

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

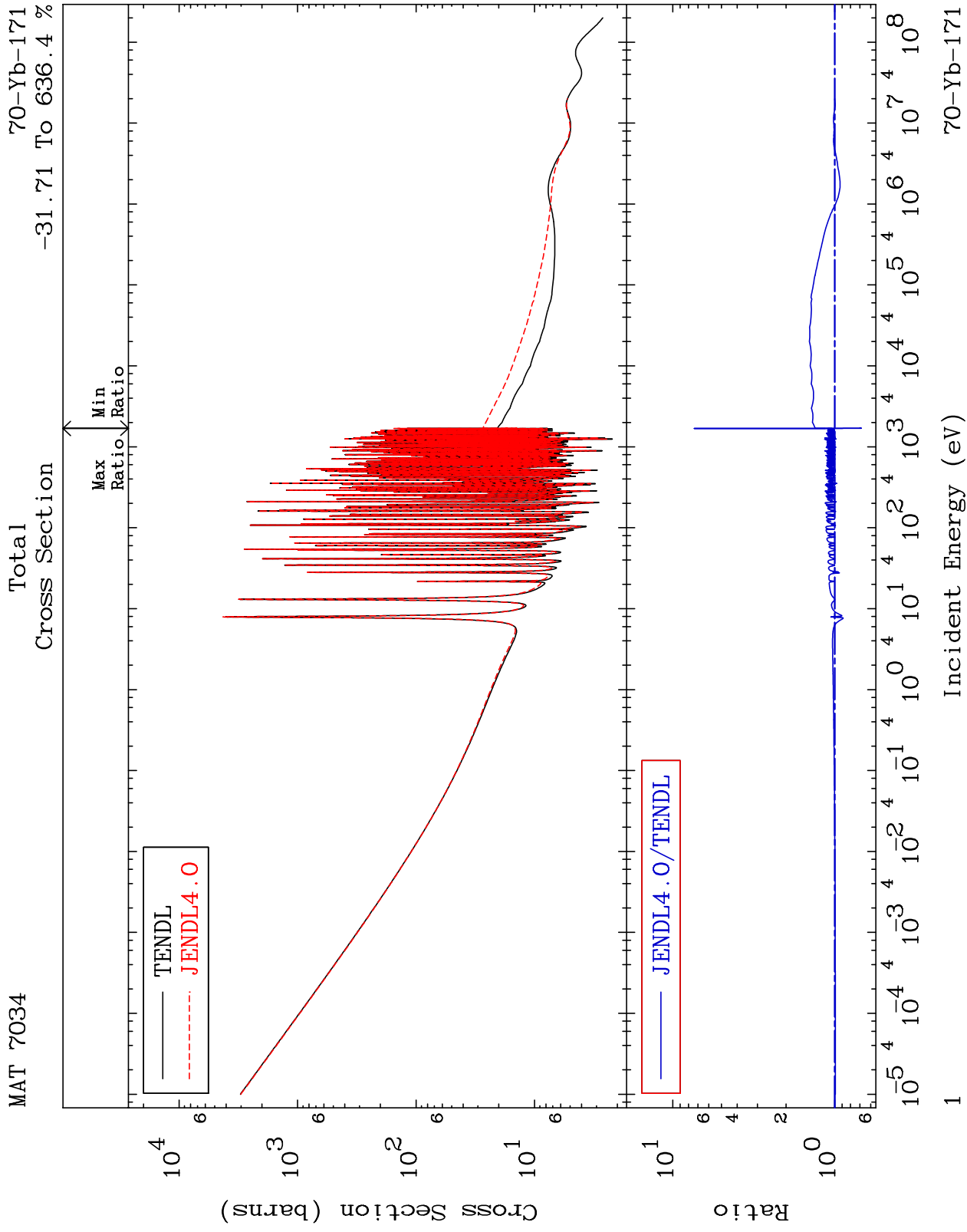
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

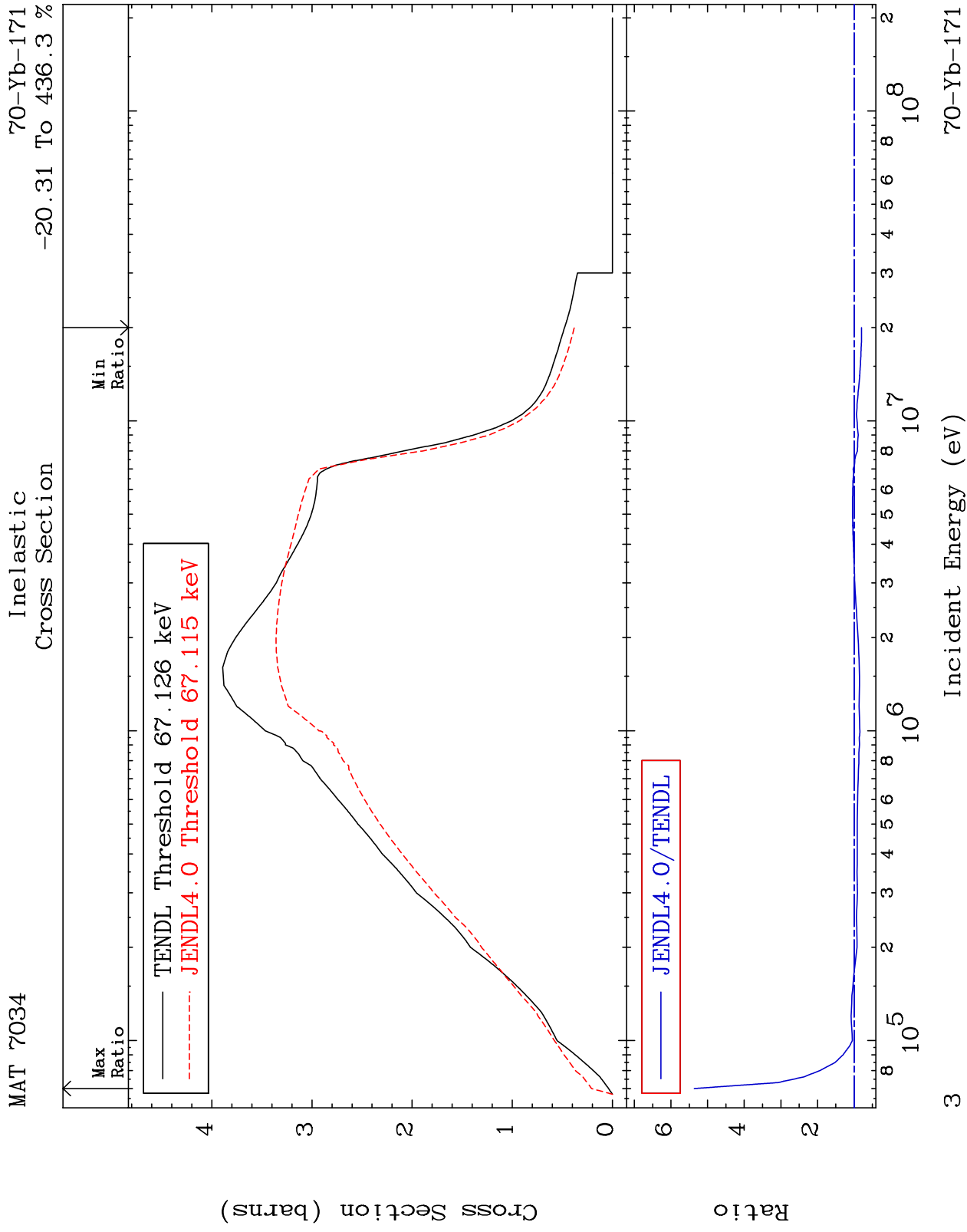
U.S.A.

Tele: 925-443-1911

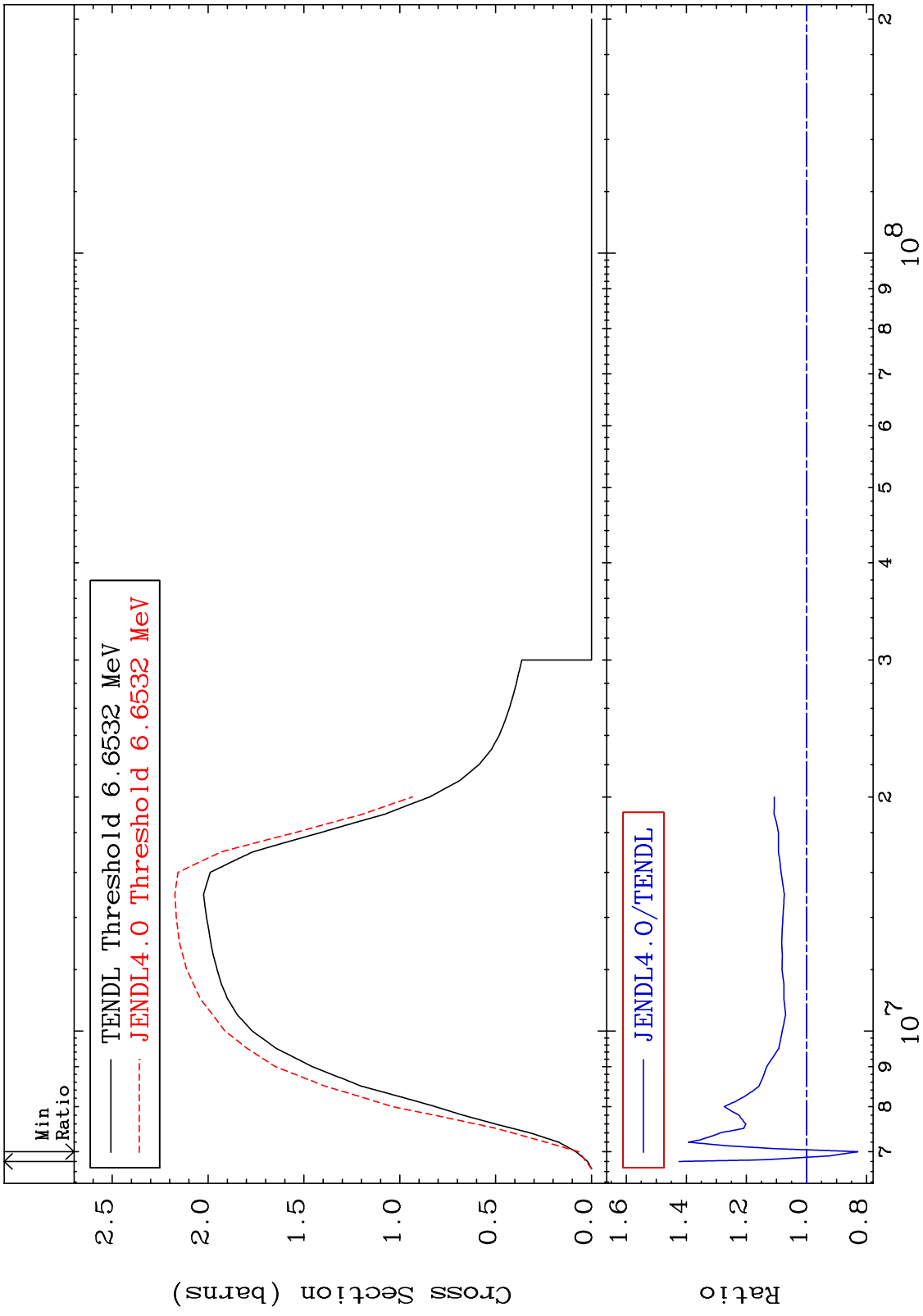
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start



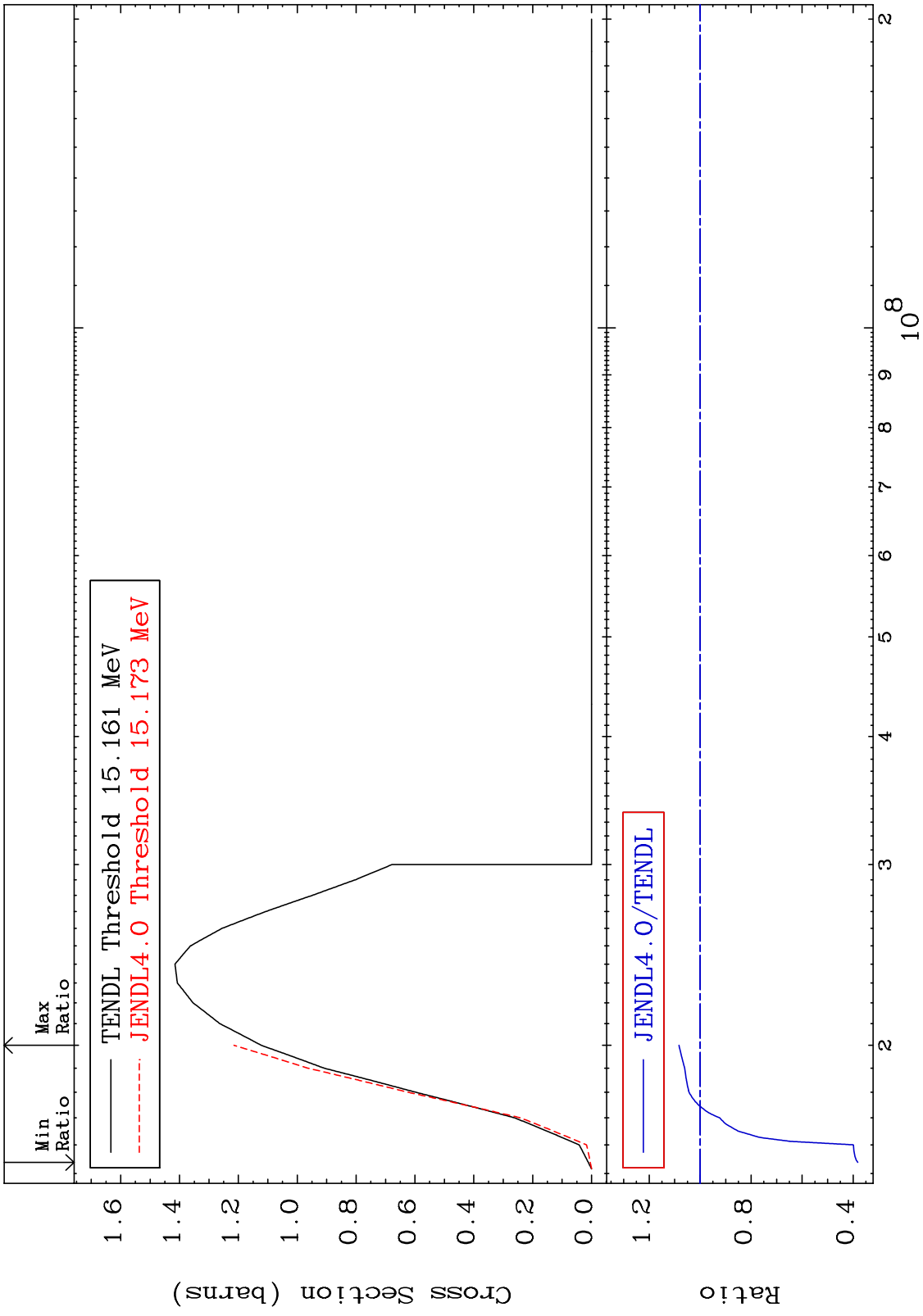


MAT 7034 (n,2n) Cross Section 70-Yb-171 -17.10 To 42.42 %



4 70-Yb-171

MAT 7034 (n,3n) Cross Section 70-Yb-171 -61.84 To 8.275 %



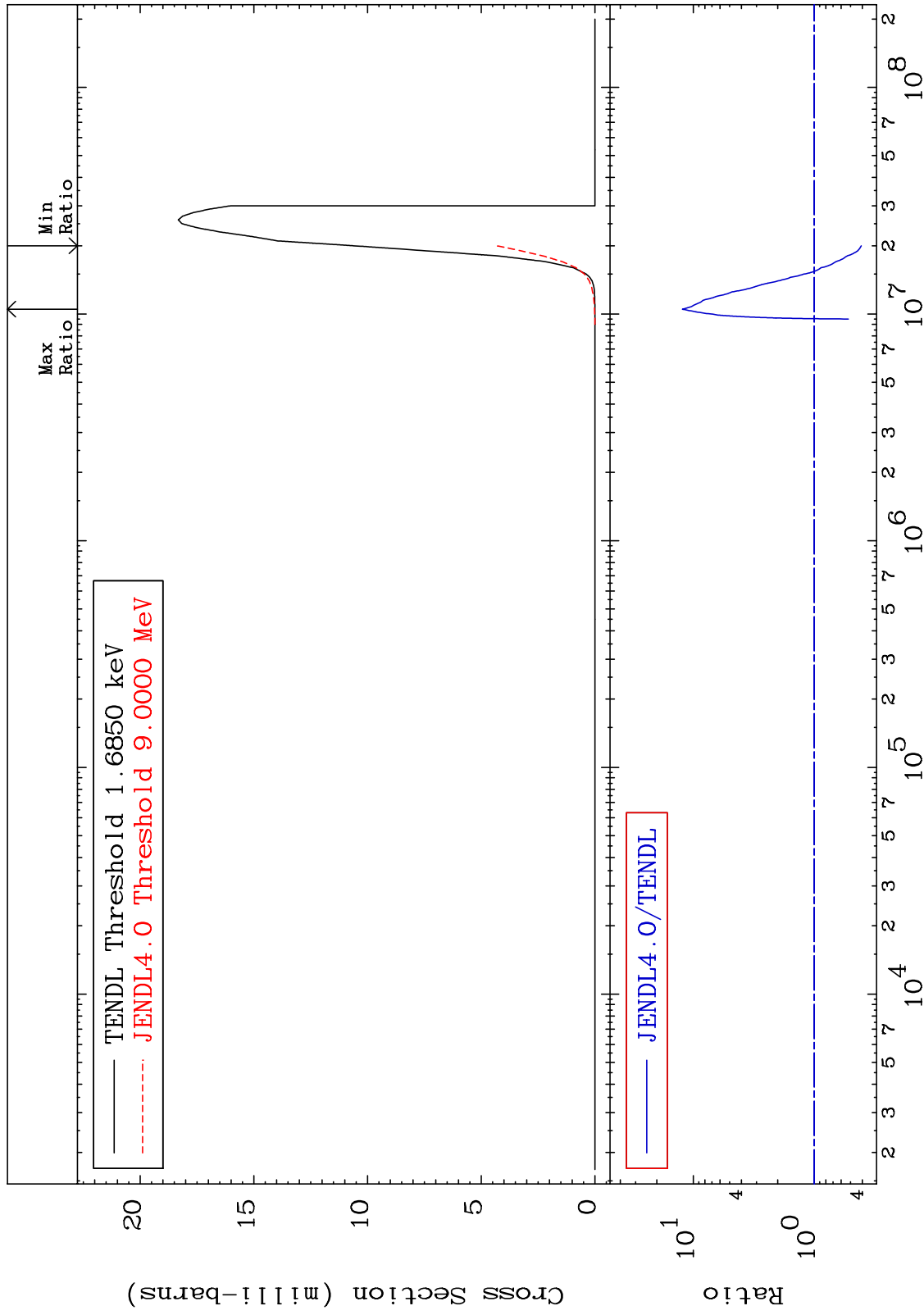
MAT 7034

(n, n') α

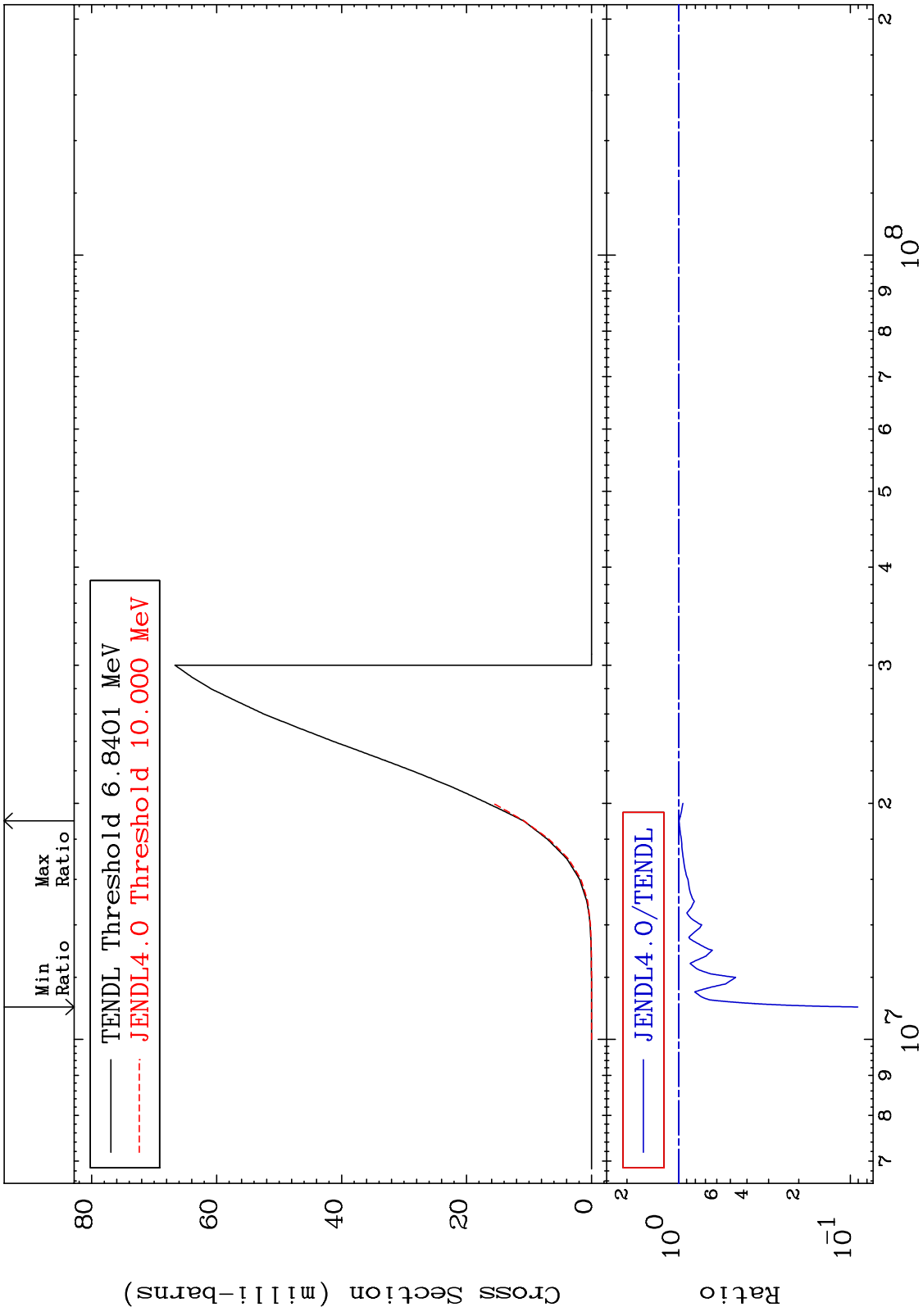
70-Yb-171

Cross Section

-59.19 To 1128. %

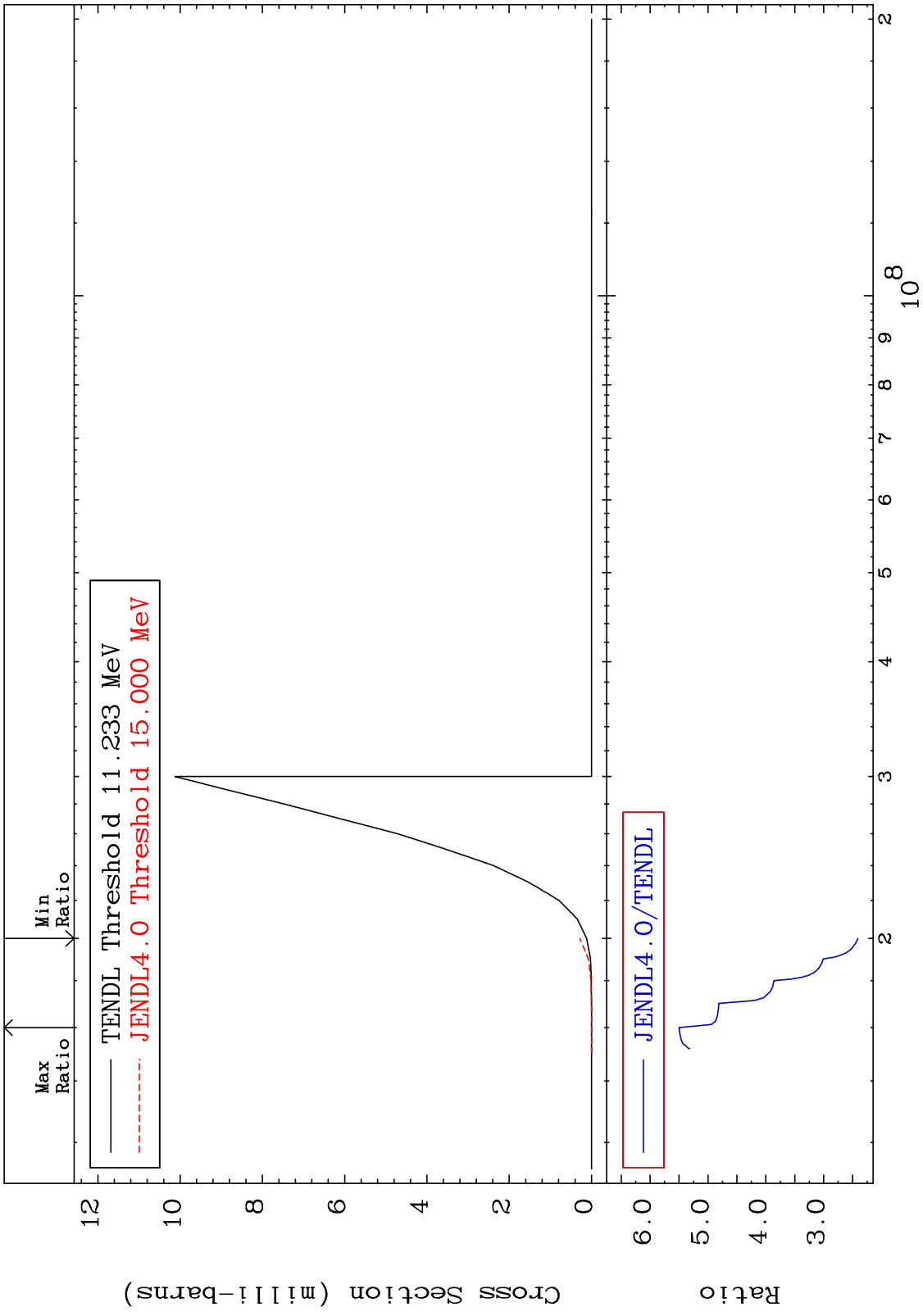


MAT 7034 $(n, n') p$ $^{70}\text{Yb}-171$
Cross Section $-90.95 \text{ To } -0.419\%$

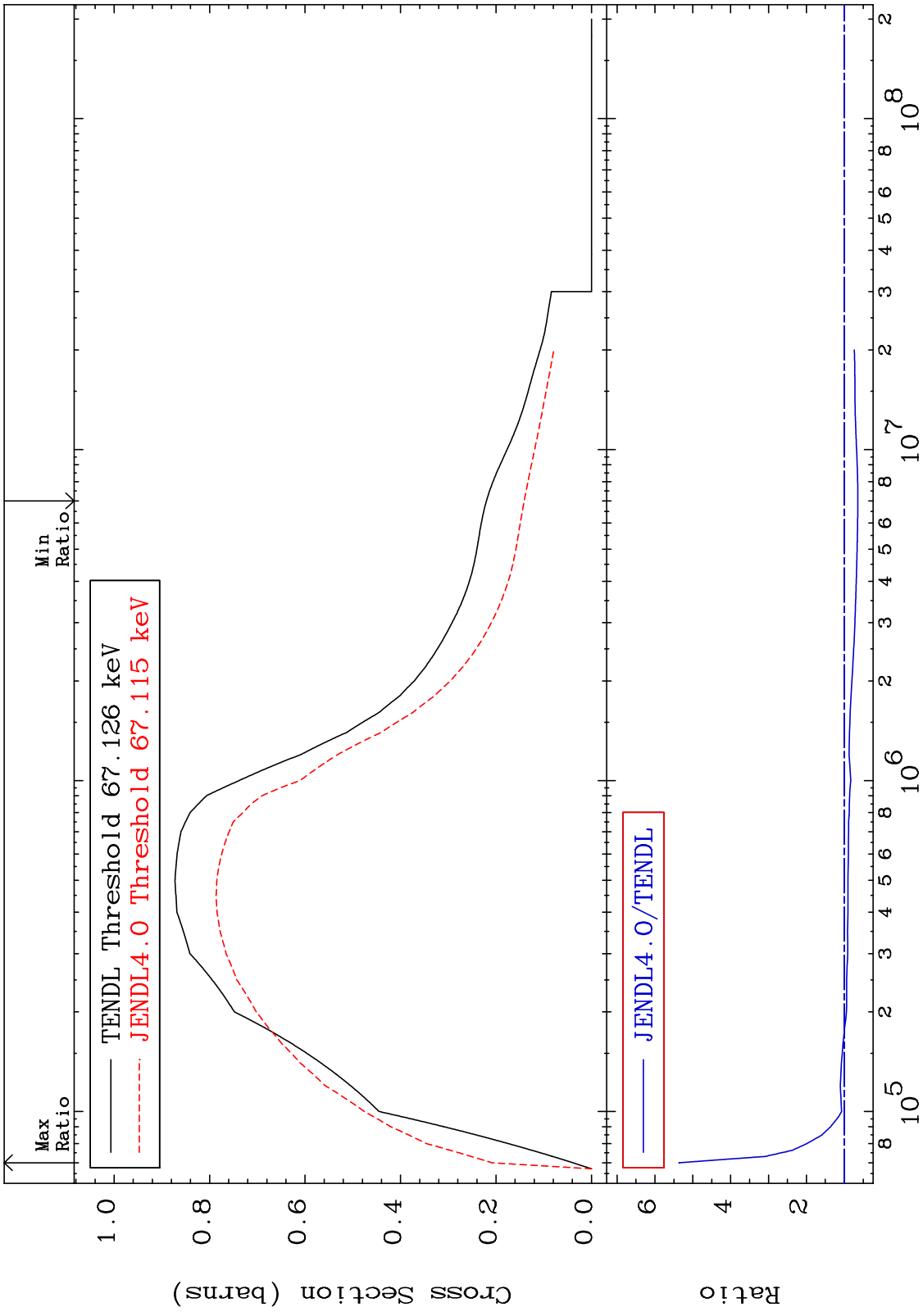


7 Incident Energy (eV) $^{70}\text{Yb}-171$

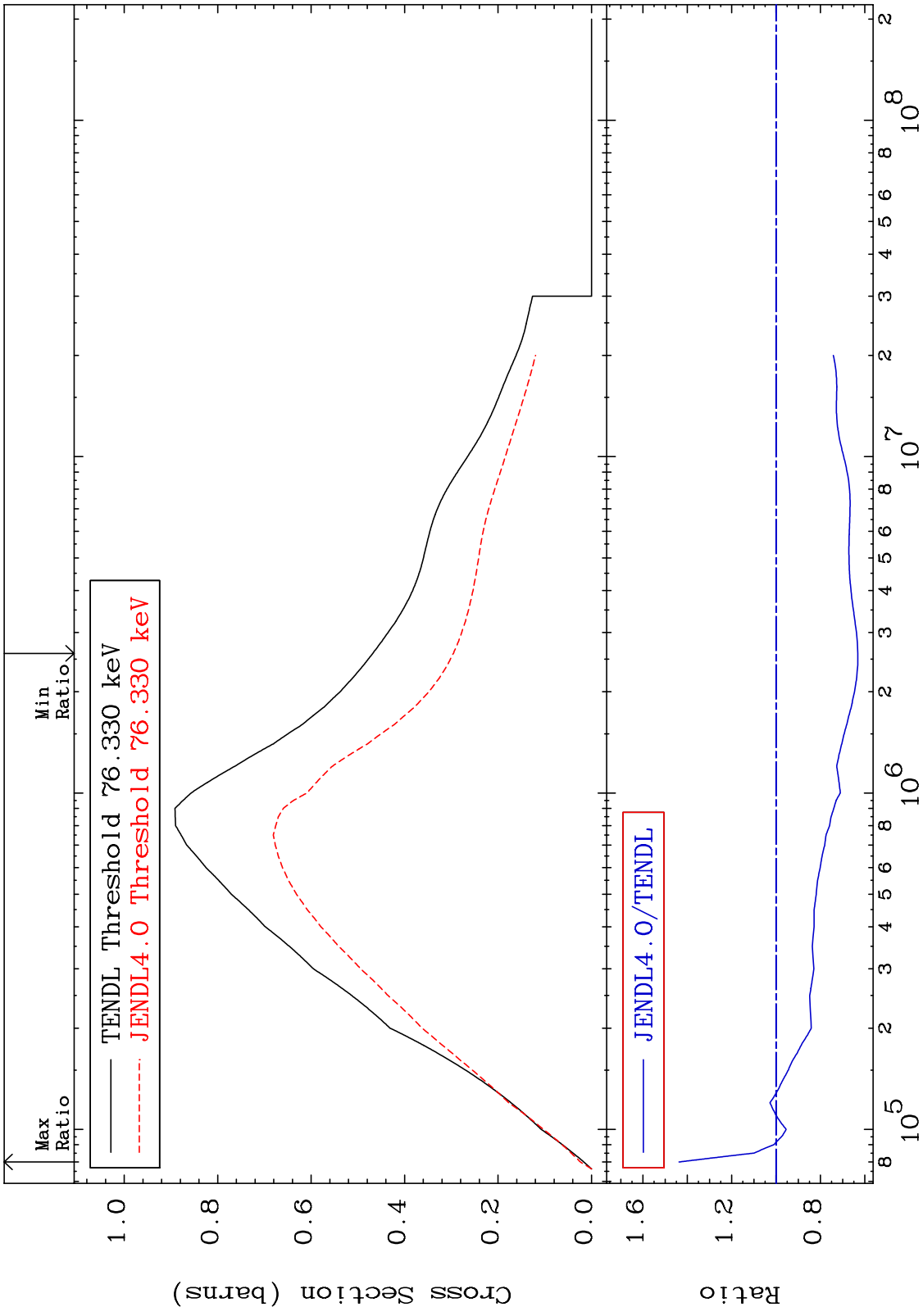
MAT 7034 (n,n') d 70-Yb-171
 Cross Section 141.0 To 450.1 %



MAT 7034 MT= 51 (n,n') Level Cross Section 70-Yb-171 -35.97 To 436.3 %

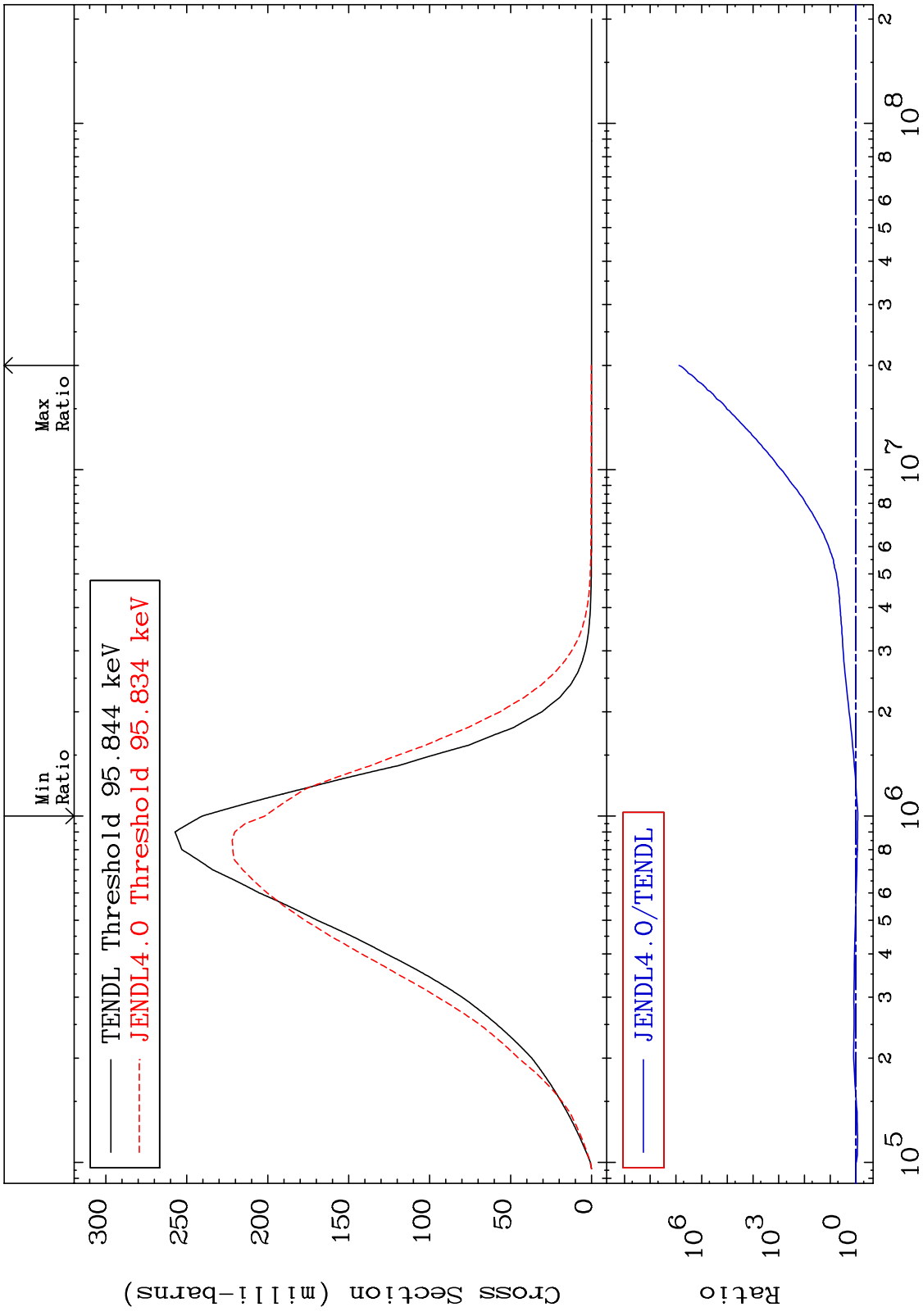


MAT 7034 MT= 52 (n,n') Level Cross Section -36.83 To 43.76 % 70-Yb-171



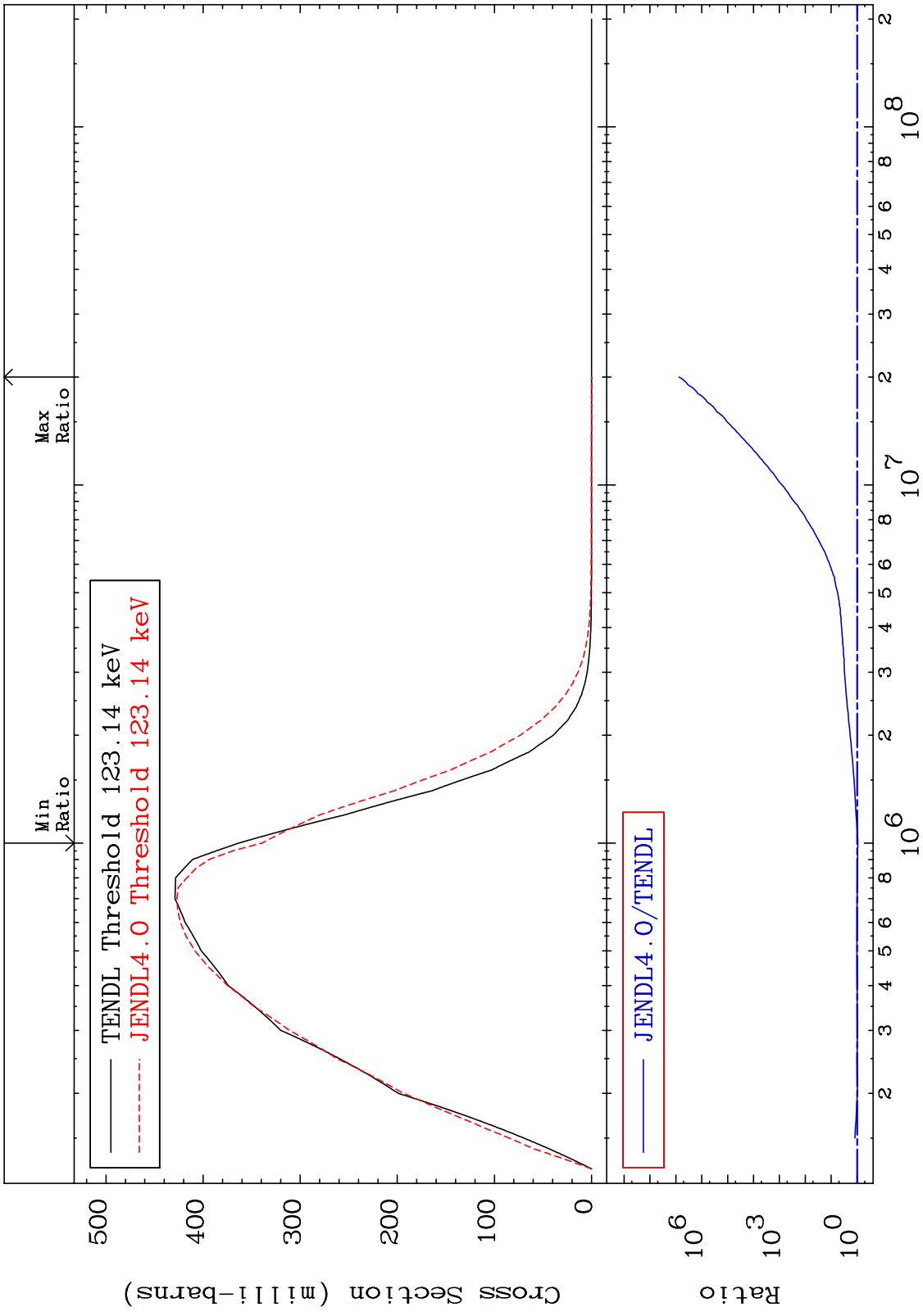
70-Yb-171

MAT 7034 MT= 53 (n,n') Level Cross Section 70-Yb-171
 -16.08 To 9999. %

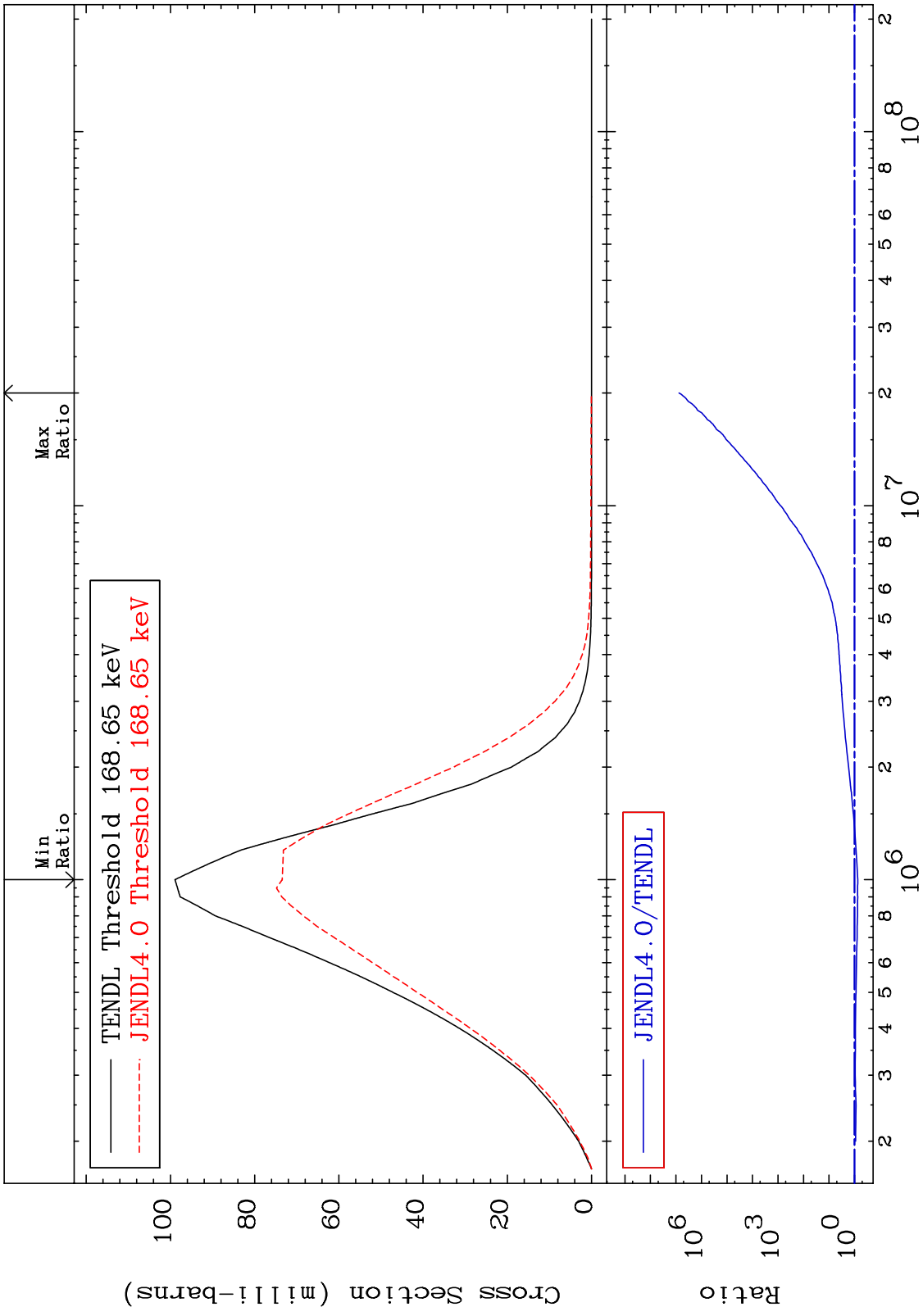


11 Incident Energy (eV) 70-Yb-171

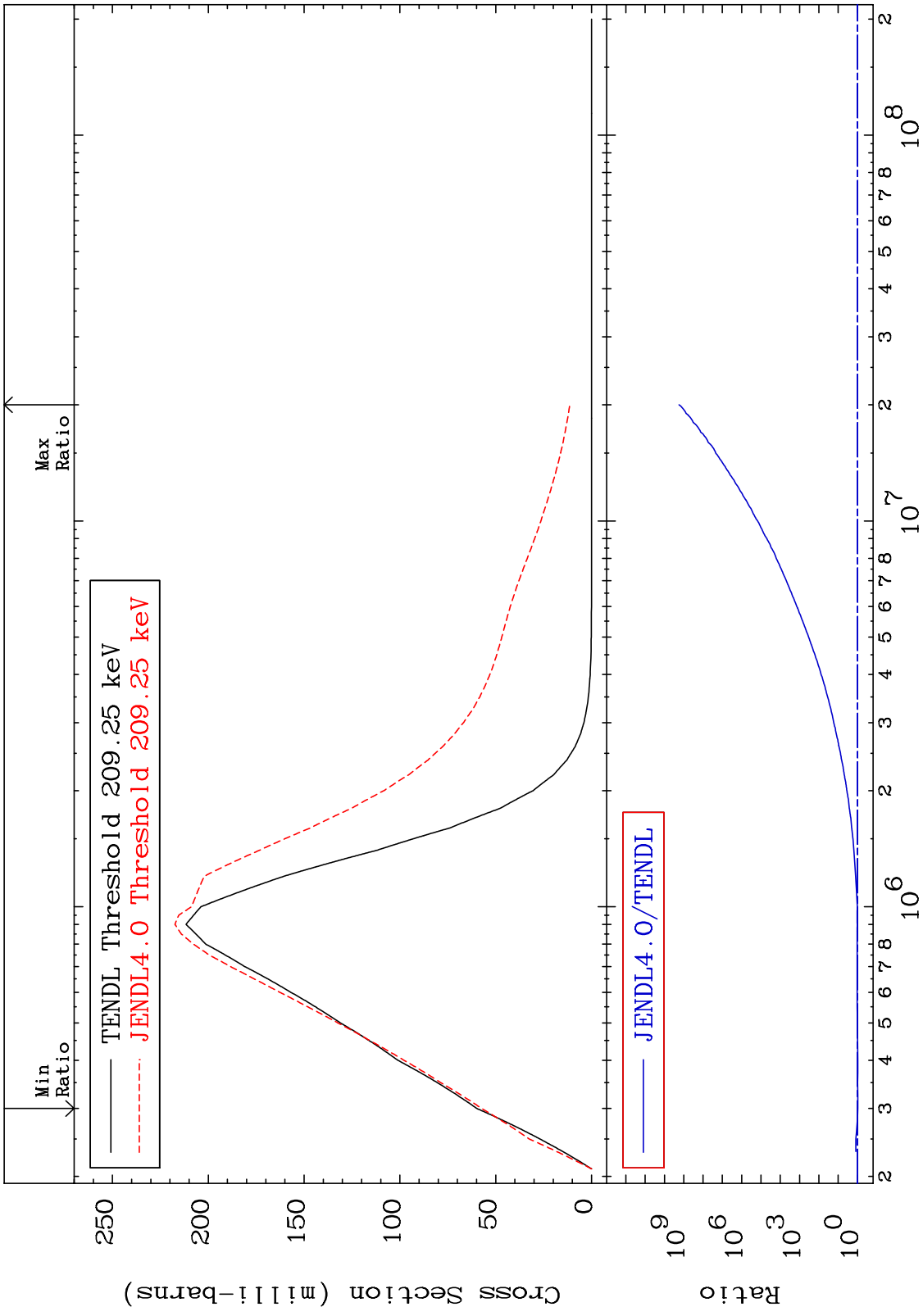
MAT 7034 MT= 54 (n,n') Level Cross Section 70-Yb-171
 -6.588 To 9999. %



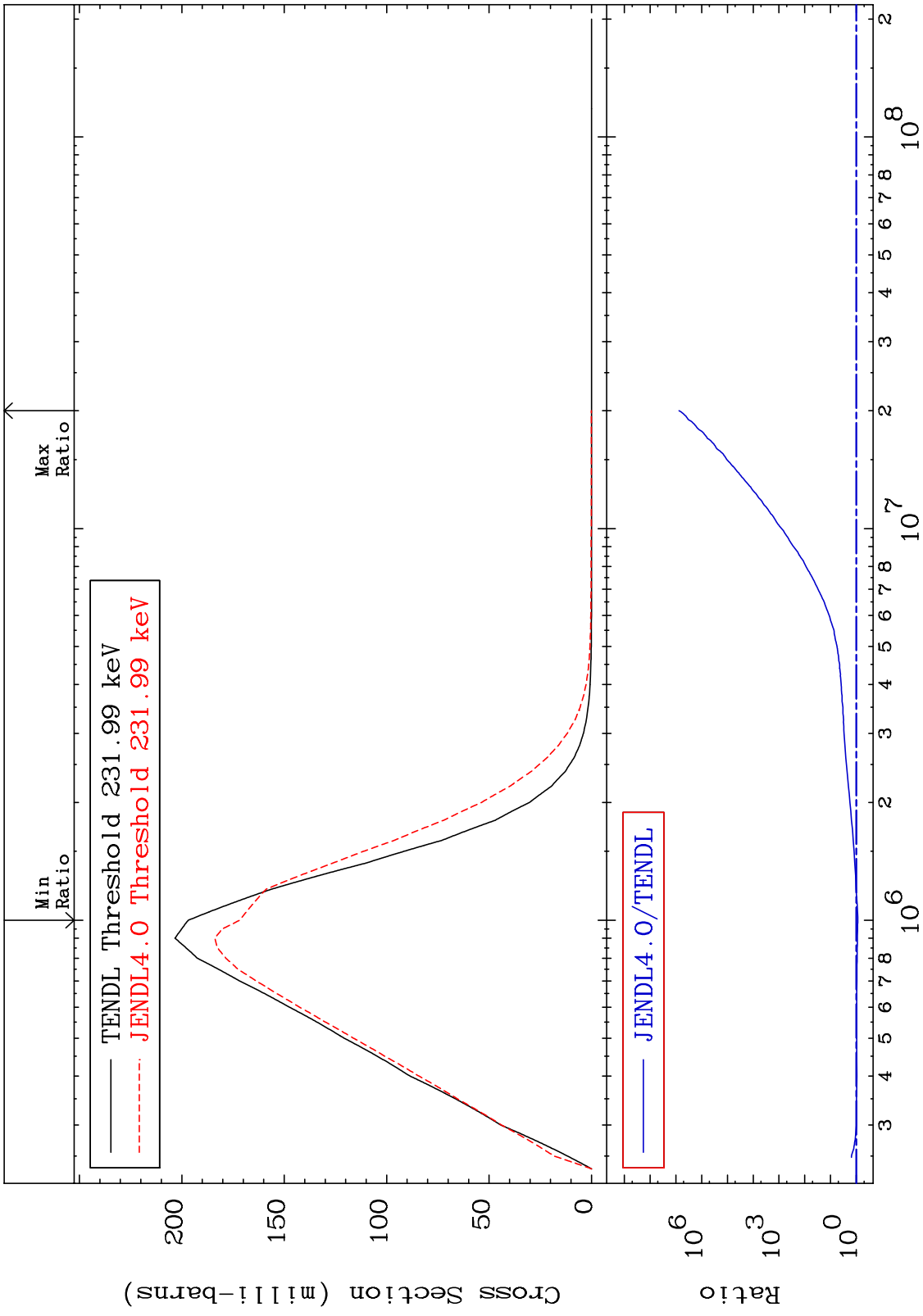
MAT 7034 MT= 55 (n,n') Level Cross Section 70-Yb-171
 -25.75 To 9999. %



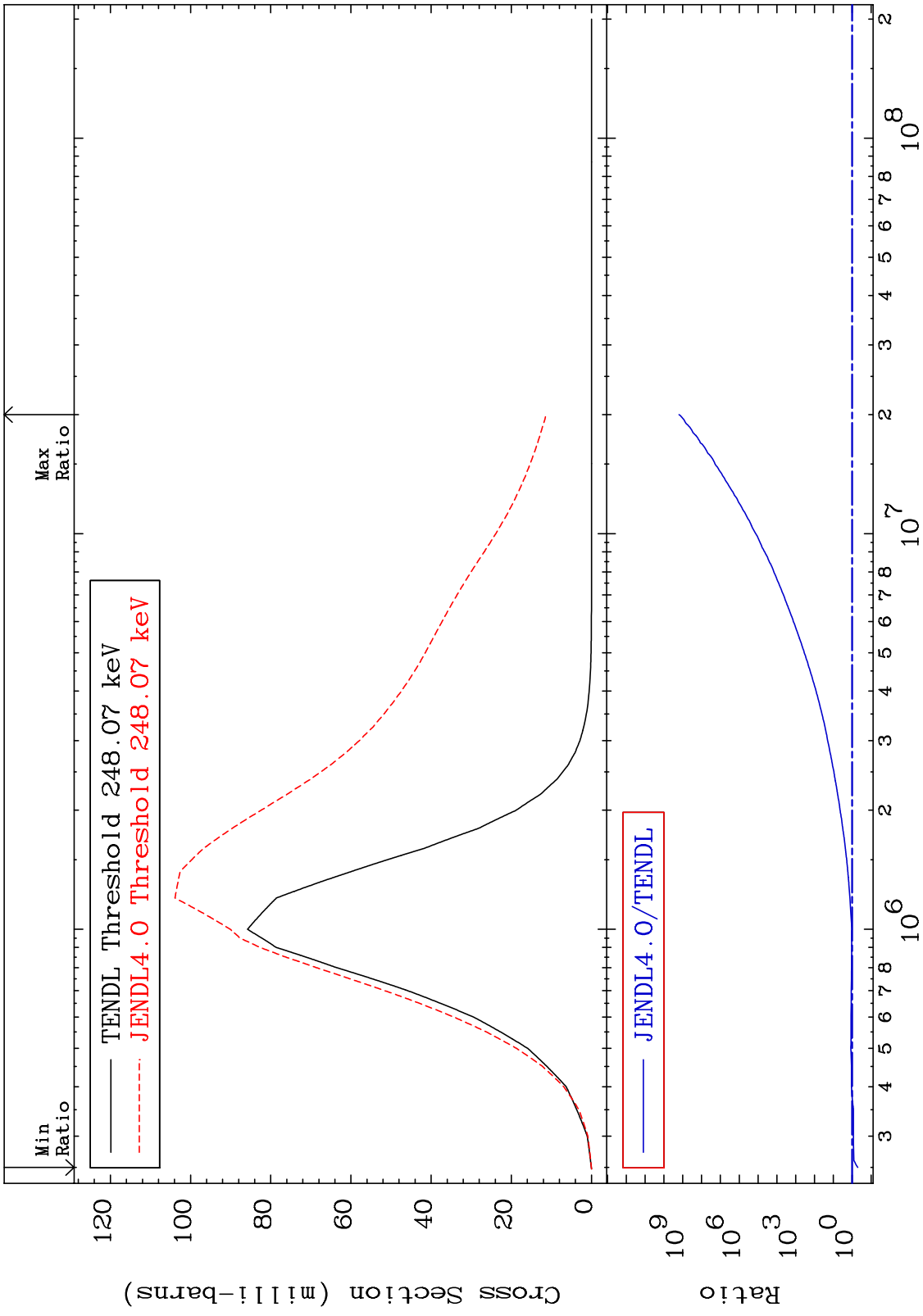
MAT 7034 MT= 56 (n,n') Level Cross Section 70-Yb-171
 -4.204 To 9999. %



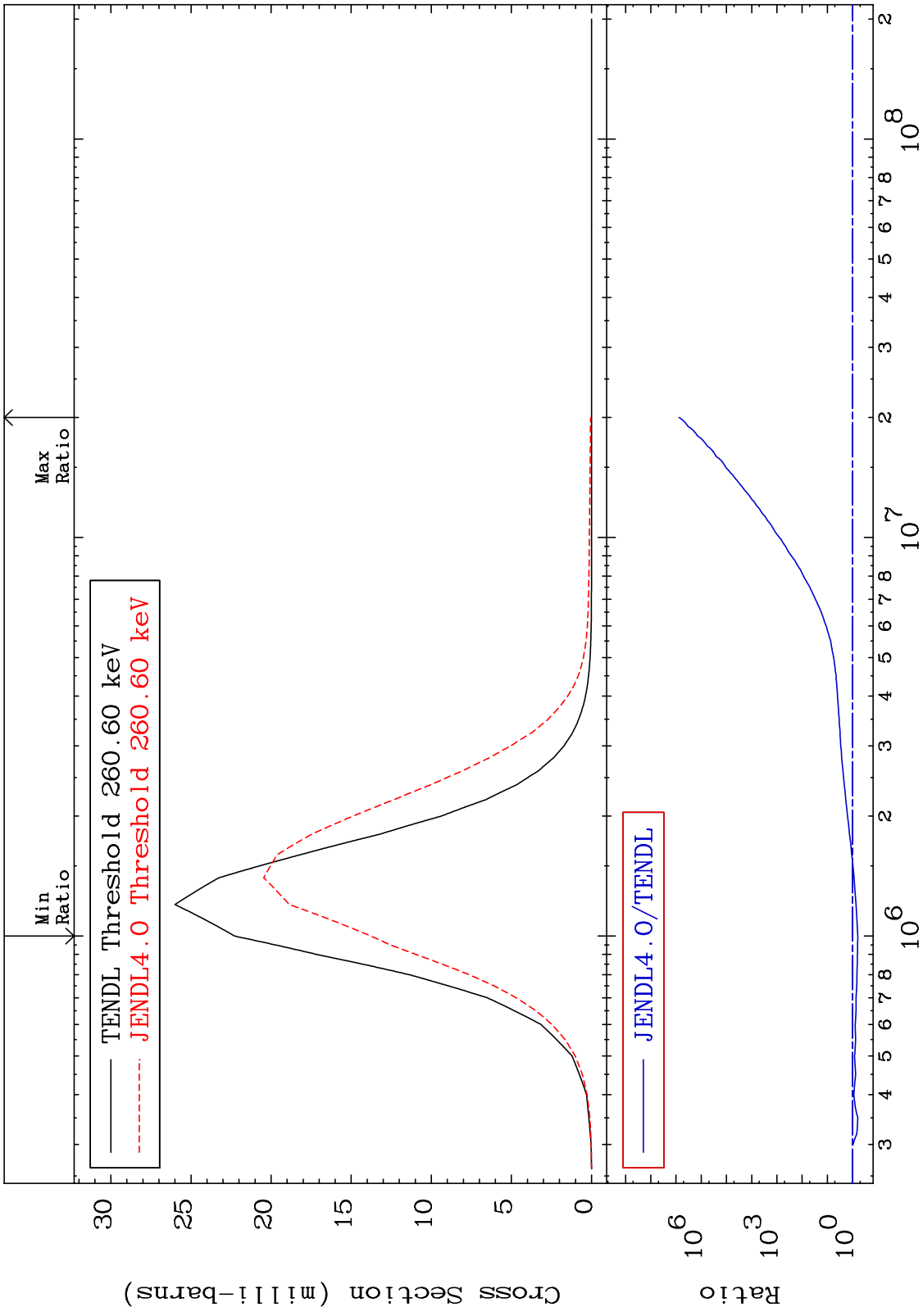
MAT 7034 MT= 57 (n,n') Level Cross Section 70-Yb-171 -12.75 To 9999. %



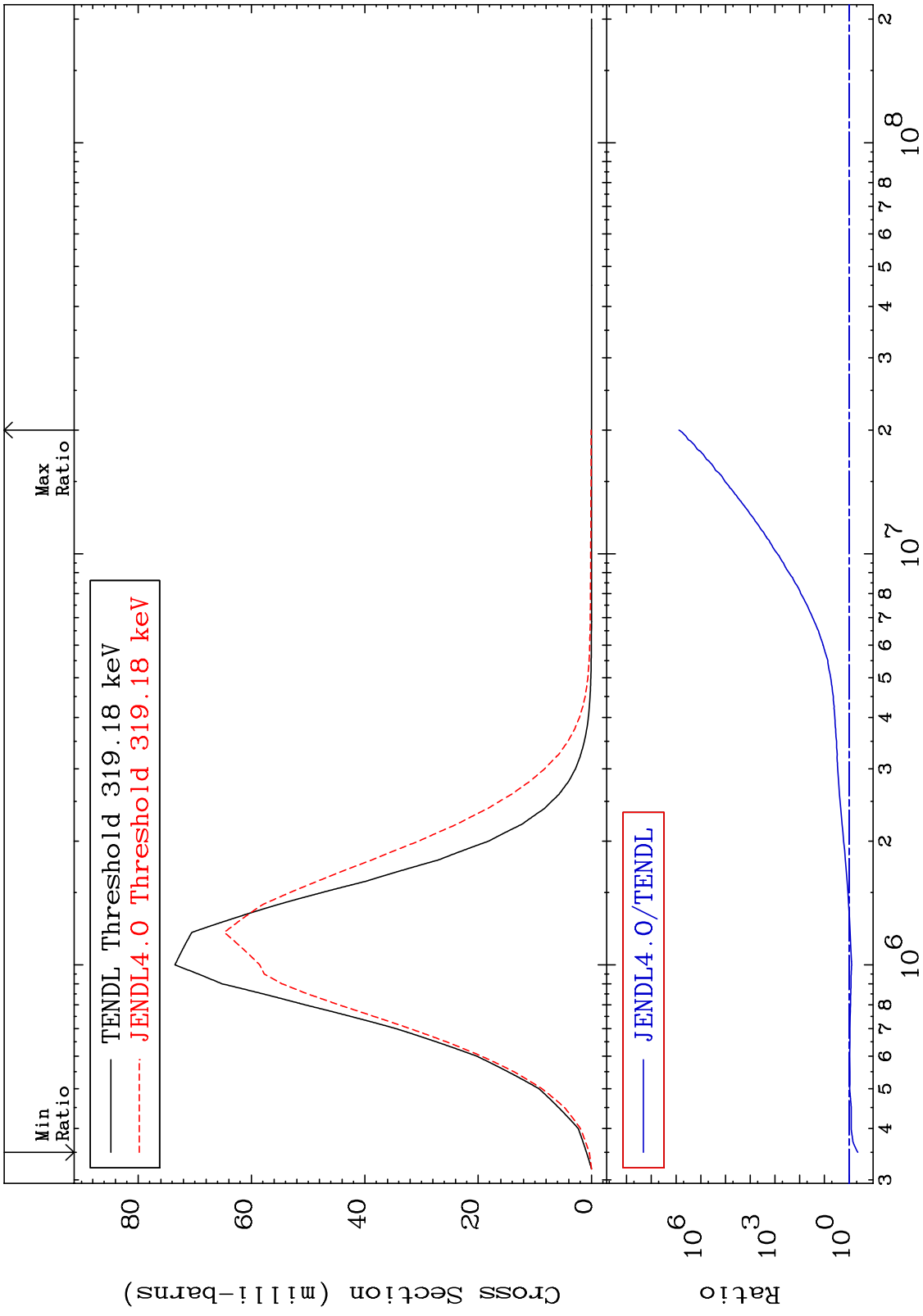
MAT 7034 MT= 58 (n,n') Level Cross Section 70-Yb-171
 -49.87 To 9999. %



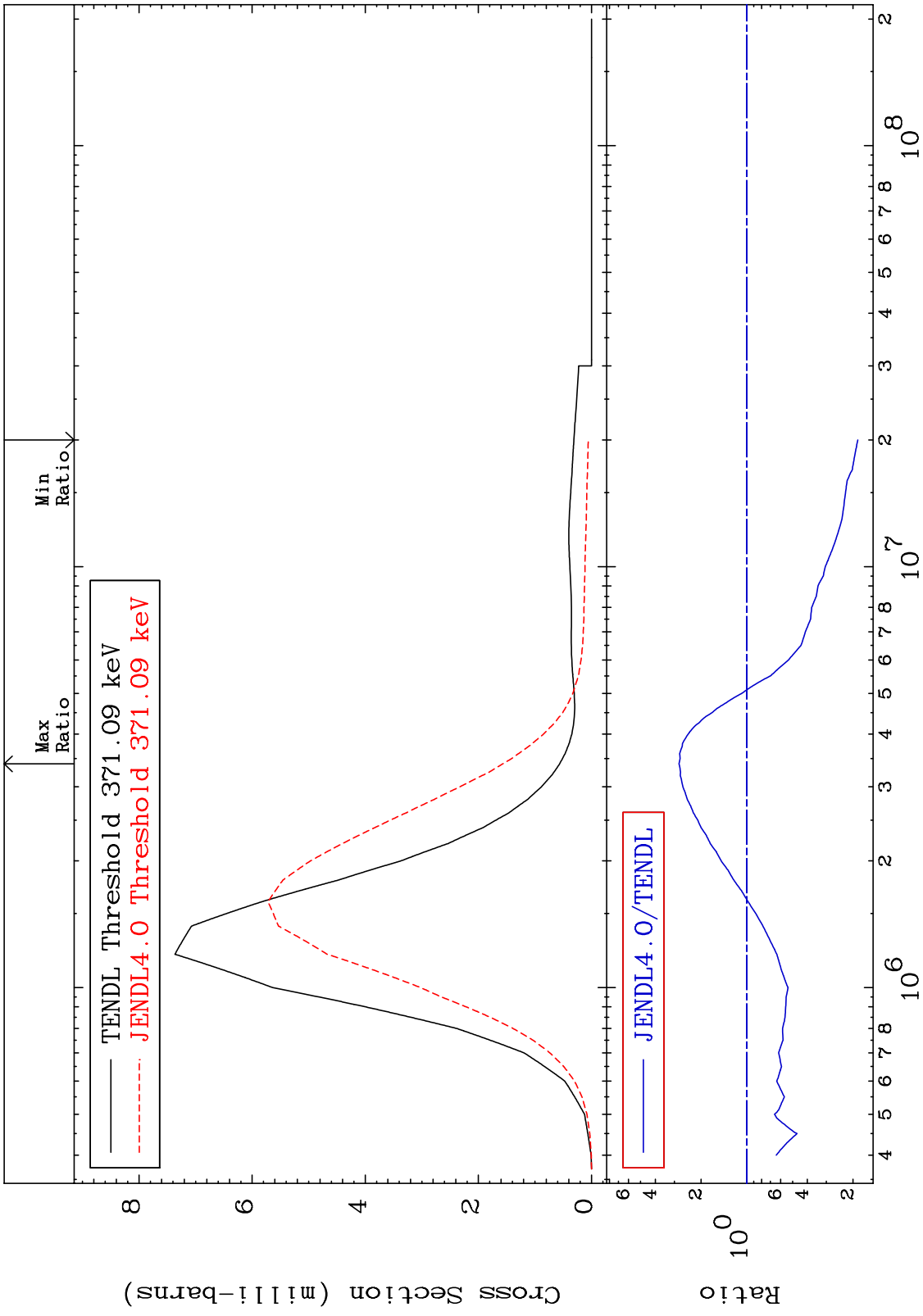
MAT 7034 MT= 59 (n,n') Level Cross Section 70-Yb-171
 -38.18 To 9999. %



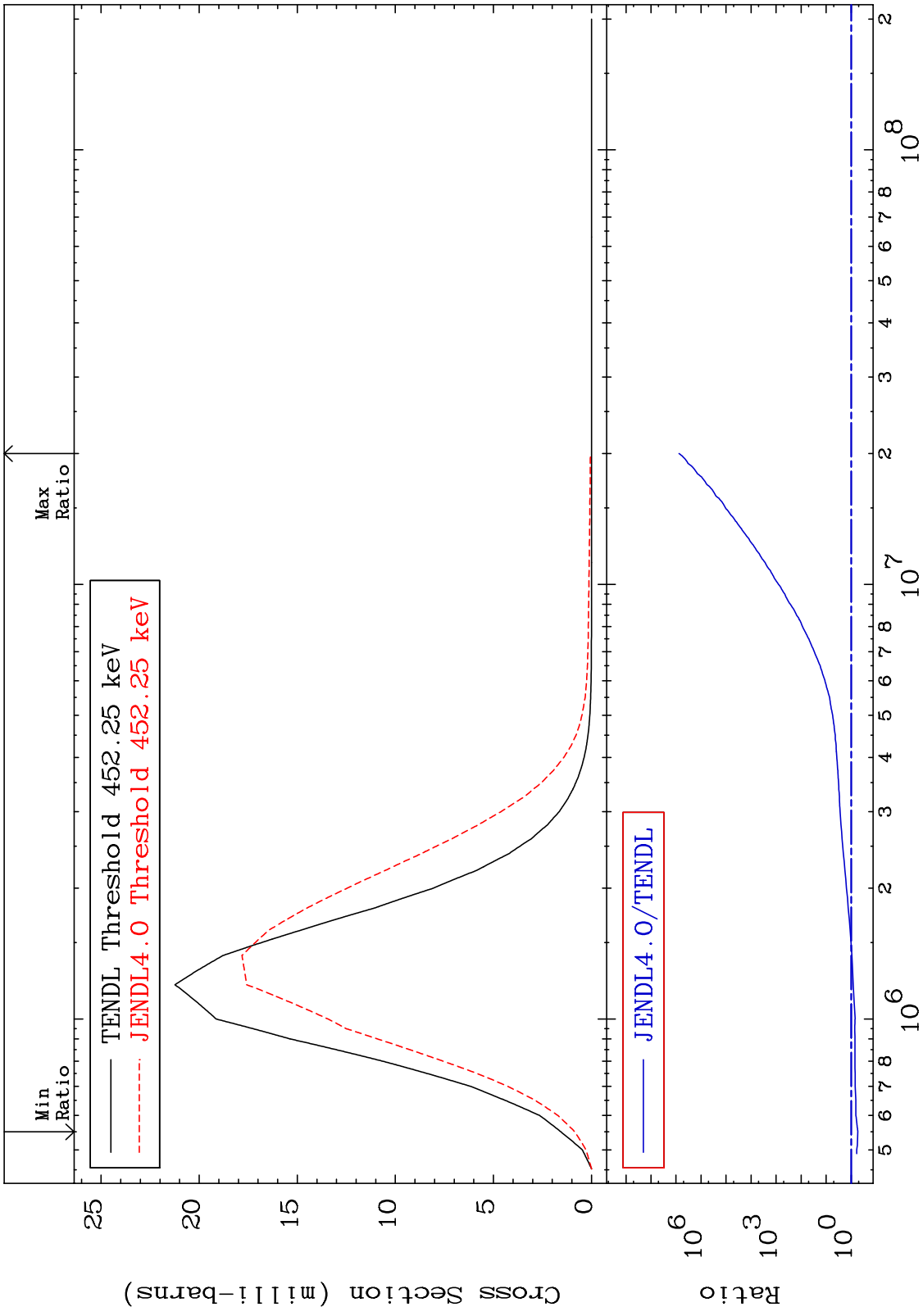
MAT 7034 MT= 60 (n,n') Level Cross Section 70-Yb-171 -55.44 To 9999. %



MAT 7034 MT= 61 (n,n') Level Cross Section 70-Yb-171
 -81.40 To 179.1 %

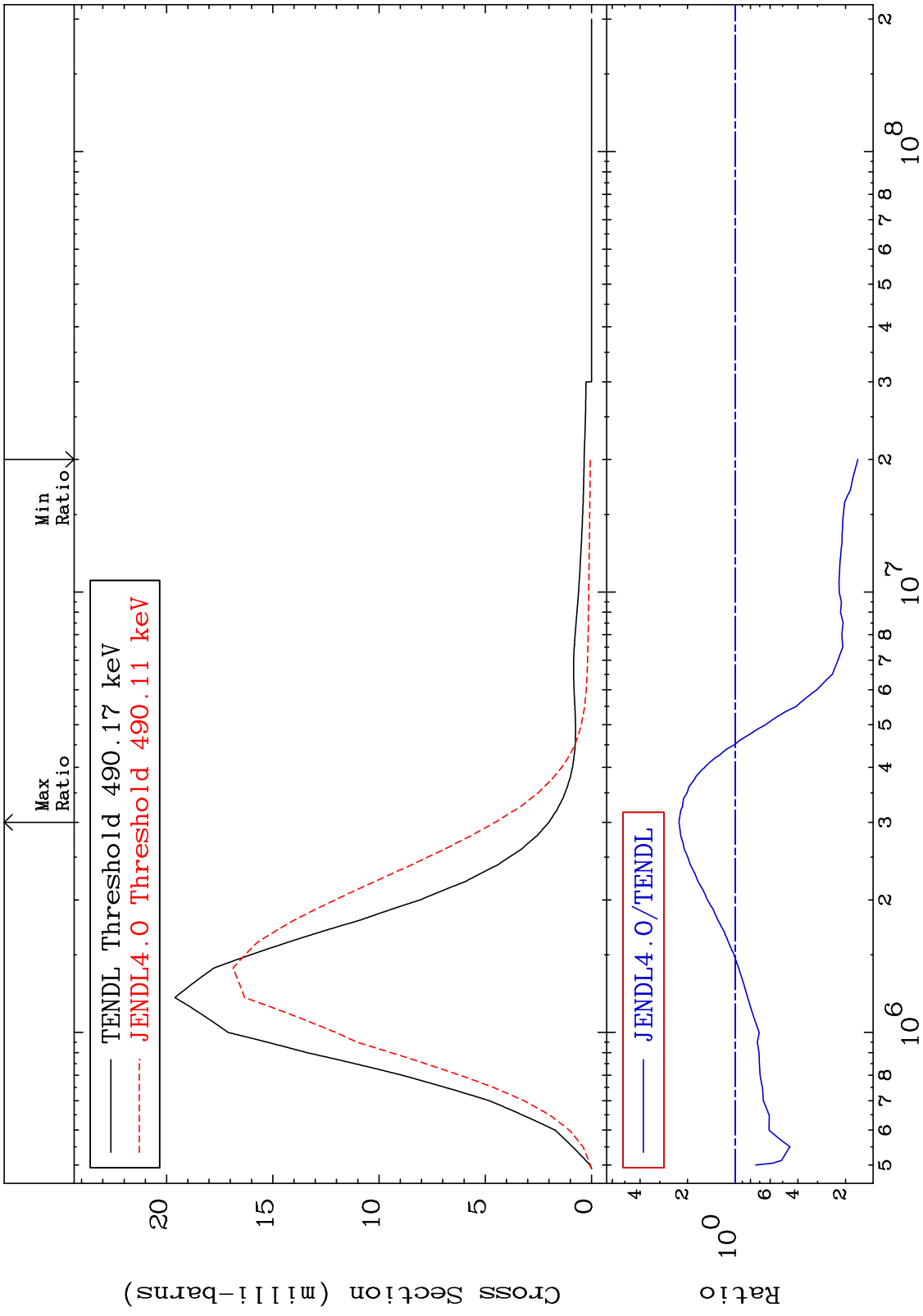


MAT 7034 MT= 62 (n,n') Level Cross Section 70-Yb-171
 -45.64 To 9999. %

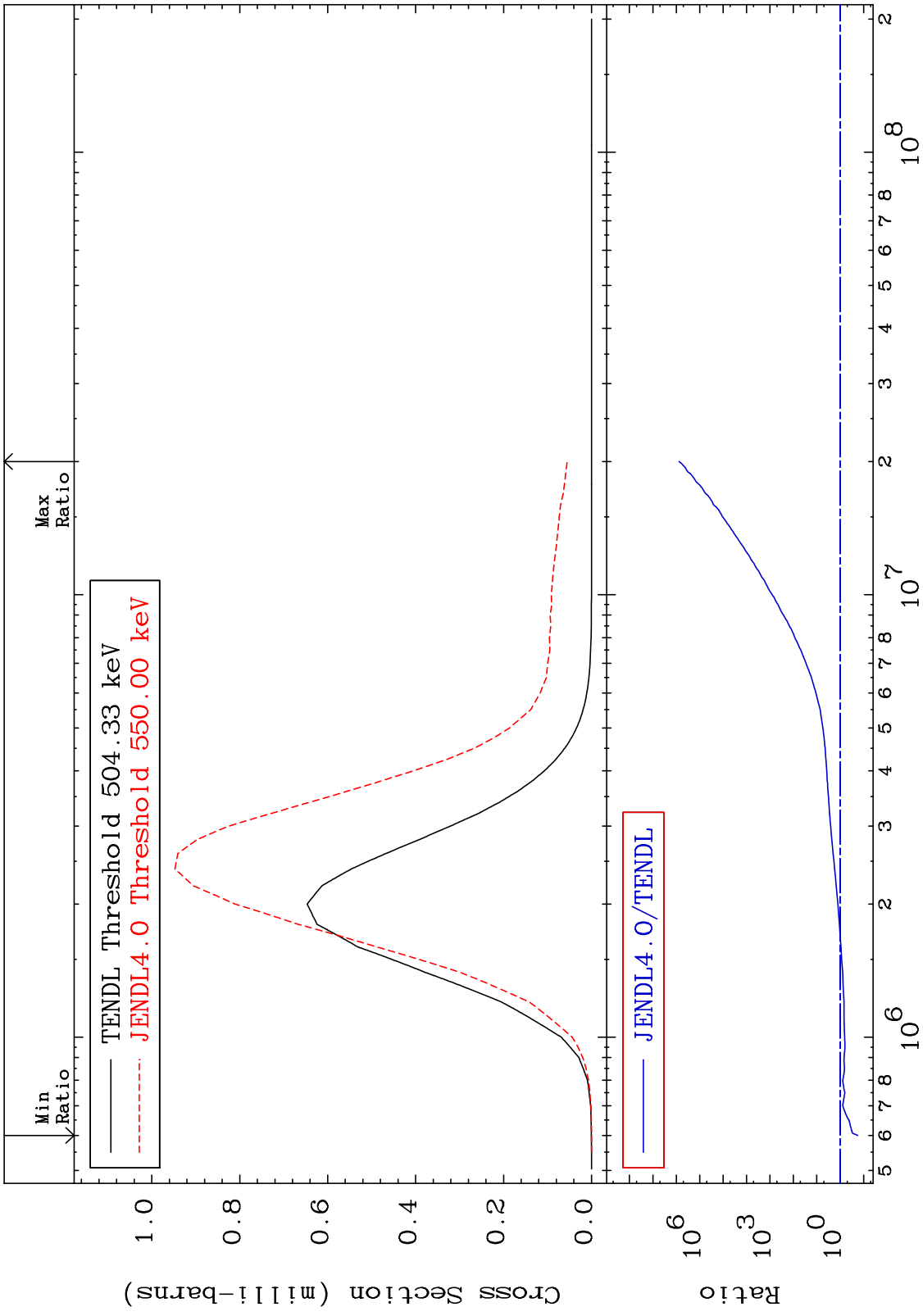


20 Incident Energy (eV) 70-Yb-171

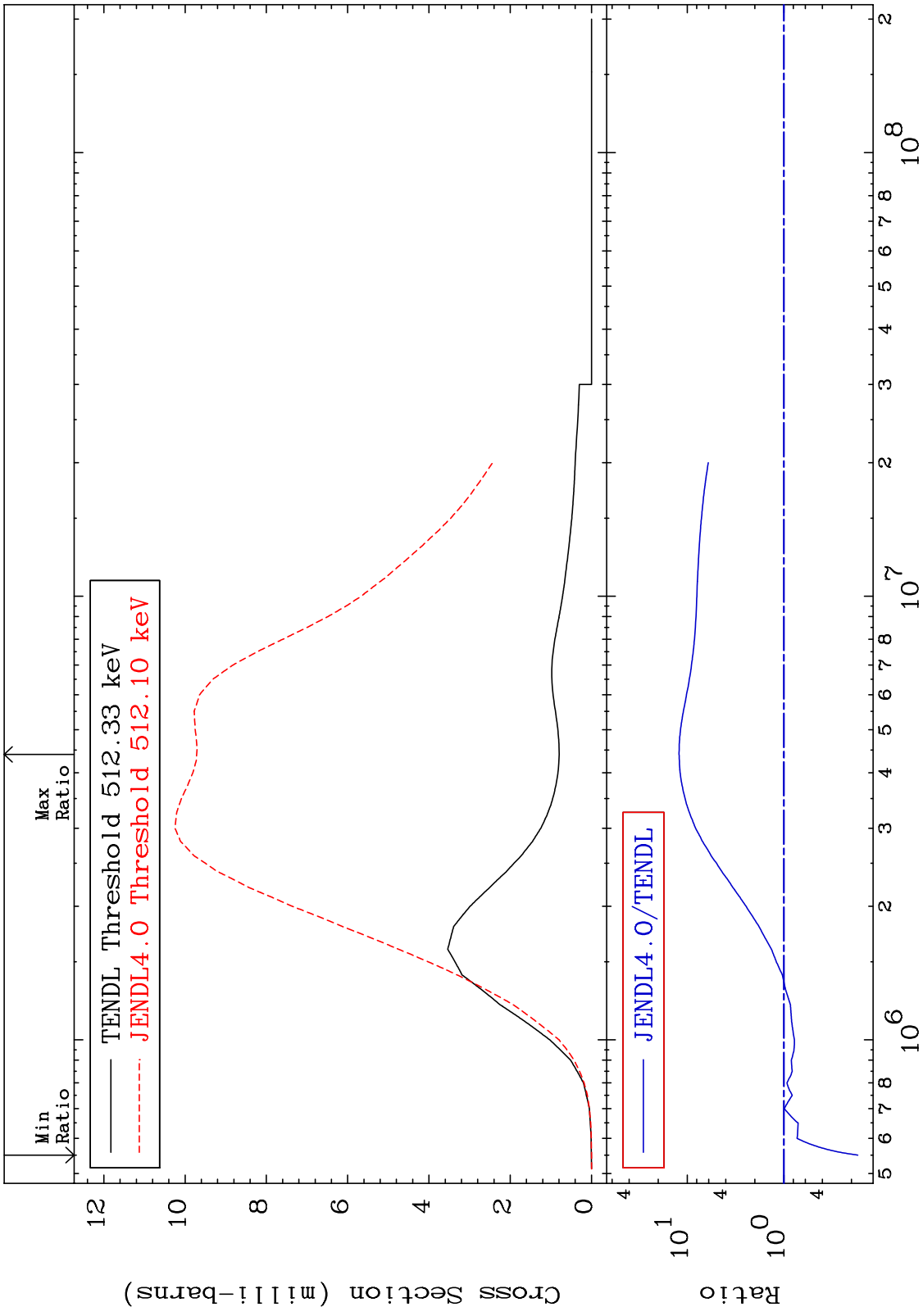
MAT 7034 MT= 63 (n,n') Level Cross Section 70-Yb-171
 -83.30 To 126.4 %



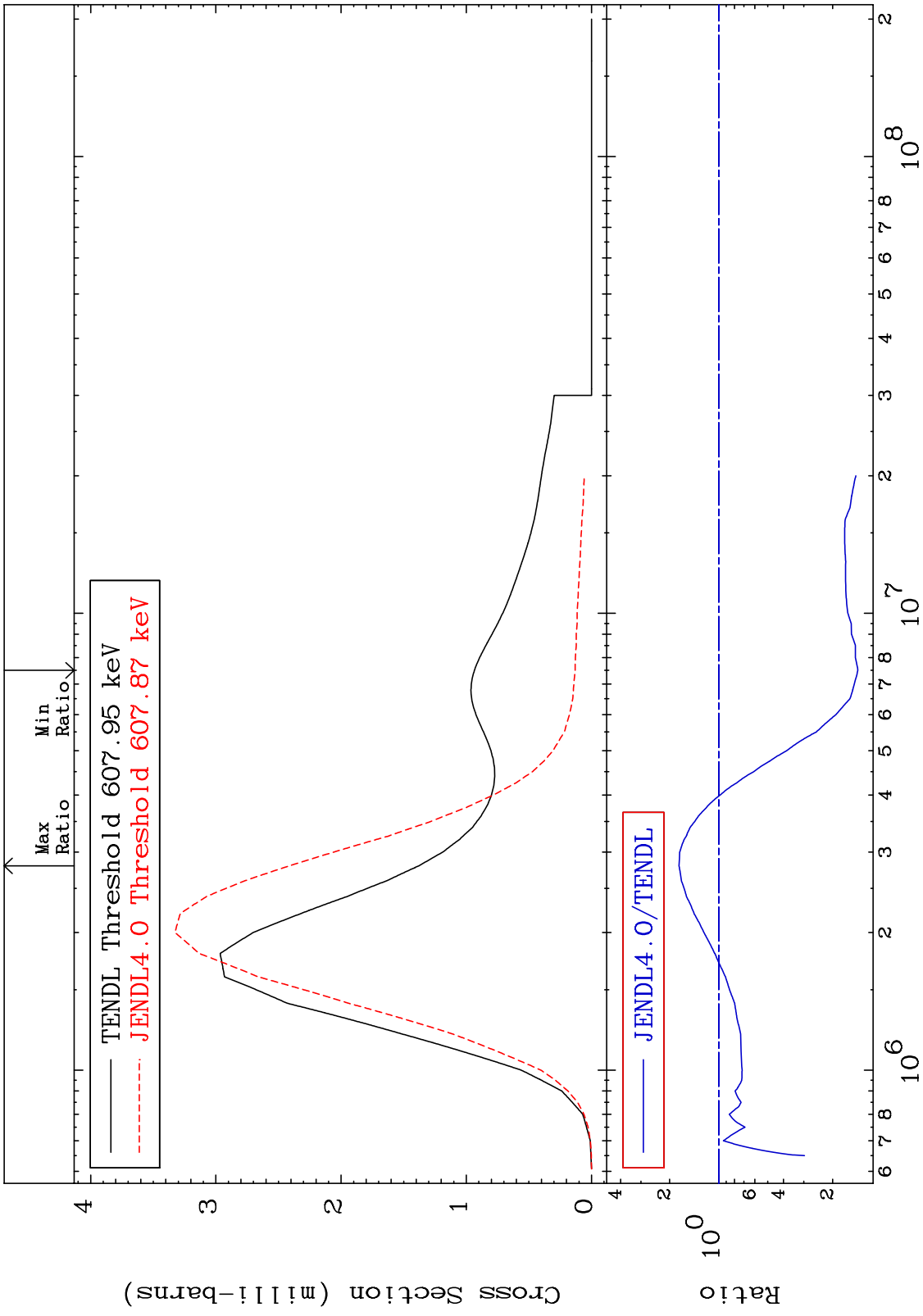
MAT 7034 MT= 64 (n,n') Level Cross Section 70-Yb-171
 -82.39 To 9999. %



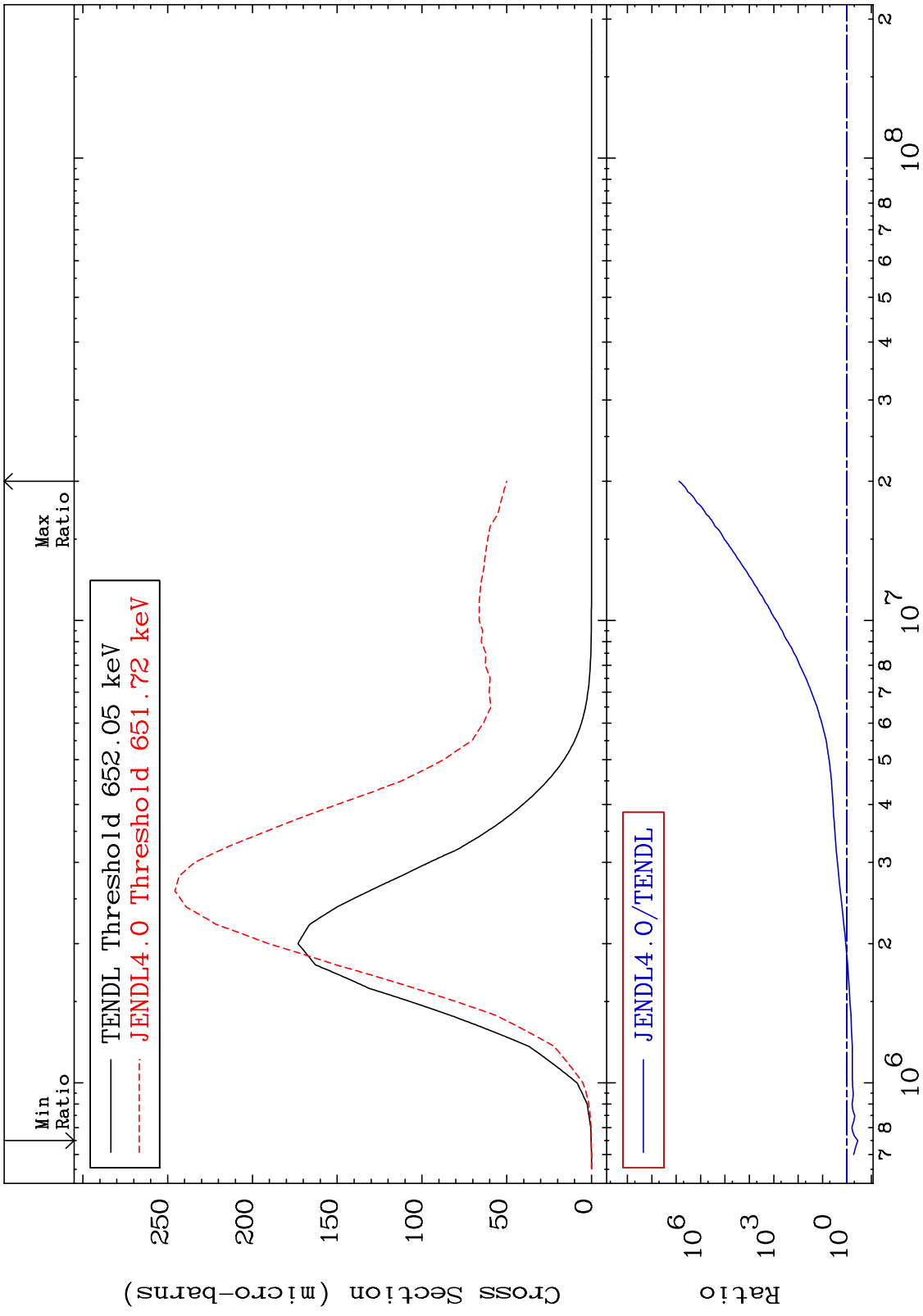
MAT 7034 MT= 65 (n,n') Level Cross Section 70-Yb-171 -82.87 To 1118. %



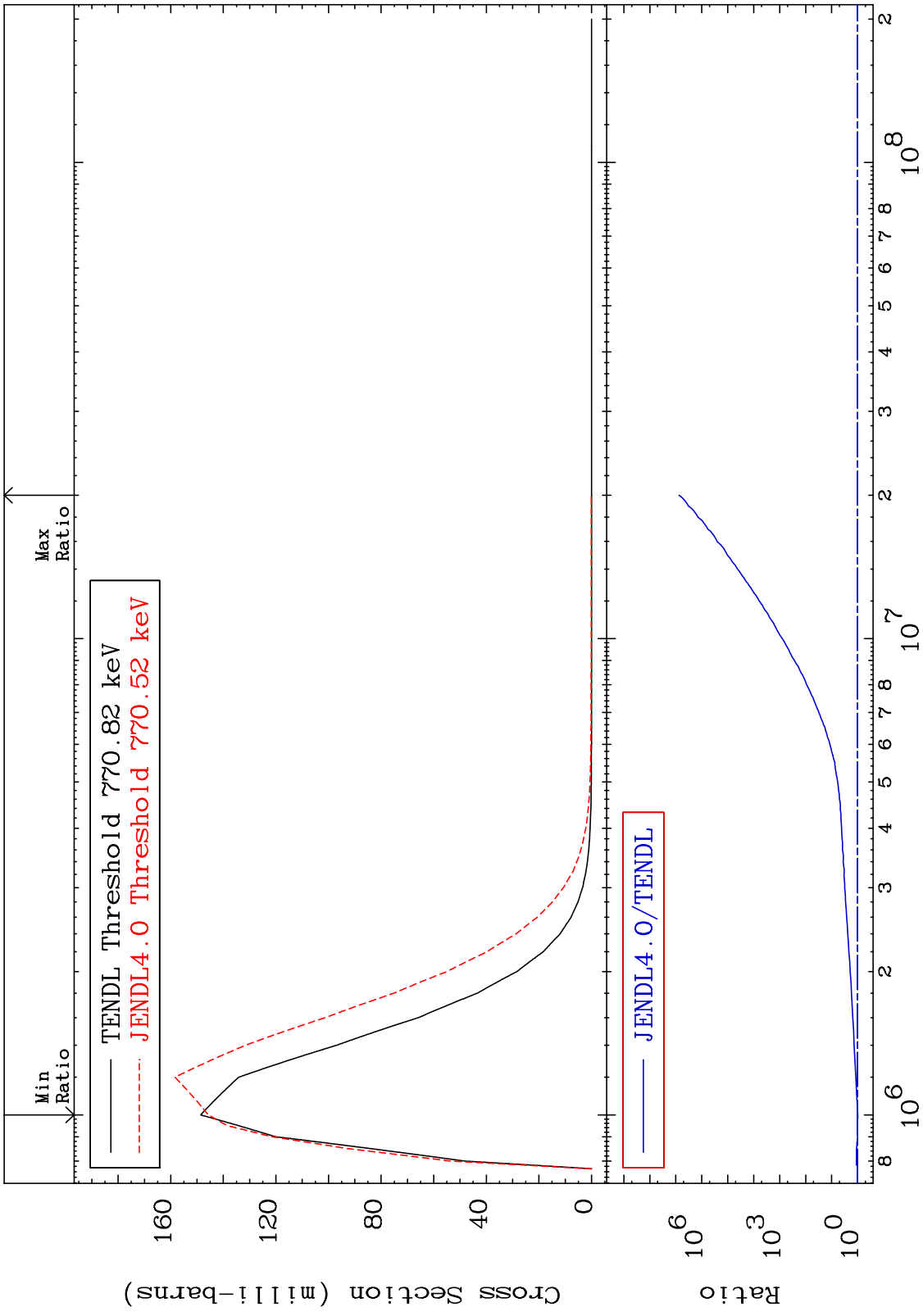
MAT 7034 MT= 66 (n,n') Level 70-Yb-171
 Cross Section -86.00 To 75.02 %



MAT 7034 MT= 67 (n,n') Level Cross Section 70-Yb-171
 -64.49 To 9999. %

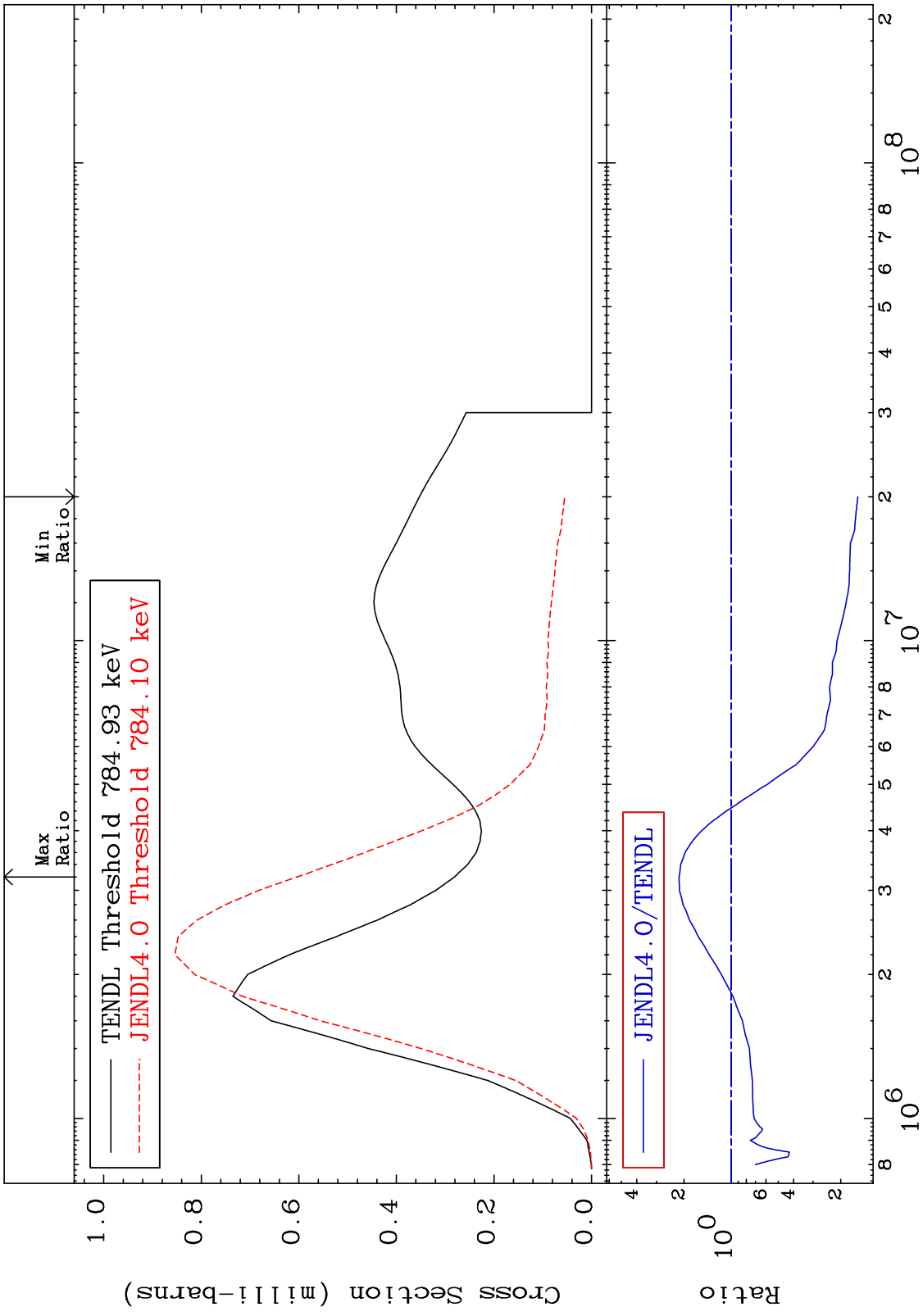


MAT 7034 MT= 68 (n,n') Level Cross Section 70-Yb-171
 -1.976 To 9999. %

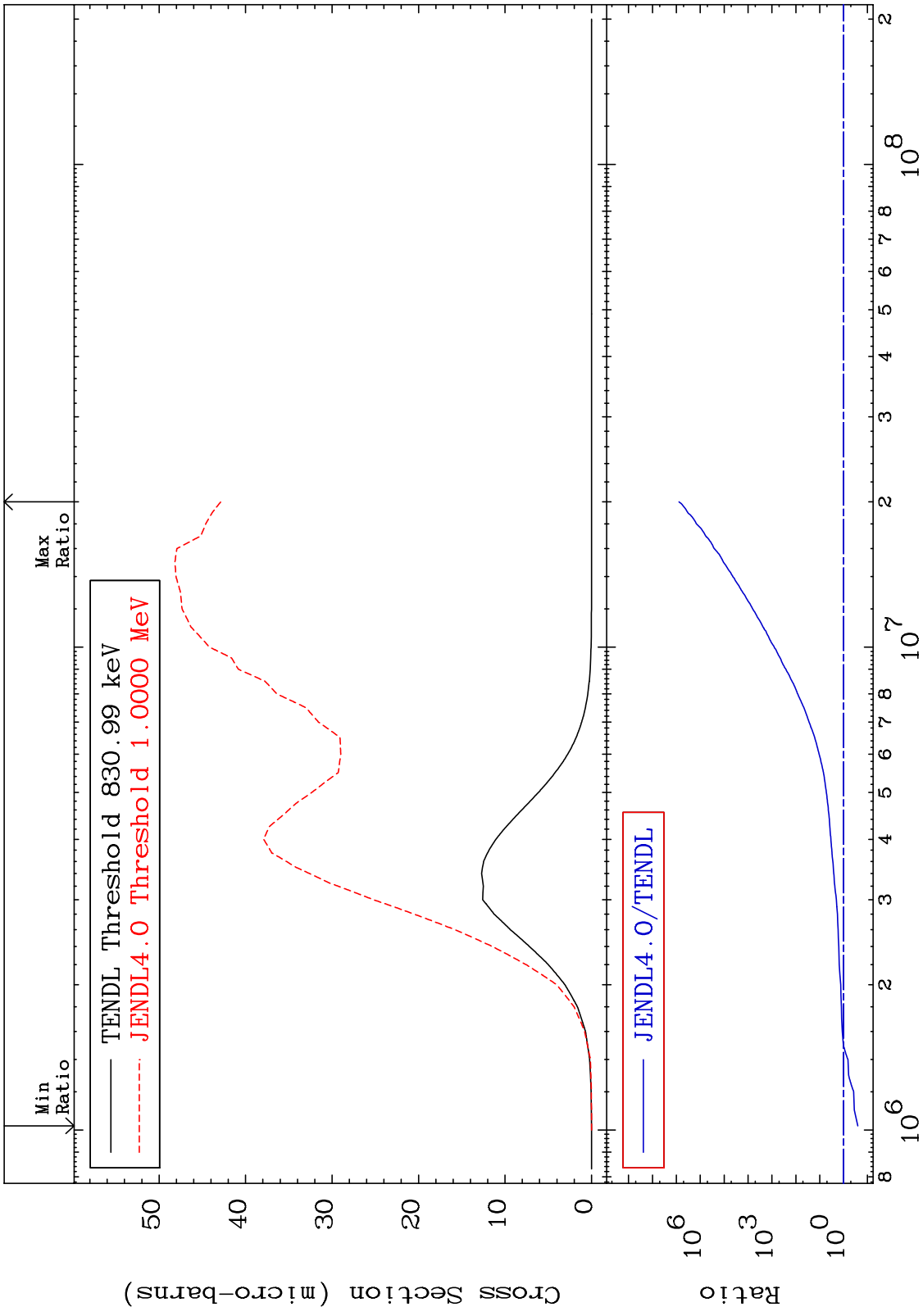


Incident Energy (eV) 70-Yb-171

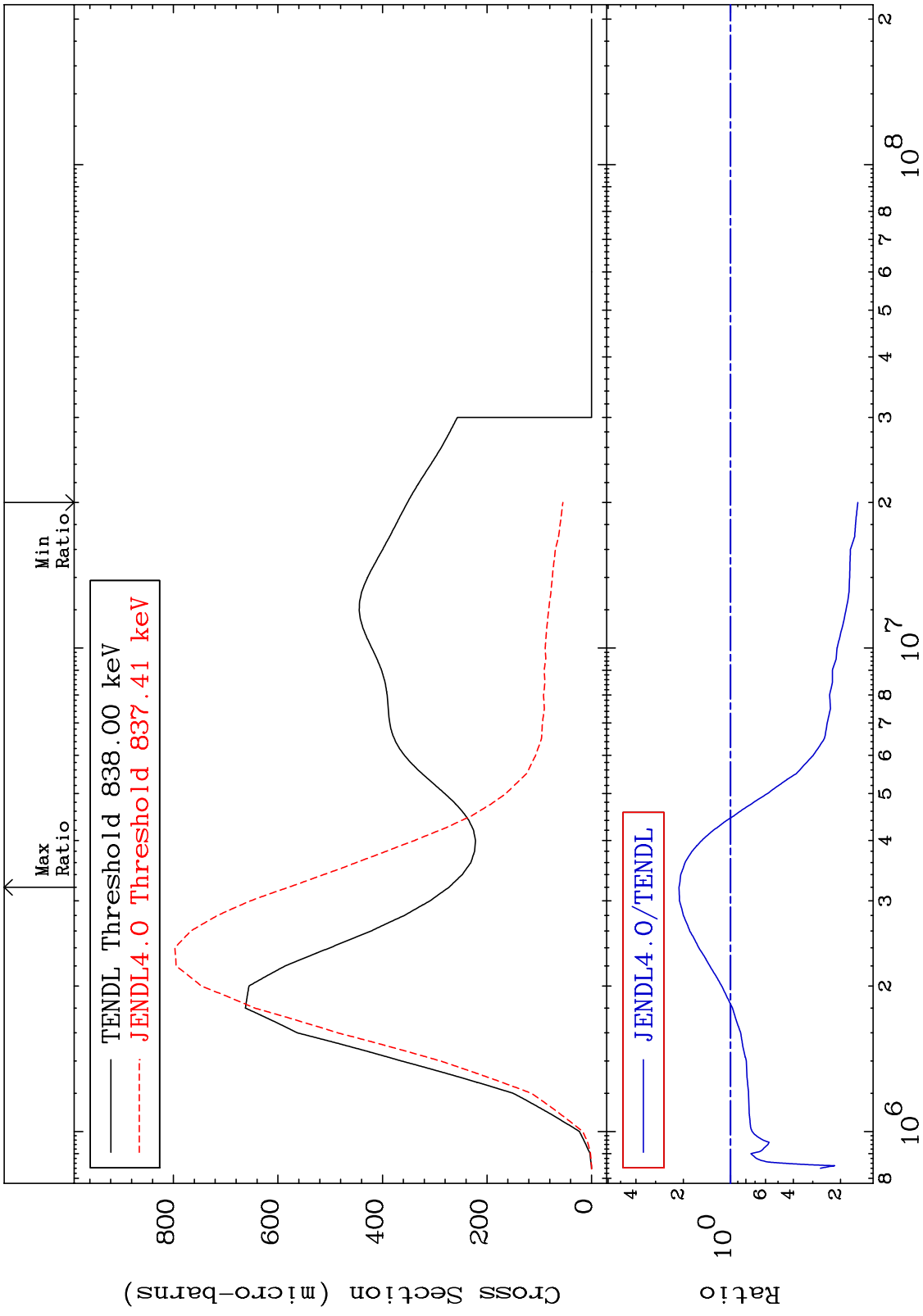
MAT 7034 MT= 69 (n,n') Level Cross Section 70-Yb-171 -84.47 To 114.9 %



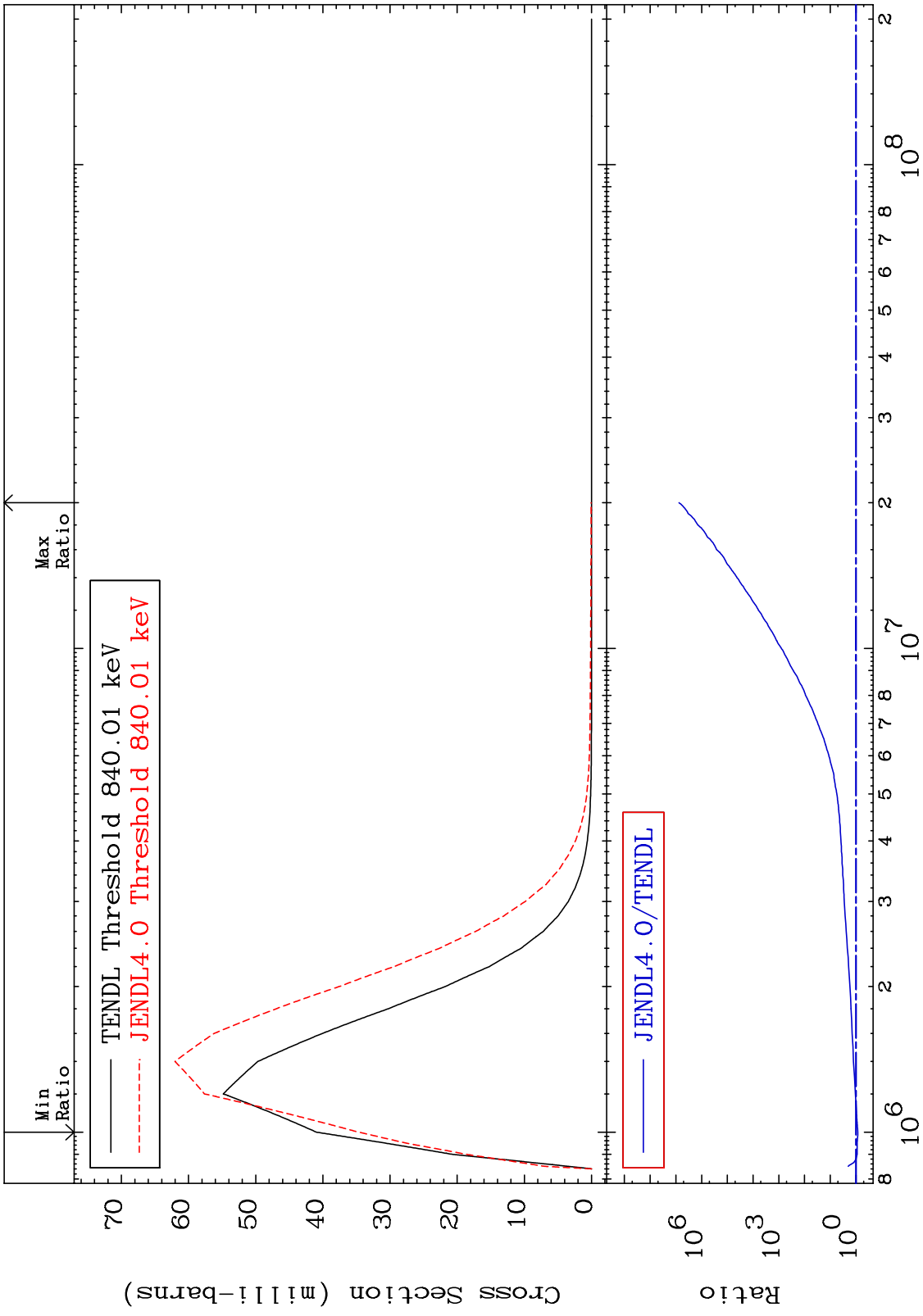
MAT 7034 MT= 70 (n,n') Level Cross Section 70-Yb-171
 -74.60 To 9999. %



MAT 7034 MT= 71 (n,n') Level Cross Section 70-Yb-171
 -84.47 To 112.7 %

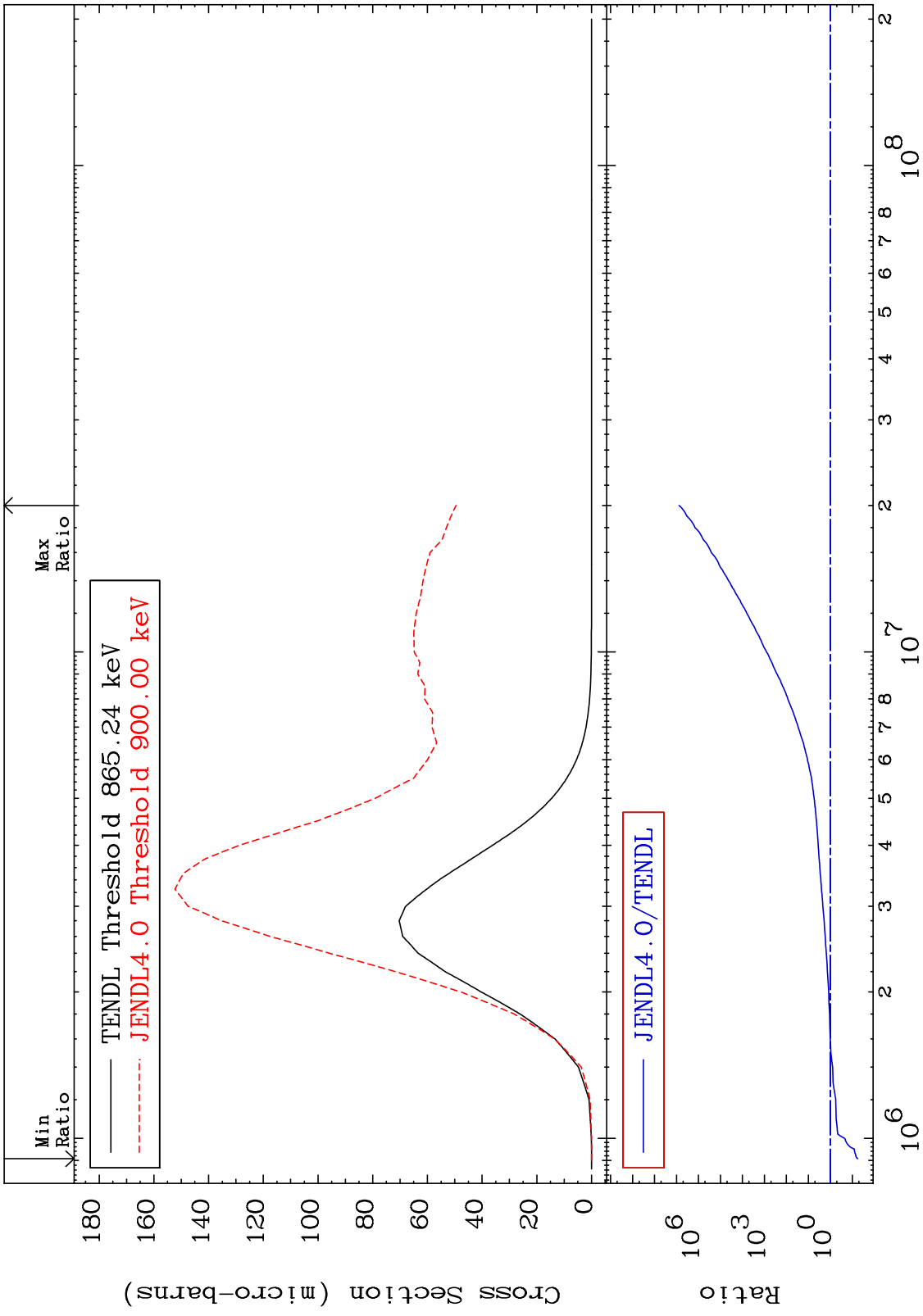


MAT 7034 MT= 72 (n,n') Level Cross Section 70-Yb-171 -15.35 To 9999. %

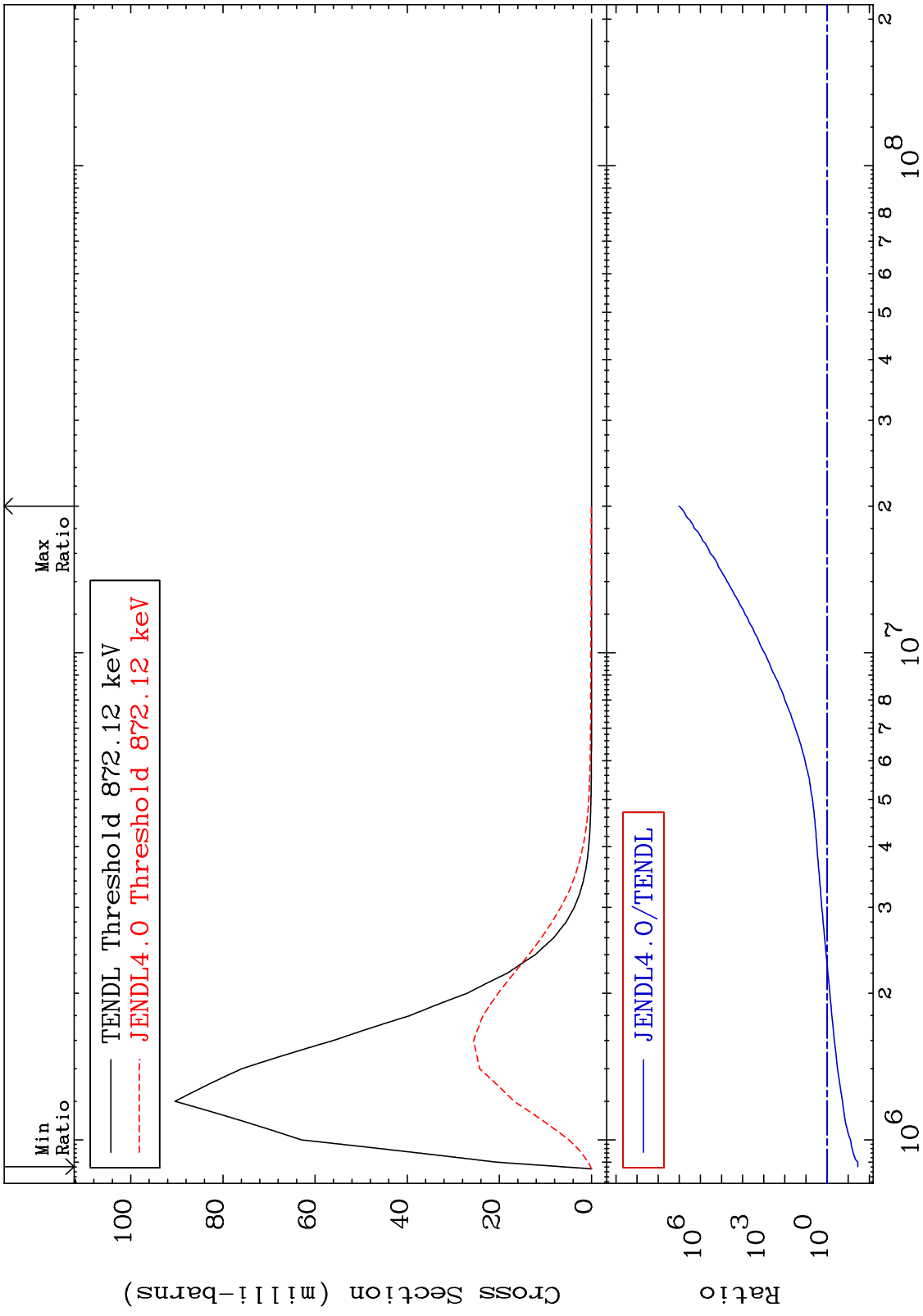


30 Incident Energy (eV) 70-Yb-171

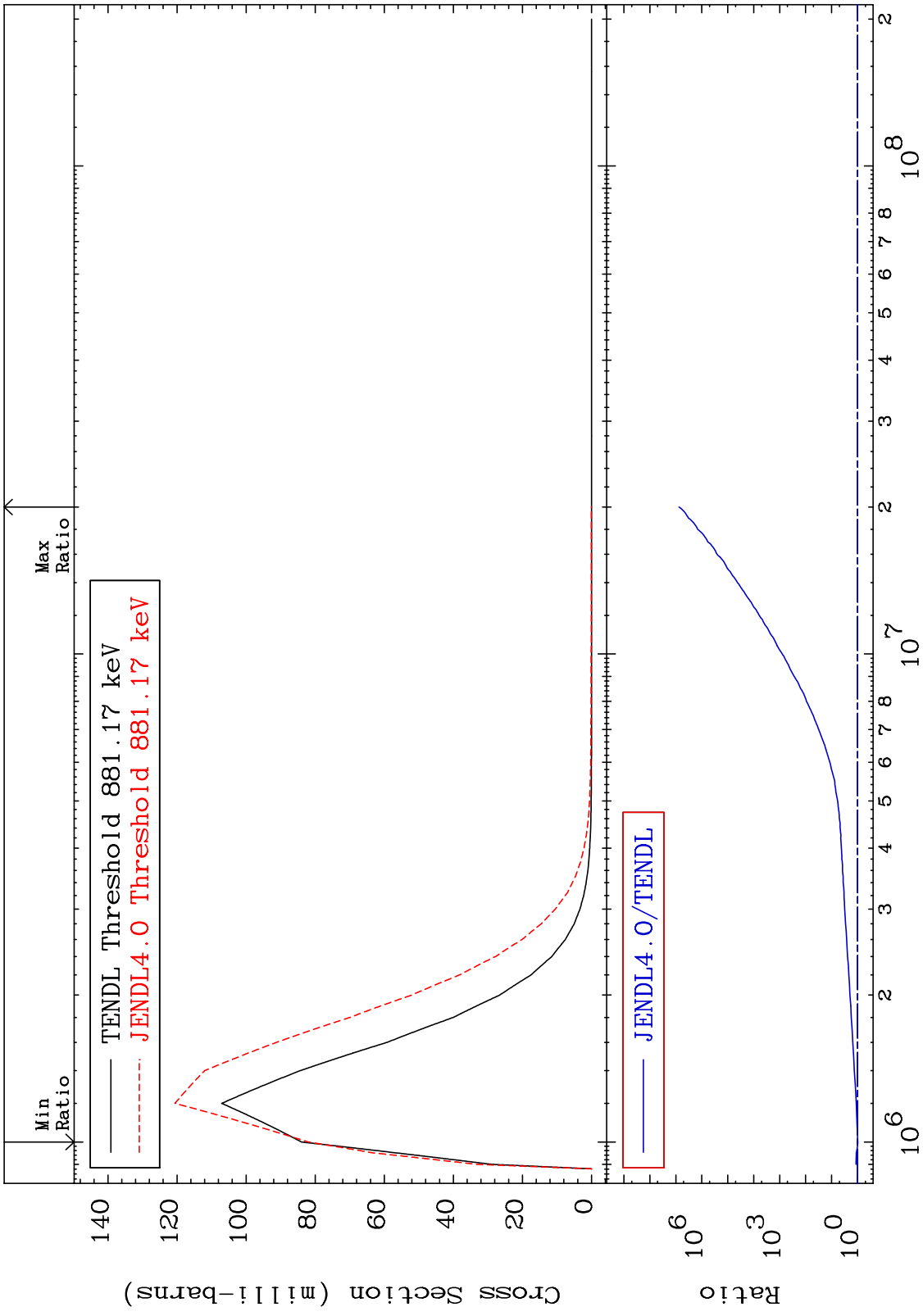
MAT 7034 MT= 73 (n,n') Level Cross Section 70-Yb-171
 -94.43 To 9999. %



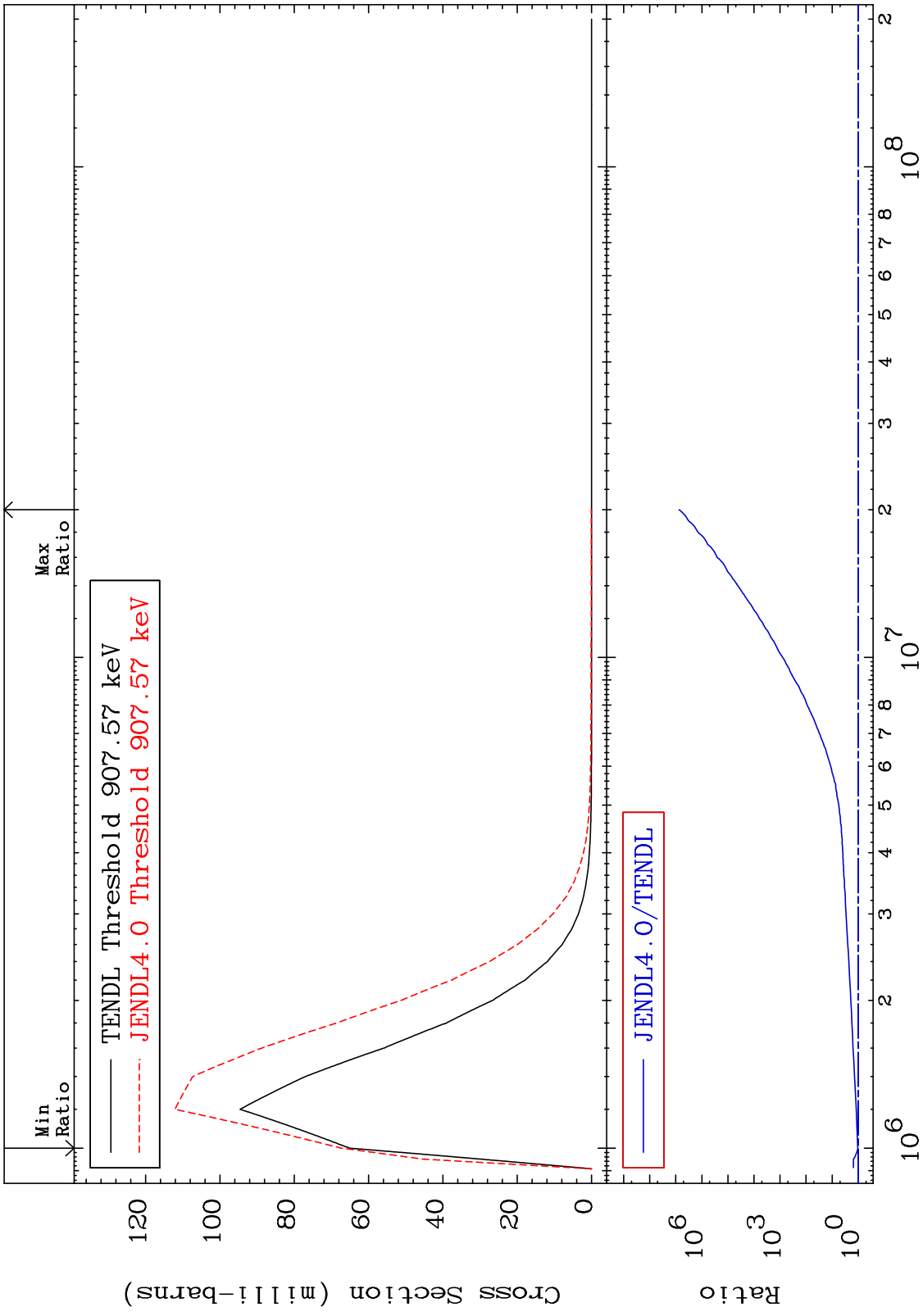
MAT 7034 MT= 74 (n,n') Level Cross Section 70-Yb-171
 -96.50 To 9999. %



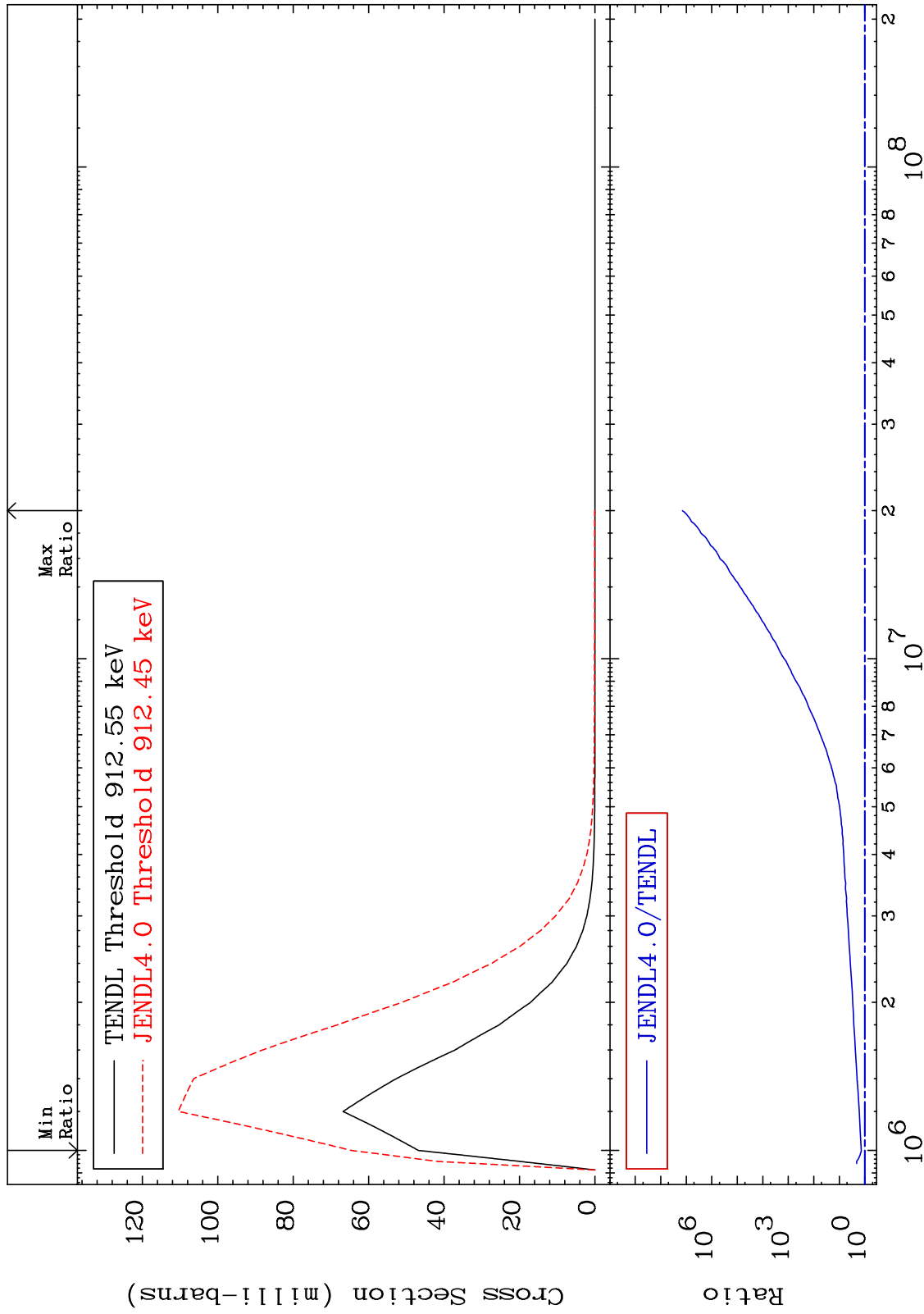
MAT 7034 MT= 75 (n,n') Level Cross Section 70-Yb-171
 -2.357 To 9999. %



MAT 7034 MT= 76 (n,n') Level Cross Section 3.369 To 9999. % 70-Yb-171

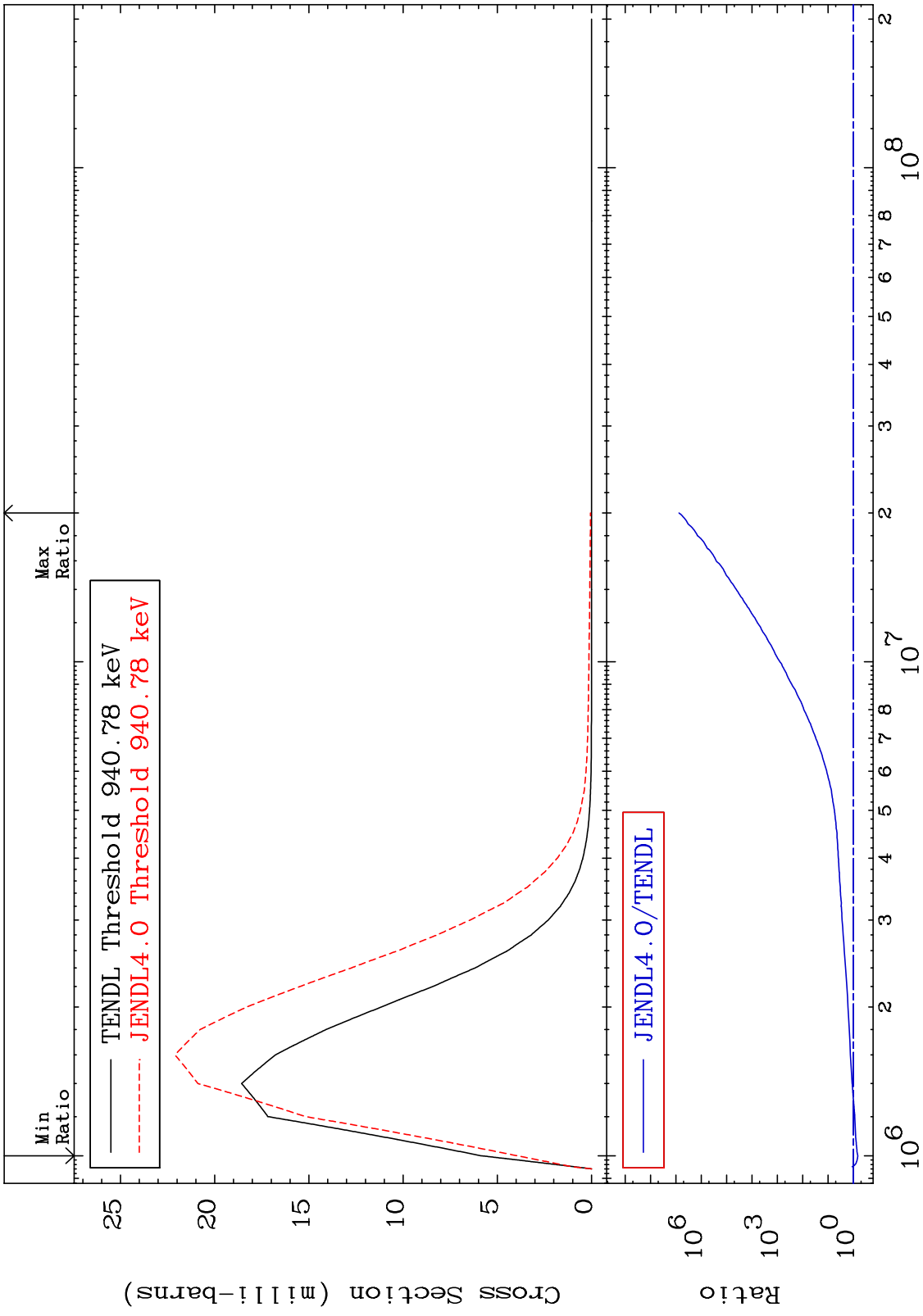


MAT 7034 MT= 77 (n,n') Level Cross Section 70-Yb-171 To 9999. %
37.87



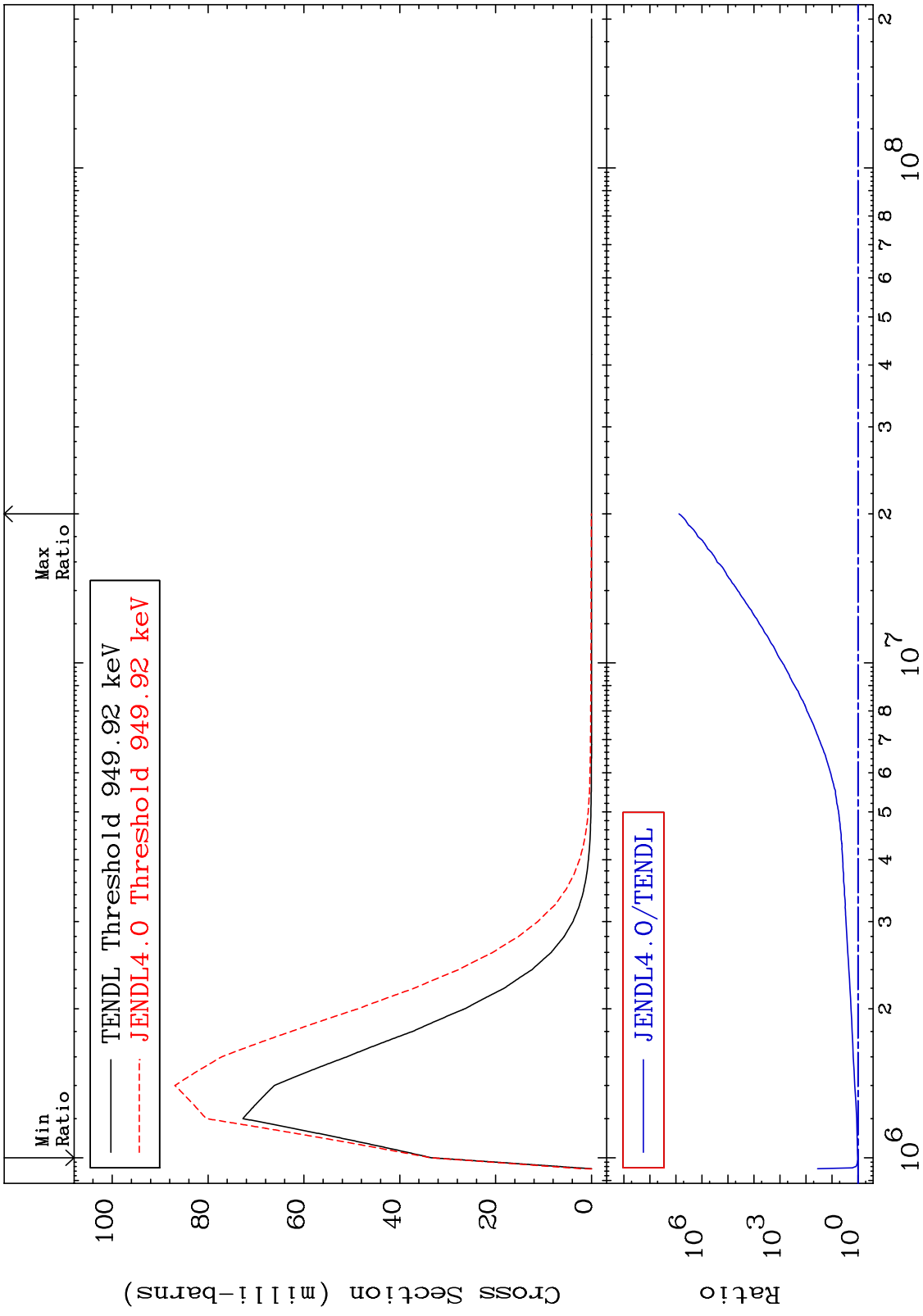
35 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 78 (n,n') Level Cross Section 70-Yb-171 -32.68 To 9999. %



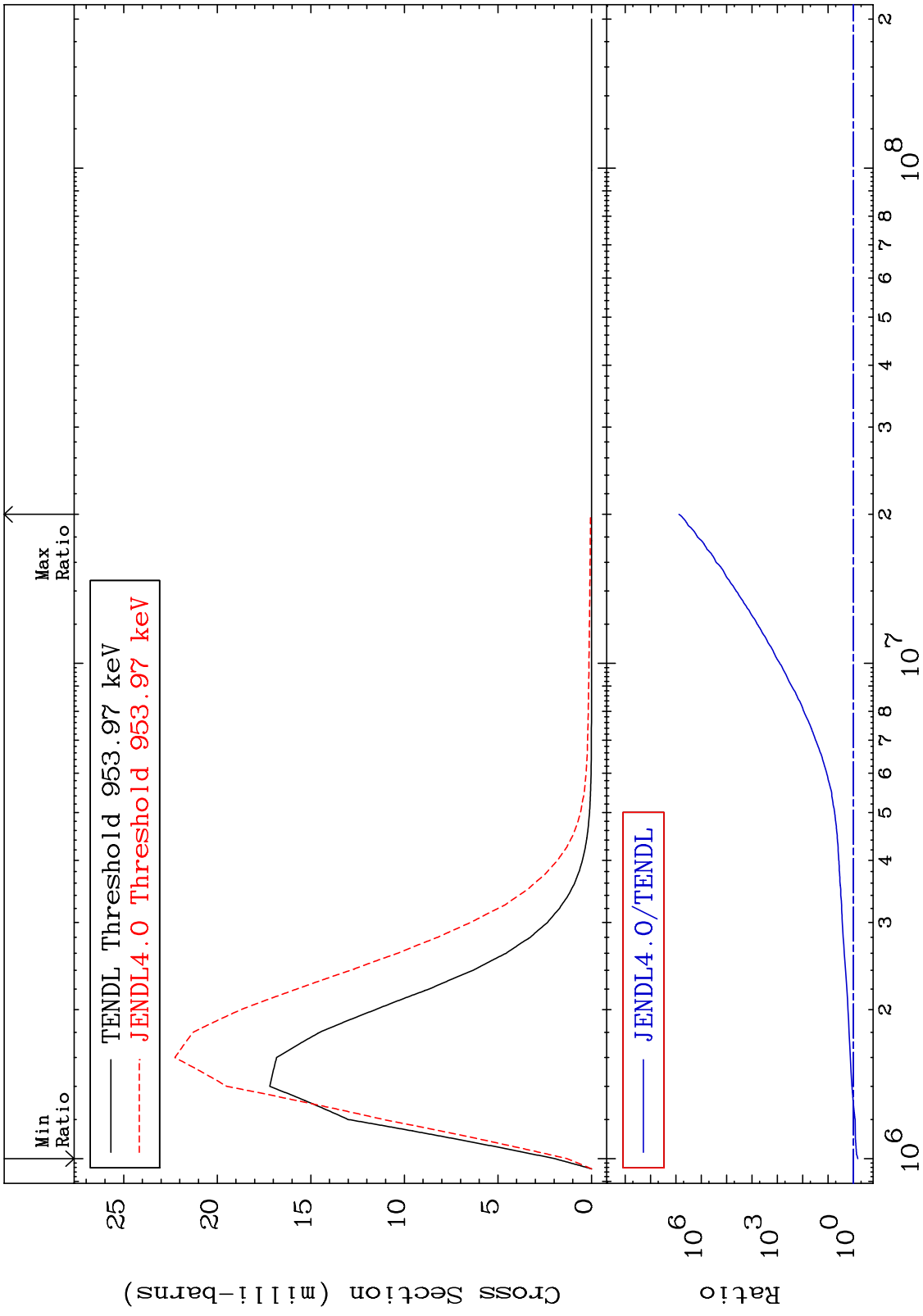
36 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 79 (n,n') Level Cross Section 70-Yb-171 To 9999. %
0.635



37 Incident Energy (eV) 70-Yb-171

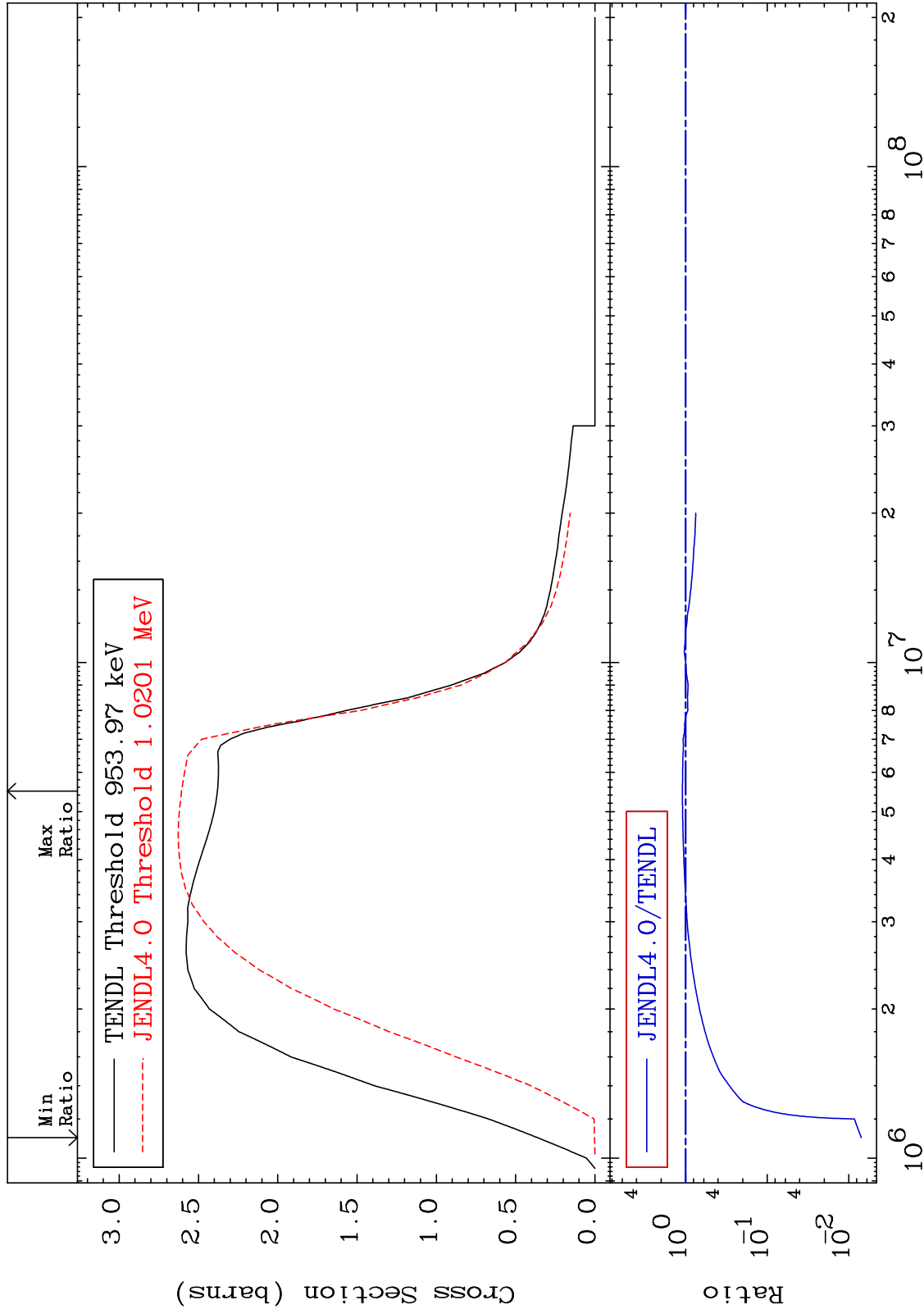
MAT 7034 MT= 80 (n,n') Level Cross Section 70-Yb-171
 -33.50 To 9999. %



MAT 7034

(n, n') Continuum
Cross Section

70-Yb-171
-99.30 To 9.499 %



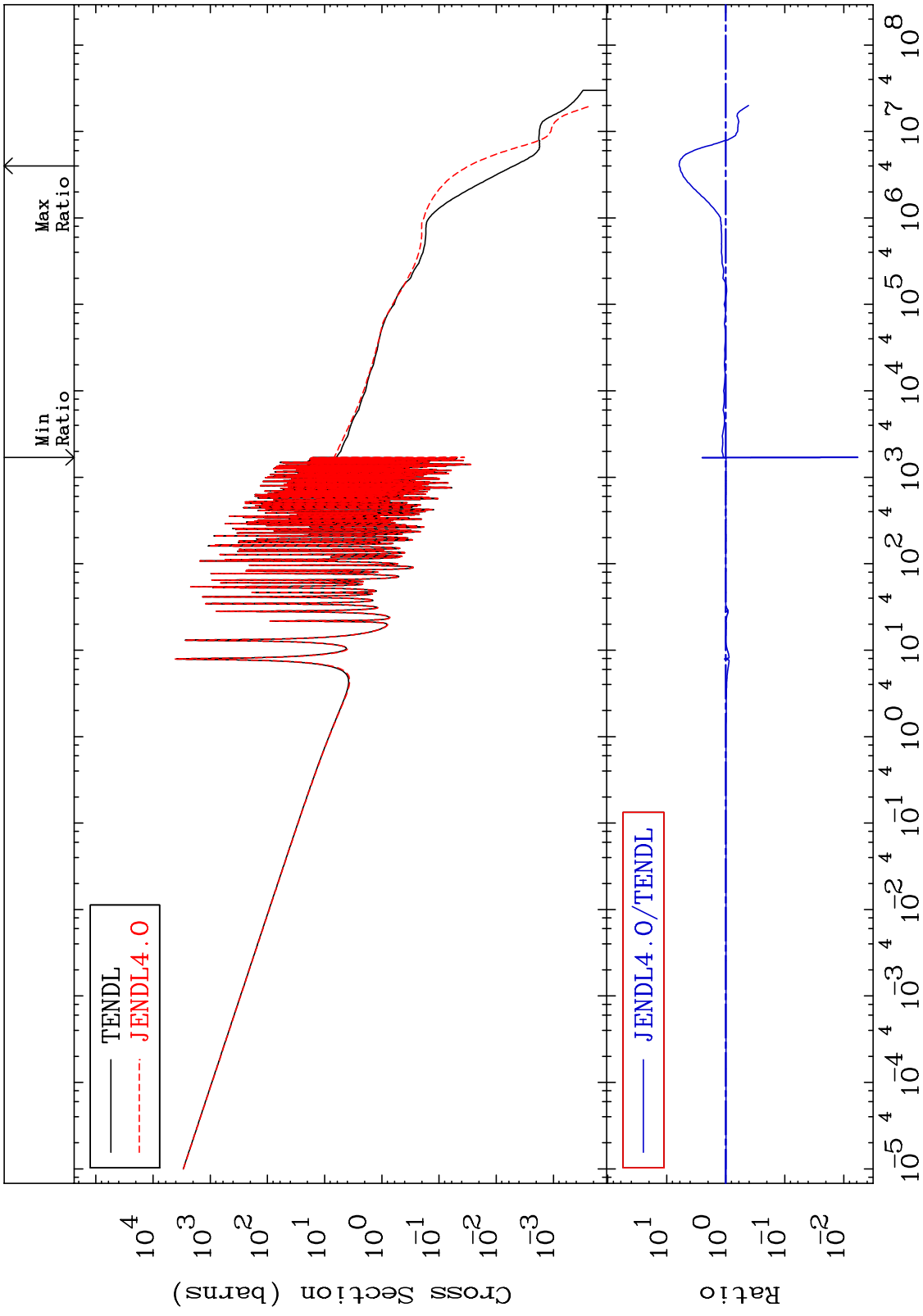
MAT 7034

(n, γ)

70-Yb-171

Cross Section

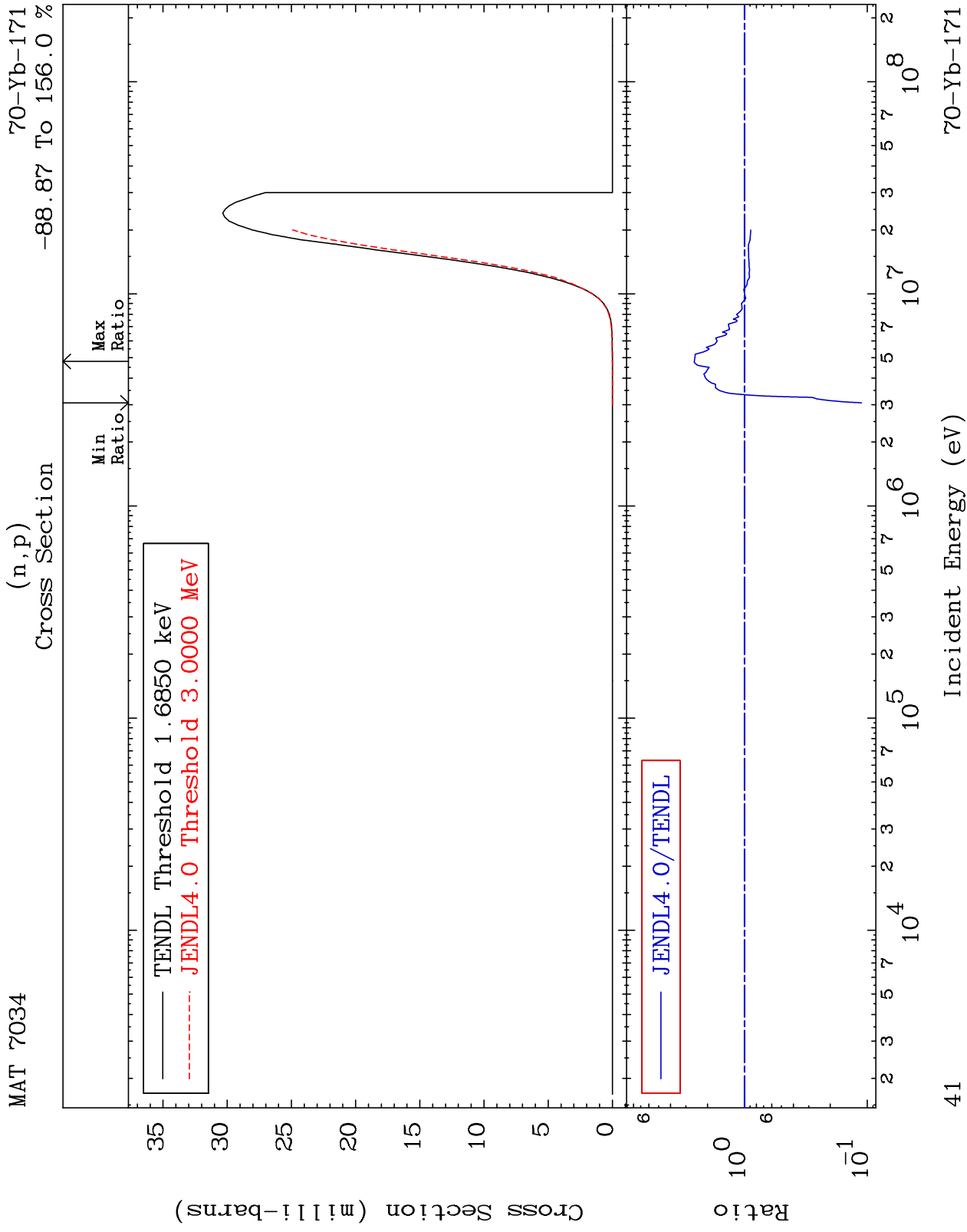
-99.42 To 518.8 %



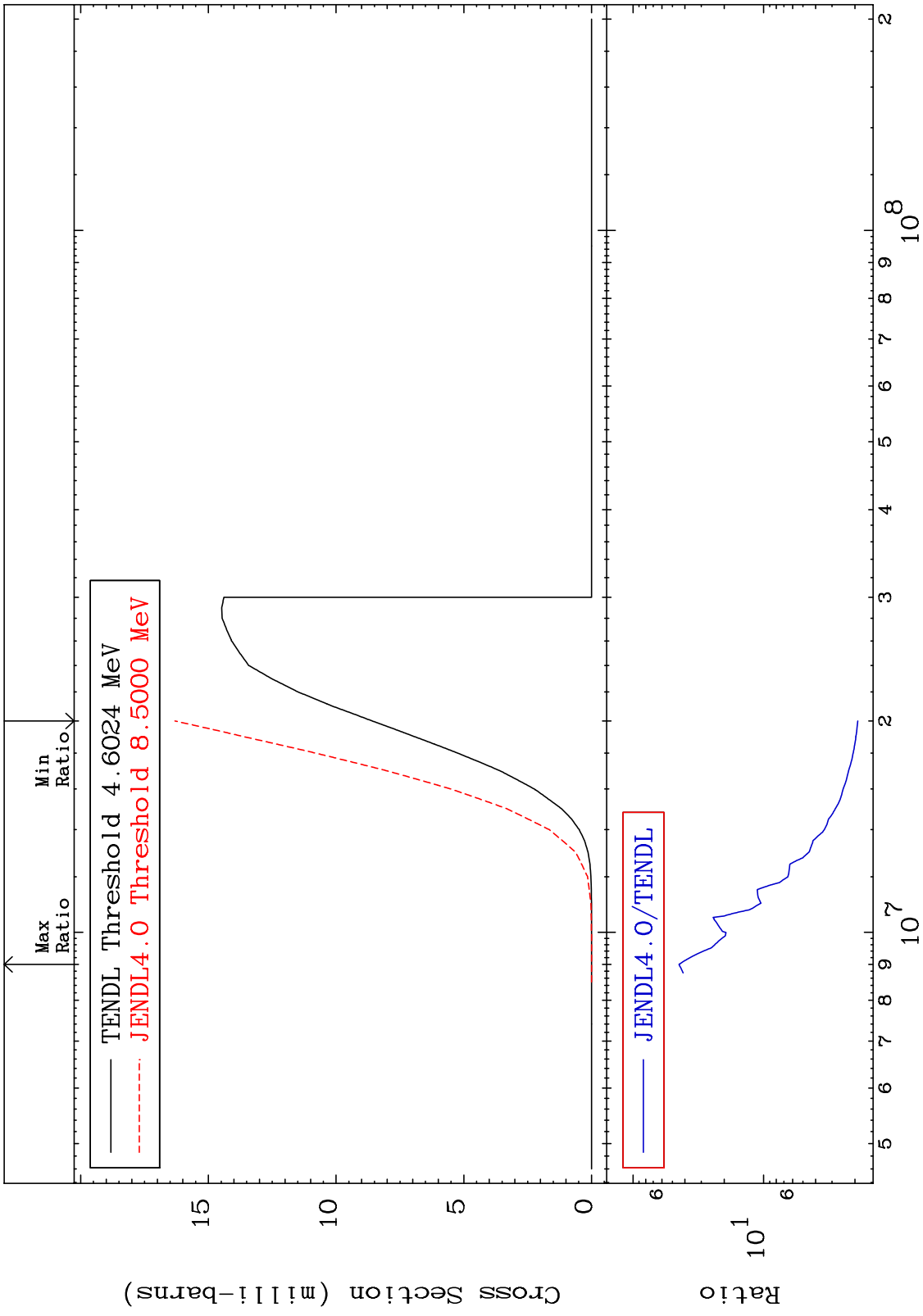
40

Incident Energy (eV)

70-Yb-171



MAT 7034 (n,d) Cross Section 70-Yb-171
 89.96 To 4341. %



42 70-Yb-171

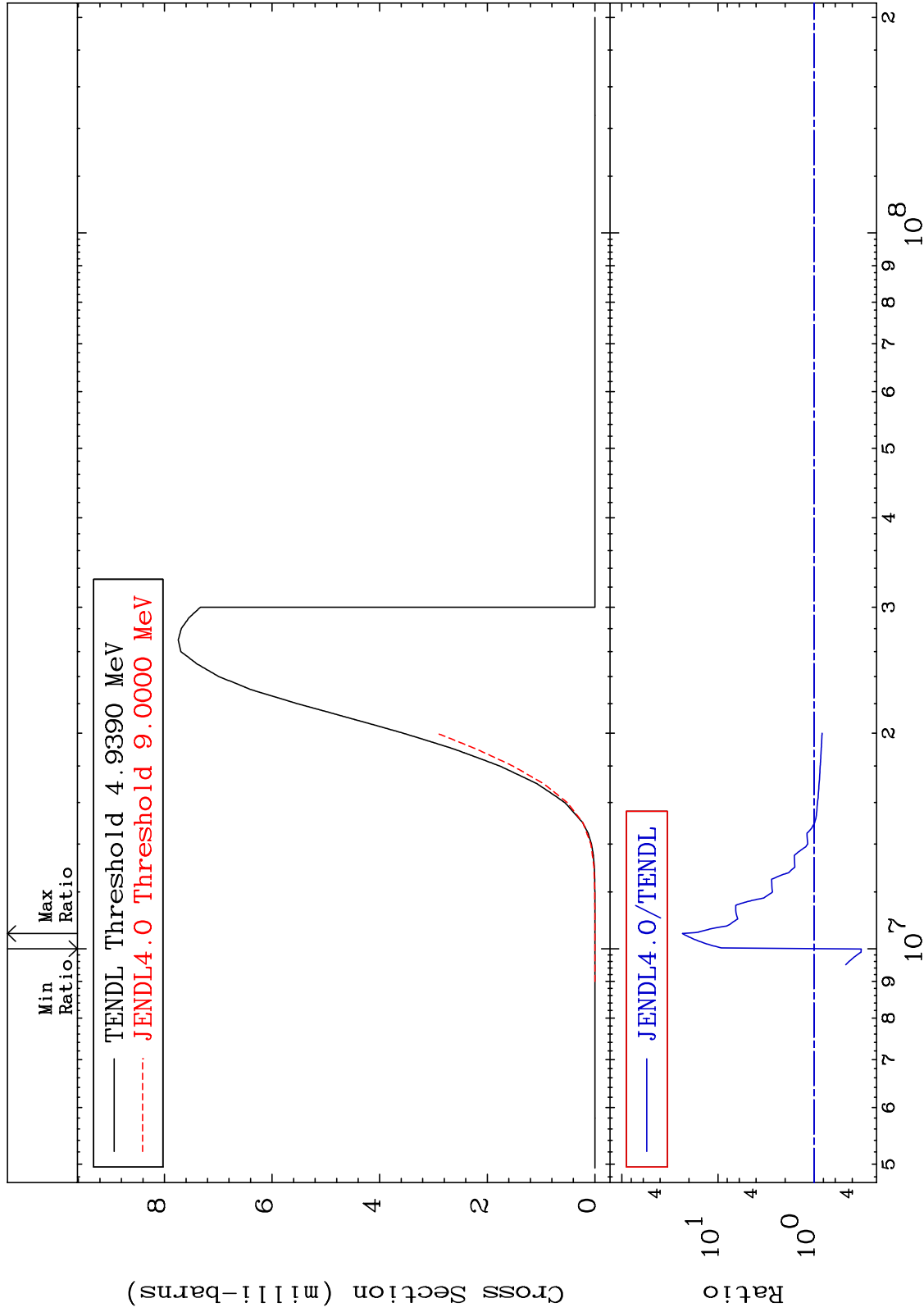
MAT 7034

(n, t)

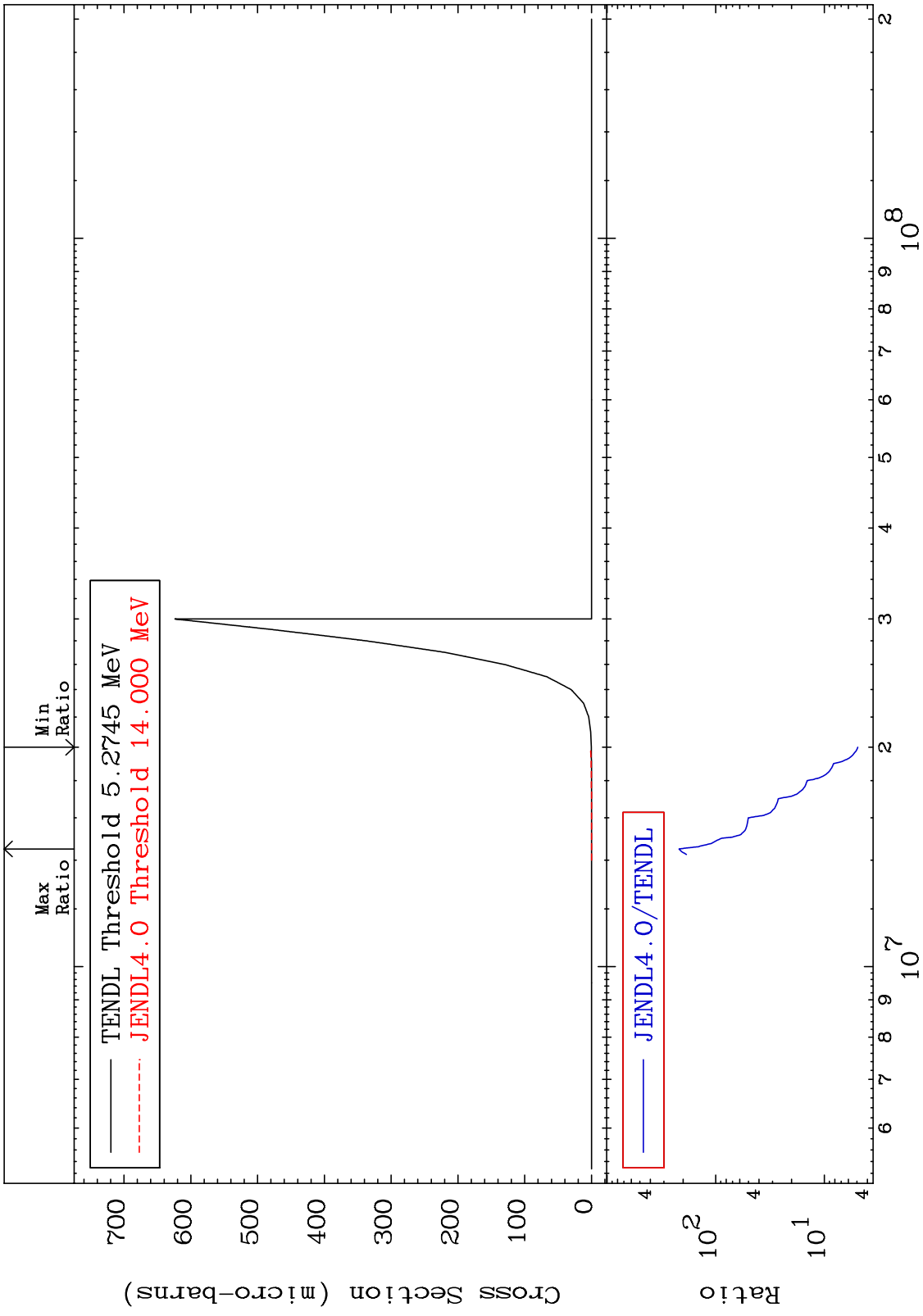
70-Yb-171

Cross Section

-67.82 To 2243. %



MAT 7034 (n, He-3) 70-Yb-171
 Cross Section 391.0 To 9999. %



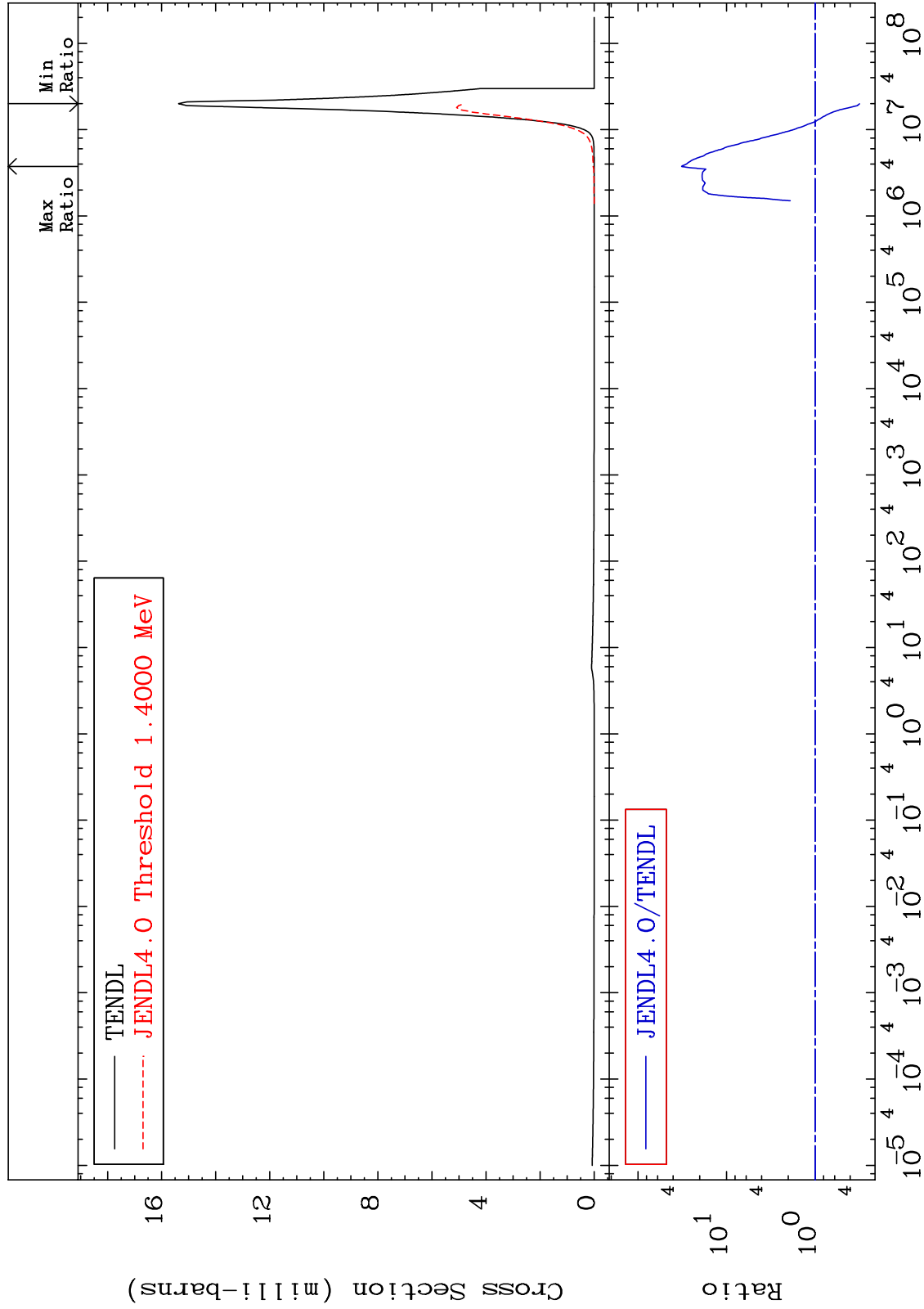
MAT 7034

(n, α)

70-Yb-171

Cross Section

-68.84 To 3123. %



45

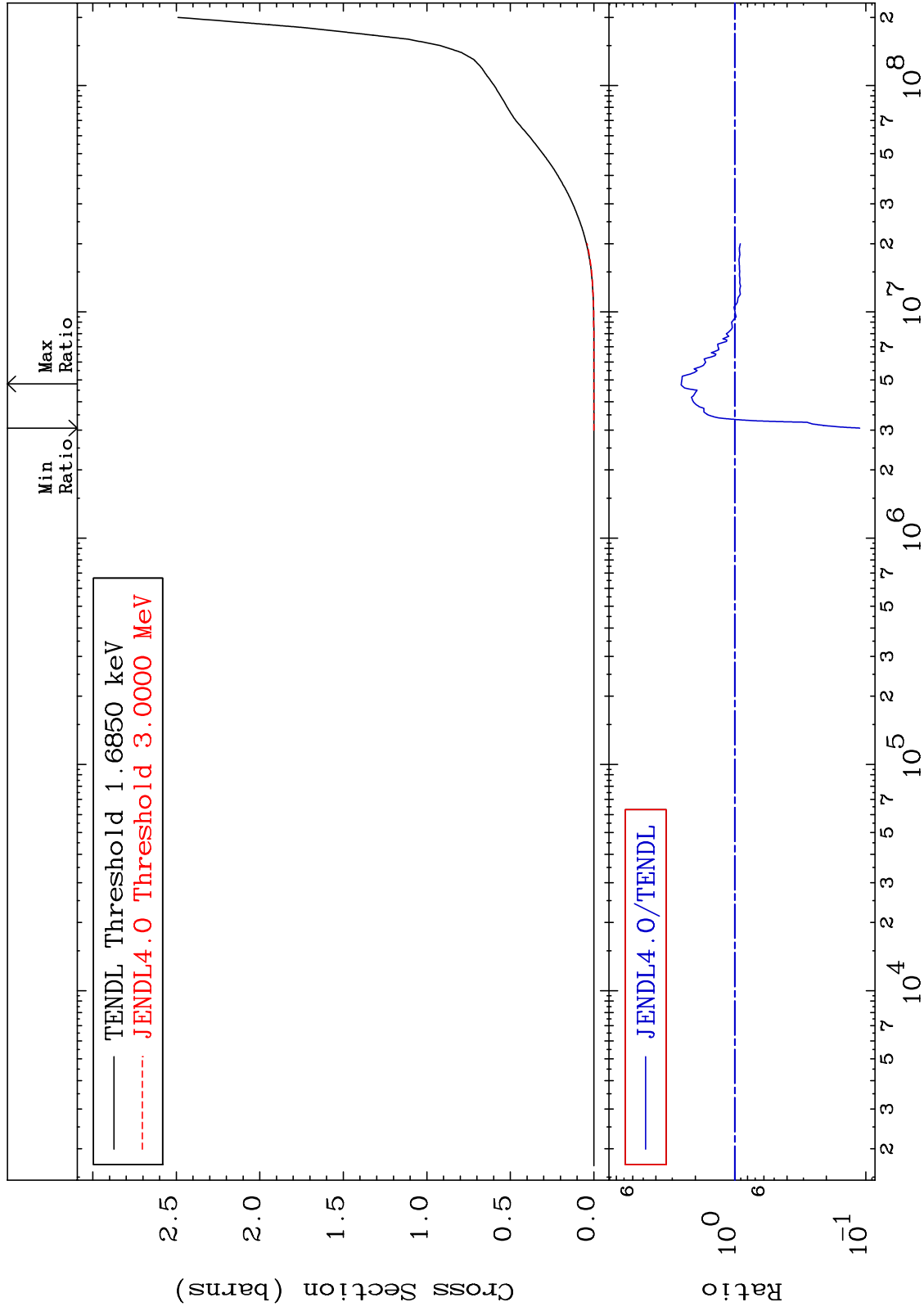
Incident Energy (eV)

70-Yb-171

MAT 7034

Hydrogen Production
Cross Section

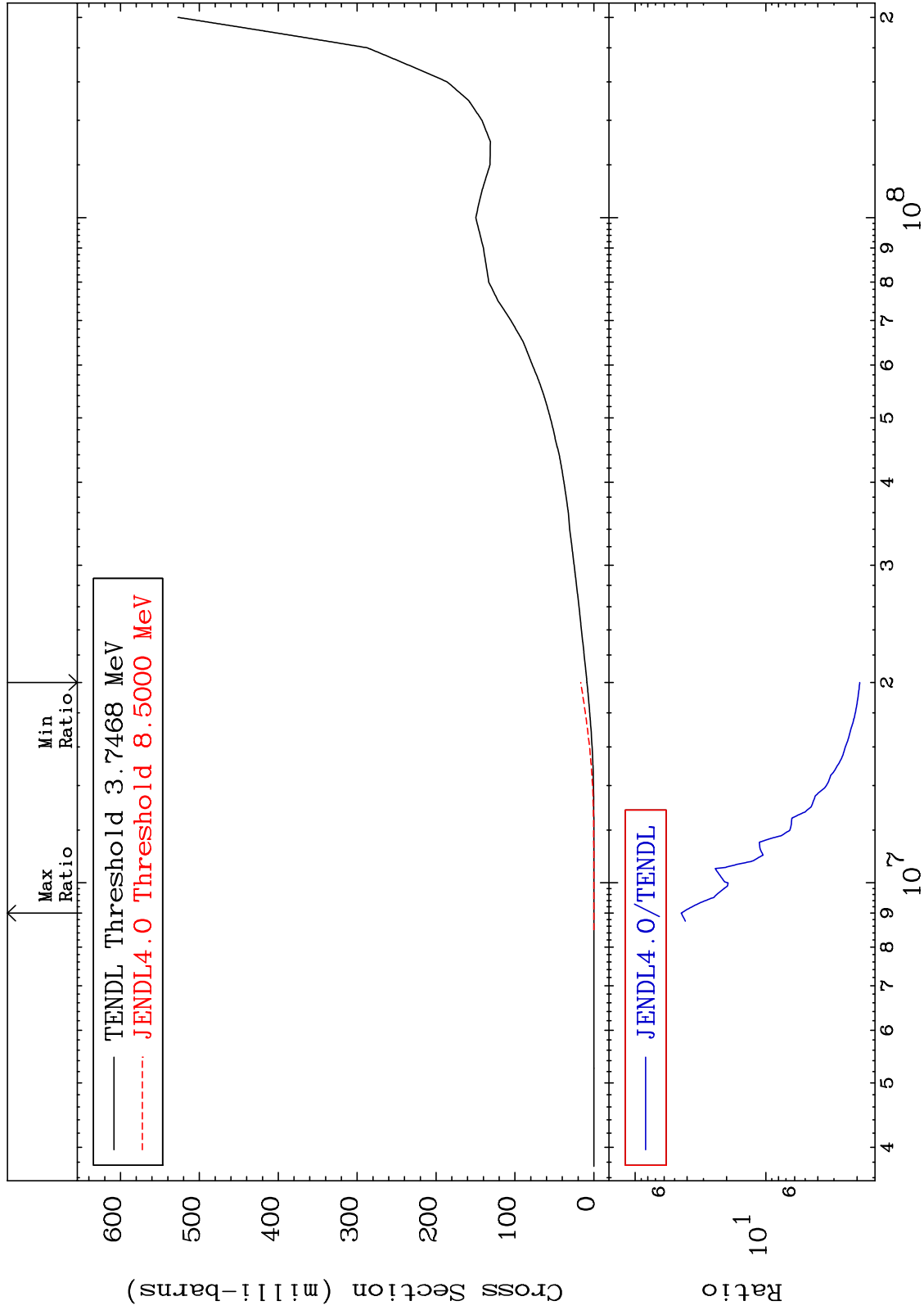
70-Yb-171
-88.87 To 156.0 %



MAT 7034

Deuterium Production
Cross Section

70-Yb-171
To 4341. %
90.65



47

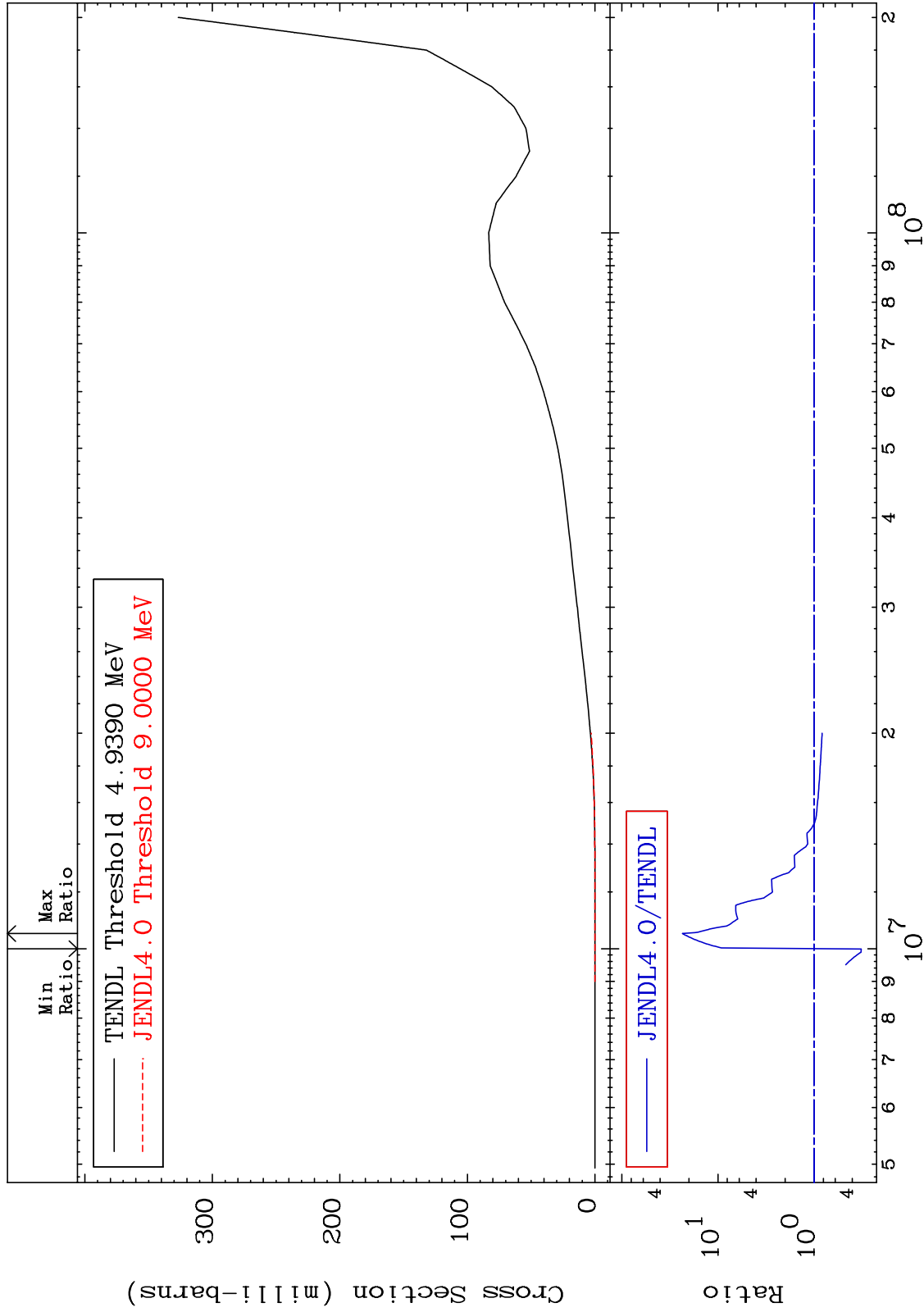
Incident Energy (eV)

70-Yb-171

MAT 7034

Tritium Production
Cross Section

70-Yb-171
-67.82 To 2243. %

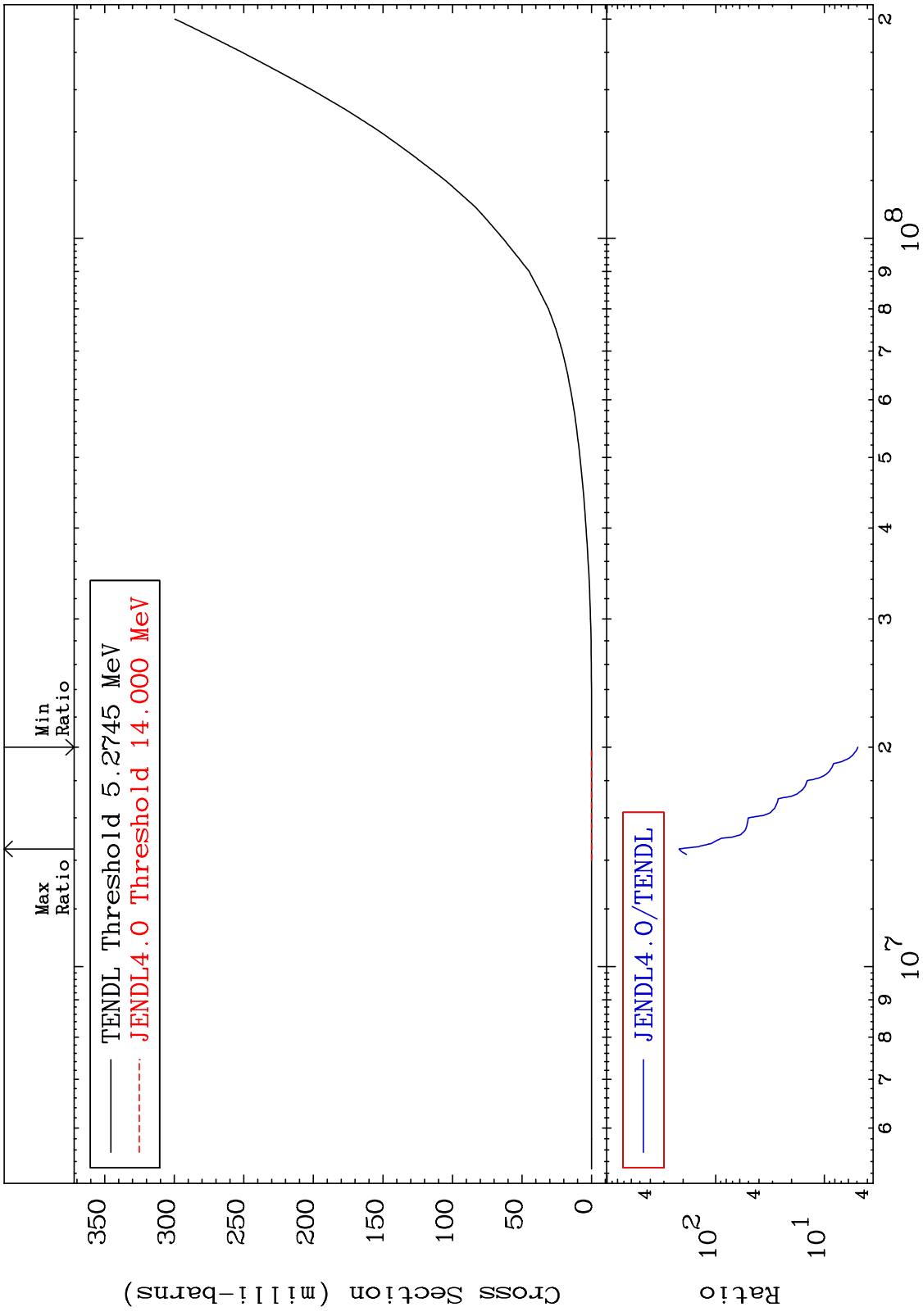


48

Incident Energy (eV)

70-Yb-171

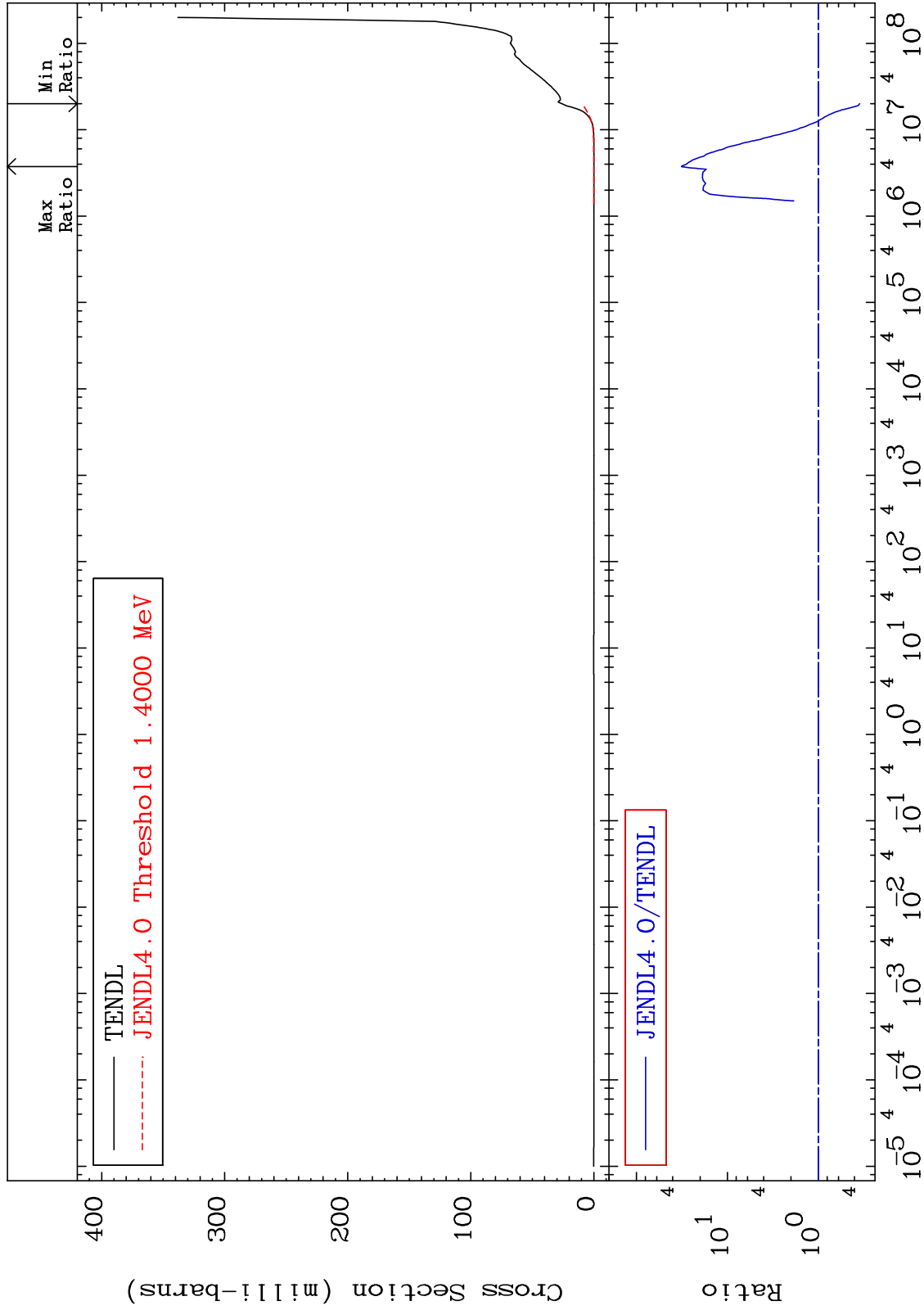
MAT 7034 He-3 Production Cross Section 70-Yb-171
 391.0 To 9999. %



MAT 7034

He-4 Production
Cross Section

70-Yb-171
-64.95 To 3123. %

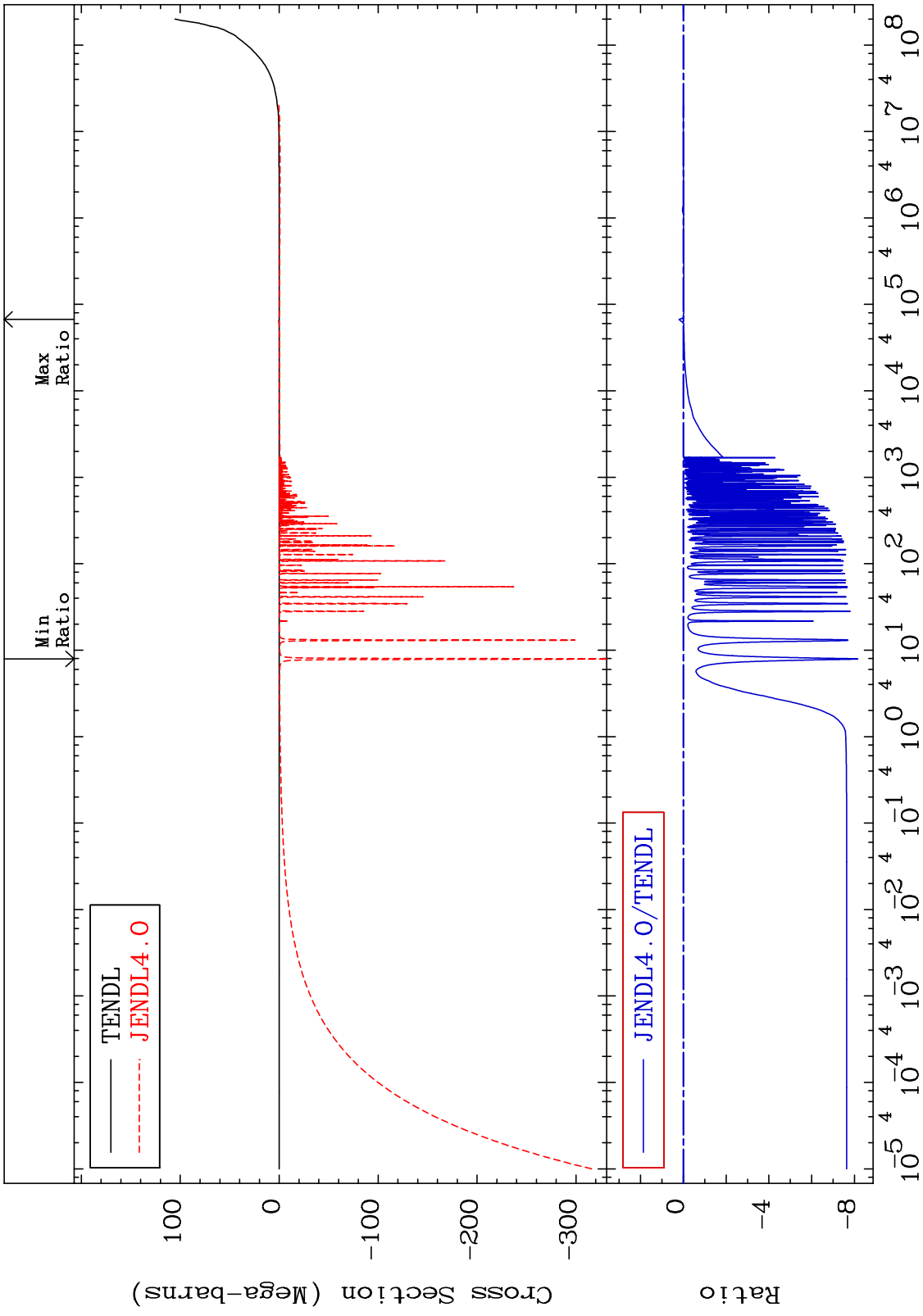


50

Incident Energy (eV)

70-Yb-171

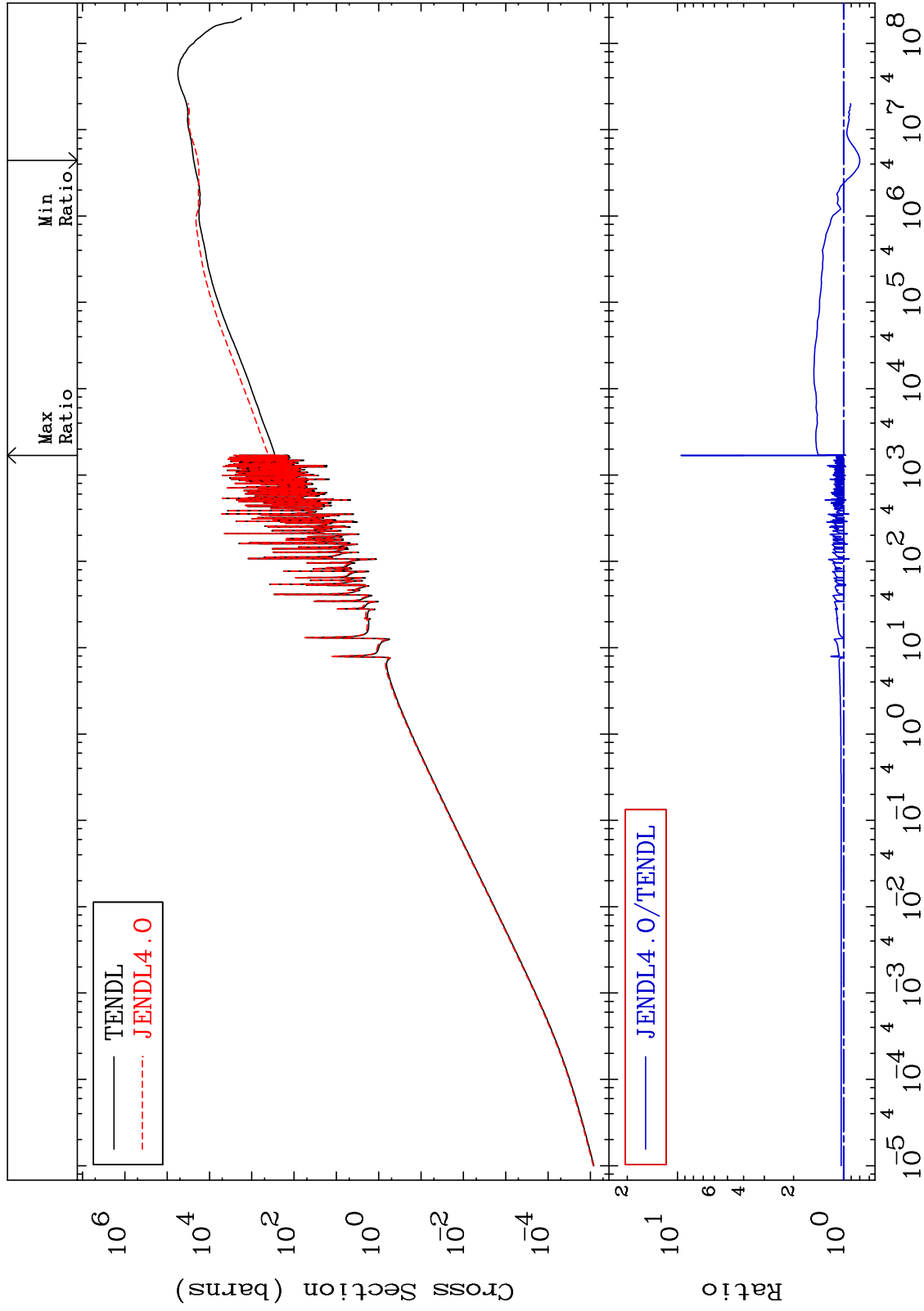
MAT 7034 Kerma total (eV-barns) Cross Section 70-Yb-171
 -9999. To 9999. %



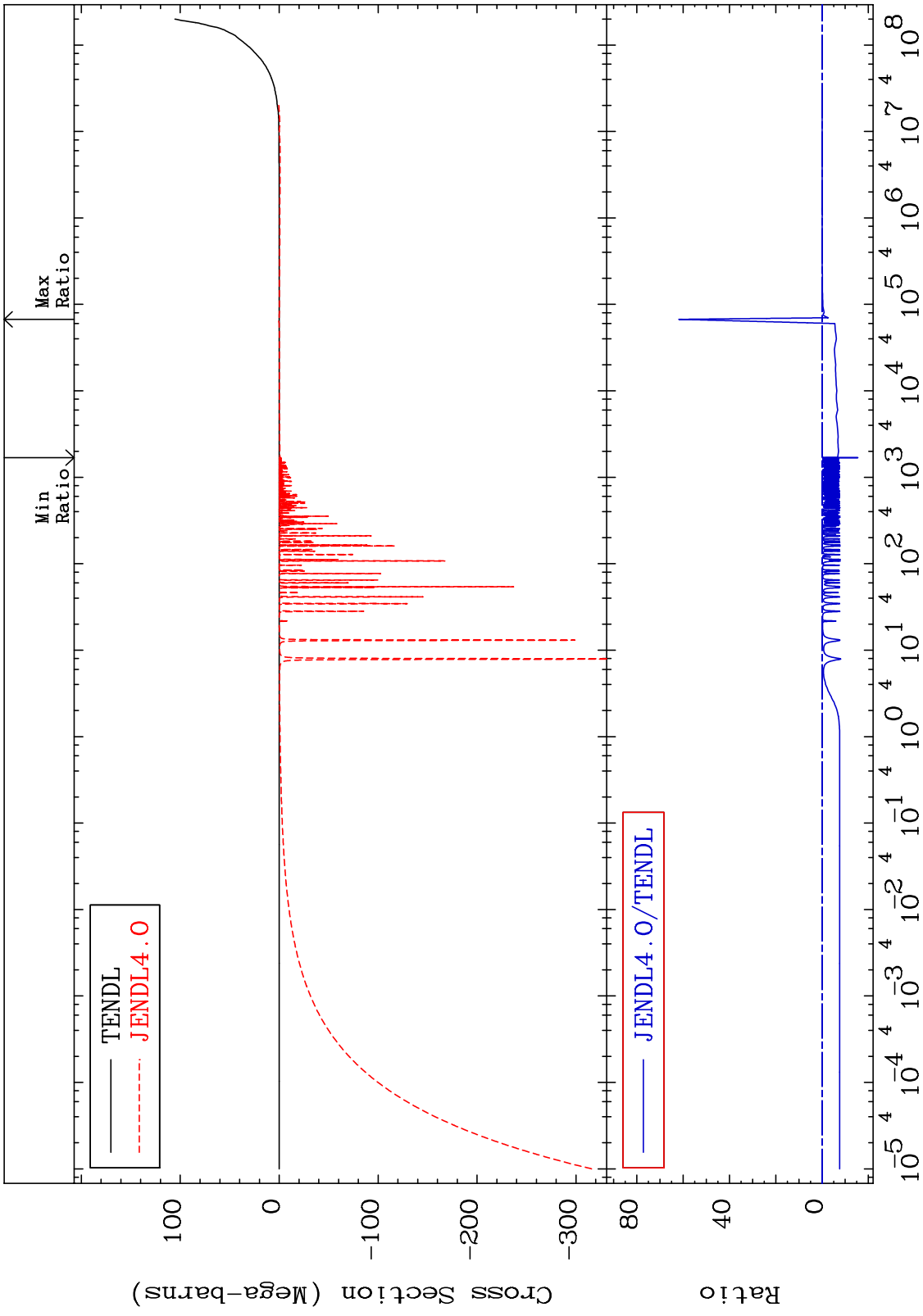
MAT 7034

Kerma elastic
Cross Section

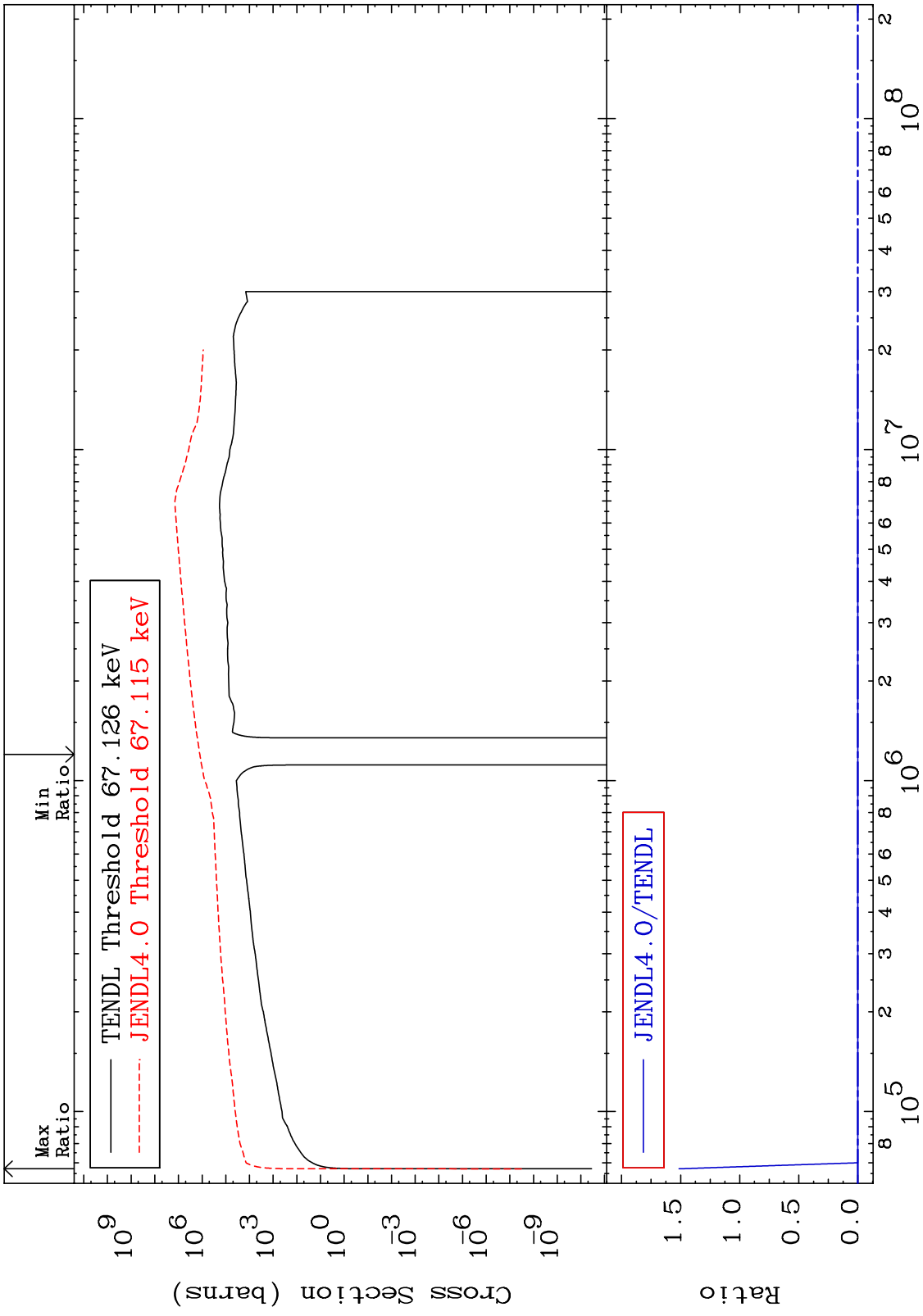
70-Yb-171
-19.98 To 848.0 %



MAT 7034 Kerma non-elastic (all but mt.2) 70-Yb-171
 Cross Section -9999. To 9999. %



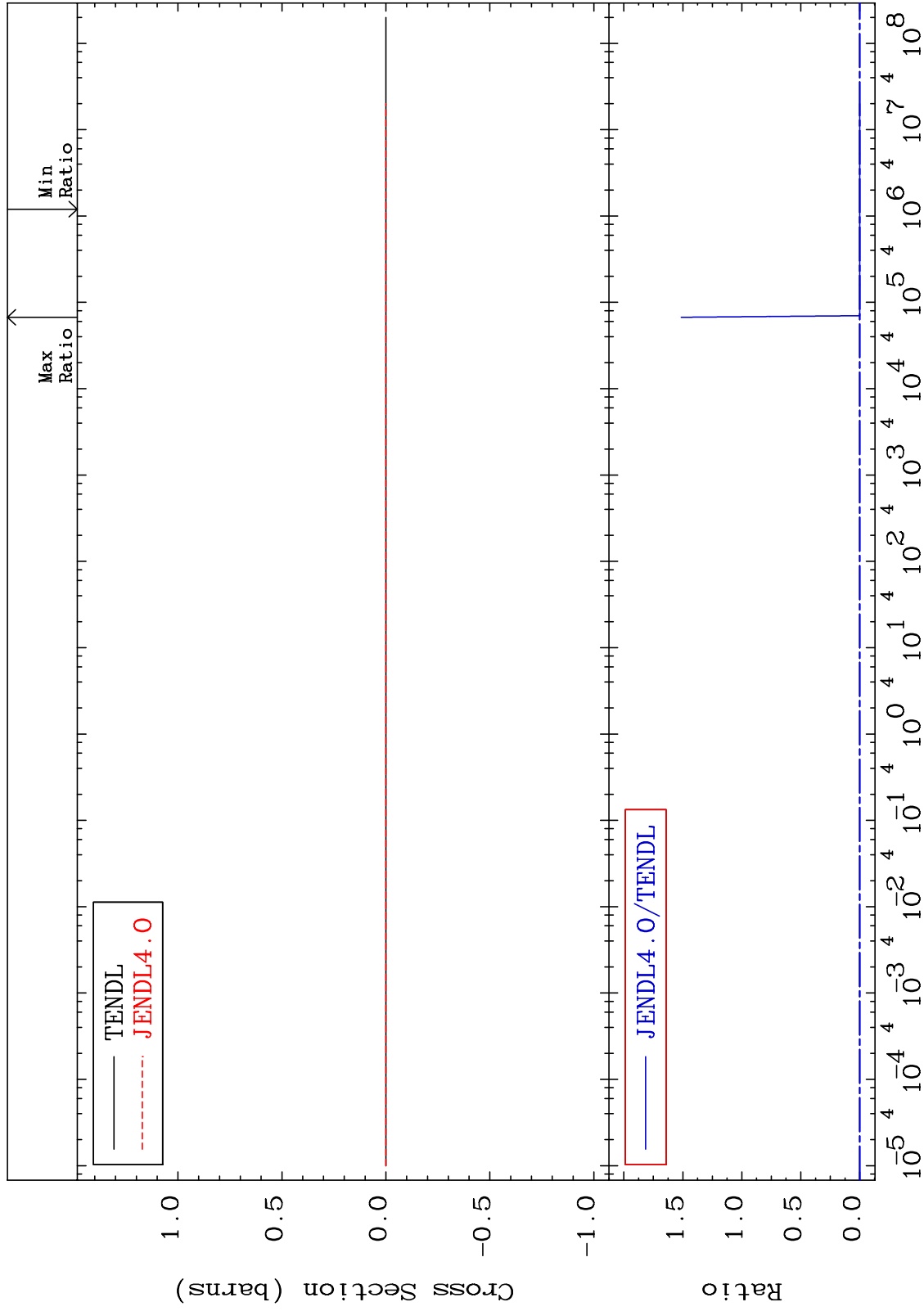
53 70-Yb-171



MAT 7034

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

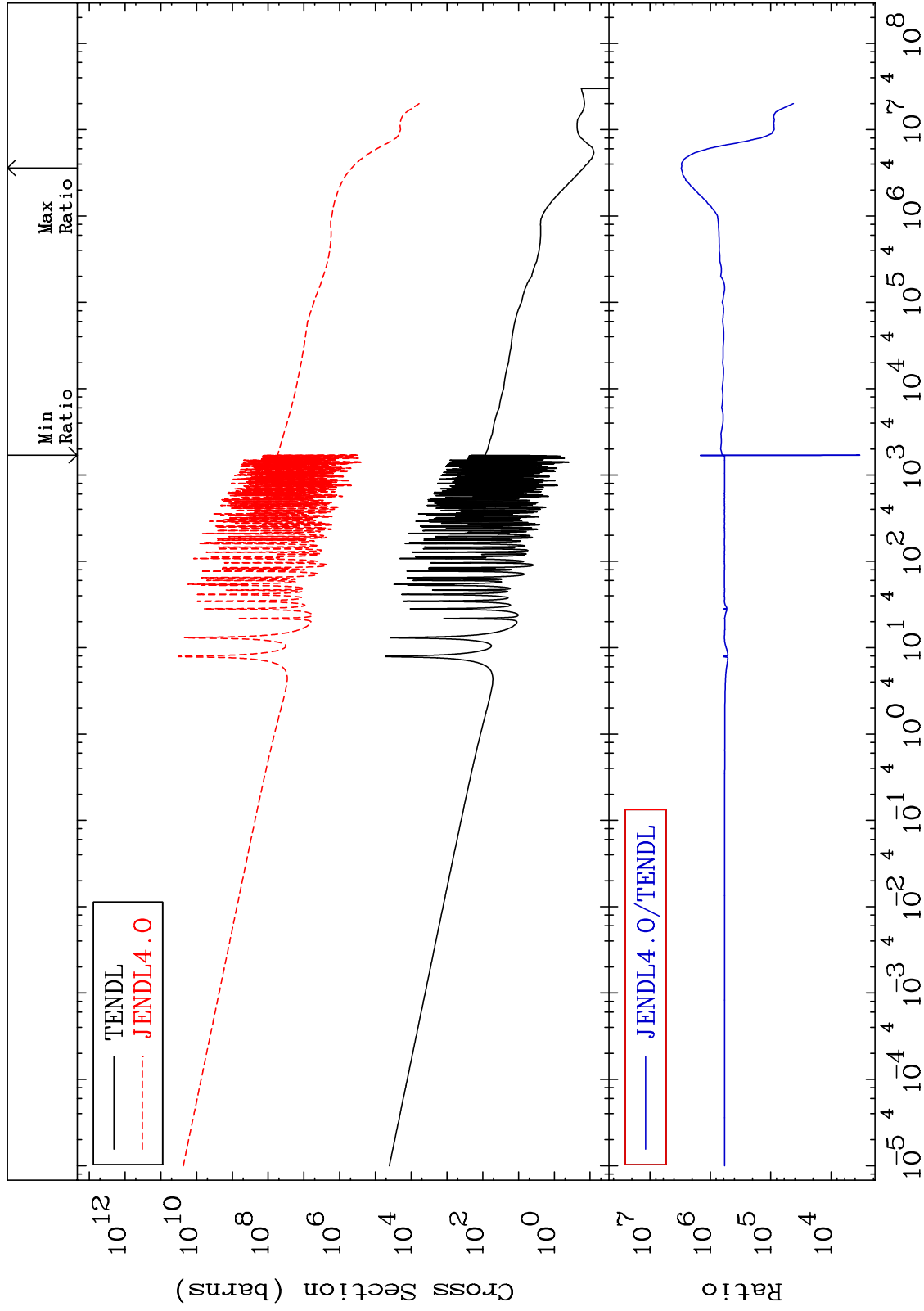
70-Yb-171
-3422. To 9999. %



MAT 7034

Kerma capture (mt102)
Cross Section

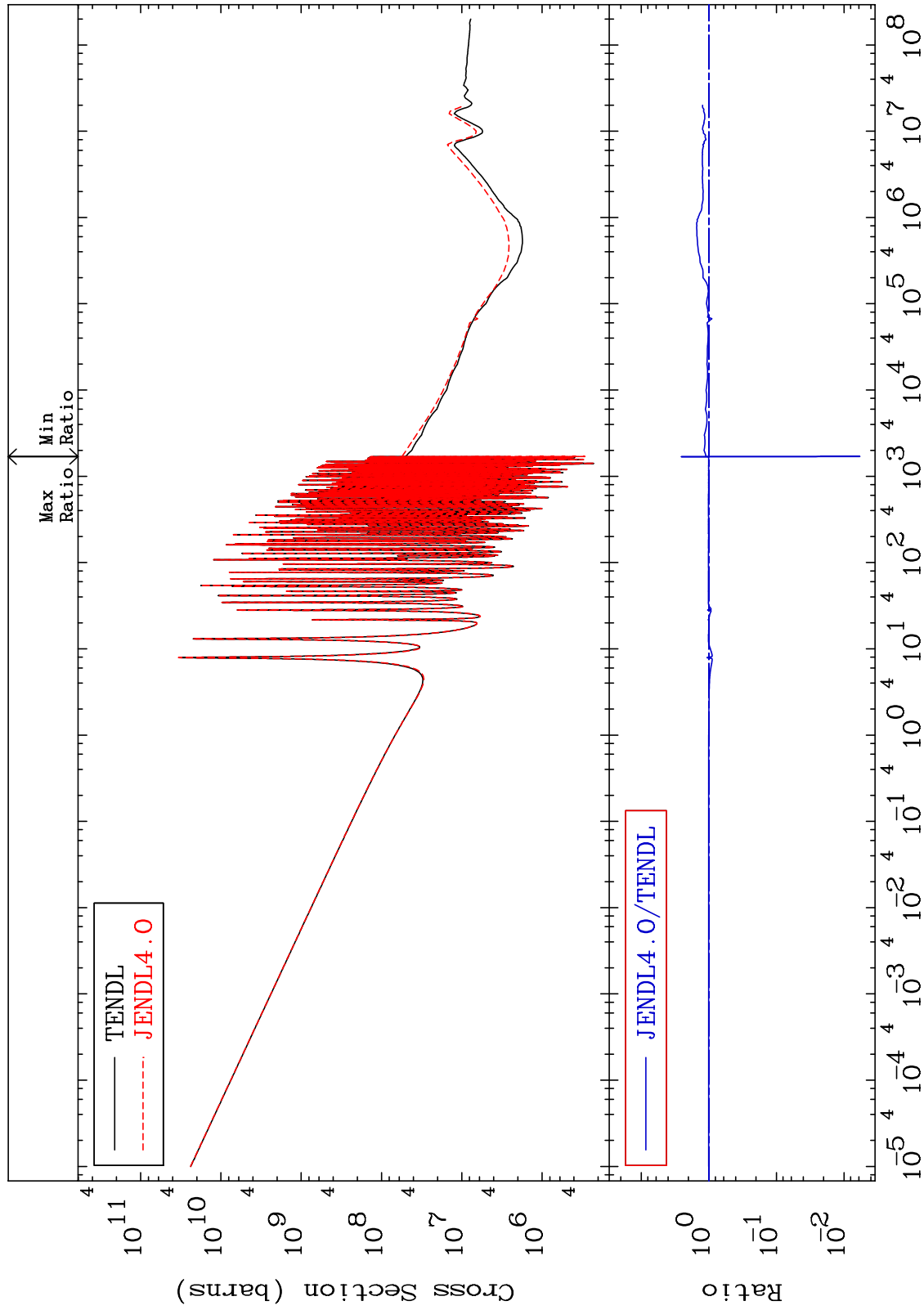
70-Yb-171
9999. To 9999. %



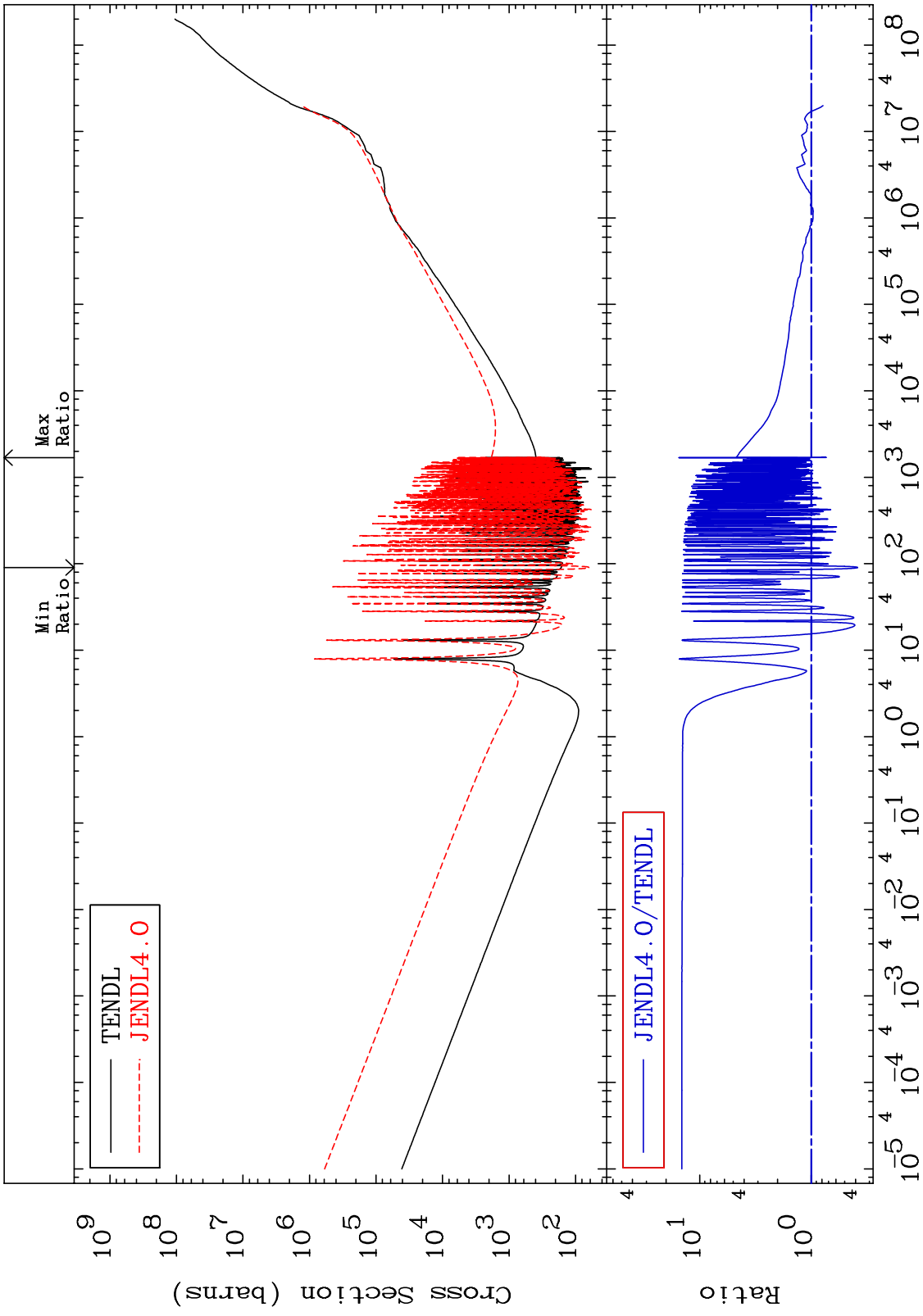
MAT 7034

Total photon (eV-barns)
Cross Section

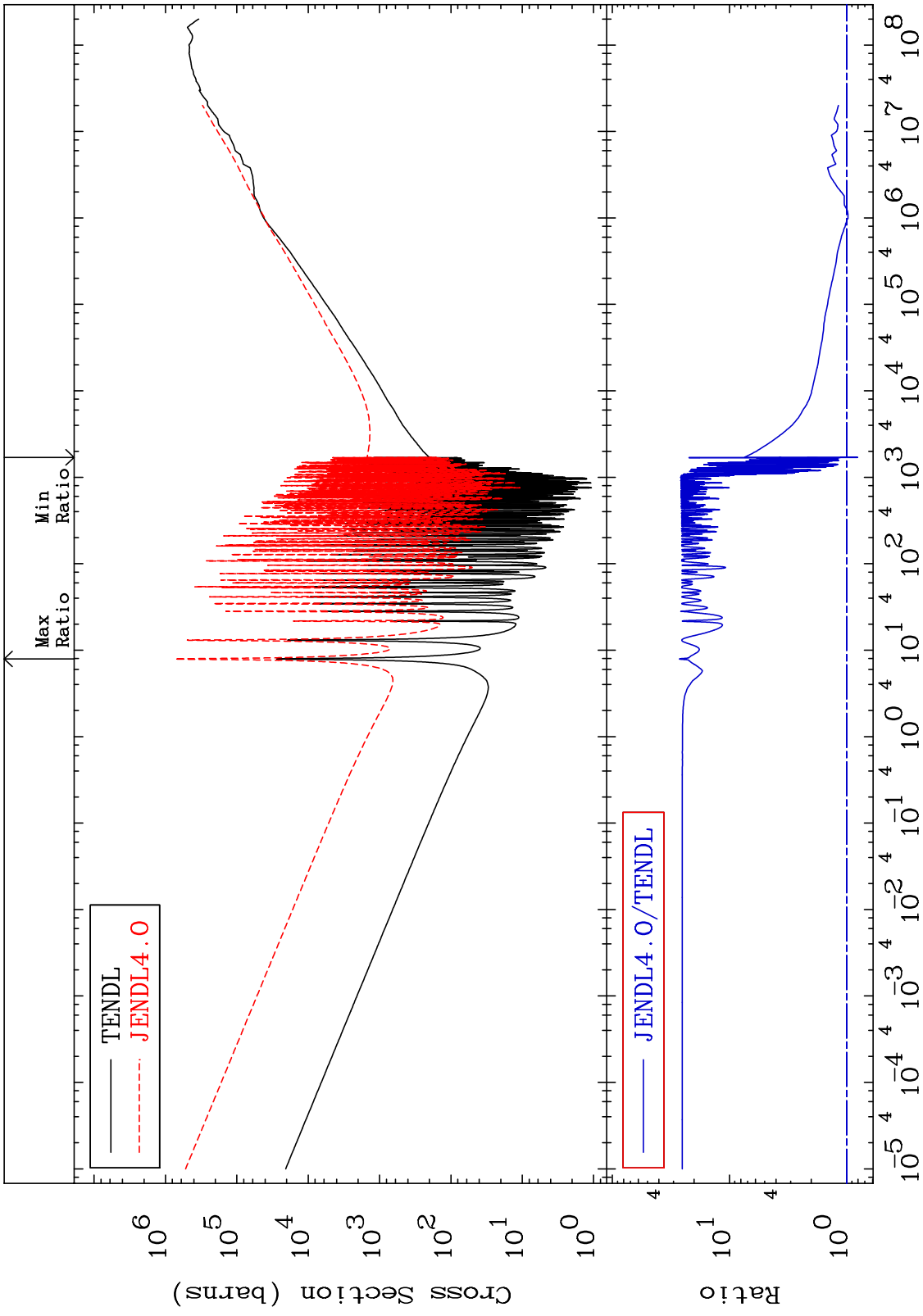
70-Yb-171
-99.42 To 153.6 %



MAT 7034 Total kinematic kerma (high limit) 70-Yb-171
 -61.86 To 1430. %
 Cross Section

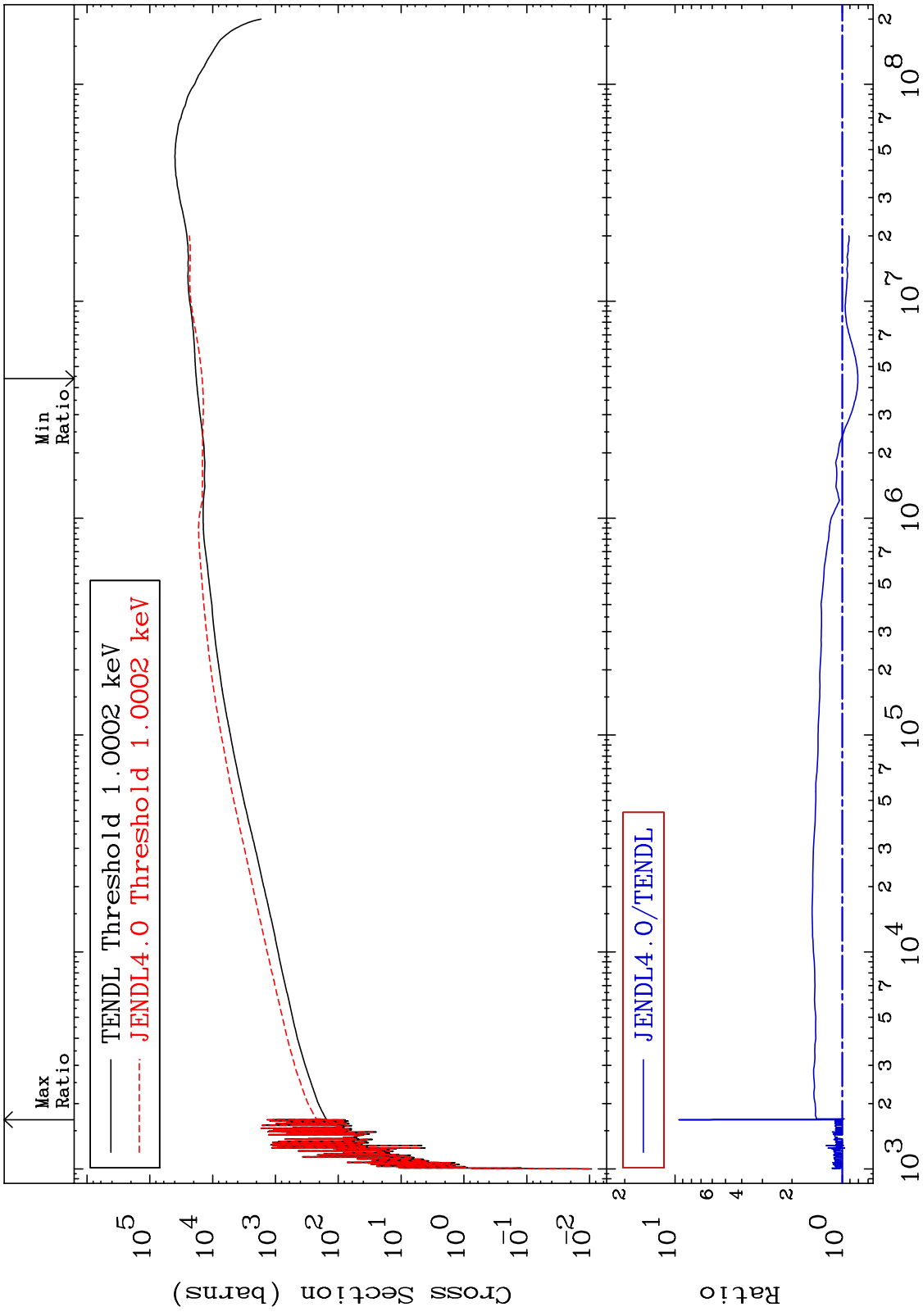


MAT 7034 Dpa total (eV-barns) 70-Yb-171
 -19.80 To 2590. %
 Cross Section

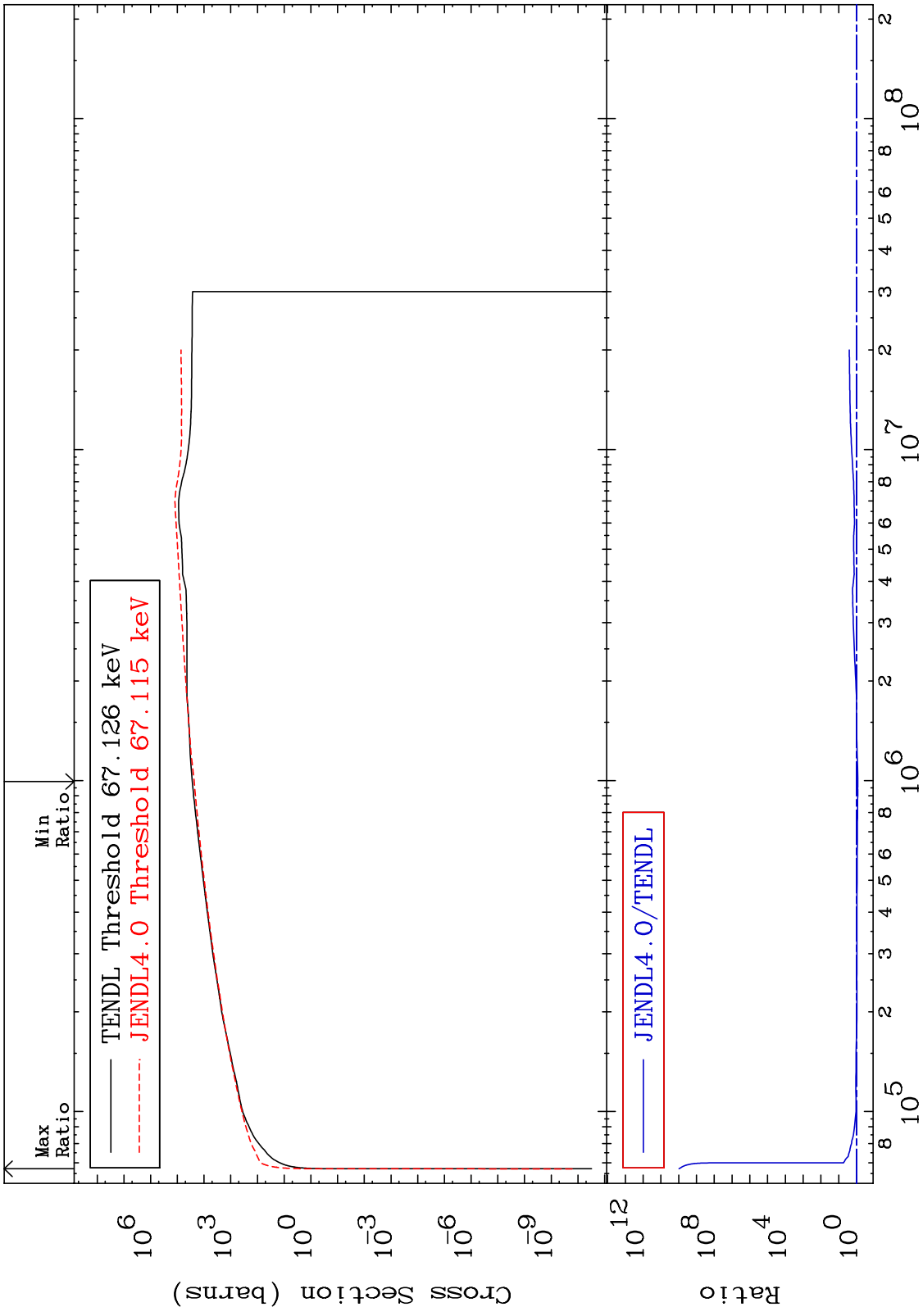


Incident Energy (eV) 70-Yb-171

MAT 7034 70-Yb-171
 Dpa elastic (mt2) -19.29 To 847.8 %
 Cross Section



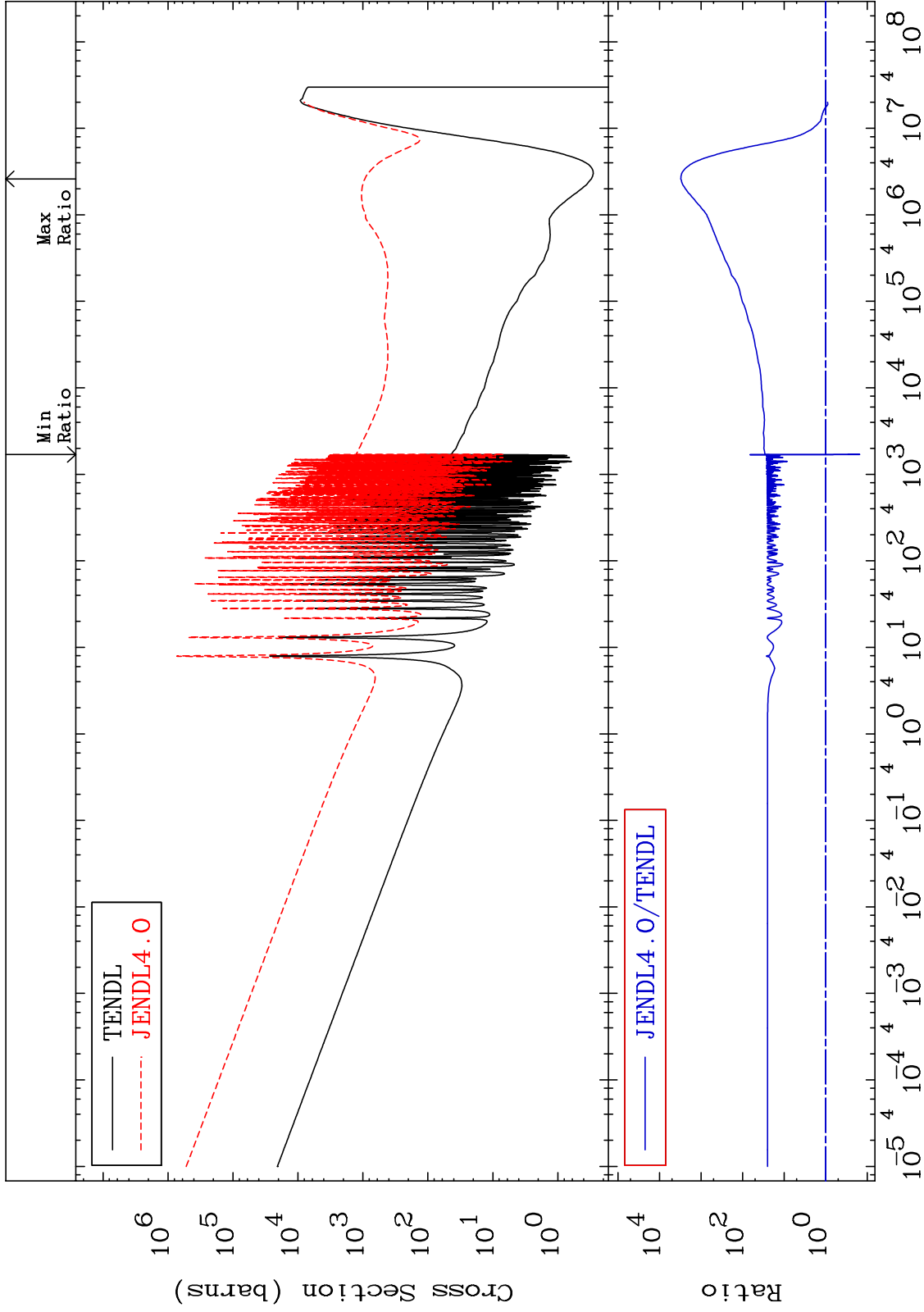
60 70-Yb-171



MAT 7034

Dpa disappearance (mt102 -120)
Cross Section

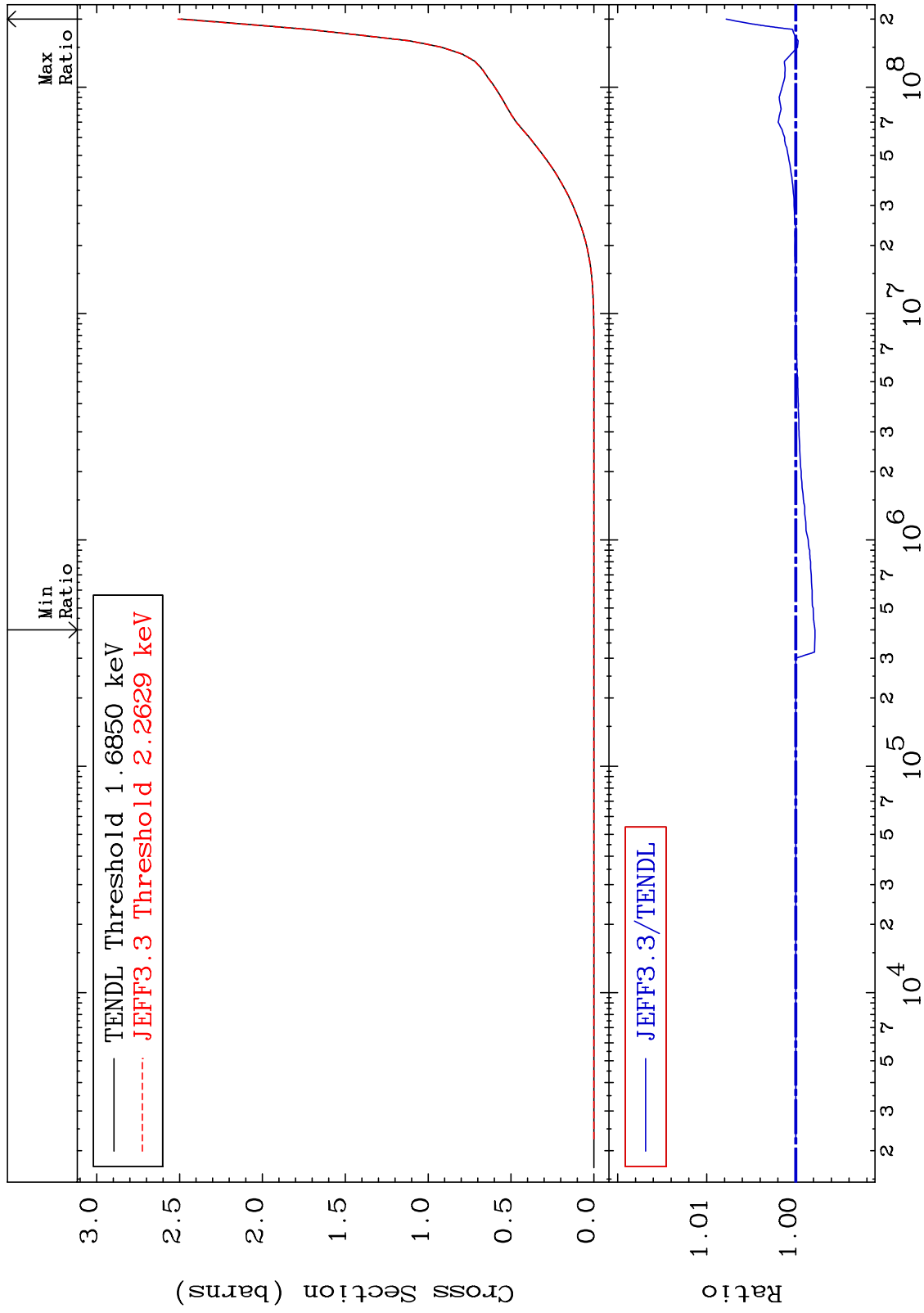
70-Yb-171
-84.75 To 9999. %



MAT 7034

Hydrogen Production
Cross Section

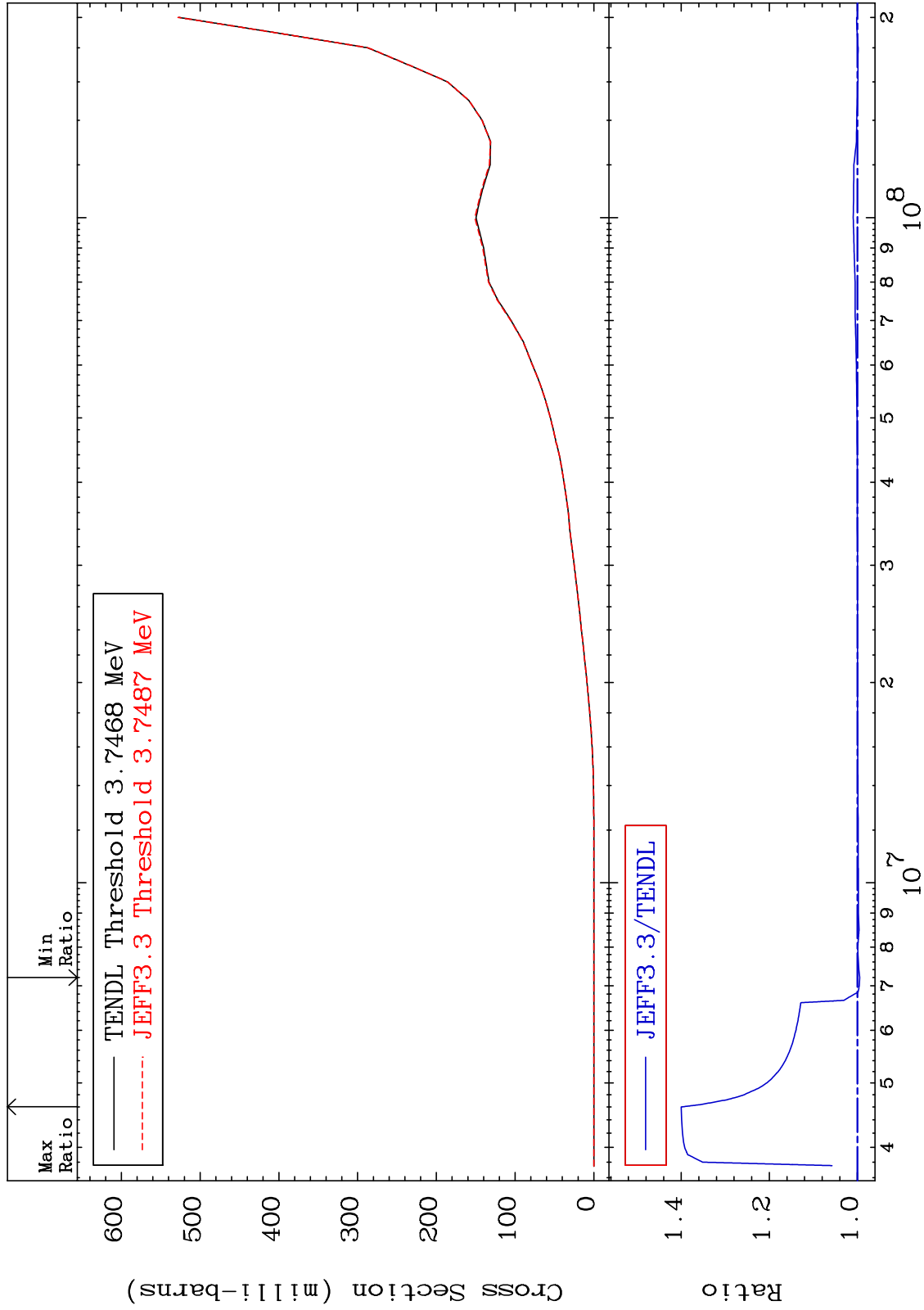
70-Yb-171
-0.216 To 0.782 %



MAT 7034

Deuterium Production
Cross Section

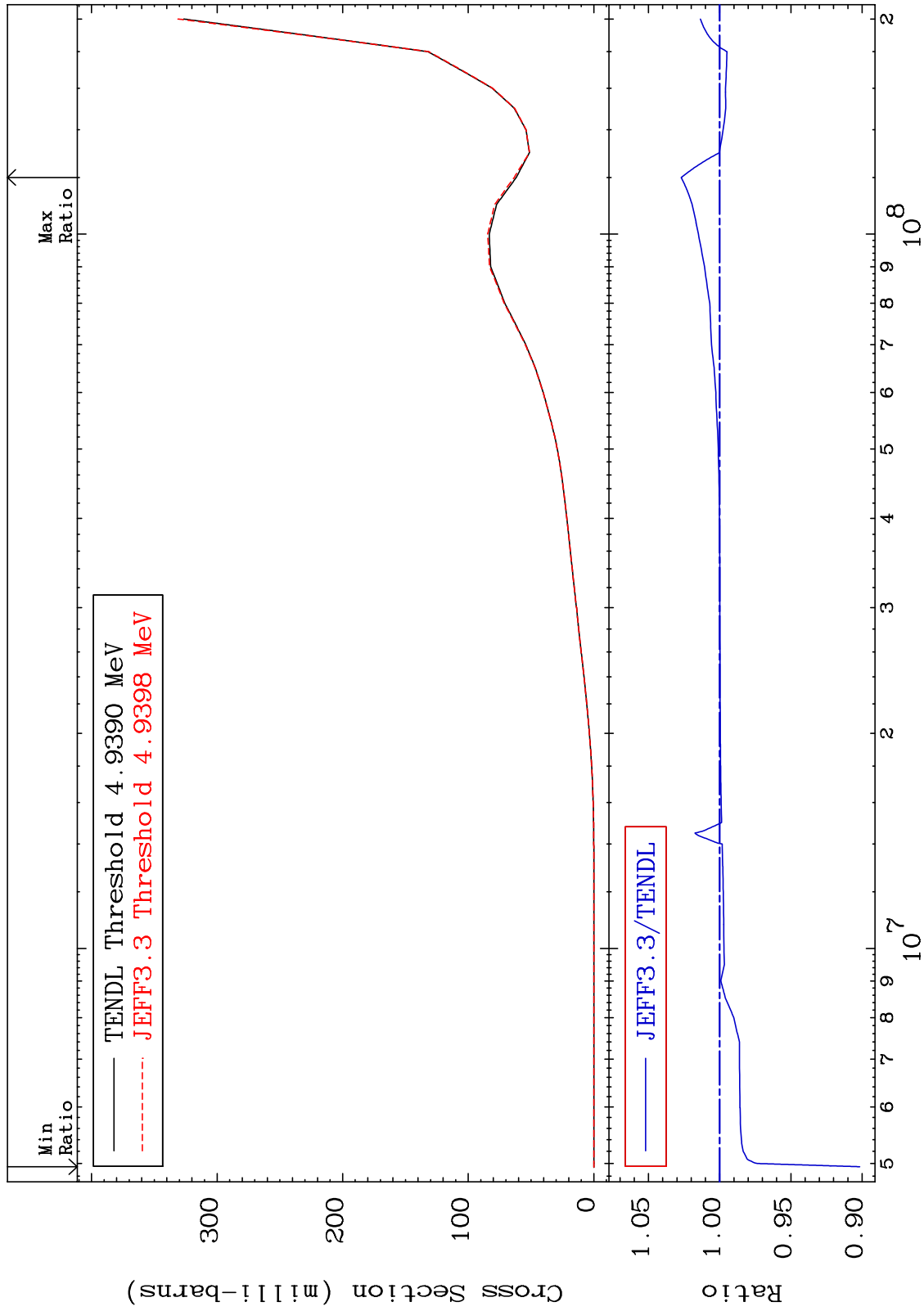
70-Yb-171
-0.534 To 40.00 %



MAT 7034

Tritium Production
Cross Section

70-Yb-171
-9.836 To 2.698 %



65

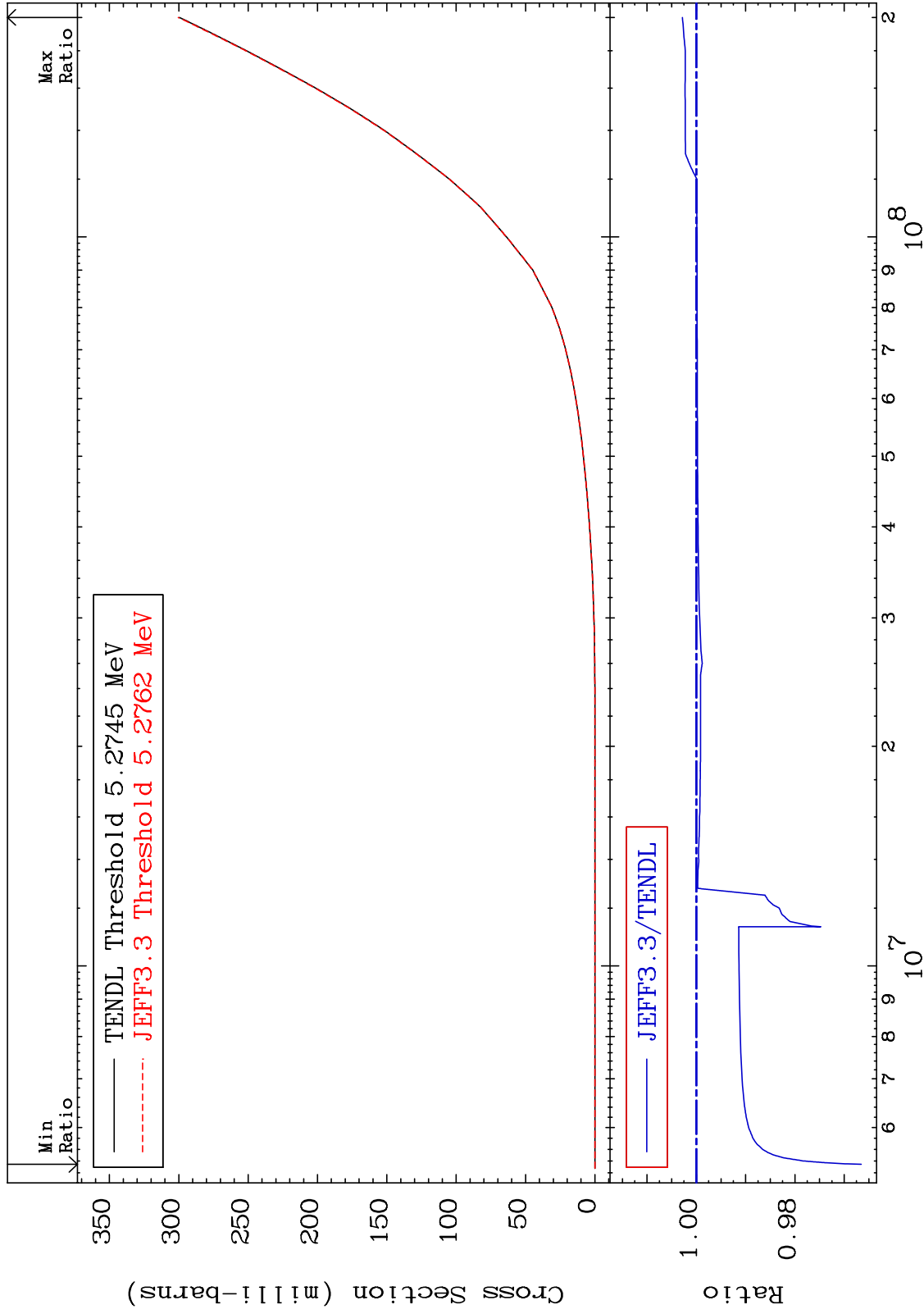
Incident Energy (eV)

70-Yb-171

MAT 7034

He-3 Production
Cross Section

70-Yb-171
-3.347 To 0.282 %



66

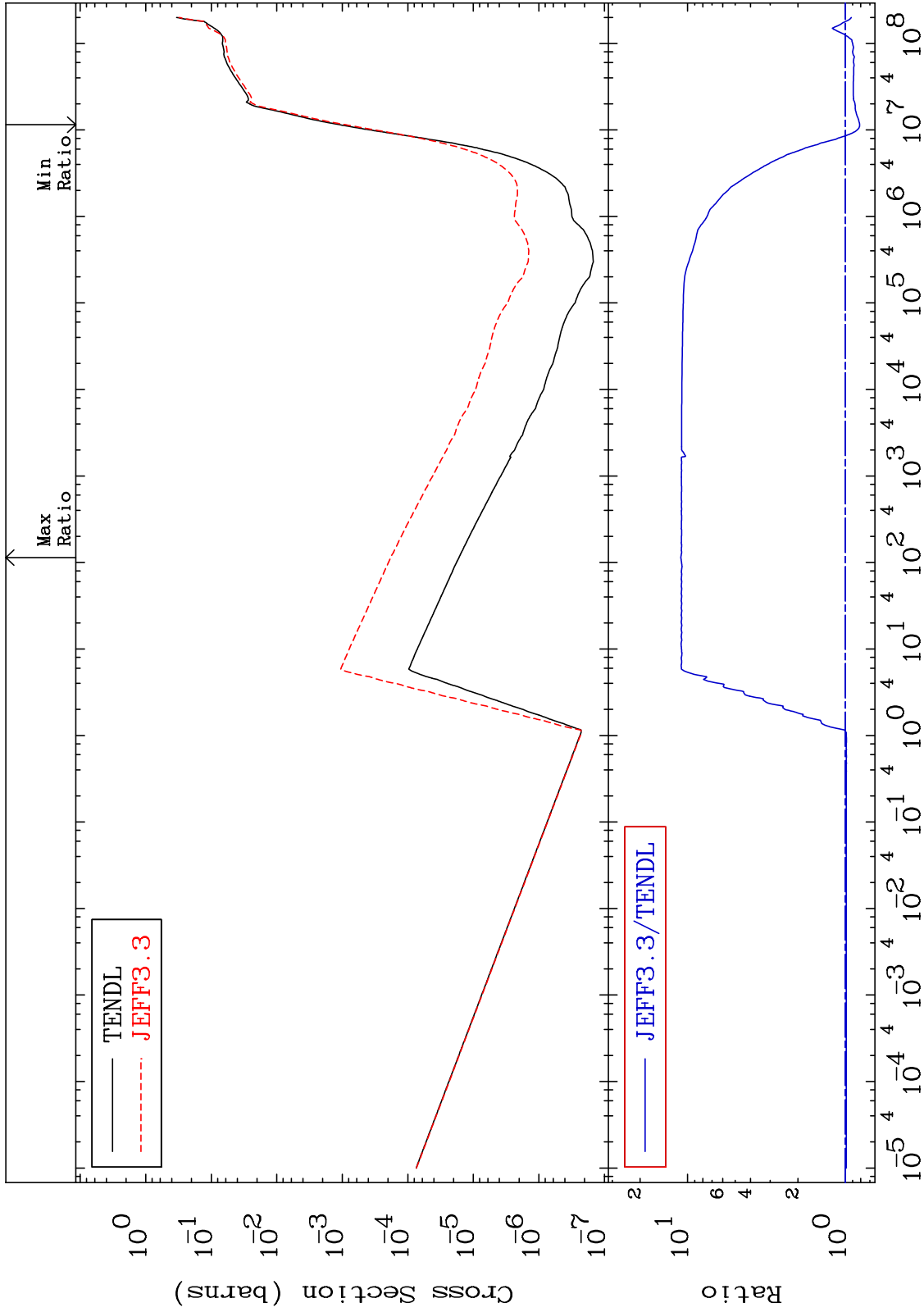
Incident Energy (eV)

70-Yb-171

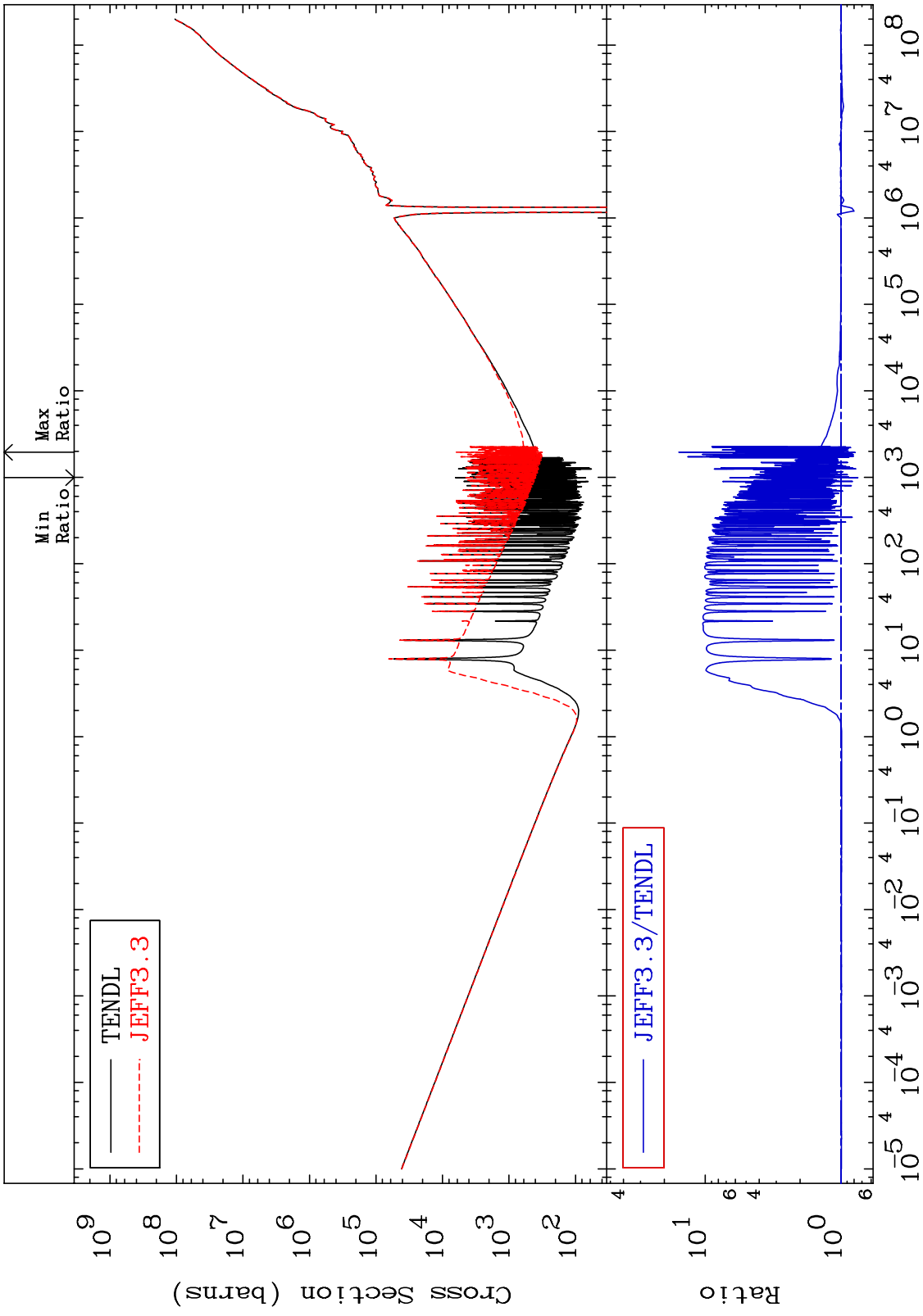
MAT 7034

He-4 Production
Cross Section

70-Yb-171
-18.68 To 1004. %



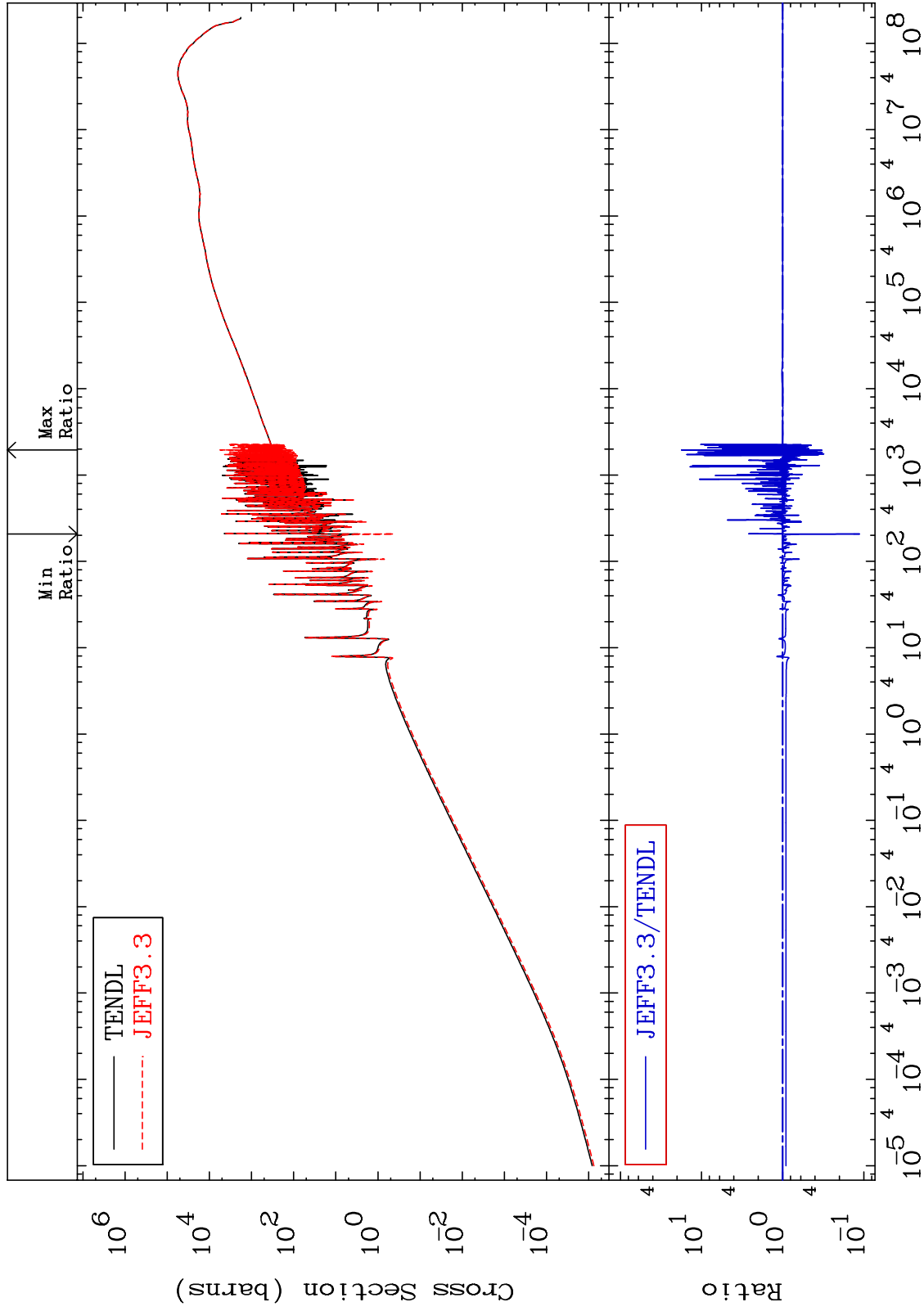
MAT 7034 Kerma total (eV-barns) 70-Yb-171
 Cross Section -24.90 To 1460. %



MAT 7034

Kerma elastic
Cross Section

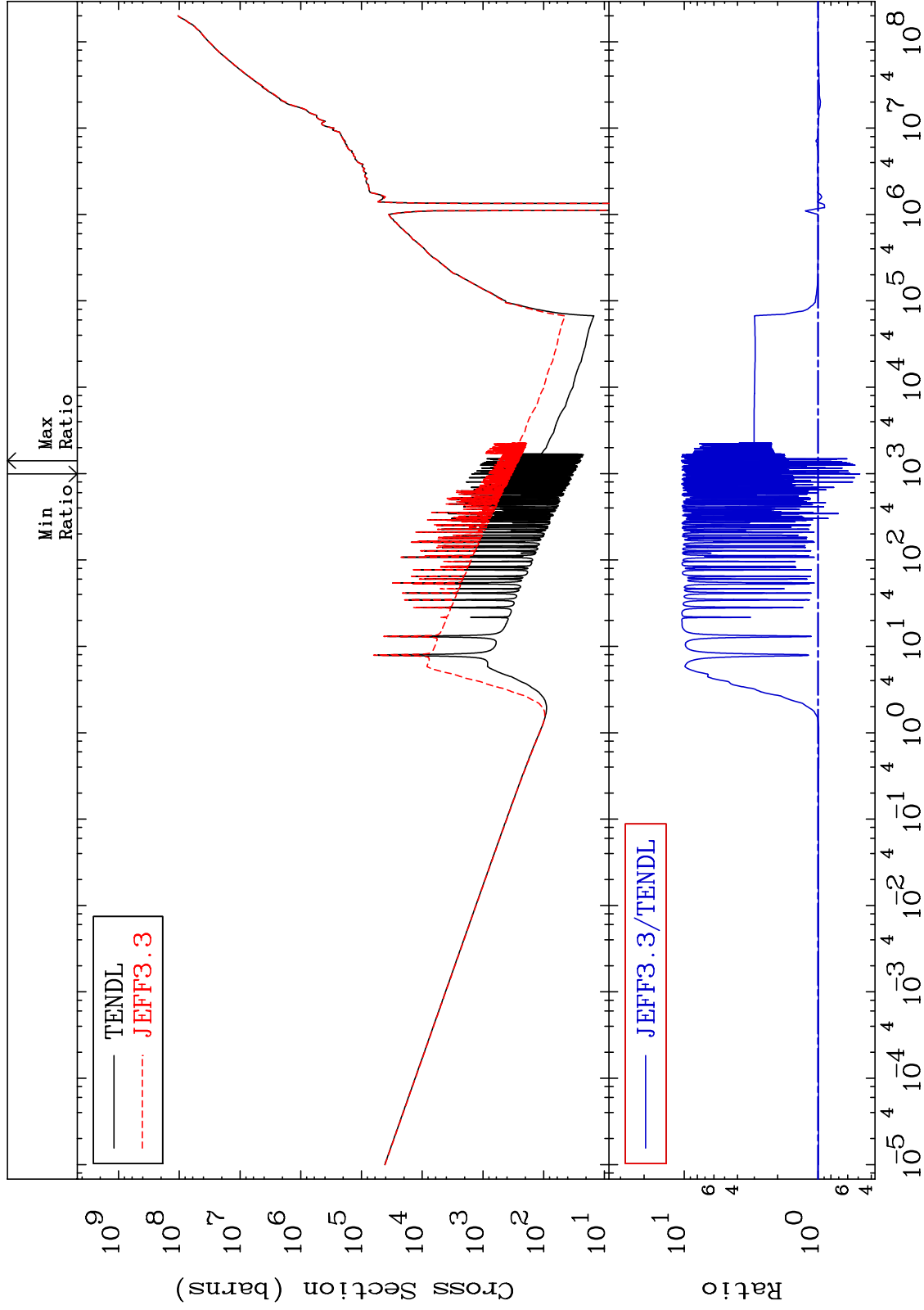
70-Yb-171
-88.76 To 1680. %



MAT 7034

Kerma non-elastic (all but mt2)
Cross Section

70-Yb-171
-51.31 To 954.4 %



70

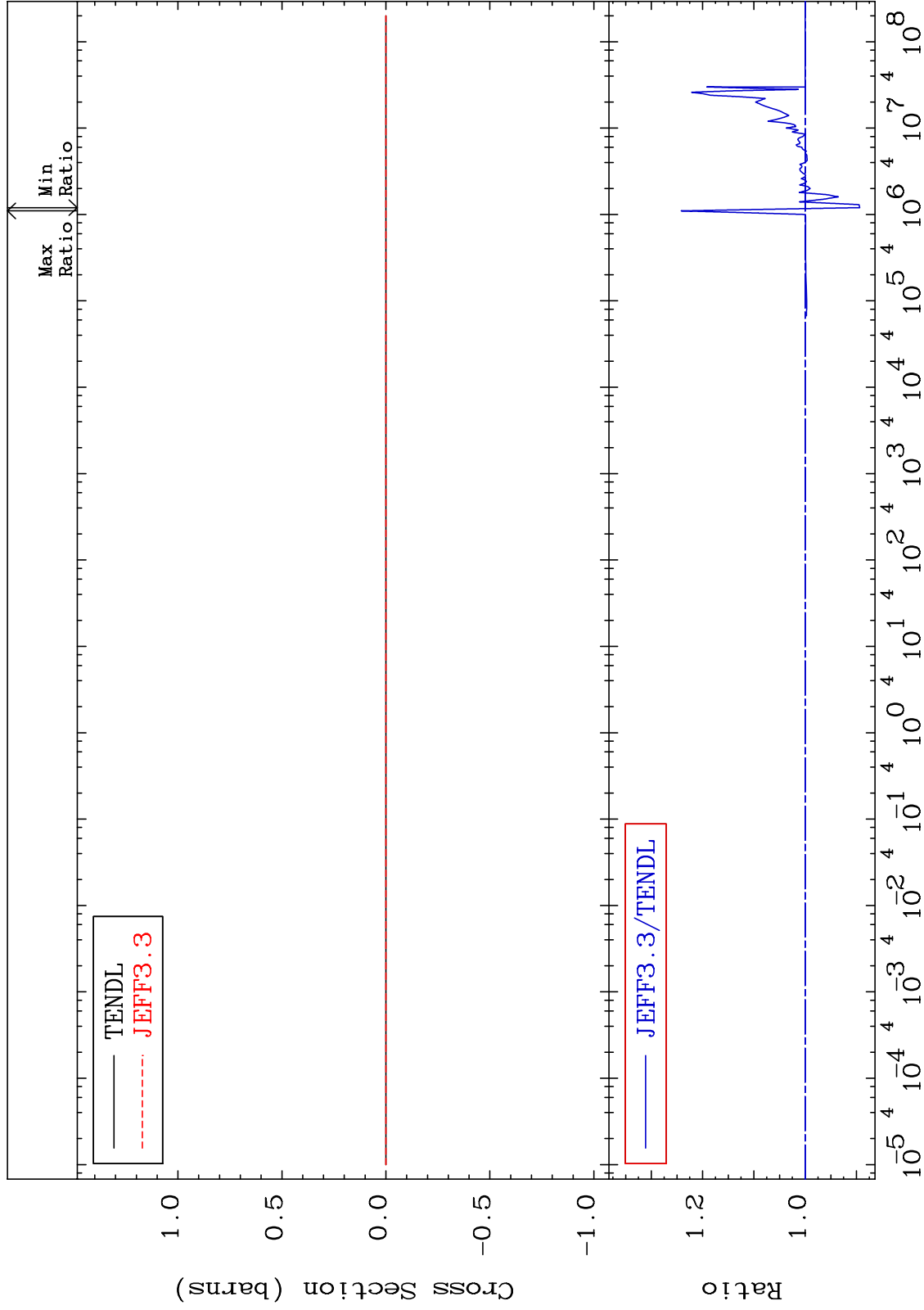
Incident Energy (eV)

70-Yb-171

MAT 7034

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

70-Yb-171
-10.64 To 24.16 %



72

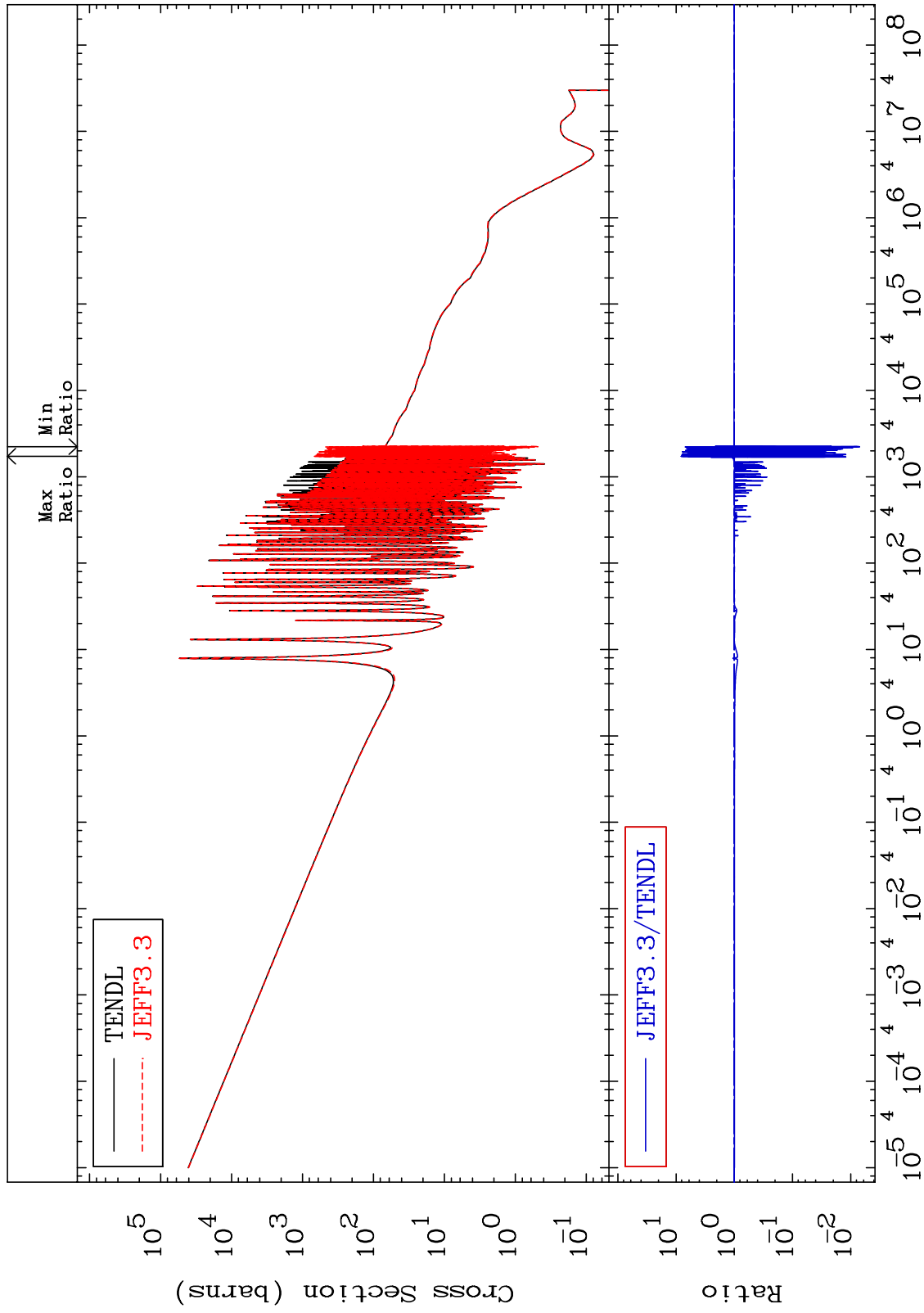
Incident Energy (eV)

70-Yb-171

MAT 7034

Kerma capture (mt102)
Cross Section

70-Yb-171
-99.30 To 715.0 %



73

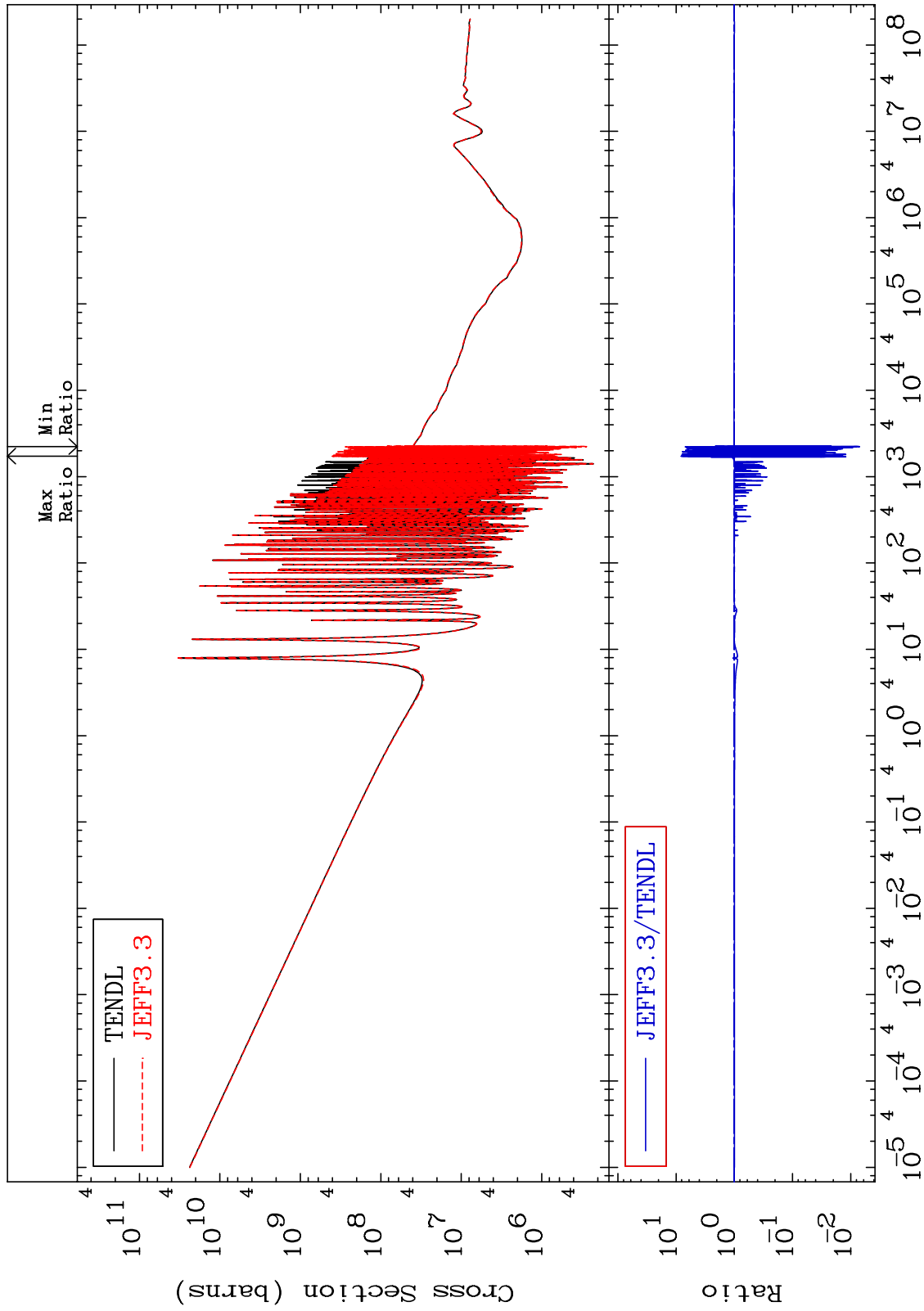
Incident Energy (eV)

70-Yb-171

MAT 7034

Total photon (eV-barns)
Cross Section

70-Yb-171
-99.30 To 715.0 %



74

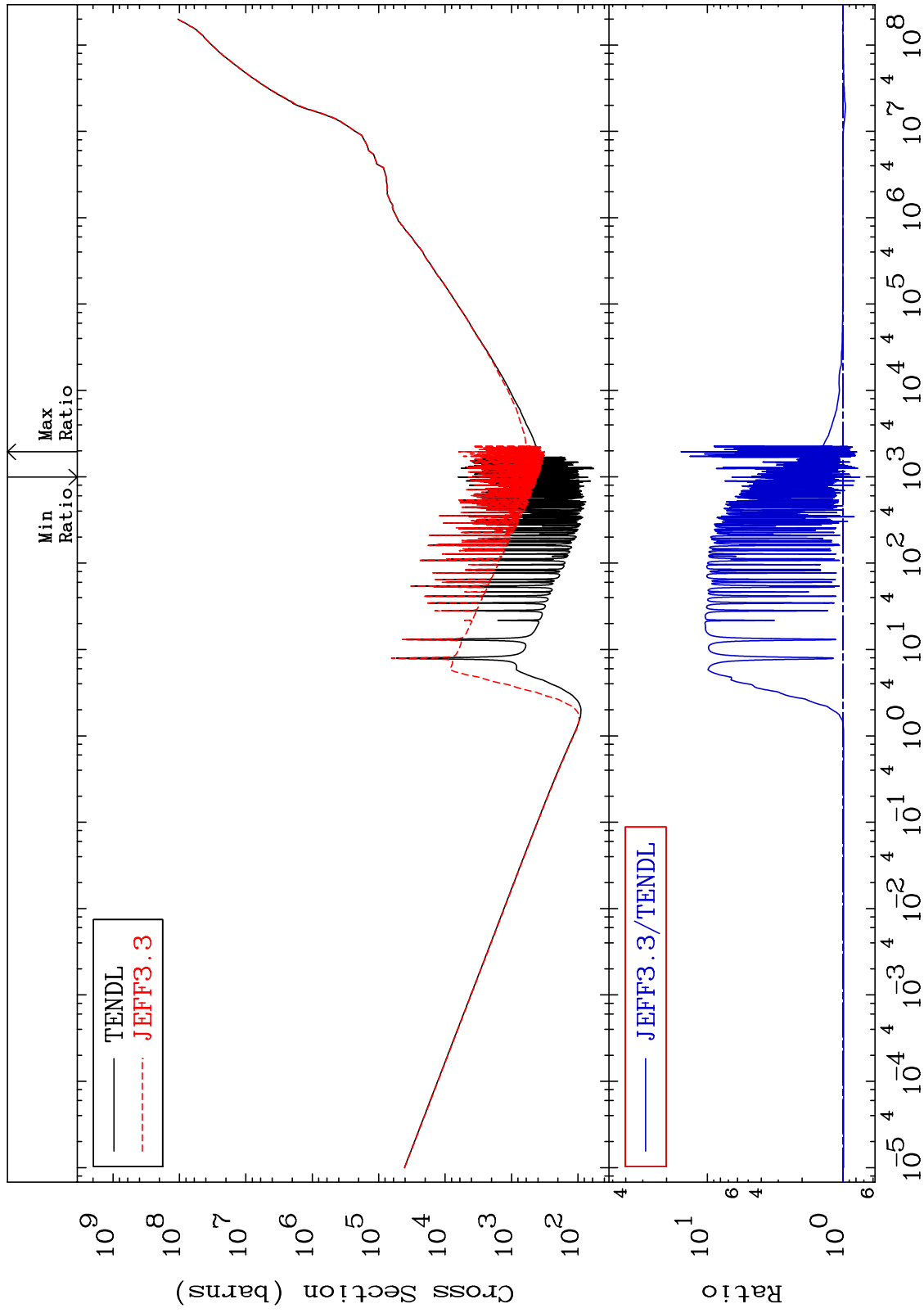
Incident Energy (eV)

70-Yb-171

MAT 7034

Total kinematic kerma (high limit)
Cross Section

70-Yb-171
-24.87 To 1460. %



75

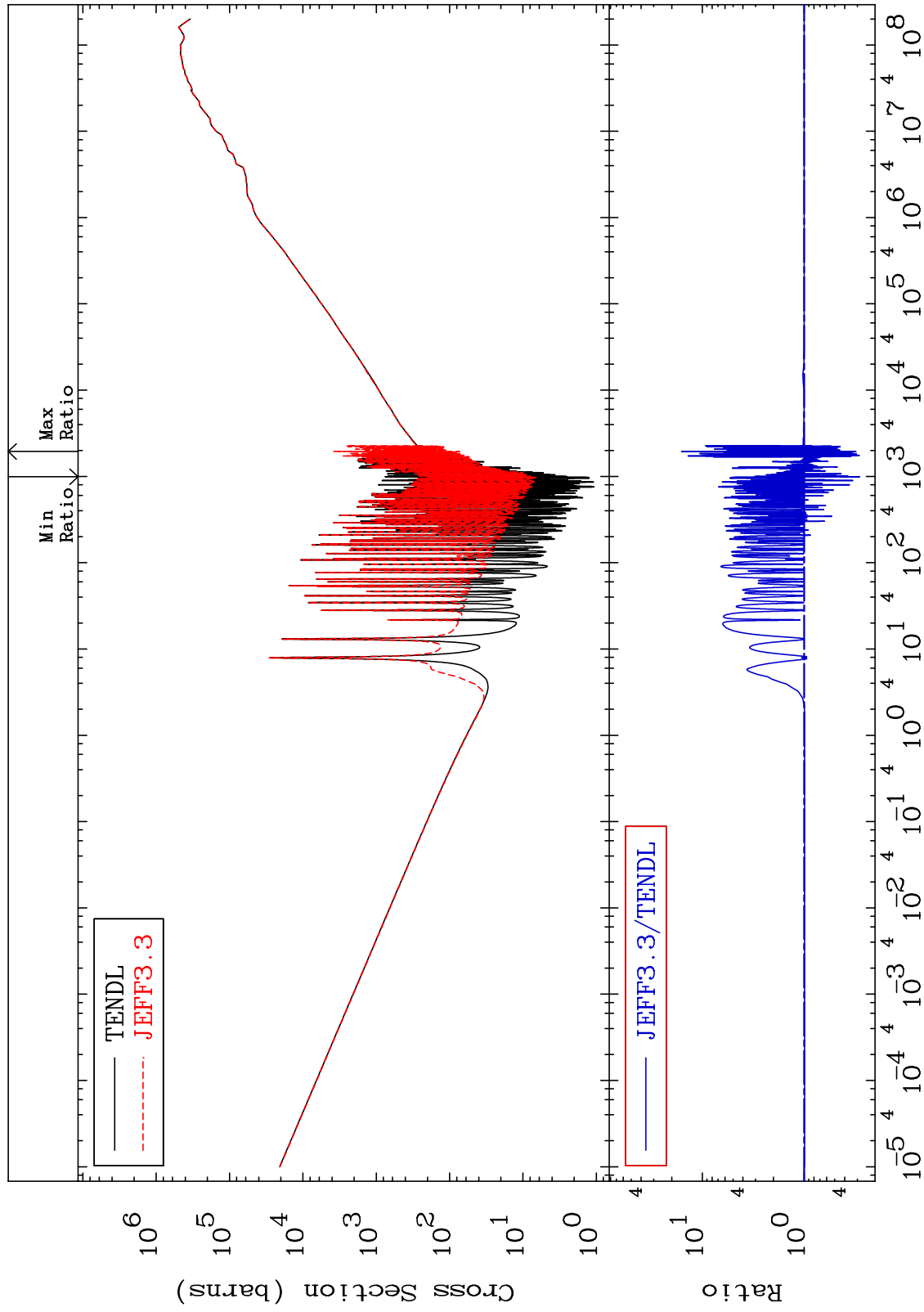
Incident Energy (eV)

70-Yb-171

MAT 7034

Dpa total (eV-barns)
Cross Section

70-Yb-171
-71.63 To 1504. %



76

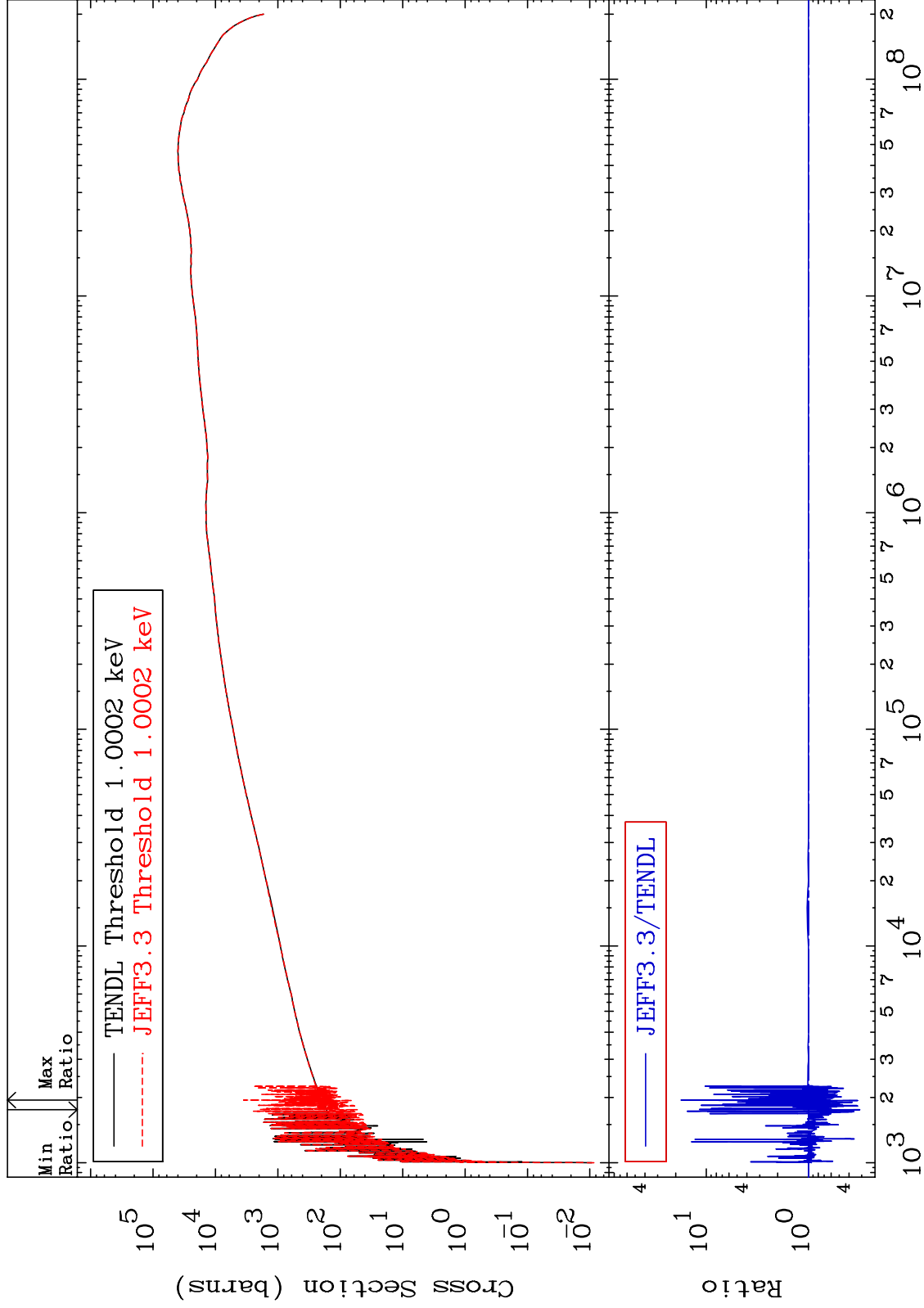
Incident Energy (eV)

70-Yb-171

MAT 7034

Dpa elastic (mt2)
Cross Section

70-Yb-171
-68.64 To 1662. %



77

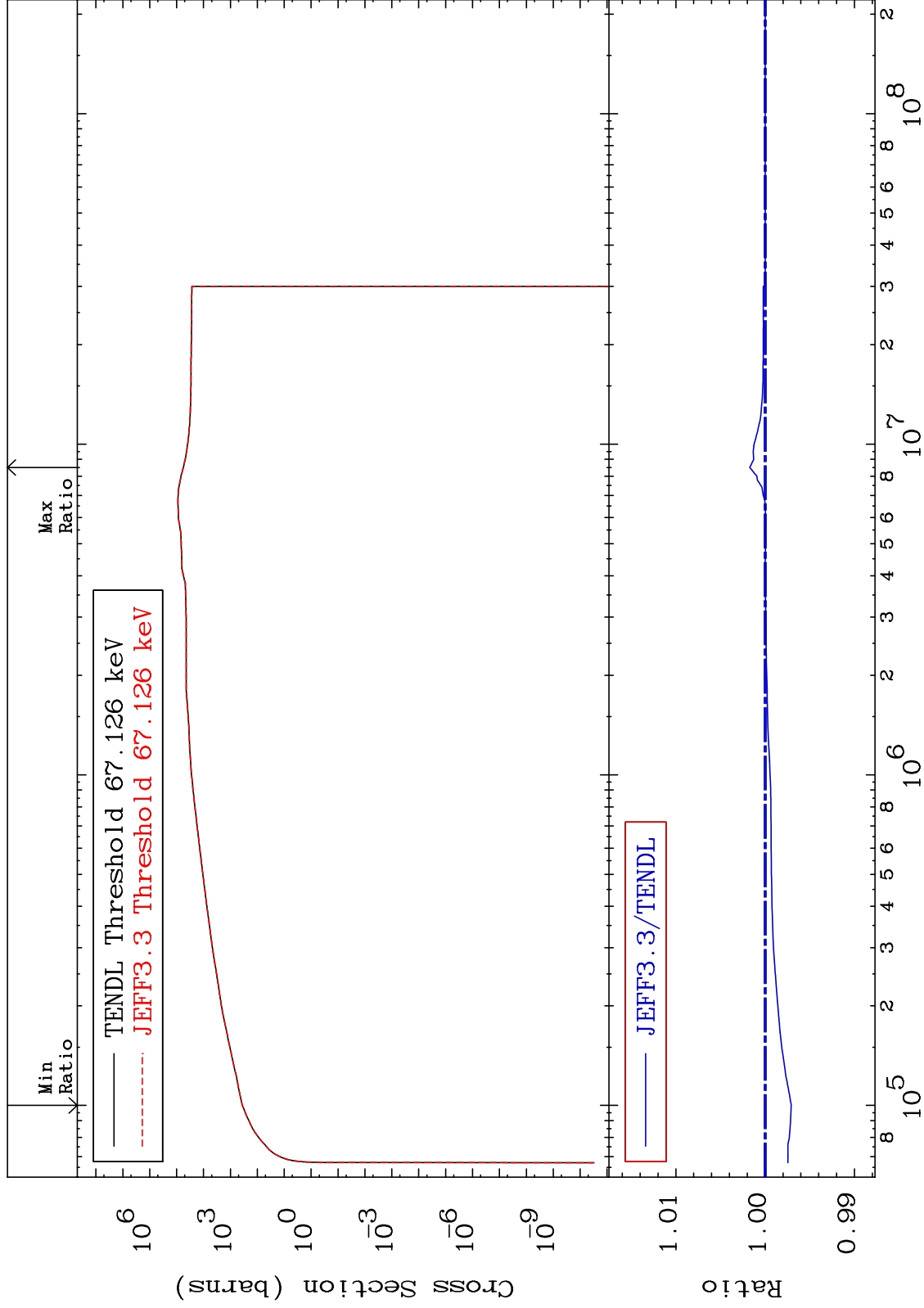
Incident Energy (eV)

70-Yb-171

MAT 7034

Dpa inelastic (mt51-91)
Cross Section

70-Yb-171
-0.292 To 0.172 %



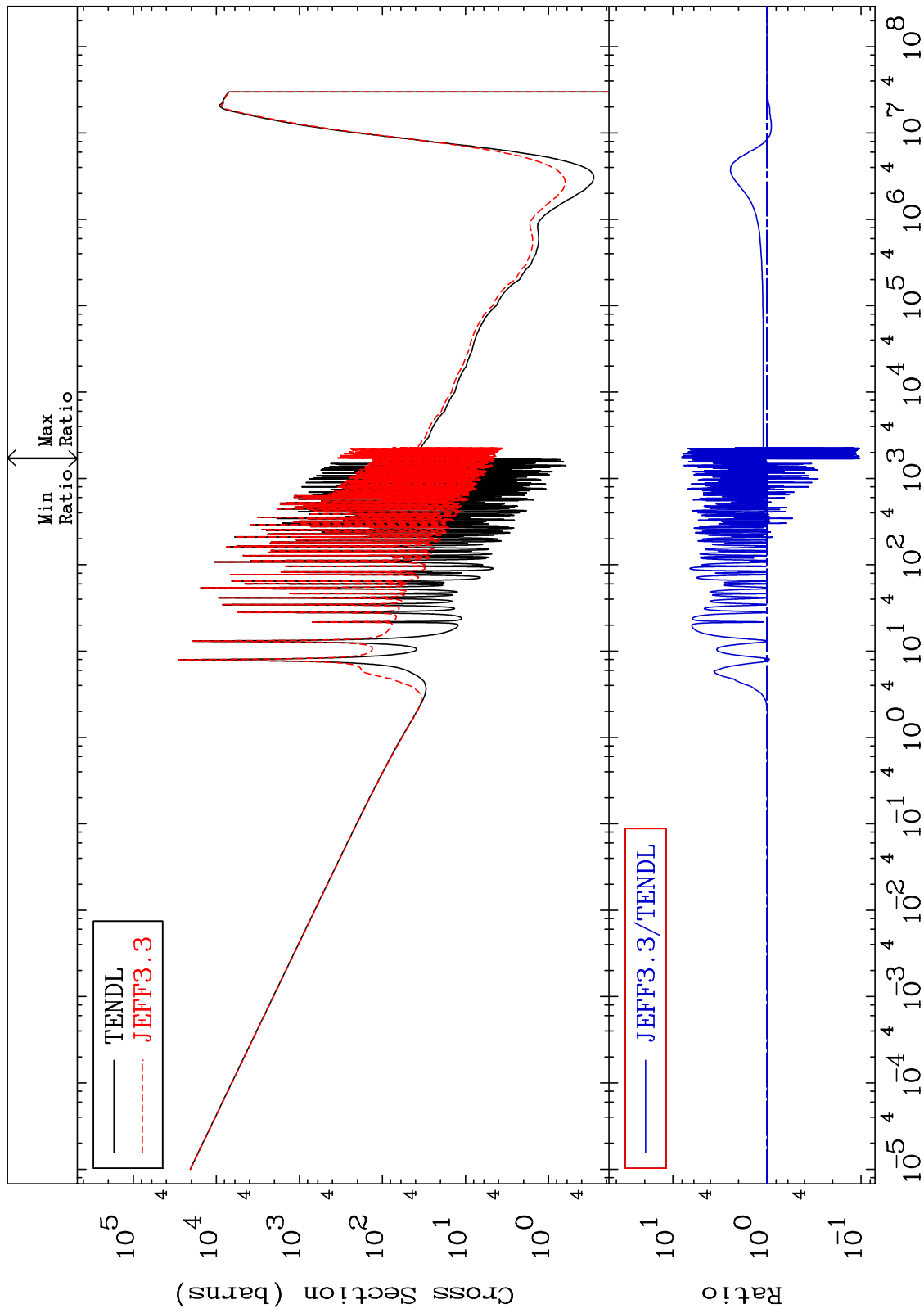
78

70-Yb-171

MAT 7034

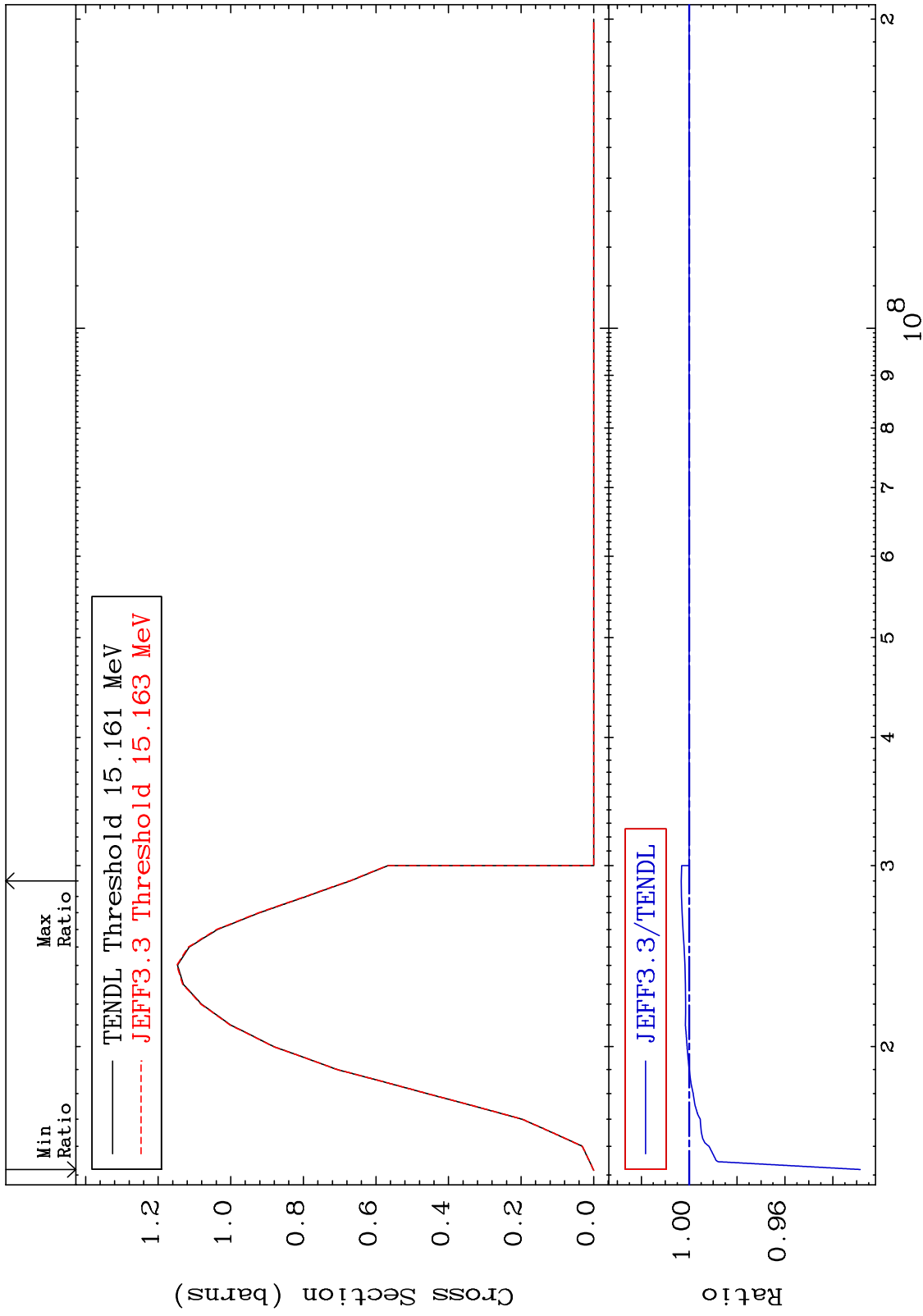
Dpa disappearance (mt102 -120)
Cross Section

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

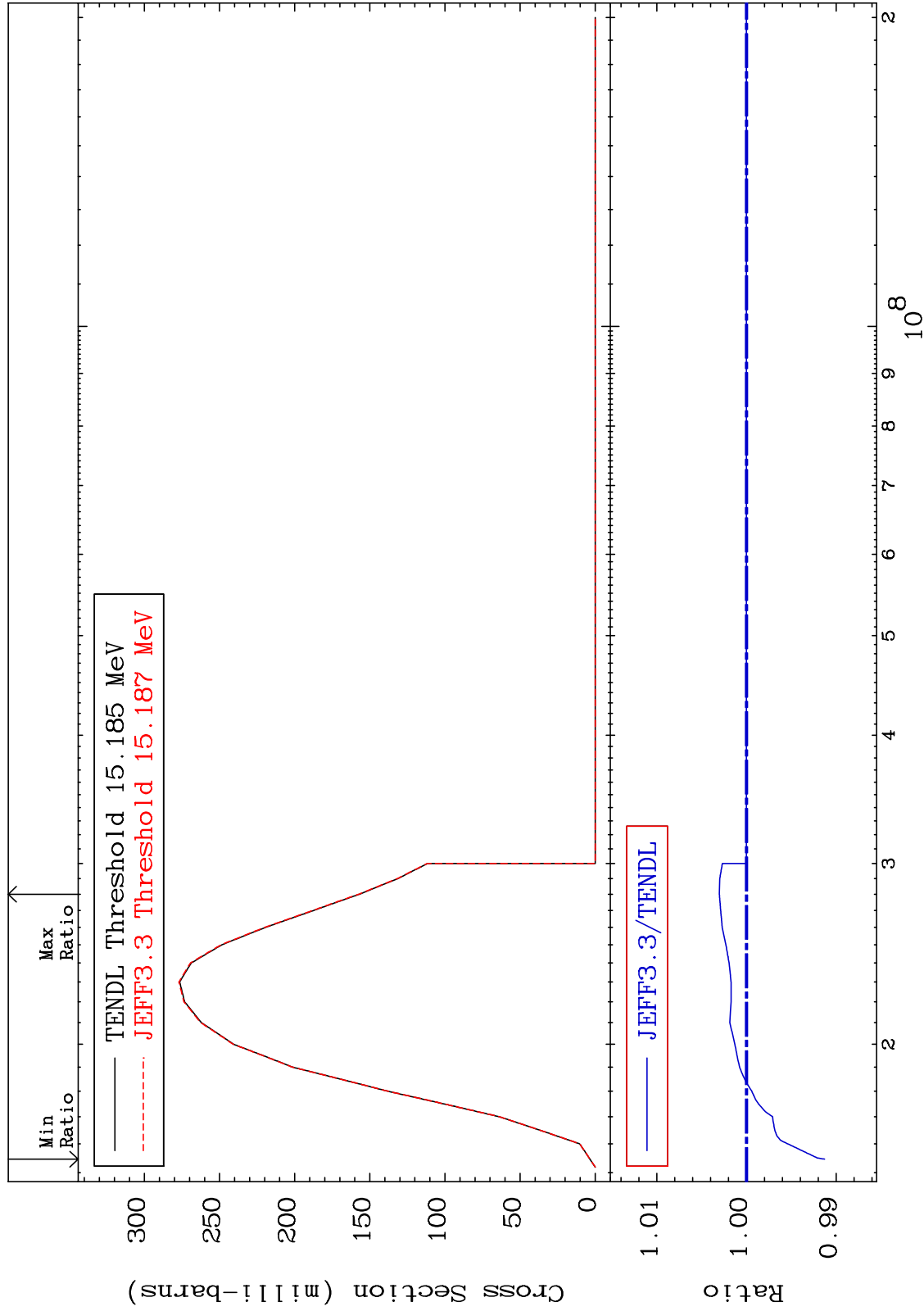
70-Yb-171

MAT 7034

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

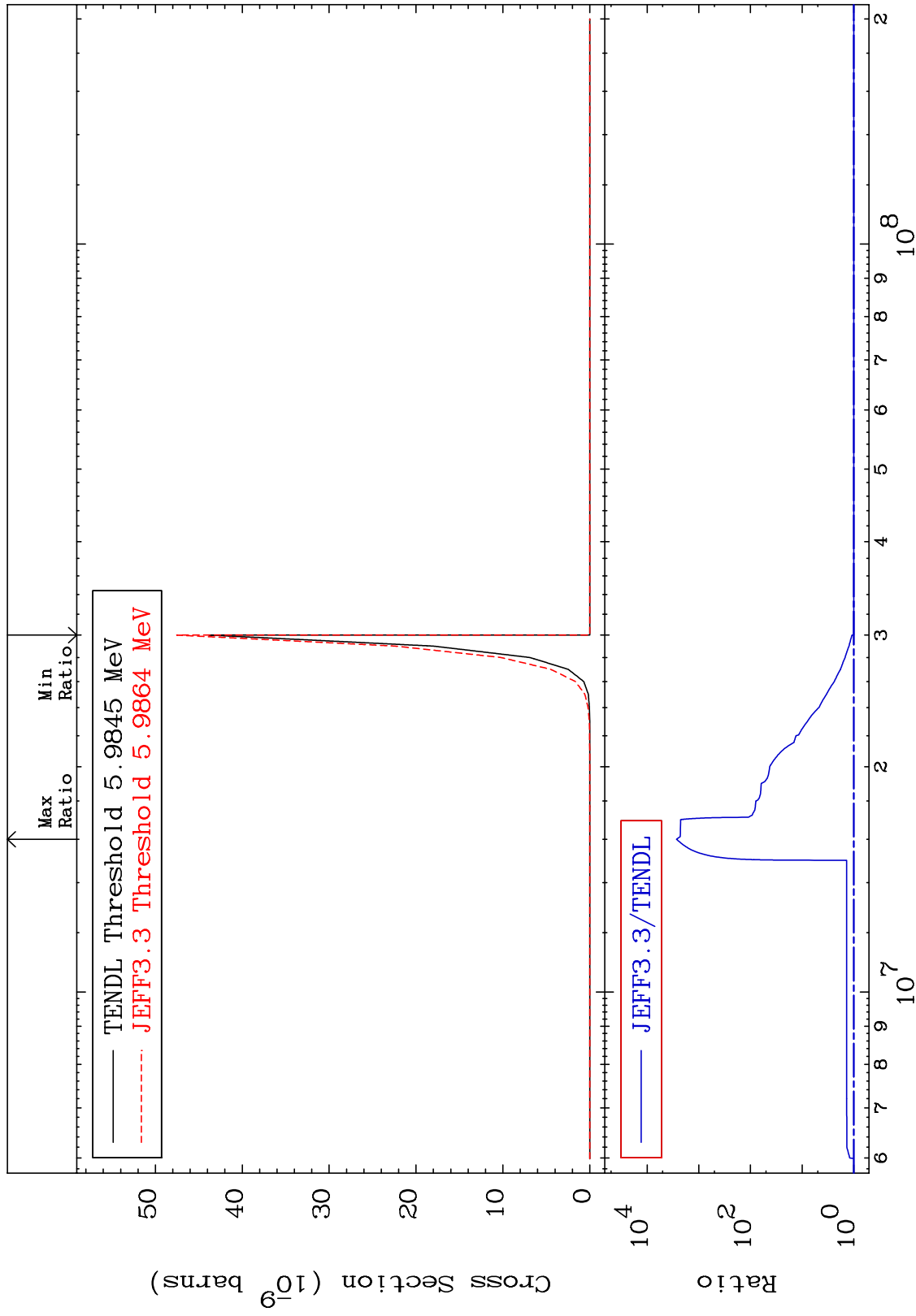
70-Yb-171

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. %

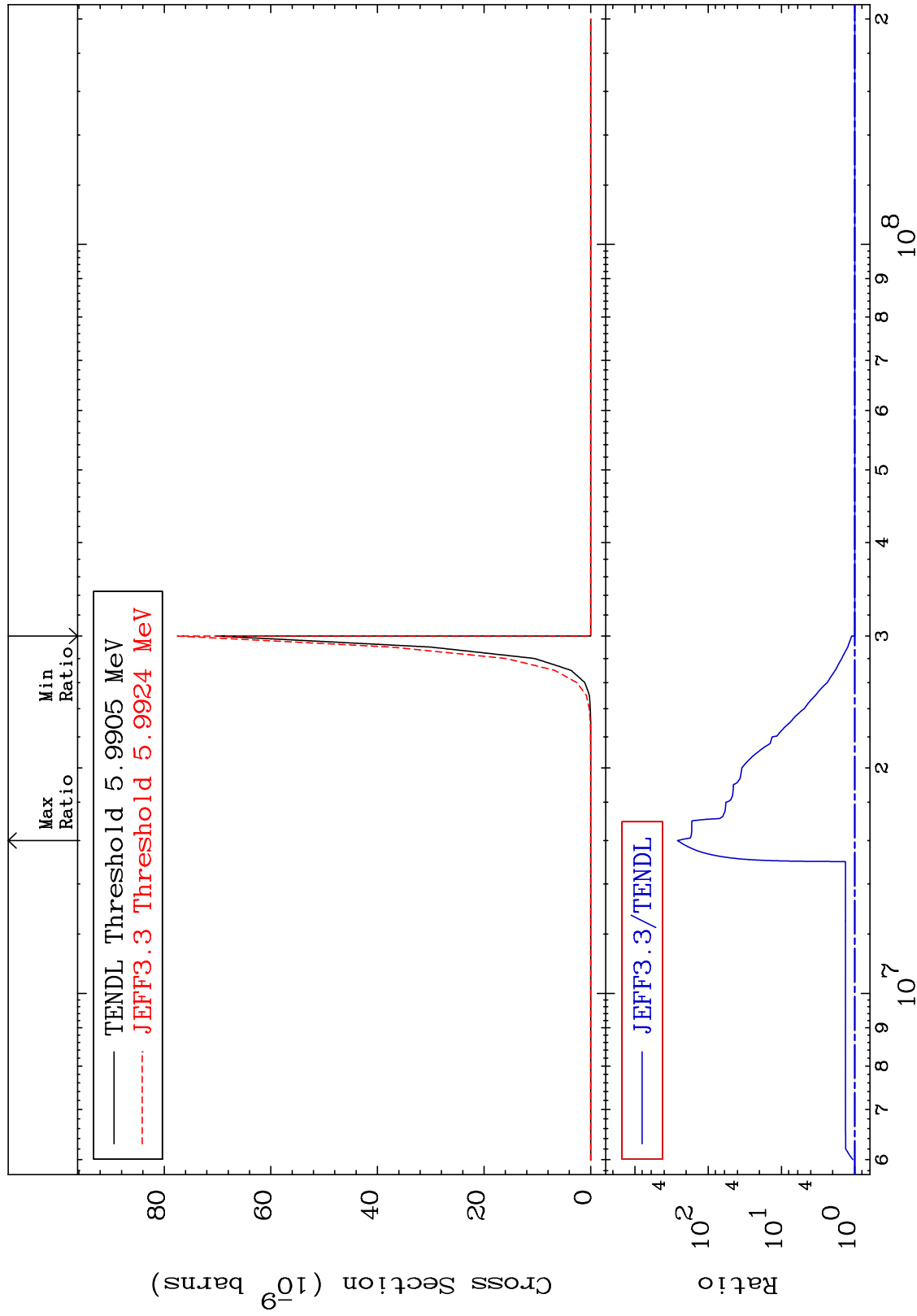


MAT 7034

(n,n') p α :67-Ho-166m1

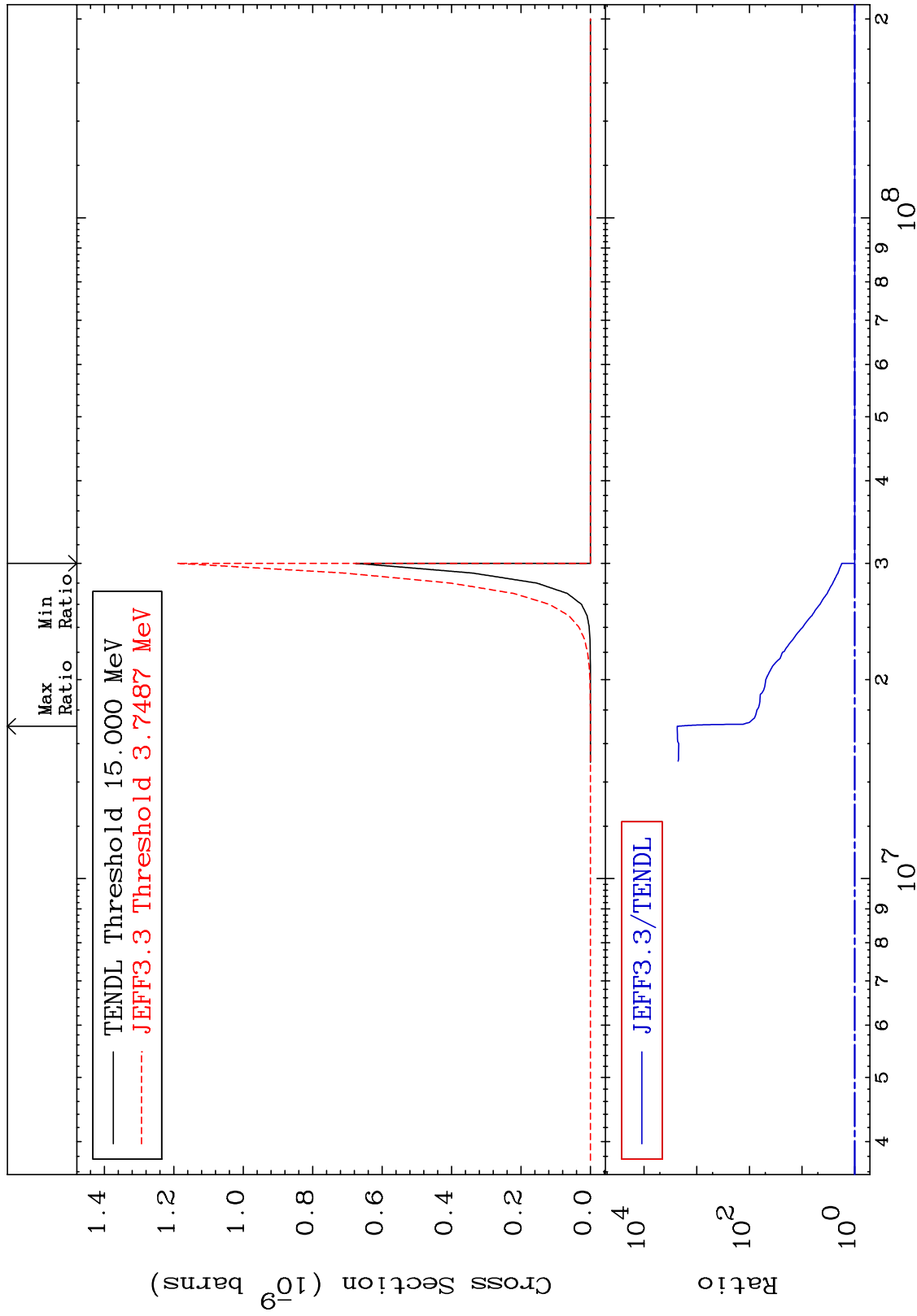
70-Yb-171

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. %

