

Program Complot
(Version 2018-1)

by

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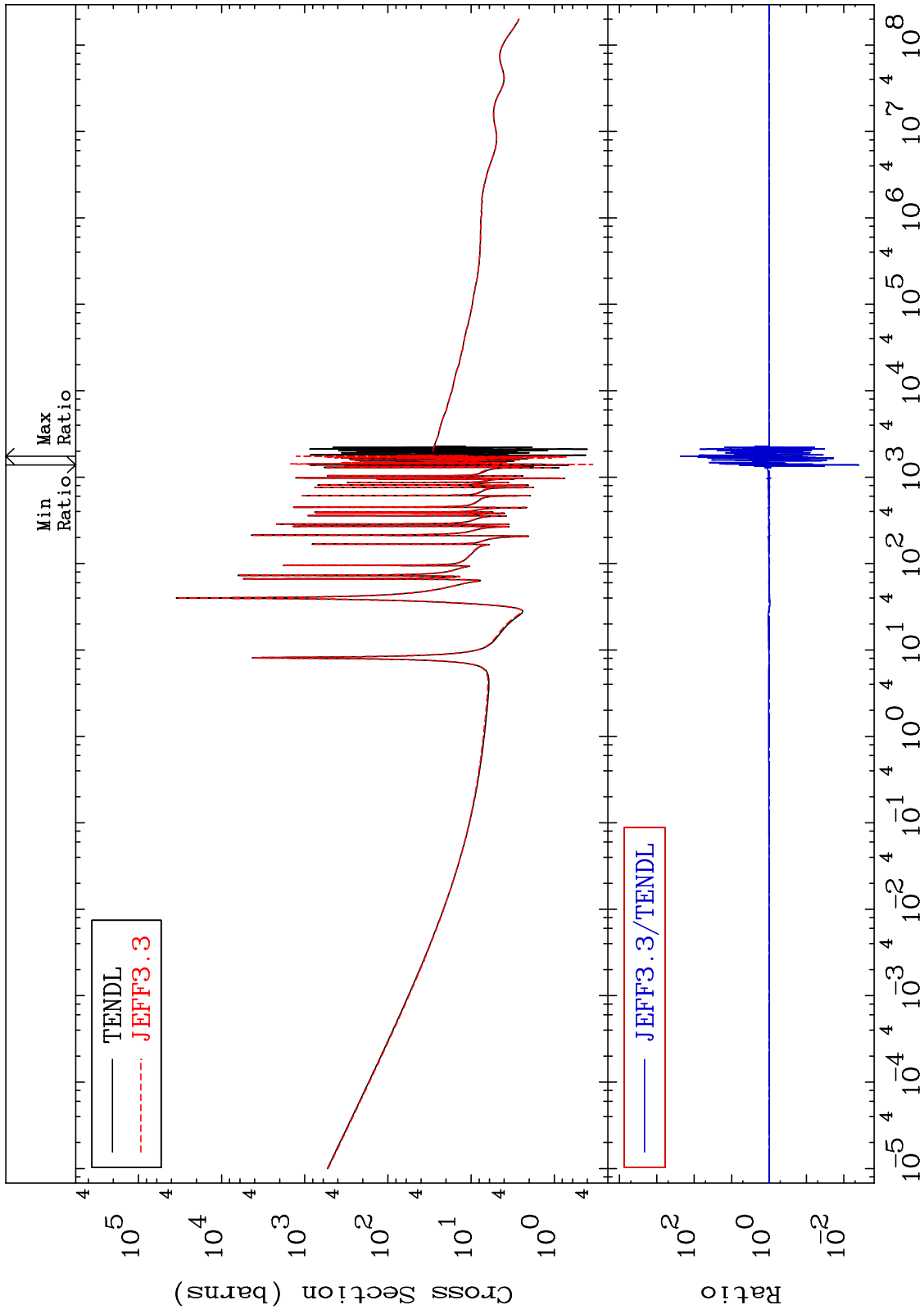
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7031

Total
Cross Section

70-Yb-170
-99.60 To 9999. %



1

Incident Energy (eV)

70-Yb-170

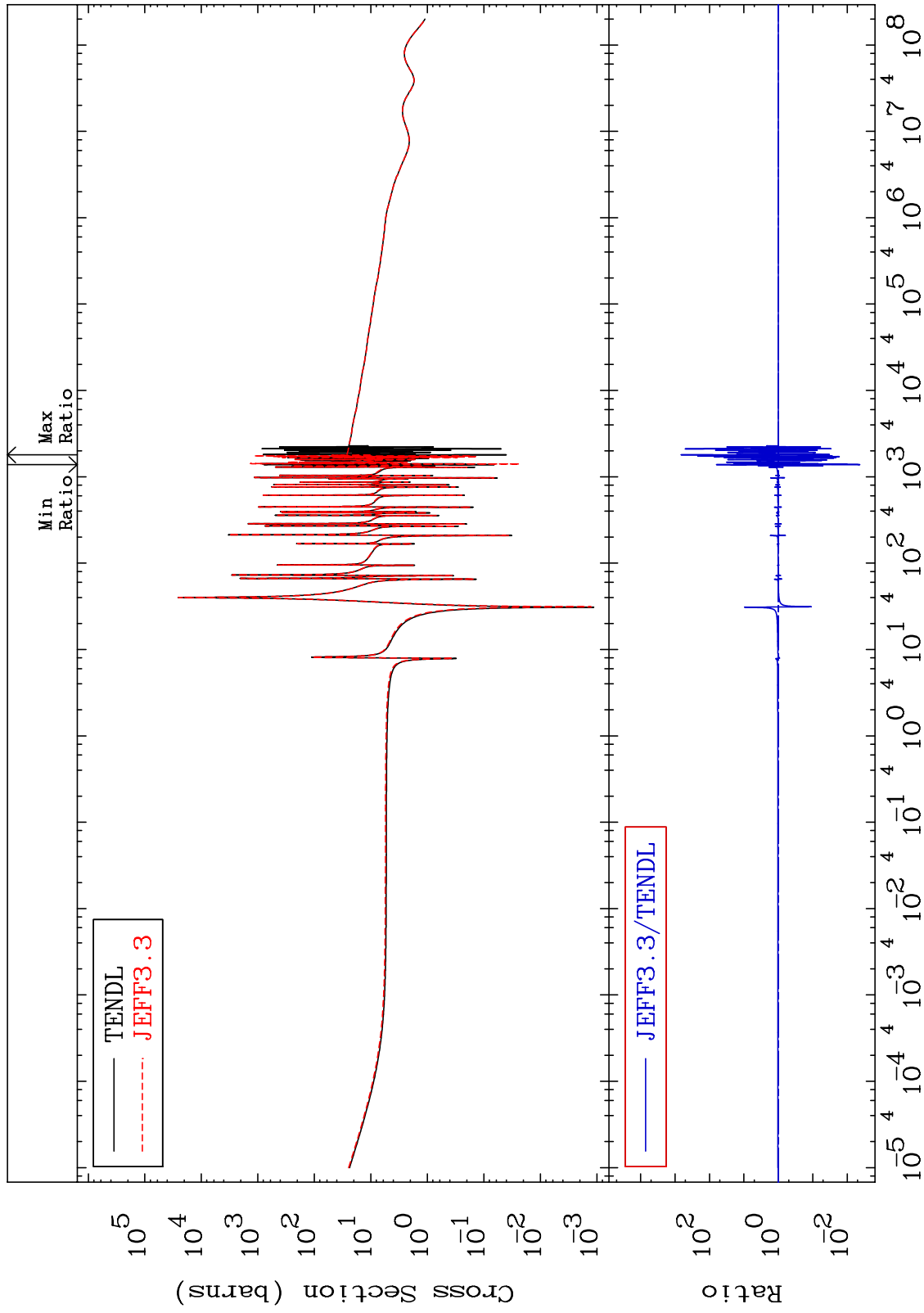
MAT 7031

Elastic

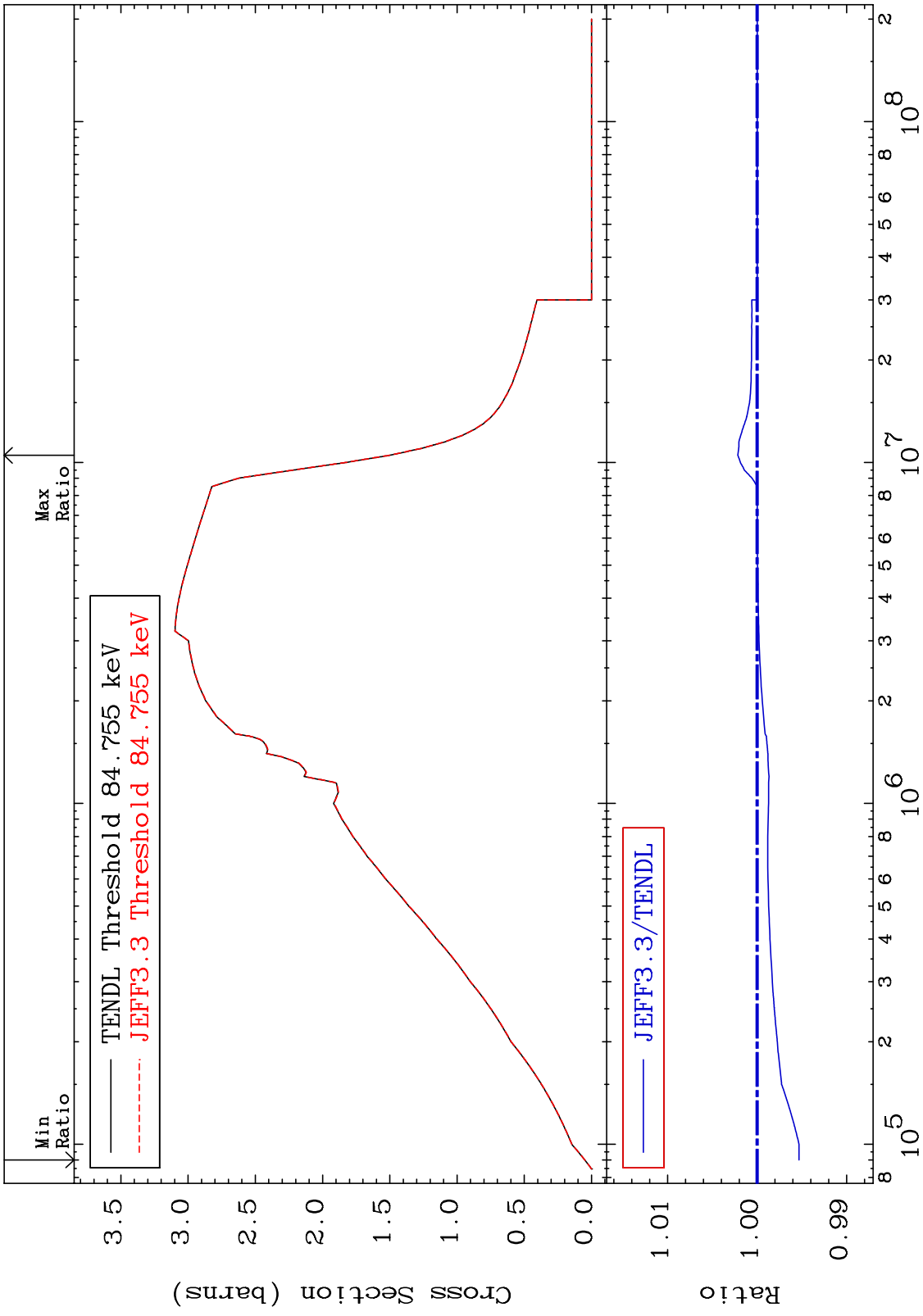
70-Yb-170

Cross Section

-99.57 To 9999. %

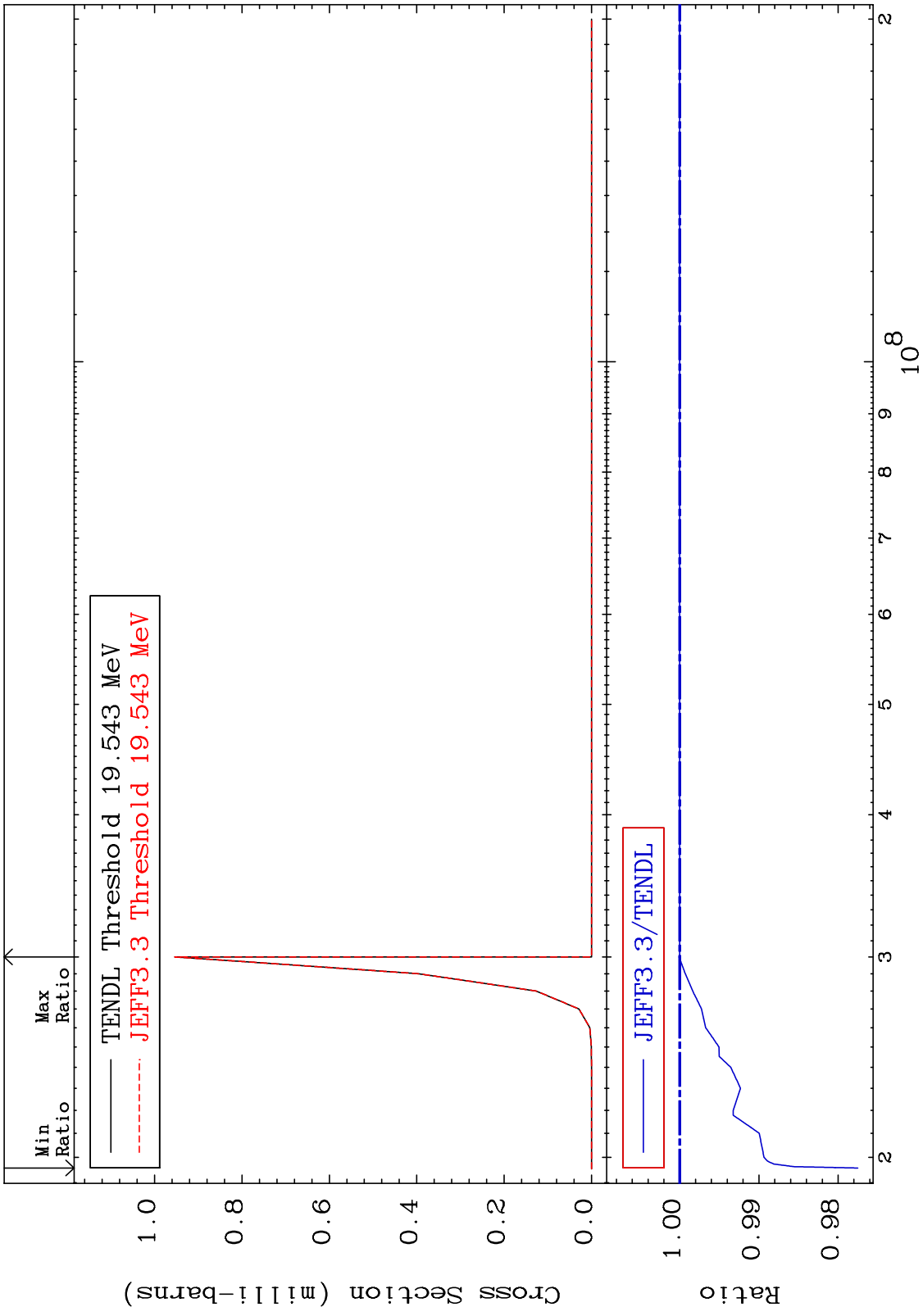


MAT 7031 Inelastic Cross Section 70-Yb-170 -0.468 To 0.216 %



3 Incident Energy (eV) 70-Yb-170

MAT 7031 (n,2n) d 70-Yb-170
 Cross Section -2.249 To 0.009 %

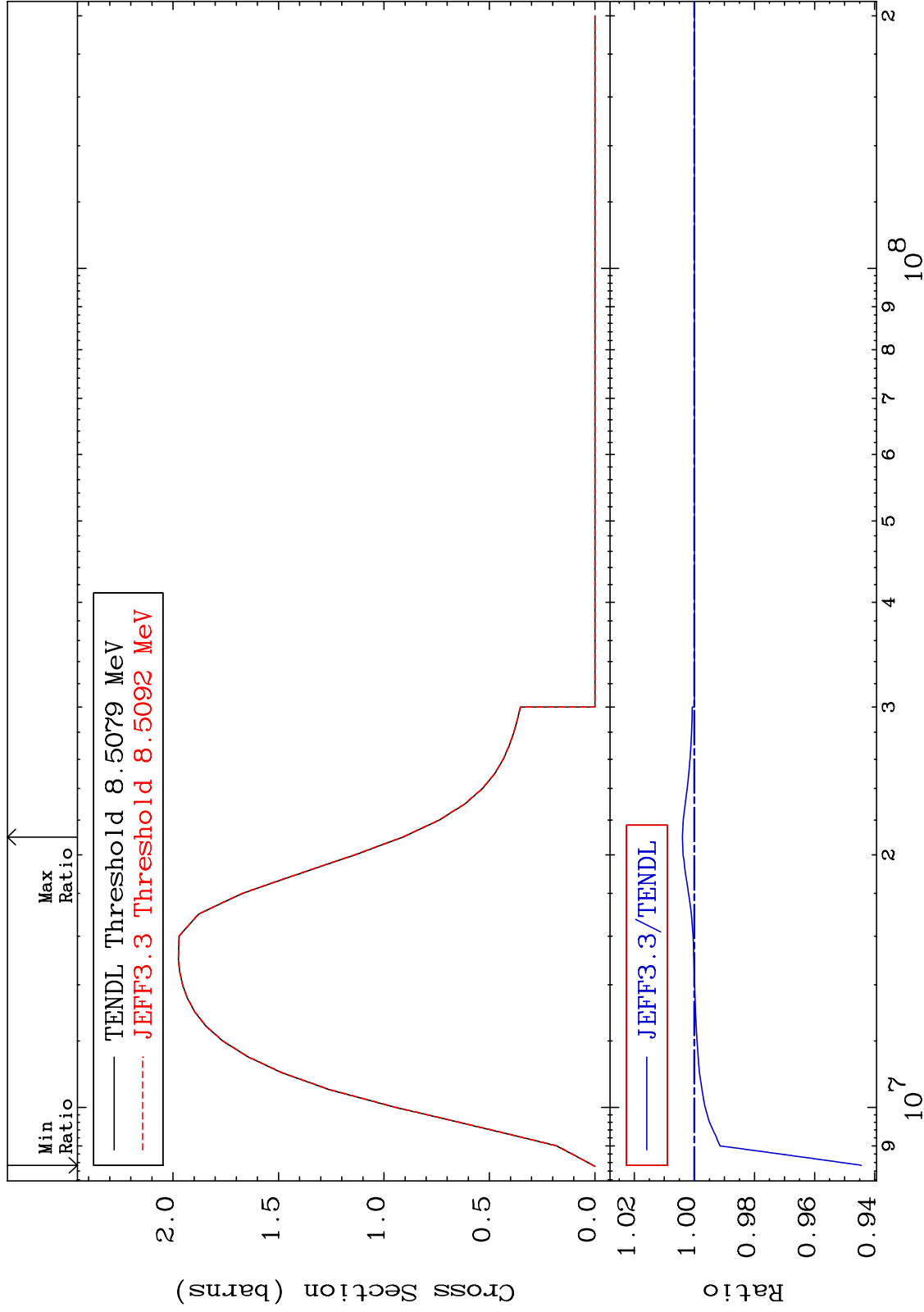


MAT 7031

(n,2n)

⁷⁰Yb-170

Cross Section -5.555 To 0.396 %



5

Incident Energy (eV)

⁷⁰Yb-170

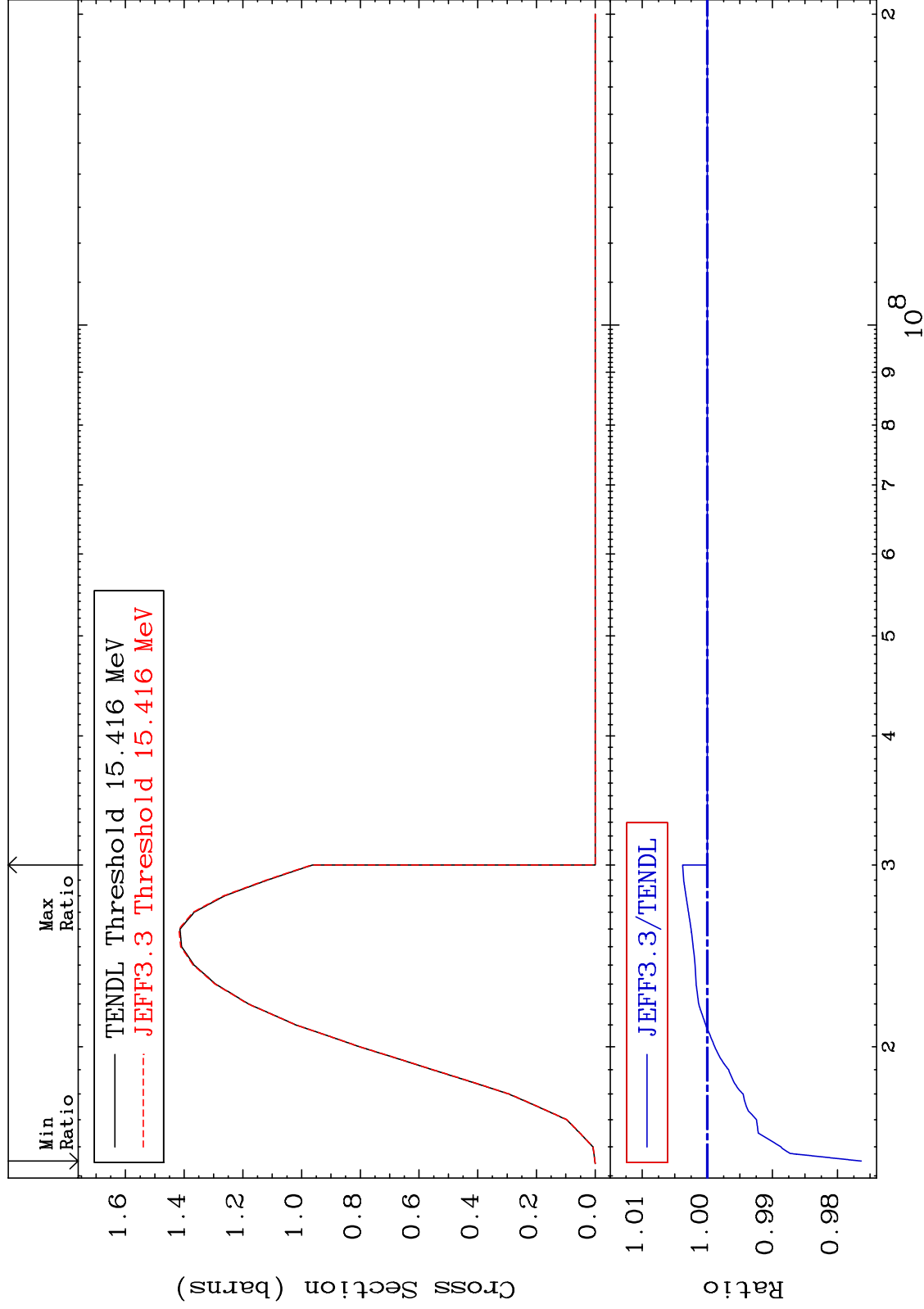
MAT 7031

(n,3n)

70-Yb-170

Cross Section

-2.365 To 0.380 %



6

Incident Energy (eV)

70-Yb-170

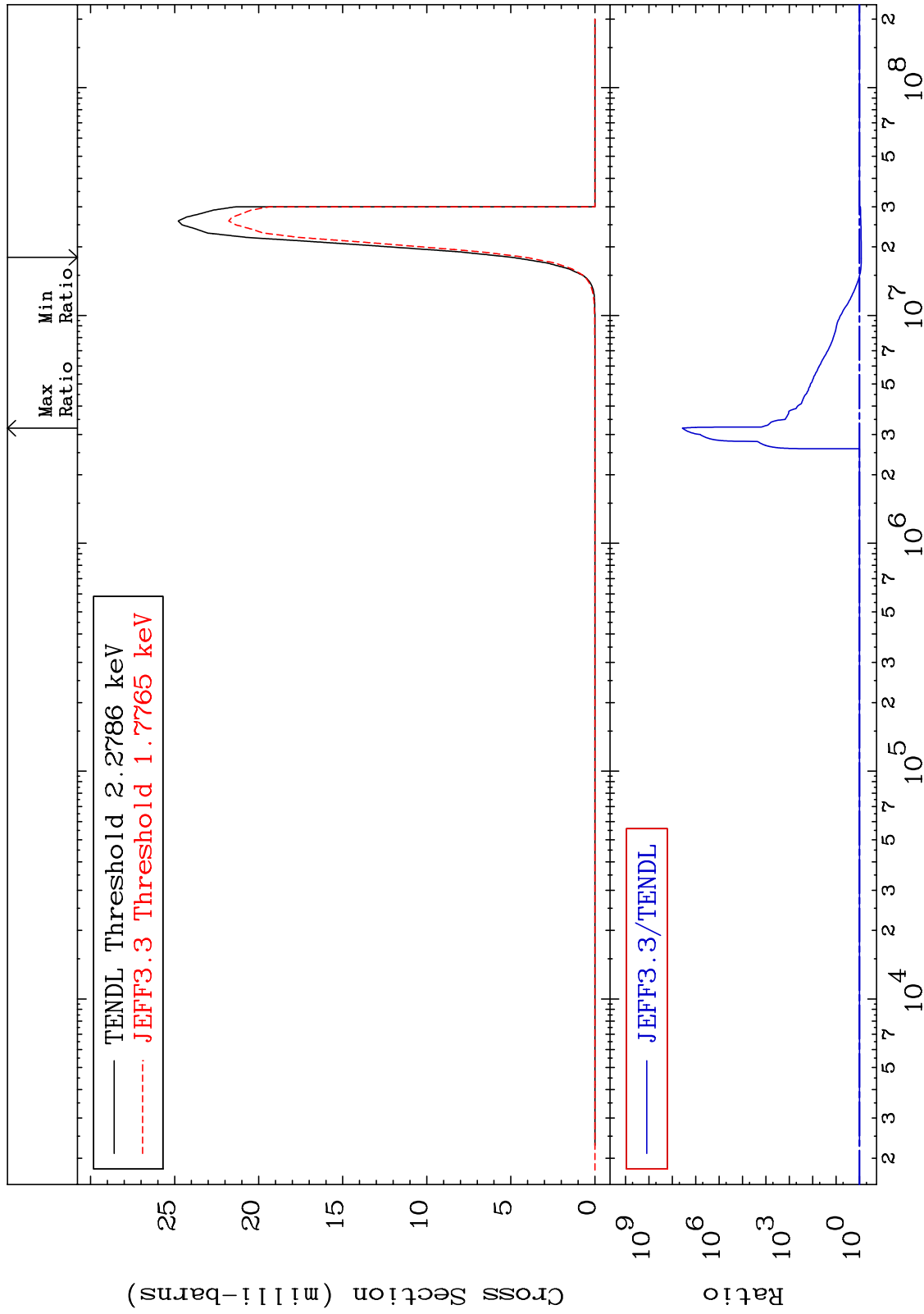
MAT 7031

$(n, n') \alpha$

70-Yb-170

Cross Section

-16.37 To 9999. %

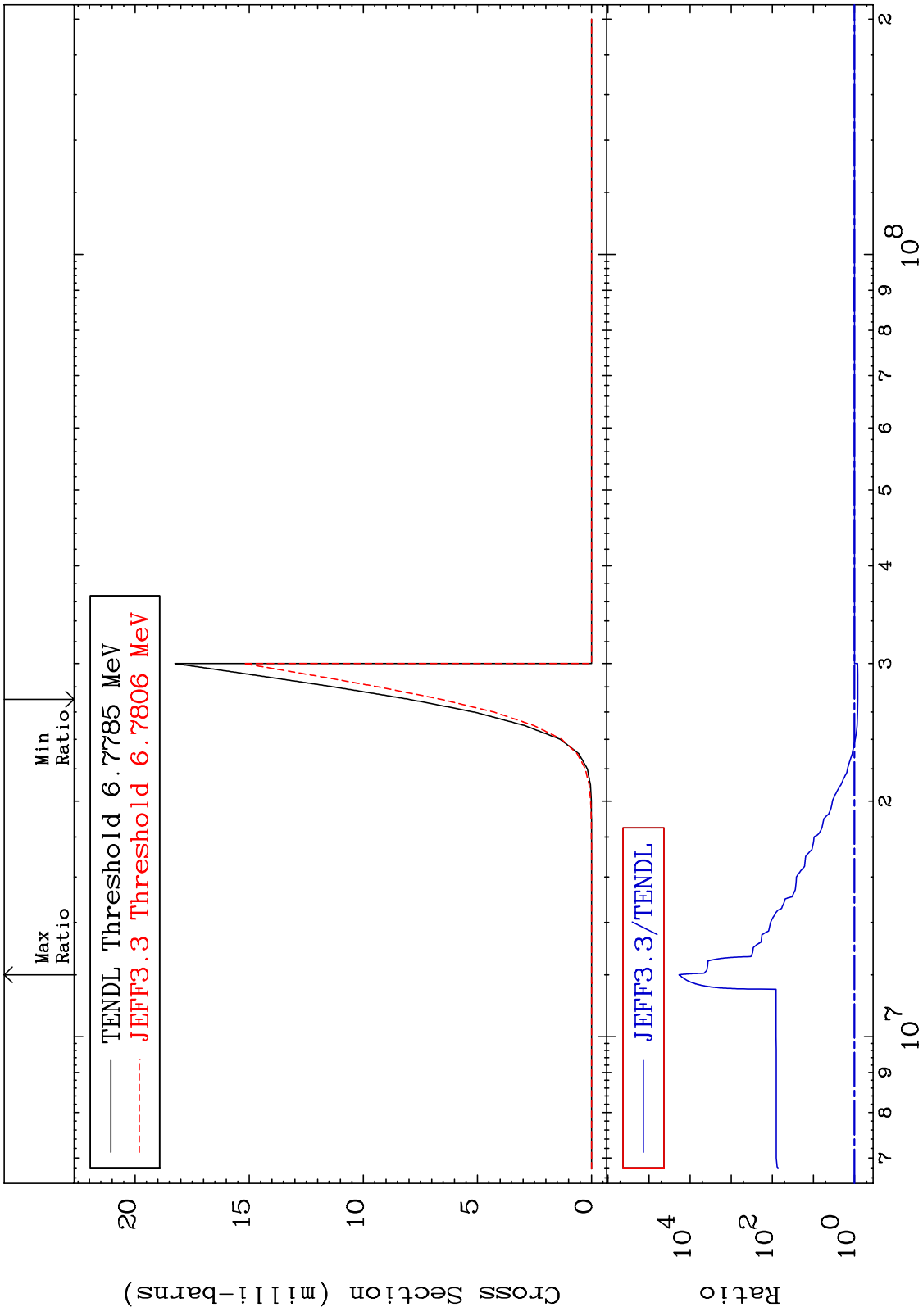


7

Incident Energy (eV)

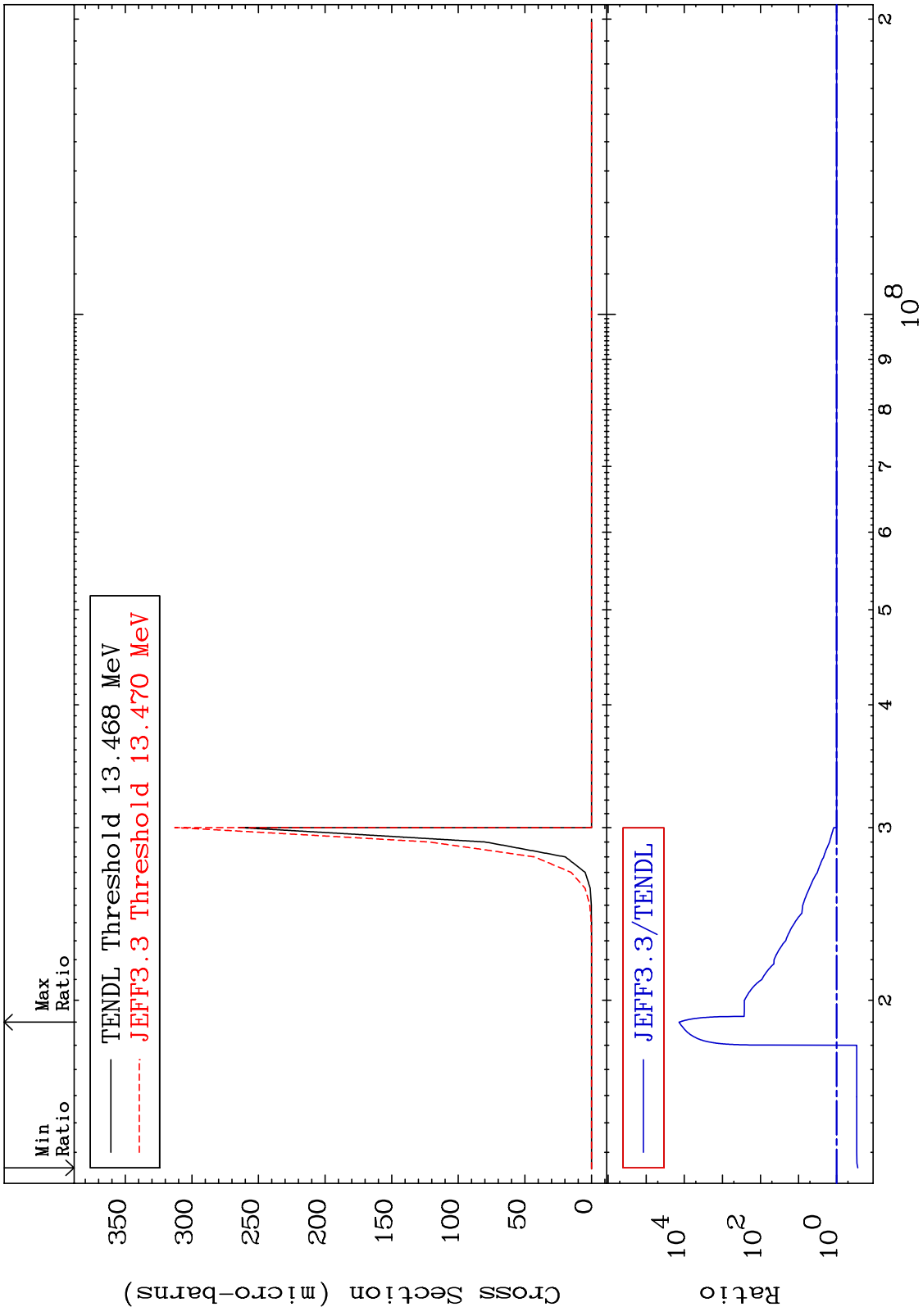
70-Yb-170

MAT 7031 $(n, 2n) \alpha$ $^{70}\text{Yb-170}$
 Cross Section -17.51 To 9999. %

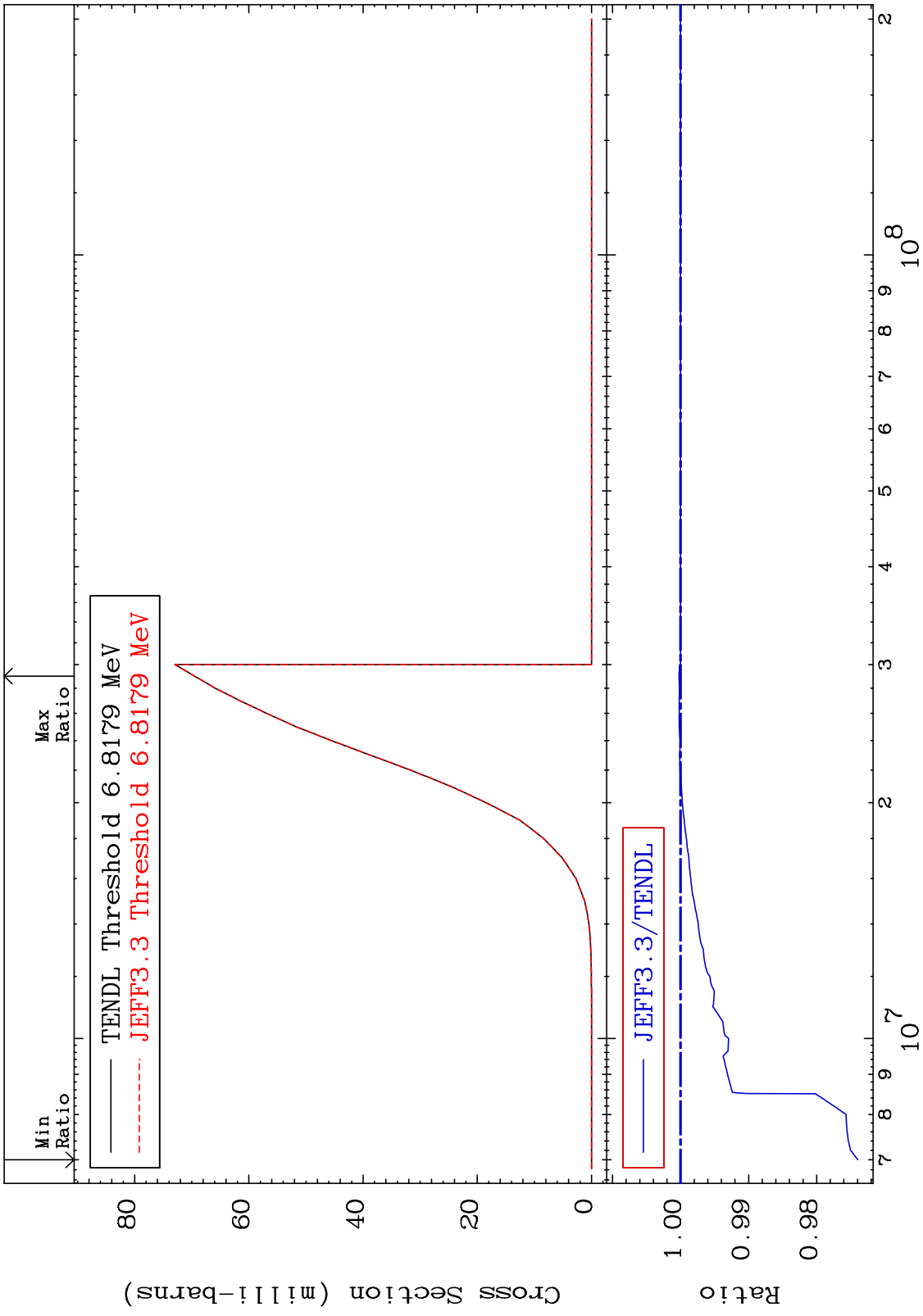


8 Incident Energy (eV) $^{70}\text{Yb-170}$

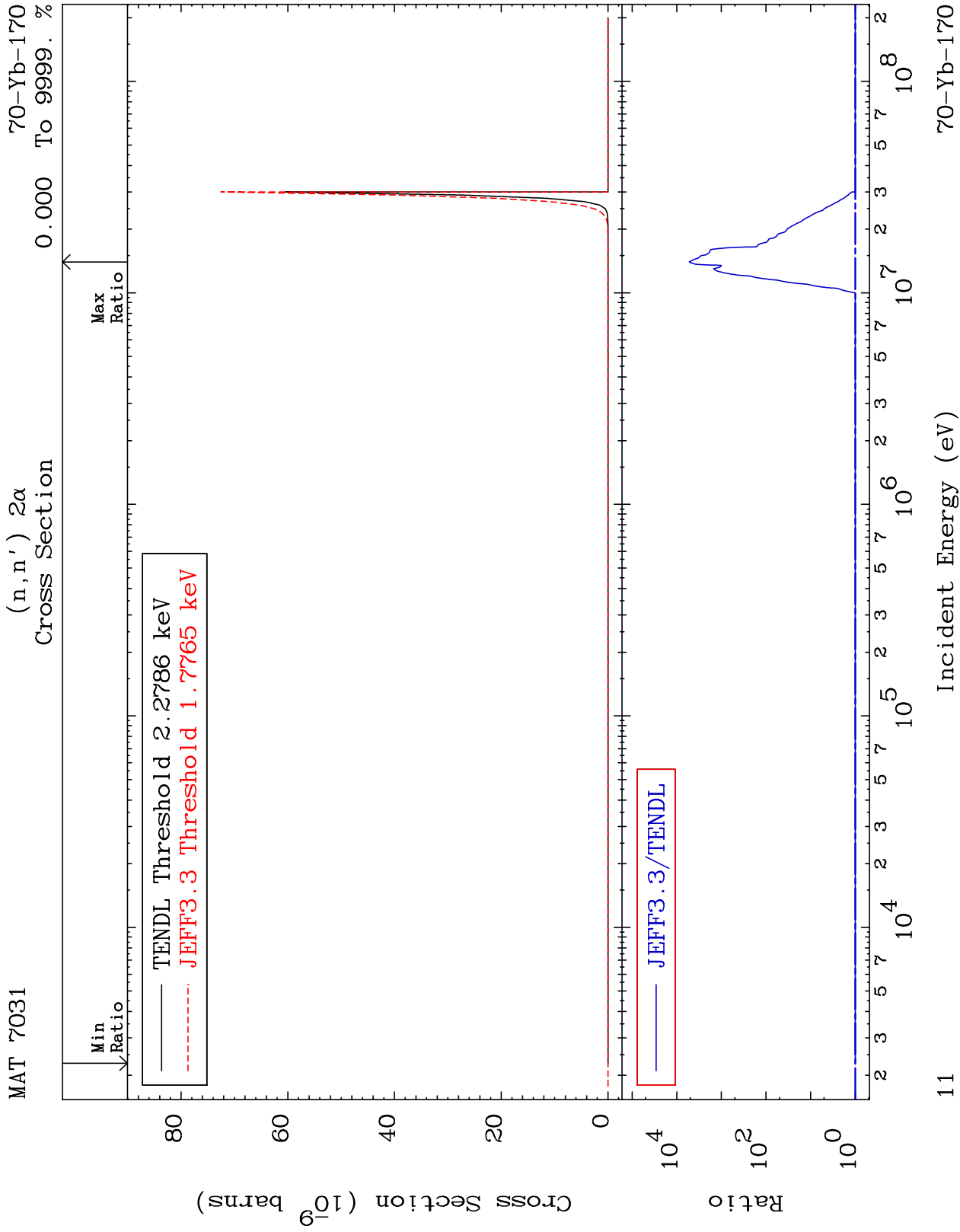
MAT 7031 $(n, 3n) \alpha$ $^{70}\text{Yb-170}$
 Cross Section -72.38 To 9999. %



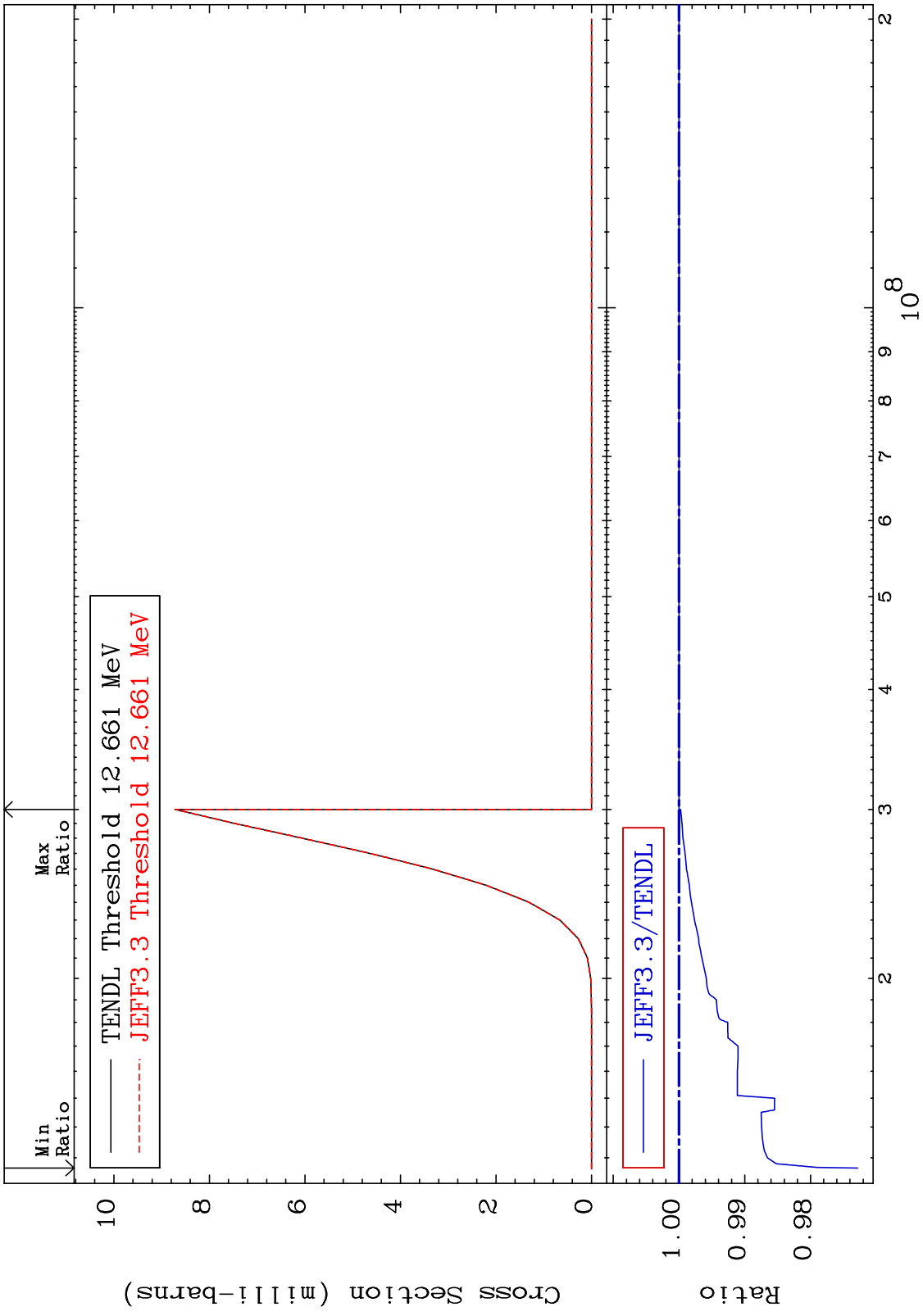
MAT 7031 $(n, n') p$ $^{70}\text{Yb-170}$
 Cross Section -2.605 To 0.022 %



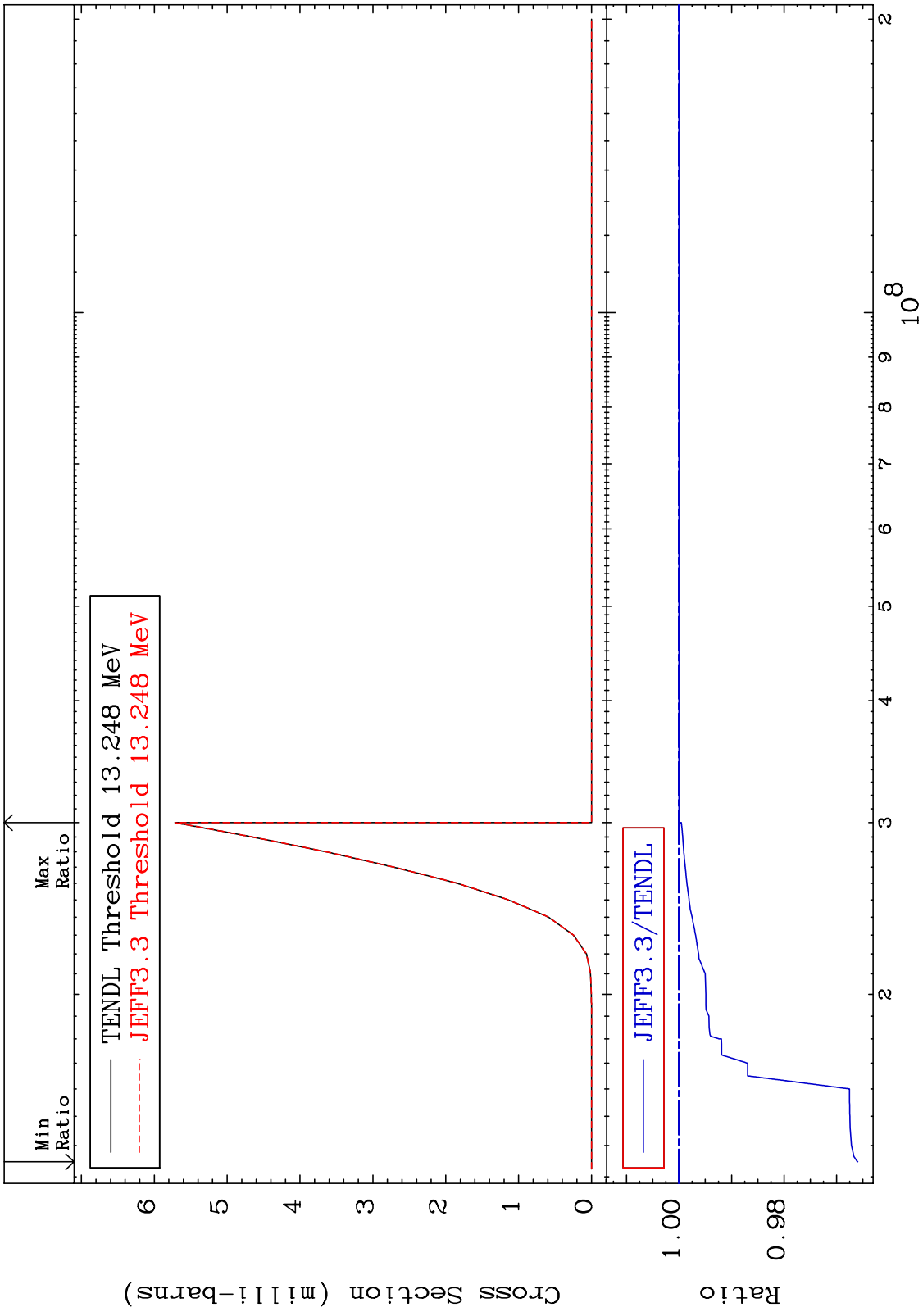
10 Incident Energy (eV) $^{70}\text{Yb-170}$



MAT 7031 $(n, n') d$ 70-Yb-170
 Cross Section -2.719 To 0.000 %



MAT 7031 (n, n') t $^{70}\text{Yb-170}$
 Cross Section -3.404 To 0.000 %

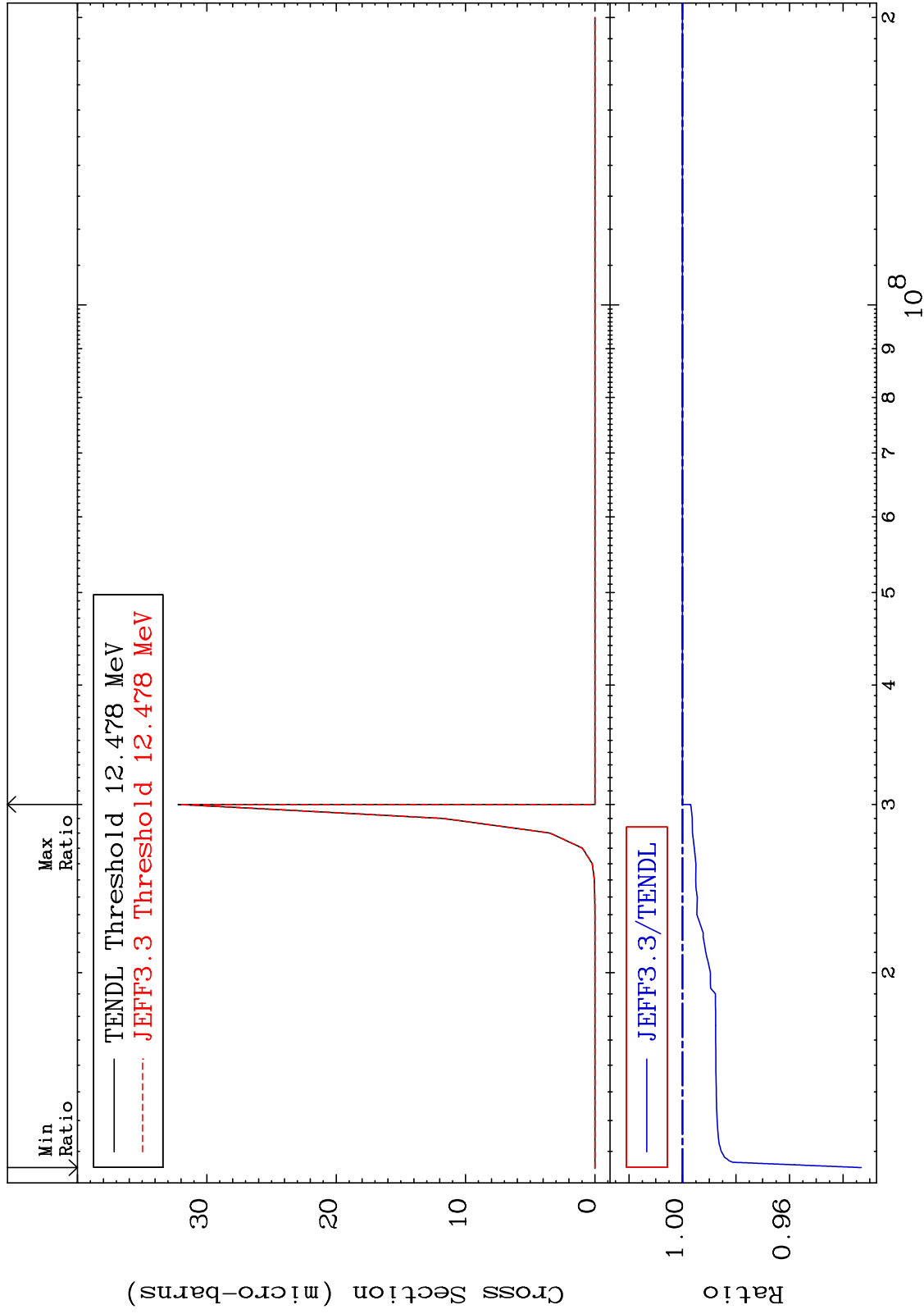


13 $^{70}\text{Yb-170}$

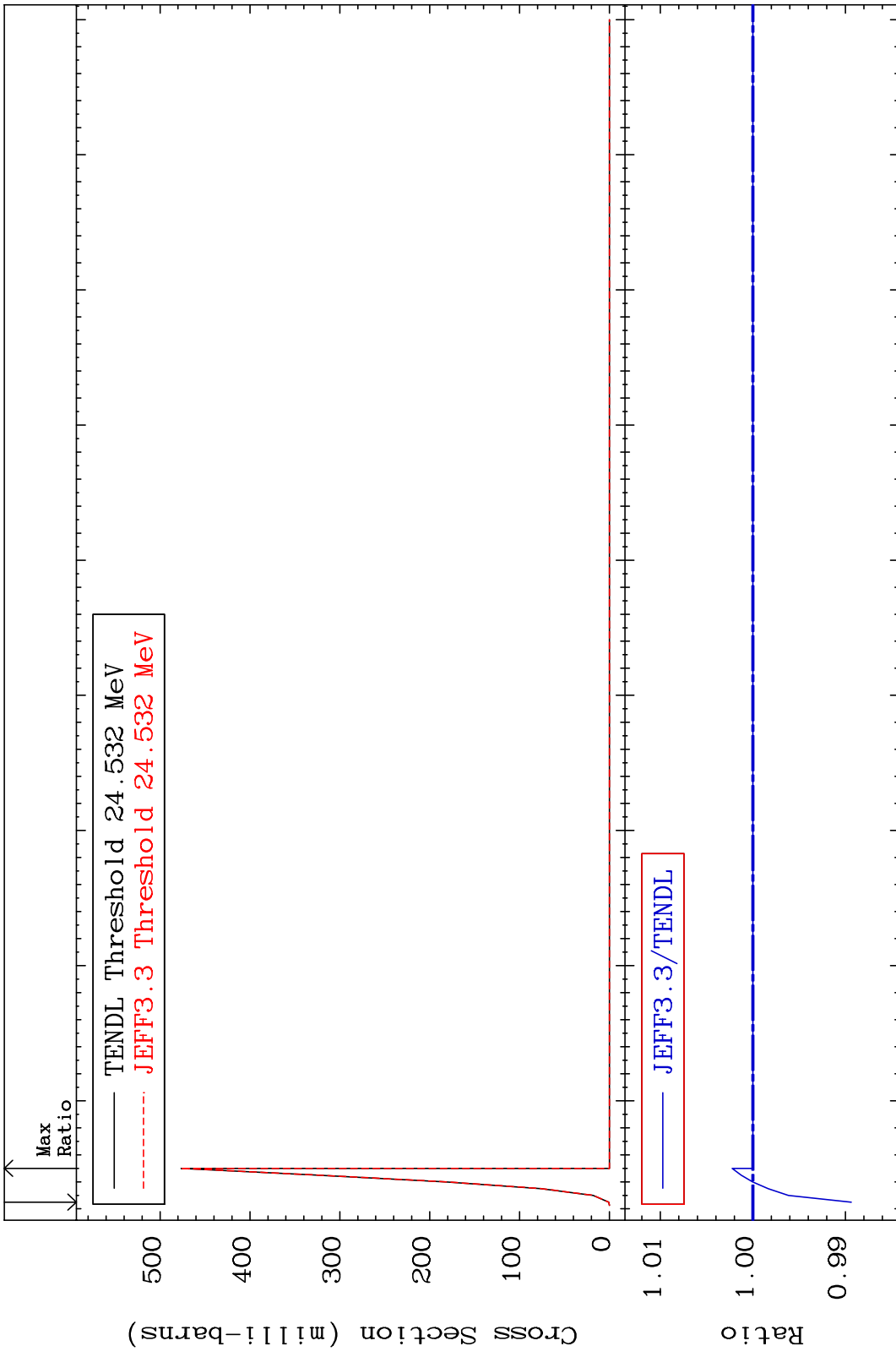
MAT 7031

(n, n') He-3
Cross Section

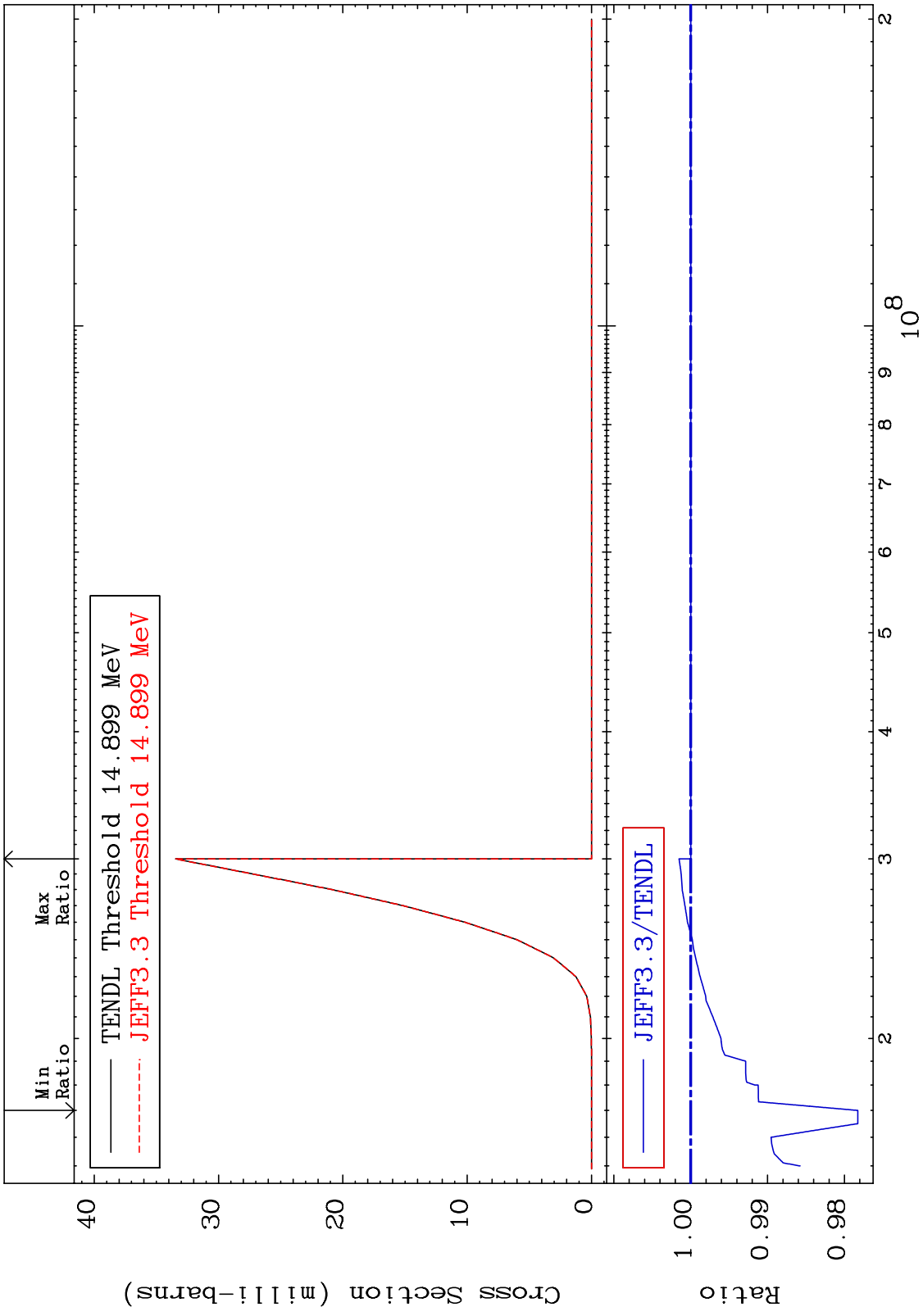
70-Yb-170
-6.683 To 0.000 %



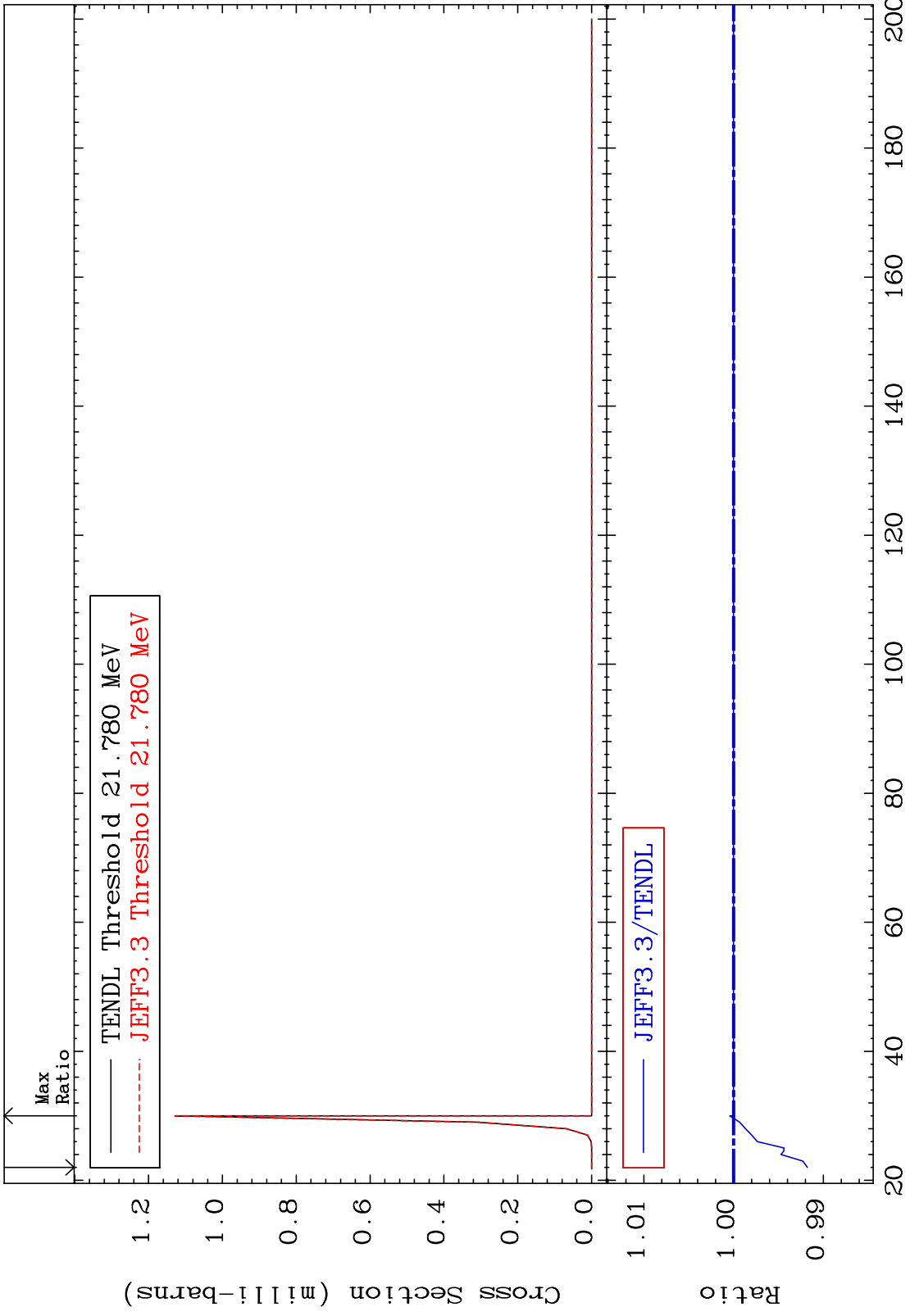
MAT 7031 (n,4n) Cross Section 70-Yb-170 -1.064 To 0.224 %



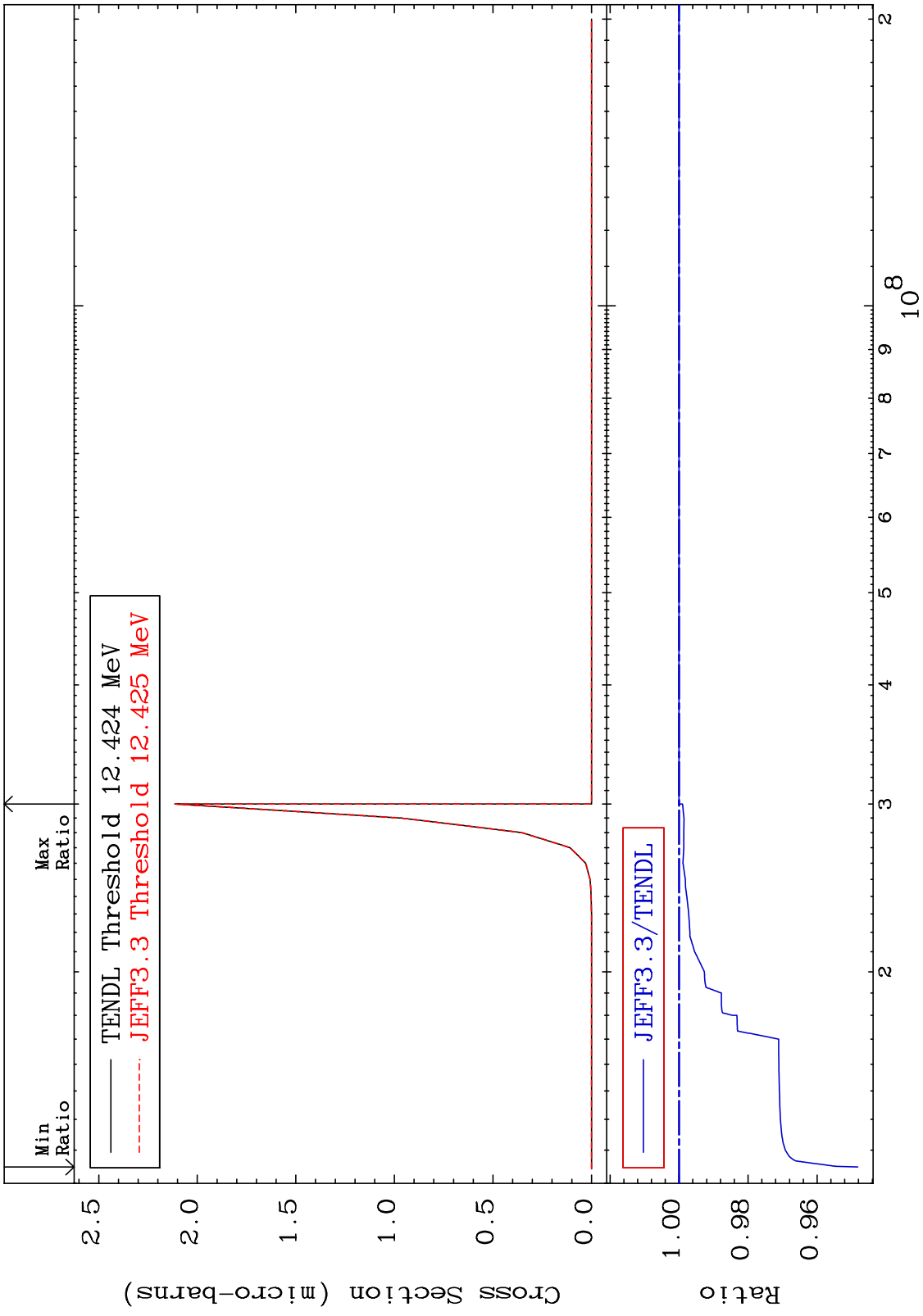
MAT 7031 $(n, 2n) p$ 70-Yb-170
 Cross Section -2.174 To 0.152 %



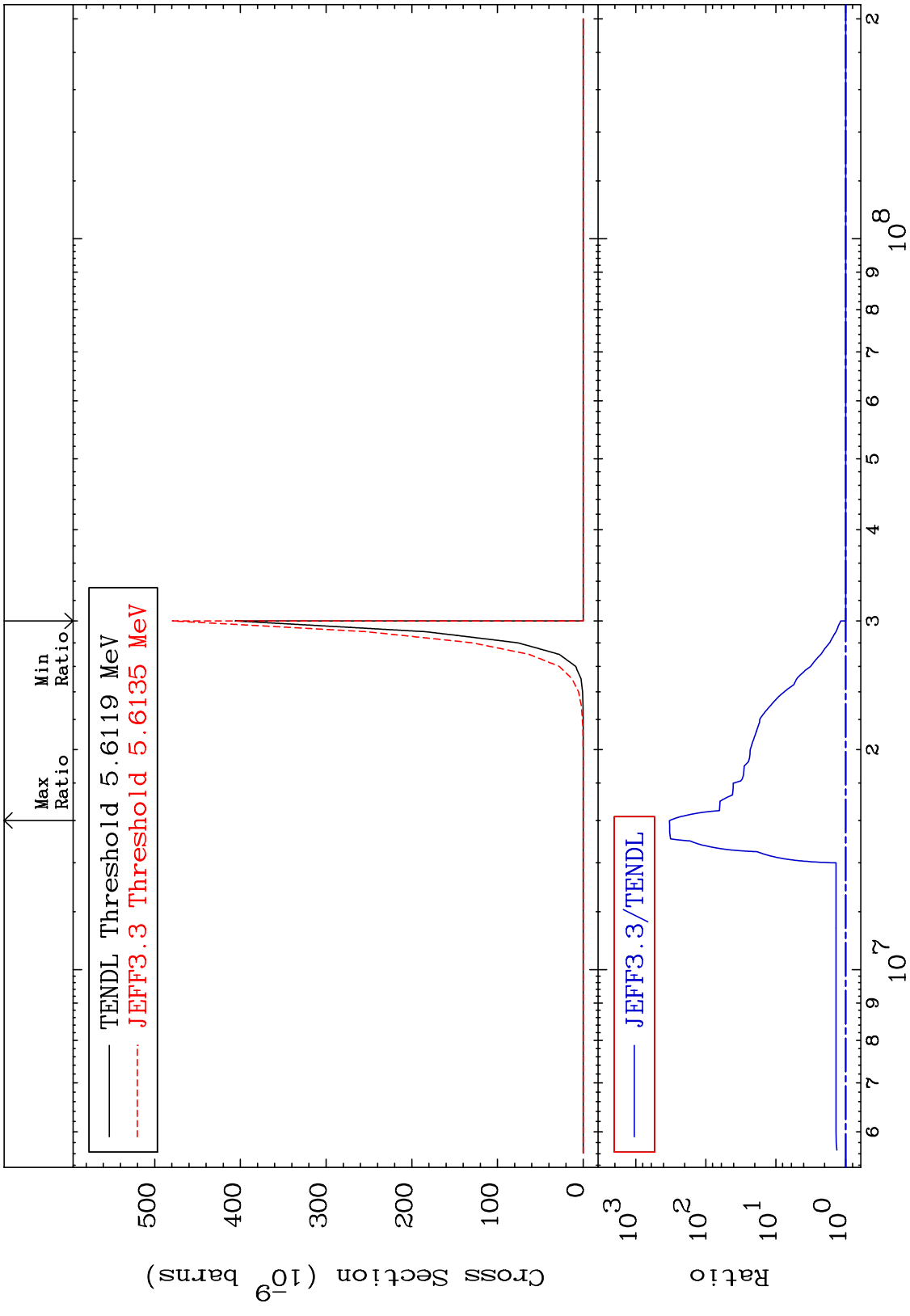
MAT 7031 (n,3n) p 70-Yb-170
Cross Section -0.821 To 0.043 %



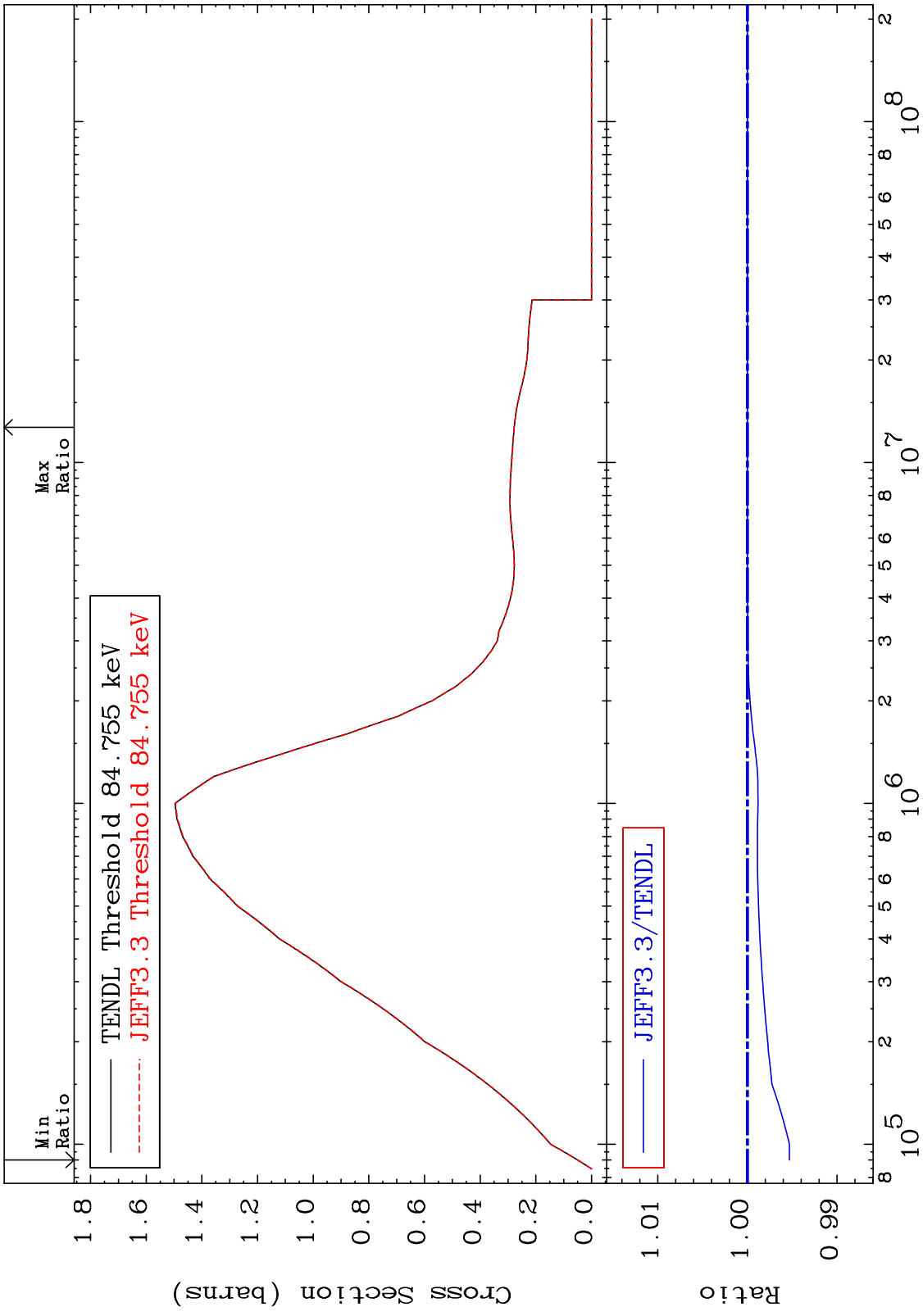
MAT 7031 (n,2n) p 70-Yb-170
 Cross Section -5.180 To 0.000 %



MAT 7031 (n, n') p α 70-Yb-170
 Cross Section 0.000 To 9999. %

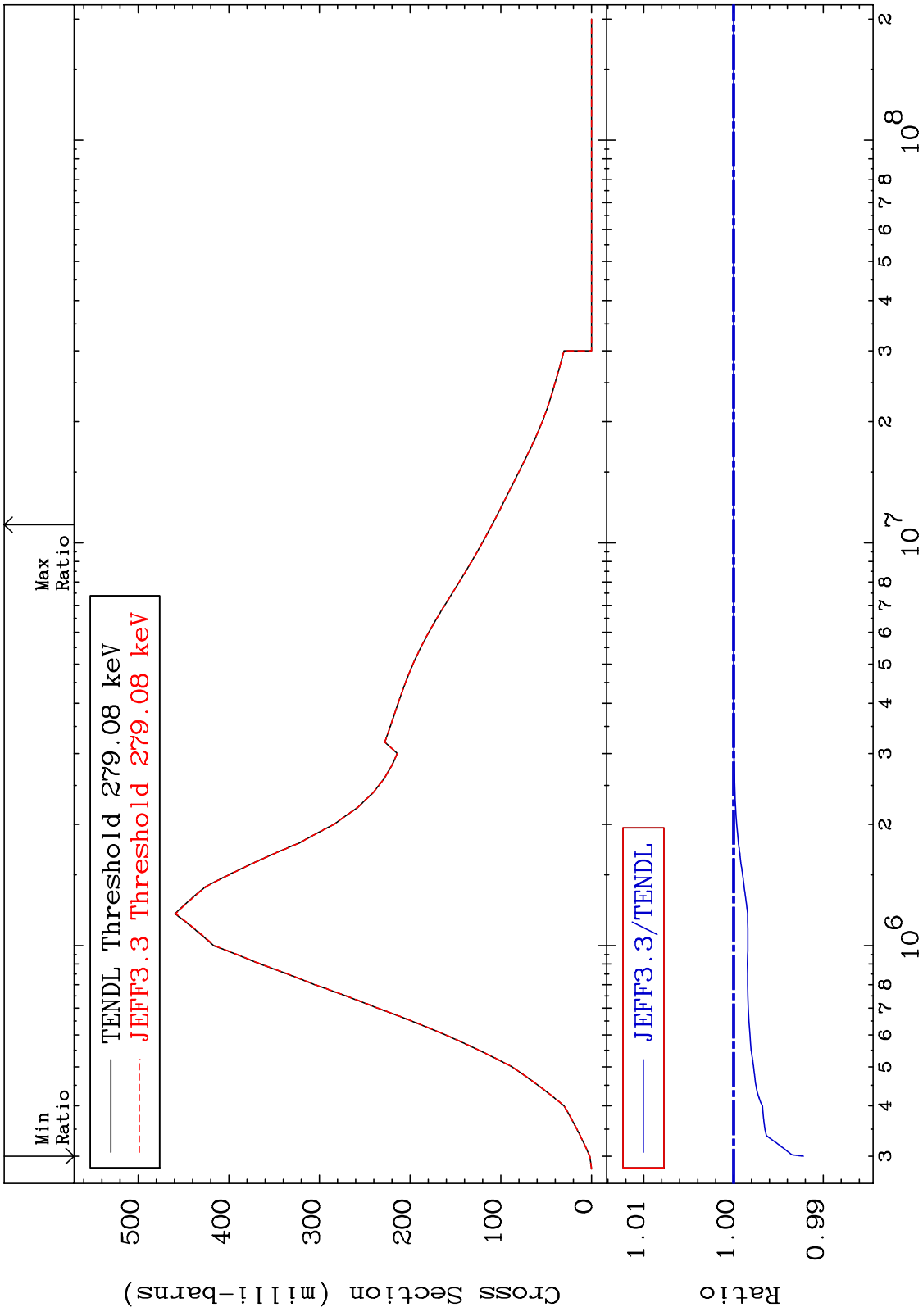


MAT 7031 MT= 51 (n,n') Level Cross Section 70-Yb-170
 -0.468 To 0.000 %

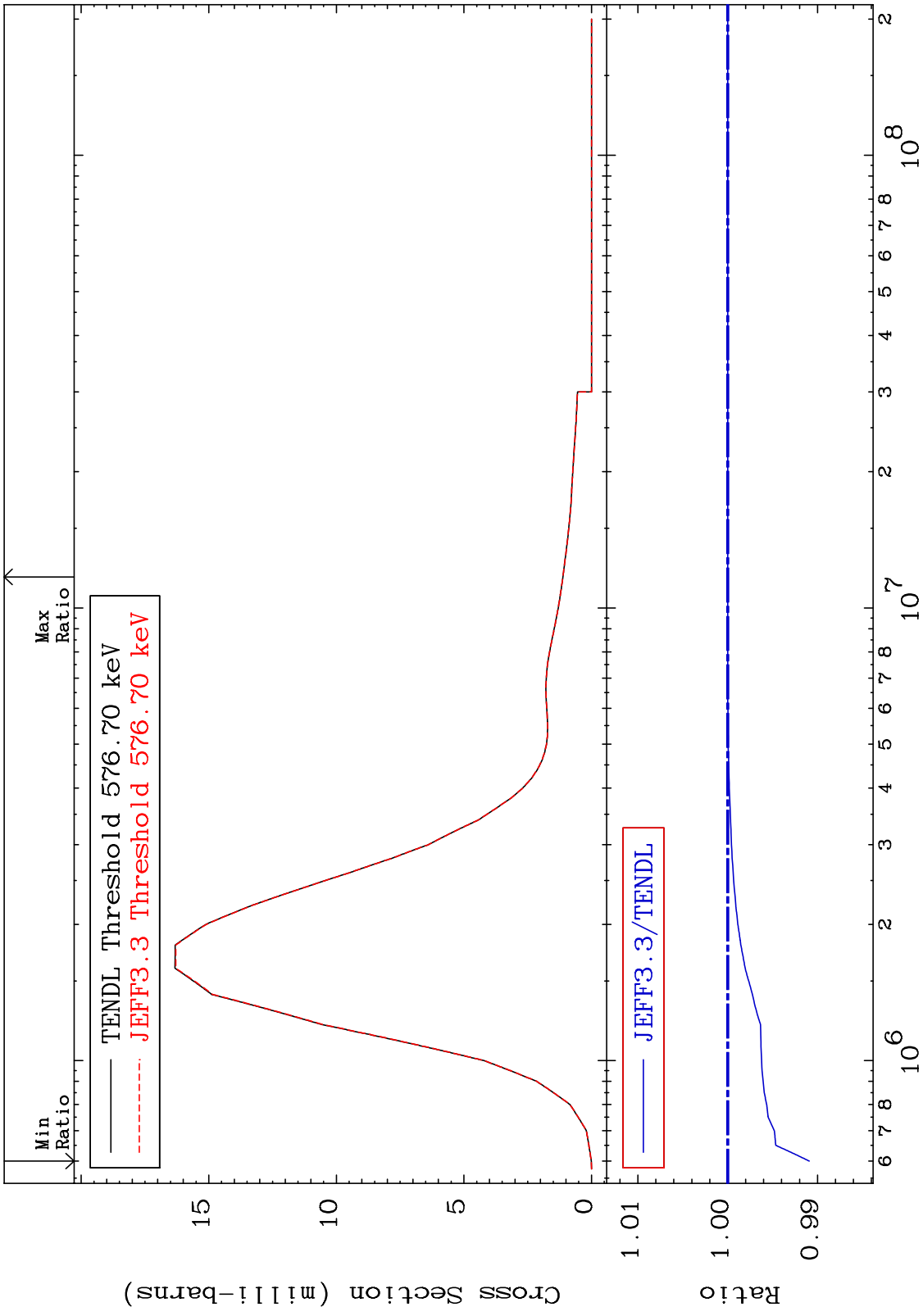


20 Incident Energy (eV) 70-Yb-170

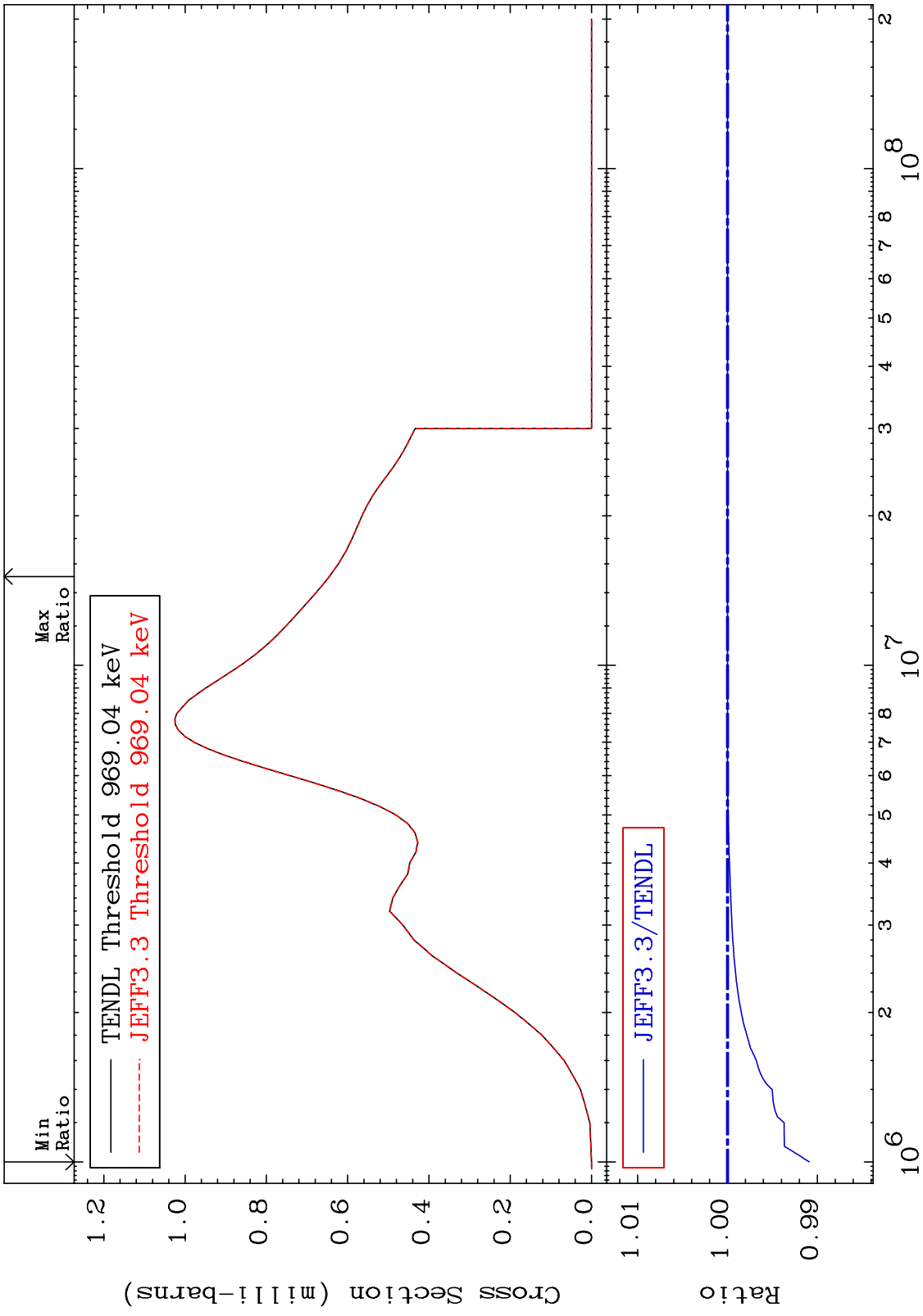
MAT 7031 MT= 52 (n, n') Level Cross Section -0.777 To 0.000 % 70-Yb-170



MAT 7031 MT= 53 (n,n') Level Cross Section 70-Yb-170
 -0.907 To 0.000 %

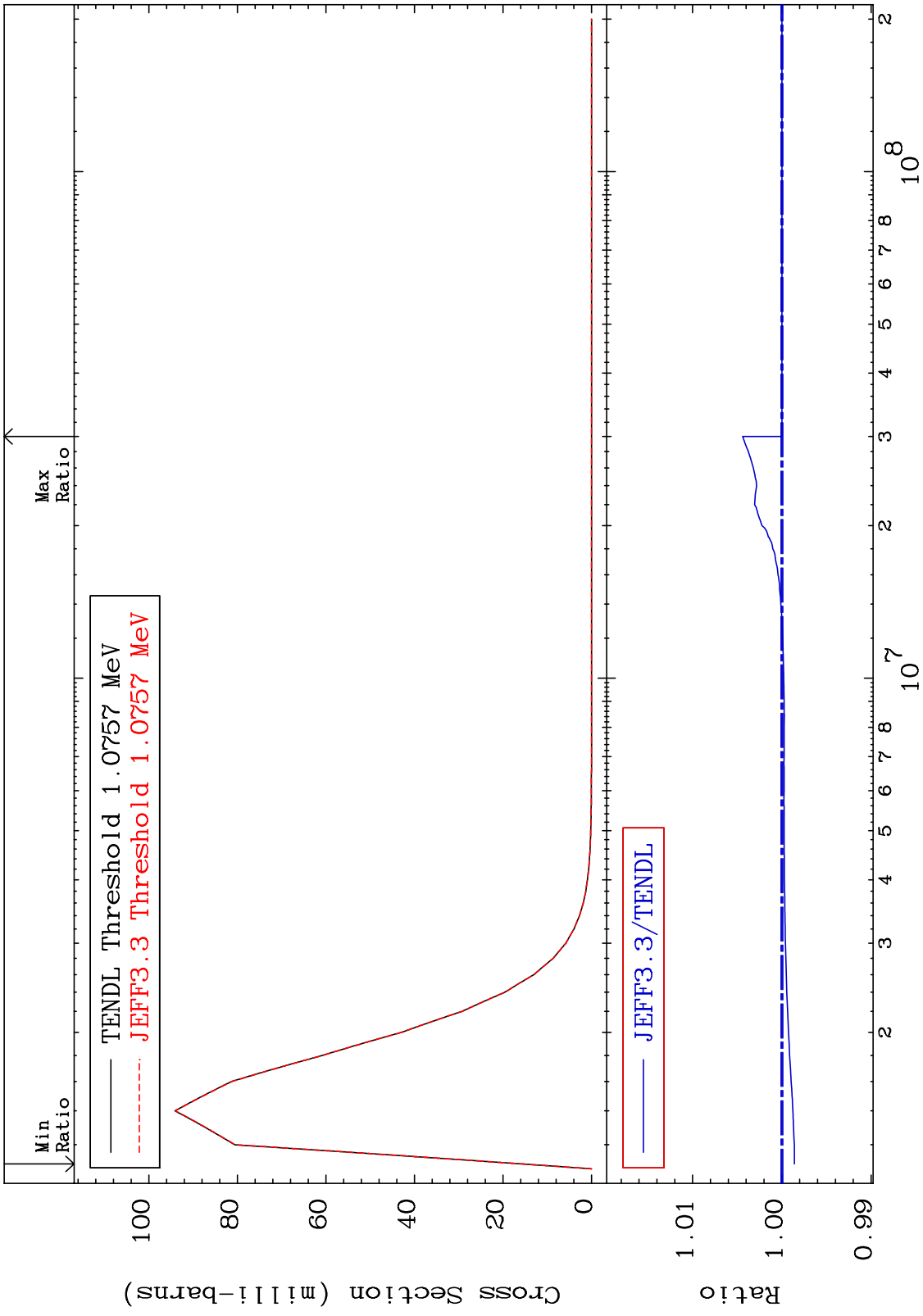


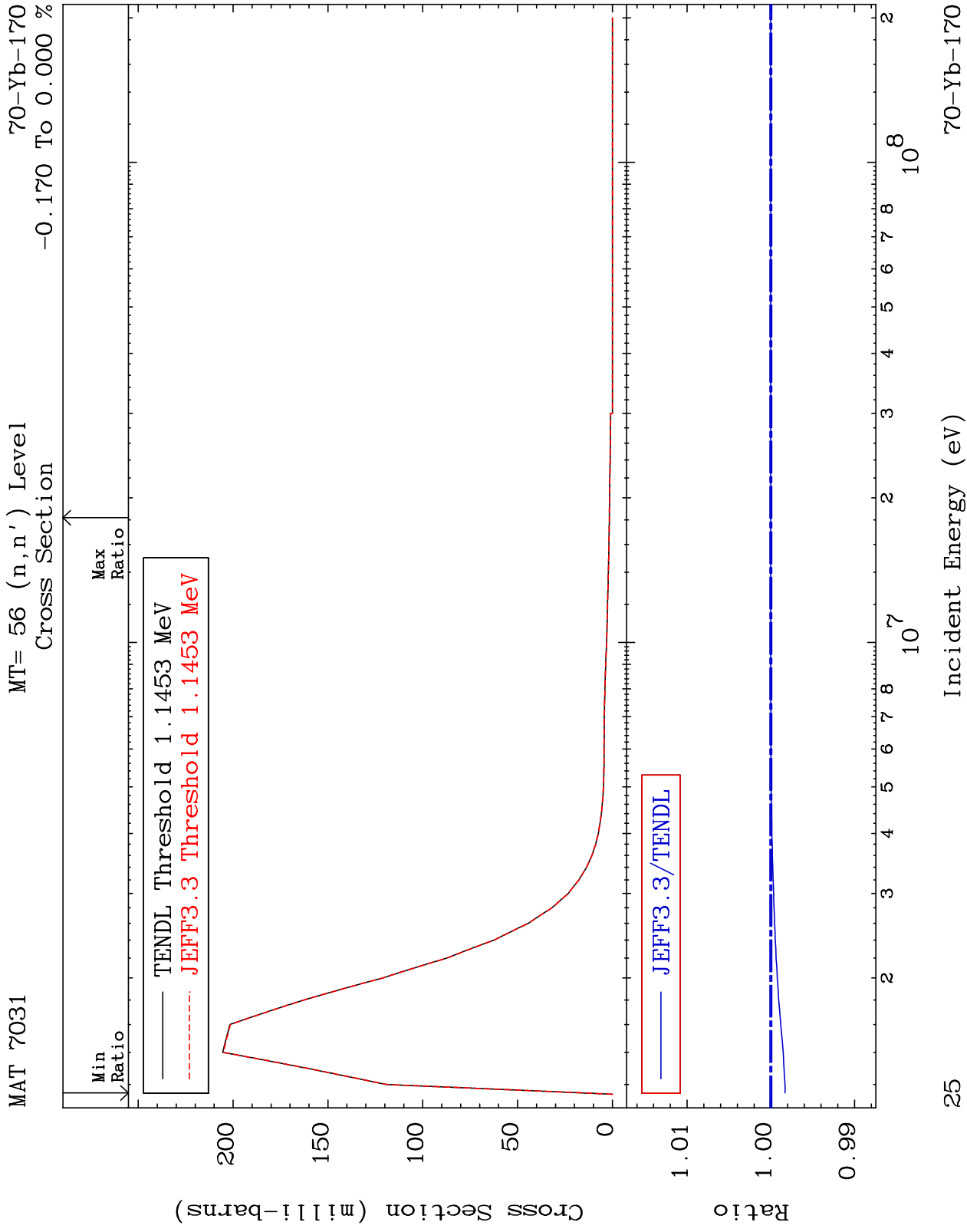
MAT 7031 MT= 54 (n,n') Level Cross Section 70-Yb-170
 -0.911 To 0.000 %



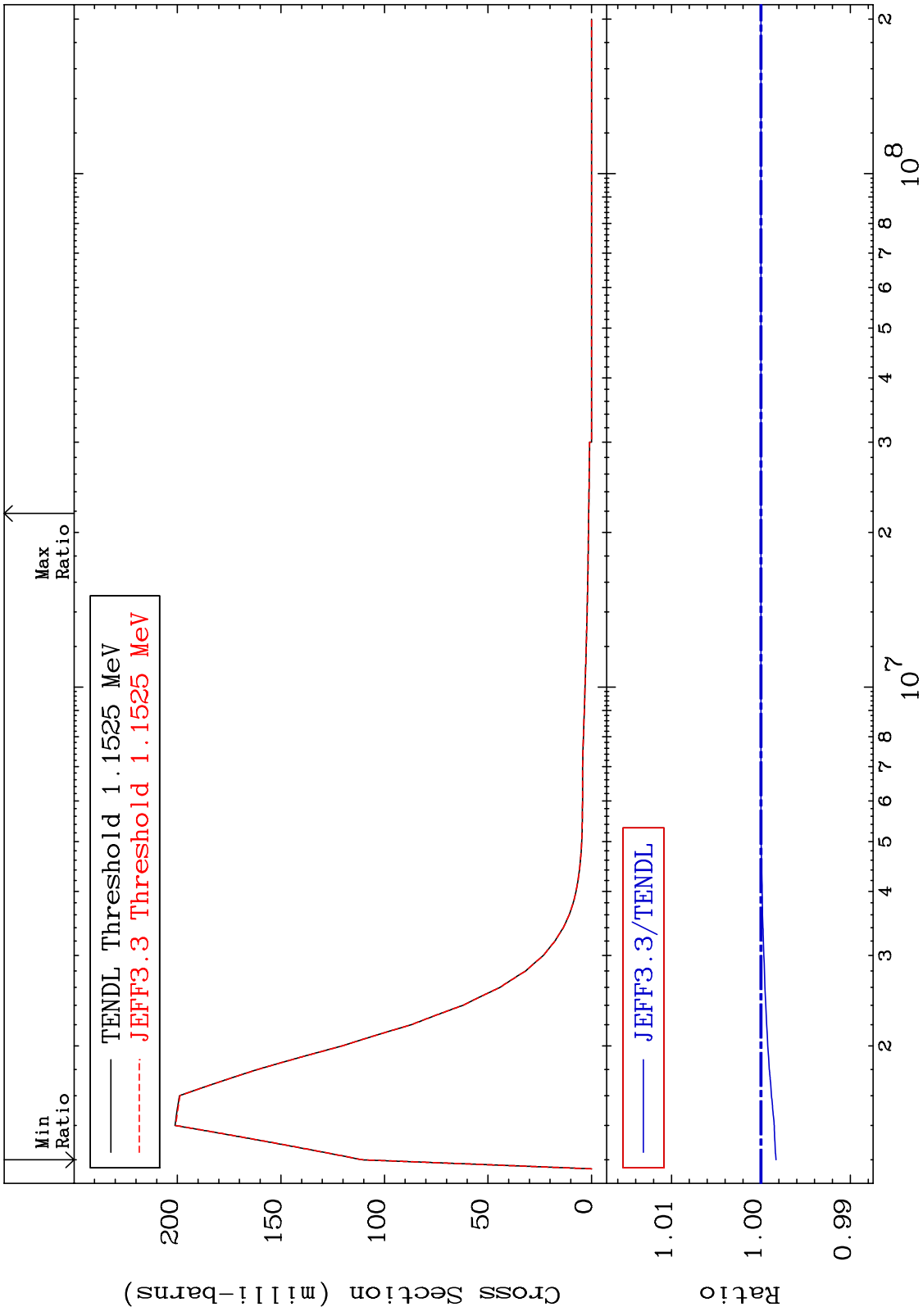
23 Incident Energy (eV) 70-Yb-170

MAT 7031 MT= 55 (n,n') Level Cross Section 70-Yb-170
 -0.139 To 0.440 %

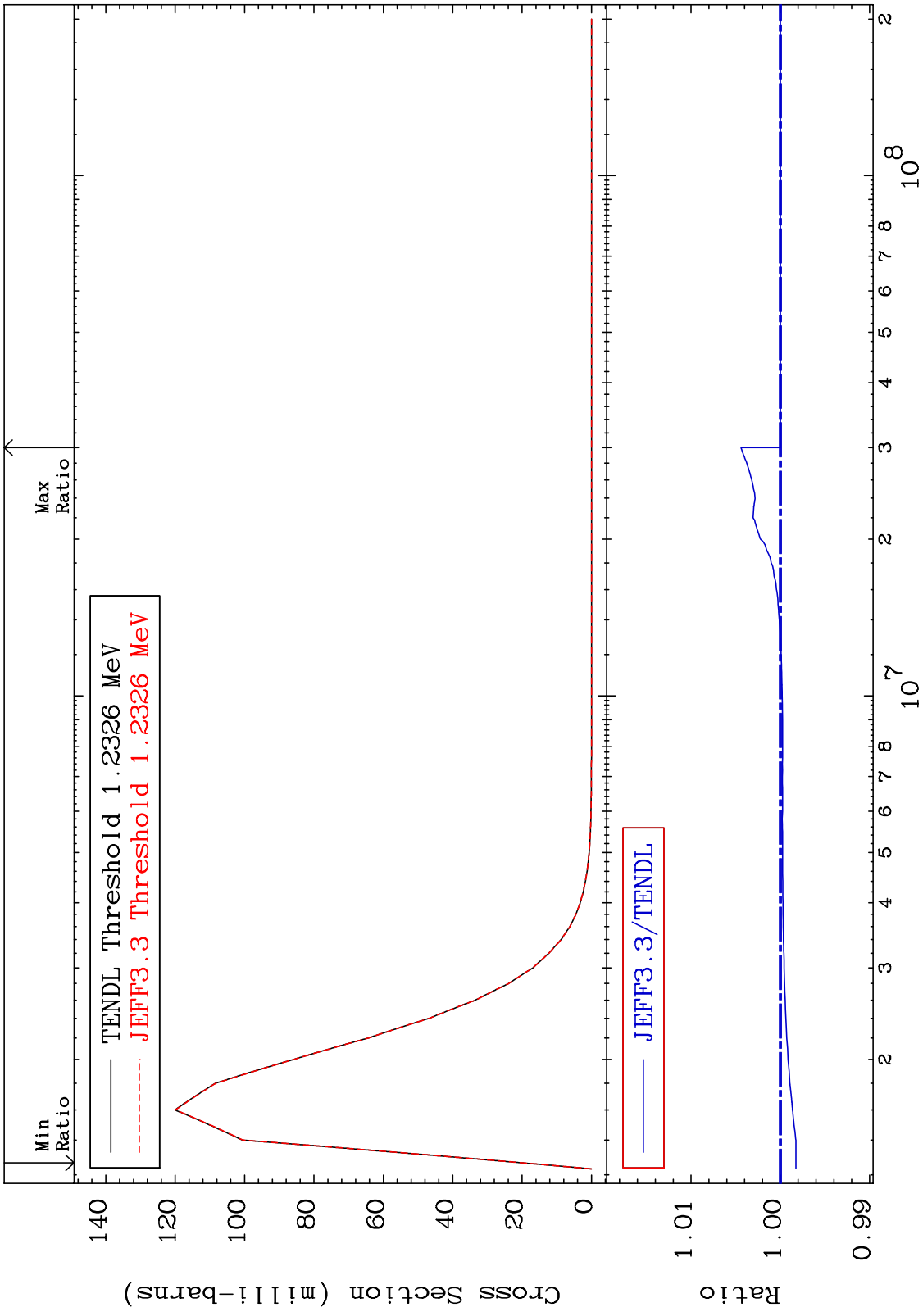




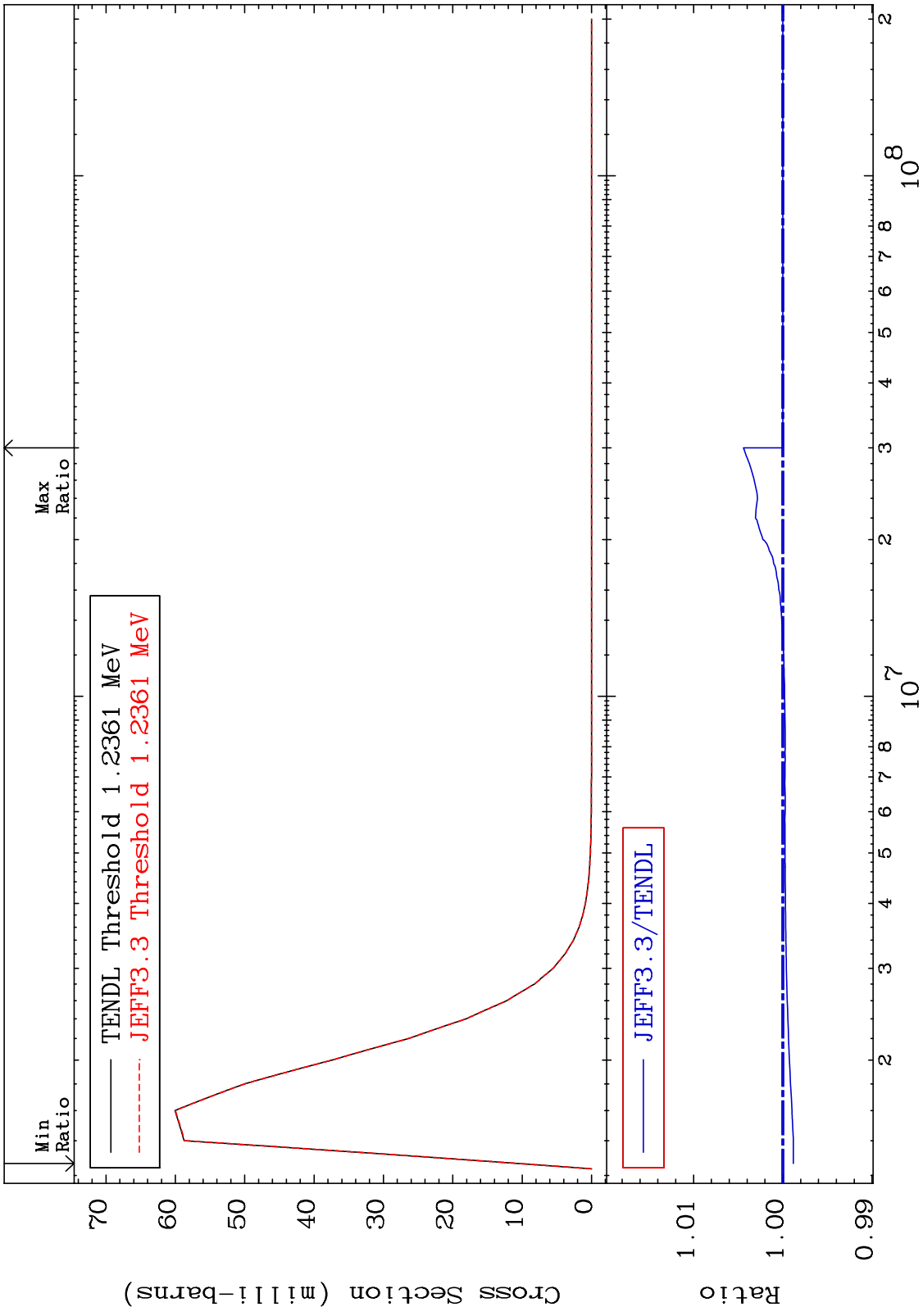
MAT 7031 MT= 57 (n, n') Level Cross Section -0.168 To 0.000 % 70-Yb-170



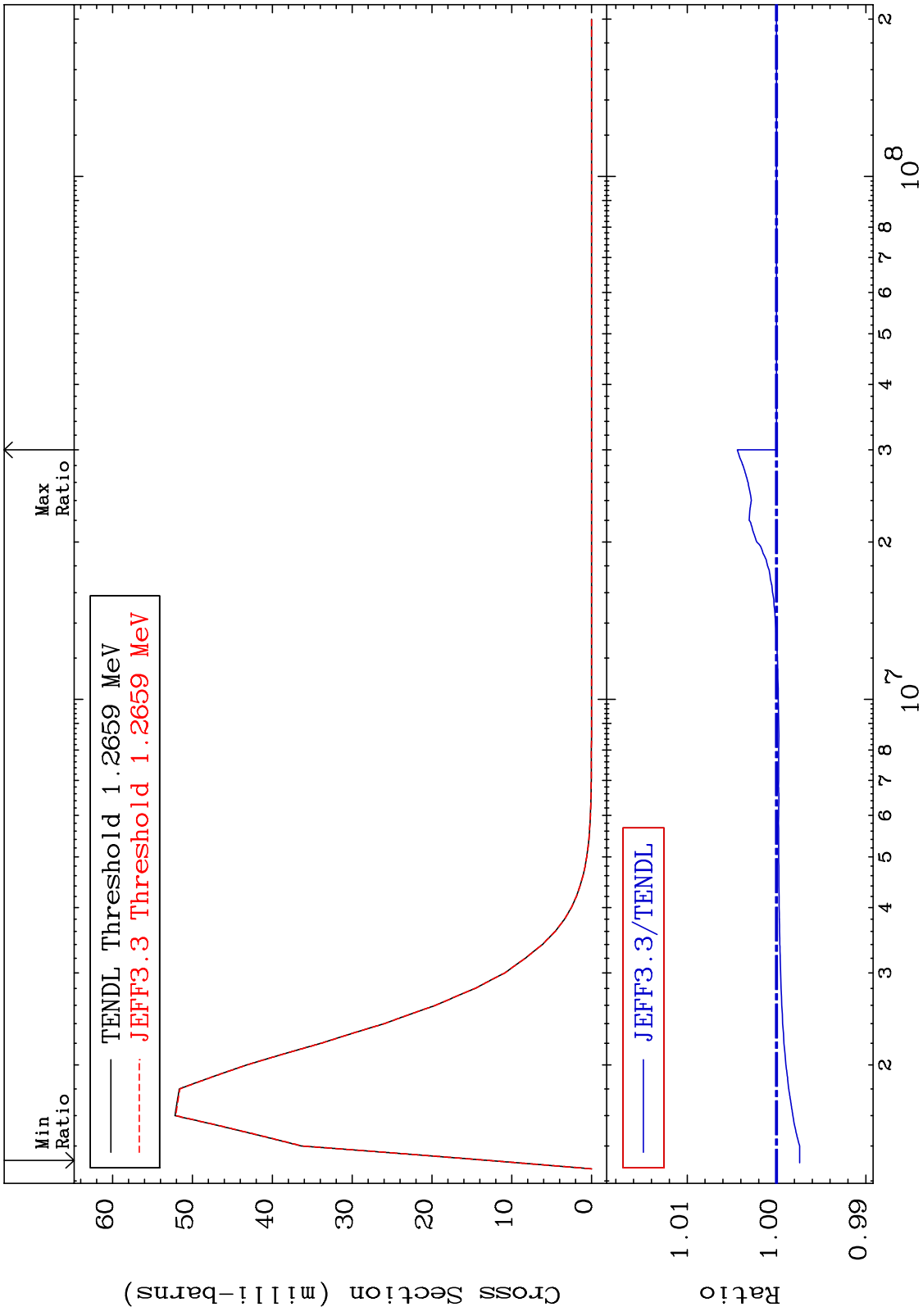
MAT 7031 MT= 58 (n,n') Level Cross Section -0.174 To 0.440 % 70-Yb-170



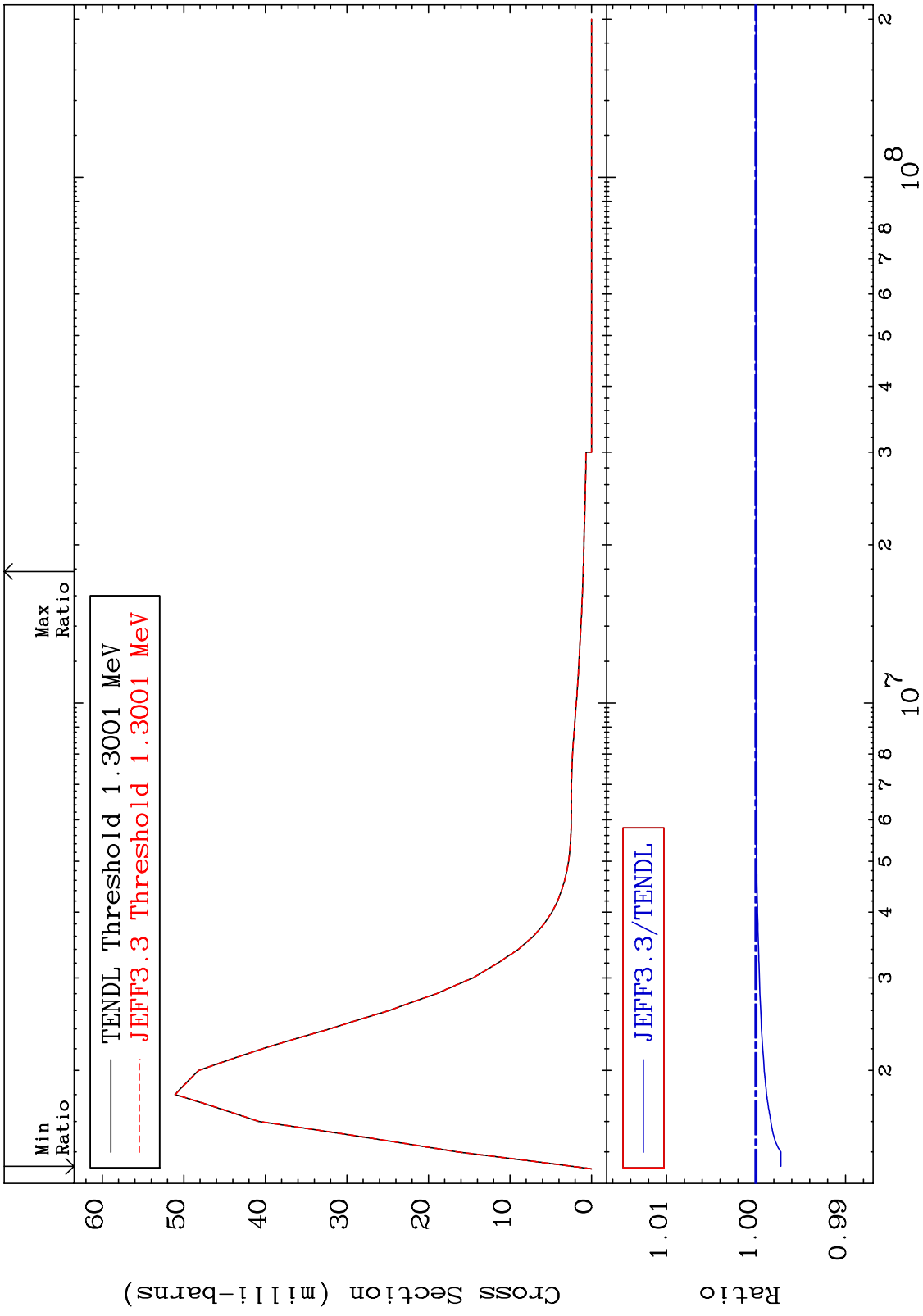
MAT 7031 MT= 59 (n,n') Level Cross Section 70-Yb-170 -0.118 To 0.440 %



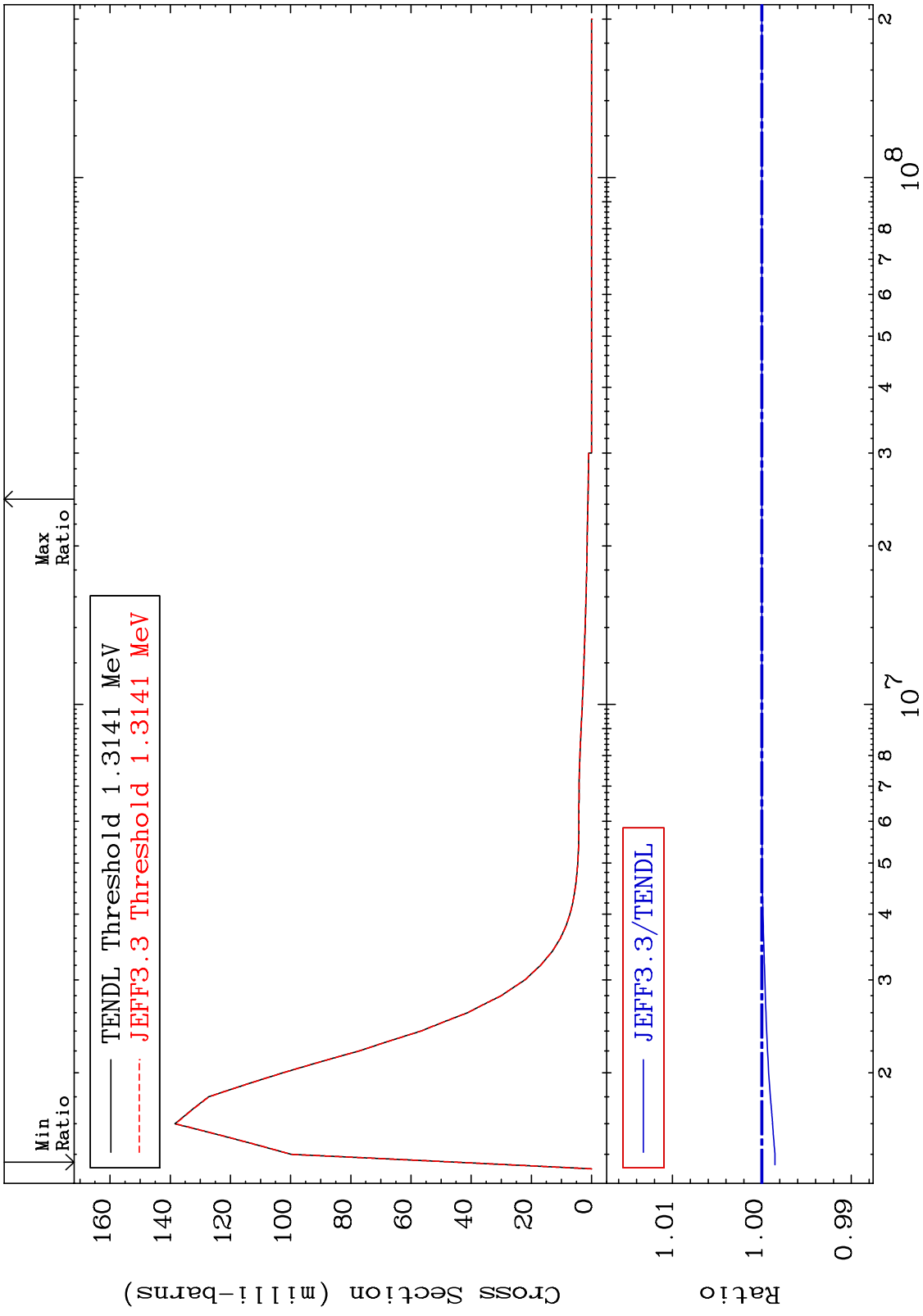
MAT 7031 MT= 60 (n,n') Level Cross Section 70-Yb-170
 -0.259 To 0.440 %



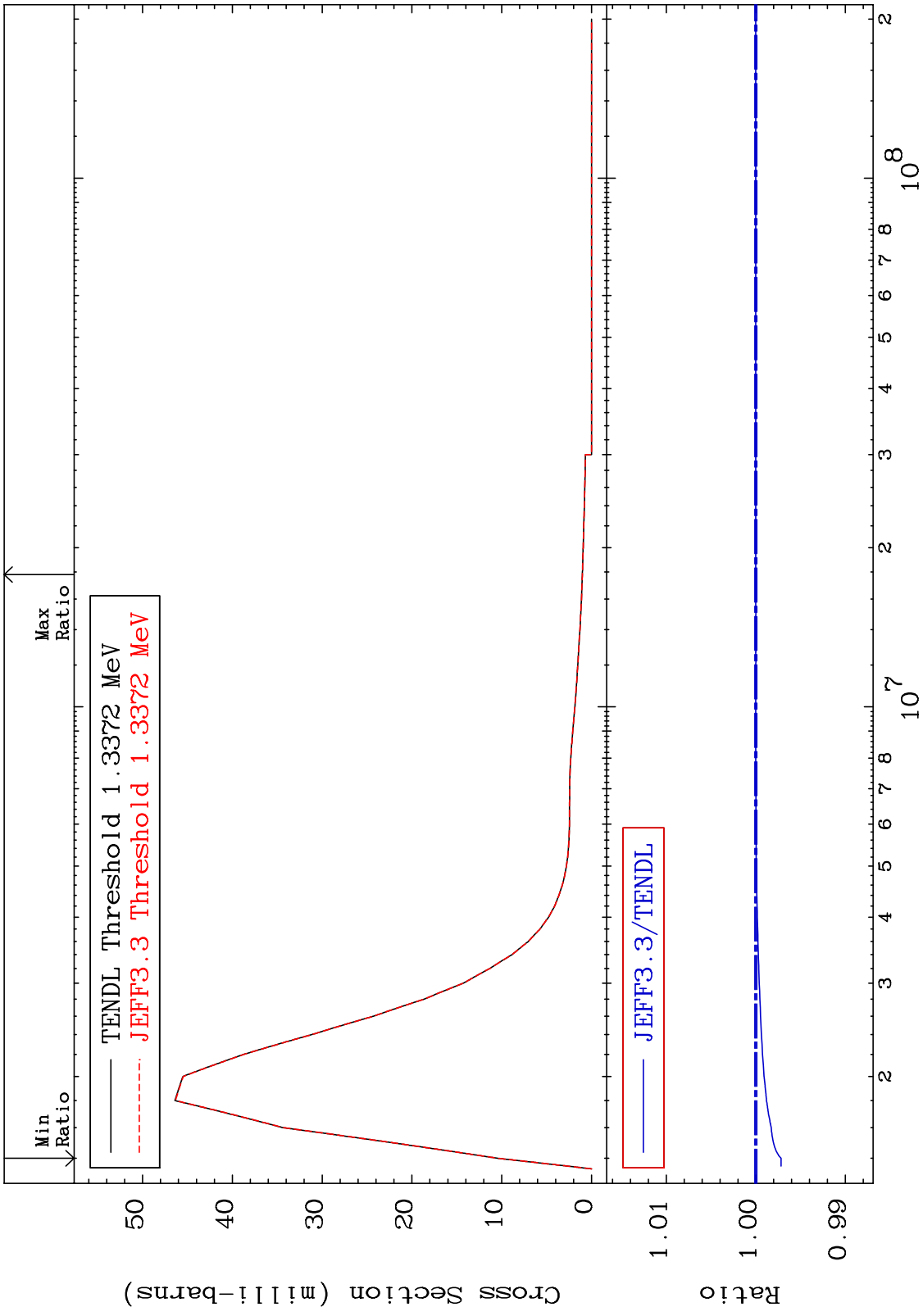
MAT 7031 MT= 61 (n,n') Level Cross Section 70-Yb-170
 -0.279 To 0.000 %



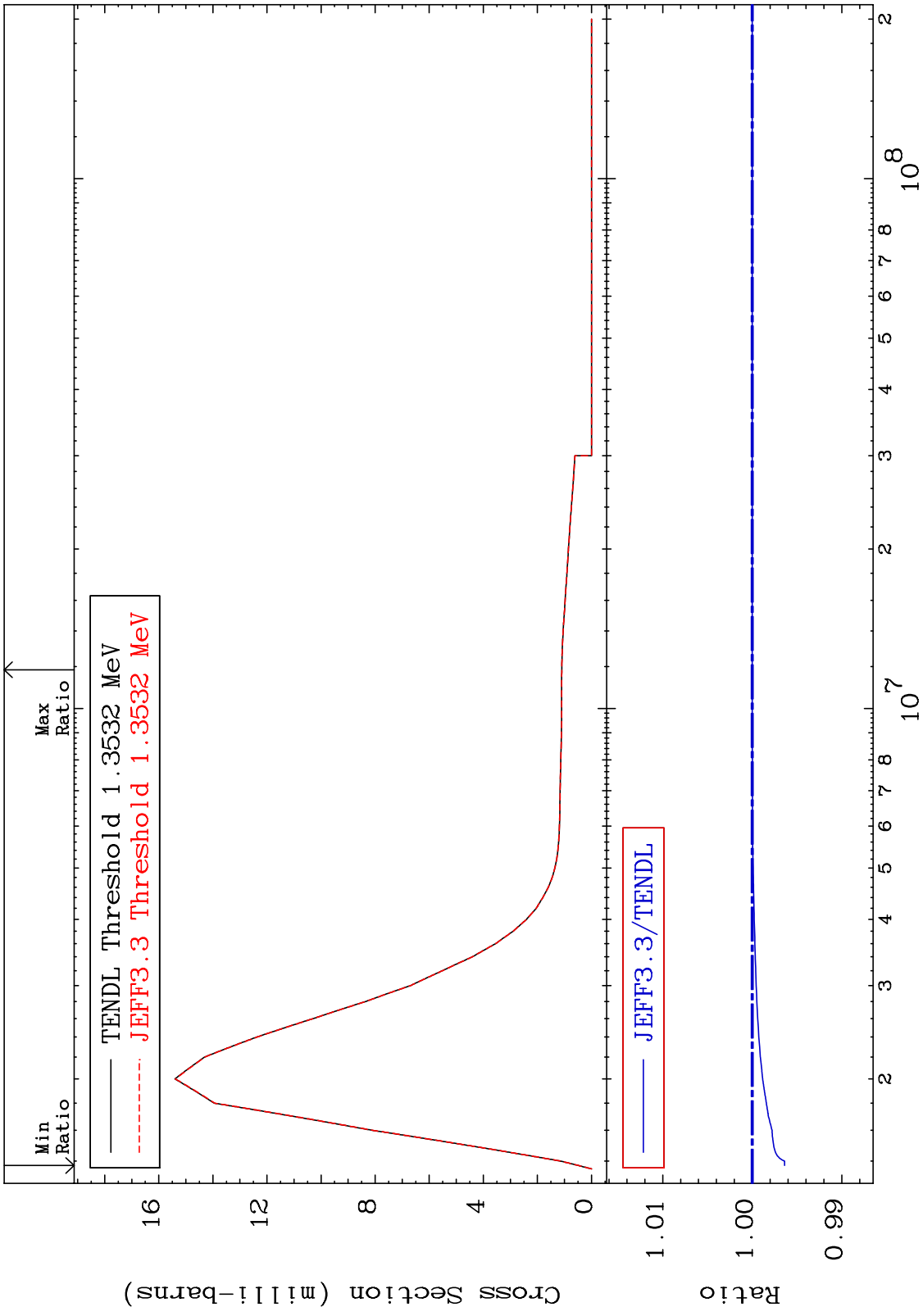
MAT 7031 MT= 62 (n,n') Level Cross Section -0.147 To 0.000 % 70-Yb-170



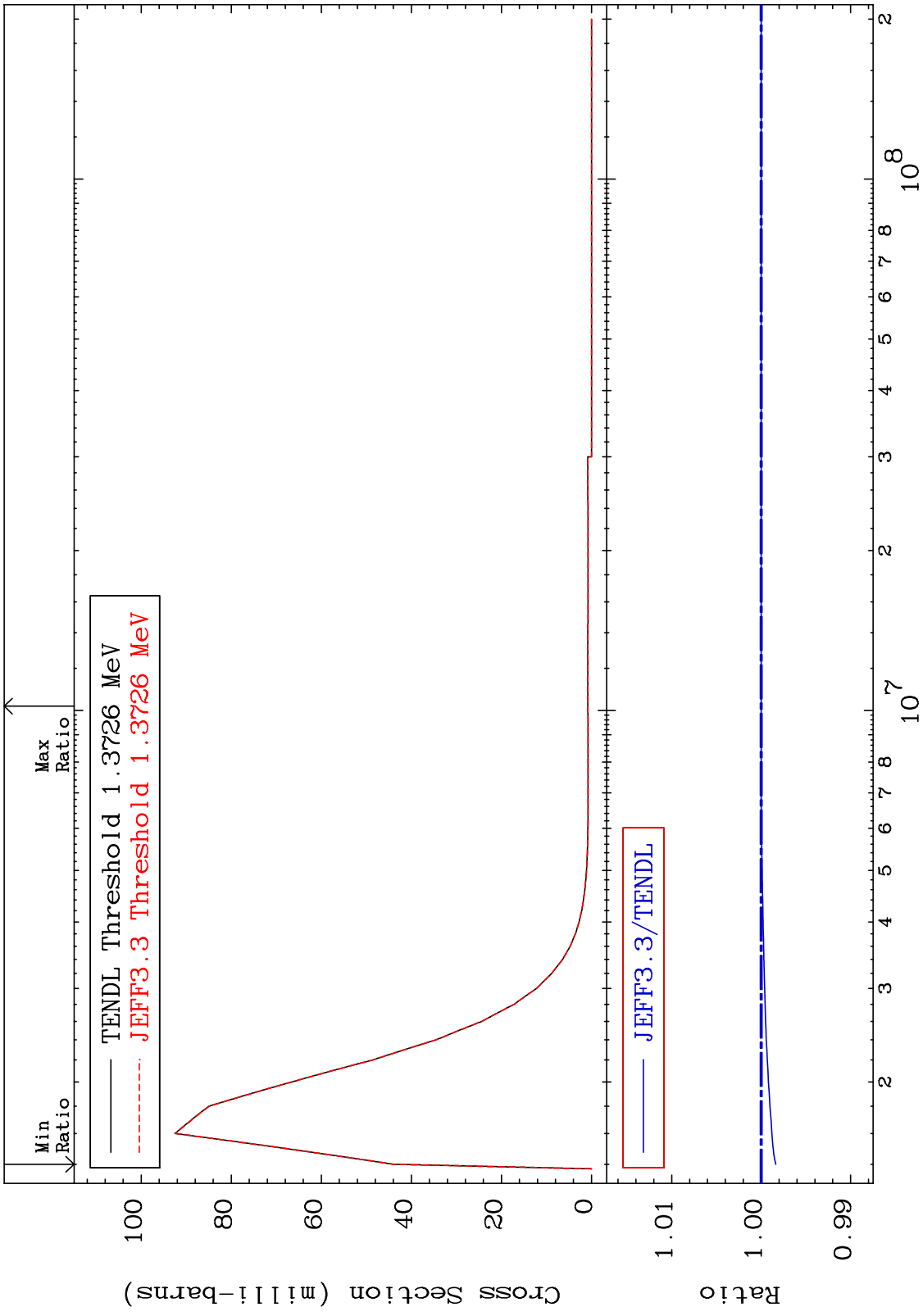
MAT 7031 MT= 63 (n,n') Level Cross Section 70-Yb-170
 -0.282 To 0.000 %



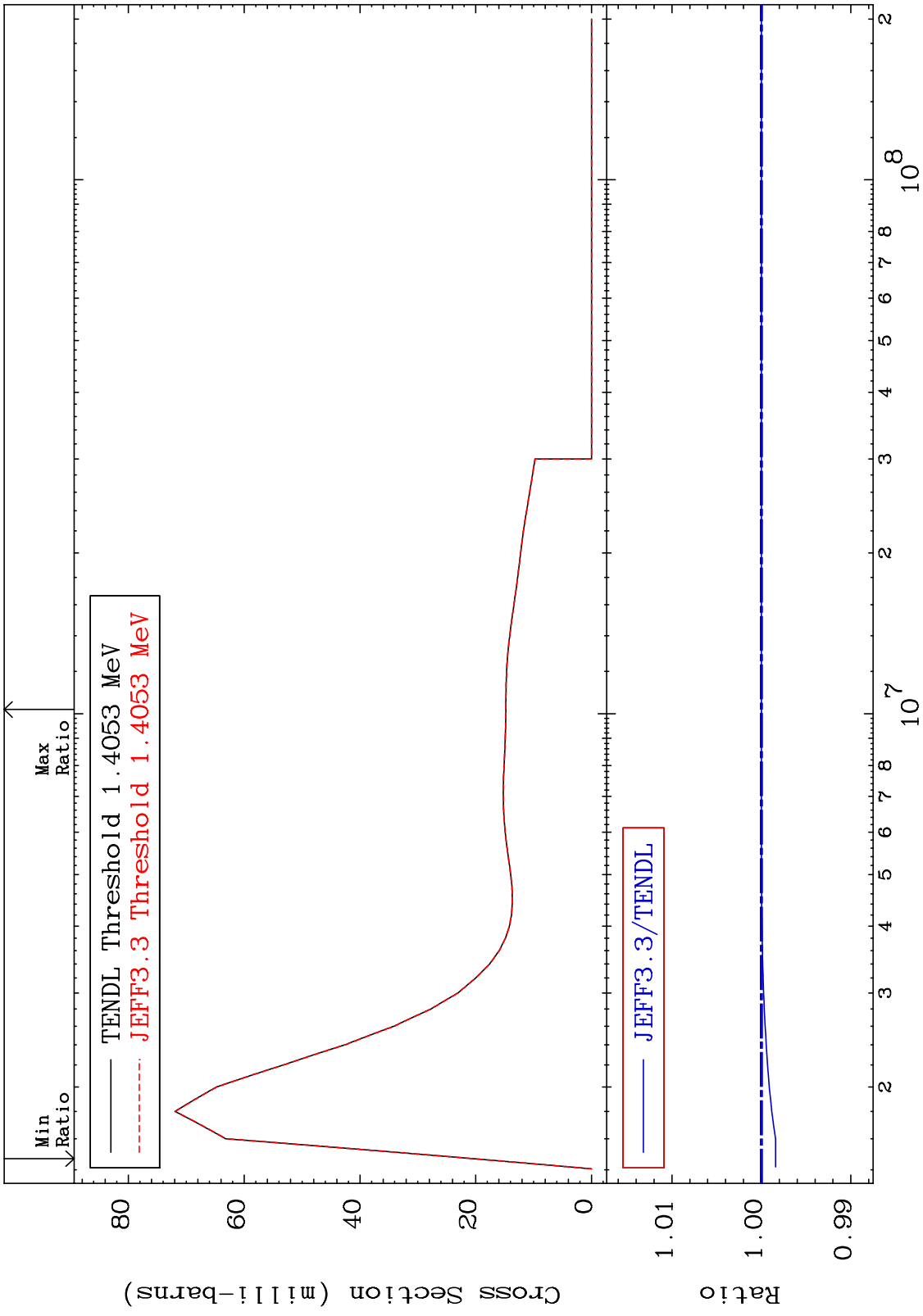
MAT 7031 MT= 64 (n,n') Level Cross Section 70-Yb-170
 -0.361 To 0.000 %



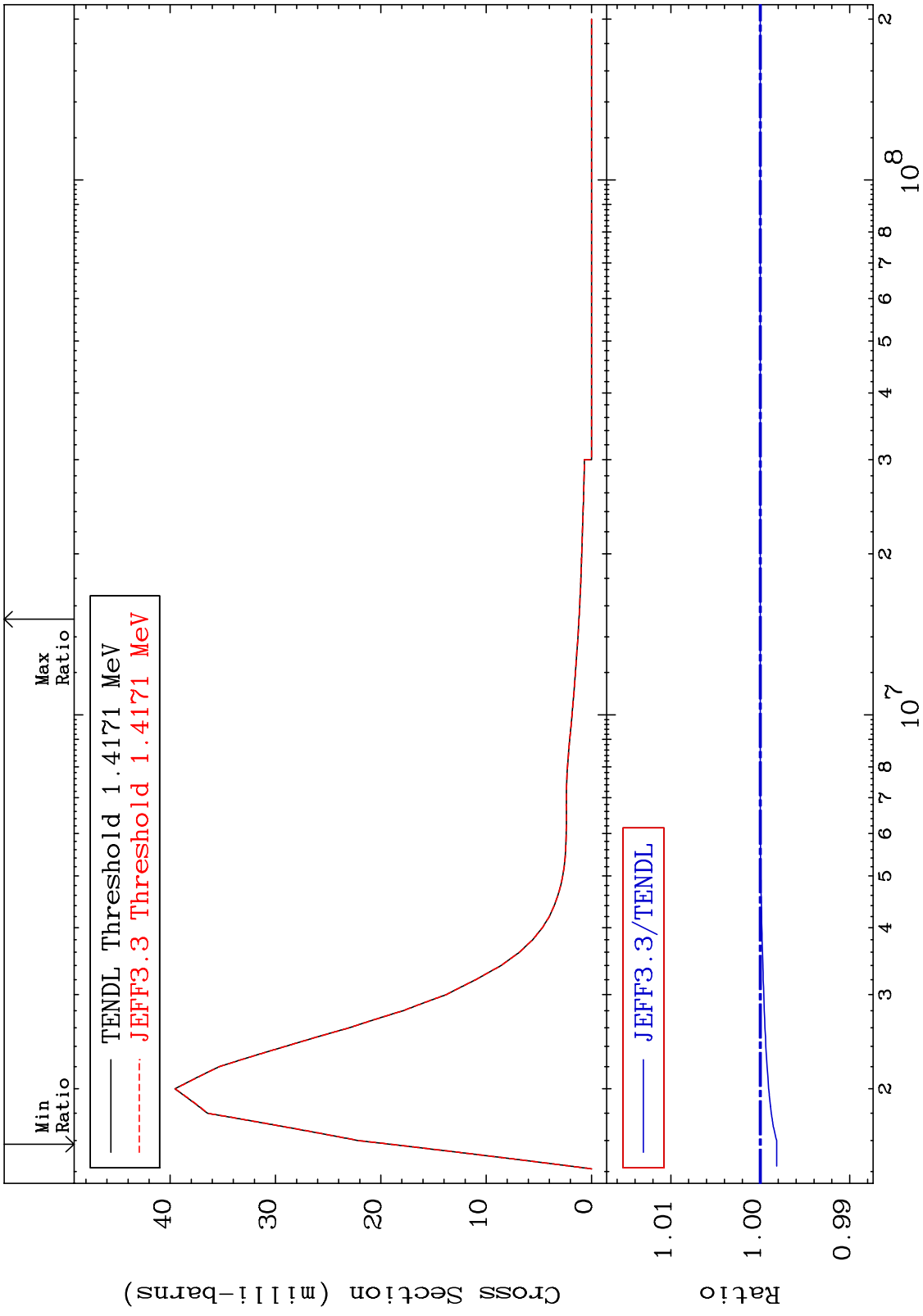
MAT 7031 MT= 65 (n,n') Level Cross Section 70-Yb-170
 -0.163 To 0.000 %



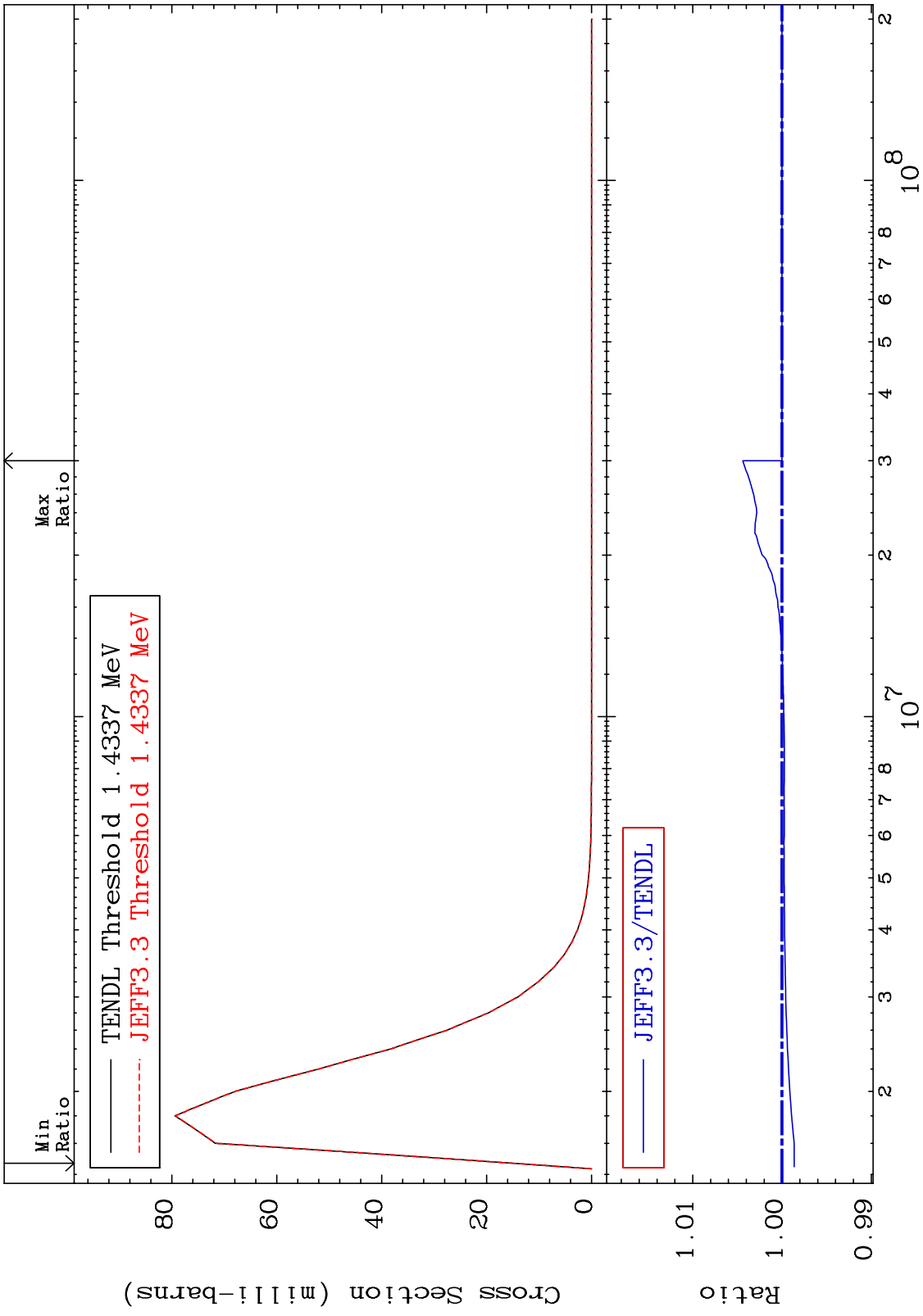
MAT 7031 MT= 66 (n,n') Level Cross Section 70-Yb-170
 -0.158 To 0.000 %



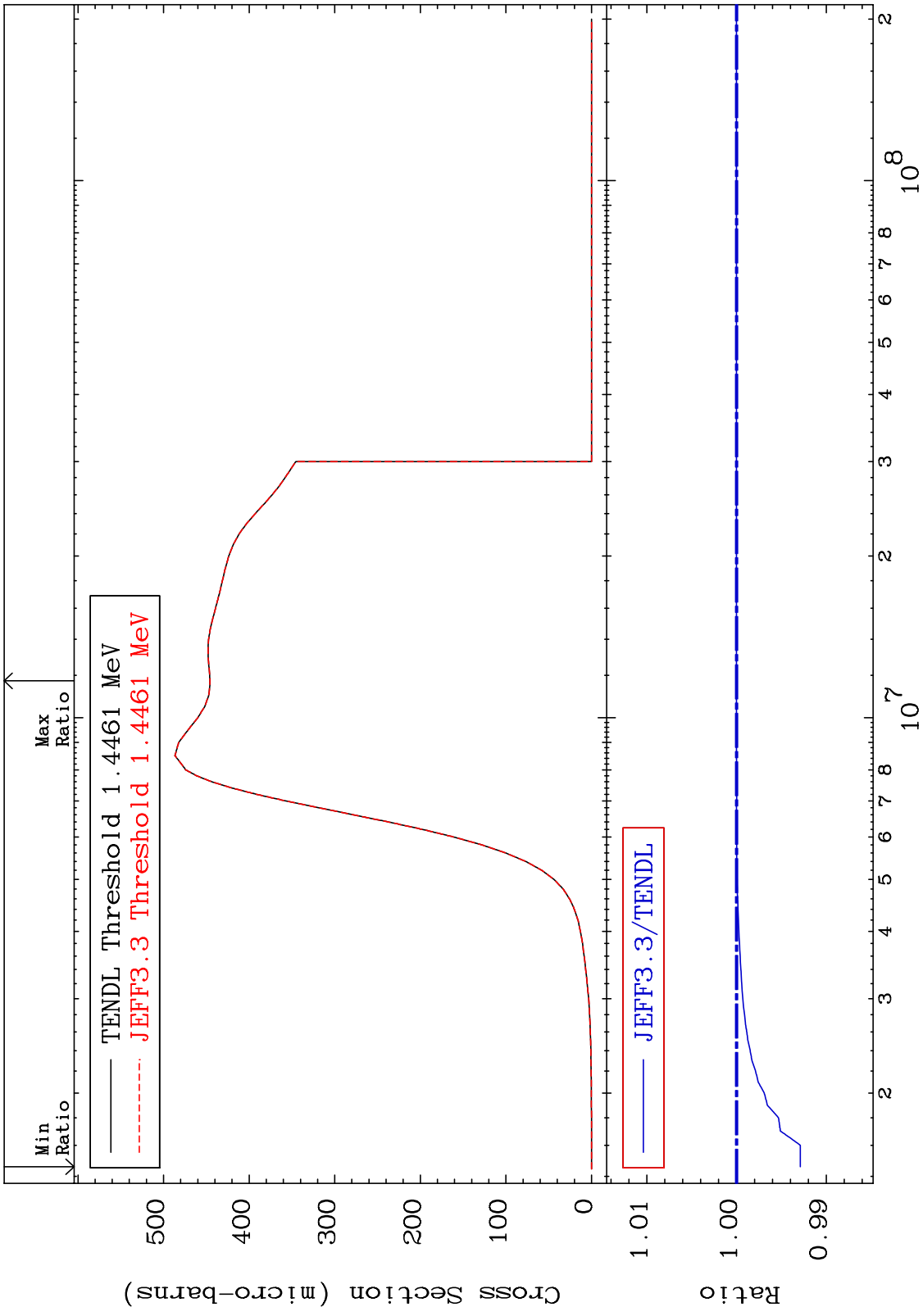
MAT 7031 MT= 67 (n,n') Level Cross Section -0.182 To 0.000 % 70-Yb-170



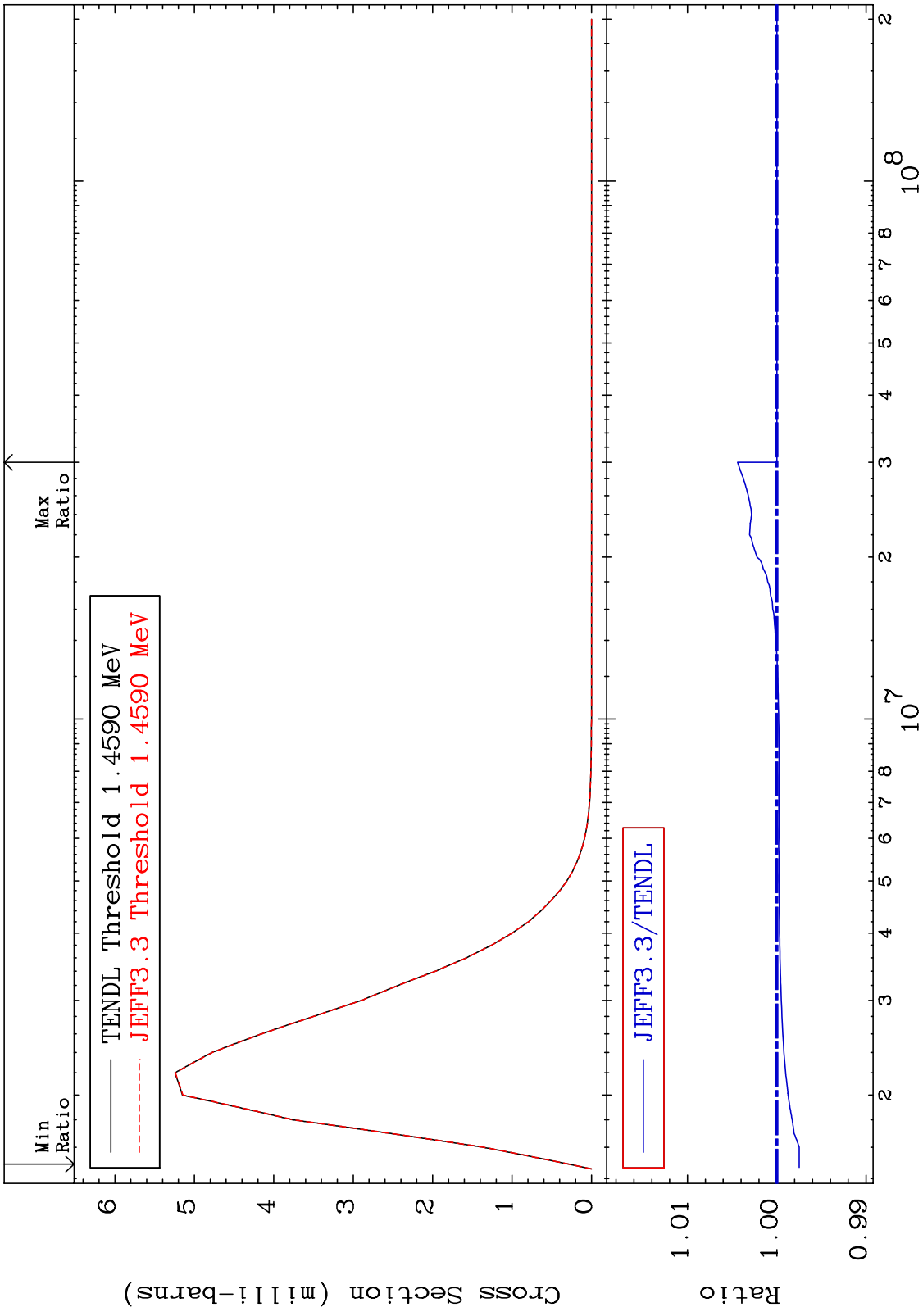
MAT 7031 MT= 68 (n,n') Level Cross Section -0.136 To 0.440 % 70-Yb-170



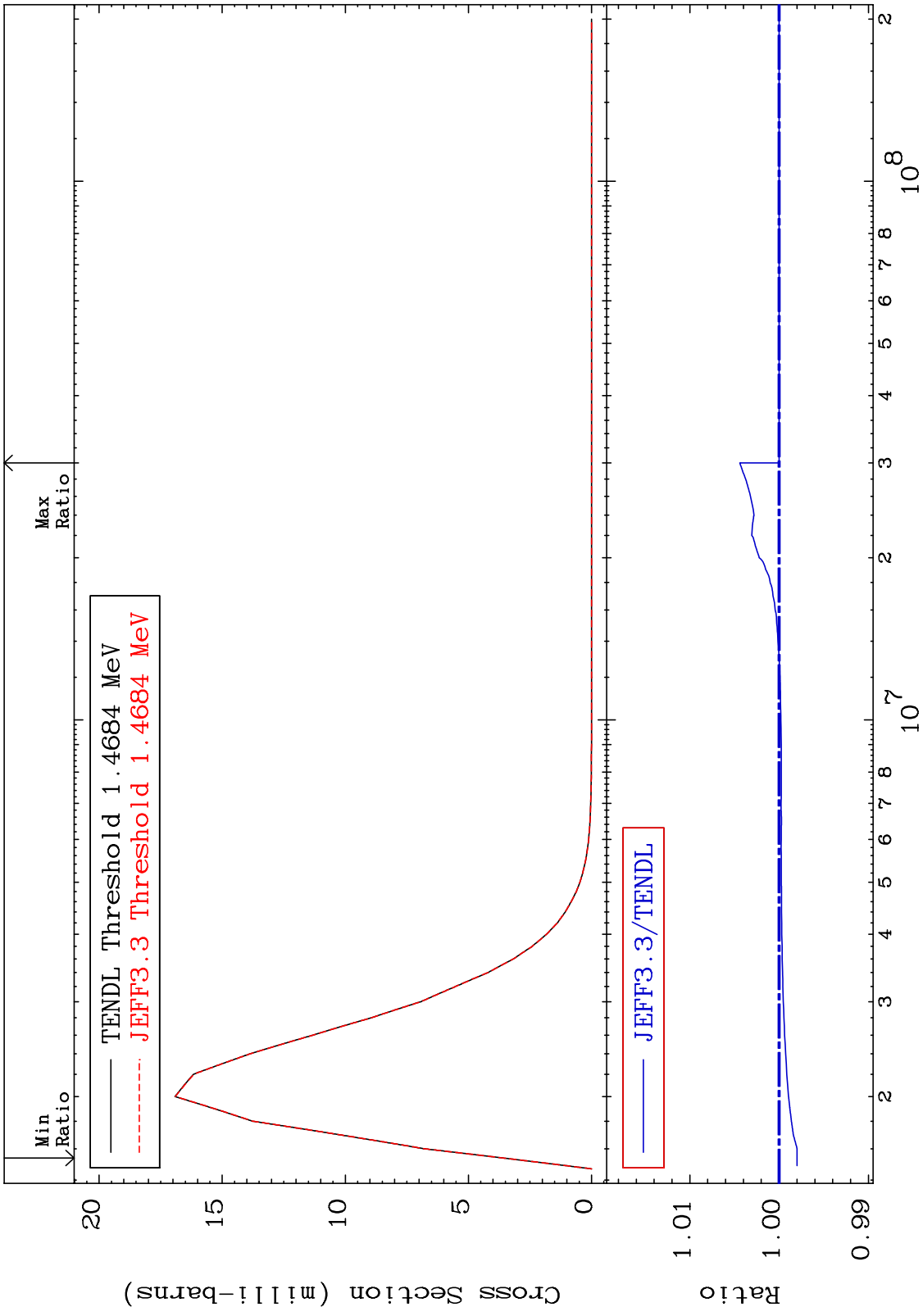
MAT 7031 MT= 69 (n,n') Level Cross Section 70-Yb-170
 -0.711 To 0.000 %



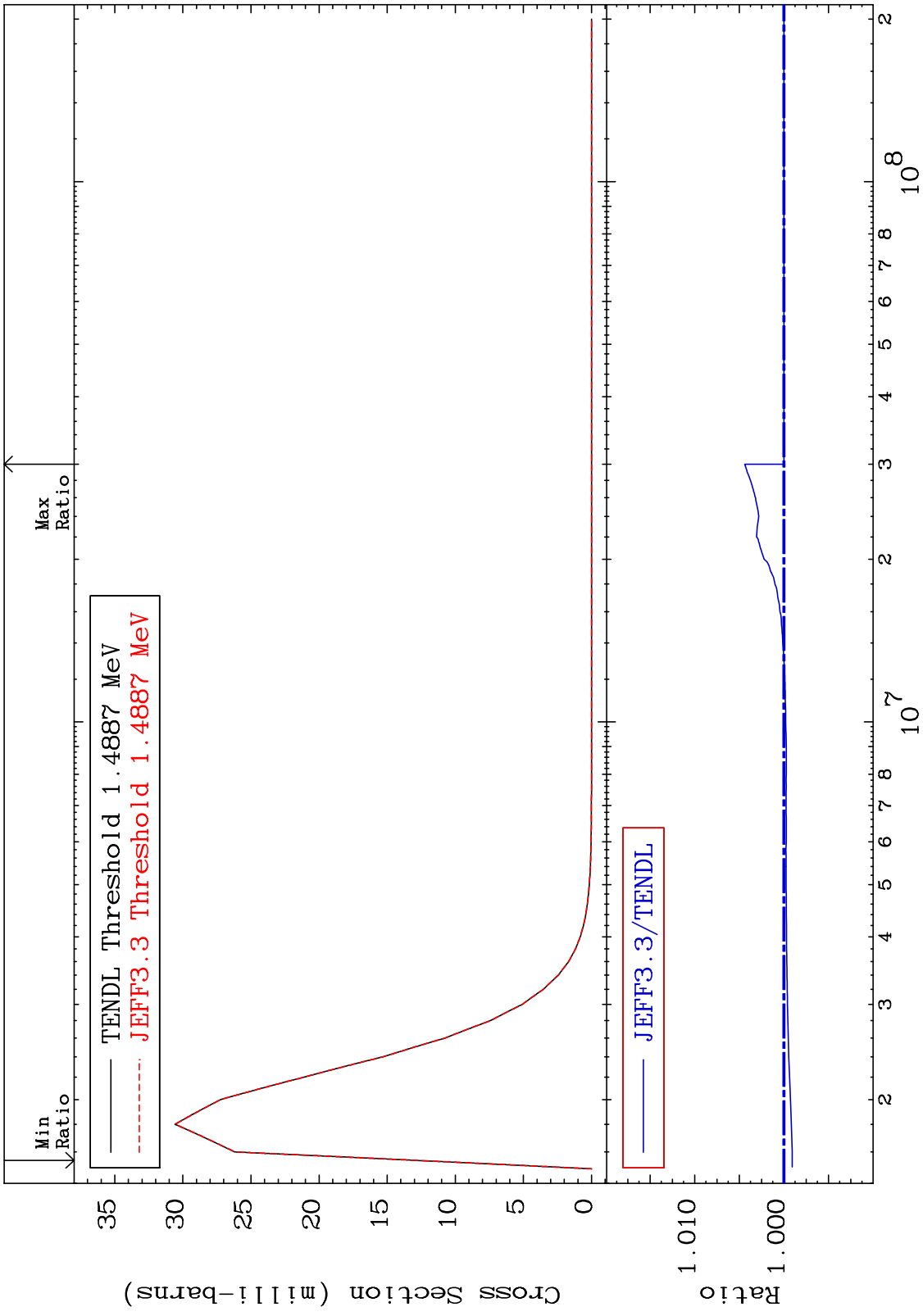
MAT 7031 MT= 70 (n,n') Level Cross Section 70-Yb-170
 -0.251 To 0.439 %



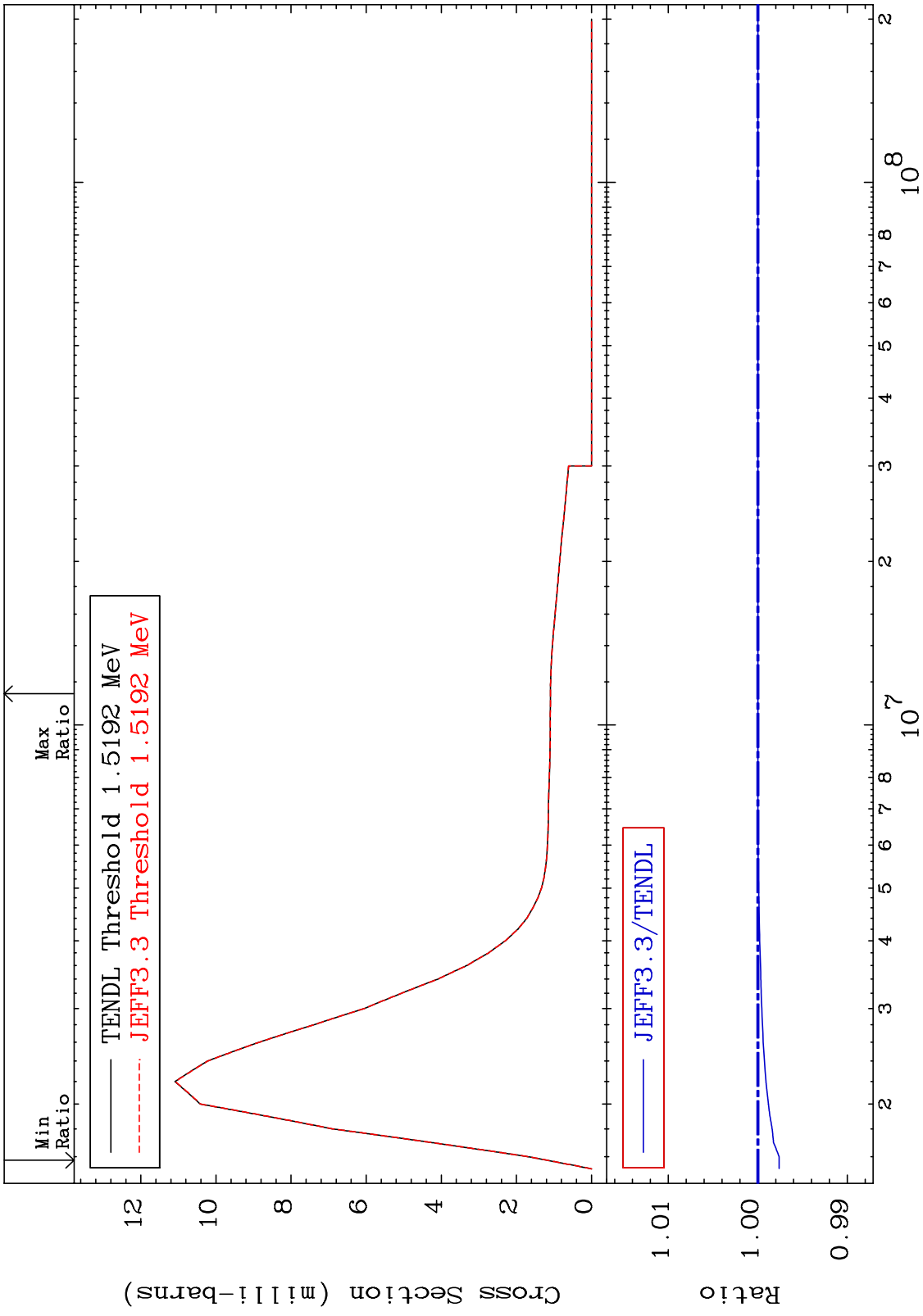
MAT 7031 MT= 71 (n,n') Level Cross Section 70-Yb-170
 -0.201 To 0.440 %



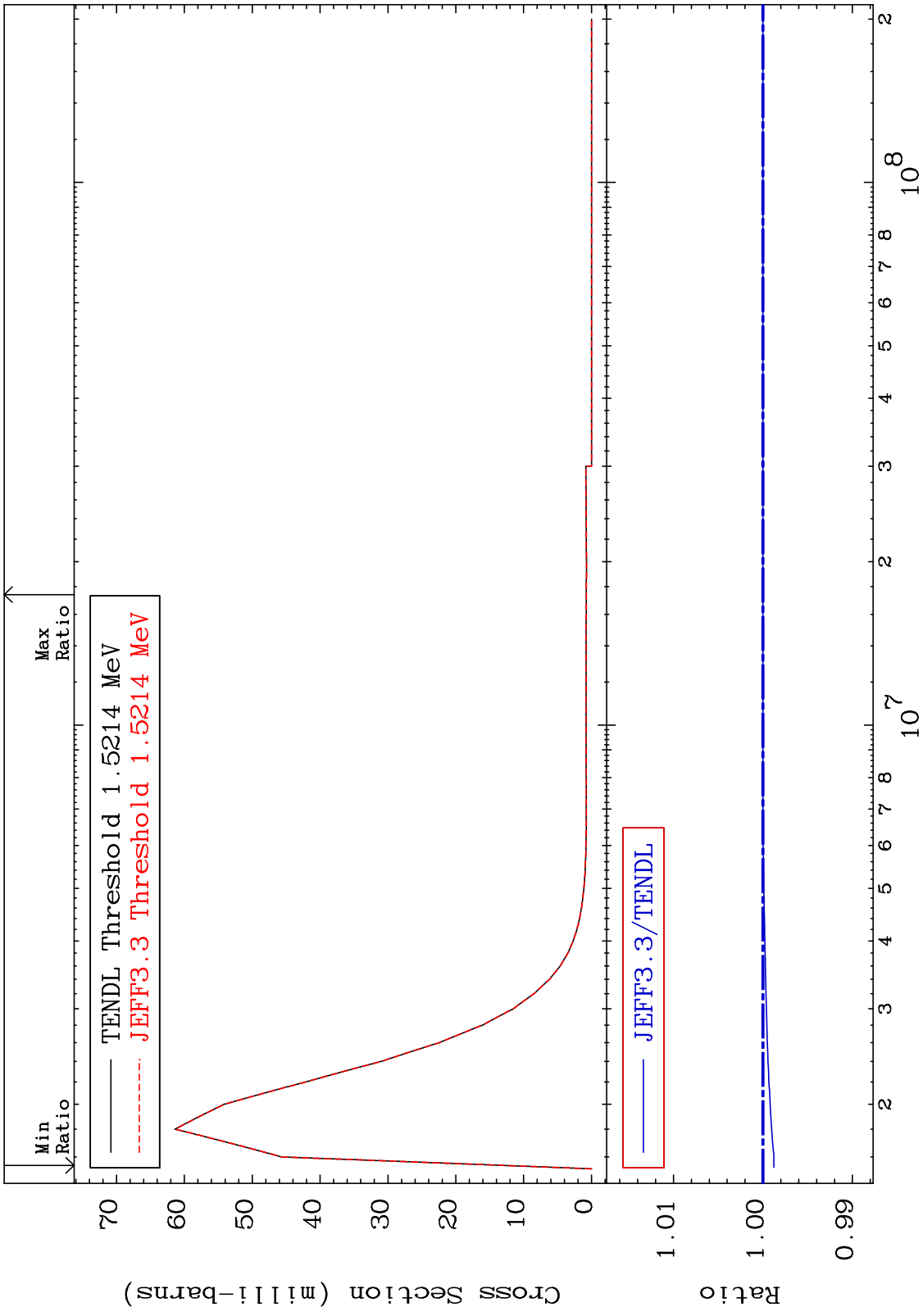
MAT 7031 MT= 72 (n,n') Level Cross Section 70-Yb-170
 -0.092 To 0.440 %

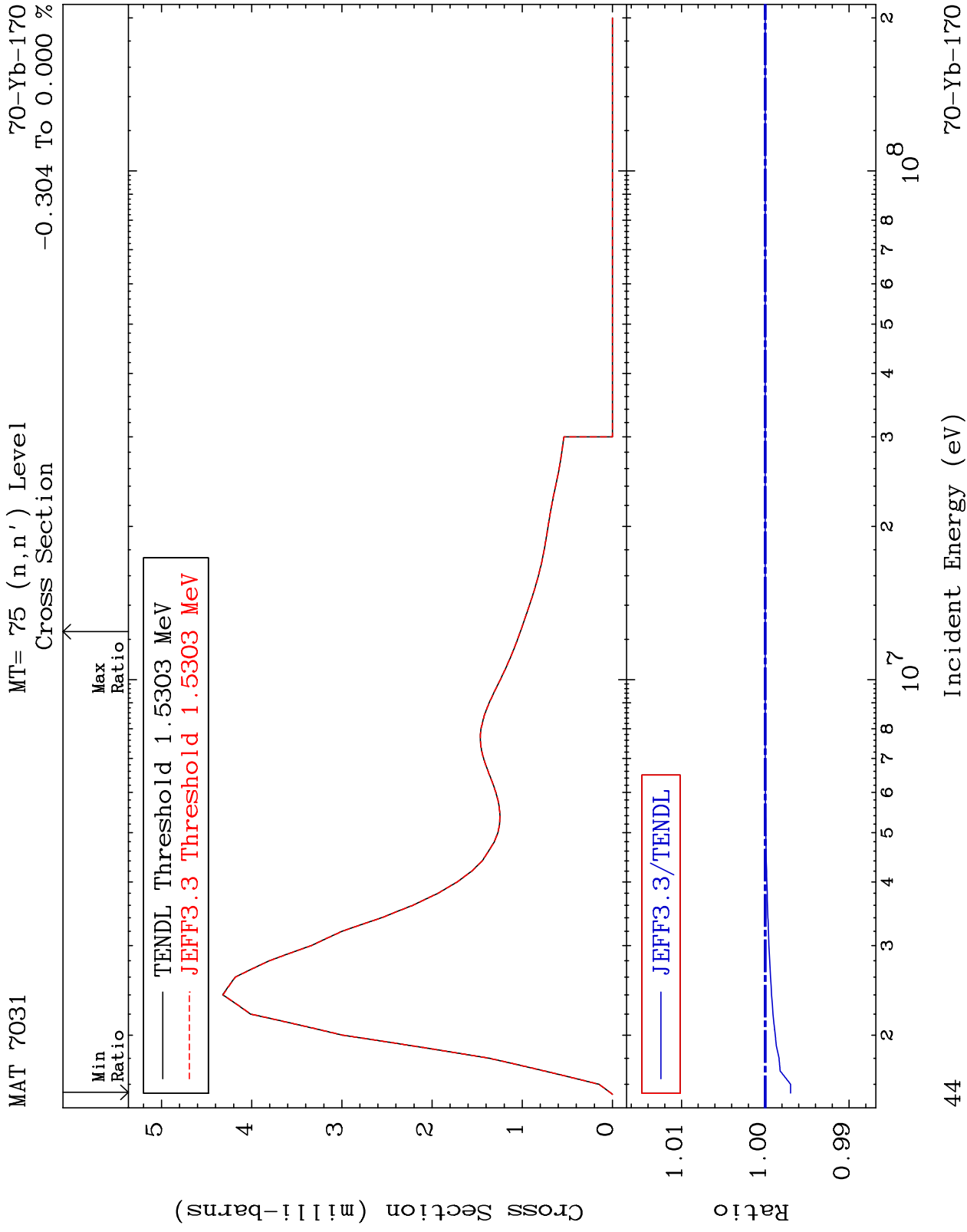


MAT 7031 MT= 73 (n,n') Level Cross Section 70-Yb-170 -0.237 To 0.000 %

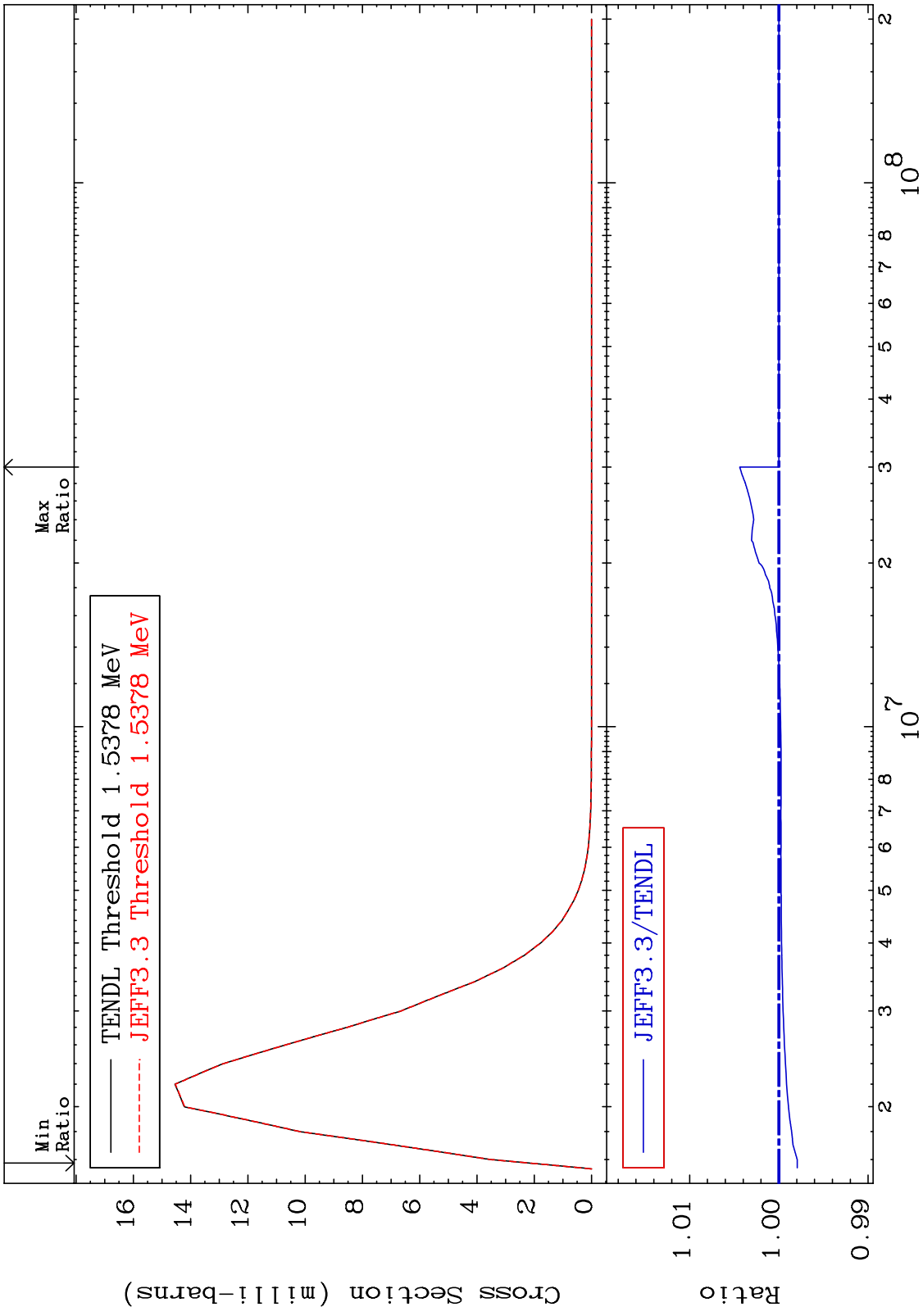


MAT 7031 MT= 74 (n,n') Level Cross Section 70-Yb-170 -0.123 To 0.000 %





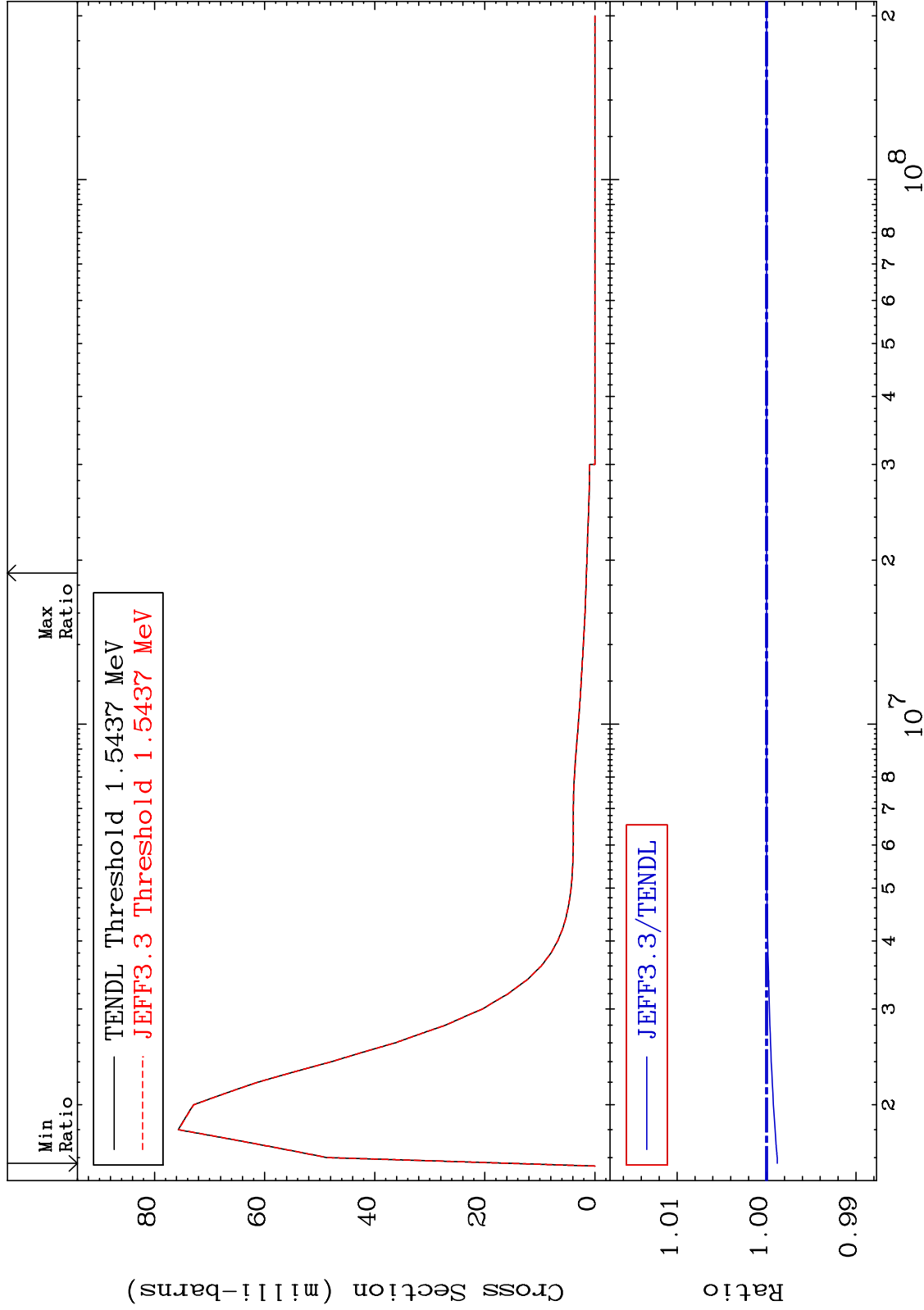
MAT 7031 MT= 76 (n,n') Level Cross Section 70-Yb-170
 -0.205 To 0.439 %



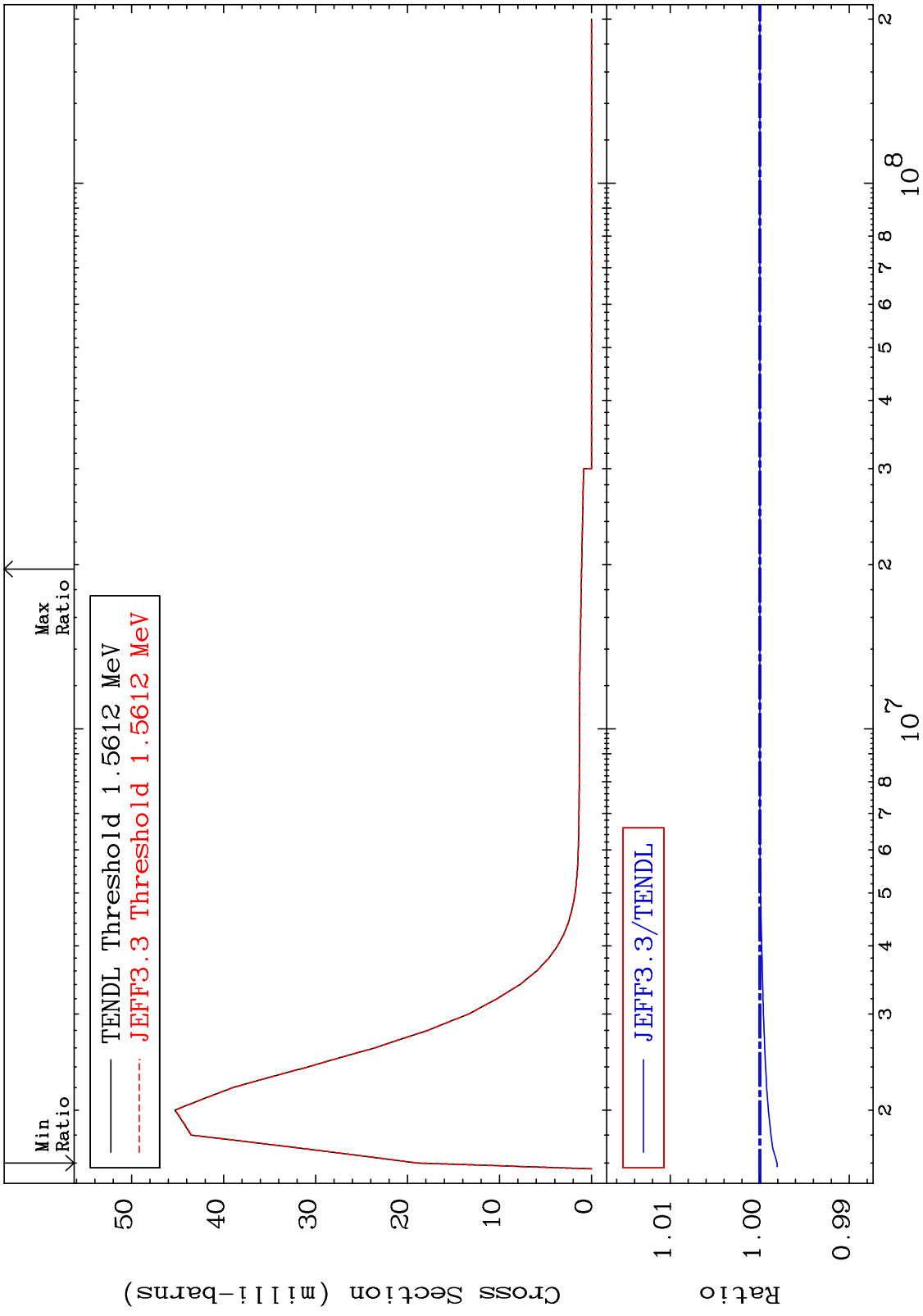
MAT 7031

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

70-Yb-170
-0.119 To 0.000 %



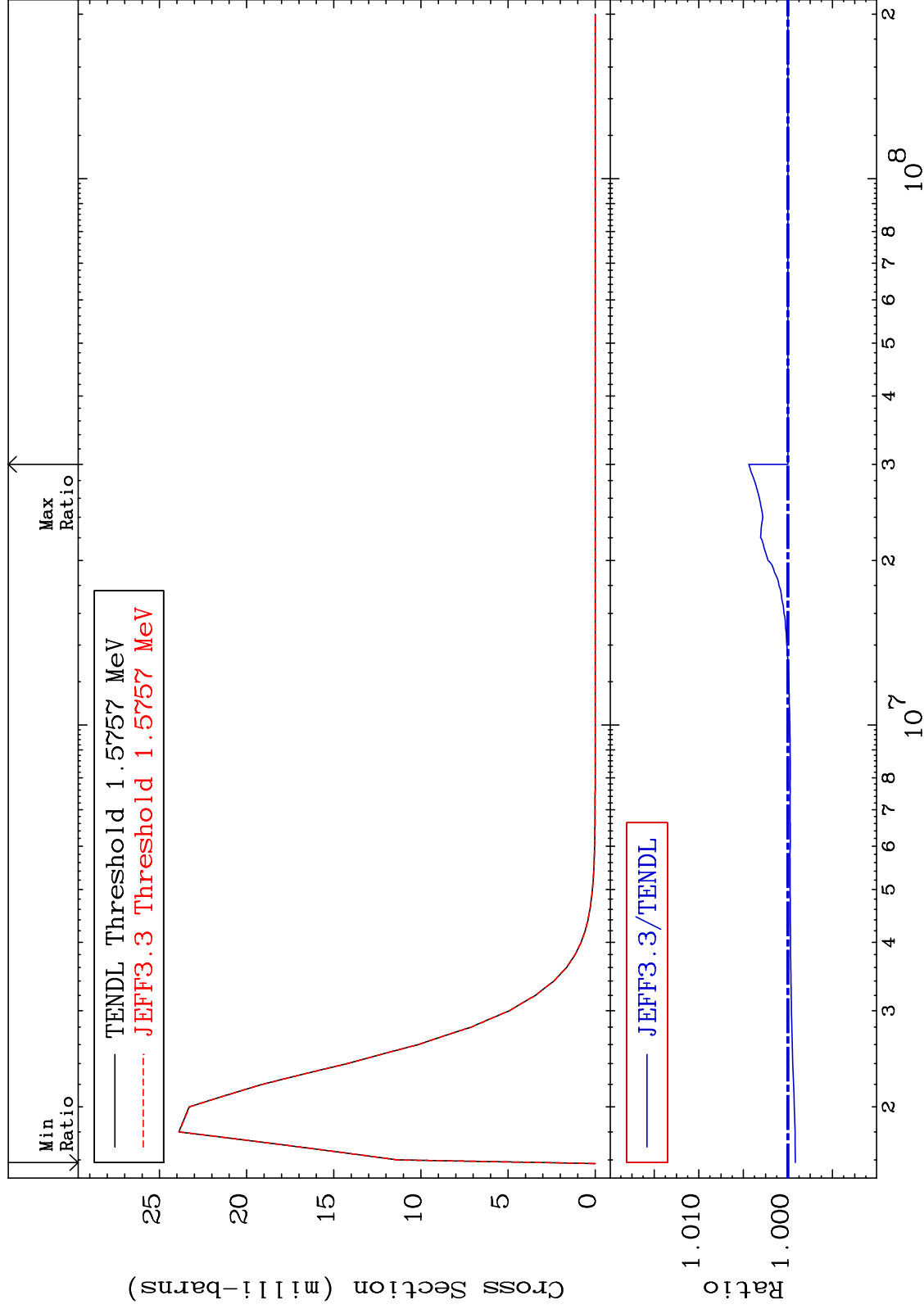
MAT 7031 MT= 78 (n,n') Level Cross Section 70-Yb-170
 -0.193 To 0.000 %



MAT 7031

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

70-Yb-170
-0.083 To 0.440 %

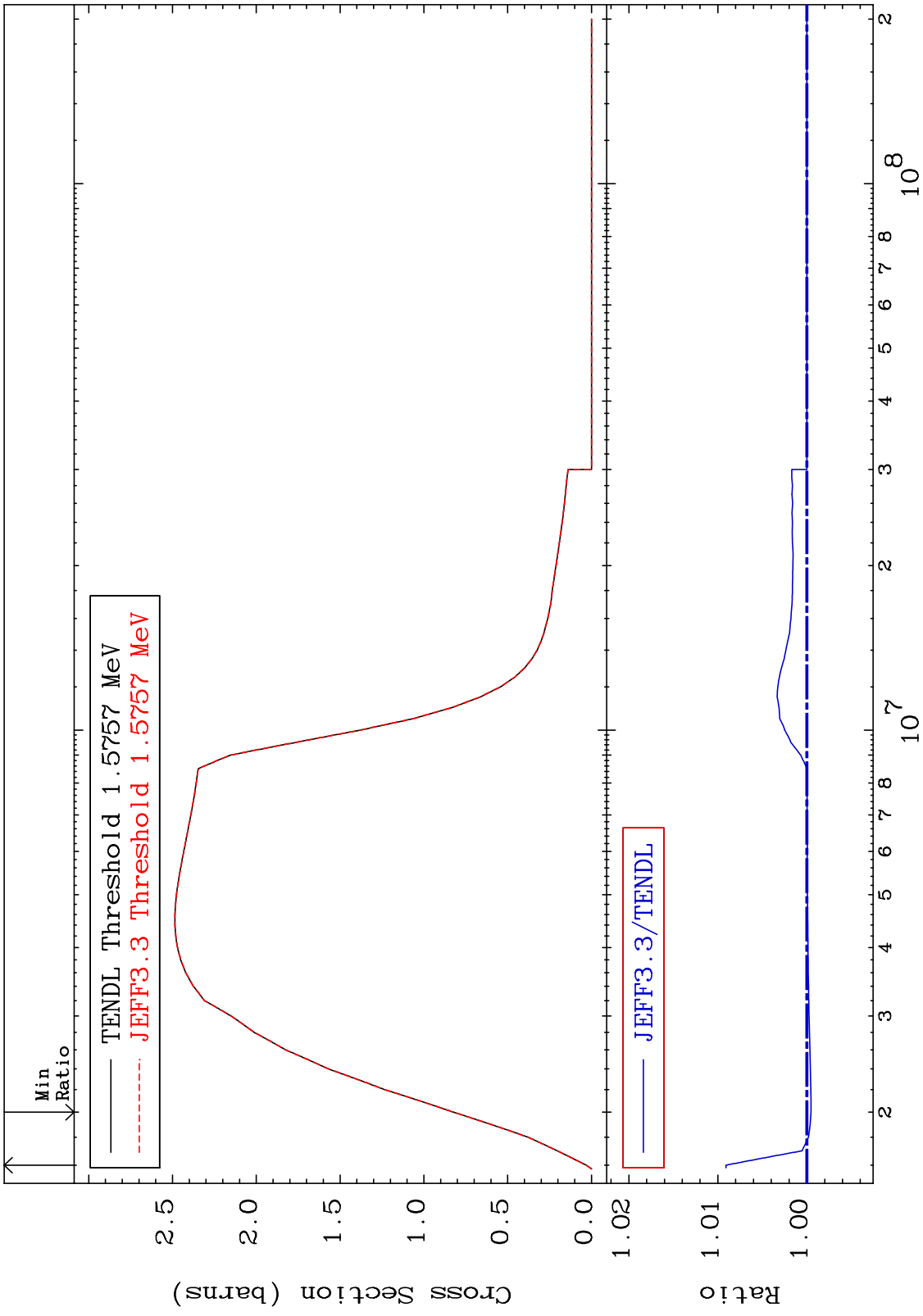


48

Incident Energy (eV)

70-Yb-170

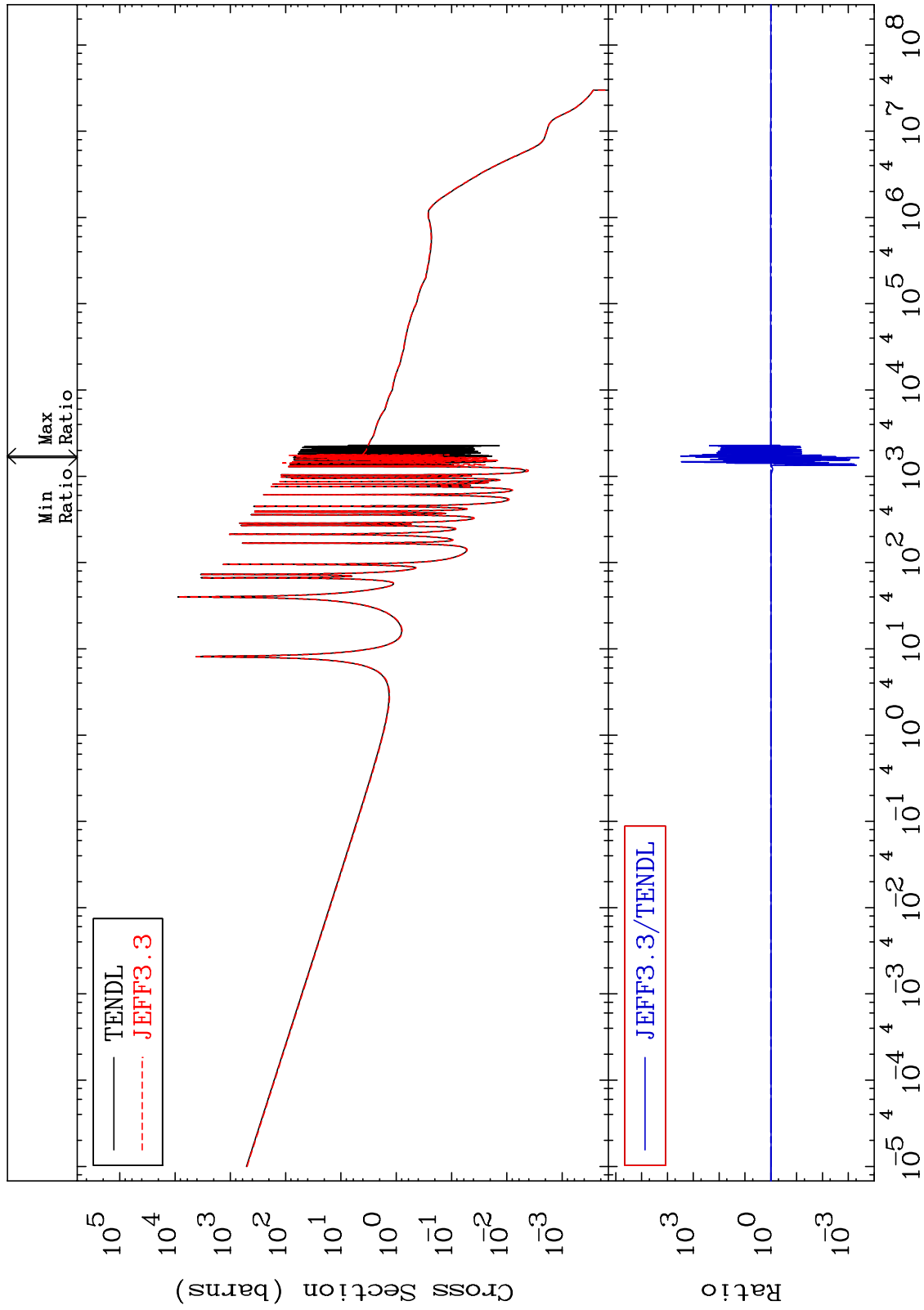
MAT 7031 (n, n') Continuum Cross Section 70-Yb-170 -0.046 To 0.909 %



MAT 7031

(n, γ)
Cross Section

70-Yb-170
-99.96 To 9999. %



50

Incident Energy (eV)

70-Yb-170

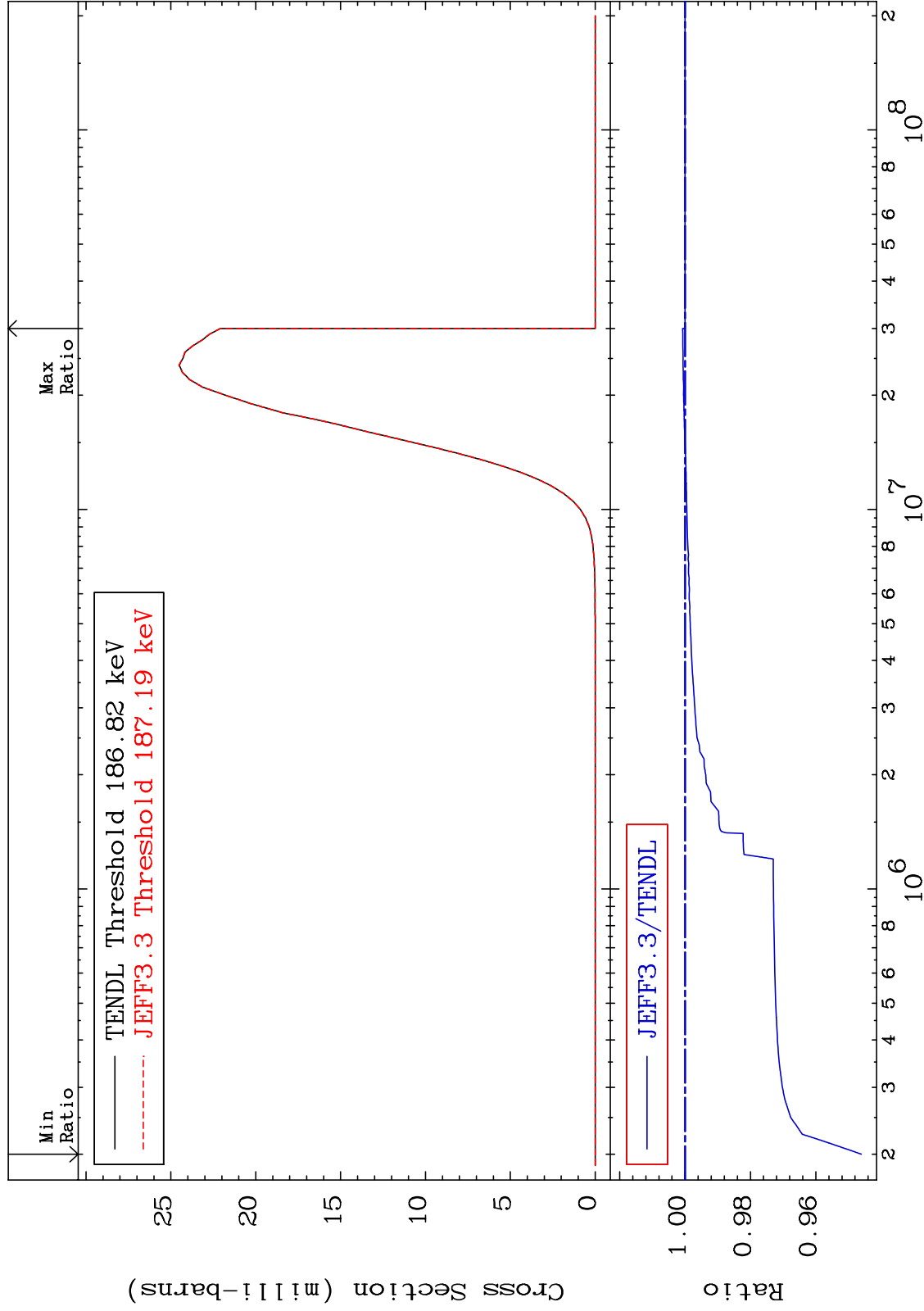
MAT 7031

(n,p)

70-Yb-170

Cross Section

-5.393 To 0.073 %

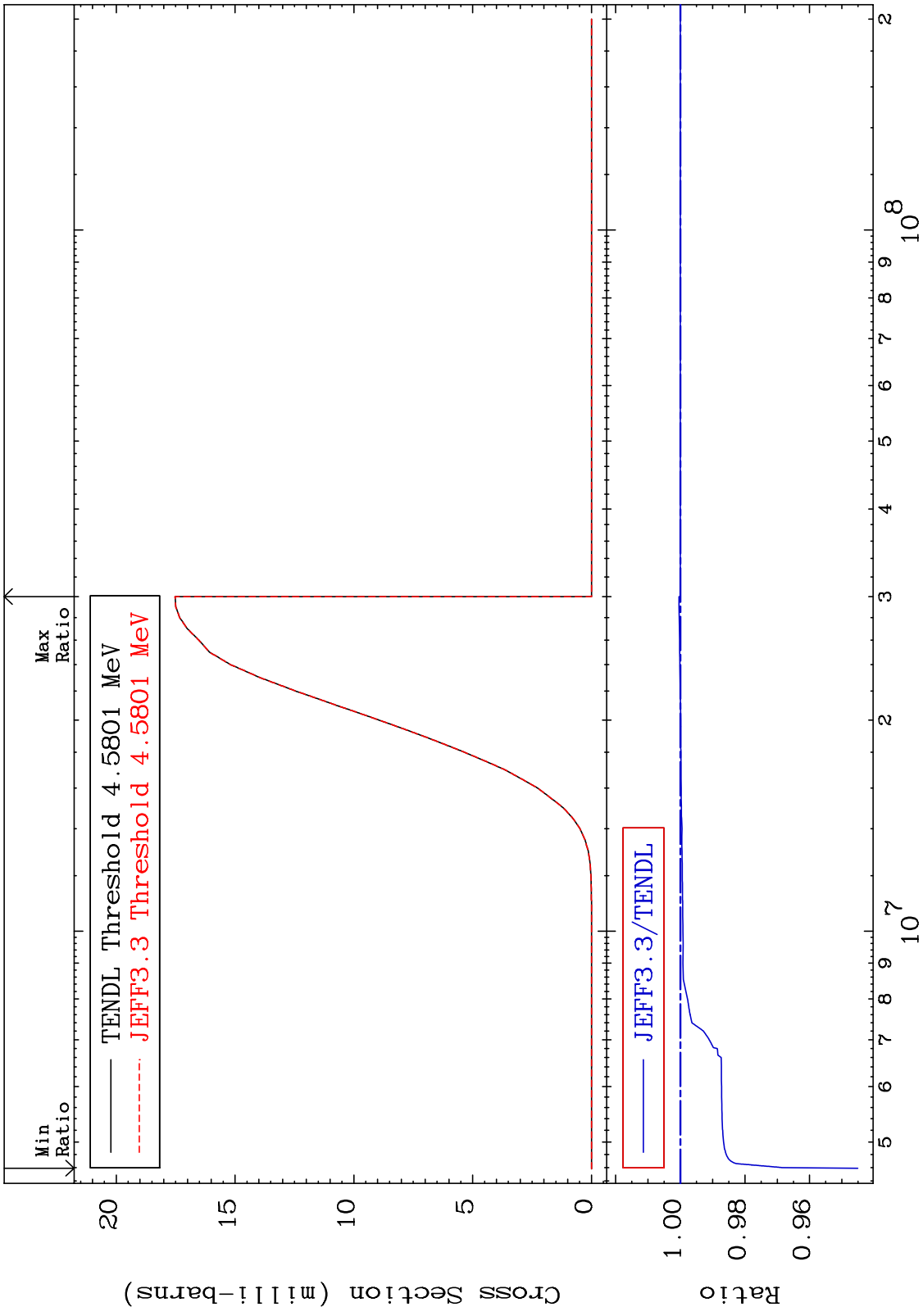


51

Incident Energy (eV)

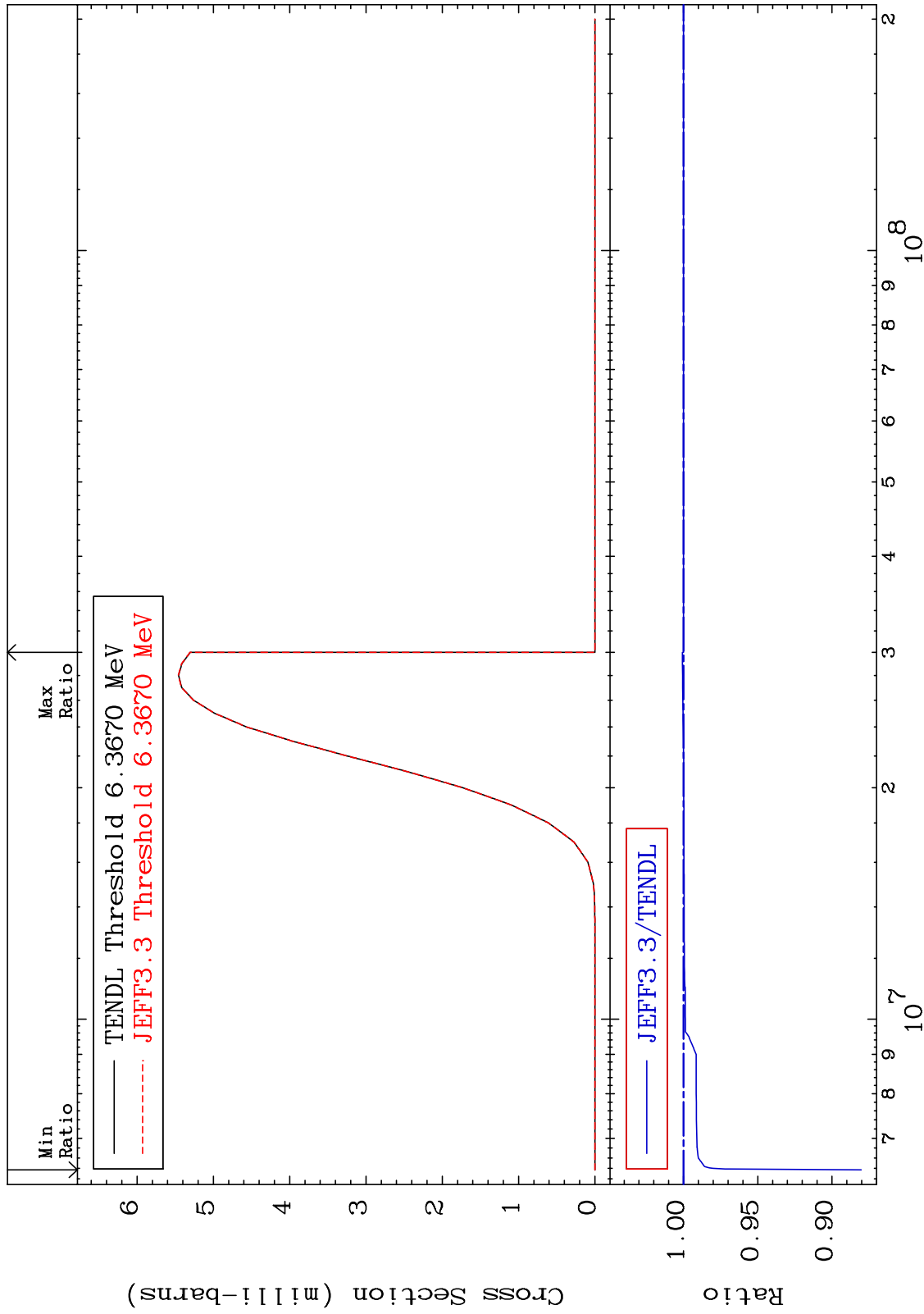
70-Yb-170

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

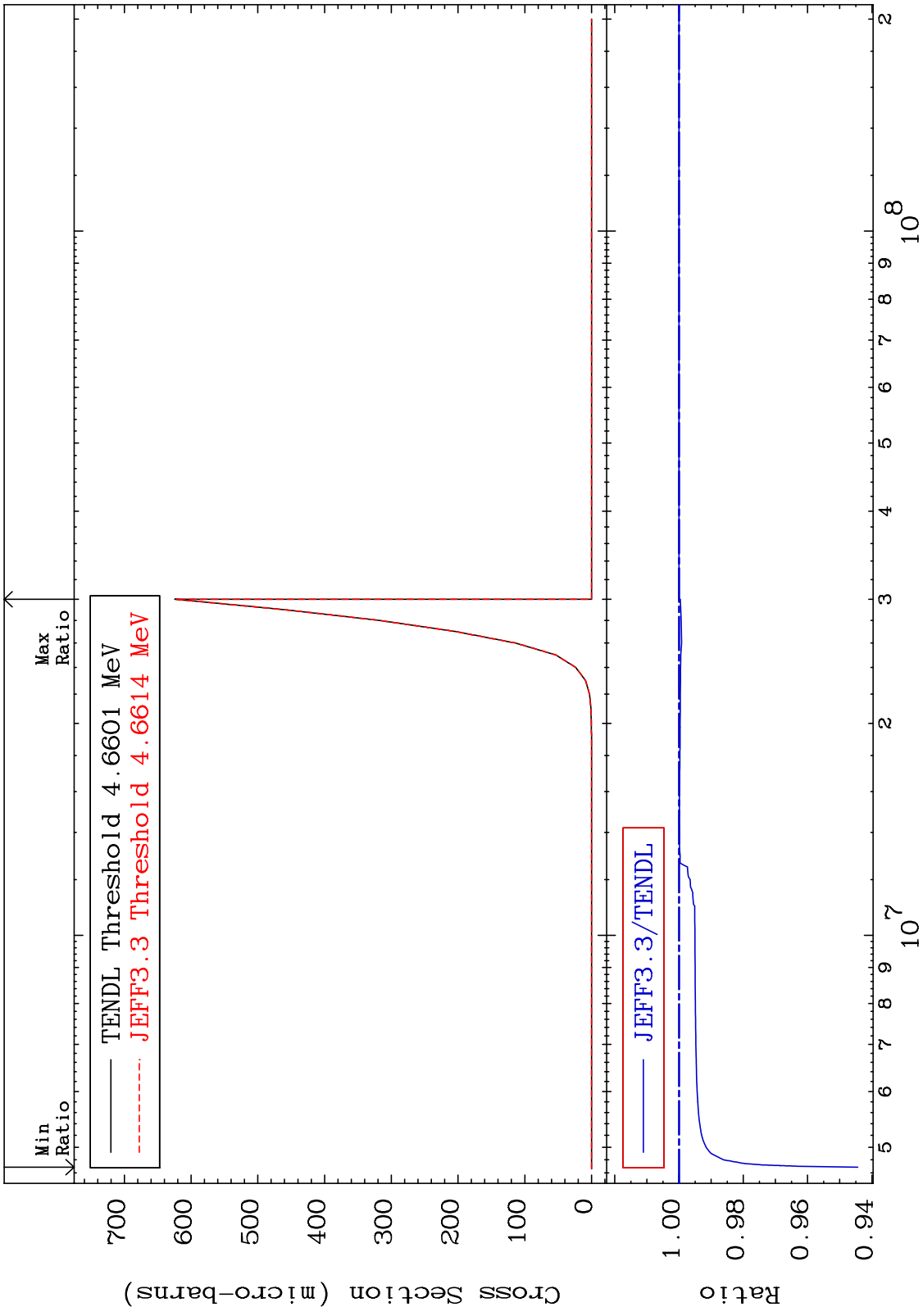


MAT 7031

(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

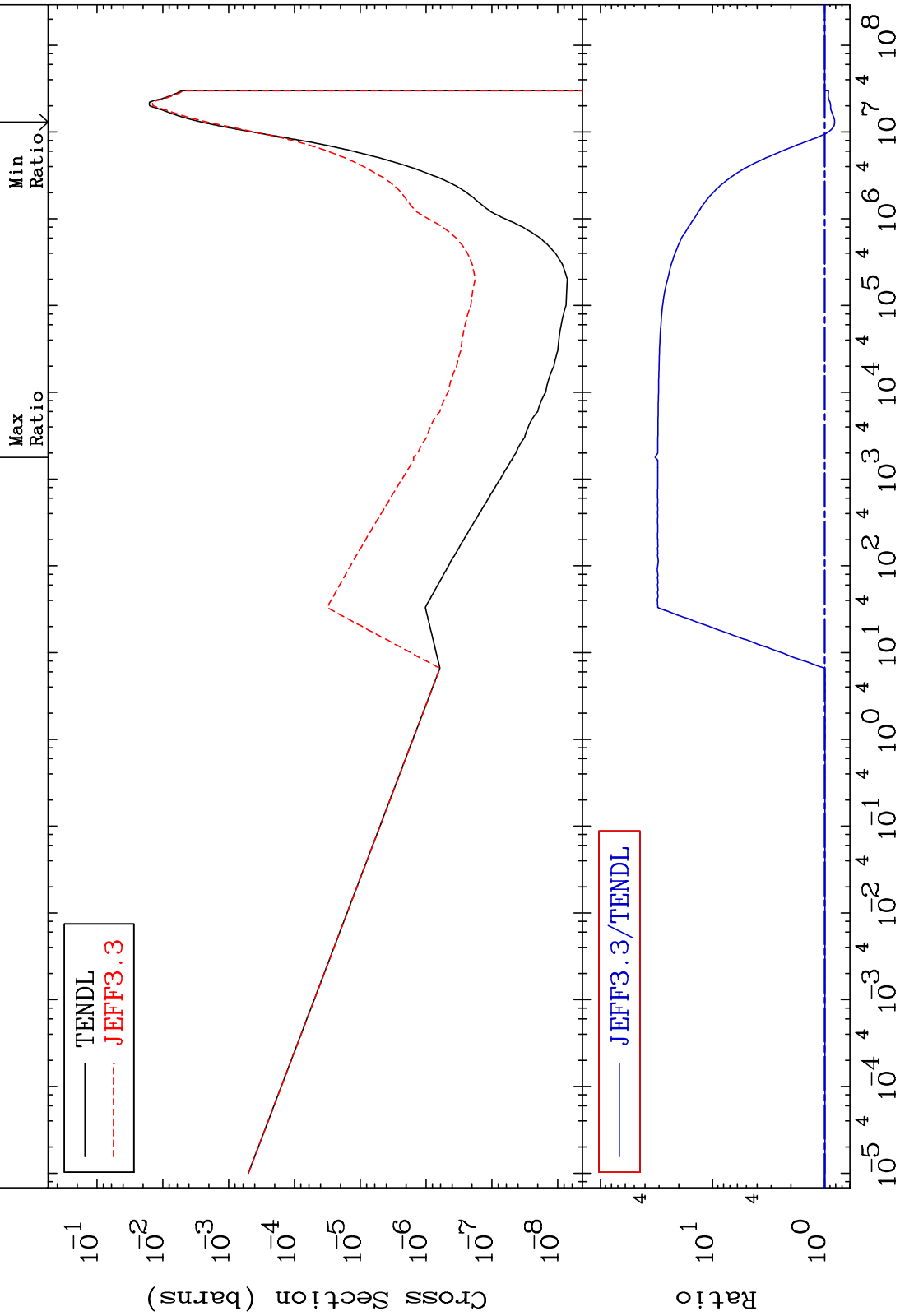
MAT 7031

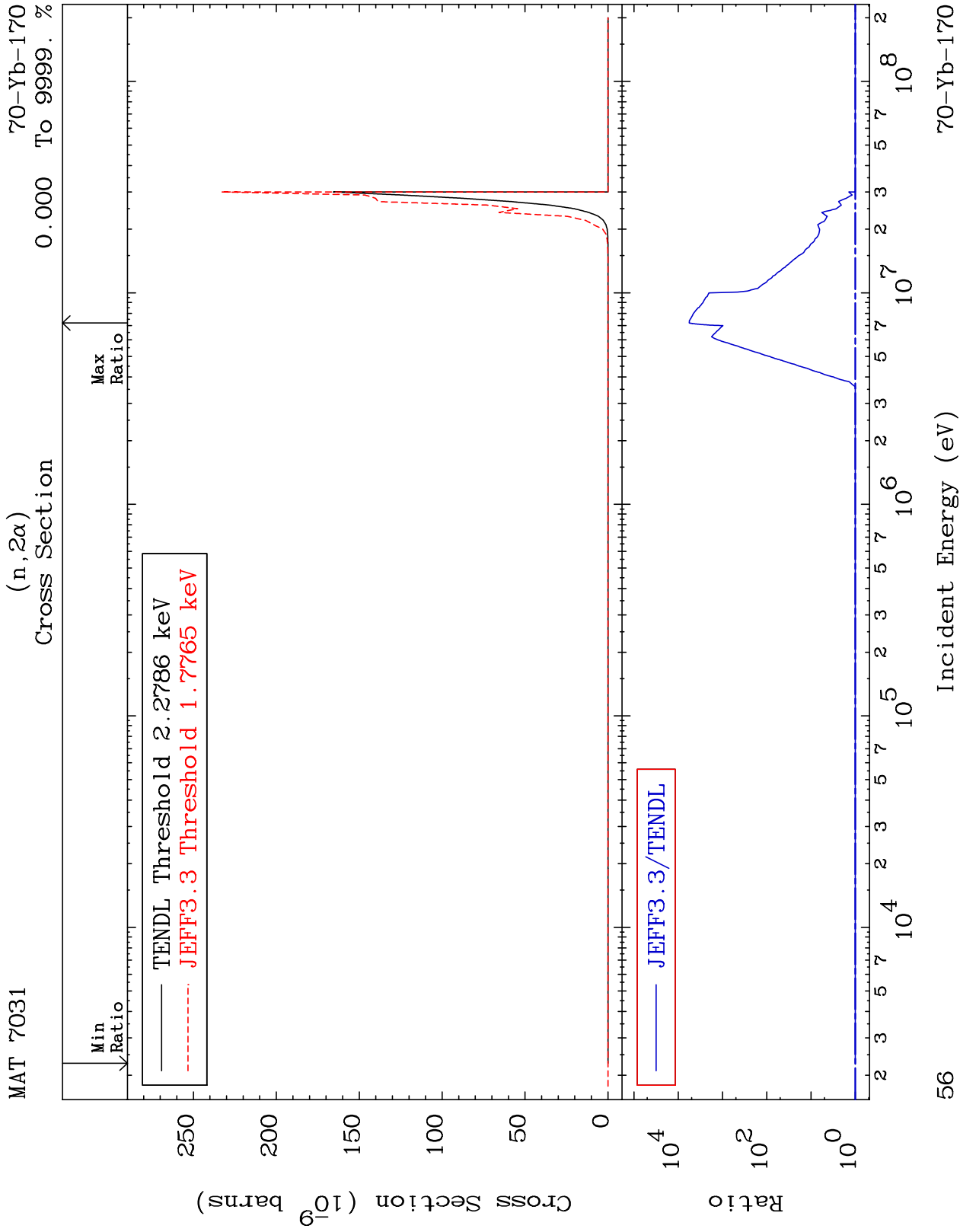
(n, α)

70-Yb-170

-18.36 To 3153. %

Cross Section





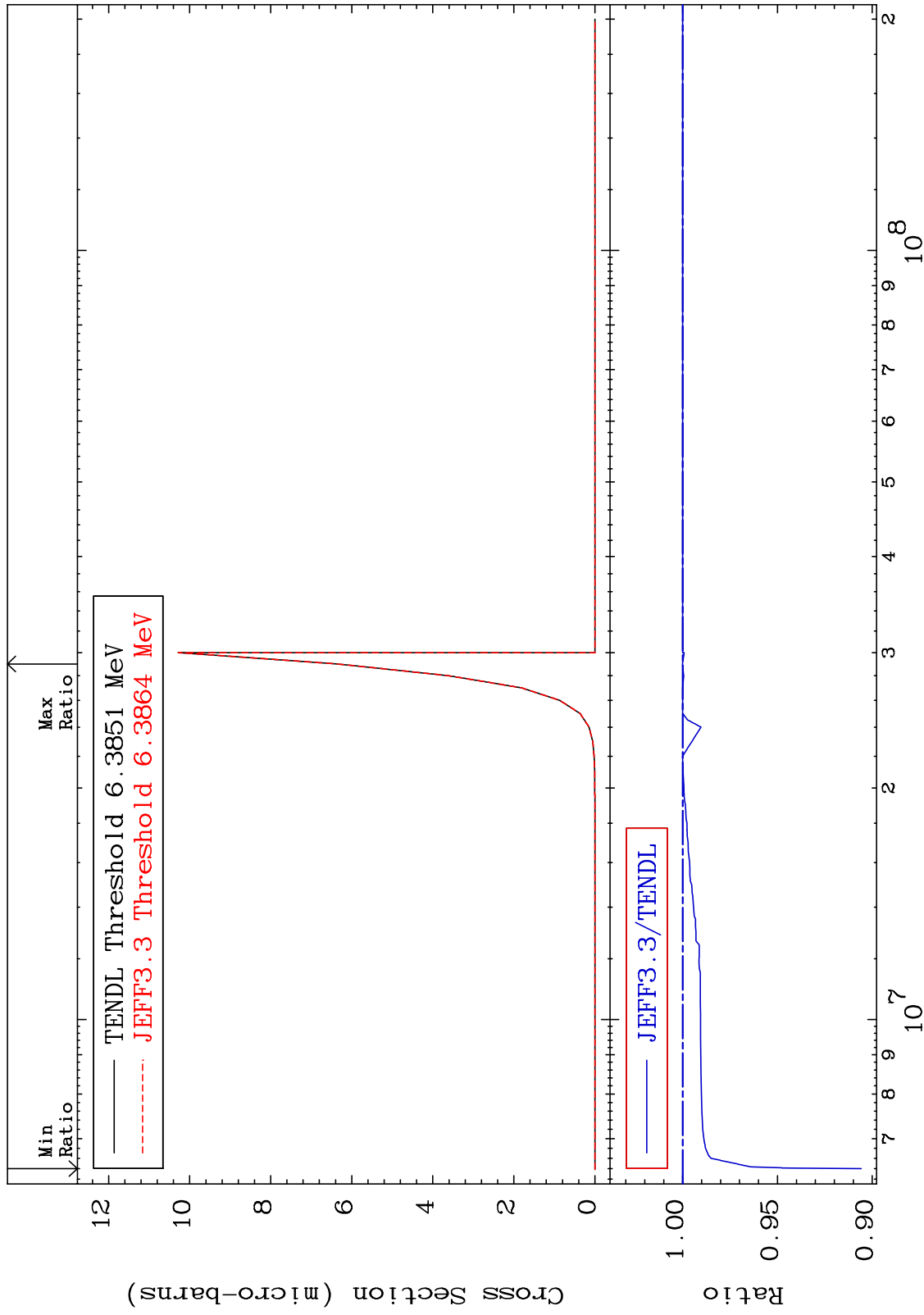
MAT 7031

(n,2p)

70-Yb-170

-9.423 To 0.013 %

Cross Section



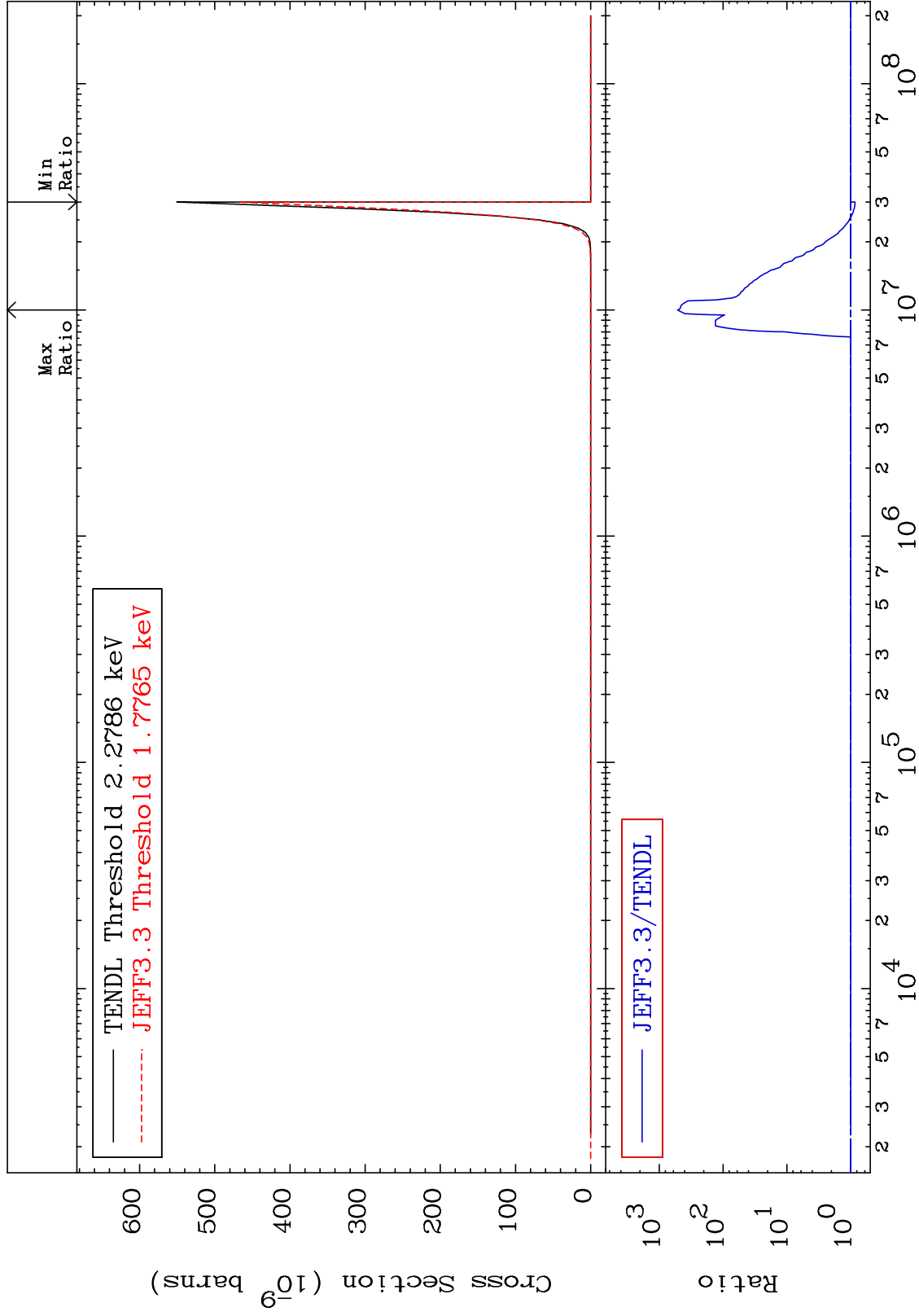
MAT 7031

(n,p) α

70-Yb-170

Cross Section

-14.67 To 9999. %



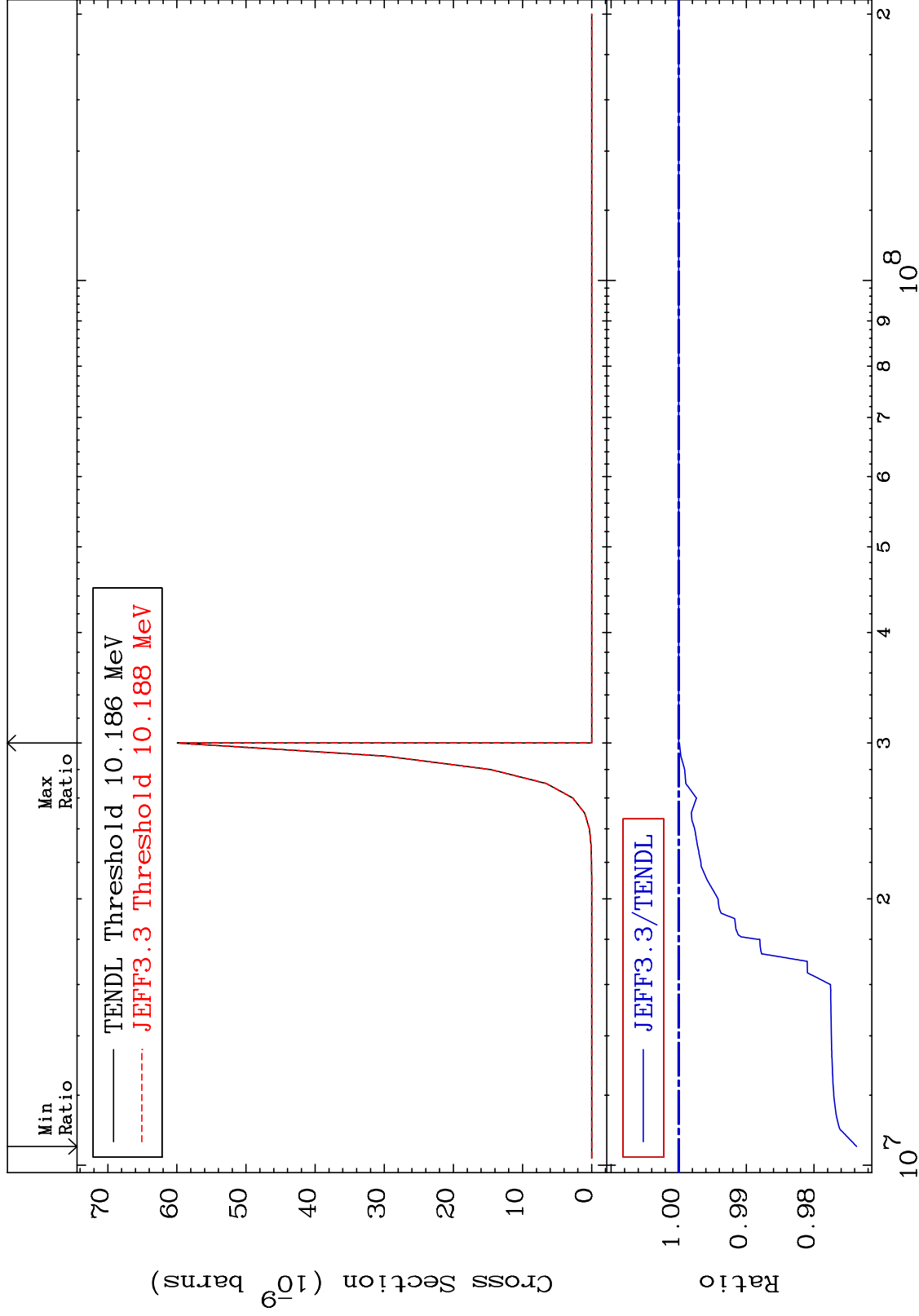
MAT 7031

(n,p) d

70-Yb-170

Cross Section

-2.629 To 0.000 %



Incident Energy (eV)

70-Yb-170

59

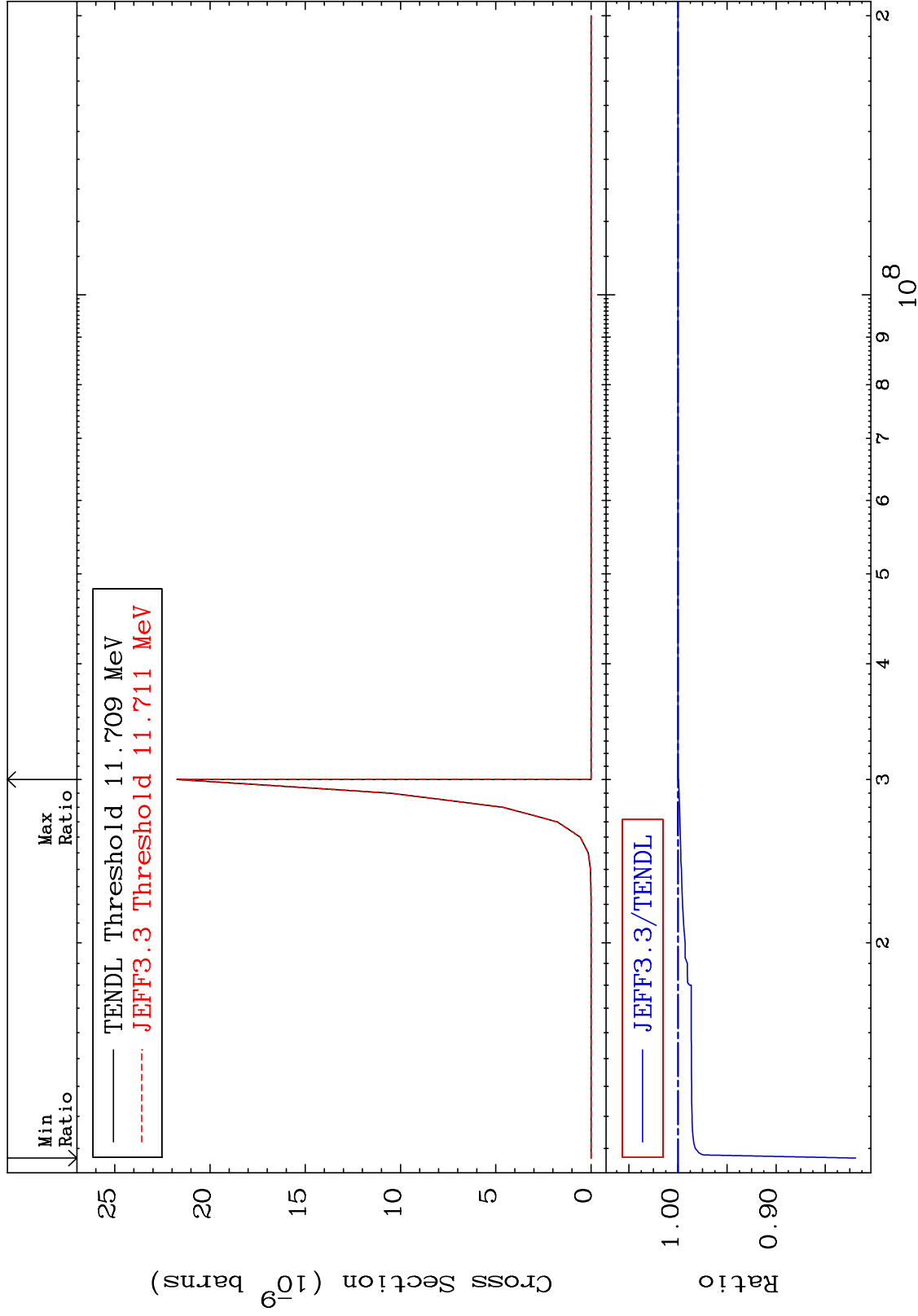
MAT 7031

(n,p) t

70-Yb-170

Cross Section

-18.11 To 0.000 %



60

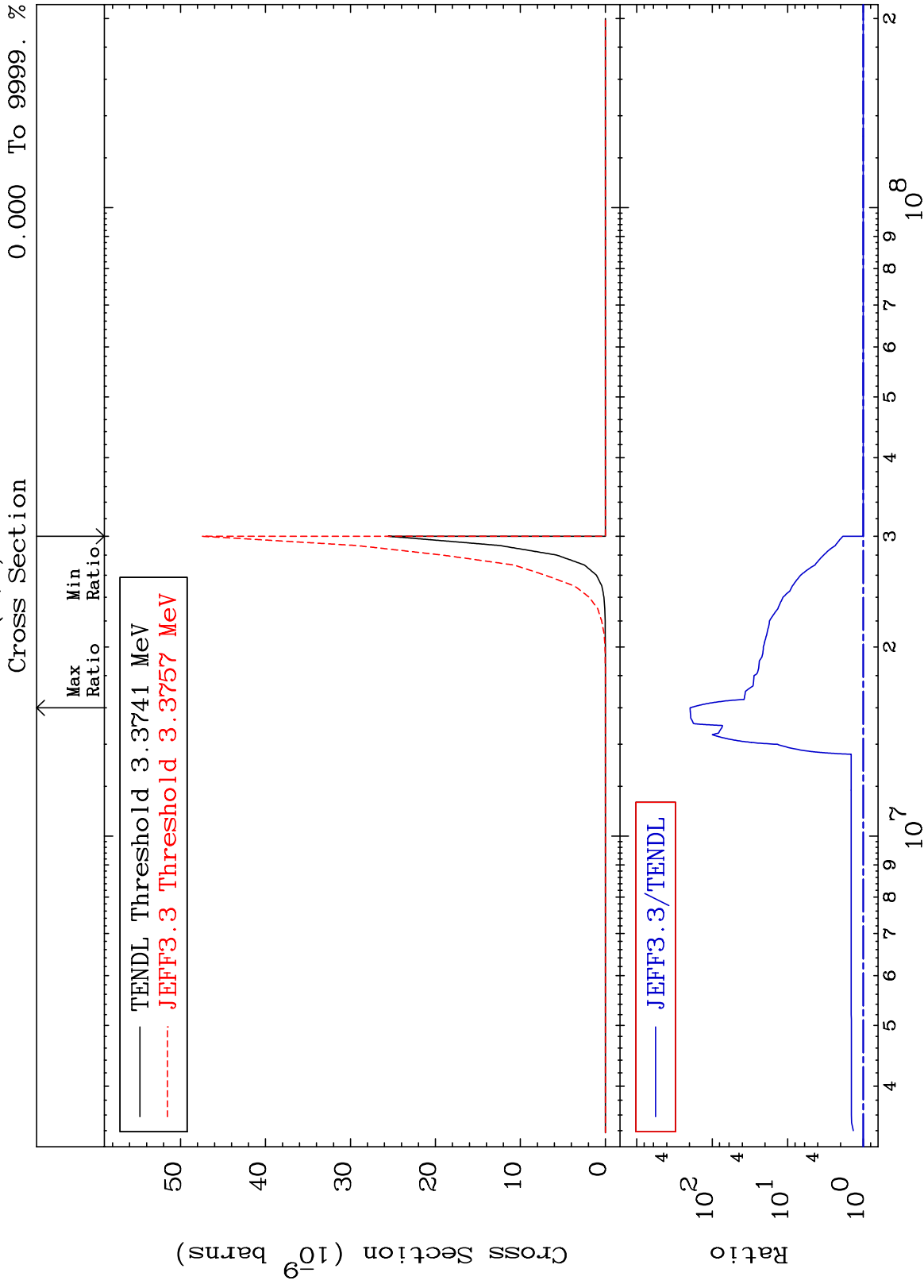
Incident Energy (eV)

70-Yb-170

MAT 7031

(n,d) α

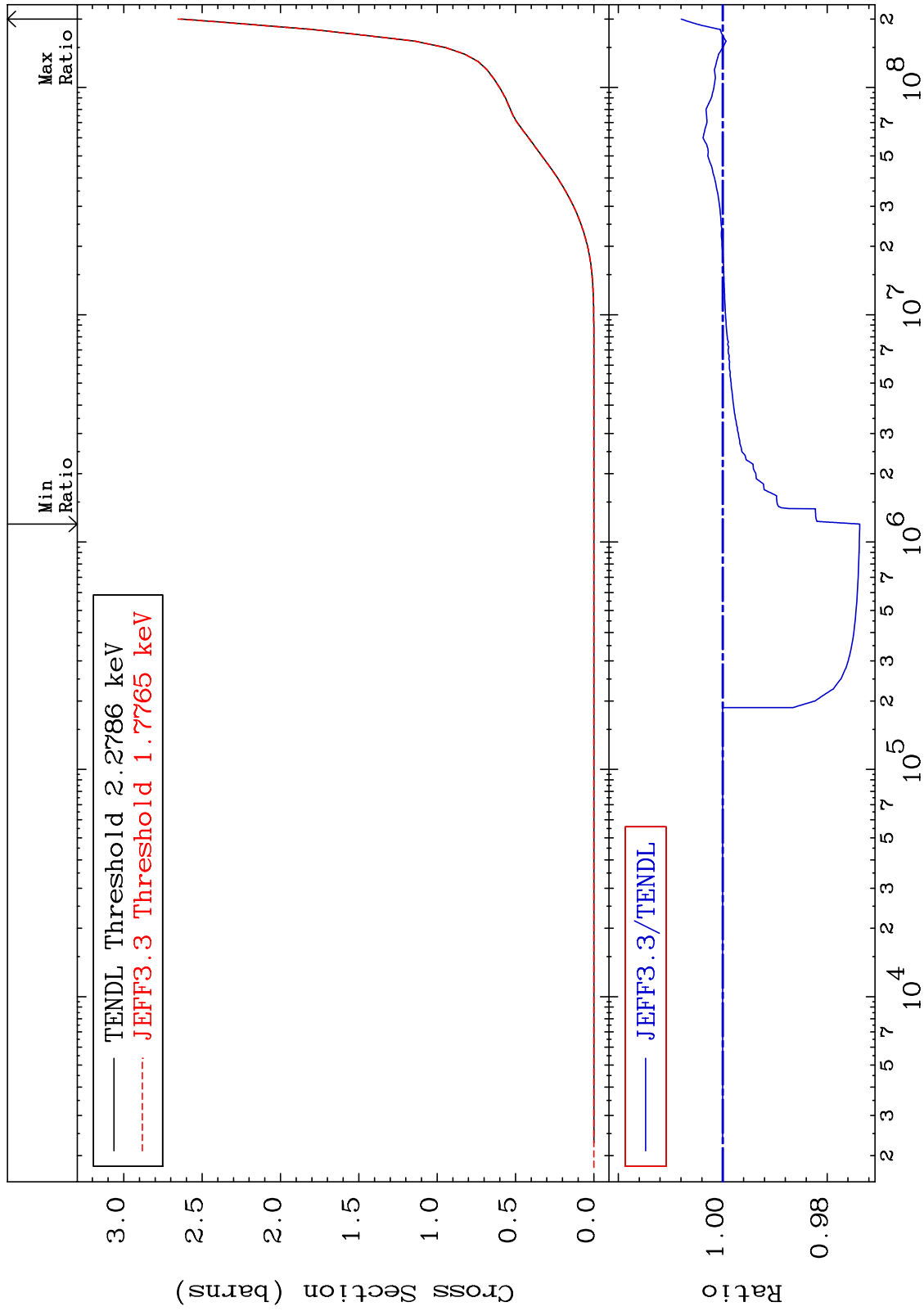
70-Yb-170
To 9999. %
0.000



MAT 7031

Hydrogen Production
Cross Section

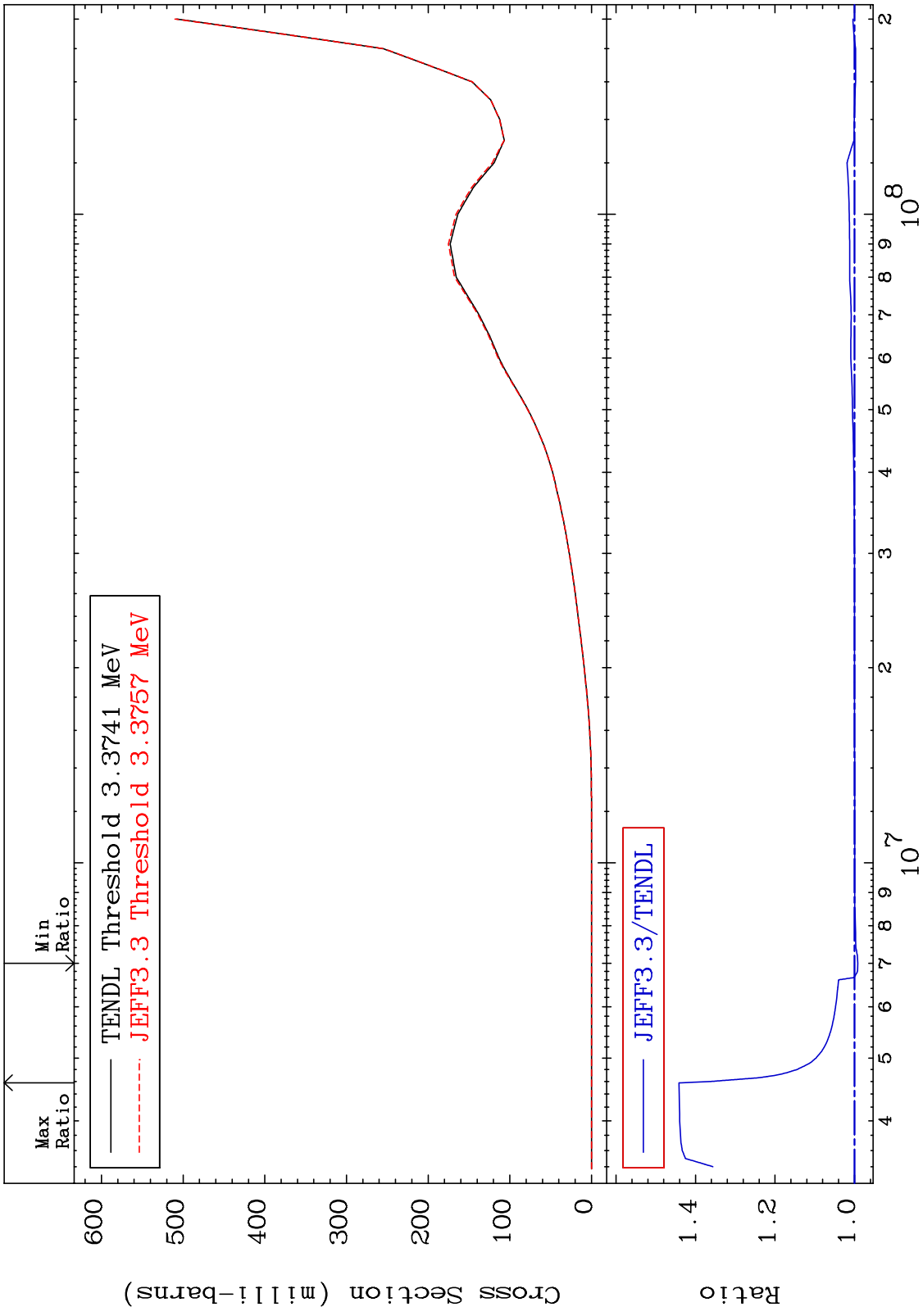
70-Yb-170
-2.625 To 0.795 %



62

Incident Energy (eV)

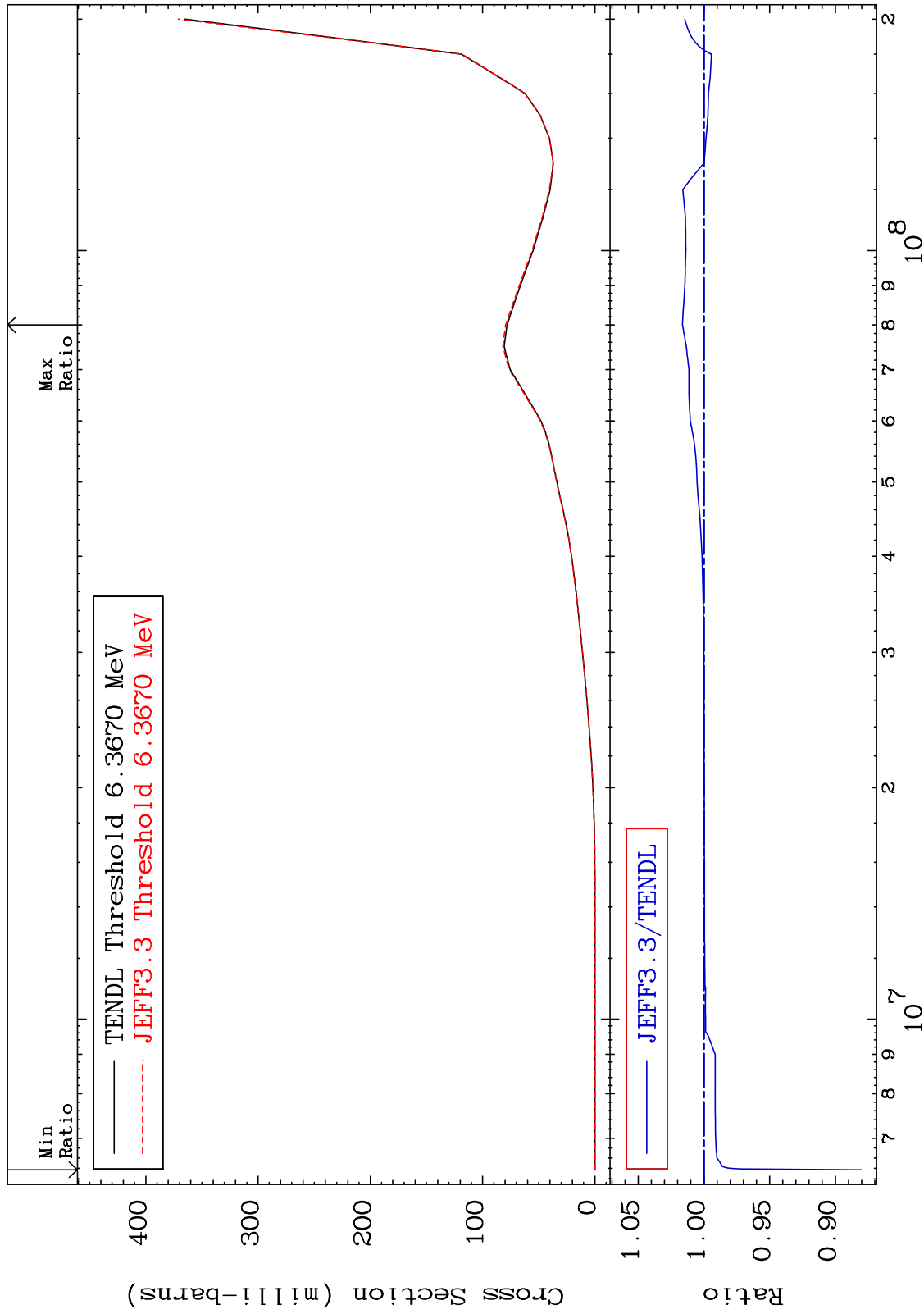
70-Yb-170



MAT 7031

Tritium Production
Cross Section

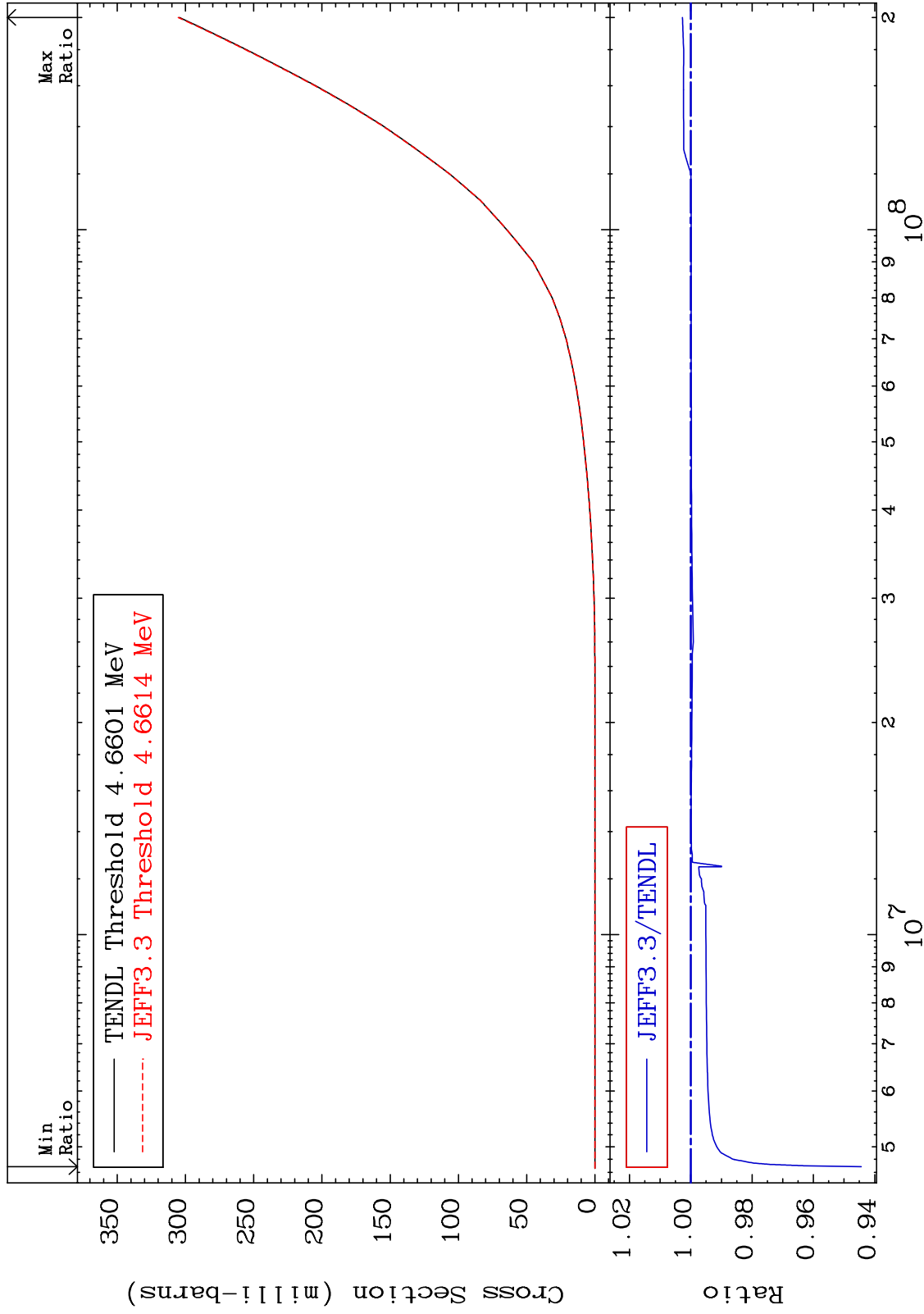
70-Yb-170
-11.98 To 1.635 %



MAT 7031

He-3 Production
Cross Section

70-Yb-170
-5.563 To 0.271 %



65

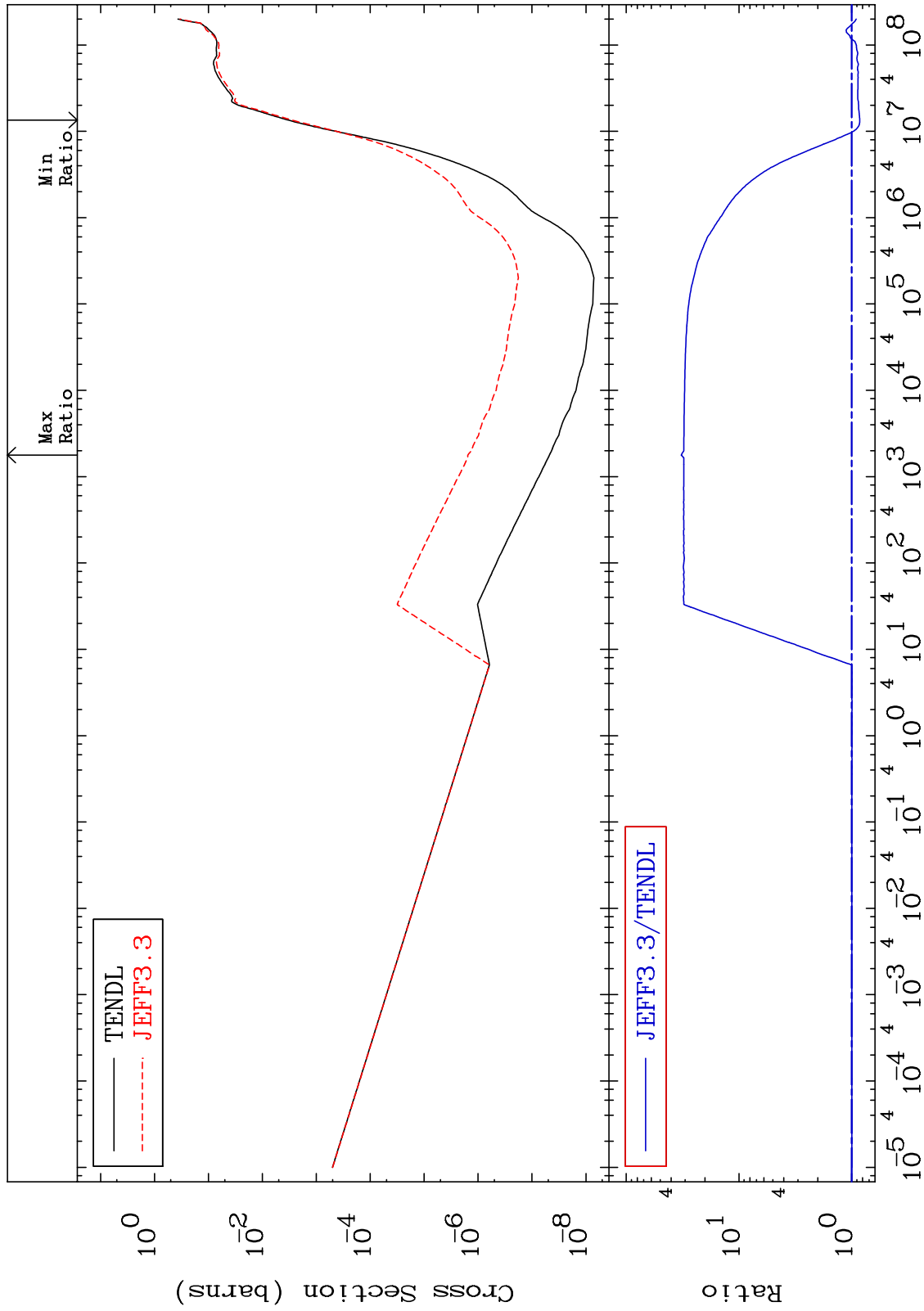
Incident Energy (eV)

70-Yb-170

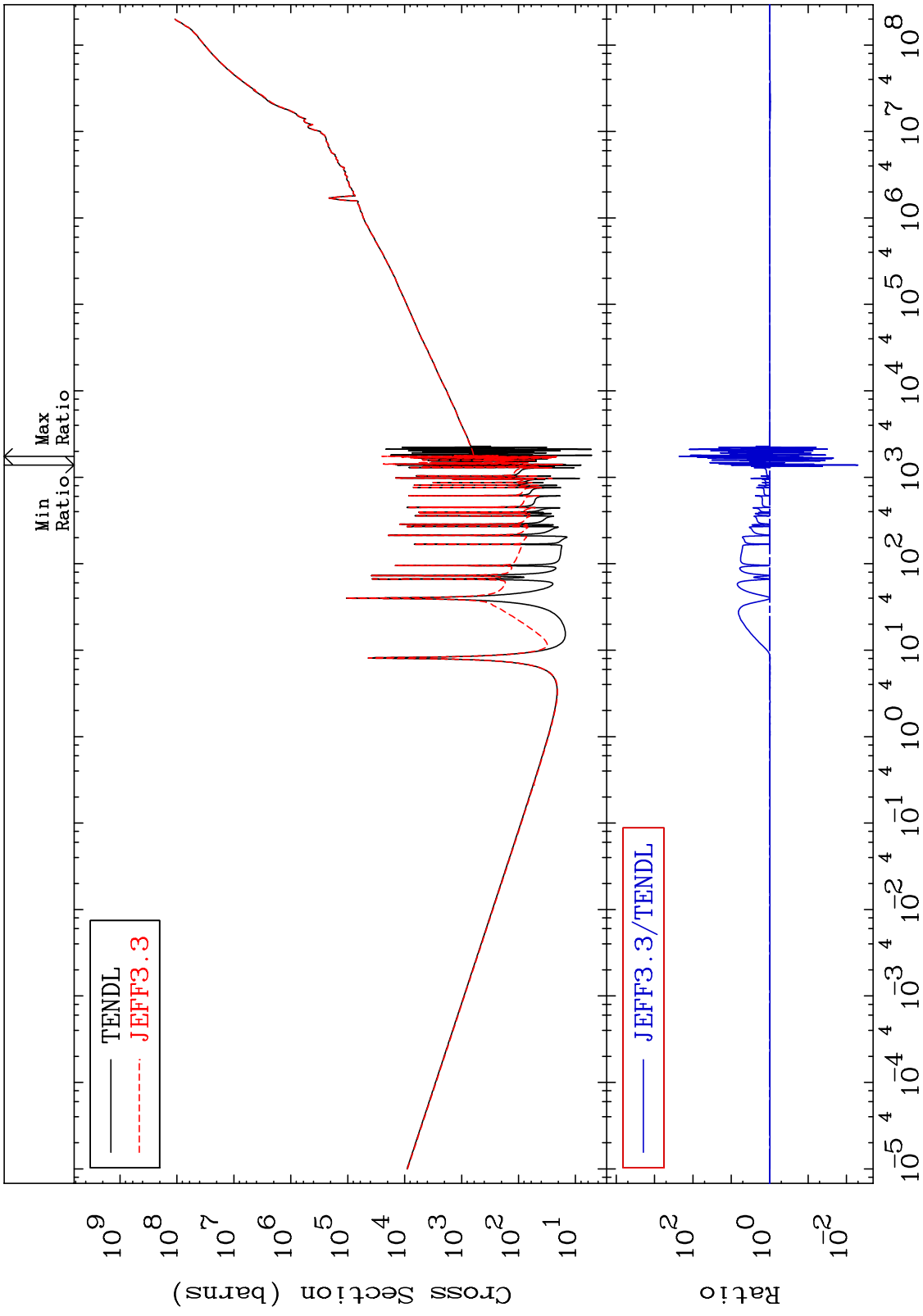
MAT 7031

He-4 Production
Cross Section

70-Yb-170
-15.22 To 3153. %



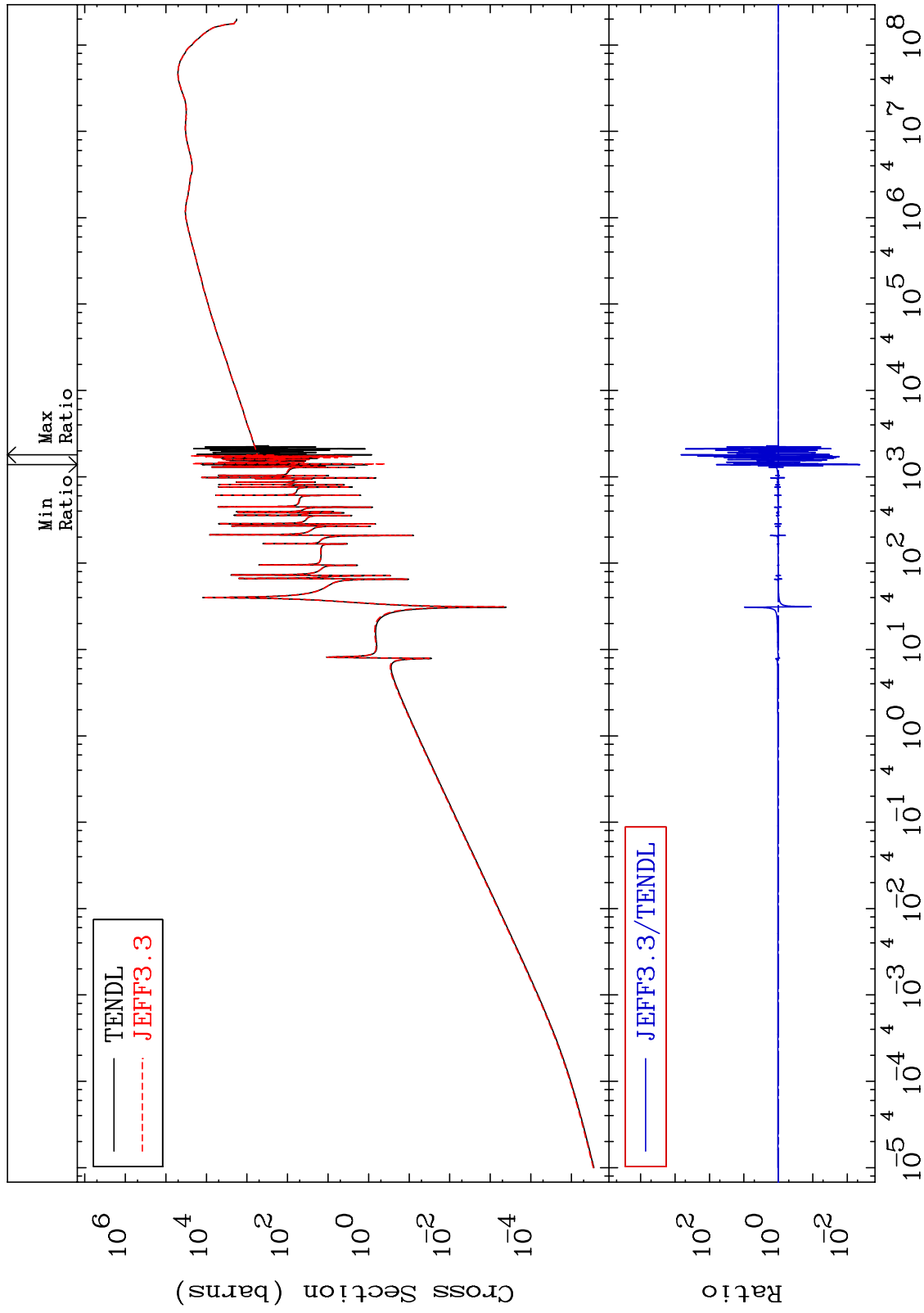
MAT 7031 Kerma total (eV-barns) 70-Yb-170
 Cross Section -99.49 To 9999. %



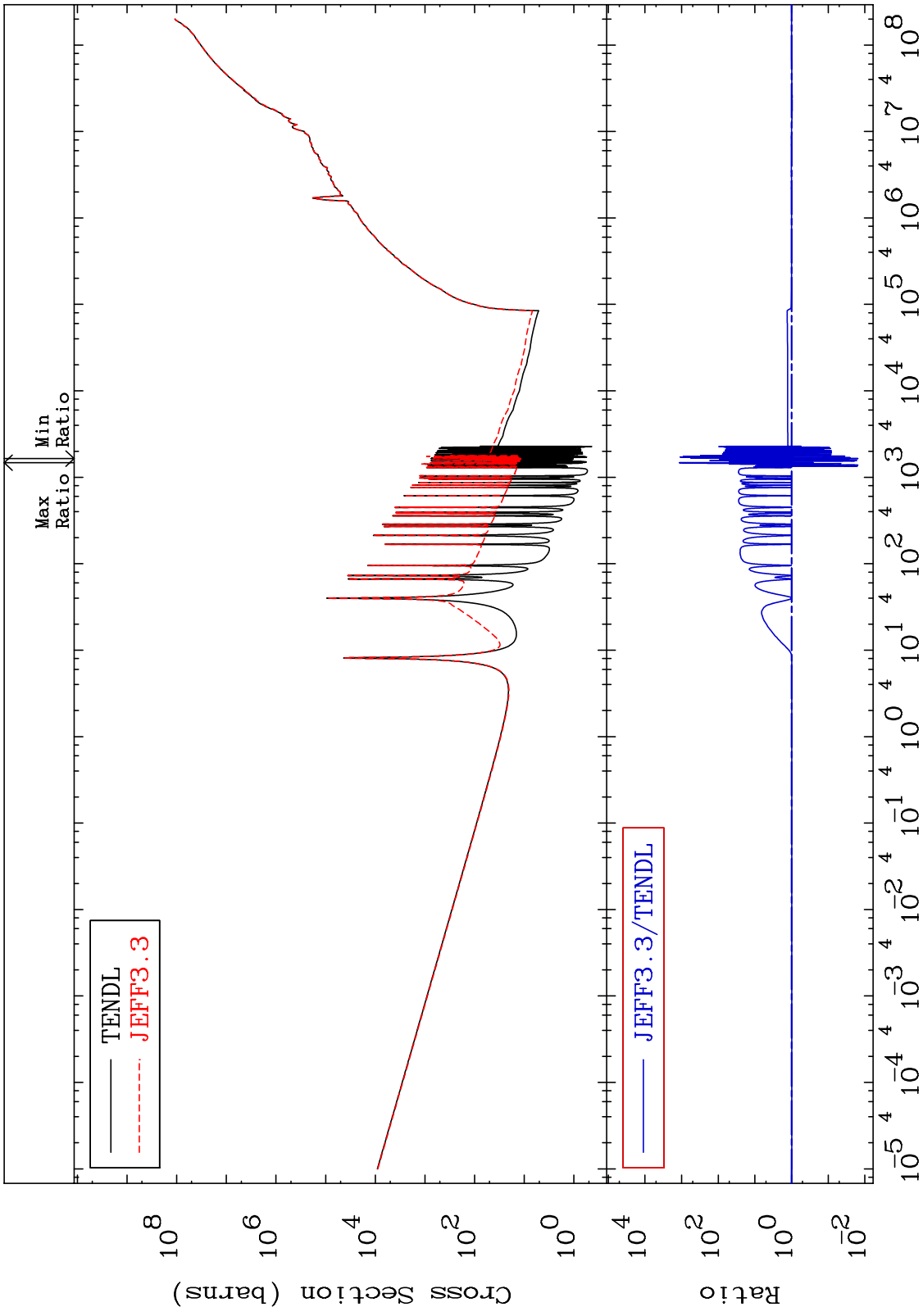
MAT 7031

Kerma elastic
Cross Section

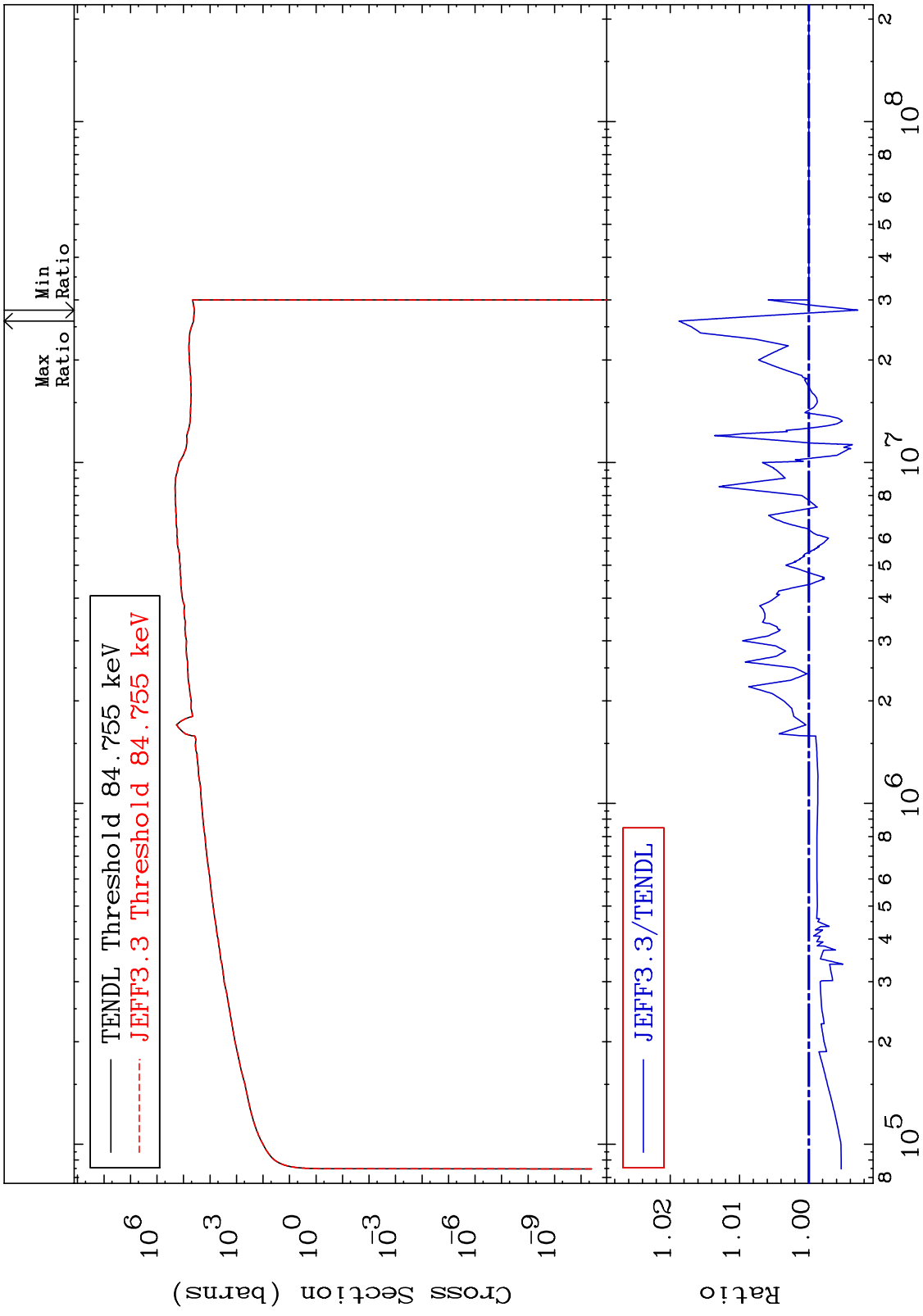
70-Yb-170
-99.57 To 9999. %



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

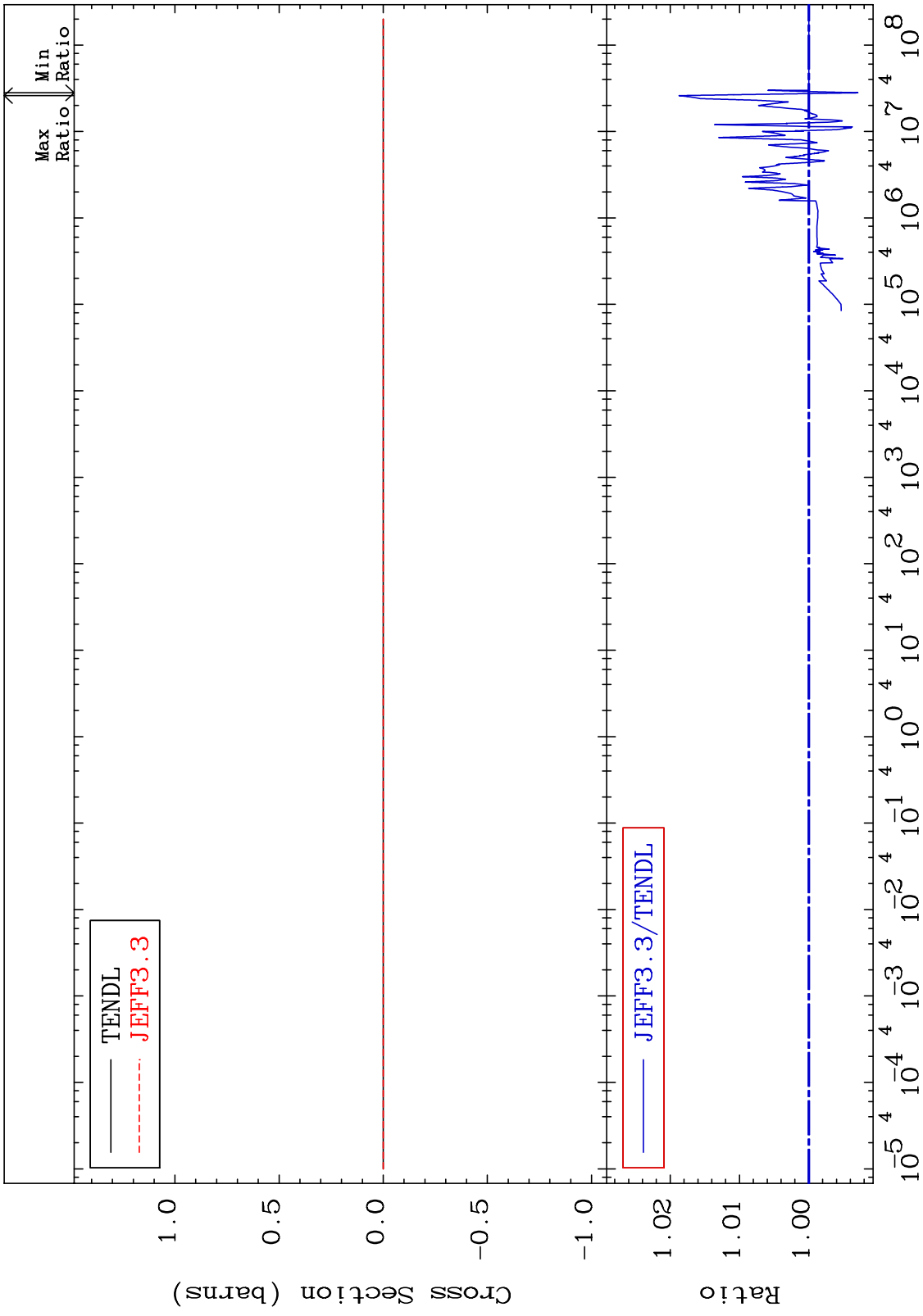


MAT 7031 Kerma inelastic (mt51-91) 70-Yb-170
 Cross Section -0.708 To 1.872 %



70 Incident Energy (eV) 70-Yb-170

MAT 7031 Kerma fission (mt18 or mt19-20-21-38) 70-Yb-170
 Cross Section -0.708 To 1.872 %

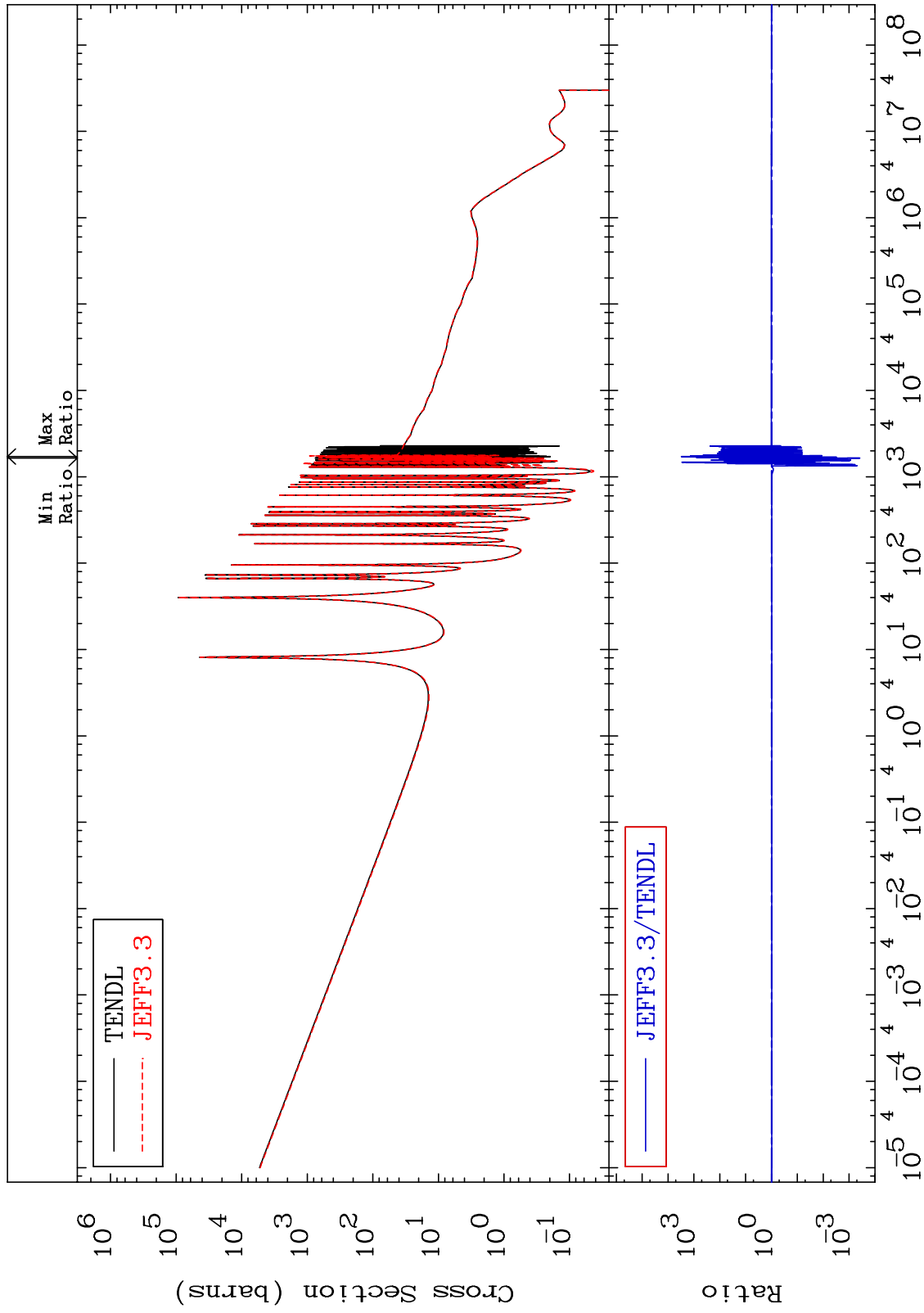


71 Incident Energy (eV) 70-Yb-170

MAT 7031

Kerma capture (mt102)
Cross Section

70-Yb-170
-99.96 To 9999. %



72

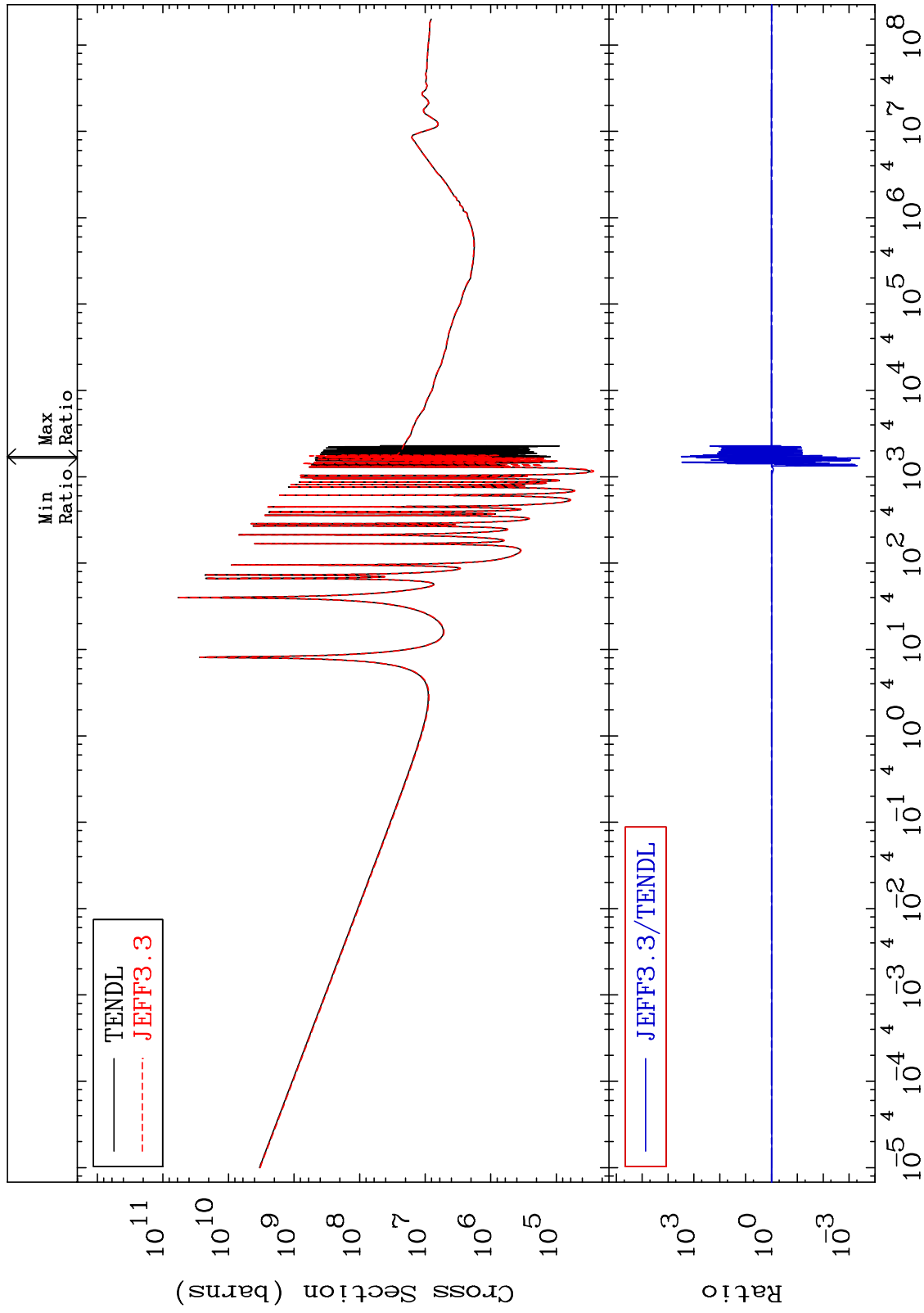
Incident Energy (eV)

70-Yb-170

MAT 7031

Total photon (eV-barns)
Cross Section

70-Yb-170
-99.96 To 9999. %



73

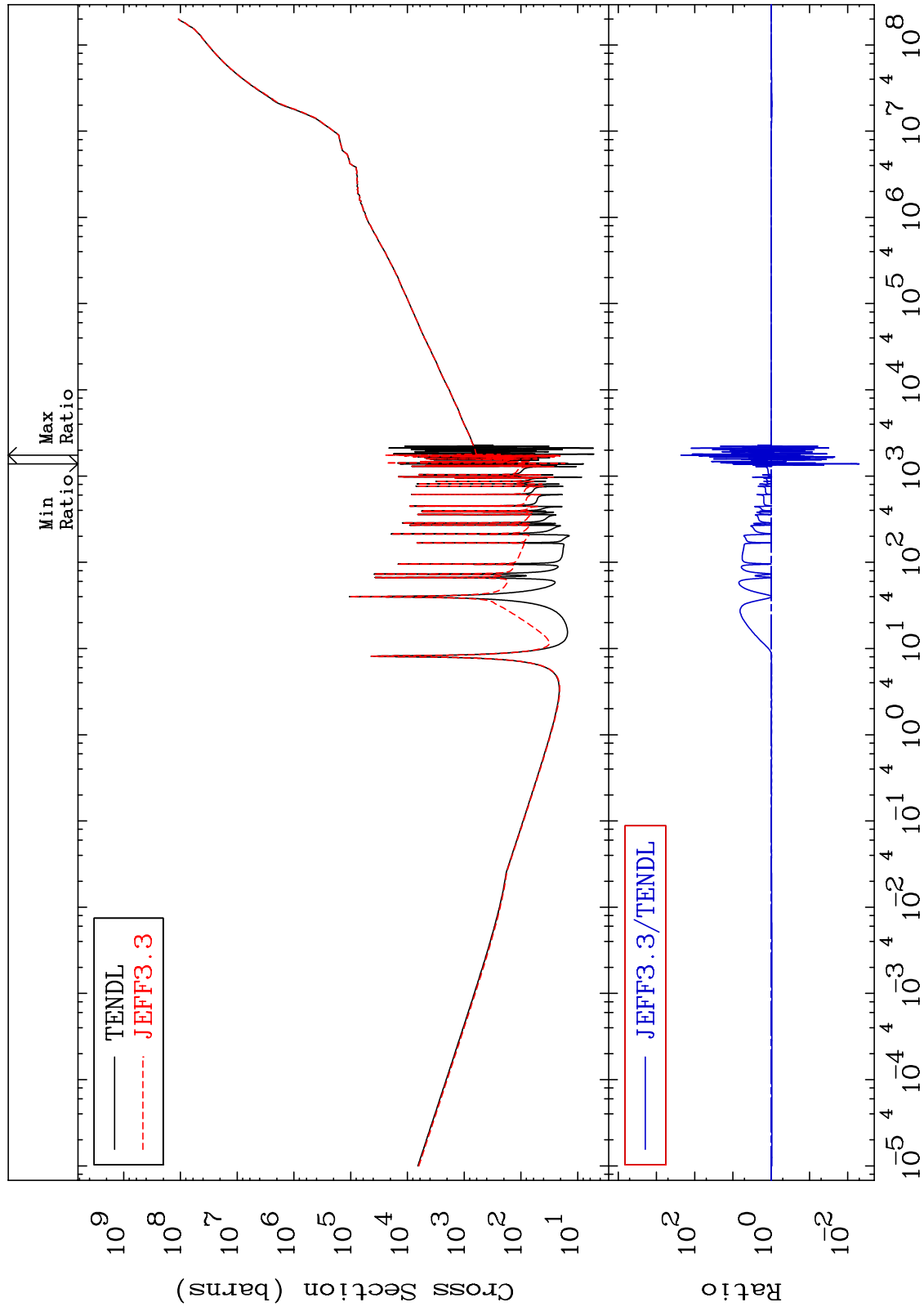
Incident Energy (eV)

70-Yb-170

MAT 7031

Total kinematic kerma (high limit)
Cross Section

70-Yb-170
-99.49 To 9999. %



74

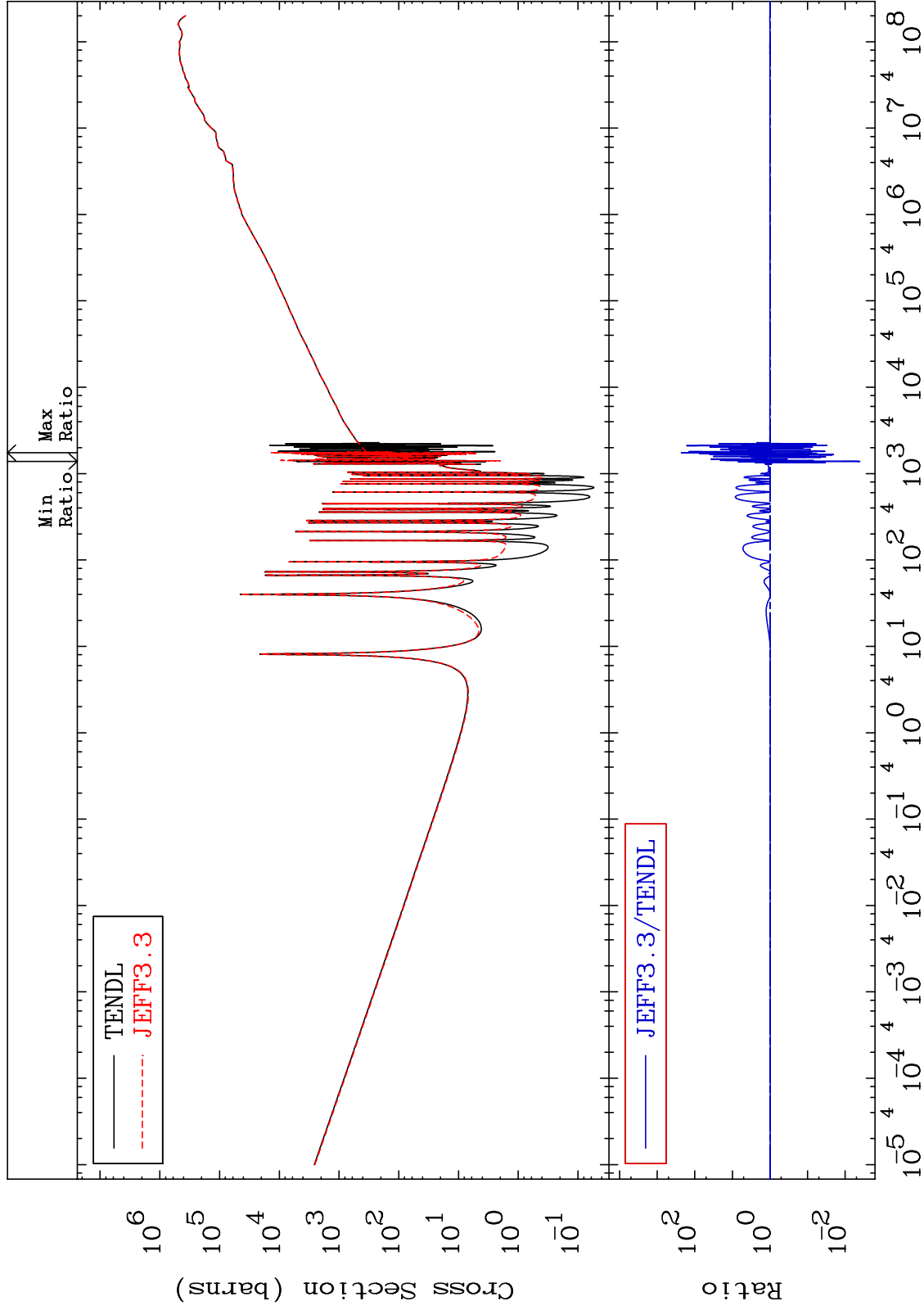
Incident Energy (eV)

70-Yb-170

MAT 7031

Dpa total (eV-barns)
Cross Section

70-Yb-170
-99.59 To 9999. %



75

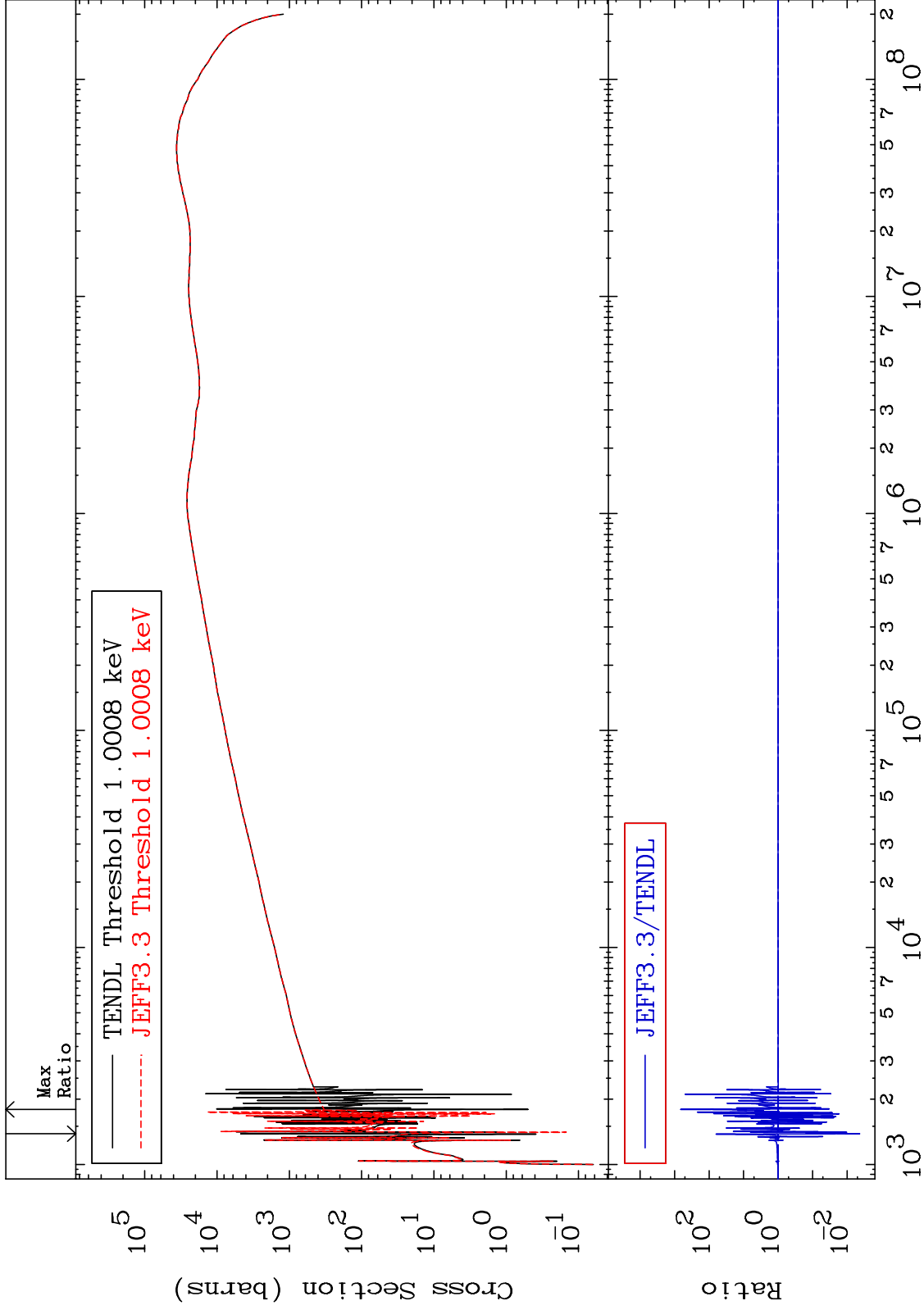
Incident Energy (eV)

70-Yb-170

MAT 7031

Dpa elastic (mt2)
Cross Section

70-Yb-170
-99.57 To 9999. %

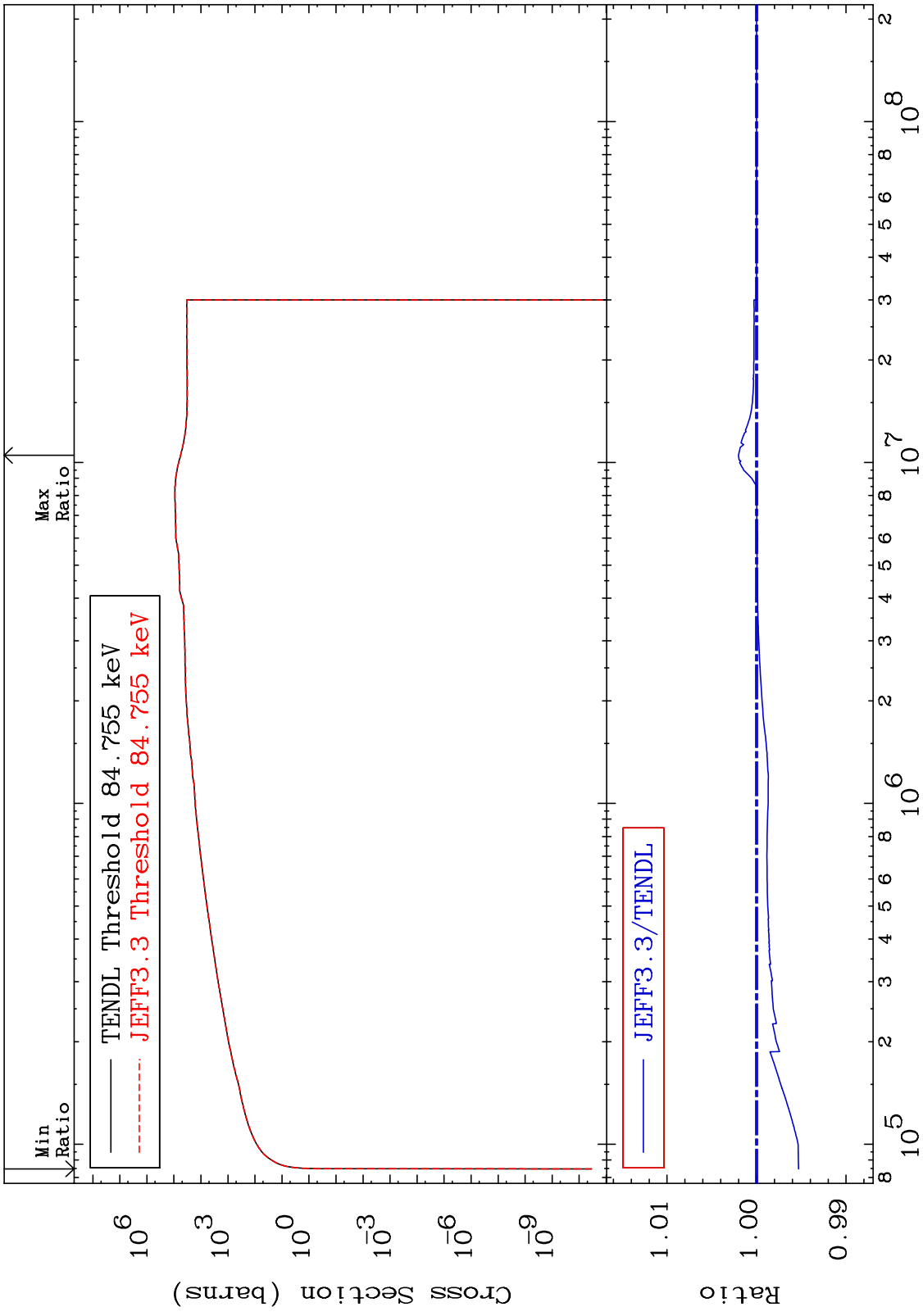


76

Incident Energy (eV)

70-Yb-170

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

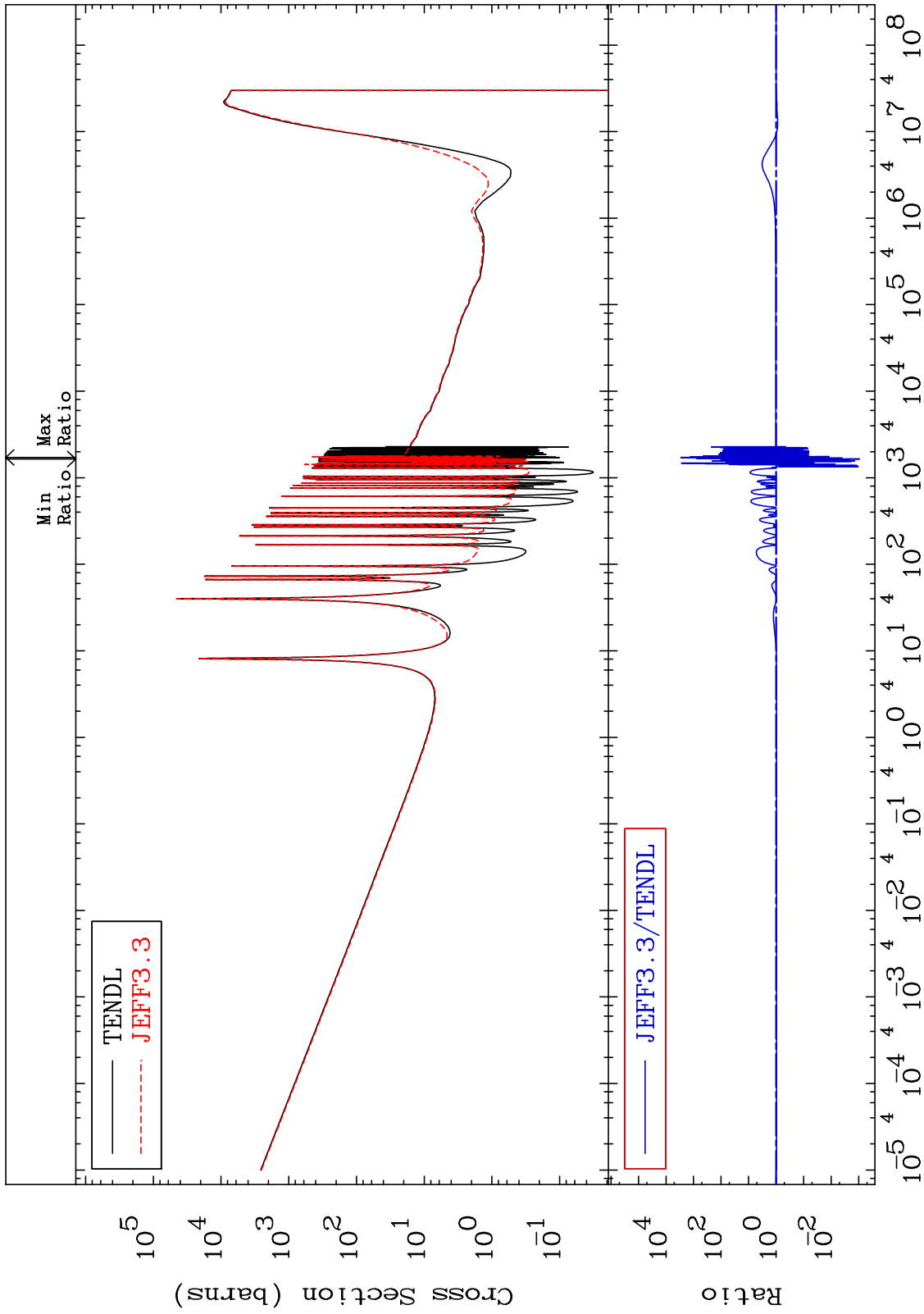


77 70-Yb-170

MAT 7031

Dpa disappearance (mt102 -120)
Cross Section

70-Yb-170
-99.91 To 9999. %



78

Incident Energy (eV)

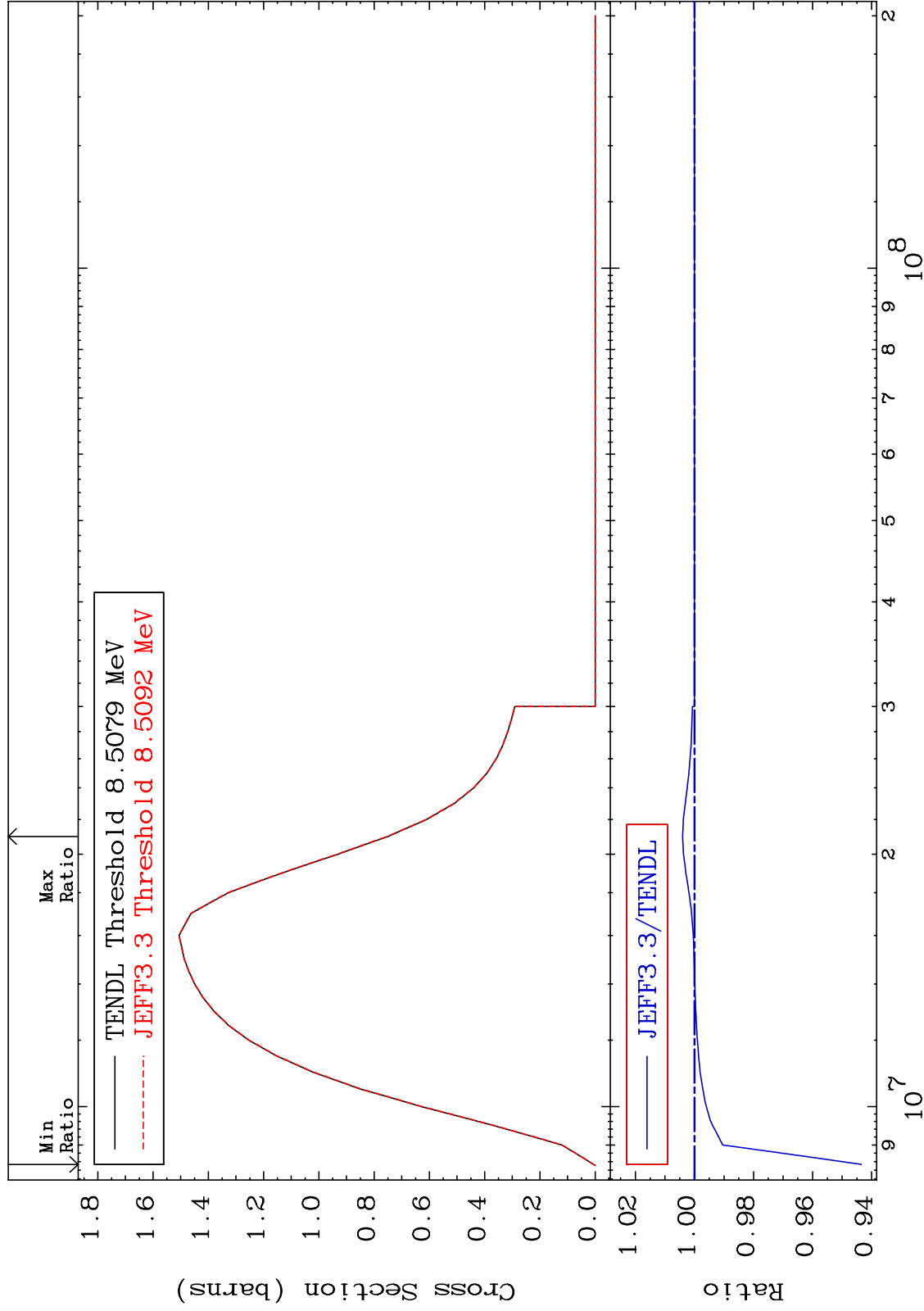
70-Yb-170

MAT 7031

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

70-Yb-170

Radionuclide Production Cross Section -5.651 To 0.400 %



79

Incident Energy (eV)

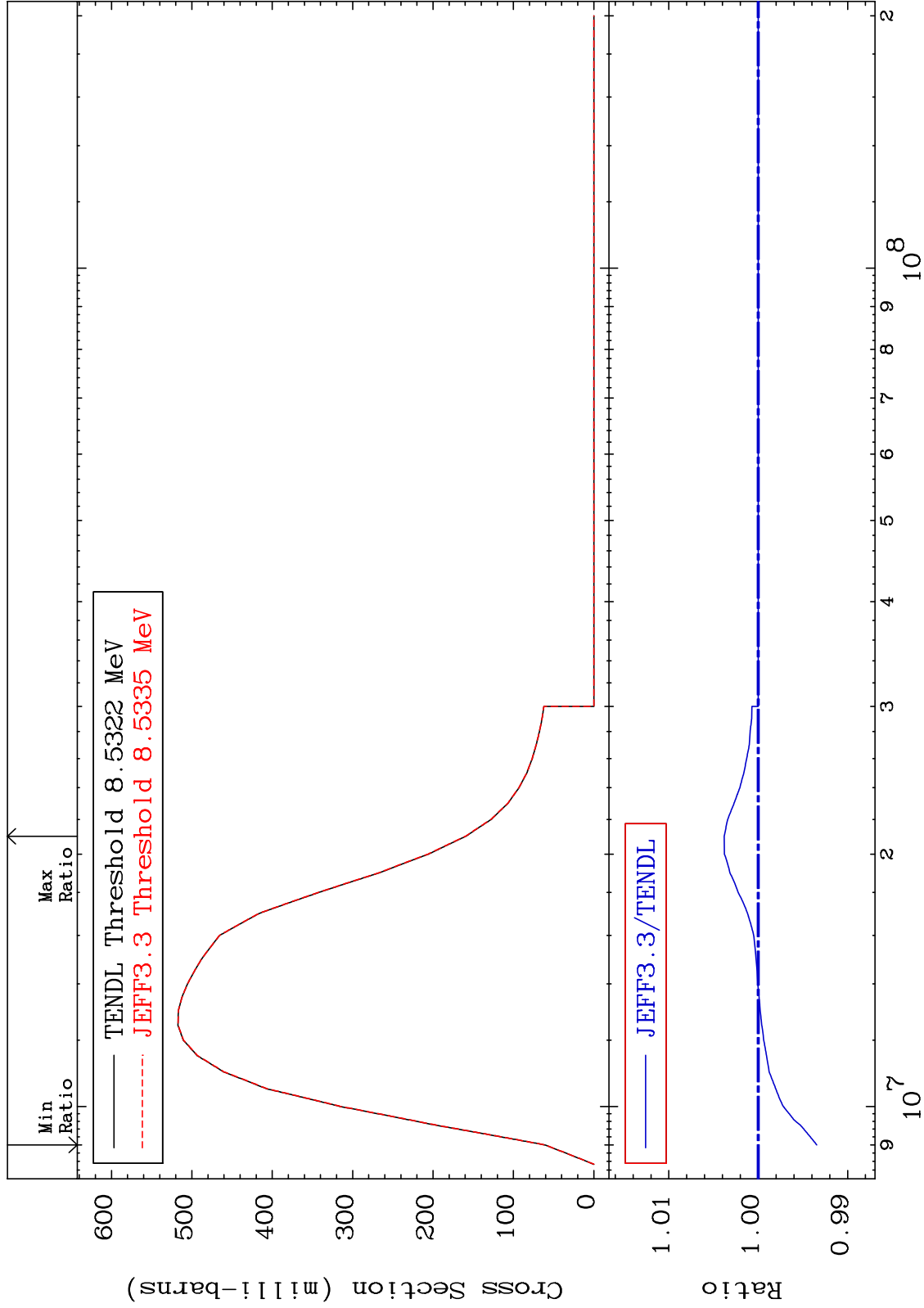
70-Yb-170

MAT 7031

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

70-Yb-170

Radionuclide Production Cross Section -0.655 To 0.380 %



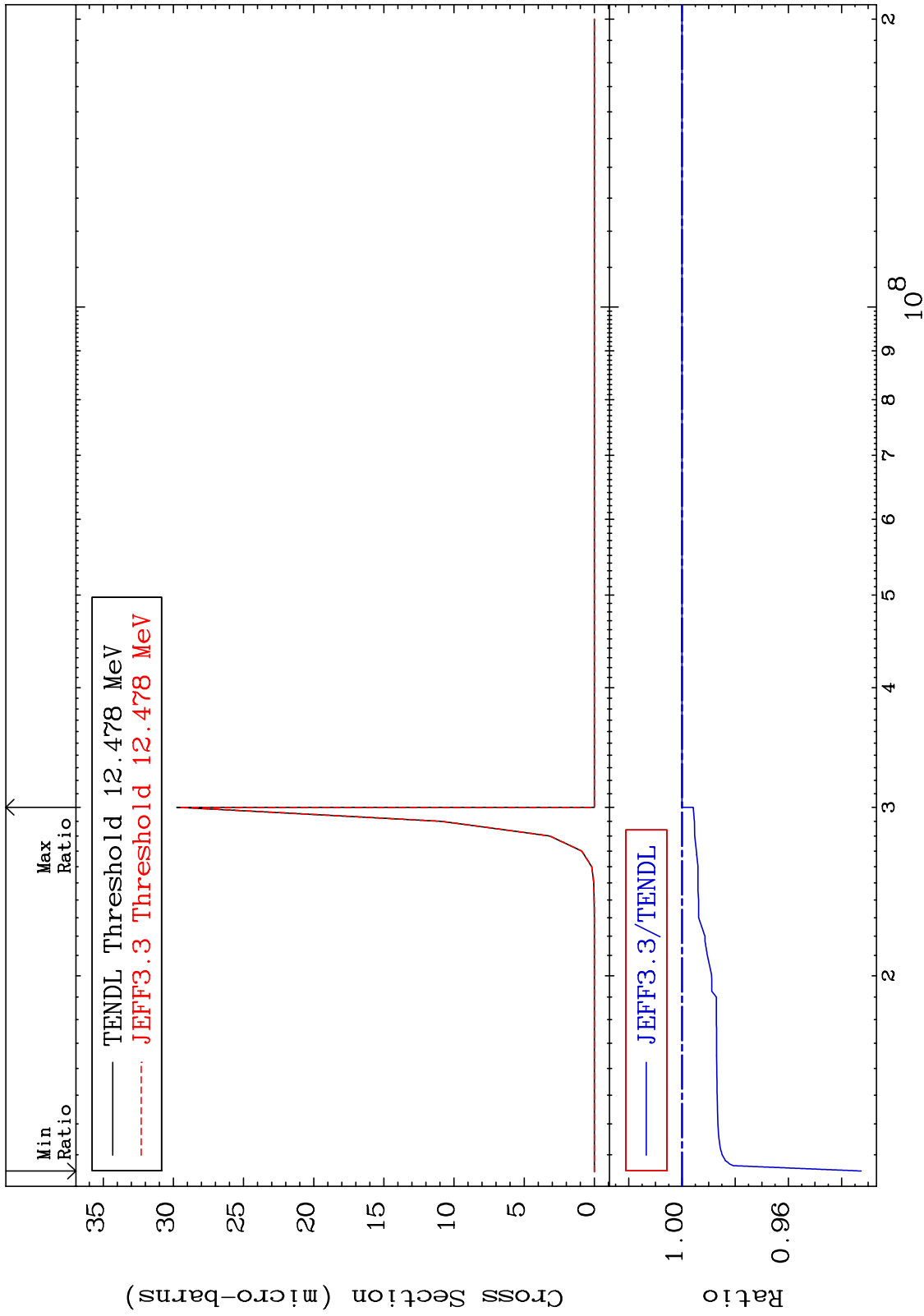
80

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 %



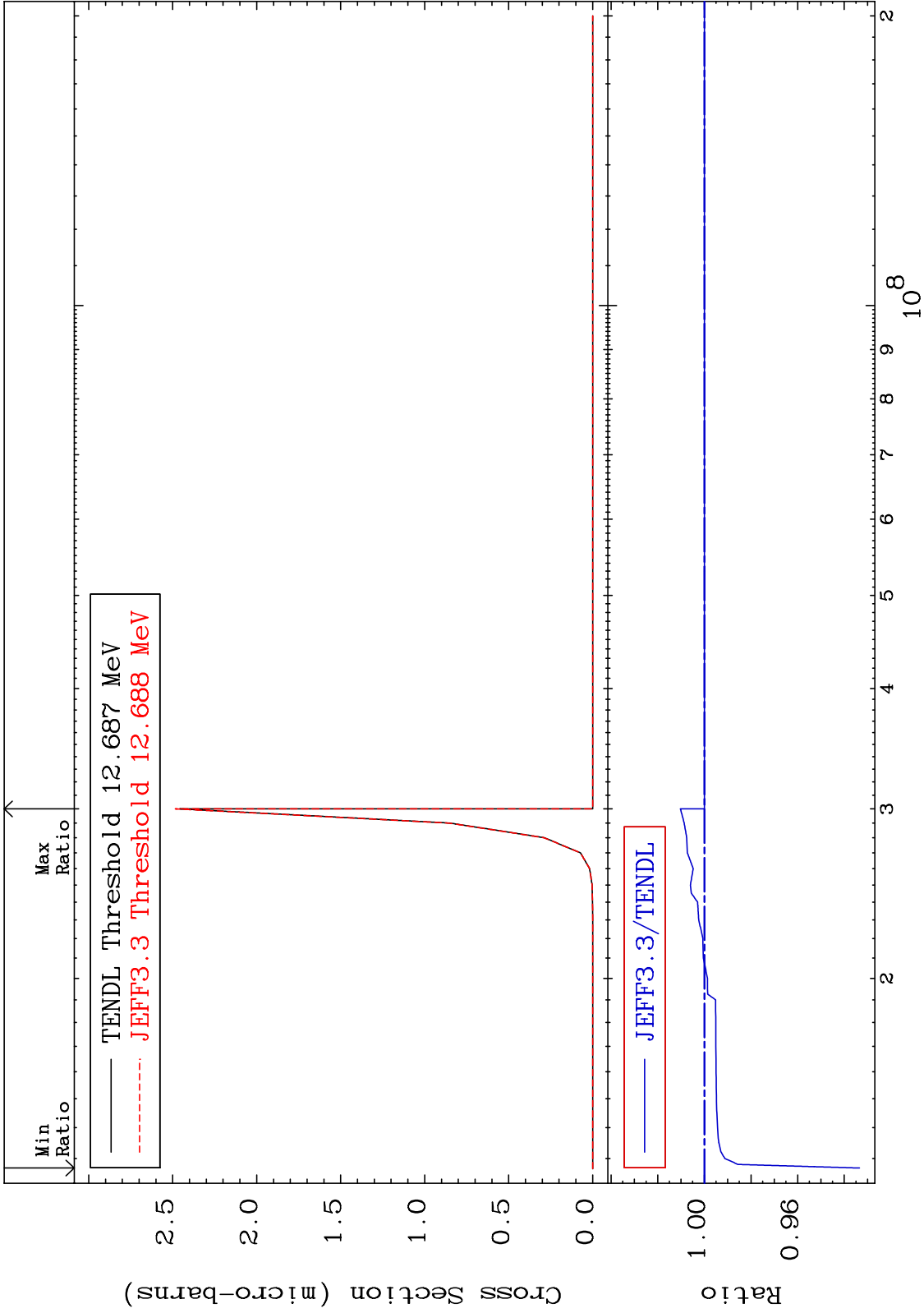
81

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 %

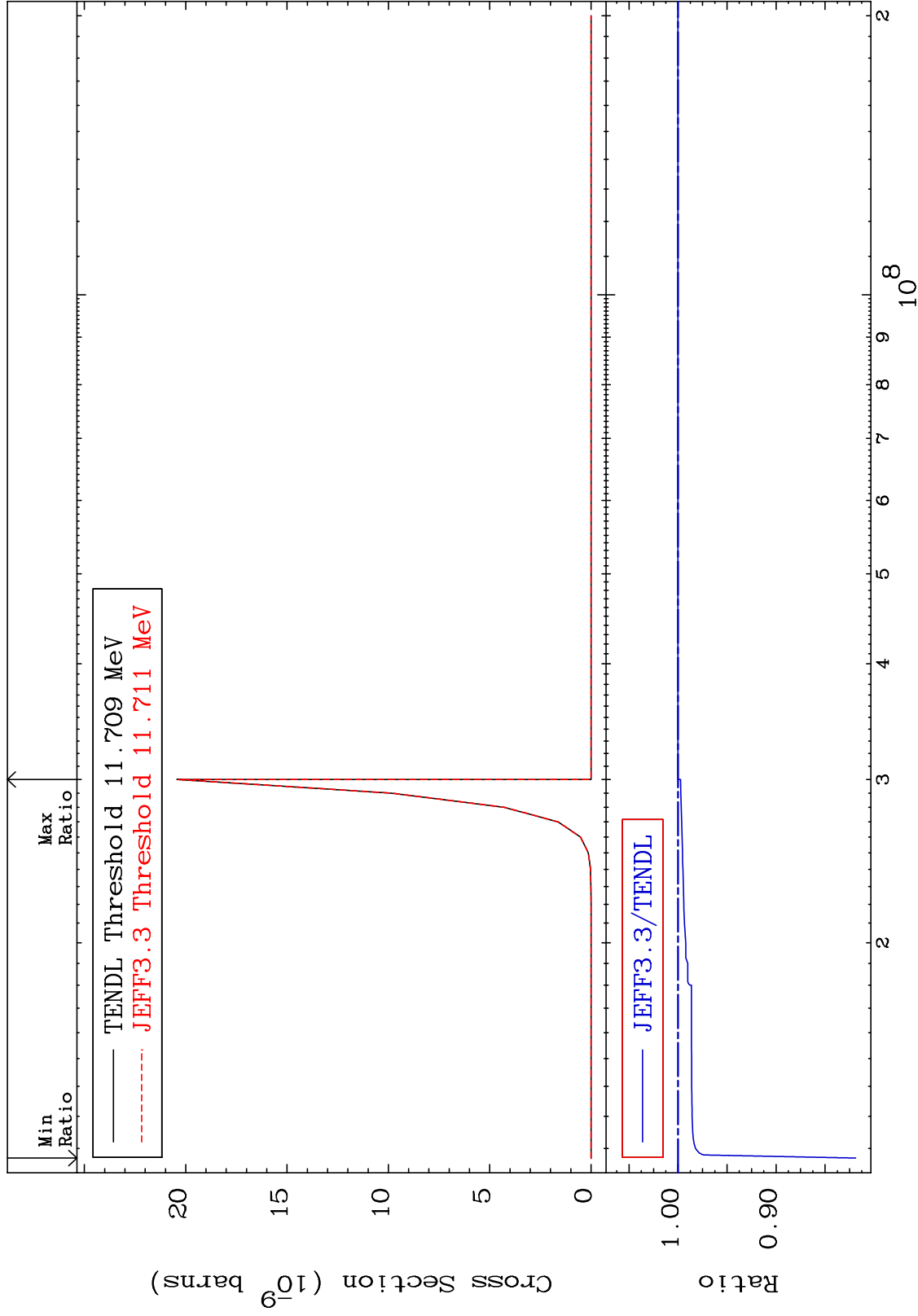


82

70-Yb-170

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 %

