

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

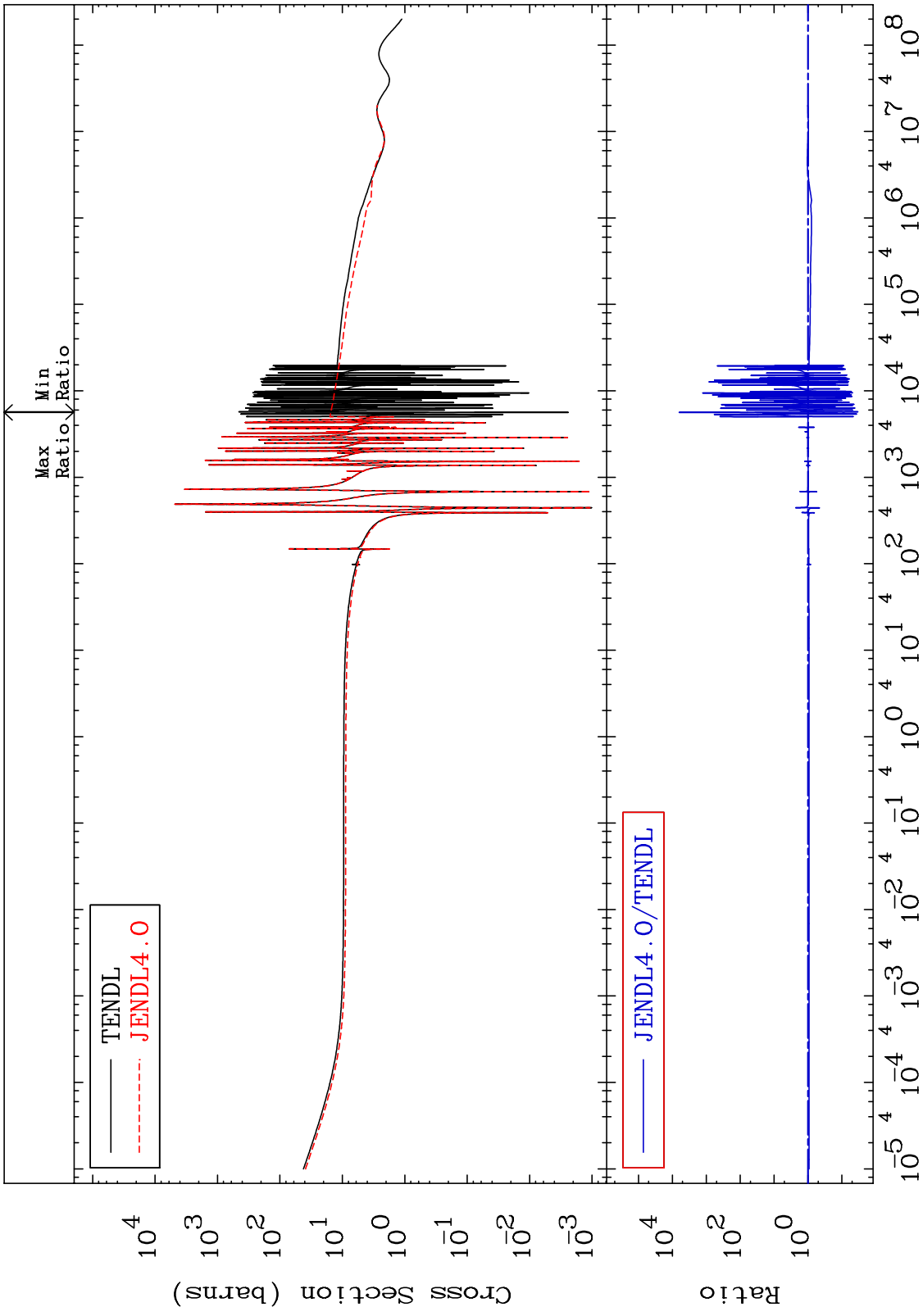
U.S.A.

Tele: 925-443-1911

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

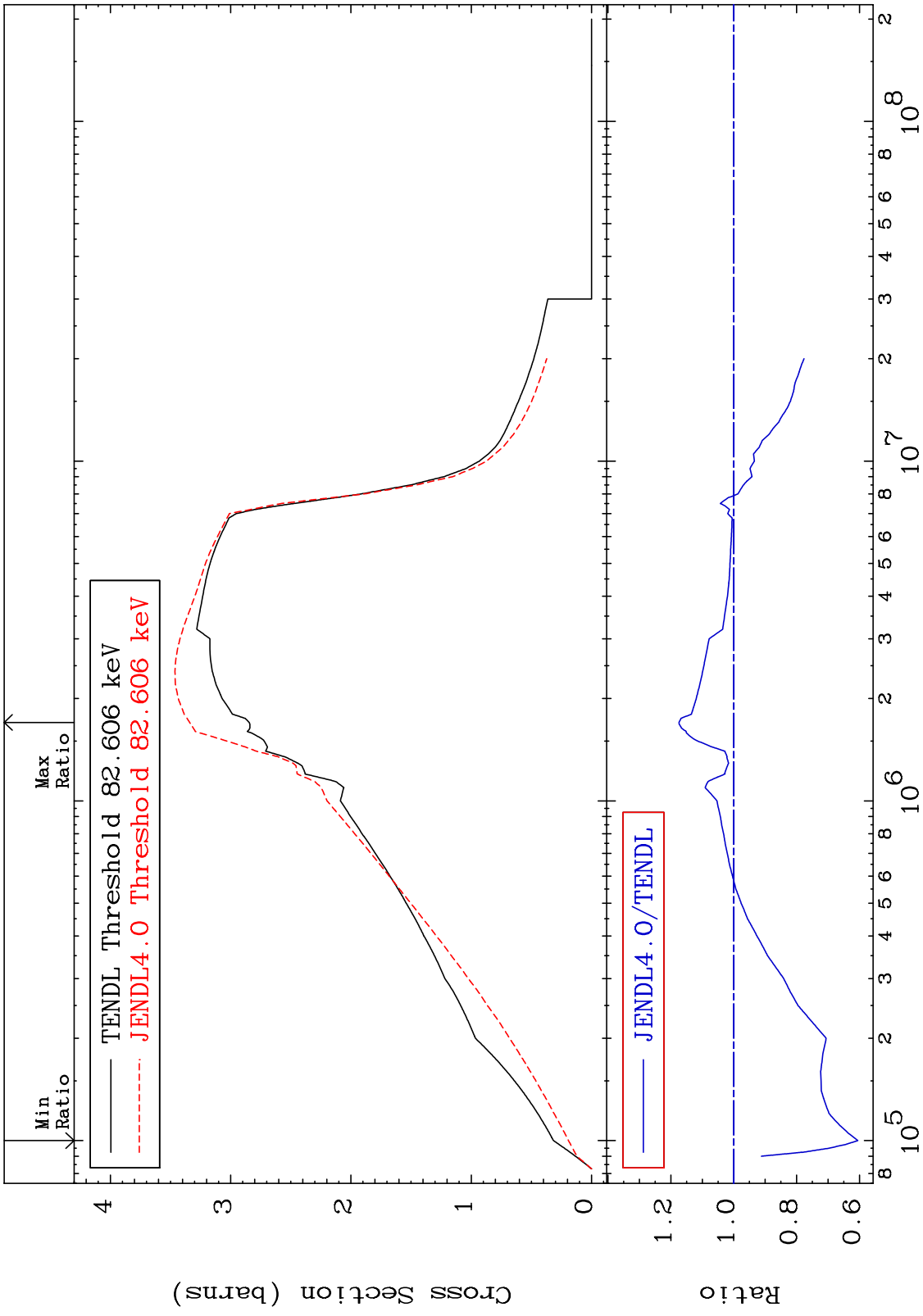
Press Mouse Button to Start

MAT 7049 Elastic Cross Section 70-Yb-176 -96.62 To 9999. %



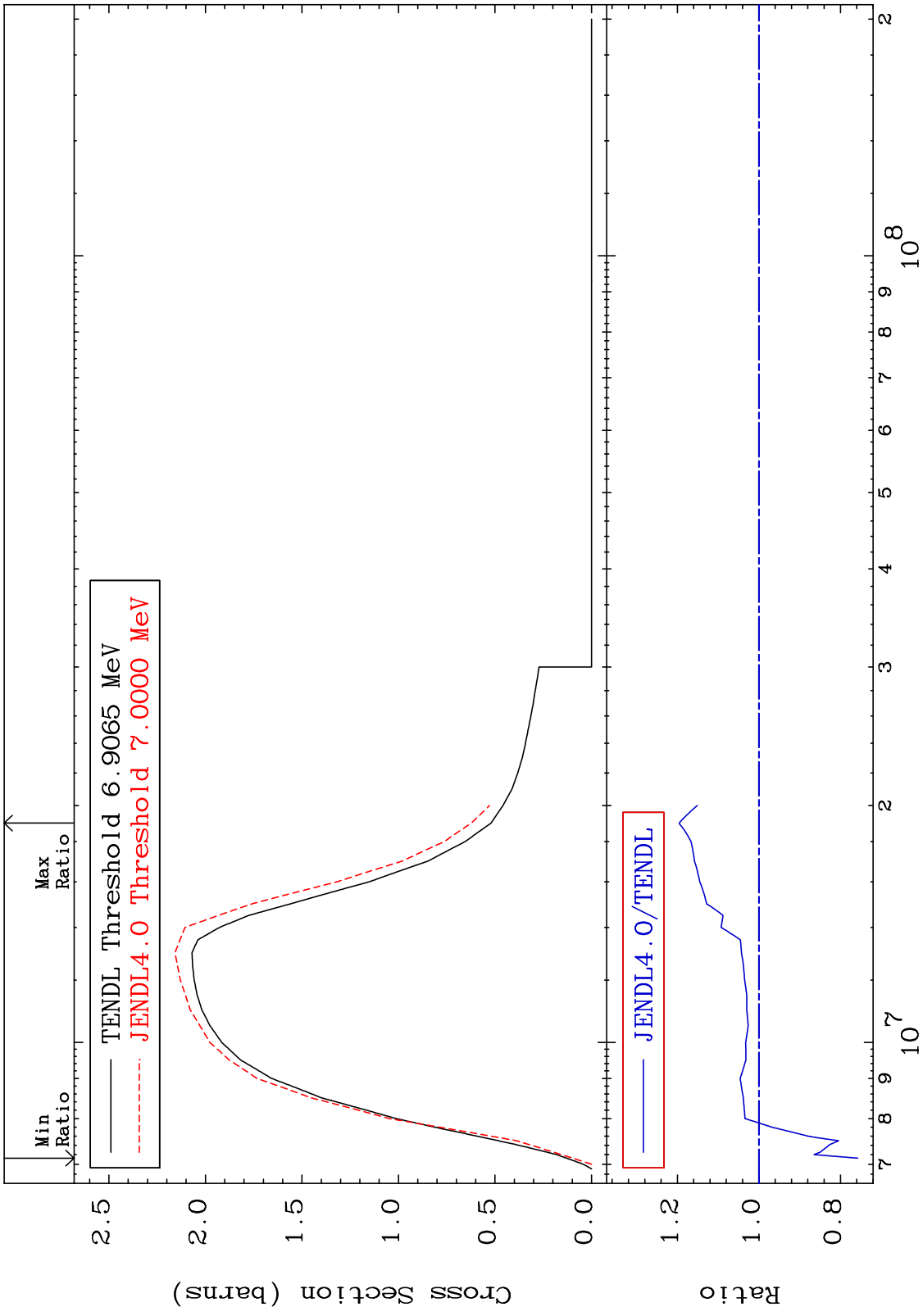
2 70-Yb-176

MAT 7049 Inelastic Cross Section 70-Yb-176 -39.48 To 17.39 %

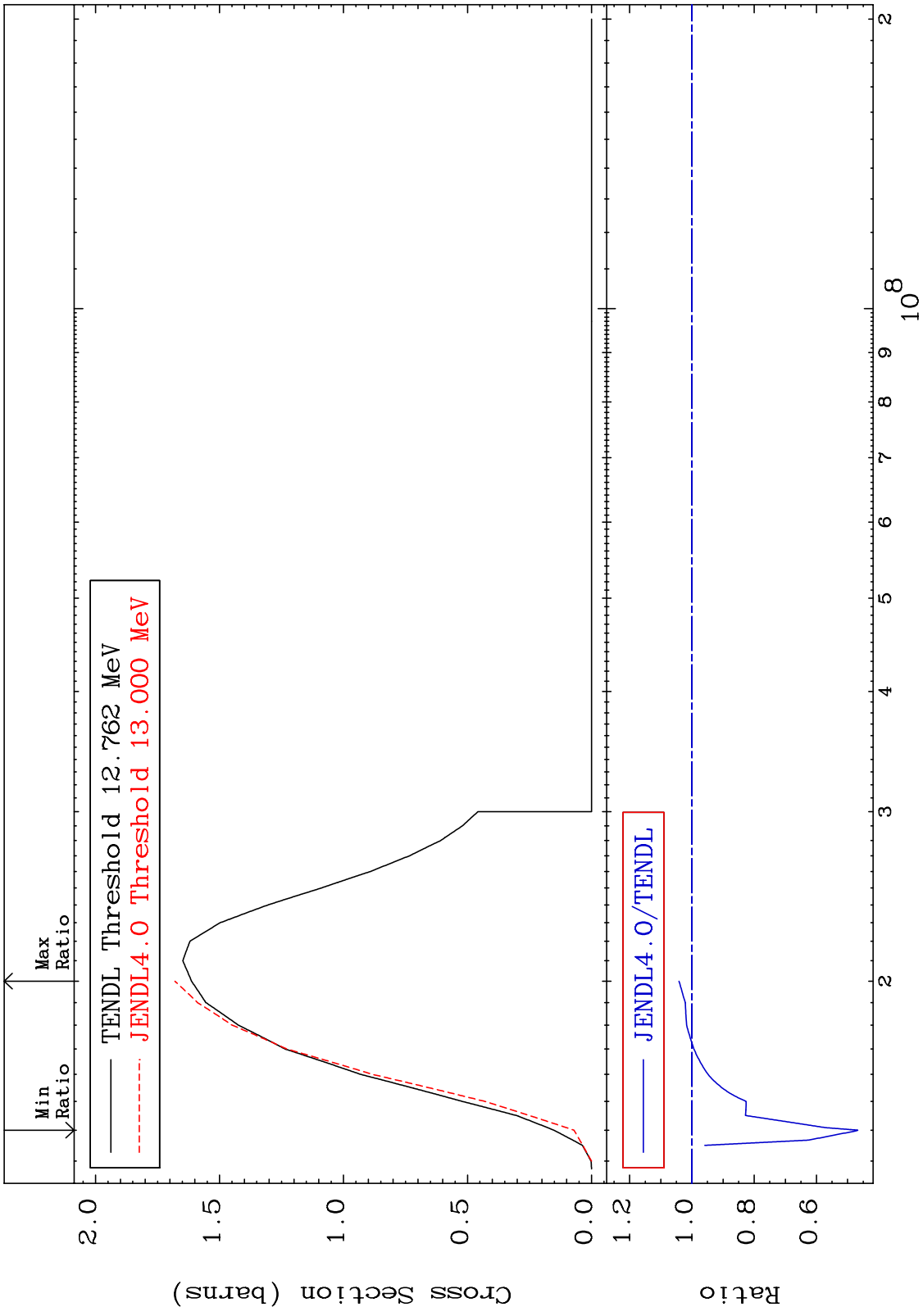


3 70-Yb-176

MAT 7049 $(n, 2n)$ Cross Section 70-Yb-176 -24.27 To 19.59 %



4 70-Yb-176



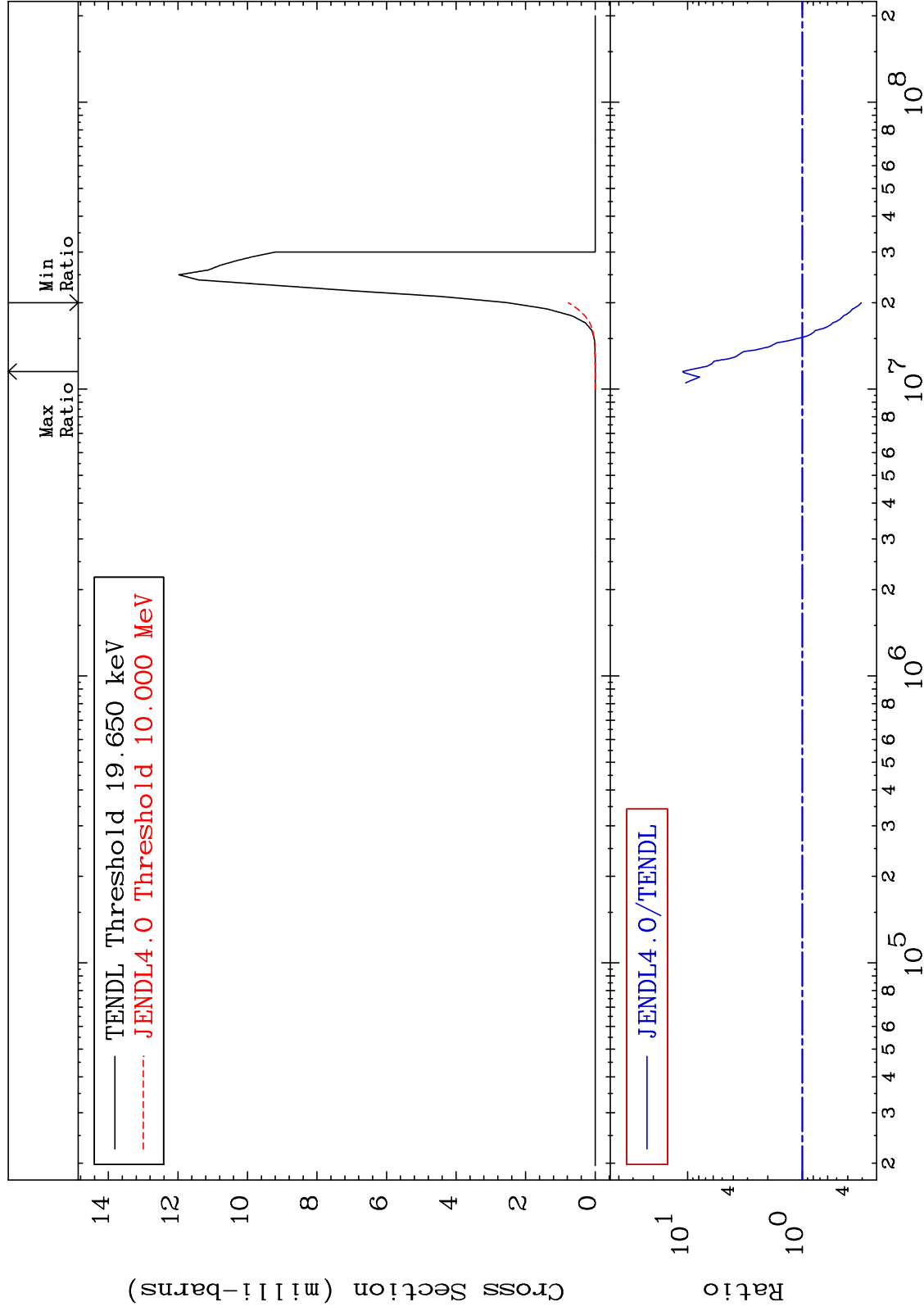
MAT 7049

(n, n') α

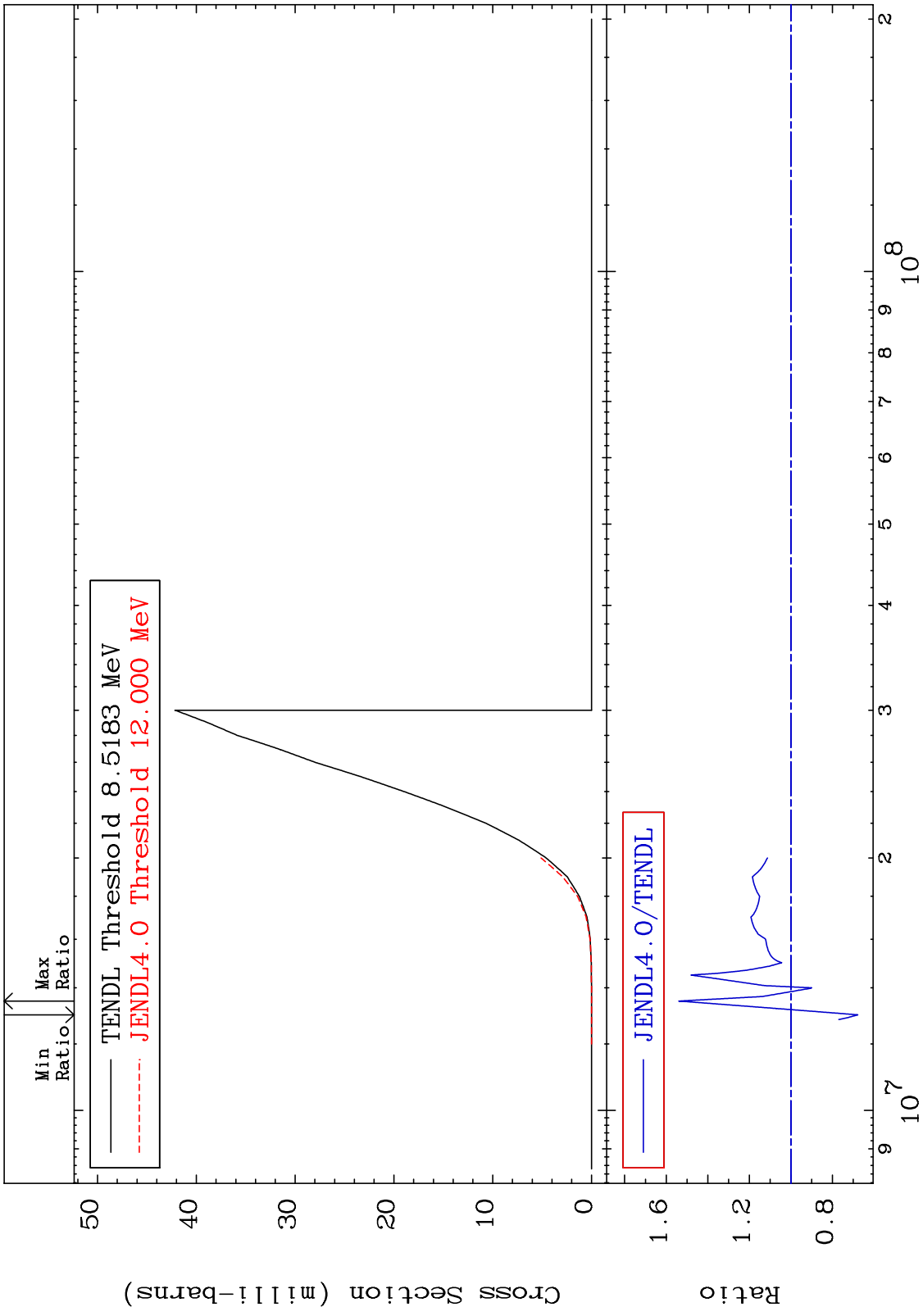
Cross Section

70-Yb-176

-69.53 To 1006. %

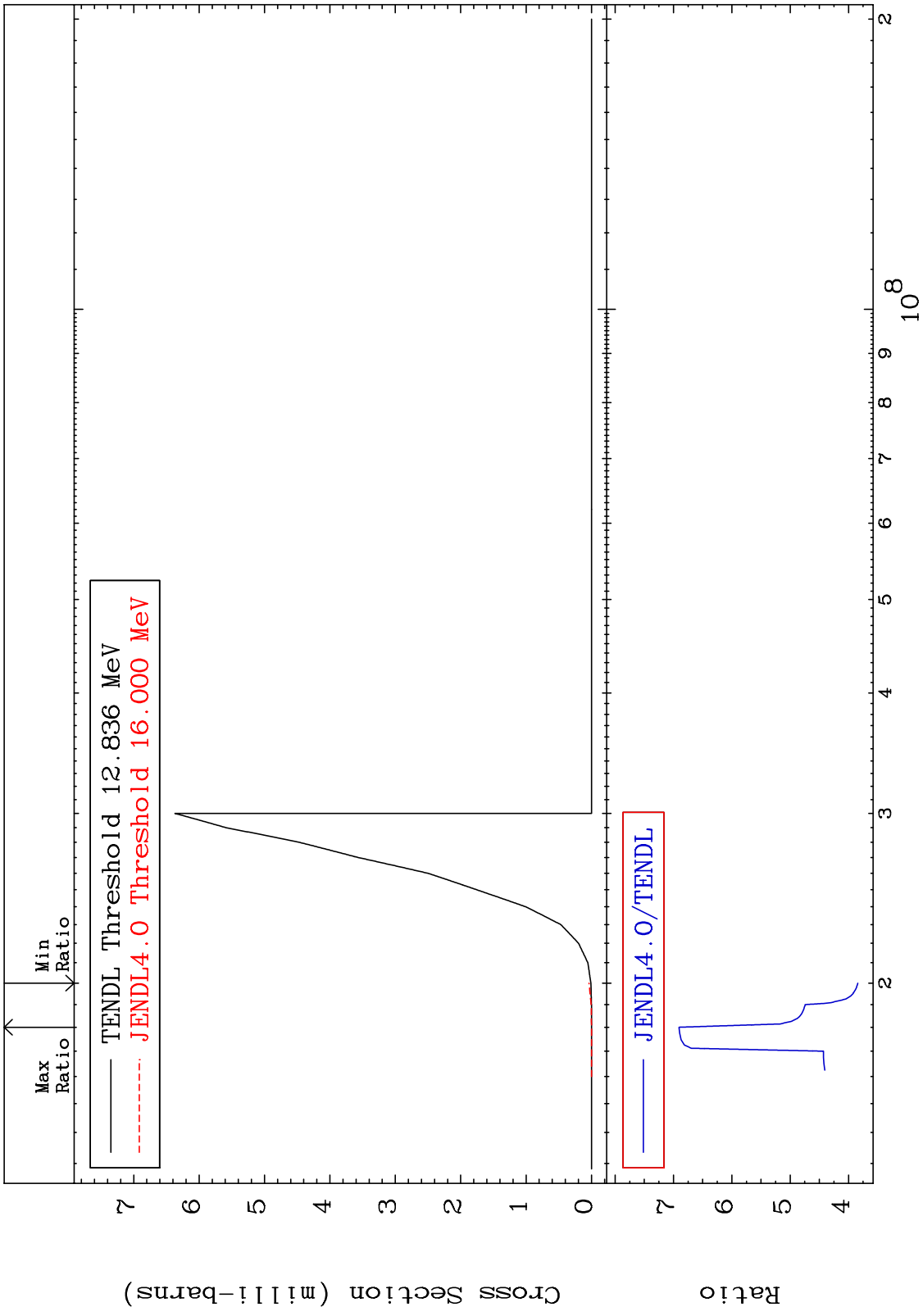


MAT 7049 (n,n') p 70-Yb-176
Cross Section -32.20 To 53.83 %

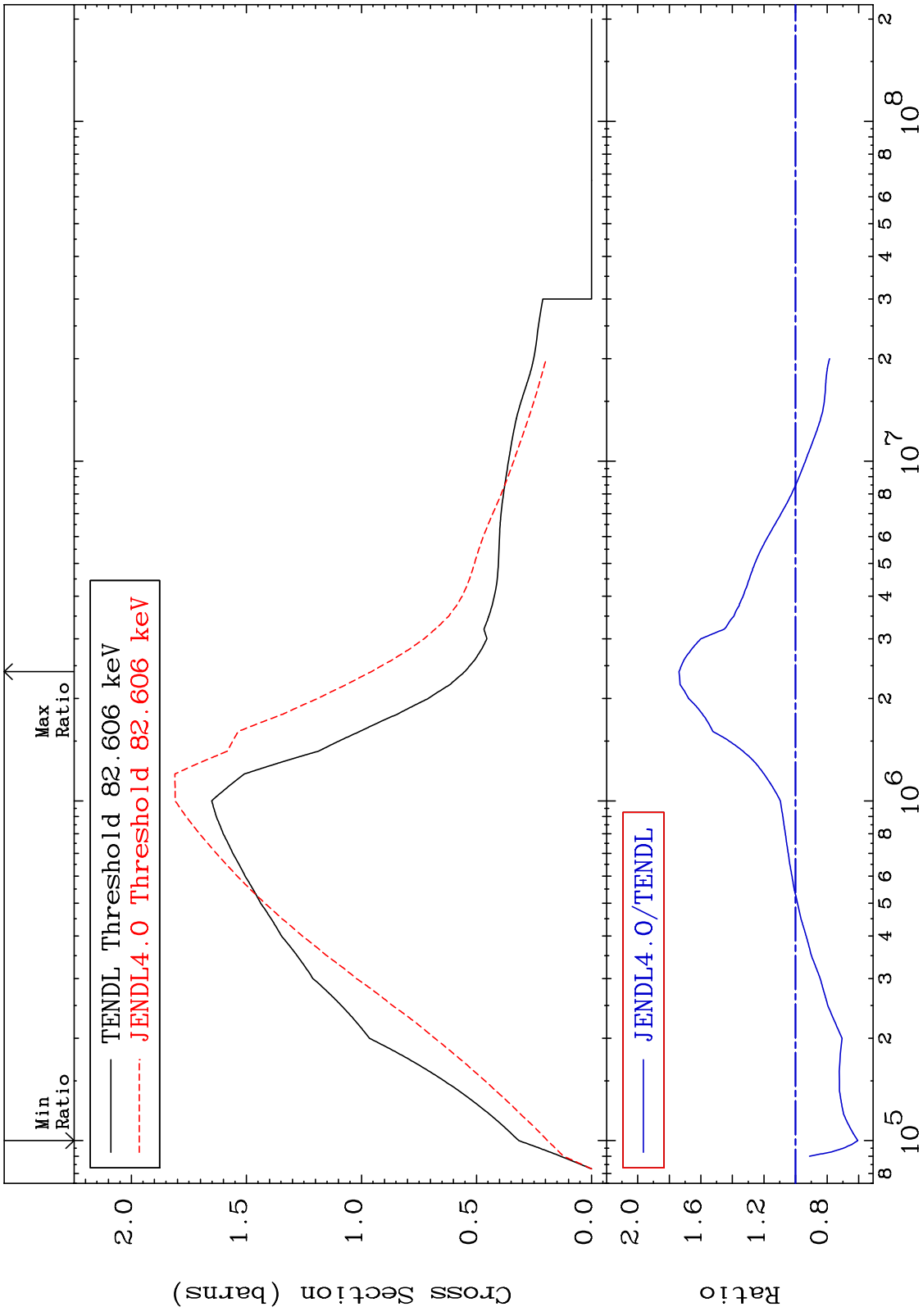


70-Yb-176

MAT 7049 (n, n') d $^{70}\text{Yb-176}$
 Cross Section 284.0 To 590.5 %

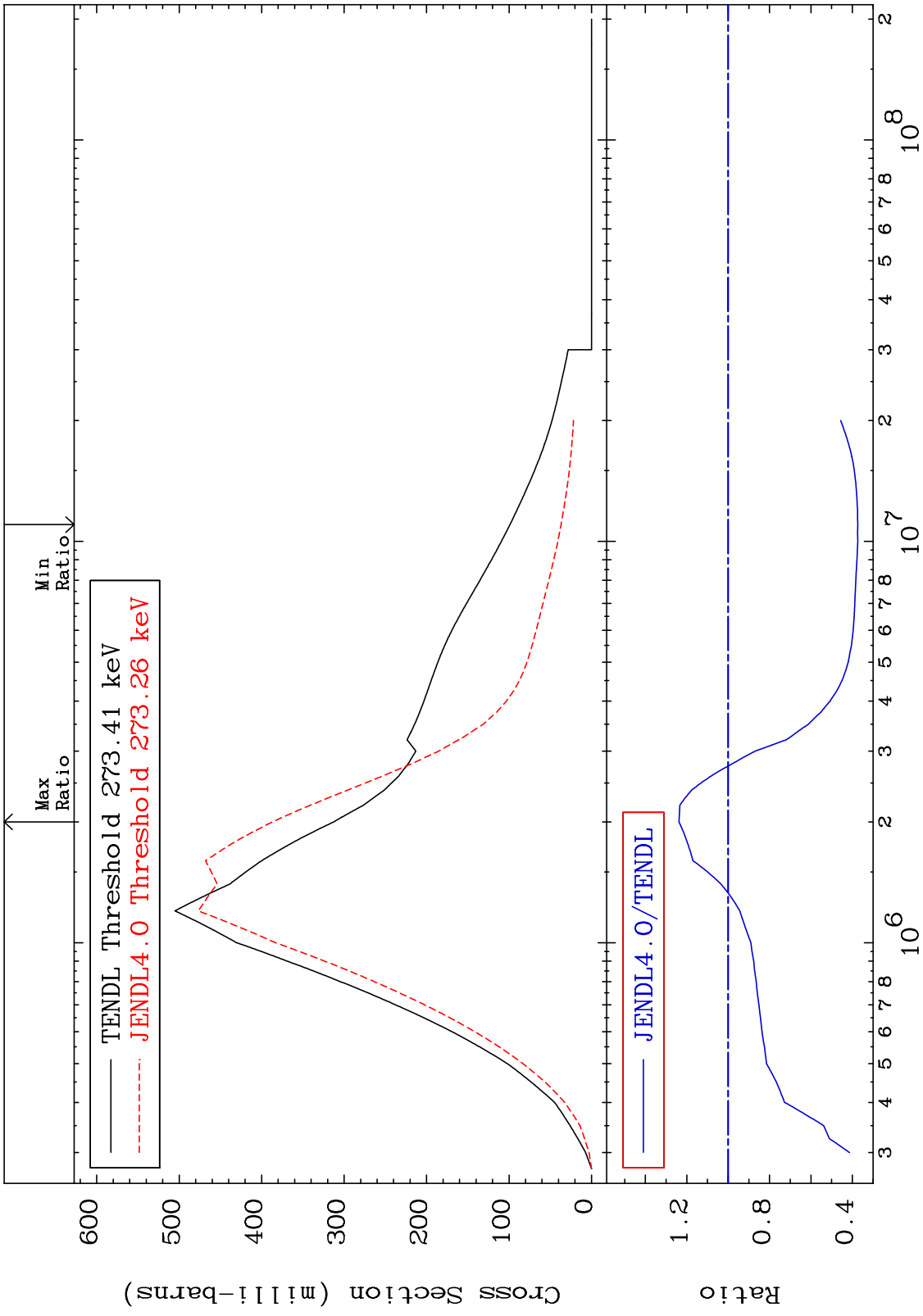


MAT 7049 MT= 51 (n,n') Level 70-Yb-176
 Cross Section -39.48 To 73.81 %



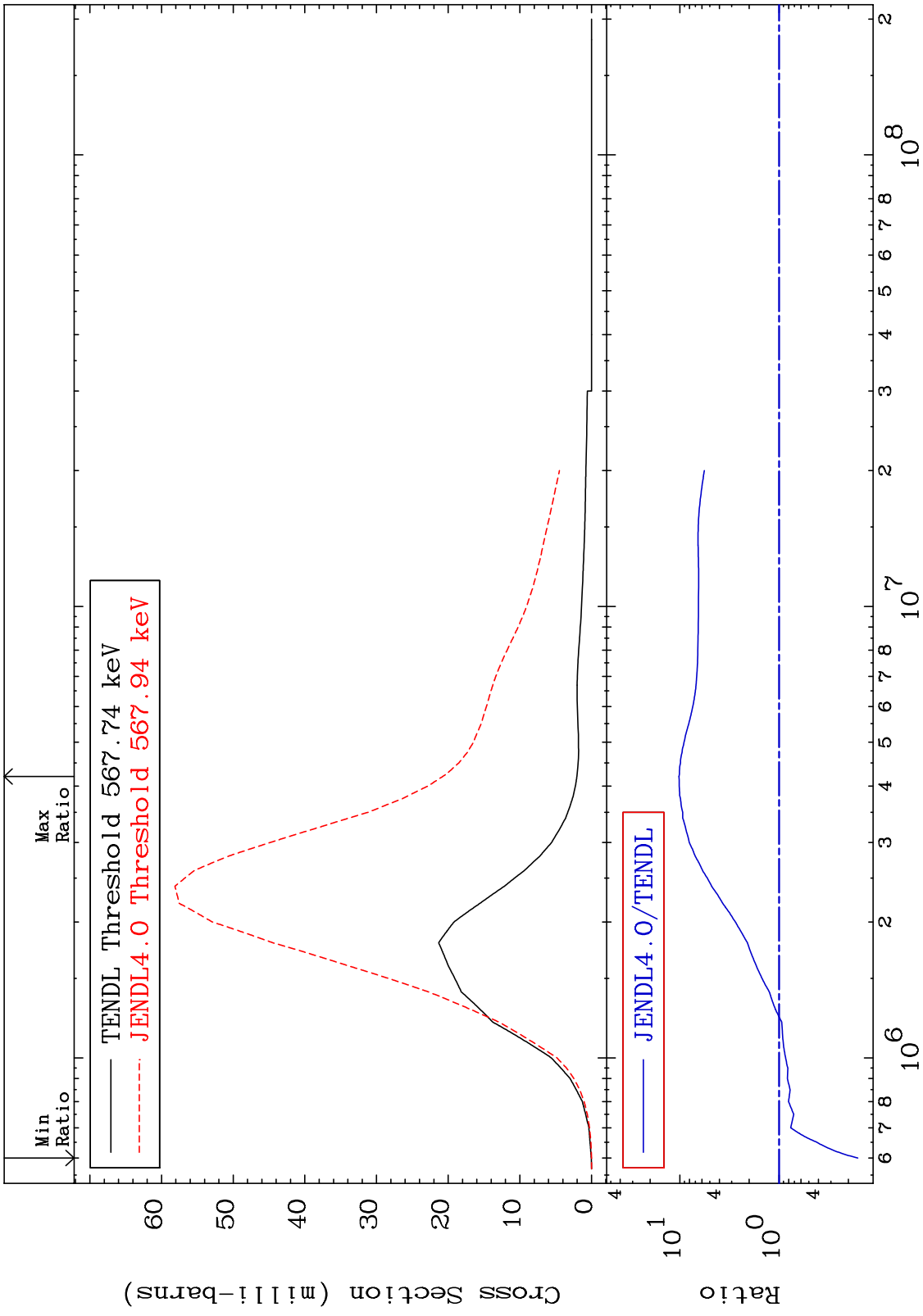
9 Incident Energy (eV) 70-Yb-176

MAT 7049 MT= 52 (n,n') Level 70-Yb-176
 Cross Section -62.68 To 23.74 %



10 Incident Energy (eV) 70-Yb-176

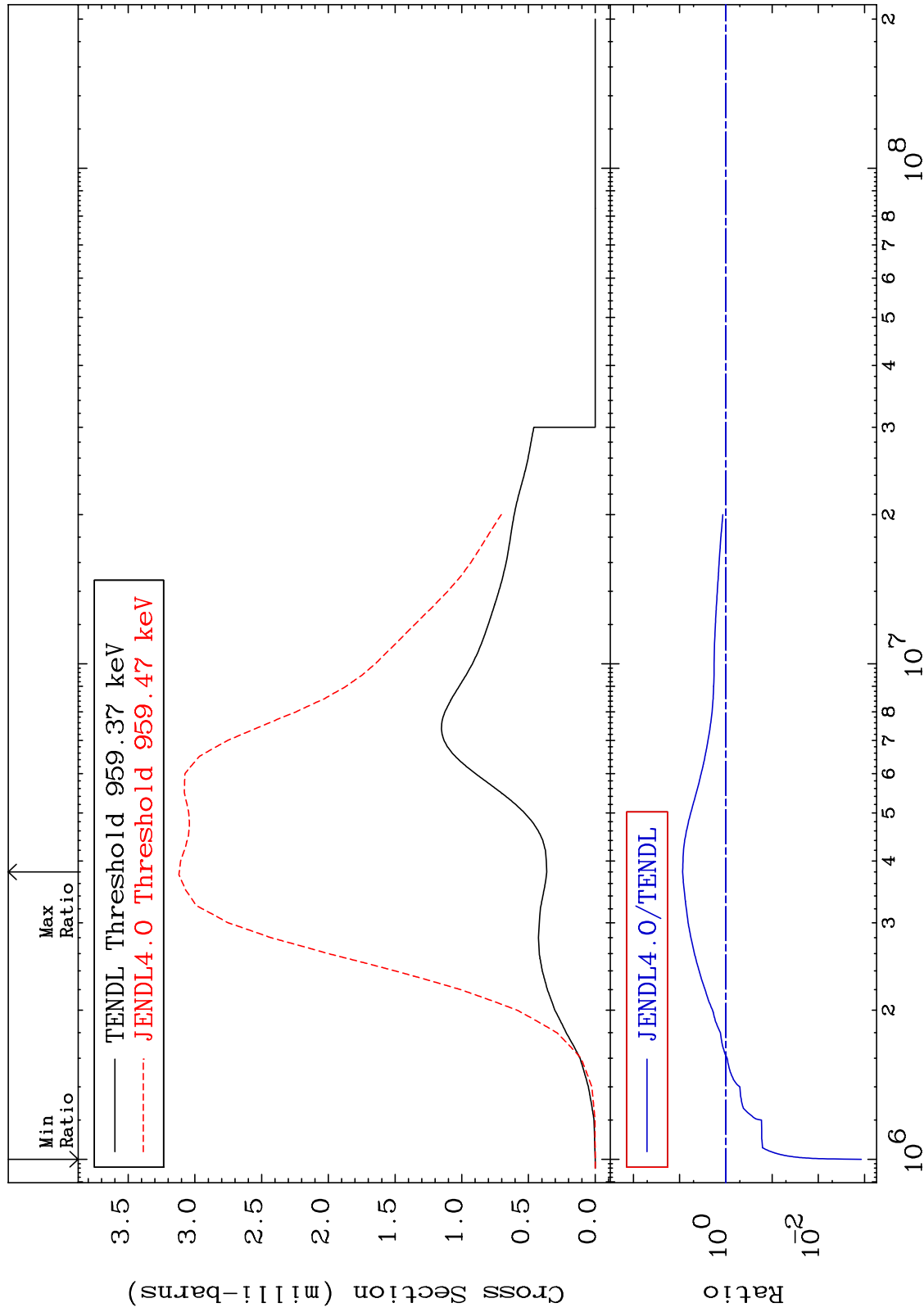
MAT 7049 MT= 53 (n,n') Level Cross Section 70-Yb-176
 -83.98 To 920.9 %



MAT 7049

MT= 54 (n,n') Level
Cross Section

70-Yb-176
-99.88 To 759.2 %

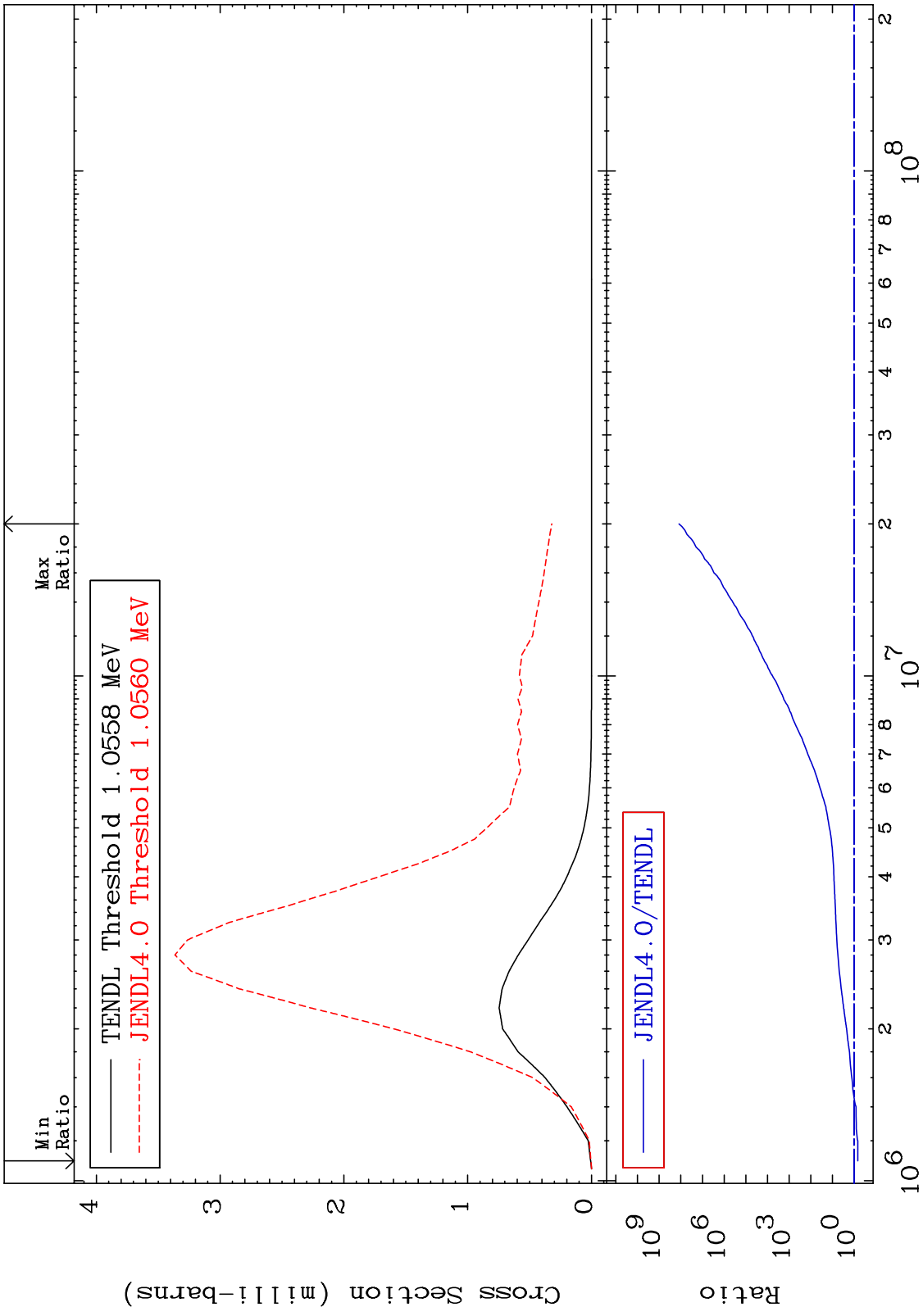


12

Incident Energy (eV)

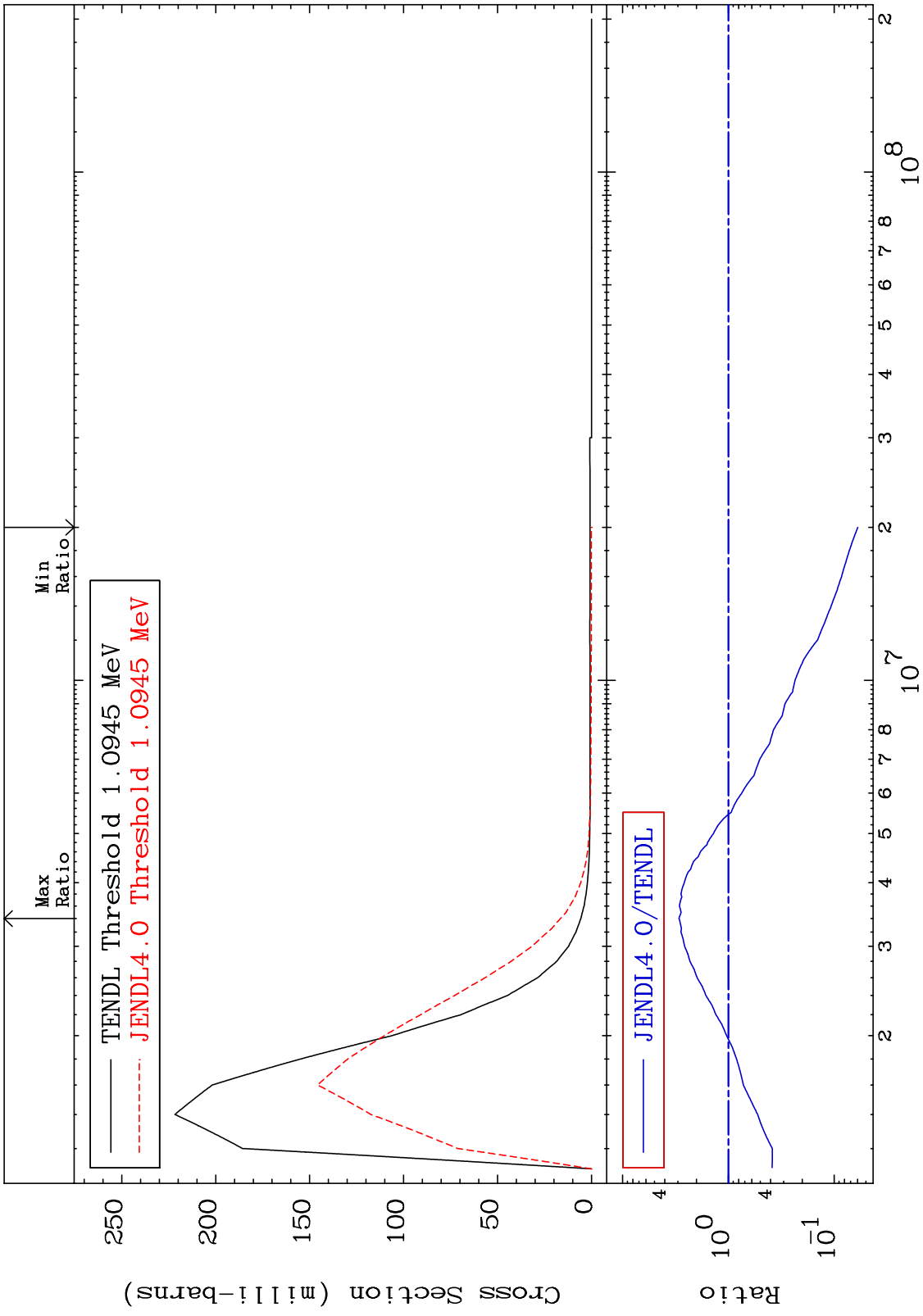
70-Yb-176

MAT 7049 MT= 55 (n,n') Level Cross Section 70-Yb-176
-32.38 To 9999. %

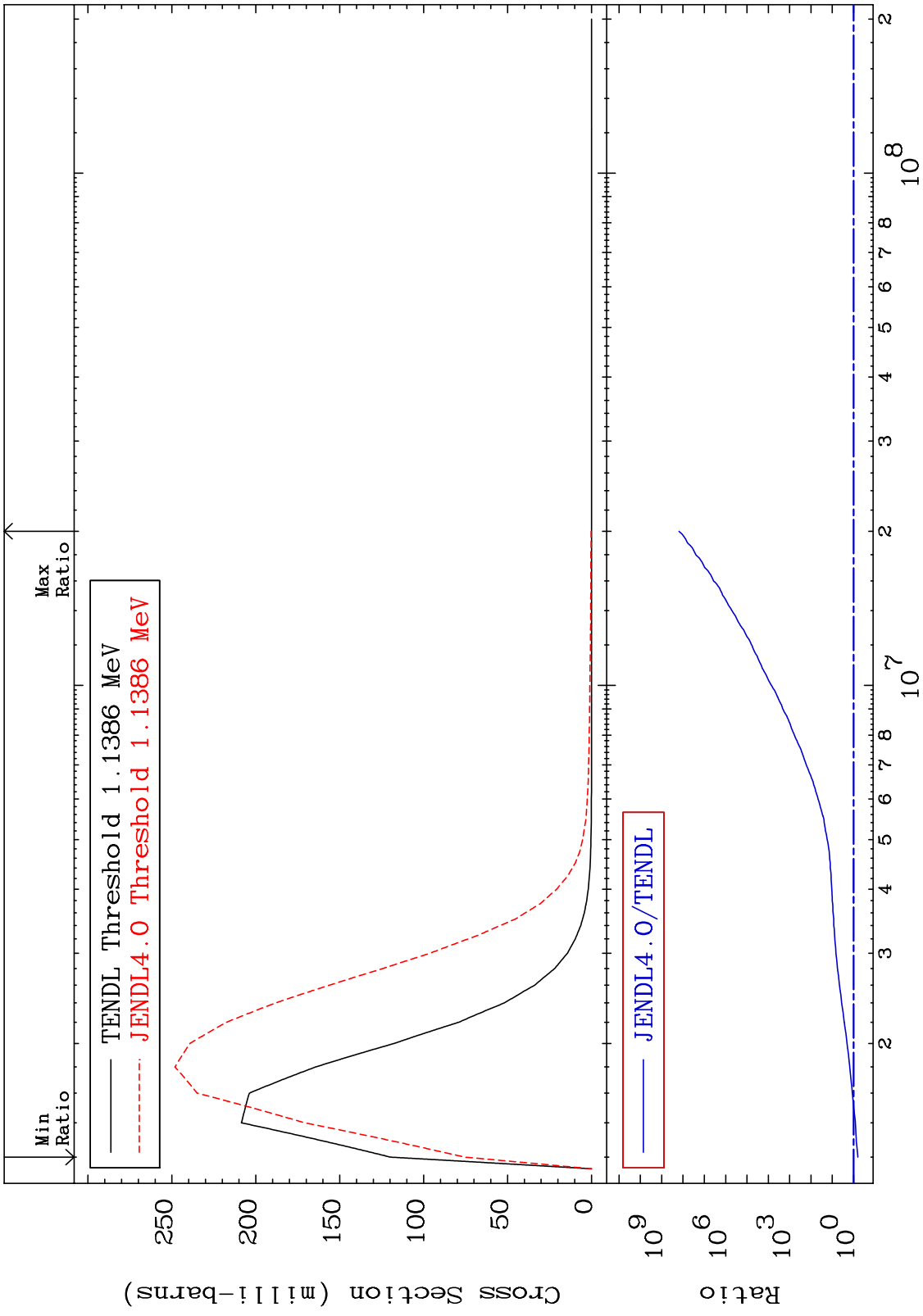


13 70-Yb-176

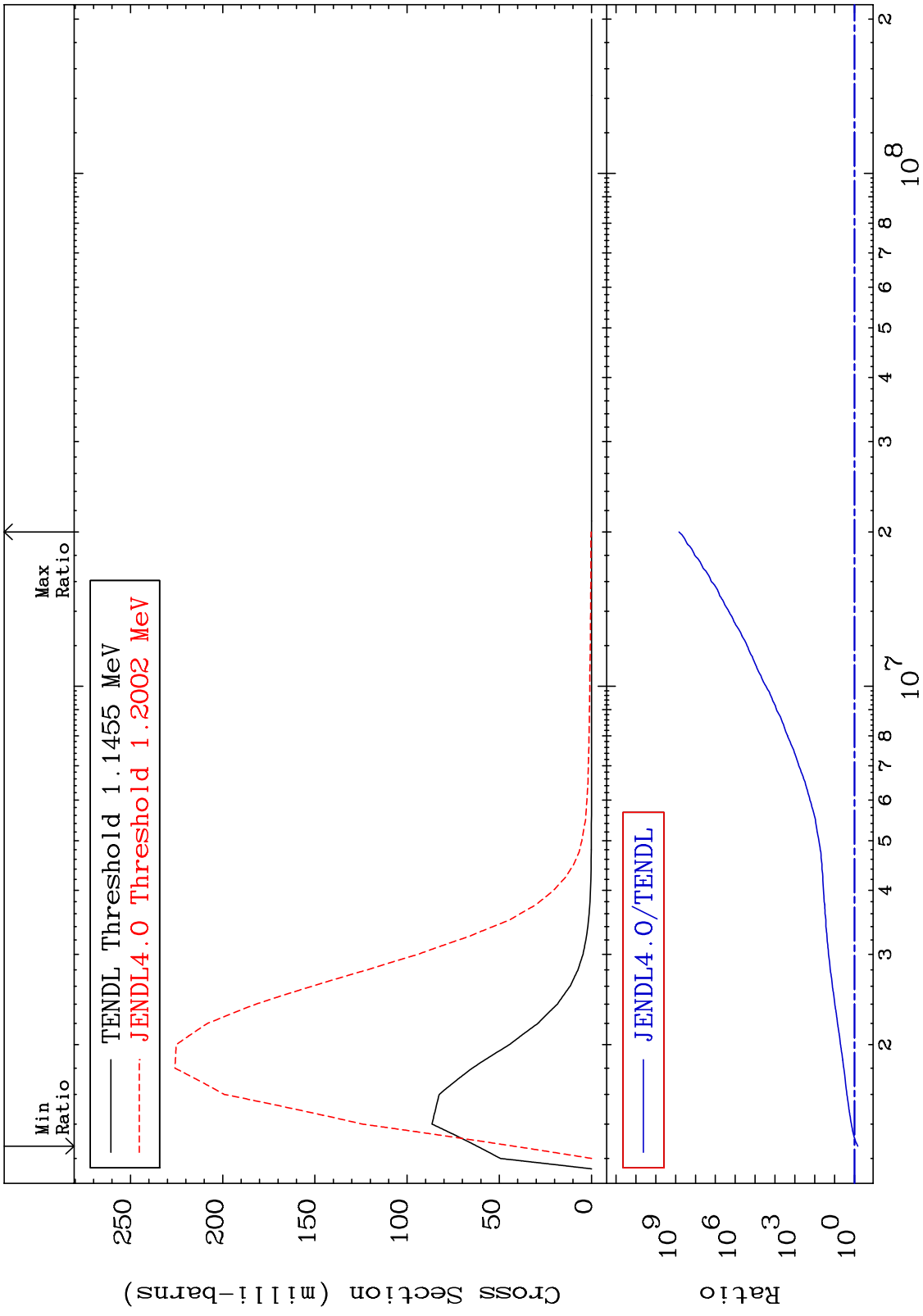
MAT 7049 MT= 56 (n,n') Level Cross Section 70-Yb-176 -94.03 To 192.7 %



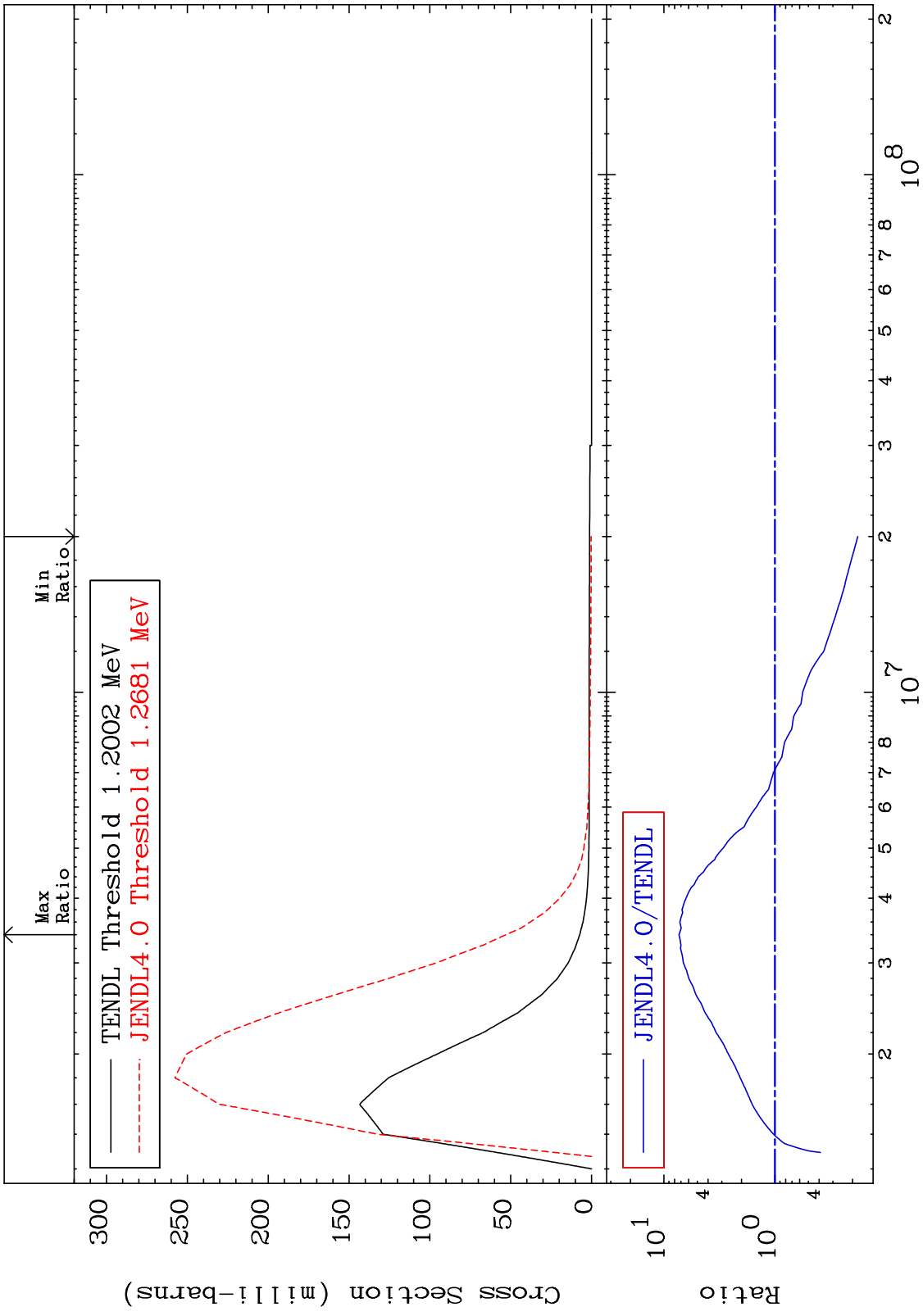
MAT 7049 MT= 57 (n,n') Level 70-Yb-176
 Cross Section -36.88 To 9999. %



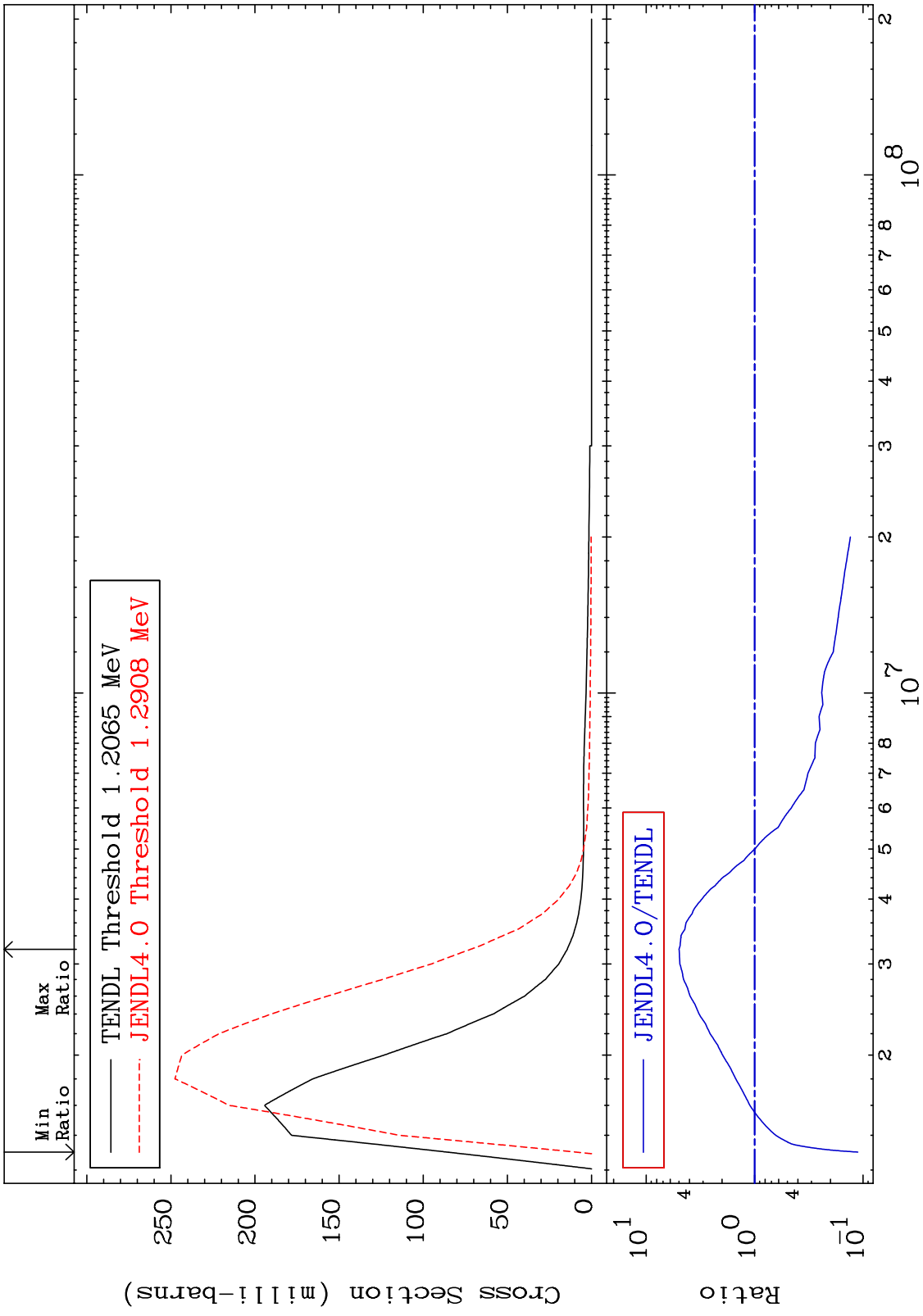
MAT 7049 MT= 58 (n,n') Level 70-Yb-176
 Cross Section -32.02 To 9999. %



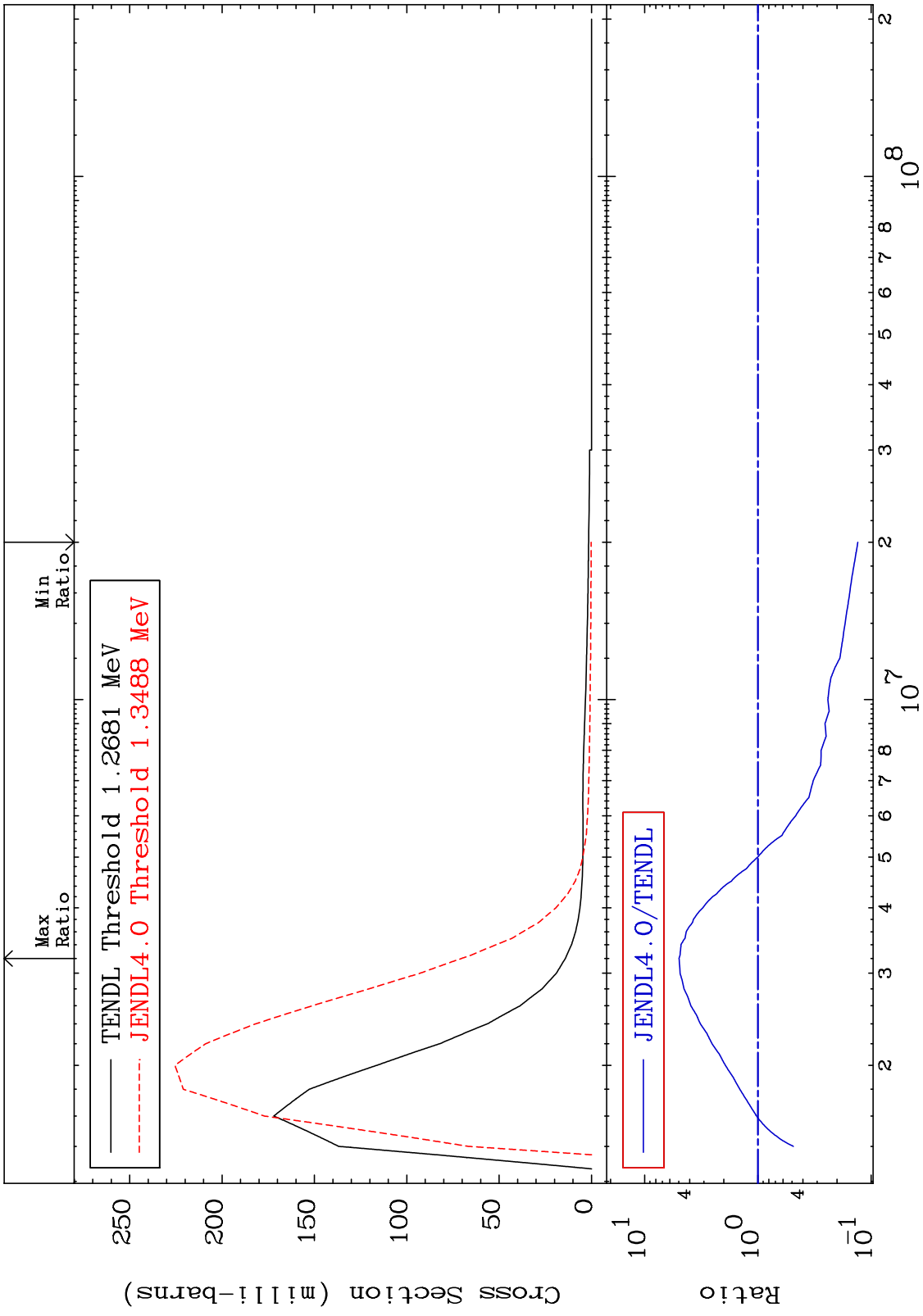
MAT 7049 MT= 59 (n,n') Level Cross Section 70-Yb-176
 -82.09 To 629.8 %



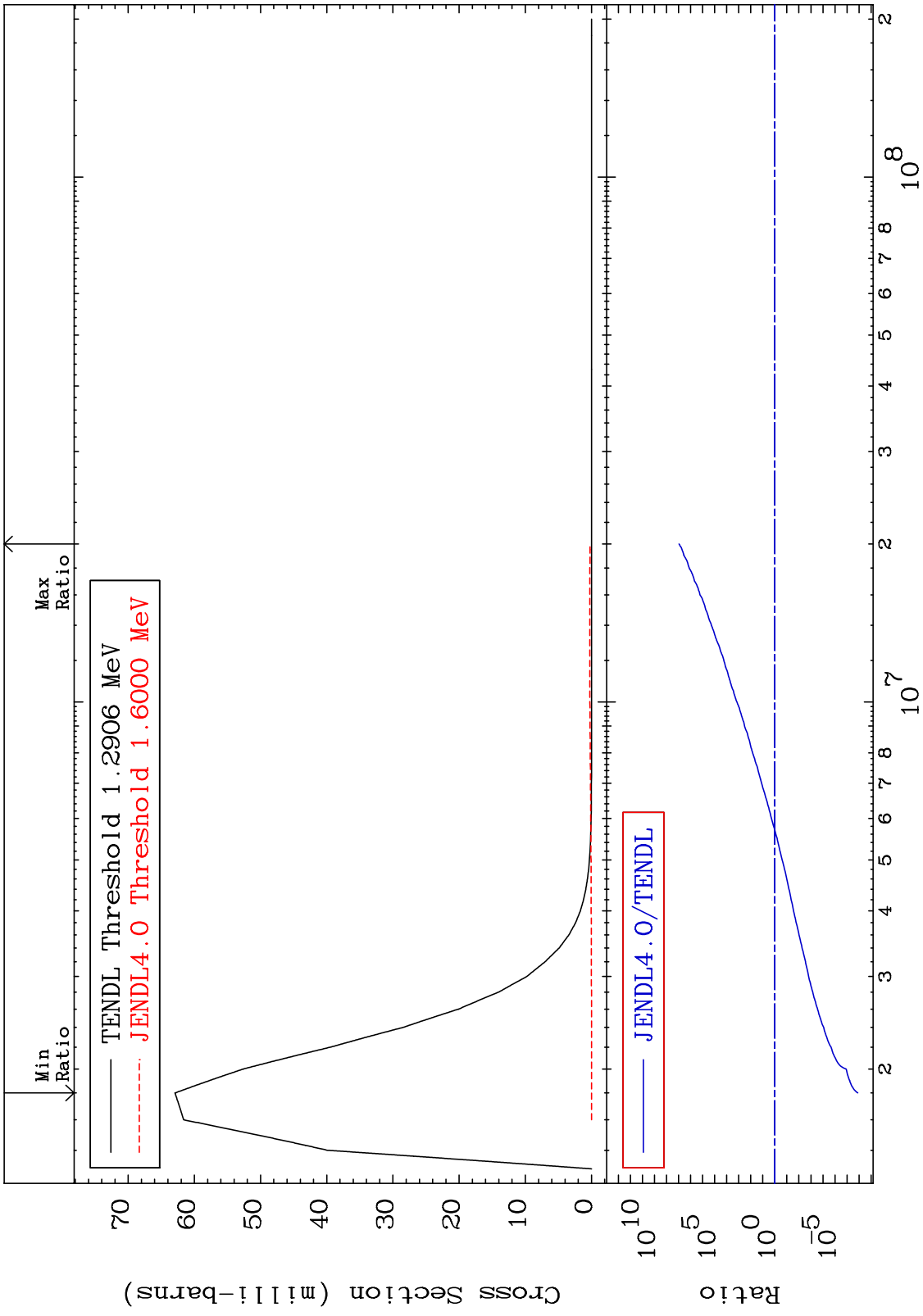
MAT 7049 MT= 60 (n,n') Level Cross Section 70-Yb-176 -88.82 To 398.5 %



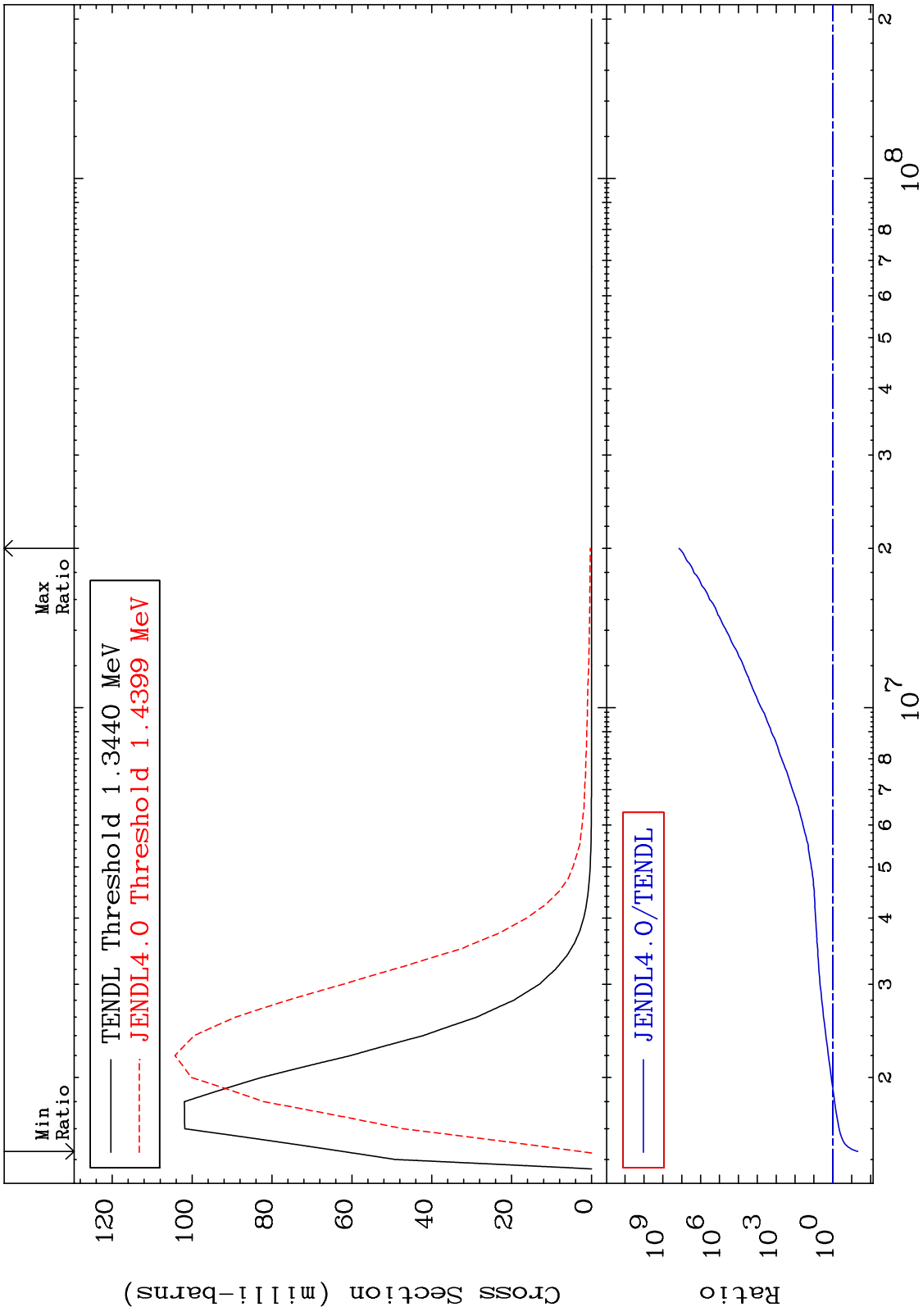
MAT 7049 MT= 61 (n,n') Level Cross Section 70-Yb-176
 -86.89 To 397.6 %

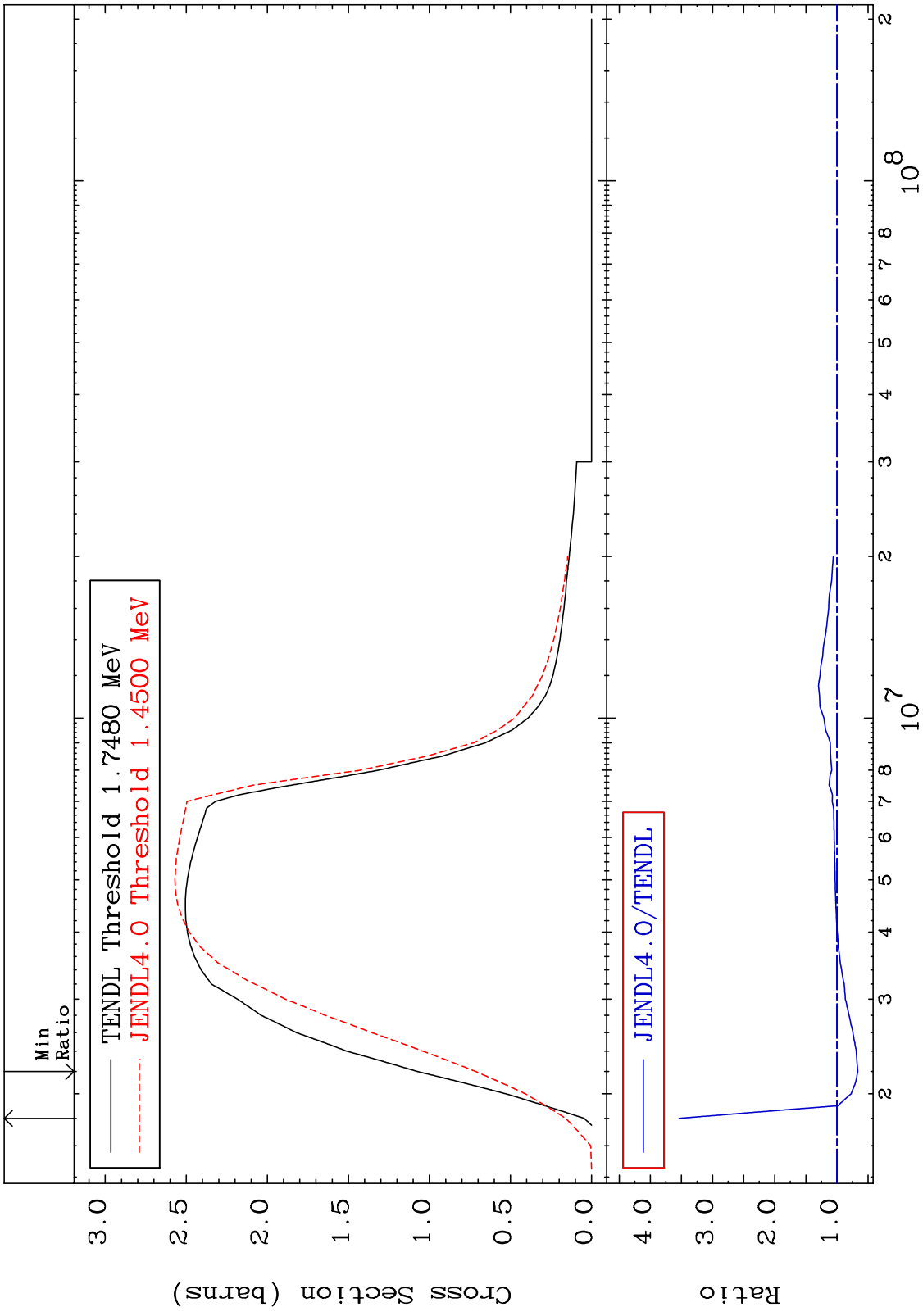


MAT 7049 MT= 62 (n,n') Level Cross Section -100.0 To 9999. % 70-Yb-176



MAT 7049 MT= 63 (n,n') Level Cross Section 70-Yb-176 -95.25 To 9999. %





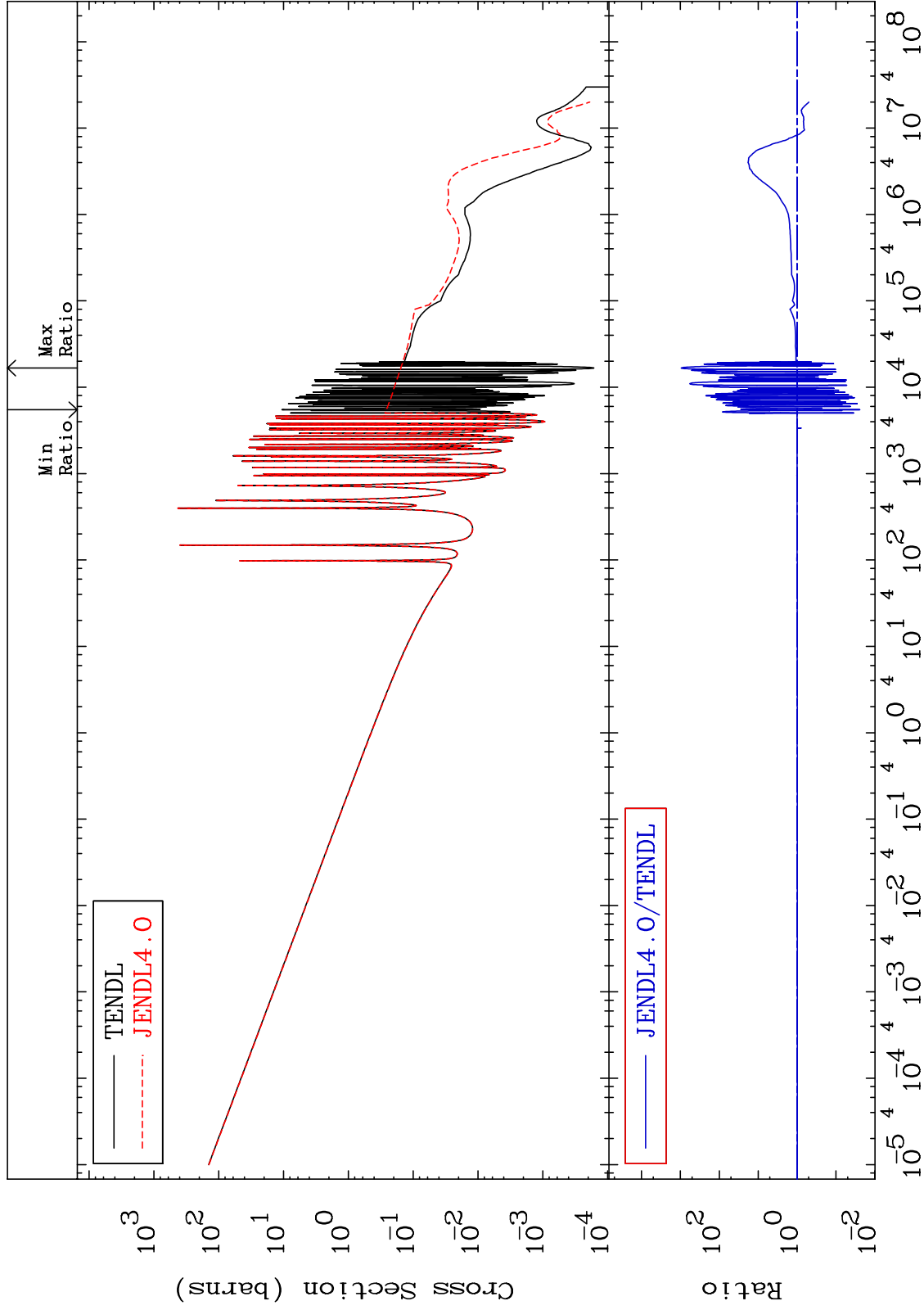
MAT 7049

(n, γ)

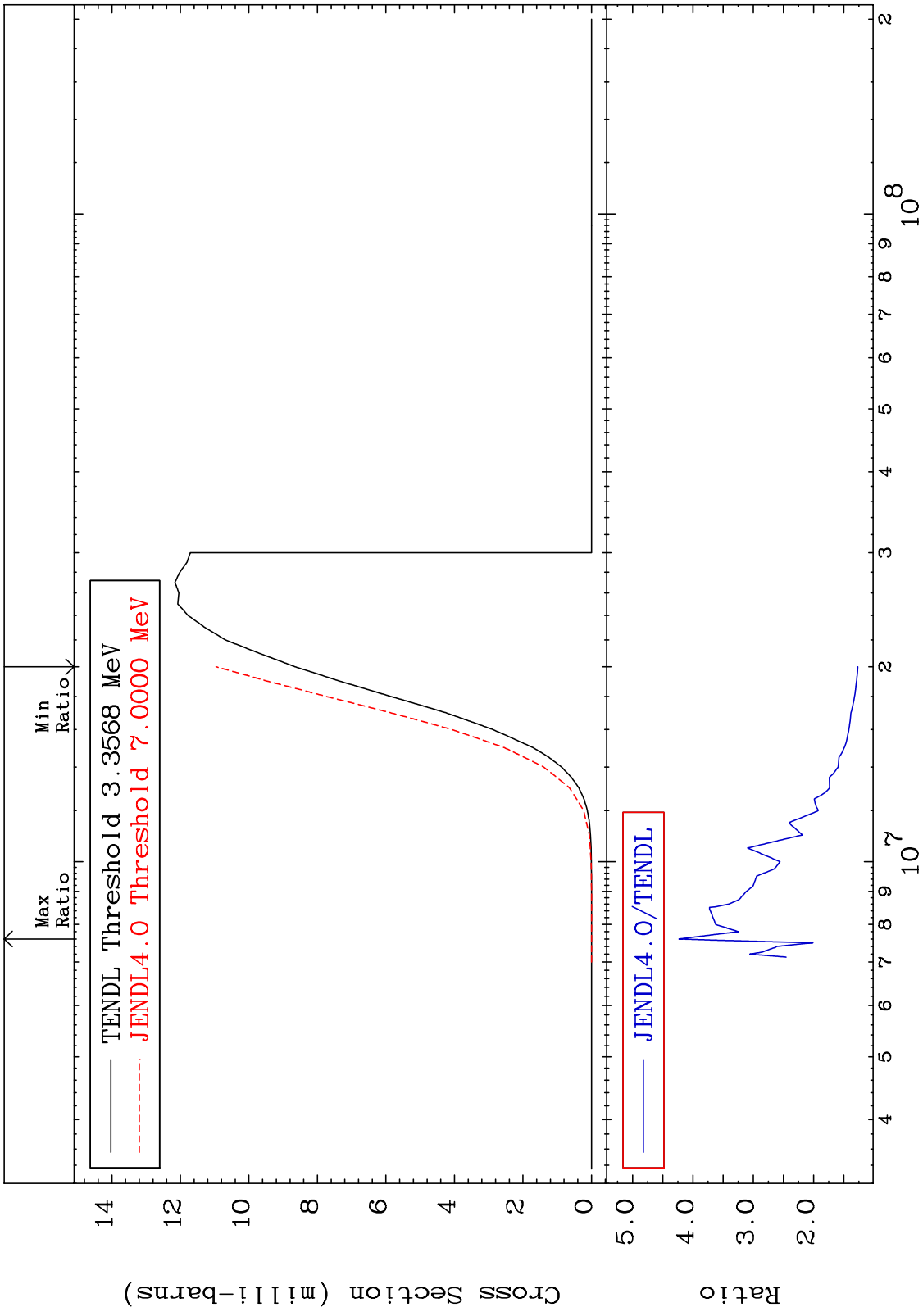
70-Yb-176

Cross Section

-97.57 To 9999. %

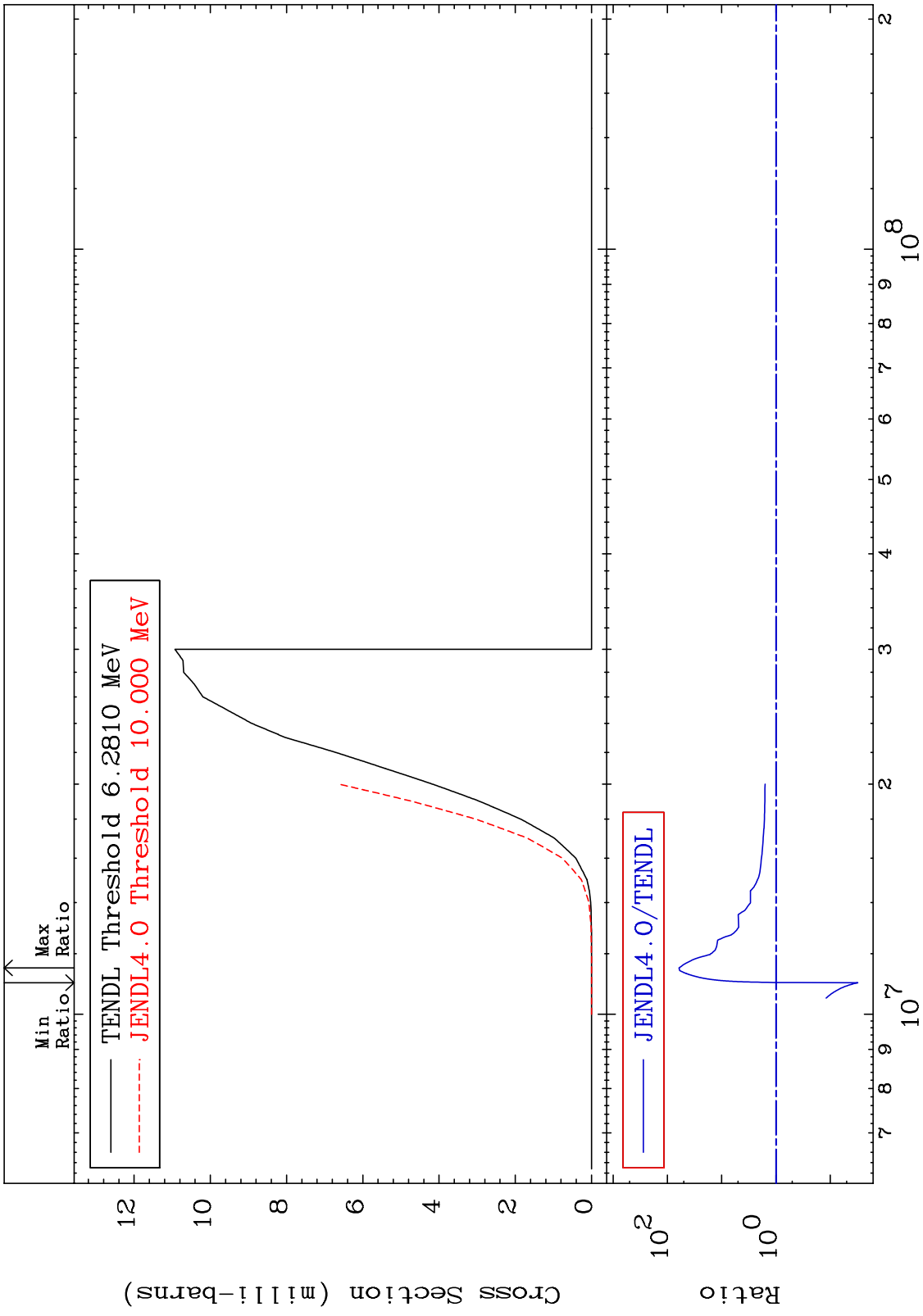


MAT 7049 (n,p) 70-Yb-176
Cross Section 26.60 To 323.1 %



24 Incident Energy (eV) 70-Yb-176

MAT 7049 (n,d) Cross Section 70-Yb-176 -96.90 To 6003. %



Incident Energy (eV) 70-Yb-176

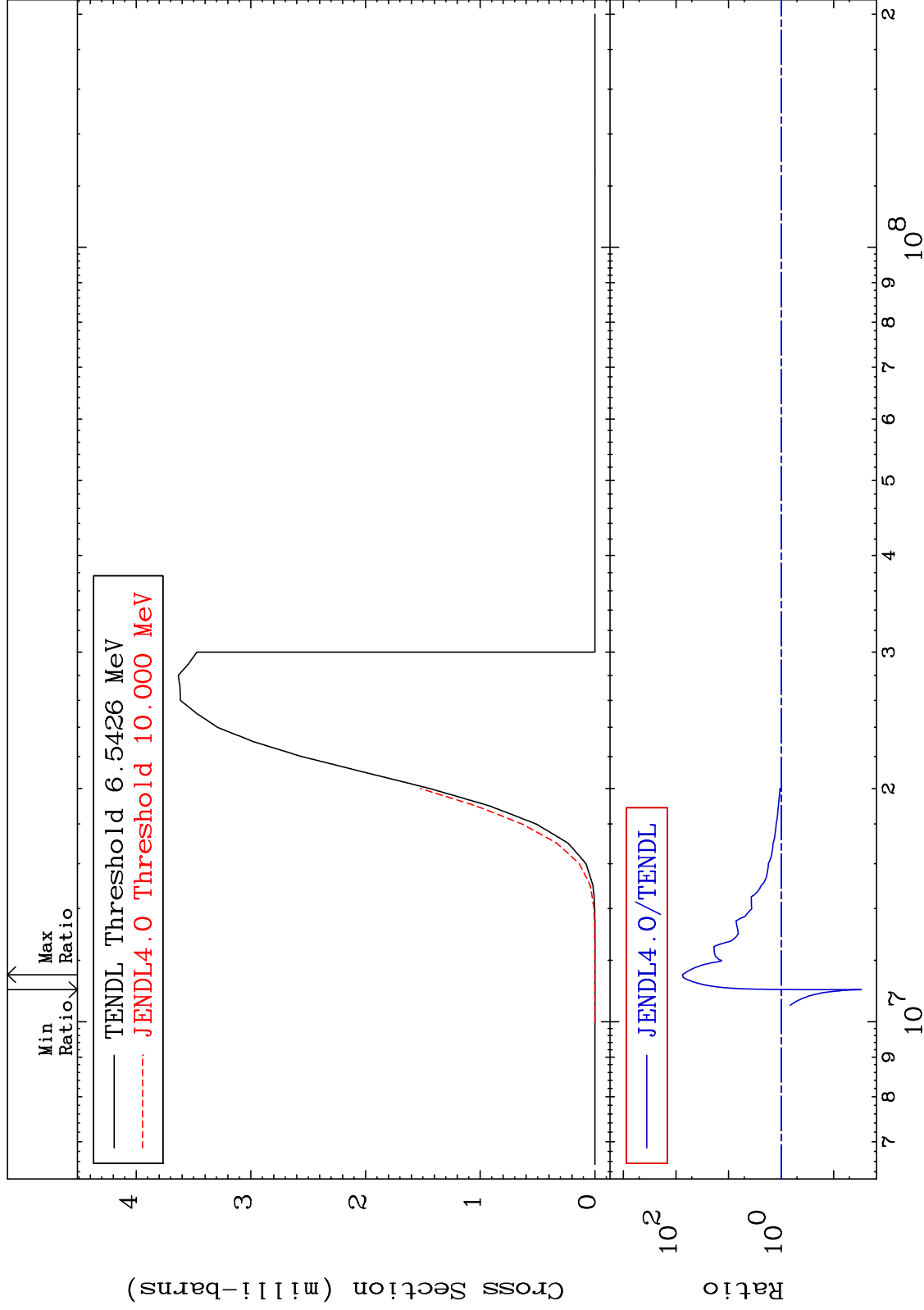
MAT 7049

(n,t)

70-Yb-176

Cross Section

-97.01 To 7423. %



26

Incident Energy (eV)

70-Yb-176

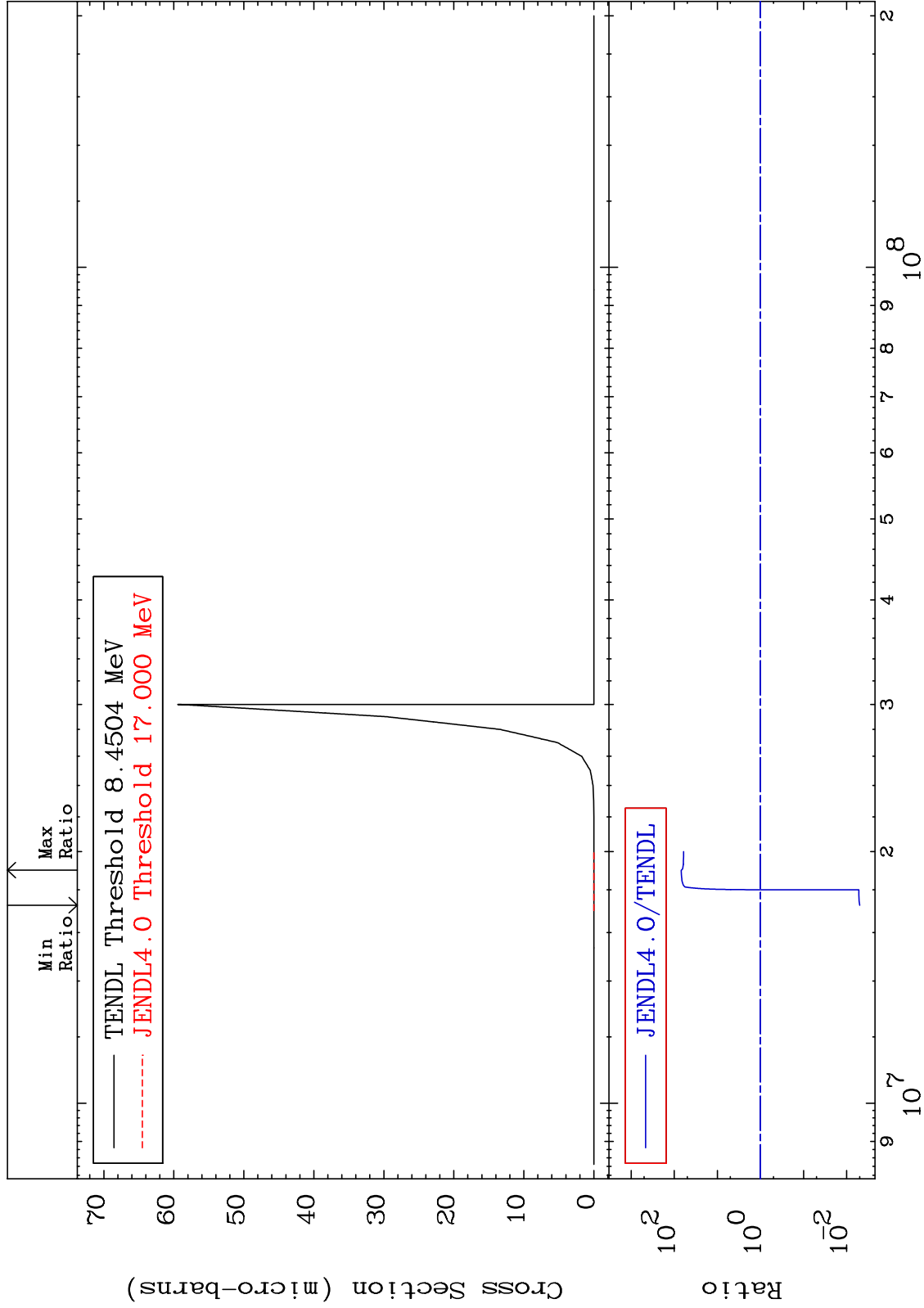
MAT 7049

(n, He-3)

70-Yb-176

Cross Section

-99.50 To 6773. %



27

Incident Energy (eV)

70-Yb-176

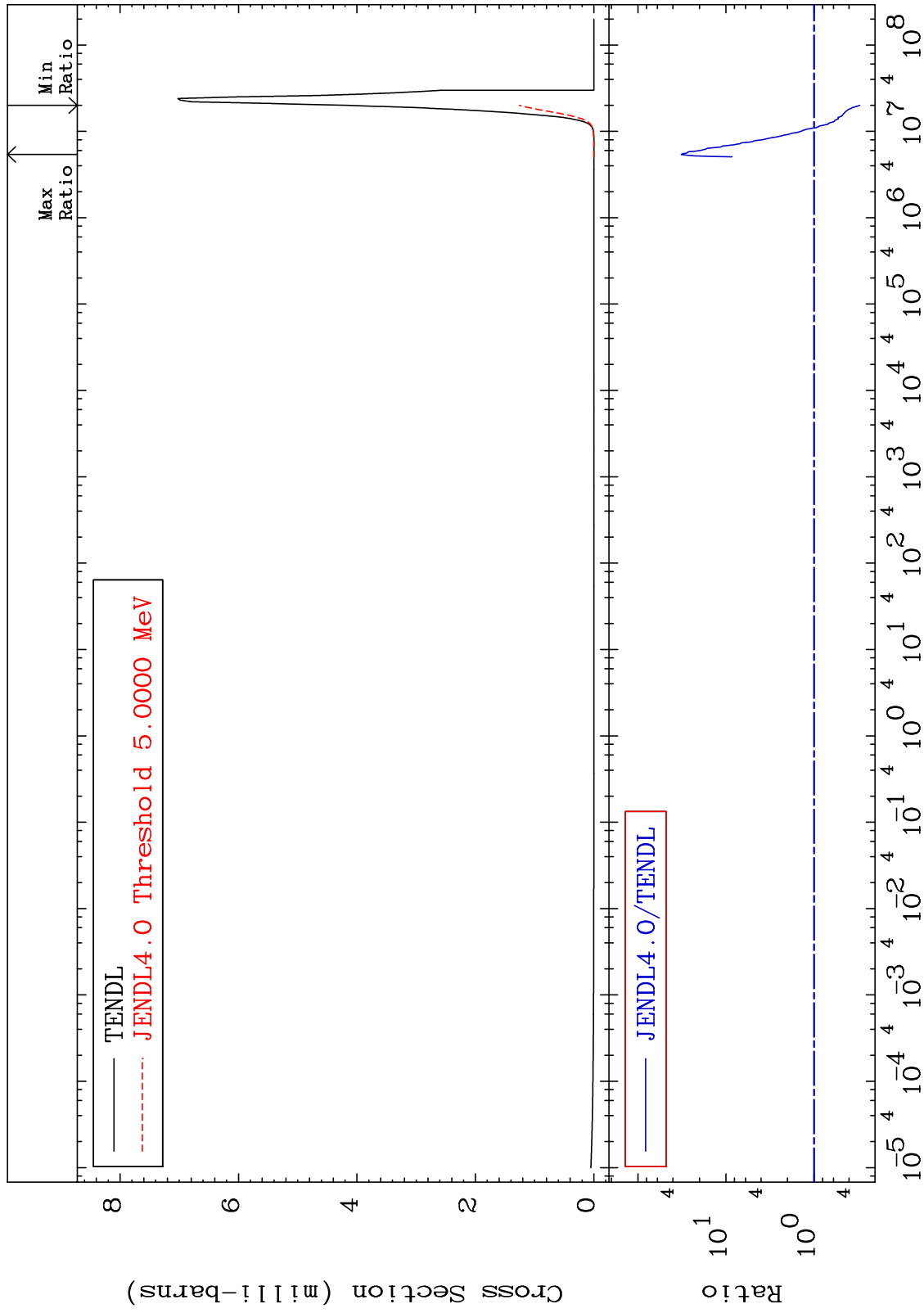
MAT 7049

(n,α)

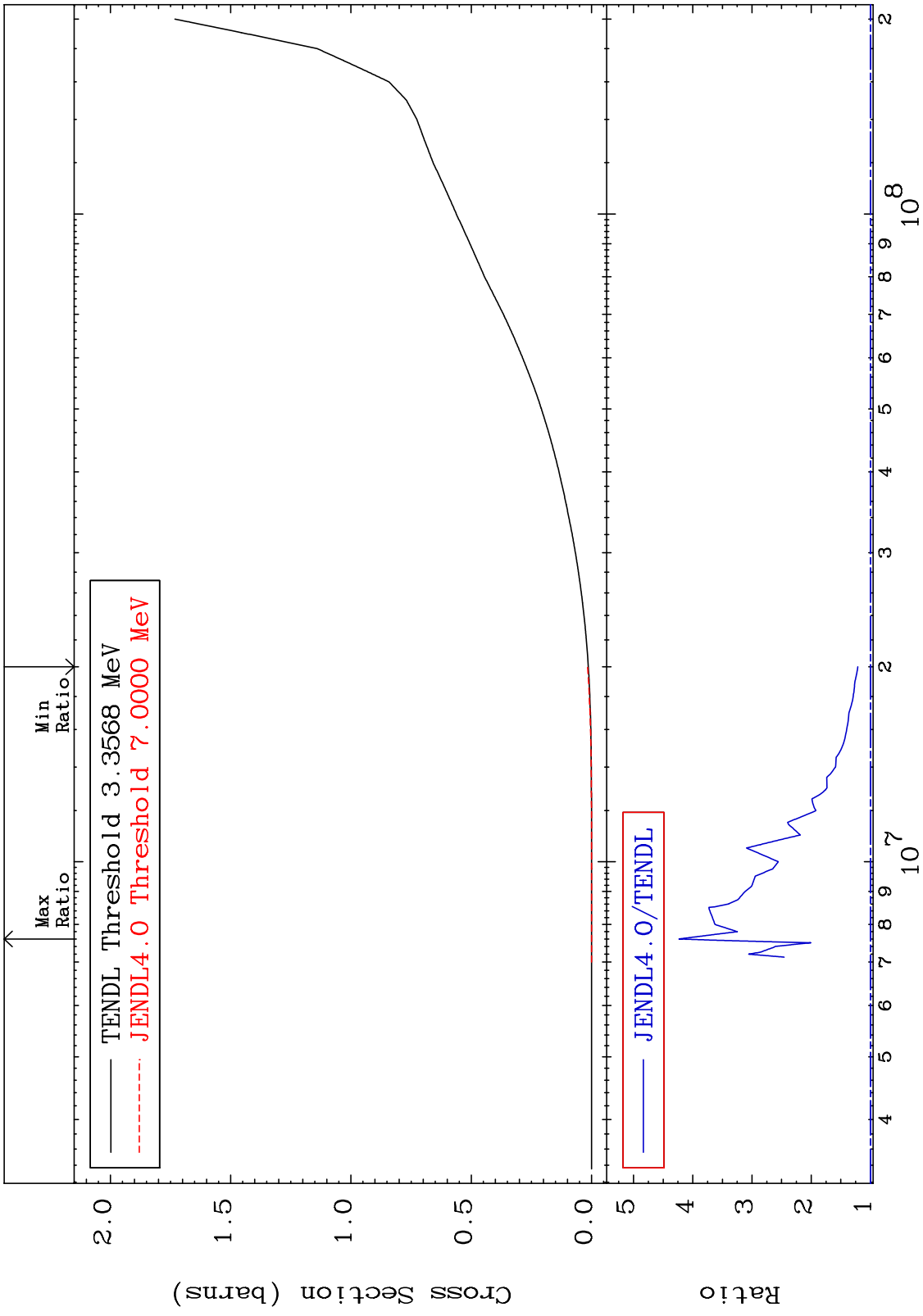
70-Yb-176

Cross Section

-69.79 To 3117. %



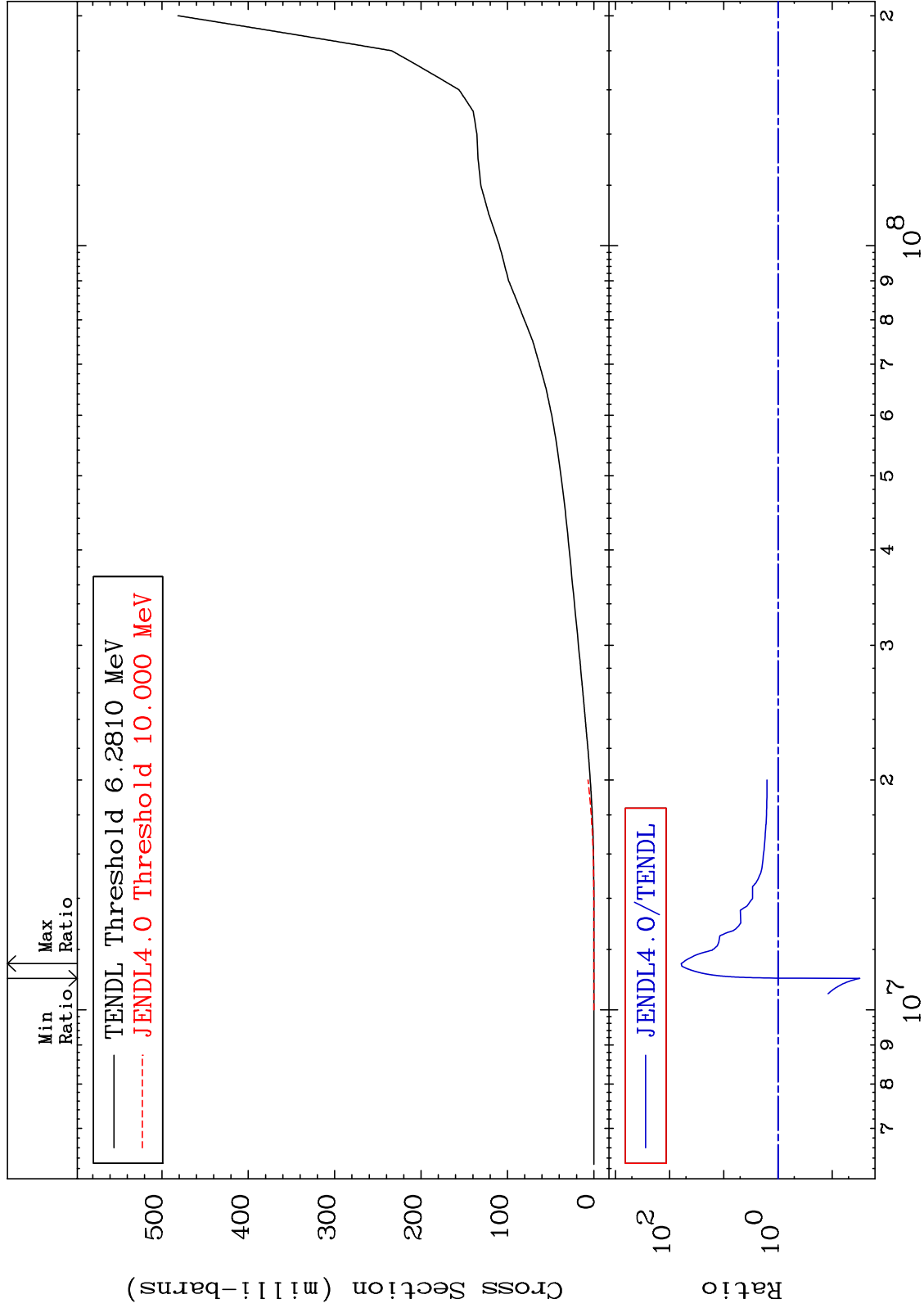
MAT 7049 Hydrogen Production Cross Section 70-Yb-176 To 323.1 %



MAT 7049

Deuterium Production Cross Section

70-Yb-176
-96.90 To 6003. %



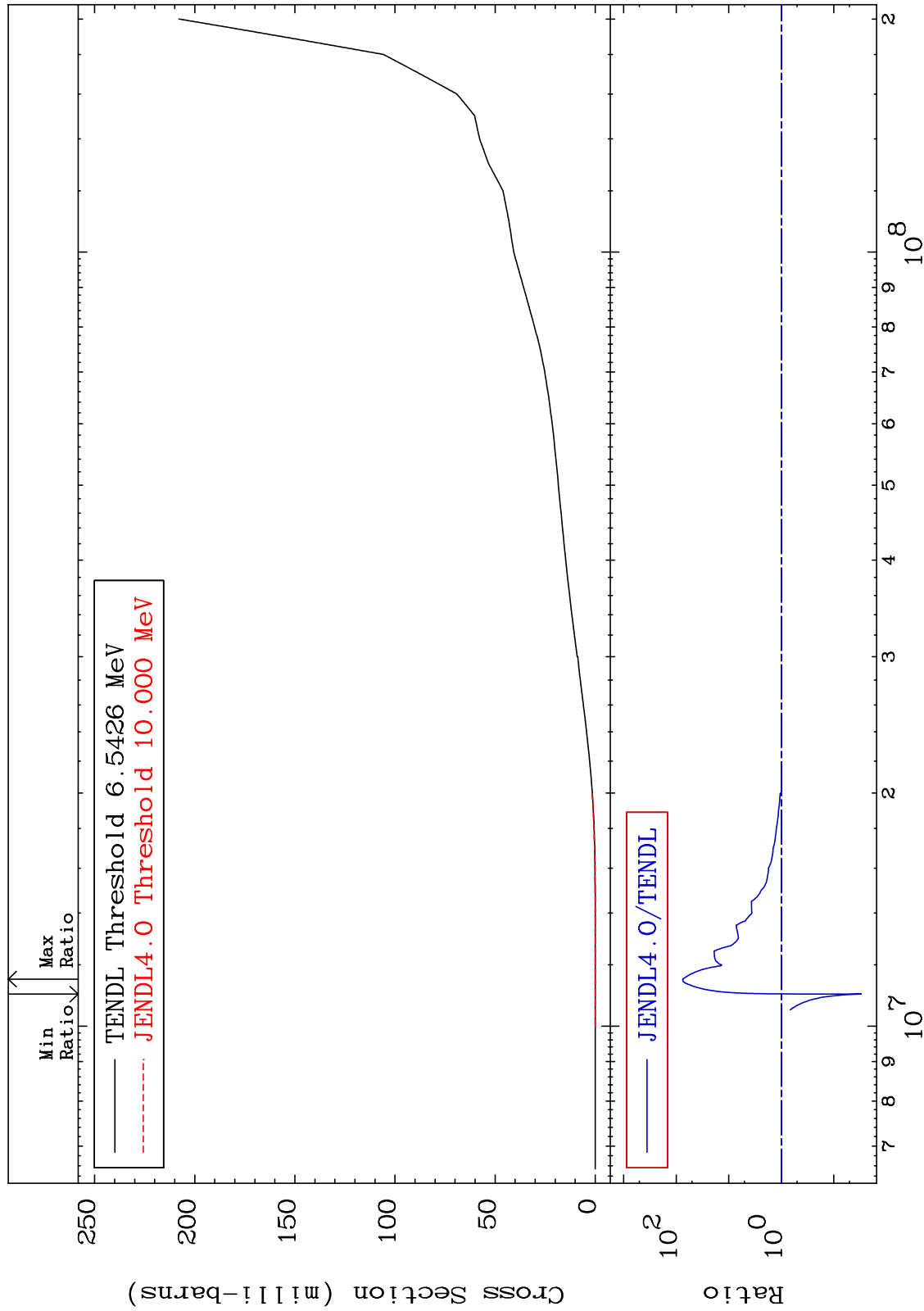
30

70-Yb-176

MAT 7049

Tritium Production
Cross Section

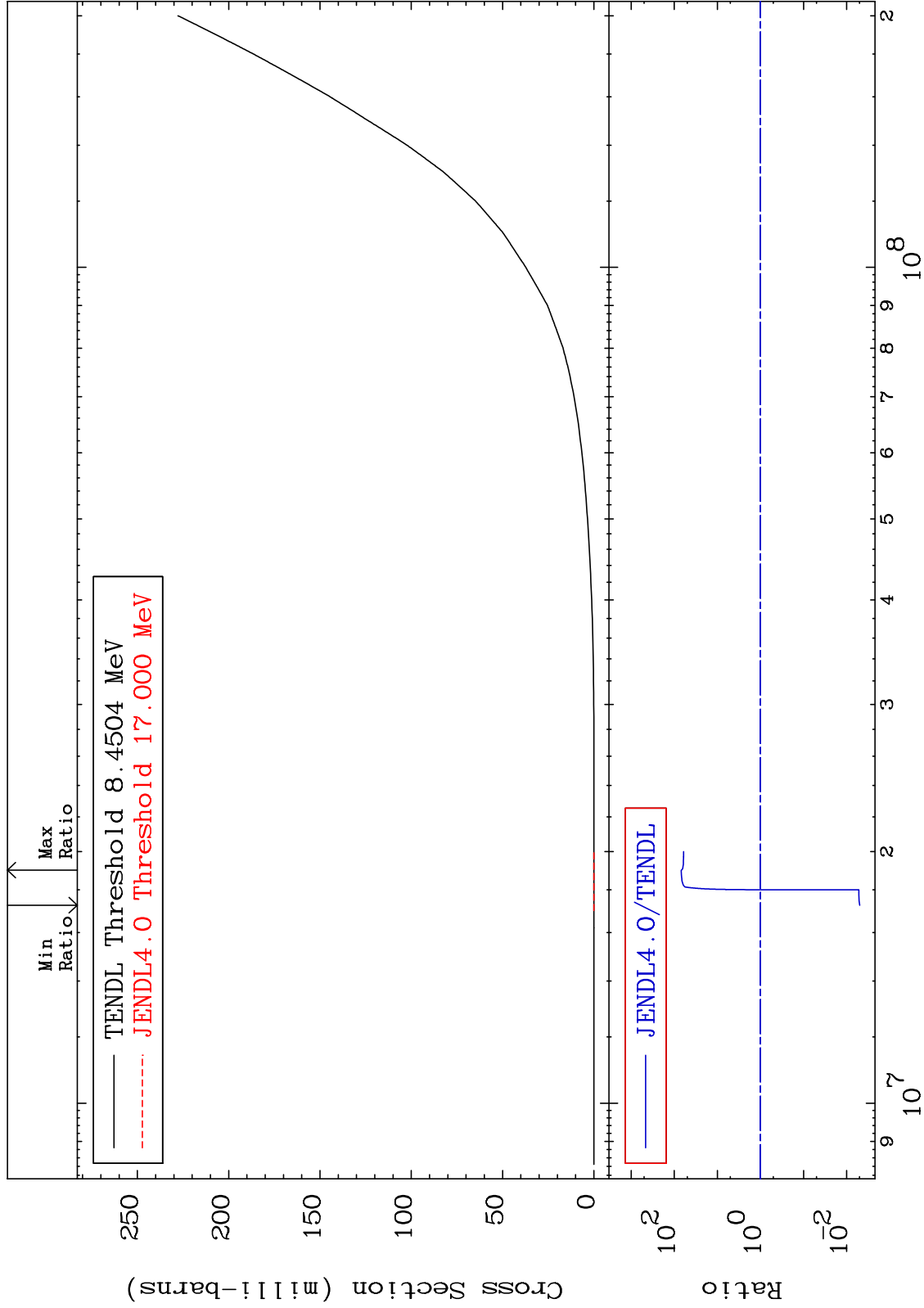
⁷⁰-Yb-176
-97.01 To 7423. %



MAT 7049

He-3 Production
Cross Section

70-Yb-176
-99.50 To 6773. %



32

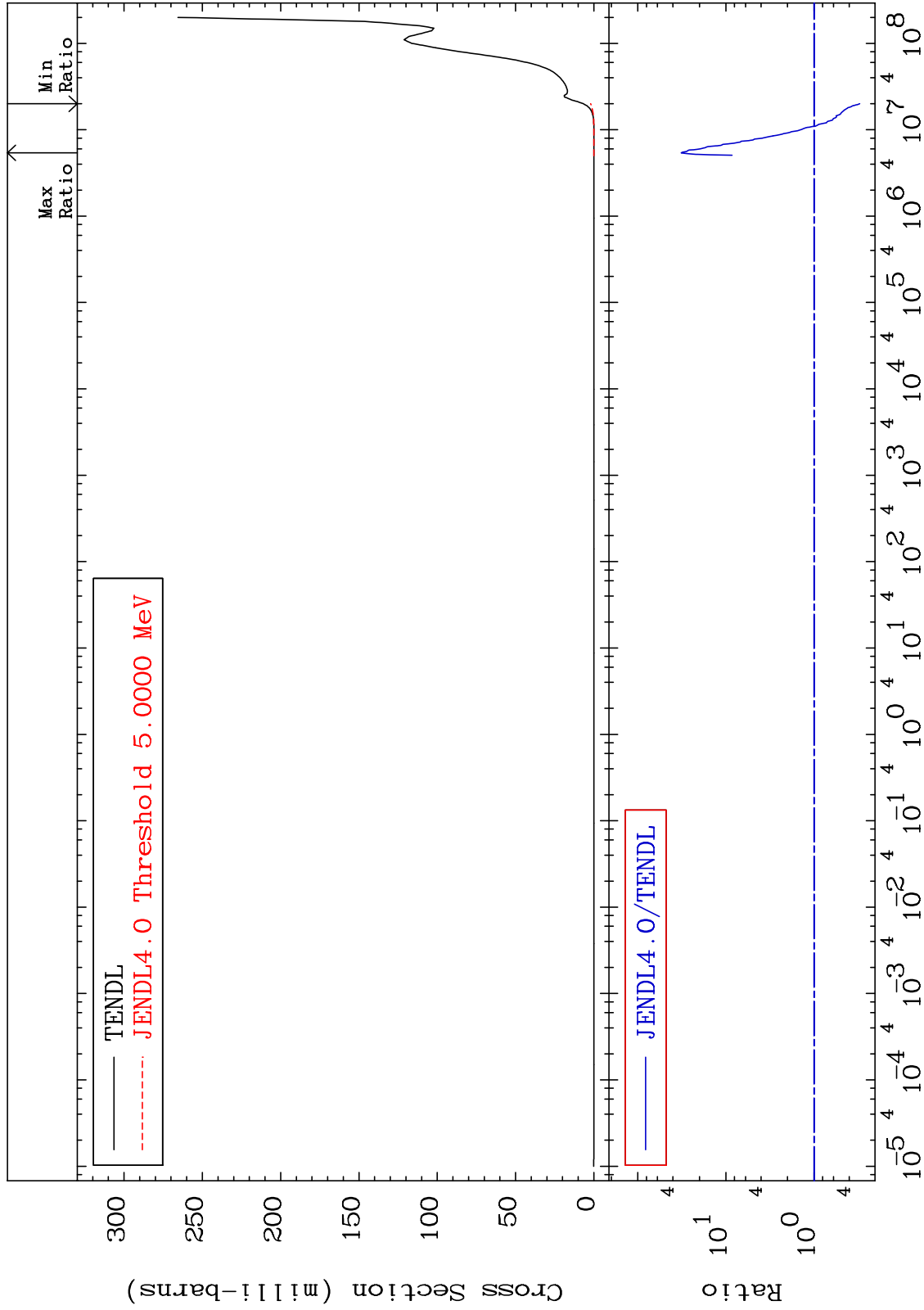
Incident Energy (eV)

70-Yb-176

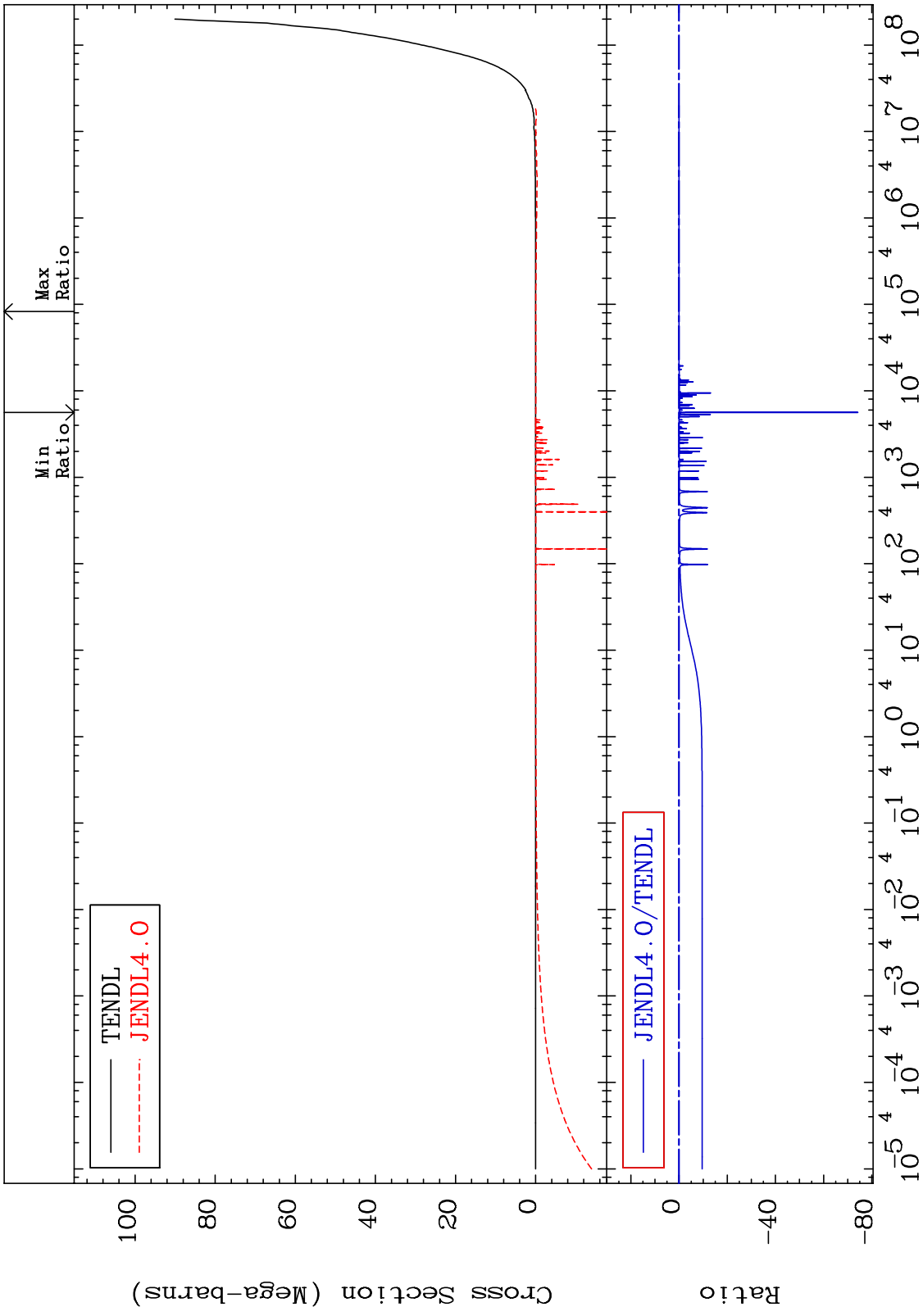
MAT 7049

He-4 Production
Cross Section

70-Yb-176
-69.70 To 3117. %

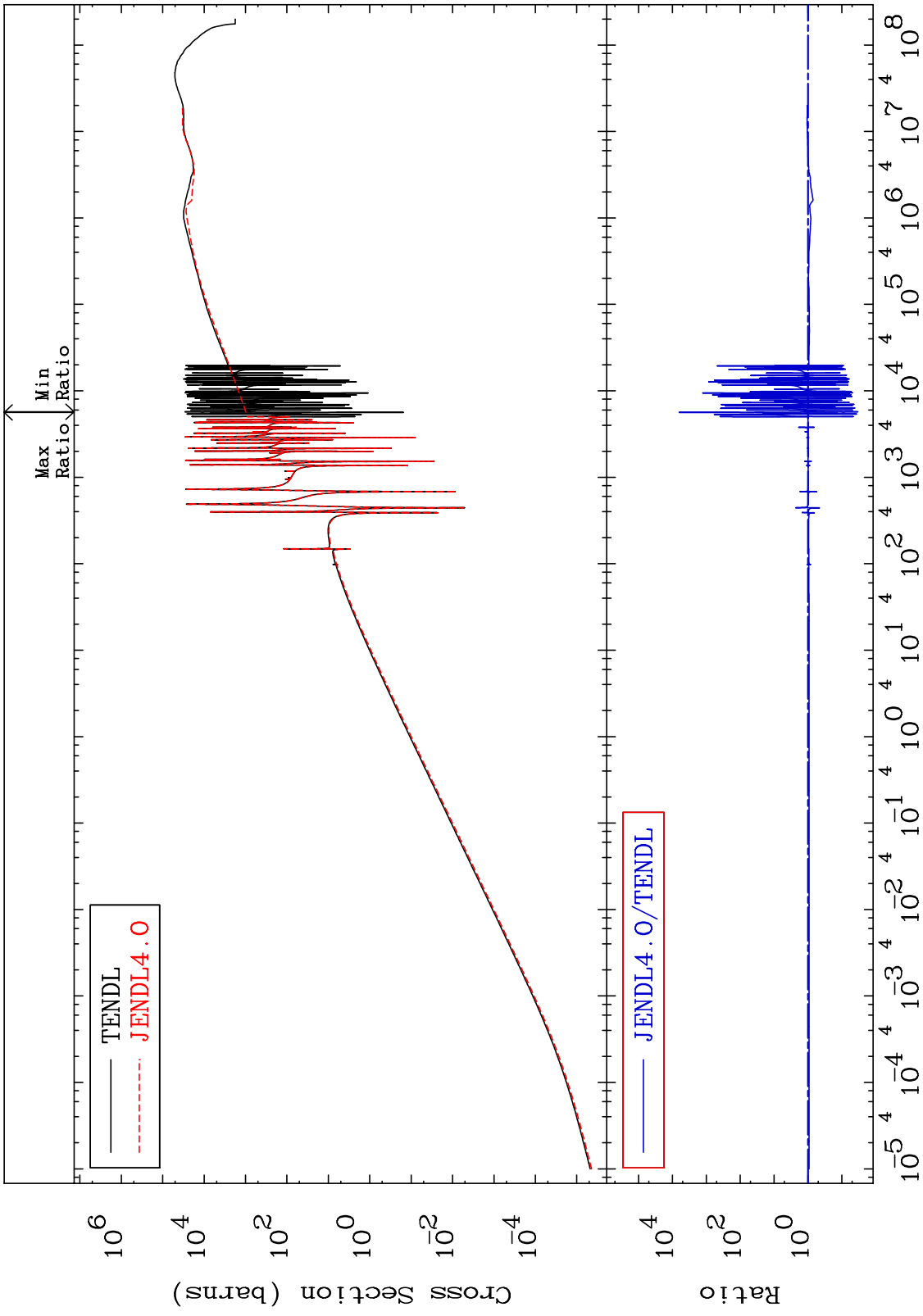


MAT 7049 Kerma total (eV-barns) Cross Section 70-Yb-176 -9999. To 1067. %

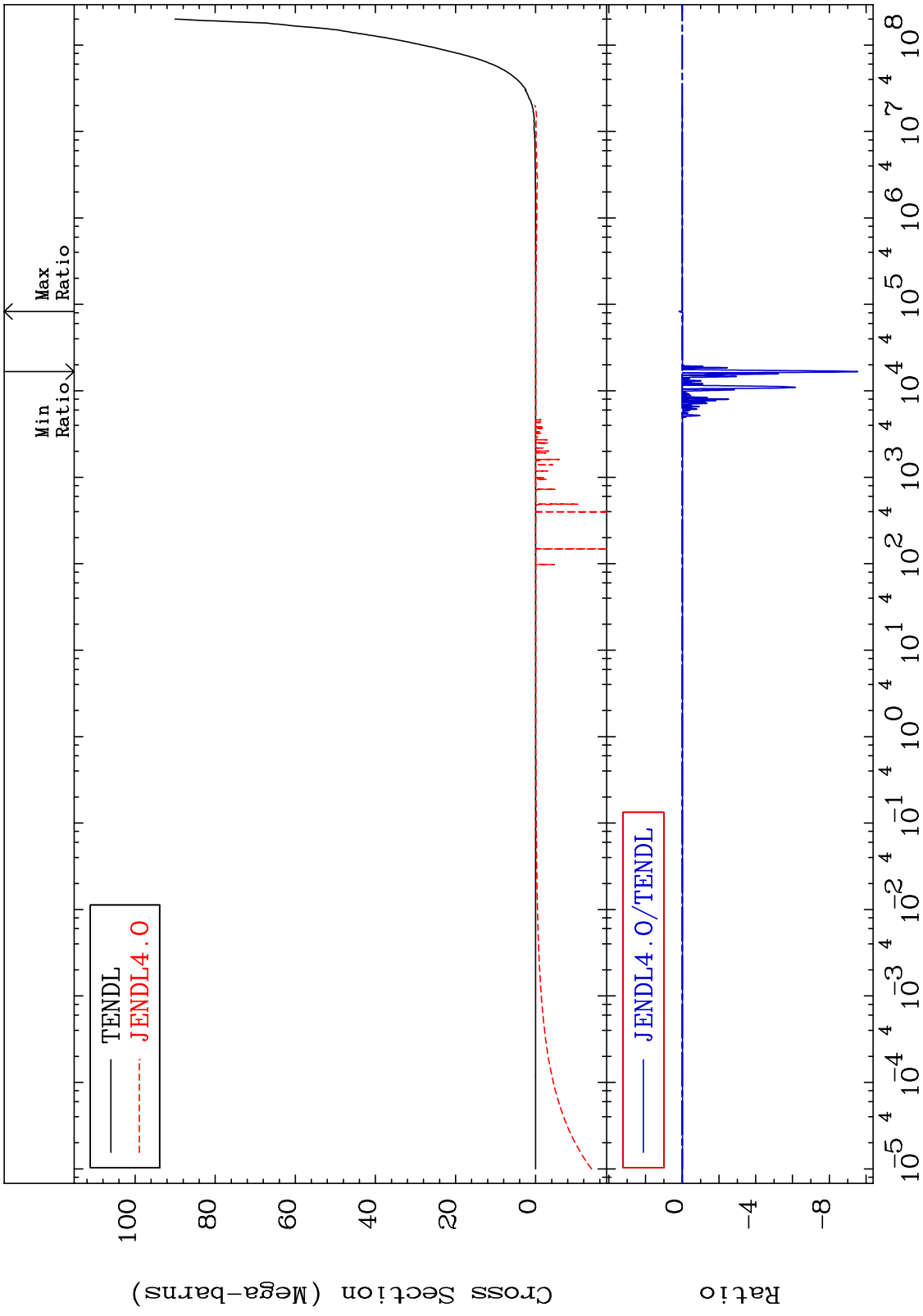


34 Incident Energy (eV) 70-Yb-176

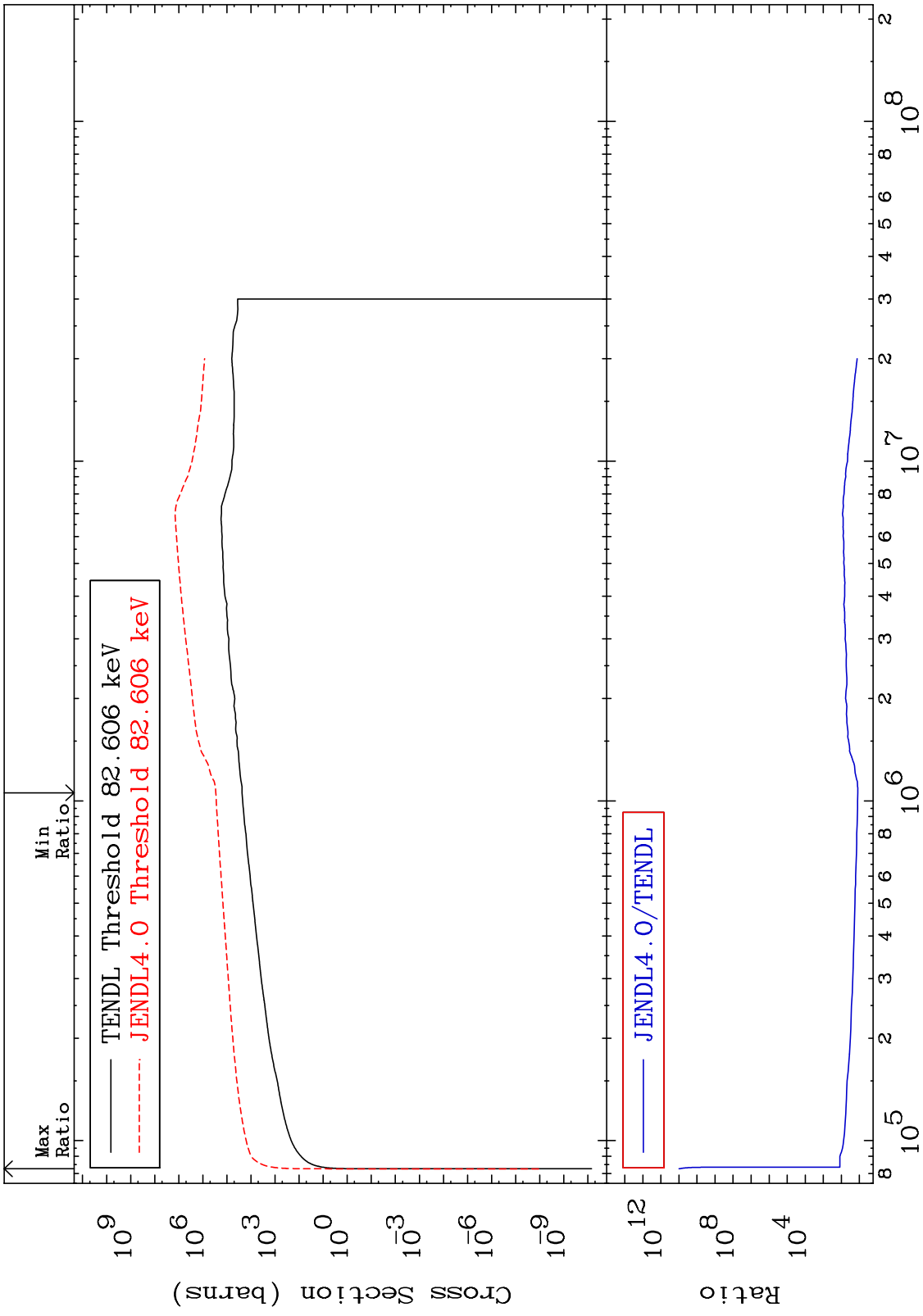
MAT 7049 Kerma elastic Cross Section 70-Yb-176
 -96.61 To 9999. %



MAT 7049 Kerma non-elastic (all but mt.2) 70-Yb-176
 Cross Section -9999. To 9999. %



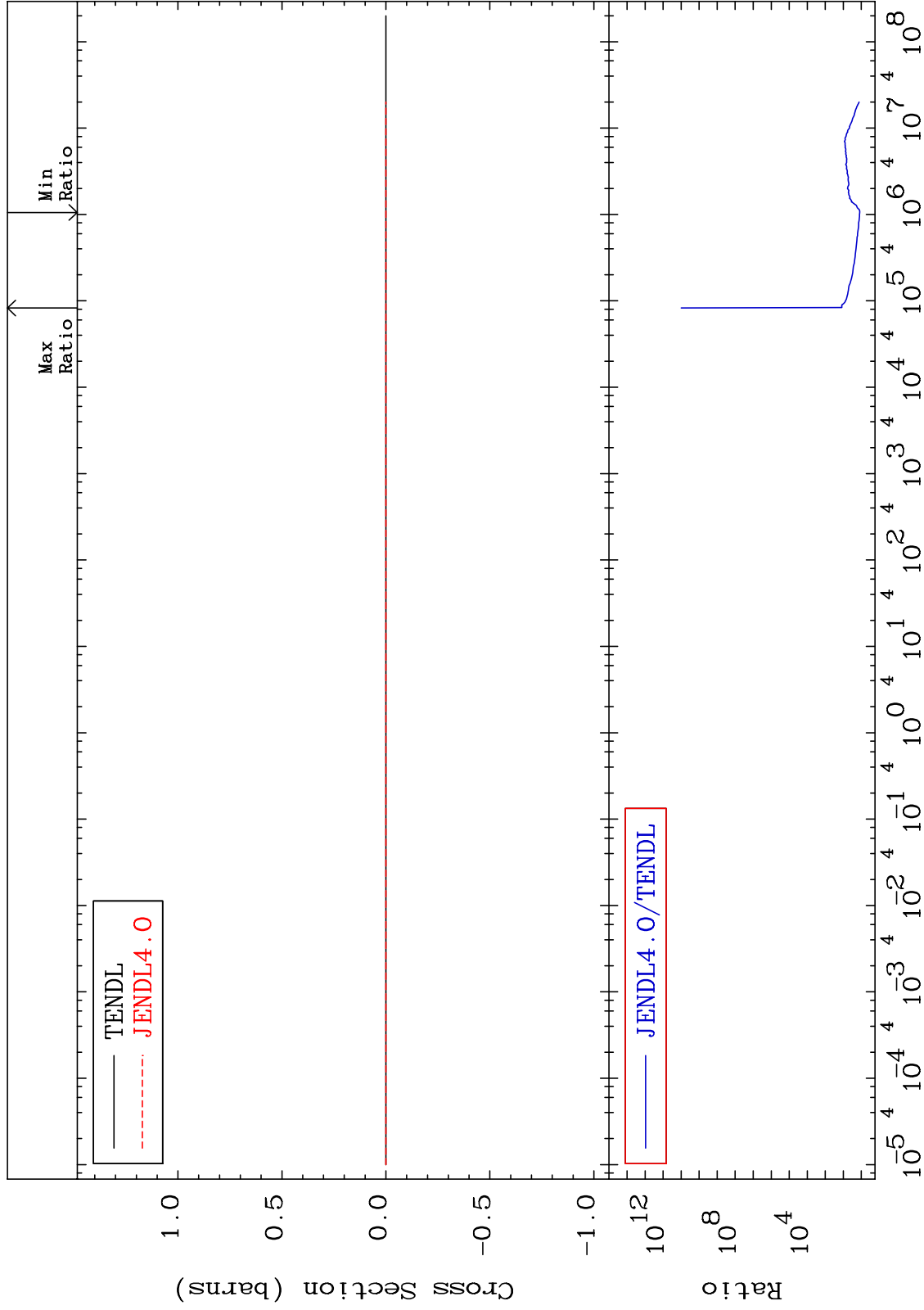
MAT 7049 Kerma inelastic (mt51-91) 70-Yb-176
 Cross Section 1124. To 9999. %



MAT 7049

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

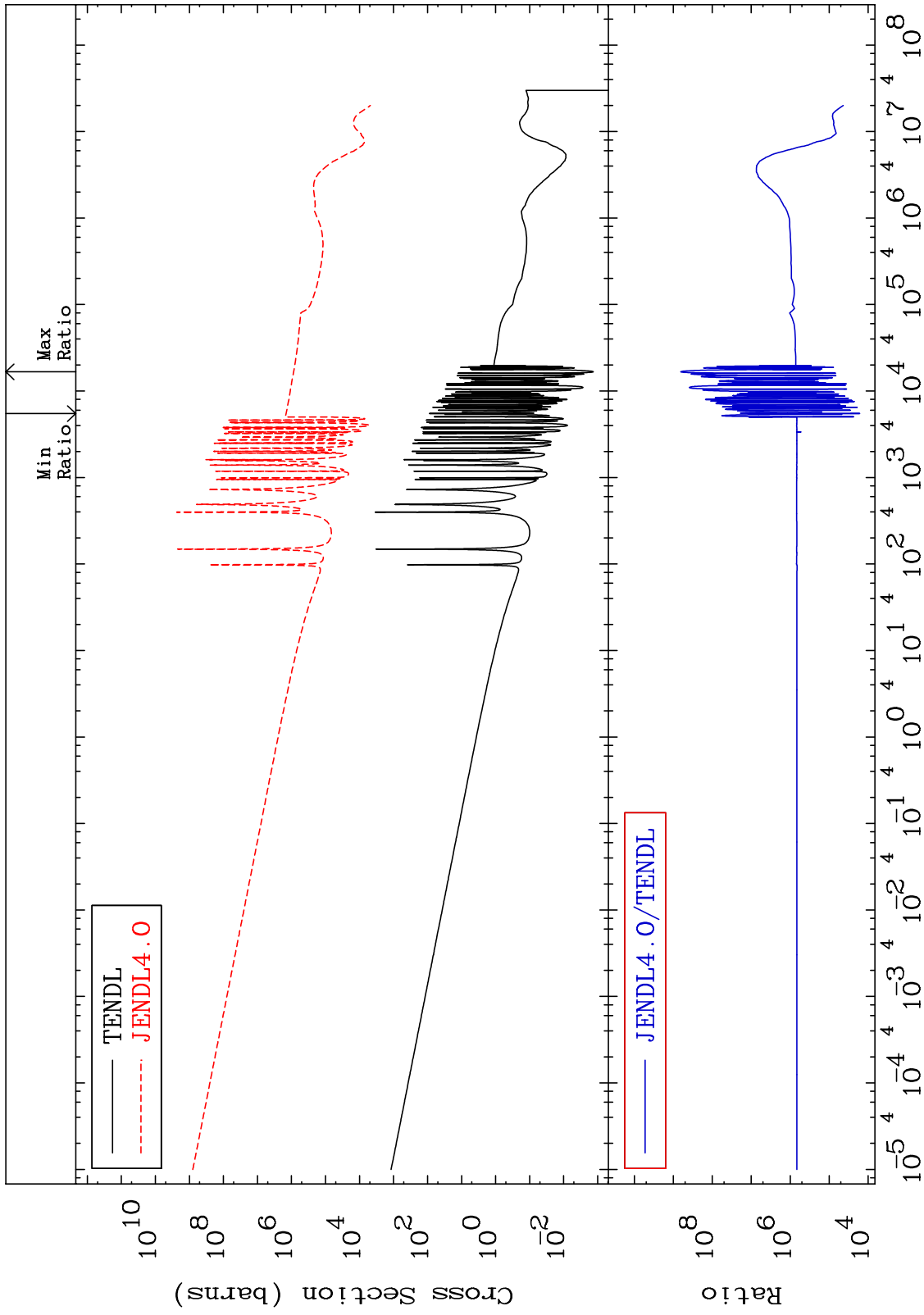
70-Yb-176
1124. To 9999. %



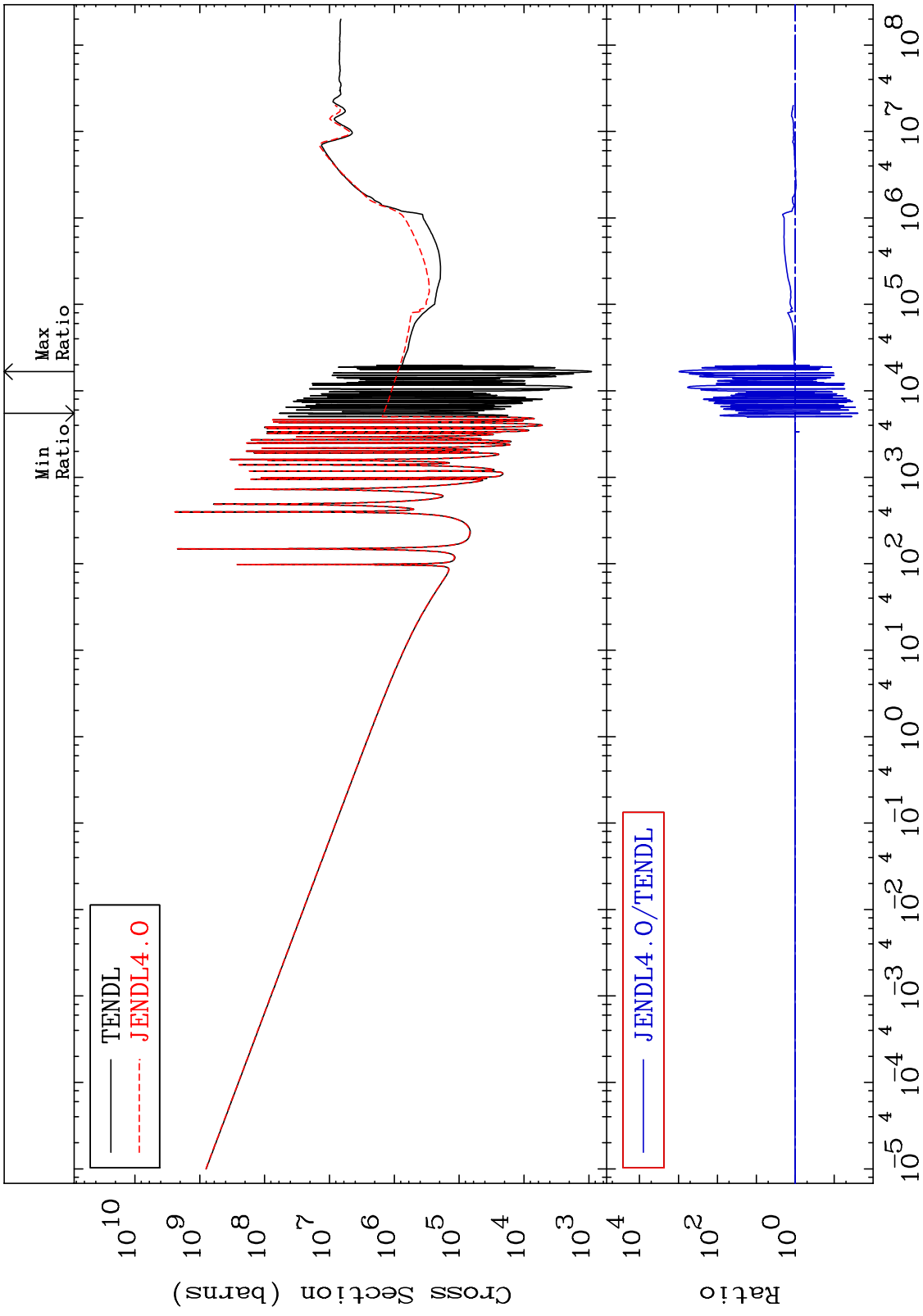
MAT 7049

Kerma capture (mt102)
Cross Section

70-Yb-176
9999. To 9999. %

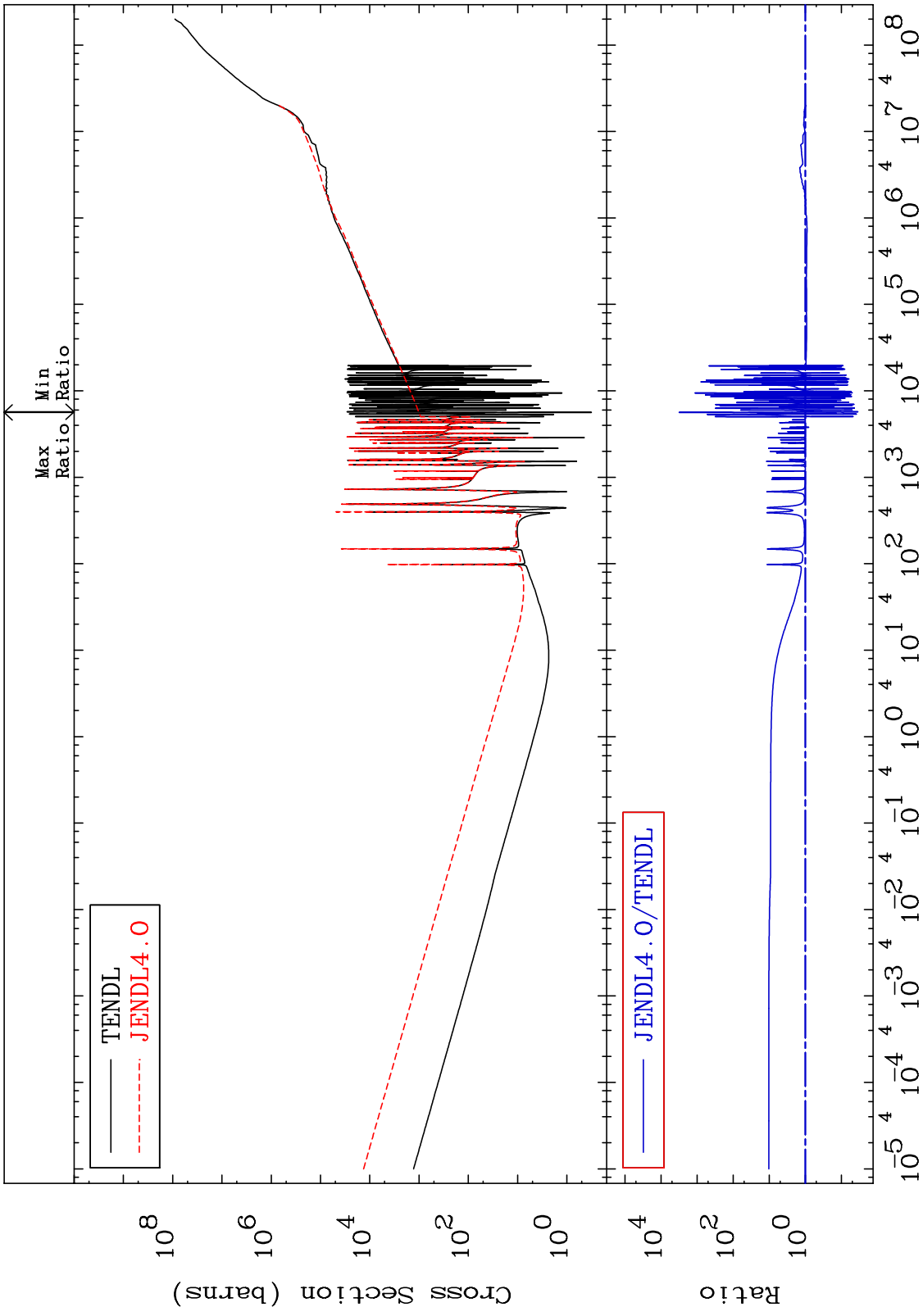


MAT 7049 Total photon (eV-barns) Cross Section 70-Yb-176 -97.52 To 9999. %



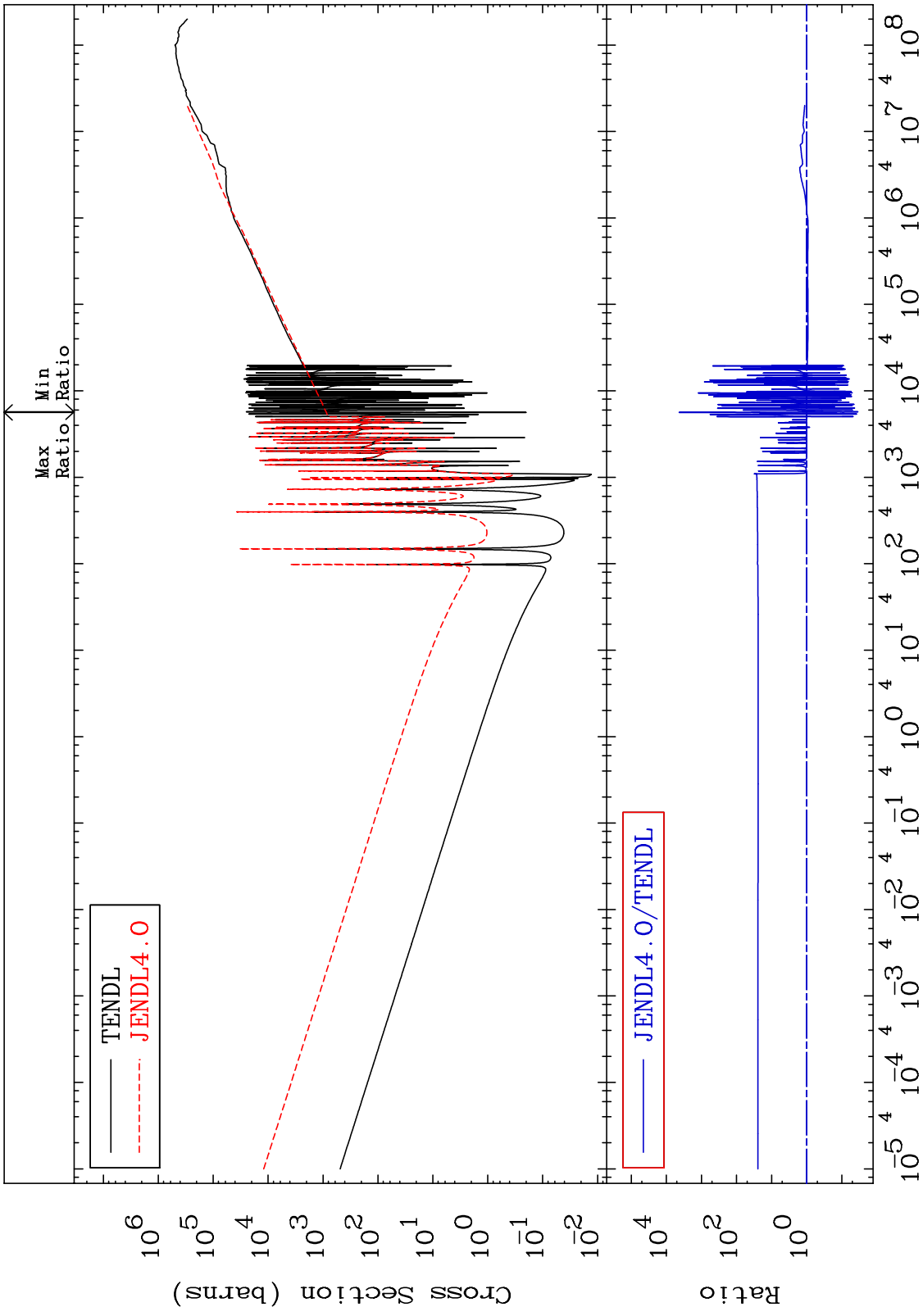
40 70-Yb-176

MAT 7049 Total kinematic kerma (high limit) 70-Yb-176
 Cross Section -96.50 To 9999. %



41 Incident Energy (eV) 70-Yb-176

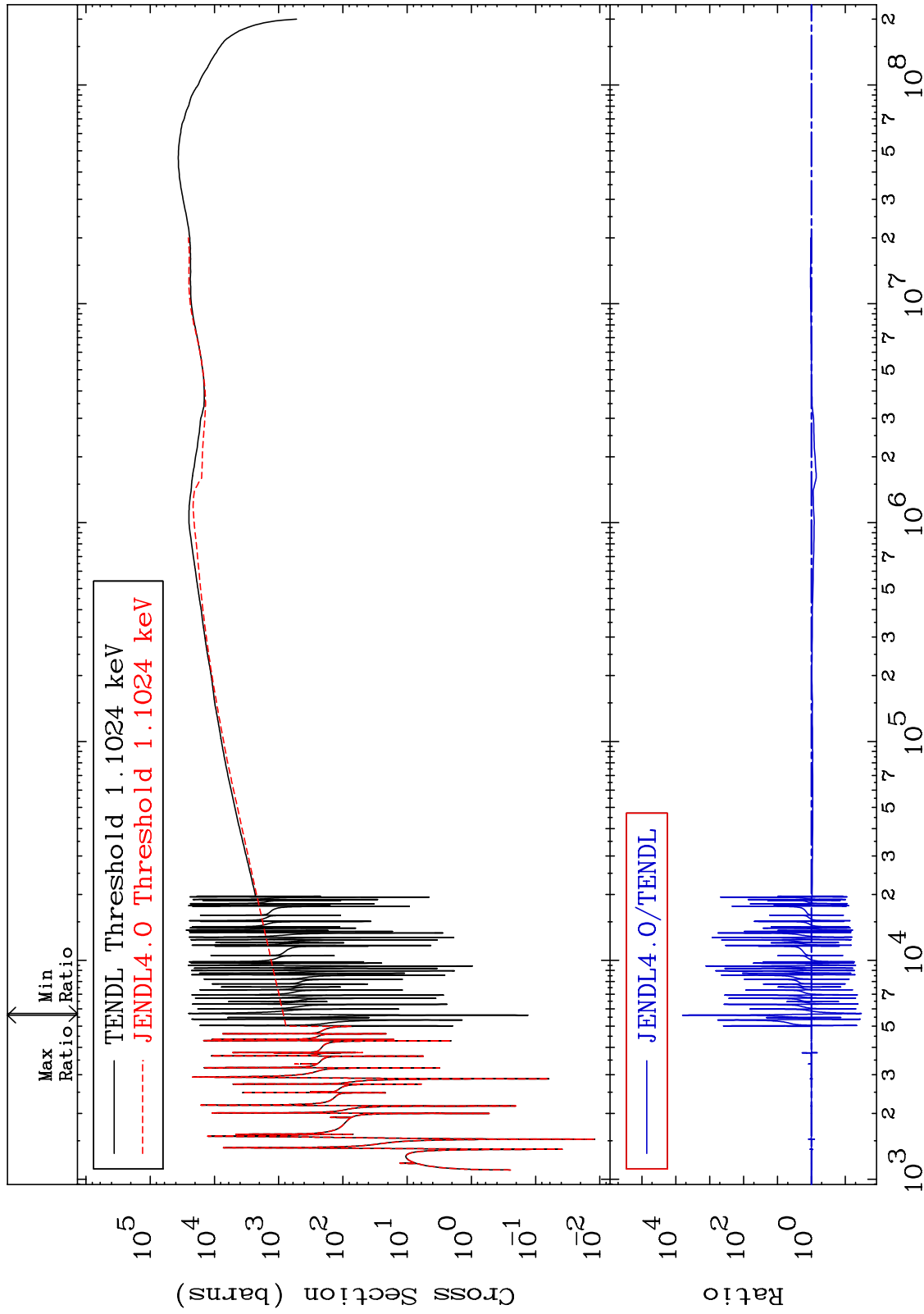
MAT 7049 Dpa total (eV-barns) 70-Yb-176
 Cross Section -96.51 To 9999. %



MAT 7049

Dpa elastic (mt2)
Cross Section

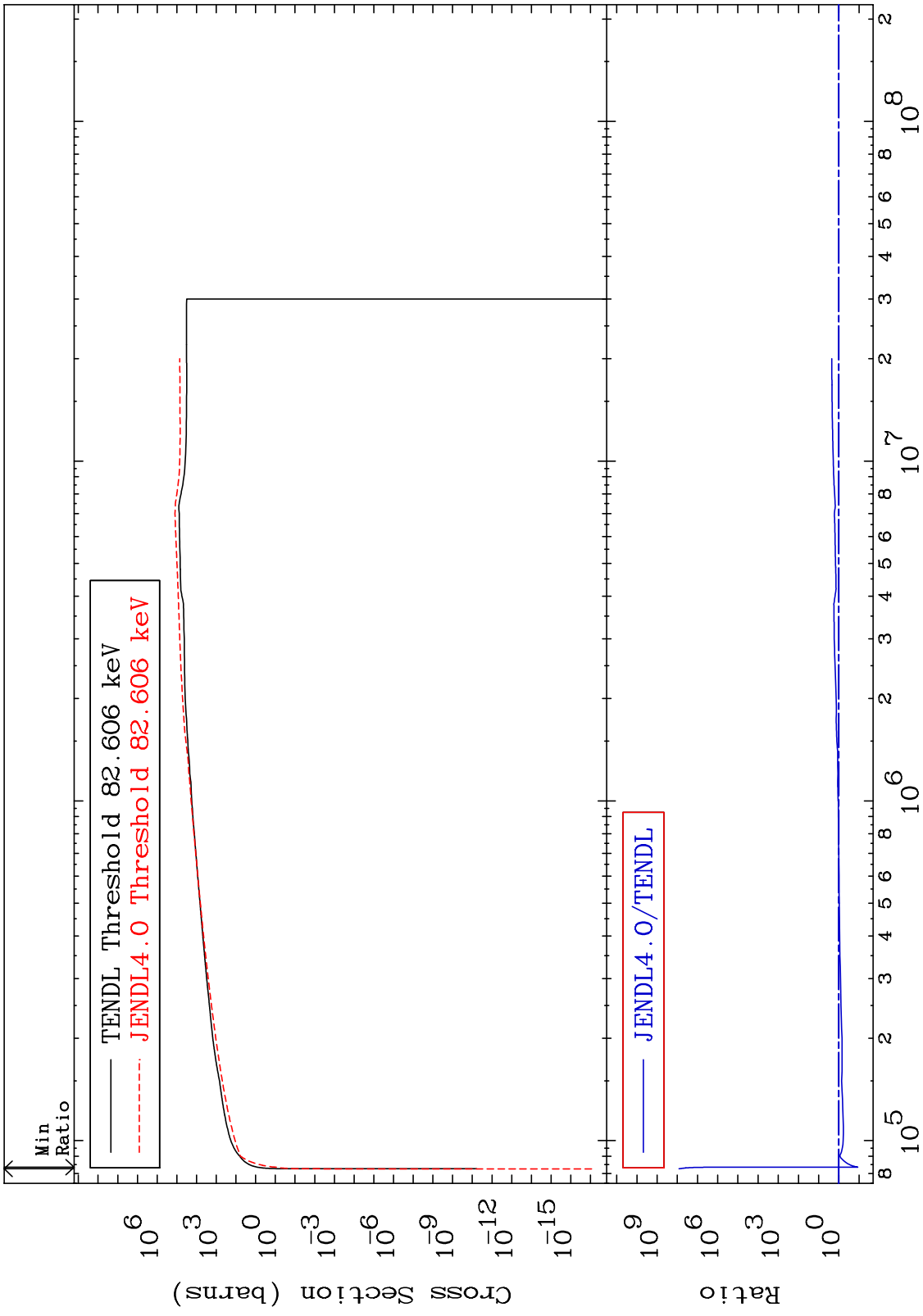
70-Yb-176
-96.62 To 9999. %



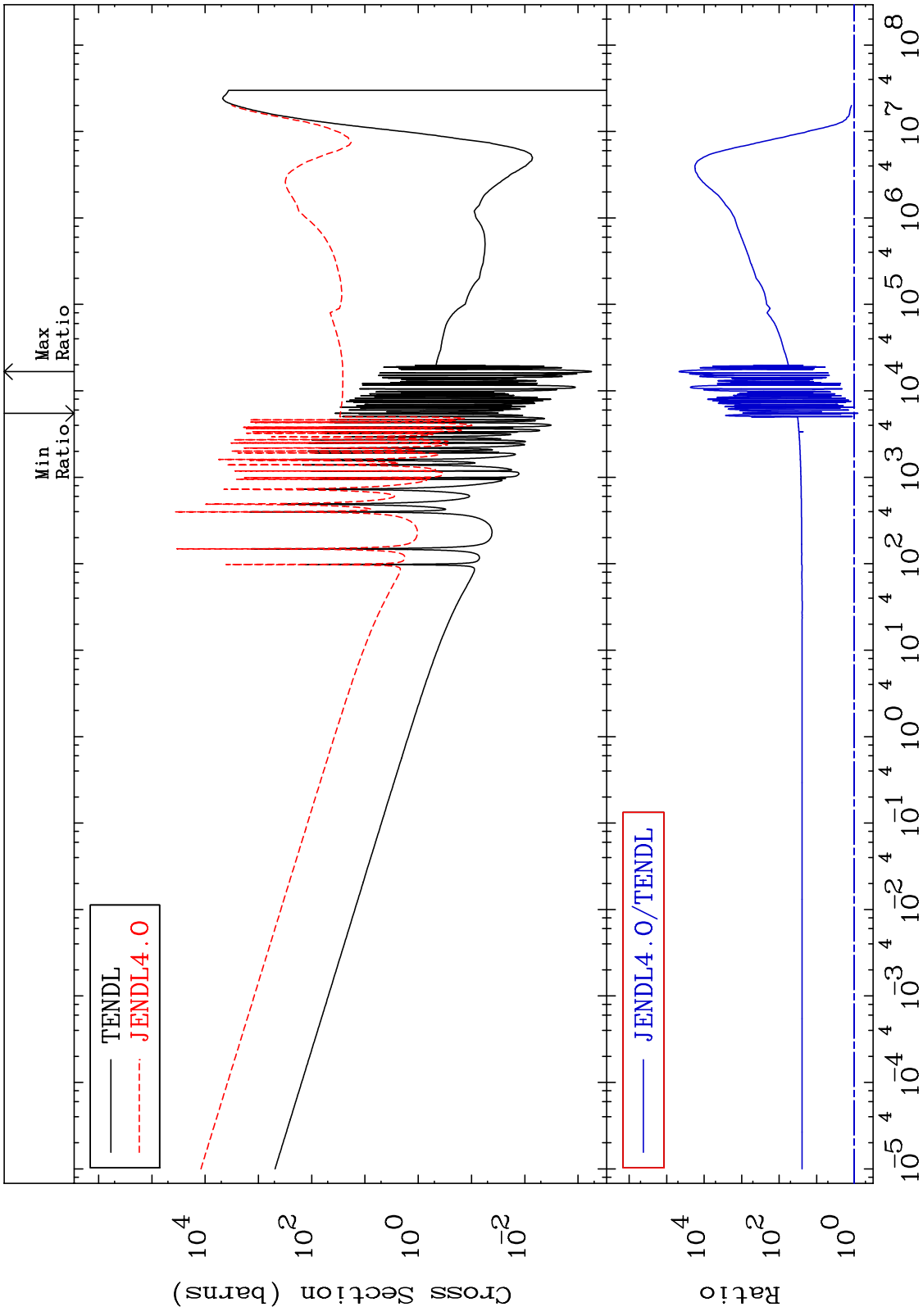
43

Incident Energy (eV)

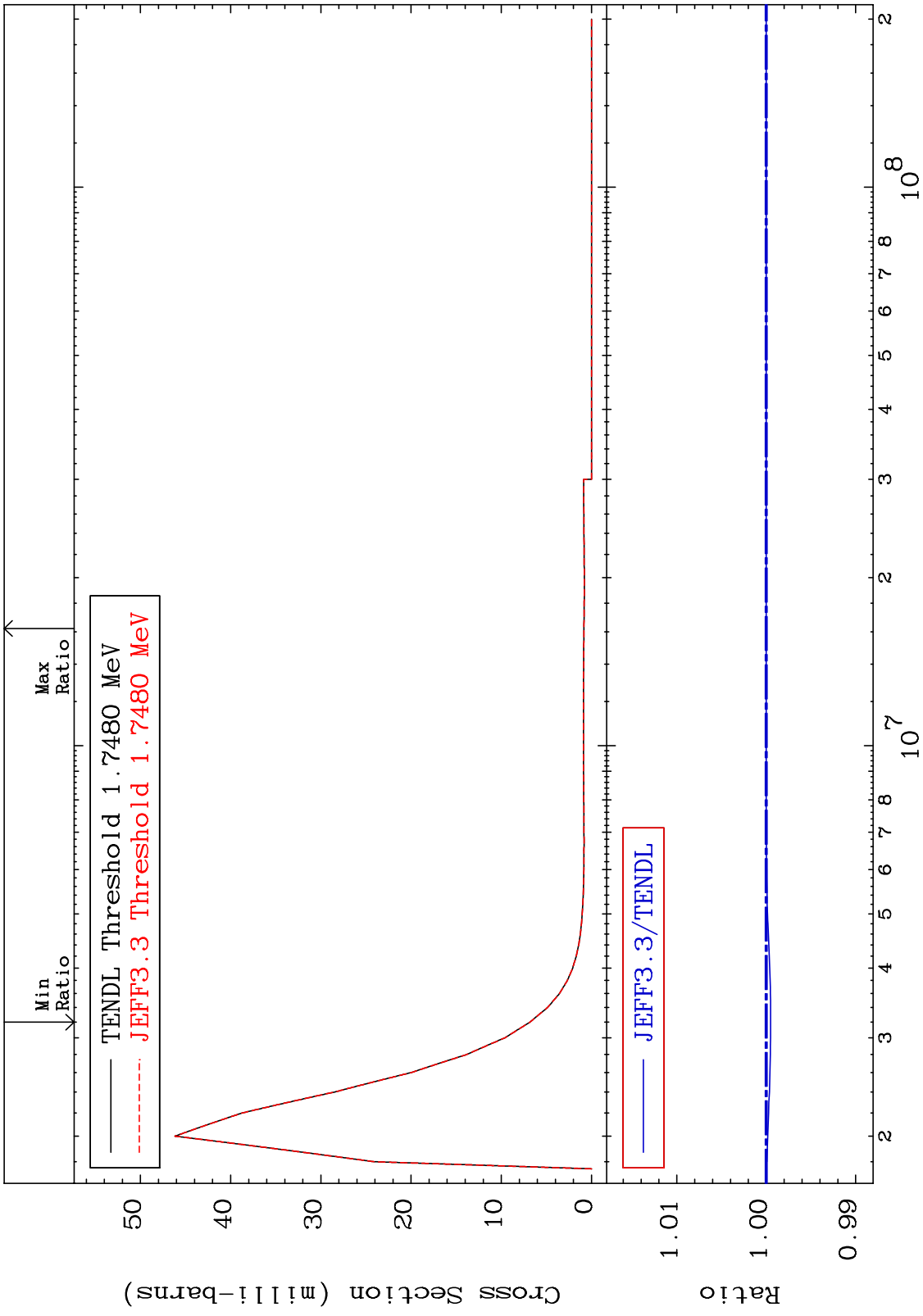
70-Yb-176



MAT 7049 Dpa disappearance (mt102 -120) 70-Yb-176
 Cross Section -20.30 To 9999. %

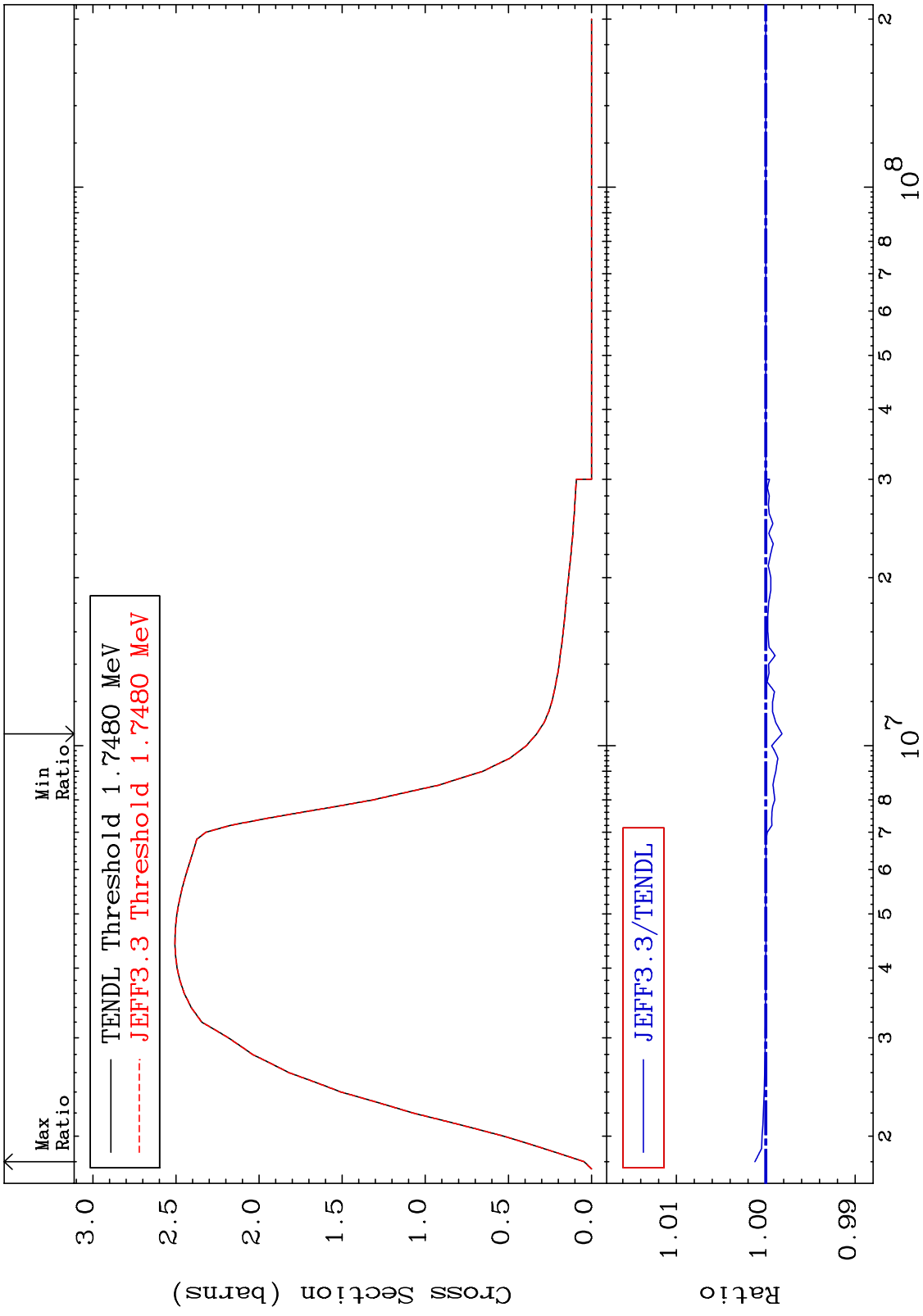


MAT 7049 MT= 80 (n,n') Level Cross Section 70-Yb-176 -0.049 To 0.000 %



46 70-Yb-176 Incident Energy (eV)

MAT 7049 70-Yb-176
-0.180 To 0.122 %
 (n, n') Continuum
 Cross Section



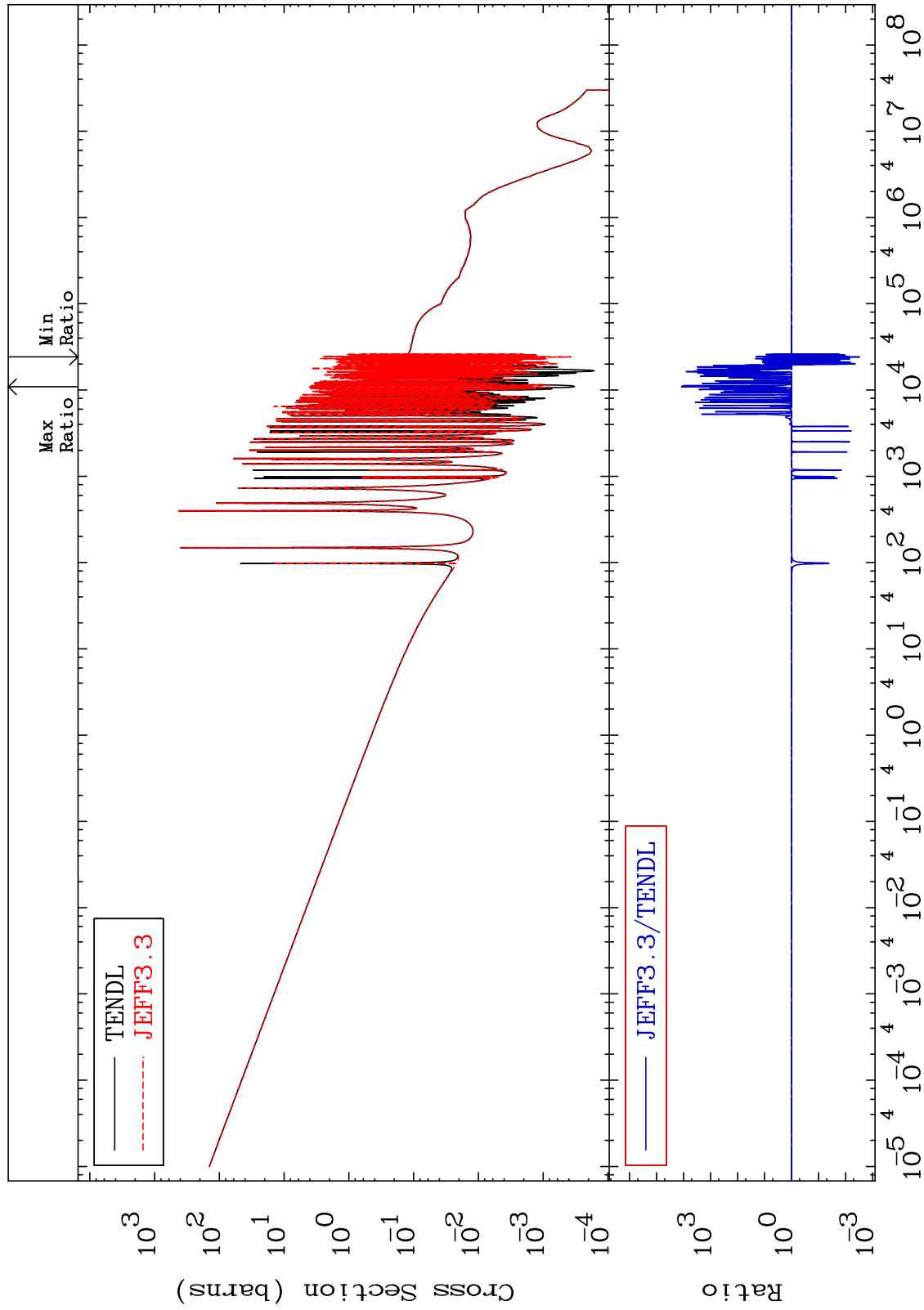
MAT 7049

(n, γ)

70-Yb-176

Cross Section

-99.70 To 9999. %



48

Incident Energy (eV)

70-Yb-176

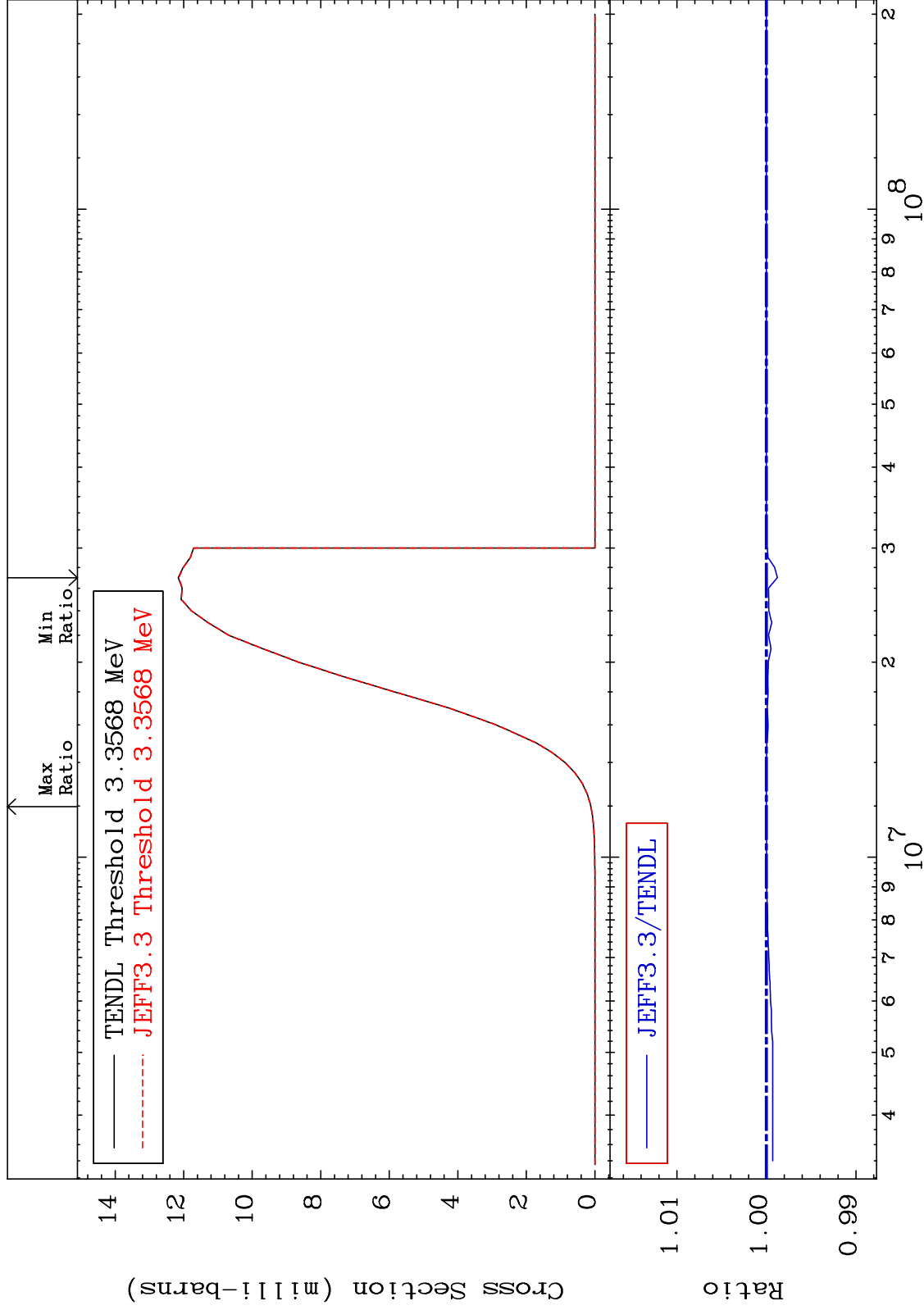
MAT 7049

(n,p)

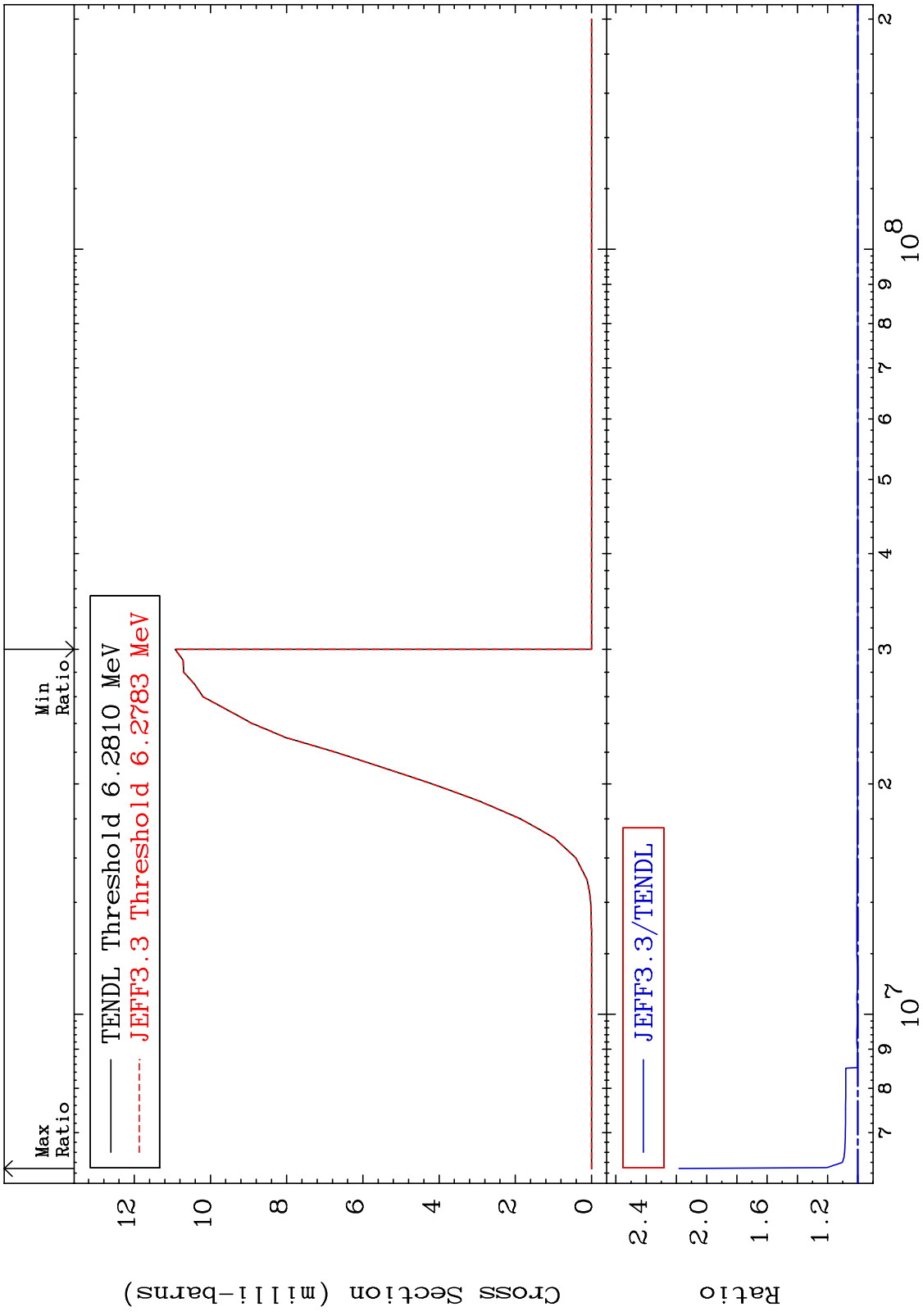
70-Yb-176

Cross Section

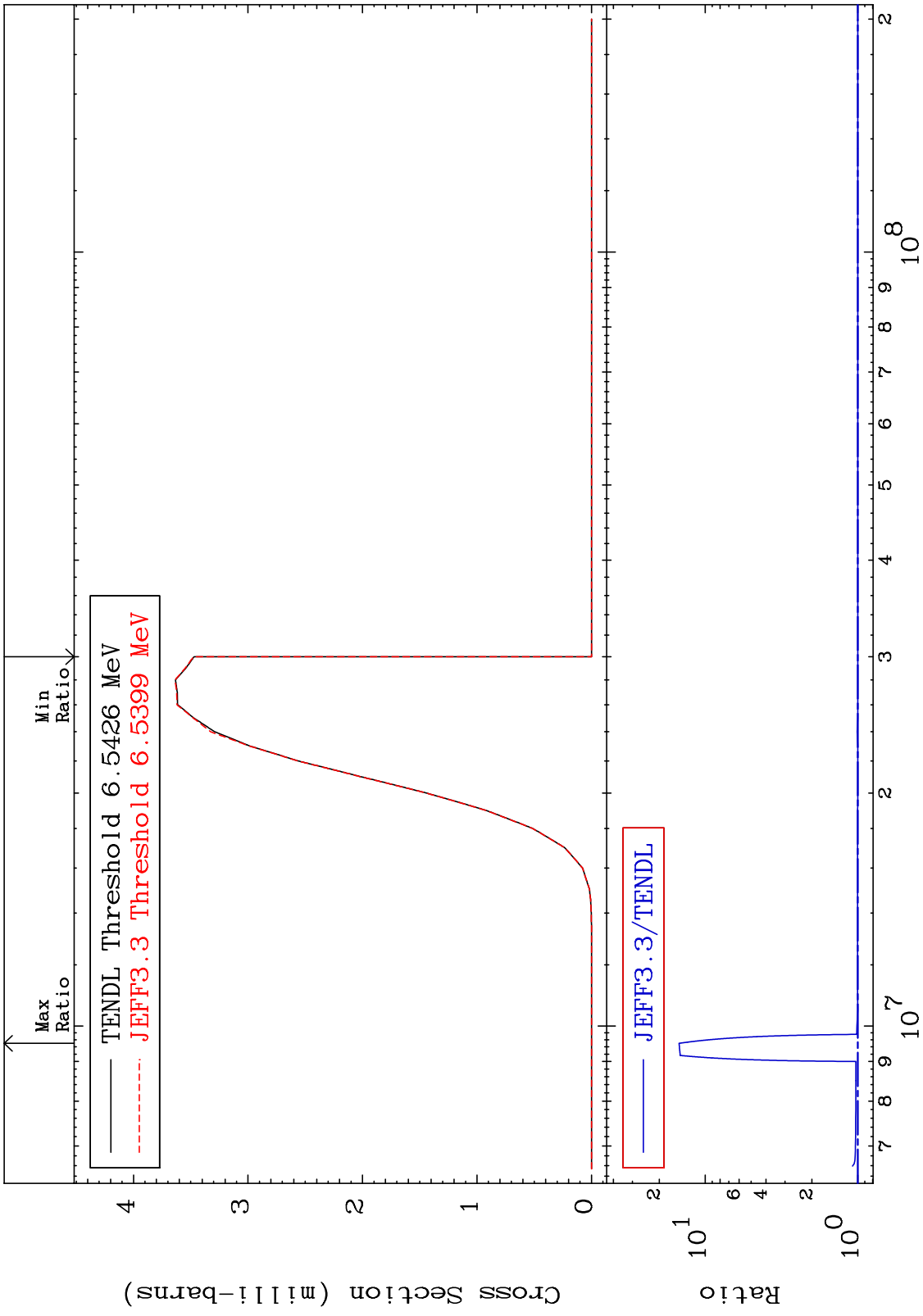
-0.122 To 0.000 %



MAT 7049 (n,d) Cross Section 70-Yb-176 To 118.2 %

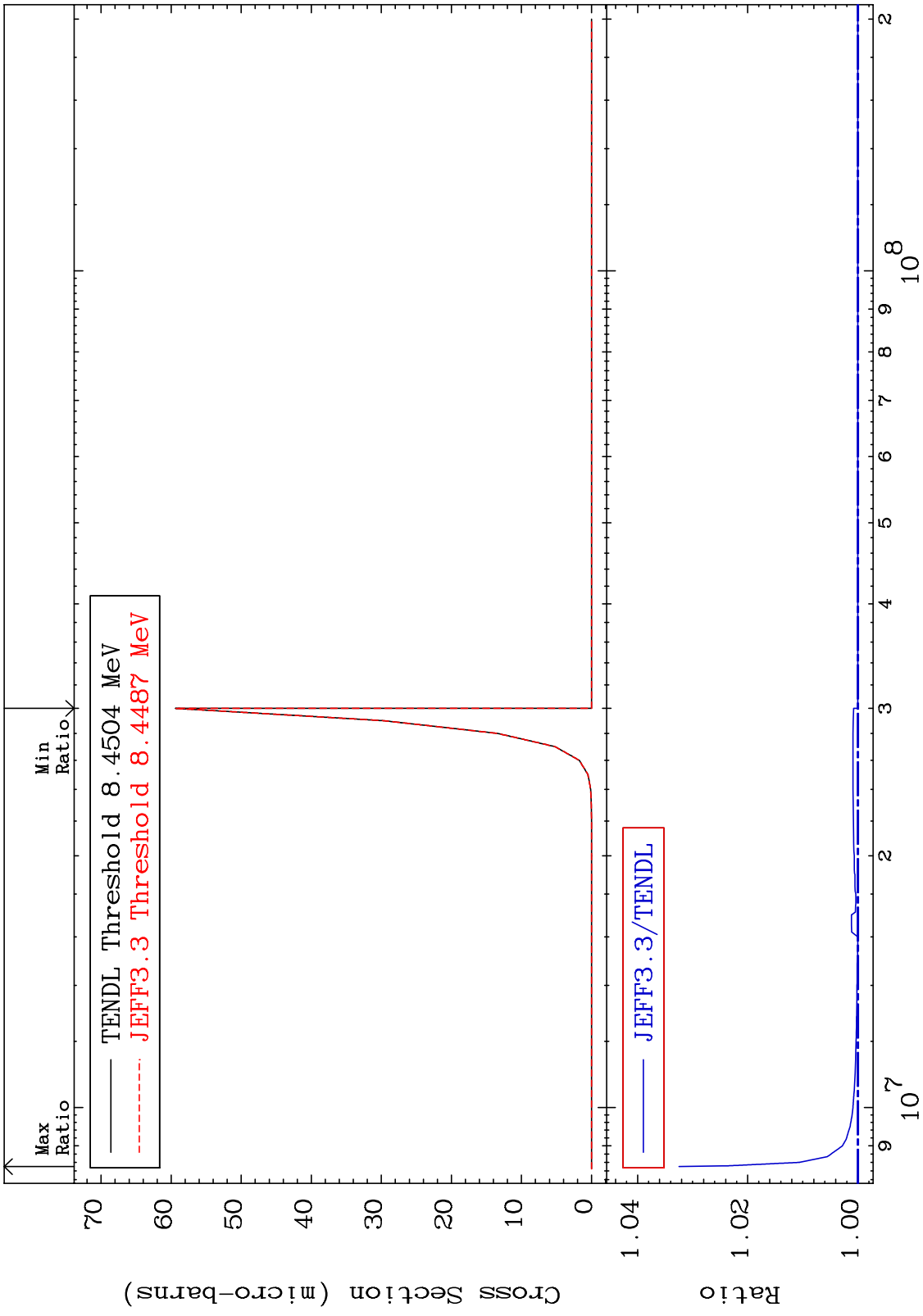


MAT 7049 (n,t) 70-Yb-176
Cross Section 0.000 To 1384. %



51 Incident Energy (eV) 70-Yb-176

MAT 7049 (n, He-3) Cross Section 70-Yb-176 To 3.247 %



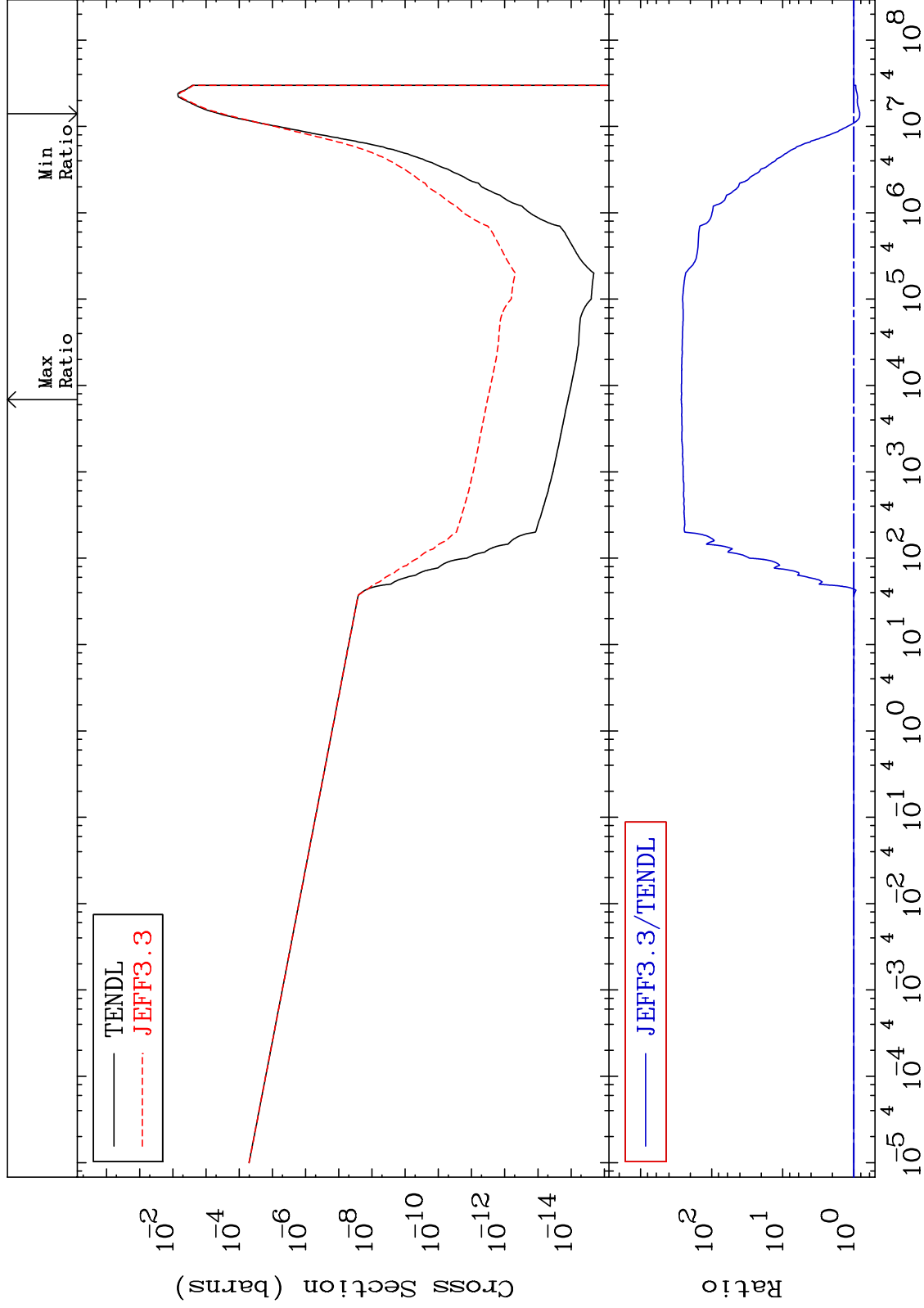
MAT 7049

(n, α)

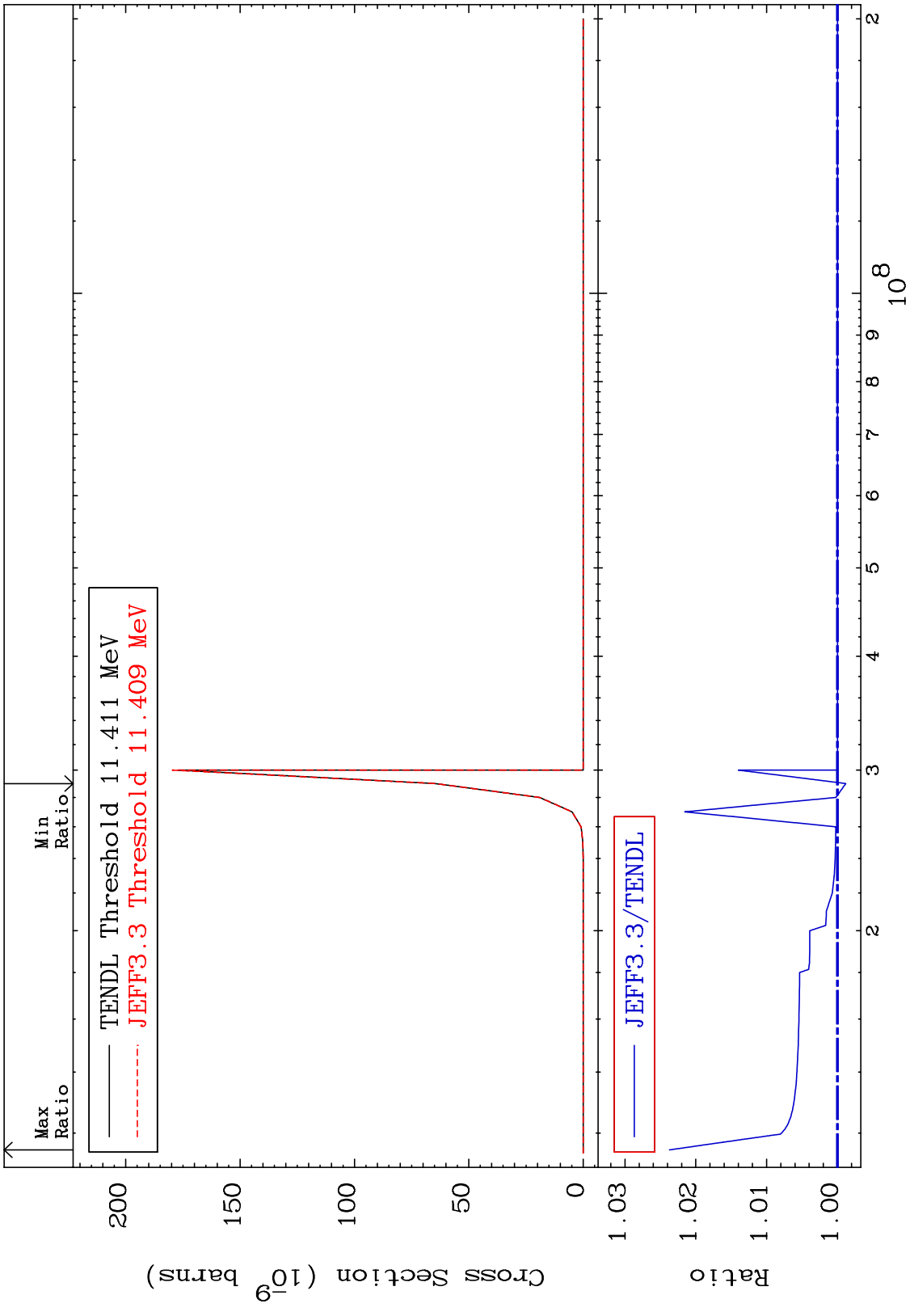
70-Yb-176

Cross Section

-17.41 To 9999. %



MAT 7049 (n,2p) Cross Section 70-Yb-176 -0.117 To 2.372 %



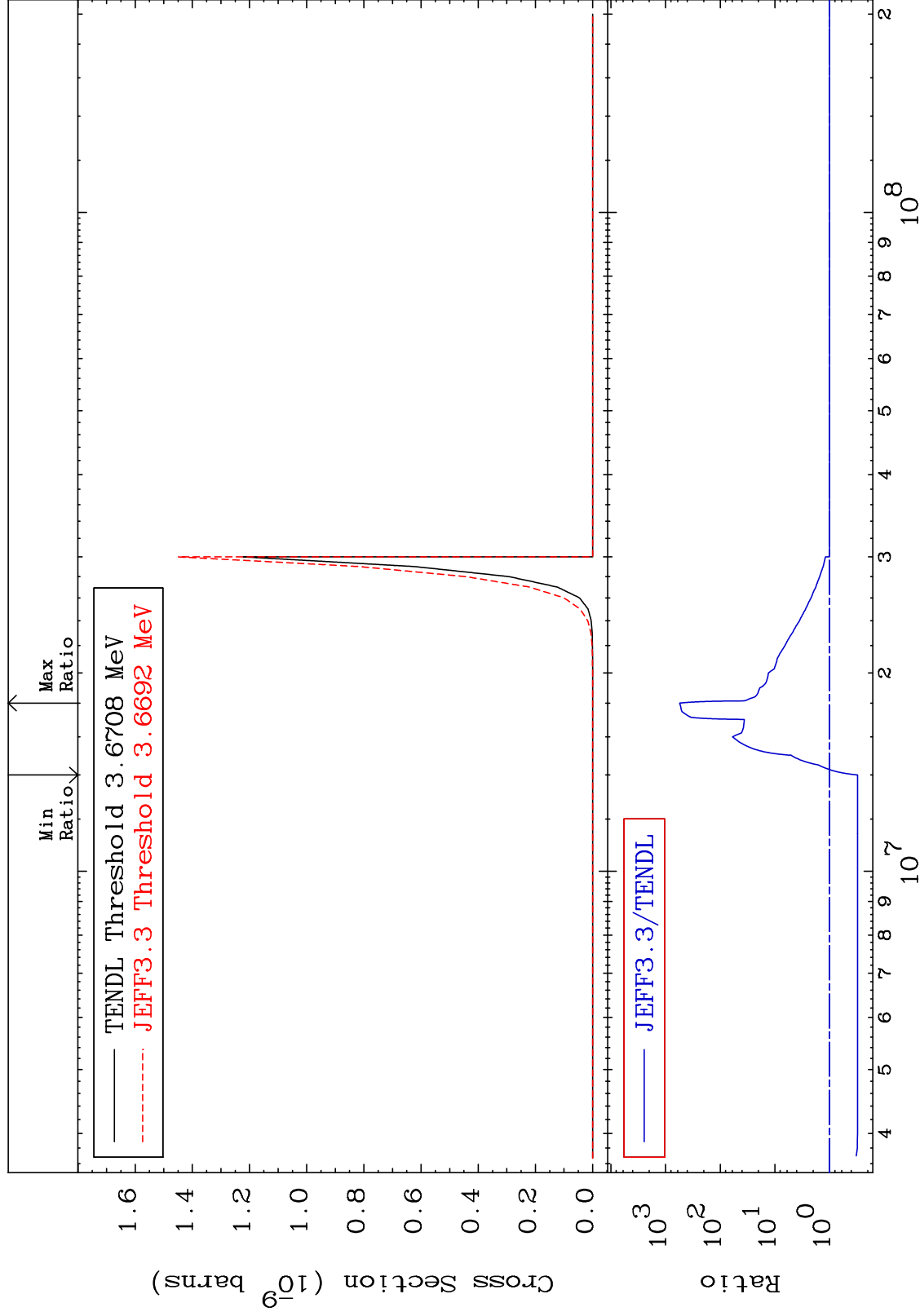
MAT 7049

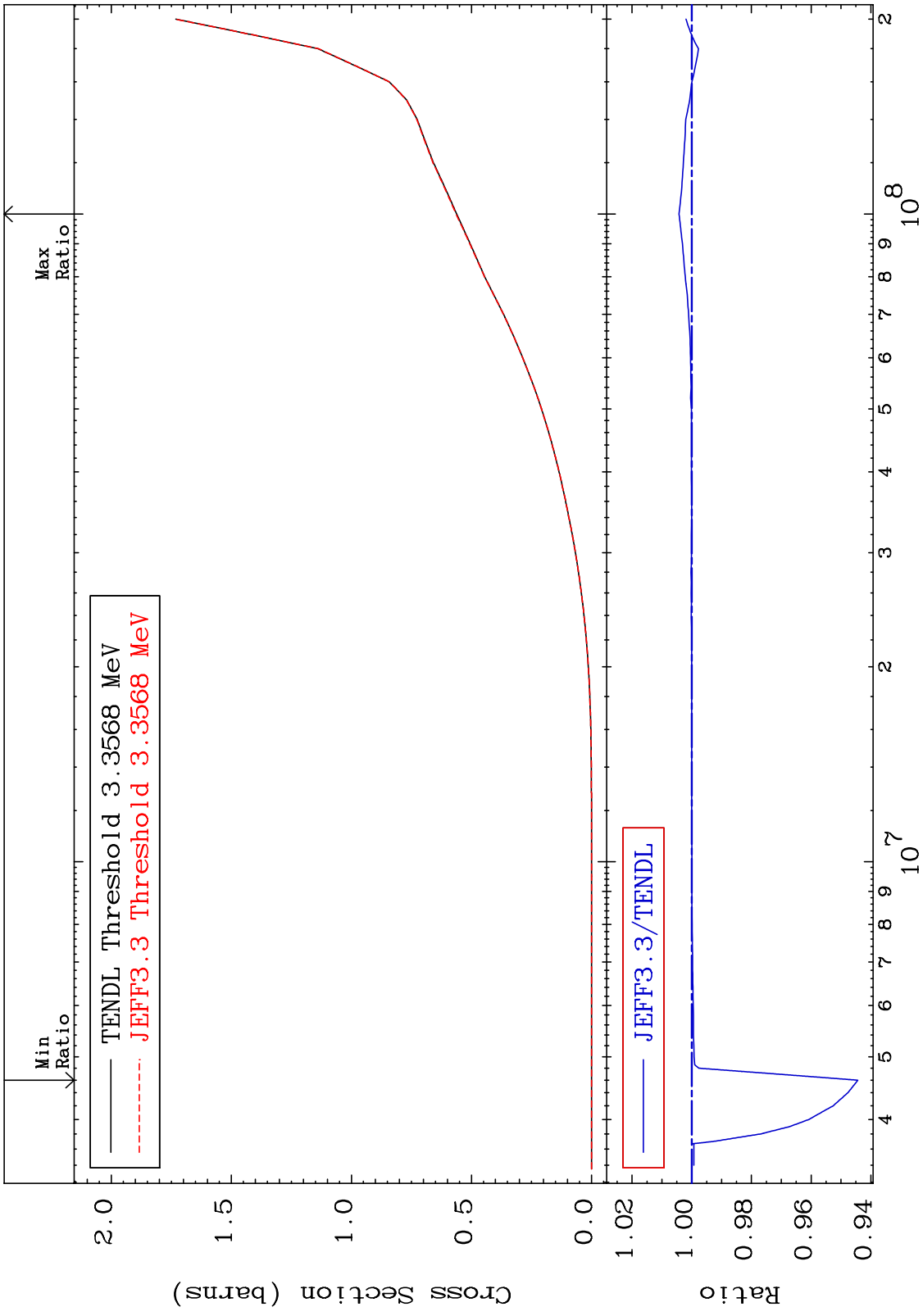
(n,p) α

70-Yb-176

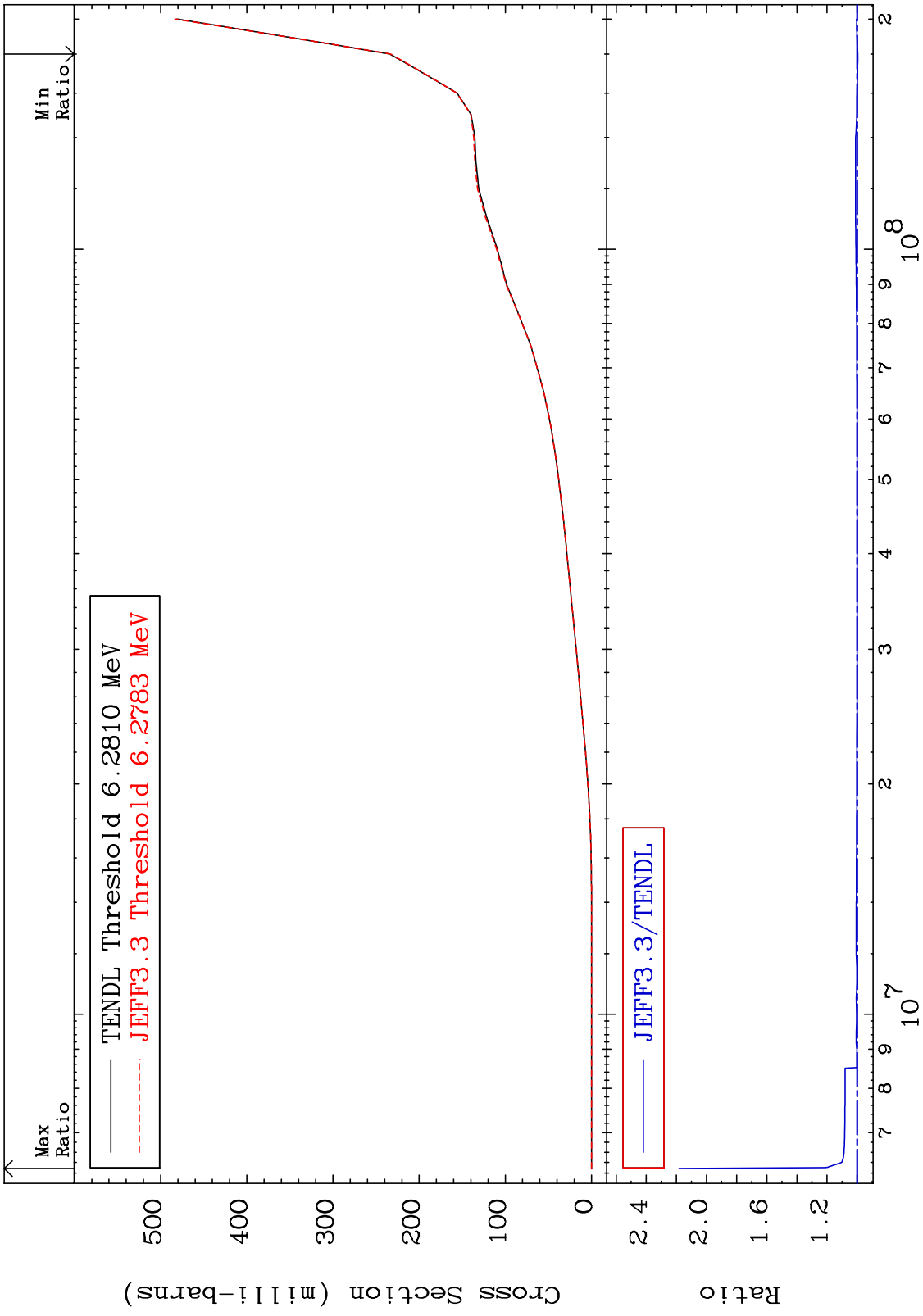
-69.33 To 9999. %

Cross Section

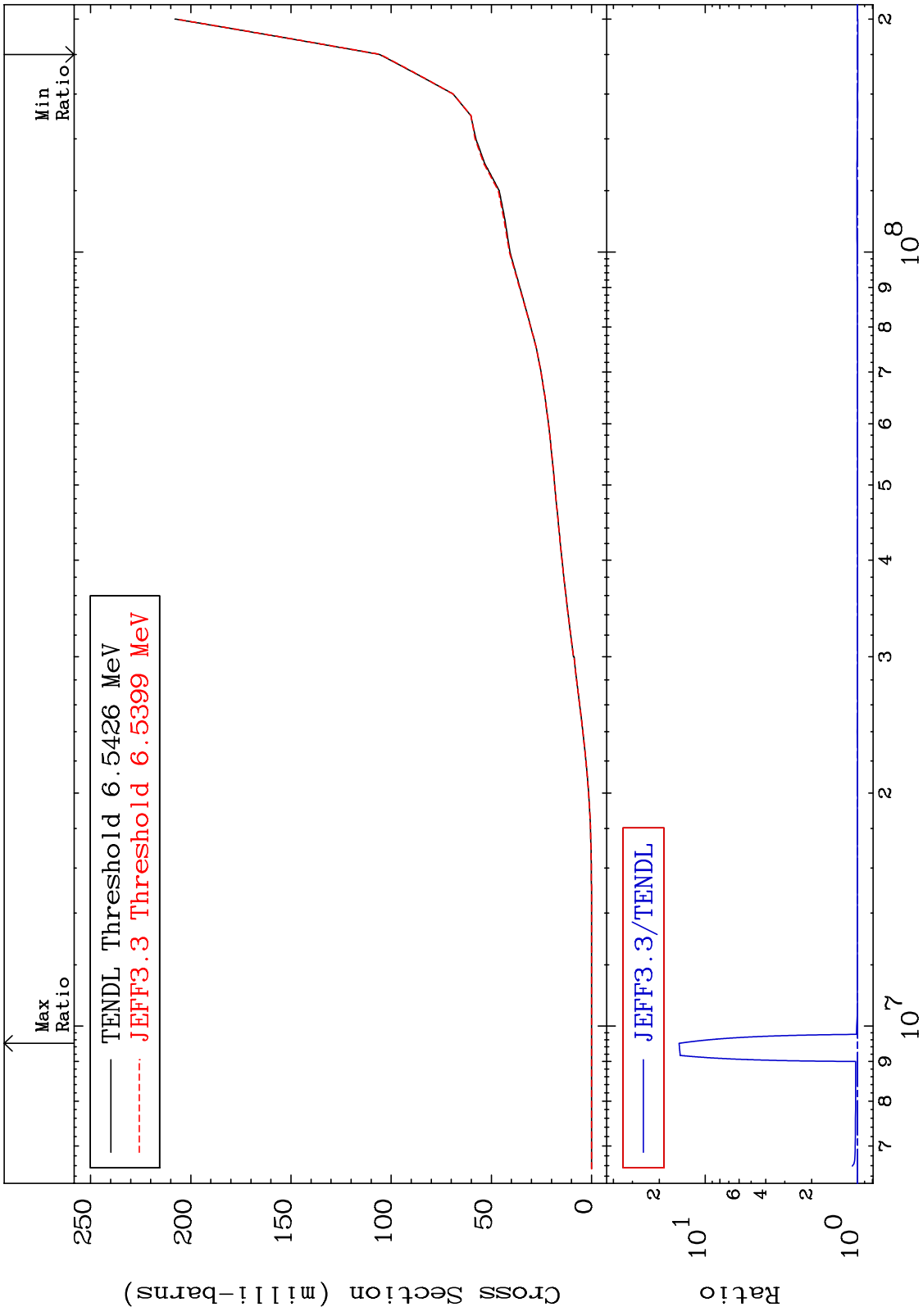




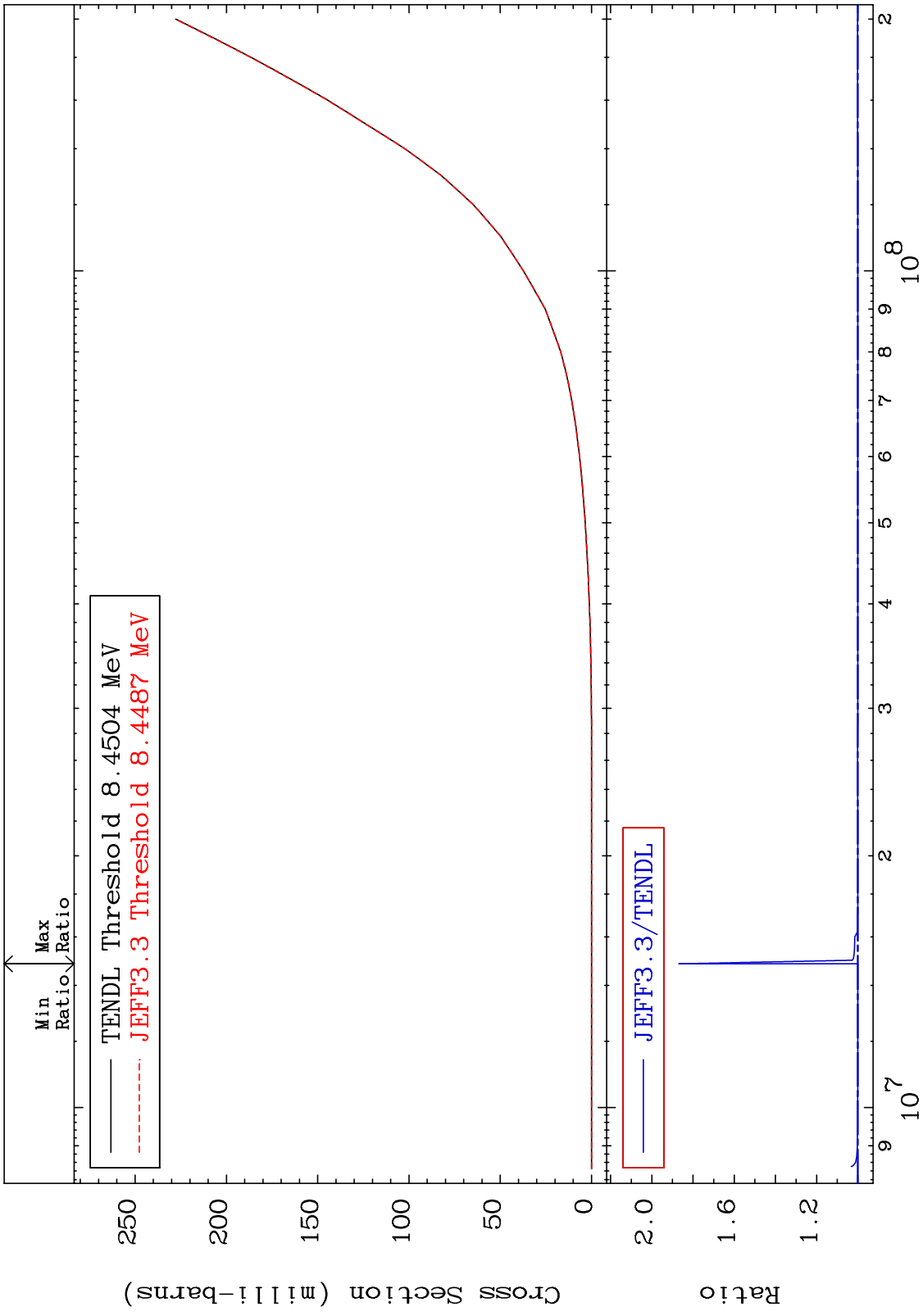
MAT 7049 Deuterium Production Cross Section 70-Yb-176 -0.435 To 118.2 %



MAT 7049 Tritium Production Cross Section 70-Yb-176
 -0.344 To 1384. %



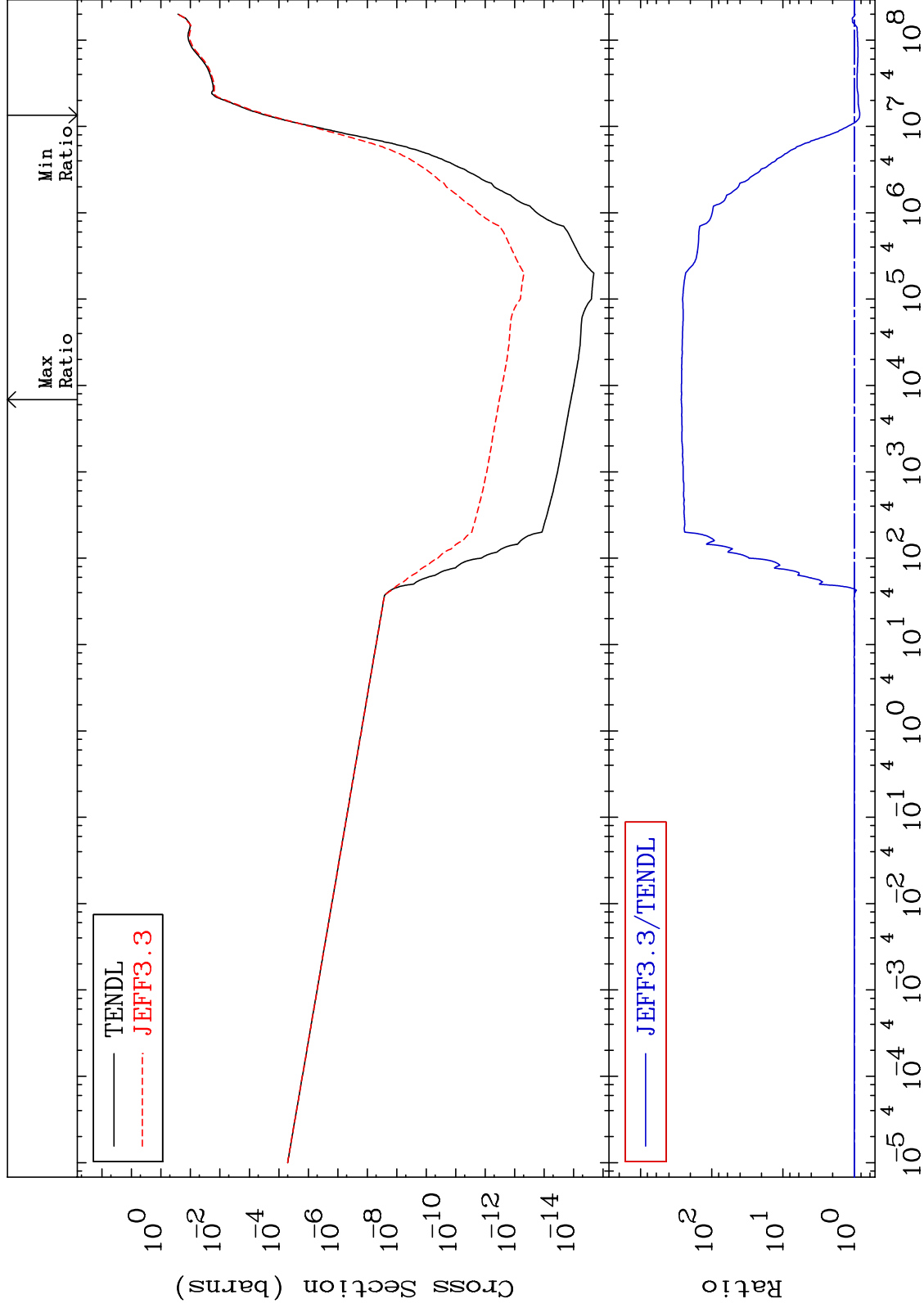
MAT 7049 He-3 Production Cross Section 70-Yb-176
 0.011 To 86.79 %



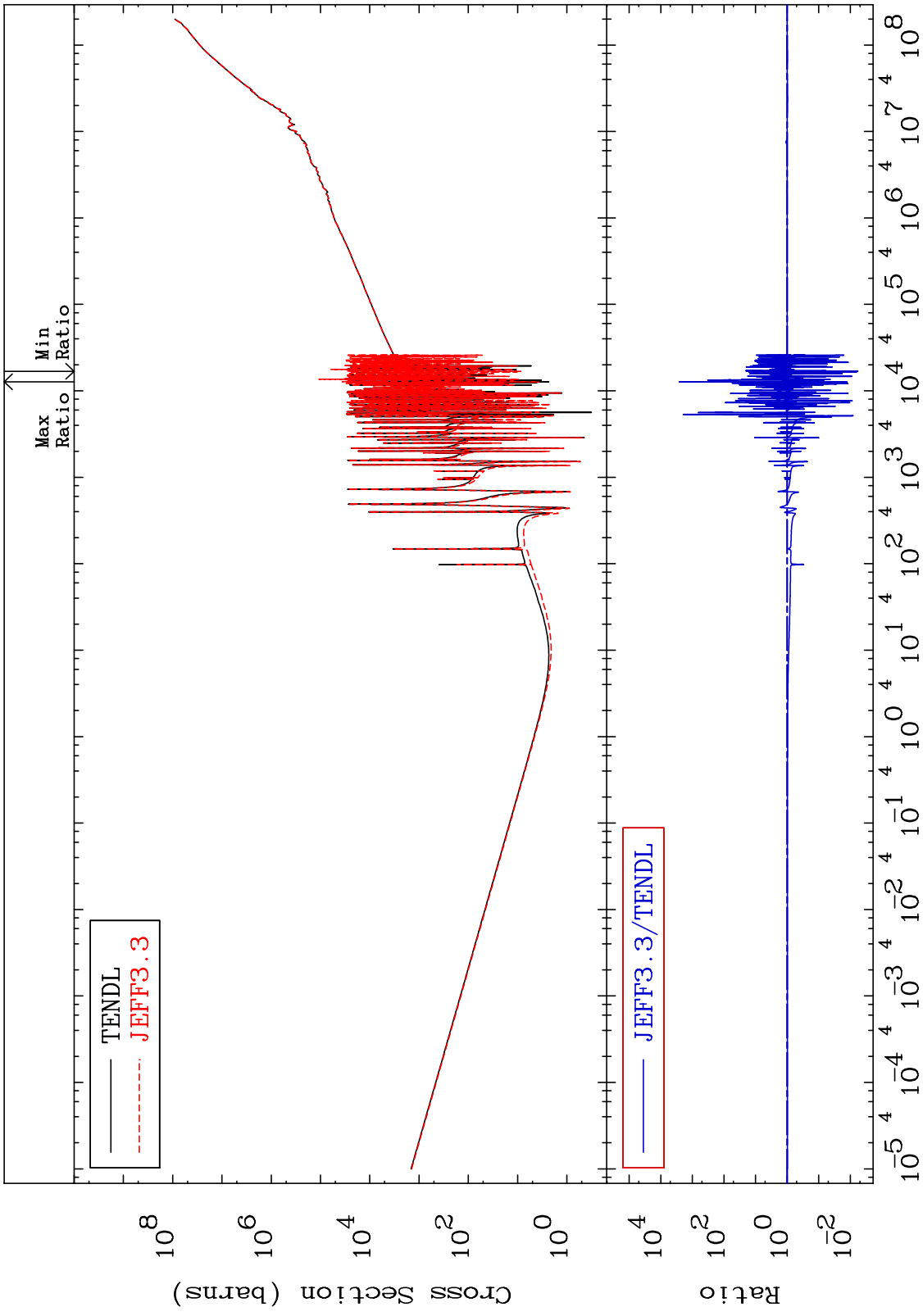
MAT 7049

He-4 Production
Cross Section

70-Yb-176
-16.58 To 9999. %



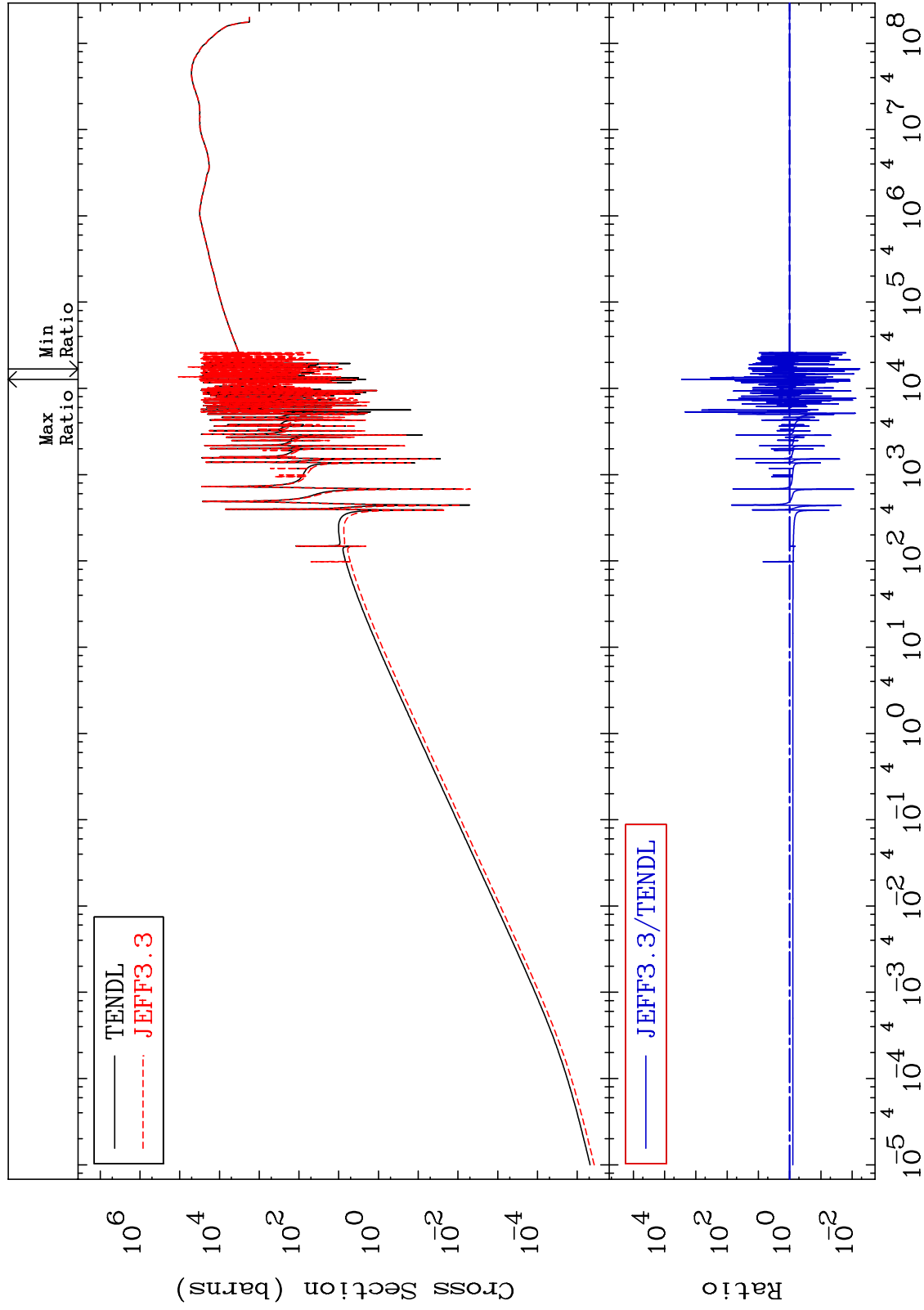
MAT 7049 Kerma total (eV-barns) 70-Yb-176
 Cross Section -99.42 To 9999. %



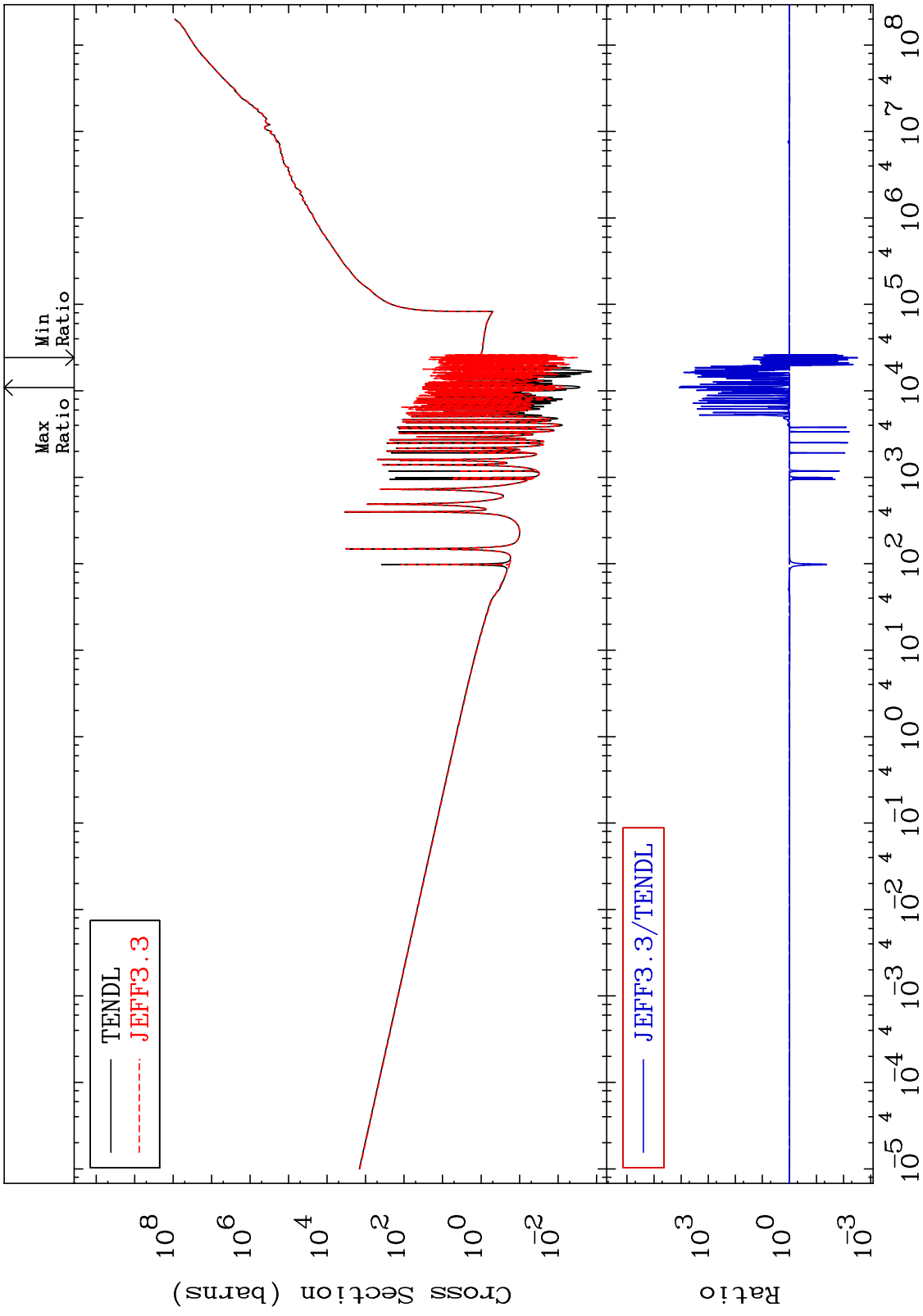
MAT 7049

Kerma elastic
Cross Section

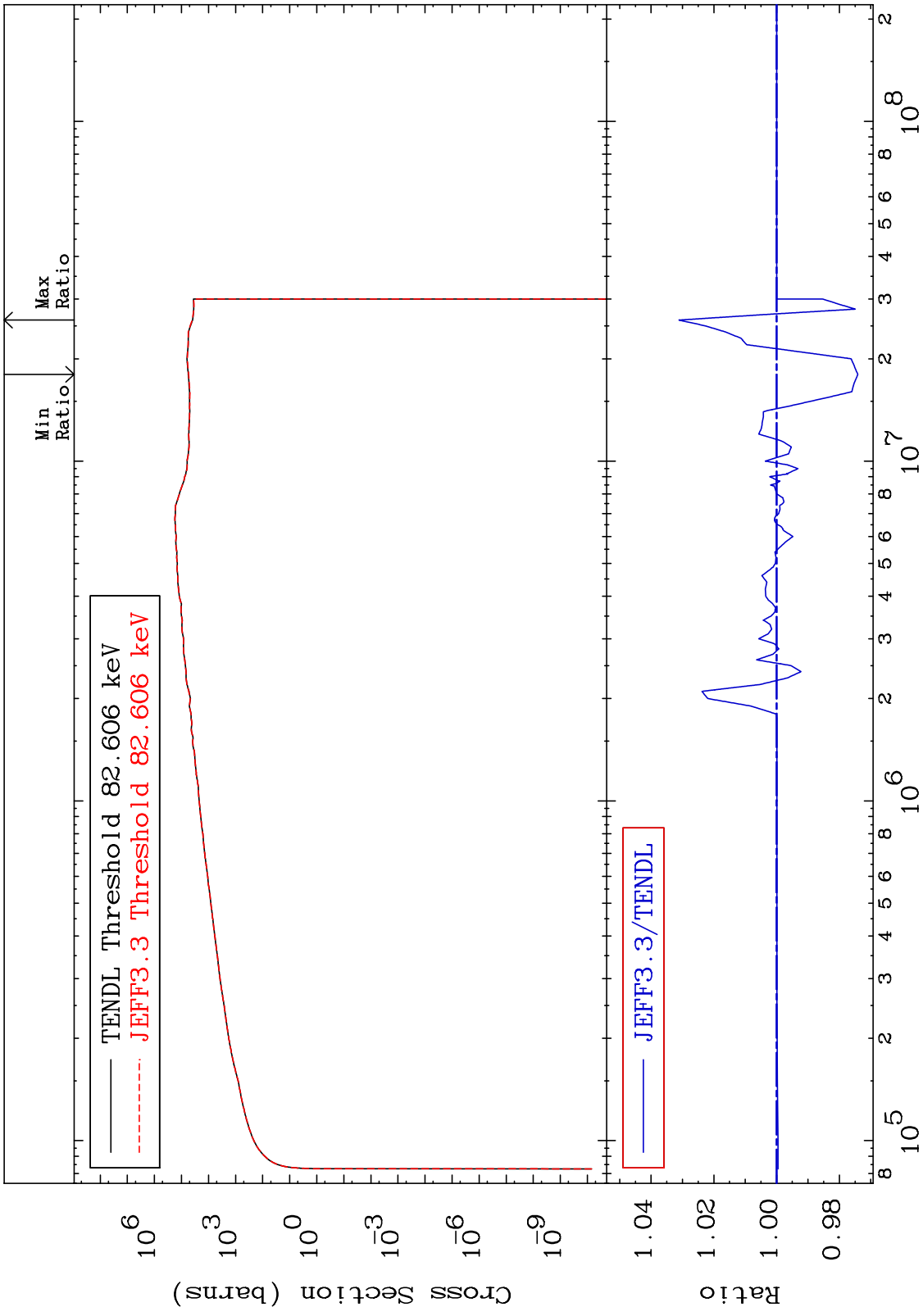
70-Yb-176
-99.43 To 9999. %



MAT 7049 Kerma non-elastic (all but mt2) 70-Yb-176
 Cross Section -99.70 To 9999. %



MAT 7049 Kerma inelastic (mt51-91) 70-Yb-176
 Cross Section -2.588 To 3.109 %

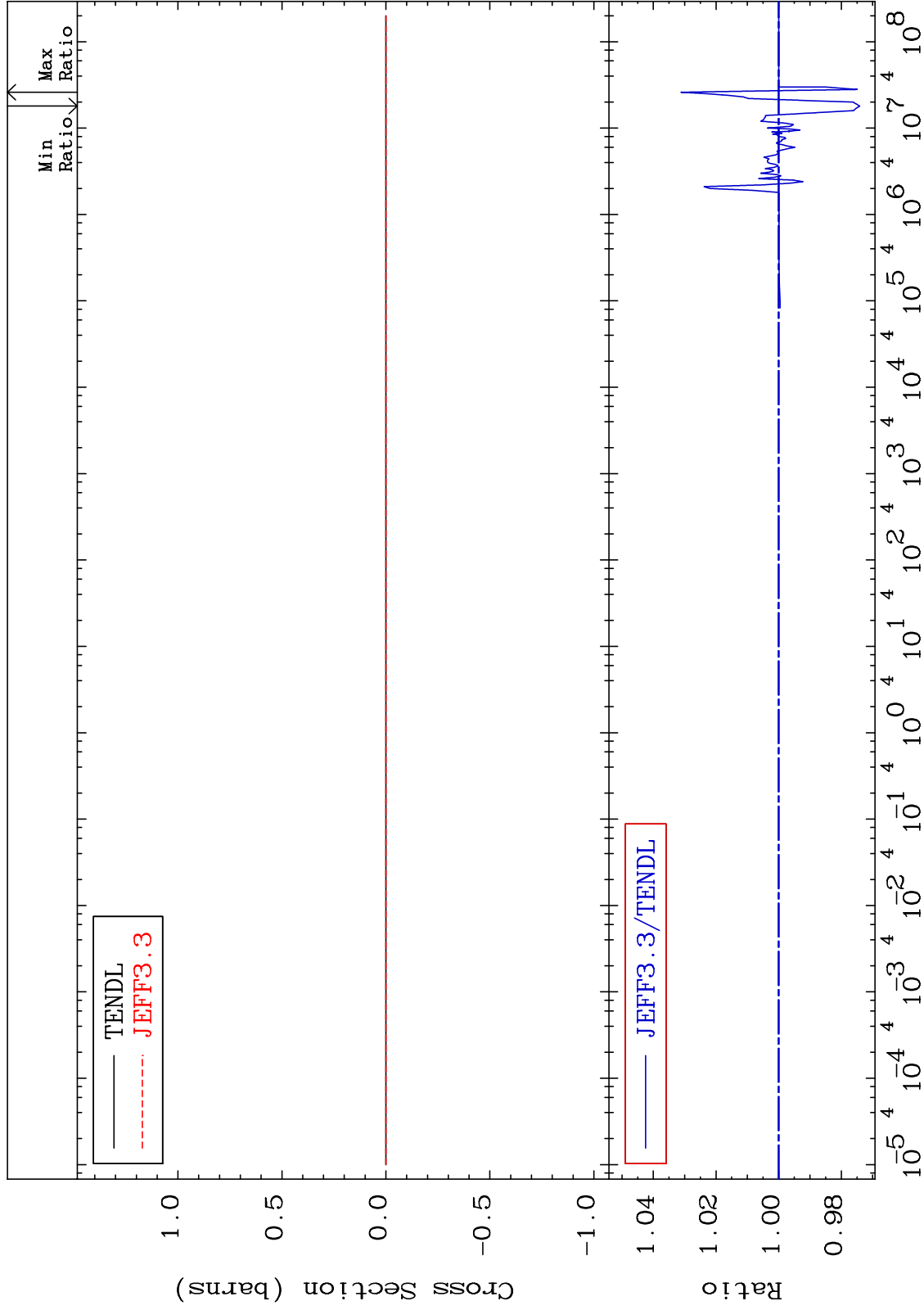


64 Incident Energy (eV) 70-Yb-176

MAT 7049

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

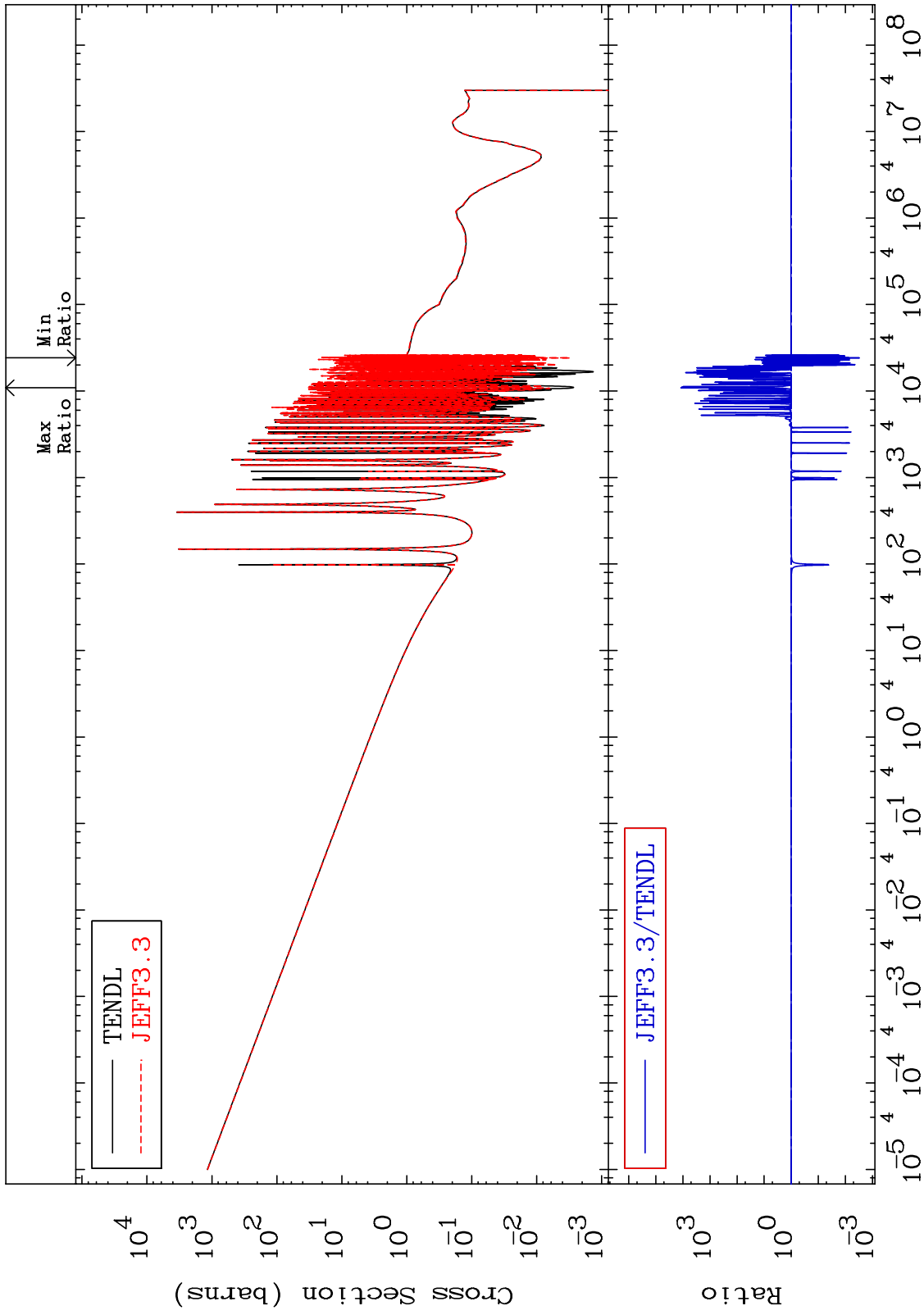
70-Yb-176
-2.588 To 3.109 %



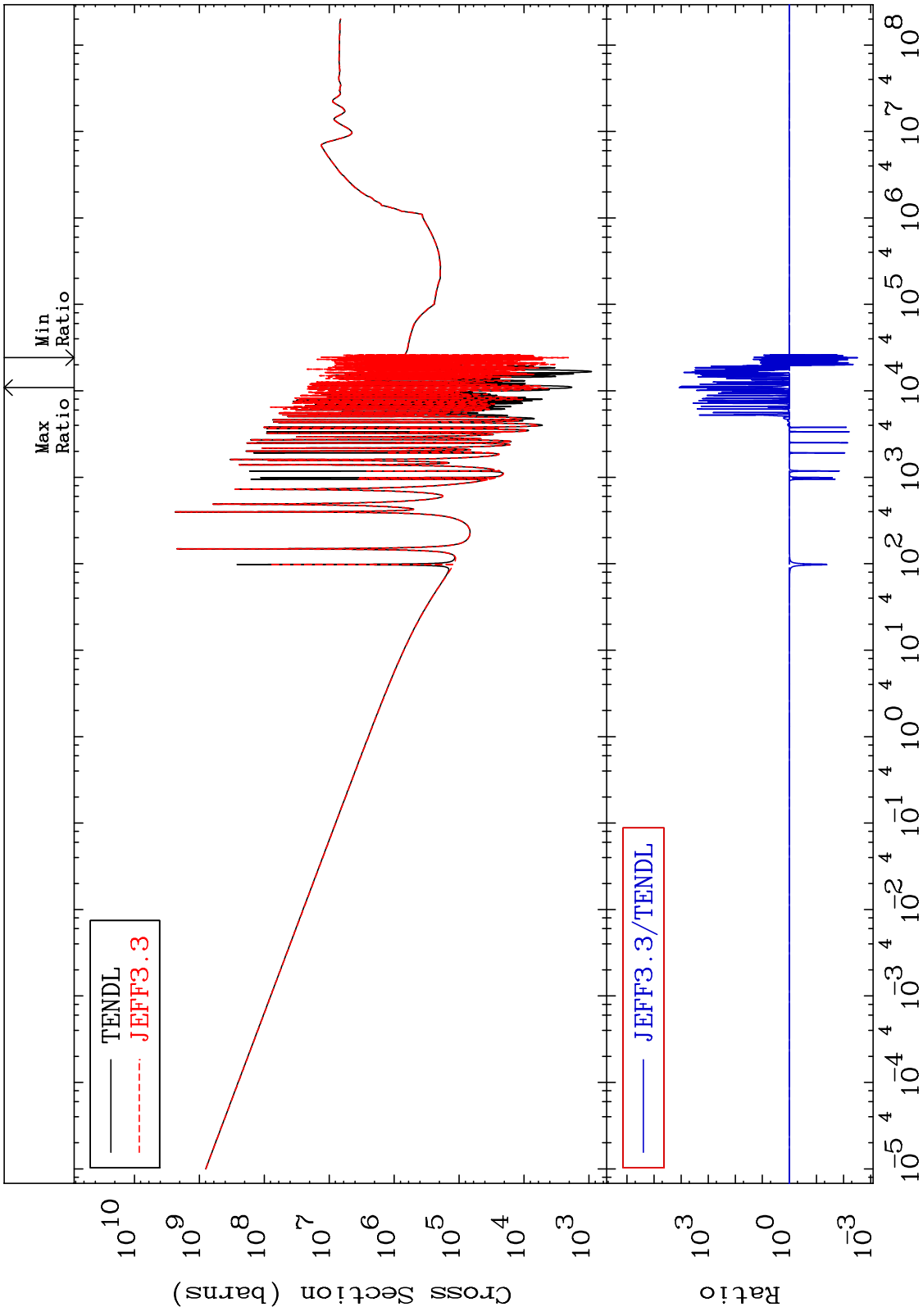
MAT 7049

Kerma capture (mt102)
Cross Section

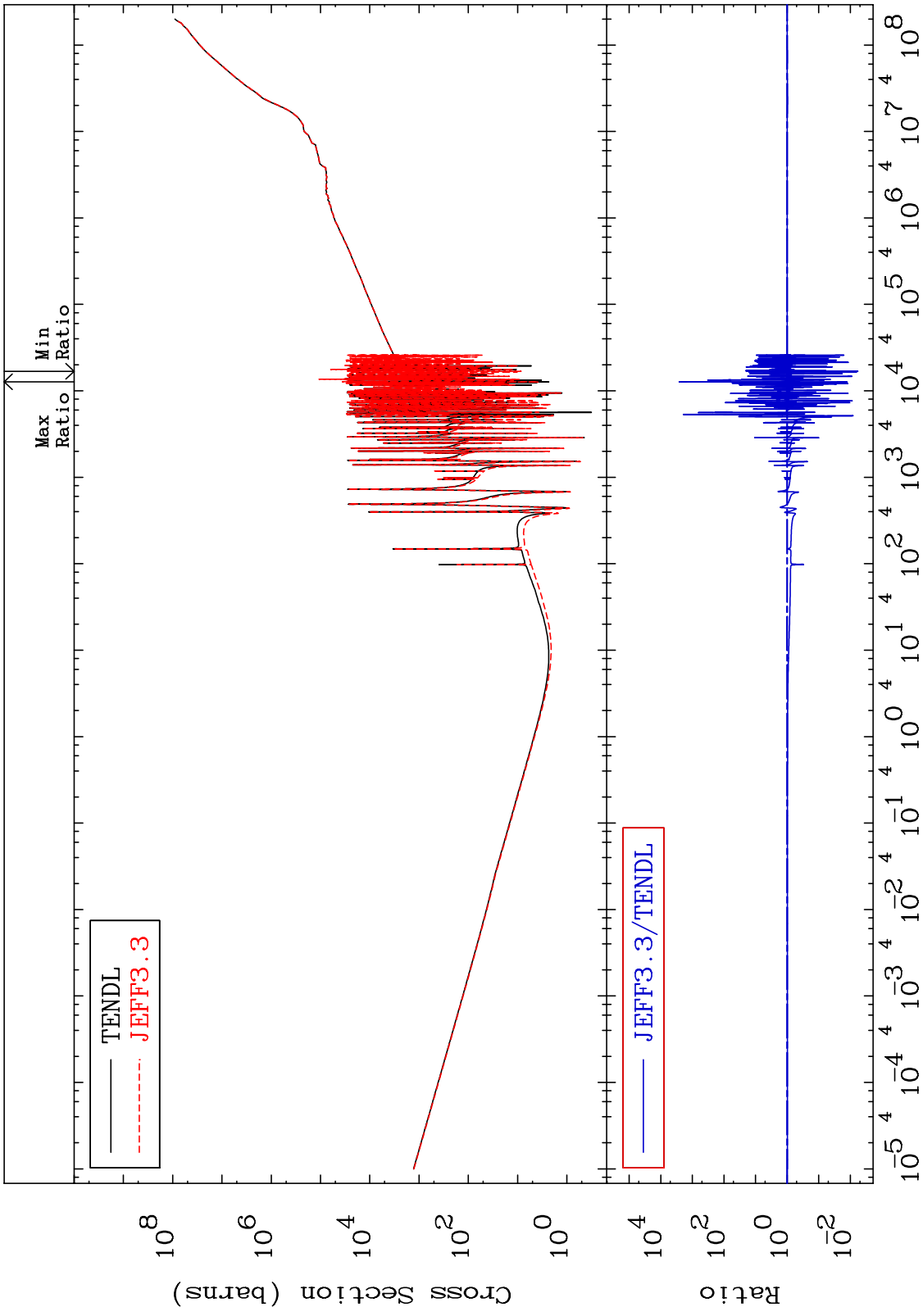
70-Yb-176
-99.70 To 9999. %



MAT 7049 Total photon (eV-barns) Cross Section 70-Yb-176 -99.70 To 9999. %



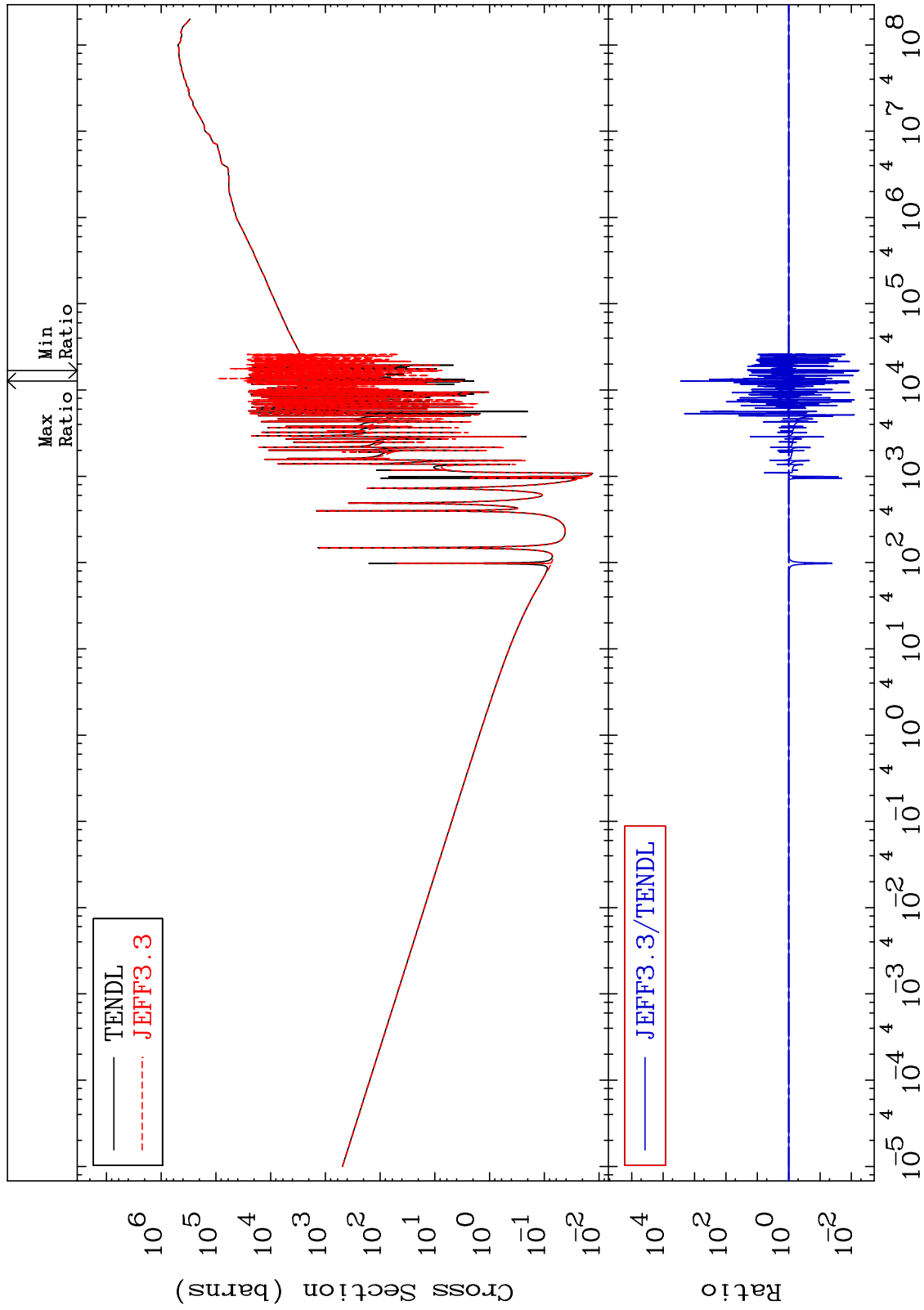
MAT 7049 Total kinematic kerma (high limit) 70-Yb-176
Cross Section -99.42 To 9999. %



MAT 7049

Dpa total (eV-barns)
Cross Section

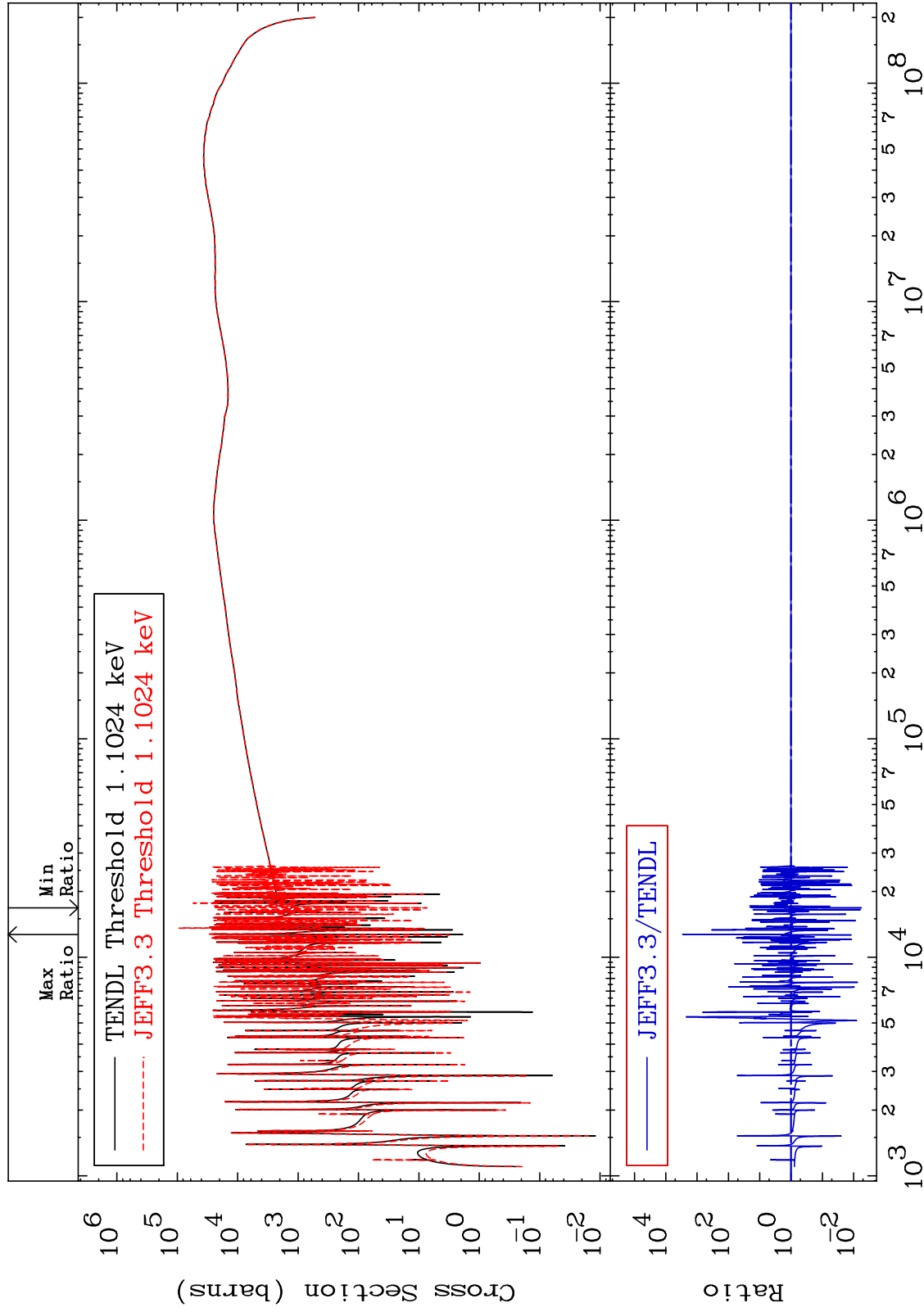
70-Yb-176
-99.43 To 9999. %



MAT 7049

Dpa elastic (mt2)
Cross Section

70-Yb-176
-99.43 To 9999. %

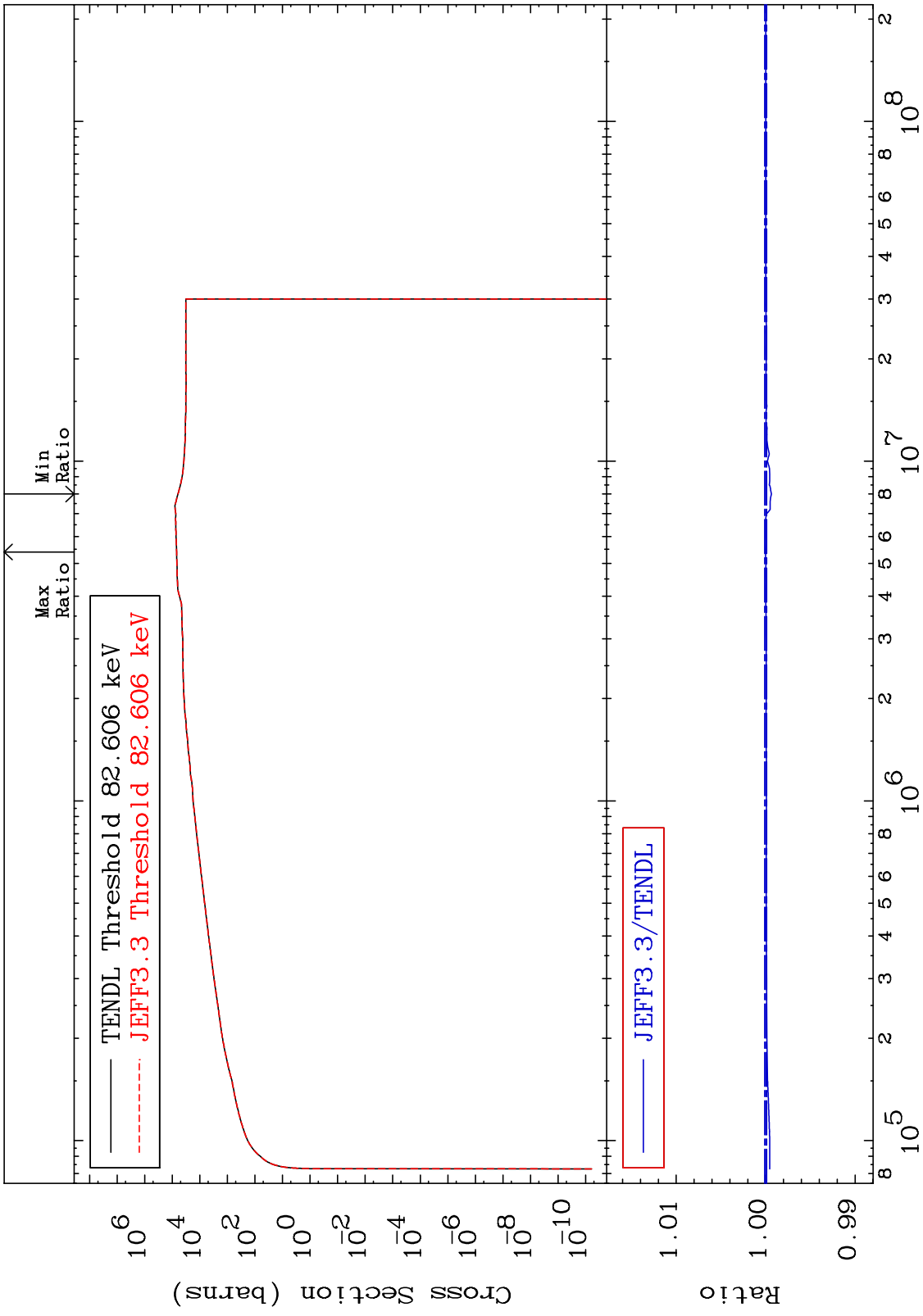


70

Incident Energy (eV)

70-Yb-176

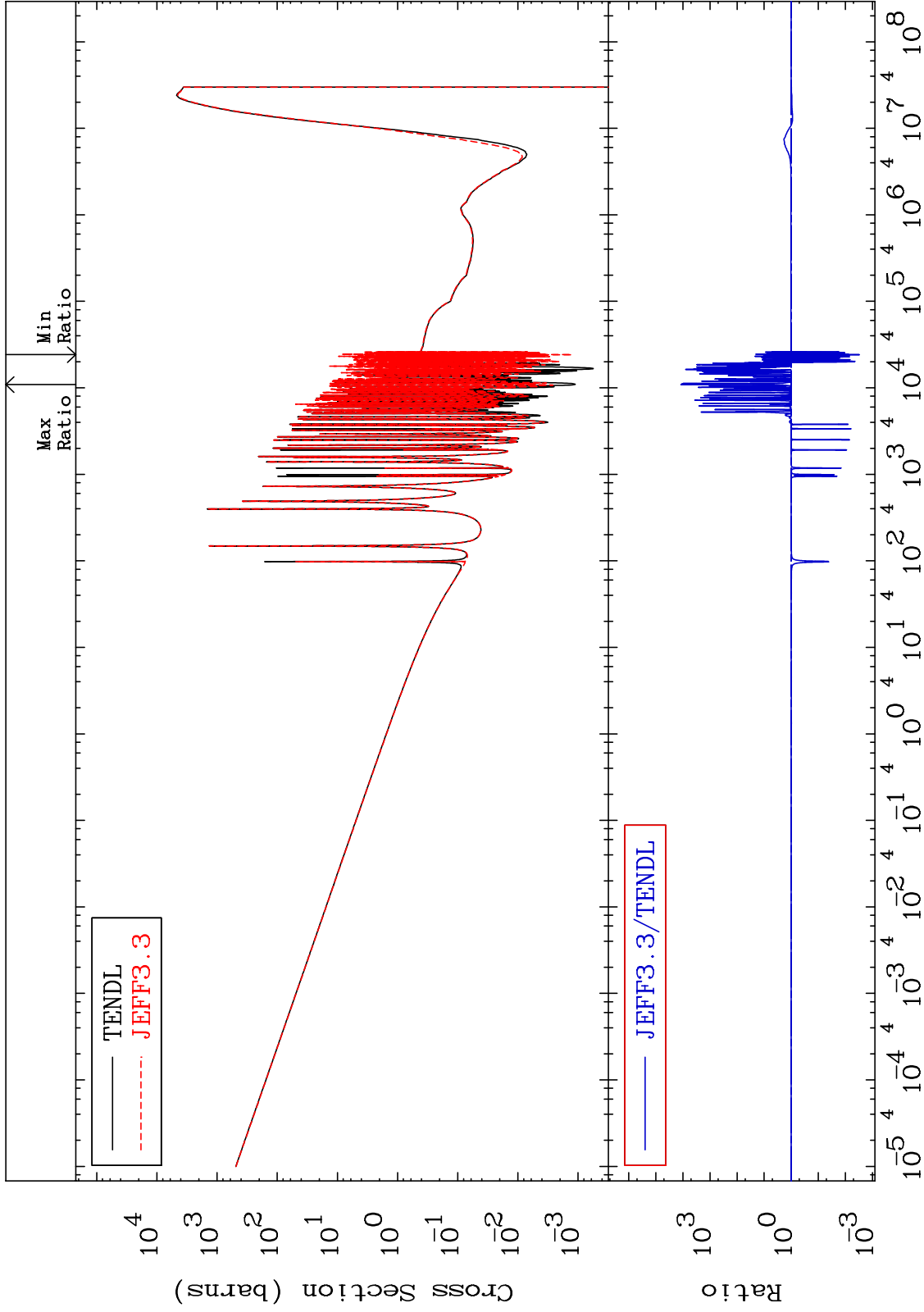
MAT 7049 Dpa inelastic (mt51-91) 70-Yb-176
 Cross Section -0.065 To 0.002 %



MAT 7049

Dpa disappearance (mt102 -120)
Cross Section

70-Yb-176
-99.70 To 9999. %



72

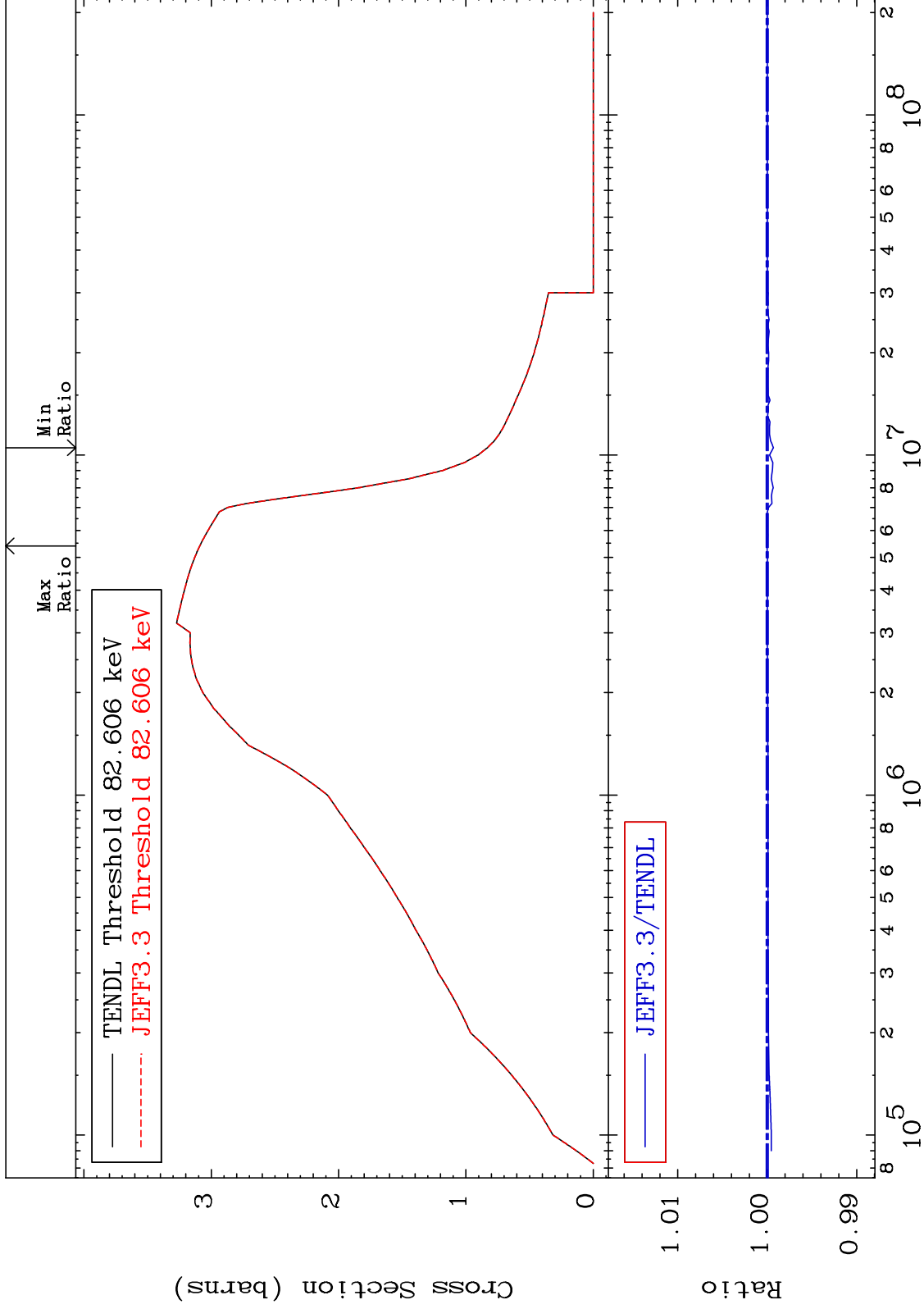
Incident Energy (eV)

70-Yb-176

MAT 7049

Inelastic: 70-Yb-176g
Radionuclide Production Cross Section -0.069 To 0.002 %

70-Yb-176



73

Incident Energy (eV)

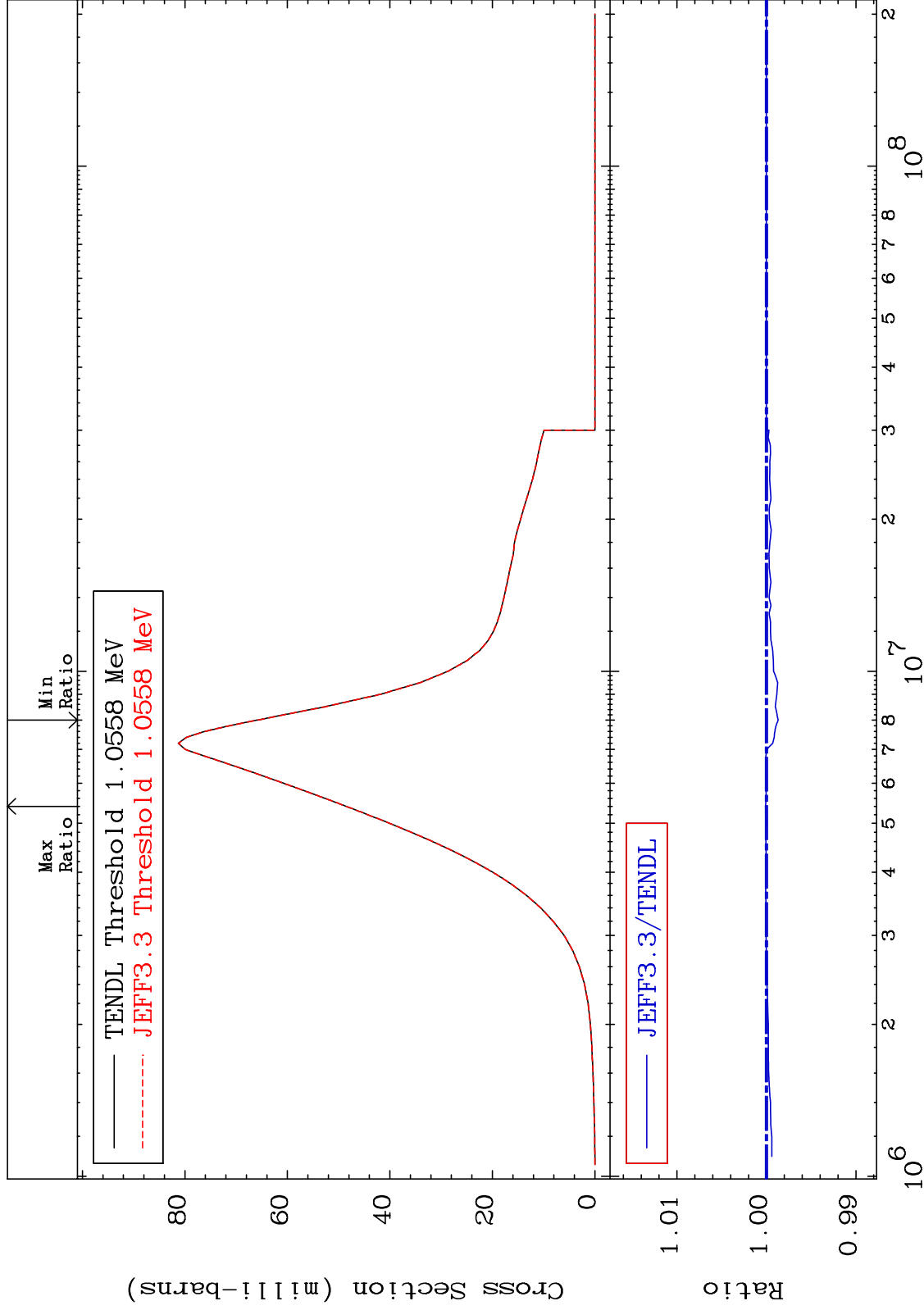
70-Yb-176

MAT 7049

Inelastic: 70-Yb-176m5

70-Yb-176

Radionuclide Production Cross Section -0.131 To 0.010 %



74

Incident Energy (eV)

70-Yb-176