

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

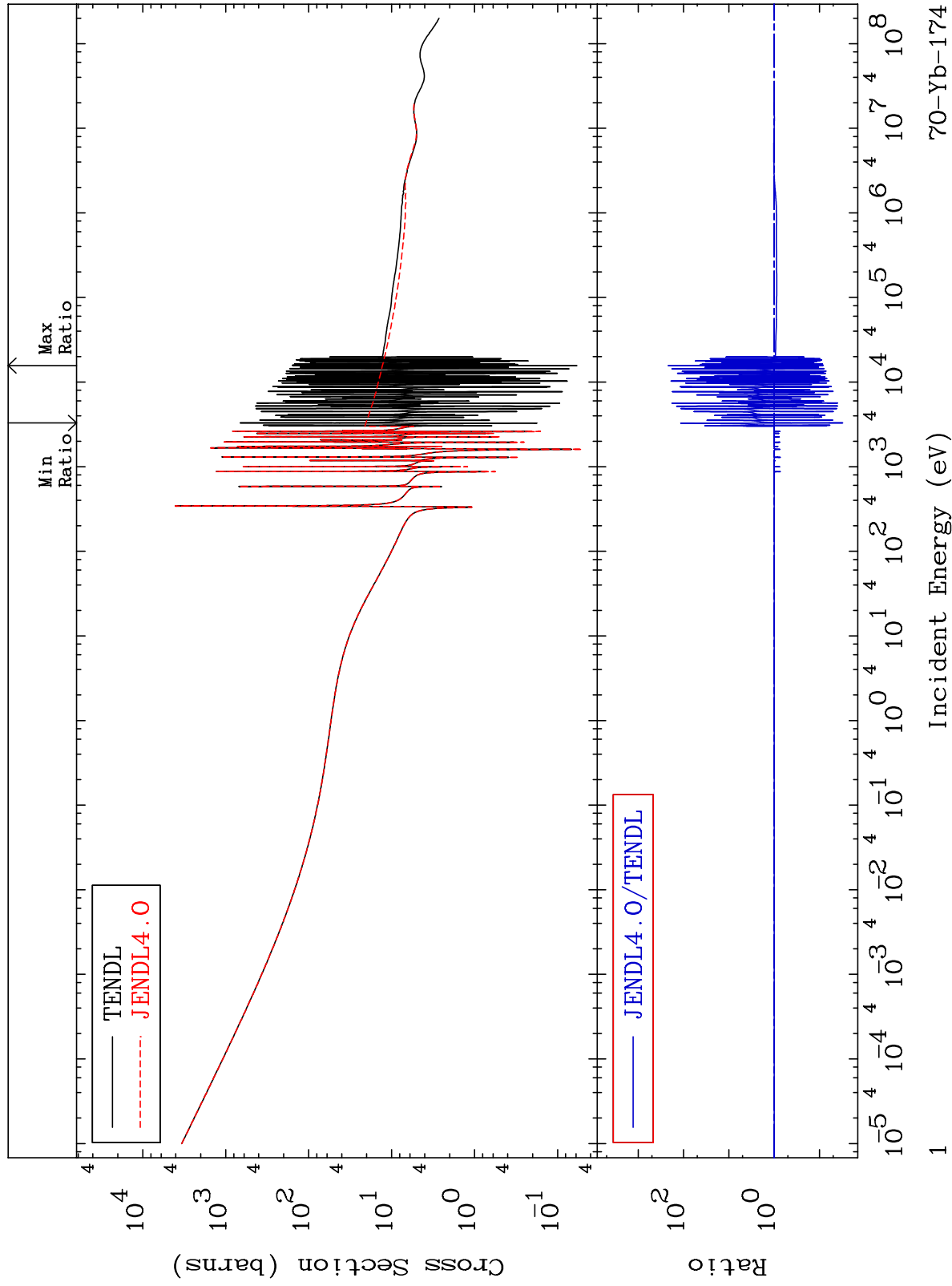
MAT 7043

Total

Cross Section

70-Yb-174

-96.95 To 9999. %

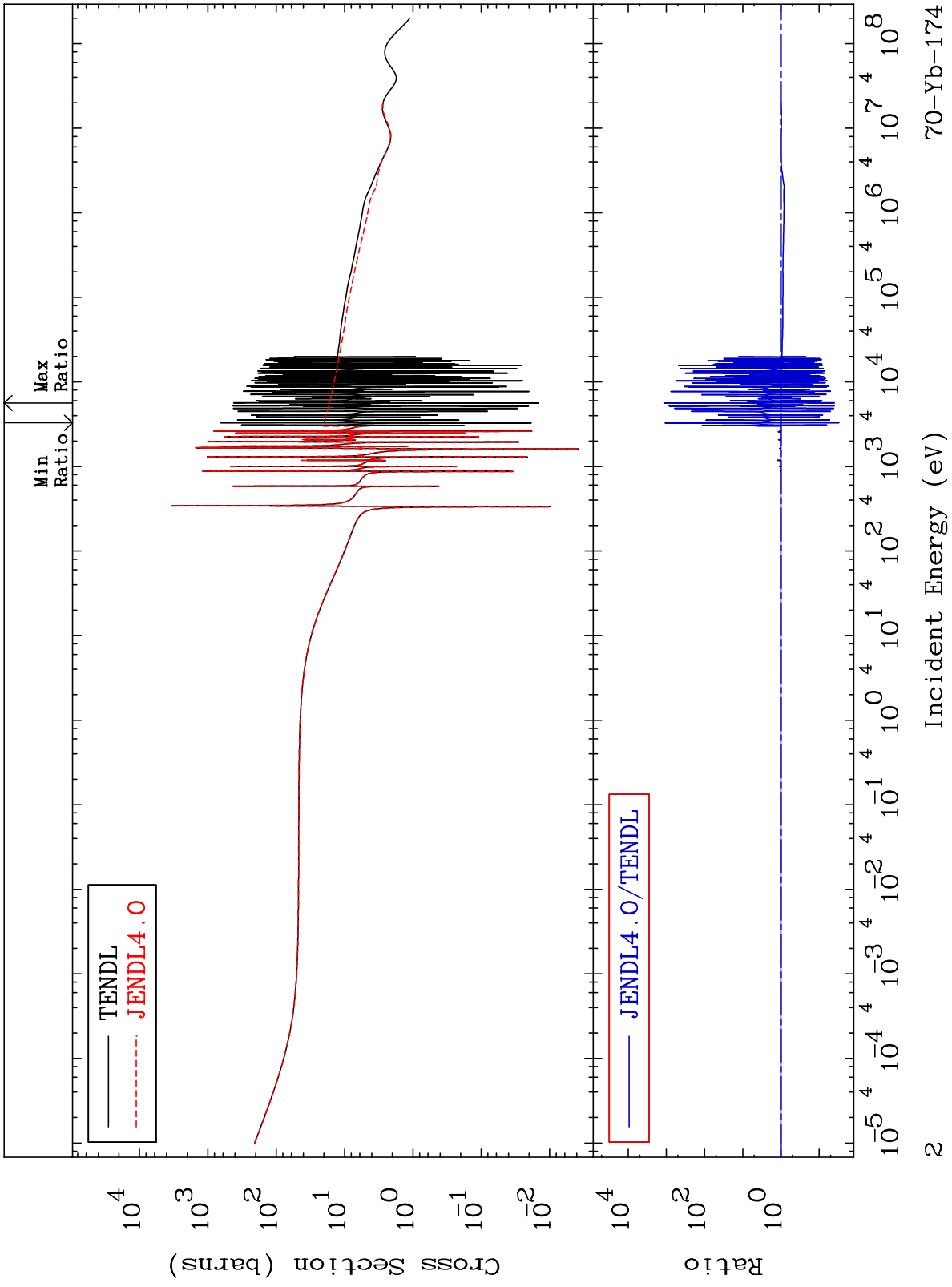


70-Yb-174

MAT 7043

Elastic
Cross Section

70-Yb-174
-96.96 To 9999. %



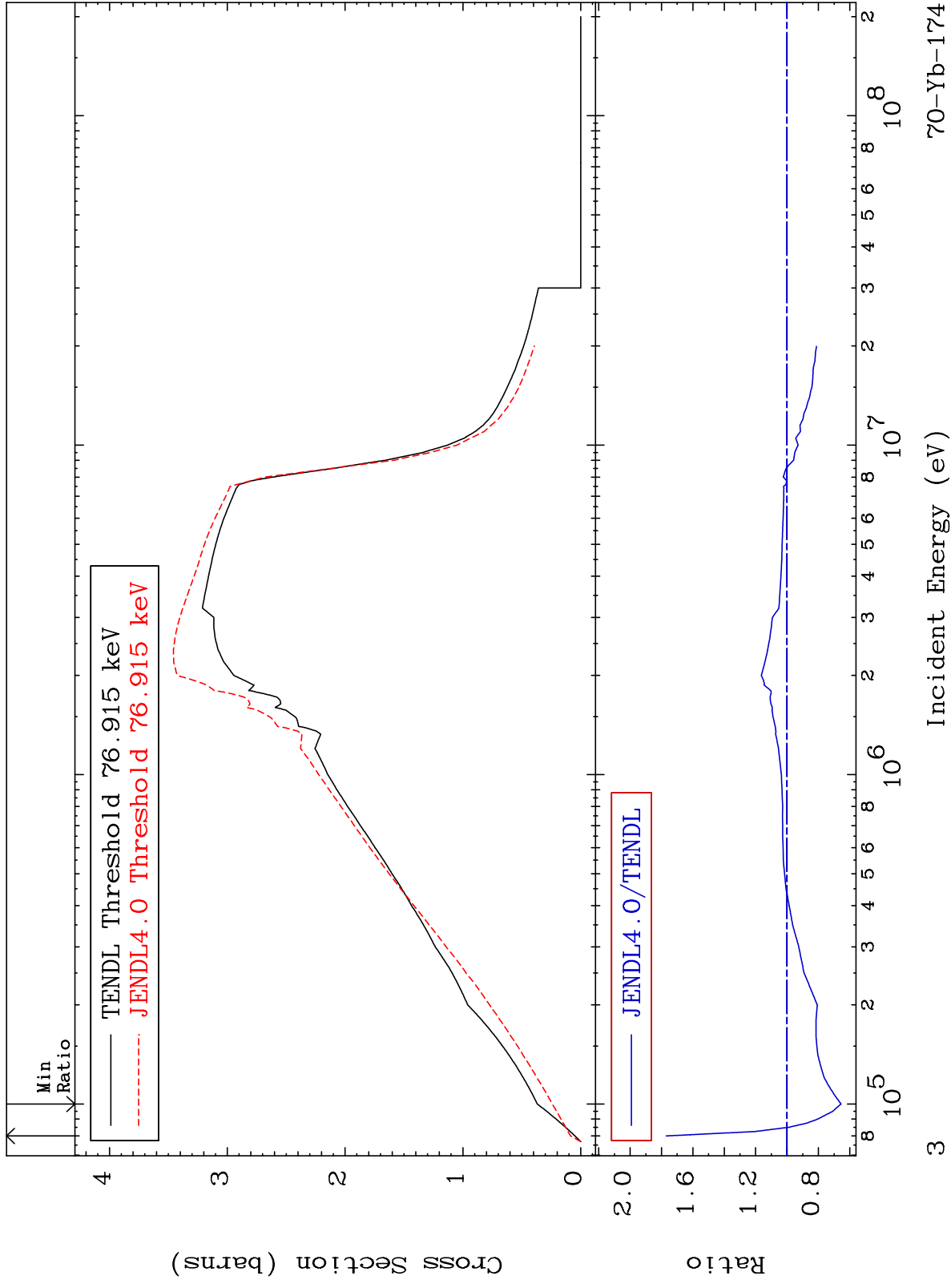
70-Yb-174

Incident Energy (eV)

MAT 7043

Inelastic
Cross Section

70-Yb-174
-34.45 To 76.96 %



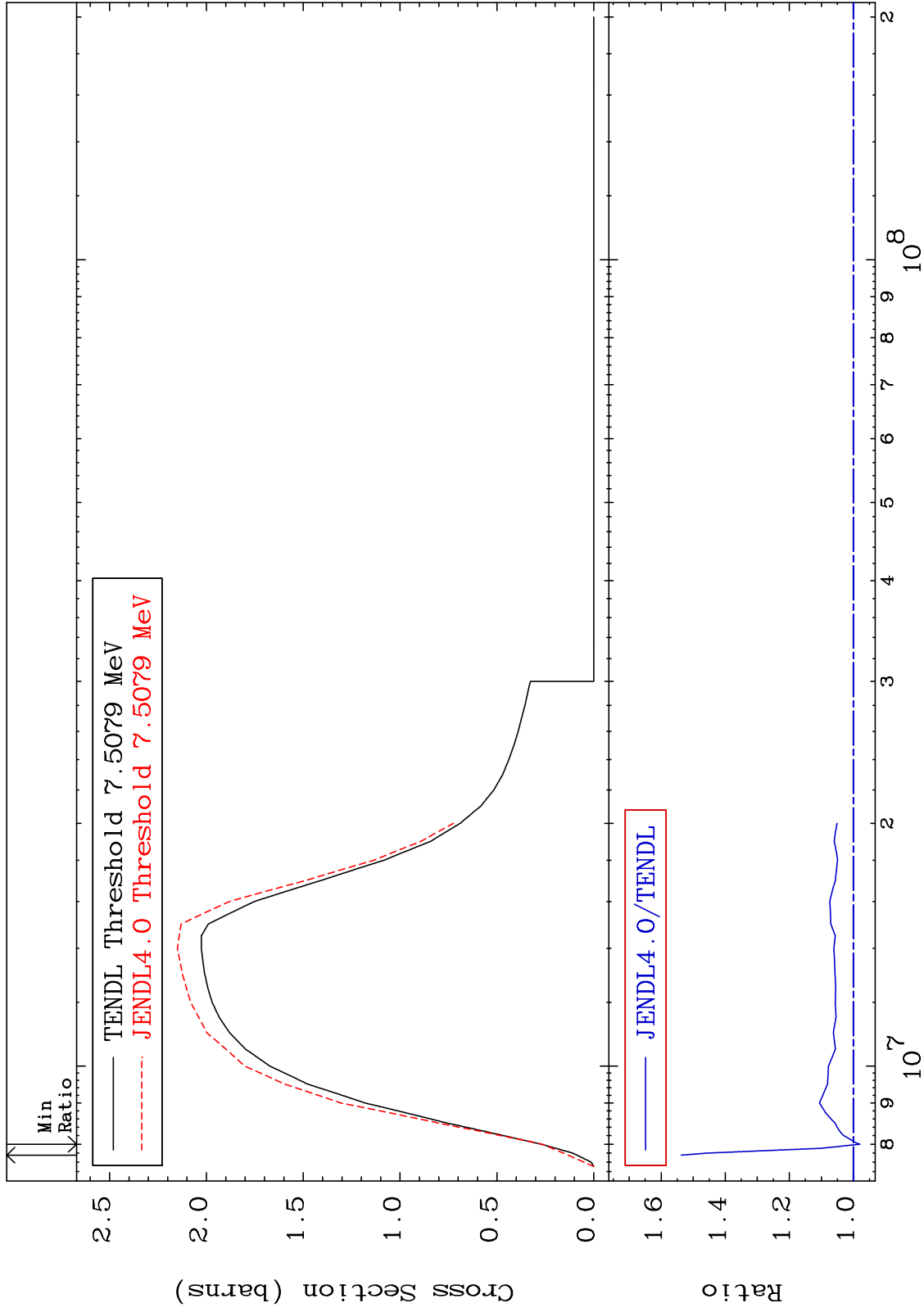
MAT 7043

(n,2n)

70-Yb-174

Cross Section

-2.038 To 53.75 %



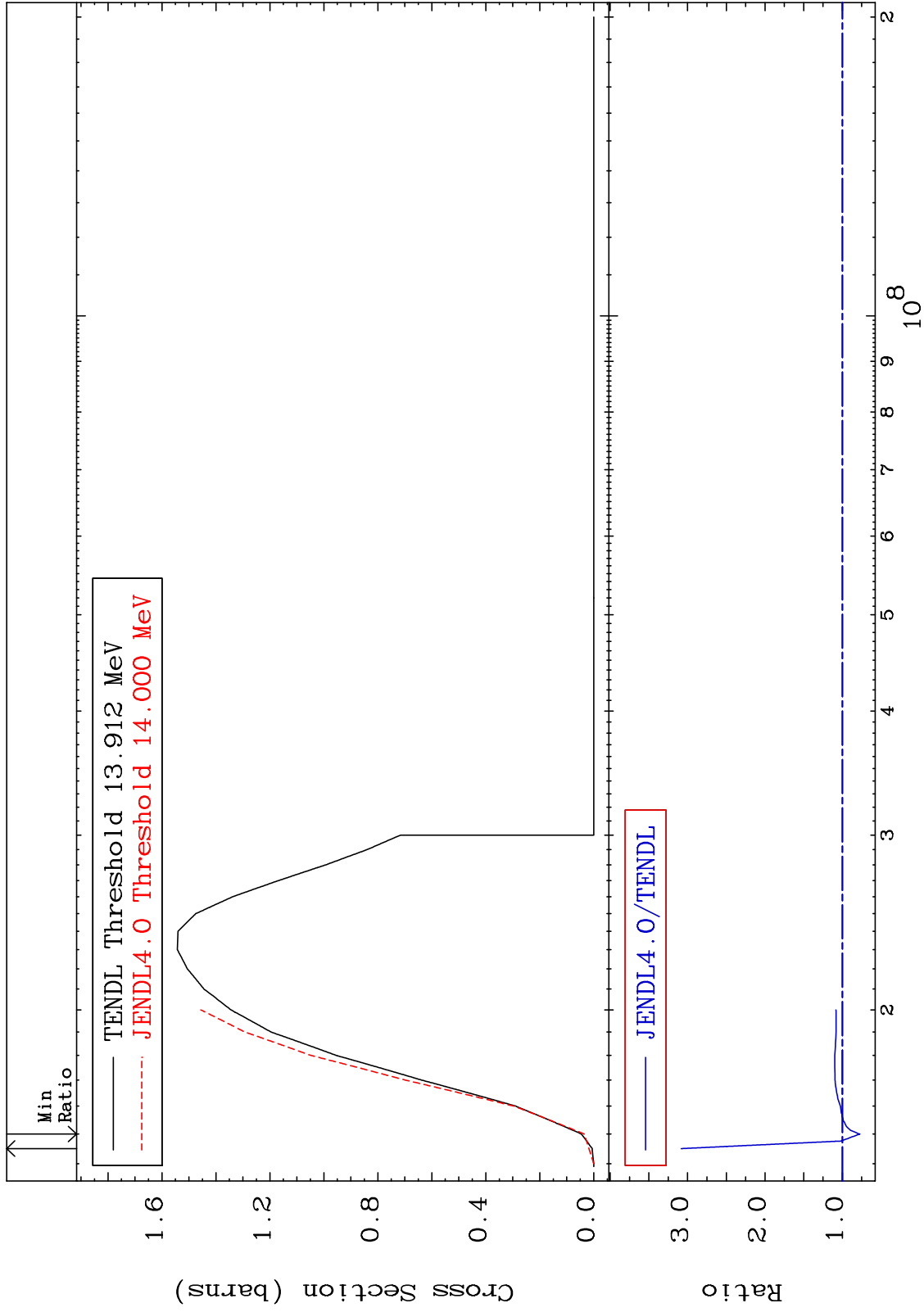
MAT 7043

(n, 3n)

70-Yb-174

Cross Section

-22.68 To 208.2 %



5

70-Yb-174

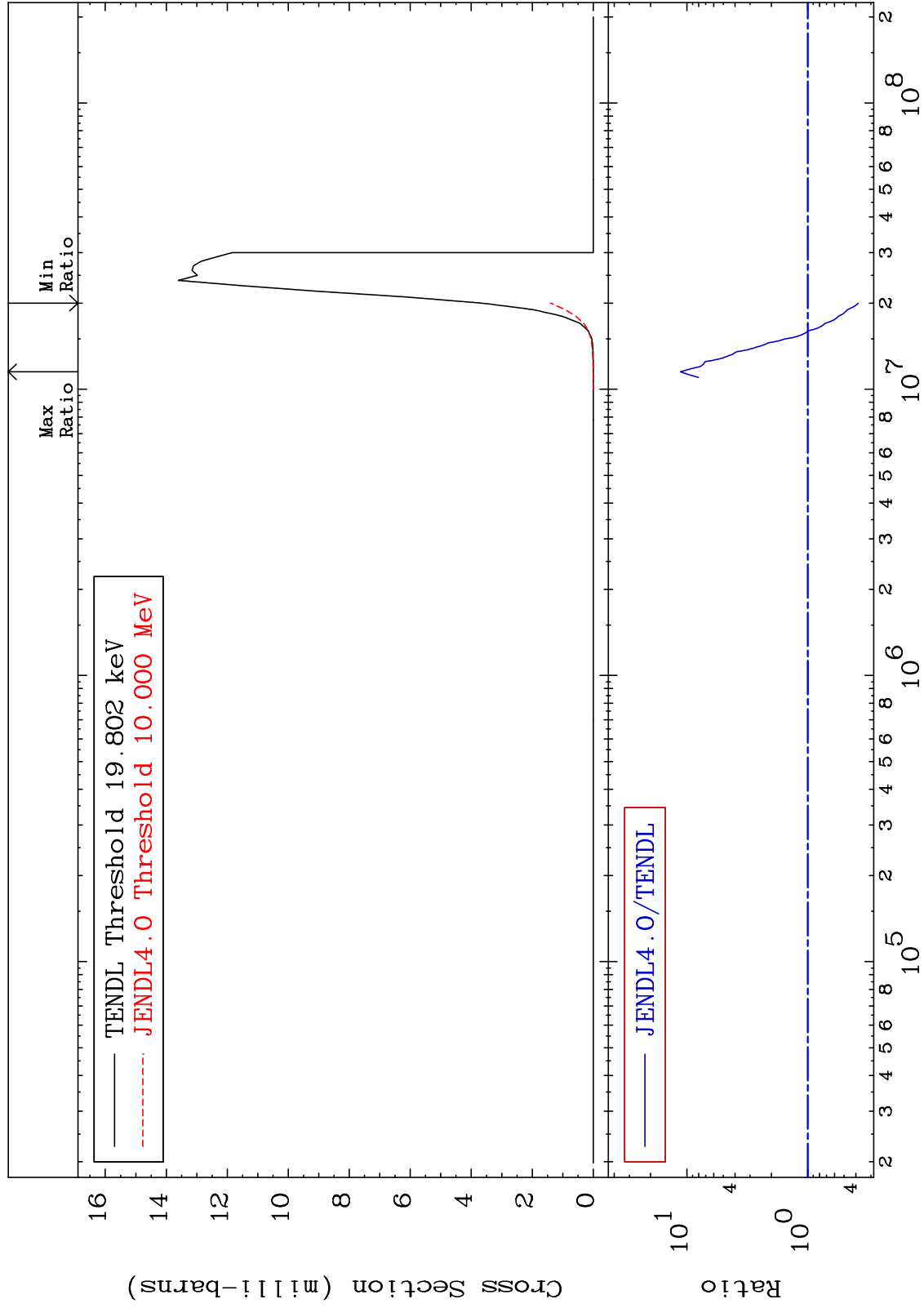
MAT 7043

(n,n') α

Cross Section

70-Yb-174

-62.01 To 1033. %



6

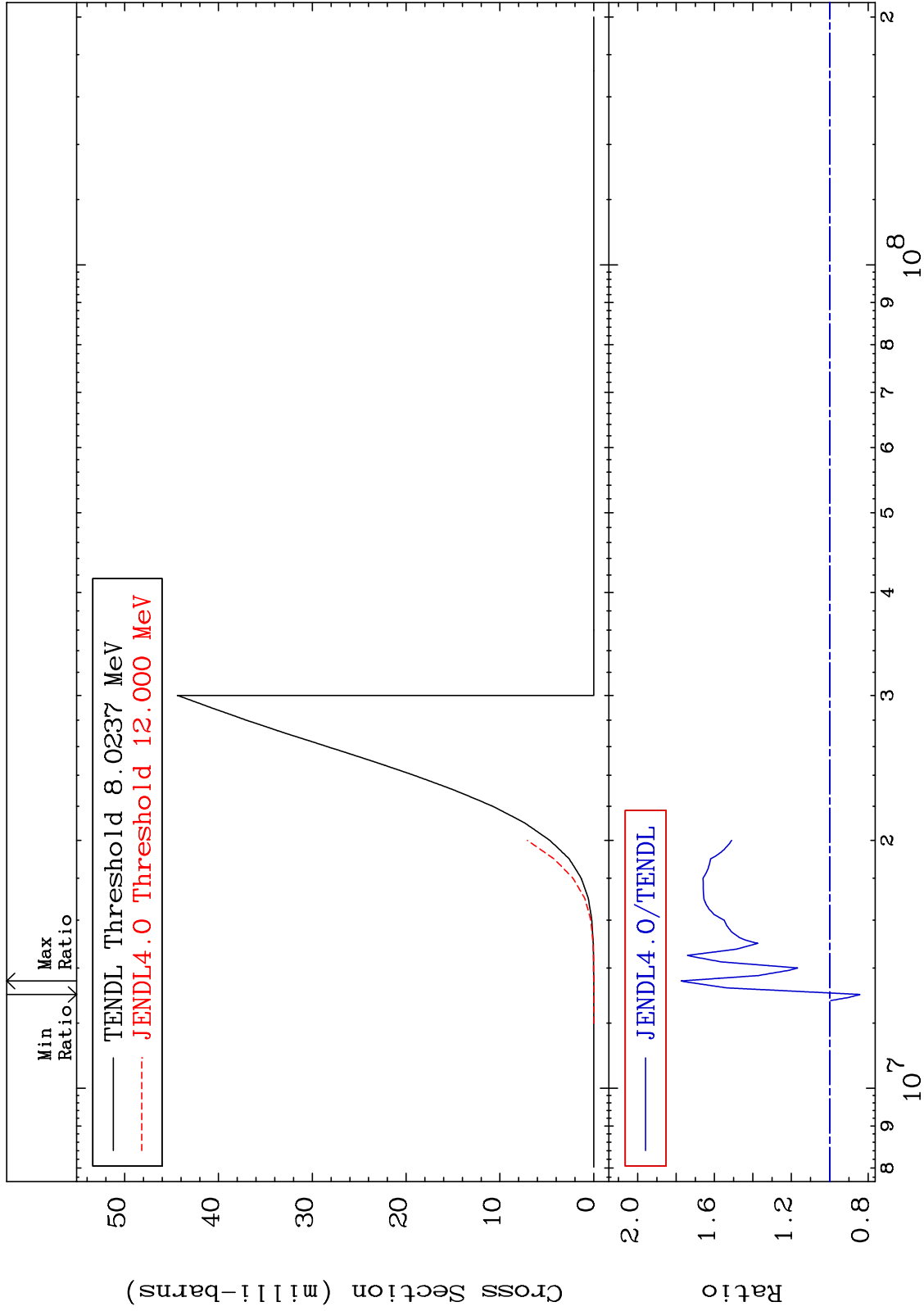
Incident Energy (eV)

70-Yb-174

MAT 7043

(n,n') p
Cross Section

70-Yb-174
-15.74 To 77.31 %



70-Yb-174

Incident Energy (eV)

7

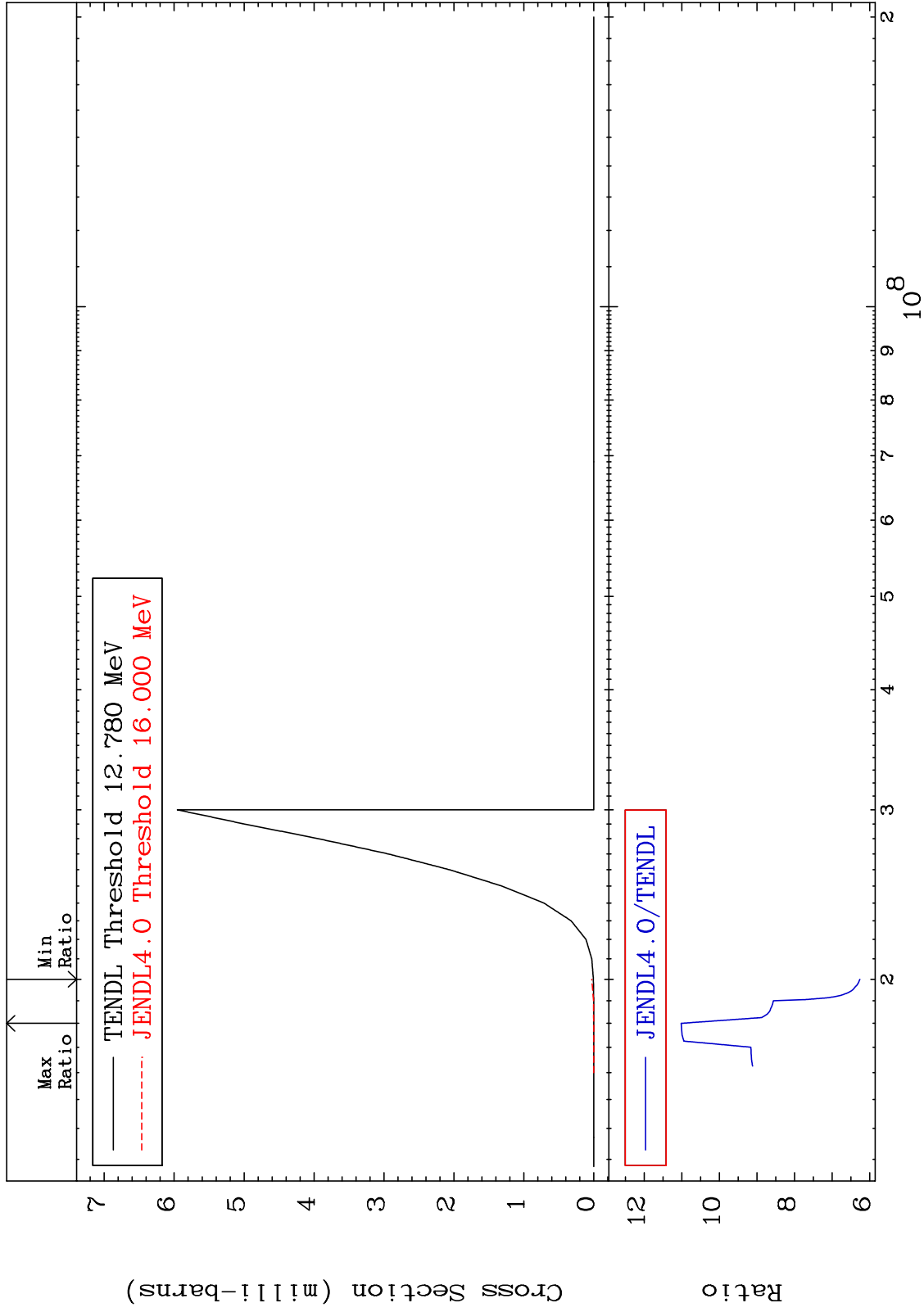
MAT 7043

(n,n') d

70-Yb-174

Cross Section

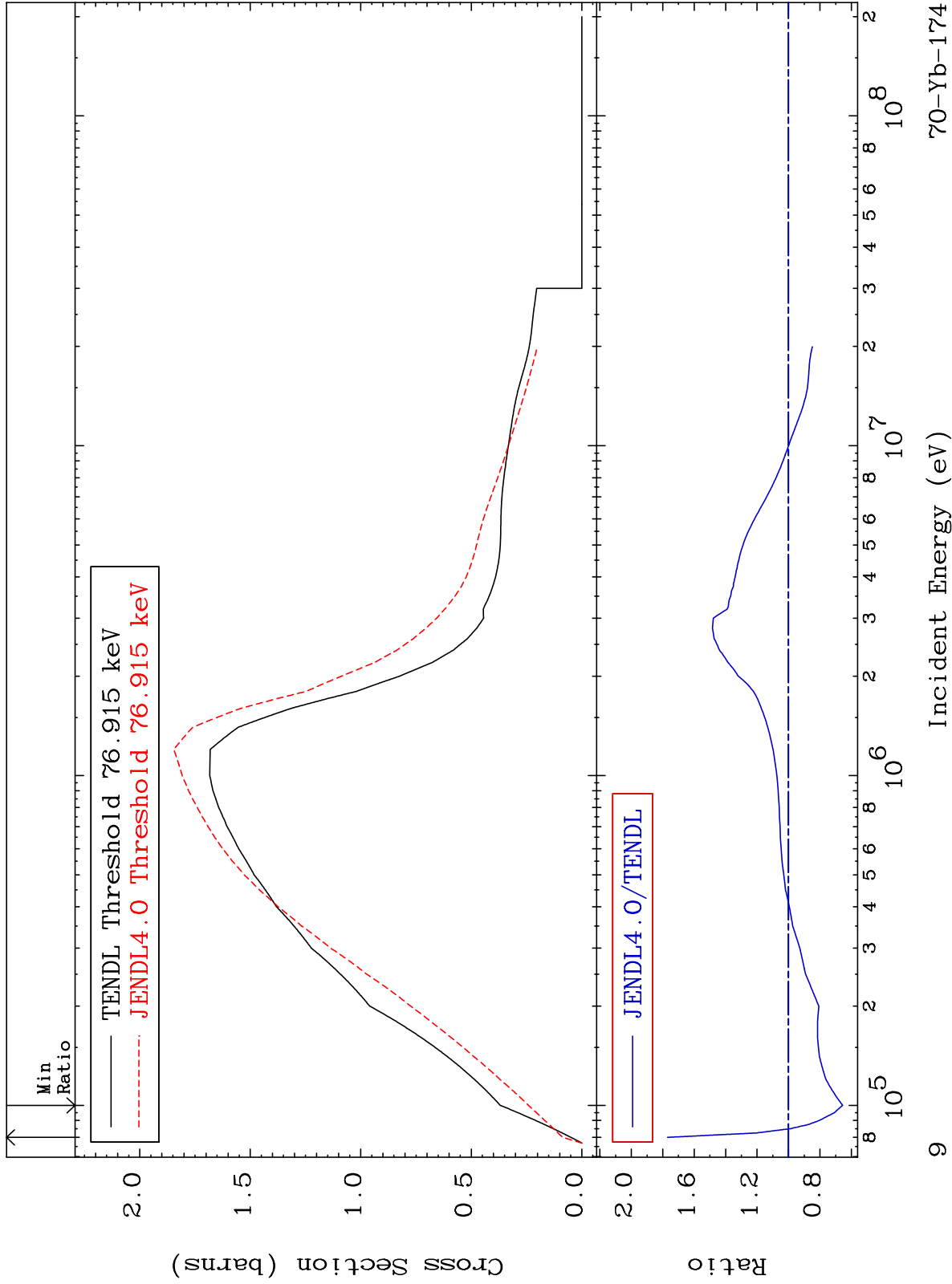
526.3 To 1002. %



MAT 7043

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

70-Yb-174
-34.45 To 76.96 %



70-Yb-174

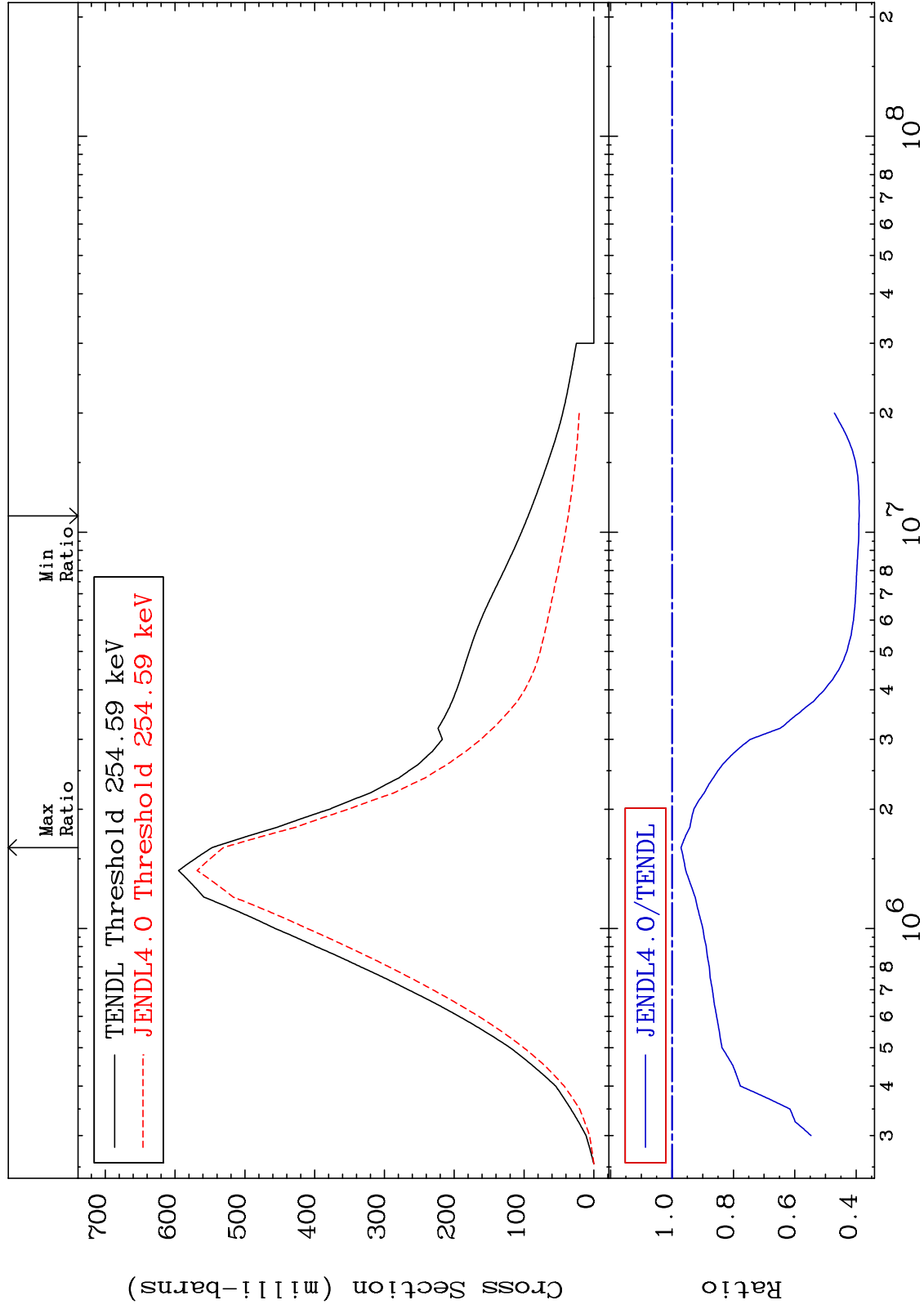
Incident Energy (eV)

9

MAT 7043

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

70-Yb-174
-60.99 To -2.955%



10

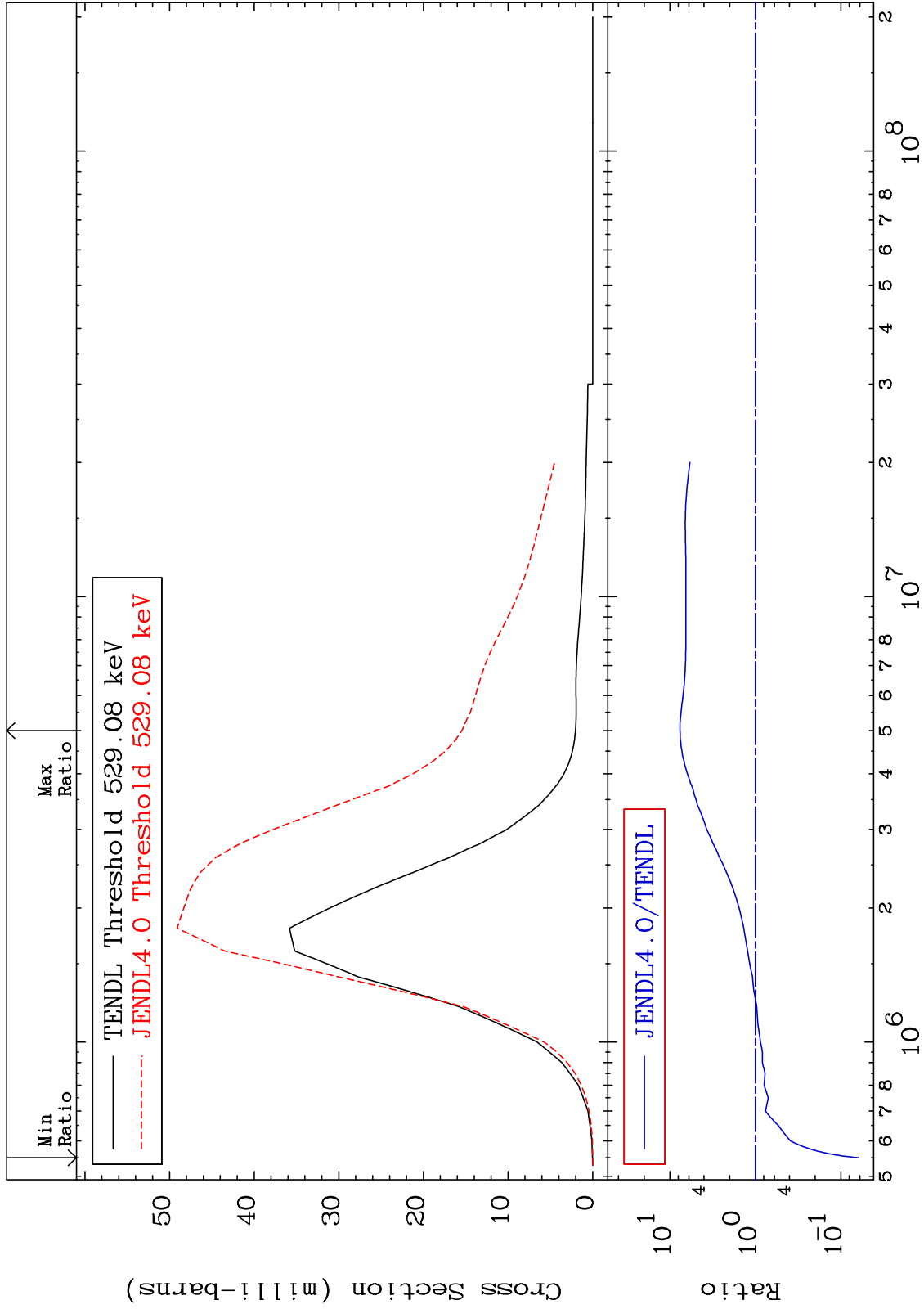
Incident Energy (eV)

70-Yb-174

MAT 7043

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

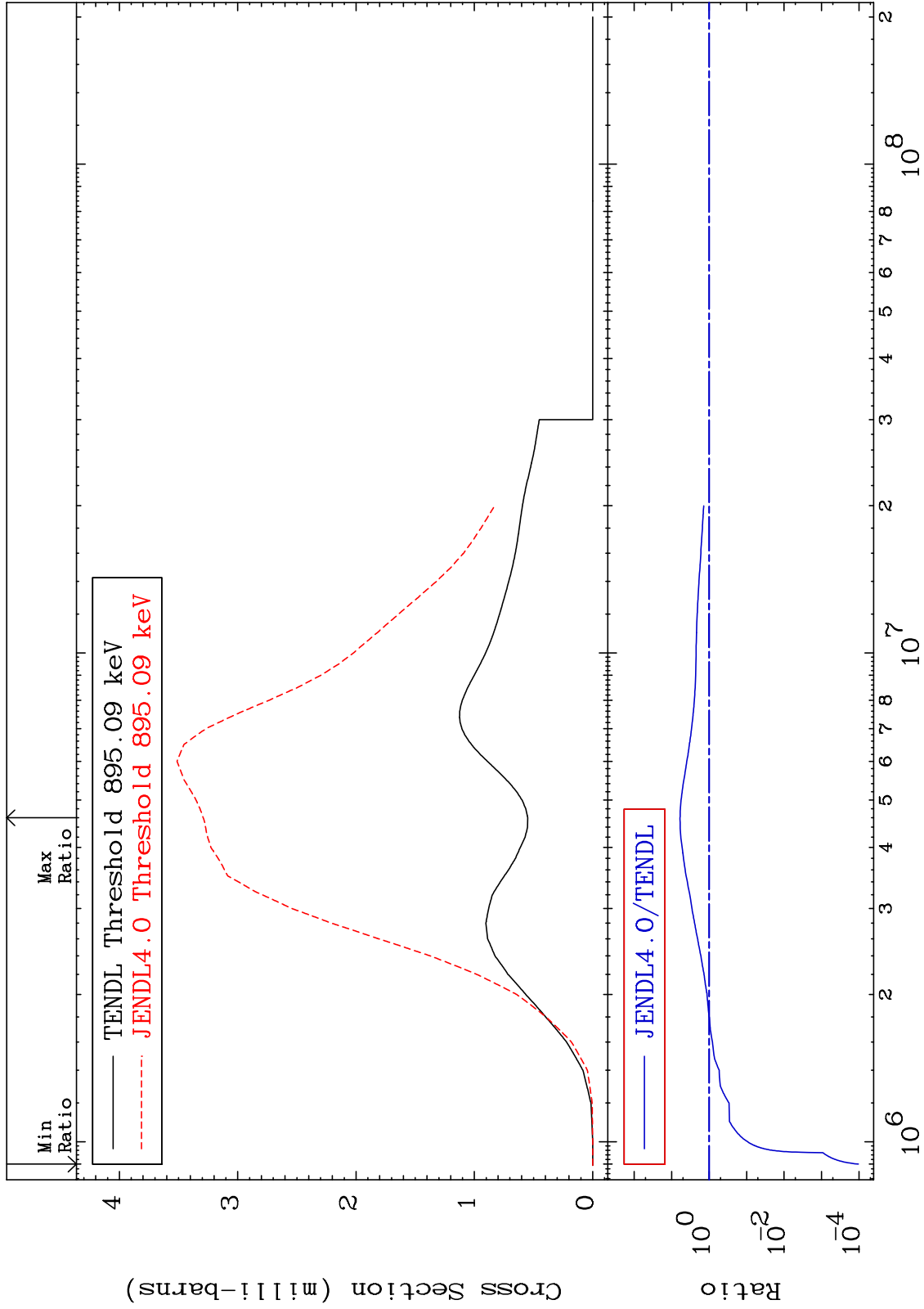
70-Yb-174
-93.74 To 662.5 %



MAT 7043

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

70-Yb-174
-99.99 To 499.4 %

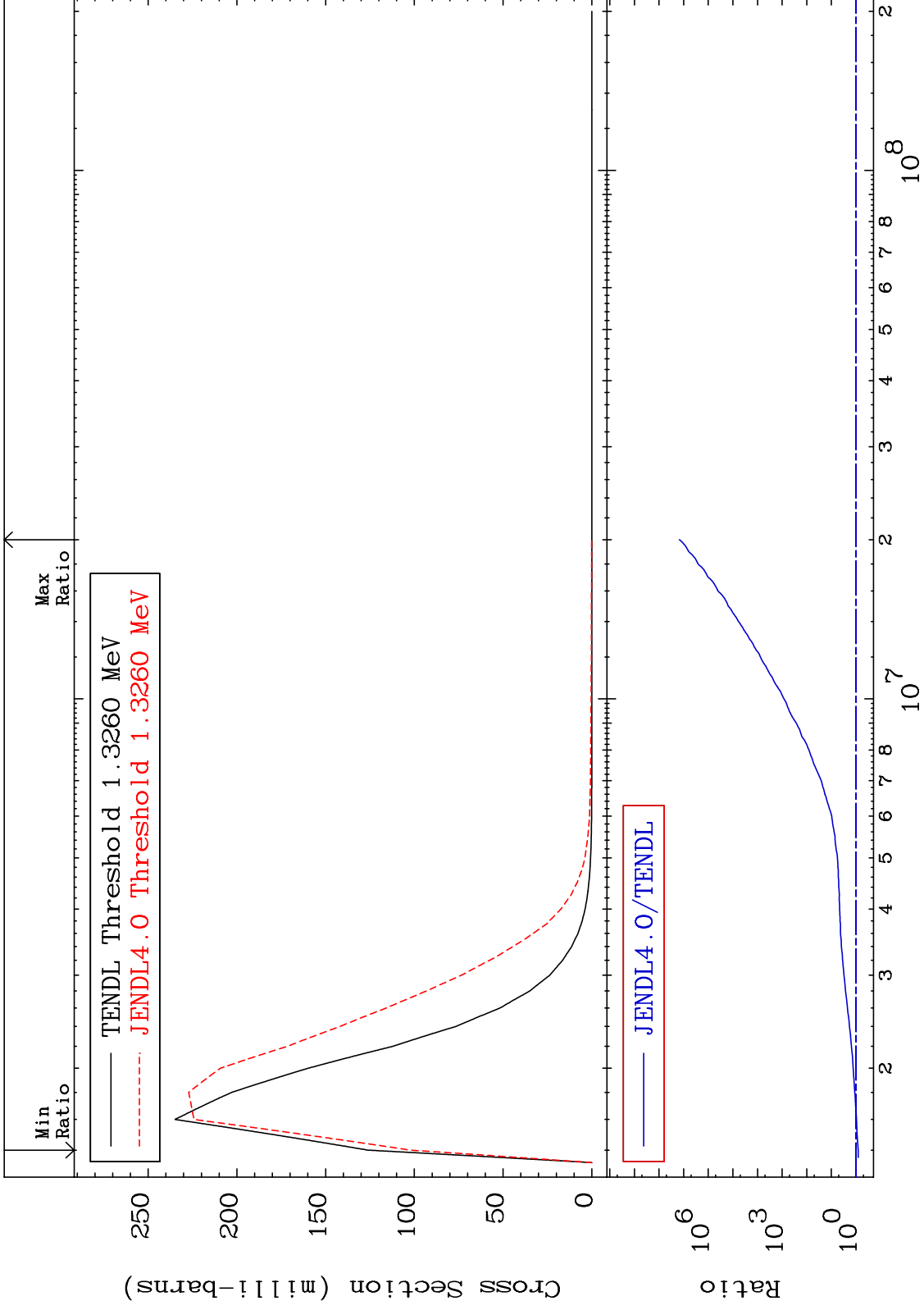


12 70-Yb-174

MAT 7043

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

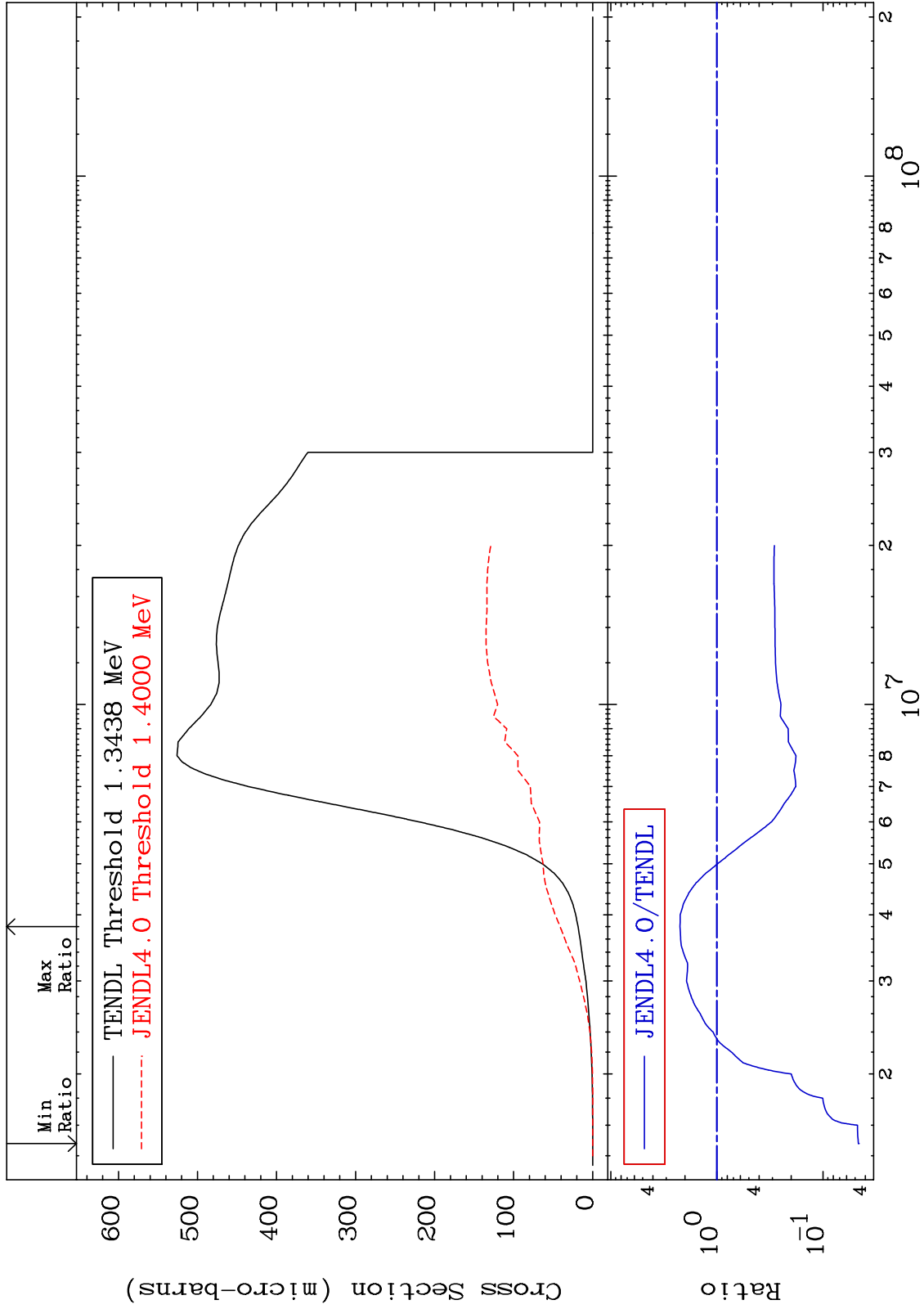
70-Yb-174
-18.91 To 9999. %



MAT 7043

MT= 56 (n,n') Level
Cross Section

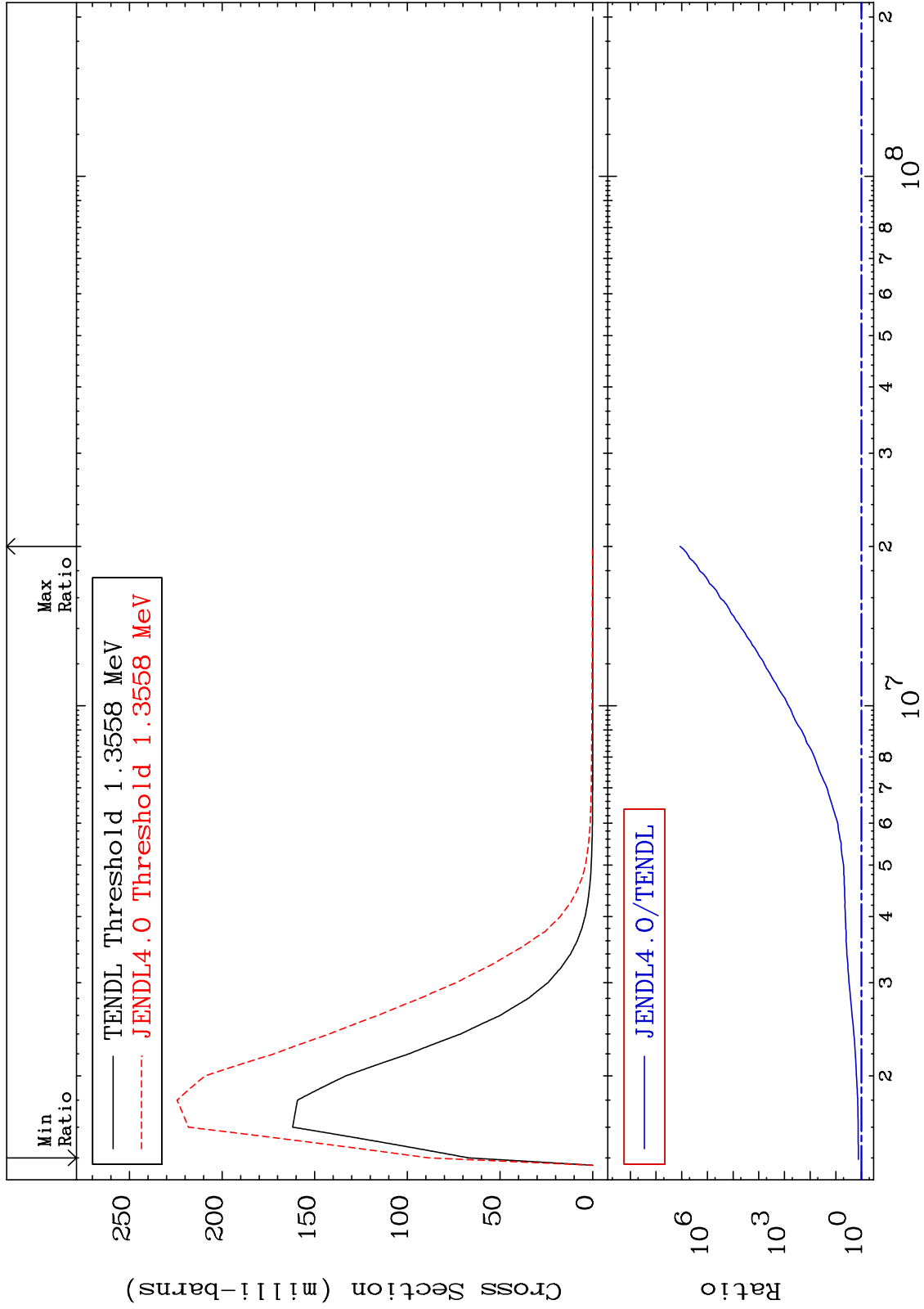
70-Yb-174
-95.35 To 122.5 %



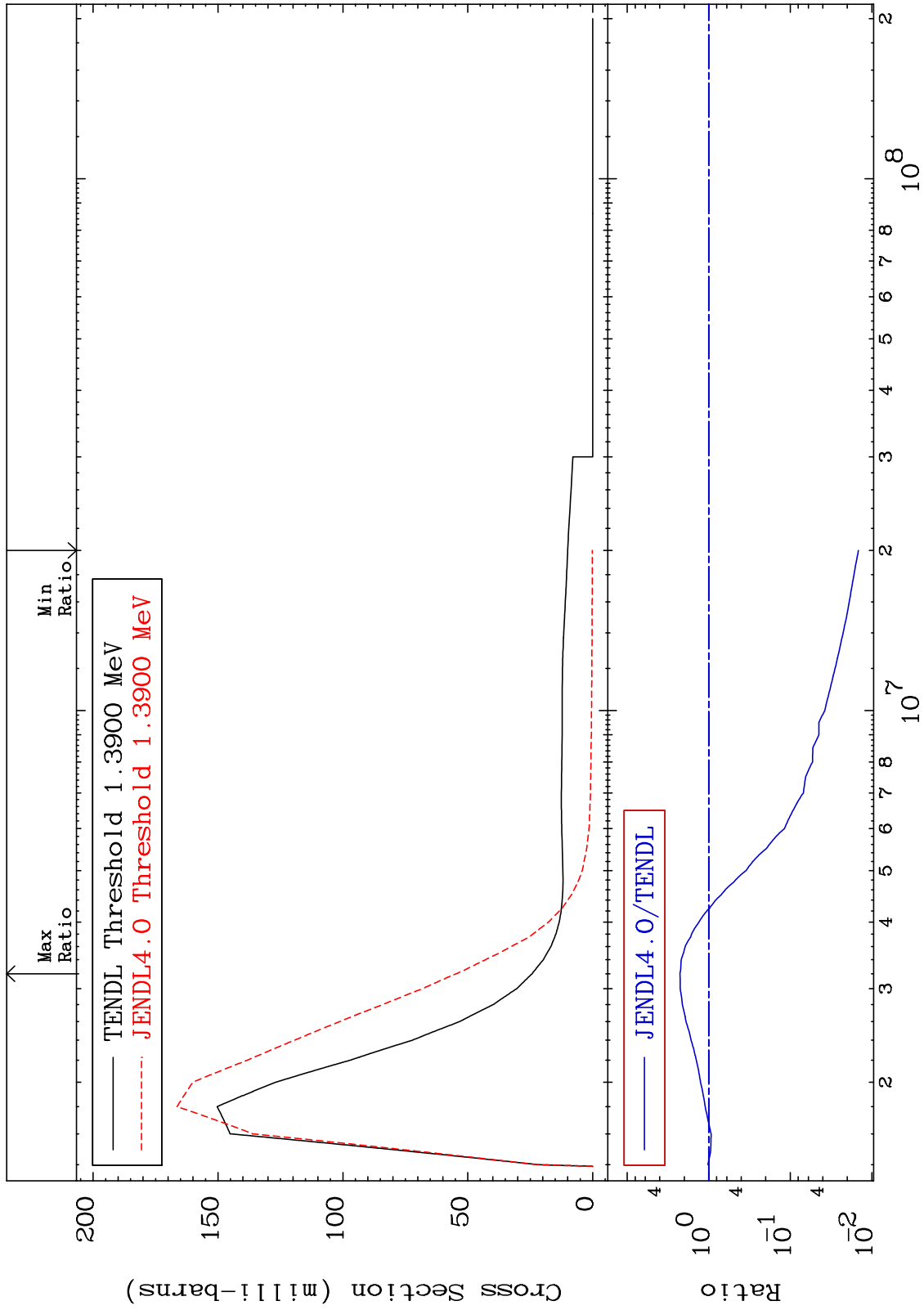
MAT 7043

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

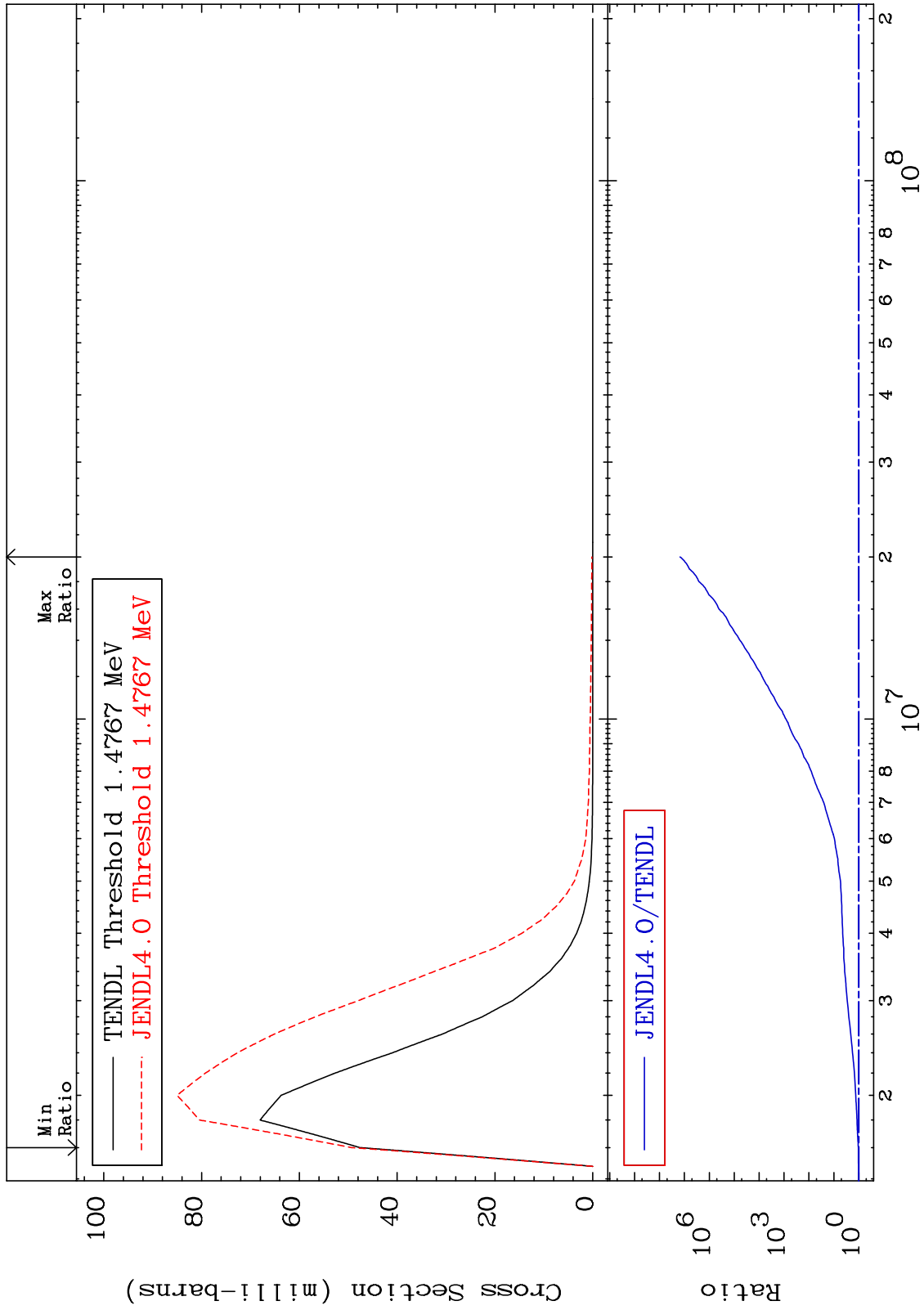
70-Yb-174
32.05 To 9999. %



MAT 7043 MT= 58 (n, n') Level
 Cross Section 70-Yb-174
 -98.54 To 125.3 %



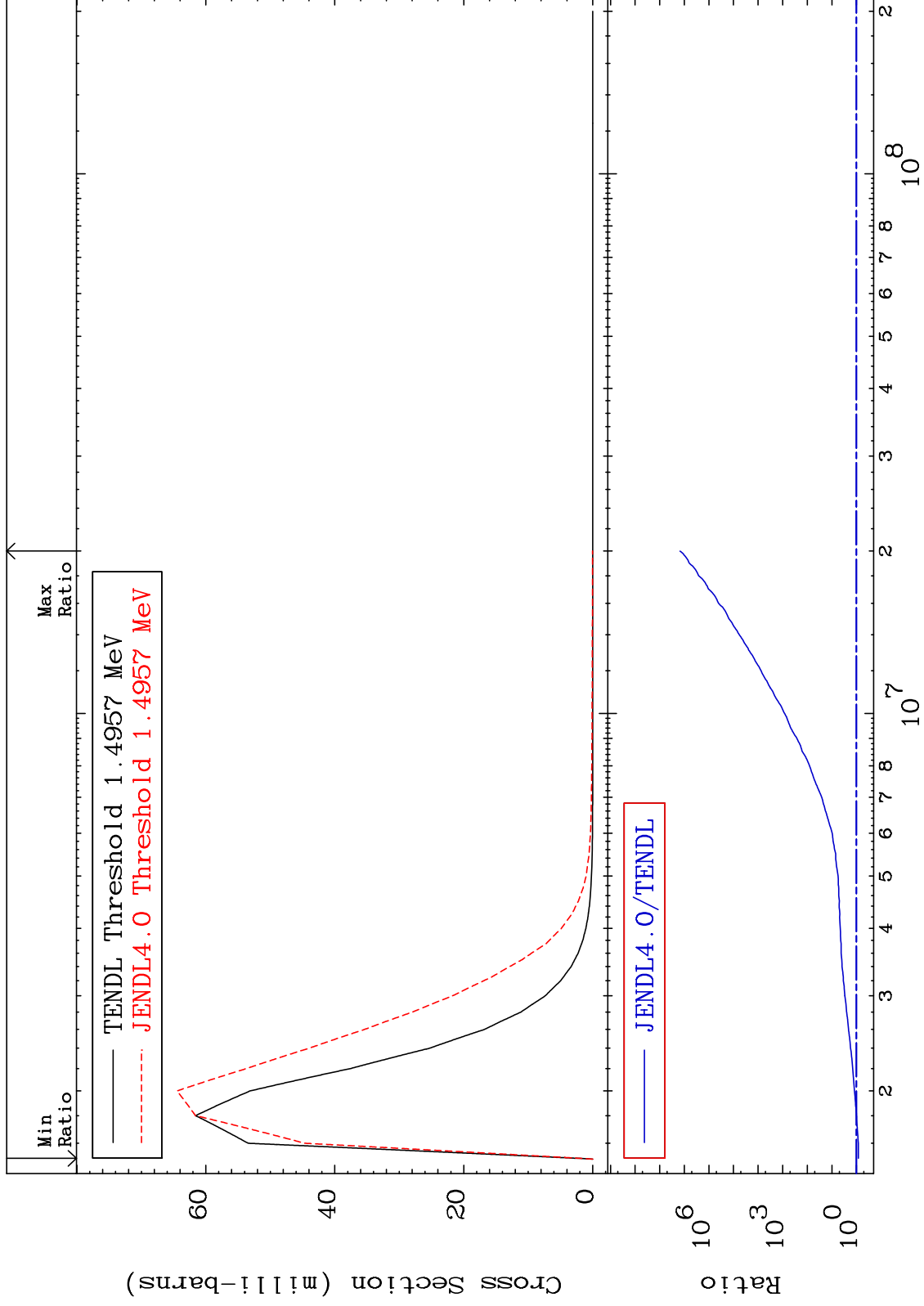
MAT 7043 MT= 59 (n,n') Level Cross Section 70-Yb-174 To 9999. %
 3.501



MAT 7043

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

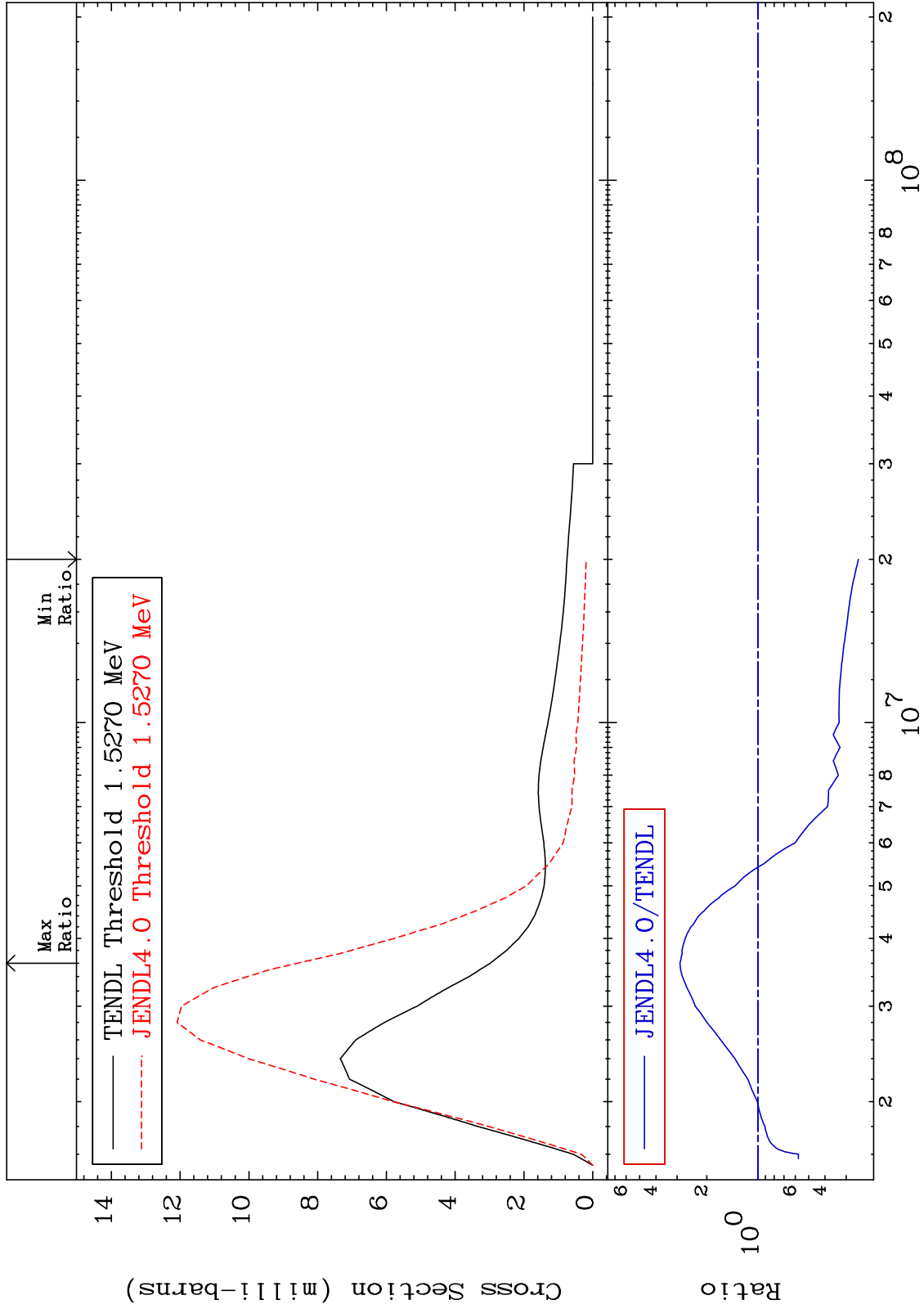
70-Yb-174
-16.45 To 9999. %



MAT 7043

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

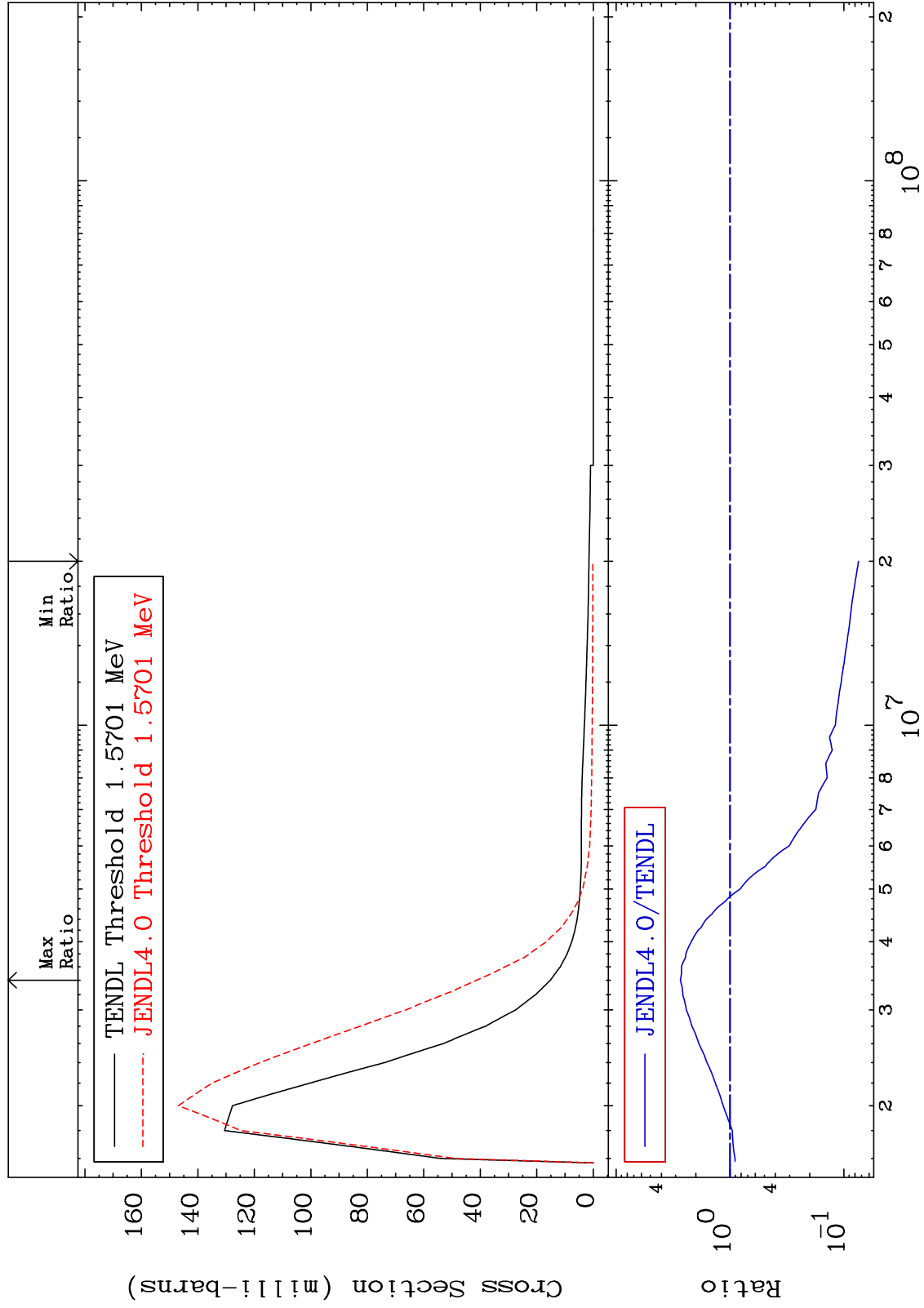
70-Yb-174
-74.59 To 188.3 %



MAT 7043

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

70-Yb-174
-92.55 To 172.5 %



20

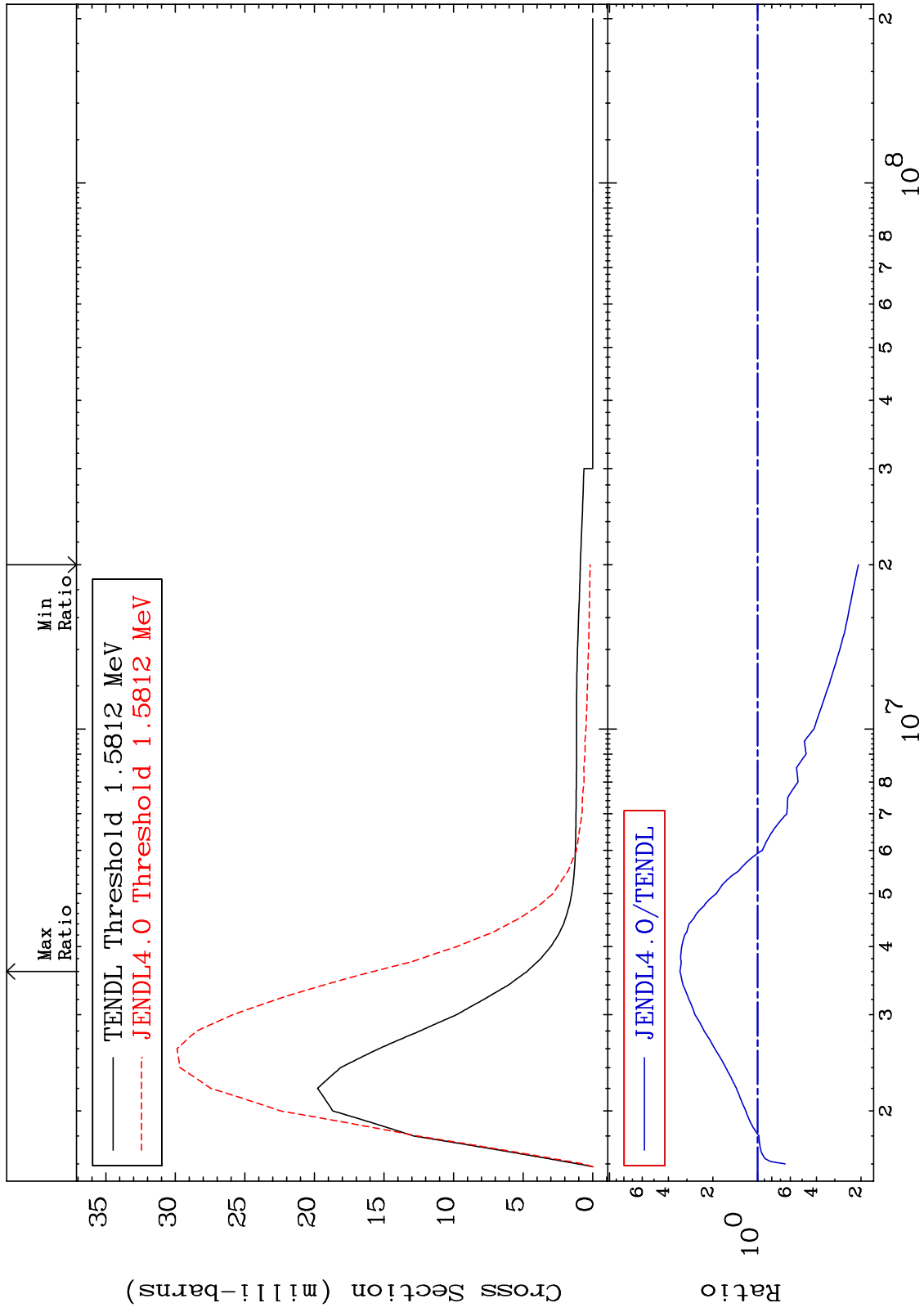
Incident Energy (eV)

70-Yb-174

MAT 7043

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

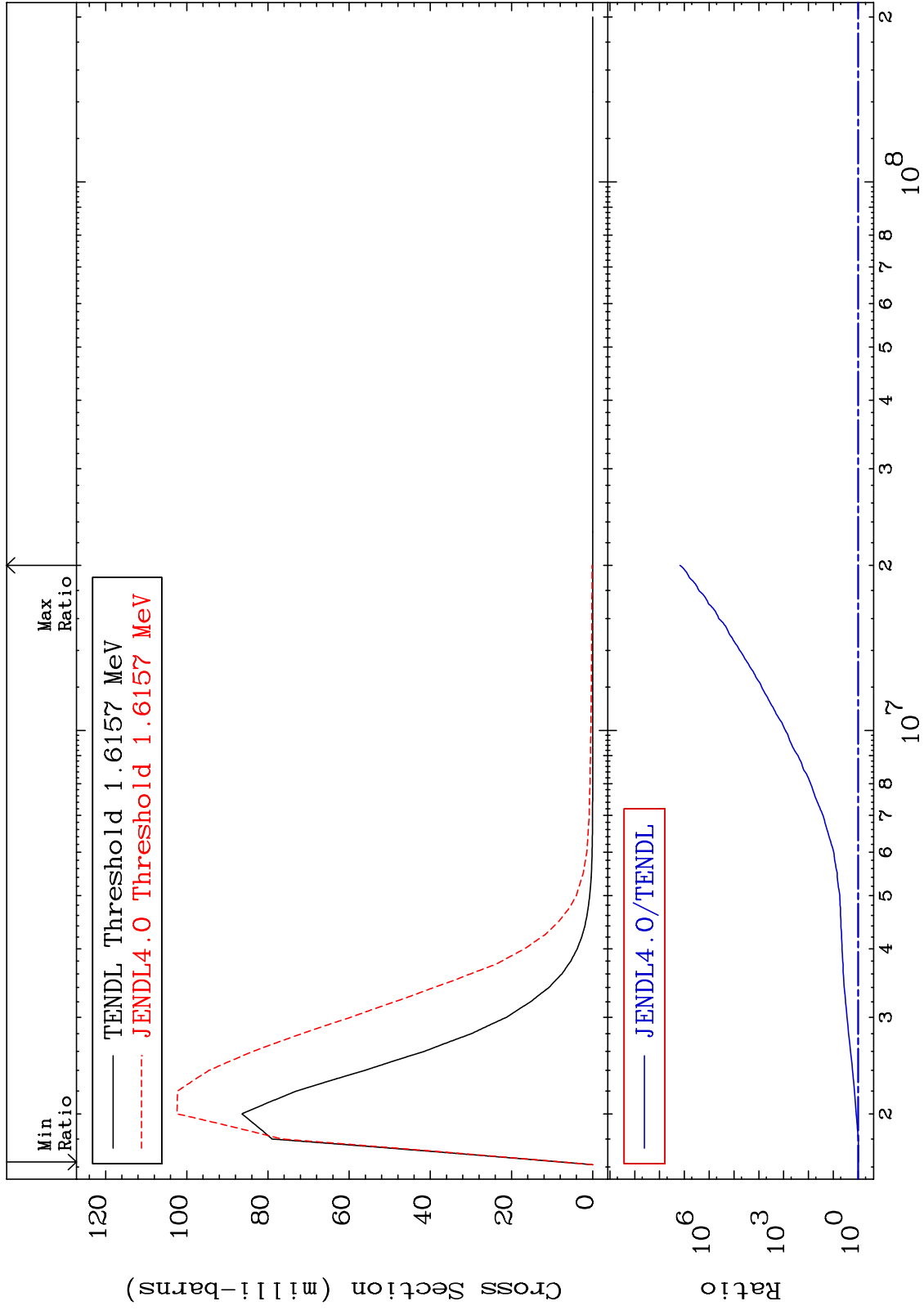
70-Yb-174
-79.19 To 233.8 %



MAT 7043

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

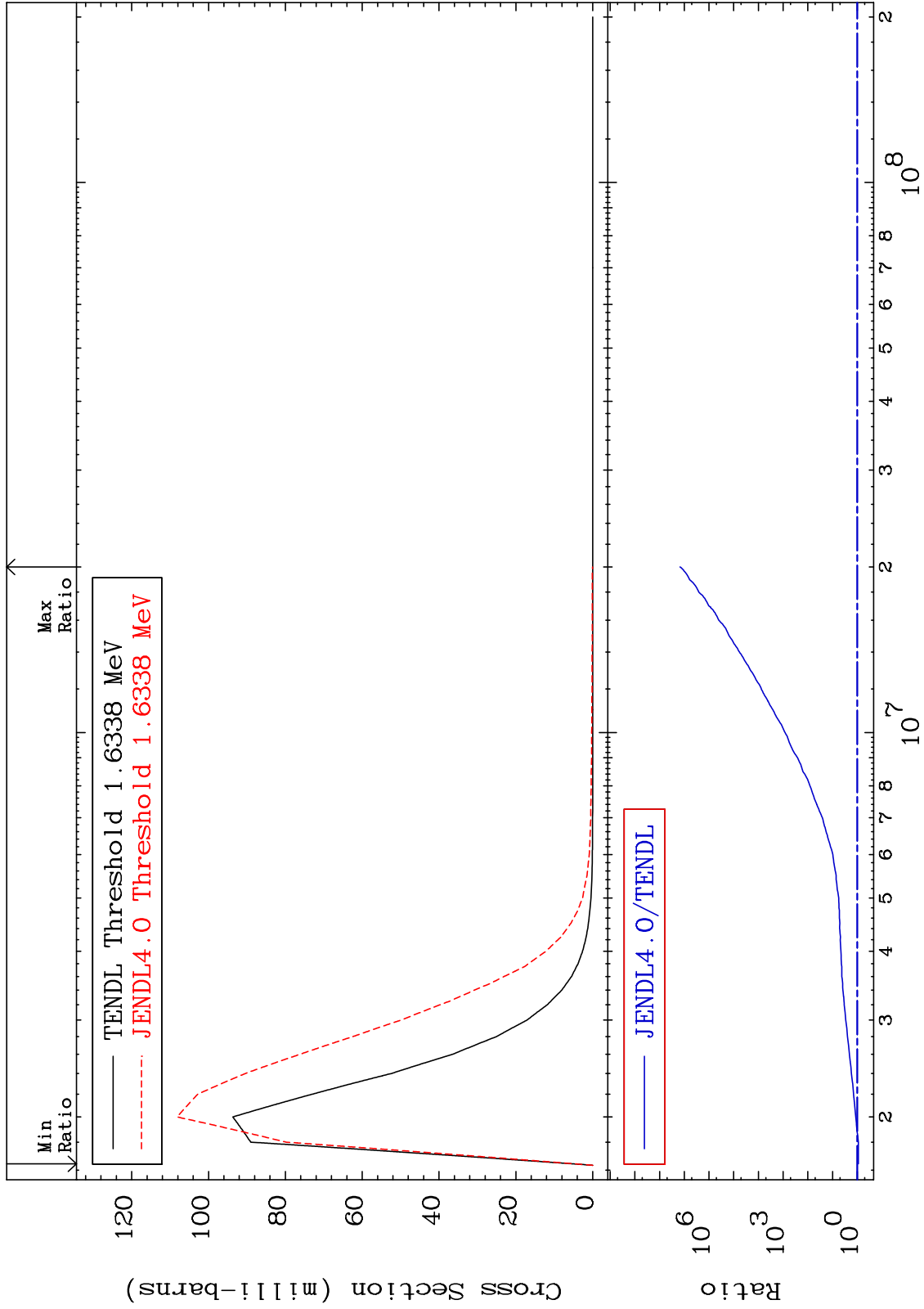
70-Yb-174
-3.062 To 9999. %



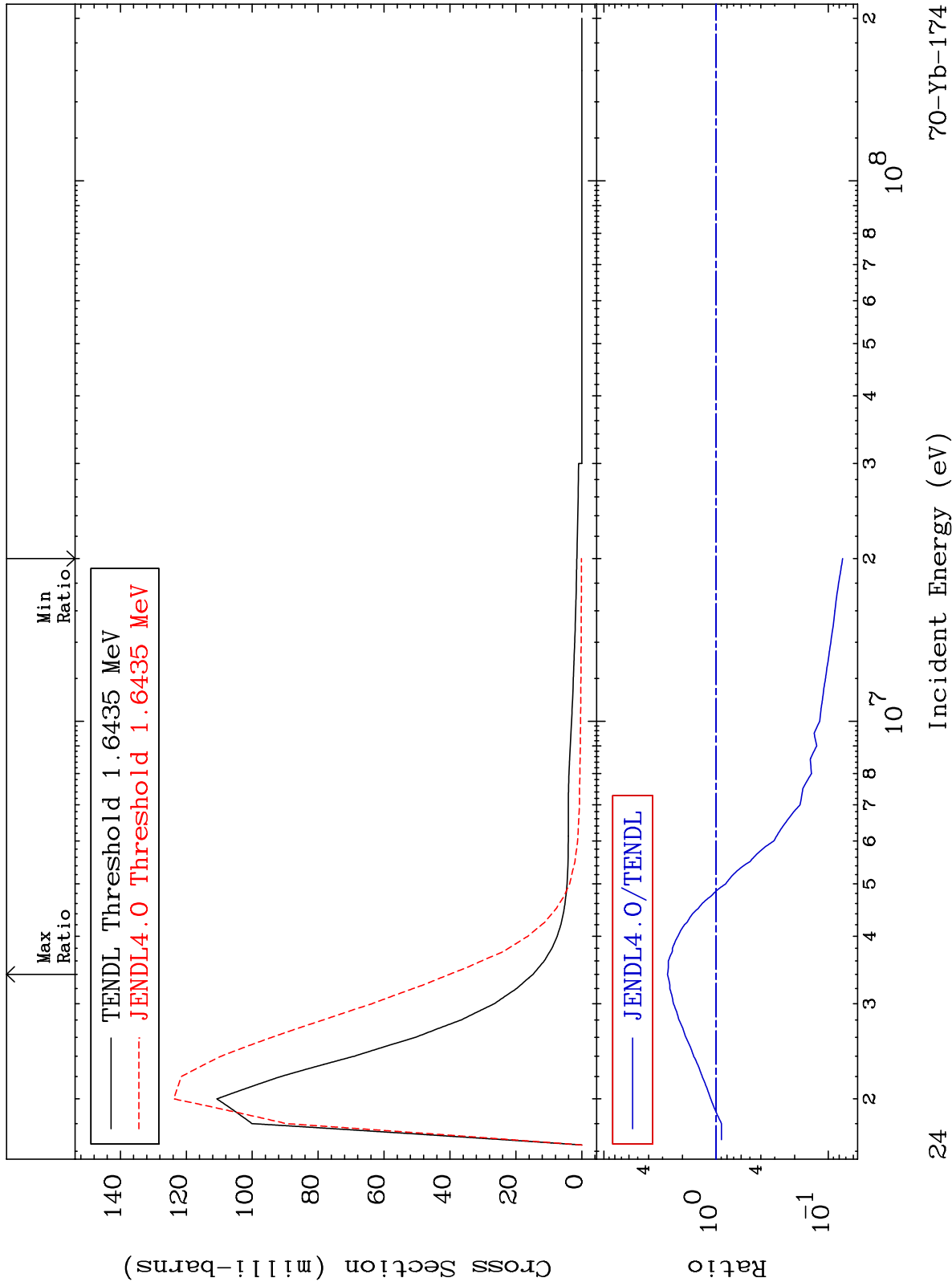
MAT 7043

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

70-Yb-174
-10.34 To 9999. %



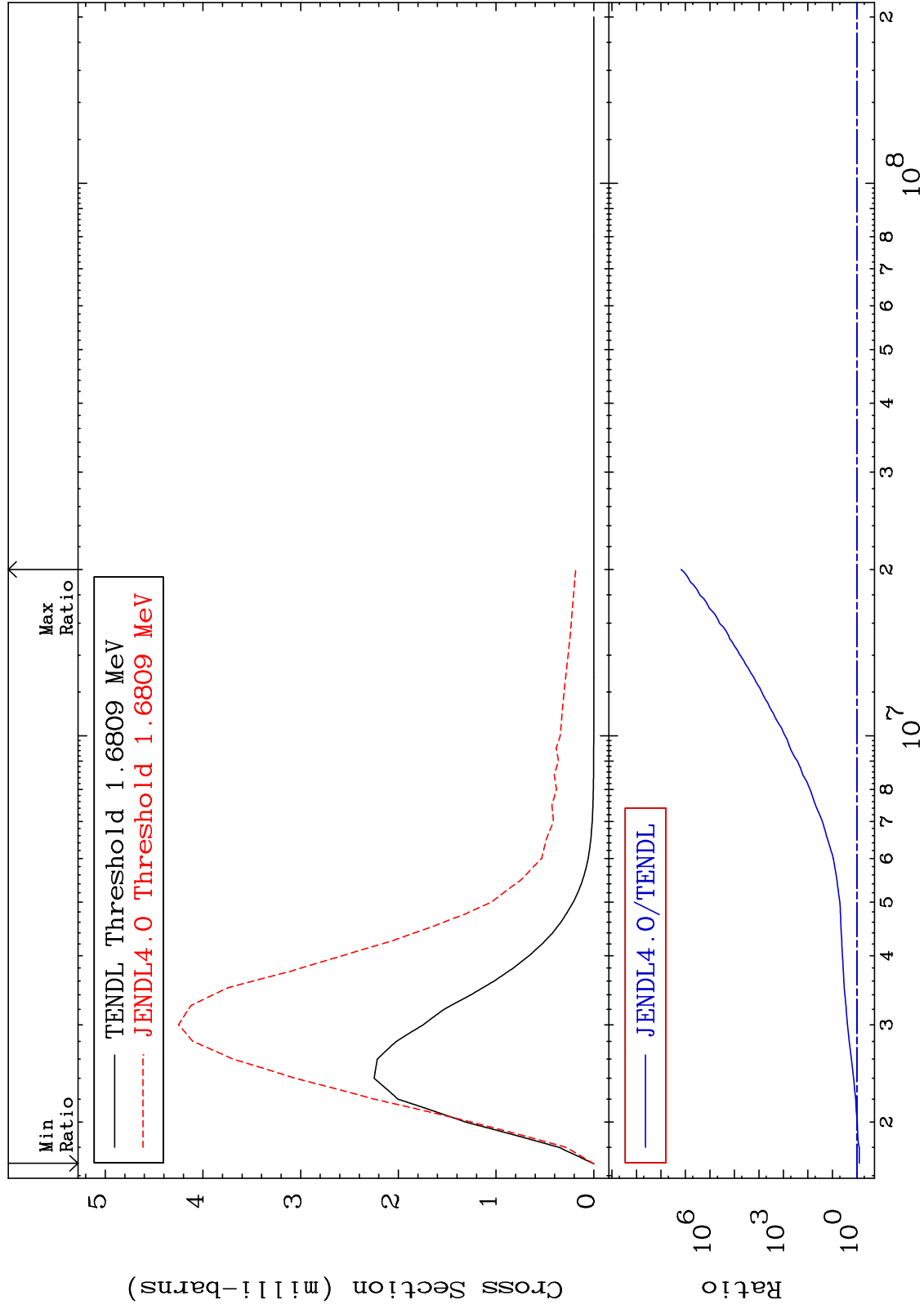
MAT 7043 MT= 66 (n,n') Level
 Cross Section 70-Yb-174
 -92.54 To 171.2 %



MAT 7043

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

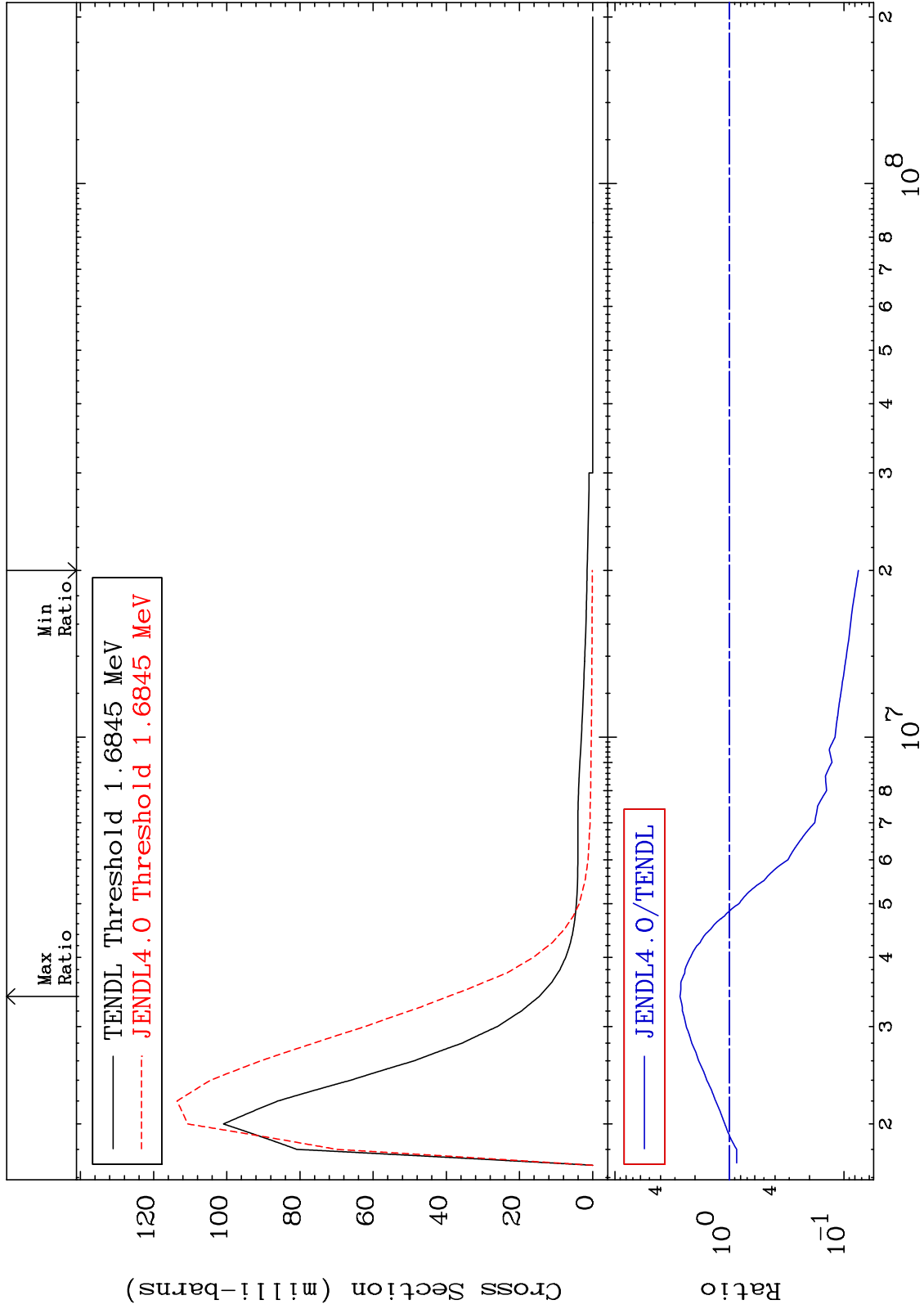
70-Yb-174
-20.42 To 9999. %



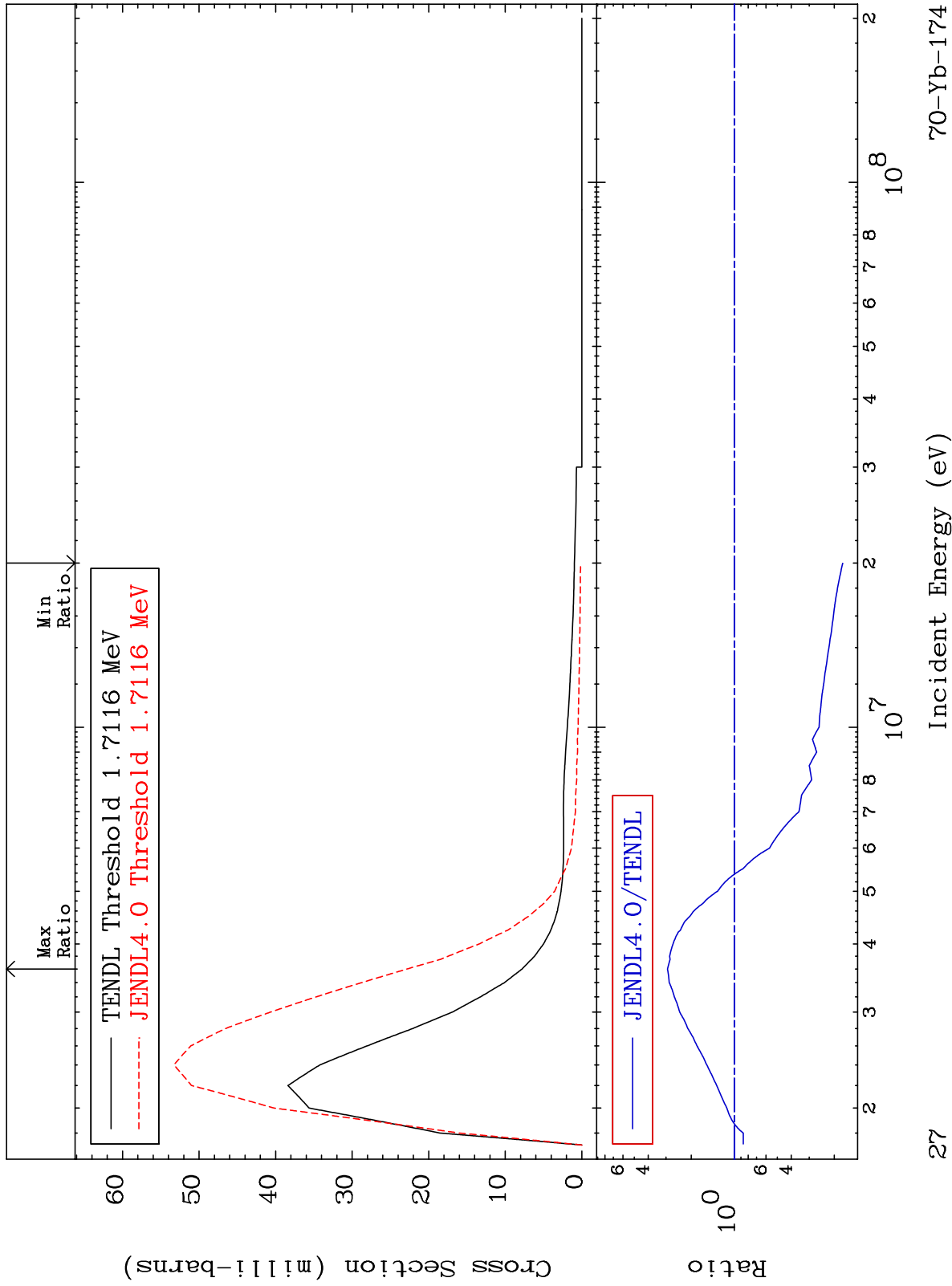
MAT 7043

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

70-Yb-174
-92.53 To 170.5 %



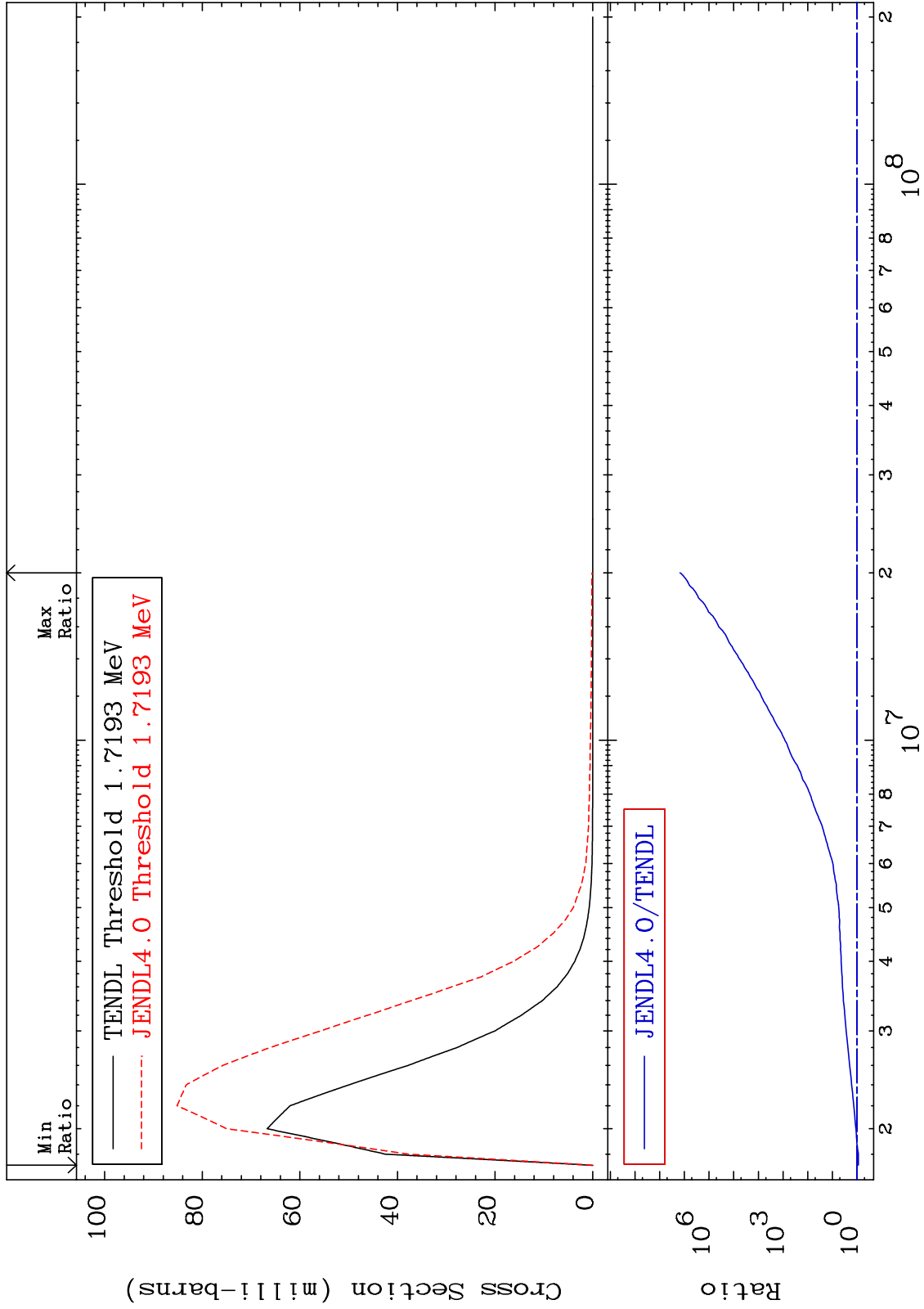
MAT 7043 MT= 69 (n,n') Level
Cross Section 70-Yb-174
-82.51 To 192.7 %



MAT 7043

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

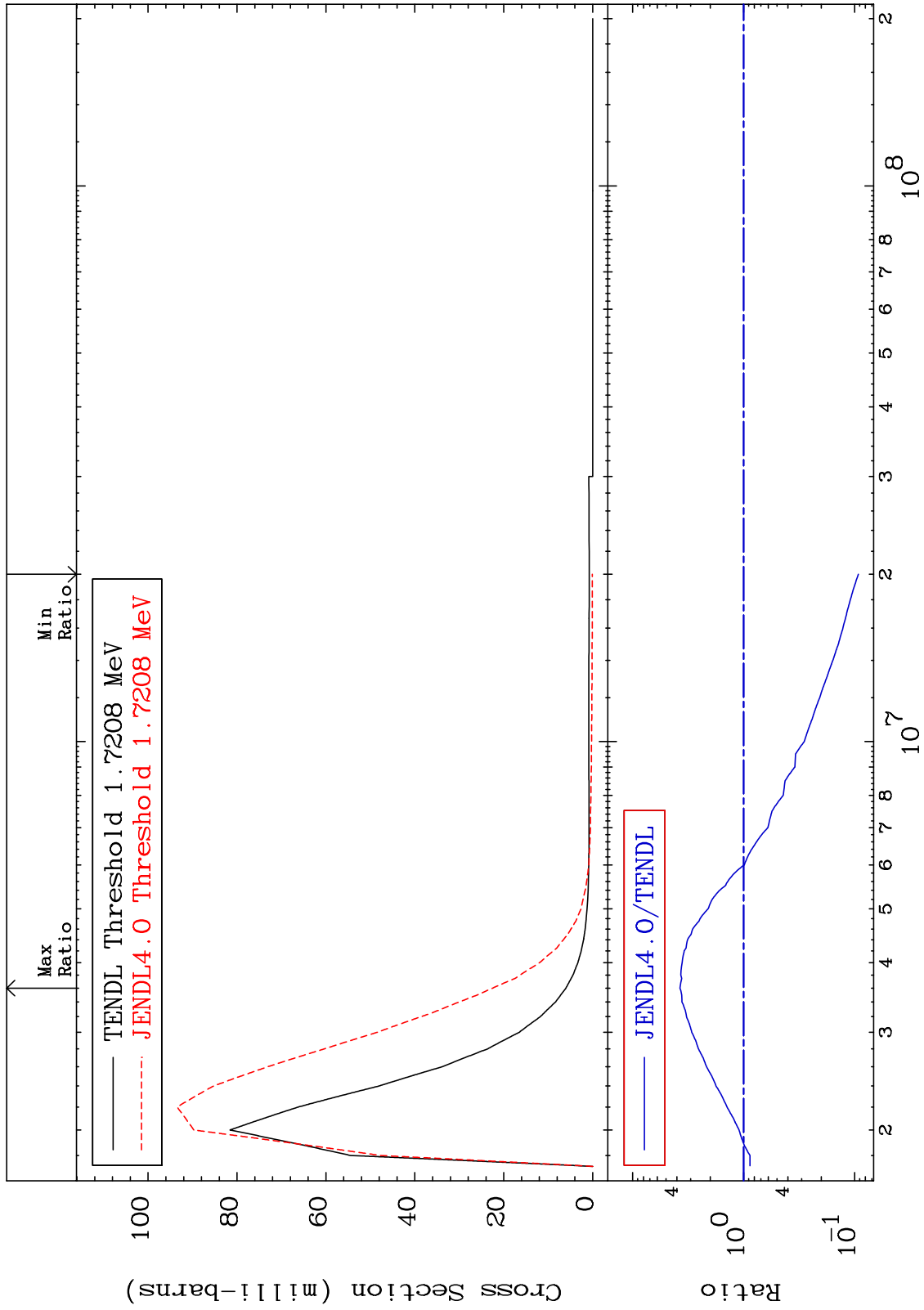
70-Yb-174
-11.33 To 9999. %



MAT 7043

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

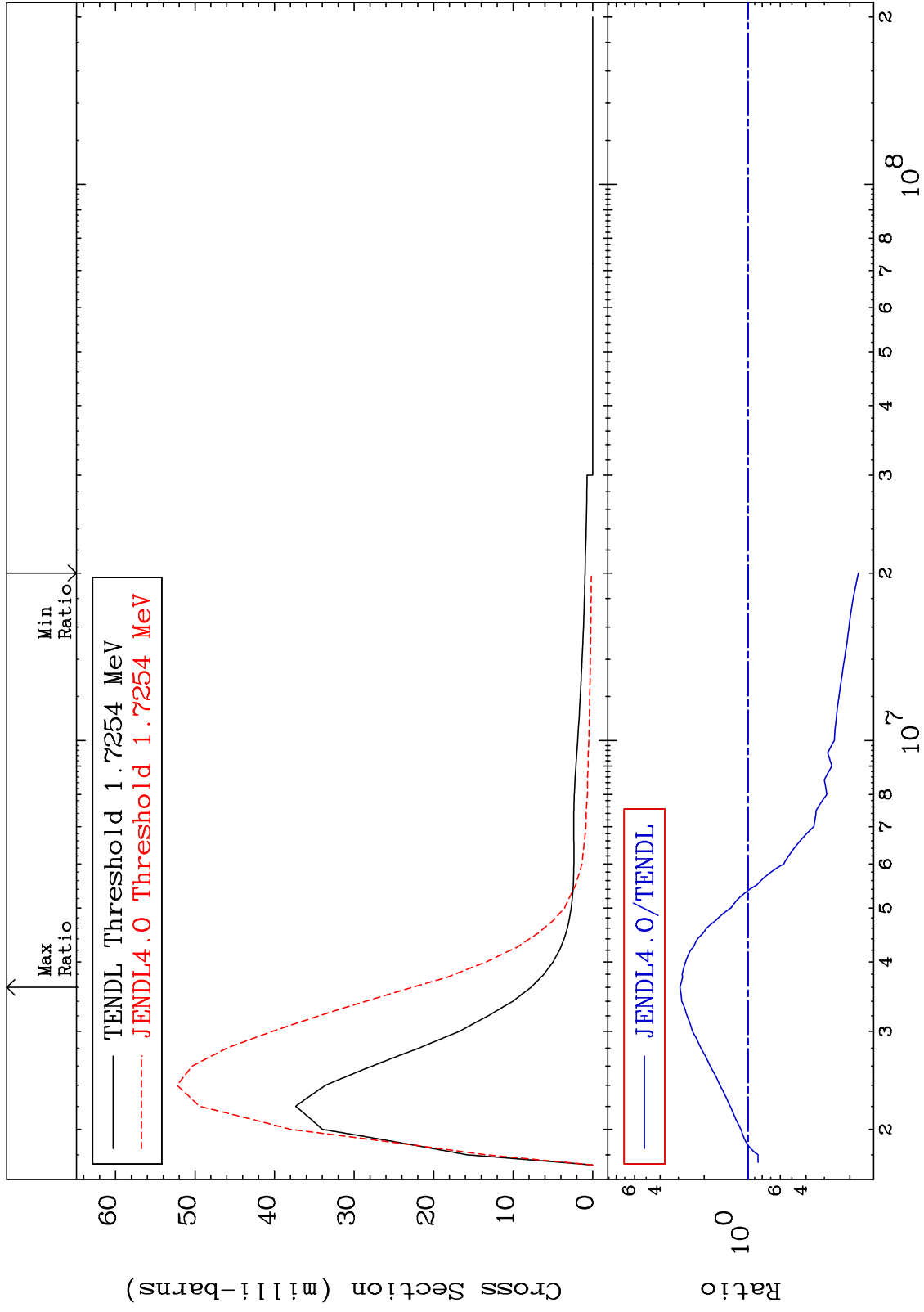
70-Yb-174
-90.75 To 274.4 %



MAT 7043

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

70-Yb-174
-82.51 To 192.5 %

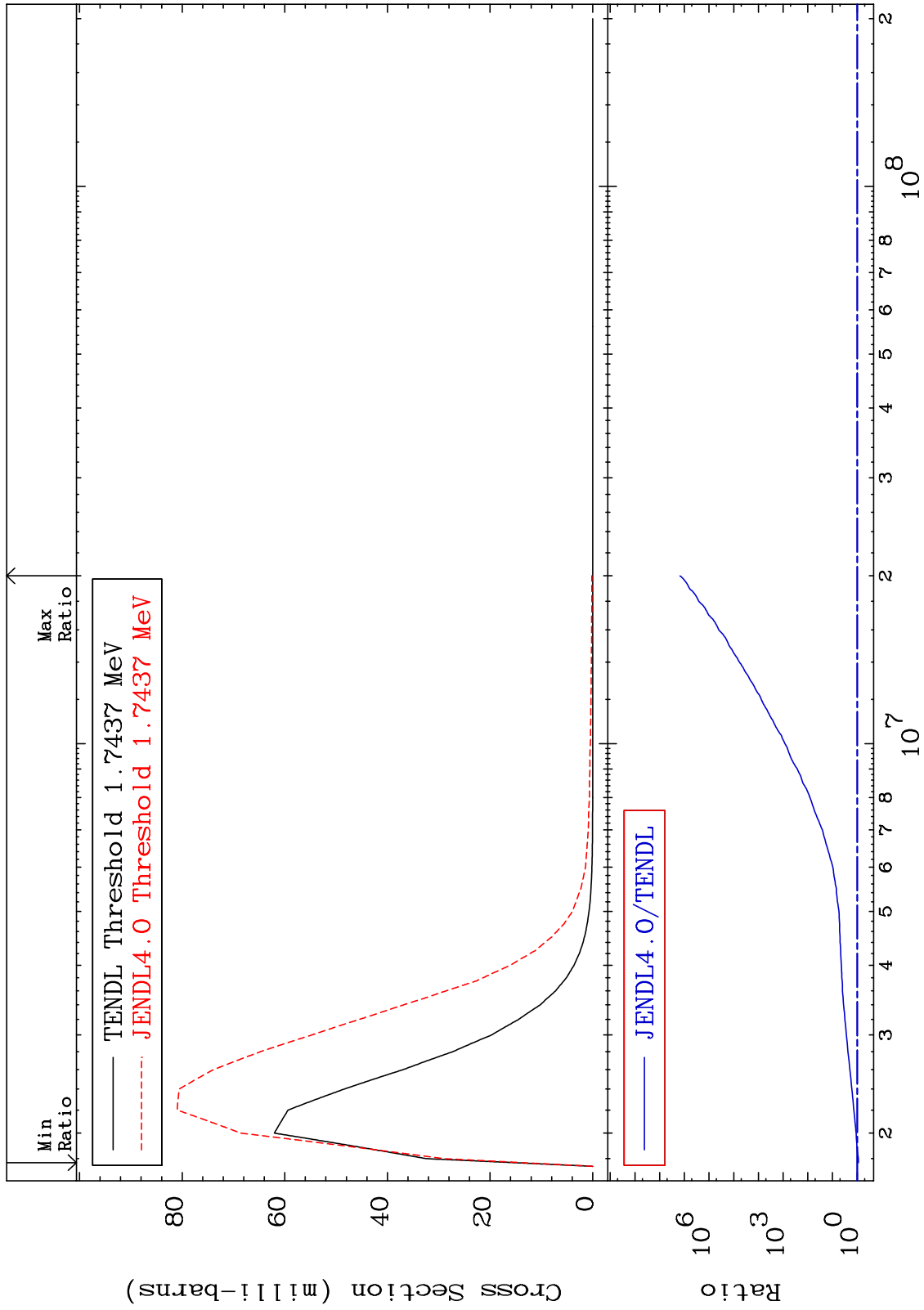


30

Incident Energy (eV)

70-Yb-174

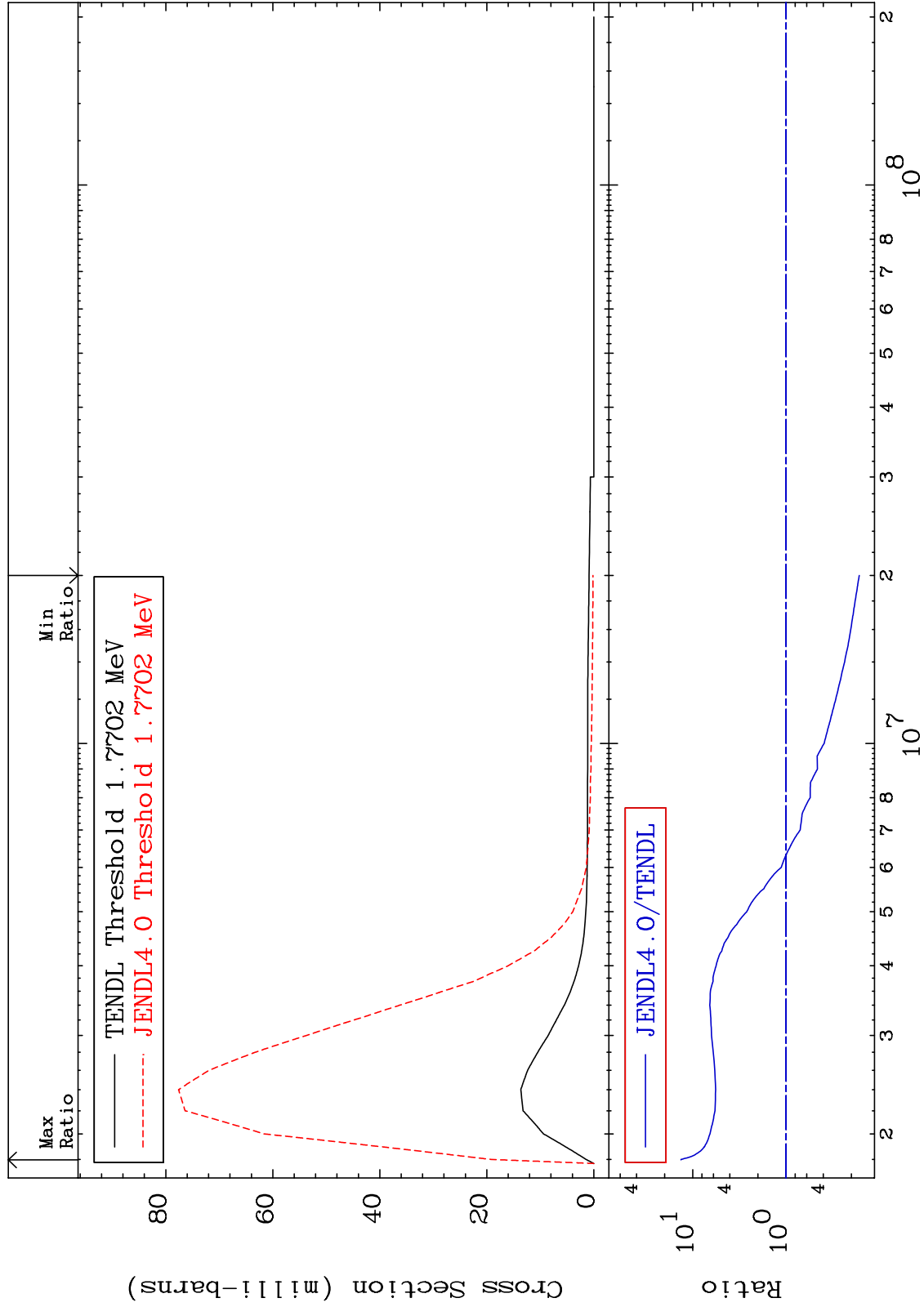
MAT 7043 MT= 73 (n,n') Level Cross Section 70-Yb-174
 -10.55 To 9999. %



MAT 7043

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

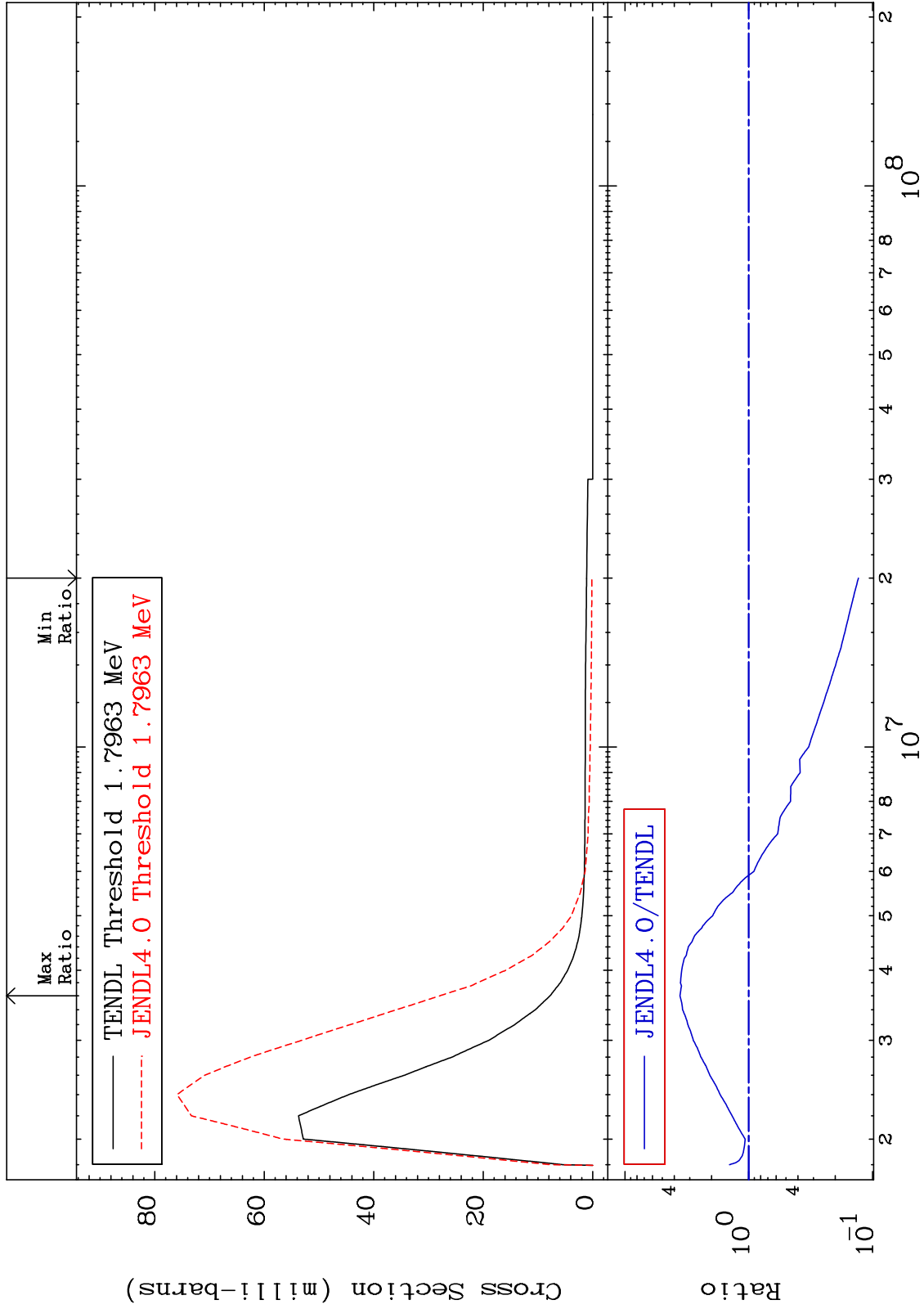
70-Yb-174
-83.55 To 1235. %



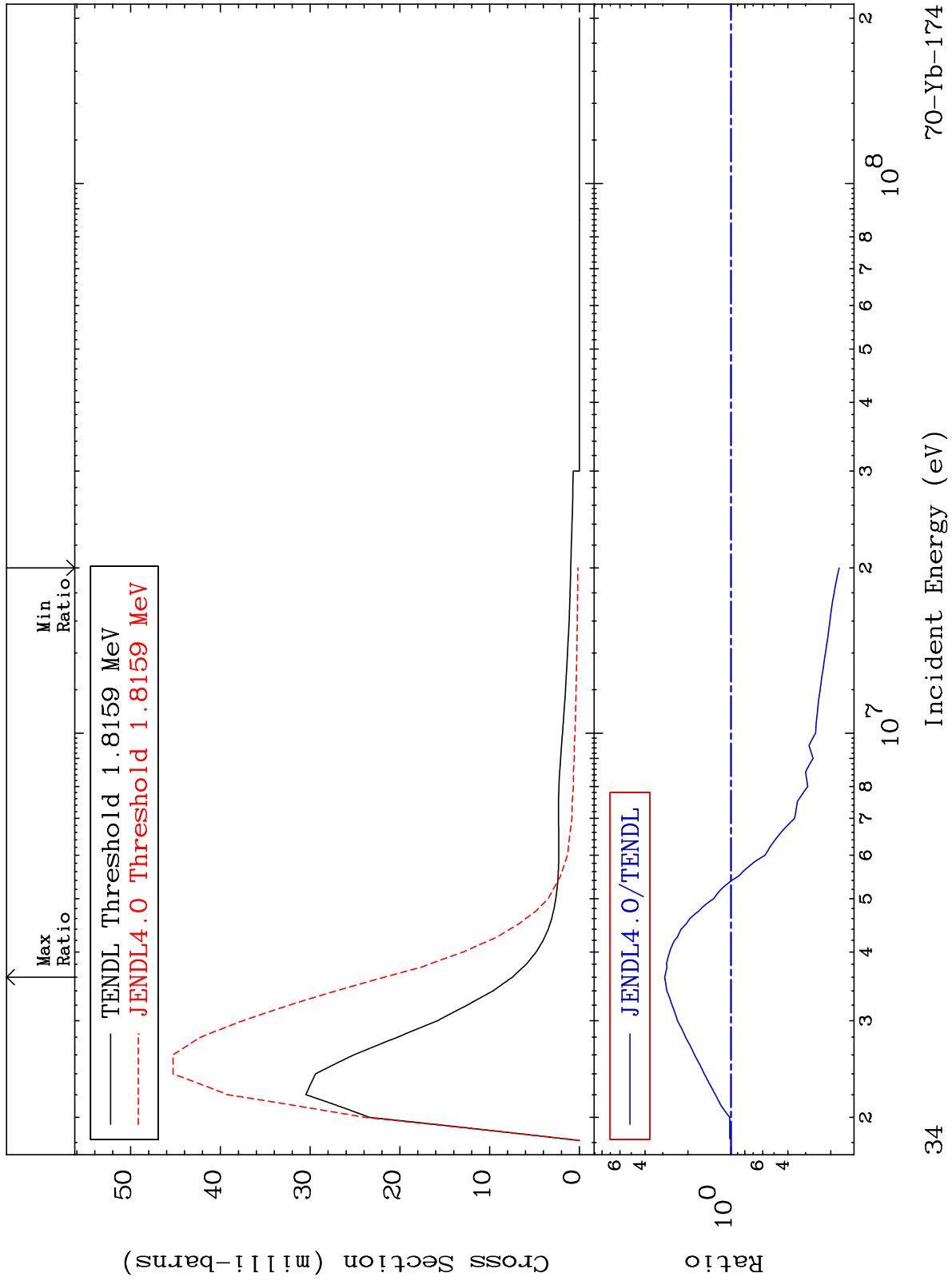
MAT 7043

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

70-Yb-174
-86.99 To 259.1 %



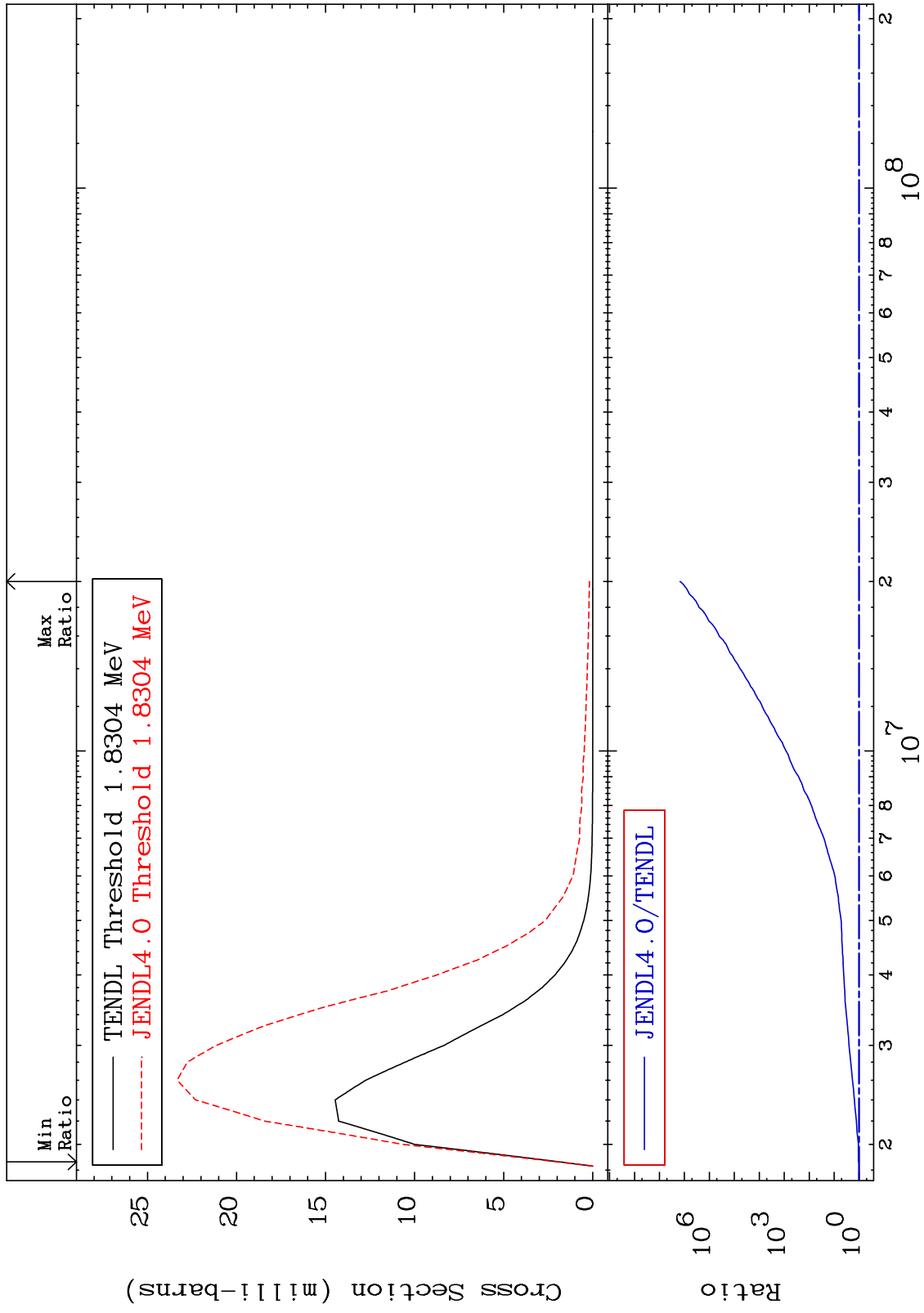
MAT 7043 MT= 76 (n,n') Level
Cross Section 70-Yb-174
-82.50 To 191.0 %



70-Yb-174

Incident Energy (eV)

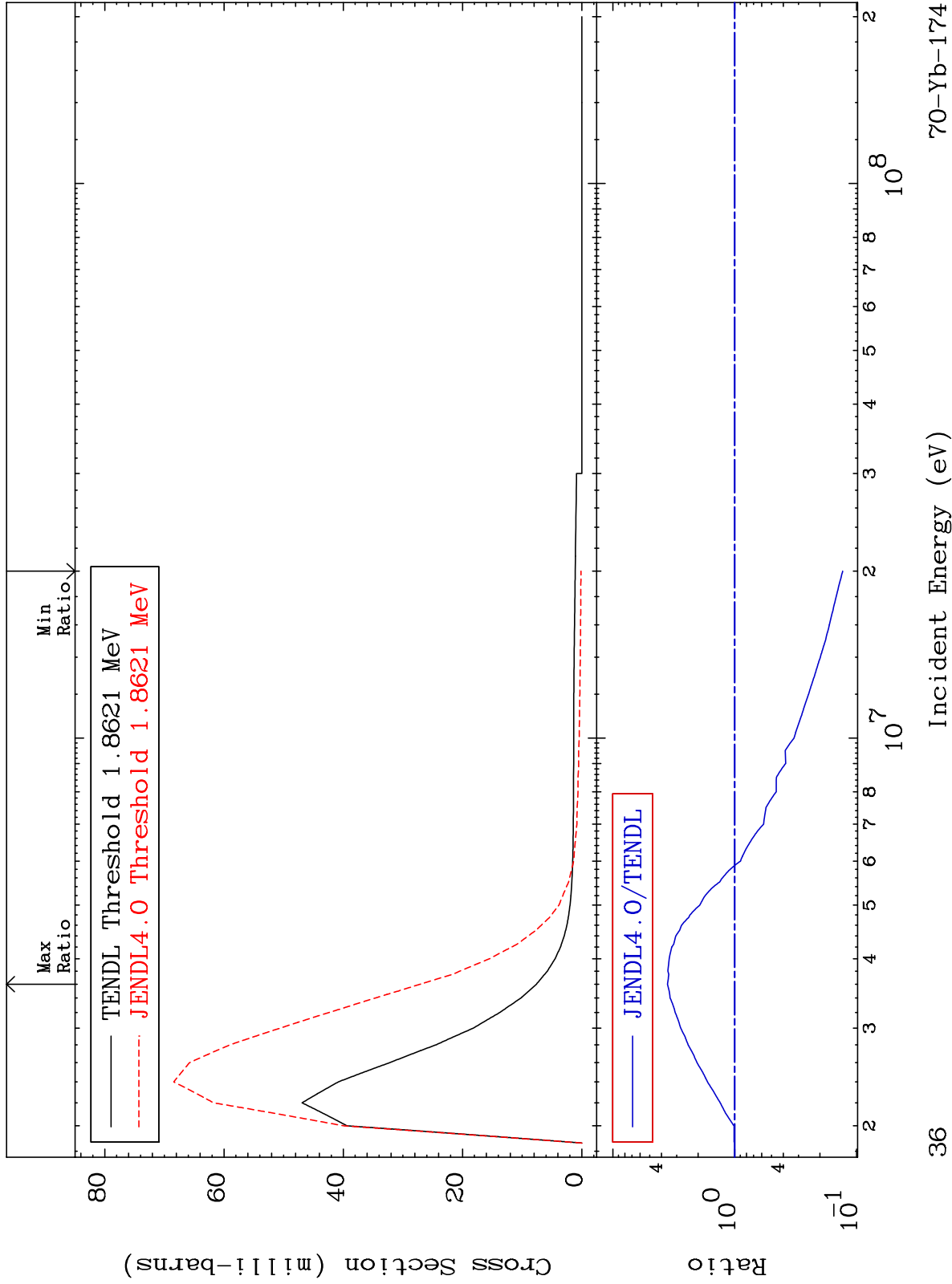
MAT 7043 MT= 77 (n,n') Level Cross Section 70-Yb-174
 6.484 To 9999. %



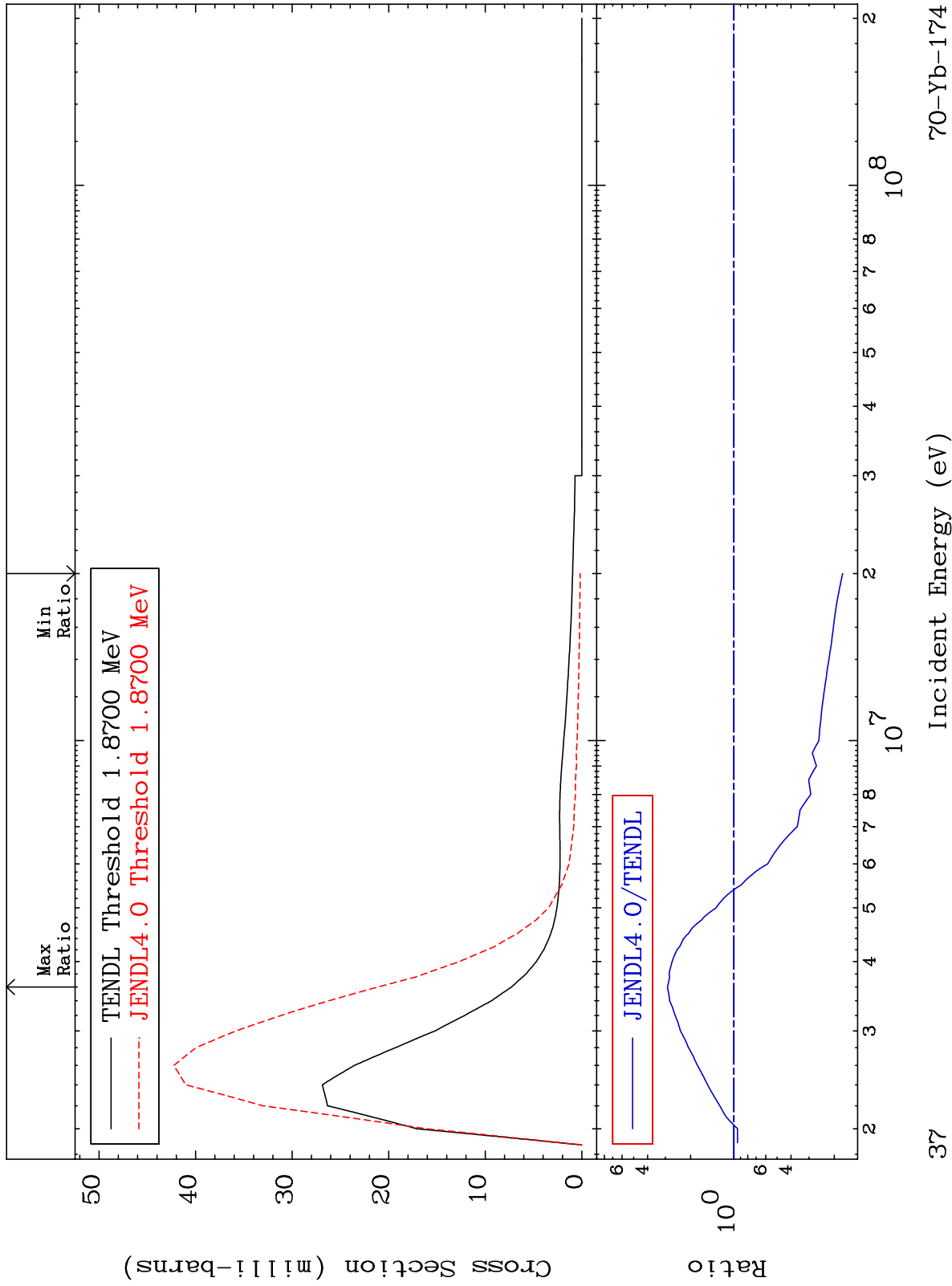
MAT 7043

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

70-Yb-174
-86.99 To 256.4 %



MAT 7043 MT= 79 (n,n') Level
 Cross Section 70-Yb-174
 -82.50 To 189.9 %



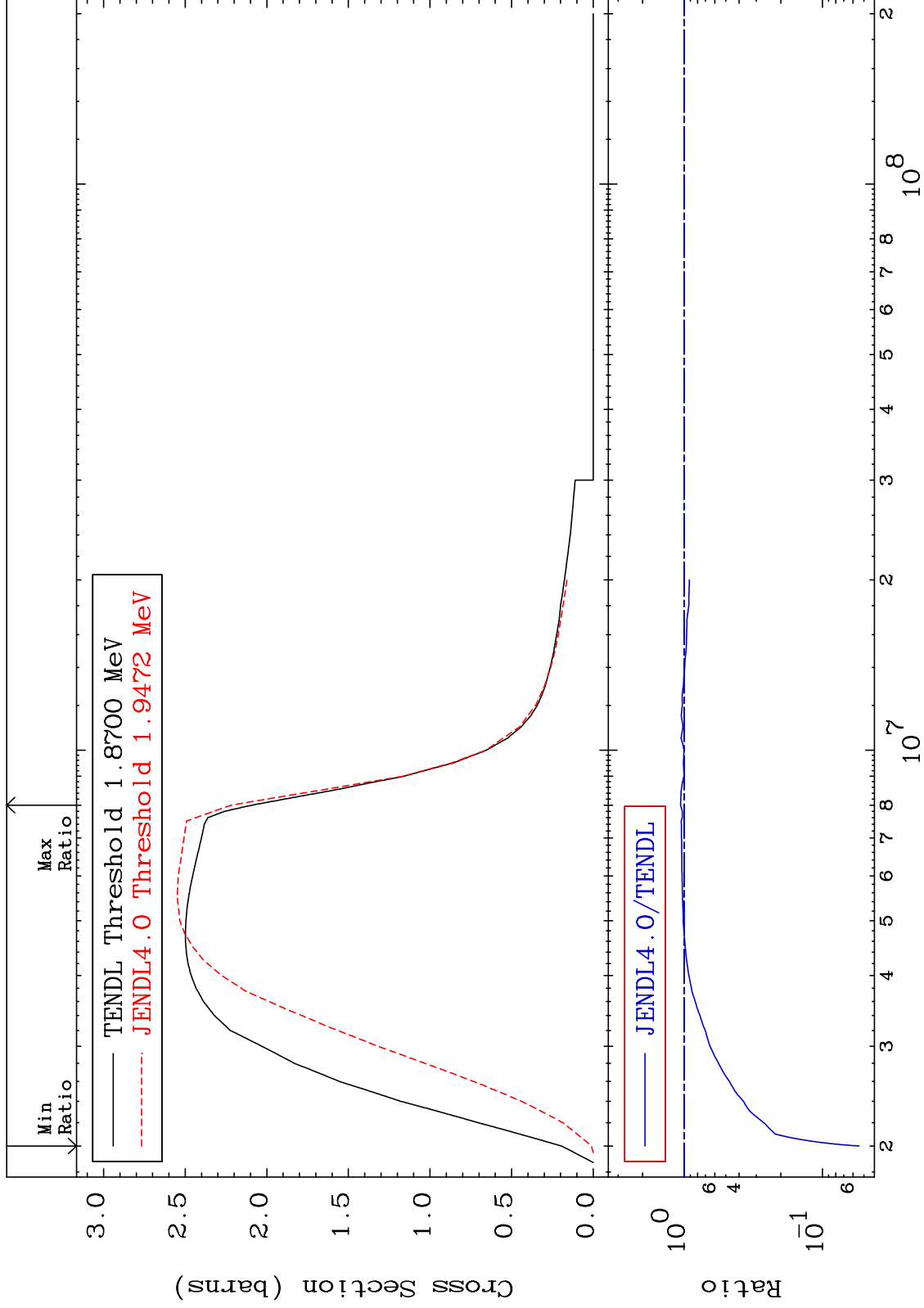
70-Yb-174

Incident Energy (eV)

MAT 7043

(n, n') Continuum
Cross Section

70-Yb-174
-94.59 To 6.023 %



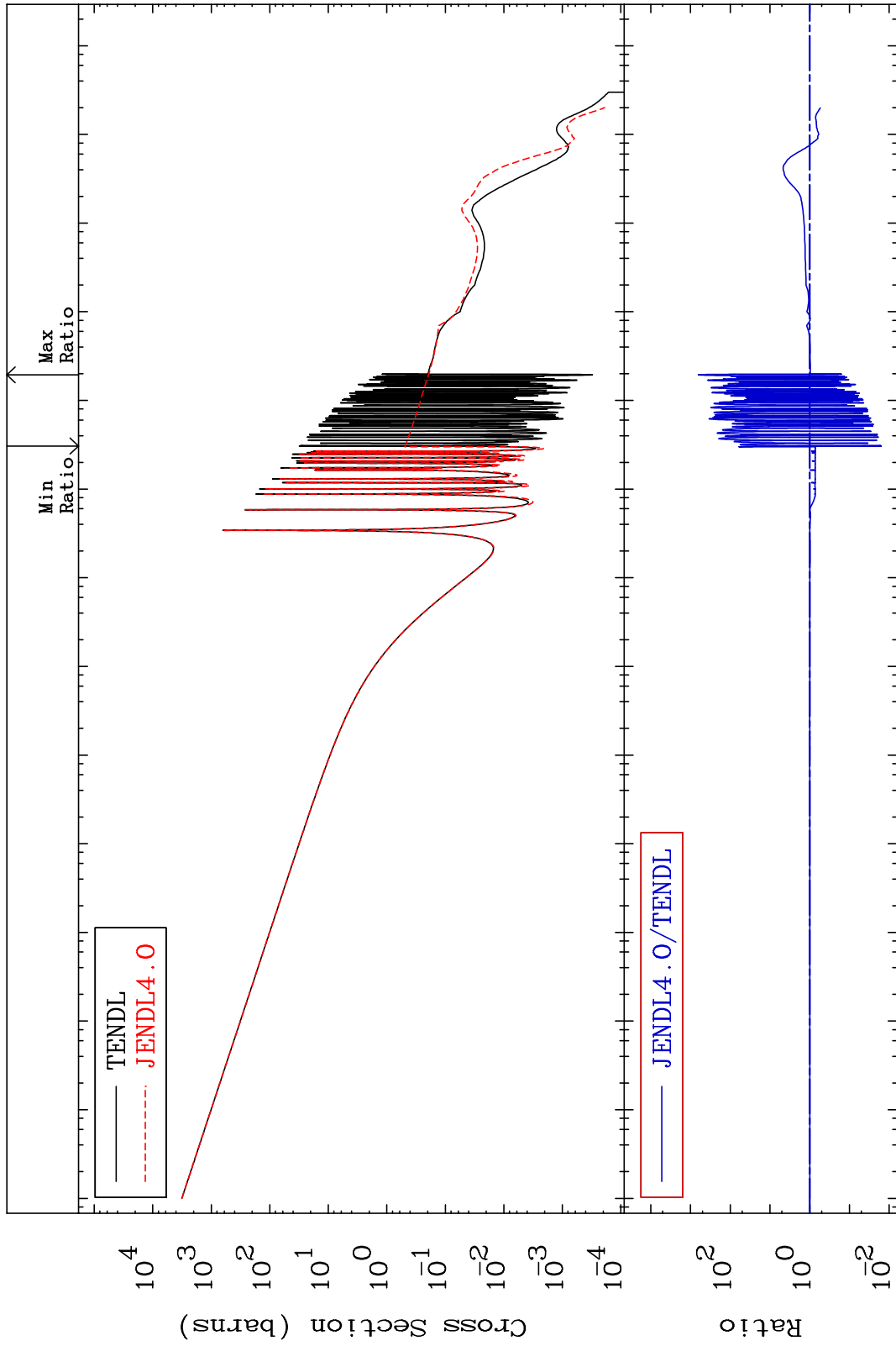
MAT 7043

(n, γ)

70-Yb-174

Cross Section

-98.44 To 9999. %



Incident Energy (eV)

70-Yb-174

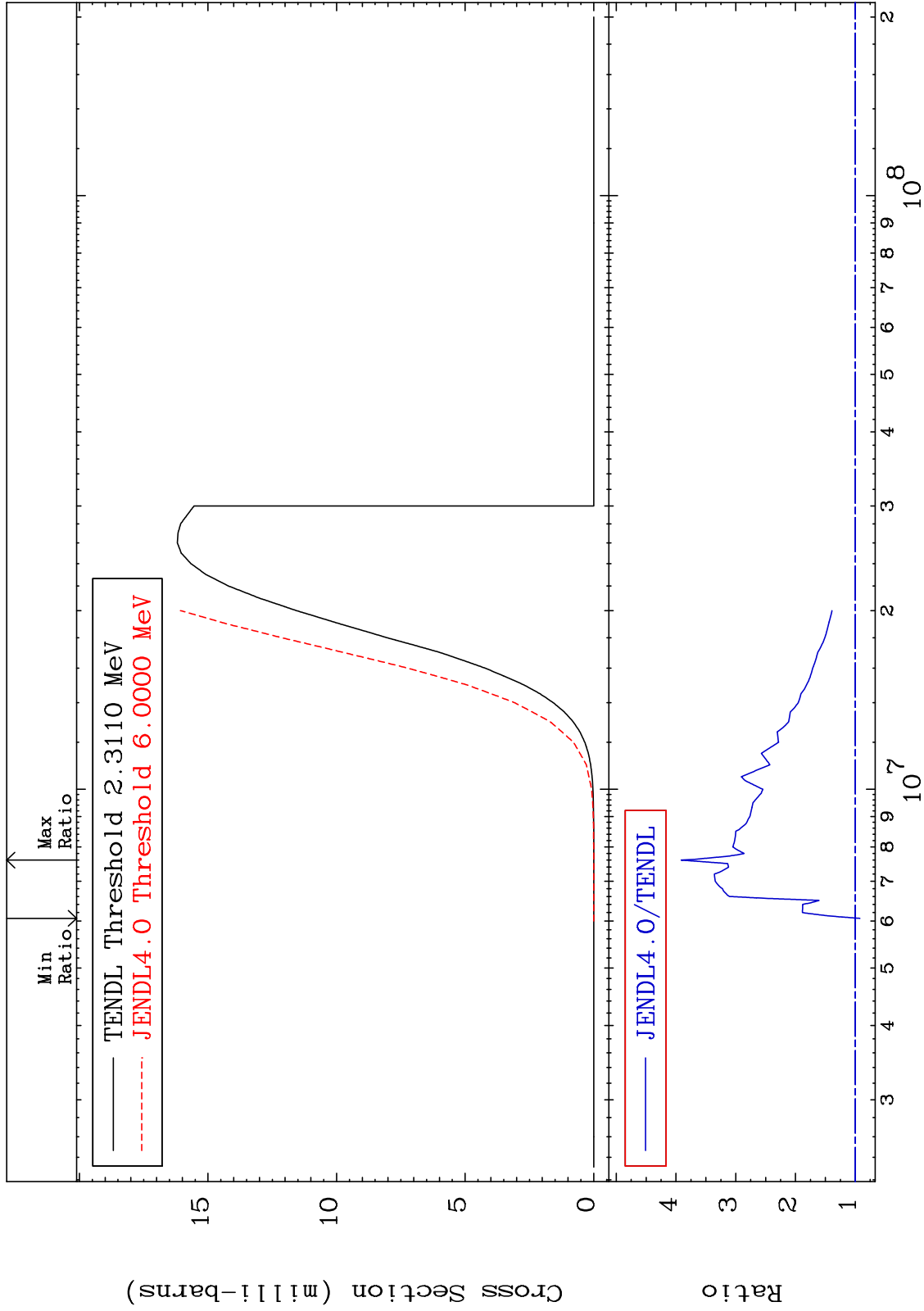
MAT 7043

(n,p)

70-Yb-174

Cross Section

-7.772 To 291.3 %



40

Incident Energy (eV)

70-Yb-174

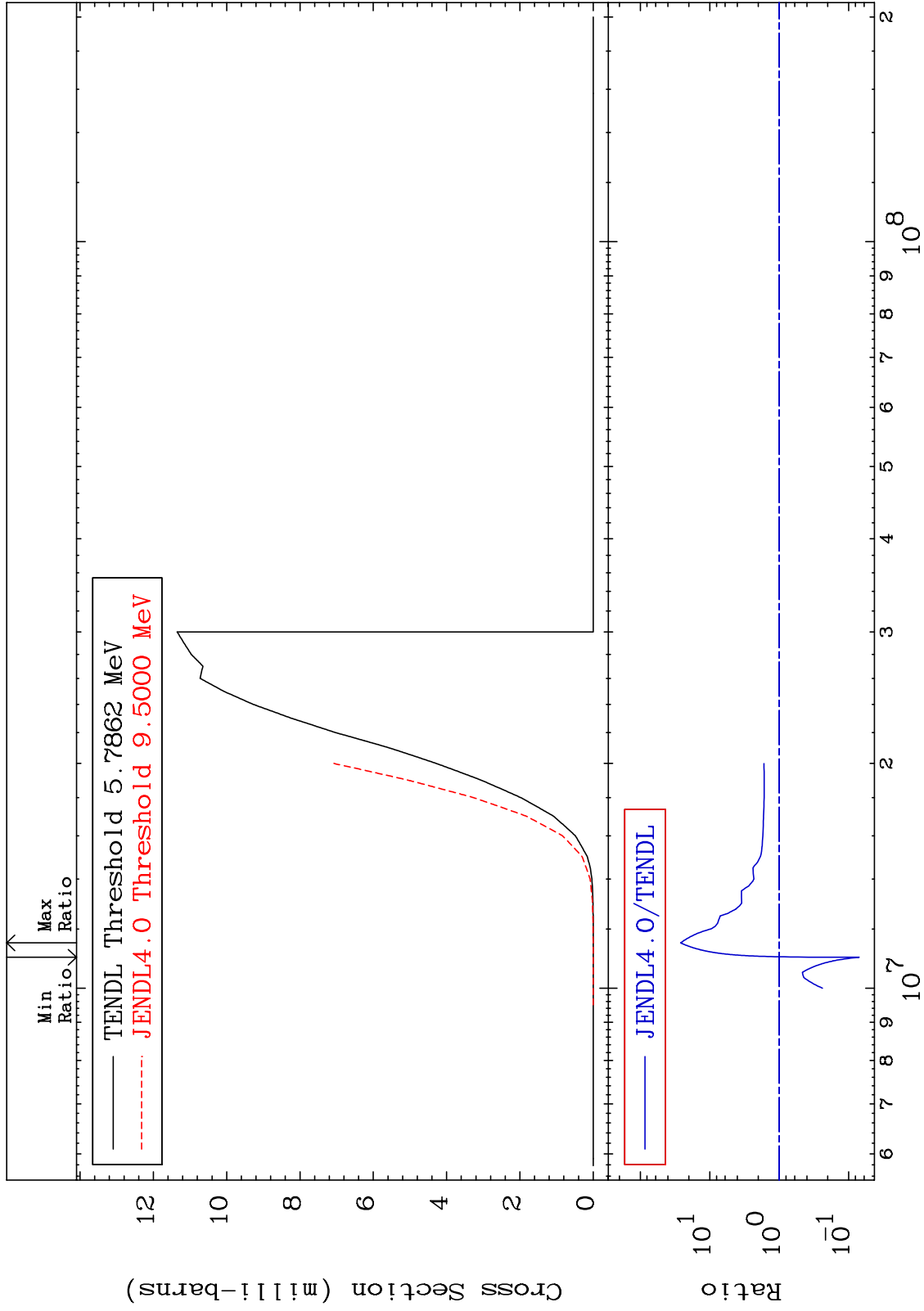
MAT 7043

(n, d)

70-Yb-174

Cross Section

-92.94 To 2527. %



41

Incident Energy (eV)

70-Yb-174

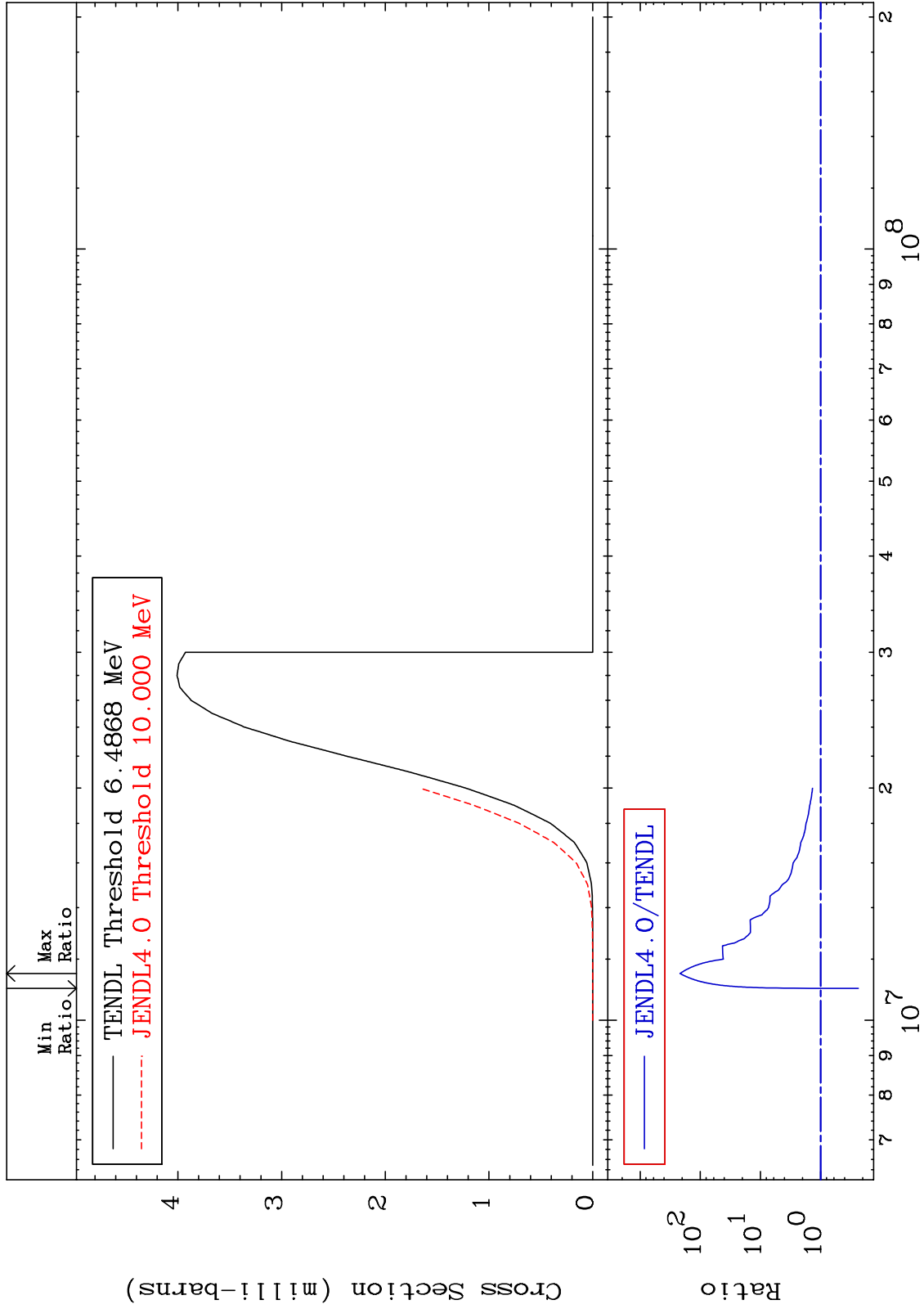
MAT 7043

(n, t)

70-Yb-174

Cross Section

-76.47 To 9999. %



70-Yb-174

Incident Energy (eV)

42

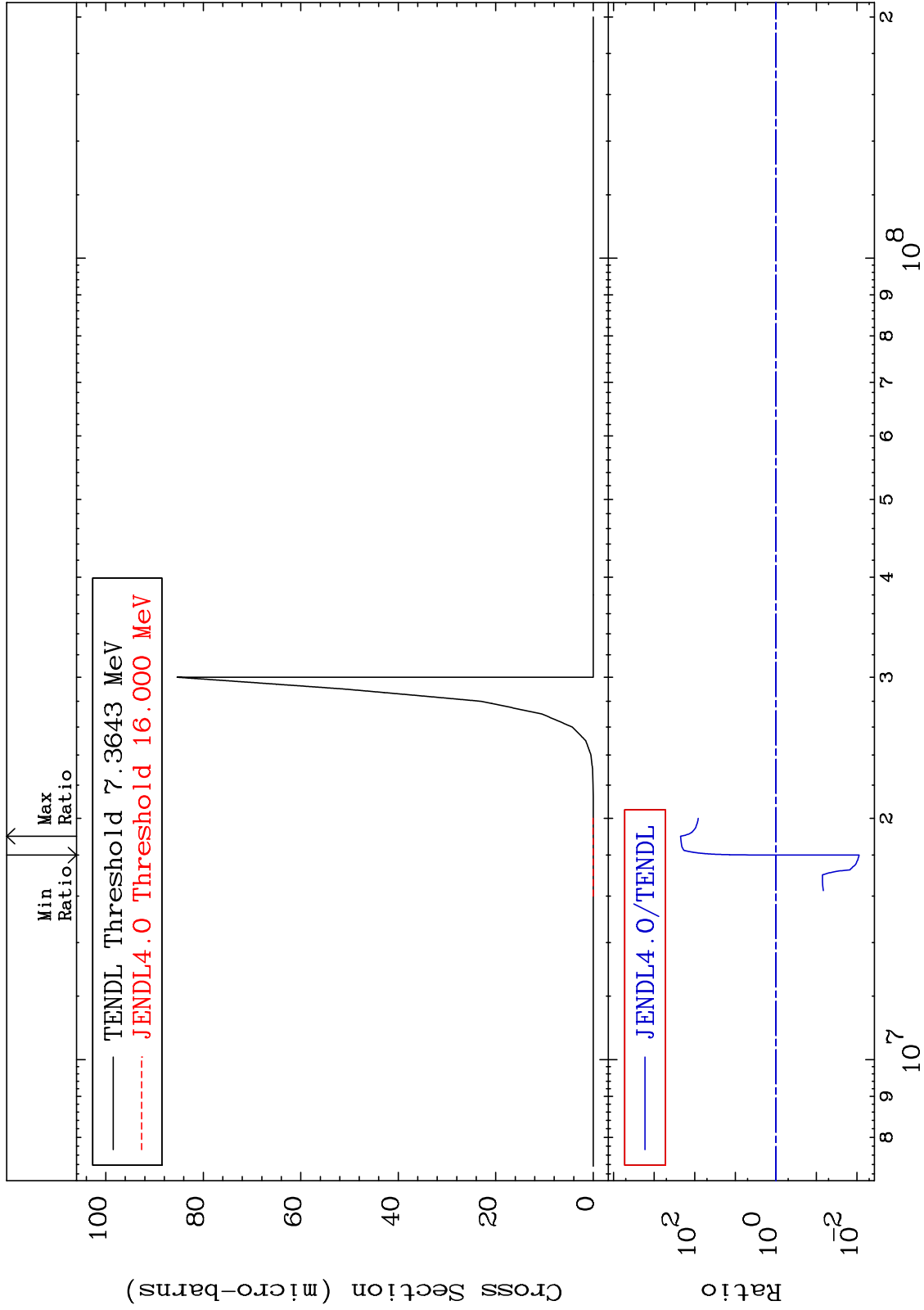
MAT 7043

(n, He-3)

70-Yb-174

Cross Section

-99.12 To 9999. %



43

Incident Energy (eV)

70-Yb-174

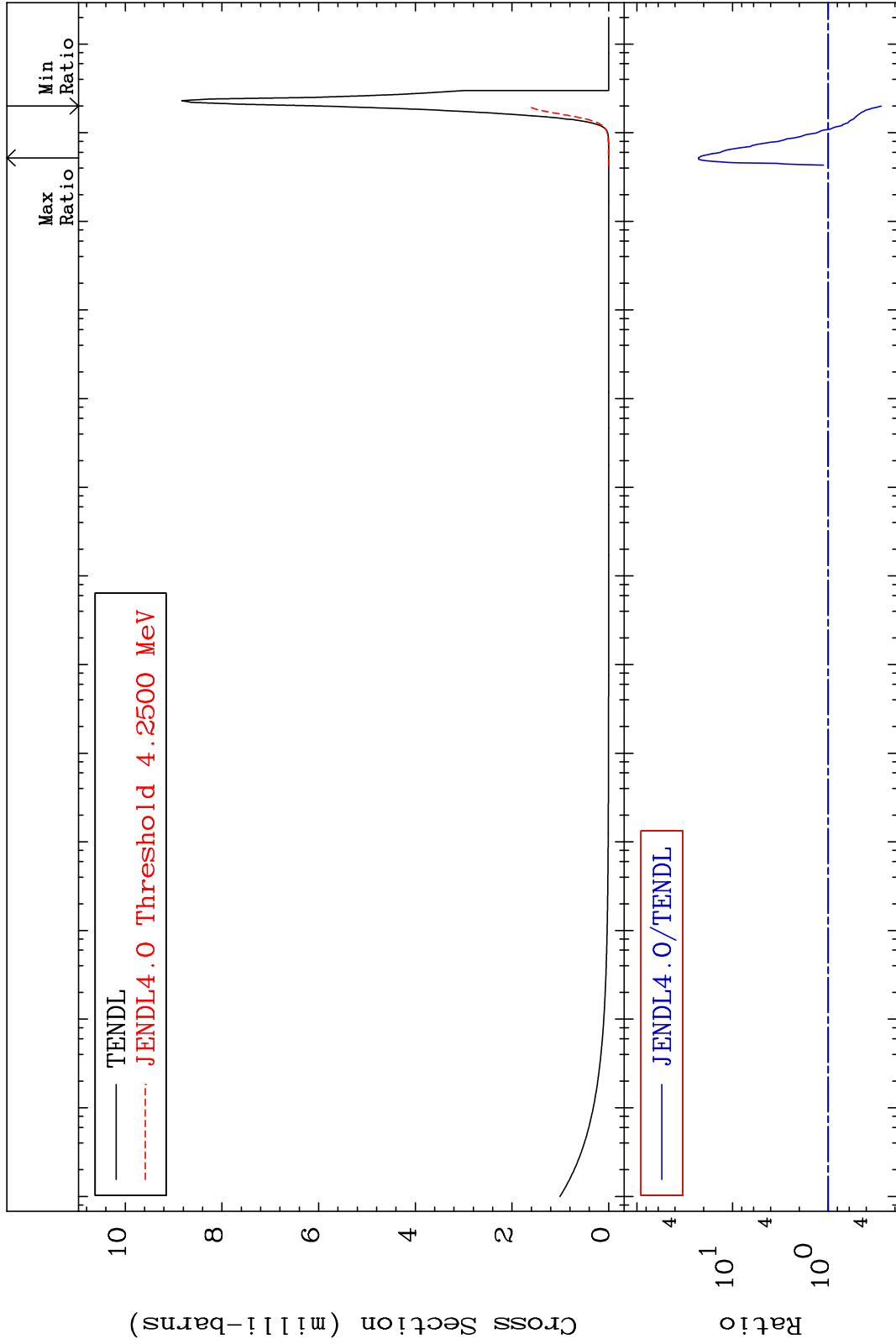
MAT 7043

(n, α)

70-Yb-174

Cross Section

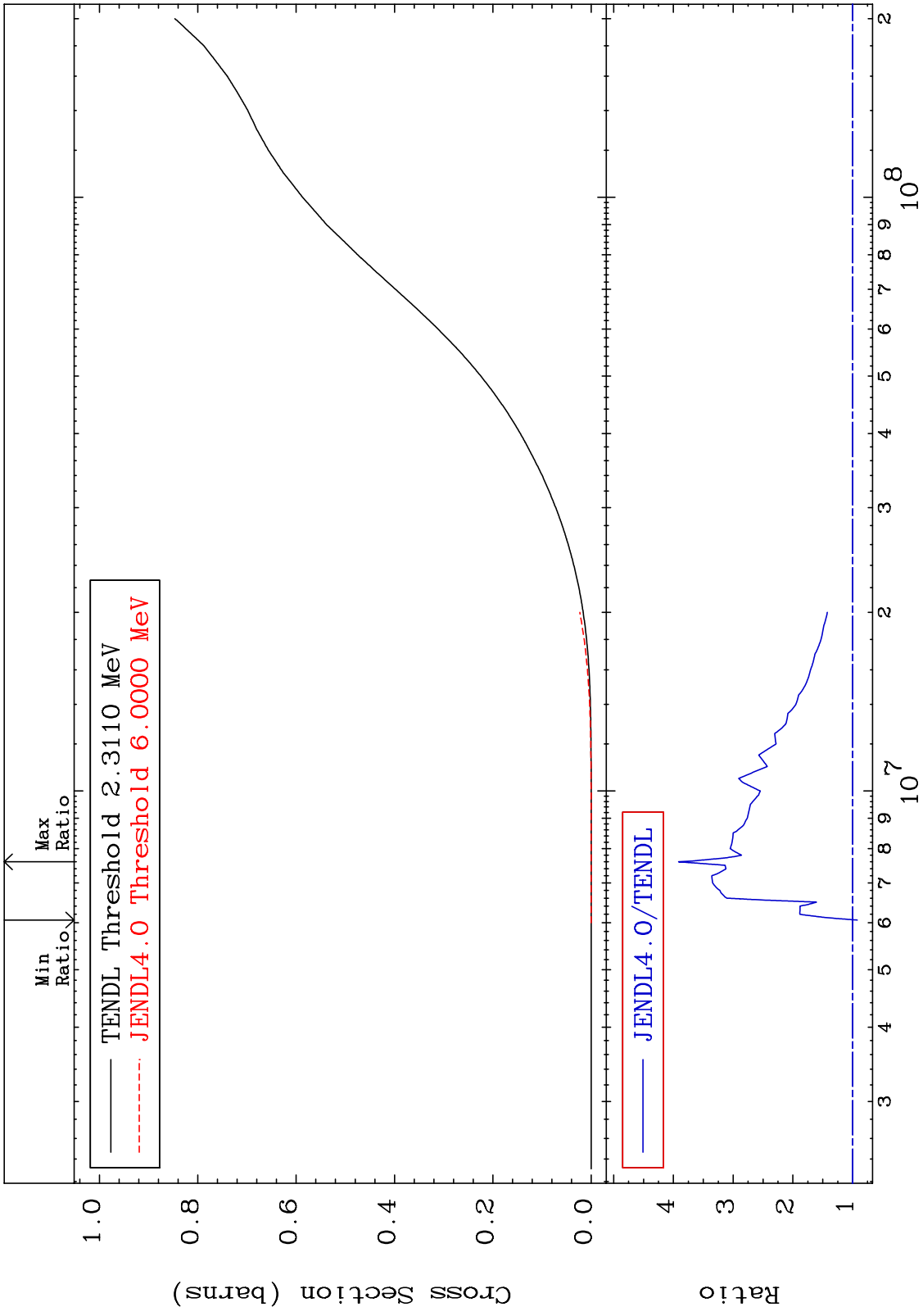
-72.37 To 2176. %



MAT 7043

Hydrogen Production
Cross Section

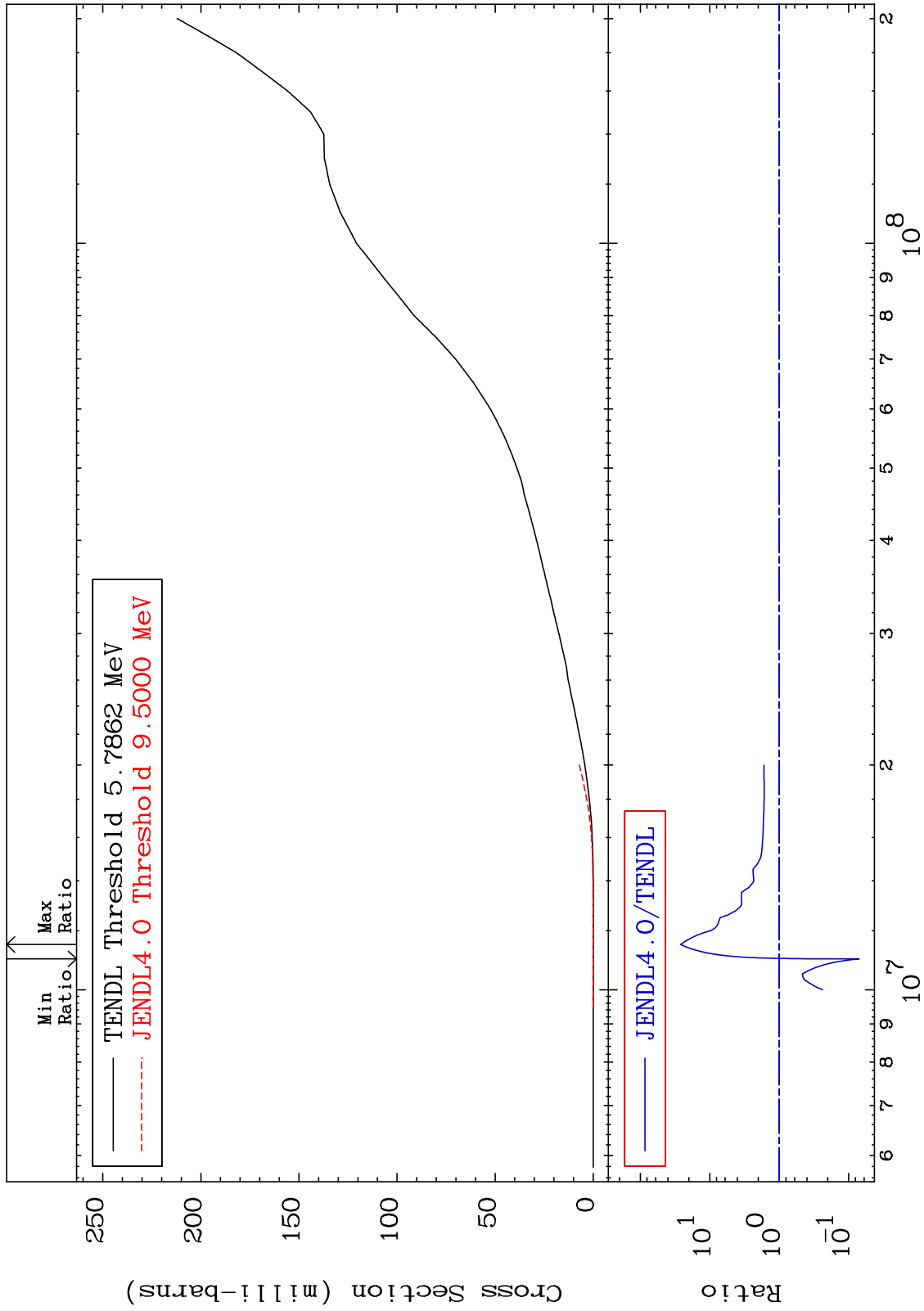
70-Yb-174
-7.772 To 291.3 %



MAT 7043

Deuterium Production
Cross Section

70-Yb-174
-92.94 To 2527. %



46

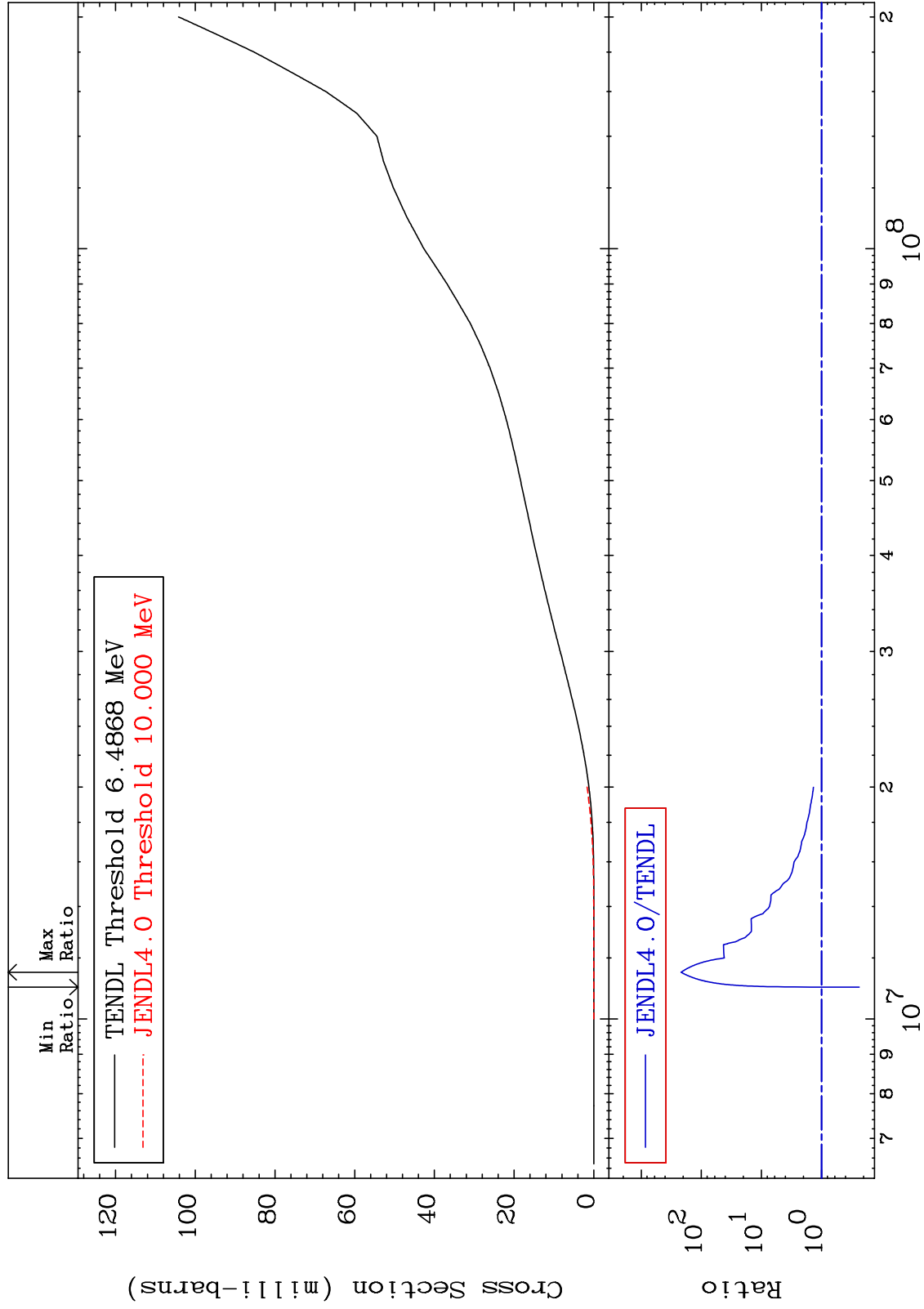
Incident Energy (eV)

70-Yb-174

MAT 7043

Tritium Production
Cross Section

⁷⁰Yb-174
-76.47 To 9999. %



47

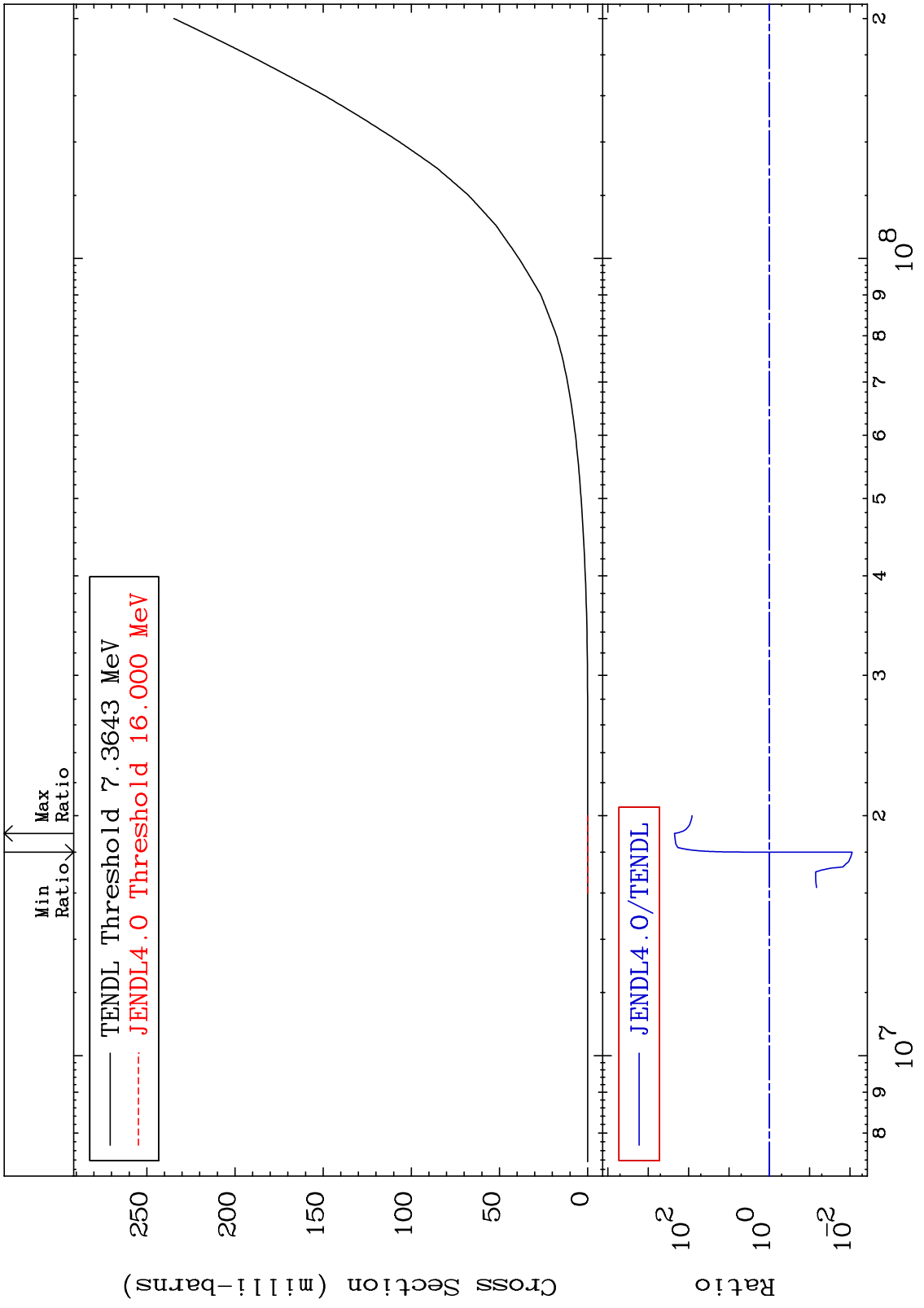
Incident Energy (eV)

⁷⁰Yb-174

MAT 7043

He-3 Production
Cross Section

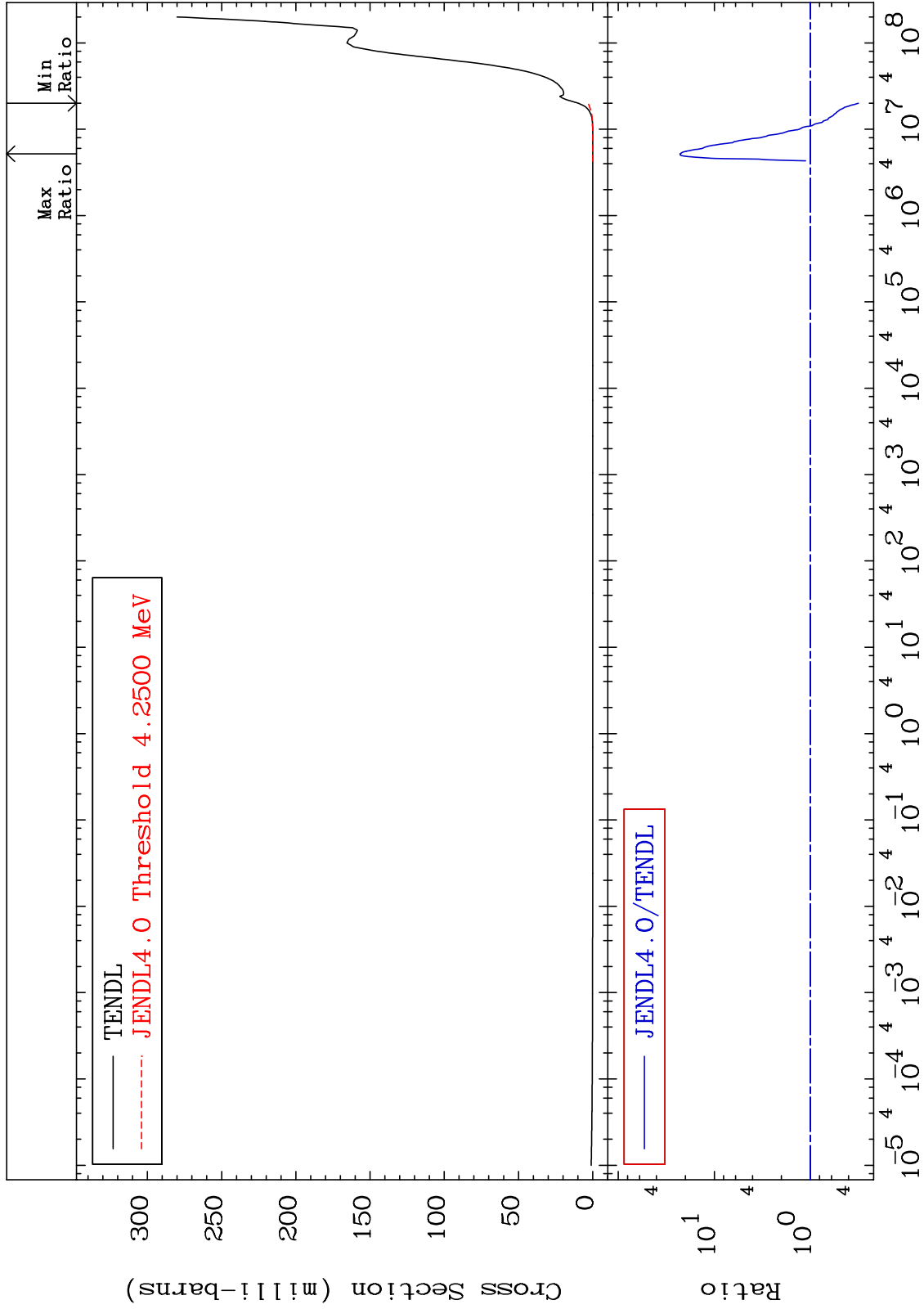
⁷⁰Yb-174
-99.12 To 9999. %



MAT 7043

He-4 Production
Cross Section

70-Yb-174
-68.42 To 2176. %



49

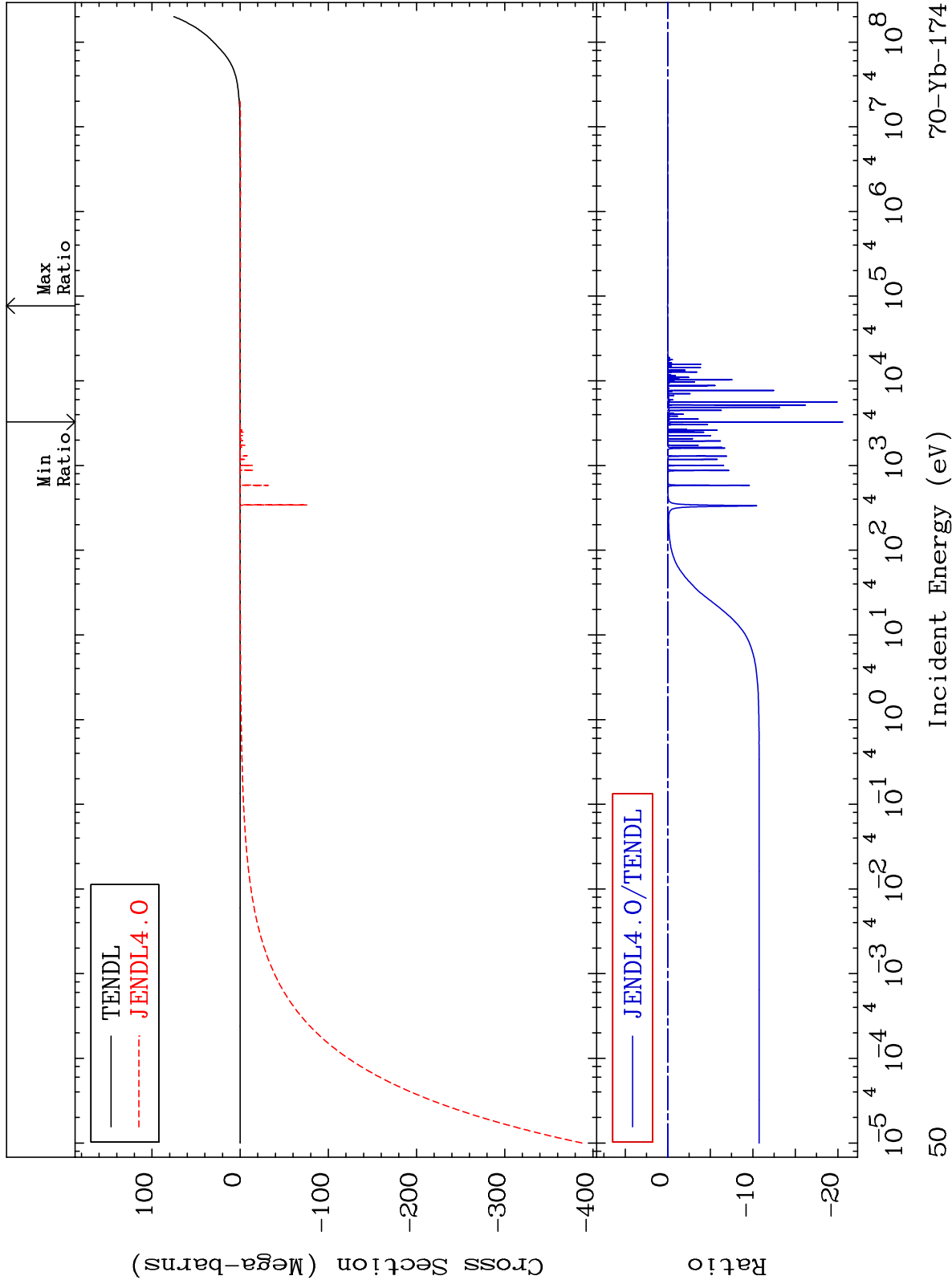
Incident Energy (eV)

70-Yb-174

MAT 7043

Kerma total (eV-barns)
Cross Section

70-Yb-174
-9999. To 2481. %



50

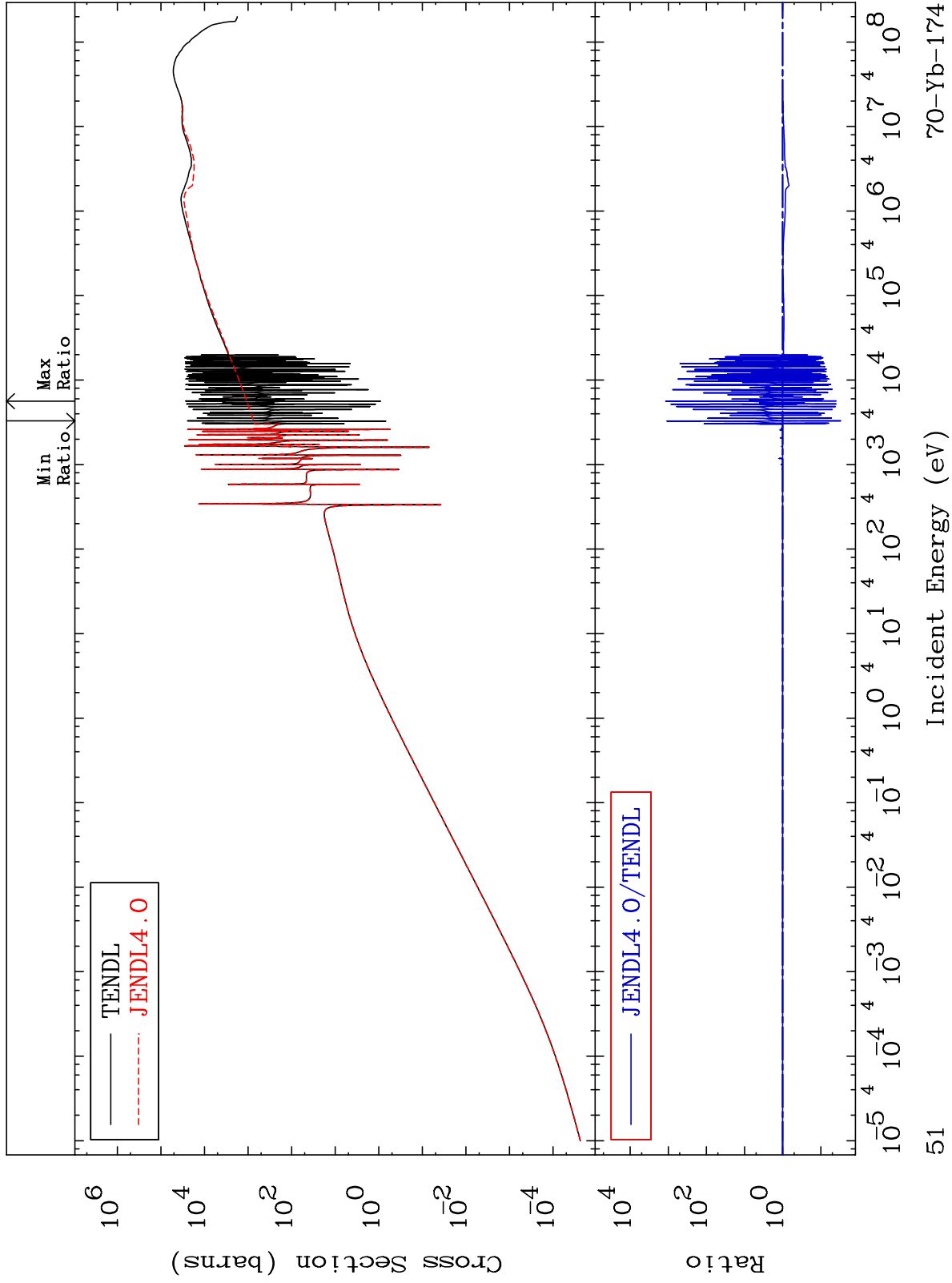
Incident Energy (eV)

70-Yb-174

MAT 7043

Kerma elastic
Cross Section

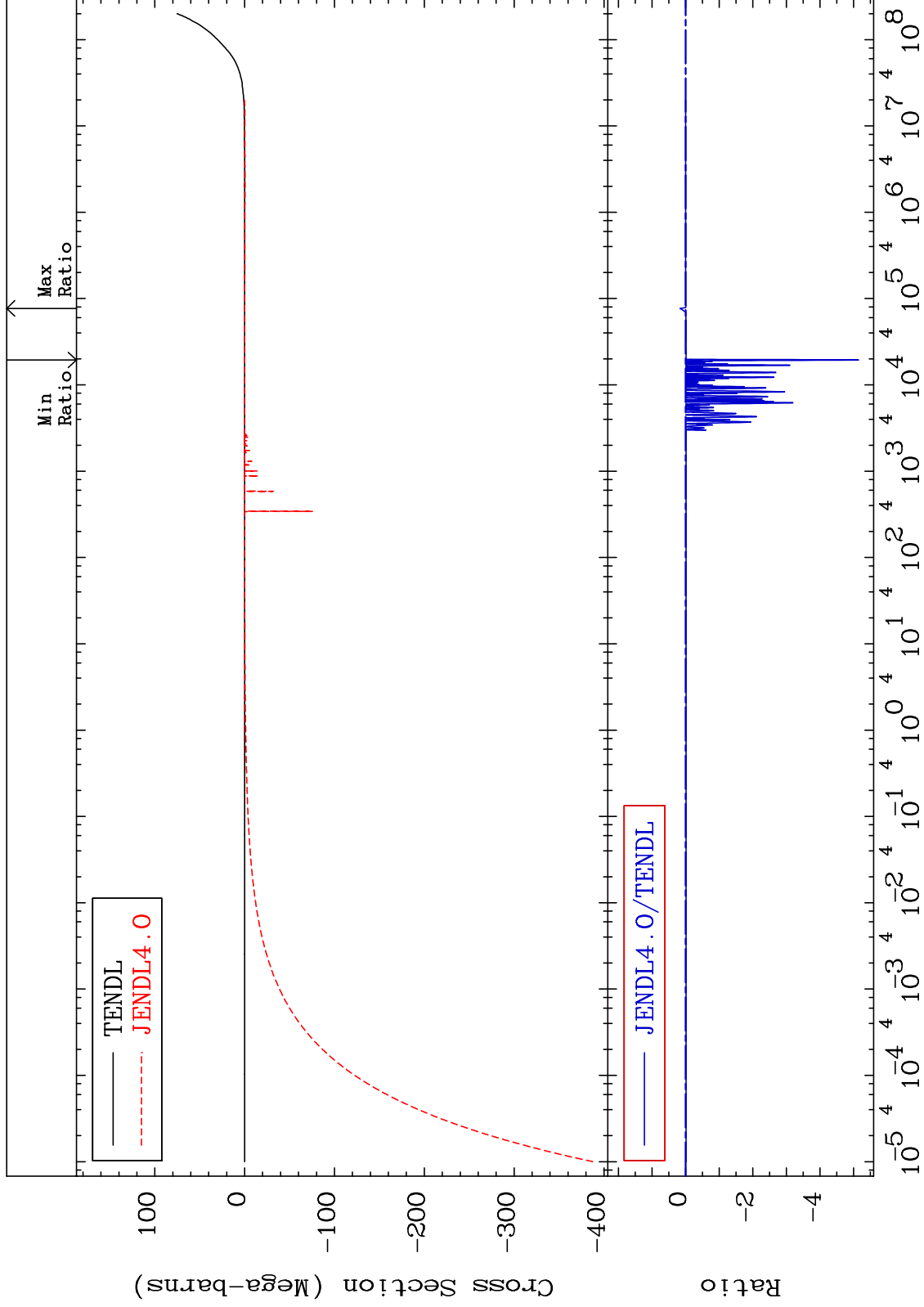
70-Yb-174
-96.95 To 9999. %



MAT 7043

Kerma non-elastic (all but mt2)
Cross Section

70-Yb-174
-9999. To 9999. %



52

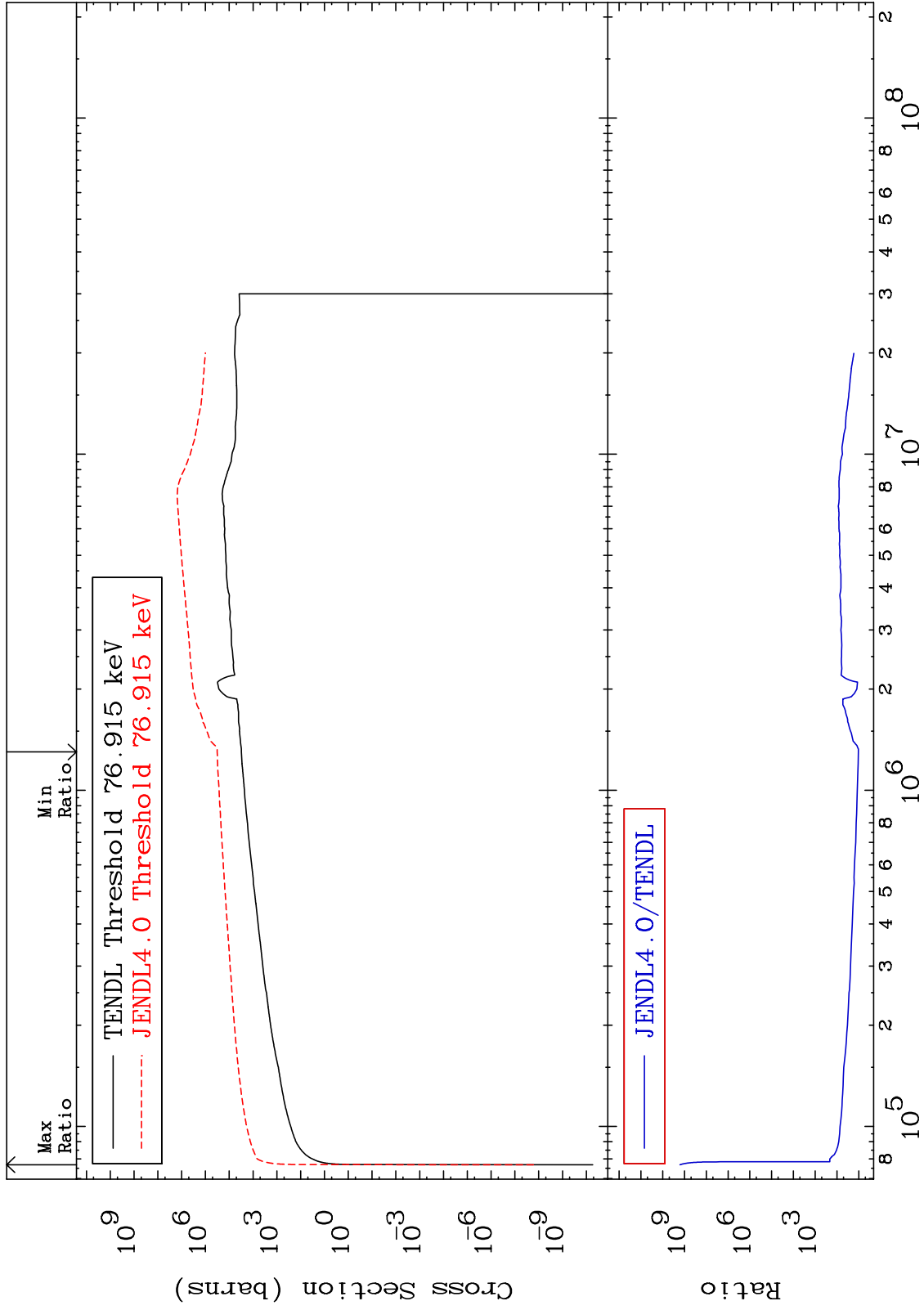
Incident Energy (eV)

70-Yb-174

MAT 7043

Kerma inelastic (mt51-91)
Cross Section

70-Yb-174
931.1 To 9999. %



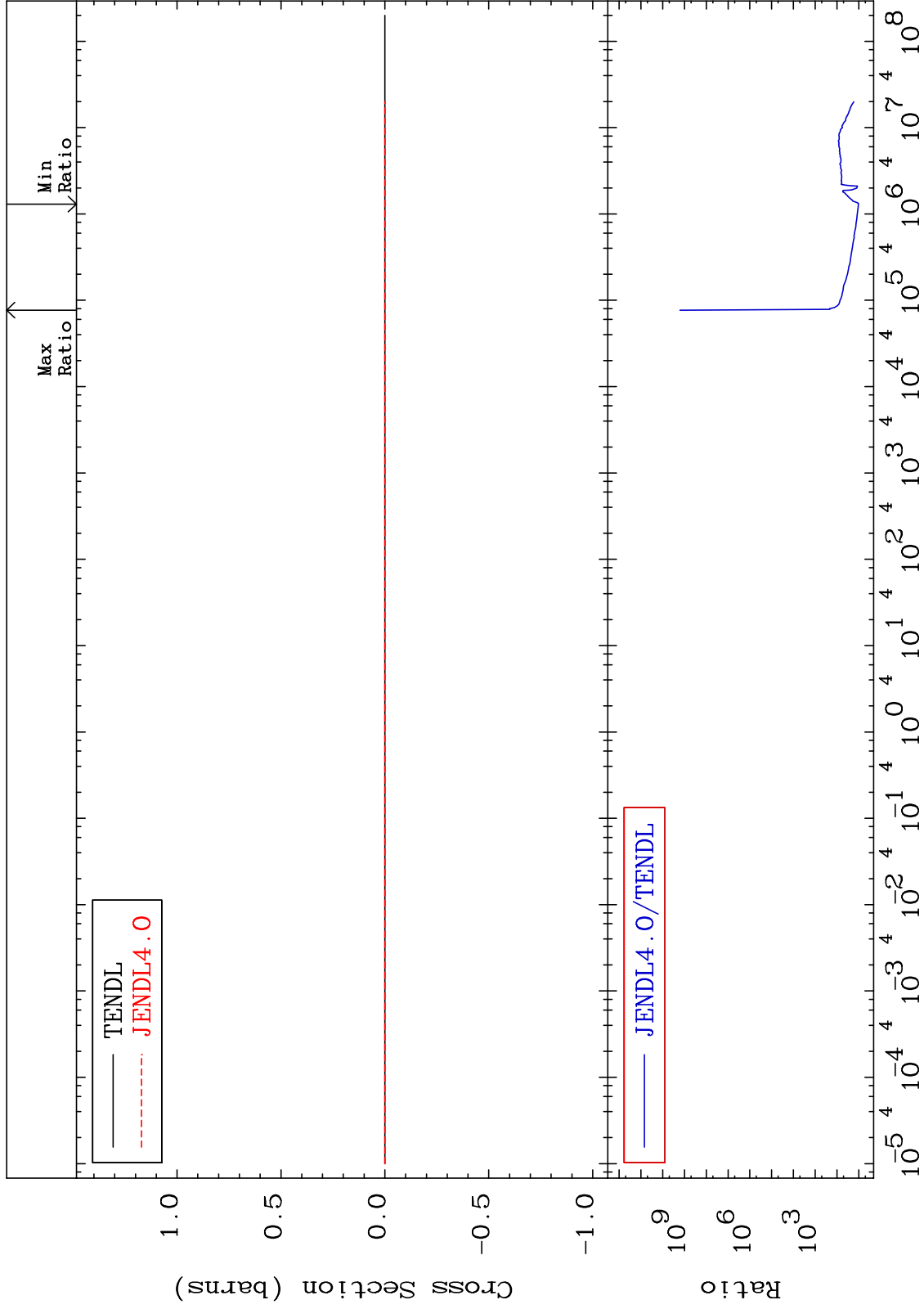
53

70-Yb-174

MAT 7043

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

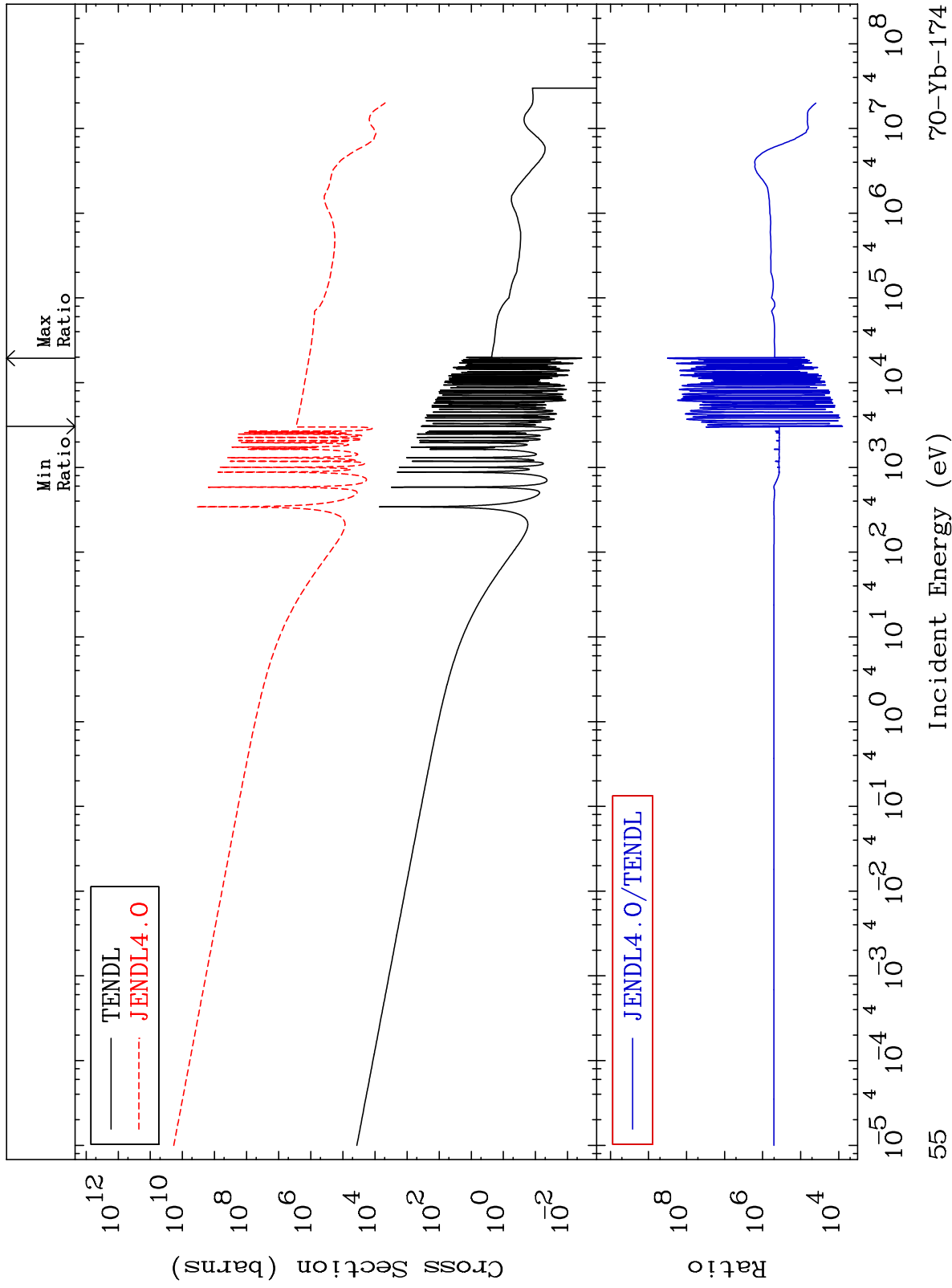
70-Yb-174
931.1 To 9999. %



MAT 7043

Kerma capture (mt102)
Cross Section

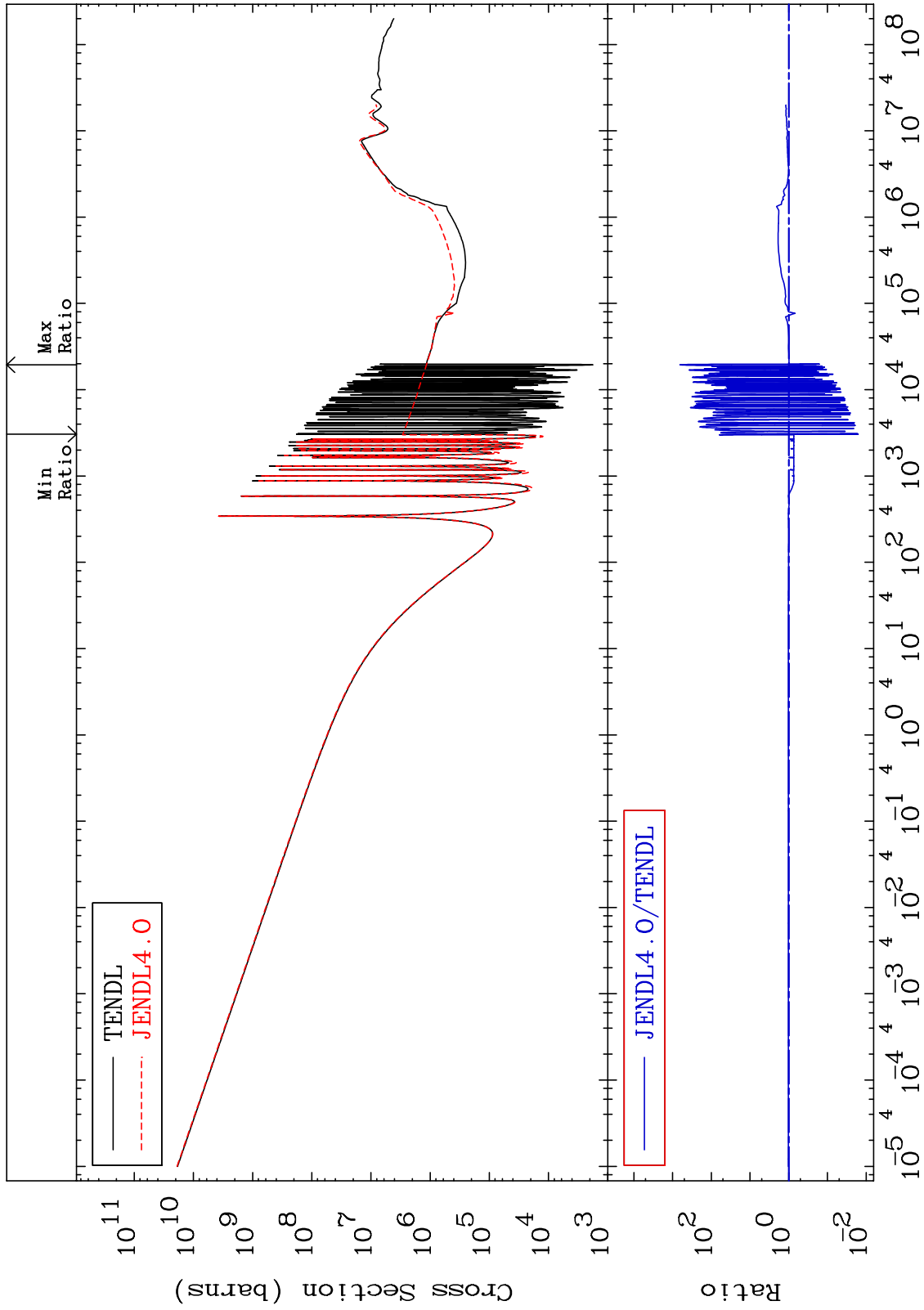
70-Yb-174
9999. To 9999. %



MAT 7043

Total photon (eV-barns)
Cross Section

70-Yb-174
-98.41 To 9999. %



56

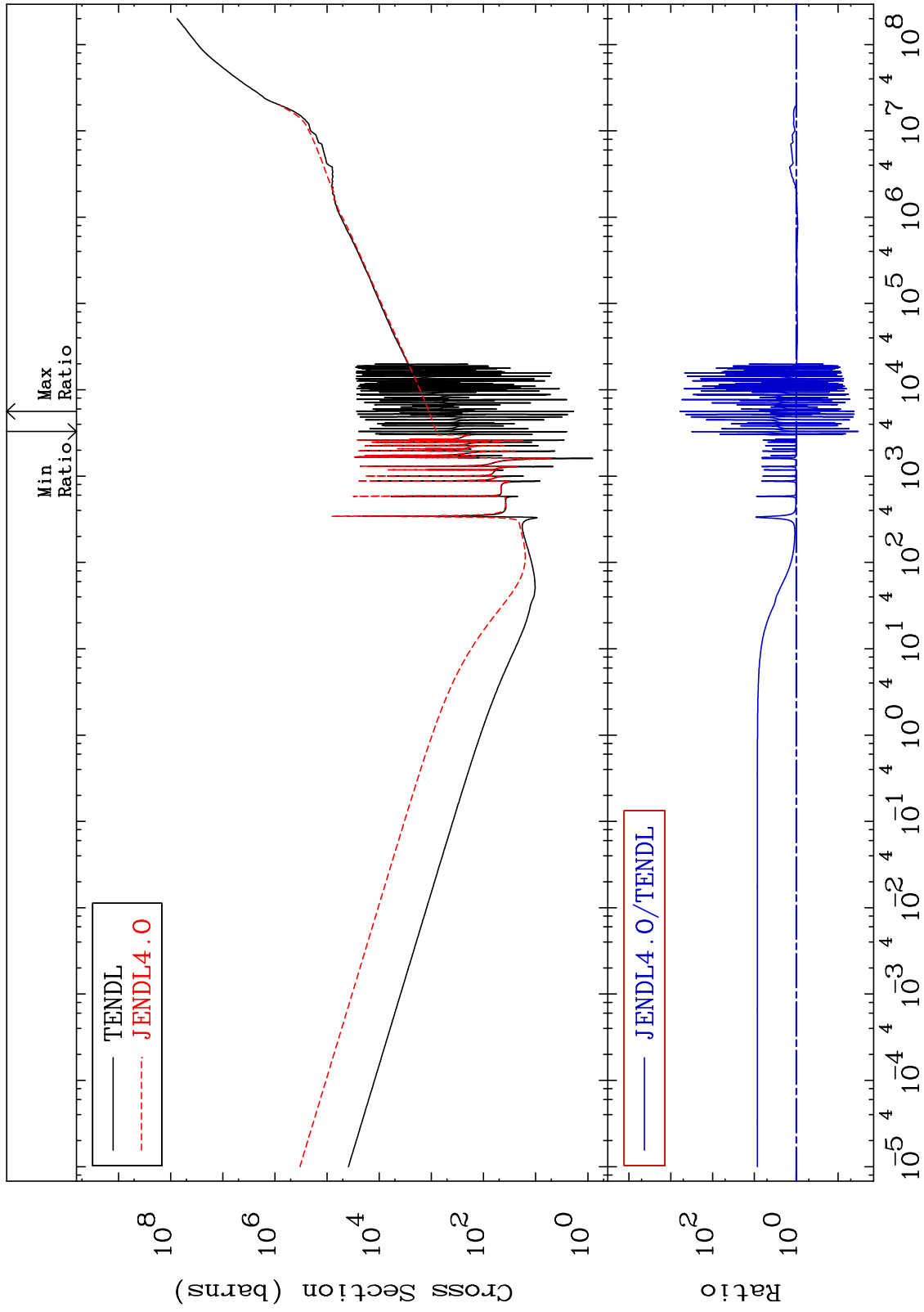
Incident Energy (eV)

70-Yb-174

MAT 7043

Total kinematic kerma (high limit)
Cross Section

70-Yb-174
-96.74 To 9999. %



57

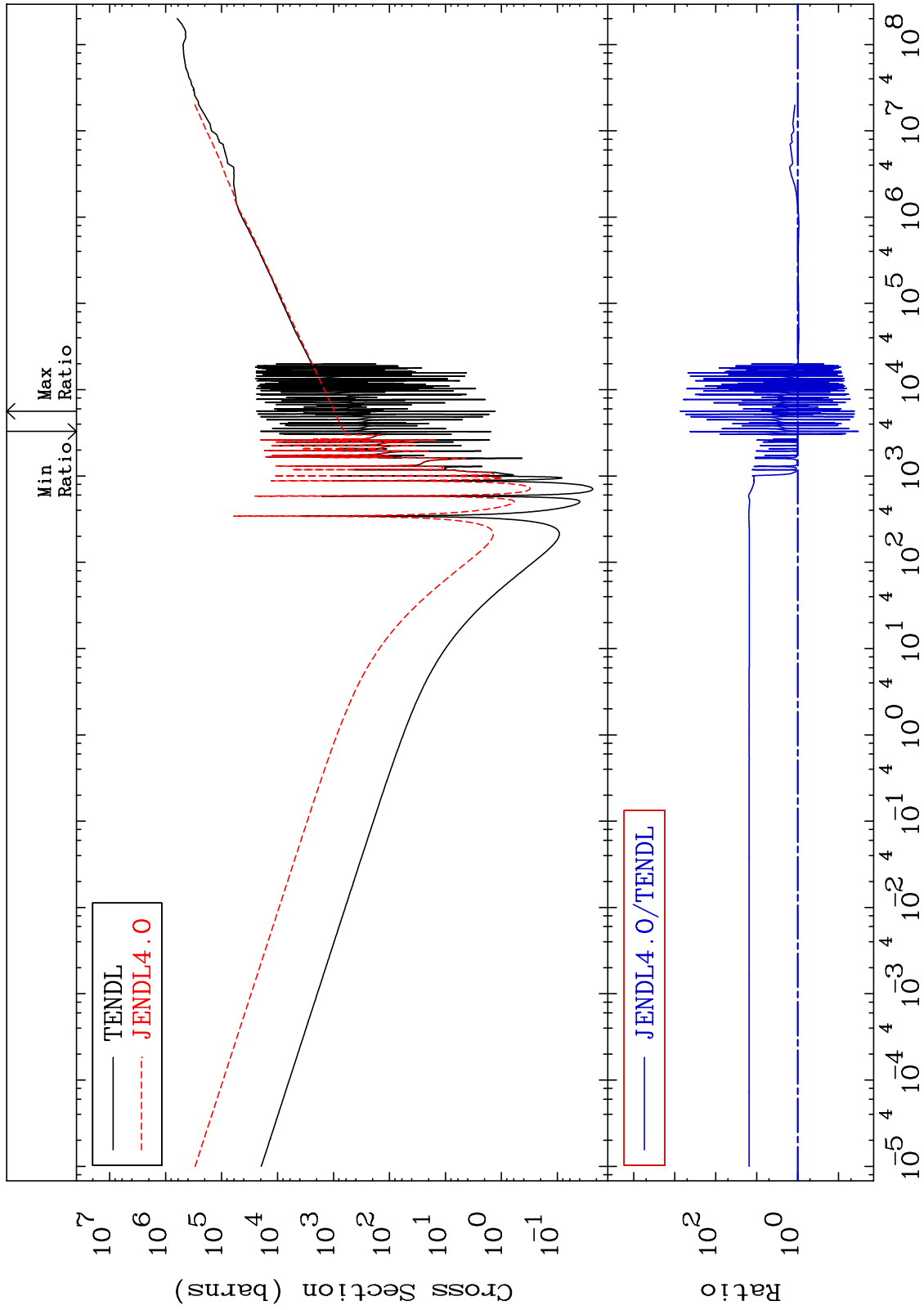
Incident Energy (eV)

70-Yb-174

MAT 7043

Dpa total (eV-barns)
Cross Section

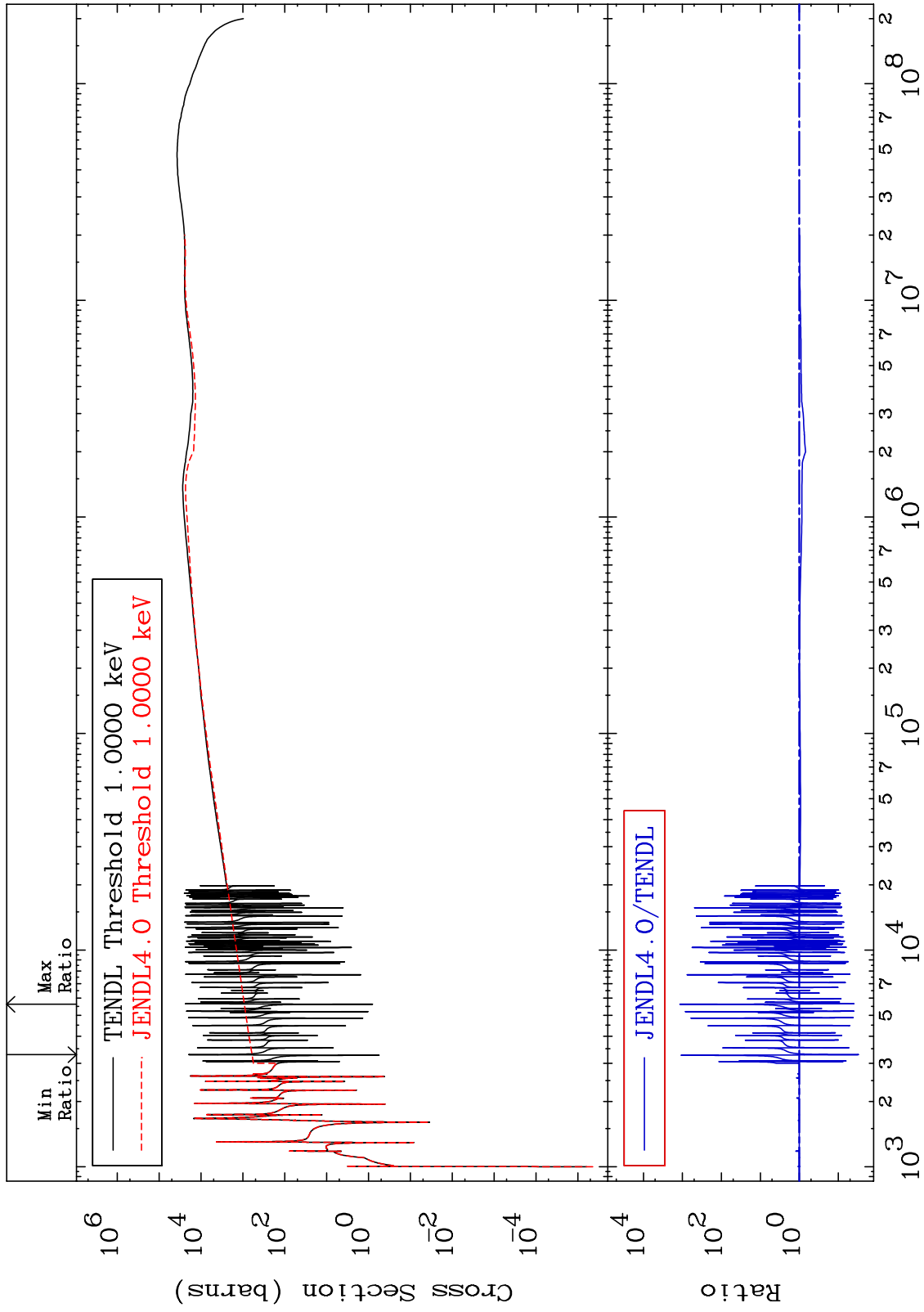
70-Yb-174
-96.72 To 9999. %



MAT 7043

Dpa elastic (mt2)
Cross Section

70-Yb-174
-96.96 To 9999. %



59

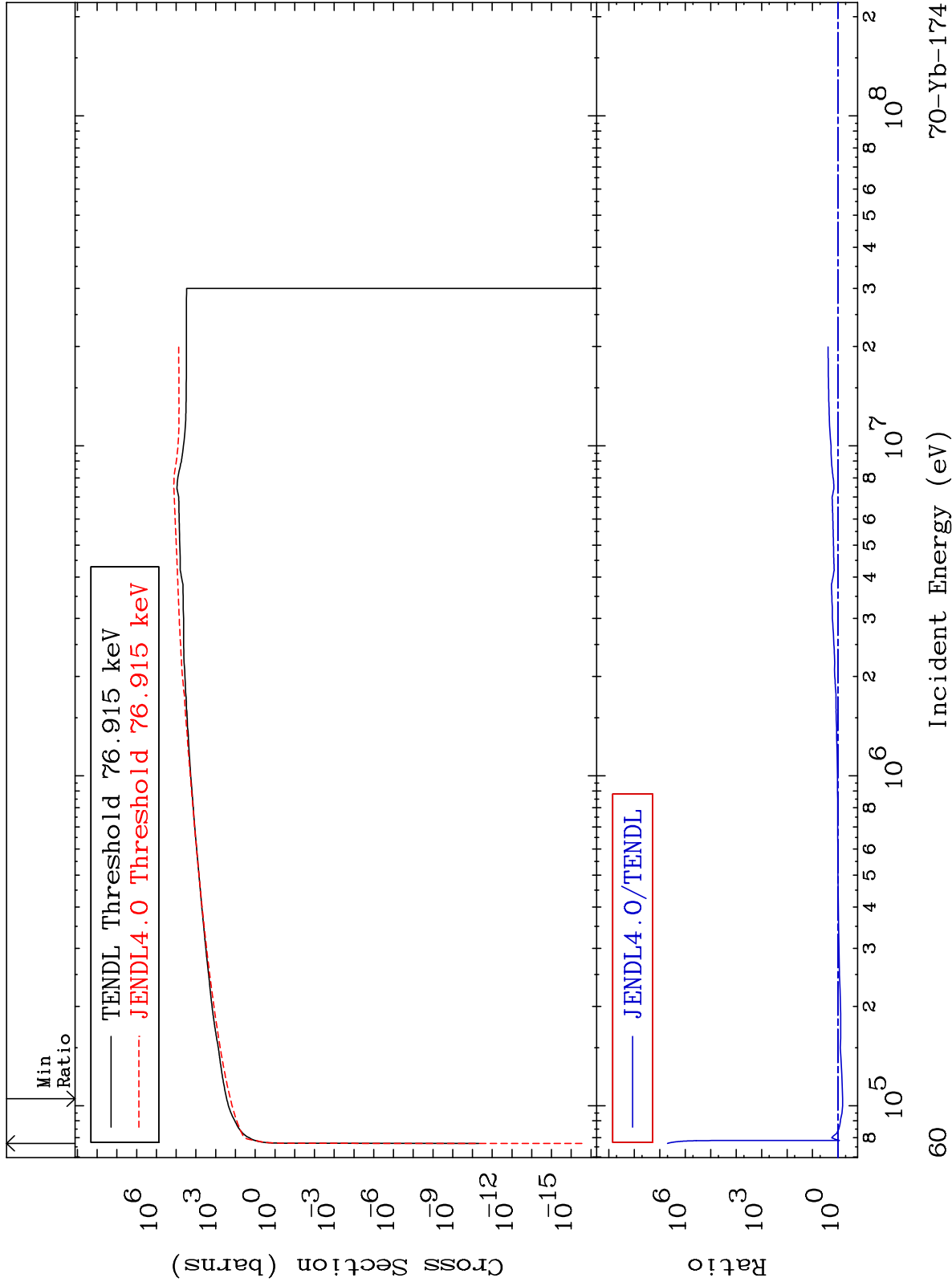
Incident Energy (eV)

70-Yb-174

MAT 7043

Dpa inelastic (mt51-91)
Cross Section

70-Yb-174
-34.54 To 9999. %



60

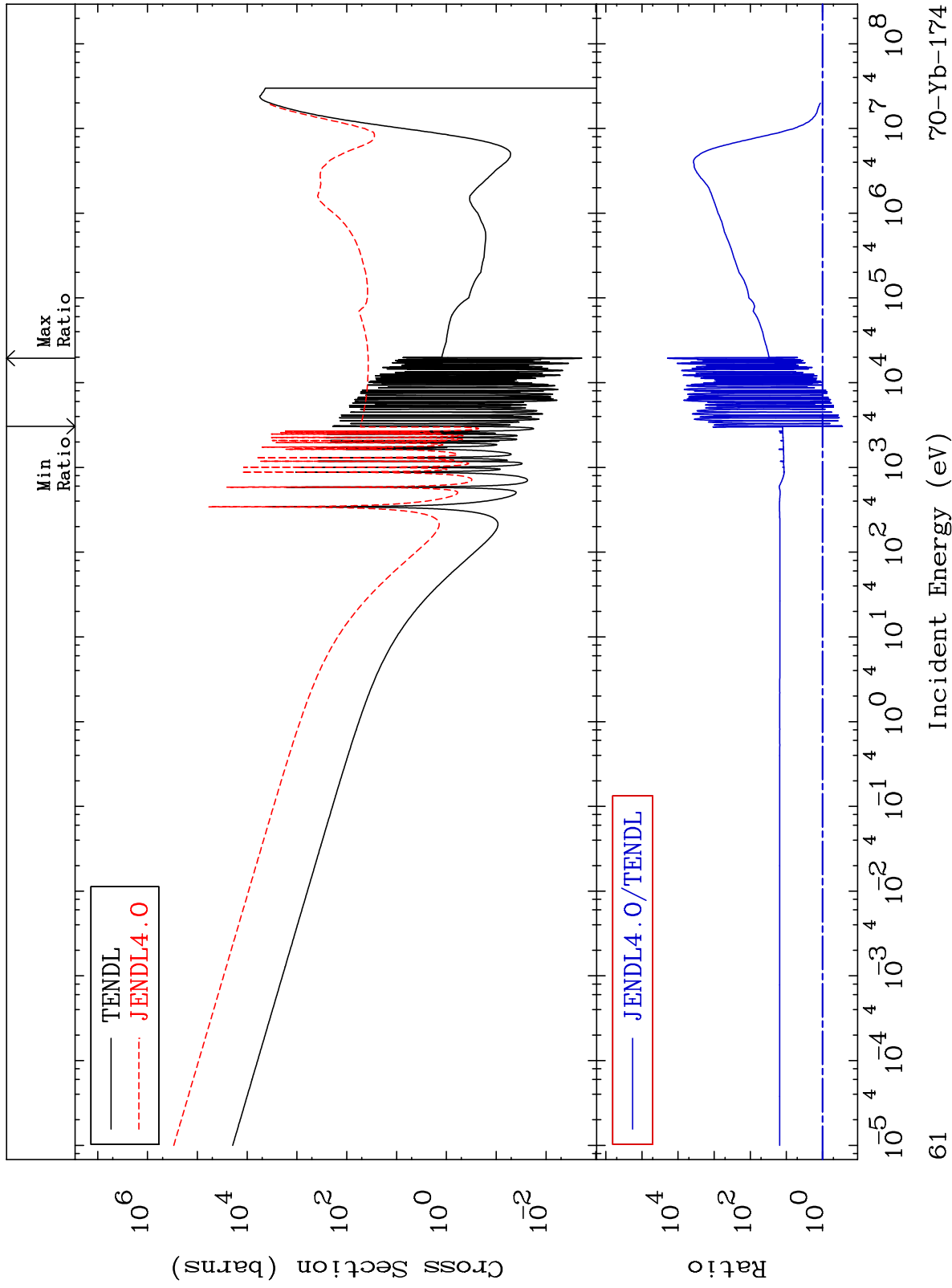
Incident Energy (eV)

70-Yb-174

MAT 7043

Dpa disappearance (mt102 -120)
Cross Section

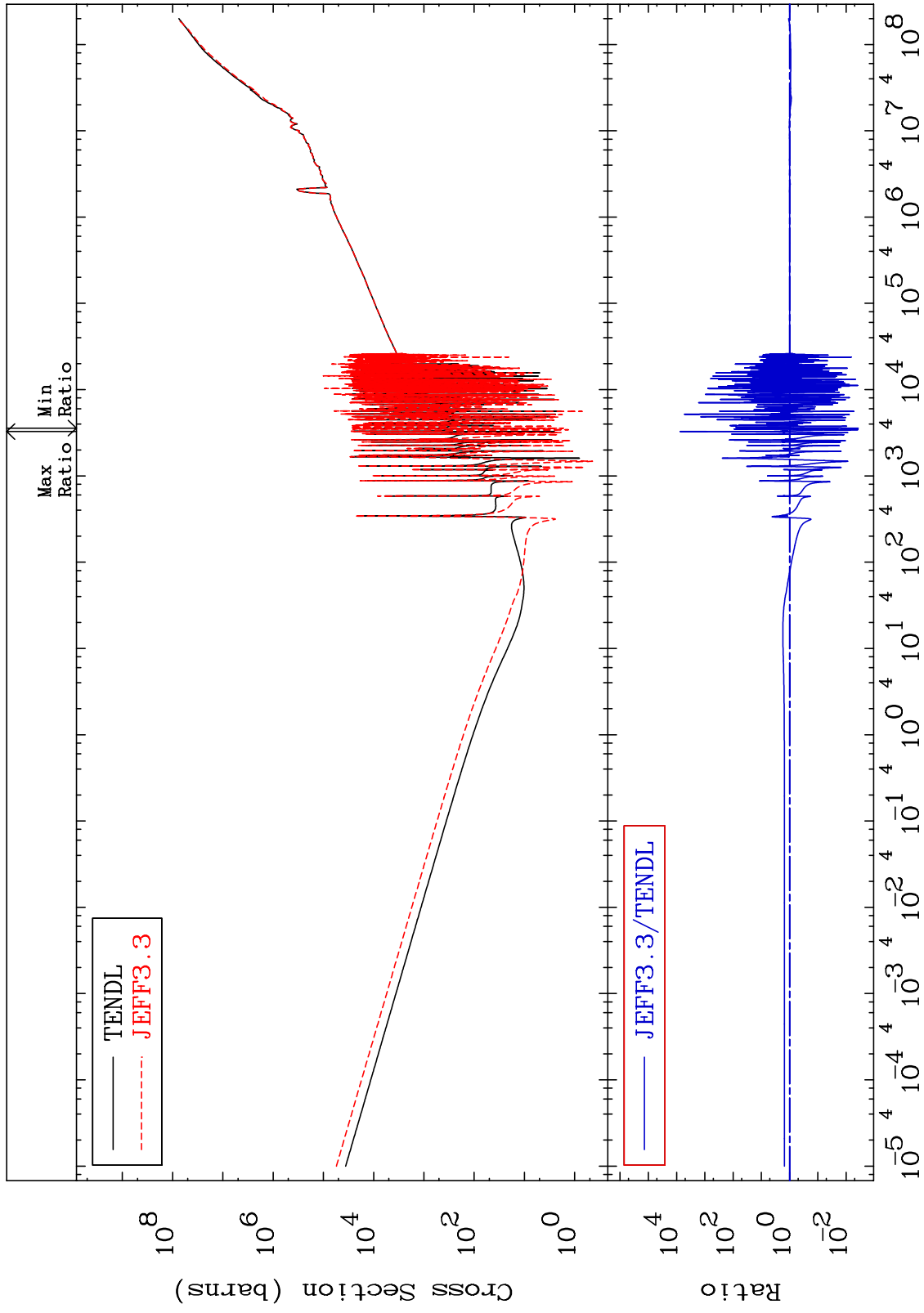
70-Yb-174
-72.40 To 9999. %



MAT 7043

Kerma total (eV-barns)
Cross Section

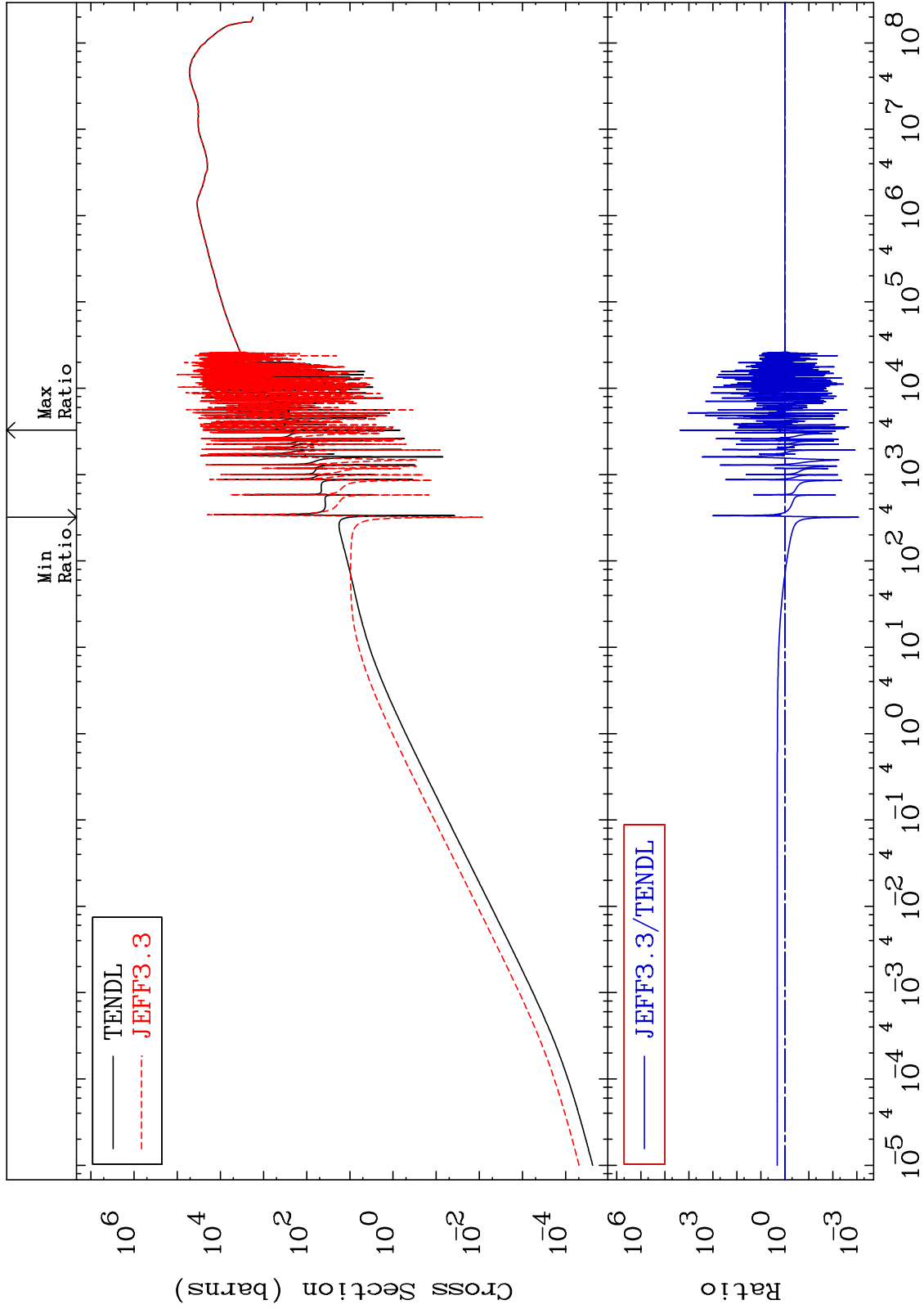
70-Yb-174
-99.63 To 9999. %



MAT 7043

Kerma elastic
Cross Section

70-Yb-174
-99.91 To 9999. %



63

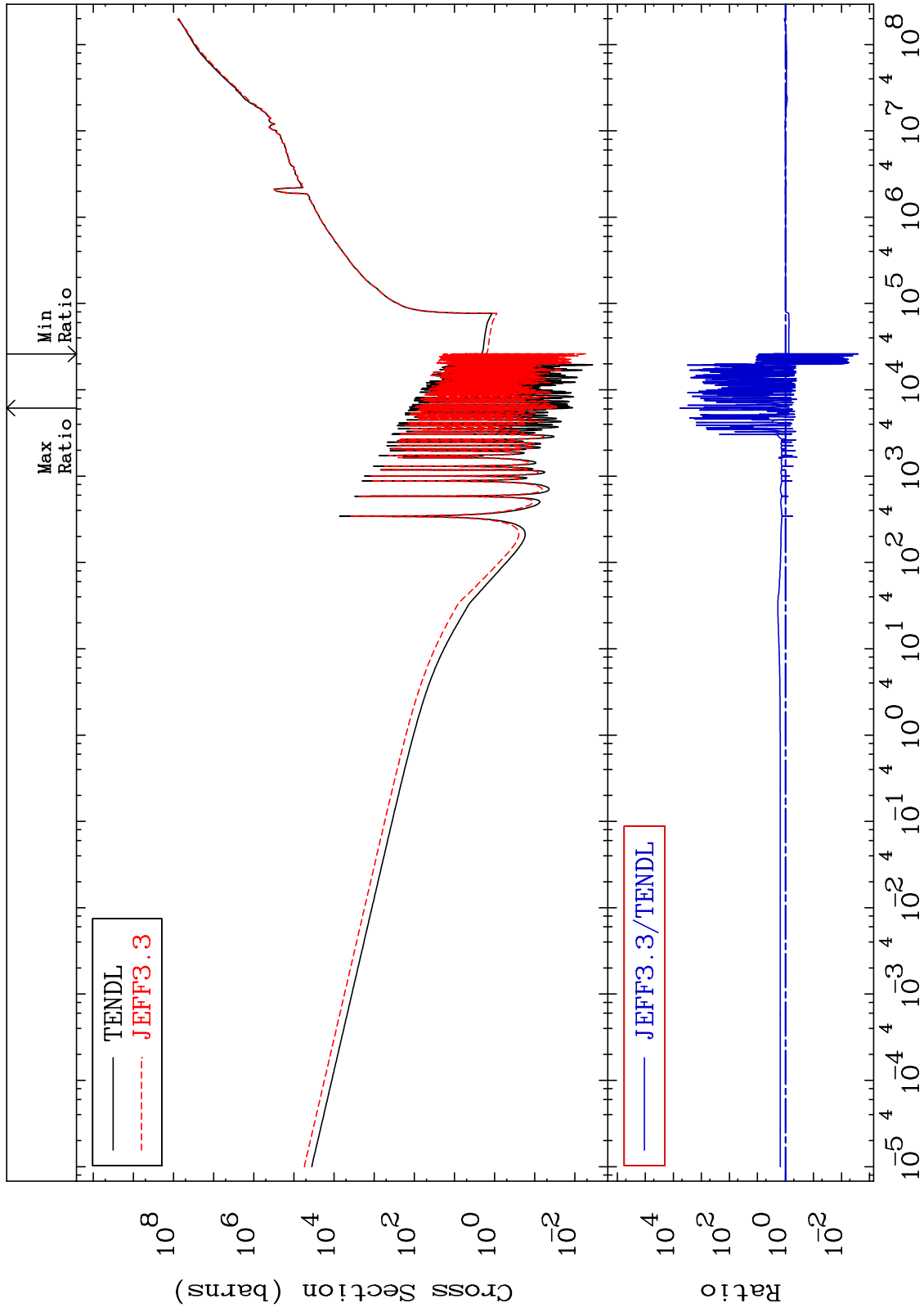
Incident Energy (eV)

70-Yb-174

MAT 7043

Kerma non-elastic (all but mt2)
Cross Section

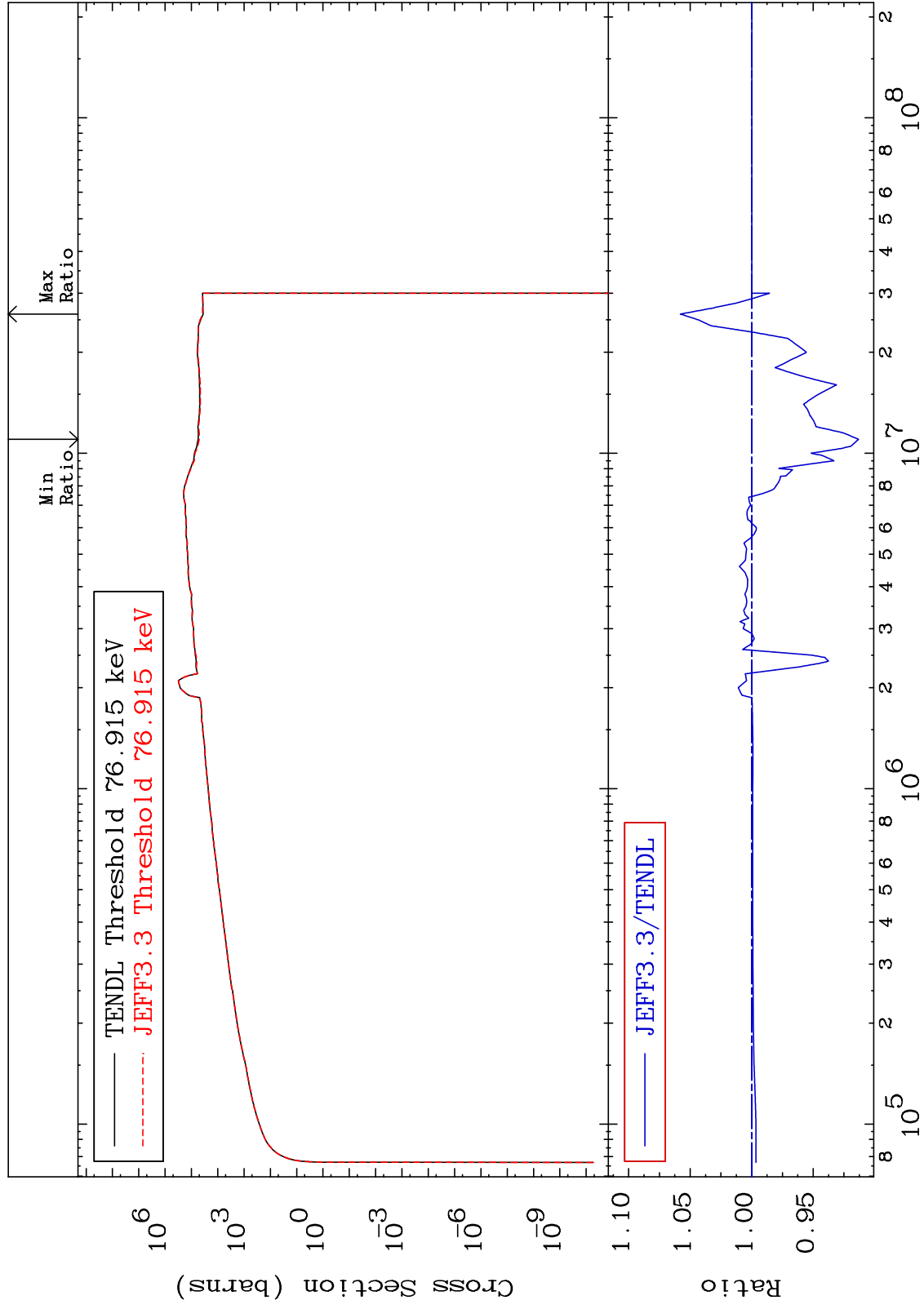
70-Yb-174
-99.75 To 9999. %



MAT 7043

Kerma inelastic (mt51-91)
Cross Section

70-Yb-174
-8.683 To 5.789 %



65

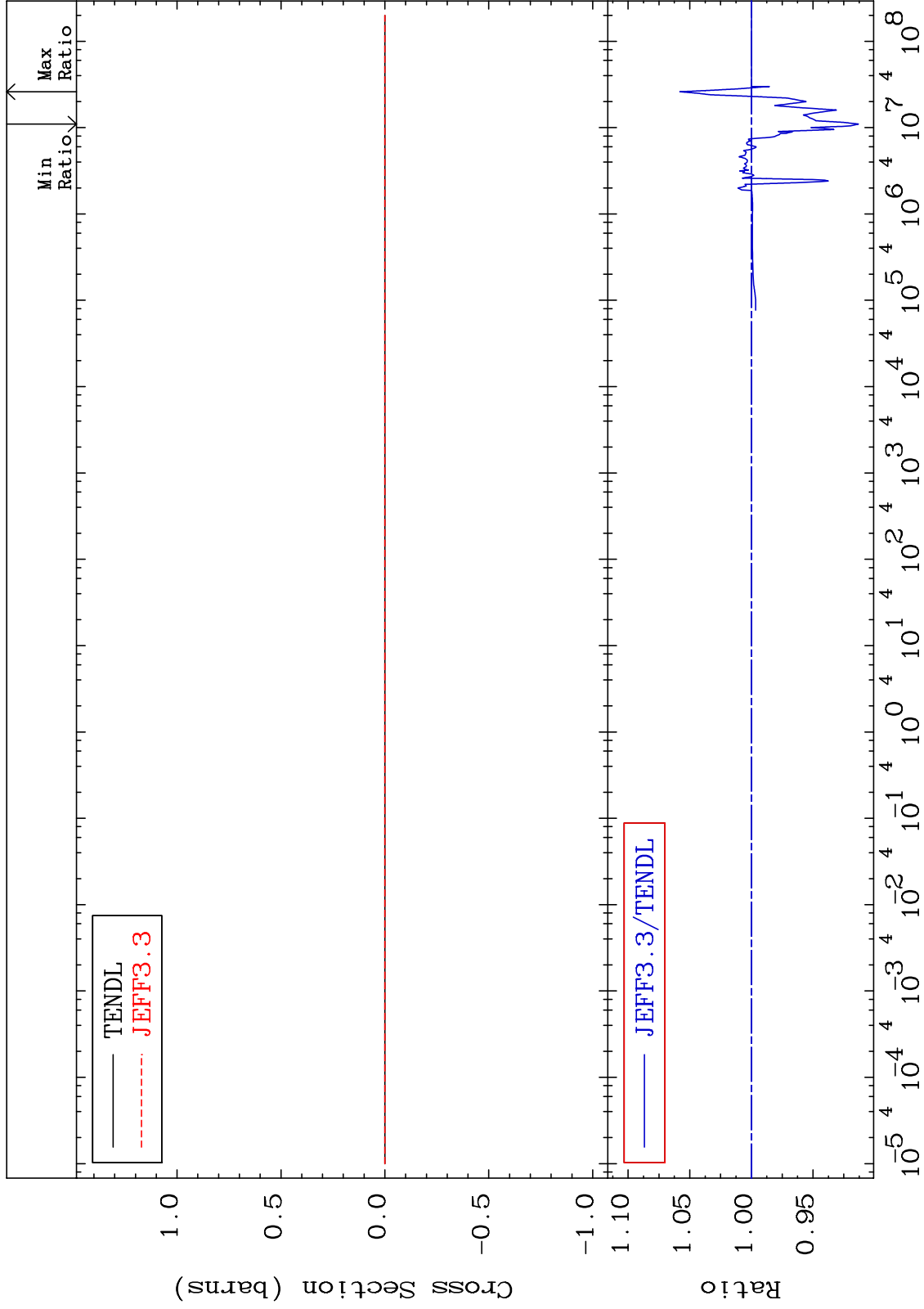
Incident Energy (eV)

70-Yb-174

MAT 7043

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

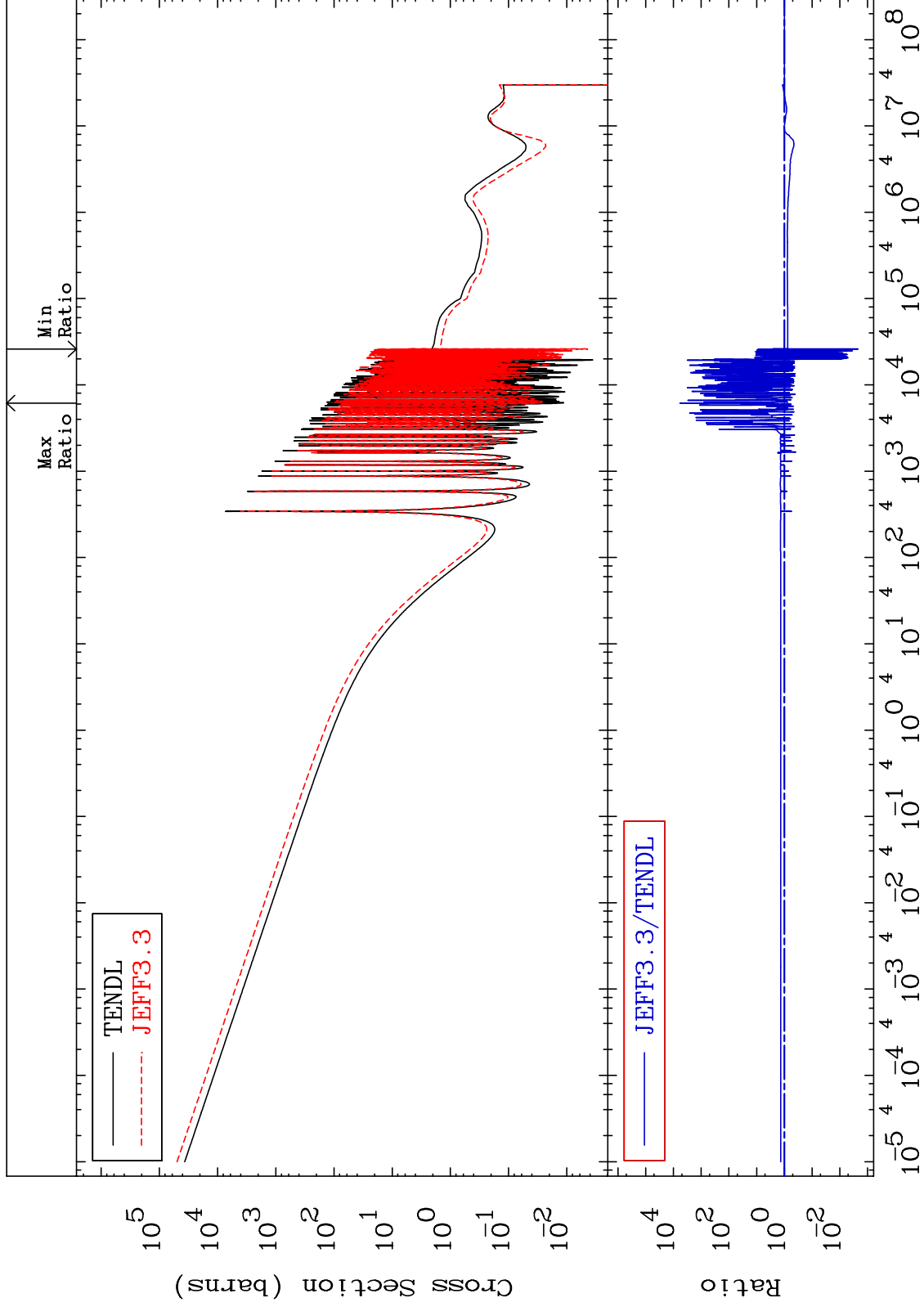
70-Yb-174
-8.683 To 5.789 %



MAT 7043

Kerma capture (mt102)
Cross Section

70-Yb-174
-99.79 To 9999. %



67

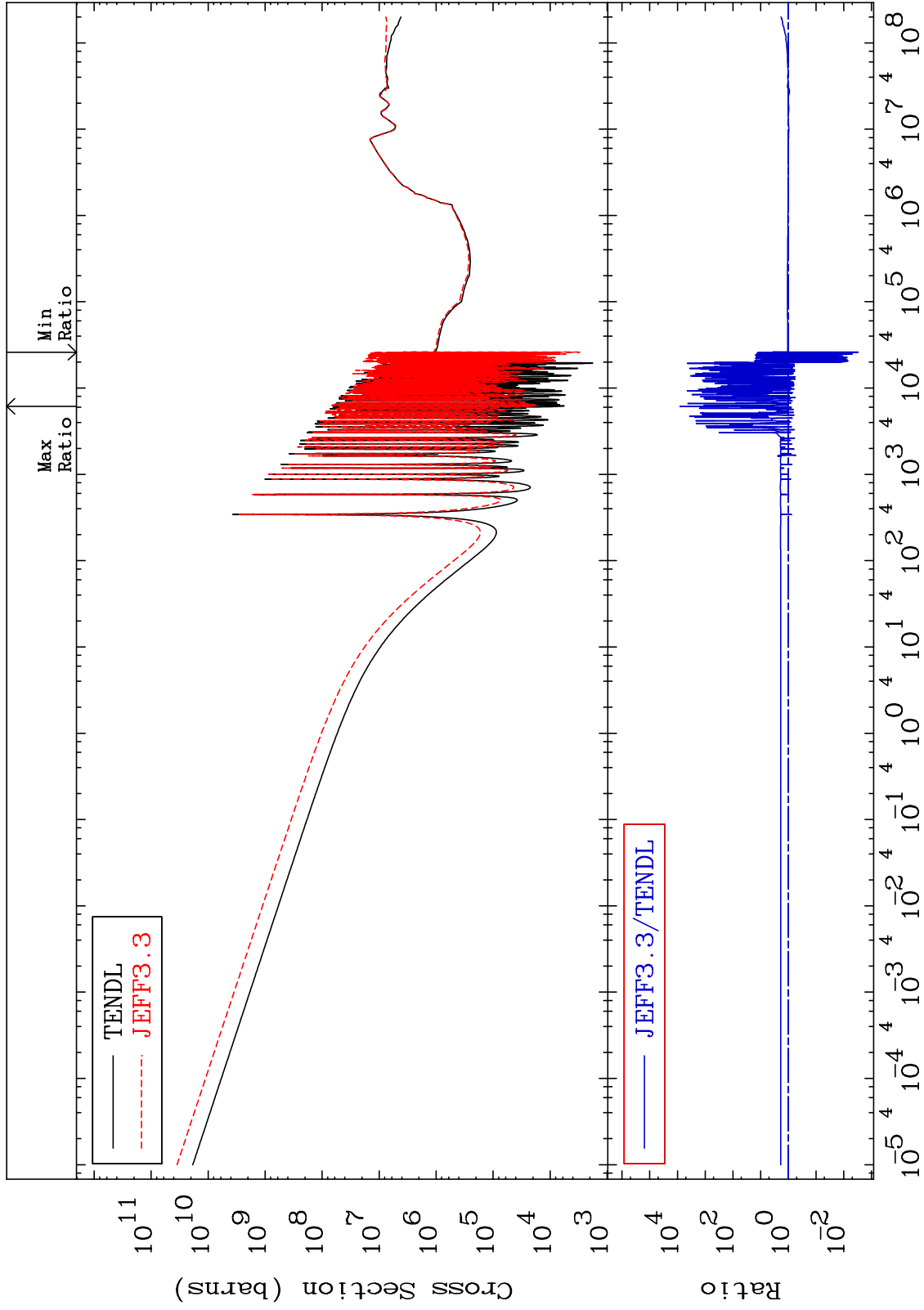
Incident Energy (eV)

70-Yb-174

MAT 7043

Total photon (eV-barns)
Cross Section

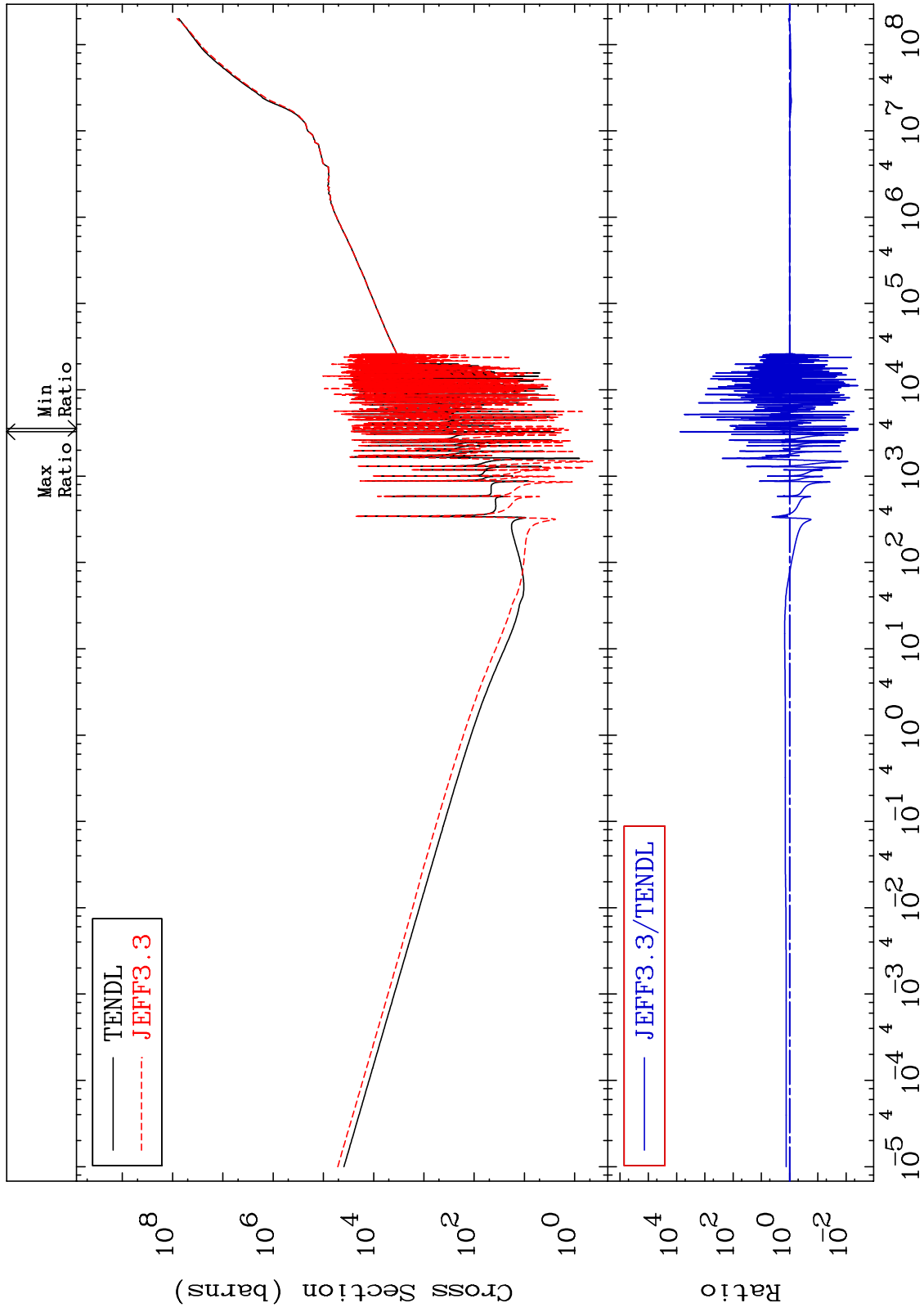
70-Yb-174
-99.70 To 9999. %



MAT 7043

Total kinematic kerma (high limit)
Cross Section

70-Yb-174
-99.63 To 9999. %



69

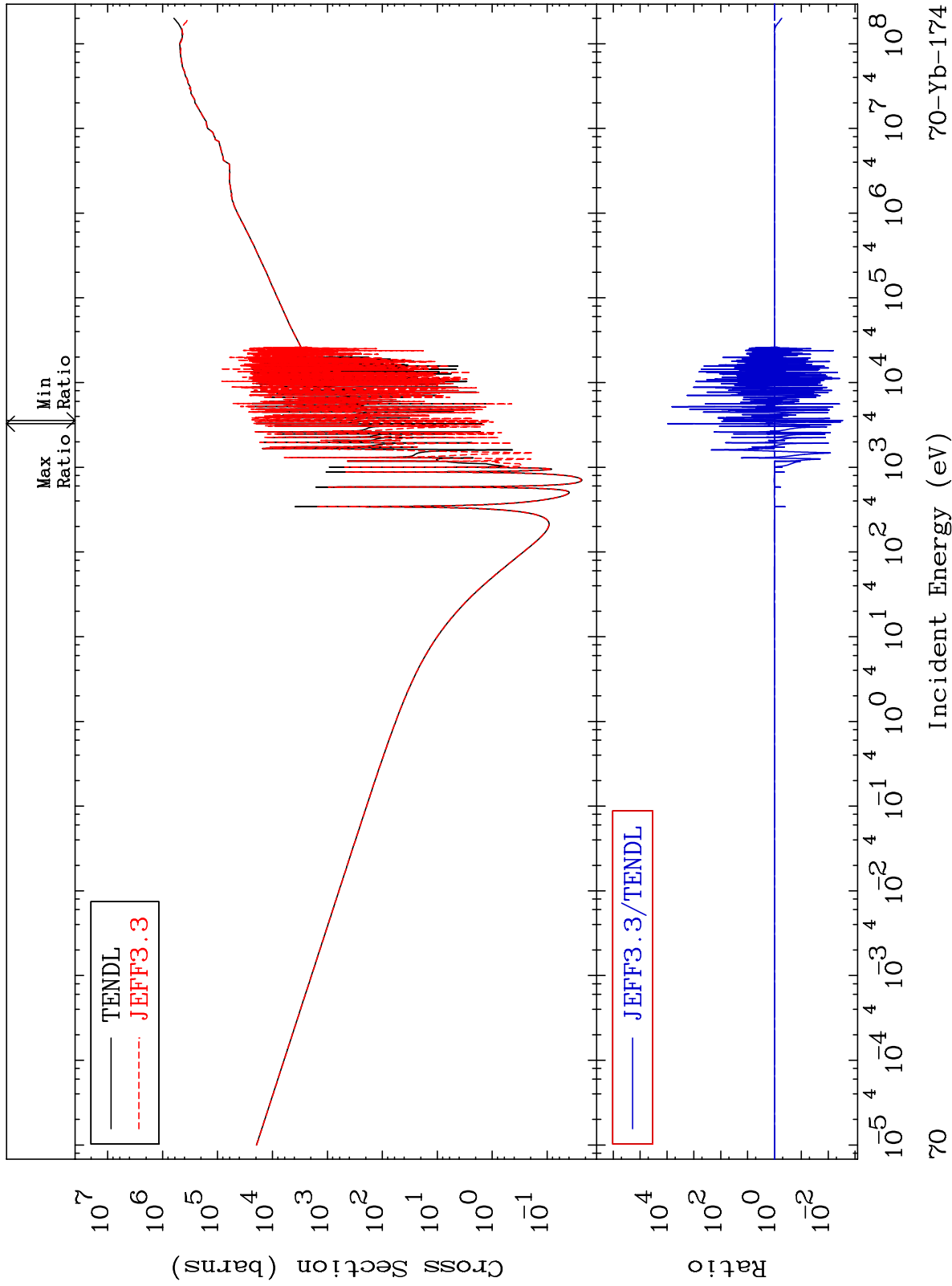
Incident Energy (eV)

70-Yb-174

MAT 7043

Dpa total (eV-barns)
Cross Section

70-Yb-174
-99.71 To 9999. %



70

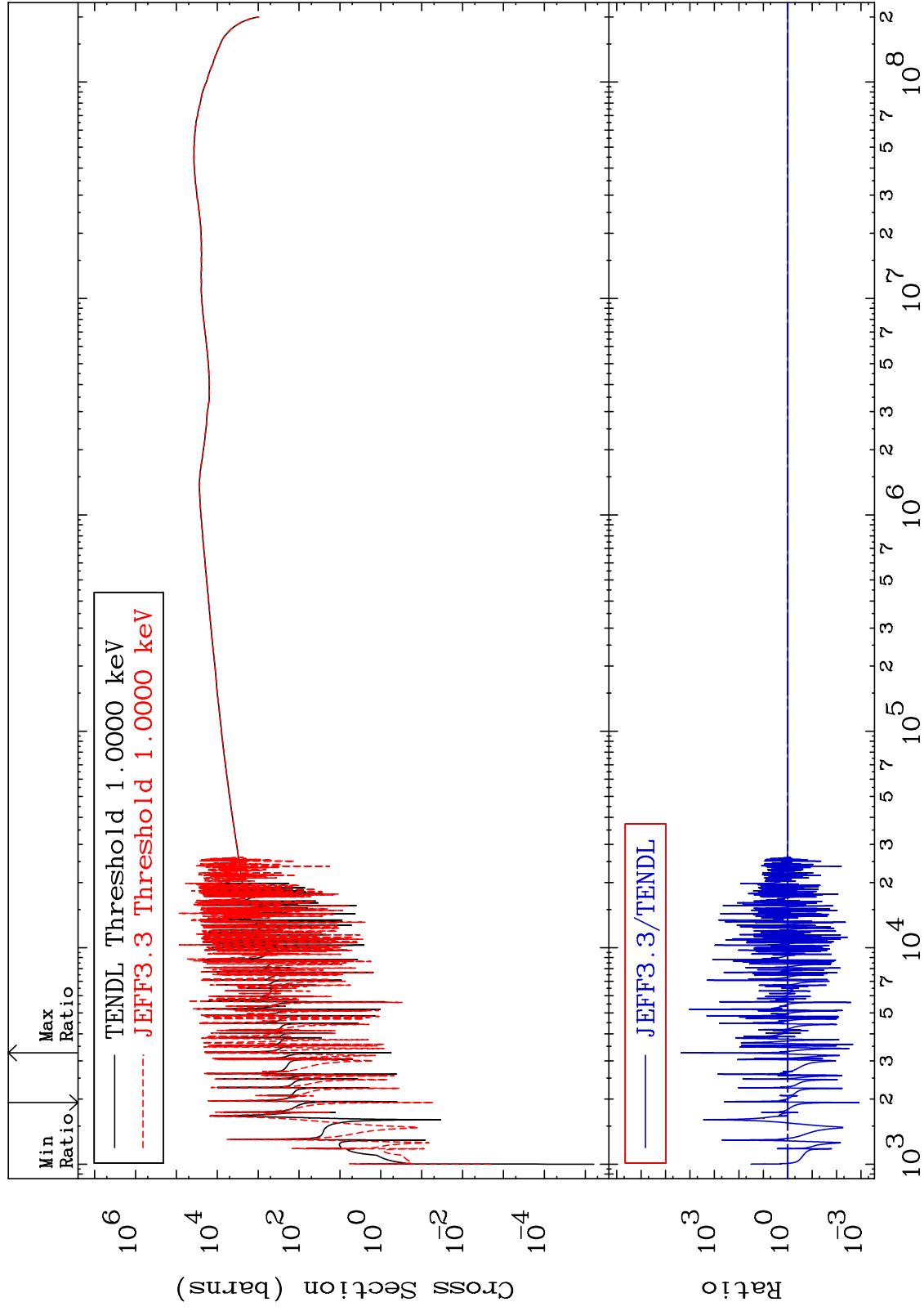
Incident Energy (eV)

70-Yb-174

MAT 7043

Dpa elastic (mt2)
Cross Section

70-Yb-174
-99.88 To 9999. %



71

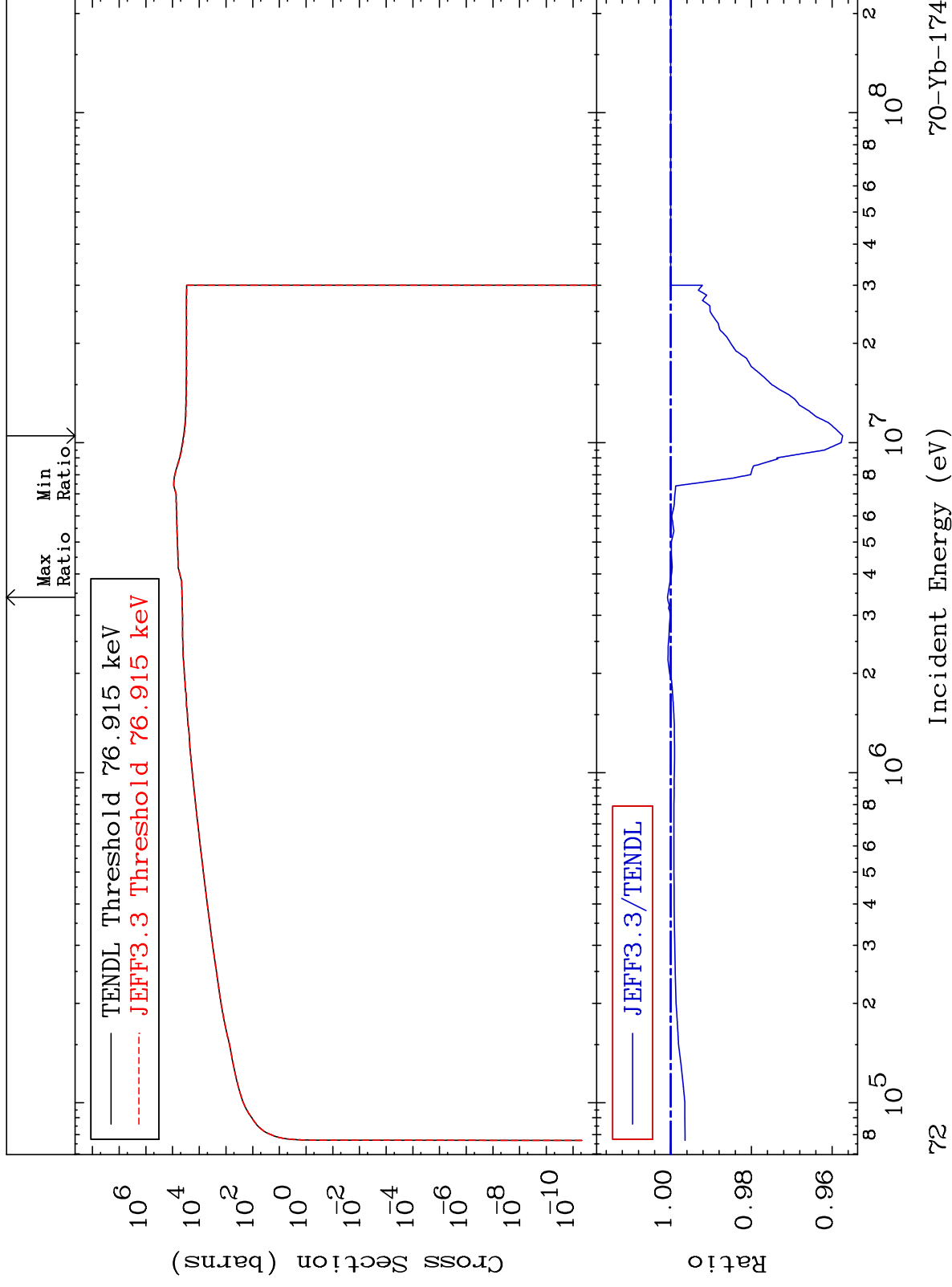
Incident Energy (eV)

70-Yb-174

MAT 7043

Dpa inelastic (mt51-91)
Cross Section

70-Yb-174
-4.264 To 0.080 %



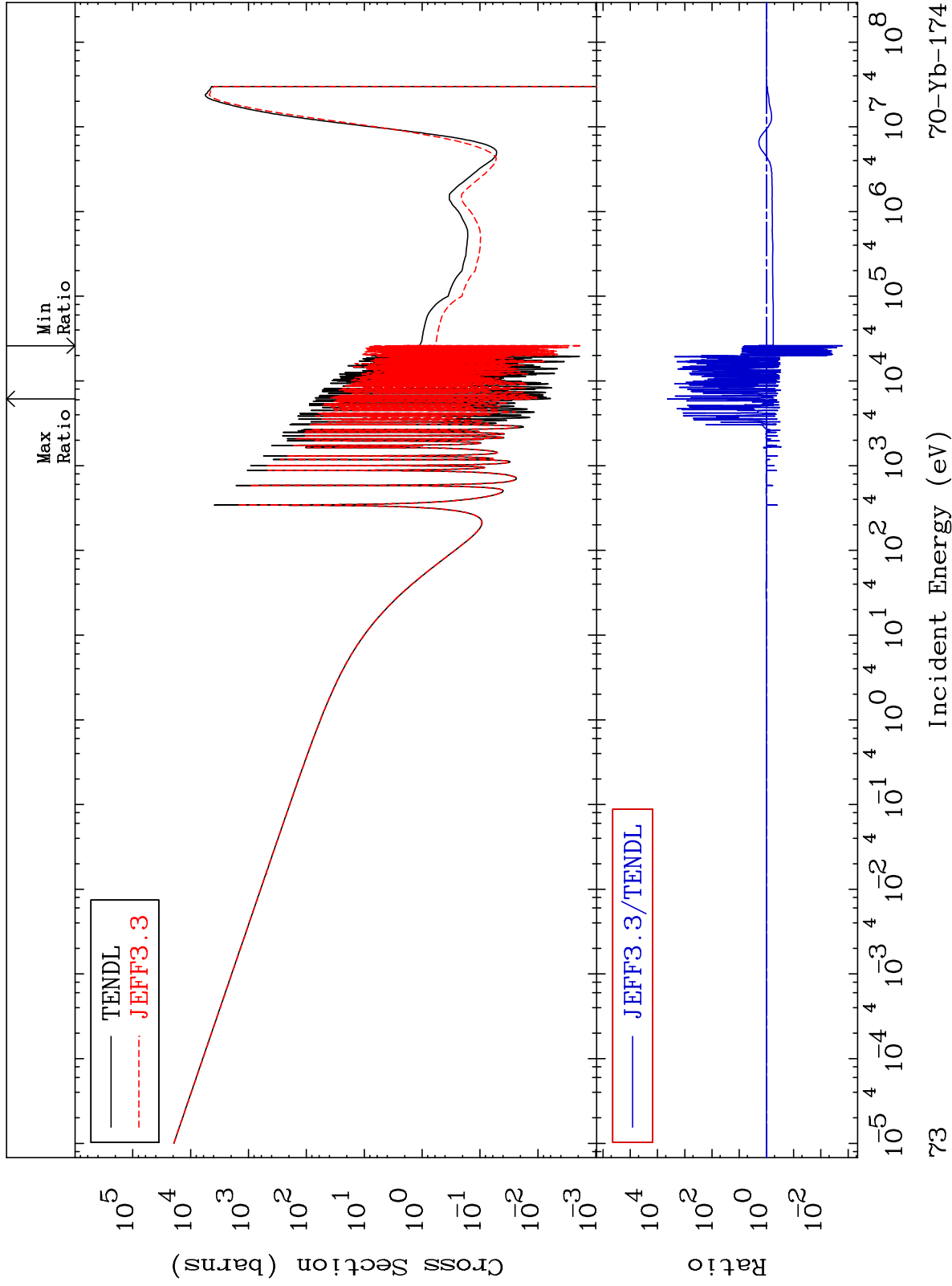
72

70-Yb-174

MAT 7043

Dpa disappearance (mt102 -120)
Cross Section

70-Yb-174
-99.84 To 9999. %



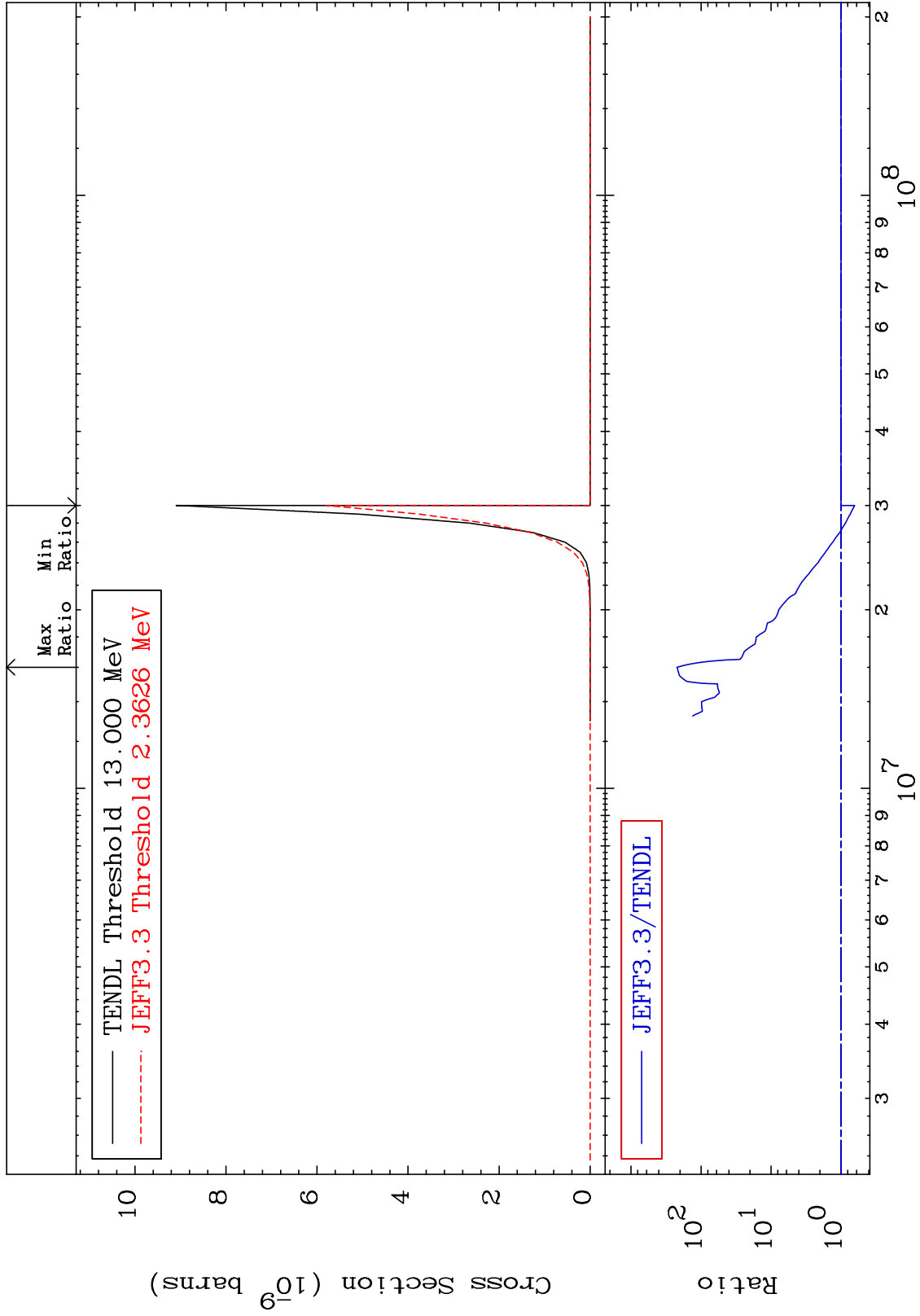
73

70-Yb-174

MAT 7043

(n, p) α : 67-Ho-170g
Radionuclide Production Cross Section -36.29 To 9999. %

70-Yb-174

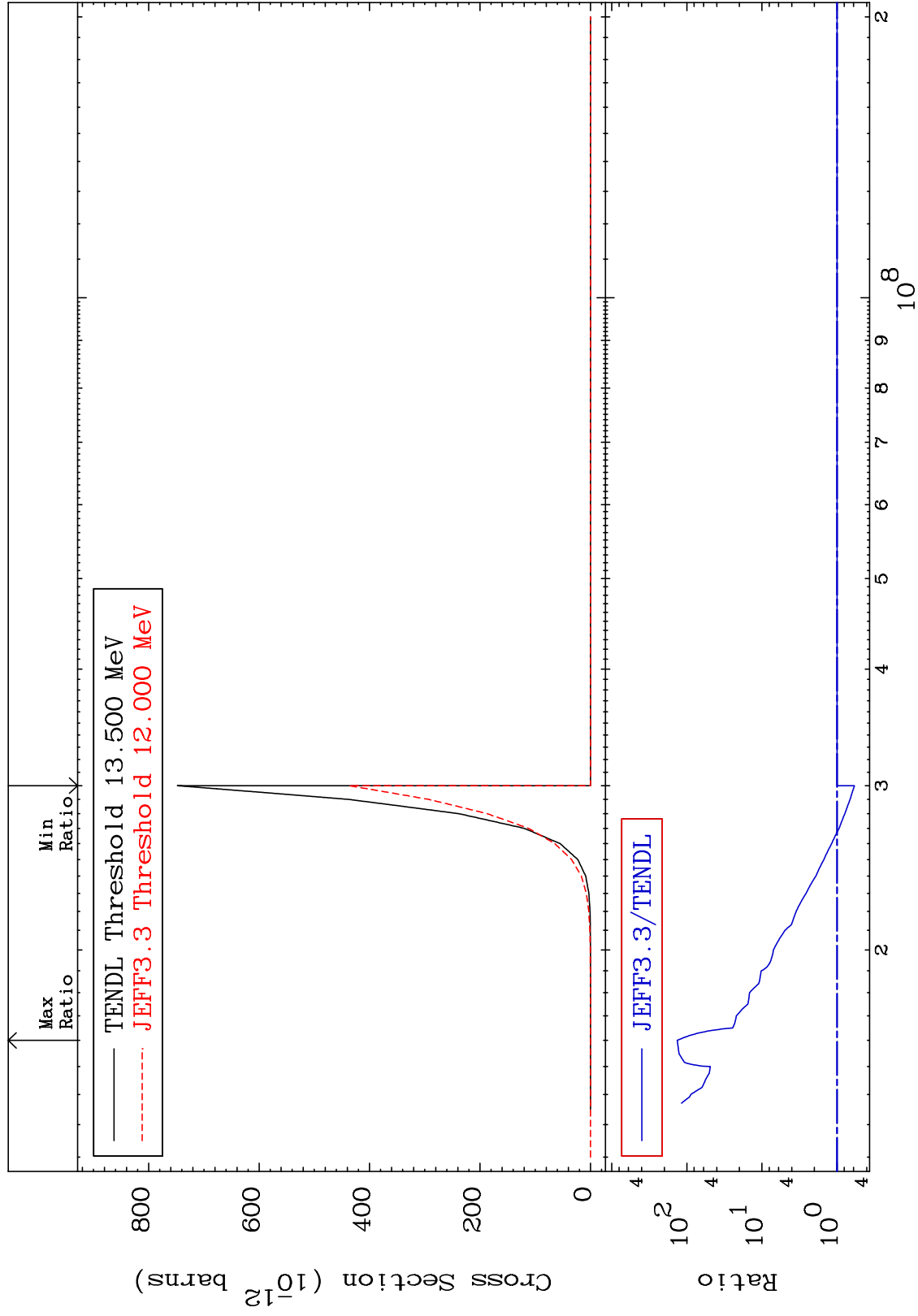


MAT 7043

(n, p) α :67-Ho-170m1

70-Yb-174

Radionuclide Production Cross Section -41.52 To 9999. %



75

Incident Energy (eV)

70-Yb-174