

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

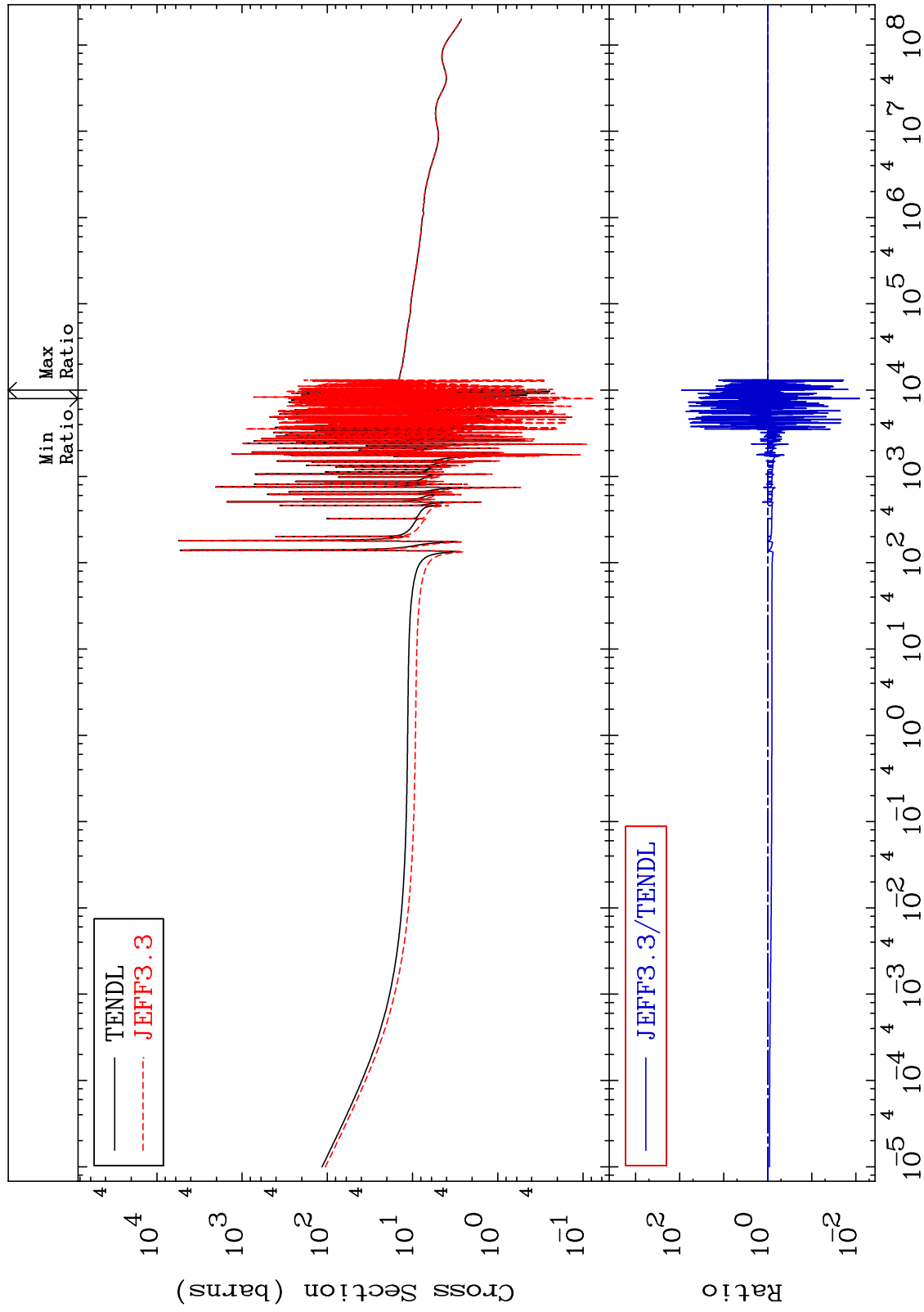
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7037

Total
Cross Section

70-Yb-172
-99.19 To 9026. %



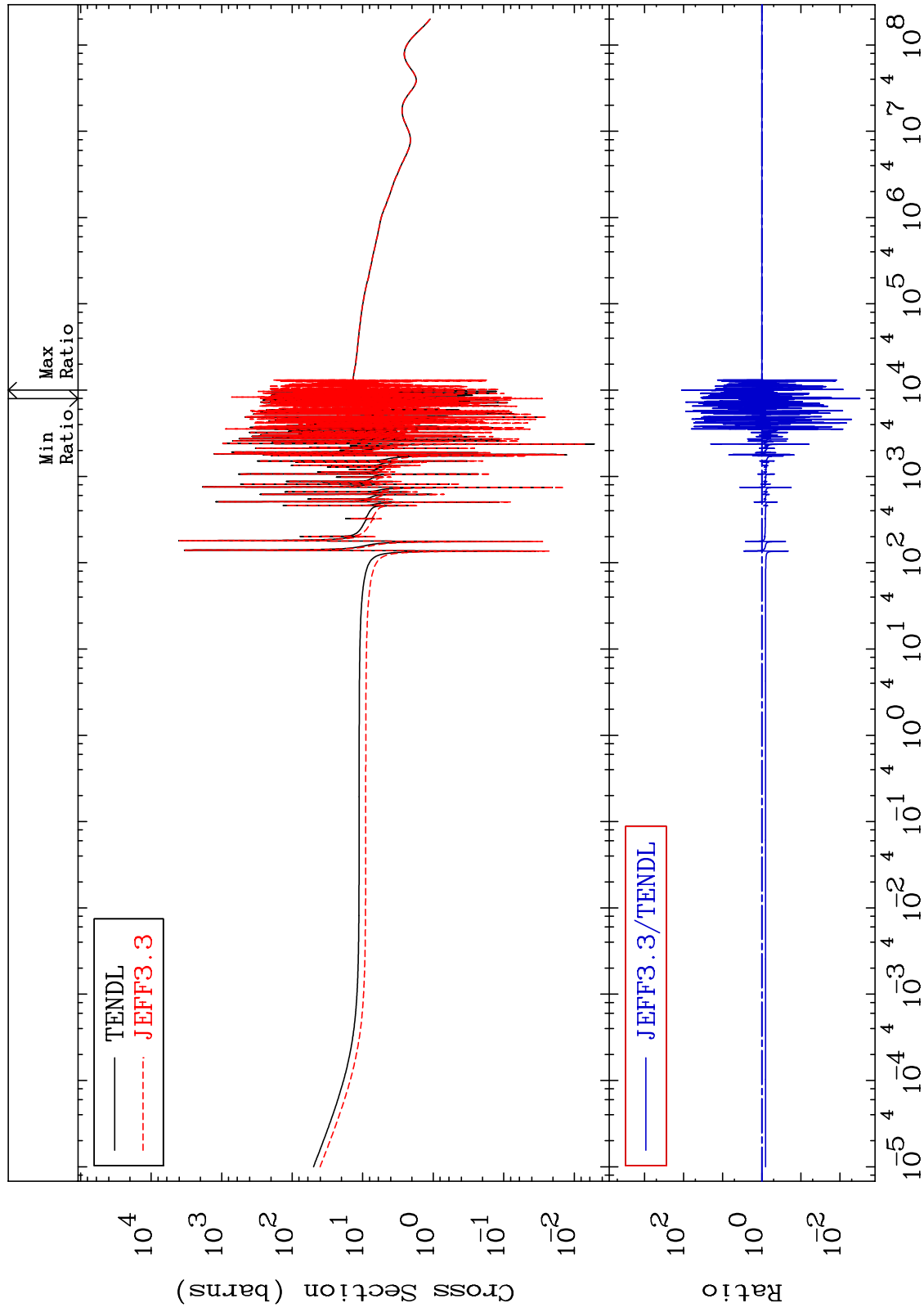
Incident Energy (eV)

70-Yb-172

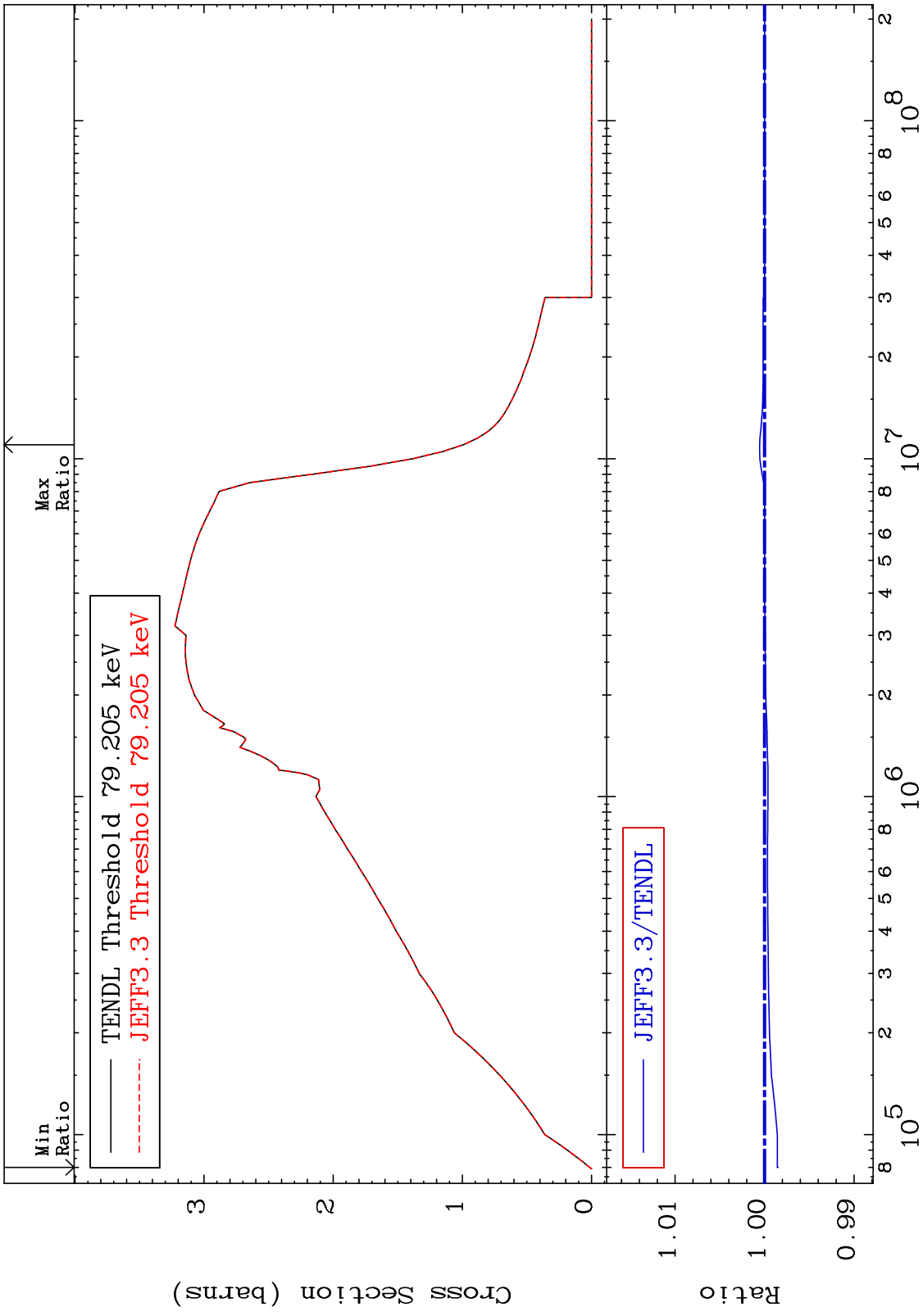
MAT 7037

Elastic
Cross Section

70-Yb-172
-99.69 To 9999. %

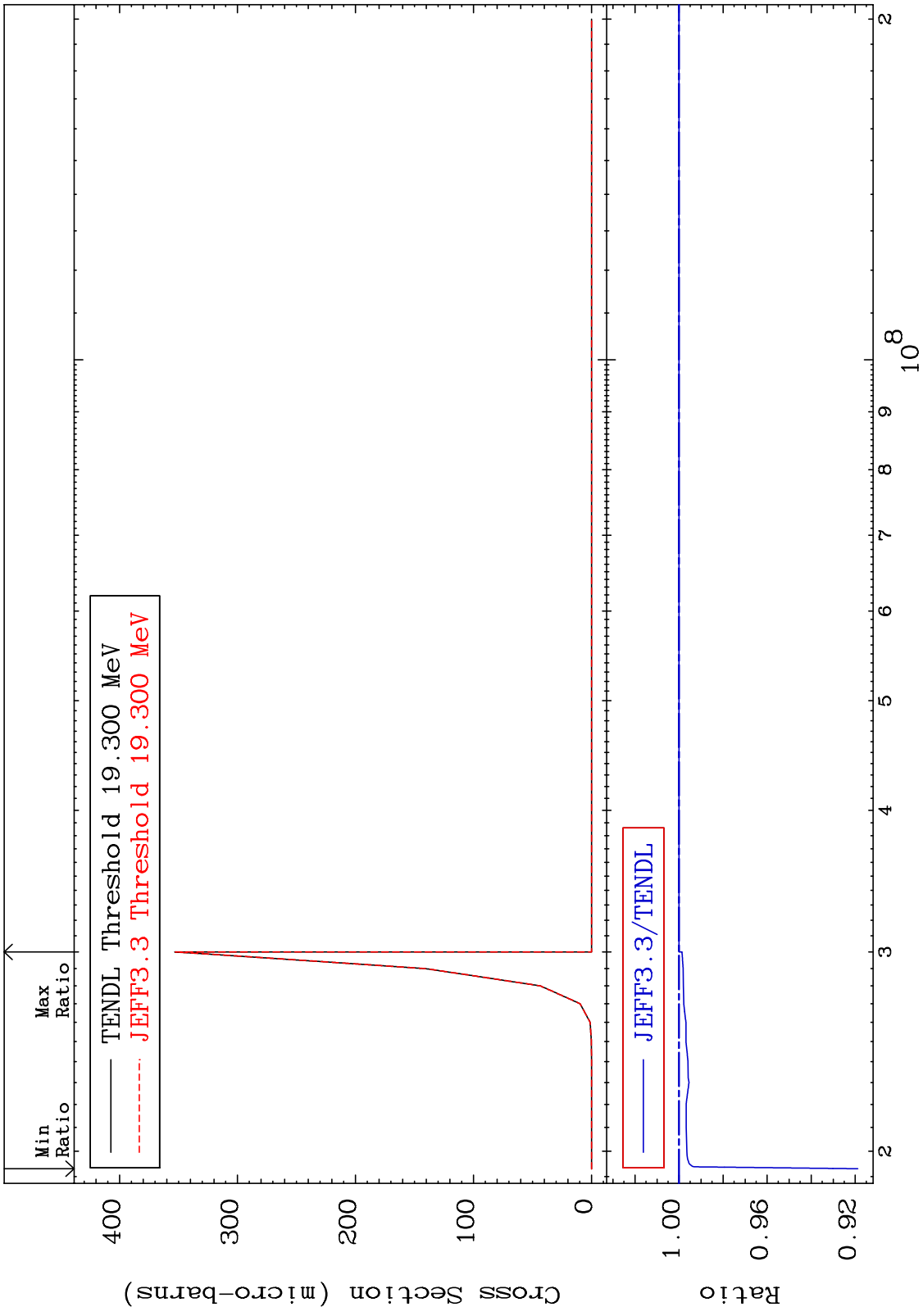


MAT 7037 Inelastic Cross Section 70-Yb-172 -0.142 To 0.056 %

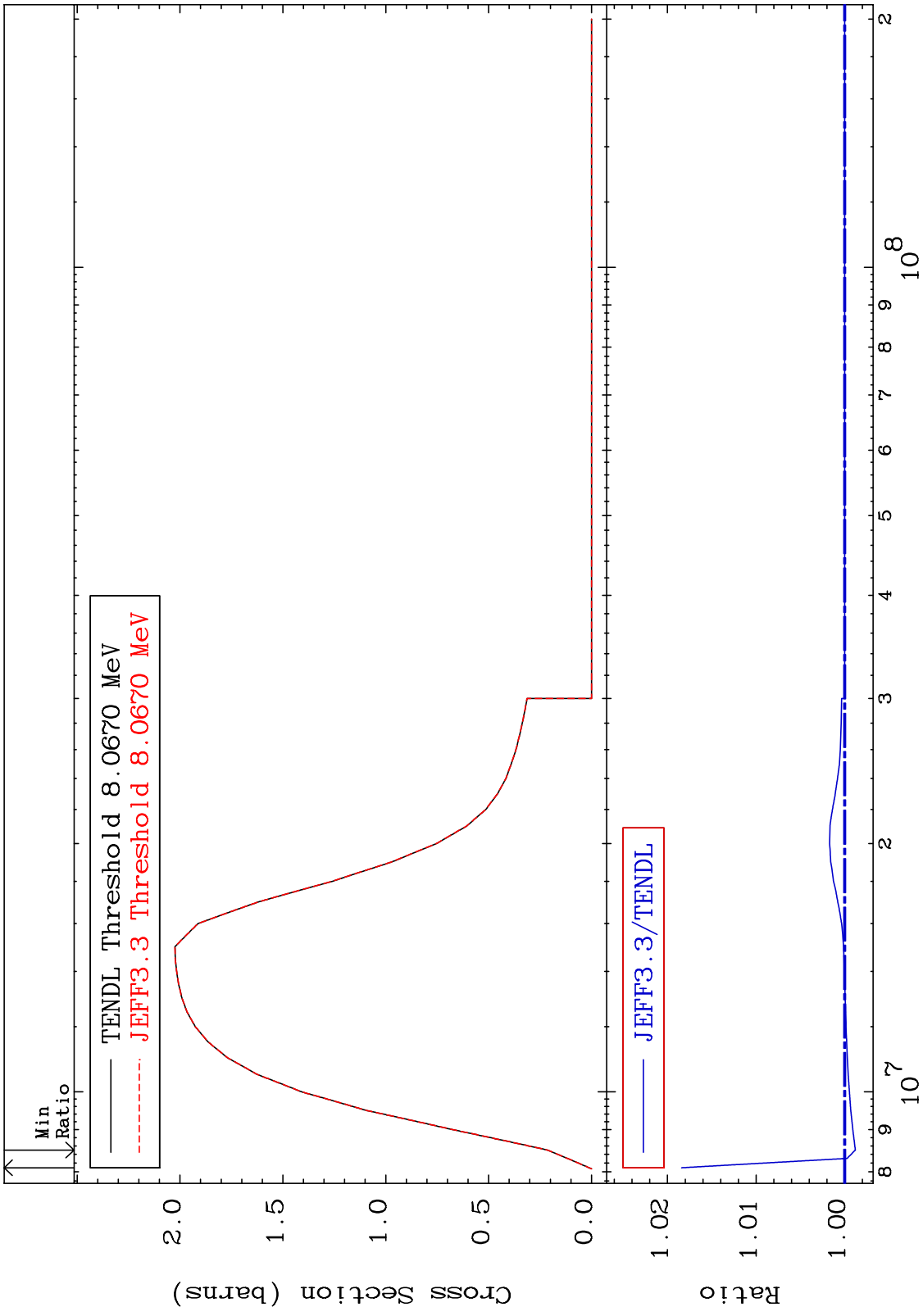


3 8 10⁵ 2 3 4 5 6 8 10⁶ 2 3 4 5 6 8 10⁷ 2 3 4 5 6 8 10⁸ 2

MAT 7037 (n,2n) d 70-Yb-172
 Cross Section -8.118 To 0.000 %

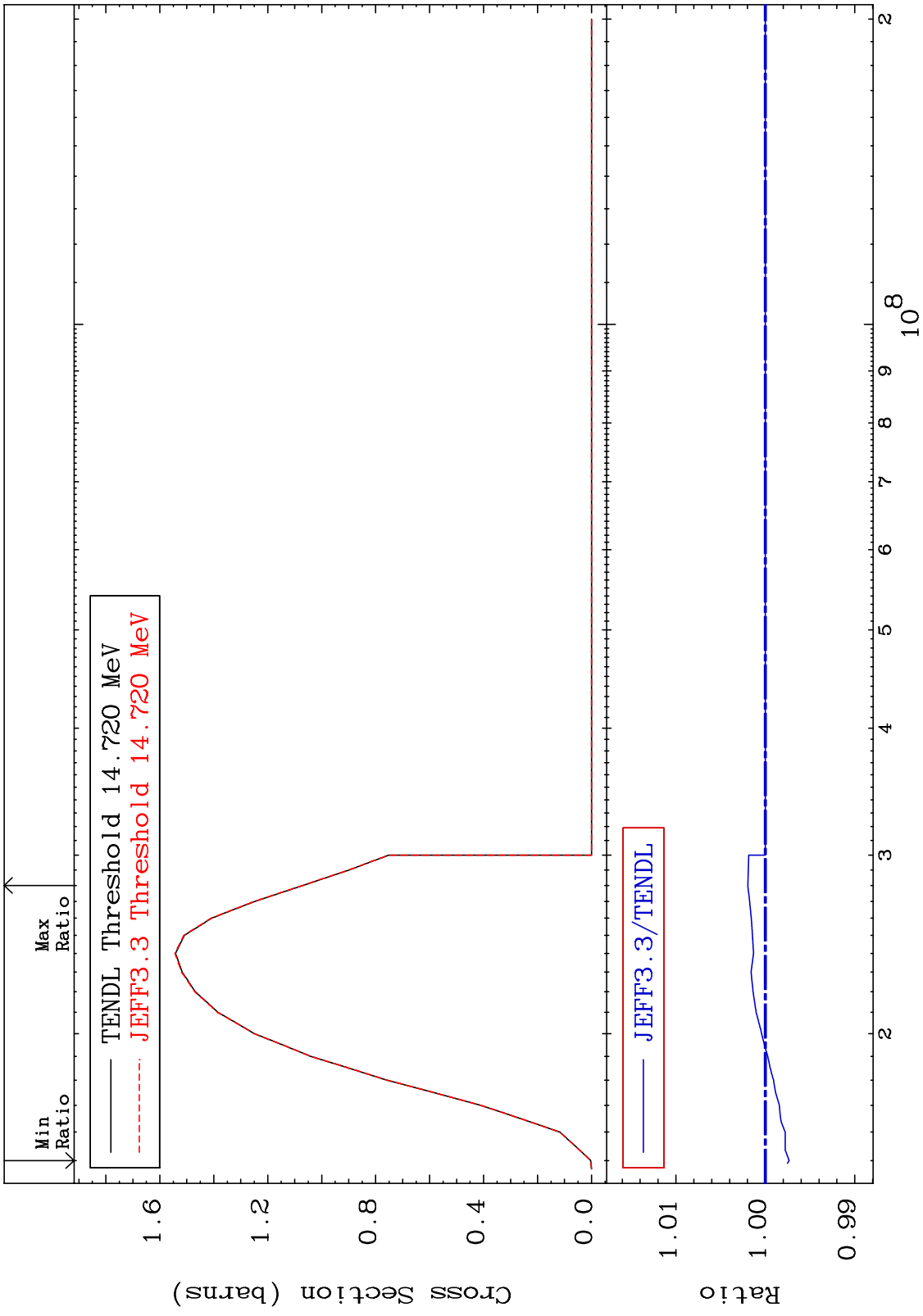


MAT 7037 (n,2n) Cross Section 70-Yb-172 -0.119 To 1.841 %



70-Yb-172 Incident Energy (eV)

MAT 7037 70-Yb-172
-0.265 To 0.196 %
 (n,3n)
 Cross Section



6 70-Yb-172
 Incident Energy (eV)

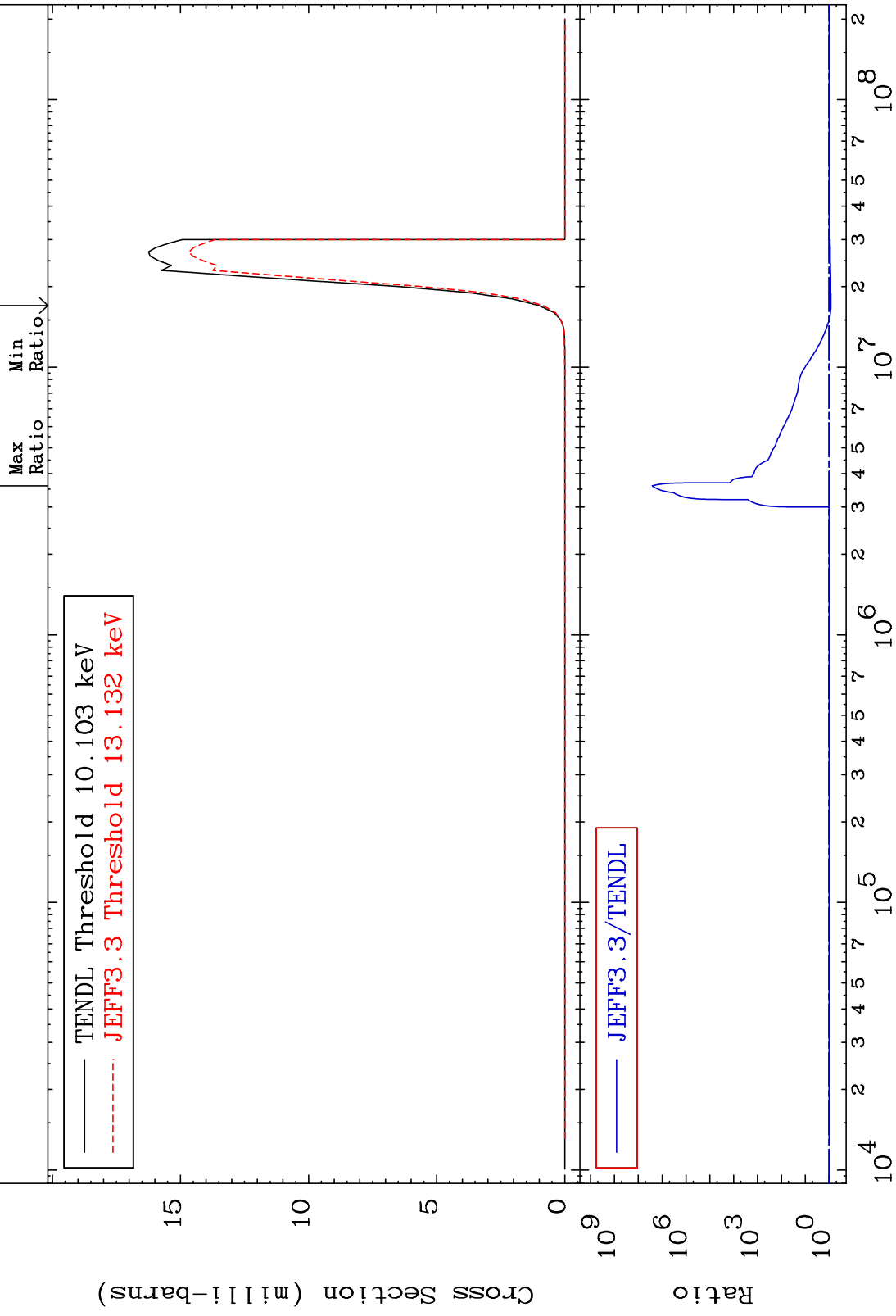
MAT 7037

$(n, n') \alpha$

70-Yb-172

-15.97 To 9999. %

Cross Section



70-Yb-172

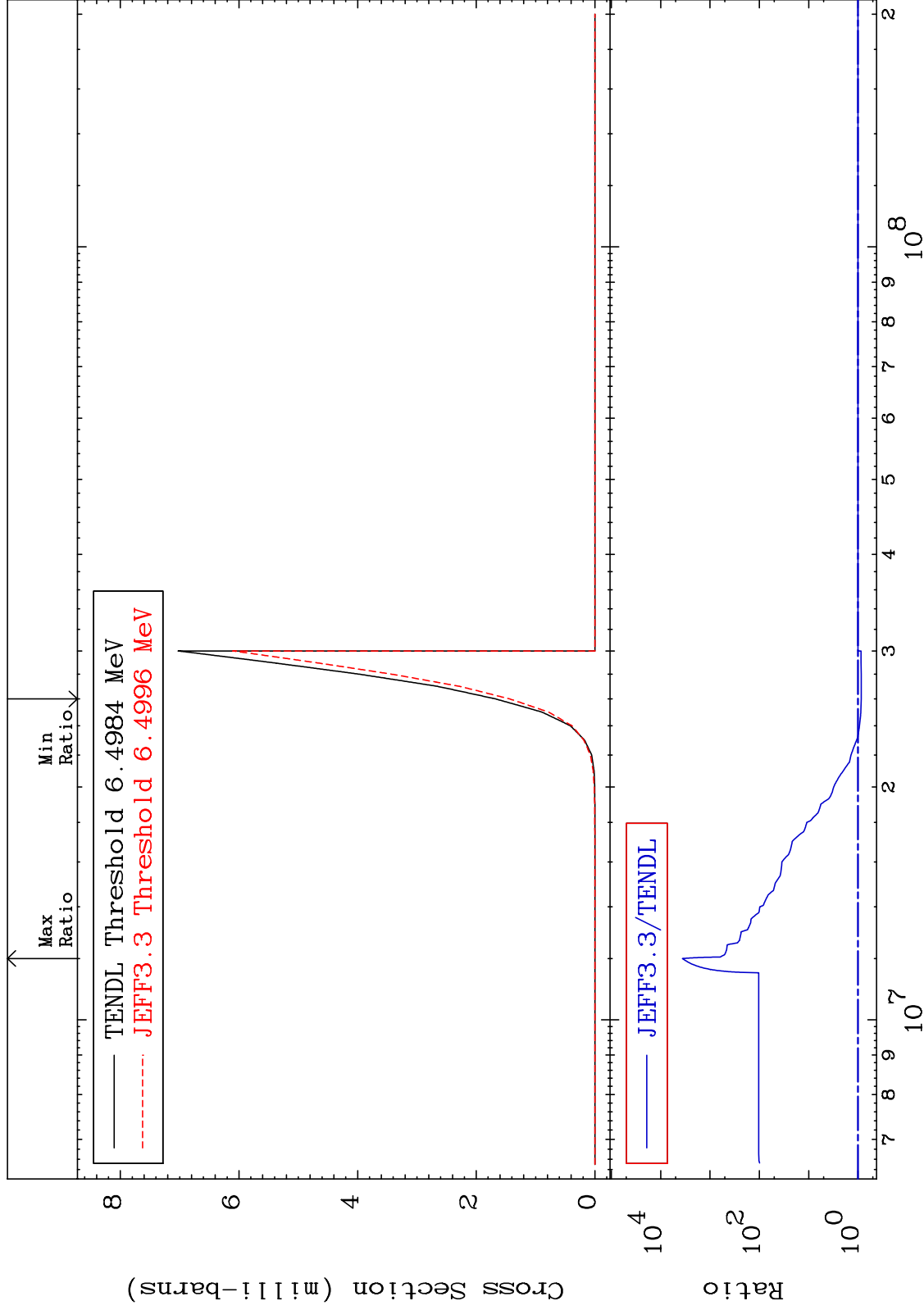
MAT 7037

(n,2n) α

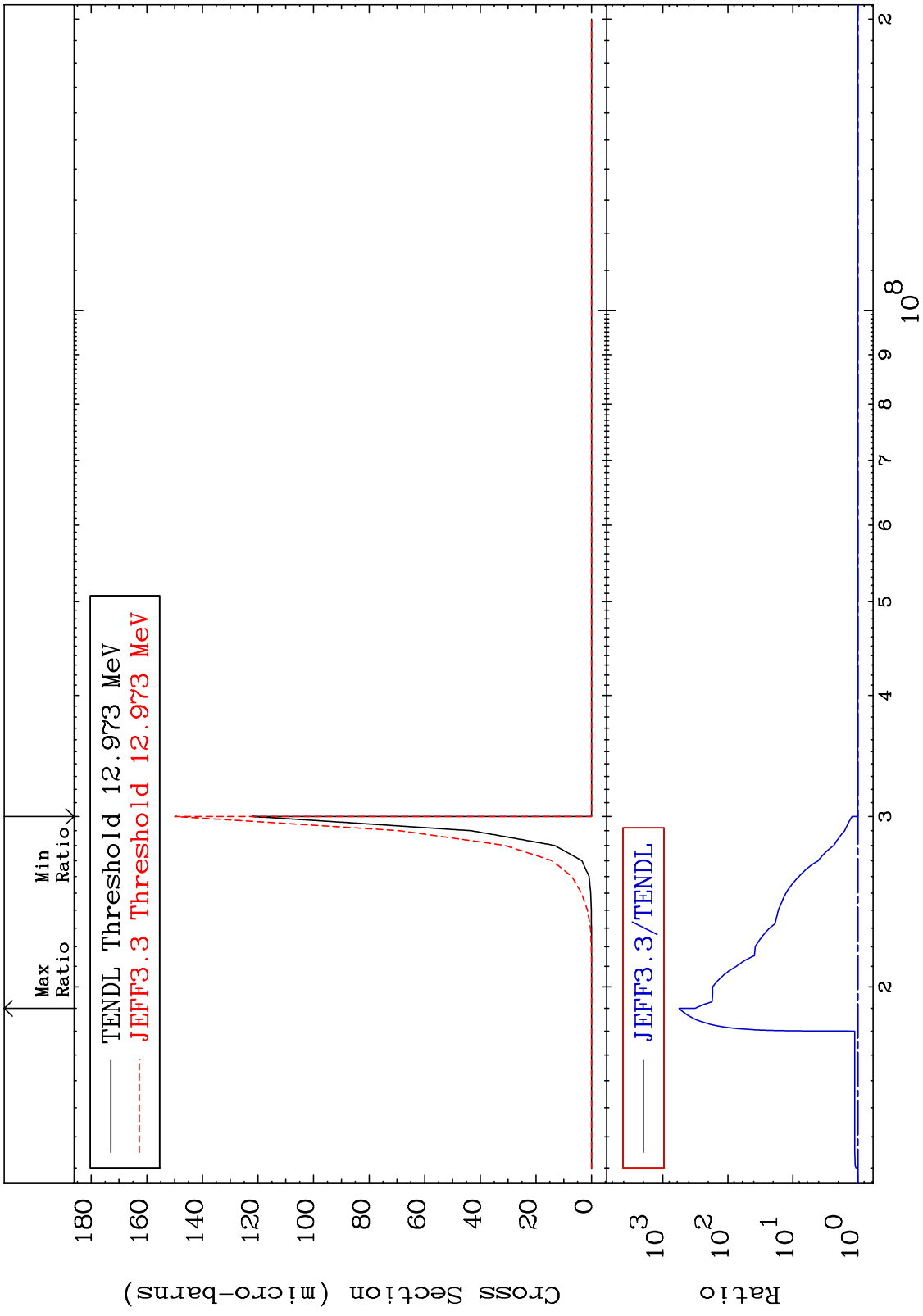
70-Yb-172

-14.14 To 9999. %

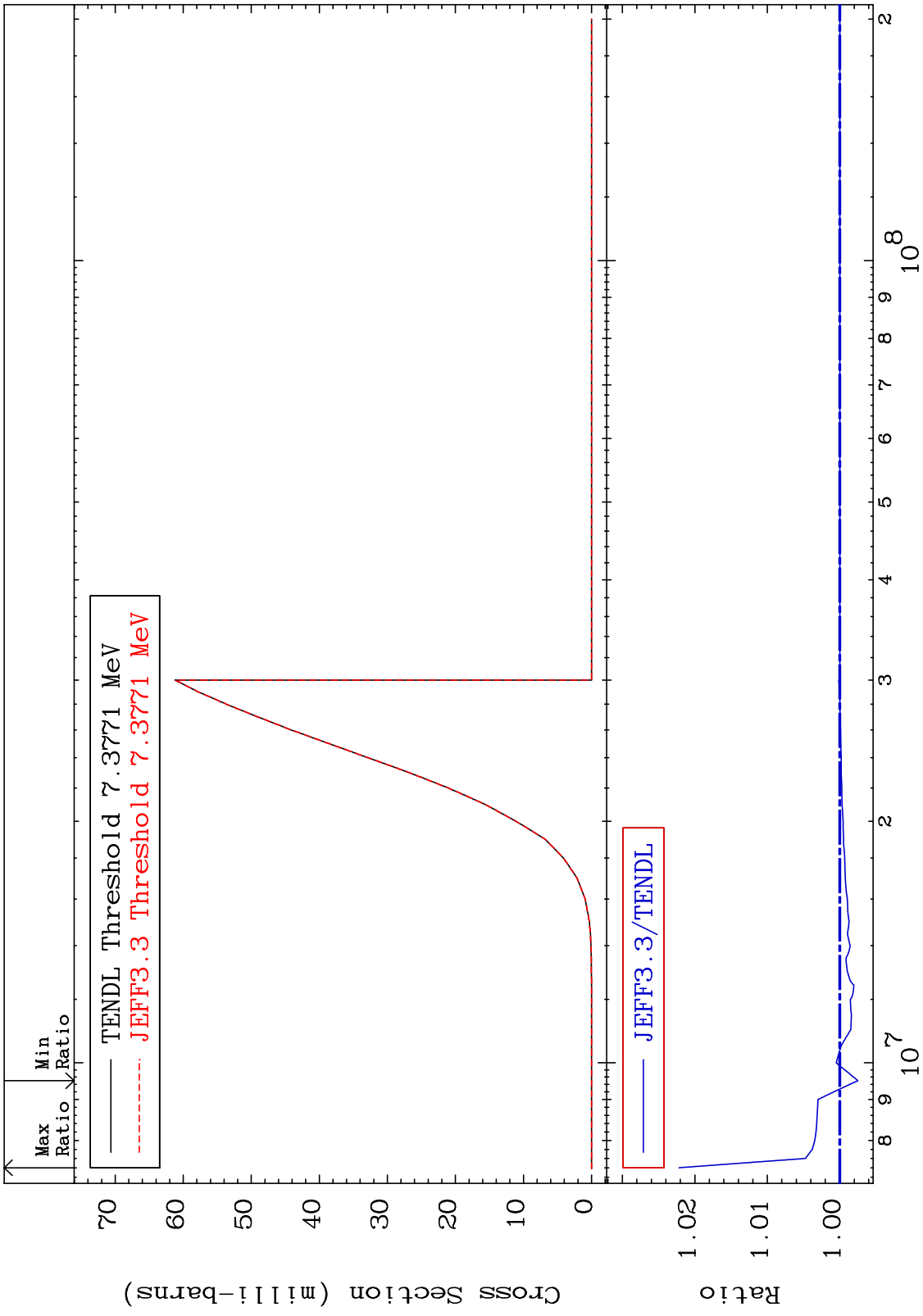
Cross Section



MAT 7037 $(n, 3n) \alpha$ 70-Yb-172
 Cross Section 0.000 To 9999. %

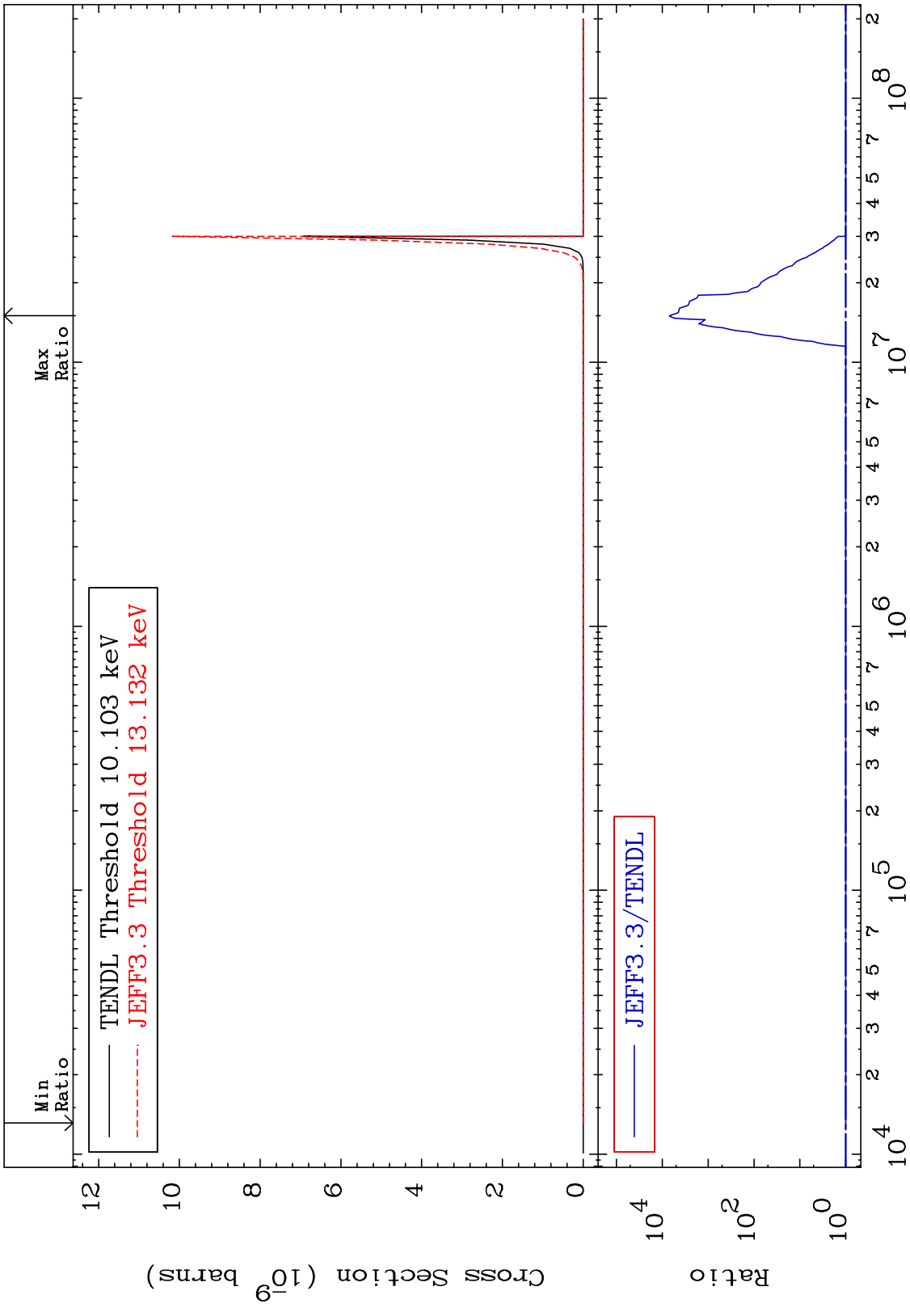


MAT 7037 (n, n') p 70-Yb-172
 Cross Section -0.249 To 2.218 %

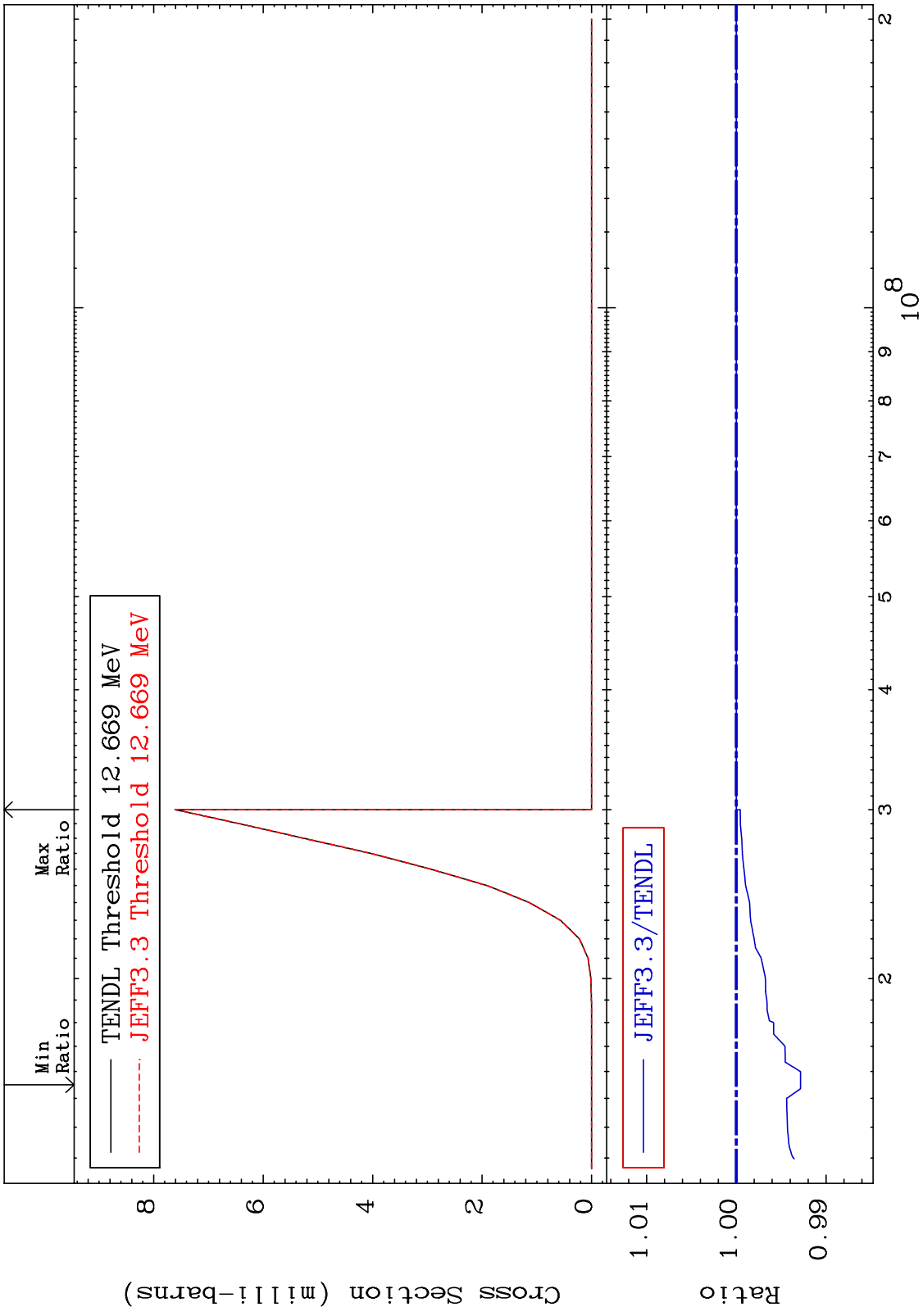


70-Yb-172 Incident Energy (eV)

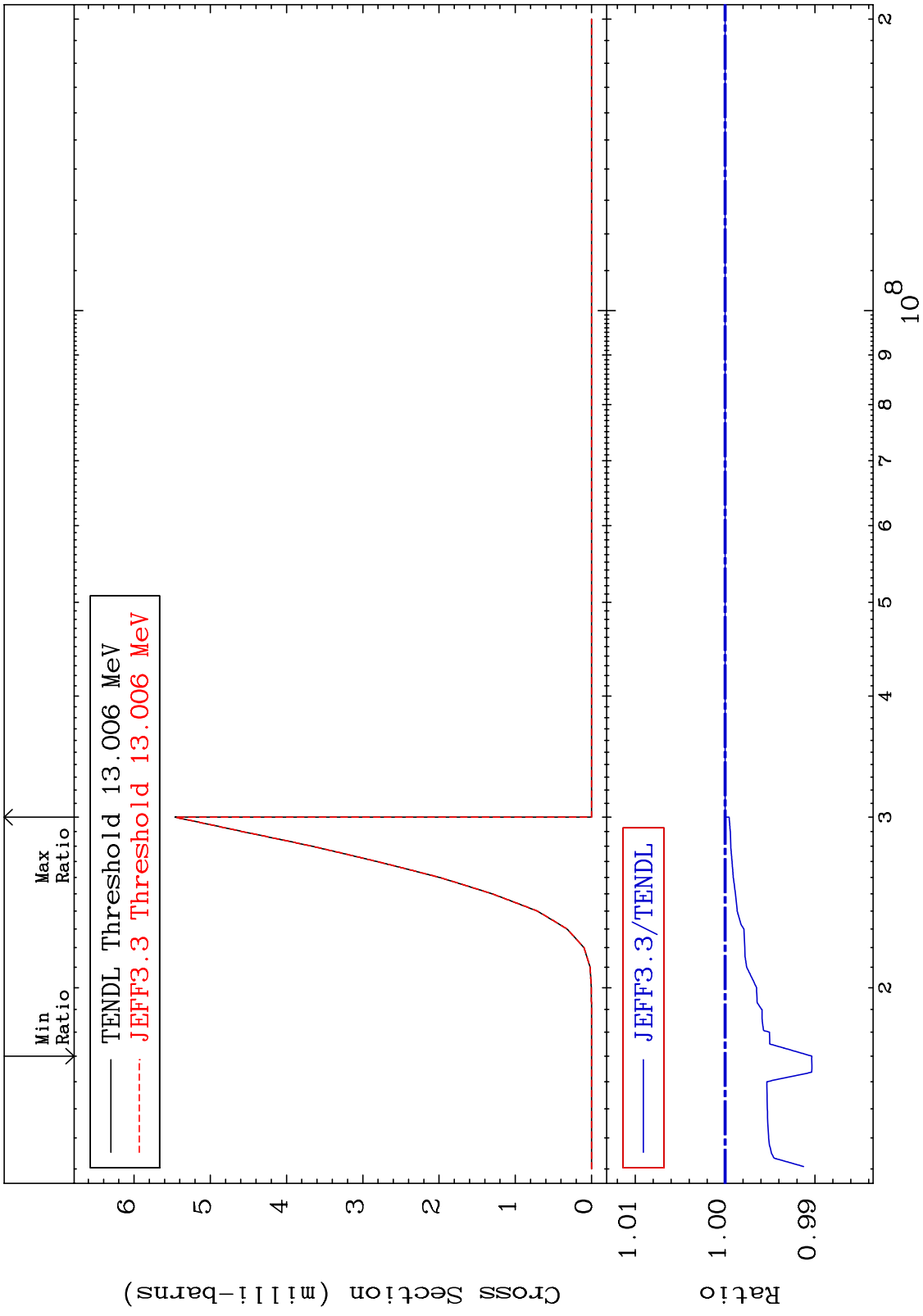
MAT 7037 (n,n') 2α Cross Section 70-Yb-172 To 9999. %



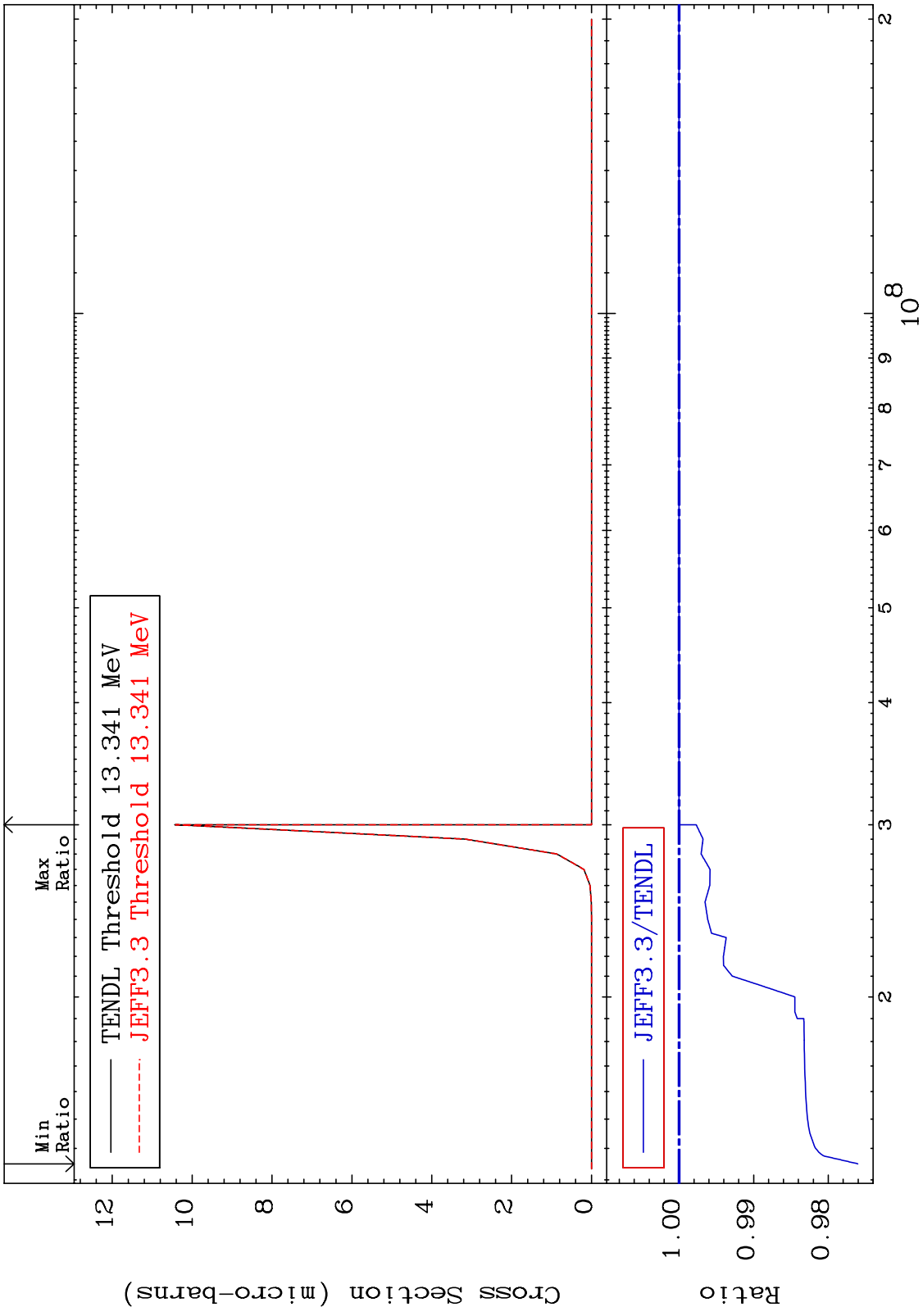
MAT 7037 $(n, n') d$ 70-Yb-172
 Cross Section -0.716 To 0.000 %



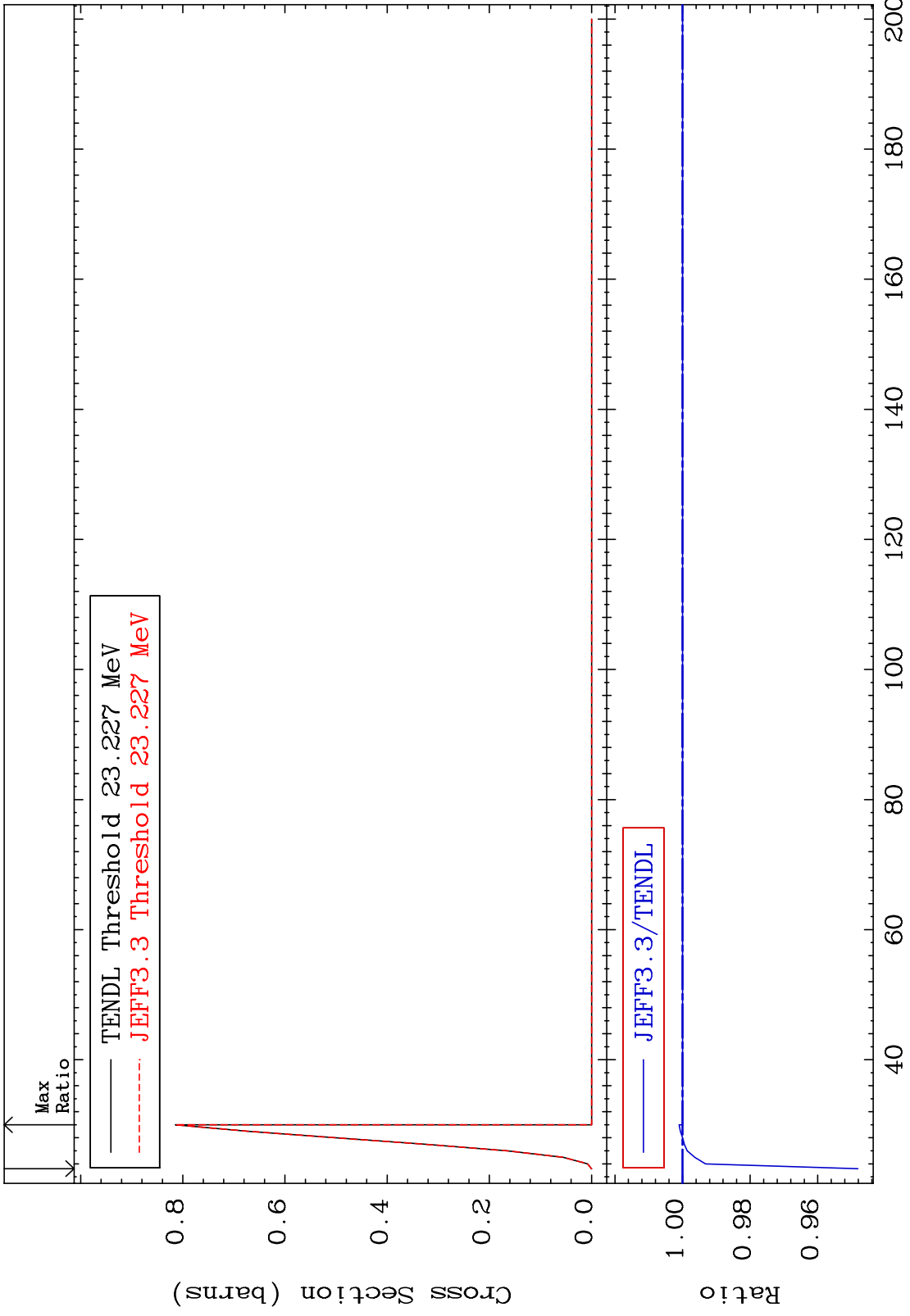
MAT 7037 (n, n') t $^{70}\text{Yb-172}$
 Cross Section -0.965 To 0.000 %



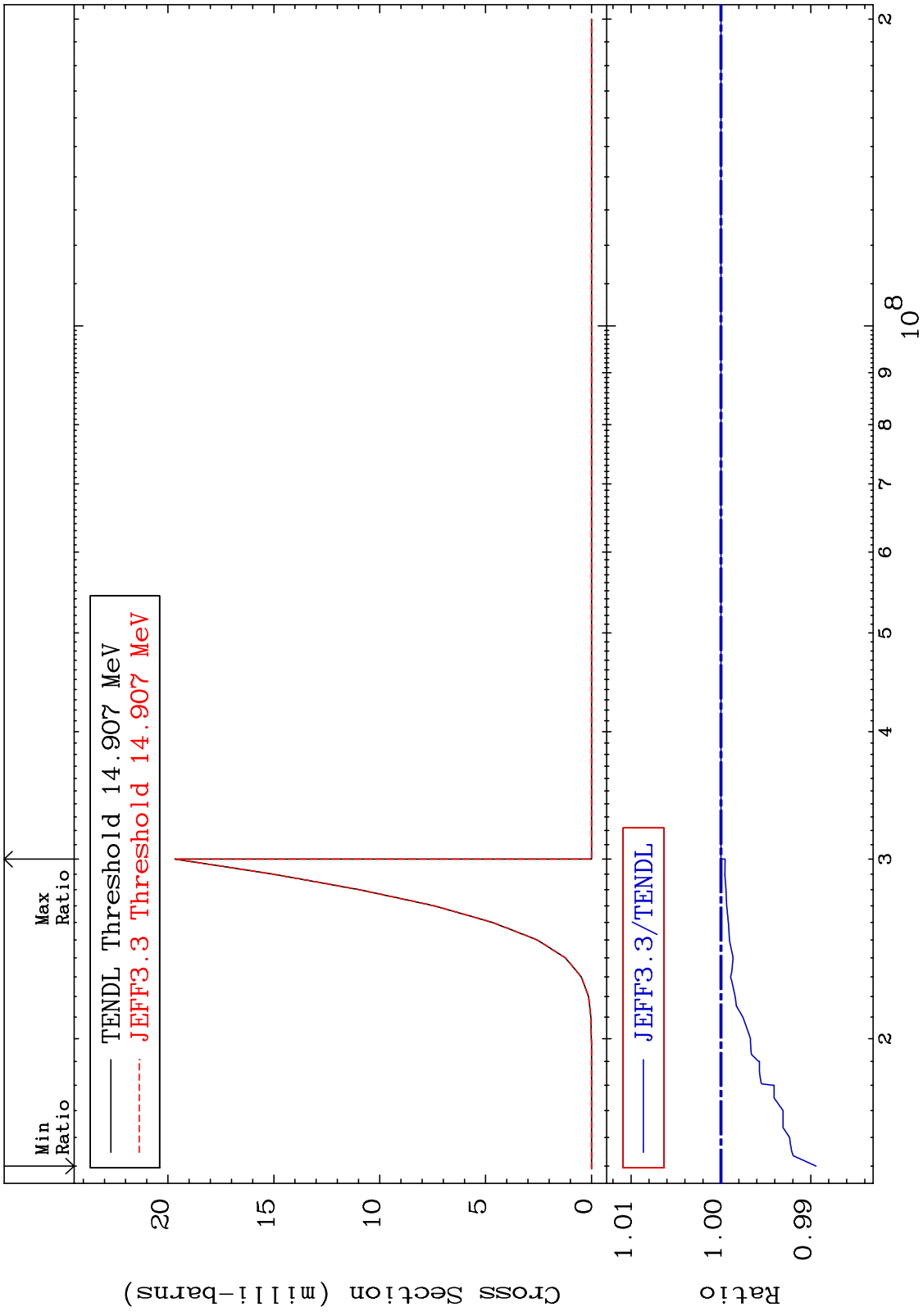
MAT 7037 (n, n') He-3 70-Yb-172
 Cross Section -2.396 To 0.000 %



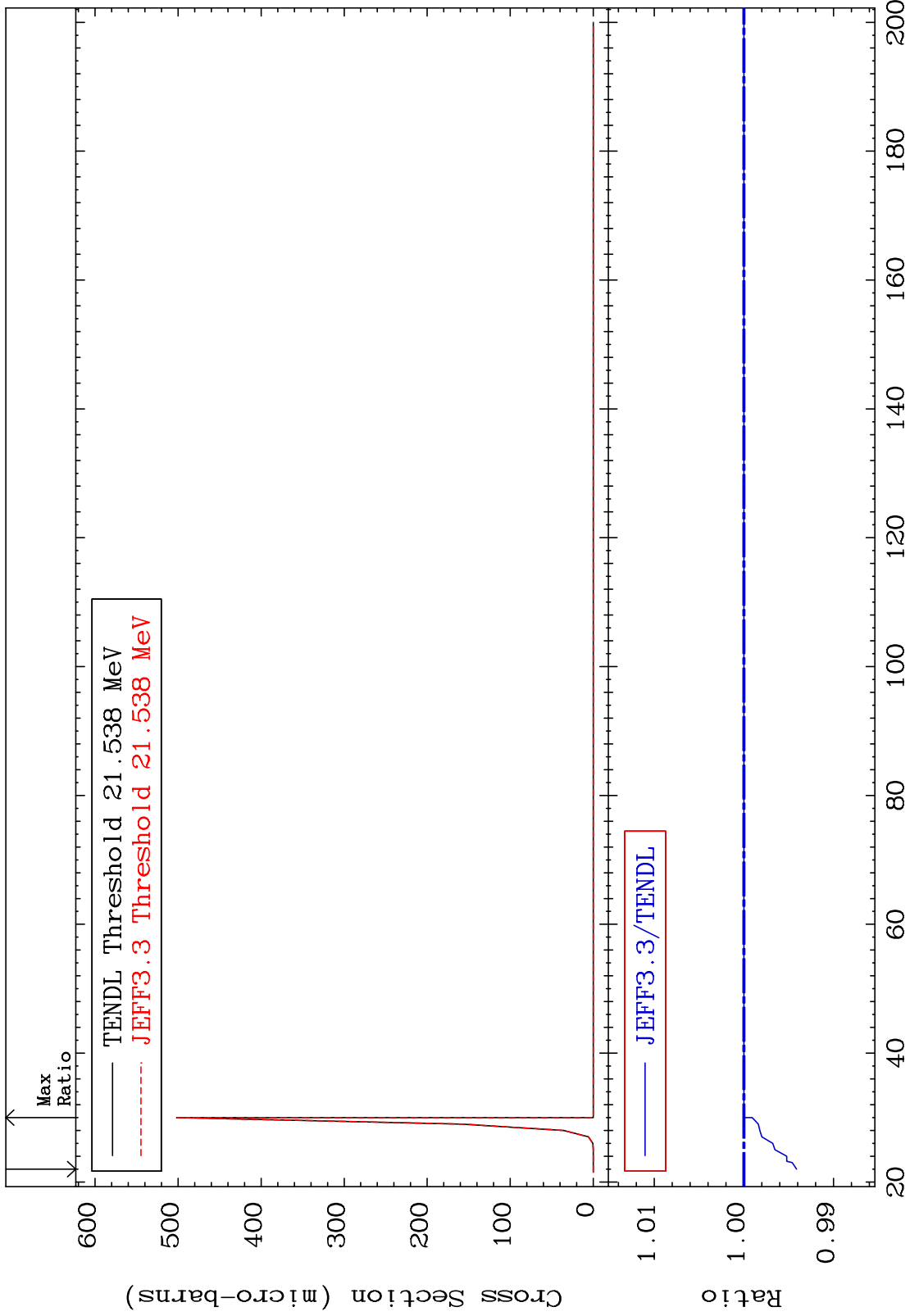
MAT 7037 (n,4n) Cross Section 70-Yb-172 -5.189 To 0.101 %



MAT 7037 (n,2n) p 70-Yb-172
 Cross Section -1.058 To 0.000 %

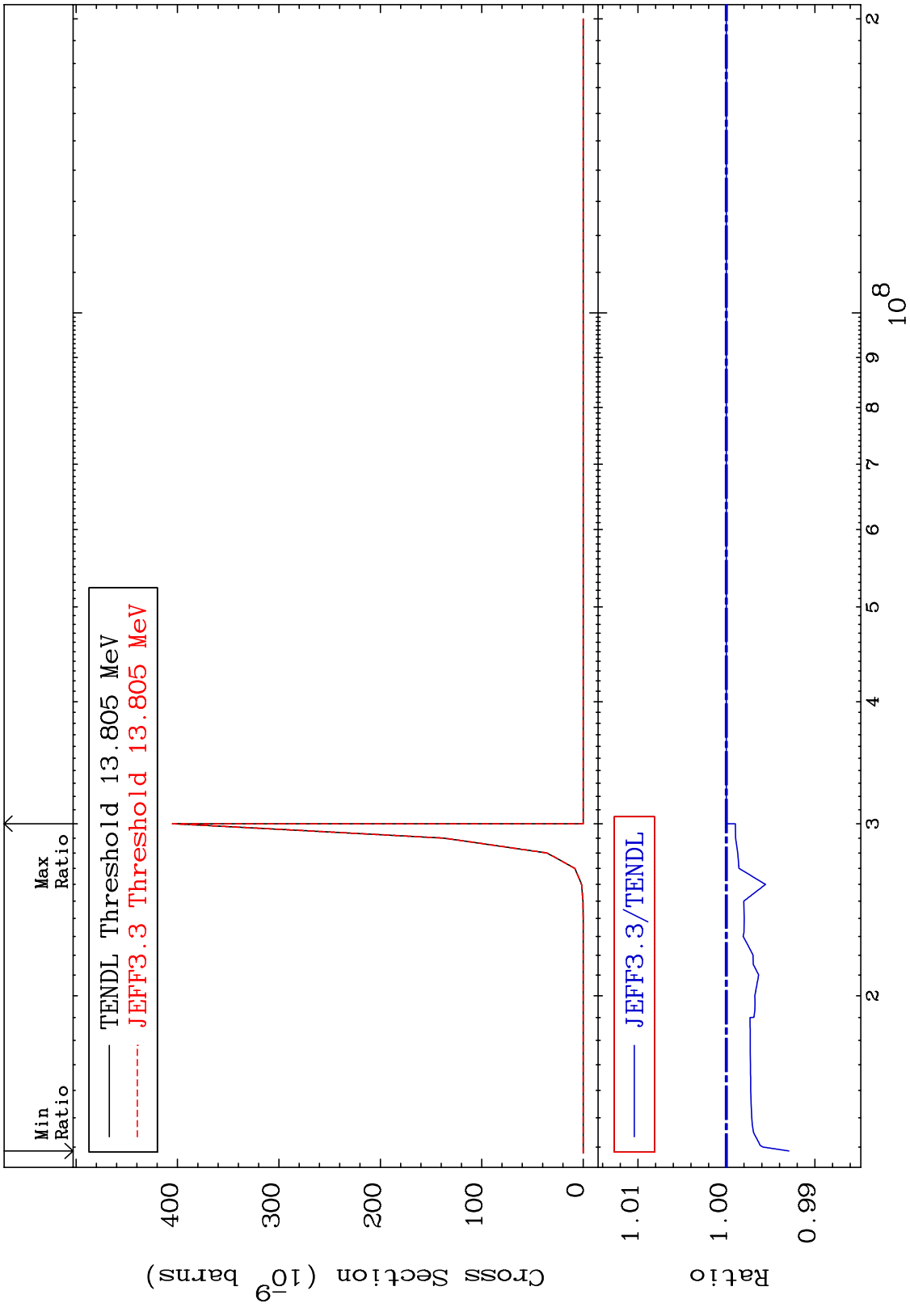


MAT 7037 (n,3n) p 70-Yb-172
Cross Section -0.586 To 0.000 %

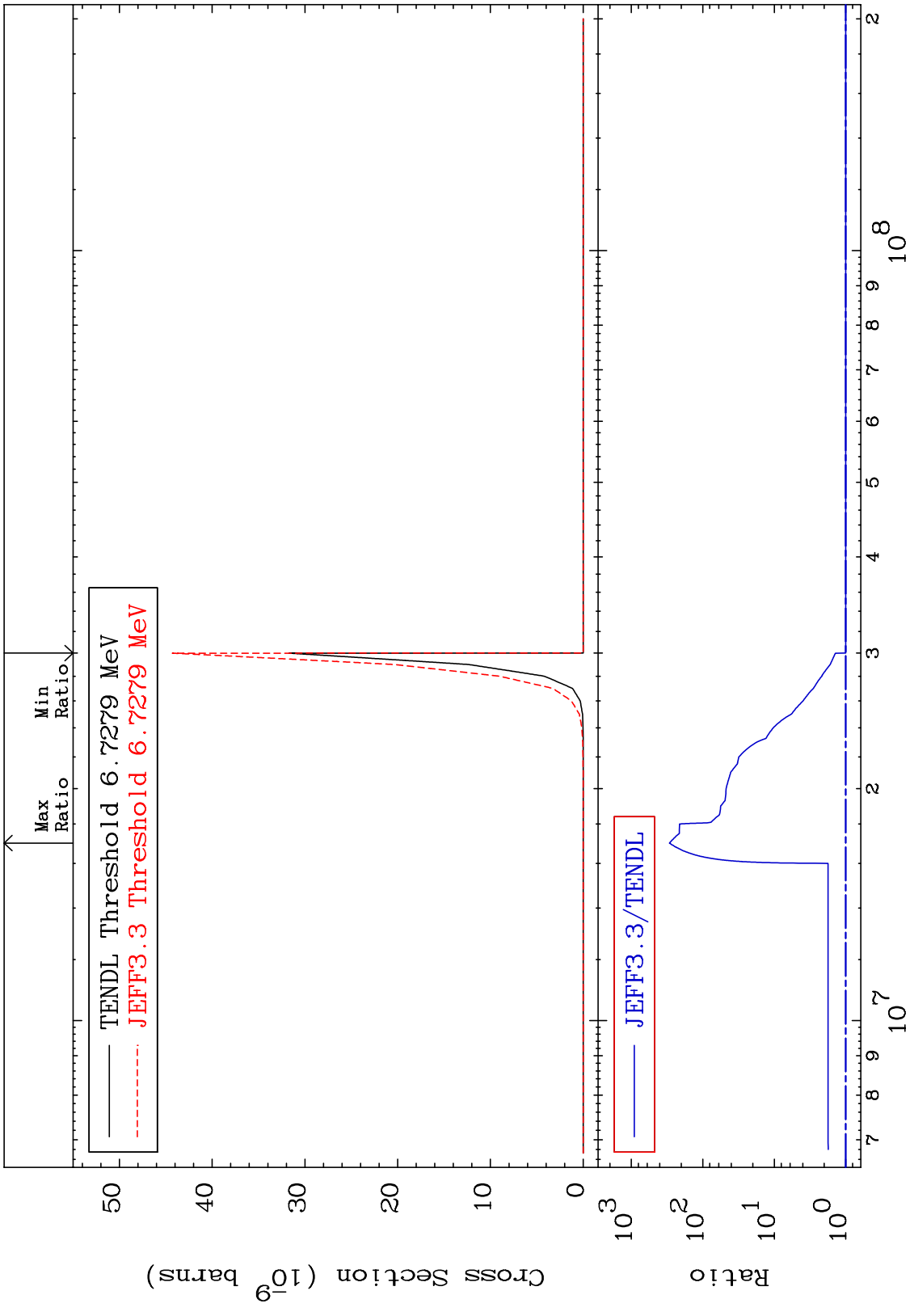


17 70-Yb-172

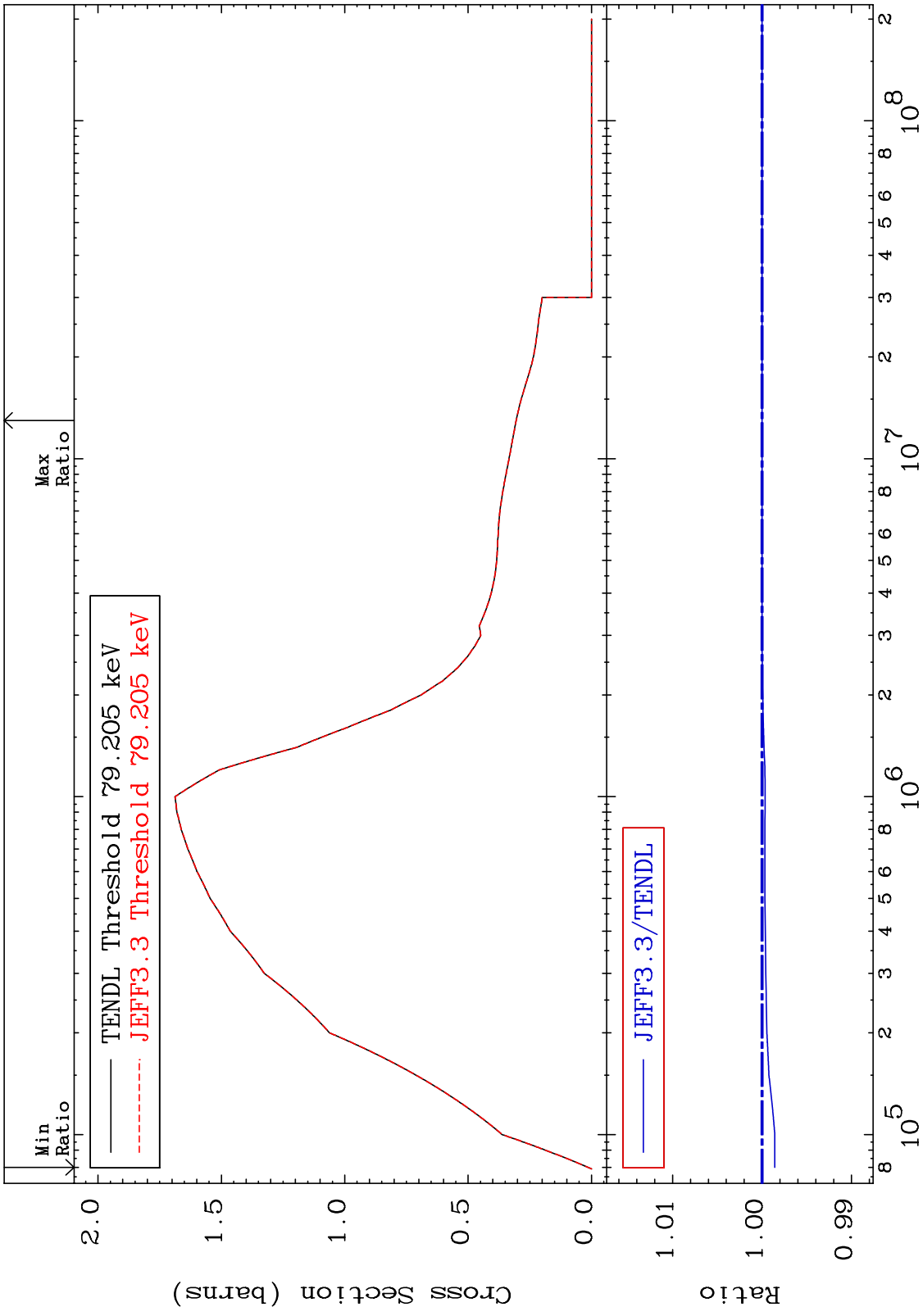
MAT 7037 (n,2n) p 70-Yb-172
 Cross Section -0.706 To 0.000 %



MAT 7037 (n, n') p α Cross Section 70-Yb-172 To 9999. %

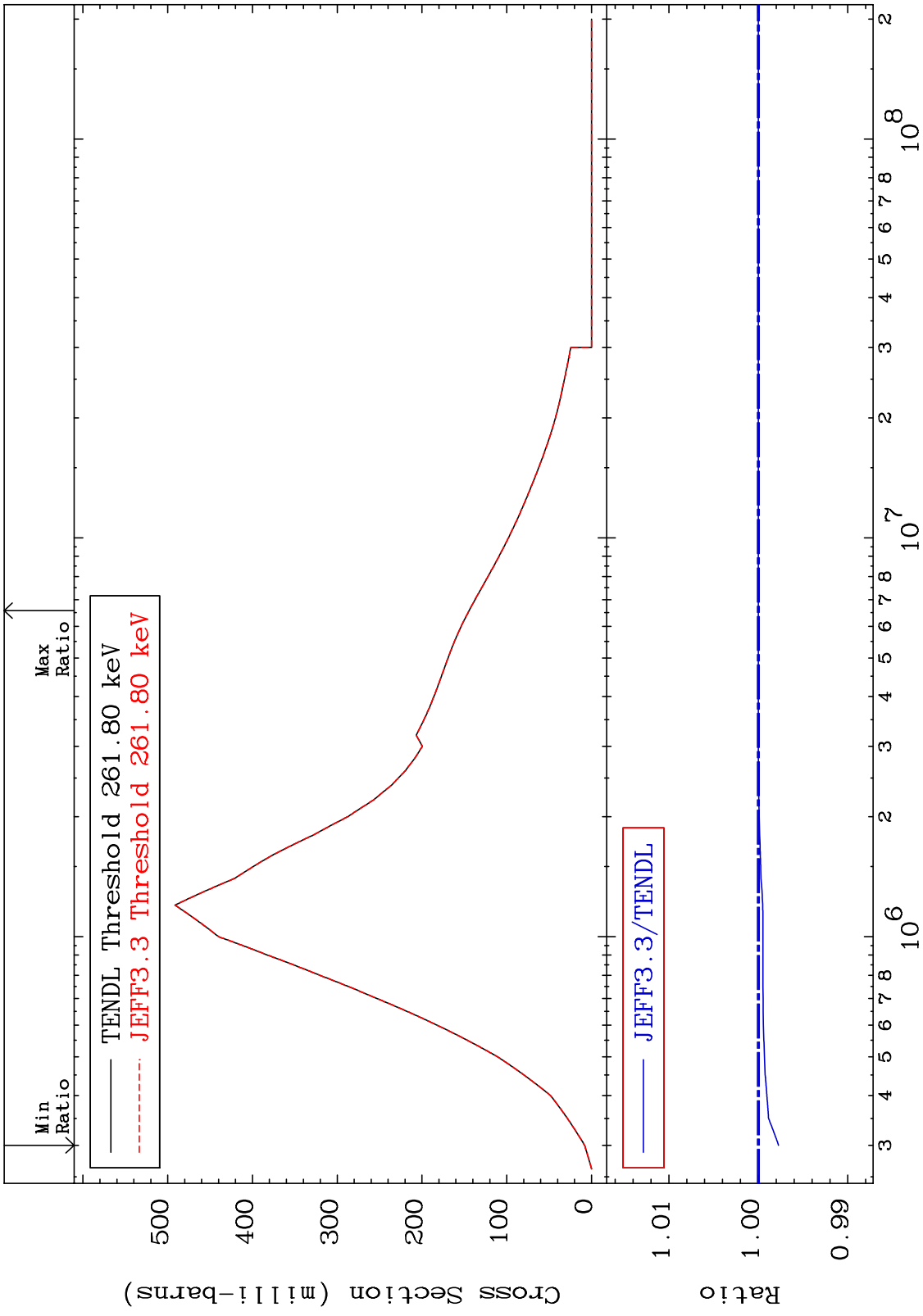


MAT 7037 MT= 51 (n,n') Level Cross Section 70-Yb-172 -0.142 To 0.000 %



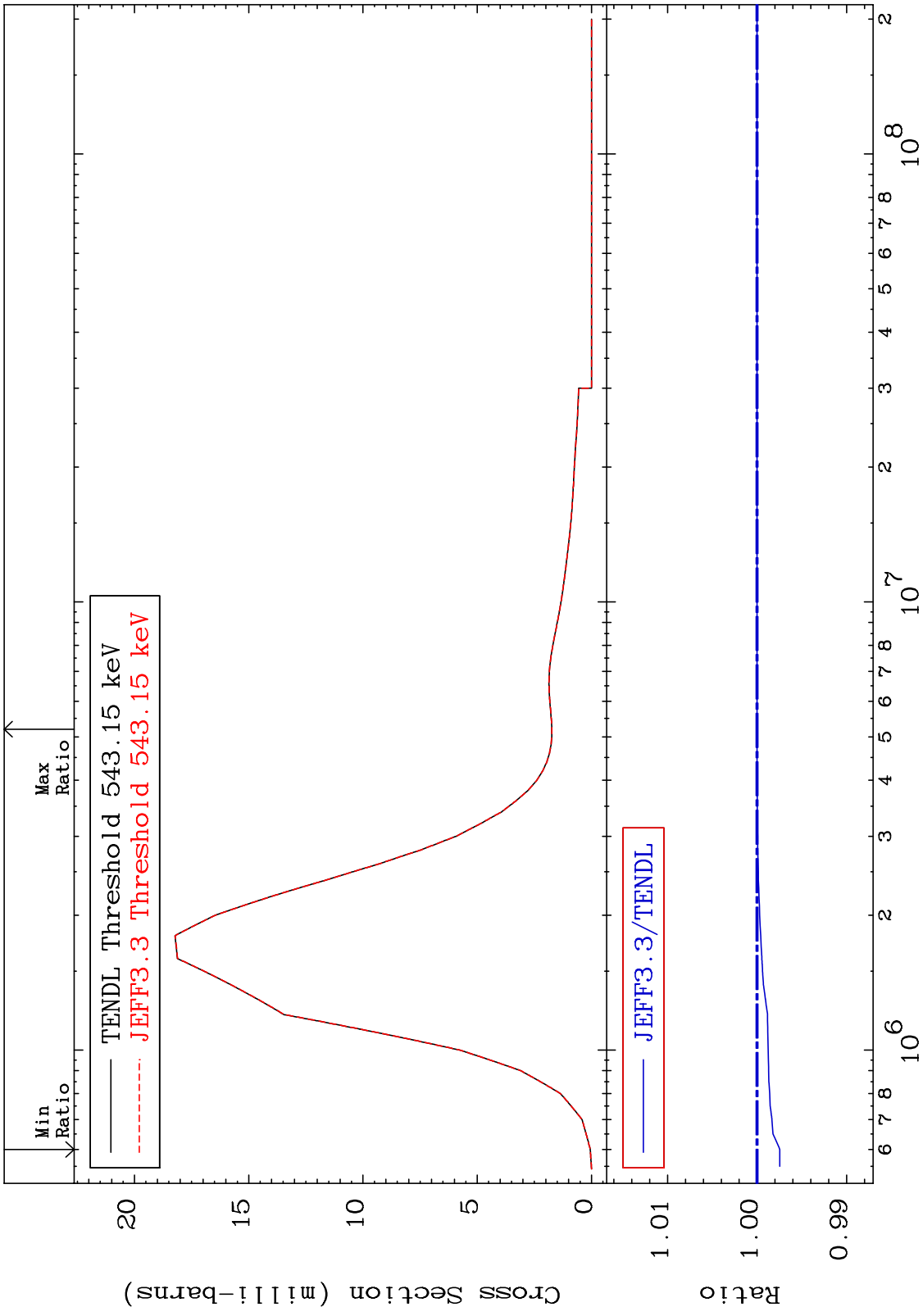
20 Incident Energy (eV) 70-Yb-172

MAT 7037 MT= 52 (n,n') Level Cross Section 70-Yb-172
 -0.226 To 0.000 %

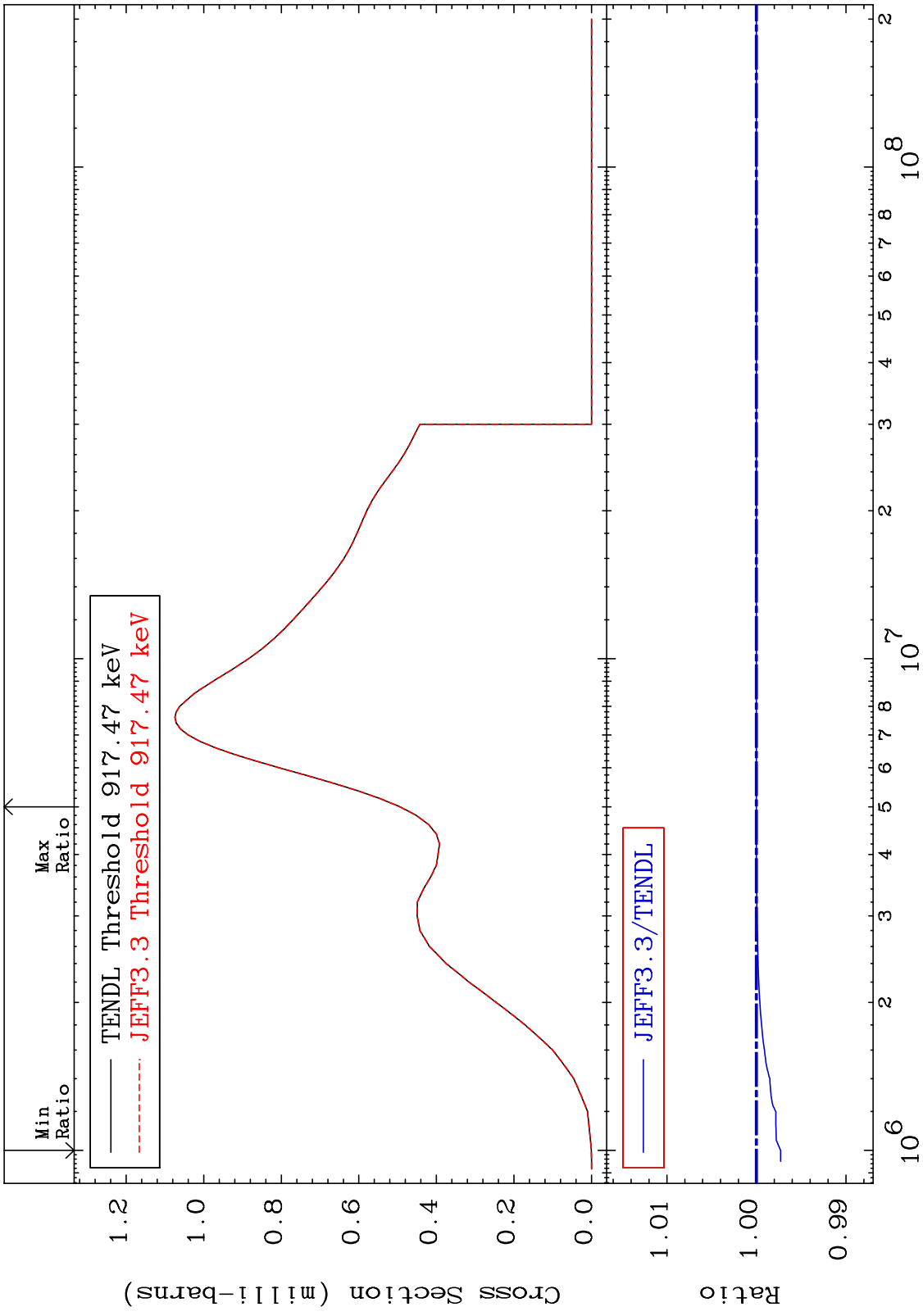


21 Incident Energy (eV) 70-Yb-172

MAT 7037 MT= 53 (n,n') Level Cross Section -0.254 To 0.000 % 70-Yb-172

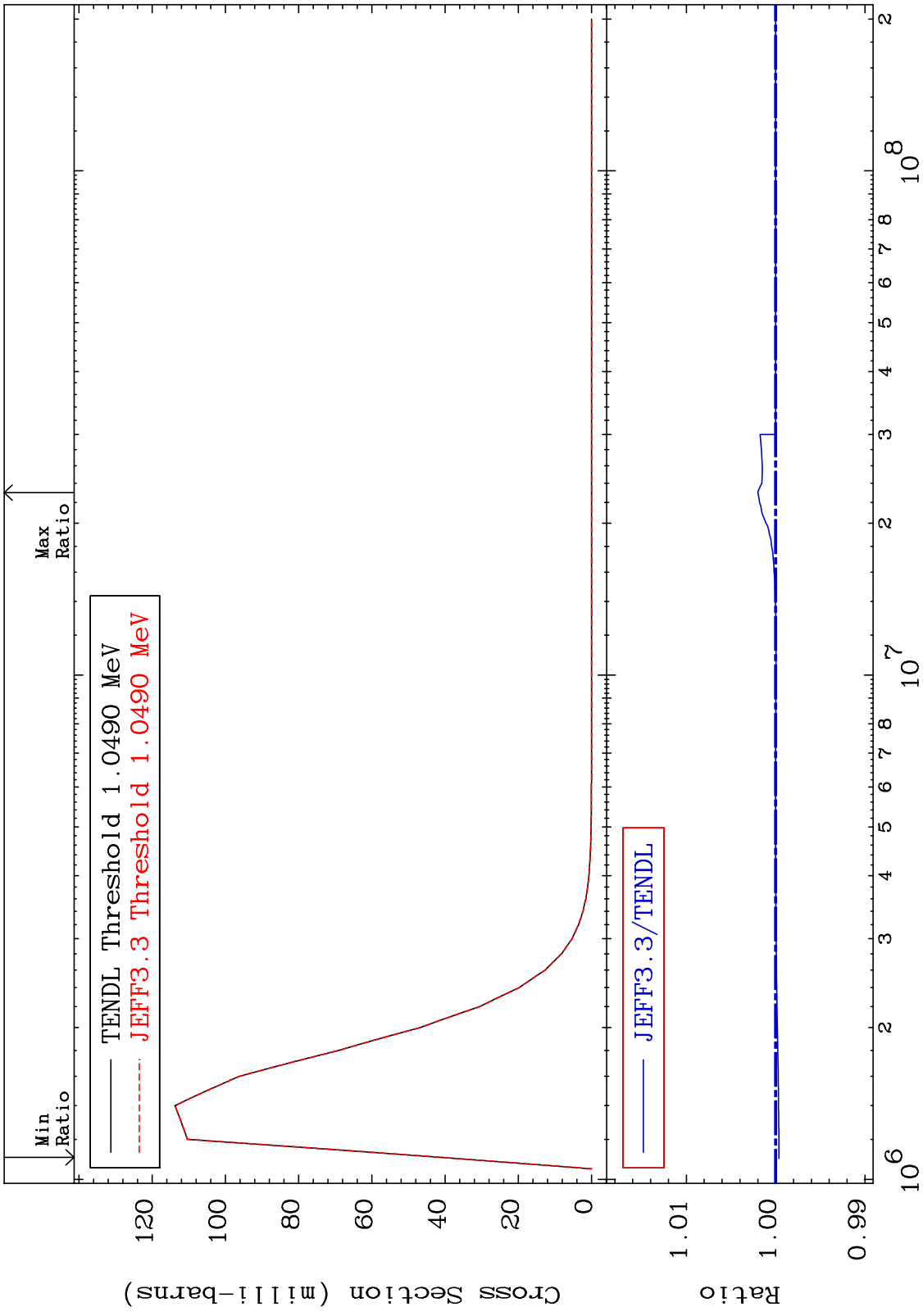


MAT 7037 MT= 54 (n,n') Level Cross Section 70-Yb-172 -0.270 To 0.000 %

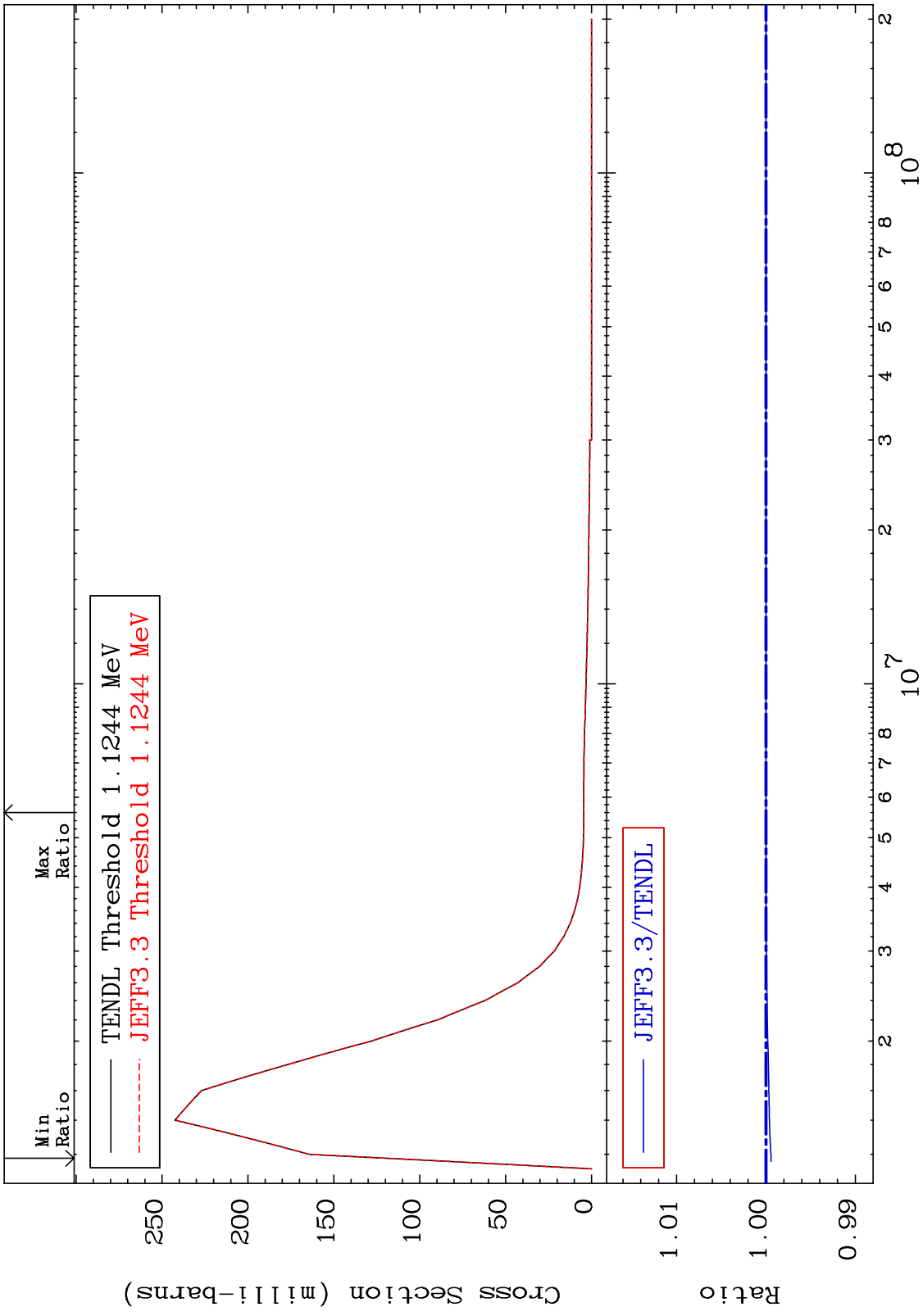


Incident Energy (eV) 70-Yb-172

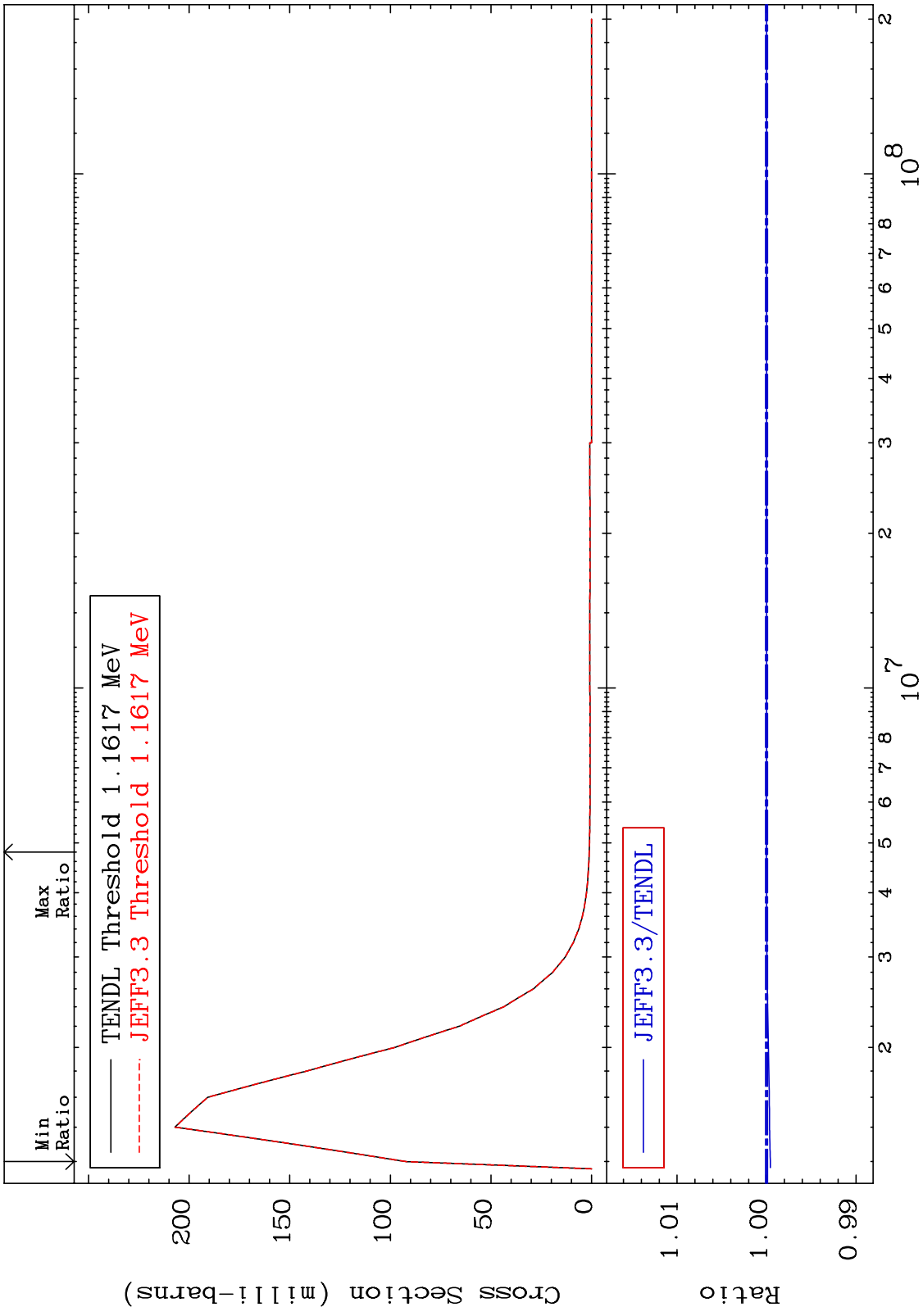
MAT 7037 MT= 55 (n,n') Level Cross Section 70-Yb-172
 -0.036 To 0.198 %



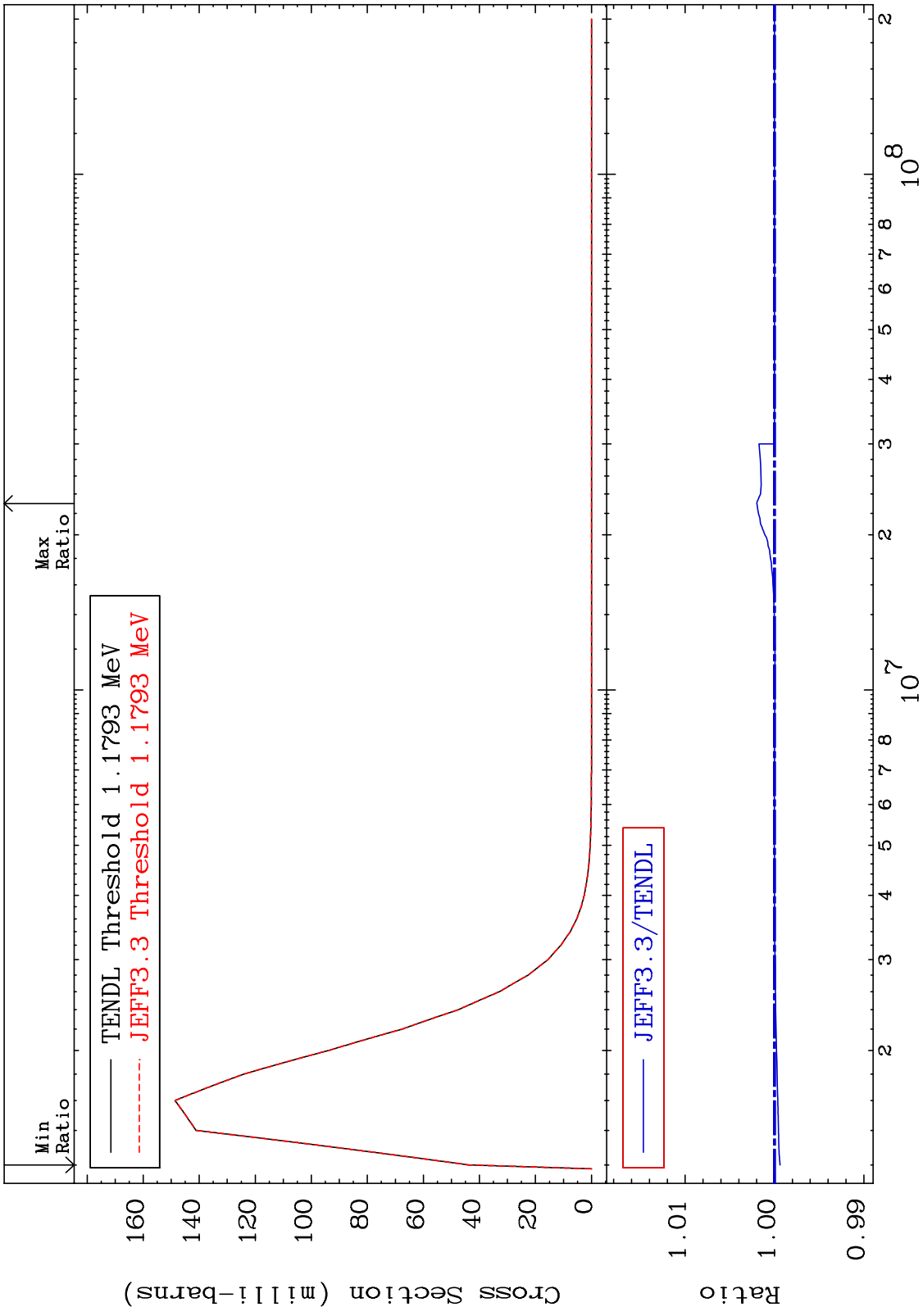
MAT 7037 MT= 56 (n,n') Level Cross Section 70-Yb-172 -0.055 To 0.000 %



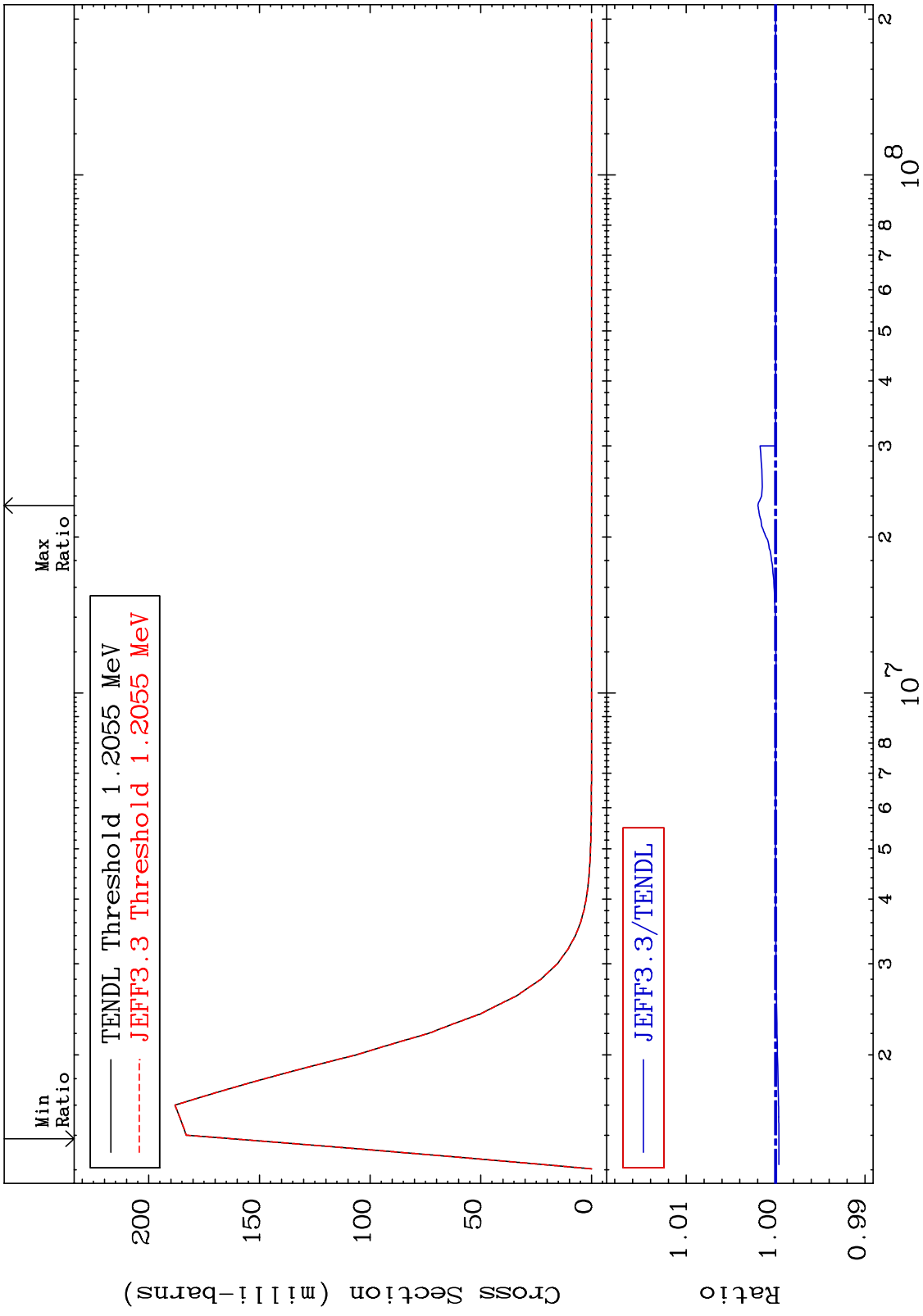
MAT 7037 MT= 57 (n,n') Level Cross Section 70-Yb-172
 -0.044 To 0.000 %



MAT 7037 MT= 58 (n, n') Level Cross Section -0.062 To 0.197 % 70-Yb-172

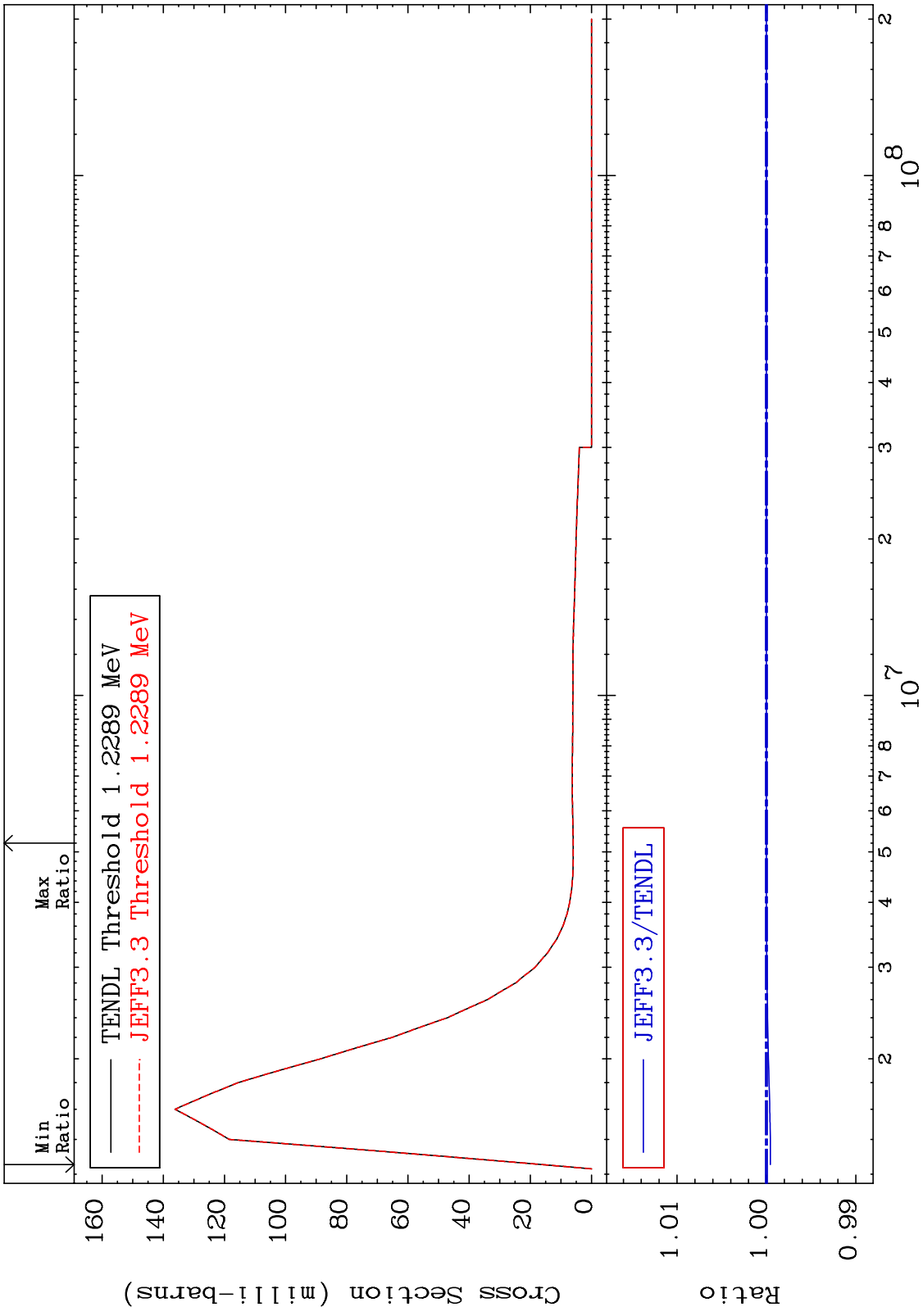


MAT 7037 MT= 59 (n, n') Level Cross Section 70-Yb-172
 -0.038 To 0.198 %

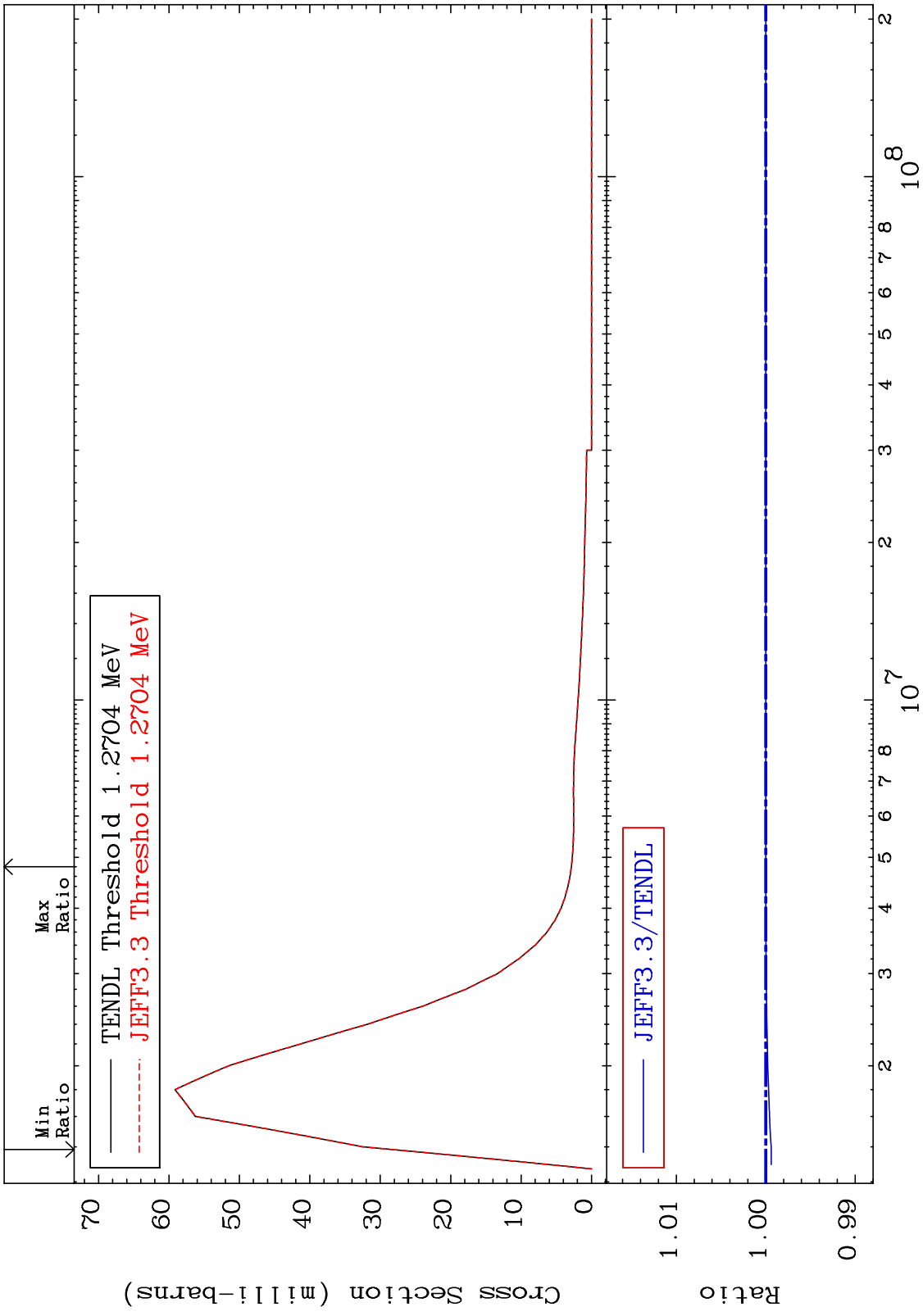


Incident Energy (eV) 70-Yb-172

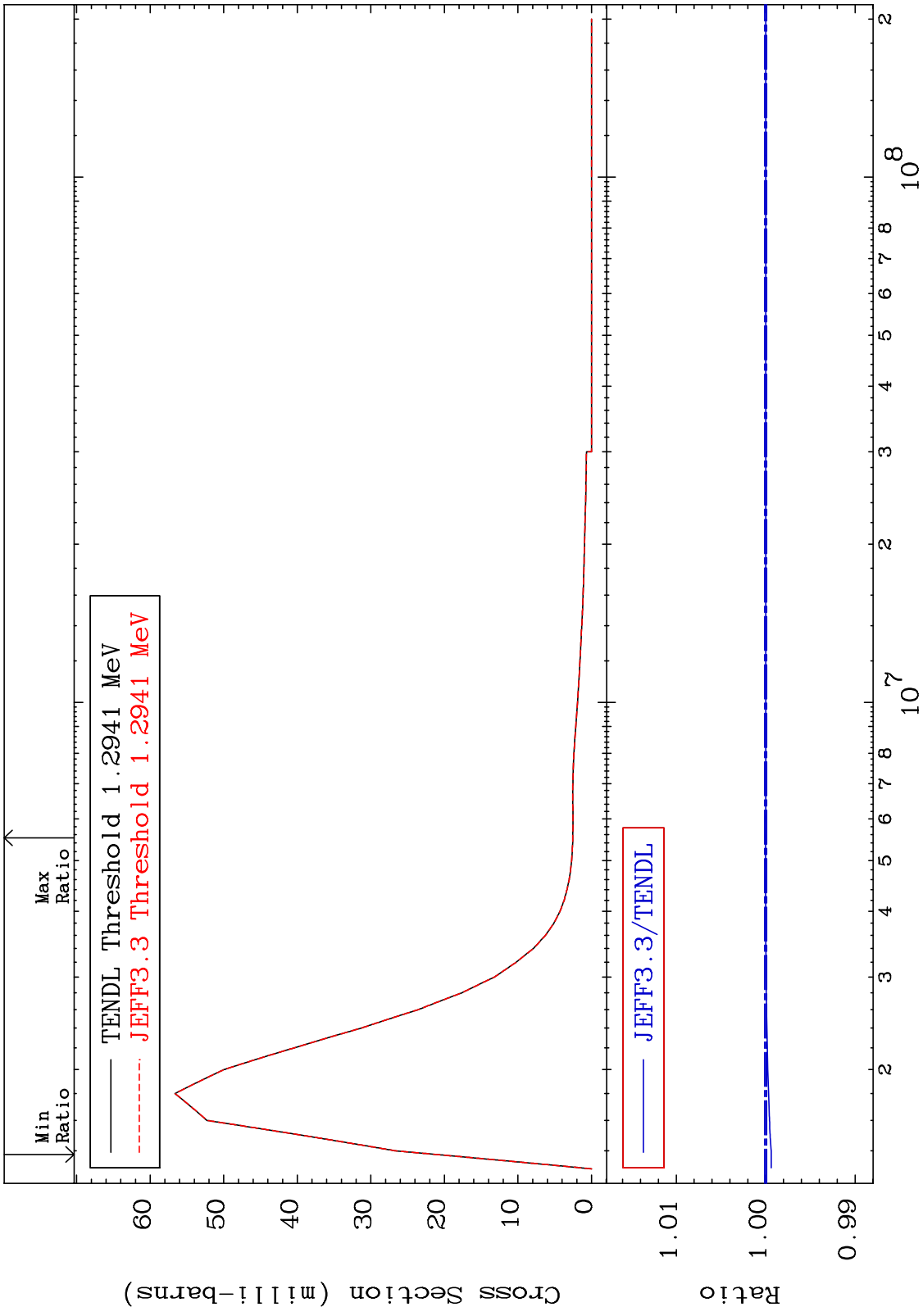
MAT 7037 MT= 60 (n,n') Level Cross Section 70-Yb-172 -0.045 To 0.000 %



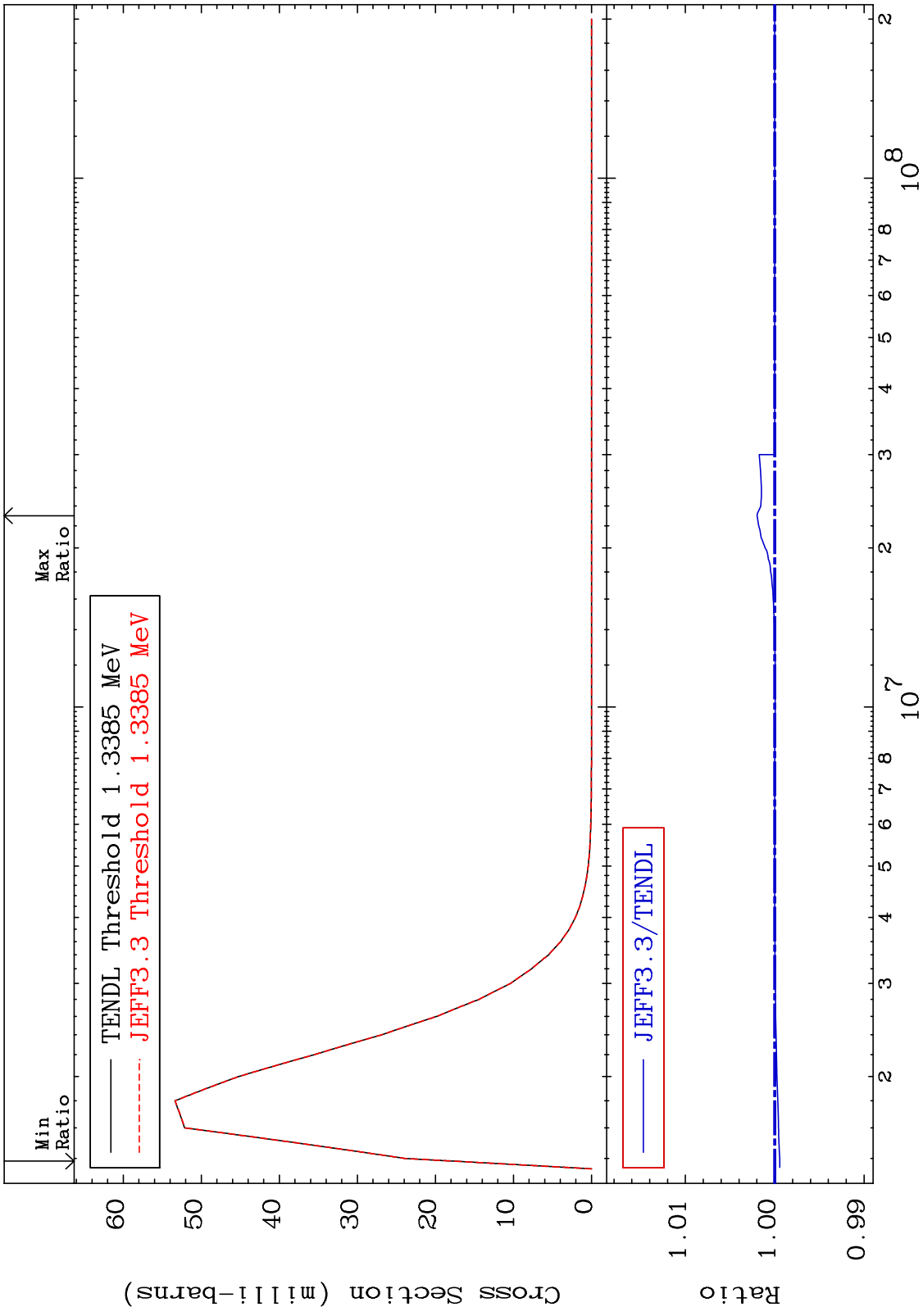
MAT 7037 MT= 61 (n,n') Level Cross Section -0.061 To 0.000 % 70-Yb-172



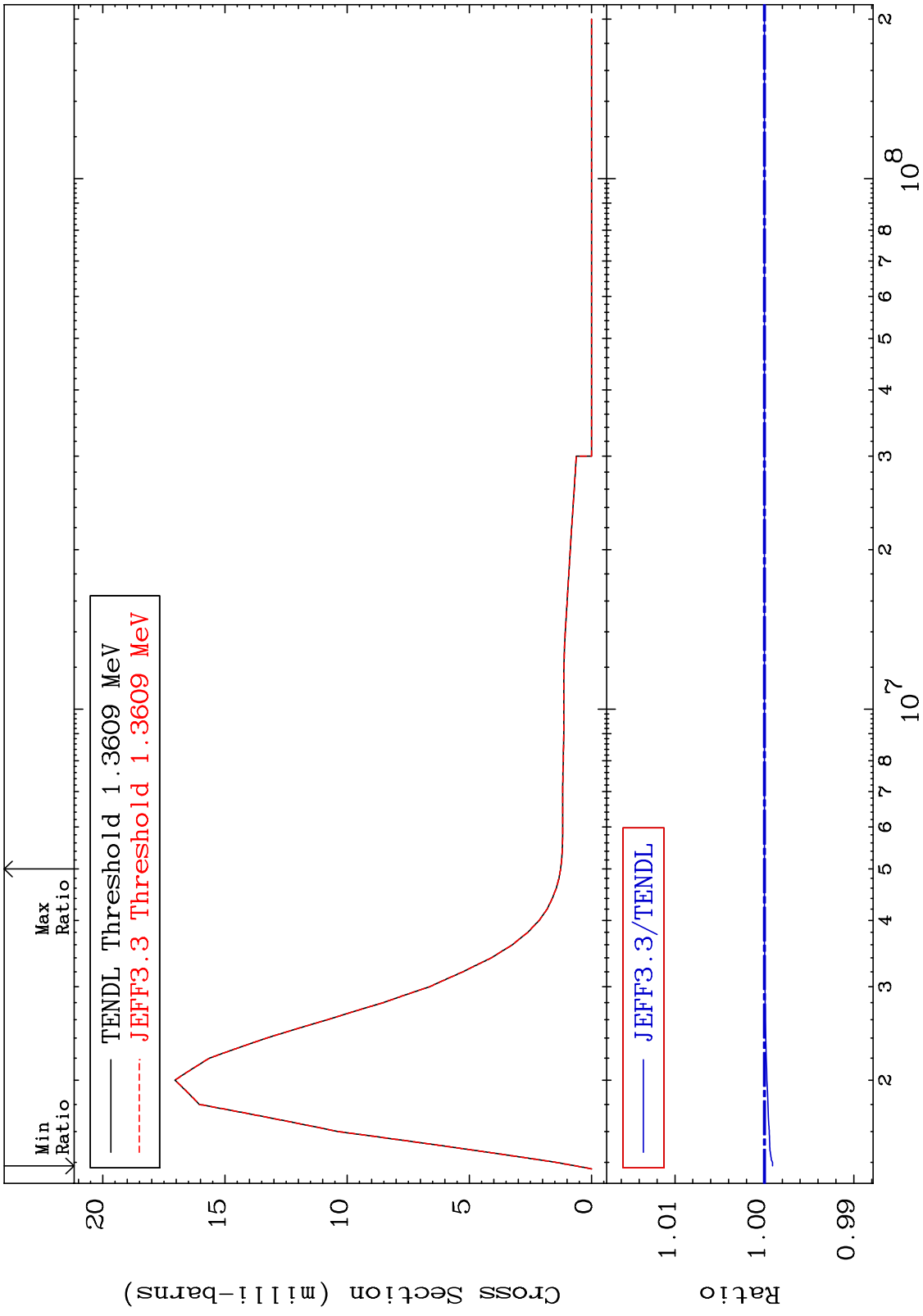
MAT 7037 MT= 62 (n,n') Level Cross Section 70-Yb-172 -0.062 To 0.000 %



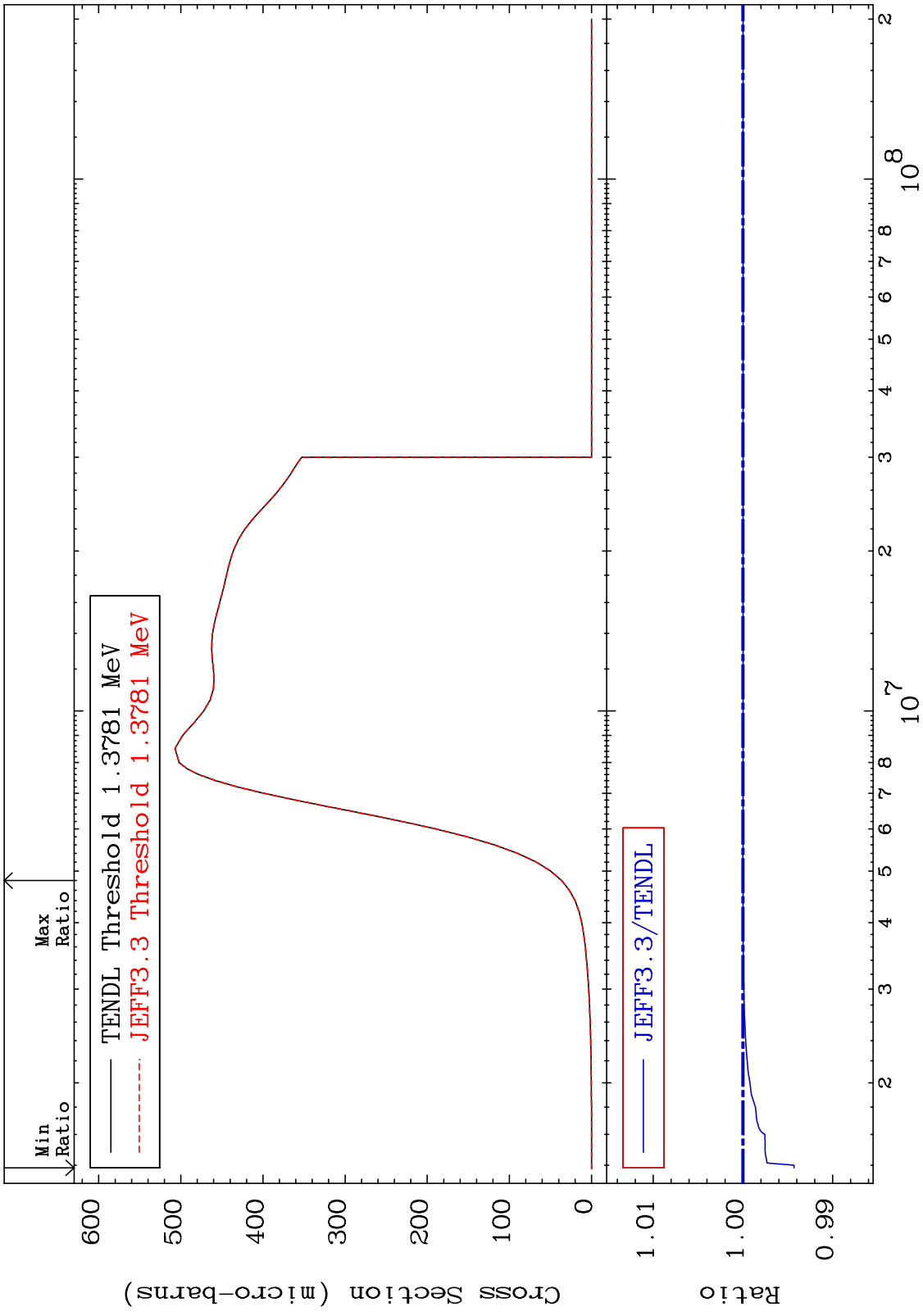
MAT 7037 MT= 63 (n,n') Level Cross Section 70-Yb-172
 -0.056 To 0.198 %



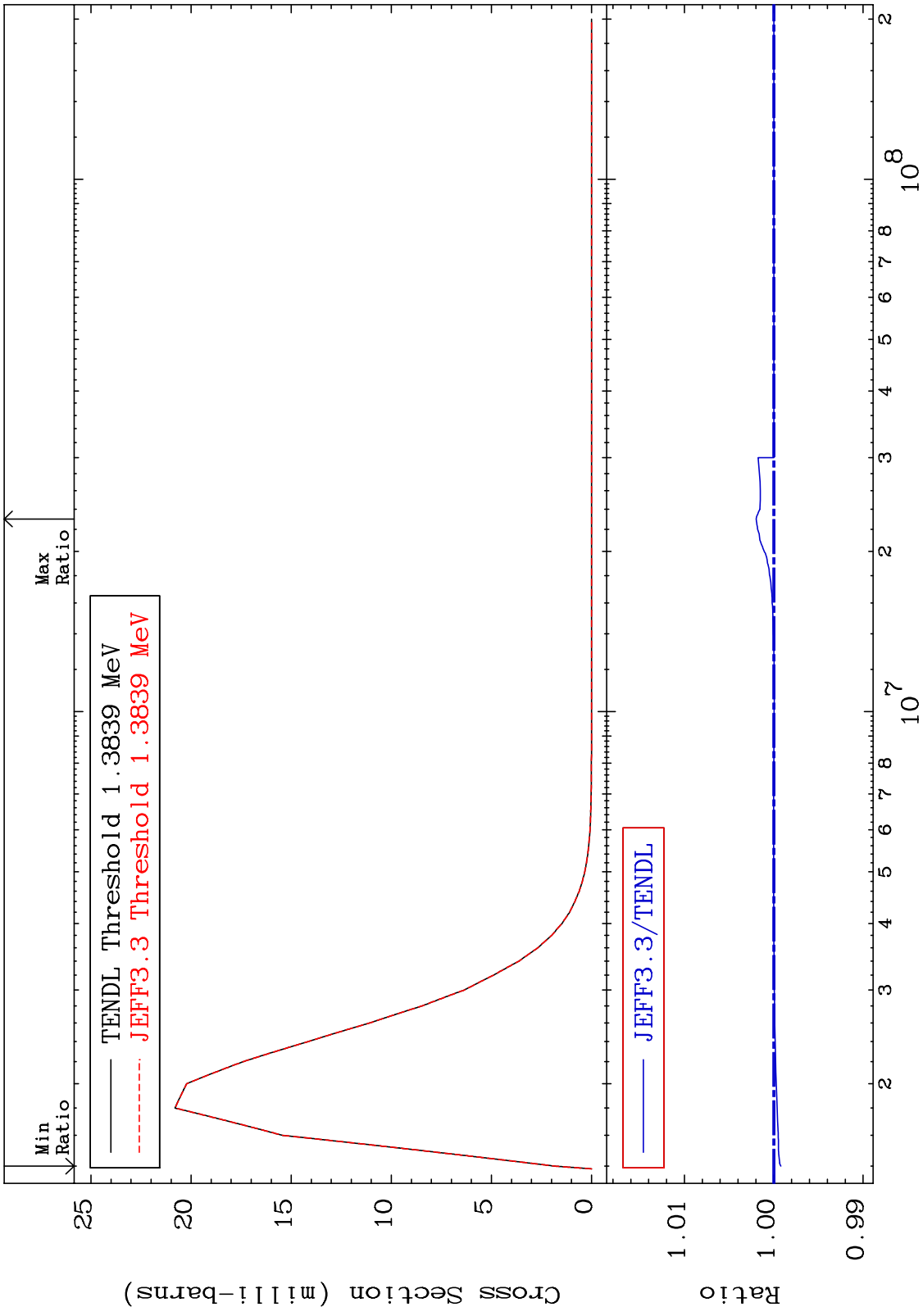
MAT 7037 MT= 64 (n,n') Level Cross Section 70-Yb-172 -0.091 To 0.000 %



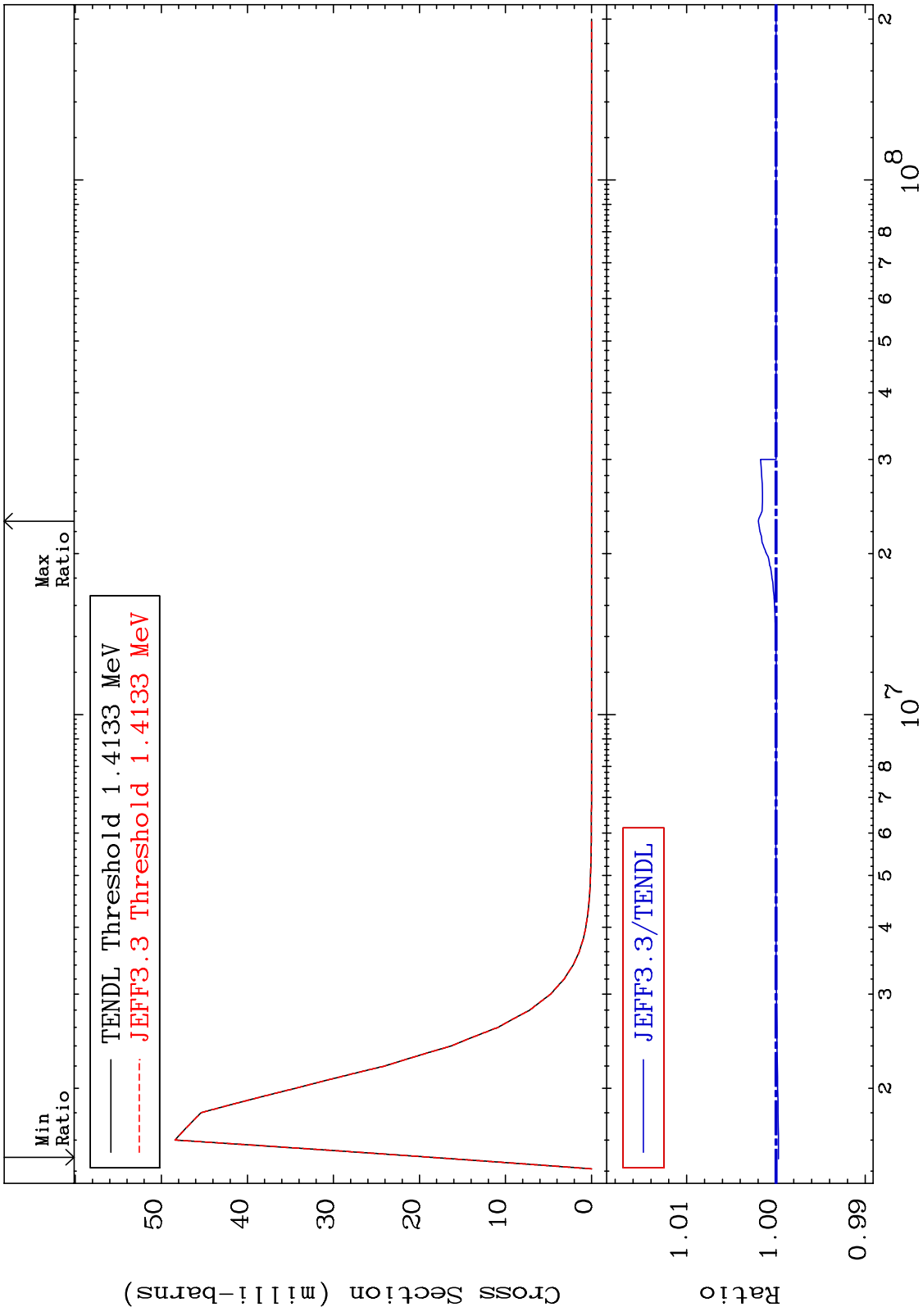
MAT 7037 MT= 65 (n,n') Level Cross Section -0.570 To 0.000 % 70-Yb-172



MAT 7037 MT= 66 (n,n') Level Cross Section 70-Yb-172
 -0.078 To 0.198 %



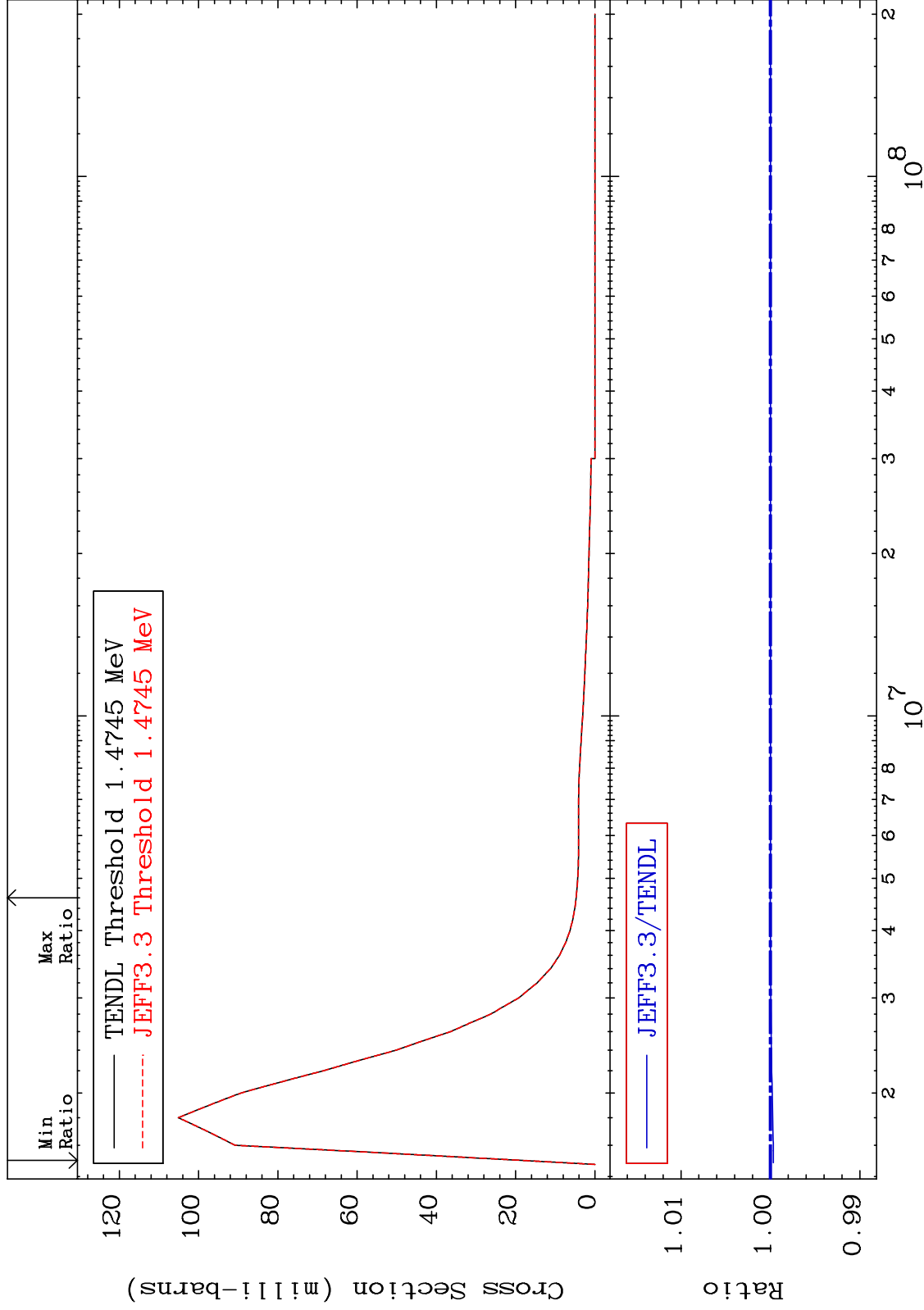
MAT 7037 MT= 67 (n,n') Level Cross Section 70-Yb-172
 -0.029 To 0.197 %



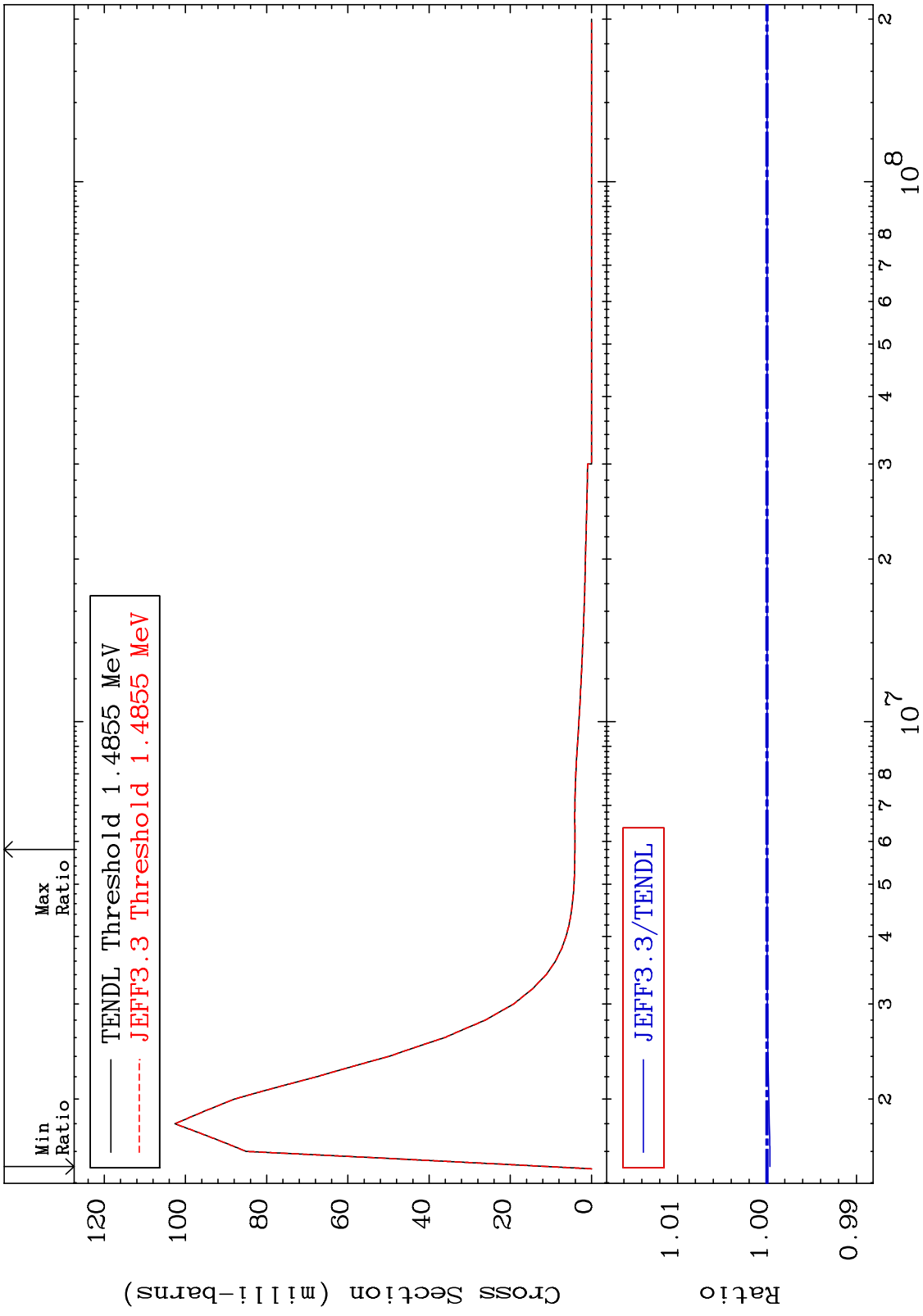
MAT 7037

MT= 68 (n,n') Level
Cross Section

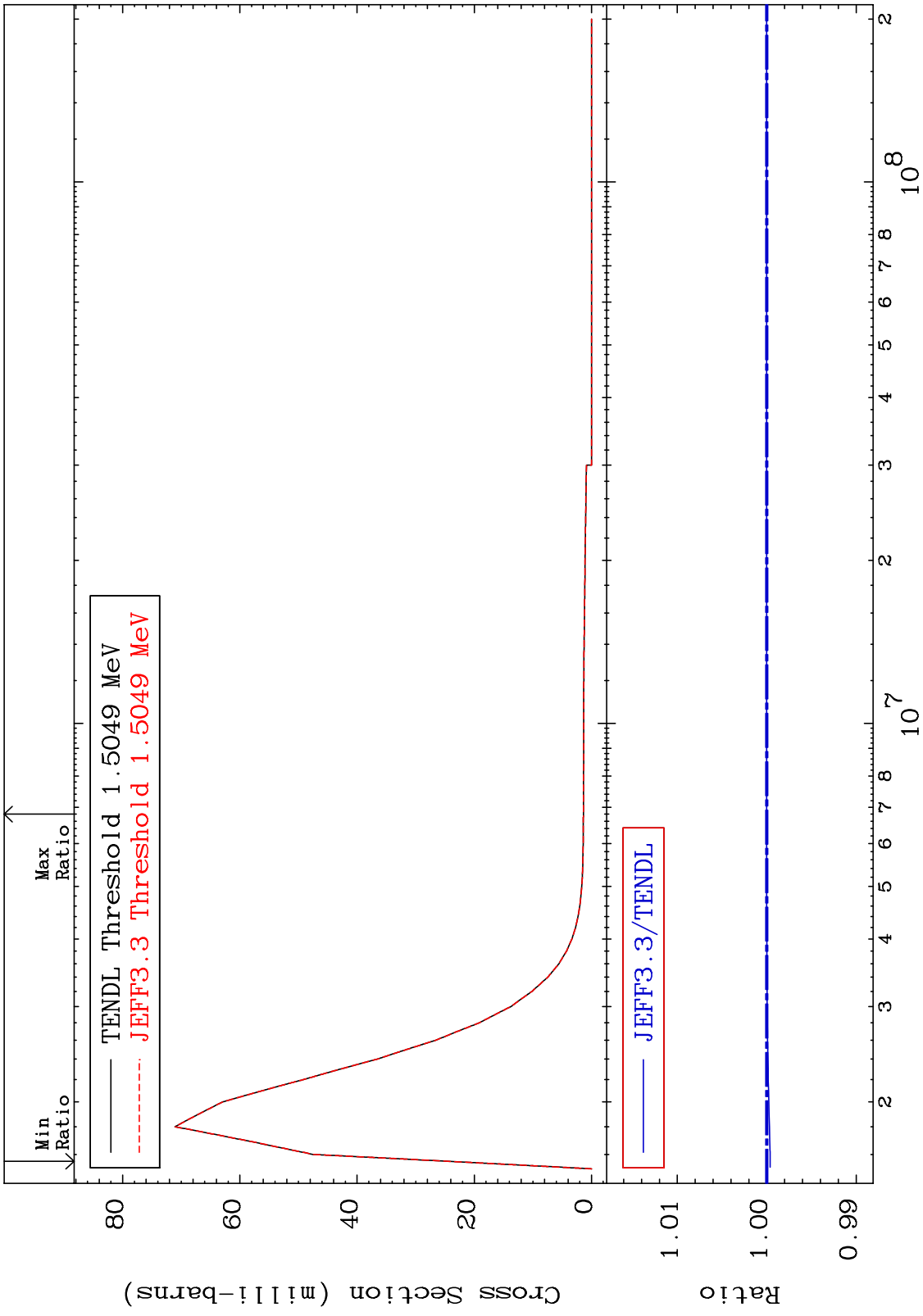
70-Yb-172
-0.033 To 0.000 %



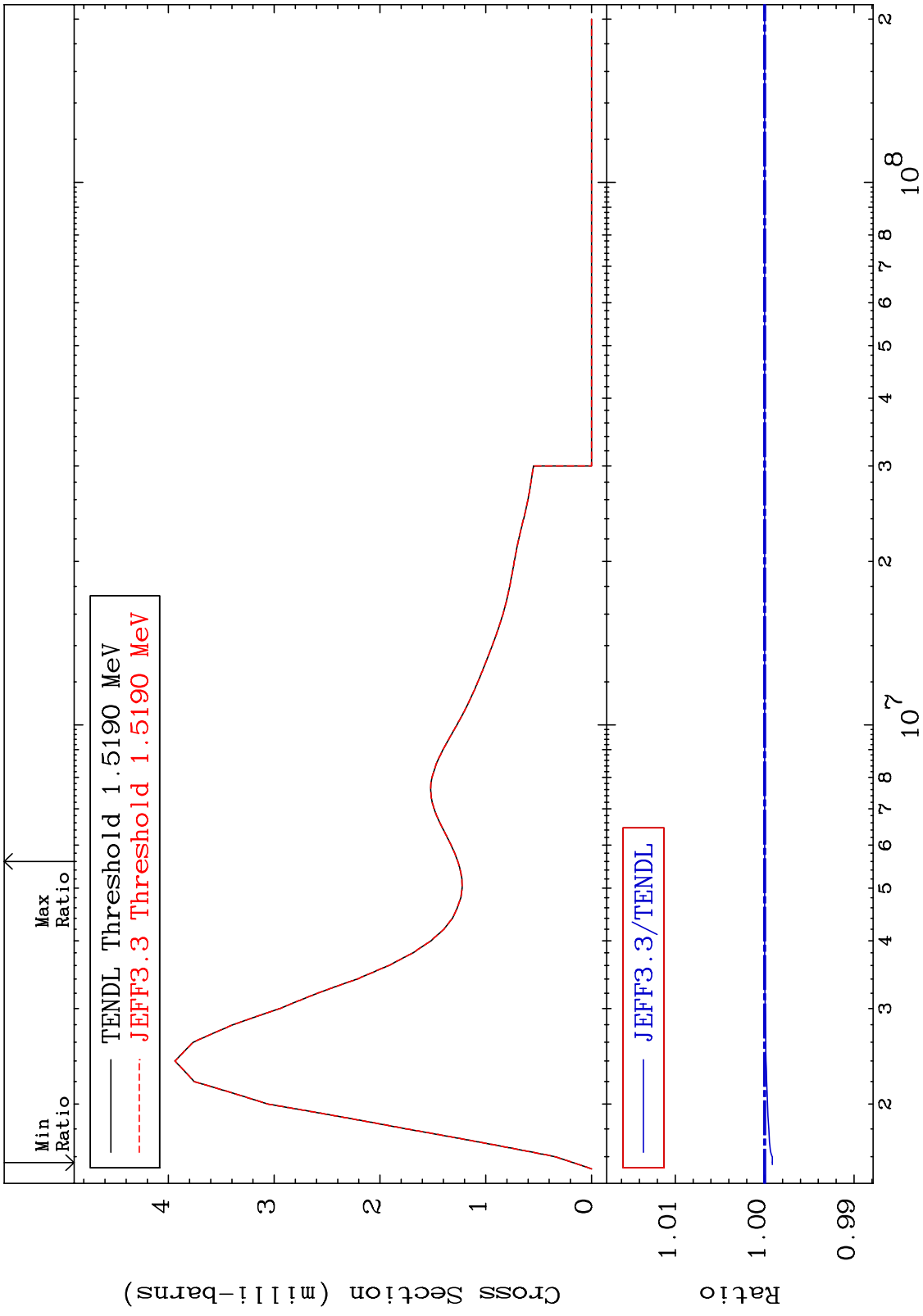
MAT 7037 MT= 69 (n,n') Level Cross Section 70-Yb-172 -0.033 To 0.000 %



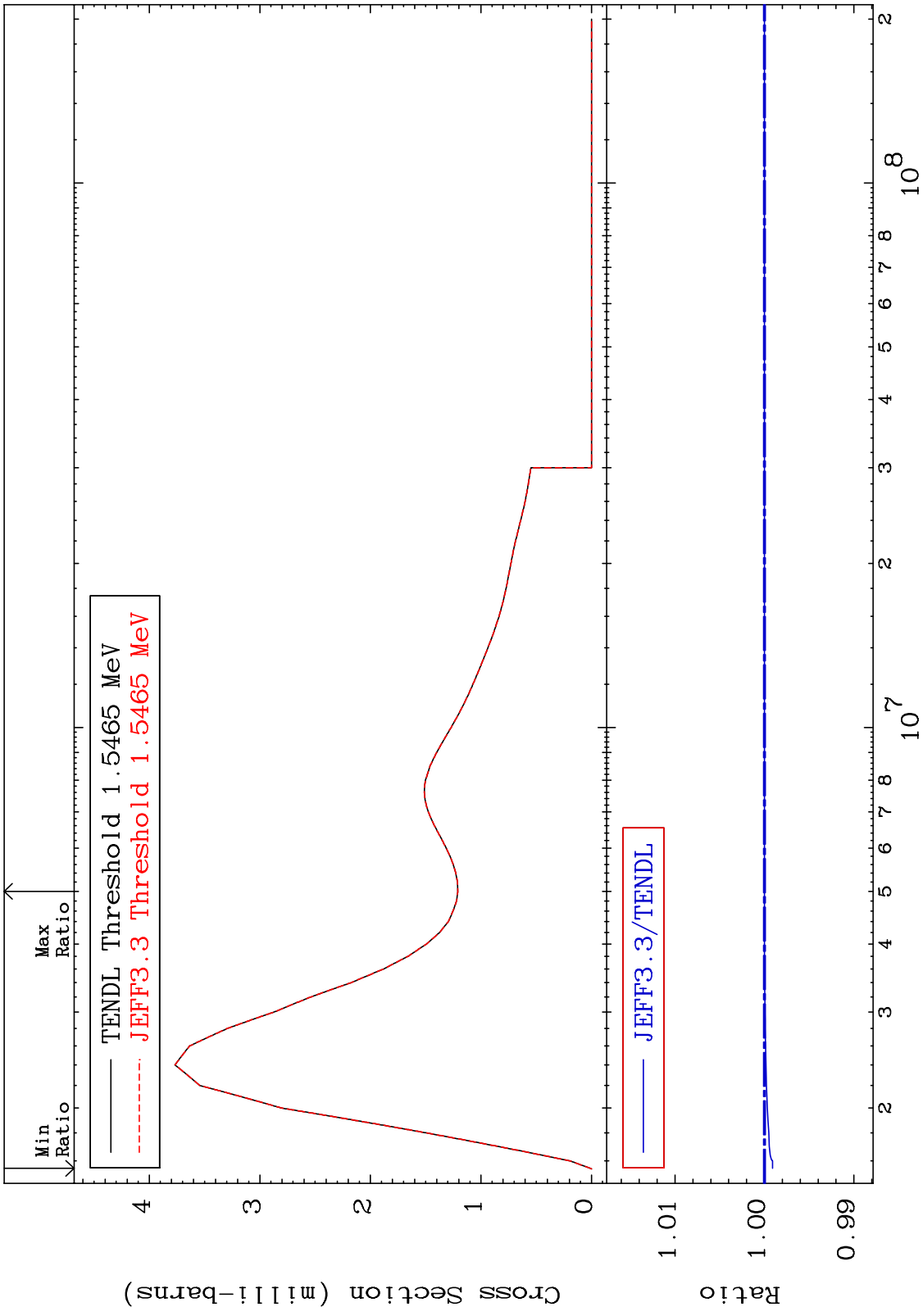
MAT 7037 MT= 70 (n,n') Level Cross Section 70-Yb-172 -0.039 To 0.000 %



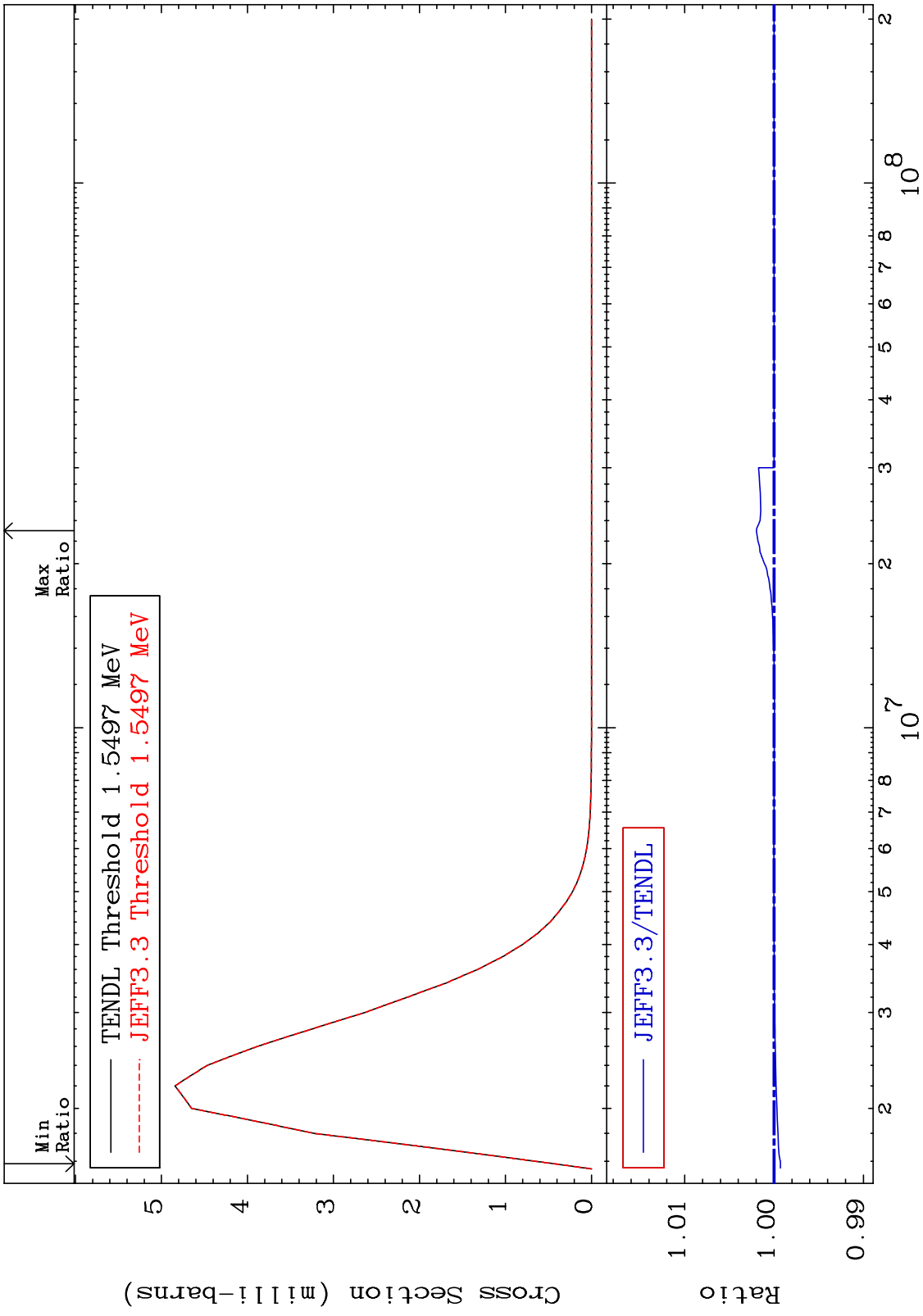
MAT 7037 MT= 71 (n,n') Level Cross Section 70-Yb-172 -0.086 To 0.000 %



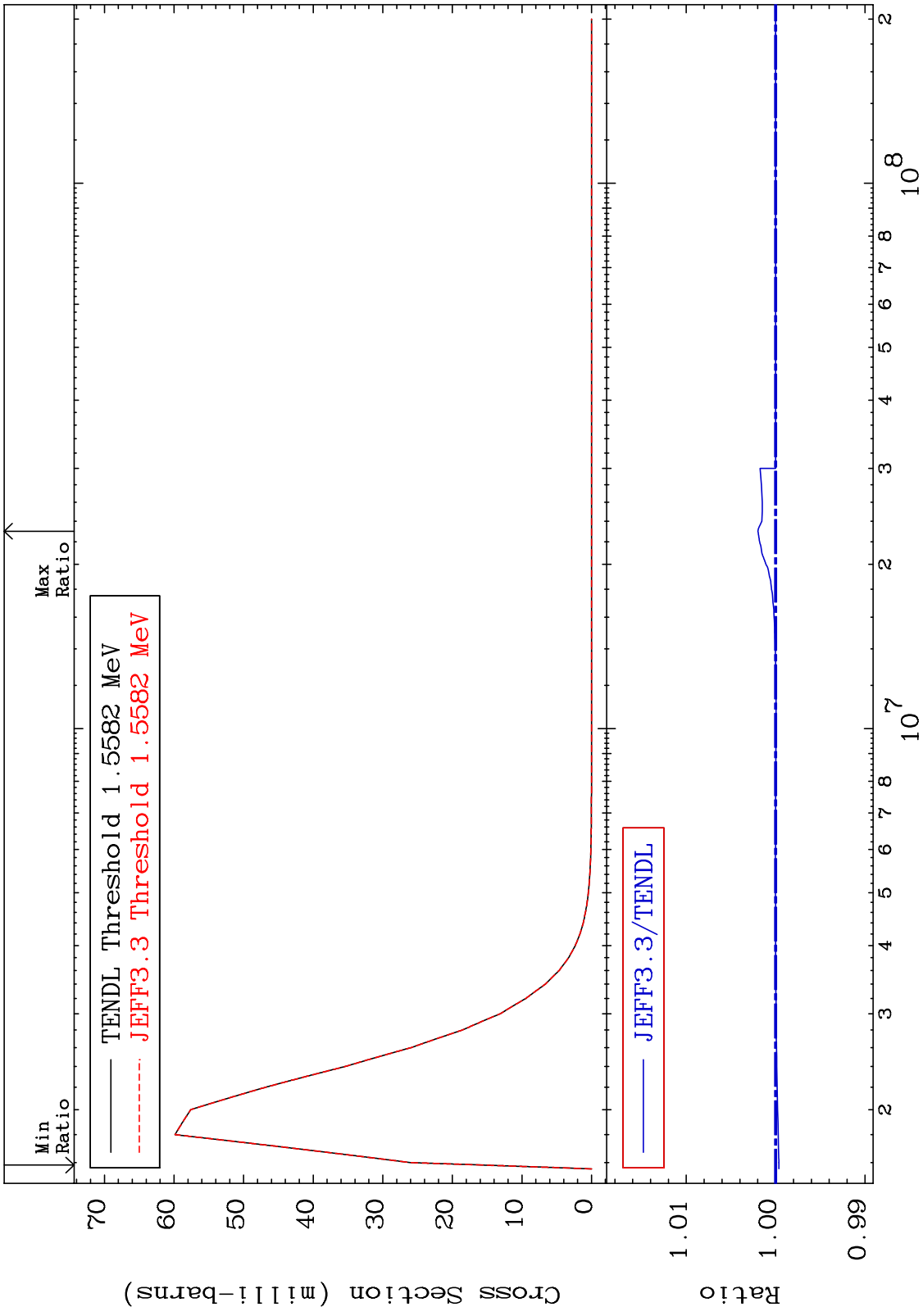
MAT 7037 MT= 72 (n,n') Level Cross Section 70-Yb-172
 -0.090 To 0.000 %



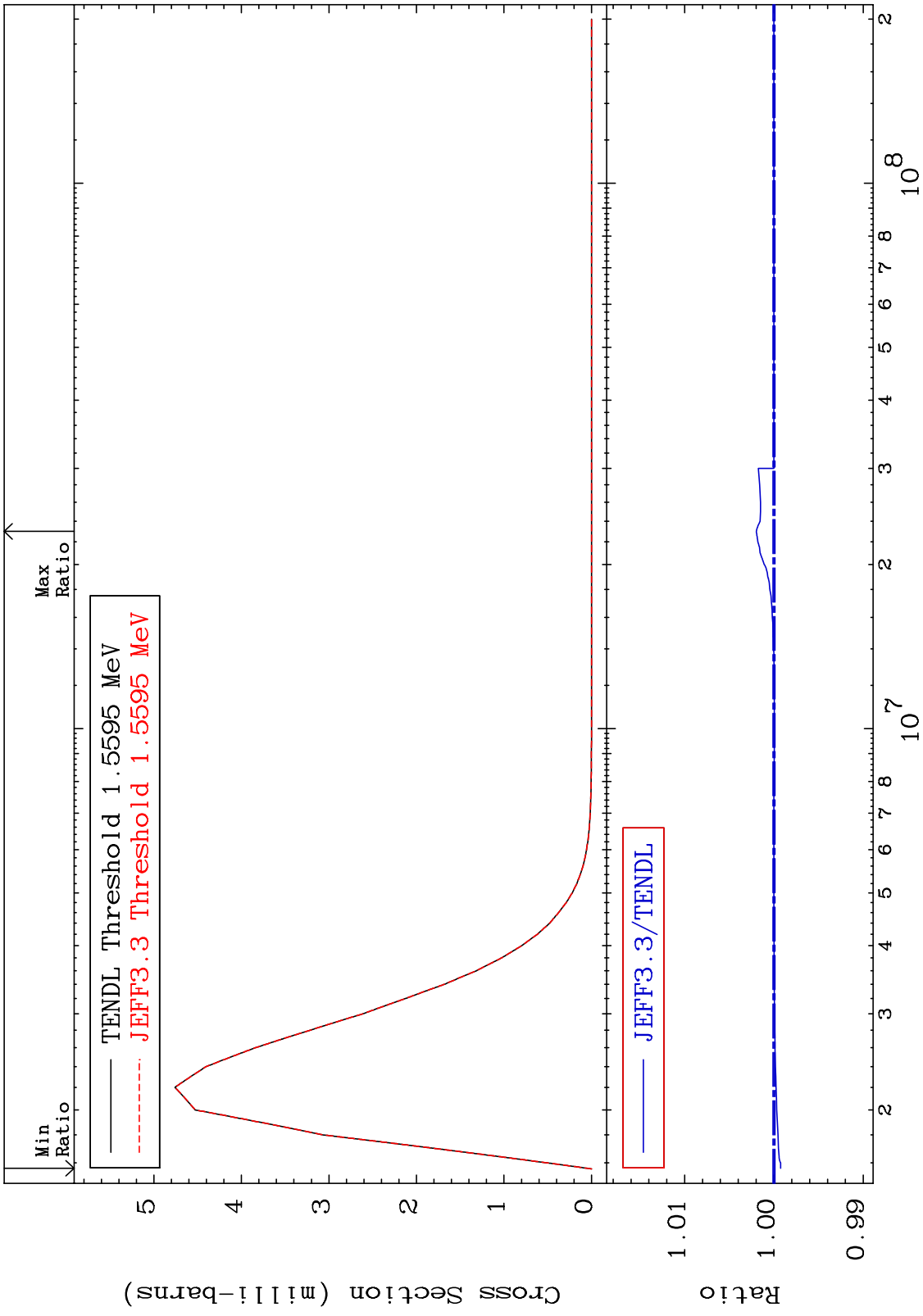
MAT 7037 MT= 73 (n,n') Level Cross Section 70-Yb-172
 -0.072 To 0.198 %



MAT 7037 MT= 74 (n,n') Level Cross Section -0.037 To 0.198 % 70-Yb-172



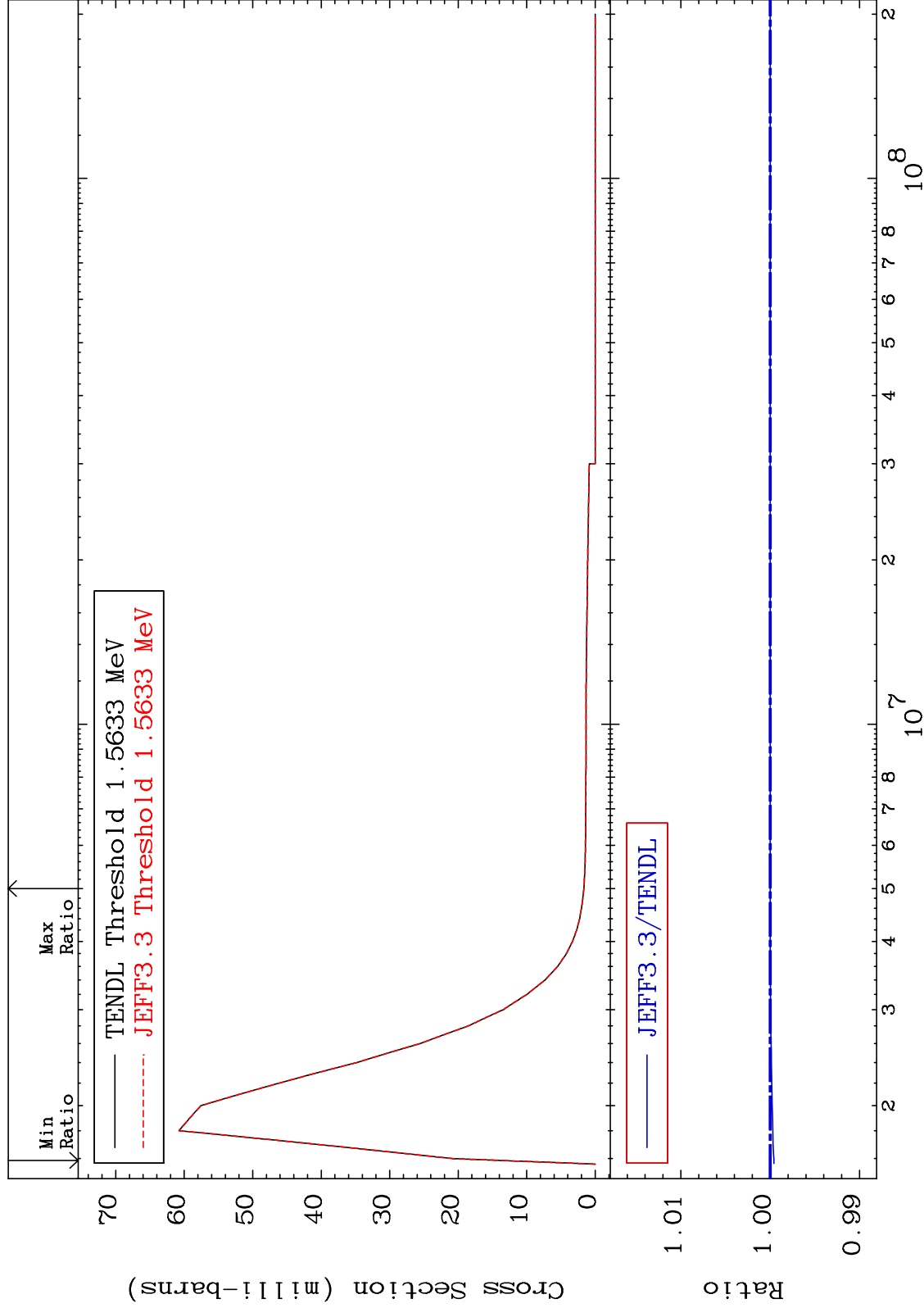
MAT 7037 MT= 75 (n,n') Level Cross Section 70-Yb-172
 -0.074 To 0.198 %



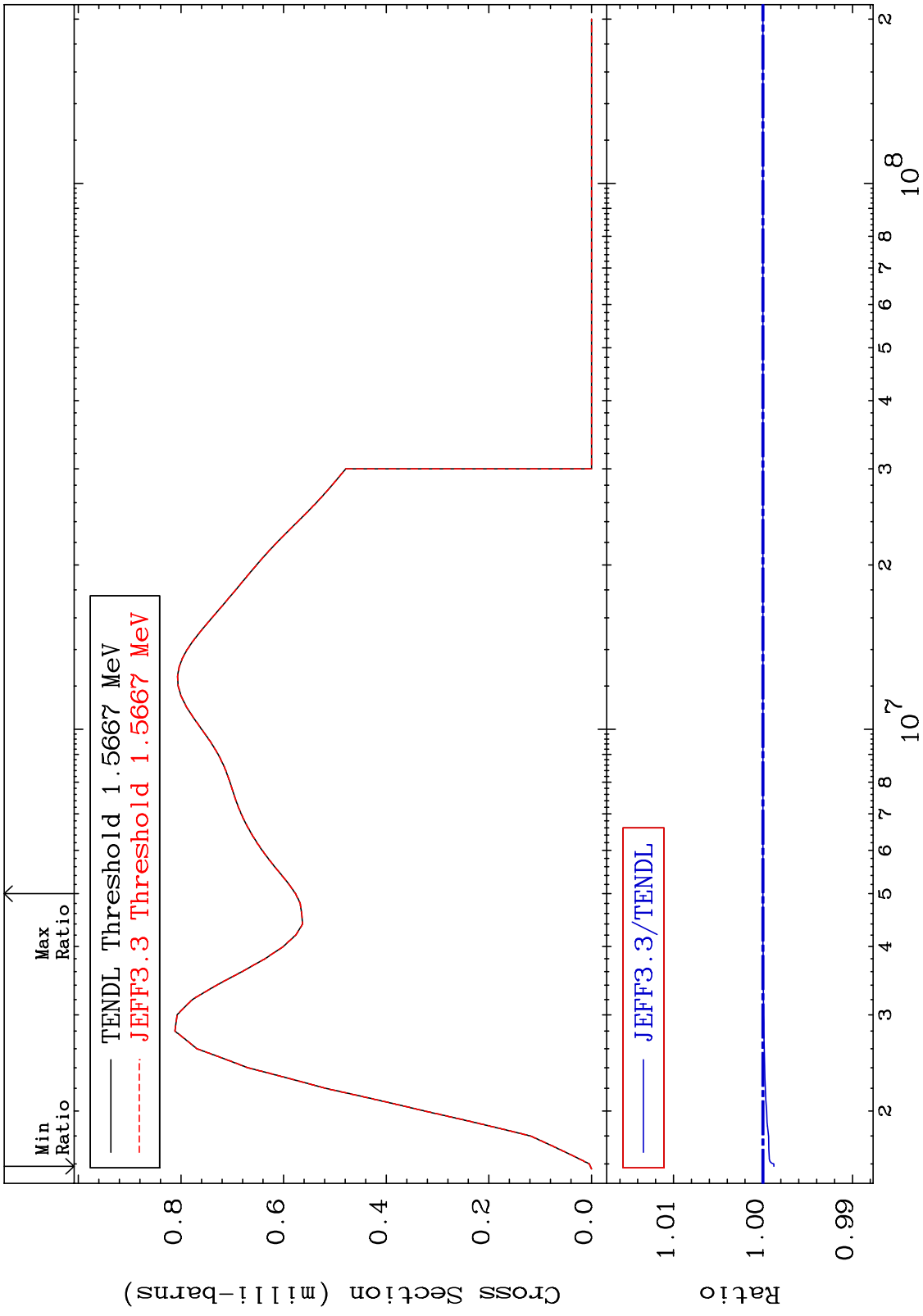
MAT 7037

MT= 76 (n,n') Level
Cross Section

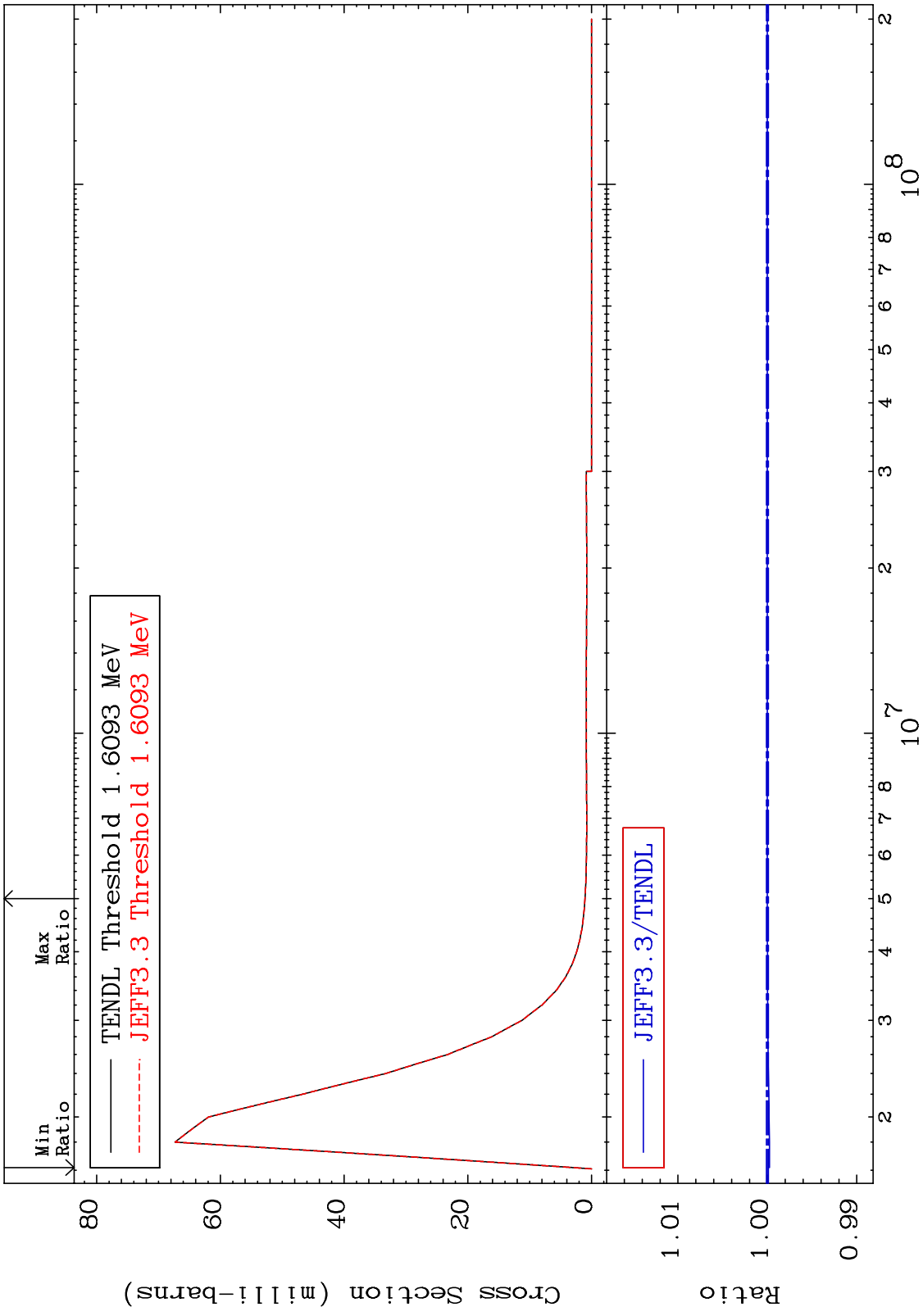
70-Yb-172
-0.041 To 0.000 %



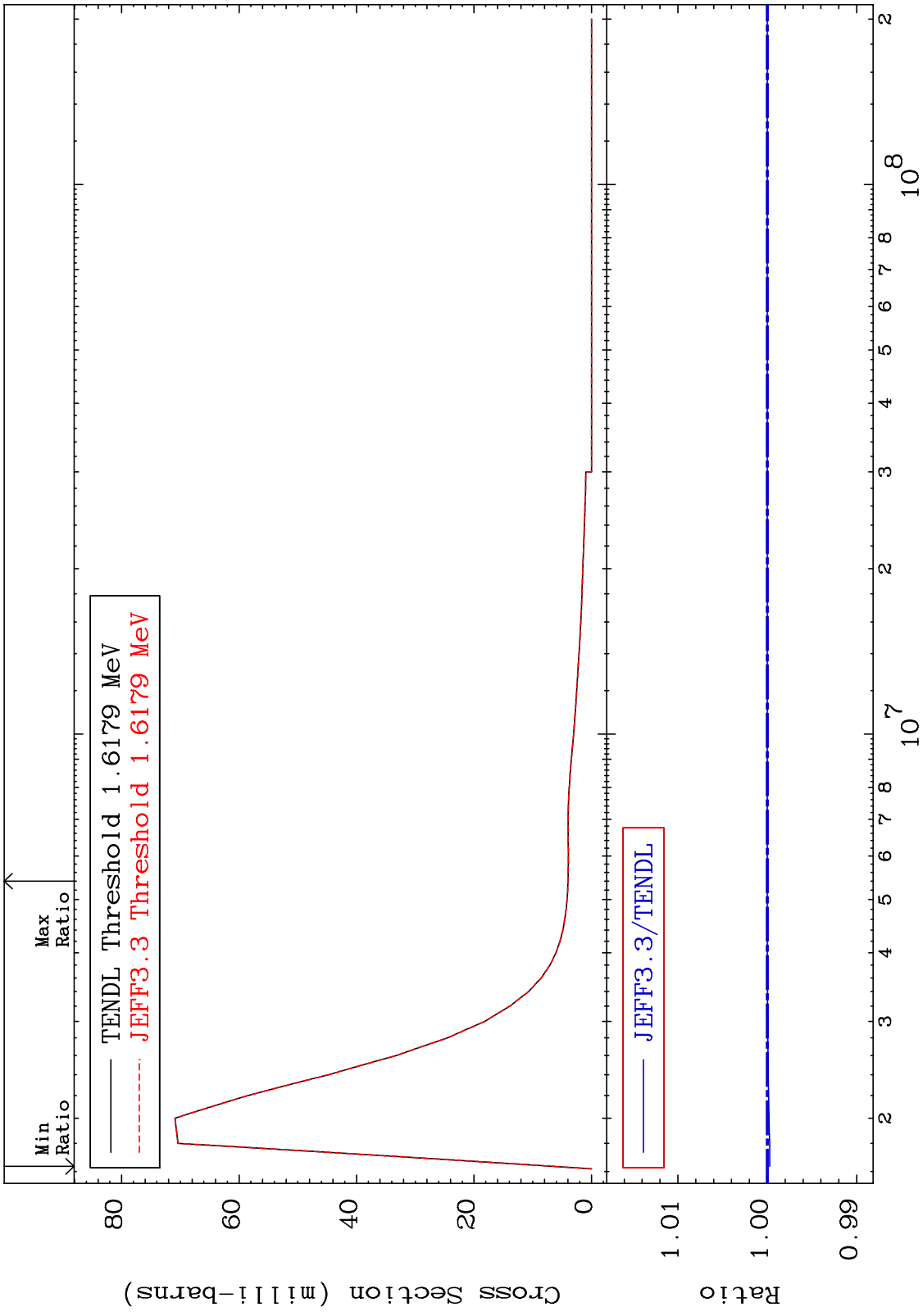
MAT 7037 MT= 77 (n,n') Level Cross Section 70-Yb-172 -0.122 To 0.000 %



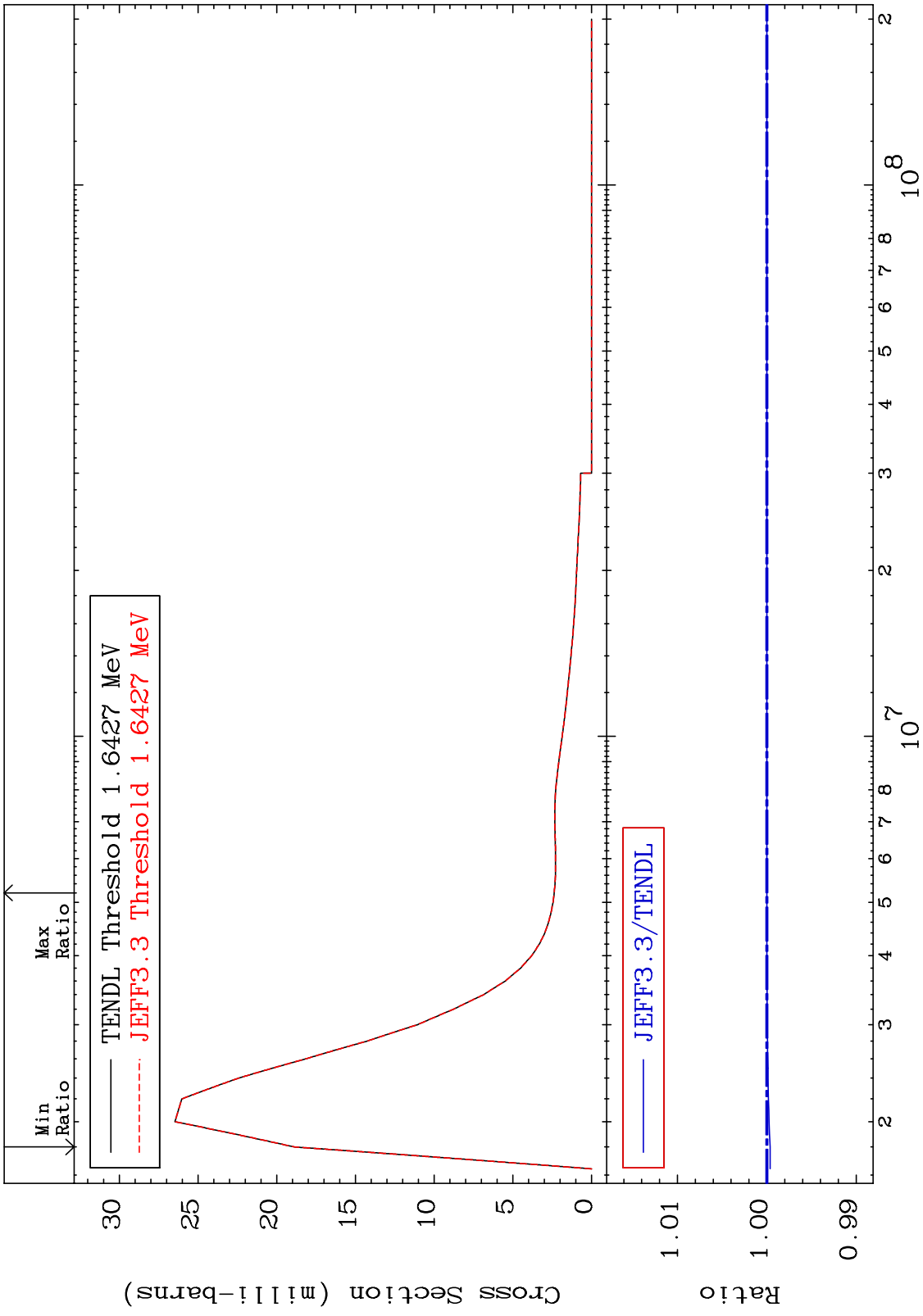
MAT 7037 MT= 78 (n,n') Level Cross Section 70-Yb-172 -0.025 To 0.000 %



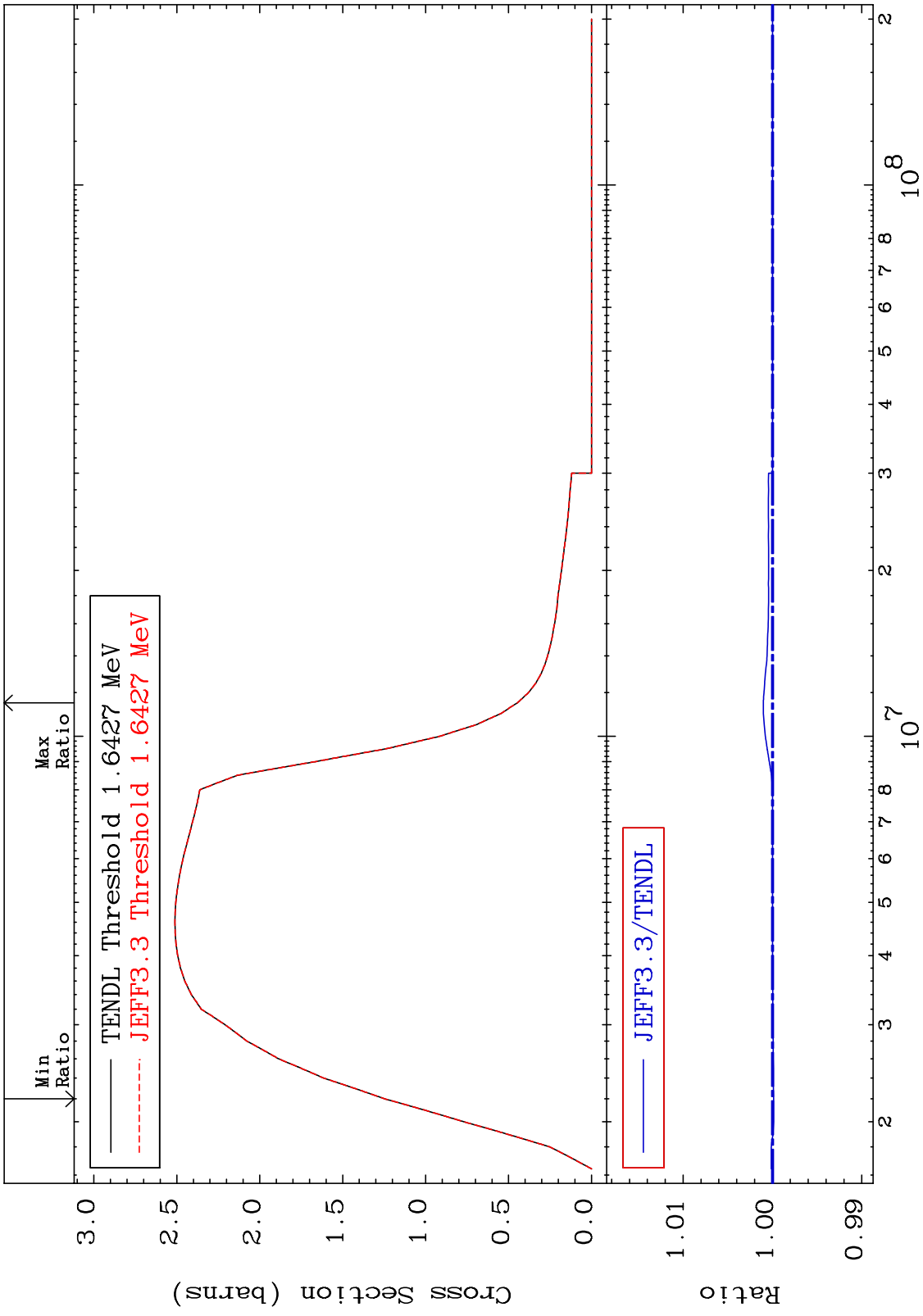
MAT 7037 MT= 79 (n,n') Level Cross Section 70-Yb-172 -0.026 To 0.000 %



MAT 7037 MT= 80 (n,n') Level Cross Section 70-Yb-172 -0.036 To 0.000 %



MAT 7037 70-Yb-172
-0.013 To 0.103 %
 (n, n') Continuum
 Cross Section



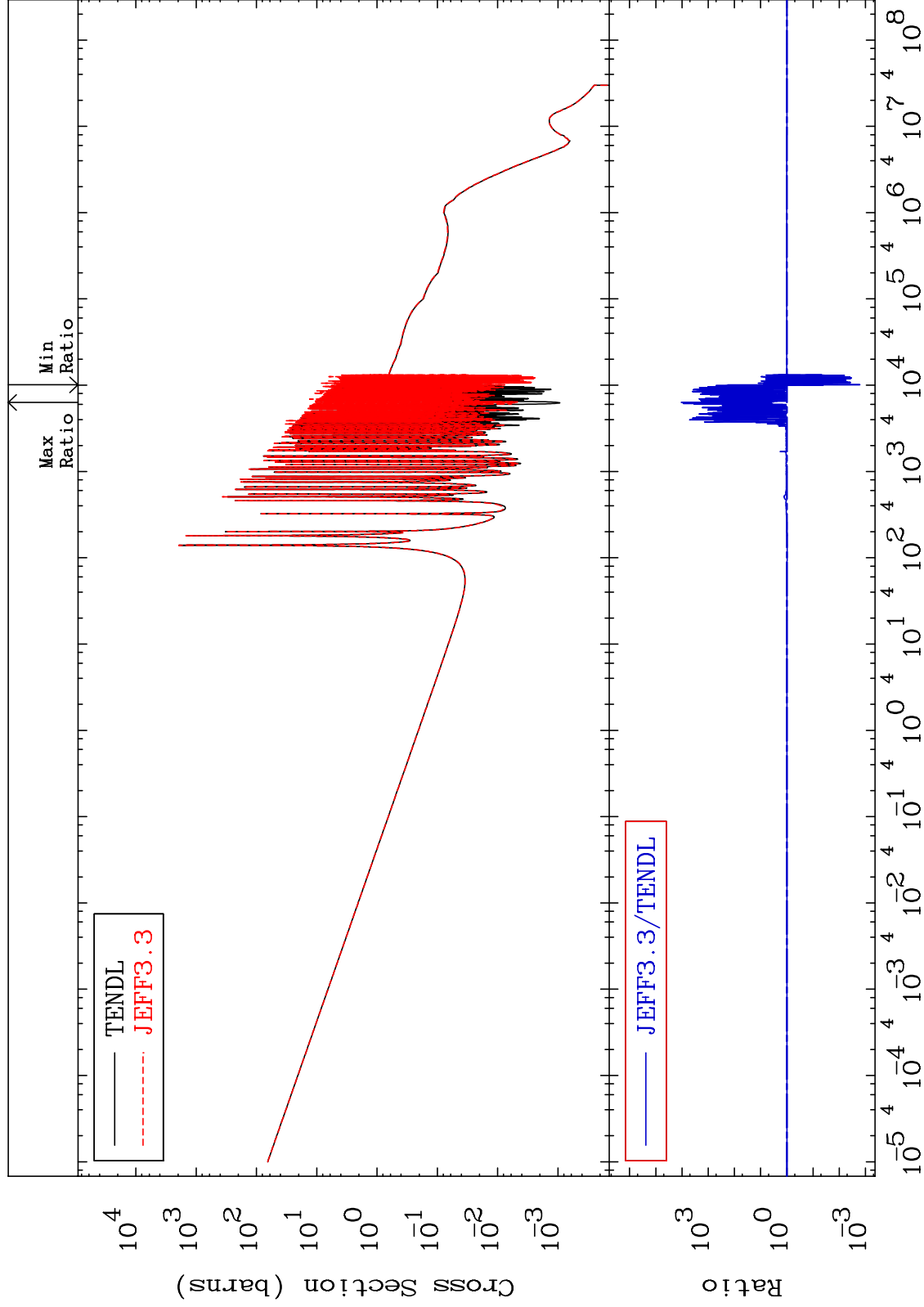
MAT 7037

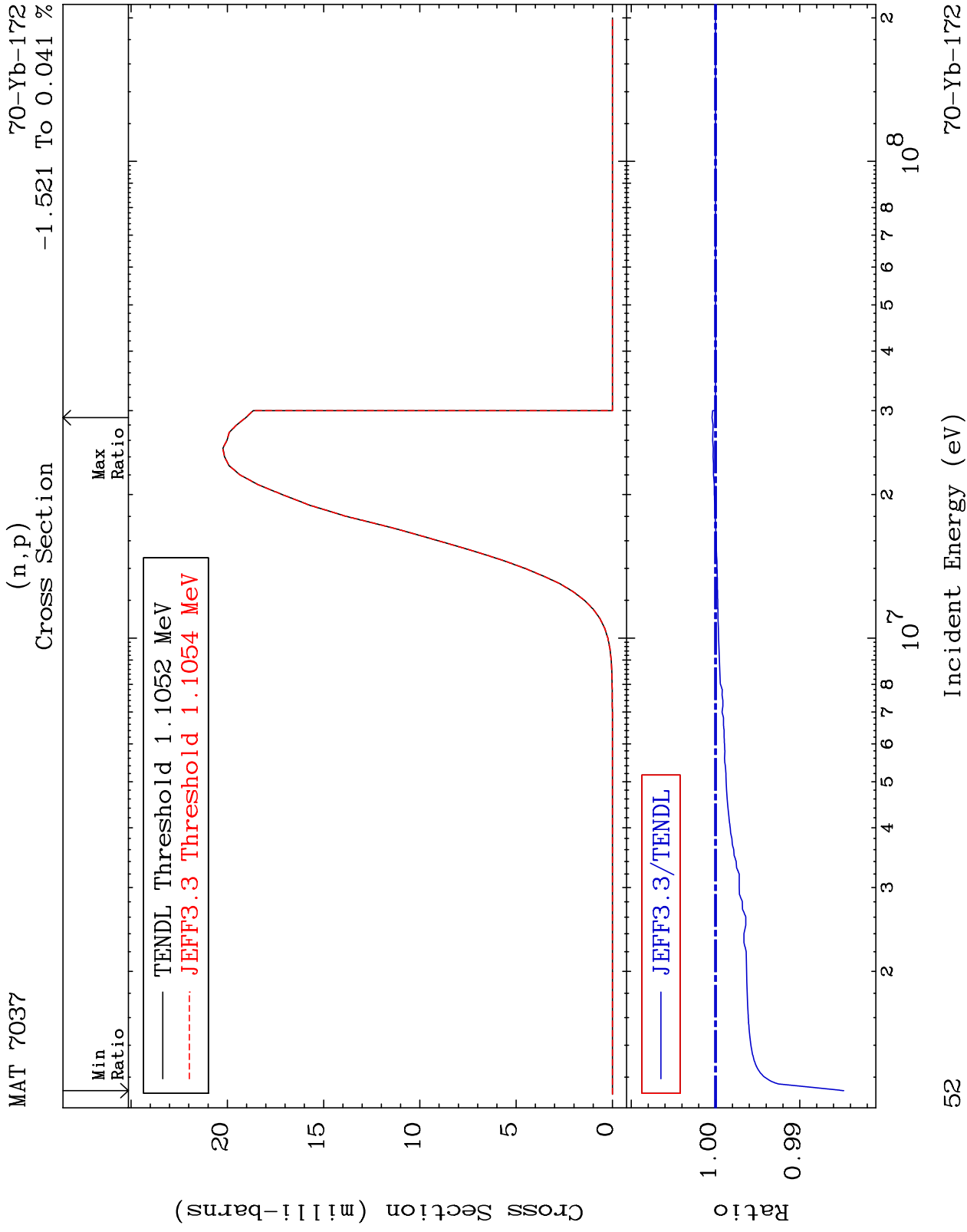
(n, γ)

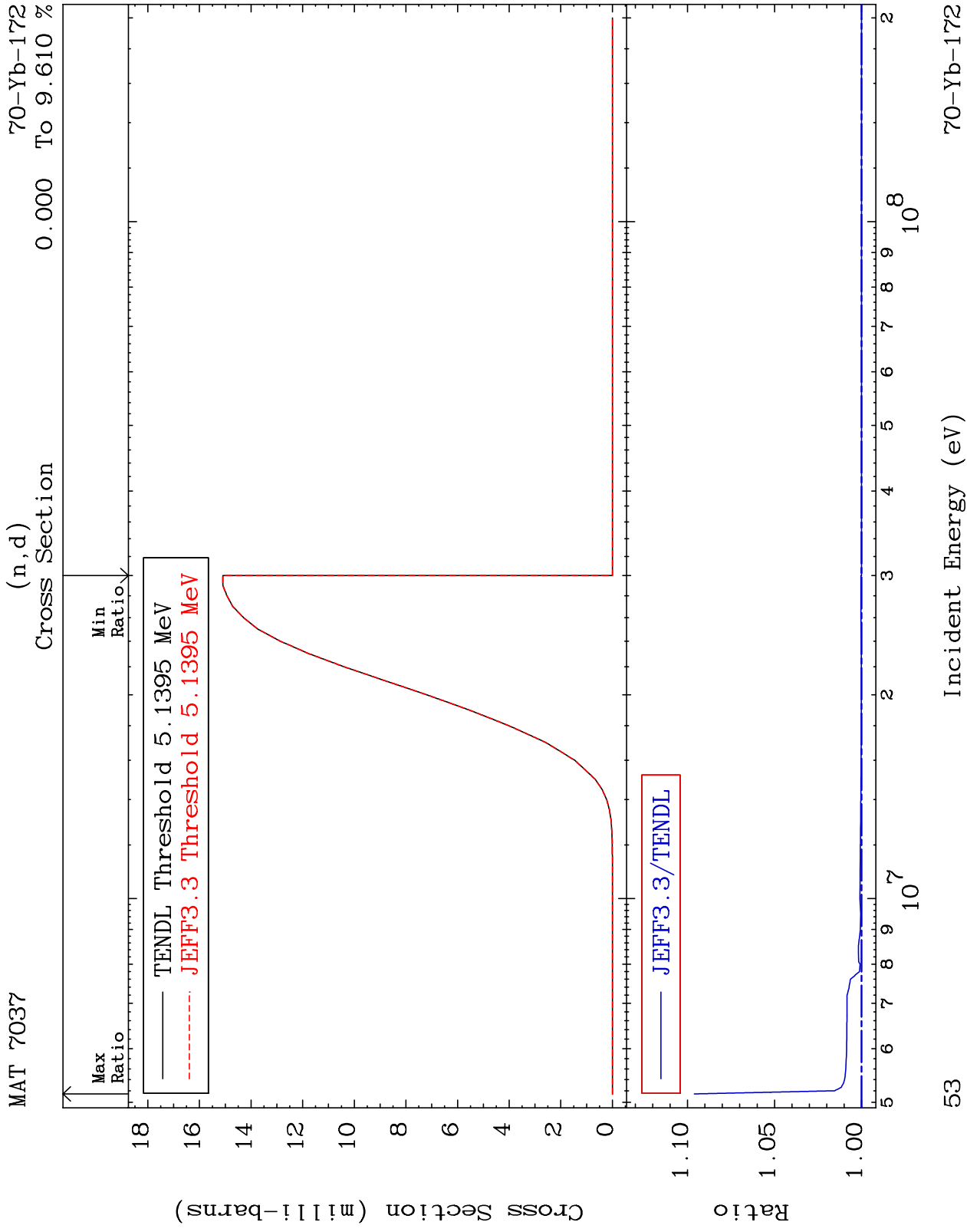
70-Yb-172

Cross Section

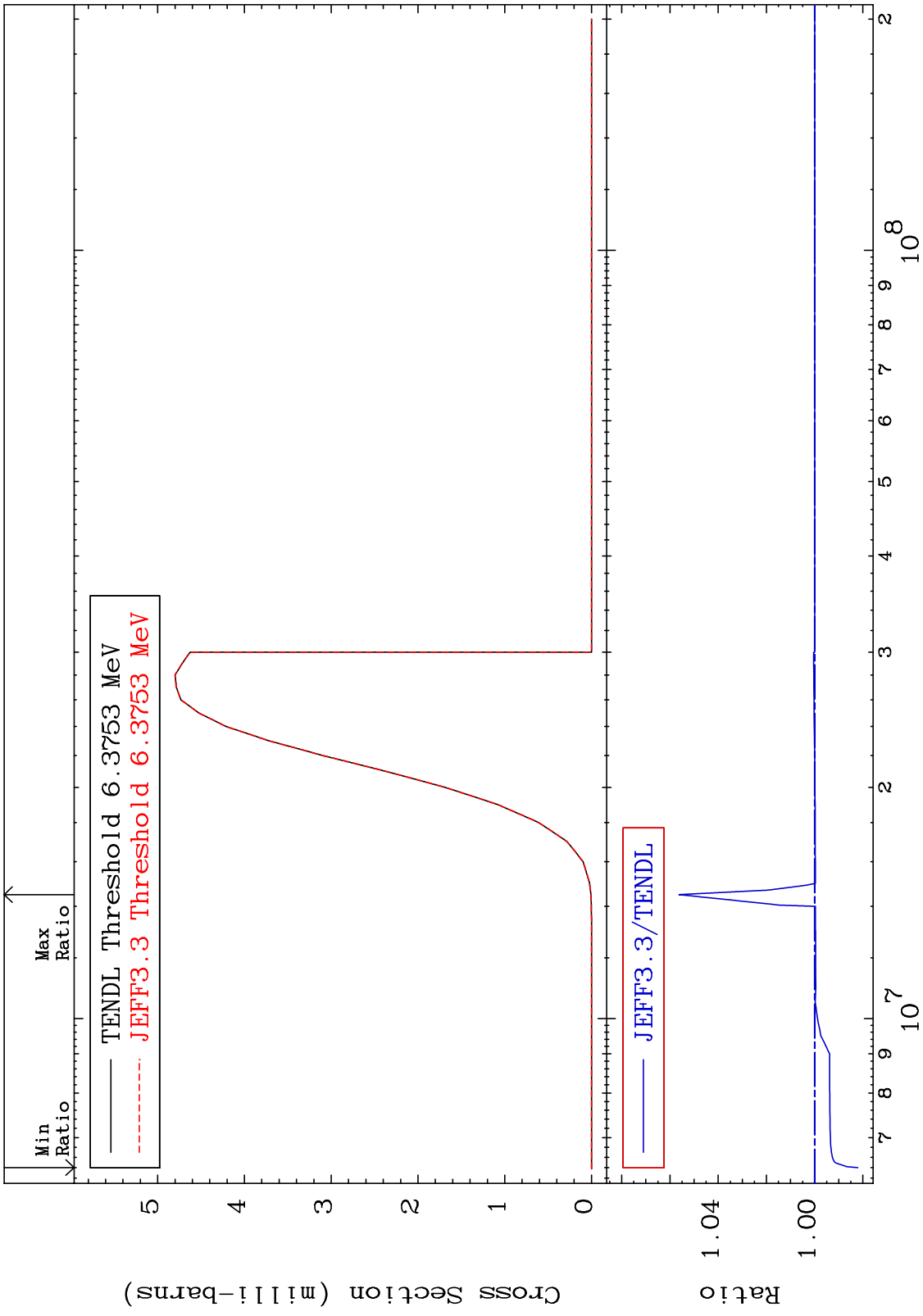
-99.83 To 9999. %







MAT 7037 (n,t) 70-Yb-172
 Cross Section -1.790 To 5.623 %



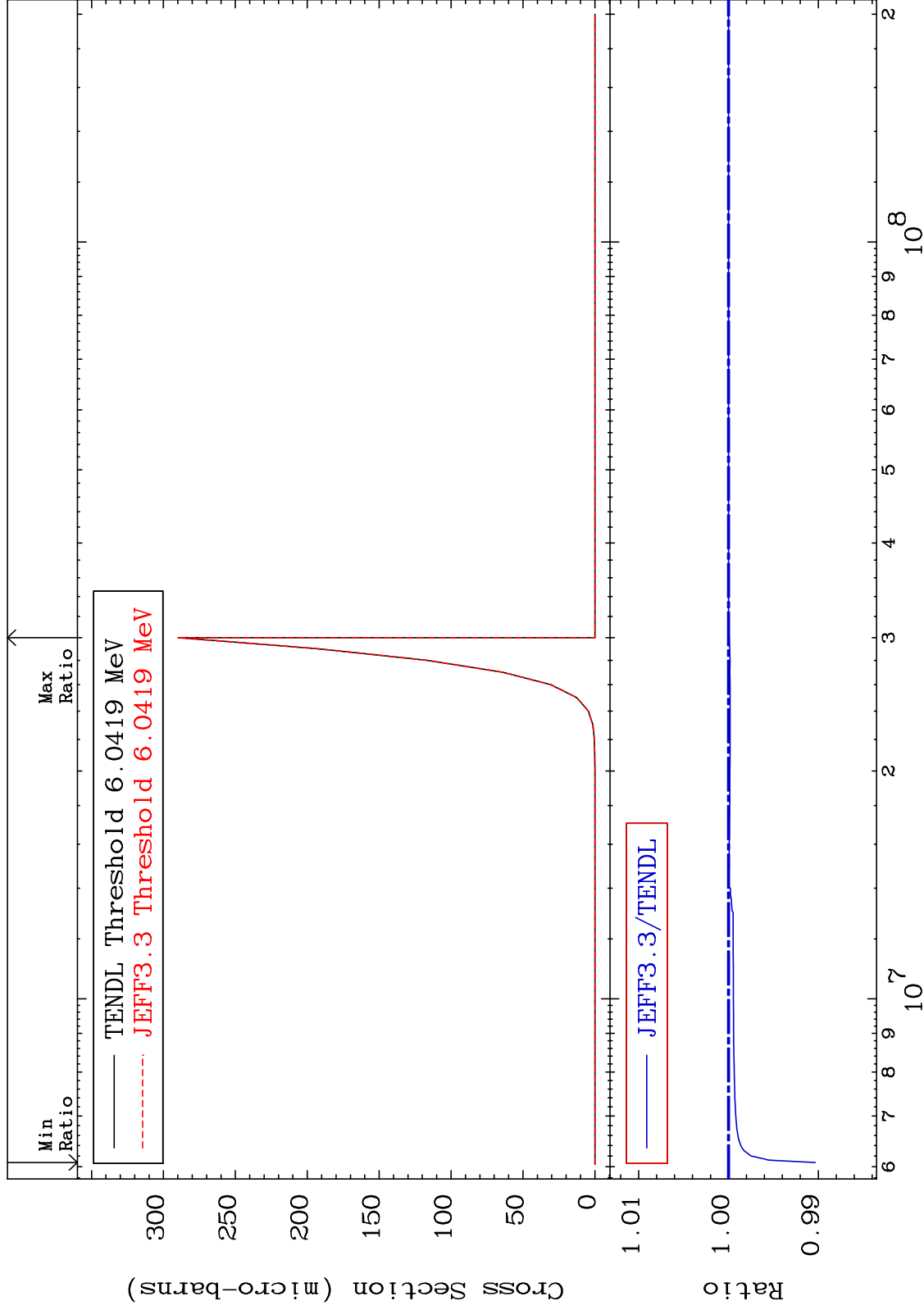
MAT 7037

(n, He-3)

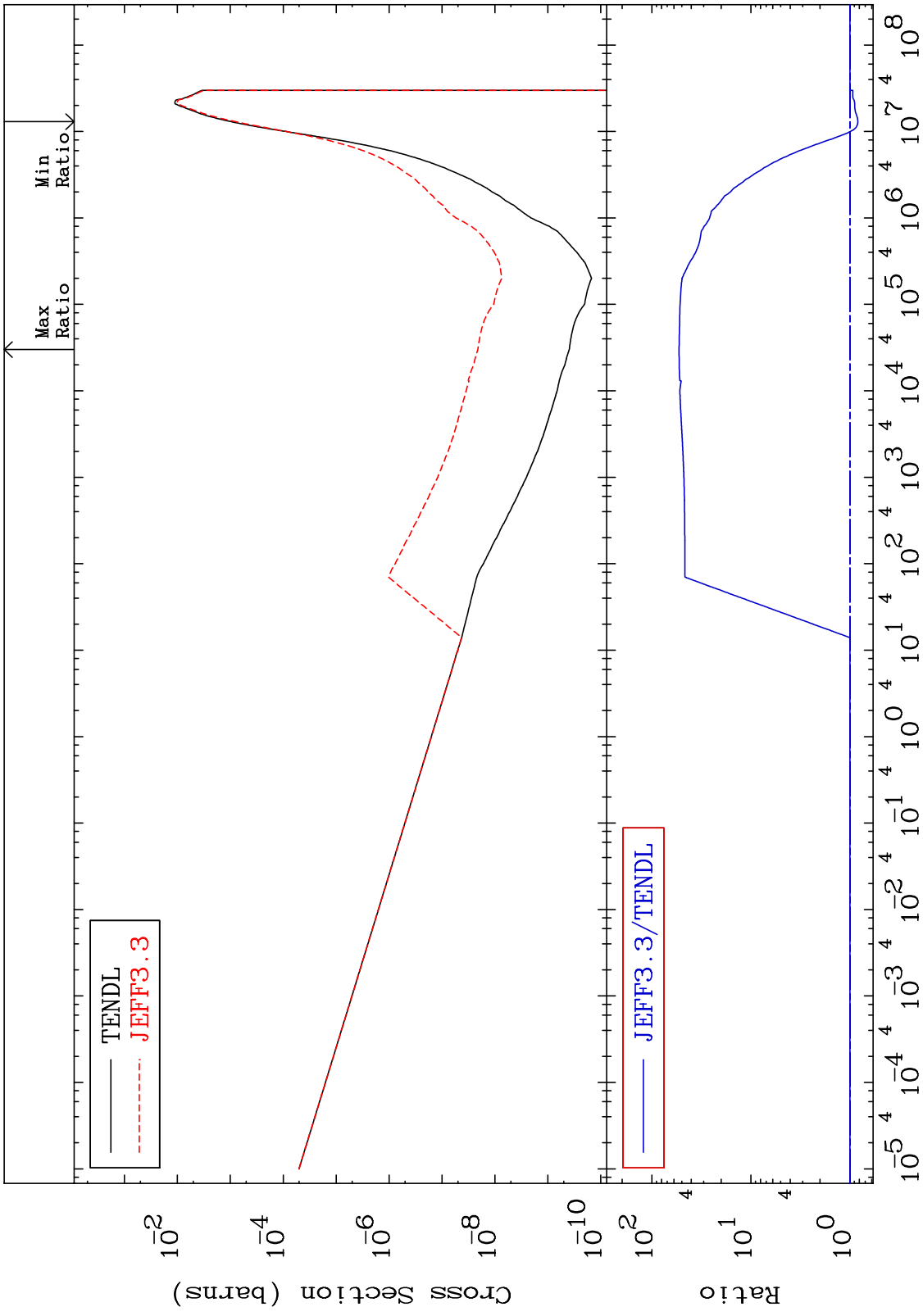
70-Yb-172

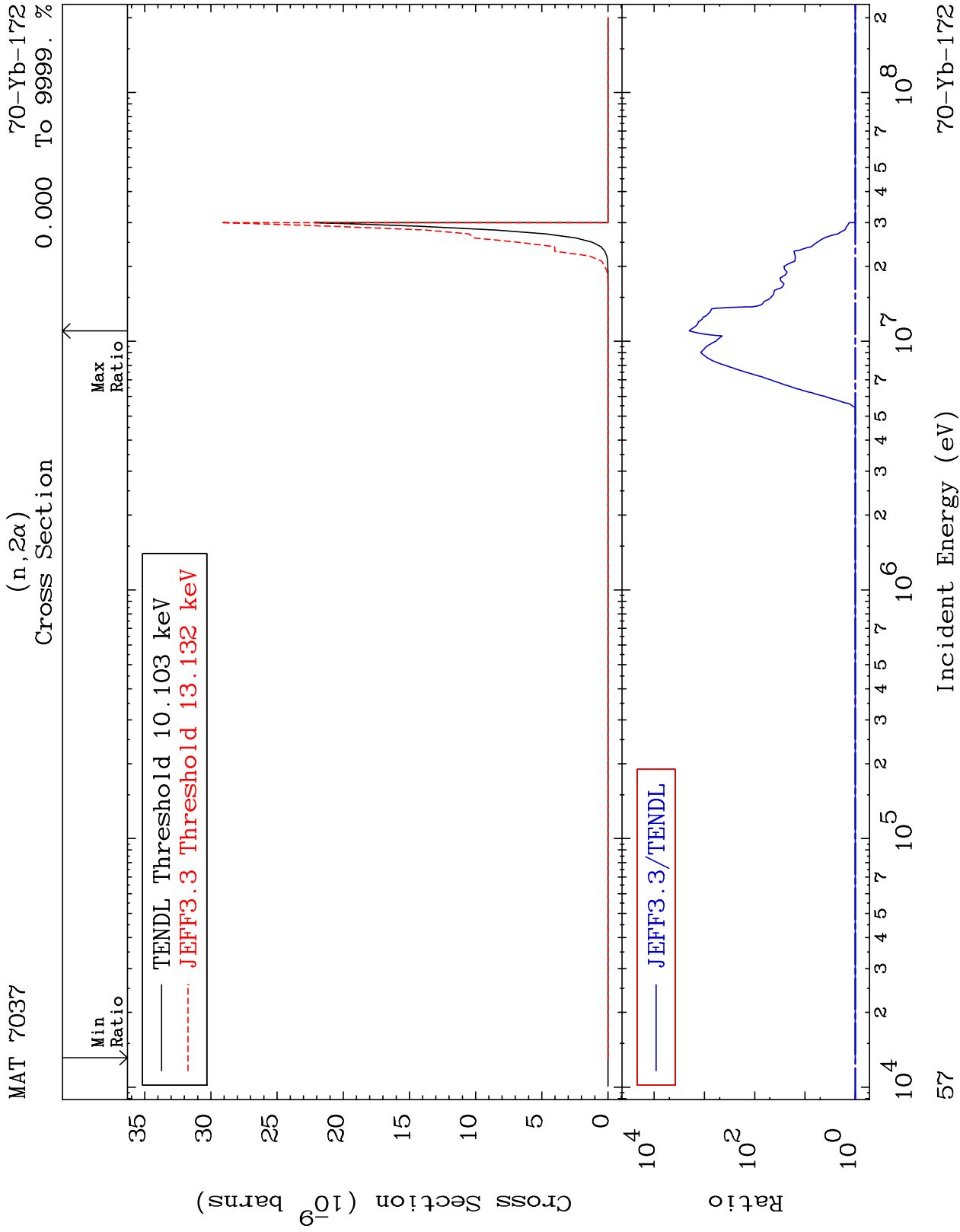
-0.966 To 0.000 %

Cross Section

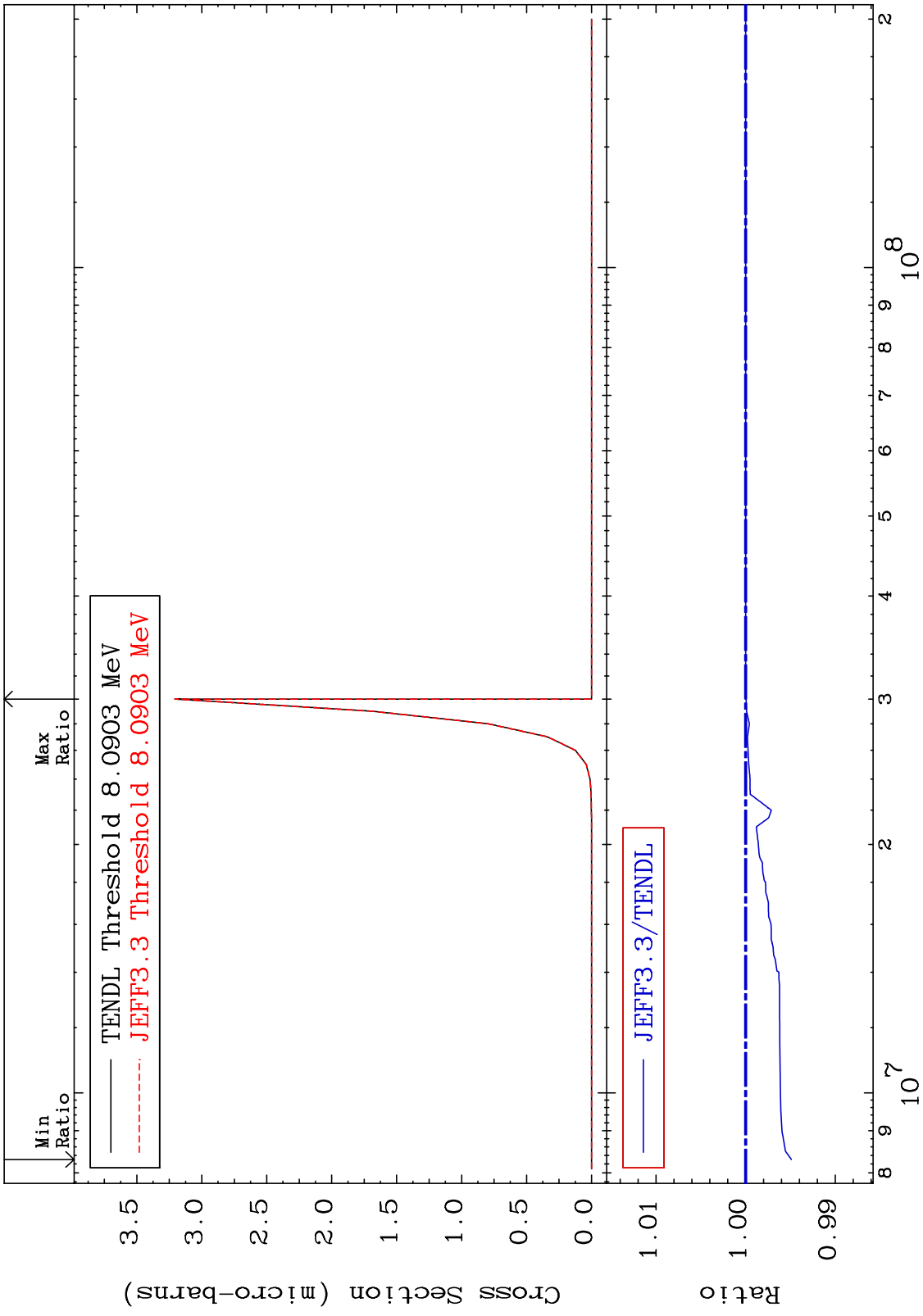


MAT 7037 (n, α) Cross Section 70-Yb-172
 -16.99 To 5221. %





MAT 7037 (n,2p) Cross Section 70-Yb-172 -0.509 To 0.000 %



58 70-Yb-172

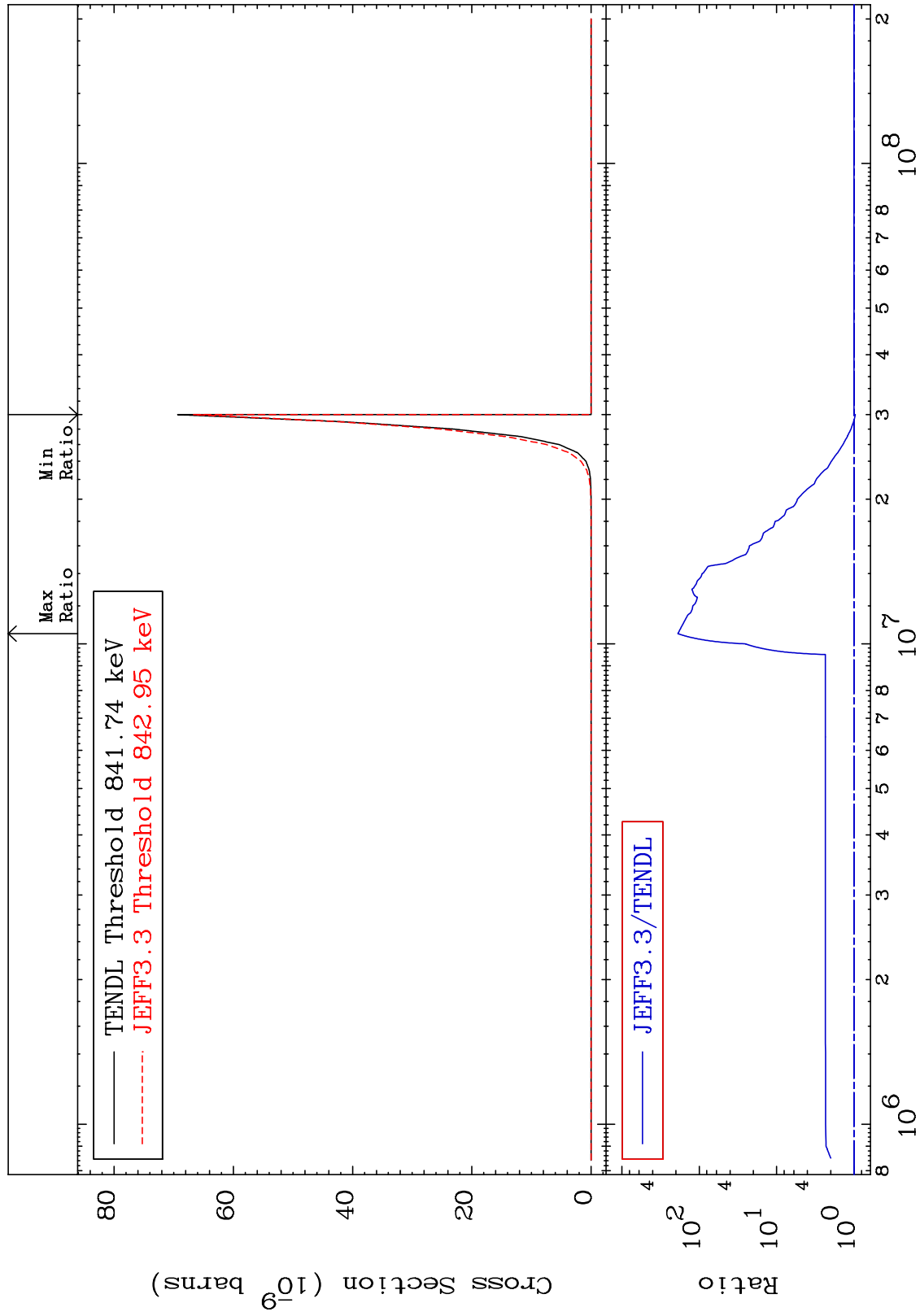
MAT 7037

(n, p) α

70-Yb-172

Cross Section

-3.822 To 9999. %



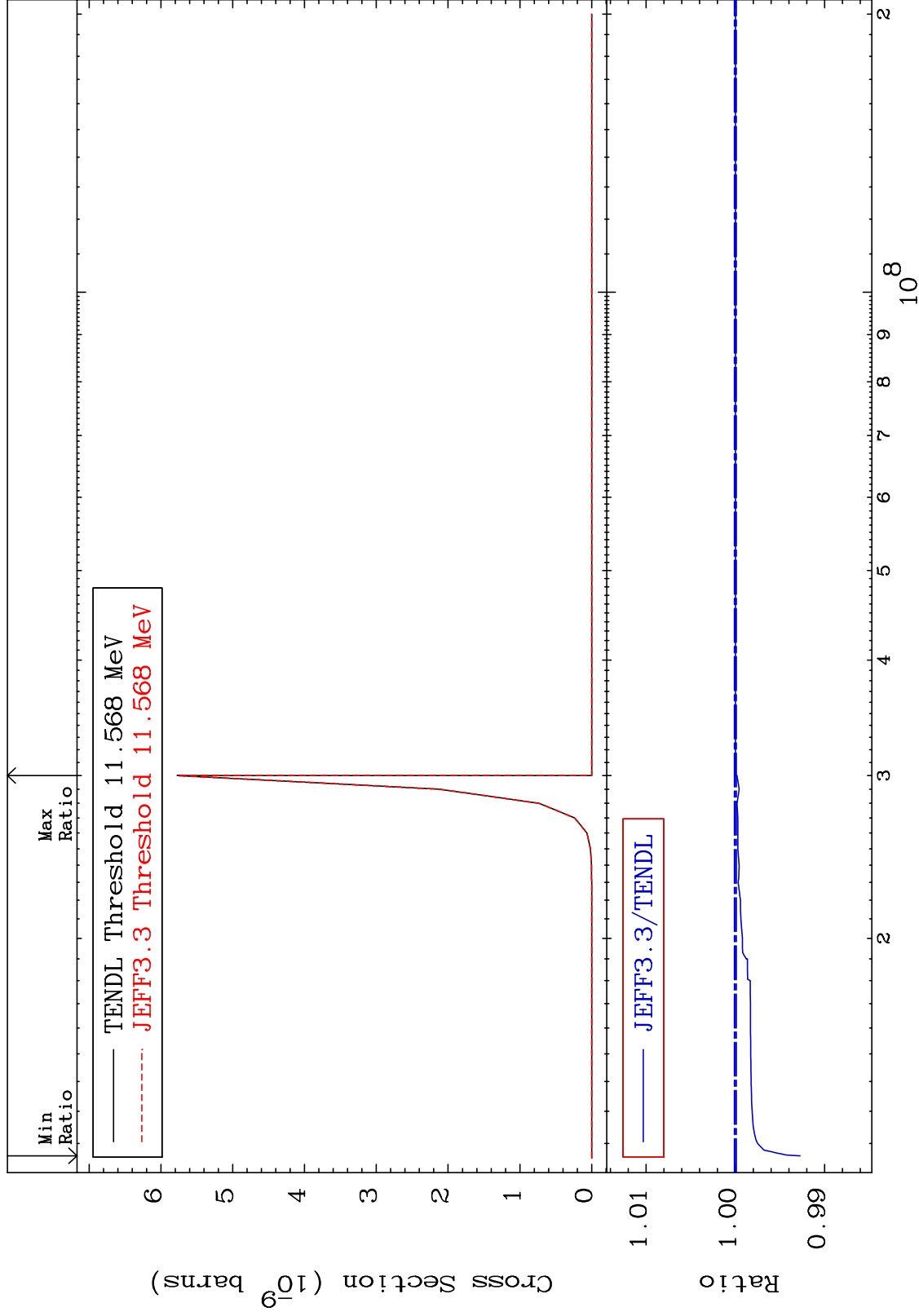
MAT 7037

(n,p) d

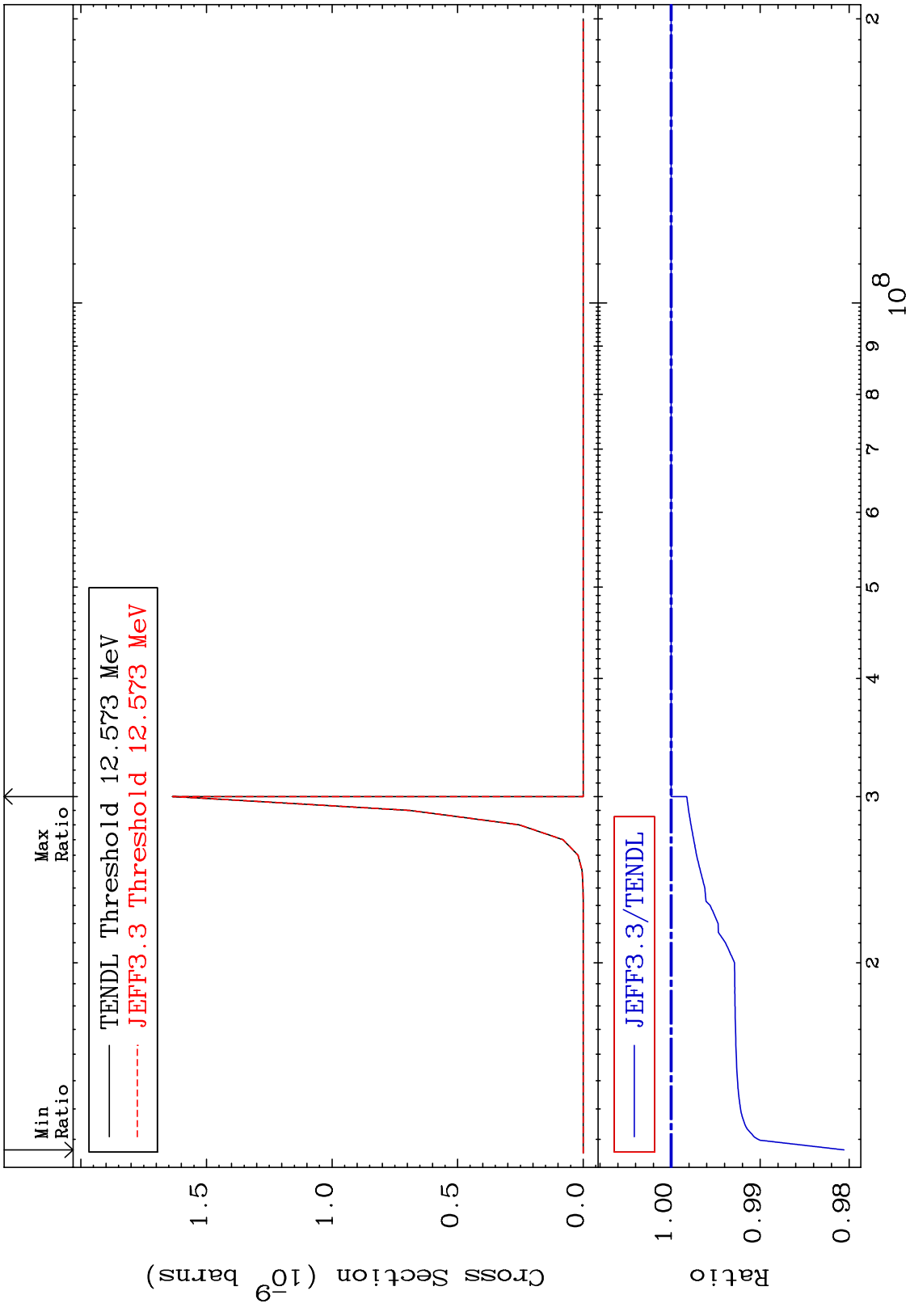
70-Yb-172

Cross Section

-0.724 To 0.000 %



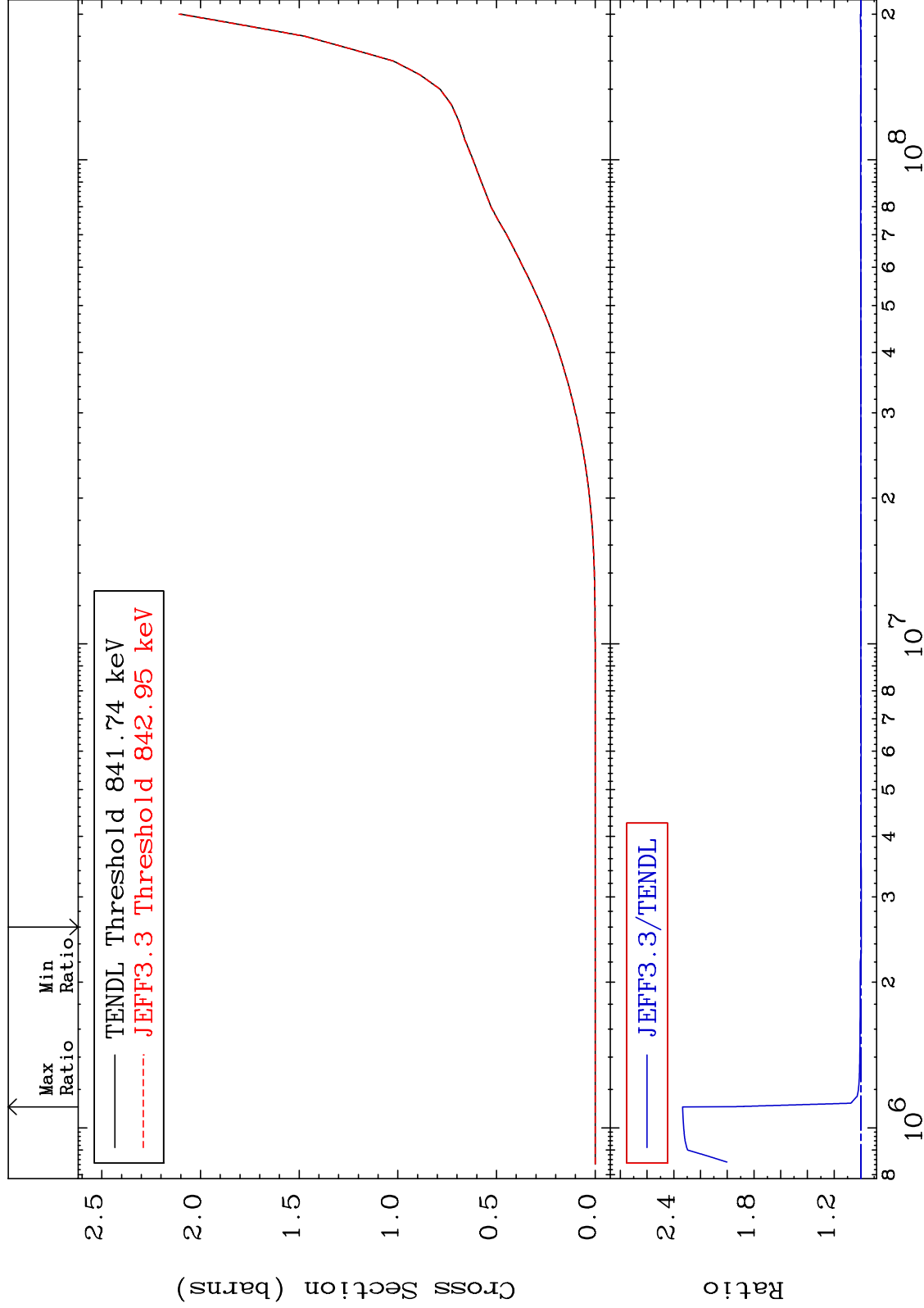
MAT 7037 (n,p) t 70-Yb-172
 Cross Section -1.942 To 0.000 %



MAT 7037

Hydrogen Production
Cross Section

70-Yb-172
-0.359 To 133.4 %

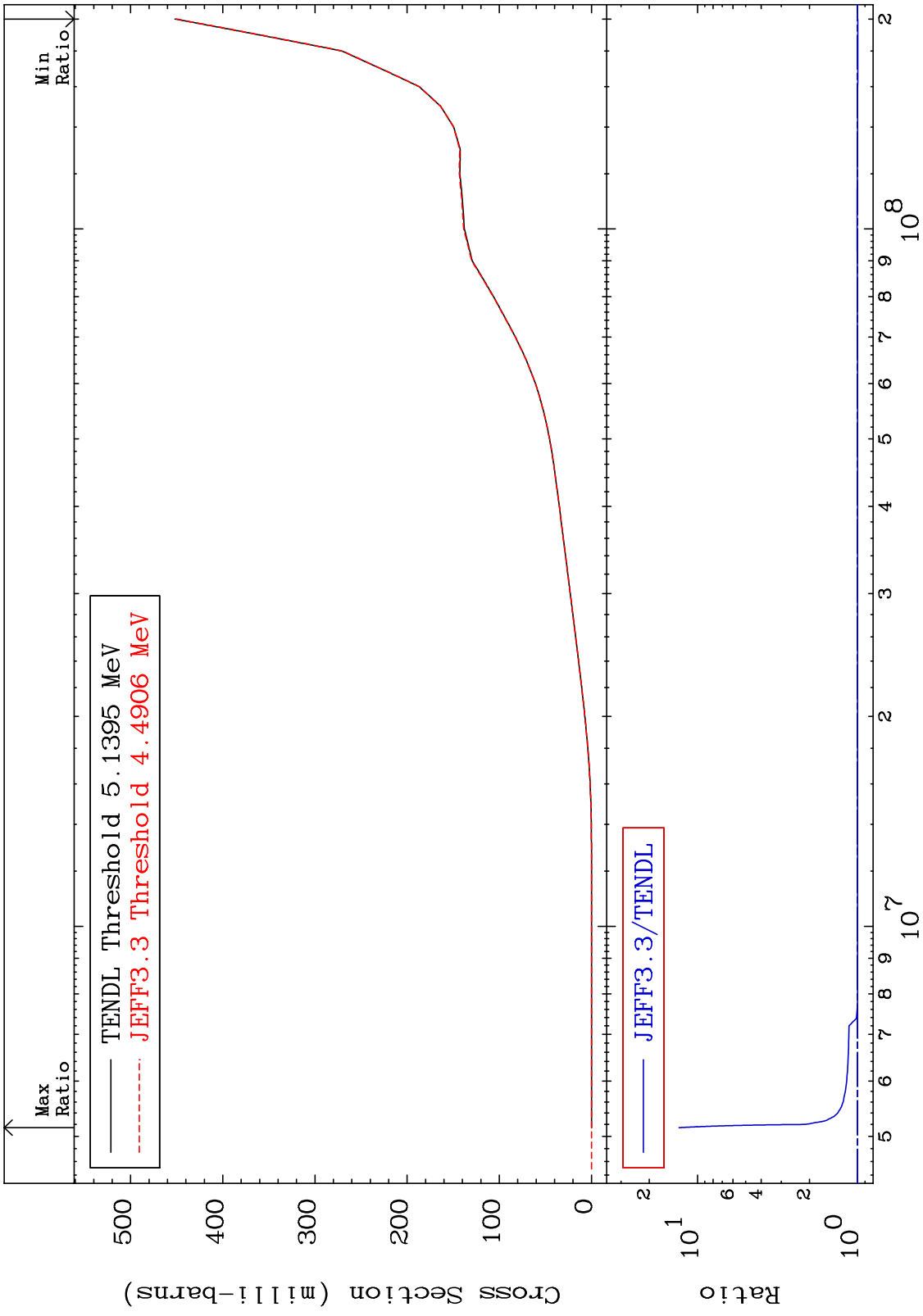


62

Incident Energy (eV)

70-Yb-172

MAT 7037 Deuterium Production Cross Section 70-Yb-172
 -0.350 To 1204. %

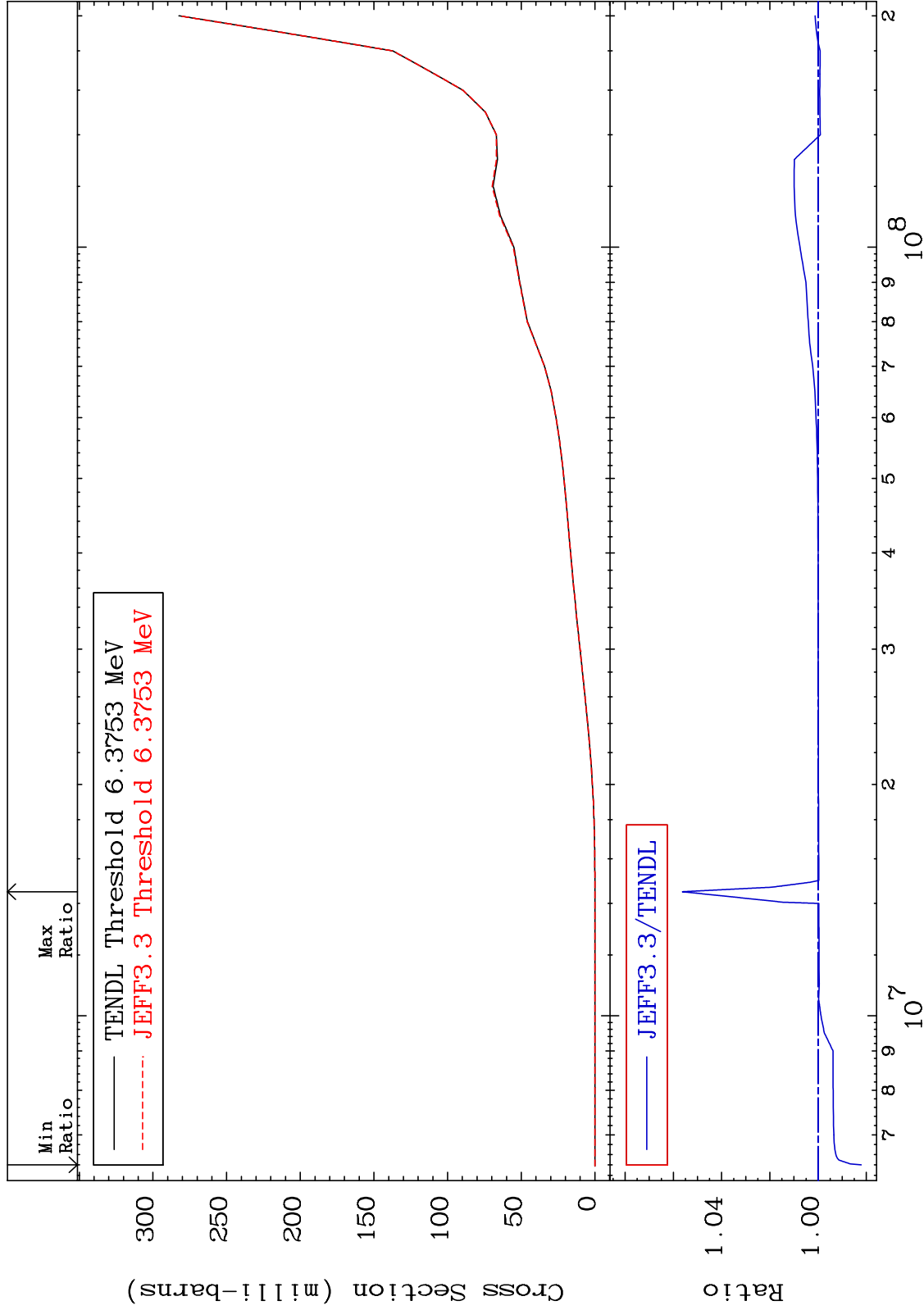


63 Incident Energy (eV) 70-Yb-172

MAT 7037

Tritium Production
Cross Section

70-Yb-172
-1.790 To 5.623 %



64

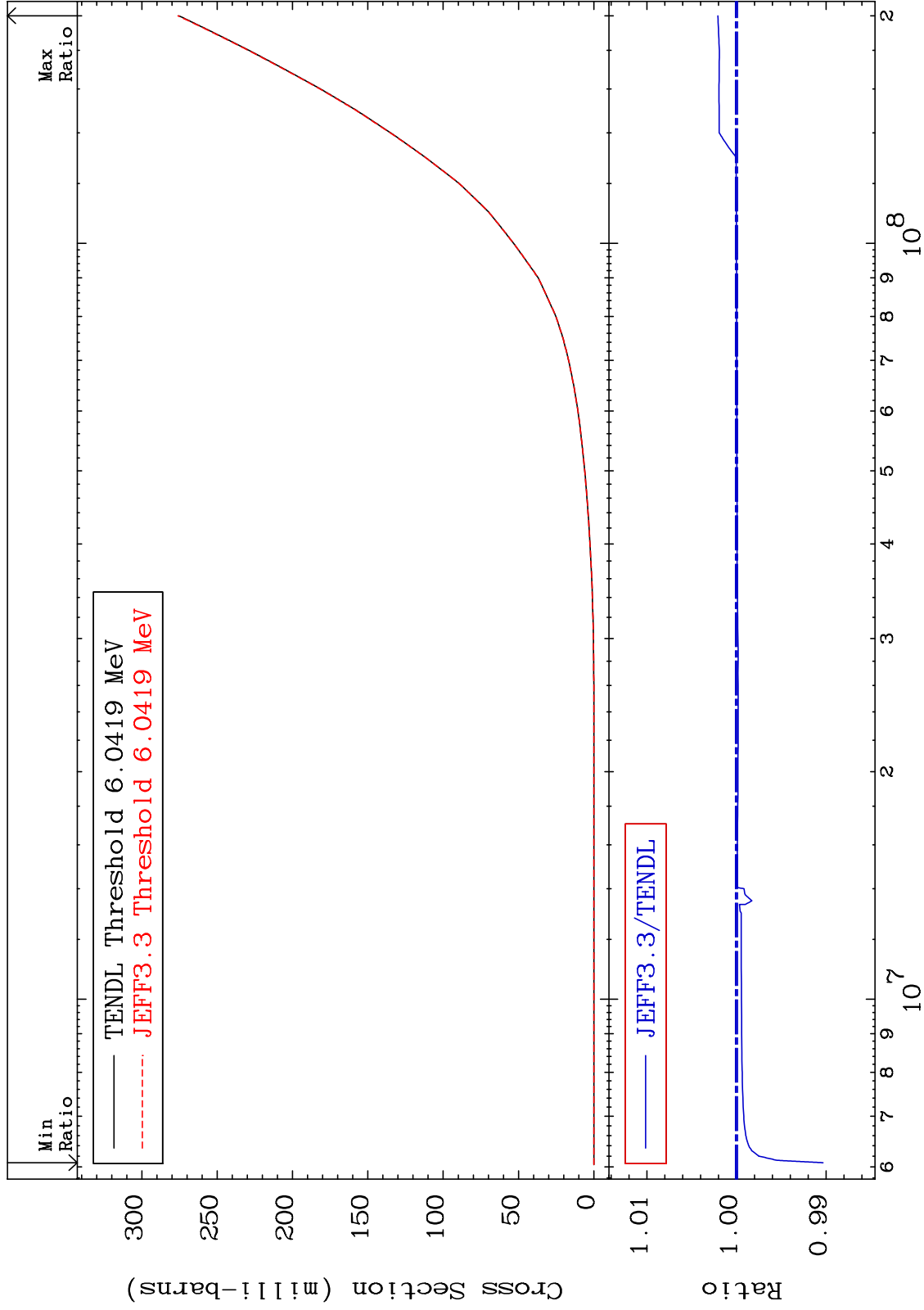
Incident Energy (eV)

70-Yb-172

MAT 7037

He-3 Production
Cross Section

70-Yb-172
-0.966 To 0.207 %



65

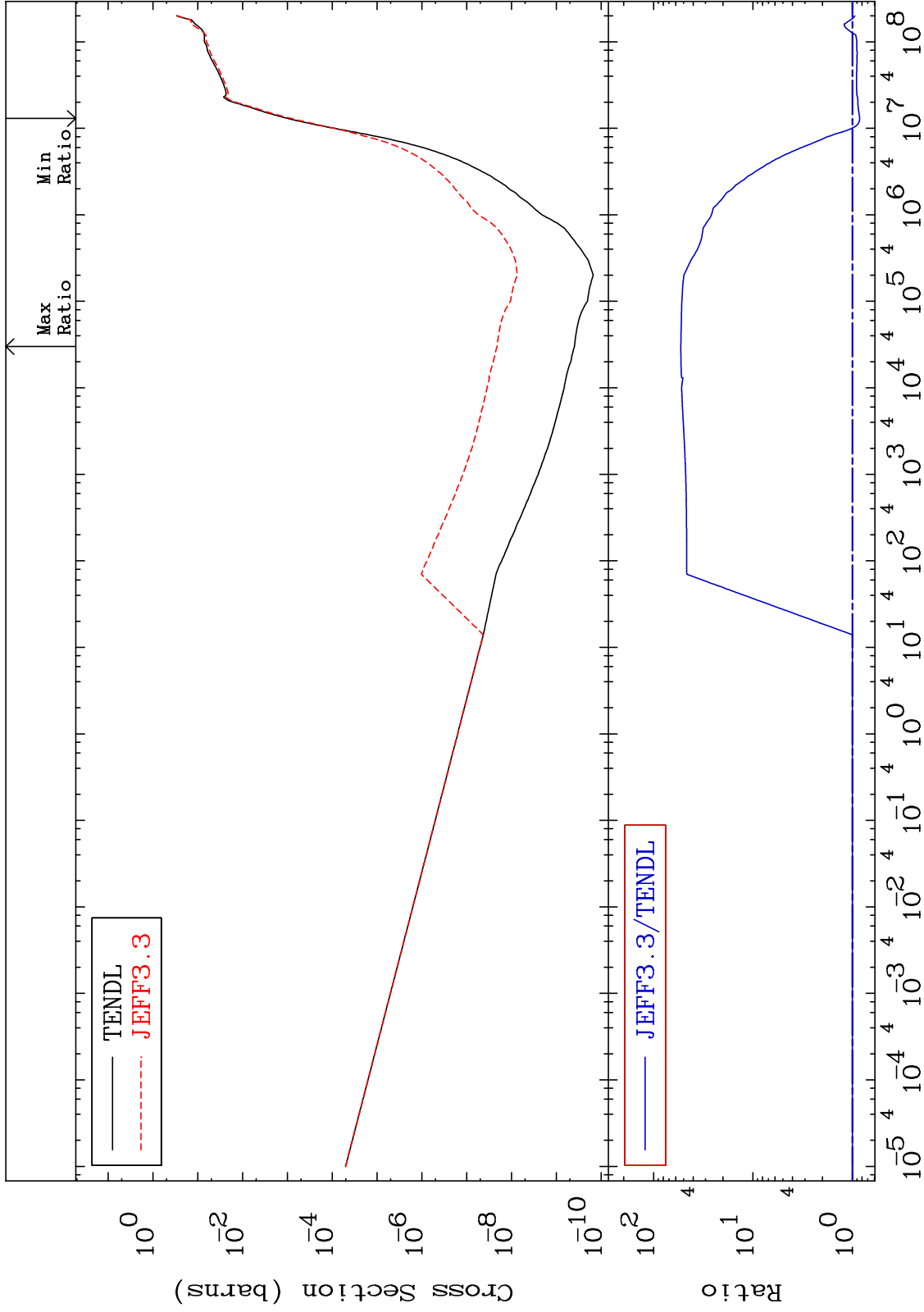
Incident Energy (eV)

70-Yb-172

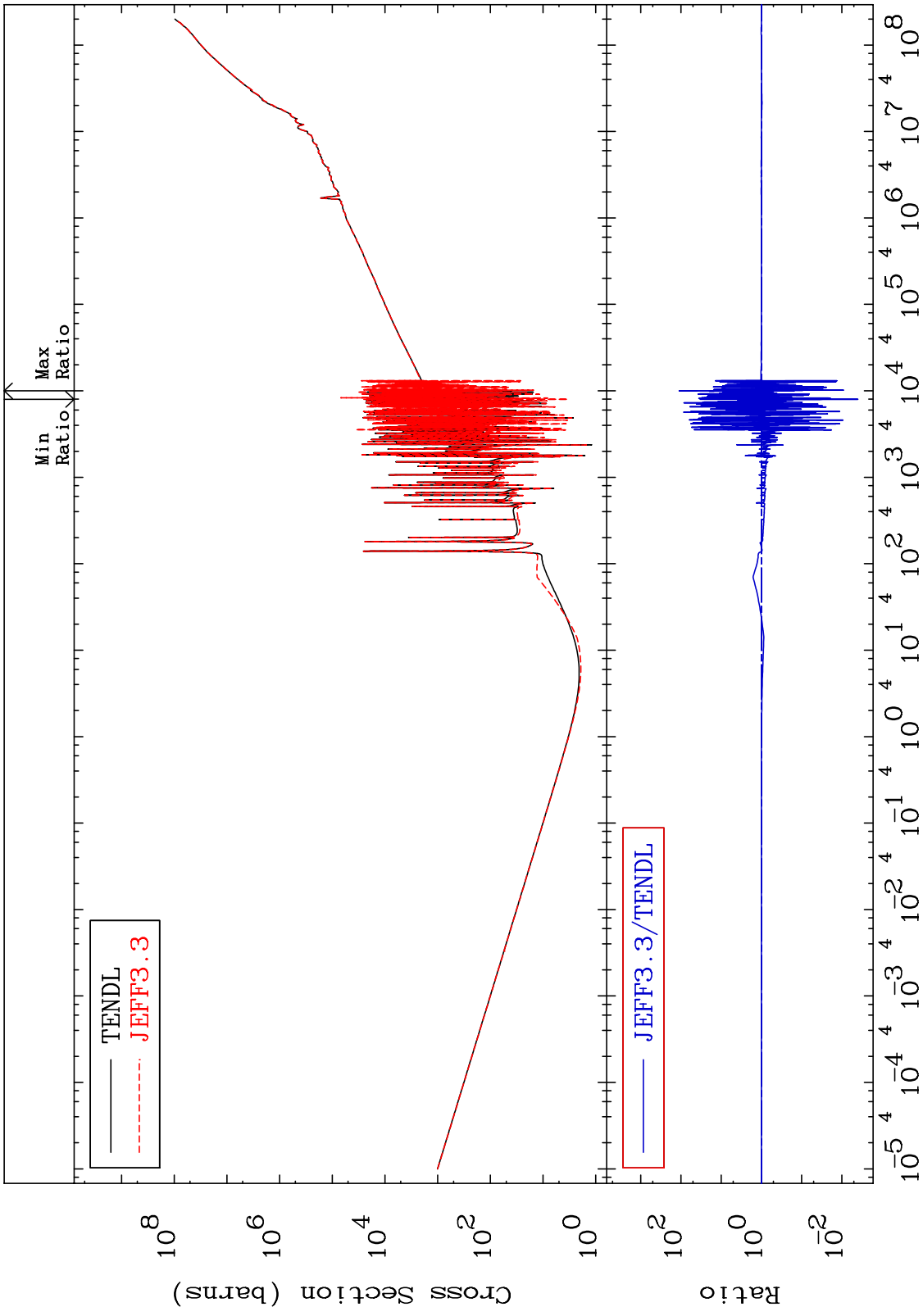
MAT 7037

He-4 Production
Cross Section

70-Yb-172
-15.55 To 5221. %



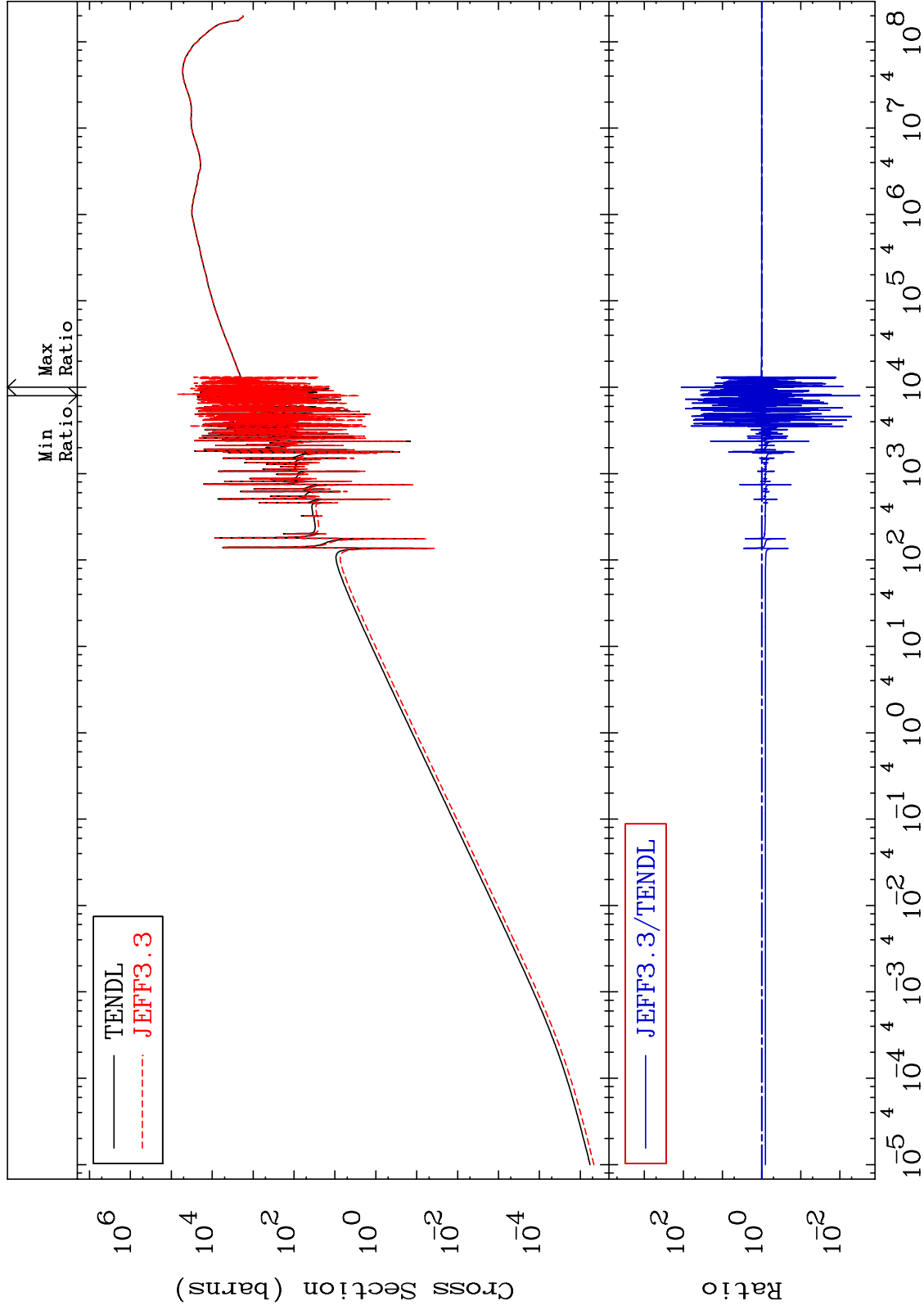
MAT 7037 Kerma total (eV-barns) 70-Yb-172
 Cross Section -99.60 To 9999. %



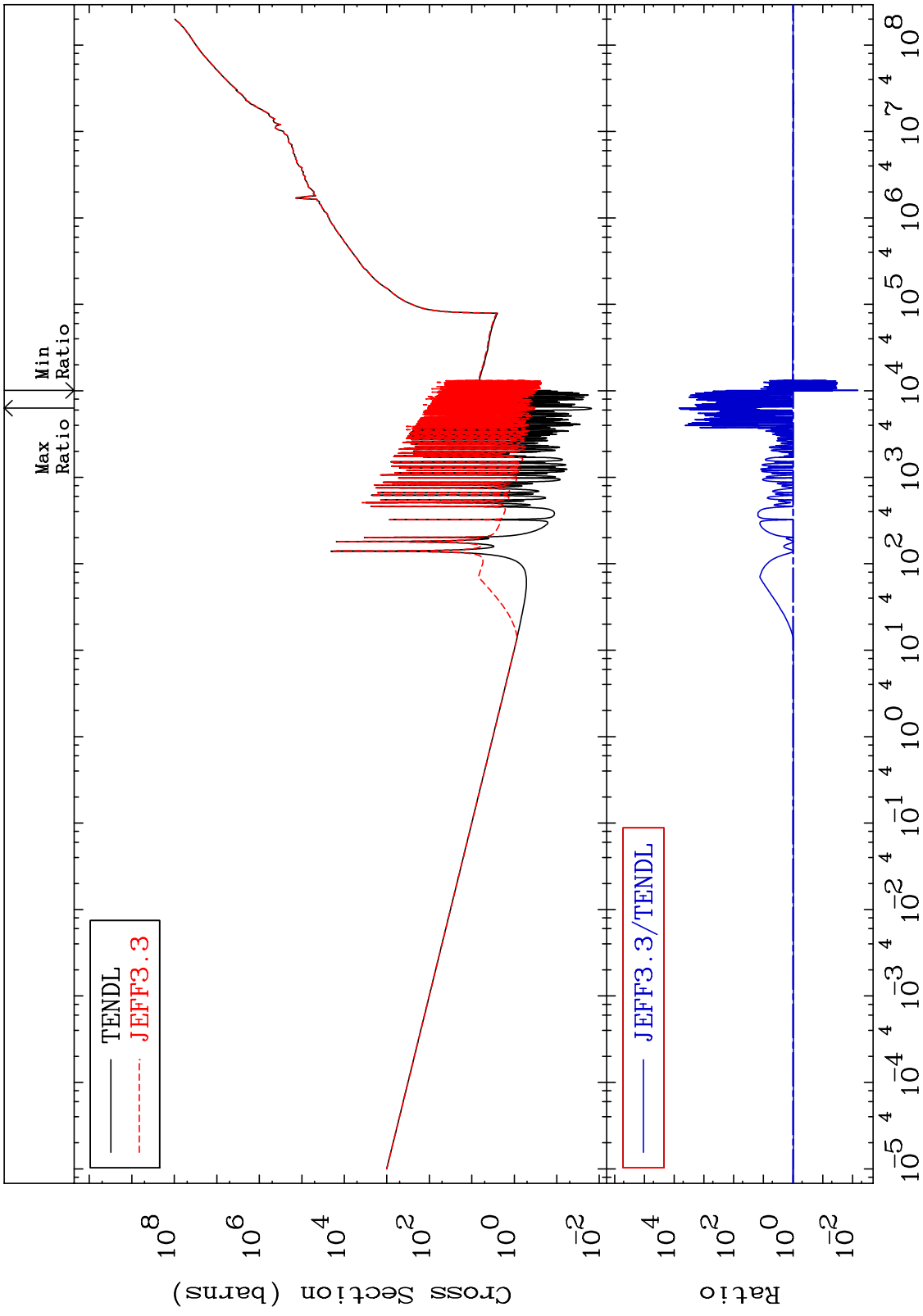
MAT 7037

Kerma elastic
Cross Section

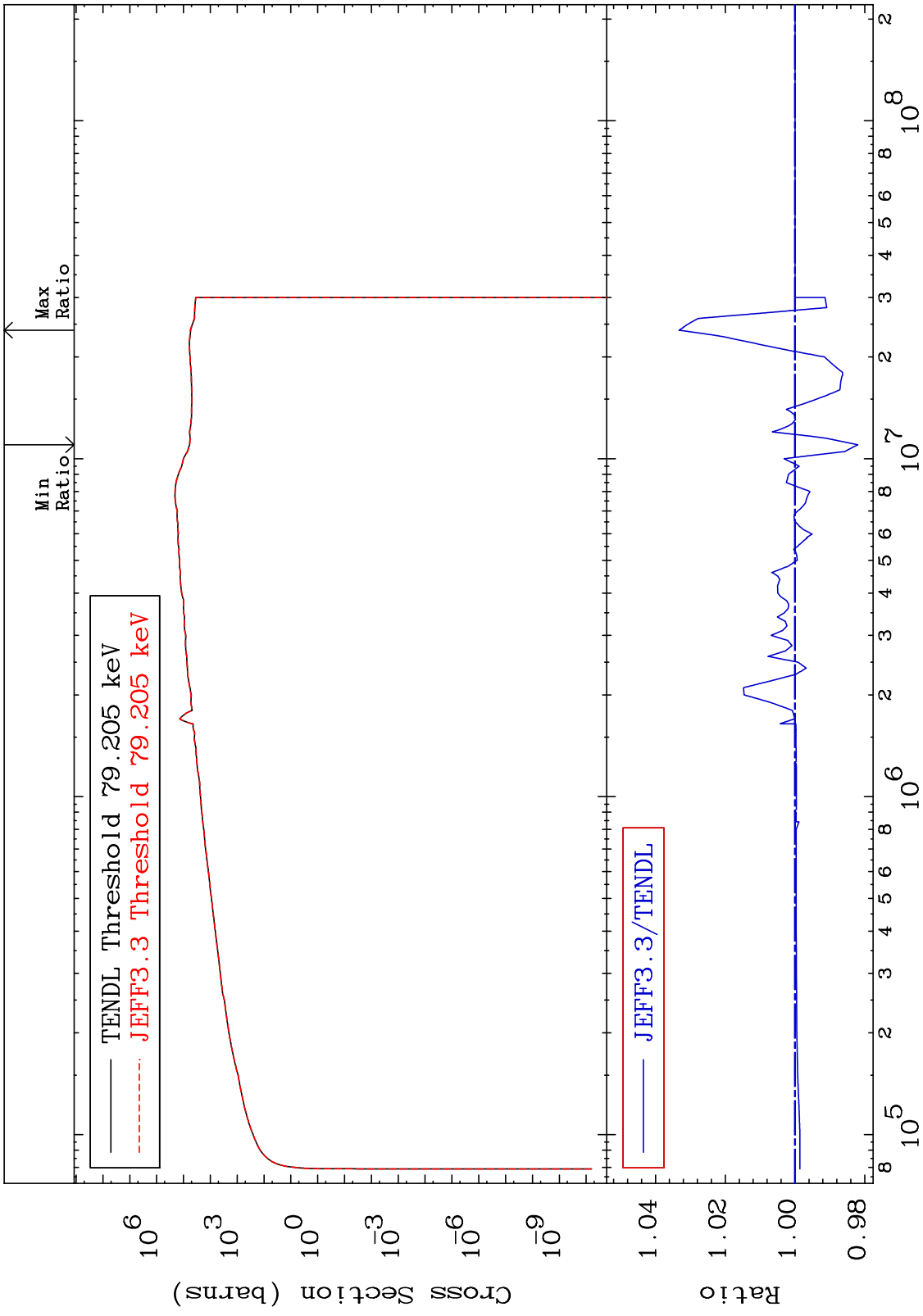
70-Yb-172
-99.69 To 9999. %



MAT 7037 Kerma non-elastic (all but mt2) 70-Yb-172
 Cross Section -99.33 To 9999. %



MAT 7037 Kerma inelastic (mt51-91) 70-Yb-172
Cross Section -1.802 To 3.325 %

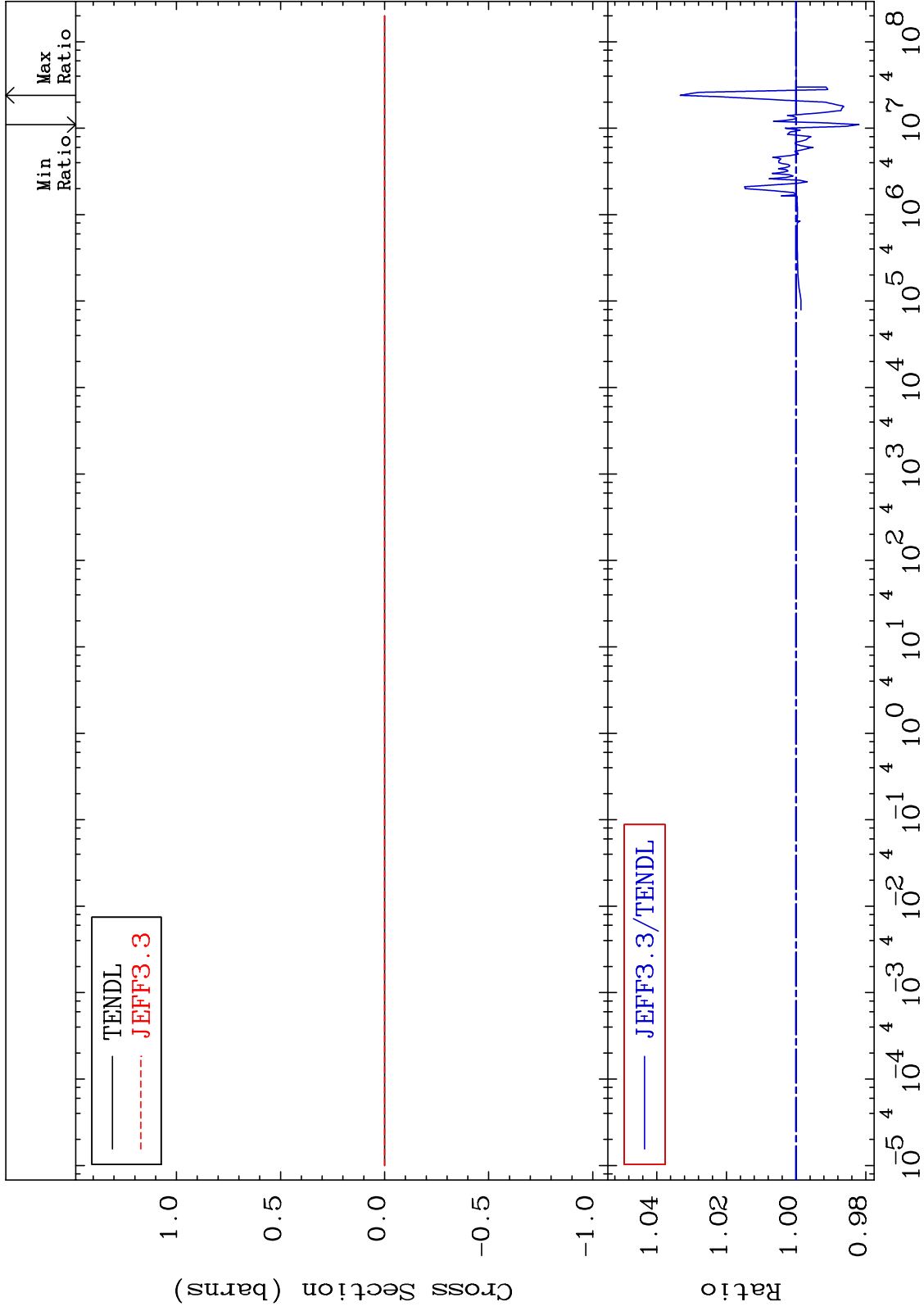


70 70-Yb-172

MAT 7037

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

70-Yb-172
-1.802 To 3.325 %



71

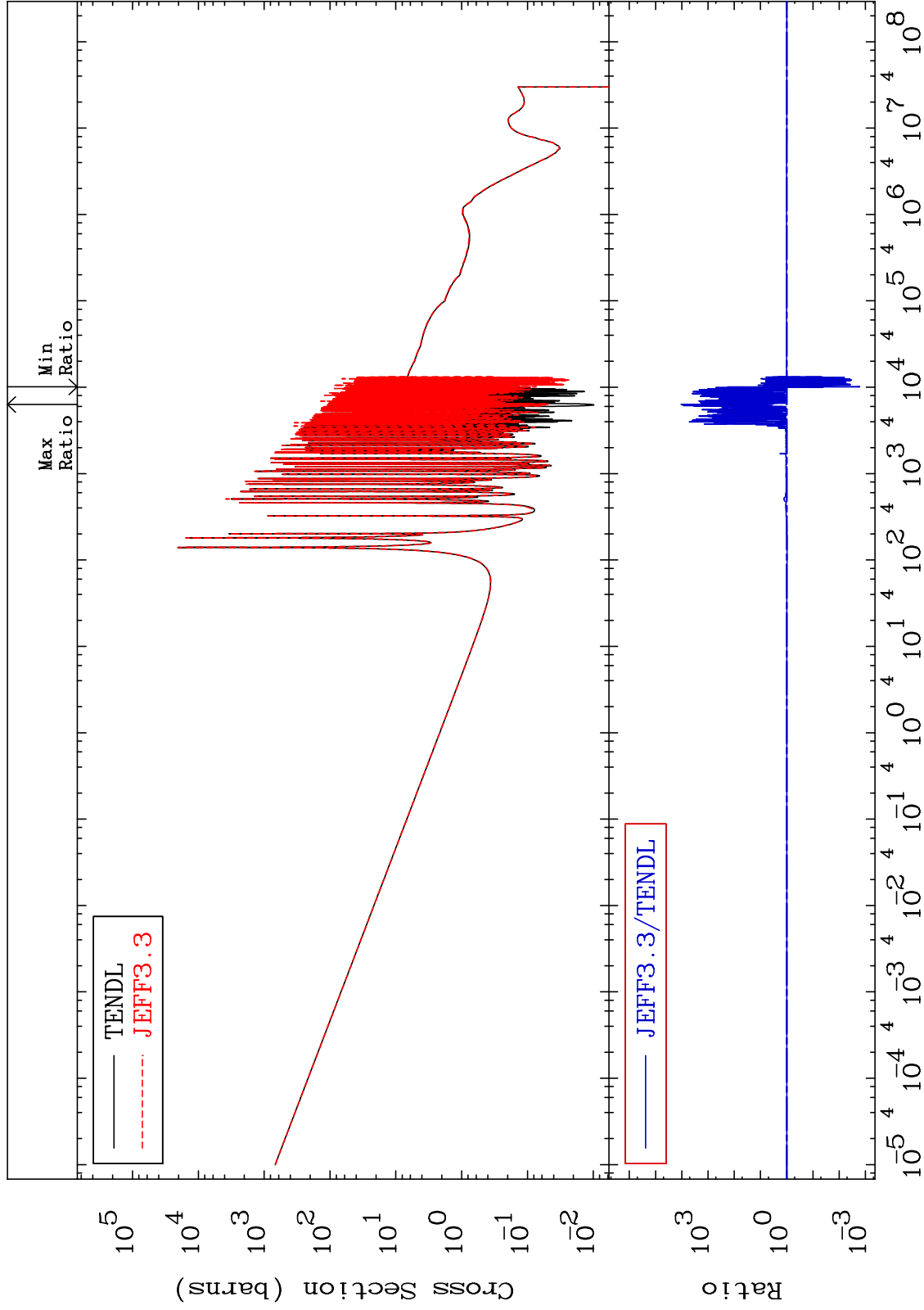
Incident Energy (eV)

70-Yb-172

MAT 7037

Kerma capture (mt102)
Cross Section

70-Yb-172
-99.83 To 9999. %



72

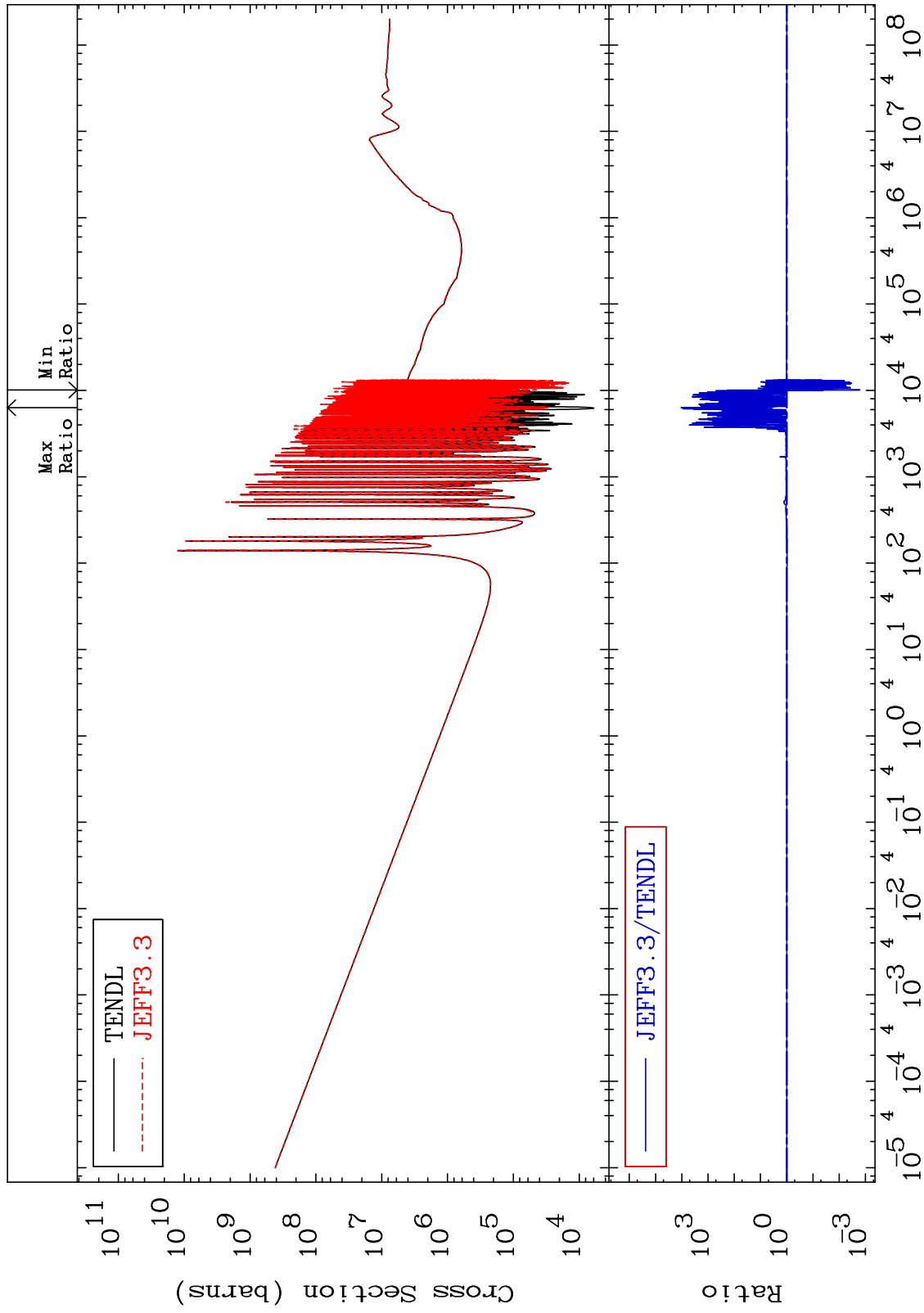
Incident Energy (eV)

70-Yb-172

MAT 7037

Total photon (eV-barns)
Cross Section

70-Yb-172
-99.83 To 9999. %

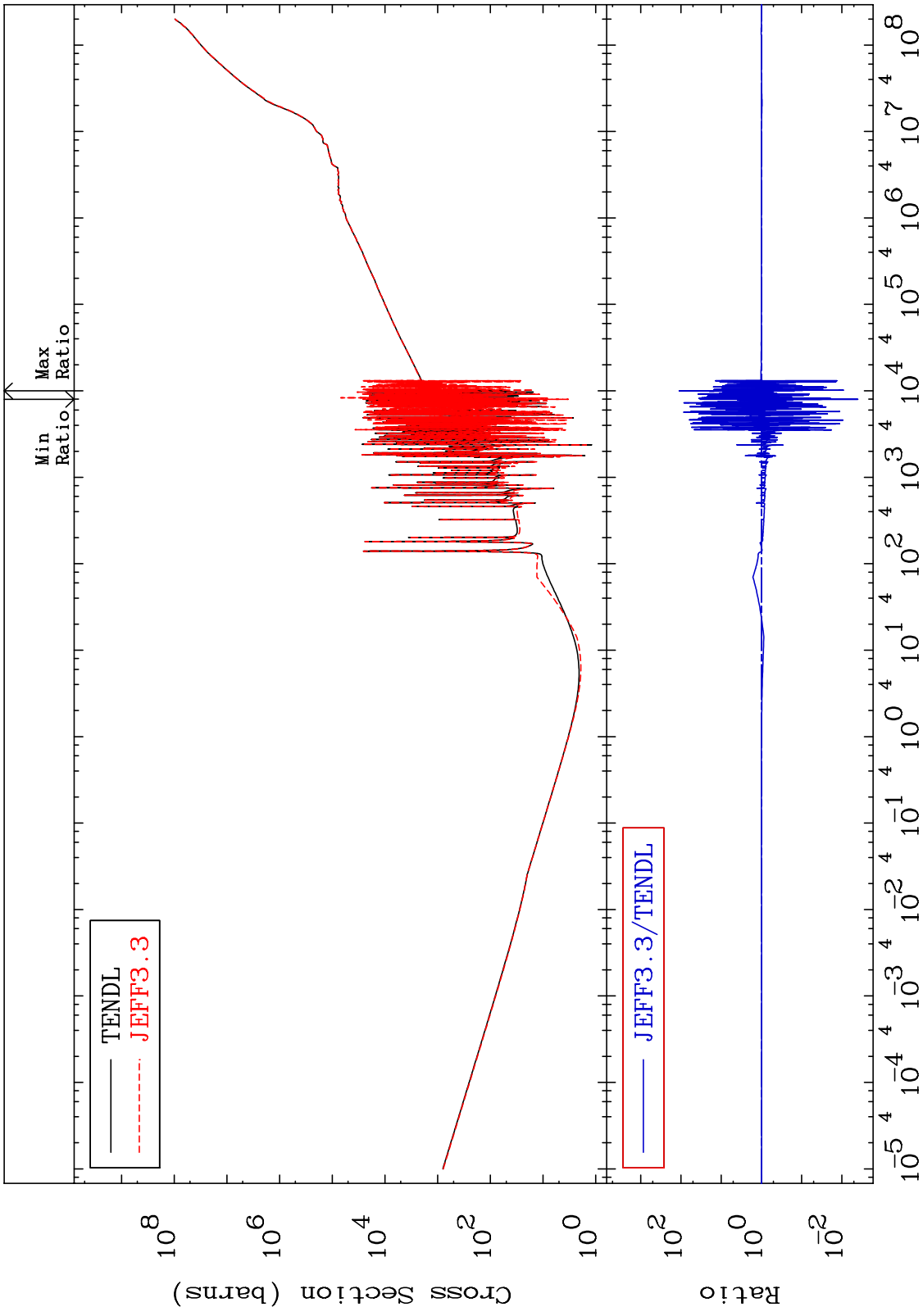


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Incident Energy (eV)

70-Yb-172

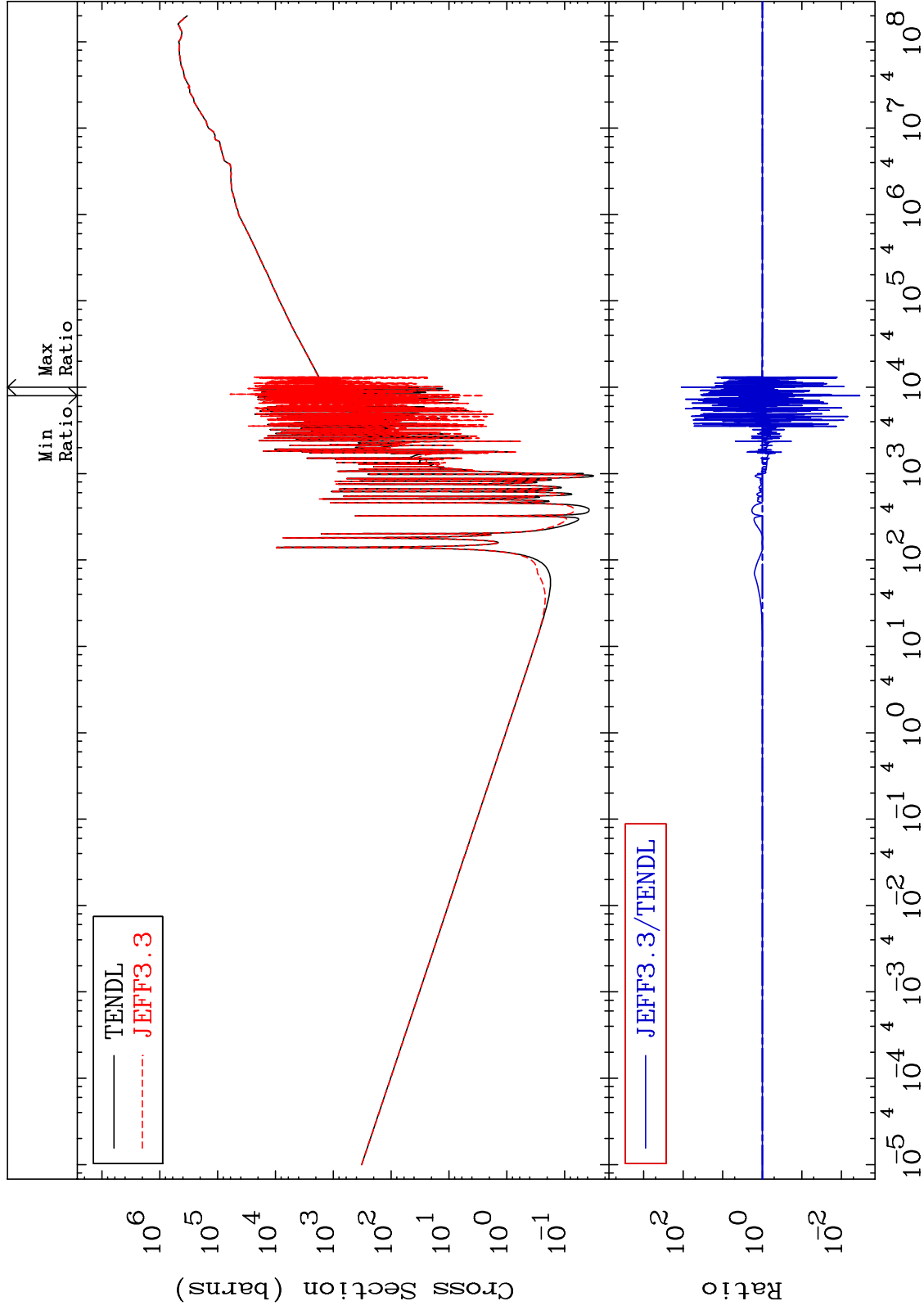
MAT 7037 Total kinematic kerma (high limit) 70-Yb-172
 Cross Section -99.60 To 9999. %



MAT 7037

Dpa total (eV-barns)
Cross Section

70-Yb-172
-99.66 To 9999. %



75

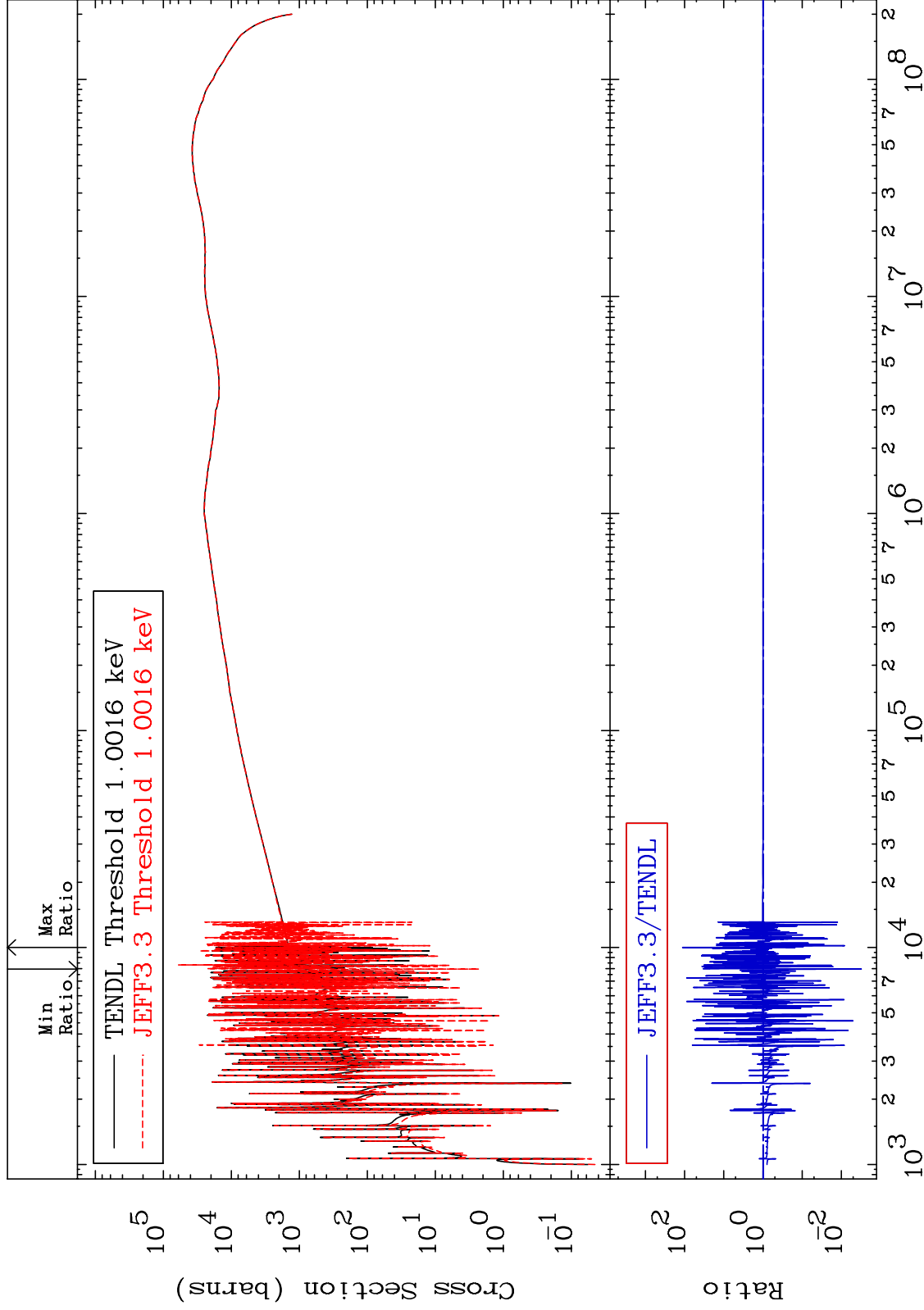
Incident Energy (eV)

70-Yb-172

MAT 7037

Dpa elastic (mt2)
Cross Section

70-Yb-172
-99.69 To 9999. %



76

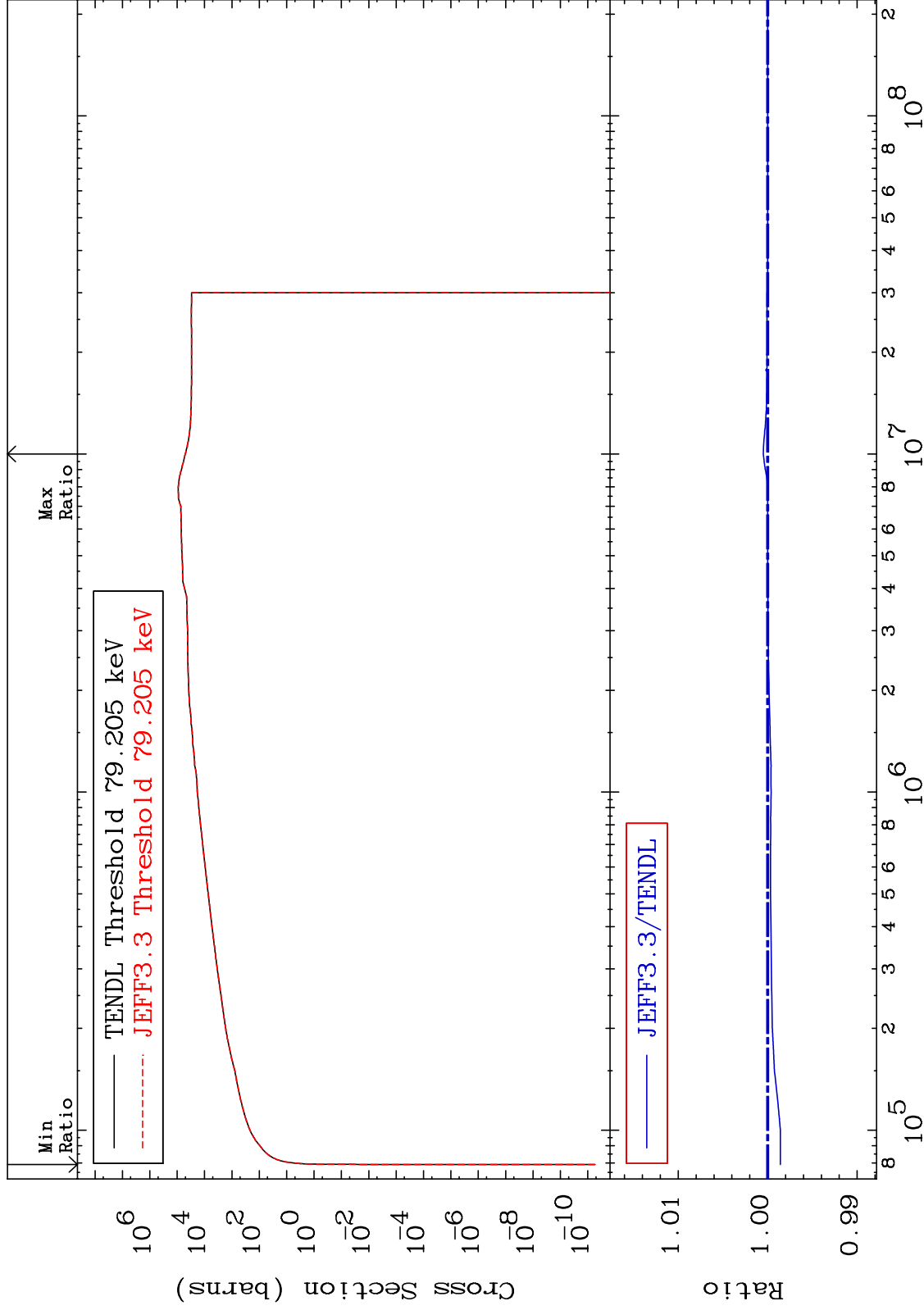
Incident Energy (eV)

70-Yb-172

MAT 7037

Dpa inelastic (mt51-91)
Cross Section

70-Yb-172
-0.142 To 0.049 %



77

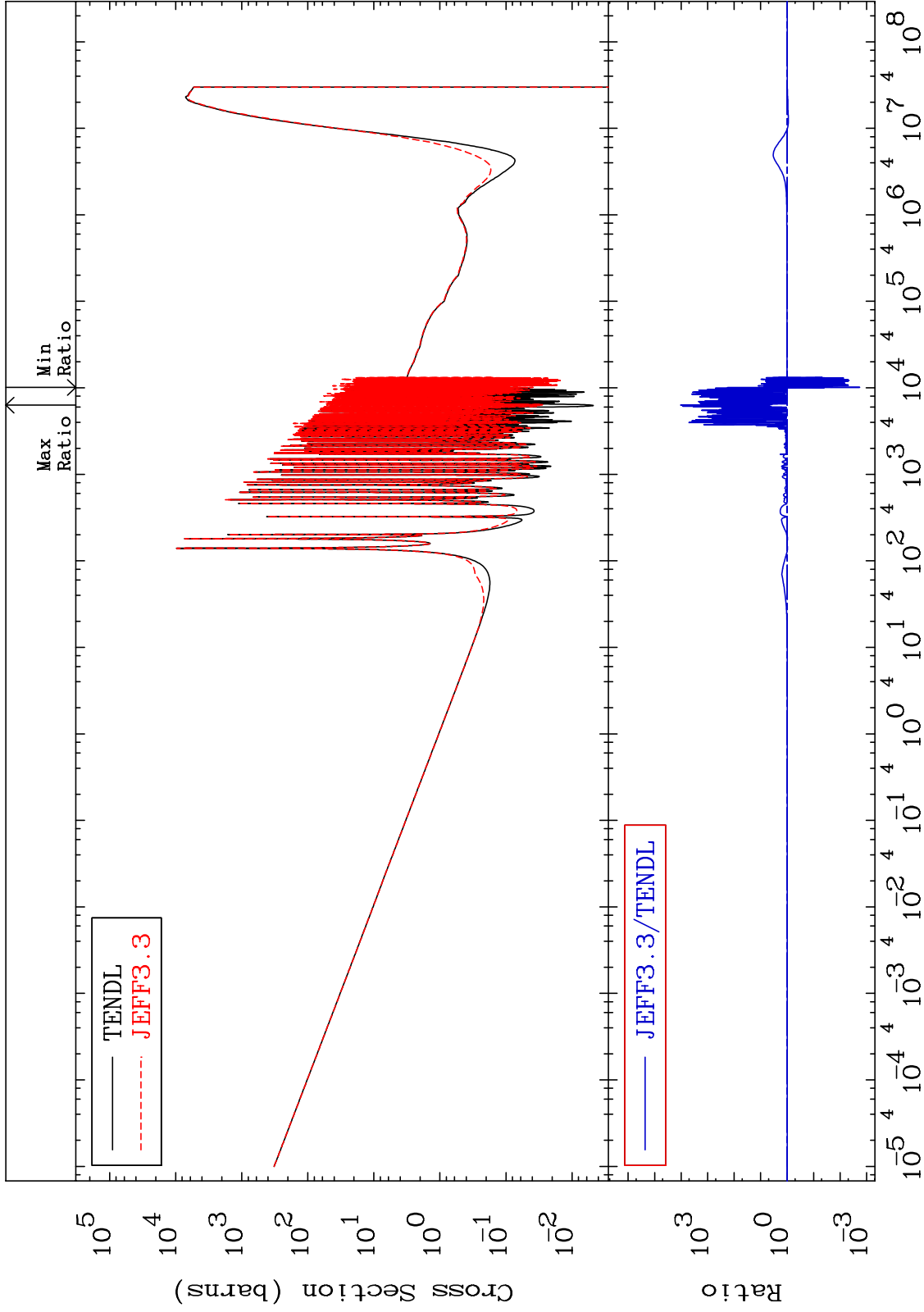
Incident Energy (eV)

70-Yb-172

MAT 7037

Dpa disappearance (mt102 -120)
Cross Section

70-Yb-172
-99.82 To 9999. %



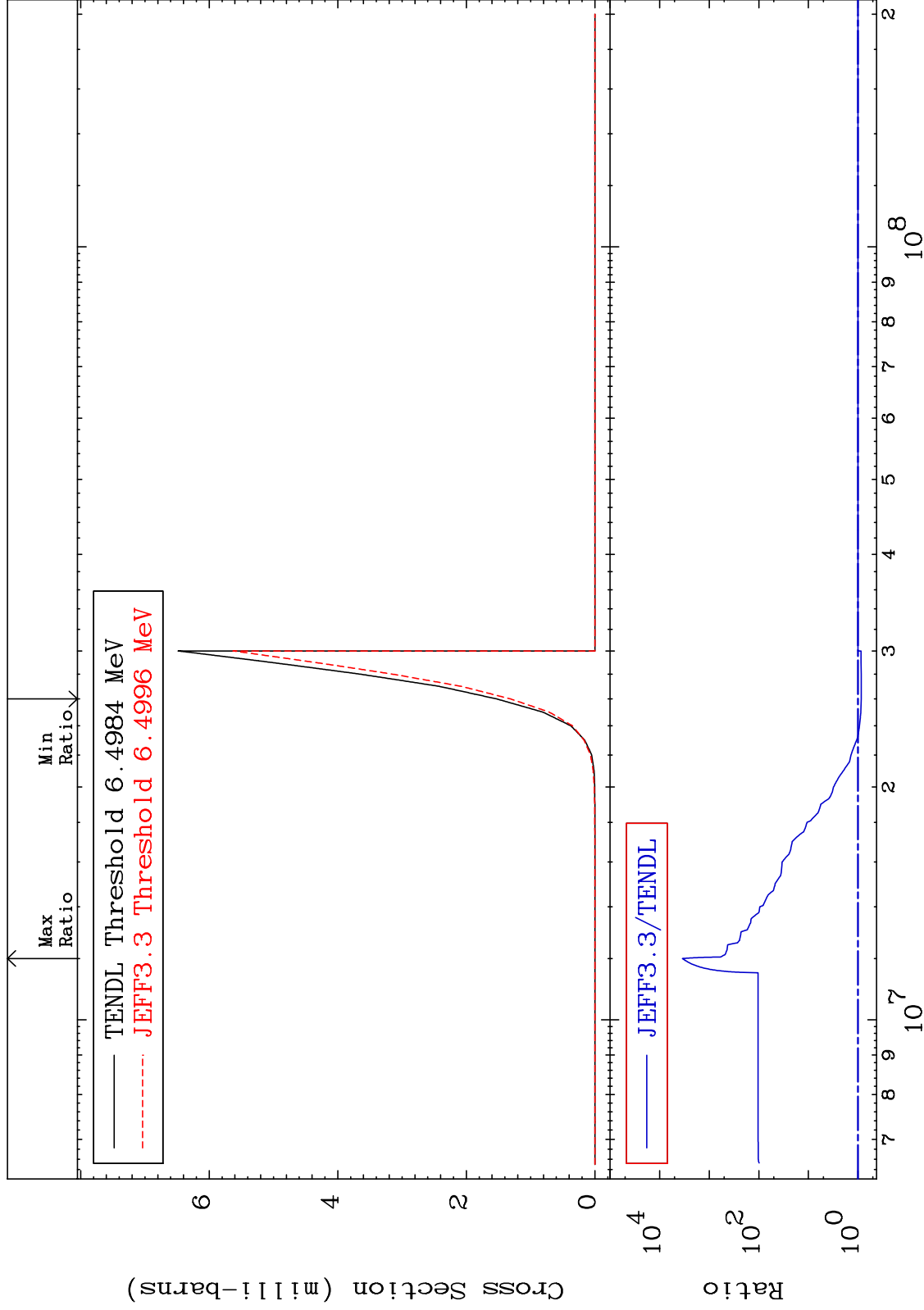
78

Incident Energy (eV)

70-Yb-172

MAT 7037

(n,2n) α :68-Er-167g 70-Yb-172
Radionuclide Production Cross Section -14.15 To 9999. %

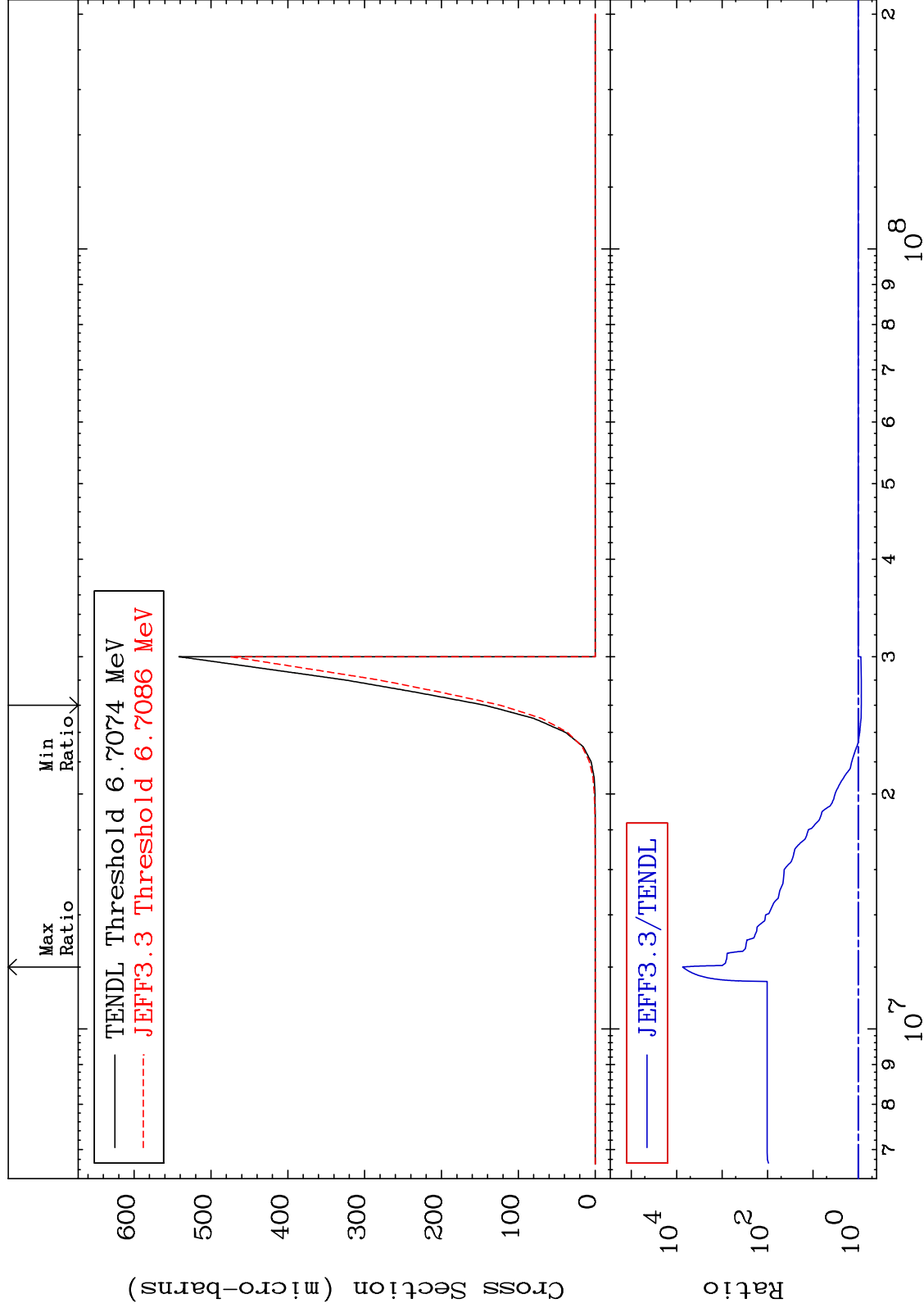


MAT 7037

(n,2n) α : 68-Er-167m3

70-Yb-172

Radionuclide Production Cross Section -14.11 To 9999. %

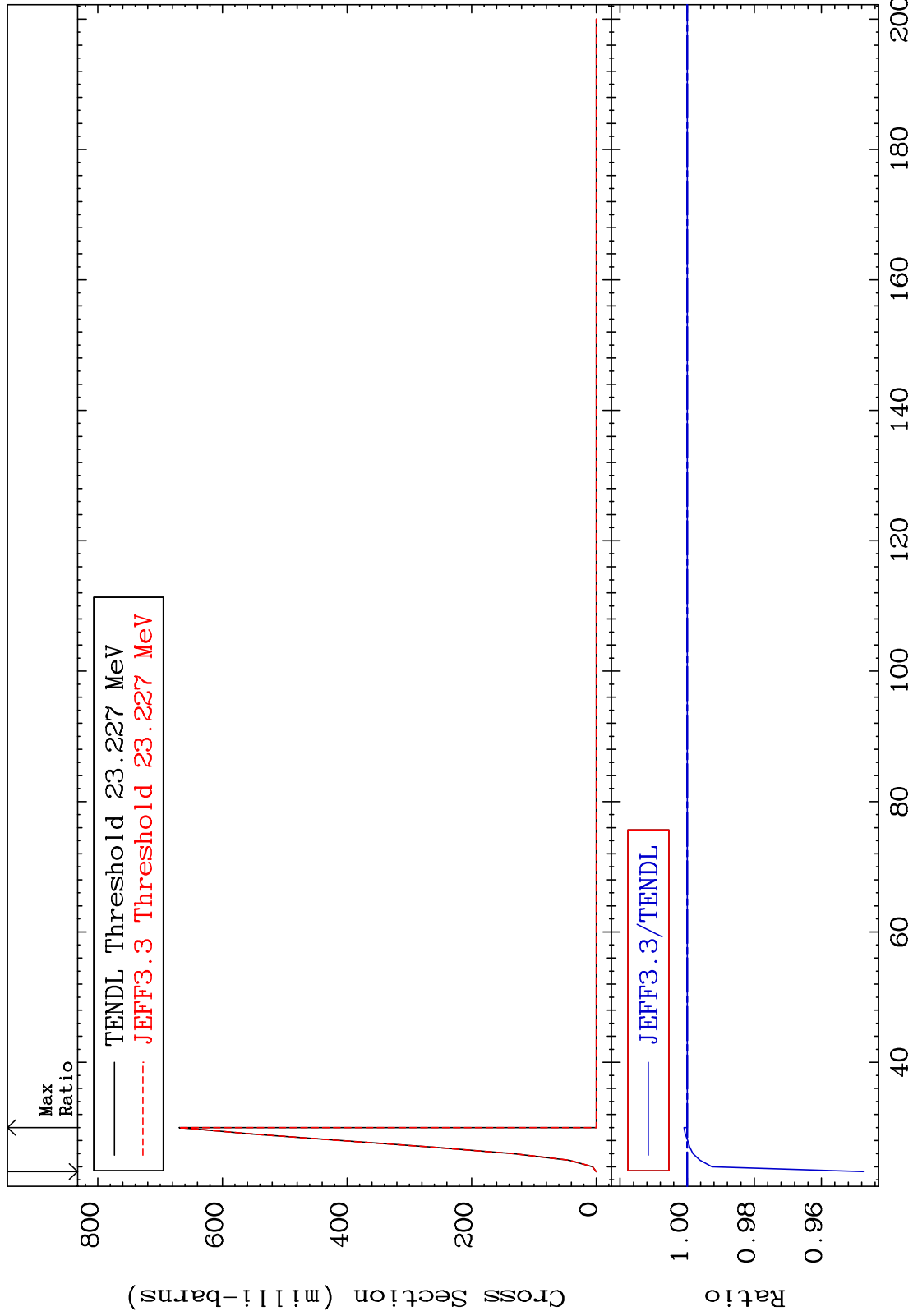


MAT 7037

(n,4n):70-Yb-169g

70-Yb-172

Radionuclide Production Cross Section -5.248 To 0.094 %

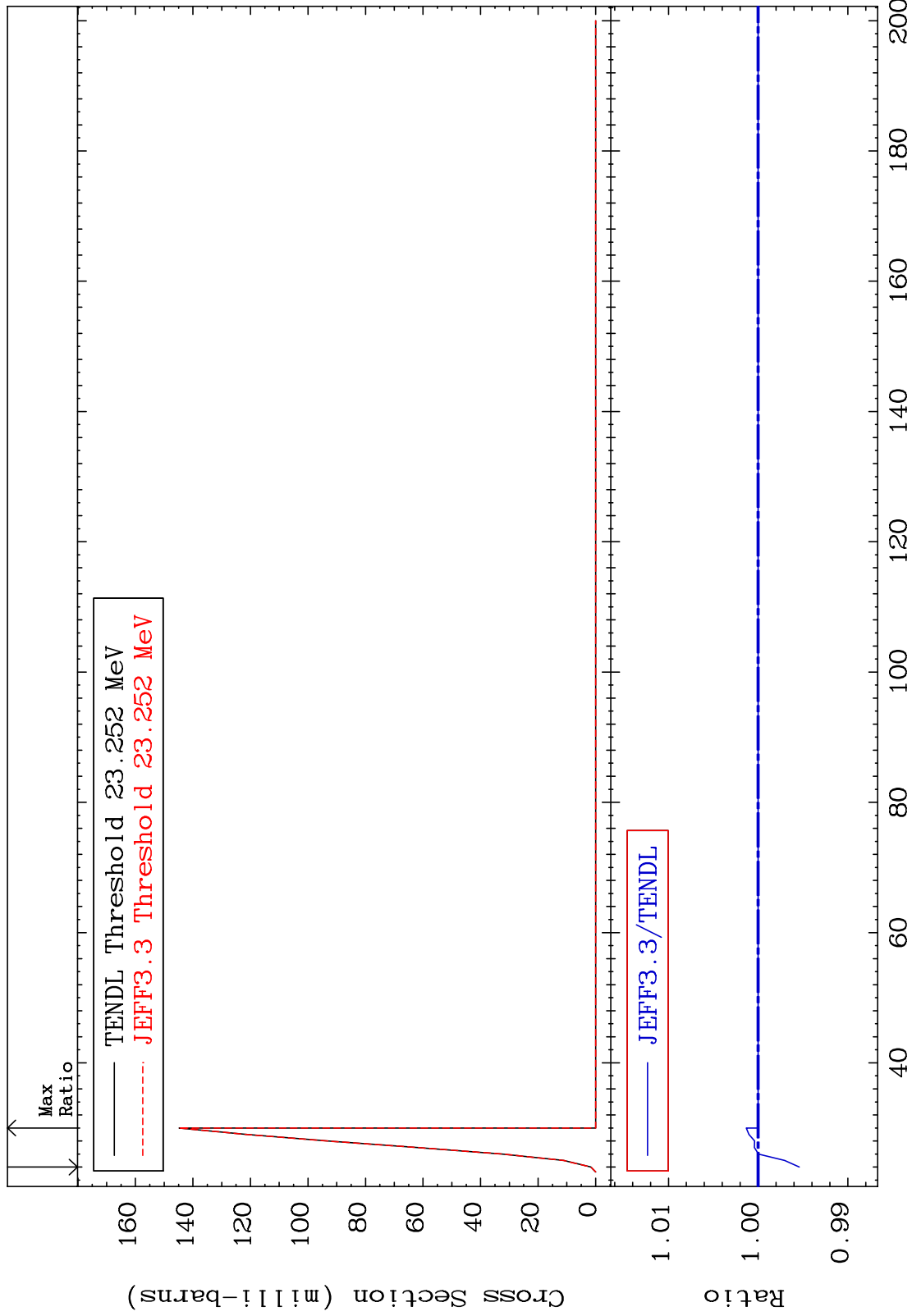


MAT 7037

(n, 4n) : 70-Yb-169m1

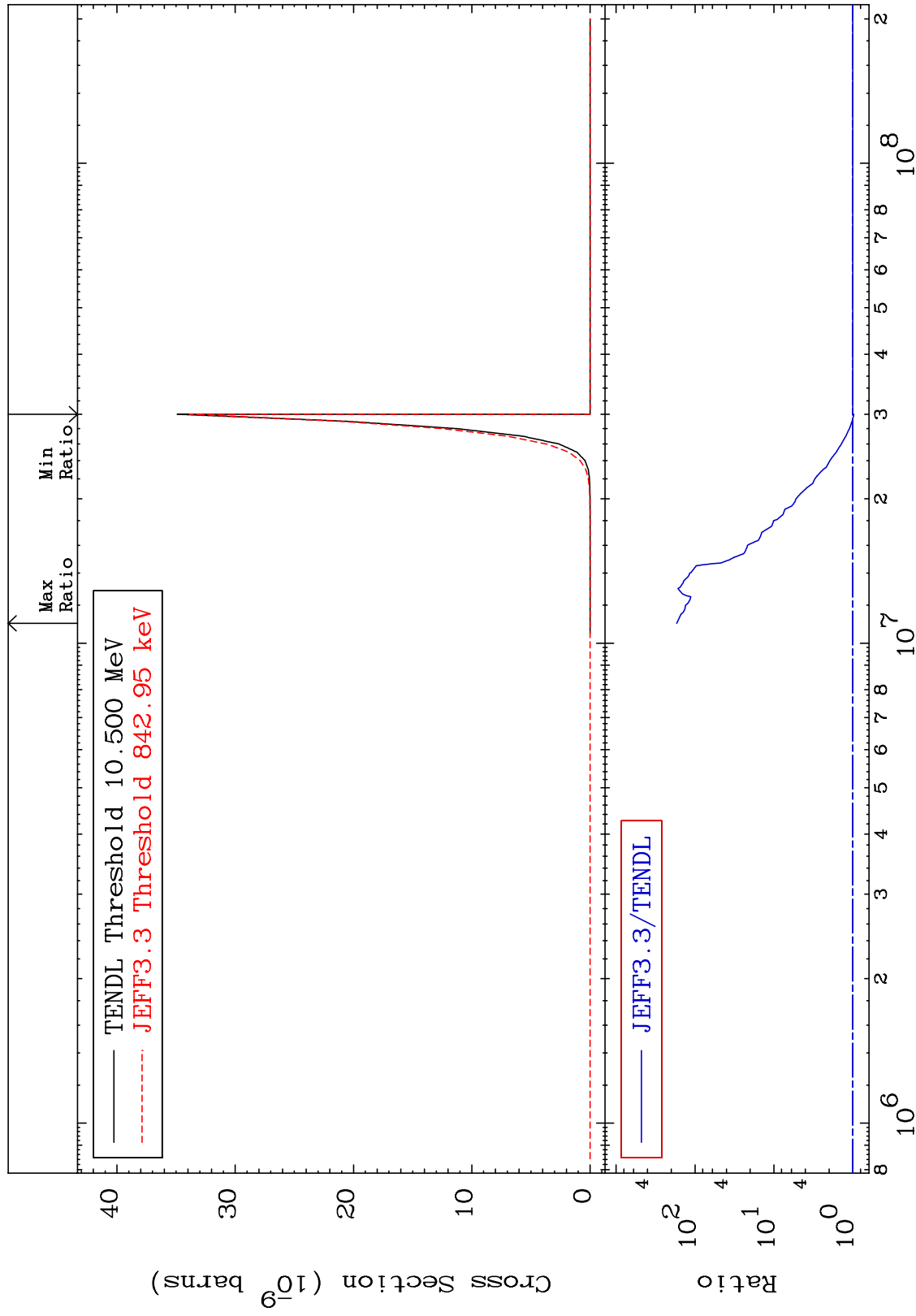
70-Yb-172

Radionuclide Production Cross Section -0.459 To 0.131 %



MAT 7037

(n,p) α :67-Ho-168g 70-Yb-172
Radionuclide Production Cross Section -2.962 To 9999. %



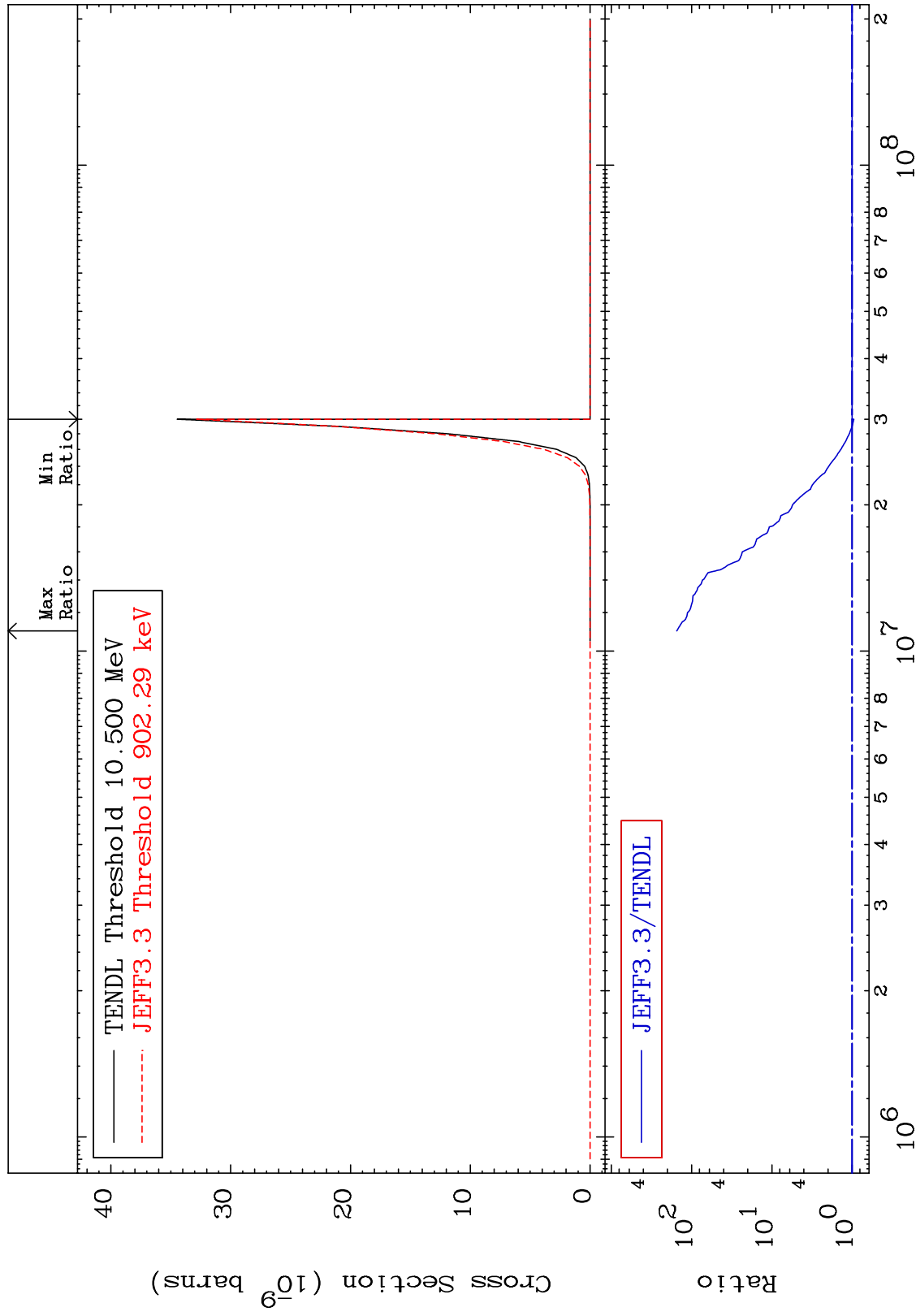
MAT 7037

(n, p) α :67-Ho-168m1

70-Yb-172

Radionuclide Production Cross Section

-4.693 To 9999. %



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Incident Energy (eV)

70-Yb-172