

Program Complot
(Version 2018-1)

by

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(Present Contact Information)

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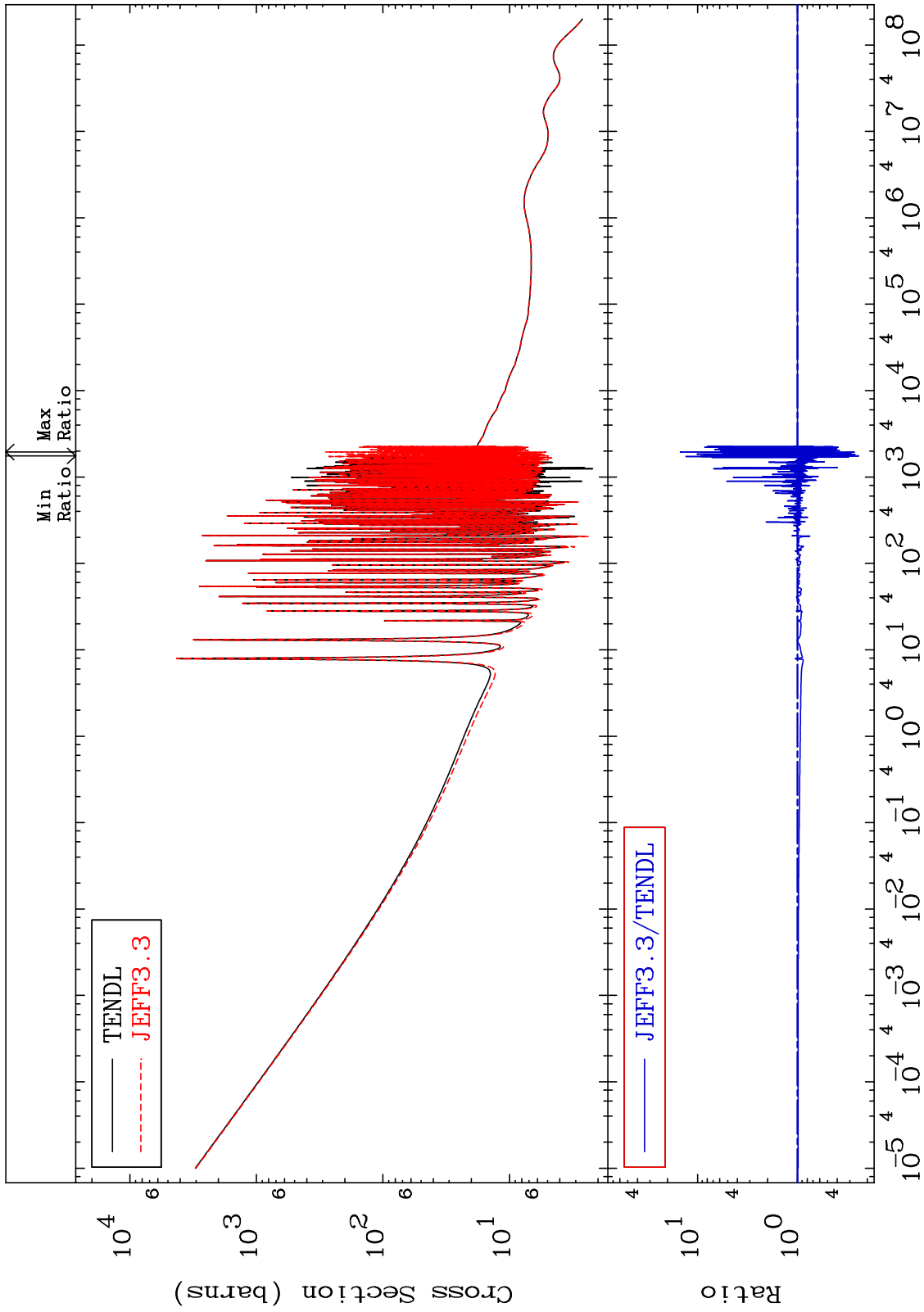
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7034

Total
Cross Section

70-Yb-171
-75.66 To 1393. %



1

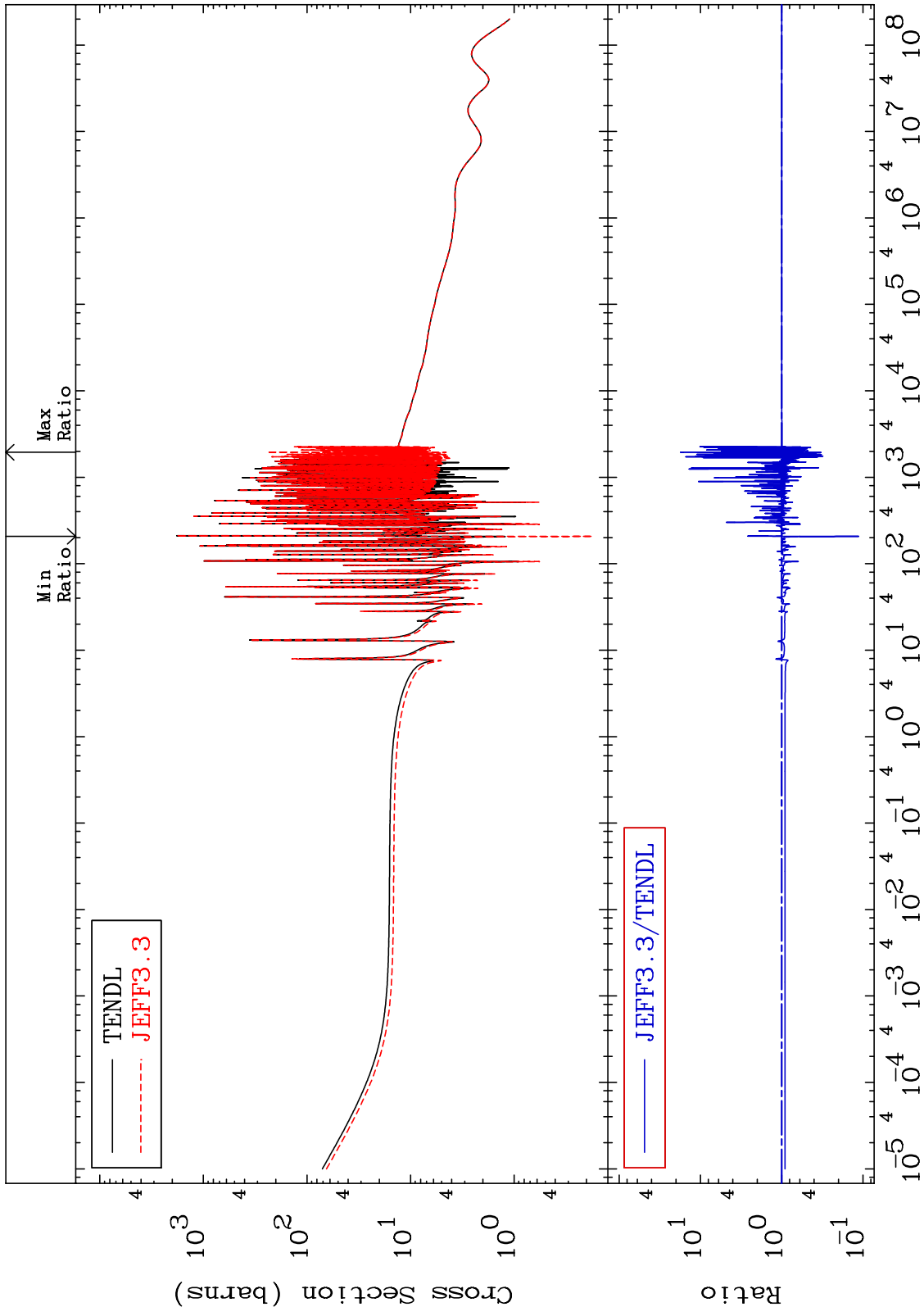
Incident Energy (eV)

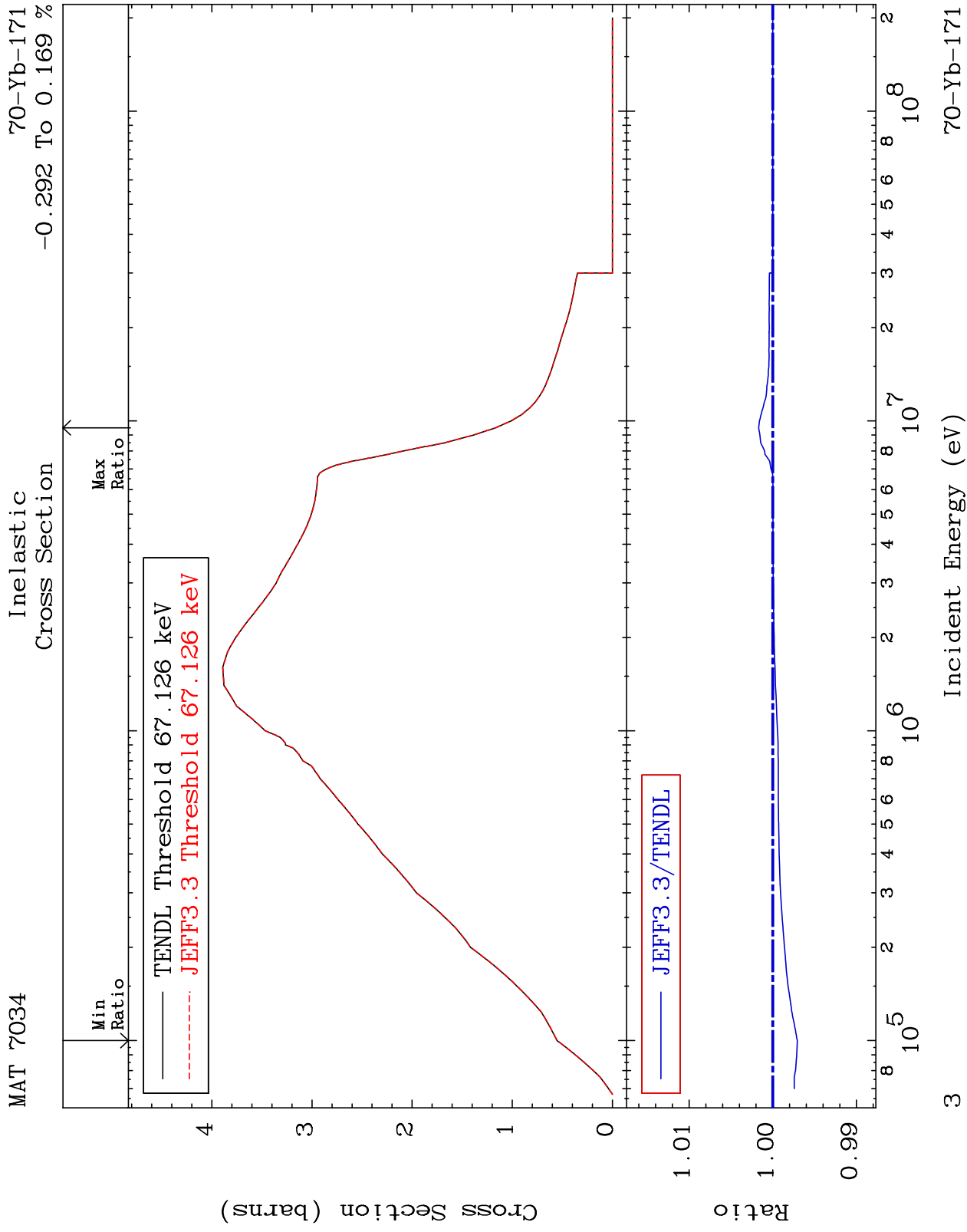
70-Yb-171

MAT 7034

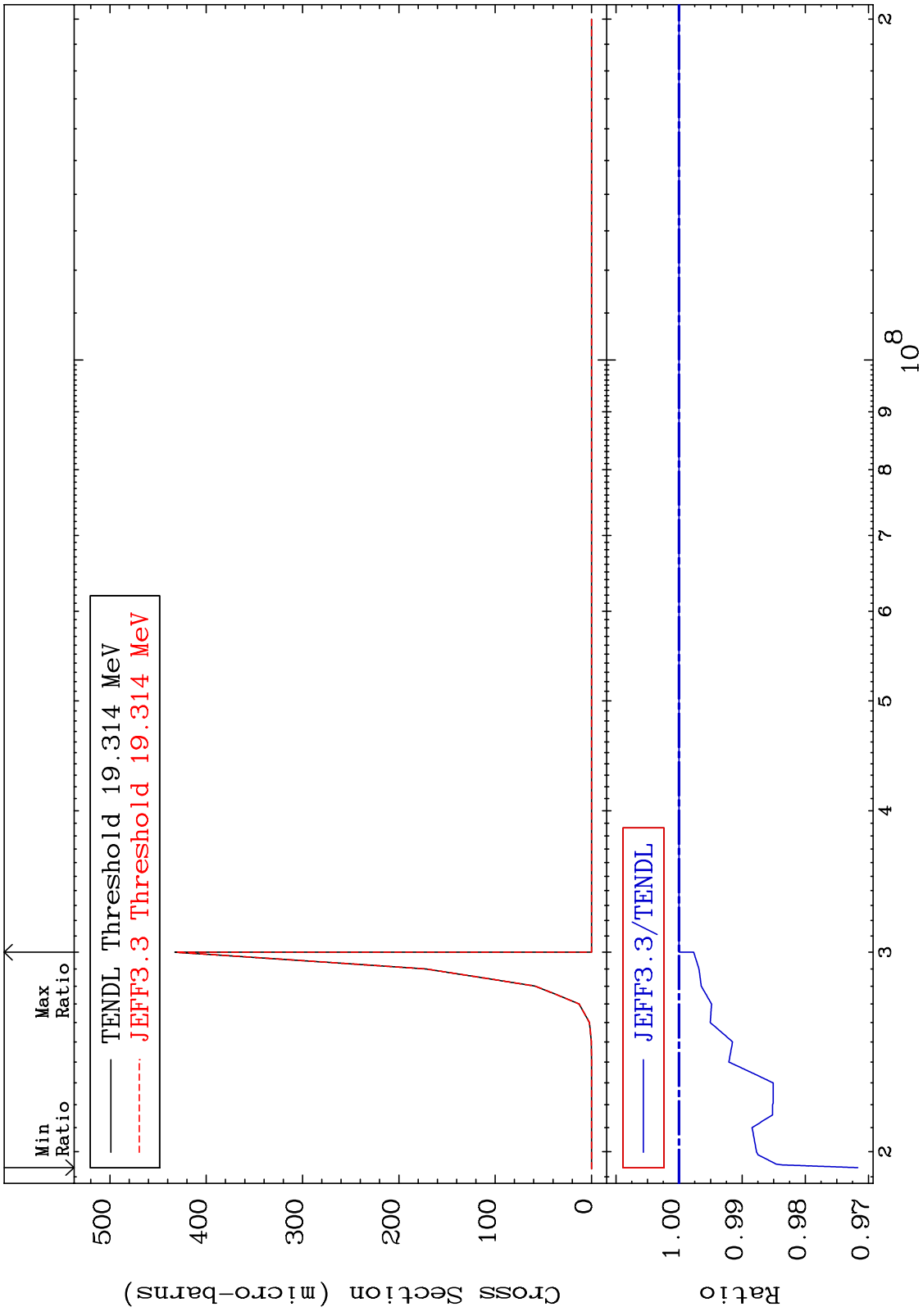
Elastic
Cross Section

70-Yb-171
-88.76 To 1677. %





MAT 7034 (n,2n) d 70-Yb-171
 Cross Section -2.833 To 0.000 %



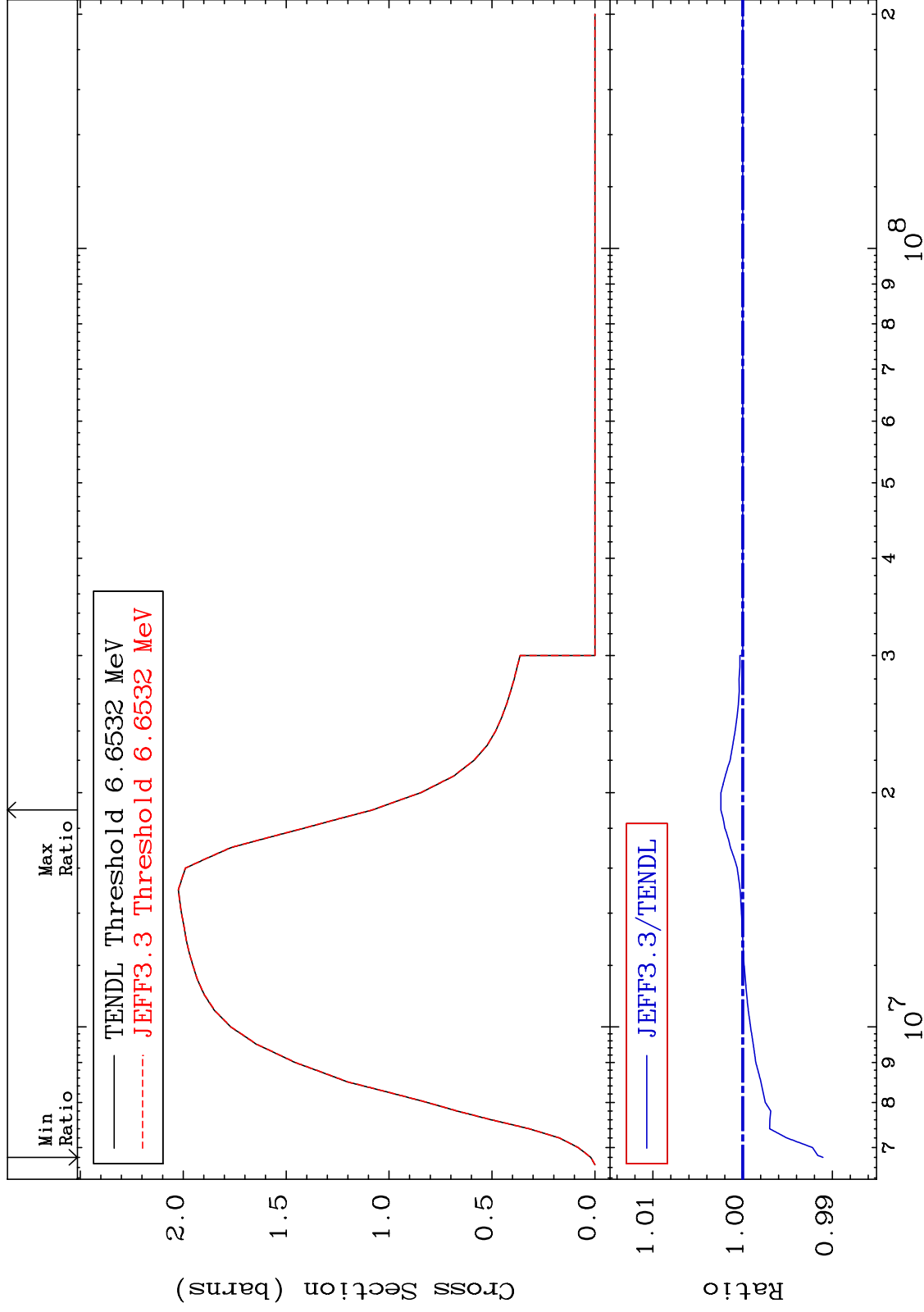
MAT 7034

(n,2n)

70-Yb-171

-0.895 To 0.244 %

Cross Section



5

Incident Energy (eV)

70-Yb-171

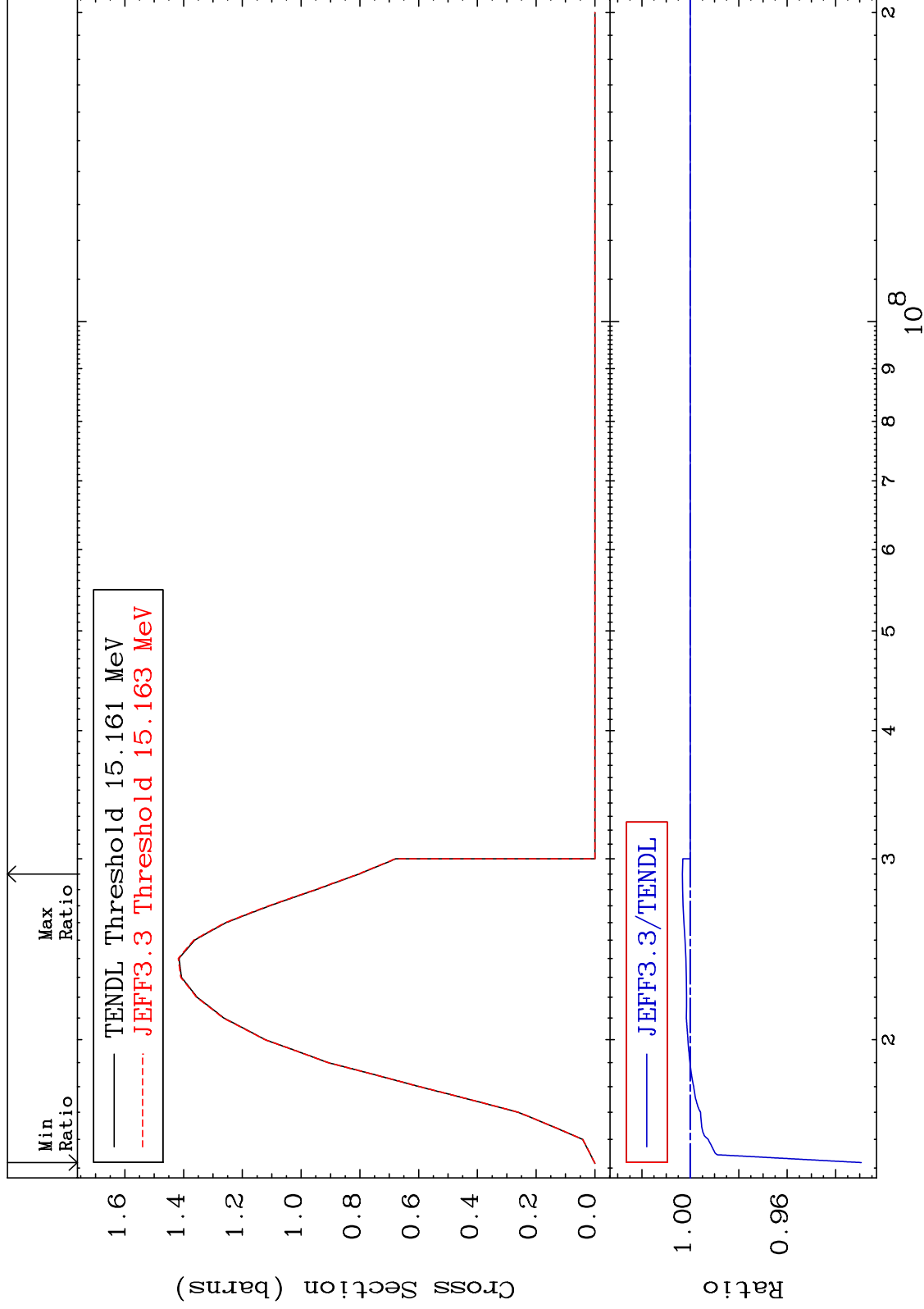
MAT 7034

(n,3n)

70-Yb-171

Cross Section

-7.061 To 0.325 %



6

Incident Energy (eV)

70-Yb-171

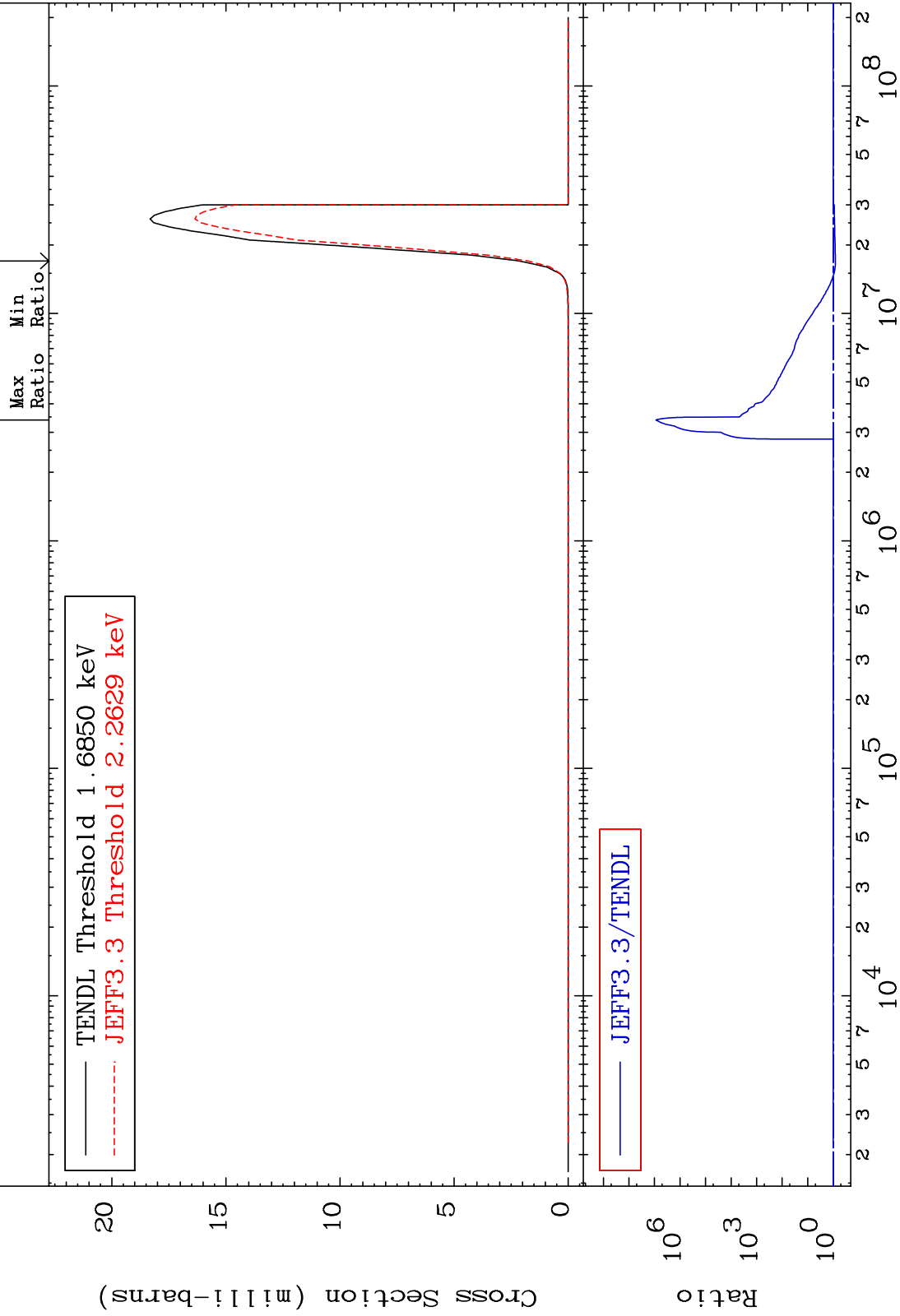
MAT 7034

$(n, n') \alpha$

70-Yb-171

-18.23 To 9999. %

Cross Section



7

Incident Energy (eV)

70-Yb-171

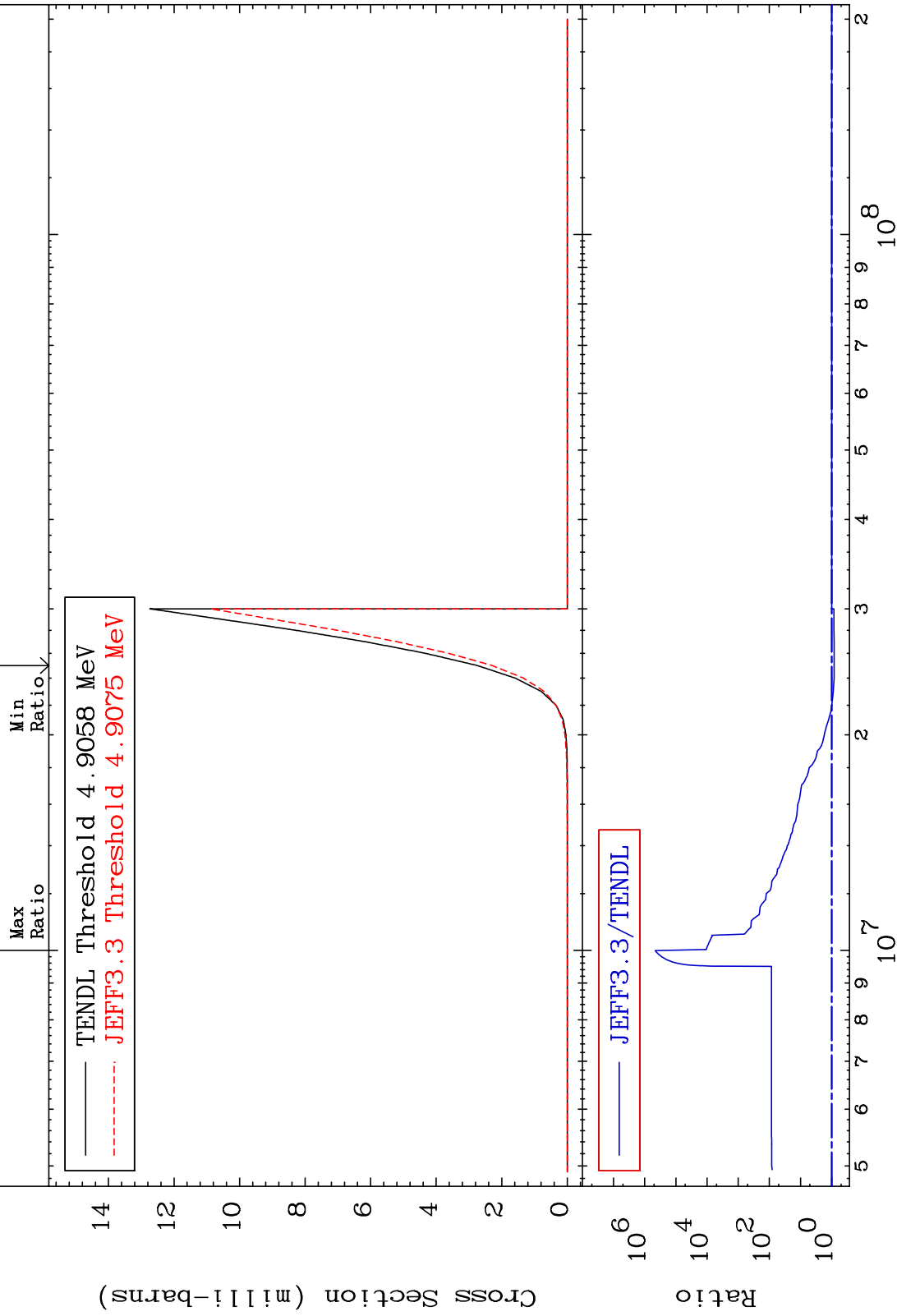
MAT 7034

(n,2n) α

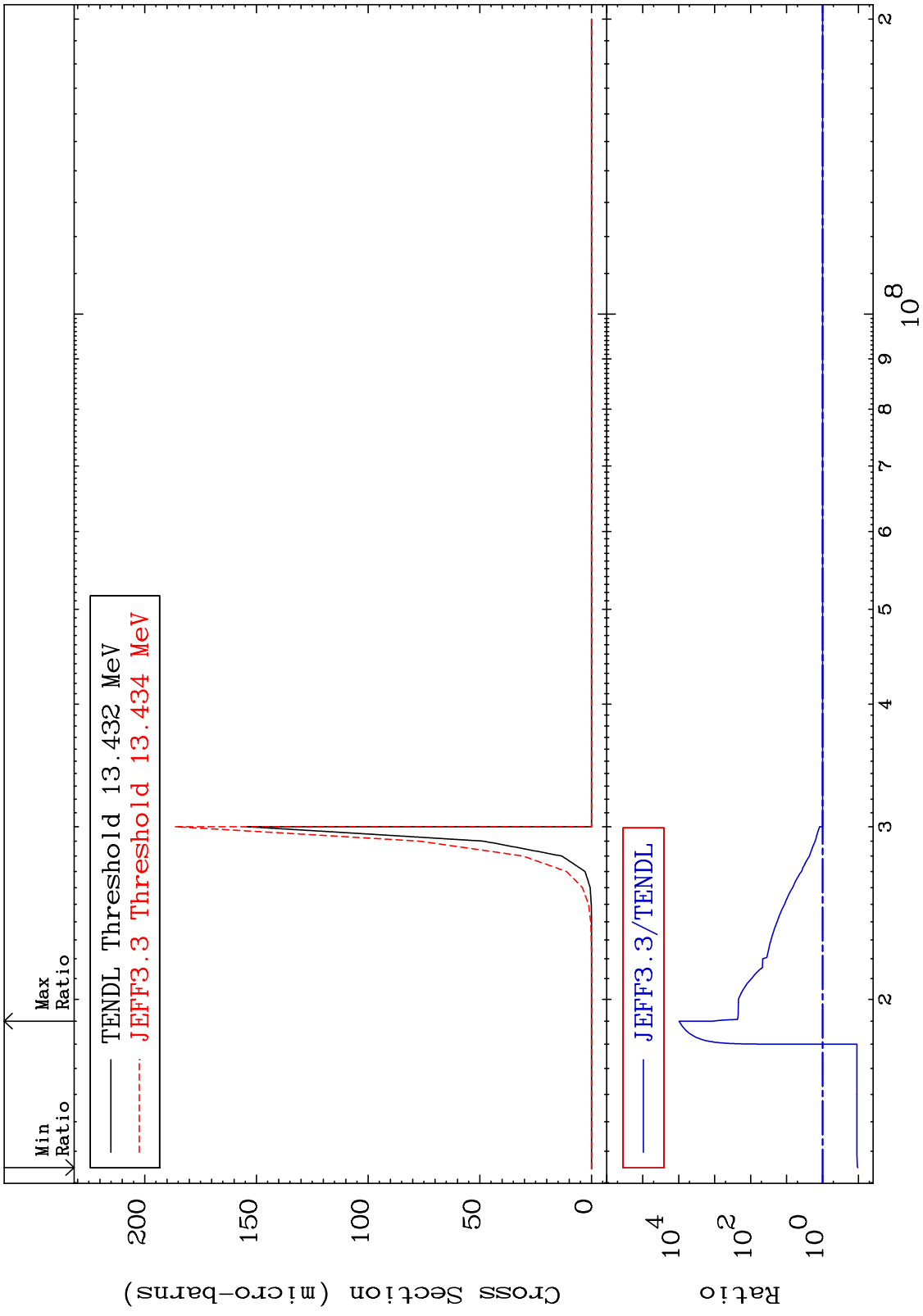
70-Yb-171

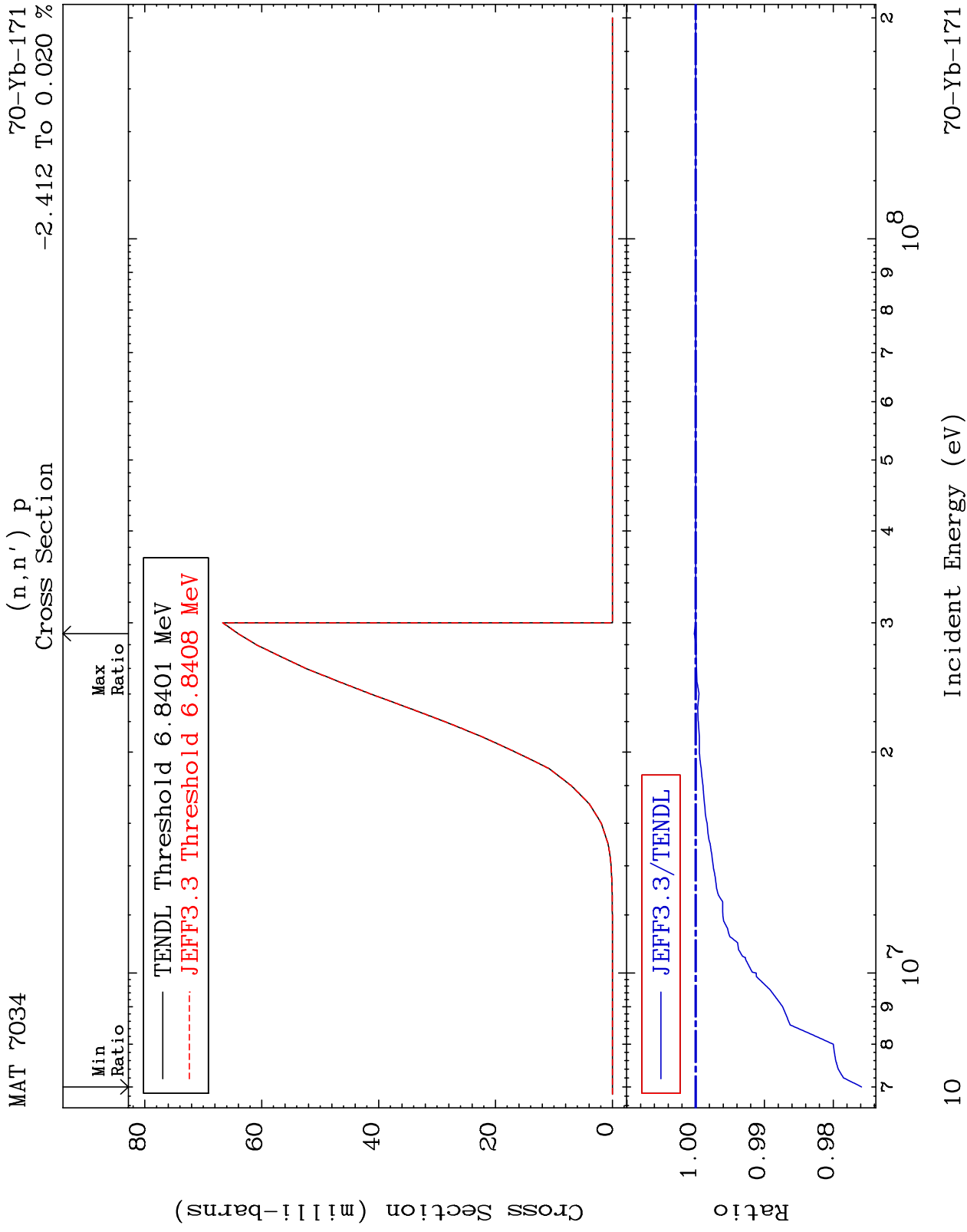
-16.73 To 9999. %

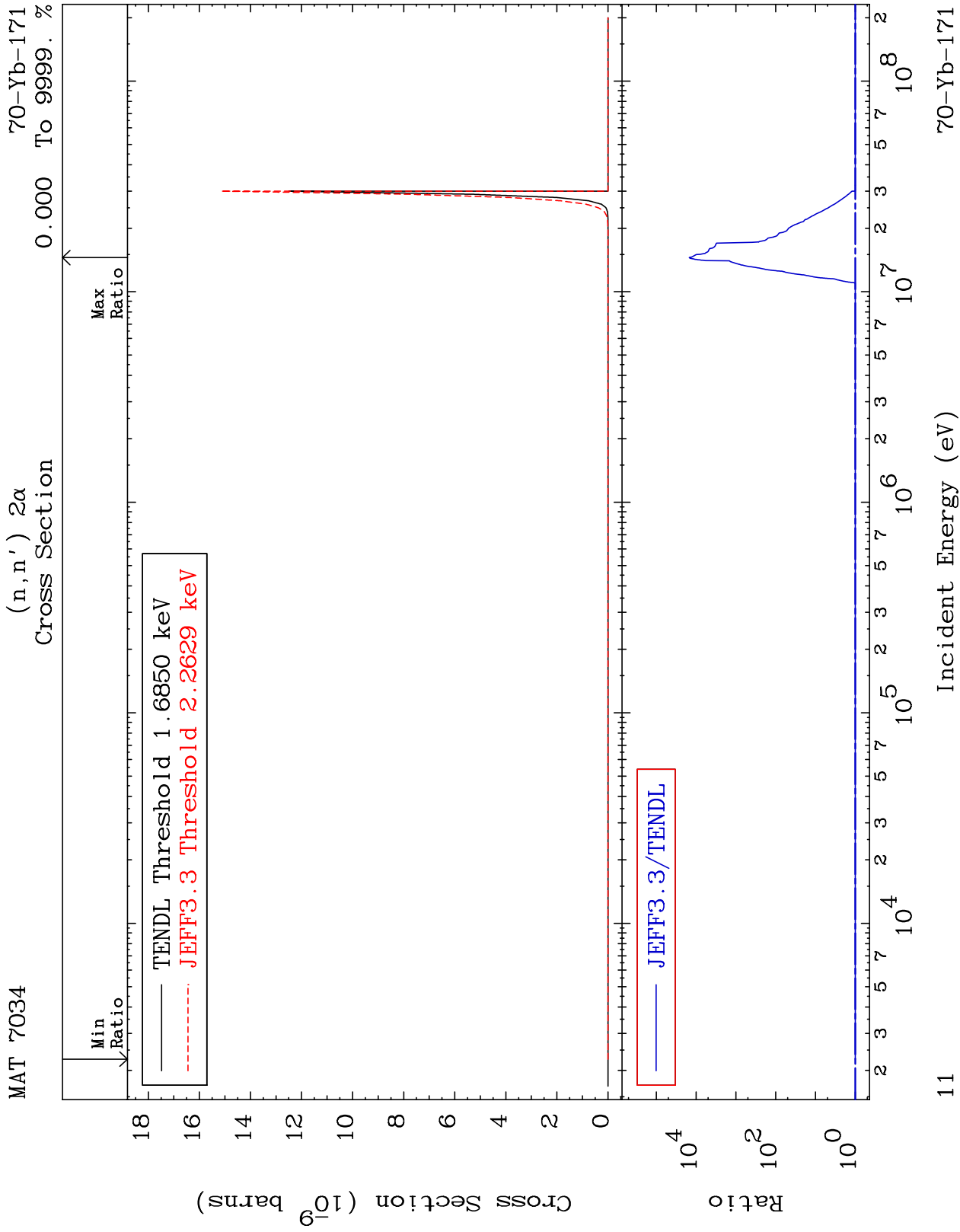
Cross Section



MAT 7034 $(n, 3n) \alpha$ 70-Yb-171
 Cross Section -89.58 To 9999. %







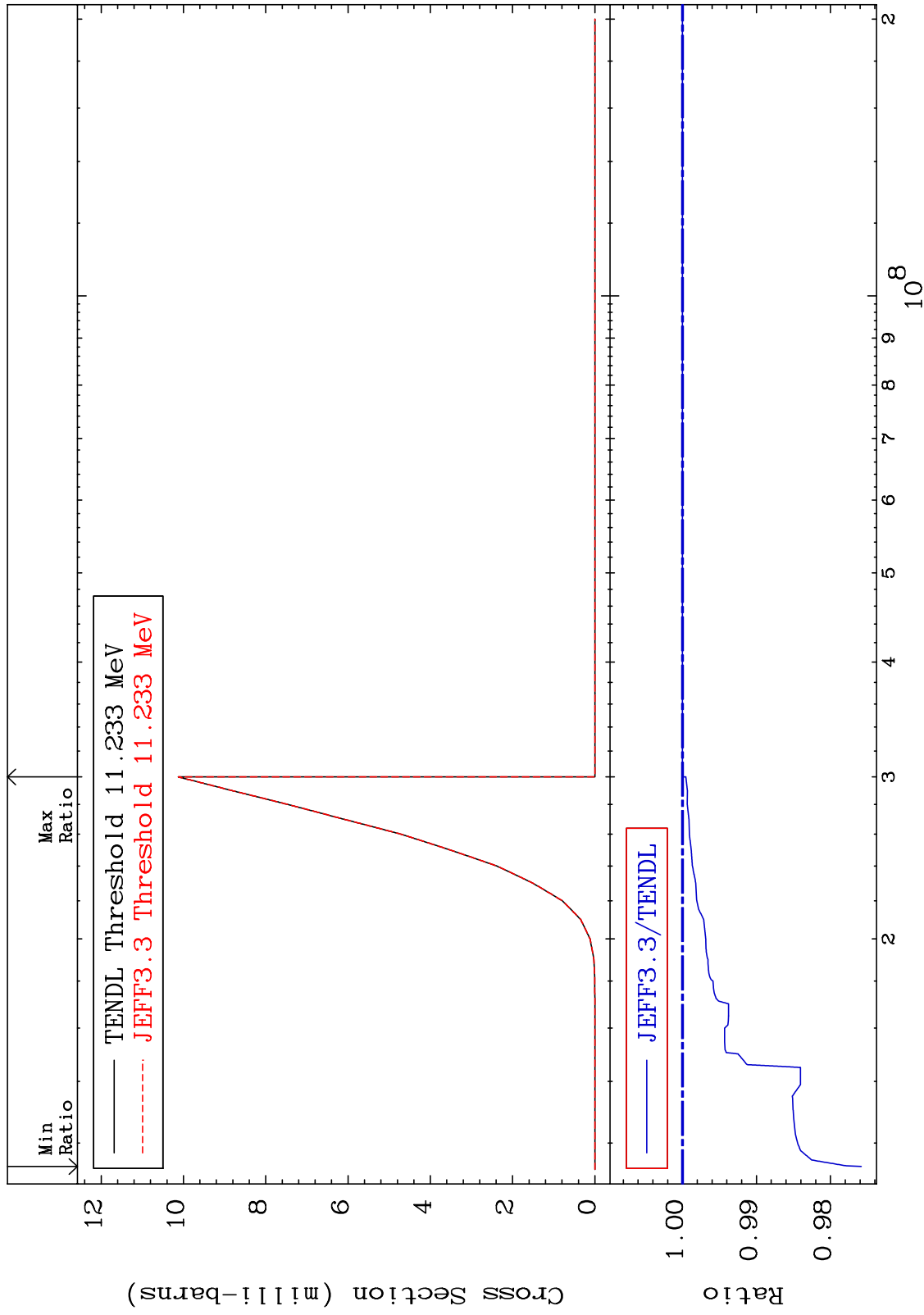
MAT 7034

(n, n') d

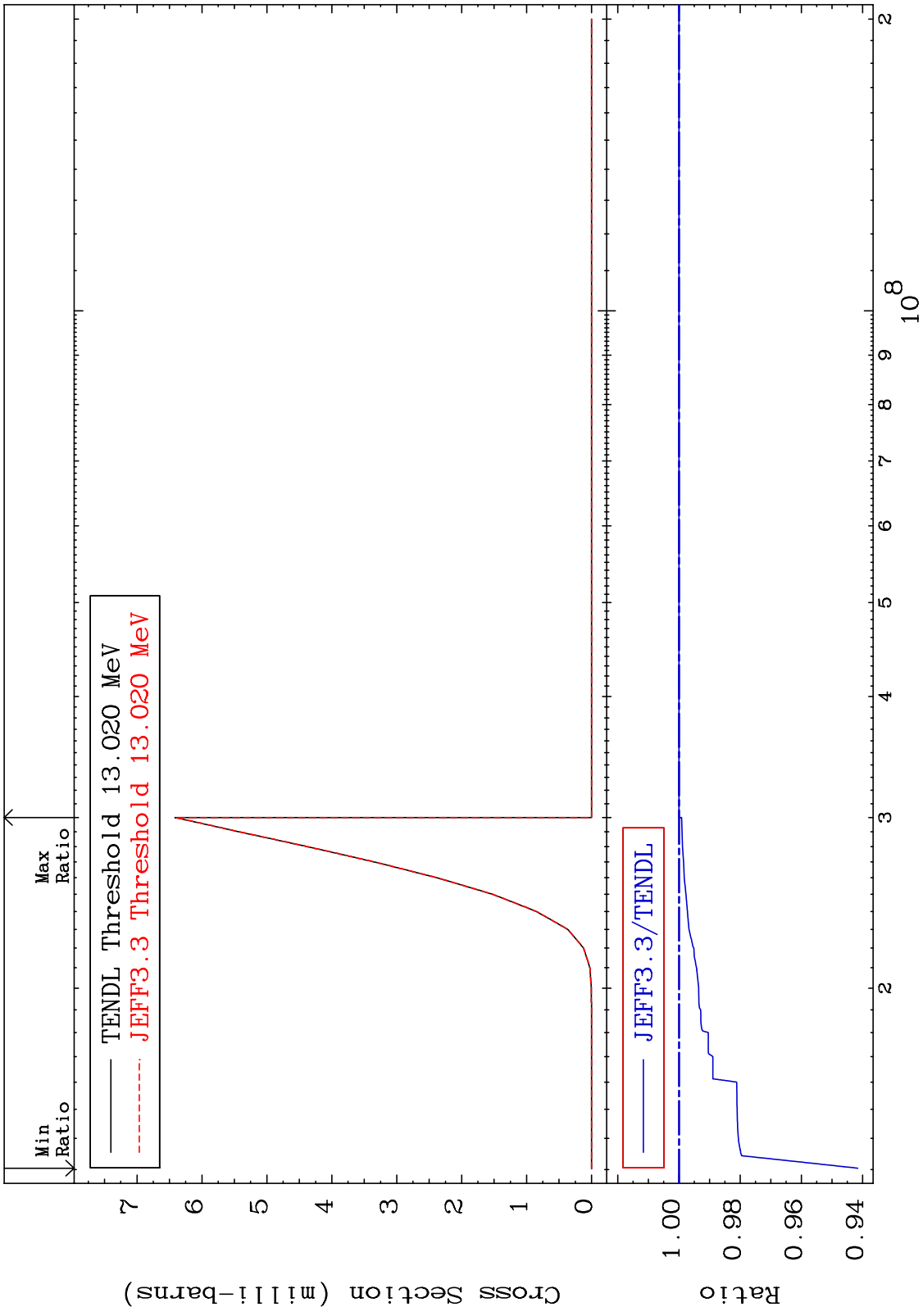
70-Yb-171

Cross Section

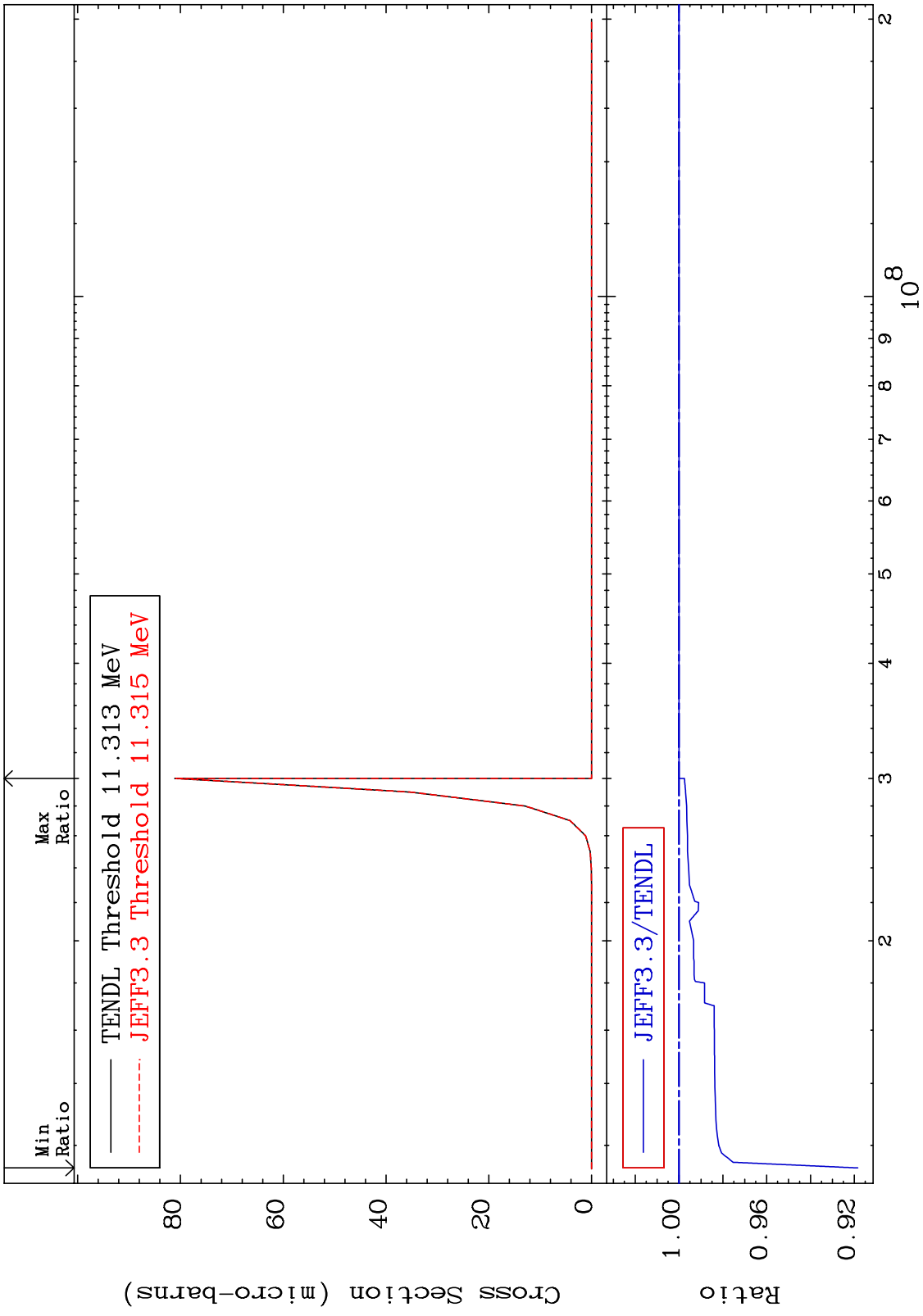
-2.417 To 0.000 %



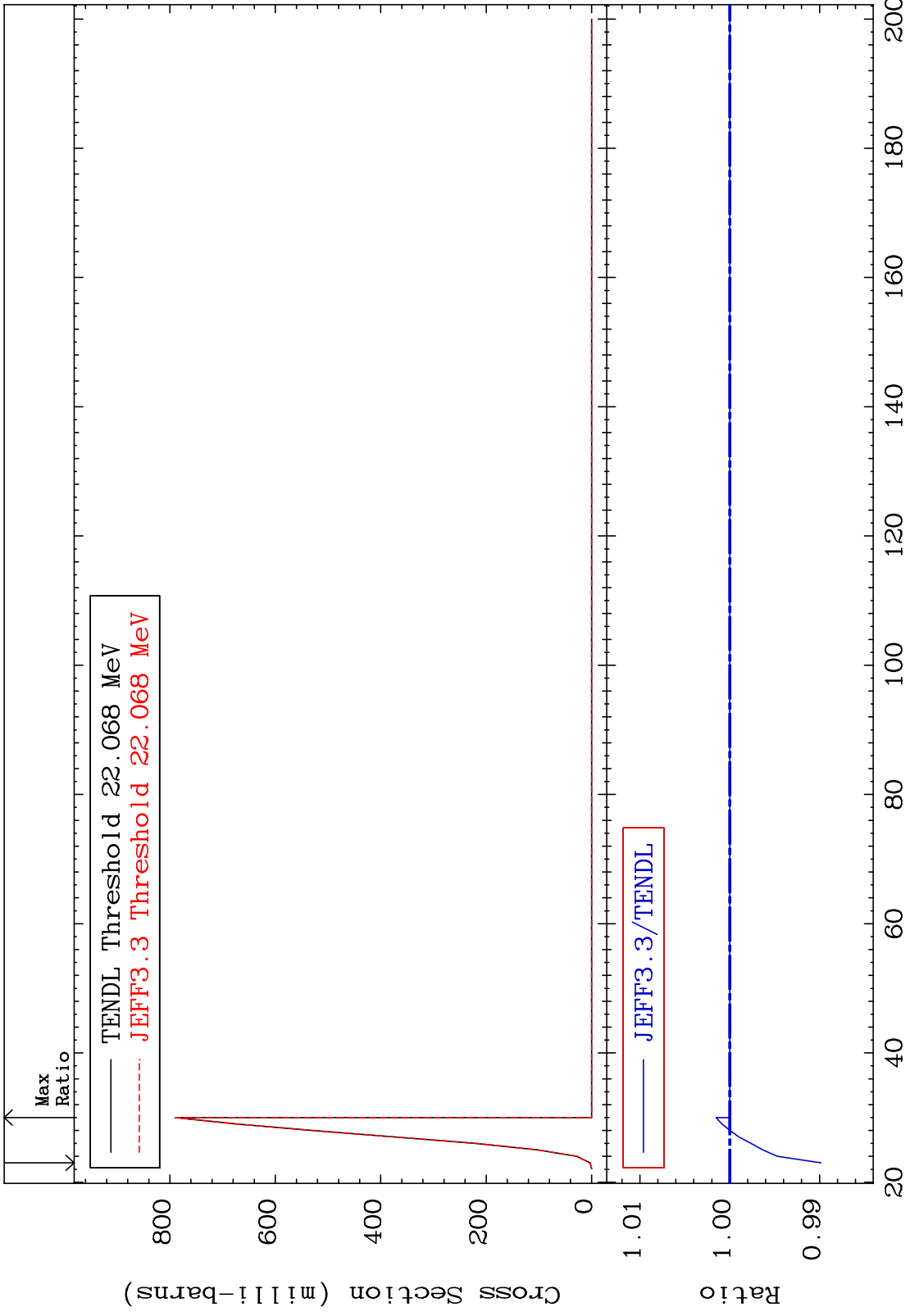
MAT 7034 (n, n') t 70-Yb-171
 Cross Section -5.843 To 0.000 %



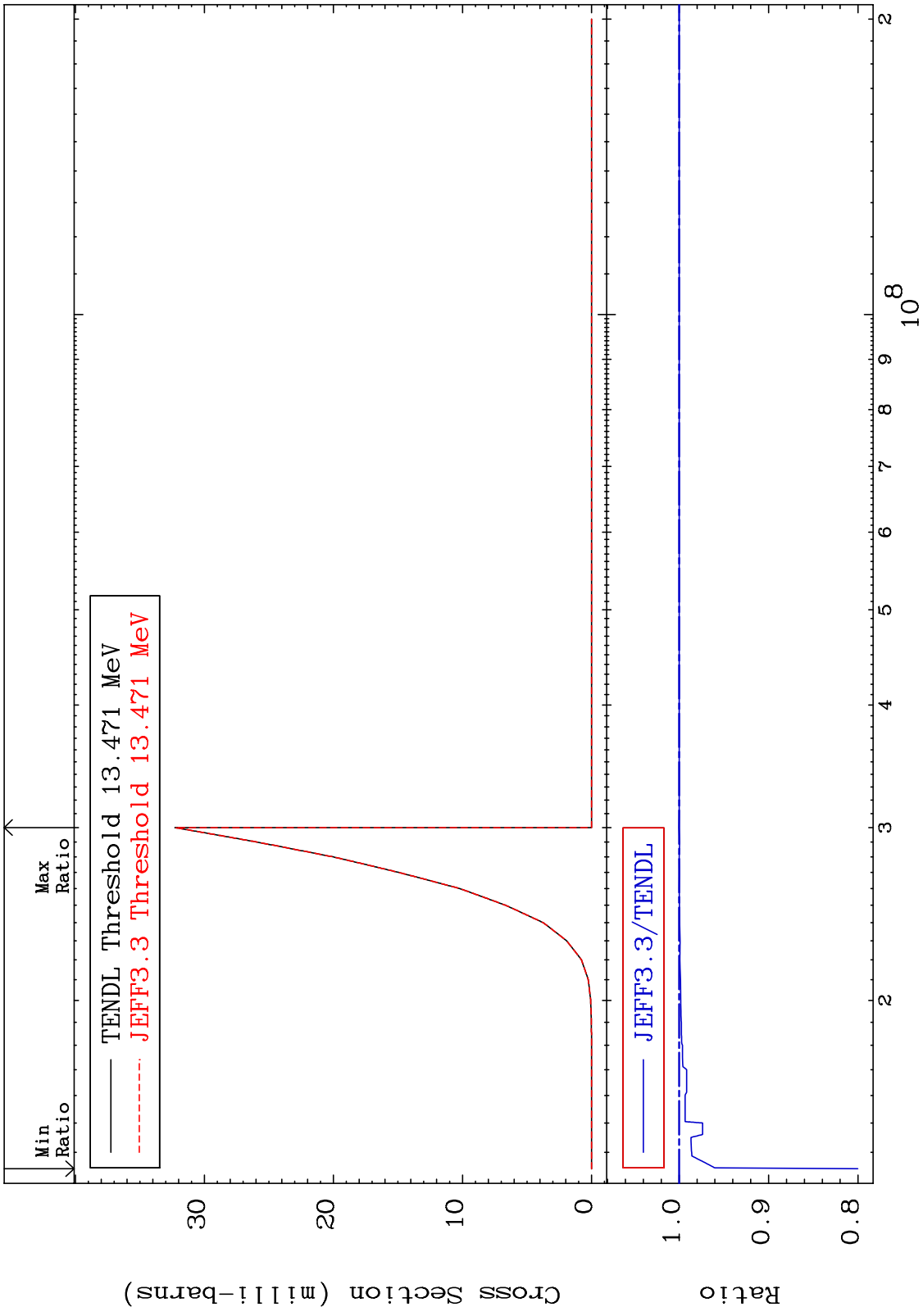
MAT 7034 (n, n') He-3 Cross Section 70-Yb-171 -8.161 To 0.000 %



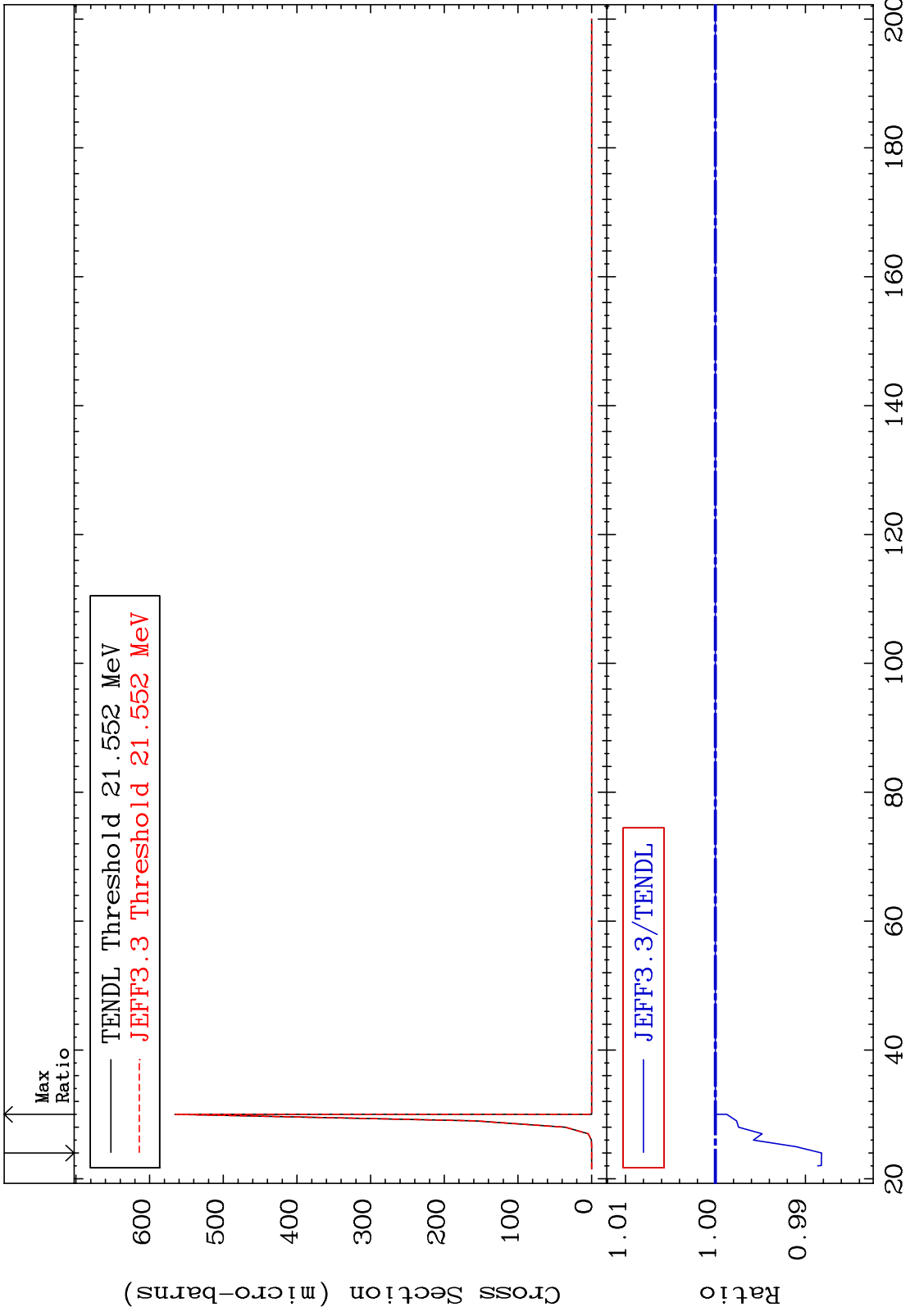
MAT 7034 (n,4n) 70-Yb-171
Cross Section -1.016 To 0.152 %



MAT 7034 70-Yb-171
-19.97 To 0.010 %
 (n,2n) p
 Cross Section



MAT 7034 (n,3n) p 70-Yb-171
Cross Section -1.181 To 0.000 %

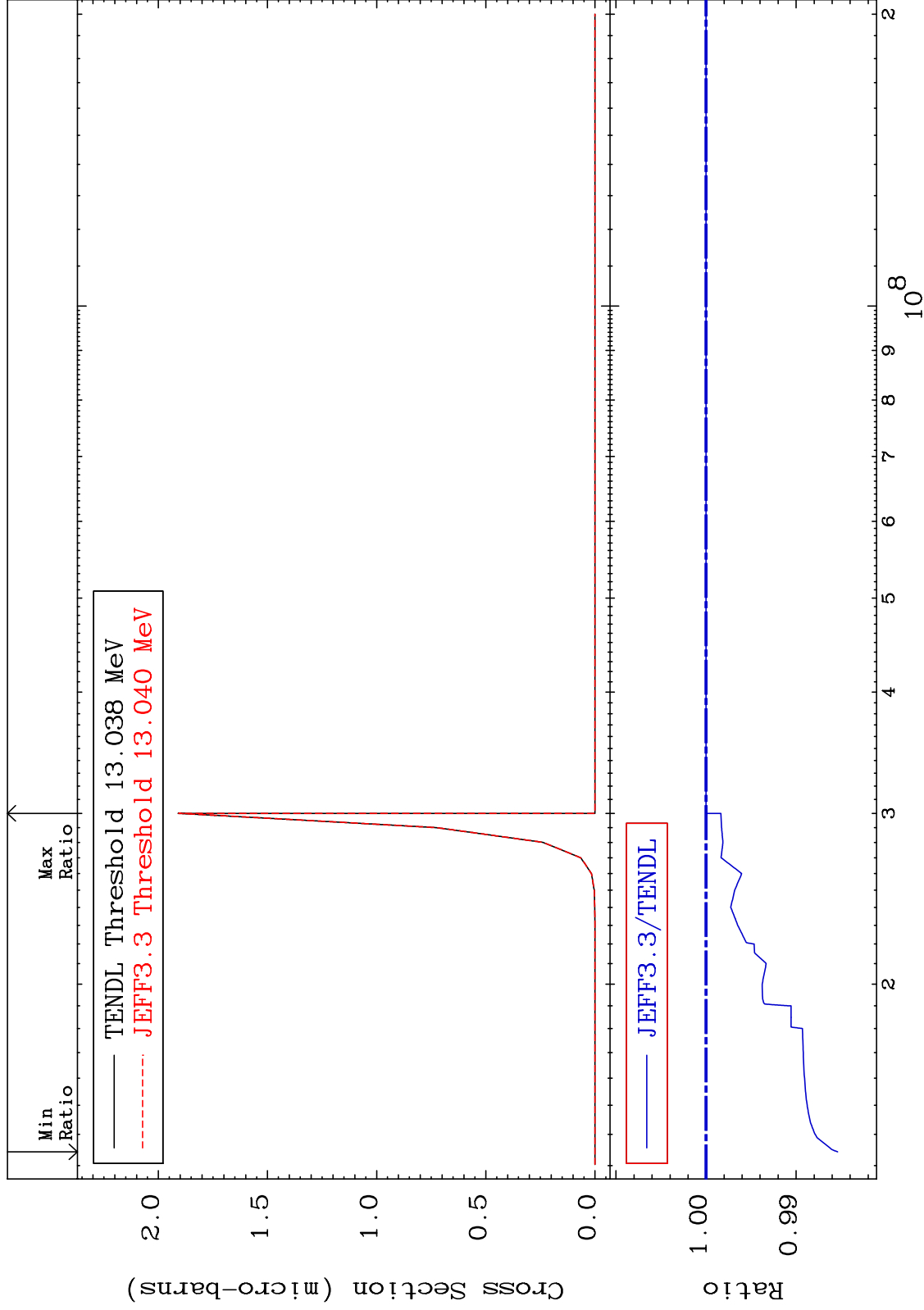


17 70-Yb-171

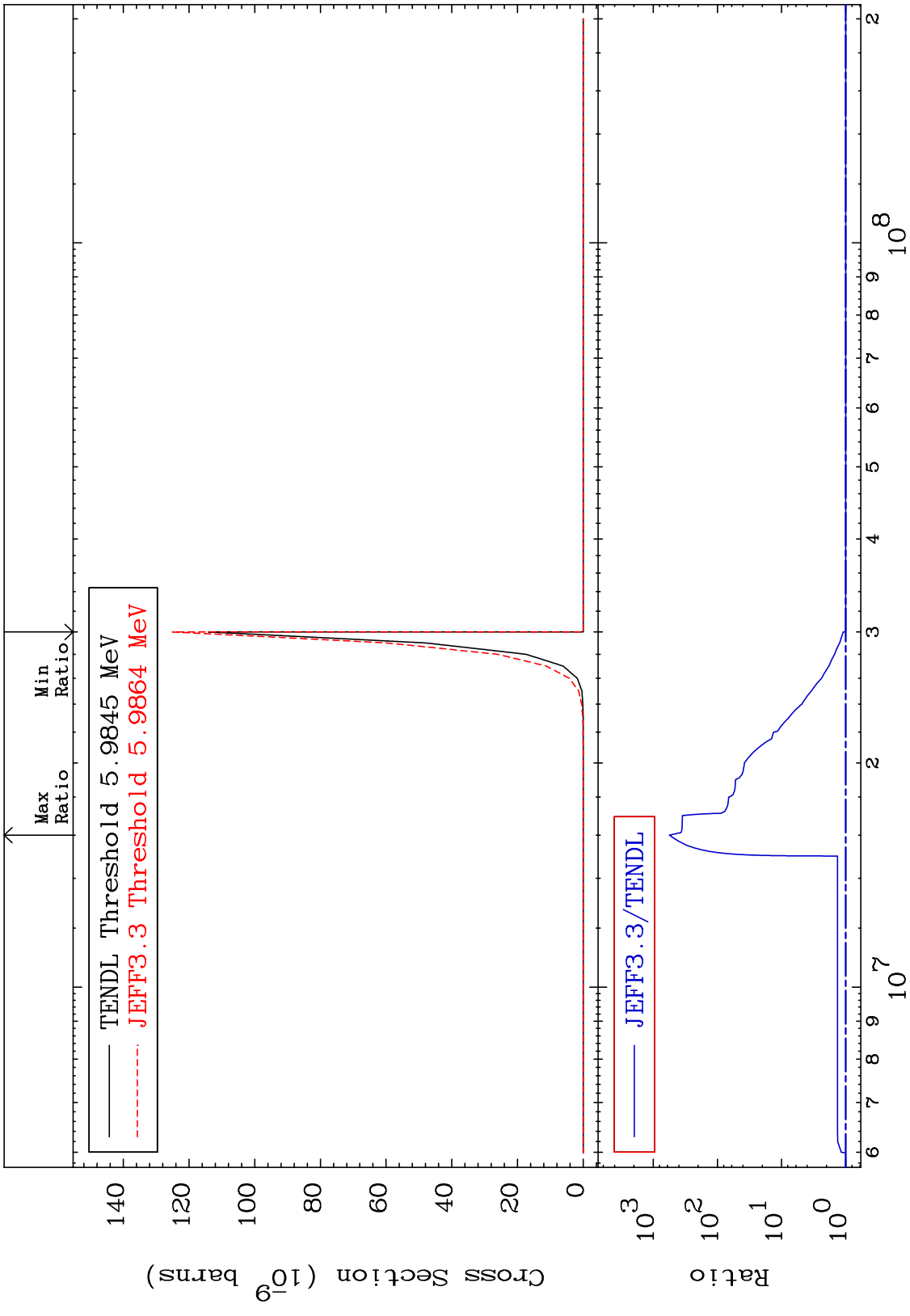
MAT 7034

(n,2n) p
Cross Section

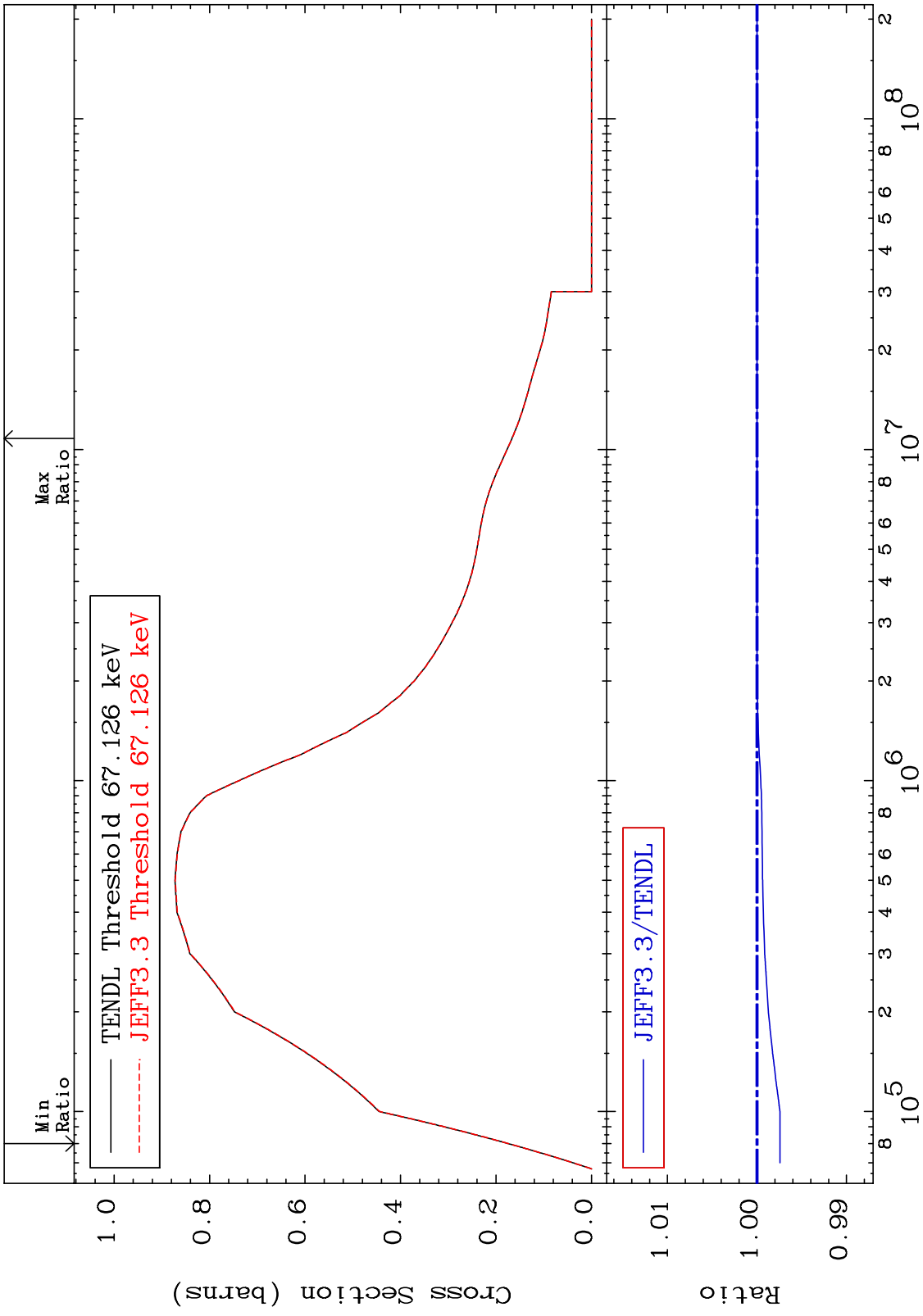
70-Yb-171
-1.461 To 0.000 %



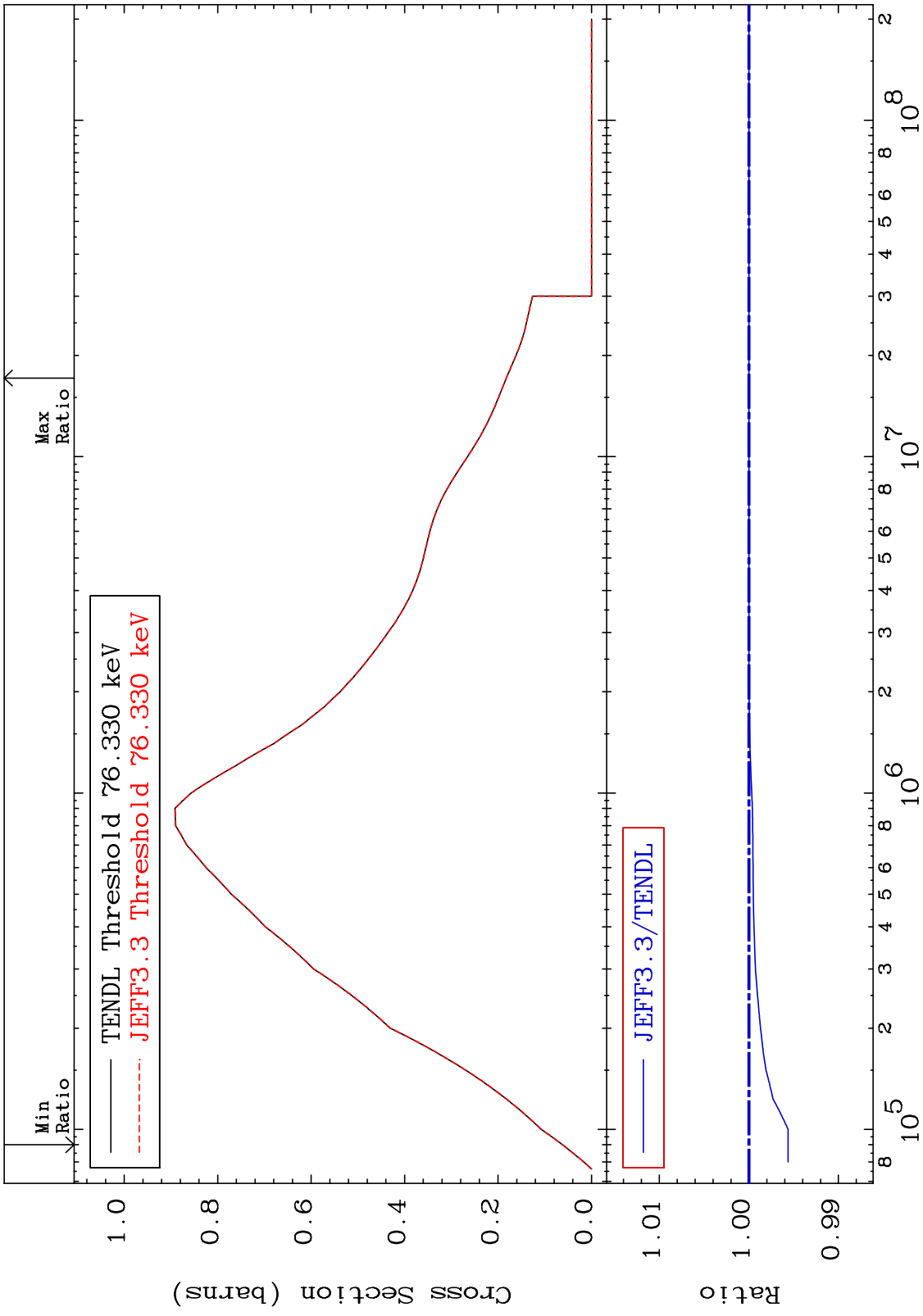
MAT 7034 (n, n') p α 70-Yb-171 To 9999. %
 Cross Section 0.000



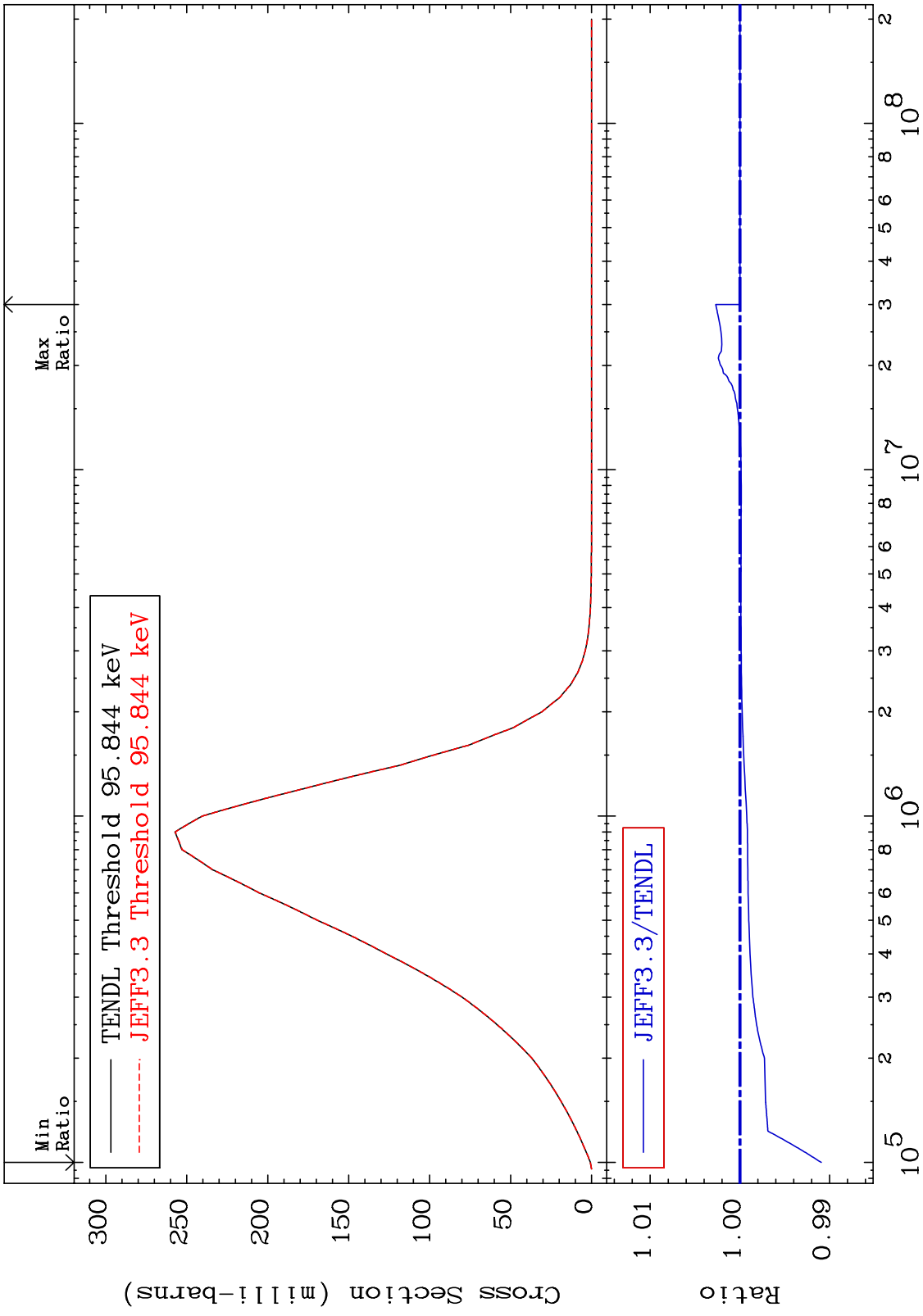
MAT 7034 MT= 51 (n,n') Level Cross Section 70-Yb-171 -0.256 To 0.000 %



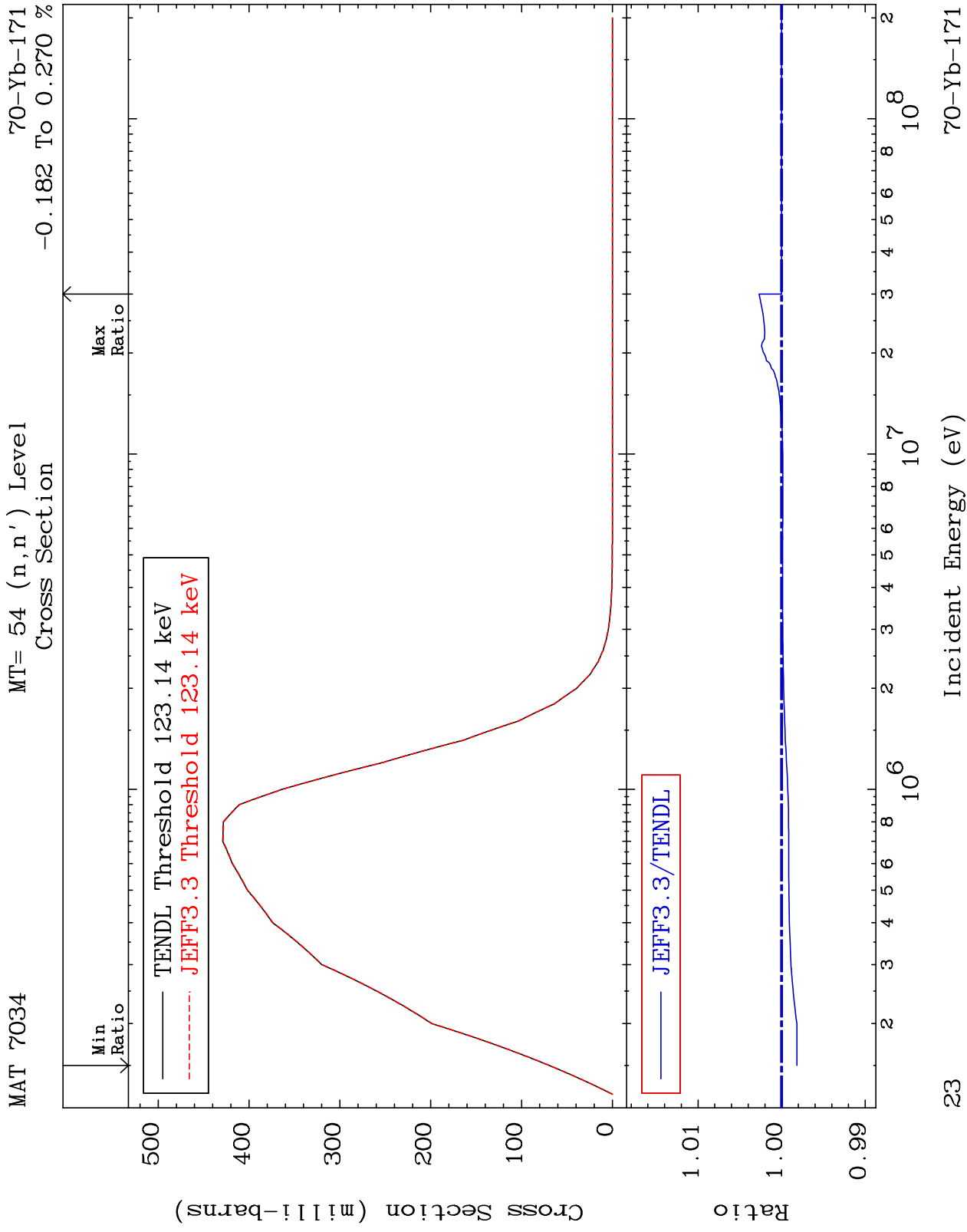
MAT 7034 MT= 52 (n,n') Level Cross Section 70-Yb-171 -0.437 To 0.000 %

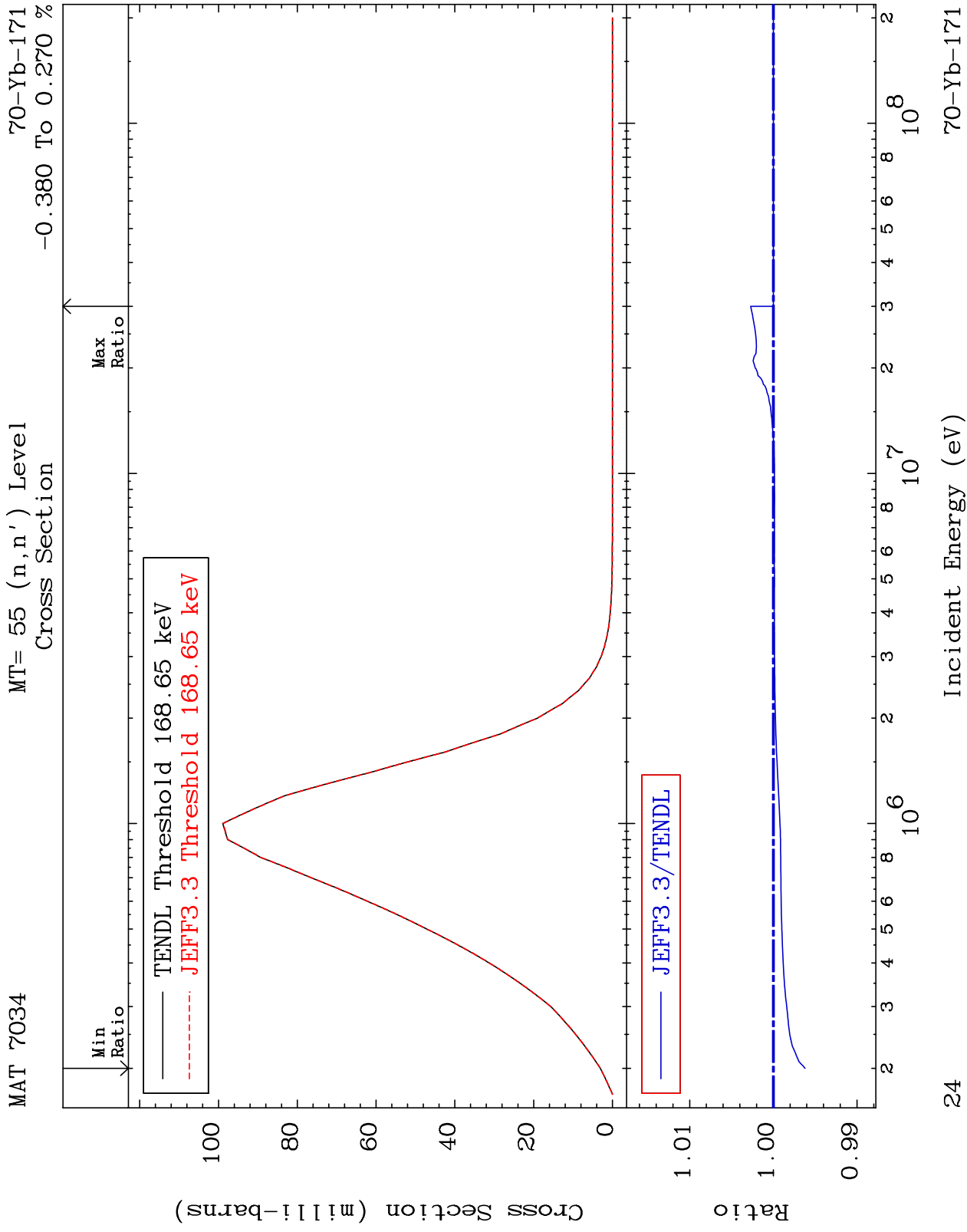


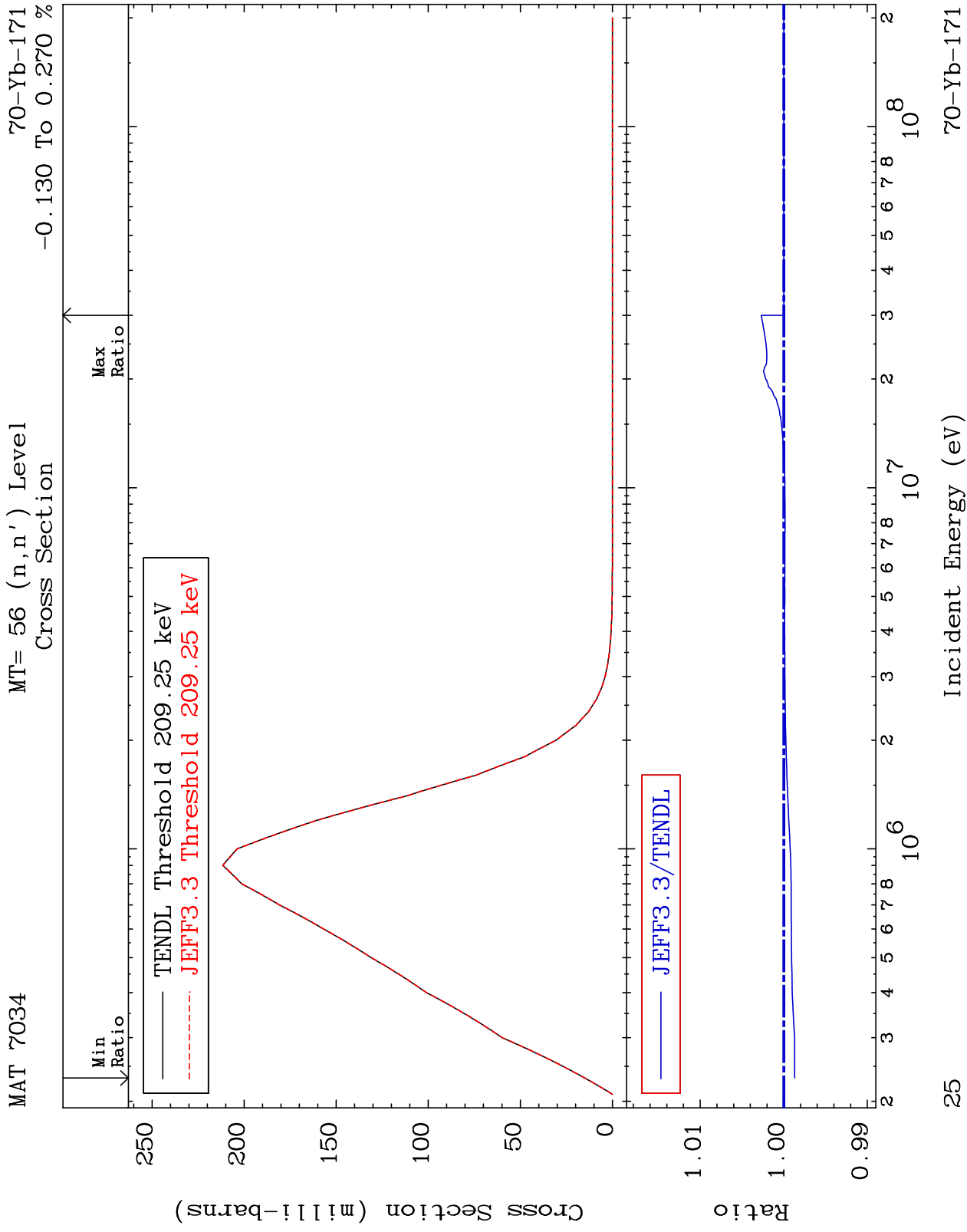
MAT 7034 MT= 53 (n,n') Level Cross Section 70-Yb-171
 -0.907 To 0.270 %



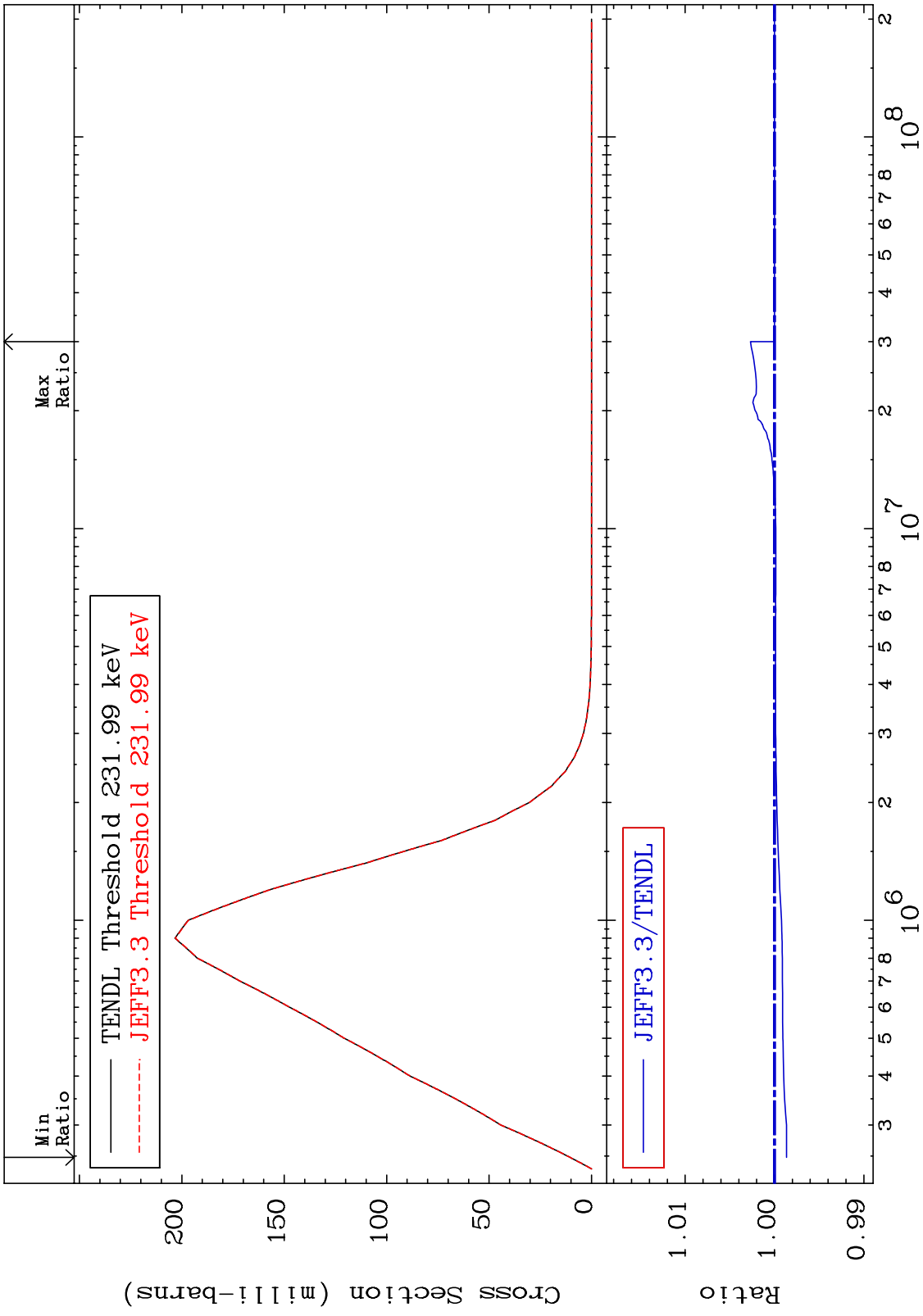
22 70-Yb-171



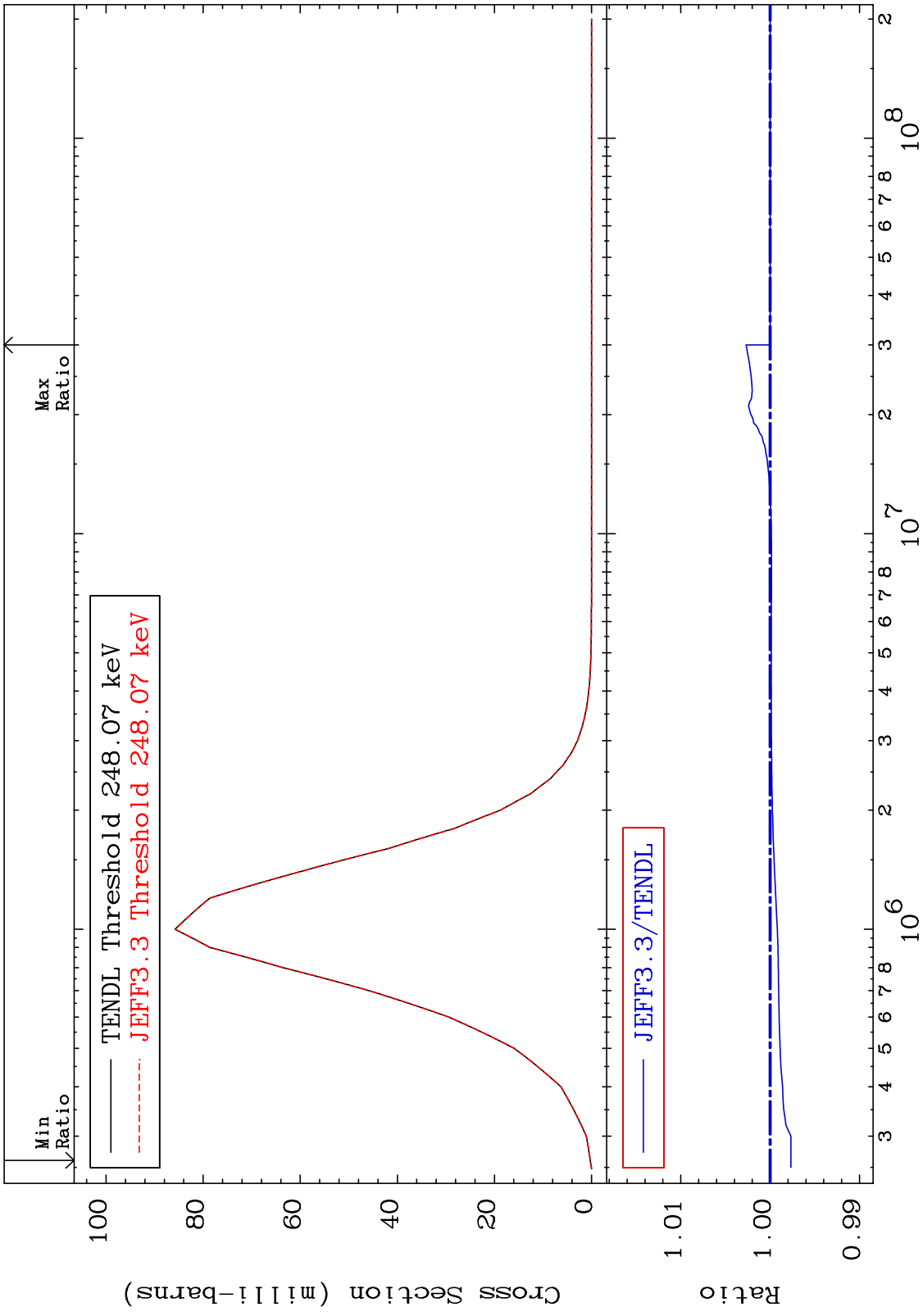




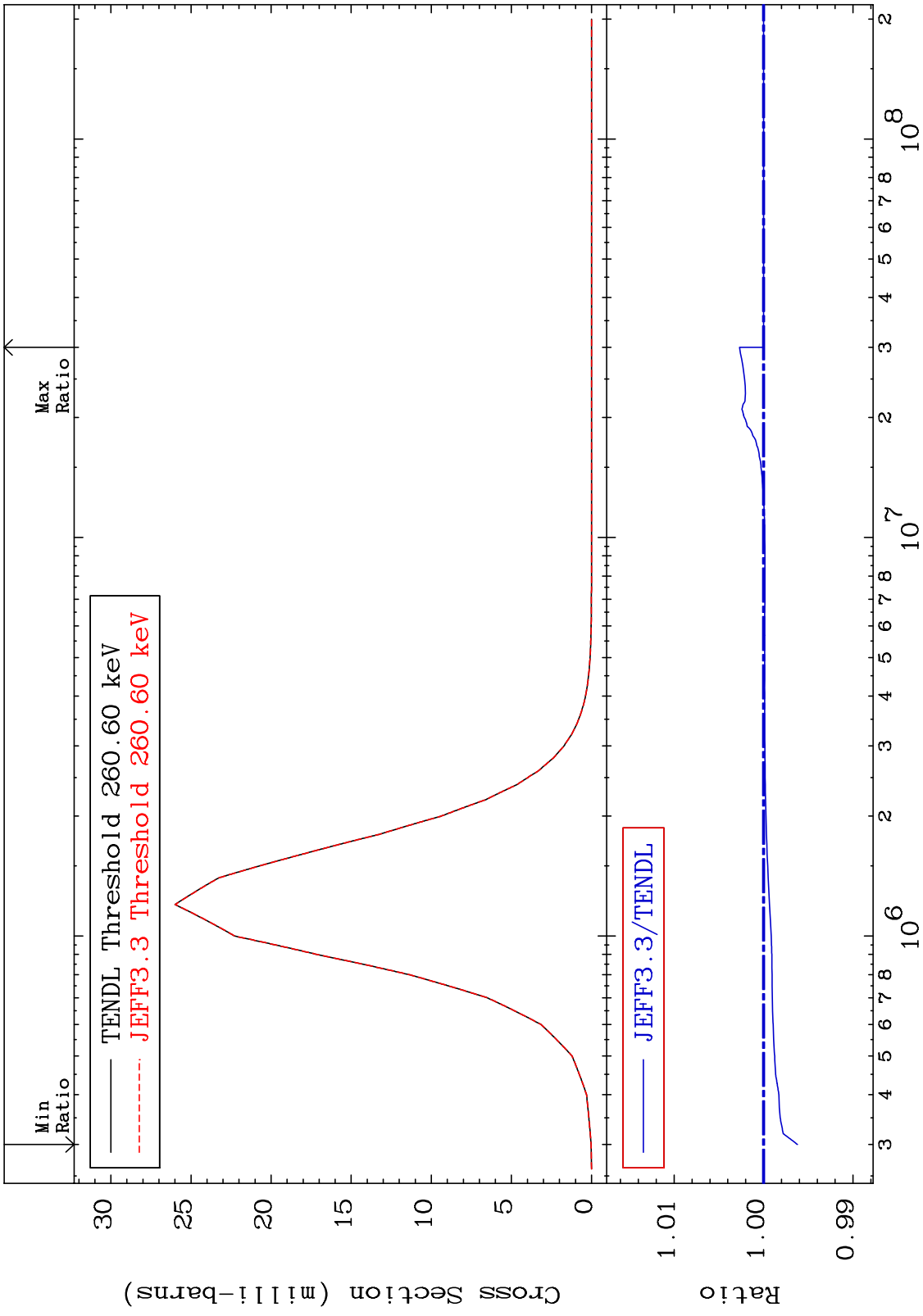
MAT 7034 MT= 57 (n,n') Level Cross Section -0.134 To 0.270 % 70-Yb-171



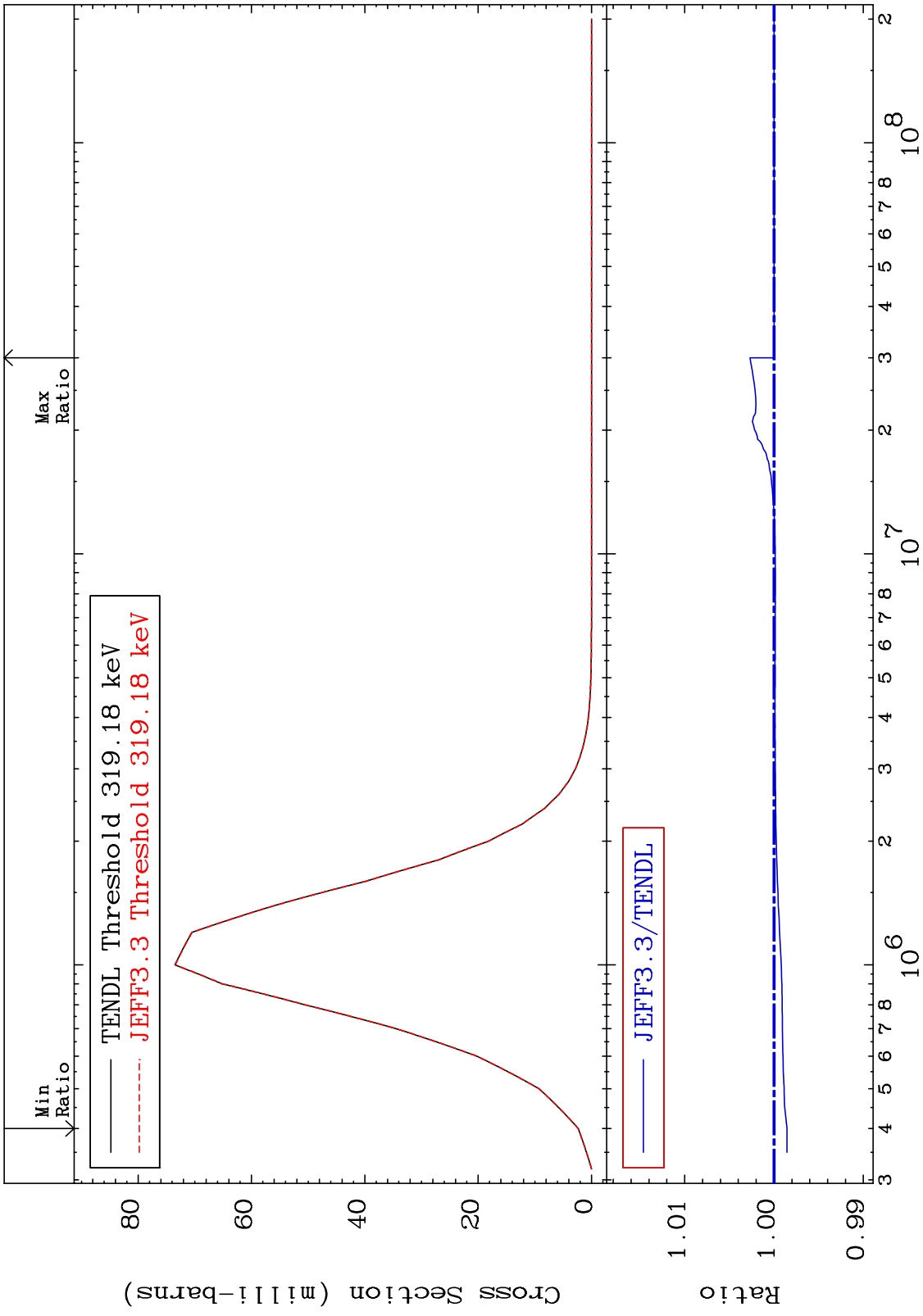
MAT 7034 MT= 58 (n,n') Level Cross Section 70-Yb-171 -0.231 To 0.270 %



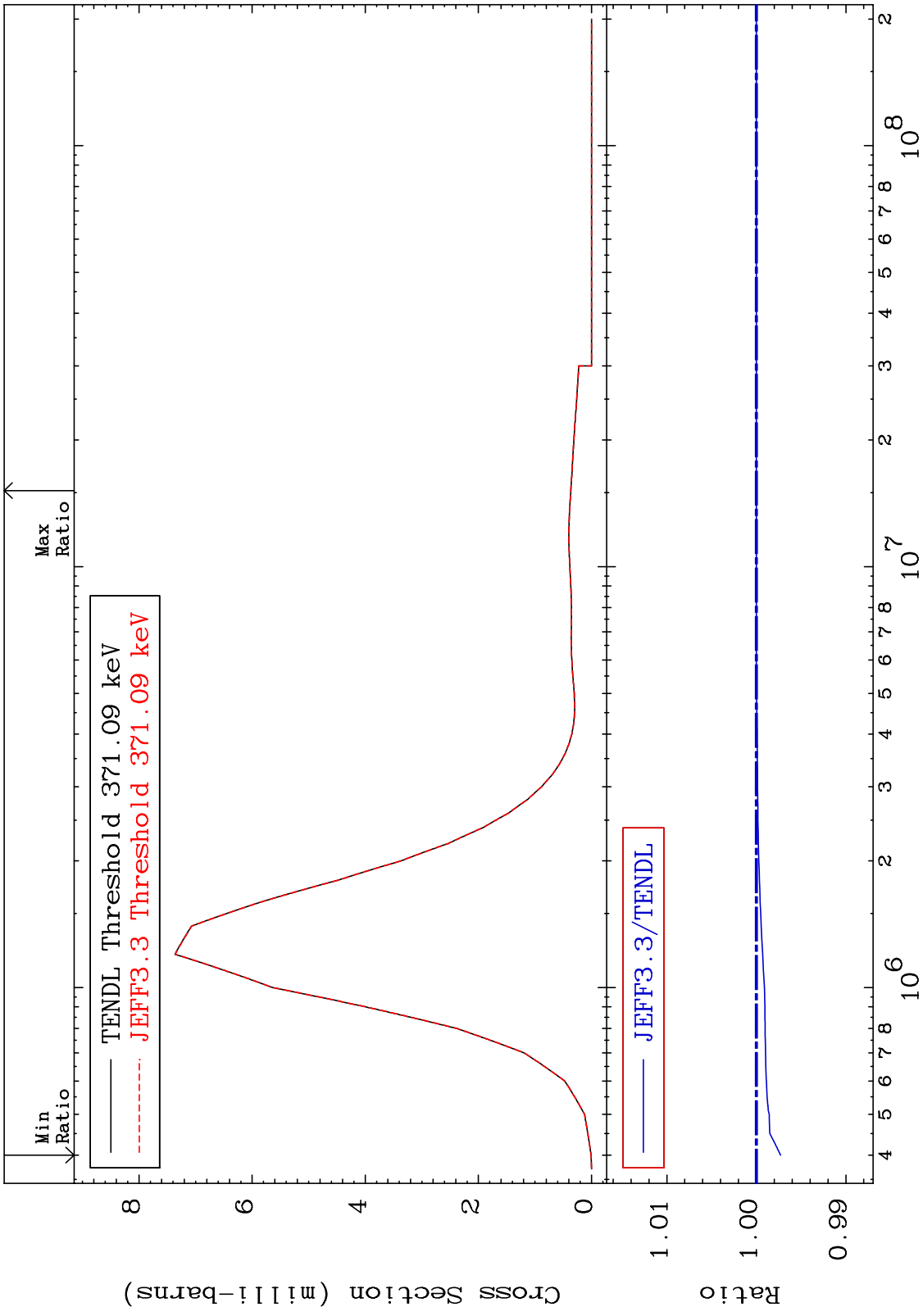
MAT 7034 MT= 59 (n,n') Level Cross Section 70-Yb-171
 -0.378 To 0.270 %



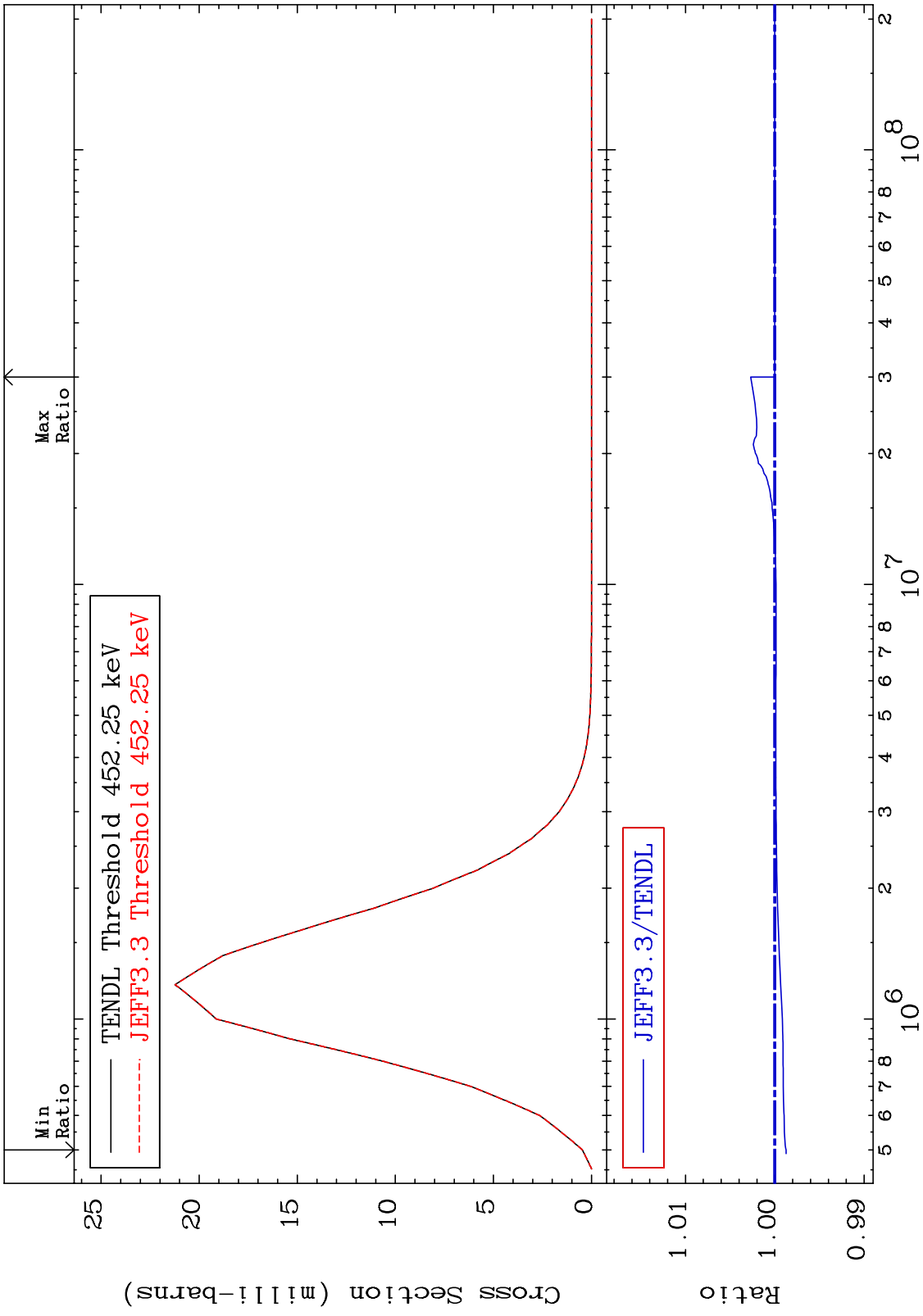
MAT 7034 MT= 60 (n,n') Level Cross Section -0.145 To 0.270 % 70-Yb-171

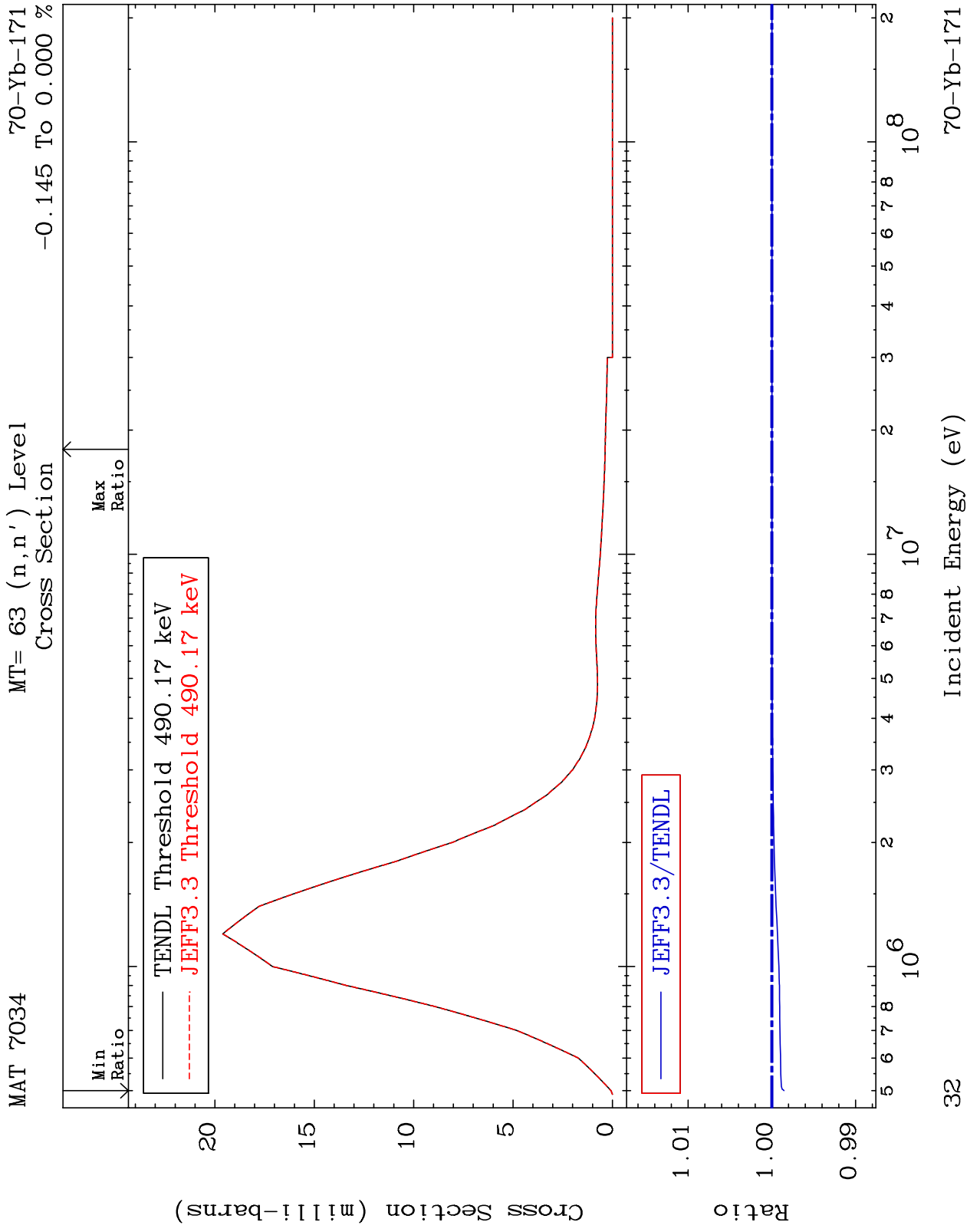


MAT 7034 MT= 61 (n,n') Level Cross Section -0.270 To 0.000 % 70-Yb-171

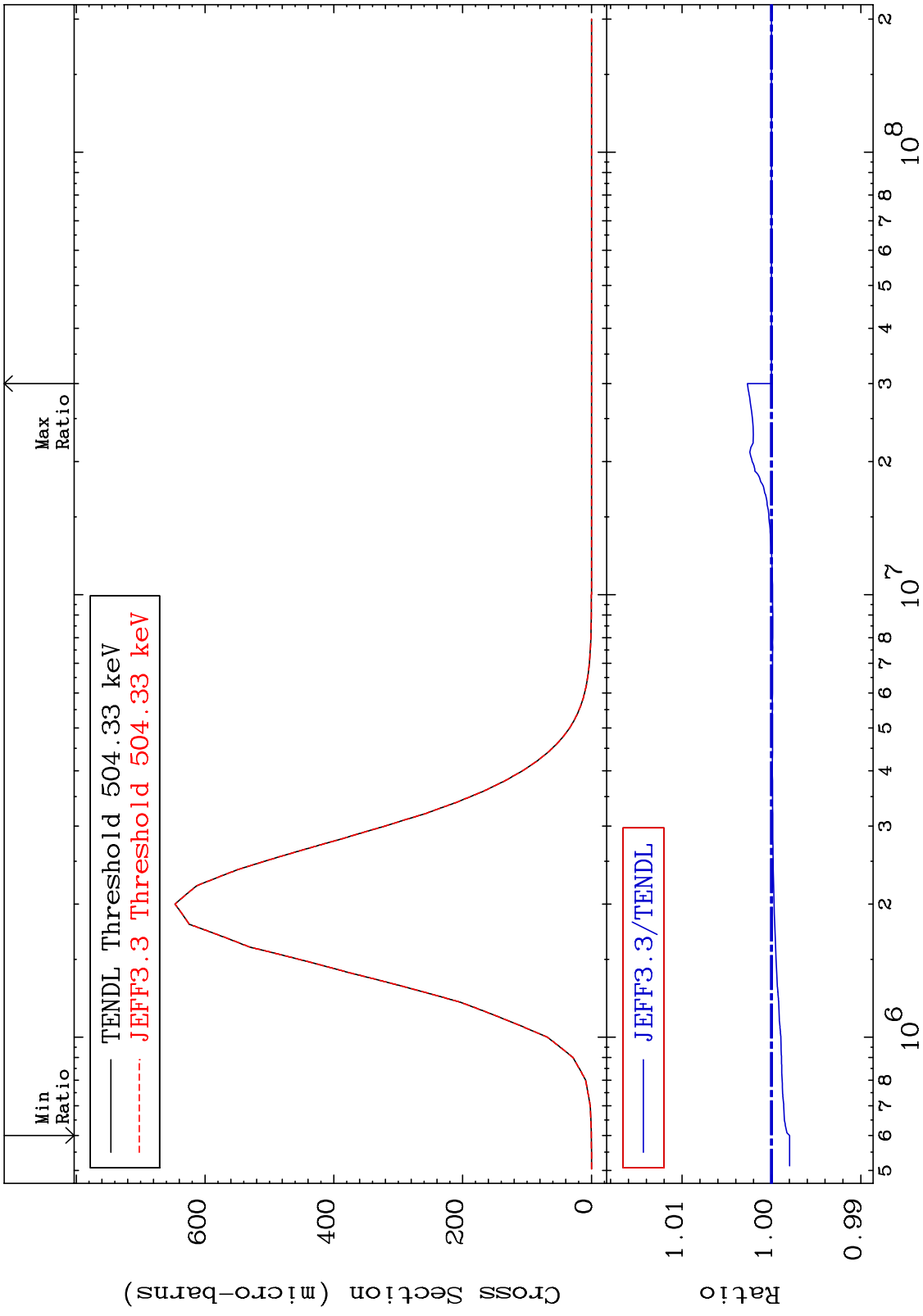


MAT 7034 MT= 62 (n,n') Level Cross Section 70-Yb-171 -0.127 To 0.270 %

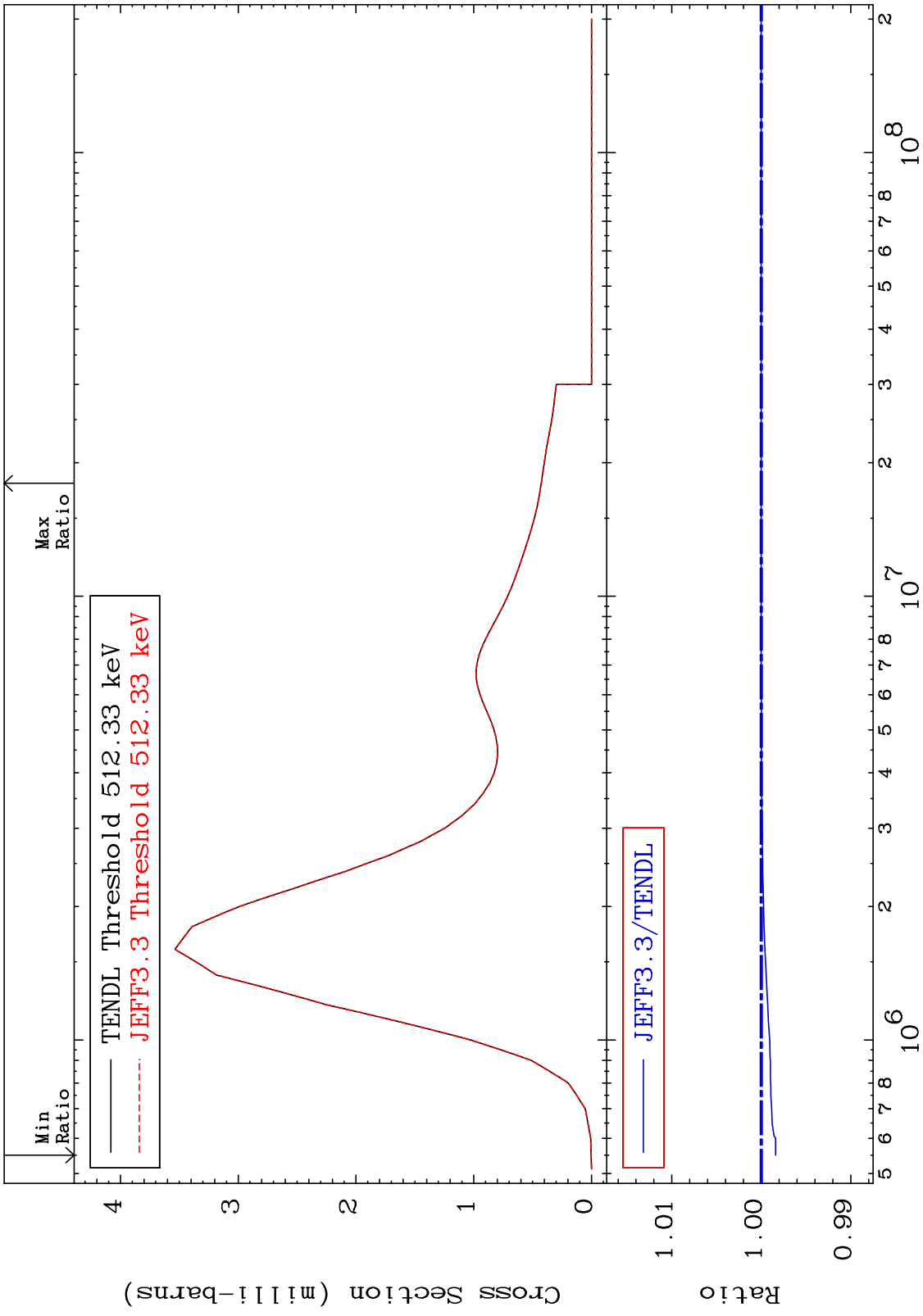




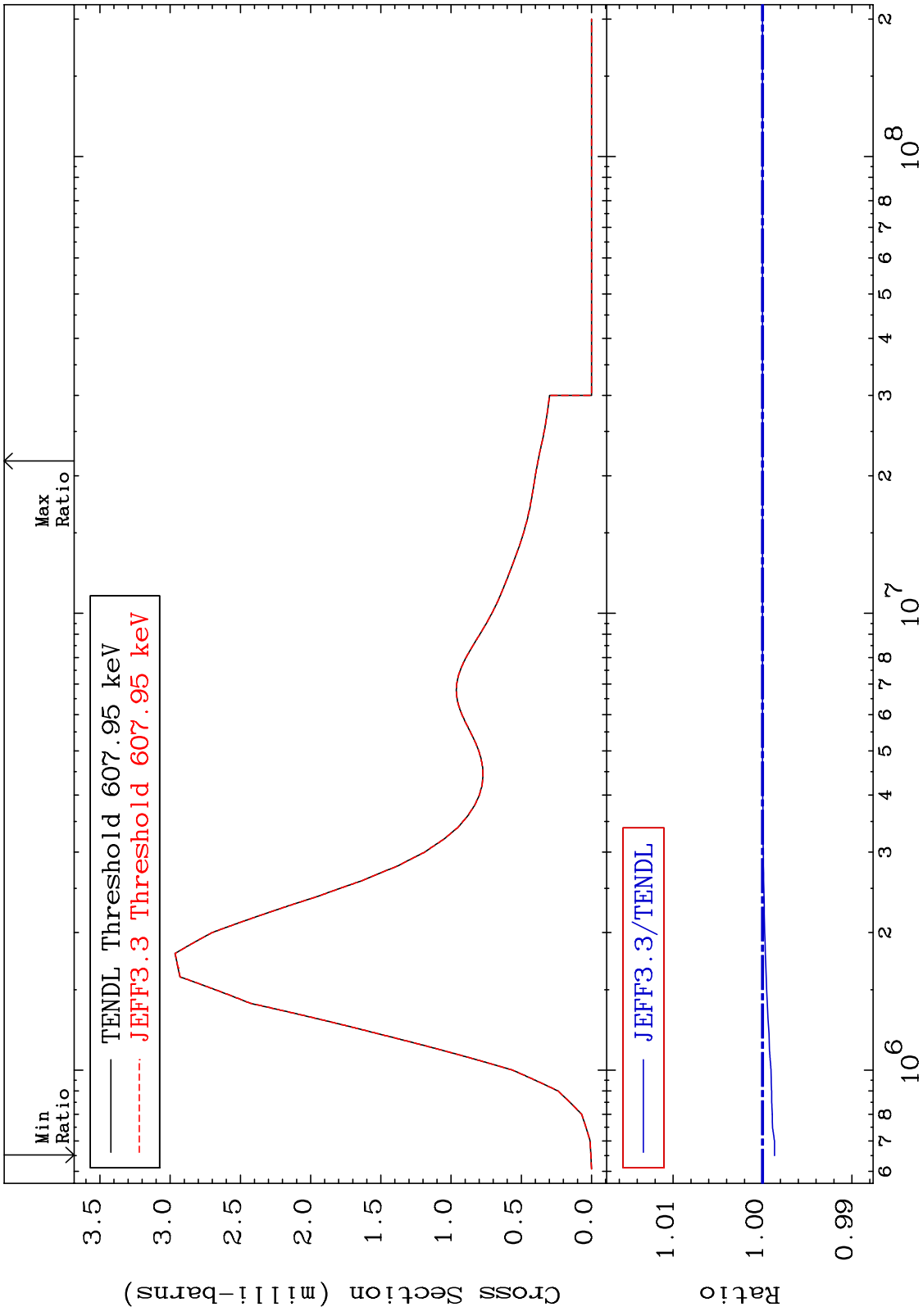
MAT 7034 MT= 64 (n,n') Level Cross Section -0.202 To 0.270 % 70-Yb-171



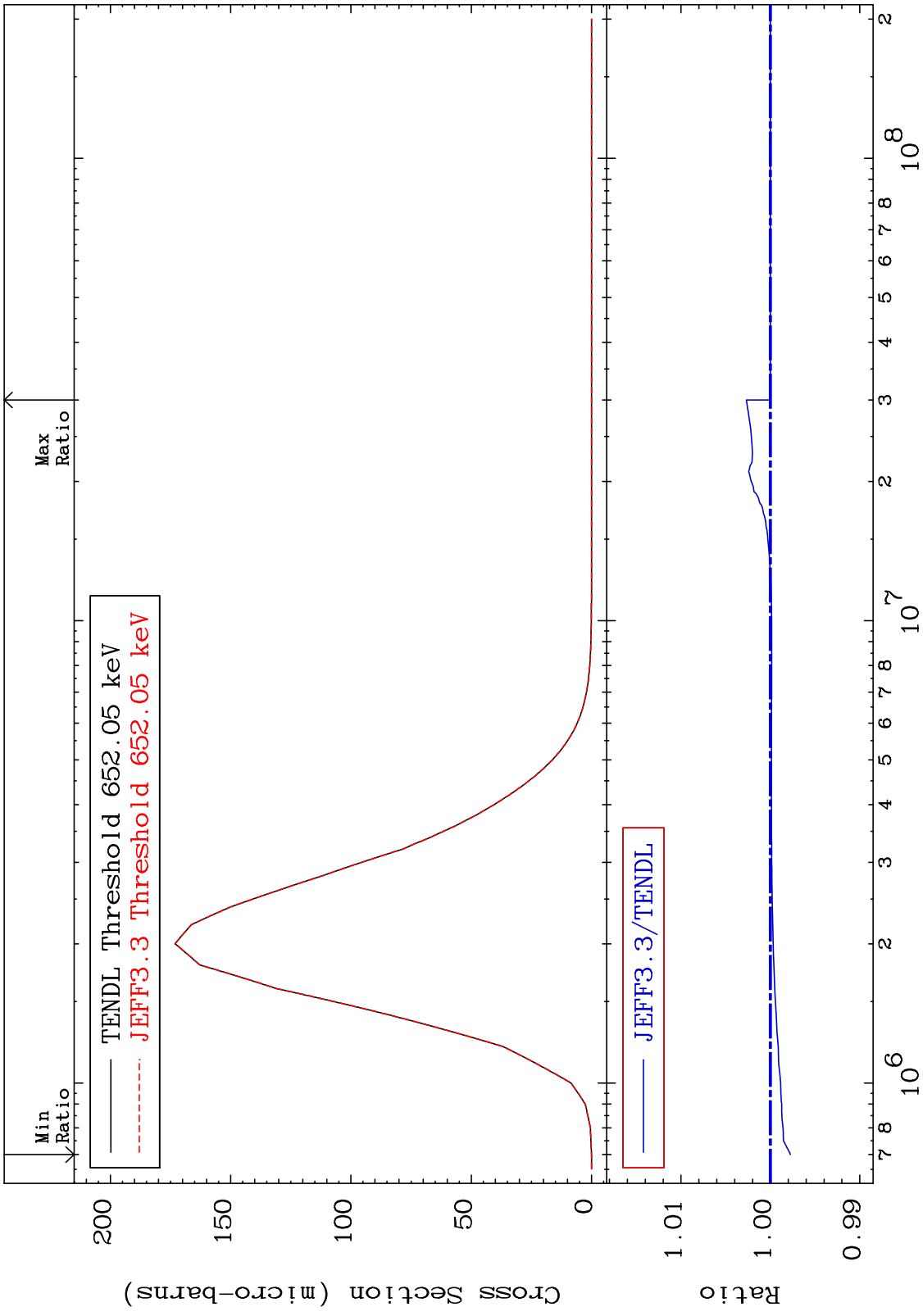
MAT 7034 MT= 65 (n,n') Level Cross Section -0.160 To 0.000 % 70-Yb-171



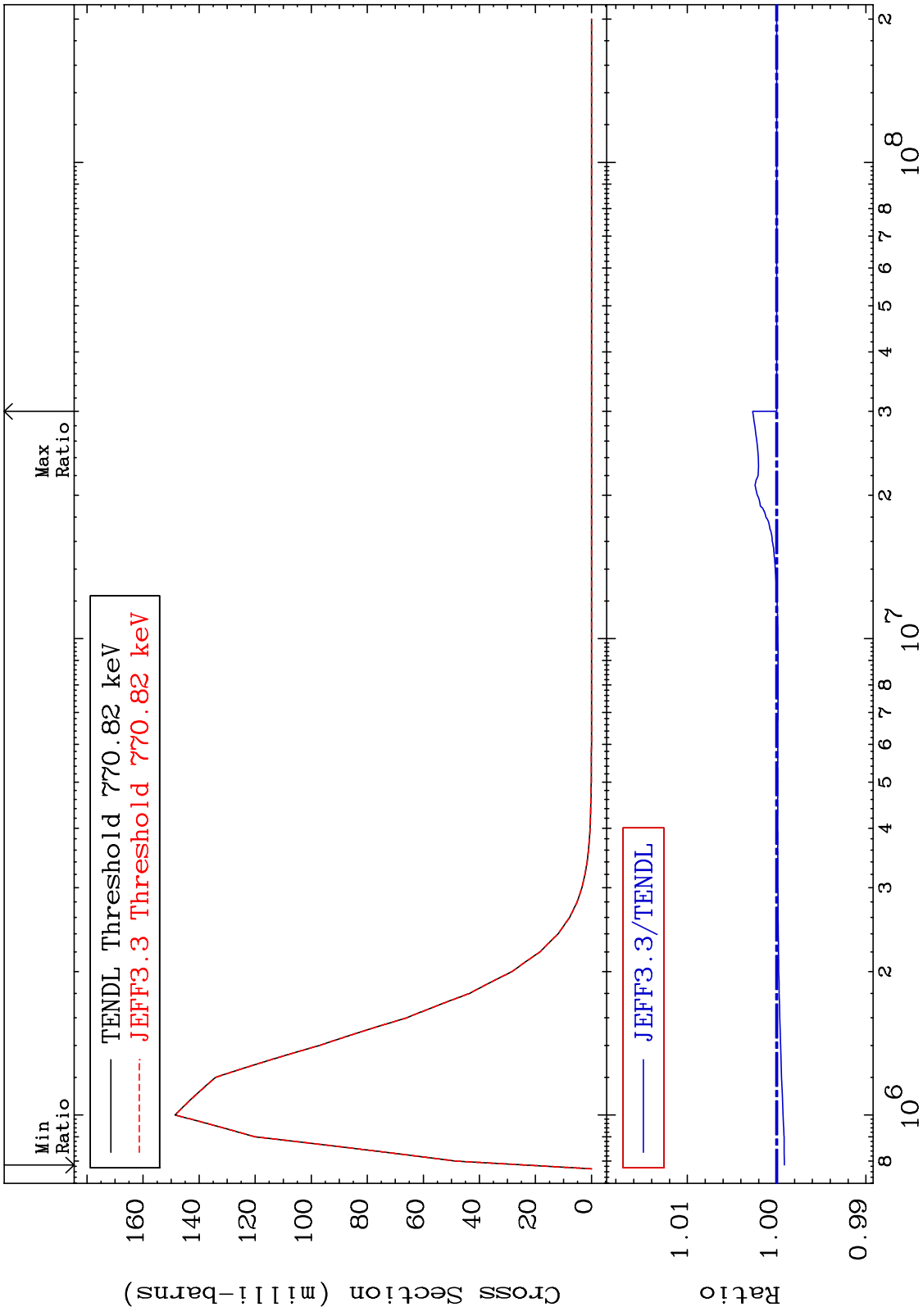
MAT 7034 MT= 66 (n,n') Level Cross Section -0.134 To 0.000 % 70-Yb-171



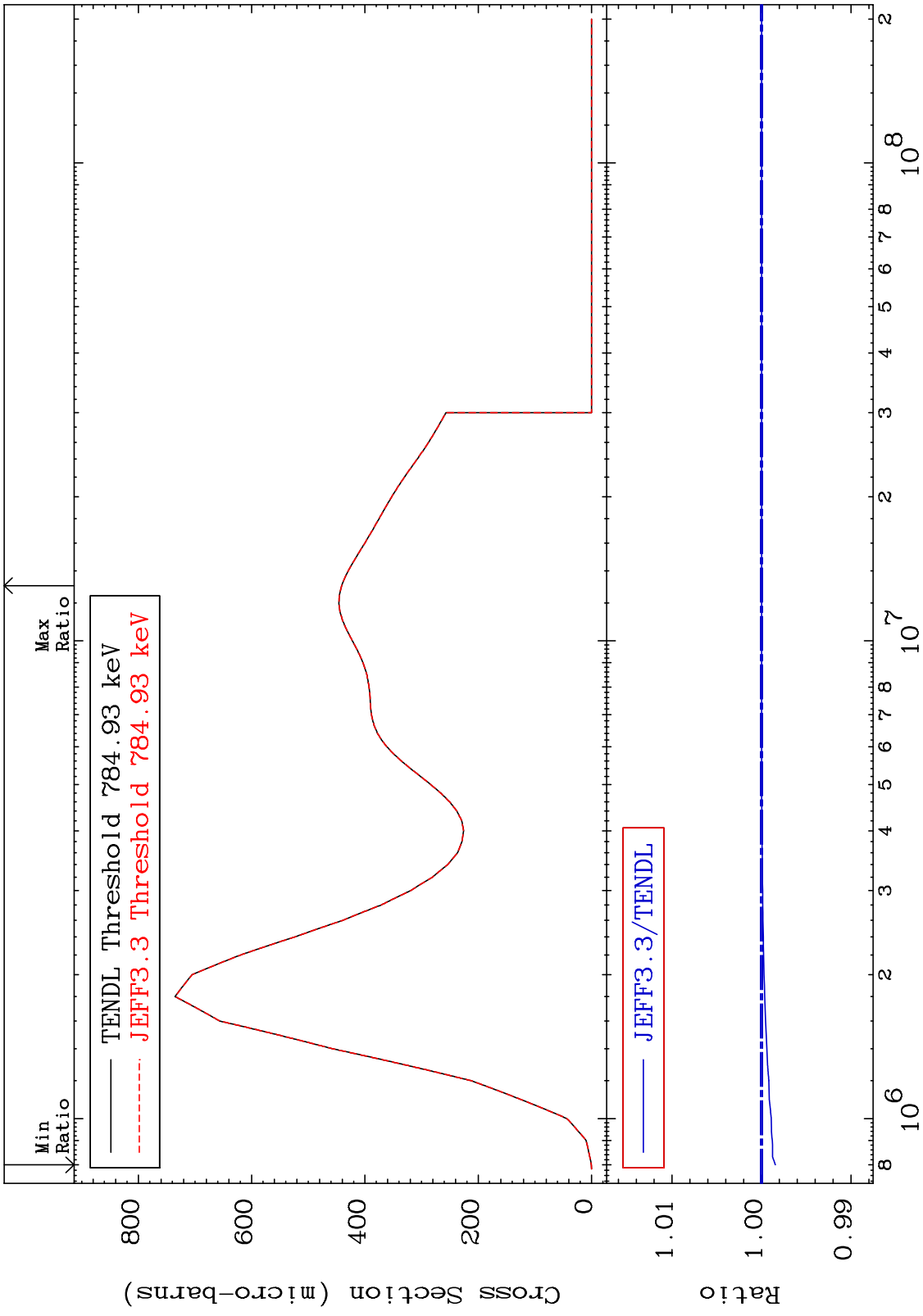
MAT 7034 MT= 67 (n,n') Level Cross Section 70-Yb-171 -0.225 To 0.270 %



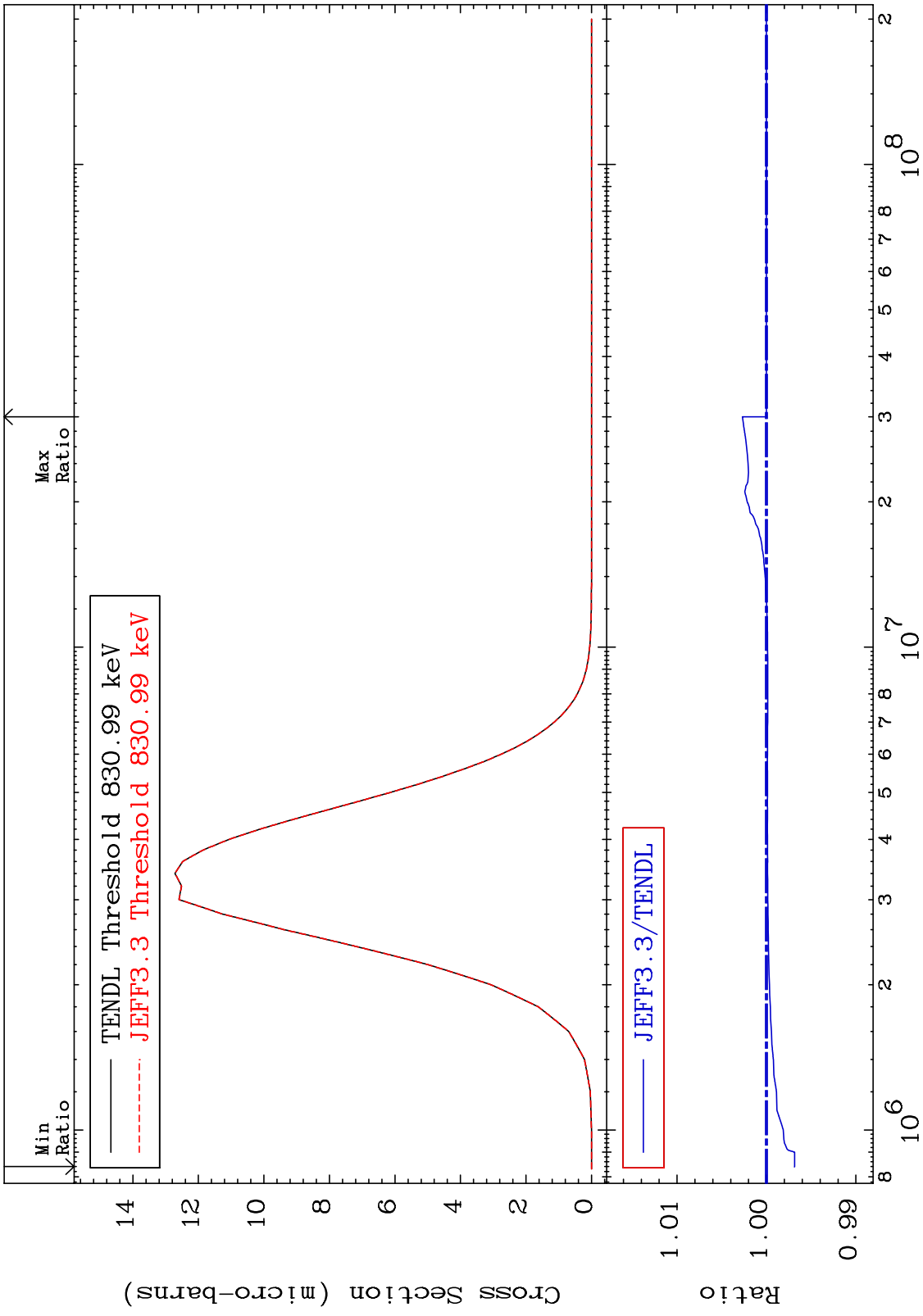
MAT 7034 MT= 68 (n,n') Level Cross Section 70-Yb-171 -0.085 To 0.269 %



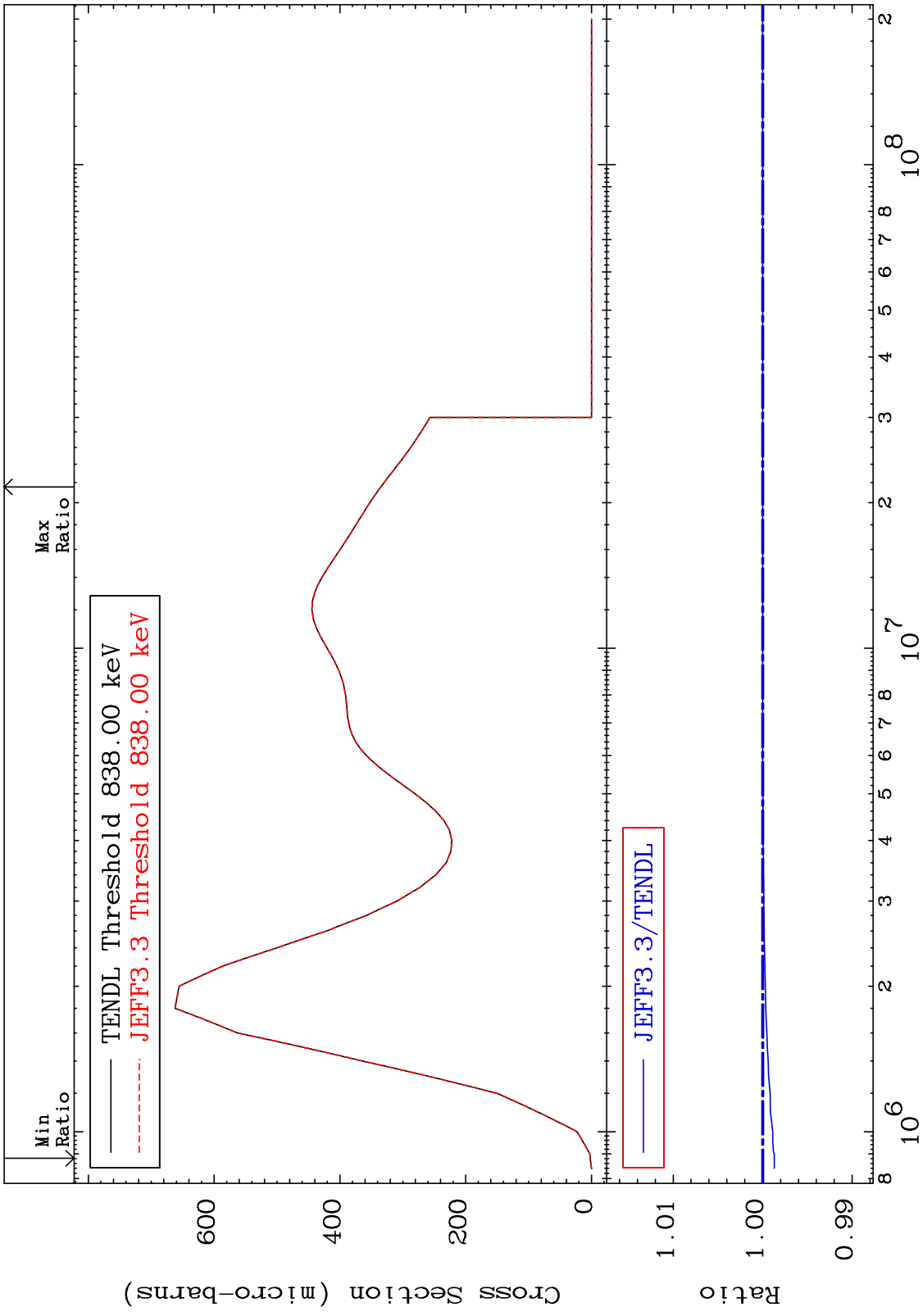
MAT 7034 MT= 69 (n,n') Level Cross Section 70-Yb-171
 -0.155 To 0.000 %



MAT 7034 MT= 70 (n,n') Level Cross Section 70-Yb-171 -0.314 To 0.270 %

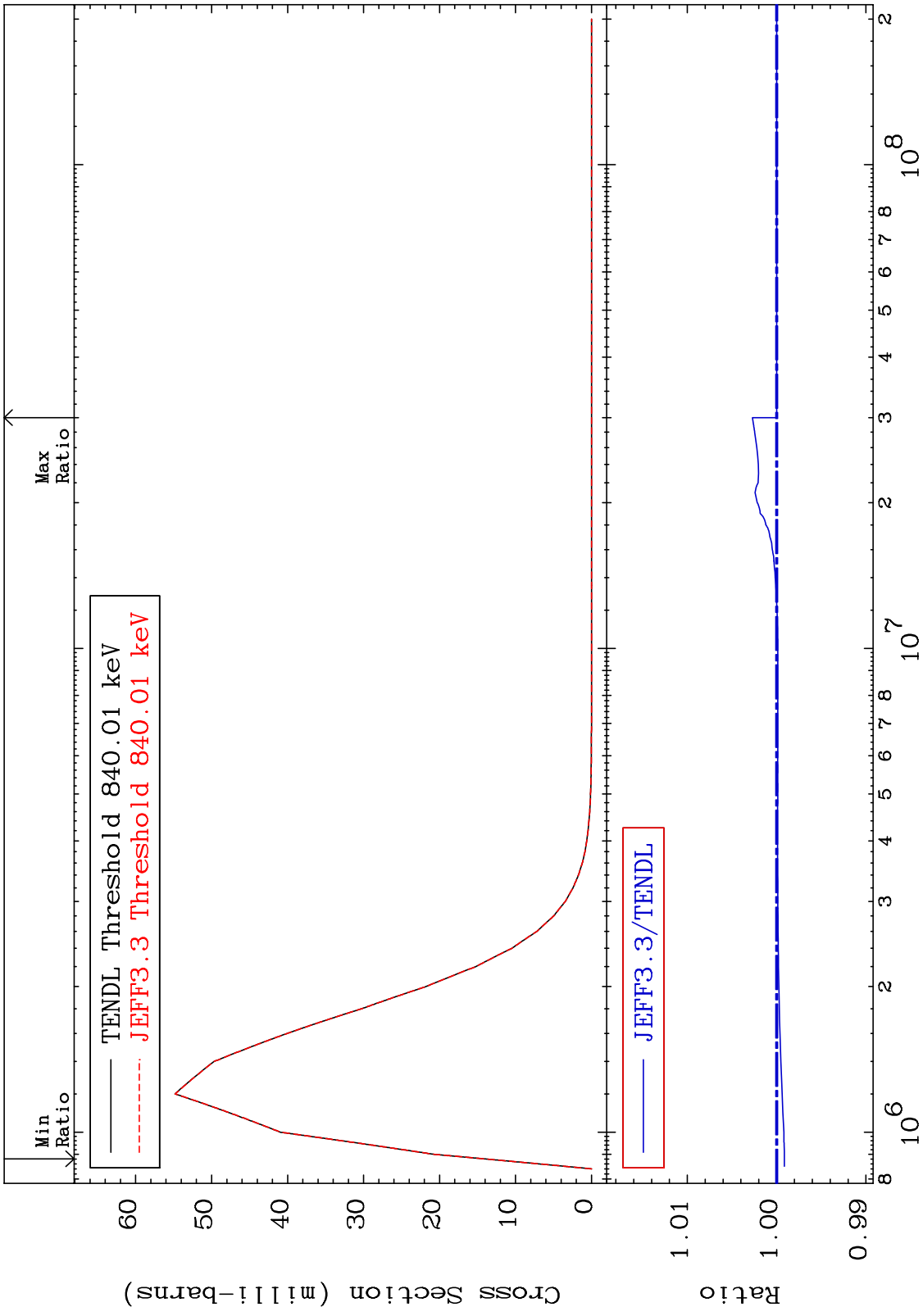


MAT 7034 MT= 71 (n,n') Level Cross Section -0.129 To 0.000 % 70-Yb-171

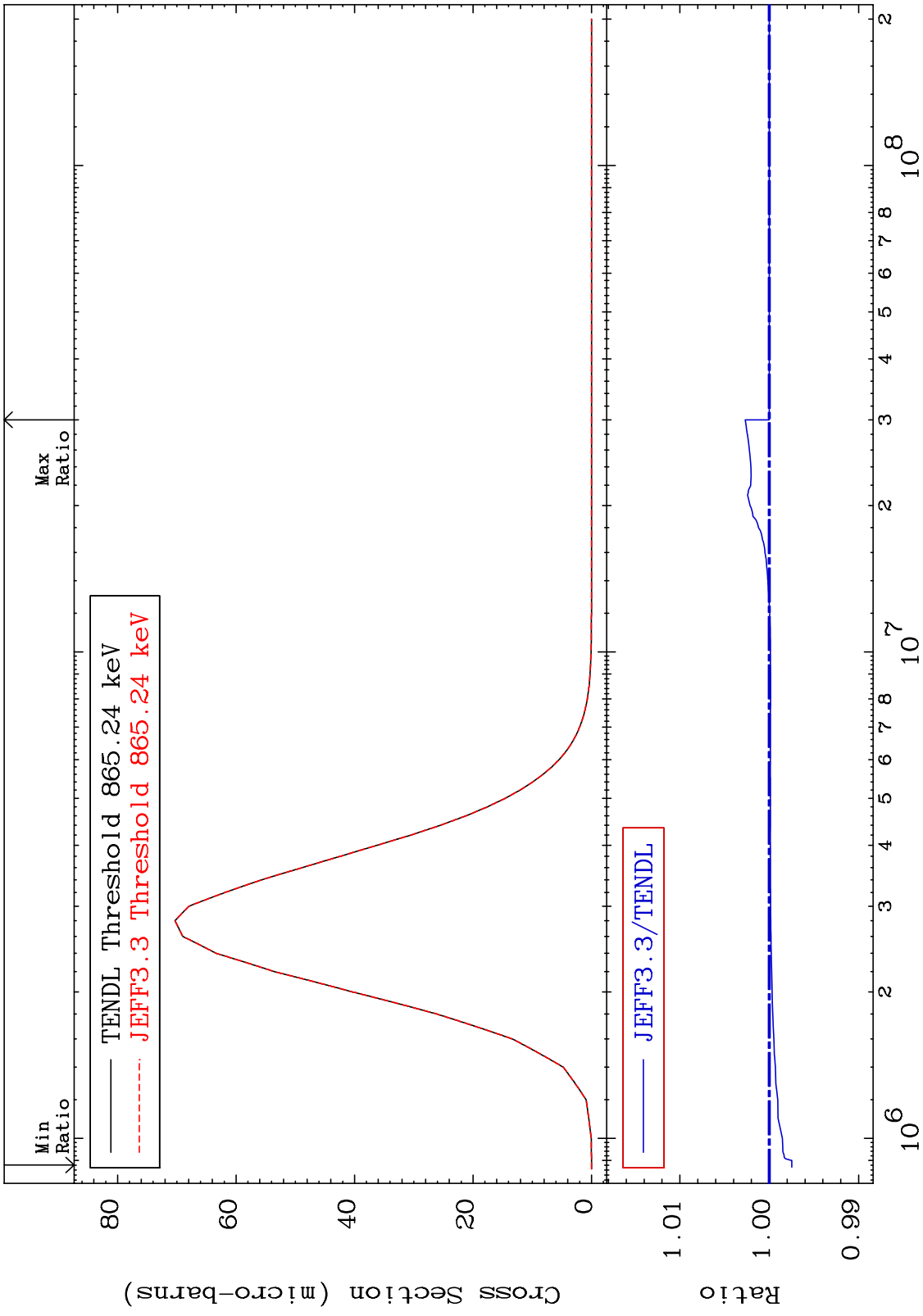


40 8 10⁶ 10⁷ 10⁸ 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 70-Yb-171

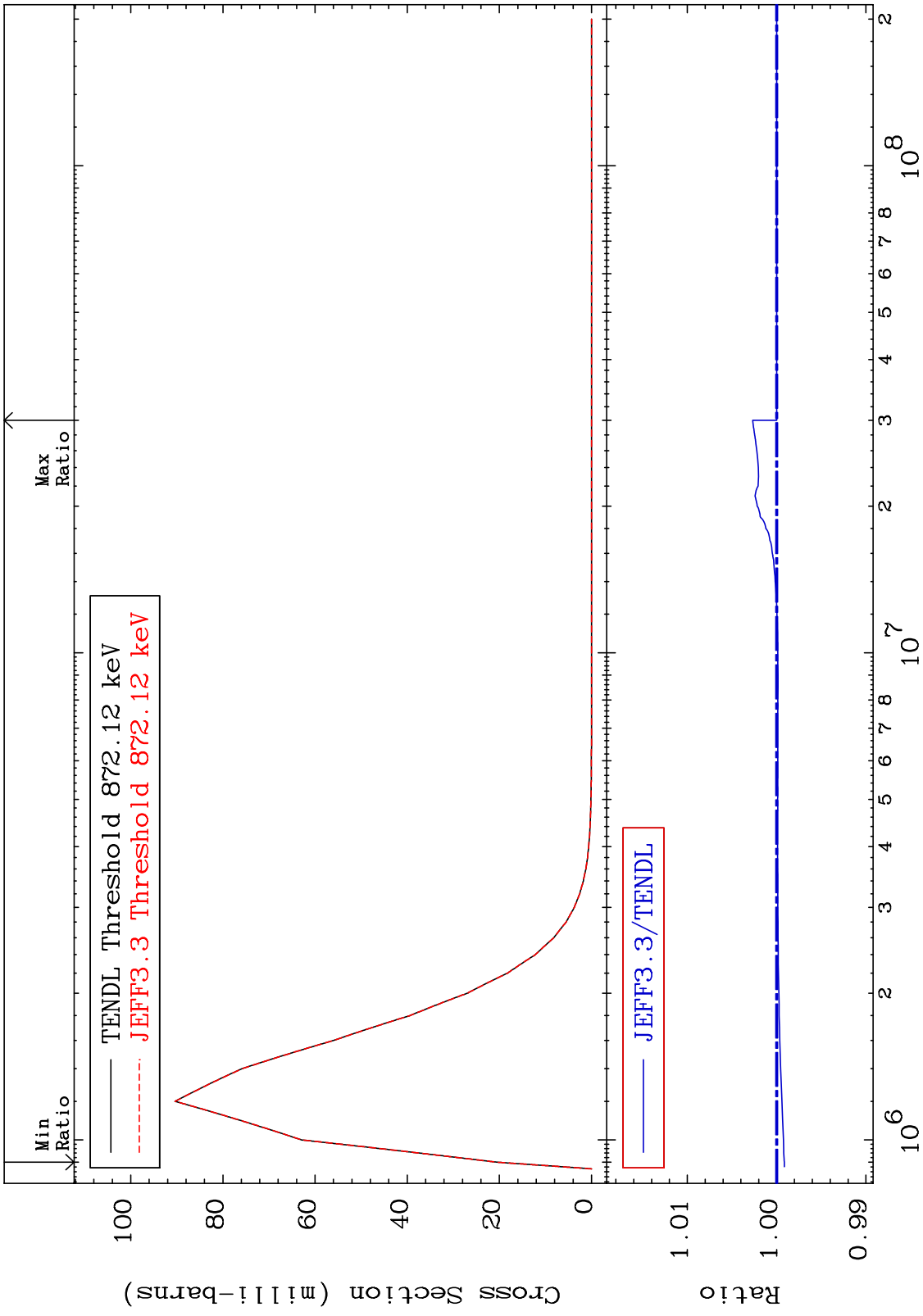
MAT 7034 MT= 72 (n,n') Level Cross Section 70-Yb-171
 -0.087 To 0.270 %



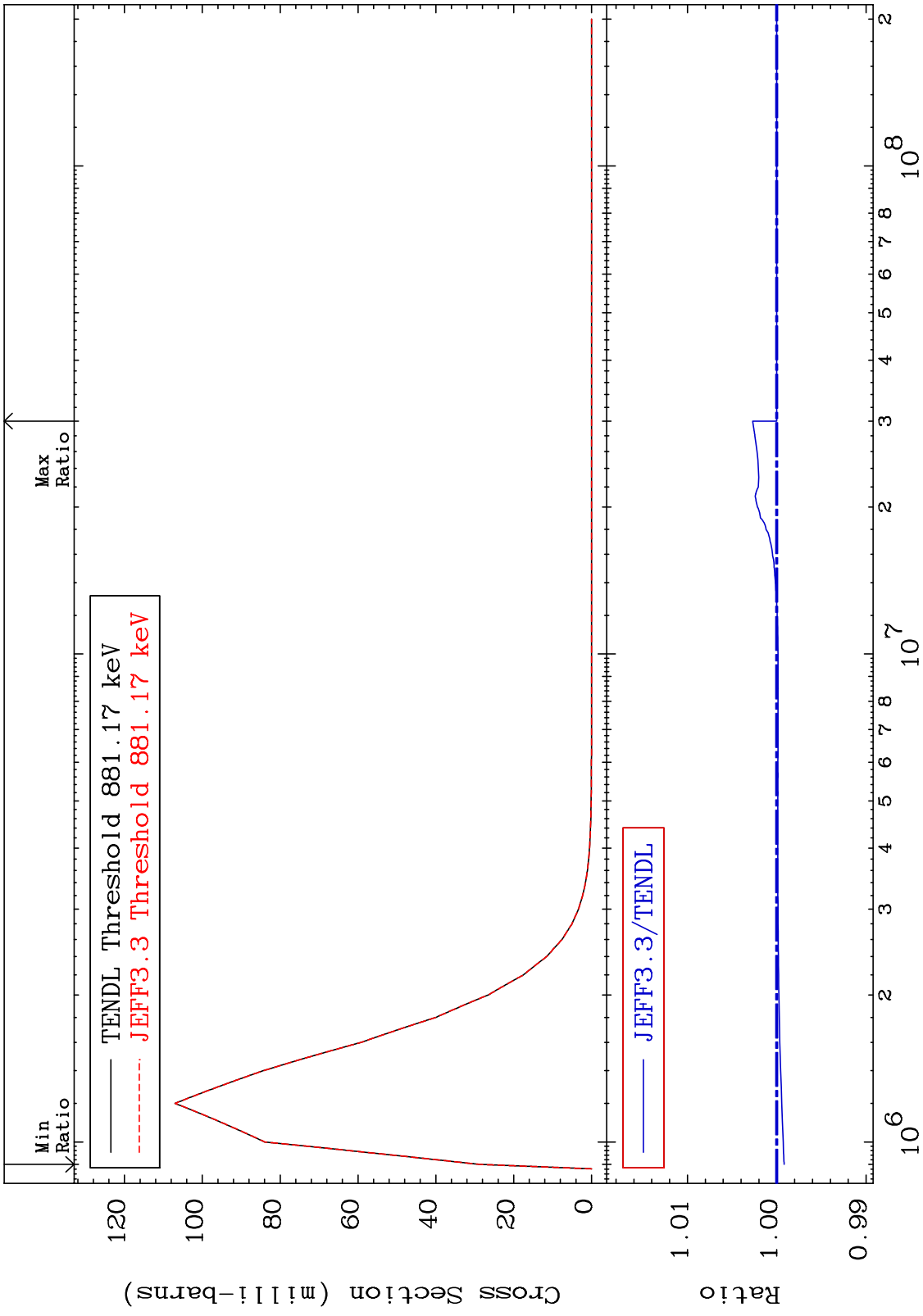
MAT 7034 MT= 73 (n,n') Level Cross Section 70-Yb-171 -0.251 To 0.270 %



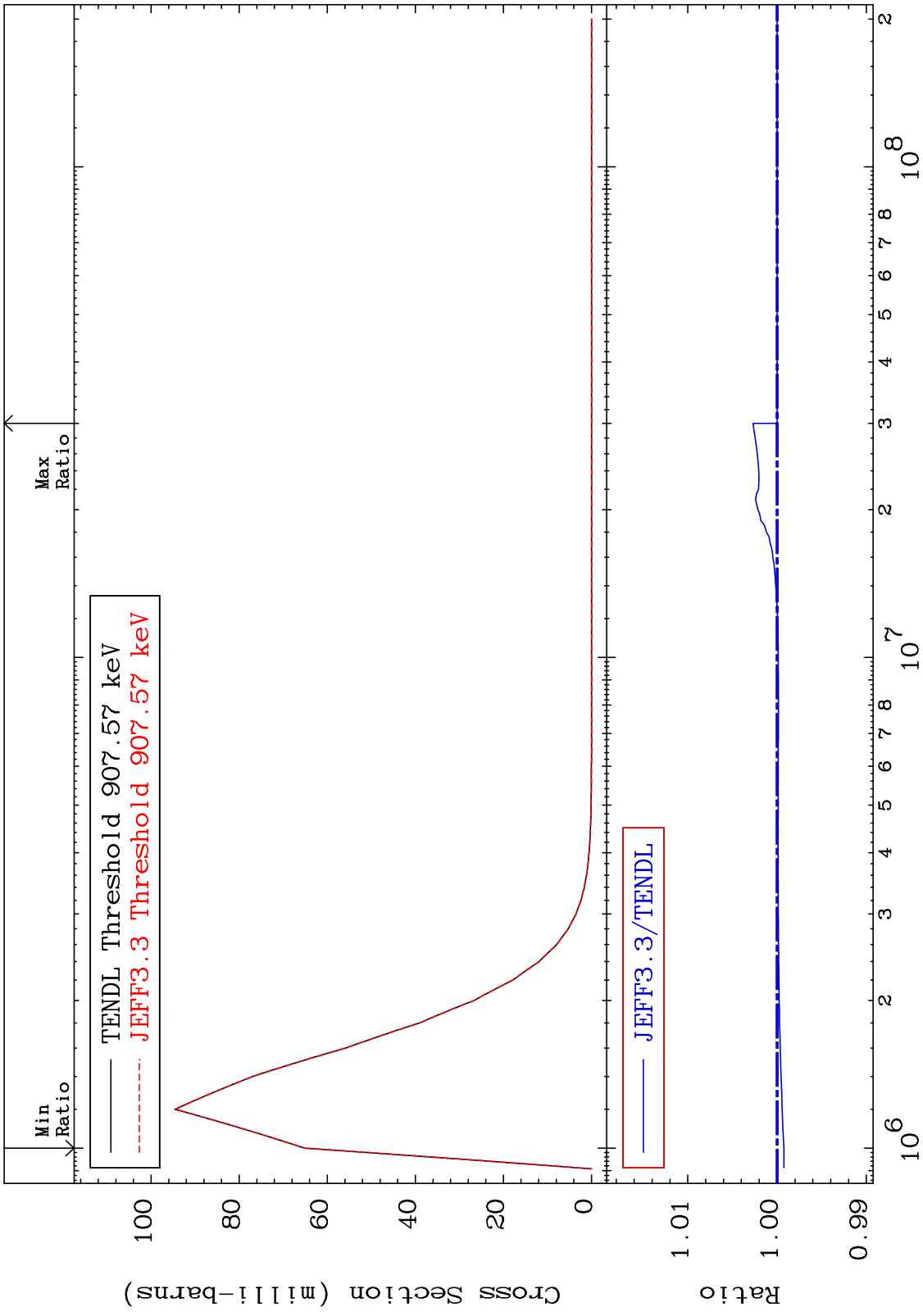
MAT 7034 MT= 74 (n,n') Level Cross Section 70-Yb-171 -0.086 To 0.269 %



MAT 7034 MT= 75 (n,n') Level Cross Section 70-Yb-171
 -0.083 To 0.270 %

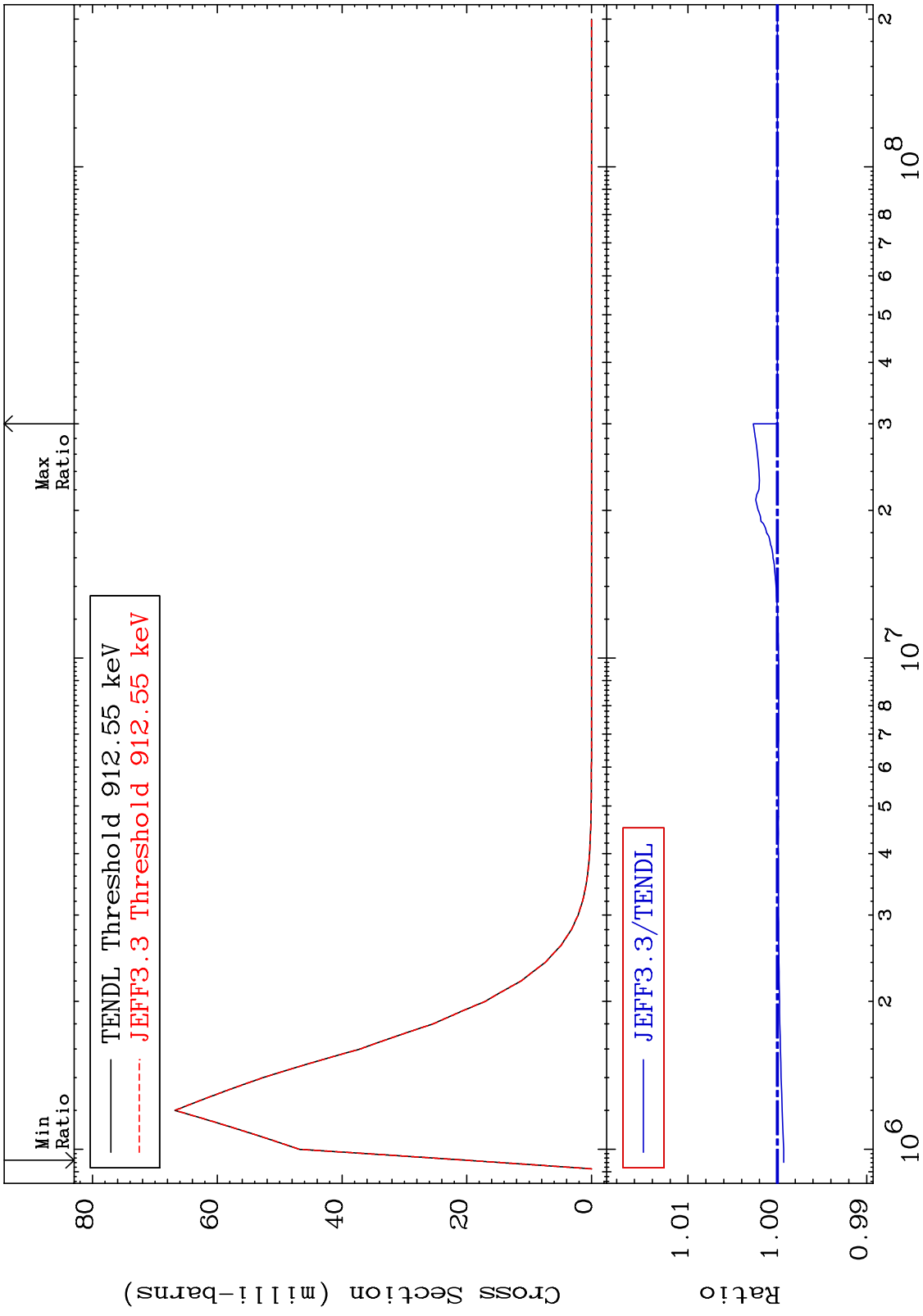


MAT 7034 MT= 76 (n,n') Level Cross Section 70-Yb-171 -0.075 To 0.269 %



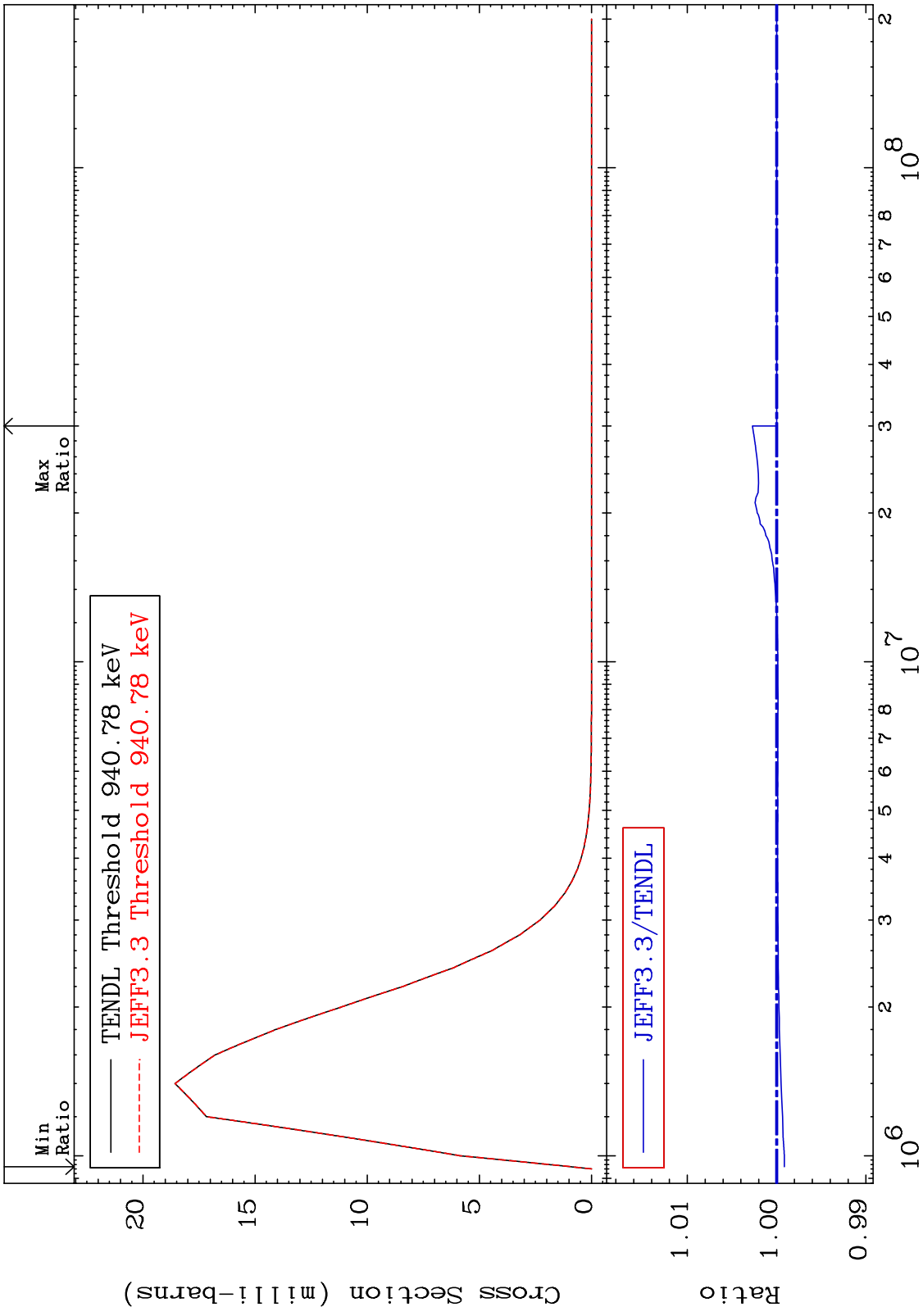
45 70-Yb-171

MAT 7034 MT= 77 (n,n') Level Cross Section 70-Yb-171 -0.070 To 0.270 %



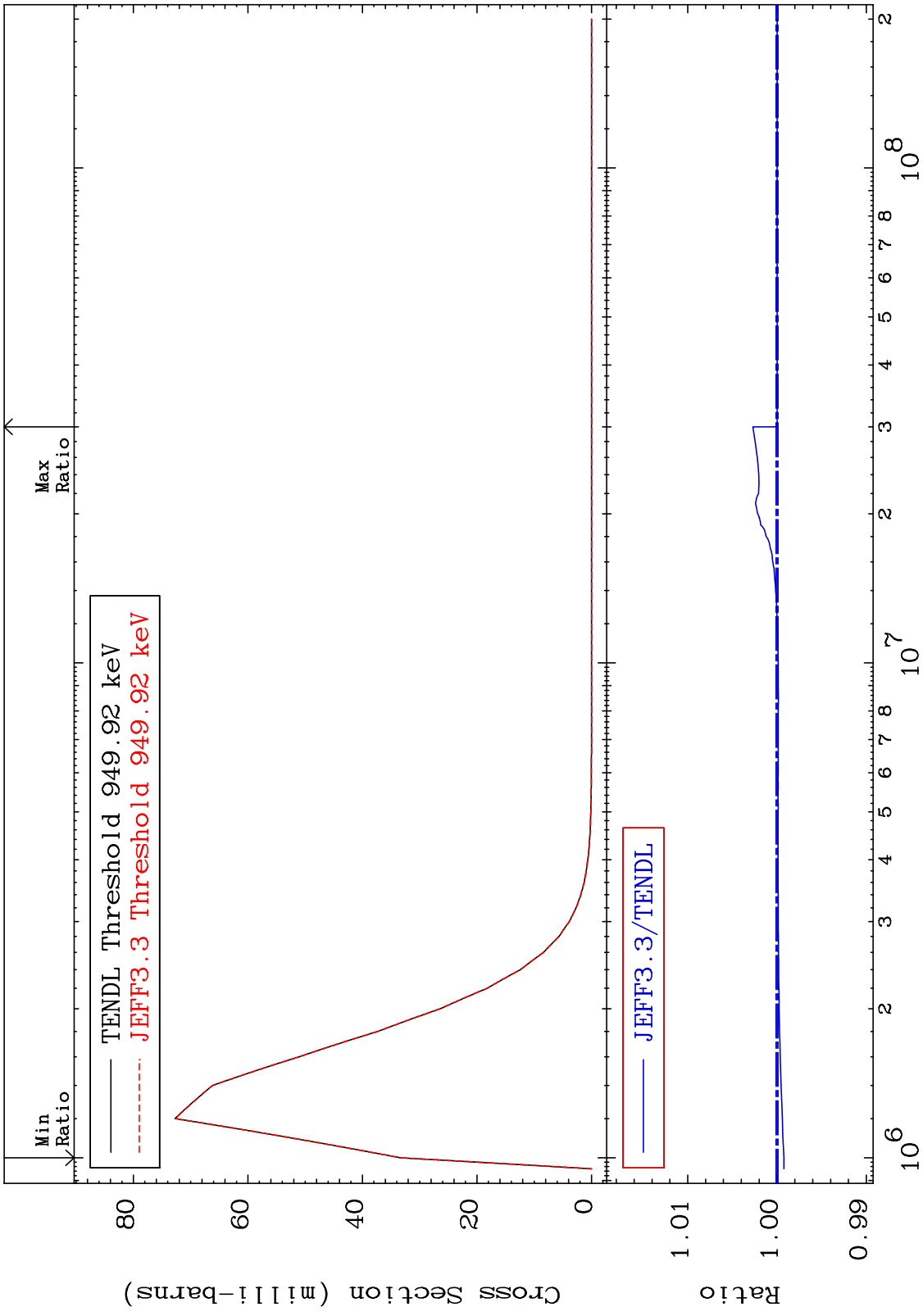
46 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 78 (n,n') Level Cross Section 70-Yb-171
 -0.086 To 0.270 %



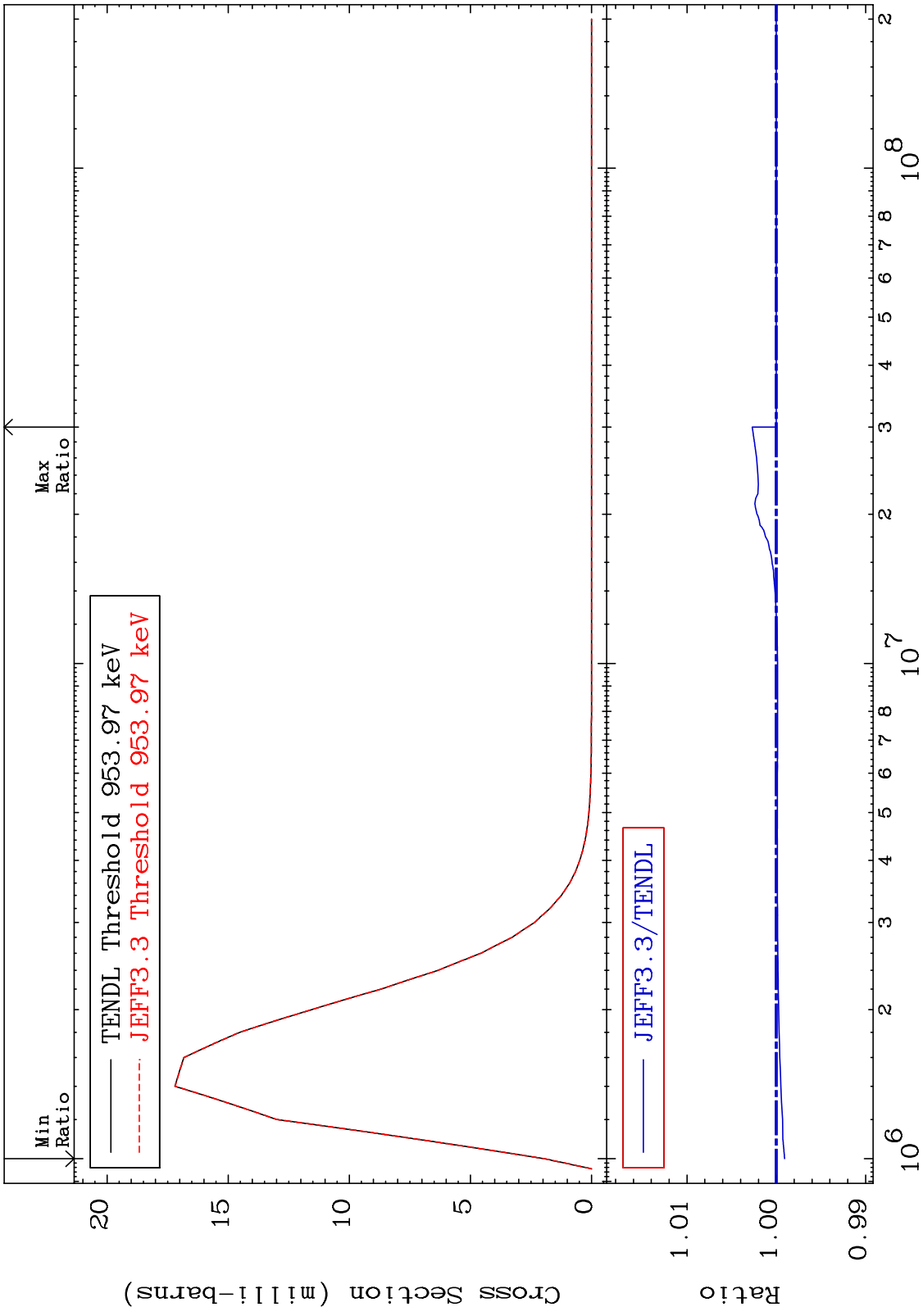
47 70-Yb-171

MAT 7034 MT= 79 (n,n') Level Cross Section 70-Yb-171 -0.077 To 0.270 %



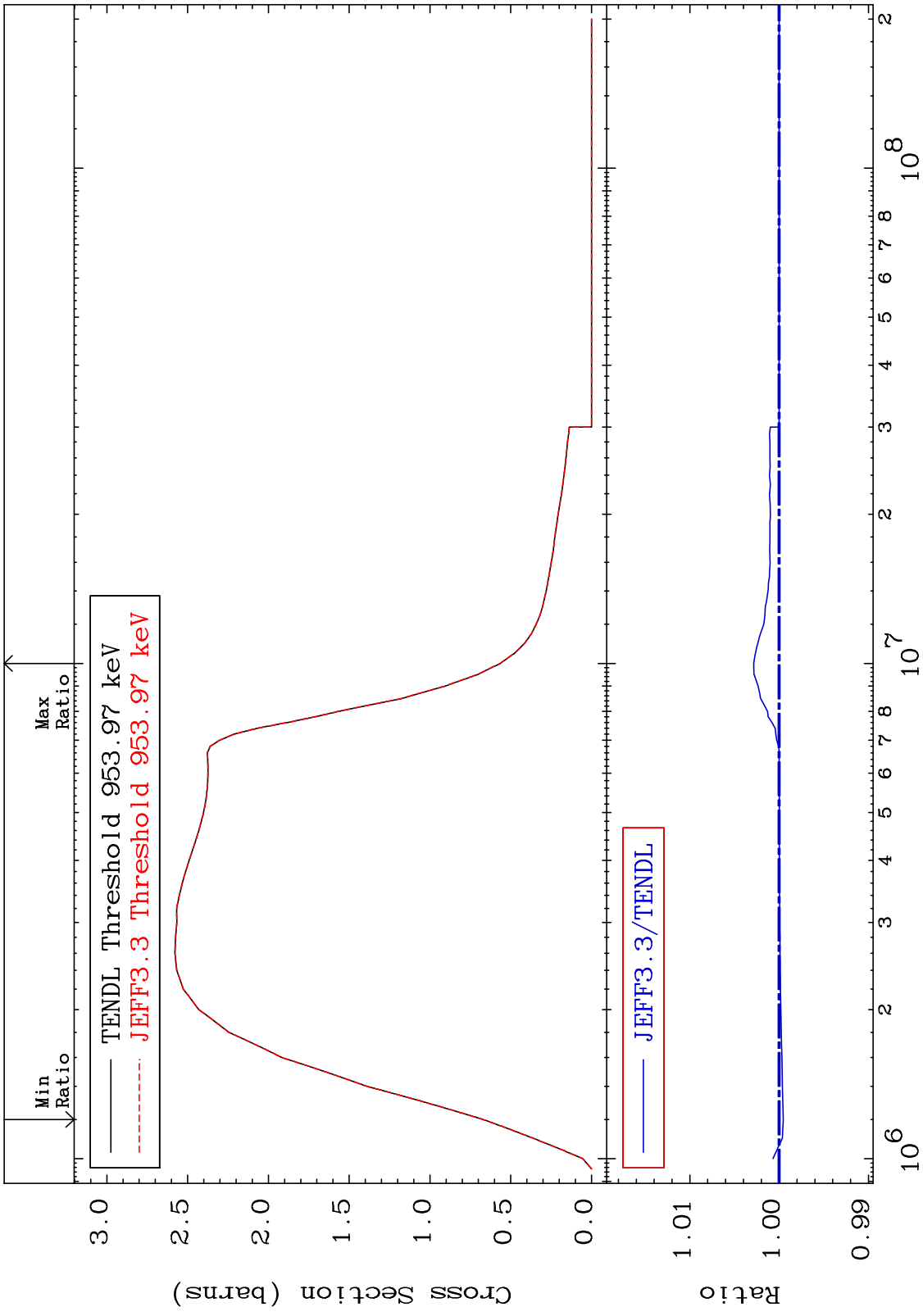
48 70-Yb-171

MAT 7034 MT= 80 (n,n') Level Cross Section 70-Yb-171
 -0.093 To 0.269 %



49 Incident Energy (eV) 70-Yb-171

MAT 7034 (n, n') Continuum Cross Section 70-Yb-171 -0.045 To 0.285 %

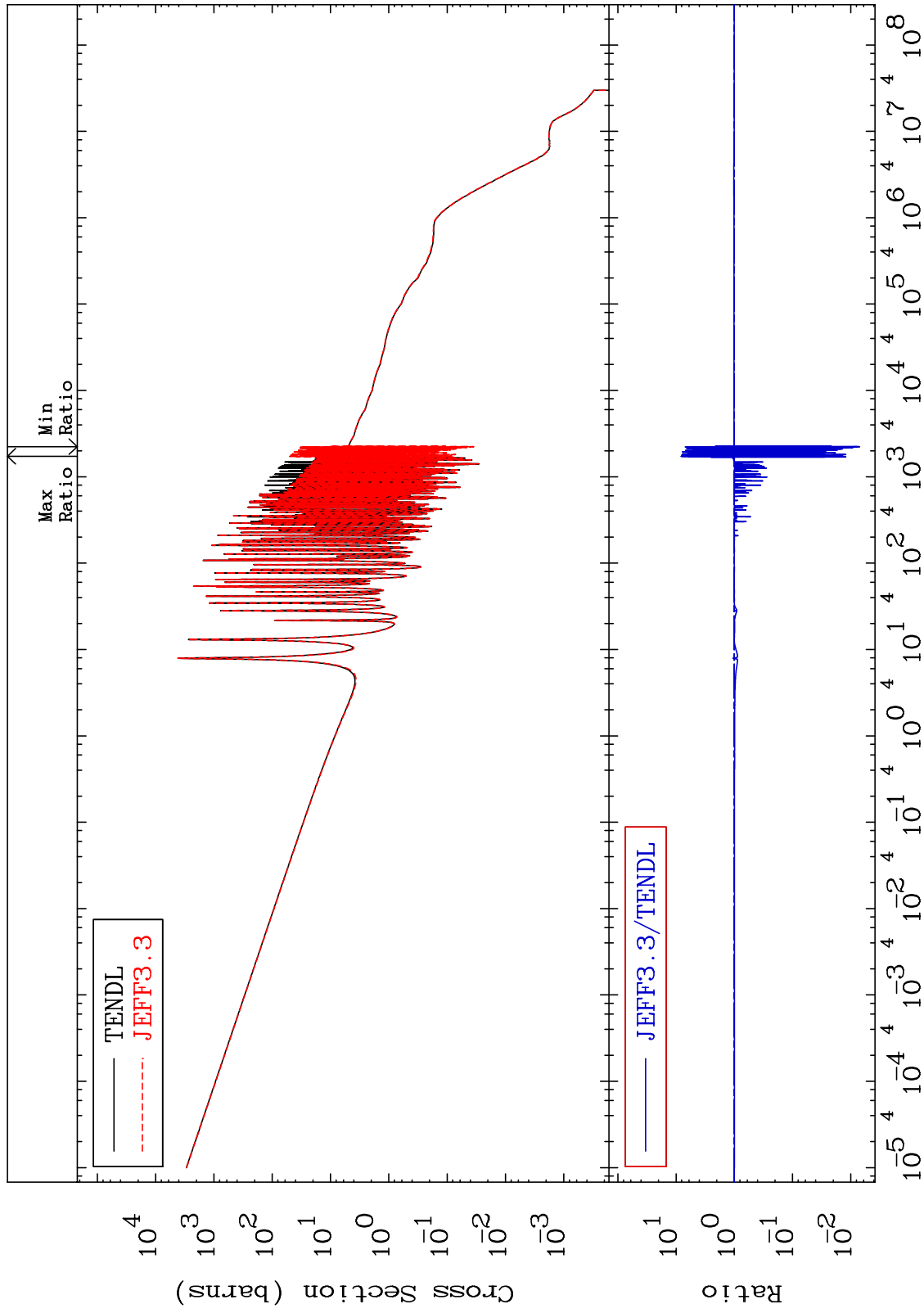


50 70-Yb-171

MAT 7034

(n, γ)
Cross Section

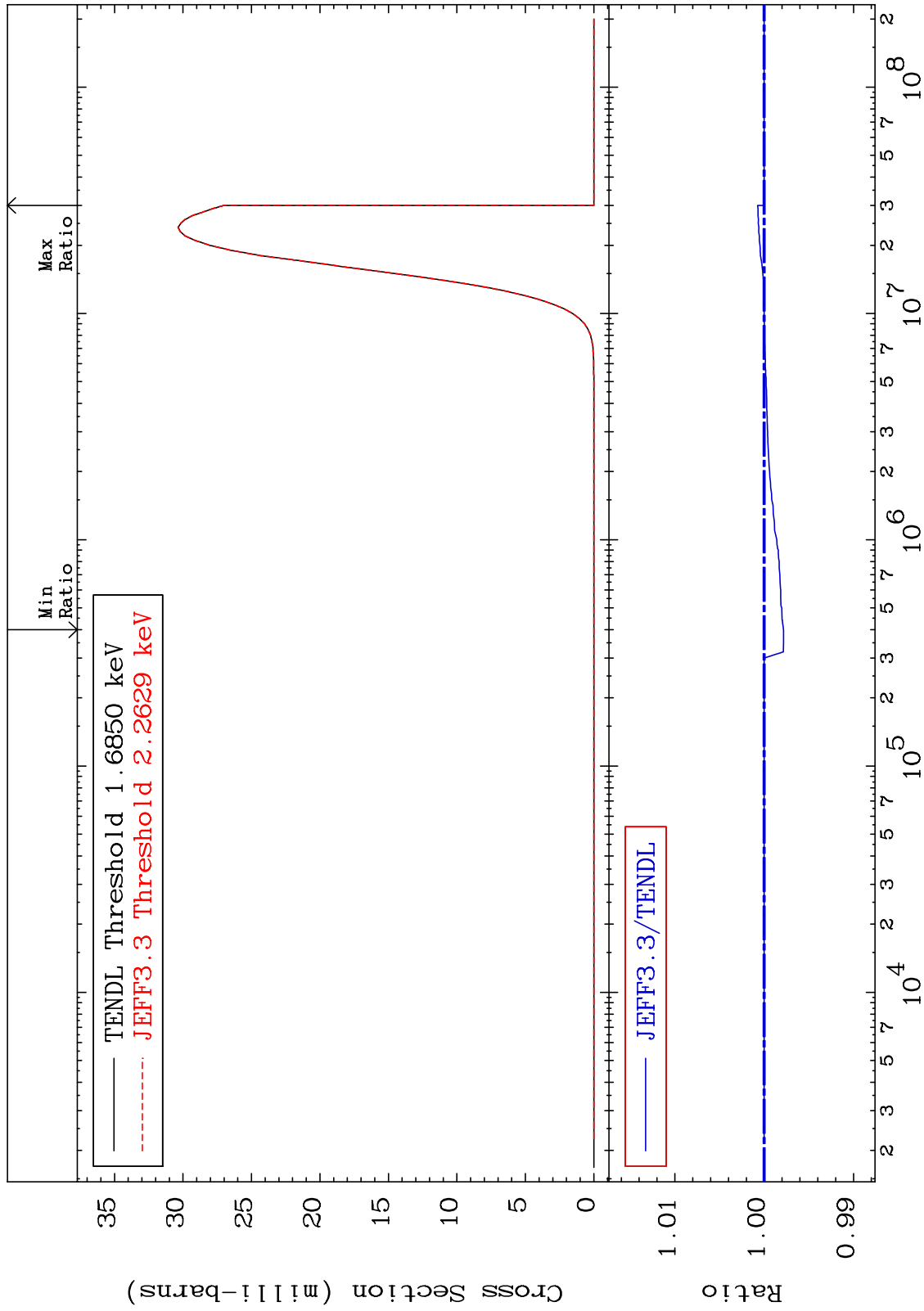
70-Yb-171
-99.30 To 715.0 %



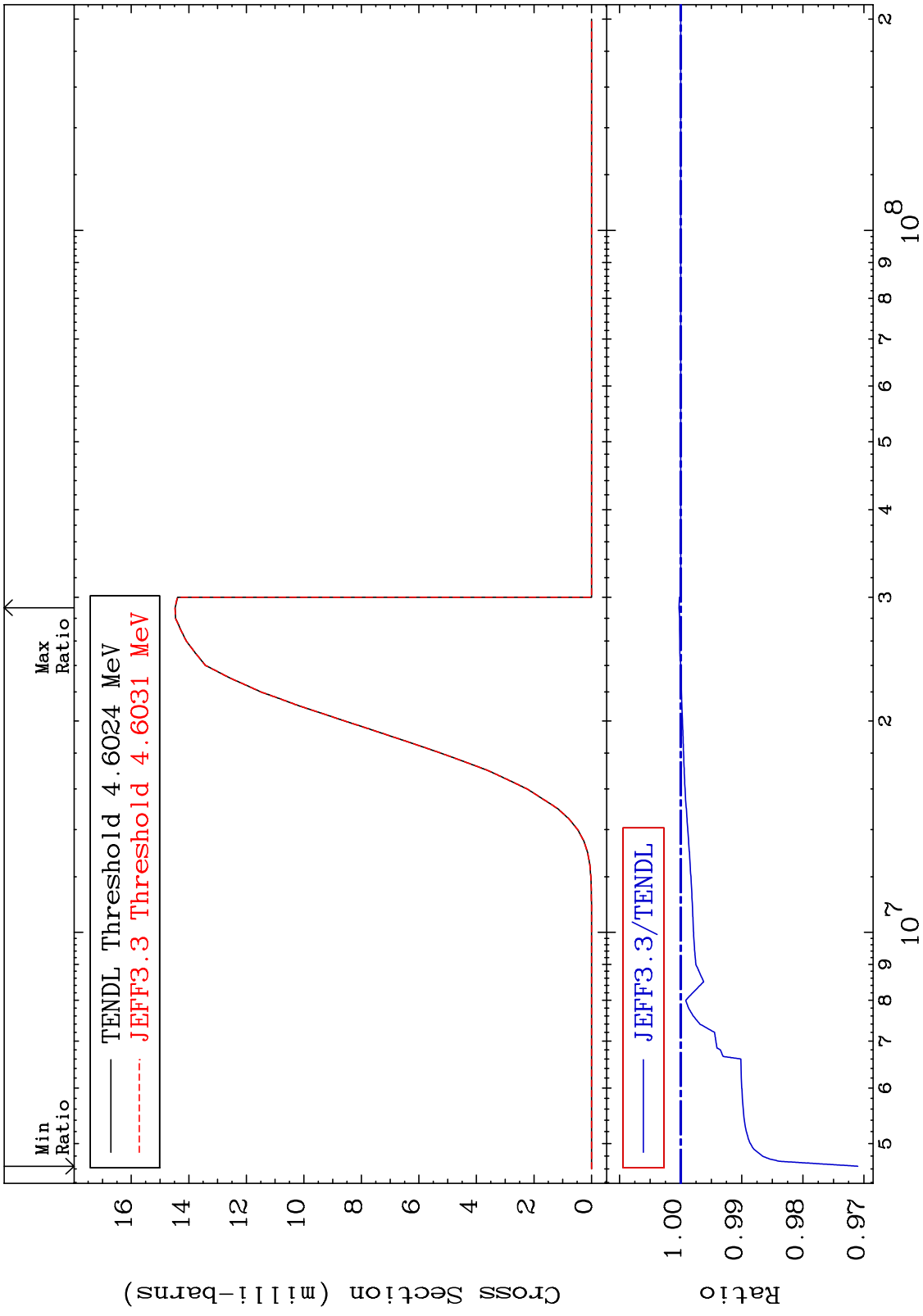
MAT 7034

(n,p)
Cross Section

70-Yb-171
-0.216 To 0.075 %



MAT 7034 (n,d) 70-Yb-171
 Cross Section -2.900 To 0.027 %



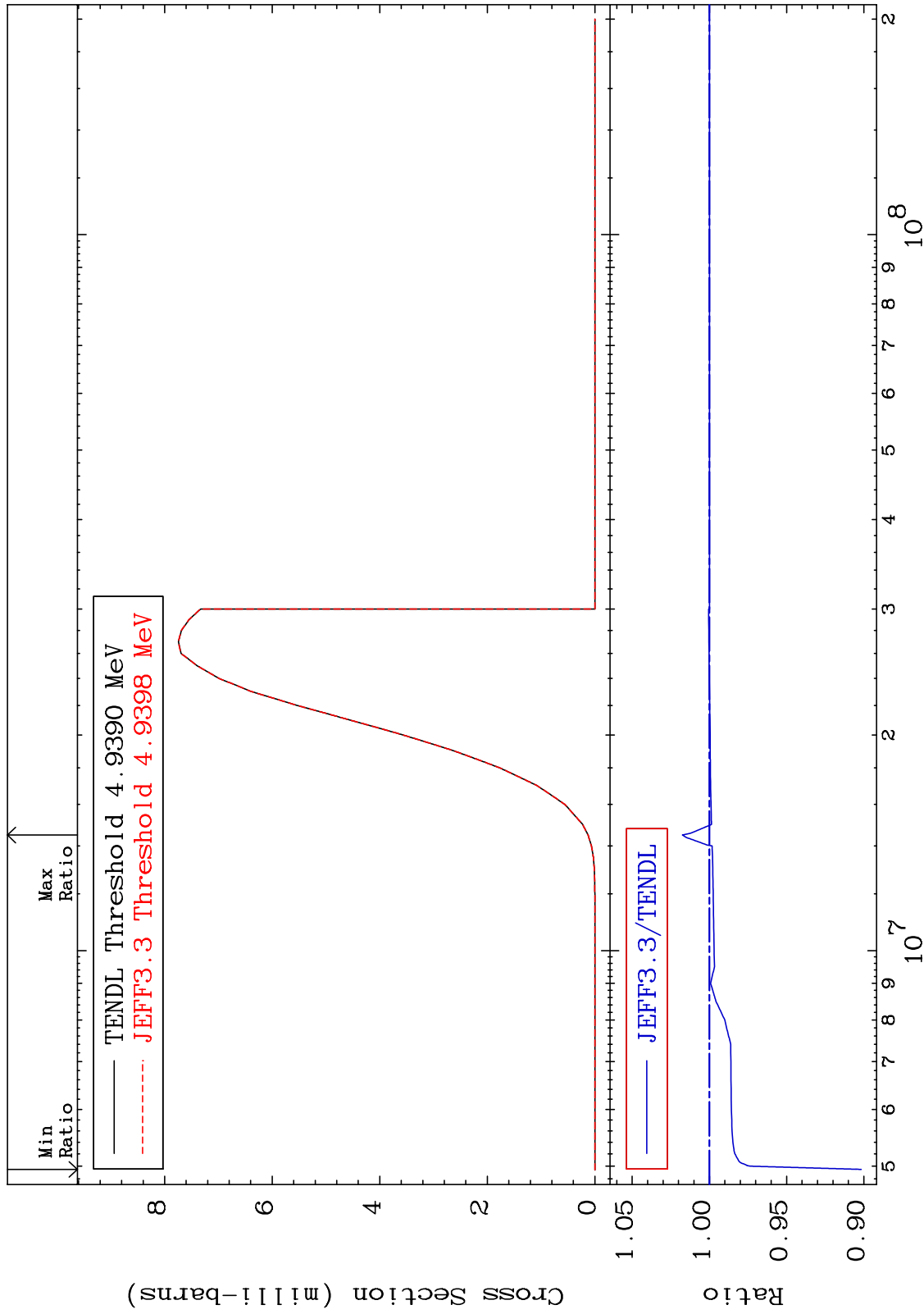
MAT 7034

(n, t)

70-Yb-171

Cross Section

-9.836 To 1.745 %



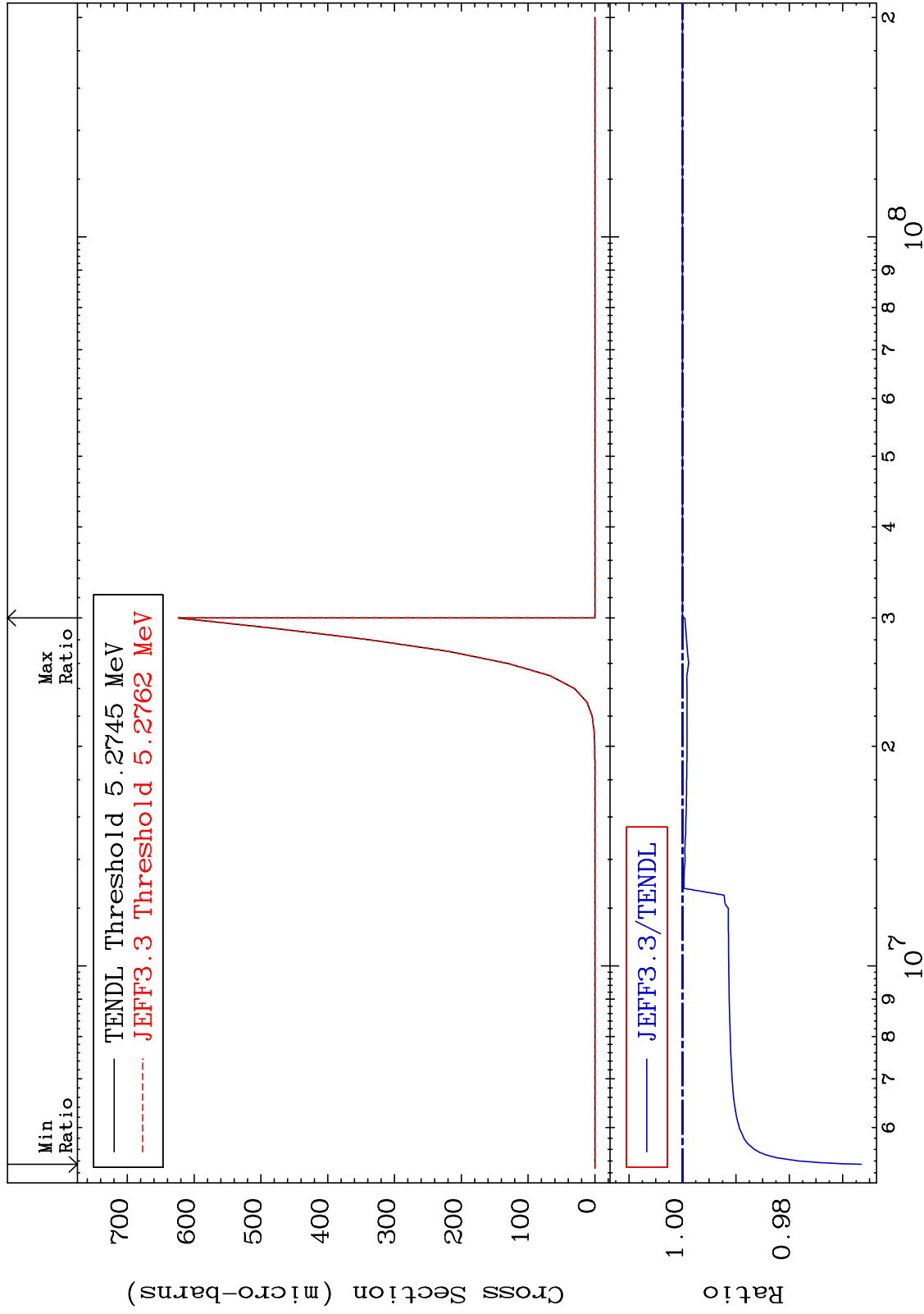
MAT 7034

(n, He-3)

70-Yb-171

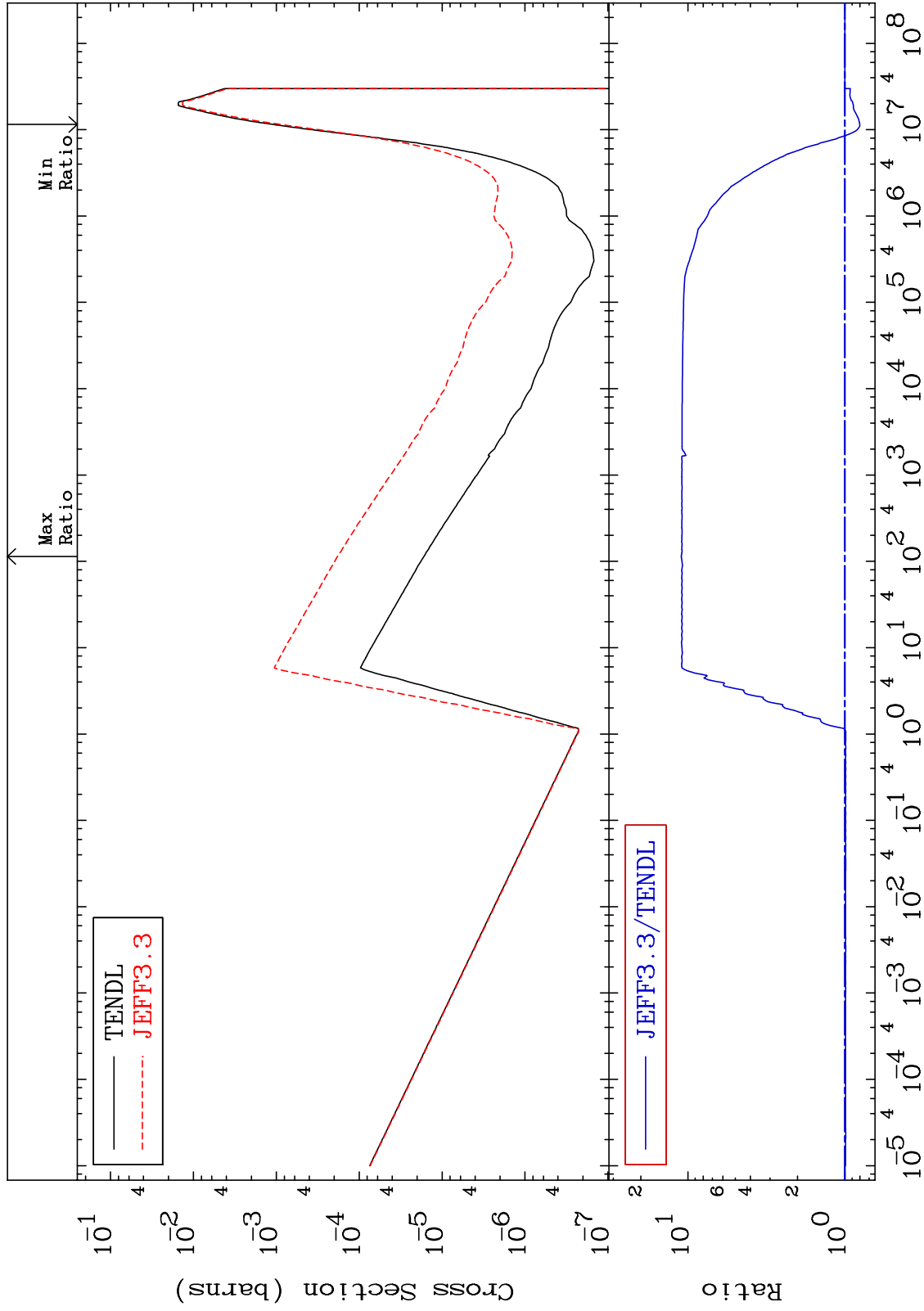
-3.347 To 0.000 %

Cross Section



MAT 7034

(n, α) Cross Section
70-Yb-171
-19.73 To 1004. %



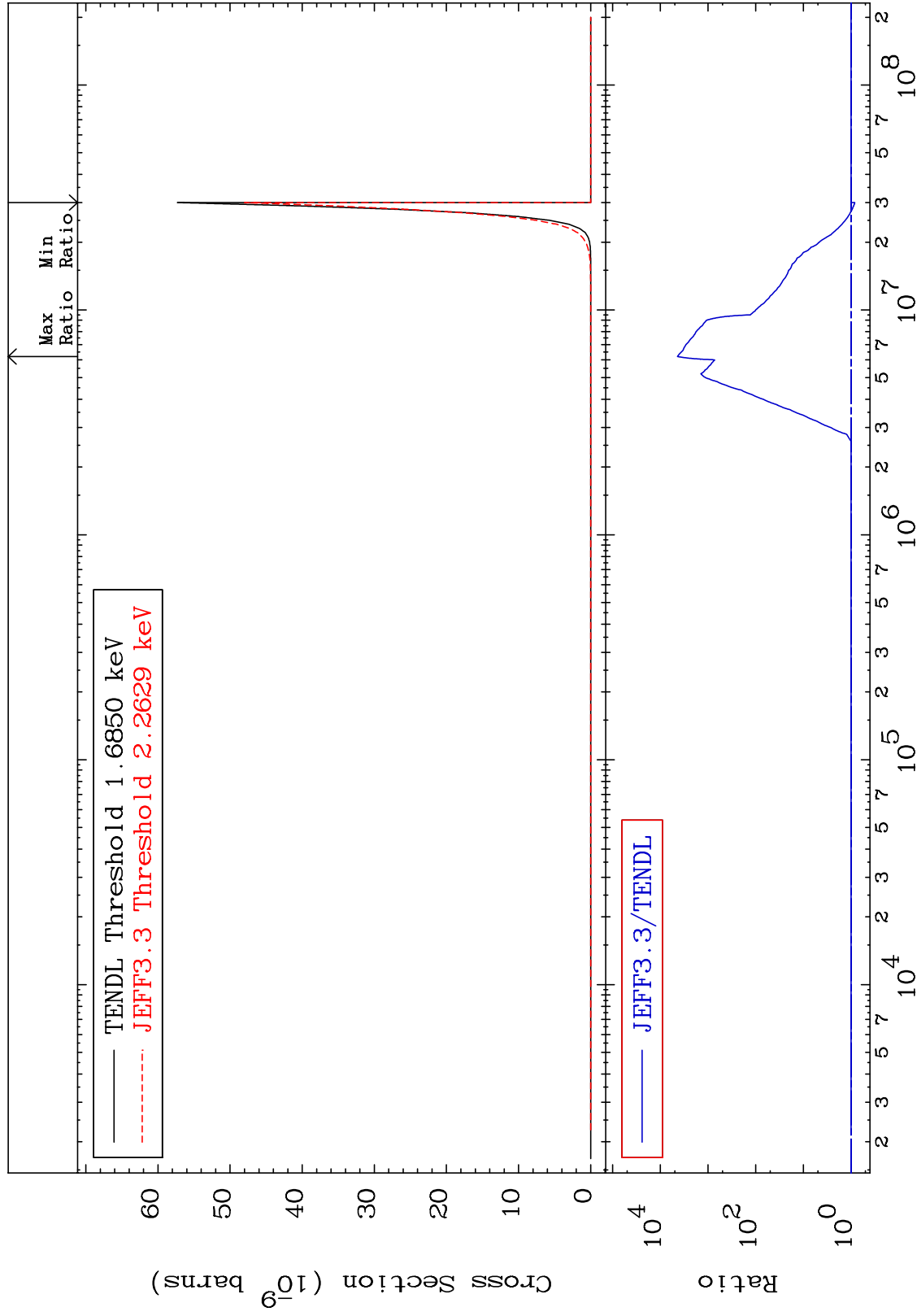
MAT 7034

(n,2α)

70-Yb-171

Cross Section

-16.27 To 9999. %



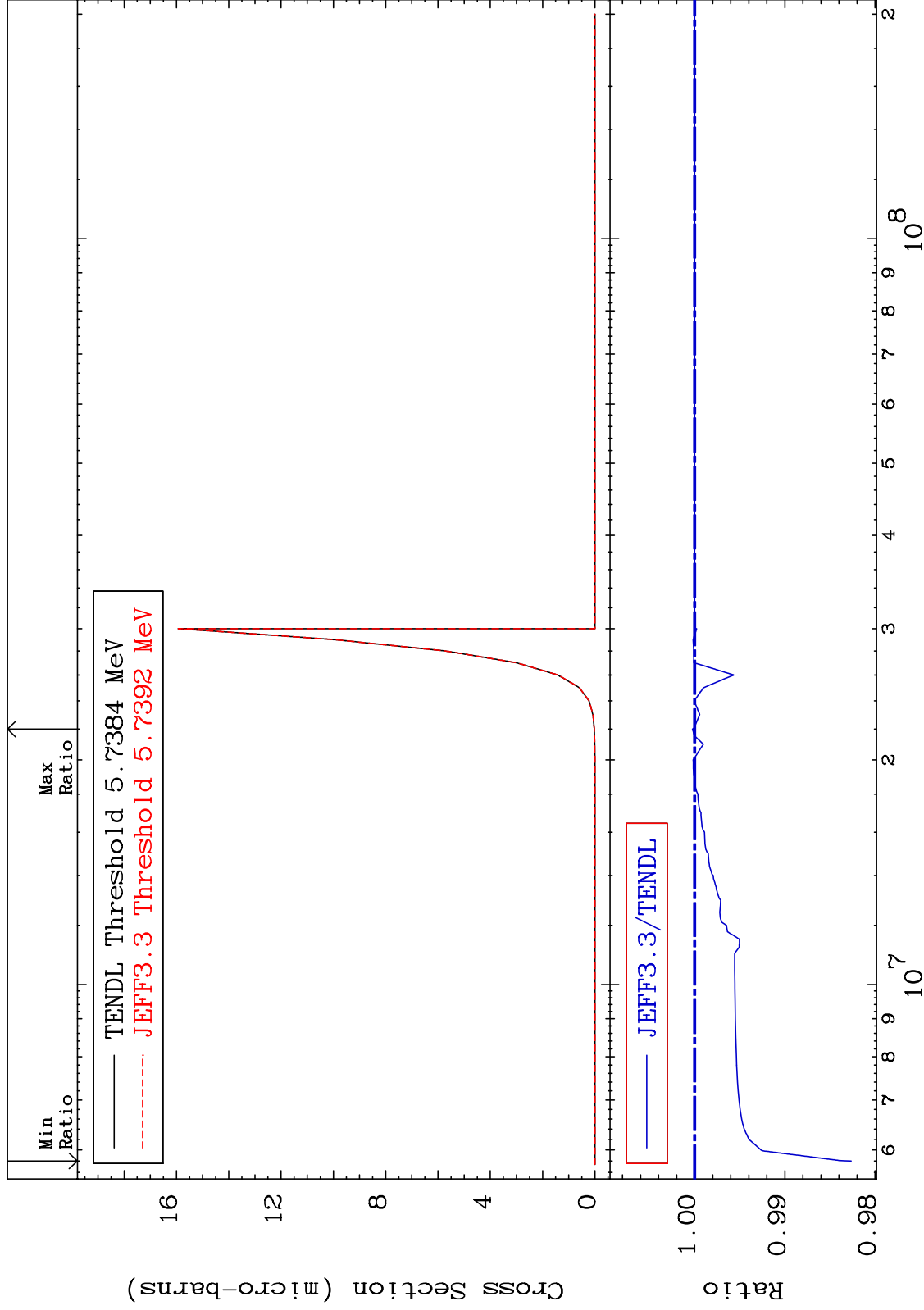
MAT 7034

(n,2p)

70-Yb-171

-1.736 To 0.025 %

Cross Section



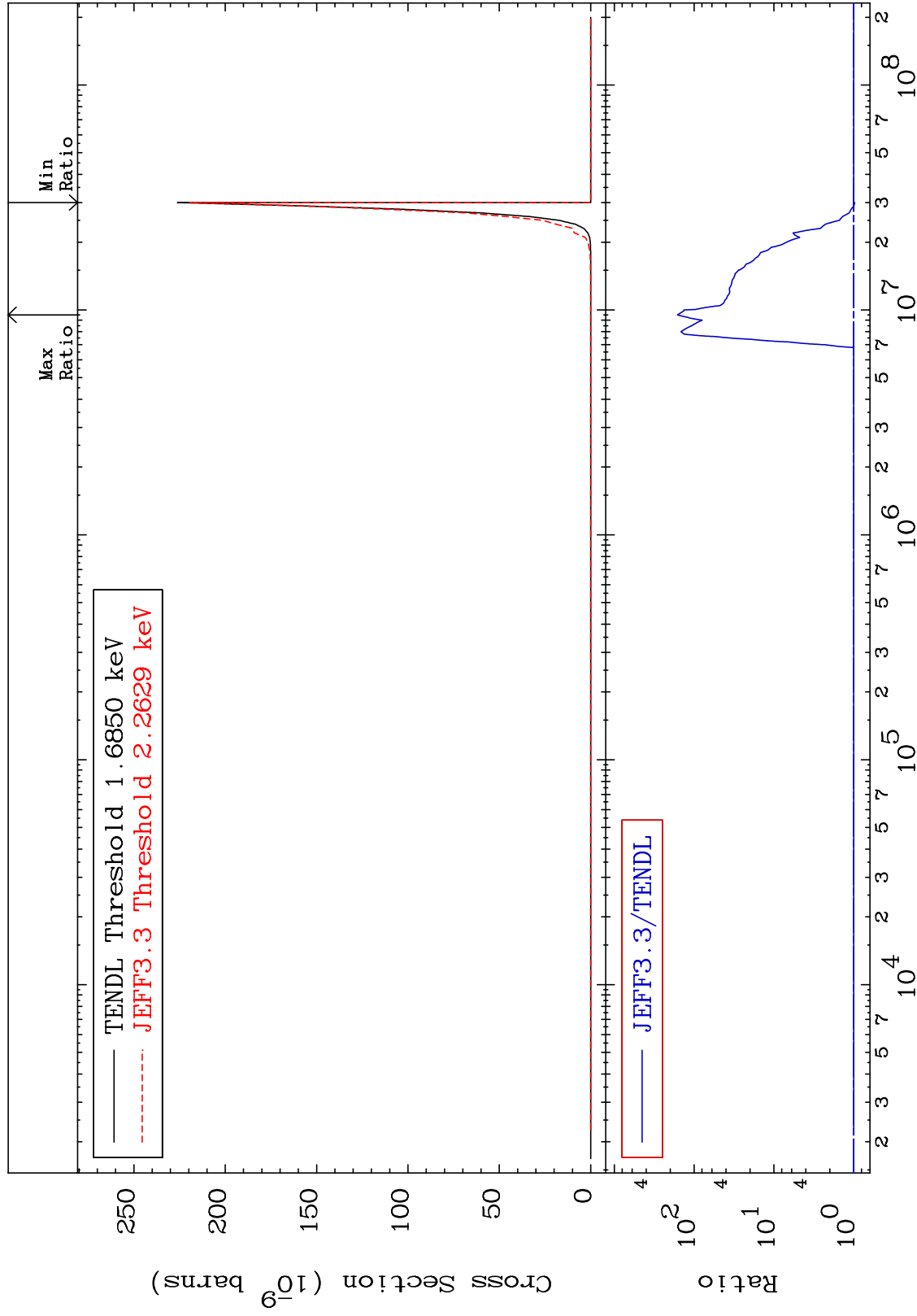
MAT 7034

(n,p) α

Cross Section

70-Yb-171

-3.040 To 9999. %



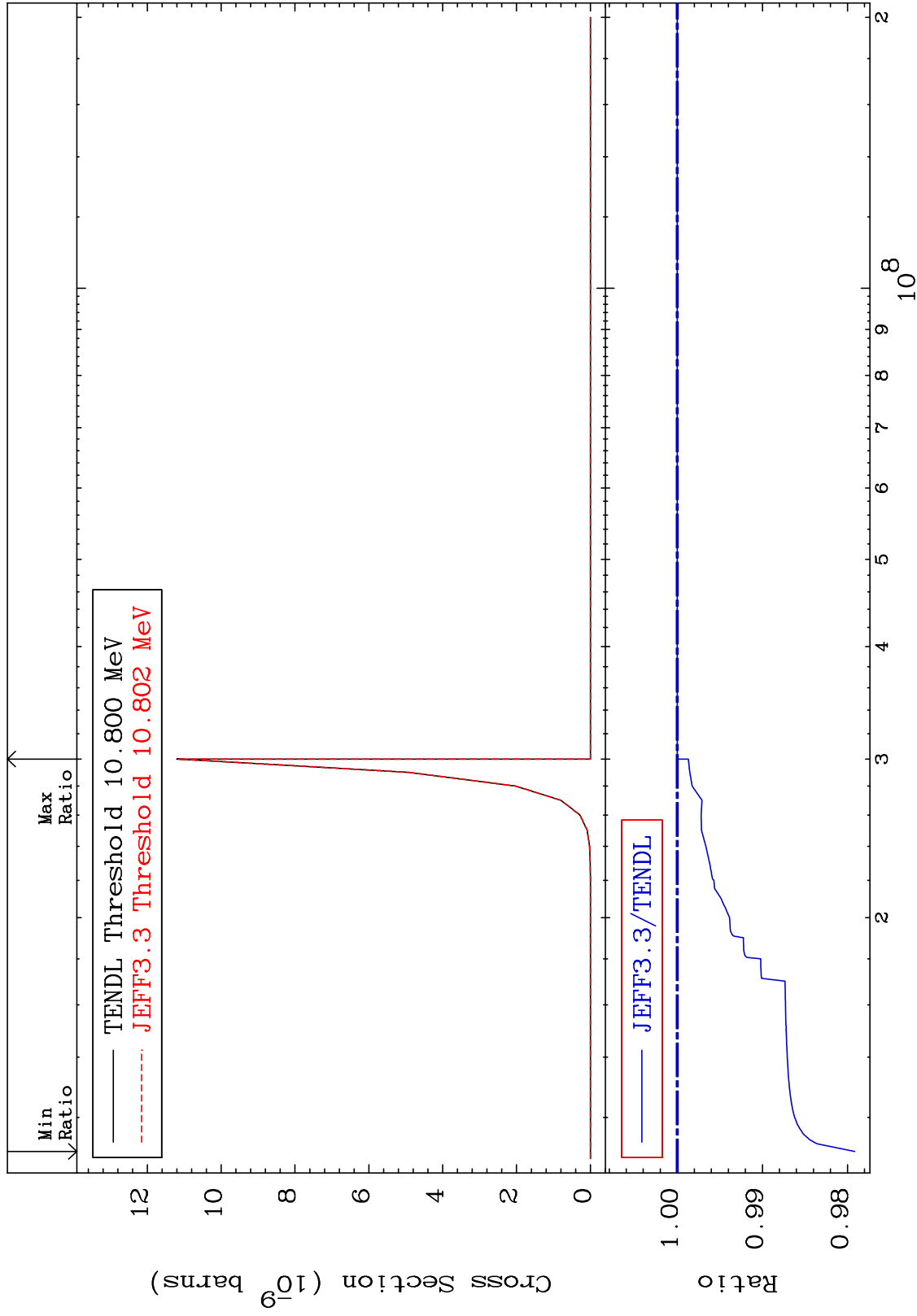
MAT 7034

(n,p) d

⁷⁰Yb-171

Cross Section

-2.085 To 0.000 %

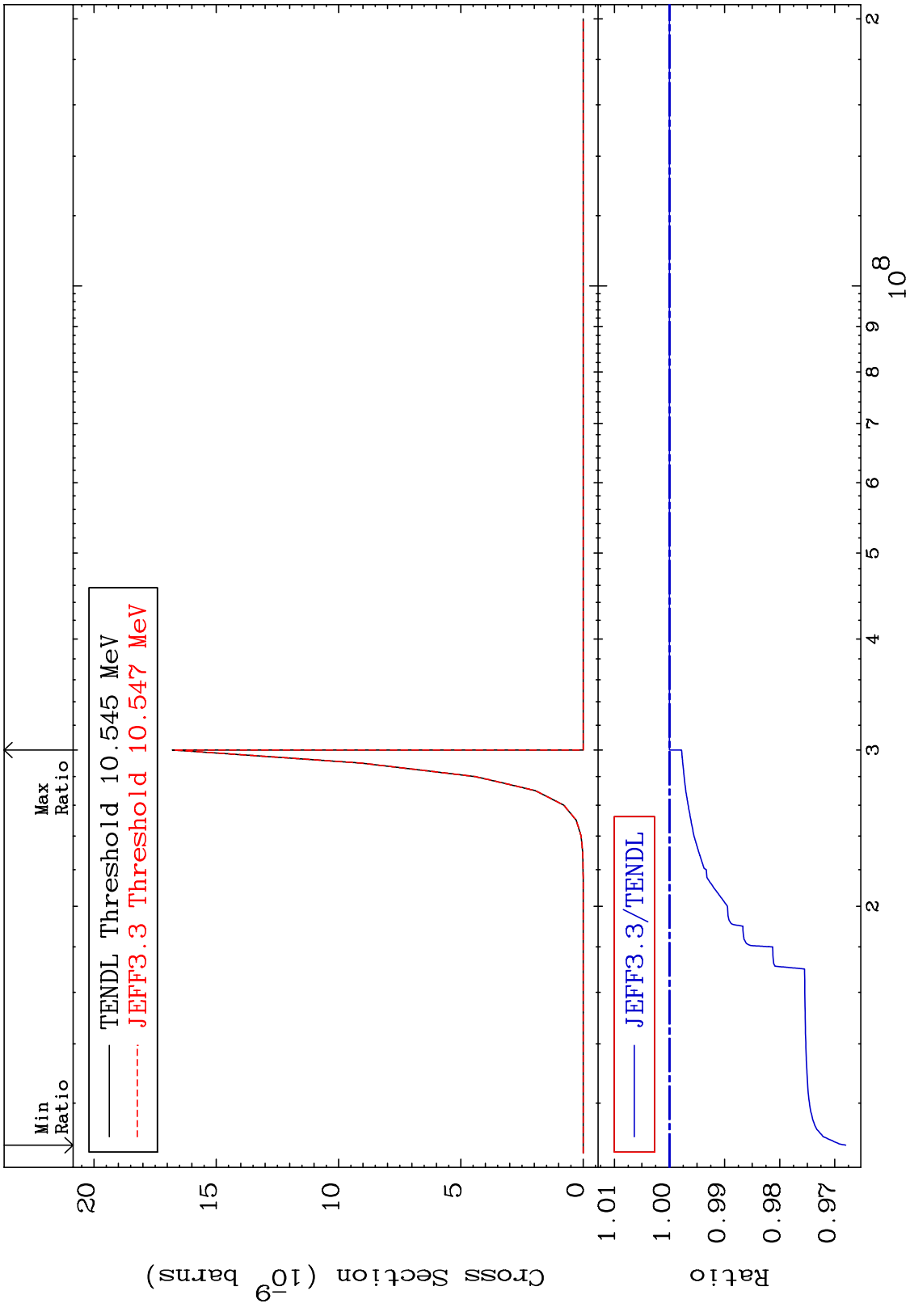


60

Incident Energy (eV)

⁷⁰Yb-171

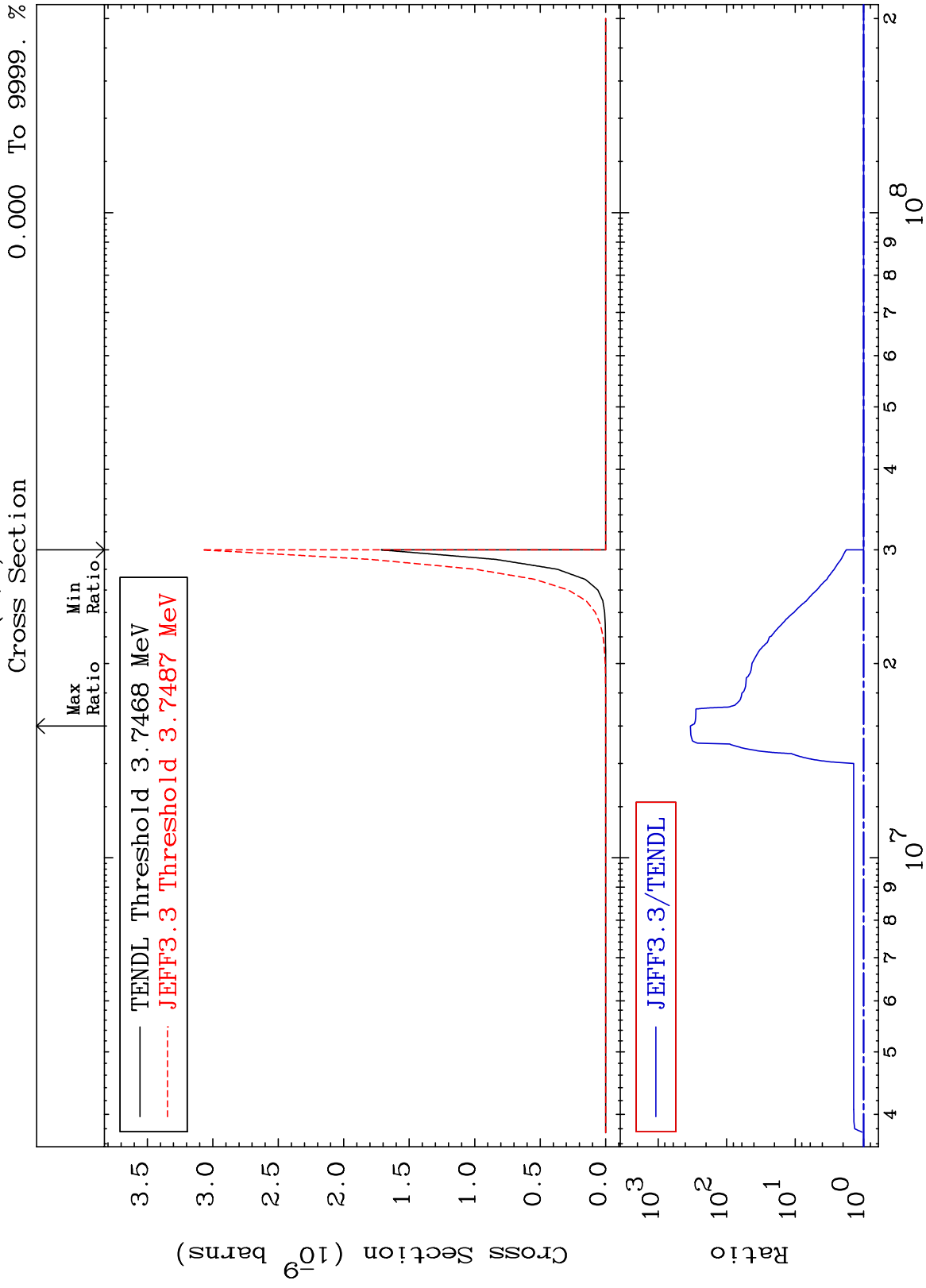
MAT 7034 (n,p) t 70-Yb-171
 Cross Section -3.199 To 0.000 %



MAT 7034

(n,d) α

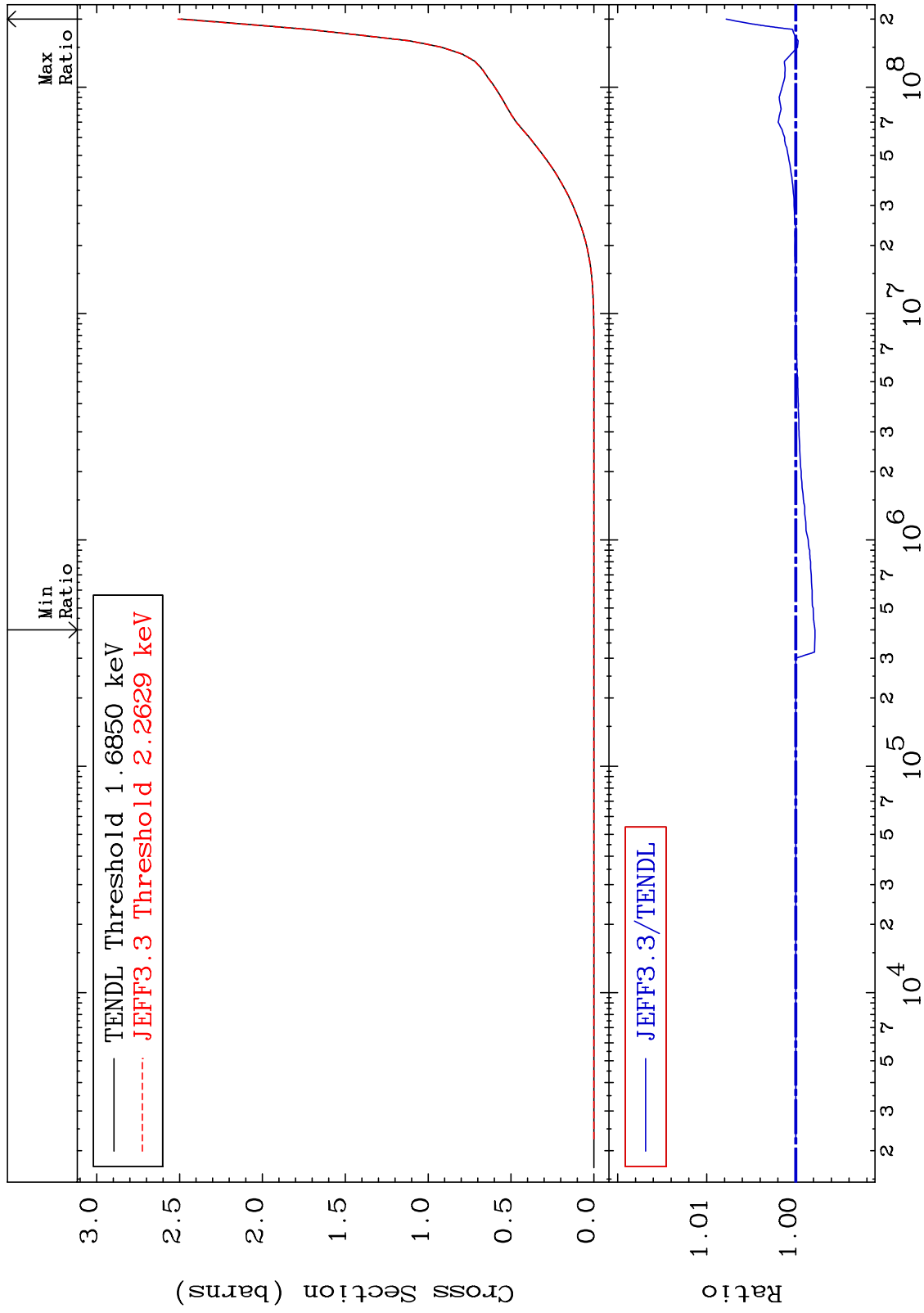
70-Yb-171
To 9999. %
0.000



MAT 7034

Hydrogen Production
Cross Section

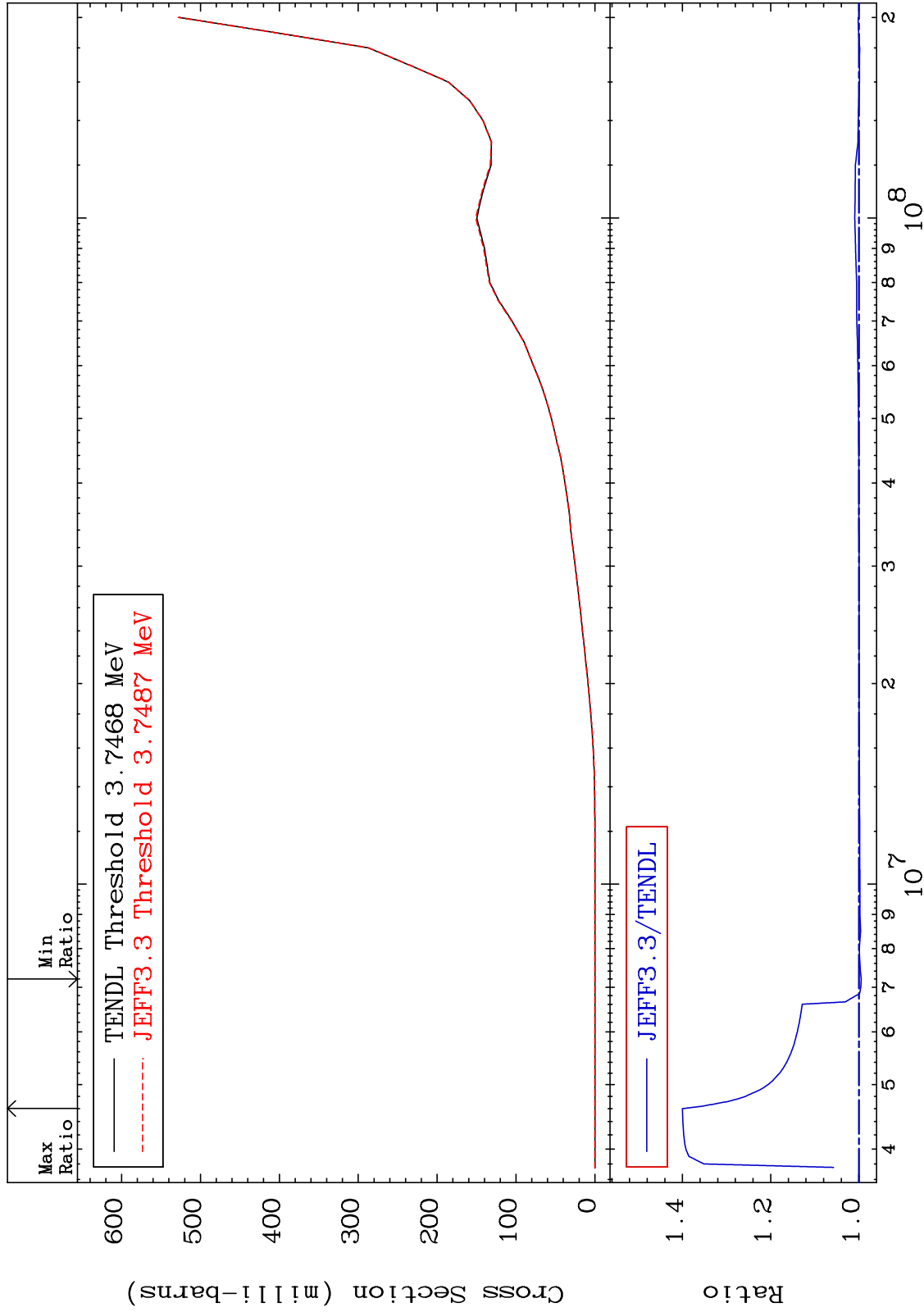
70-Yb-171
-0.216 To 0.782 %



MAT 7034

Deuterium Production Cross Section

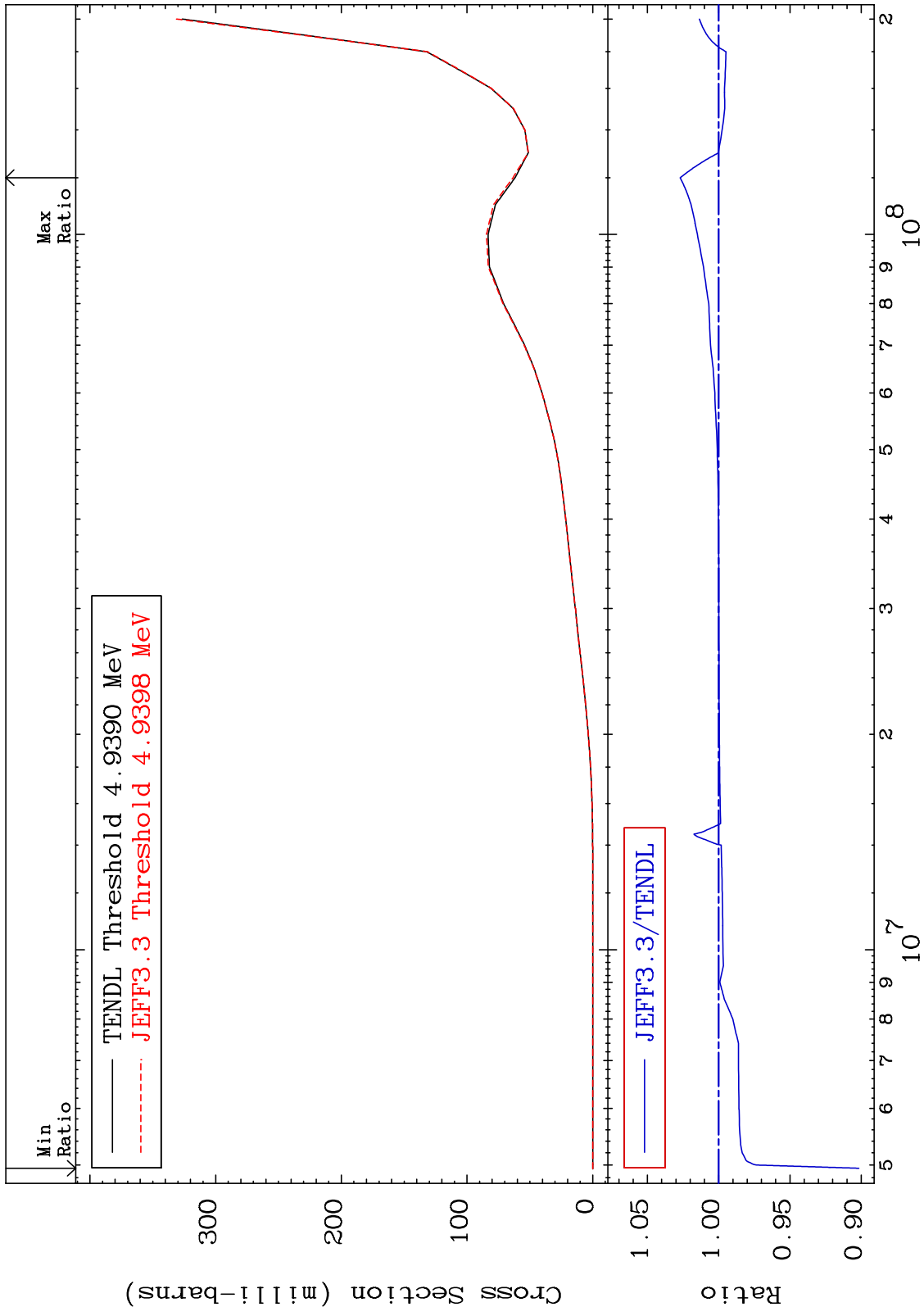
70-Yb-171
-0.534 To 40.00 %



MAT 7034

Tritium Production
Cross Section

70-Yb-171
-9.836 To 2.698 %

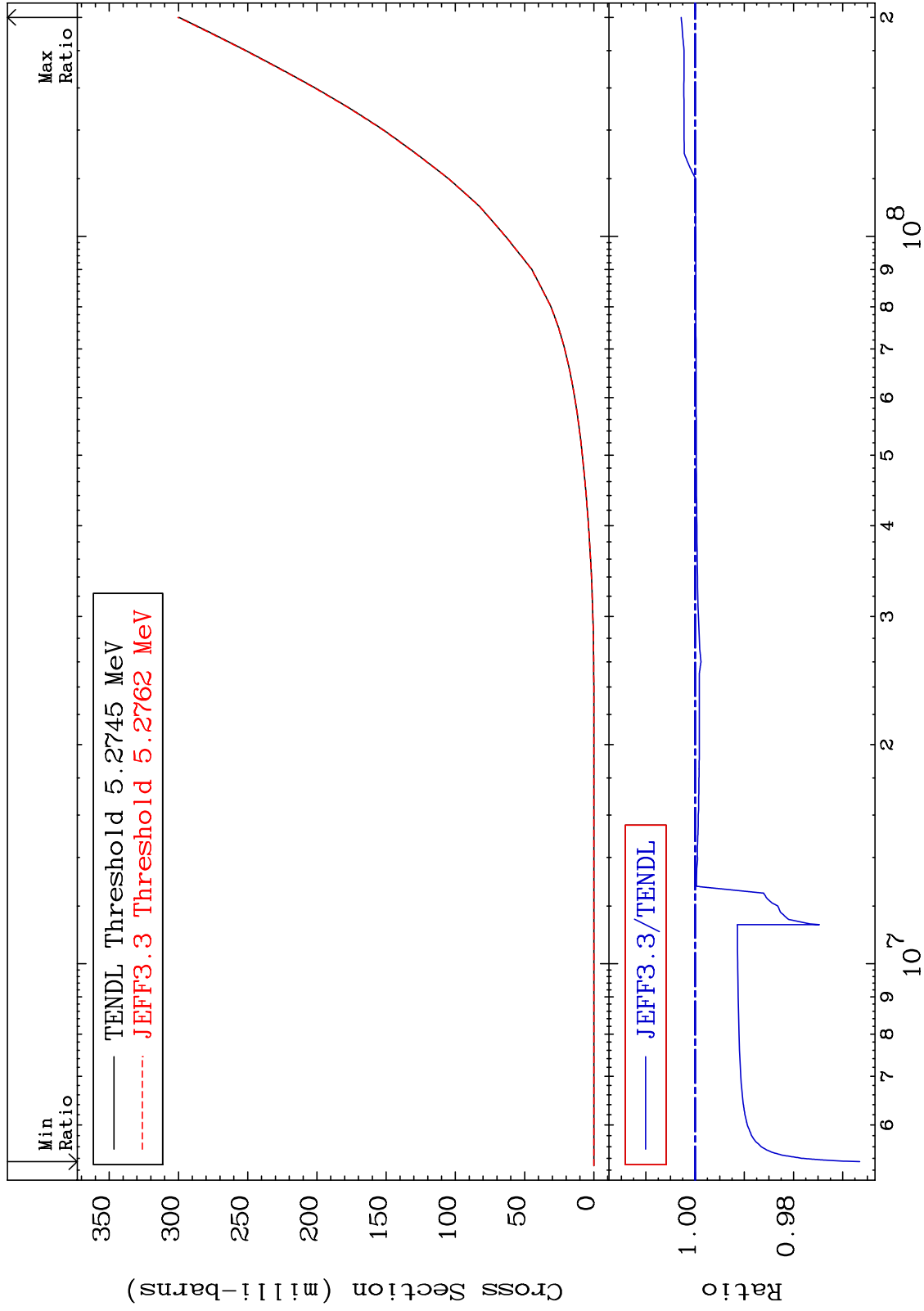


65

MAT 7034

He-3 Production
Cross Section

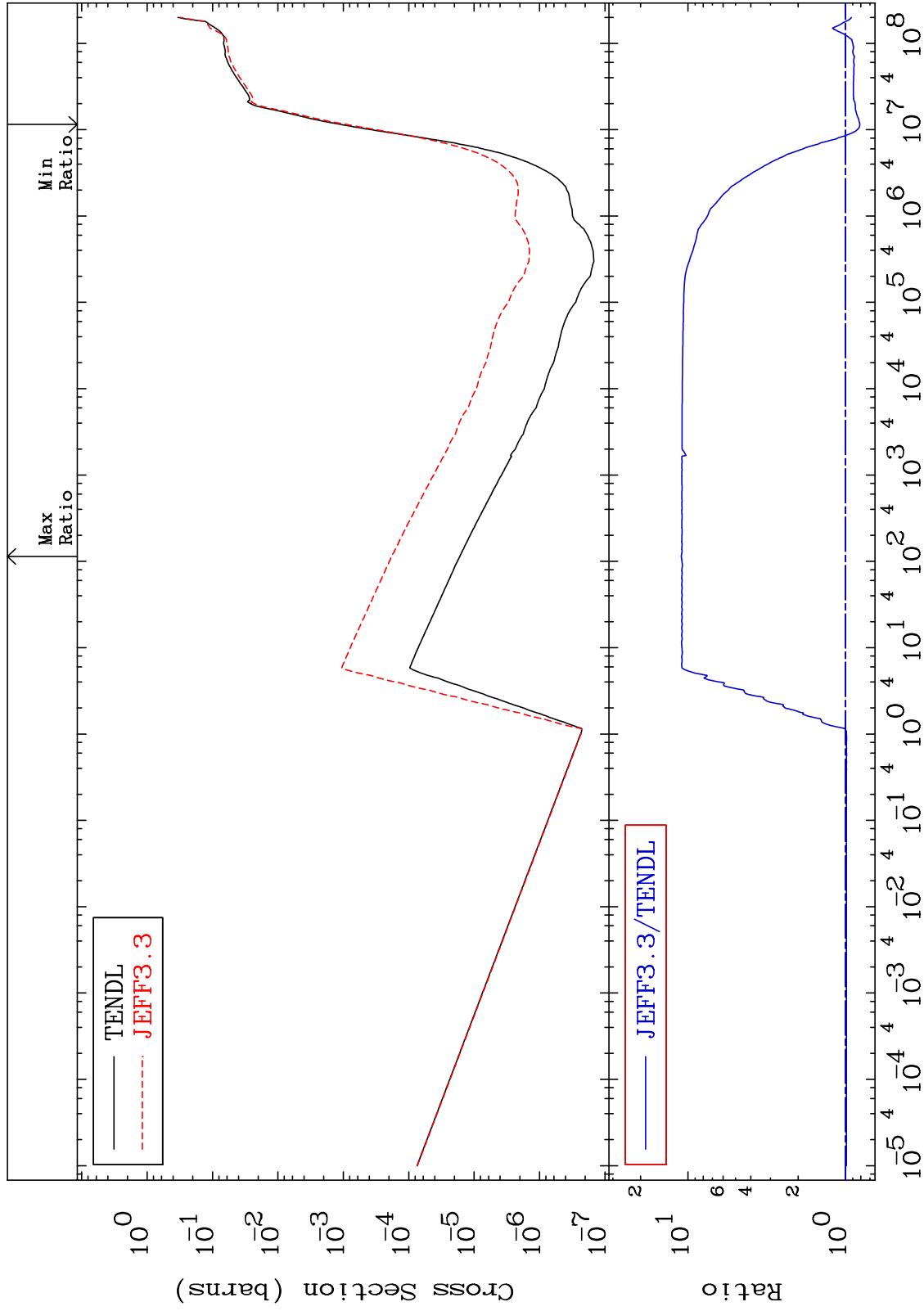
70-Yb-171
-3.347 To 0.282 %



MAT 7034

He-4 Production
Cross Section

70-Yb-171
-18.68 To 1004. %

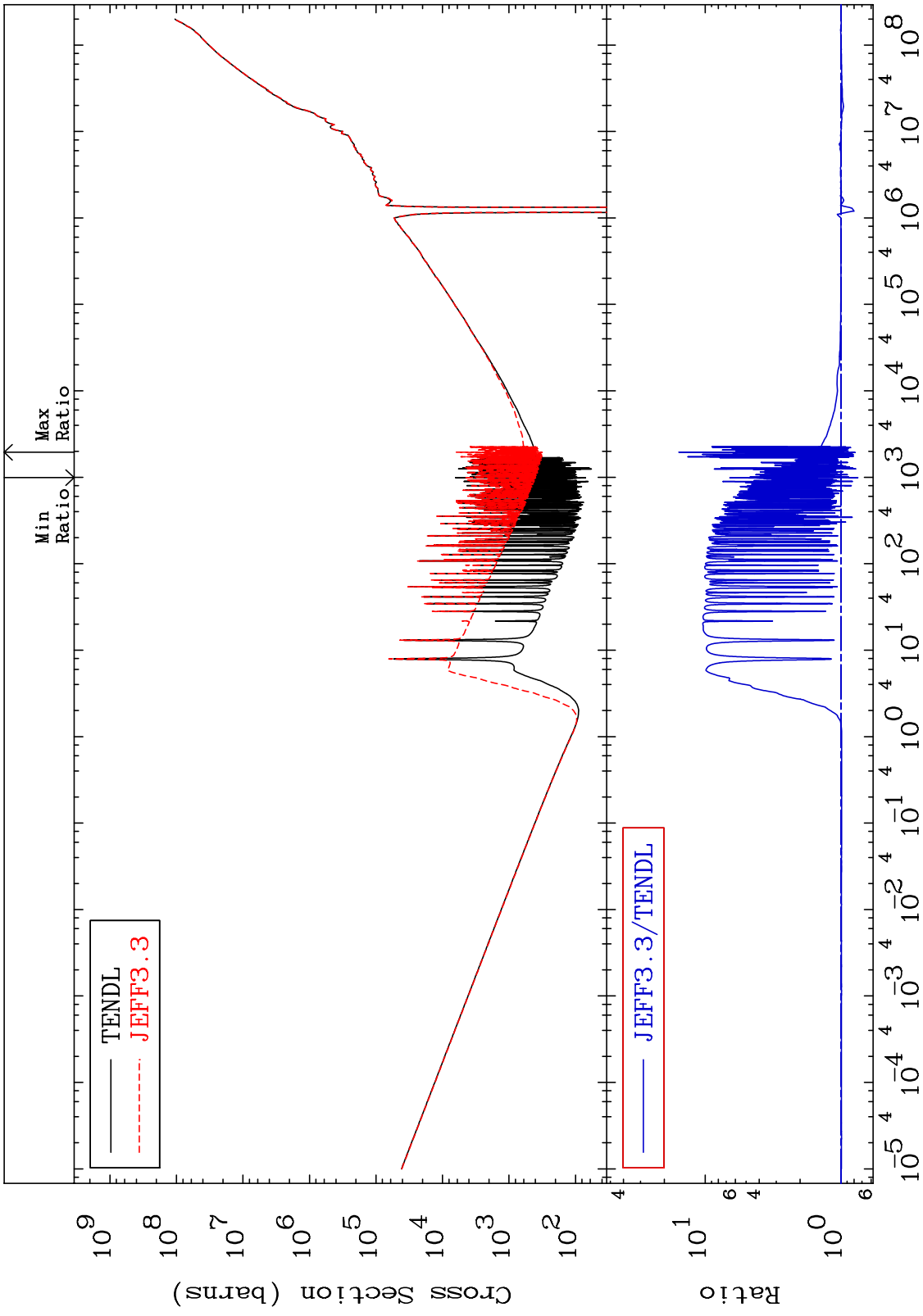


67

Incident Energy (eV)

70-Yb-171

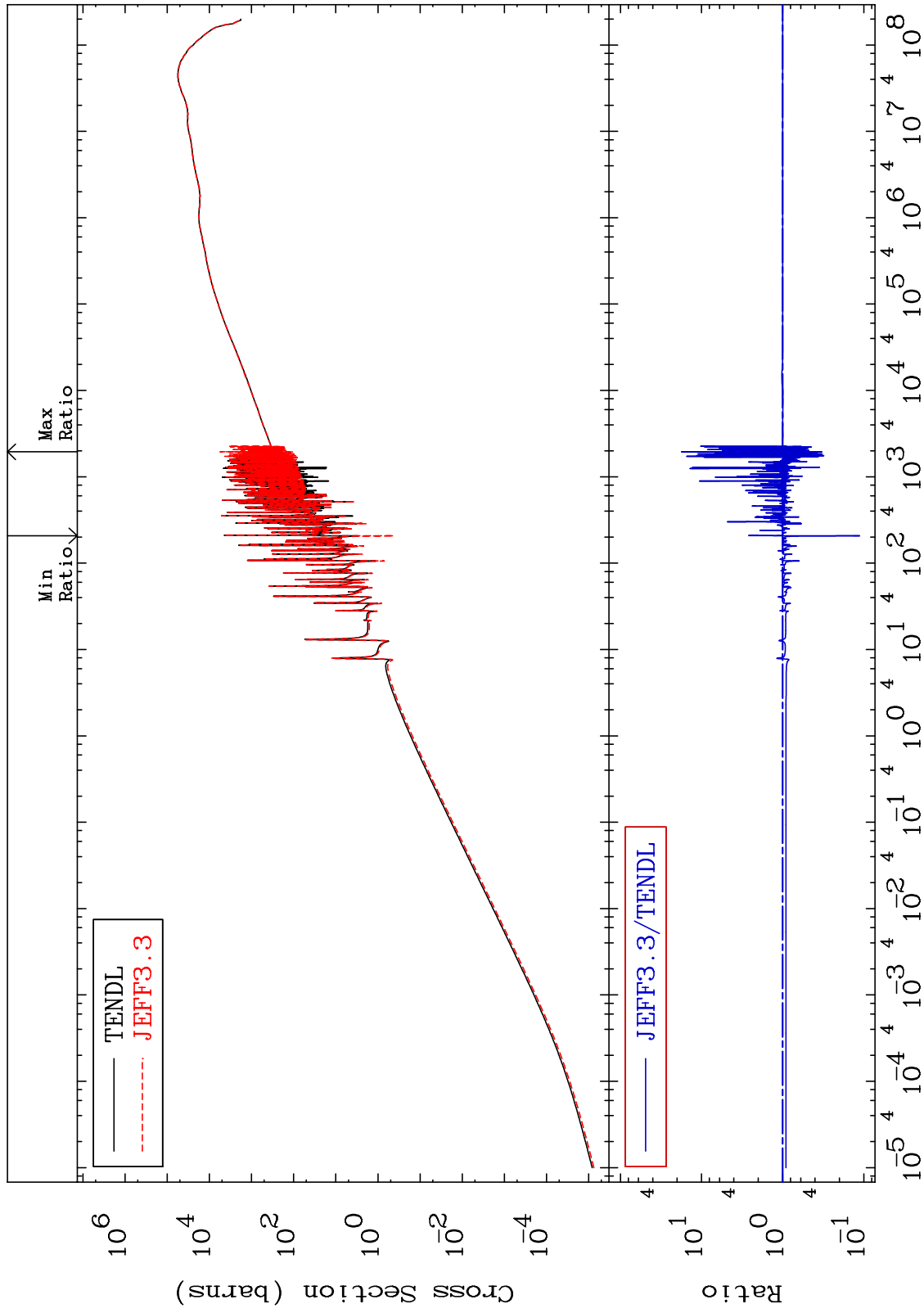
MAT 7034 Kerma total (eV-barns) 70-Yb-171
 Cross Section -24.90 To 1460. %



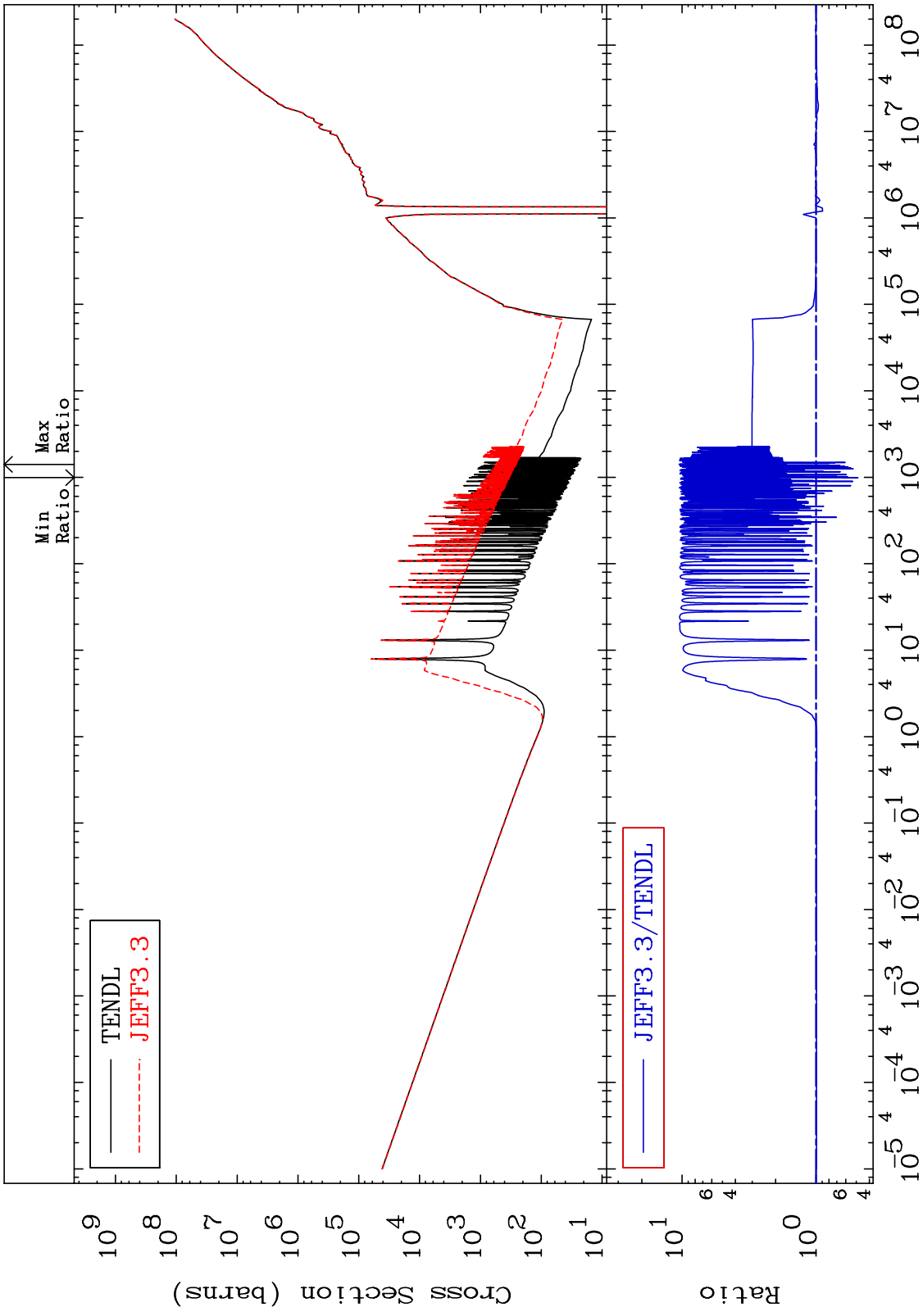
MAT 7034

Kerma elastic
Cross Section

70-Yb-171
-88.76 To 1680. %



MAT 7034 Kerma non-elastic (all but mt2) 70-Yb-171
Cross Section -51.31 To 954.4 %

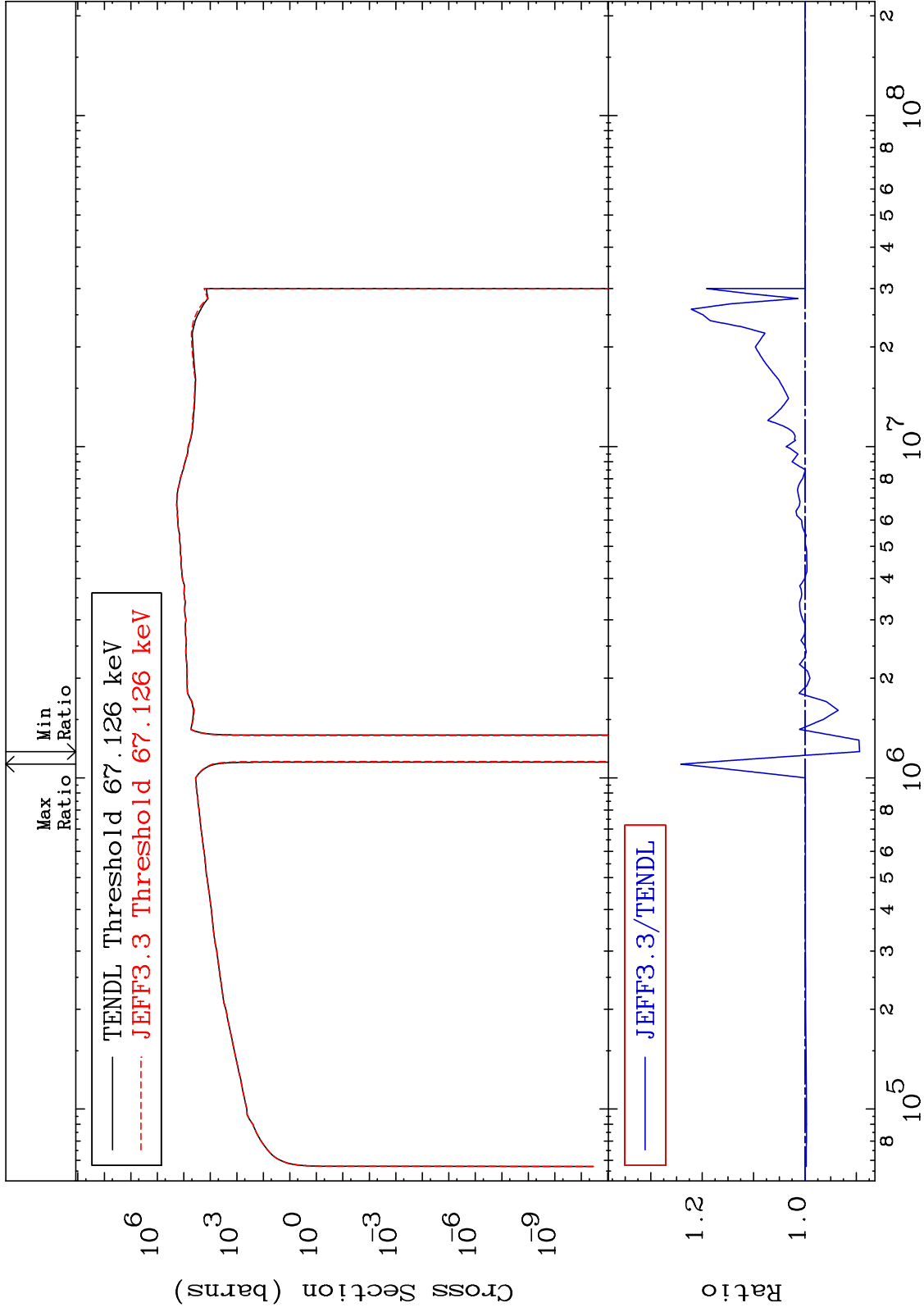


70 Incident Energy (eV) 70-Yb-171

MAT 7034

Kerma inelastic (mt51-91)
Cross Section

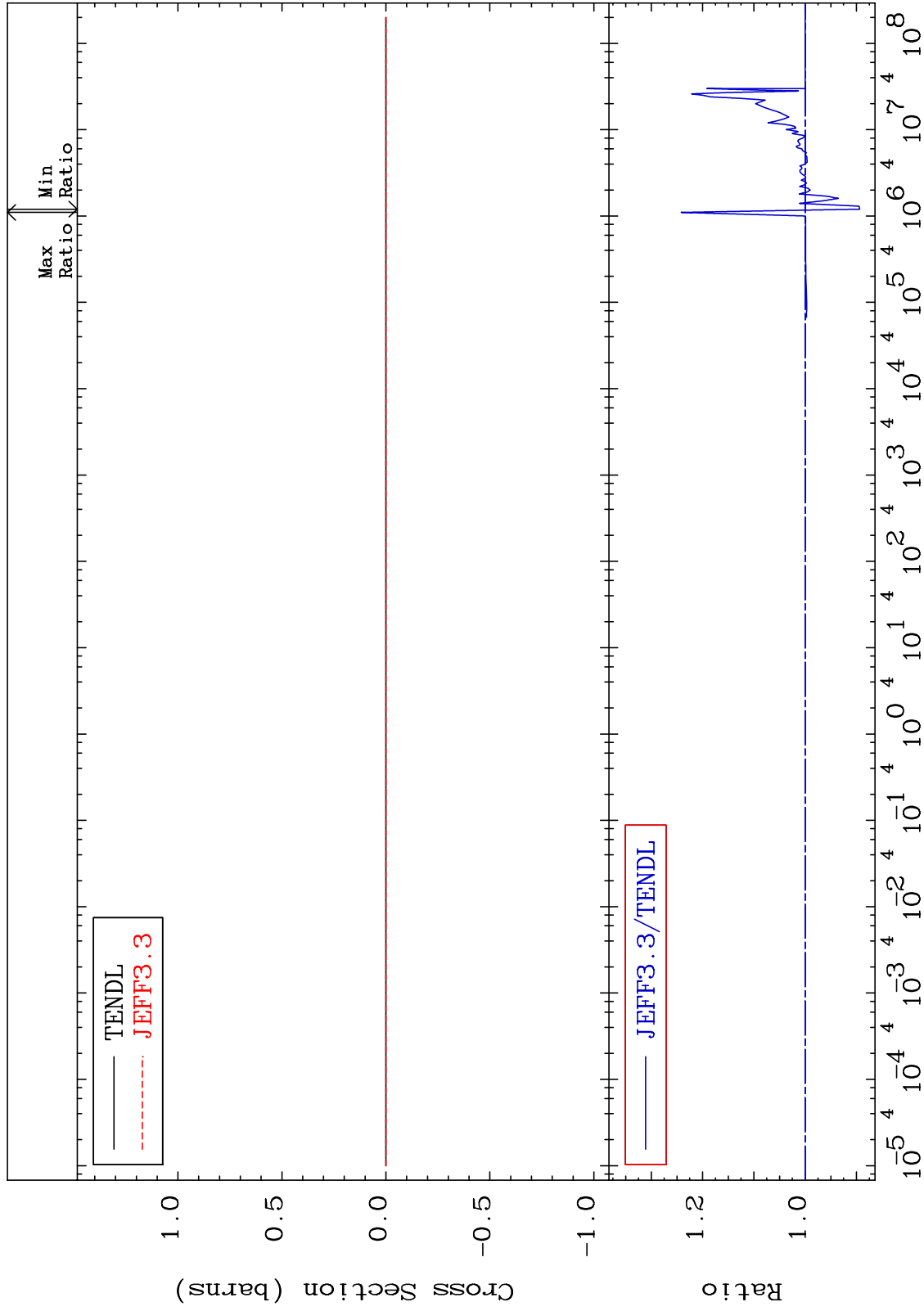
70-Yb-171
-10.64 To 24.16 %



MAT 7034

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

70-Yb-171
-10.64 To 24.16 %



72

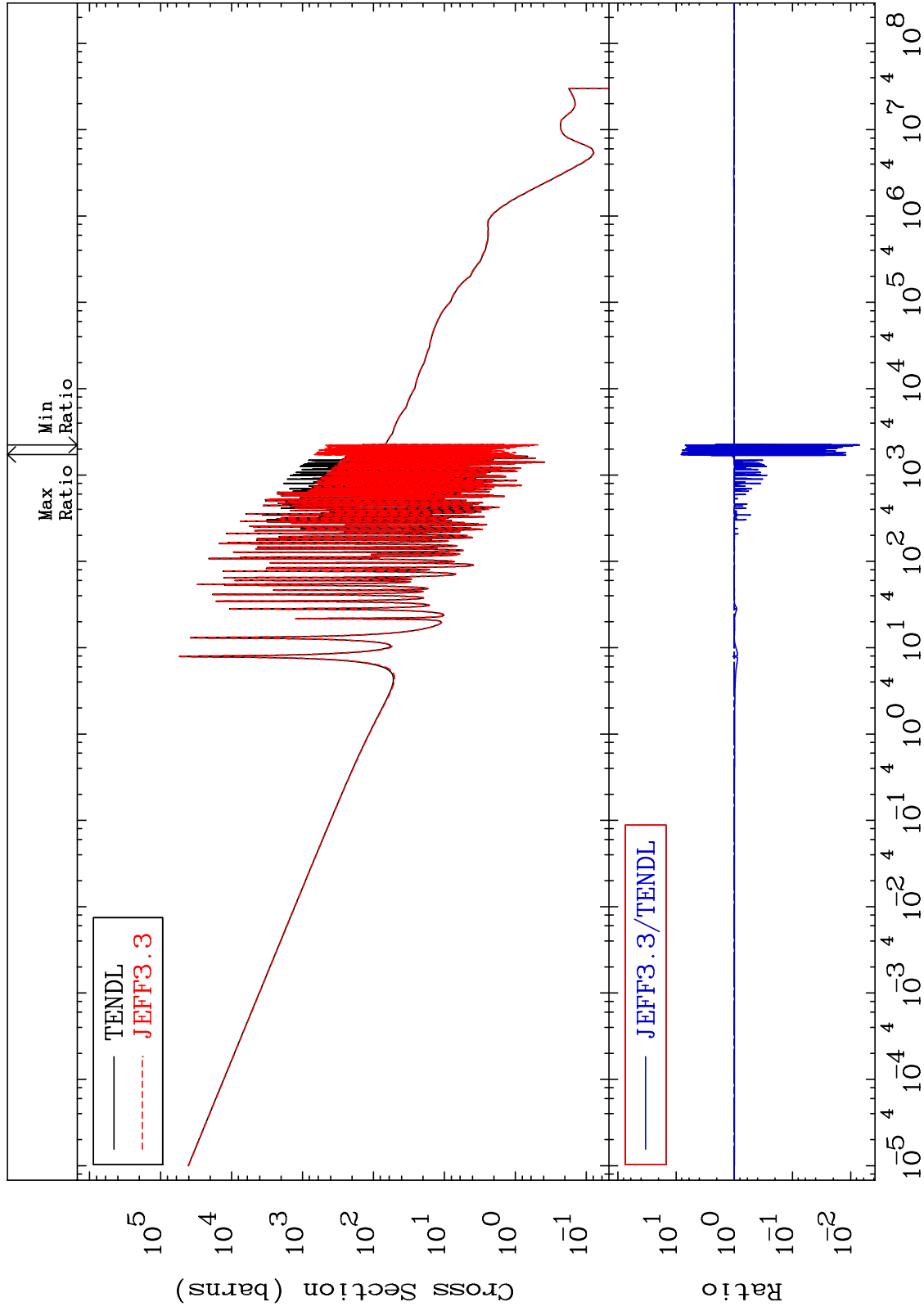
Incident Energy (eV)

70-Yb-171

MAT 7034

Kerma capture (mt102)
Cross Section

70-Yb-171
-99.30 To 715.0 %



73

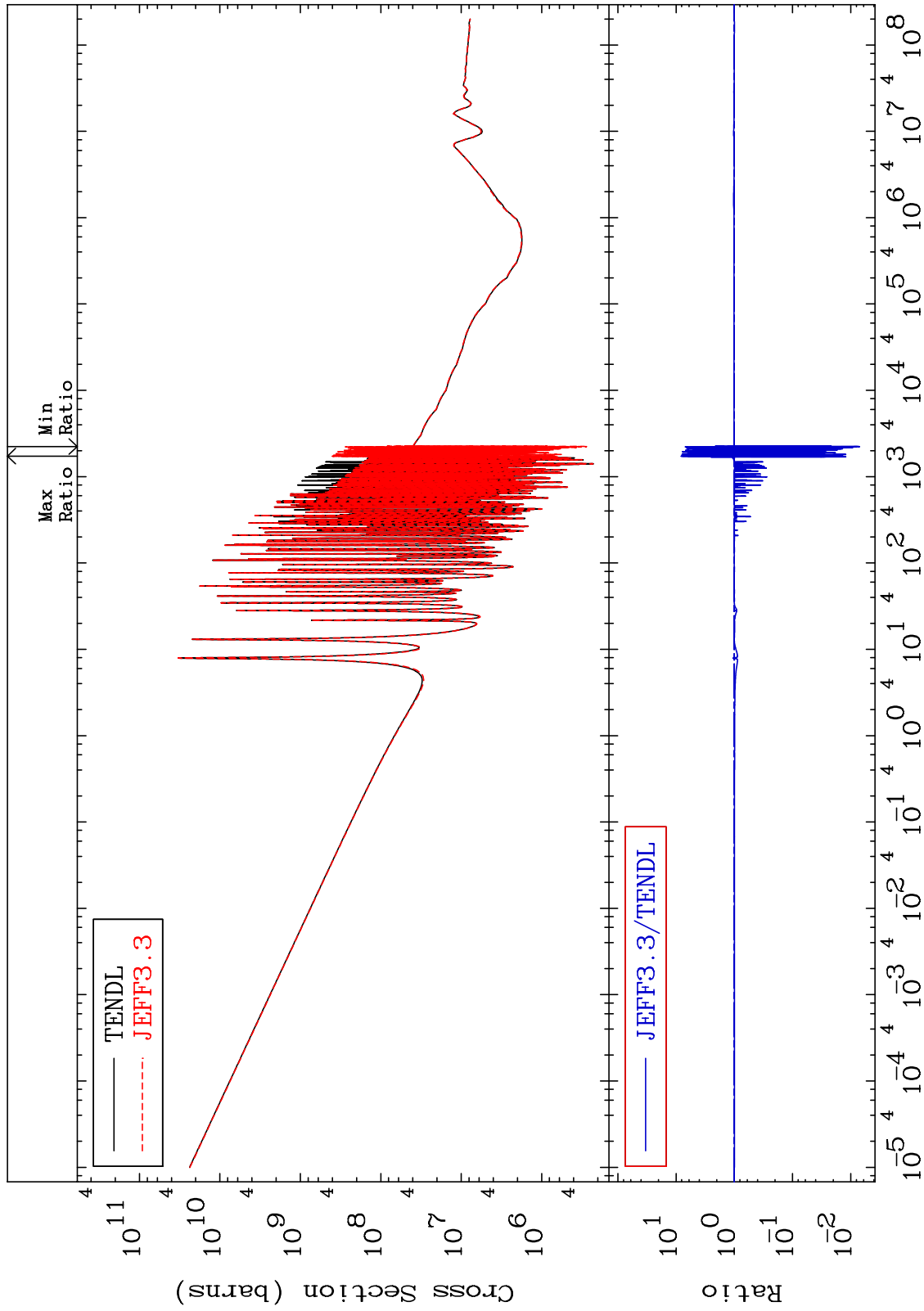
Incident Energy (eV)

70-Yb-171

MAT 7034

Total photon (eV-barns)
Cross Section

70-Yb-171
-99.30 To 715.0 %



74

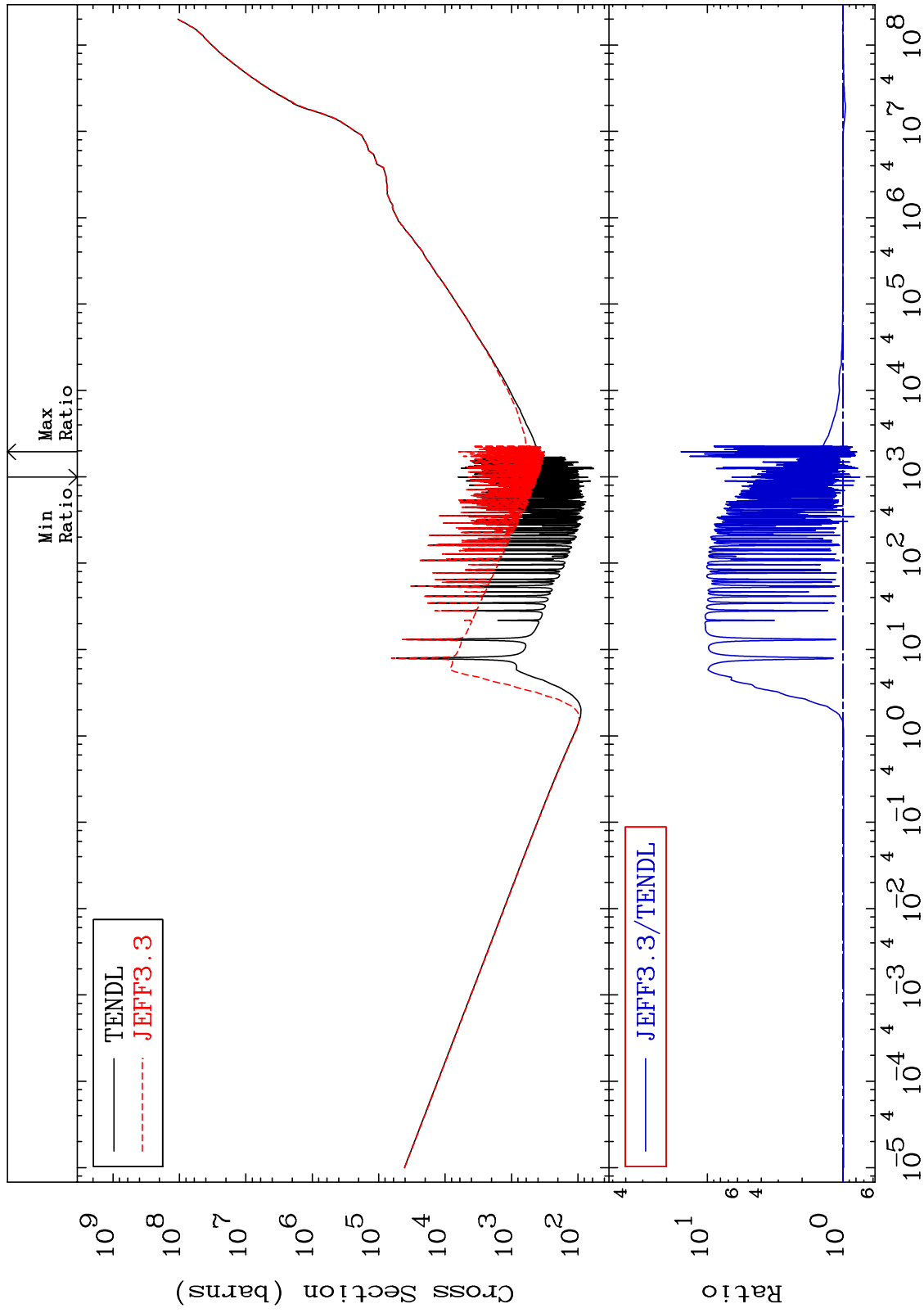
Incident Energy (eV)

70-Yb-171

MAT 7034

Total kinematic kerma (high limit)
Cross Section

70-Yb-171
-24.87 To 1460. %



75

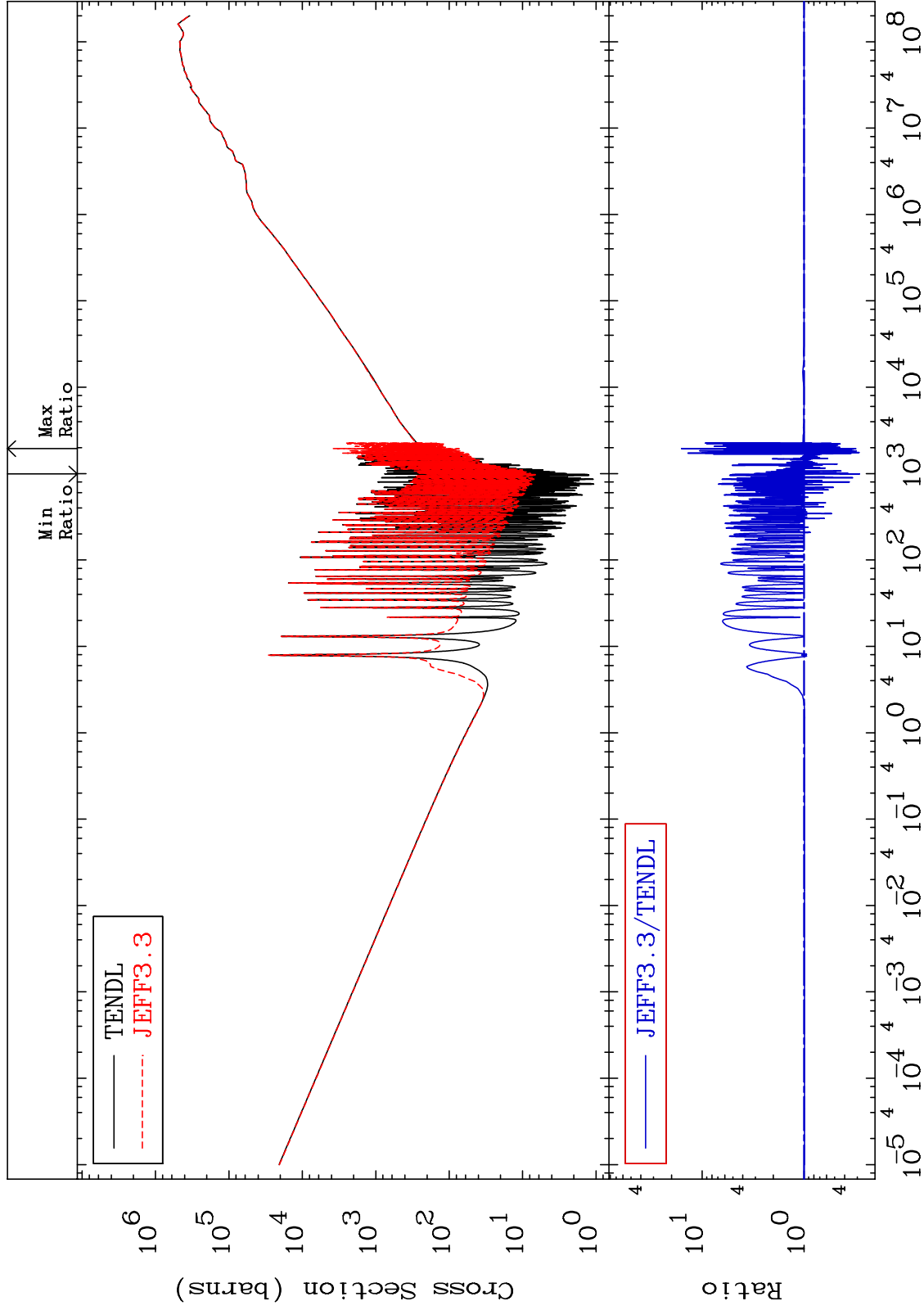
Incident Energy (eV)

70-Yb-171

MAT 7034

Dpa total (eV-barns)
Cross Section

70-Yb-171
-71.63 To 1504. %



76

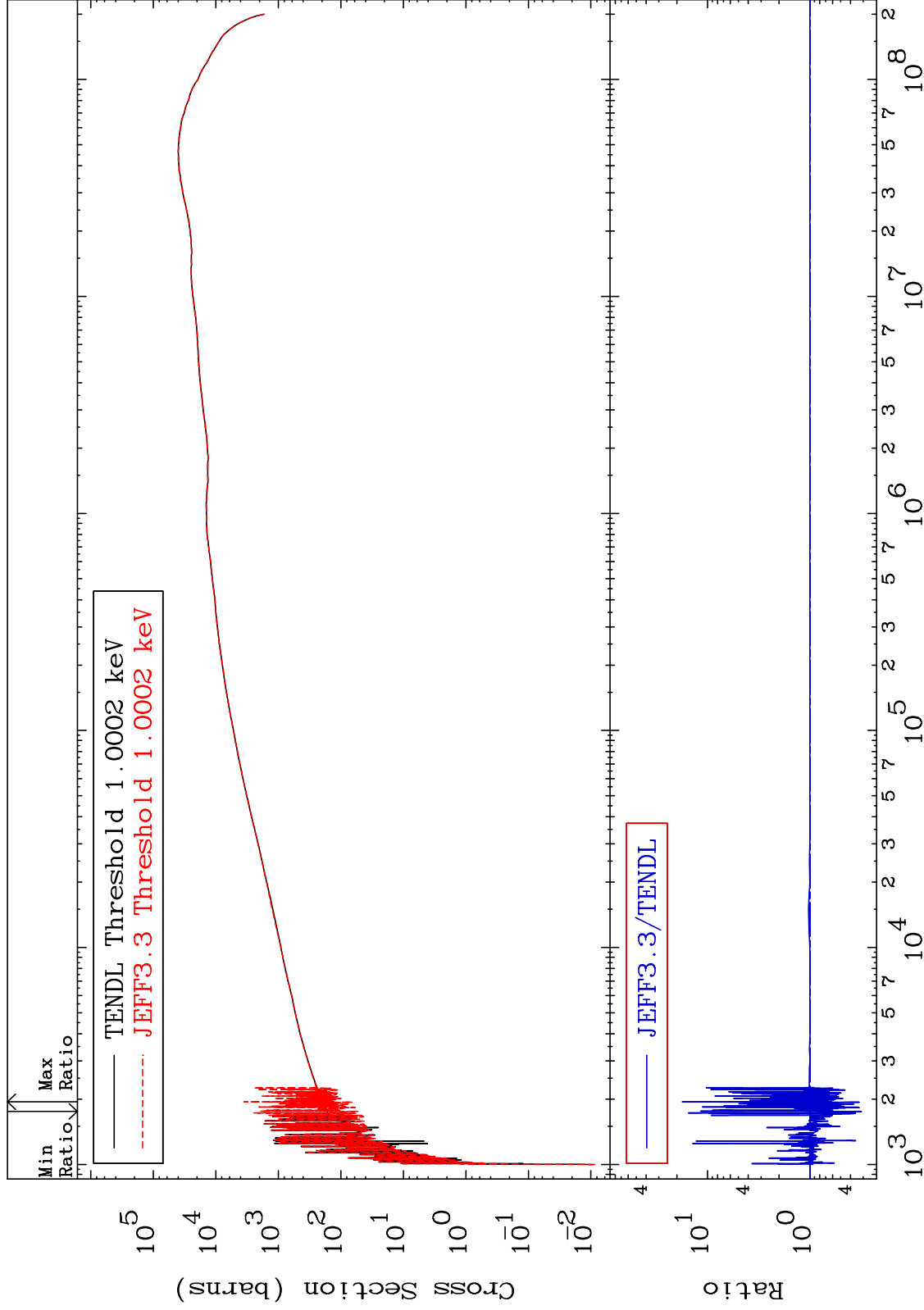
Incident Energy (eV)

70-Yb-171

MAT 7034

Dpa elastic (mt2)
Cross Section

70-Yb-171
-68.64 To 1662. %



77

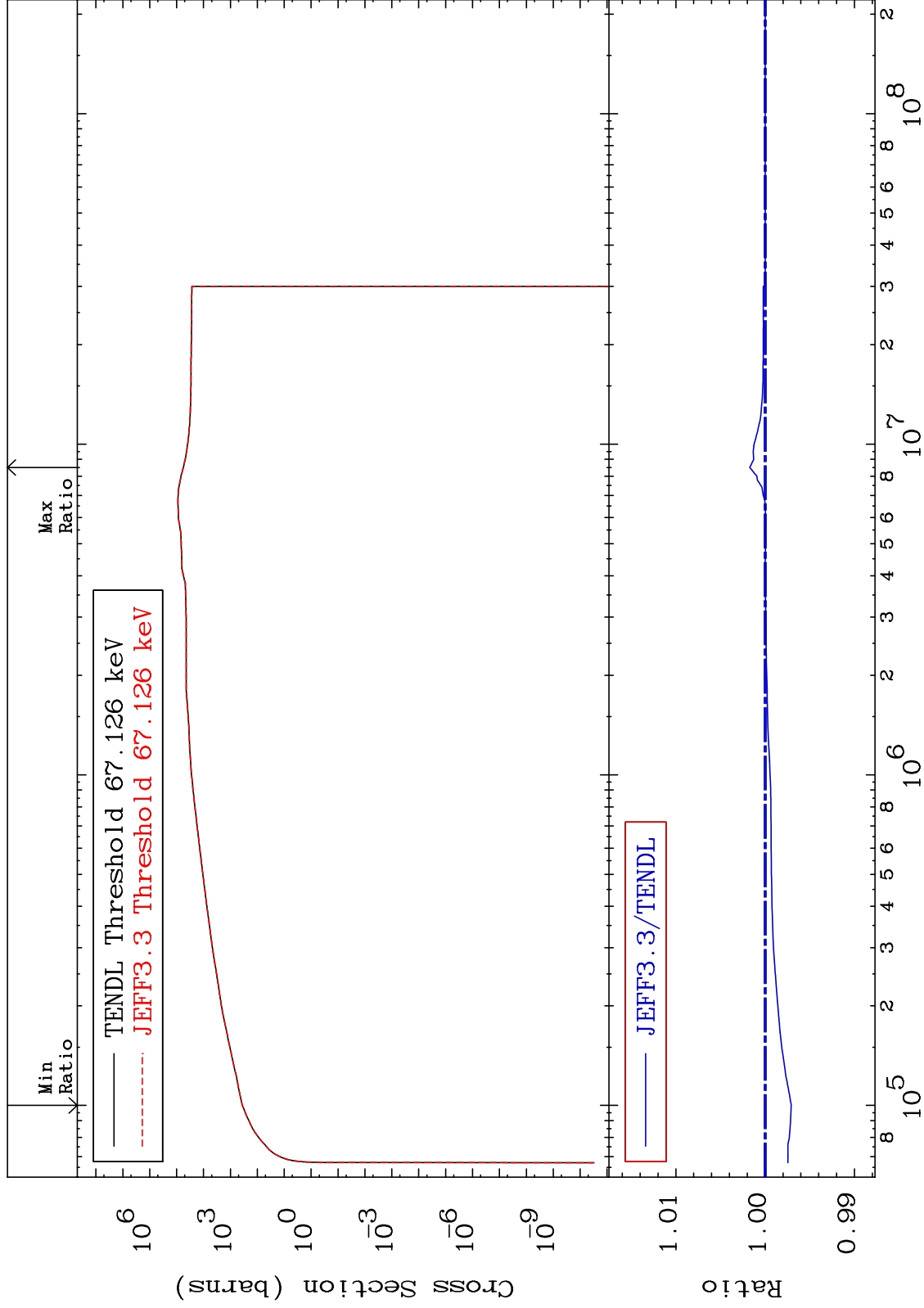
Incident Energy (eV)

70-Yb-171

MAT 7034

Dpa inelastic (mt51-91)
Cross Section

70-Yb-171
-0.292 To 0.172 %



78

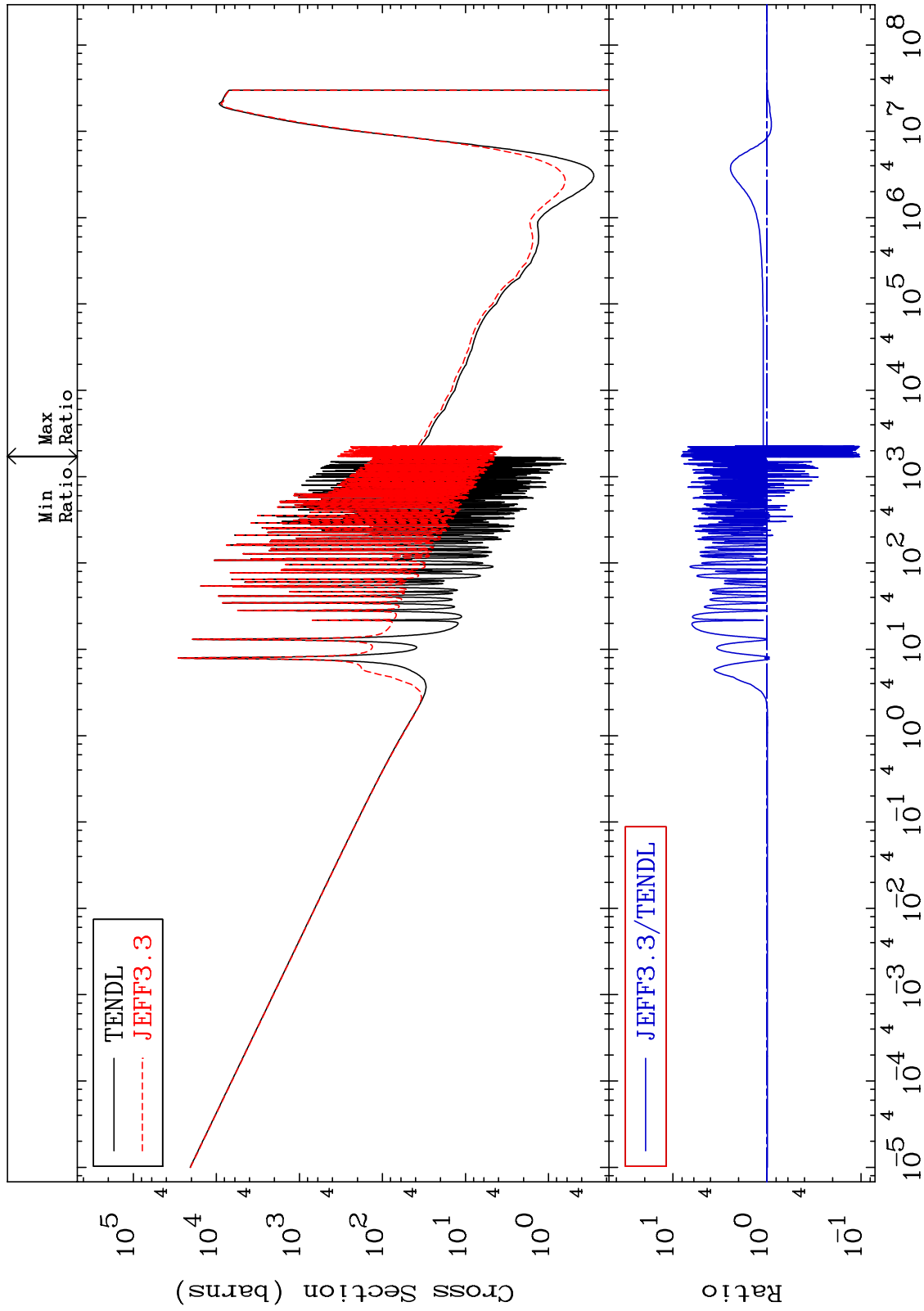
Incident Energy (eV)

70-Yb-171

MAT 7034

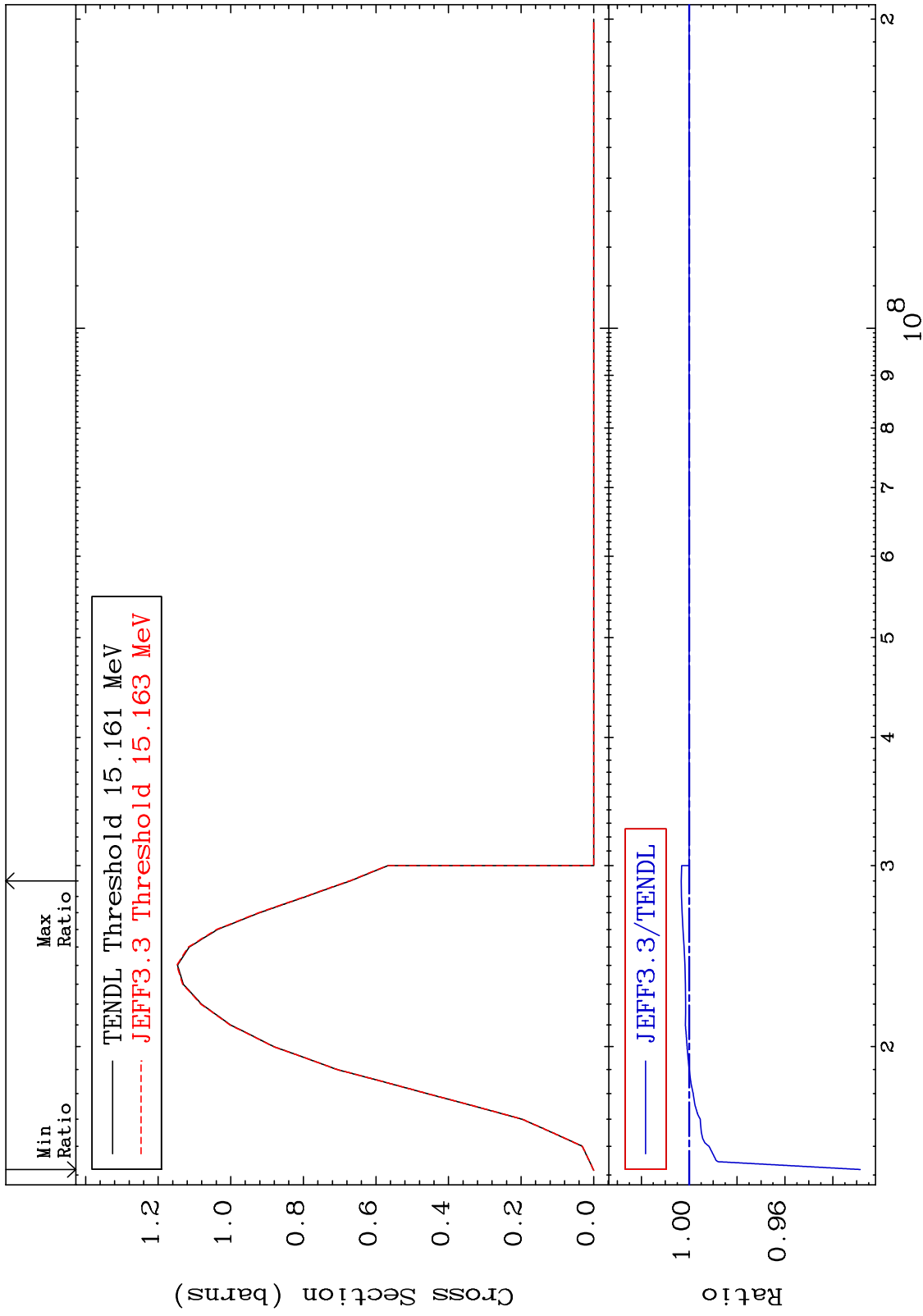
Dpa disappearance (mt102 -120)
Cross Section

70-Yb-171
-89.70 To 716.8 %



MAT 7034

(n,3n):70-Yb-169g 70-Yb-171
Radionuclide Production Cross Section -7.146 To 0.331 %



80

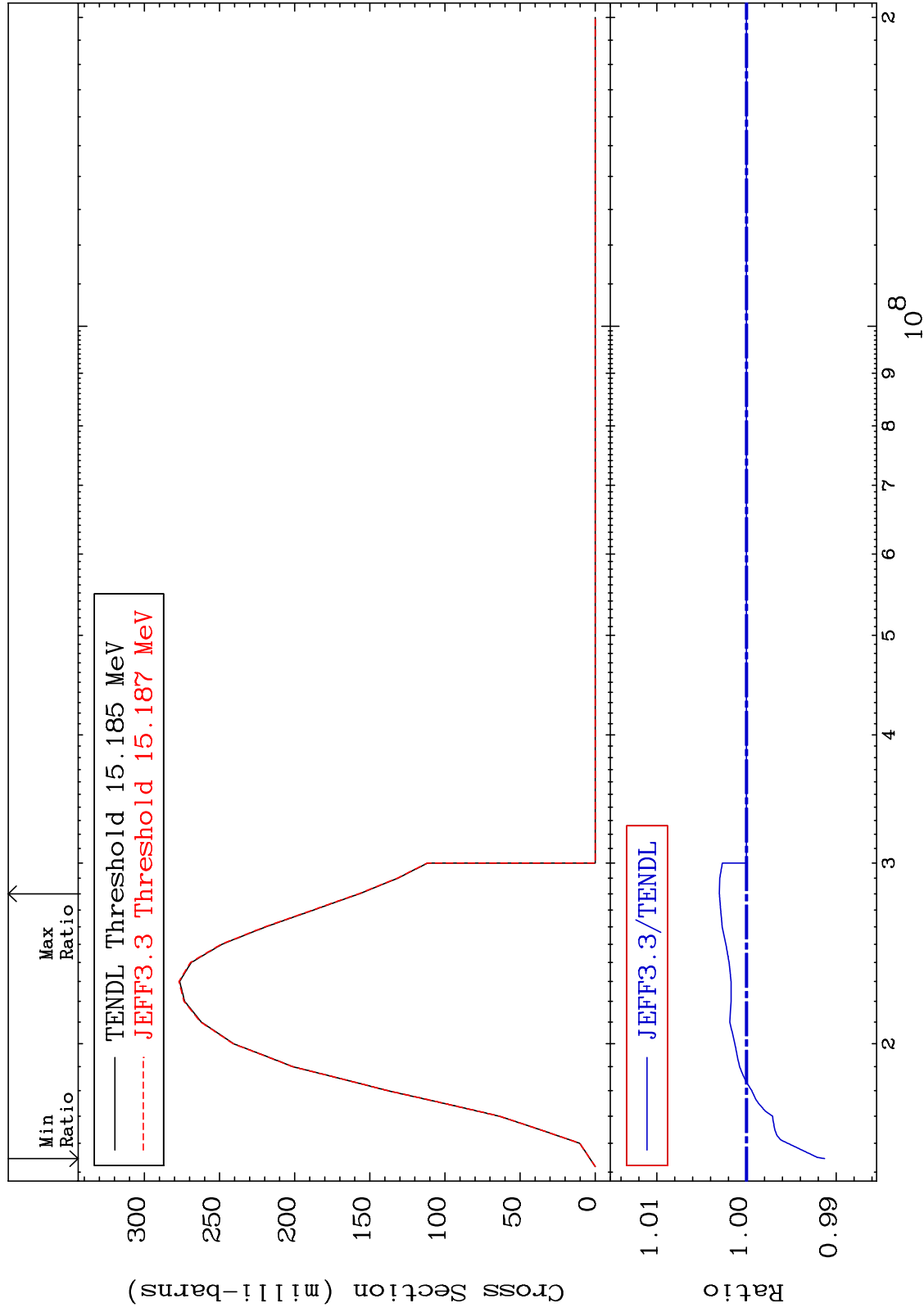
70-Yb-171

MAT 7034

(n,3n):70-Yb-169m1

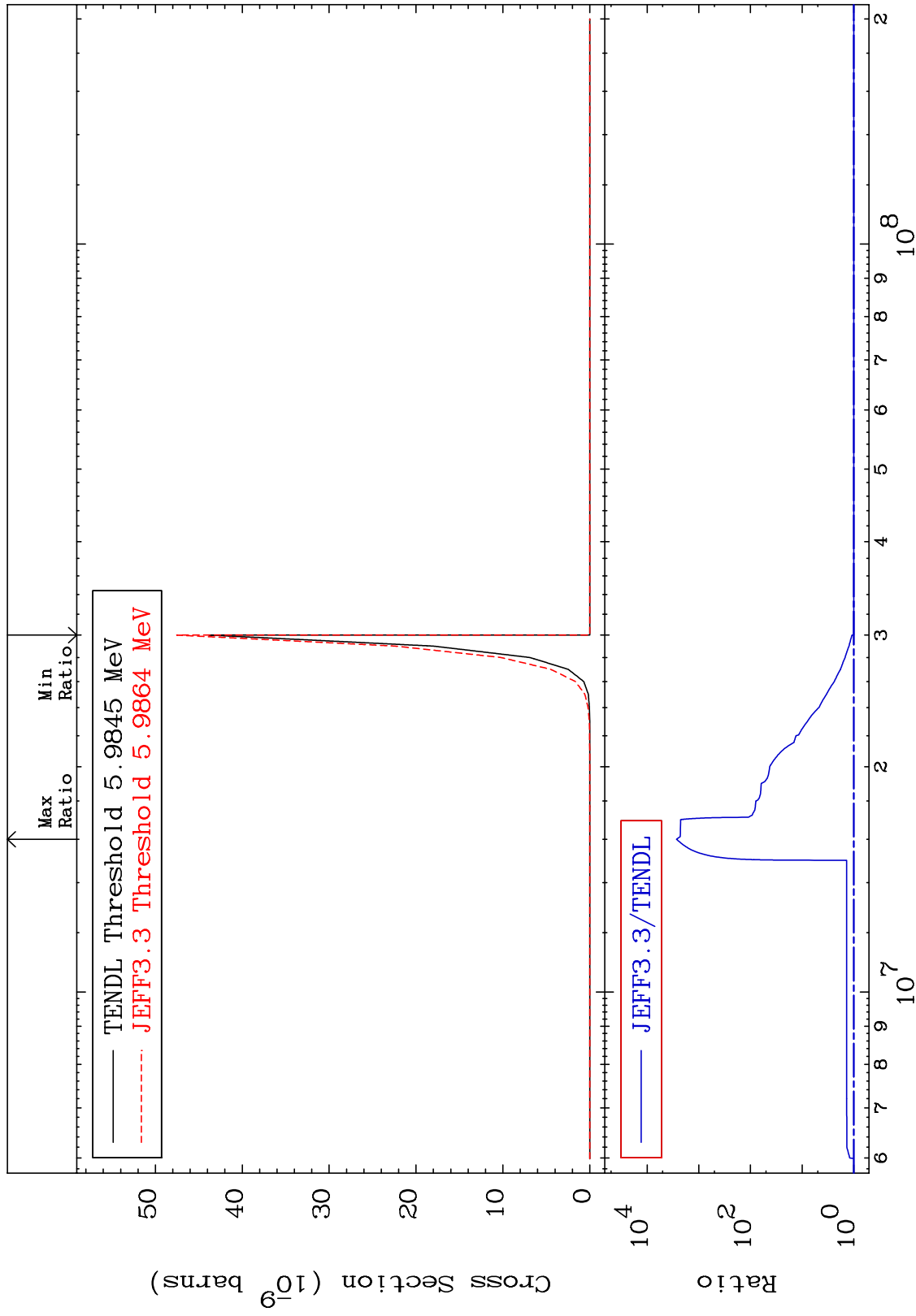
70-Yb-171

Radionuclide Production Cross Section -0.873 To 0.303 %



MAT 7034

(n,n') p α :67-Ho-166g 70-Yb-171
Radionuclide Production Cross Section 0.000 To 9999. %



82

Incident Energy (eV)

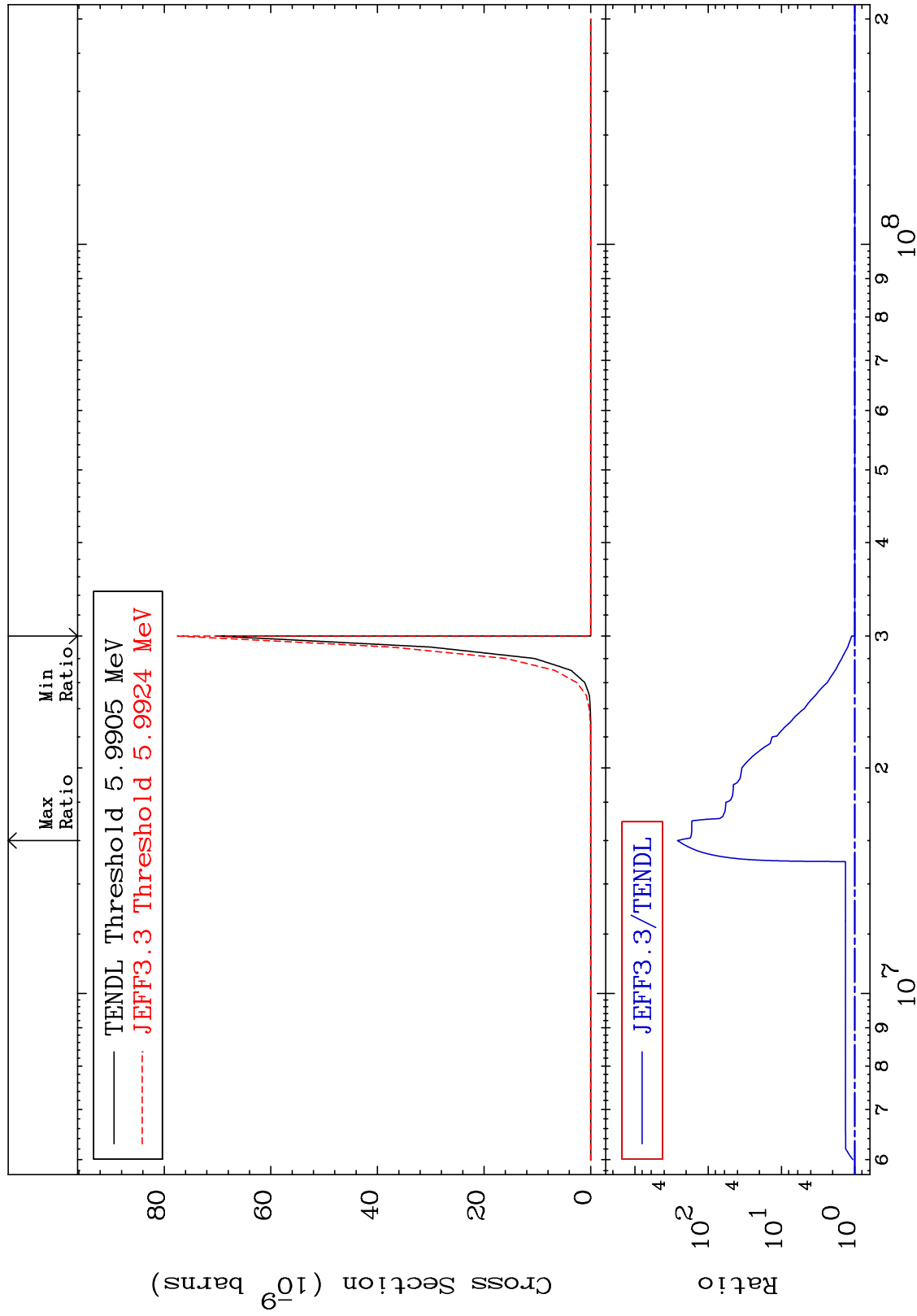
70-Yb-171

MAT 7034

(n,n') p α :67-Ho-166m1

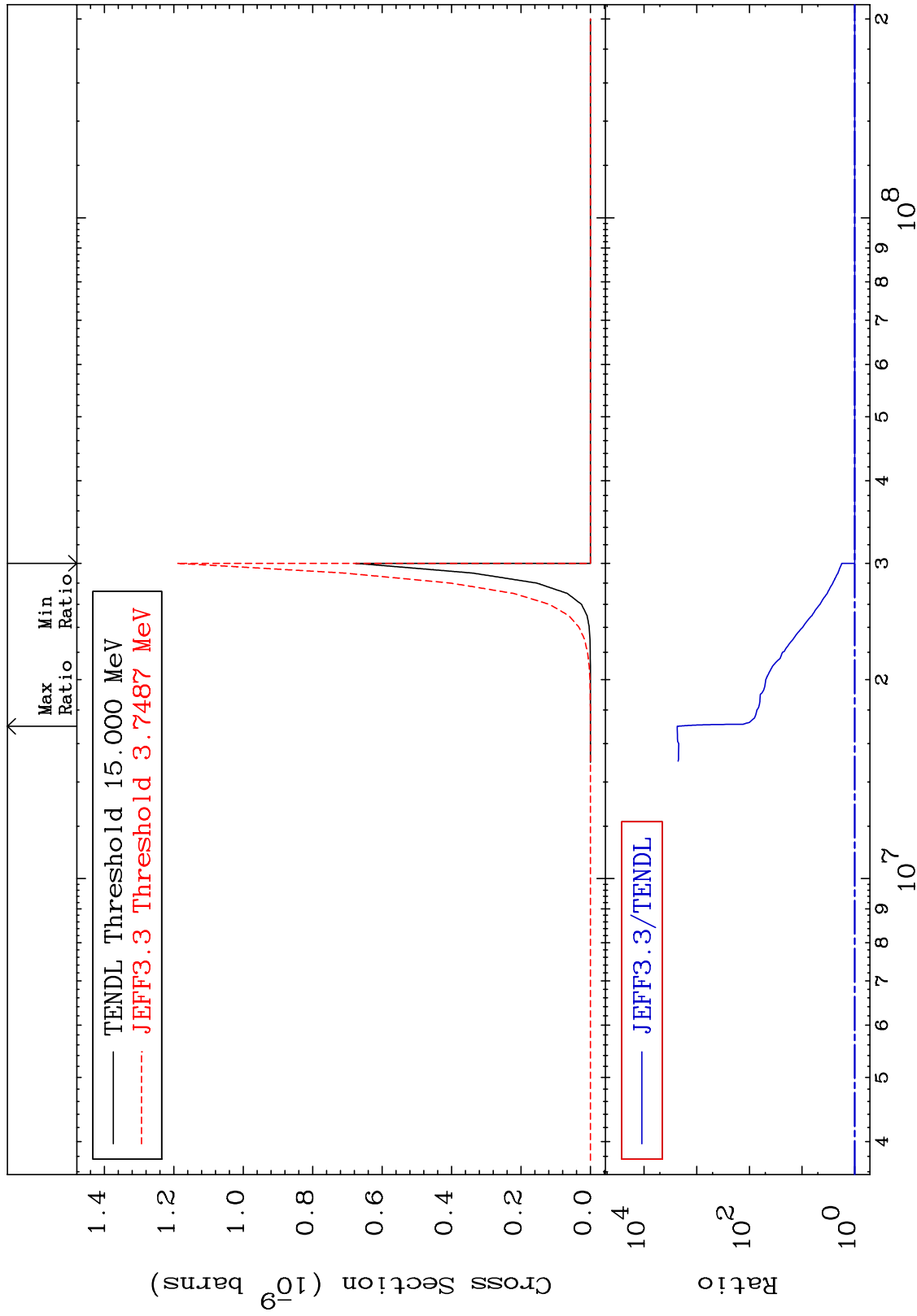
70-Yb-171

Radionuclide Production Cross Section 0.000 To 9999. %



MAT 7034

(n, d) α : 67-Ho-166g 70-Yb-171
Radionuclide Production Cross Section 0.000 To 9999. %



MAT 7034 (n,d) α :67-Ho-166m1 70-Yb-171
 Radionuclide Production Cross Section 0.000 To 9999. %

