

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

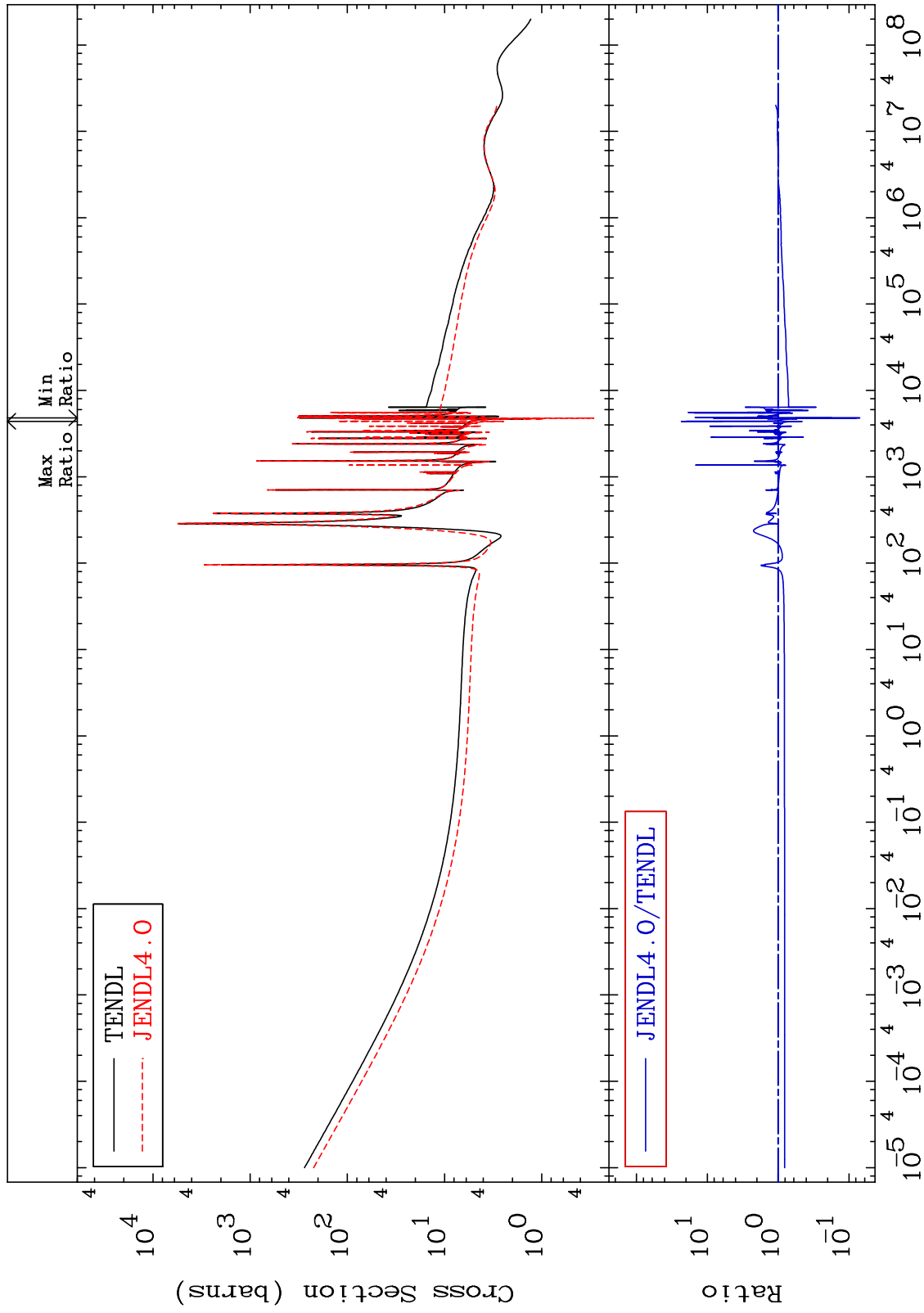
MAT 3131

Total

31-Ga-71

Cross Section

-92.96 To 2234. %



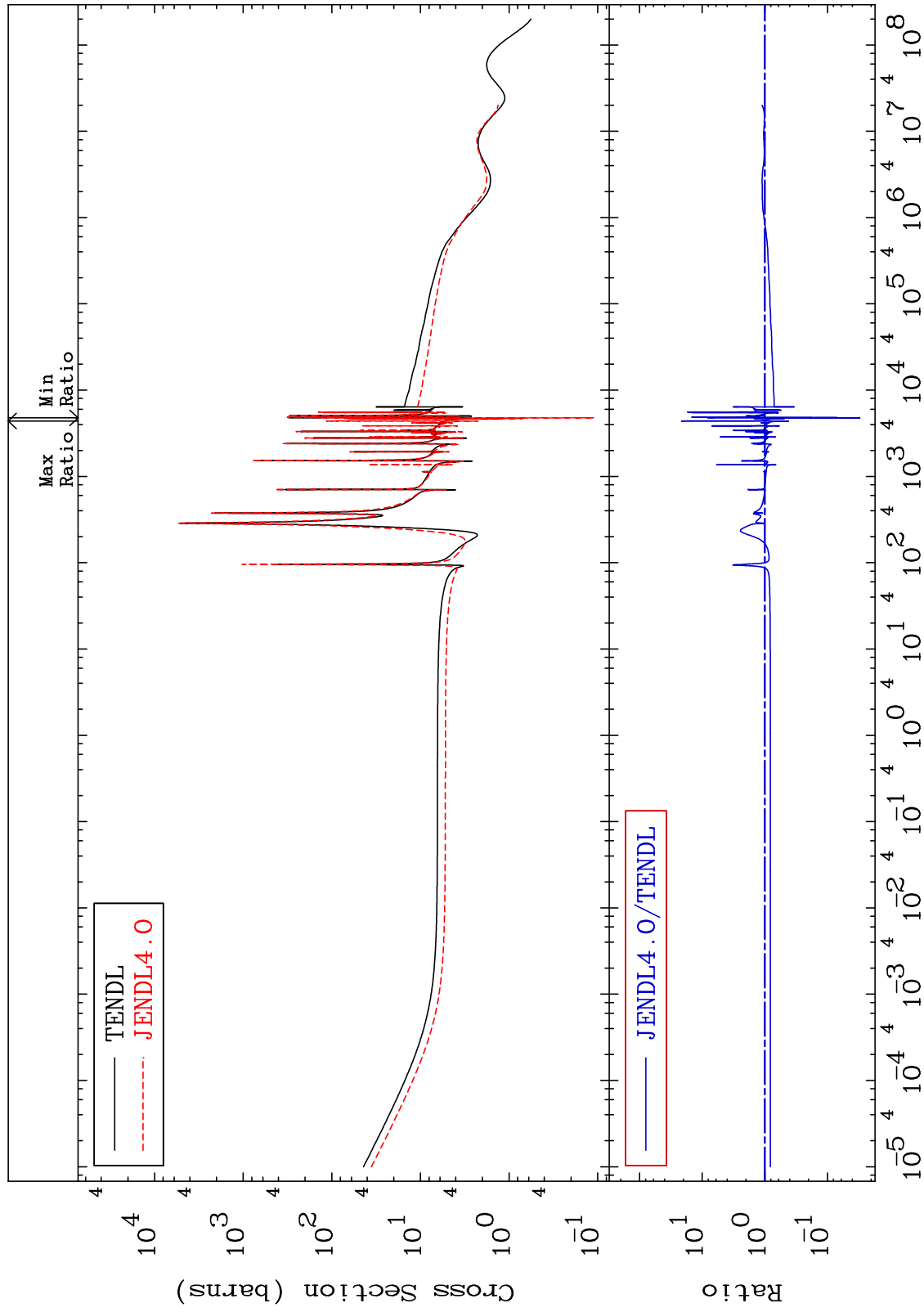
Incident Energy (eV)

31-Ga-71

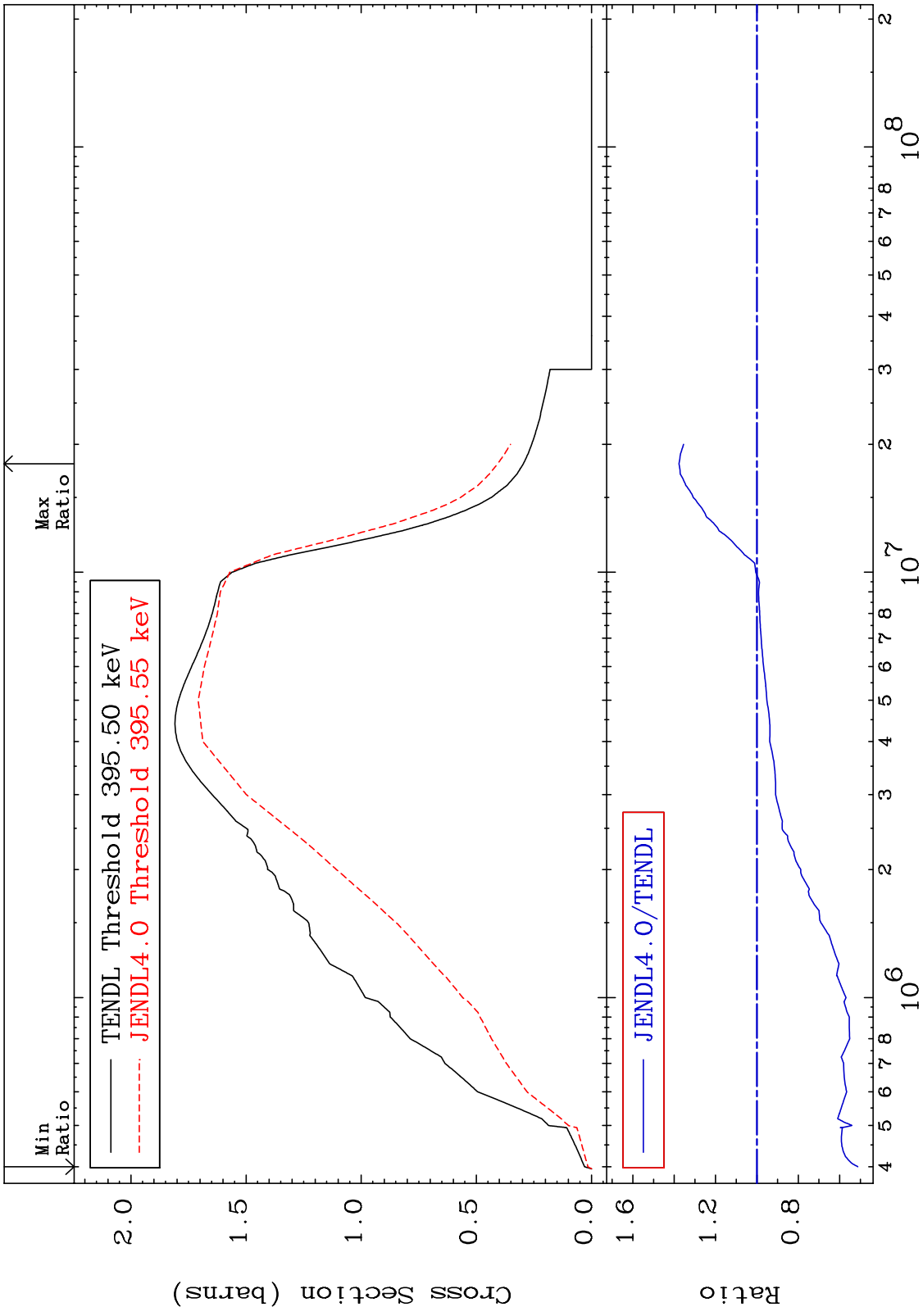
MAT 3131

Elastic
Cross Section

31-Ga-71
-96.97 To 2046. %

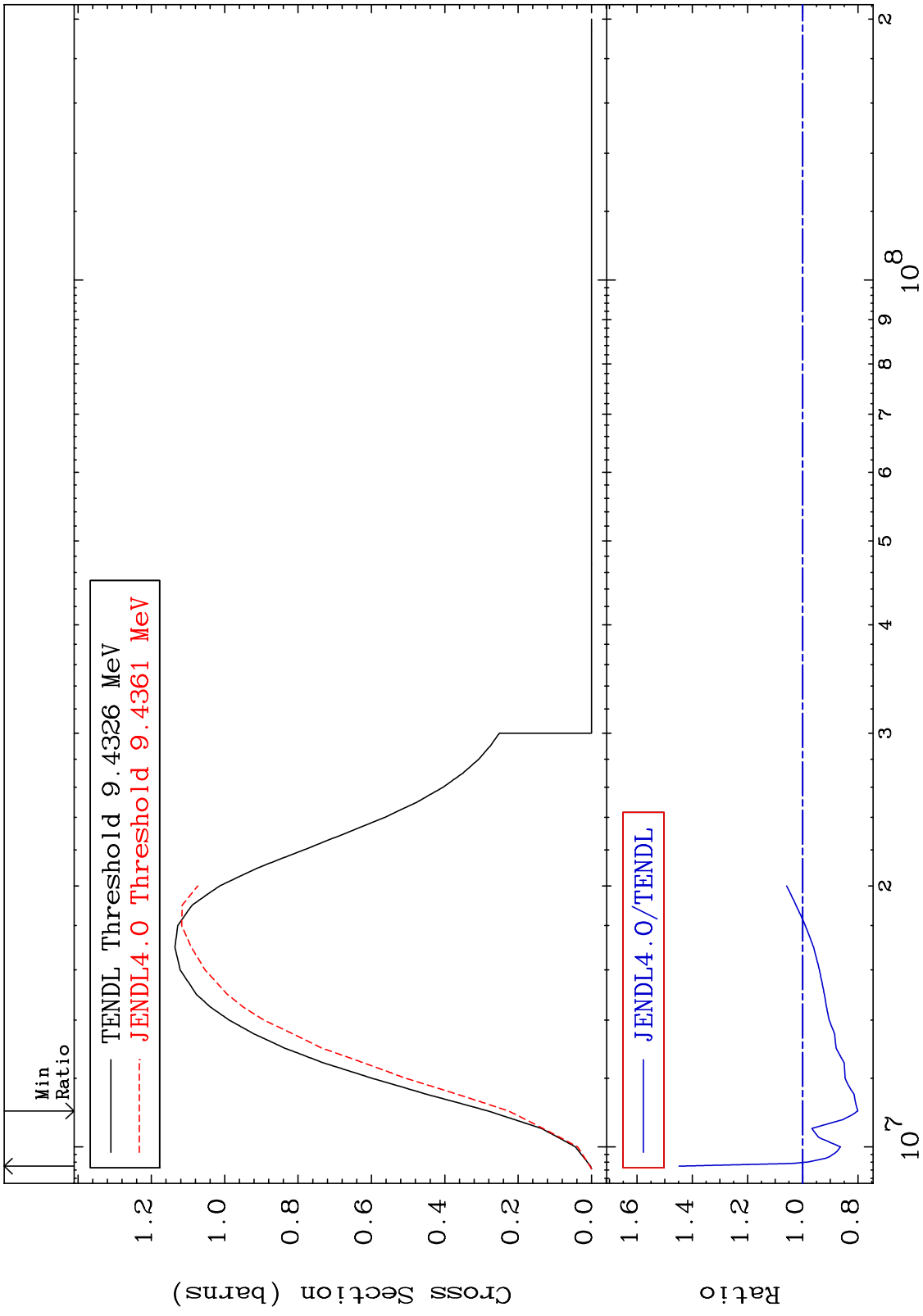


MAT 3131 Inelastic Cross Section 31-Ga-71 -48.80 To 37.66 %



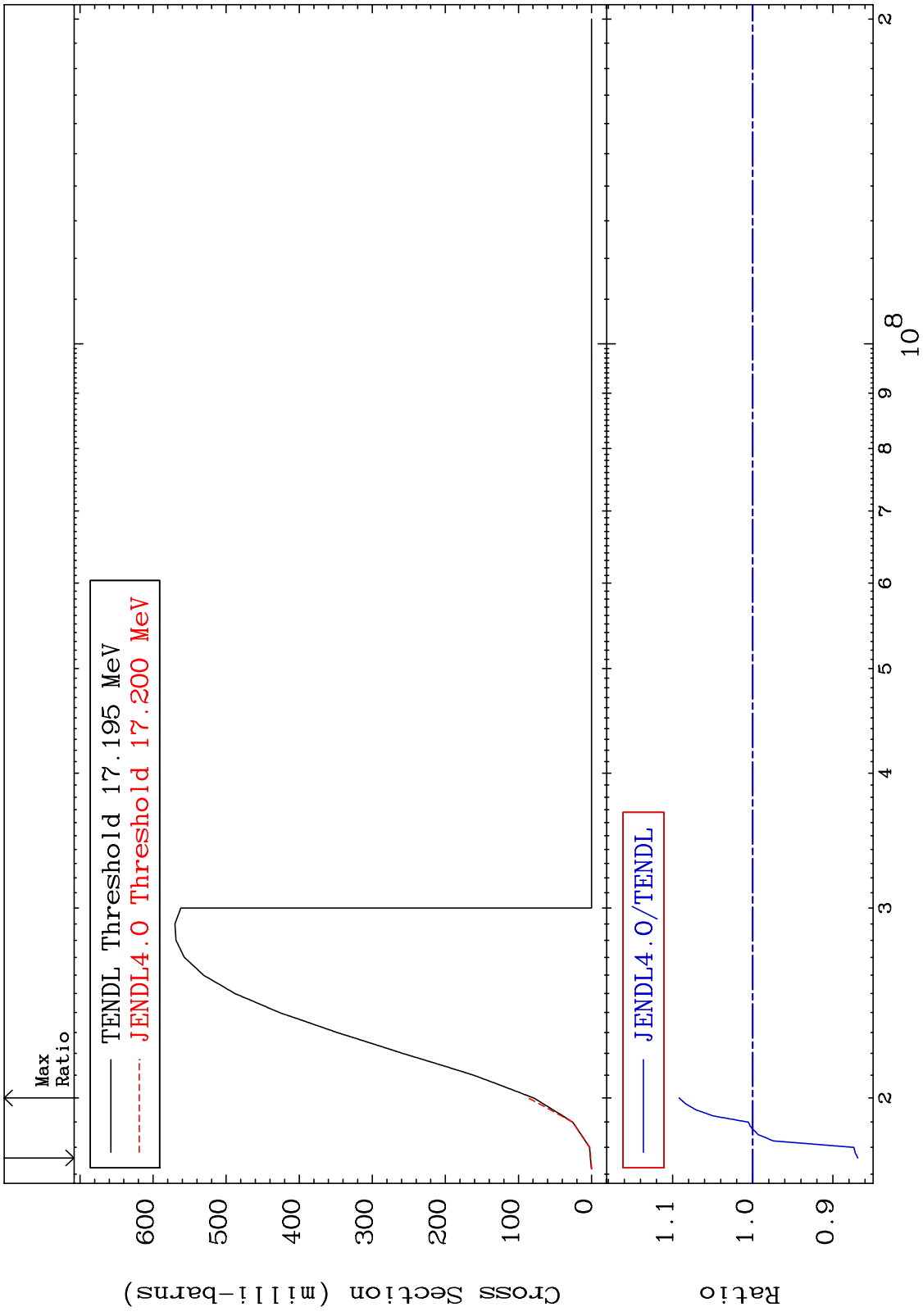
3 31-Ga-71

MAT 3131 (n,2n) Cross Section 31-Ga-71 -19.95 To 44.80 %

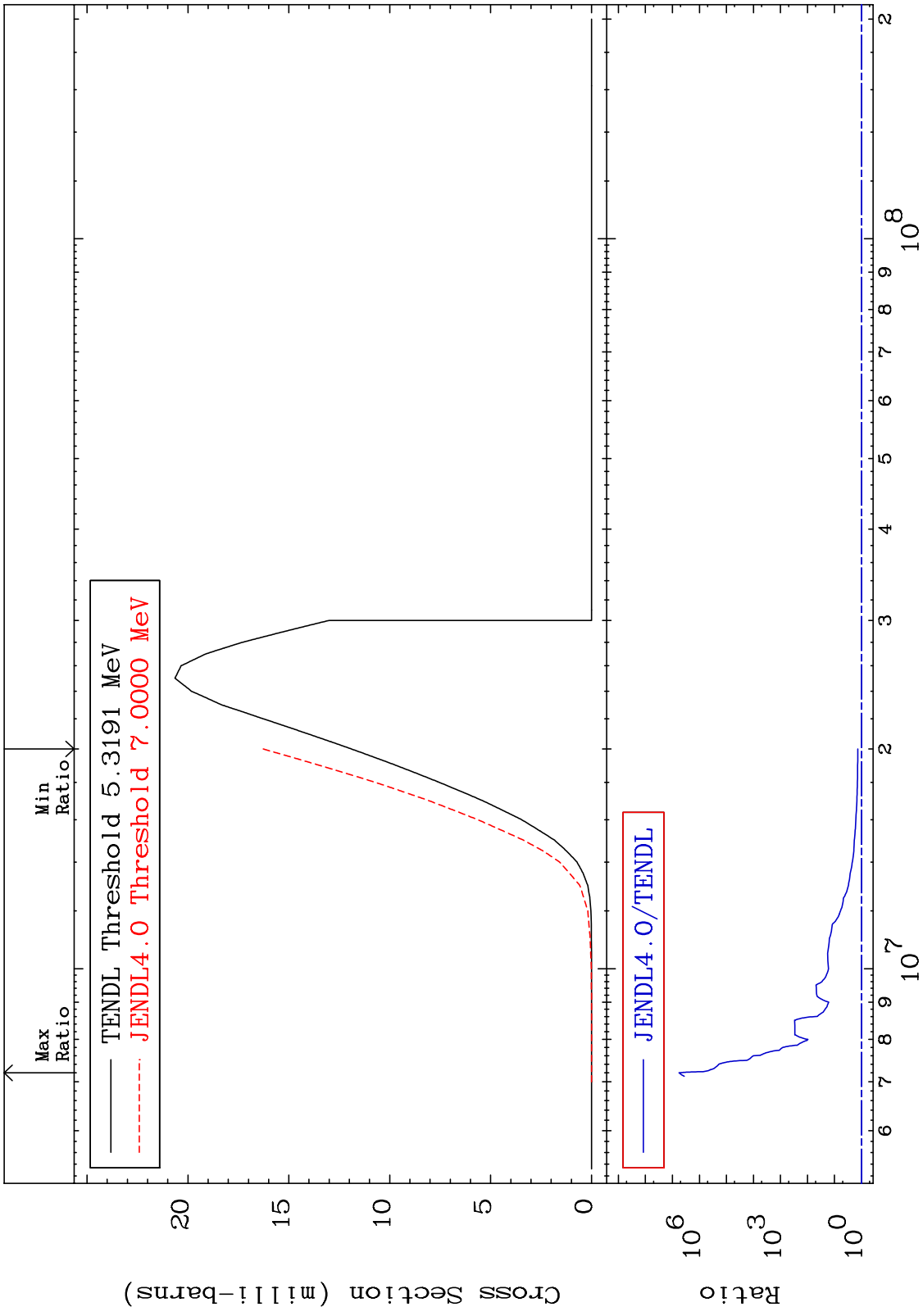


4 31-Ga-71

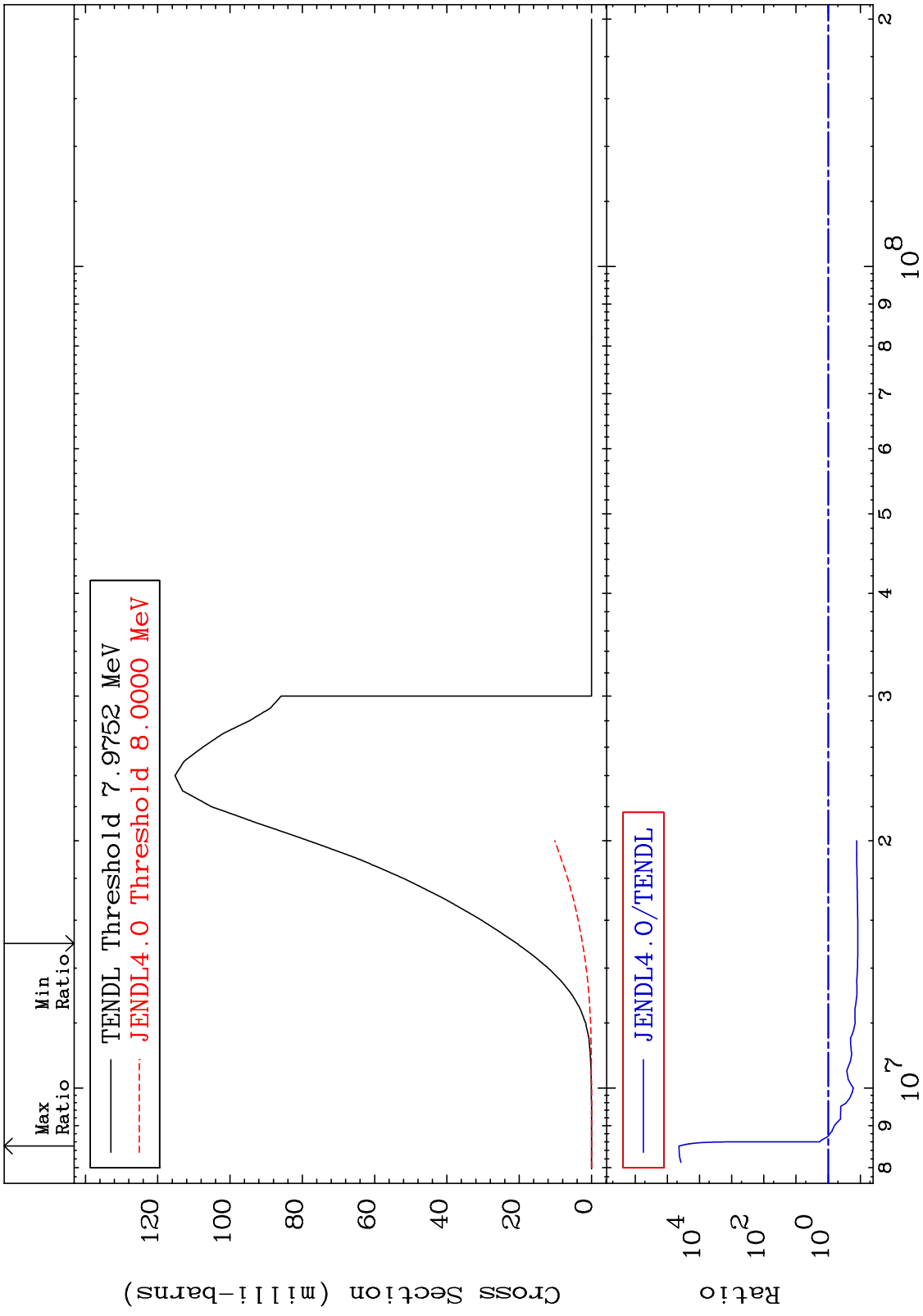
MAT 3131 (n,3n) 31-Ga-71
 Cross Section -13.10 To 9.189 %



MAT 3131 $(n, n') \alpha$ 31-Ga-71
 Cross Section 36.83 To 9999. %

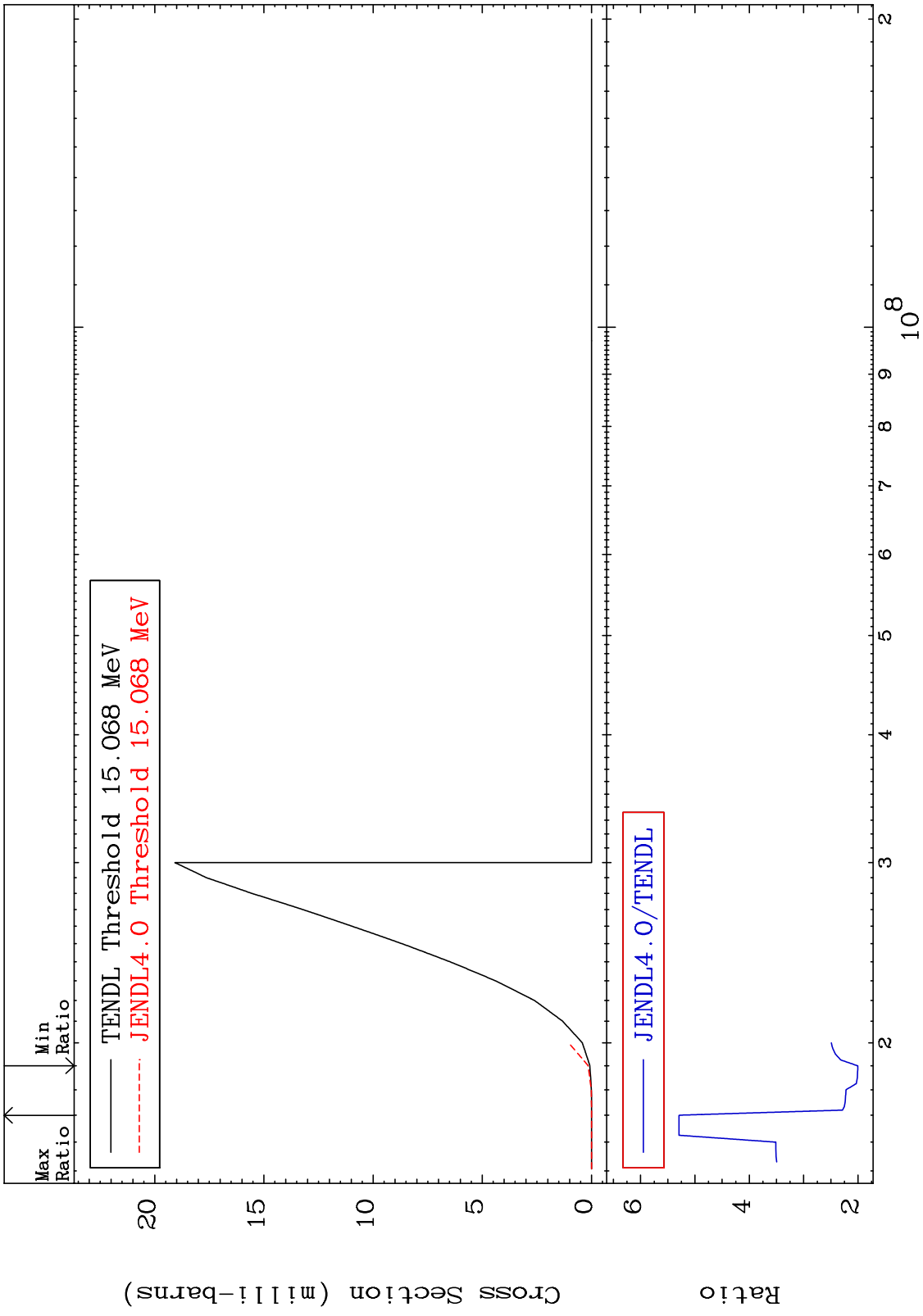


MAT 3131 (n,n') p 31-Ga-71
 Cross Section -88.03 To 9999. %



7 8 9 10⁷ 10⁸ 2
 31-Ga-71

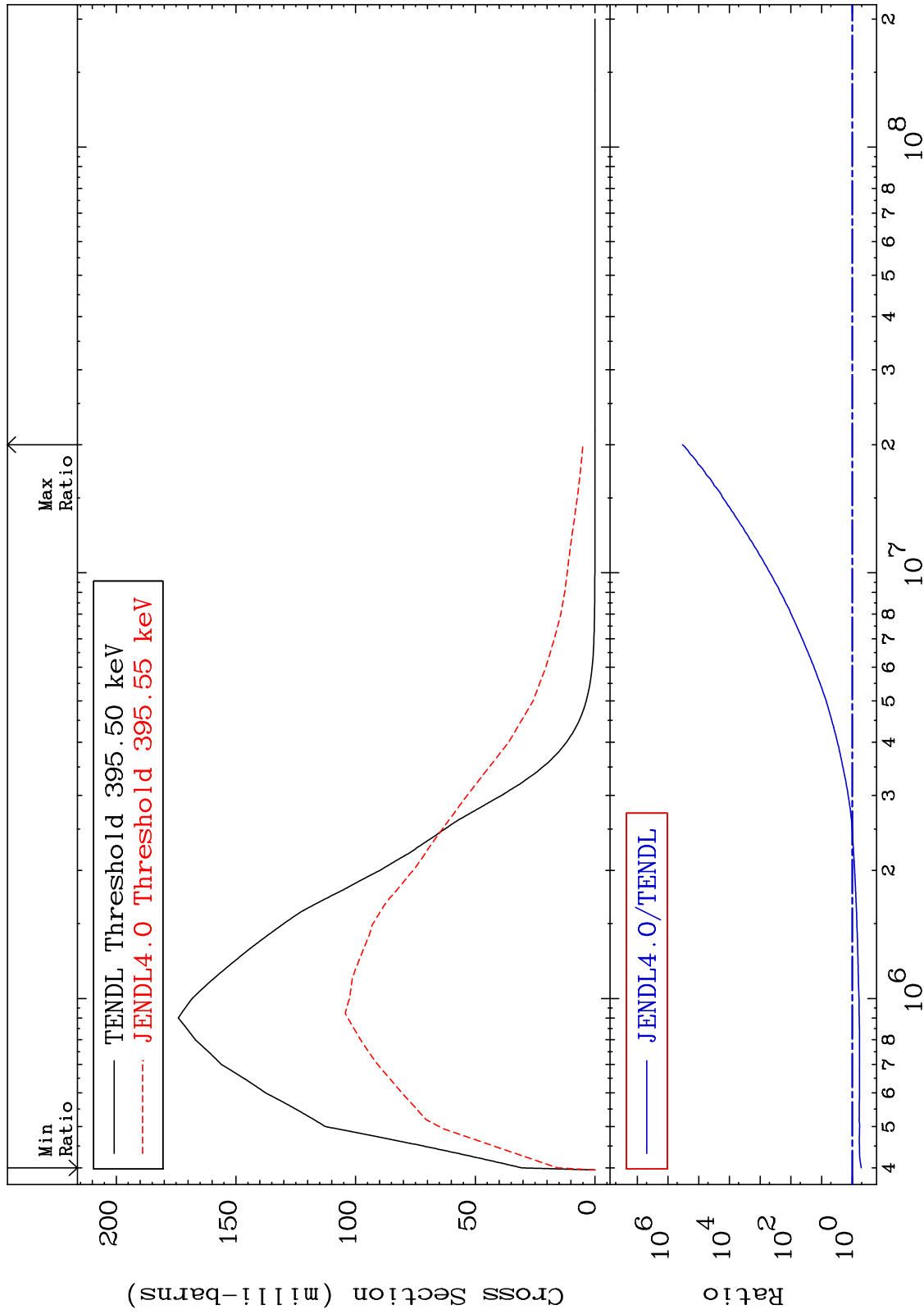
MAT 3131 (n,n') d 31-Ga-71
 Cross Section 100.3 To 429.3 %



MAT 3131

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

31-Ga-71
-48.80 To 9999. %

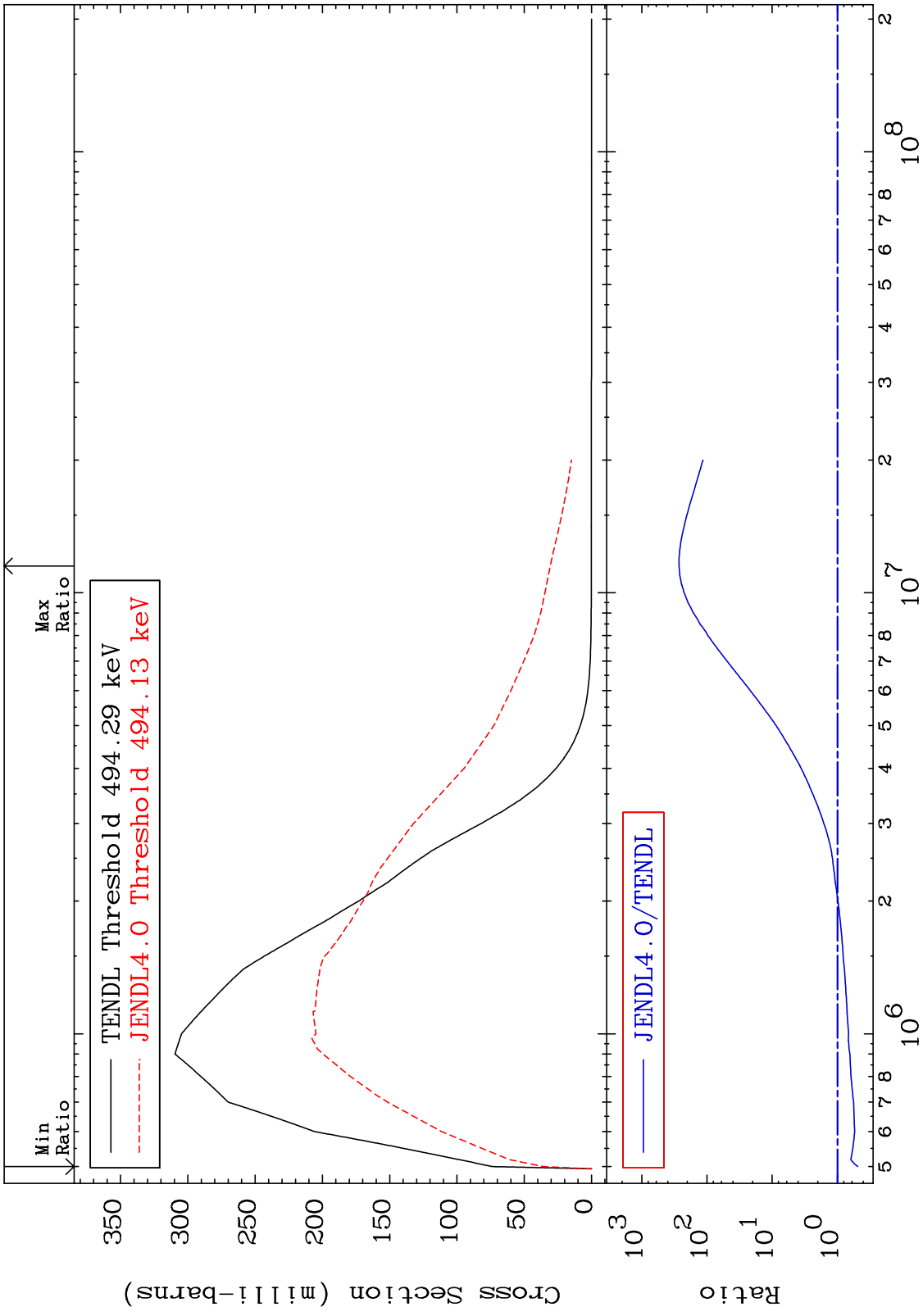


9

Incident Energy (eV)

31-Ga-71

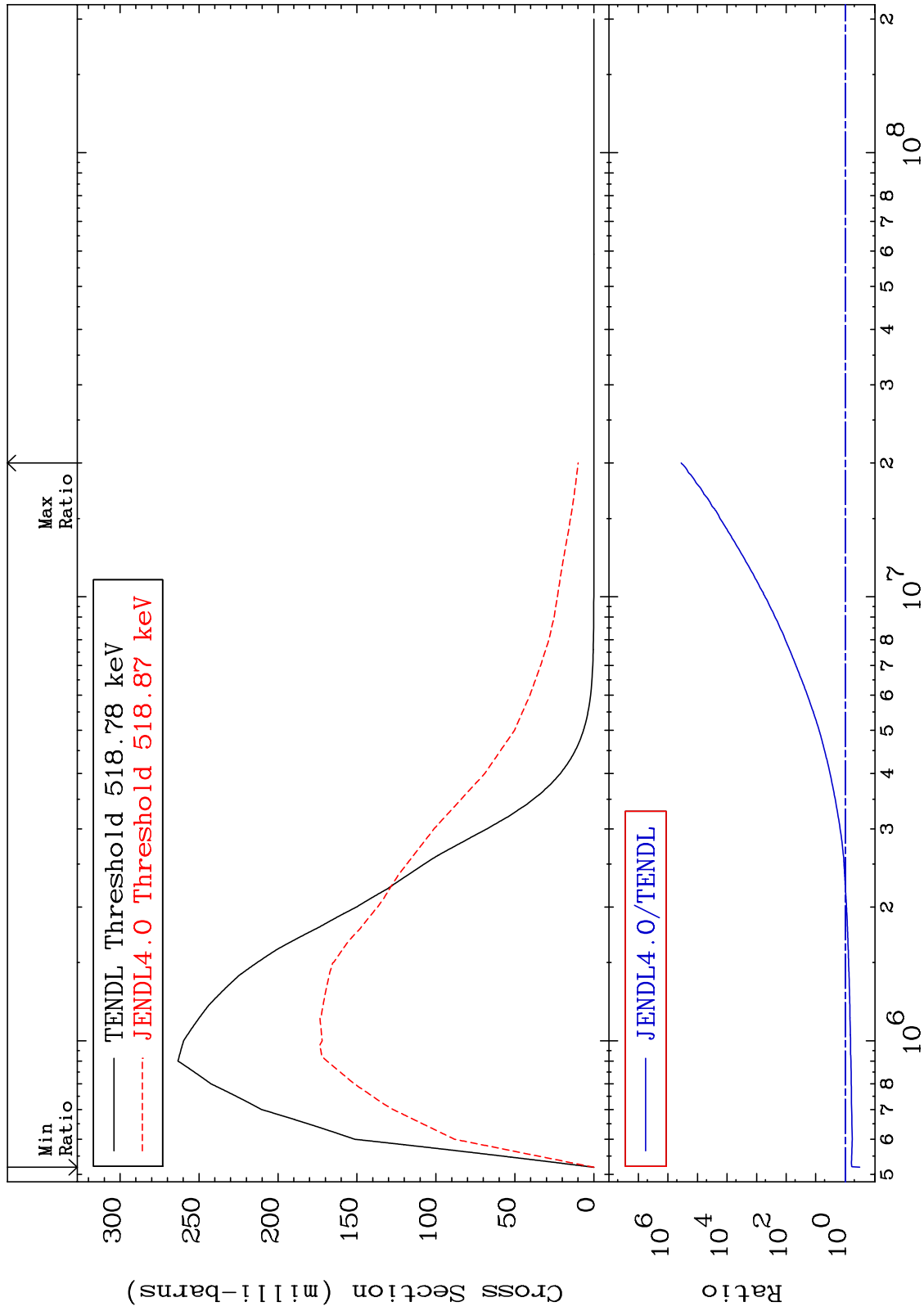
MAT 3131 MT= 52 (n,n') Level 31-Ga-71
 Cross Section -51.45 To 9999. %



MAT 3131

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

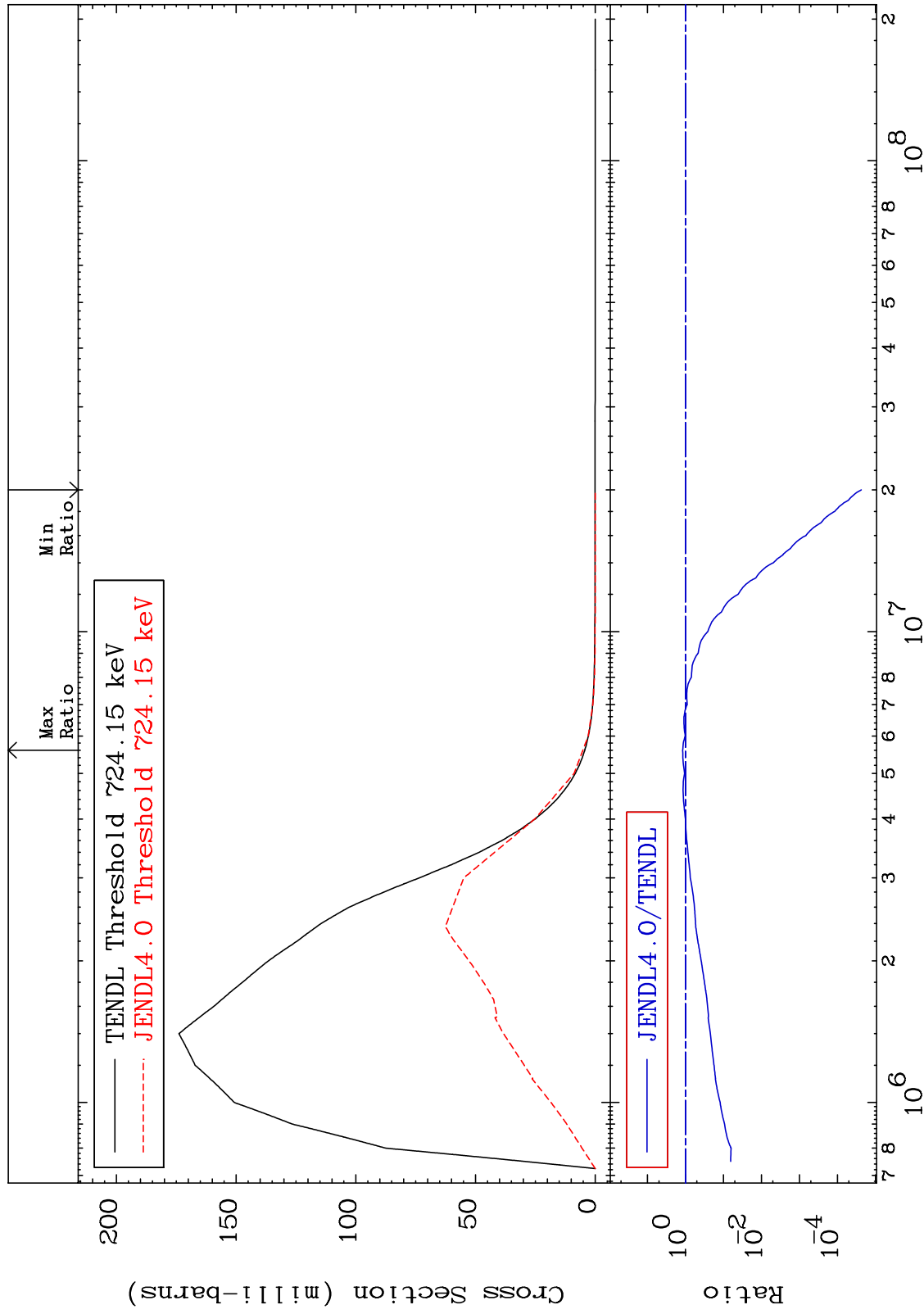
31-Ga-71
-67.67 To 9999. %



MAT 3131

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

31-Ga-71
-100.0 To 18.52 %

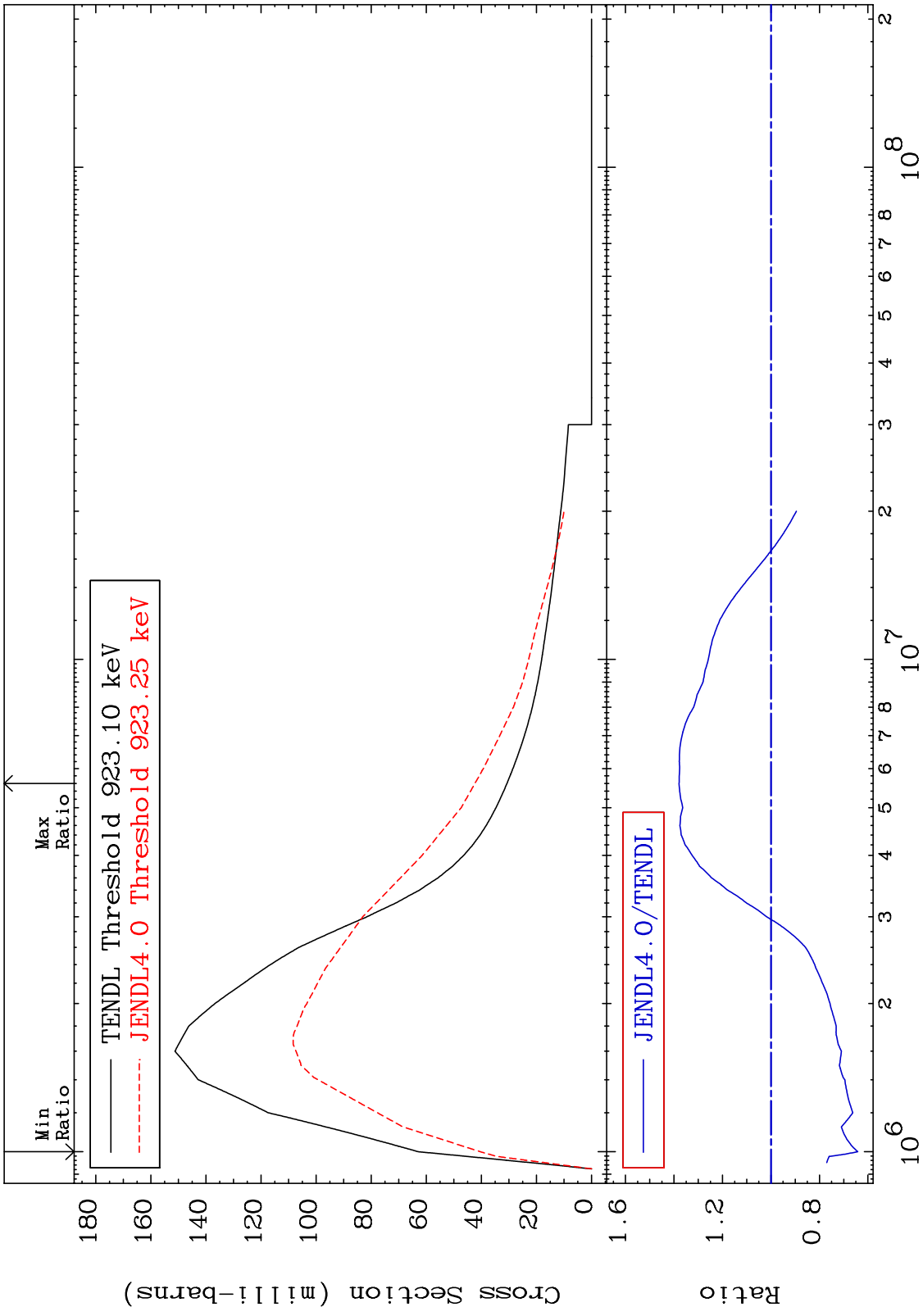


12

Incident Energy (eV)

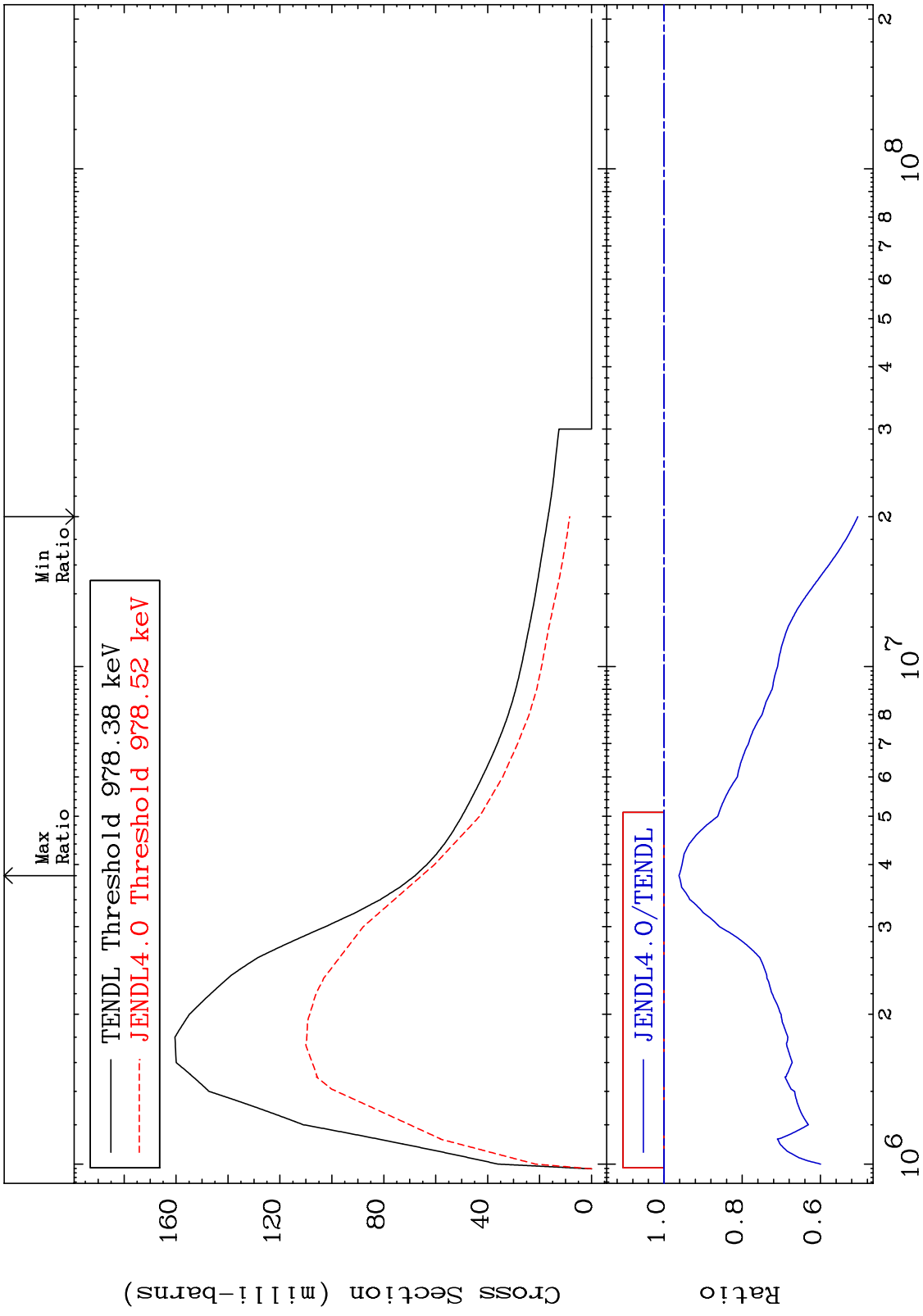
31-Ga-71

MAT 3131 MT= 55 (n,n') Level Cross Section 31-Ga-71 -35.83 To 37.92 %



13 31-Ga-71

MAT 3131 MT= 56 (n,n') Level Cross Section 31-Ga-71 -49.57 To -3.829%

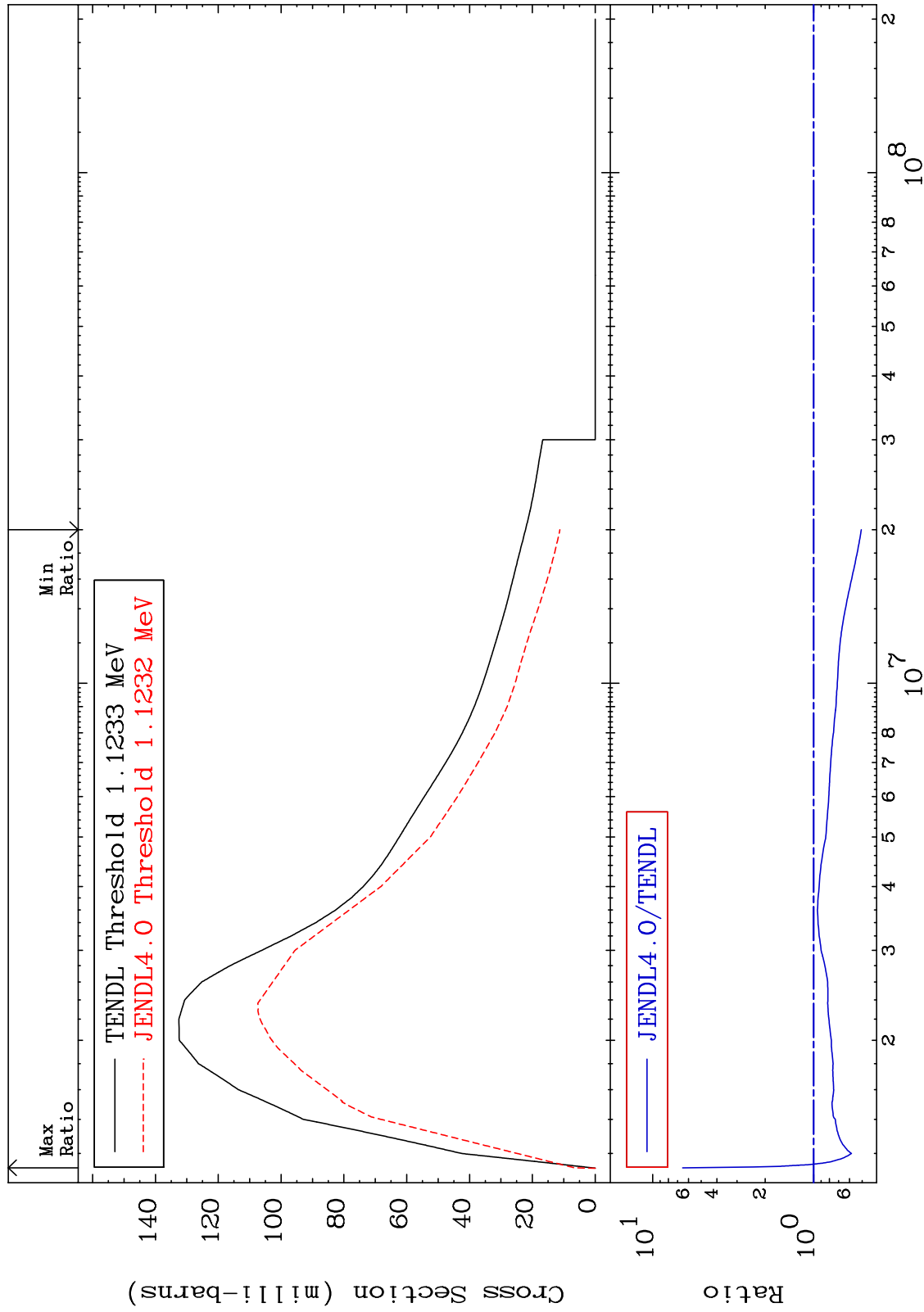


Incident Energy (eV) 31-Ga-71

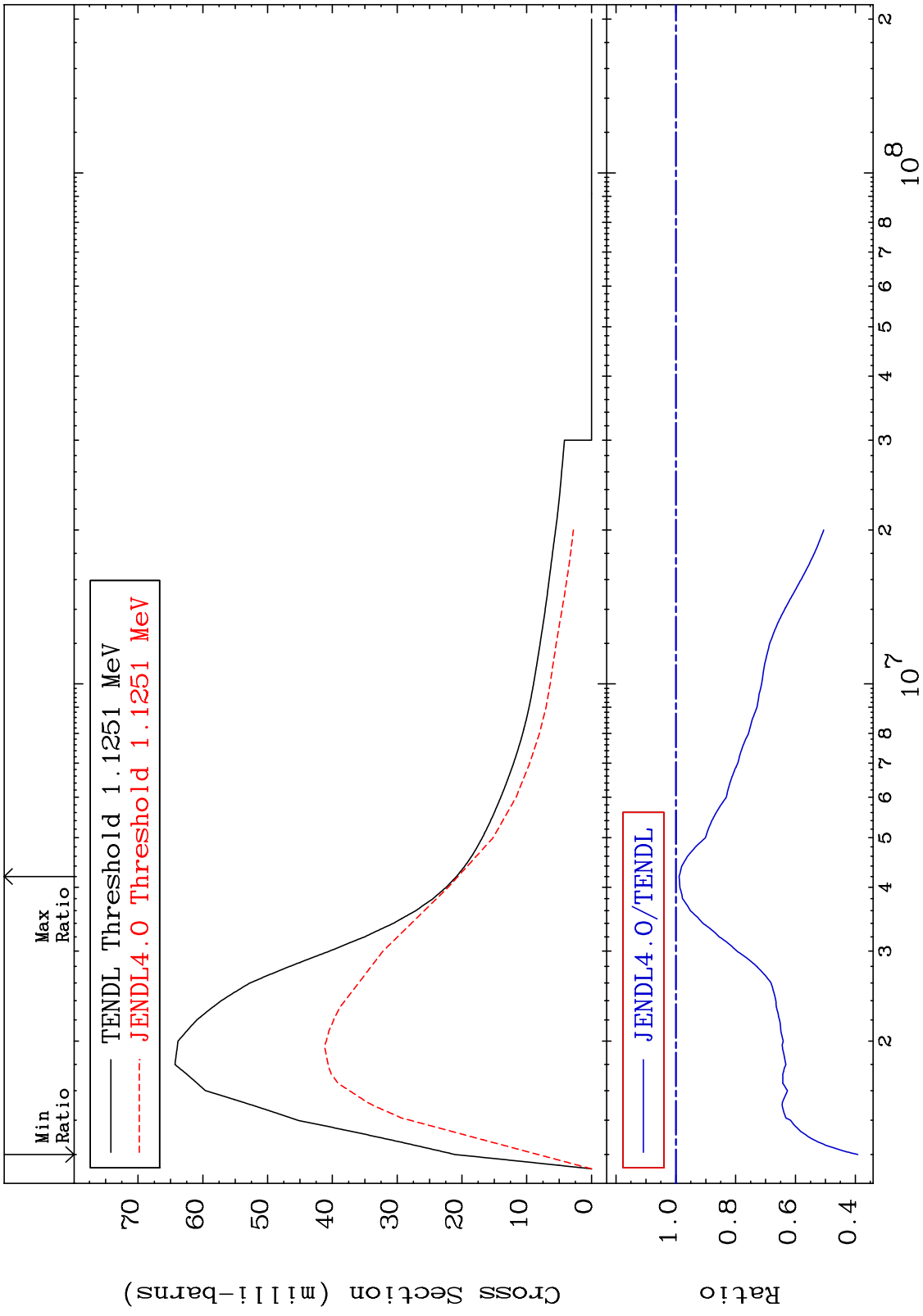
MAT 3131

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

31-Ga-71
-49.39 To 551.7 %



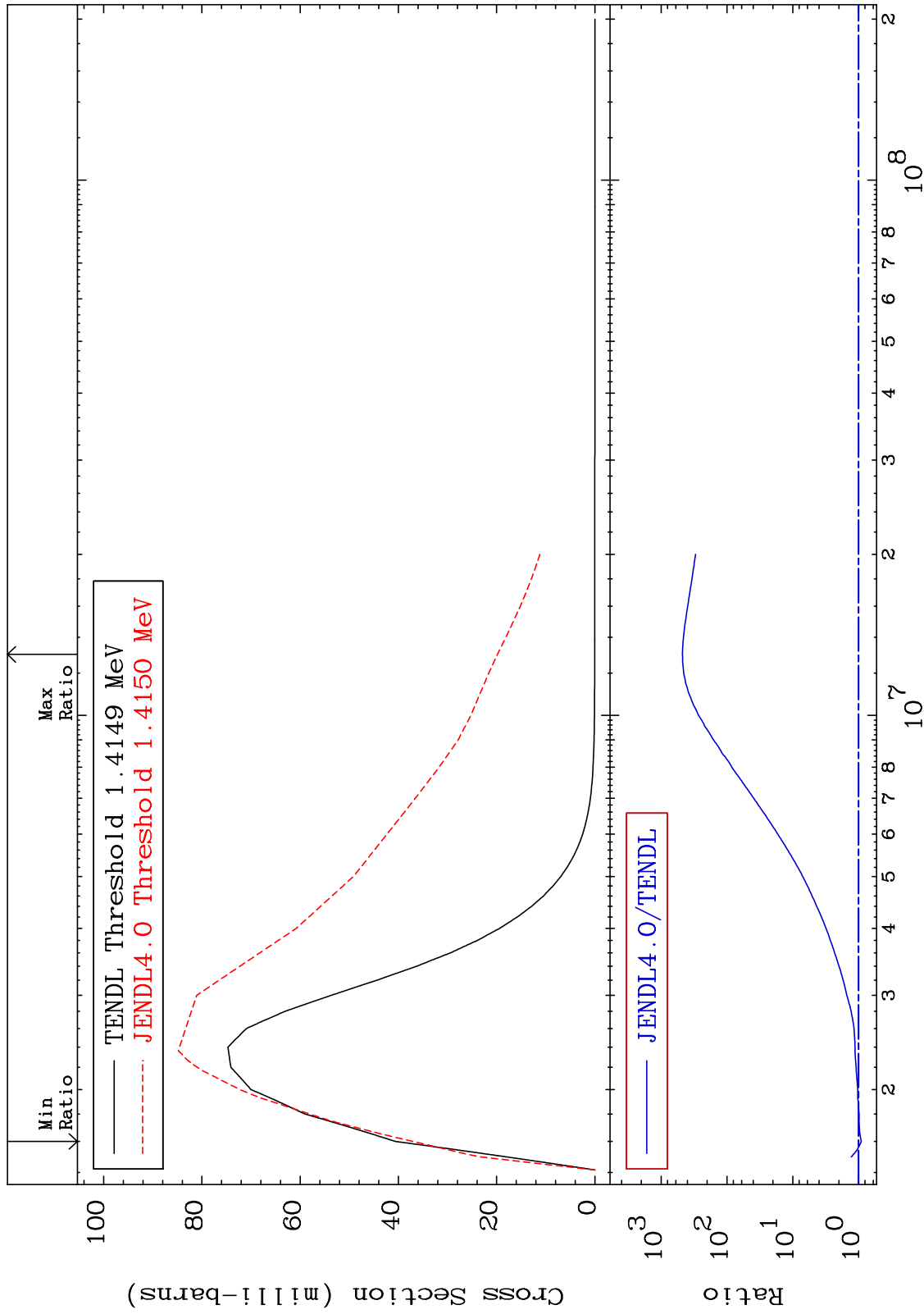
MAT 3131 MT= 58 (n,n') Level Cross Section 31-Ga-71 -60.83 To -1.068%



MAT 3131

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

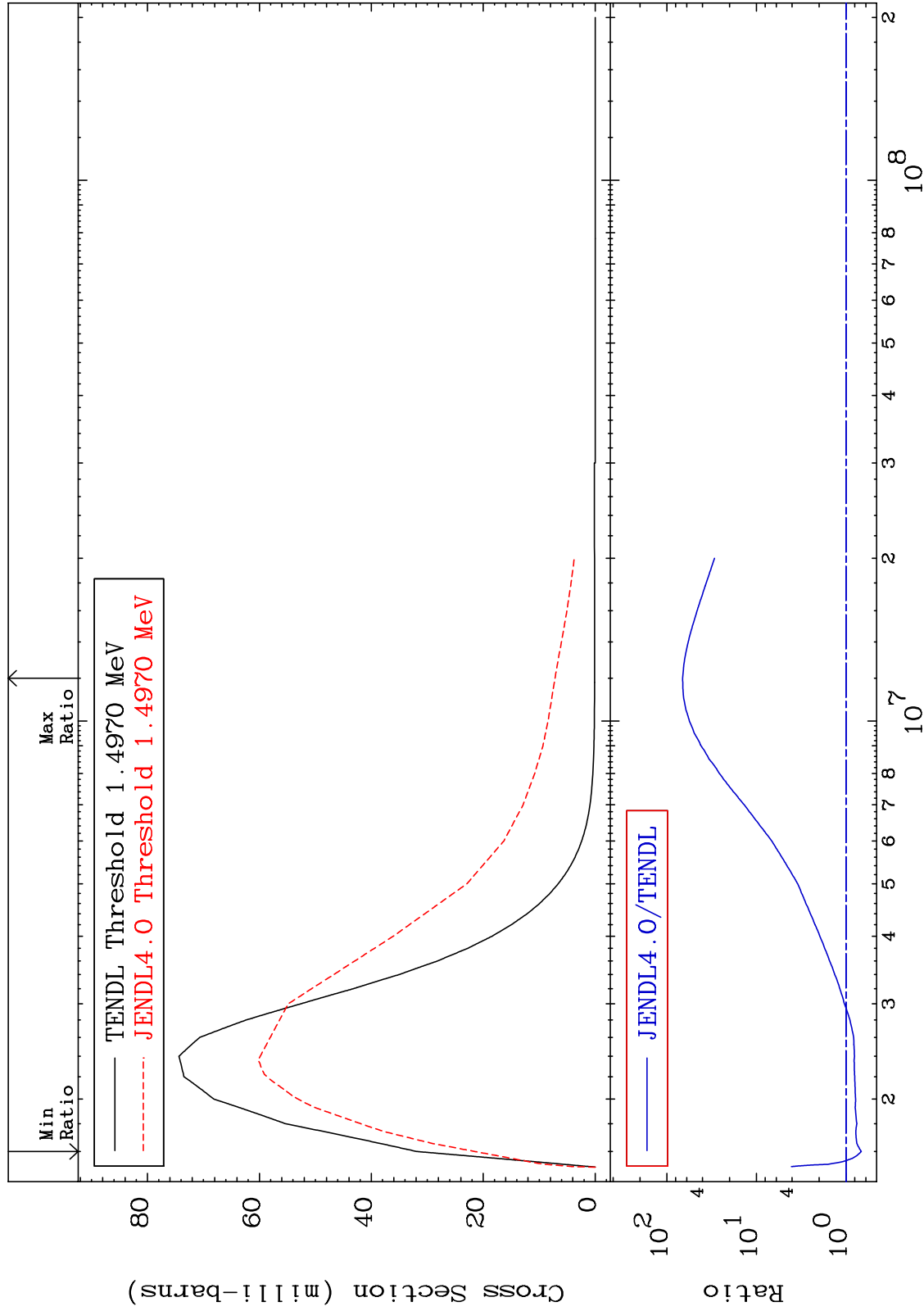
31-Ga-71
-8.784 To 9999. %



MAT 3131

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

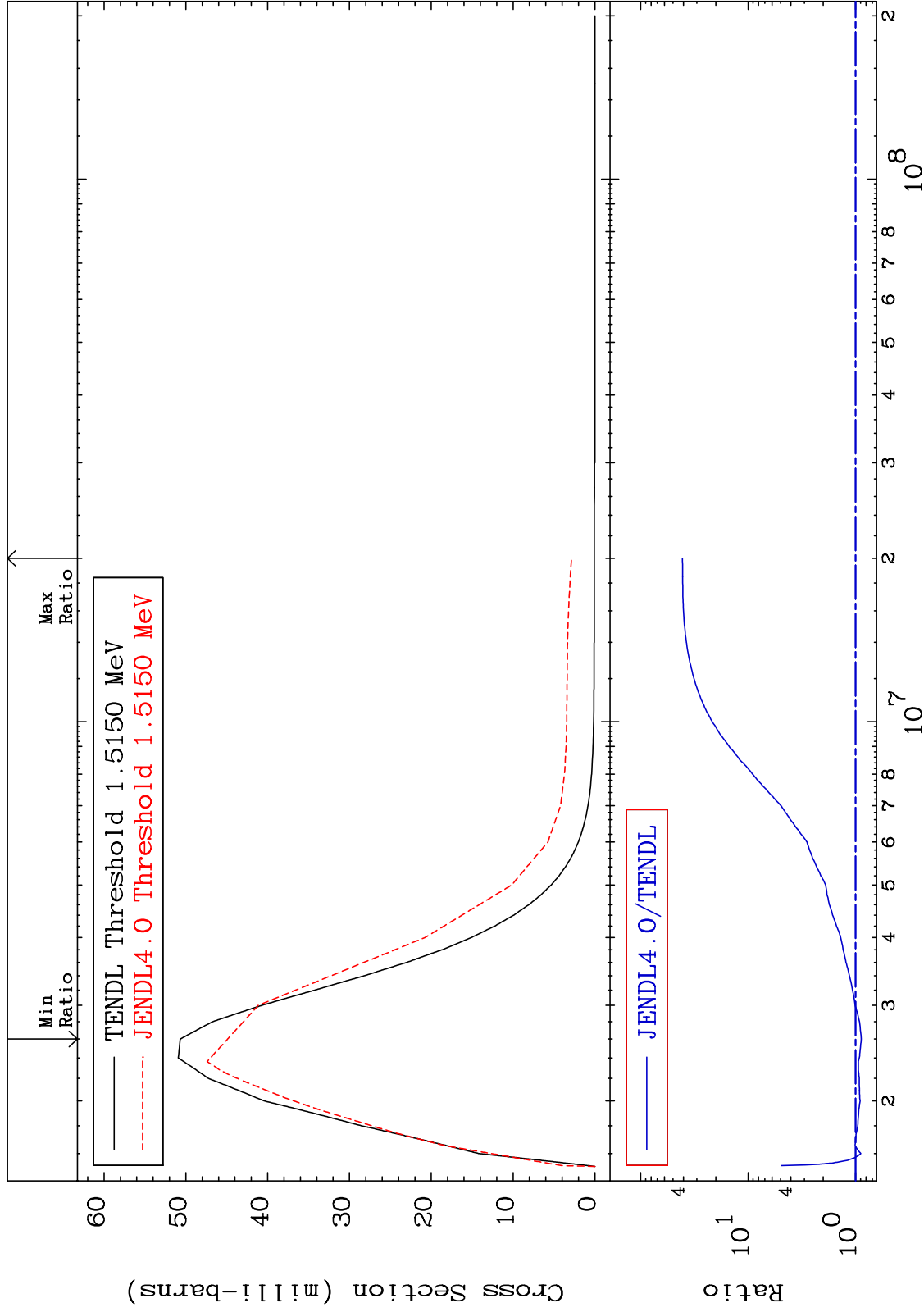
31-Ga-71
-32.61 To 6575. %



MAT 3131

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

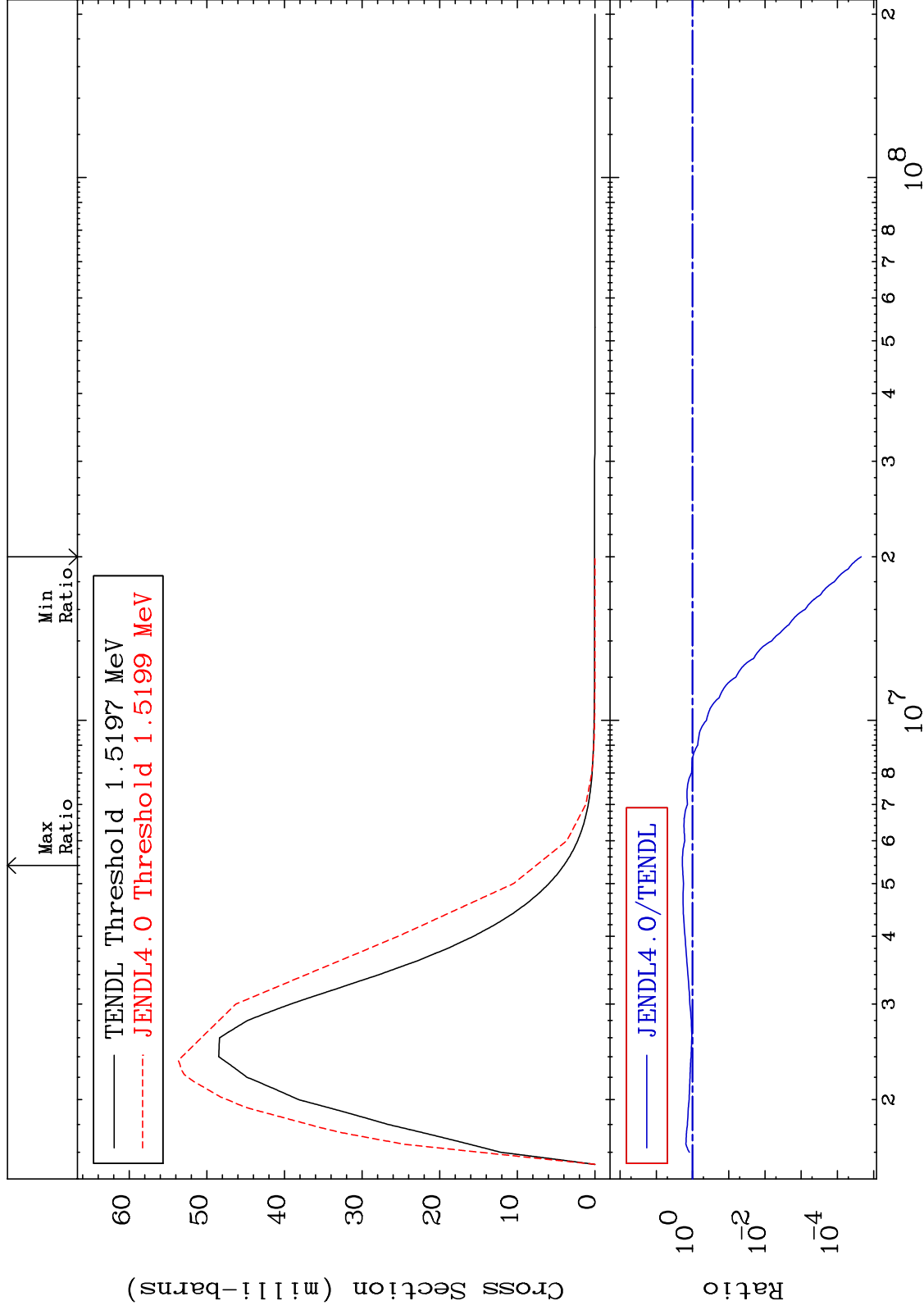
31-Ga-71
-11.40 To 3985. %



MAT 3131

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

31-Ga-71
-100.0 To 89.62 %



20

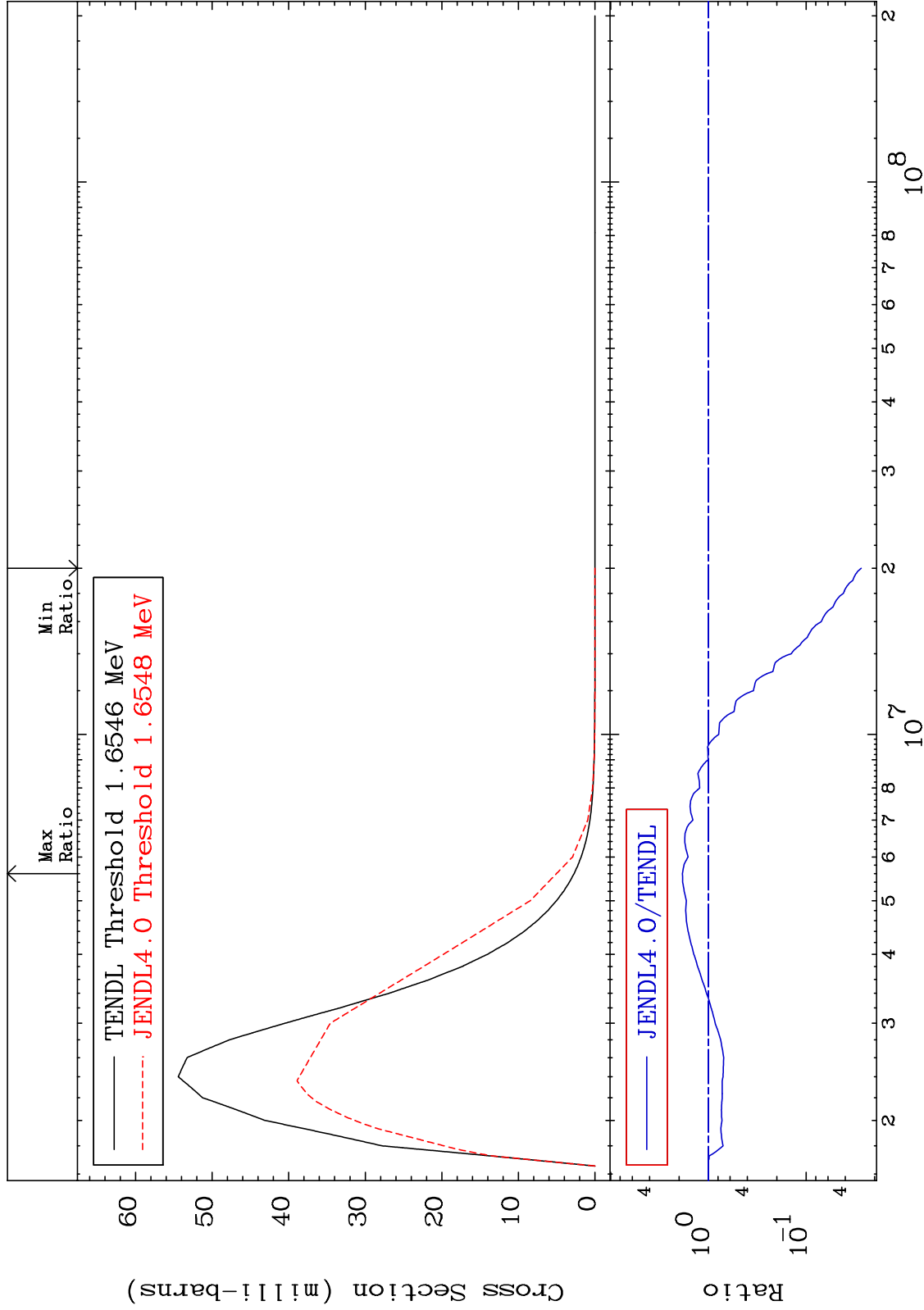
Incident Energy (eV)

31-Ga-71

MAT 3131

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

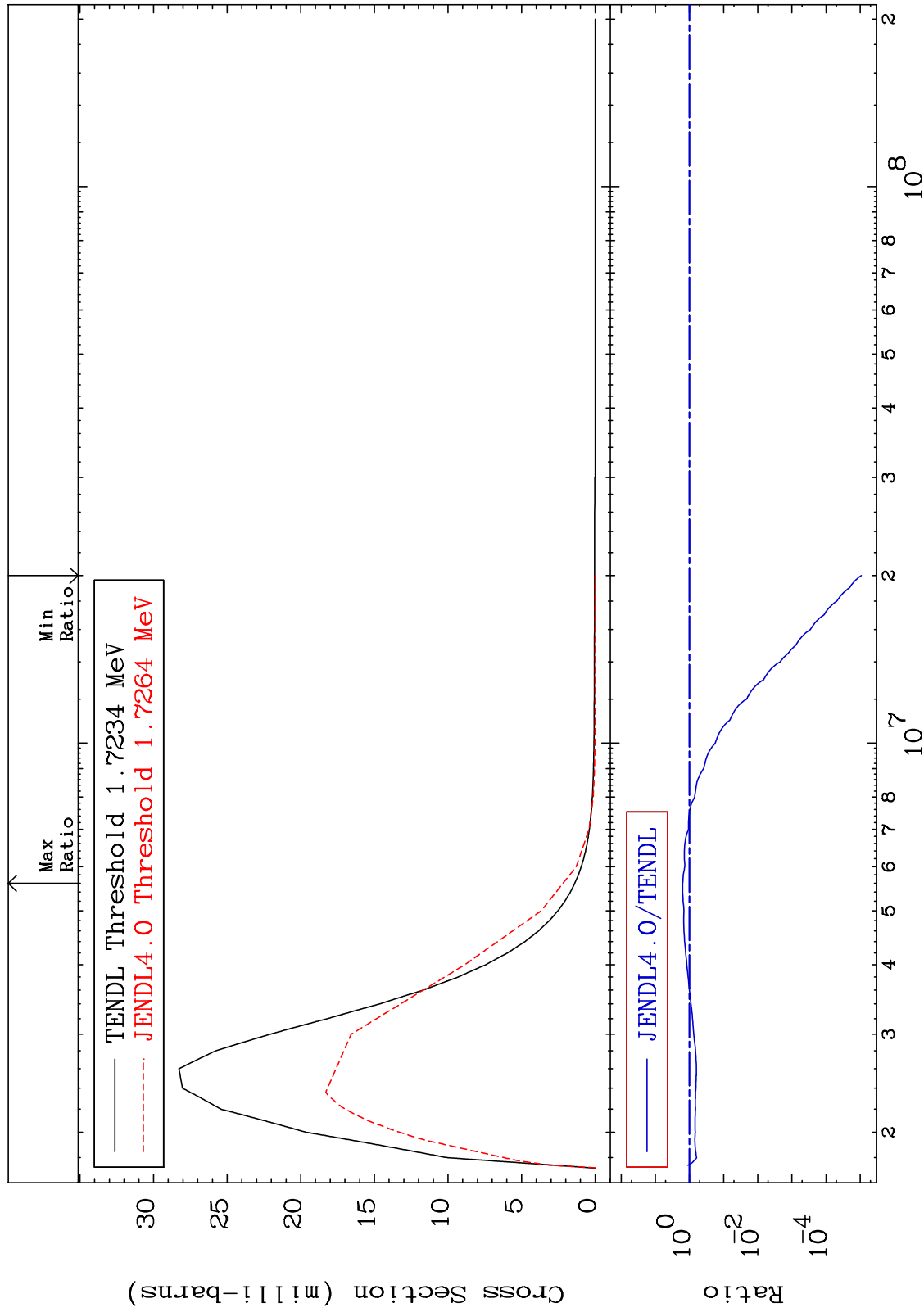
31-Ga-71
-97.26 To 84.39 %



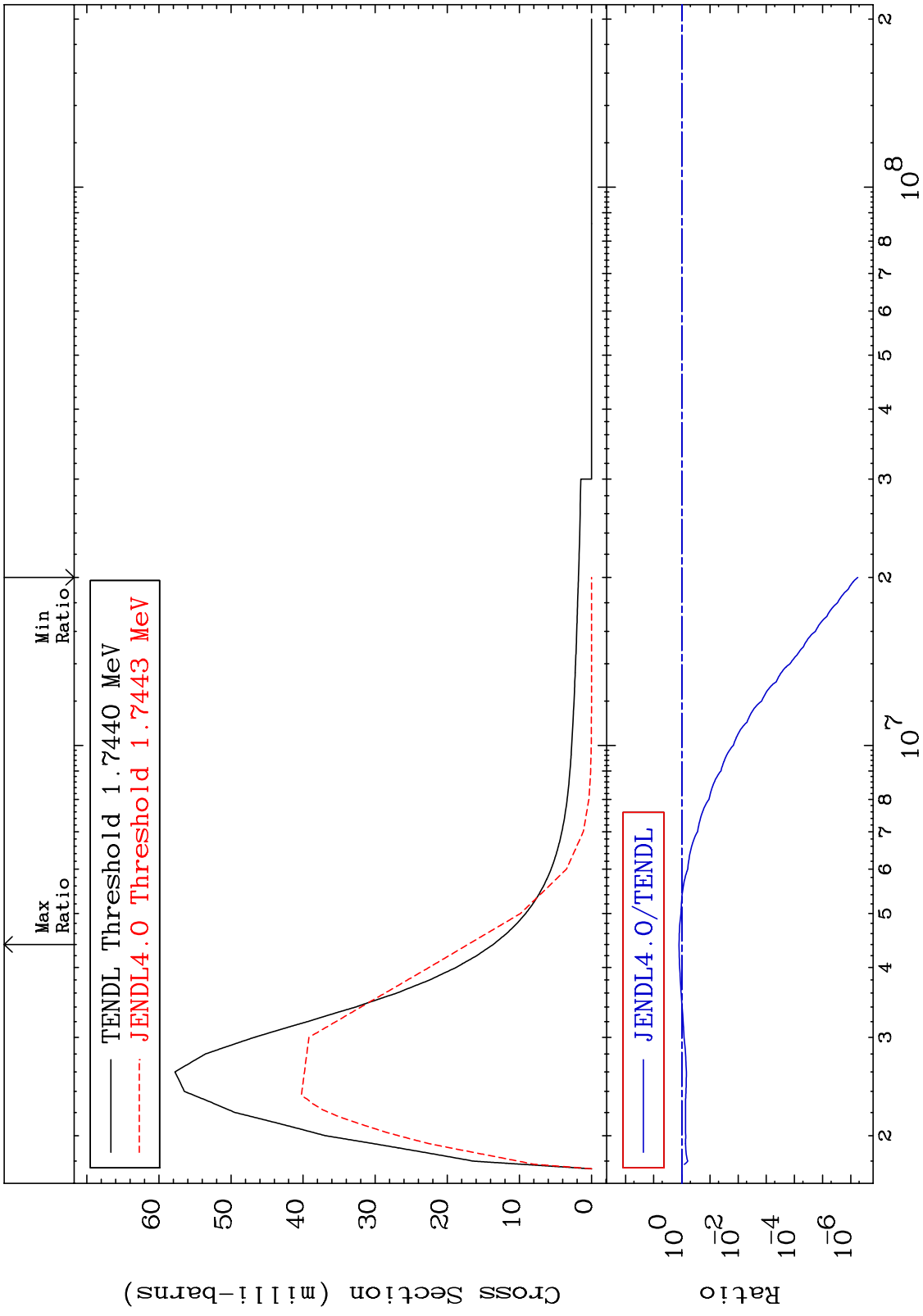
MAT 3131

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

31-Ga-71
-100.0 To 57.88 %



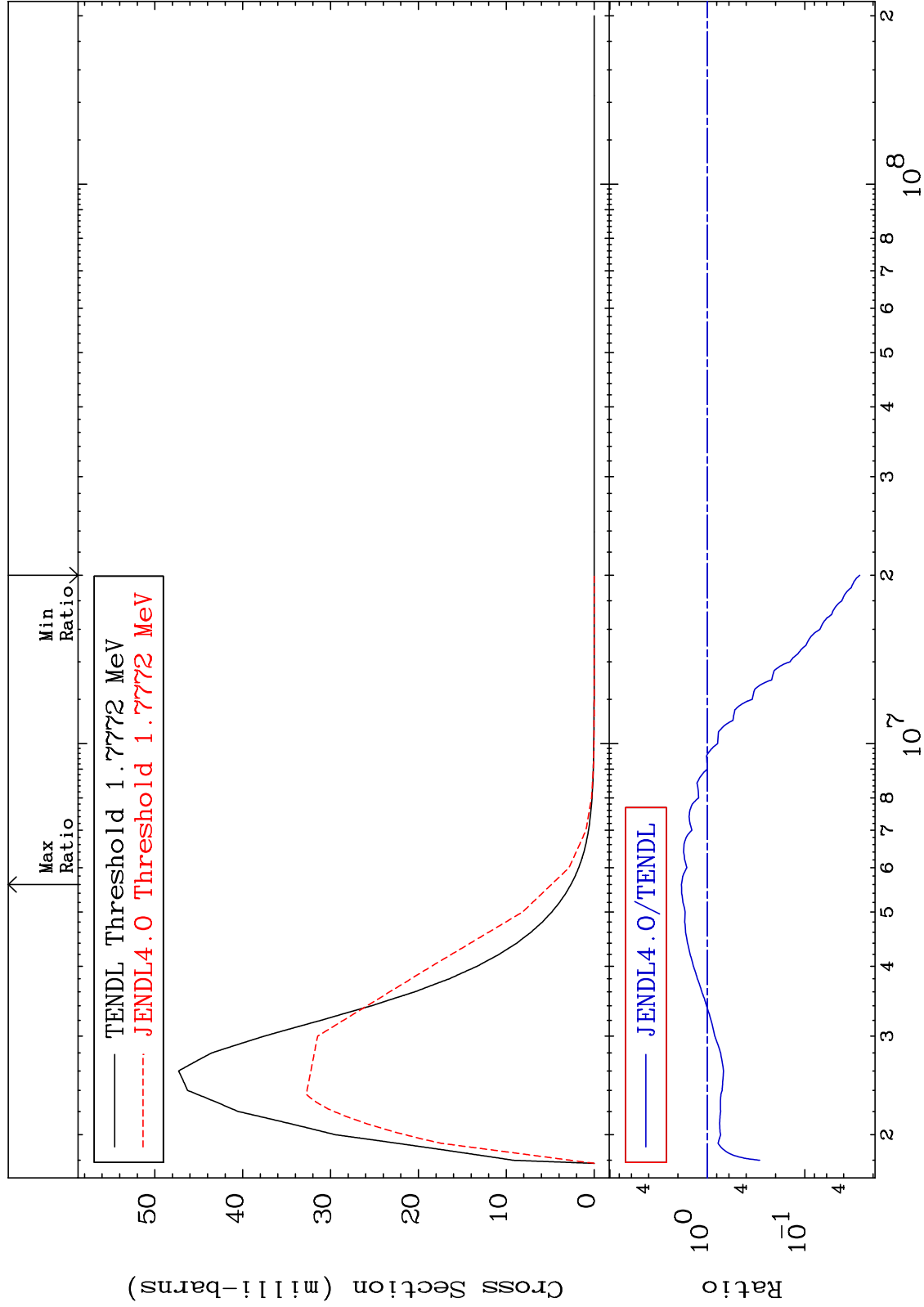
MAT 3131 MT= 65 (n,n') Level Cross Section -100.0 To 25.71 % 31-Ga-71



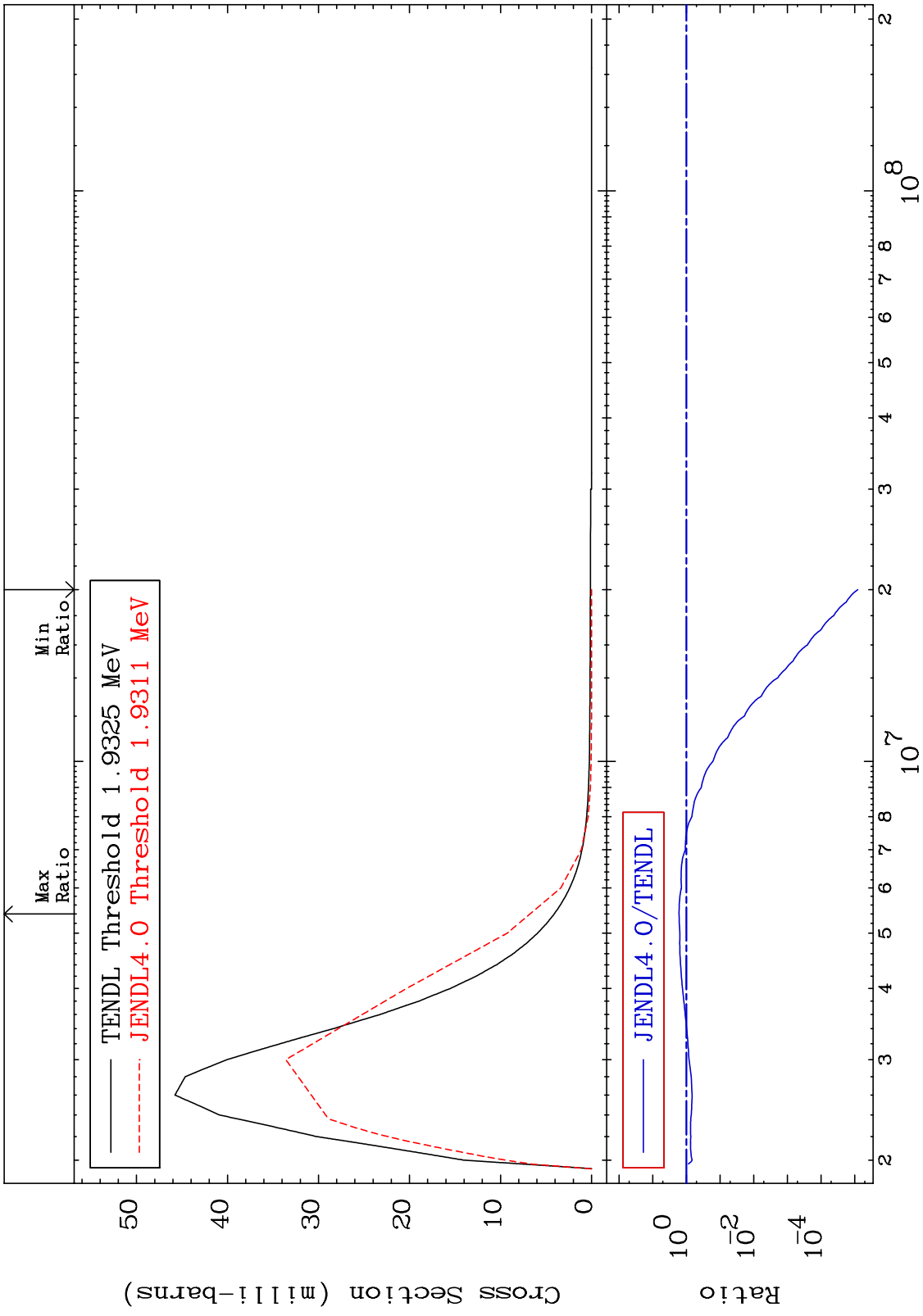
MAT 3131

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

31-Ga-71
-97.27 To 84.20 %



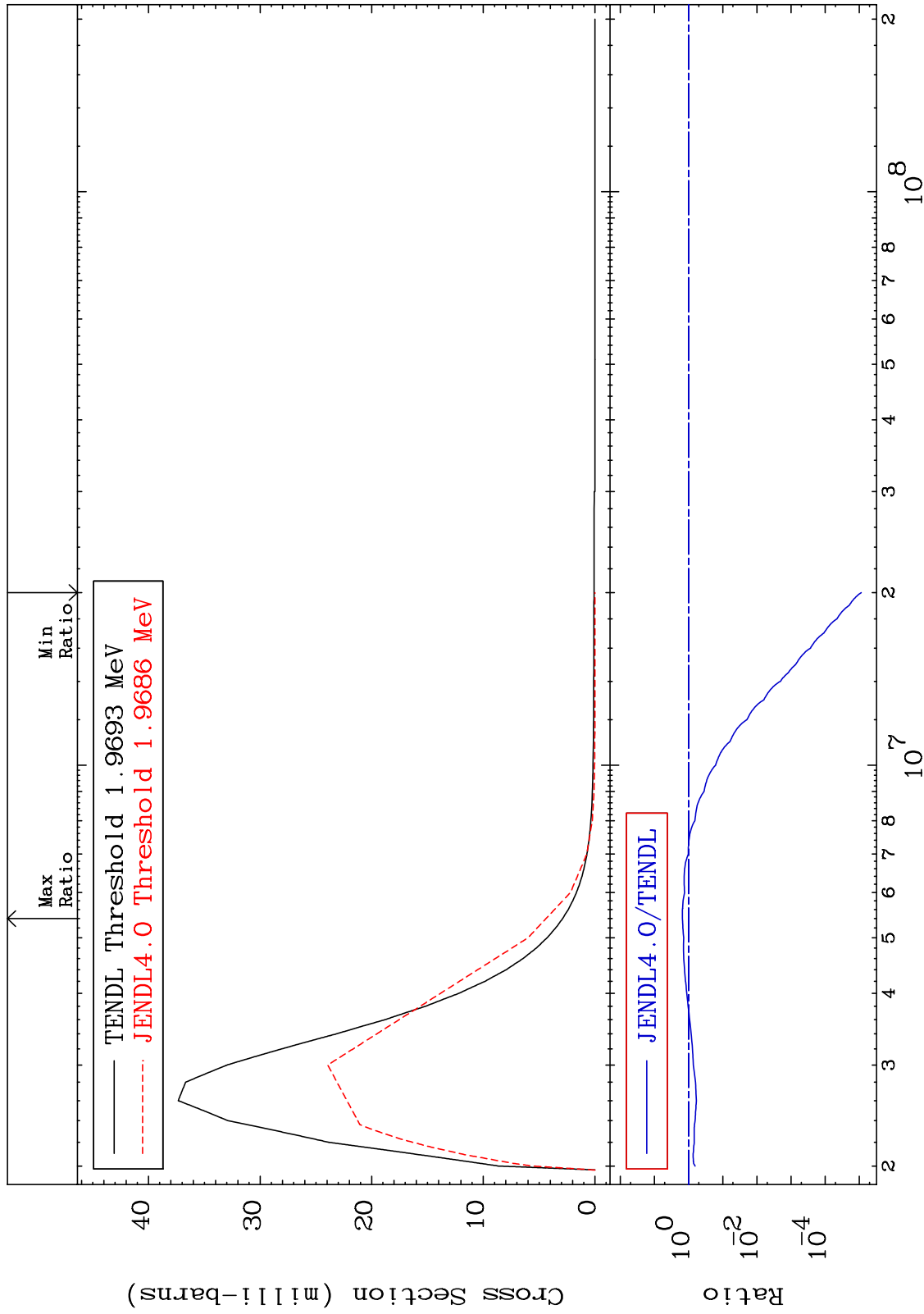
MAT 3131 MT= 67 (n,n') Level Cross Section -100.0 To 65.15 % 31-Ga-71



MAT 3131

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

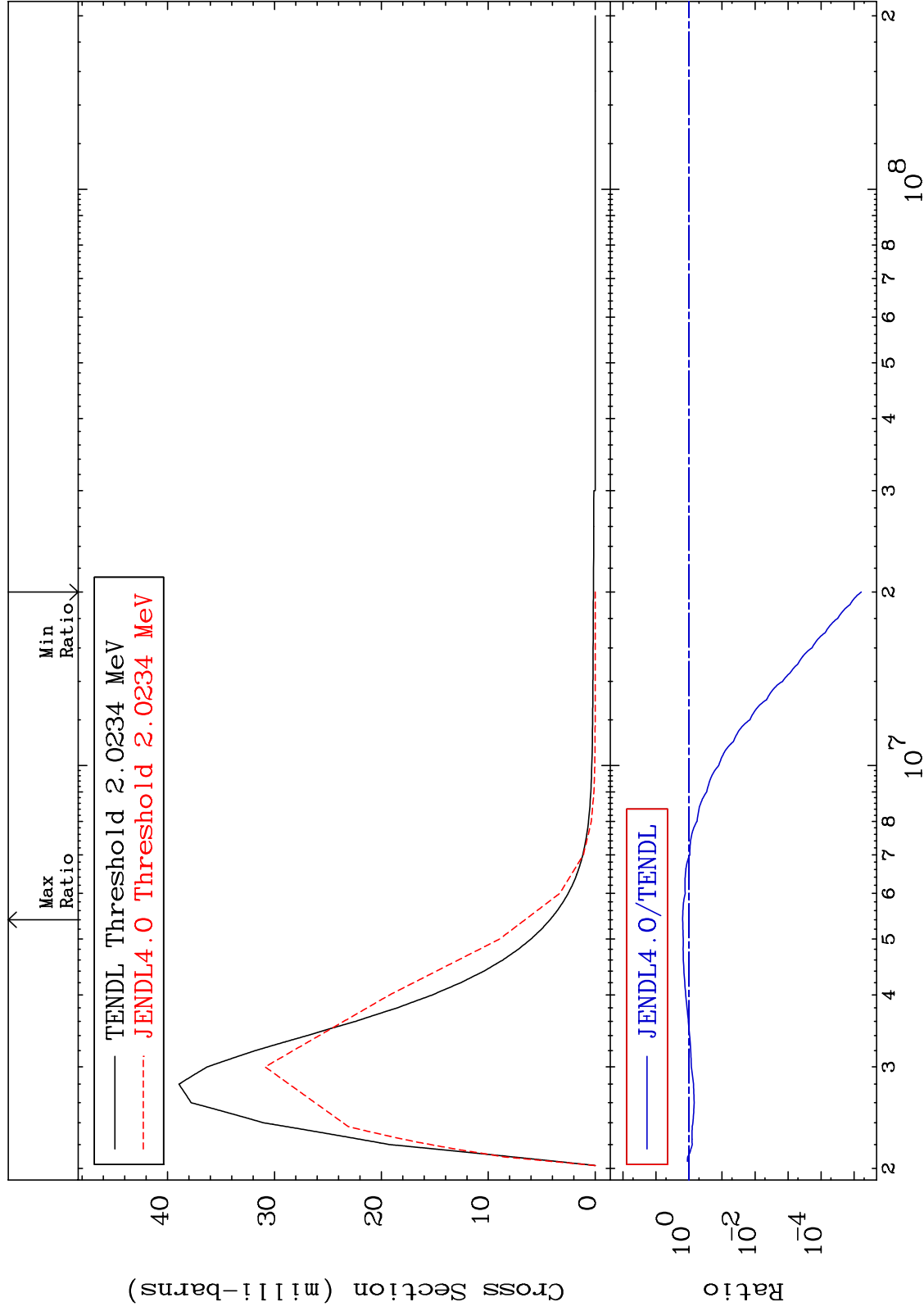
31-Ga-71
-100.0 To 51.58 %



MAT 3131

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

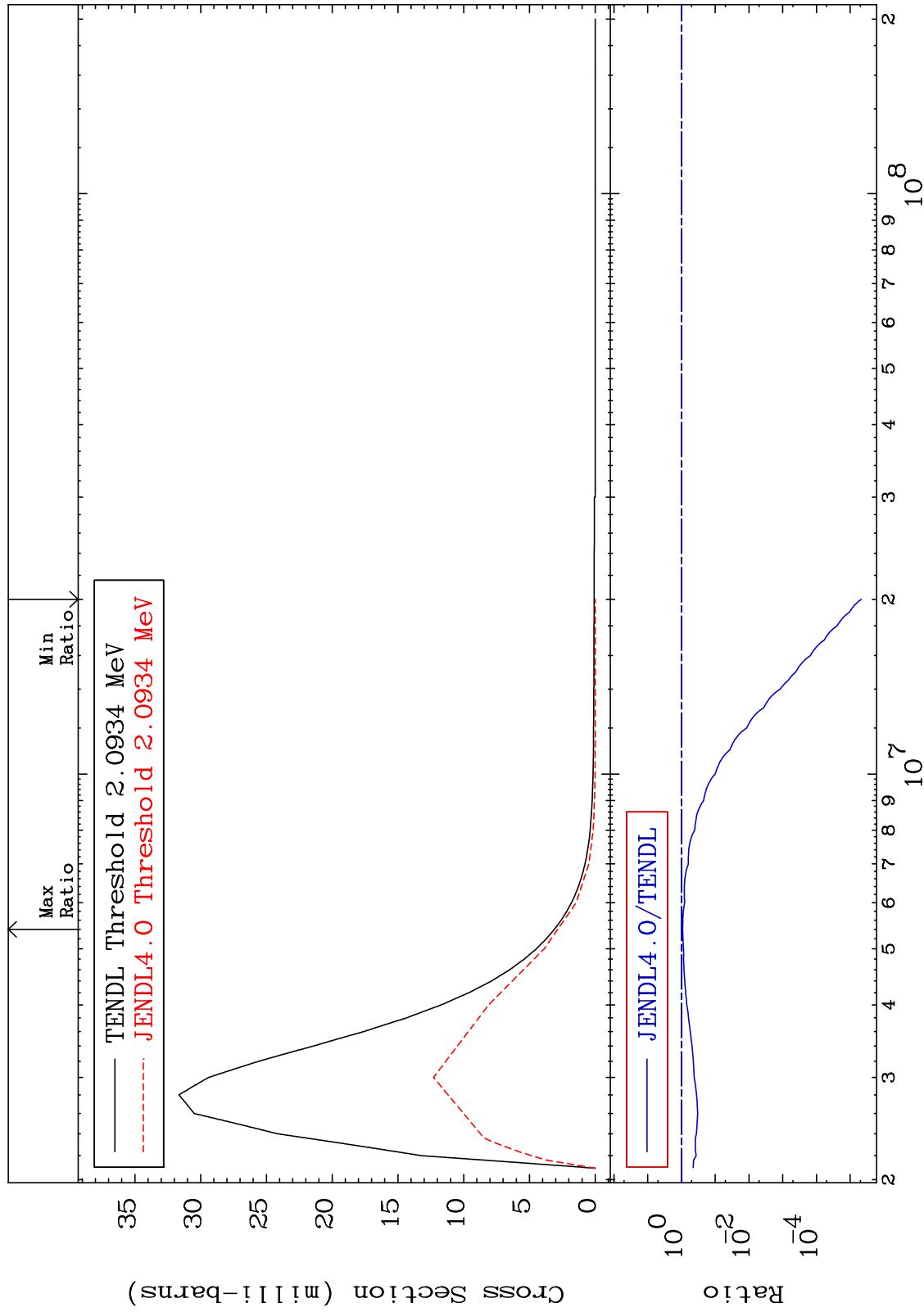
31-Ga-71
-100.0 To 55.61 %



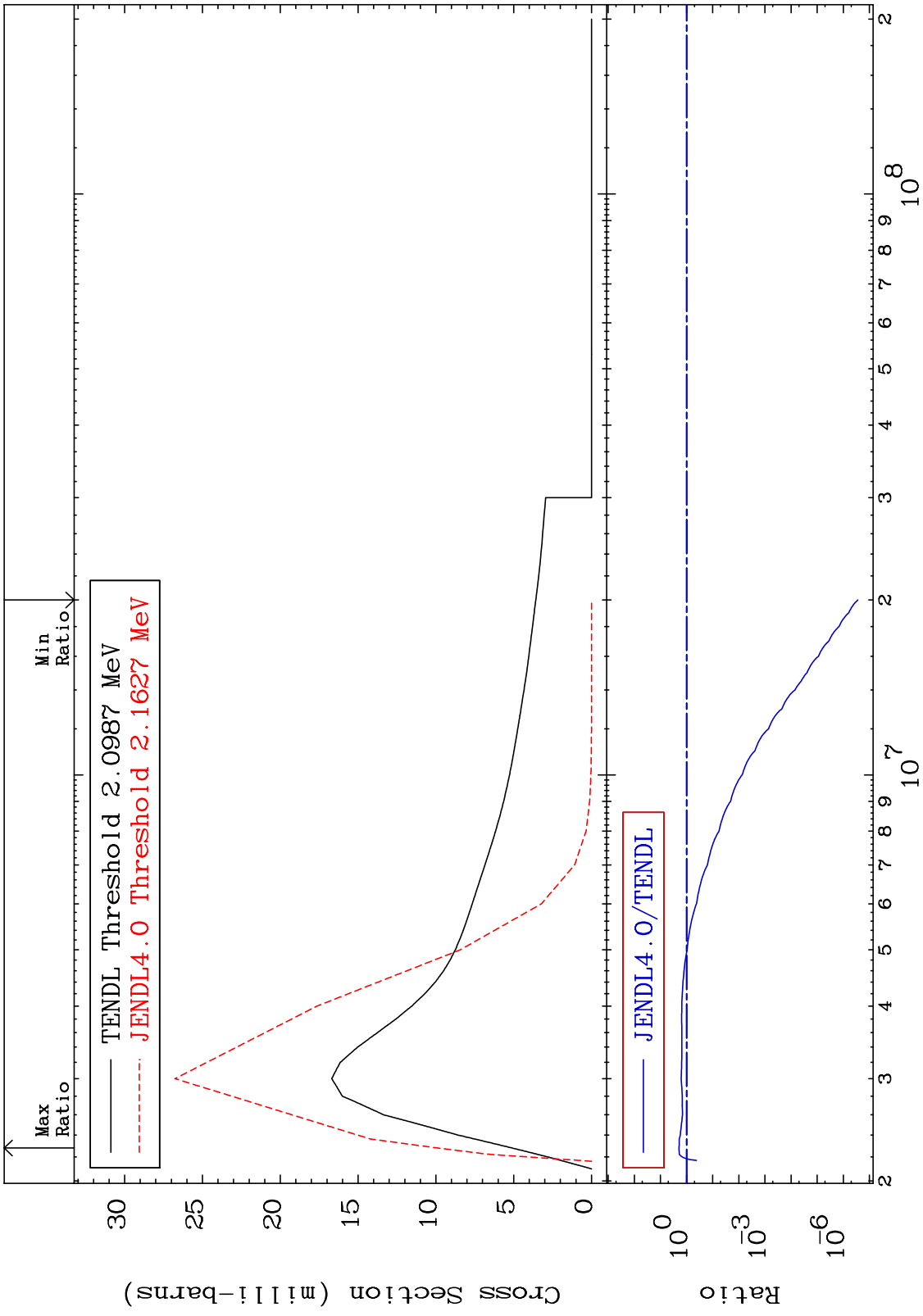
MAT 3131

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

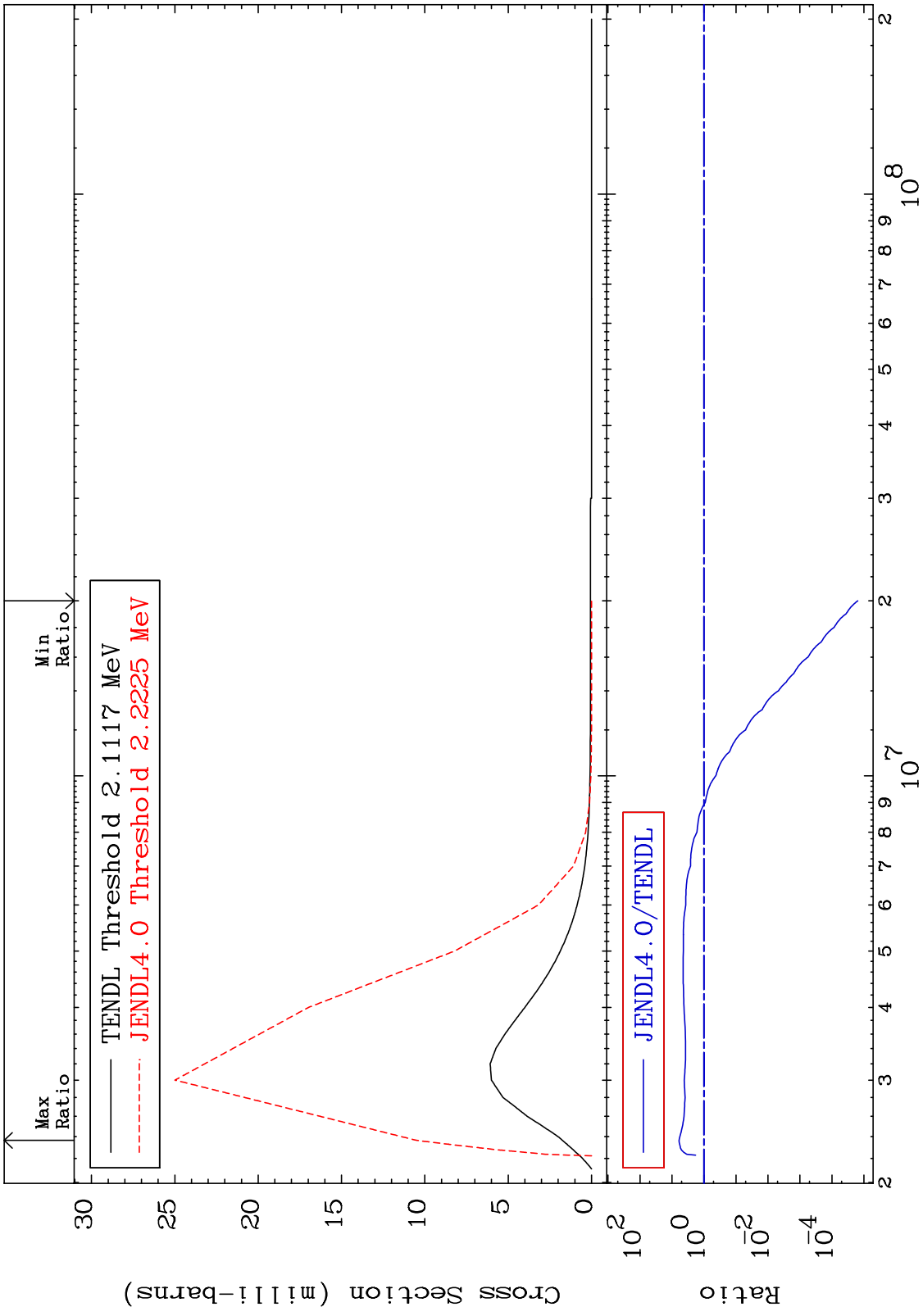
31-Ga-71
-100.0 To -8.073%



MAT 3131 MT= 71 (n,n') Level Cross Section -100.0 To 93.50 % 31-Ga-71



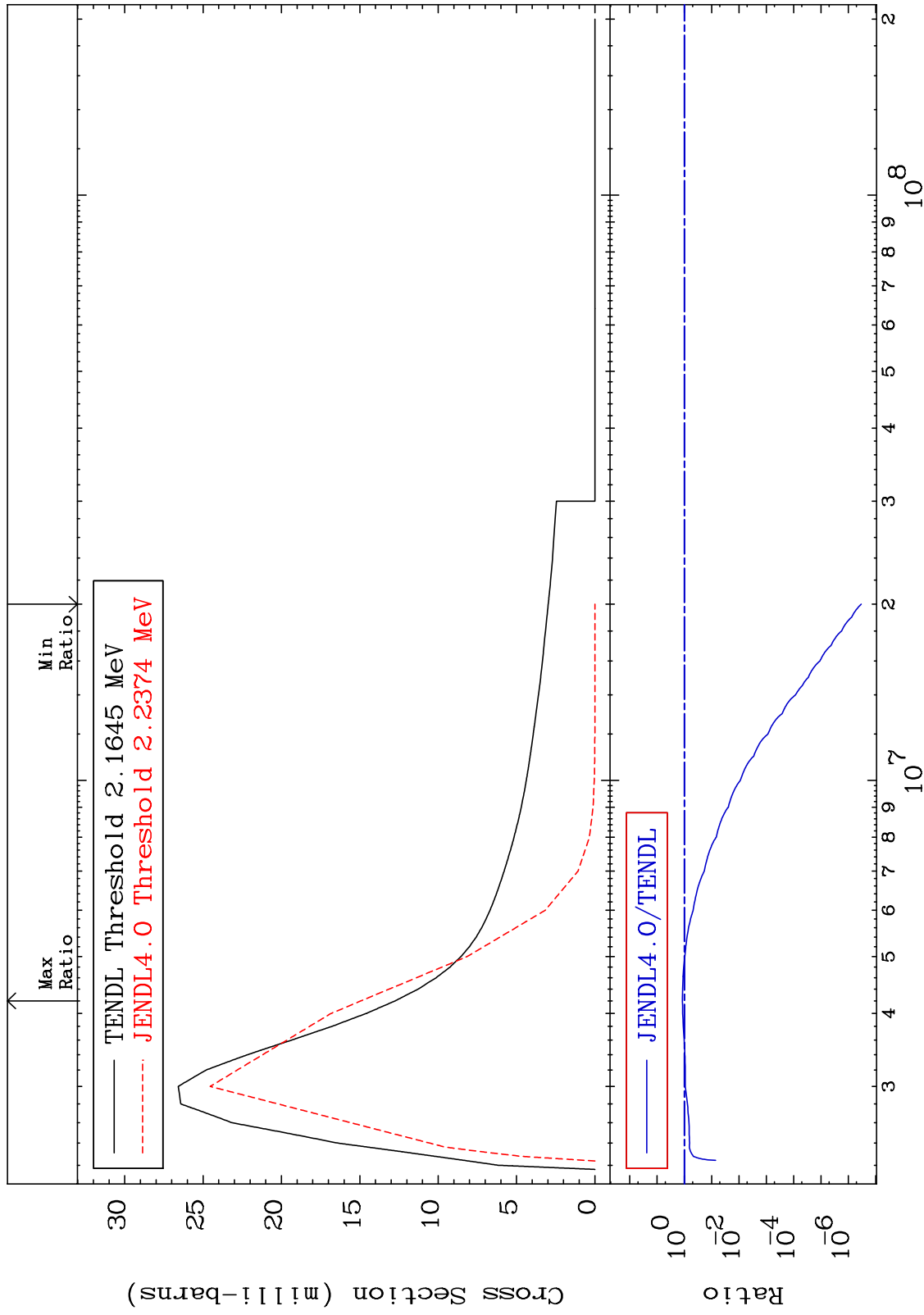
MAT 3131 MT= 72 (n,n') Level Cross Section -100.0 To 502.5 % 31-Ga-71



MAT 3131

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

31-Ga-71
-100.0 To 17.15 %



31

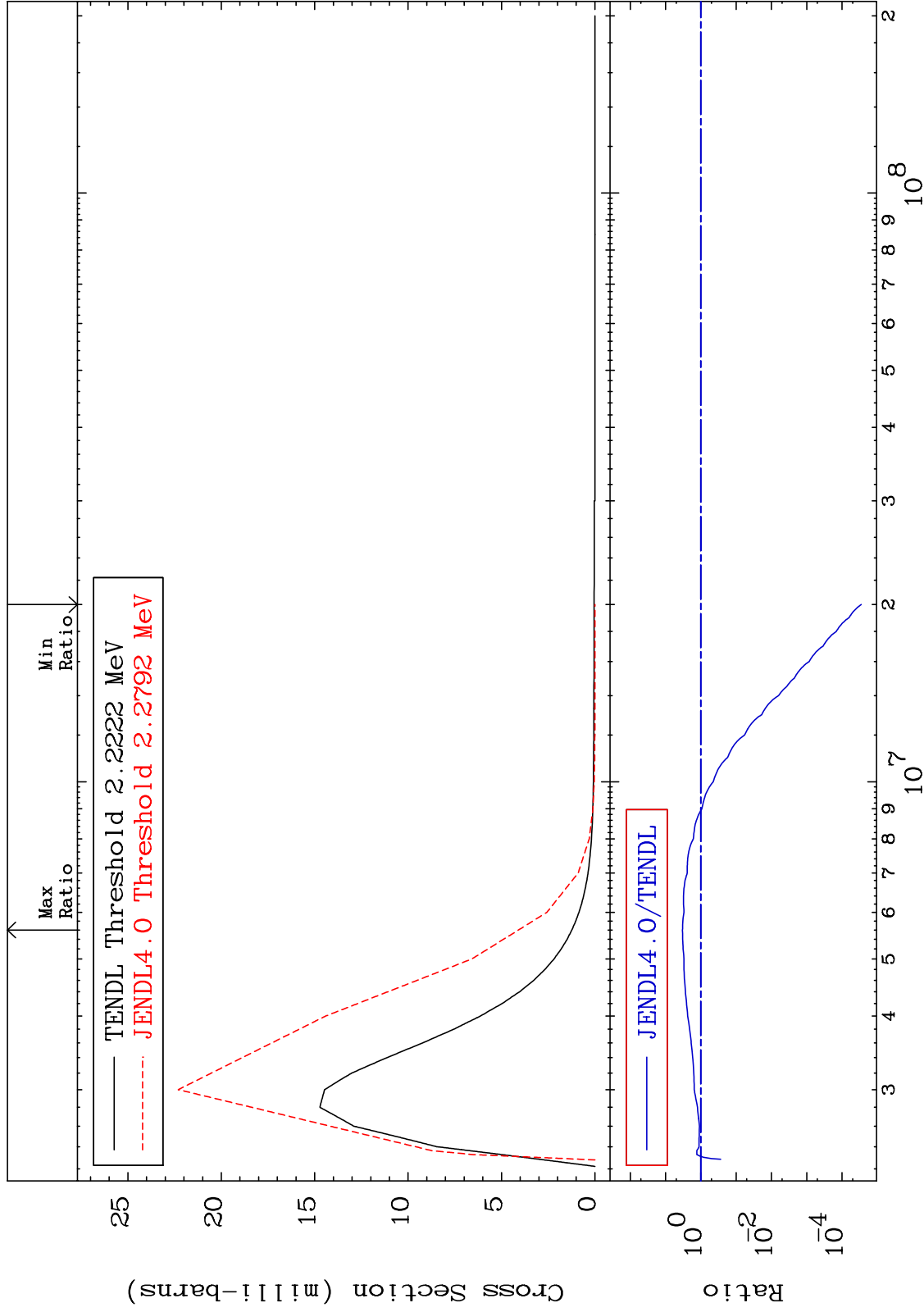
Incident Energy (eV)

31-Ga-71

MAT 3131

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

31-Ga-71
-100.0 To 232.0 %

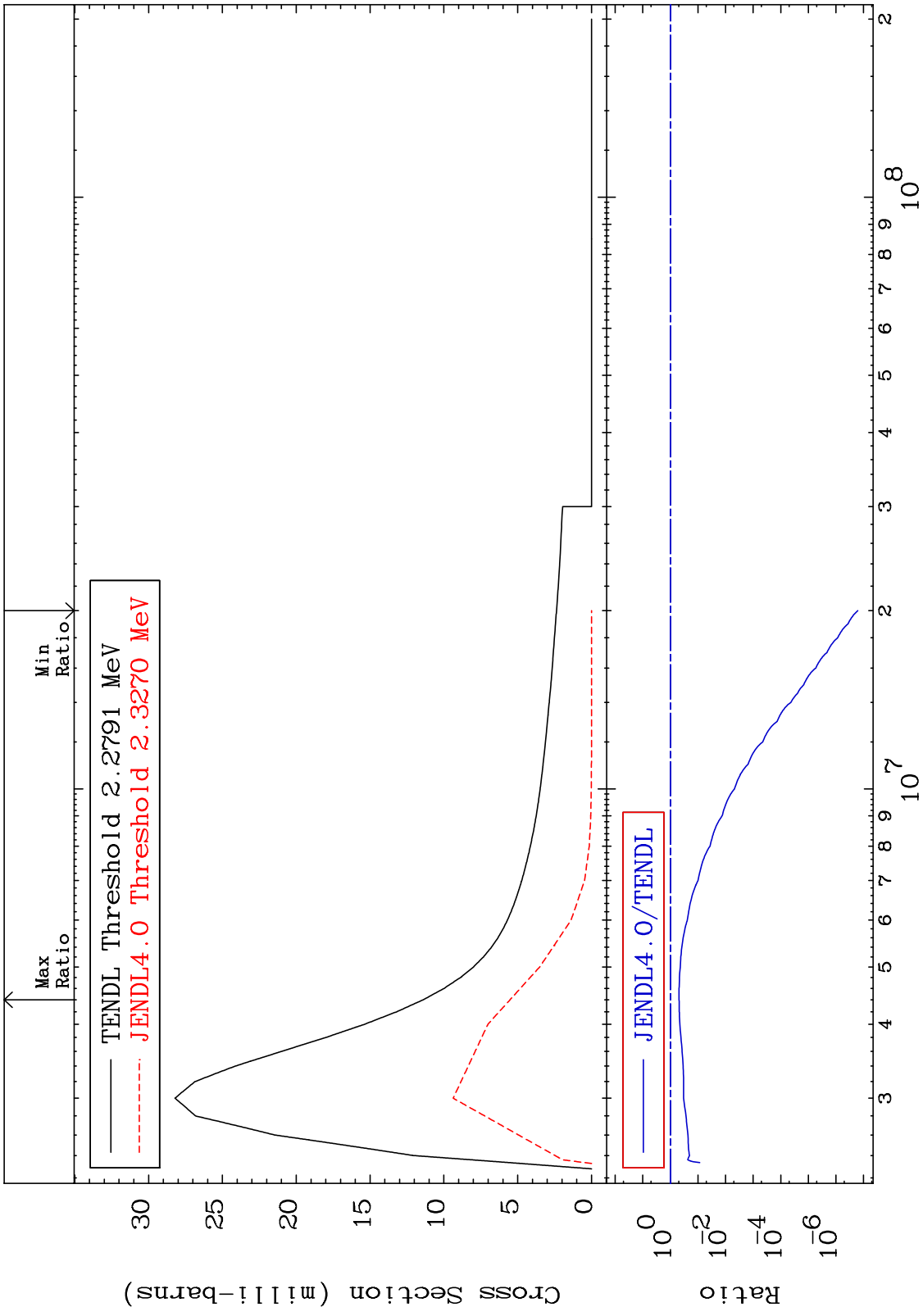


32

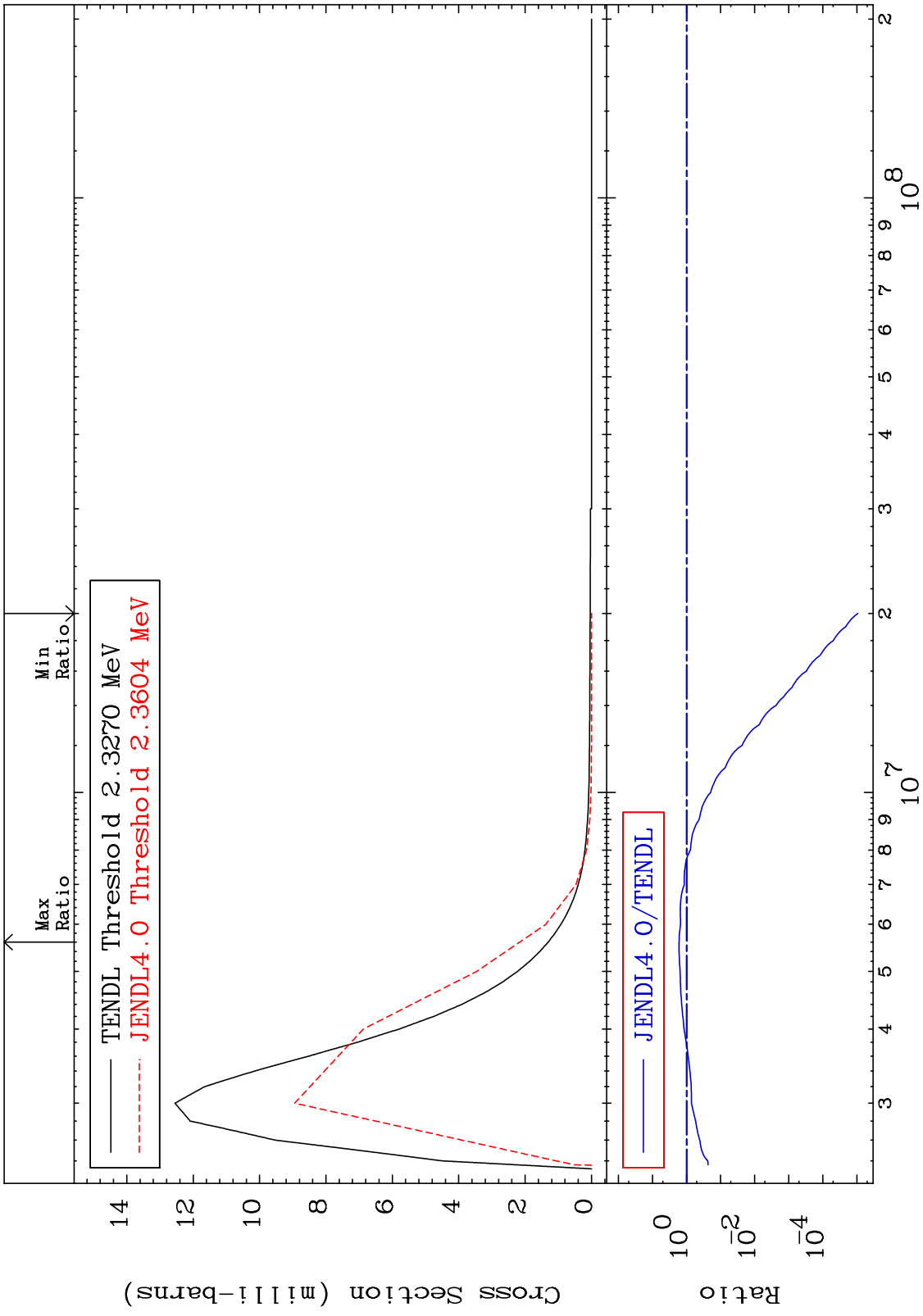
Incident Energy (eV)

31-Ga-71

MAT 3131 MT= 75 (n,n') Level Cross Section -100.0 To -51.56% 31-Ga-71



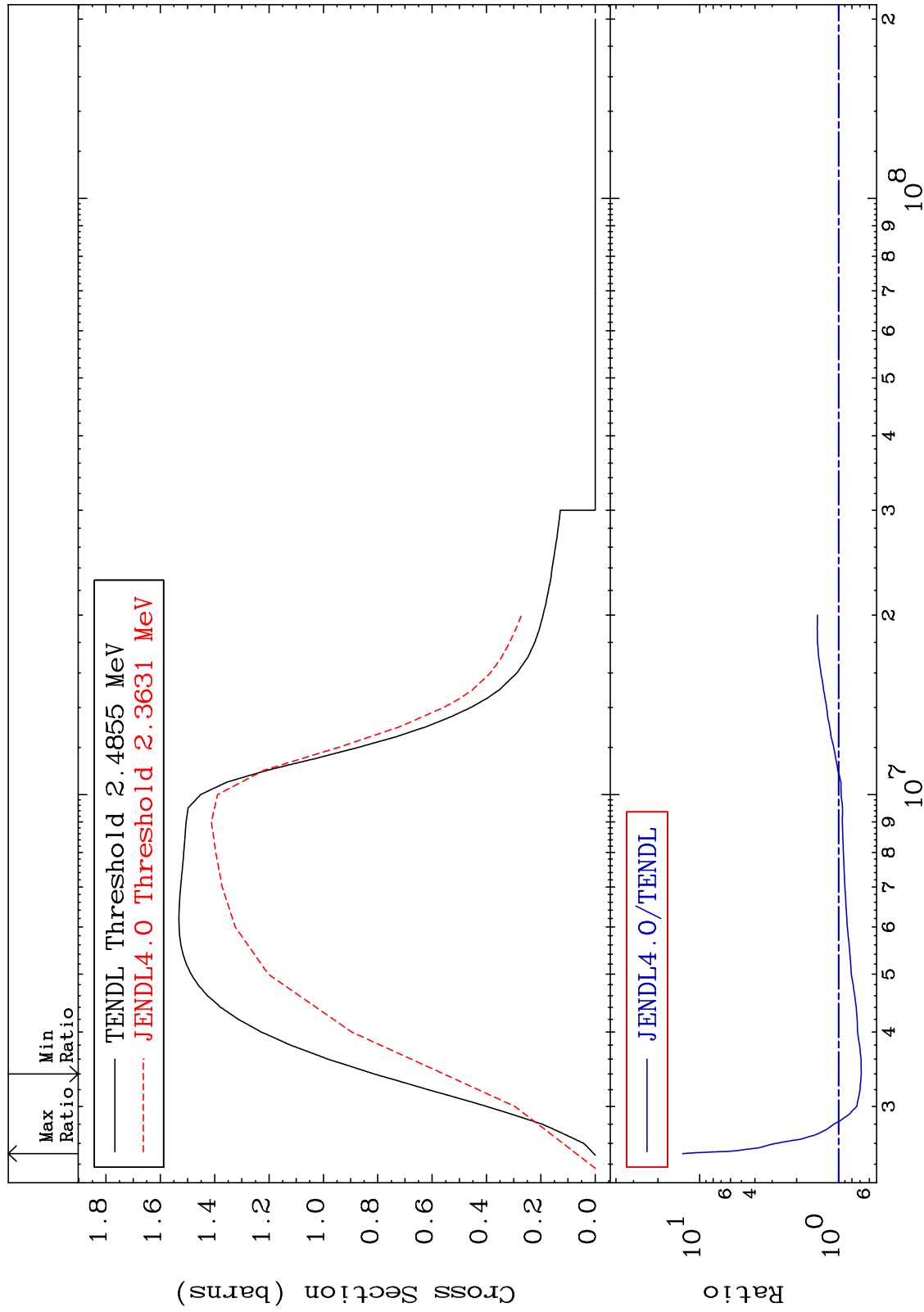
MAT 3131 MT= 76 (n,n') Level Cross Section -100.0 To 65.75 % 31-Ga-71



MAT 3131

(n,n') Continuum
Cross Section

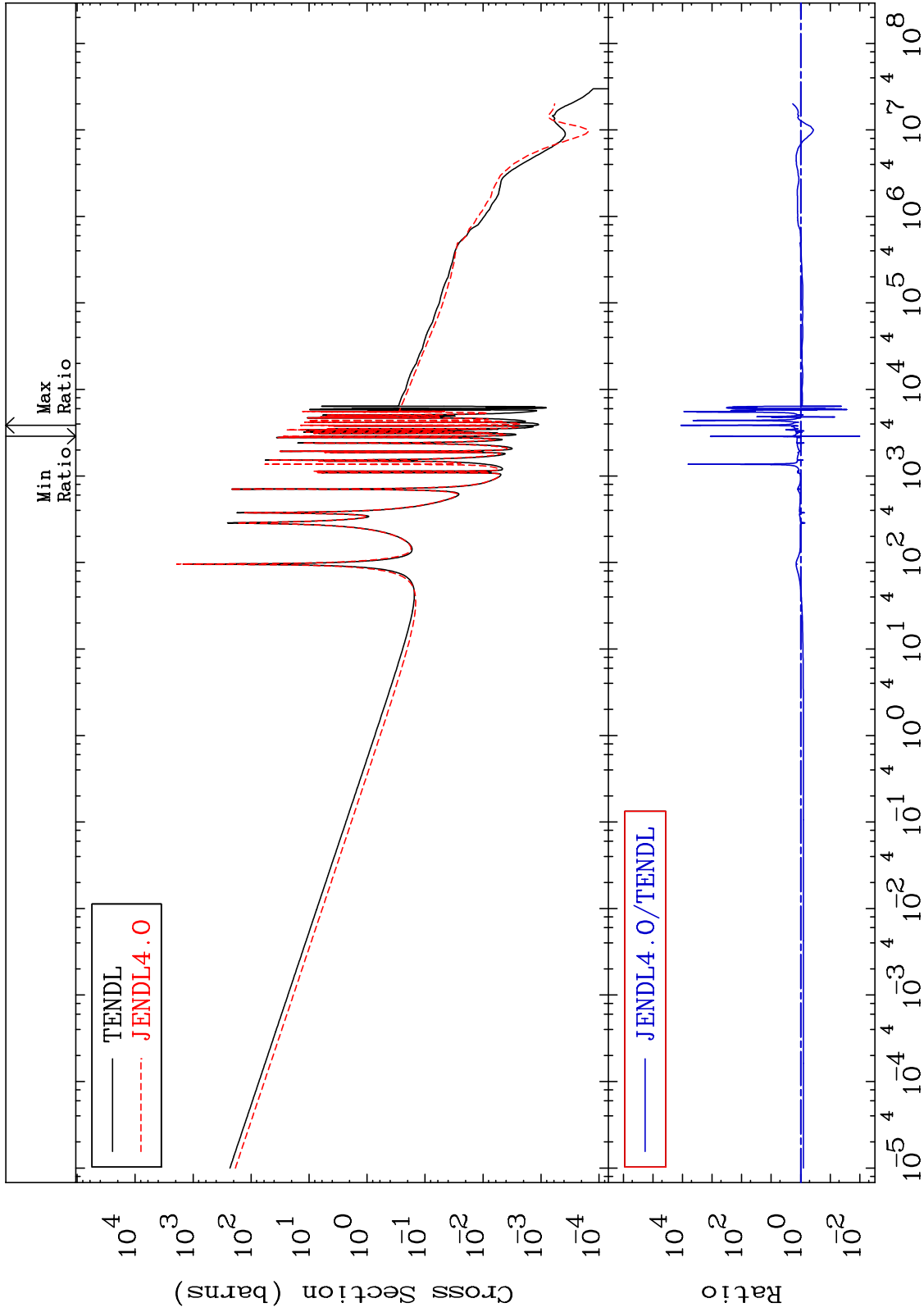
31-Ga-71
-31.55 To 1225. %



MAT 3131

(n, γ)
Cross Section

31-Ga-71
-98.99 To 9999. %



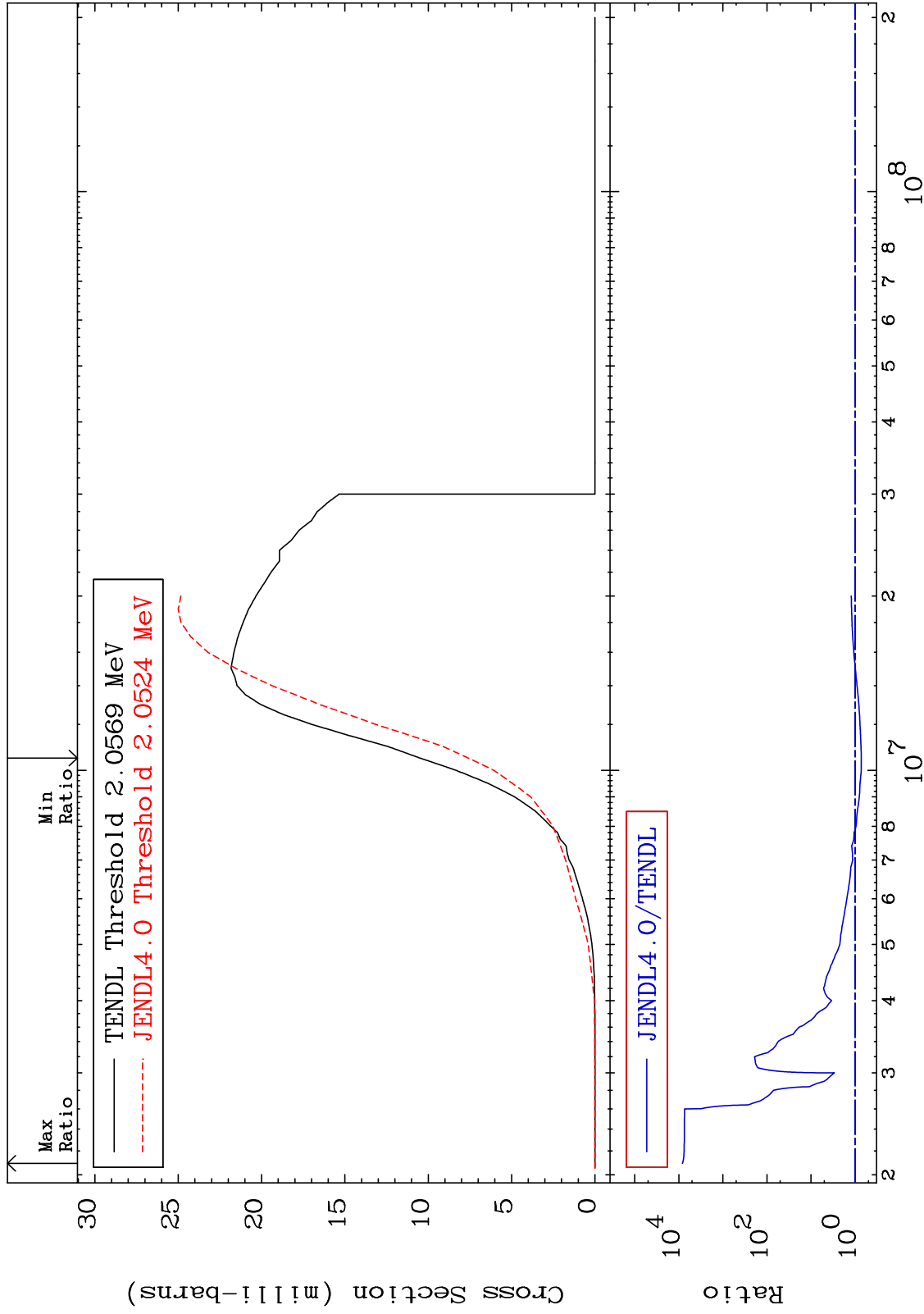
MAT 3131

(n,p)

31-Ga-71

Cross Section

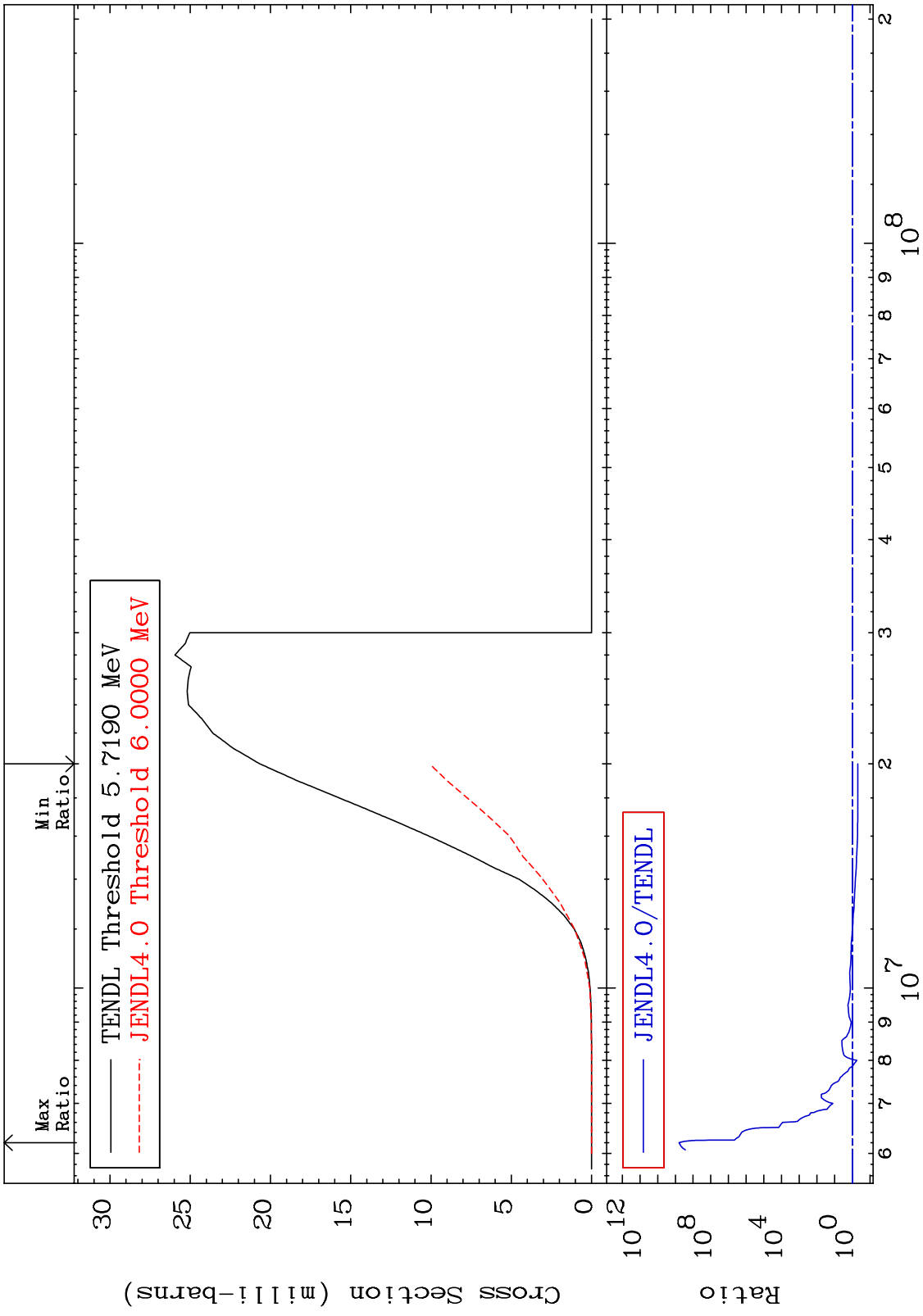
-27.69 To 9999. %

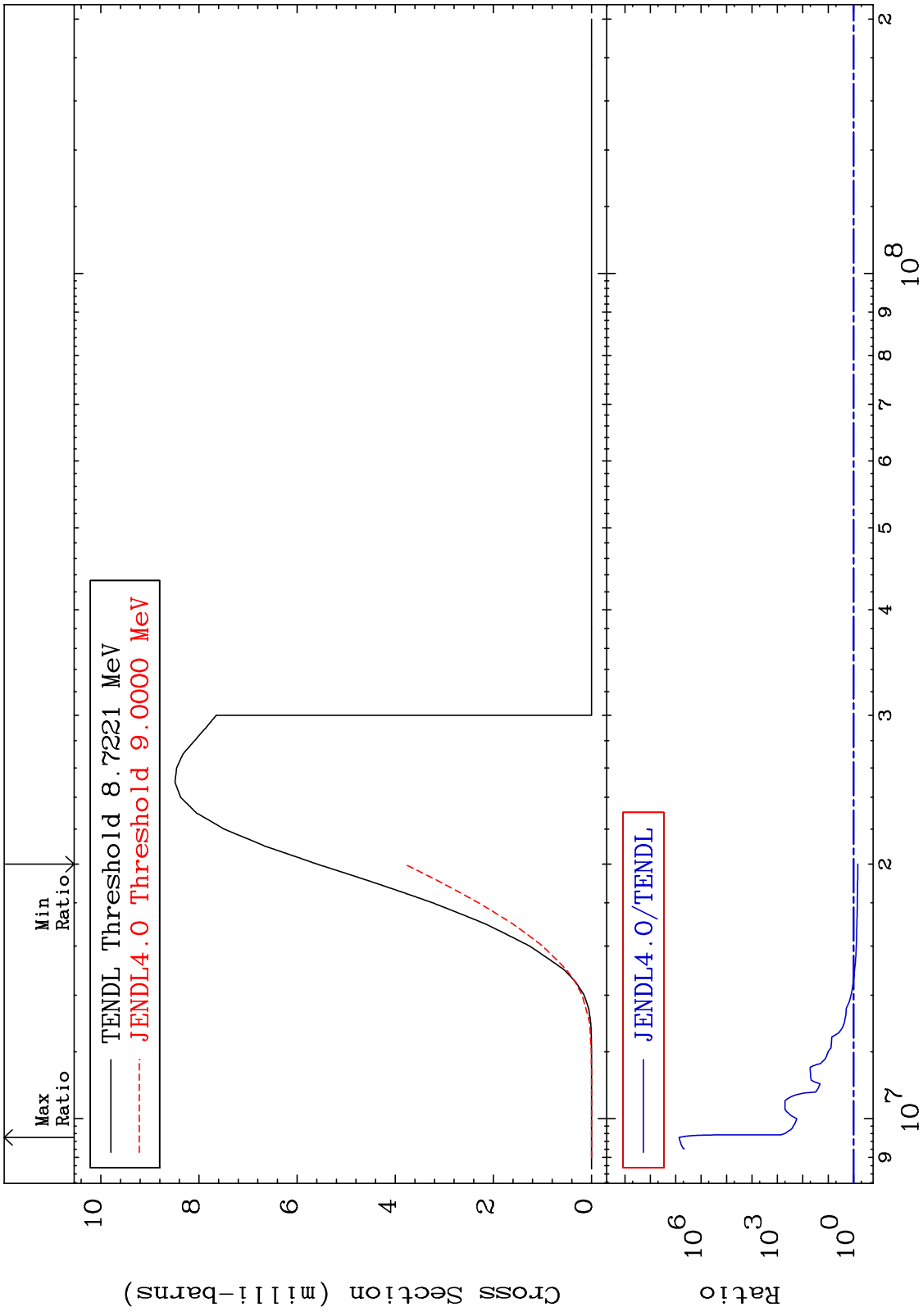


37

Incident Energy (eV)

31-Ga-71





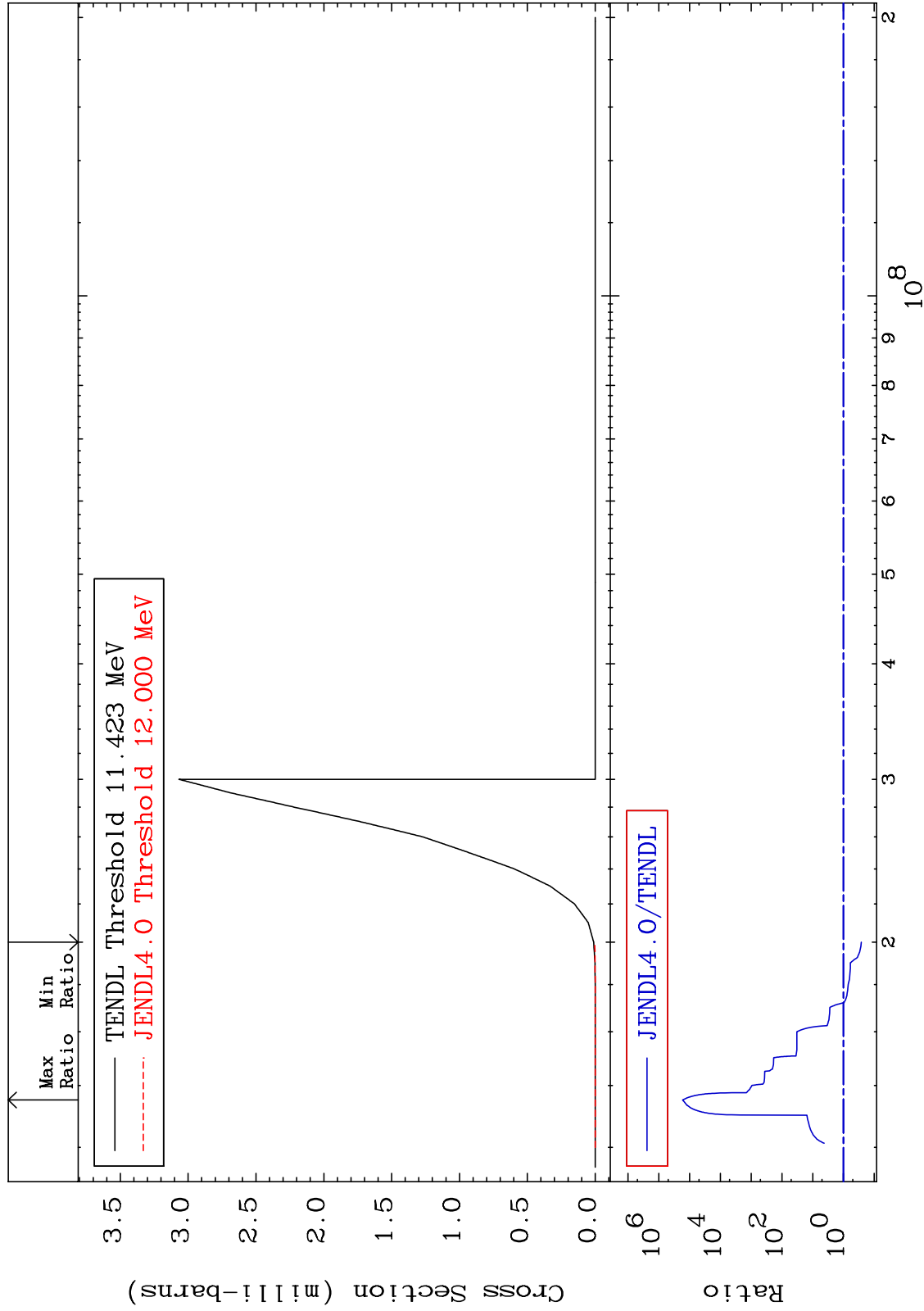
MAT 3131

(n, He-3)

31-Ga-71

Cross Section

-73.75 To 9999. %



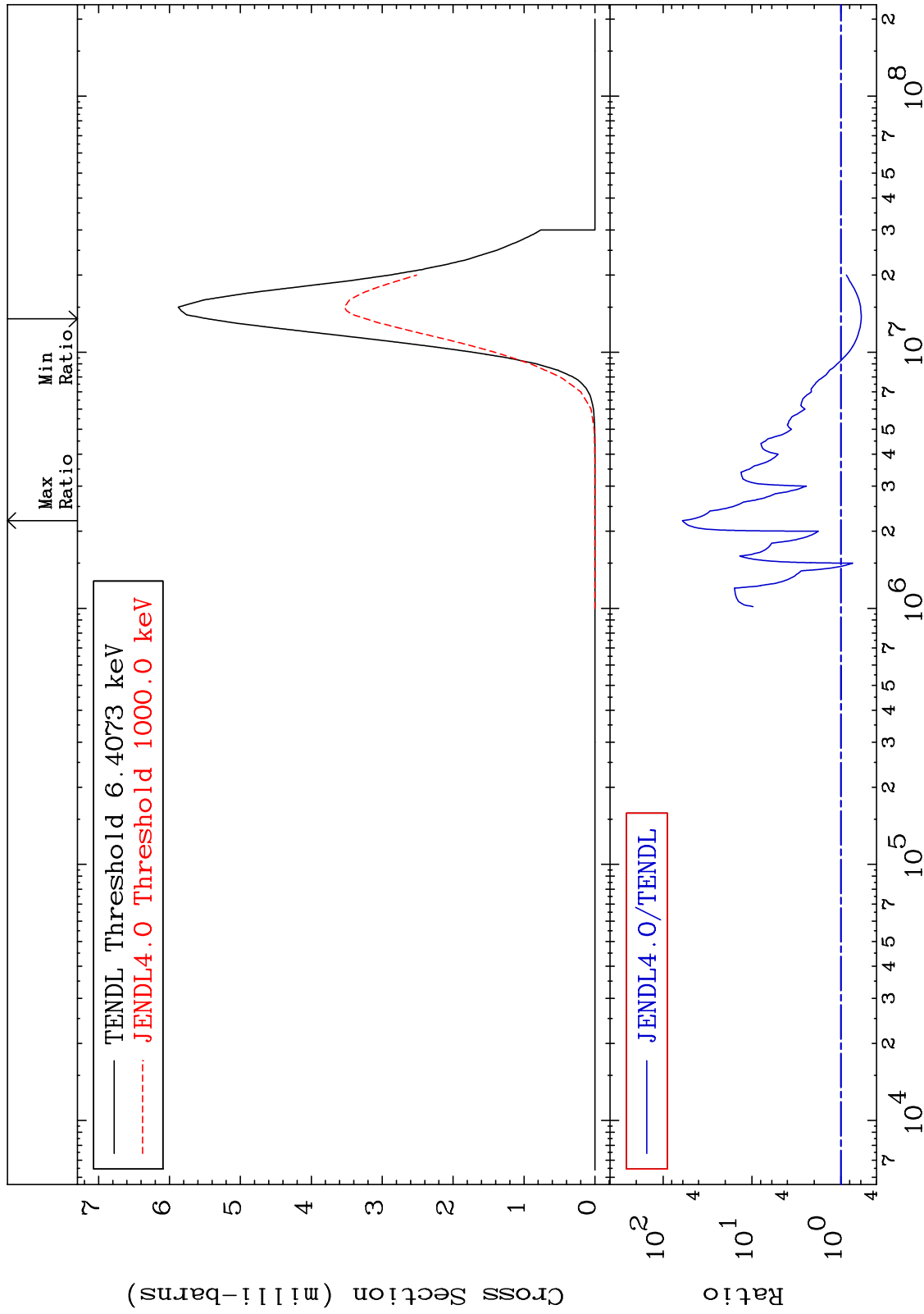
MAT 3131

(n, α)

31-Ga-71

Cross Section

-40.89 To 5953. %



41

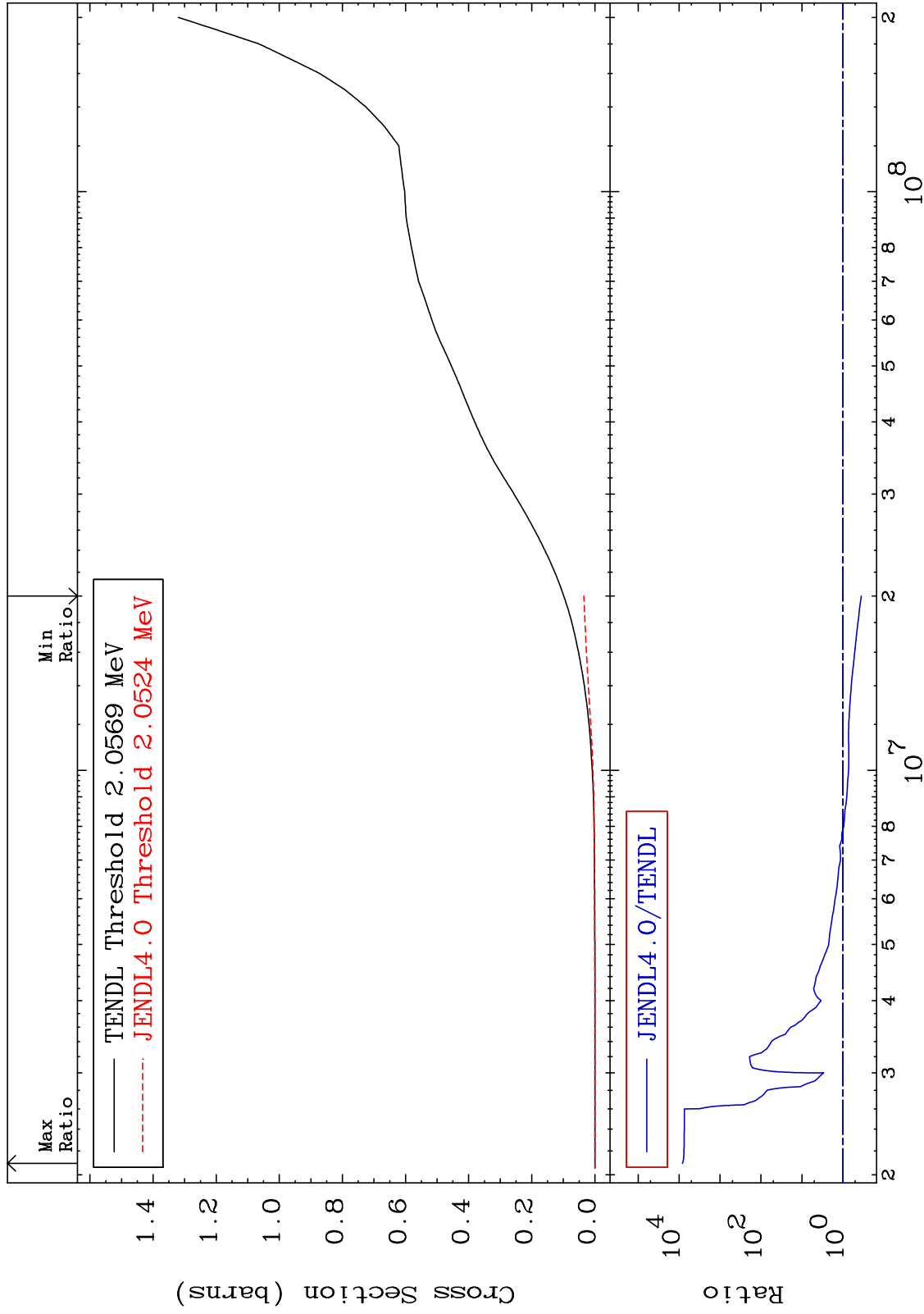
Incident Energy (eV)

31-Ga-71

MAT 3131

Hydrogen Production
Cross Section

31-Ga-71
-64.51 To 9999. %

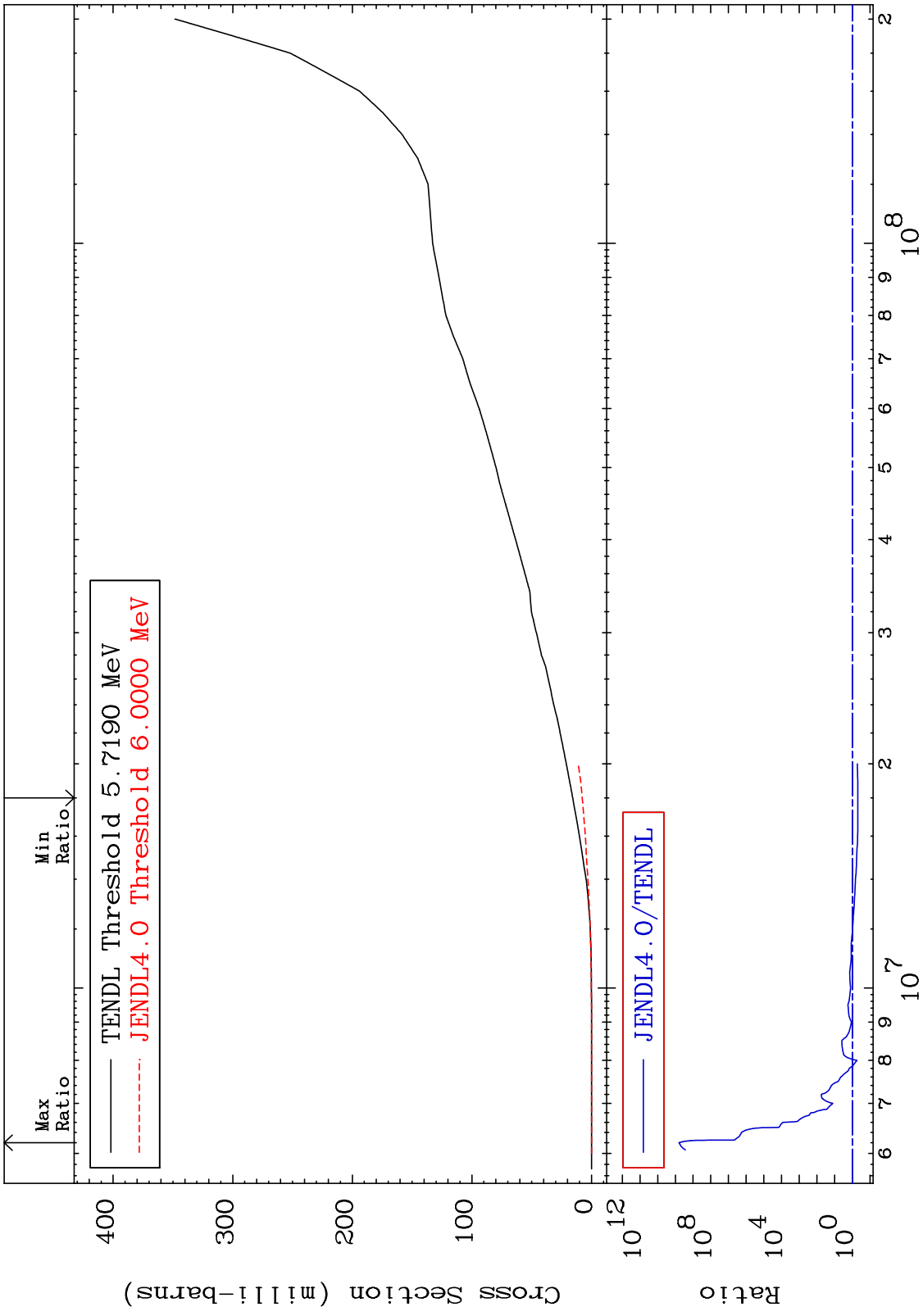


42

Incident Energy (eV)

31-Ga-71

MAT 3131 Deuterium Production Cross Section 31-Ga-71 -50.70 To 9999. %

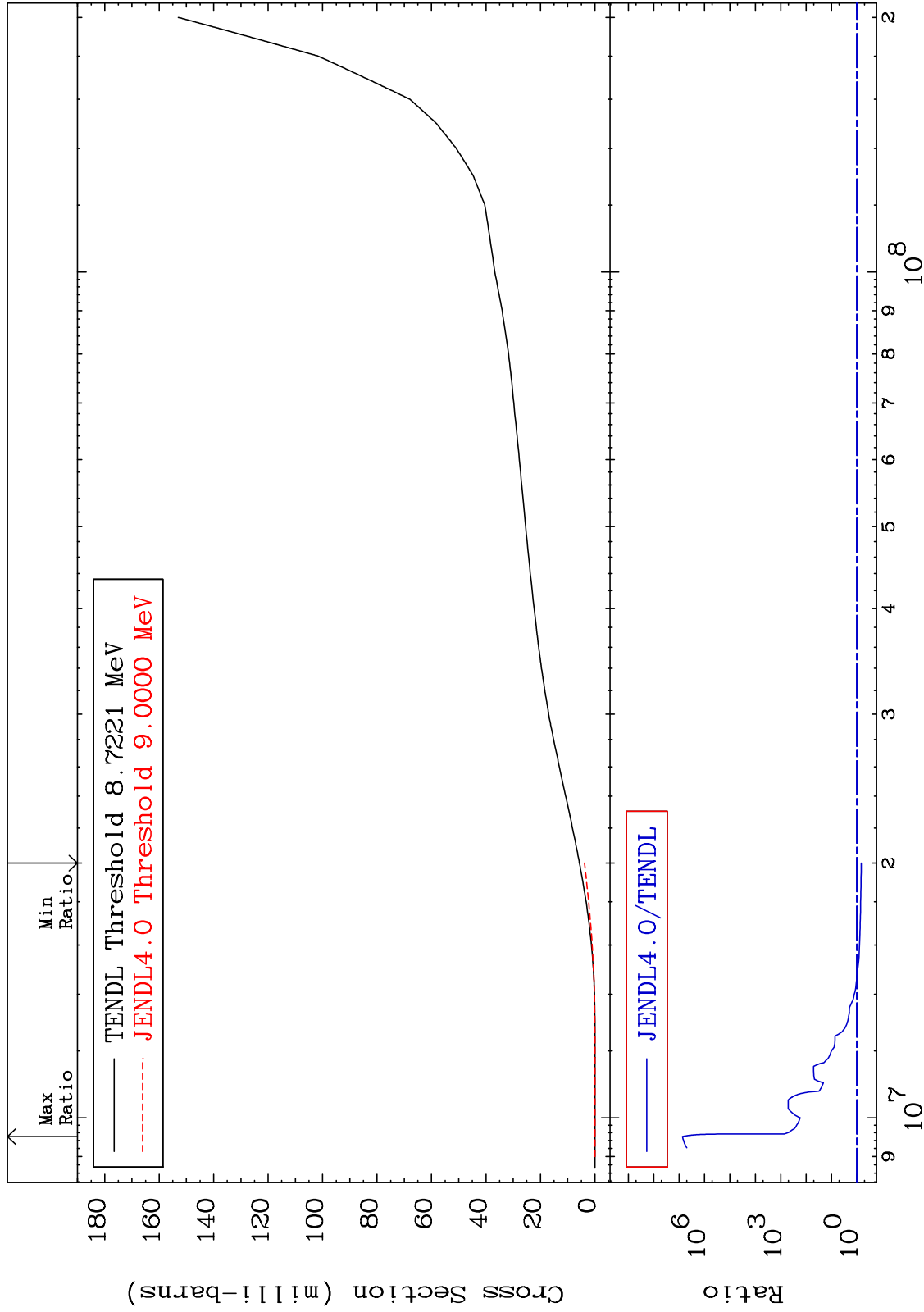


43 31-Ga-71 Incident Energy (eV)

MAT 3131

Tritium Production
Cross Section

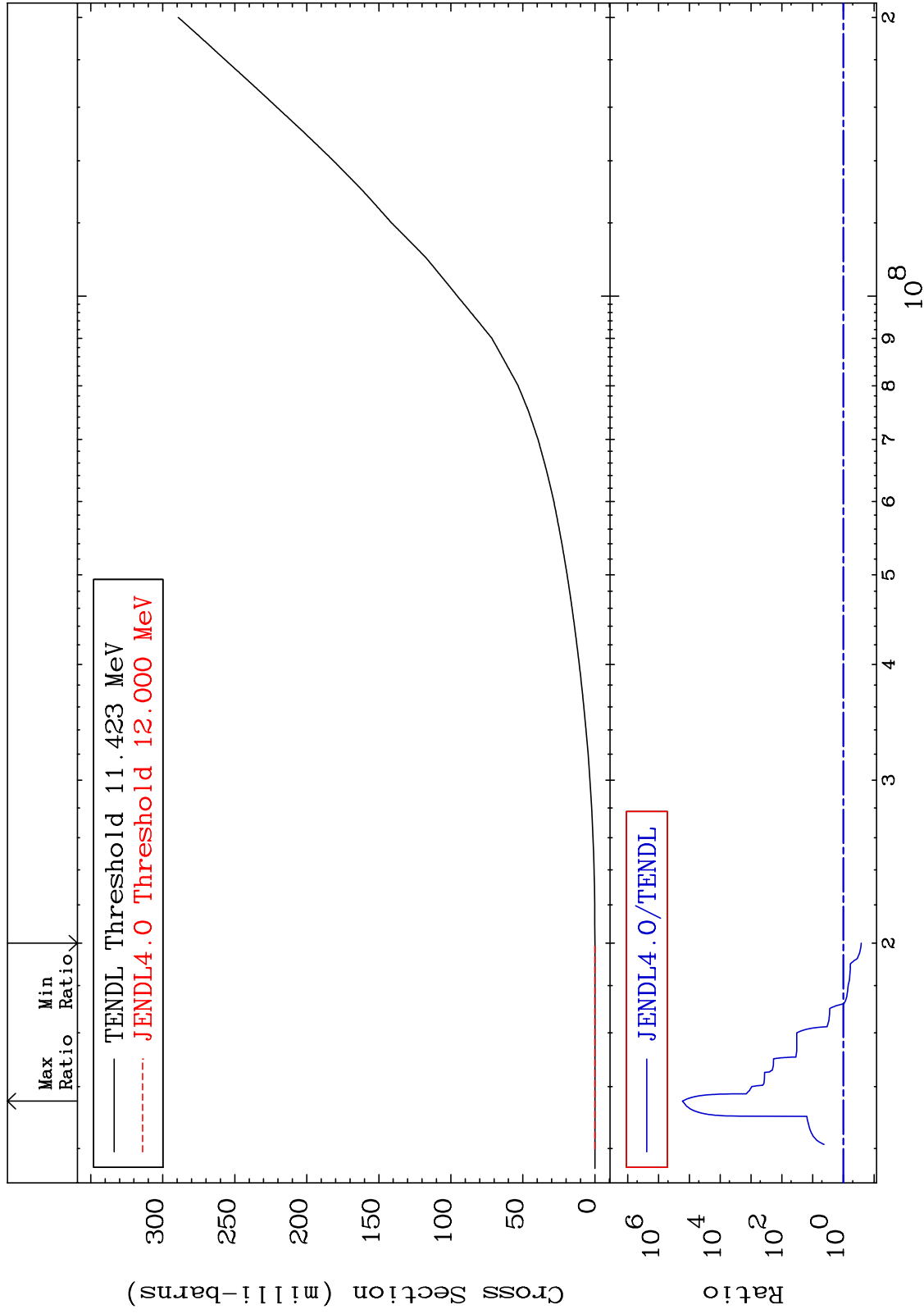
31-Ga-71
-32.77 To 9999. %



MAT 3131

He-3 Production
Cross Section

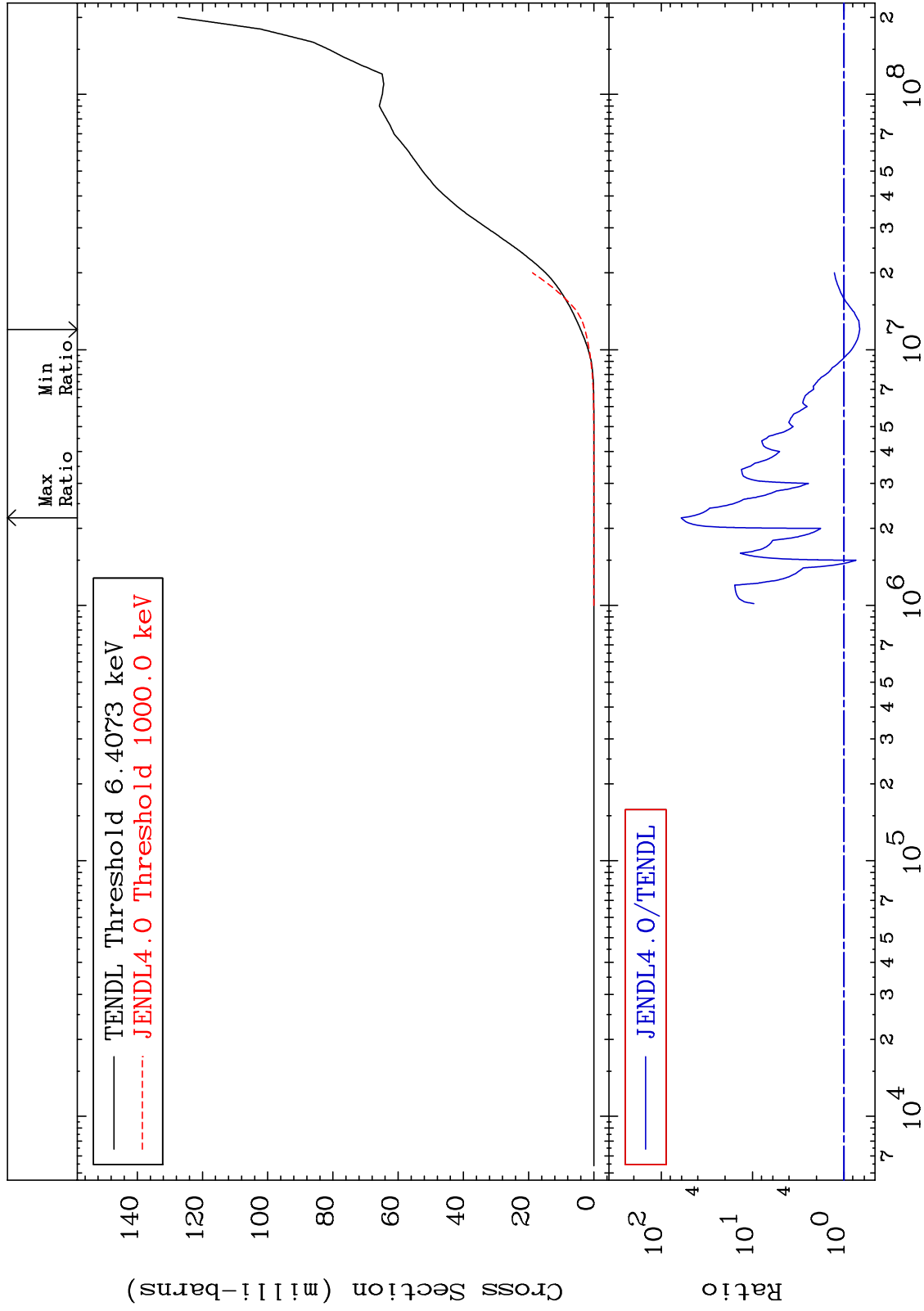
31-Ga-71
-73.75 To 9999. %



MAT 3131

He-4 Production
Cross Section

31-Ga-71
-32.90 To 5953. %



46

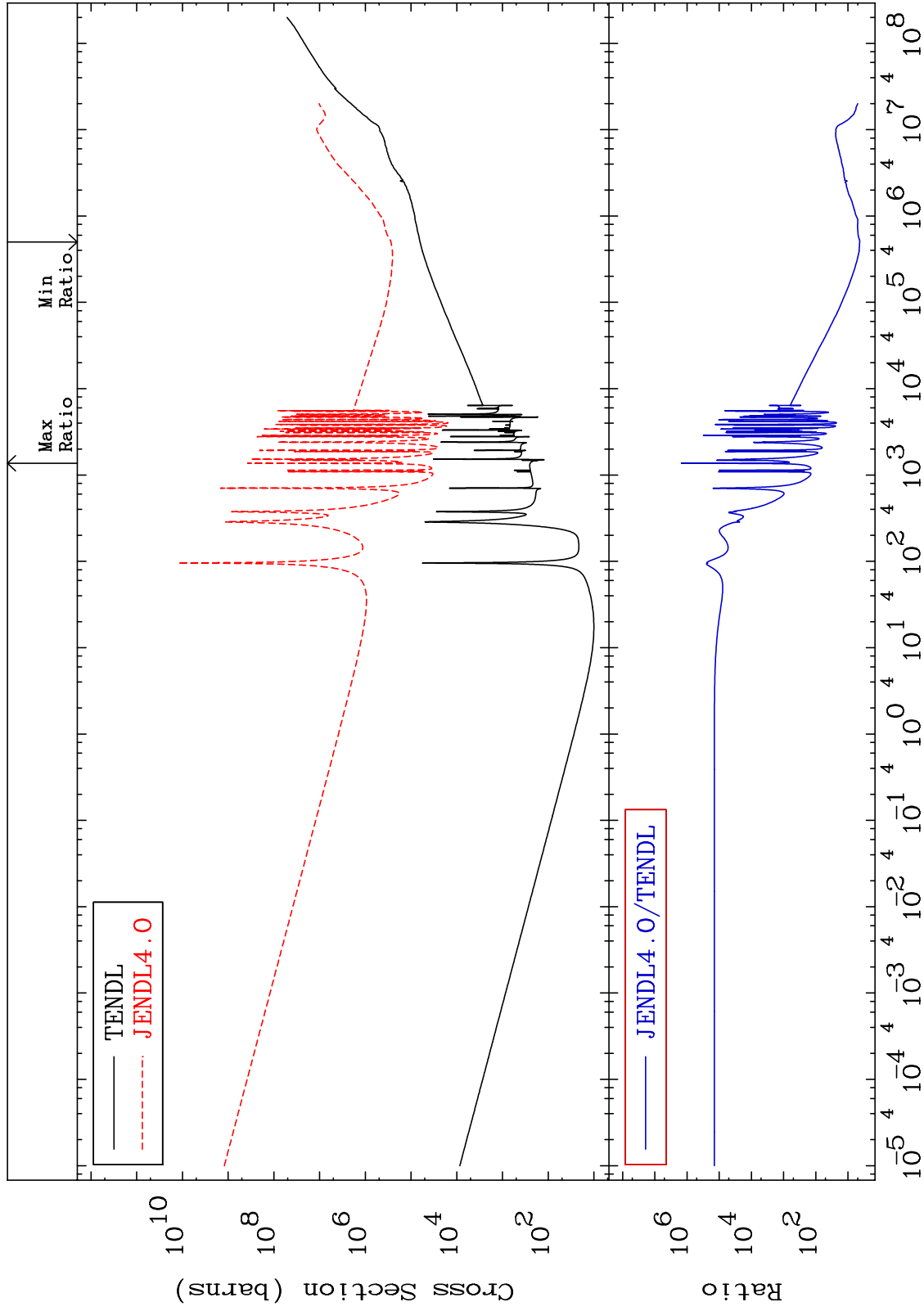
Incident Energy (eV)

31-Ga-71

MAT 3131

Kerma total (eV-barns)
Cross Section

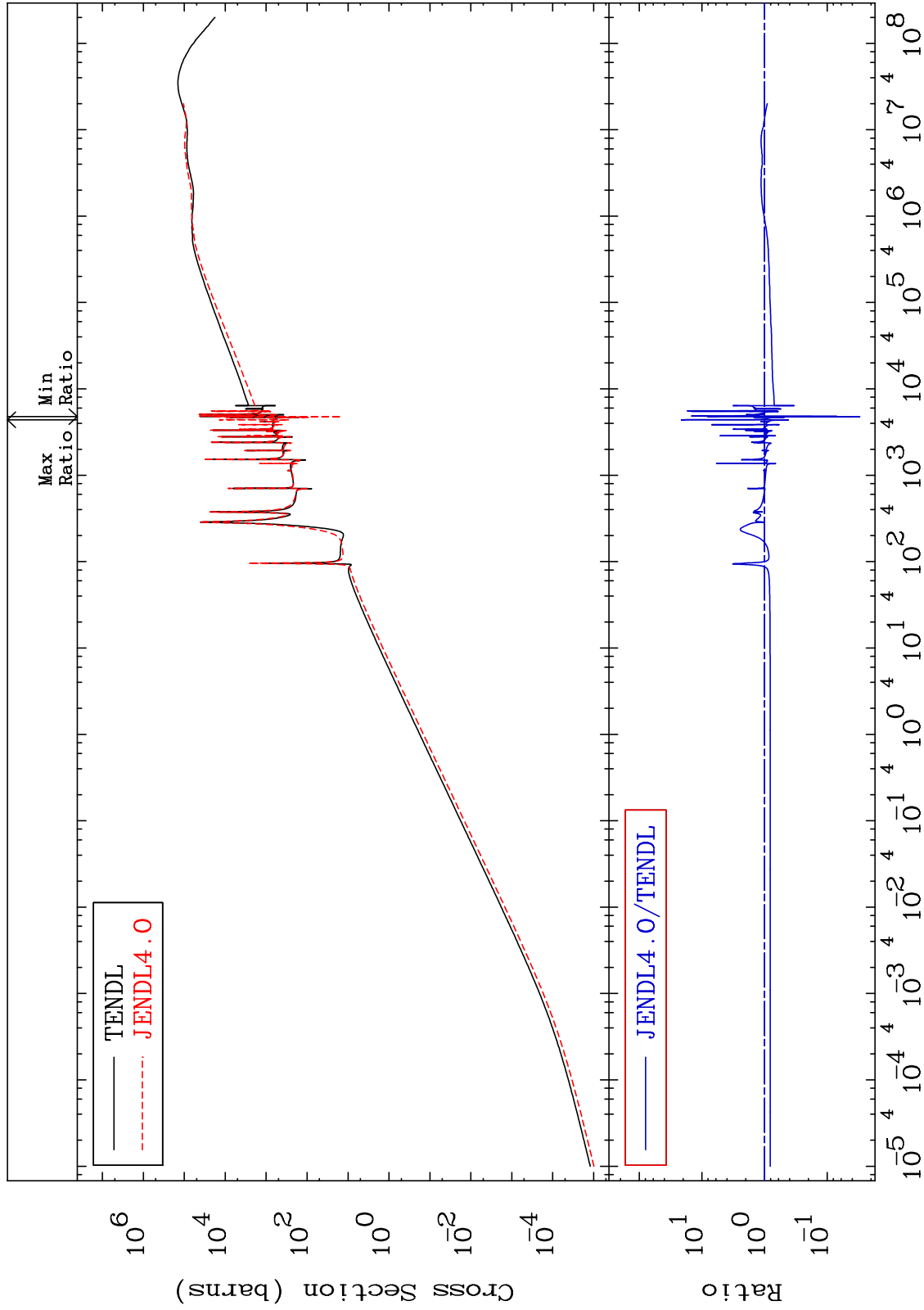
31-Ga-71
330.4 To 9999. %



MAT 3131

Kerma elastic
Cross Section

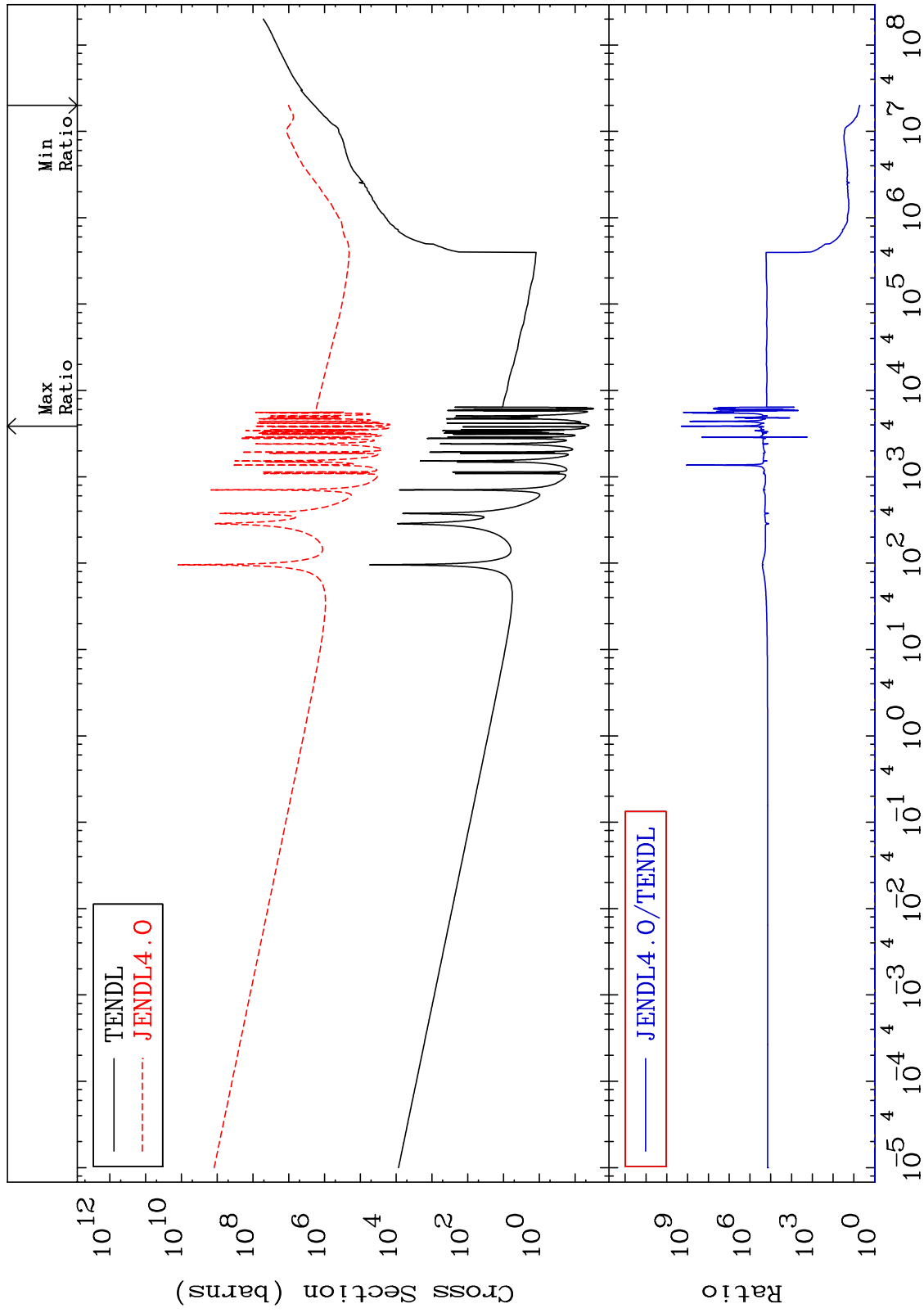
31-Ga-71
-96.97 To 2045. %



MAT 3131

Kerma non-elastic (all but mt2)
Cross Section

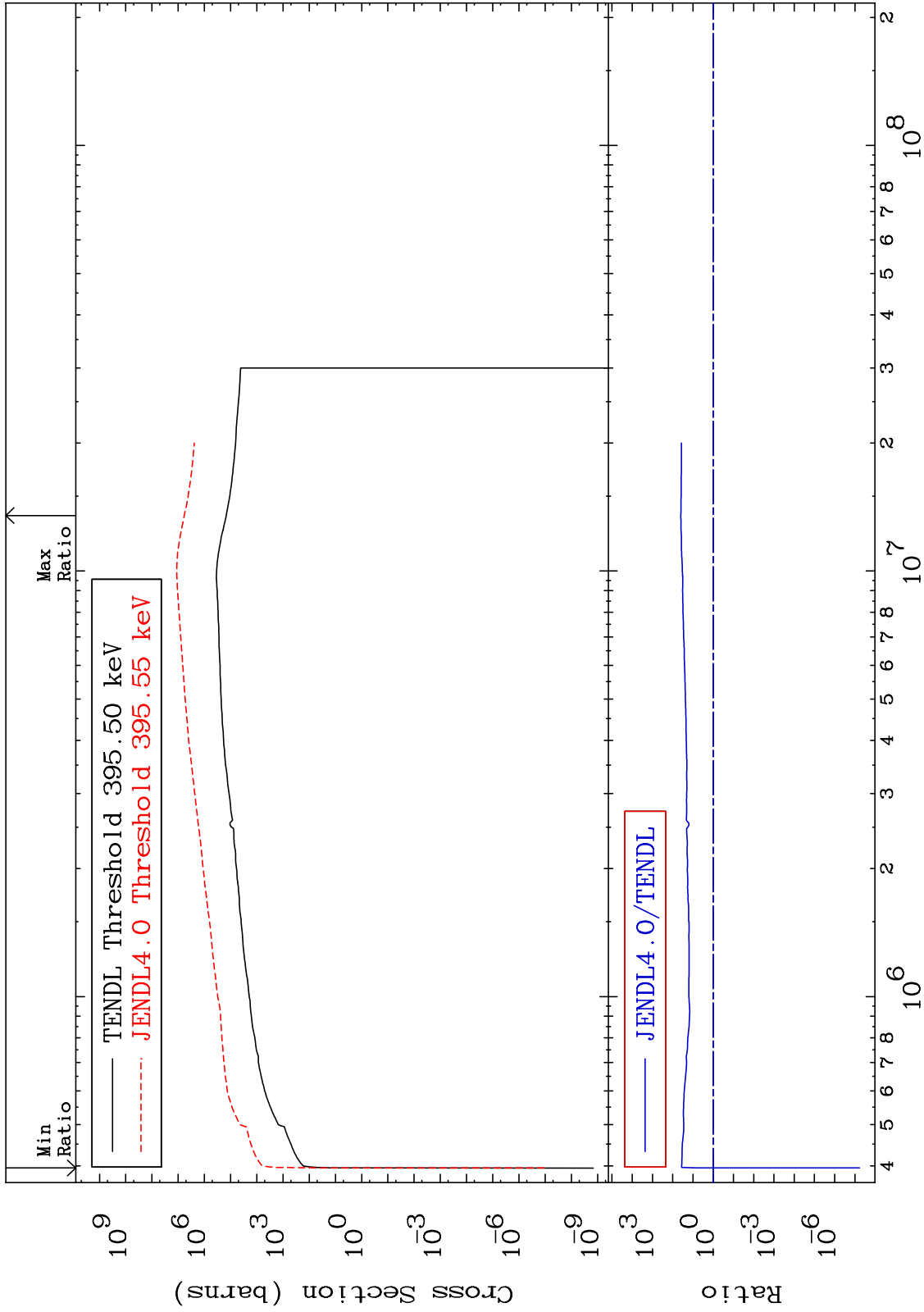
31-Ga-71
422.5 To 9999. %



MAT 3131

Kerma inelastic (mt51-91)
Cross Section

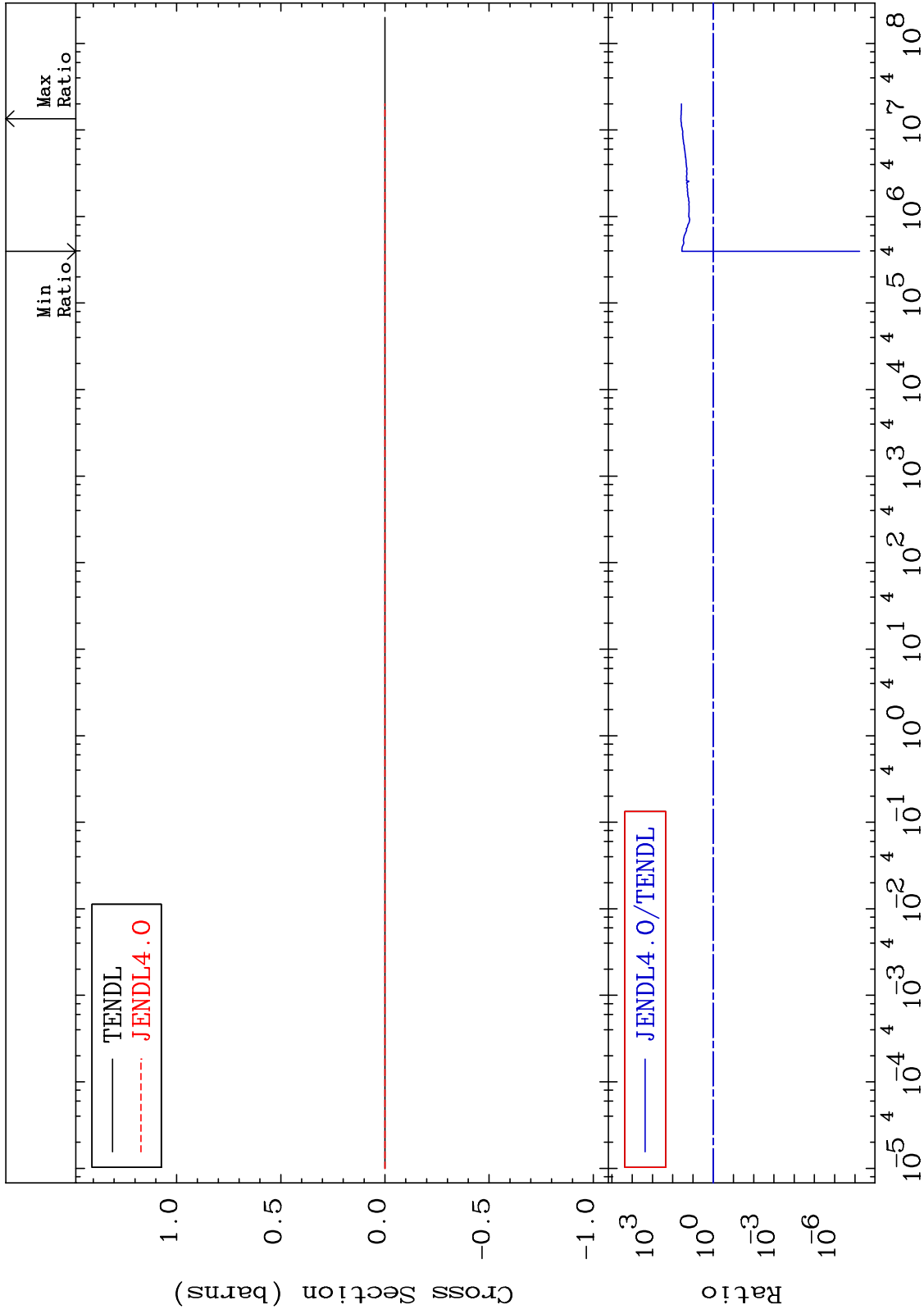
31-Ga-71
-100.0 To 3878. %



MAT 3131

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

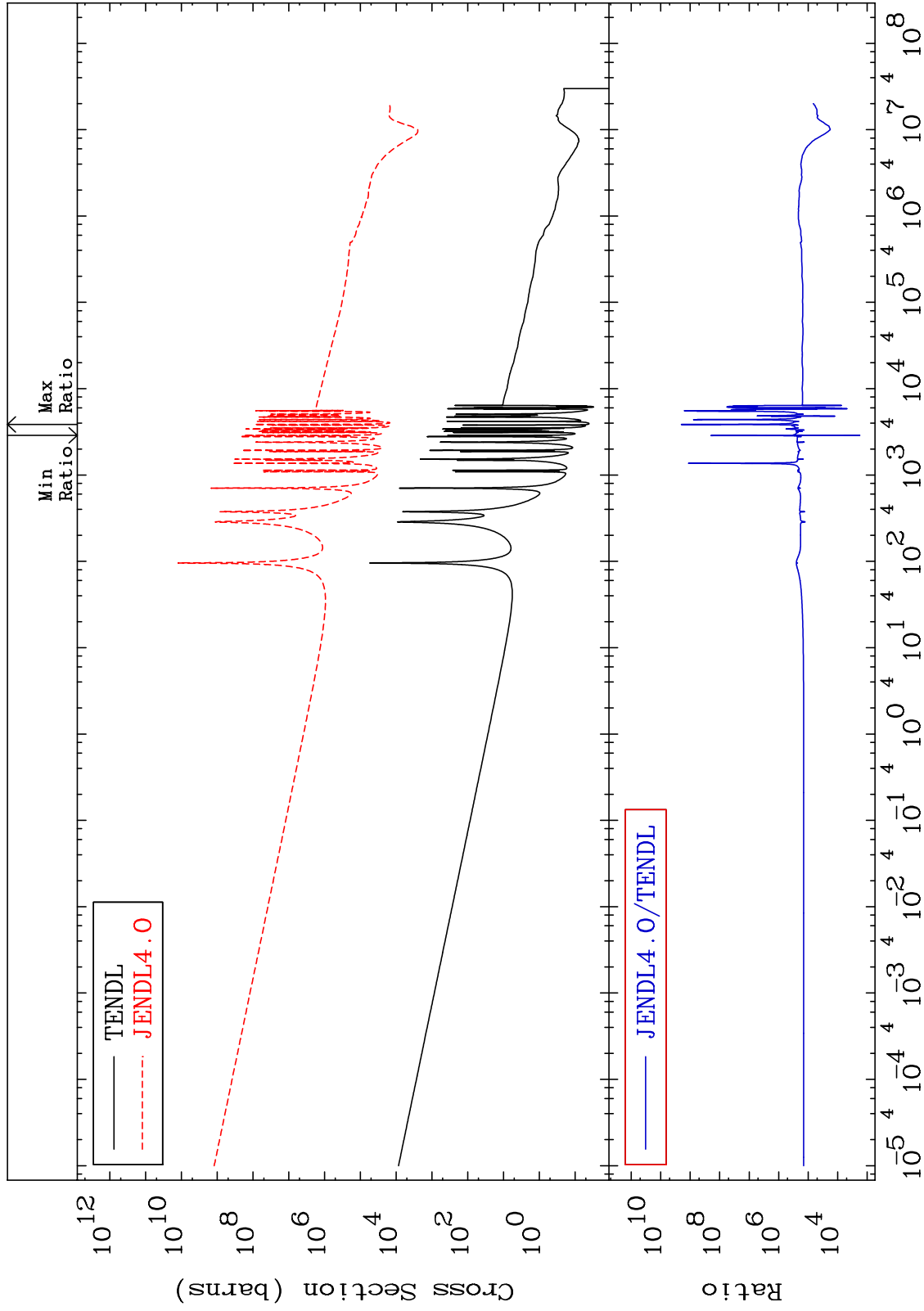
31-Ga-71
-100.0 To 3878. %



MAT 3131

Kerma capture (mt102)
Cross Section

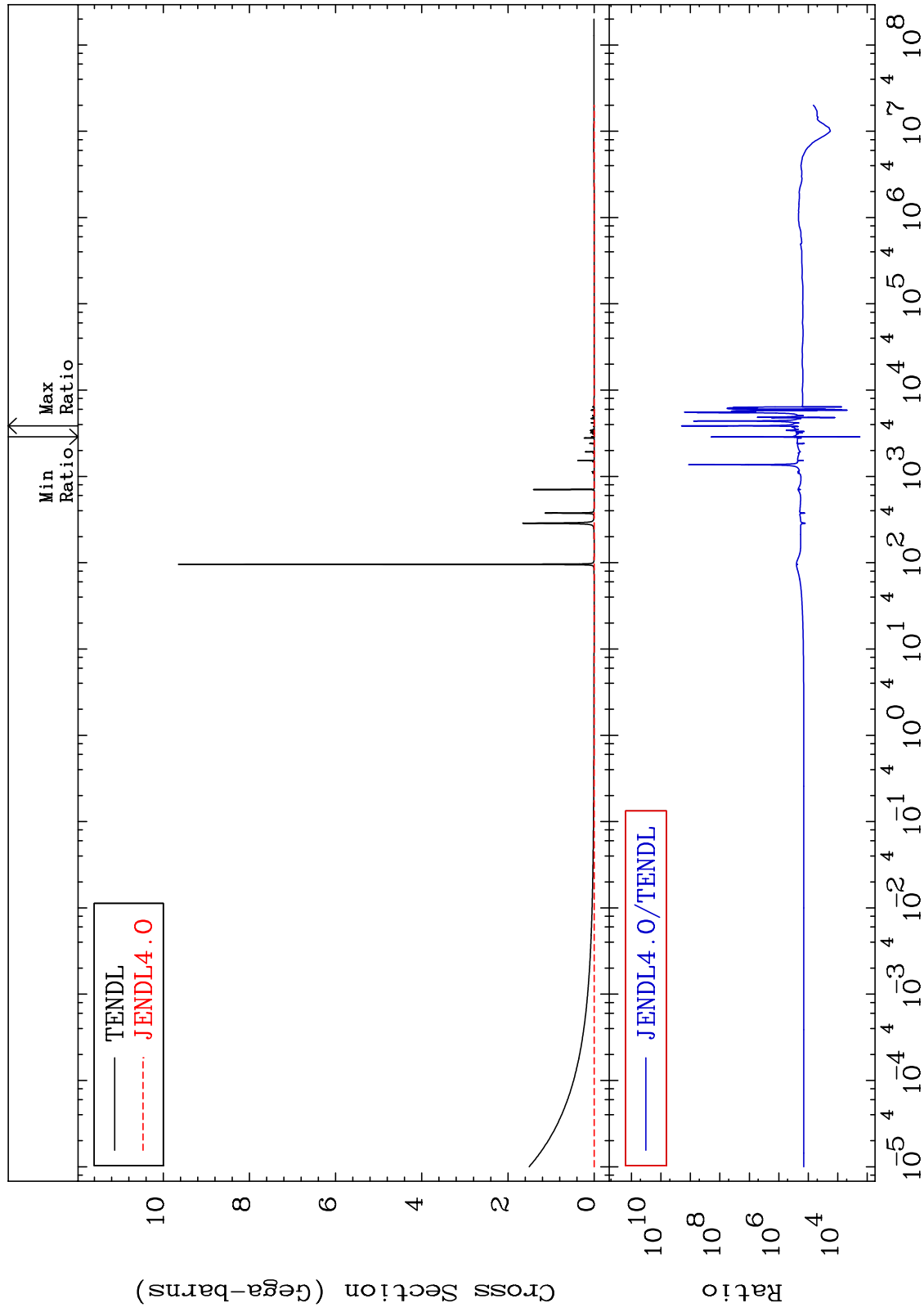
31-Ga-71
9999. To 9999. %



MAT 3131

Total photon (eV-barns)
Cross Section

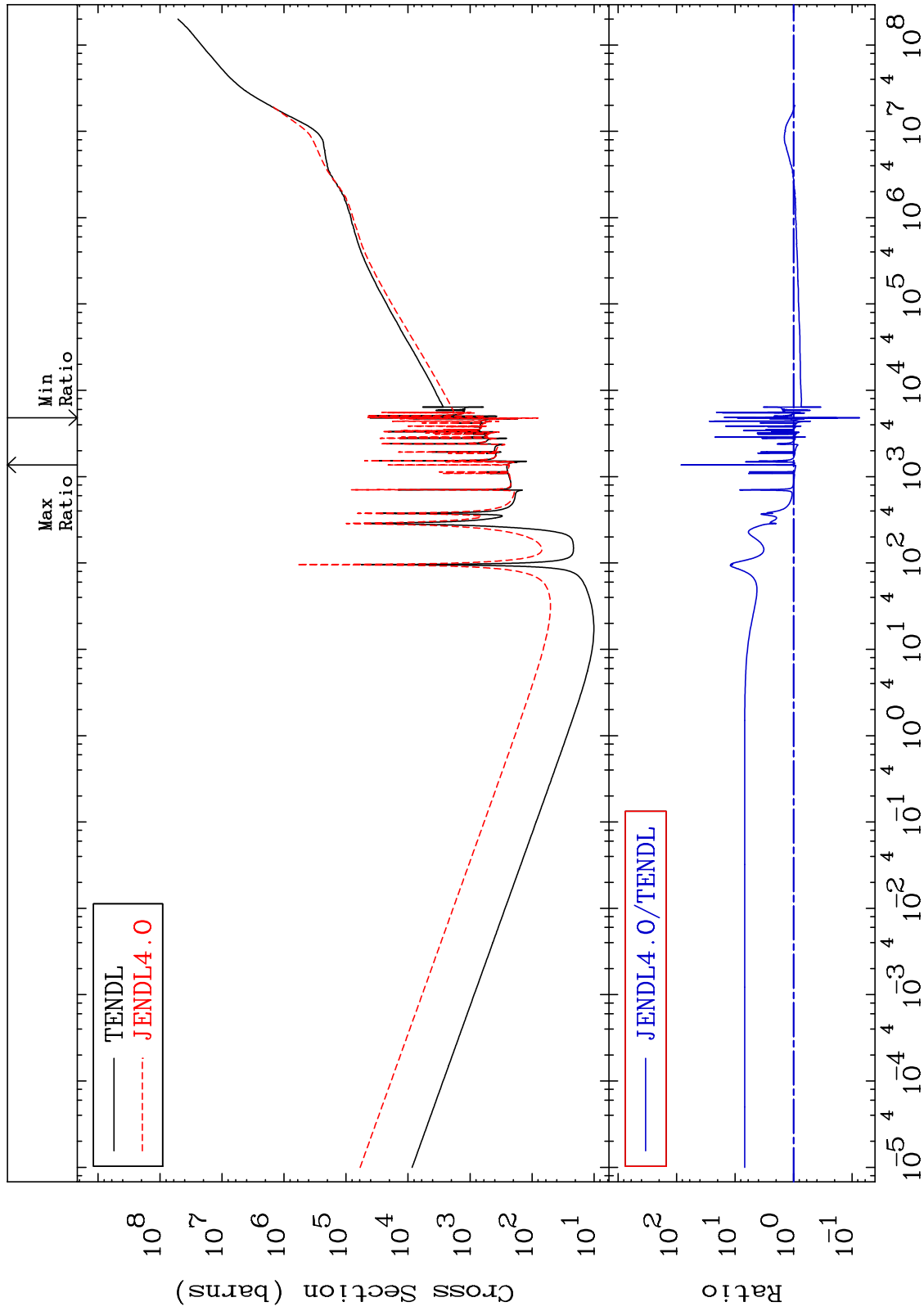
31-Ga-71
9999. To 9999. %



MAT 3131

Total kinematic kerma (high limit)
Cross Section

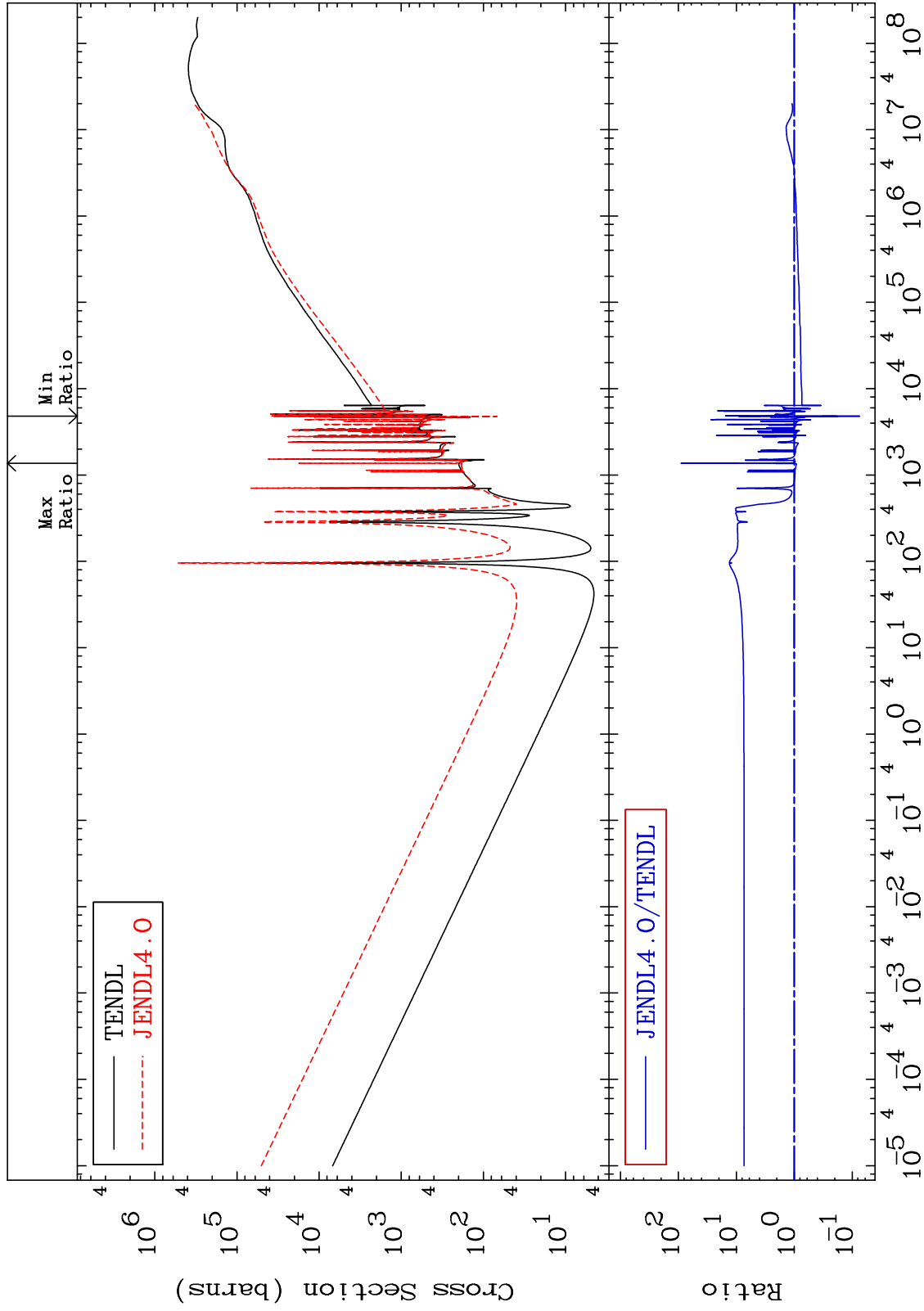
31-Ga-71
-92.59 To 8254. %



MAT 3131

Dpa total (eV-barns)
Cross Section

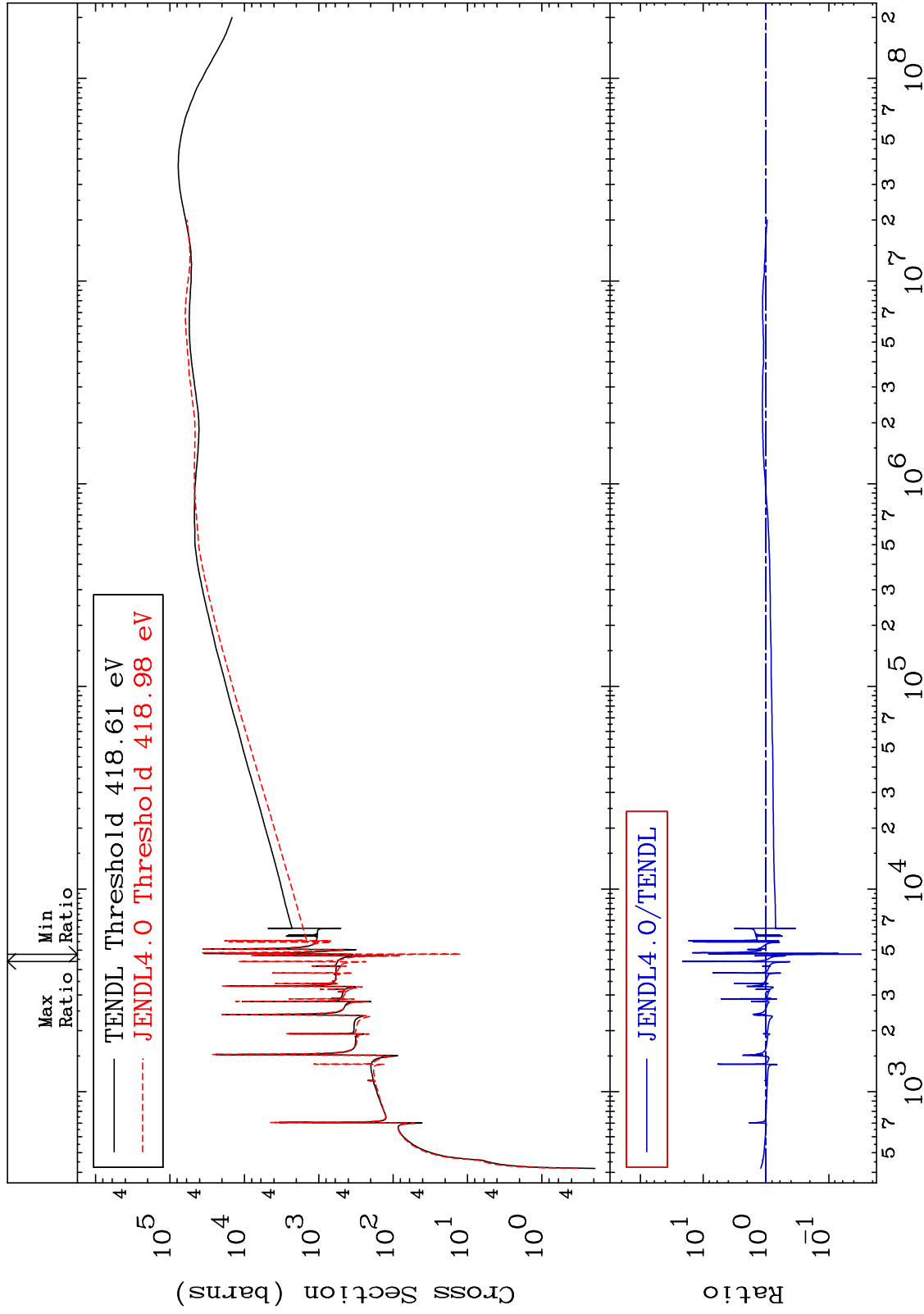
31-Ga-71
-92.58 To 8846. %



MAT 3131

Dpa elastic (mt2)
Cross Section

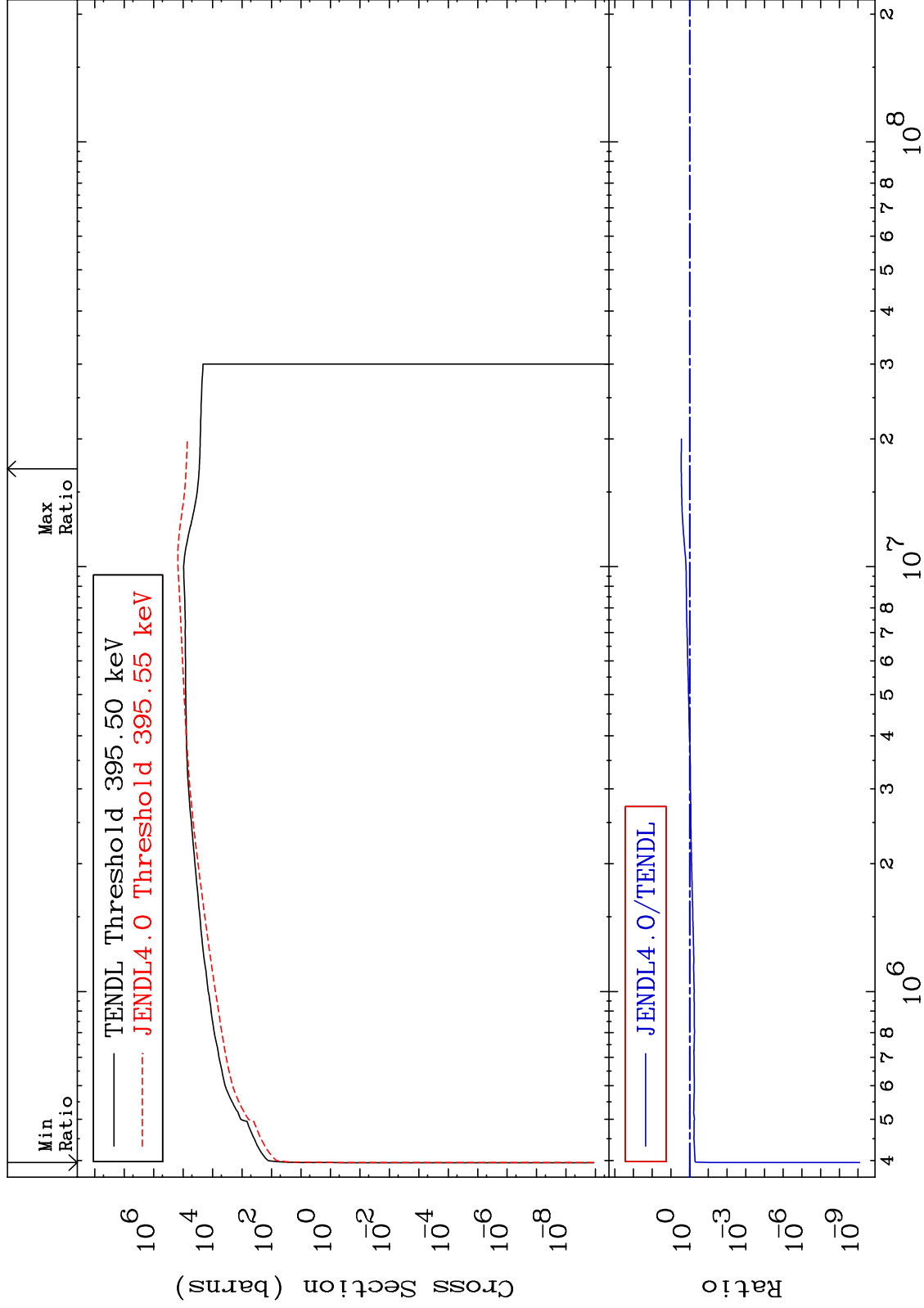
31-Ga-71
-96.97 To 2042. %



MAT 3131

Dpa inelastic (mt51-91)
Cross Section

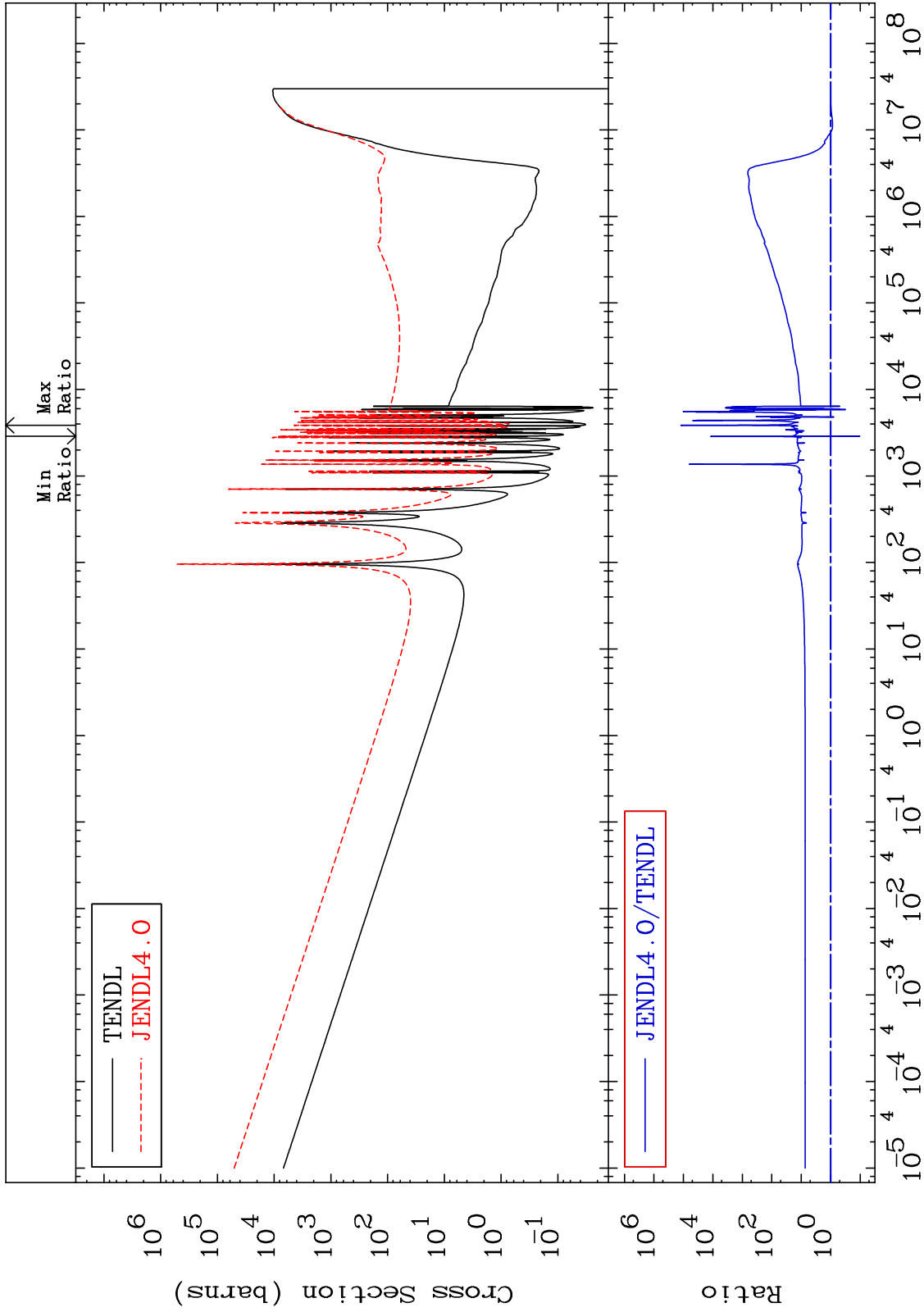
31-Ga-71
-100.0 To 179.3 %



MAT 3131

Dpa disappearance (mt102 -120)
Cross Section

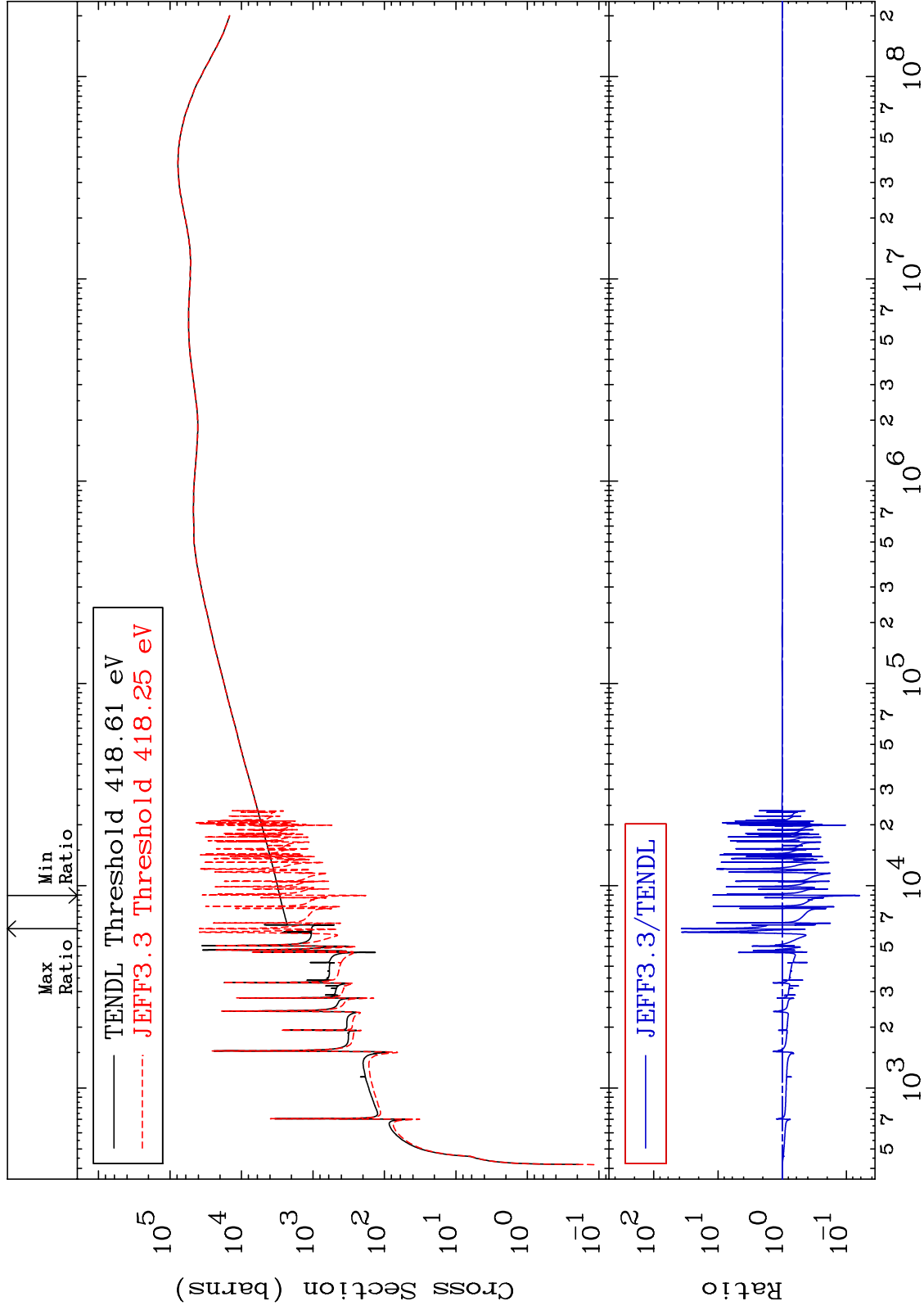
31-Ga-71
-89.54 To 9999. %



MAT 3131

Dpa elastic (mt2)
Cross Section

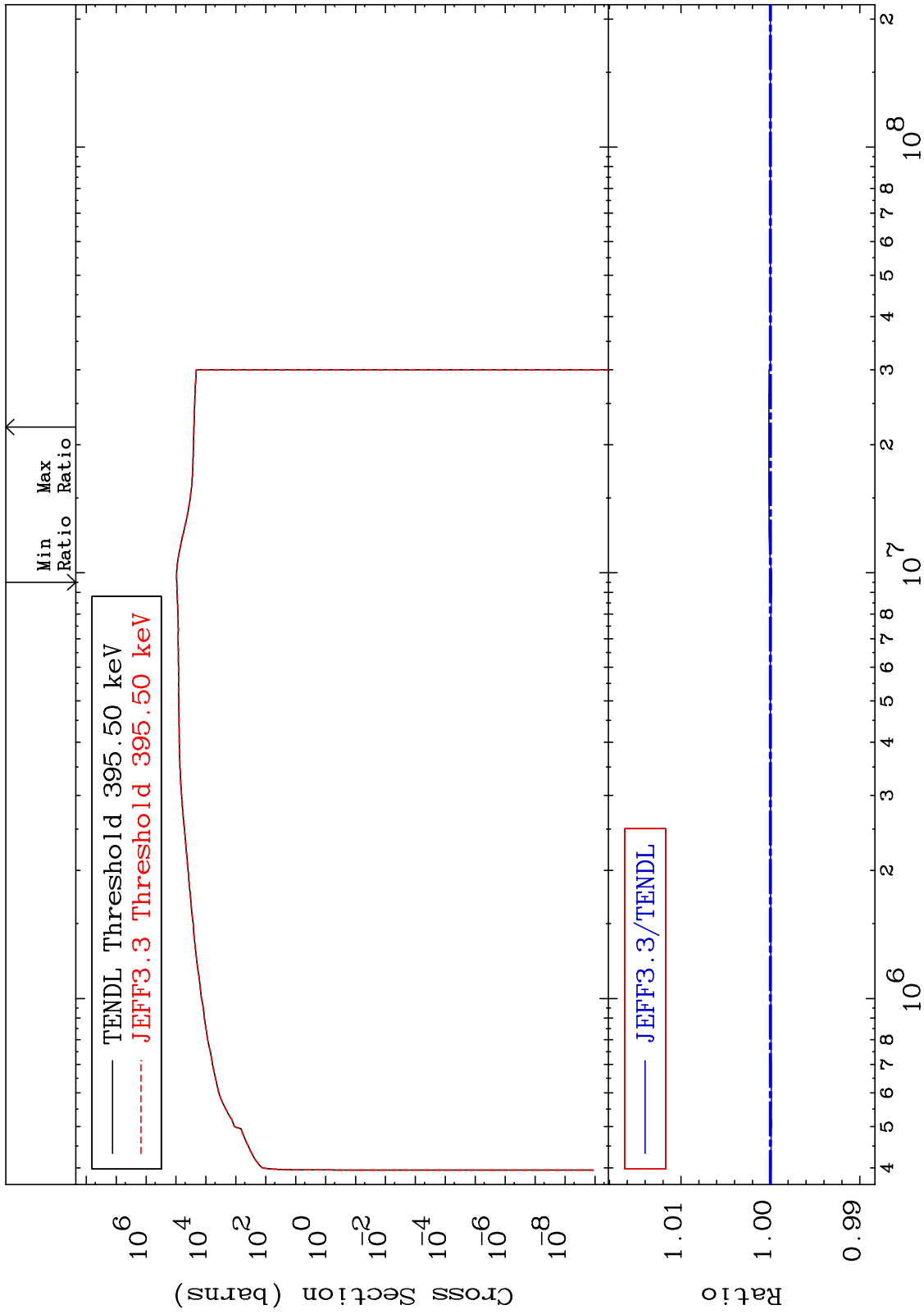
31-Ga-71
-93.79 To 3635. %



MAT 3131

Dpa inelastic (mt51-91)
Cross Section

31-Ga-71
-0.014 To 0.016 %



60

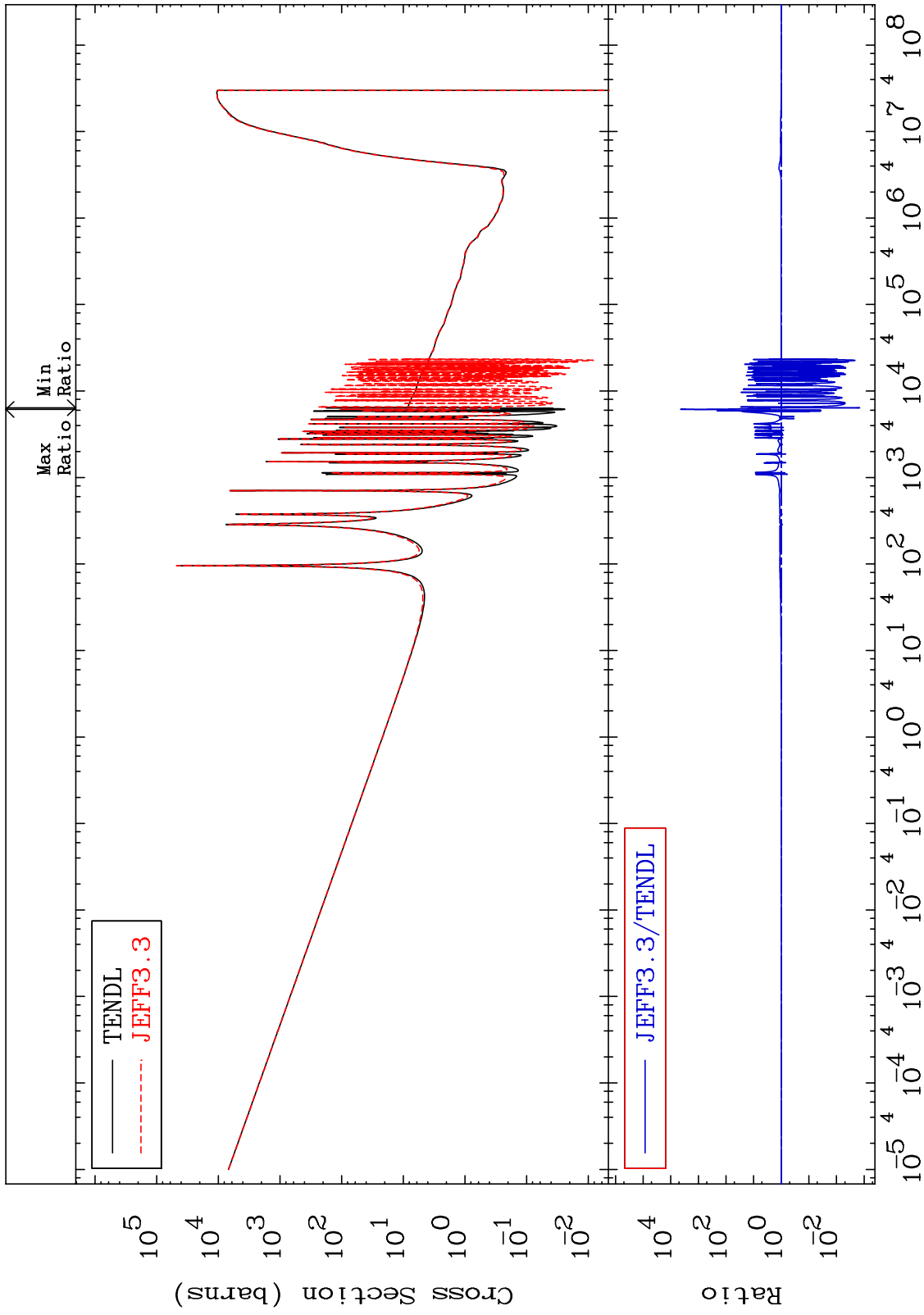
Incident Energy (eV)

31-Ga-71

MAT 3131

Dpa disappearance (mt102 -120)
Cross Section

31-Ga-71
-99.85 To 9999. %

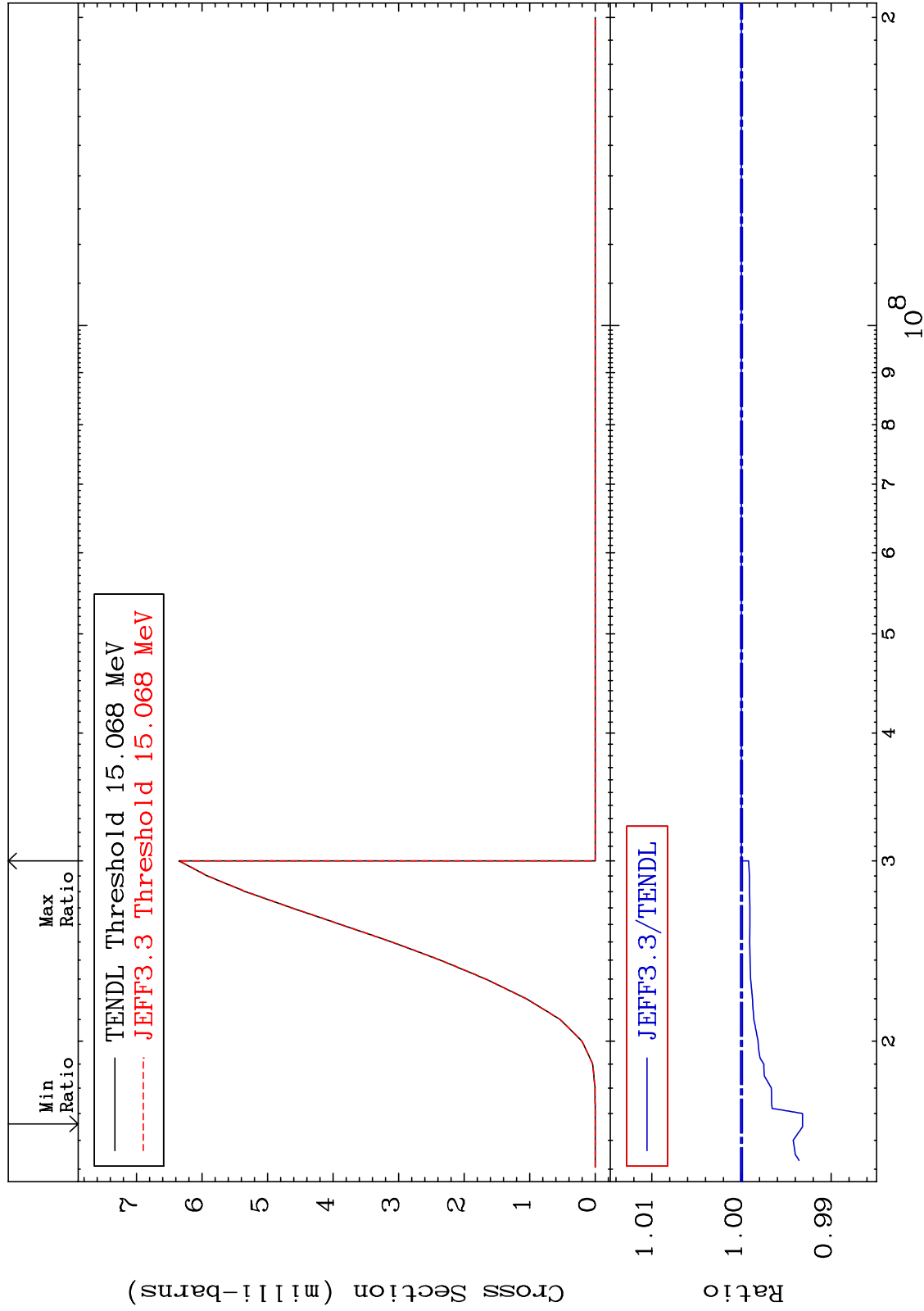


MAT 3131

(n, n') d:30-Zn-69g

31-Ga-71

Radionuclide Production Cross Section -0.681 To 0.000 %



62

Incident Energy (eV)

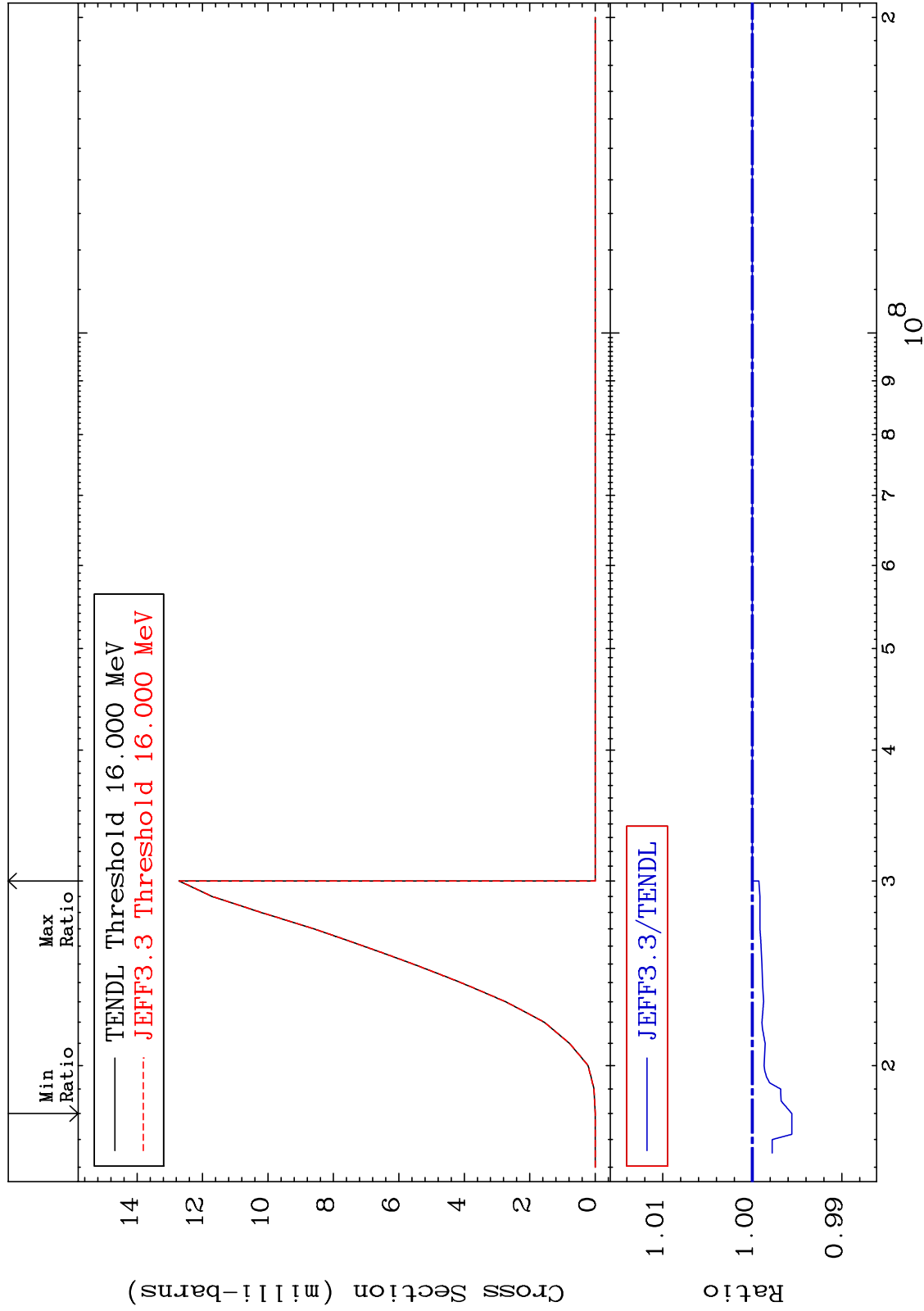
31-Ga-71

MAT 3131

(n, n') d:30-Zn-69m1

31-Ga-71

Radionuclide Production Cross Section -0.442 To 0.000 %



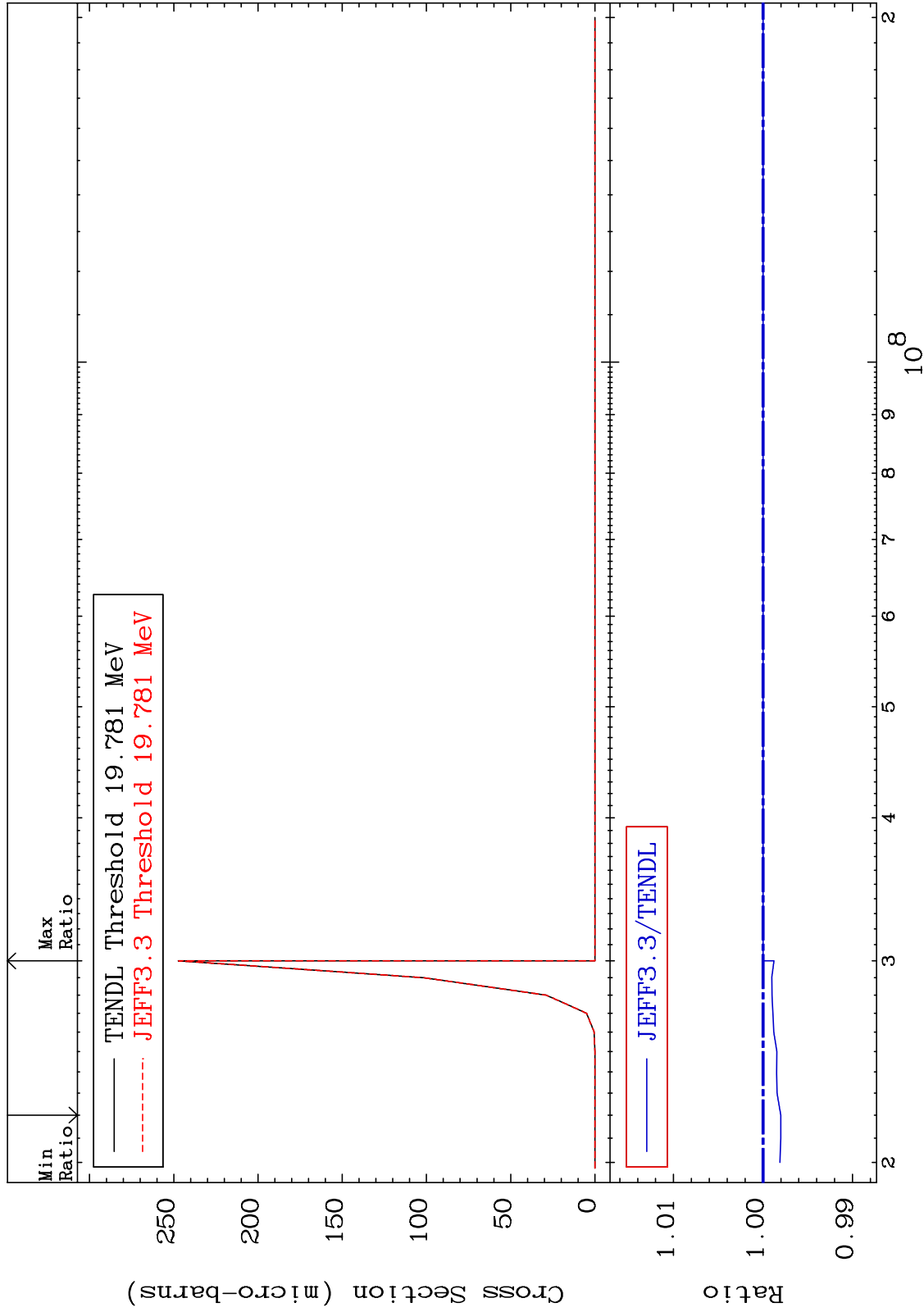
63

Incident Energy (eV)

31-Ga-71

MAT 3131

(n,n') He-3:29-Cu-68g 31-Ga-71
Radionuclide Production Cross Section -0.198 To 0.000 %

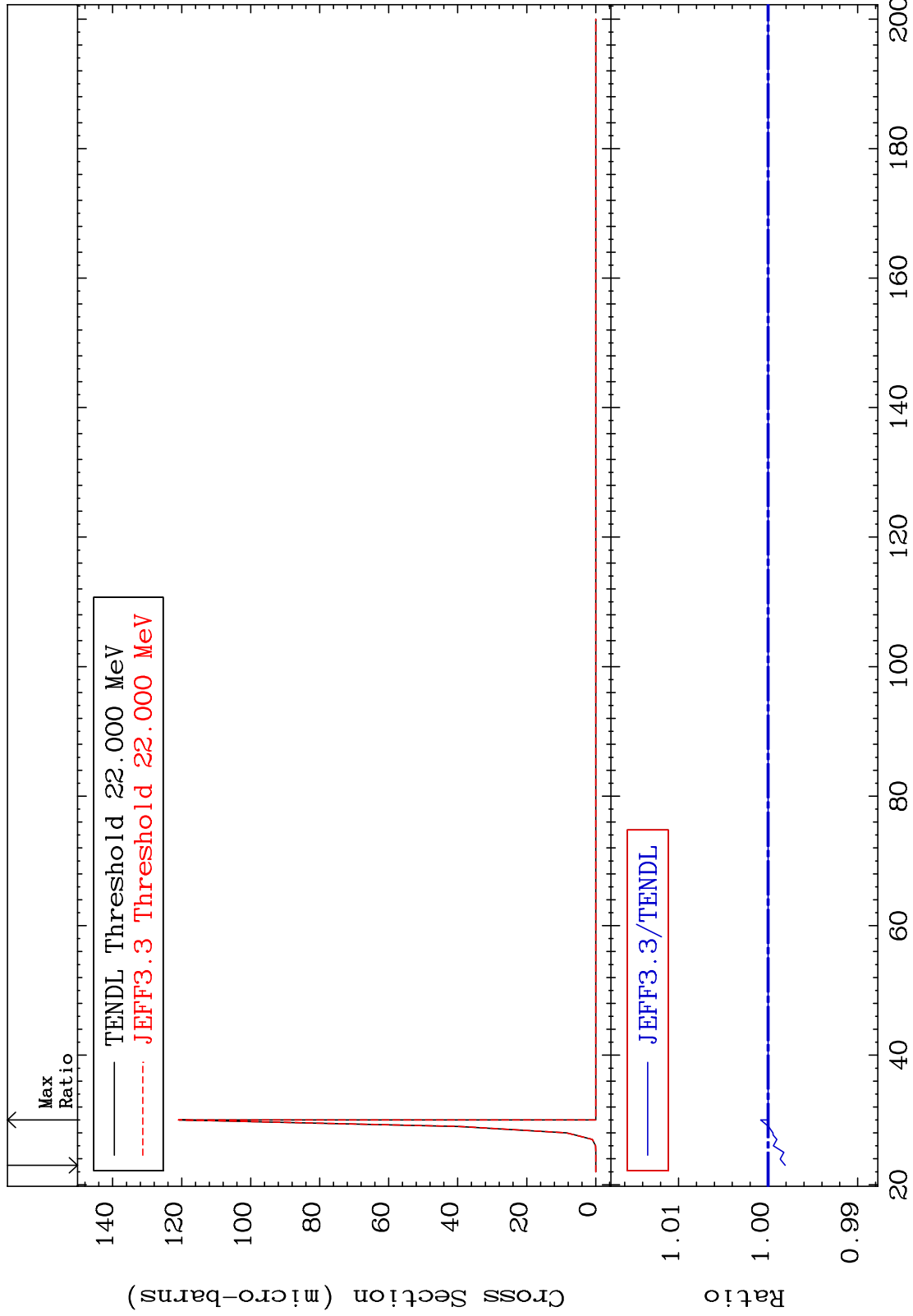


MAT 3131

(n,n') He-3:29-Cu-68m3

31-Ga-71

Radionuclide Production Cross Section -0.191 To 0.083 %



65

Incident Energy (MeV)

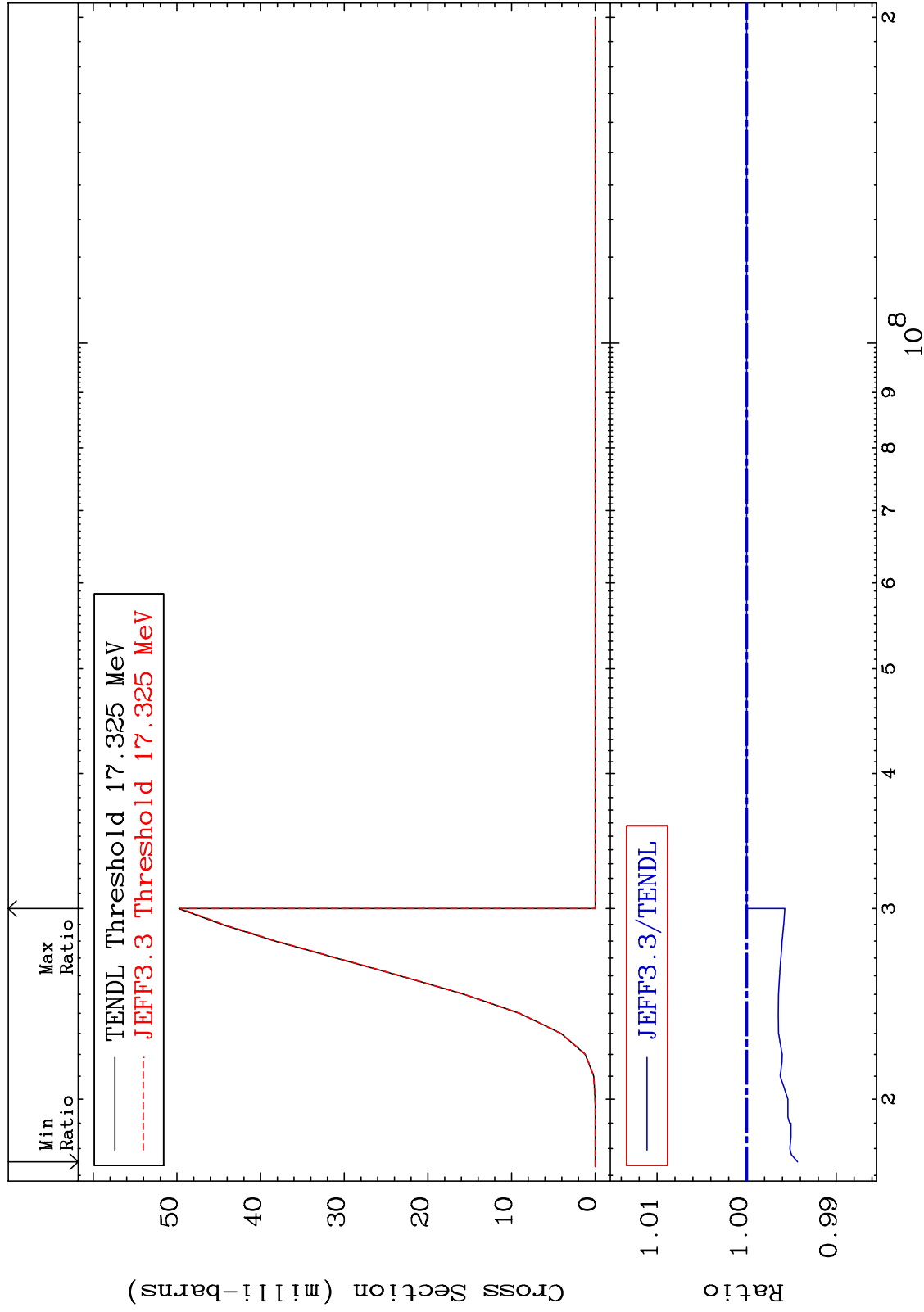
31-Ga-71

MAT 3131

(n,2n) p:30-Zn-69g

31-Ga-71

Radionuclide Production Cross Section -0.568 To 0.000 %

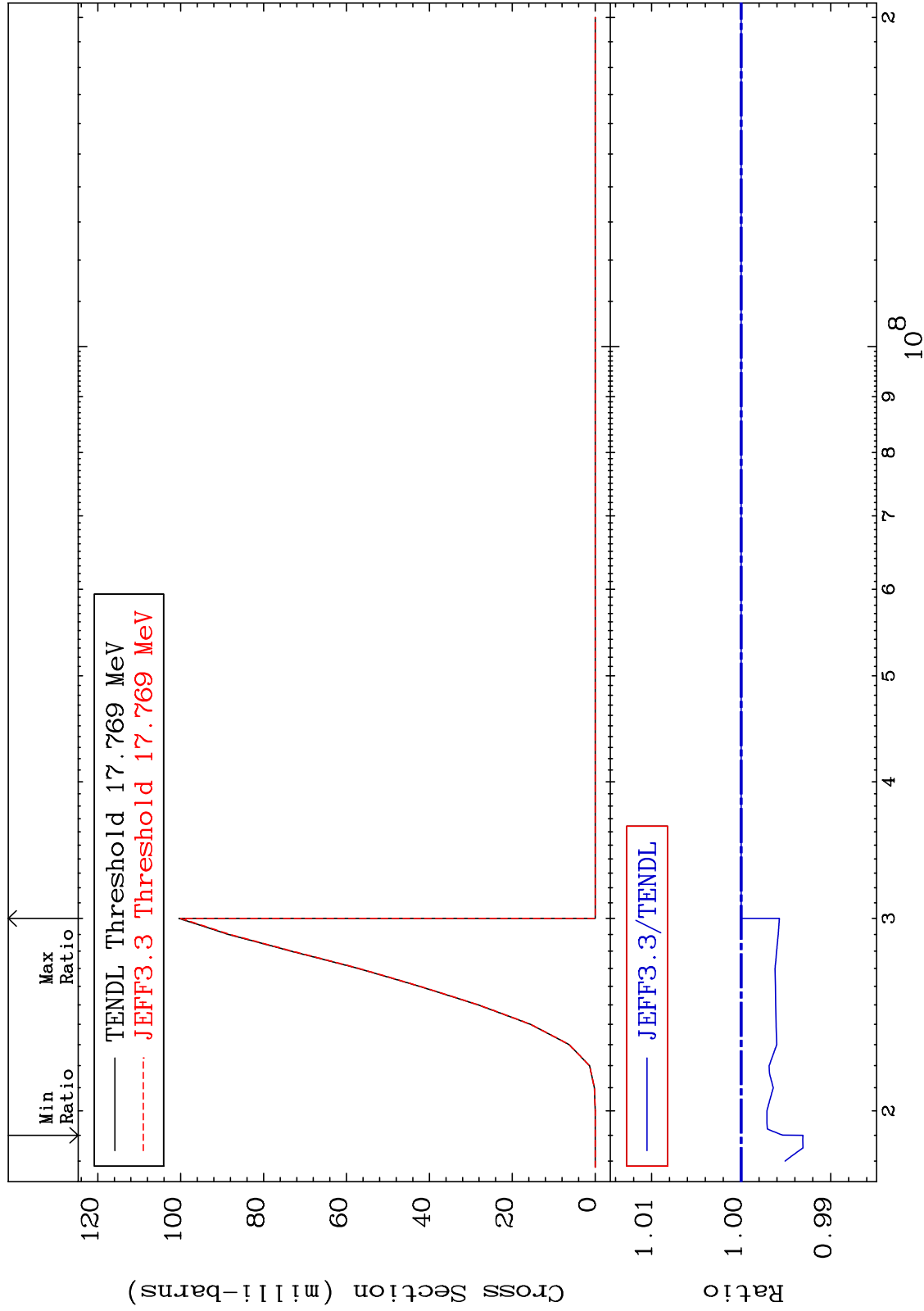


MAT 3131

(n,2n) p:30-Zn-69m1

31-Ga-71

Radionuclide Production Cross Section -0.688 To 0.000 %



67

Incident Energy (eV)

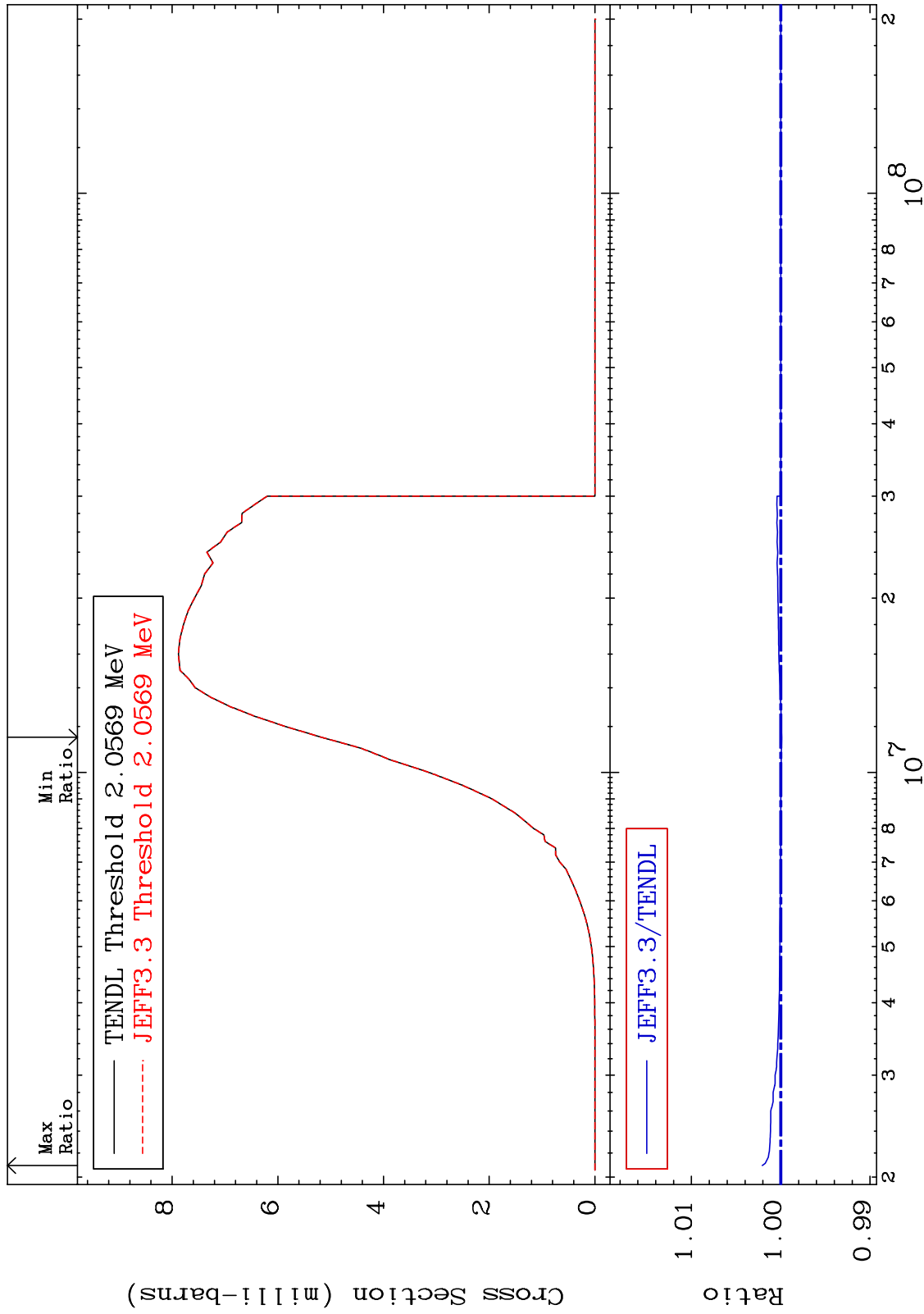
31-Ga-71

MAT 3131

(n,p):30-Zn-71g

31-Ga-71

Radionuclide Production Cross Section -0.010 To 0.209 %



68

Incident Energy (eV)

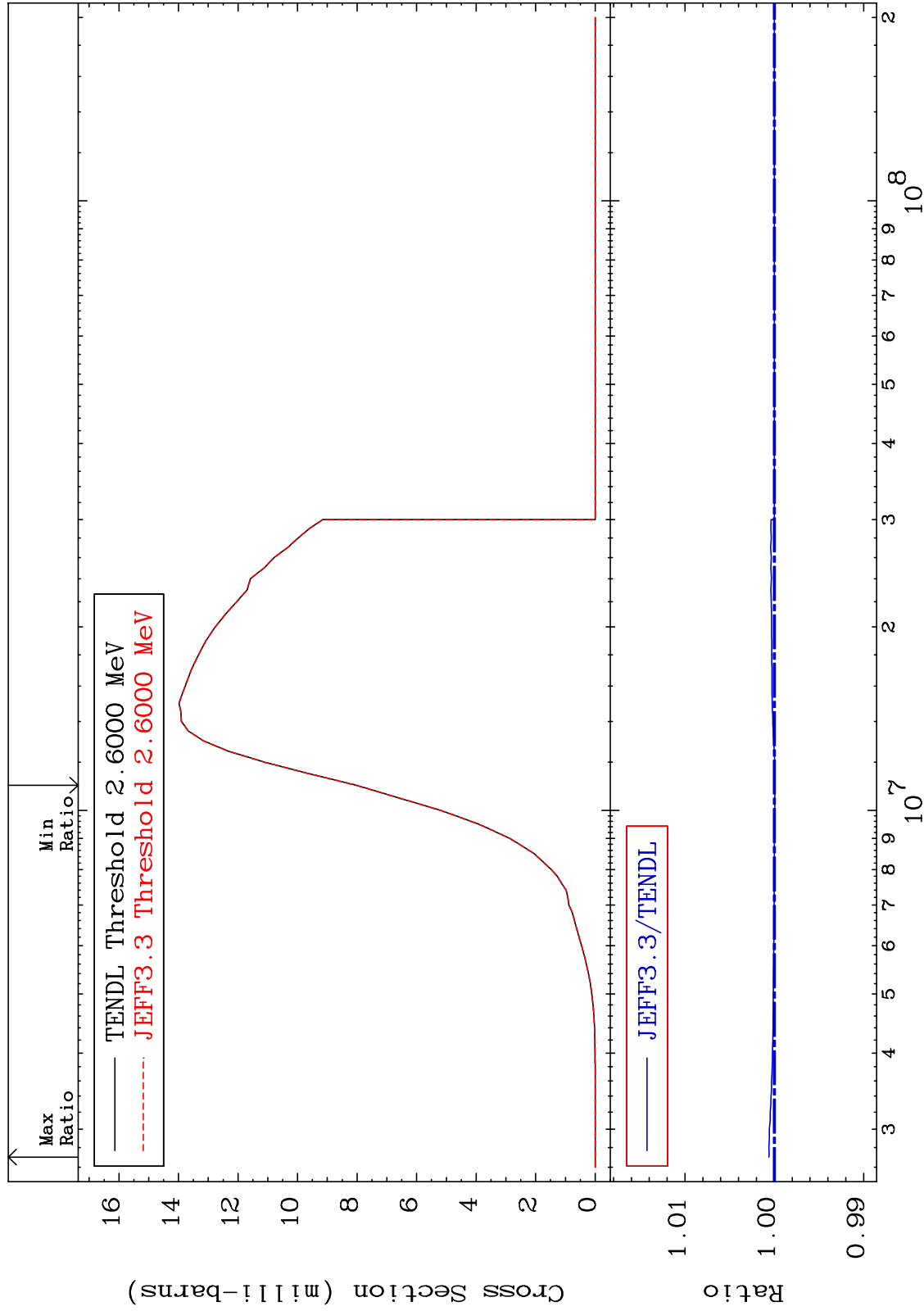
31-Ga-71

MAT 3131

(n,p):30-Zn-71m1

31-Ga-71

Radionuclide Production Cross Section -0.008 To 0.059 %

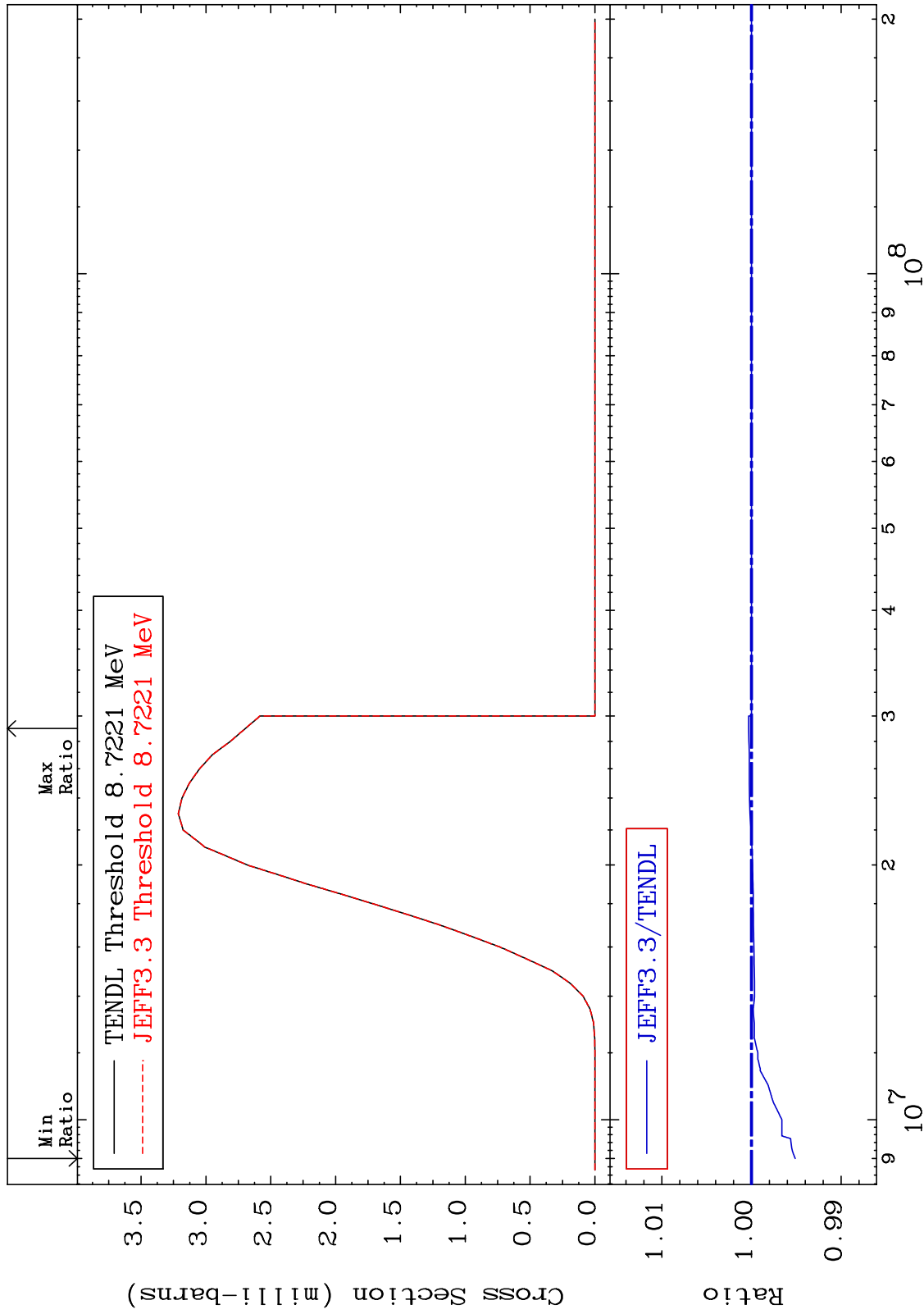


MAT 3131

(n, t): 30-Zn-69g

31-Ga-71

Radionuclide Production Cross Section -0.487 To 0.033 %



70

Incident Energy (eV)

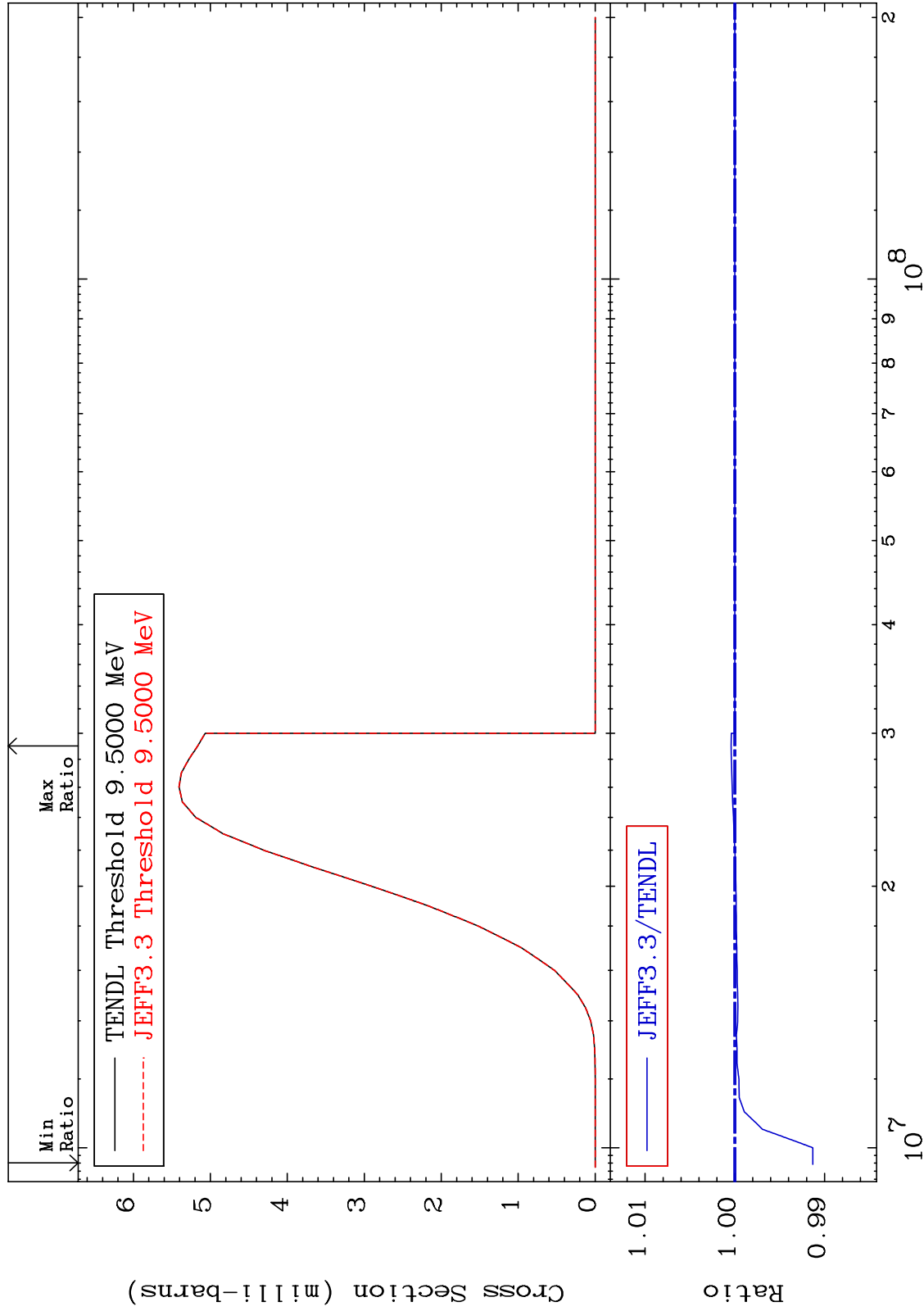
31-Ga-71

MAT 3131

(n, t) : 30-Zn-69m1

31-Ga-71

Radionuclide Production Cross Section -0.870 To 0.041 %



71

Incident Energy (eV)

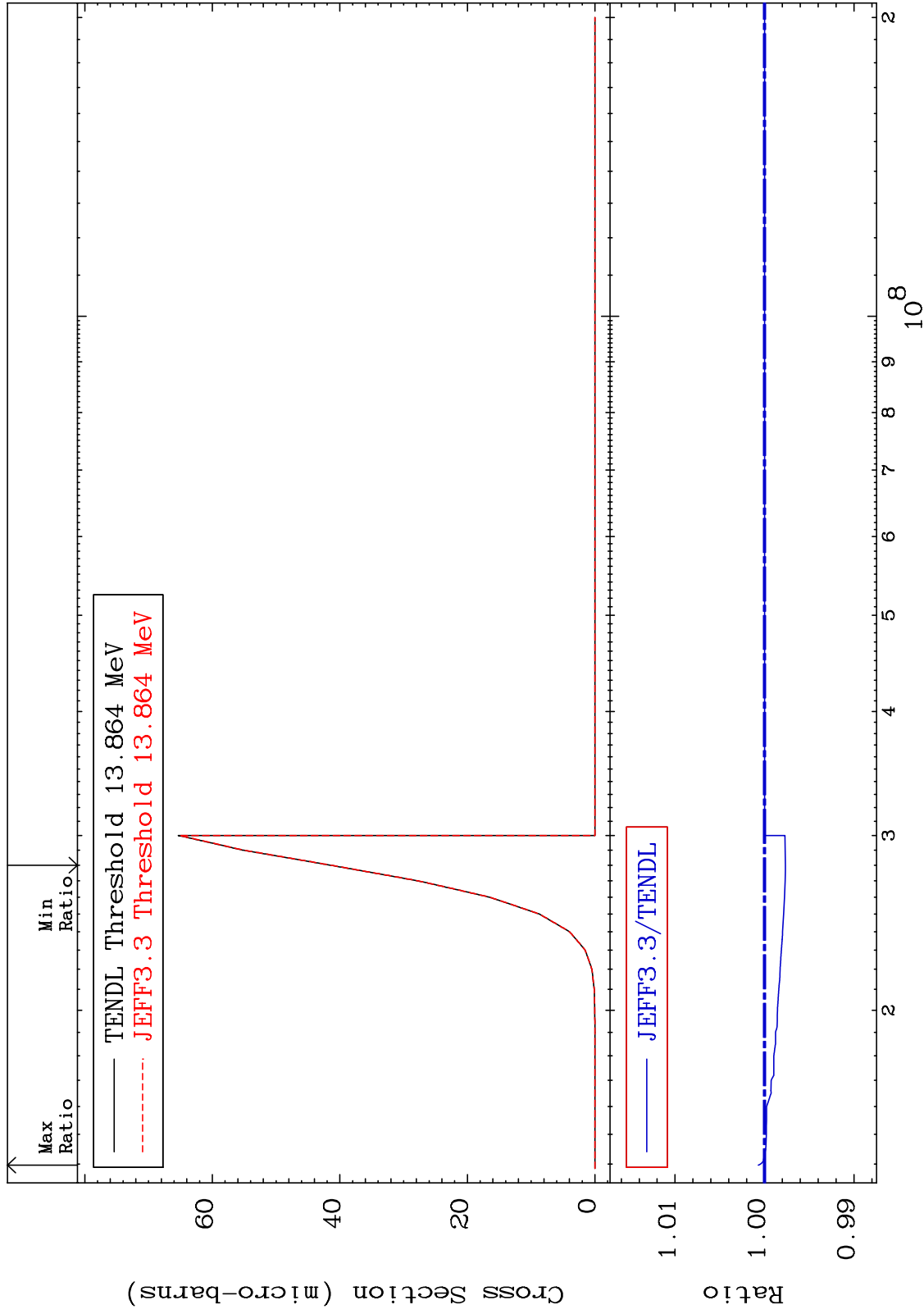
31-Ga-71

MAT 3131

(n,2p):29-Cu-70g

31-Ga-71

Radionuclide Production Cross Section -0.234 To 0.069 %



72

Incident Energy (eV)

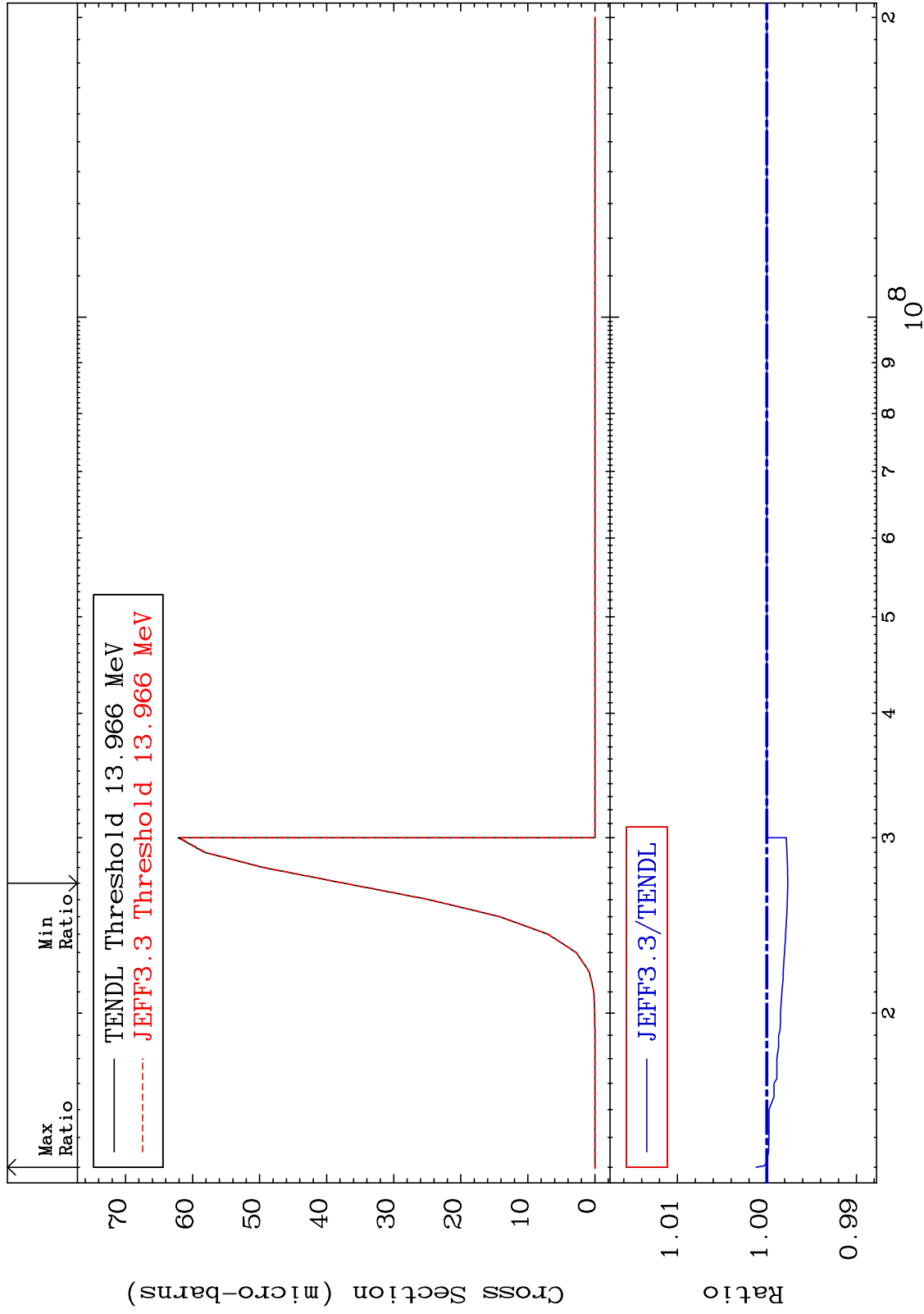
31-Ga-71

MAT 3131

(n,2p):29-Cu-70m1

31-Ga-71

Radionuclide Production Cross Section -0.233 To 0.121 %



73

Incident Energy (eV)

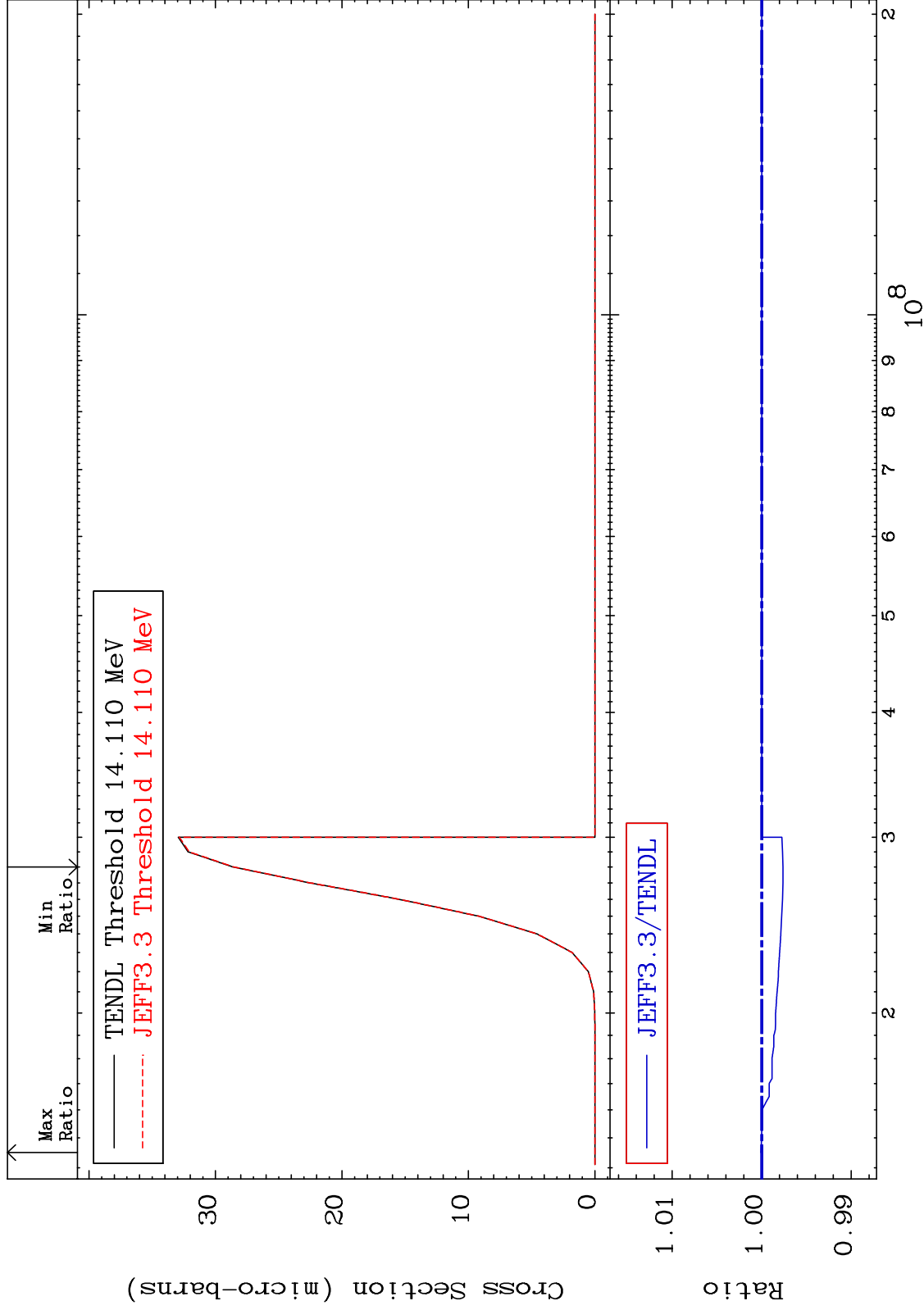
31-Ga-71

MAT 3131

(n,2p):29-Cu-70m3

31-Ga-71

Radionuclide Production Cross Section -0.237 To 0.009 %



MAT 3131

(n,p) t:29-Cu-68g

31-Ga-71

Radionuclide Production Cross Section -0.457 To 0.026 %

