

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

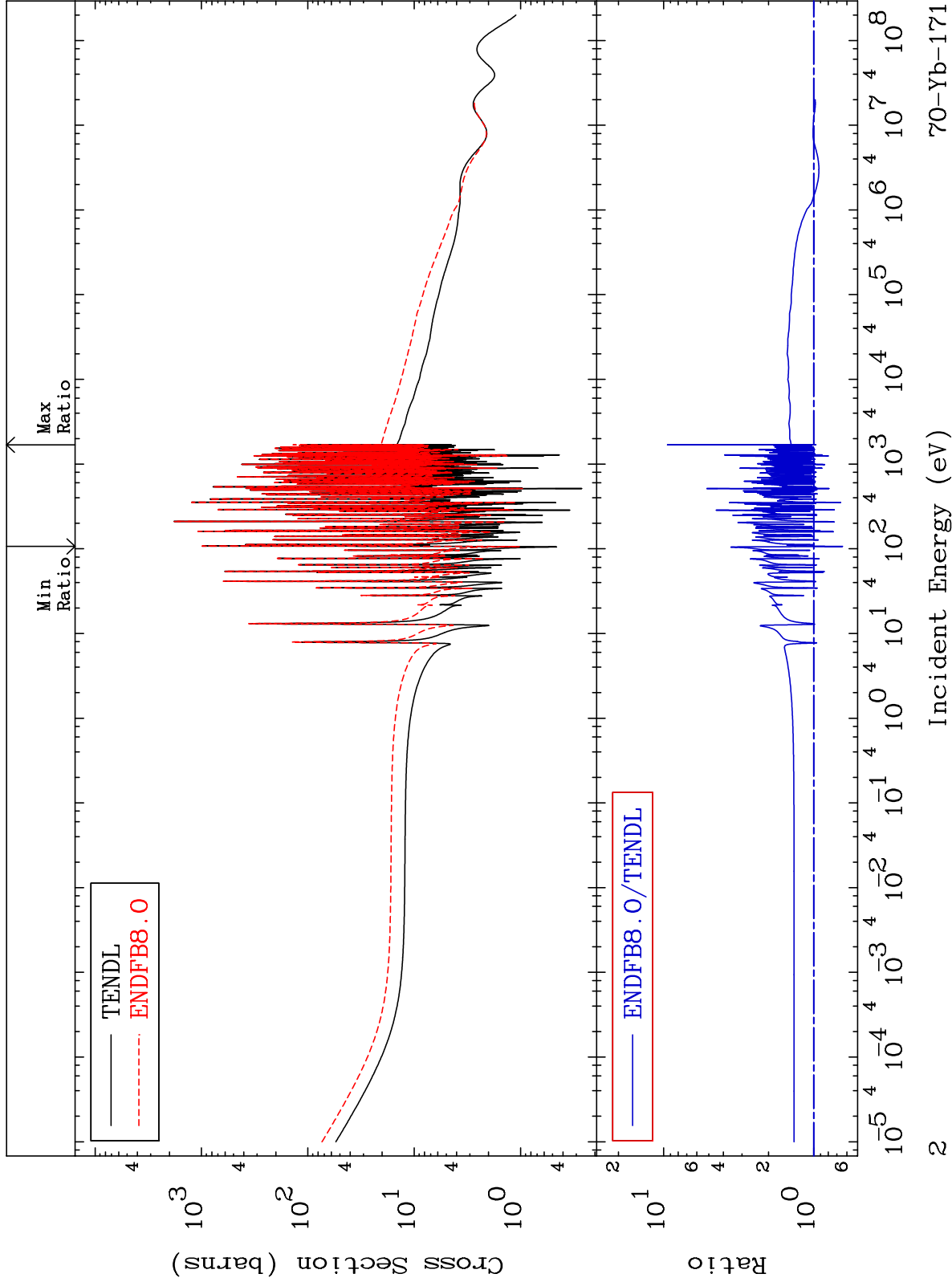
MAT 7034

Elastic

Cross Section

70-Yb-171

-35.93 To 840.8 %



Incident Energy (eV)

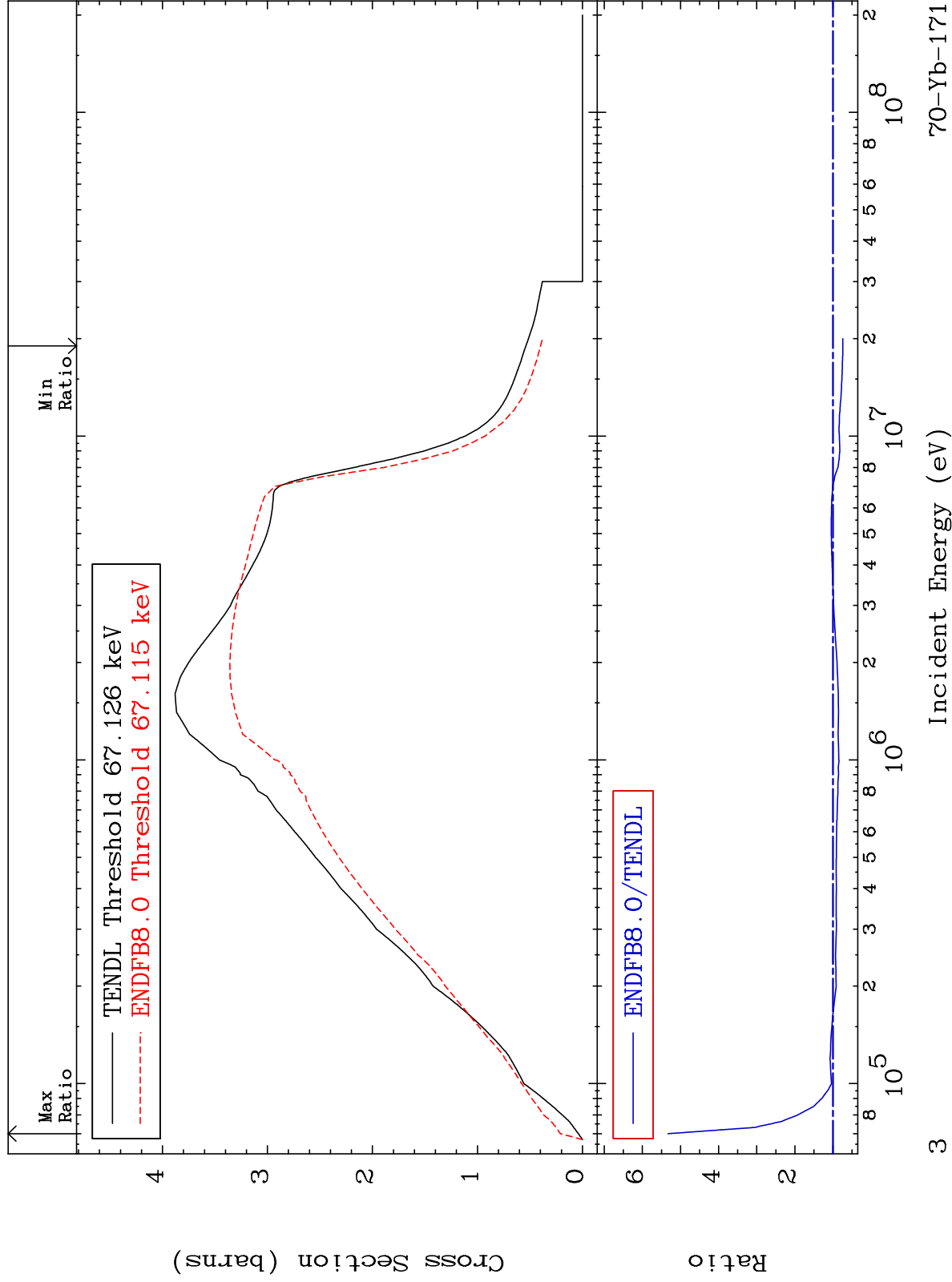
70-Yb-171

2

MAT 7034

Inelastic
Cross Section

70-Yb-171
-25.91 To 432.8 %



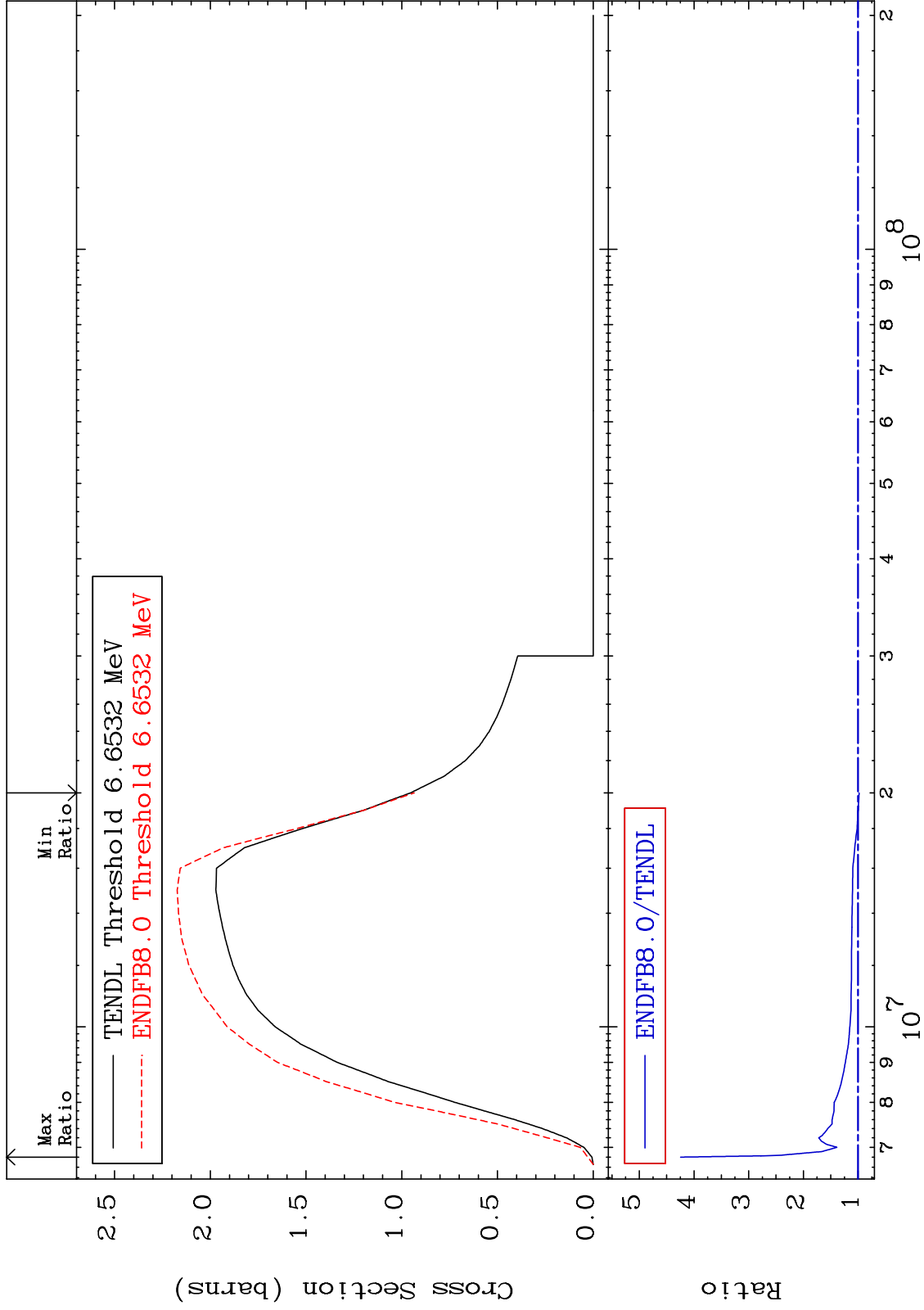
MAT 7034

(n,2n)

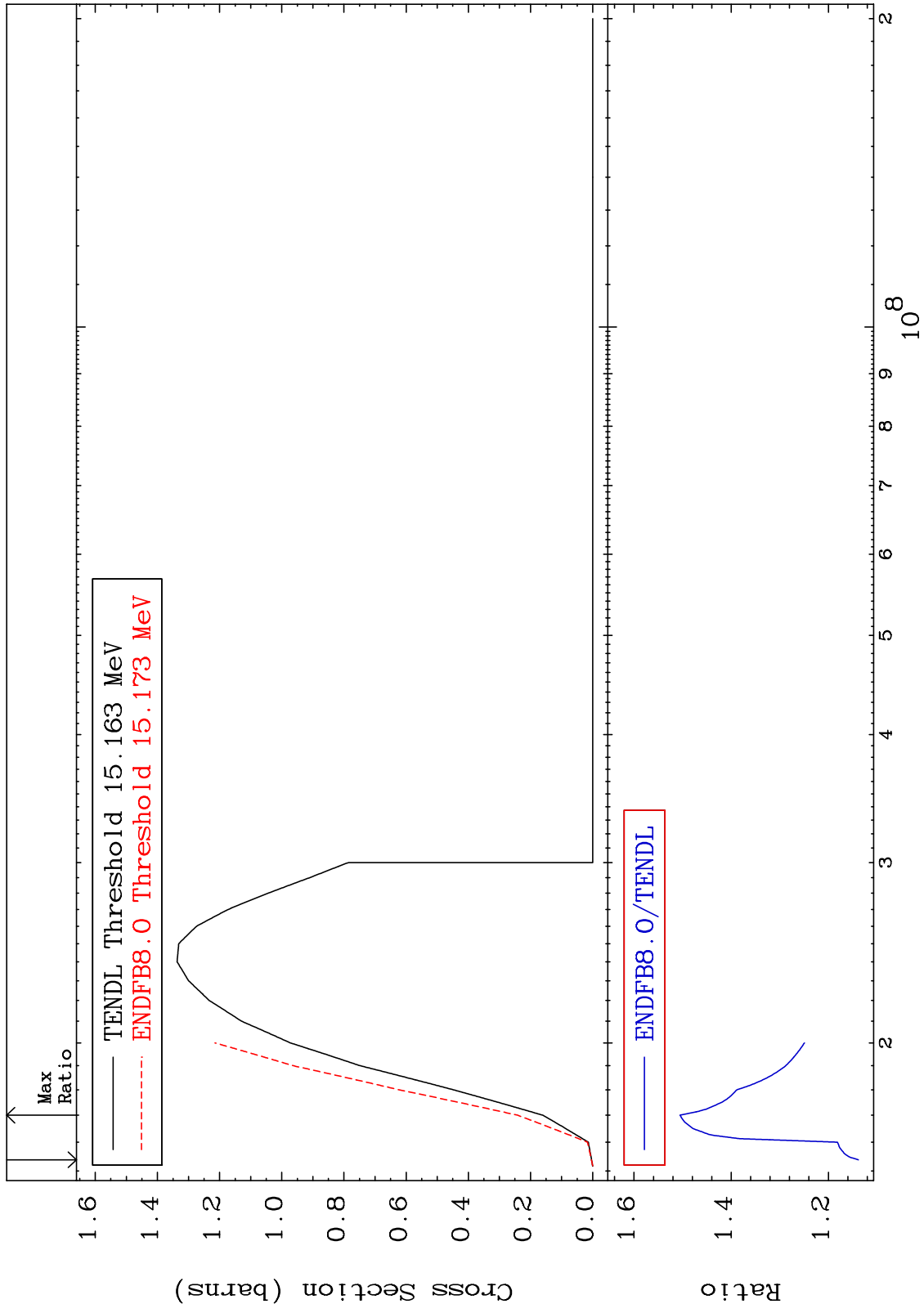
⁷⁰Yb-171

-1.960 To 324.4 %

Cross Section



MAT 7034 (n,3n) Cross Section 70-Yb-171 13.82 To 50.53 %



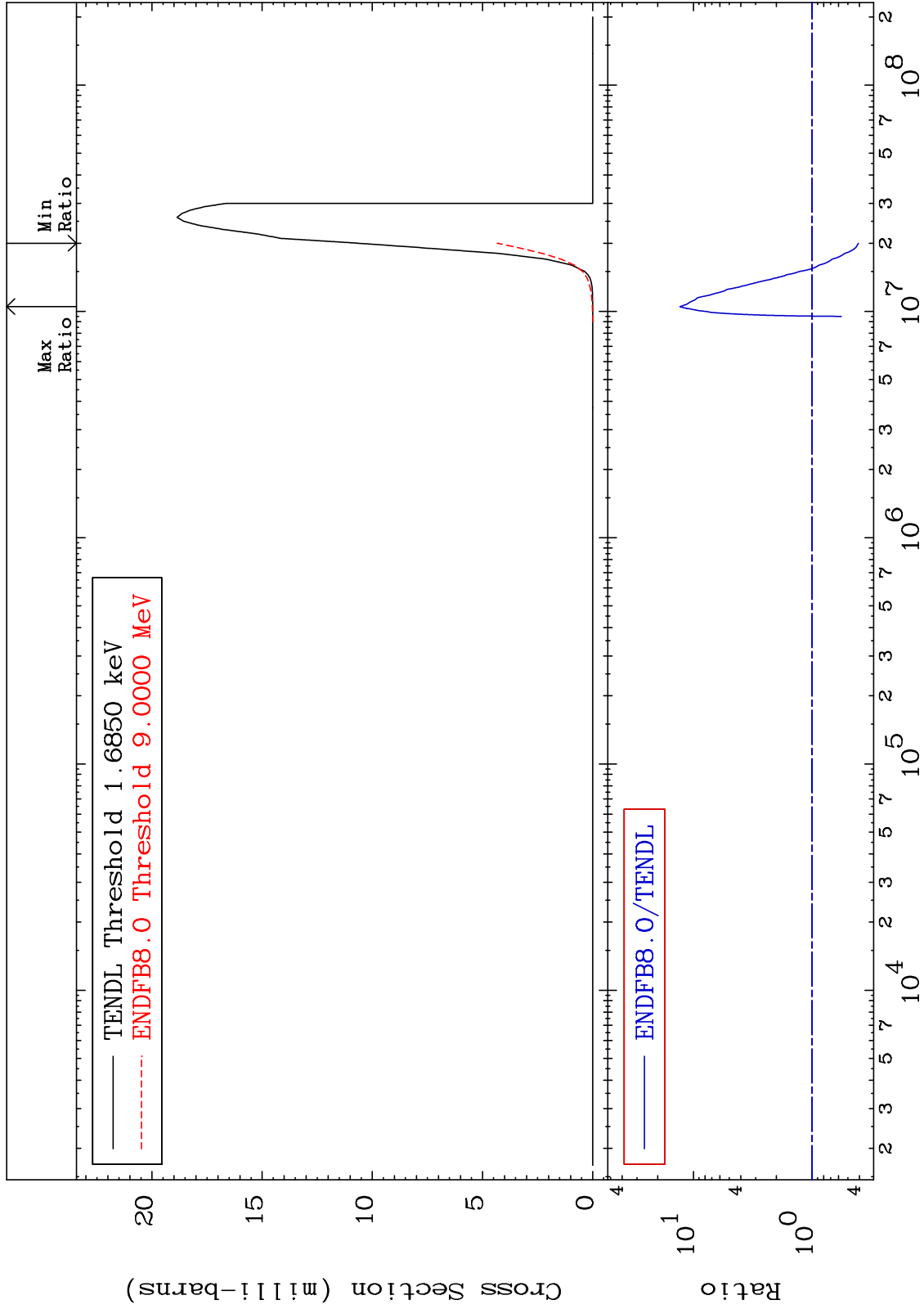
5 Incident Energy (eV) 70-Yb-171

MAT 7034

(n, n') α

Cross Section

70-Yb-171
-59.23 To 1200. %



6

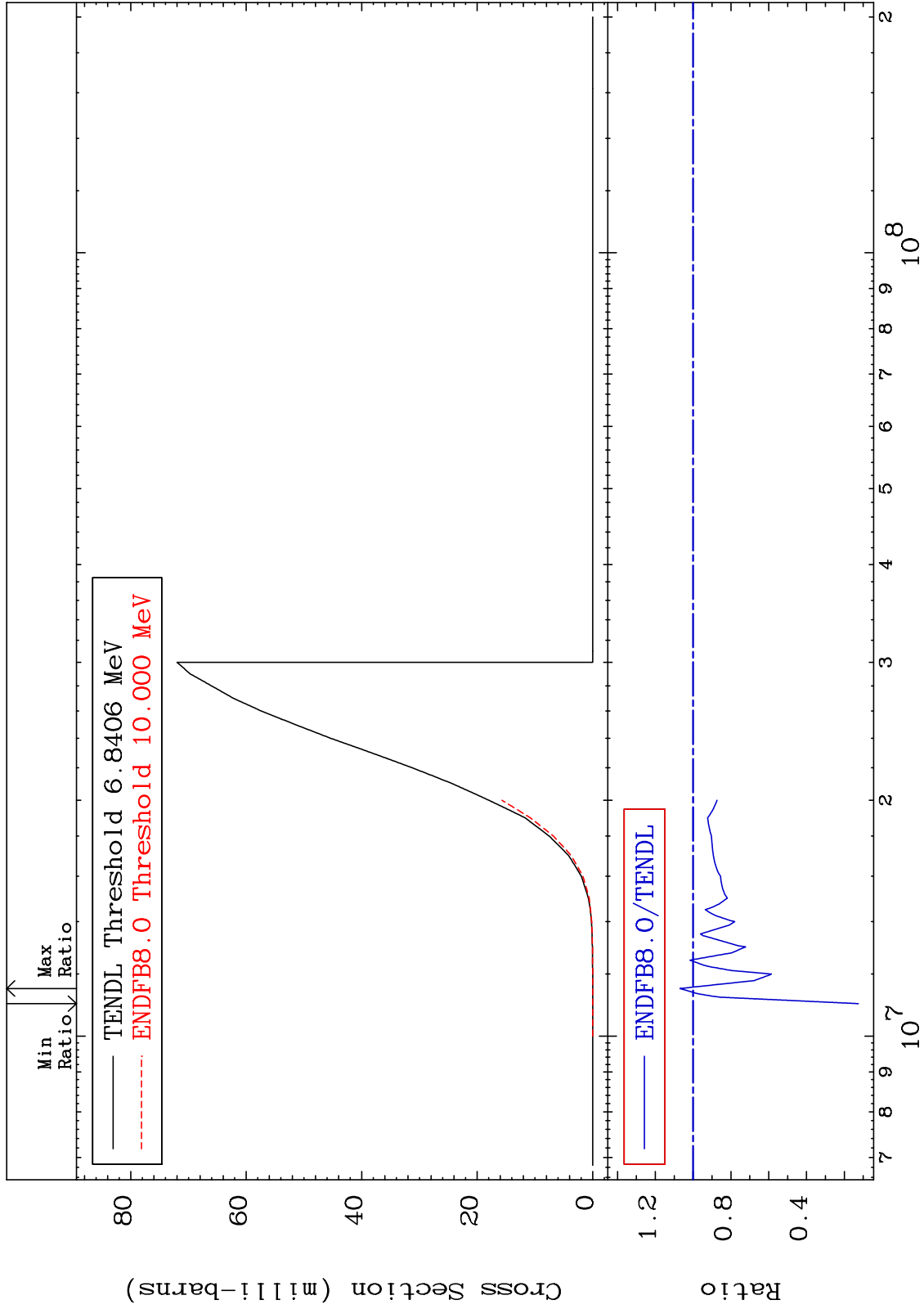
Incident Energy (eV)

70-Yb-171

MAT 7034

(n,n') p
Cross Section

70-Yb-171
-87.46 To 6.932 %



7

Incident Energy (eV)

70-Yb-171

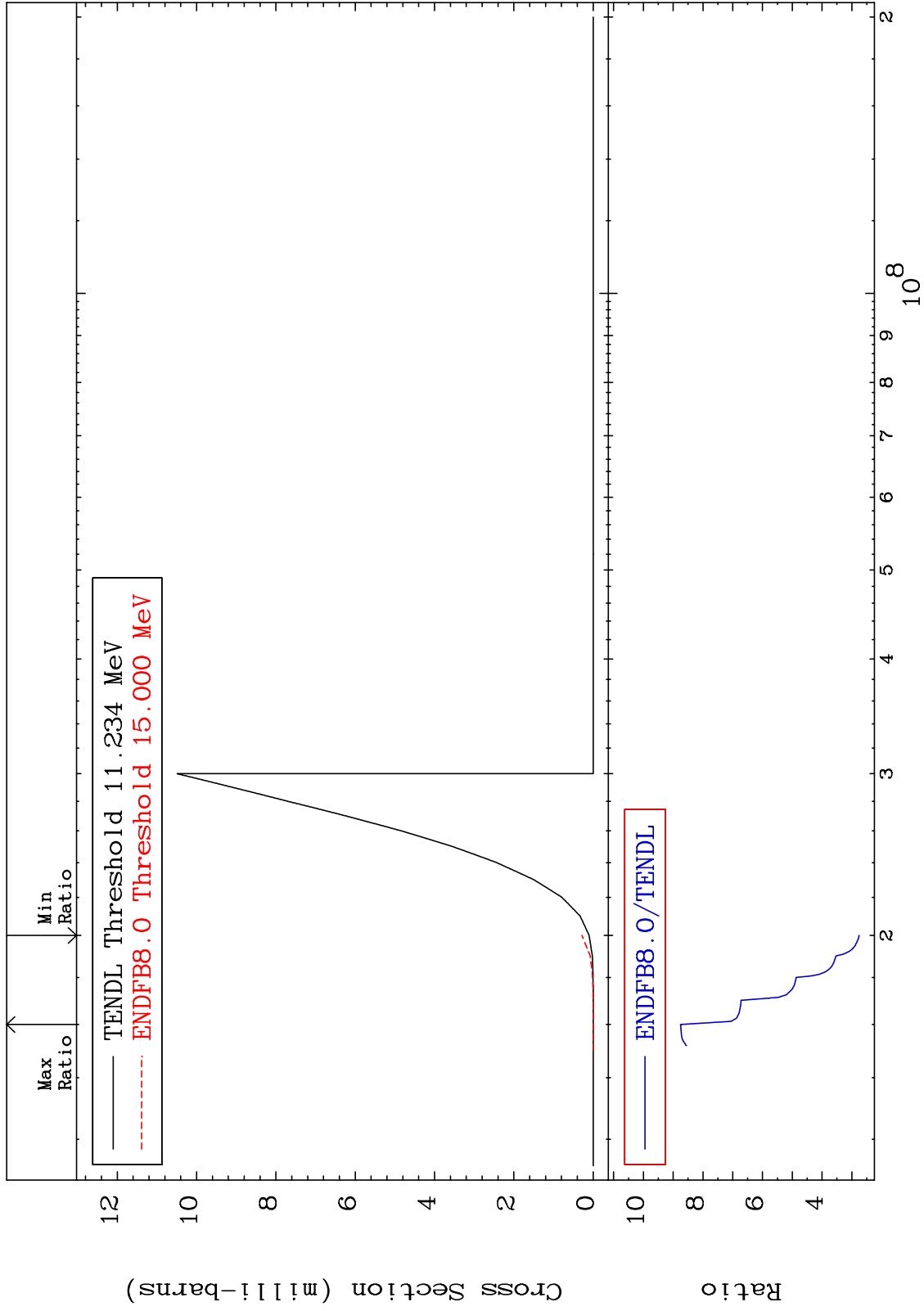
MAT 7034

(n,n') d

70-Yb-171

Cross Section

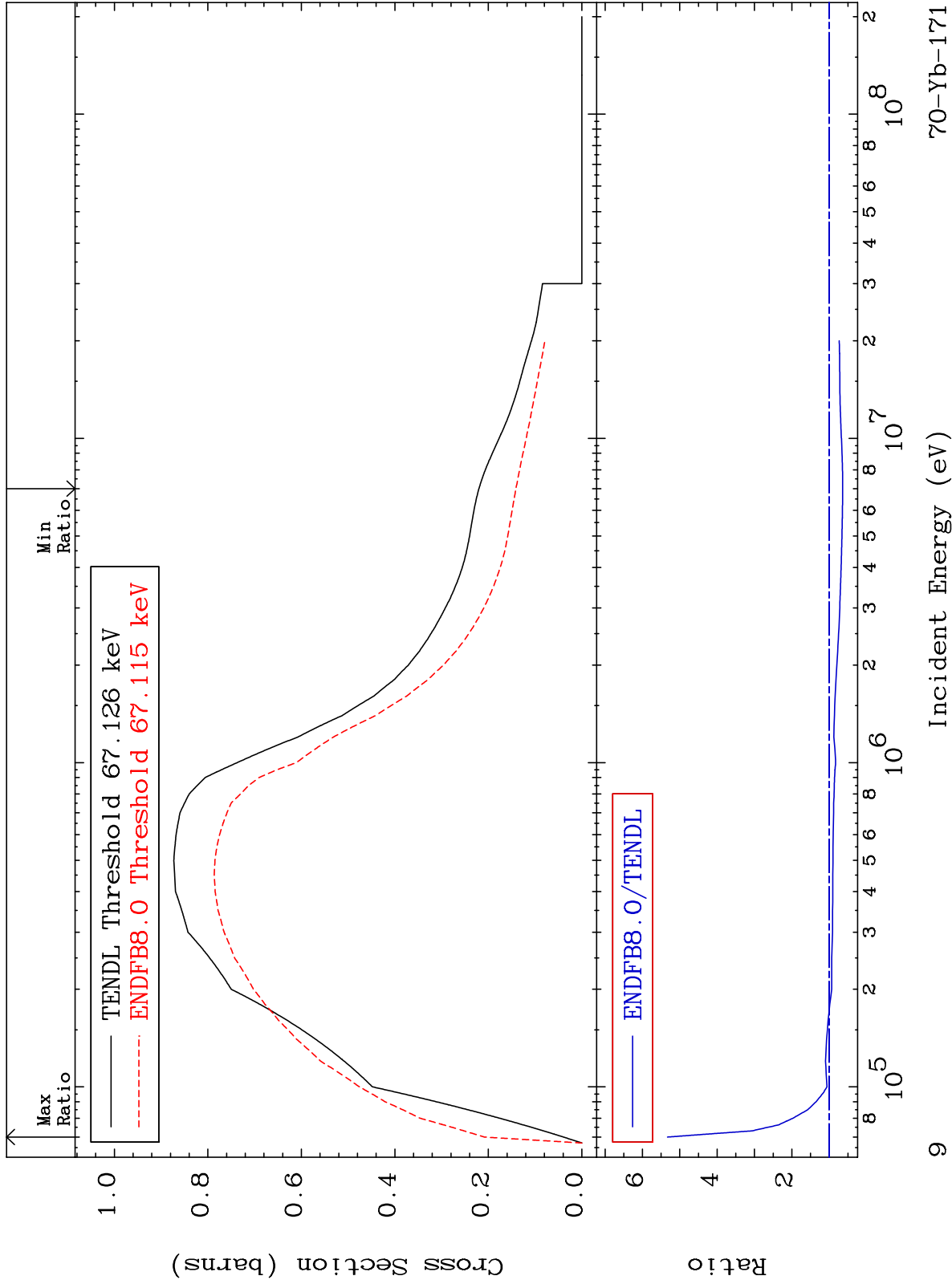
175.3 To 775.0 %



MAT 7034

MT= 51 (n,n') Level
Cross Section

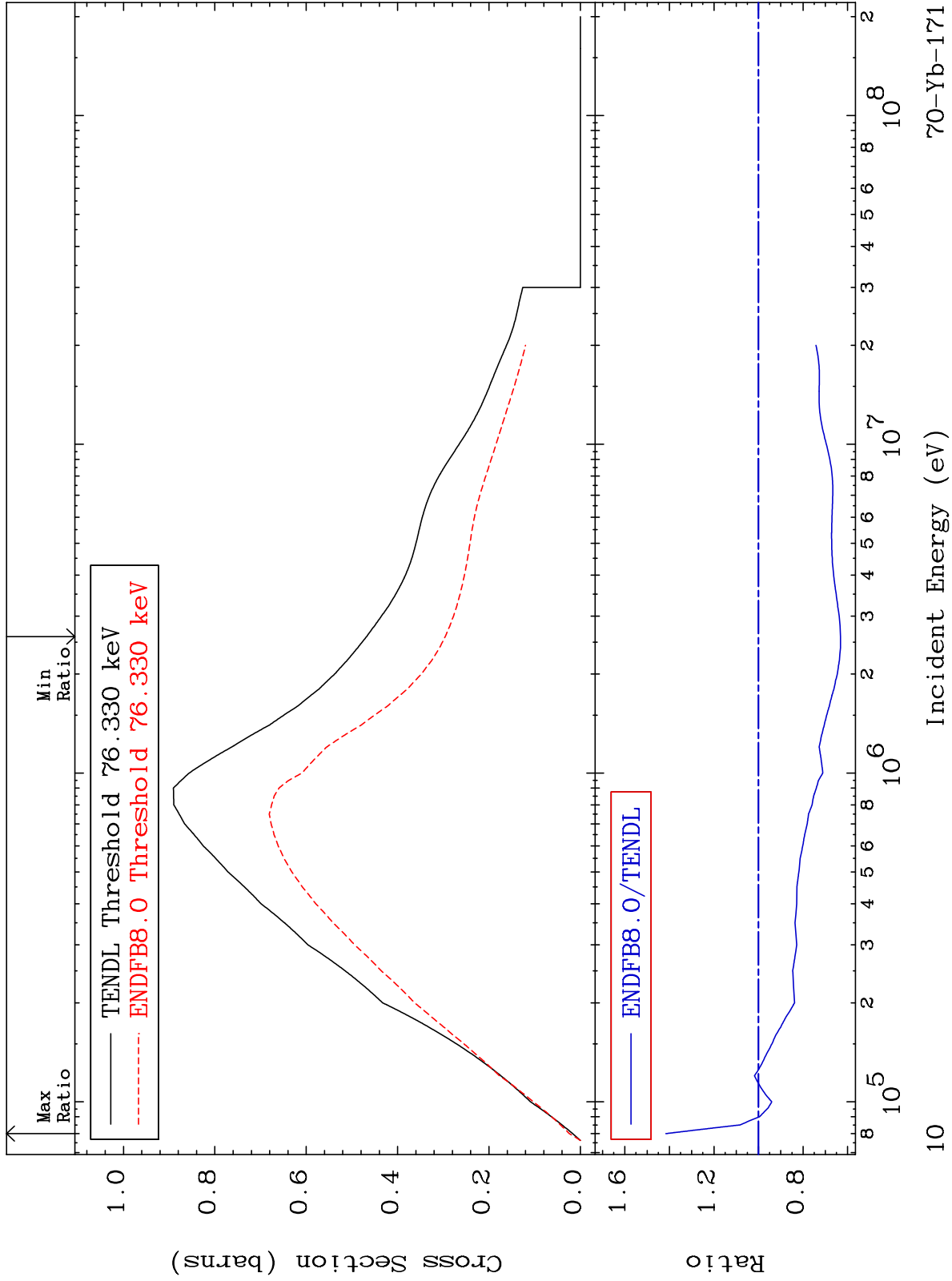
70-Yb-171
-35.97 To 432.8 %



MAT 7034

MT= 52 (n,n') Level
Cross Section

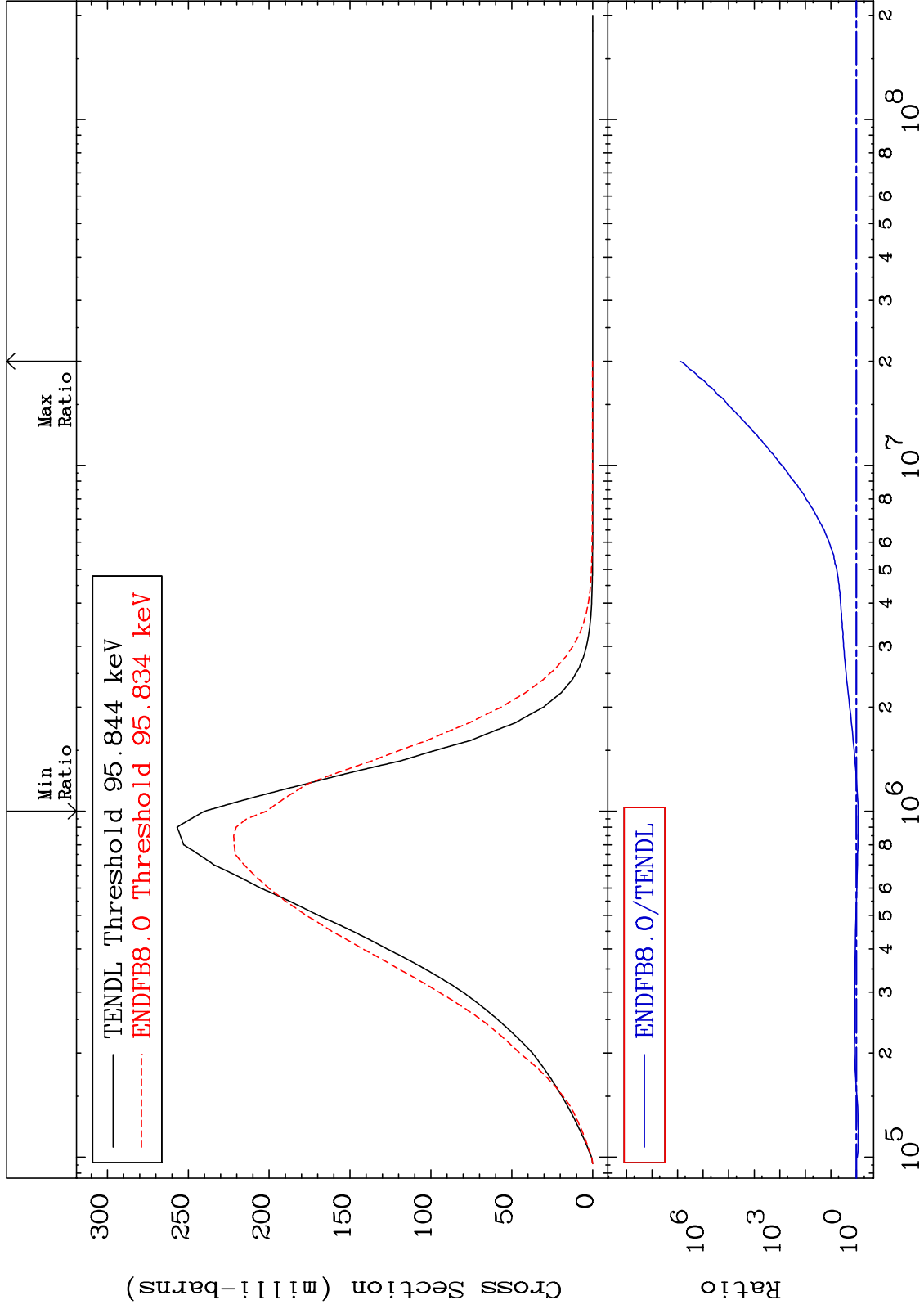
70-Yb-171
-36.82 To 41.59 %



MAT 7034

MT= 53 (n,n') Level
Cross Section

70-Yb-171
-15.91 To 9999. %



11

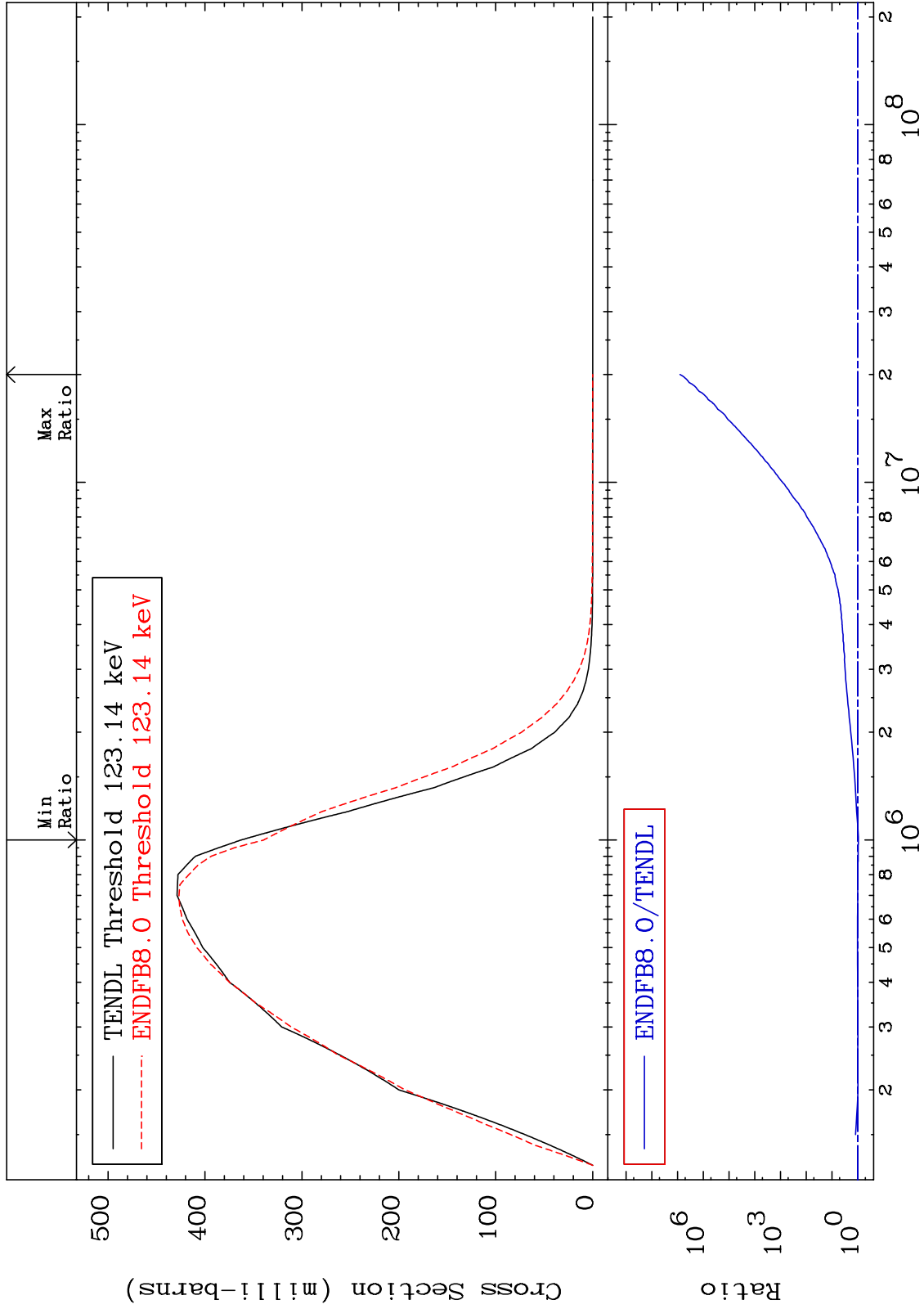
Incident Energy (eV)

70-Yb-171

MAT 7034

MT= 54 (n,n') Level
Cross Section

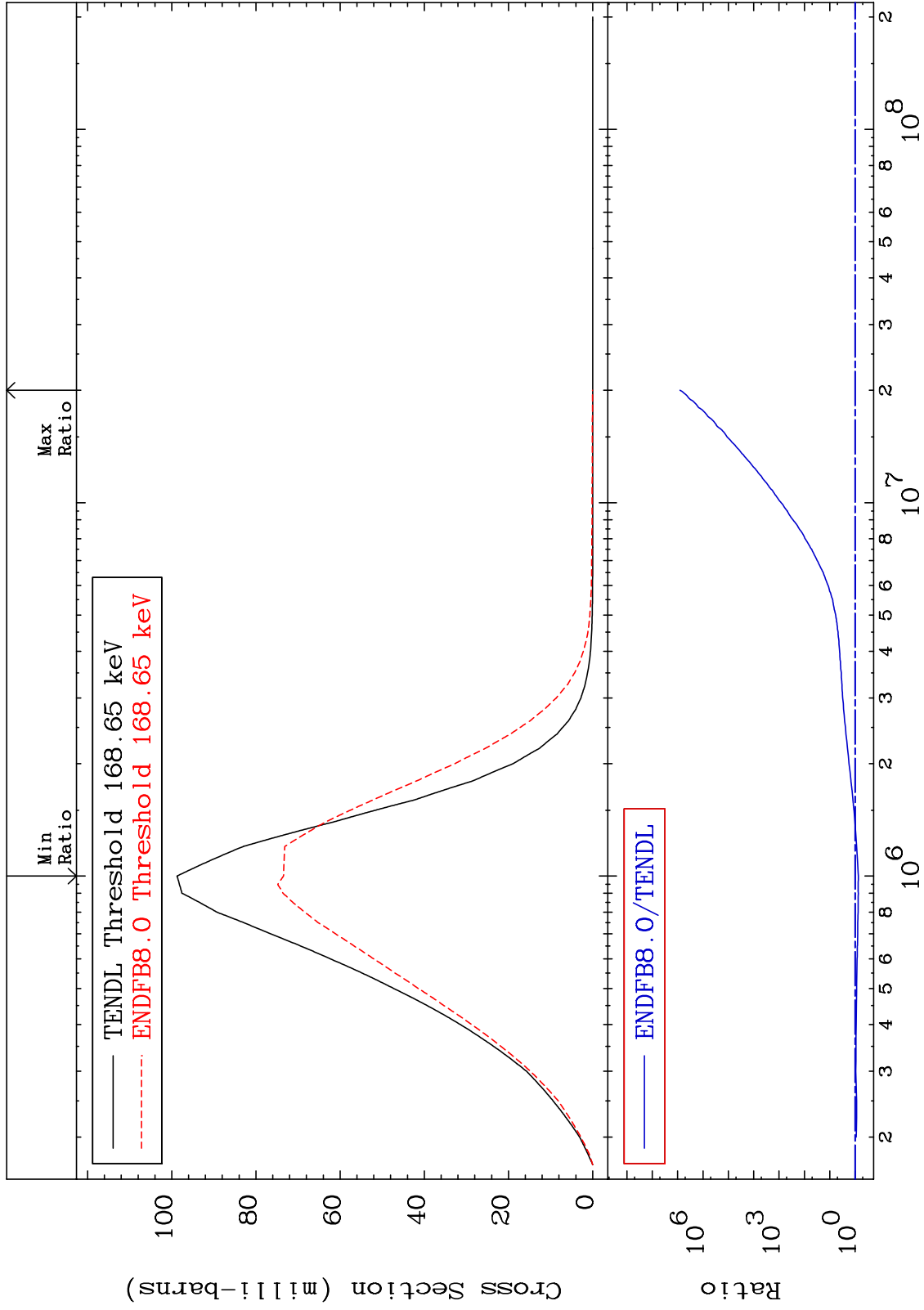
70-Yb-171
-6.377 To 9999. %



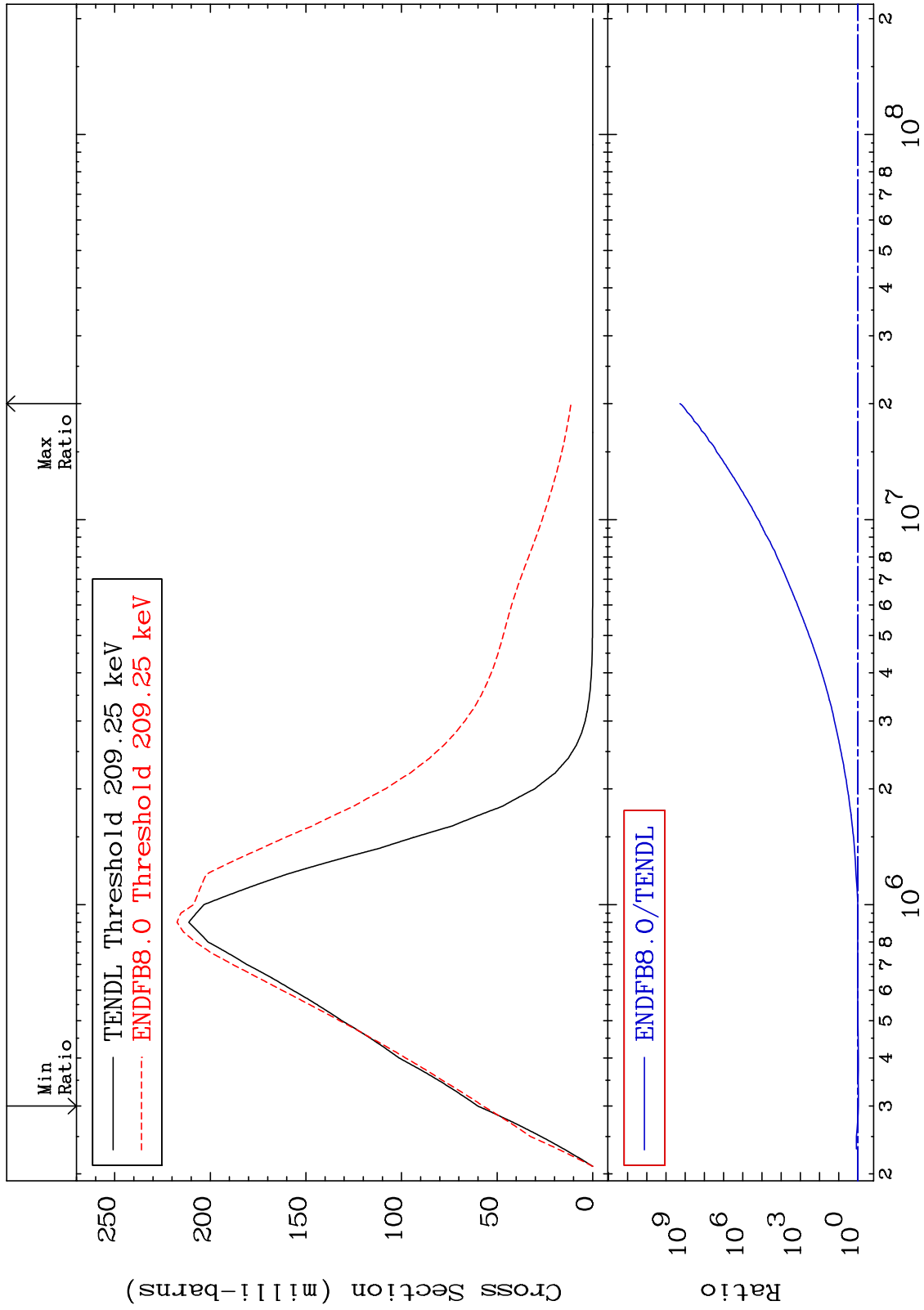
MAT 7034

MT= 55 (n,n') Level
Cross Section

70-Yb-171
-25.62 To 9999. %



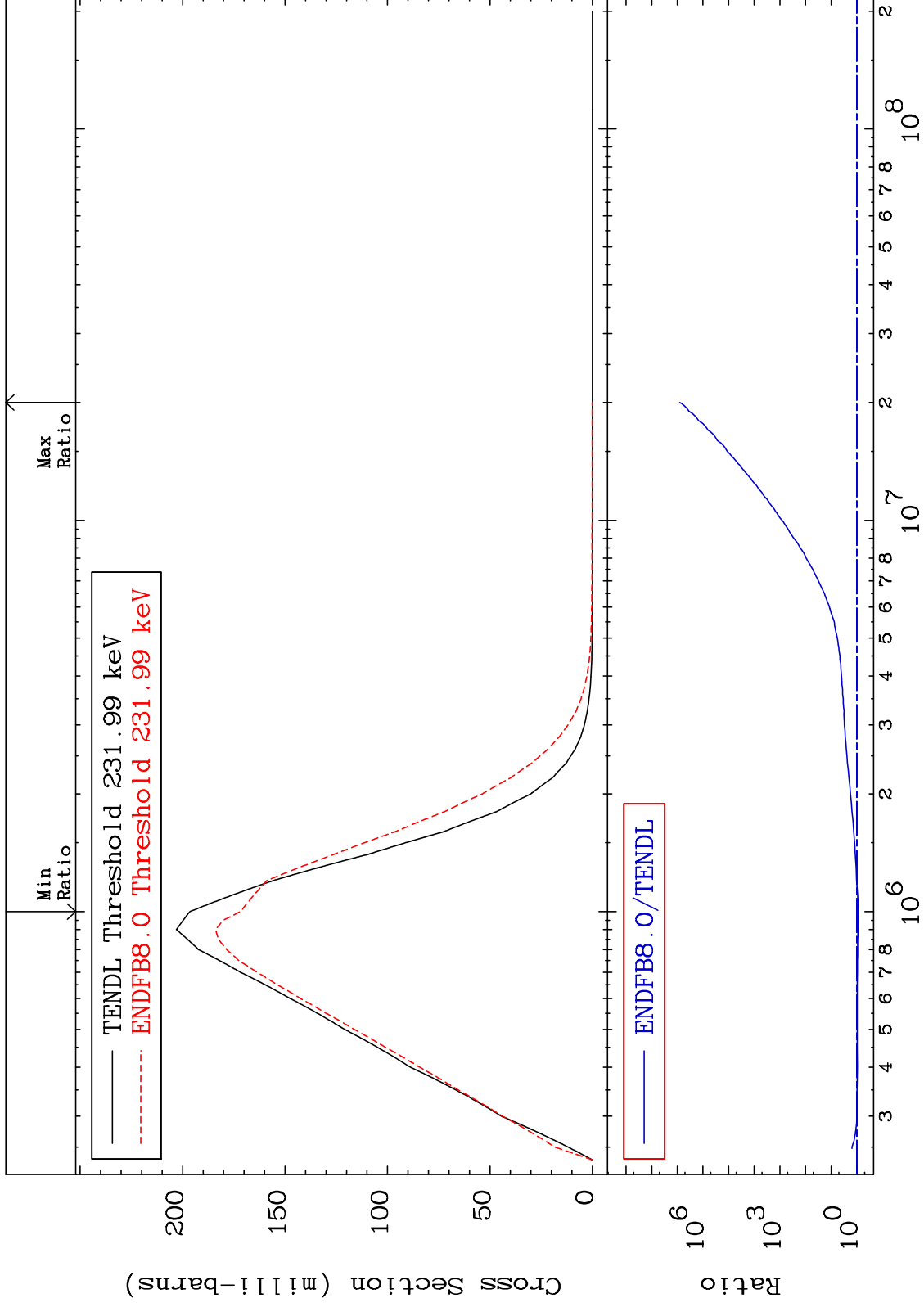
MAT 7034 MT= 56 (n,n') Level 70-Yb-171
 Cross Section -4.548 To 9999. %



MAT 7034

MT= 57 (n,n') Level
Cross Section

70-Yb-171
-12.57 To 9999. %



15

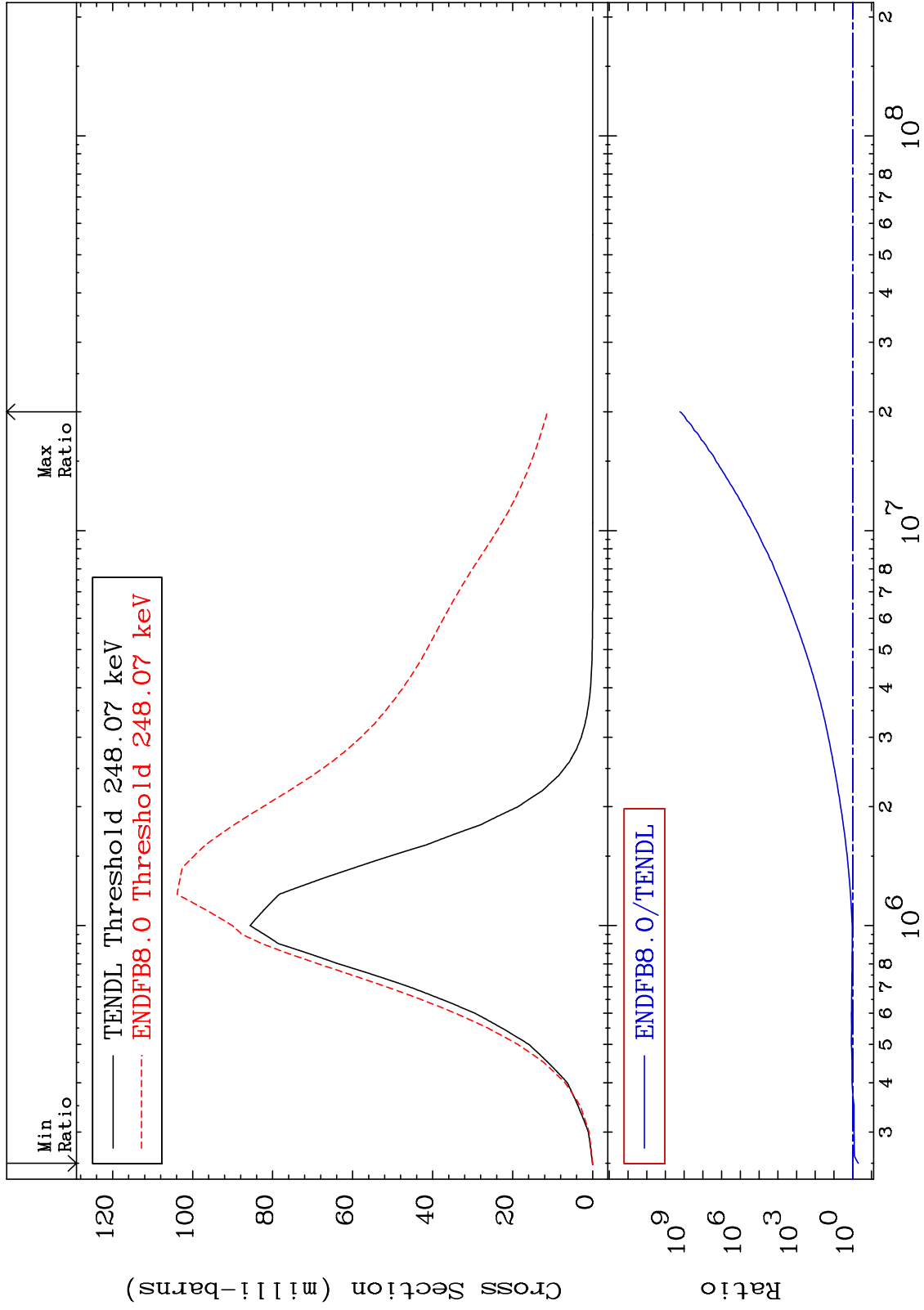
Incident Energy (eV)

70-Yb-171

MAT 7034

MT= 58 (n,n') Level
Cross Section

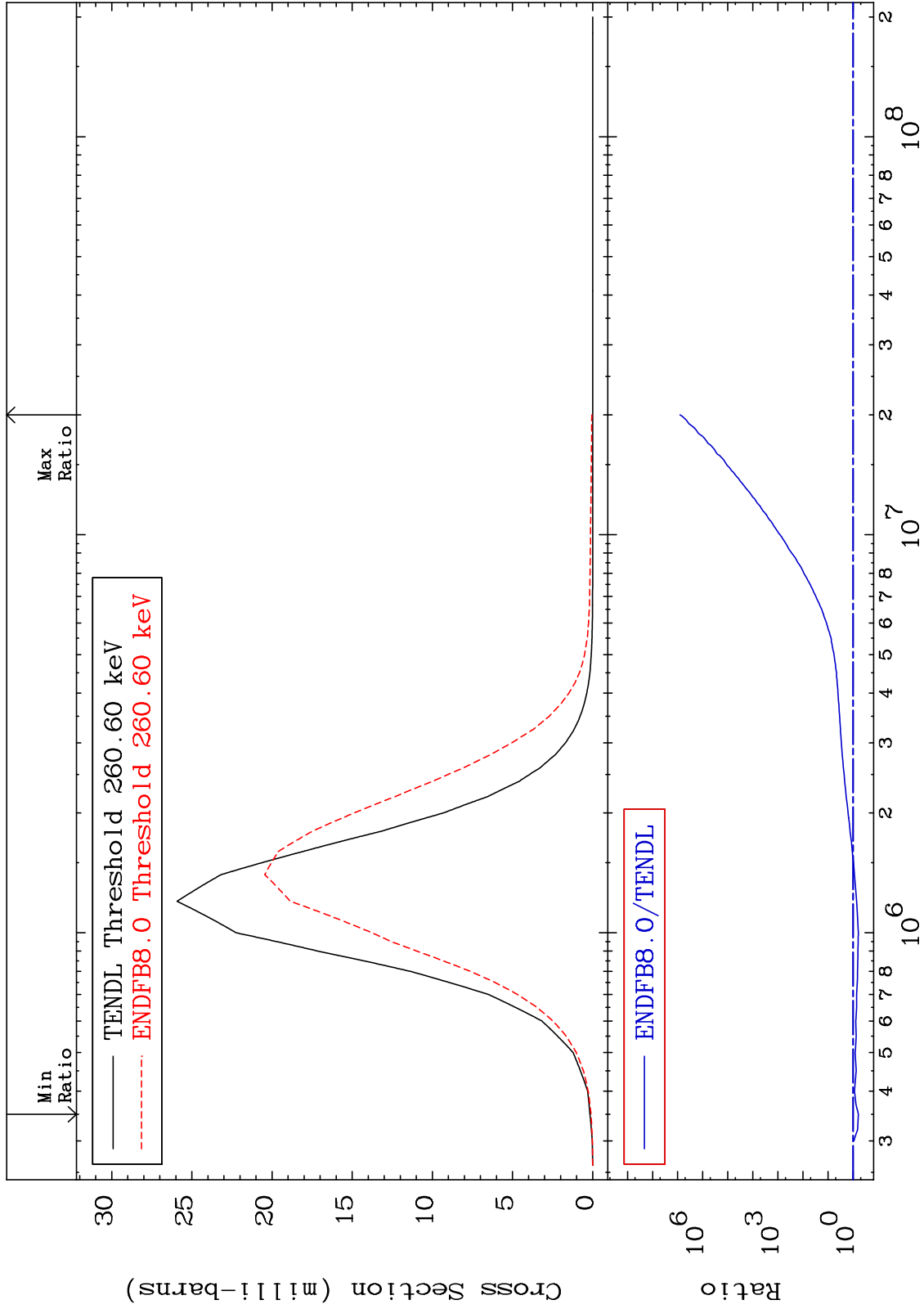
70-Yb-171
-50.38 To 9999. %



MAT 7034

MT= 59 (n,n') Level
Cross Section

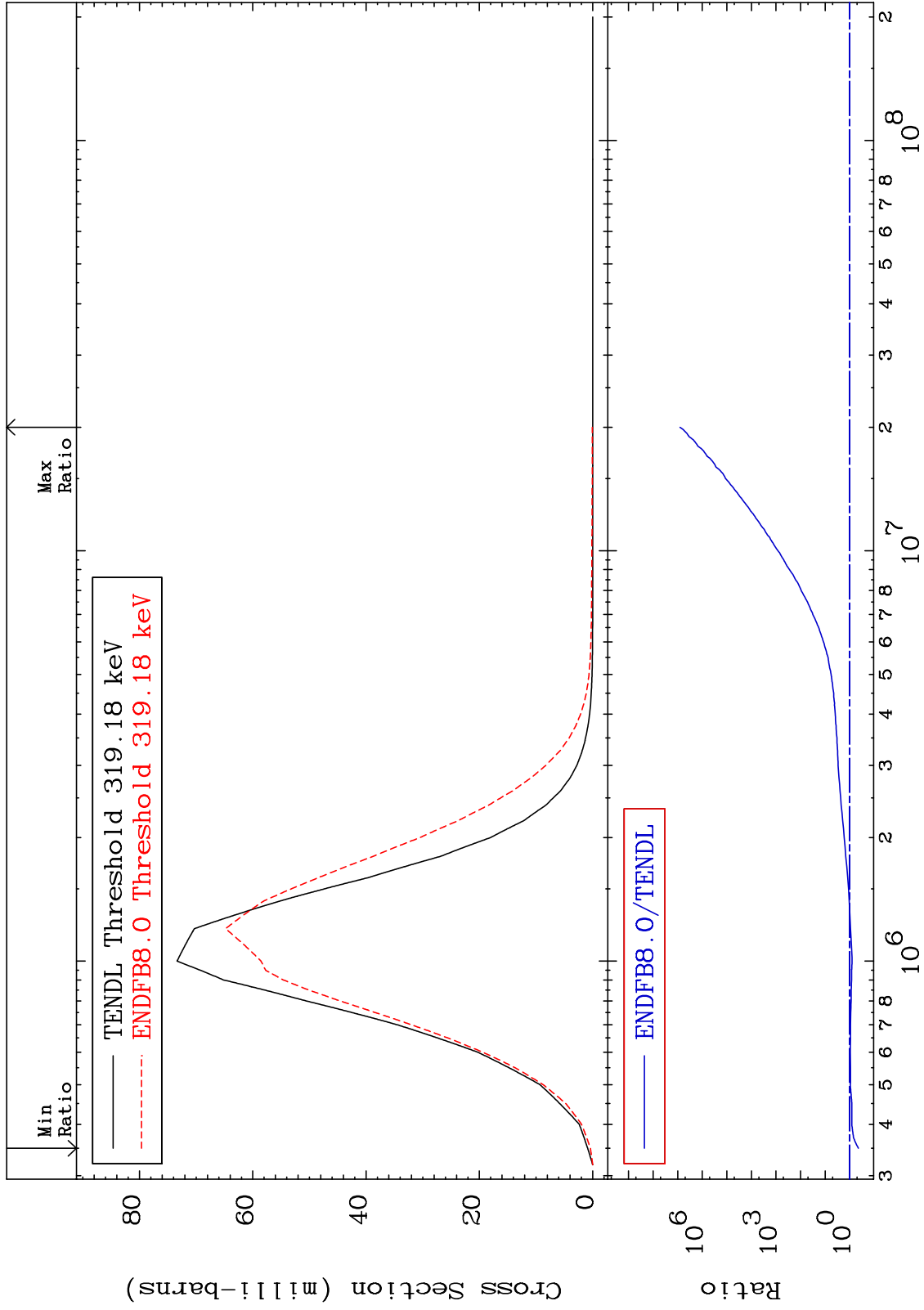
70-Yb-171
-38.33 To 9999. %



MAT 7034

MT= 60 (n,n') Level
Cross Section

70-Yb-171
-55.67 To 9999. %



18

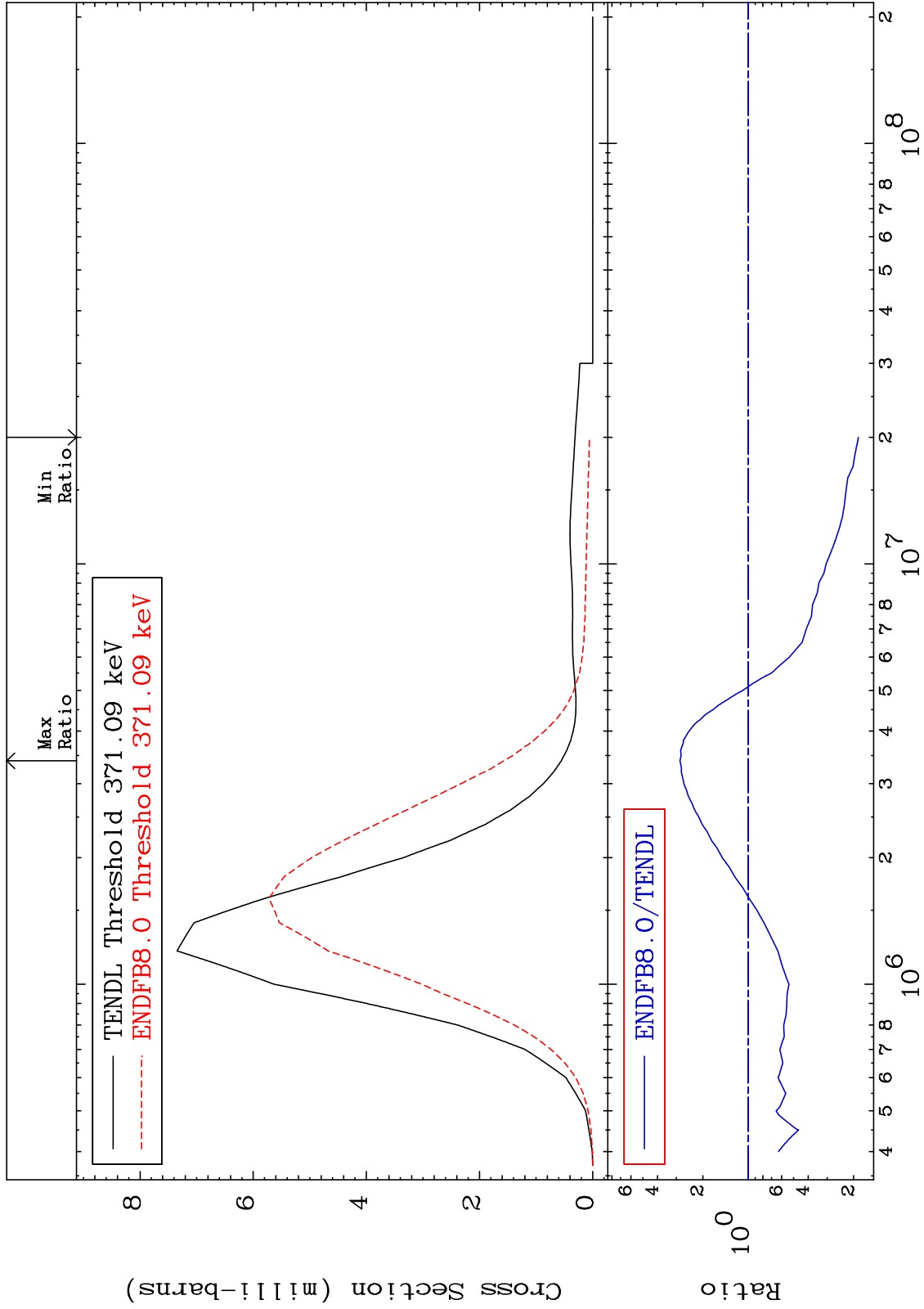
Incident Energy (eV)

70-Yb-171

MAT 7034

MT= 61 (n,n') Level
Cross Section

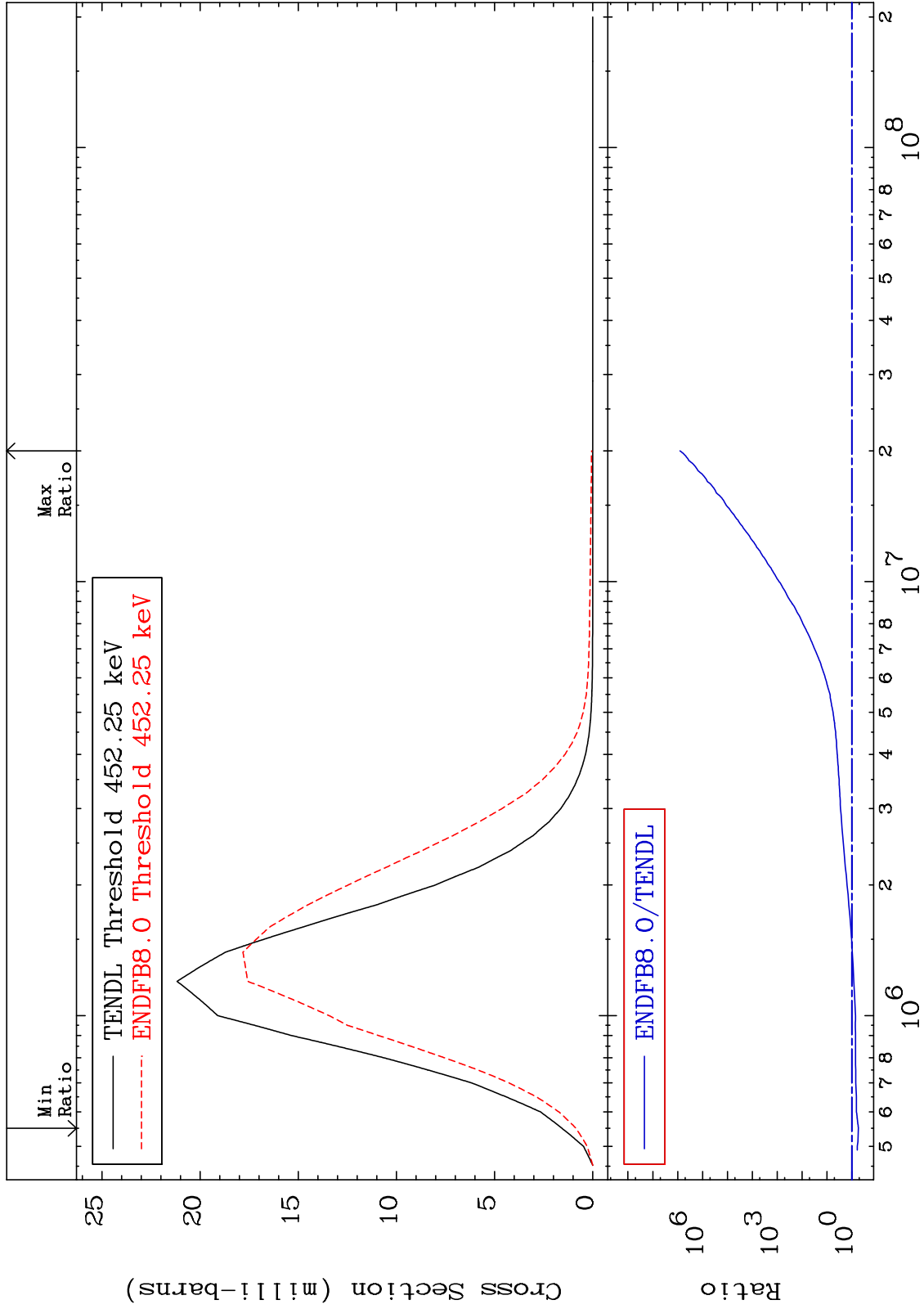
70-Yb-171
-81.40 To 183.2 %



MAT 7034

MT= 62 (n,n') Level
Cross Section

70-Yb-171
-45.78 To 9999. %



20

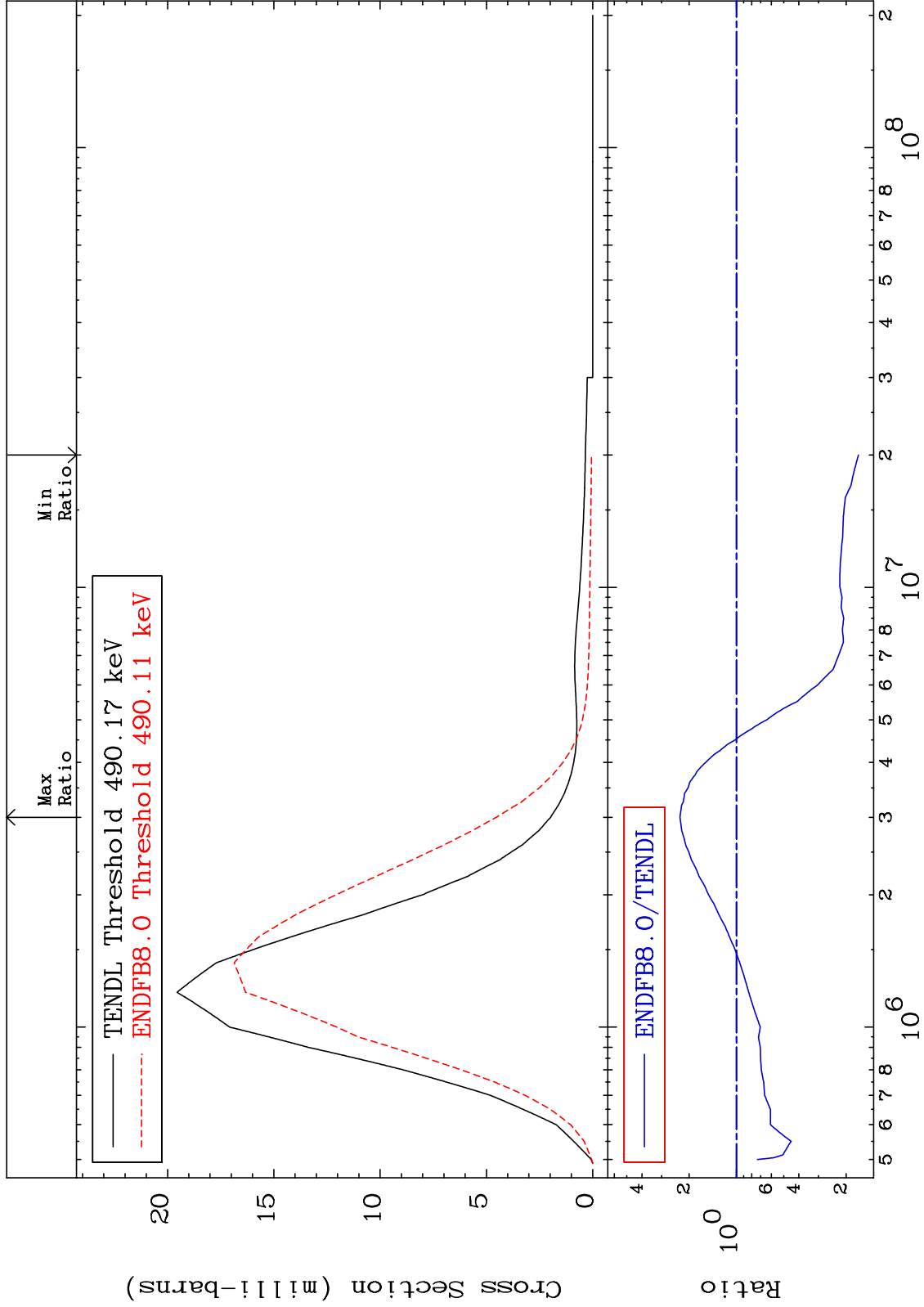
Incident Energy (eV)

70-Yb-171

MAT 7034

MT= 63 (n,n') Level
Cross Section

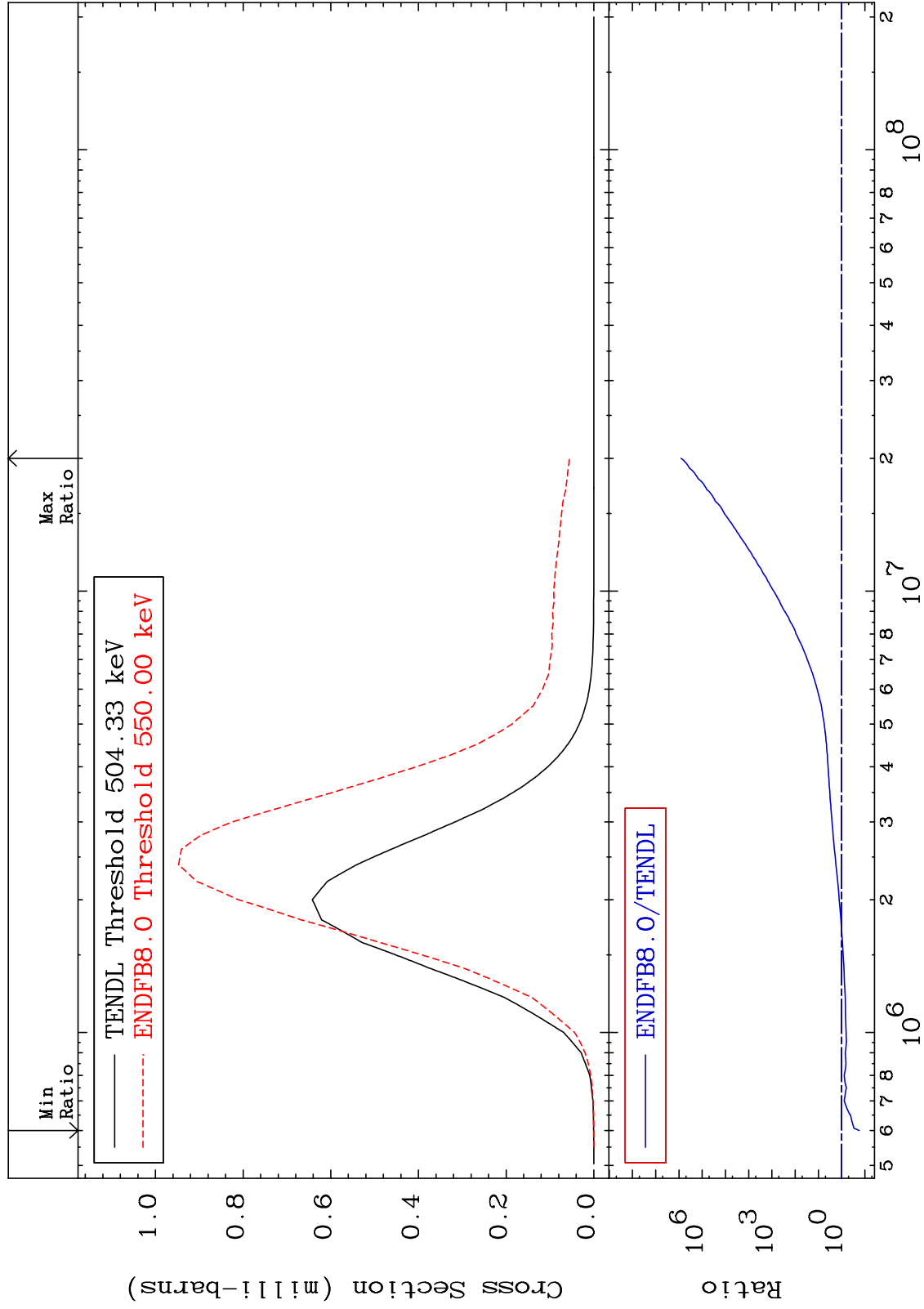
70-Yb-171
-83.30 To 128.9 %



MAT 7034

MT= 64 (n,n') Level
Cross Section

70-Yb-171
-82.58 To 9999. %



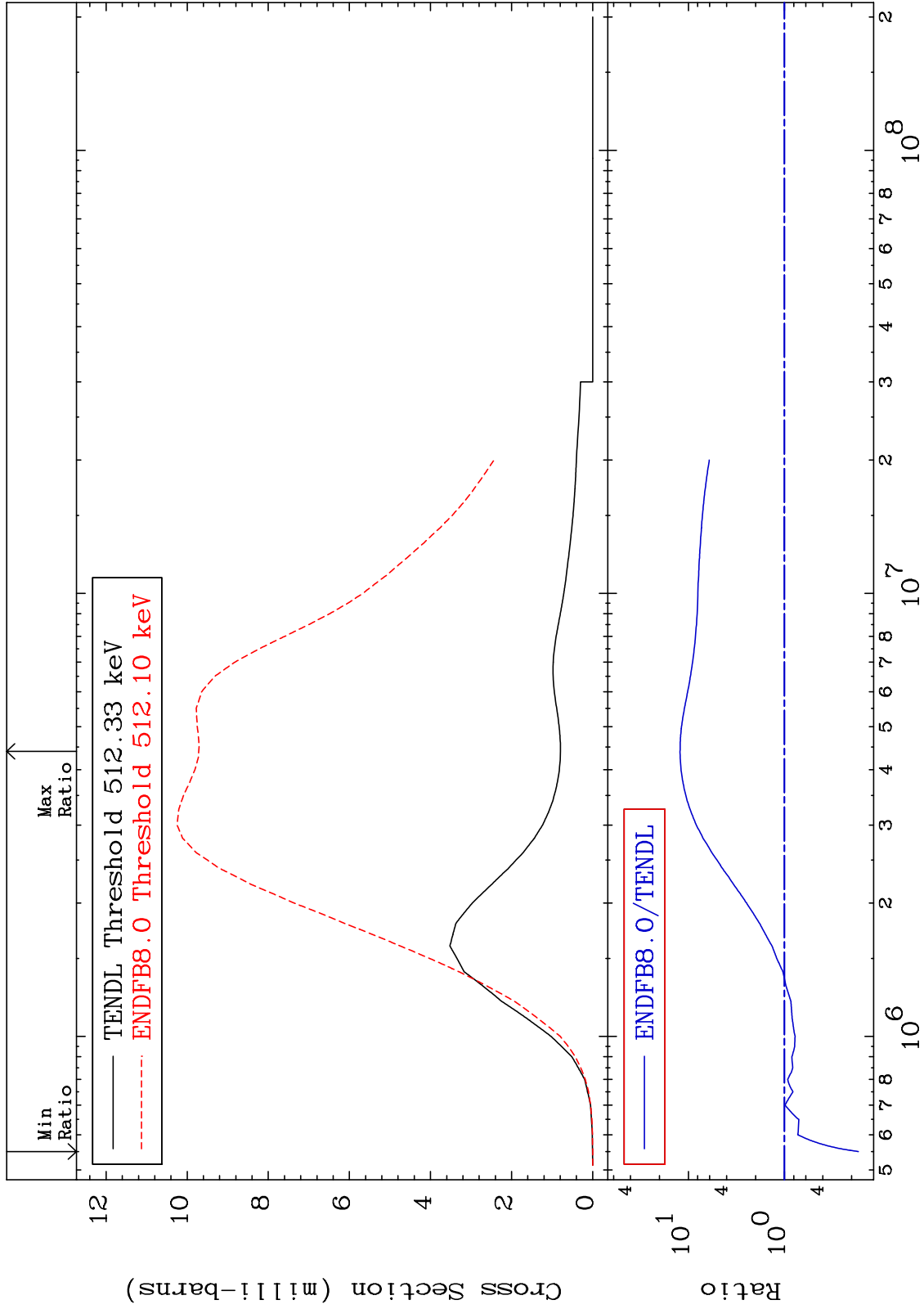
70-Yb-171

Incident Energy (eV)

MAT 7034

MT= 65 (n,n') Level
Cross Section

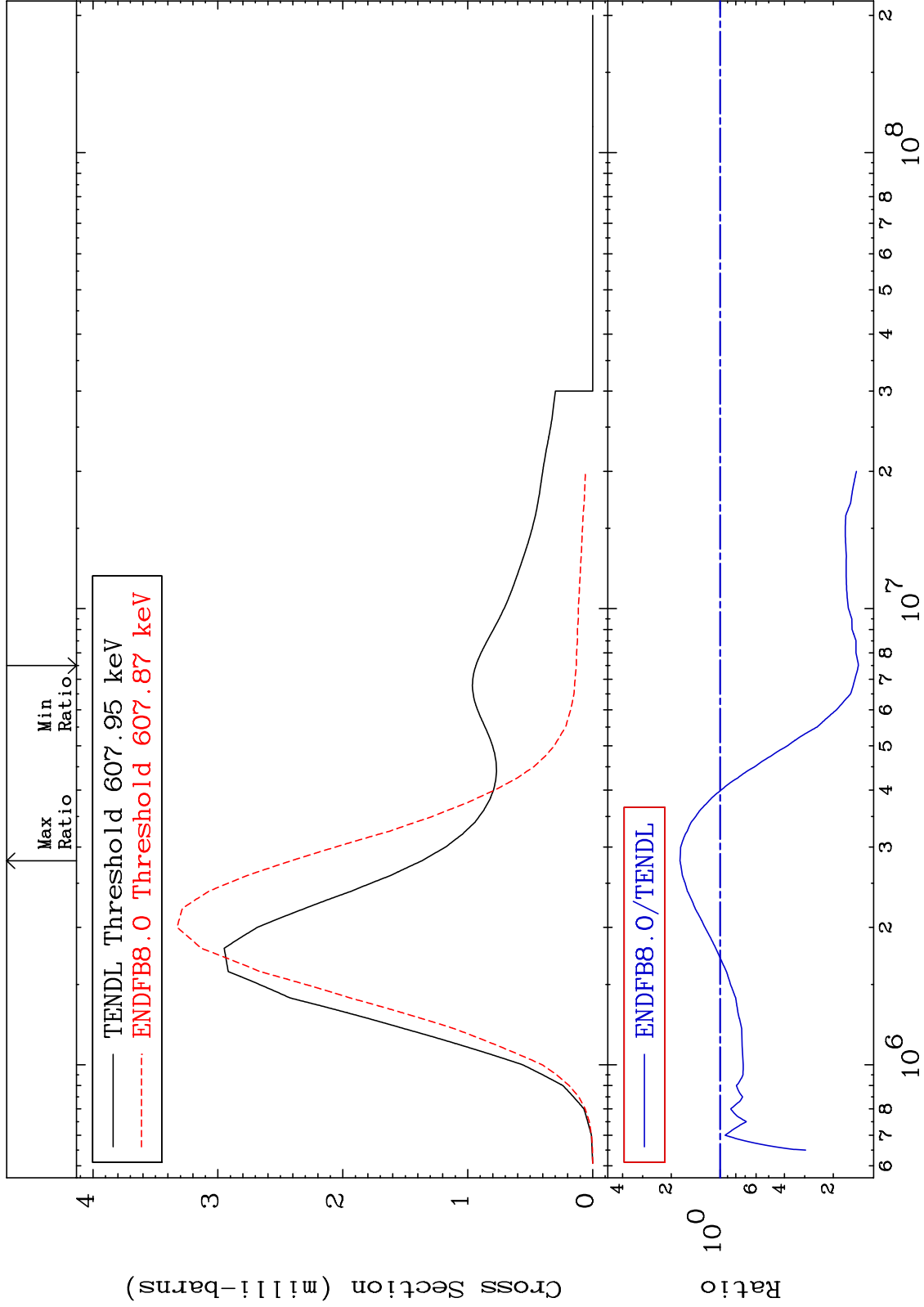
70-Yb-171
-82.99 To 1122. %



MAT 7034

MT= 66 (n,n') Level
Cross Section

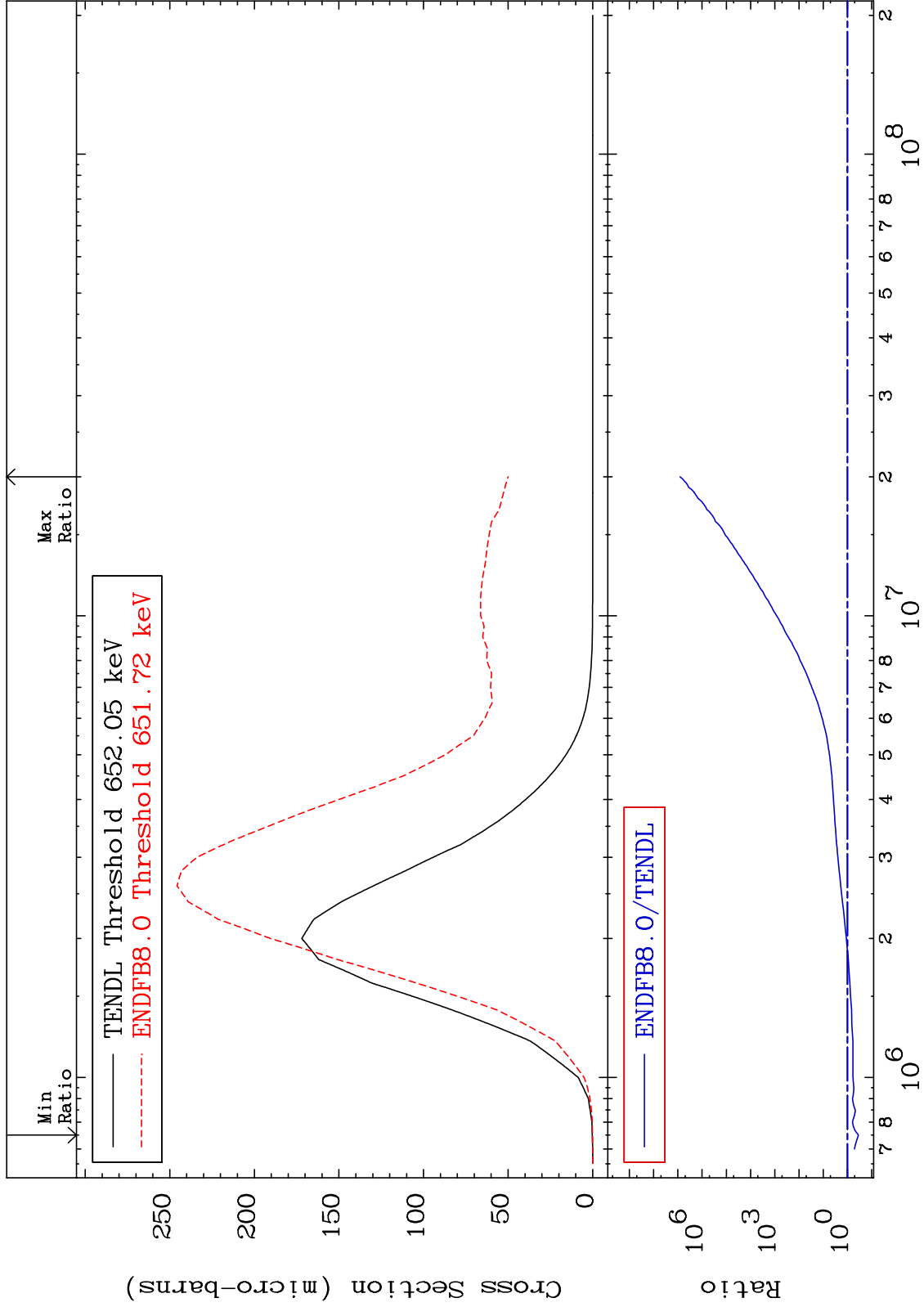
70-Yb-171
-86.00 To 76.62 %



MAT 7034

MT= 67 (n,n') Level
Cross Section

70-Yb-171
-64.66 To 9999. %



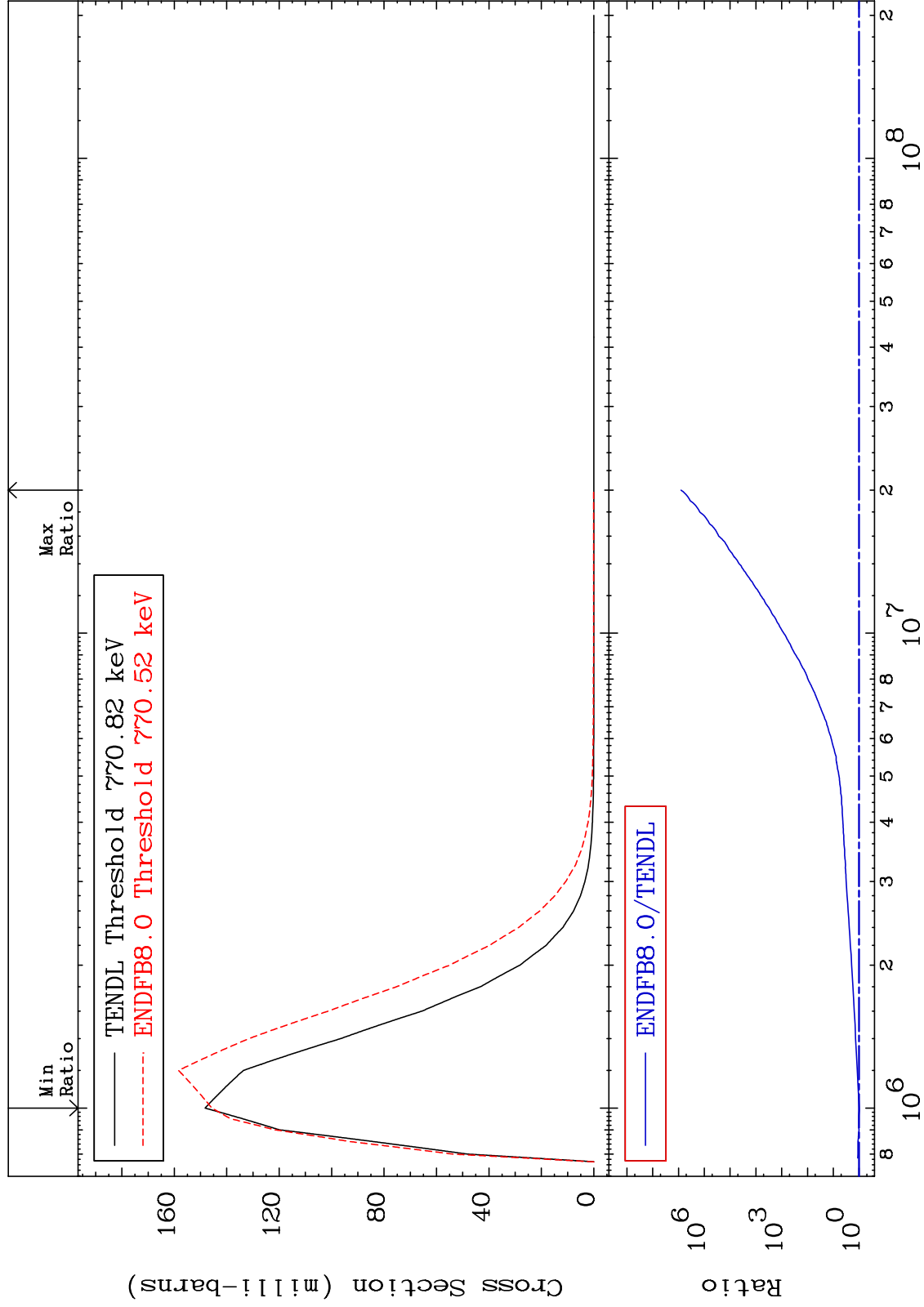
25

70-Yb-171

MAT 7034

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

70-Yb-171
-1.734 To 9999. %



26

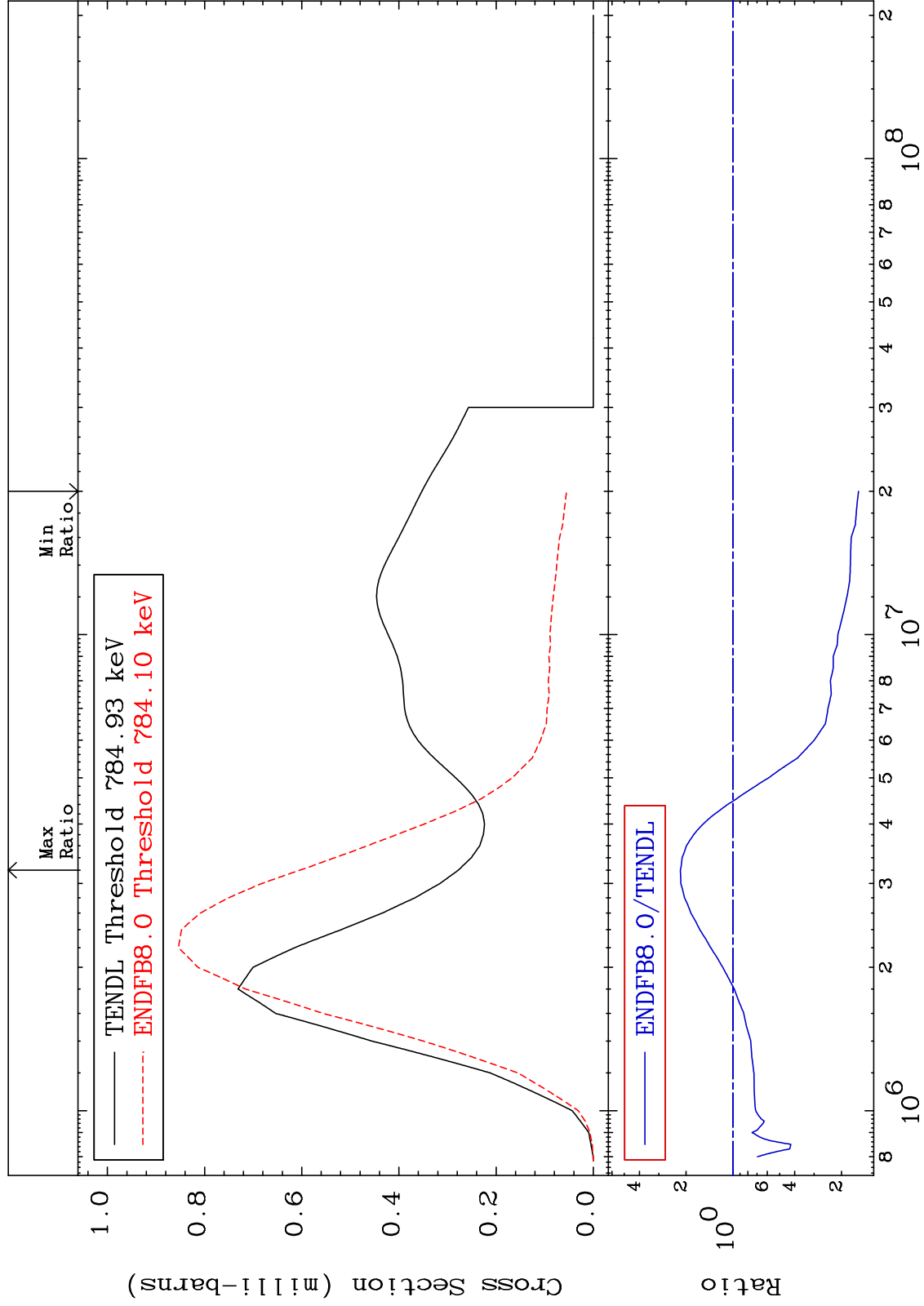
Incident Energy (eV)

70-Yb-171

MAT 7034

MT= 69 (n,n') Level
Cross Section

70-Yb-171
-84.47 To 117.5 %



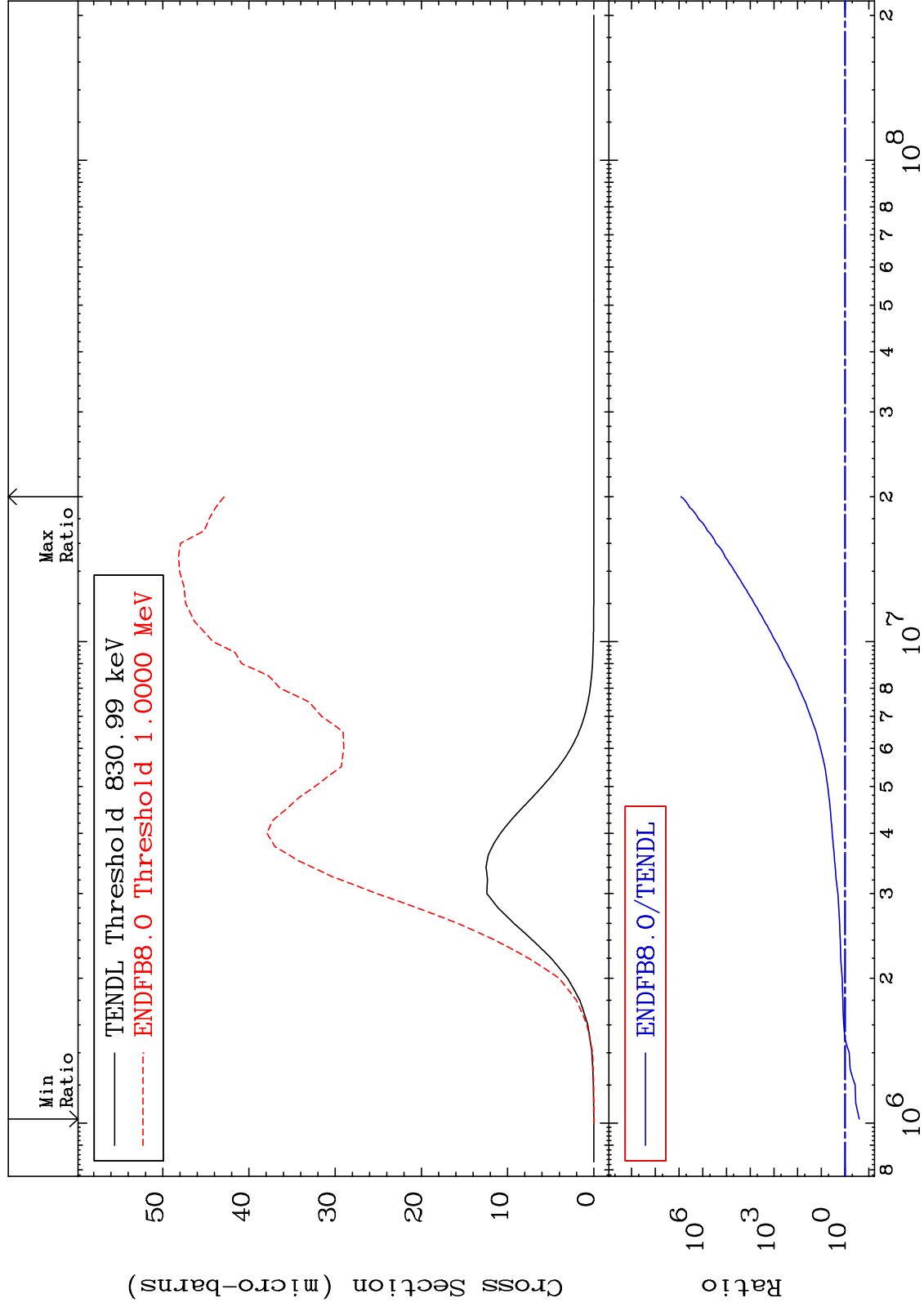
27

70-Yb-171

MAT 7034

MT= 70 (n,n') Level
Cross Section

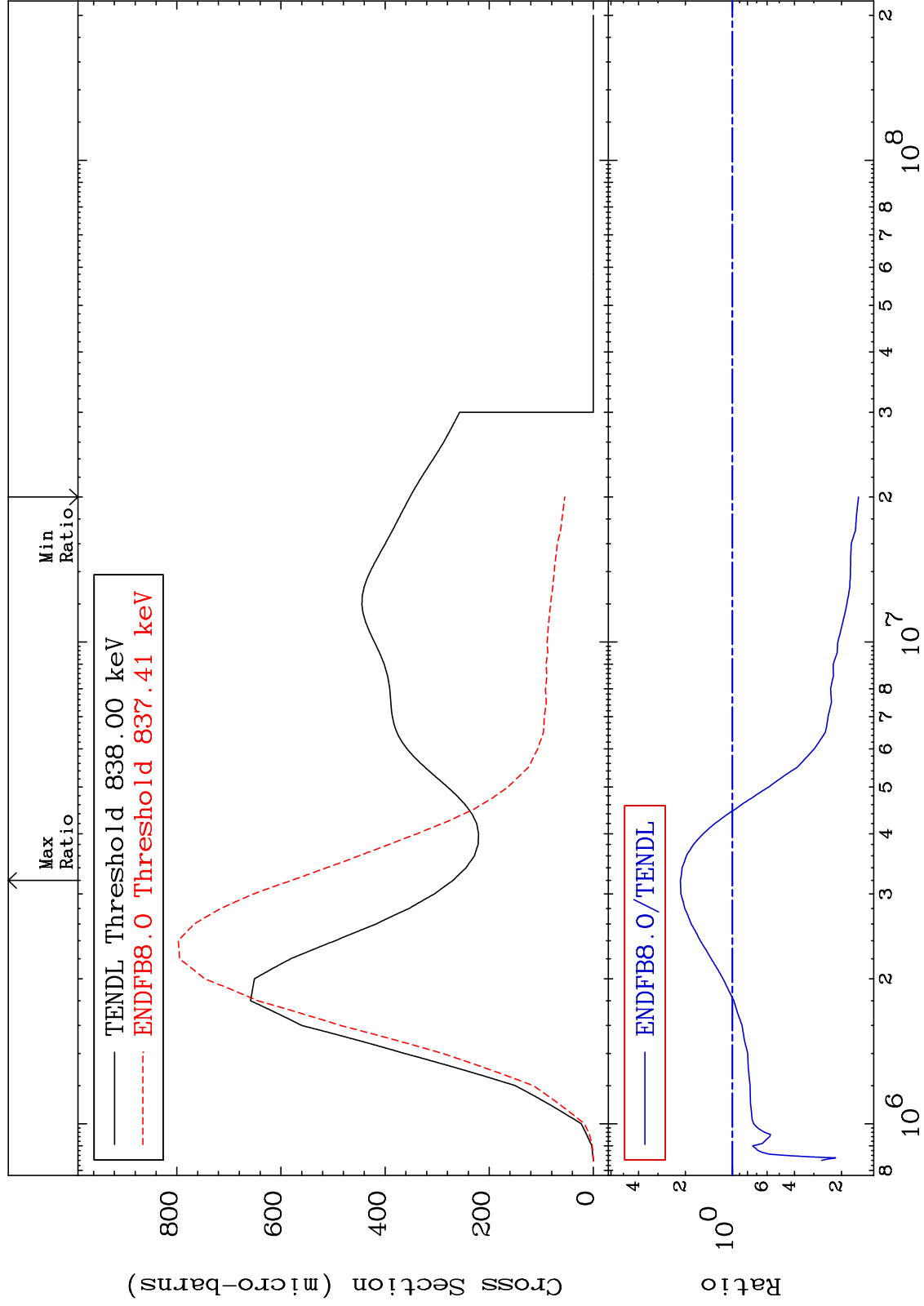
70-Yb-171
-74.67 To 9999. %



MAT 7034

MT= 71 (n,n') Level
Cross Section

70-Yb-171
-84.47 To 115.2 %



29

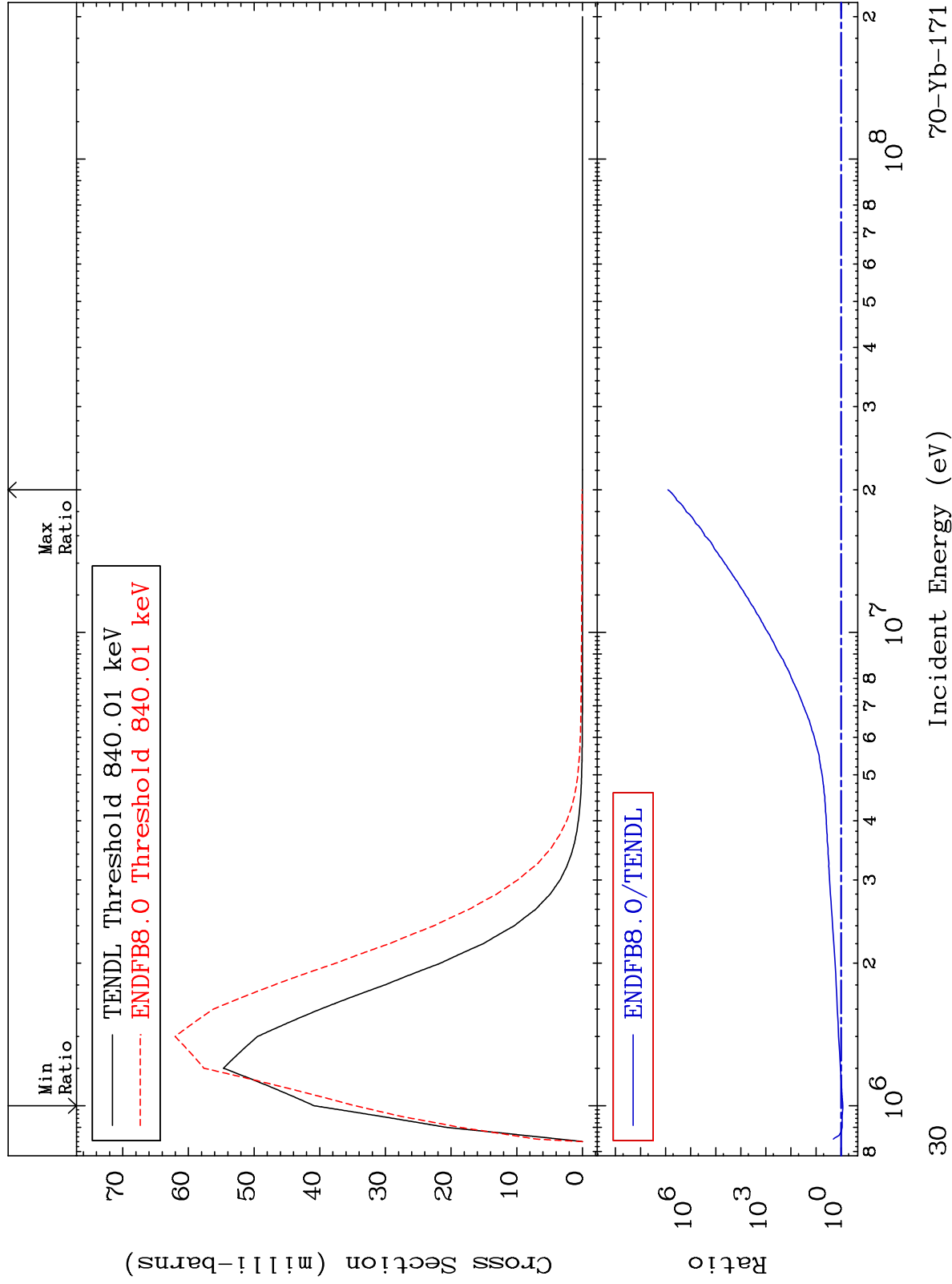
Incident Energy (eV)

70-Yb-171

MAT 7034

MT= 72 (n,n') Level
Cross Section

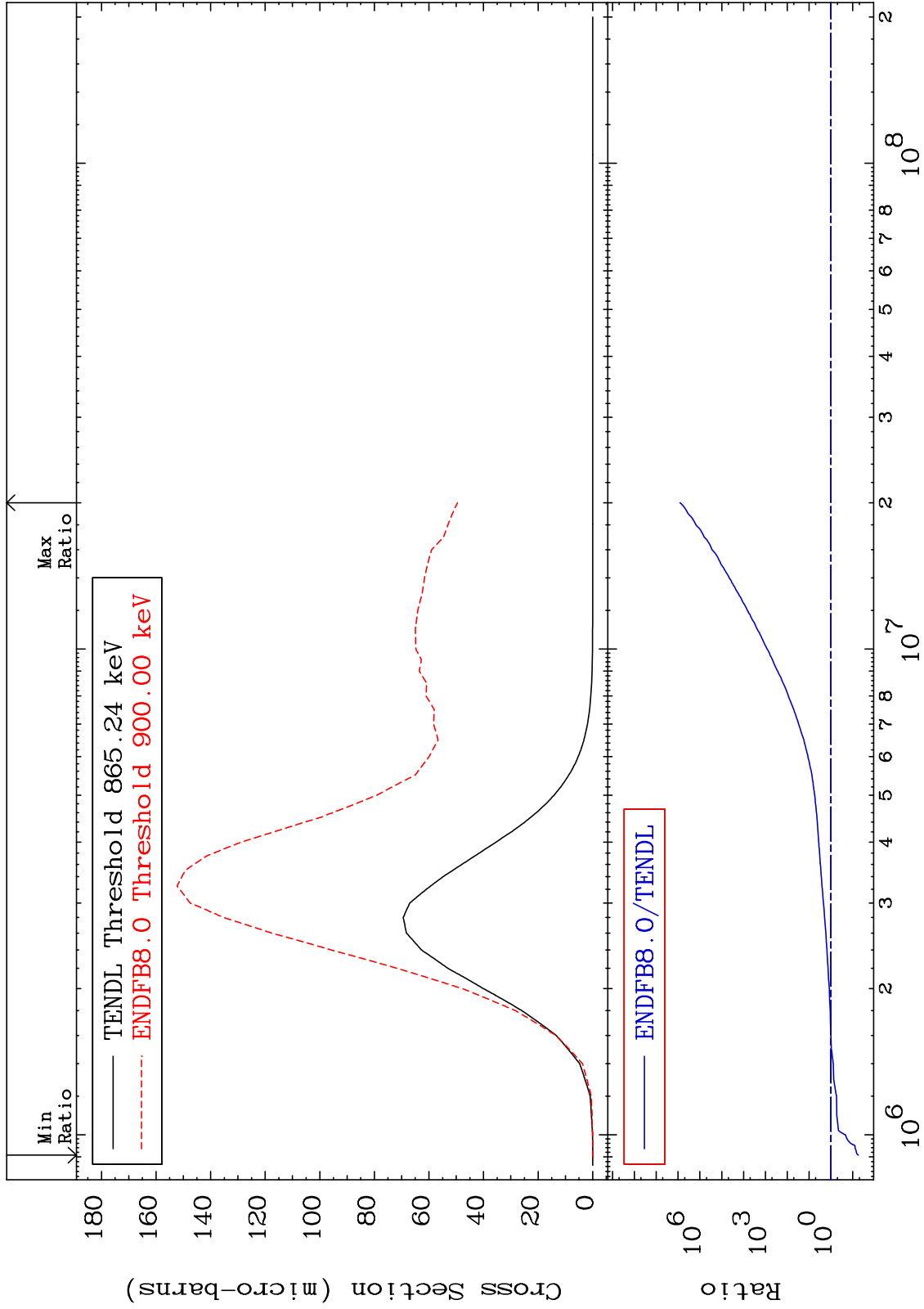
70-Yb-171
-15.18 To 9999. %



MAT 7034

MT= 73 (n,n') Level
Cross Section

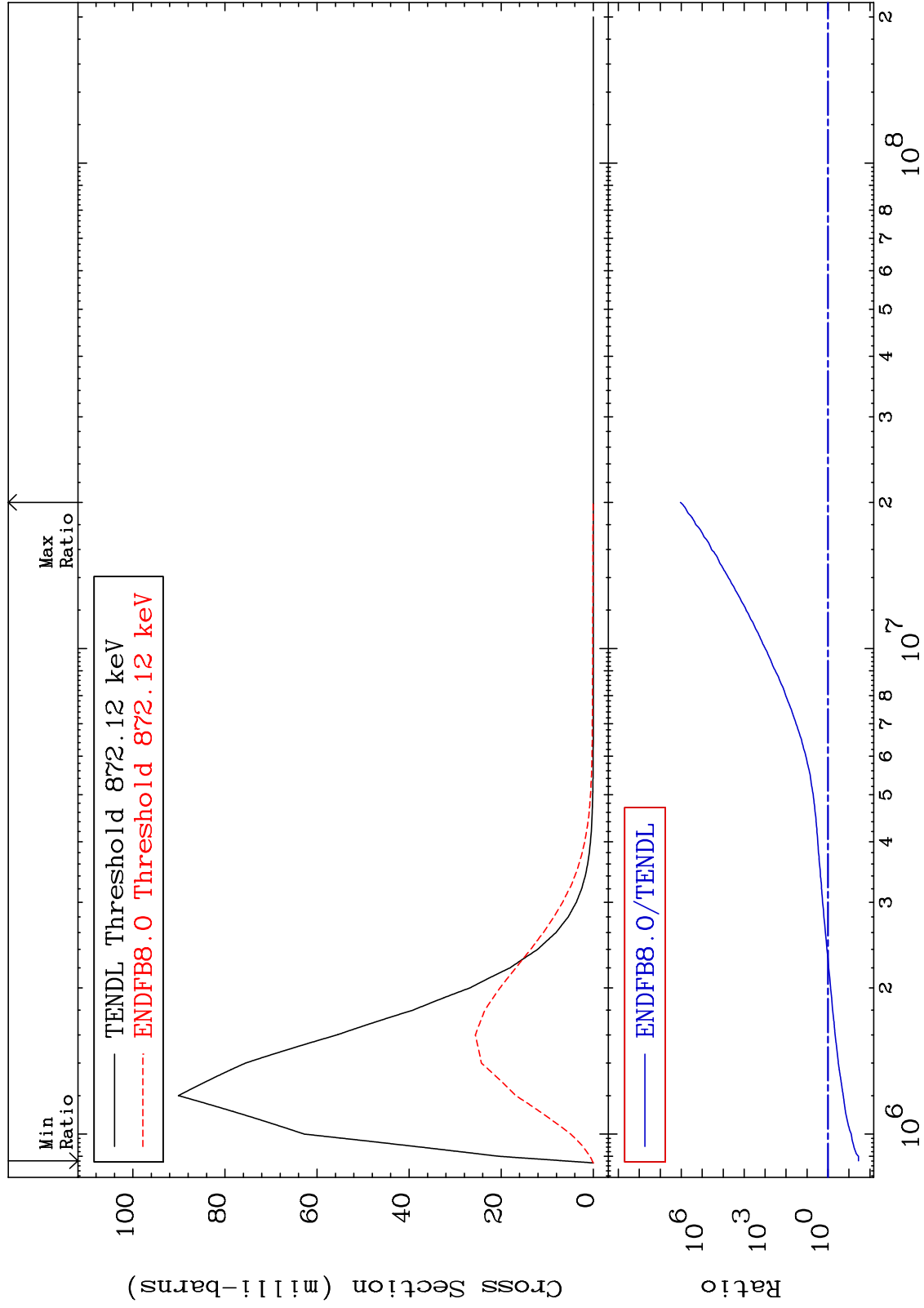
70-Yb-171
-94.47 To 9999. %



MAT 7034

MT= 74 (n,n') Level
Cross Section

70-Yb-171
-96.50 To 9999. %



32

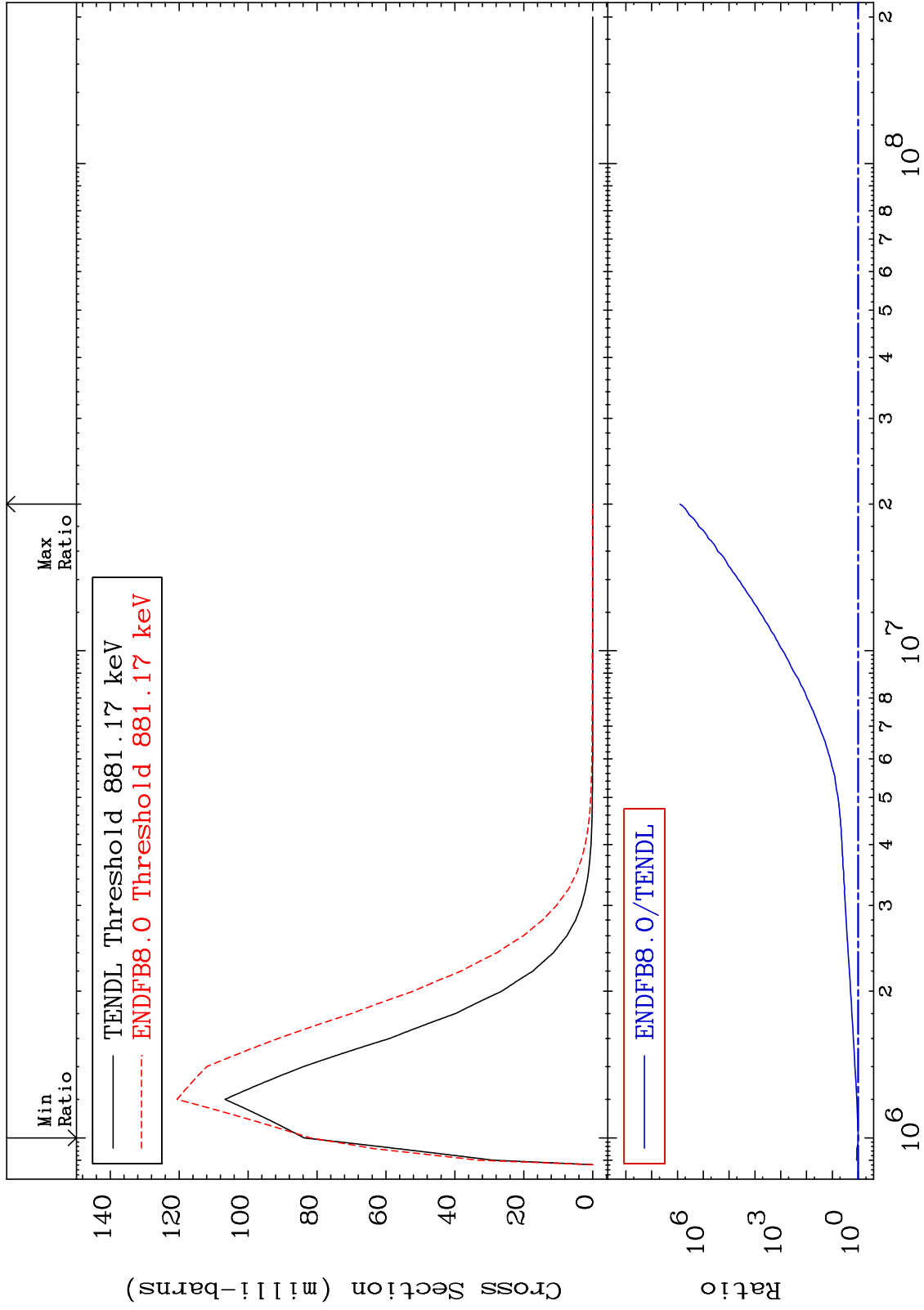
Incident Energy (eV)

70-Yb-171

MAT 7034

MT= 75 (n,n') Level
Cross Section

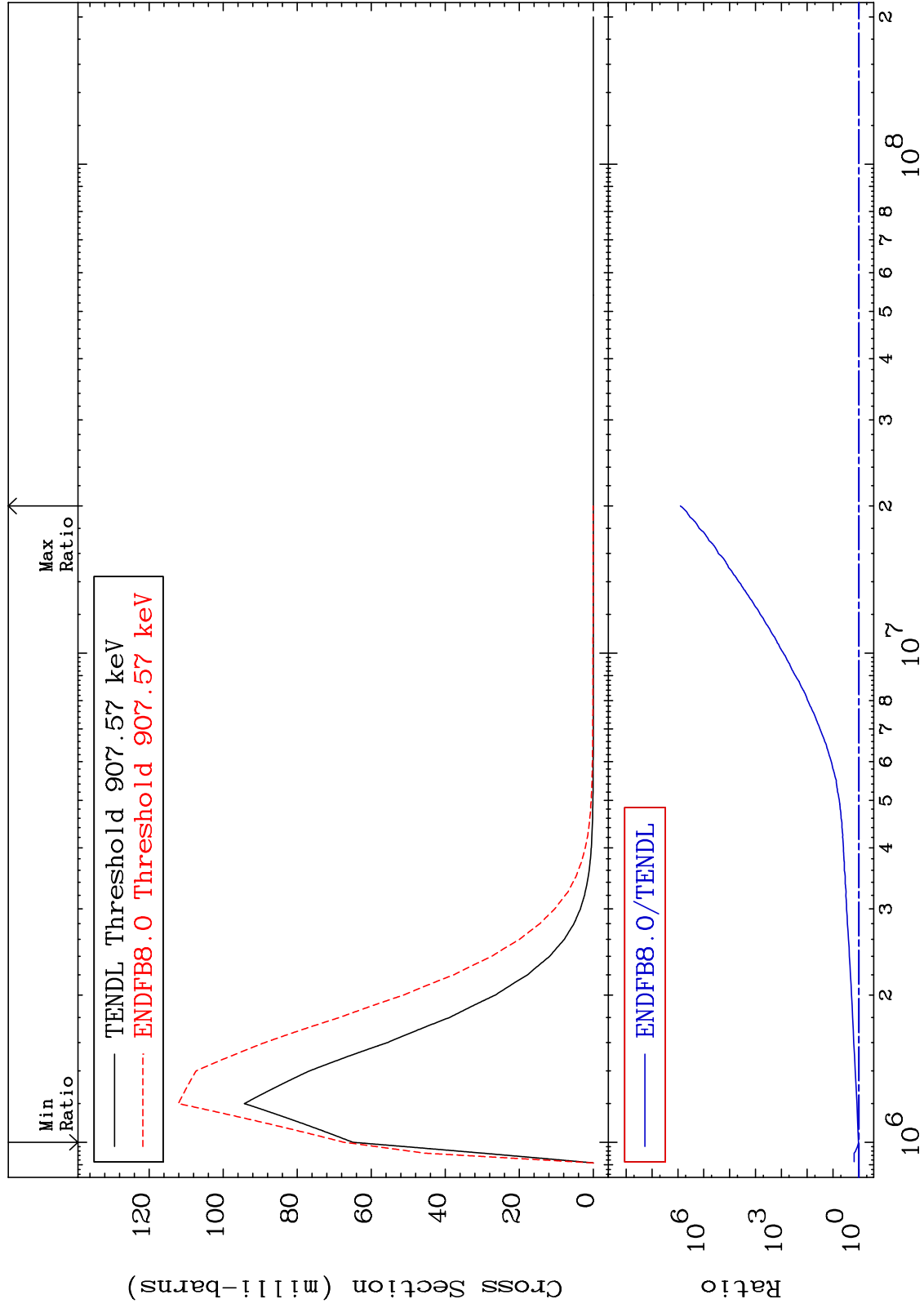
70-Yb-171
-2.111 To 9999. %



MAT 7034

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

70-Yb-171
3.646 To 9999. %



34

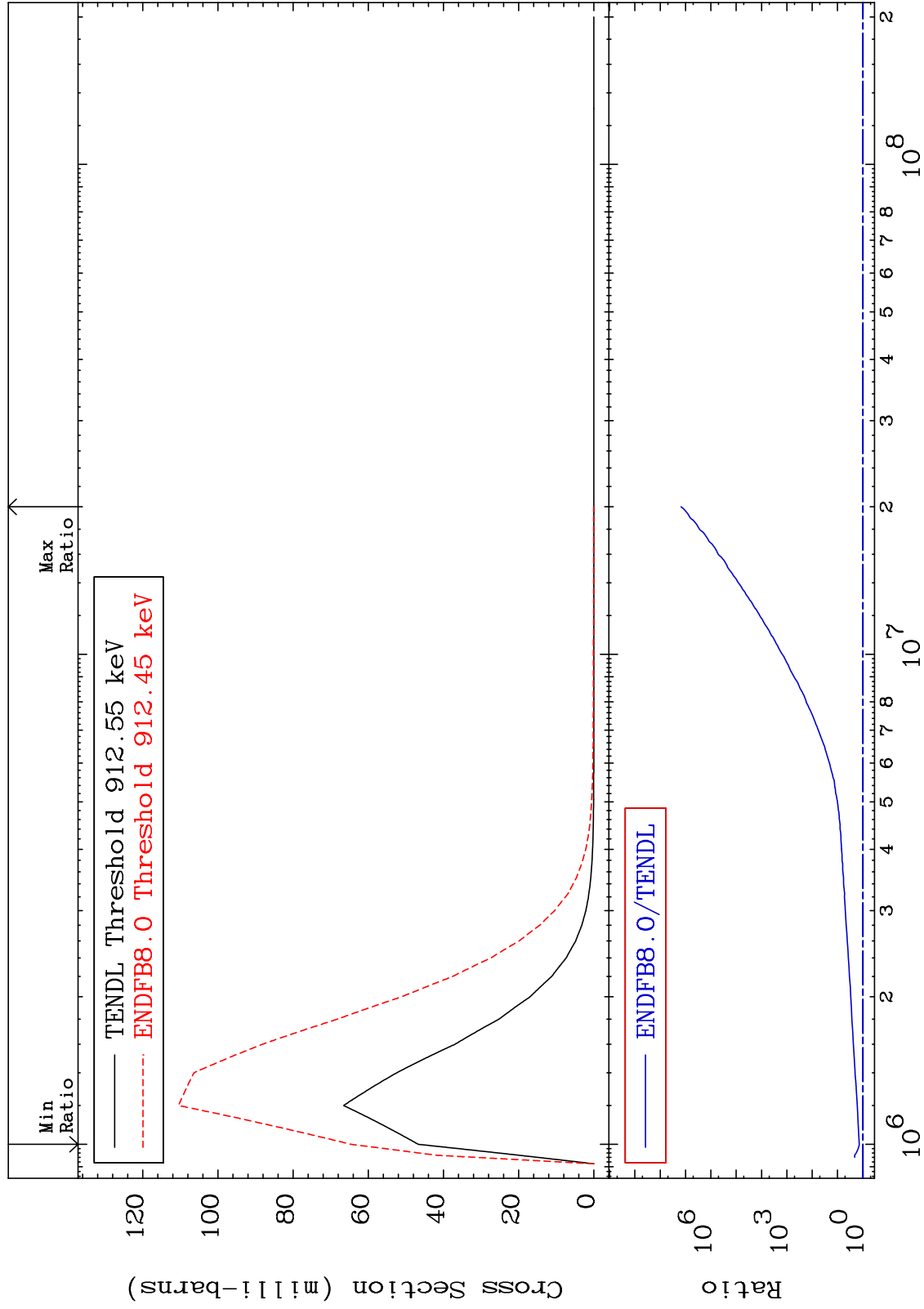
Incident Energy (eV)

70-Yb-171

MAT 7034

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

70-Yb-171
38.24 To 9999. %



Incident Energy (eV)

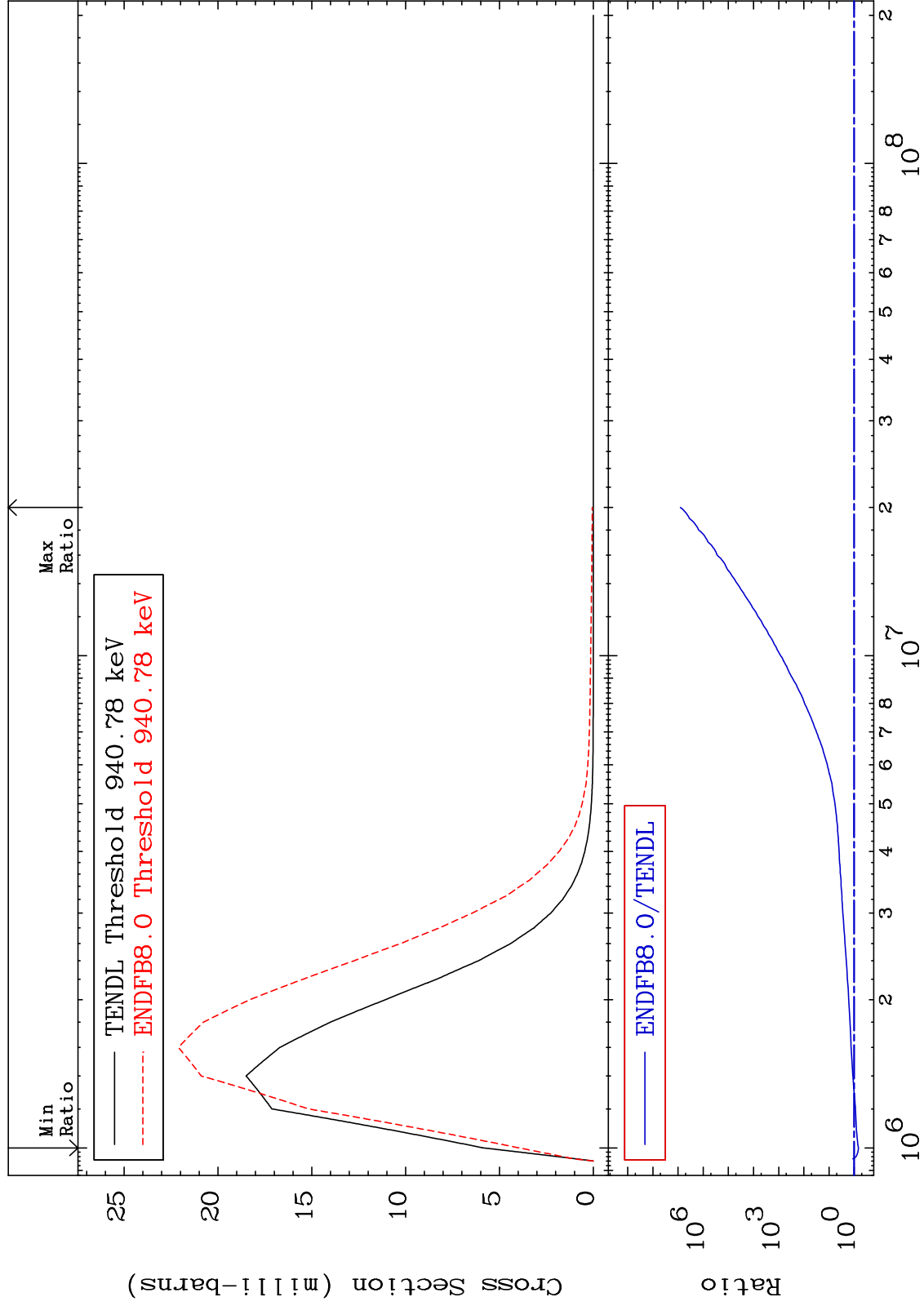
70-Yb-171

35

MAT 7034

MT= 78 (n,n') Level
Cross Section

70-Yb-171
-32.59 To 9999. %



Incident Energy (eV)

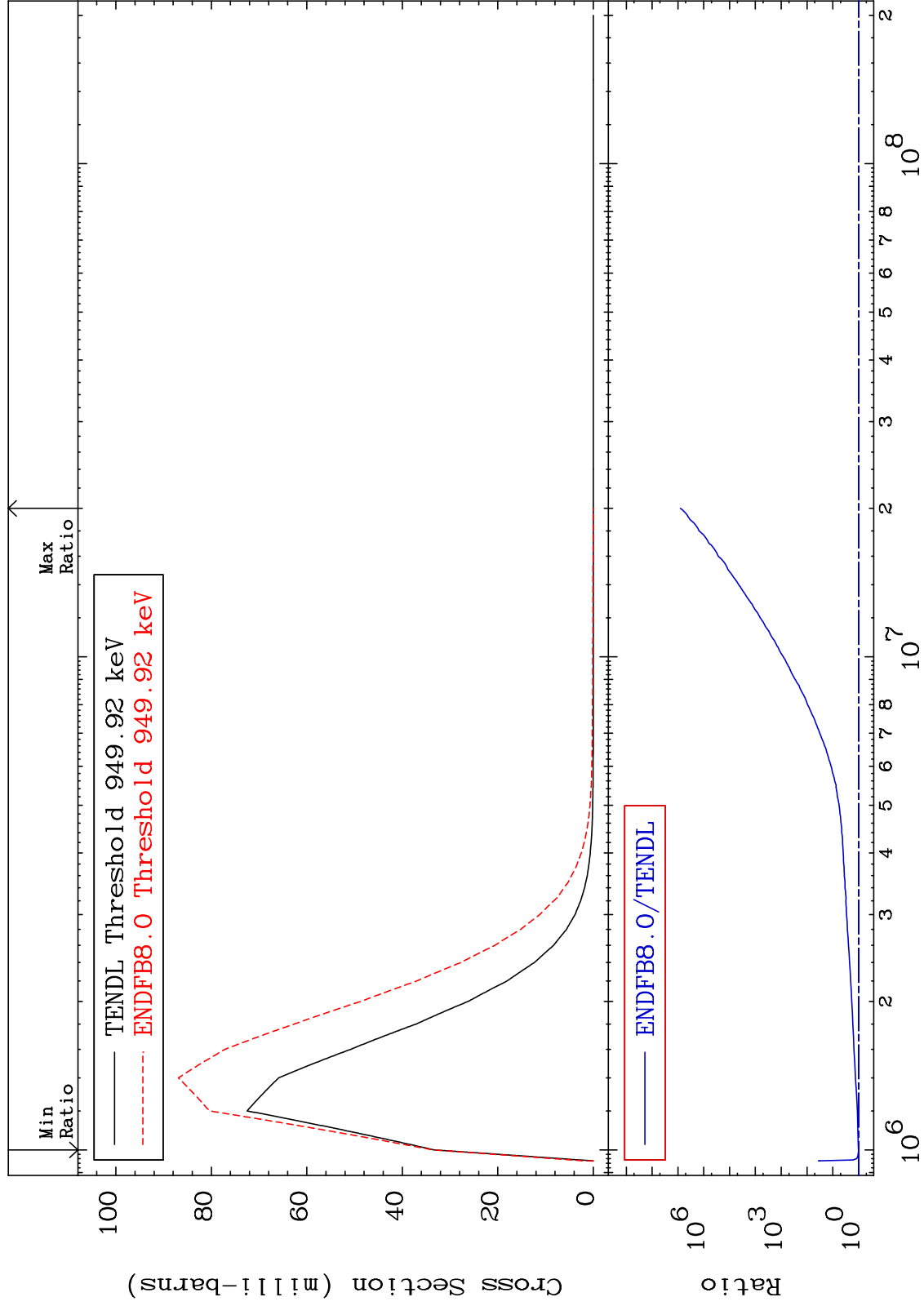
70-Yb-171

36

MAT 7034

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

70-Yb-171
0.860 To 9999. %



Incident Energy (eV)

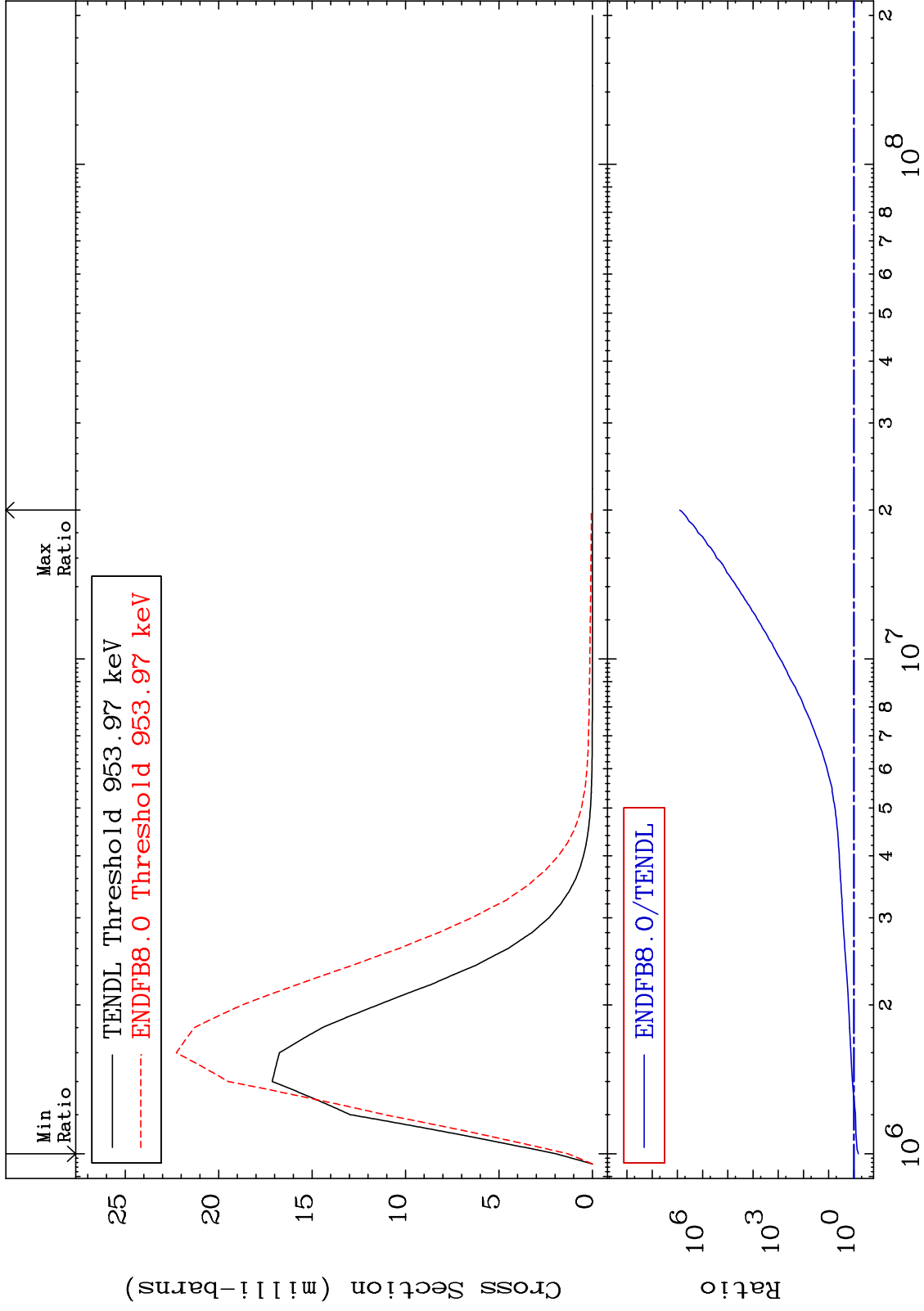
70-Yb-171

37

MAT 7034

MT= 80 (n,n') Level
Cross Section

70-Yb-171
-33.42 To 9999. %



38

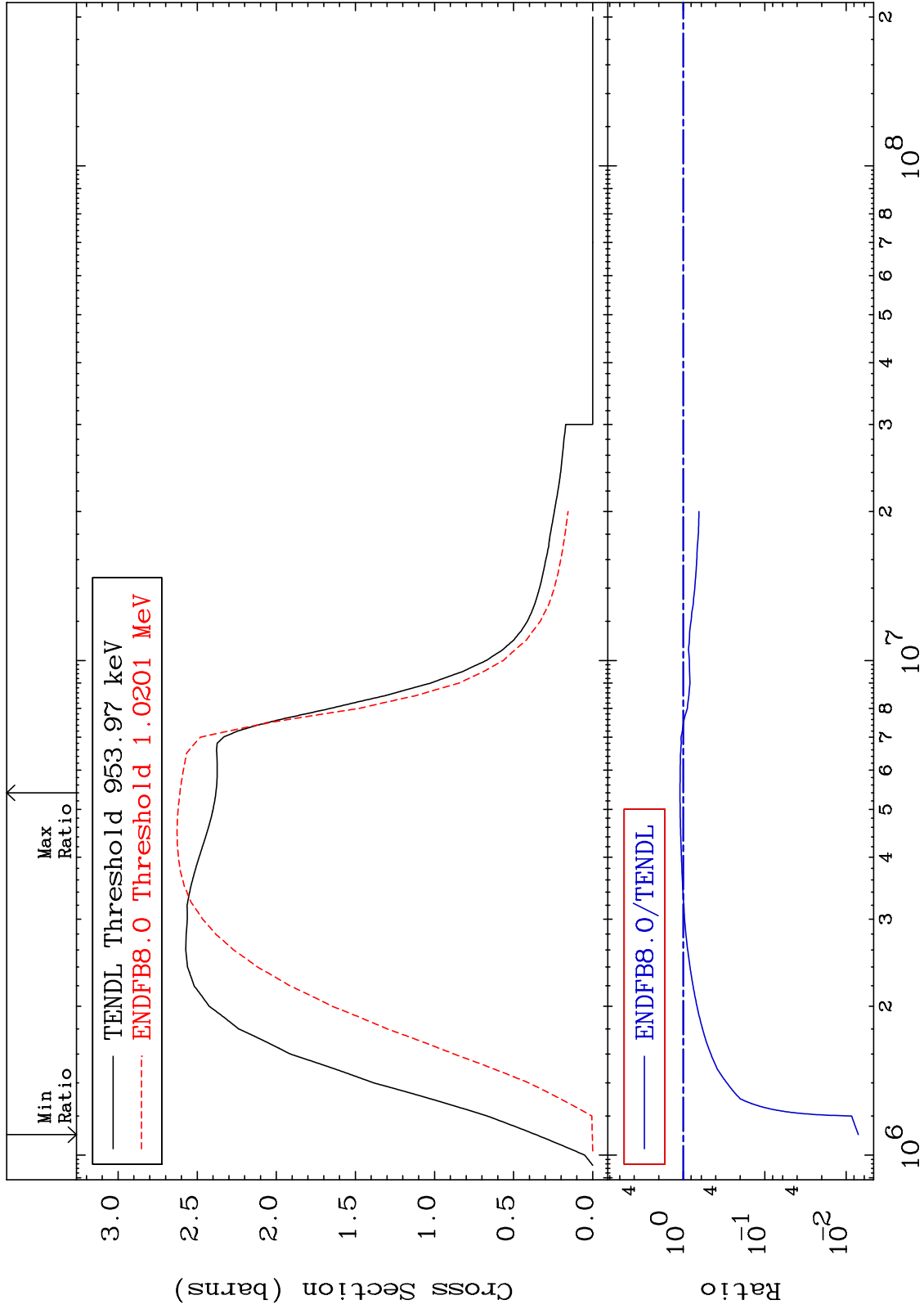
Incident Energy (eV)

70-Yb-171

MAT 7034

(n, n') Continuum
Cross Section

70-Yb-171
-99.29 To 9.554 %



39

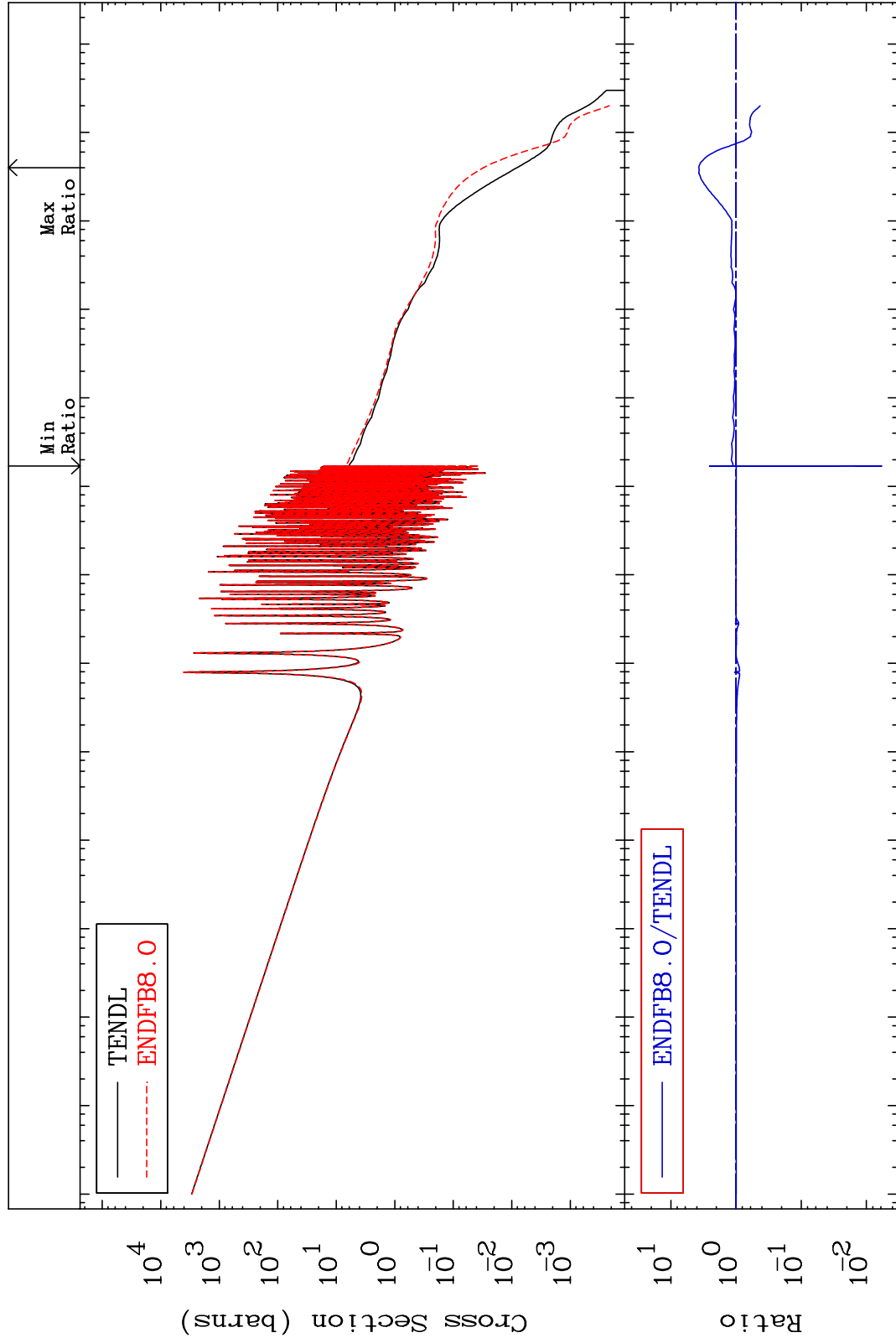
70-Yb-171

MAT 7034

(n, γ)
Cross Section

70-Yb-171

-99.41 To 273.4 %



40

Incident Energy (eV)

70-Yb-171

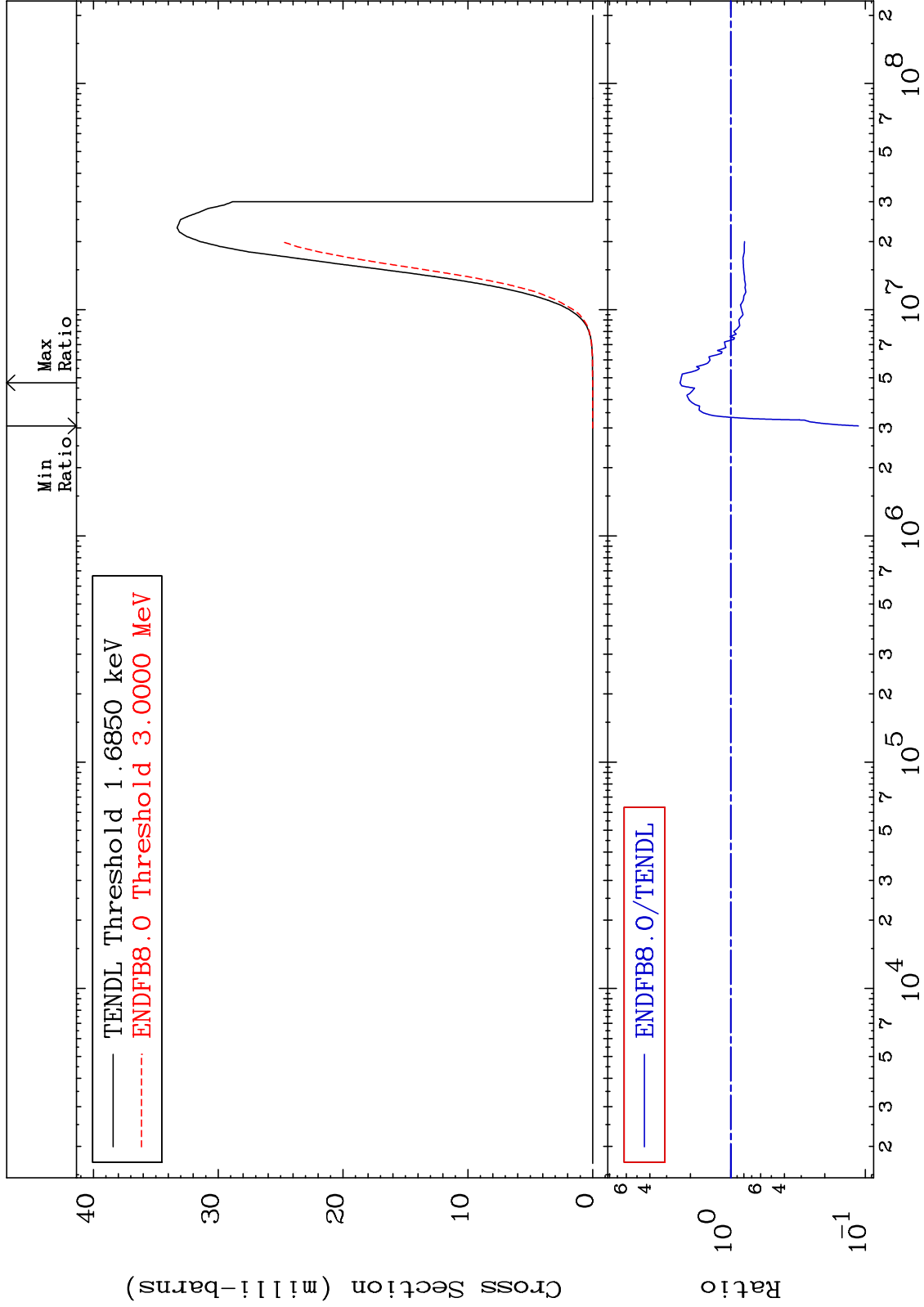
MAT 7034

(n, p)

70-Yb-171

Cross Section

-88.75 To 138.9 %



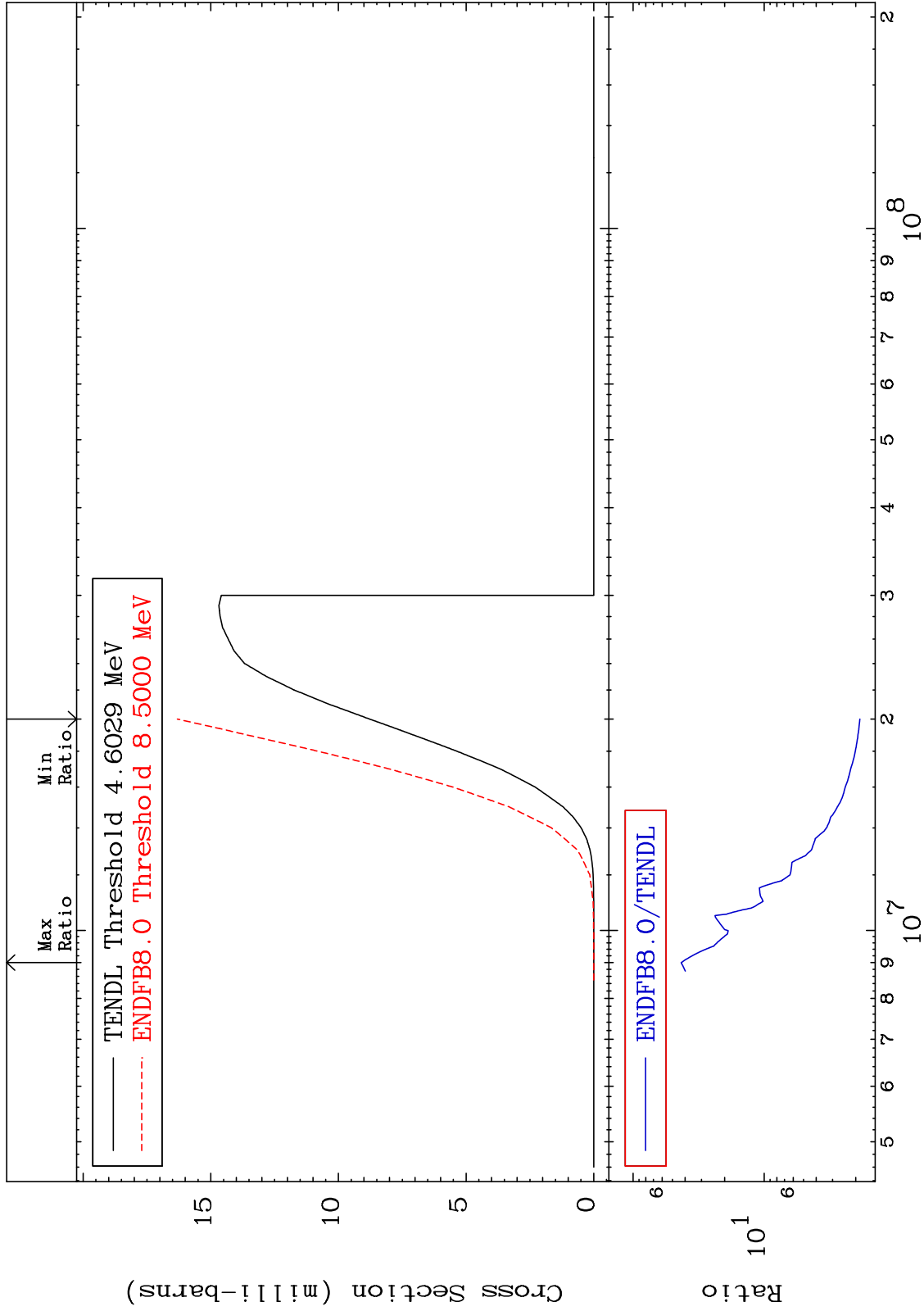
MAT 7034

(n, d)

70-Yb-171

Cross Section

85.70 To 4188. %



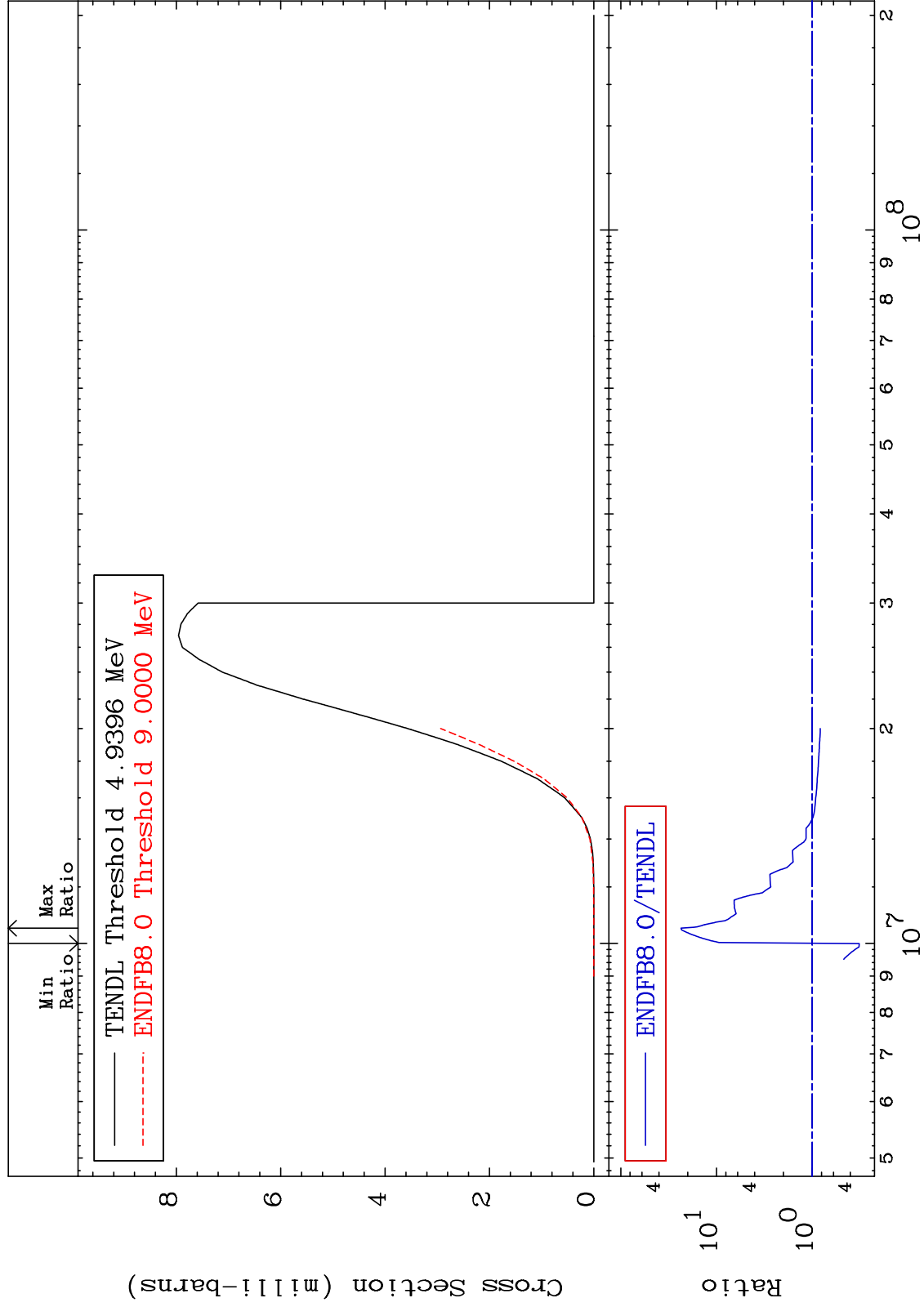
MAT 7034

(n, t)

70-Yb-171

Cross Section

-67.75 To 2247. %



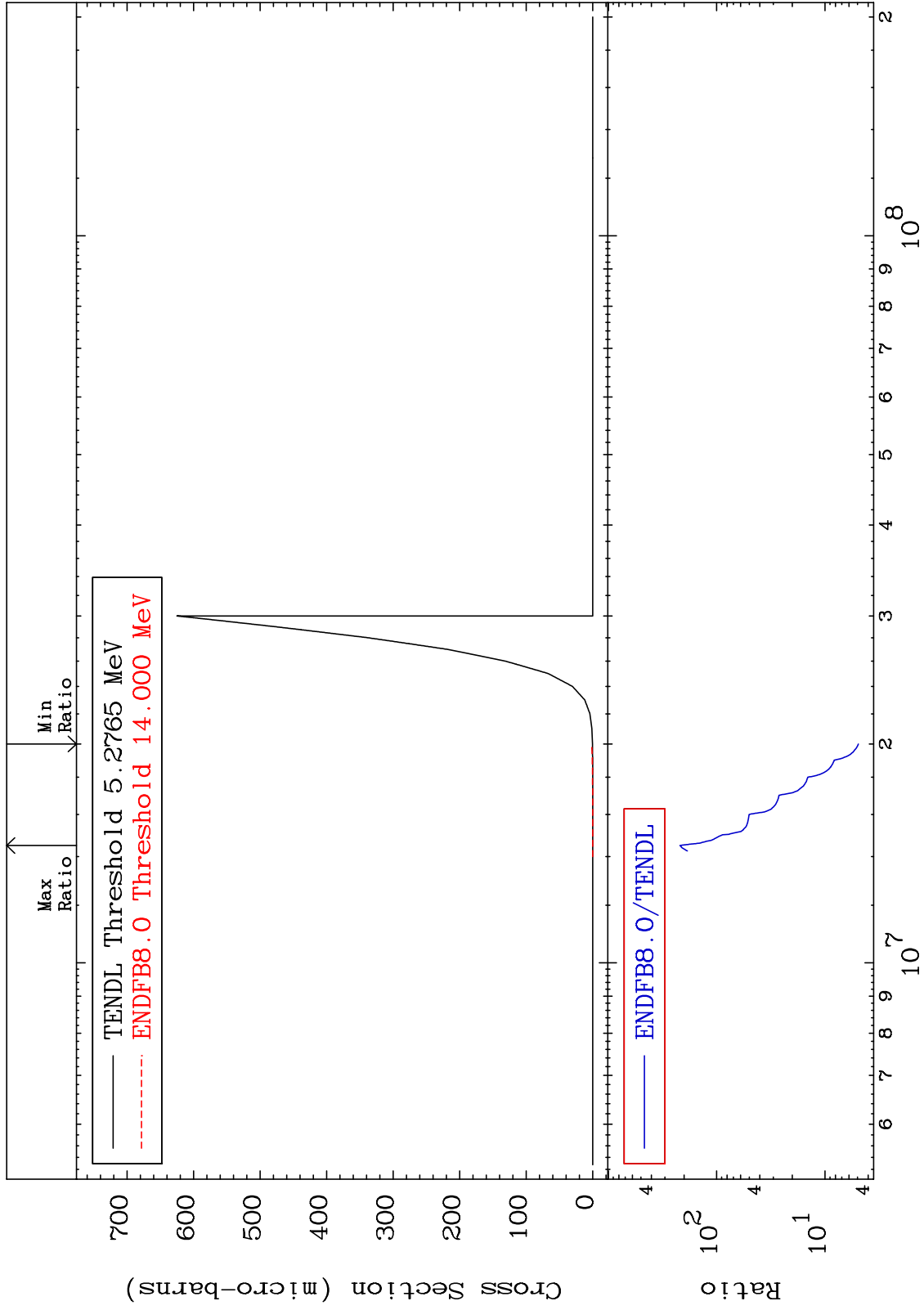
MAT 7034

(n, He-3)

70-Yb-171

Cross Section

391.3 To 9999. %



44

Incident Energy (eV)

70-Yb-171

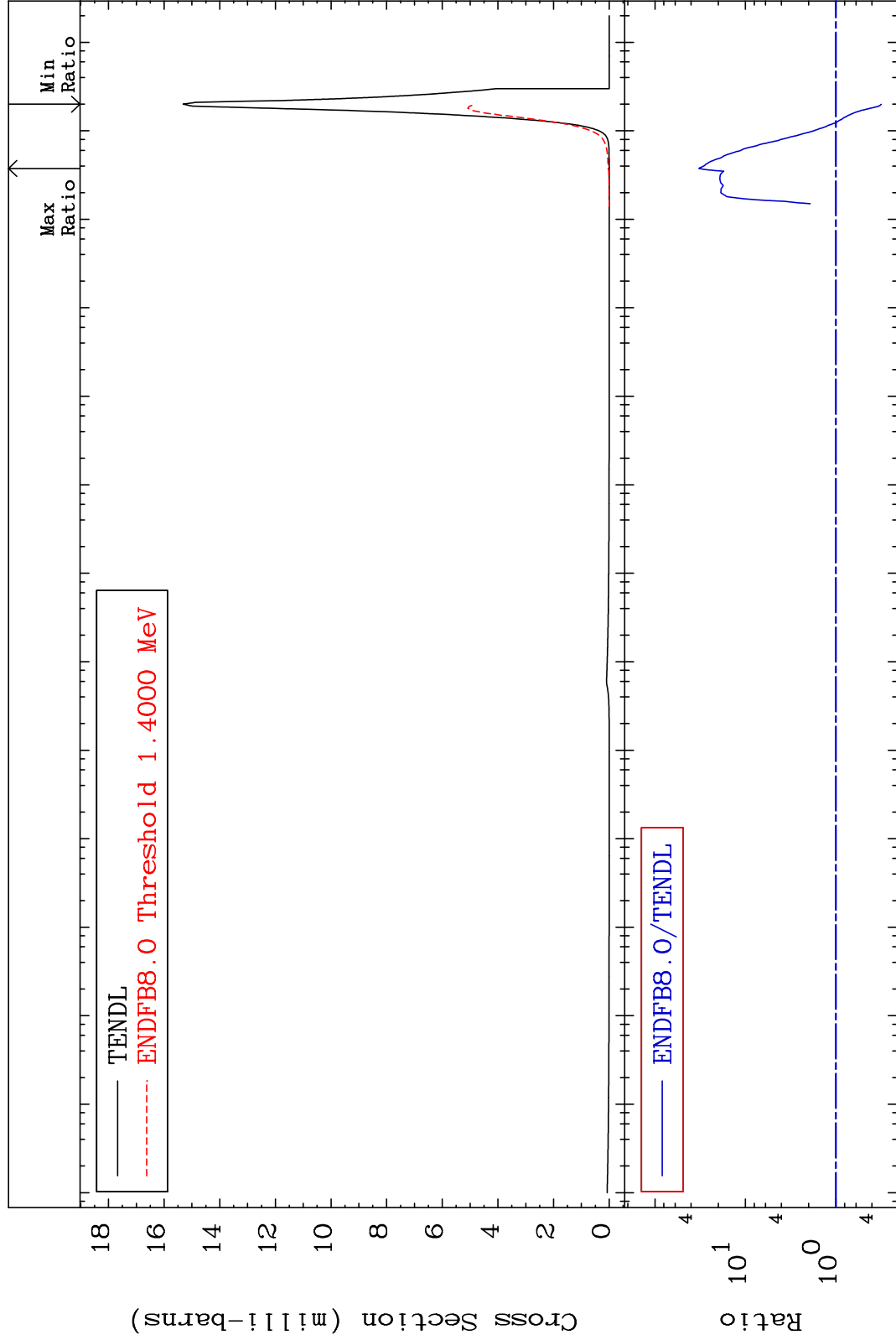
MAT 7034

(n, α)

70-Yb-171

Cross Section

-68.72 To 3189. %



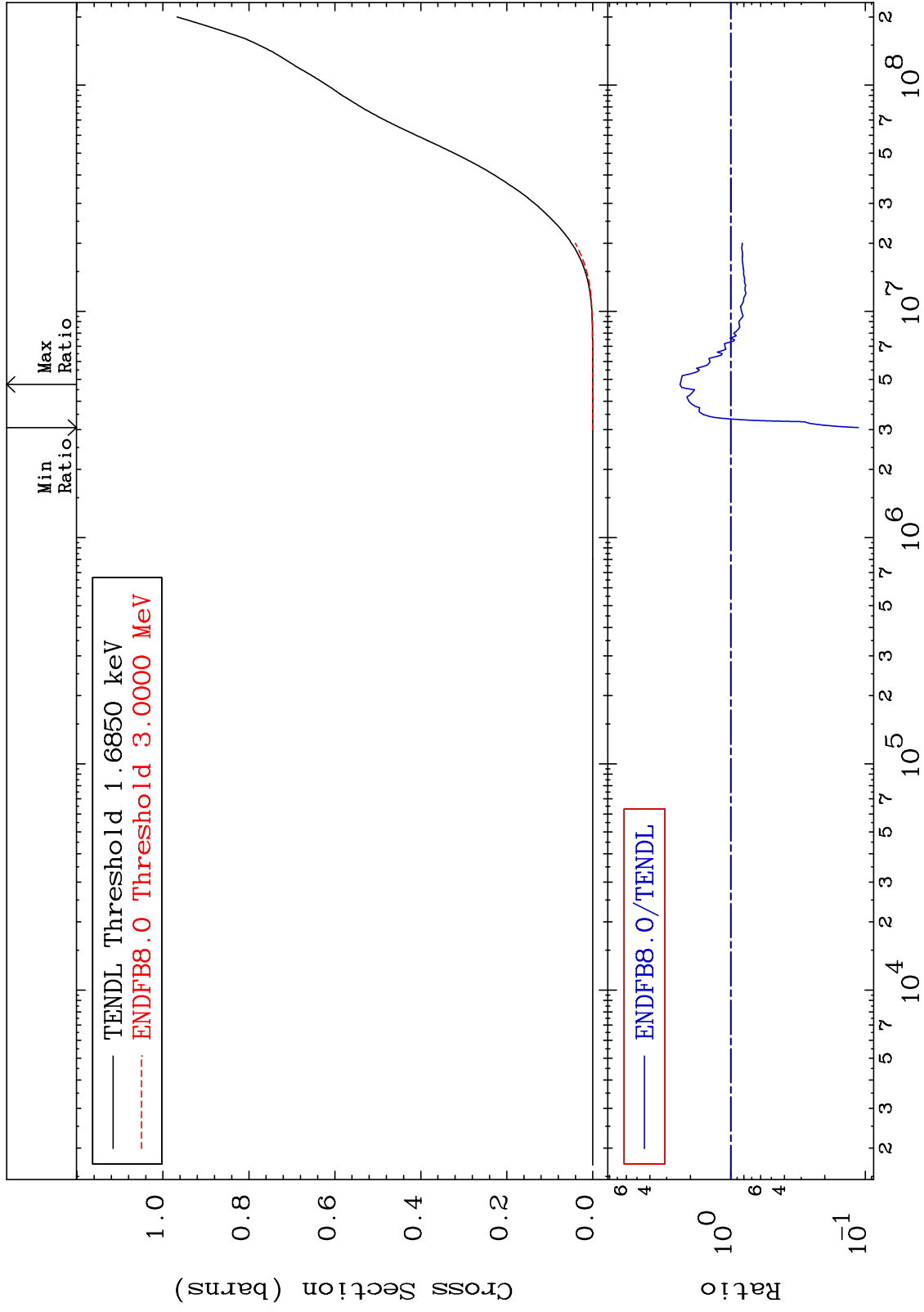
TENDL
ENDFB8.0 Threshold 1.4000 MeV

ENDFB8.0/TENDL

MAT 7034

Hydrogen Production
Cross Section

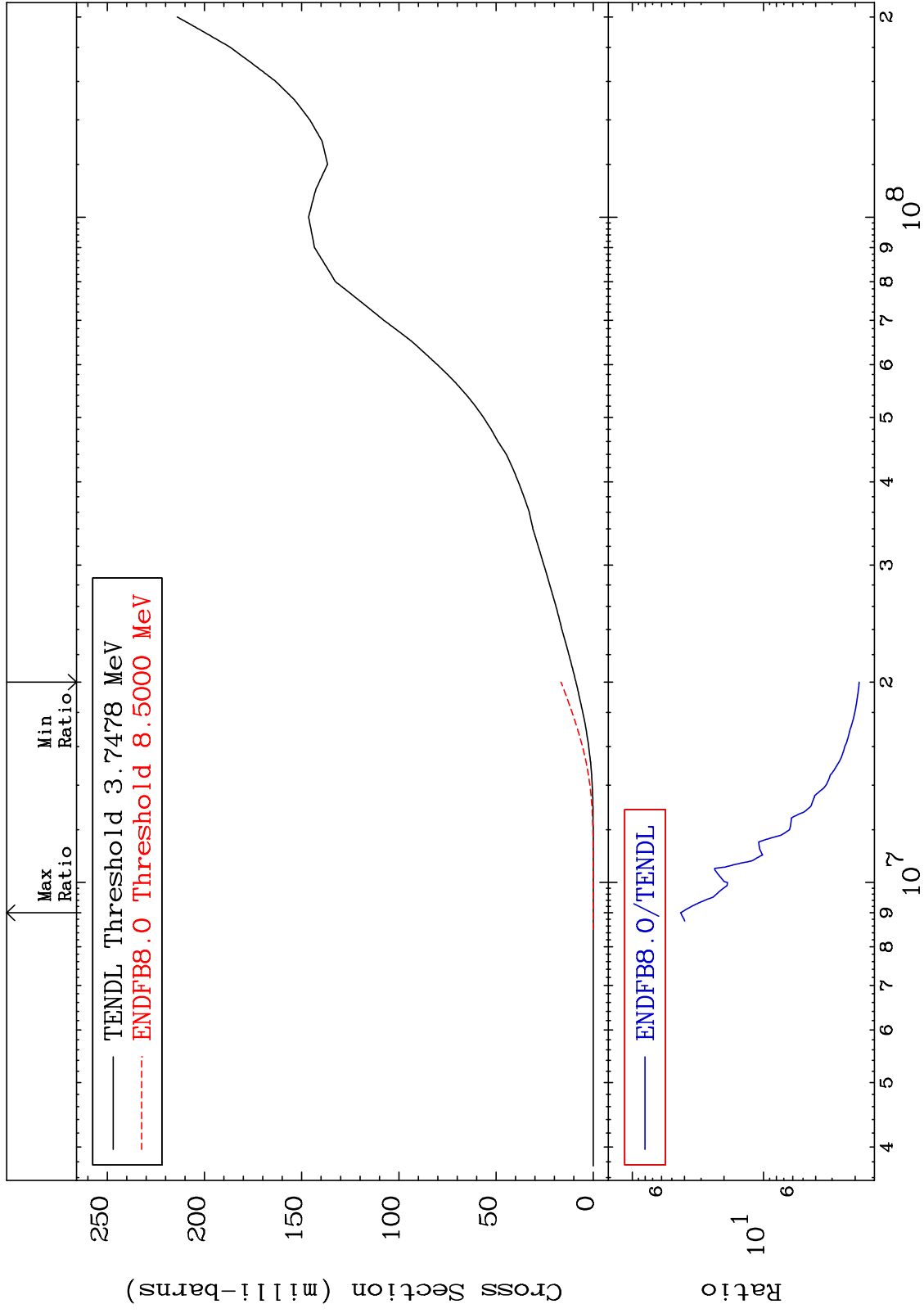
70-Yb-171
-88.75 To 138.9 %



MAT 7034

Deuterium Production
Cross Section

⁷⁰Yb-171
86.74 To 4188. %



47

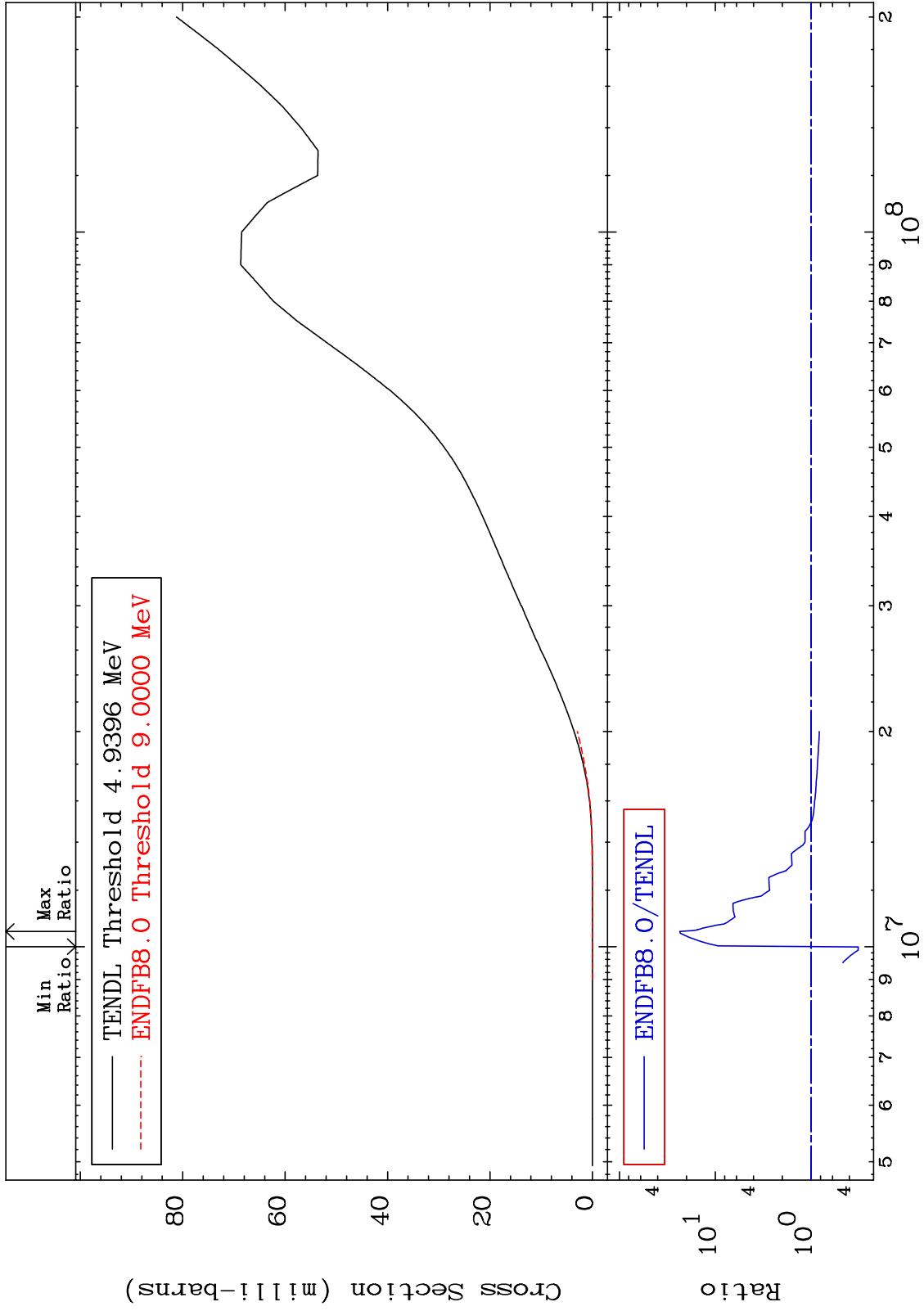
Incident Energy (eV)

⁷⁰Yb-171

MAT 7034

Tritium Production
Cross Section

70-Yb-171
-67.75 To 2247. %



48

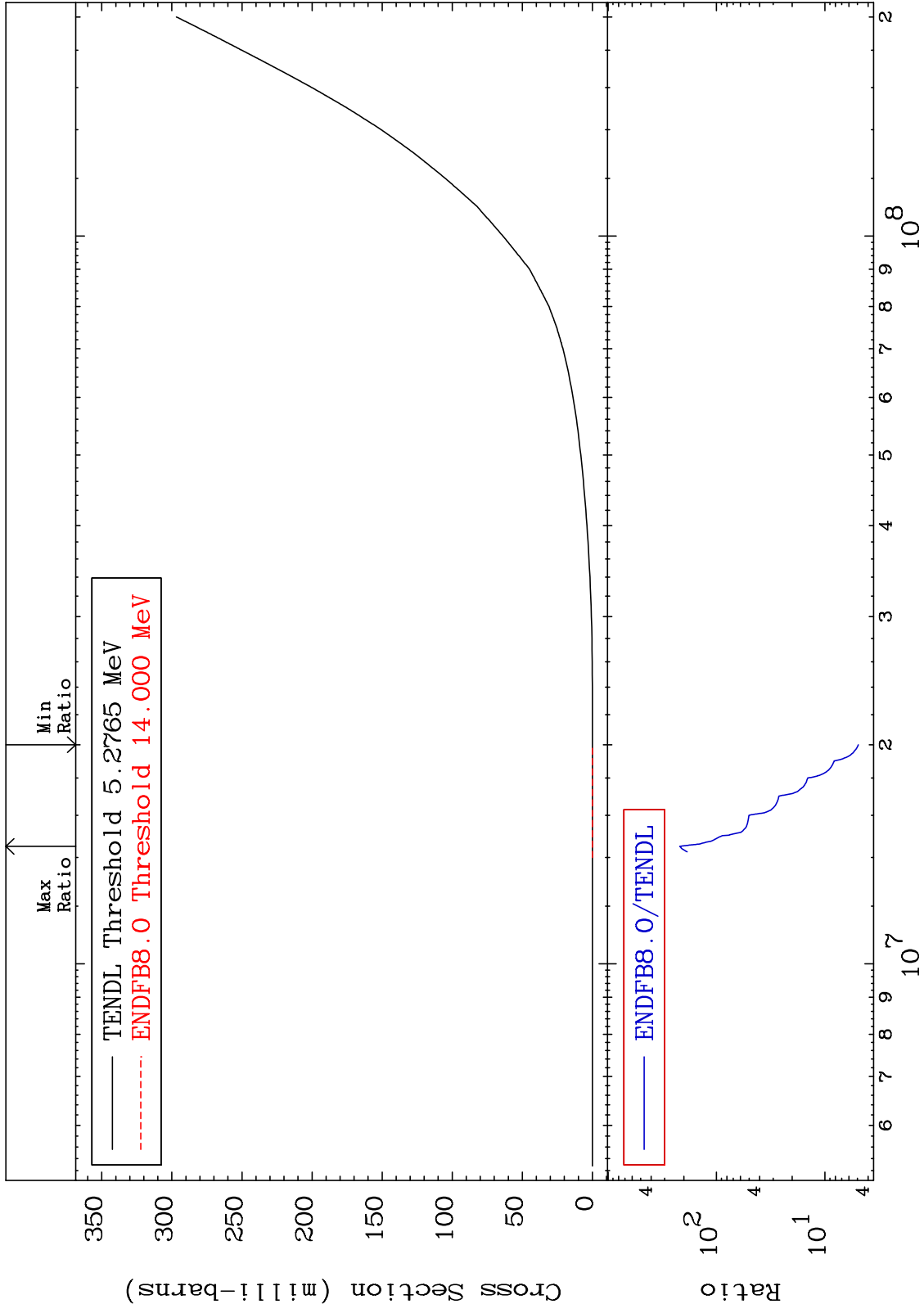
Incident Energy (eV)

70-Yb-171

MAT 7034

He-3 Production
Cross Section

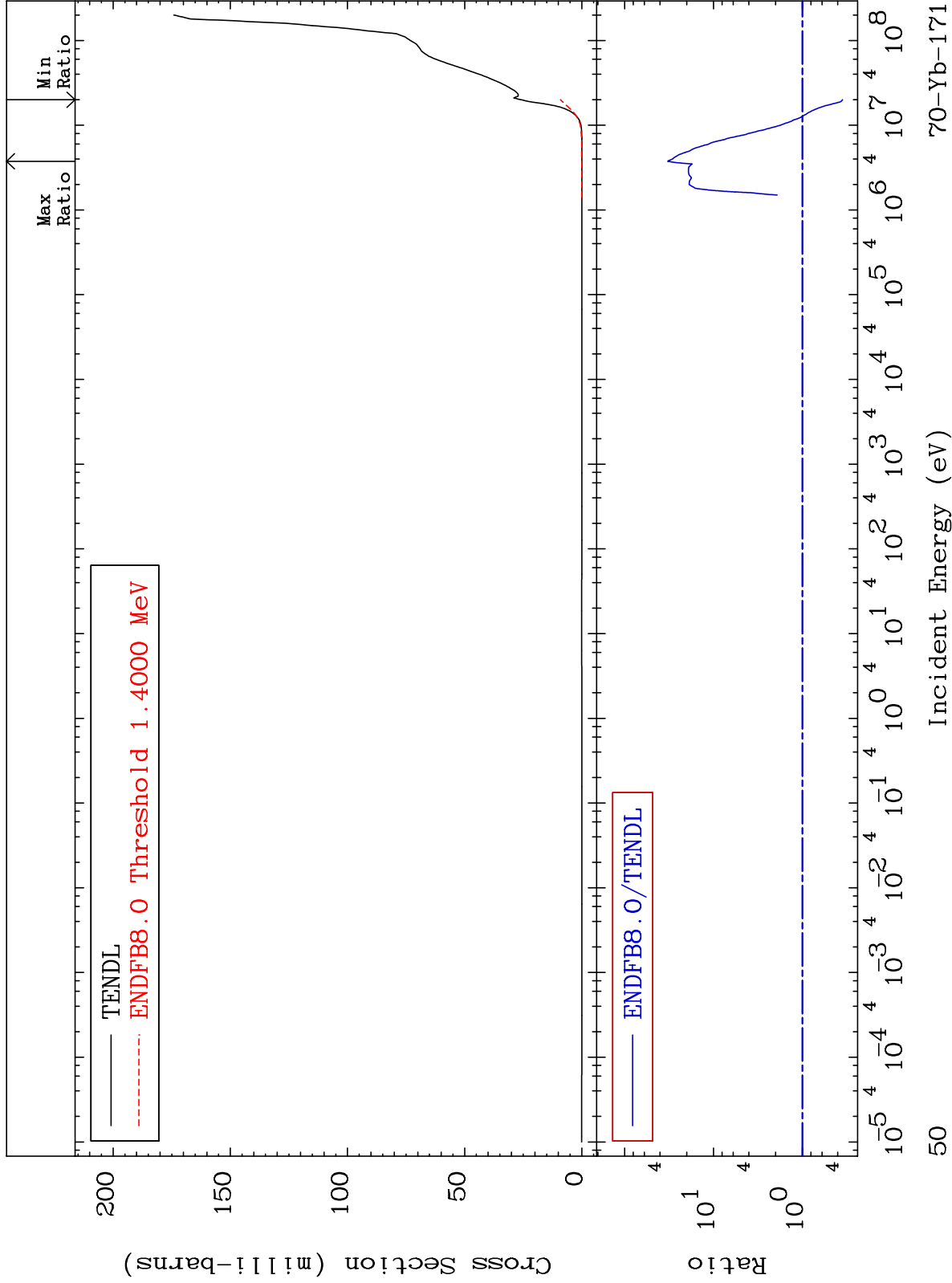
70-Yb-171
391.2 To 9999. %



MAT 7034

He-4 Production
Cross Section

70-Yb-171
-64.87 To 3189. %



50

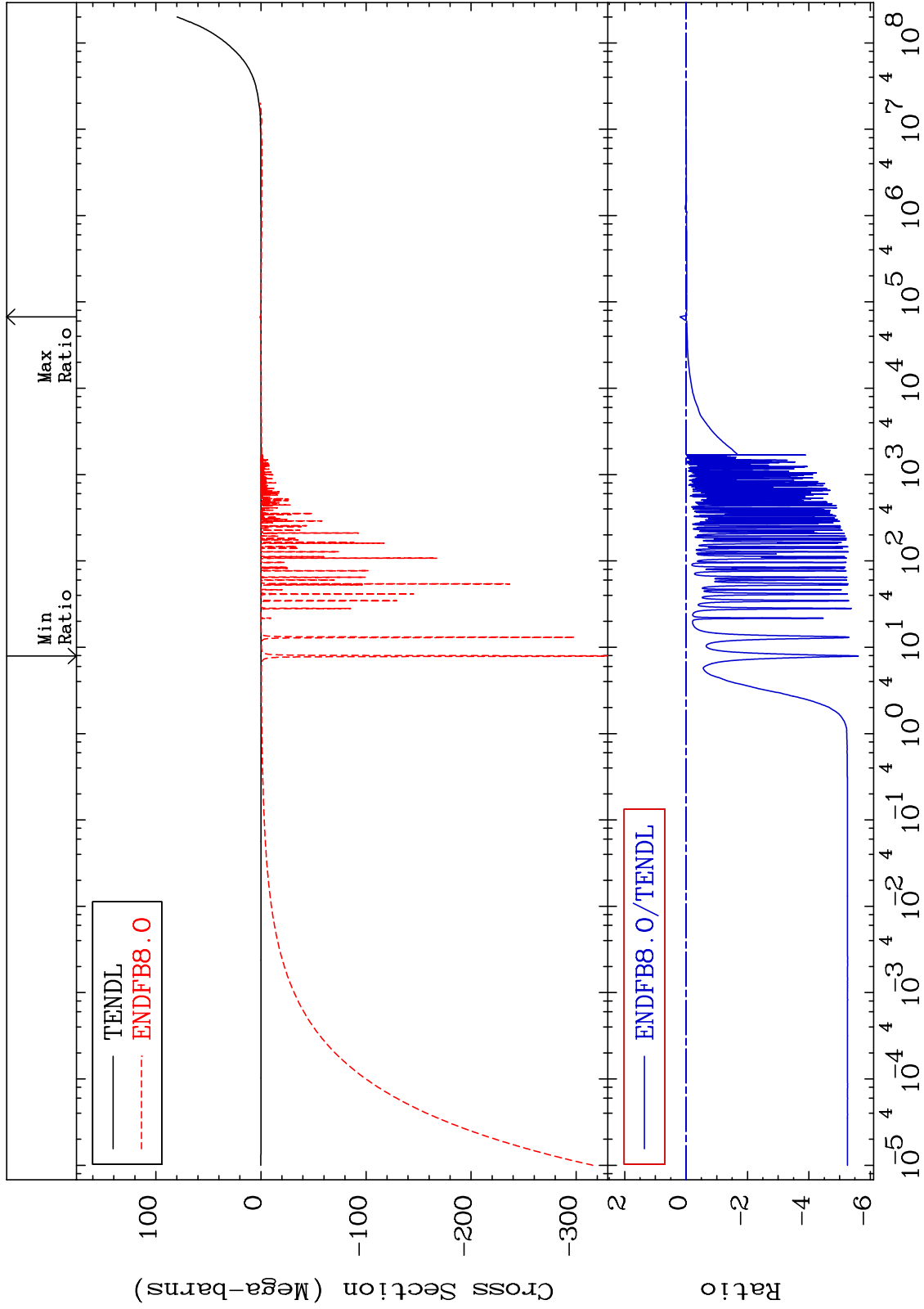
Incident Energy (eV)

70-Yb-171

MAT 7034

Kerma total (eV-barns)
Cross Section

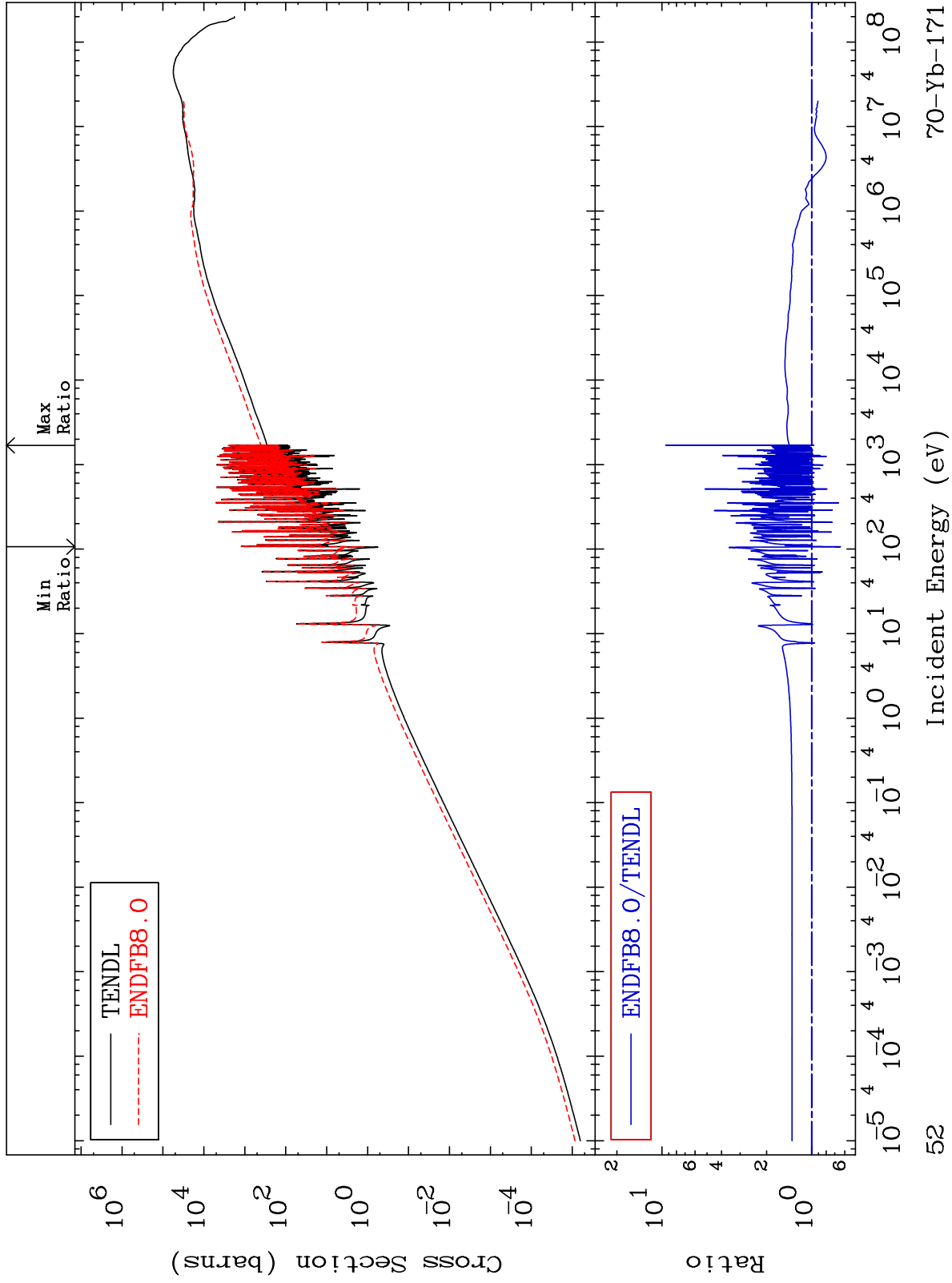
70-Yb-171
-9999. To 9999. %



MAT 7034

Kerma elastic
Cross Section

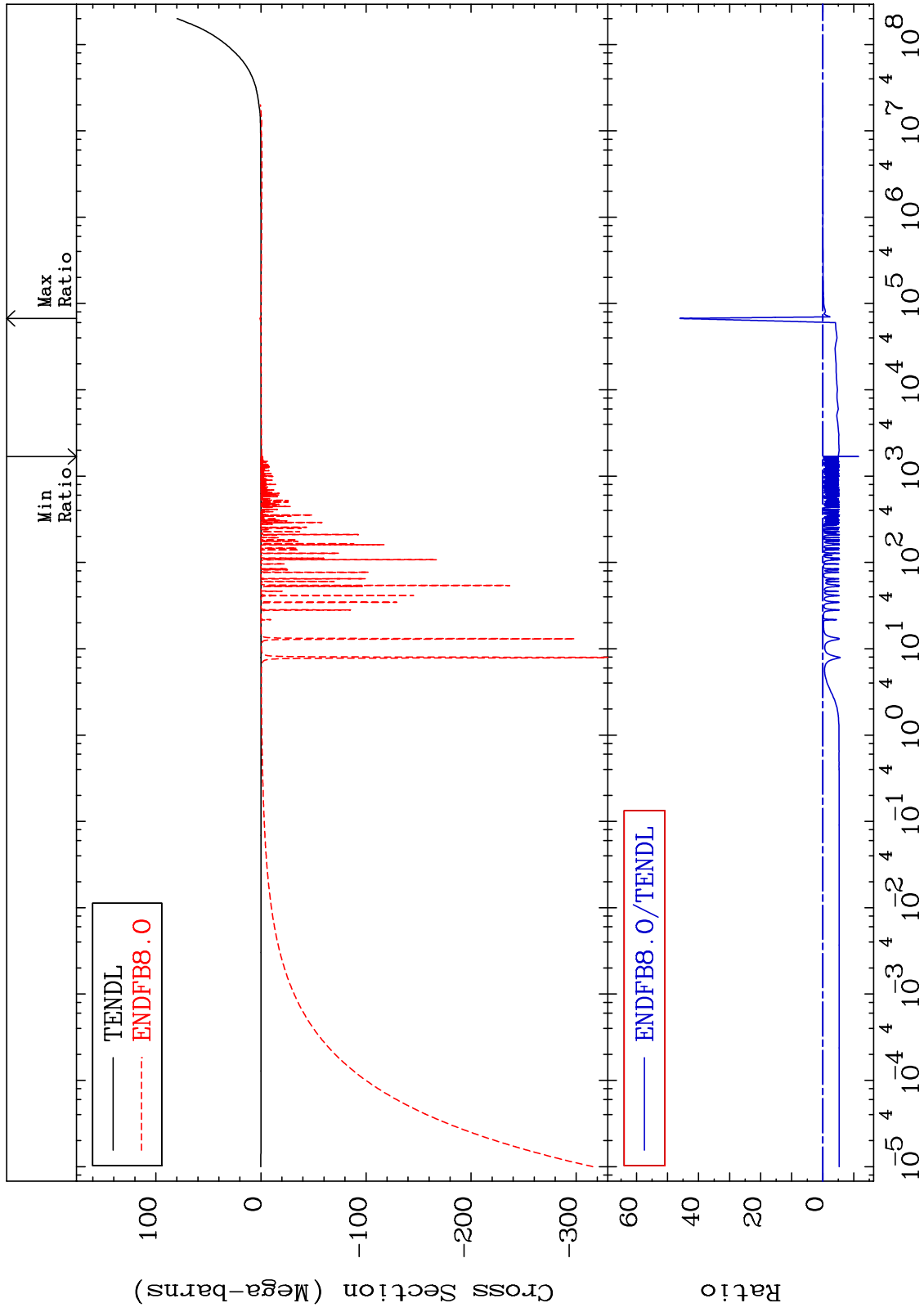
70-Yb-171
-35.93 To 840.6 %



MAT 7034

Kerma non-elastic (all but mt2)
Cross Section

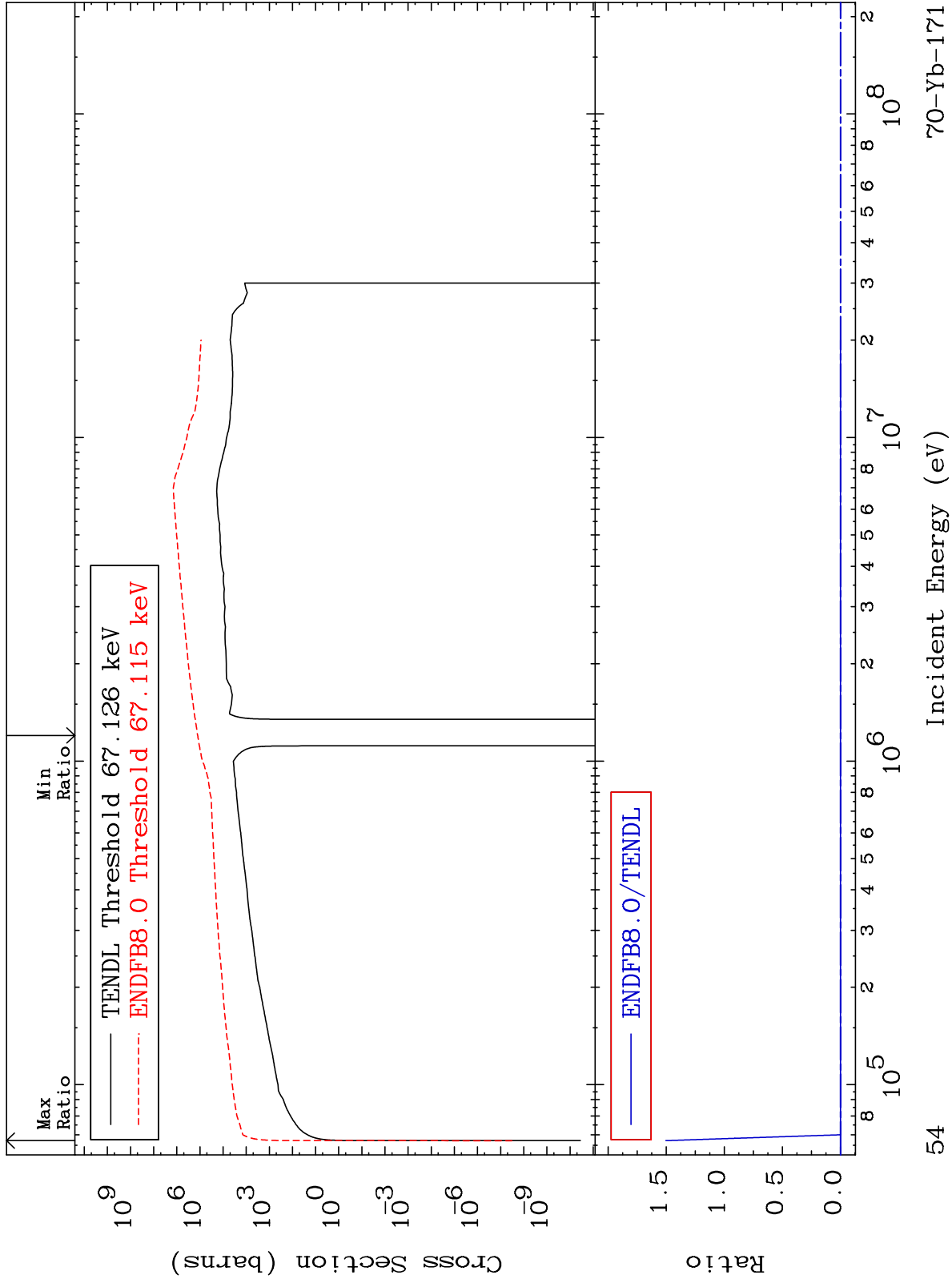
70-Yb-171
-9999. To 9999. %



MAT 7034

Kerma inelastic (mt51-91)
Cross Section

70-Yb-171
-3371. To 9999. %



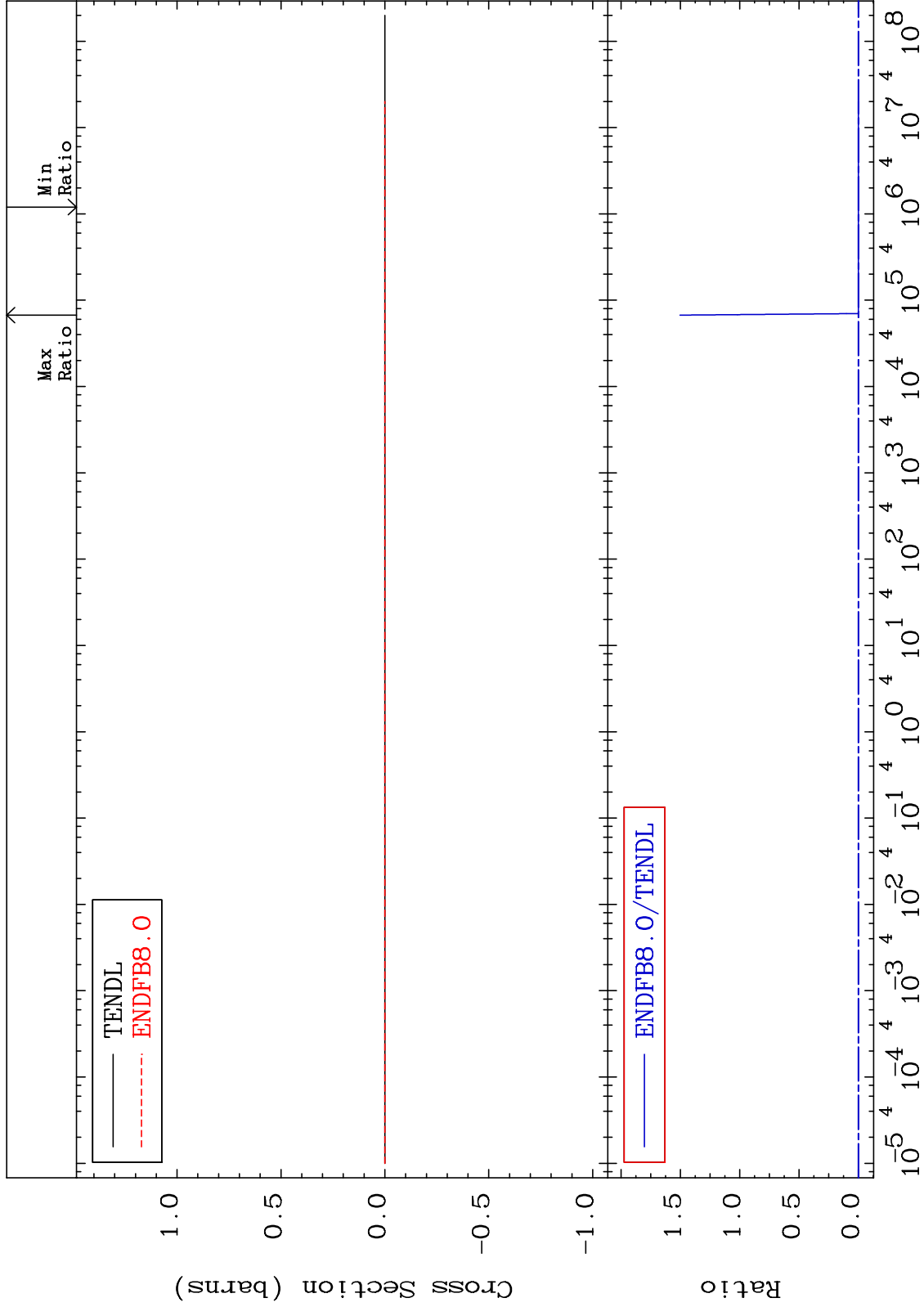
54

70-Yb-171

MAT 7034

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

70-Yb-171
-3371. To 9999. %



55

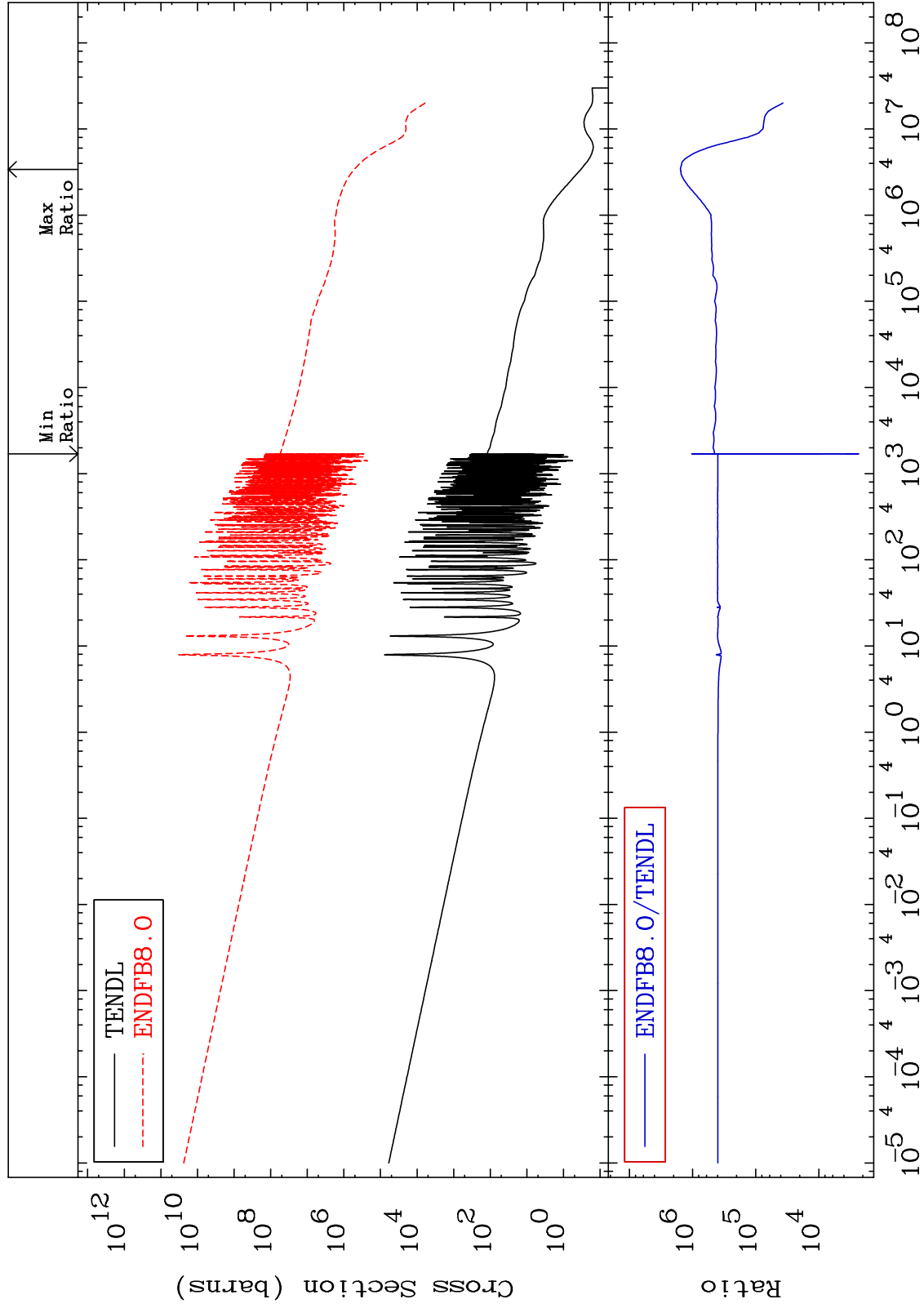
Incident Energy (eV)

70-Yb-171

MAT 7034

Kerma capture (mt102)
Cross Section

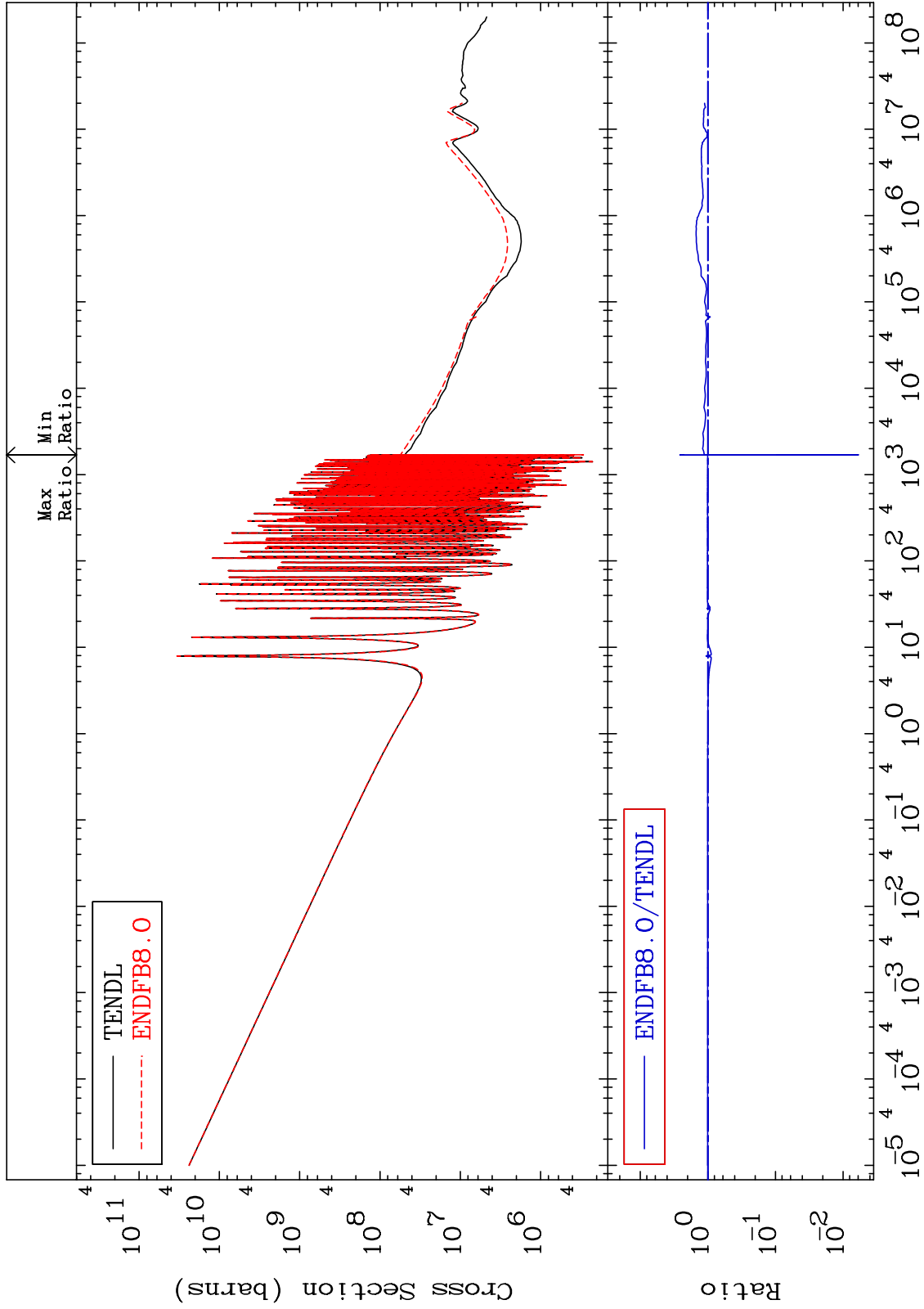
70-Yb-171
9999. To 9999. %



MAT 7034

Total photon (eV-barns)
Cross Section

70-Yb-171
-99.41 To 157.8 %



57

Incident Energy (eV)

70-Yb-171

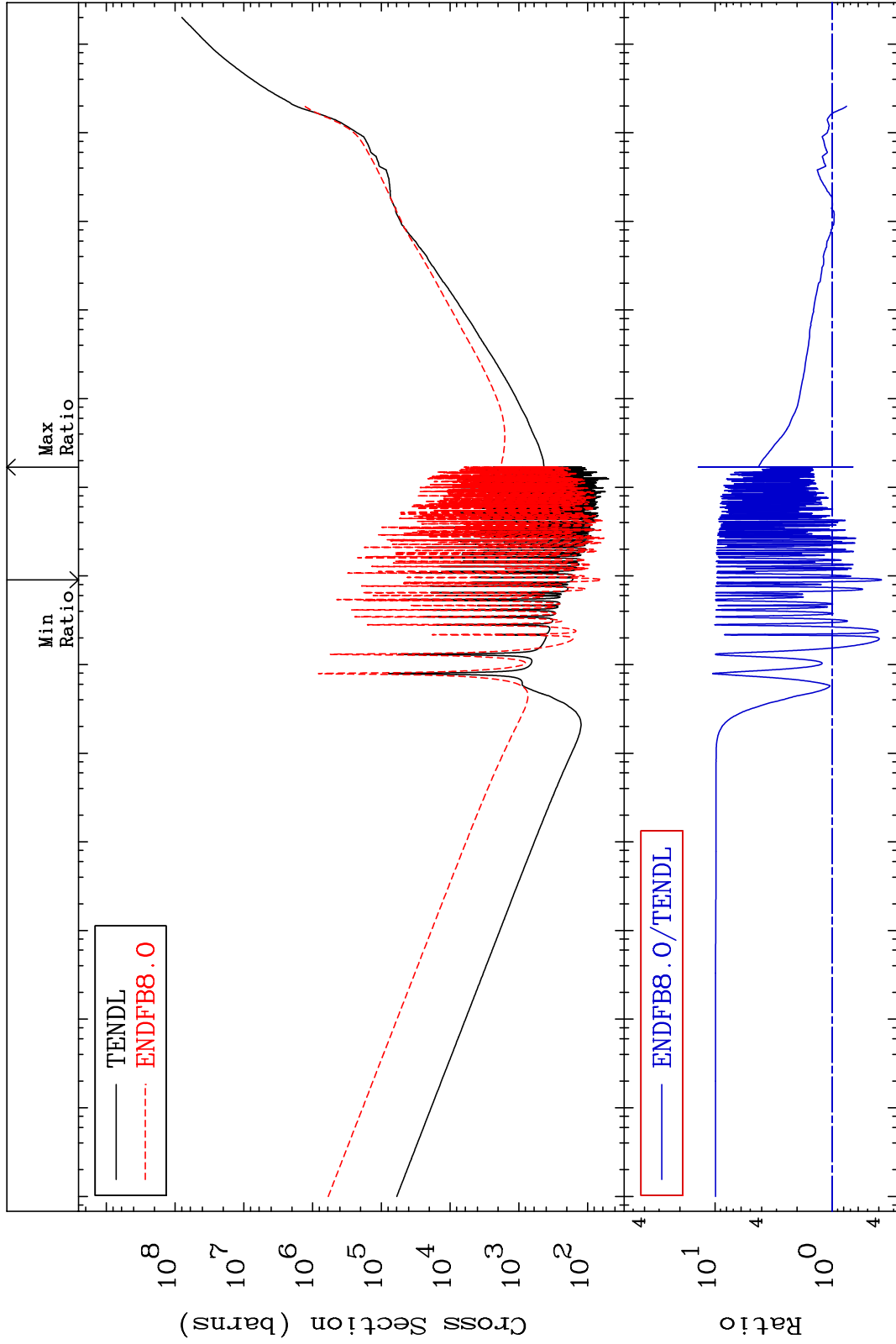
MAT 7034

Total kinematic kerma (high limit)

70-Yb-171

-62.04 To 1289. %

Cross Section



58

Incident Energy (eV)

70-Yb-171

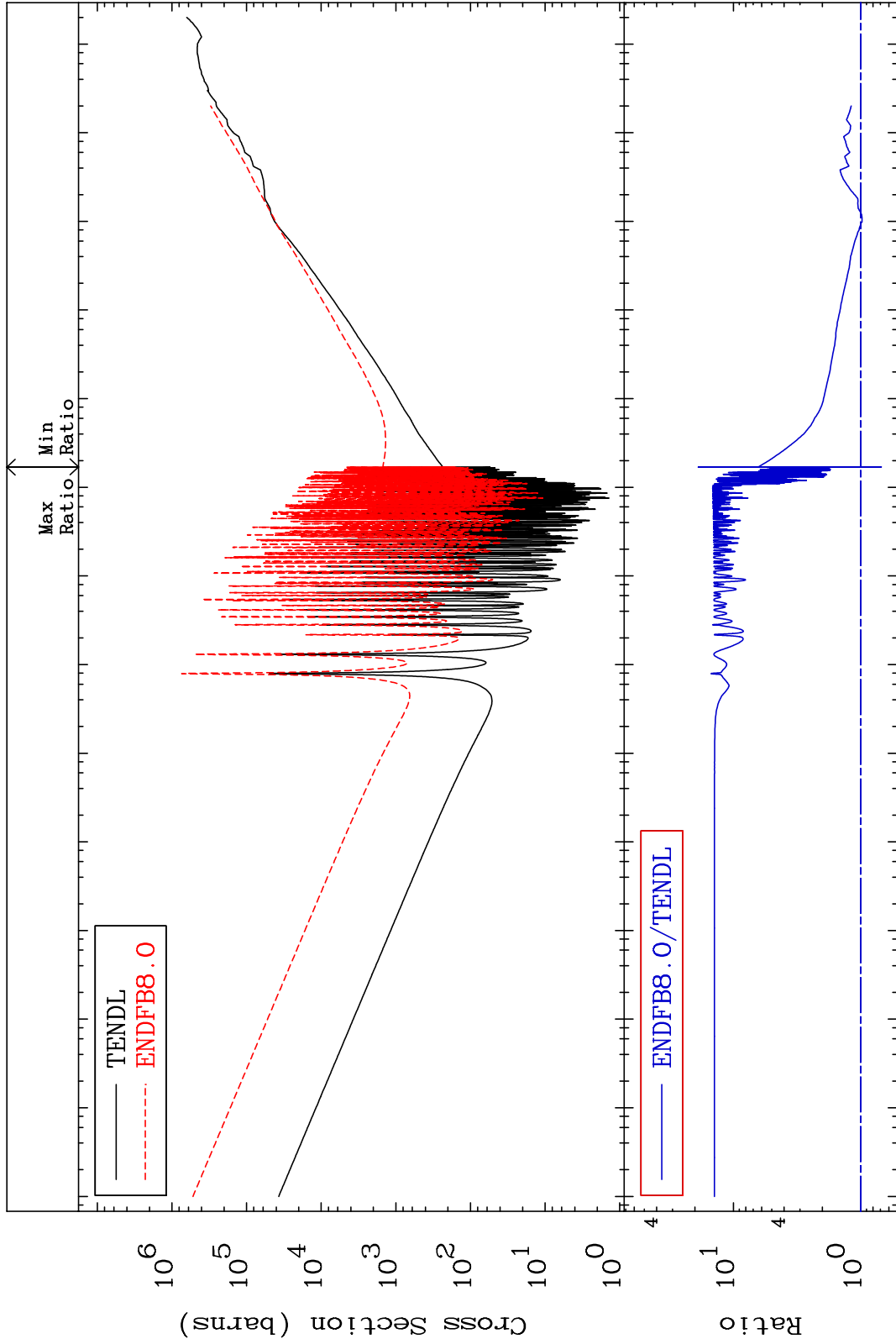
MAT 7034

Dpa total (eV-barns)

70-Yb-171

-31.52 To 1783. %

Cross Section



Ratio

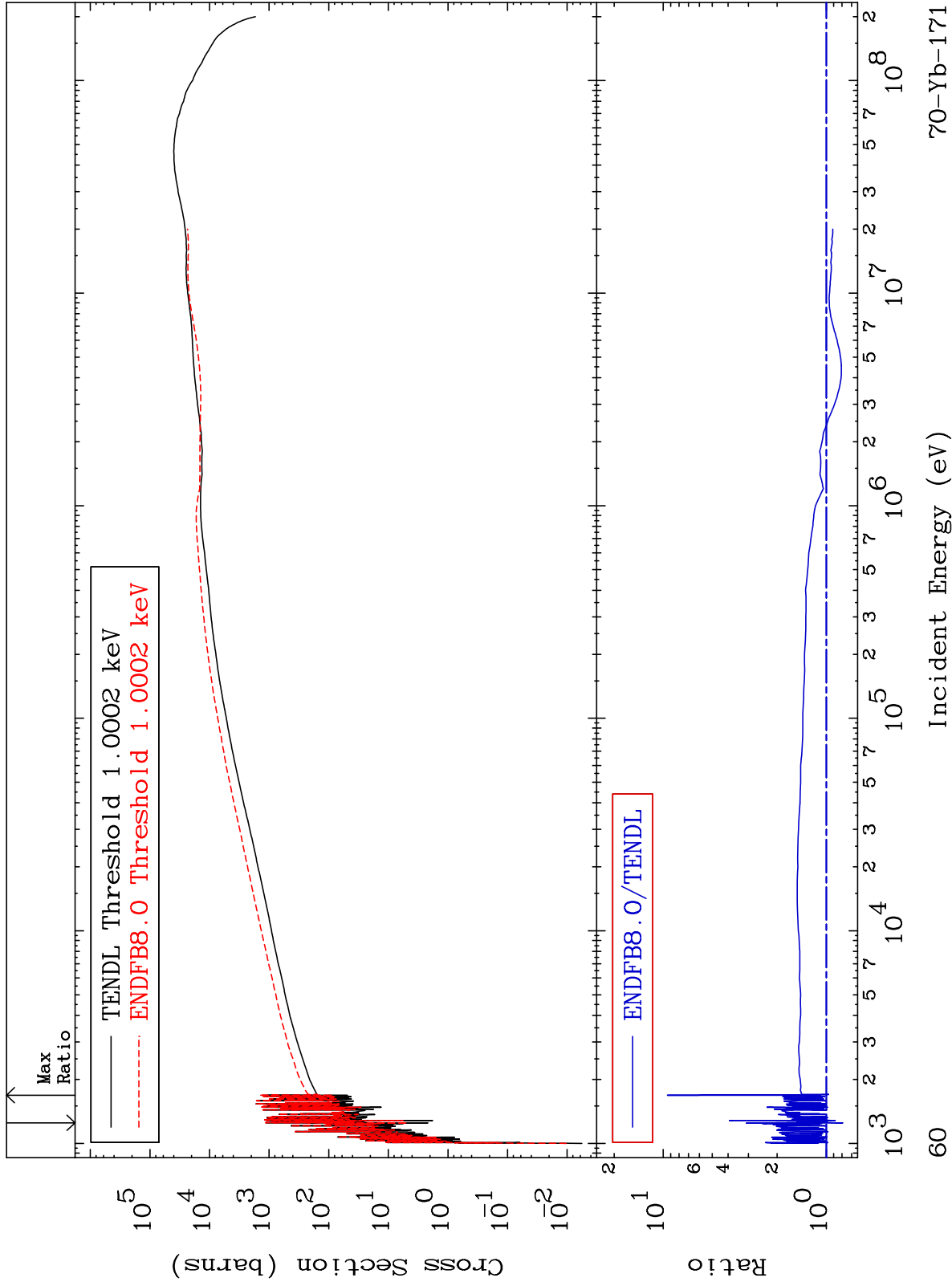
Incident Energy (eV)

70-Yb-171

MAT 7034

Dpa elastic (mt2)
Cross Section

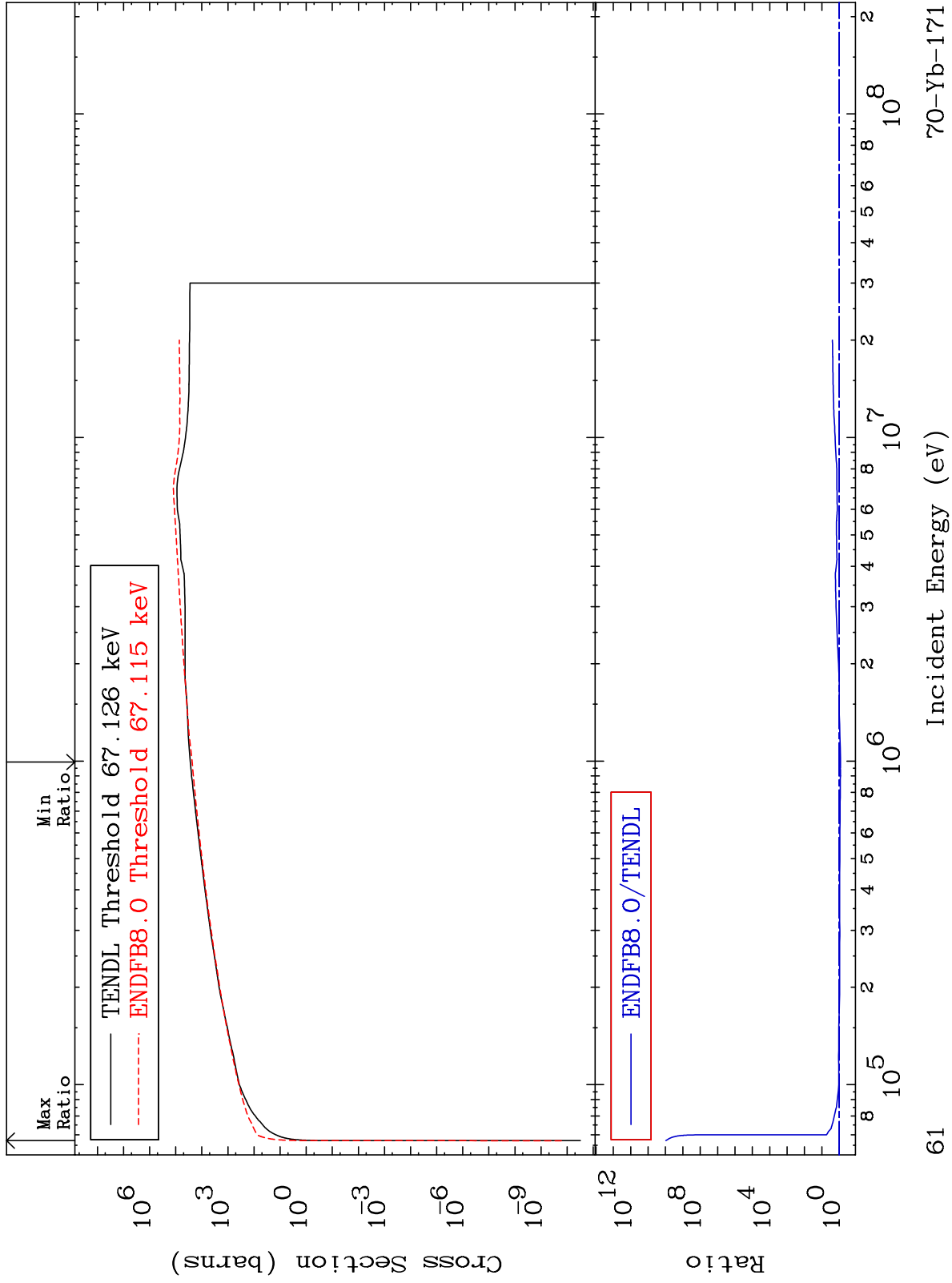
70-Yb-171
-20.69 To 840.4 %



MAT 7034

Dpa inelastic (mt51-91)
Cross Section

70-Yb-171
-15.66 To 9999. %



MAT 7034

Dpa disappearance (mt102 -120)
Cross Section

70-Yb-171
-91.31 To 9999. %

