

Program Complot
(Version 2018-1)

by

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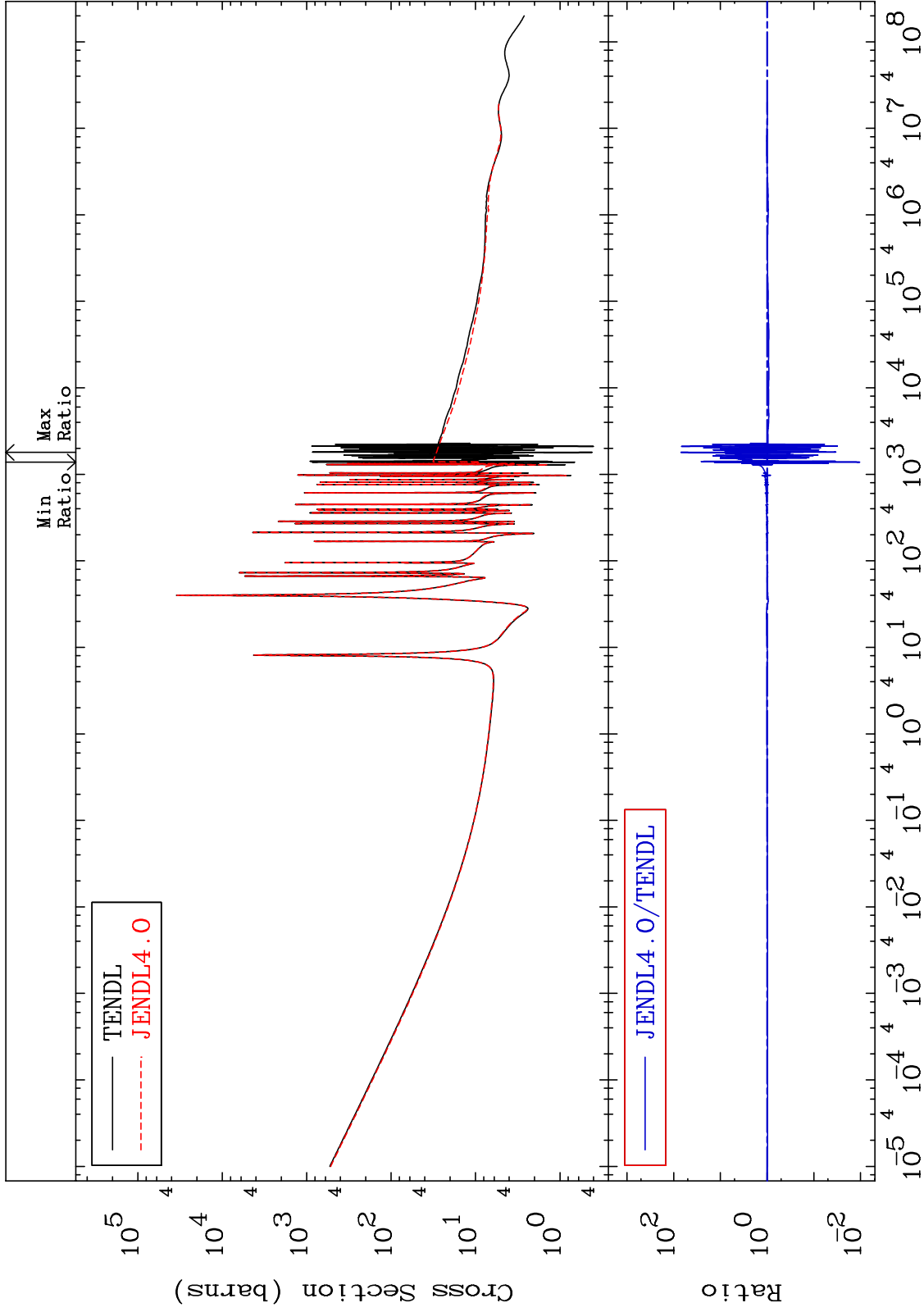
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7031

Total
Cross Section

70-Yb-170
-98.95 To 6923. %



1

Incident Energy (eV)

70-Yb-170

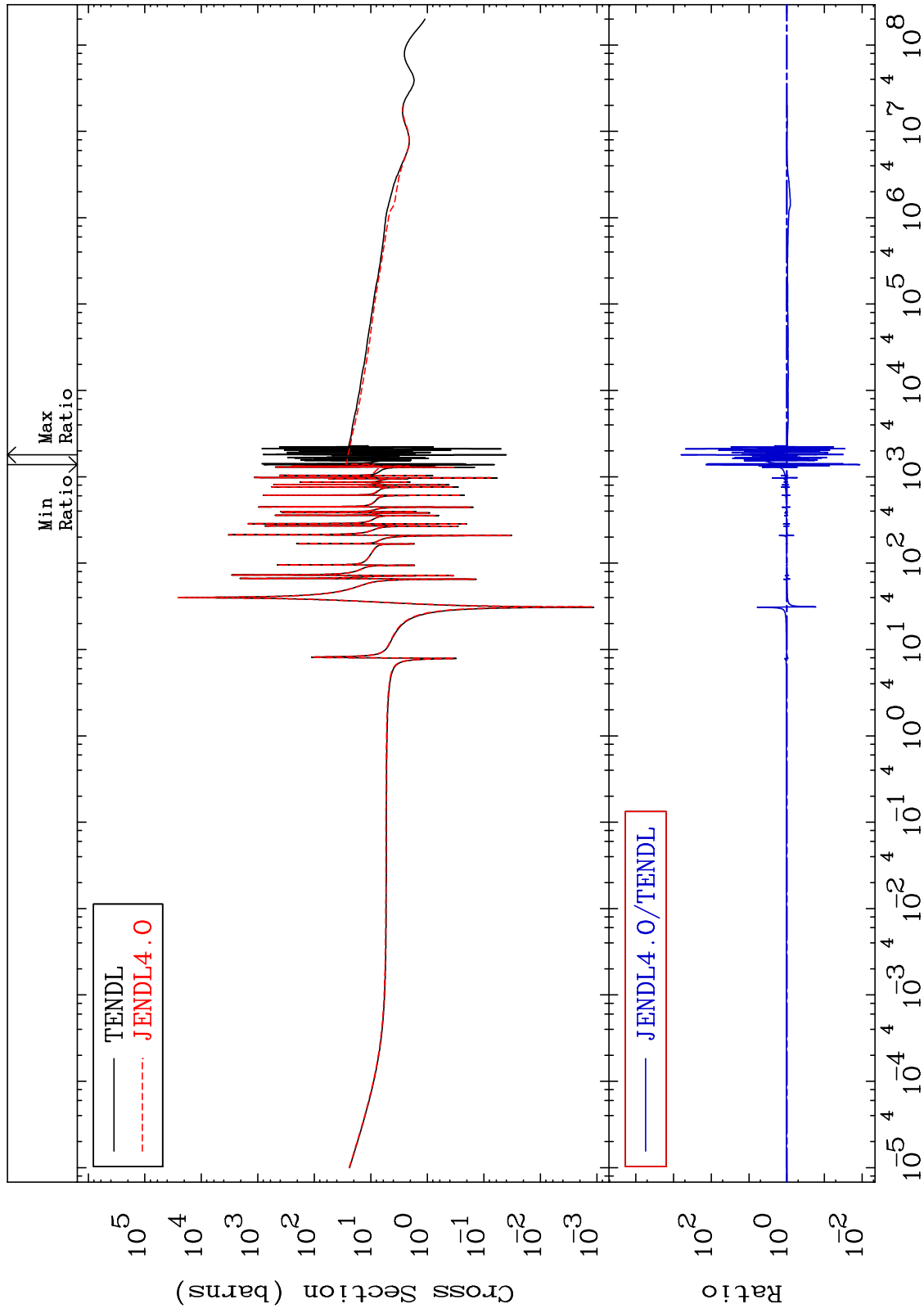
MAT 7031

Elastic

70-Yb-170

Cross Section

-98.84 To 9999. %

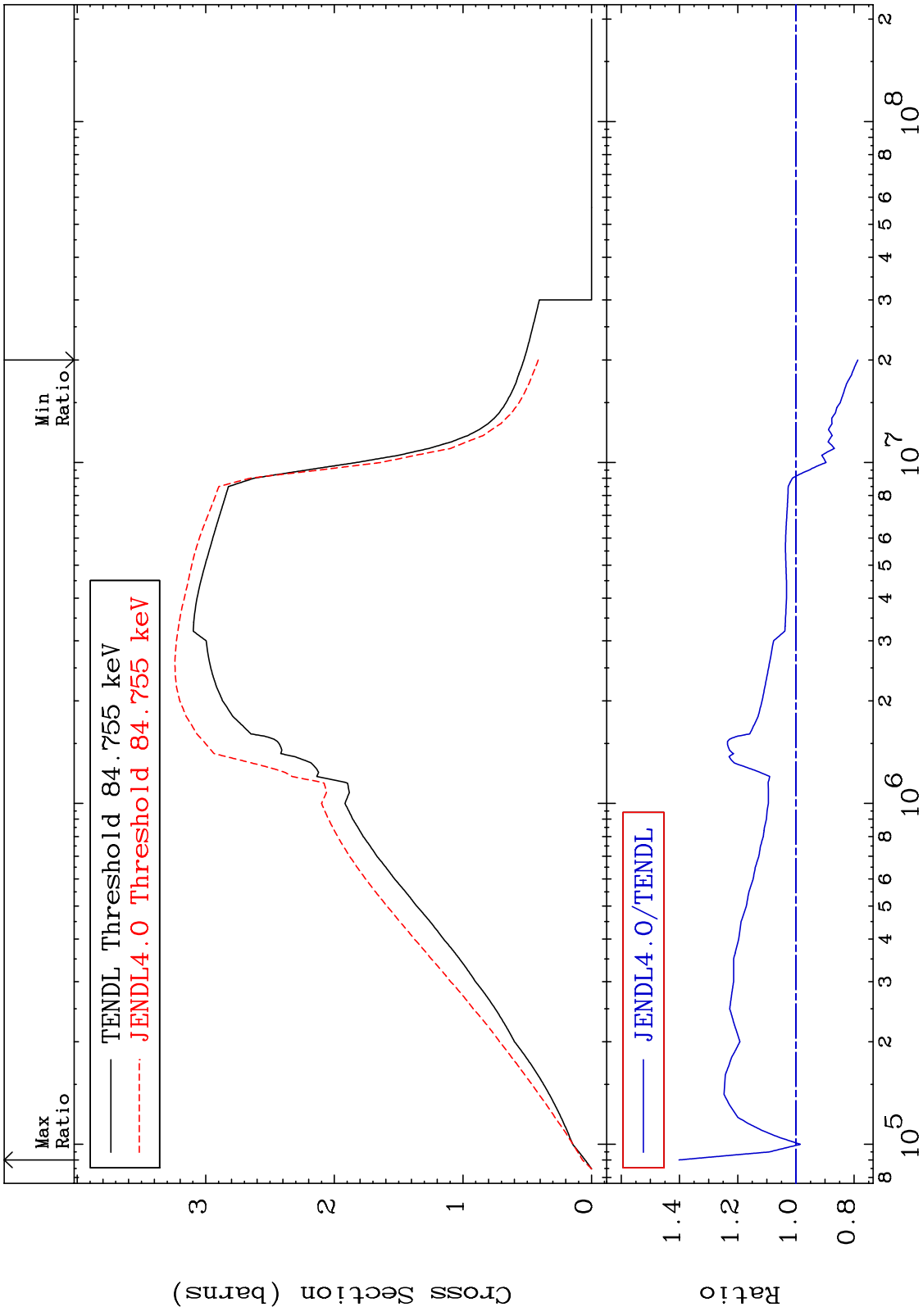


2

Incident Energy (eV)

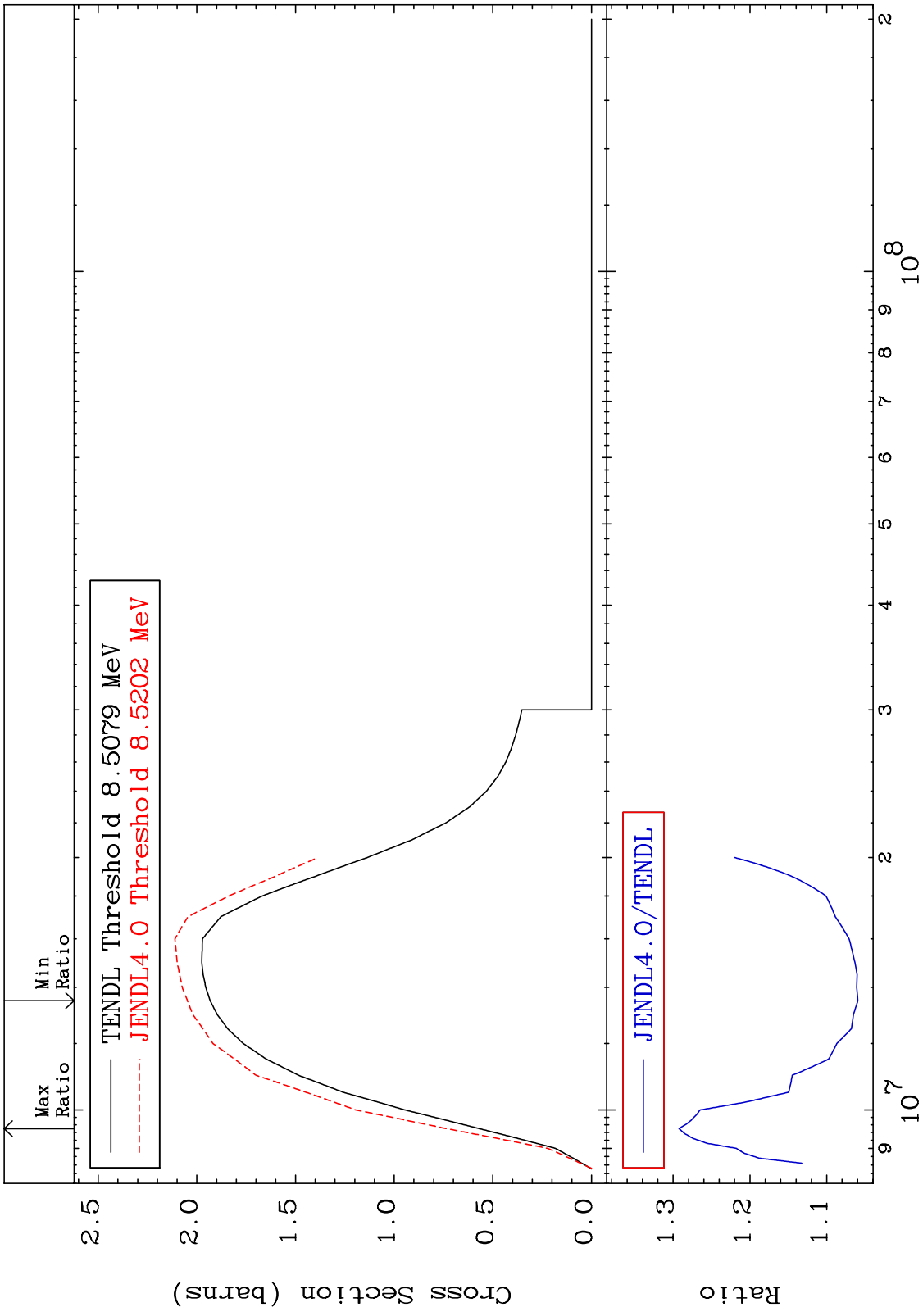
70-Yb-170

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



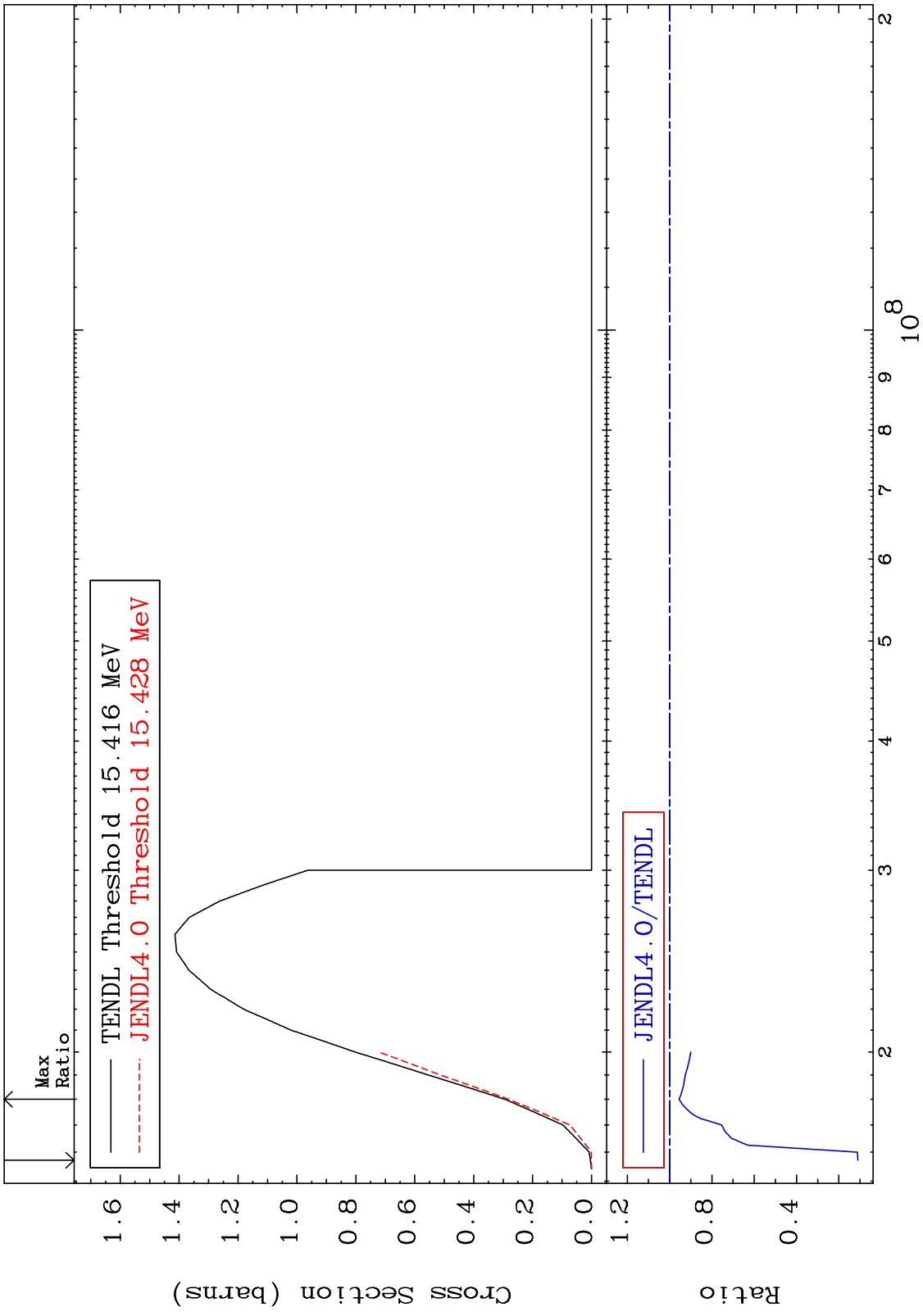
70-Yb-170

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



4 70-Yb-170

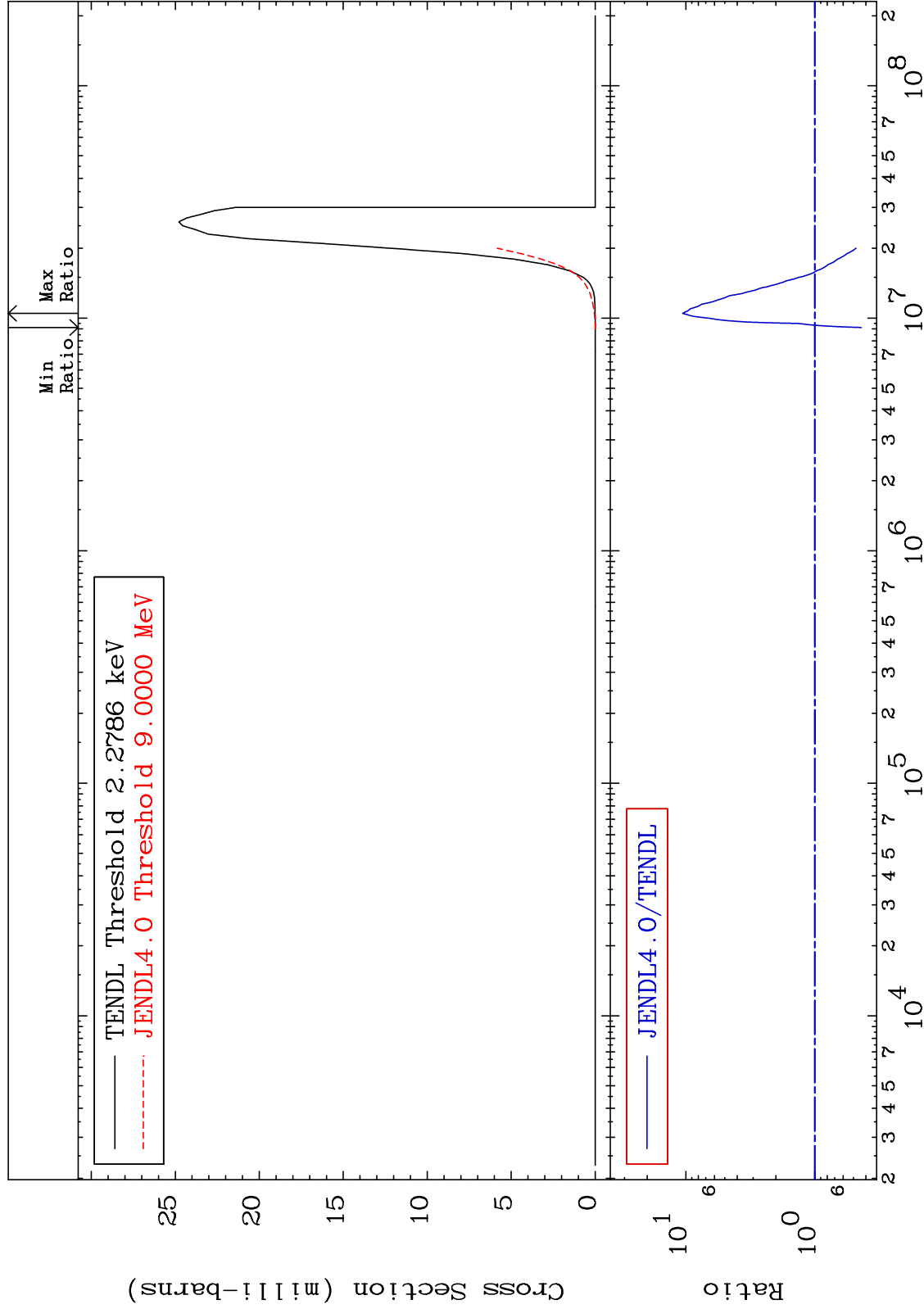
MAT 7031 (n,3n) Cross Section 70-Yb-170 -88.98 To -4.467%



MAT 7031

$(n, n') \alpha$
Cross Section

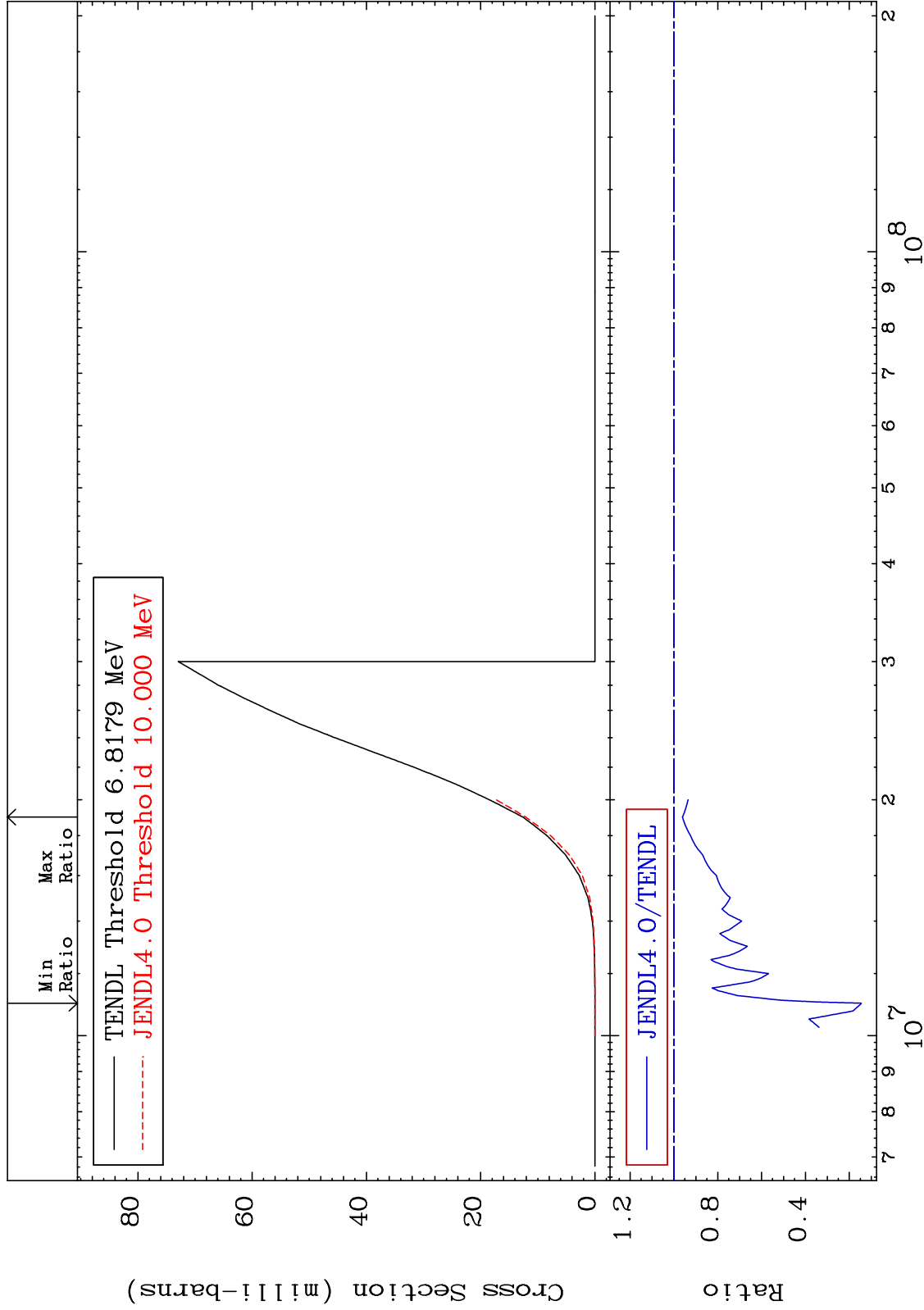
70-Yb-170
-56.56 To 959.2 %



MAT 7031

(n, n') p
Cross Section

⁷⁰Yb-170
-85.47 To -3.892%

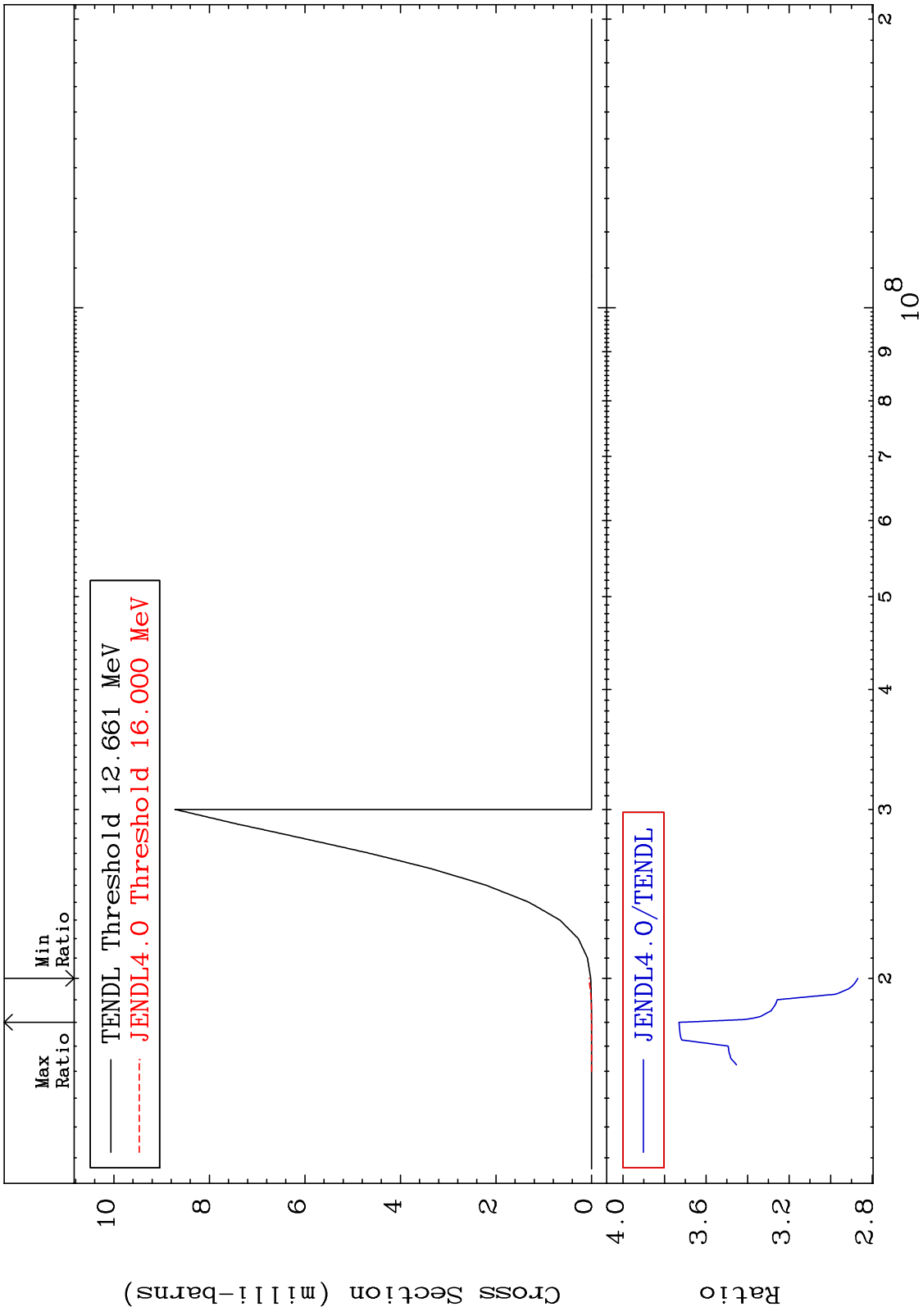


7

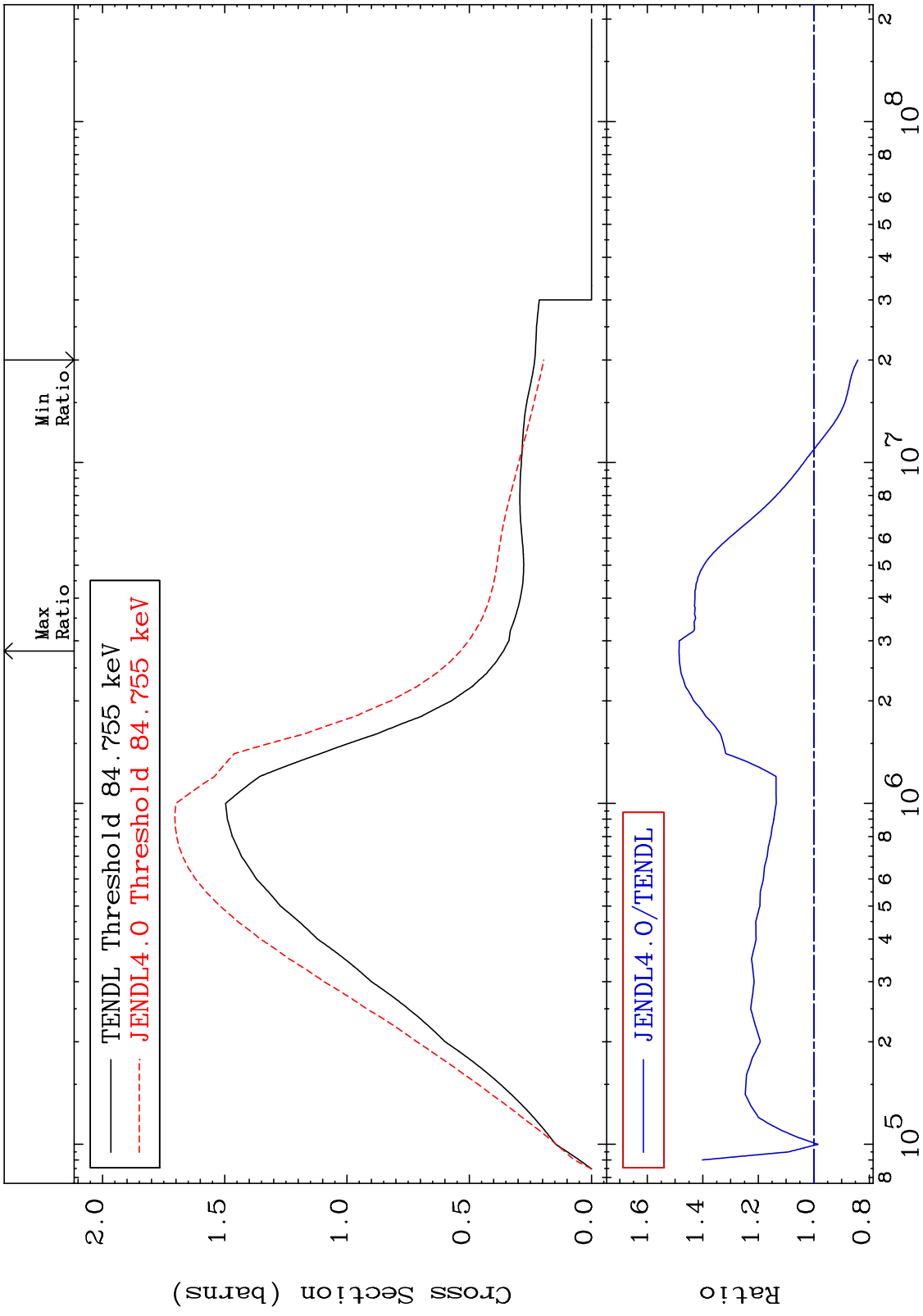
Incident Energy (eV)

⁷⁰Yb-170

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

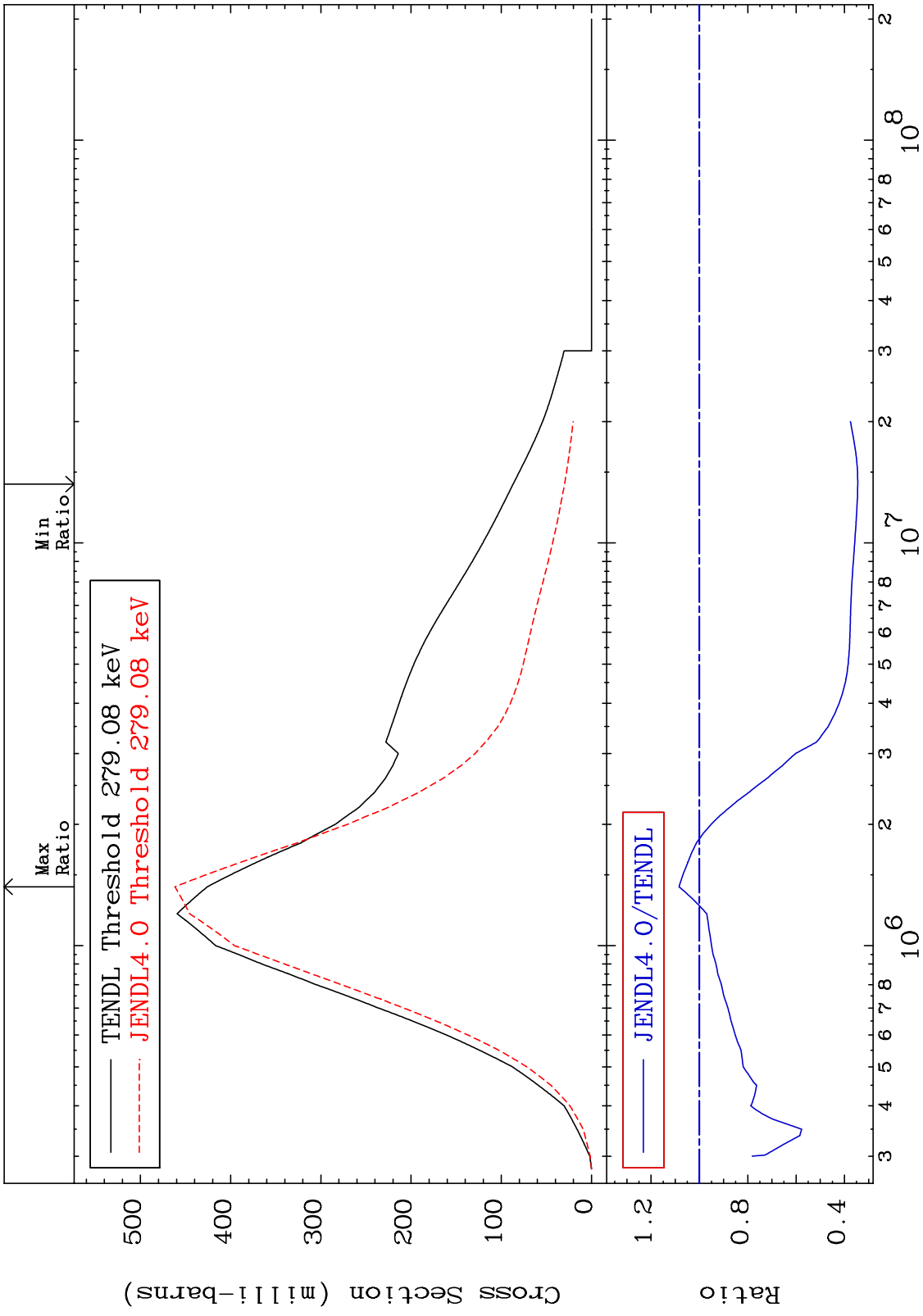


MAT 7031 MT= 51 (n,n') Level Cross Section 70-Yb-170 -15.88 To 48.59 %



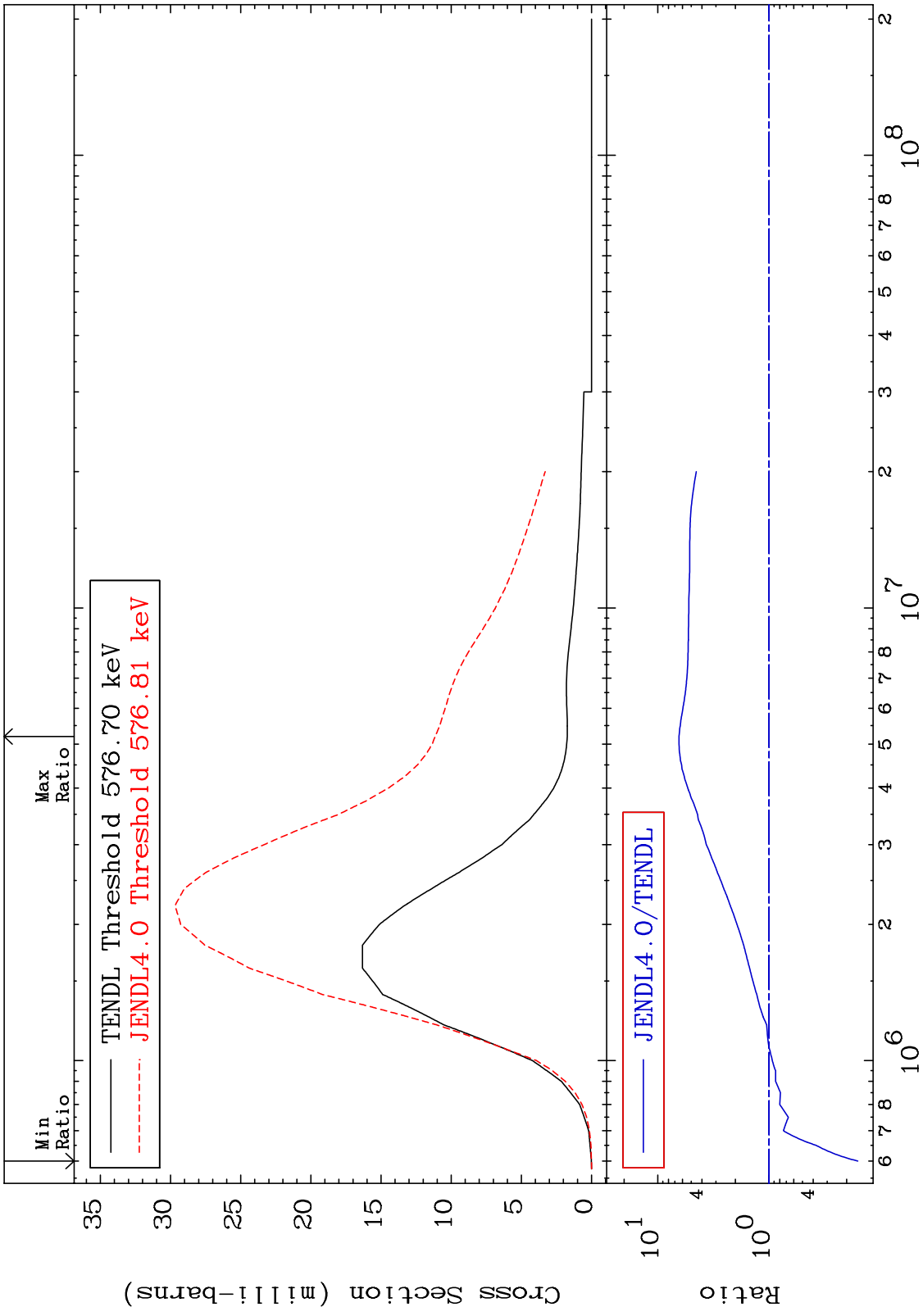
9 Incident Energy (eV) 70-Yb-170

MAT 7031 MT= 52 (n,n') Level Cross Section 70-Yb-170
 -65.54 To 8.421 %

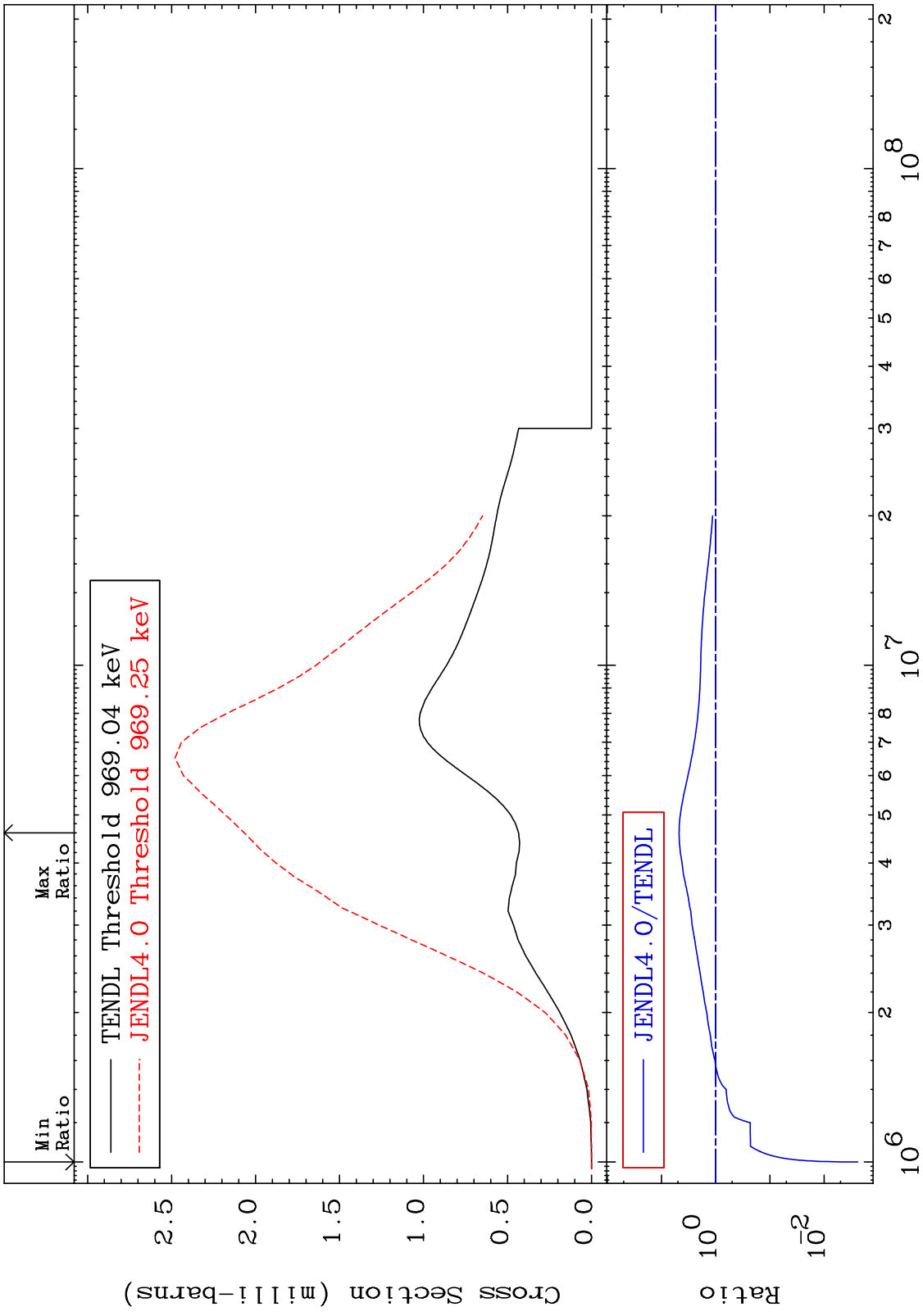


10 Incident Energy (eV) 70-Yb-170

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

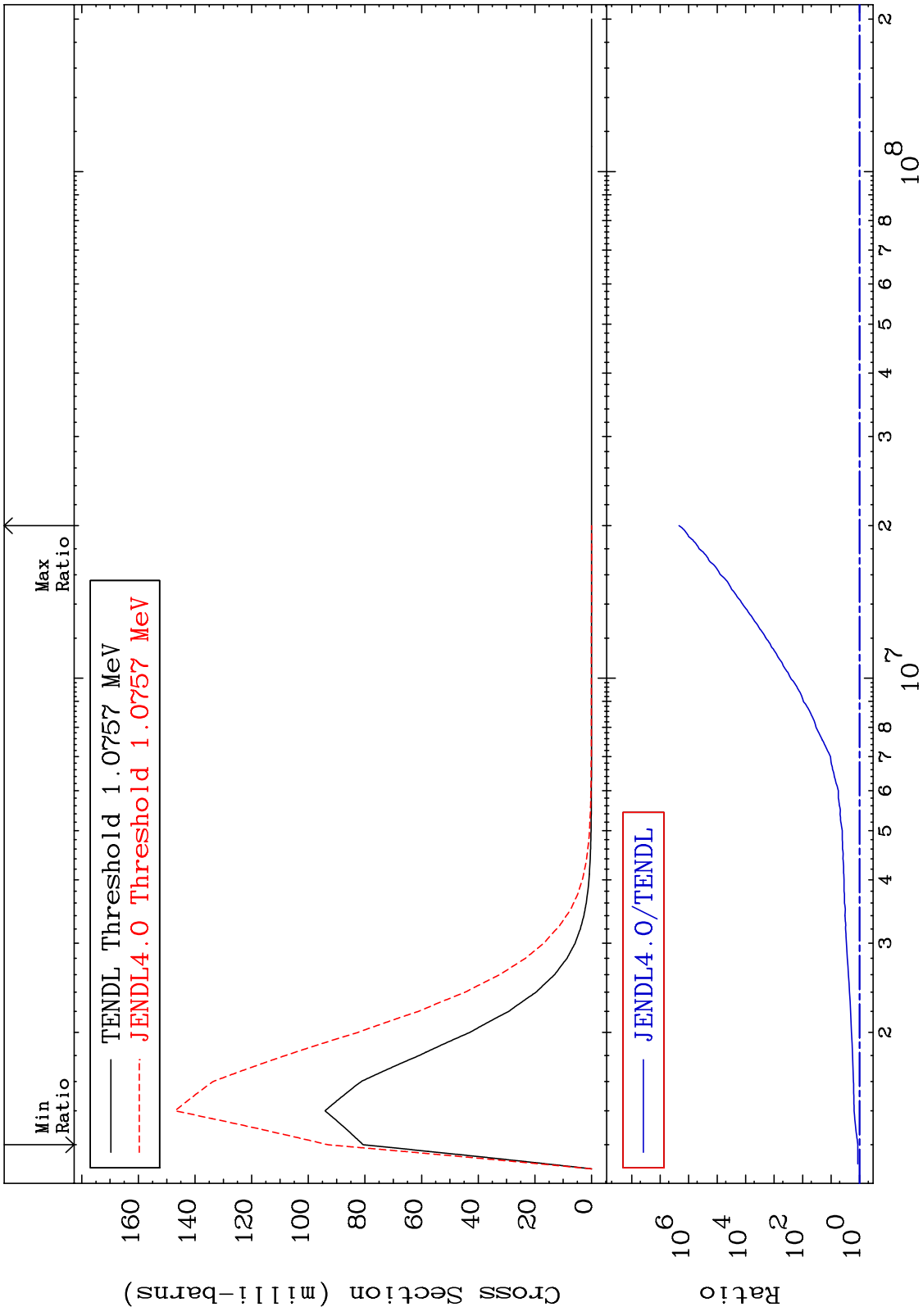


MAT 7031 MT= 54 (n,n') Level Cross Section 70-Yb-170
 -99.76 To 376.4 %

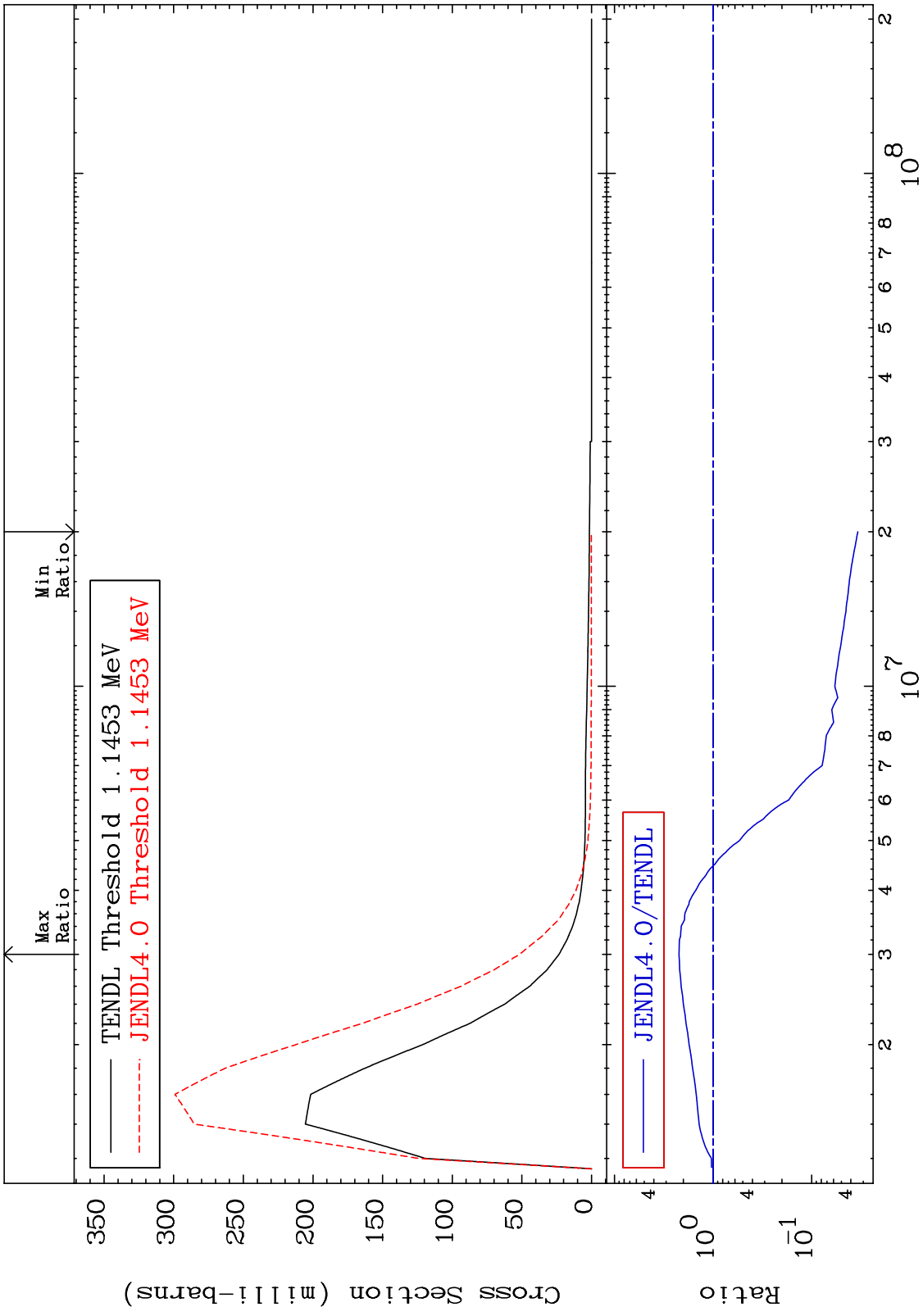


12 70-Yb-170

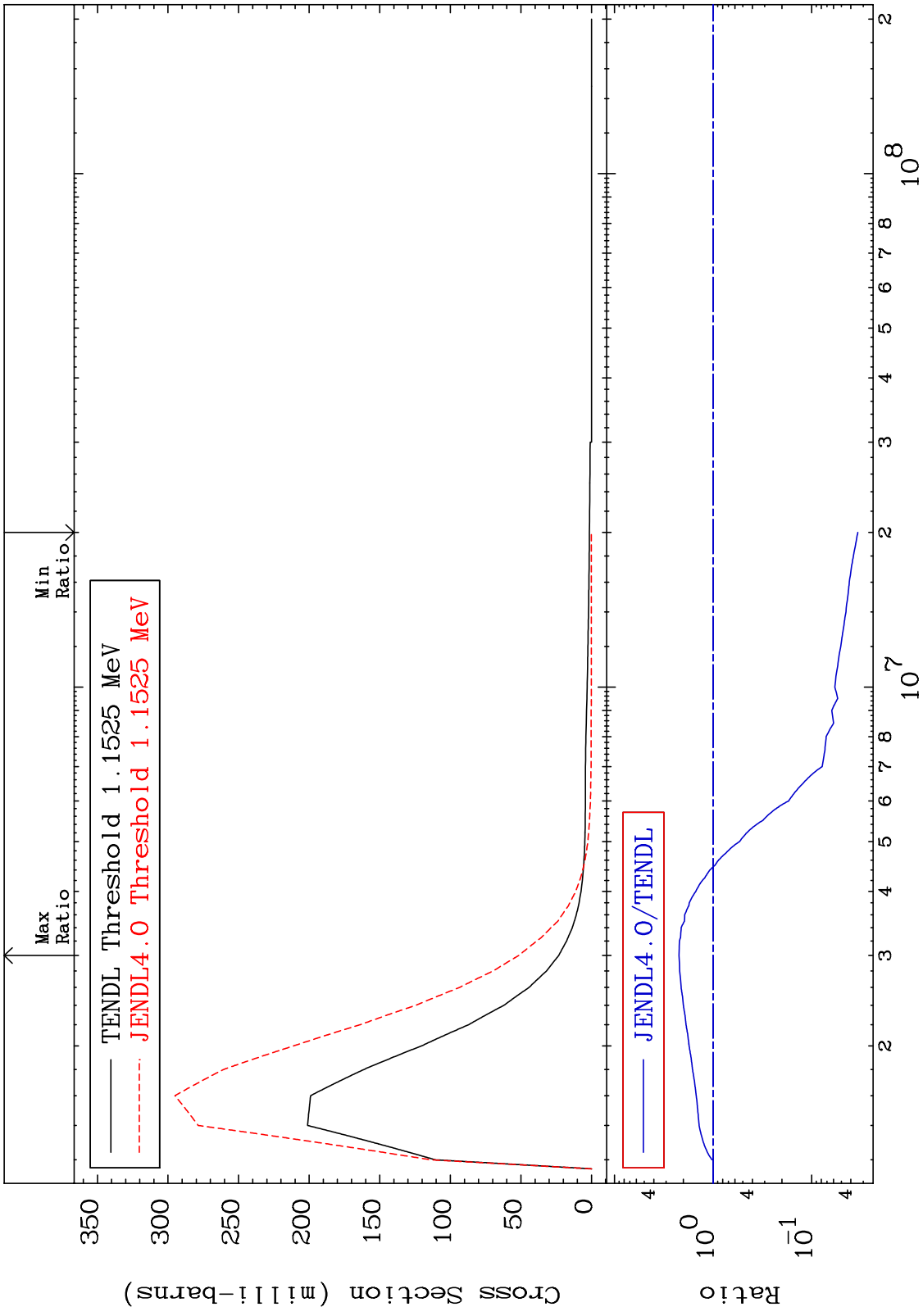
MAT 7031 MT= 55 (n,n') Level Cross Section 70-Yb-170 To 9999. %
 15.43



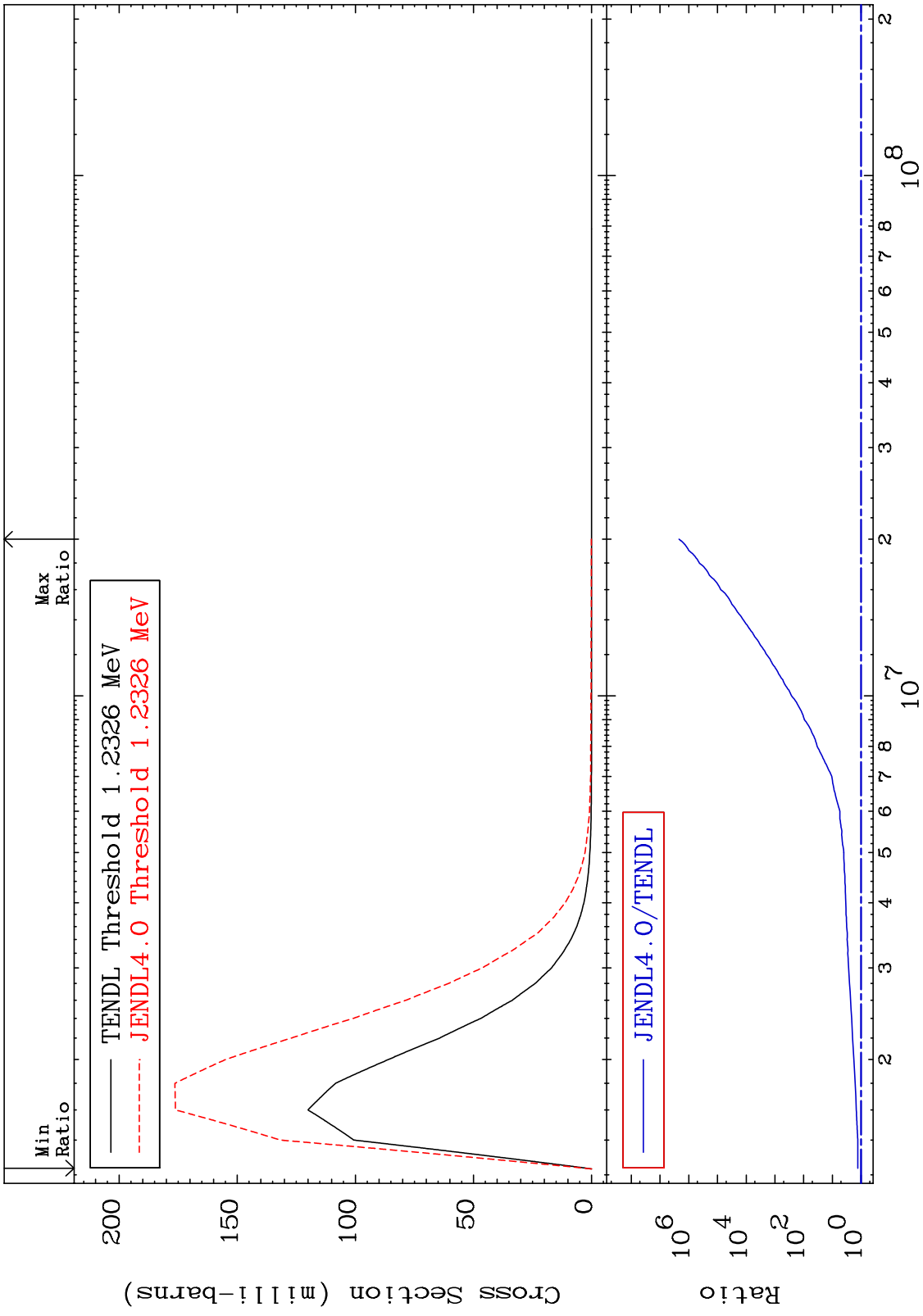
MAT 7031 MT= 56 (n,n') Level Cross Section 70-Yb-170
 -96.60 To 121.7 %



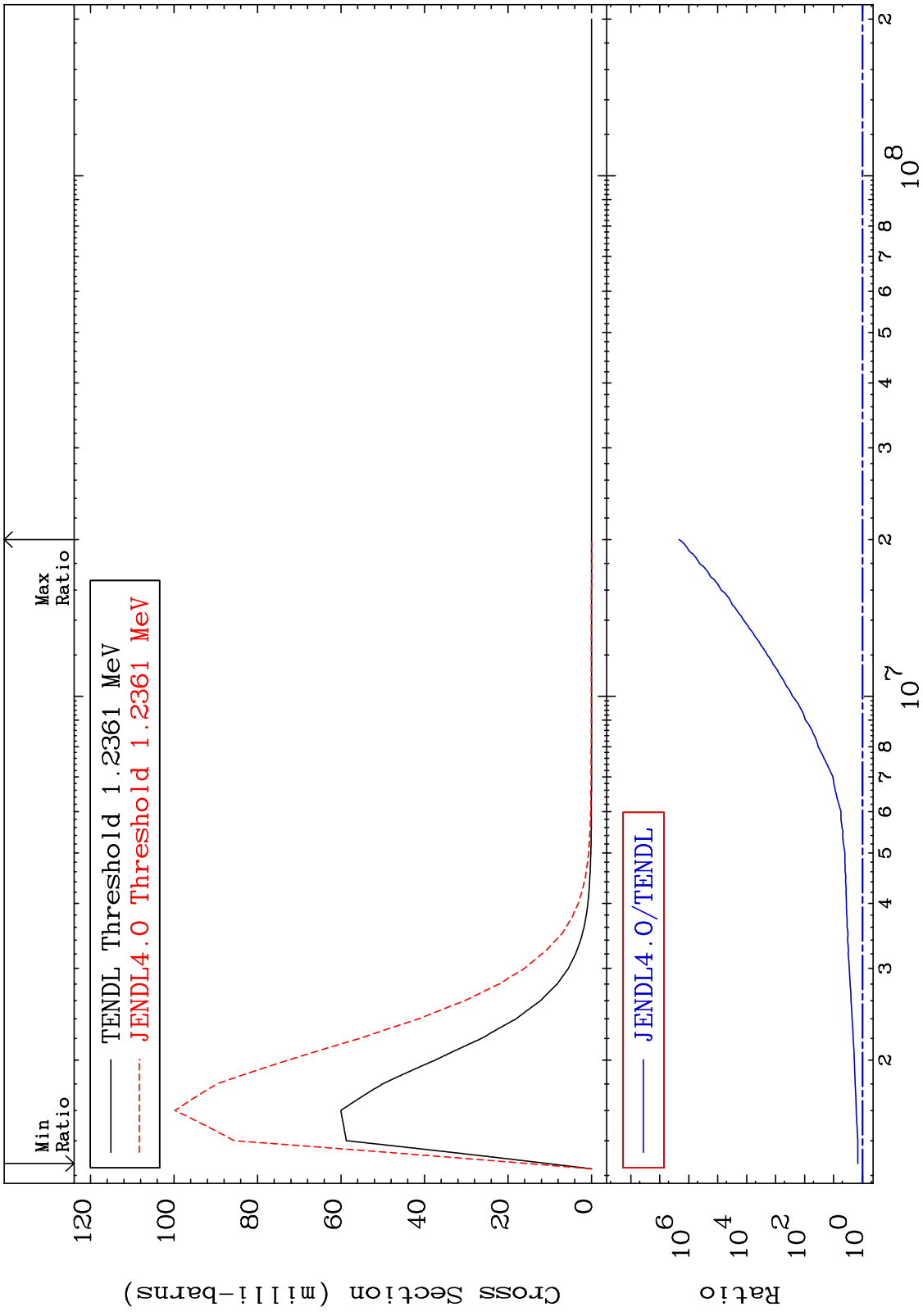
MAT 7031 MT= 57 (n,n') Level Cross Section 70-Yb-170
 -96.60 To 121.6 %



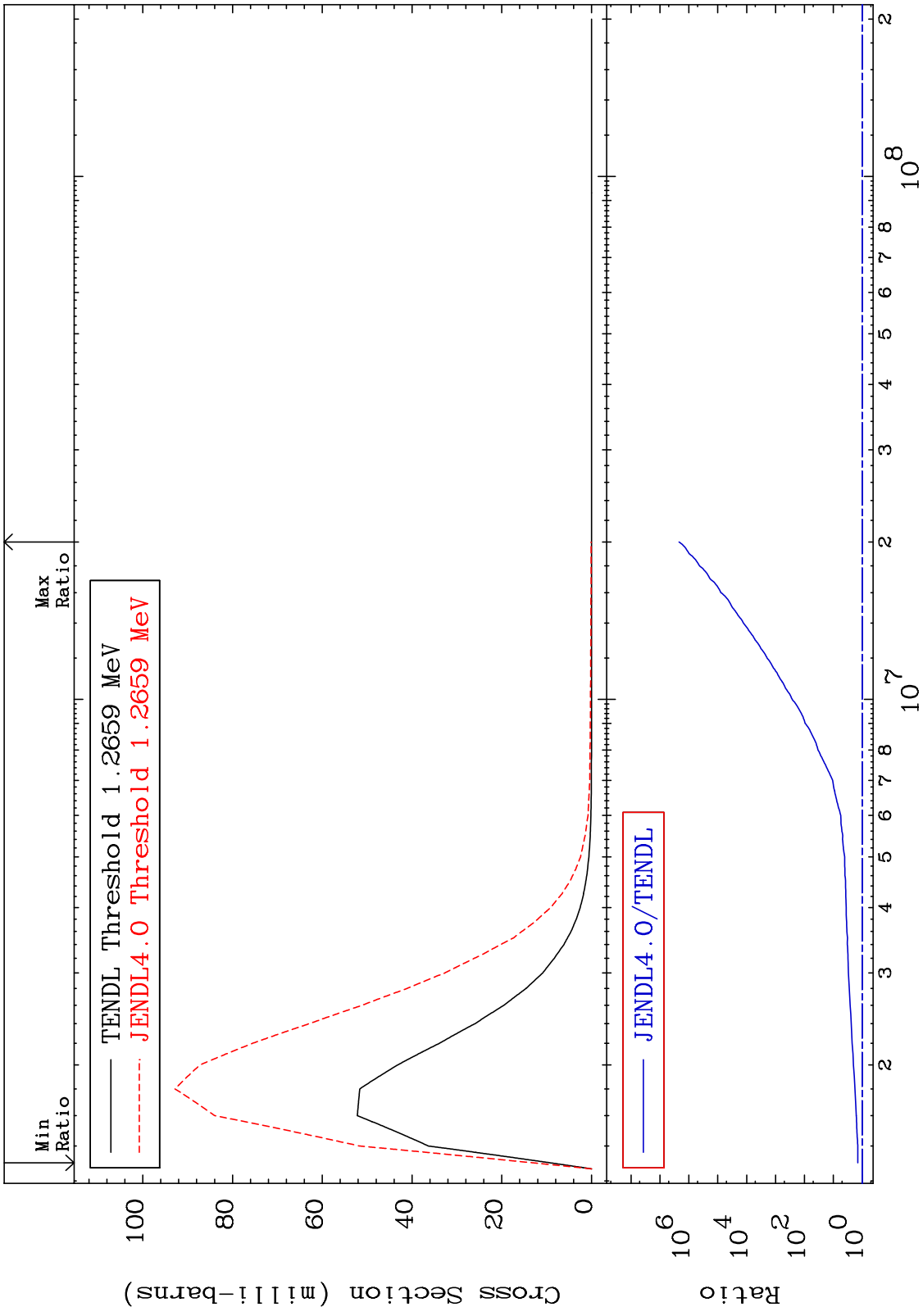
MAT 7031 MT= 58 (n,n') Level Cross Section 30.32 To 9999. % 70-Yb-170



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

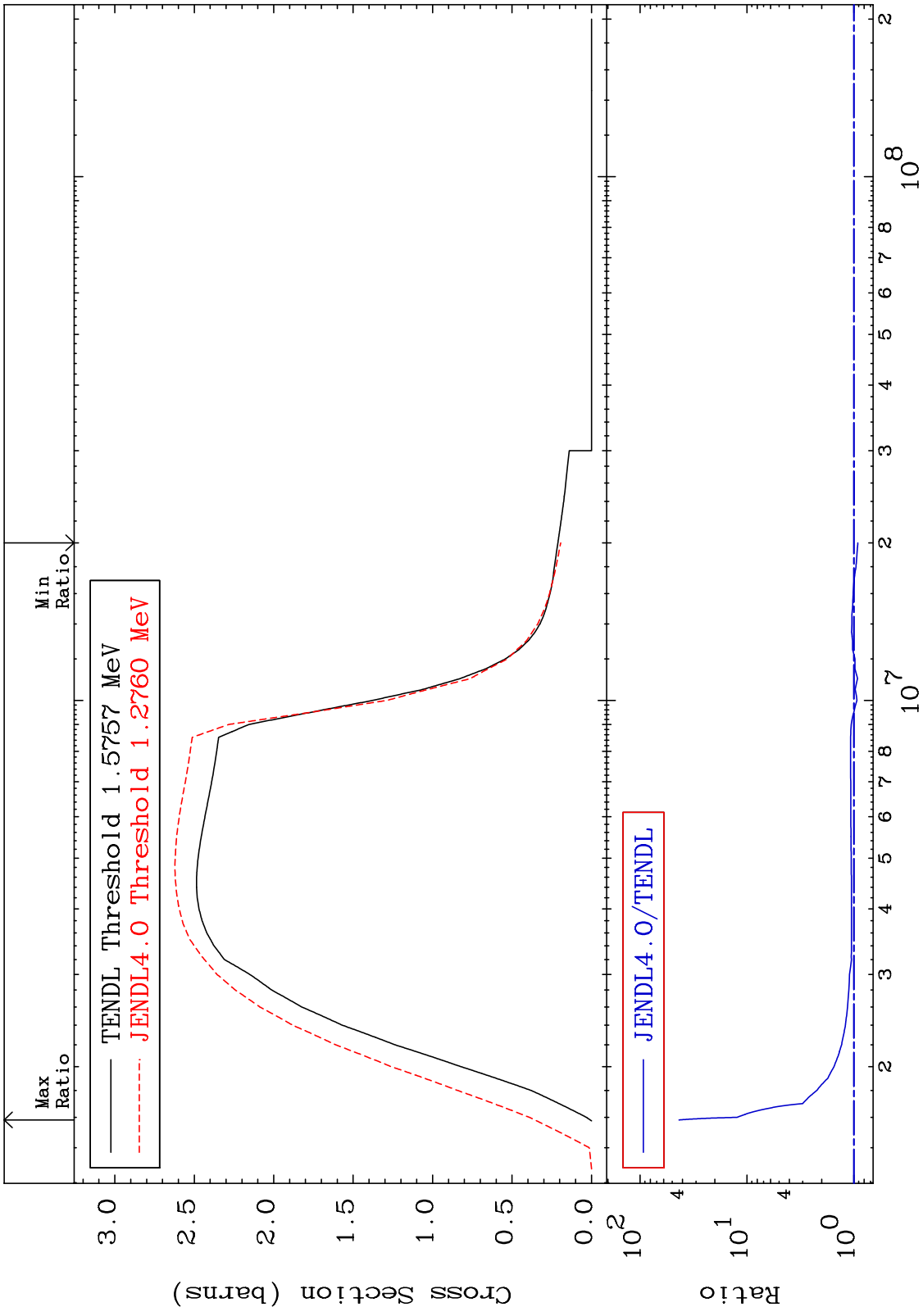


MAT 7031 MT= 60 (n,n') Level Cross Section 70-Yb-170 To 9999. %
 42.23



Incident Energy (eV) 70-Yb-170

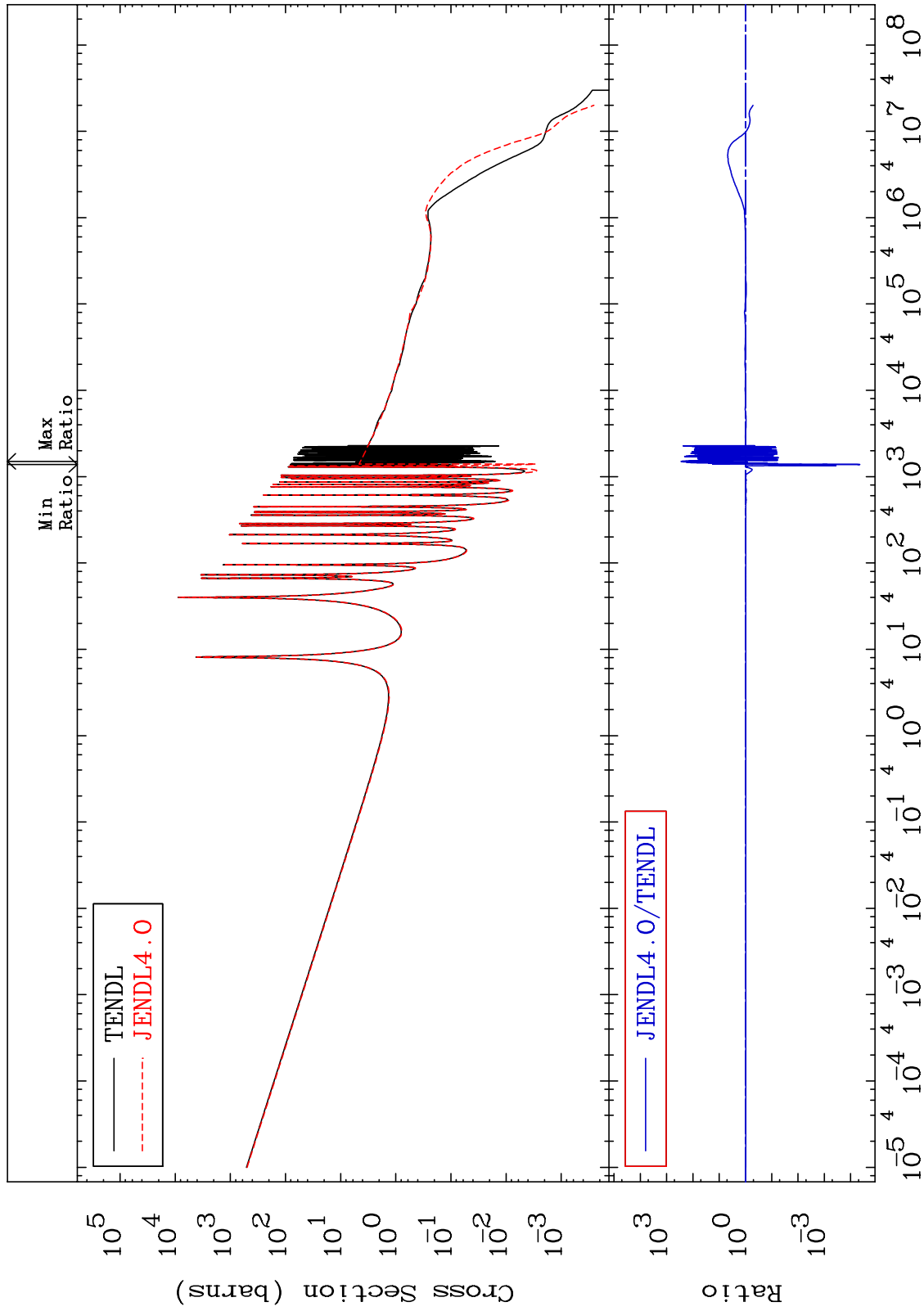
MAT 7031 (n, n') Continuum Cross Section 70-Yb-170 -8.313 To 4216. %



MAT 7031

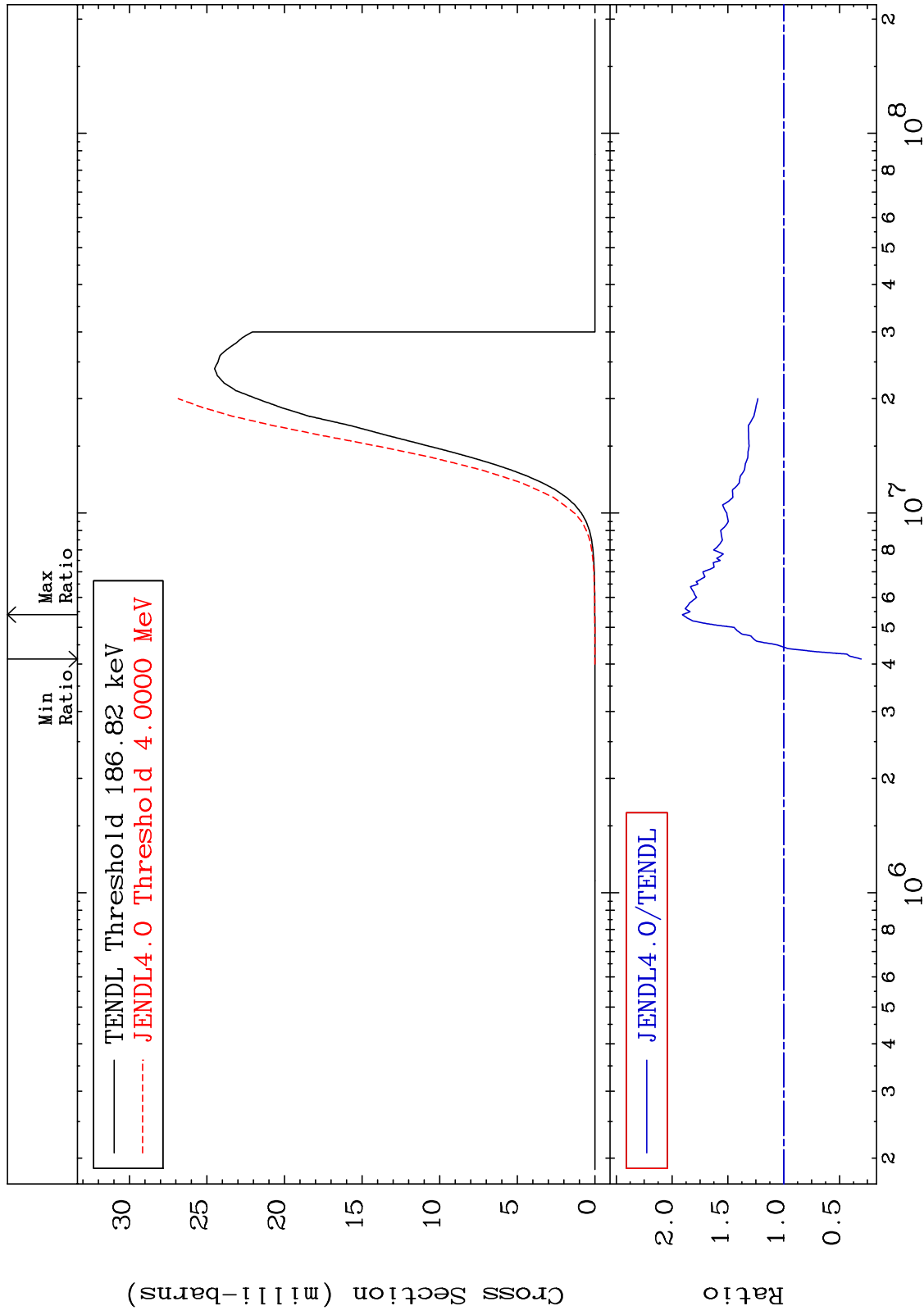
(n, γ)
Cross Section

70-Yb-170
-100.0 To 9999. %



MAT 7031

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



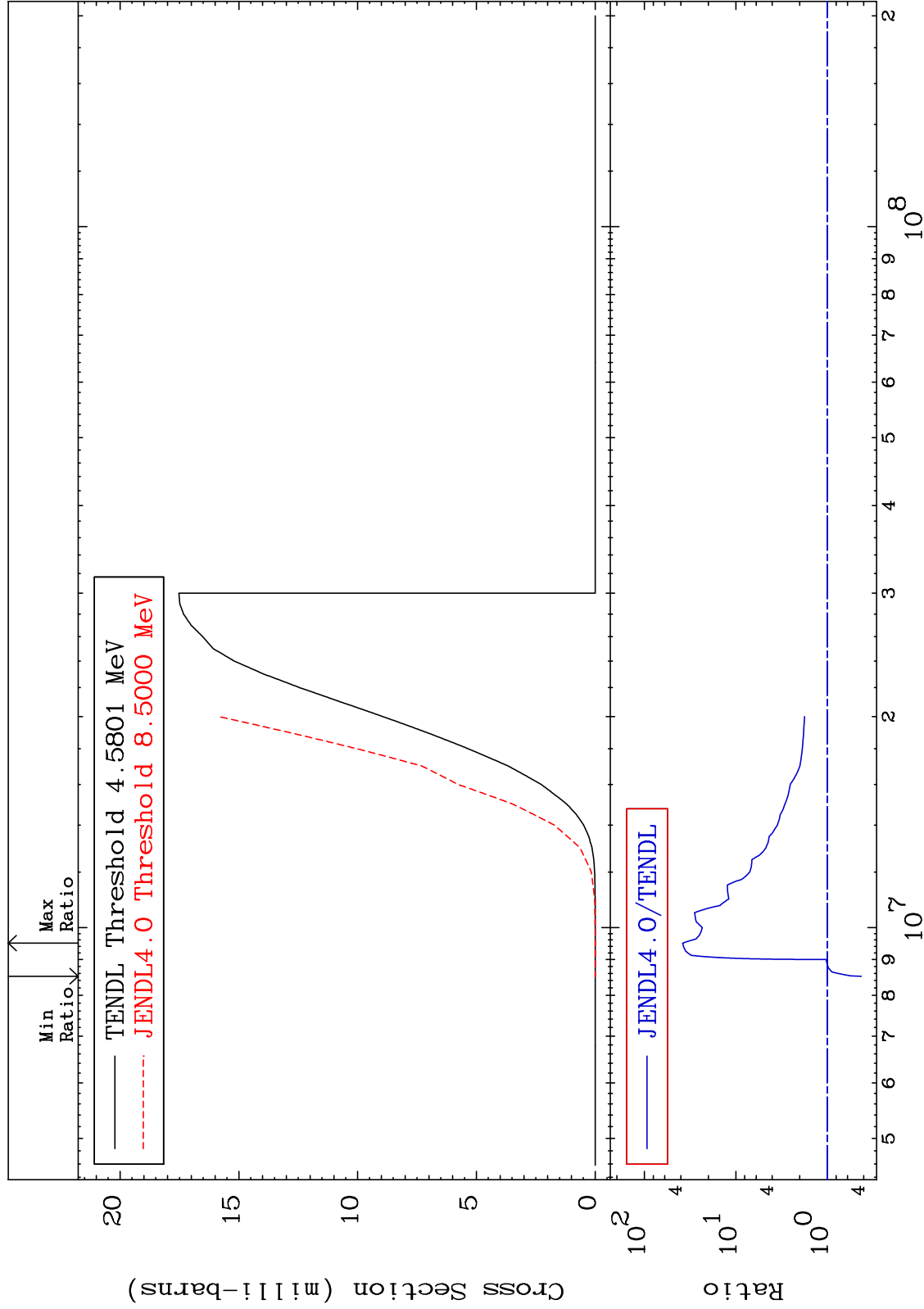
MAT 7031

(n,d)

70-Yb-170

Cross Section

-57.62 To 3718. %



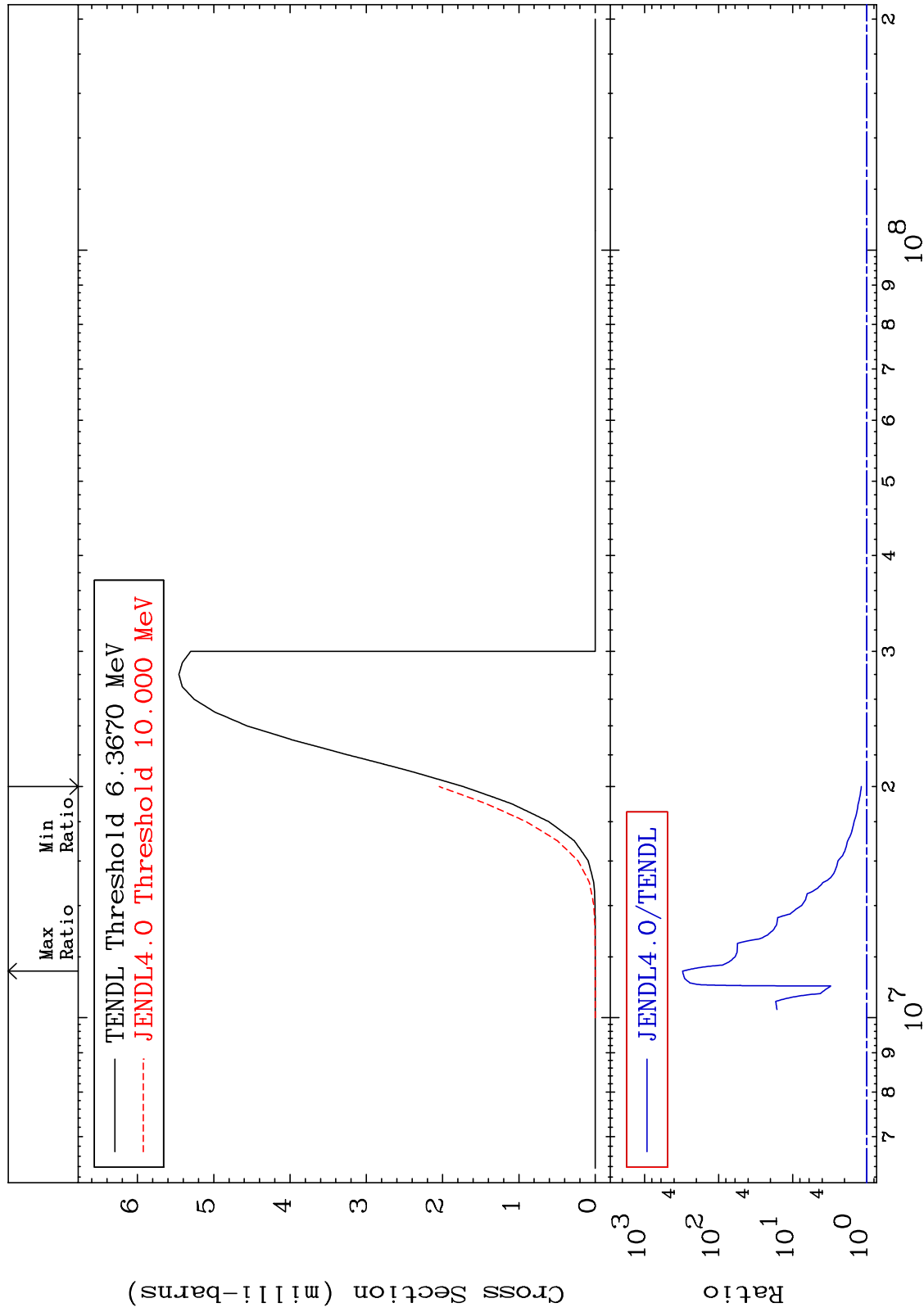
MAT 7031

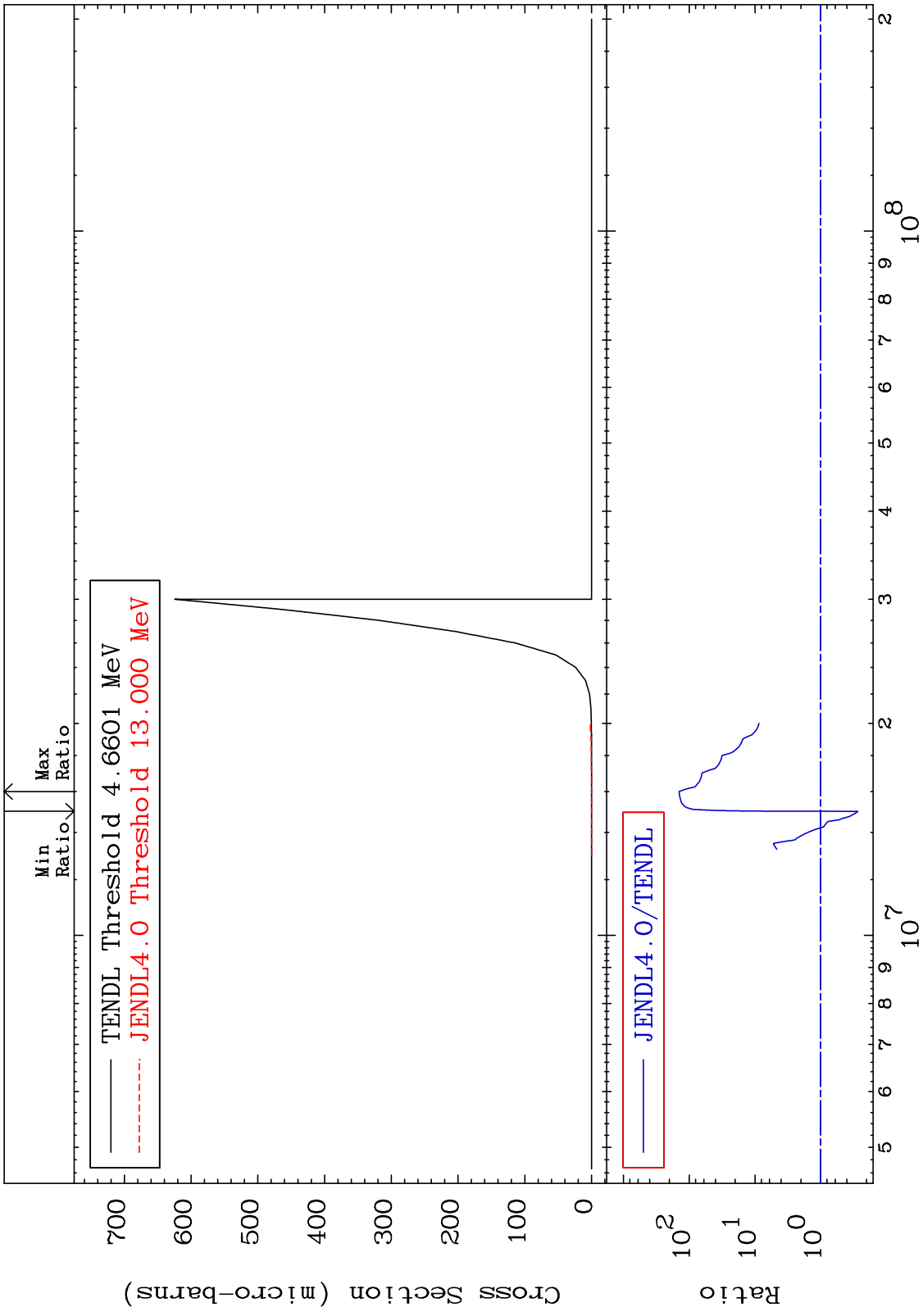
(n,t)

70-Yb-170

Cross Section

18.27 To 9999. %





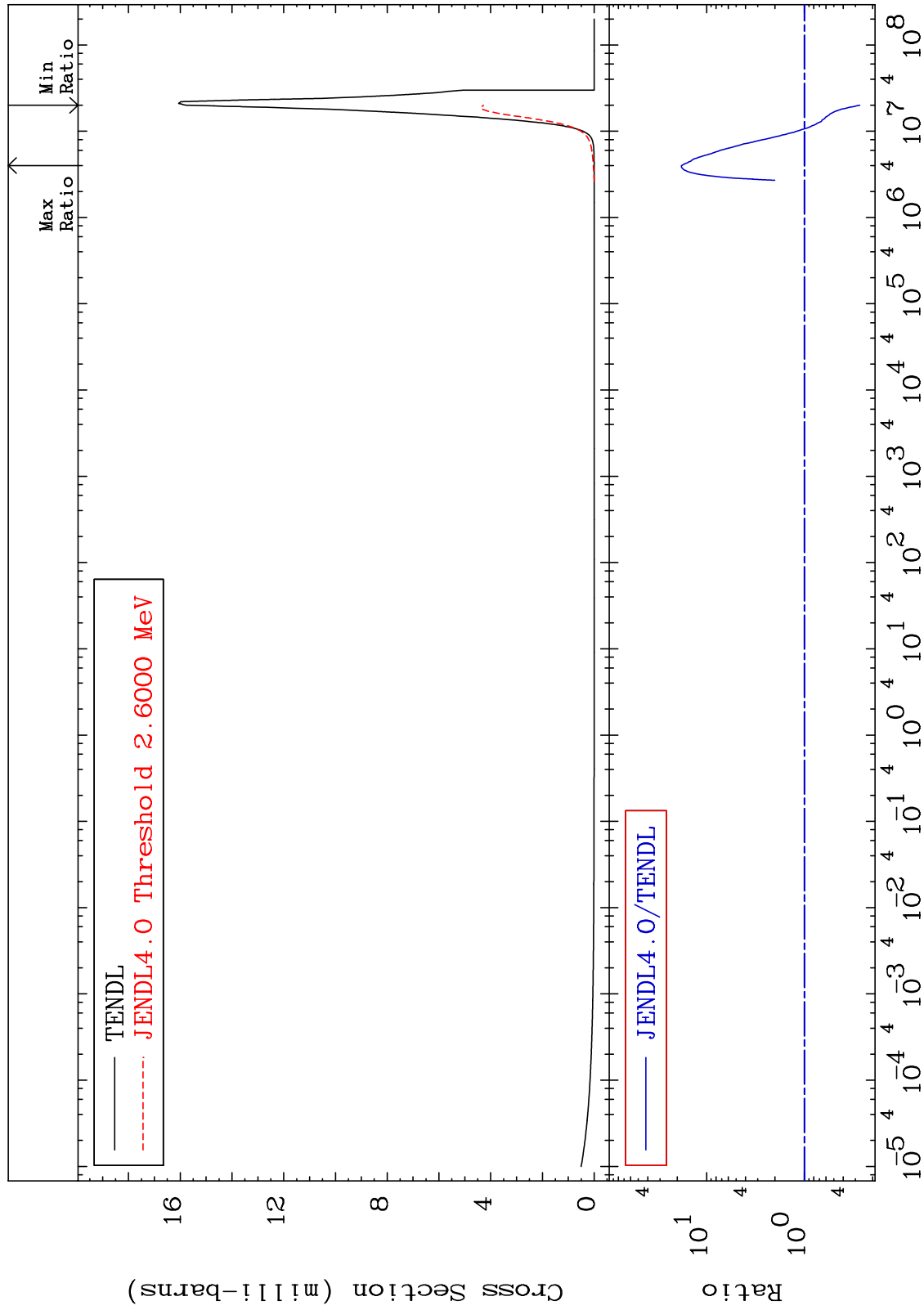
MAT 7031

(n, α)

70-Yb-170

Cross Section

-72.90 To 1708. %



Incident Energy (eV)

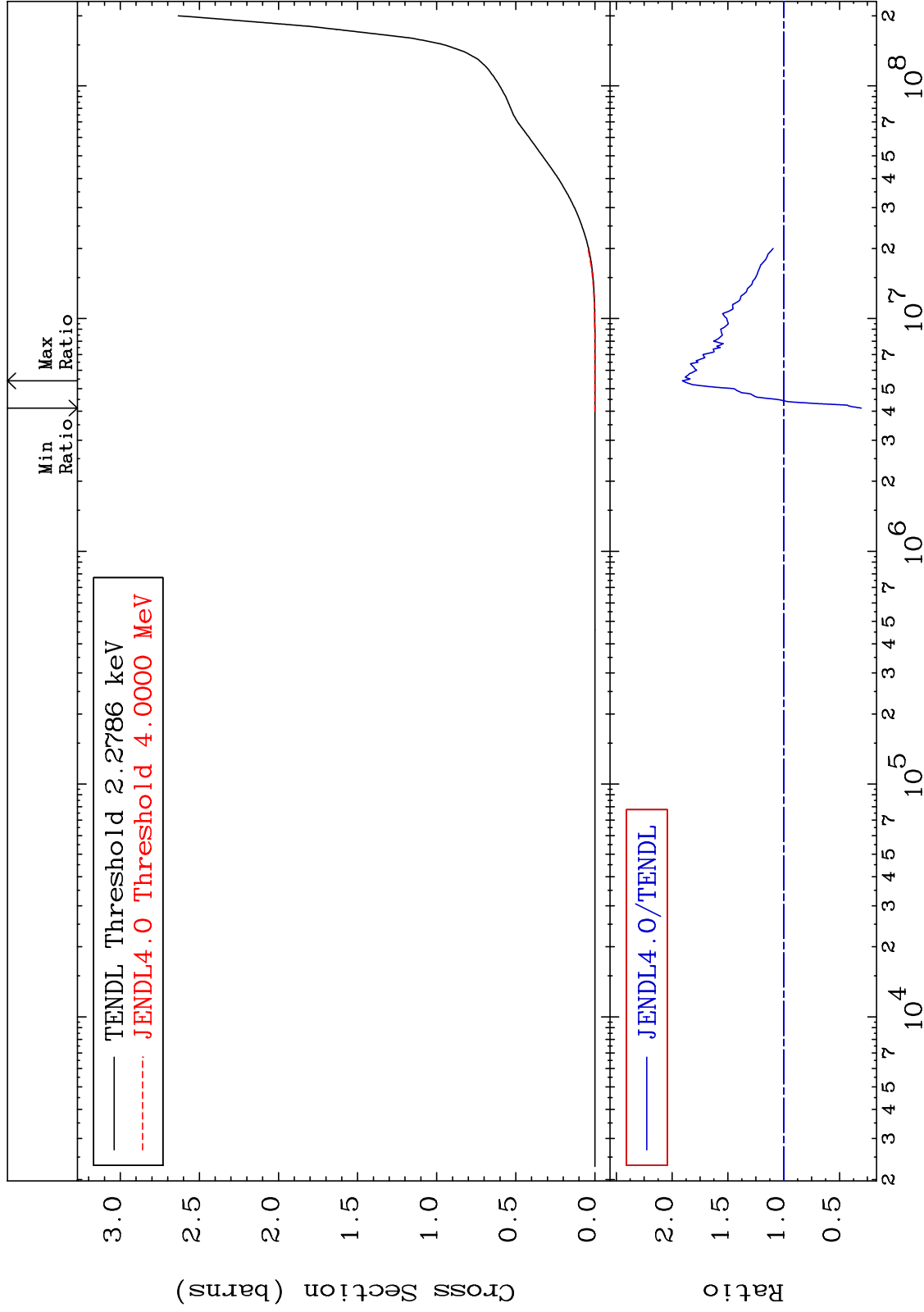
70-Yb-170

25

MAT 7031

Hydrogen Production
Cross Section

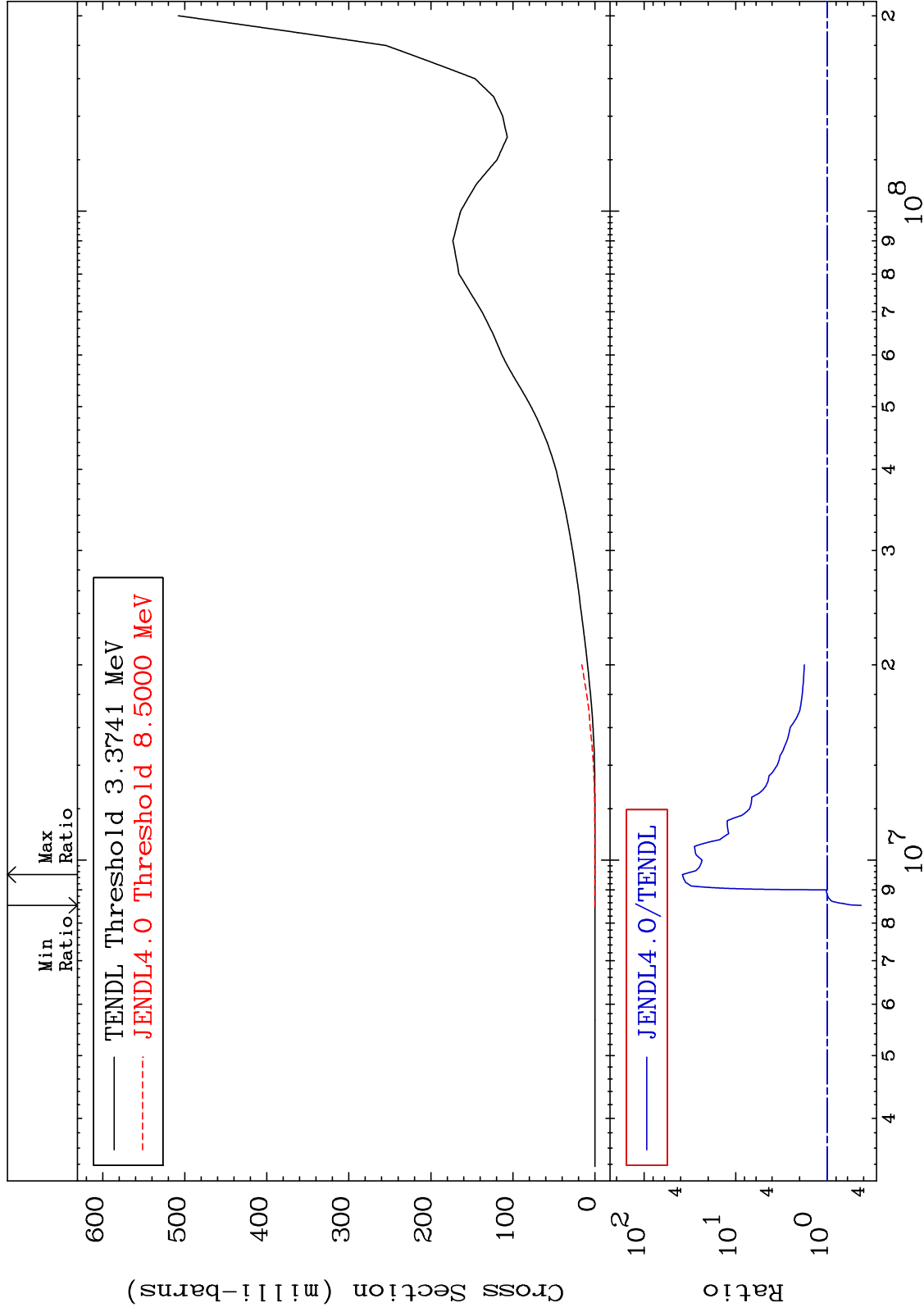
70-Yb-170
-69.47 To 90.71 %



MAT 7031

Deuterium Production
Cross Section

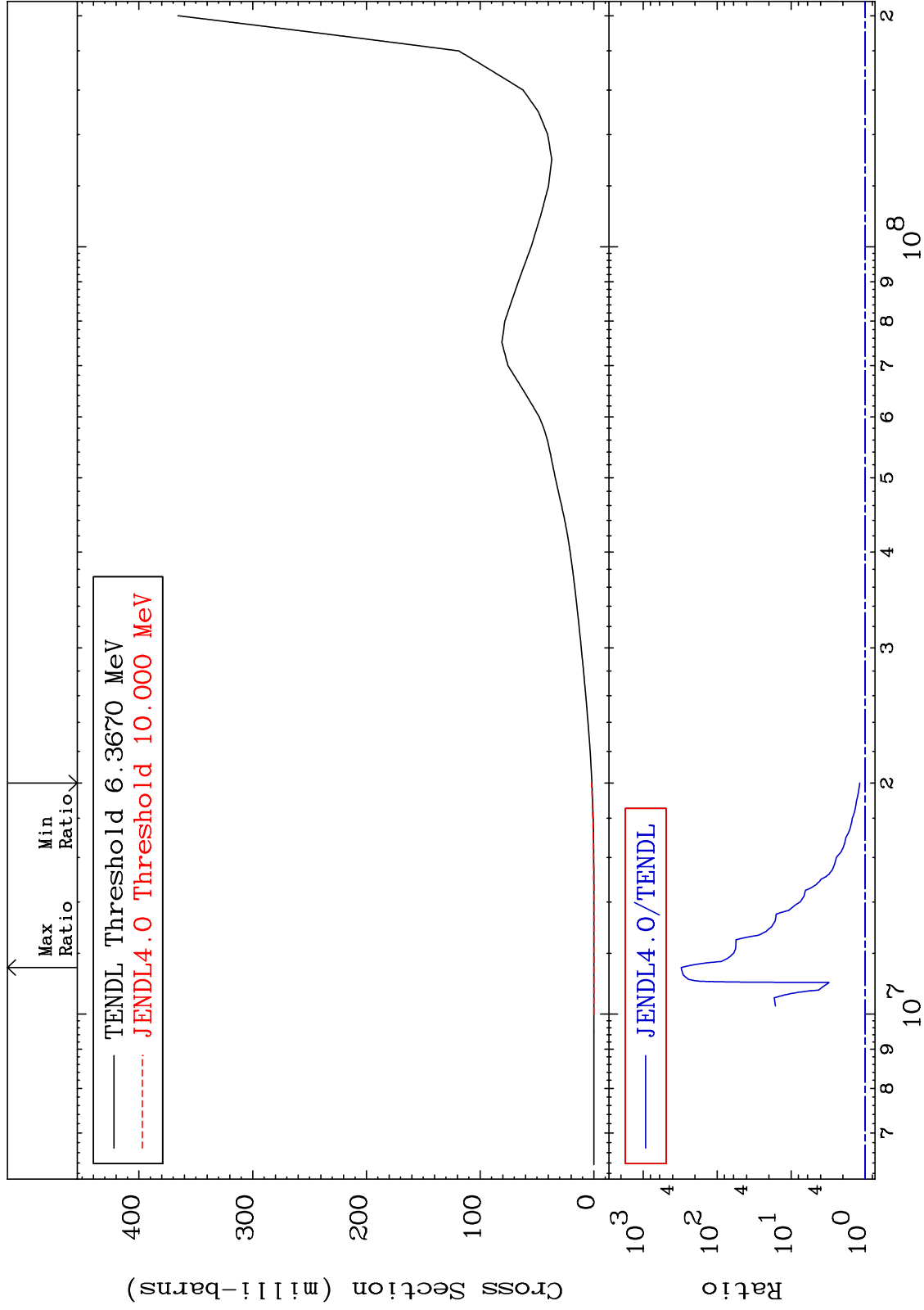
70-Yb-170
-57.62 To 3718. %



MAT 7031

Tritium Production
Cross Section

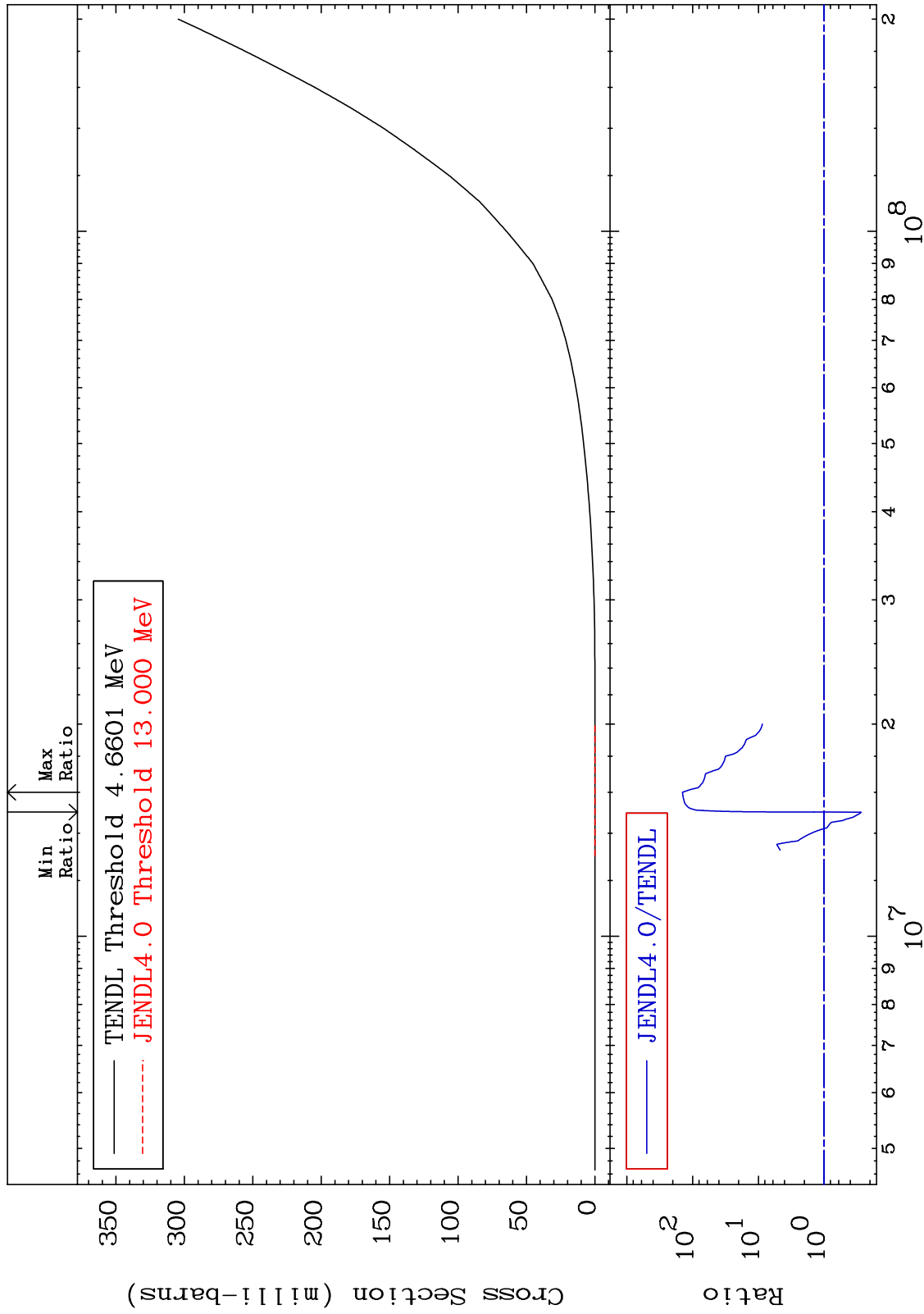
70-Yb-170
18.16 To 9999. %



MAT 7031

He-3 Production
Cross Section

70-Yb-170
-72.80 To 9999. %



29

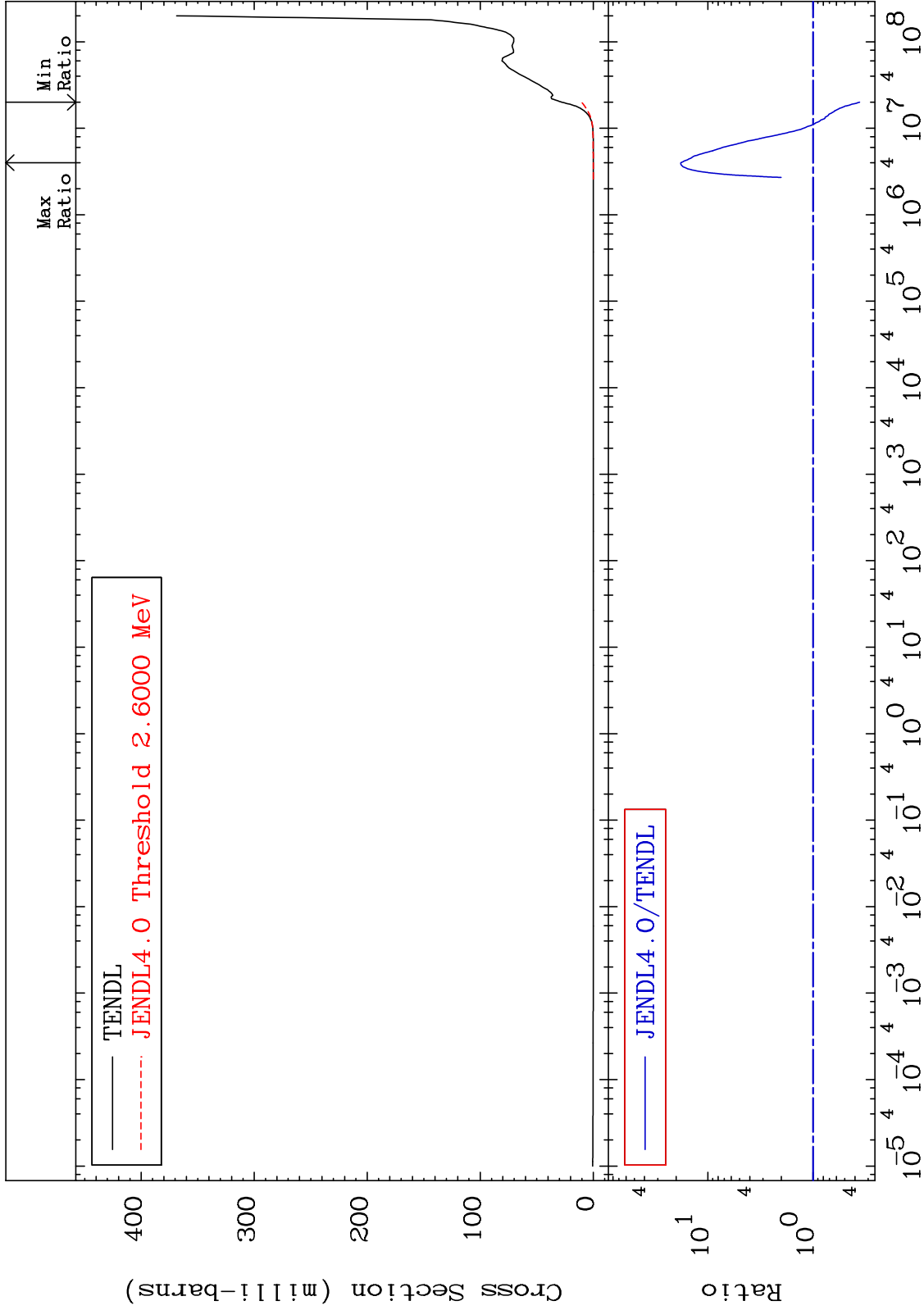
Incident Energy (eV)

70-Yb-170

MAT 7031

He-4 Production
Cross Section

70-Yb-170
-63.91 To 1708. %

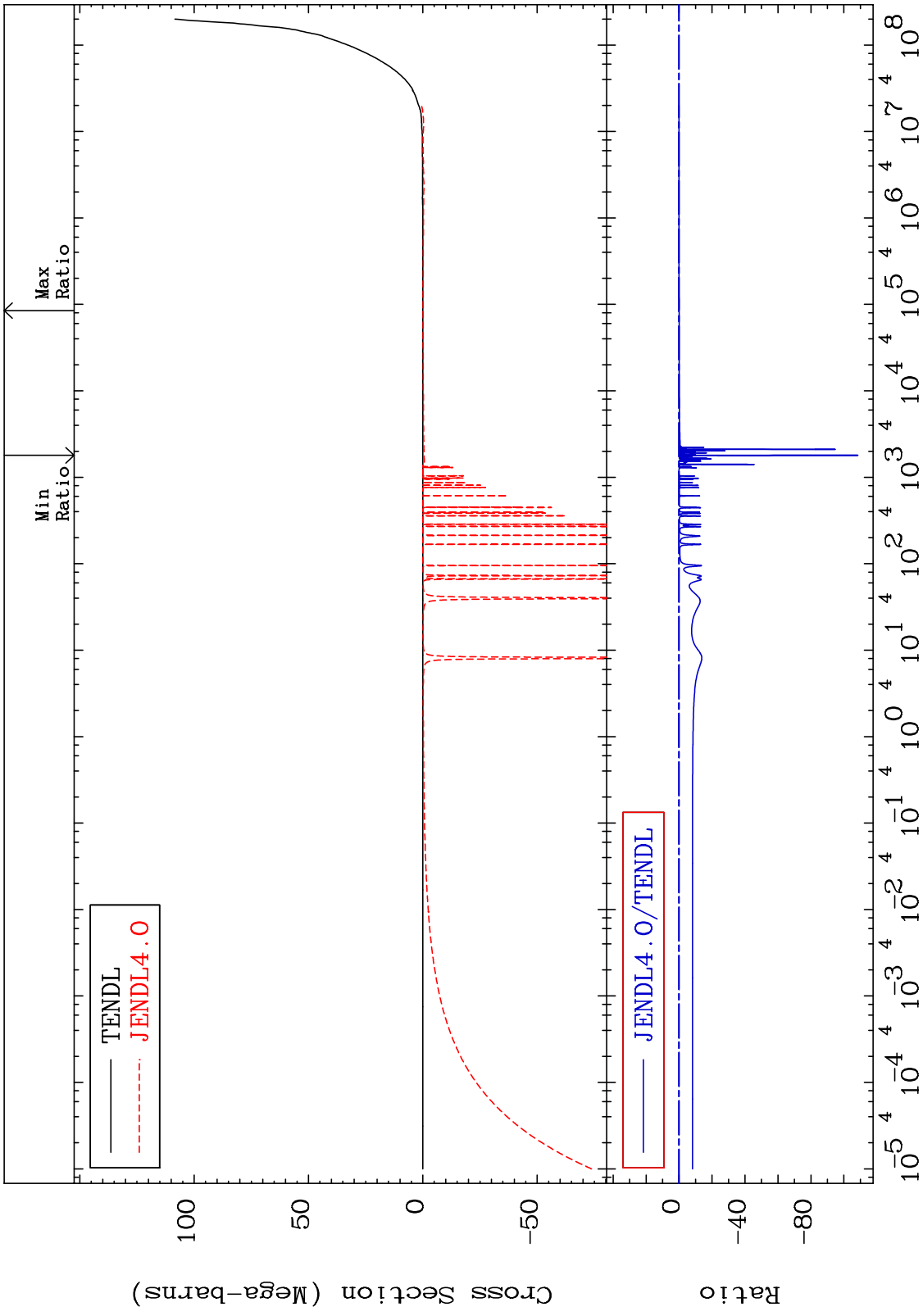


30

Incident Energy (eV)

70-Yb-170

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

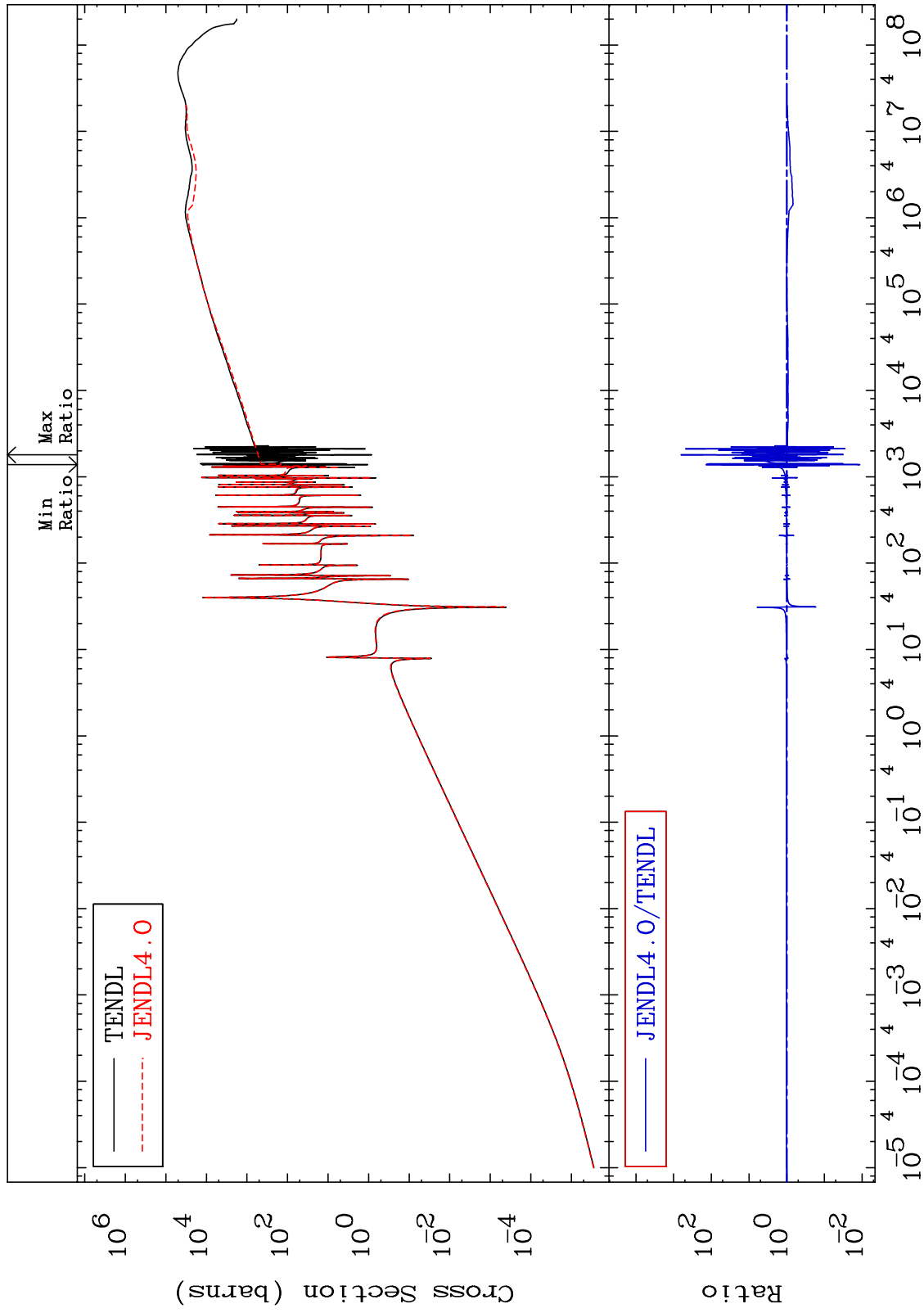


31 Incident Energy (eV) 70-Yb-170

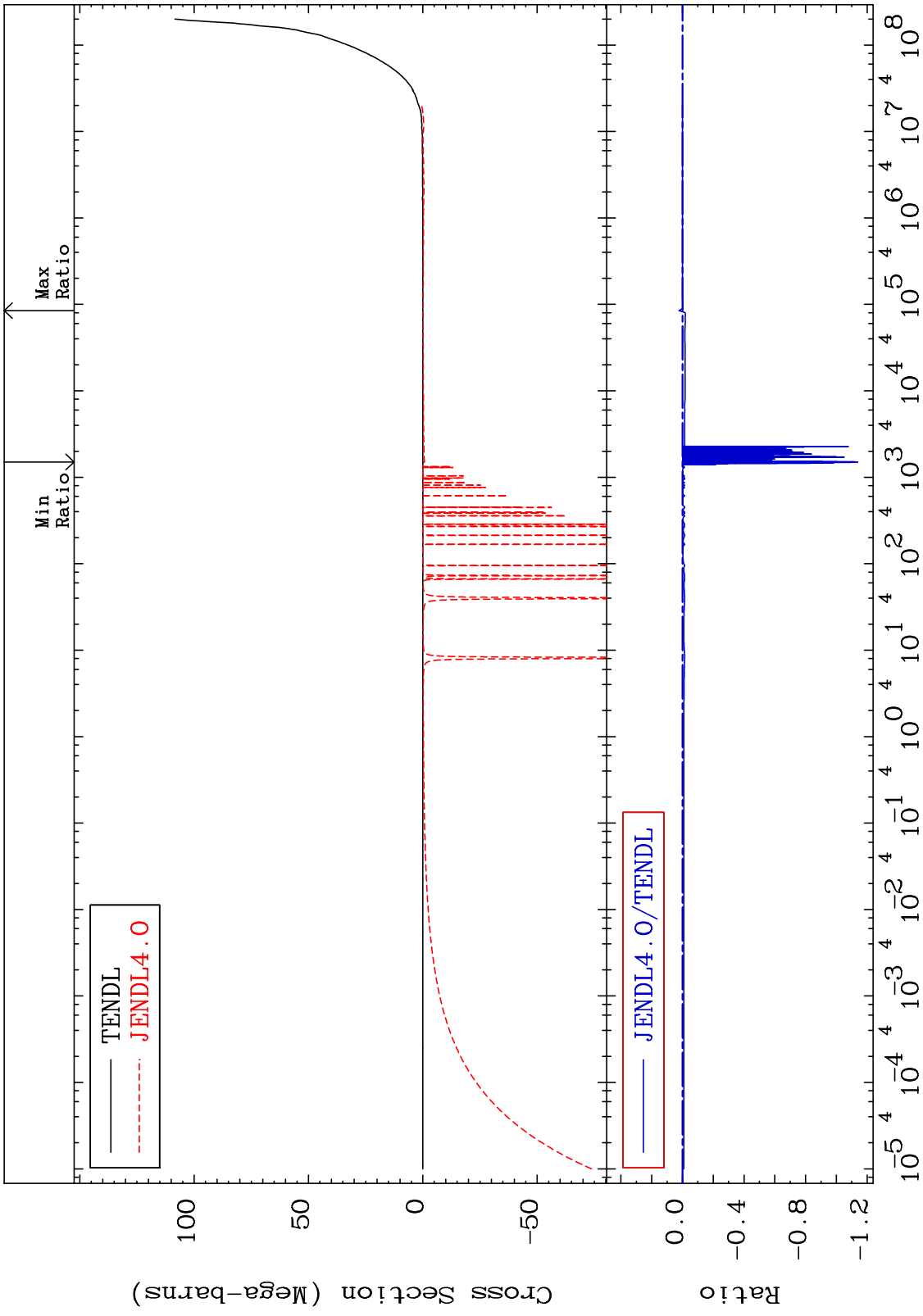
MAT 7031

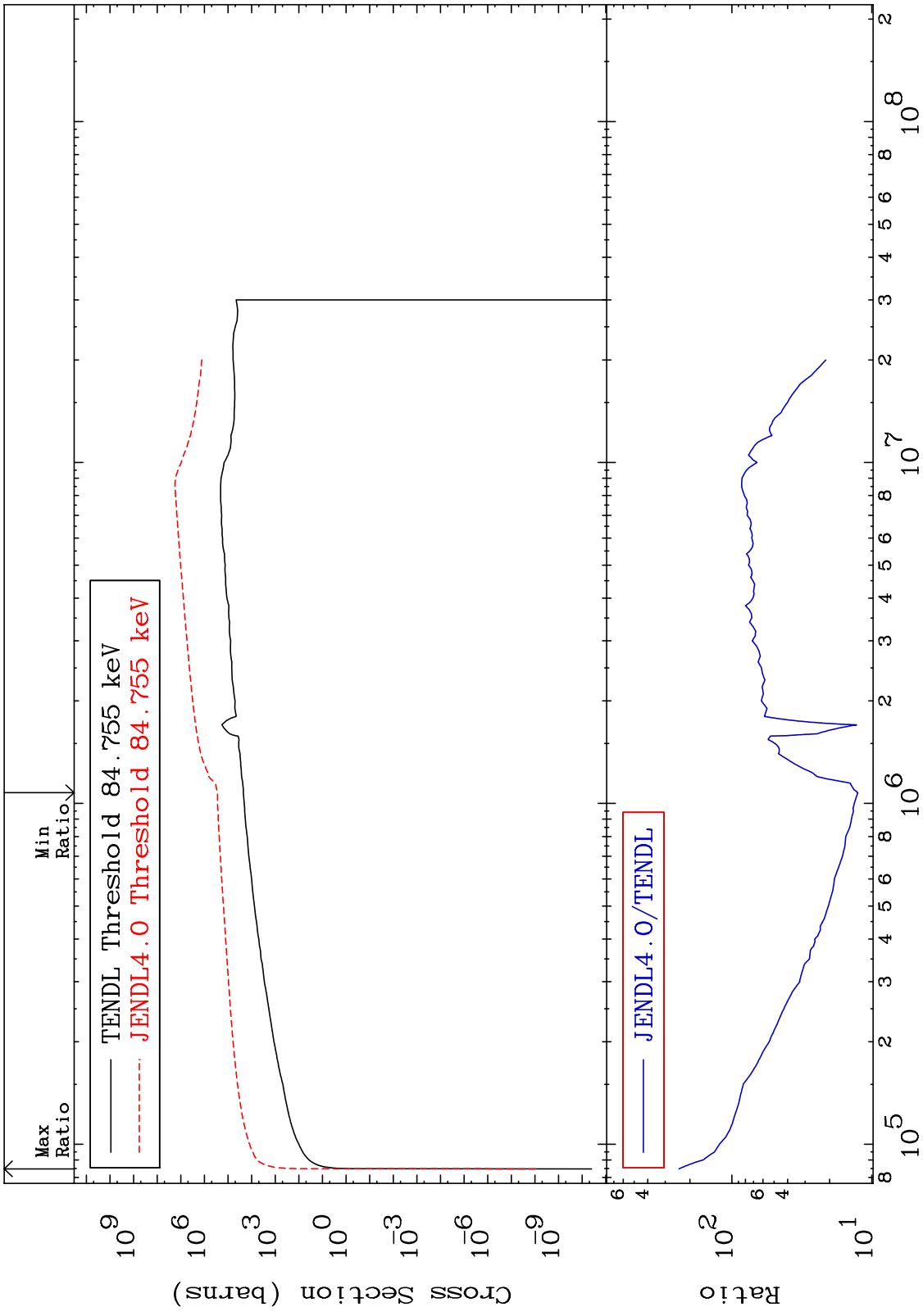
Kerma elastic
Cross Section

70-Yb-170
-98.84 To 9999. %



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

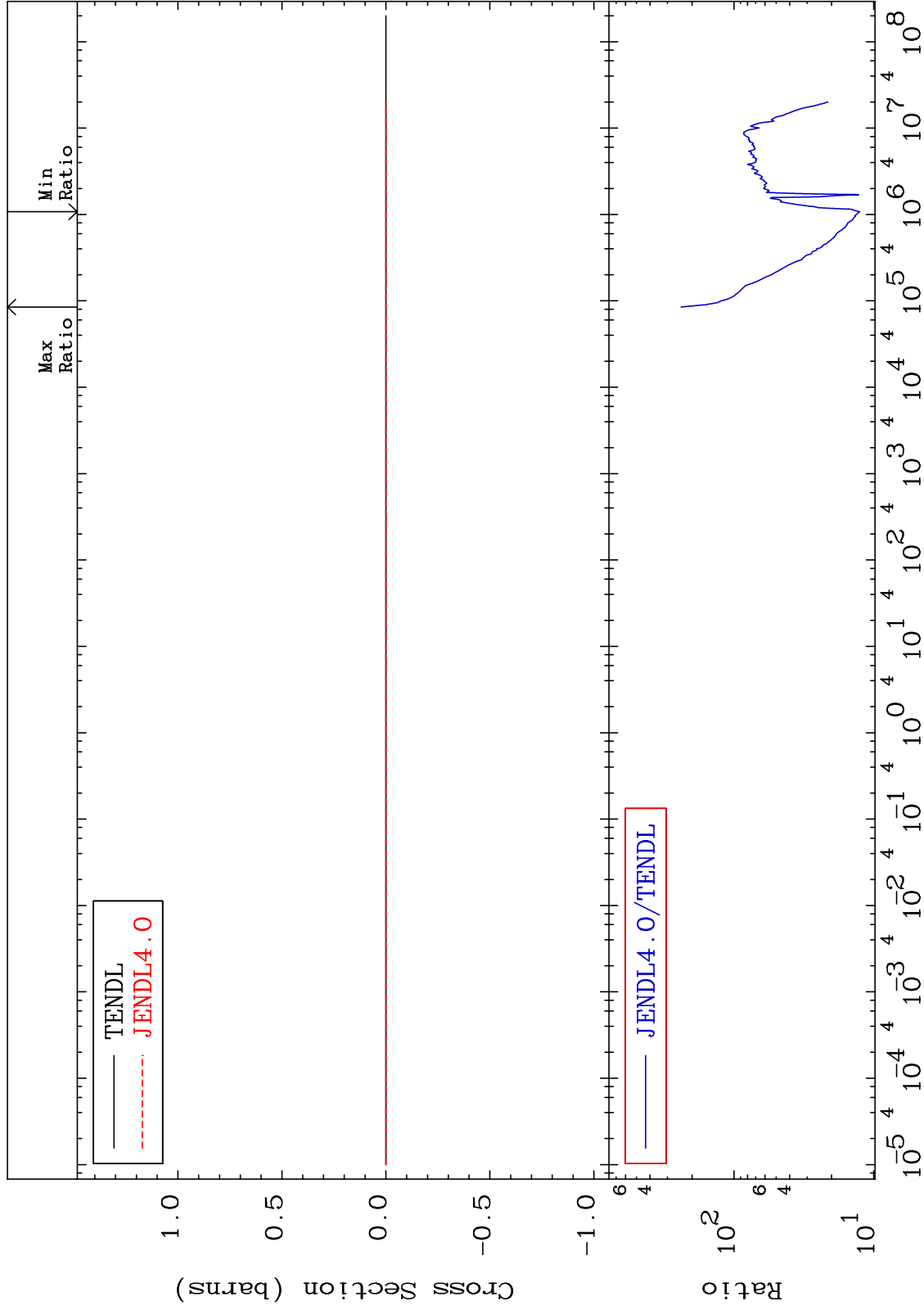




MAT 7031

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

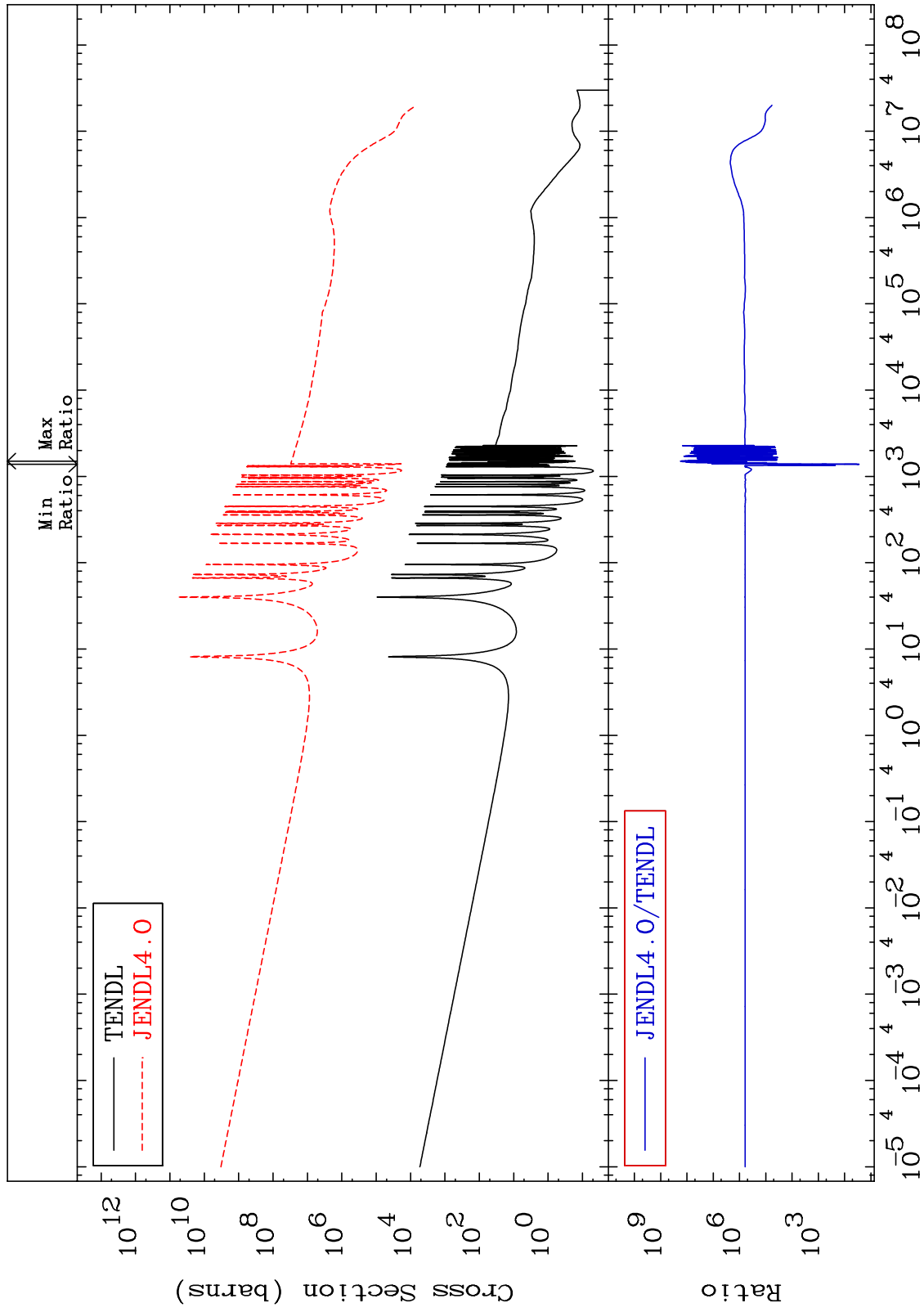
70-Yb-170
1157. To 9999. %



MAT 7031

Kerma capture (mt102)
Cross Section

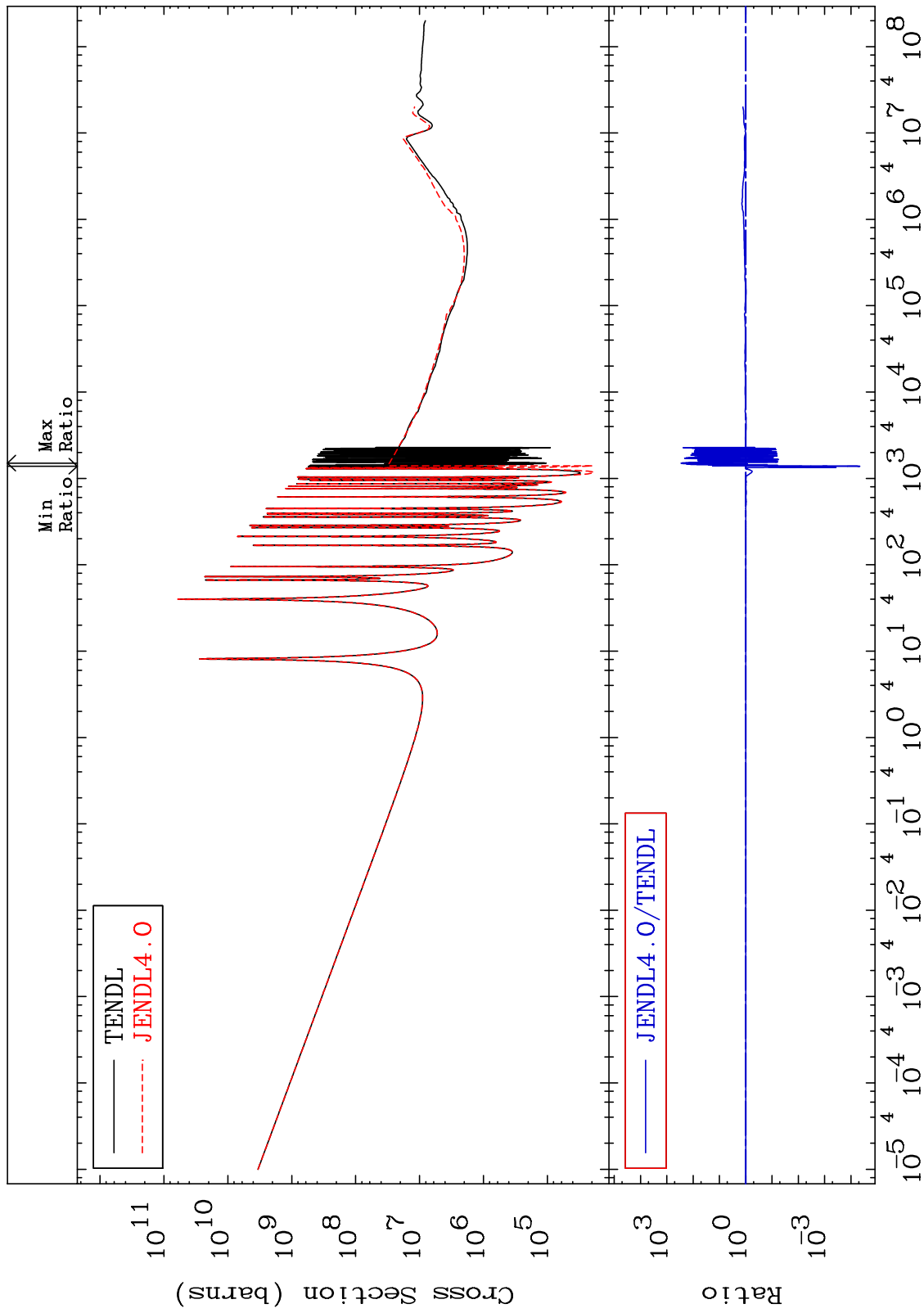
70-Yb-170
2733. To 9999. %



MAT 7031

Total photon (eV-barns)
Cross Section

70-Yb-170
-100.0 To 9999. %

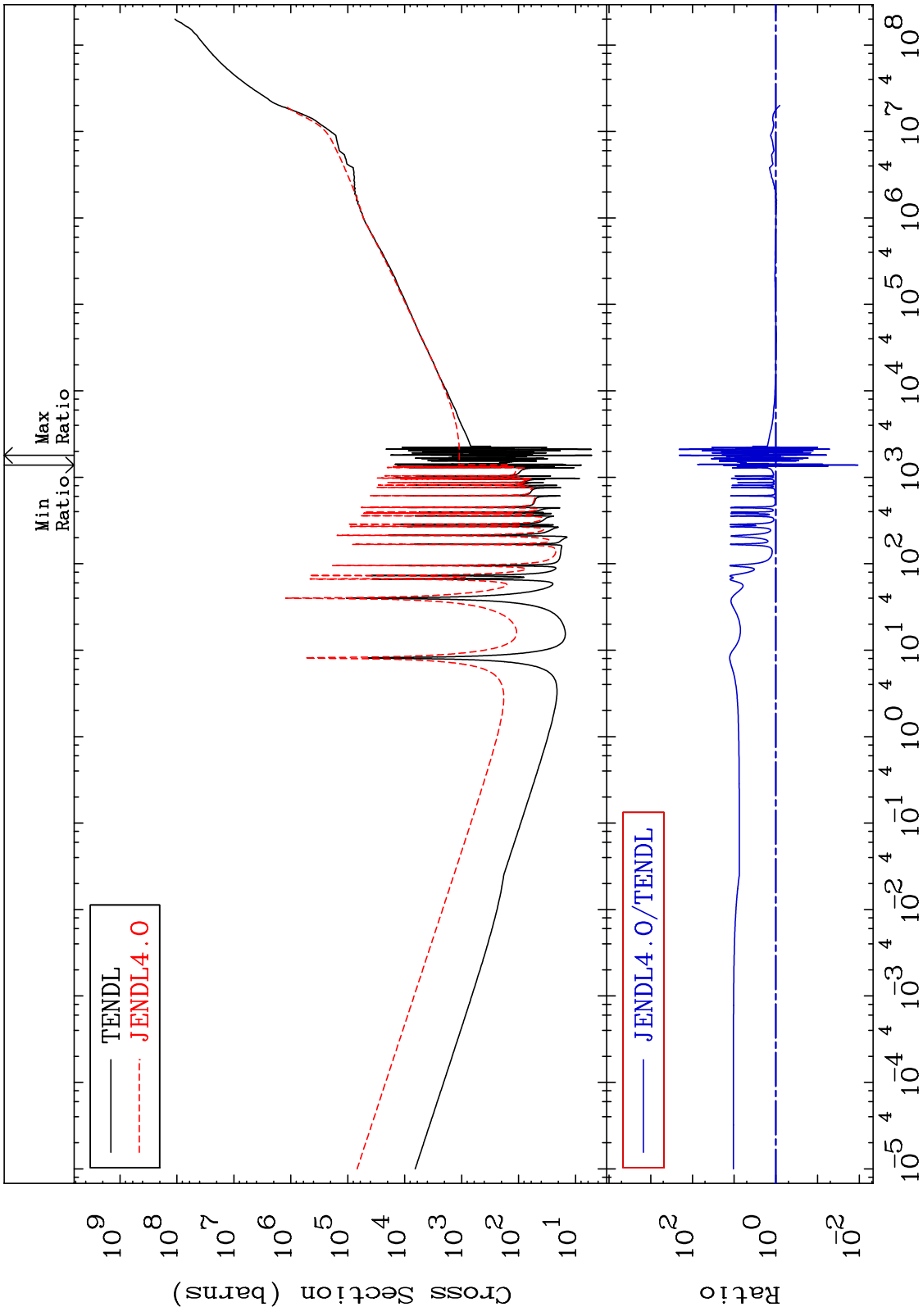


37

Incident Energy (eV)

70-Yb-170

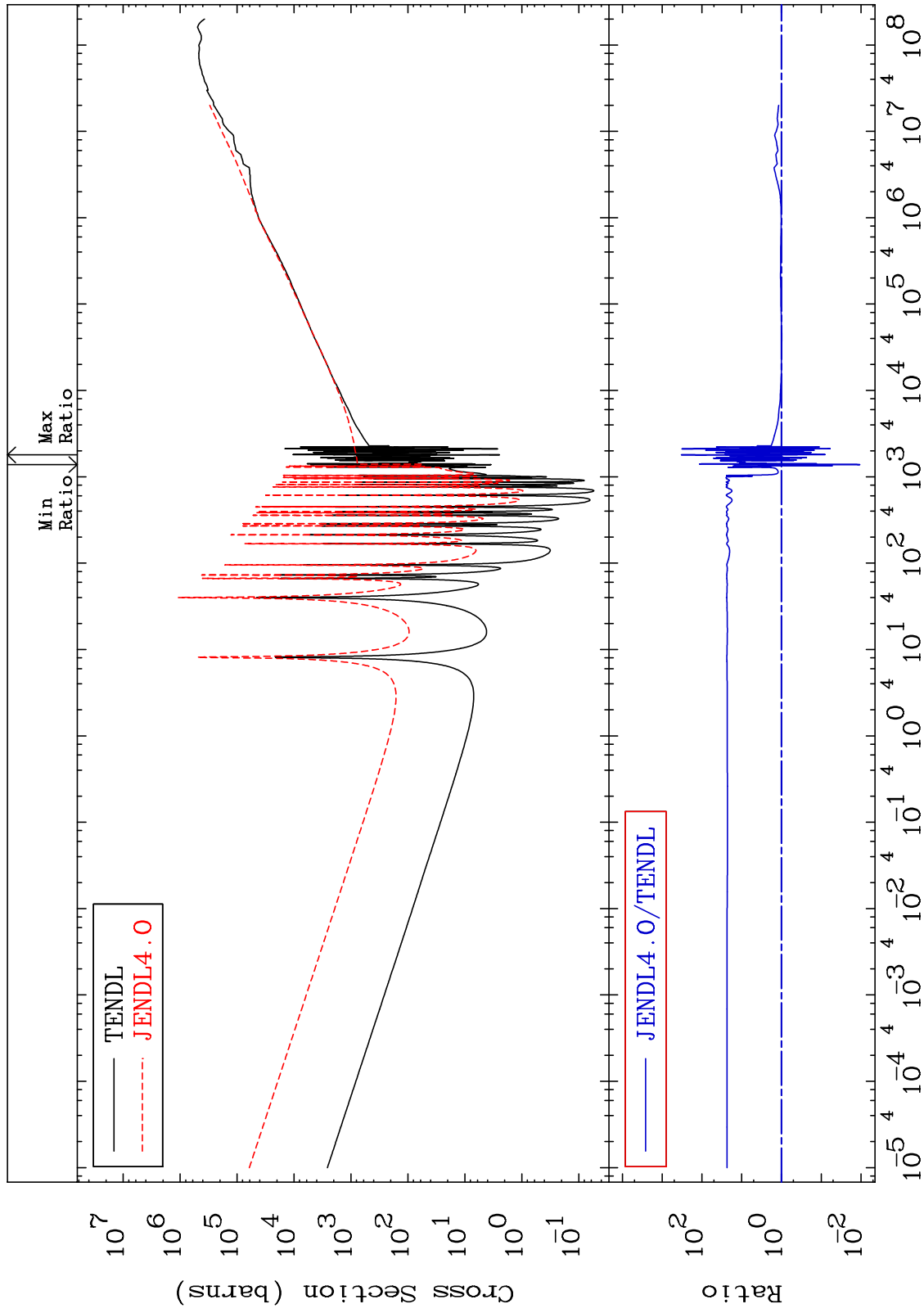
MAT 7031 Total kinematic kerma (high limit) 70-Yb-170
 Cross Section -98.91 To 9999. %



MAT 7031

Dpa total (eV-barns)
Cross Section

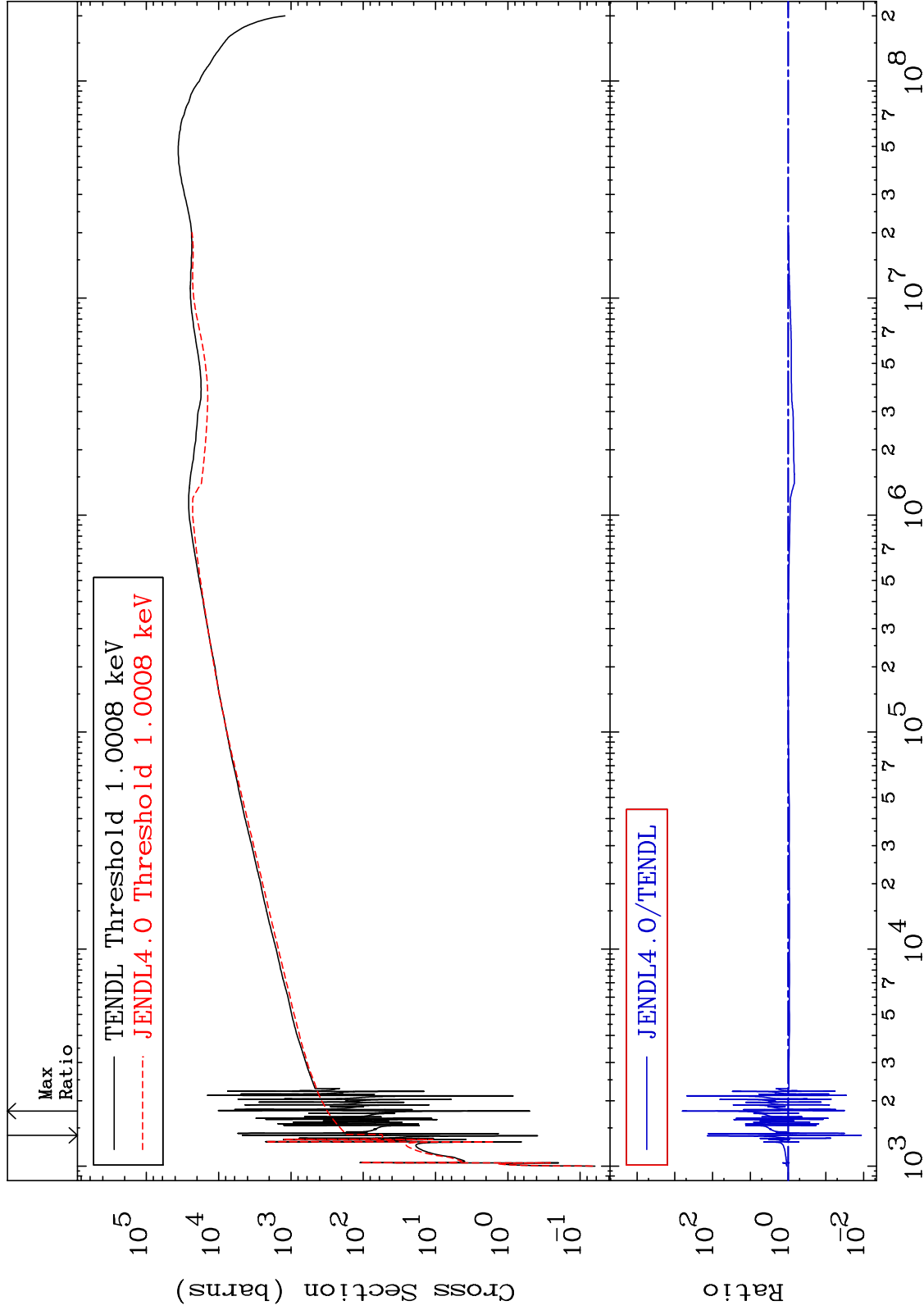
70-Yb-170
-98.93 To 9999. %



MAT 7031

Dpa elastic (mt2)
Cross Section

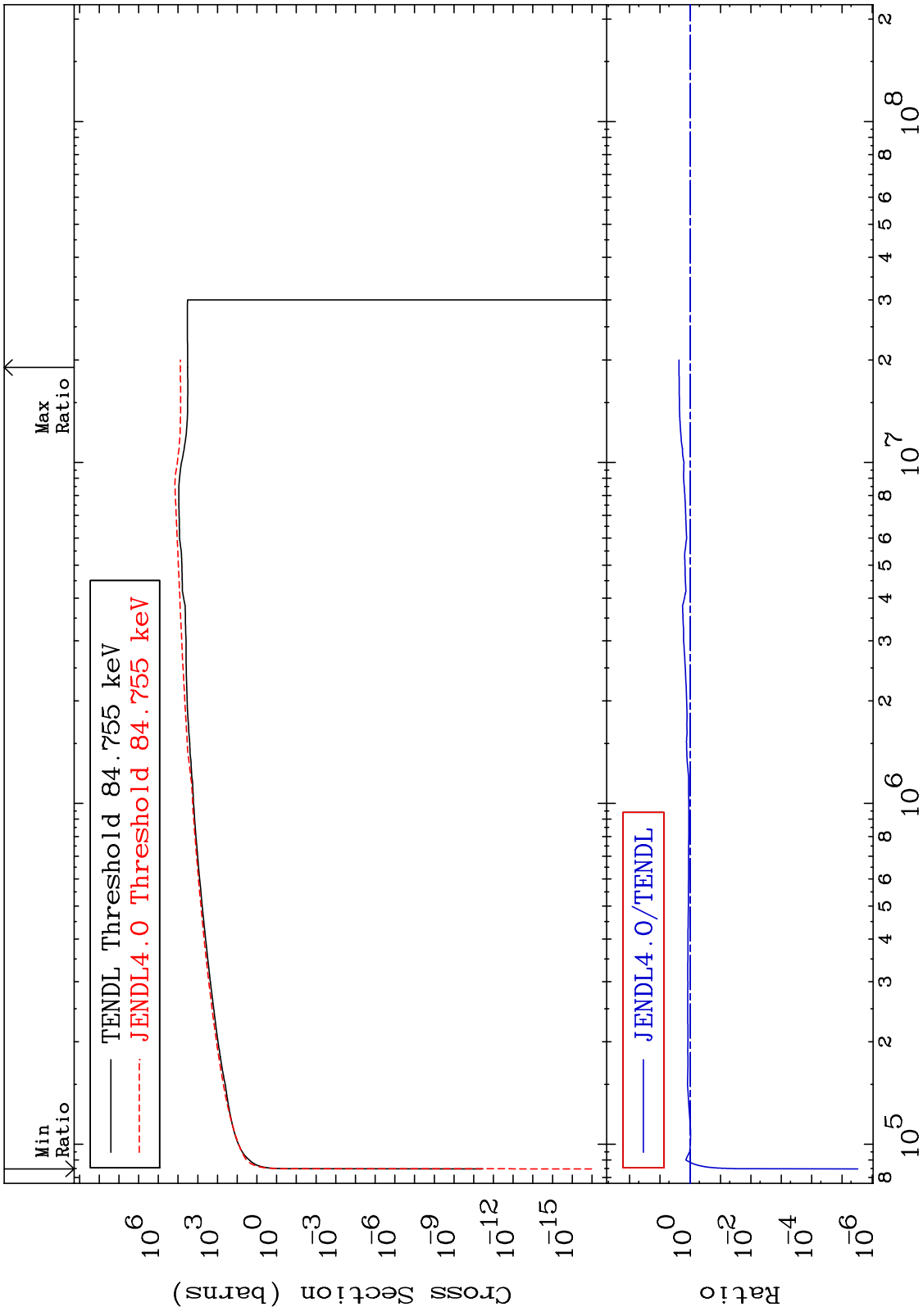
70-Yb-170
-98.84 To 9999. %



40

70-Yb-170

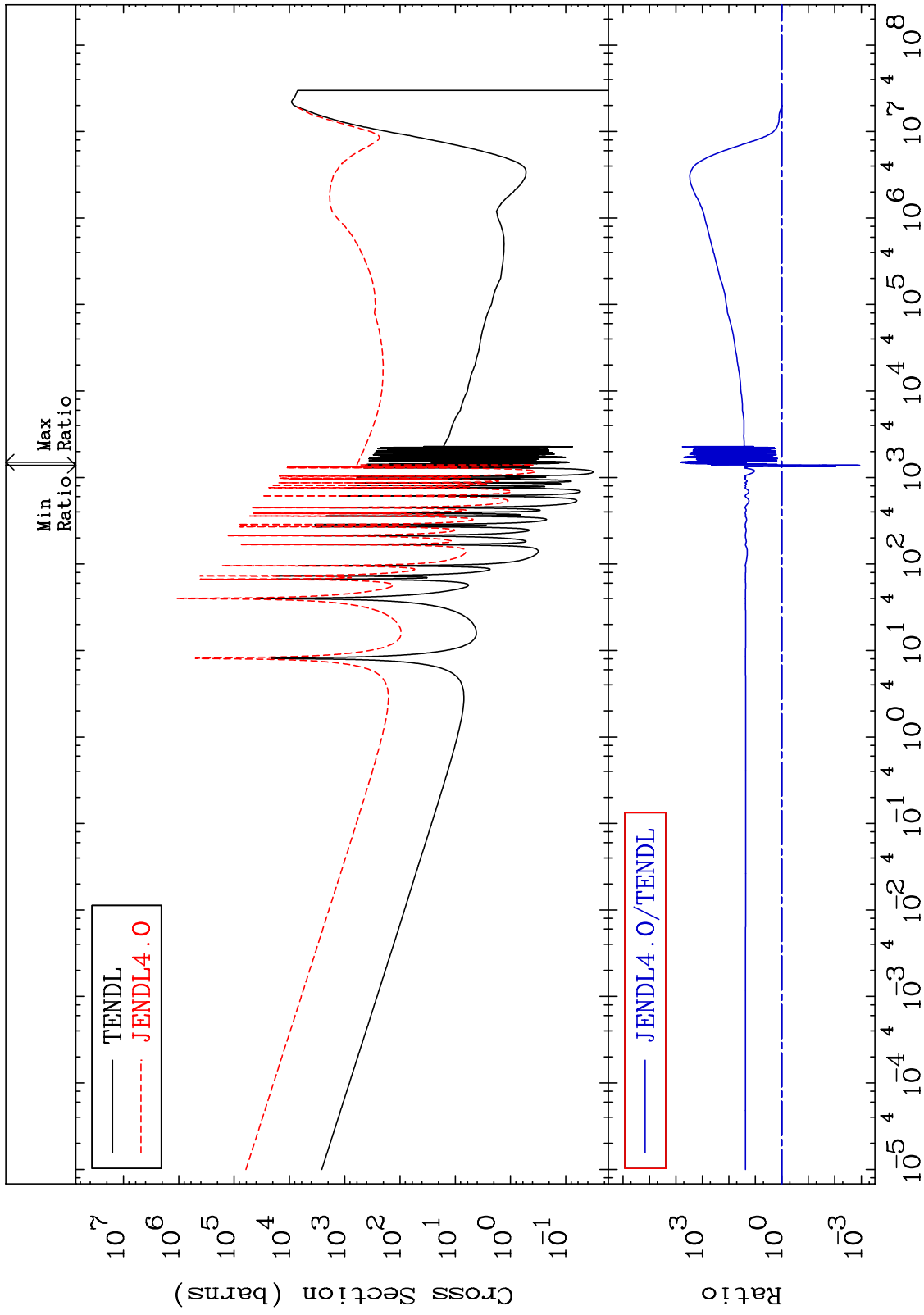
MAT 7031 Dpa inelastic (mt51-91) 70-Yb-170
 Cross Section -100.0 To 133.8 %



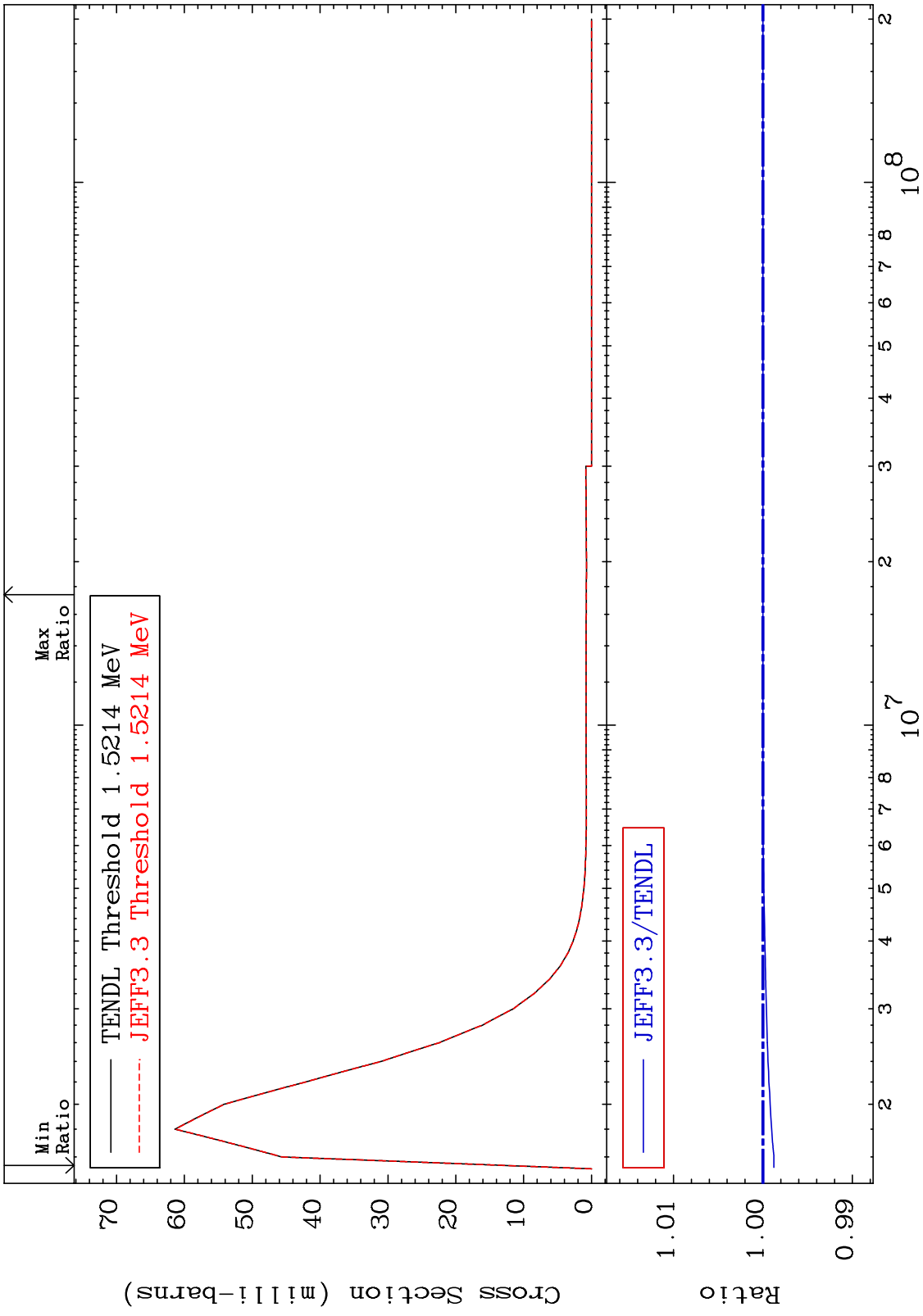
MAT 7031

Dpa disappearance (mt102 -120)
Cross Section

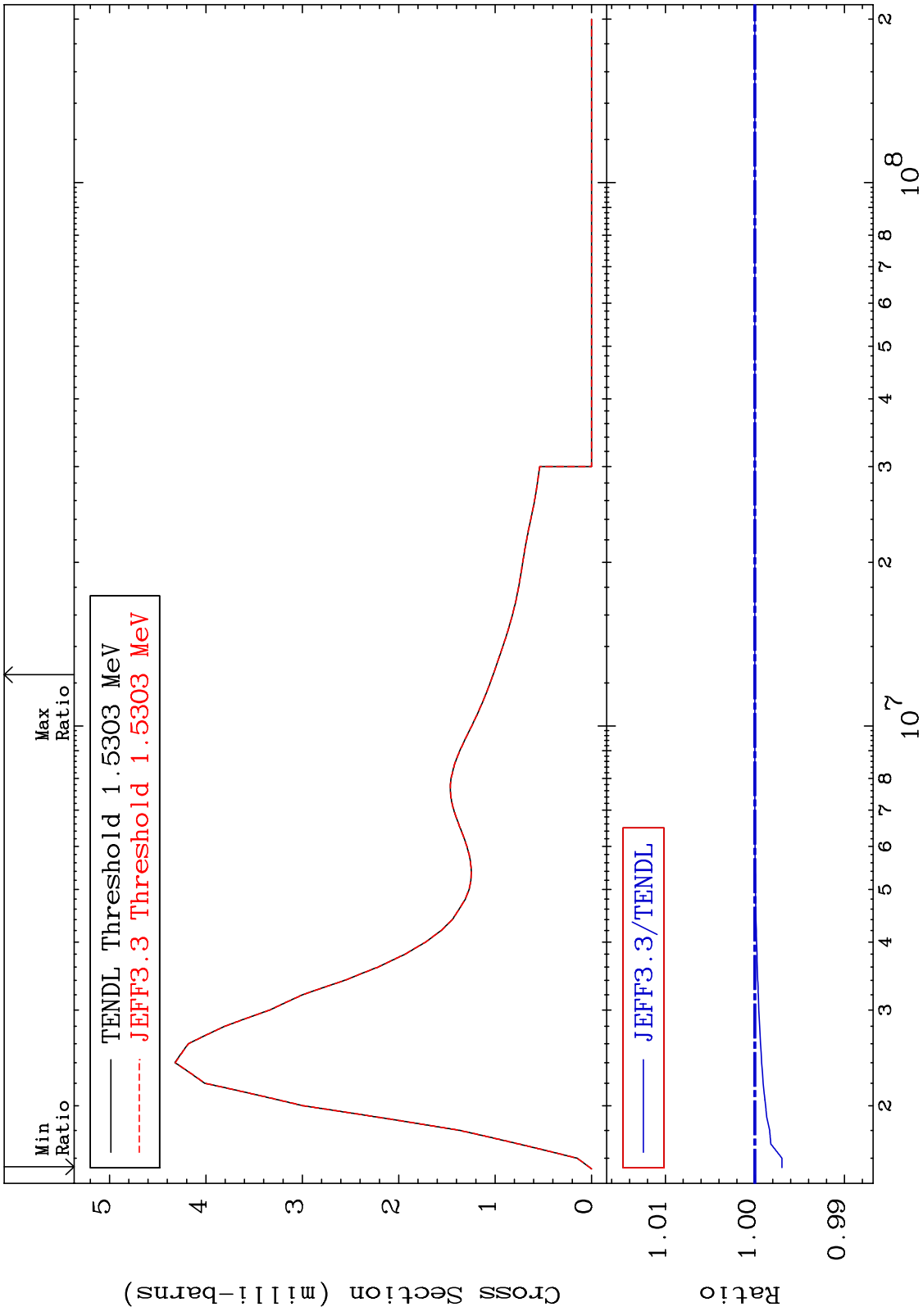
70-Yb-170
-99.89 To 9999. %



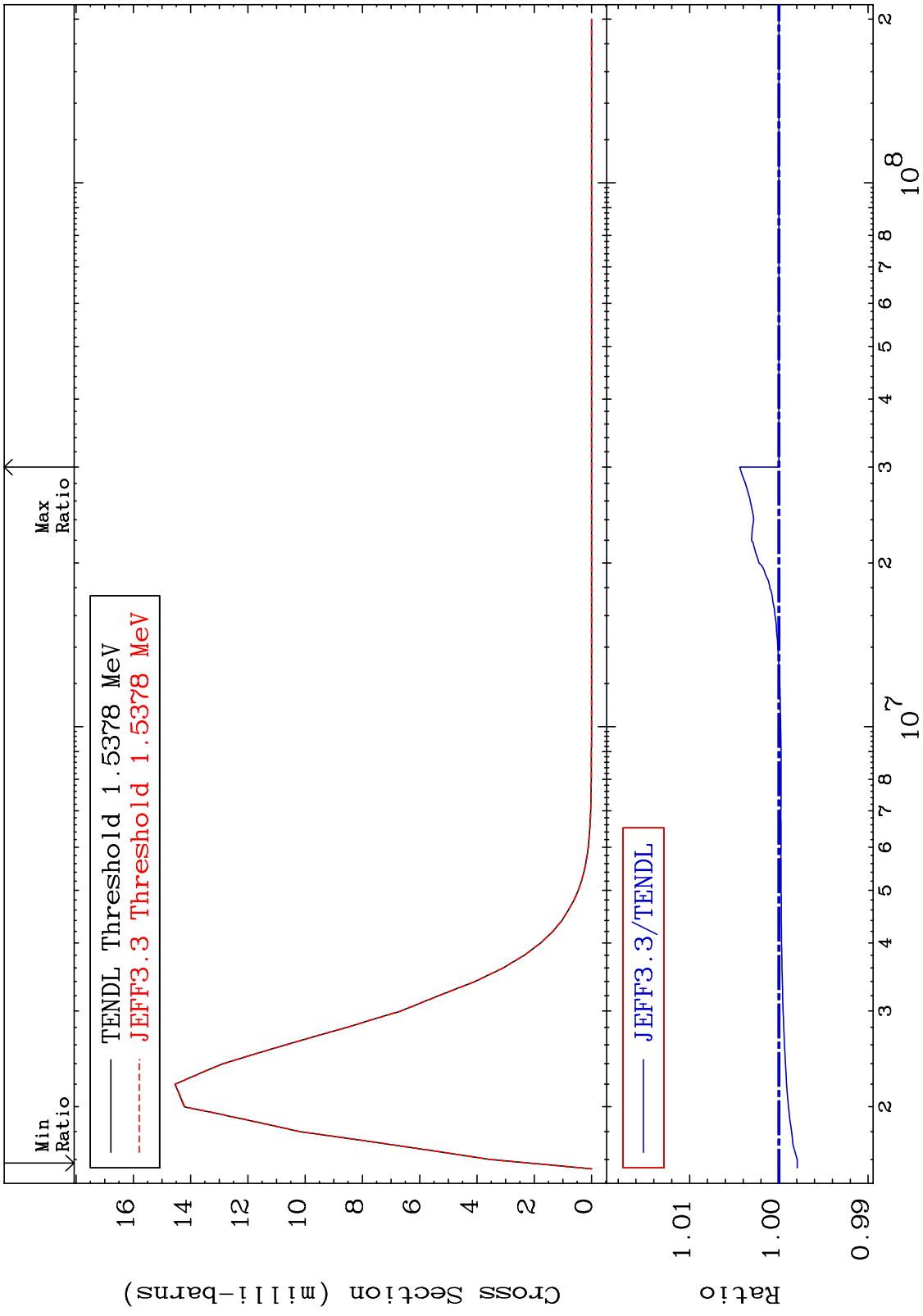
MAT 7031 MT= 74 (n,n') Level Cross Section 70-Yb-170 -0.123 To 0.000 %



MAT 7031 MT= 75 (n,n') Level Cross Section 70-Yb-170
 -0.304 To 0.000 %



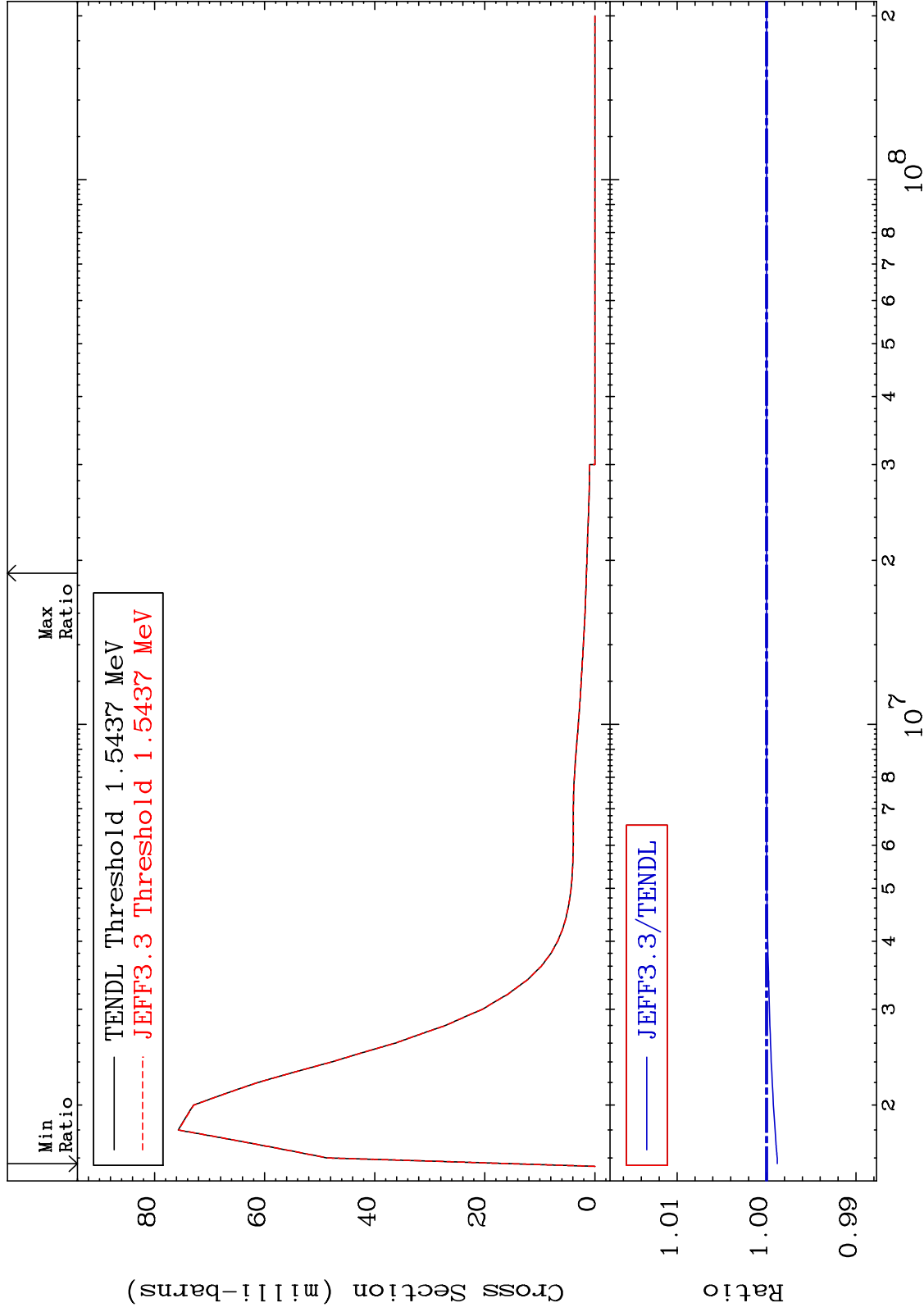
MAT 7031 MT= 76 (n,n') Level Cross Section 70-Yb-170
 -0.205 To 0.439 %



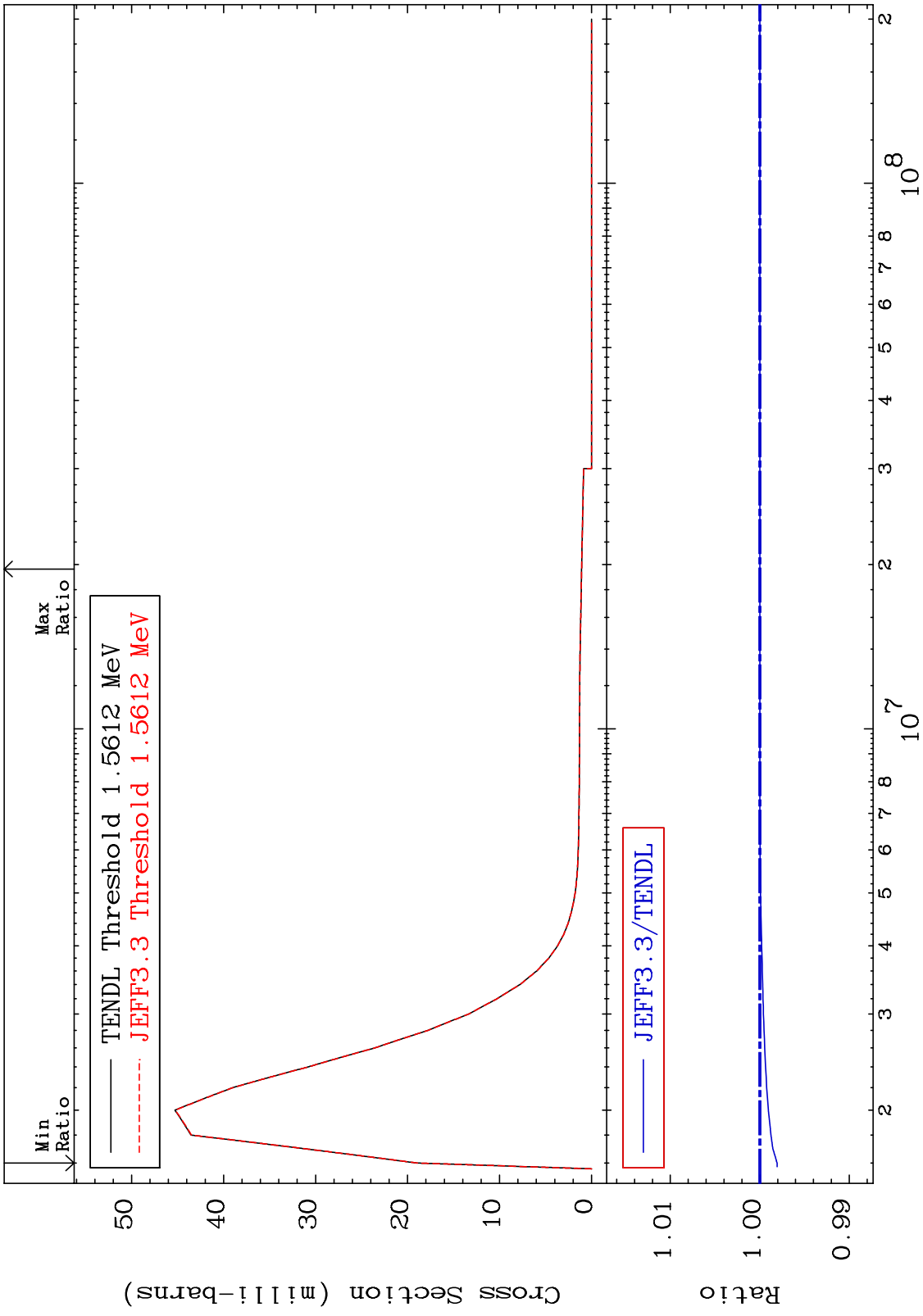
MAT 7031

MT= 77 (n,n') Level
Cross Section

70-Yb-170
-0.119 To 0.000 %



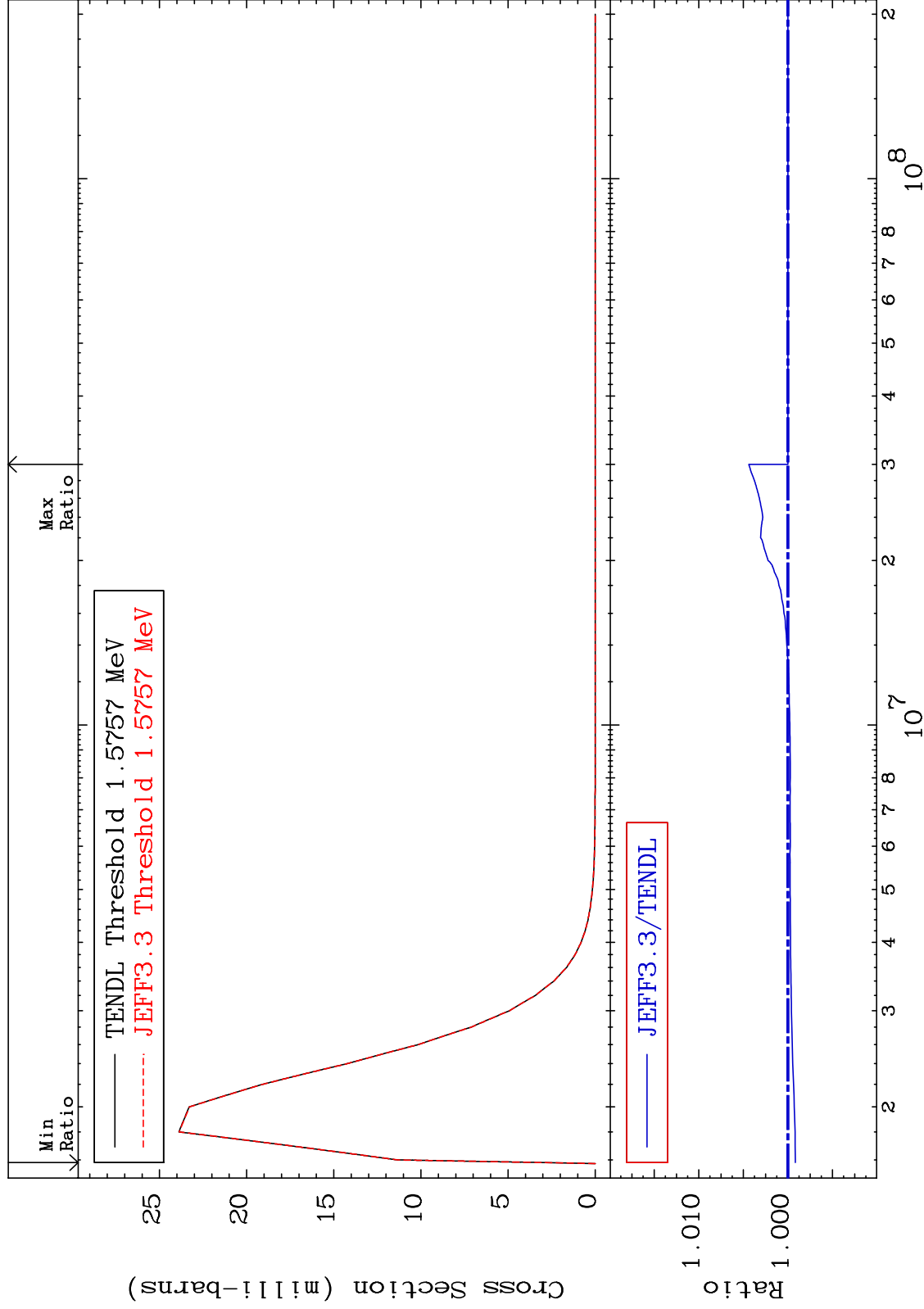
MAT 7031 MT= 78 (n,n') Level Cross Section 70-Yb-170
 -0.193 To 0.000 %



MAT 7031

MT= 79 (n,n') Level
Cross Section

70-Yb-170
-0.083 To 0.440 %

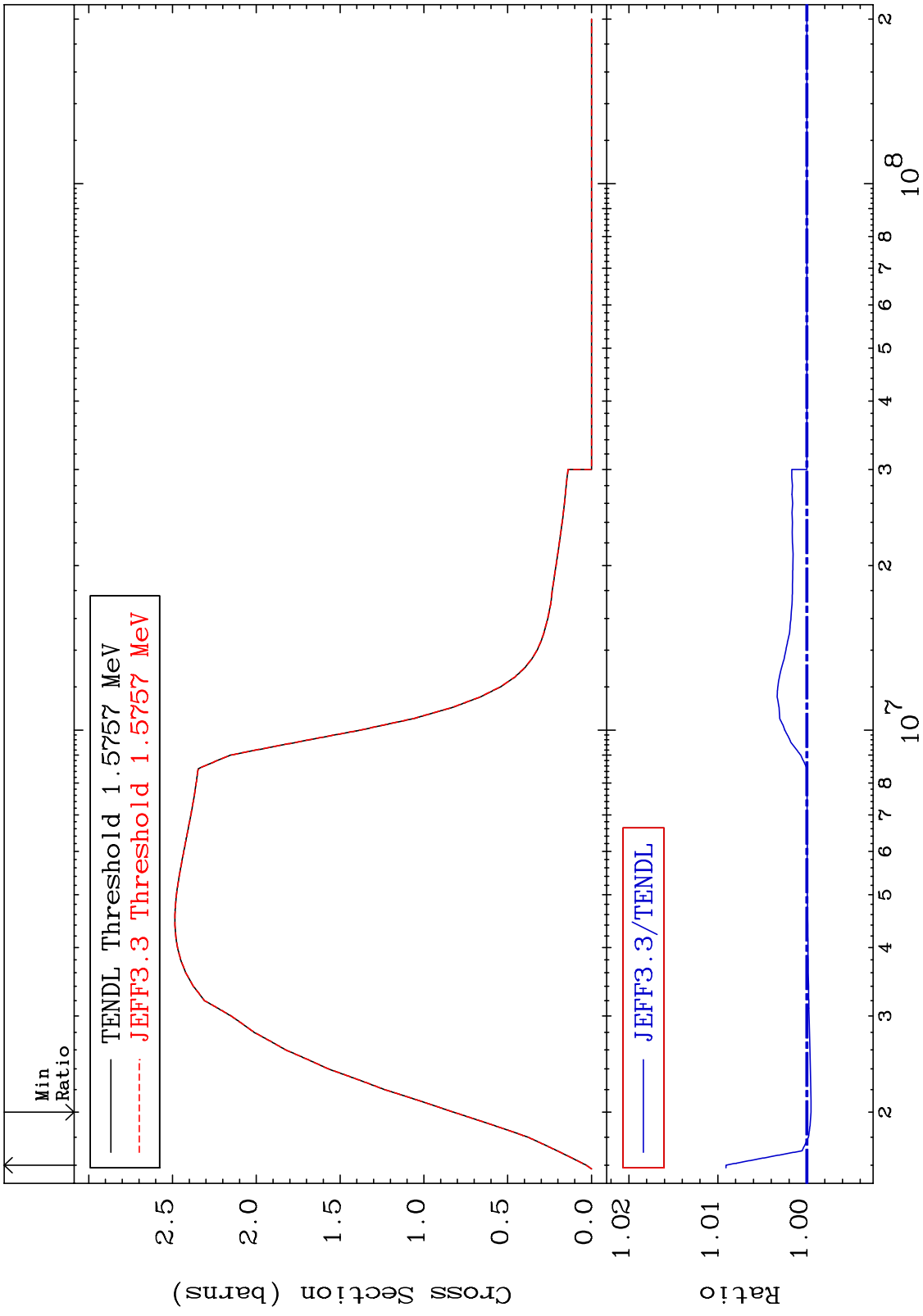


48

Incident Energy (eV)

70-Yb-170

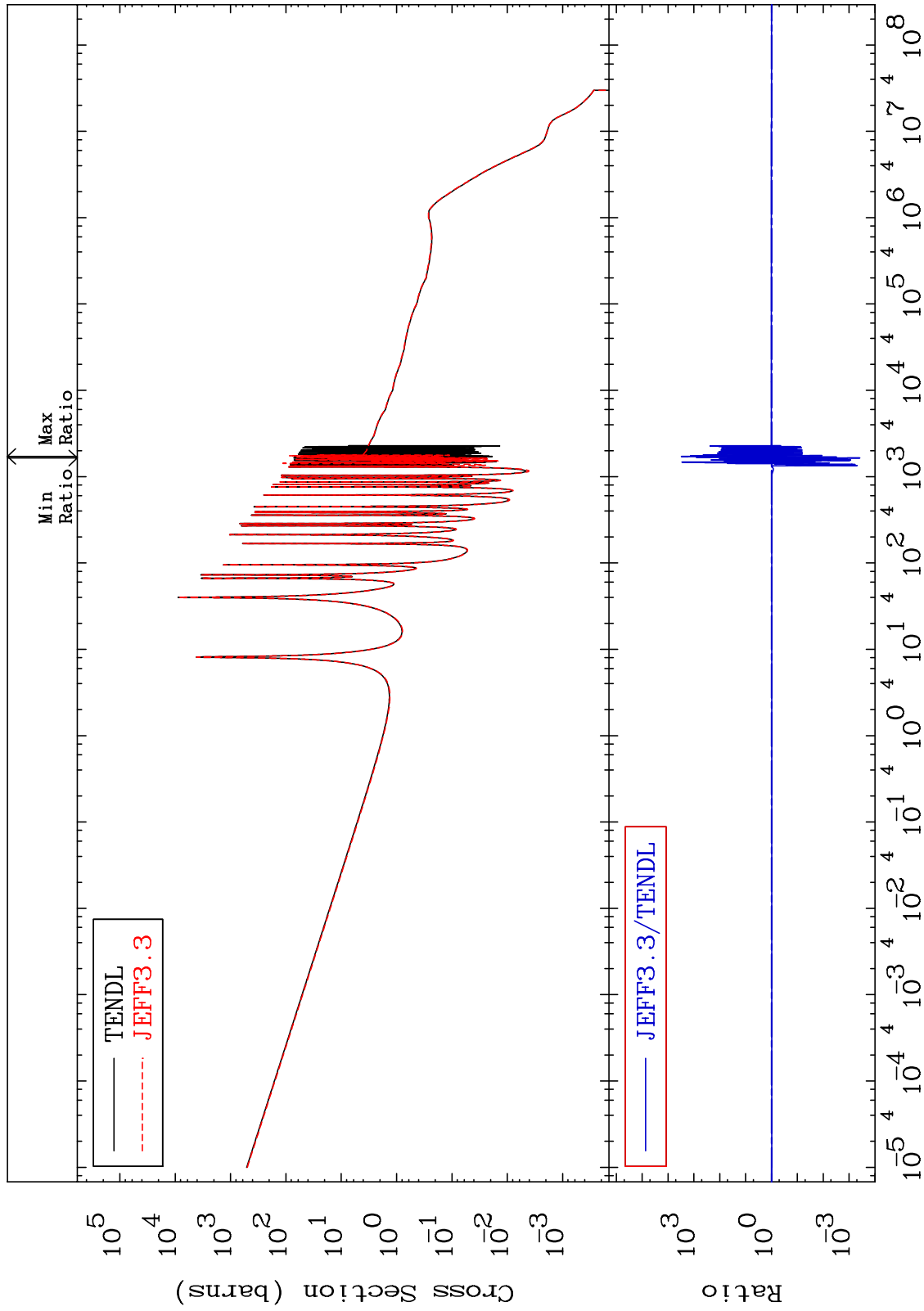
MAT 7031 (n, n') Continuum Cross Section 70-Yb-170 -0.046 To 0.909 %



MAT 7031

(n, γ)
Cross Section

70-Yb-170
-99.96 To 9999. %



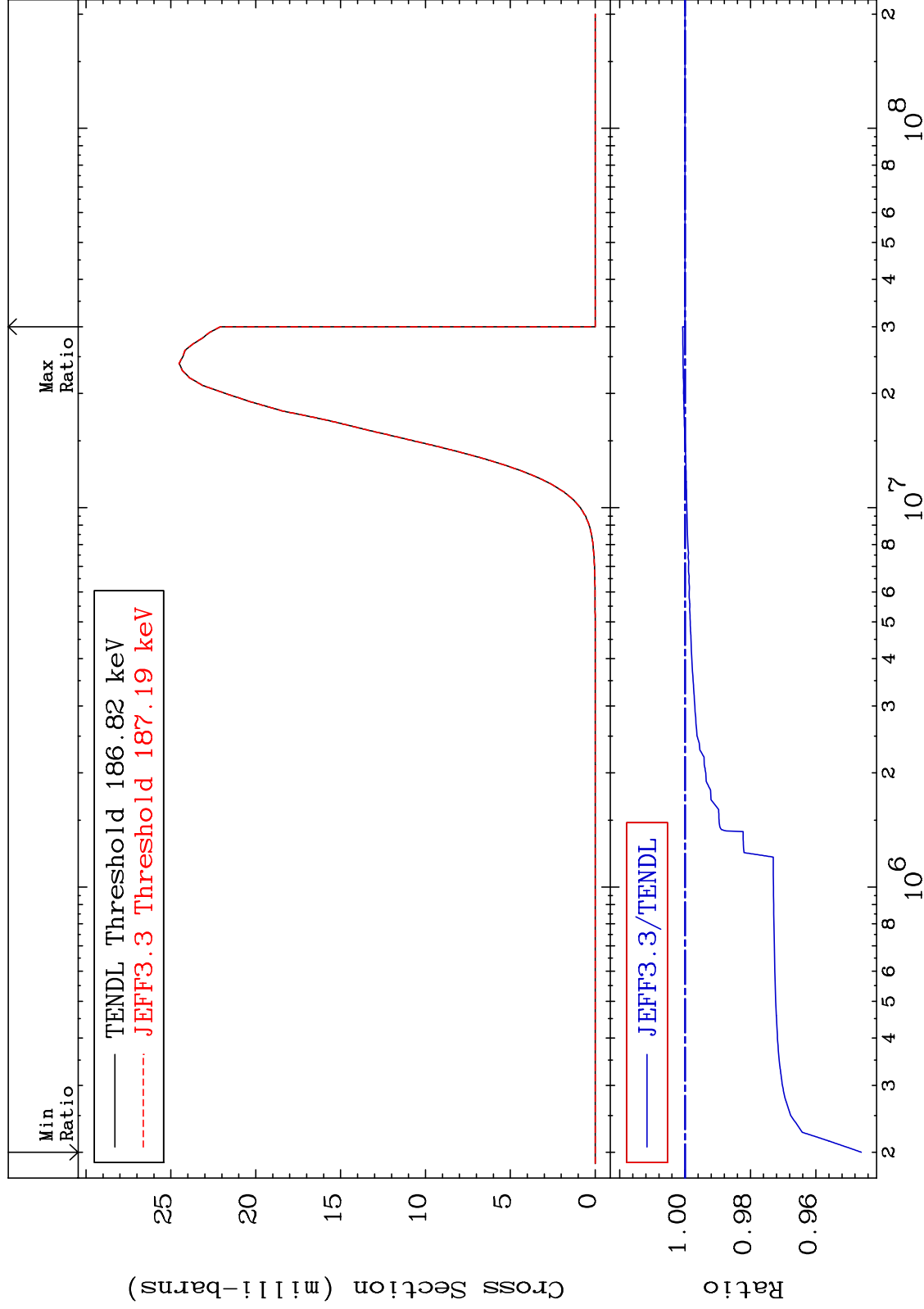
MAT 7031

(n,p)

70-Yb-170

Cross Section

-5.393 To 0.073 %

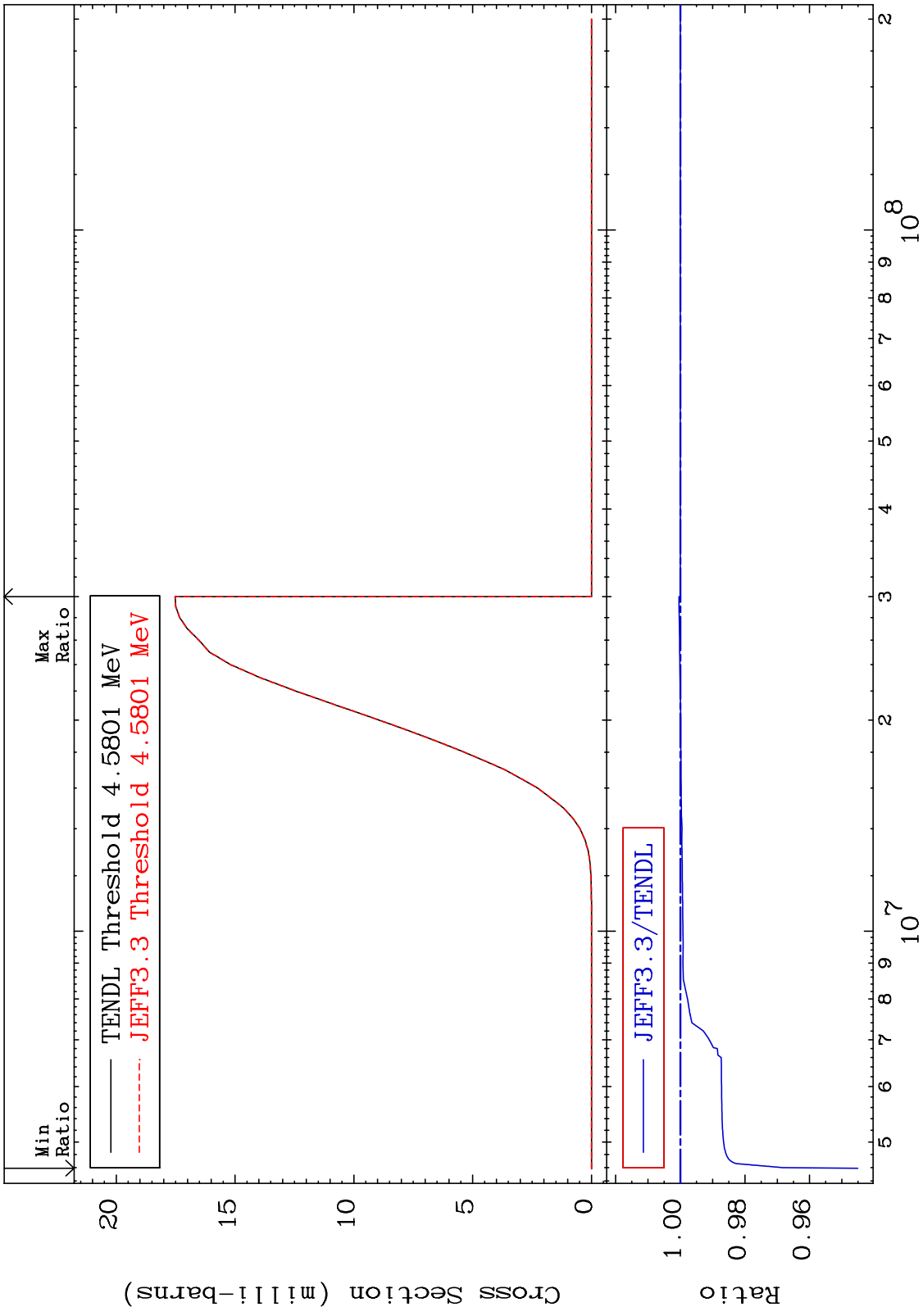


51

Incident Energy (eV)

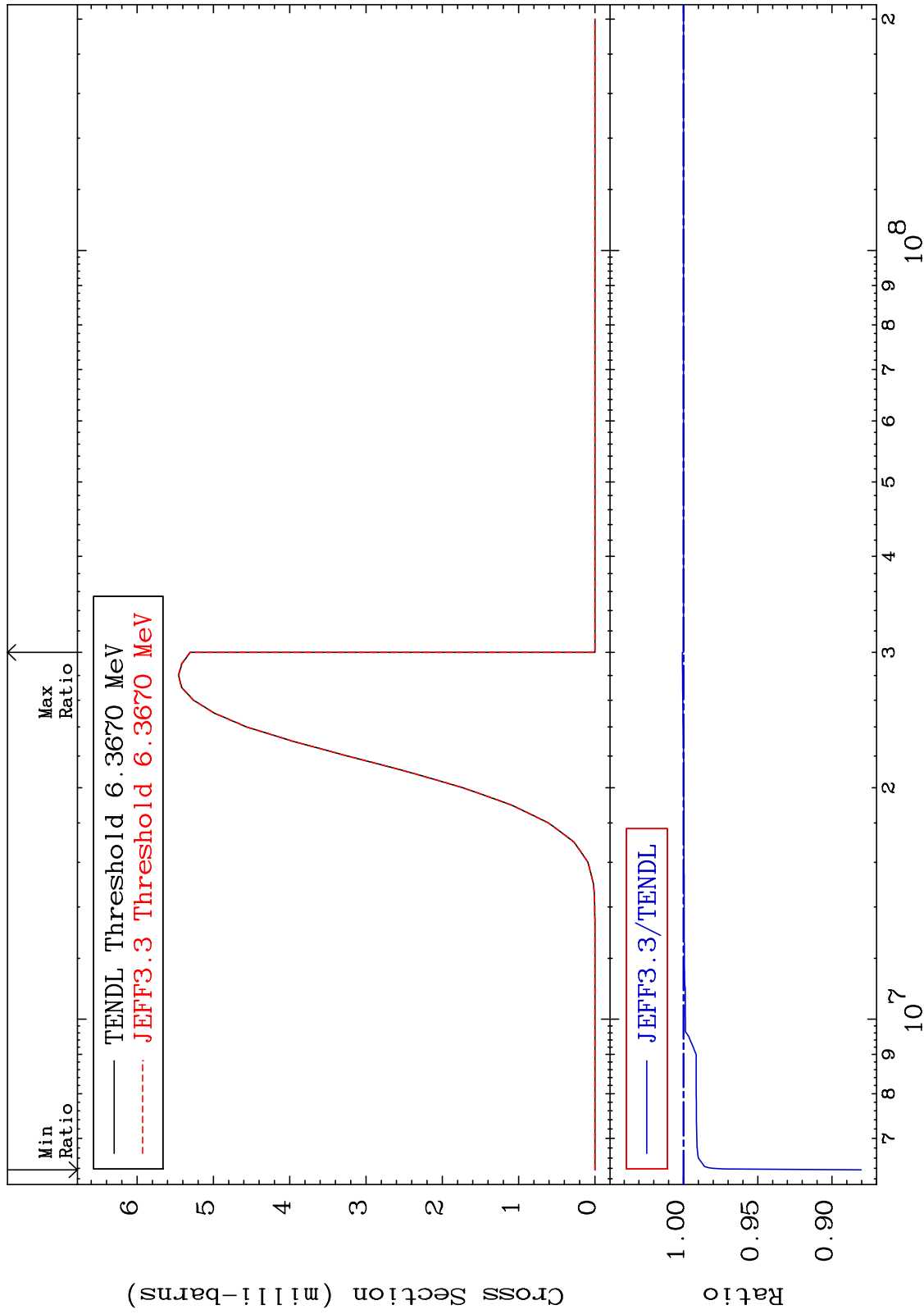
70-Yb-170

MAT 7031 (n,d) 70-Yb-170
 Cross Section -5.493 To 0.039 %

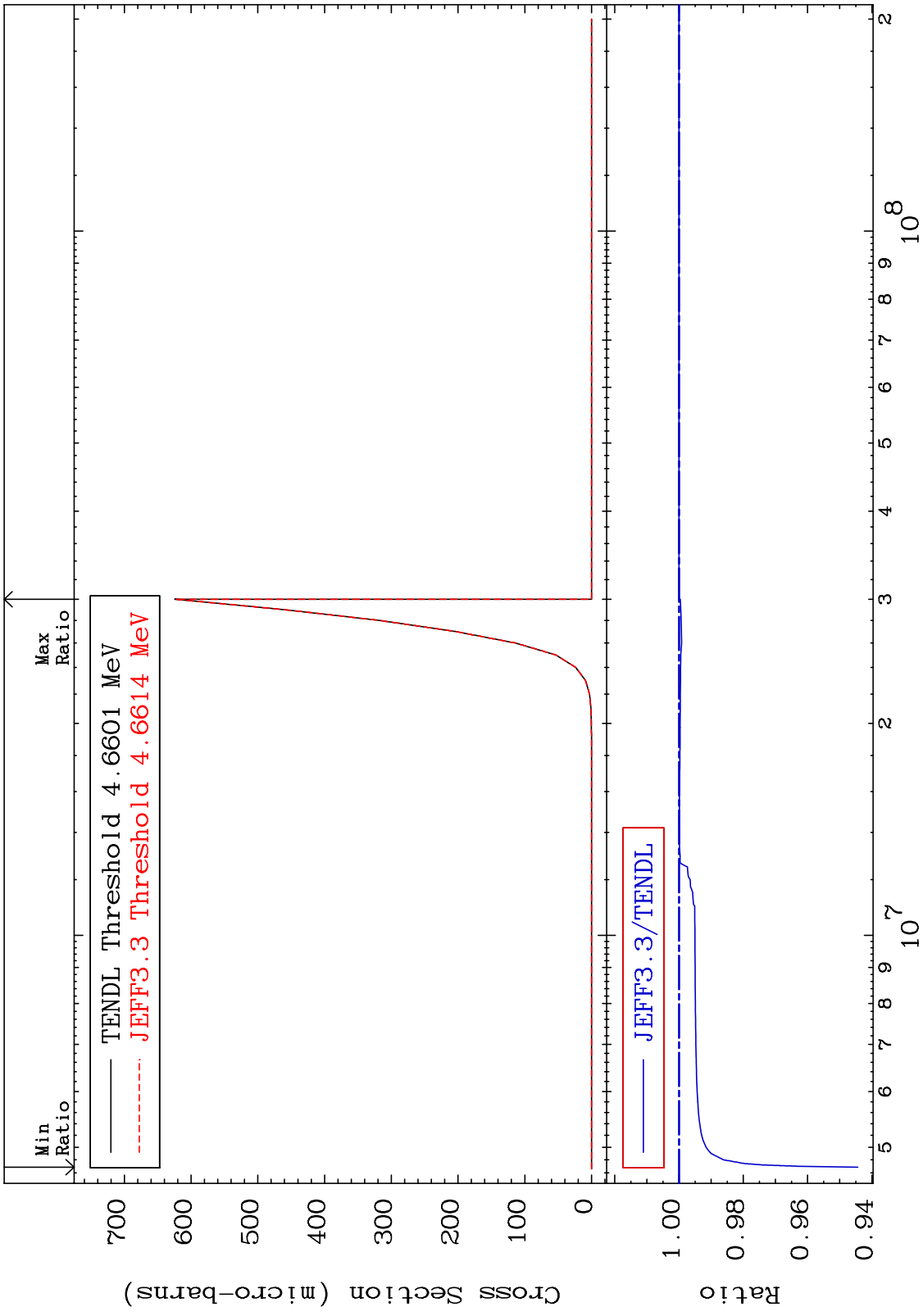


MAT 7031

(n, t) Cross Section
70-Yb-170
-11.98 To 0.071 %



MAT 7031 (n, He-3) 70-Yb-170
 Cross Section -5.563 To 0.000 %



54 Incident Energy (eV) 70-Yb-170

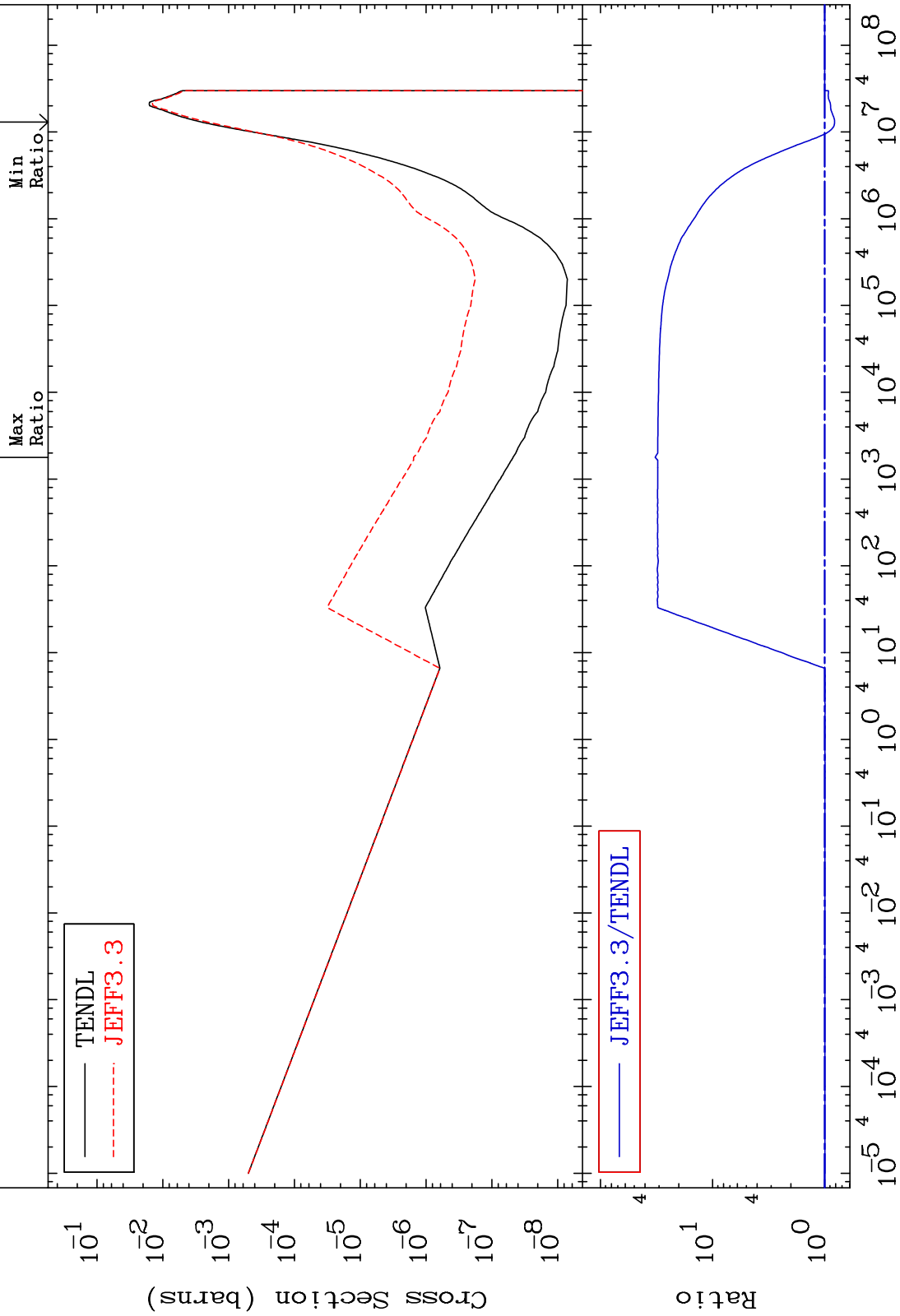
MAT 7031

(n, α)

70-Yb-170

-18.36 To 3153. %

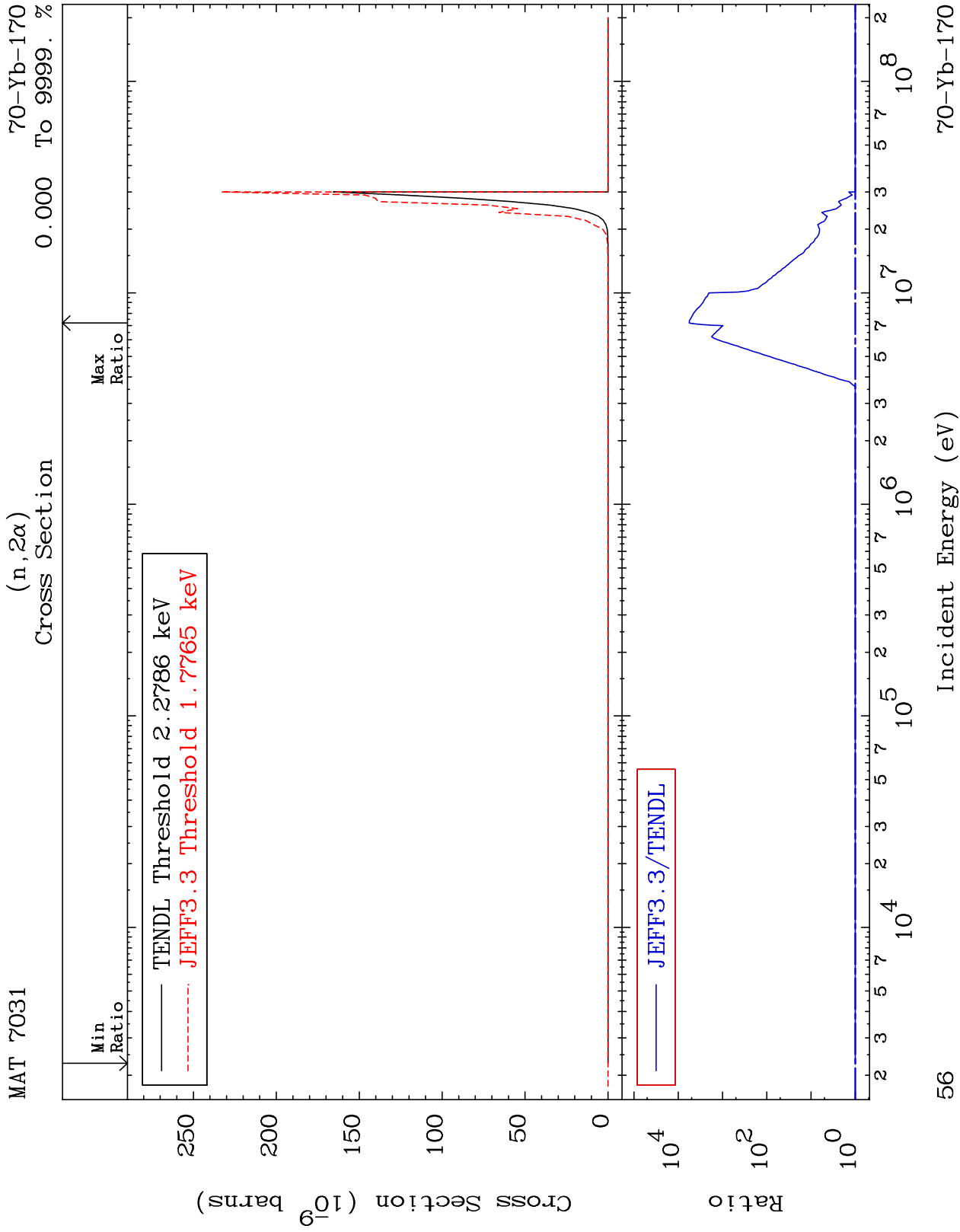
Cross Section



Incident Energy (eV)

70-Yb-170

55



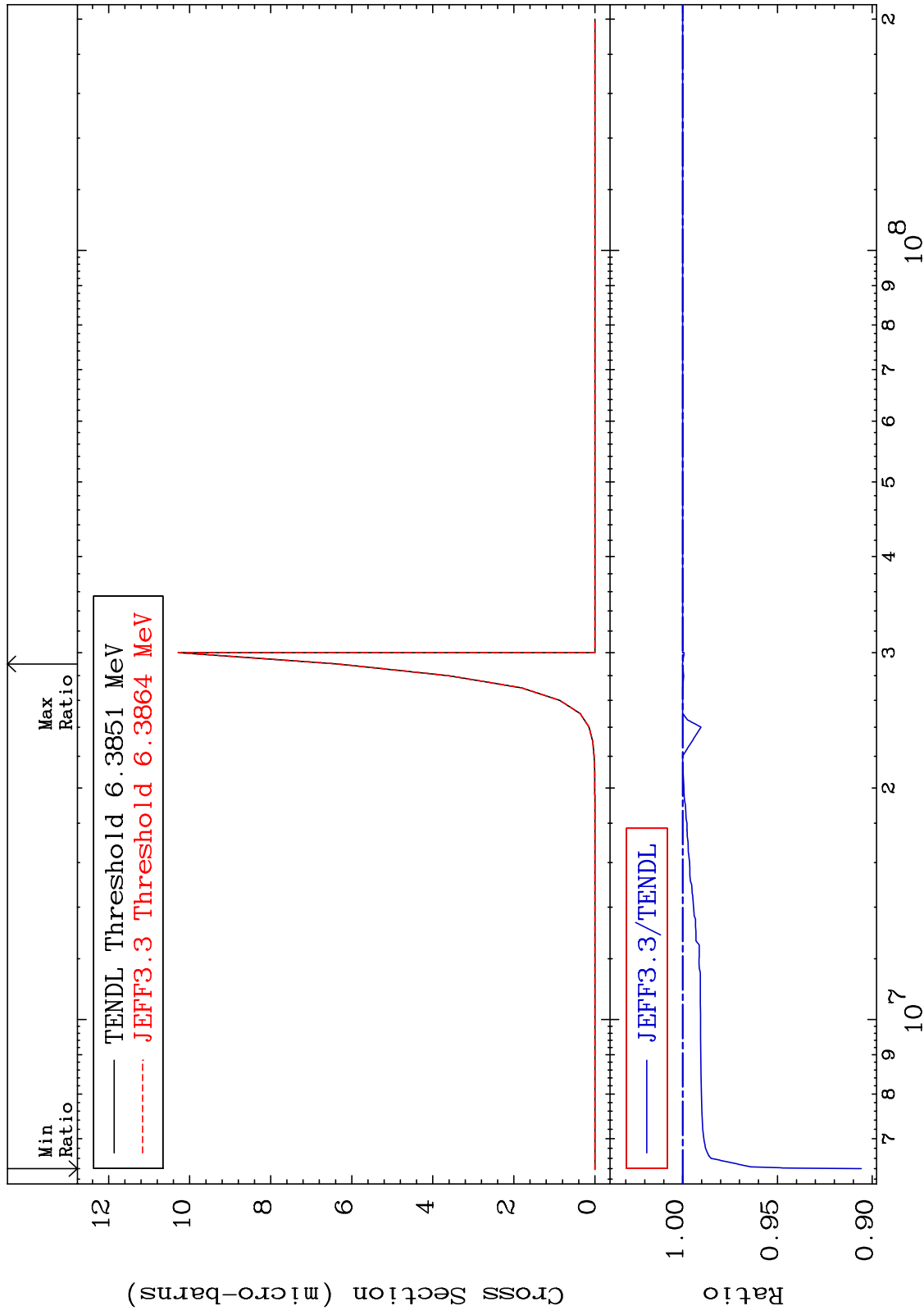
MAT 7031

(n,2p)

70-Yb-170

-9.423 To 0.013 %

Cross Section



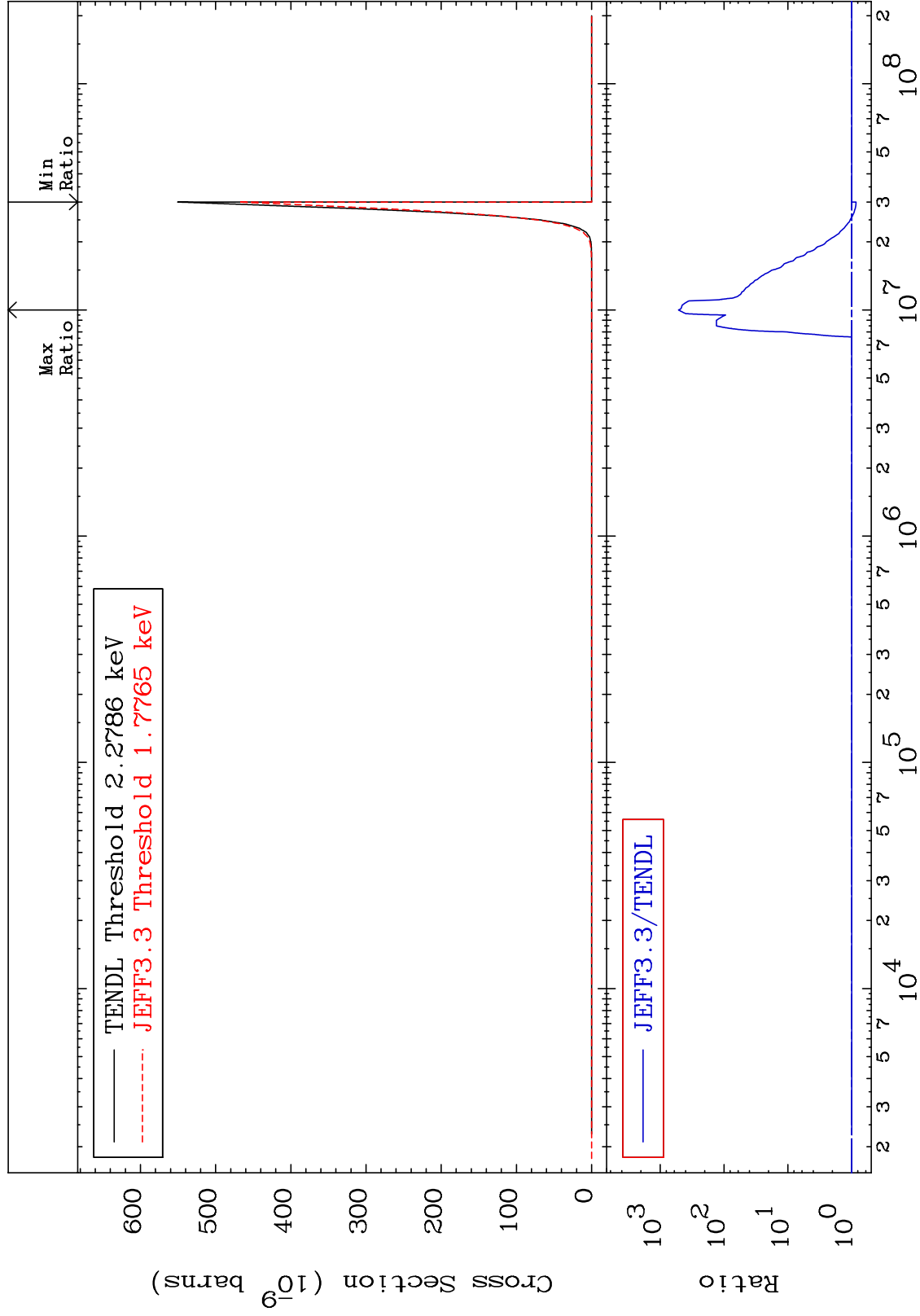
MAT 7031

(n,p) α

Cross Section

70-Yb-170

-14.67 To 9999. %



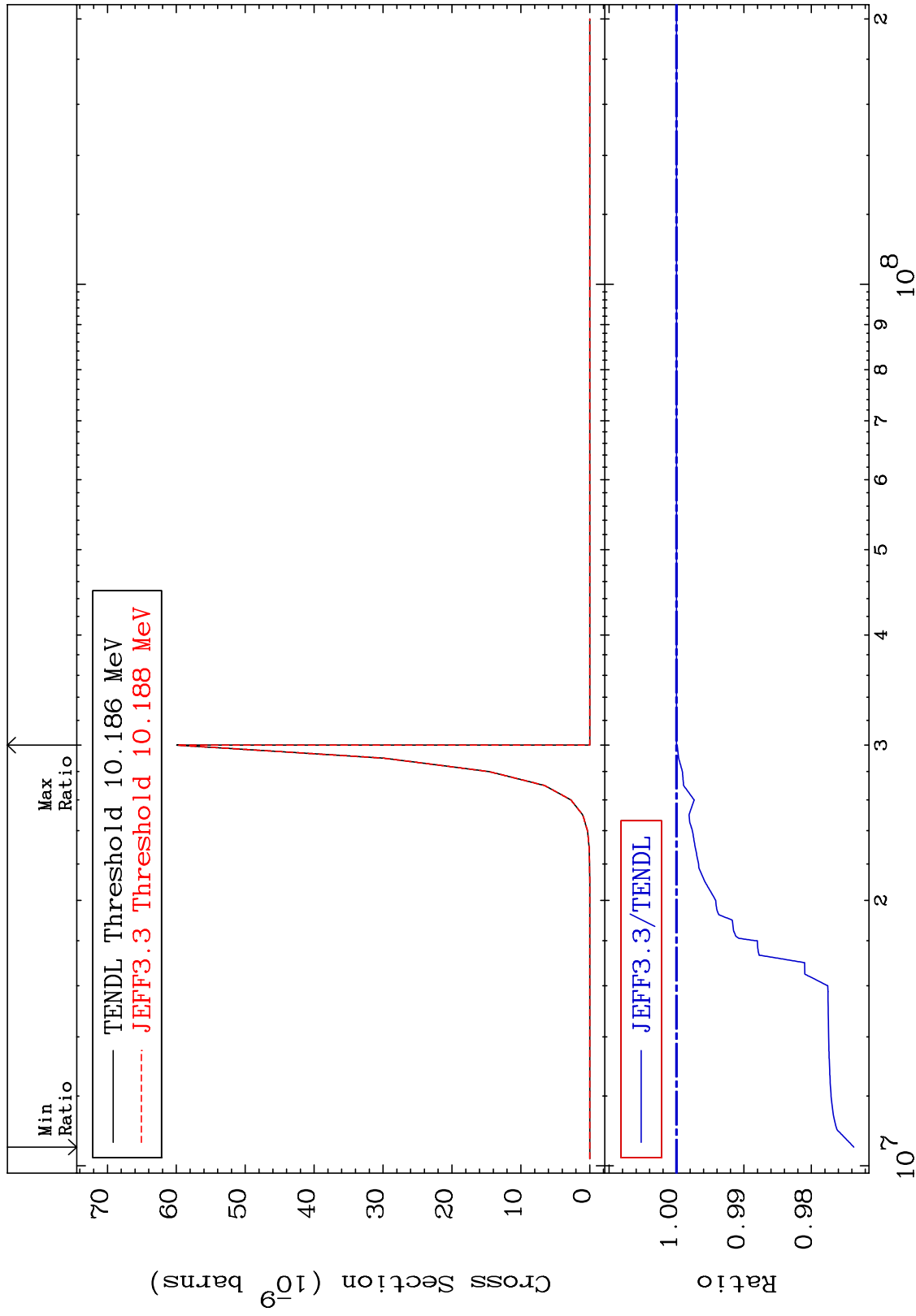
MAT 7031

(n,p) d

⁷⁰Yb-170

Cross Section

-2.629 To 0.000 %



59

Incident Energy (eV)

⁷⁰Yb-170

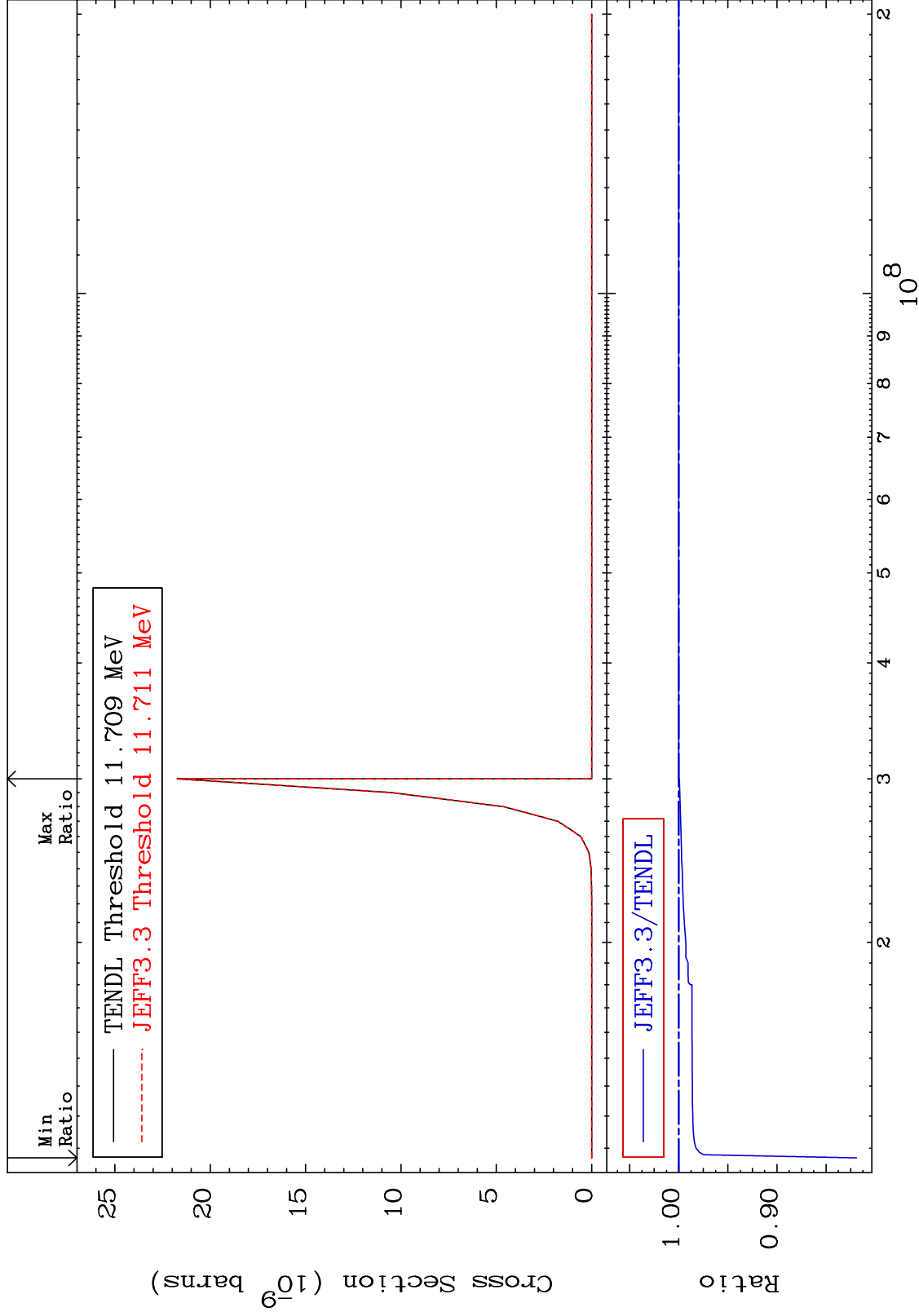
MAT 7031

(n,p) t

70-Yb-170

Cross Section

-18.11 To 0.000 %



60

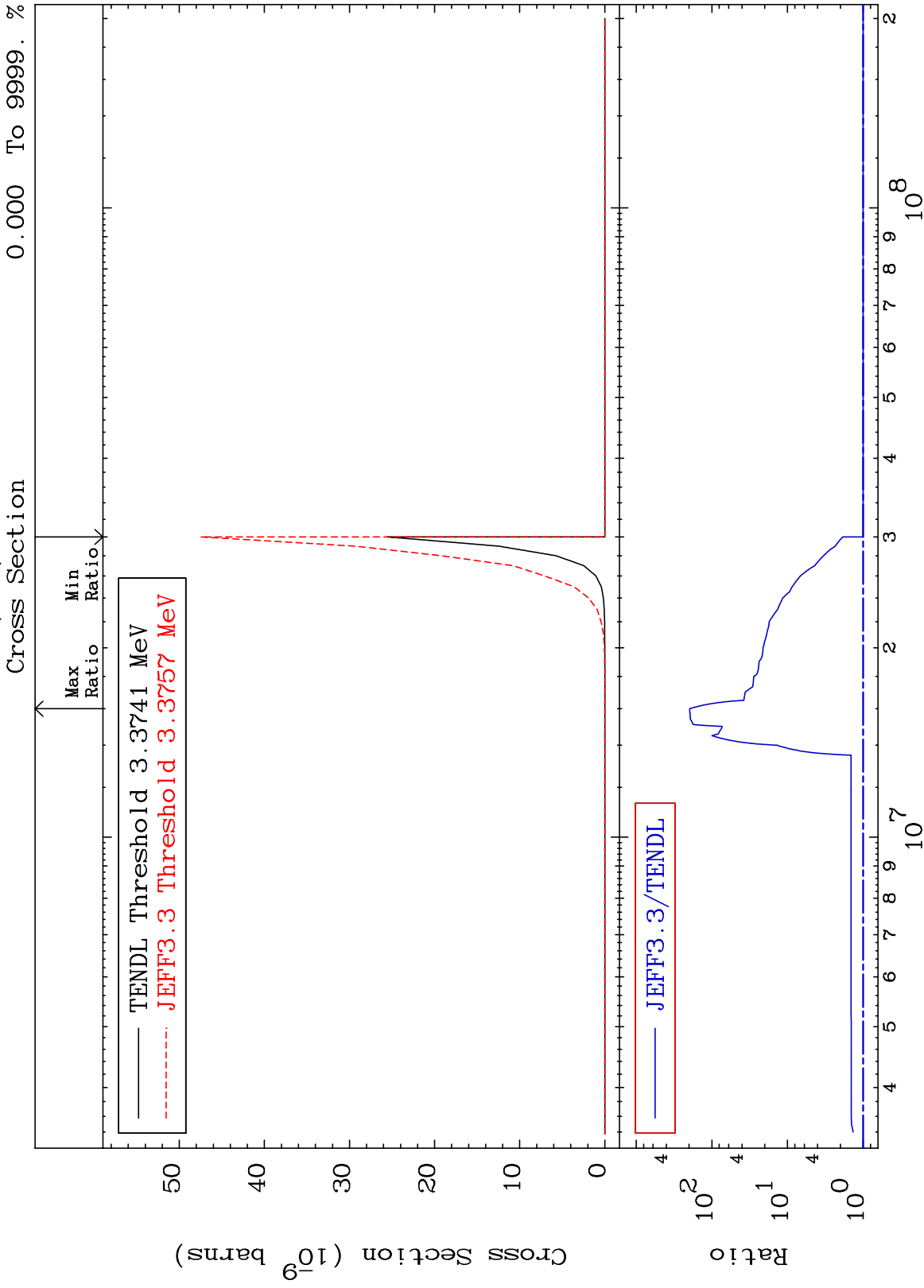
Incident Energy (eV)

70-Yb-170

MAT 7031

(n,d) α

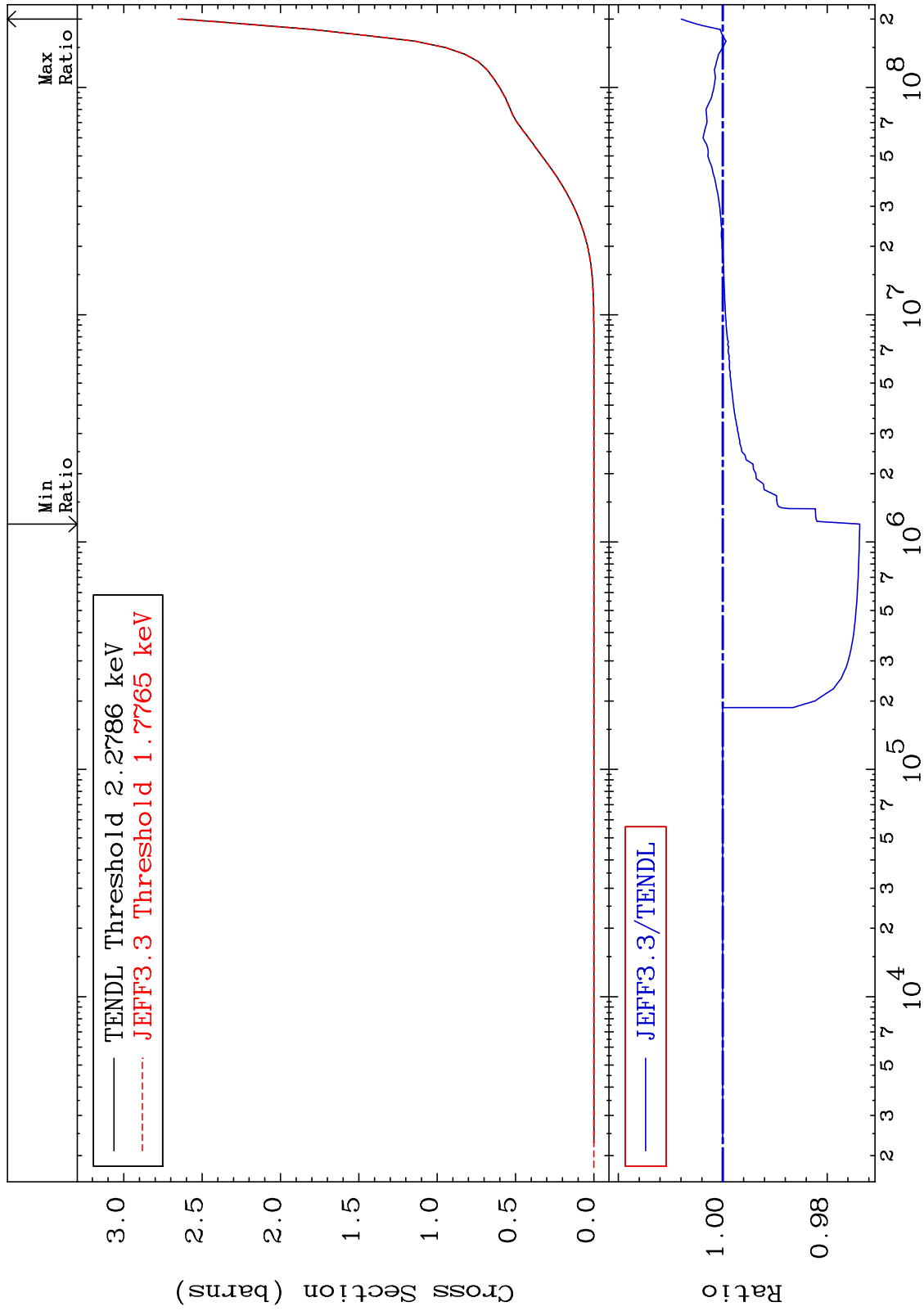
70-Yb-170
To 9999. %
0.000



MAT 7031

Hydrogen Production
Cross Section

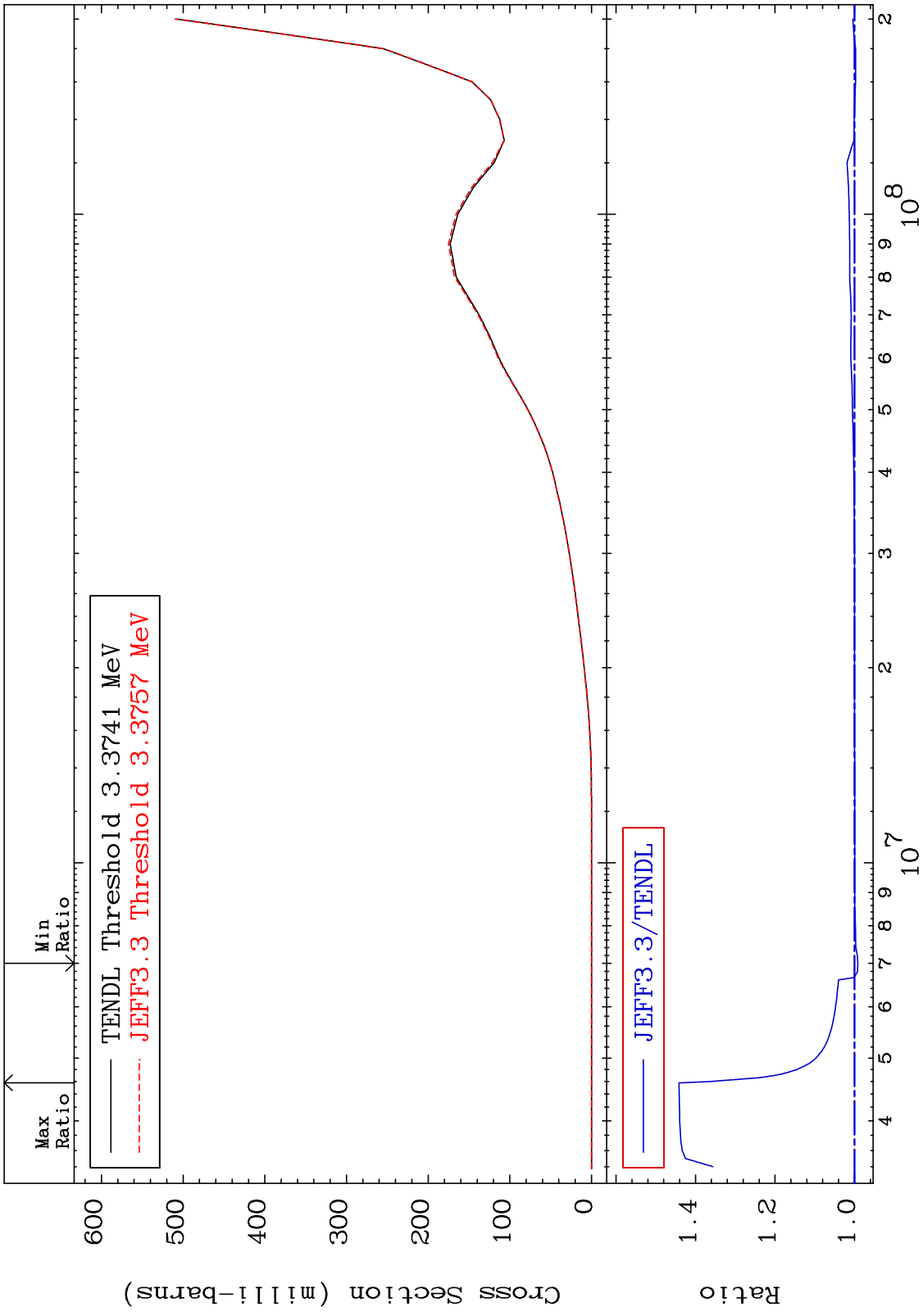
70-Yb-170
-2.625 To 0.795 %



62

Incident Energy (eV)

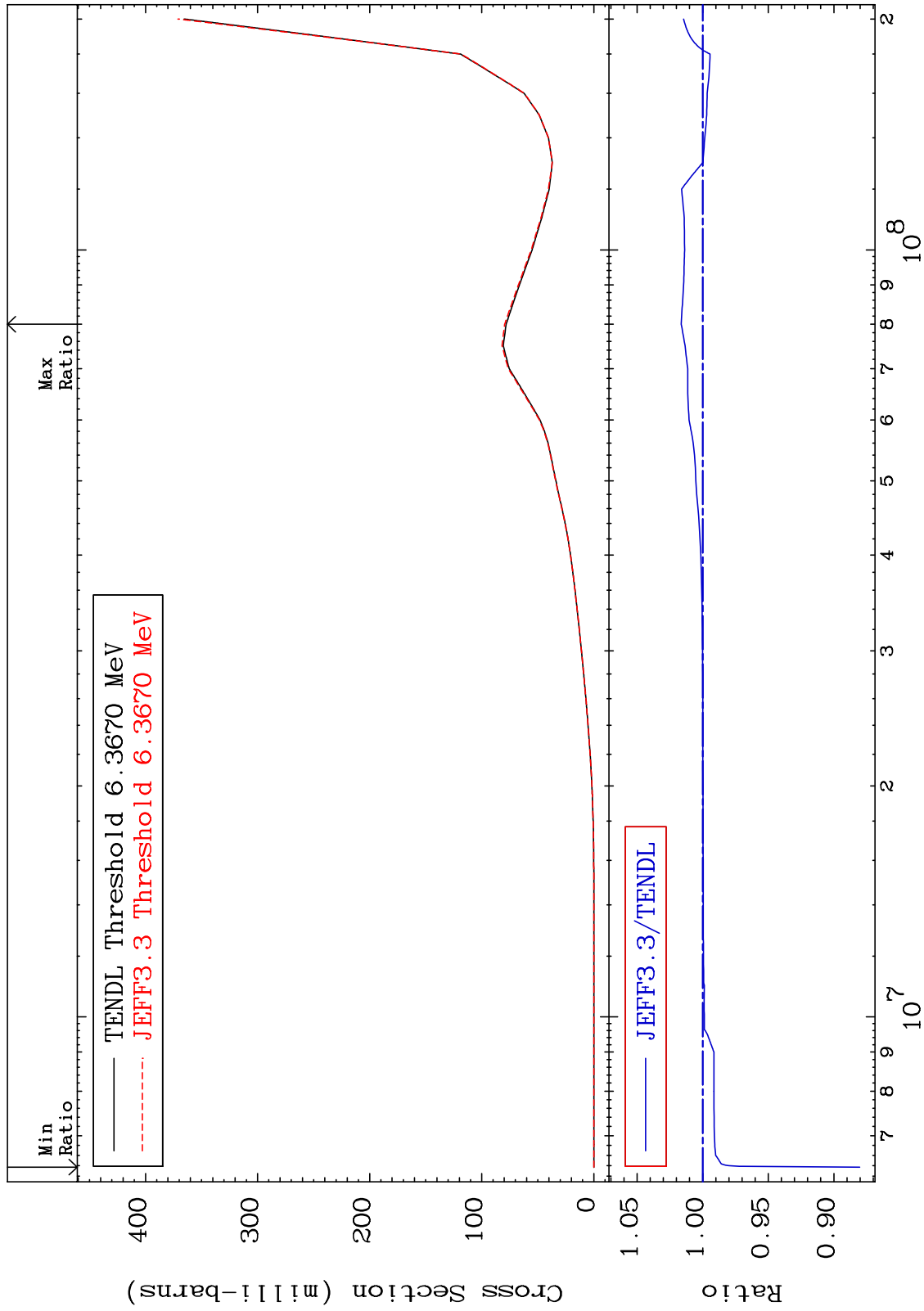
70-Yb-170



MAT 7031

Tritium Production
Cross Section

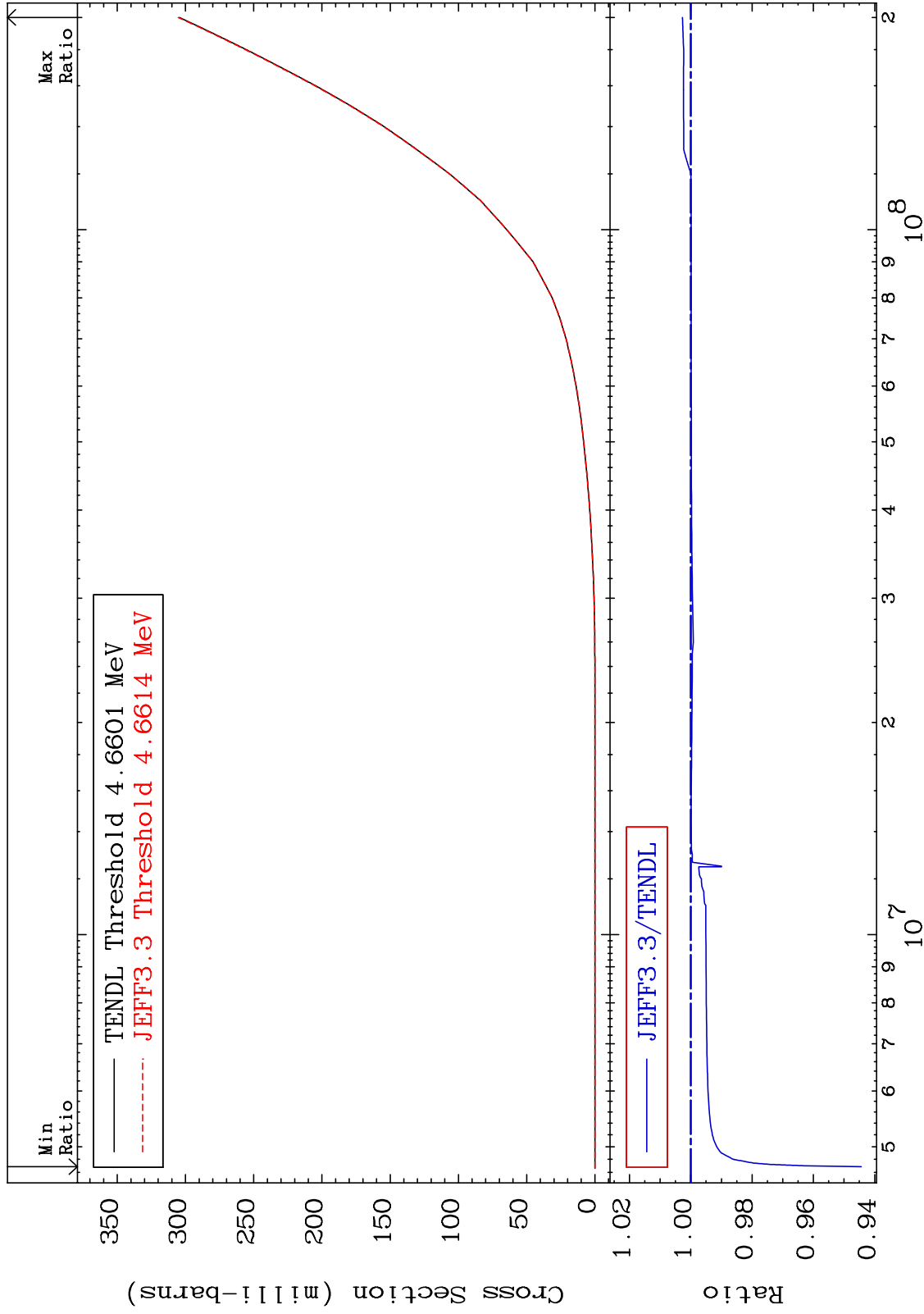
70-Yb-170
-11.98 To 1.635 %



MAT 7031

He-3 Production
Cross Section

70-Yb-170
-5.563 To 0.271 %



65

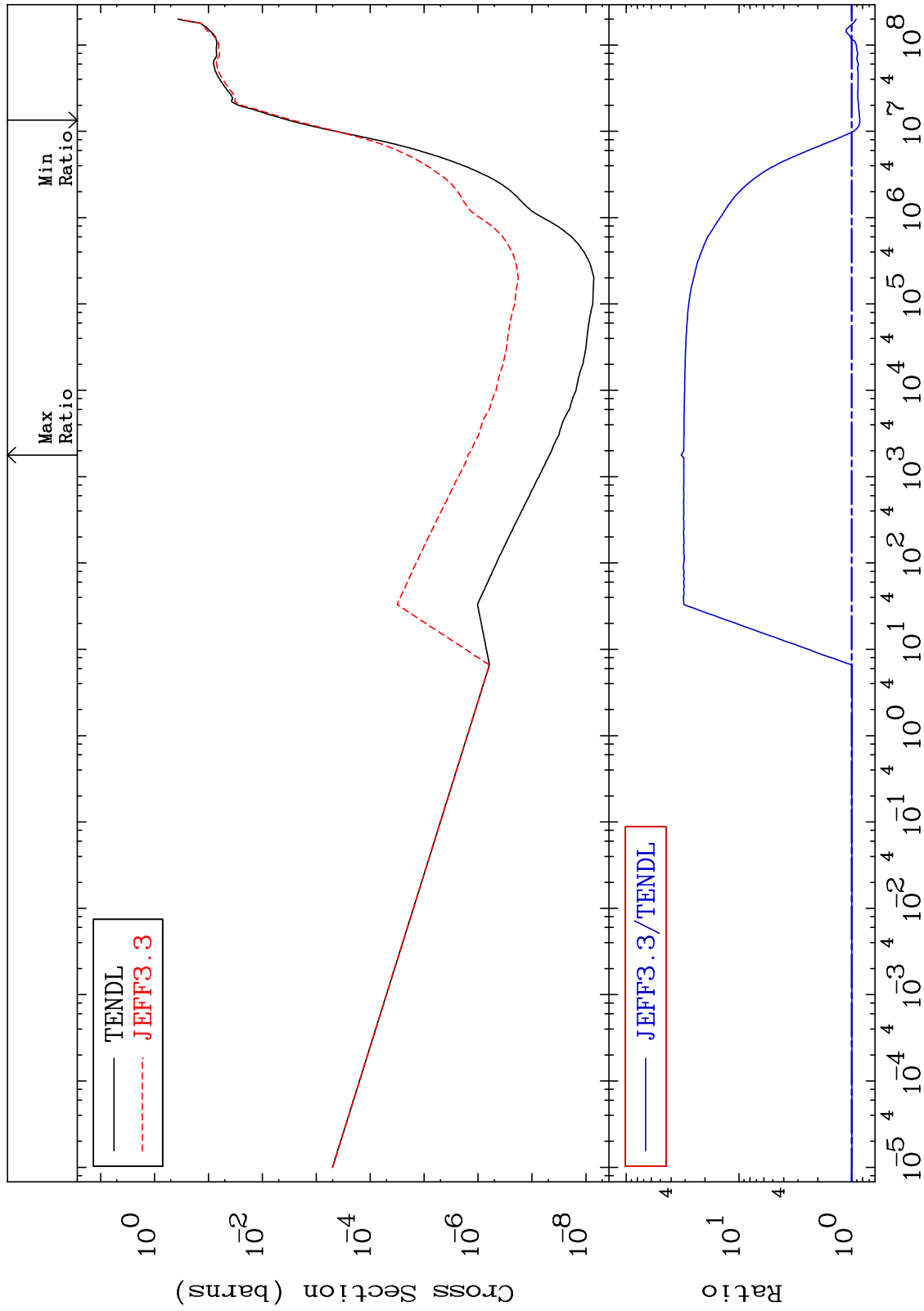
Incident Energy (eV)

70-Yb-170

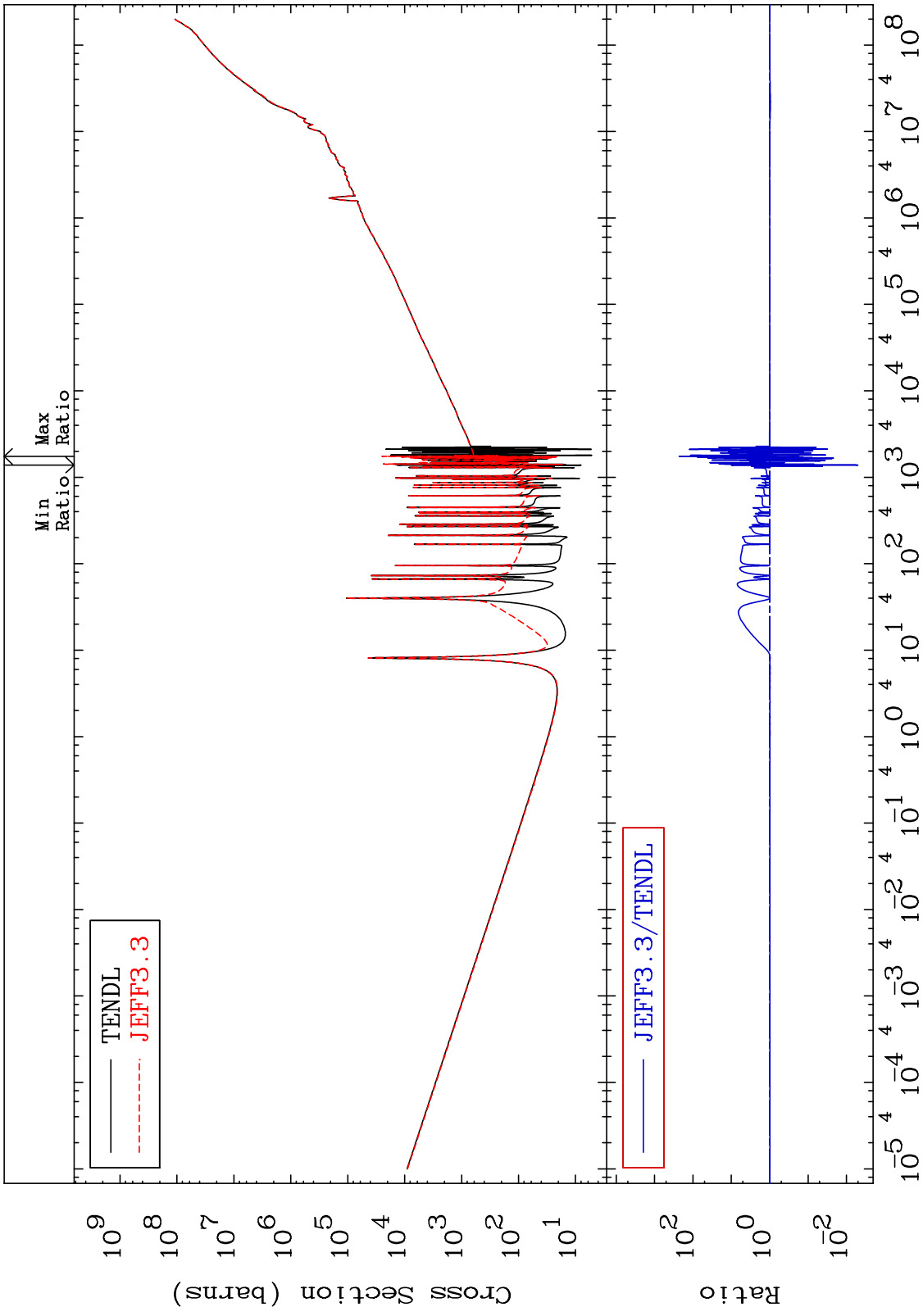
MAT 7031

He-4 Production
Cross Section

70-Yb-170
-15.22 To 3153. %



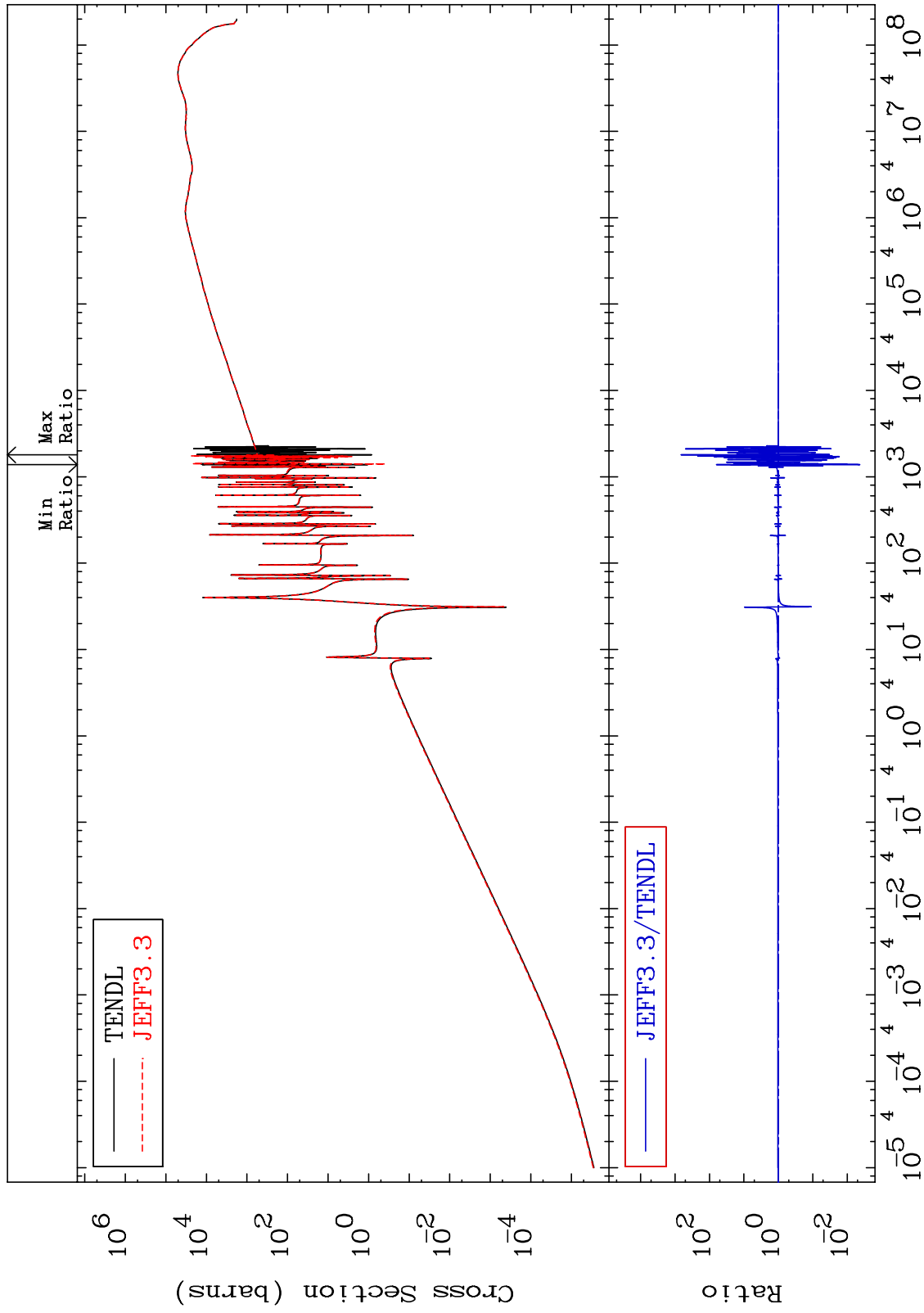
MAT 7031 Kerma total (eV-barns) 70-Yb-170
 Cross Section -99.49 To 9999. %



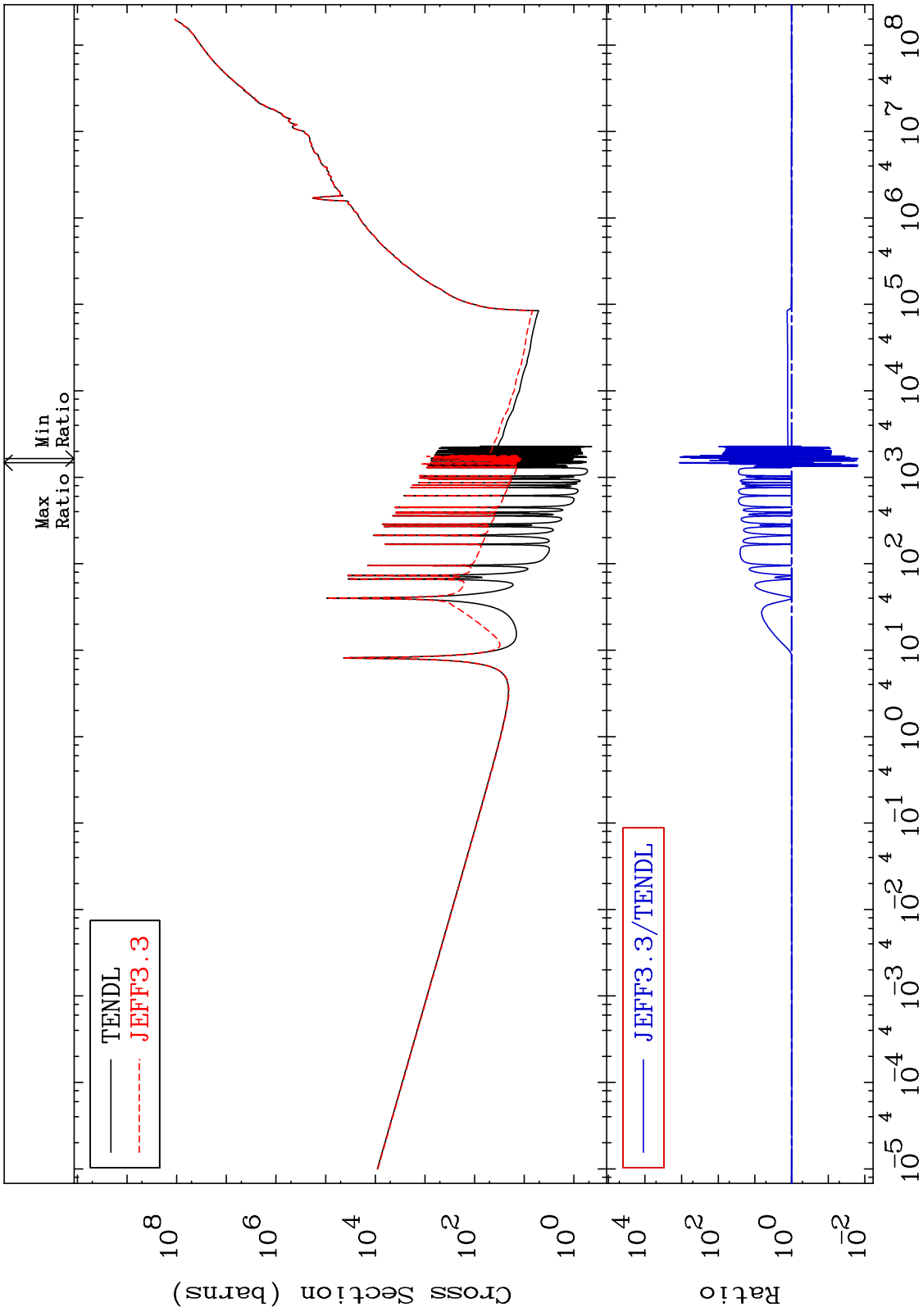
MAT 7031

Kerma elastic
Cross Section

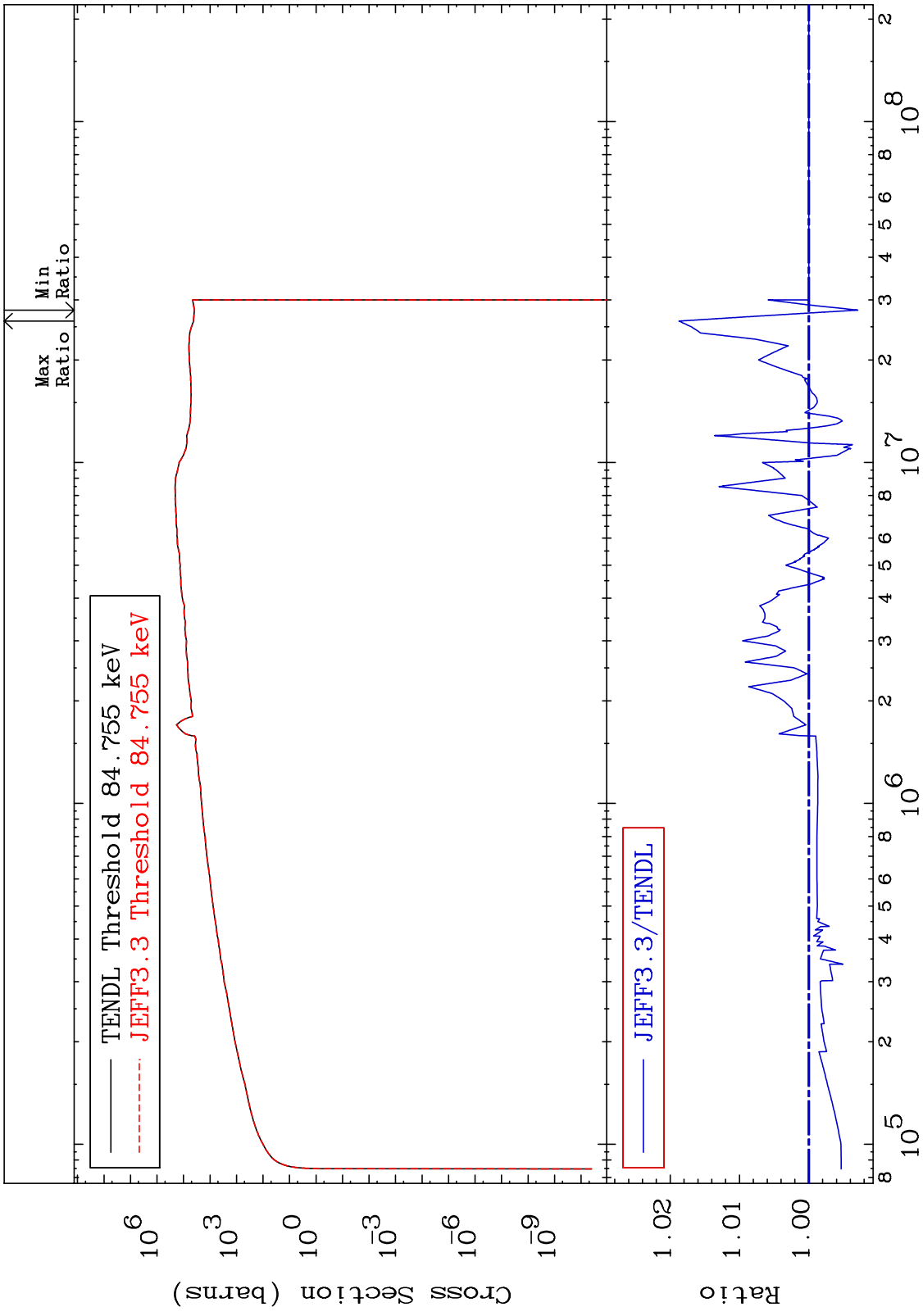
70-Yb-170
-99.57 To 9999. %



MAT 7031 Kerma non-elastic (all but mt2) 70-Yb-170
 Cross Section -98.45 To 9999. %



MAT 7031 Kerma inelastic (mt51-91) 70-Yb-170
Cross Section -0.708 To 1.872 %

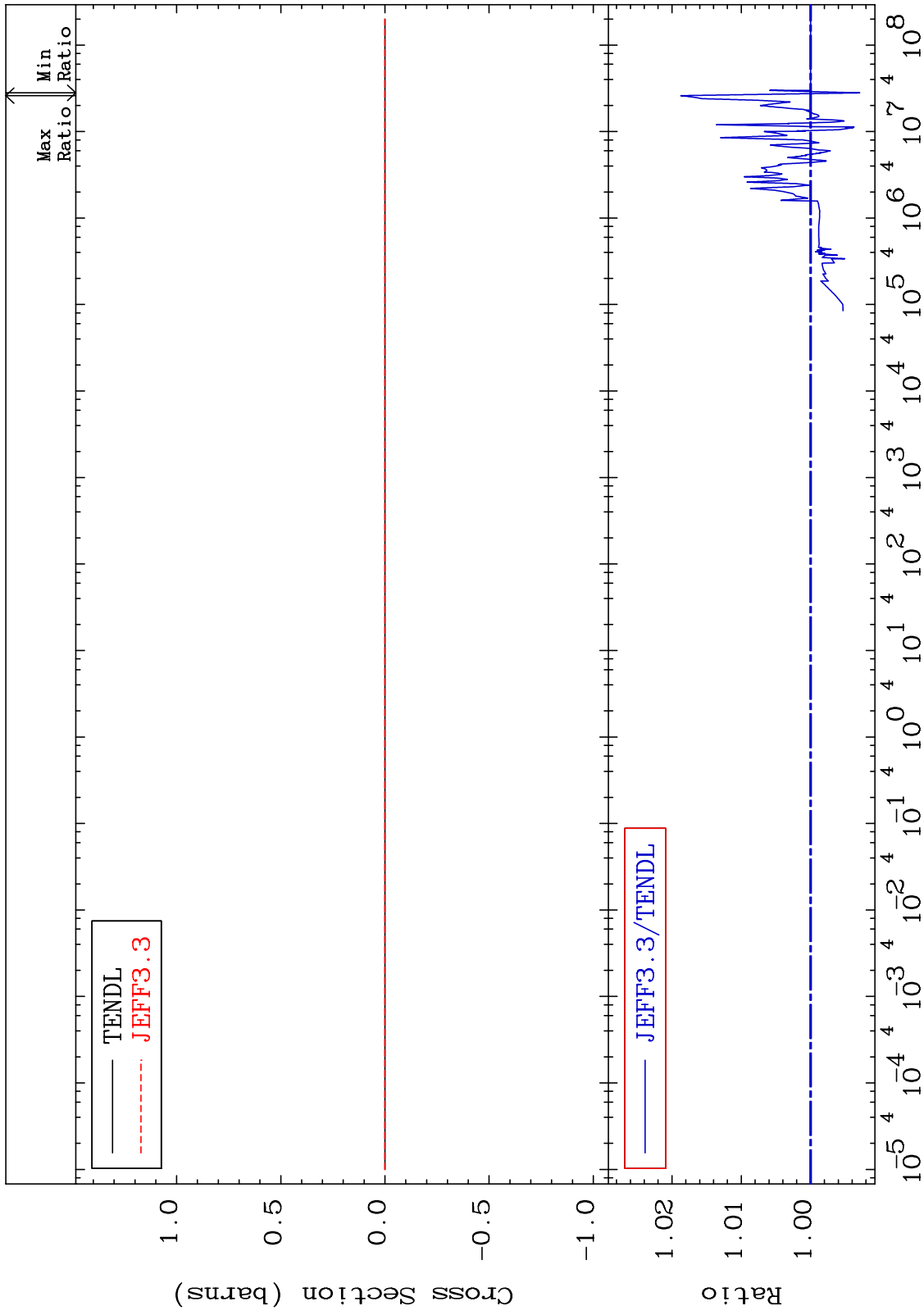


70 Incident Energy (eV) 70-Yb-170

MAT 7031

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

70-Yb-170
-0.708 To 1.872 %



71

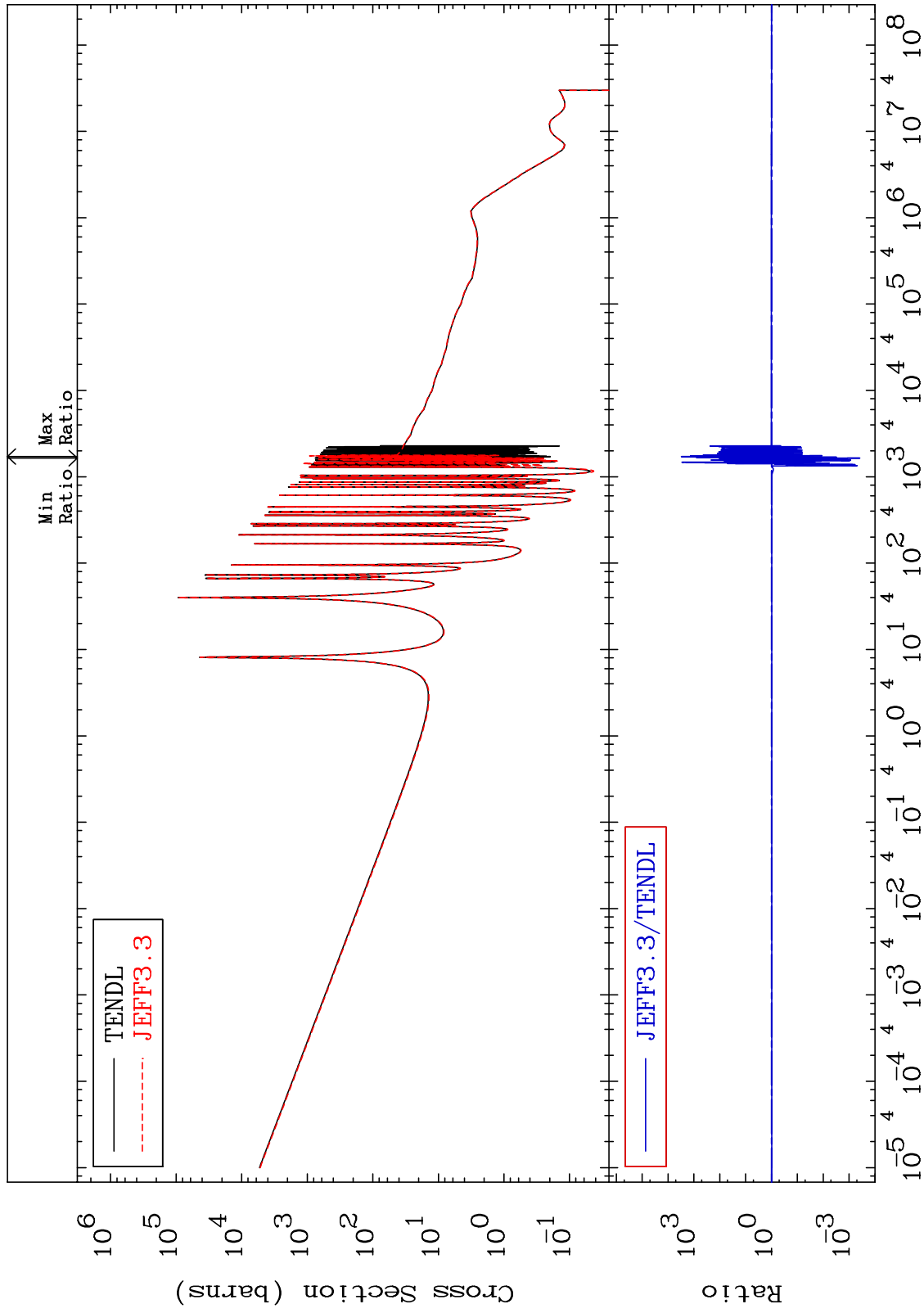
Incident Energy (eV)

70-Yb-170

MAT 7031

Kerma capture (mt102)
Cross Section

70-Yb-170
-99.96 To 9999. %



72

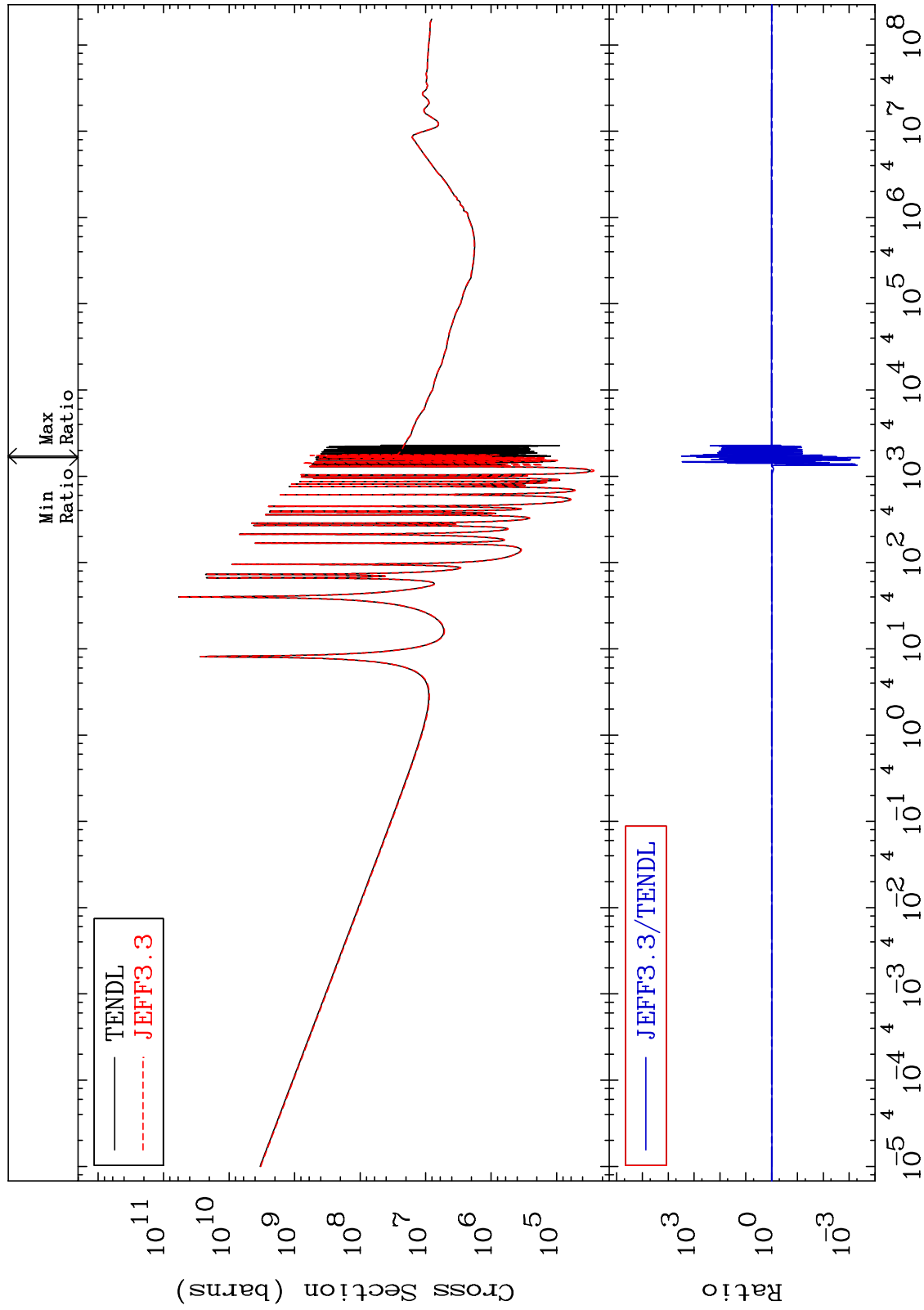
Incident Energy (eV)

70-Yb-170

MAT 7031

Total photon (eV-barns)
Cross Section

70-Yb-170
-99.96 To 9999. %



73

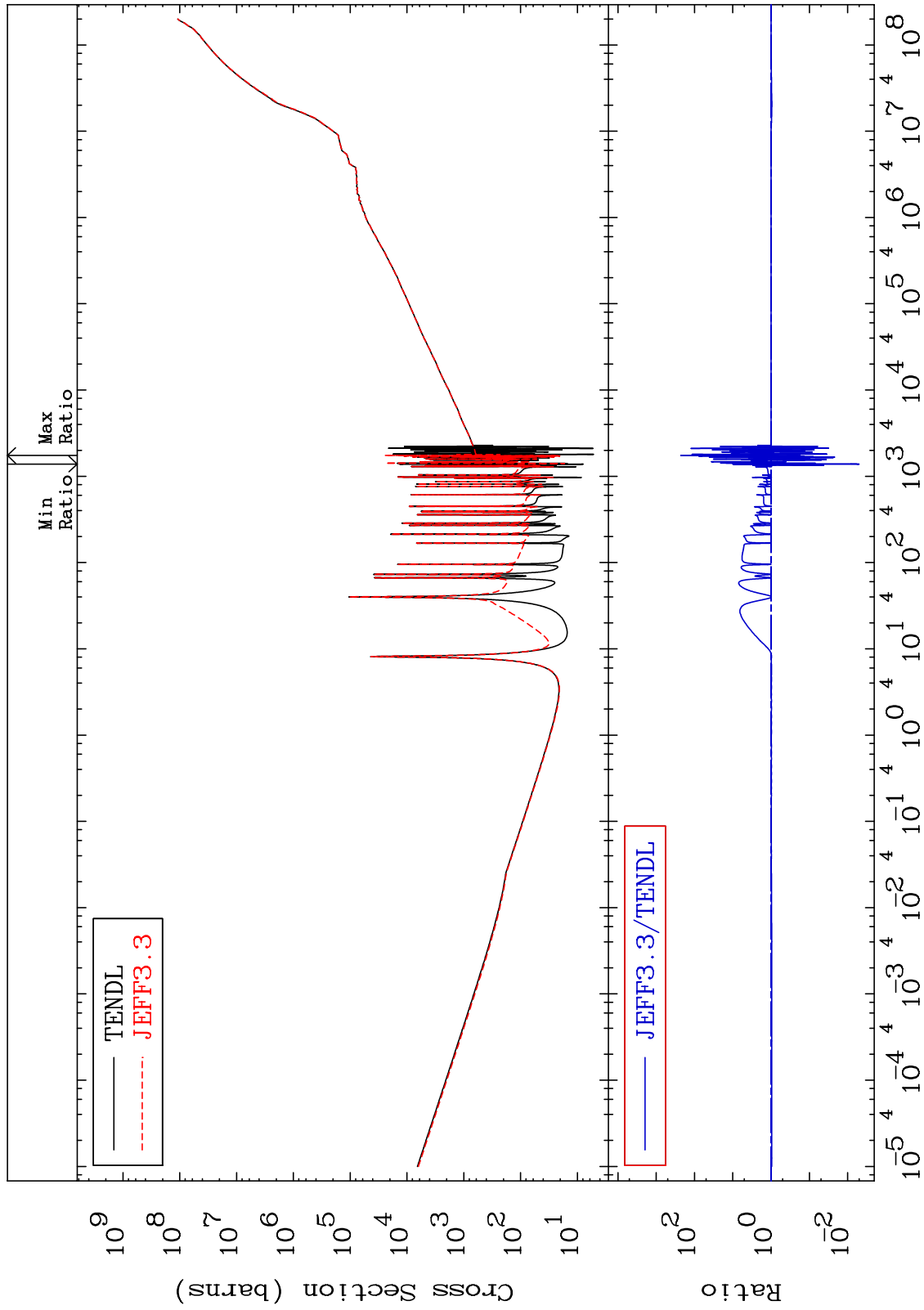
Incident Energy (eV)

70-Yb-170

MAT 7031

Total kinematic kerma (high limit)
Cross Section

70-Yb-170
-99.49 To 9999. %



74

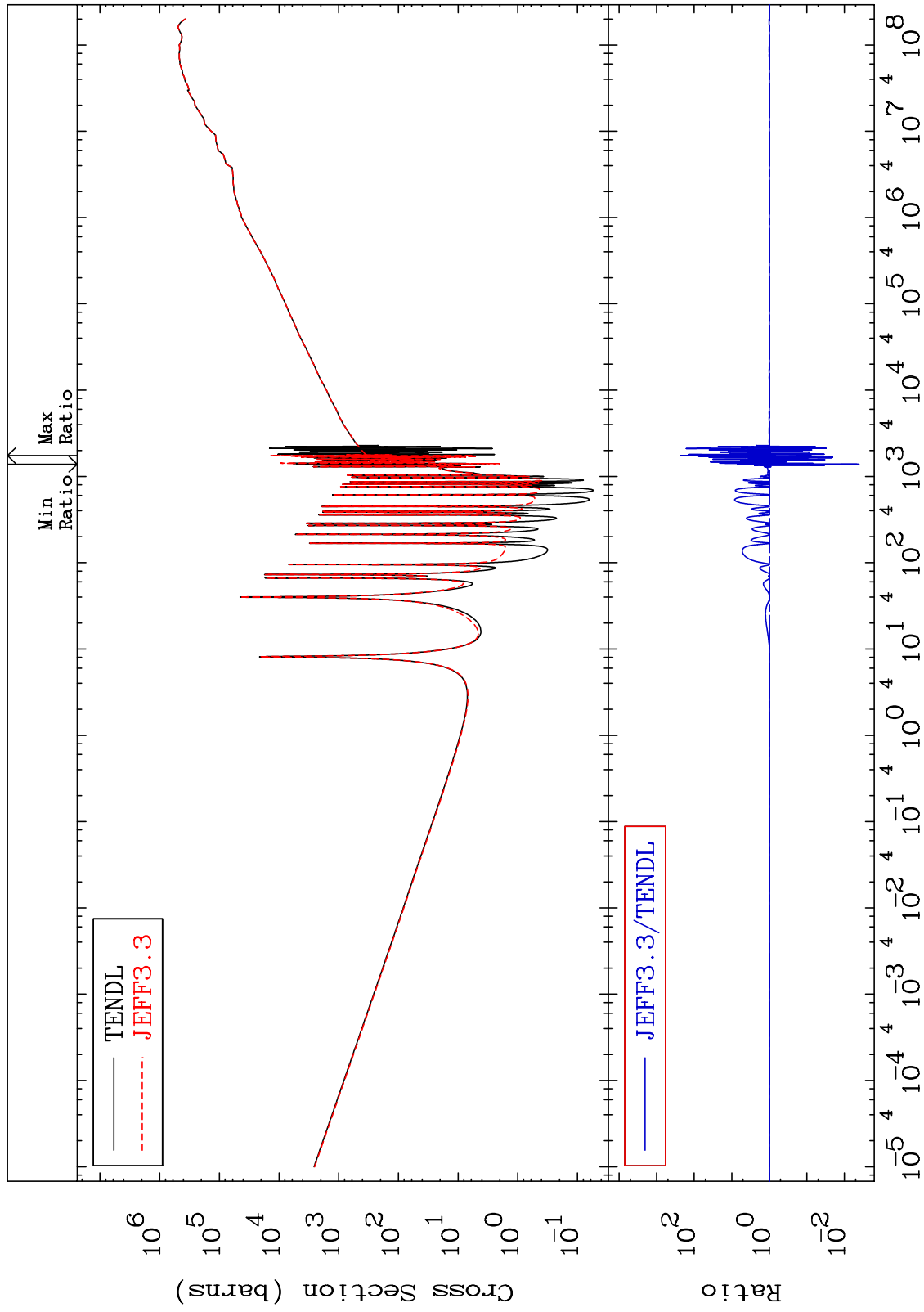
Incident Energy (eV)

70-Yb-170

MAT 7031

Dpa total (eV-barns)
Cross Section

70-Yb-170
-99.59 To 9999. %



75

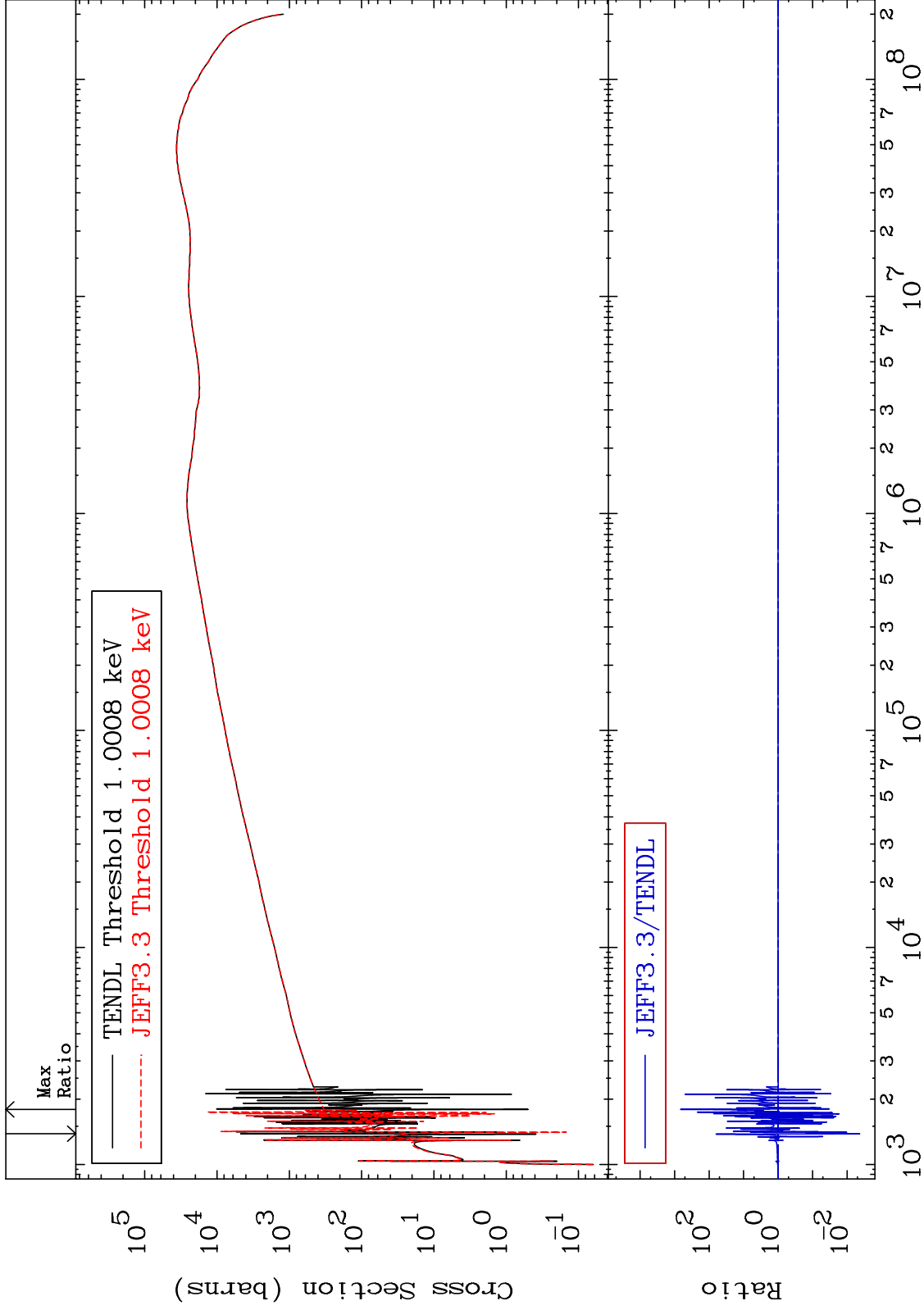
Incident Energy (eV)

70-Yb-170

MAT 7031

Dpa elastic (mt2)
Cross Section

70-Yb-170
-99.57 To 9999. %

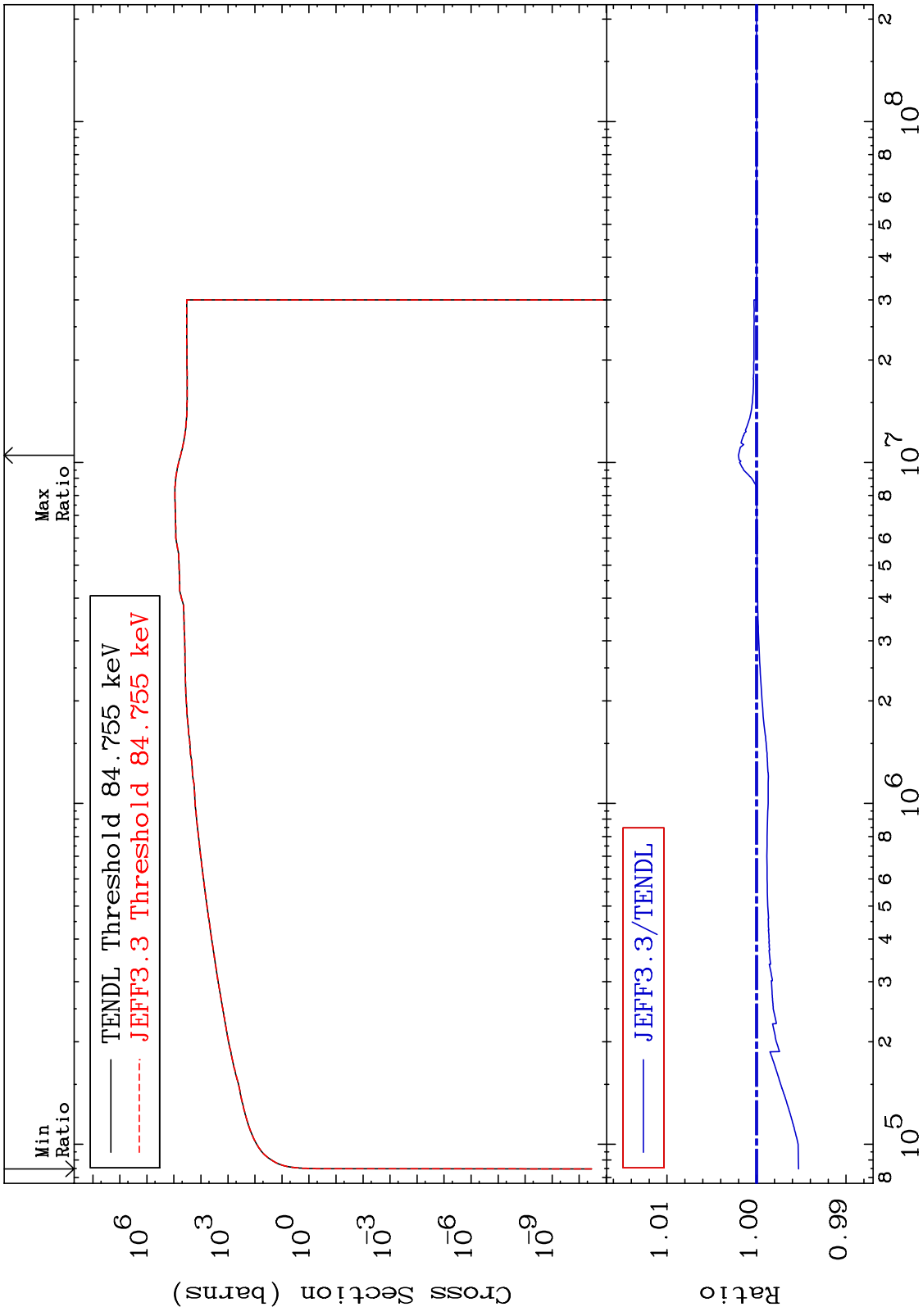


76

Incident Energy (eV)

70-Yb-170

MAT 7031 Dpa inelastic (mt51-91) 70-Yb-170
Cross Section -0.468 To 0.203 %

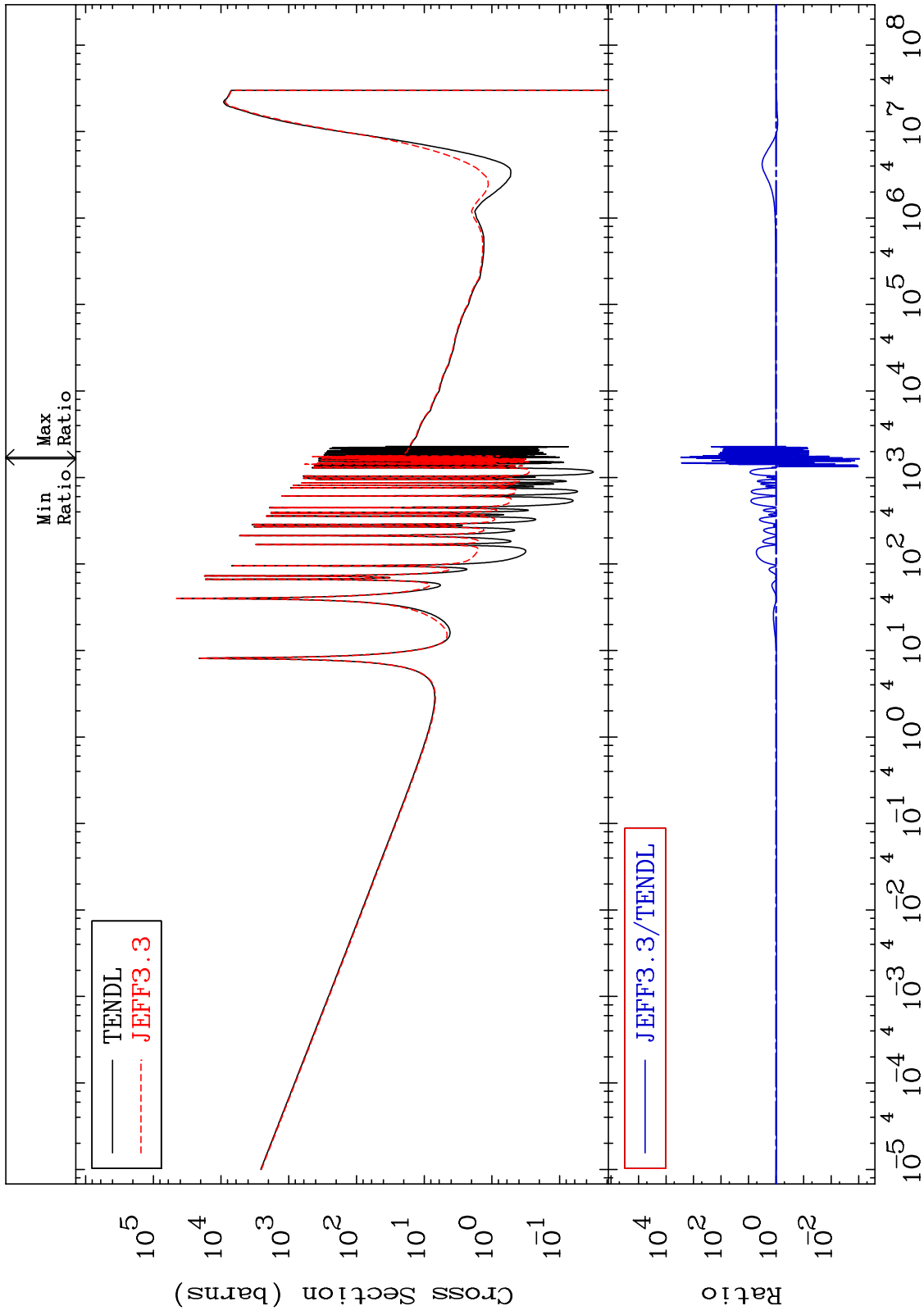


77 70-Yb-170

MAT 7031

Dpa disappearance (mt102 -120)
Cross Section

70-Yb-170
-99.91 To 9999. %



78

Incident Energy (eV)

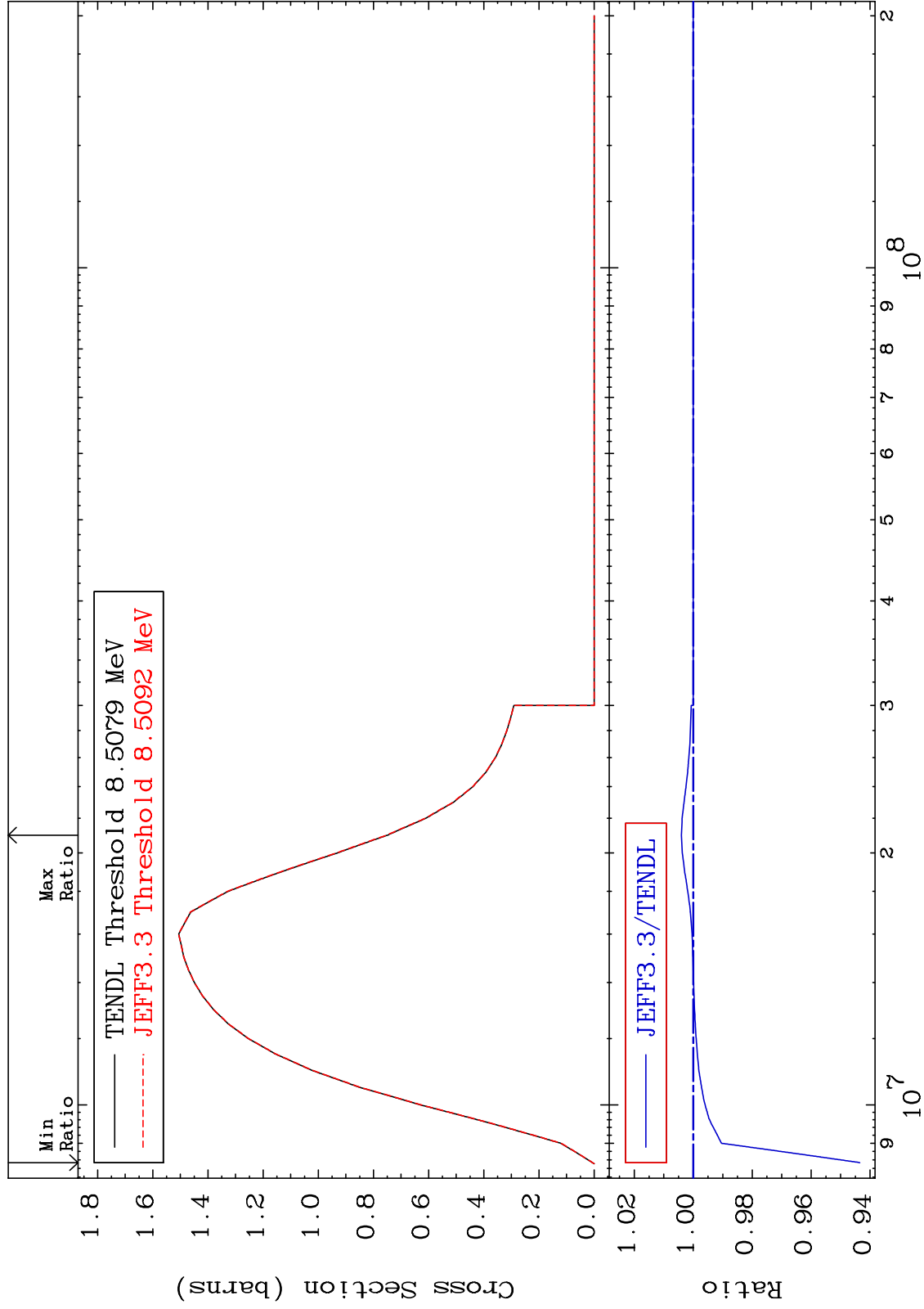
70-Yb-170

MAT 7031

(n,2n):70-Yb-169g

70-Yb-170

Radionuclide Production Cross Section -5.651 To 0.400 %



79

Incident Energy (eV)

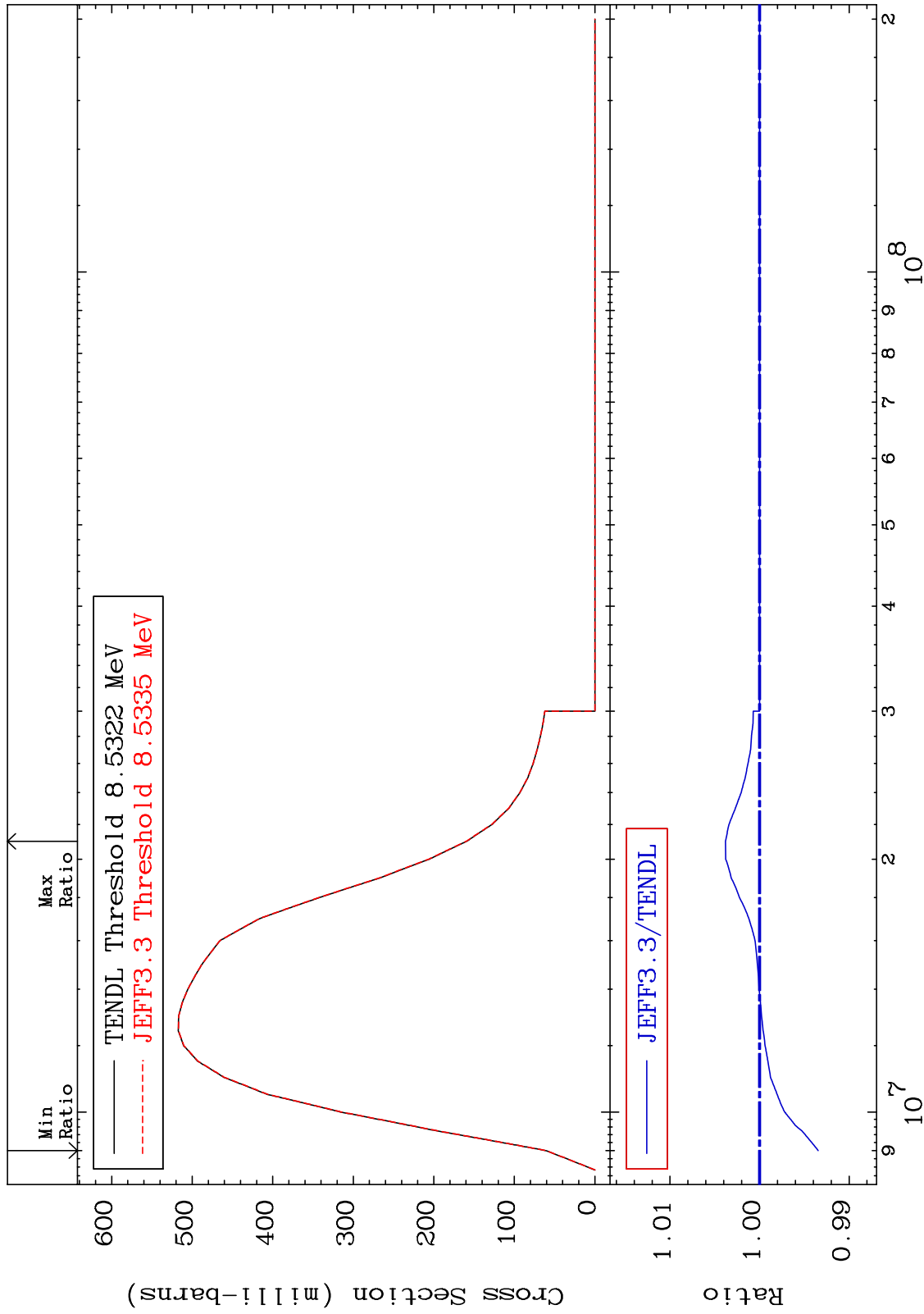
70-Yb-170

MAT 7031

(n,2n):70-Yb-169m1

70-Yb-170

Radionuclide Production Cross Section -0.655 To 0.380 %



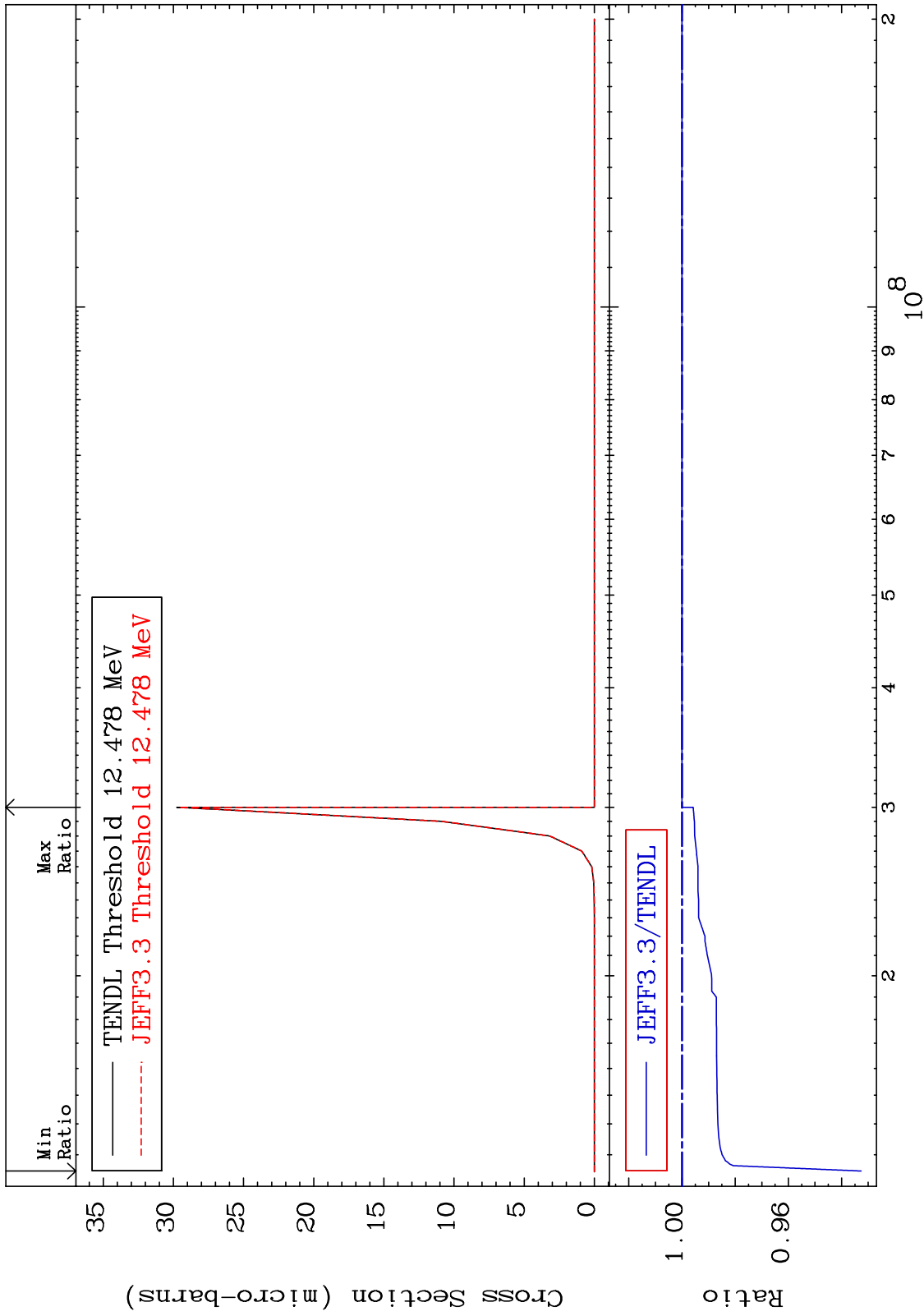
80

Incident Energy (eV)

70-Yb-170

MAT 7031

(n, n') He-3:68-Er-167g 70-Yb-170
Radionuclide Production Cross Section -6.736 To 0.000 %



81

Incident Energy (eV)

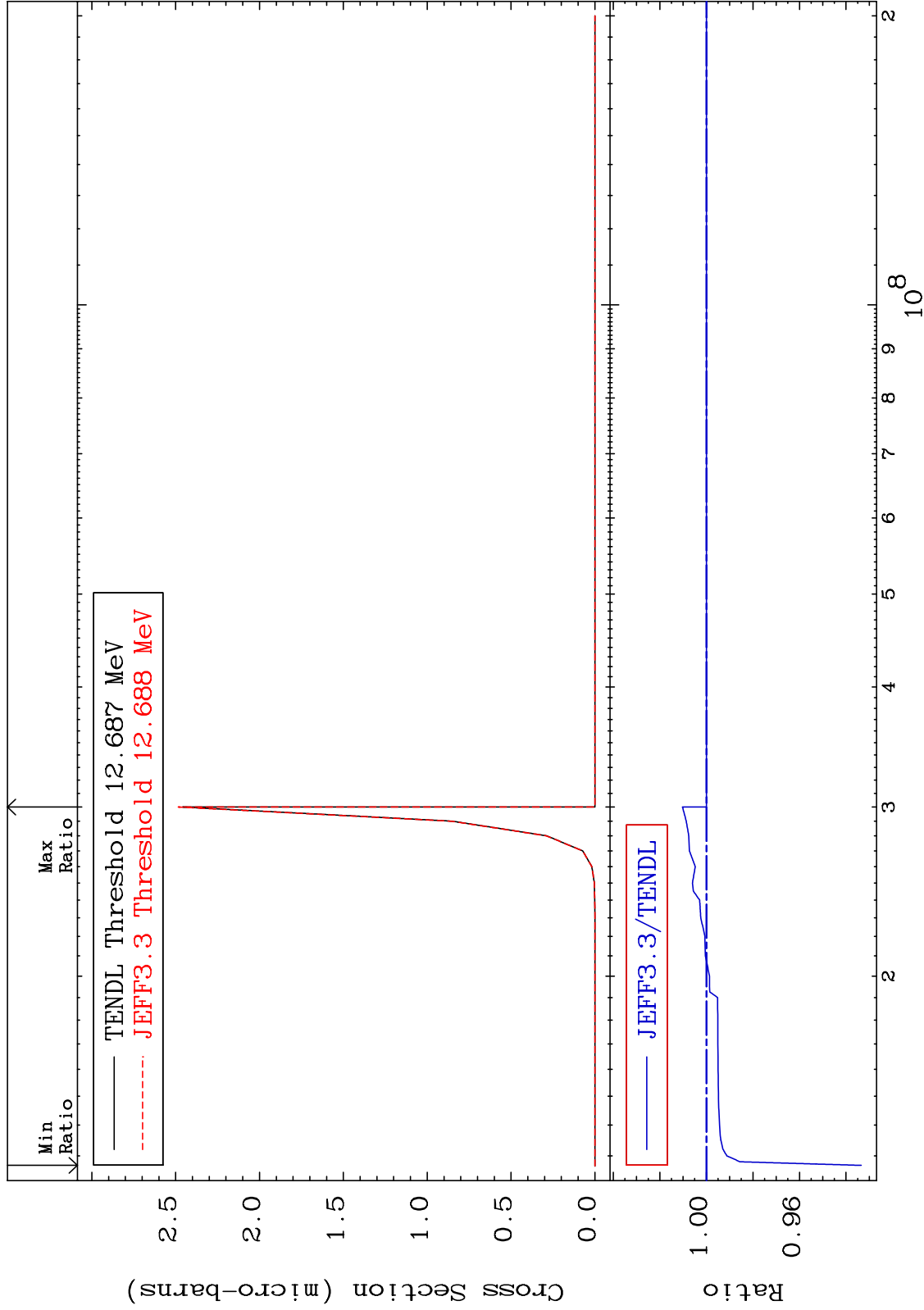
70-Yb-170

MAT 7031

(n, n') He-3:68-Er-167m3

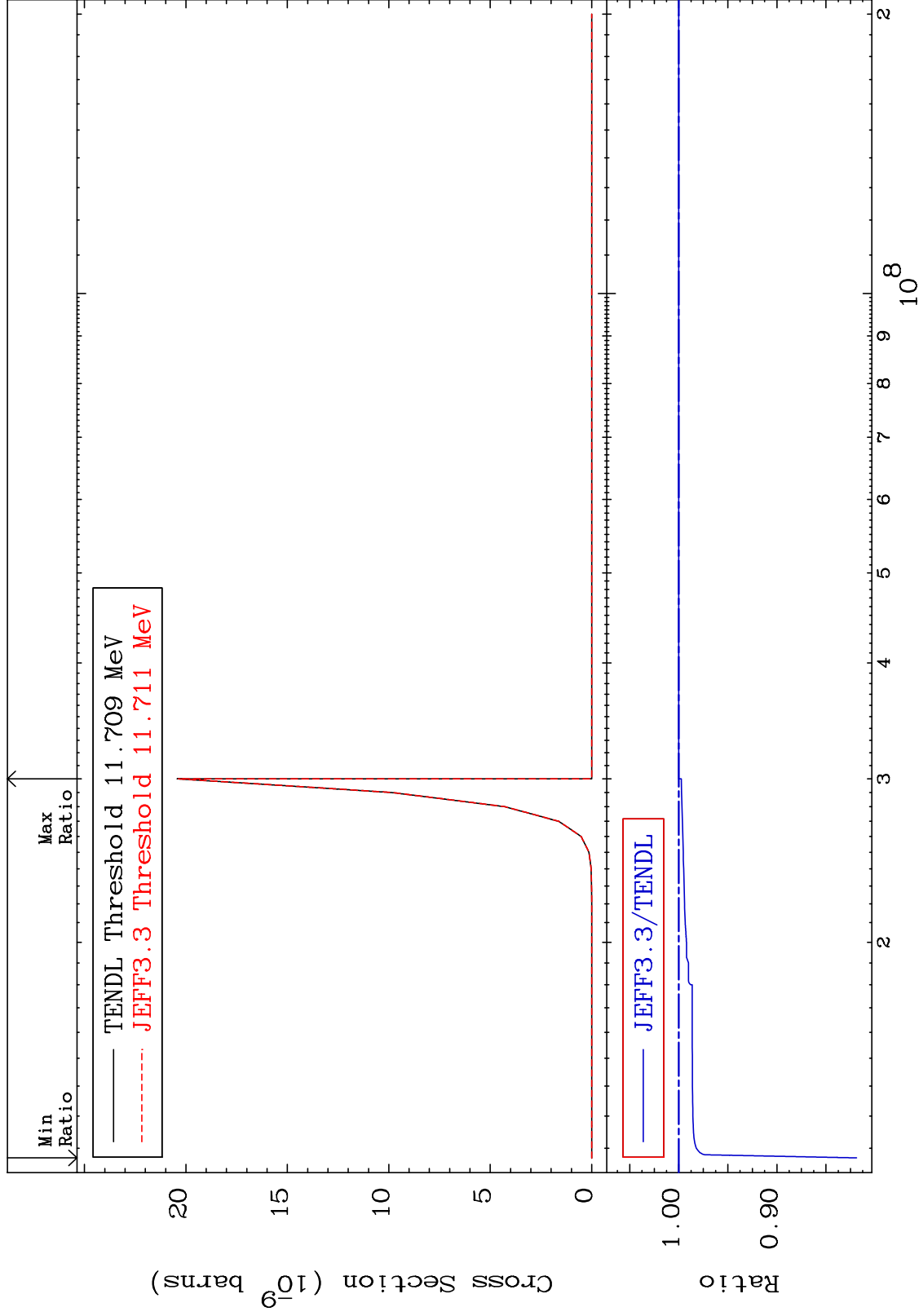
70-Yb-170

Radionuclide Production Cross Section -6.655 To 1.028 %



MAT 7031

(n,p) t:68-Er-167g 70-Yb-170
Radionuclide Production Cross Section -18.13 To 0.000 %



MAT 7031

(n,p) t:68-Er-167m3

70-Yb-170

Radionuclide Production Cross Section -0.484 To 2.781 %

