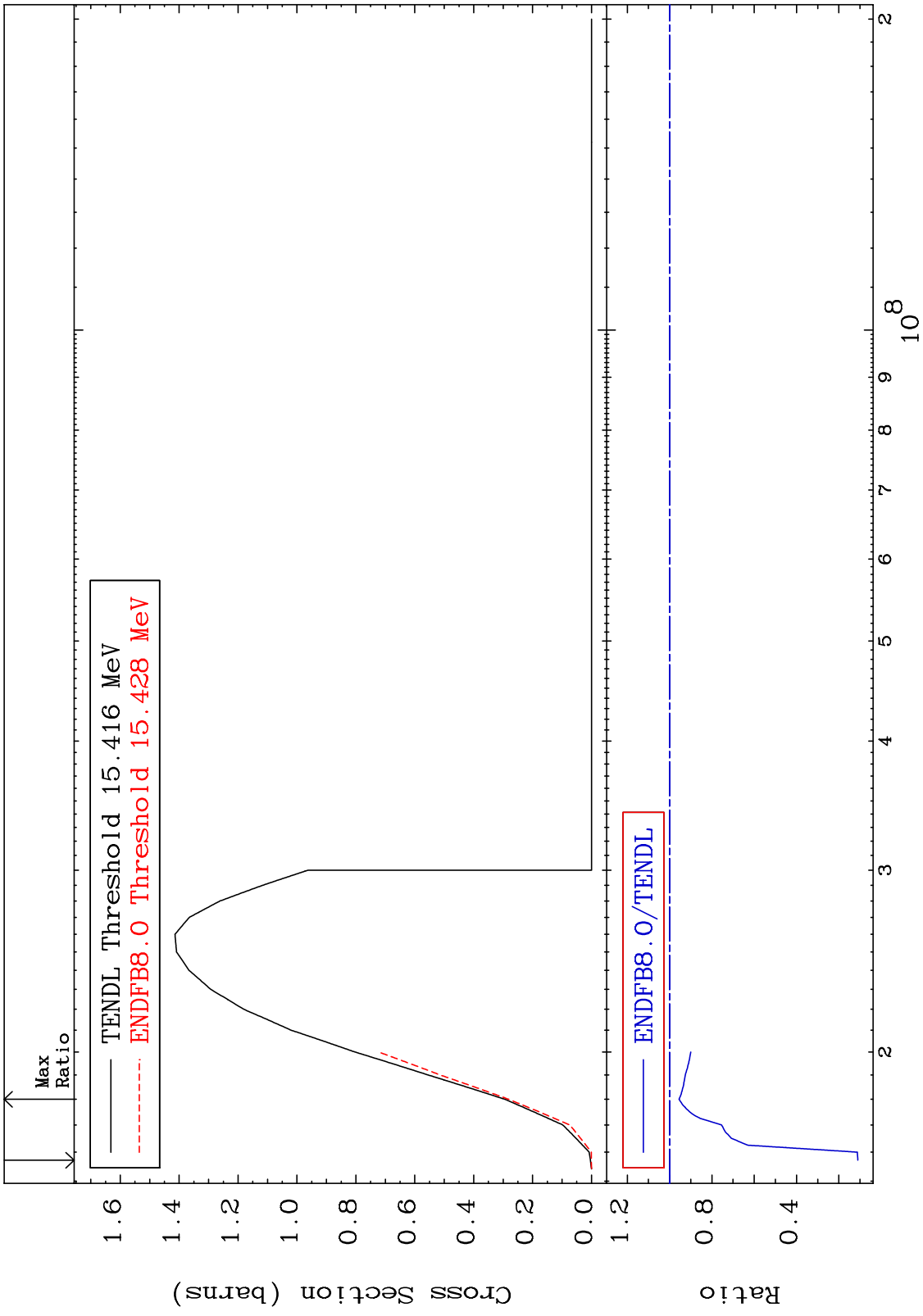


3 Incident Energy (eV) 70-Yb-170

MAT 7031 (n,2n) Cross Section 70-Yb-170 5.954 To 29.24 %



4 Incident Energy (eV) 70-Yb-170



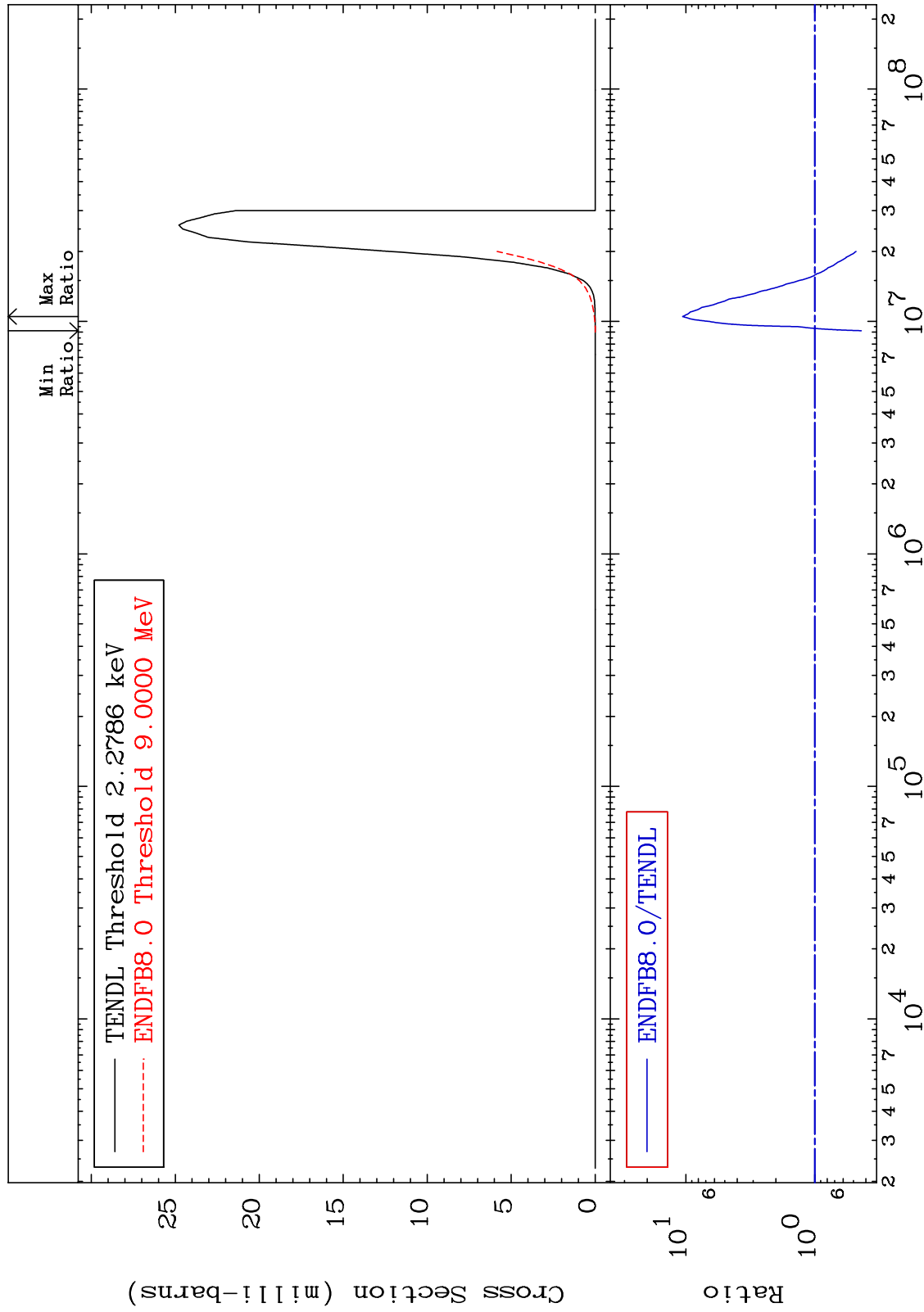
MAT 7031

$(n, n') \alpha$

70-Yb-170

Cross Section

-56.56 To 959.2 %



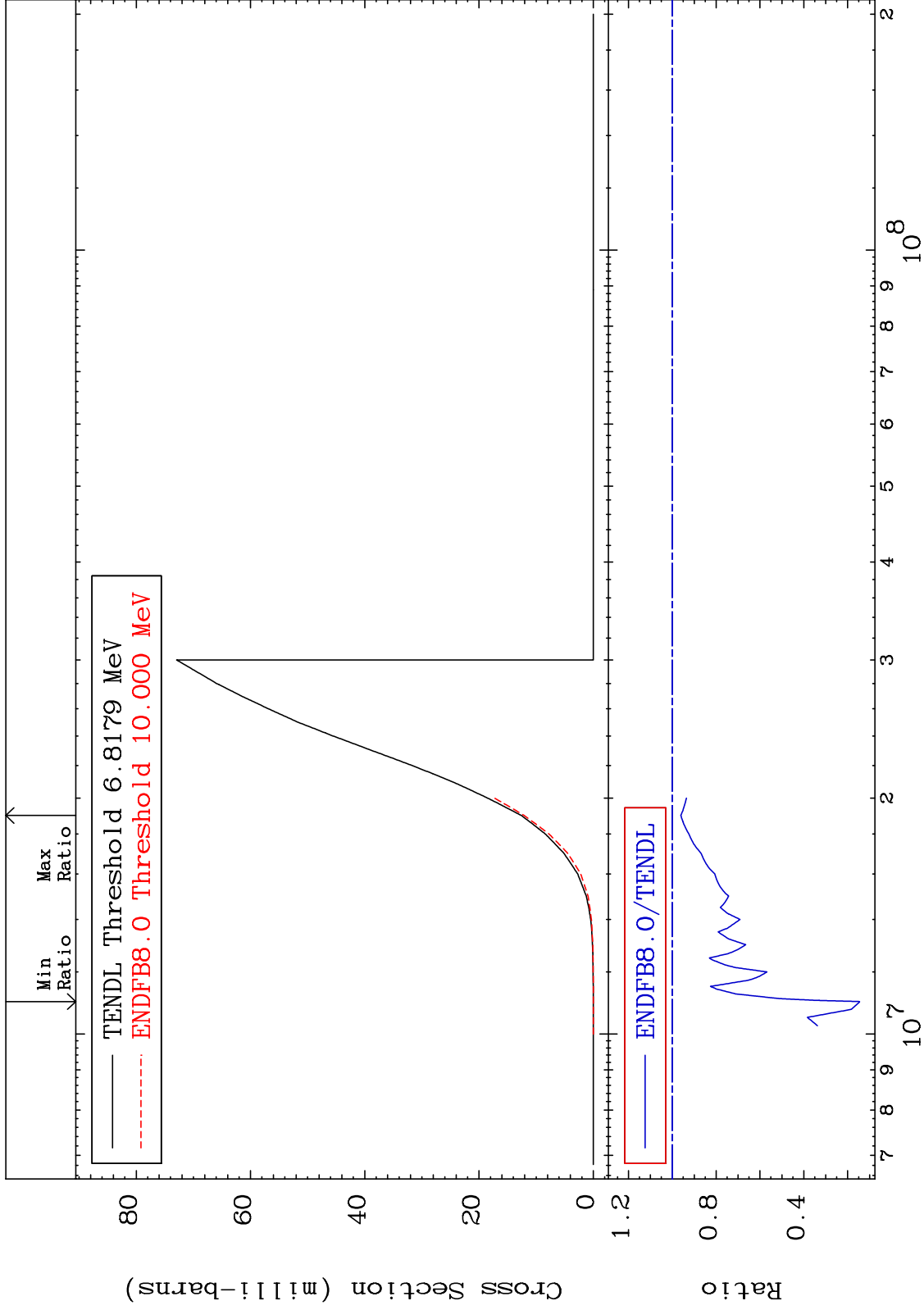
6

70-Yb-170

MAT 7031

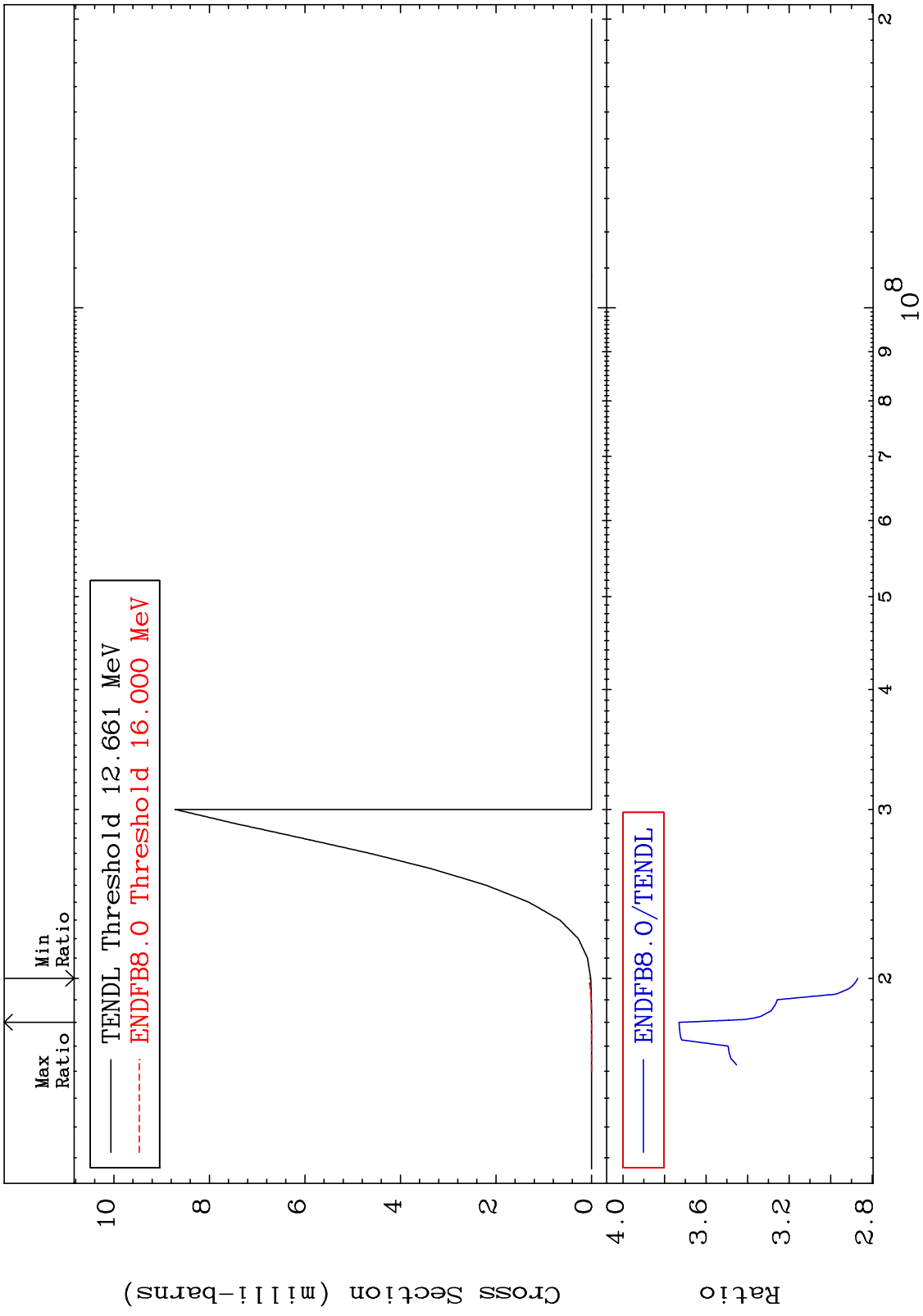
(n,n') p
Cross Section

$^{70}\text{Yb-170}$
-85.47 To -3.892%

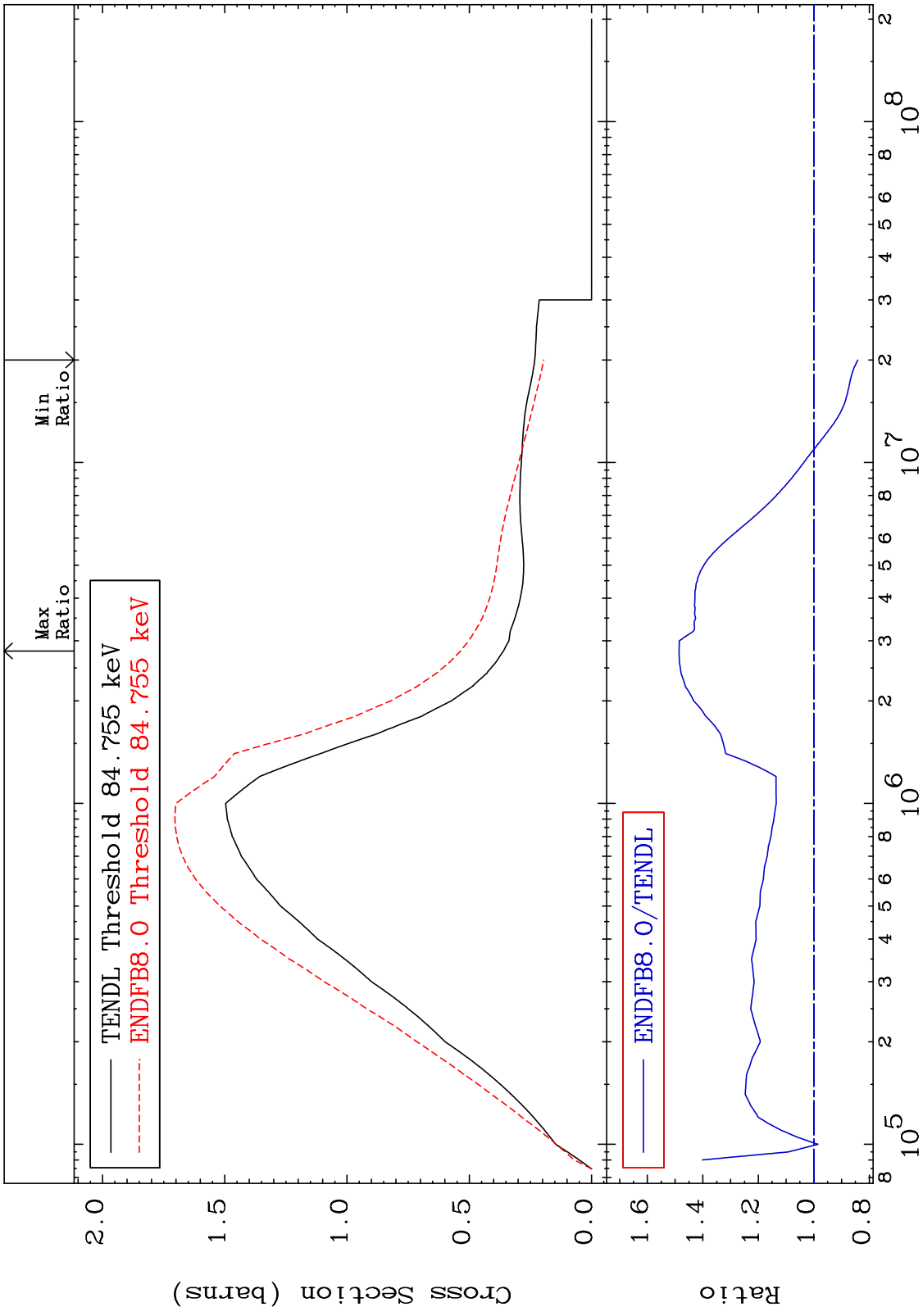


7

MAT 7031 (n, n') d 70-Yb-170
 Cross Section 186.9 To 273.1 %



MAT 7031 MT= 51 (n,n') Level Cross Section -15.88 To 48.59 % 70-Yb-170

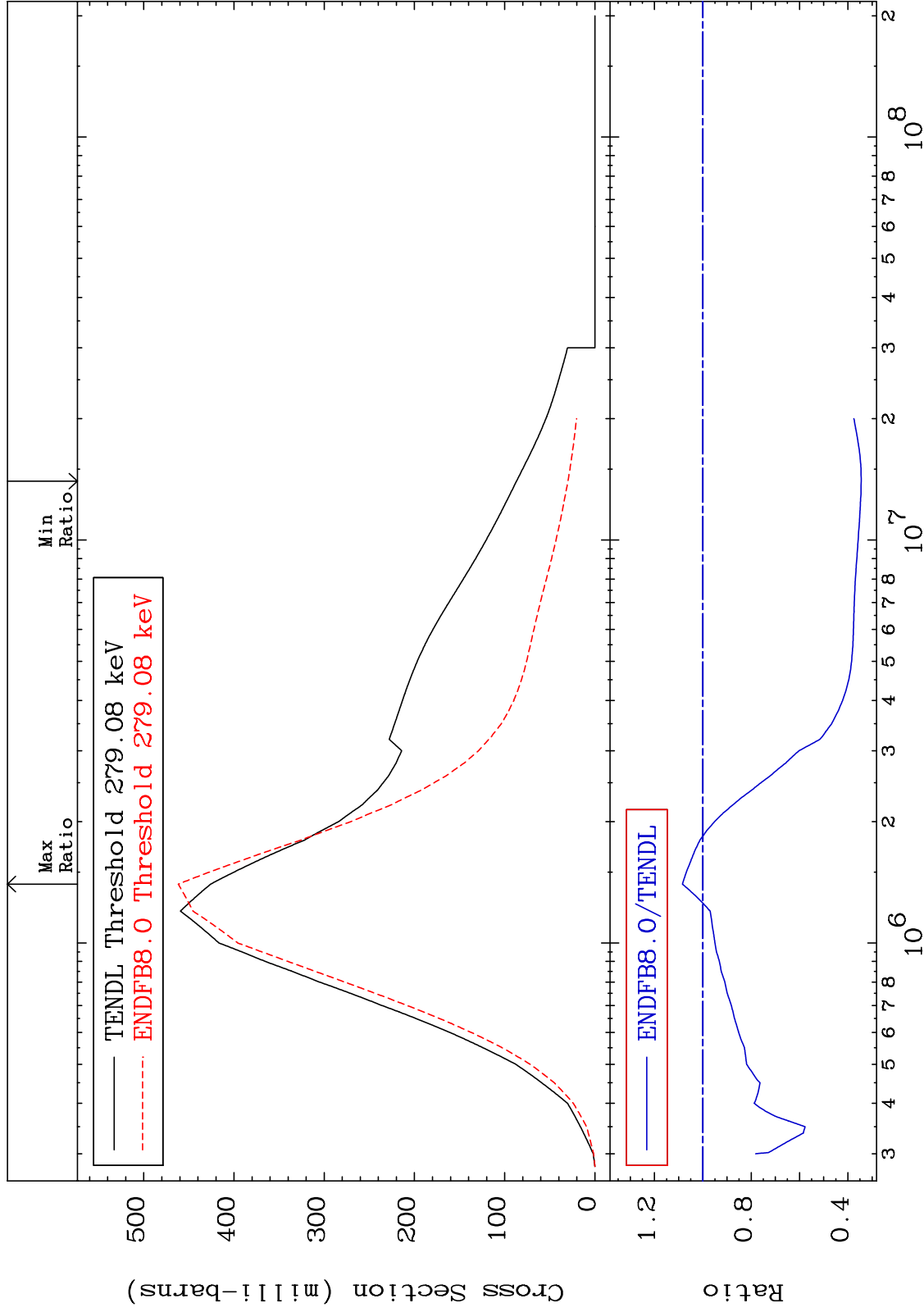


9 Incident Energy (eV) 70-Yb-170

MAT 7031

MT= 52 (n,n') Level
Cross Section

70-Yb-170
-65.54 To 8.421 %

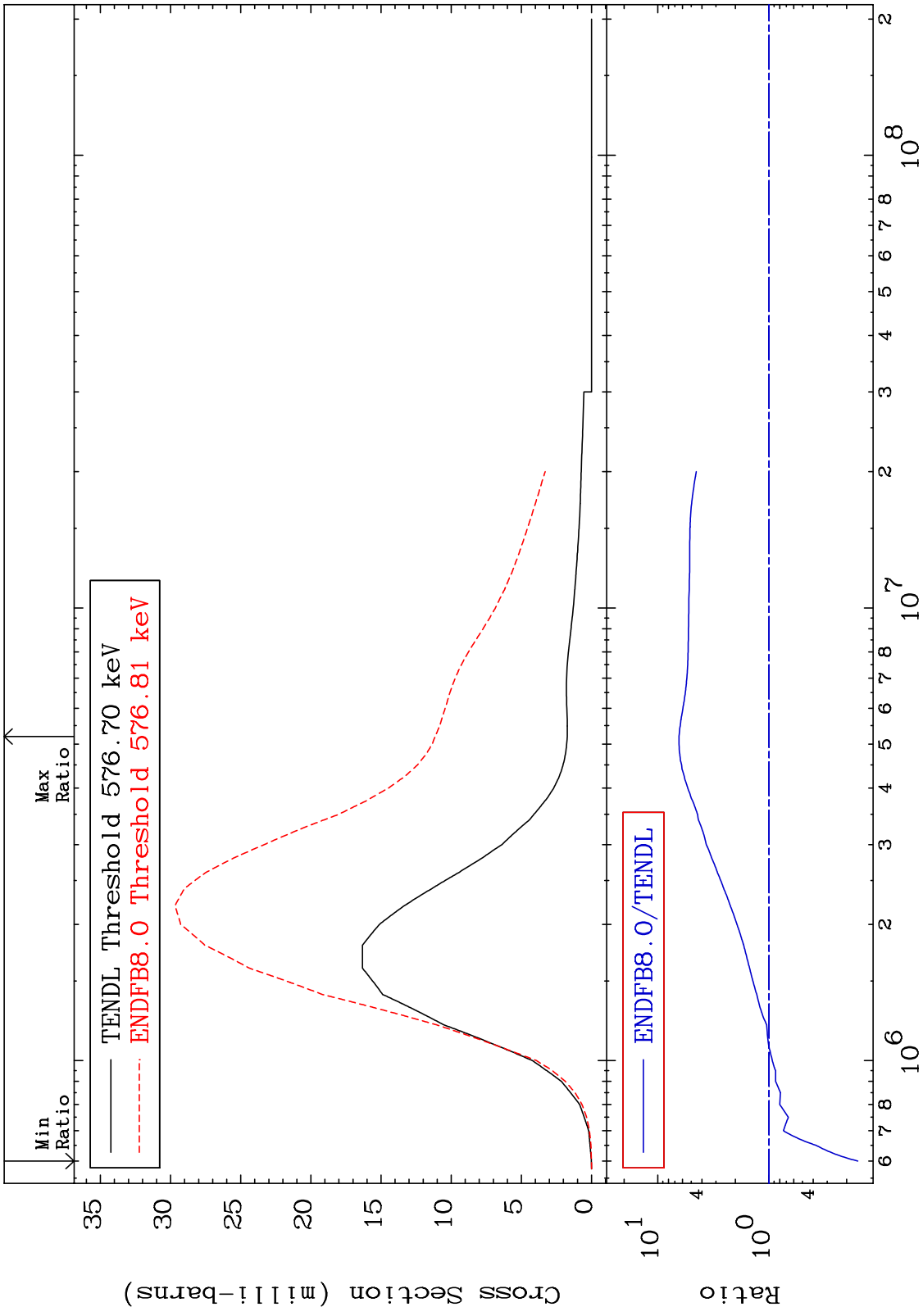


10

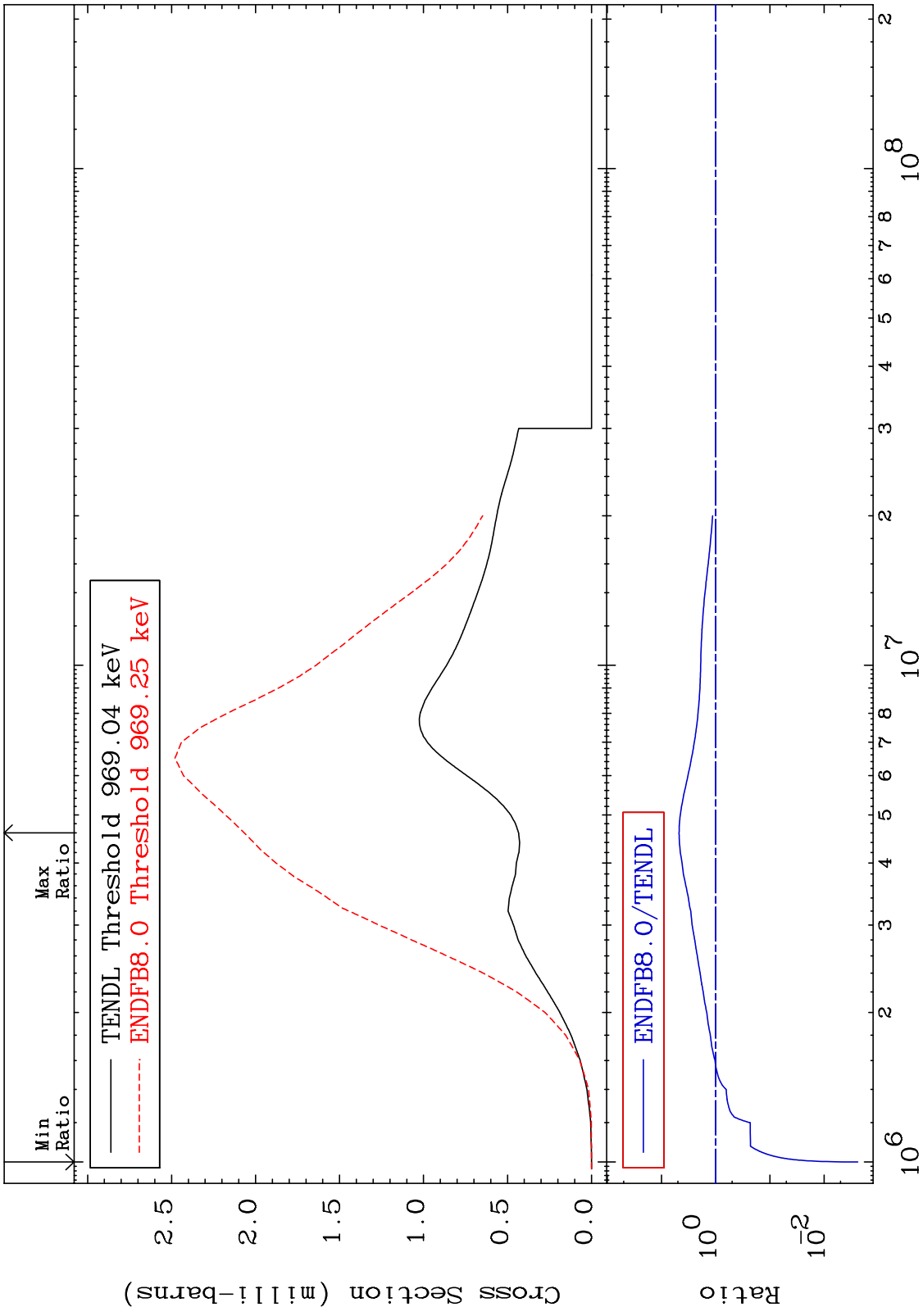
Incident Energy (eV)

70-Yb-170

MAT 7031 MT= 53 (n,n') Level Cross Section 70-Yb-170
 -84.10 To 542.8 %

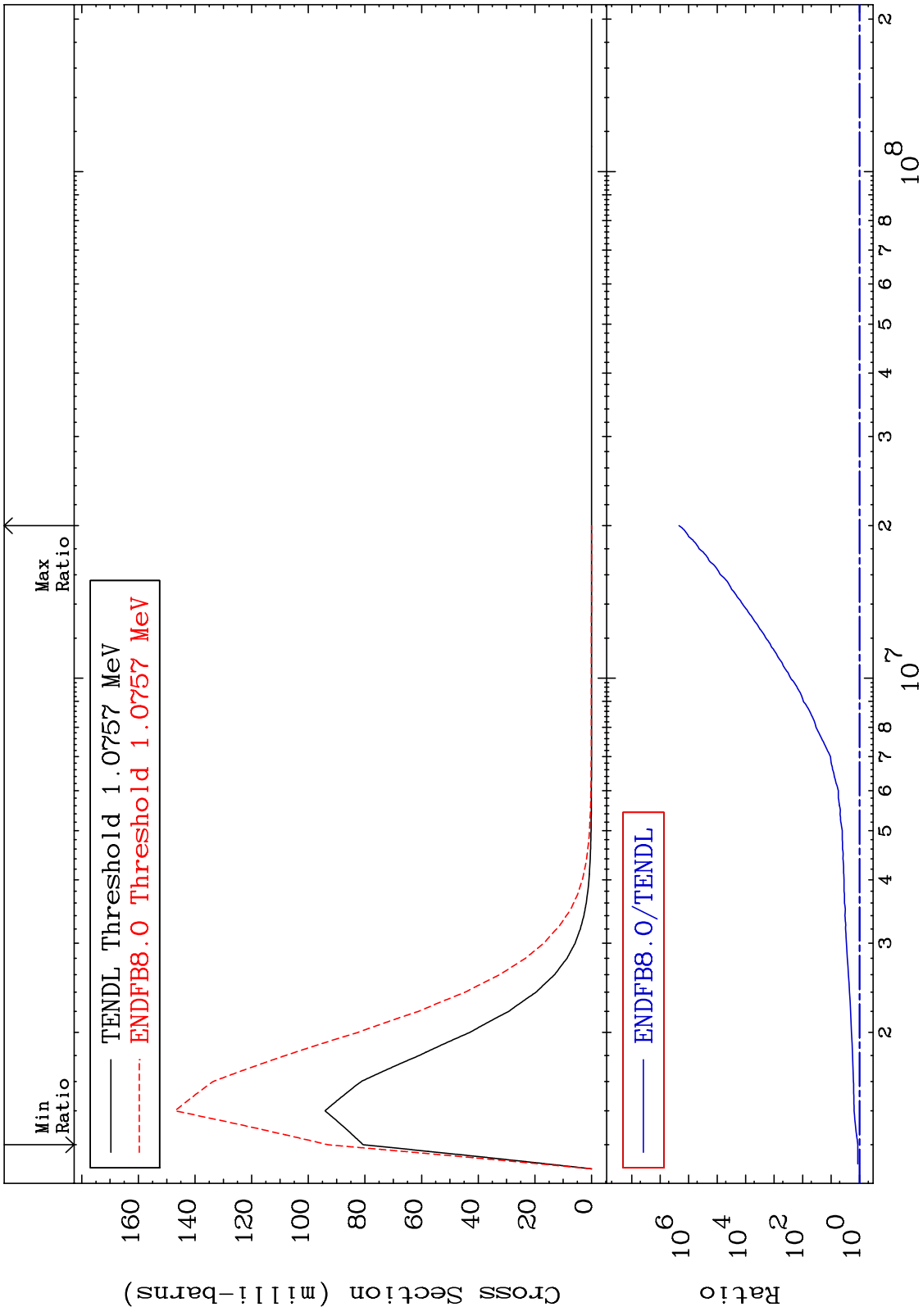


MAT 7031 MT= 54 (n,n') Level 70-Yb-170
Cross Section -99.76 To 376.4 %

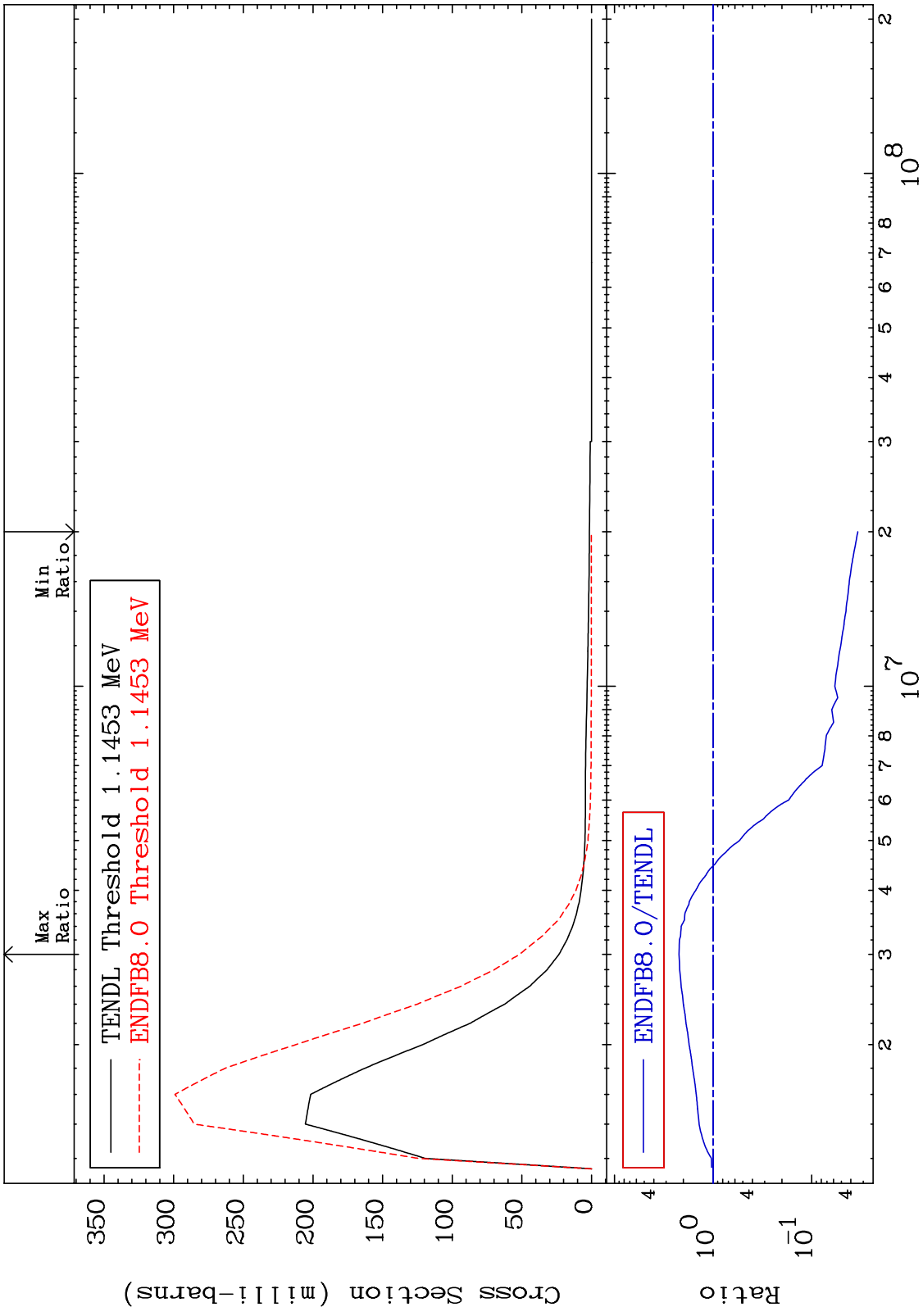


12 Incident Energy (eV) 70-Yb-170

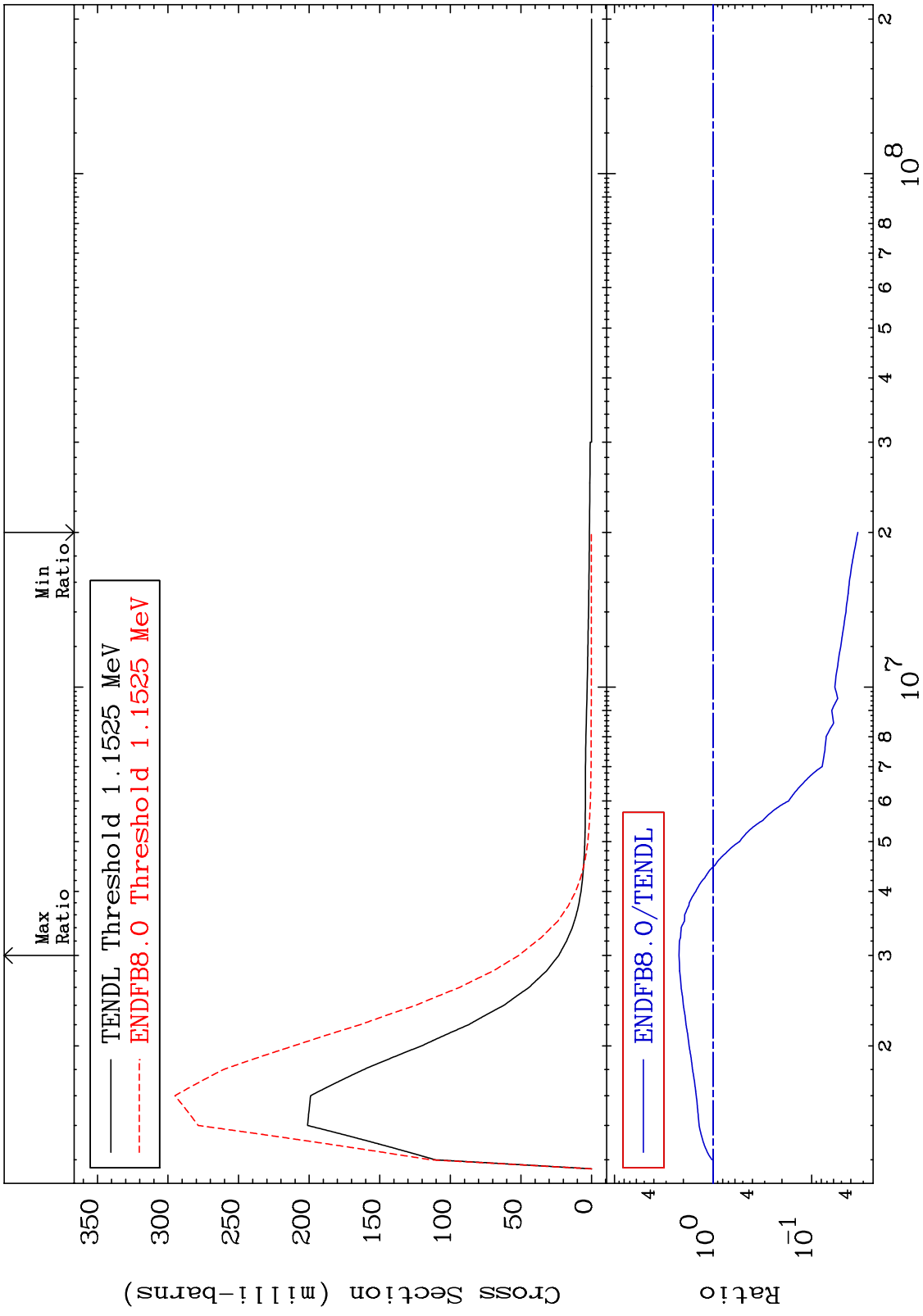
MAT 7031 MT= 55 (n,n') Level Cross Section 70-Yb-170 To 9999. %
 15.43



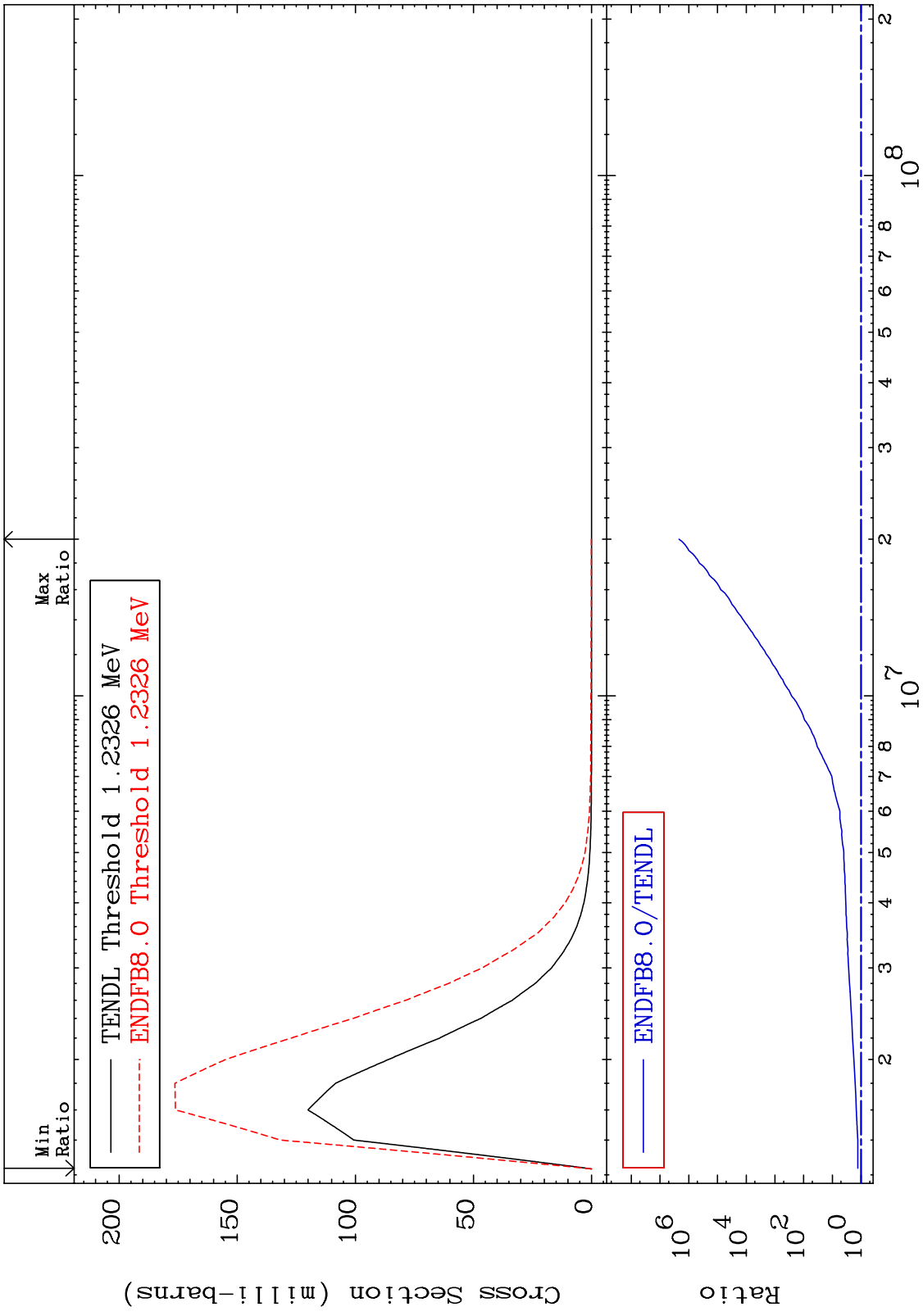
MAT 7031 MT= 56 (n,n') Level Cross Section 70-Yb-170
 -96.60 To 121.7 %



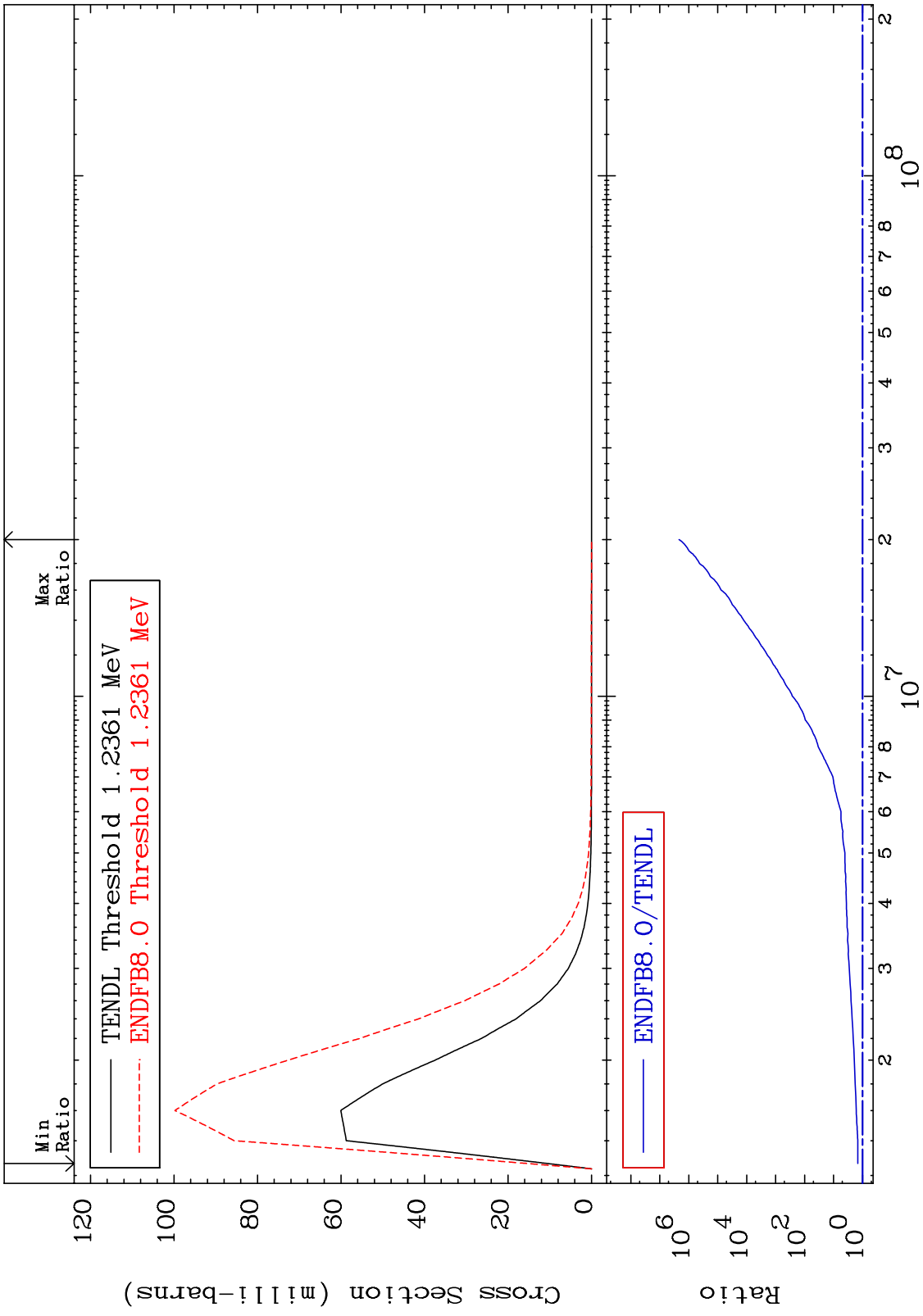
MAT 7031 MT= 57 (n, n') Level Cross Section 70-Yb-170 -96.60 To 121.6 %



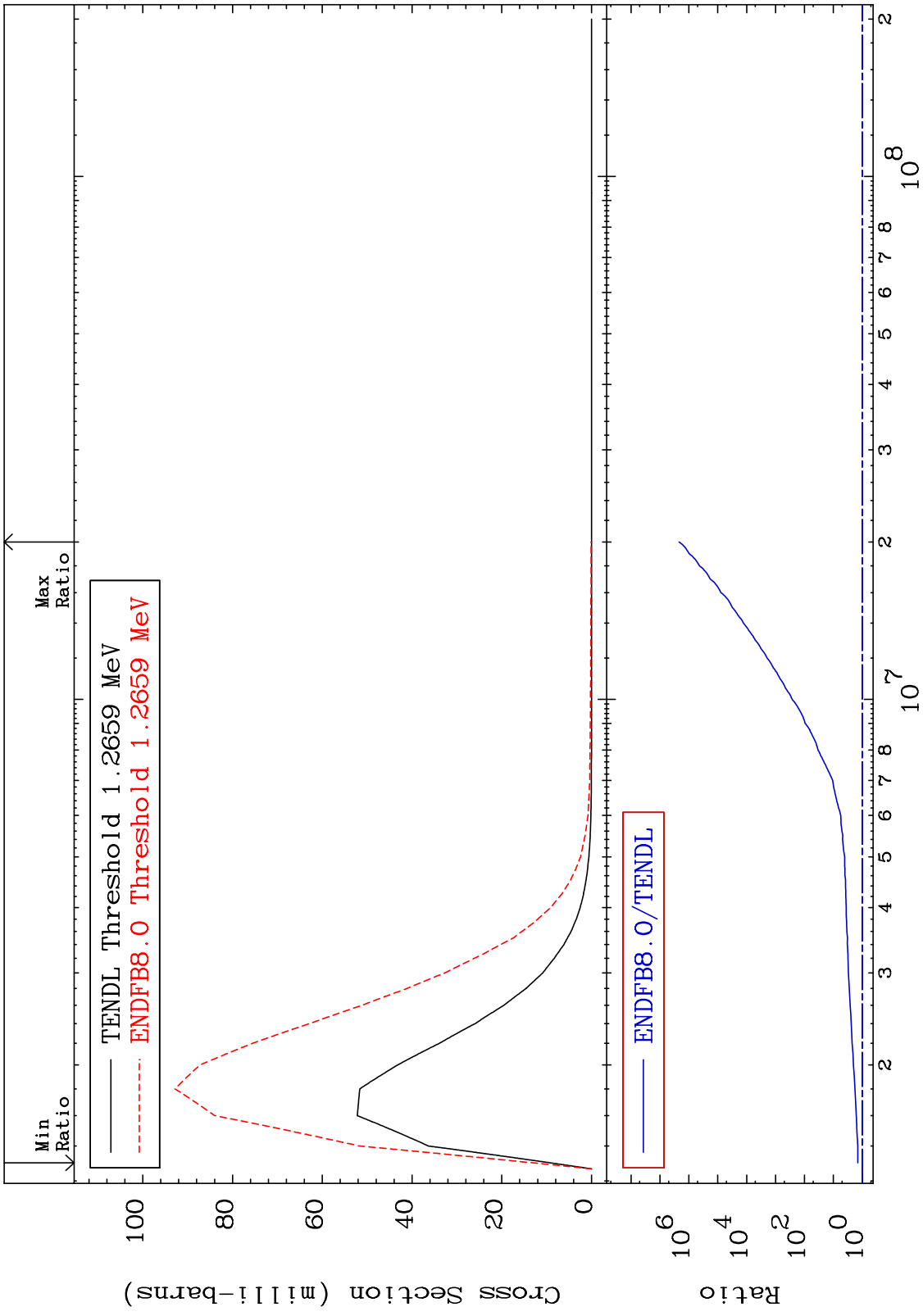
MAT 7031 MT= 58 (n,n') Level Cross Section 30.32 To 9999. % 70-Yb-170

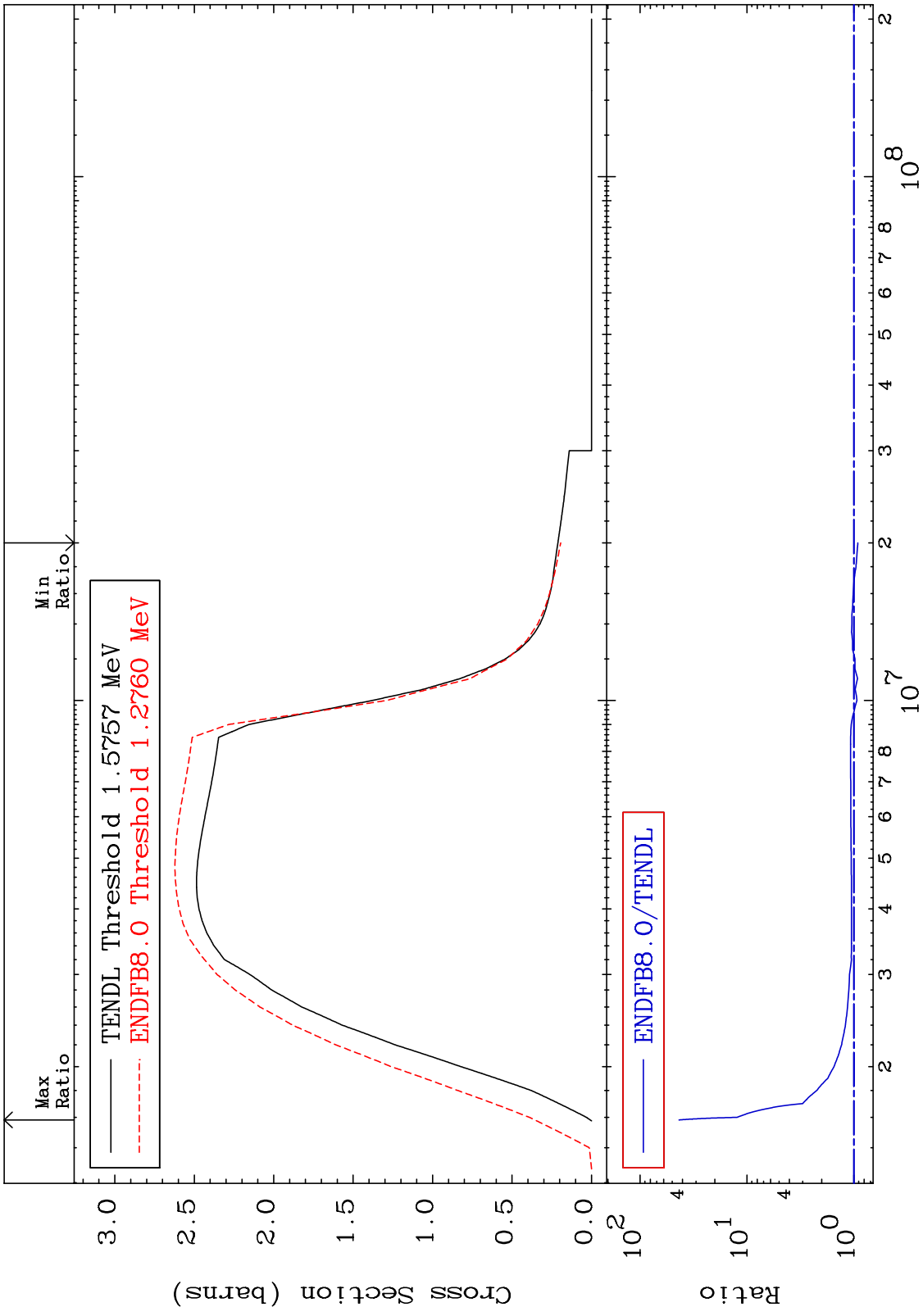


MAT 7031 MT= 59 (n,n') Level Cross Section 70-Yb-170 To 9999. %
 45.53



MAT 7031 MT= 60 (n,n') Level Cross Section 70-Yb-170 To 9999. %
 42.23

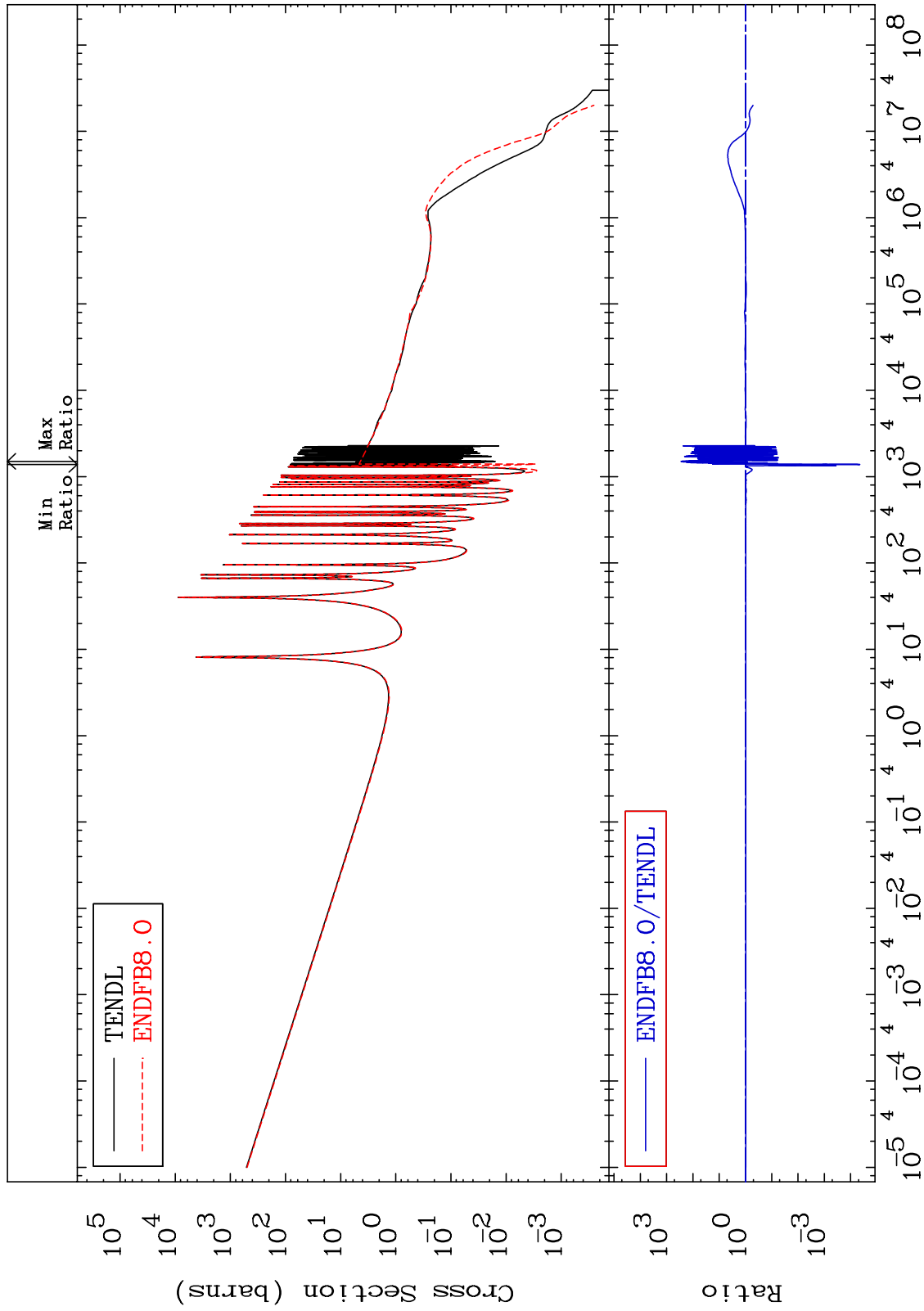




MAT 7031

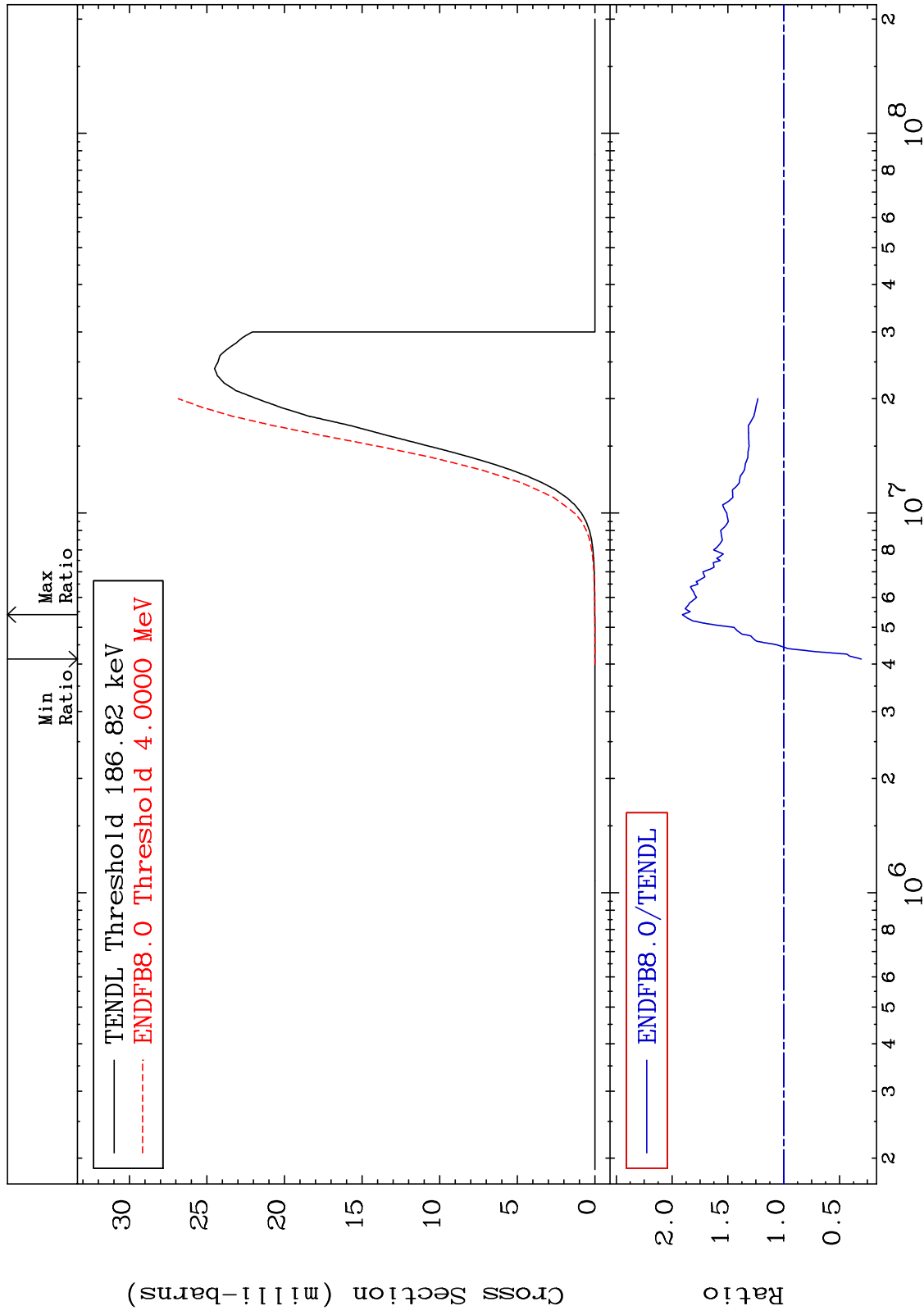
(n, γ)
Cross Section

70-Yb-170
-100.0 To 9999. %



MAT 7031

(n,p) Cross Section
70-Yb-170
-69.47 To 90.71 %



21

Incident Energy (eV)

70-Yb-170

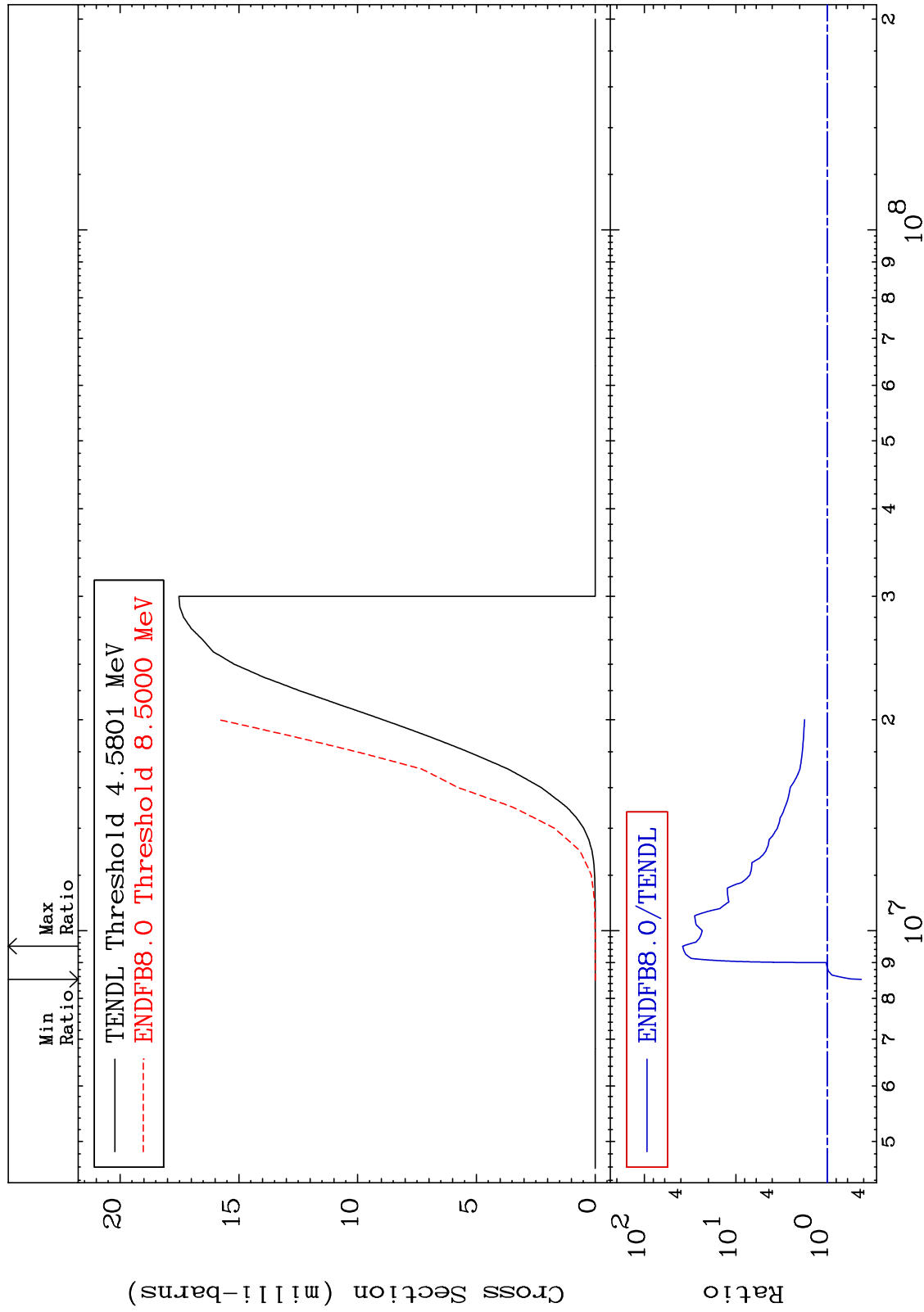
MAT 7031

(n,d)

70-Yb-170

Cross Section

-57.62 To 3718. %



MAT 7031

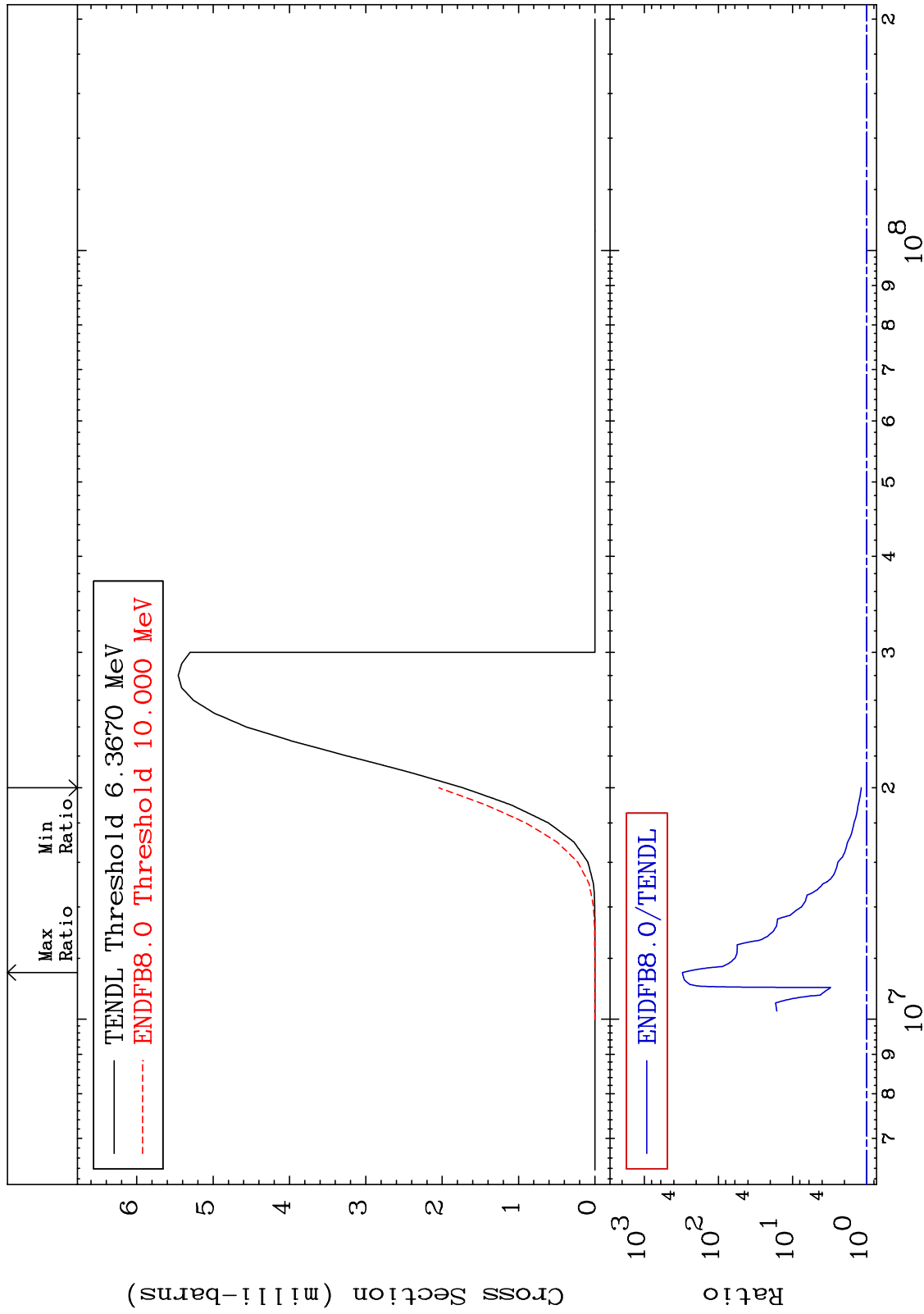
(n,t)

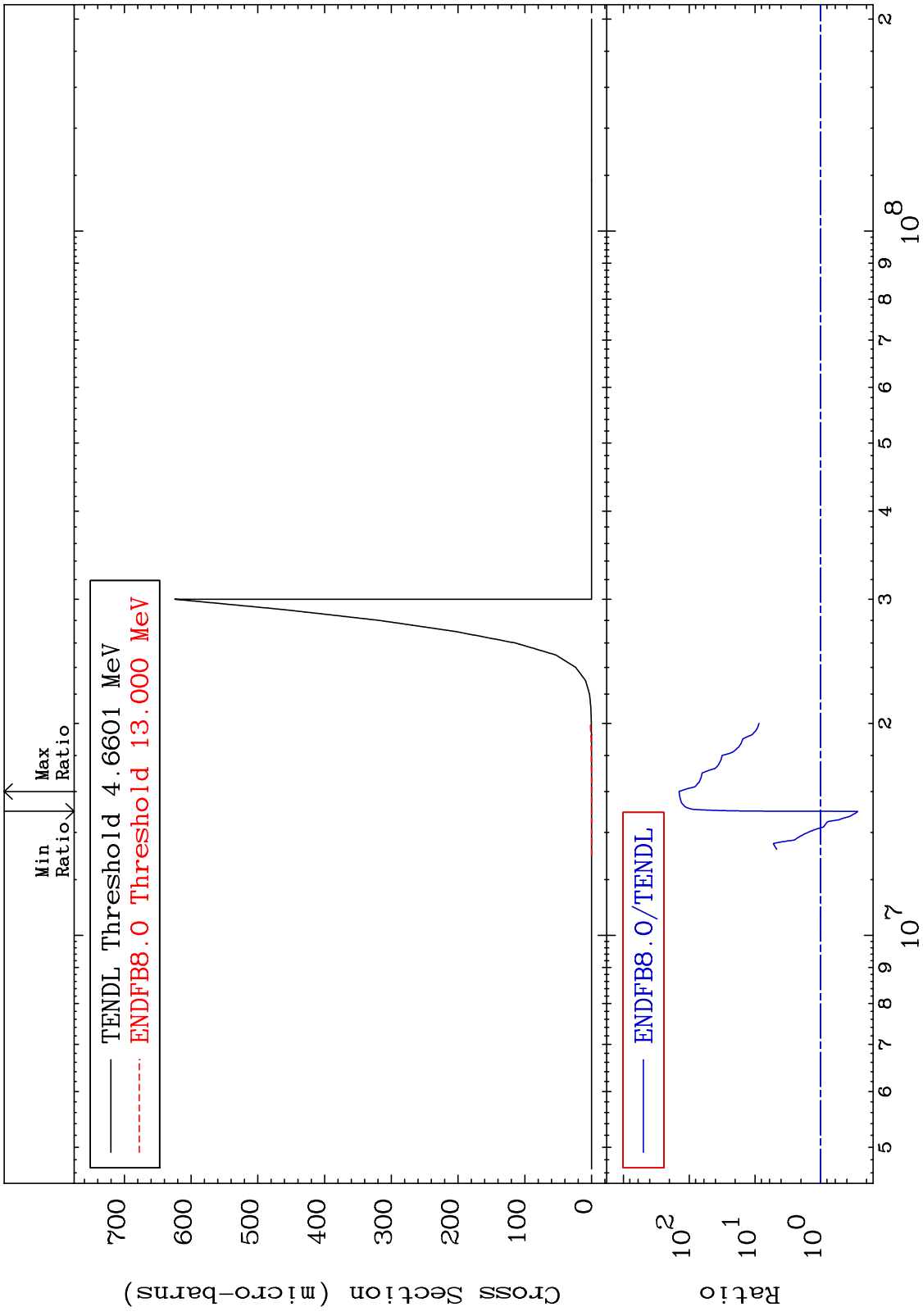
70-Yb-170

Cross Section

18.27

To 9999. %





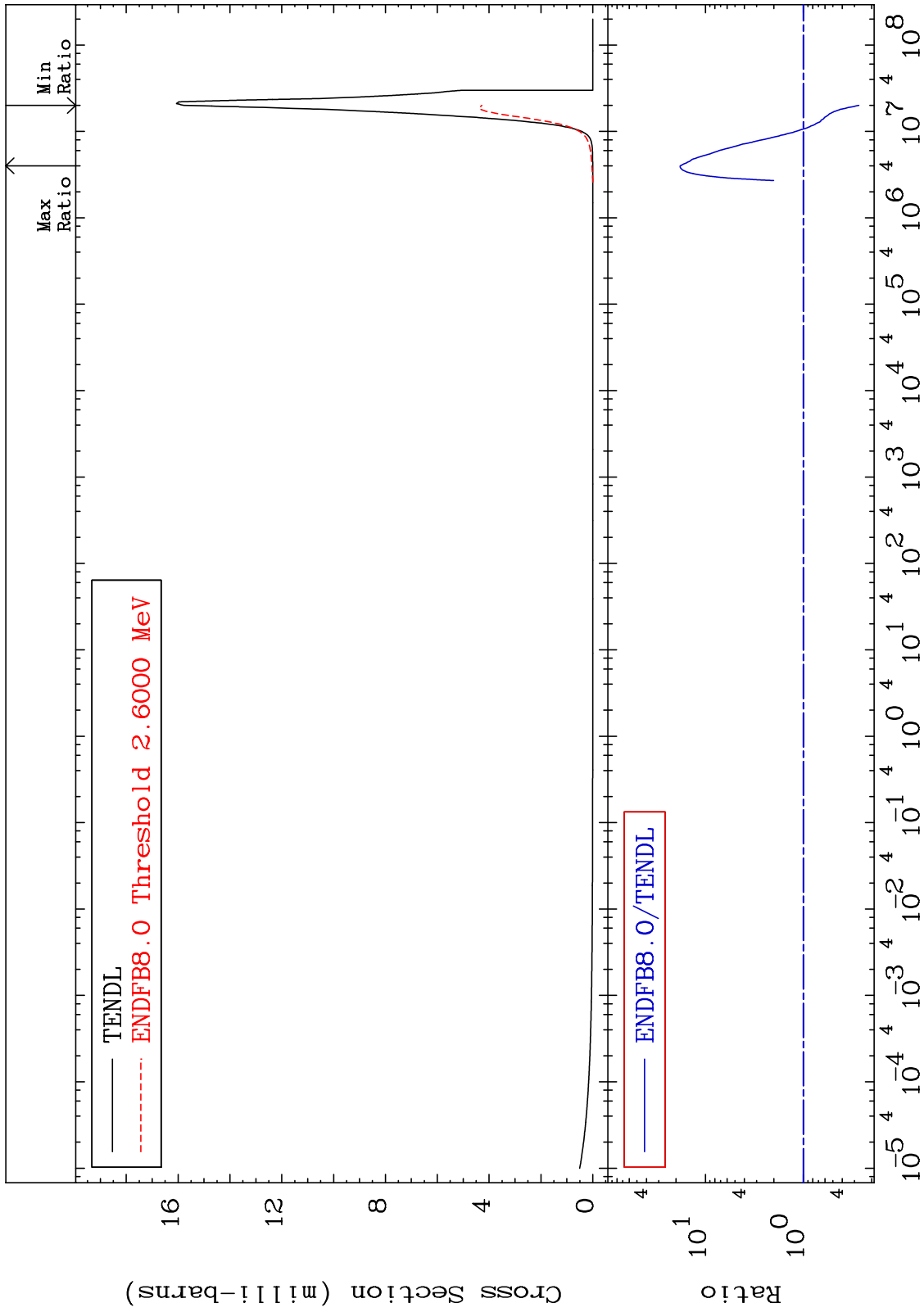
MAT 7031

(n, α)

70-Yb-170

Cross Section

-72.90 To 1708. %



25

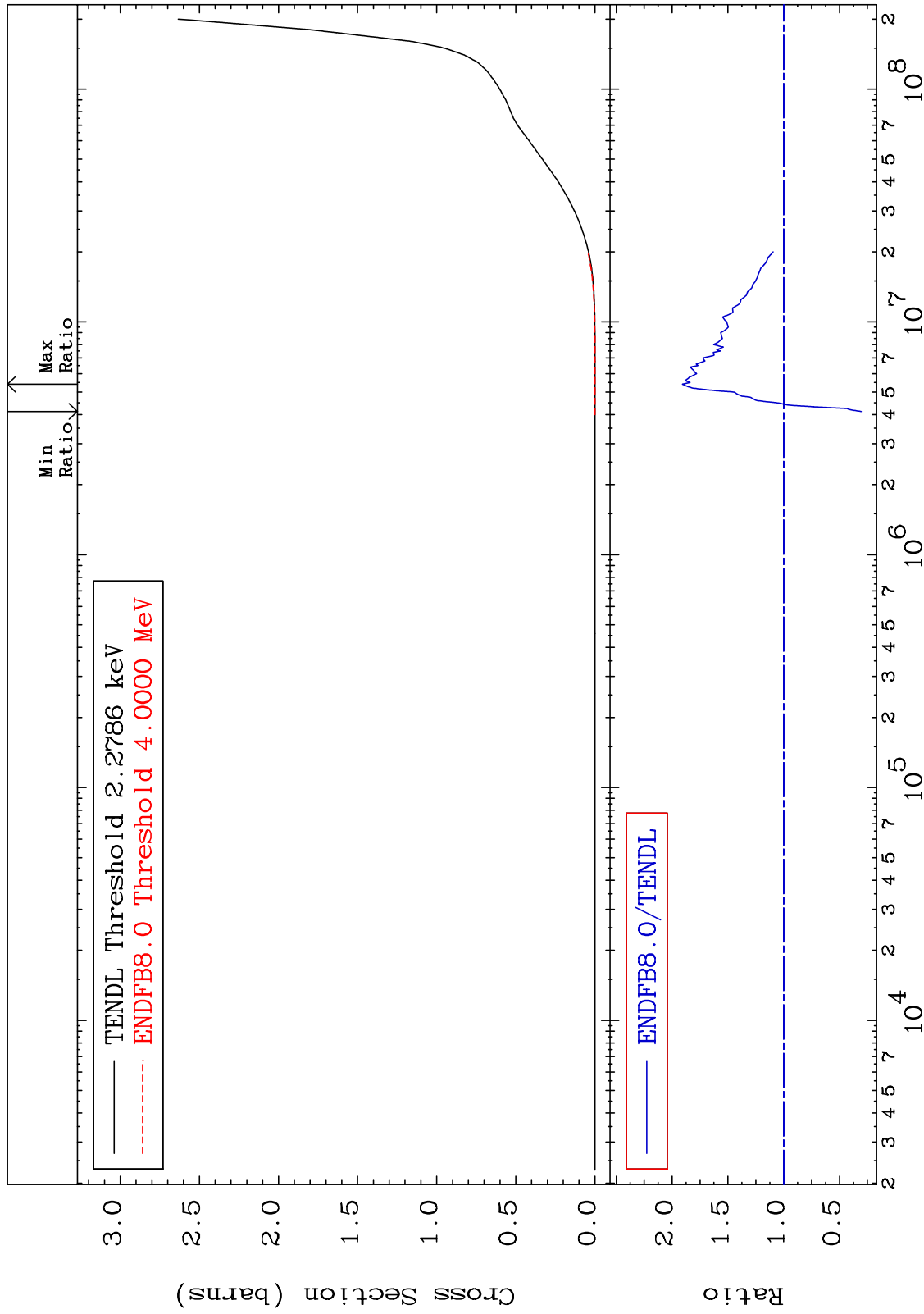
Incident Energy (eV)

70-Yb-170

MAT 7031

Hydrogen Production
Cross Section

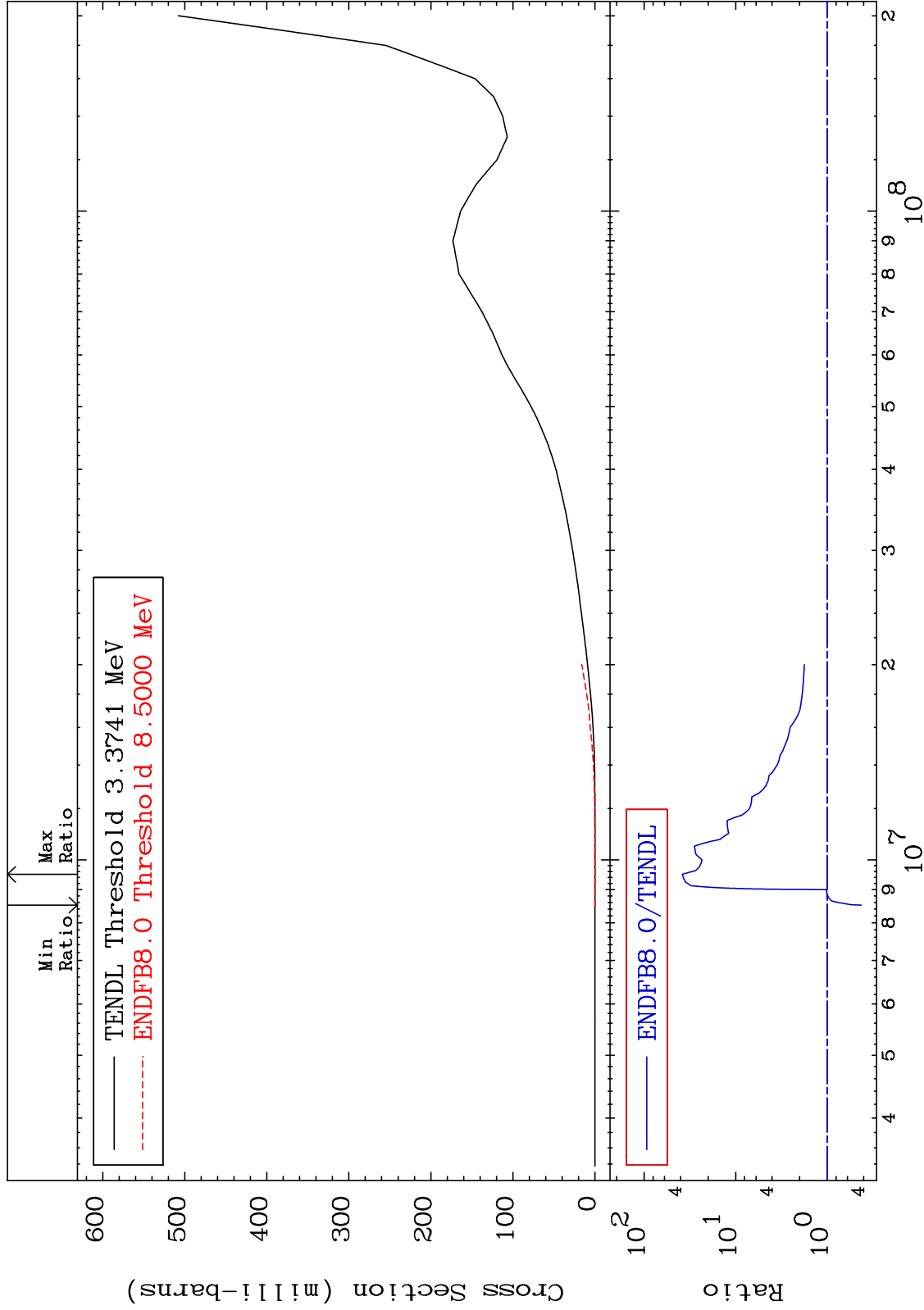
70-Yb-170
-69.47 To 90.71 %



MAT 7031

Deuterium Production
Cross Section

70-Yb-170
-57.62 To 3718. %



27

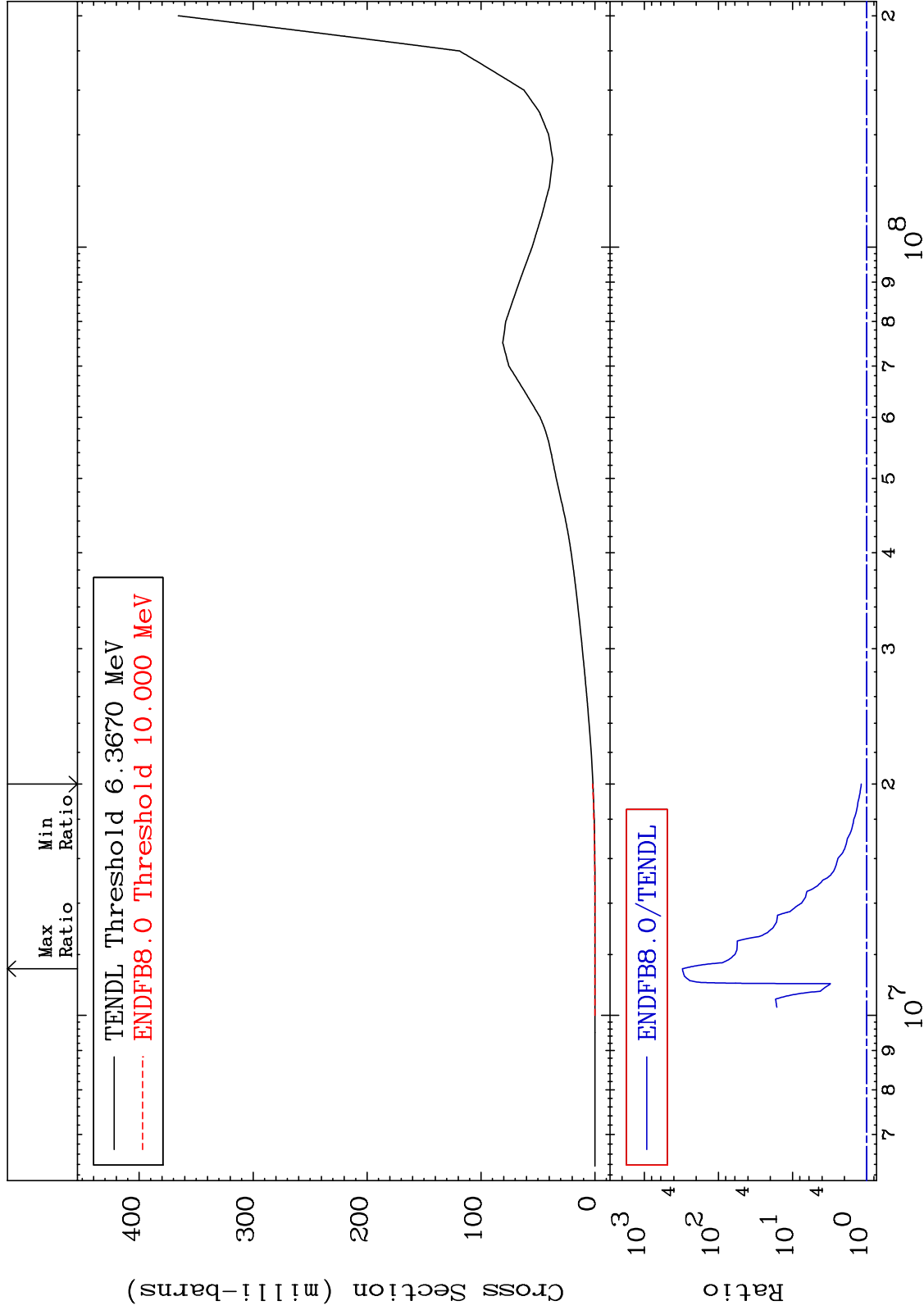
Incident Energy (eV)

70-Yb-170

MAT 7031

Tritium Production
Cross Section

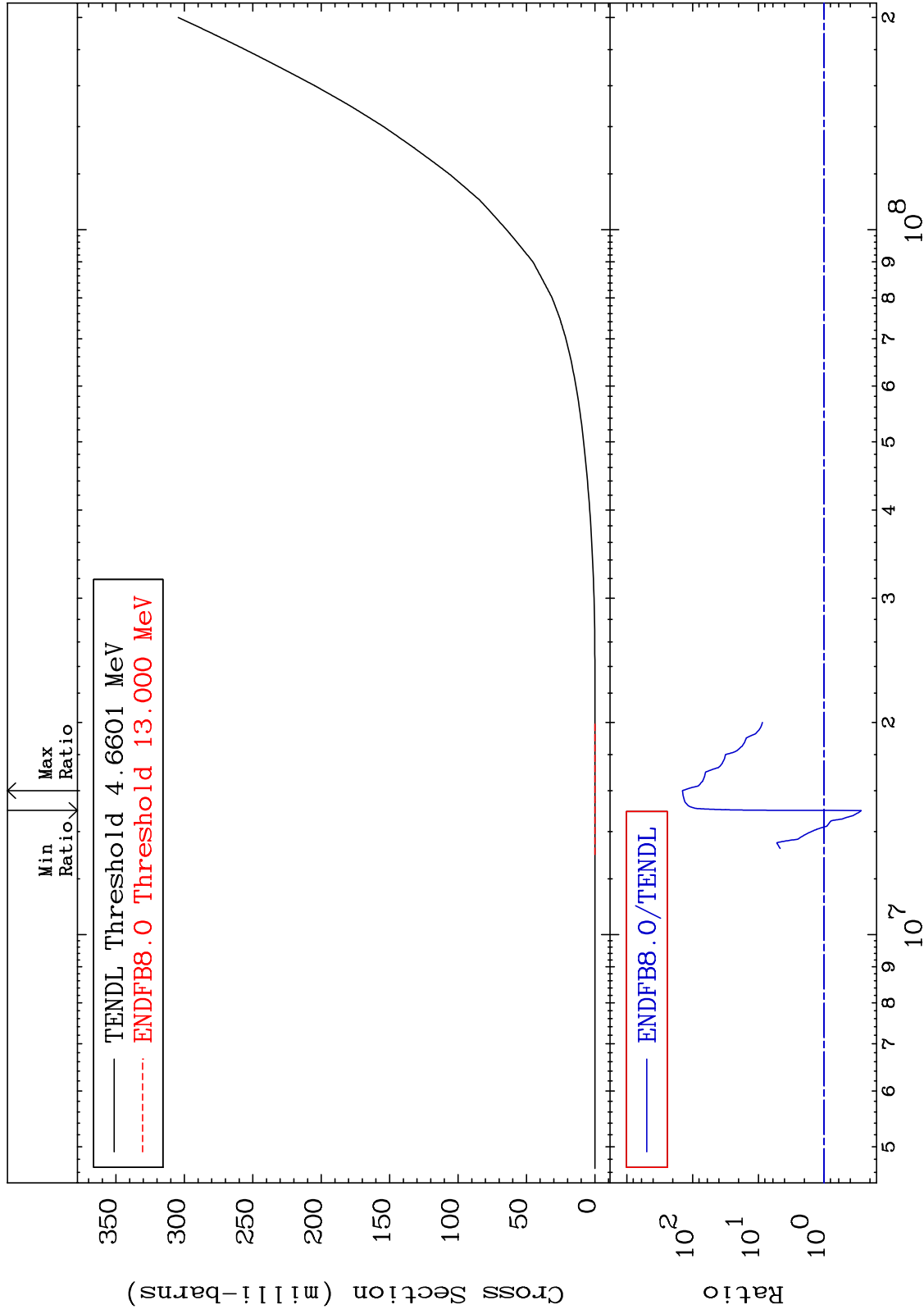
70-Yb-170
18.16 To 9999. %



MAT 7031

He-3 Production
Cross Section

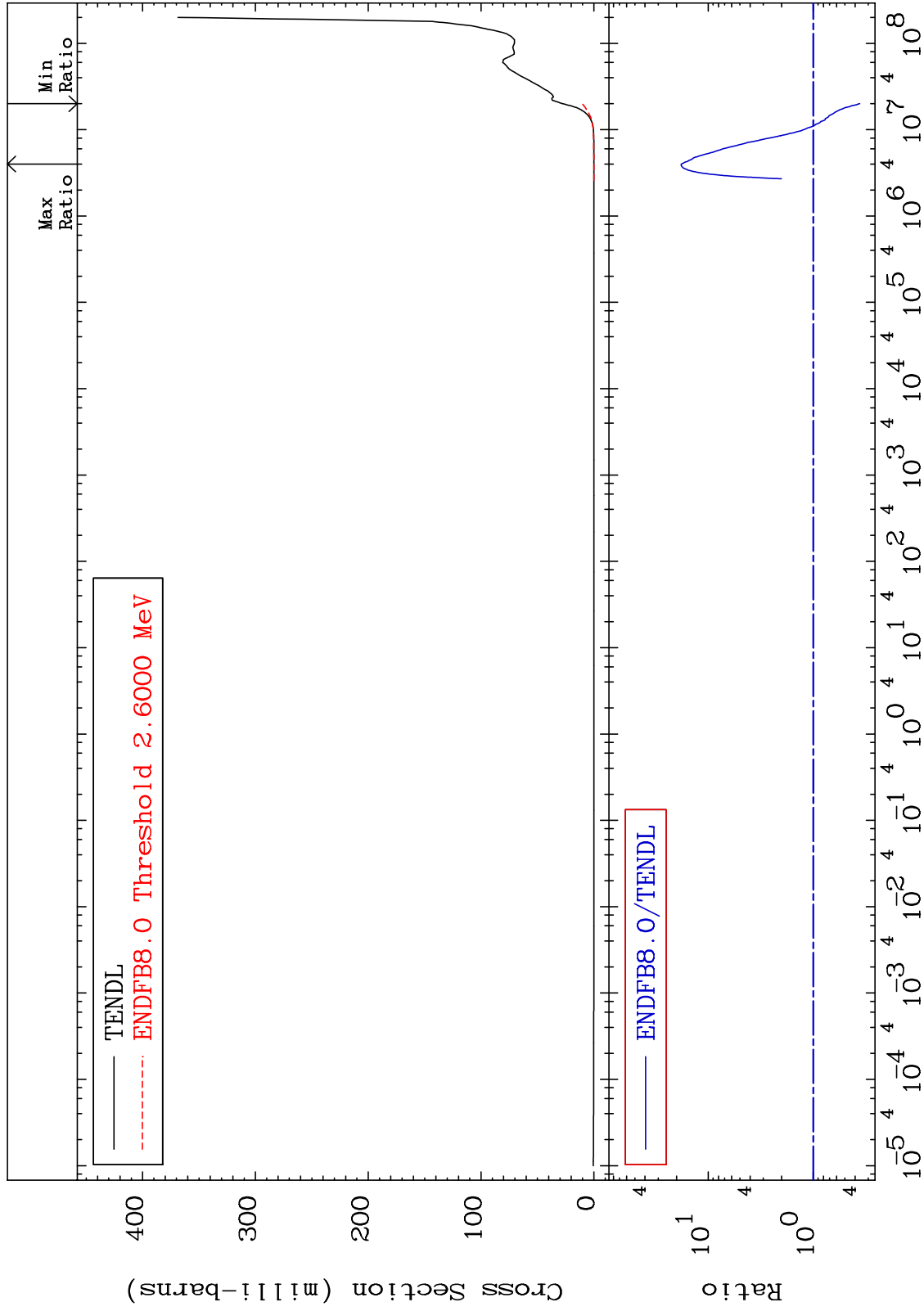
70-Yb-170
-72.80 To 9999. %



MAT 7031

He-4 Production
Cross Section

70-Yb-170
-63.91 To 1708. %

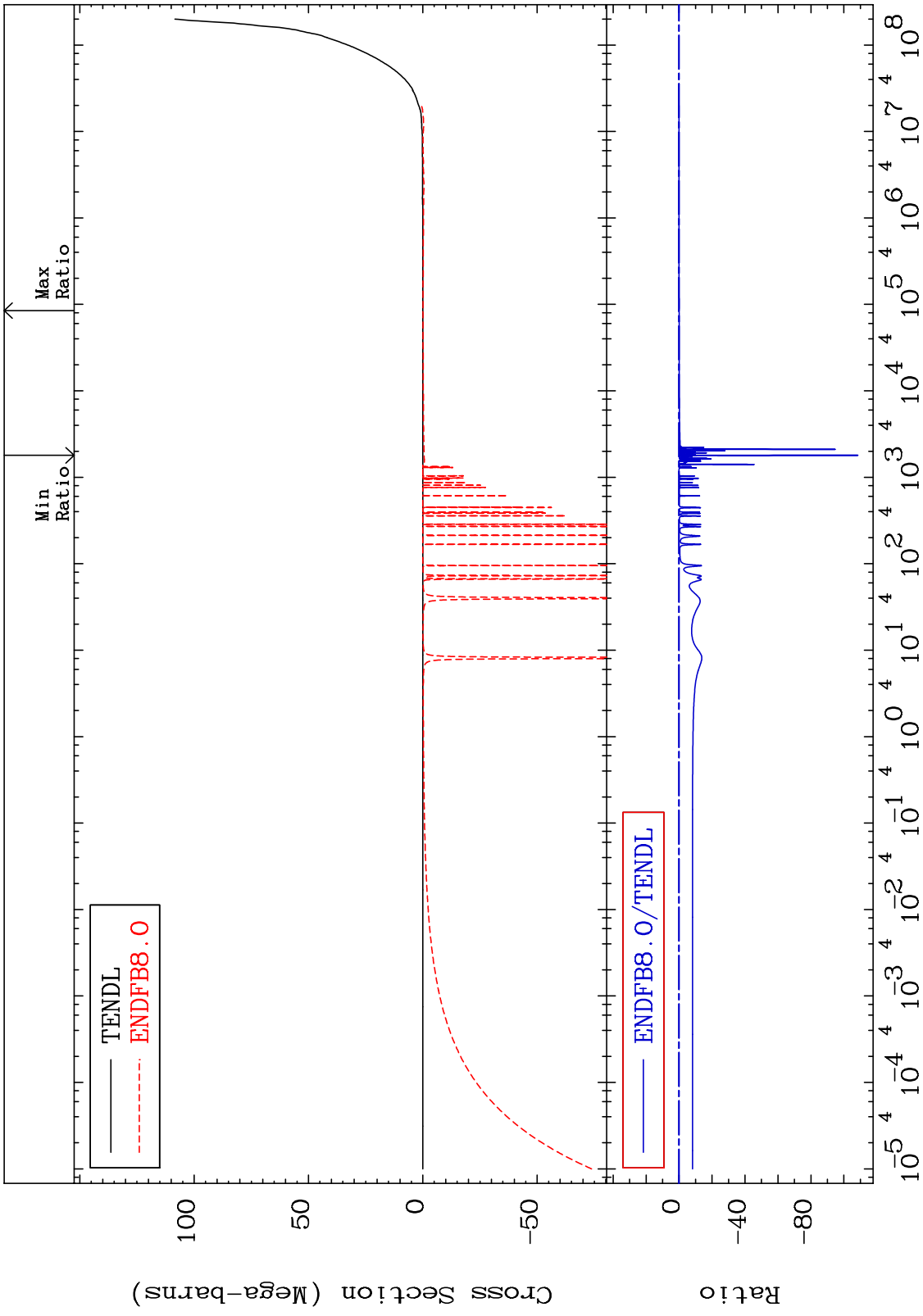


30

Incident Energy (eV)

70-Yb-170

MAT 7031 Kerma total (eV-barns) 70-Yb-170
 Cross Section -9999. To 1392. %

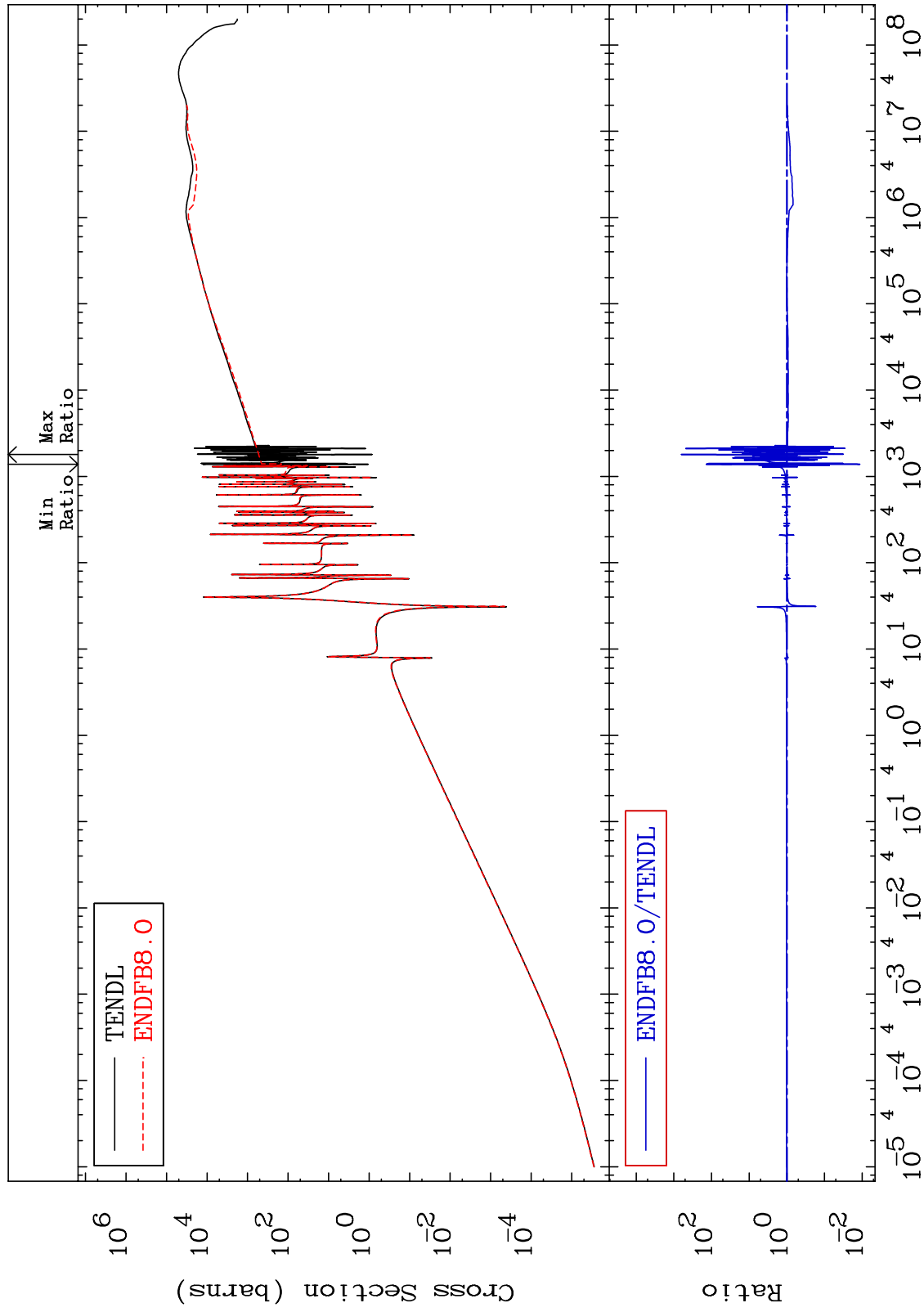


31 Incident Energy (eV) 70-Yb-170

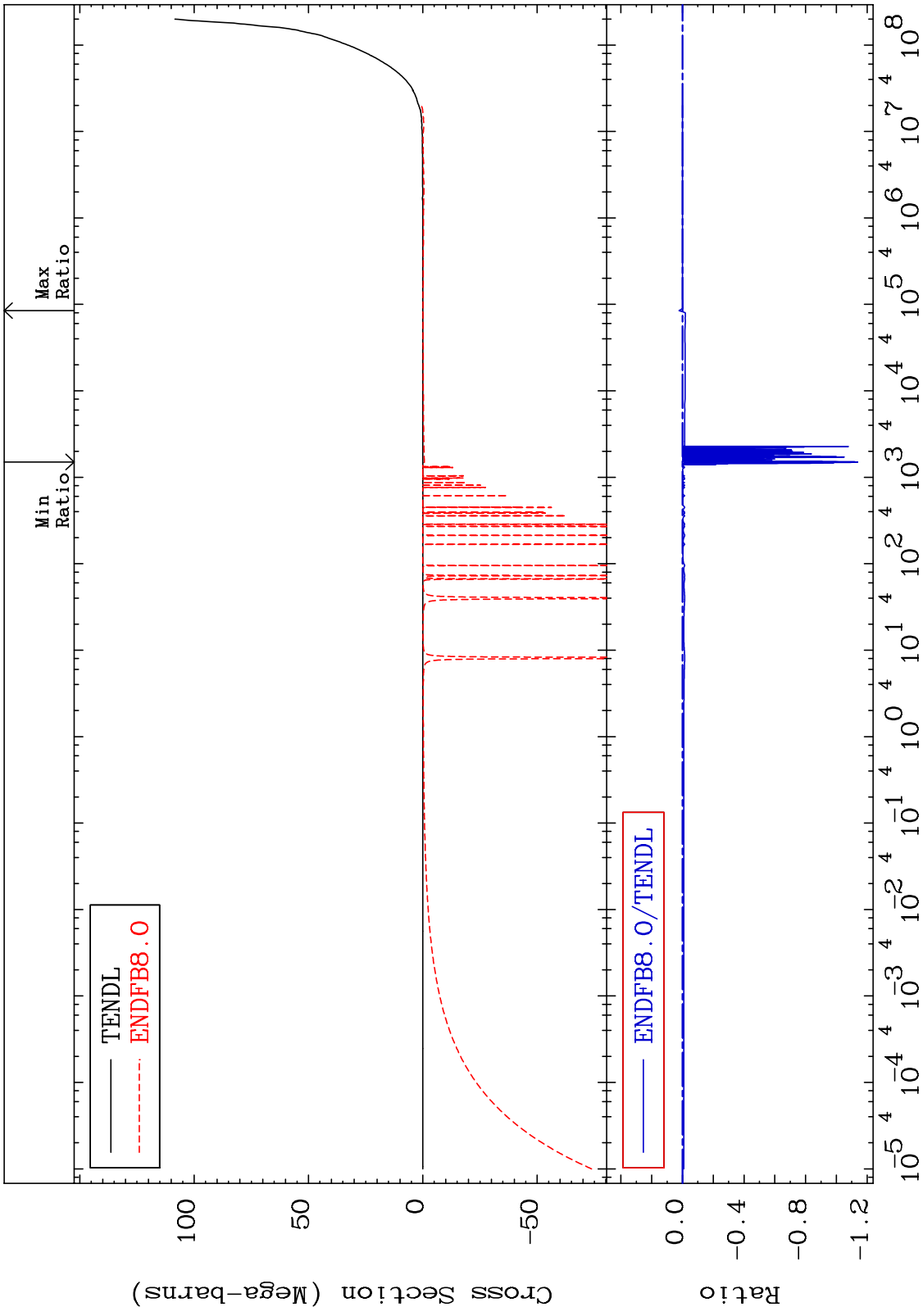
MAT 7031

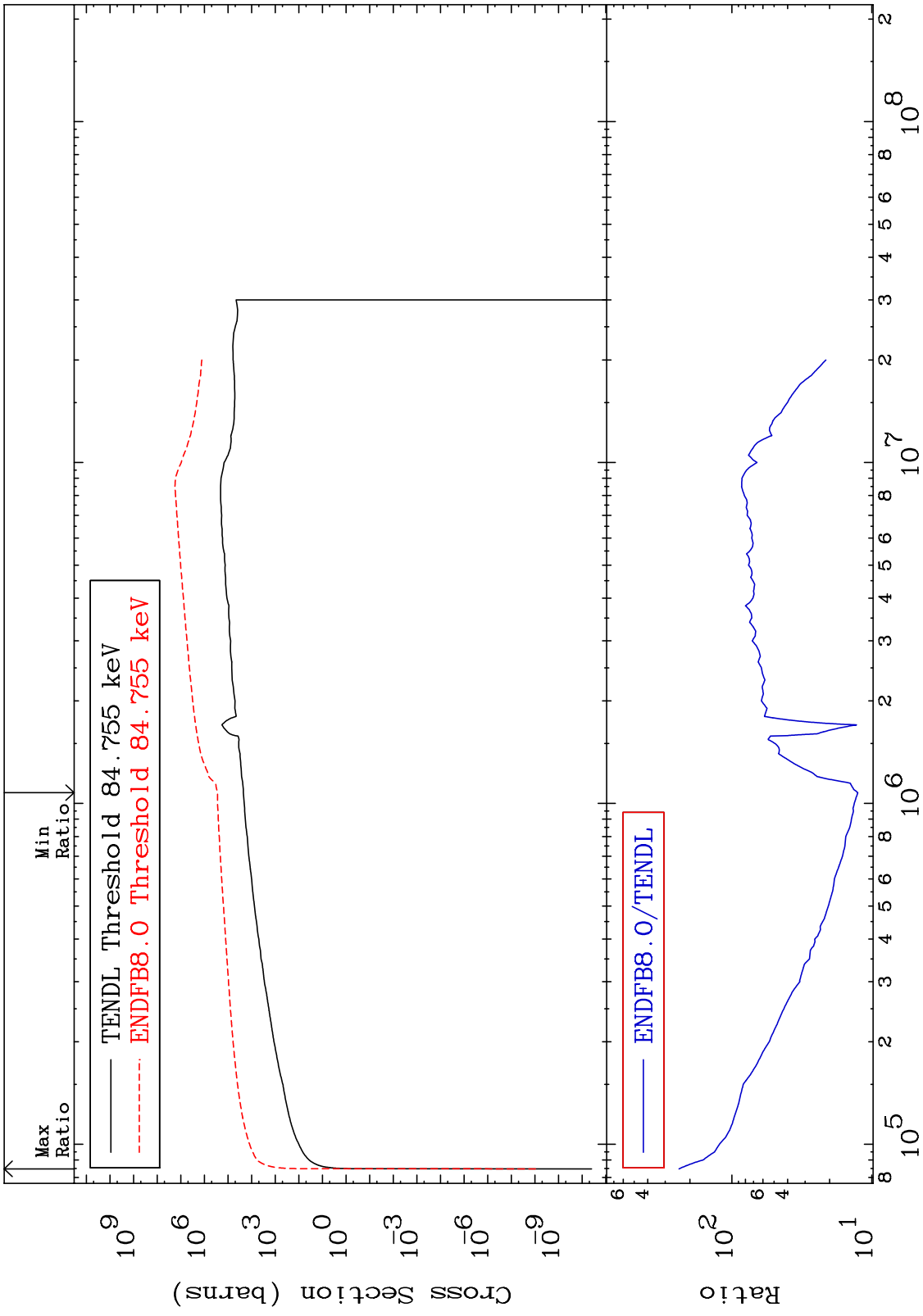
Kerma elastic
Cross Section

70-Yb-170
-98.84 To 9999. %



MAT 7031 Kerma non-elastic (all but mt2) Cross Section 70-Yb-170
 -9999. To 9999. %

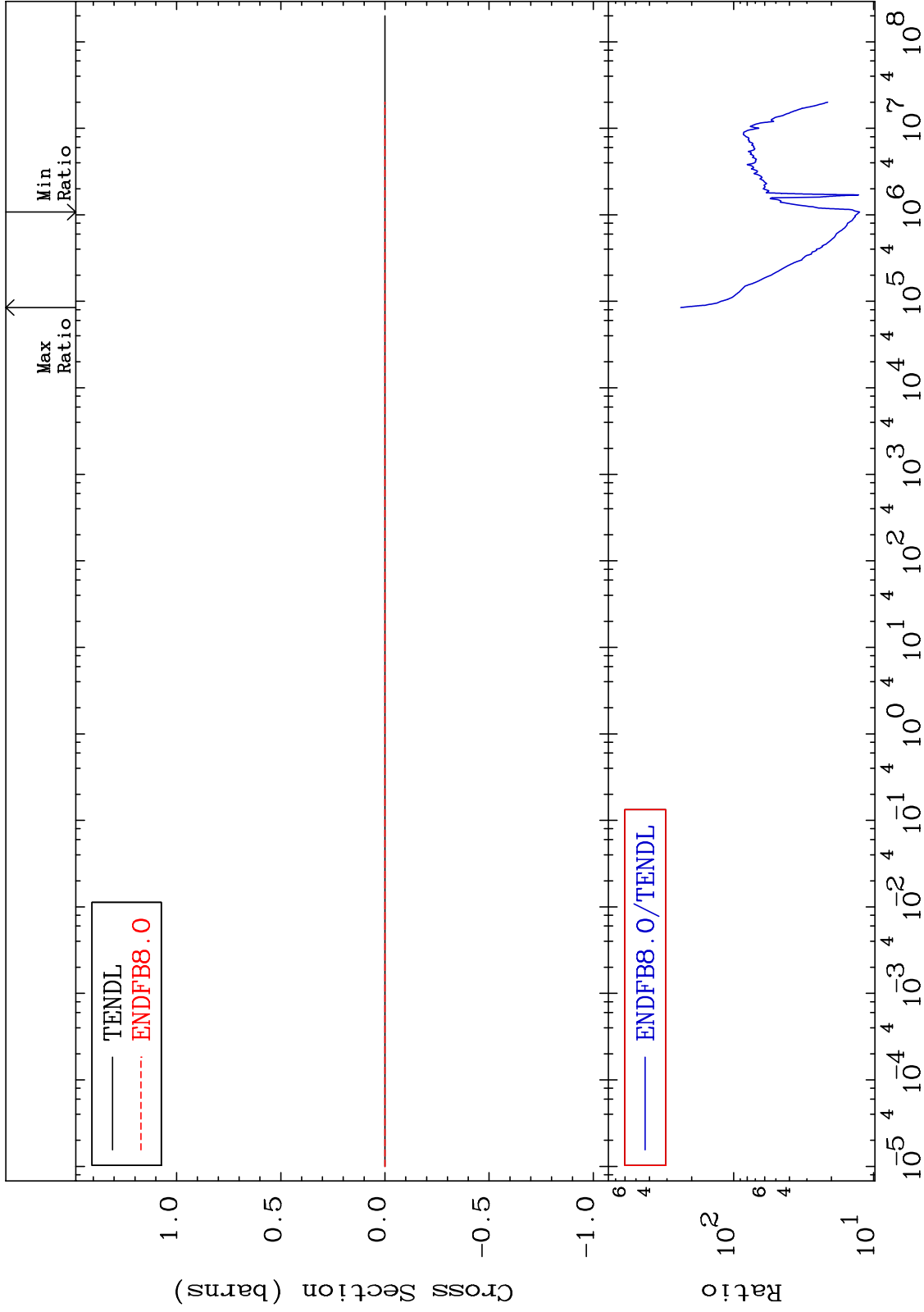




MAT 7031

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

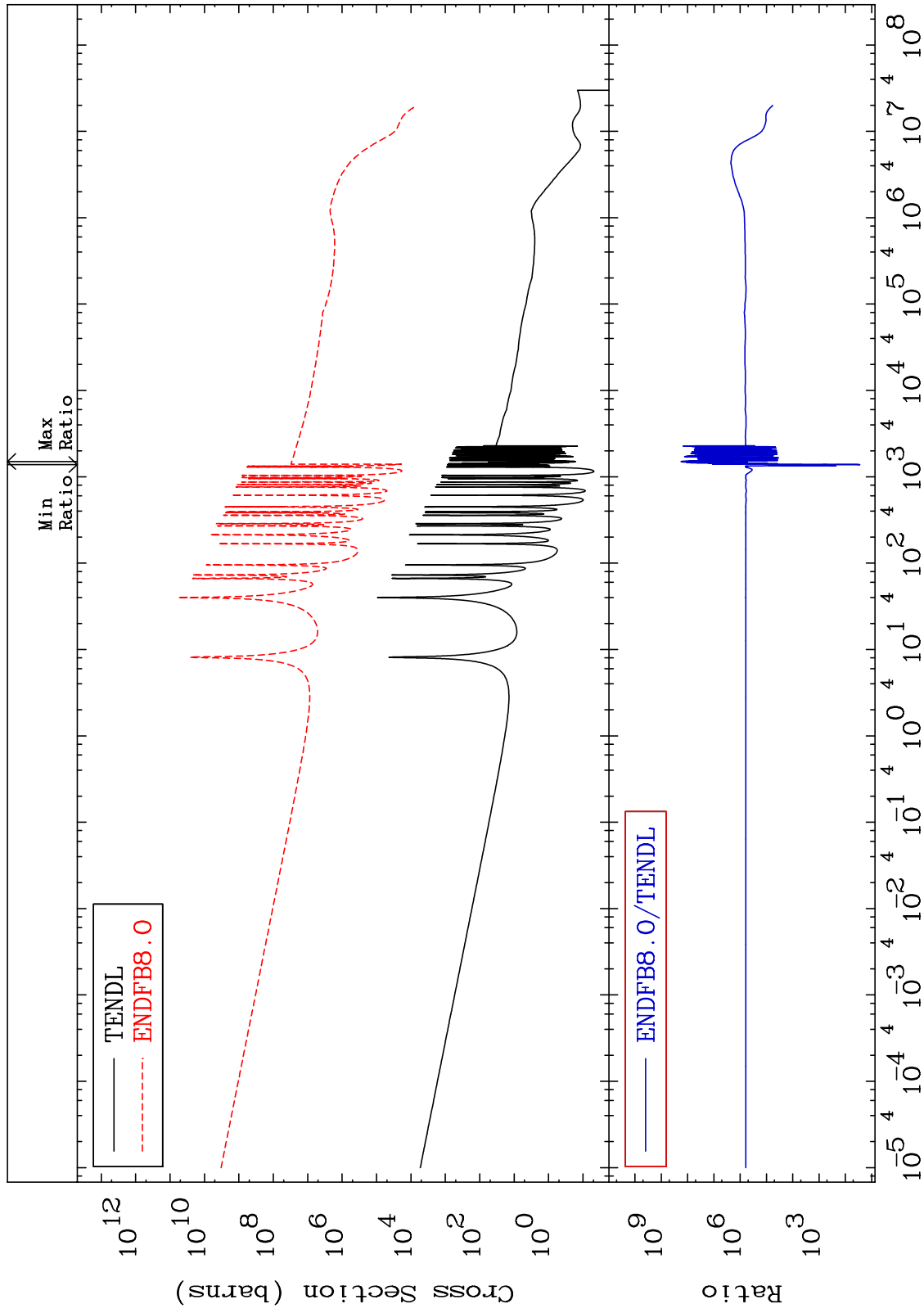
70-Yb-170
1157. To 9999. %



MAT 7031

Kerma capture (mt102)
Cross Section

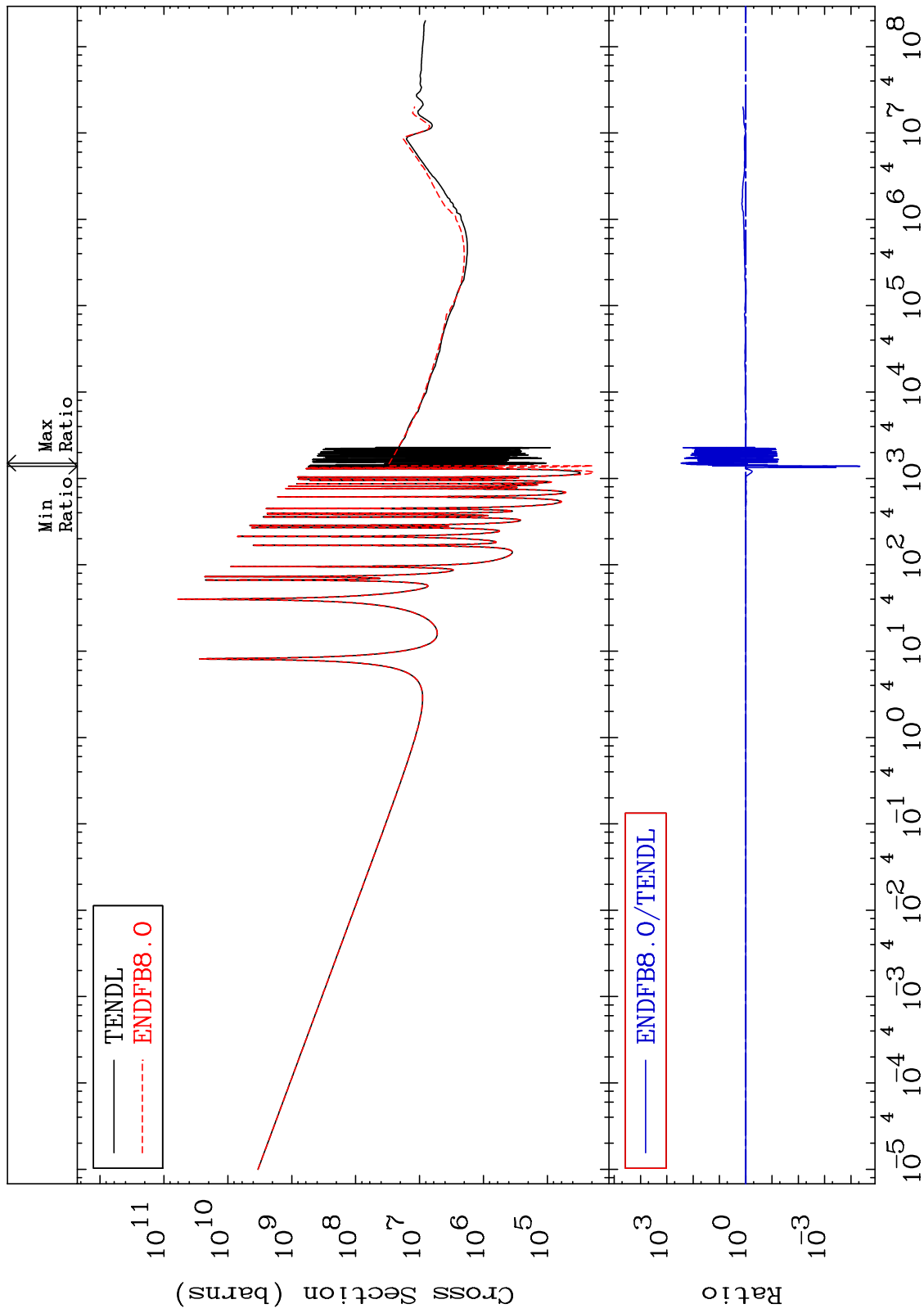
70-Yb-170
2733. To 9999. %



MAT 7031

Total photon (eV-barns)
Cross Section

70-Yb-170
-100.0 To 9999. %

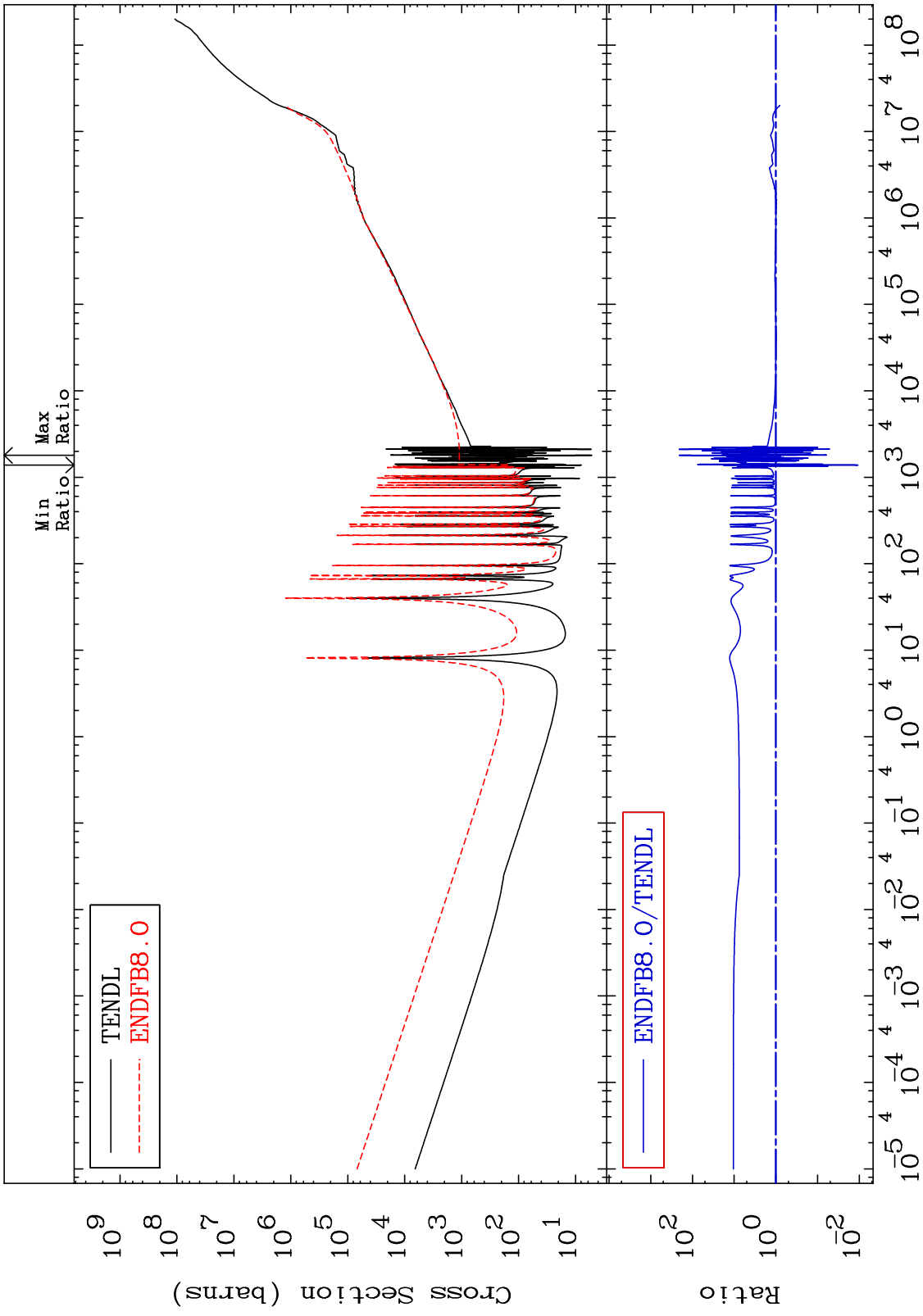


37

Incident Energy (eV)

70-Yb-170

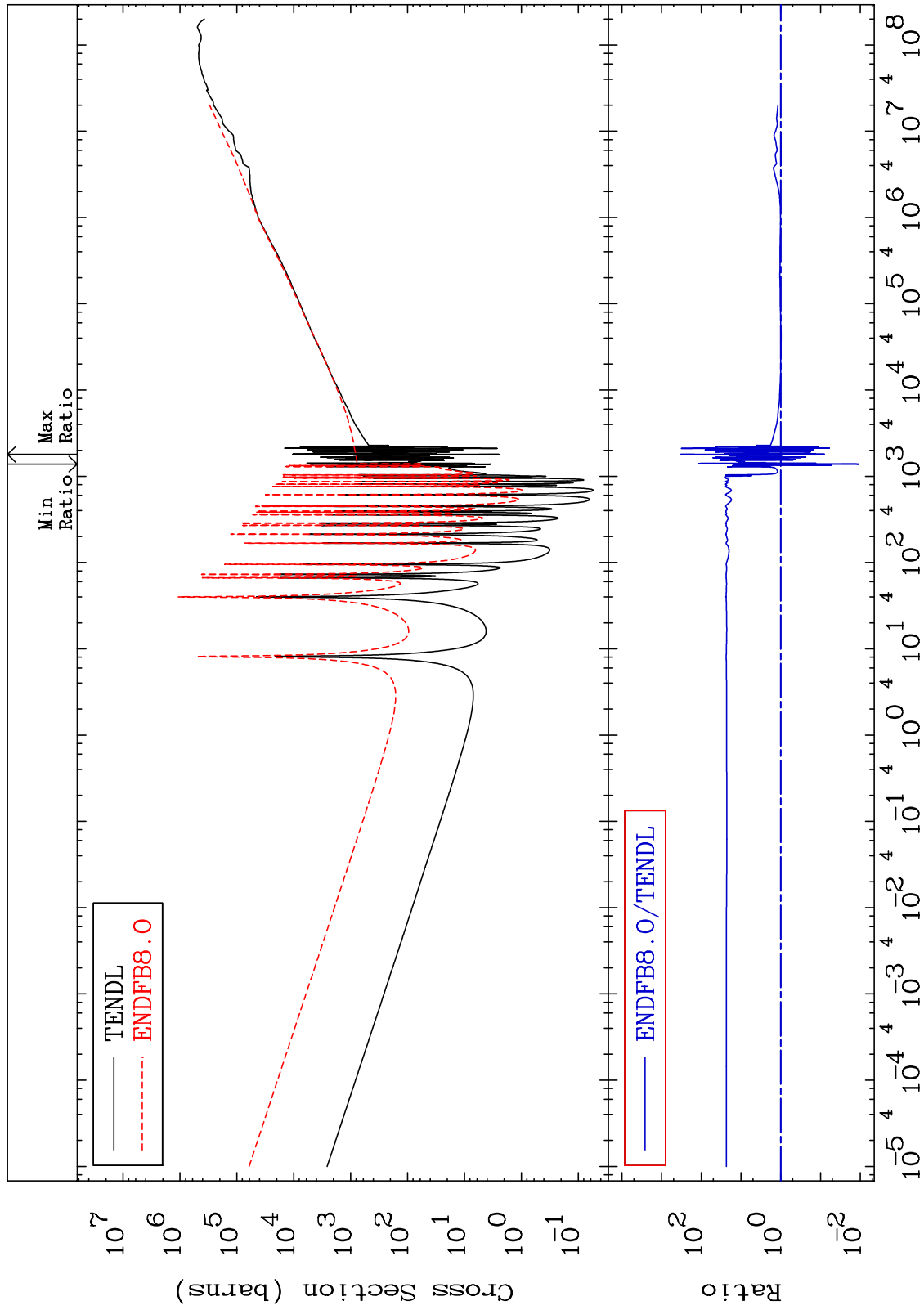
MAT 7031 Total kinematic kerma (high limit) 70-Yb-170
 Cross Section -98.91 To 9999. %



MAT 7031

Dpa total (eV-barns)
Cross Section

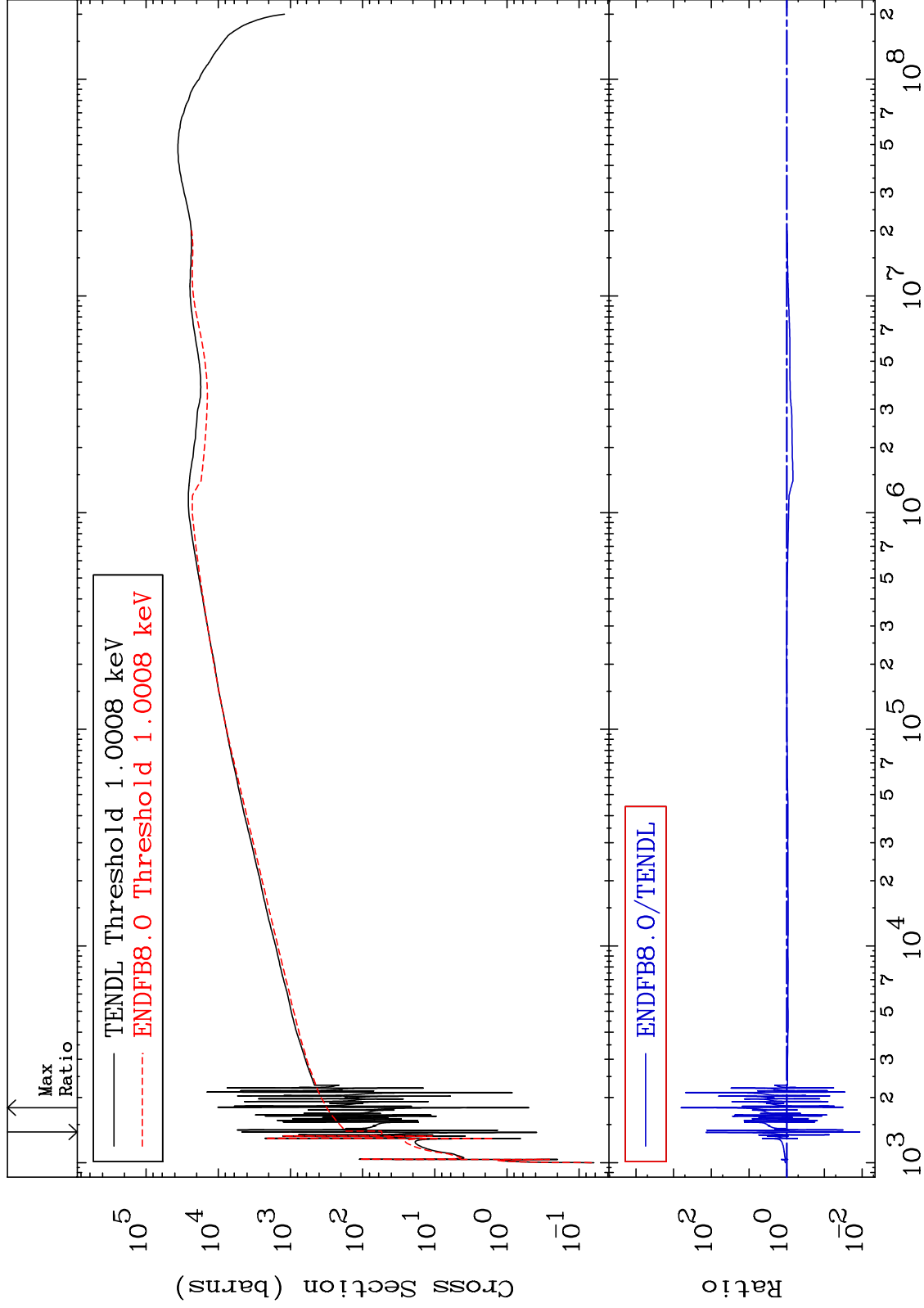
70-Yb-170
-98.93 To 9999. %



MAT 7031

Dpa elastic (mt2)
Cross Section

70-Yb-170
-98.84 To 9999. %

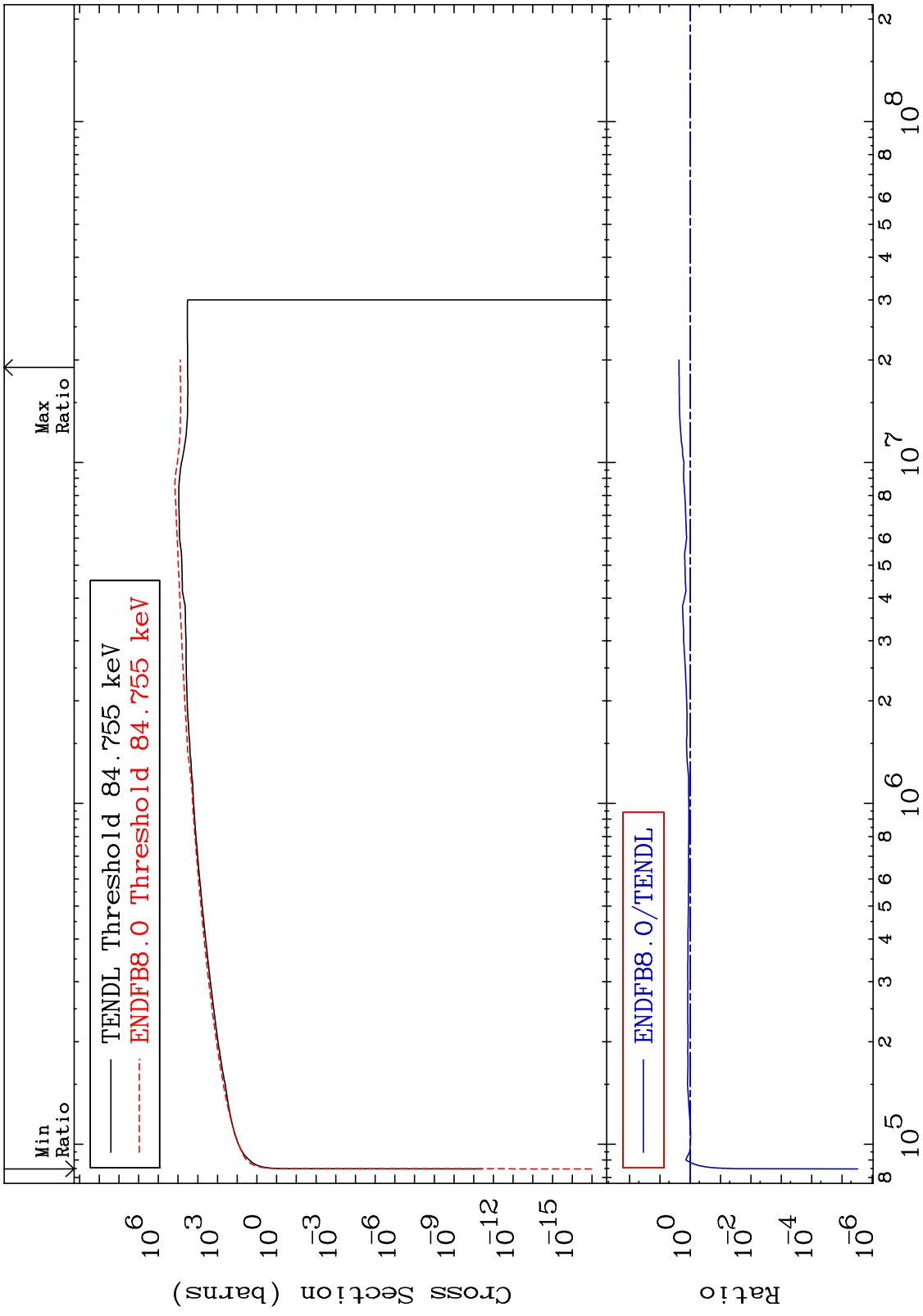


40

Incident Energy (eV)

70-Yb-170

MAT 7031 Dpa inelastic (mt51-91) 70-Yb-170
 Cross Section -100.0 To 133.8 %



MAT 7031

Dpa disappearance (mt102 -120)
Cross Section

70-Yb-170
-99.89 To 9999. %

