

Program Complot
(Version 2021-1)

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

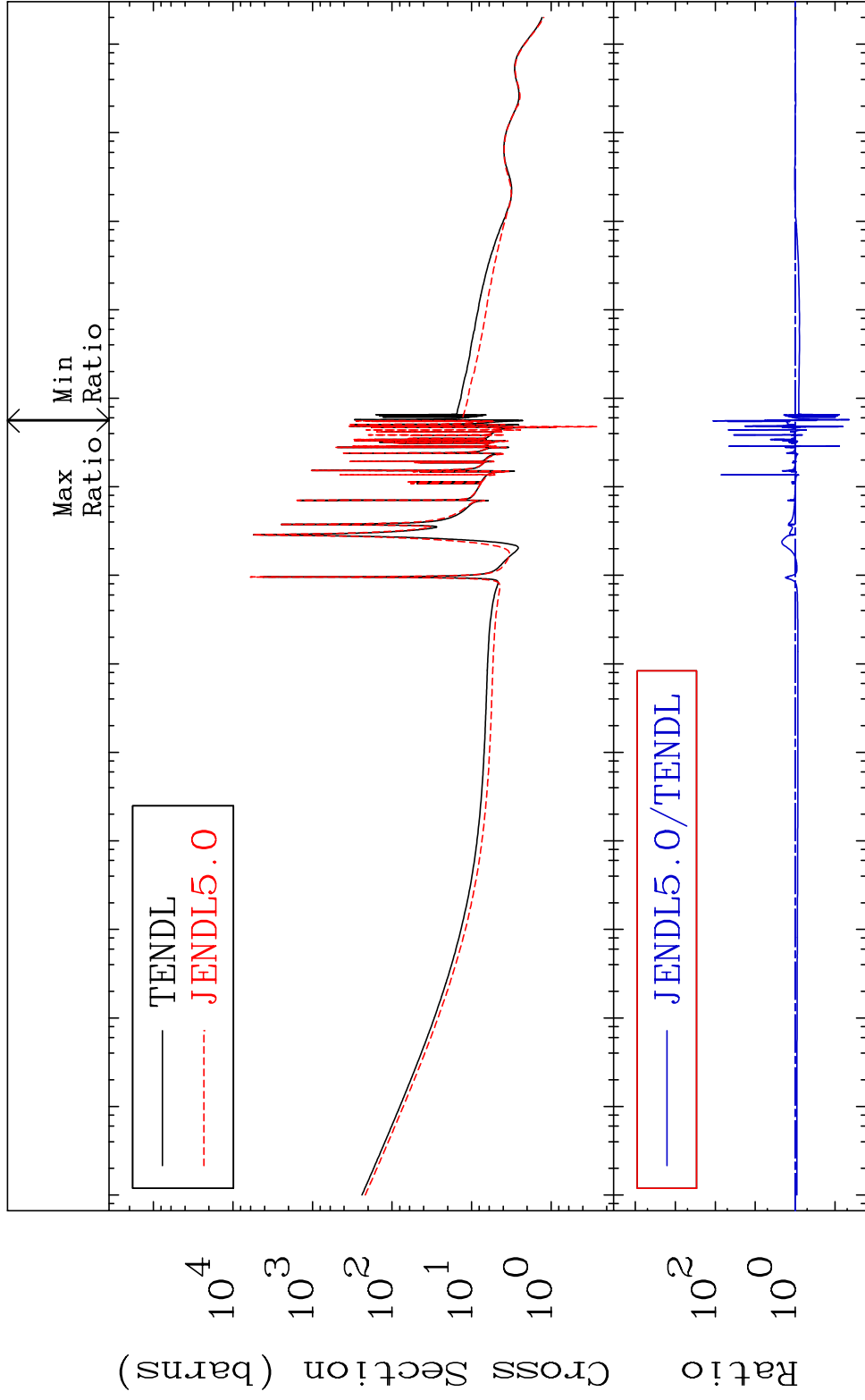
Press Mouse Button to Start

MAT 3131

Total

31-Ga-71

Cross Section -95.57 To 9999. %



10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

1

Incident Energy (eV)

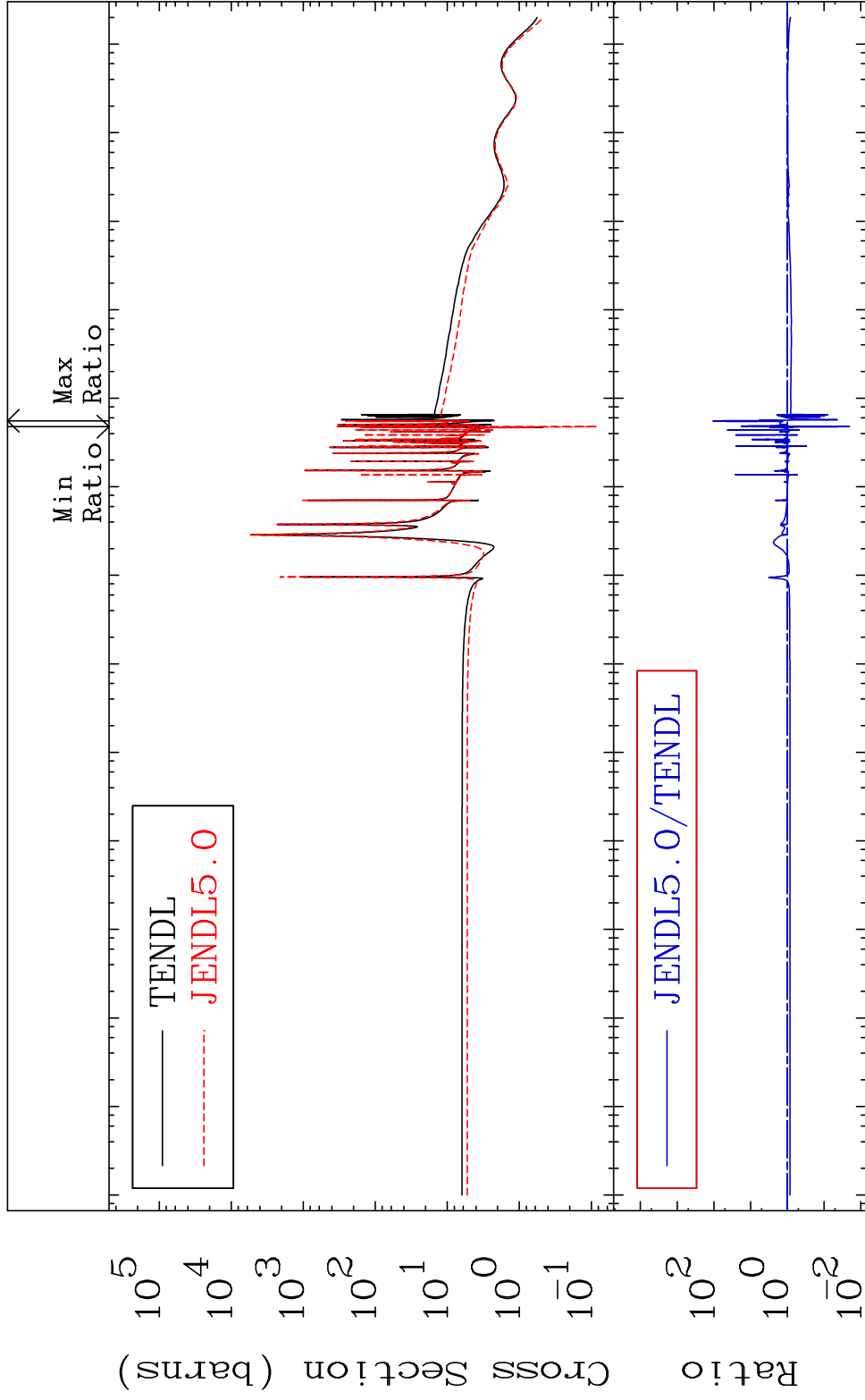
31-Ga-71

MAT 3131

Elastic

31-Ga-71

Cross Section -97.94 To 9999. %

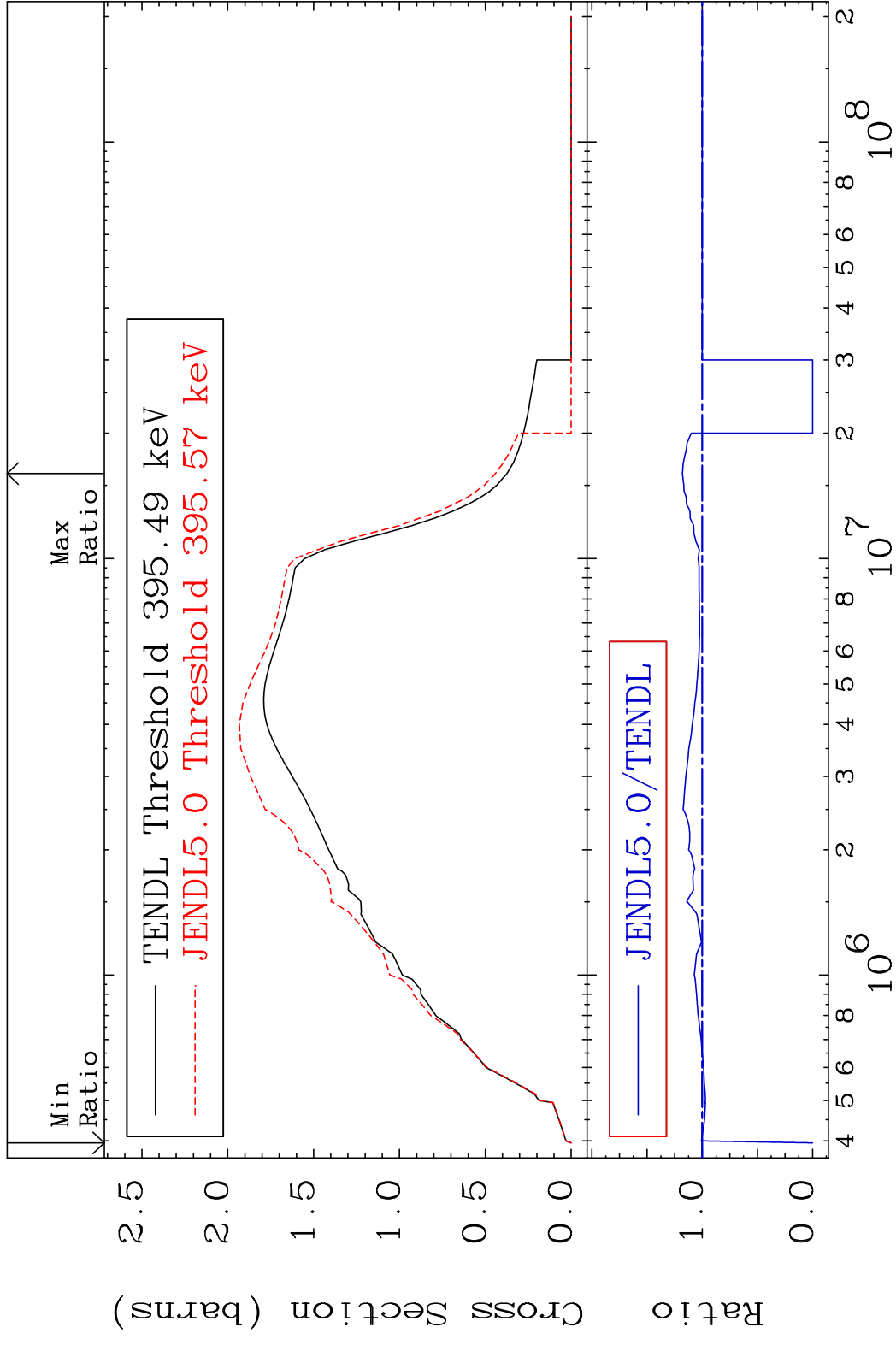


2

Incident Energy (eV)

31-Ga-71

MAT 3131 Inelastic 31-Ga-71
 Cross Section -100.0 To 18.05 %



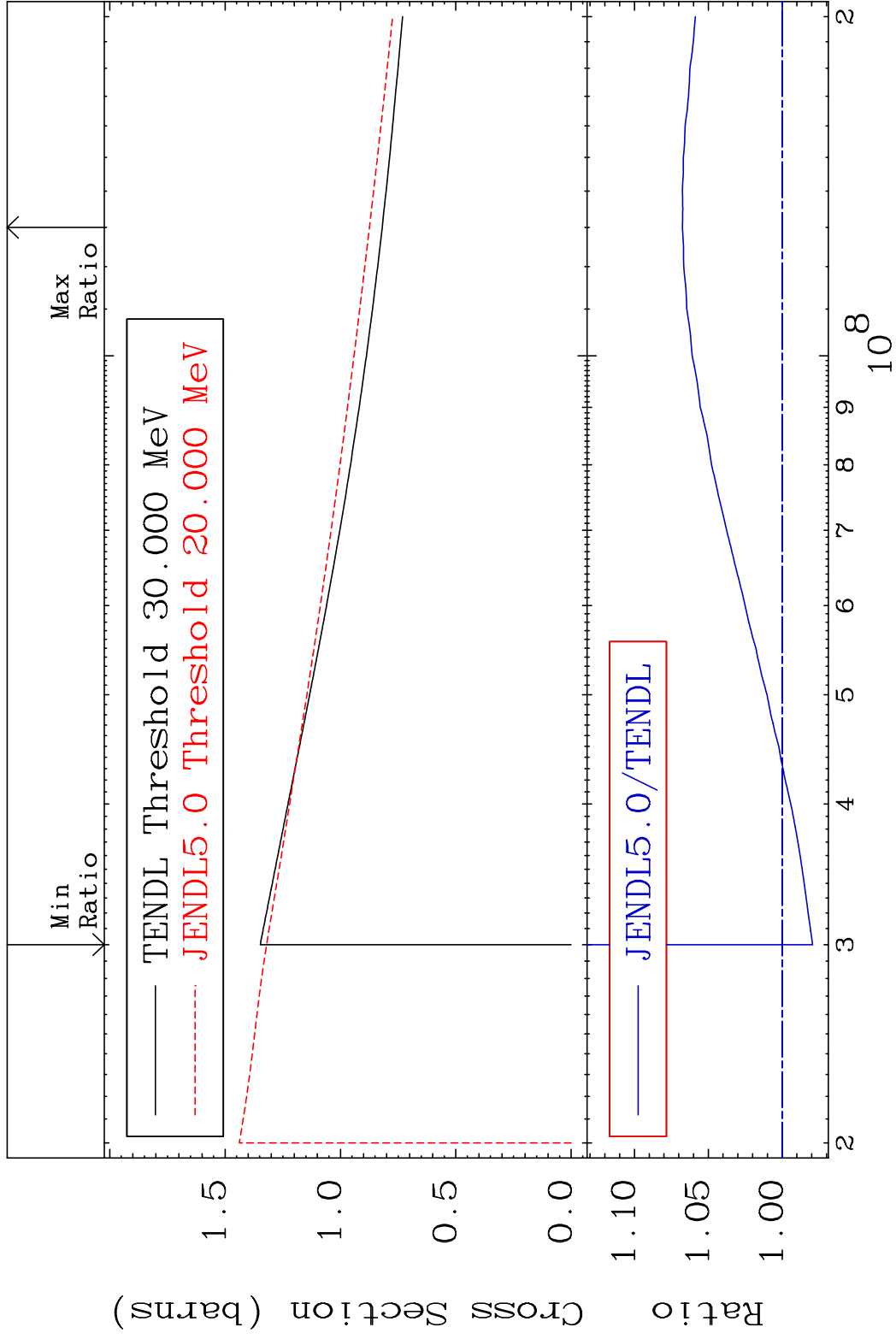
3 Incident Energy (eV) 31-Ga-71

MAT 3131

(n, remainder)

31-Ga-71

Cross Section -2.055 To 6.757 %



4

Incident Energy (eV)

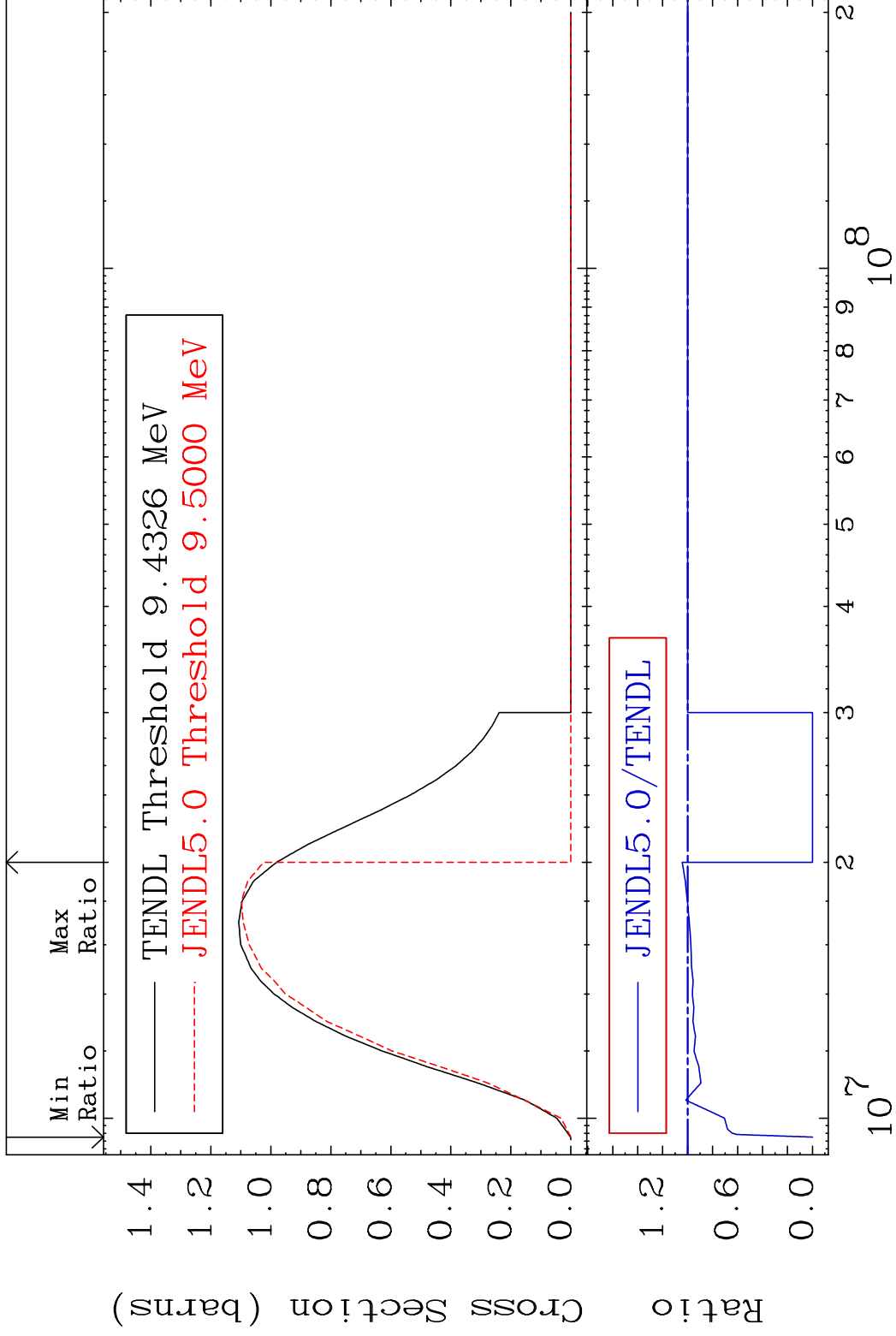
31-Ga-71

MAT 3131

(n,2n)

31-Ga-71

Cross Section -100.0 To 4.374 %

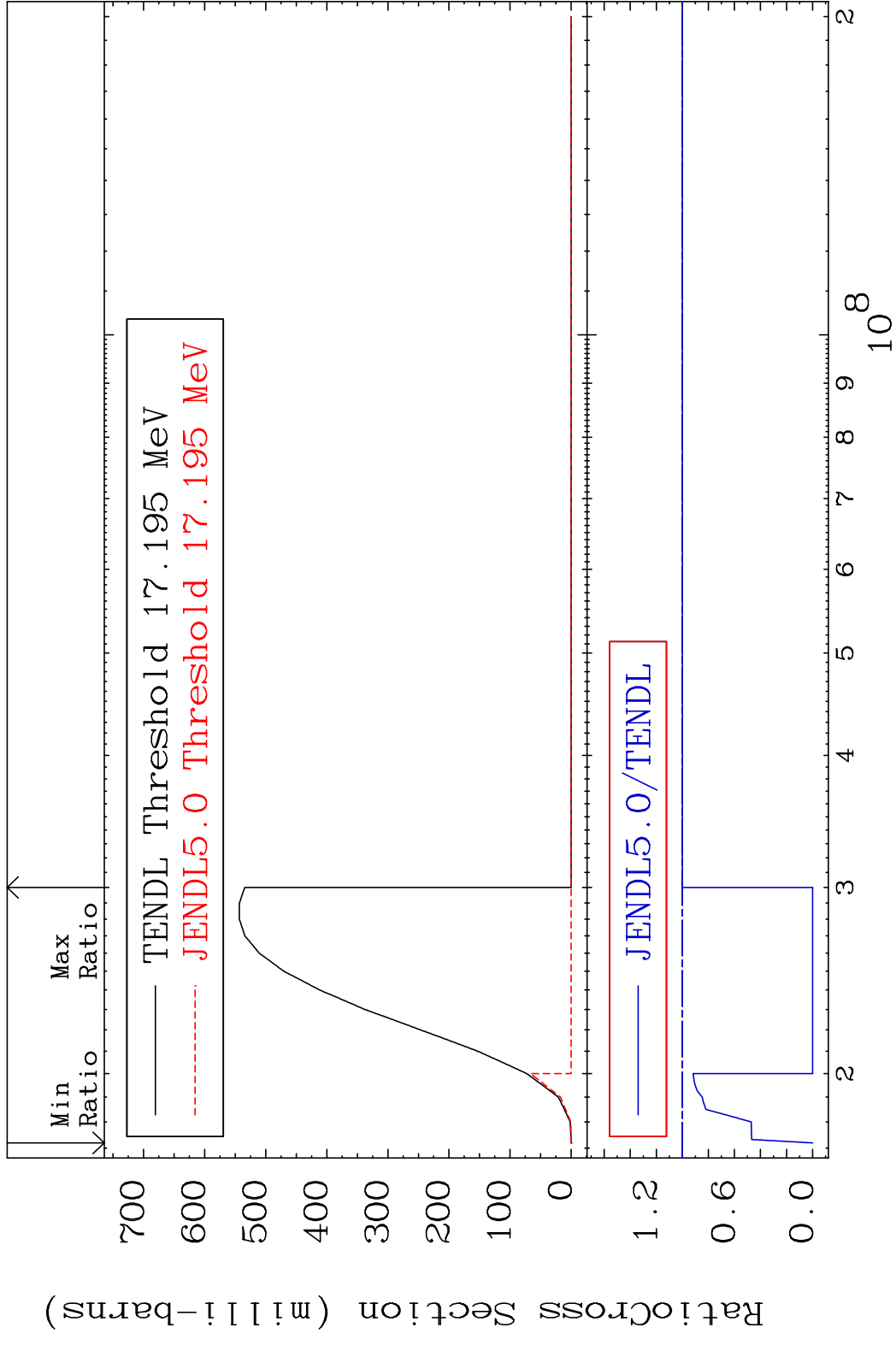


5

Incident Energy (eV)

31-Ga-71

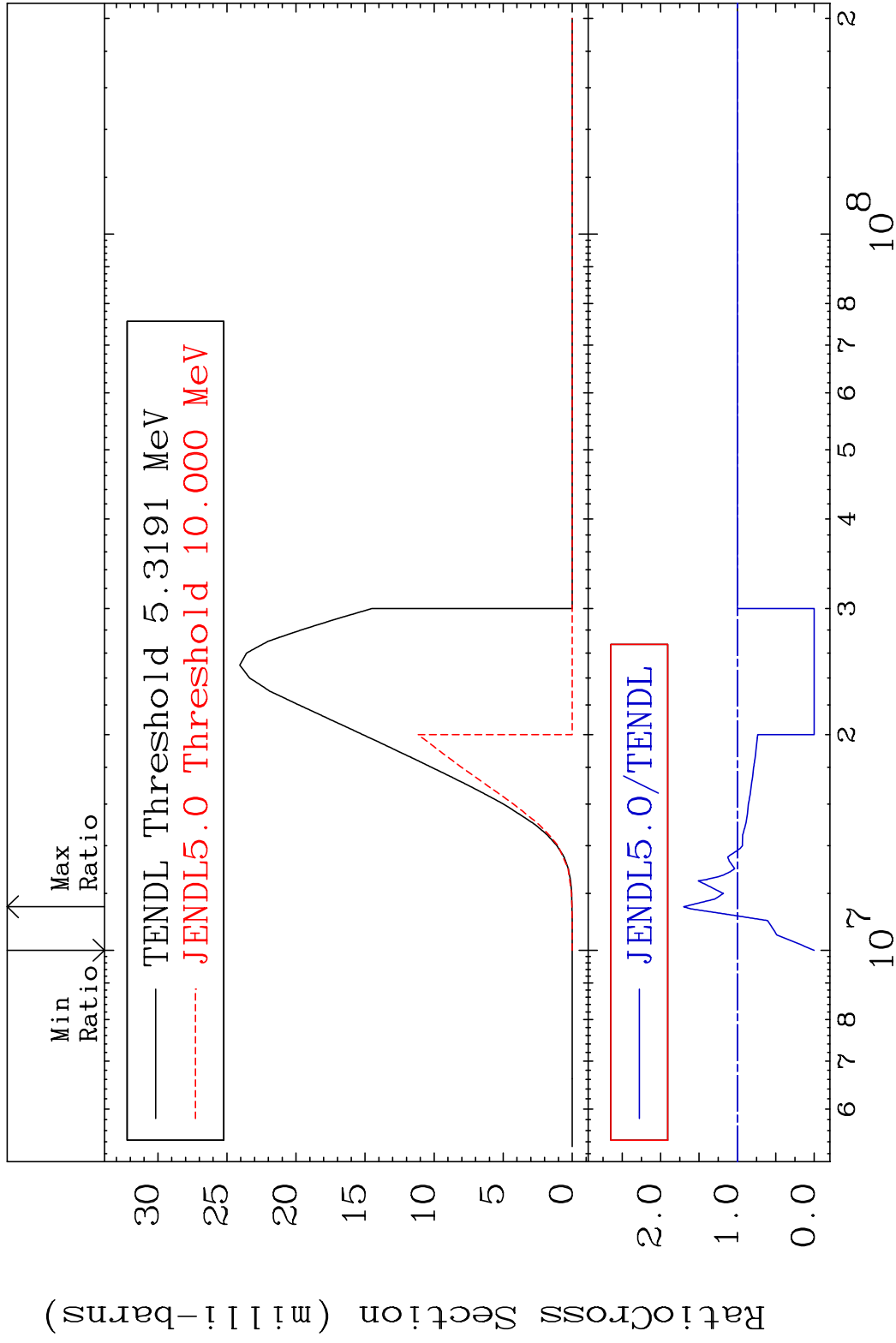
MAT 3131 (n,3n) 31-Ga-71
 Cross Section -100.0 To 0.000 %



MAT 3131

(n, n') α 31-Ga-71

Cross Section -100.0 To 69.93 %



7

Incident Energy (eV)

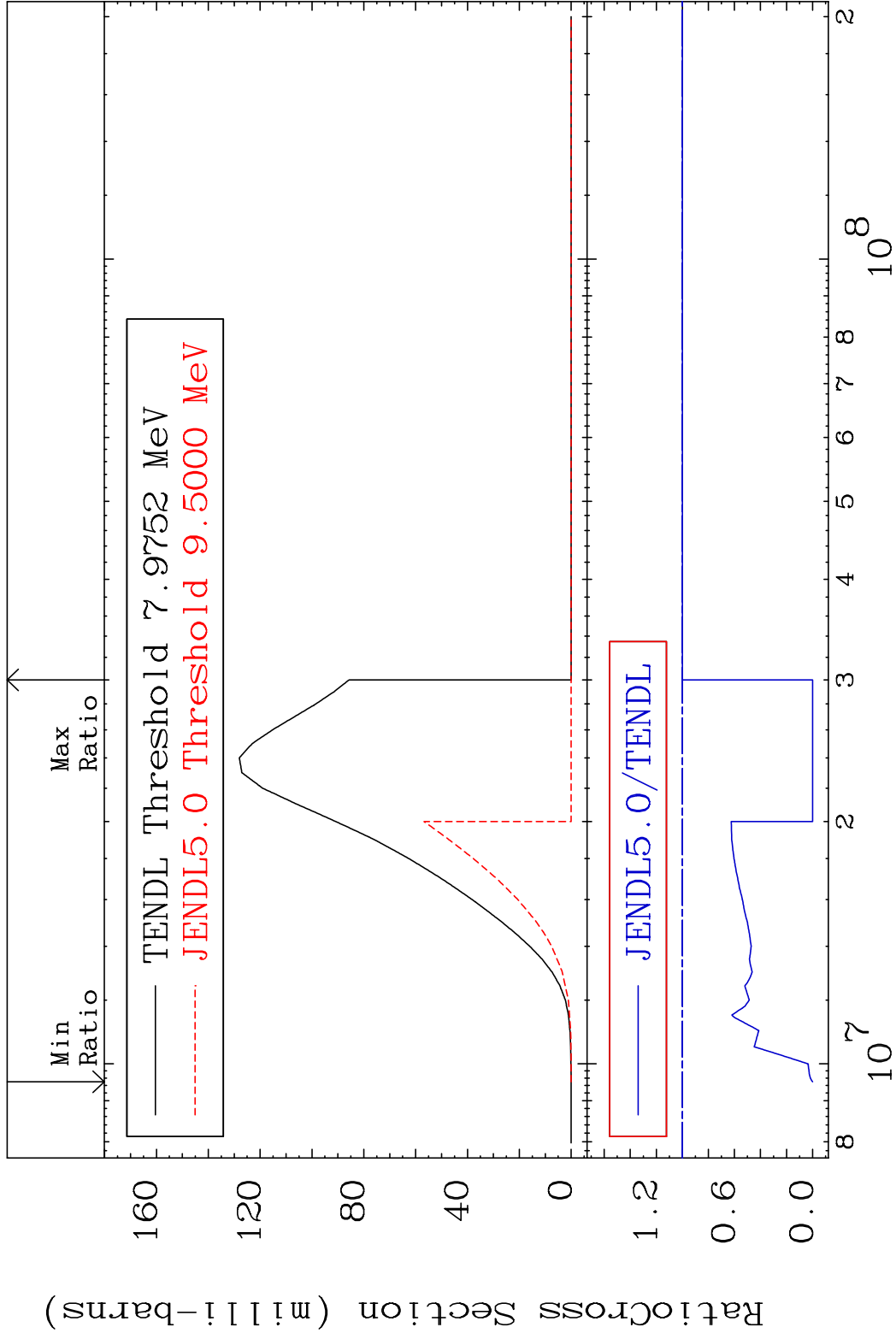
31-Ga-71

MAT 3131

(n, n') p

31-Ga-71

Cross Section -100.0 To 0.000 %



8

Incident Energy (eV)

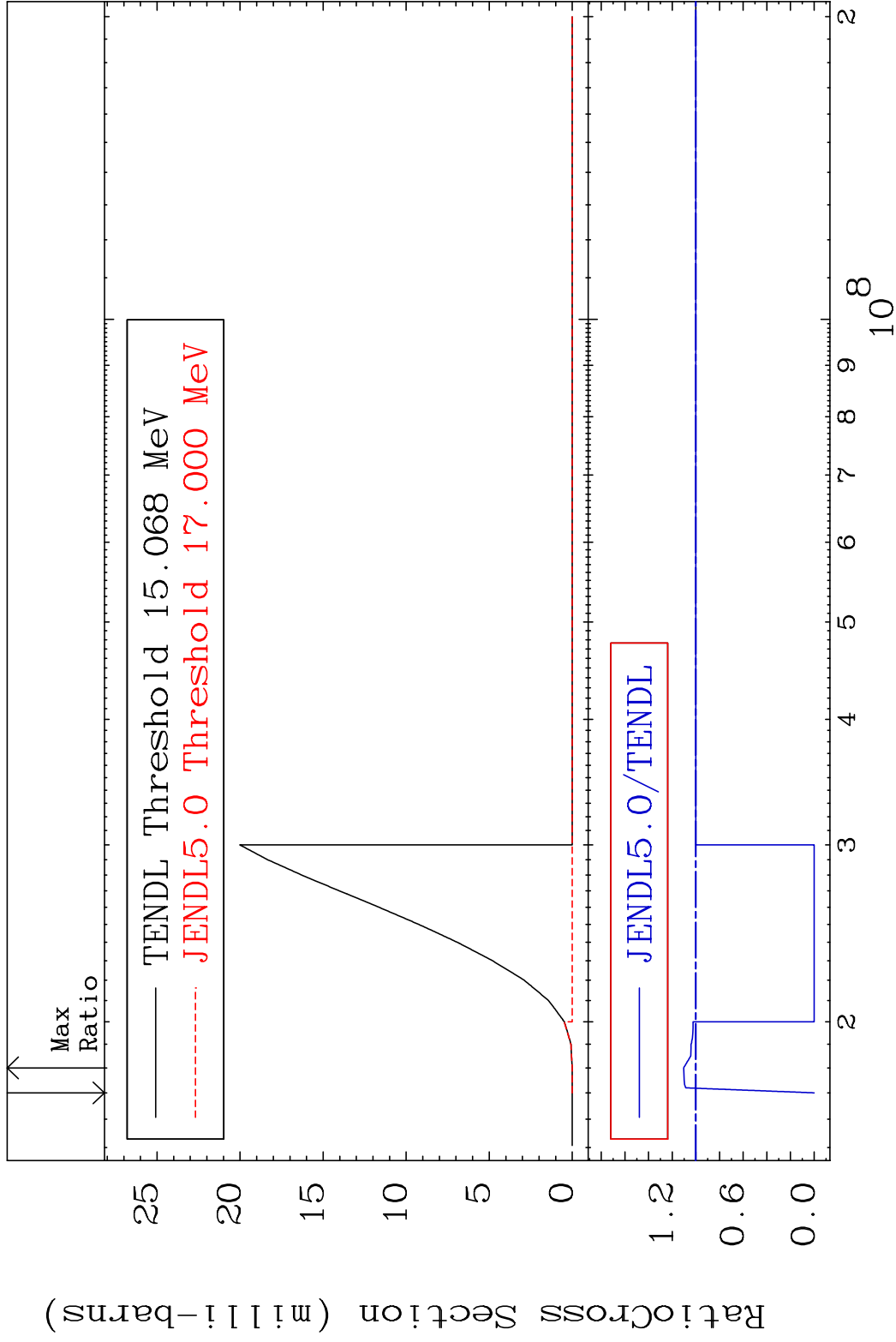
31-Ga-71

MAT 3131

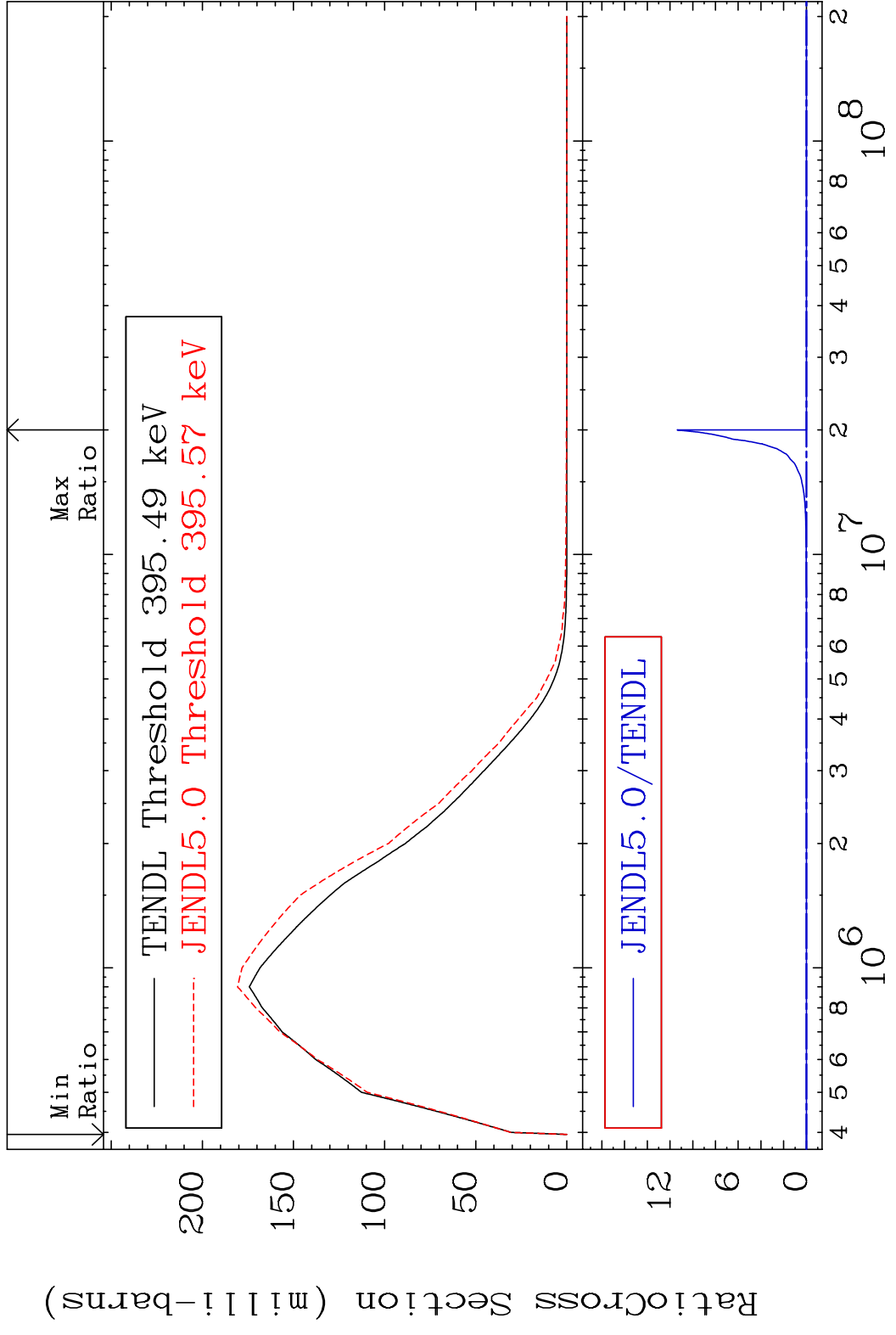
(n, n') d

31-Ga-71

Cross Section -100.0 To 10.34 %

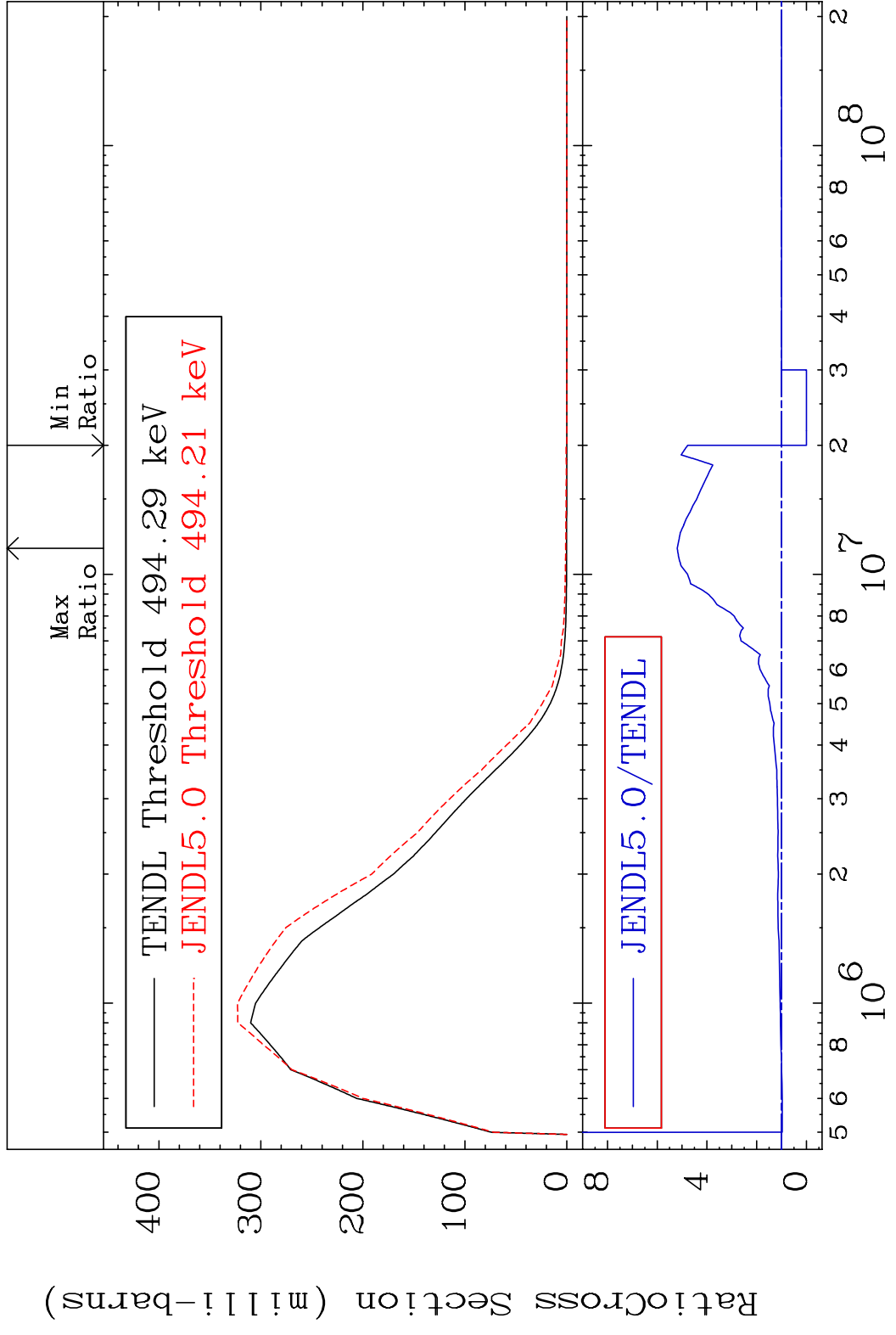


MAT 3131 MT= 51 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 9999. %

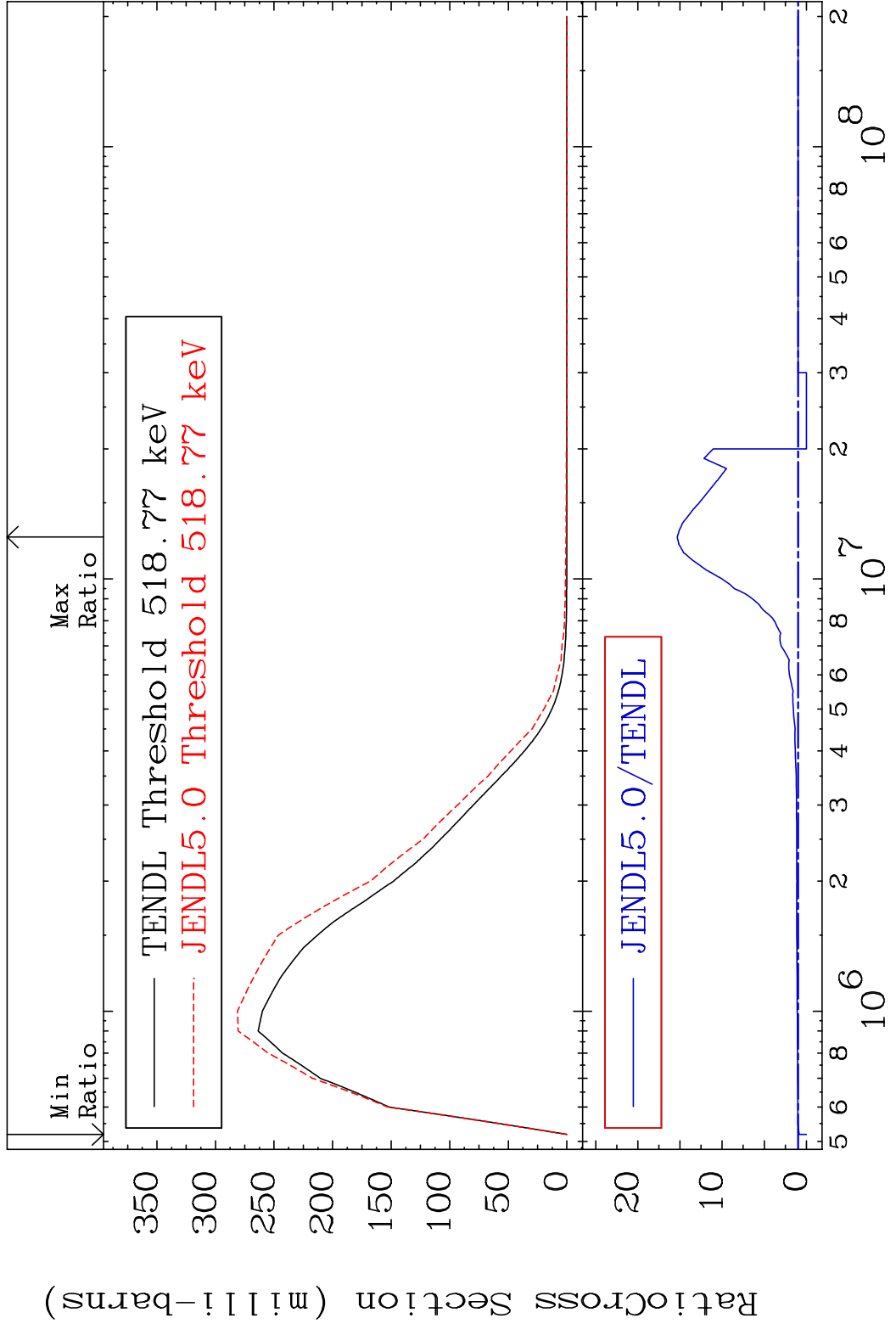


10 31-Ga-71

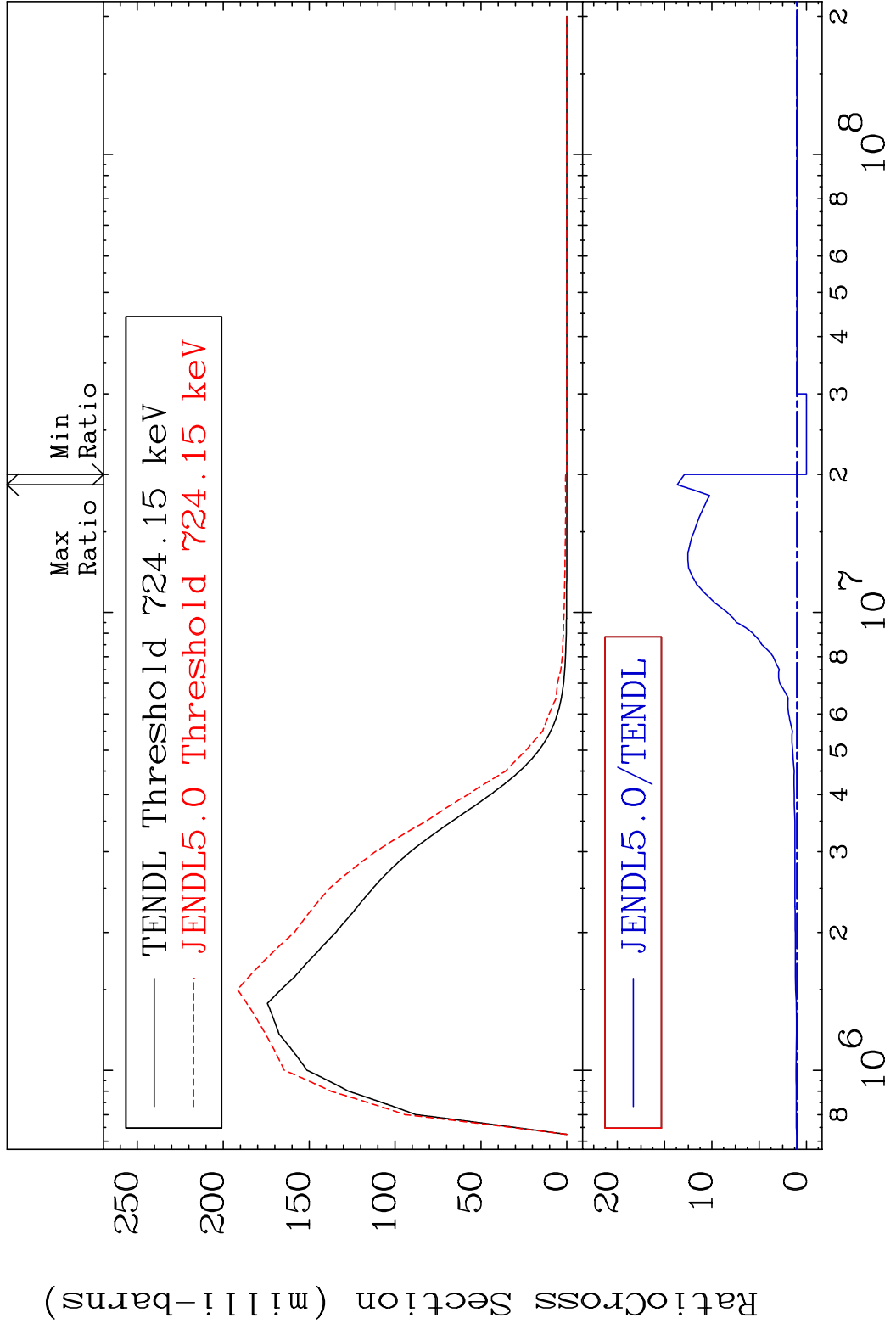
MAT 3131 MT= 52 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 419.6 %



MAT 3131 MT= 53 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 1433. %

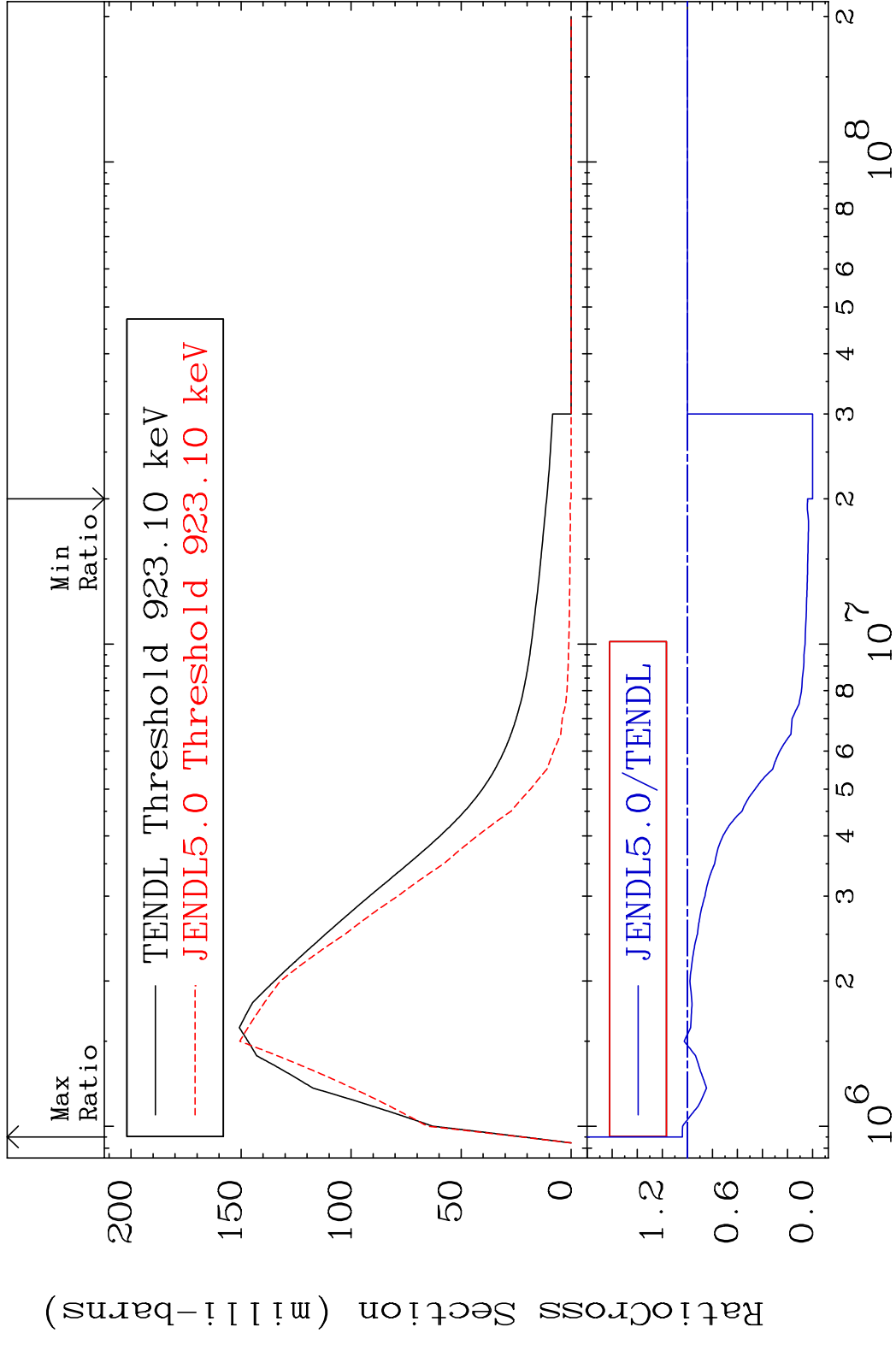


MAT 3131 MT= 54 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 1266. %



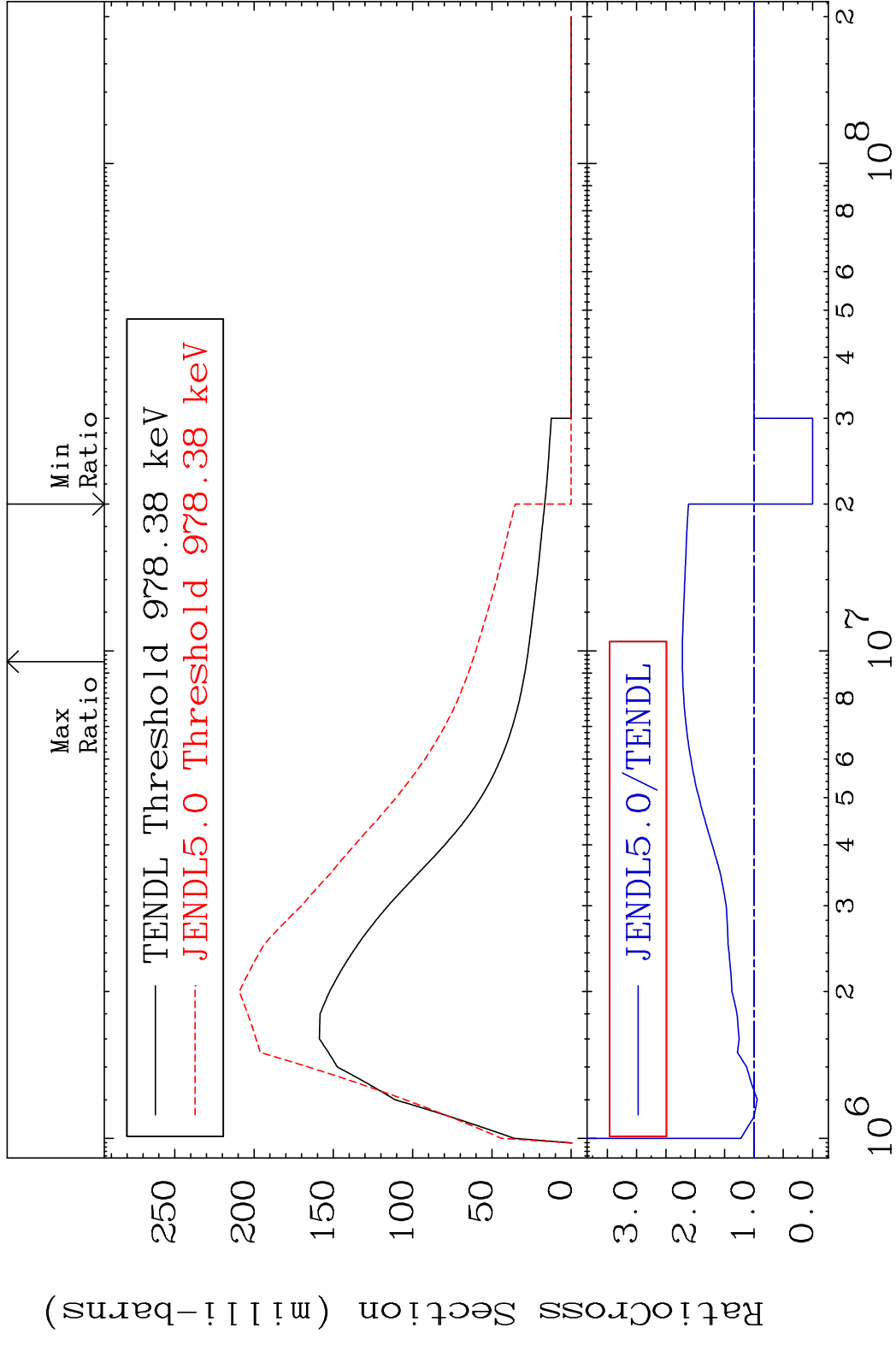
13 Incident Energy (eV) 31-Ga-71

MAT 3131 MT= 55 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 4.002 %



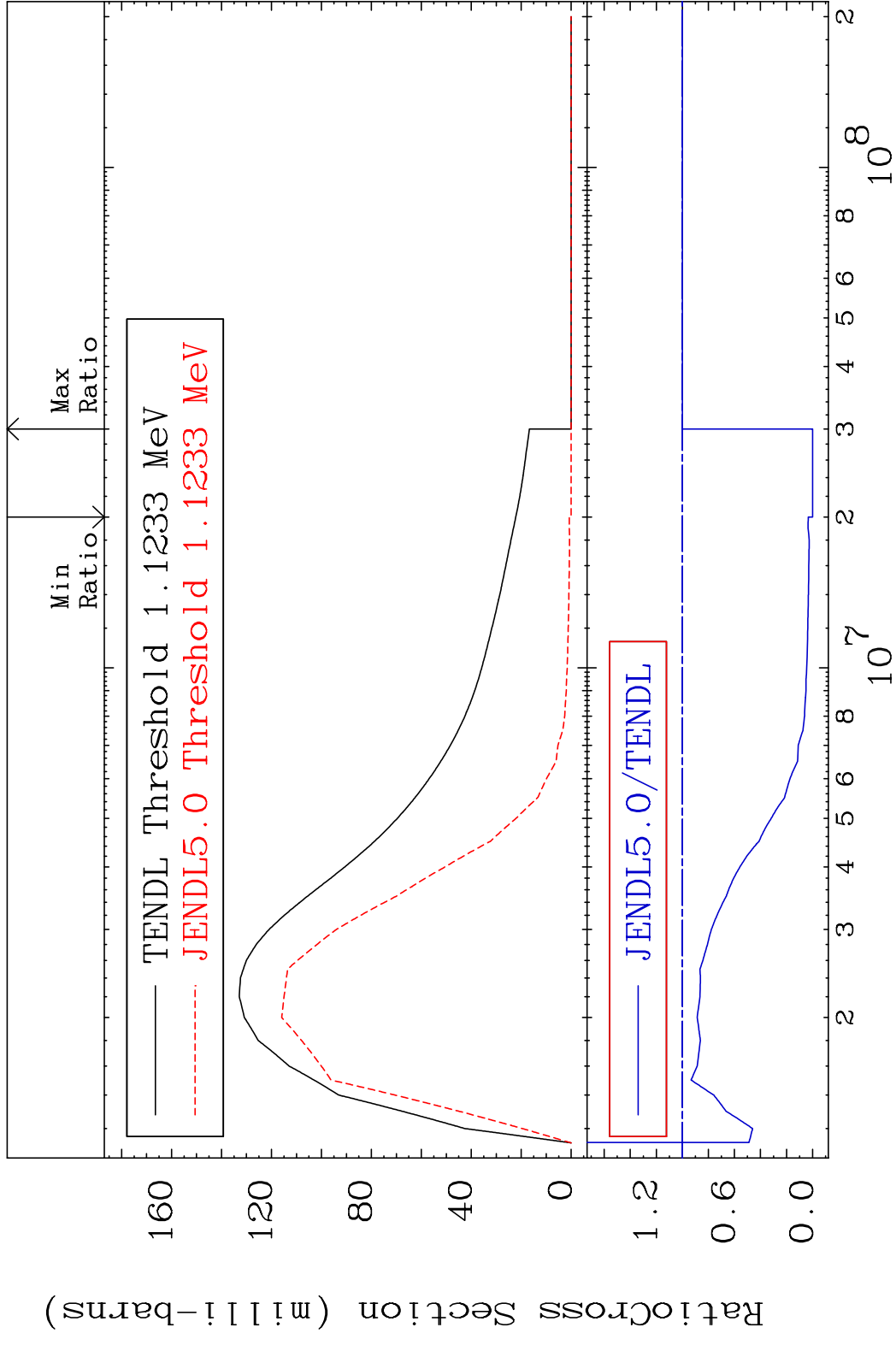
14 31-Ga-71

MAT 3131 MT= 56 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 122.0 %

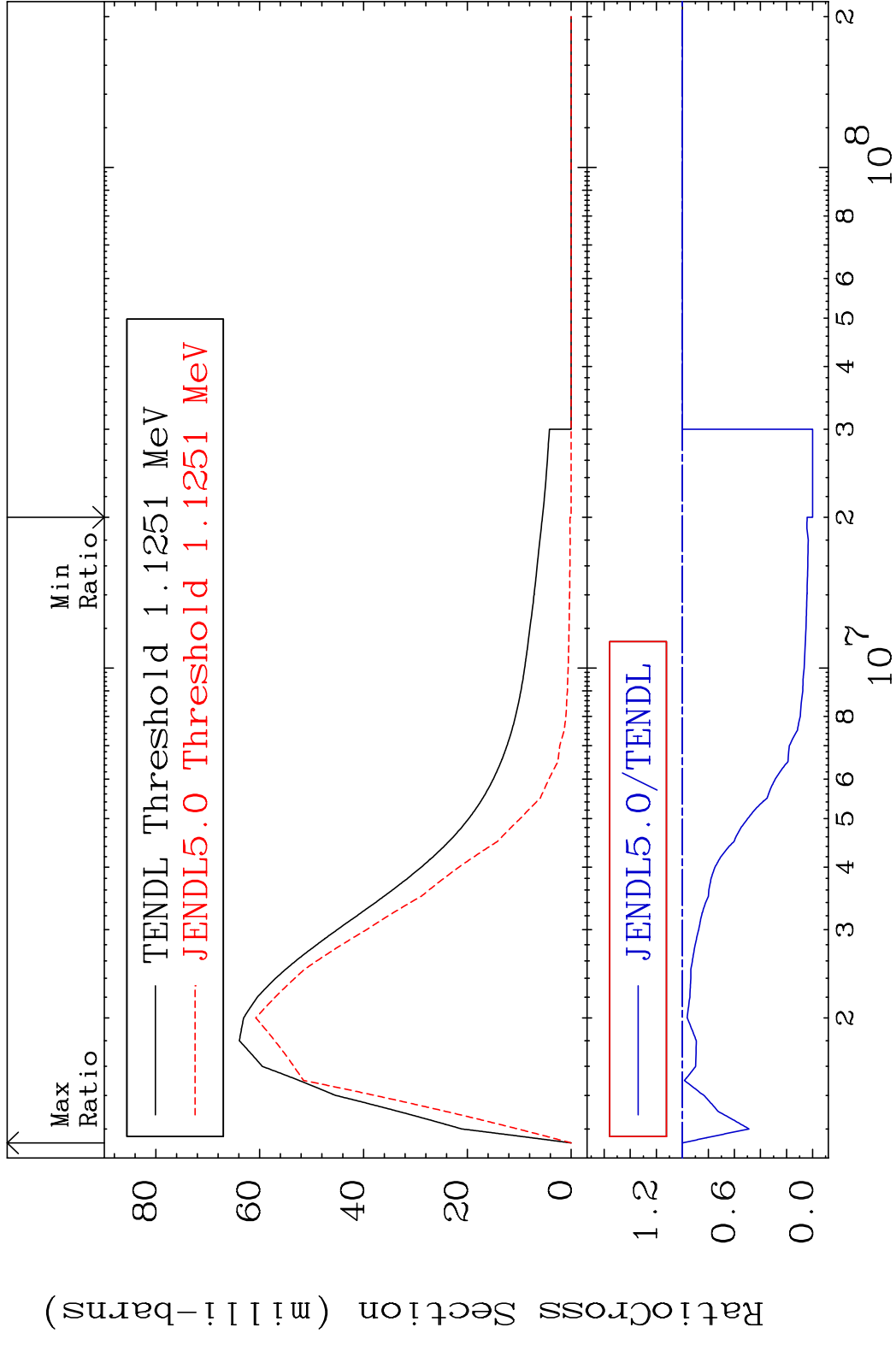


15 Incident Energy (eV) 31-Ga-71

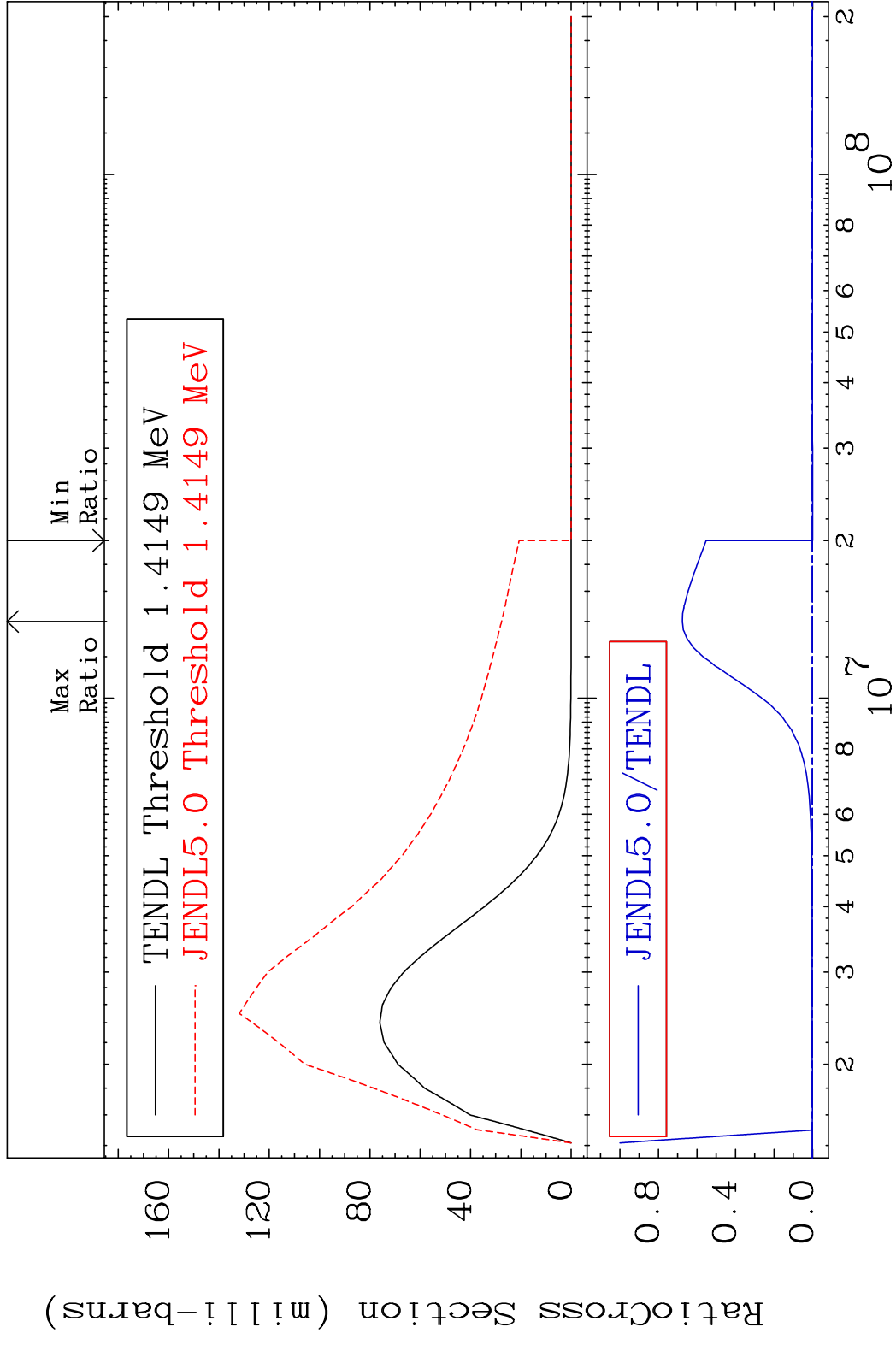
MAT 3131 MT= 57 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 0.000 %



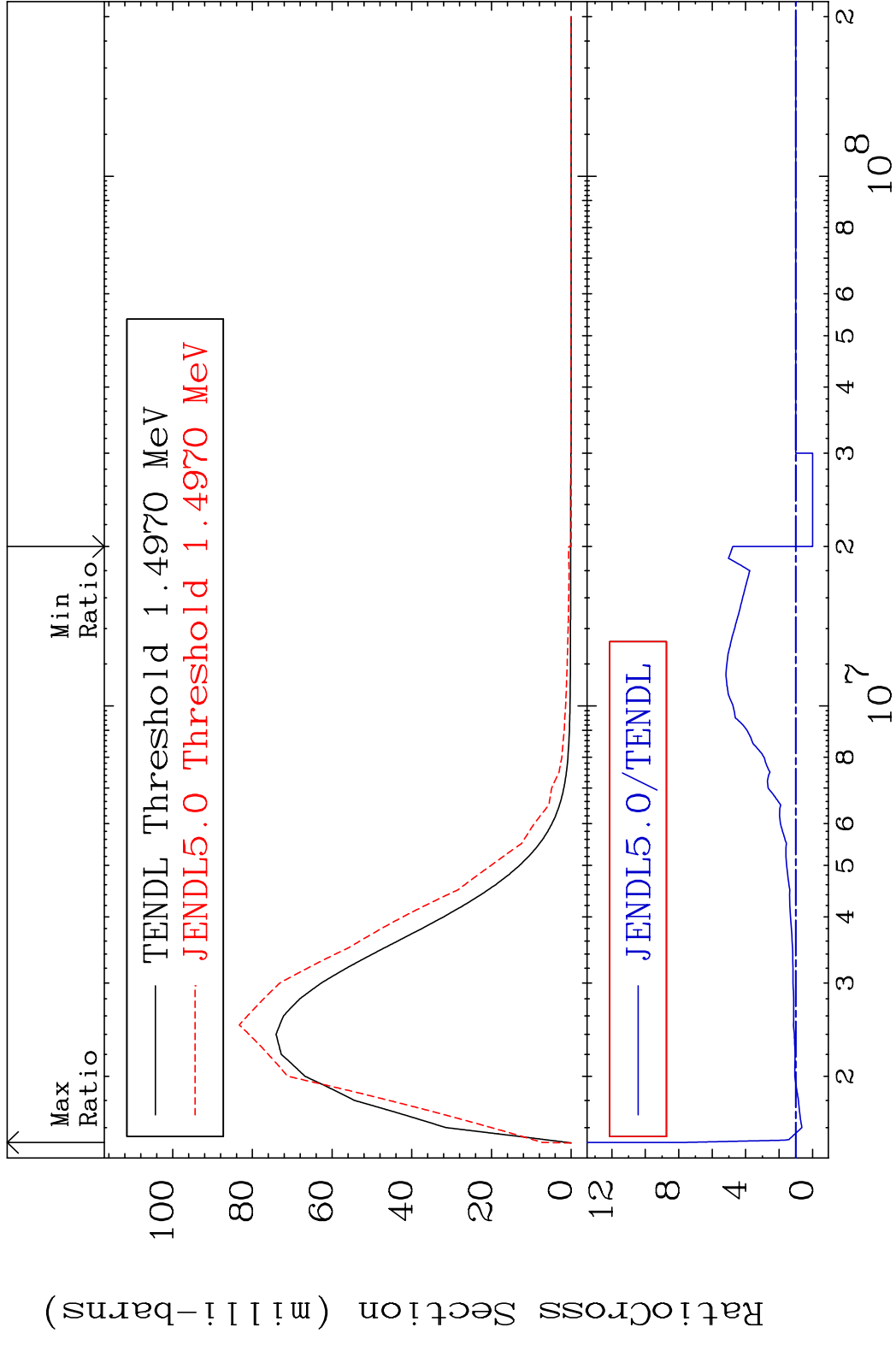
MAT 3131 MT= 58 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 0.000 %



MAT 3131 MT= 59 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 9999. %

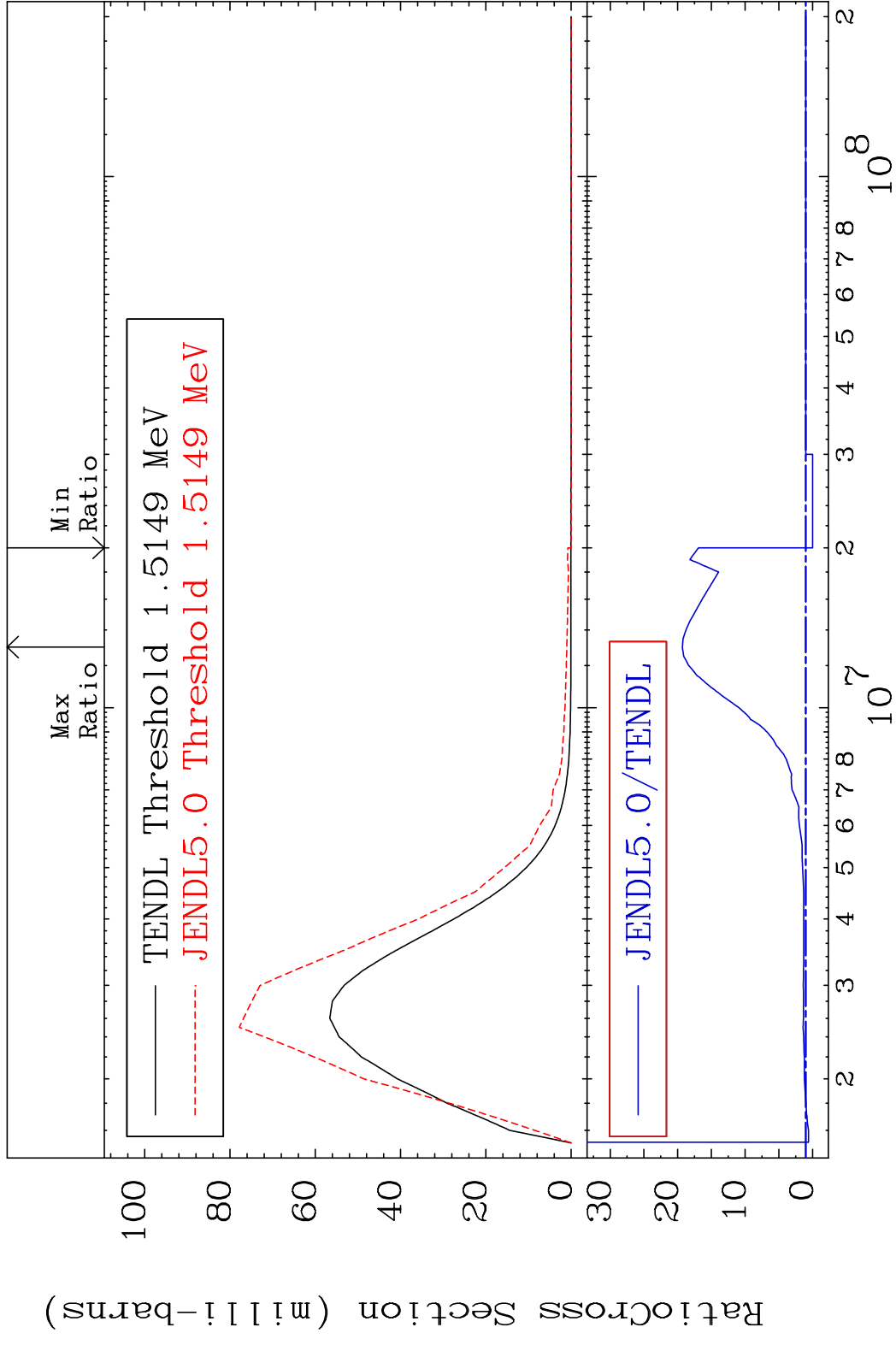


MAT 3131 MT= 60 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 678.5 %



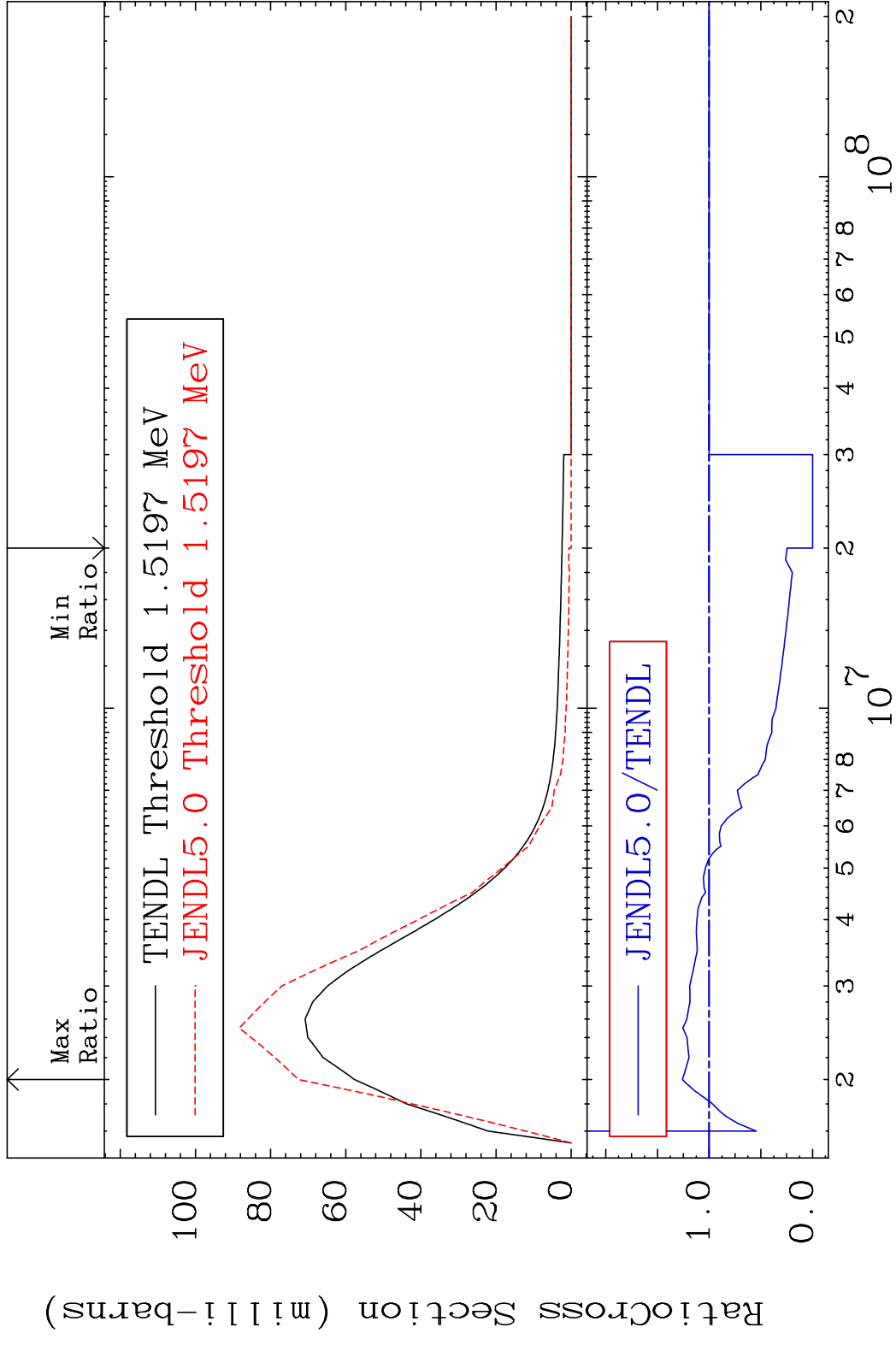
19 Incident Energy (eV) 31-Ga-71

MAT 3131 MT= 61 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 1830. %

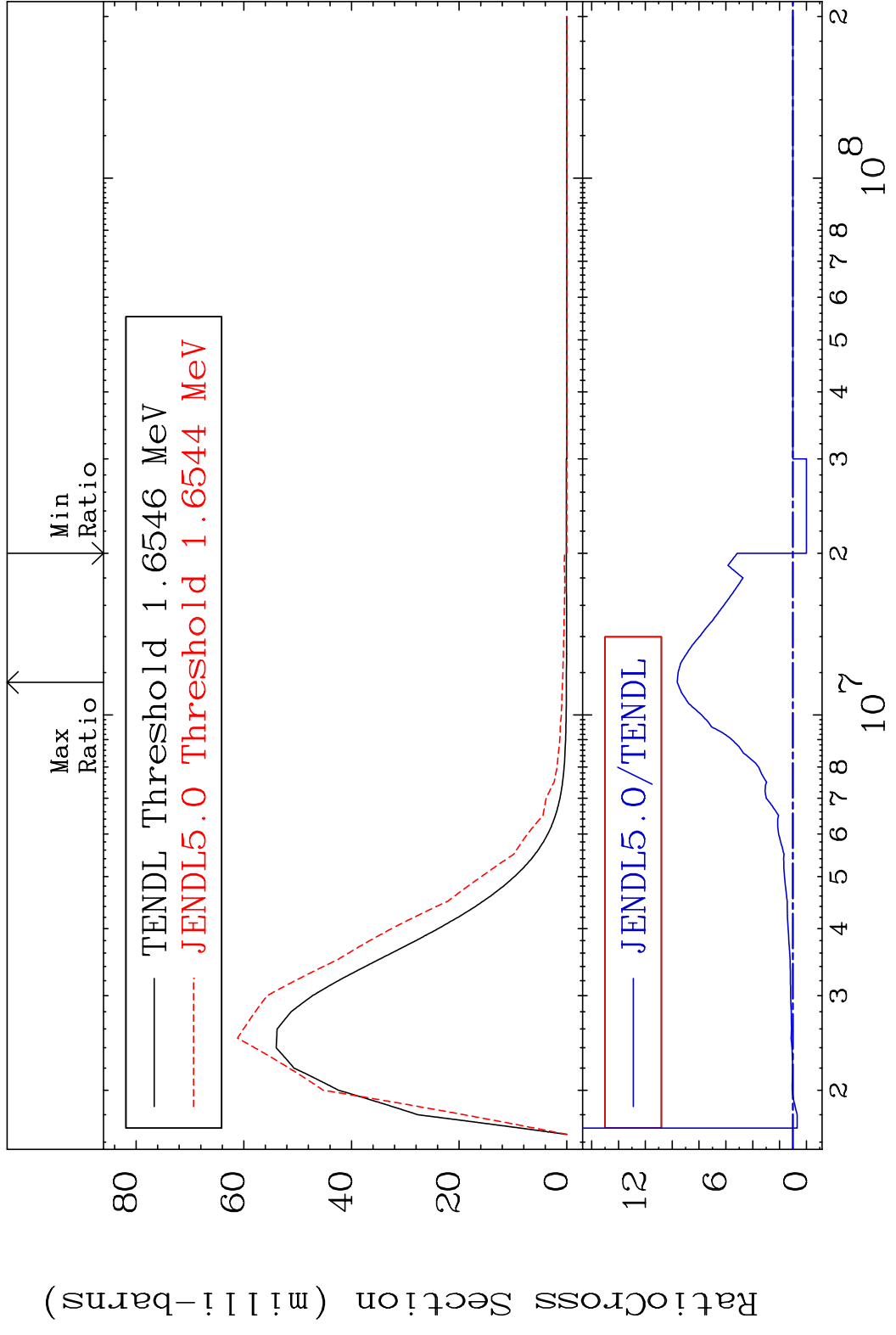


20 31-Ga-71

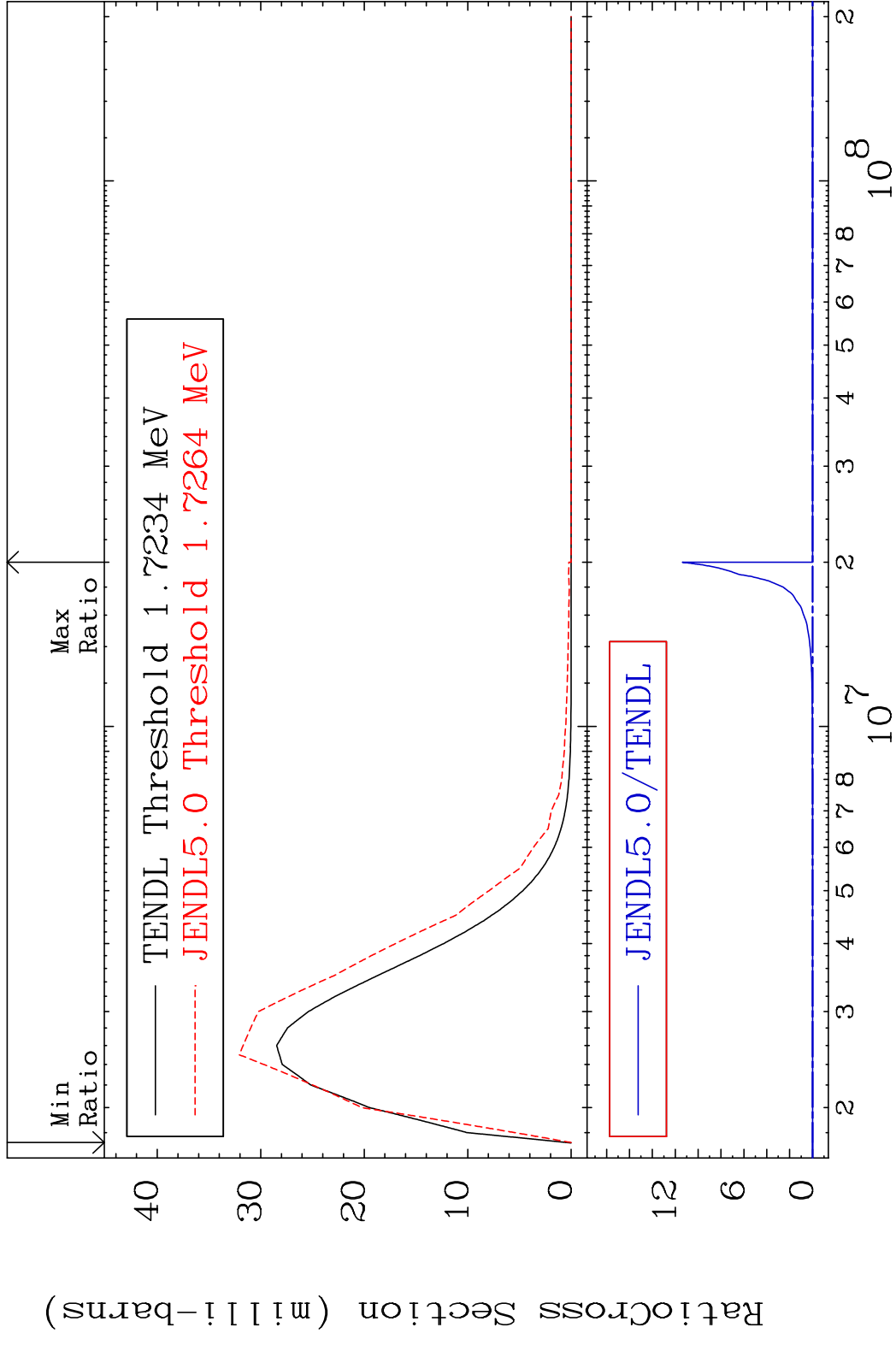
MAT 3131 MT= 62 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 25.89 %



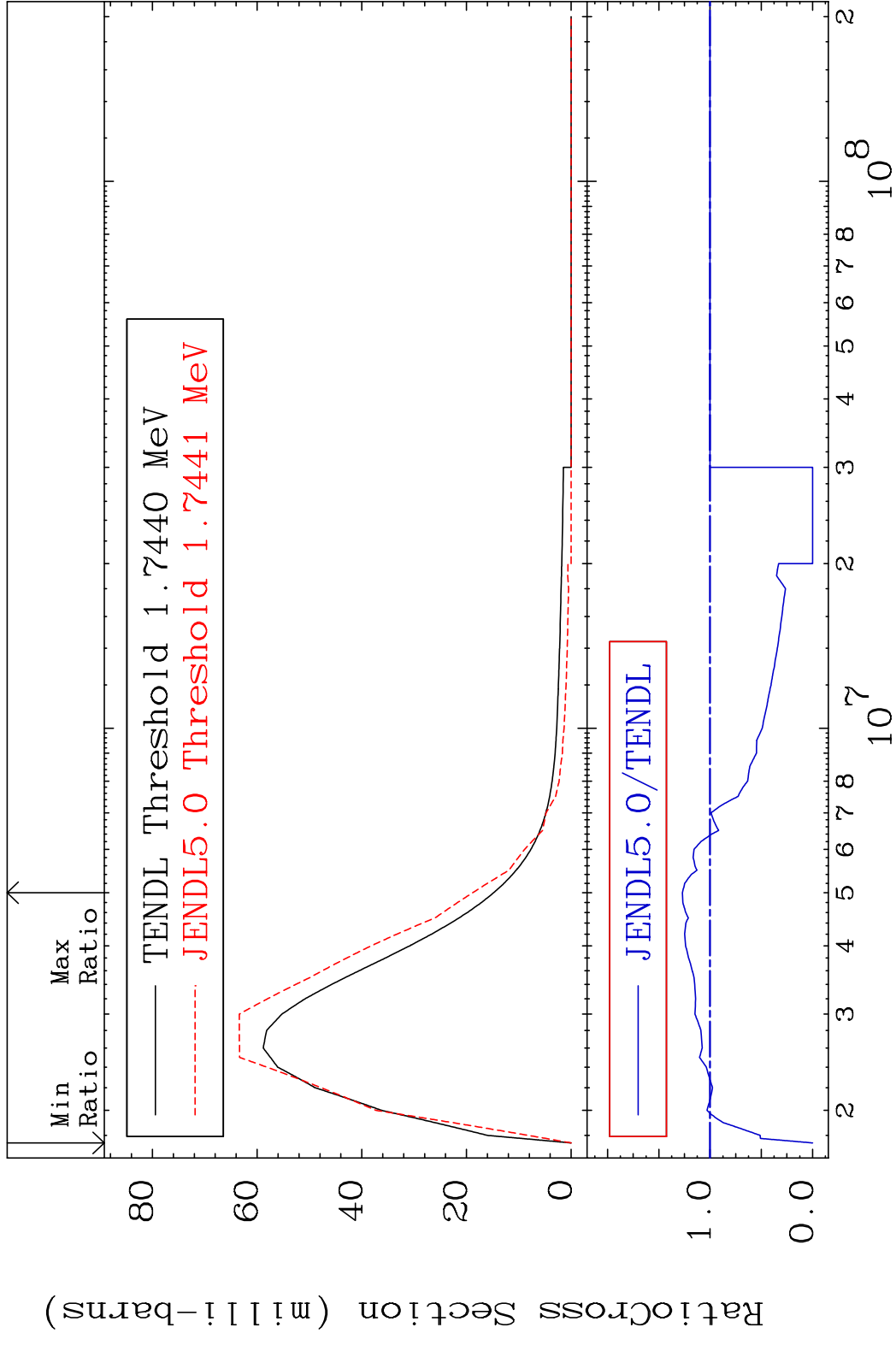
MAT 3131 MT= 63 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 862.7 %



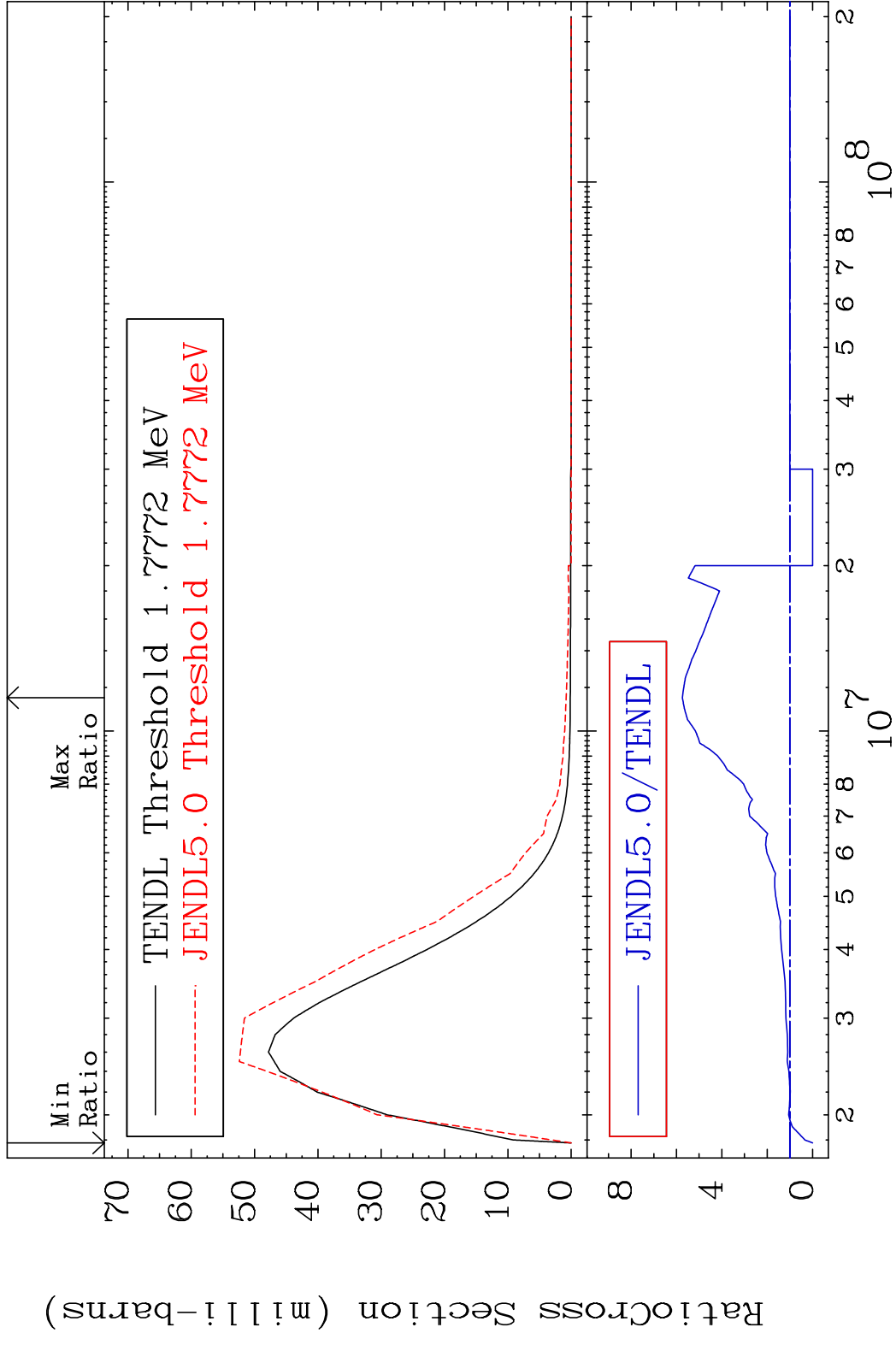
MAT 3131 MT= 64 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 9999. %



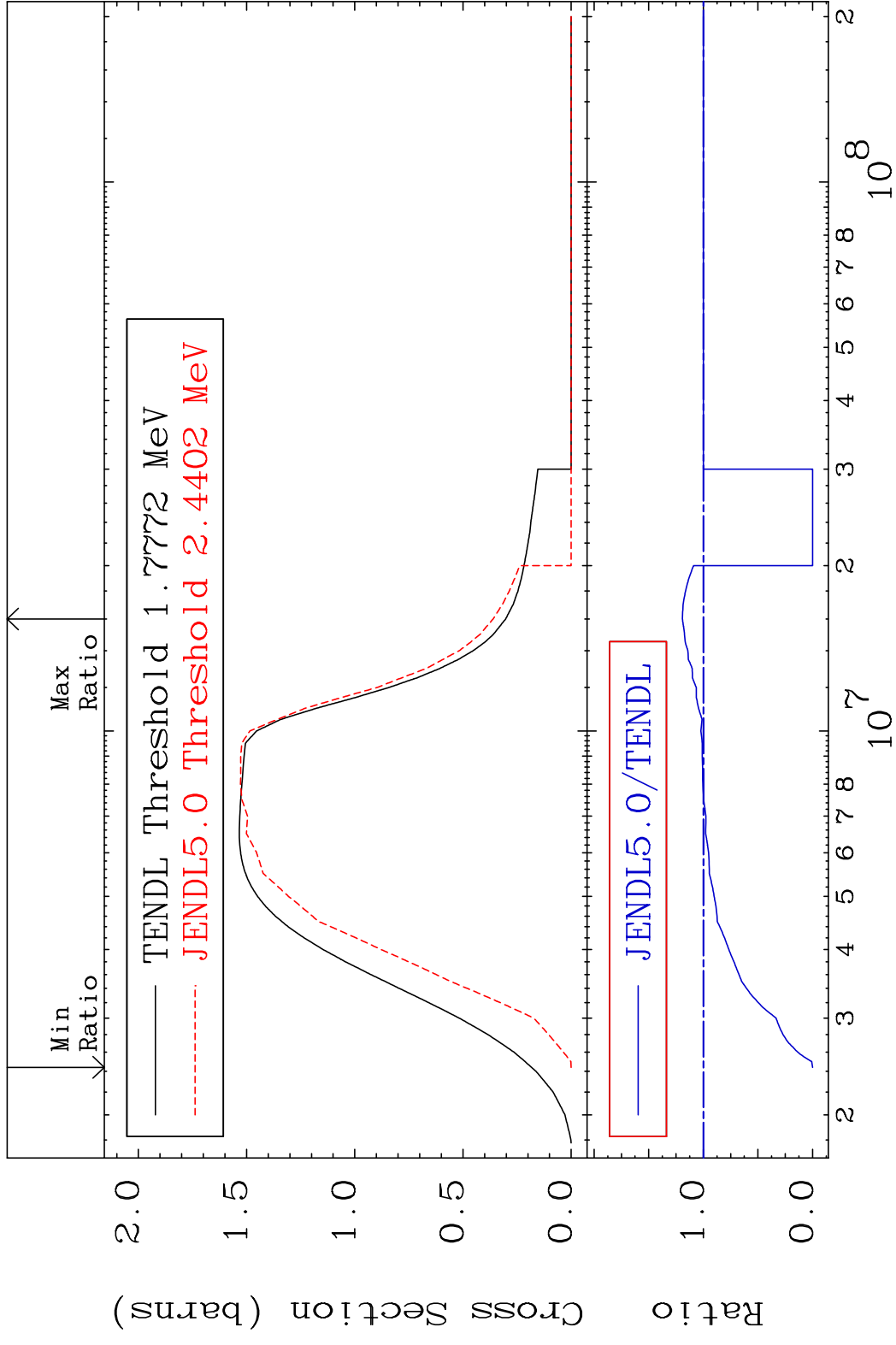
MAT 3131 MT= 65 (n,n') Level 31-Ga-71
 Cross Section -100.0 To 27.06 %



MAT 3131 MT= 66 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 474.0 %



MAT 3131 (n,n') Continuum 31-Ga-71
 Cross Section -100.0 To 19.20 %

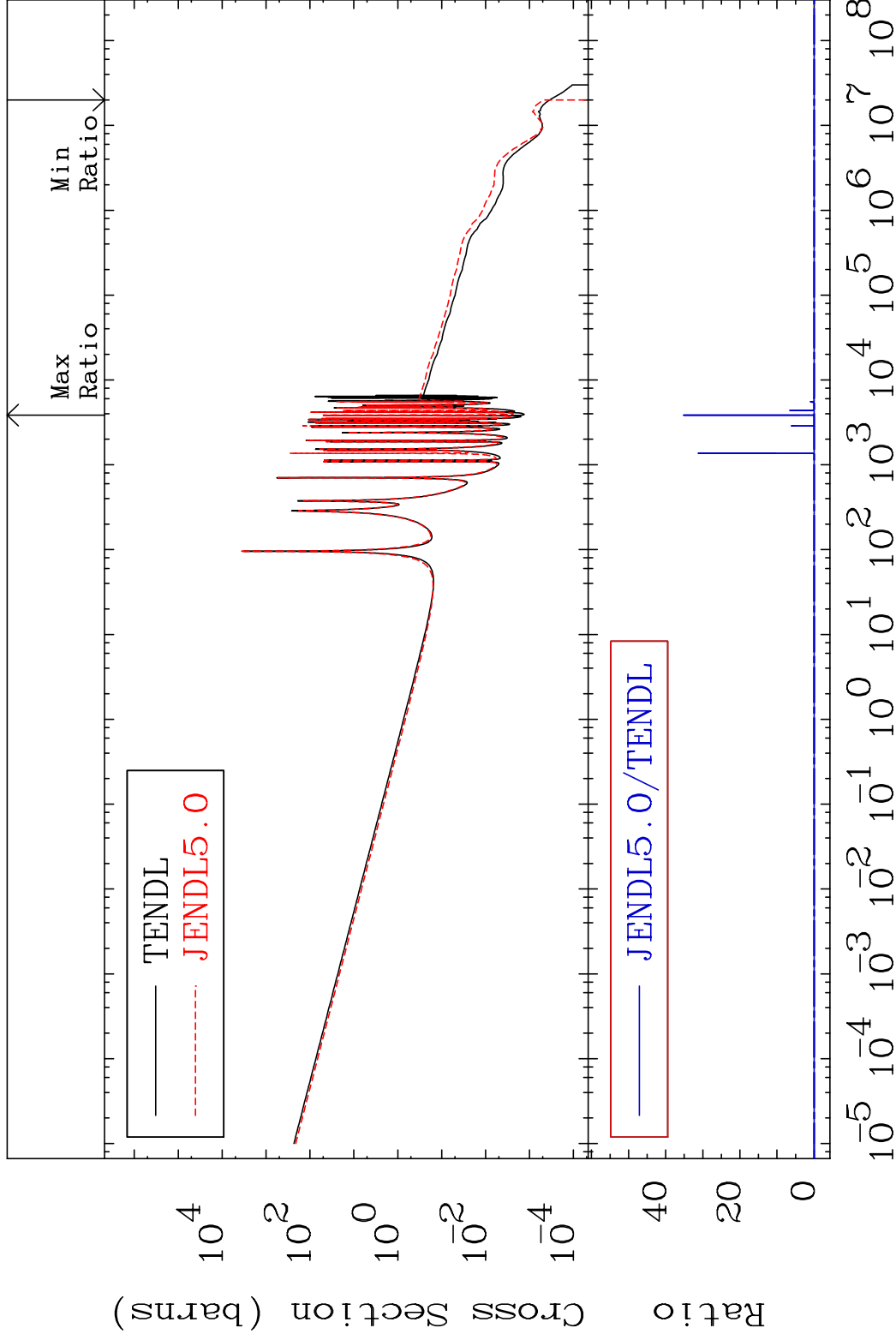


MAT 3131

(n, γ)

31-Ga-71

Cross Section -100.0 To 9999. %



27

Incident Energy (eV)

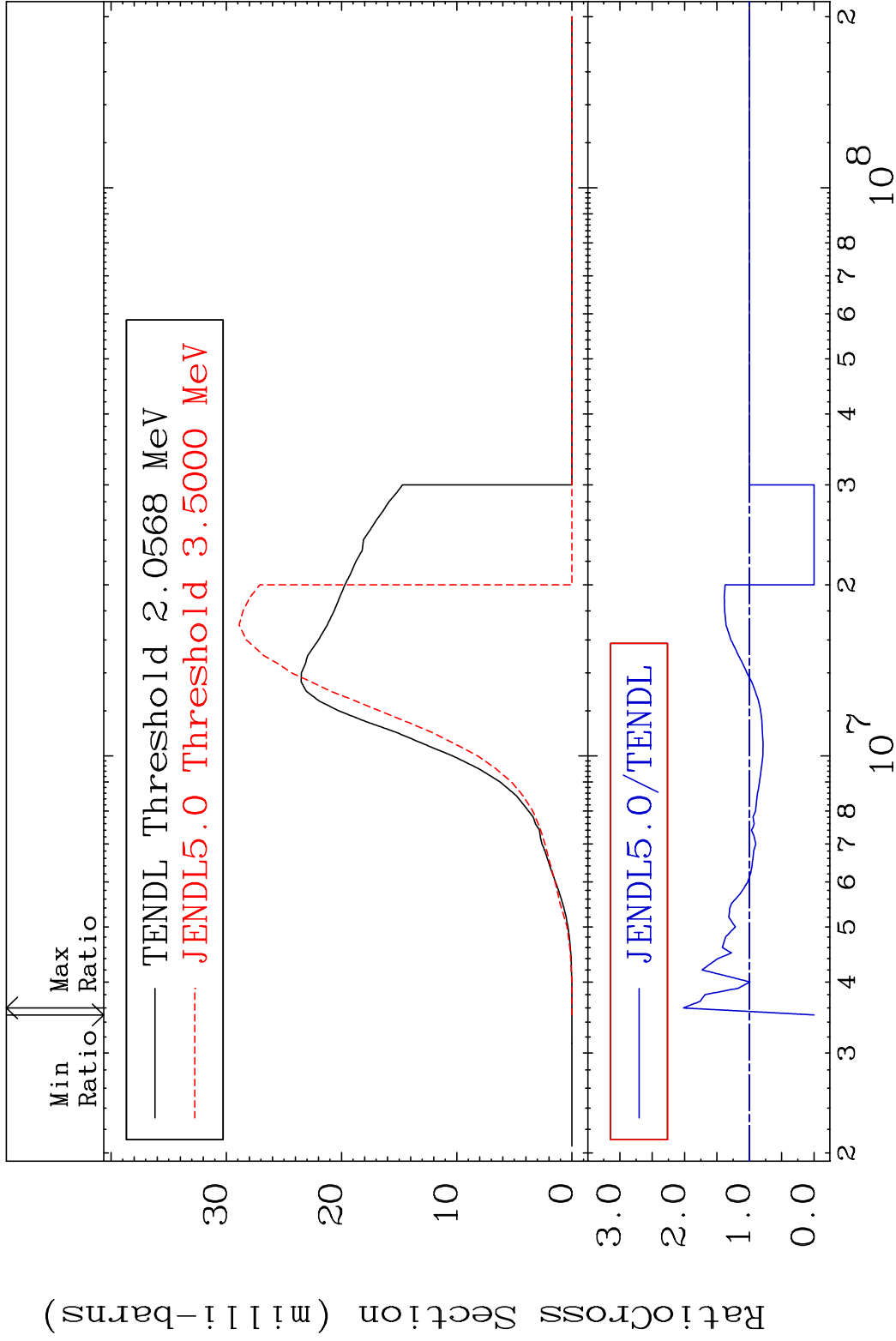
31-Ga-71

MAT 3131

(n,p)

31-Ga-71

Cross Section -100.0 To 101.8 %



28

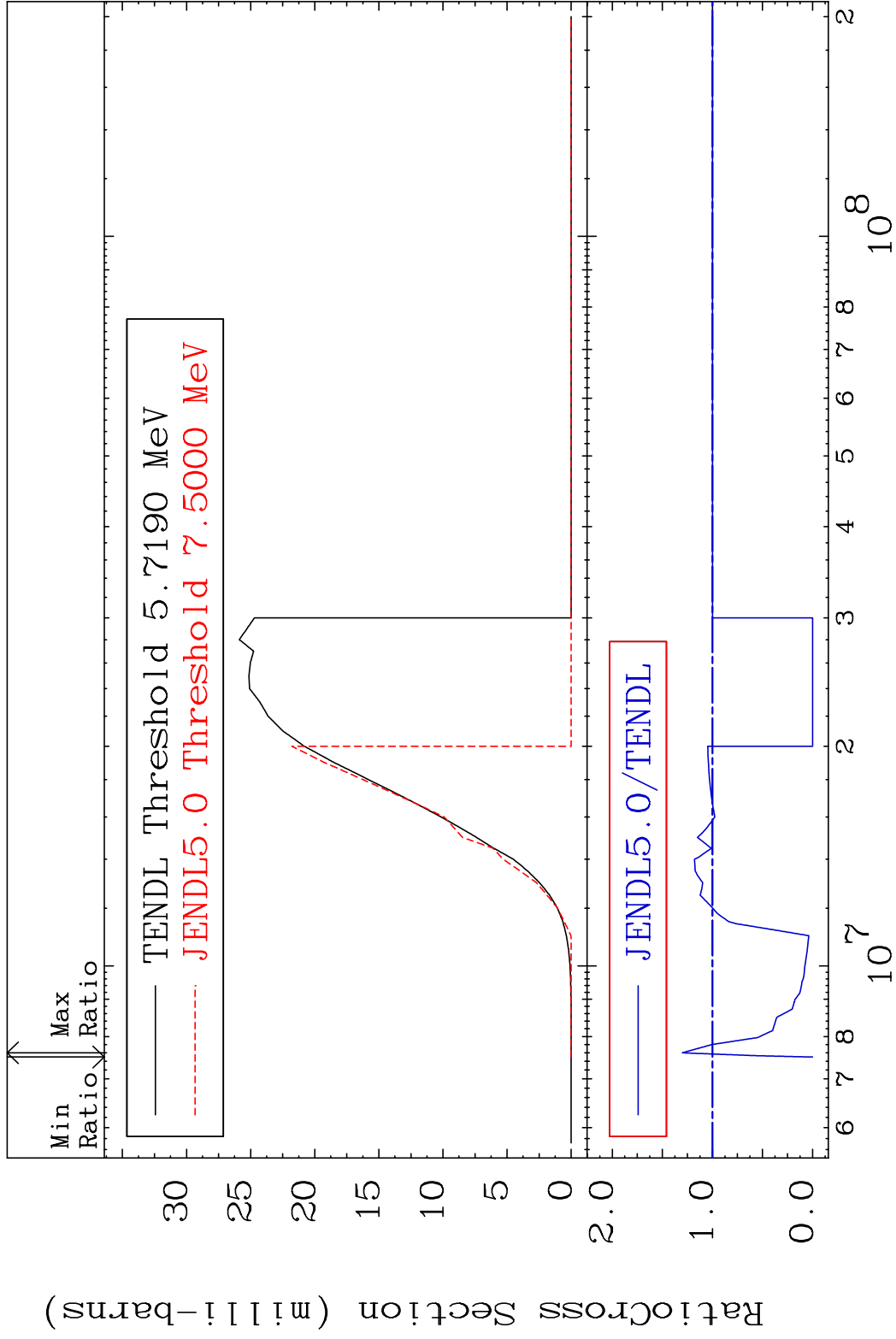
Incident Energy (eV) 31-Ga-71

MAT 3131

(n, d)

31-Ga-71

Cross Section -100.0 To 30.02 %



29

Incident Energy (eV)

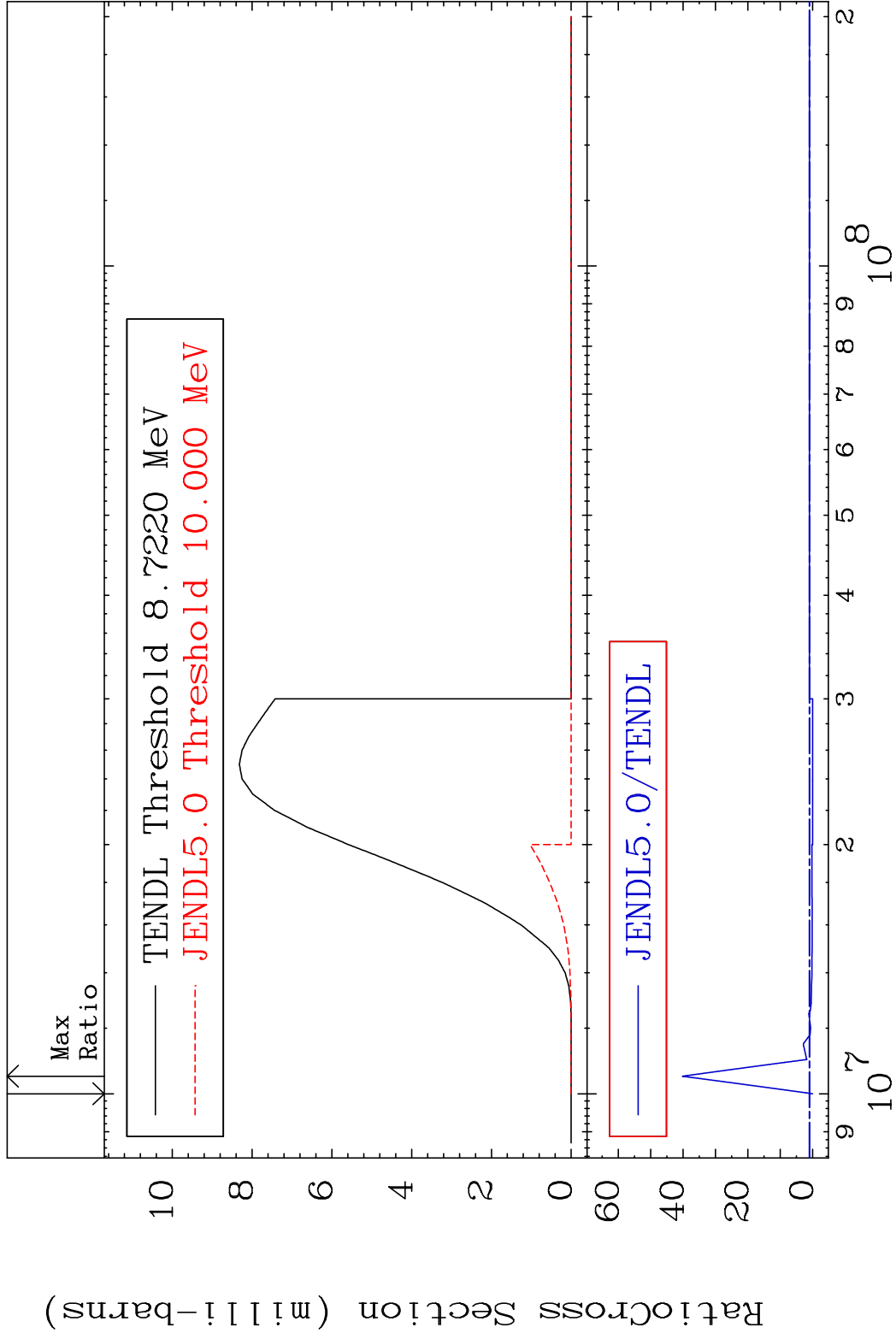
31-Ga-71

MAT 3131

(n, t)

31-Ga-71

Cross Section -100.0 To 3920. %



30

Incident Energy (eV)

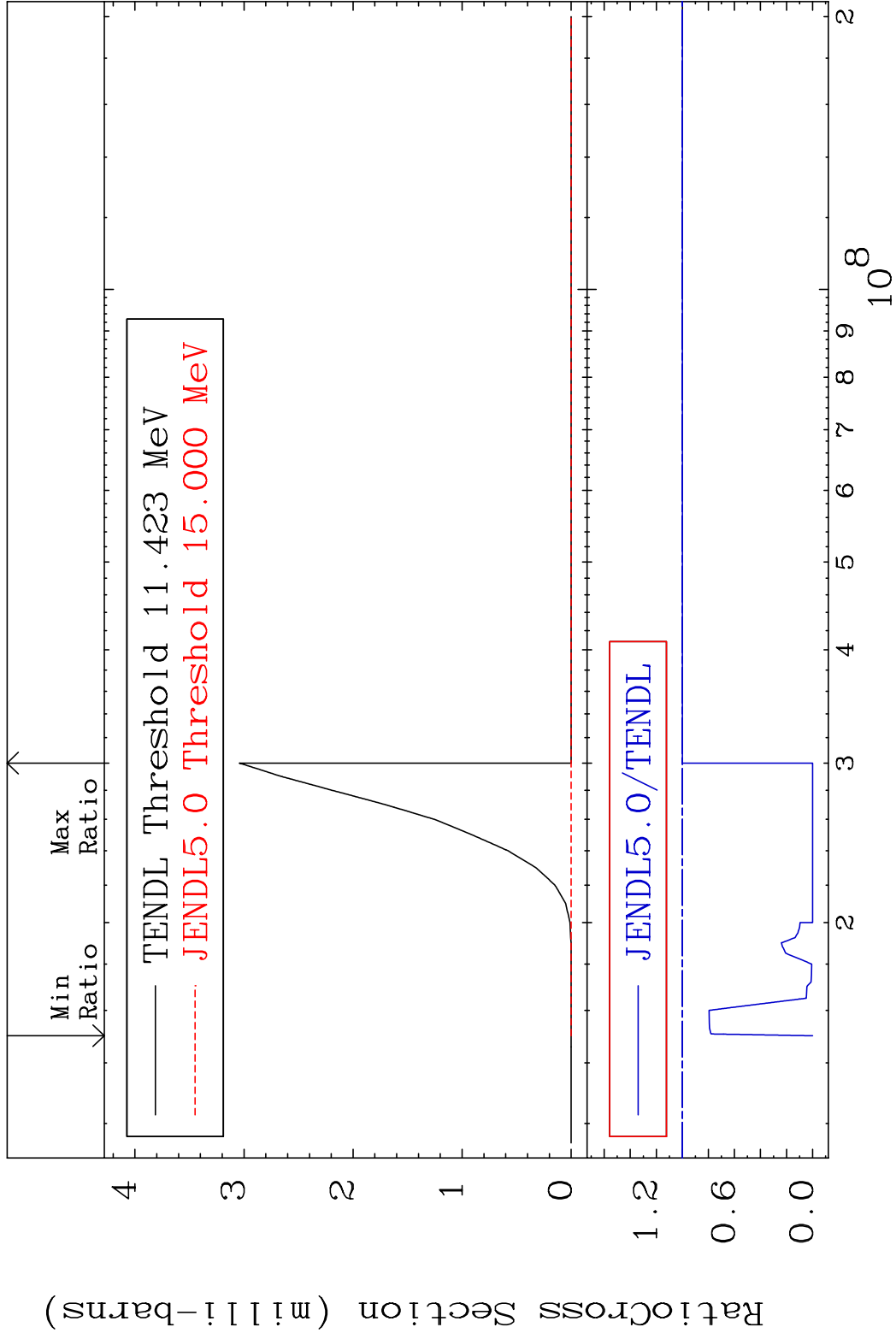
31-Ga-71

MAT 3131

(n, He-3)

31-Ga-71

Cross Section -100.0 To 0.000 %



31

Incident Energy (eV)

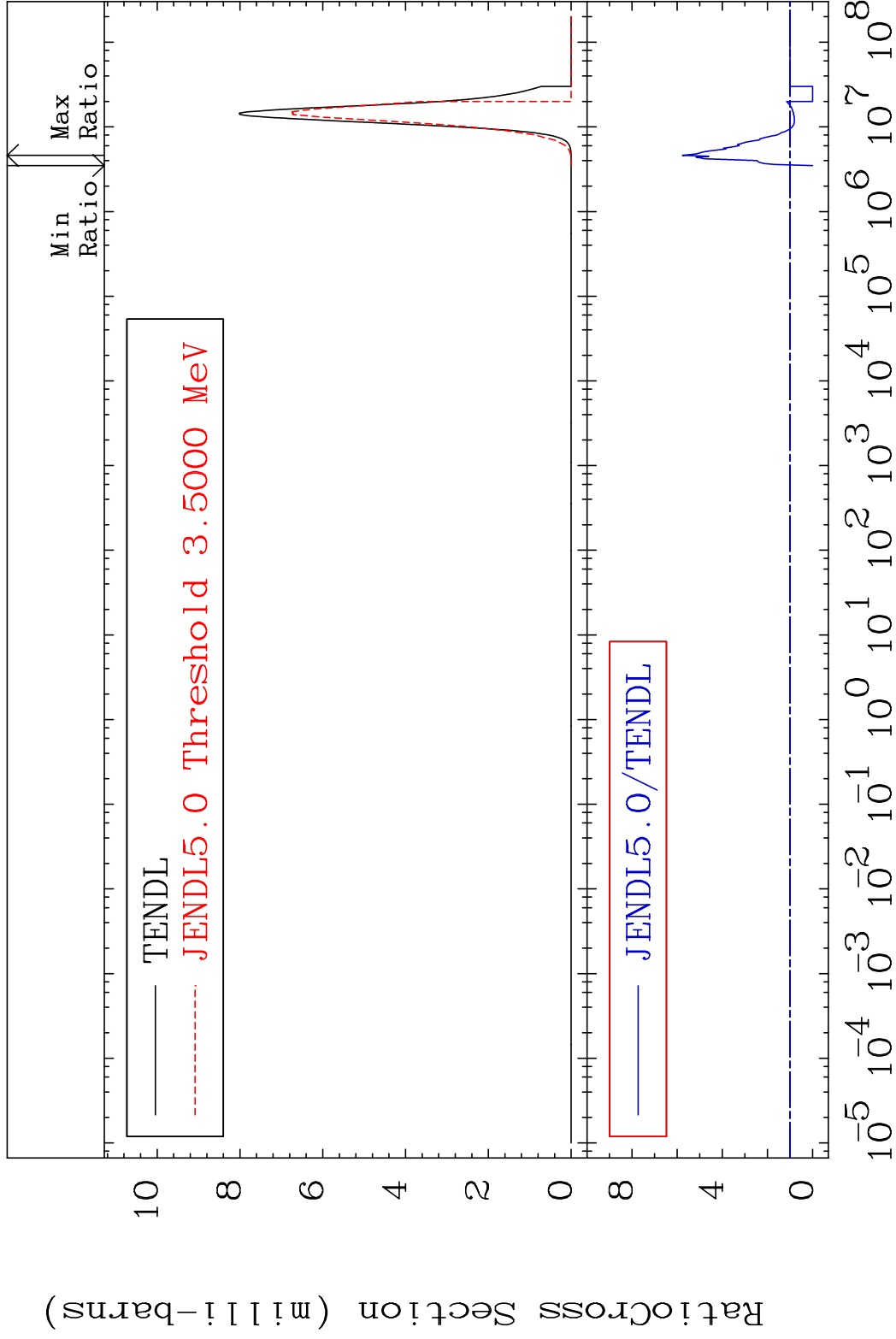
31-Ga-71

MAT 3131

(n, α)

31-Ga-71

Cross Section -100.0 To 476.8 %

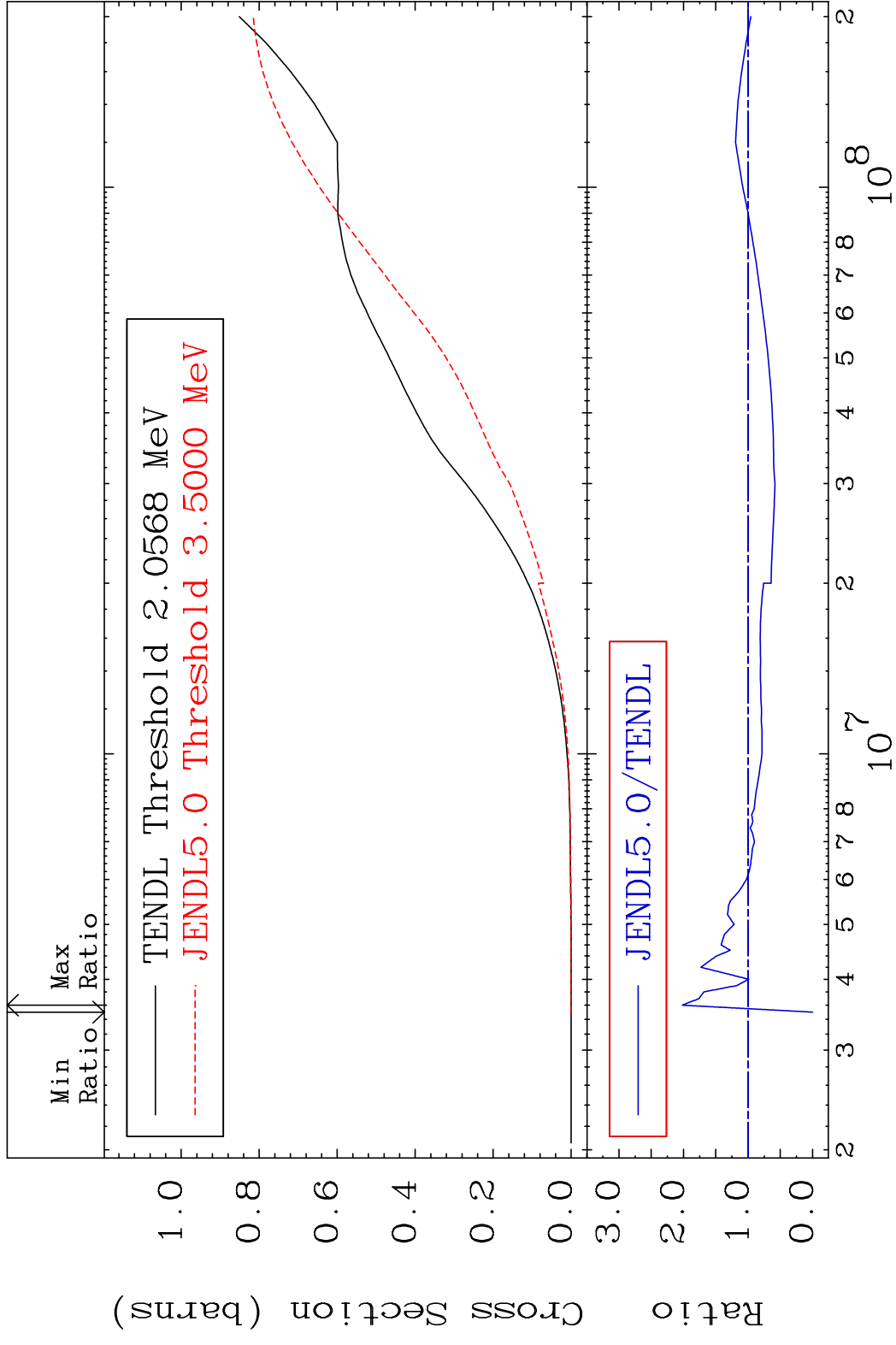


32

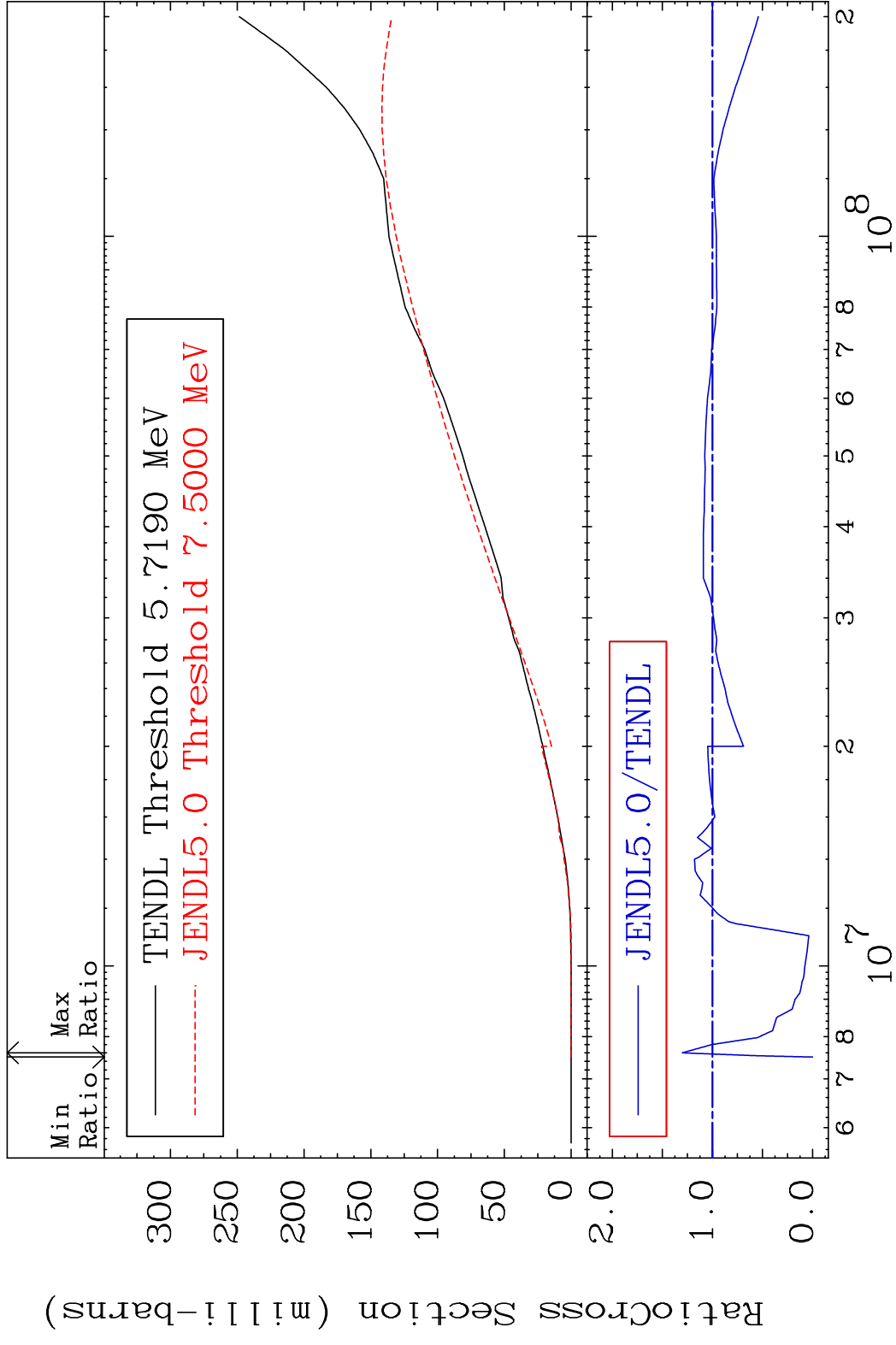
Incident Energy (eV)

31-Ga-71

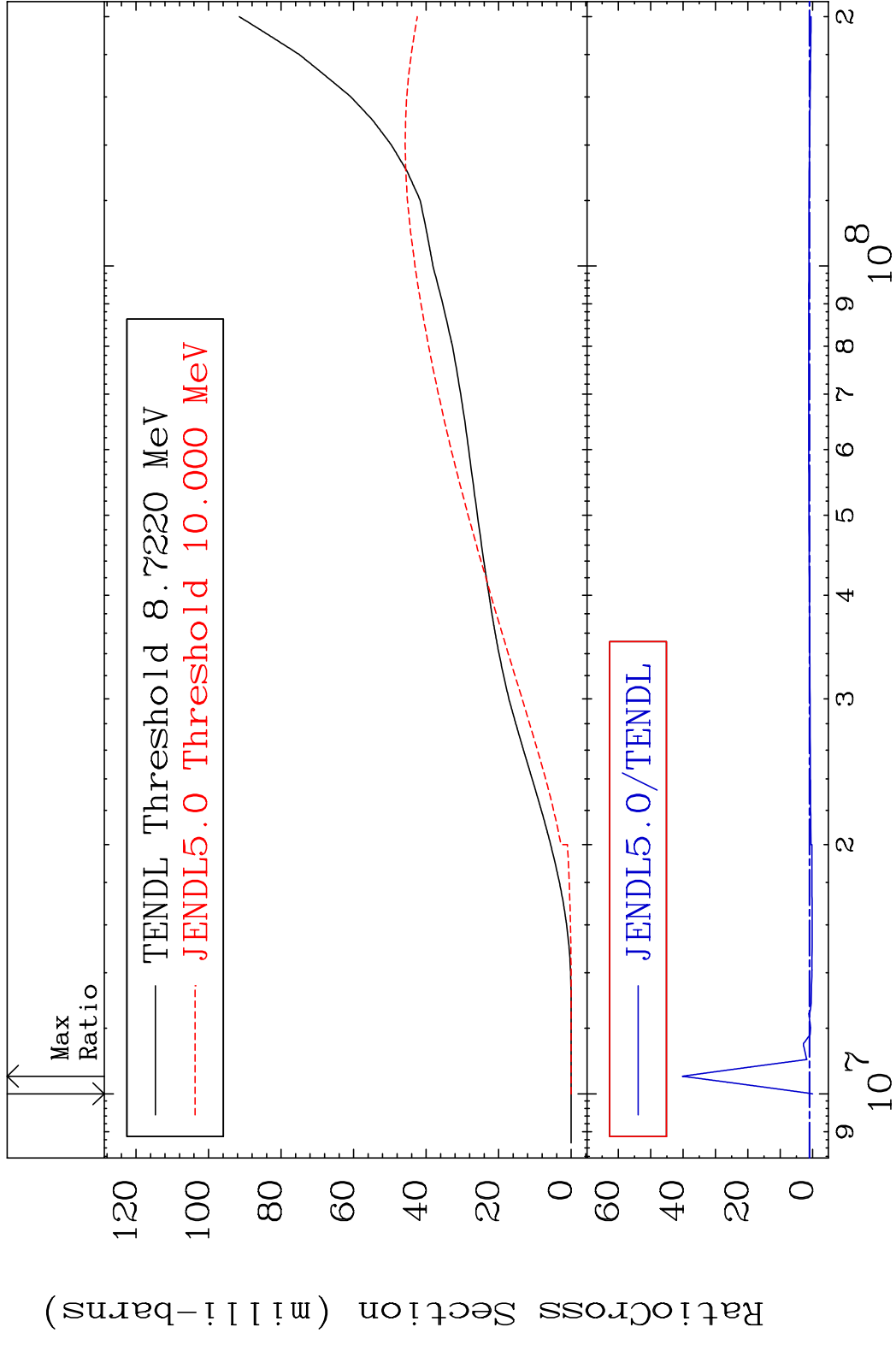
MAT 3131 Hydrogen Production 31-Ga-71
 Cross Section -100.0 To 101.8 %



MAT 3131 Deuterium Production 31-Ga-71
 Cross Section -100.0 To 30.02 %



MAT 3131 Tritium Production 31-Ga-71
 Cross Section -100.0 To 3920. %



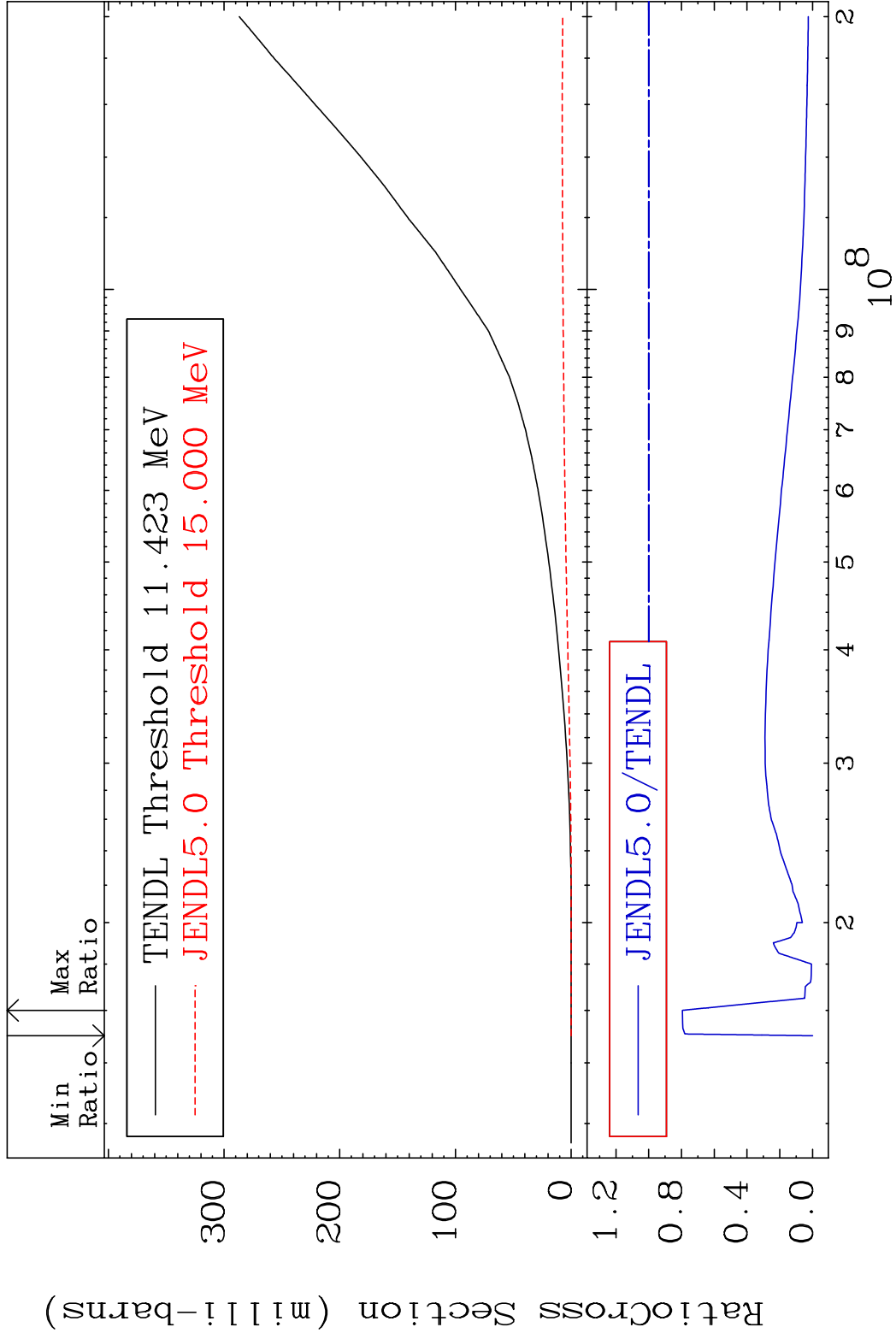
35 Incident Energy (eV) 31-Ga-71

MAT 3131

He-3 Production

31-Ga-71

Cross Section -100.0 To -20.52%

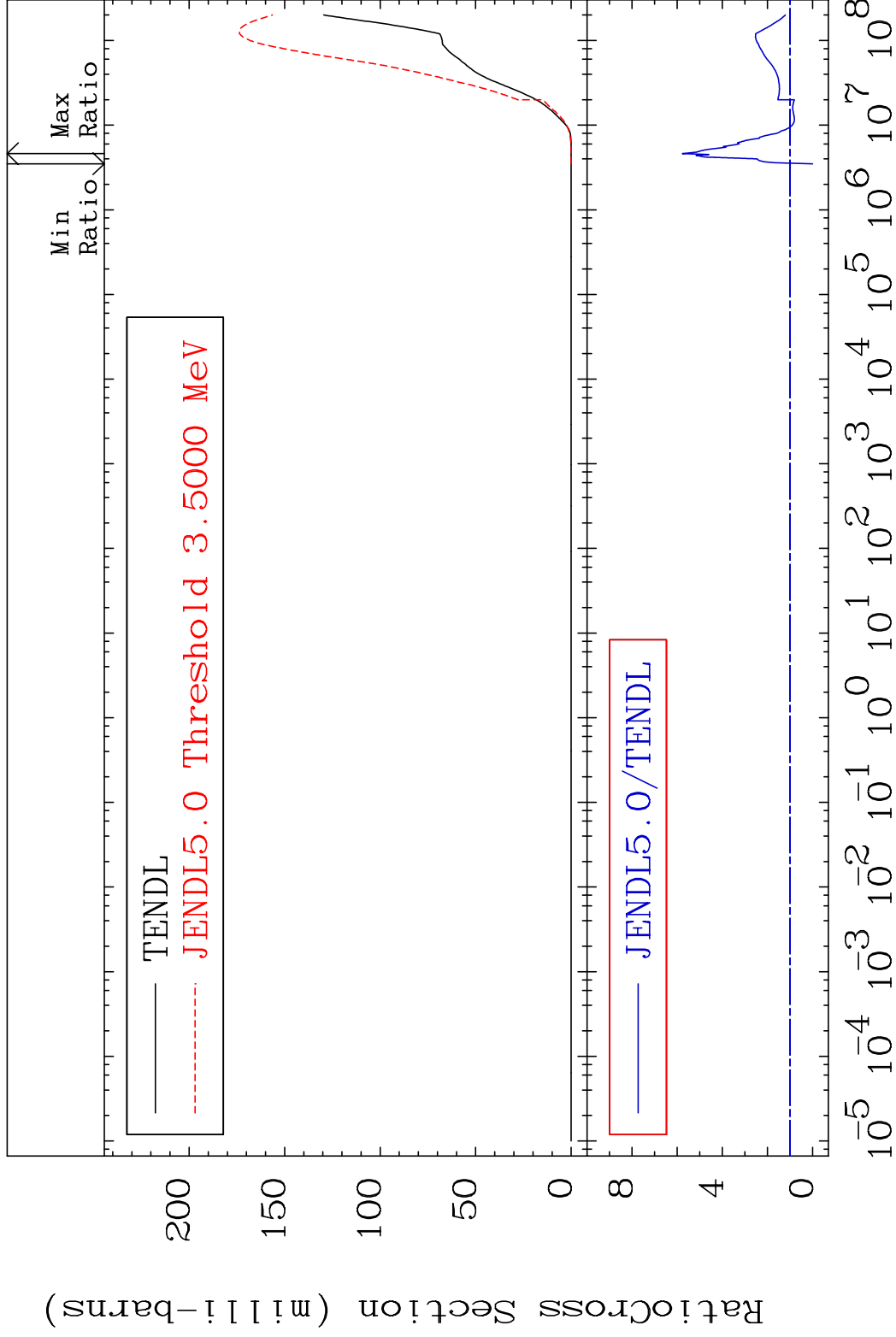


MAT 3131

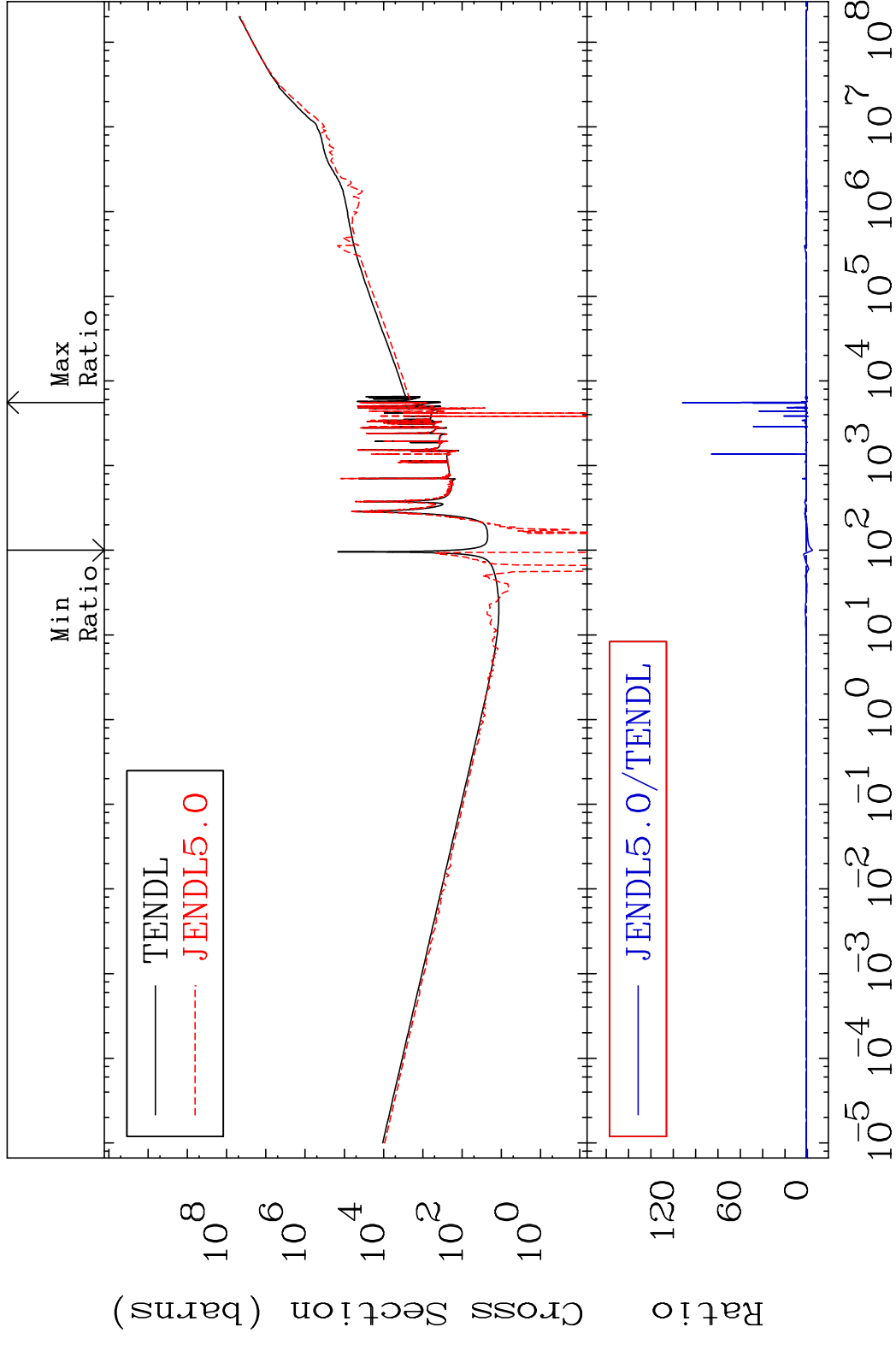
He-4 Production

31-Ga-71

Cross Section -100.0 To 476.8 %

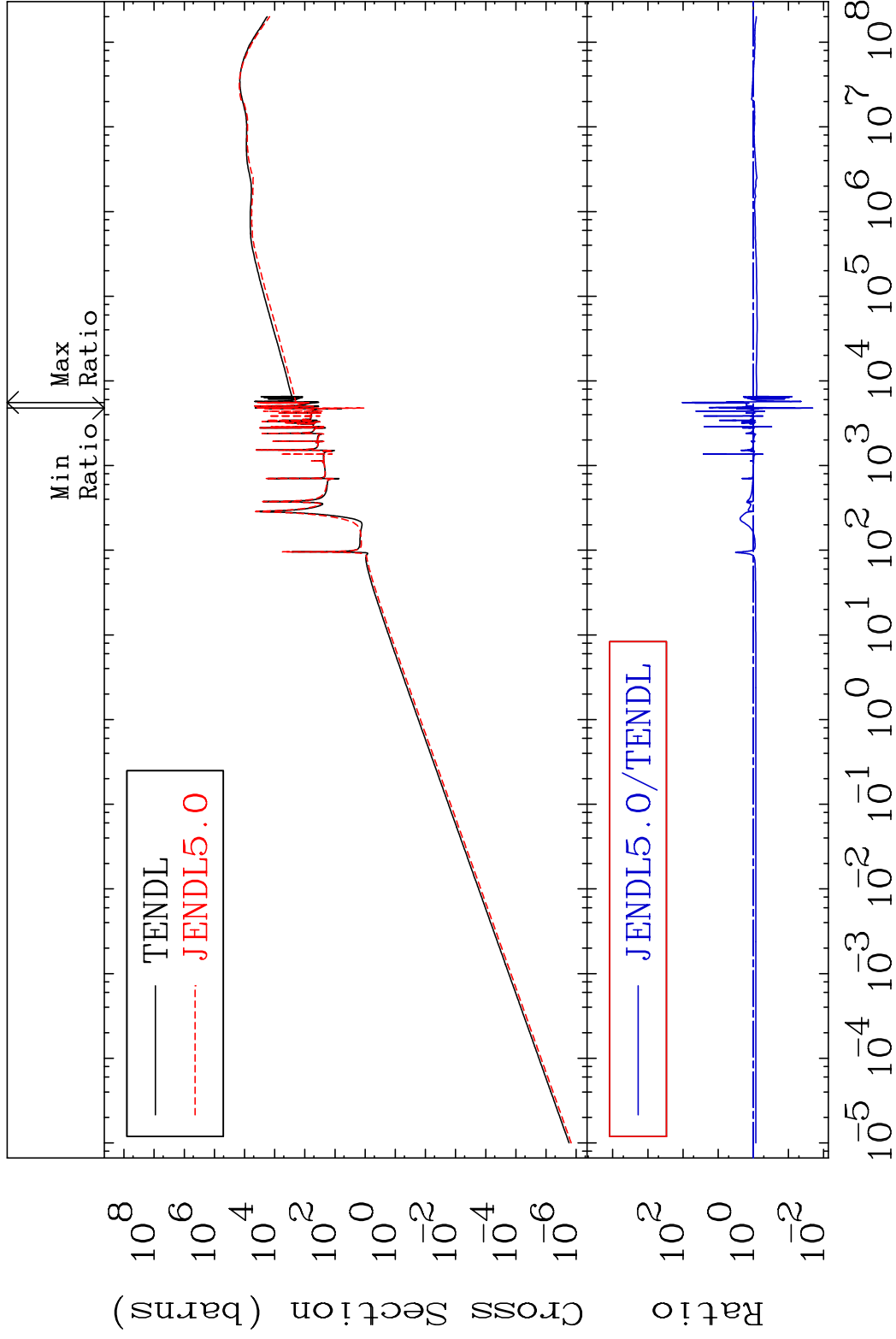


MAT 3131 Kerma total (eV-barns) 31-Ga-71
 Cross Section -560.4 To 9999. %



MAT 3131

Kerma elastic Cross Section -97.94 To 9999. %
31-Ga-71

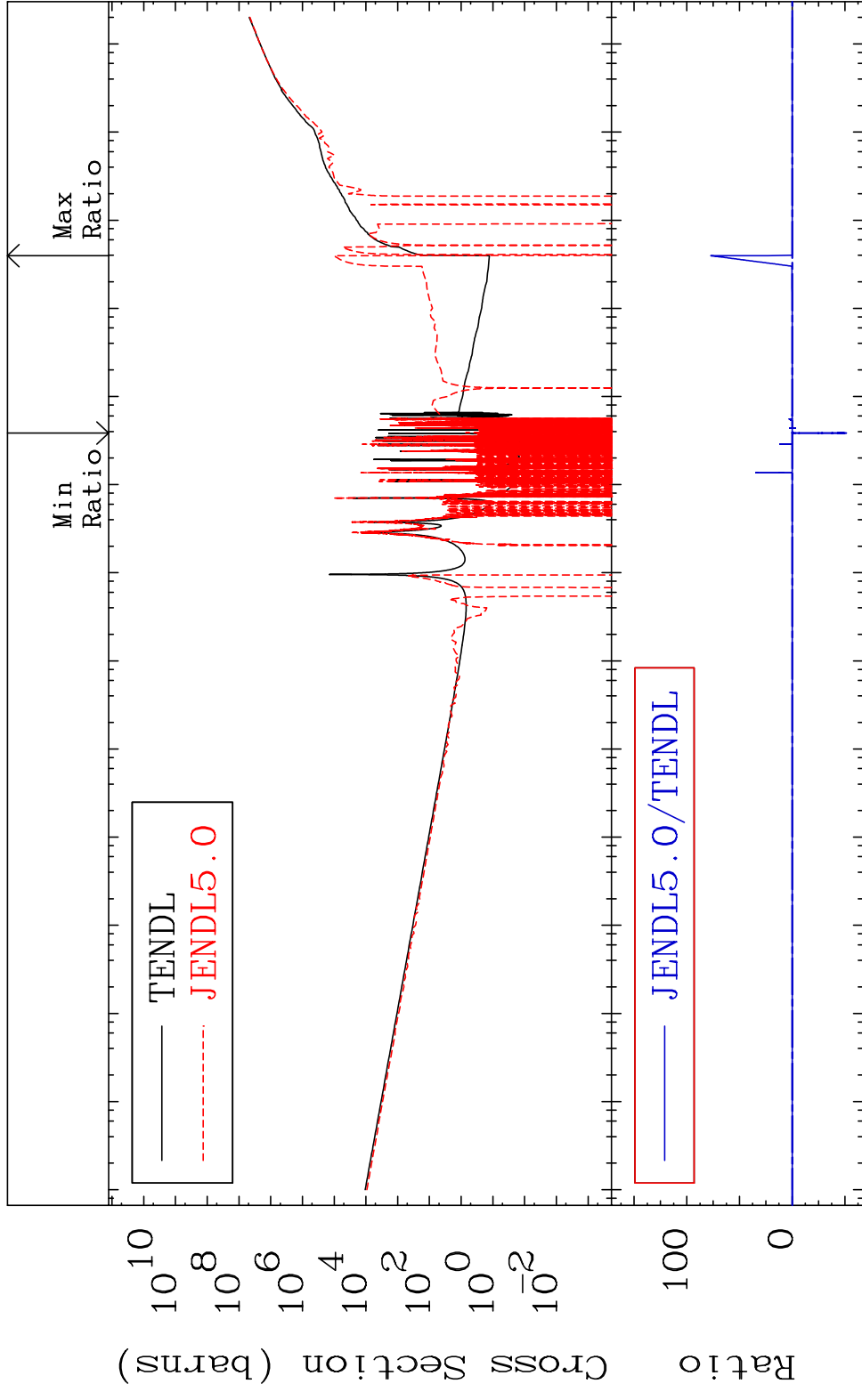


39

Incident Energy (eV)

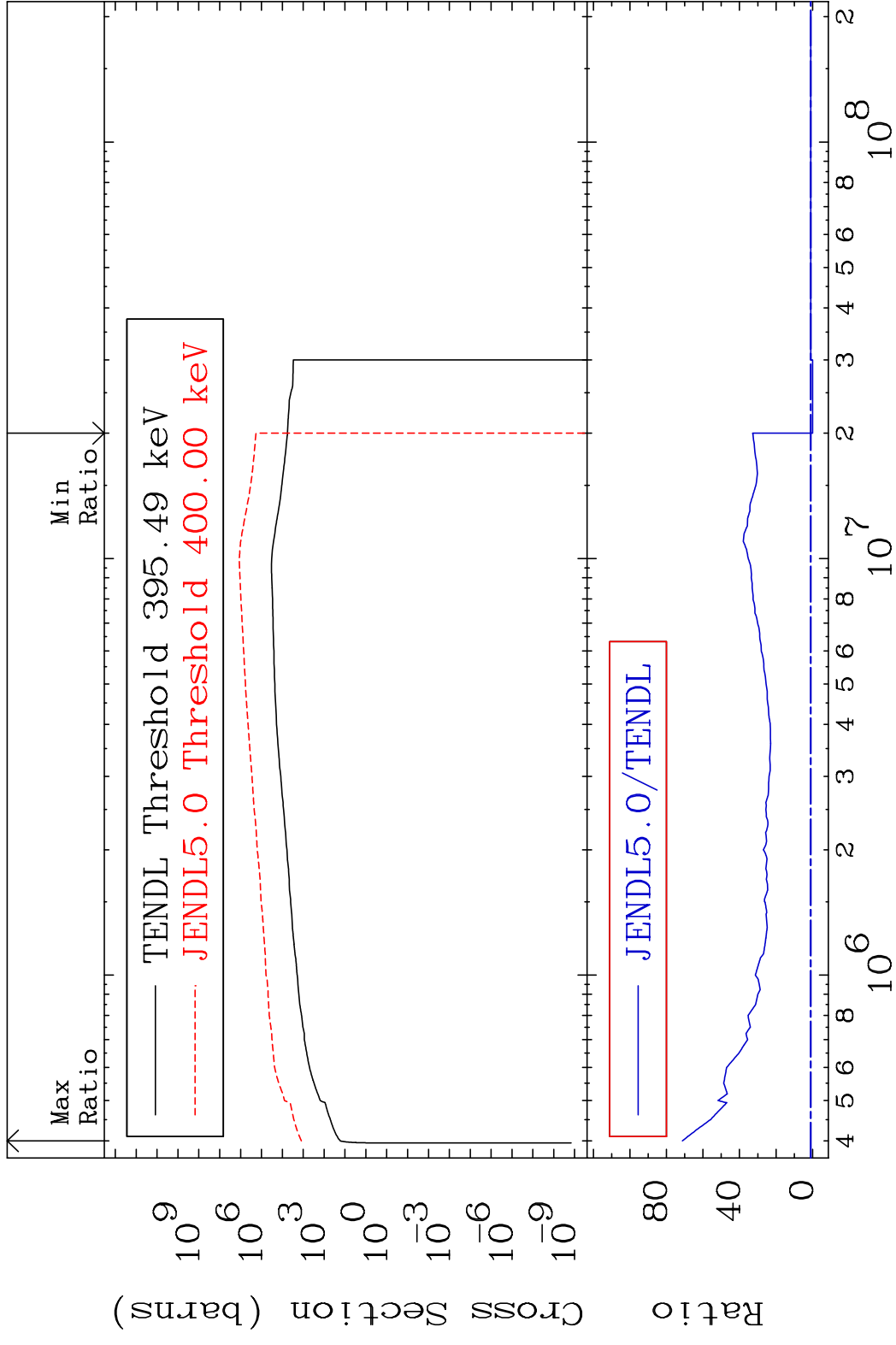
31-Ga-71

MAT 3131 Kerma non-elastic (all but mt2) 31-Ga-71
 Cross Section -9999. To 9999. %

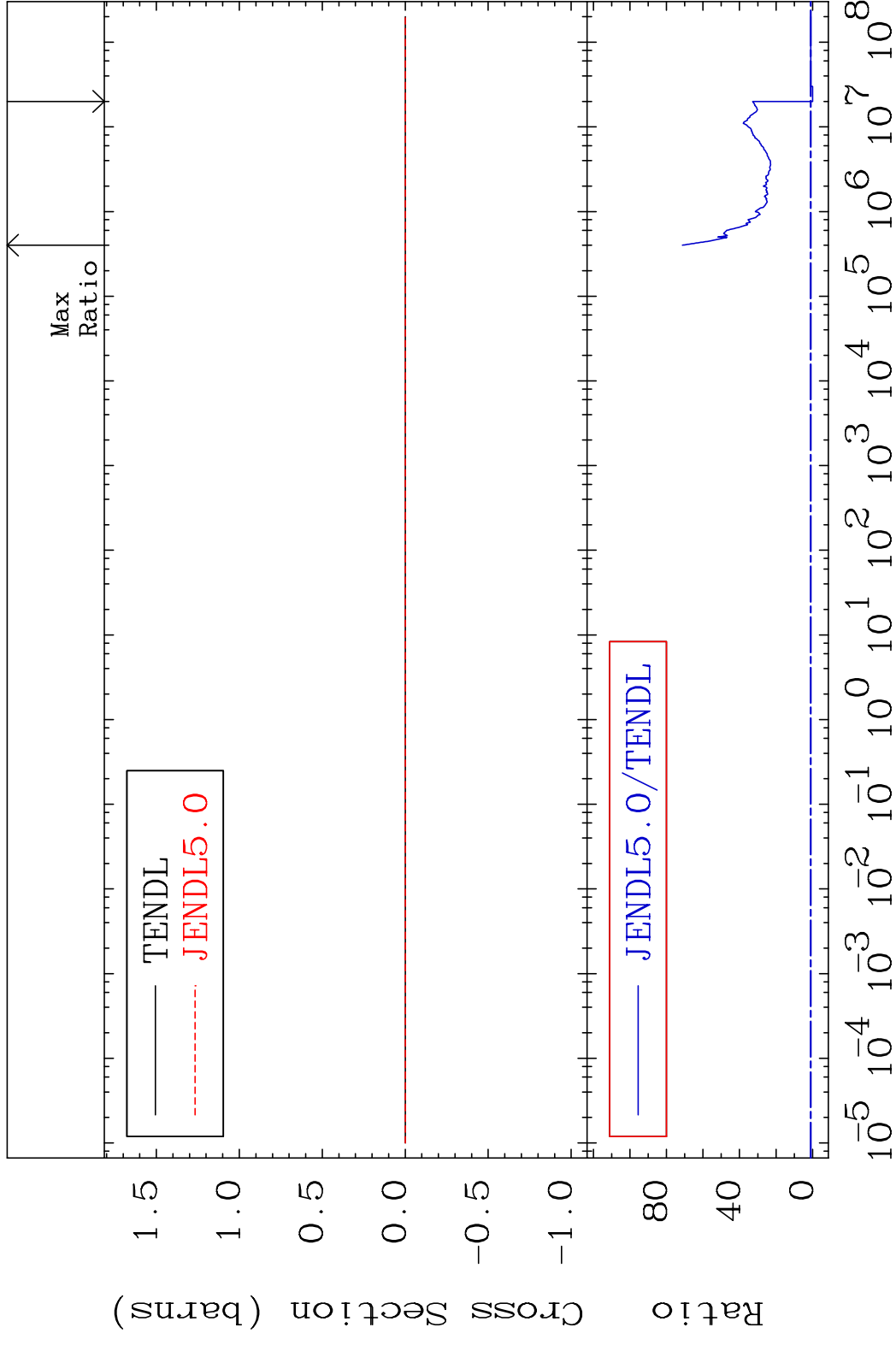


40 Incident Energy (eV) 31-Ga-71

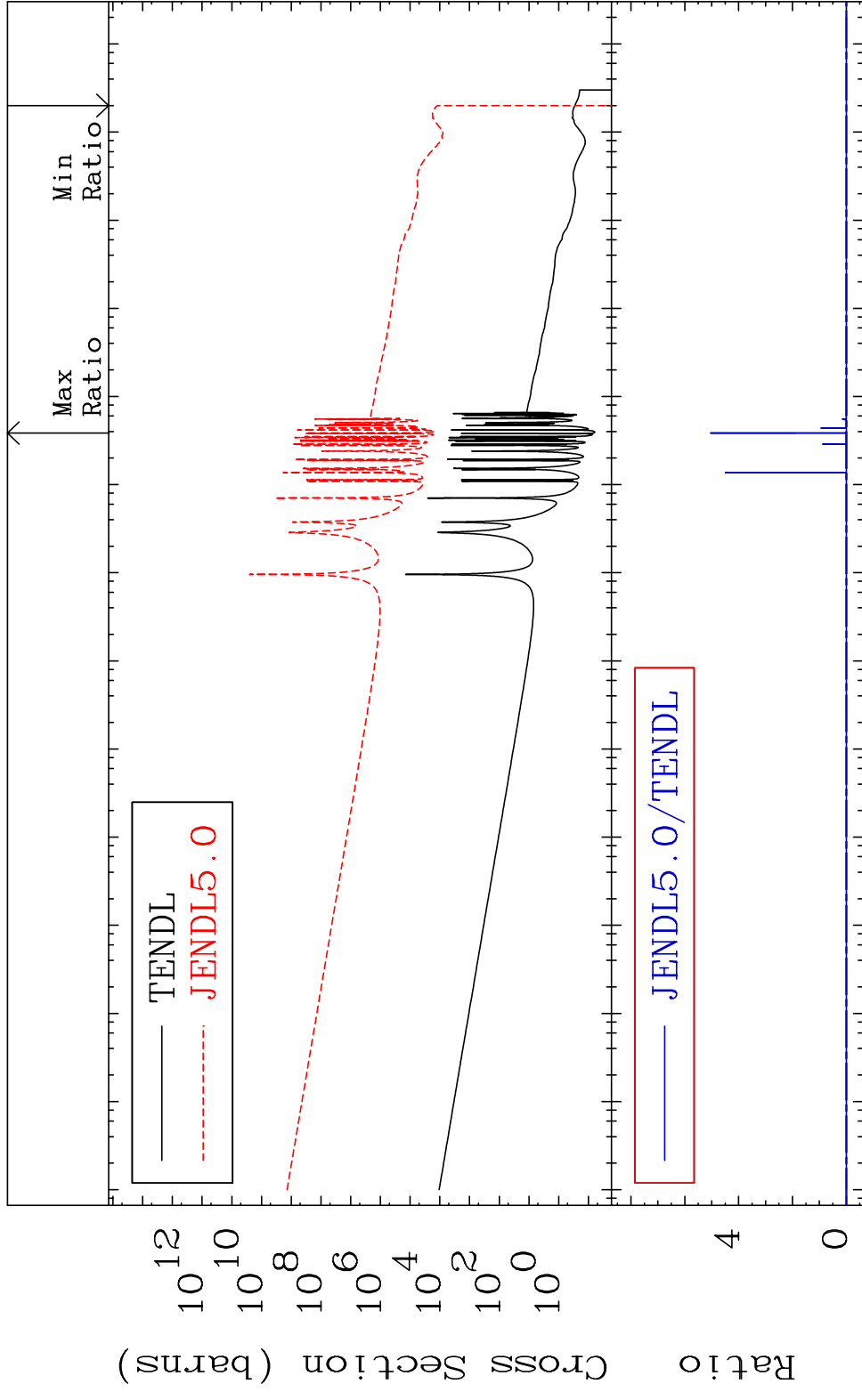
MAT 3131 Kerma inelastic (mt51-91) 31-Ga-71
 Cross Section -100.0 To 7030. %



MAT 3131 Kerma fission (mt18 or mt19-20-21-38) 31-Ga-71
 Cross Section -100.0 To 7030. %

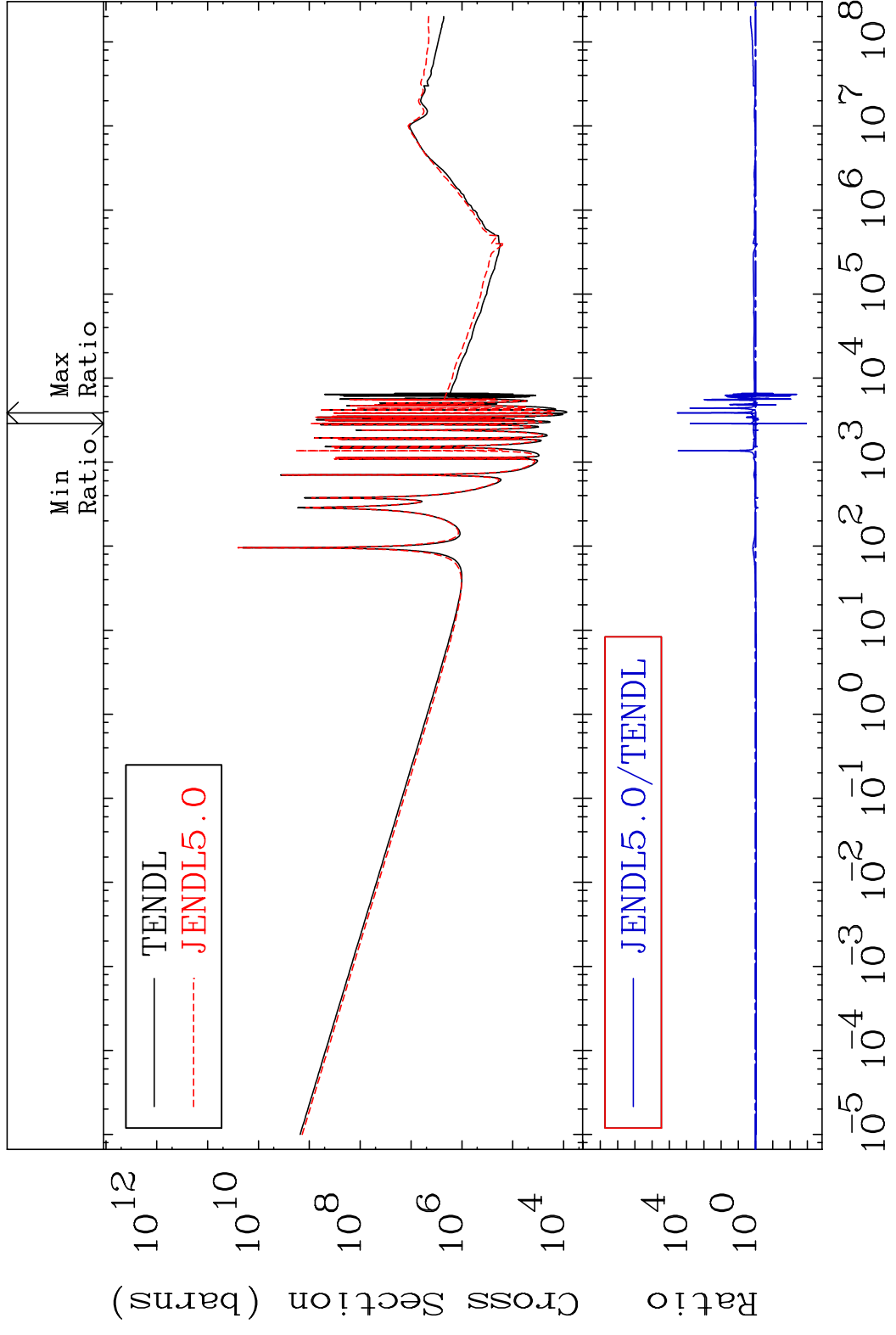


MAT 3131 Kerma capture (mt102) 31-Ga-71
 Cross Section -100.0 To 9999. %

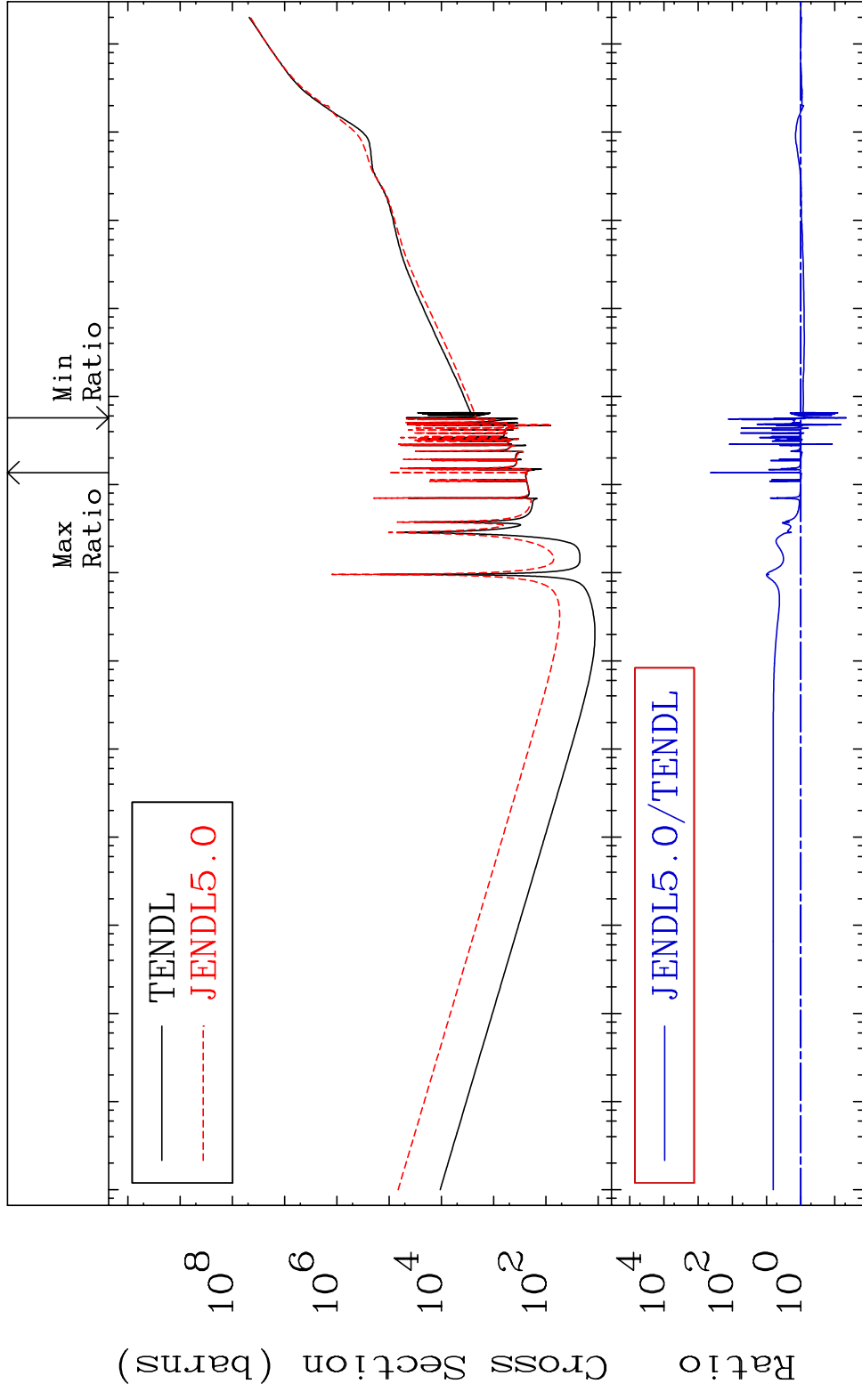


43 Incident Energy (eV) 31-Ga-71

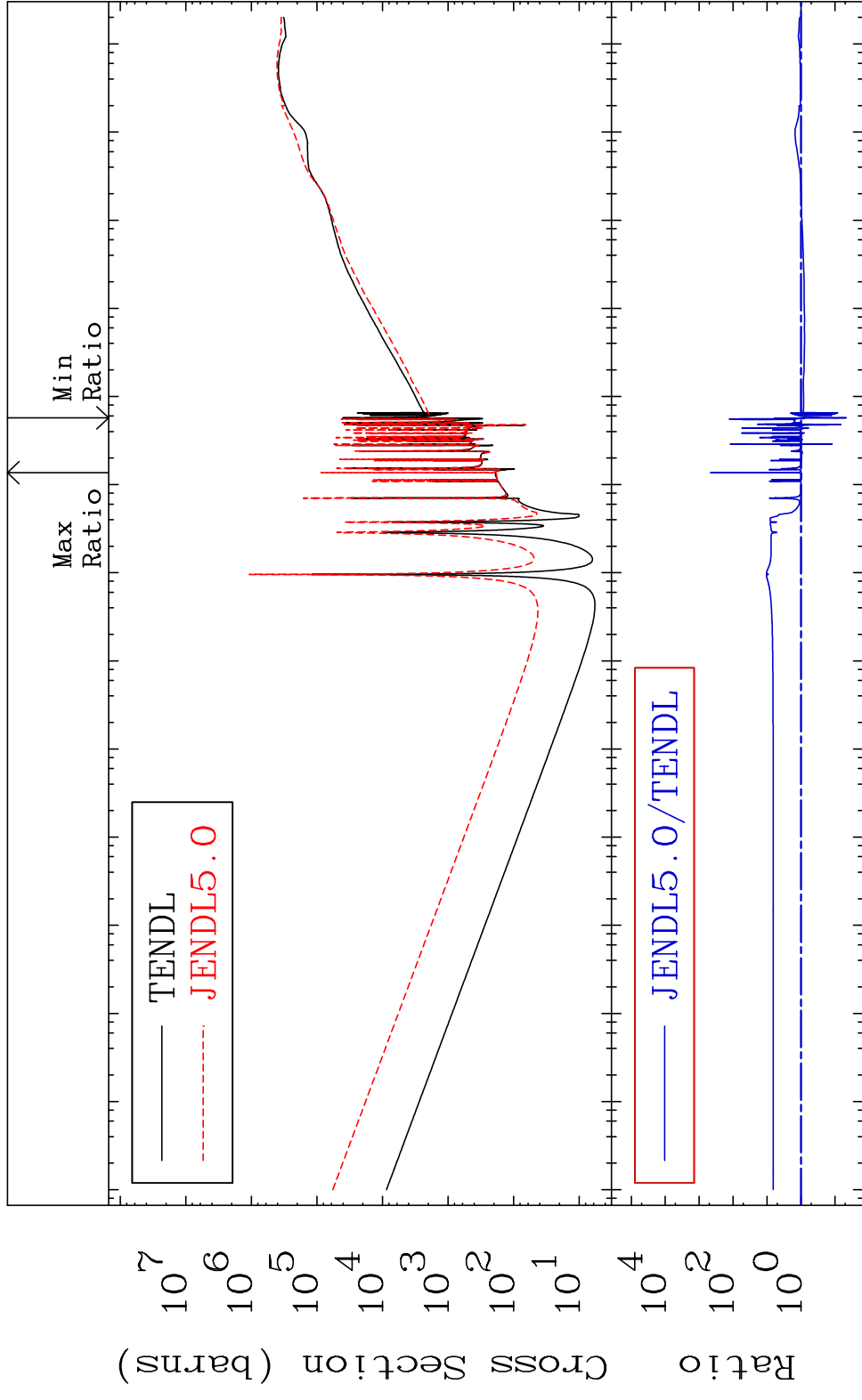
MAT 3131 Total photon (eV-barns) 31-Ga-71
 Cross Section -99.89 To 9999. %



MAT 3131 Total kinematic kerma (high limit) 31-Ga-71
 Cross Section -95.38 To 9999. %



MAT 3131 Dpa total (eV-barns) 31-Ga-71
 Cross Section -95.39 To 9999. %



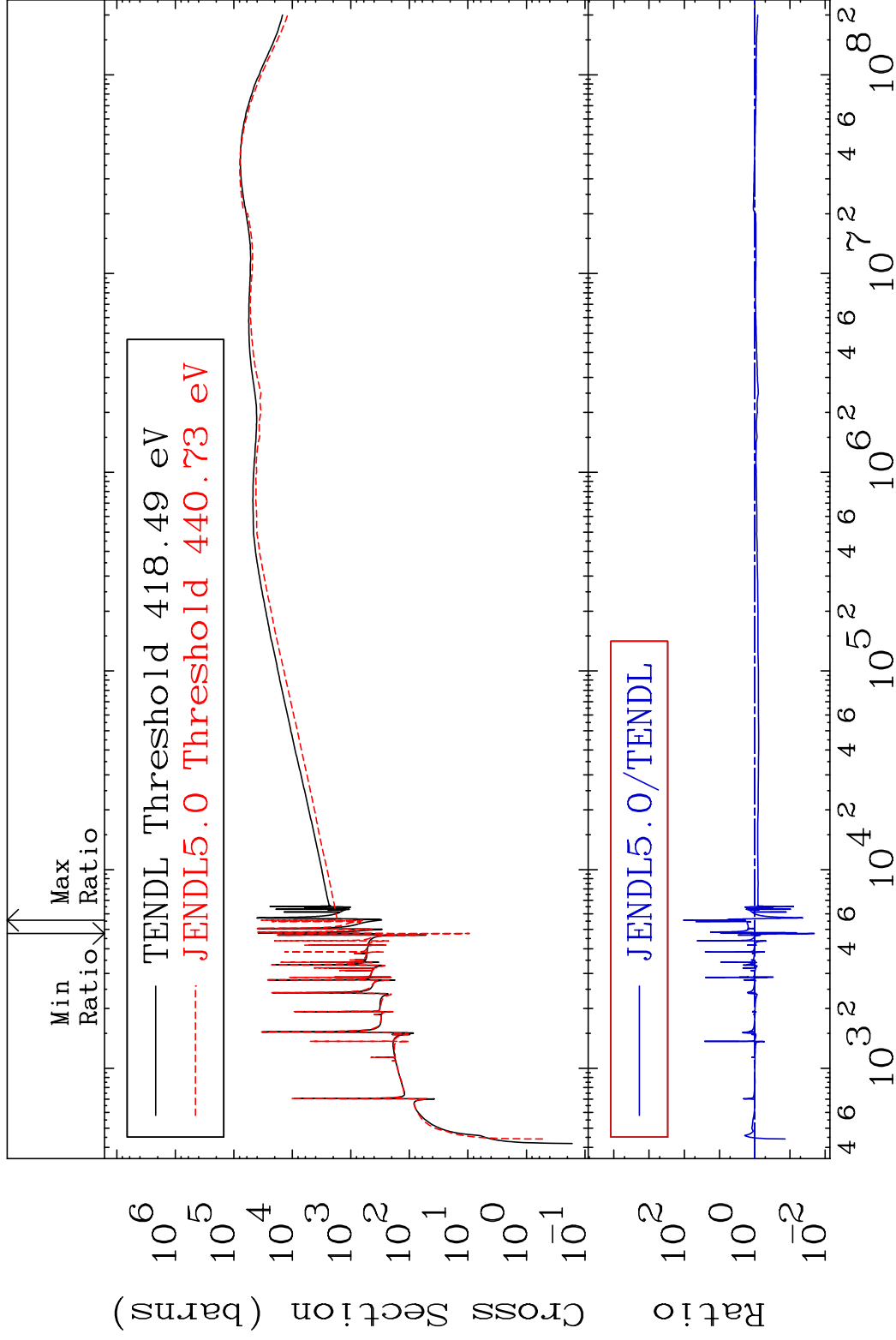
46 Incident Energy (eV) 31-Ga-71

MAT 3131

Dpa elastic (mt2)

31-Ga-71

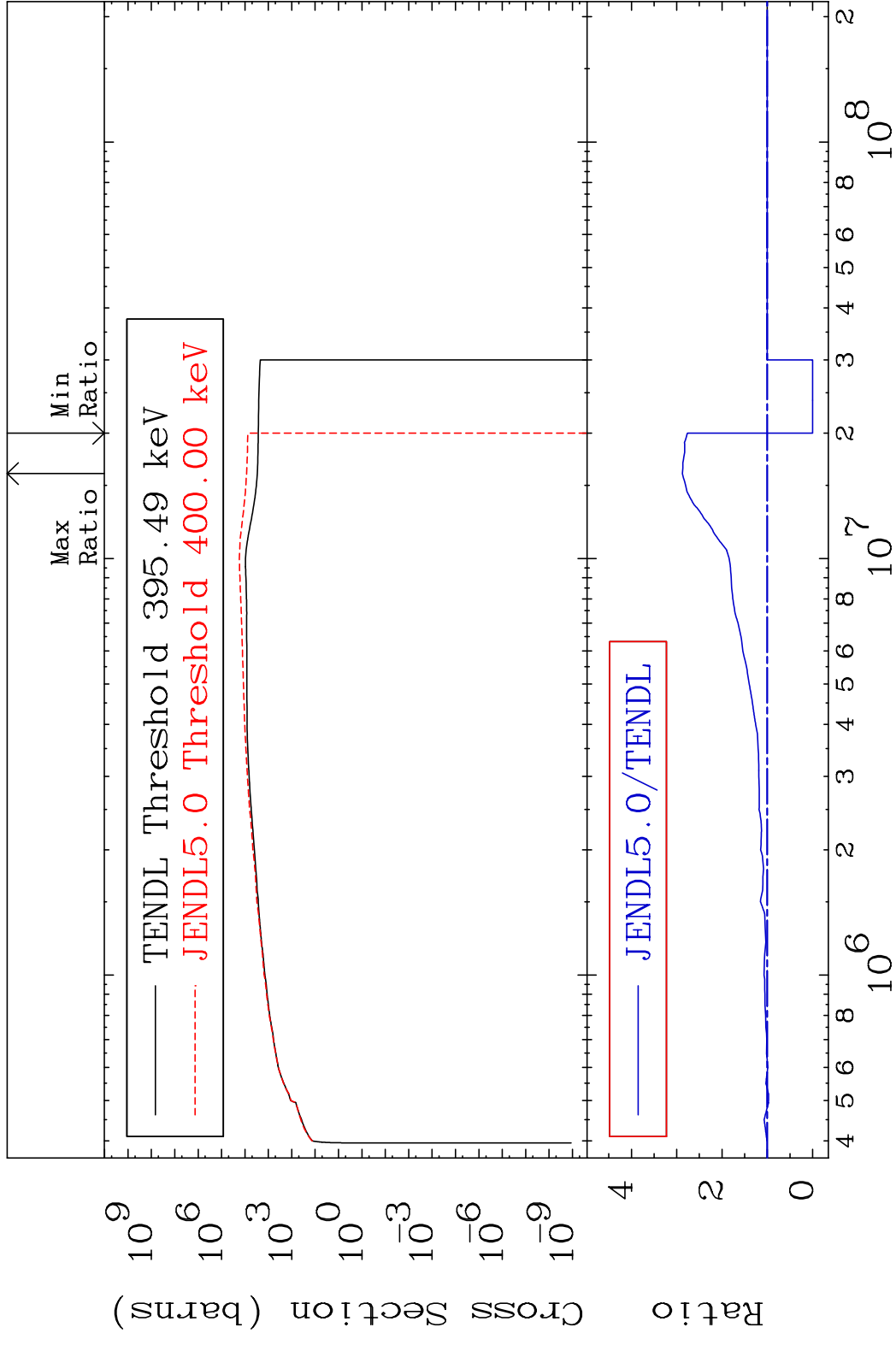
Cross Section -97.94 To 9999. %



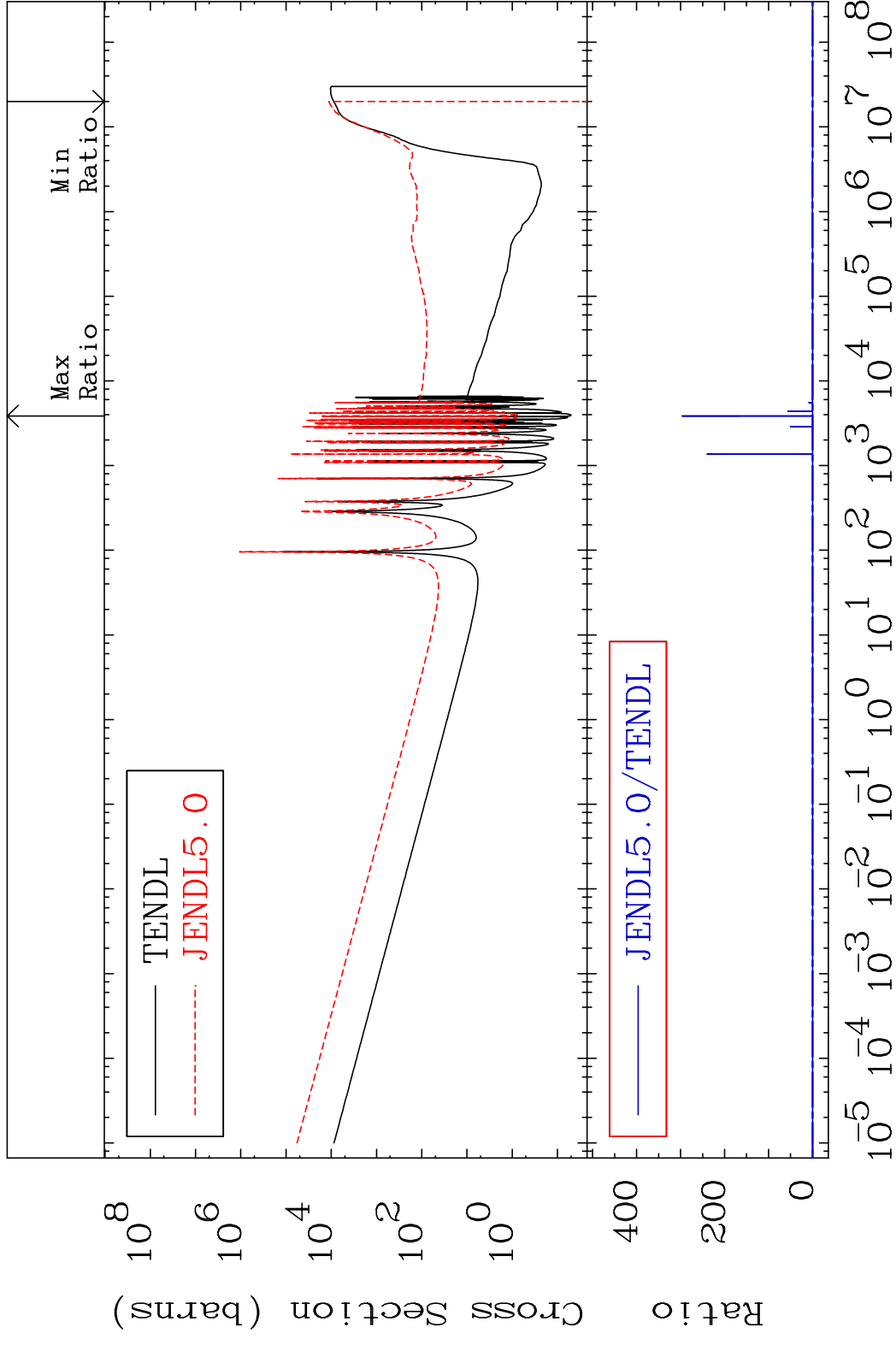
47

Incident Energy (eV)

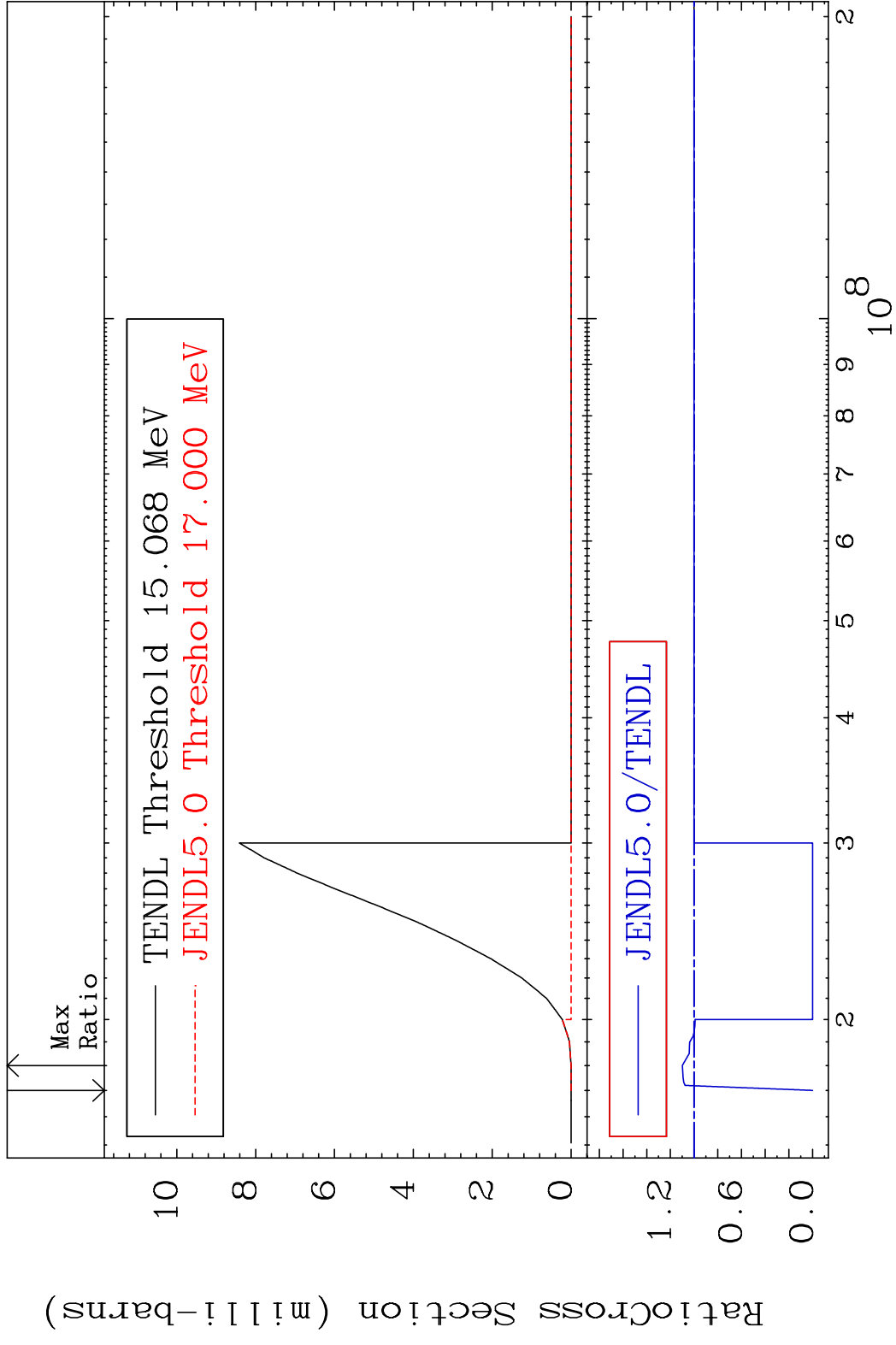
31-Ga-71



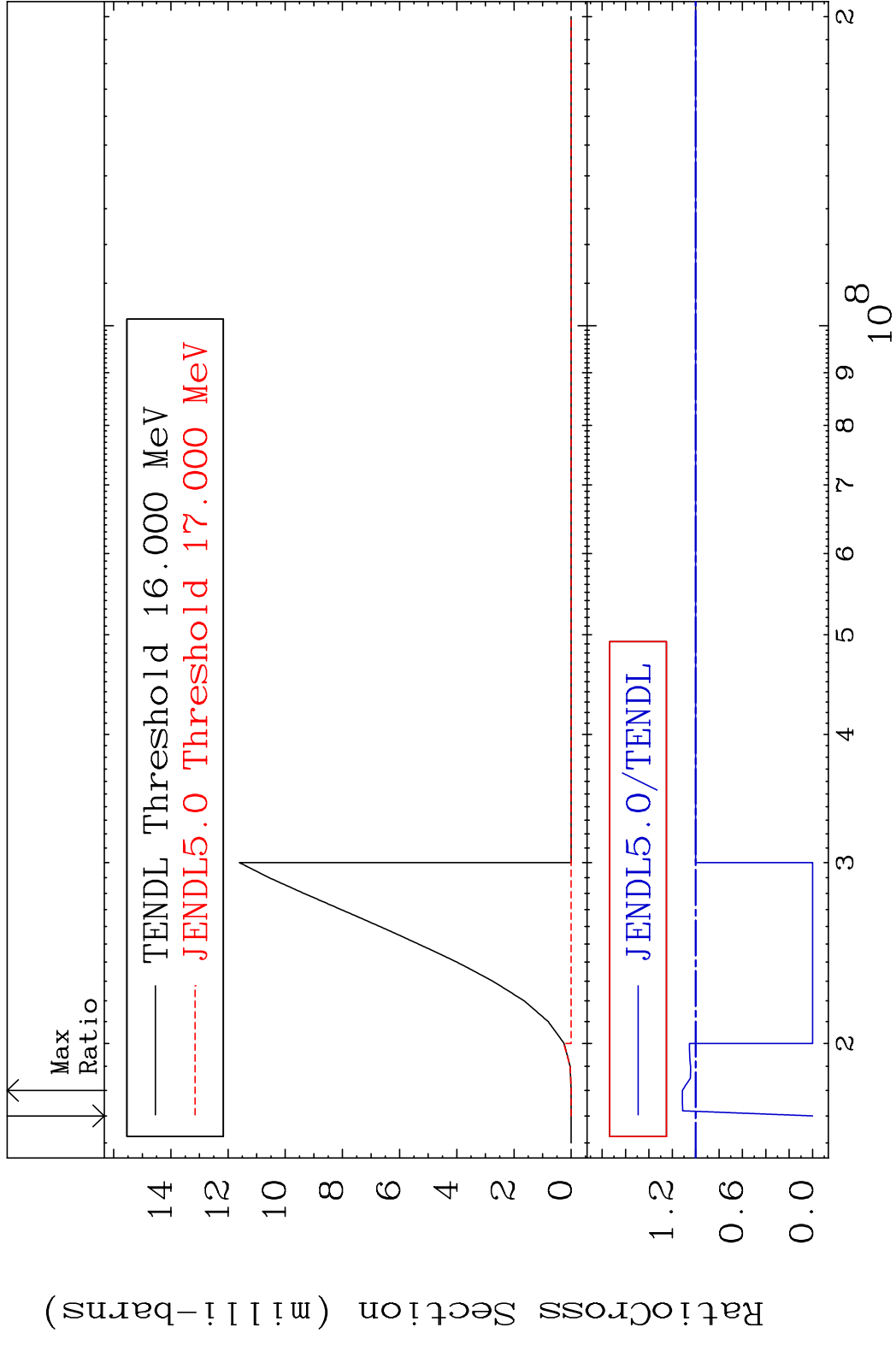
MAT 3131 Dpa disappearance (mt102 -120) 31-Ga-71
 Cross Section -100.0 To 9999. %



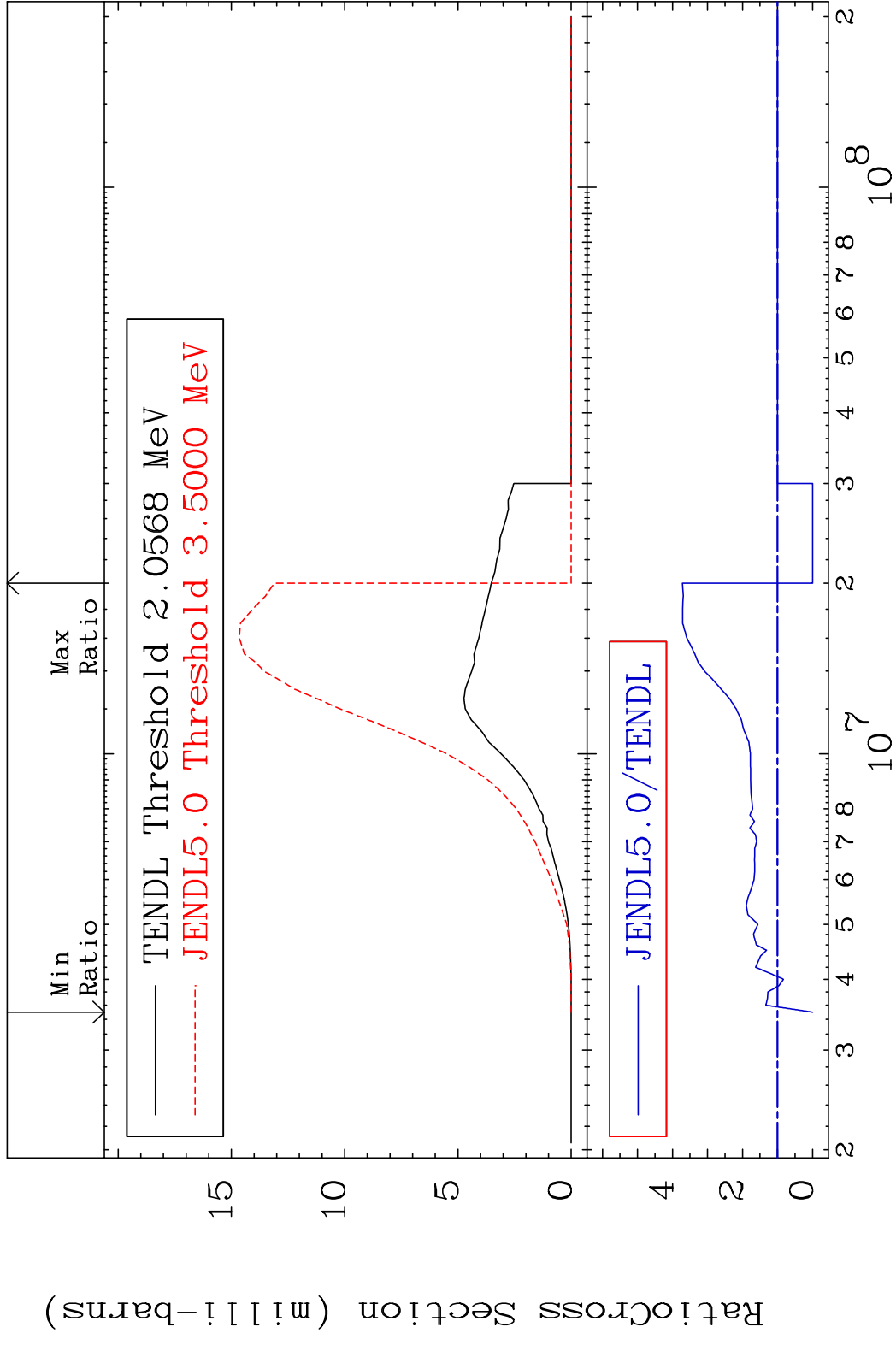
49 Incident Energy (eV) 31-Ga-71

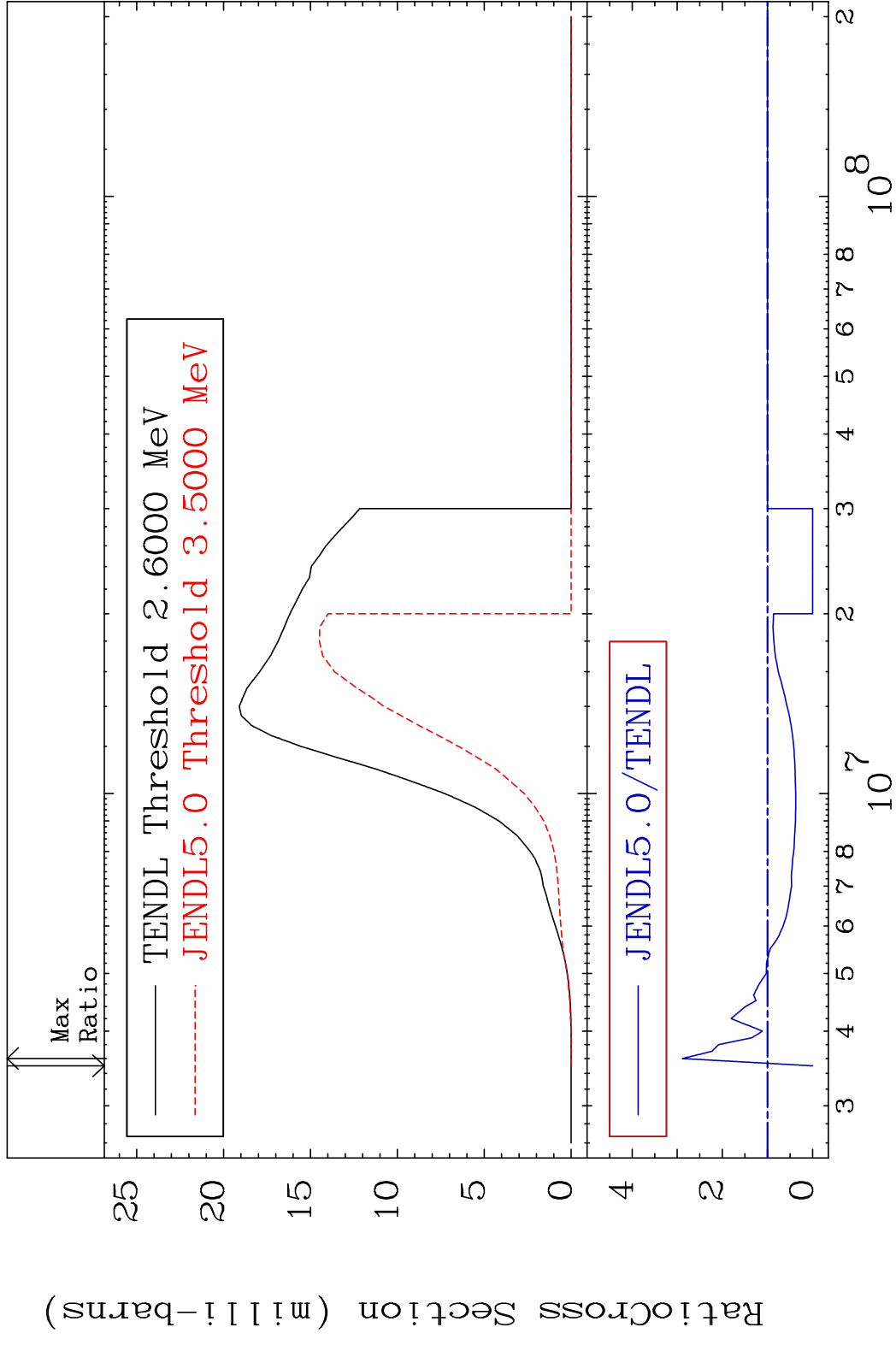


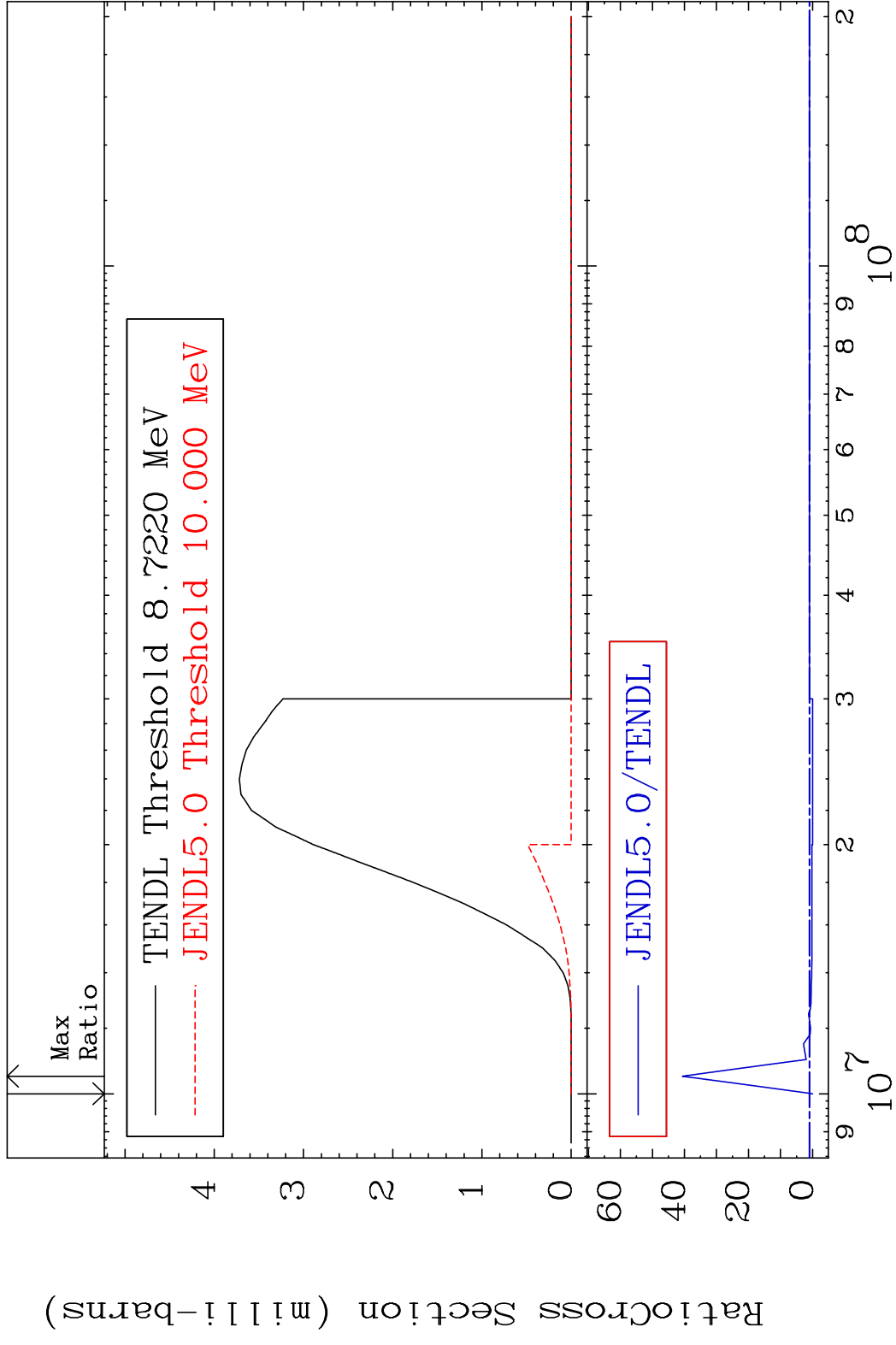
MAT 3131 (n, n') d:30-Zn-69m1 31-Ga-71
 Radionuclide Production Cross Section 18.00 mb 11.41 %



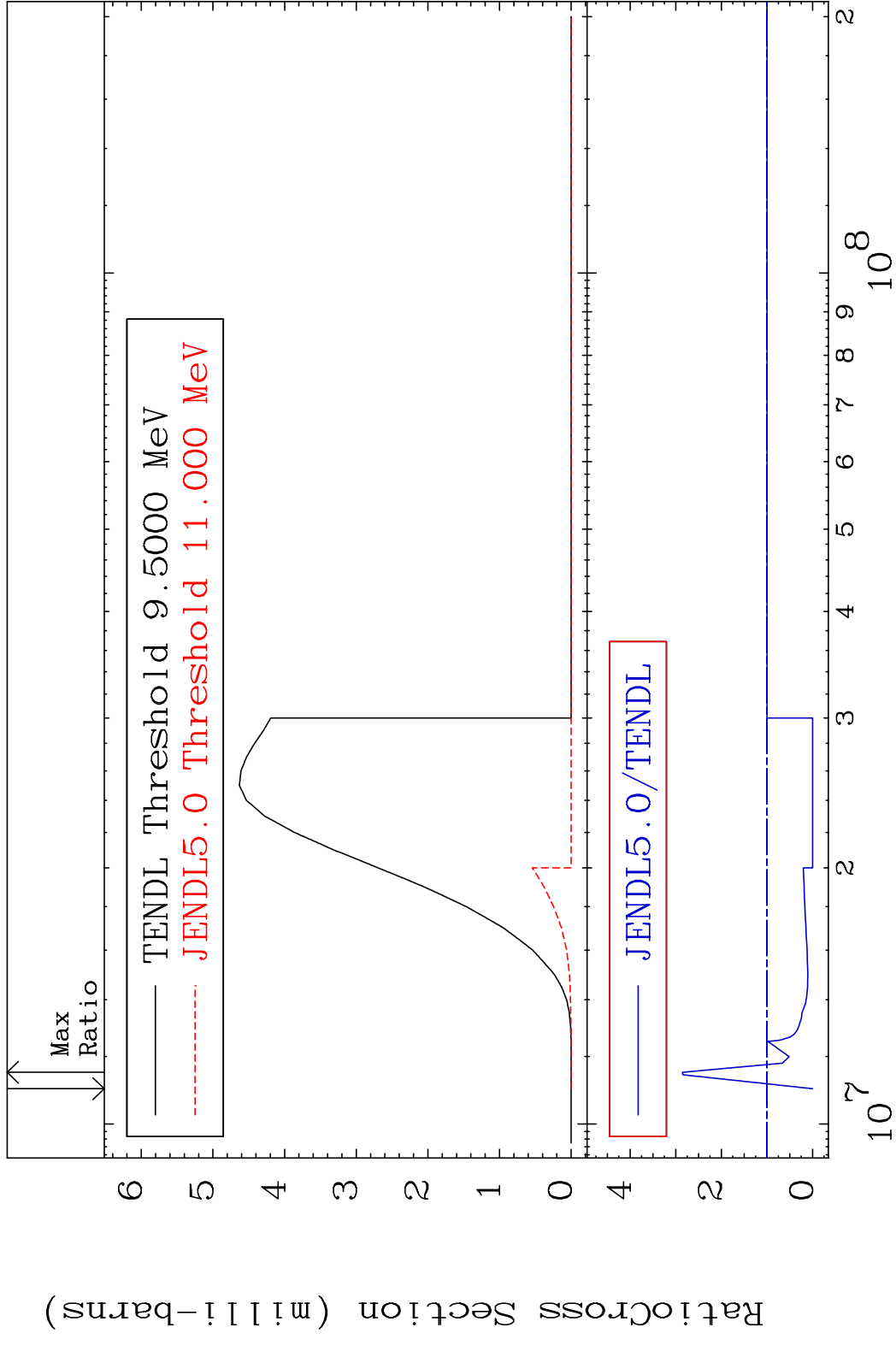
MAT 3131 (n, p):30-Zn-71g 31-Ga-71
 Radionuclide Production Cross Section 180.01 dth 271.9 %



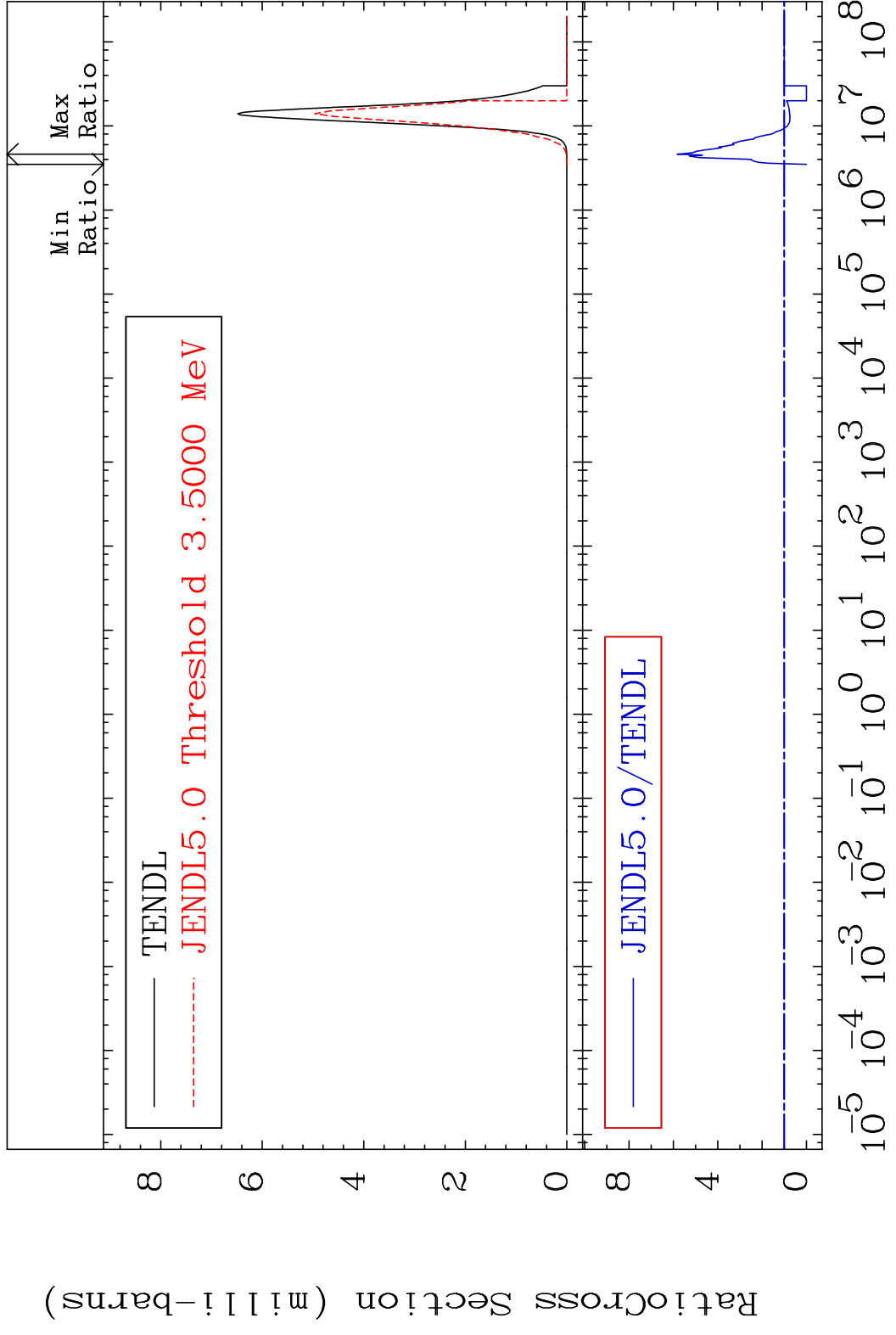




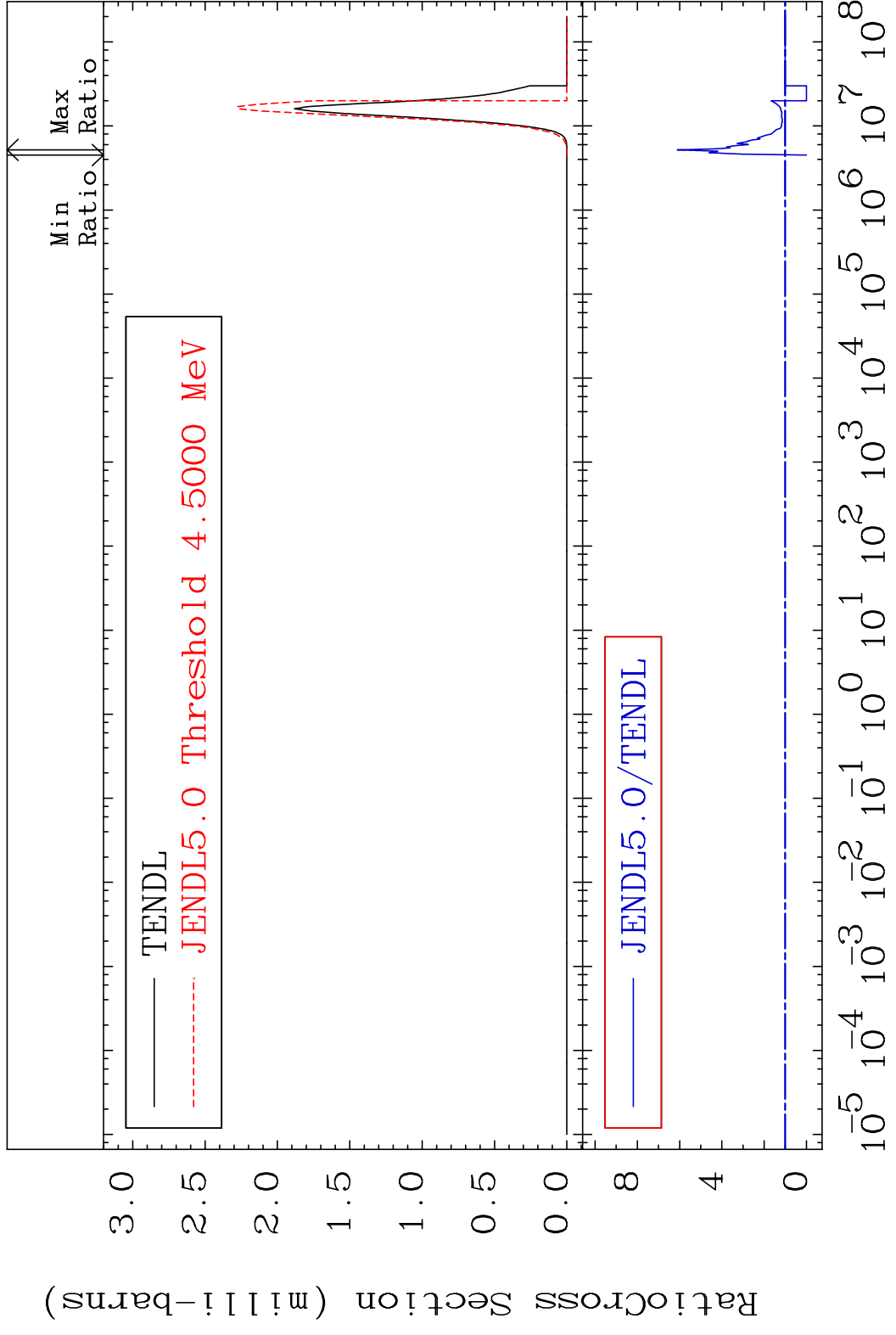
MAT 3131 (n, t):30-Zn-69m1 31-Ga-71
 Radionuclide Production Cross Section 185.4 %



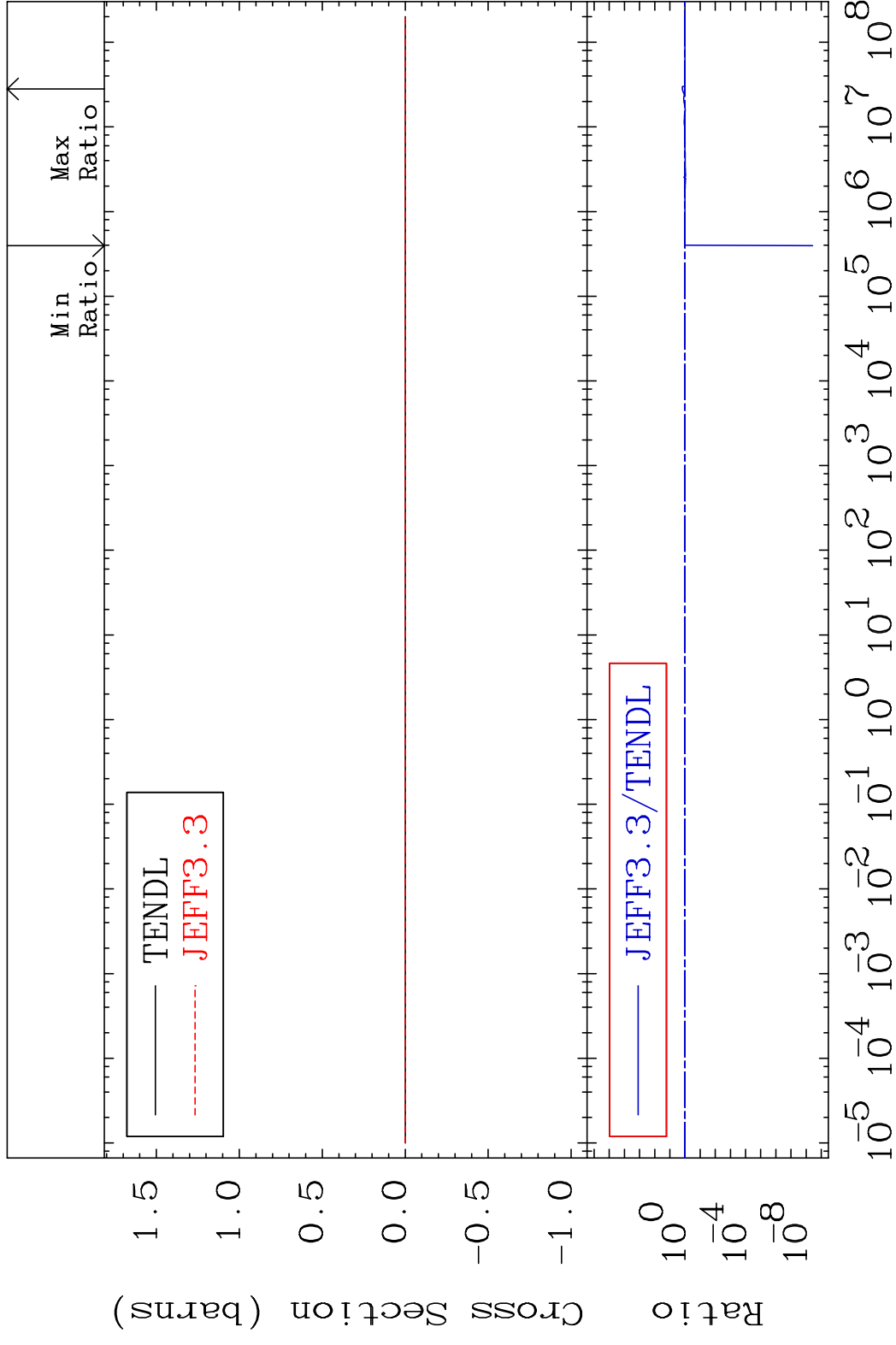
MAT 3131 (n, α): 29-Cu-68g 31-Ga-71
 Radionuclide Production Cross Section Ratio 483.0 %



MAT 3131 (n,α):29-Cu-68m3 31-Ga-71
 Radionuclide Production Cross Section 180.0 dth 511.5 %



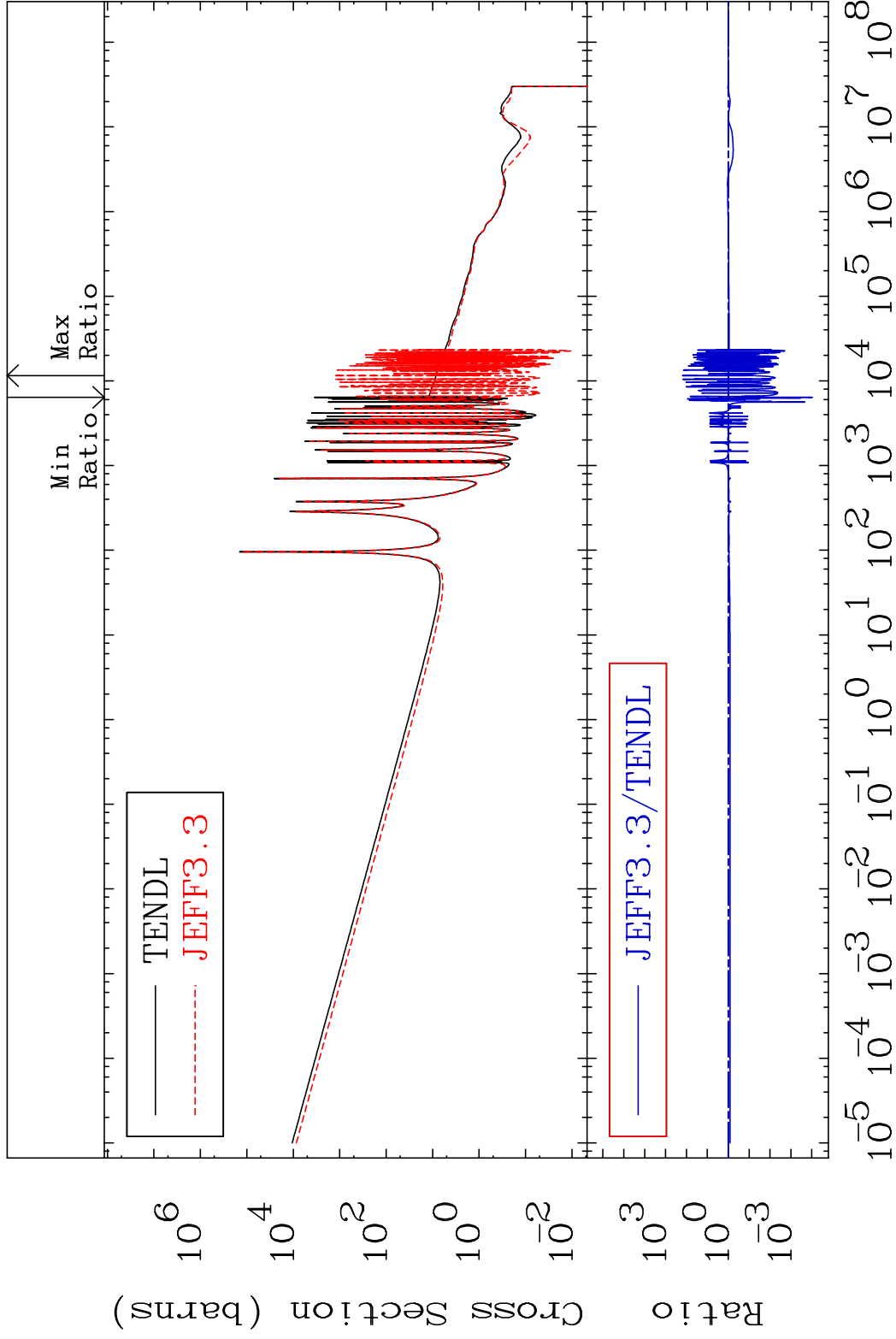
MAT 3131 Kerma fission (mt18 or mt19-20-21-38) 31-Ga-71
 Cross Section -100.0 To 49.12 %



MAT 3131

Kerma capture (mt102) 31-Ga-71

Cross Section -99.99 To 9999. %

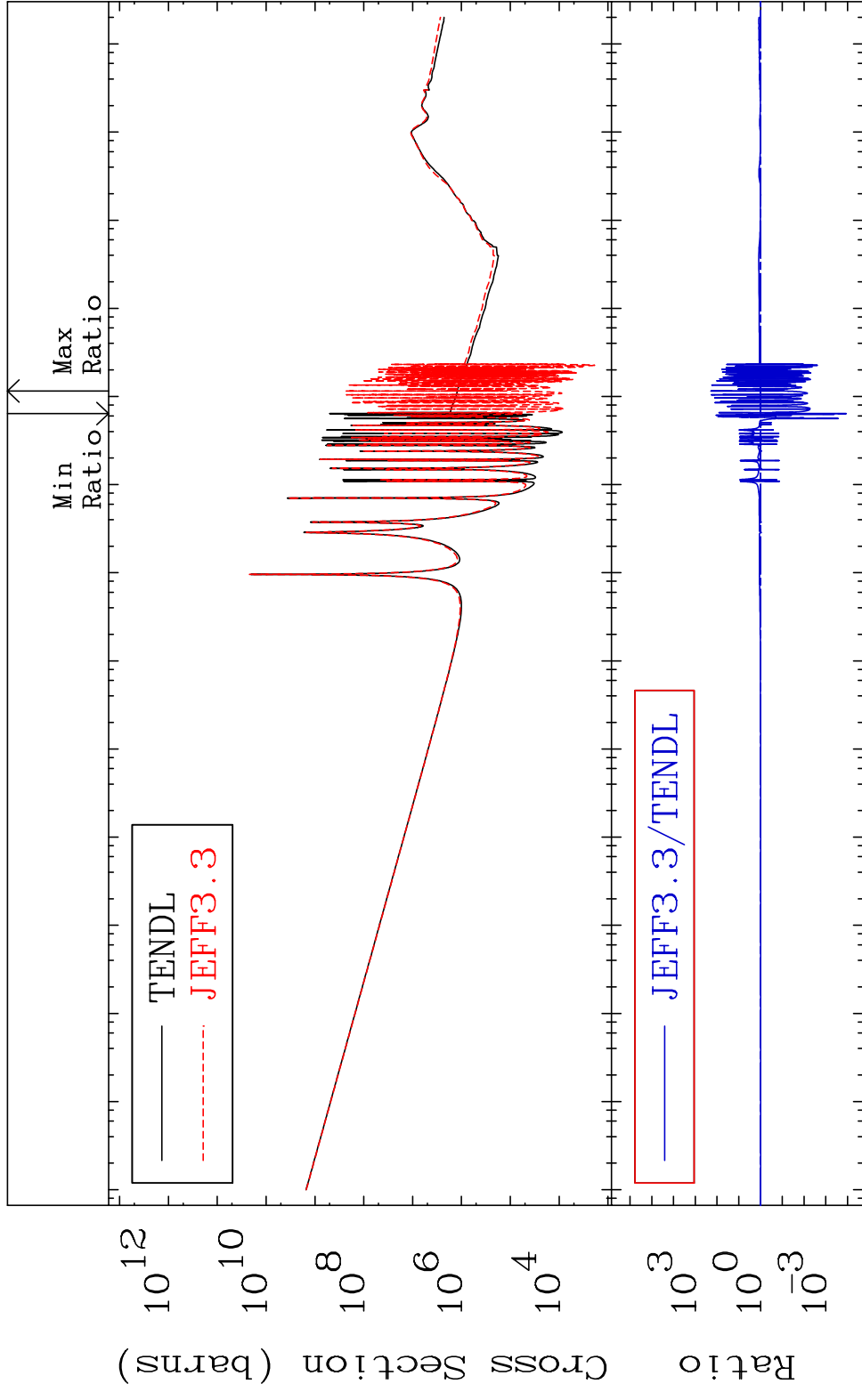


59

Incident Energy (eV)

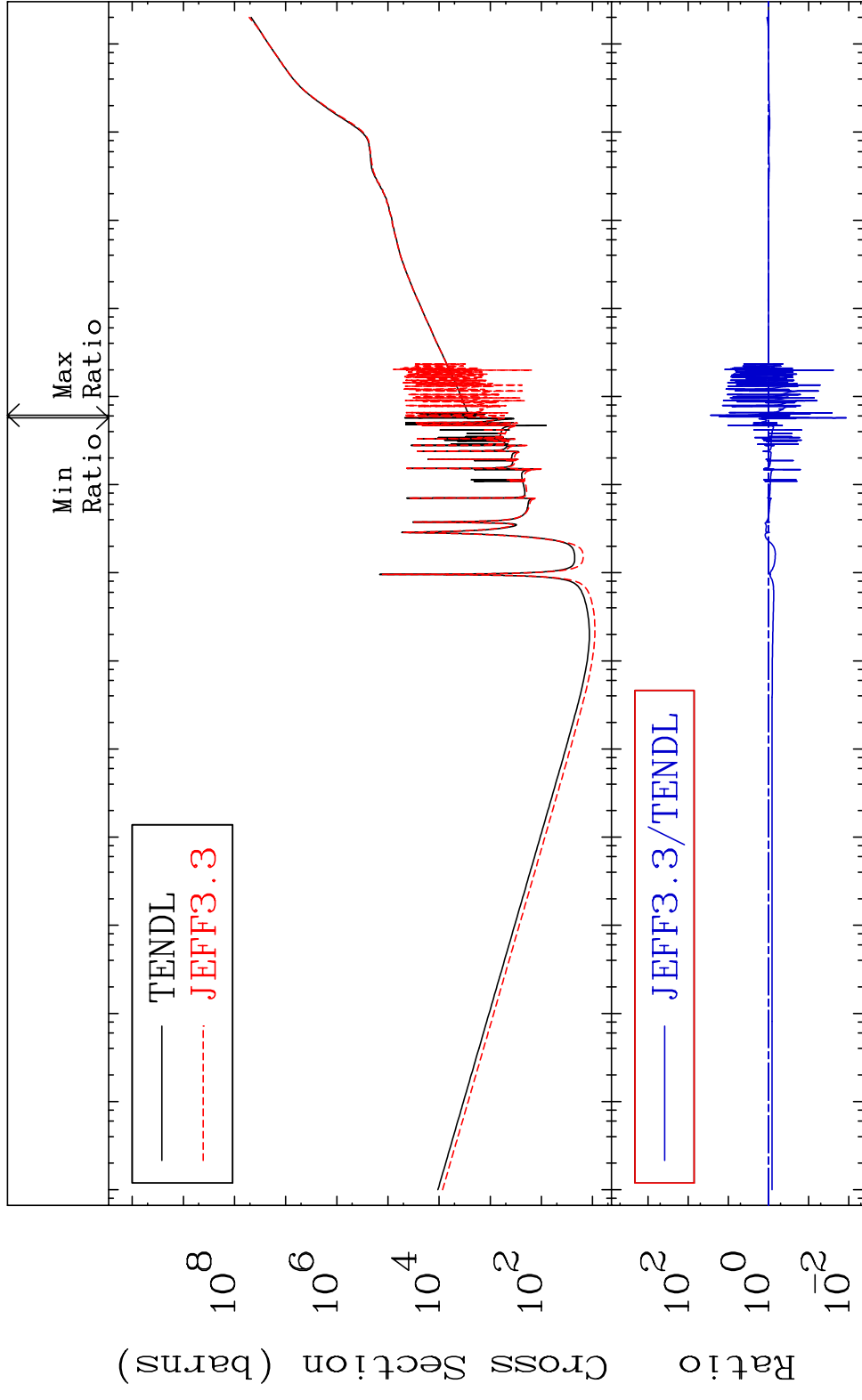
31-Ga-71

MAT 3131 Total photon (eV-barns) 31-Ga-71
 Cross Section -99.99 To 9999. %

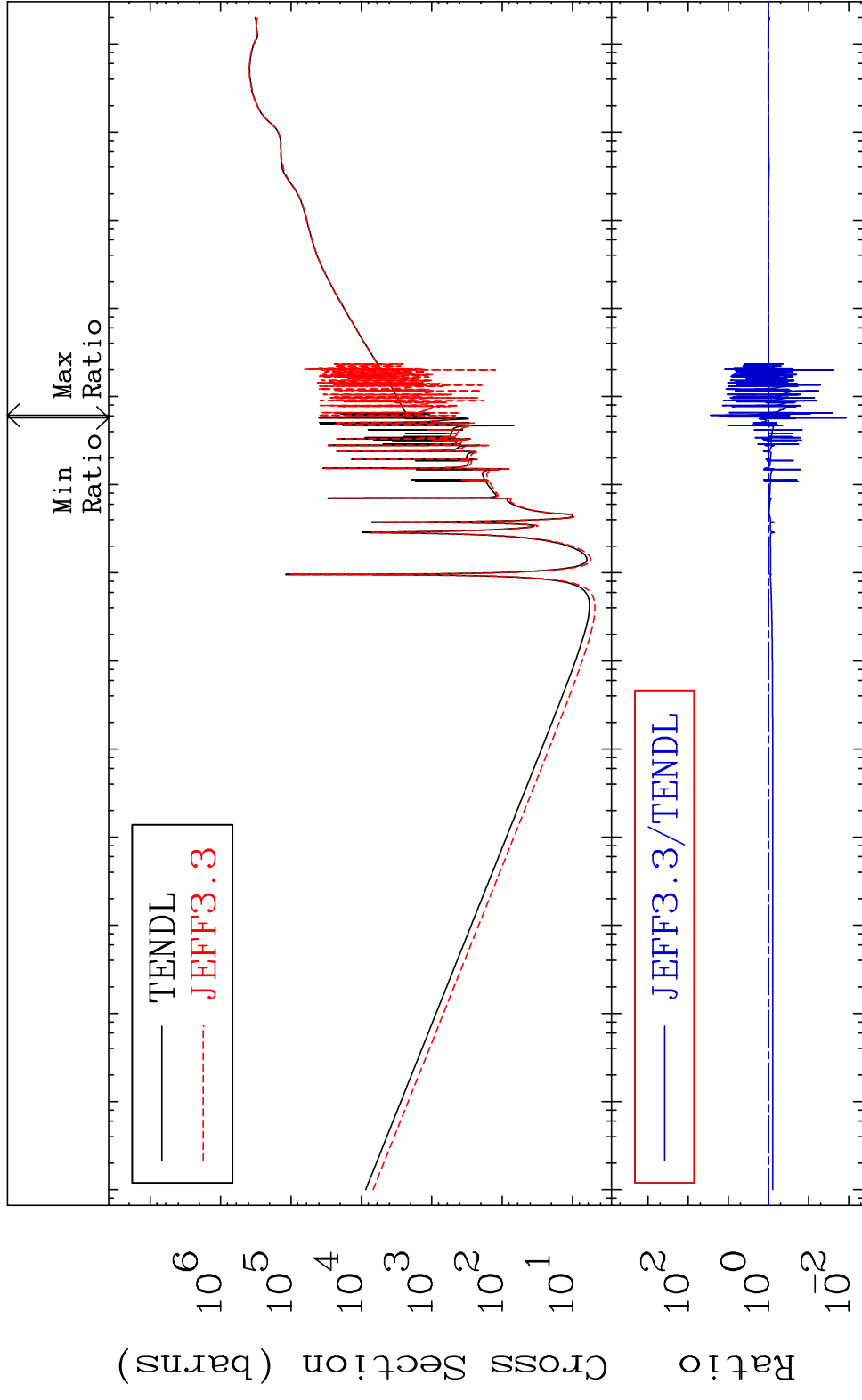


60 Incident Energy (eV) 31-Ga-71

MAT 3131 Total kinematic kerma (high limit) 31-Ga-71
 Cross Section -98.85 To 2654. %



MAT 3131 Dpa total (eV-barns) 31-Ga-71
 Cross Section -98.85 To 2654. %



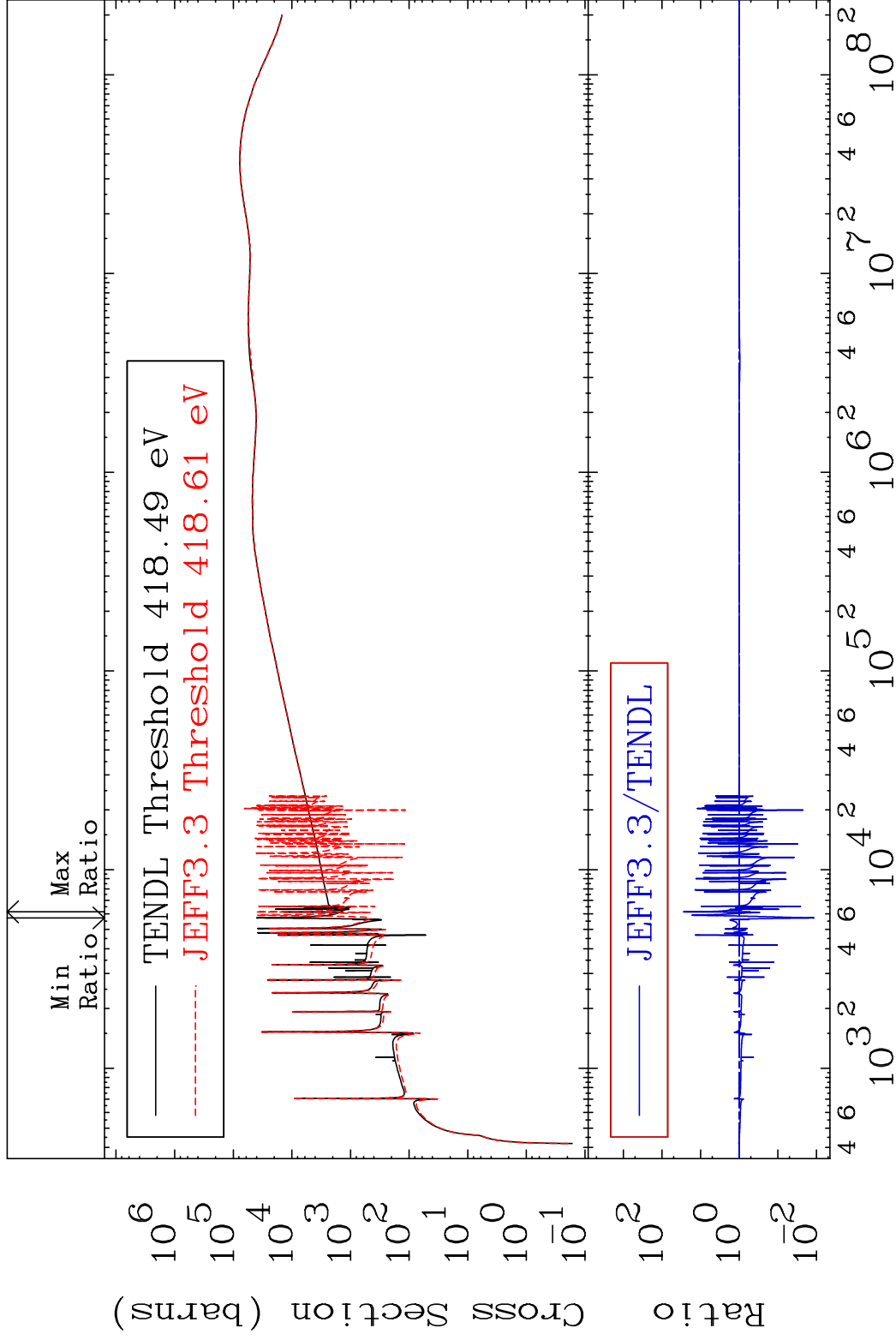
62 Incident Energy (eV) 31-Ga-71

MAT 3131

Dpa elastic (mt2)

31-Ga-71

Cross Section -98.85 To 2649. %

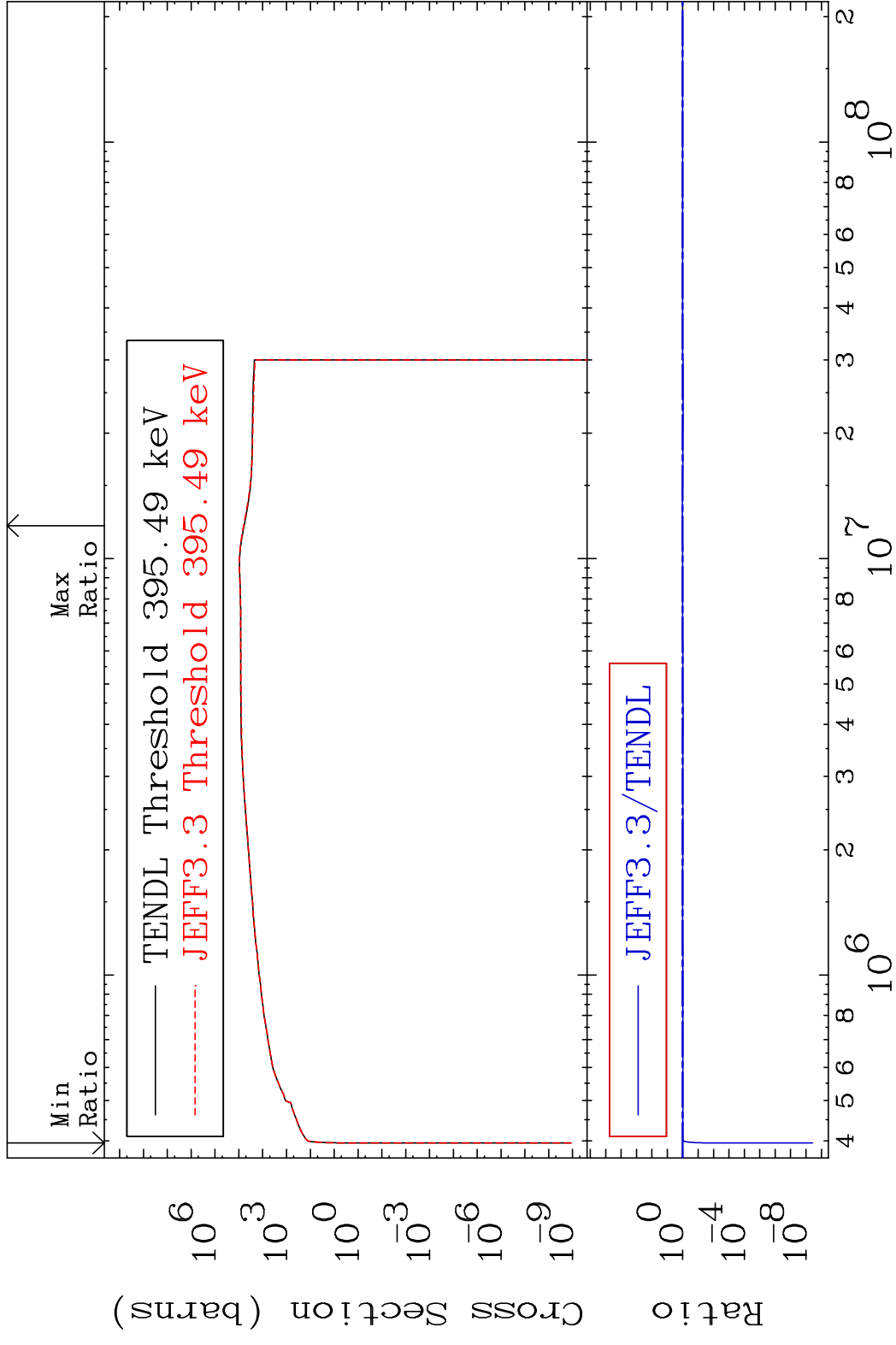


63

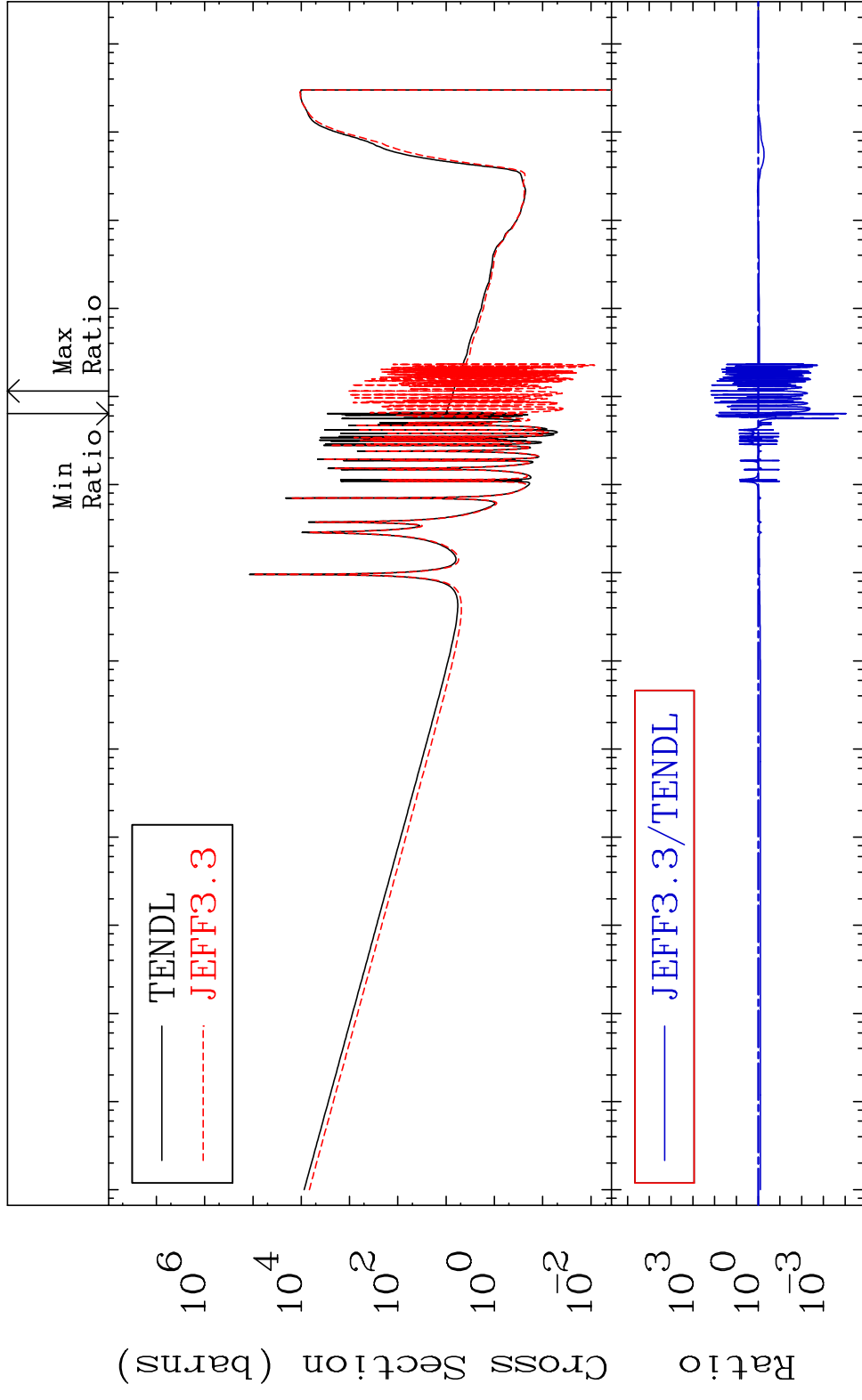
Incident Energy (eV)

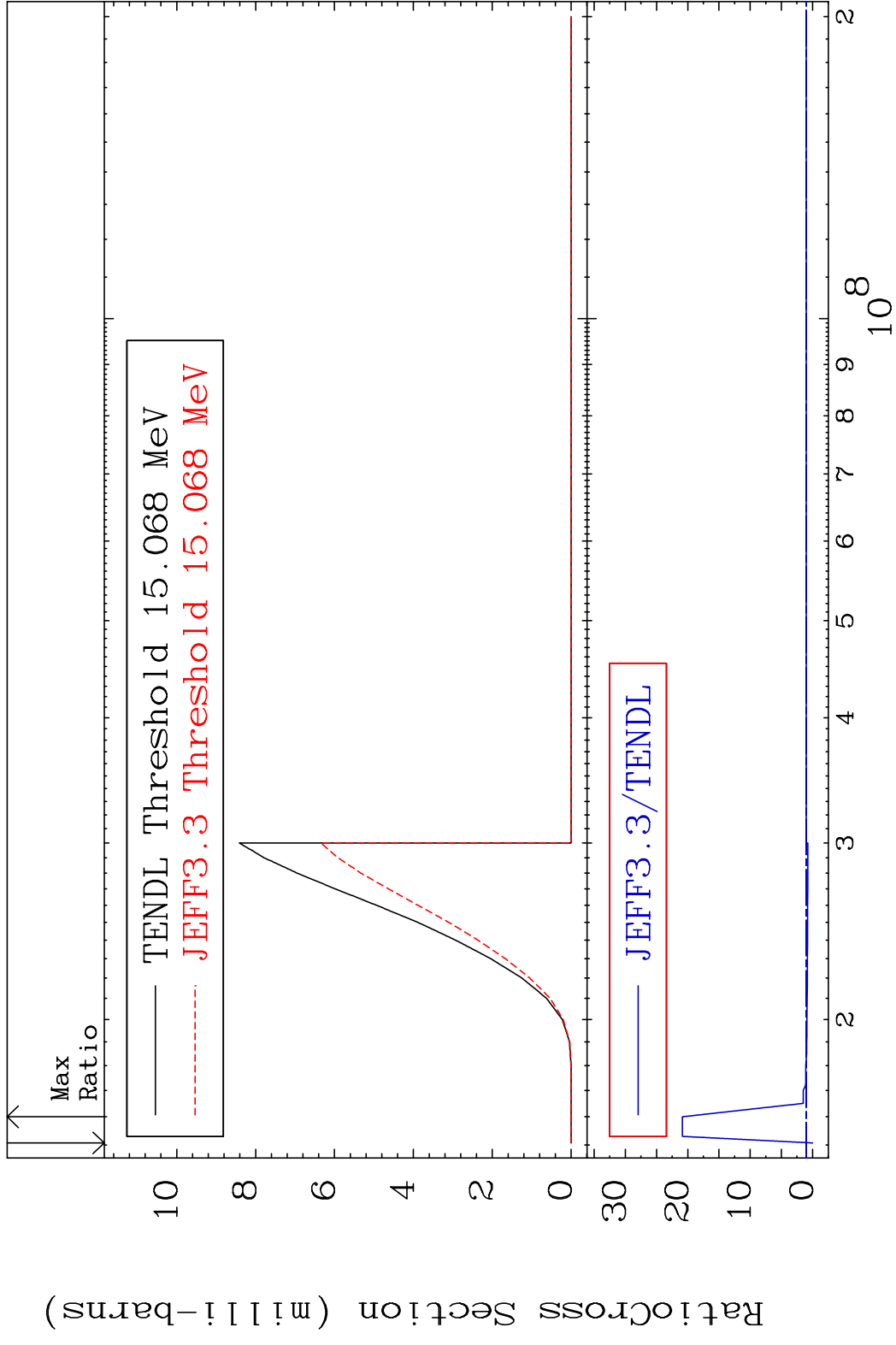
31-Ga-71

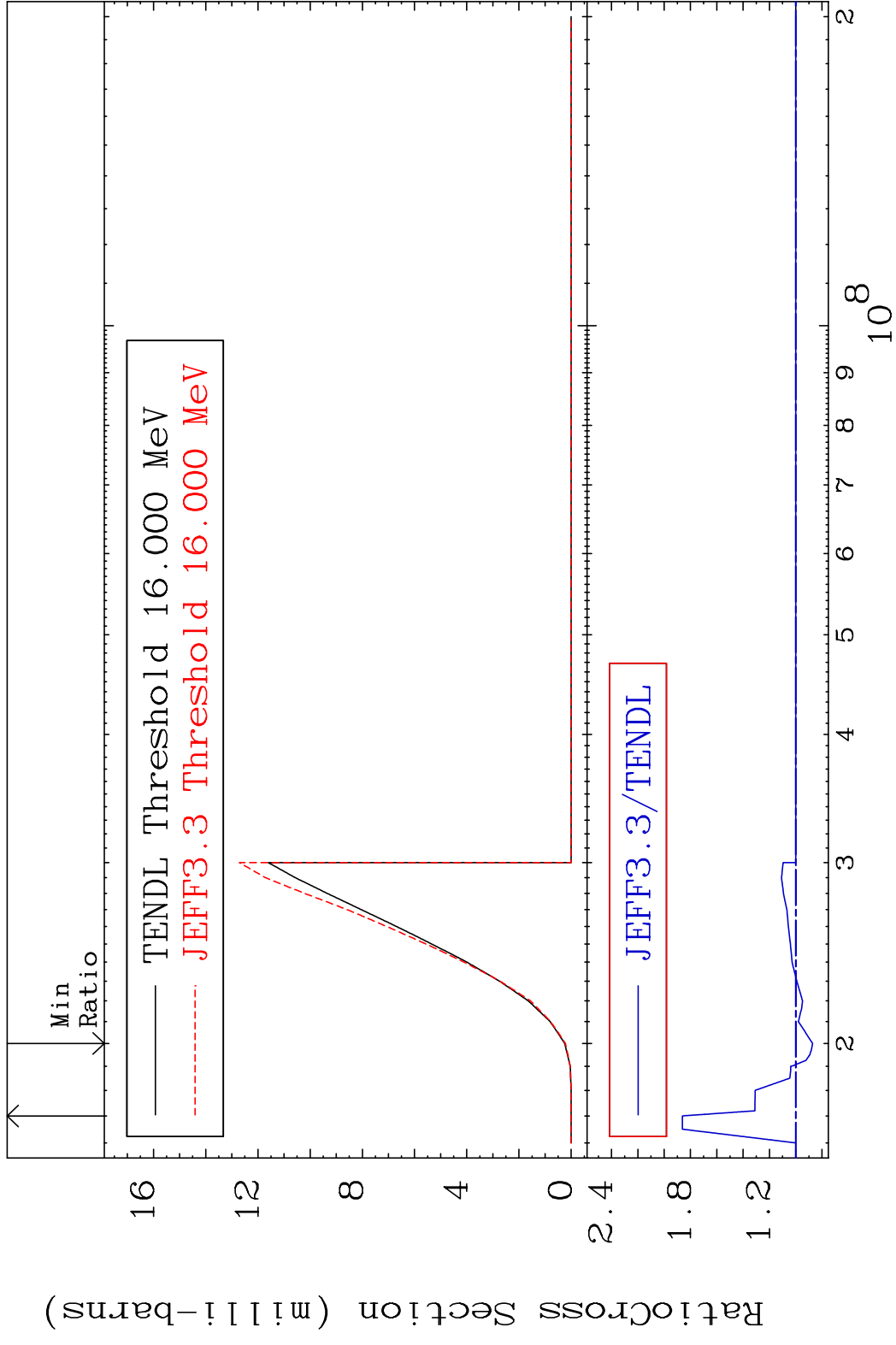
MAT 3131 Dpa inelastic (mt51-91) 31-Ga-71
 Cross Section -100.0 To 5.673 %



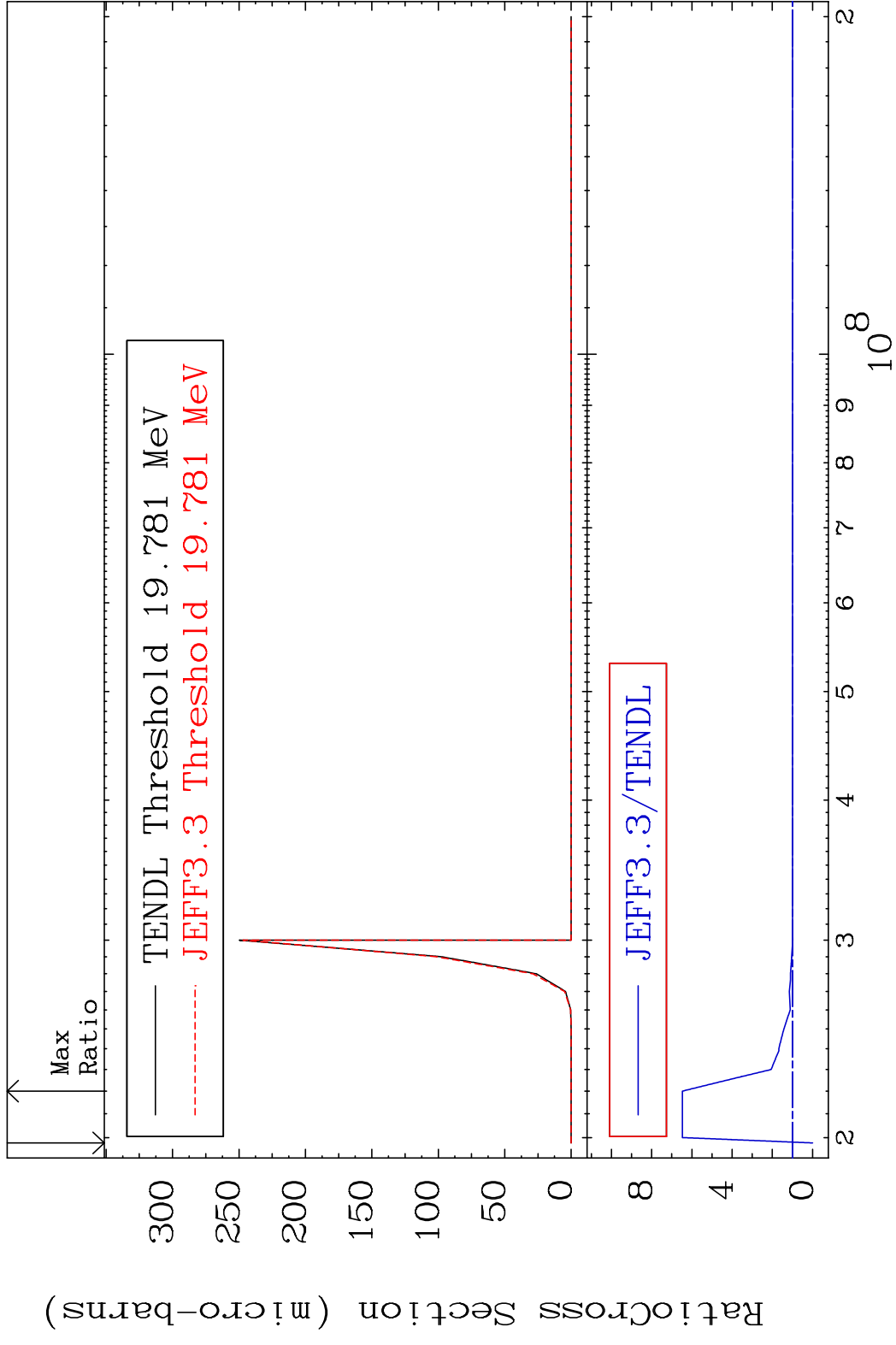
MAT 3131 Dpa disappearance (mt102 -120) 31-Ga-71
 Cross Section -99.99 To 9999. %

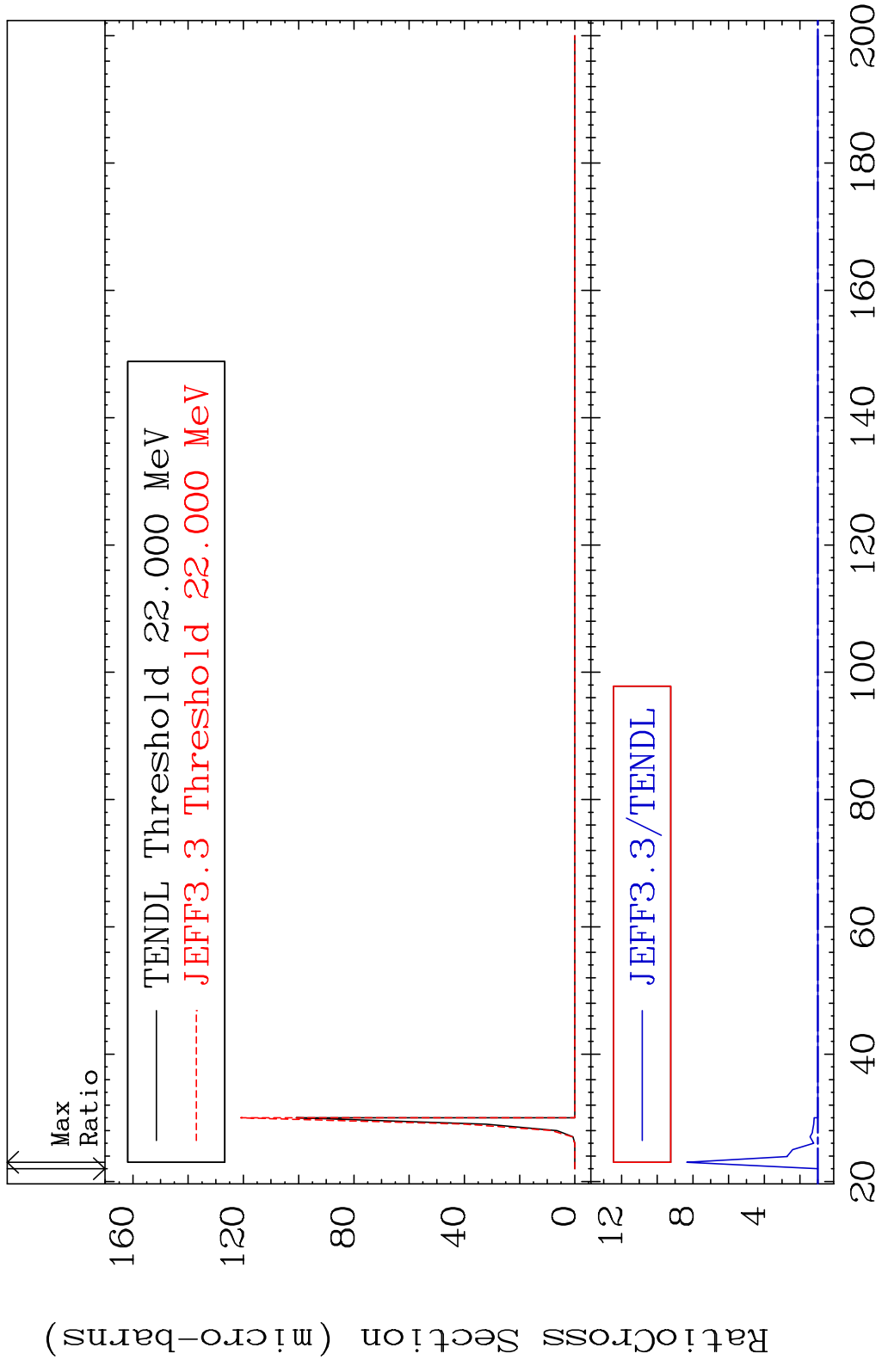




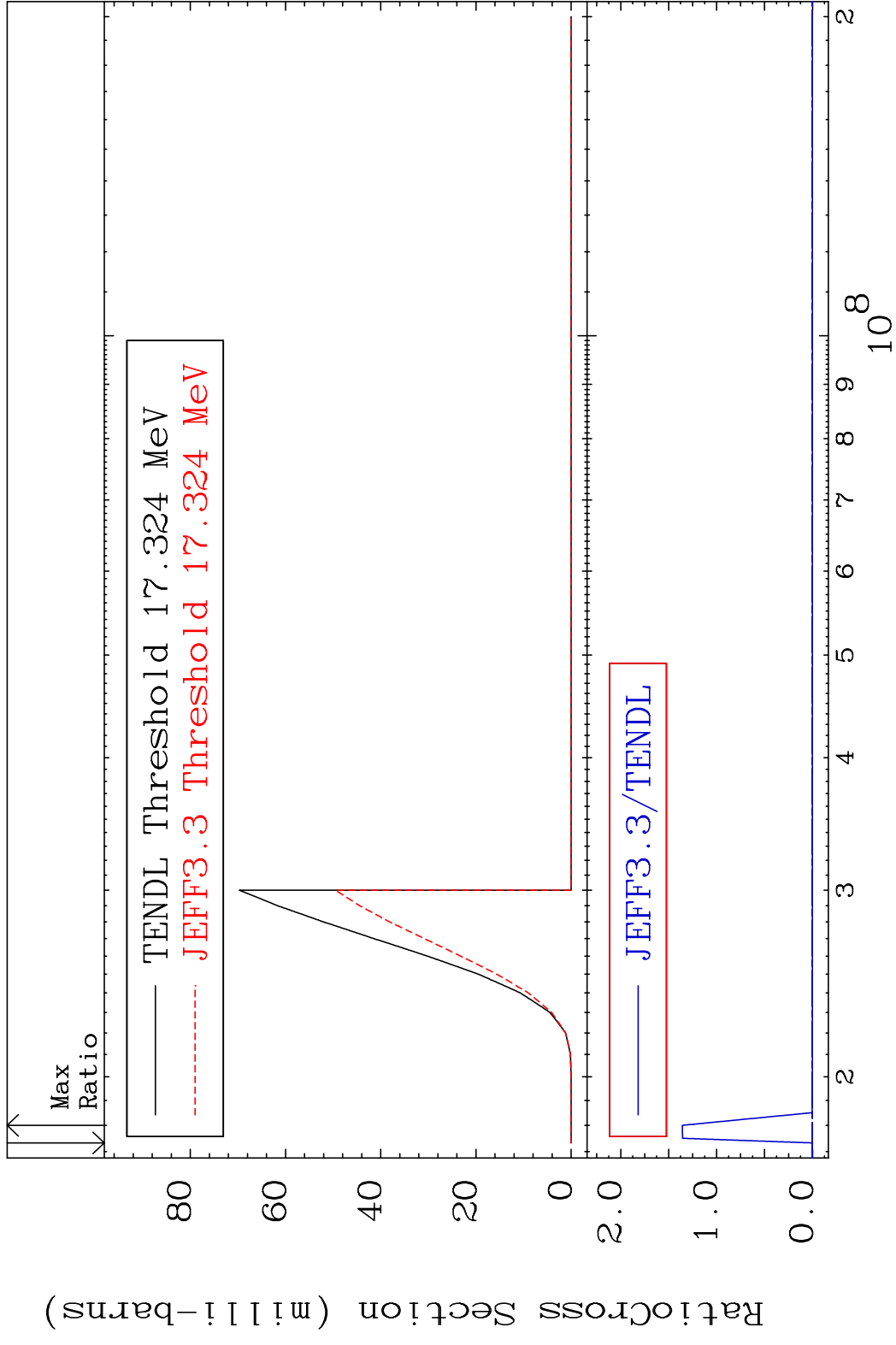


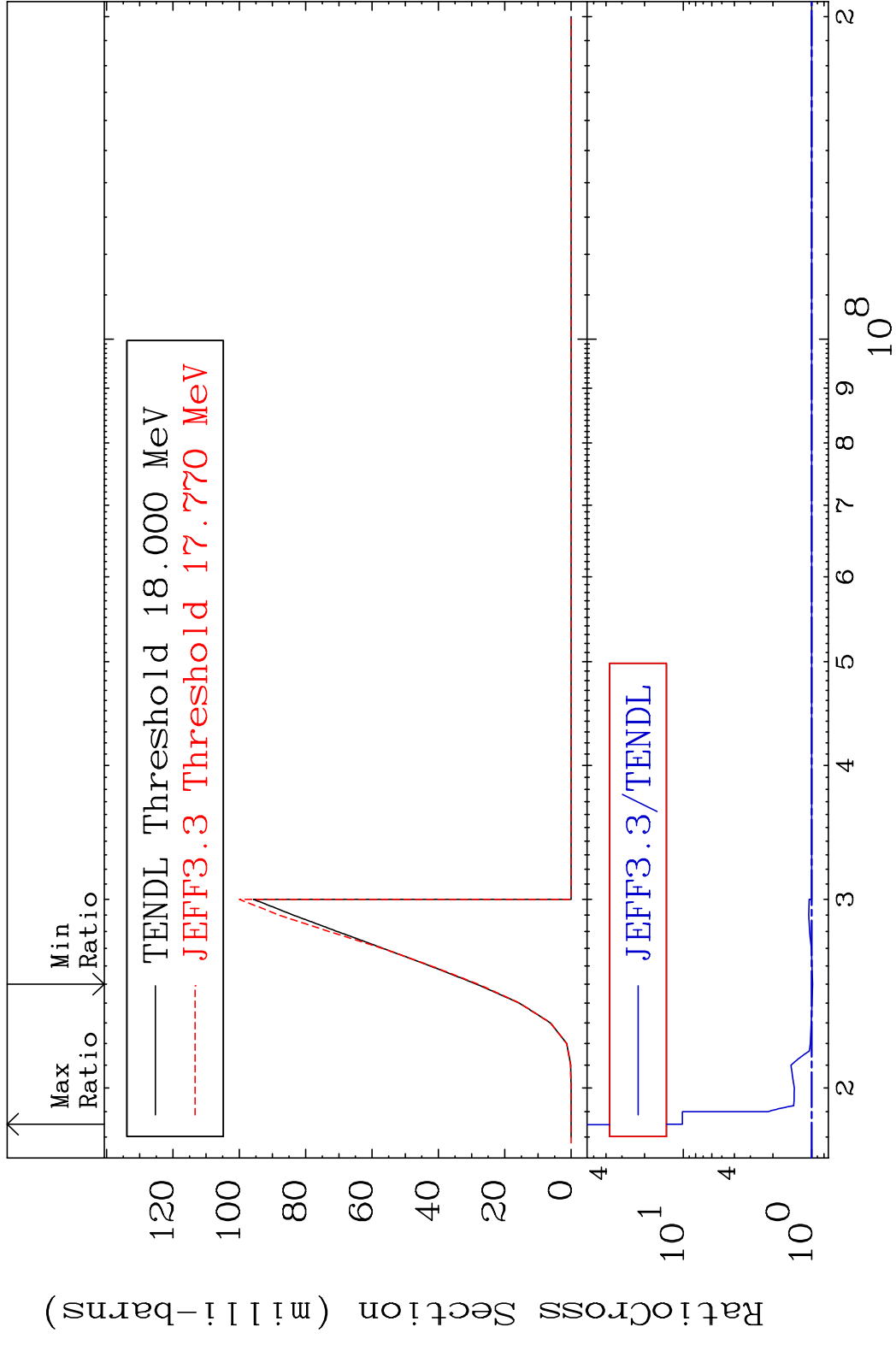
MAT 3131 (n, n') He-3:29-Cu-68g 31-Ga-71
 Radionuclide Production Cross Section 180.0 dth 547.3 %



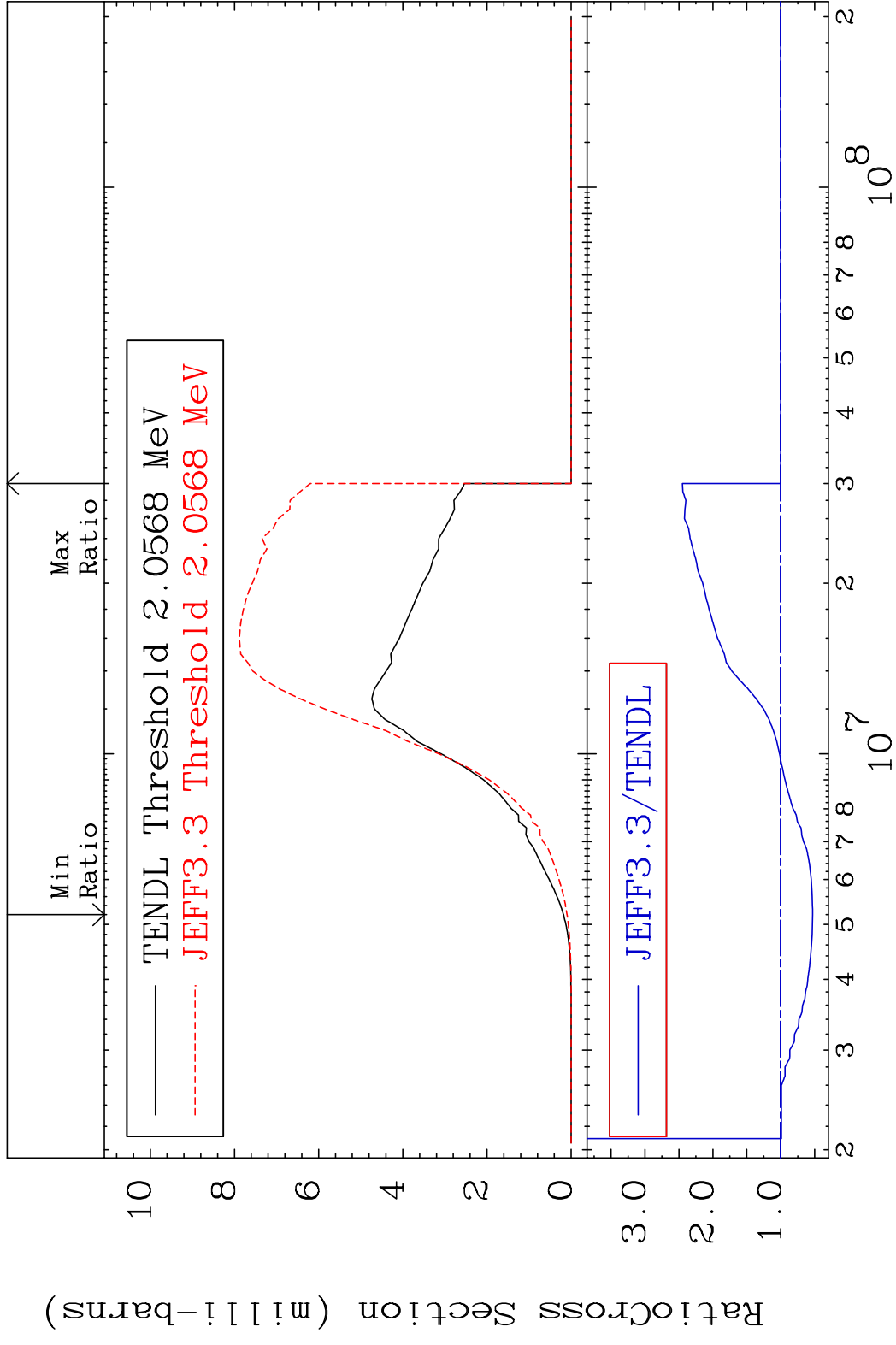


MAT 3131 (n,2n) p:30-Zn-69g 31-Ga-71
 Radionuclide Production Cross Section 1800 d to 9999. %



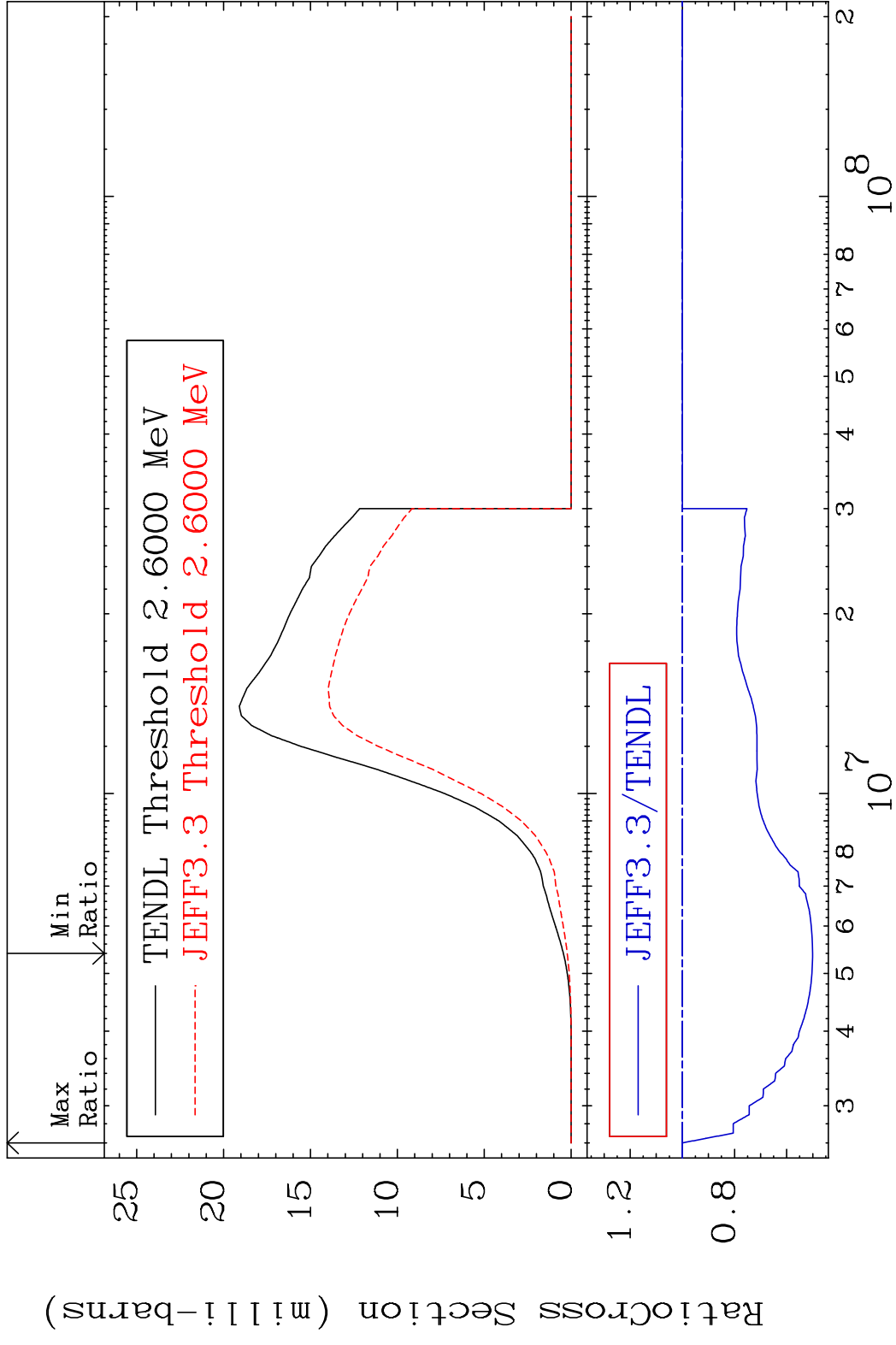


MAT 3131 (n, p):30-Zn-71g 31-Ga-71
 Radionuclide Production Cross Section 144.9 %

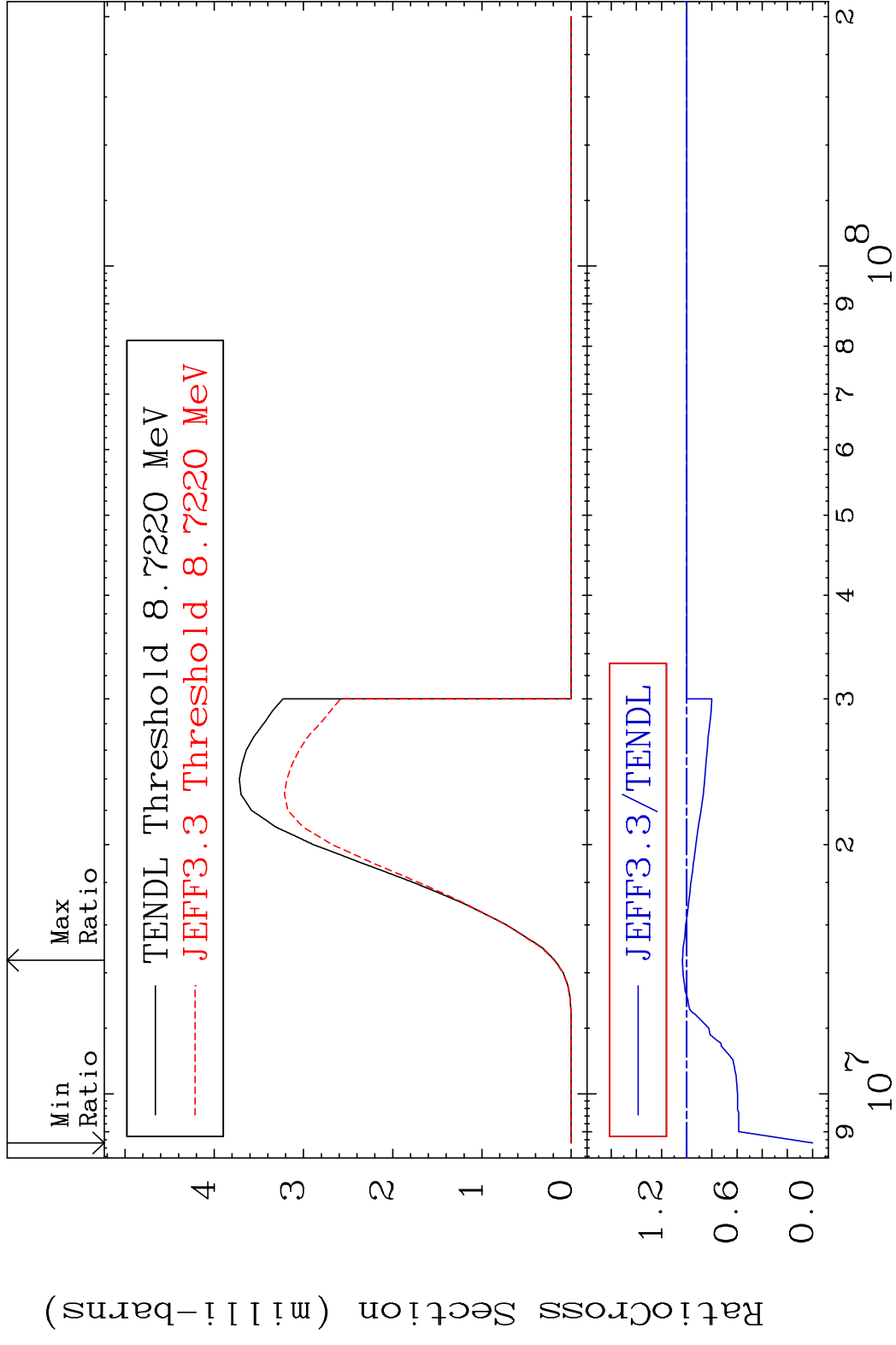


72 Incident Energy (eV) 31-Ga-71

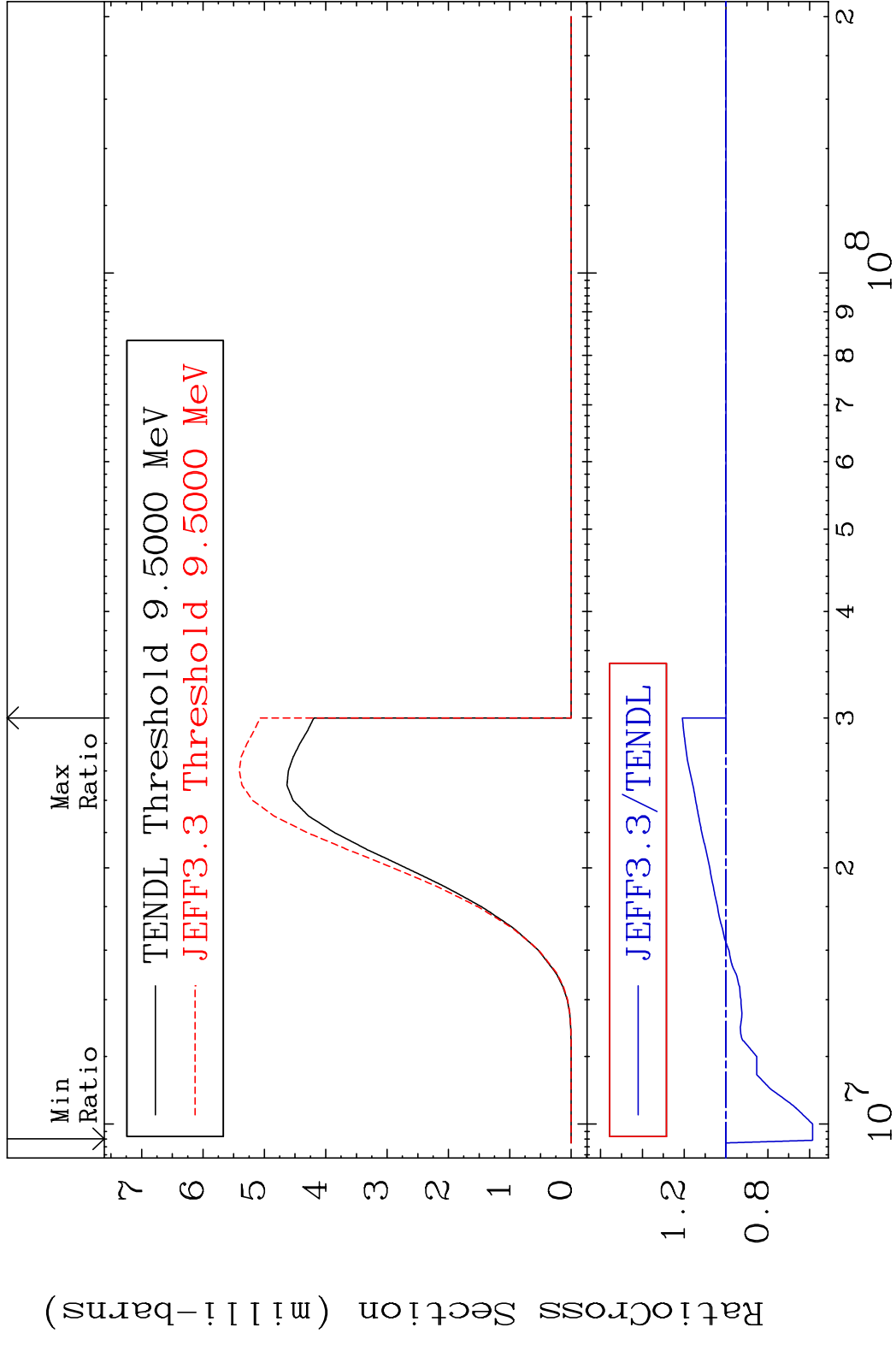
MAT 3131 (n,p):30-Zn-71m1 31-Ga-71
 Radionuclide Production Cross Section 0.000 %



MAT 3131 (n, t):30-Zn-69g 31-Ga-71
 Radionuclide Production Cross Section Ratio 3.456 %

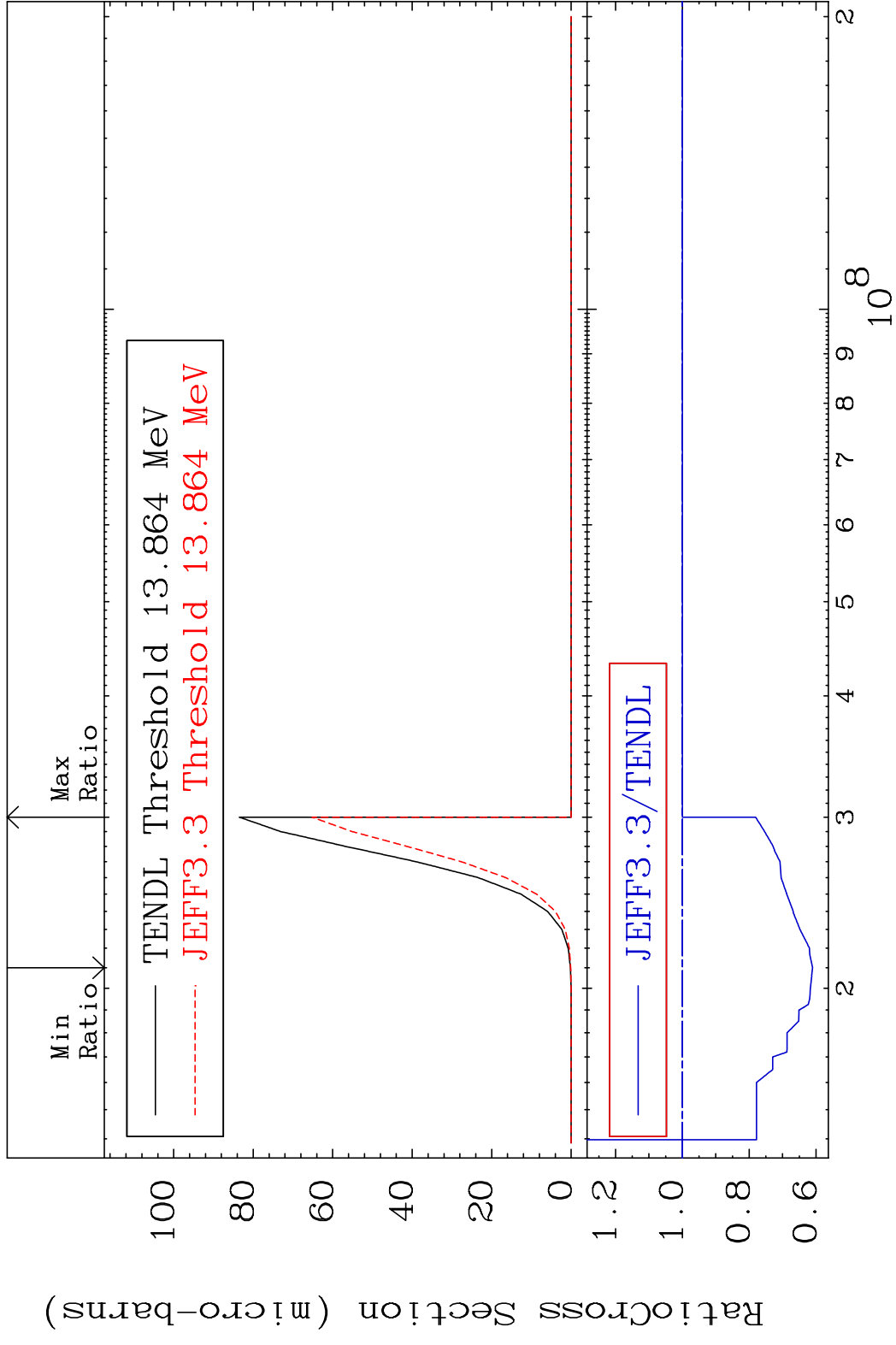


MAT 3131 (n, t):30-Zn-69m1 31-Ga-71
 Radionuclide Production Cross Section 20.87 %

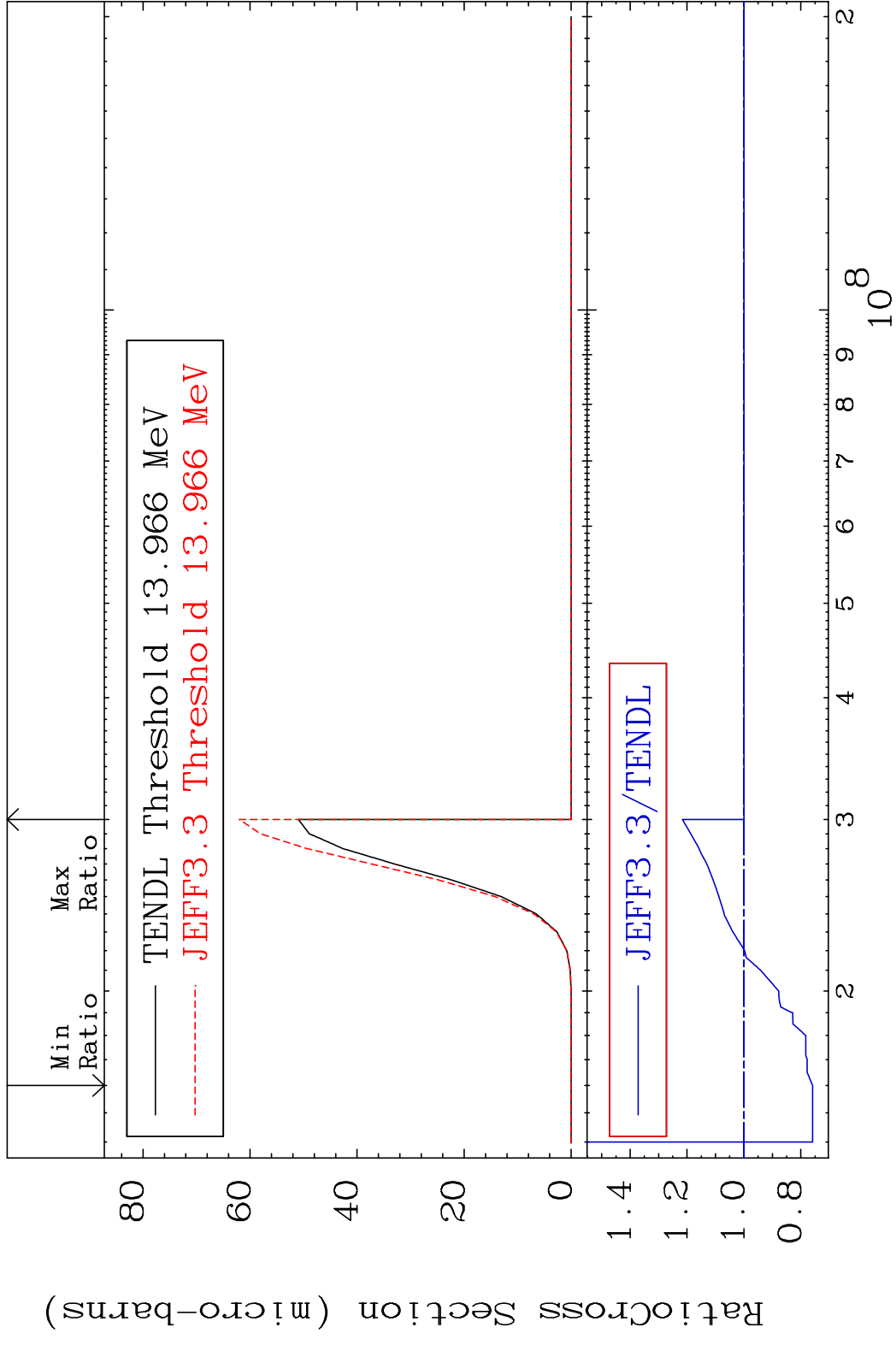


75 Incident Energy (eV) 31-Ga-71

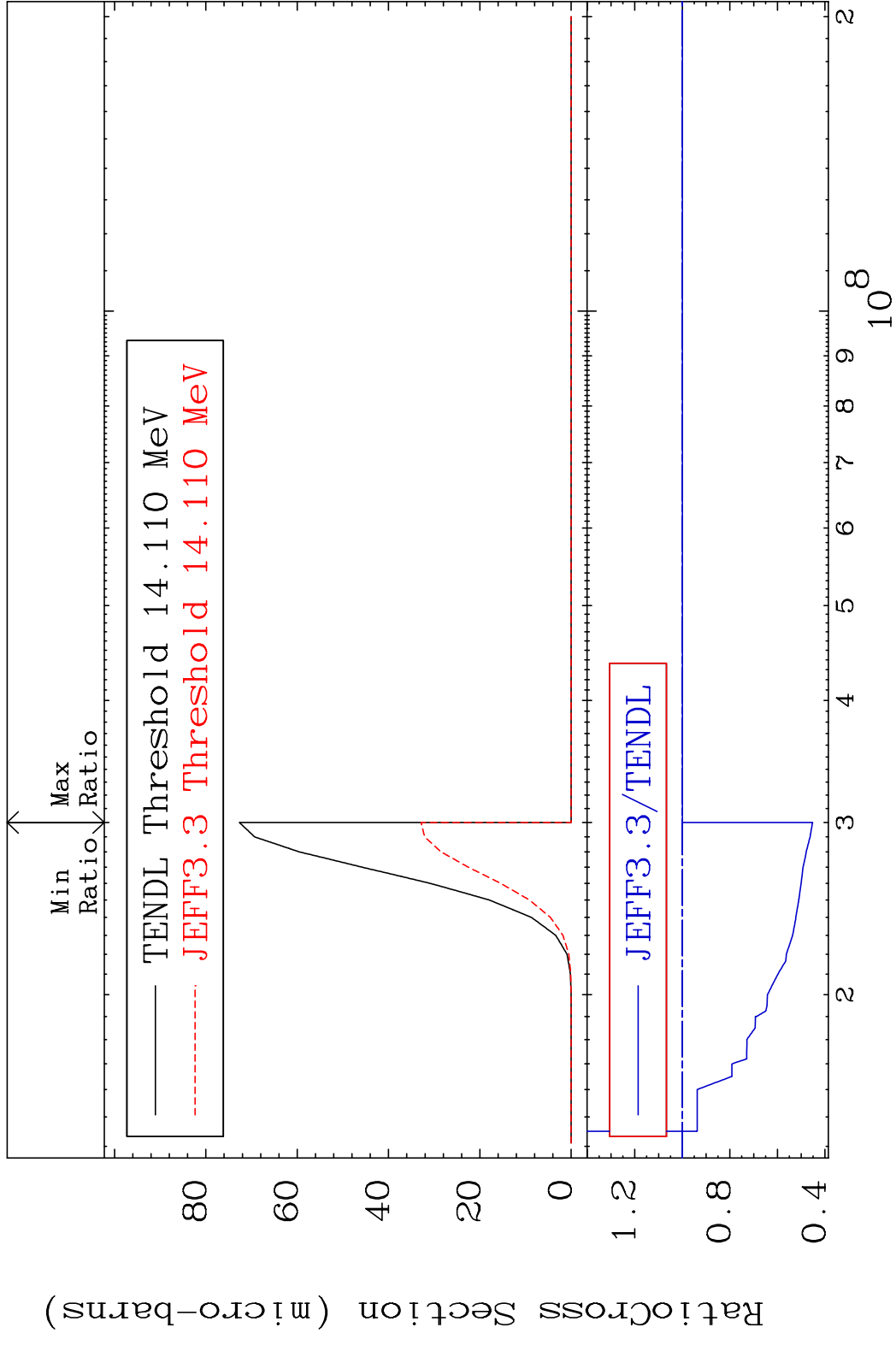
MAT 3131 (n,2p) :29-Cu-70g 31-Ga-71
 Radionuclide Production Cross Section 0.000 %



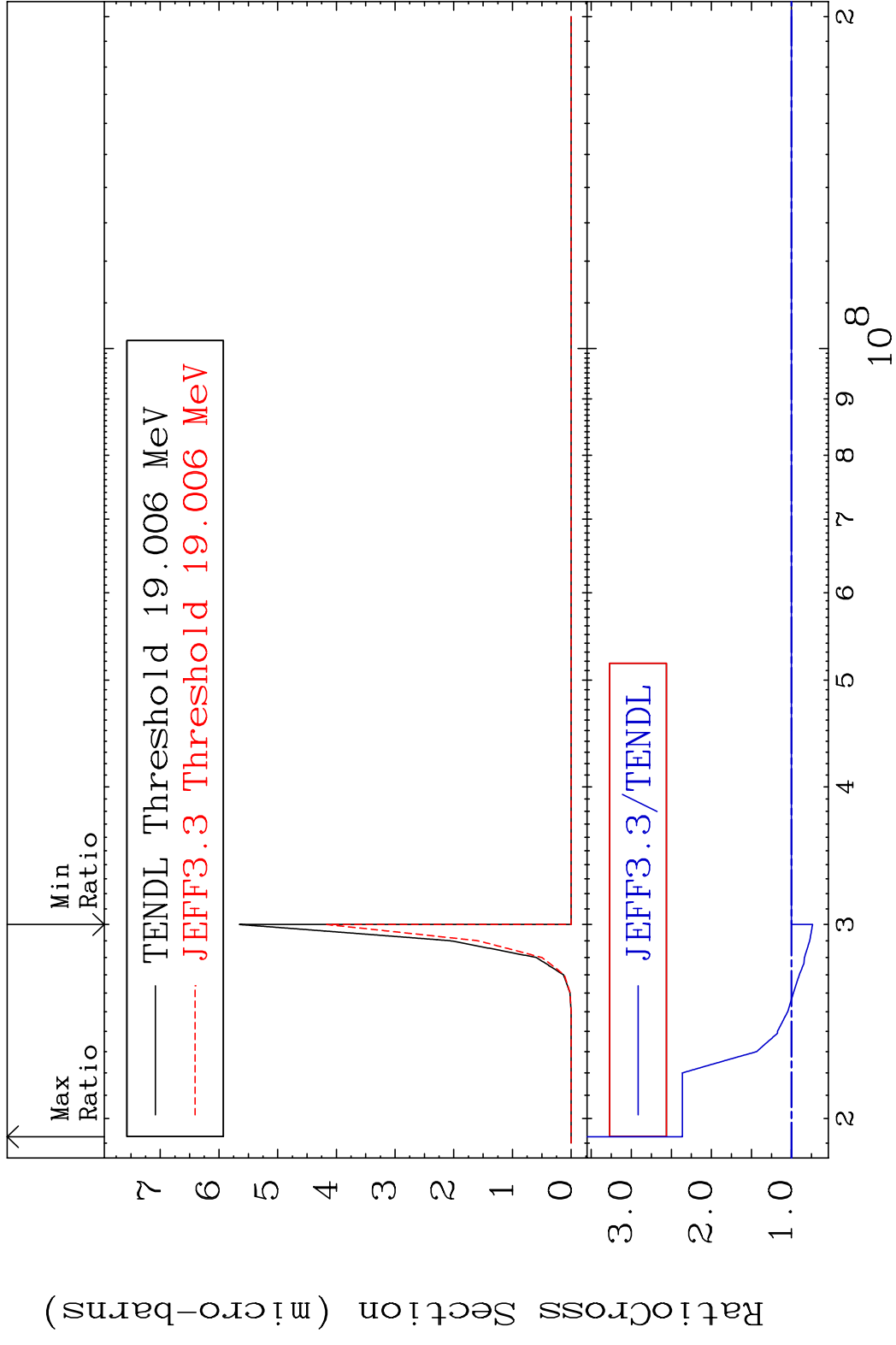
MAT 3131 (n,2p):29-Cu-70m1 31-Ga-71
 Radionuclide Production Cross Section 21.65 %



MAT 3131 (n,2p):29-Cu-70m3 31-Ga-71
 Radionuclide Production Cross Section 0.000 %



MAT 3131 (n, p) t:29-Cu-68g 31-Ga-71
 Radionuclide Production Cross Section 136.3 %



MAT 3131 (n,p) t:29-Cu-68m3 31-Ga-71
 Radionuclide Production Cross Section 180.0 dno 460.2 %

