

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

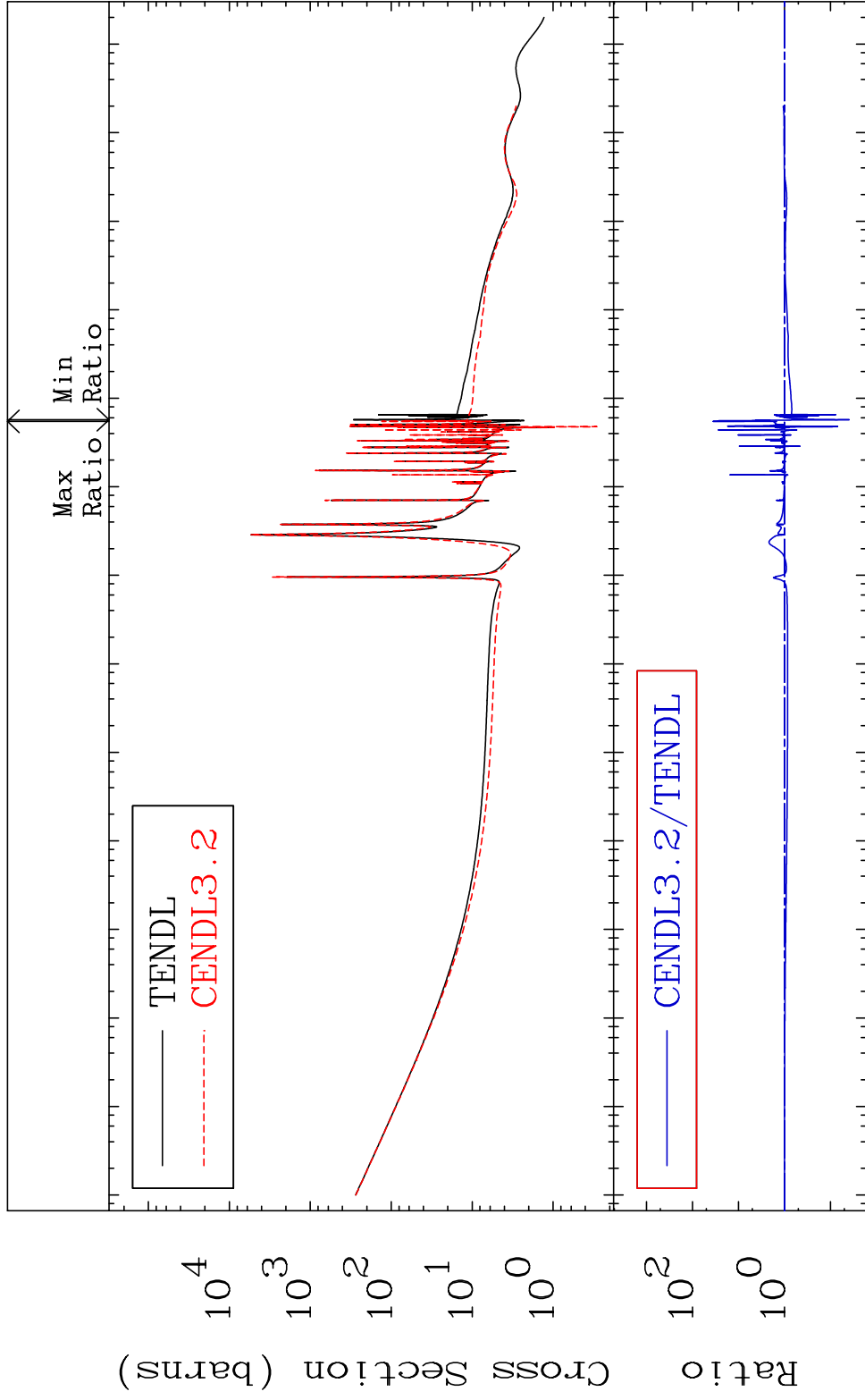
Press Mouse Button to Start

MAT 3131

Total

31-Ga-71

Cross Section -96.09 To 3441. %



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

1

Incident Energy (eV)

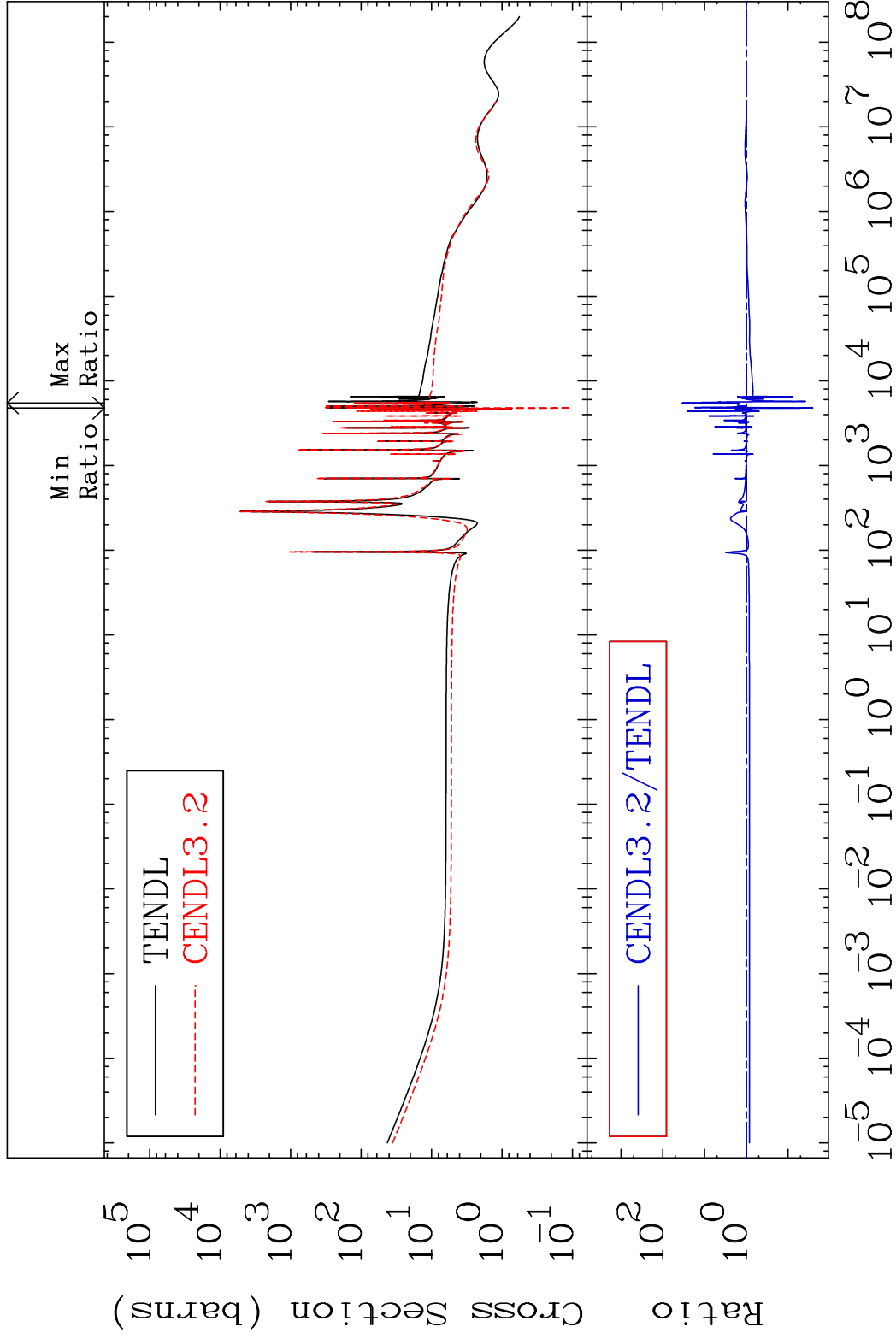
31-Ga-71

MAT 3131

Elastic

31-Ga-71

Cross Section -97.42 To 3288. %

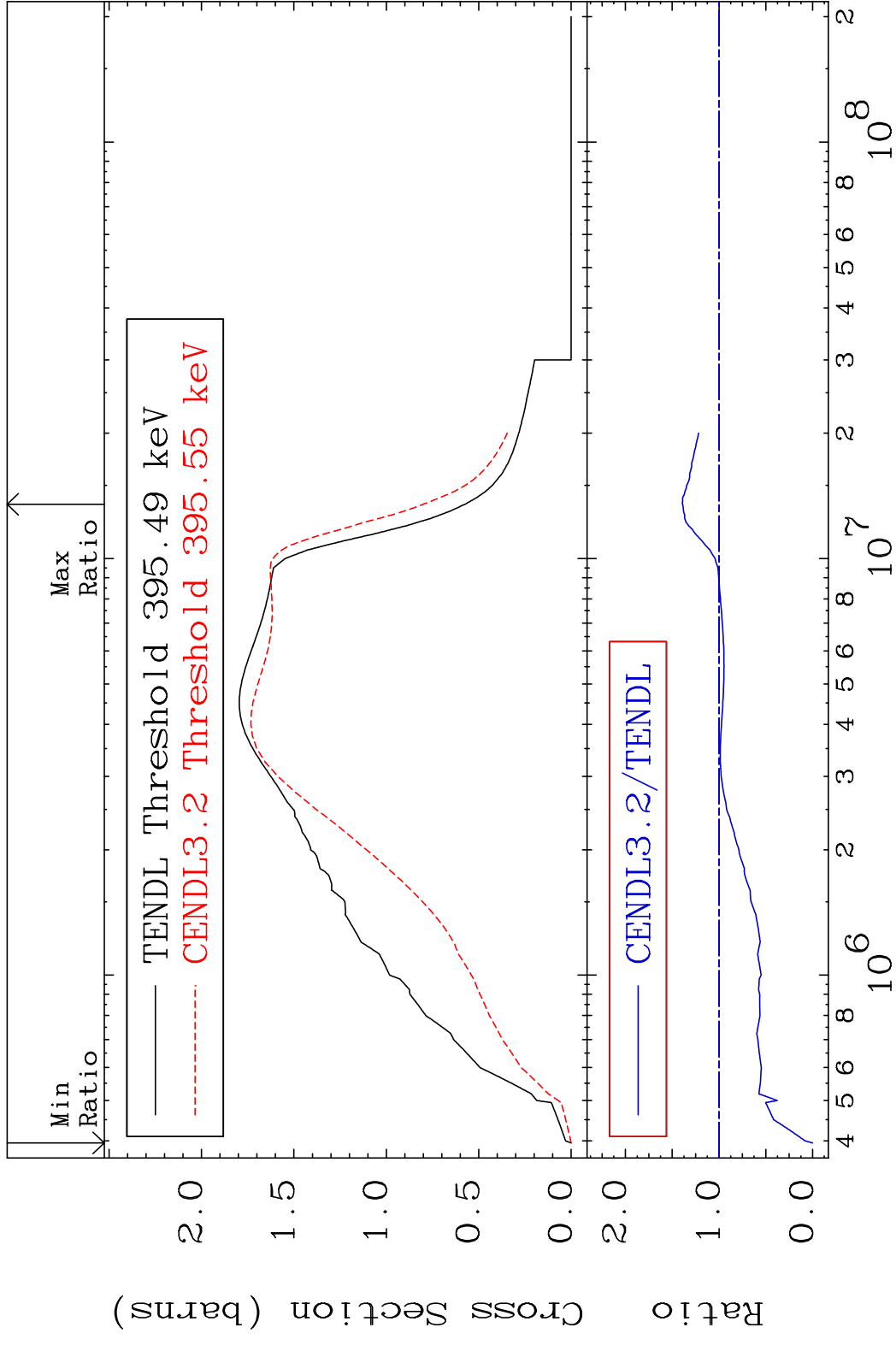


2

Incident Energy (eV)

31-Ga-71

MAT 3131 Inelastic Cross Section -100.0 To 39.18 % 31-Ga-71



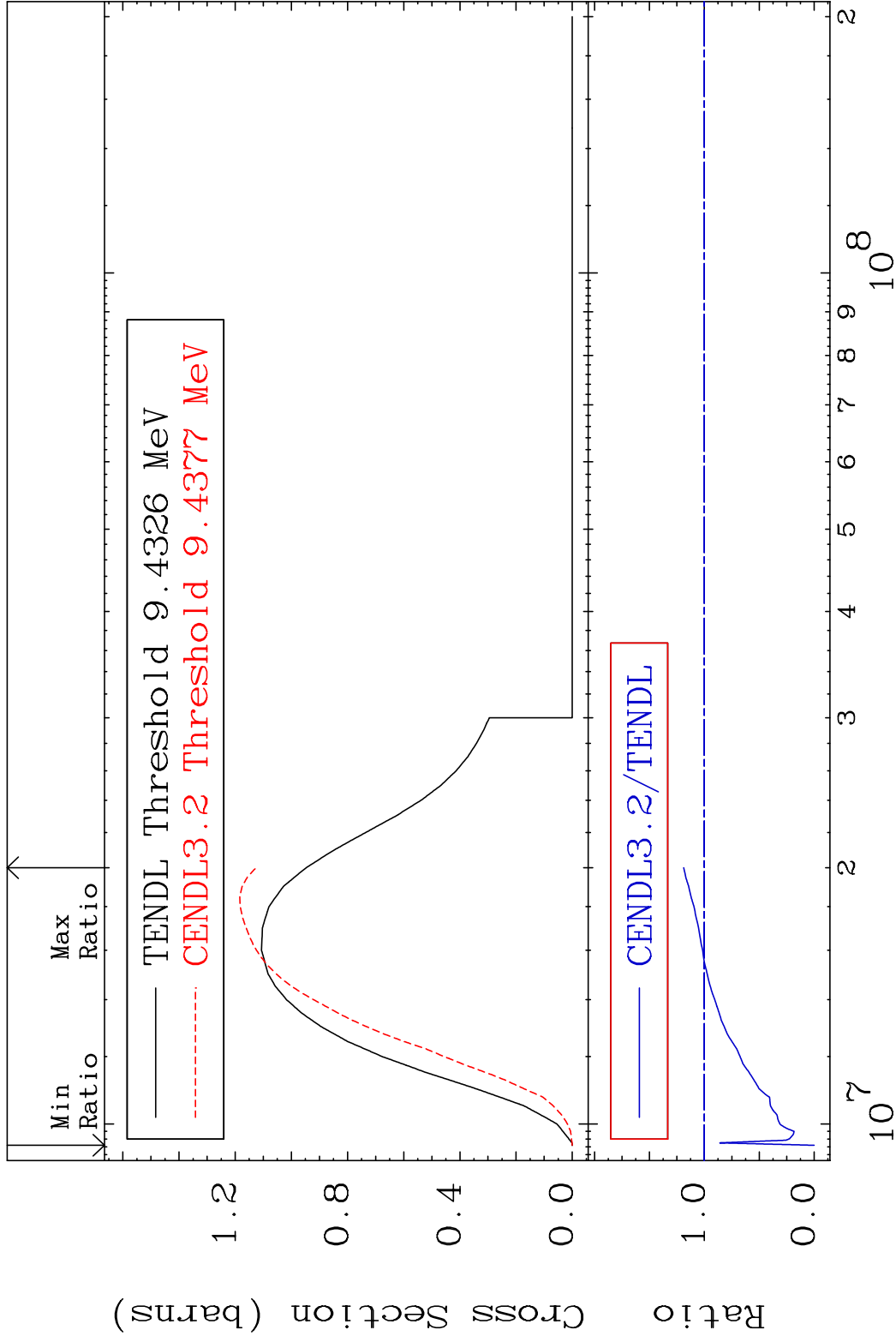
3 31-Ga-71

MAT 3131

(n,2n)

31-Ga-71

Cross Section -100.0 To 18.86 %



4

Incident Energy (eV)

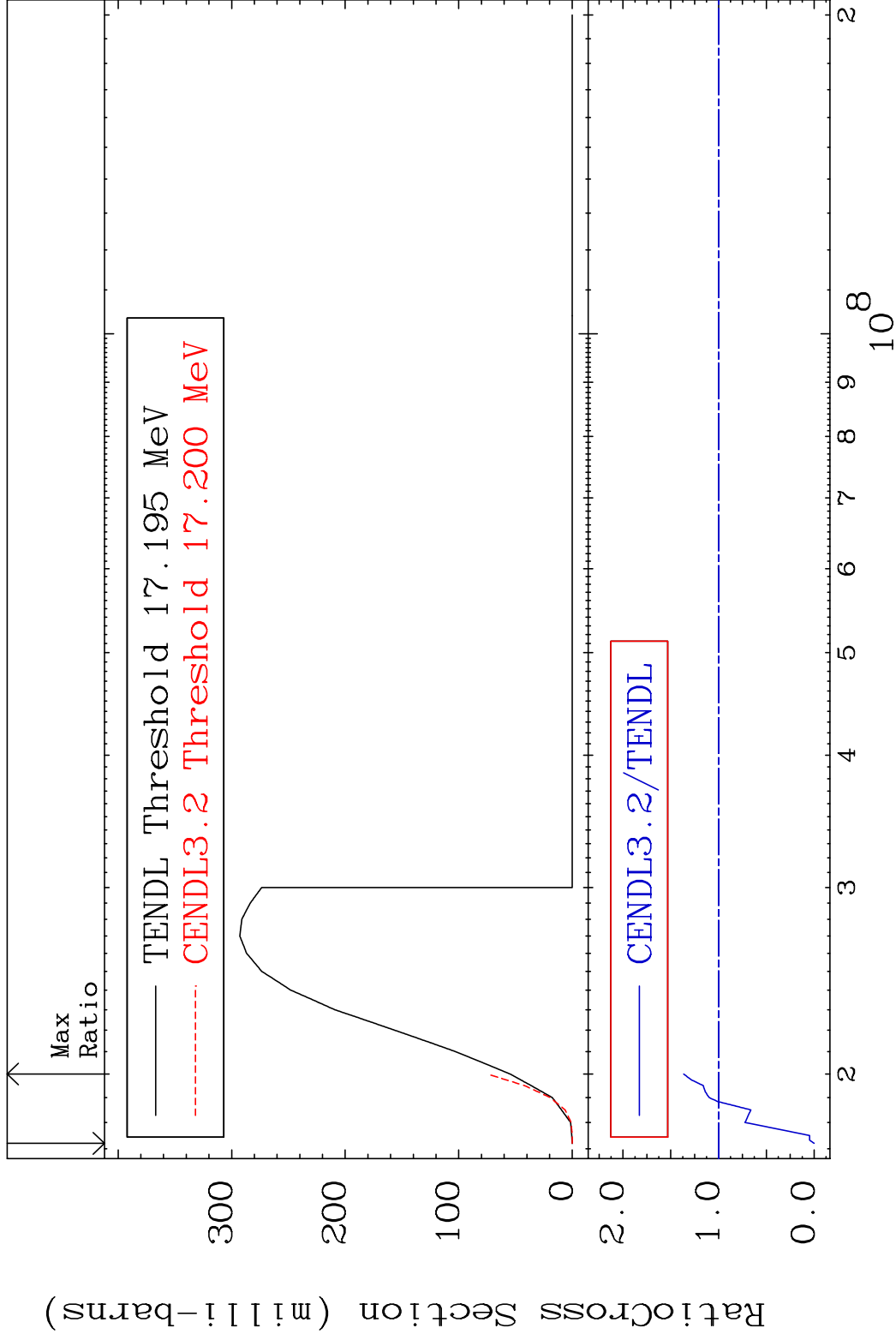
31-Ga-71

MAT 3131

(n,3n)

31-Ga-71

Cross Section -100.0 To 36.52 %



5

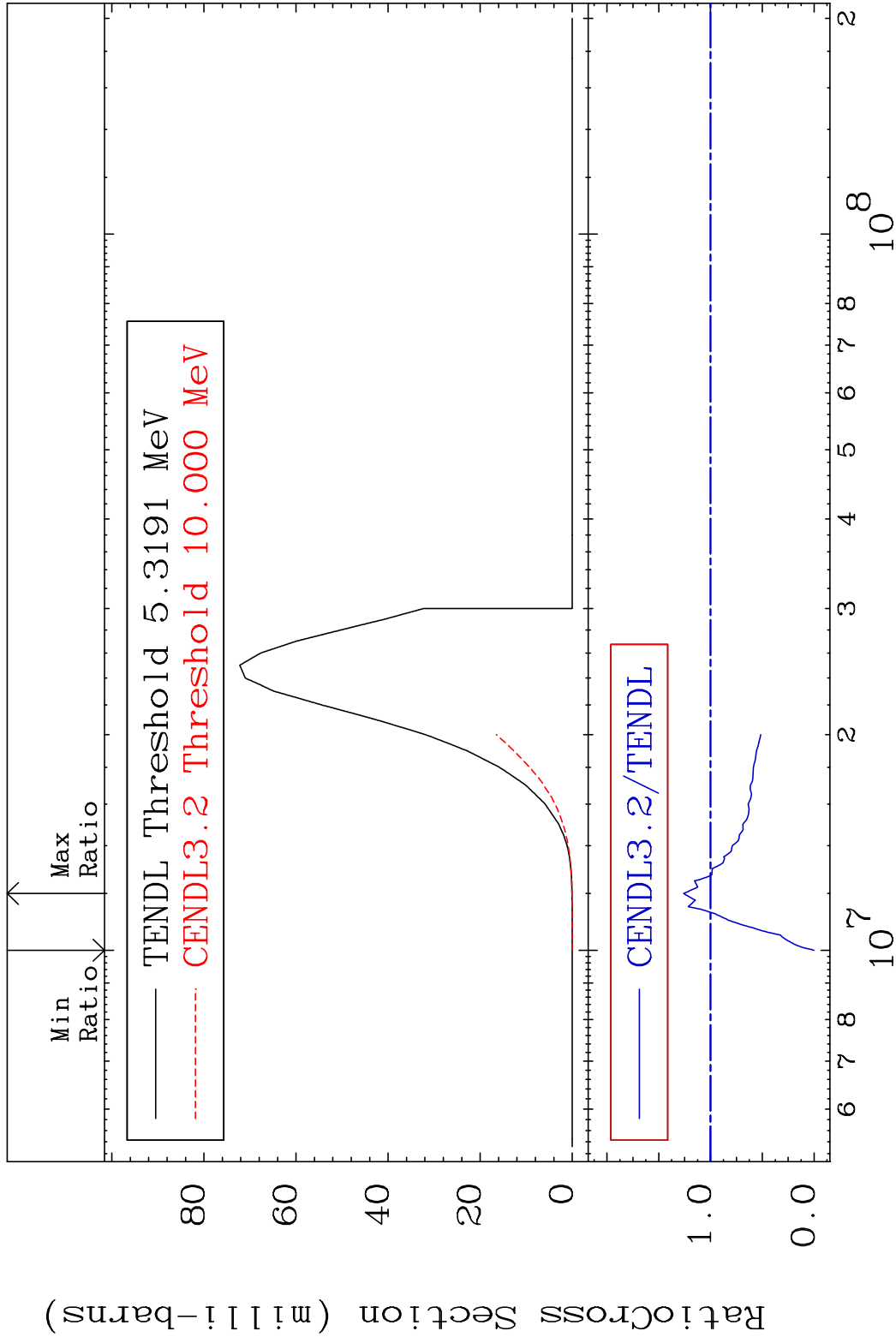
Incident Energy (eV)

31-Ga-71

MAT 3131

(n, n') α 31-Ga-71

Cross Section -100.0 To 25.95 %



6

Incident Energy (eV)

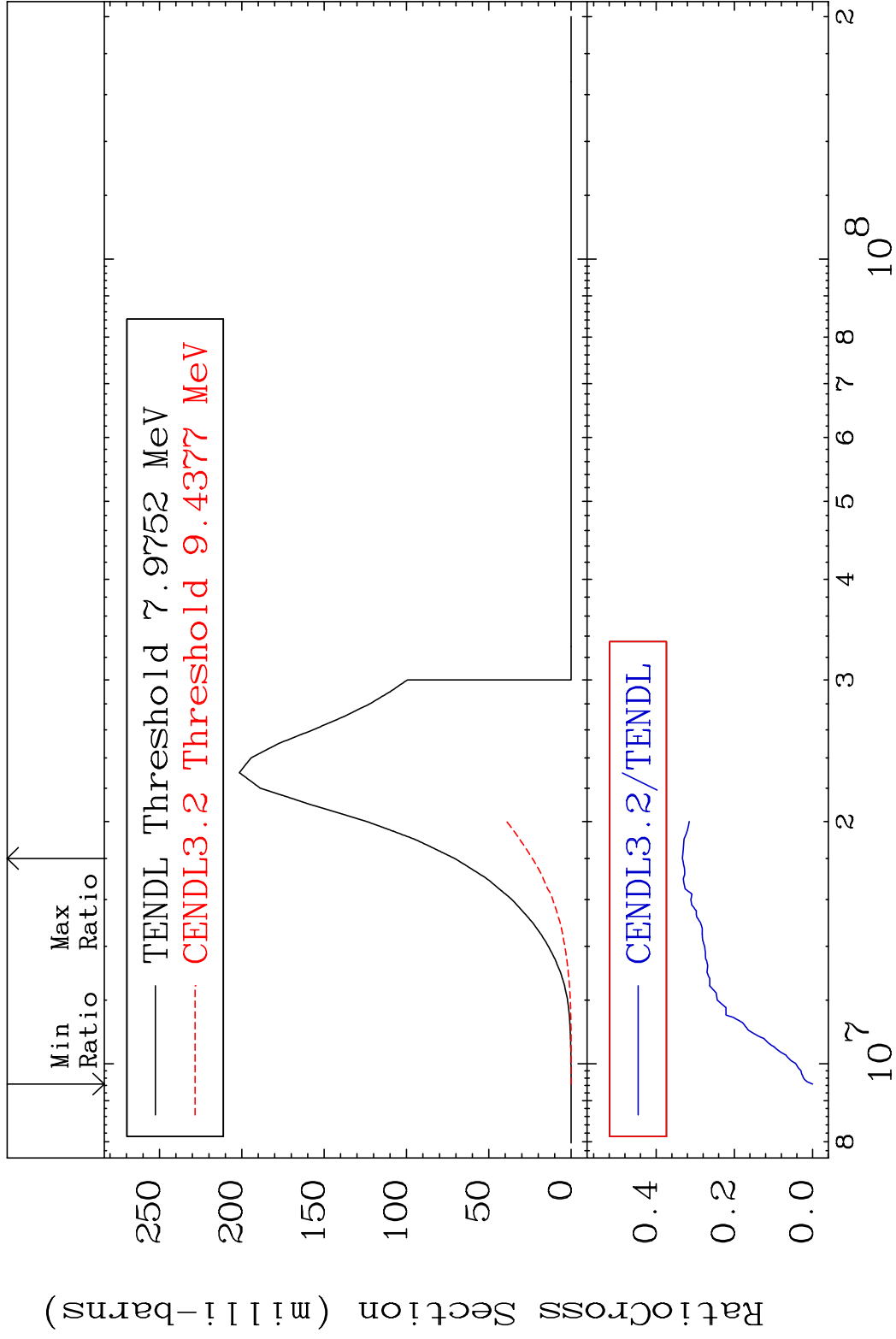
31-Ga-71

MAT 3131

(n, n') p

31-Ga-71

Cross Section -100.0 To -66.70%

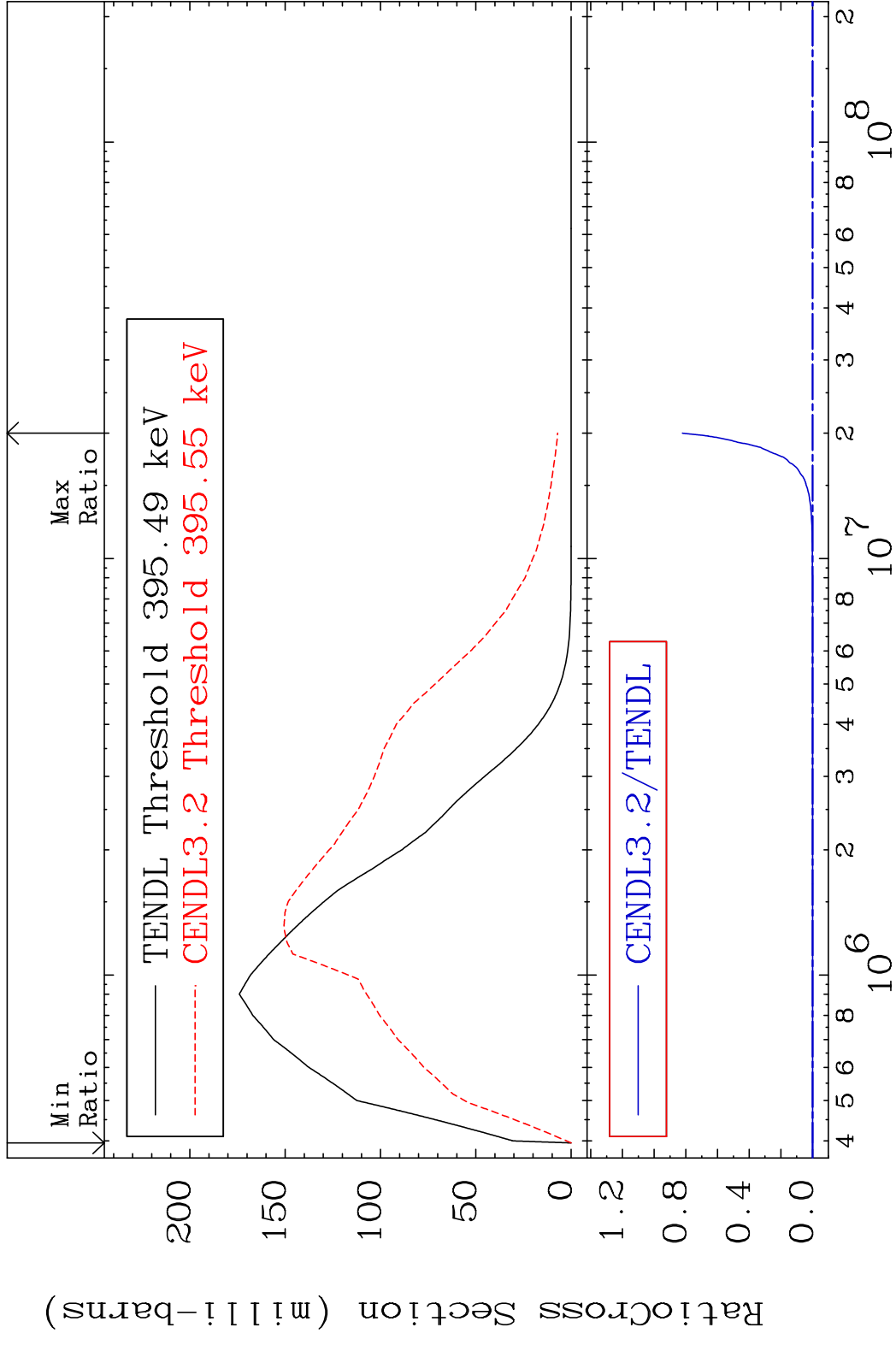


7

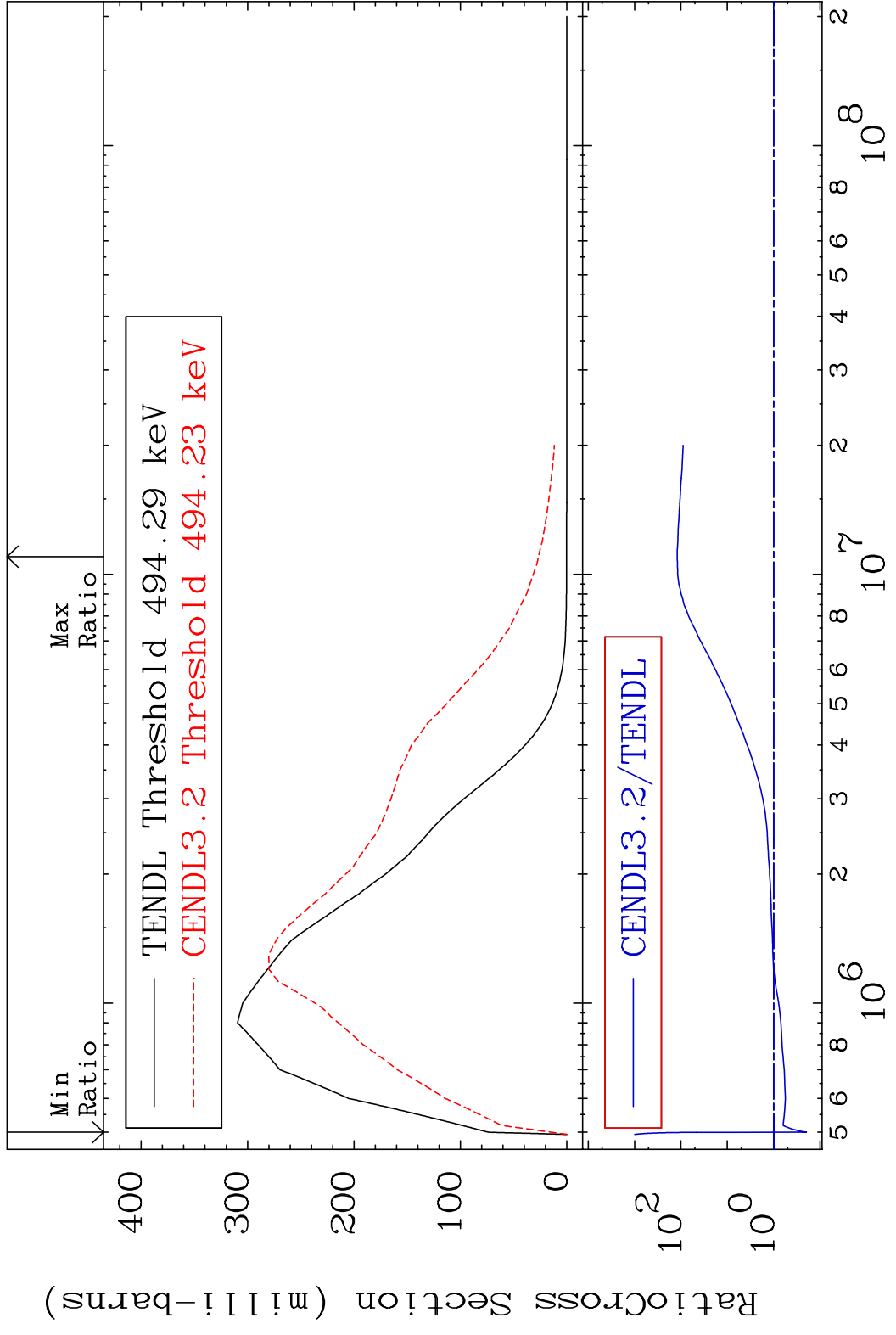
Incident Energy (eV)

31-Ga-71

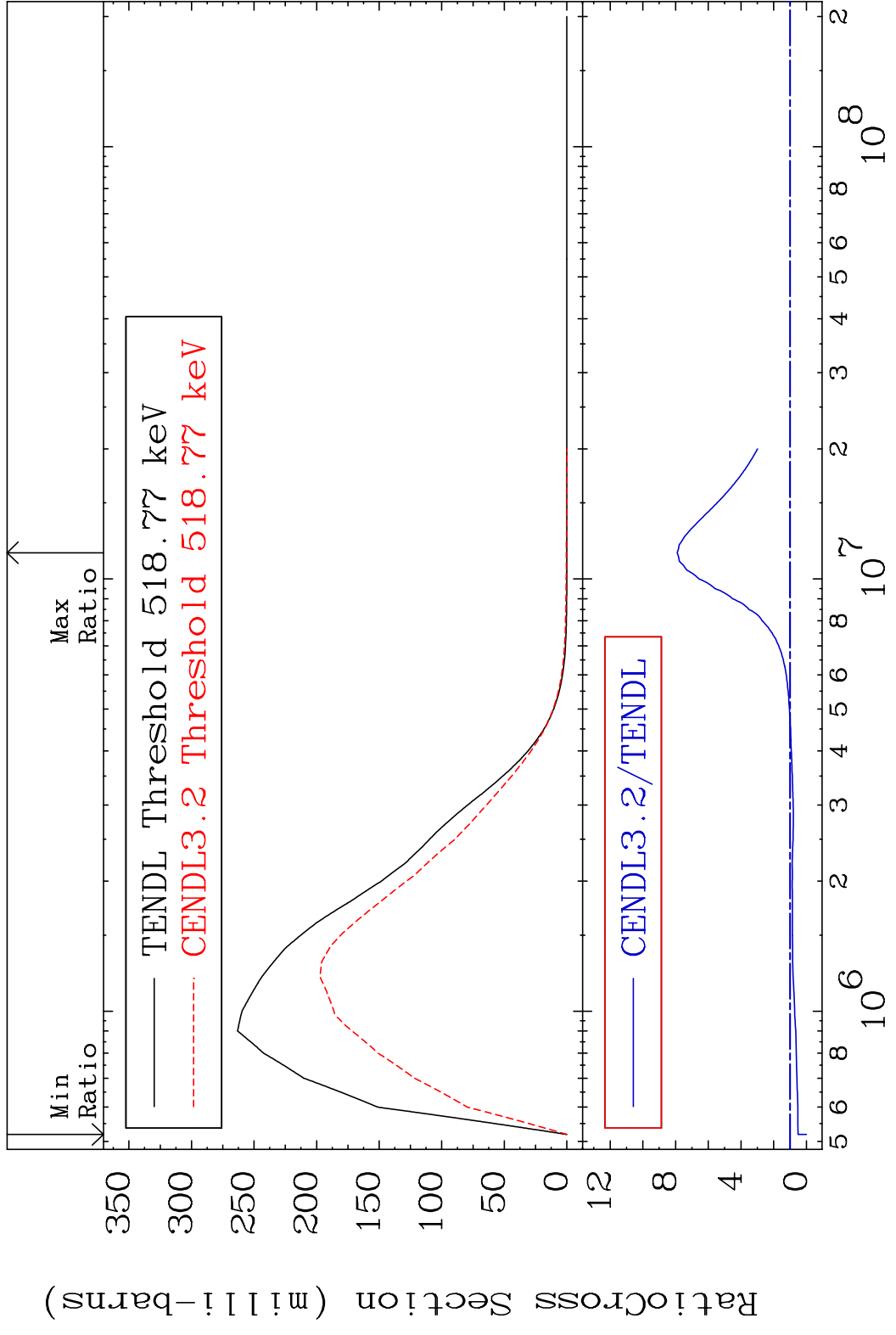
MAT 3131 MT= 51 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 9999. %



MAT 3131 MT= 52 (n, n') Level 31-Ga-71
 Cross Section -80.37 To 9999. %

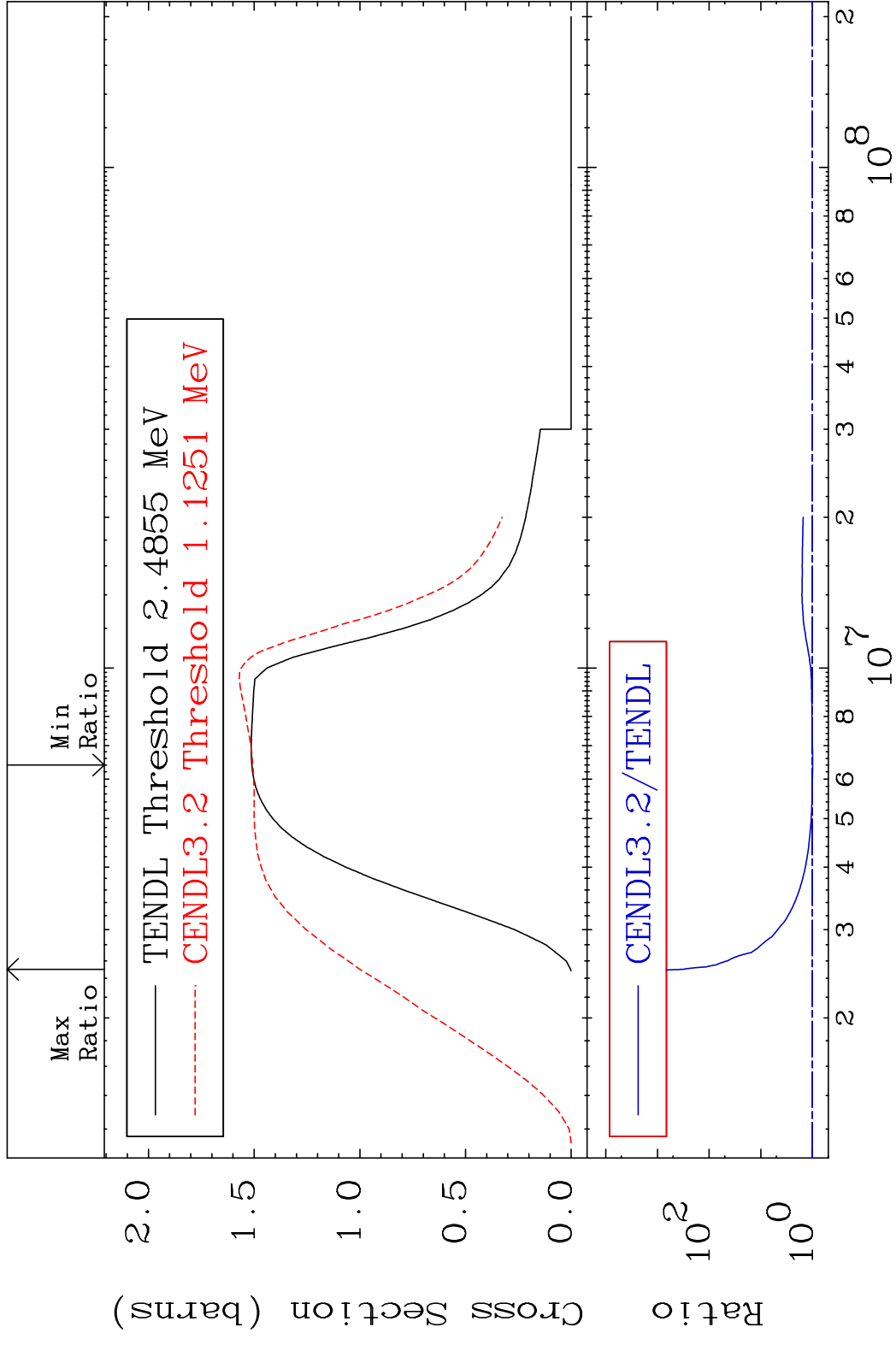


MAT 3131 MT= 53 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 690.1 %



10 Incident Energy (eV) 31-Ga-71

MAT 3131 (n, n') Continuum 31-Ga-71
 Cross Section -0.302 To 9999. %

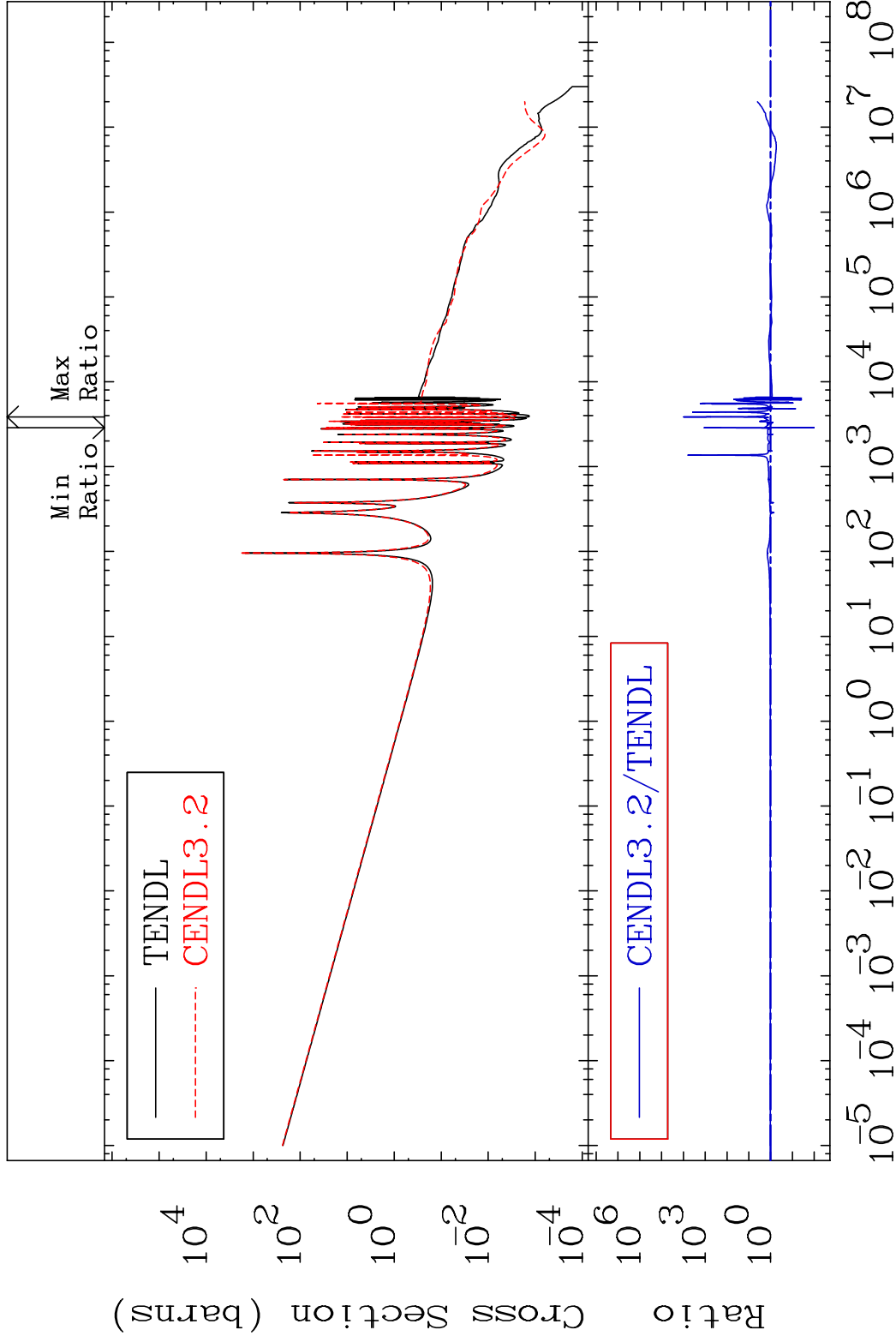


MAT 3131

(n, γ)

31-Ga-71

Cross Section -98.99 To 9999. %



12

Incident Energy (eV)

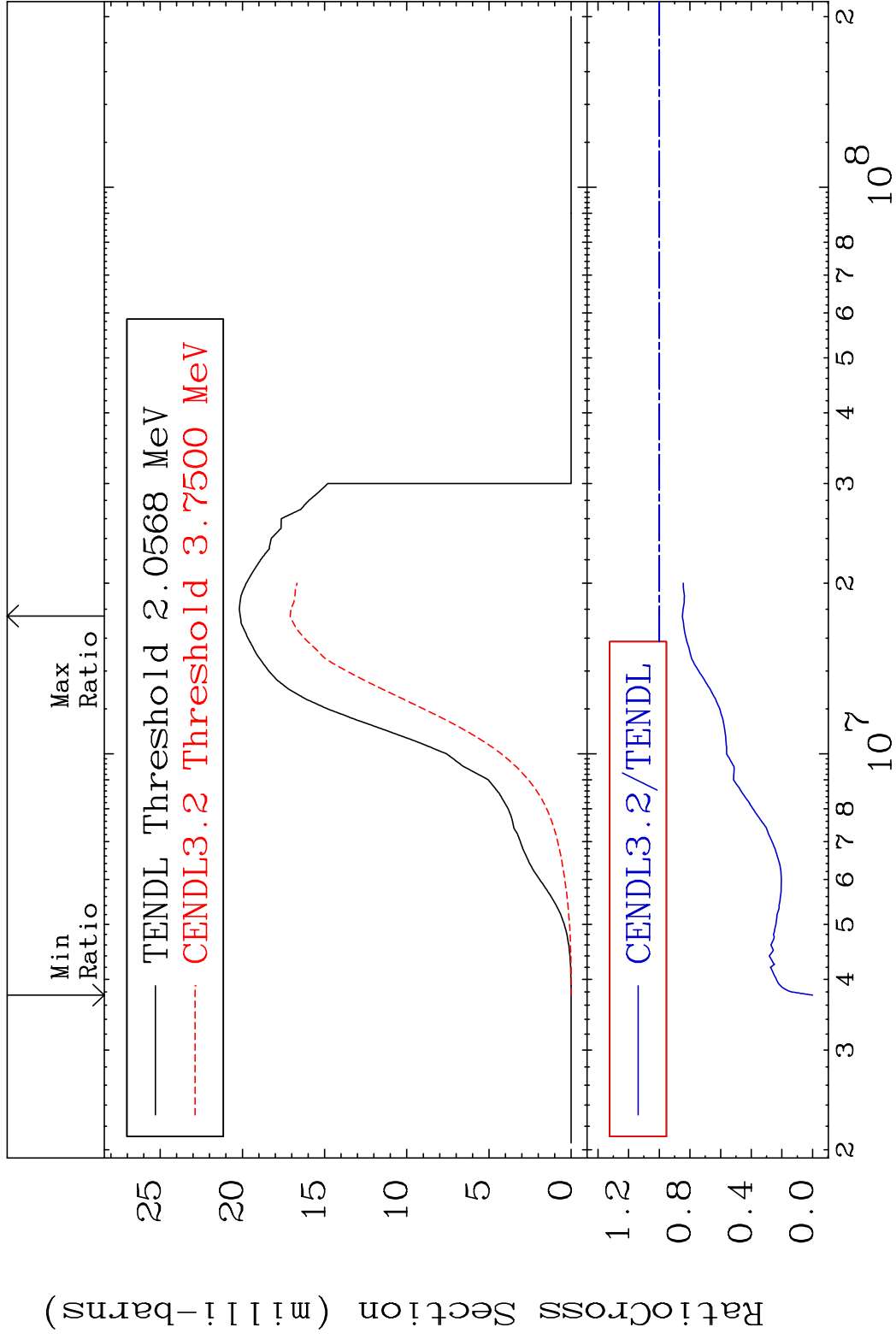
31-Ga-71

MAT 3131

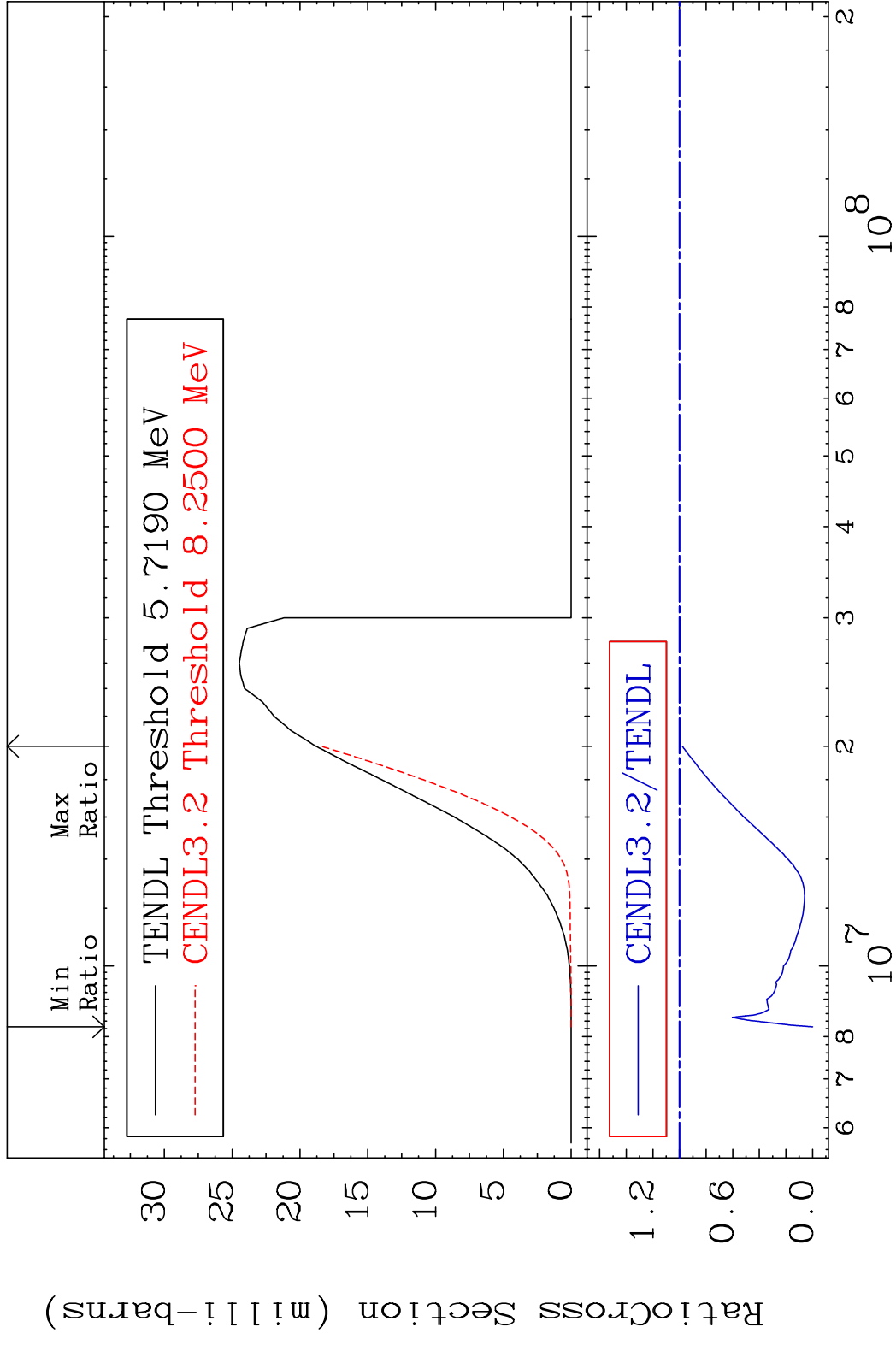
(n, p)

31-Ga-71

Cross Section -100.0 To -15.05%



MAT 3131 (n,d) 31-Ga-71
 Cross Section -100.0 To -2.151%

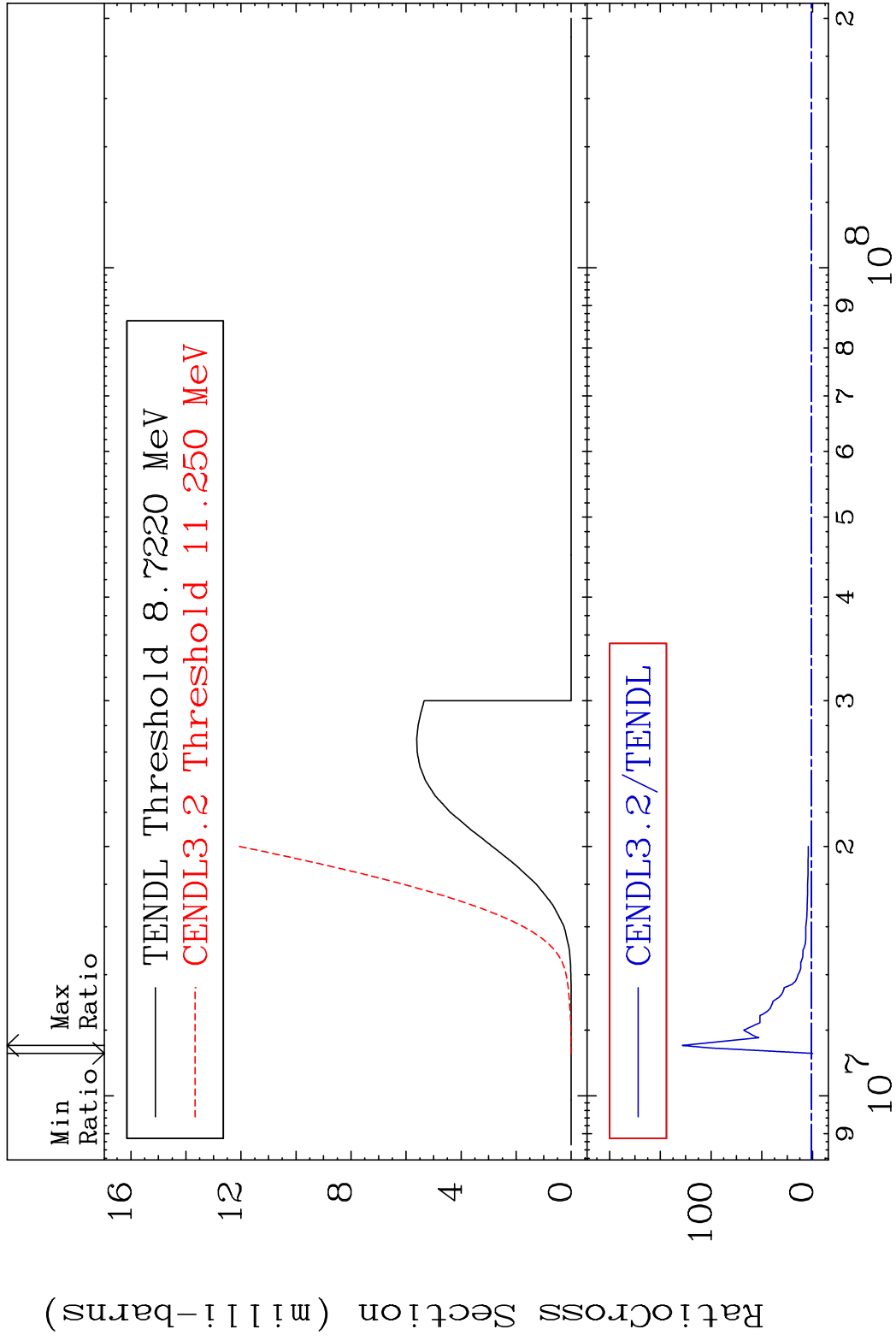


MAT 3131

(n, t)

31-Ga-71

Cross Section -100.0 To 9999. %



15

Incident Energy (eV)

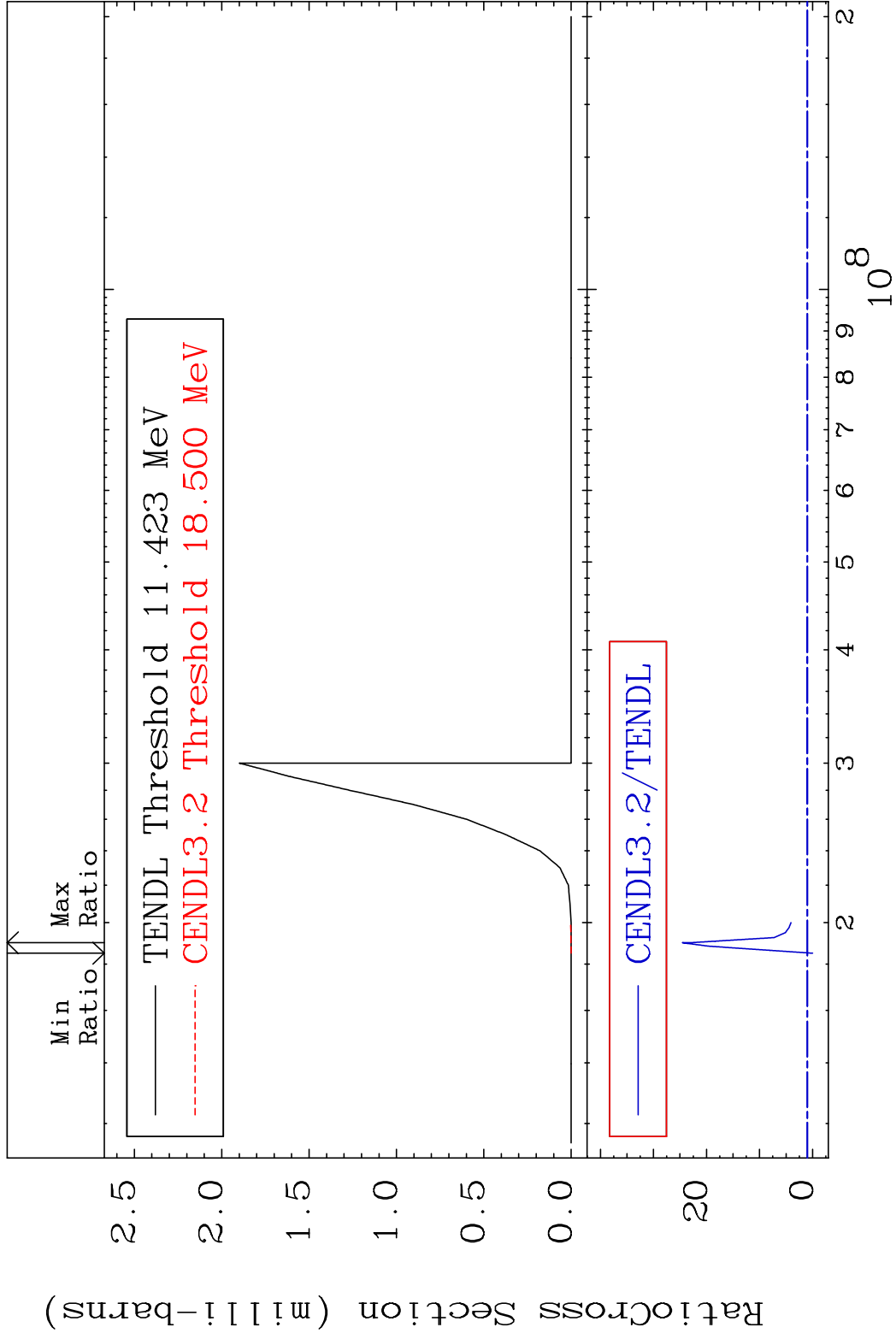
31-Ga-71

MAT 3131

(n, He-3)

31-Ga-71

Cross Section -100.0 To 2355. %

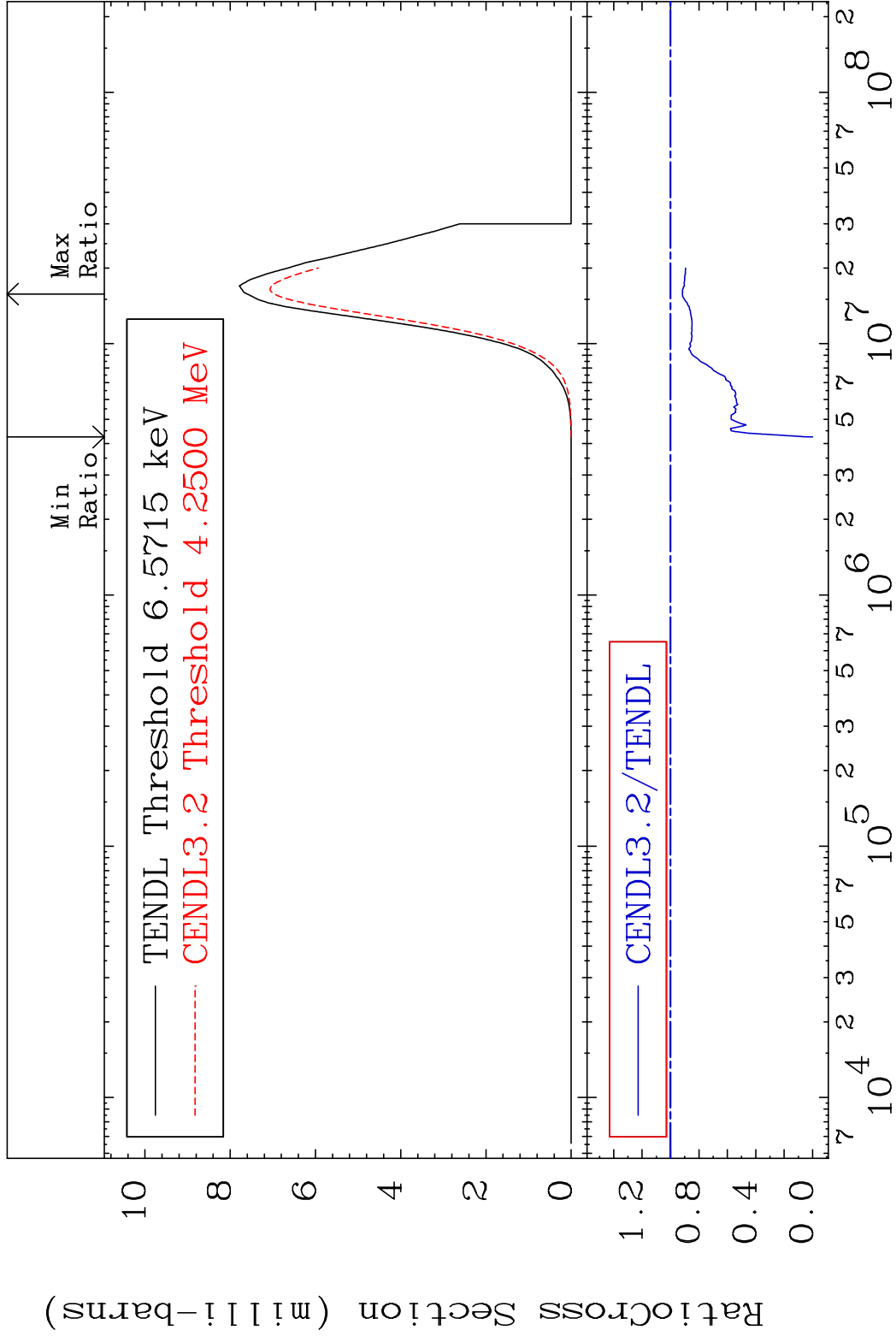


MAT 3131

(n, α)

31-Ga-71

Cross Section -100.0 To -8.324%

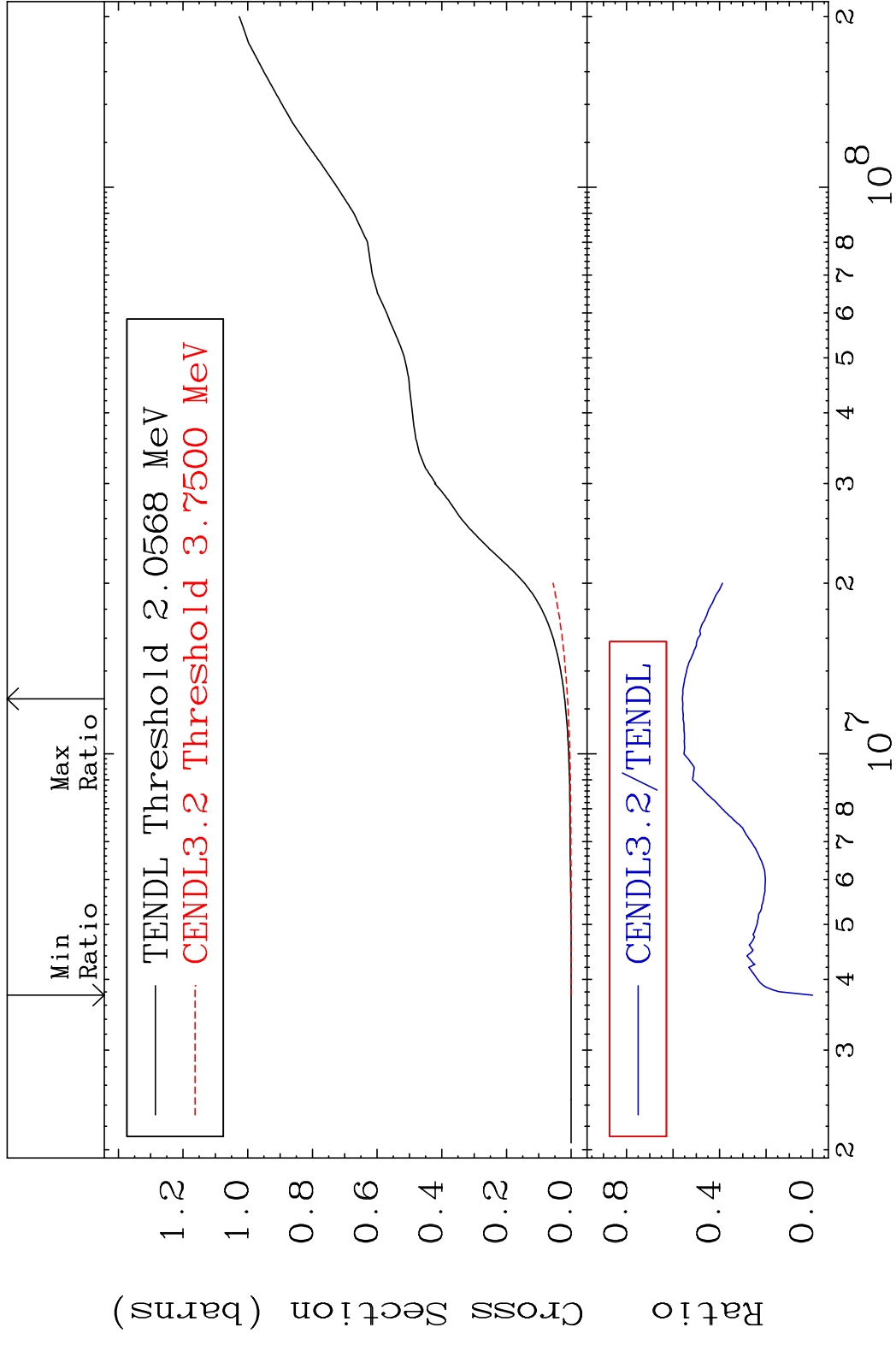


17

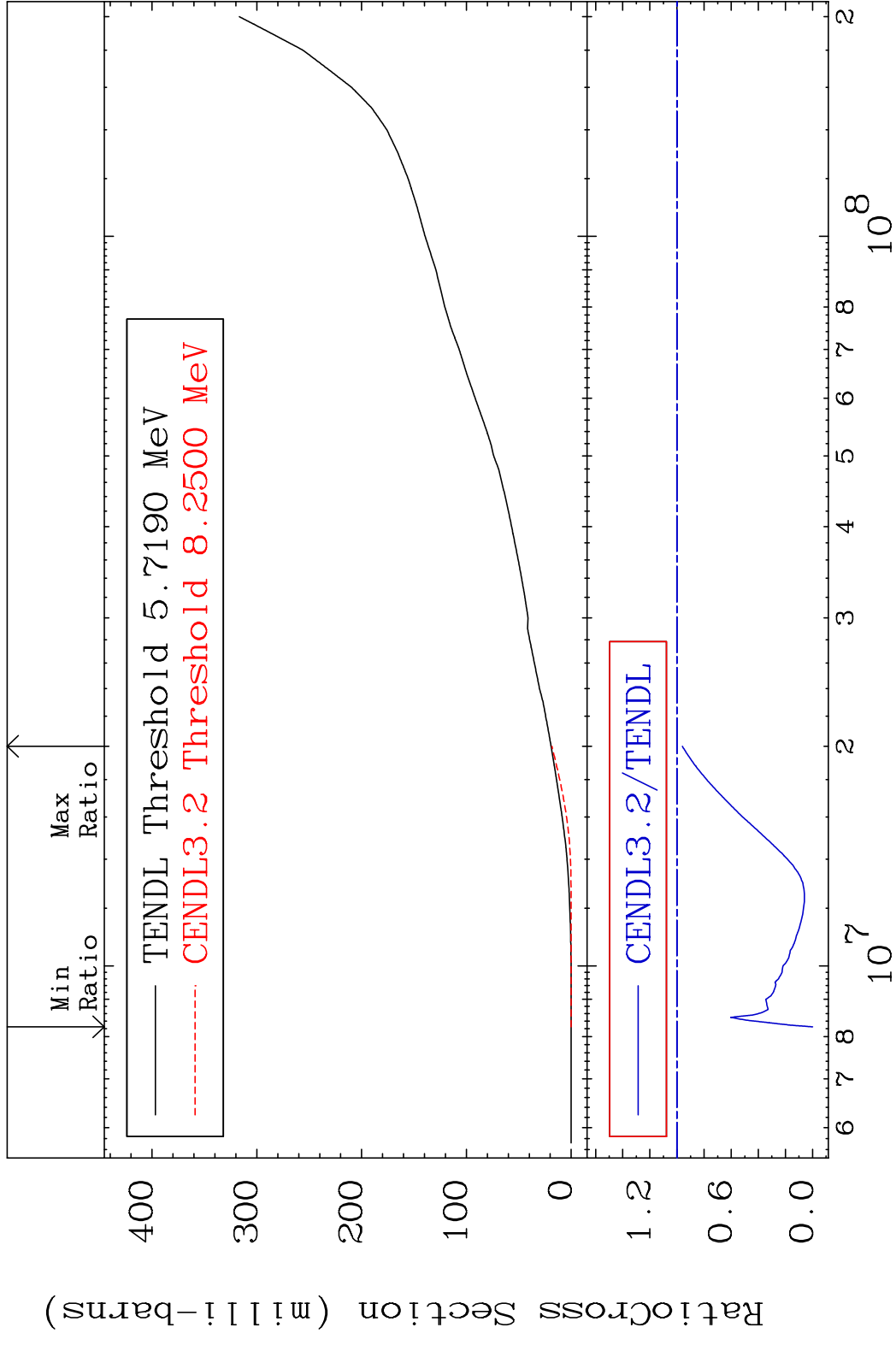
Incident Energy (eV)

31-Ga-71

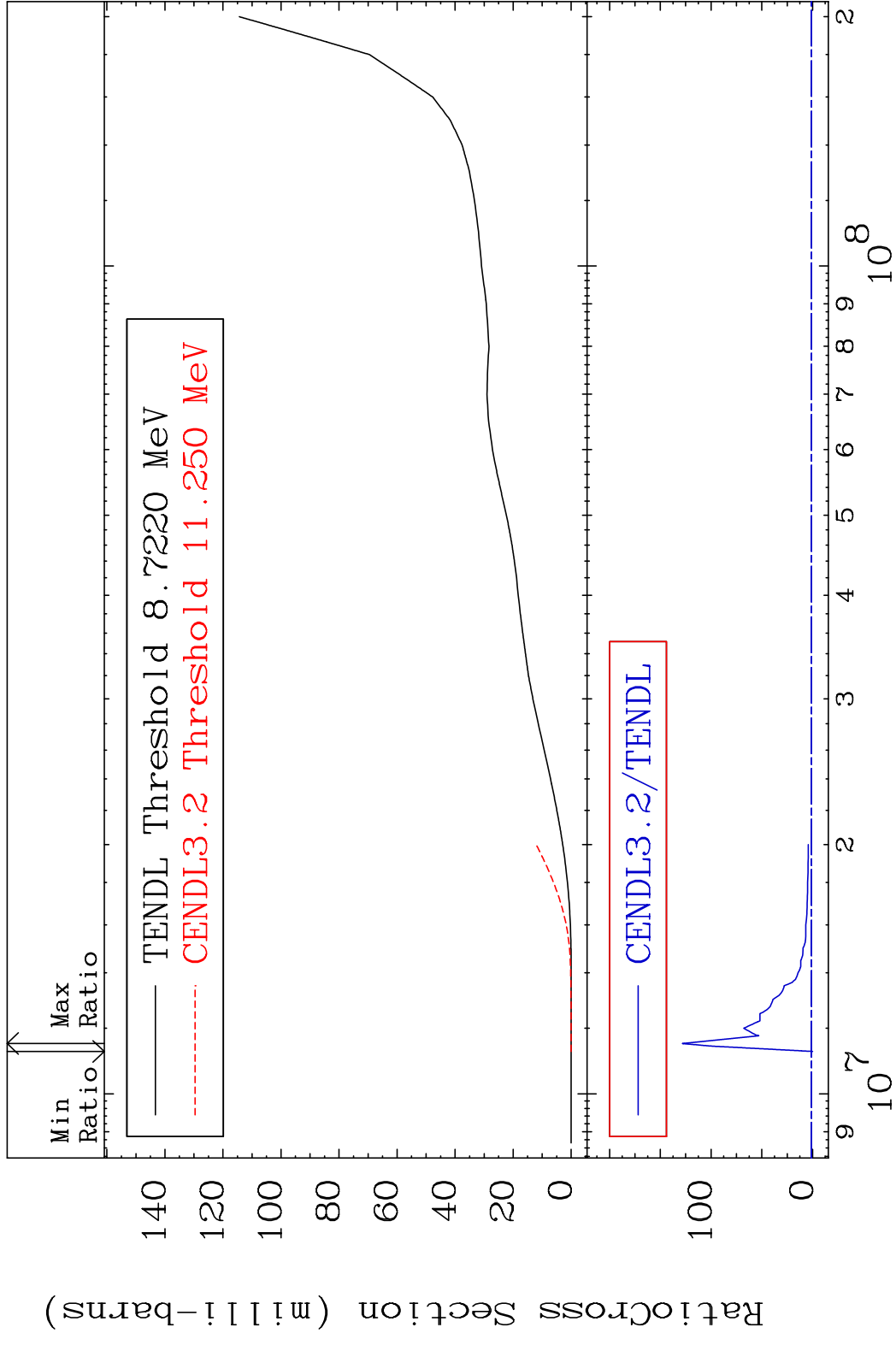
MAT 3131 Hydrogen Production 31-Ga-71
 Cross Section -100.0 To -43.98%



MAT 3131 Deuterium Production 31-Ga-71
 Cross Section -100.0 To -3.968%

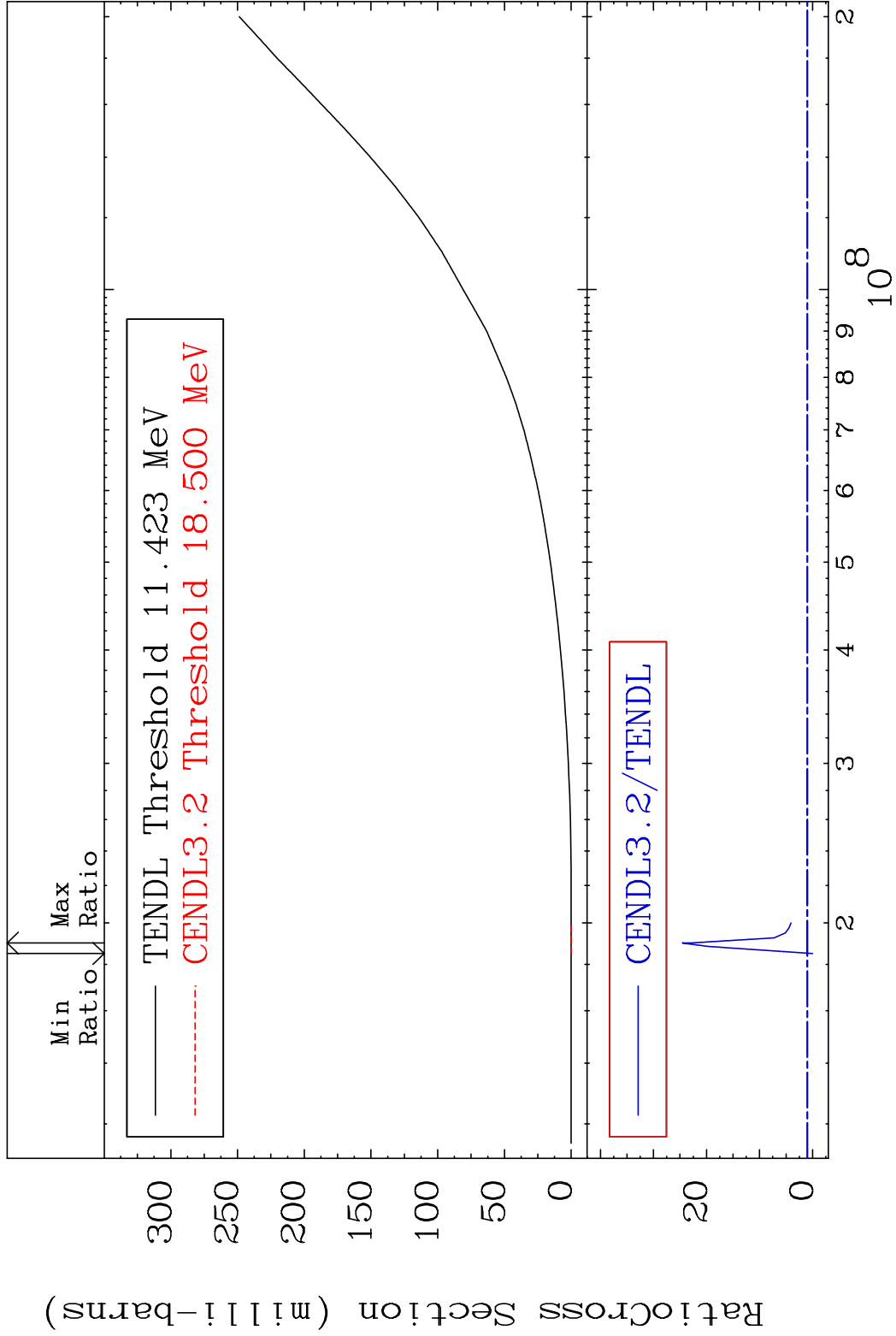


MAT 3131 Tritium Production 31-Ga-71
 Cross Section -100.0 To 9999. %

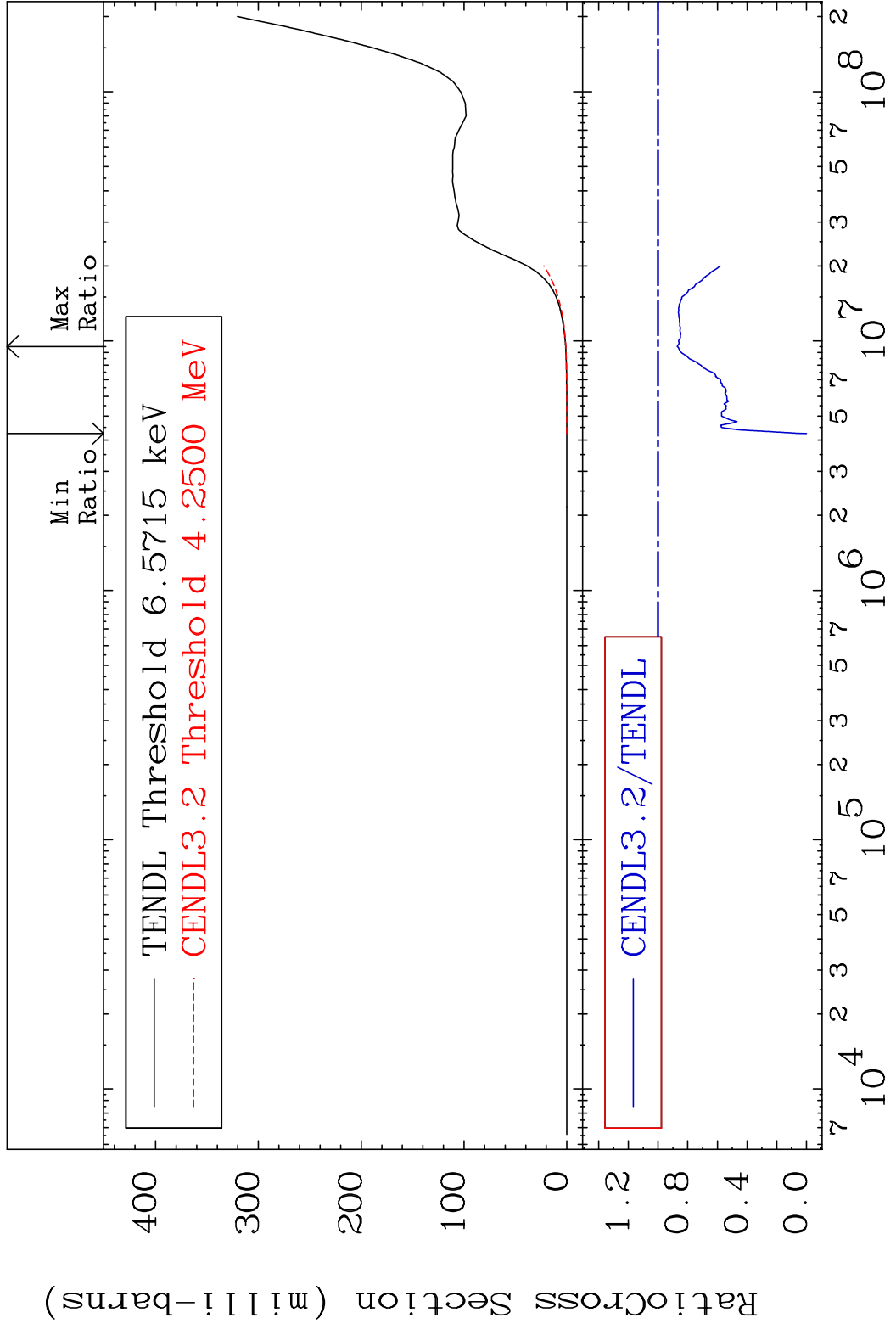


20 31-Ga-71

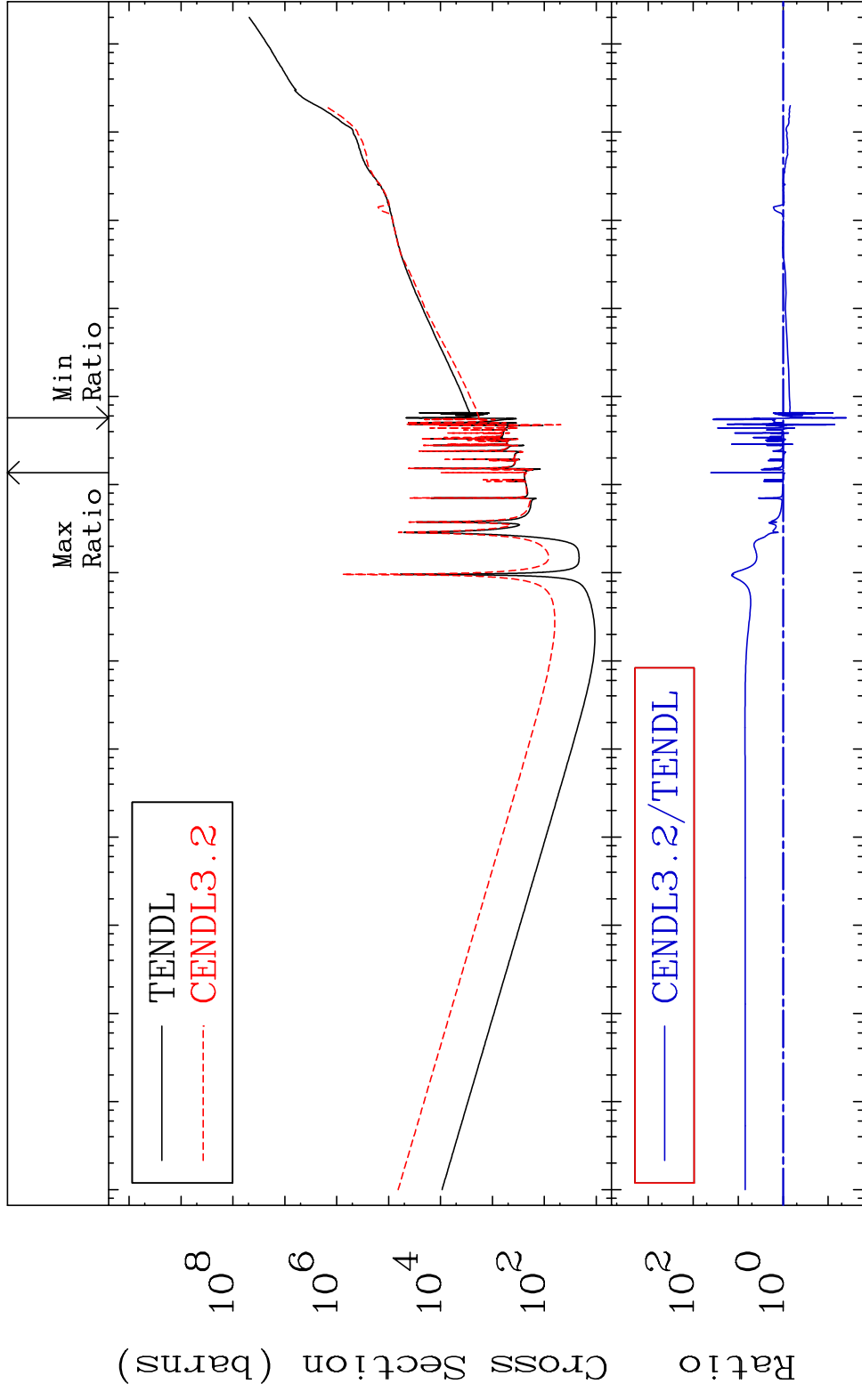
Cross Section -100.0 To 2355. %



MAT 3131 He-4 Production 31-Ga-71
 Cross Section -100.0 To -12.89%

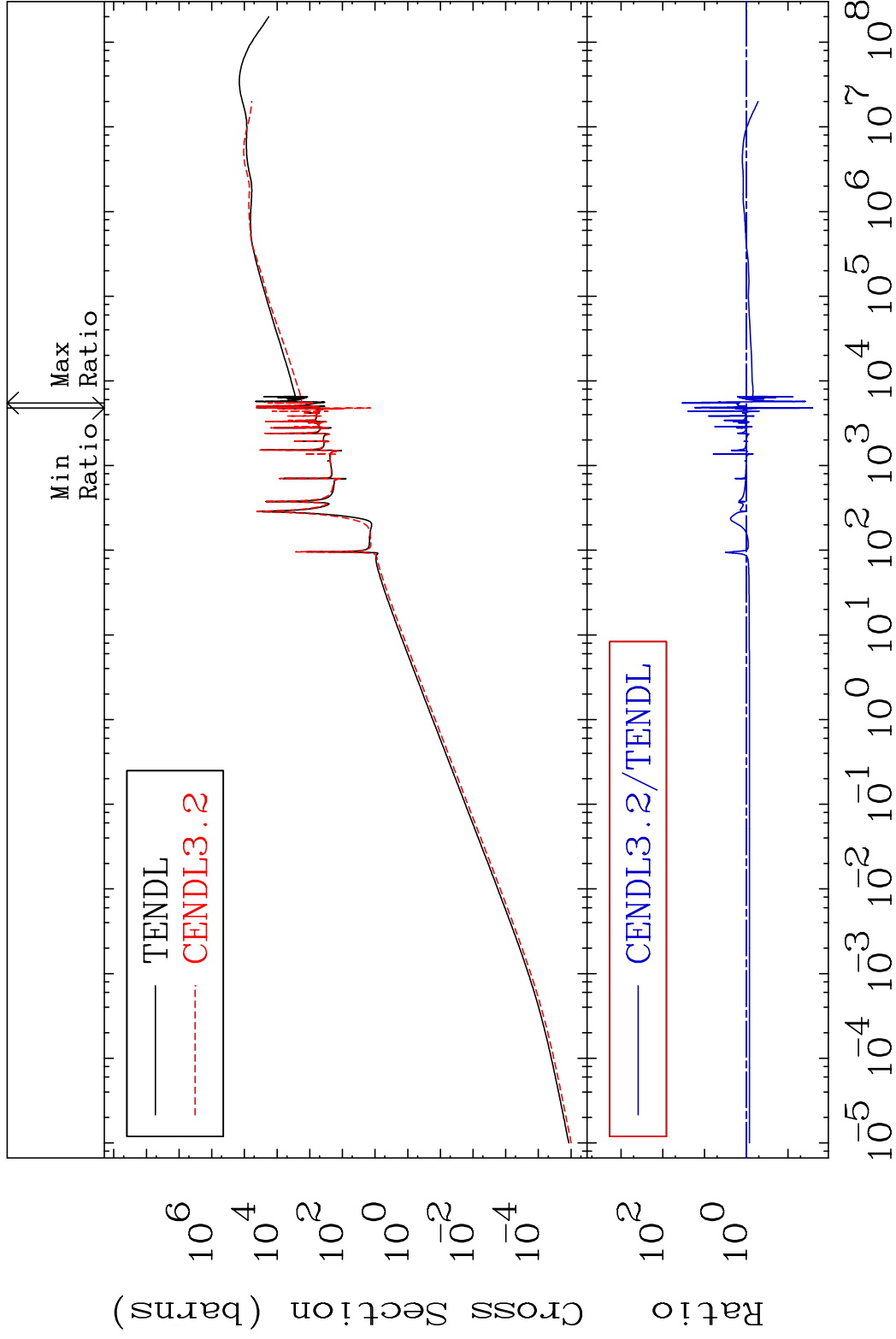


MAT 3131 Kerma total (eV-barns) 31-Ga-71
 Cross Section -96.05 To 3982. %



MAT 3131

Kerma elastic Cross Section -97.42 To 3290. %
31-Ga-71

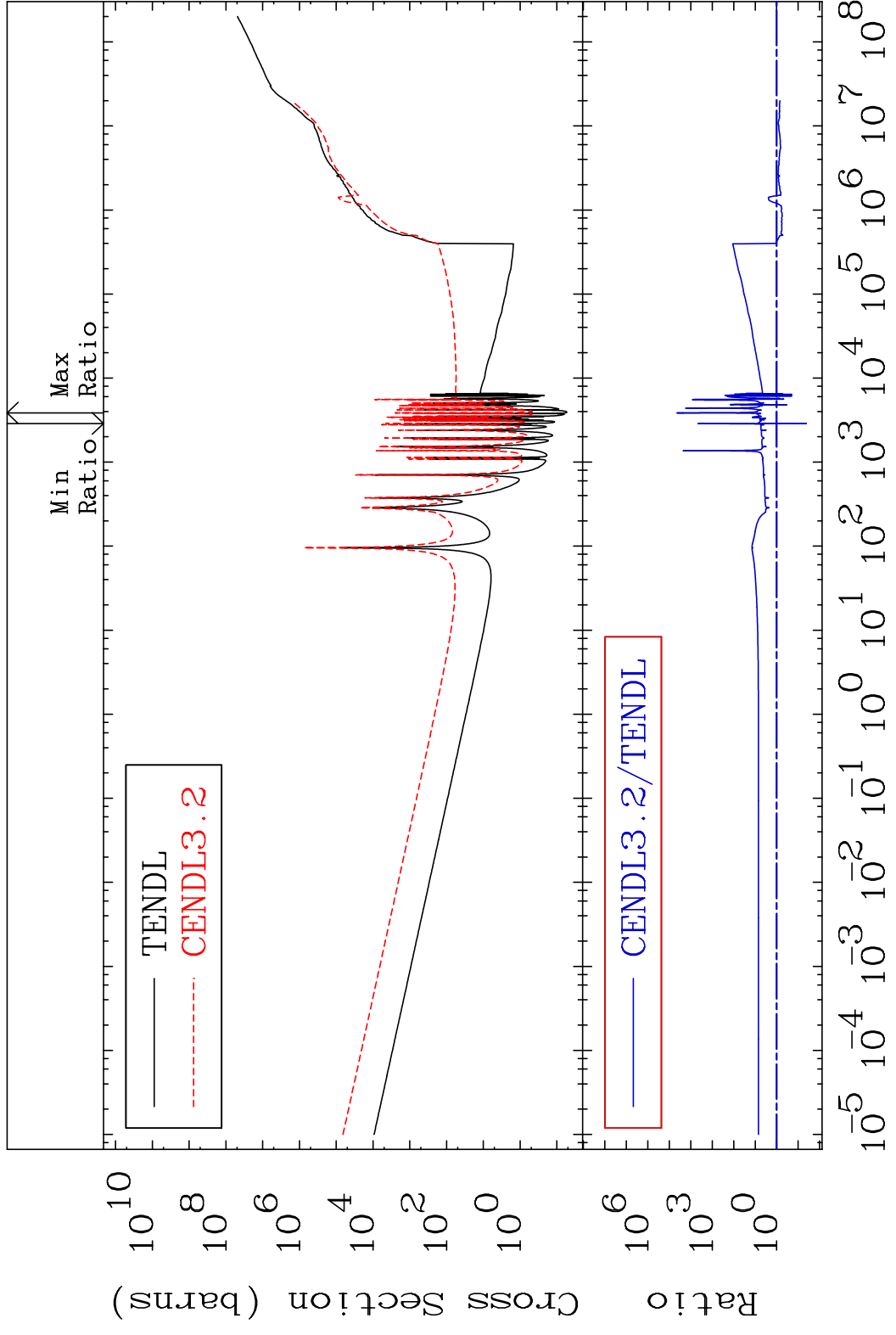


24

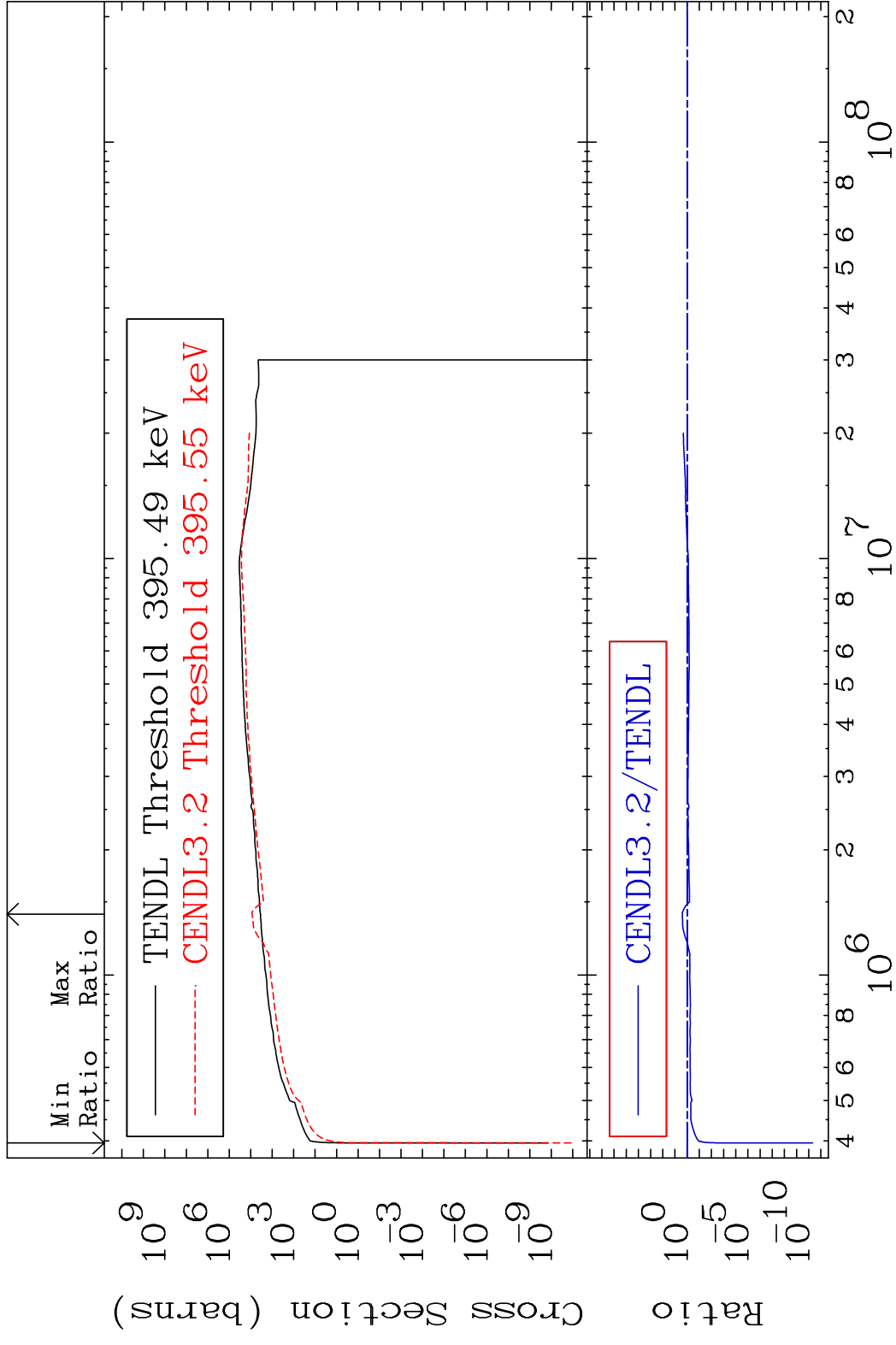
Incident Energy (eV)

31-Ga-71

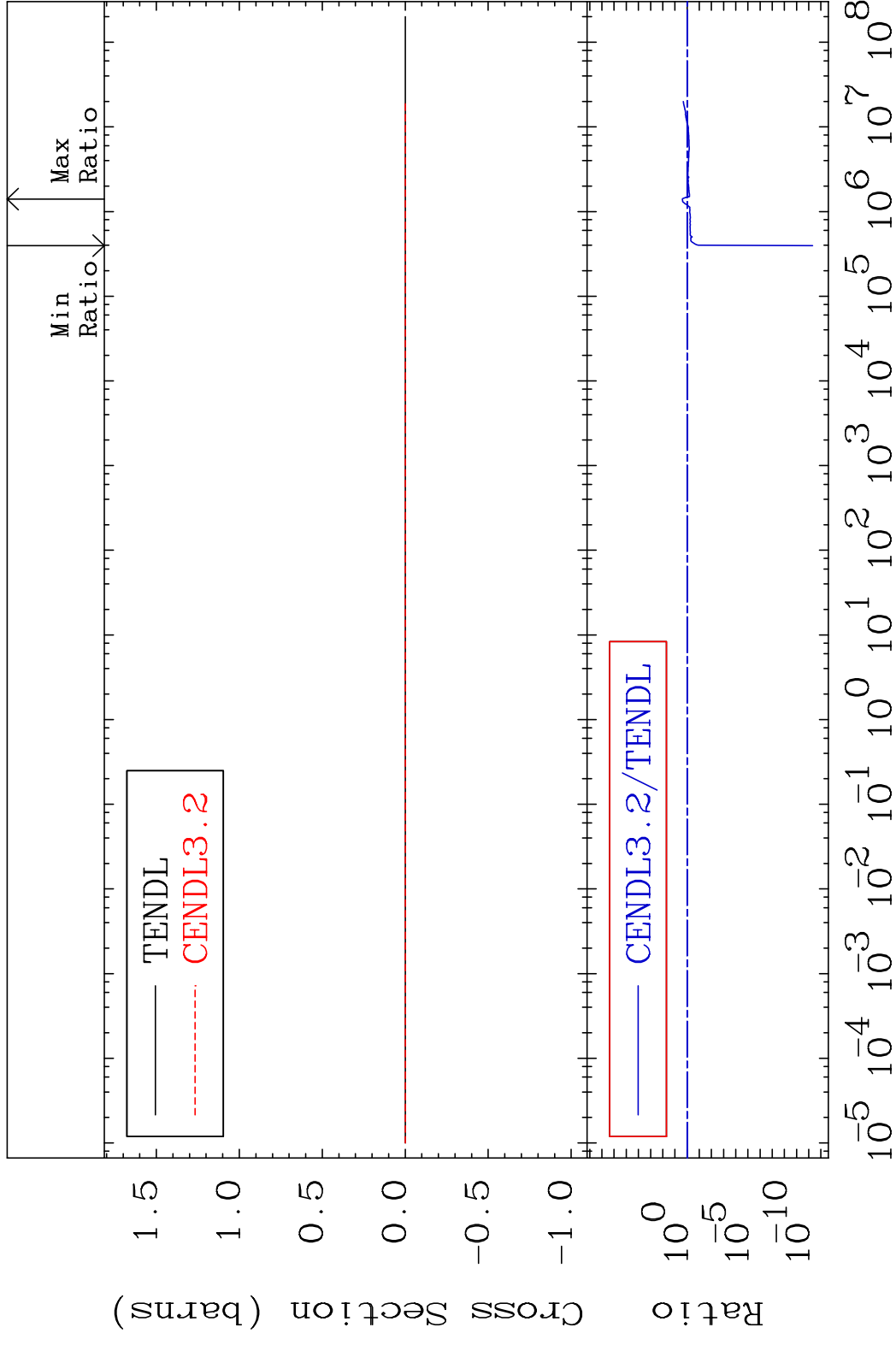
MAT 3131 Kerma non-elastic (all but mt2) 31-Ga-71
 Cross Section -95.86 To 9999. %



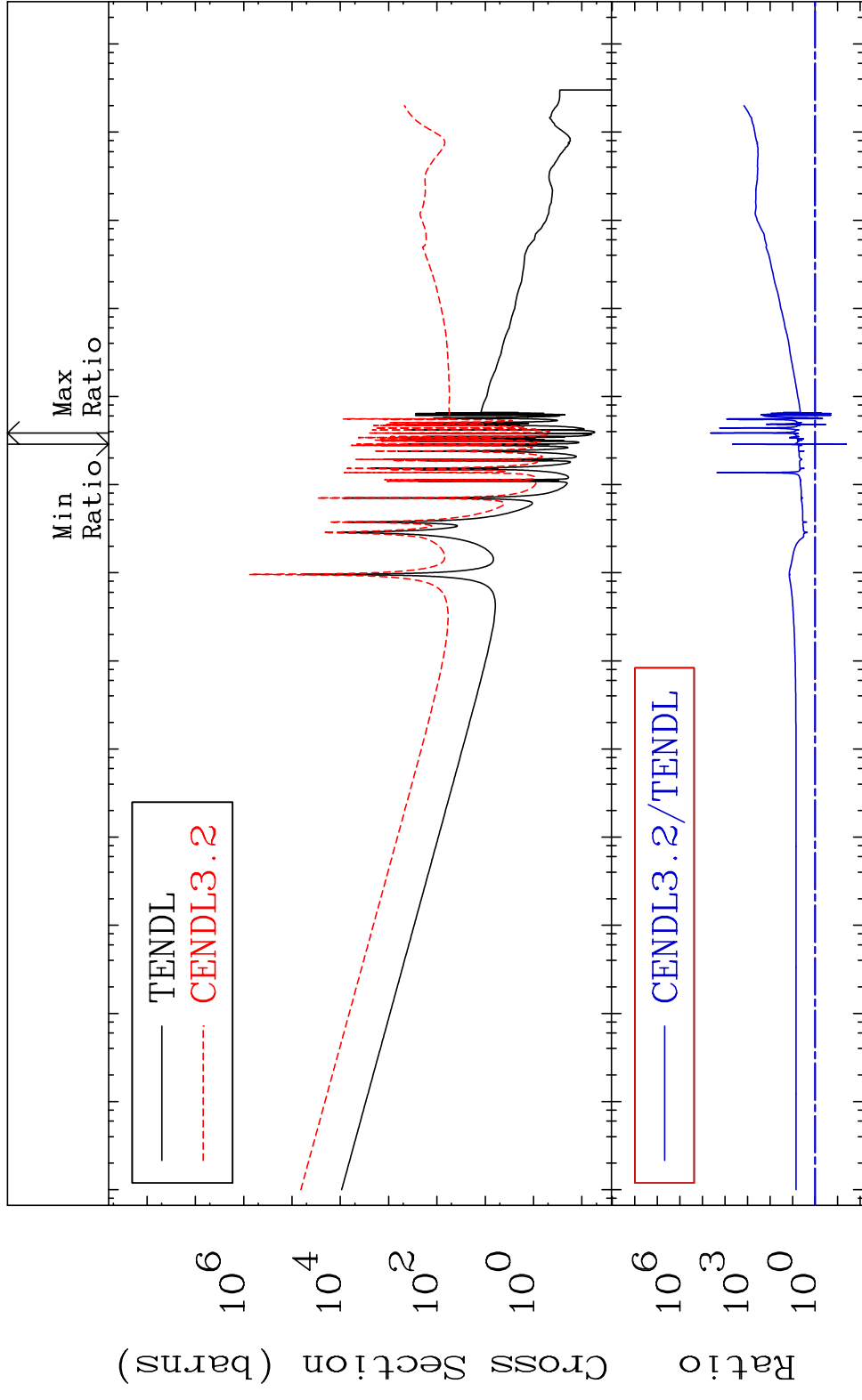
MAT 3131 Kerma inelastic (mt51-91) 31-Ga-71
 Cross Section -100.0 To 144.8 %



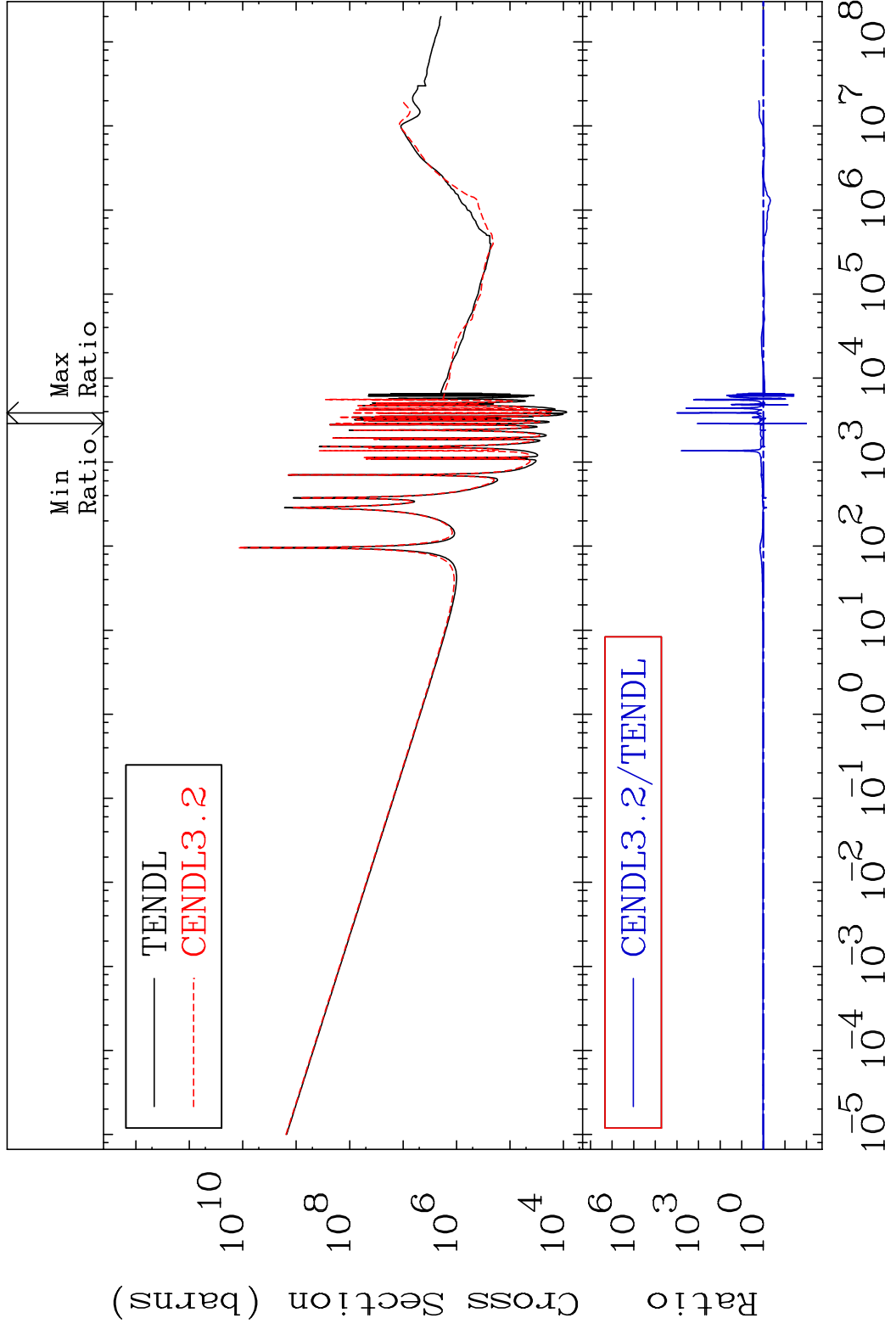
MAT 3131 Kerma fission (mt18 or mt19-20-21-38) 31-Ga-71
 Cross Section -100.0 To 144.8 %



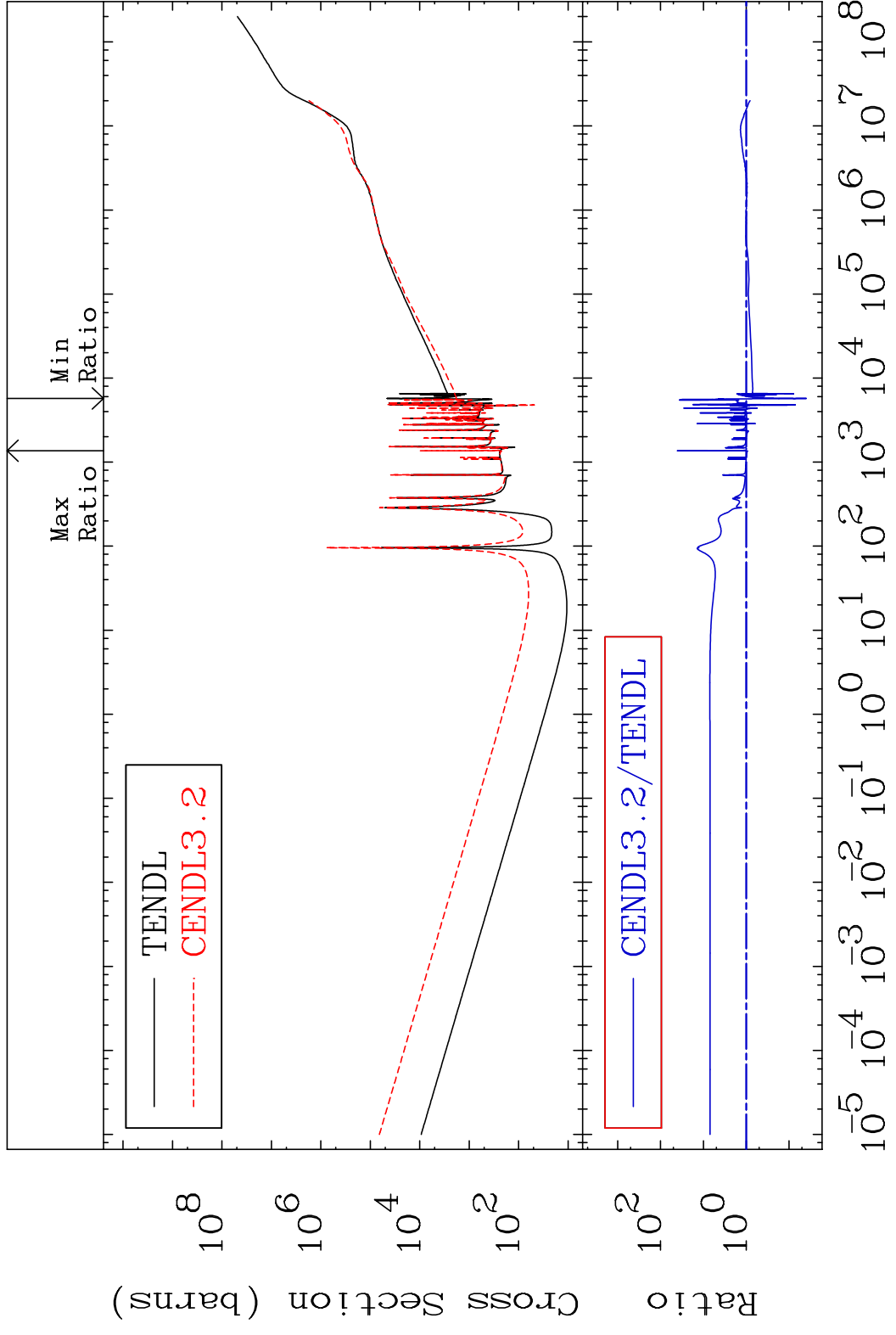
MAT 3131 Kerma capture (mt102) 31-Ga-71
 Cross Section -95.86 To 9999. %



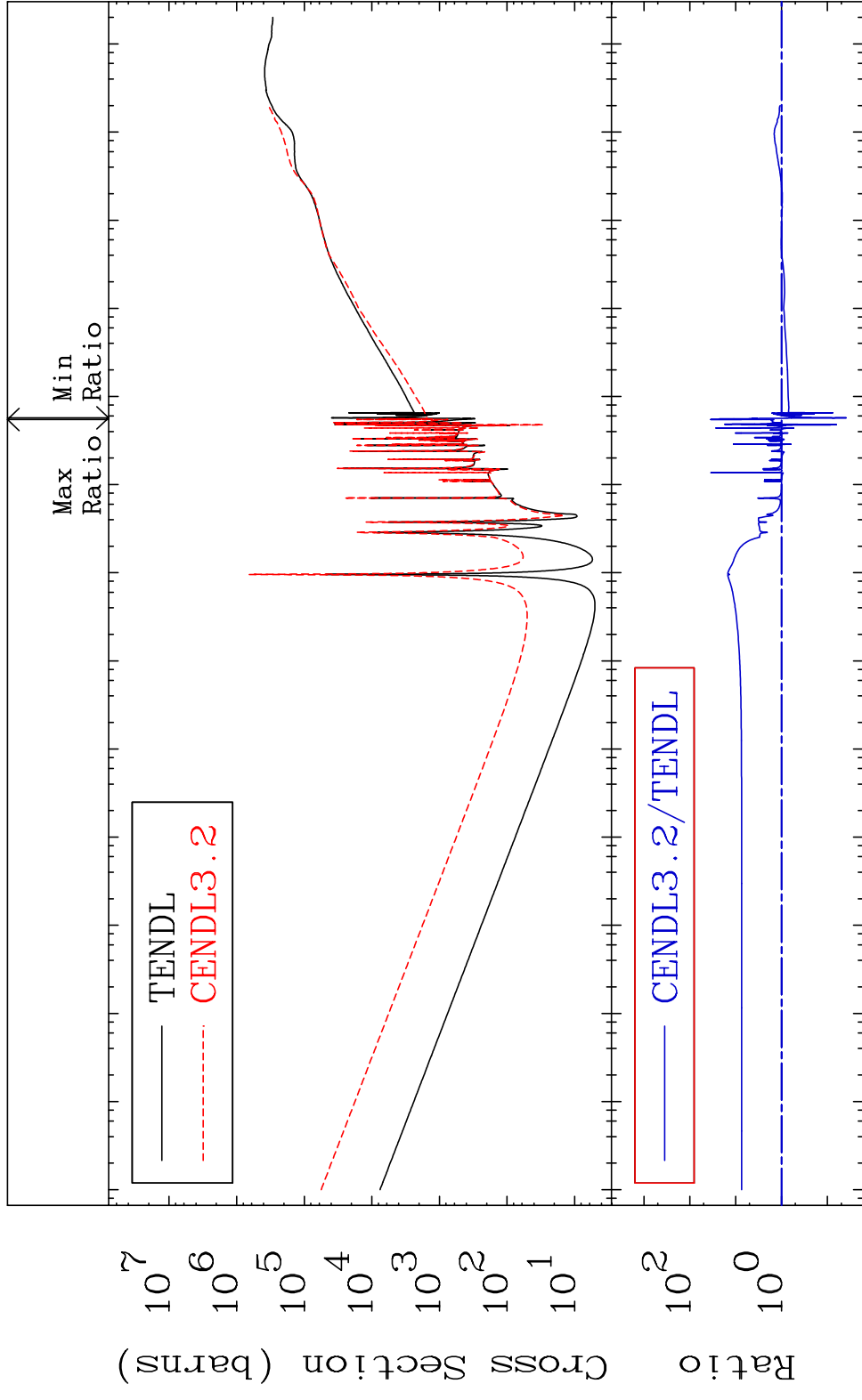
MAT 3131 Total photon (eV-barns) 31-Ga-71
 Cross Section -98.98 To 9999. %



MAT 3131 Total kinematic kerma (high limit) 31-Ga-71
 Cross Section -96.05 To 3982. %



MAT 3131 Dpa total (eV-barns) 31-Ga-71
 Cross Section -96.12 To 3403. %



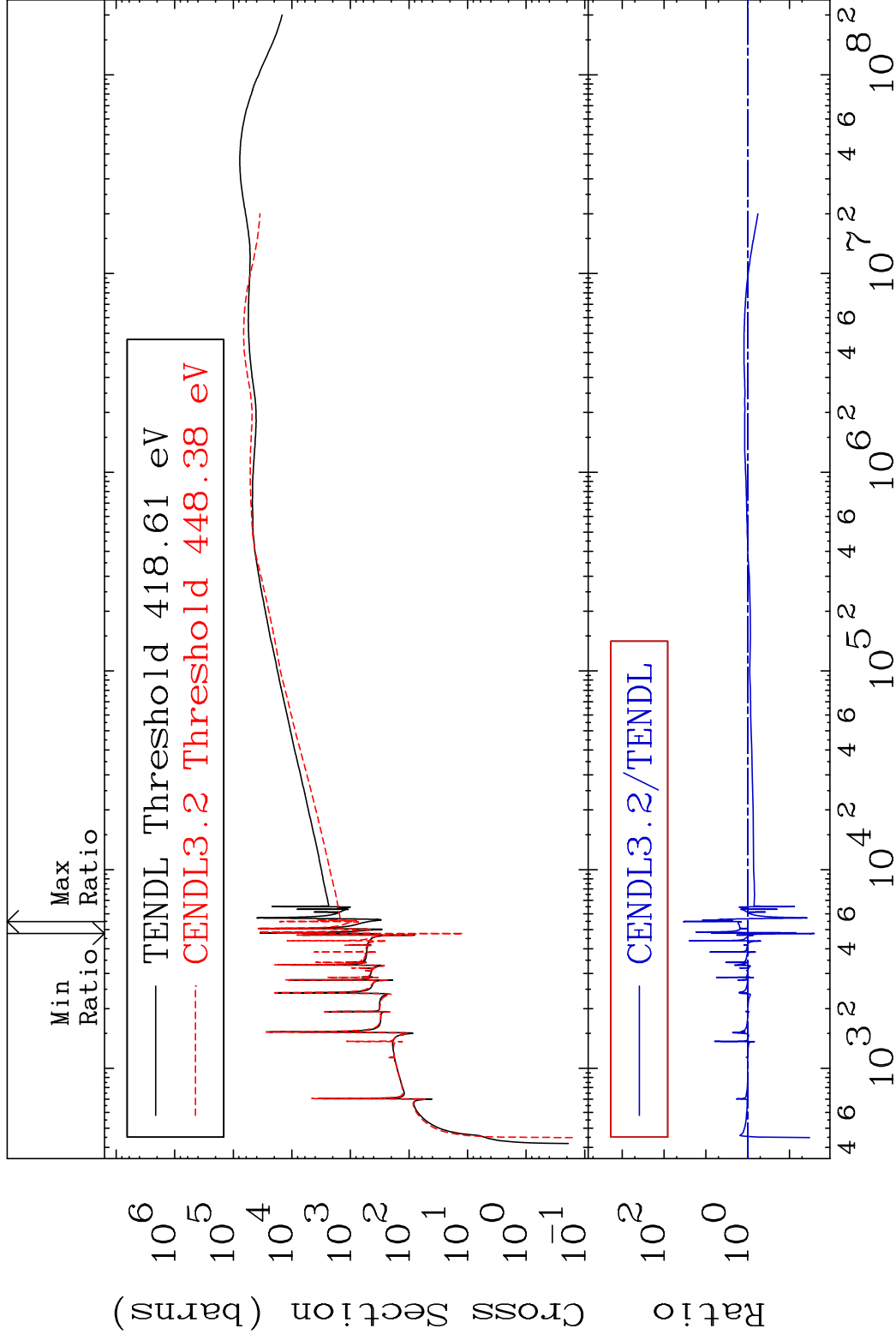
31 Incident Energy (eV) 31-Ga-71

MAT 3131

Dpa elastic (mt2)

31-Ga-71

Cross Section -97.41 To 3286. %

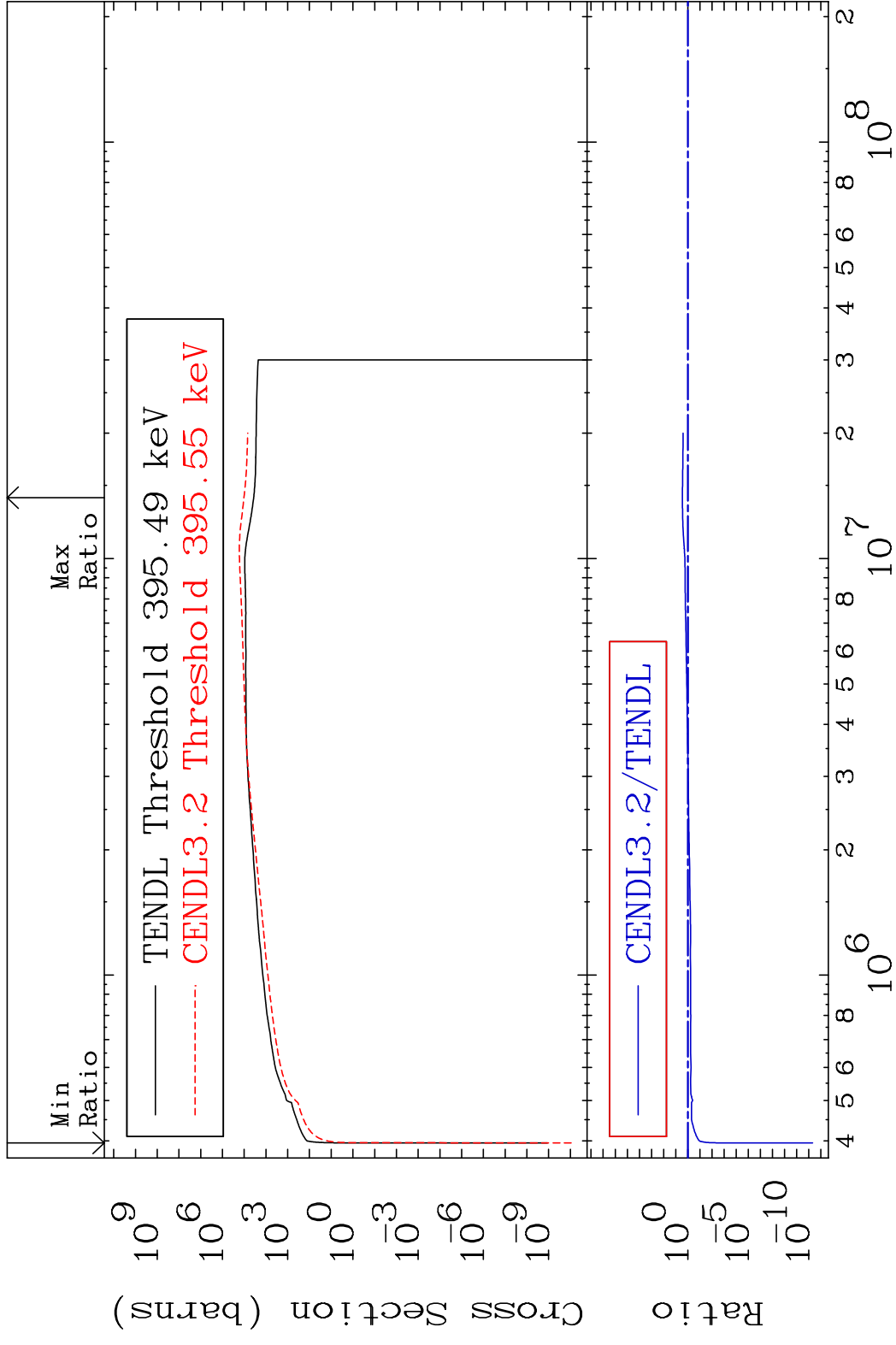


32

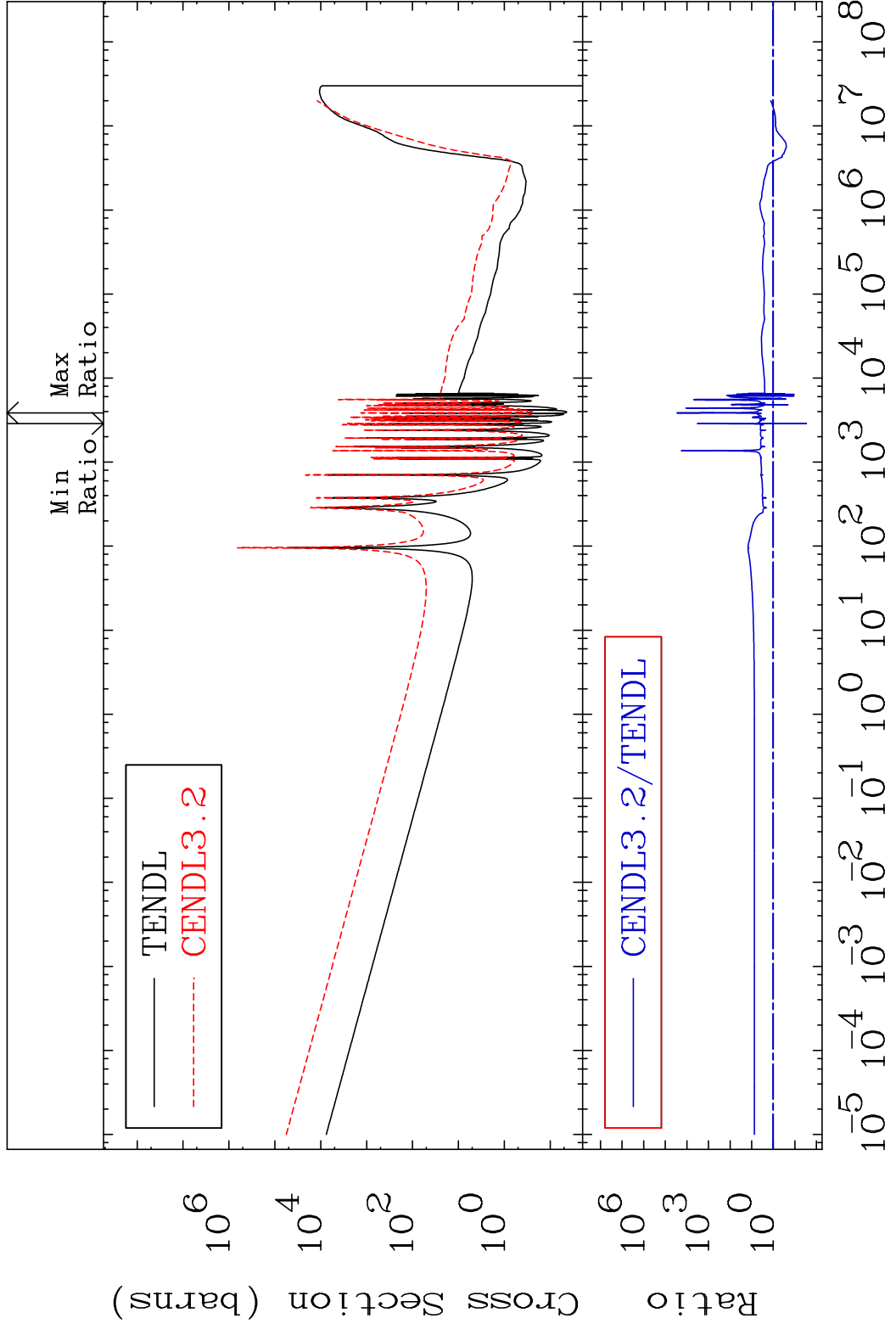
Incident Energy (eV)

31-Ga-71

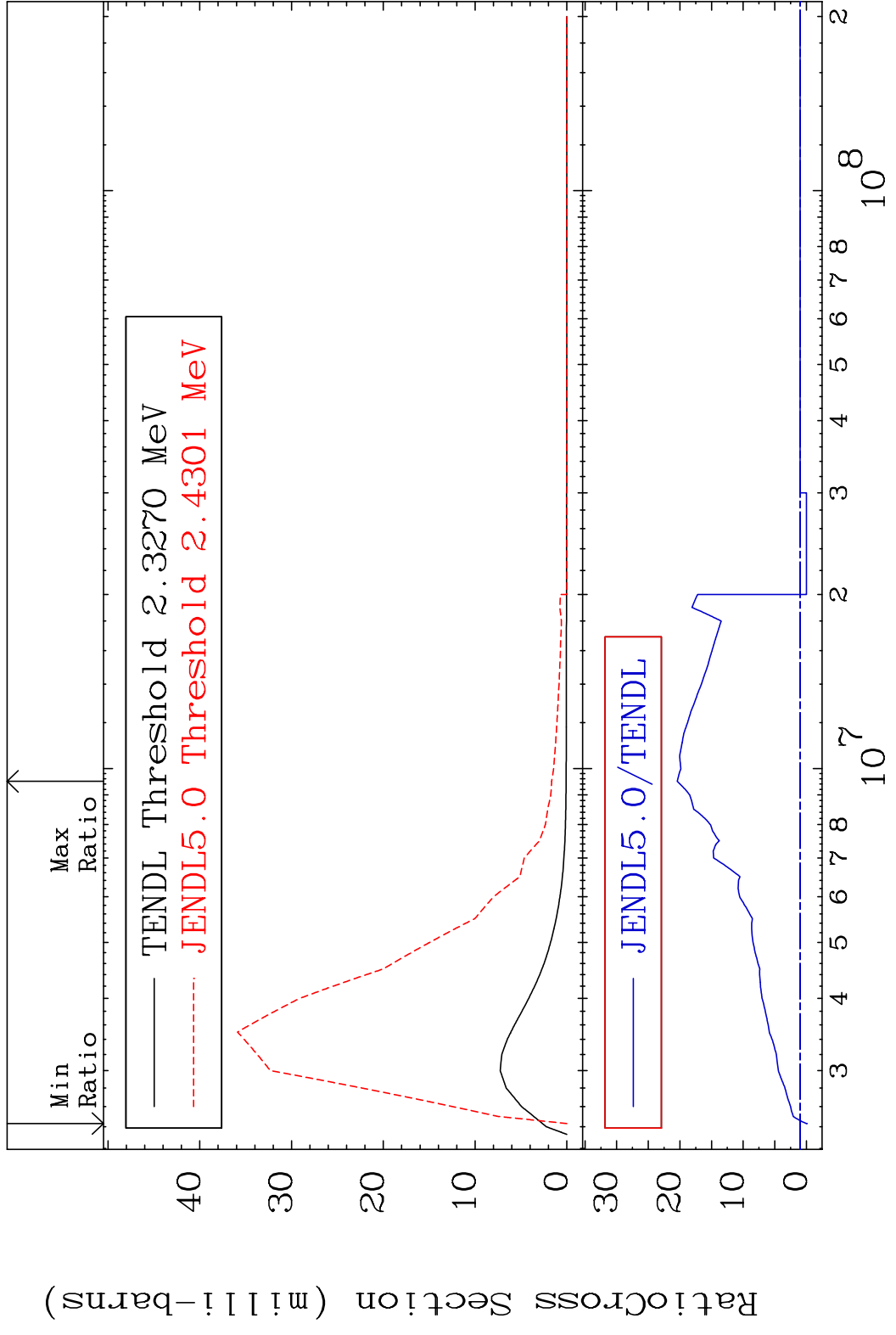
MAT 3131 Dpa inelastic (mt51-91) 31-Ga-71
 Cross Section -100.0 To 182.4 %



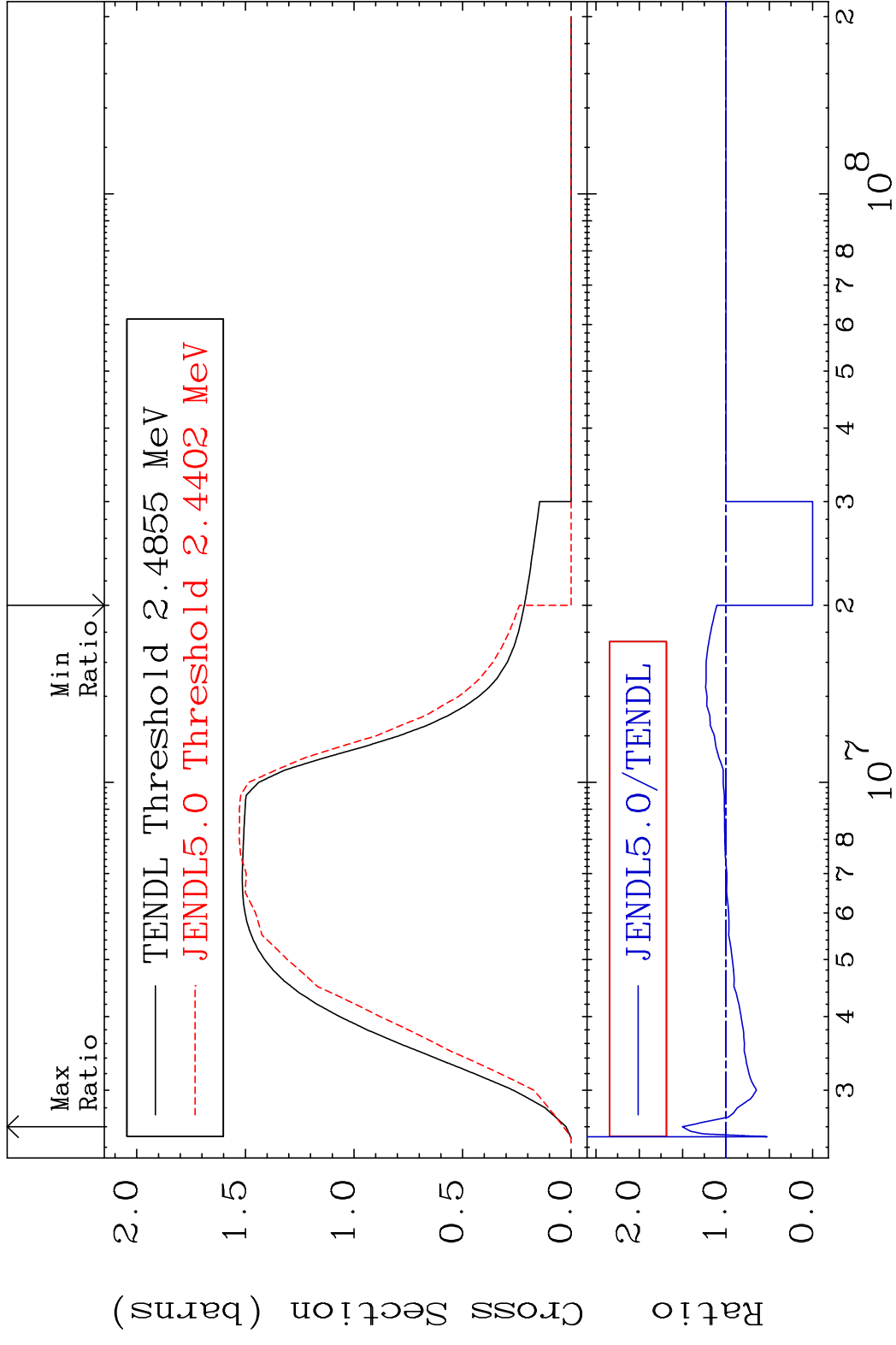
MAT 3131 Dpa disappearance (mt102 -120) 31-Ga-71
 Cross Section -97.07 To 9999. %



MAT 3131 MT= 76 (n,n') Level 31-Ga-71
 Cross Section -100.0 To 1943. %



MAT 3131 (n,n') Continuum 31-Ga-71
 Cross Section -100.0 To 50.21 %

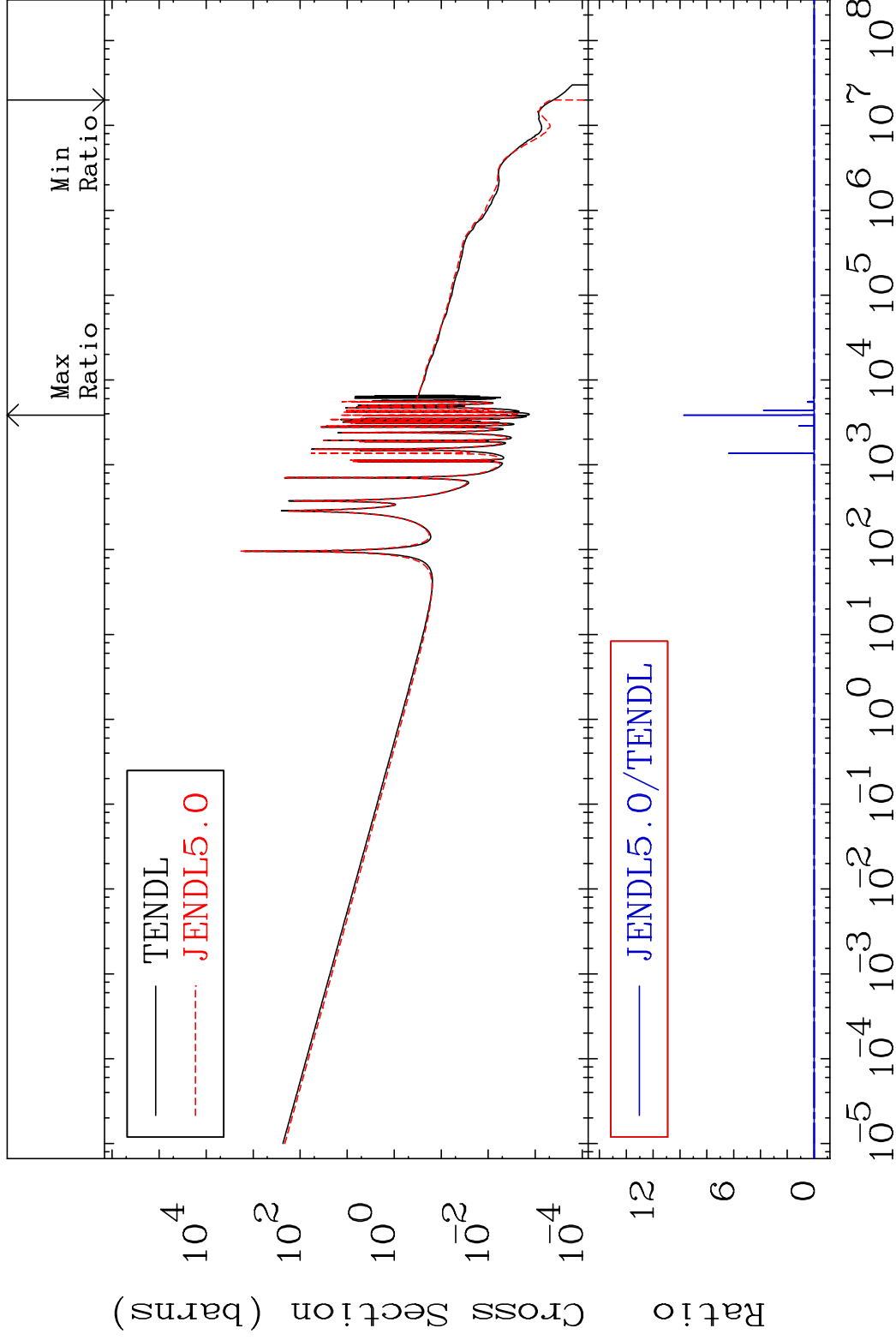


MAT 3131

(n, γ)

31-Ga-71

Cross Section -100.0 To 9999. %

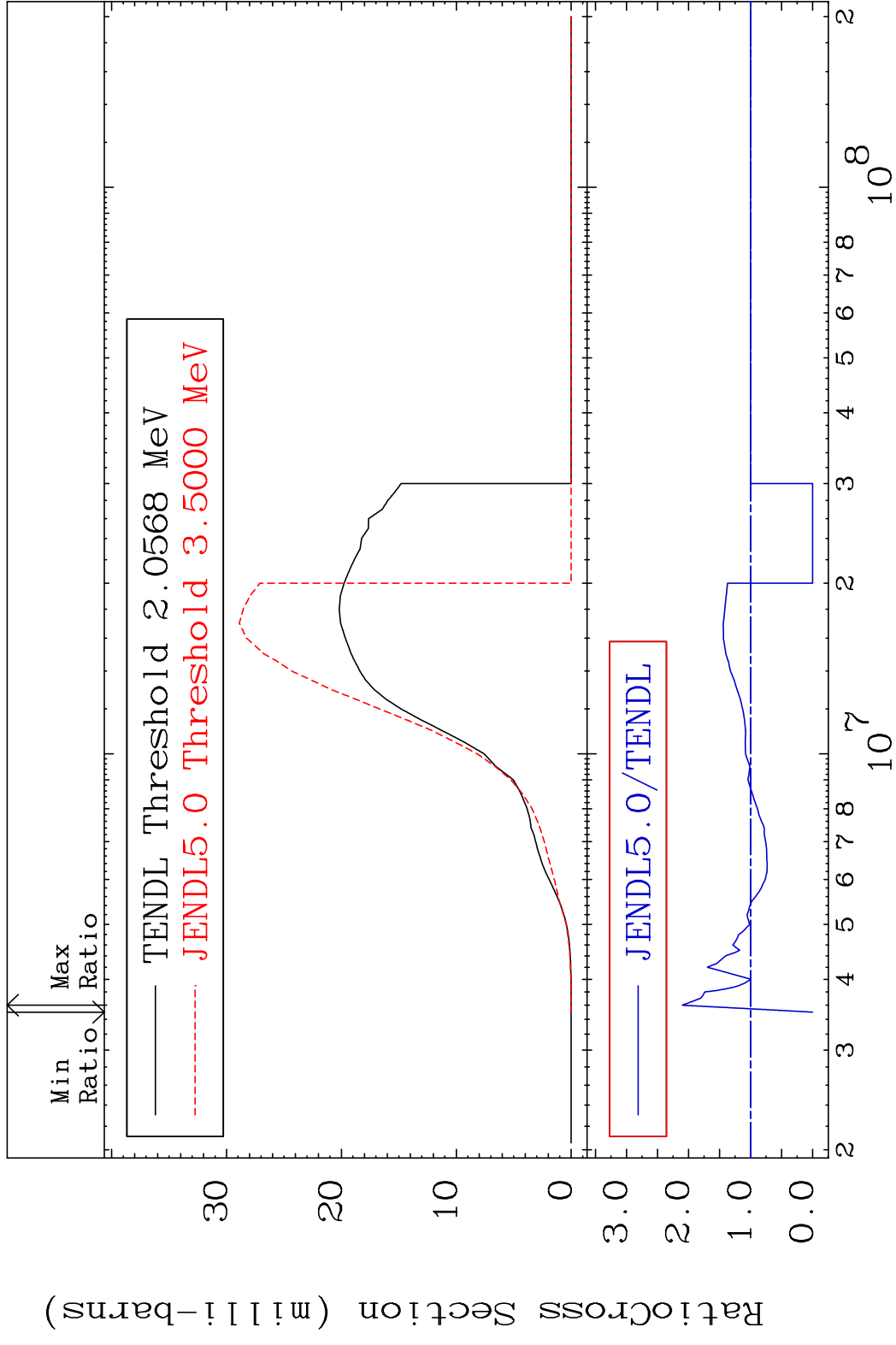


37

Incident Energy (eV)

31-Ga-71

MAT 3131 (n,p) 31-Ga-71
 Cross Section -100.0 To 109.9 %

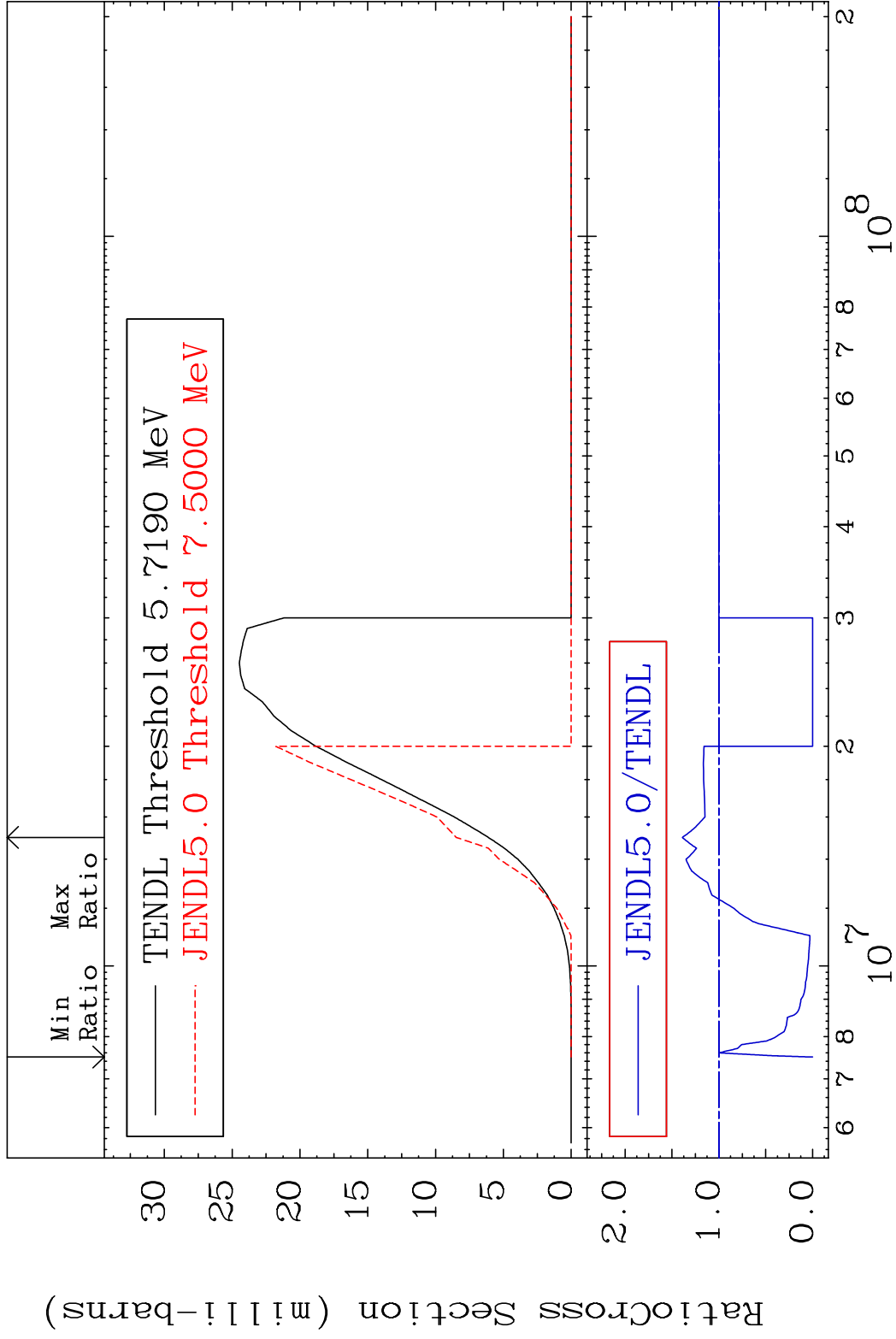


MAT 3131

(n,d)

31-Ga-71

Cross Section -100.0 To 38.92 %



39

Incident Energy (eV)

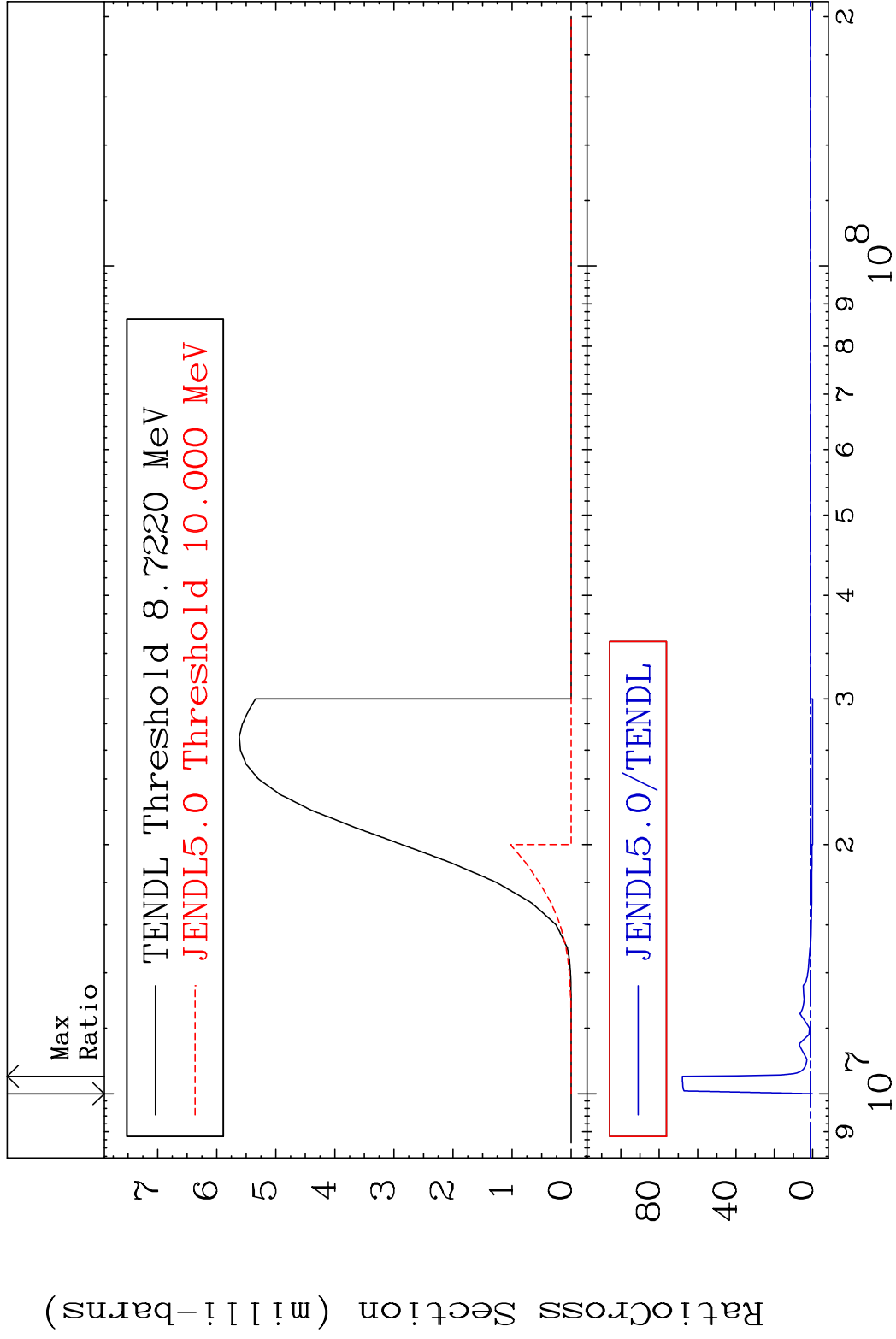
31-Ga-71

MAT 3131

(n, t)

31-Ga-71

Cross Section -100.0 To 6693. %



40

Incident Energy (eV)

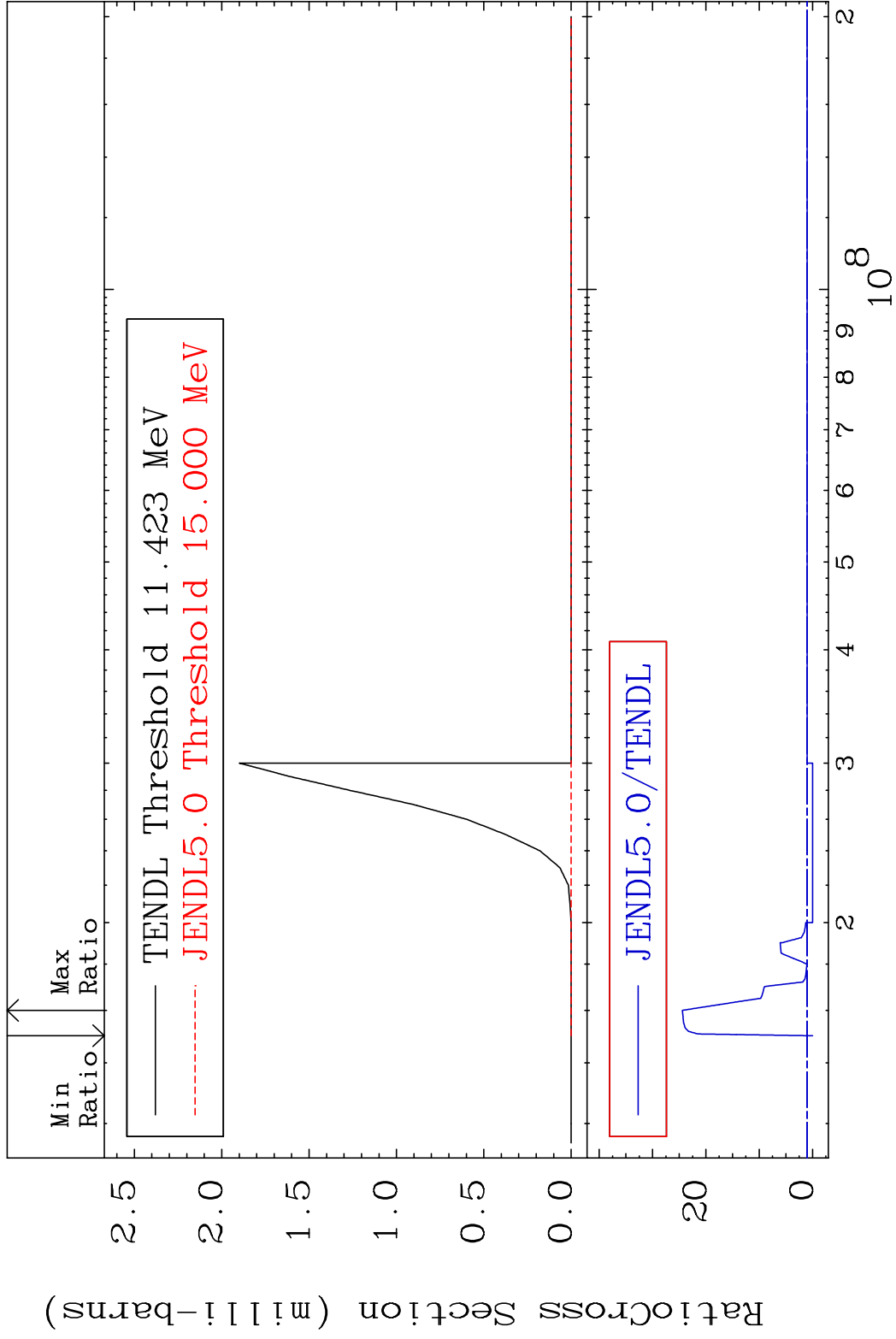
31-Ga-71

MAT 3131

(n, He-3)

31-Ga-71

Cross Section -100.0 To 2341. %

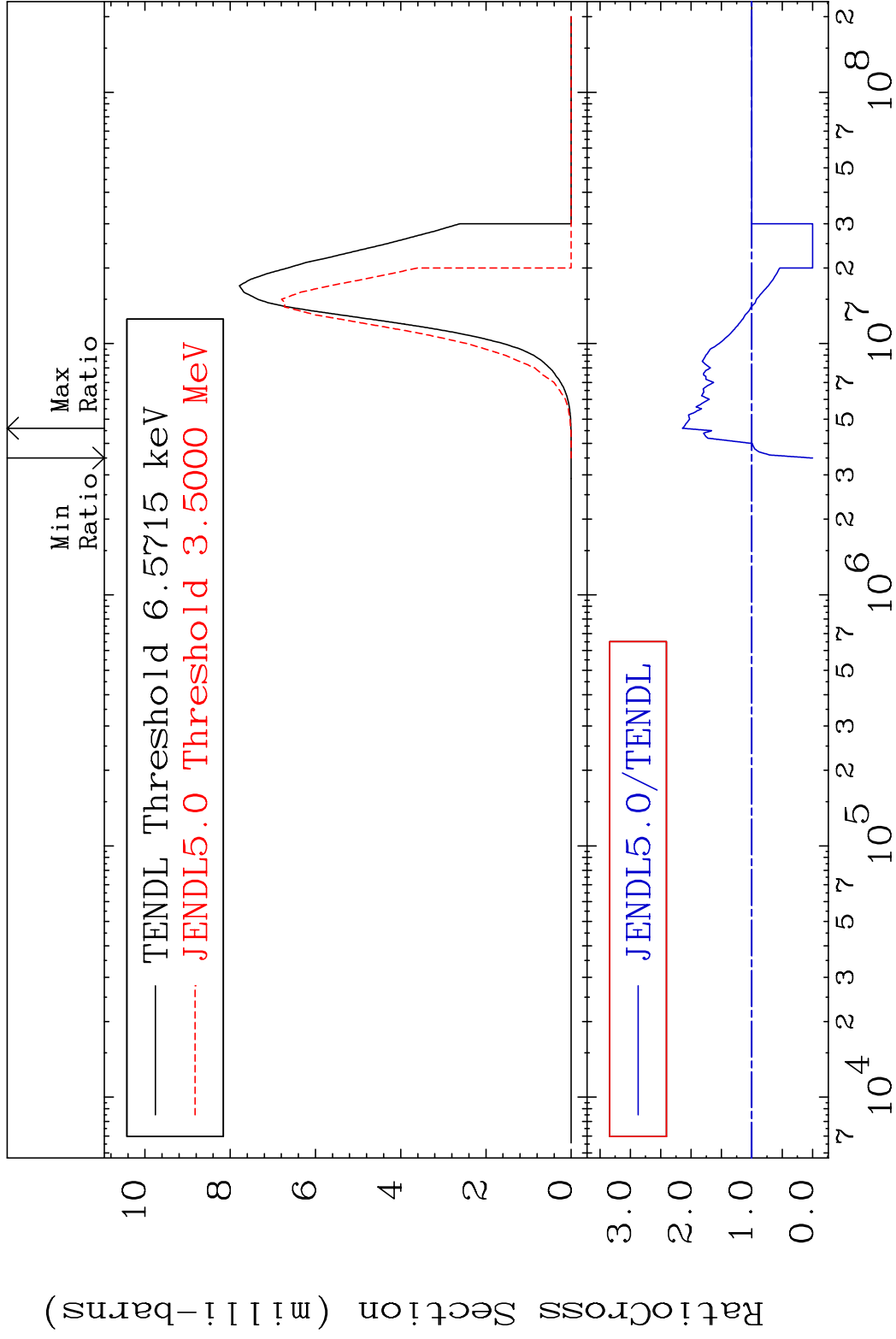


MAT 3131

(n, α)

31-Ga-71

Cross Section -100.0 To 114.4 %



42

Incident Energy (eV)

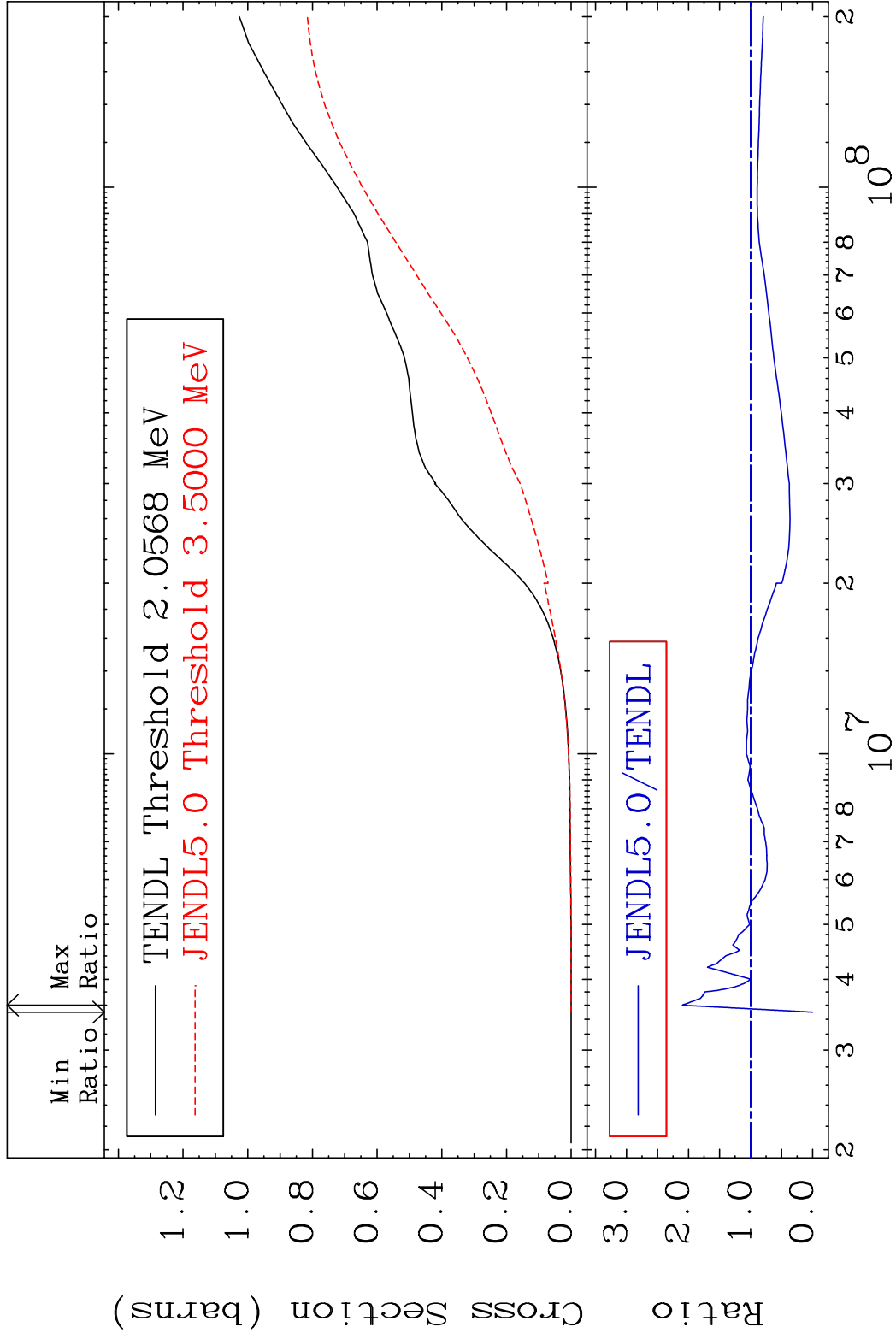
31-Ga-71

MAT 3131

Hydrogen Production

31-Ga-71

Cross Section -100.0 To 109.9 %

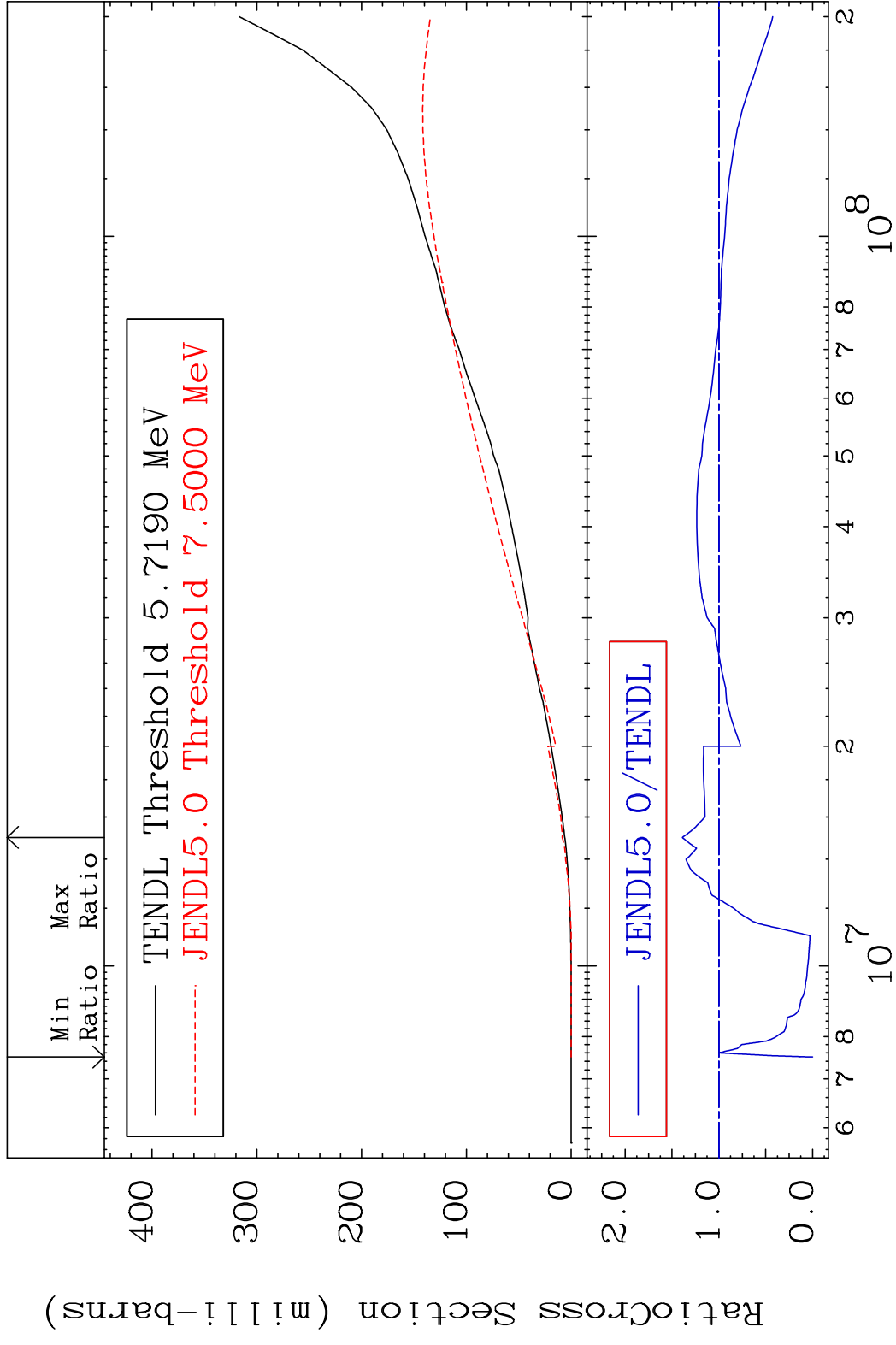


43

Incident Energy (eV)

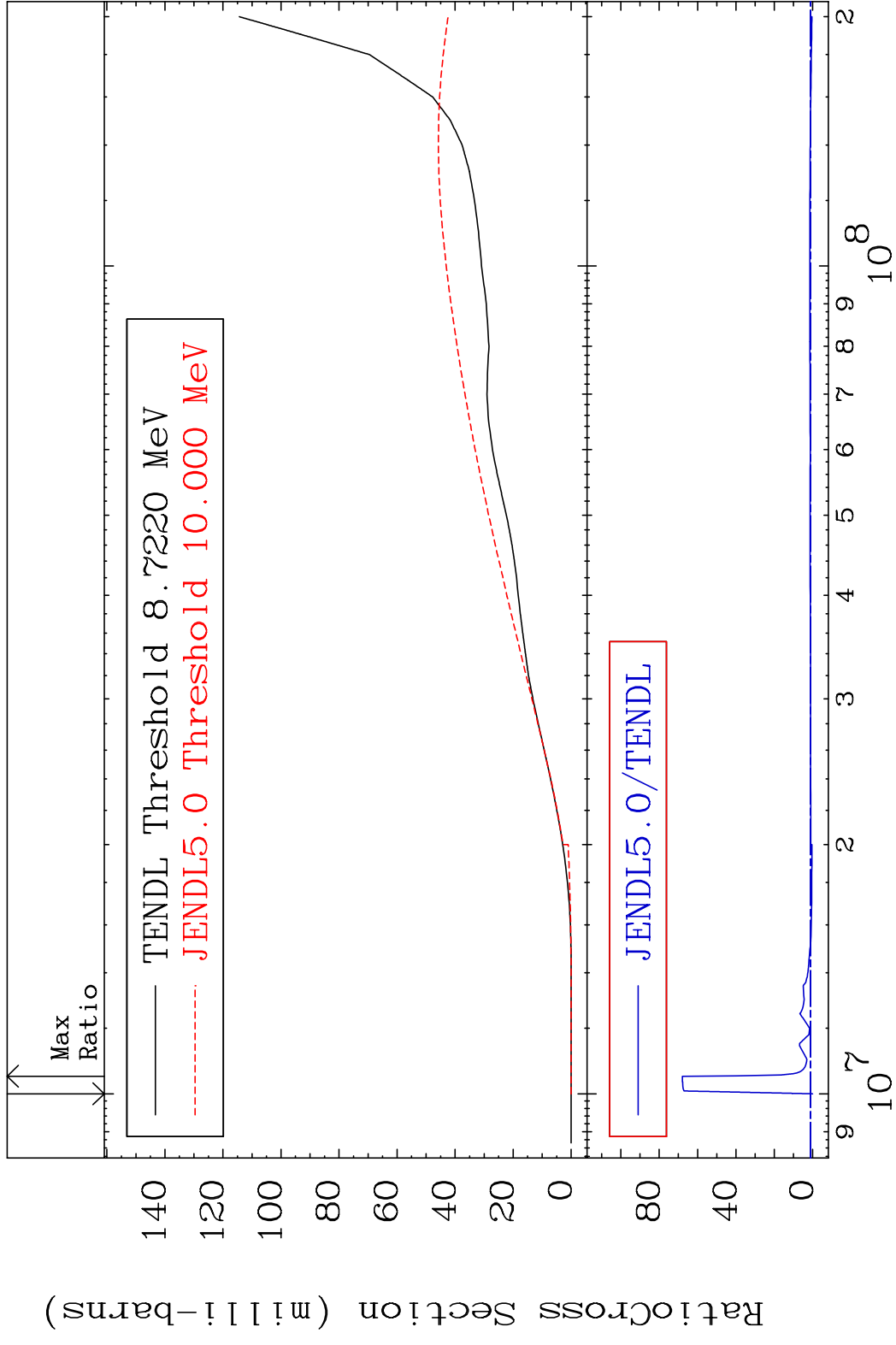
31-Ga-71

MAT 3131 Deuterium Production 31-Ga-71
 Cross Section -100.0 To 38.92 %



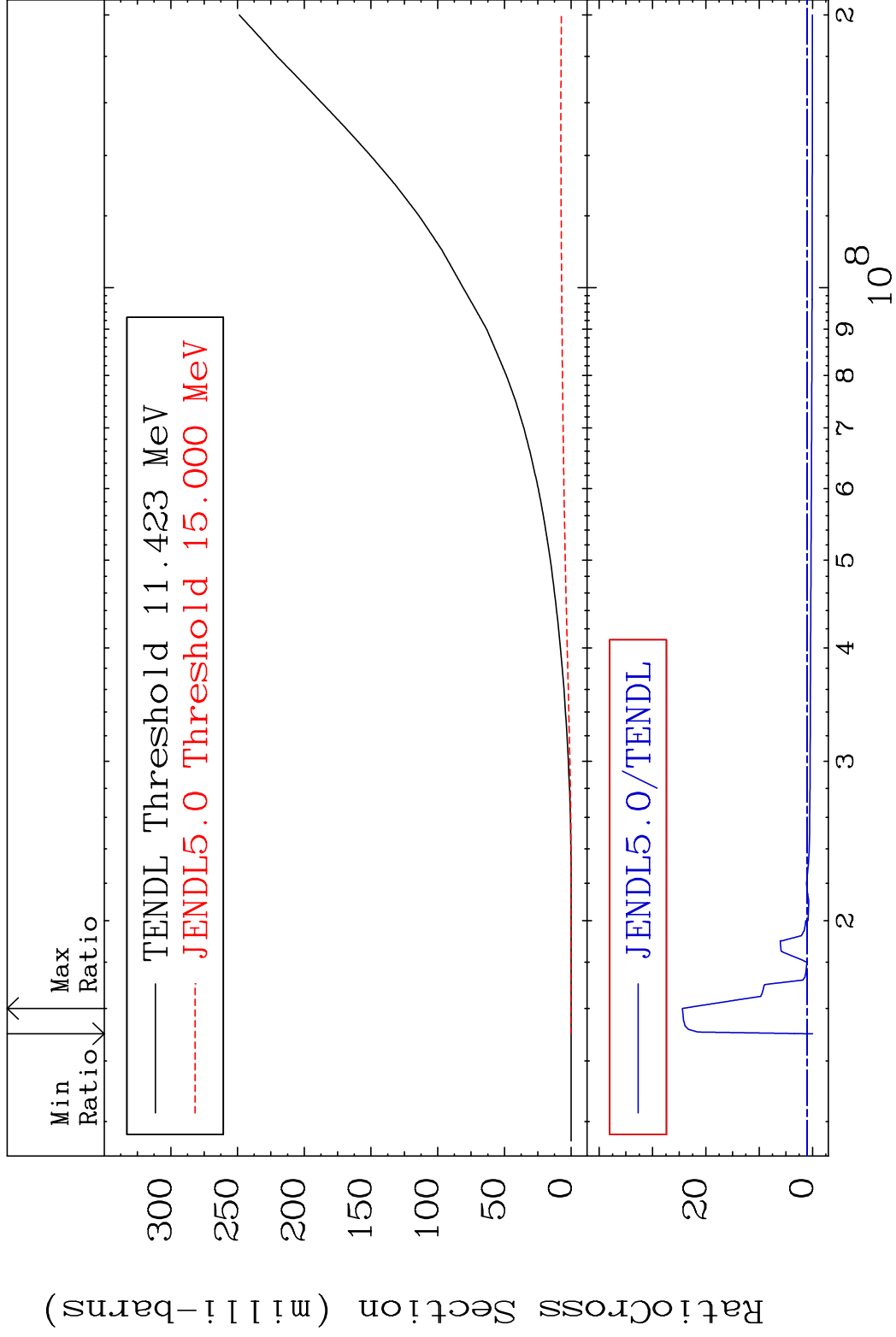
44 Incident Energy (eV) 31-Ga-71

MAT 3131 Tritium Production 31-Ga-71
 Cross Section -100.0 To 6693. %



45 31-Ga-71

Cross Section -100.0 To 2341. %

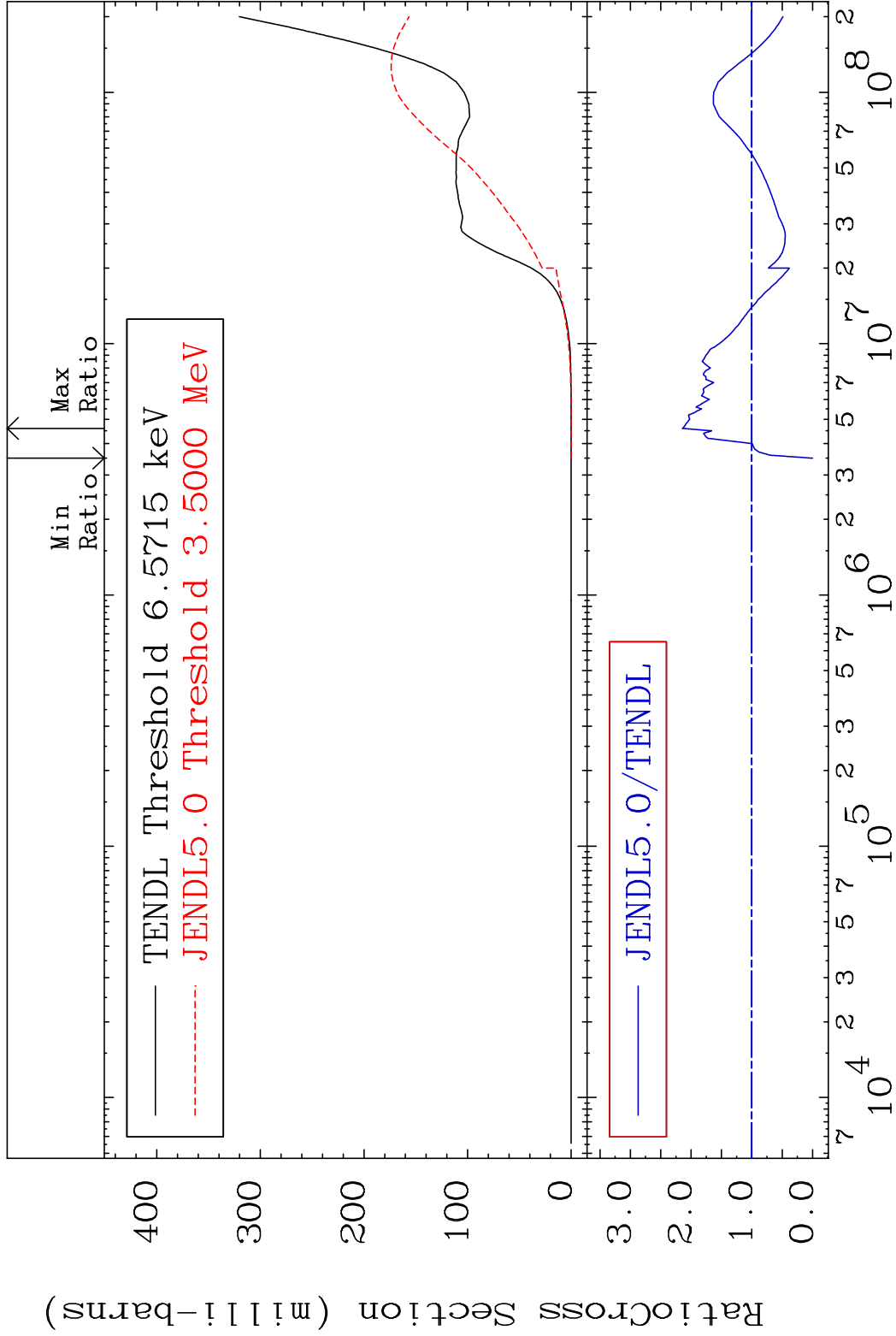


MAT 3131

He-4 Production

31-Ga-71

Cross Section -100.0 To 114.4 %

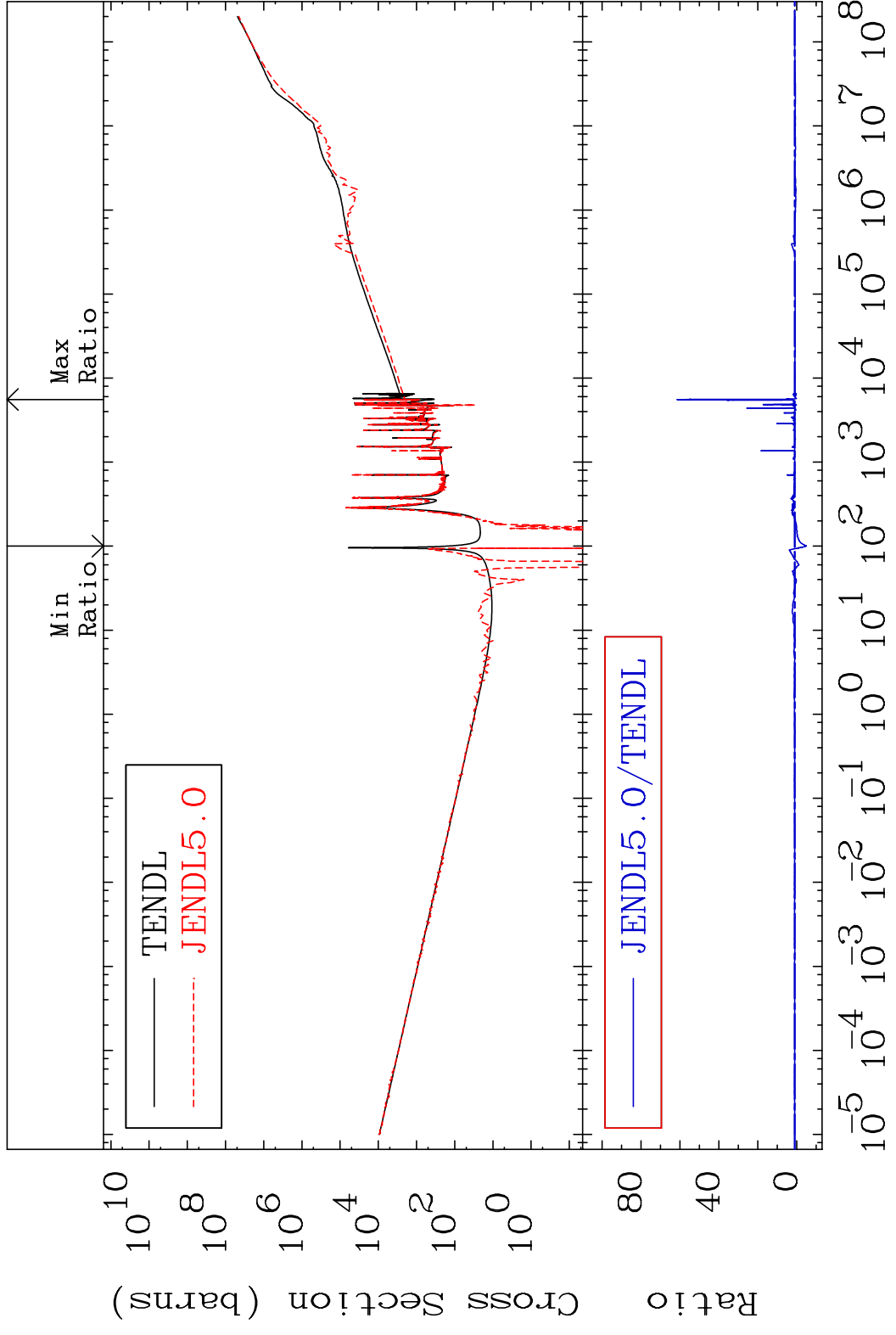


47

Incident Energy (eV)

31-Ga-71

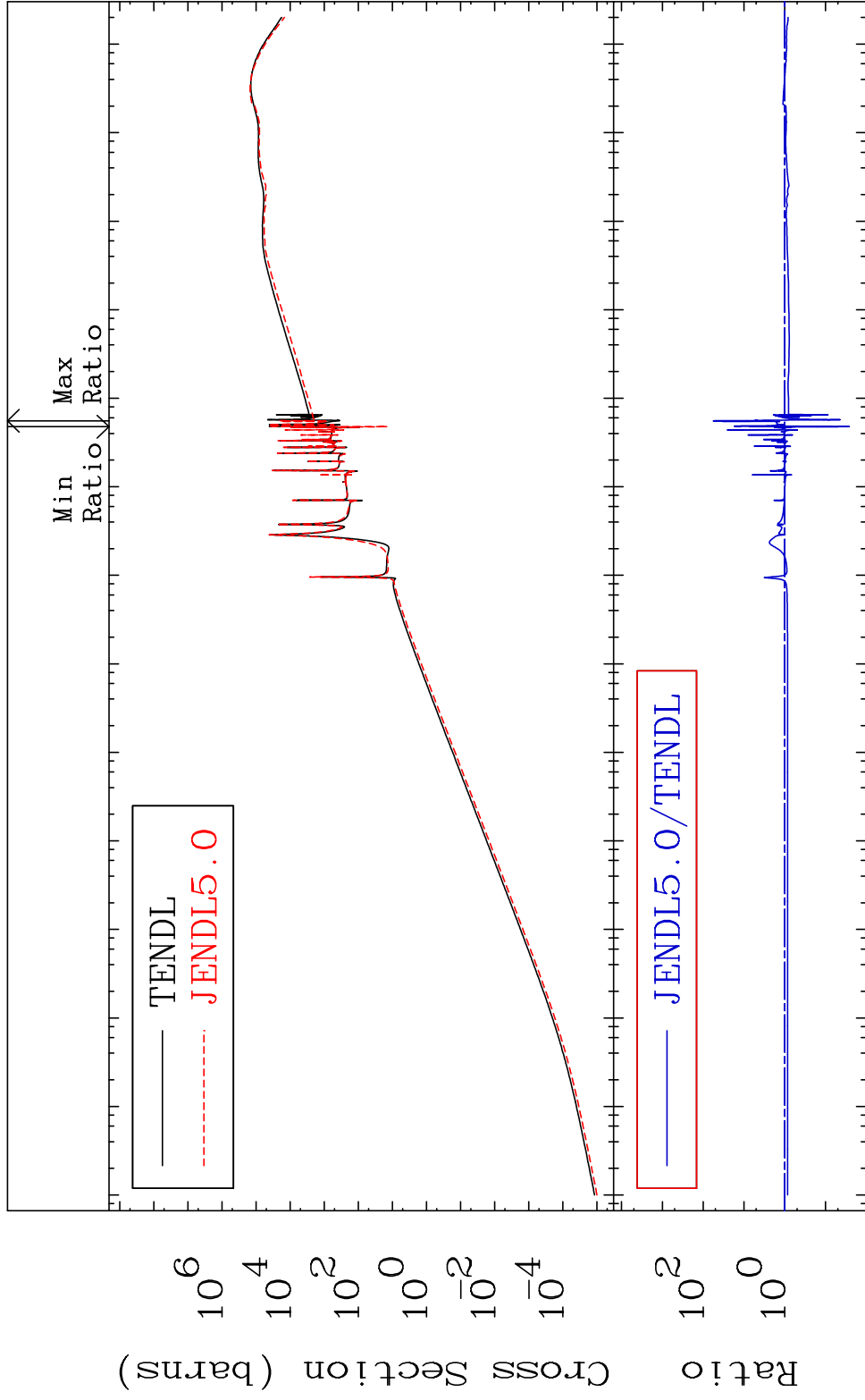
MAT 3131 Kerma total (eV-barns) 31-Ga-71
 Cross Section -603.0 To 6037. %



MAT 3131

Kerma elastic
Cross Section -97.38 To 5572. %

31-Ga-71



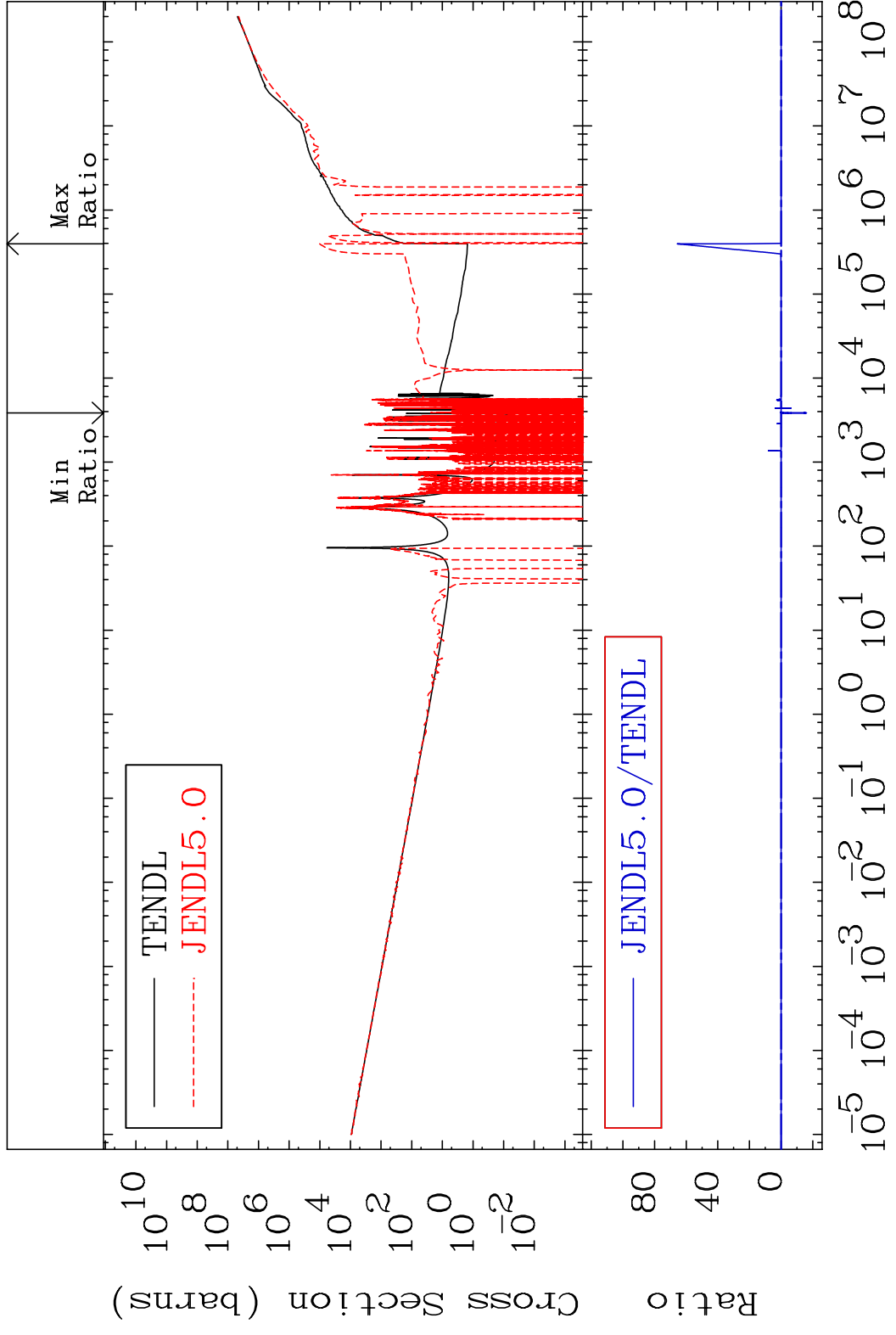
Ratio

49

Incident Energy (eV)

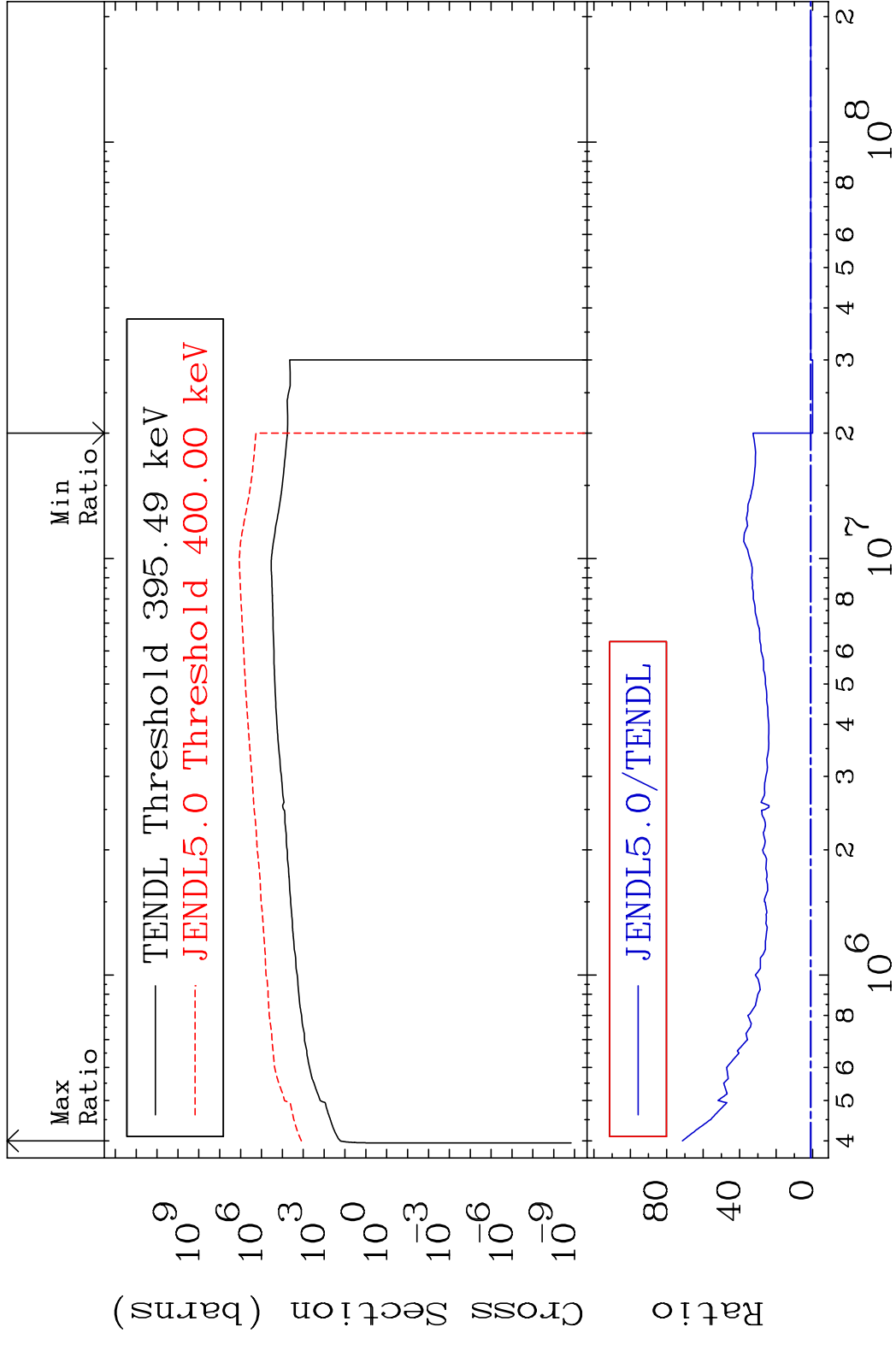
31-Ga-71

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

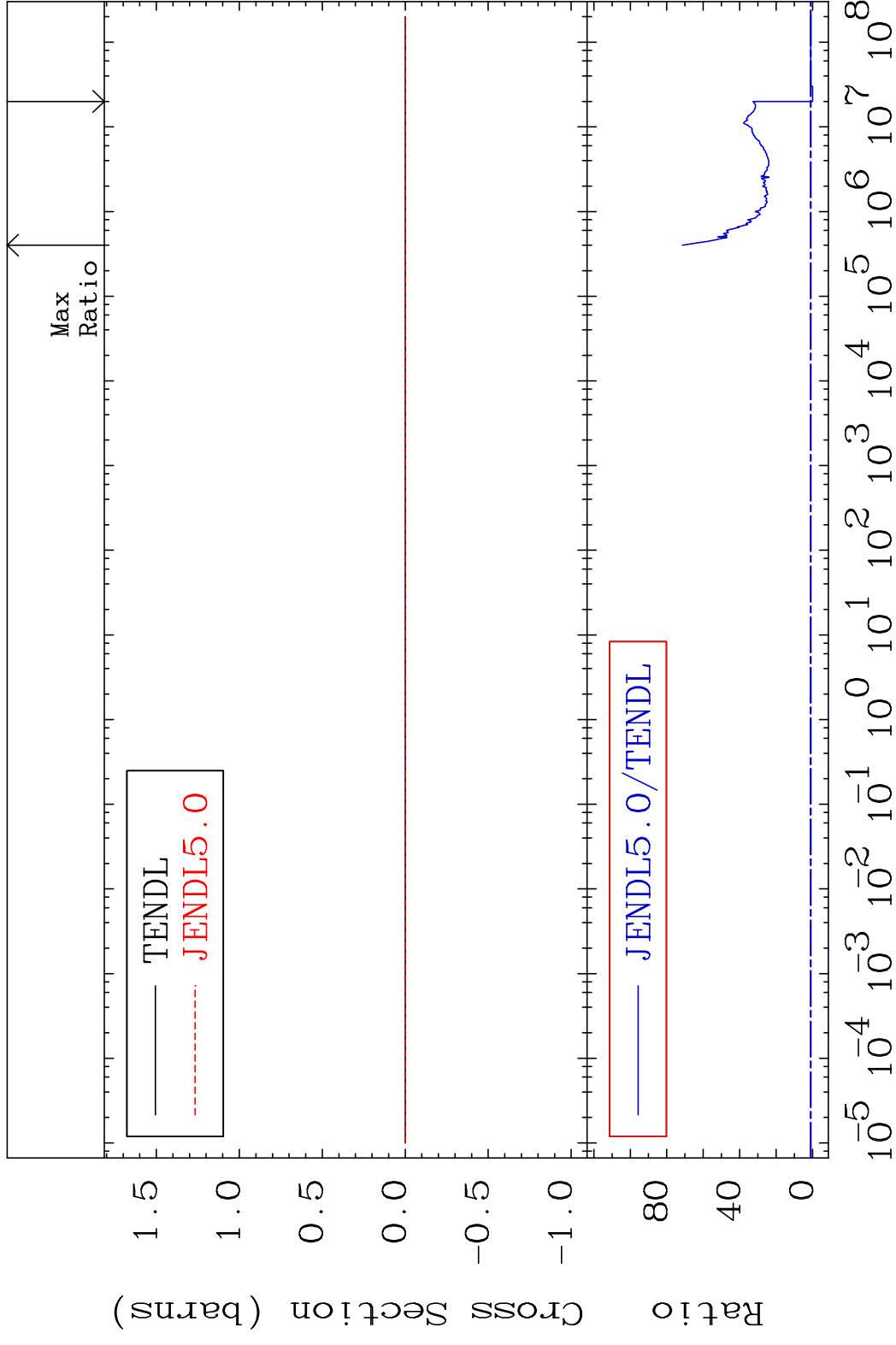


50 Incident Energy (eV) 31-Ga-71

MAT 3131 Kerma inelastic (mt51-91) 31-Ga-71
 Cross Section -100.0 To 7043. %



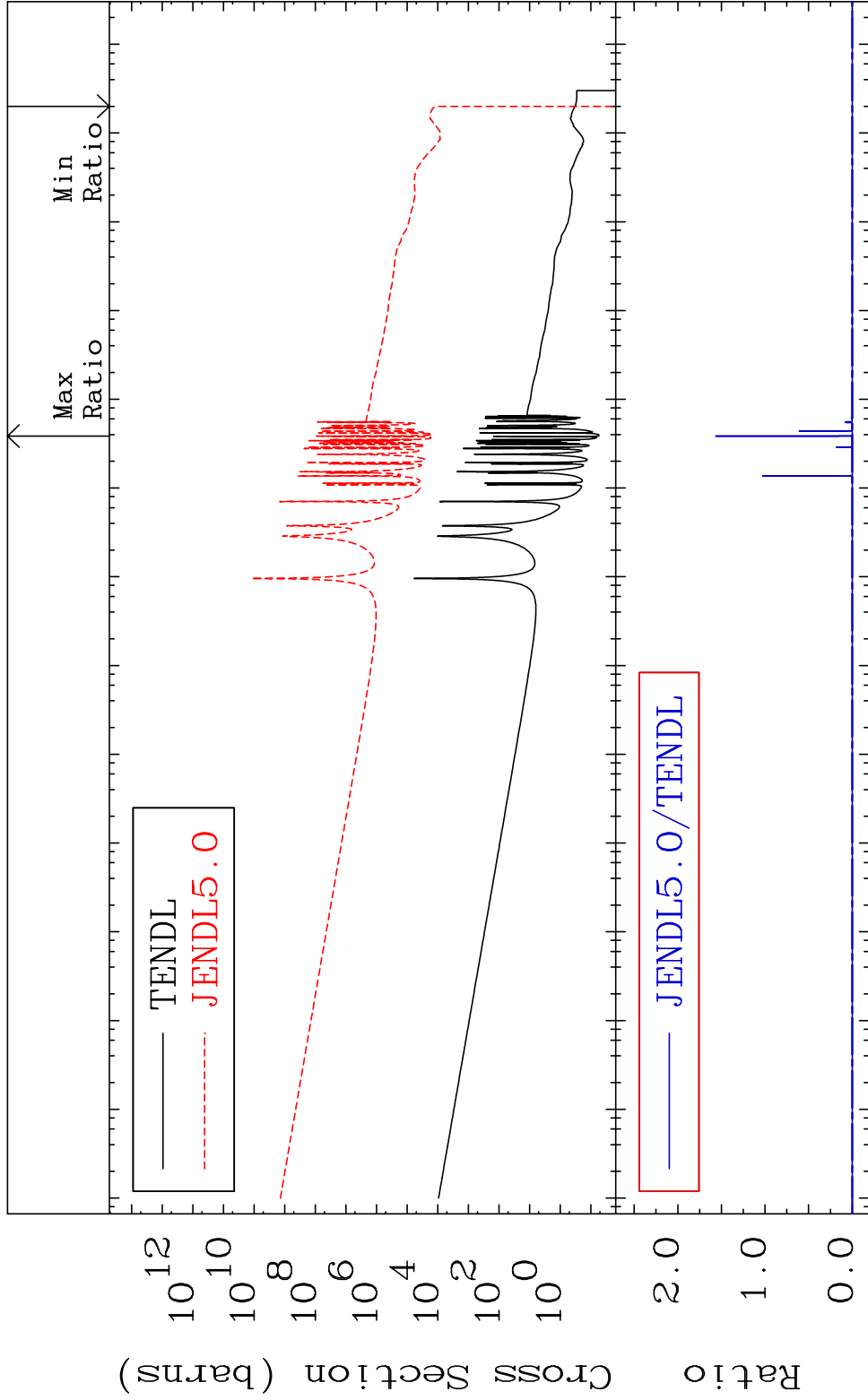
MAT 3131 Kerma fission (mt18 or mt19-20-21-38) 31-Ga-71
 Cross Section -100.0 To 7043. %



MAT 3131

Kerma capture (mt102) 31-Ga-71

Cross Section -100.0 To 9999. %

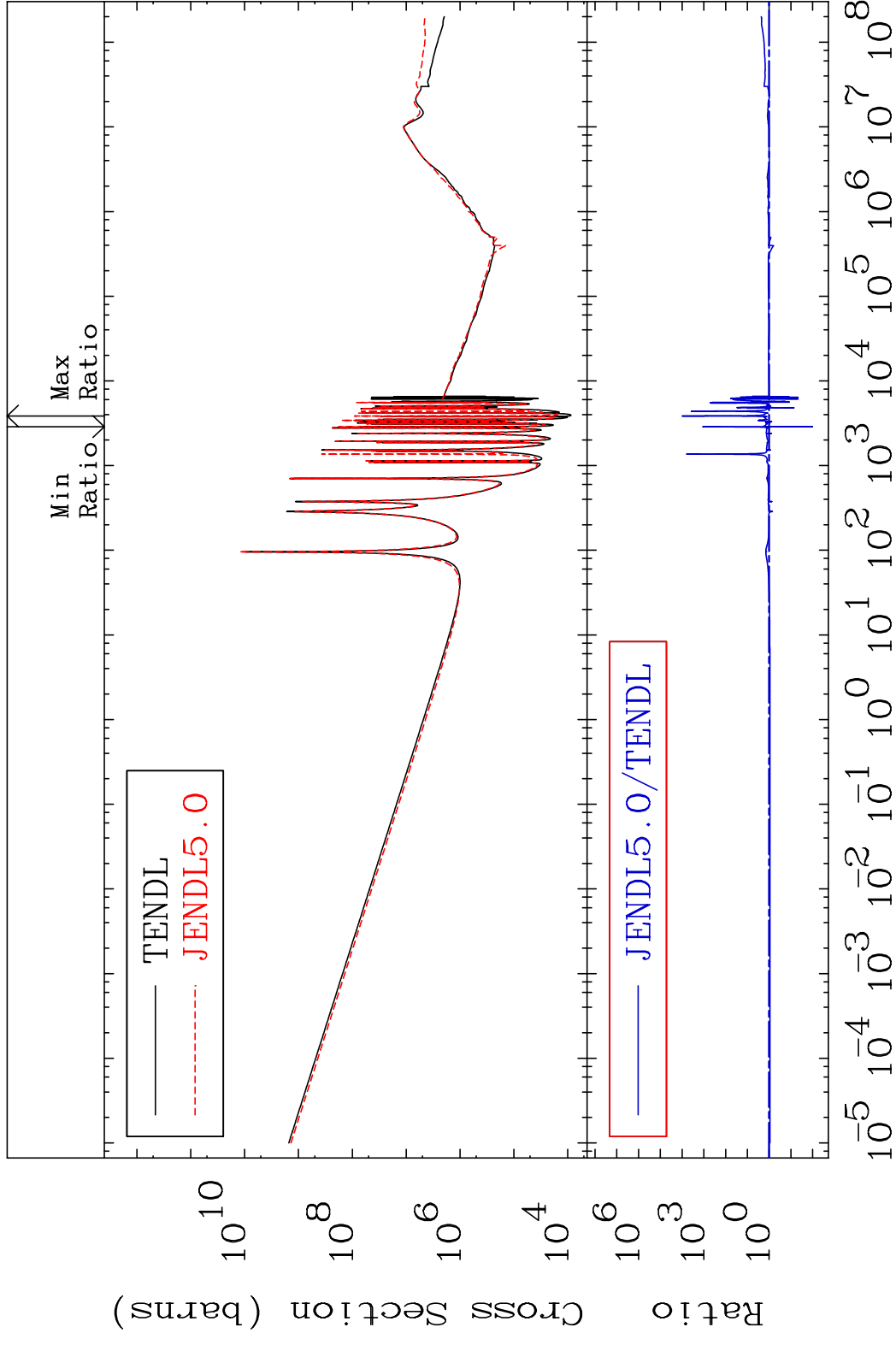


53

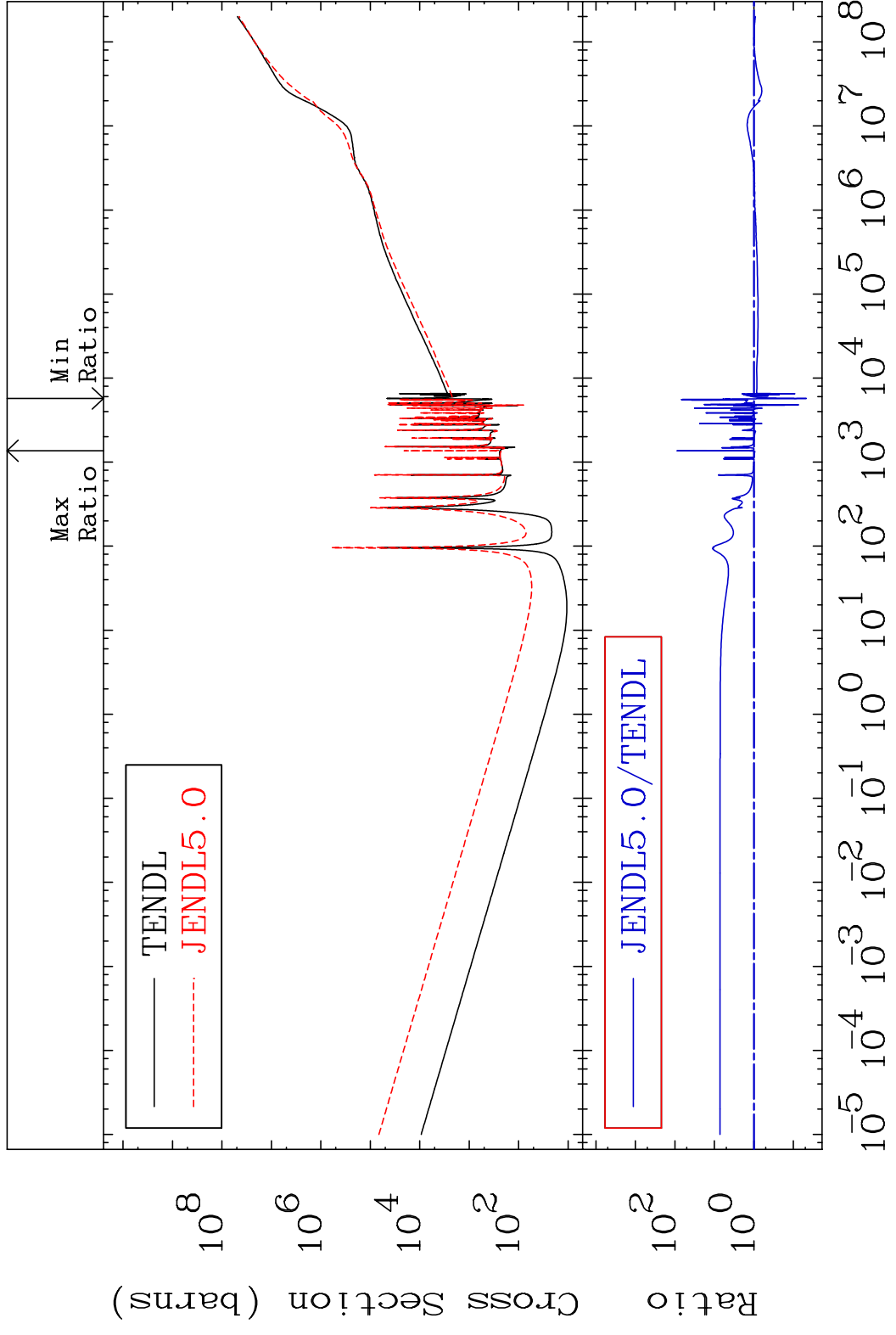
Incident Energy (eV)

31-Ga-71

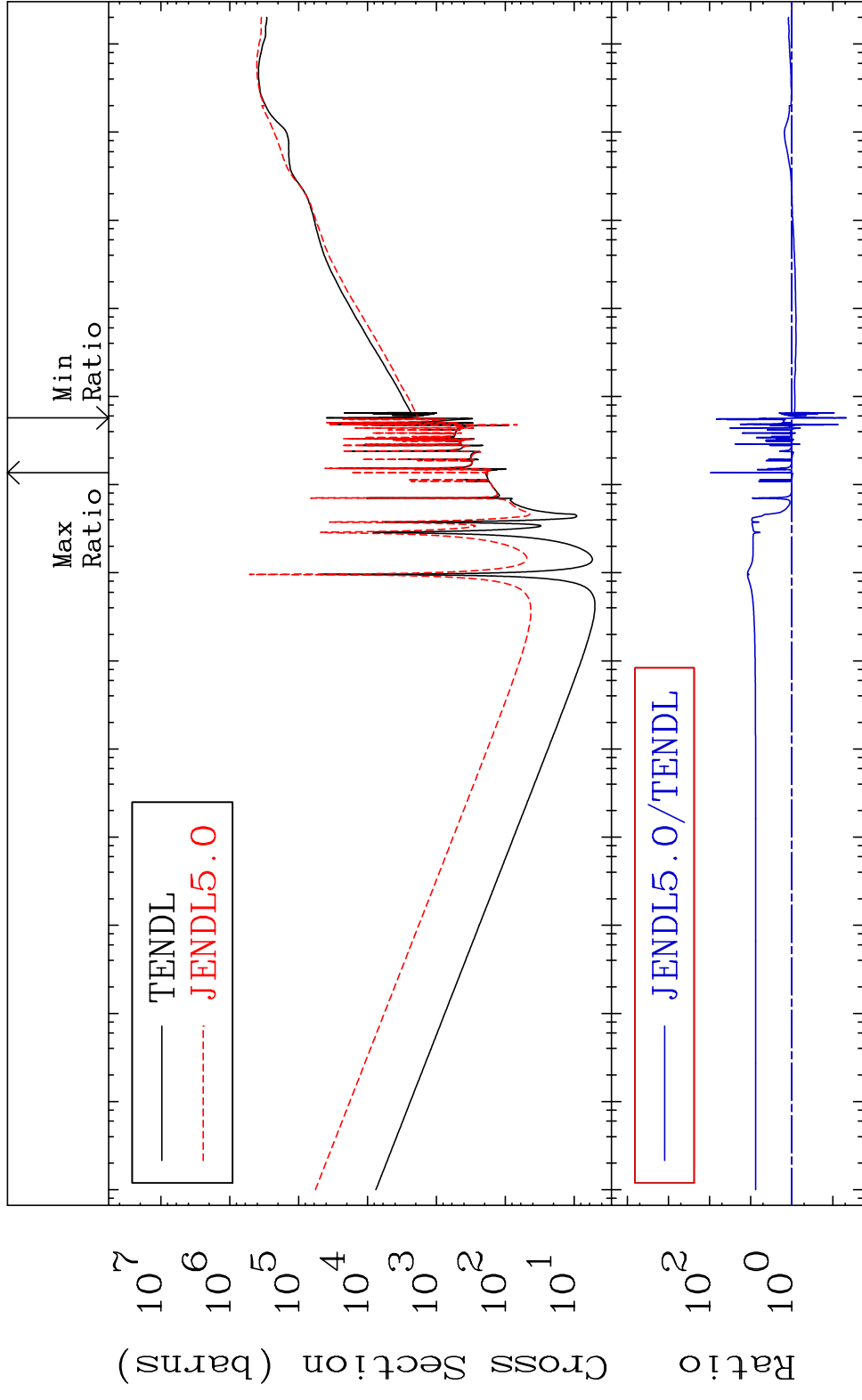
MAT 3131 Total photon (eV-barns) 31-Ga-71
 Cross Section -98.99 To 9999. %



MAT 3131 Total kinematic kerma (high limit) 31-Ga-71
 Cross Section -95.32 To 8646. %



MAT 3131 Dpa total (eV-barns) 31-Ga-71
 Cross Section -95.32 To 9266. %

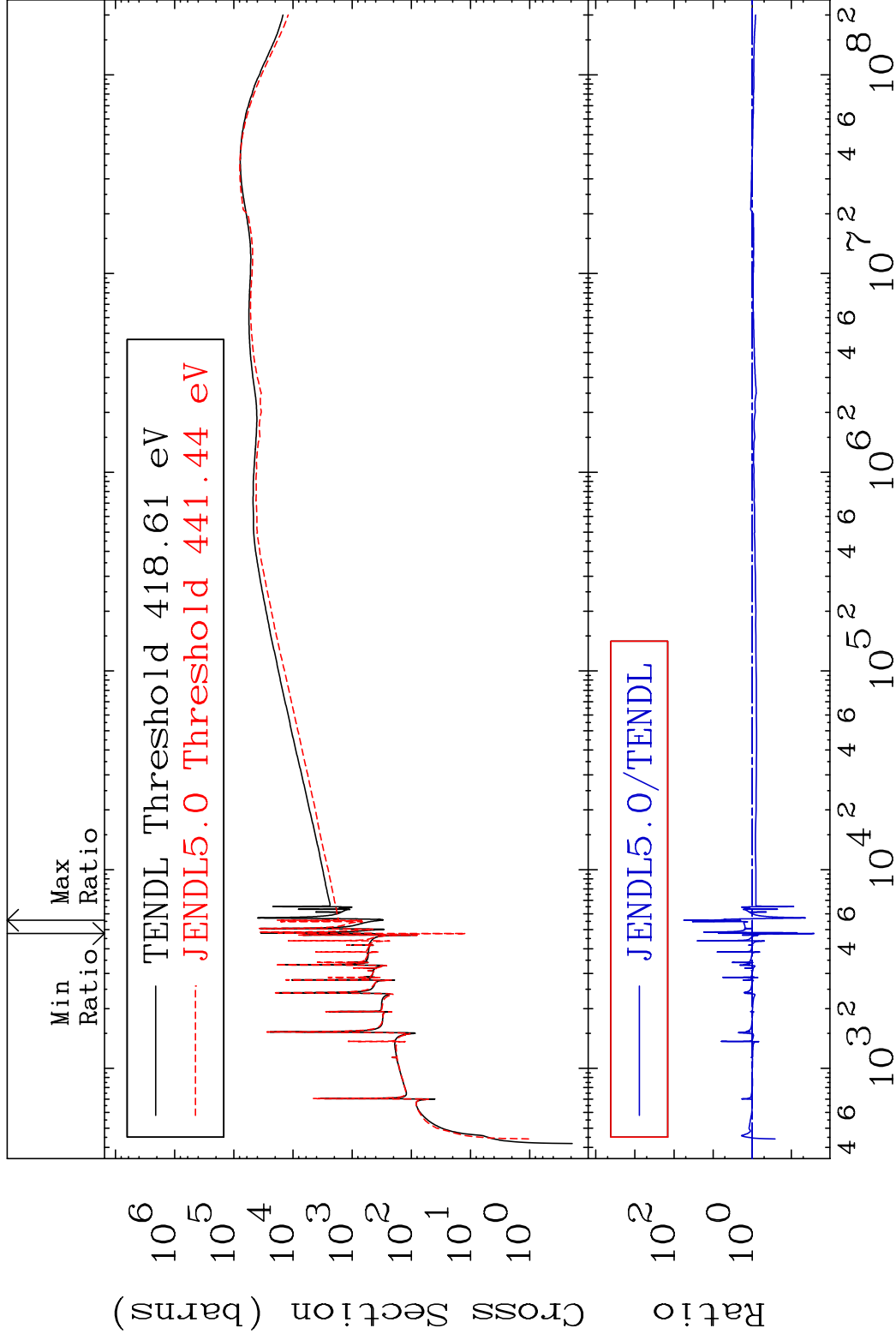


MAT 3131

Dpa elastic (mt2)

31-Ga-71

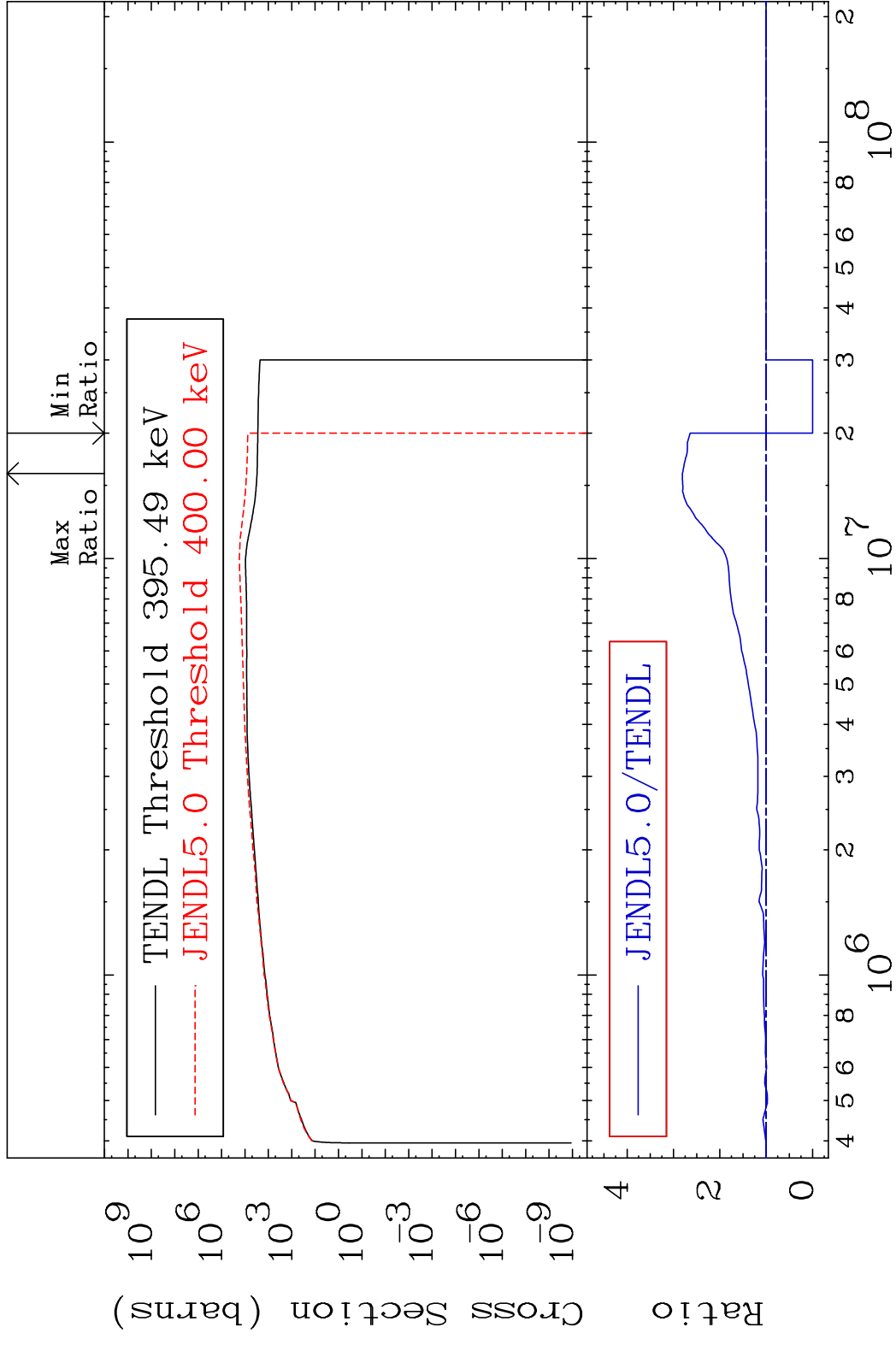
Cross Section -97.38 To 5564. %



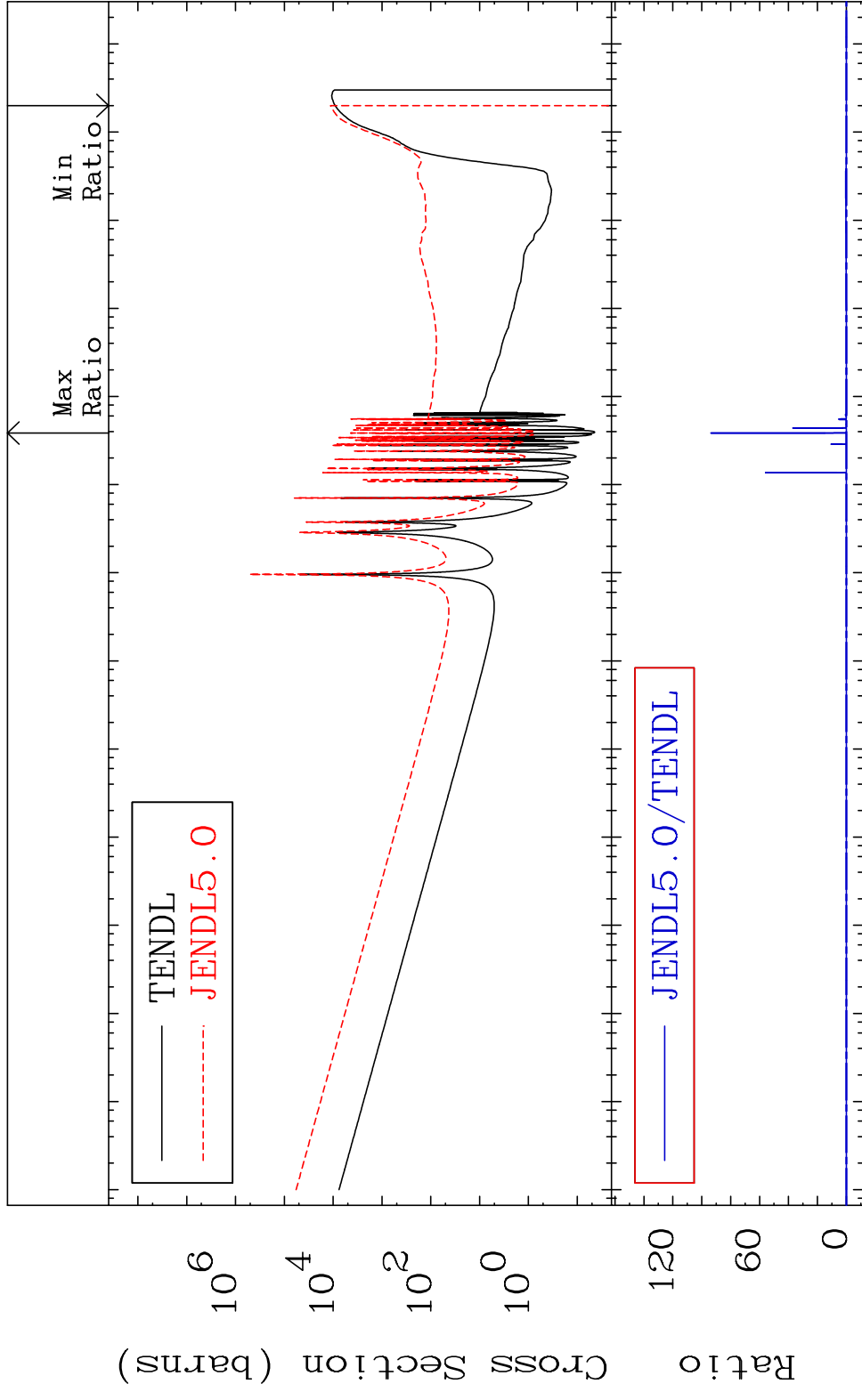
57

Incident Energy (eV)

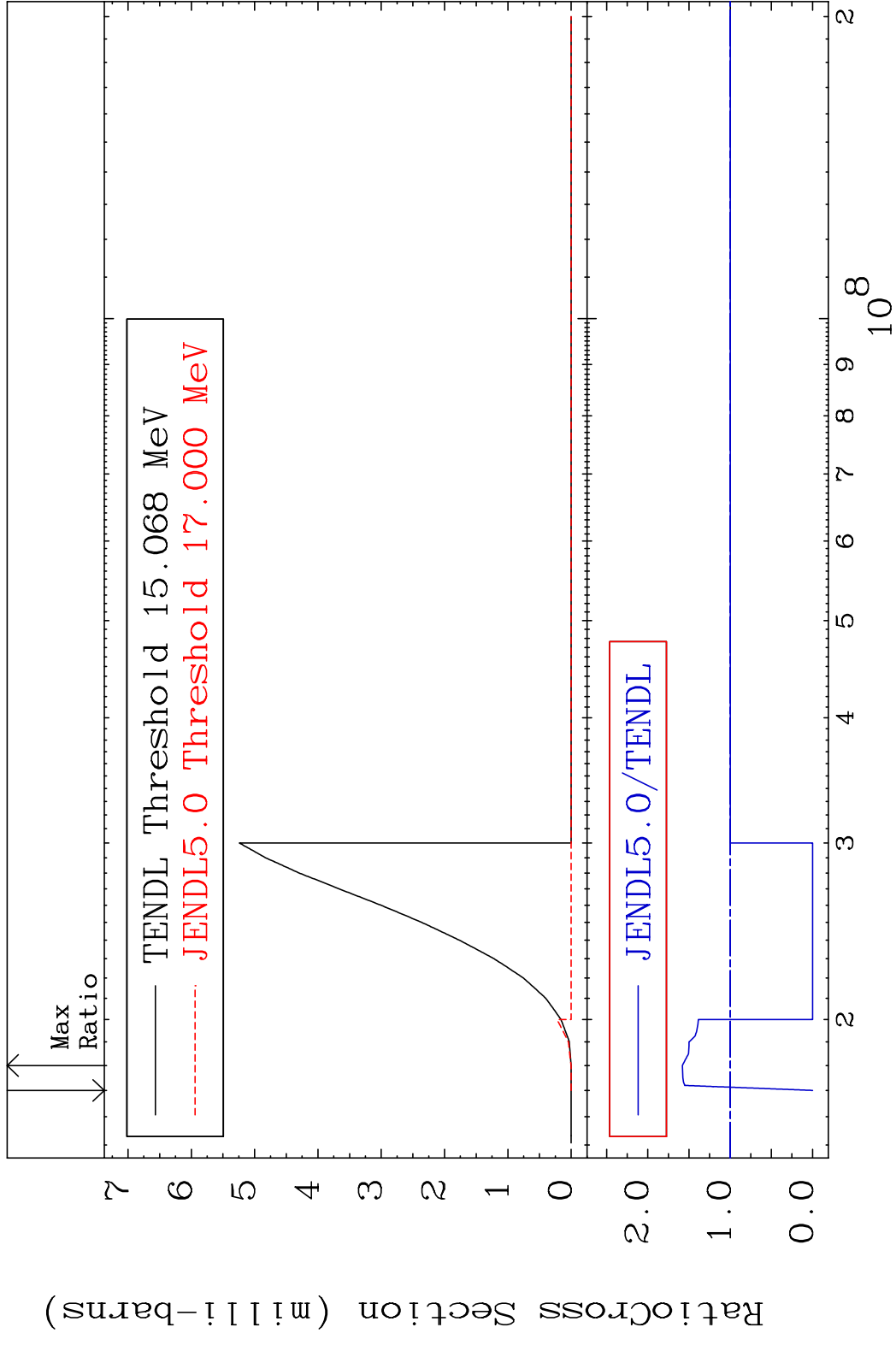
31-Ga-71



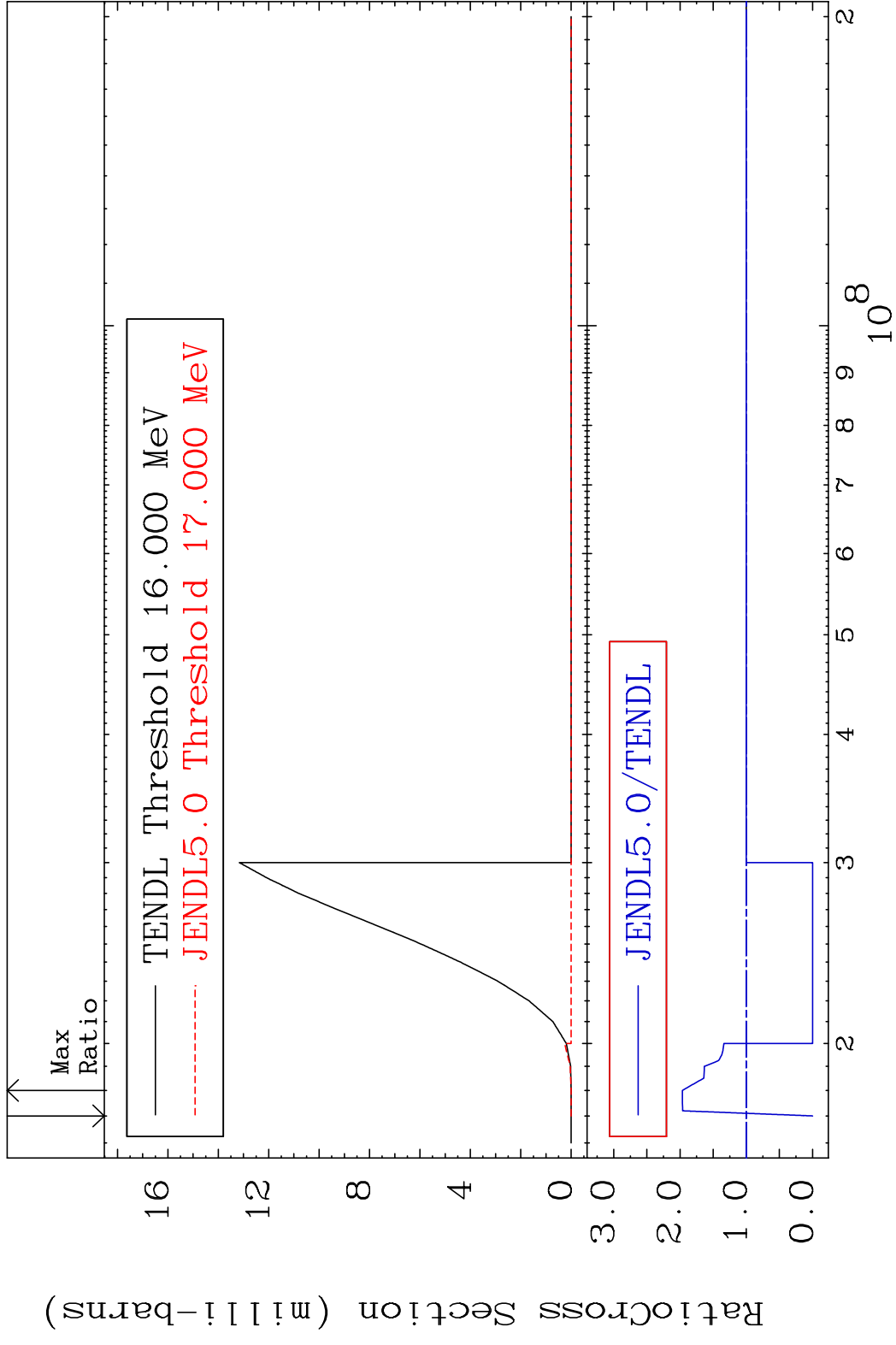
MAT 3131 Dpa disappearance (mt102 -120) 31-Ga-71
 Cross Section -100.0 To 9999. %



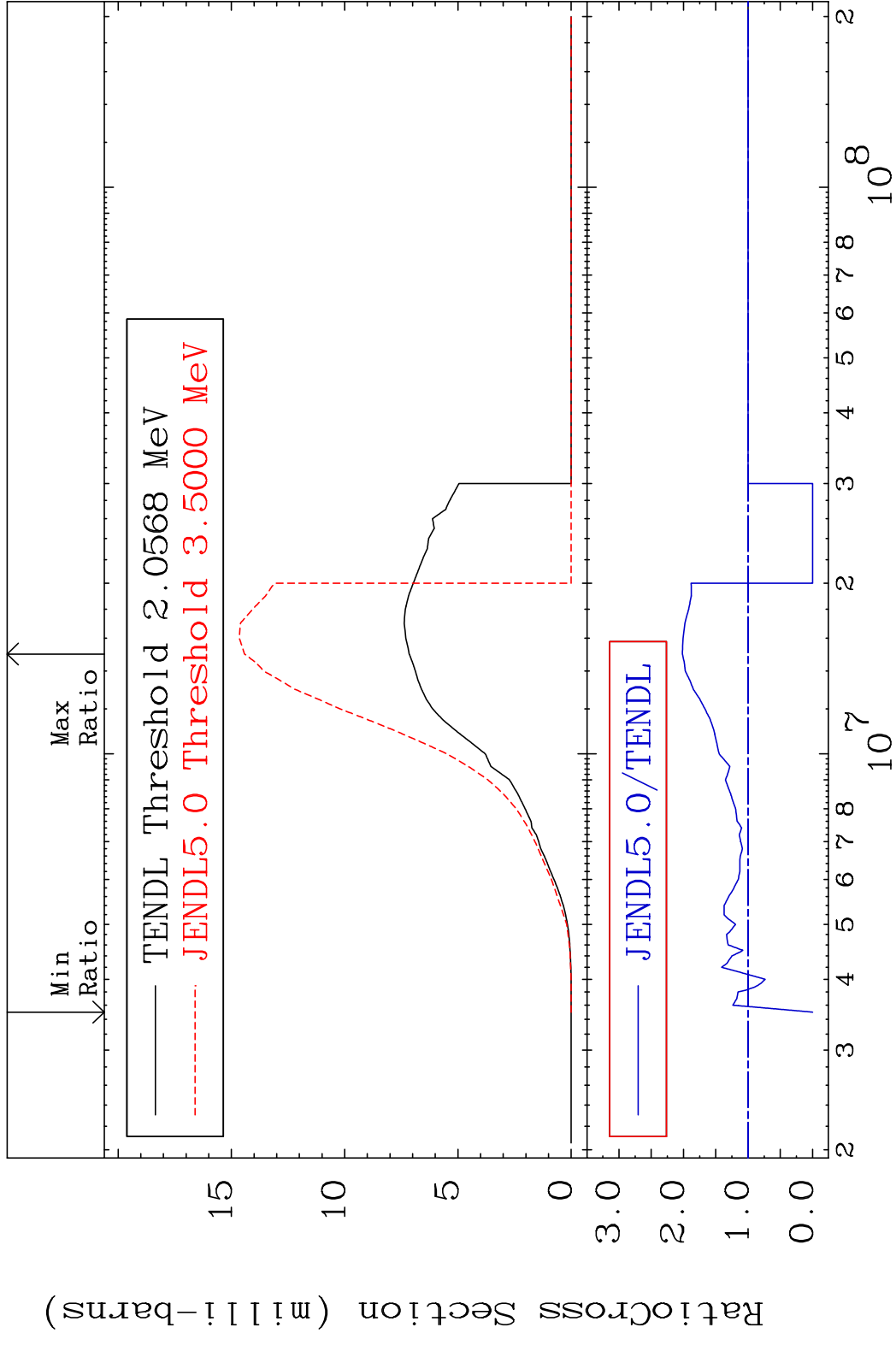
MAT 3131 (n, n') d:30-Zn-69g 31-Ga-71
 Radionuclide Production Cross Section 180.01 dth 58.07 %



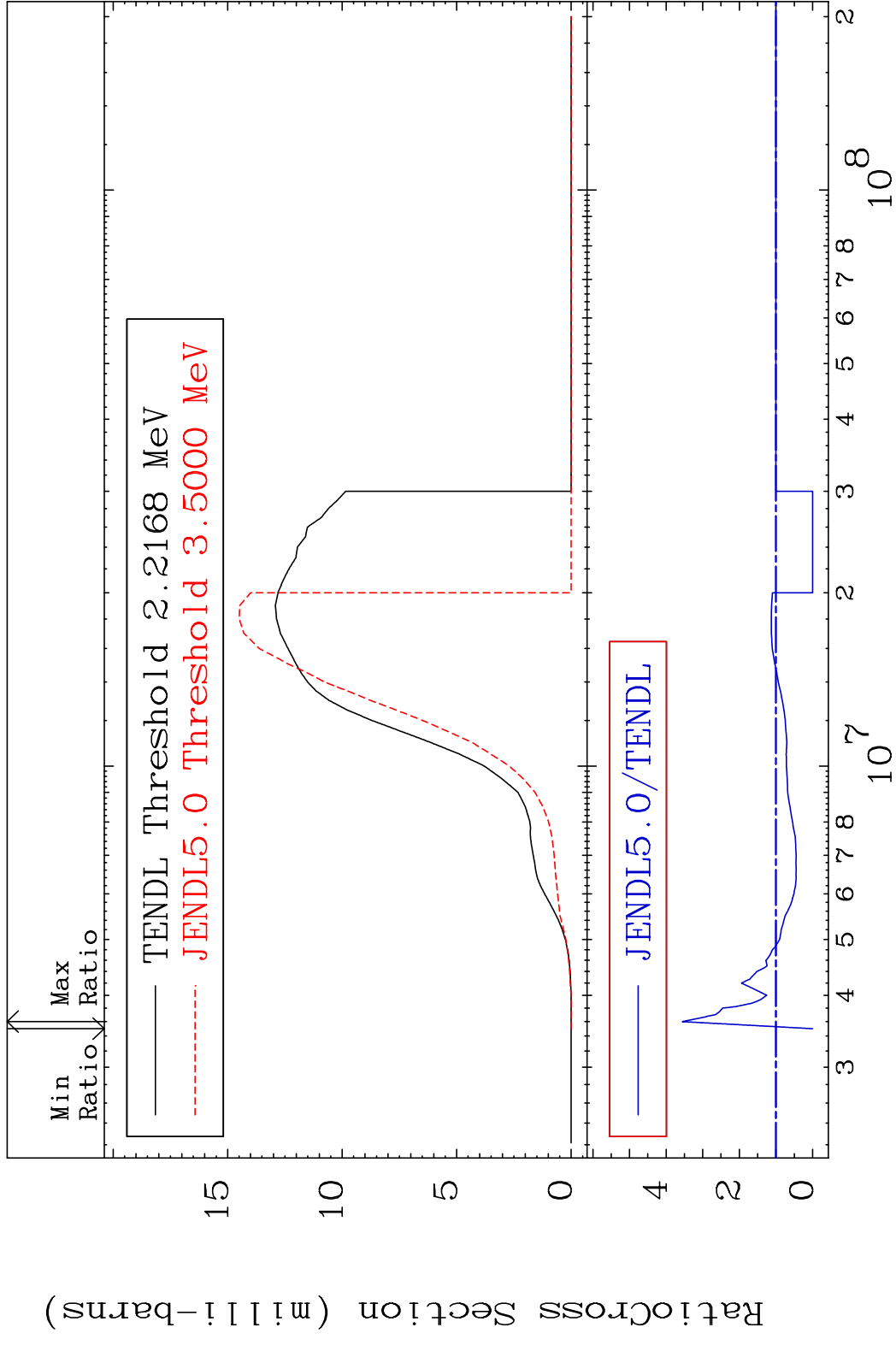
MAT 3131 (n, n') d:30-Zn-69m1 31-Ga-71
 Radionuclide Production Cross Section 180.0 dth 96.49 %

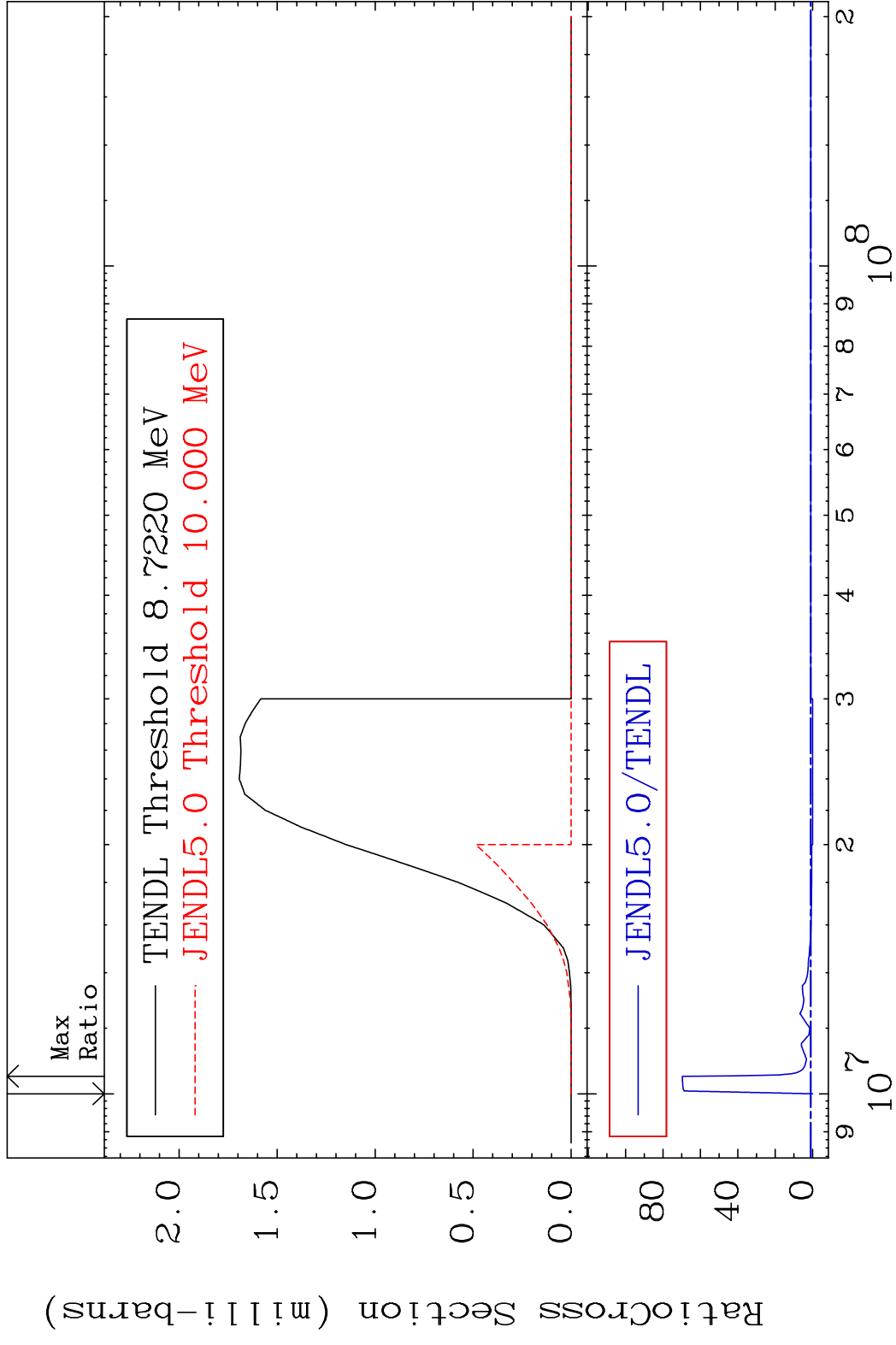


MAT 3131 (n,p):30-Zn-71g 31-Ga-71
 Radionuclide Production Cross Section 100.0 %
 Ratio 101.8 %

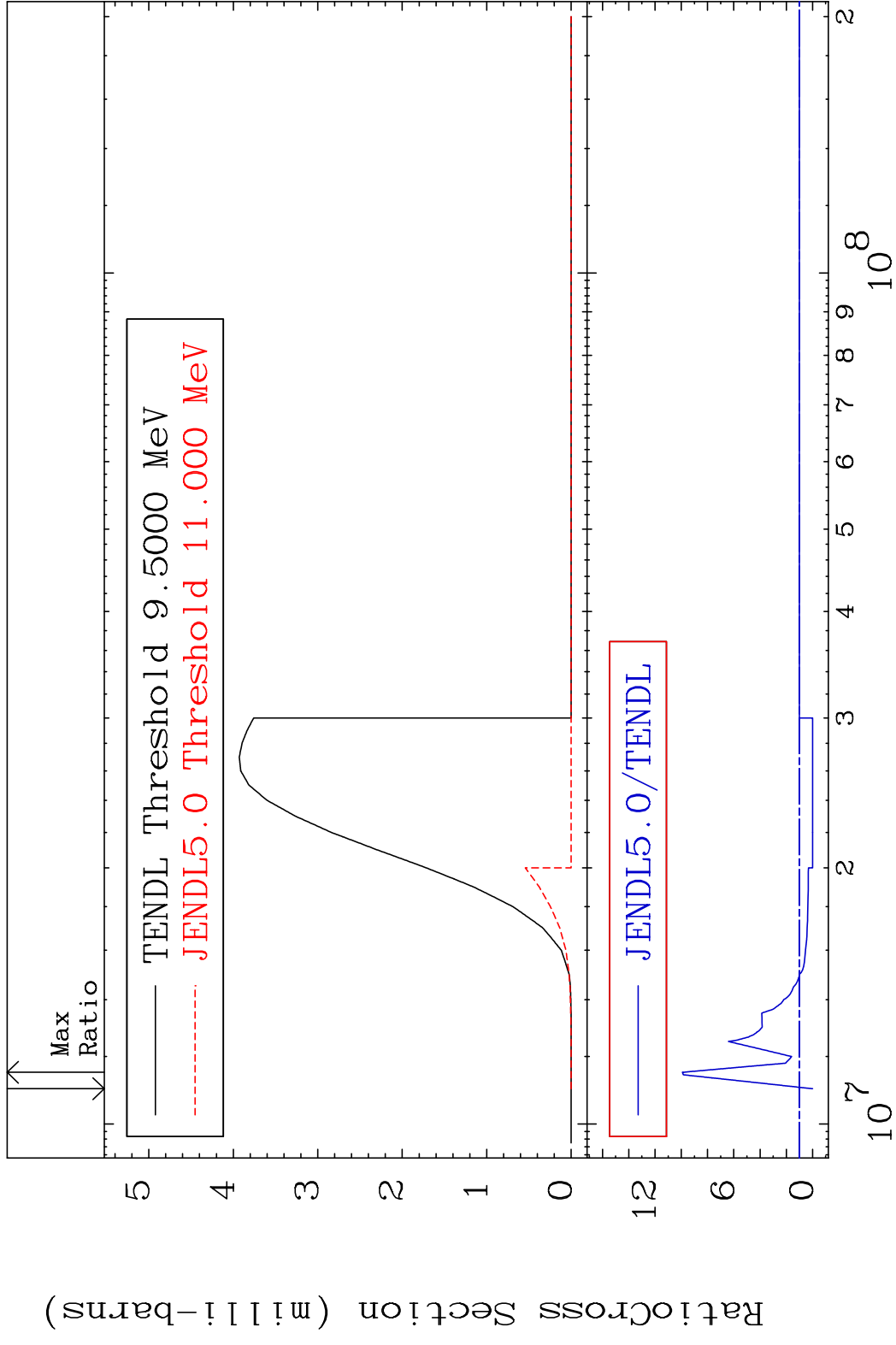


MAT 3131 (n,p):30-Zn-71m1 31-Ga-71
 Radionuclide Production Cross Section Ratio 255.6 %



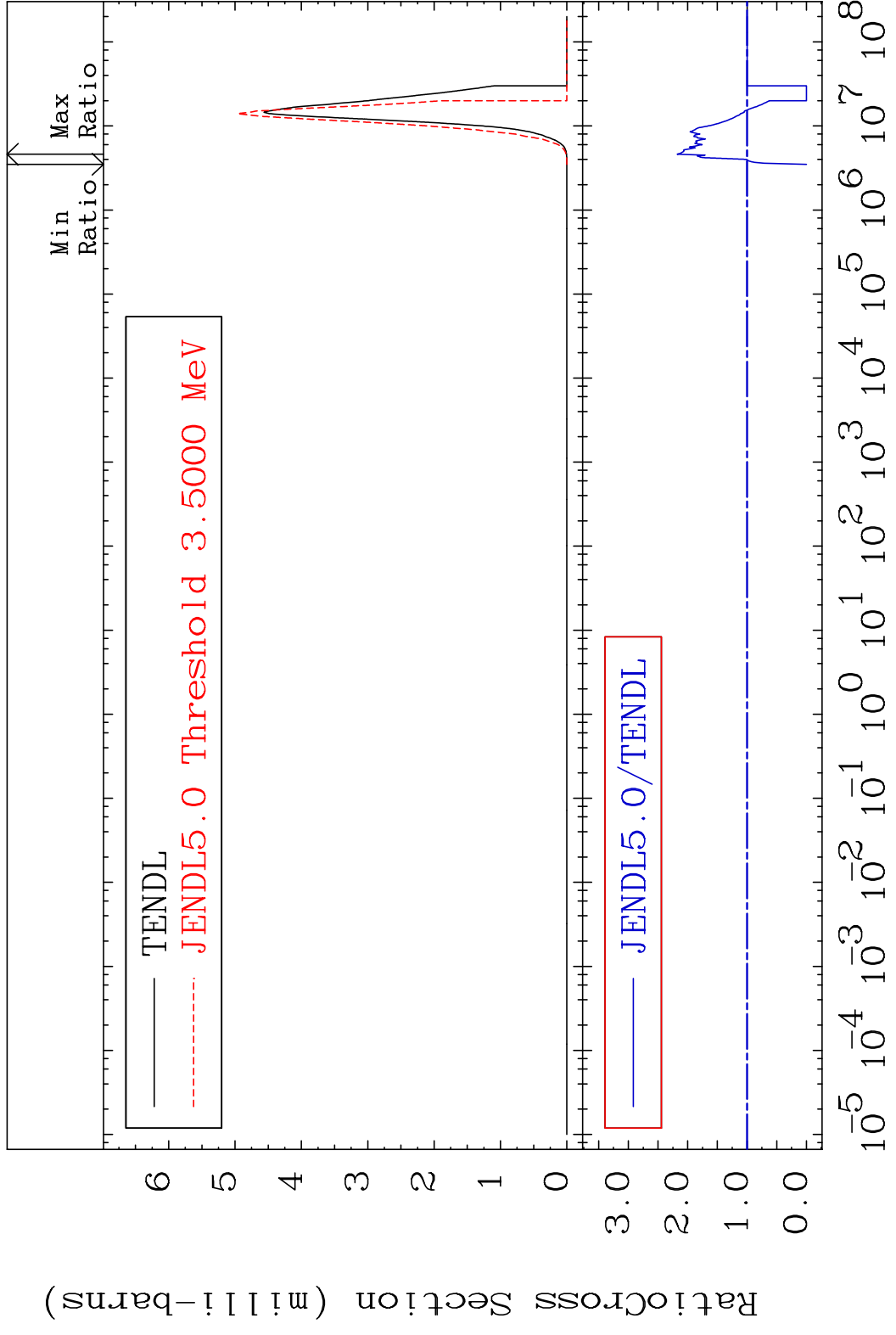


MAT 3131 (n, t):30-Zn-69m1 31-Ga-71
 Radionuclide Production Cross Section Ratio 891.8 %



65 31-Ga-71

MAT 3131 (n, α): 29-Cu-68g 31-Ga-71
 Radionuclide Production Cross Section 180.0 dth 117.7 %



MAT 3131 (n,α):29-Cu-68m3 31-Ga-71
 Radionuclide Production Cross Section Ratio 43.89 %

