

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

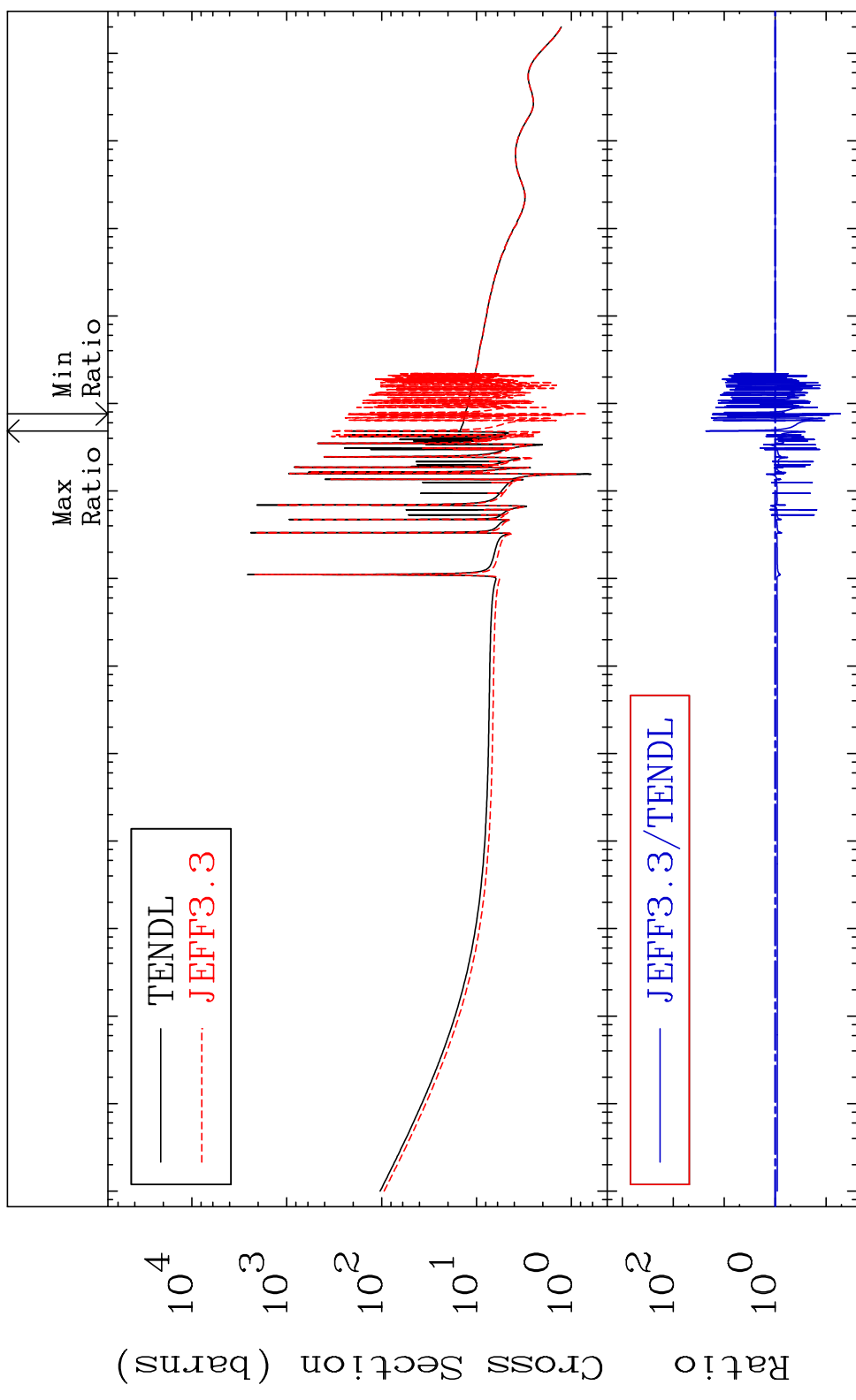
Press Mouse Button to Start

MAT 3125

Total

31-Ga-69

Cross Section -94.79 To 2203. %



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

1

Incident Energy (eV)

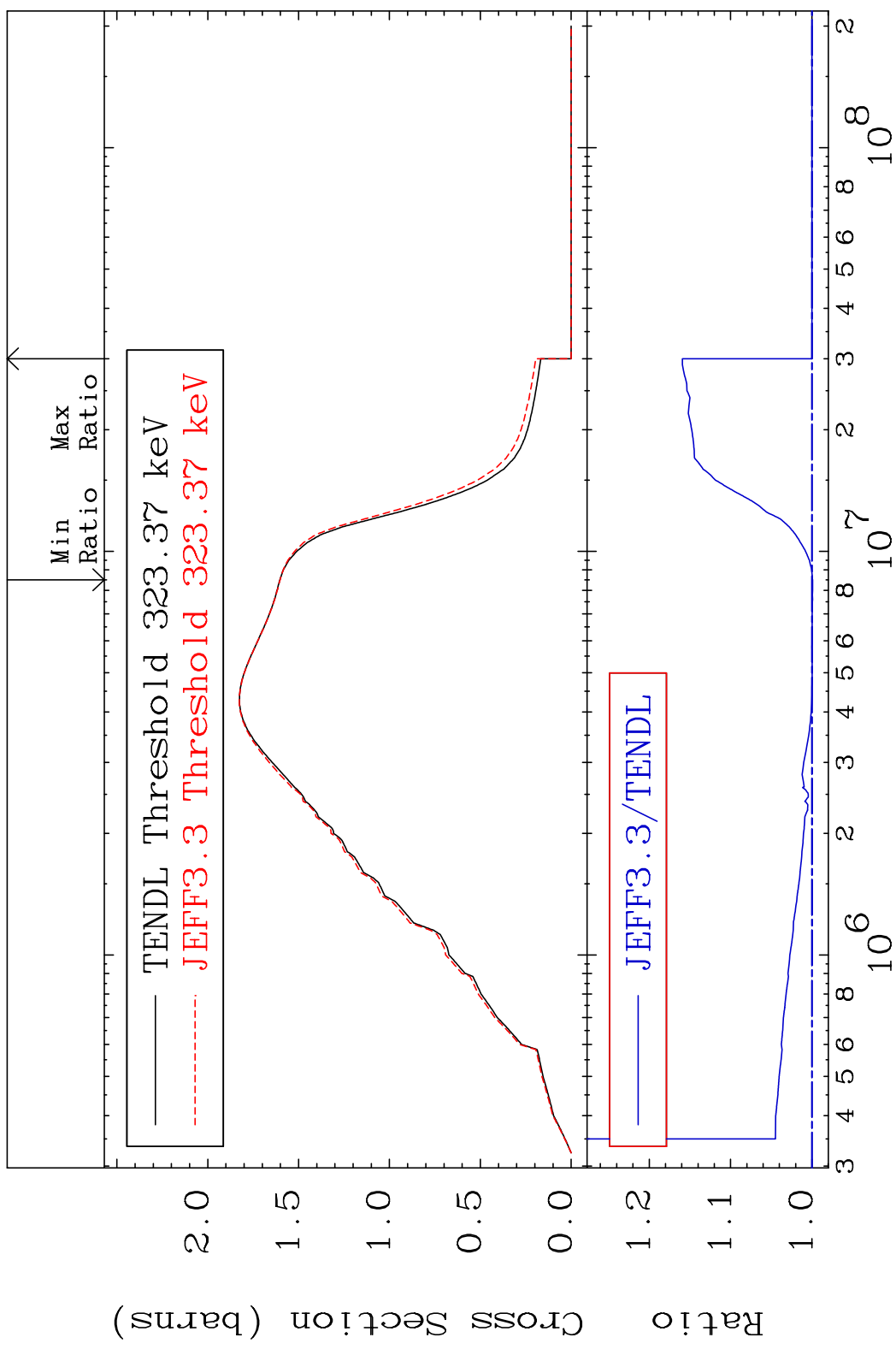
31-Ga-69

MAT 3125

Inelastic

31-Ga-69

Cross Section -0.075 To 15.93 %



3

Incident Energy (eV)

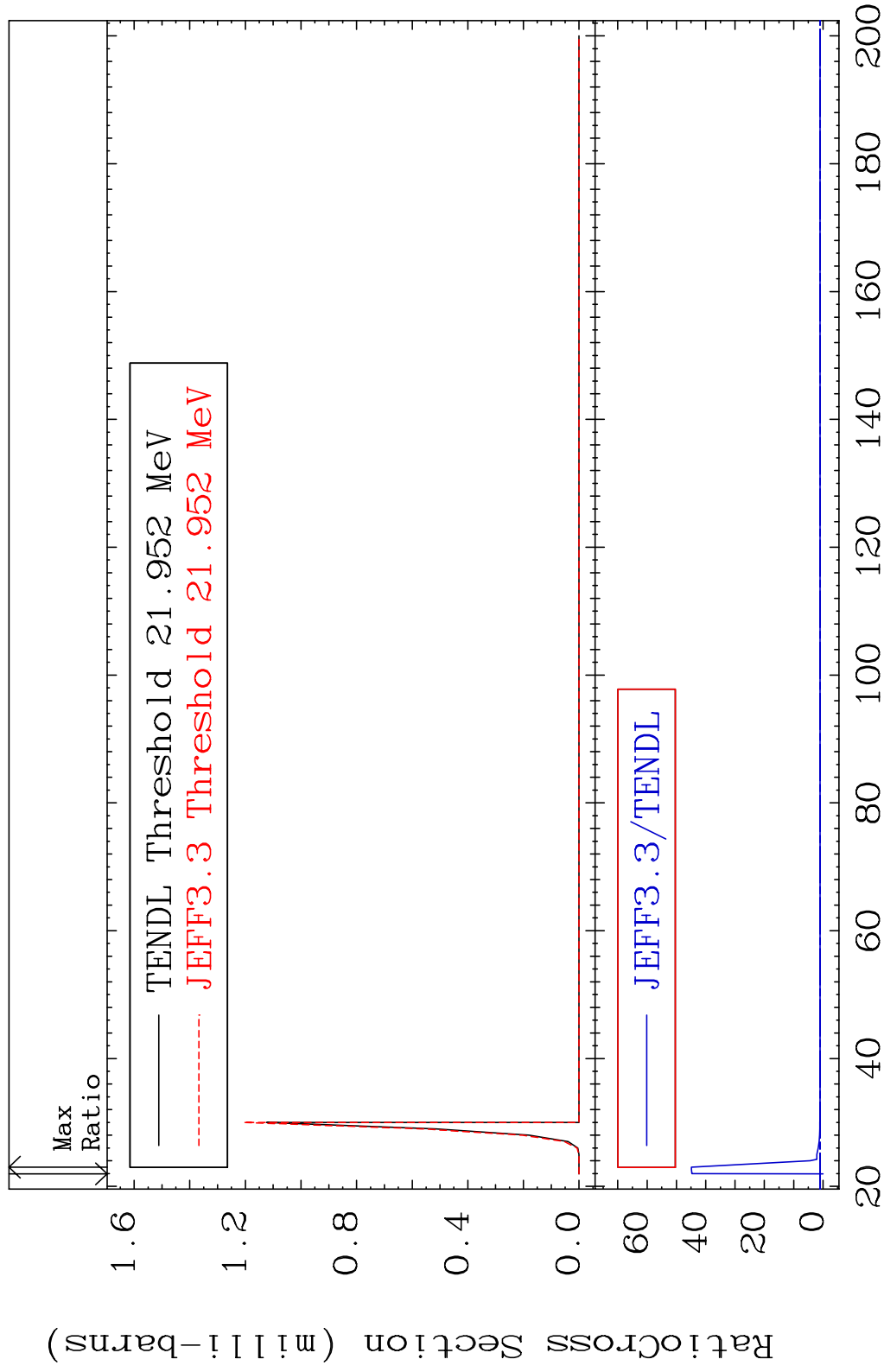
31-Ga-69

MAT 3125

(n,2n) d

31-Ga-69

Cross Section -100.0 To 4389. %



4

Incident Energy (MeV)

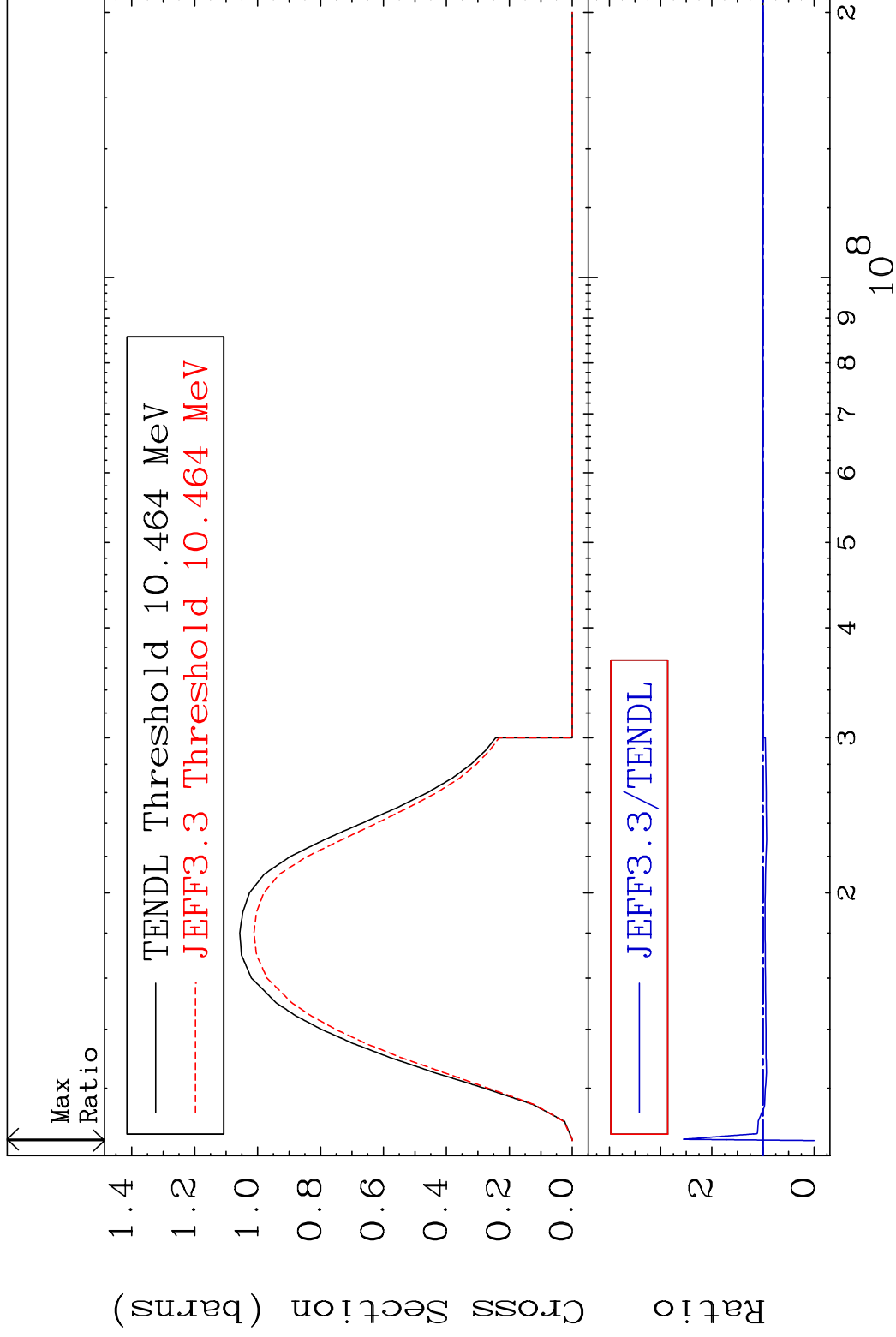
31-Ga-69

MAT 3125

(n,2n)

31-Ga-69

Cross Section -100.0 To 154.9 %



5

Incident Energy (eV)

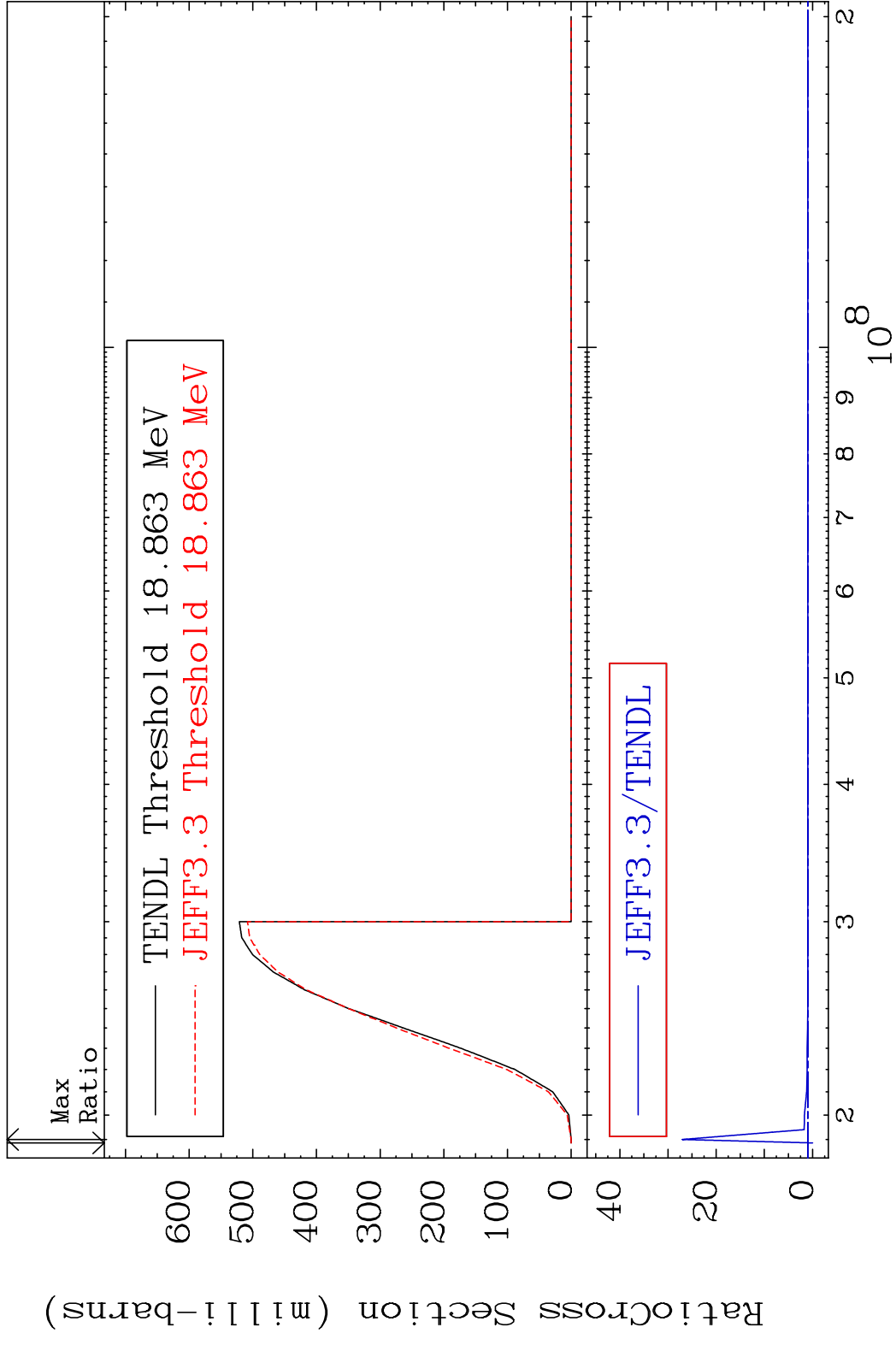
31-Ga-69

MAT 3125

(n,3n)

31-Ga-69

Cross Section -100.0 To 2602. %

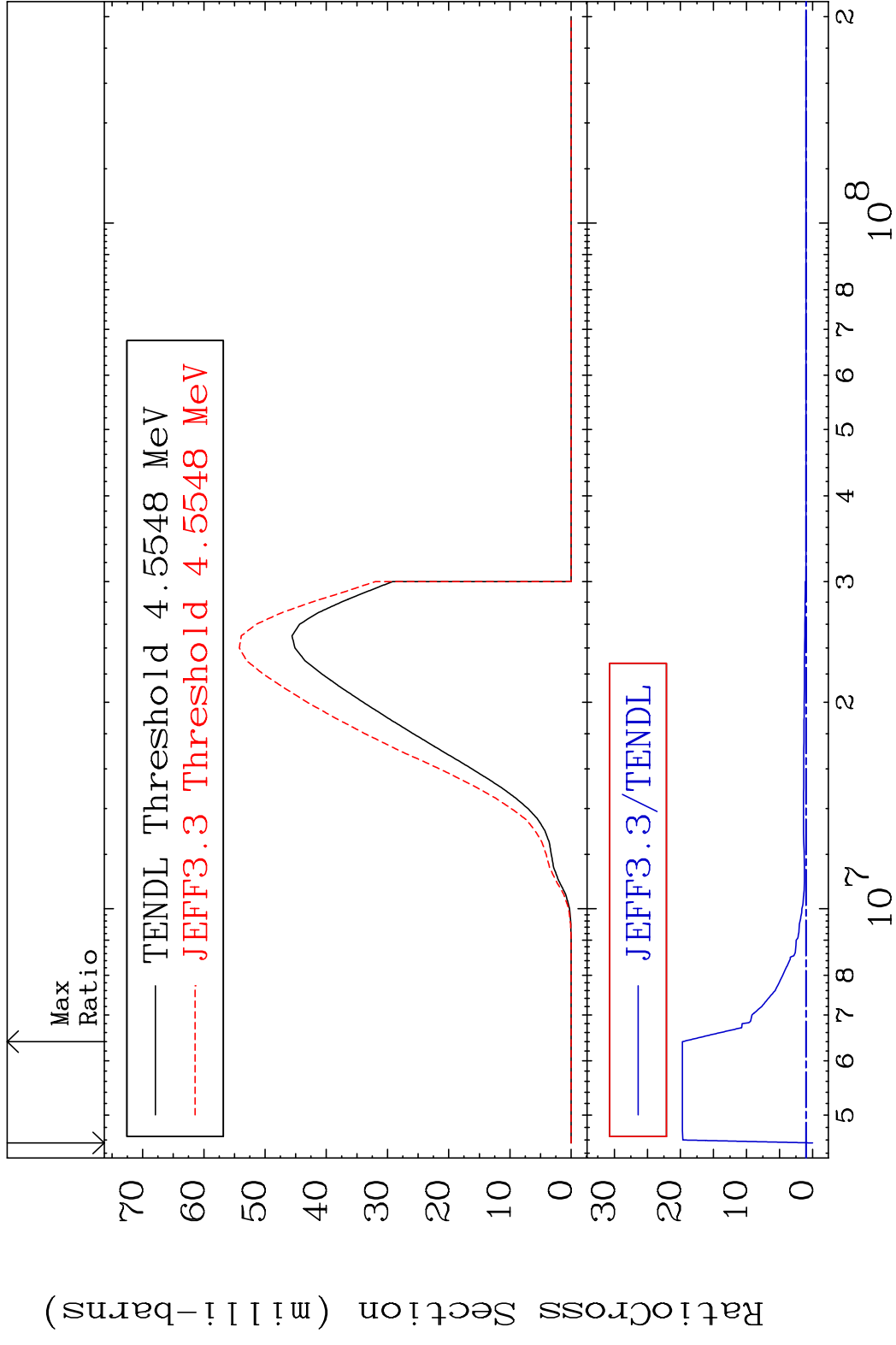


6

Incident Energy (eV)

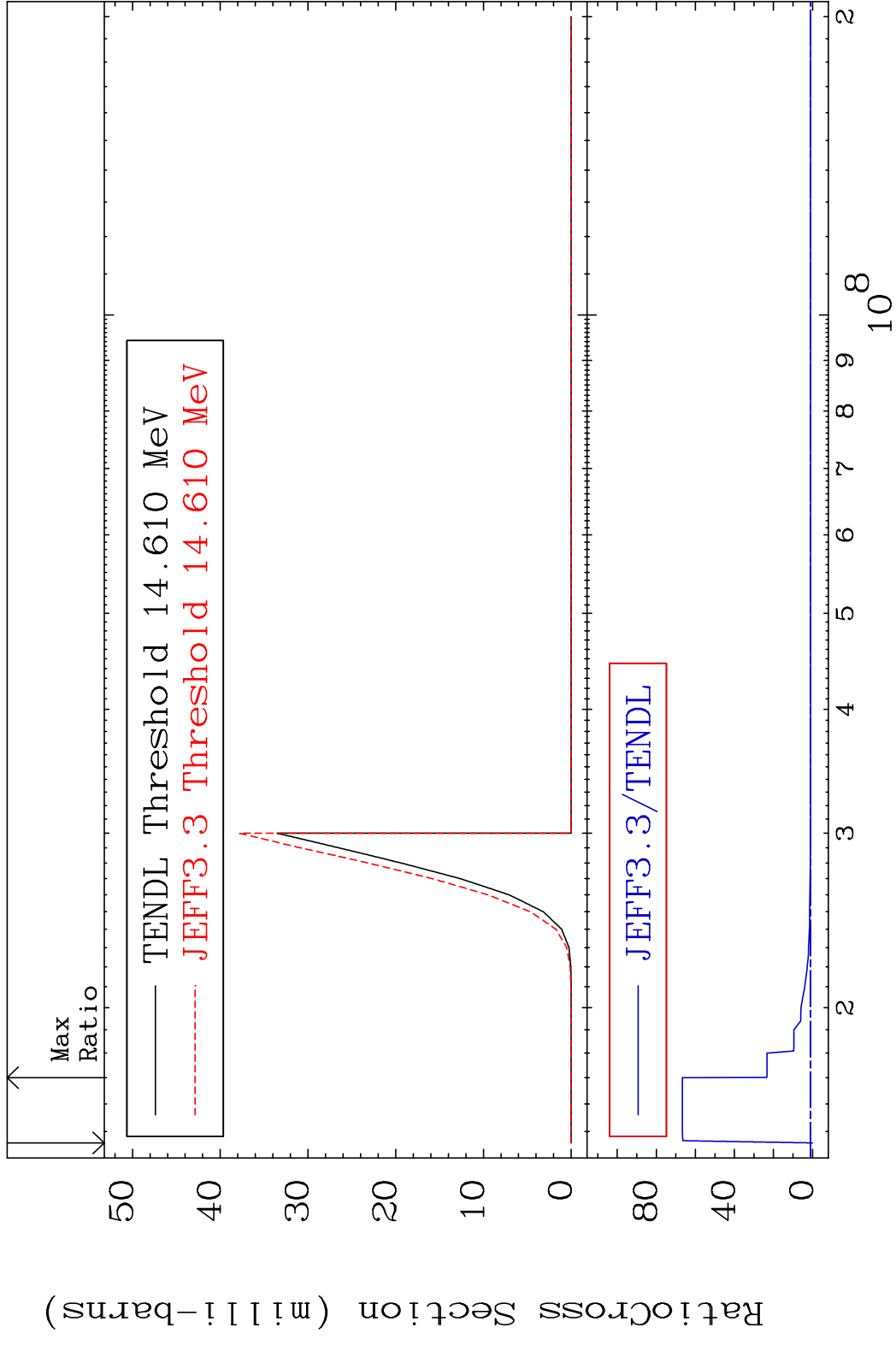
31-Ga-69

MAT 3125 (n, n') α 31-Ga-69
 Cross Section -100.0 To 1871. %



7 Incident Energy (eV) 31-Ga-69

MAT 3125 (n,2n) α 31-Ga-69
 Cross Section -100.0 To 6566. %

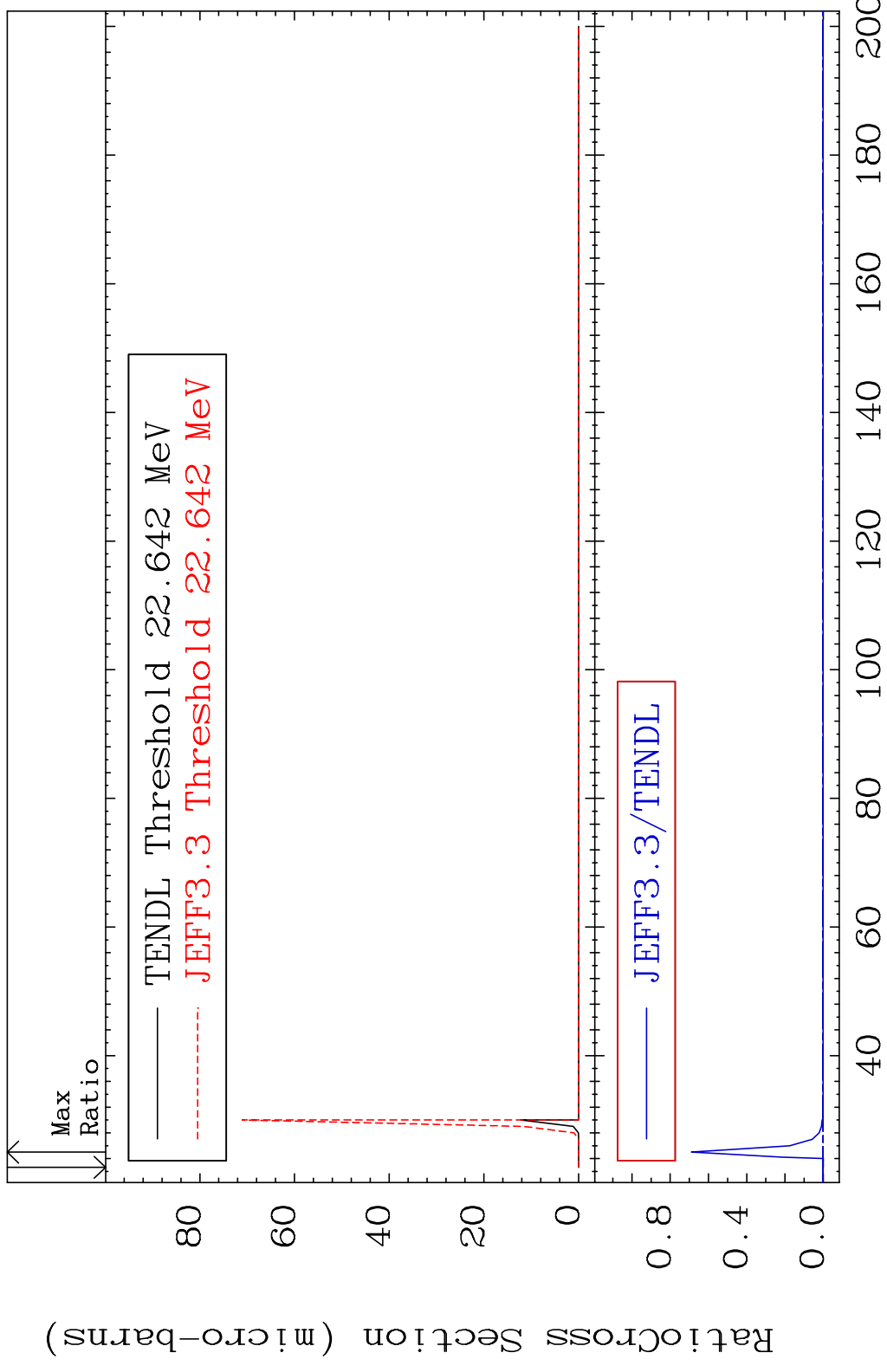


MAT 3125

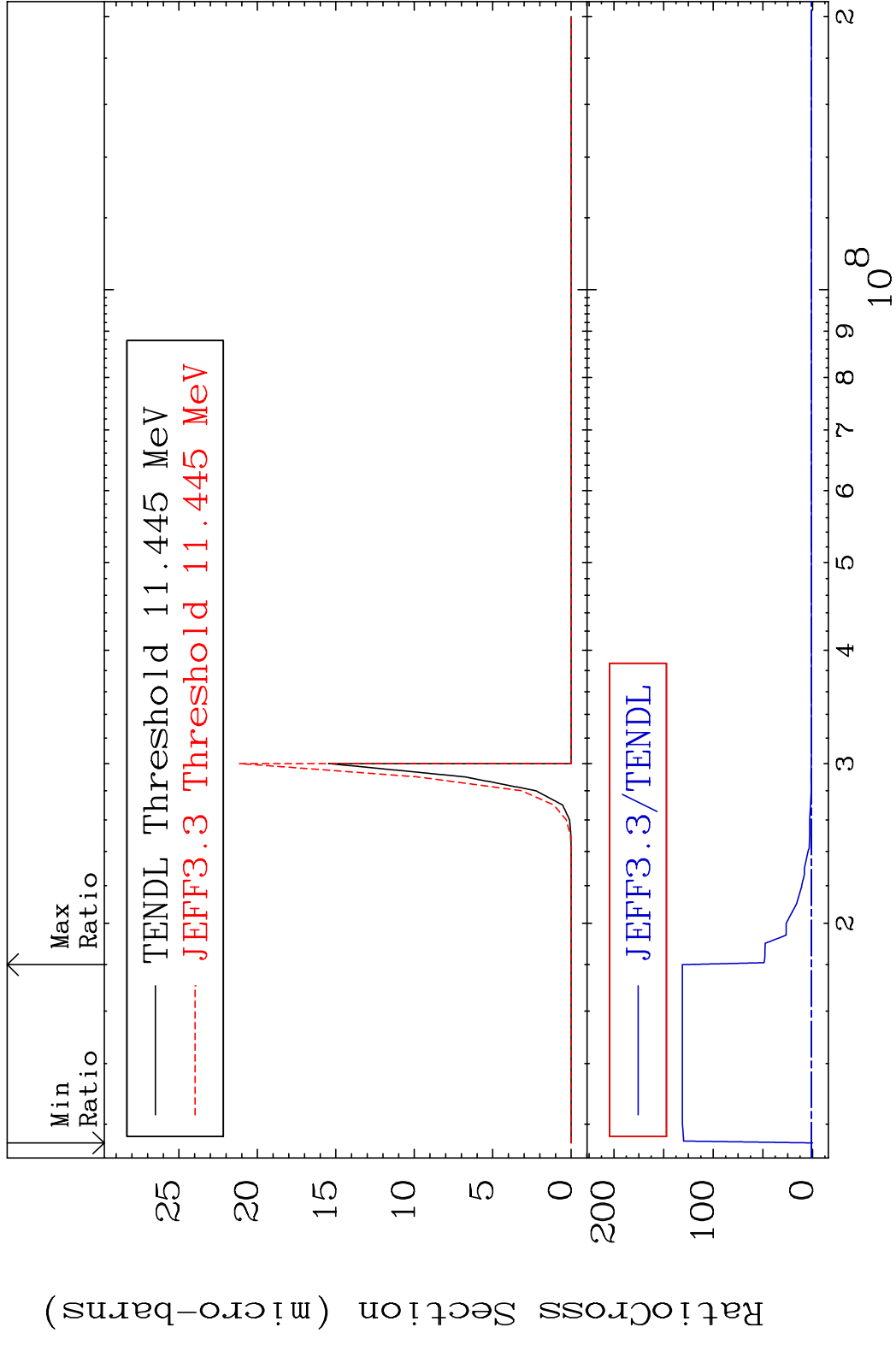
(n,3n) α

31-Ga-69

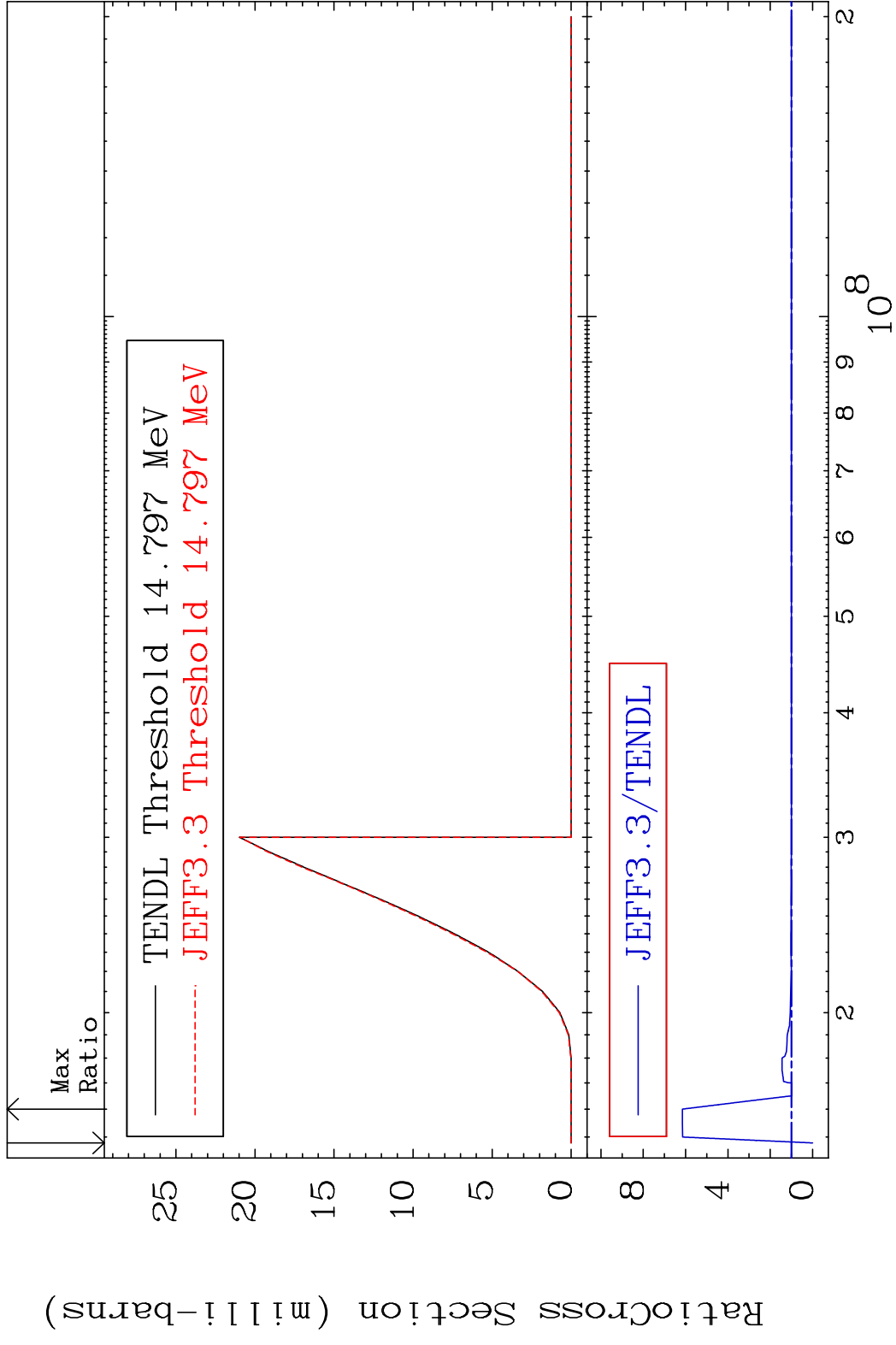
Cross Section -100.0 To 9999. %



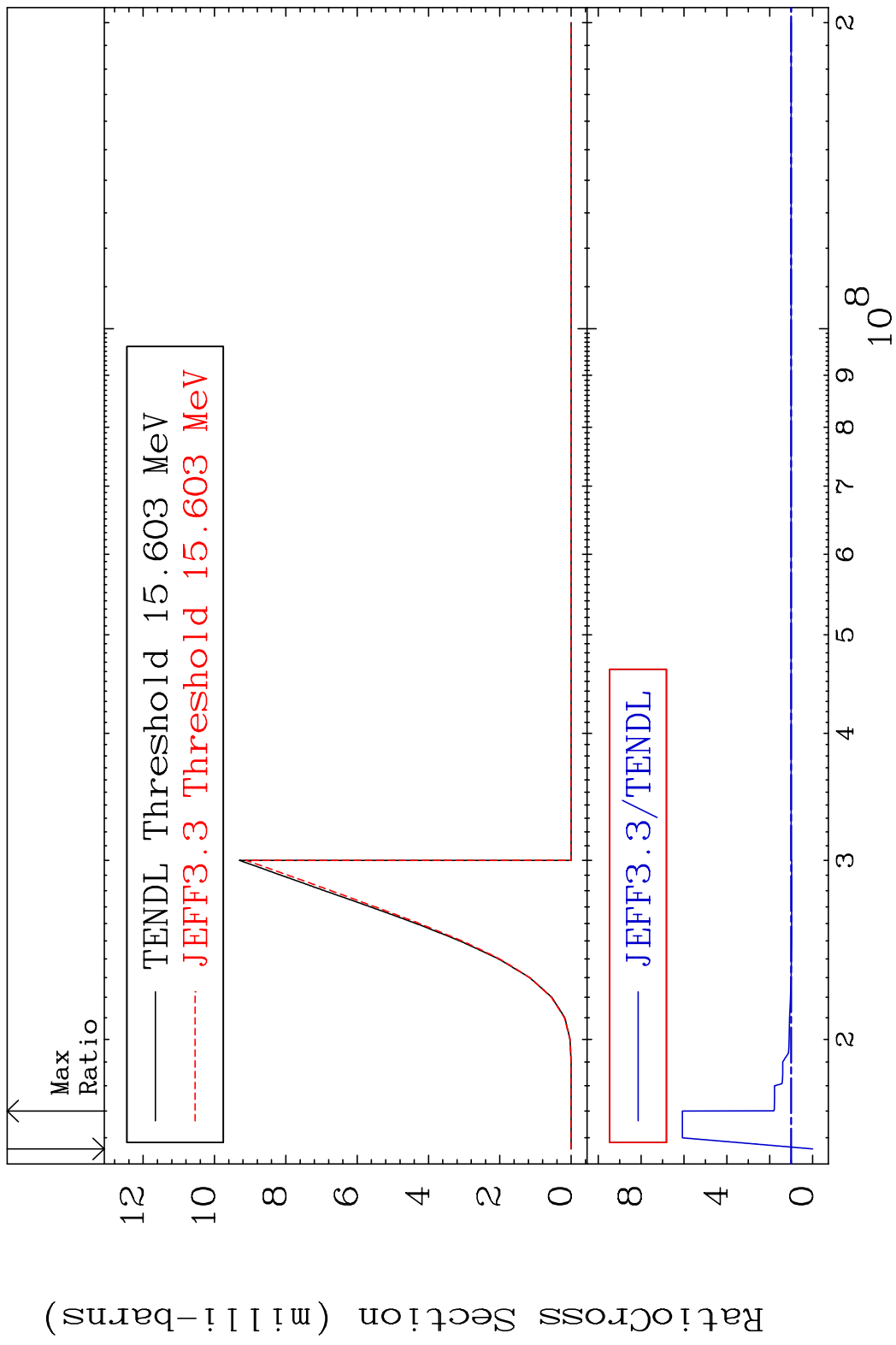
MAT 3125 (n, n') 2α 31-Ga-69
 Cross Section -100.0 To 9999. %



MAT 3125 (n, n') d 31-Ga-69
 Cross Section -100.0 To 515.2 %



MAT 3125 (n, n') t 31-Ga-69
 Cross Section -100.0 To 507.2 %

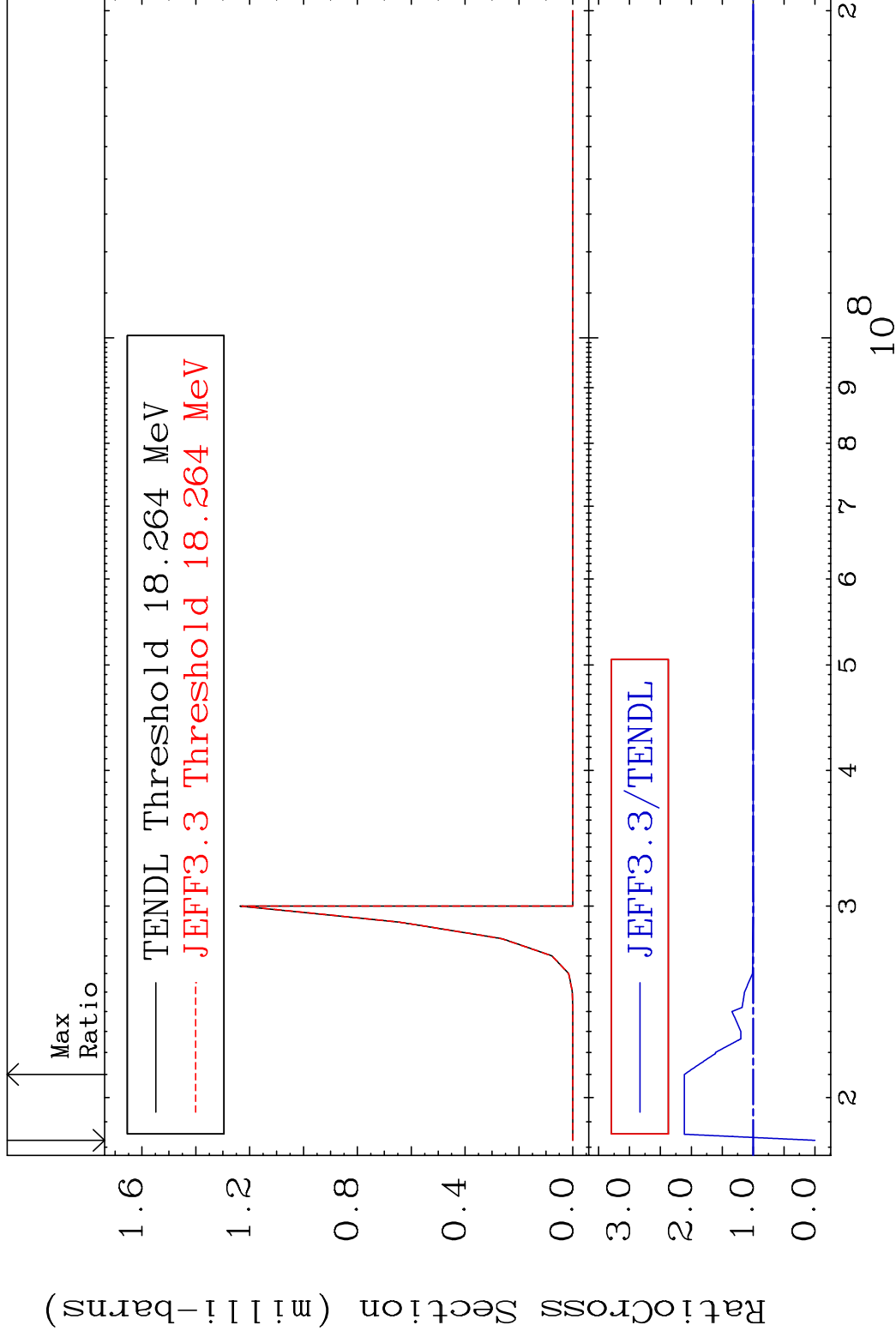


MAT 3125

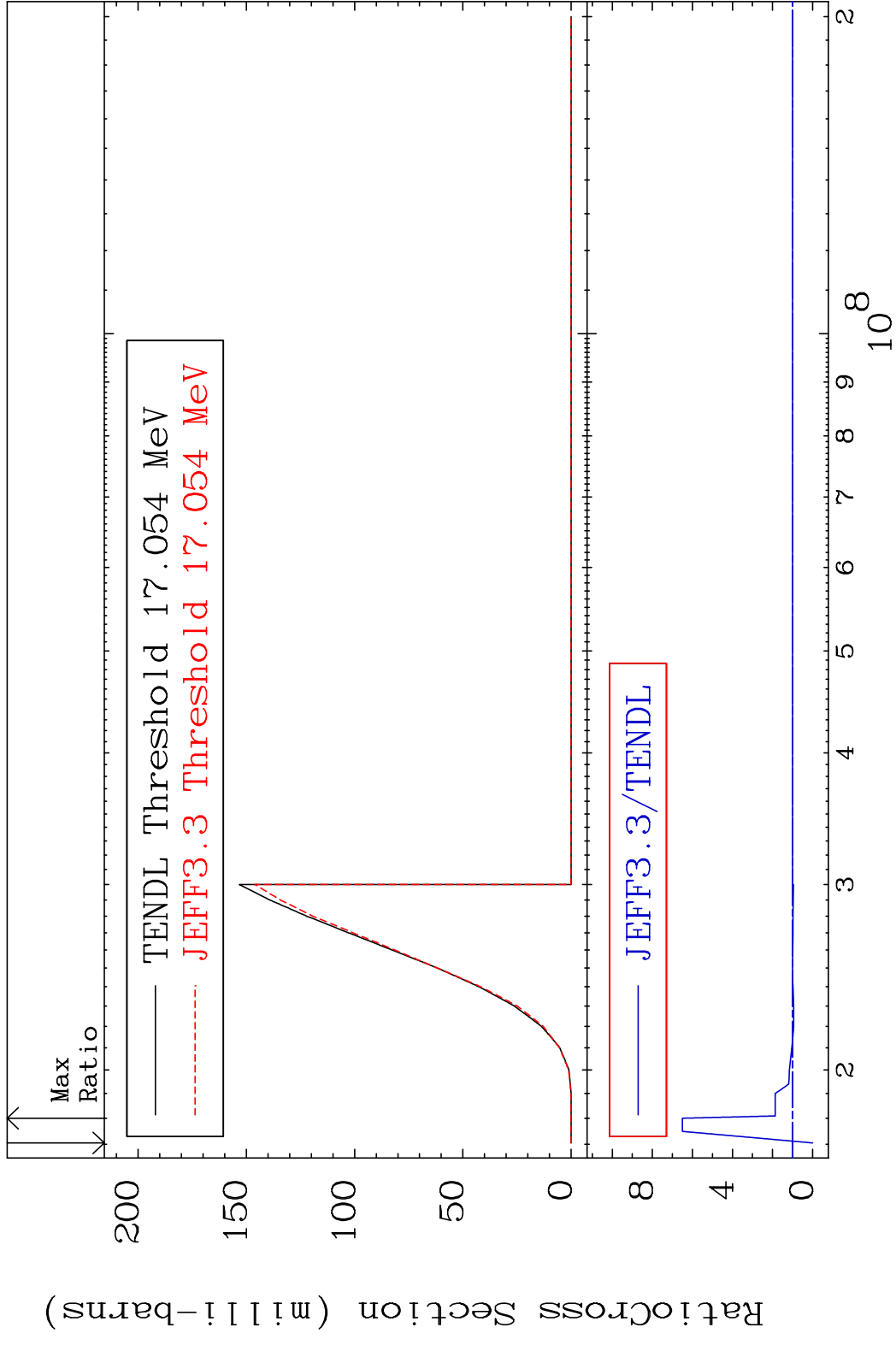
(n,n') He-3

31-Ga-69

Cross Section -100.0 To 111.4 %



MAT 3125 (n,2n) p 31-Ga-69
 Cross Section -100.0 To 550.2 %

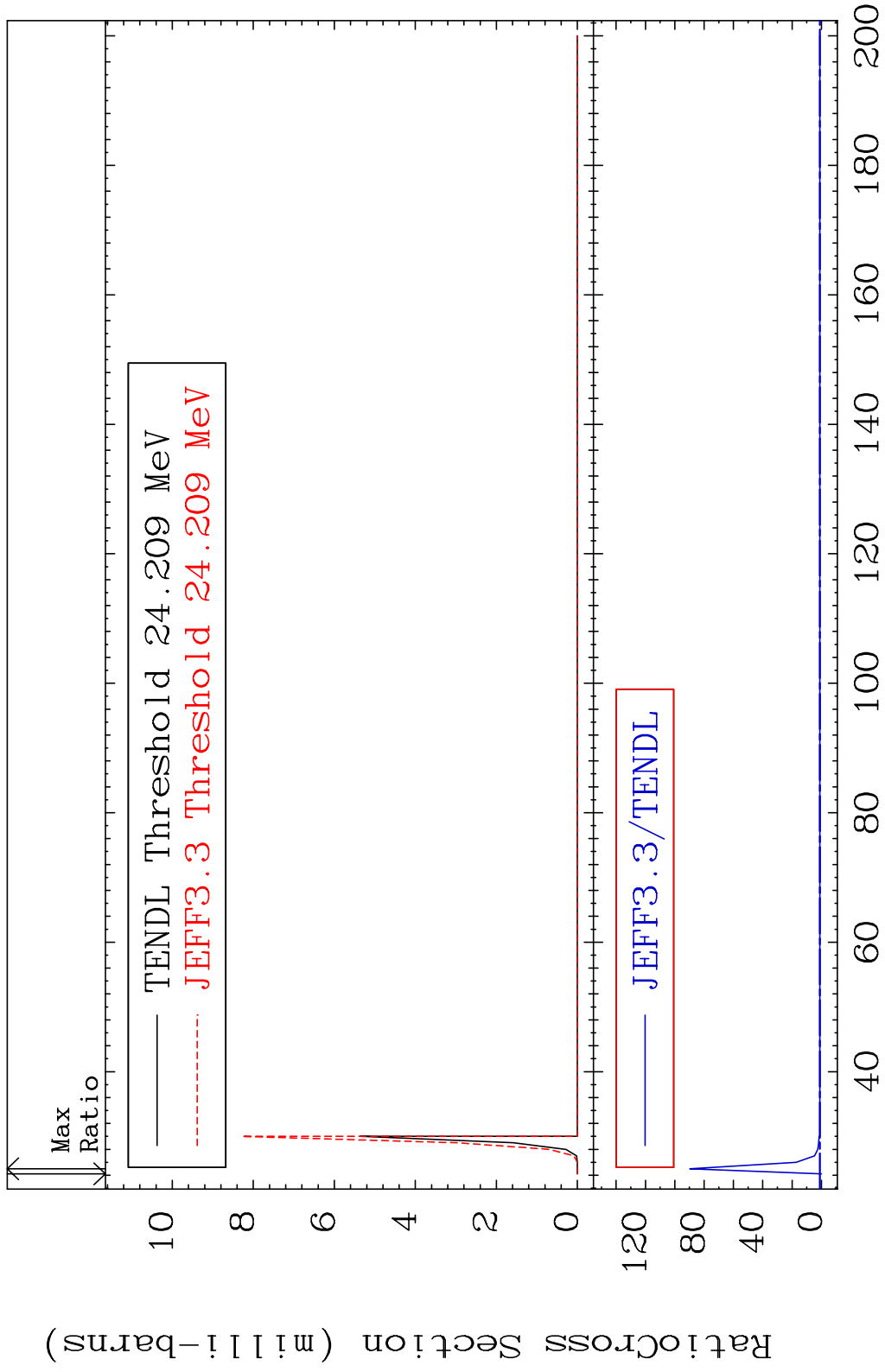


MAT 3125

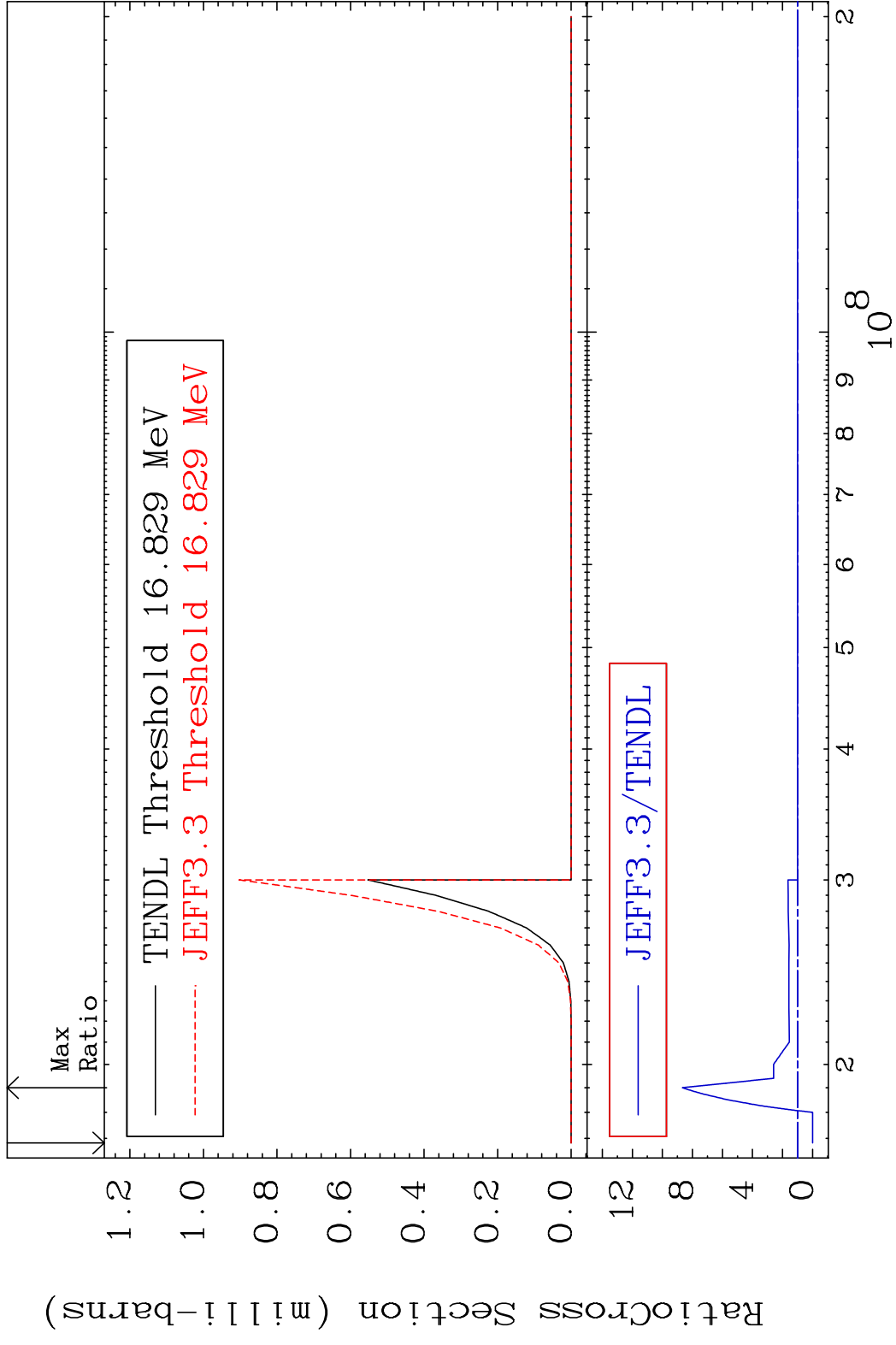
(n,3n) p

31-Ga-69

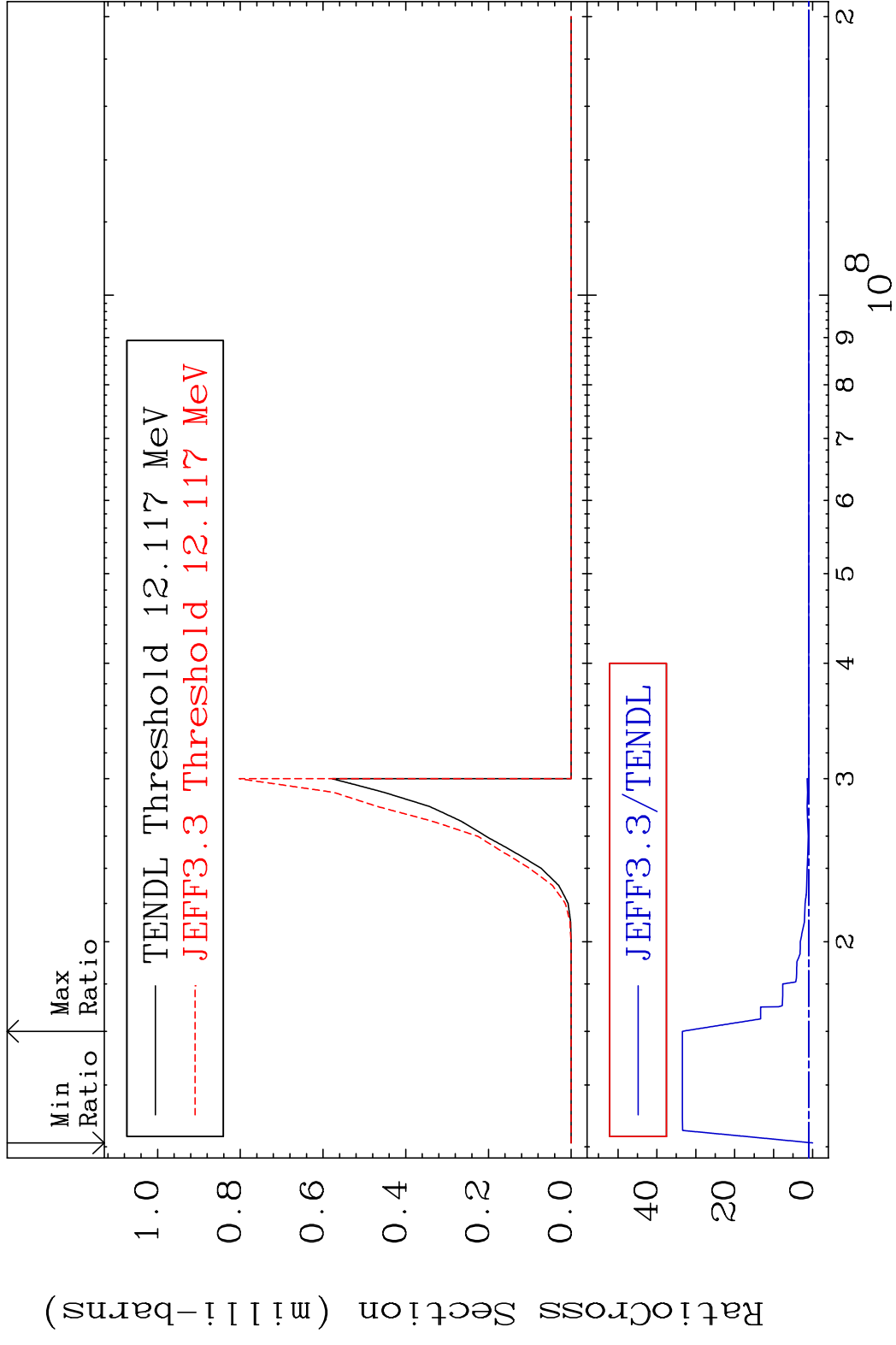
Cross Section -100.0 To 8877. %



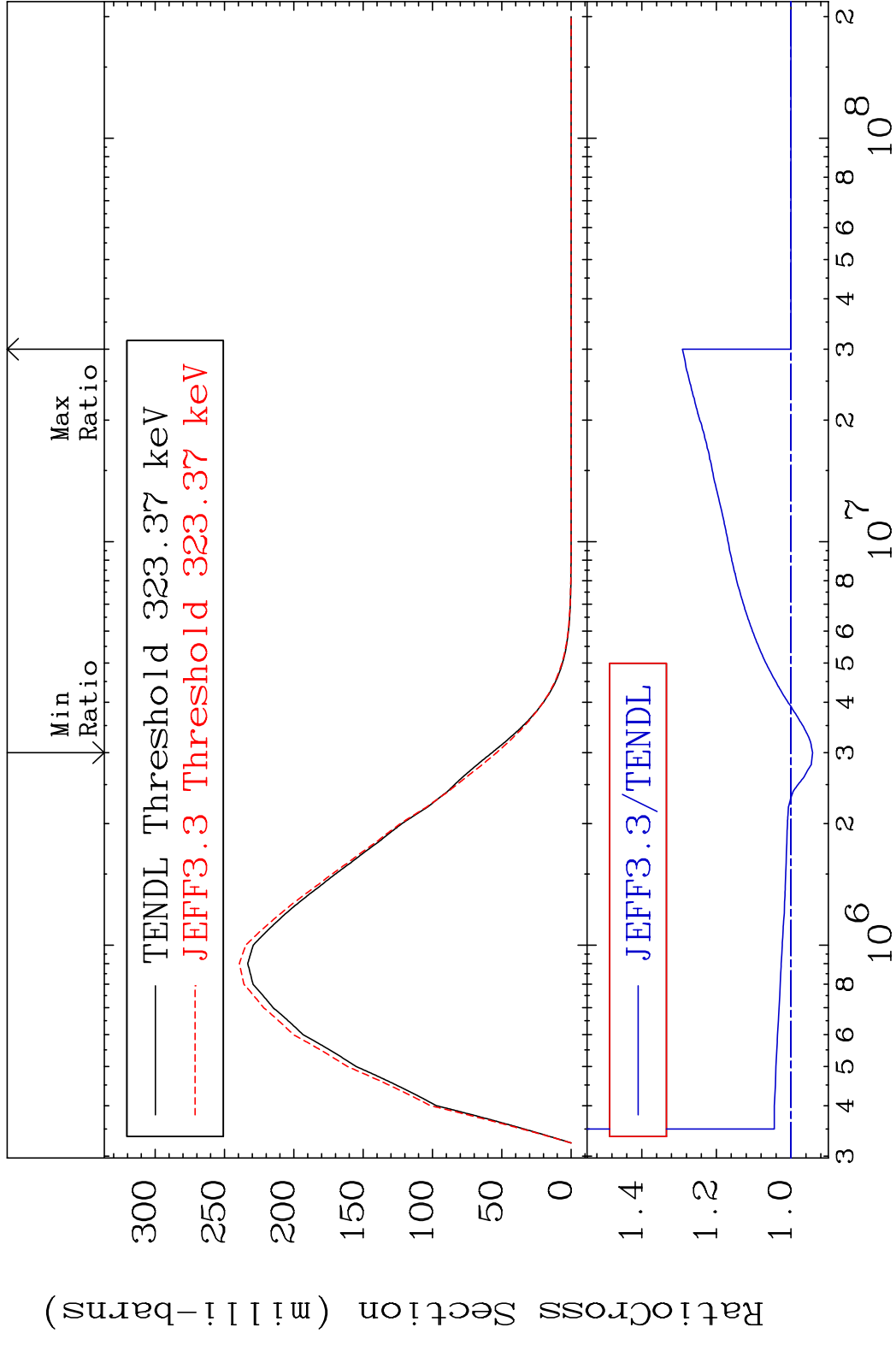
MAT 3125 (n,2n) p 31-Ga-69
 Cross Section -100.0 To 767.0 %



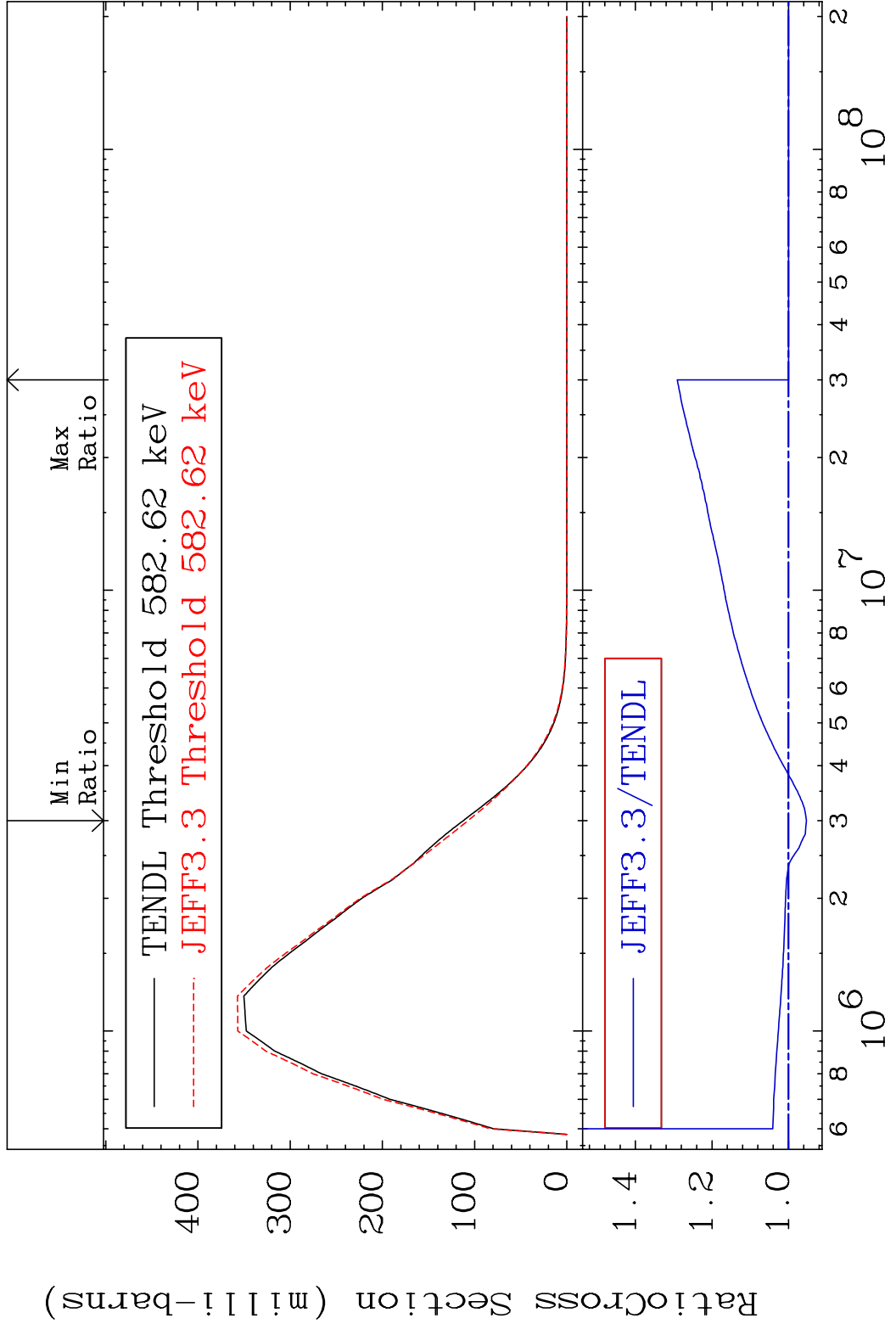
MAT 3125 (n,n') p α 31-Ga-69
 Cross Section -100.0 To 3246. %



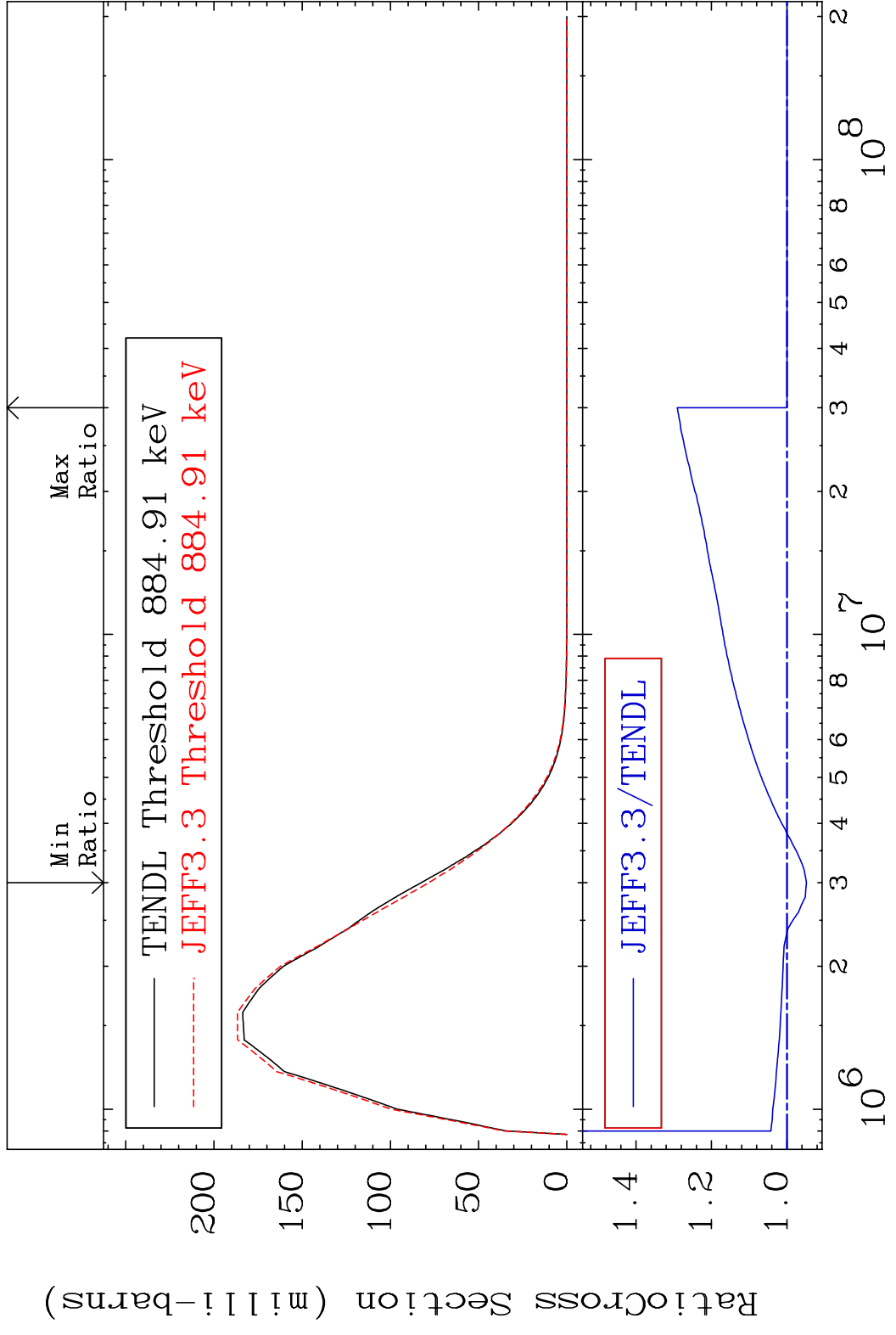
MAT 3125 MT= 51 (n, n') Level 31-Ga-69
 Cross Section -5.784 To 29.10 %



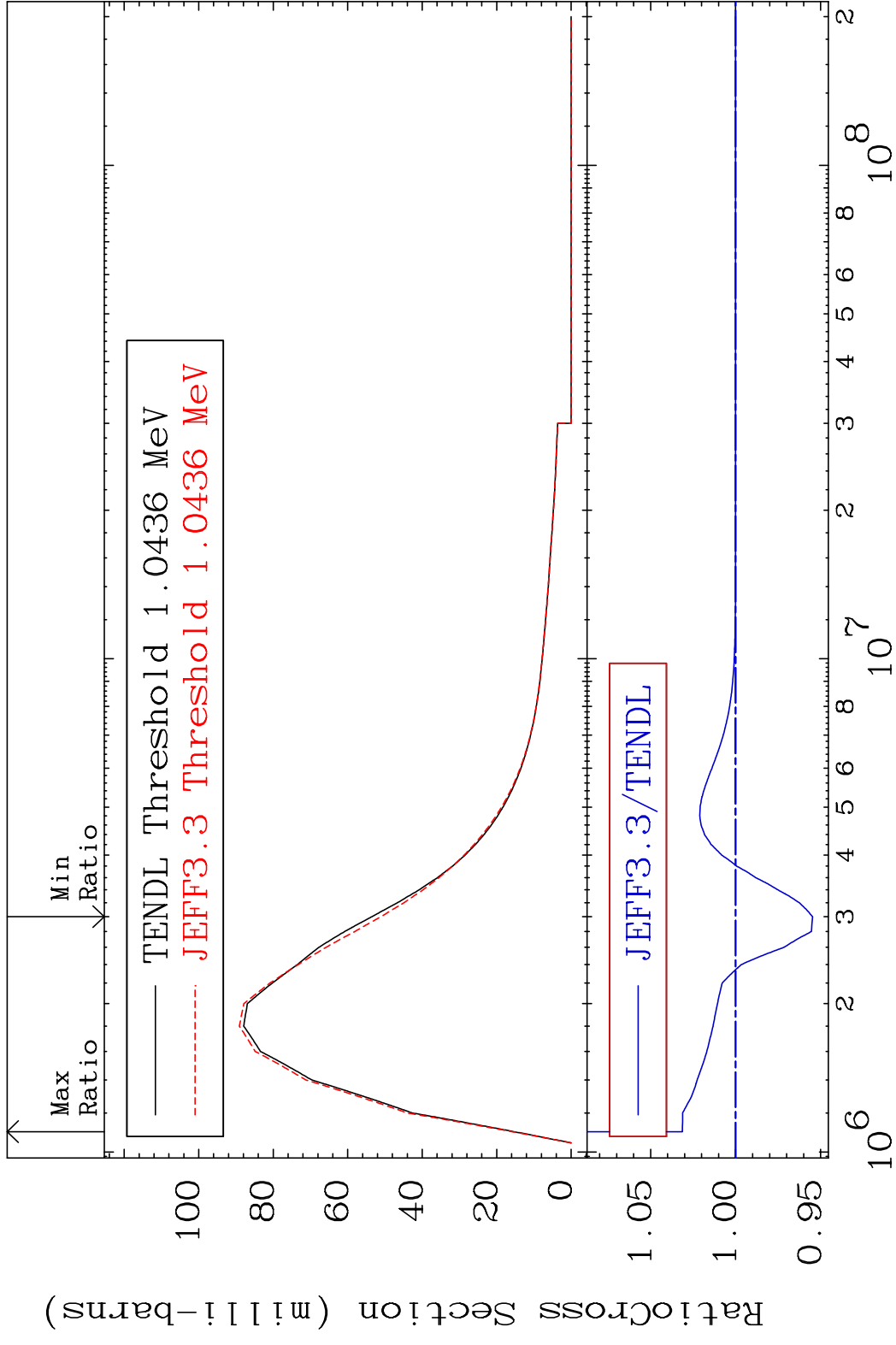
MAT 3125 MT= 52 (n, n') Level 31-Ga-69
 Cross Section -4.681 To 29.09 %



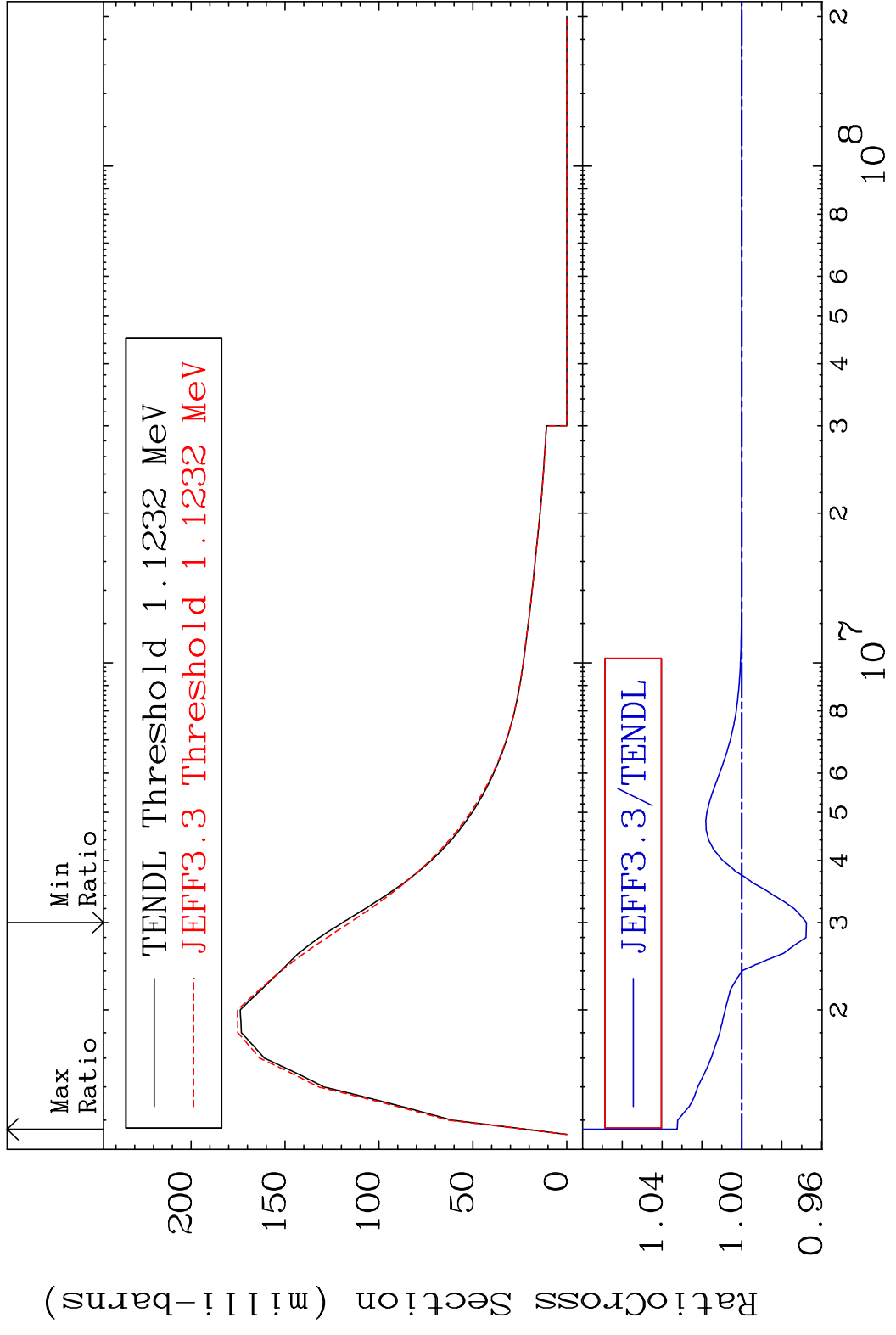
MAT 3125 MT= 53 (n, n') Level 31-Ga-69
 Cross Section -5.162 To 29.09 %



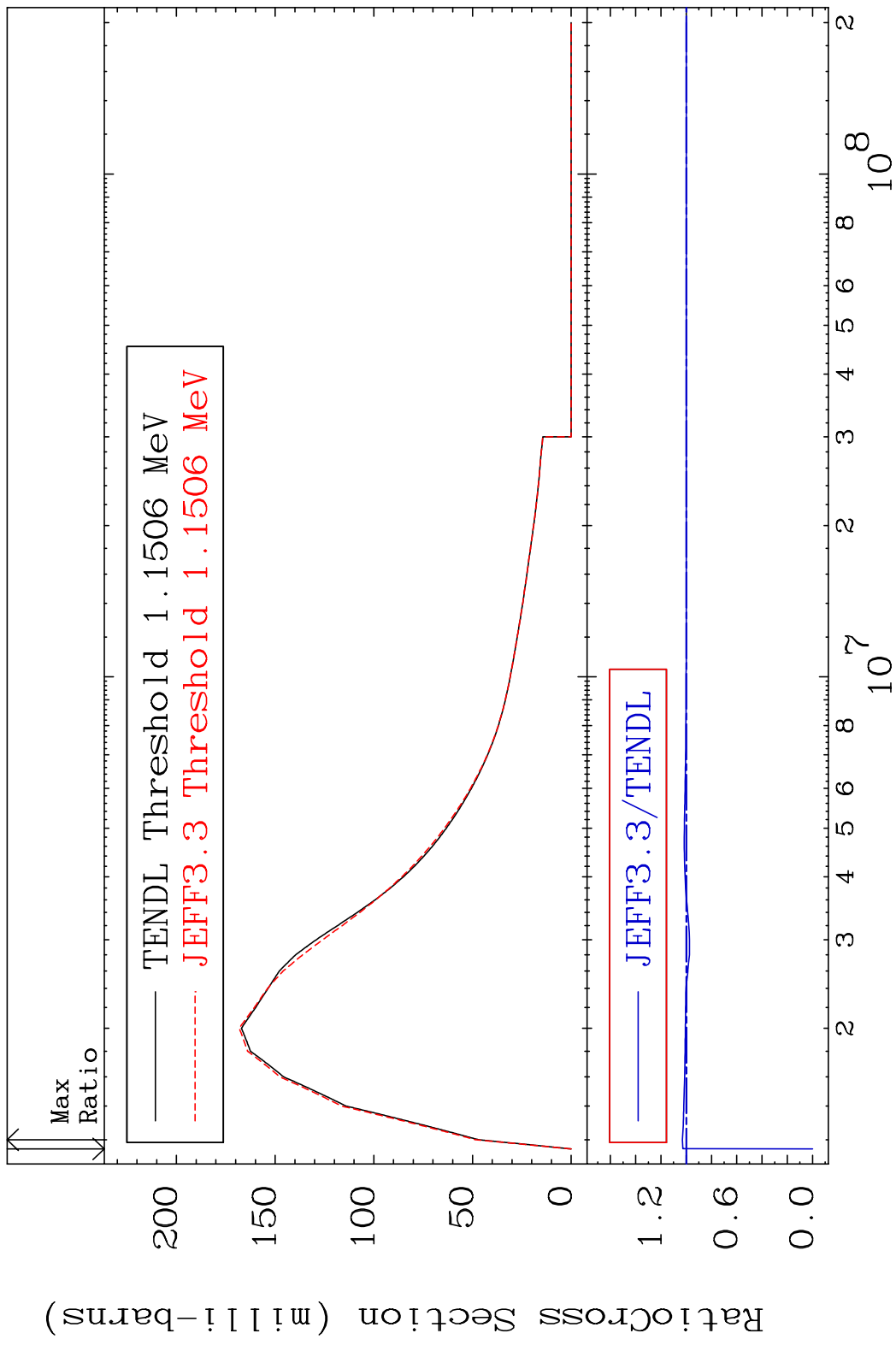
MAT 3125 MT= 54 (n,n') Level 31-Ga-69
 Cross Section -4.527 To 3.136 %



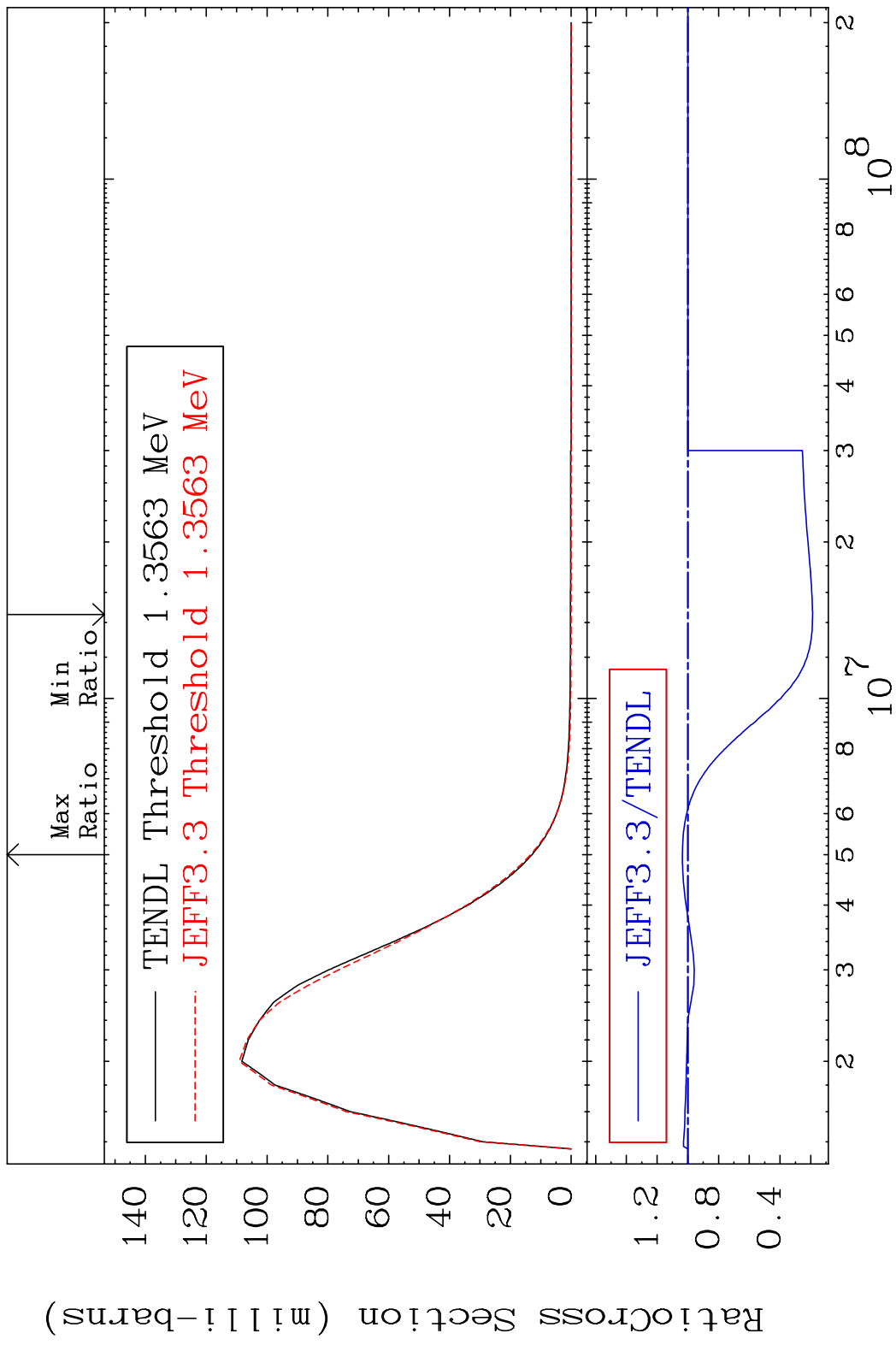
MAT 3125 MT= 55 (n,n') Level 31-Ga-69
 Cross Section -3.240 To 3.243 %



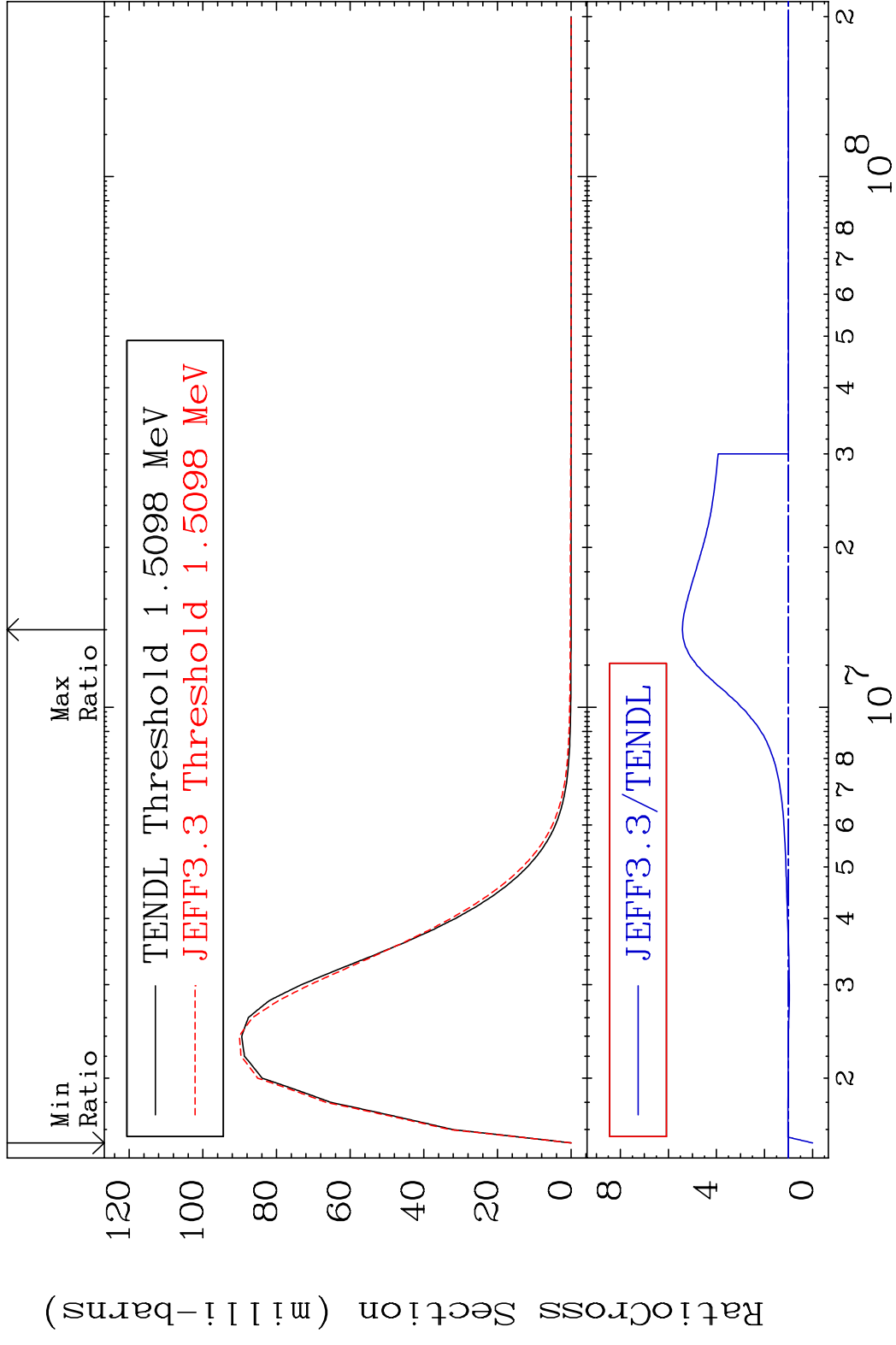
MAT 3125 MT= 56 (n,n') Level 31-Ga-69
 Cross Section -100.0 To 3.054 %



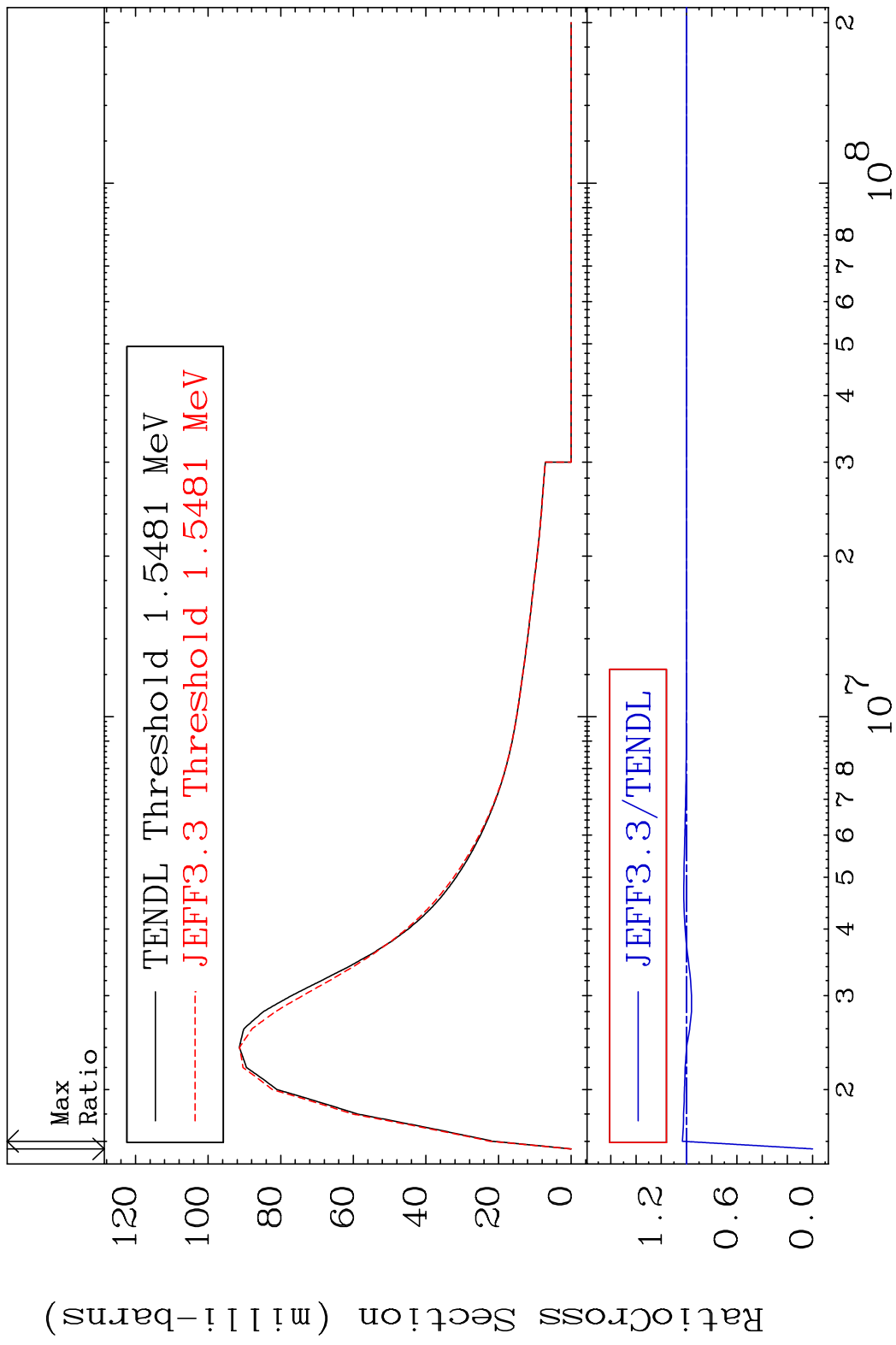
MAT 3125 MT= 57 (n, n') Level 31-Ga-69
 Cross Section -81.16 To 3.565 %



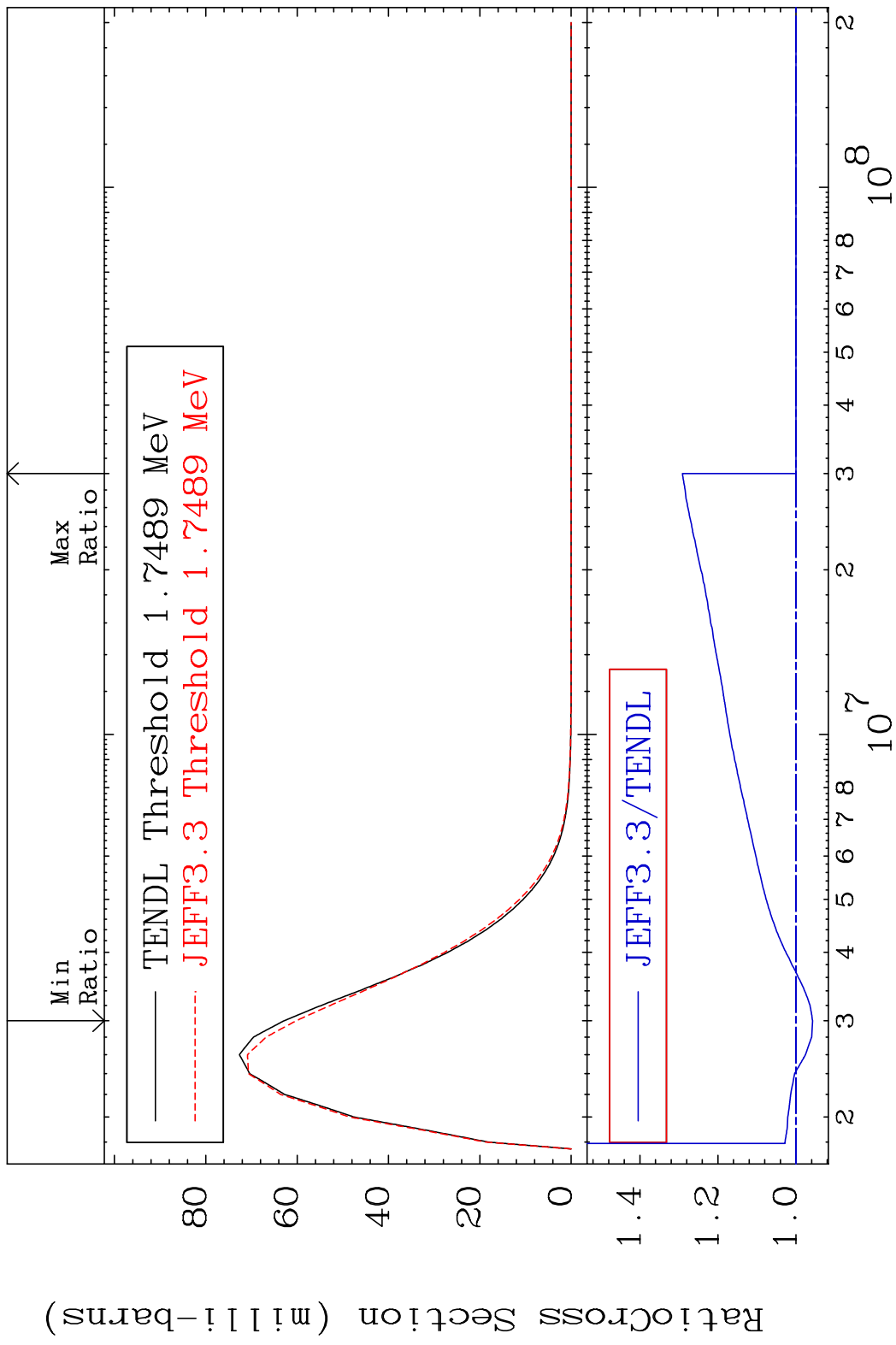
MAT 3125 MT= 58 (n, n') Level 31-Ga-69
 Cross Section -100.0 To 441.9 %



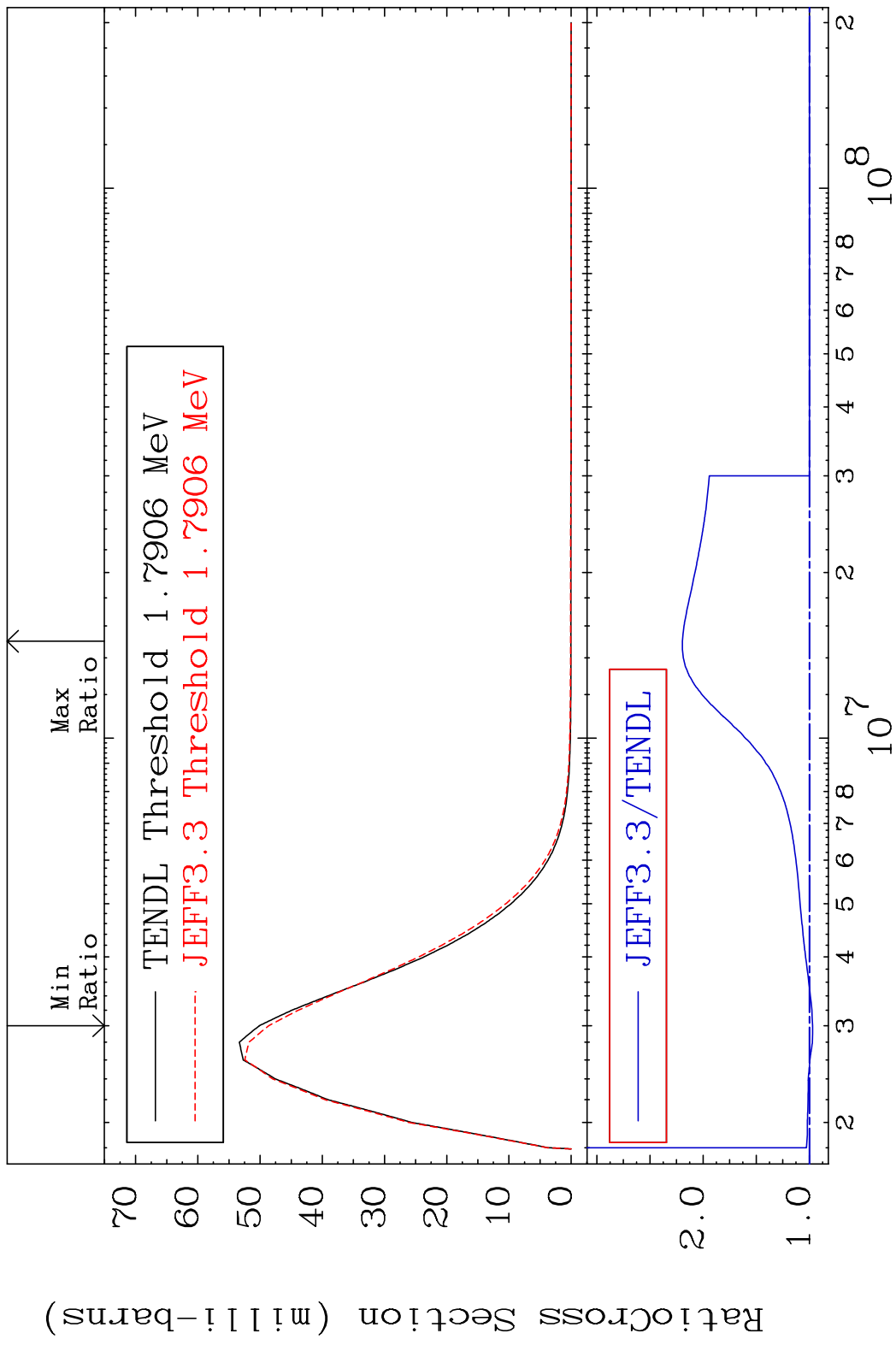
MAT 3125 MT= 59 (n,n') Level 31-Ga-69
 Cross Section -100.0 To 3.279 %



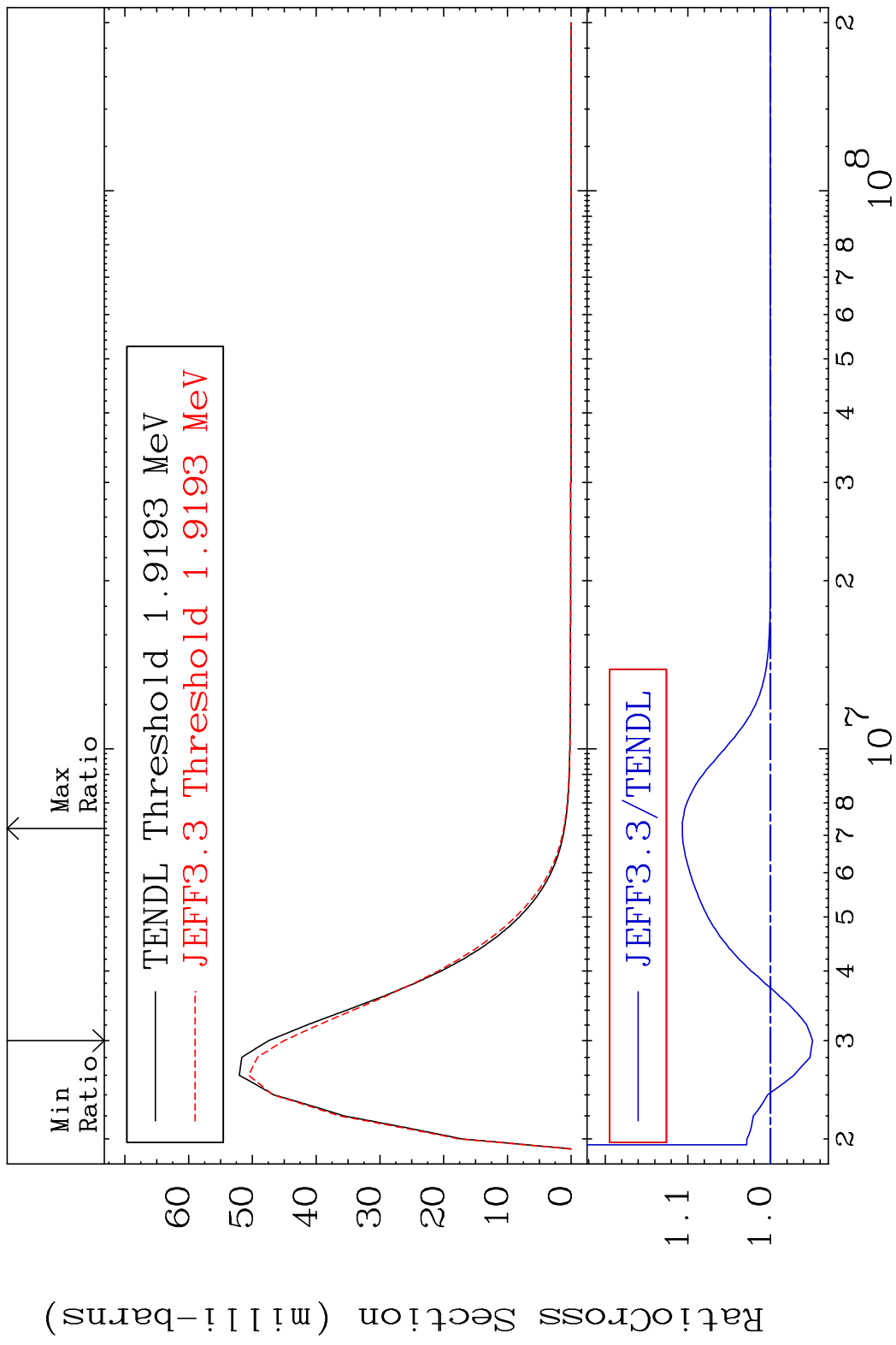
MAT 3125 MT= 60 (n, n') Level 31-Ga-69
 Cross Section -4.247 To 29.12 %



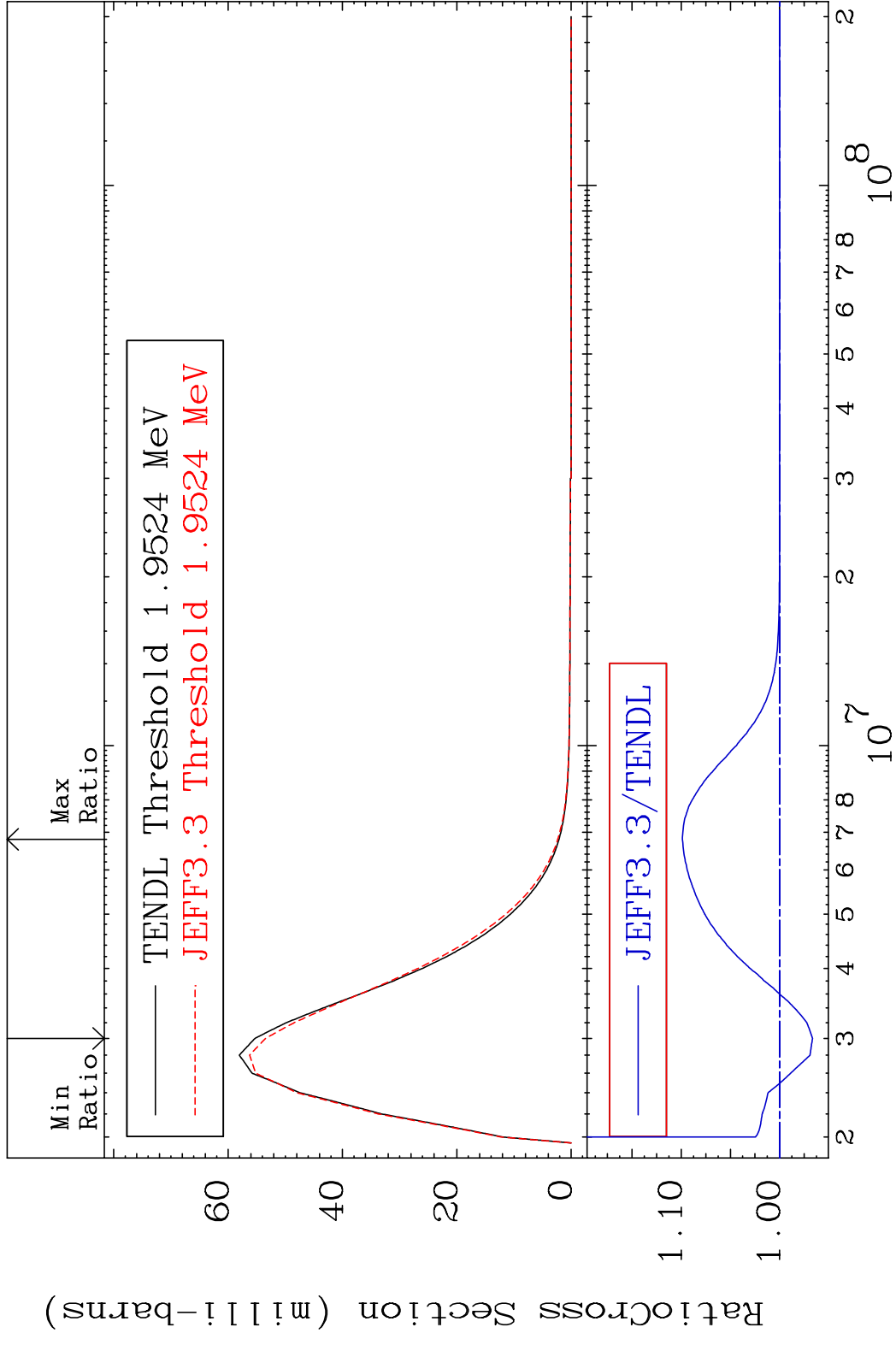
MAT 3125 MT= 61 (n, n') Level 31-Ga-69
 Cross Section -3.018 To 119.5 %



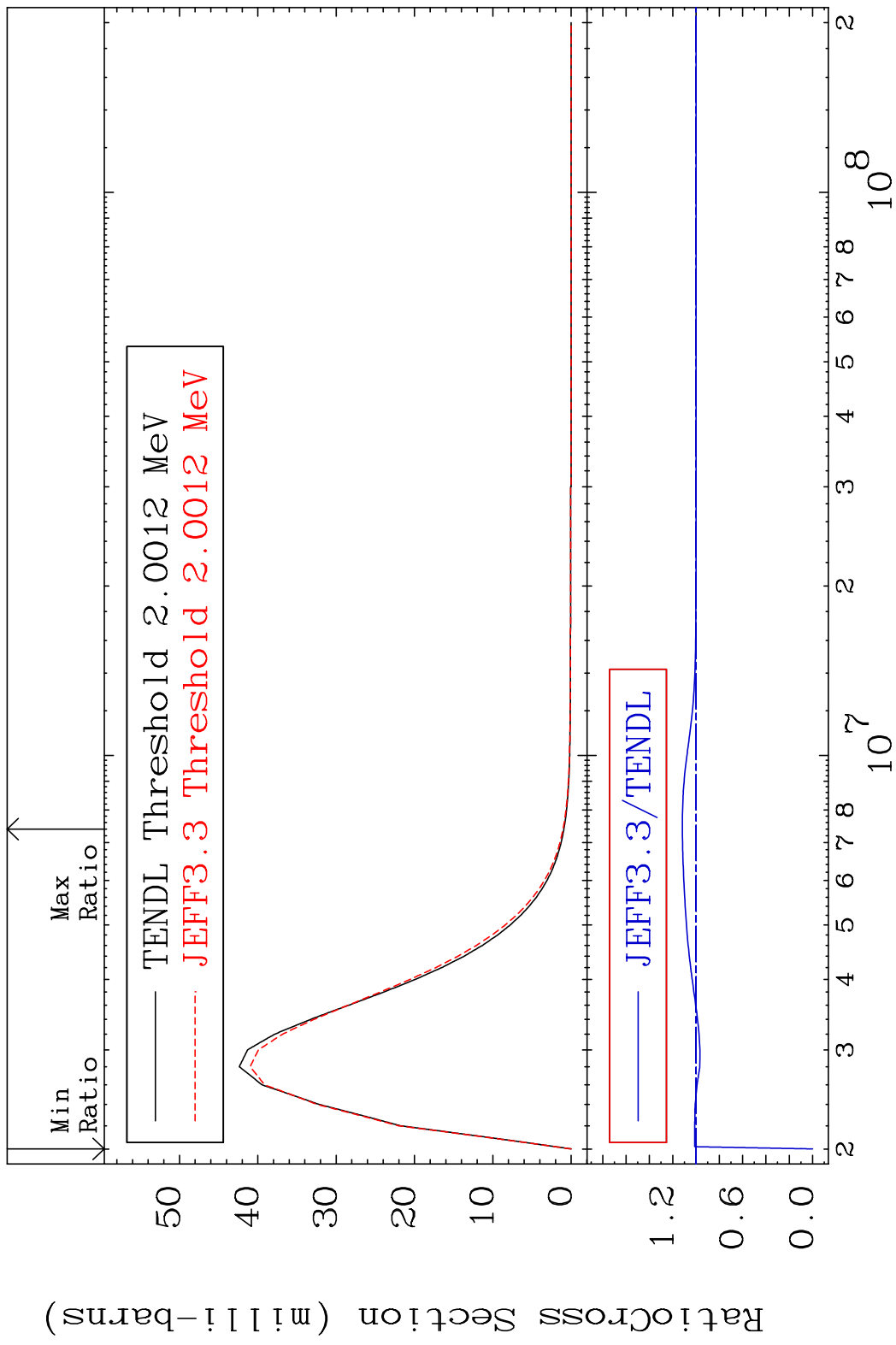
MAT 3125 MT= 62 (n, n') Level 31-Ga-69
 Cross Section -5.089 To 10.66 %



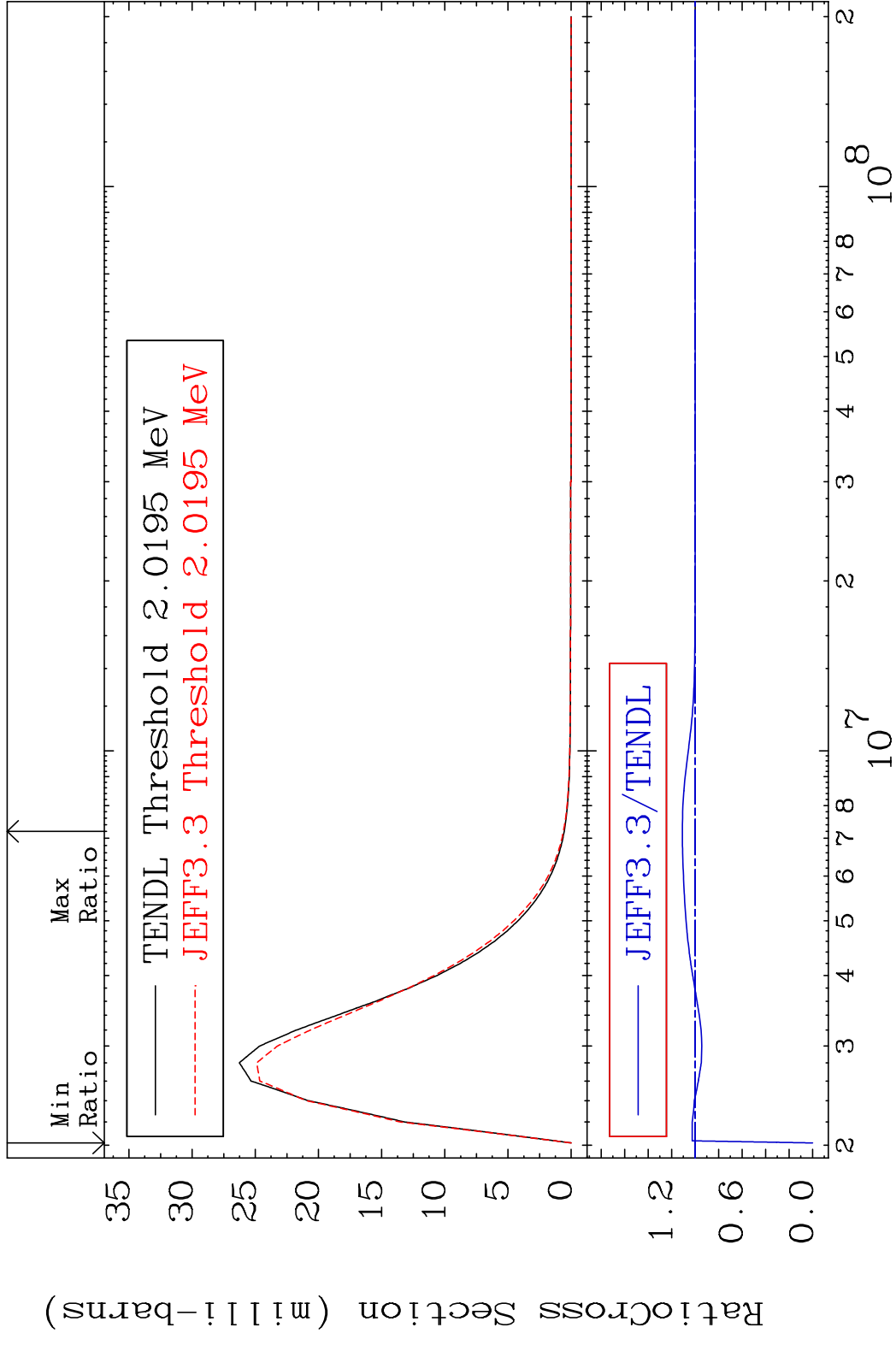
MAT 3125 MT= 63 (n, n') Level 31-Ga-69
 Cross Section -3.354 To 9.885 %



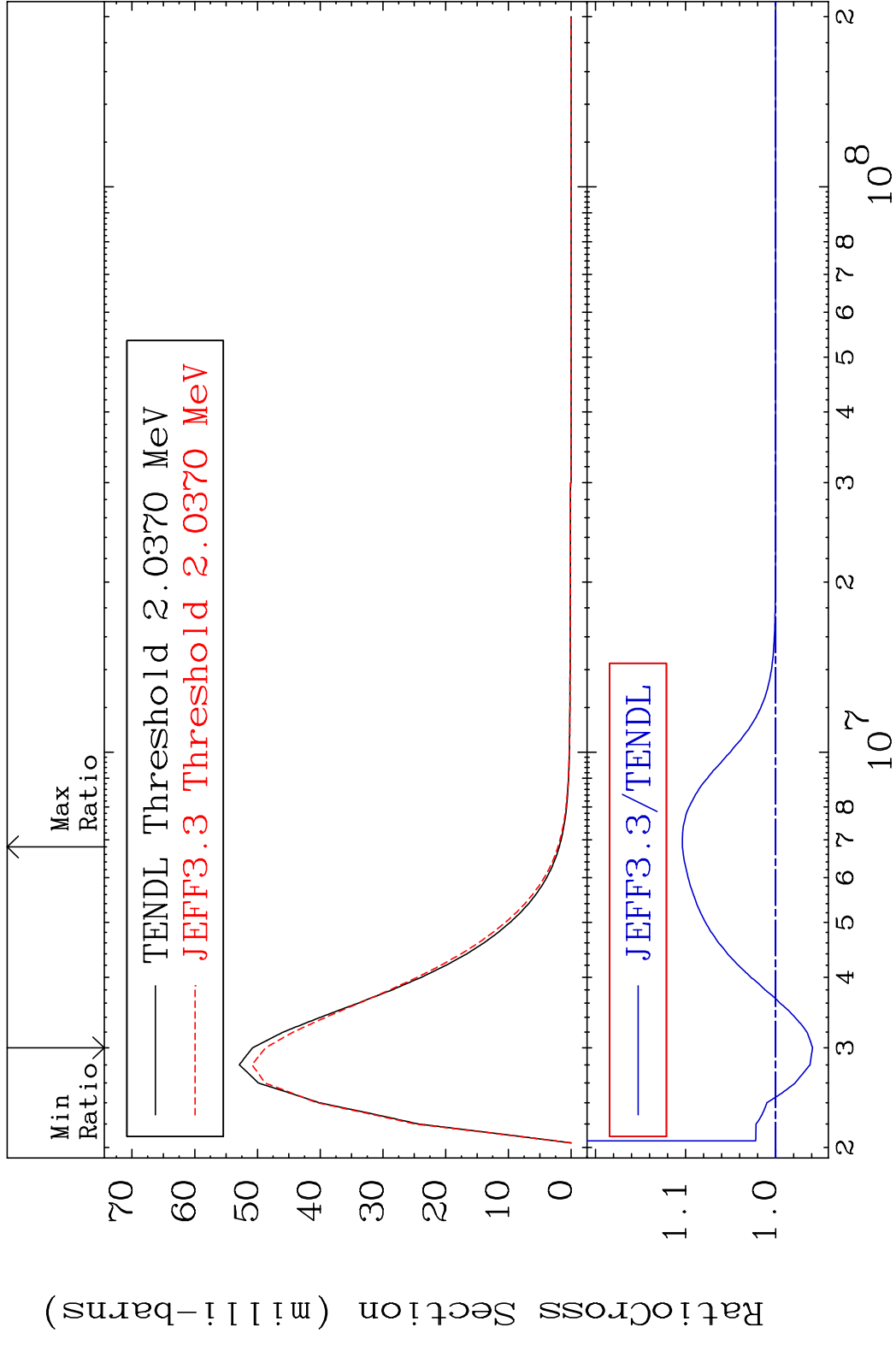
MAT 3125 MT= 64 (n,n') Level 31-Ga-69
 Cross Section -100.0 To 11.72 %



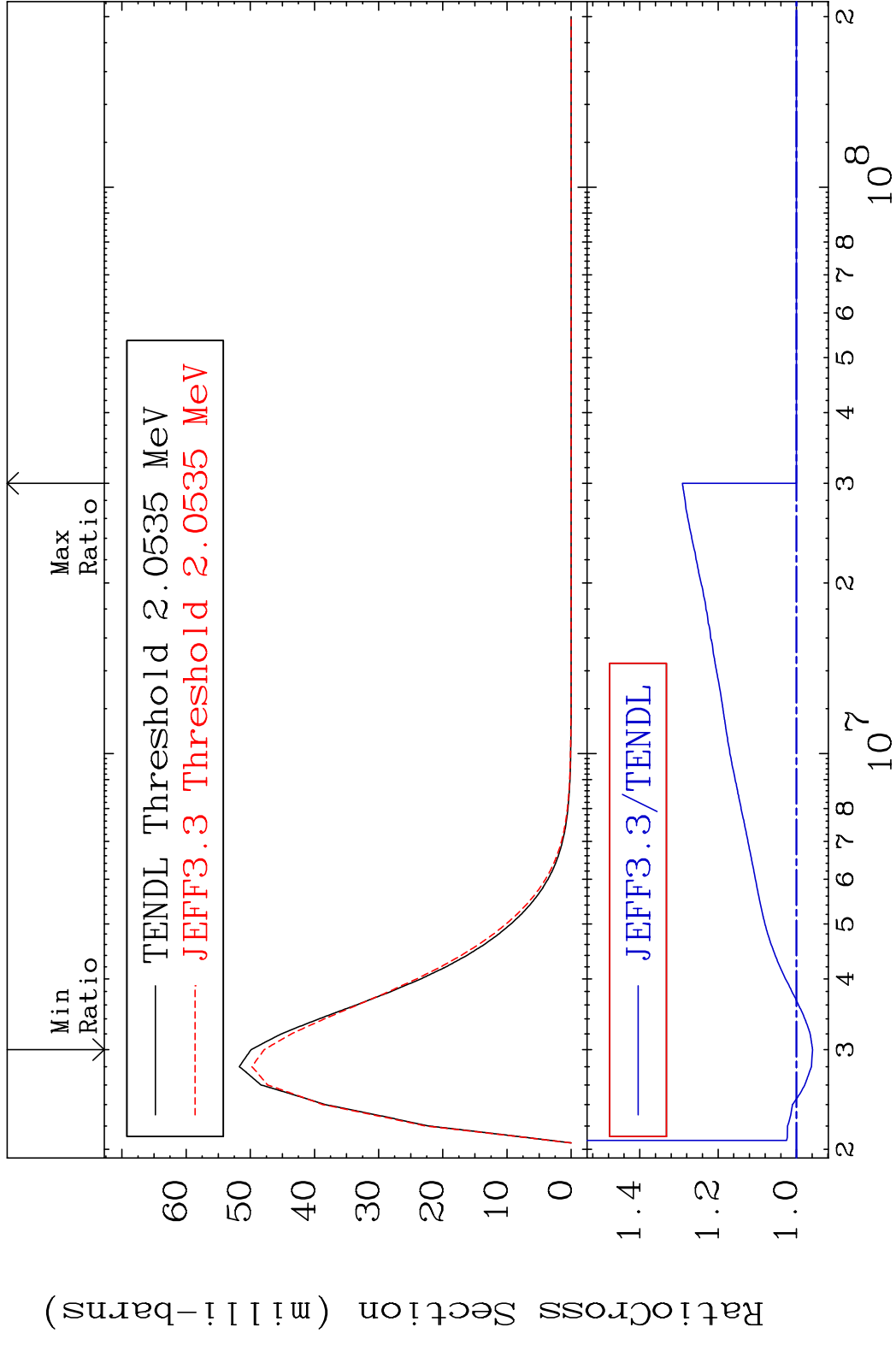
MAT 3125 MT= 65 (n,n') Level 31-Ga-69
 Cross Section -100.0 To 10.88 %



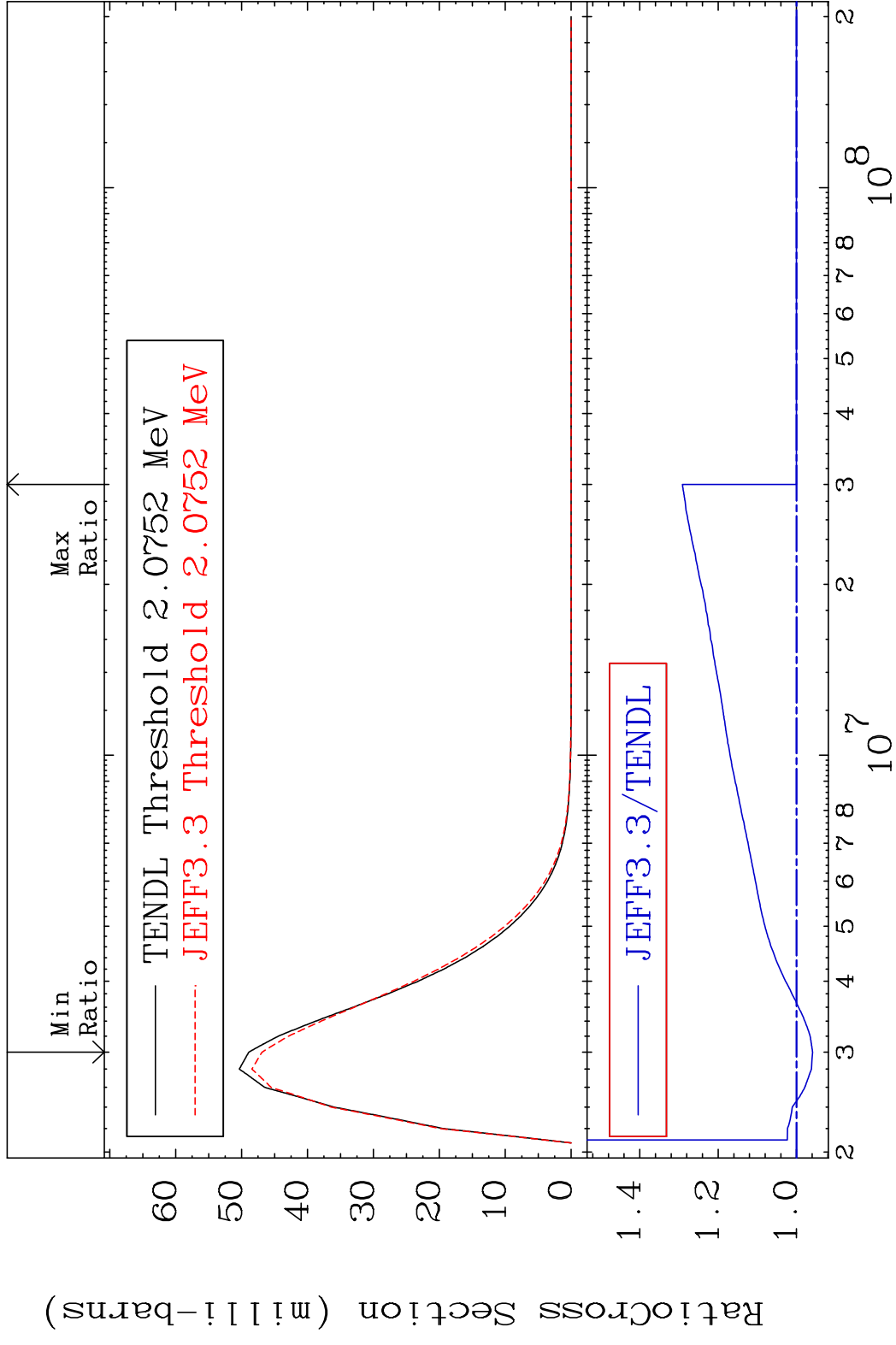
MAT 3125 MT= 66 (n,n') Level 31-Ga-69
 Cross Section -4.106 To 10.36 %



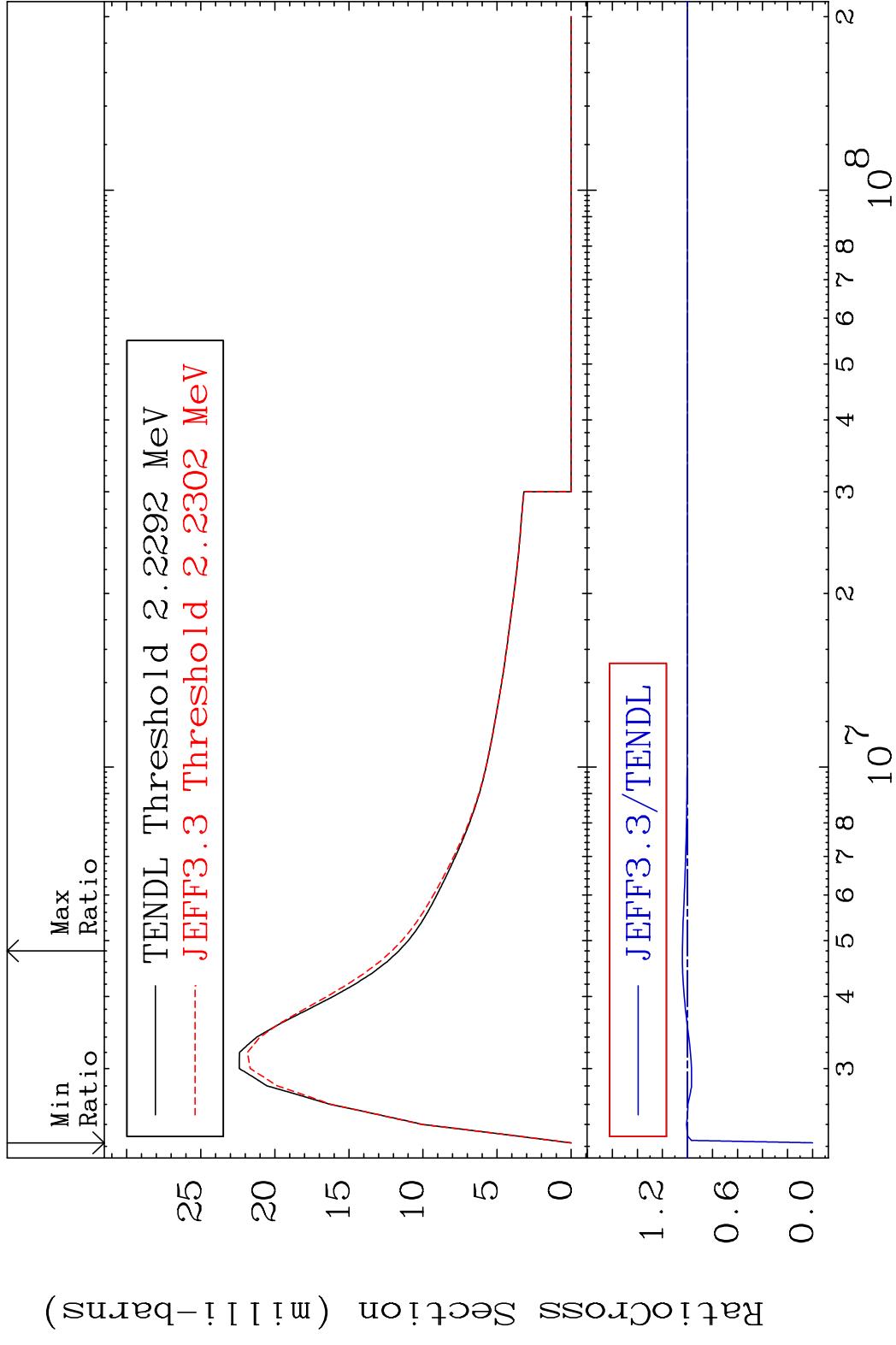
MAT 3125 MT= 67 (n, n') Level 31-Ga-69
 Cross Section -4.105 To 29.13 %



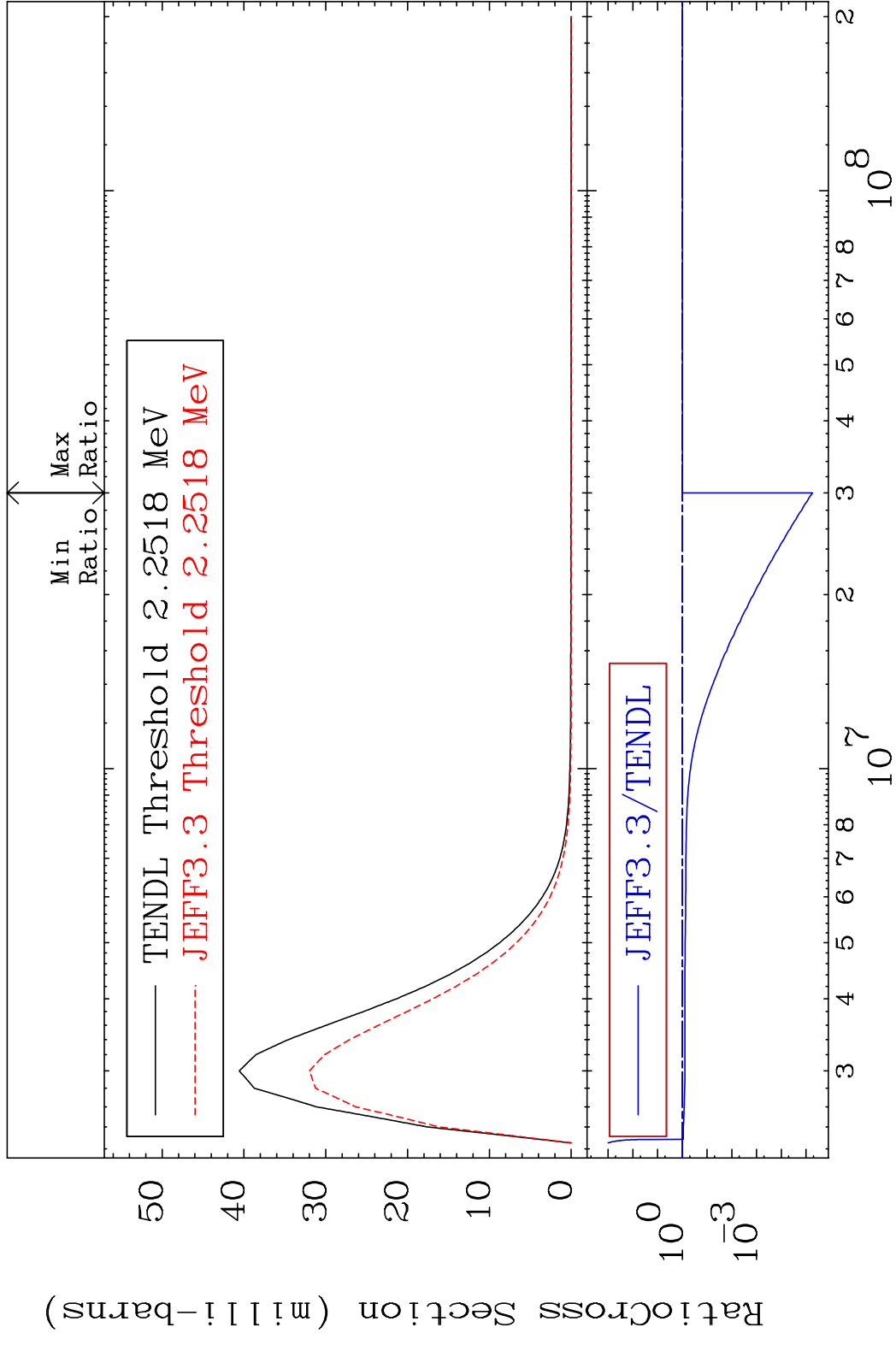
MAT 3125 MT= 68 (n, n') Level 31-Ga-69
 Cross Section -4.095 To 29.13 %



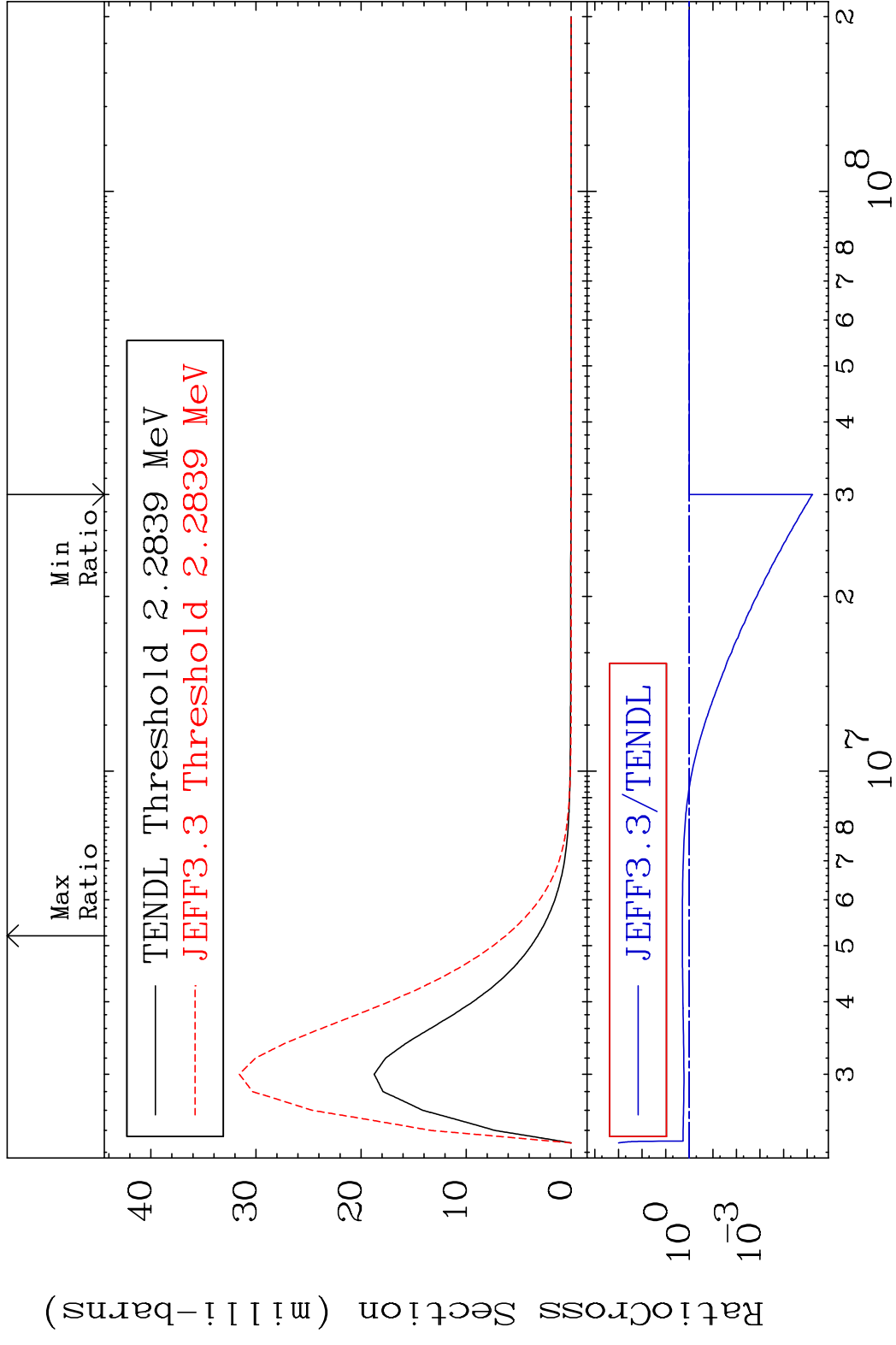
MAT 3125 MT= 69 (n, n') Level 31-Ga-69
 Cross Section -100.0 To 4.057 %



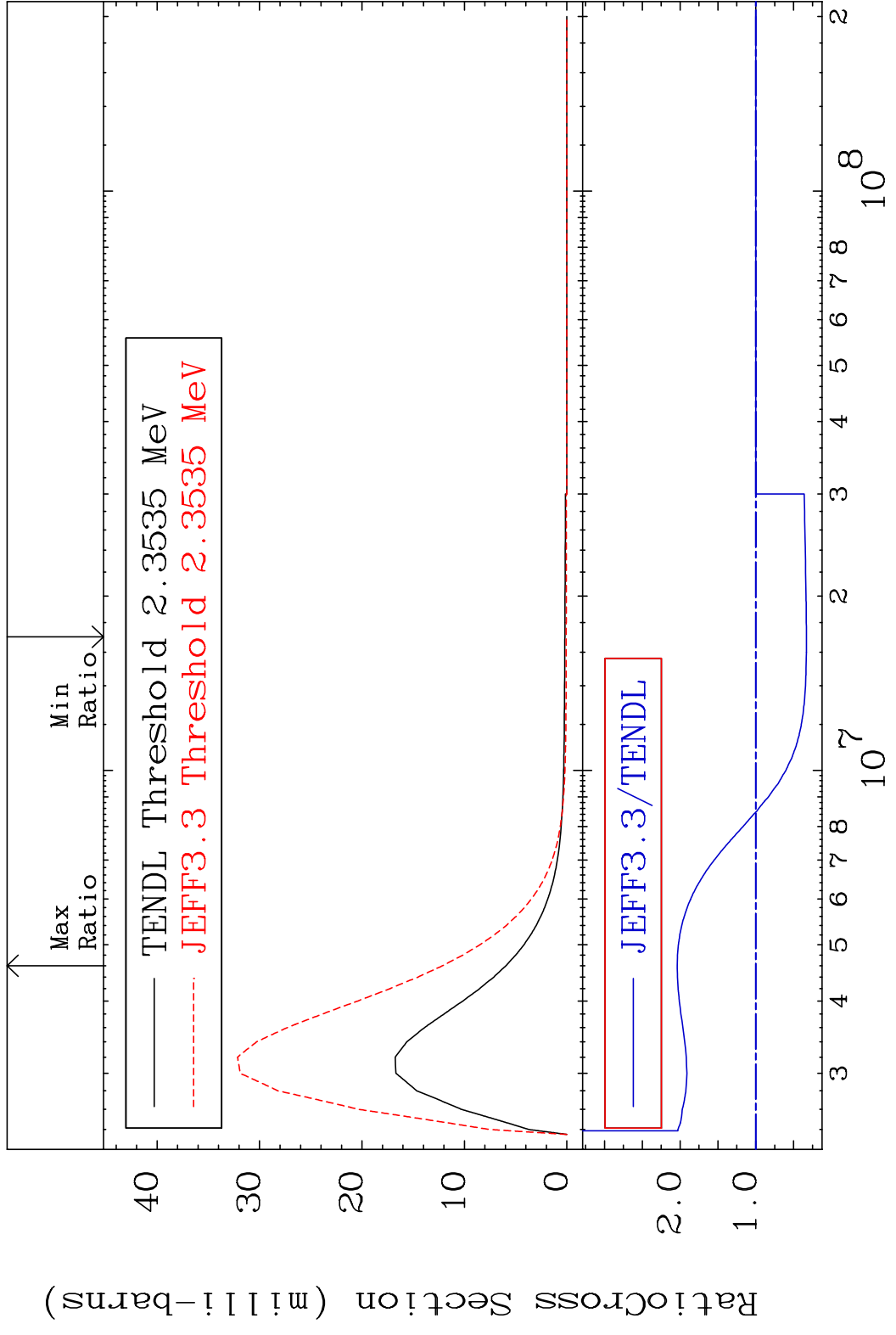
MAT 3125 MT= 70 (n, n') Level 31-Ga-69
 Cross Section -100.0 To 0.000 %



MAT 3125 MT= 71 (n, n') Level 31-Ga-69
 Cross Section -100.0 To 95.84 %



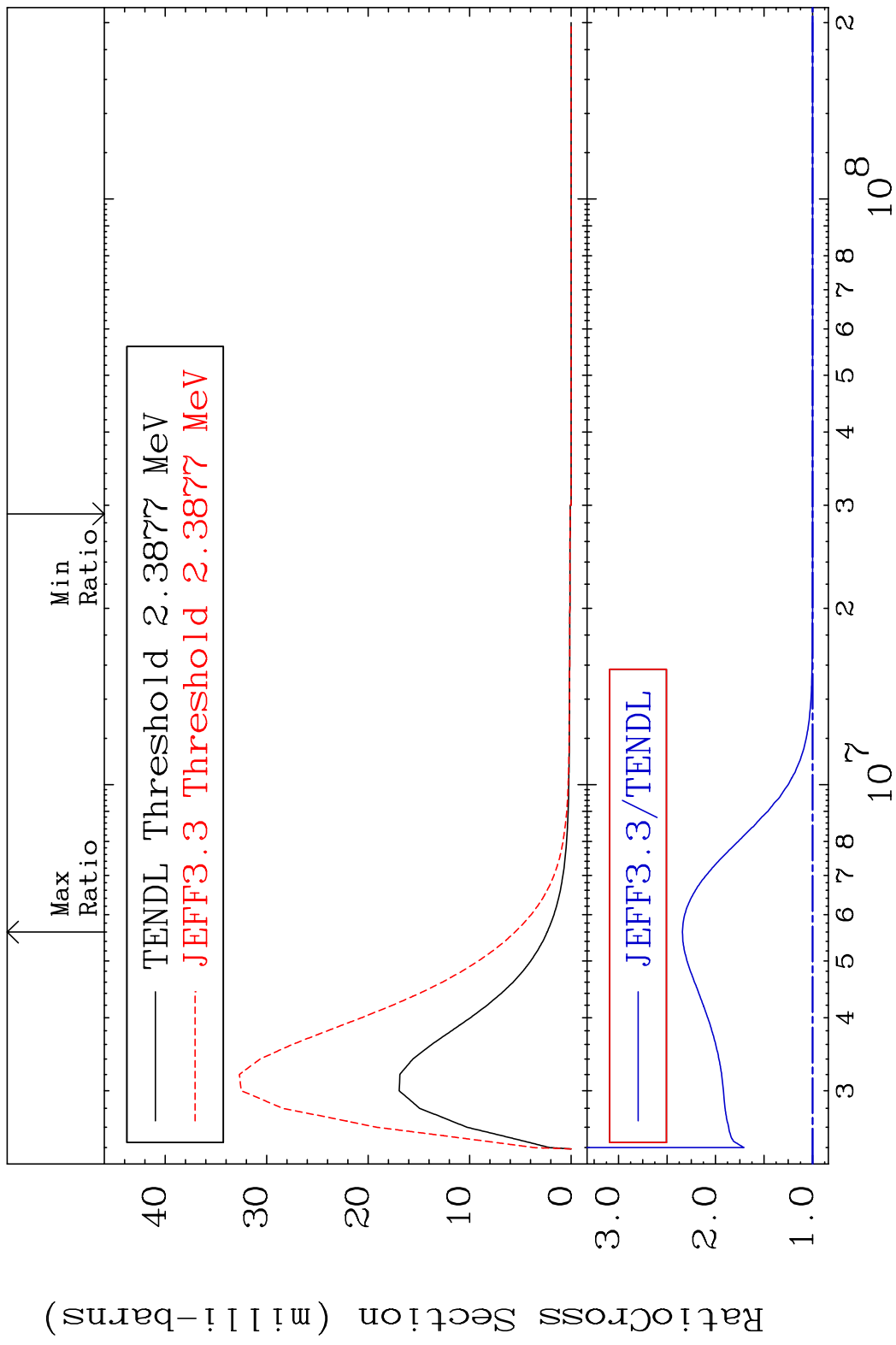
MAT 3125 MT= 72 (n, n') Level 31-Ga-69
 Cross Section -66.98 To 103.9 %



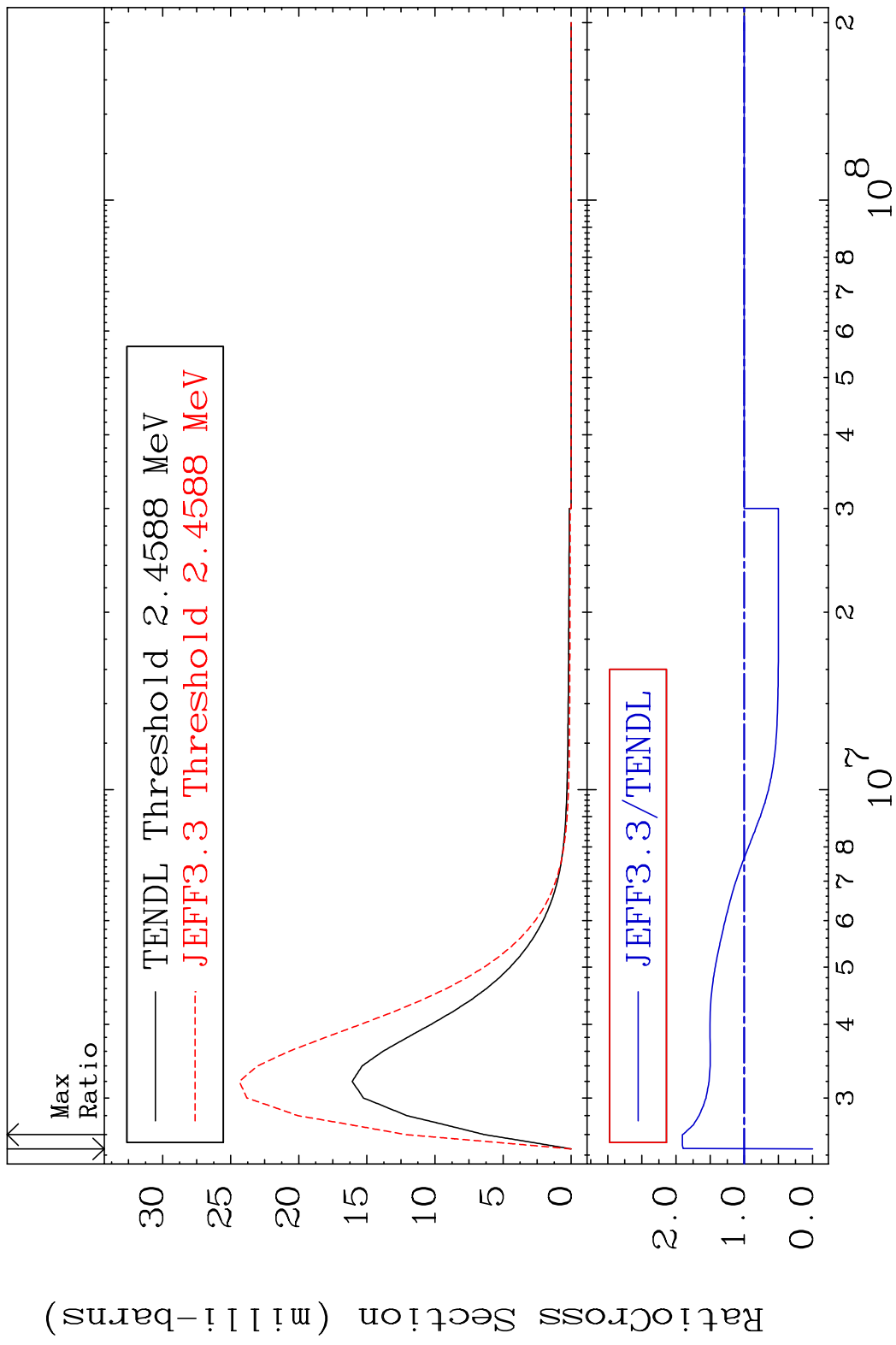
40

Incident Energy (eV) 31-Ga-69

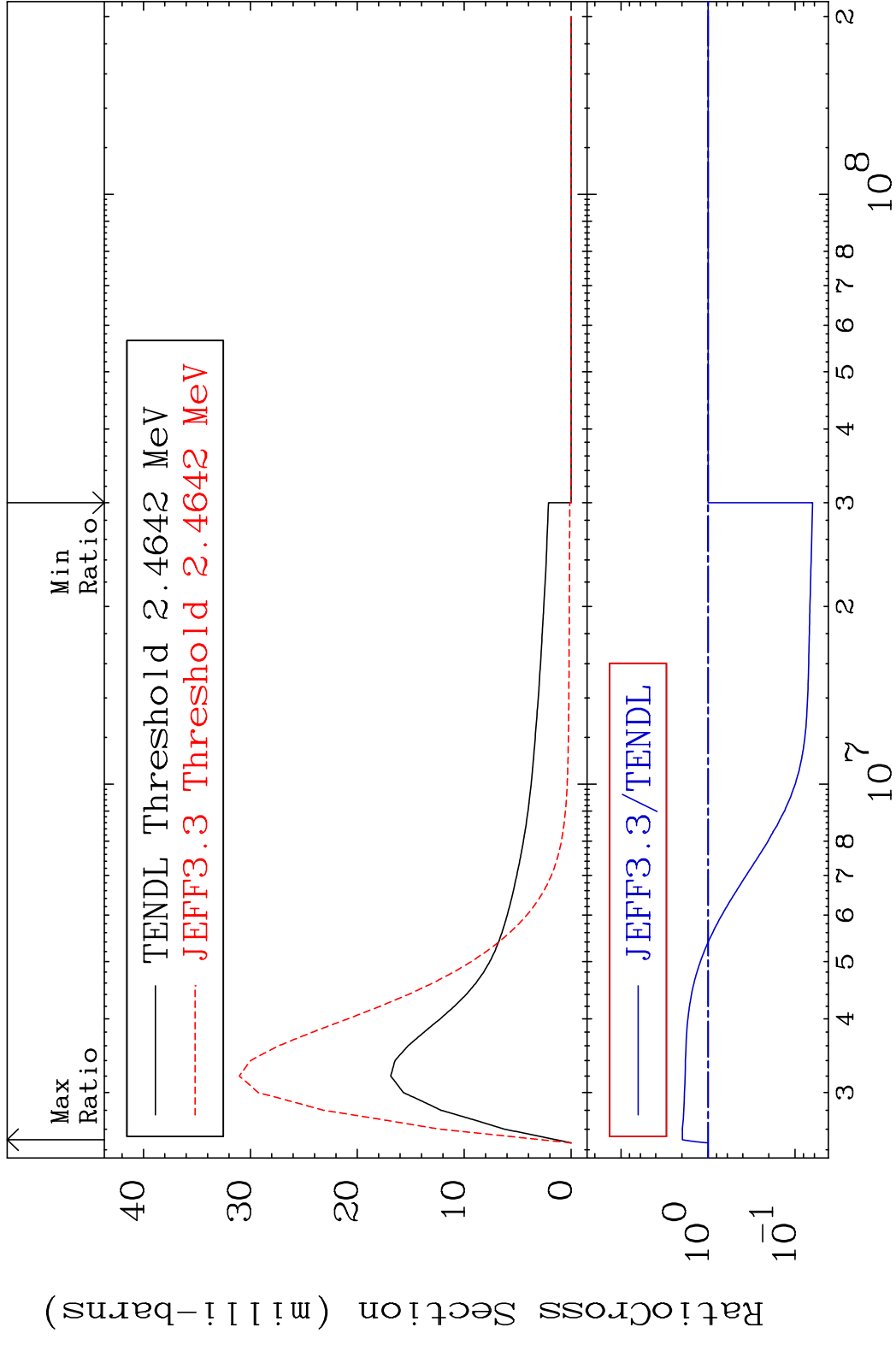
MAT 3125 MT= 73 (n, n') Level 31-Ga-69
 Cross Section 0.000 To 134.2 %



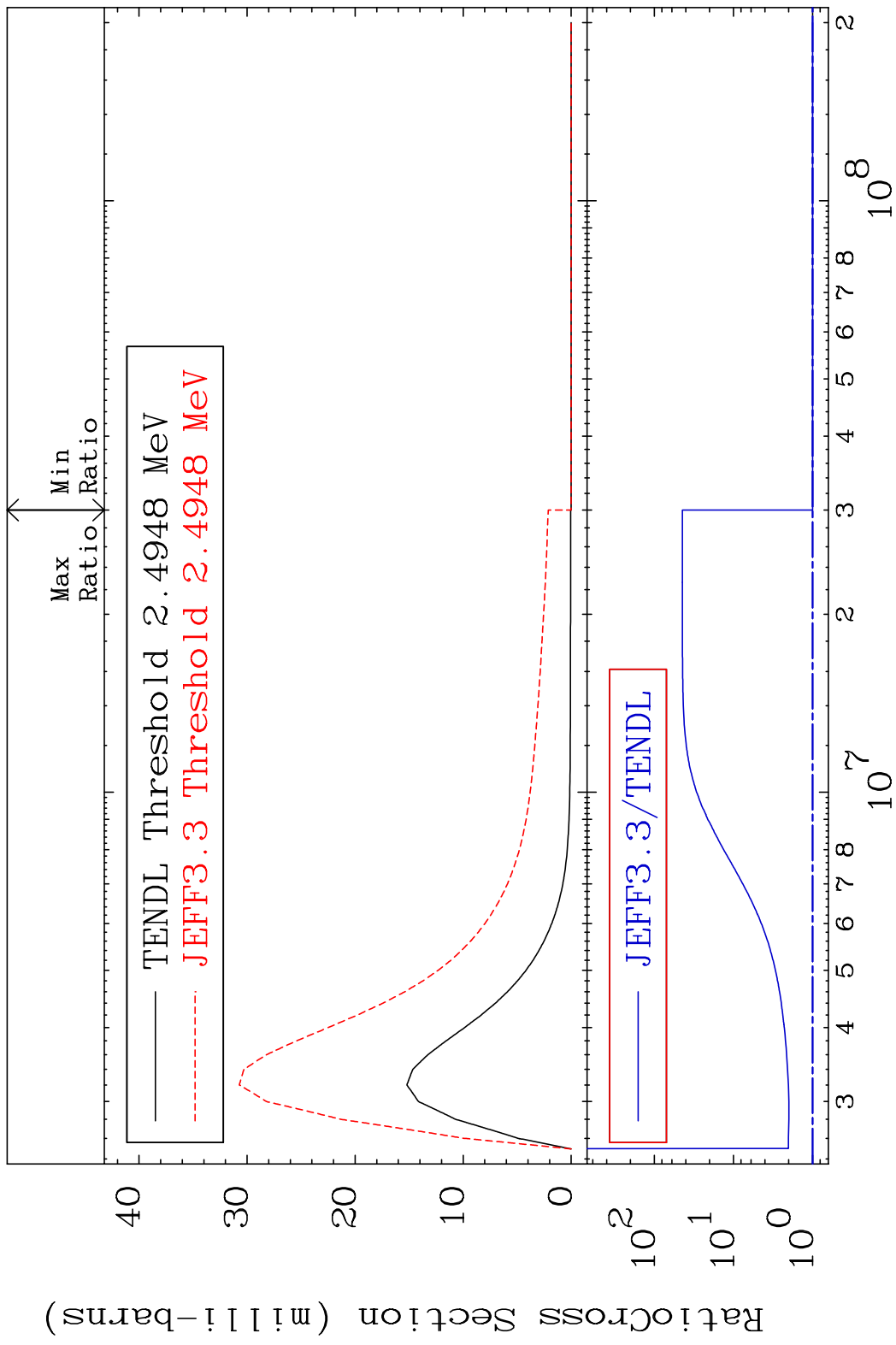
MAT 3125 MT= 74 (n, n') Level 31-Ga-69
 Cross Section -100.0 To 90.68 %



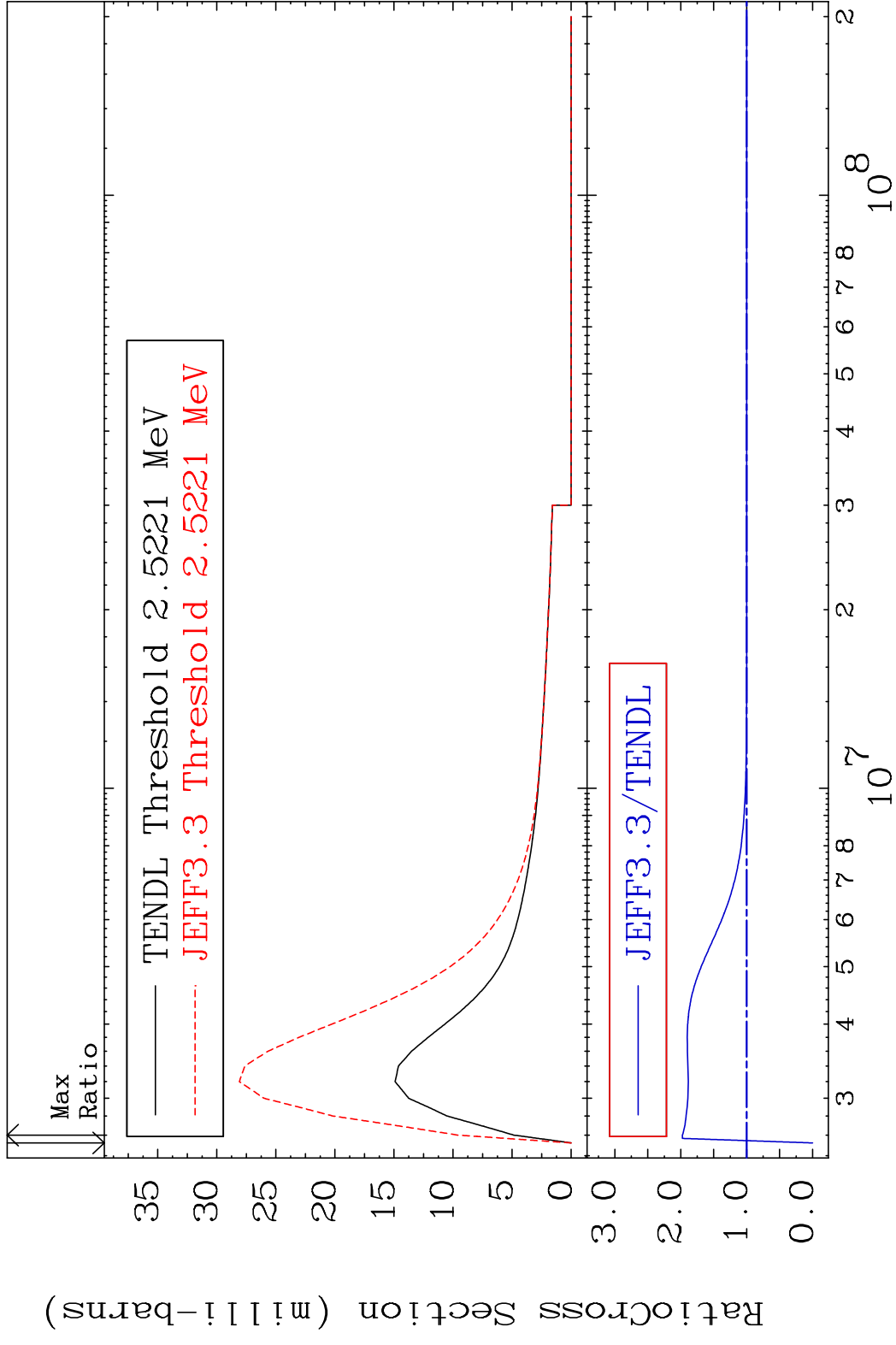
MAT 3125 MT= 75 (n,n') Level 31-Ga-69
 Cross Section -93.70 To 97.43 %



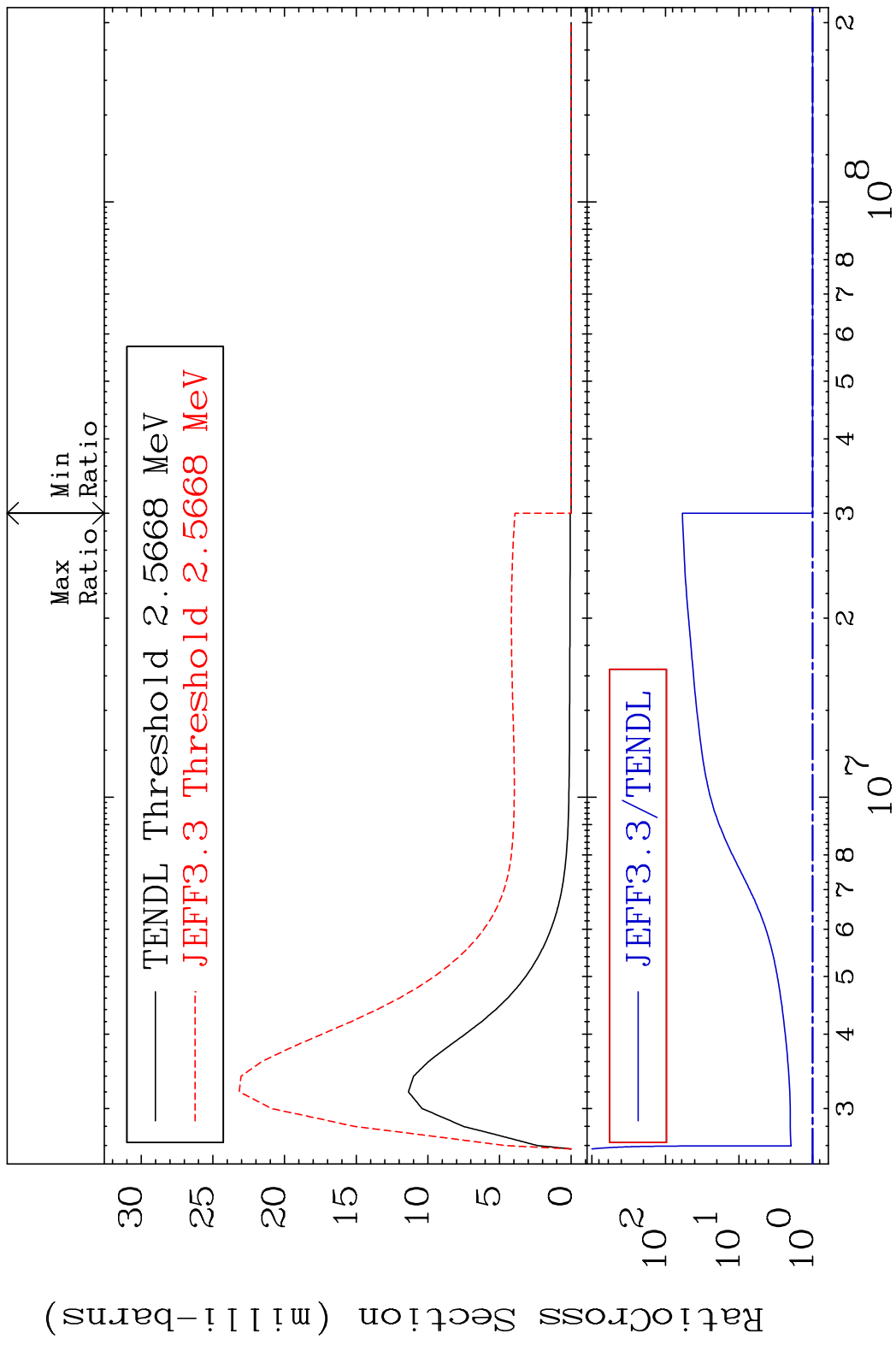
MAT 3125 MT= 76 (n, n') Level 31-Ga-69
 Cross Section 0.000 To 4319. %



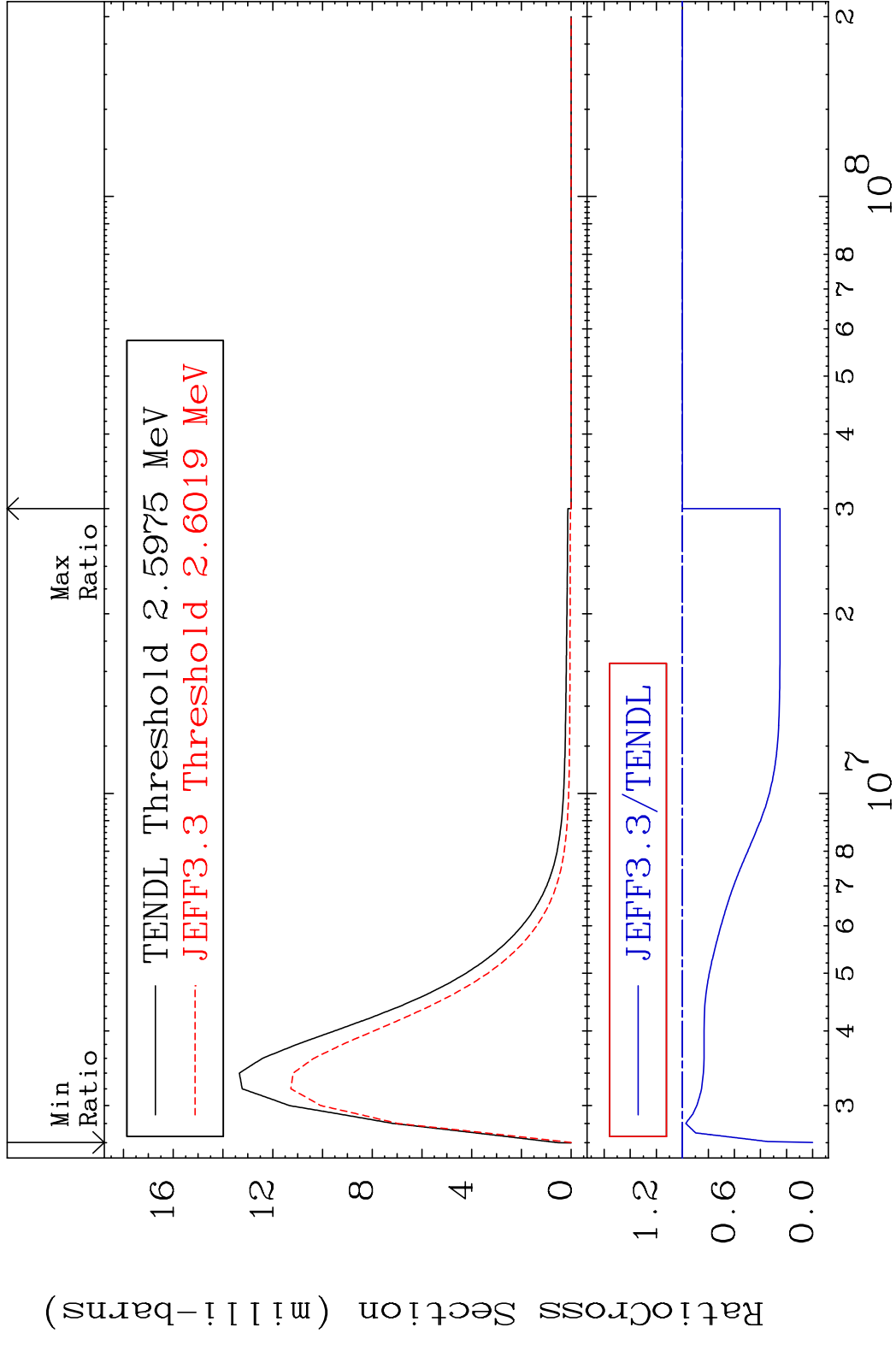
MAT 3125 MT= 77 (n,n') Level 31-Ga-69
 Cross Section -100.0 To 97.59 %



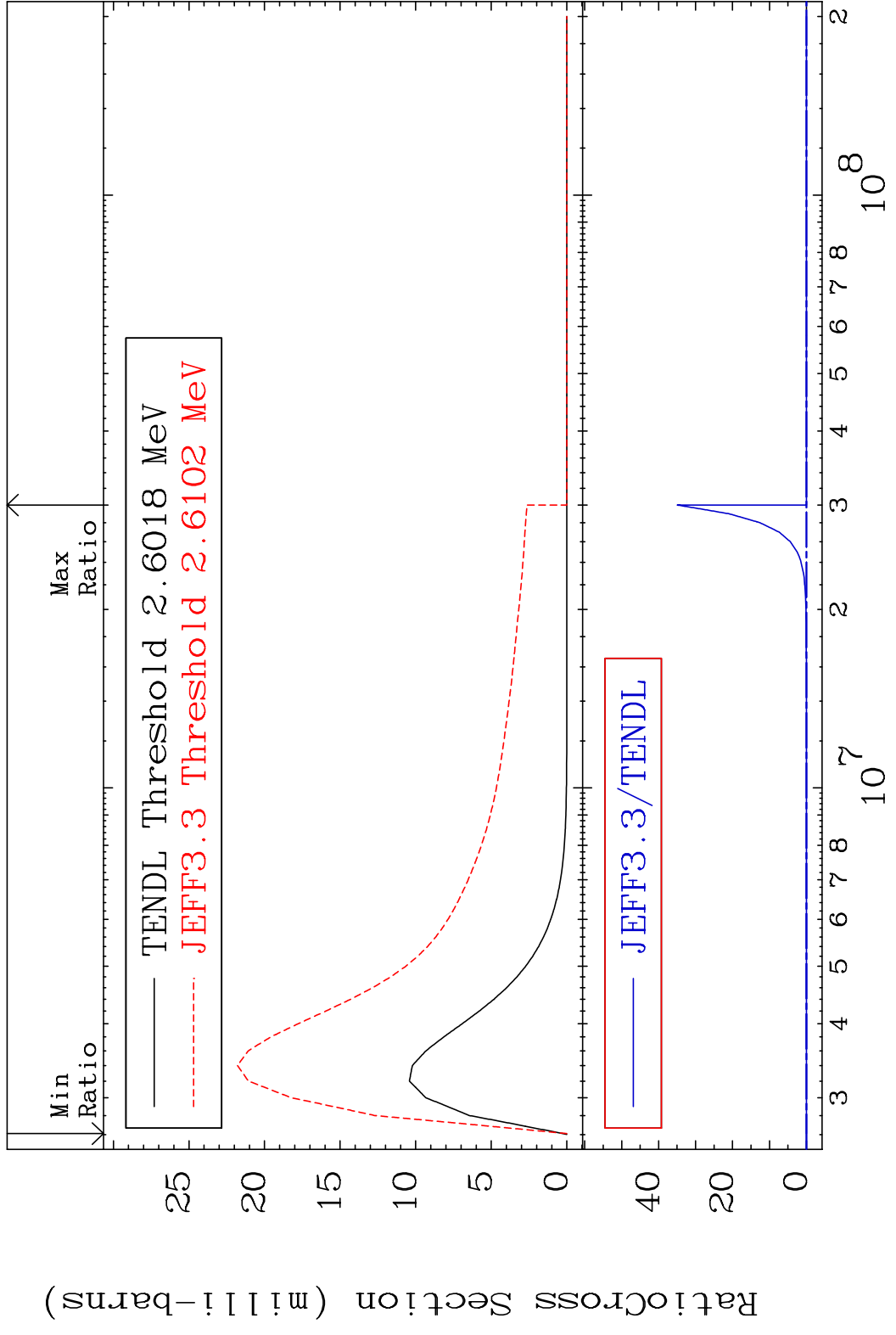
MAT 3125 MT= 78 (n, n') Level 31-Ga-69
 Cross Section 0.000 To 5792. %



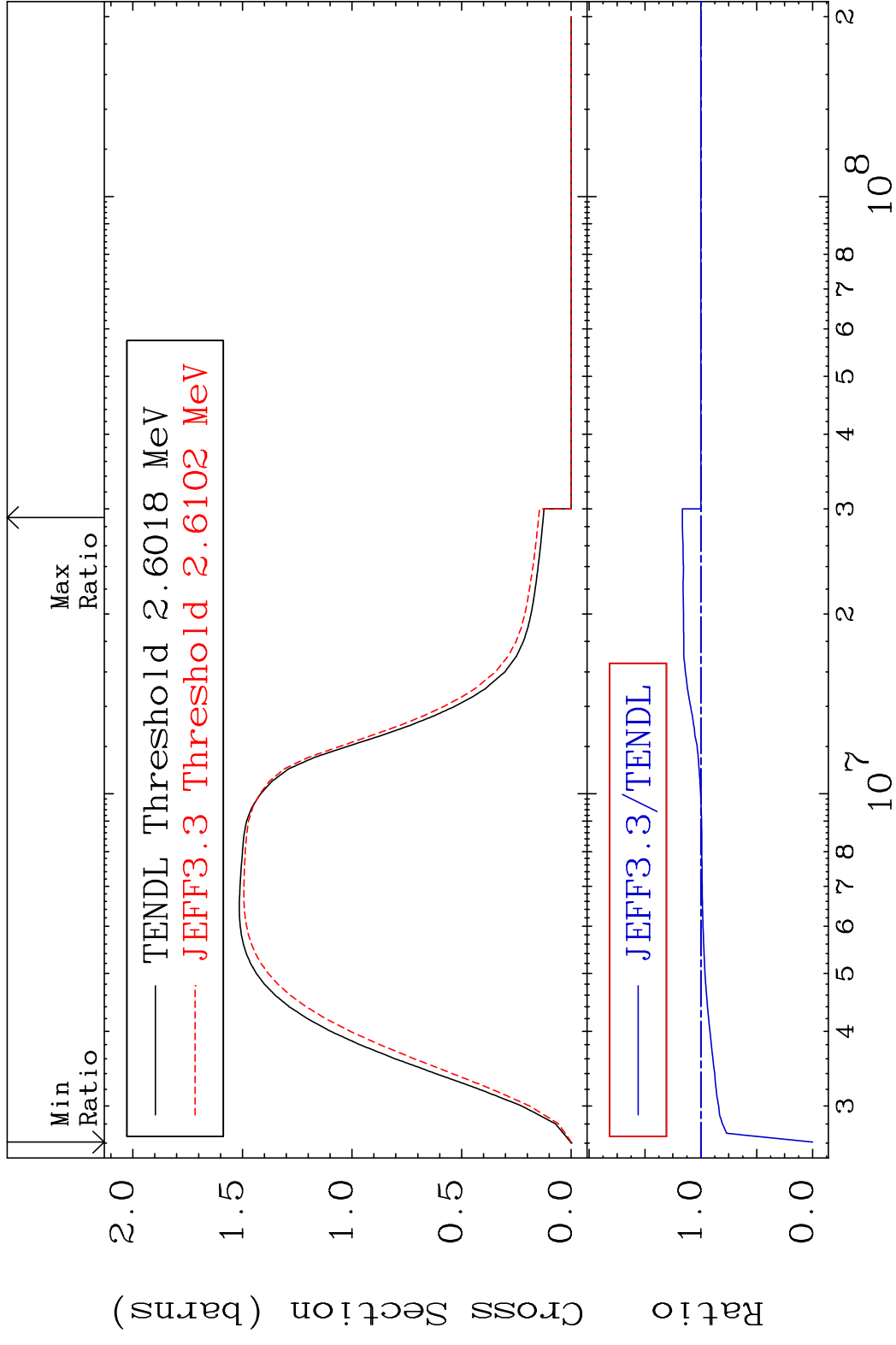
MAT 3125 MT= 79 (n, n') Level 31-Ga-69
 Cross Section -100.0 To 0.000 %



MAT 3125 MT= 80 (n, n') Level 31-Ga-69
 Cross Section -100.0 To 9999. %



MAT 3125 (n, n') Continuum 31-Ga-69
 Cross Section -100.0 To 16.56 %

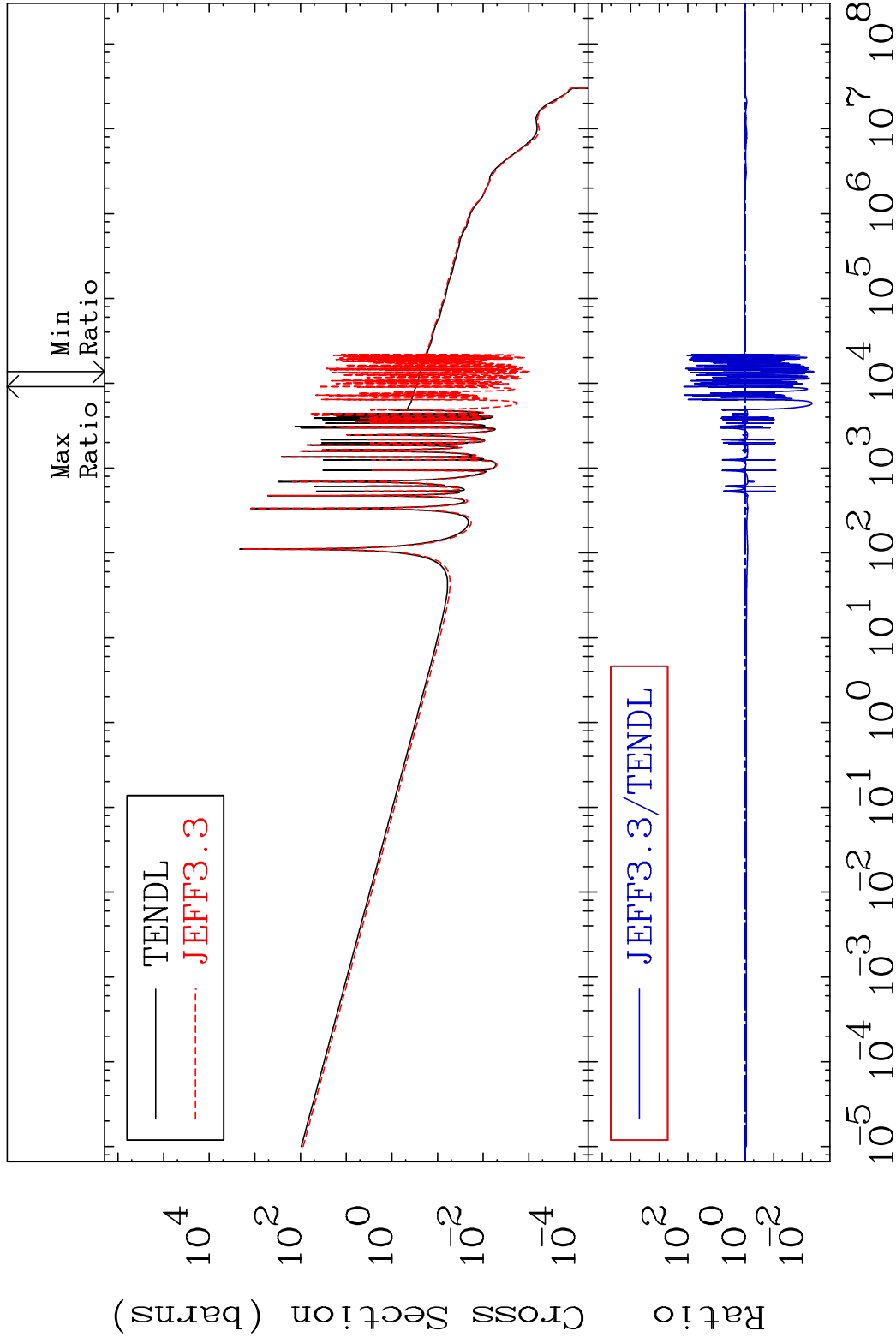


MAT 3125

(n, γ)

31-Ga-69

Cross Section -99.61 To 9999. %

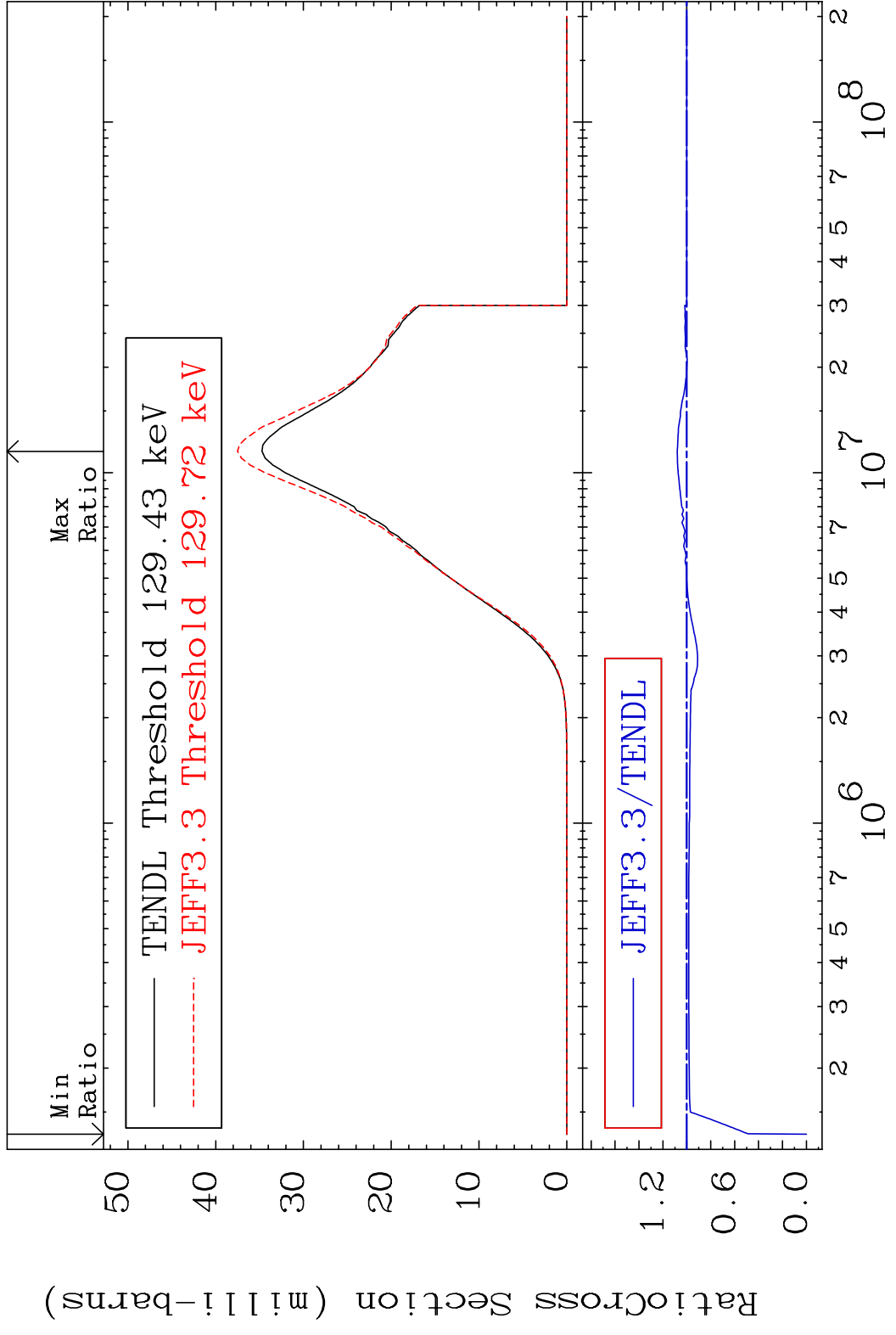


50

Incident Energy (eV)

31-Ga-69

MAT 3125 (n,p) 31-Ga-69
 Cross Section -100.0 To 8.047 %

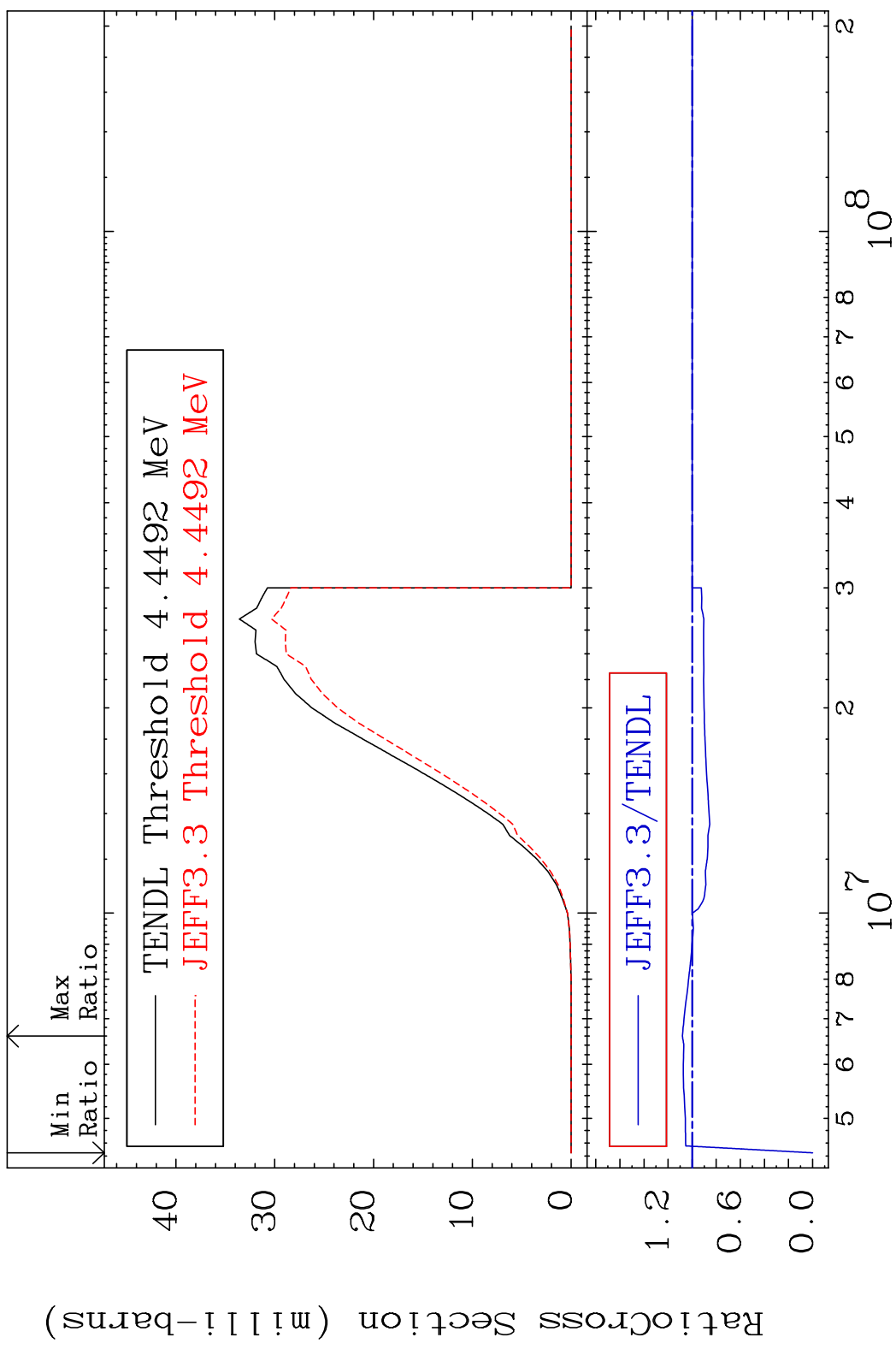


MAT 3125

(n, d)

31-Ga-69

Cross Section -100.0 To 8.141 %

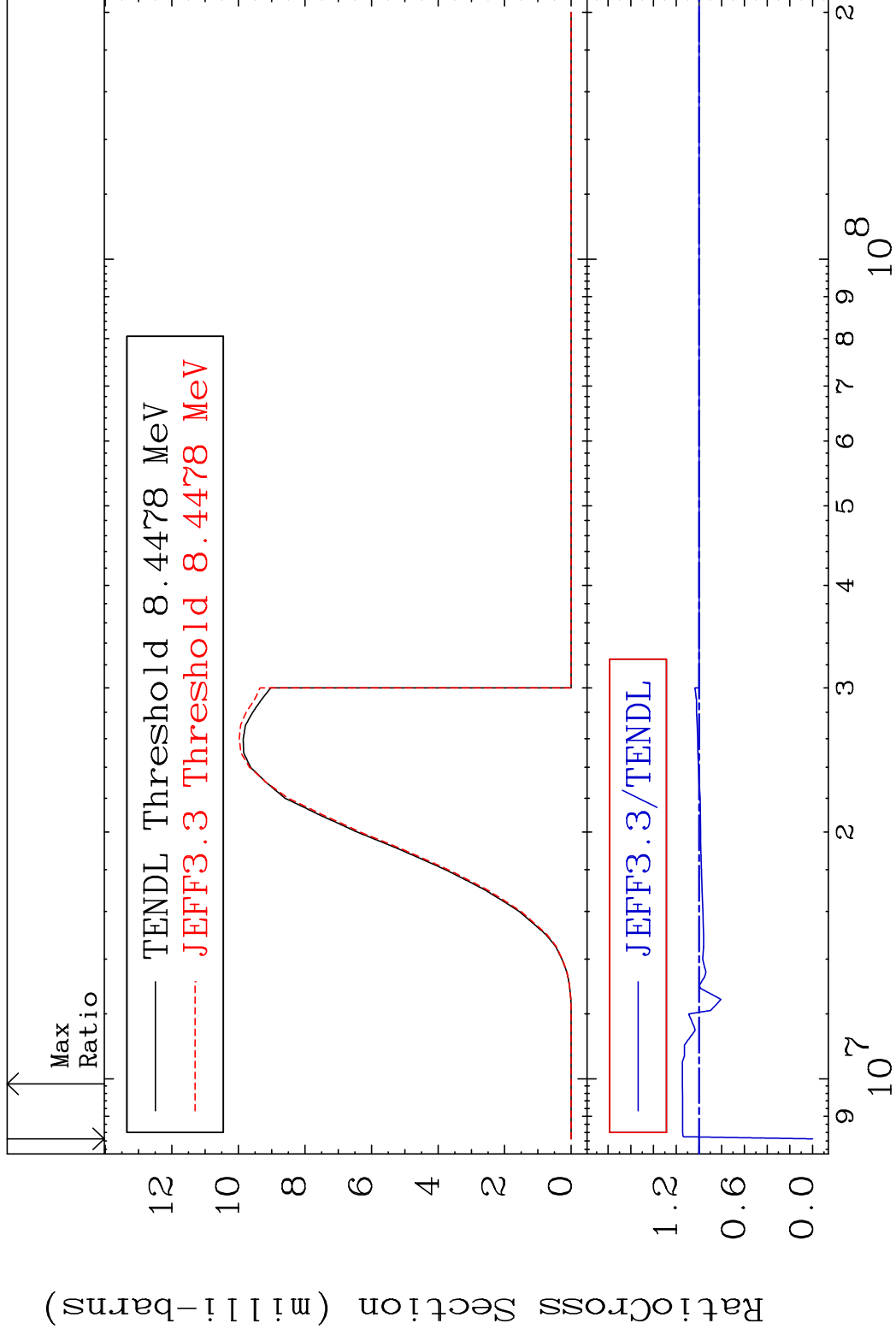


MAT 3125

(n, t)

31-Ga-69

Cross Section -100.0 To 14.61 %



53

Incident Energy (eV)

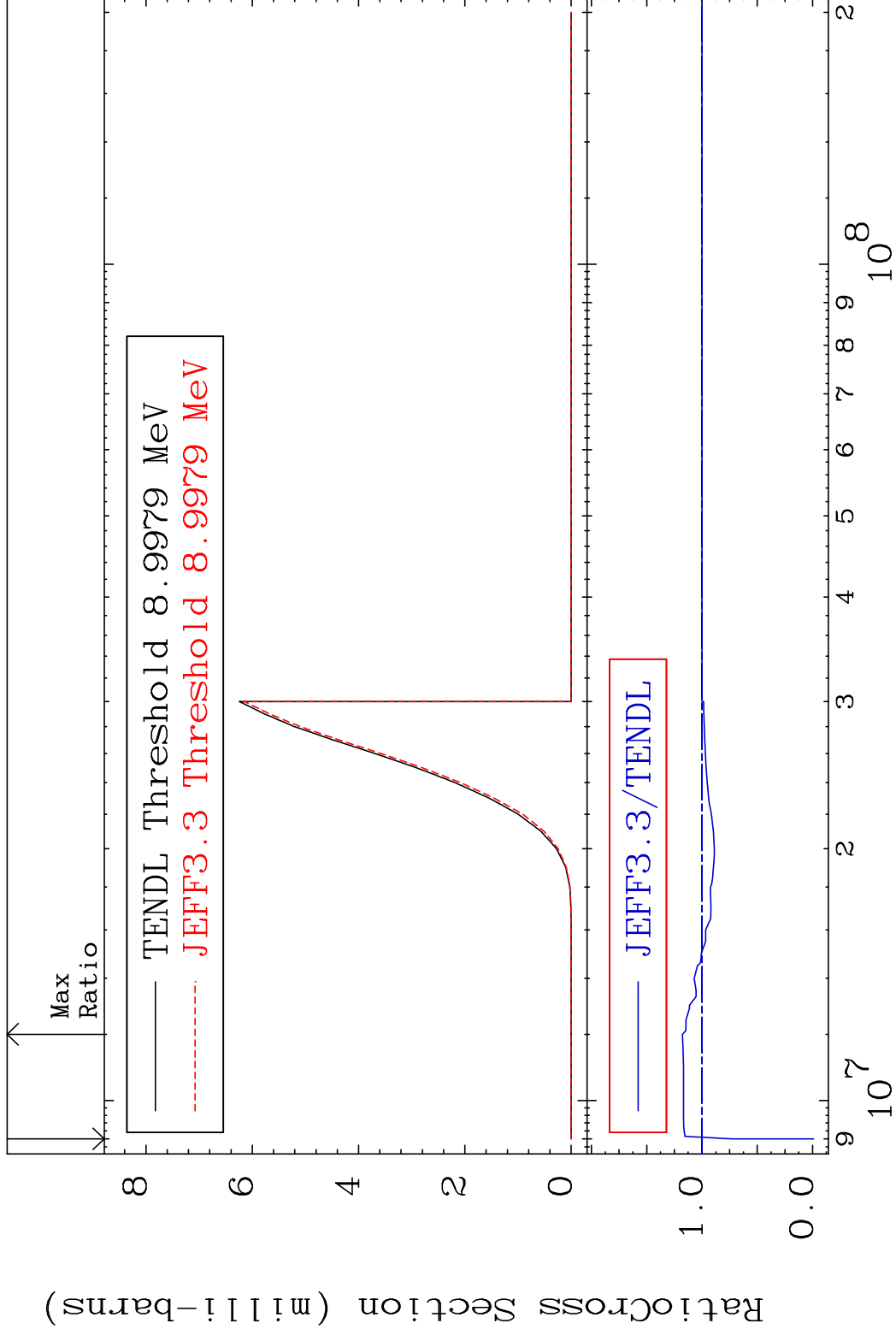
31-Ga-69

MAT 3125

(n, He-3)

31-Ga-69

Cross Section -100.0 To 17.78 %



54

Incident Energy (eV)

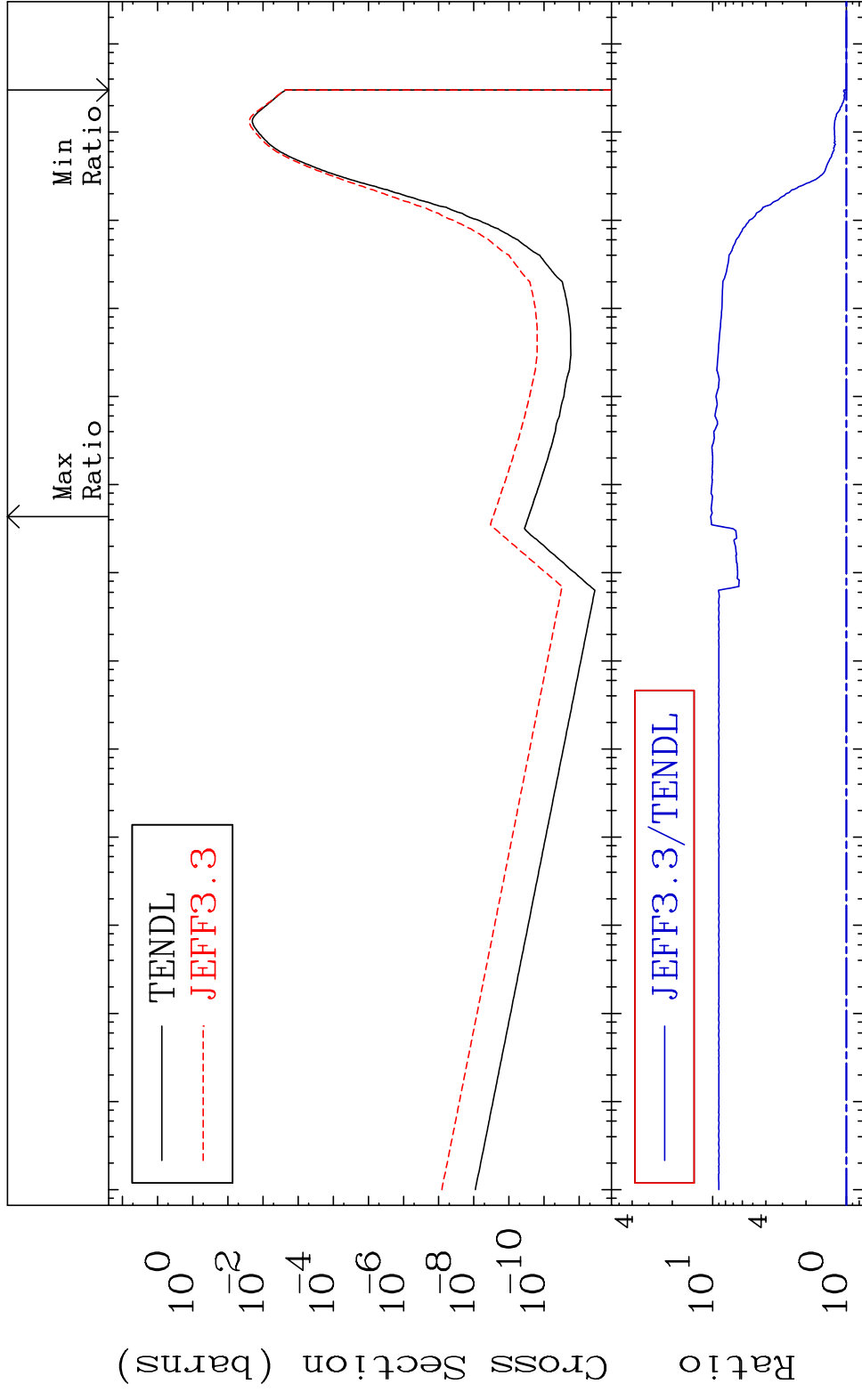
31-Ga-69

MAT 3125

31-Ga-69

(n, α)

Cross Section 0.000 To 933.6 %

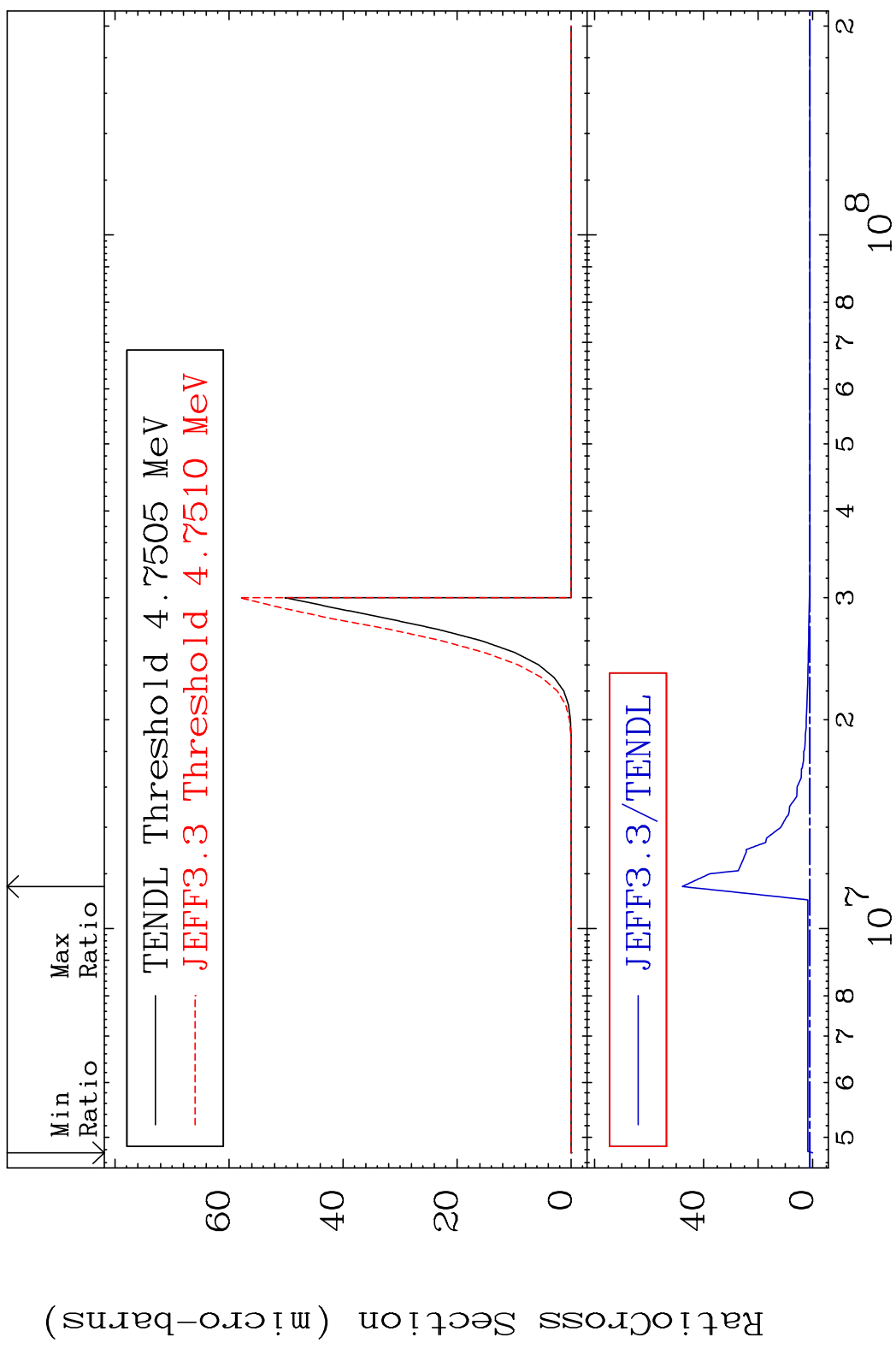


MAT 3125

(n,2α)

31-Ga-69

Cross Section -100.0 To 4678. %

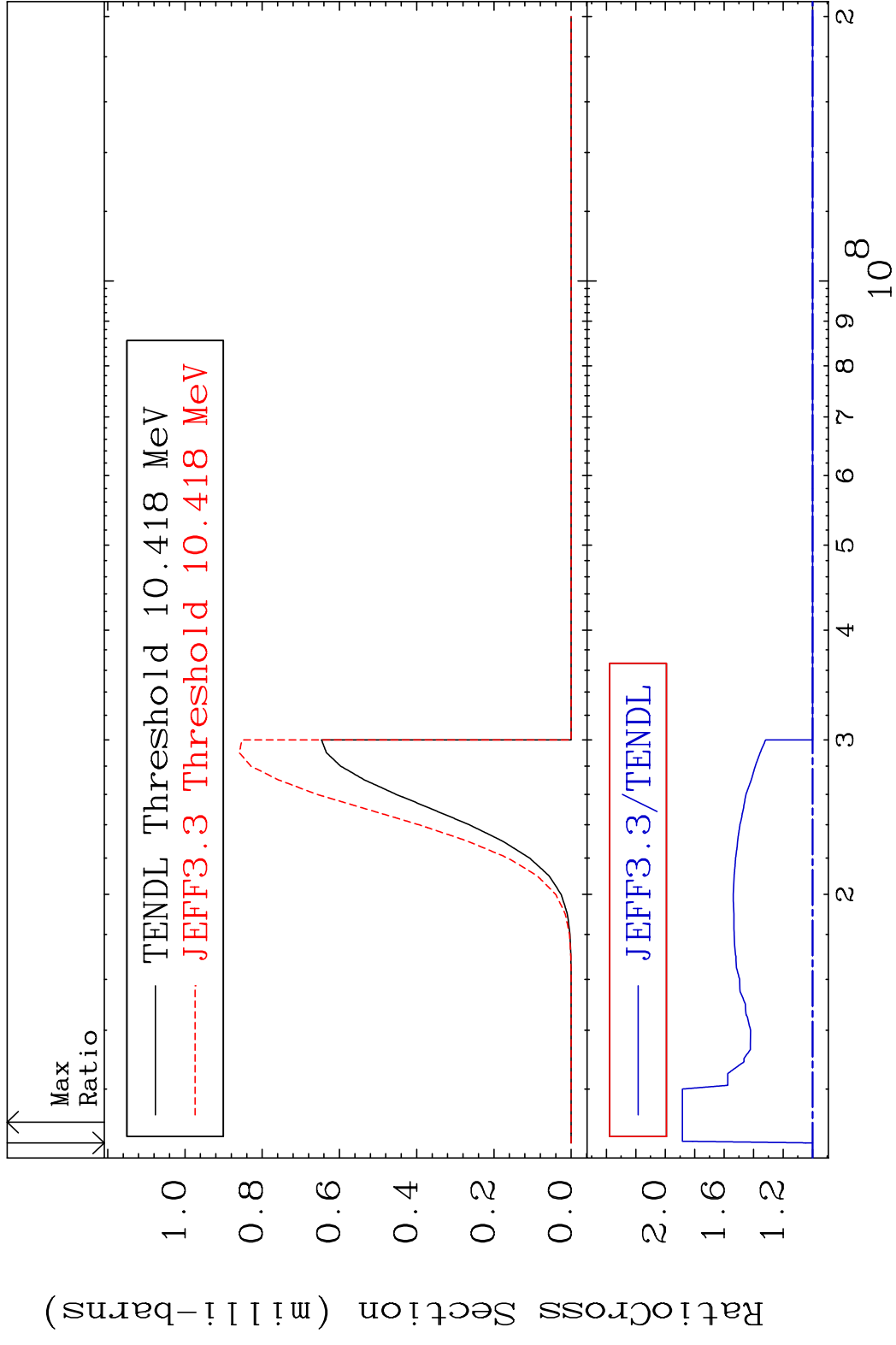


56

Incident Energy (eV)

31-Ga-69

MAT 3125 (n,2p) 31-Ga-69
 Cross Section 0.000 To 88.41 %

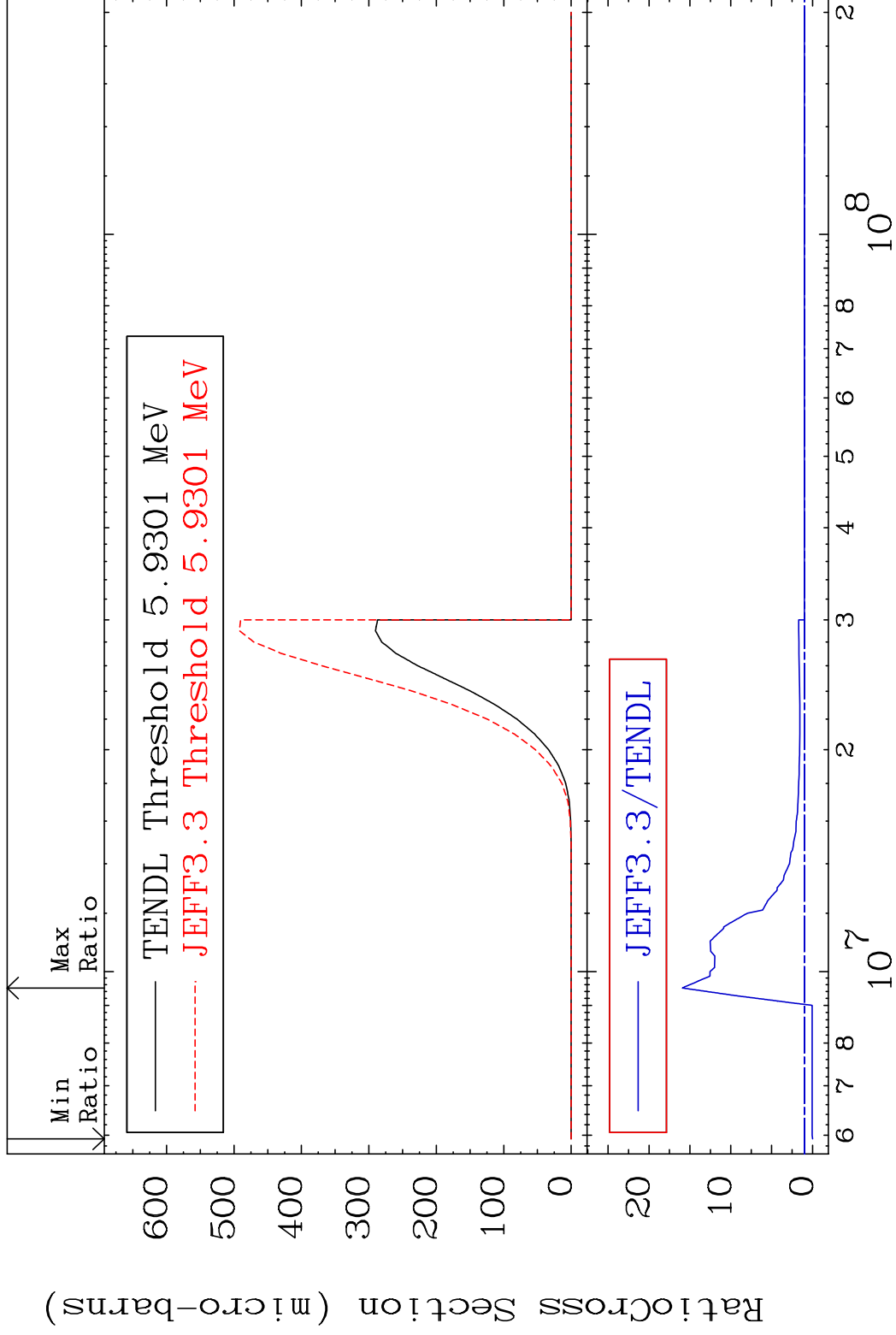


MAT 3125

(n,p) α

31-Ga-69

Cross Section -100.0 To 1492. %

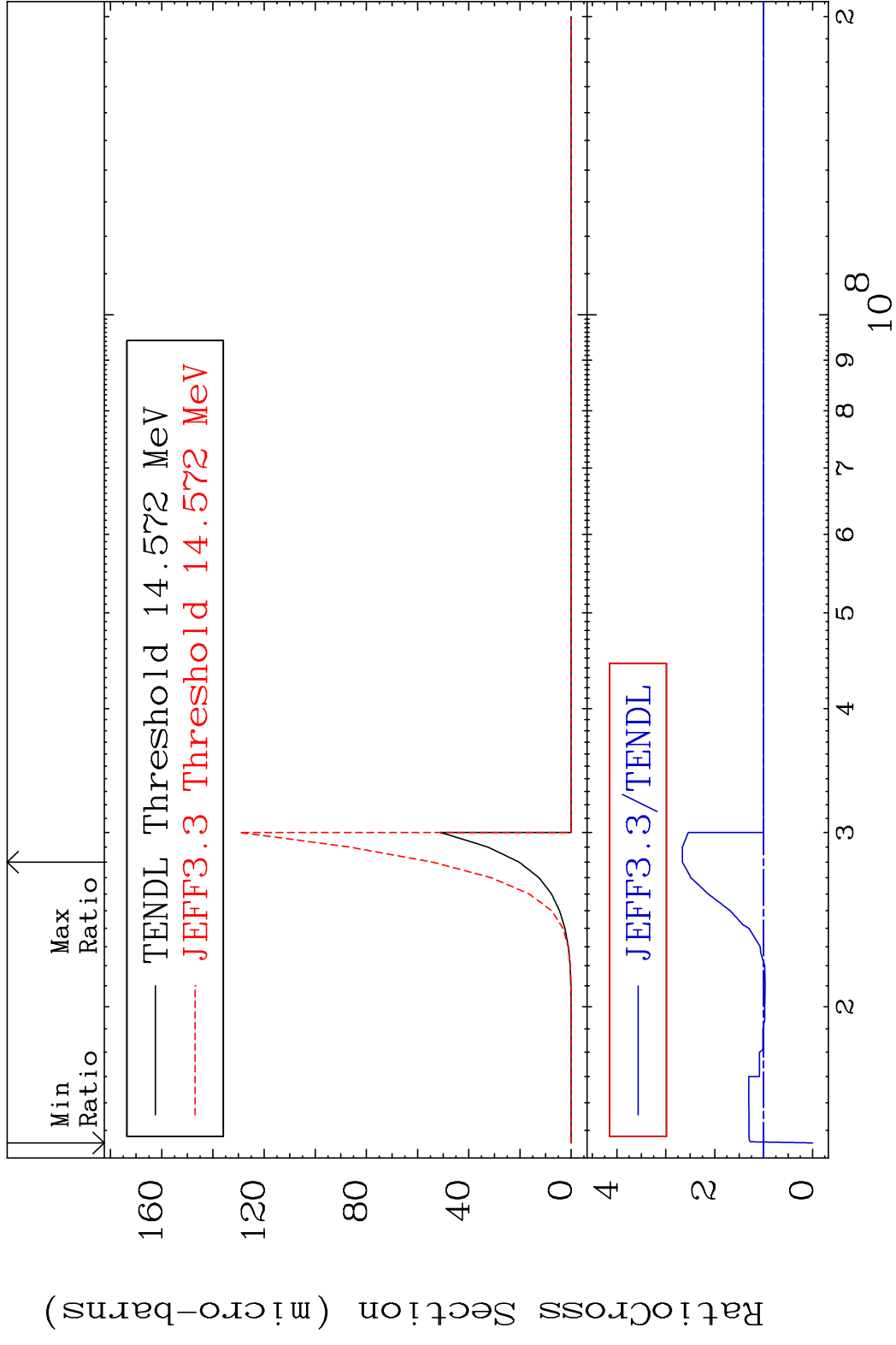


58

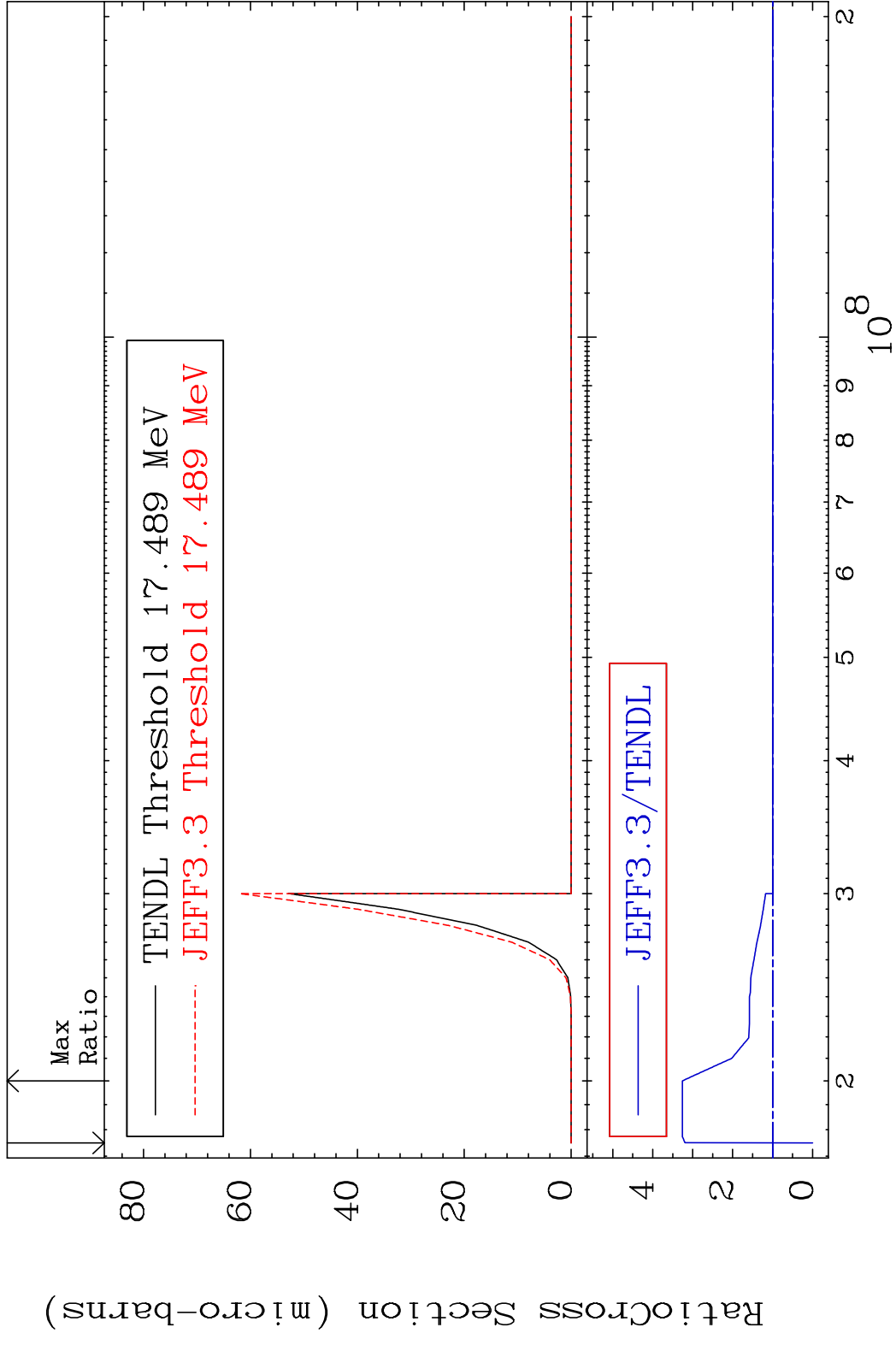
Incident Energy (eV)

31-Ga-69

MAT 3125 (n,p) d 31-Ga-69
 Cross Section -100.0 To 166.1 %



MAT 3125 (n,p) t 31-Ga-69
 Cross Section -100.0 To 225.8 %



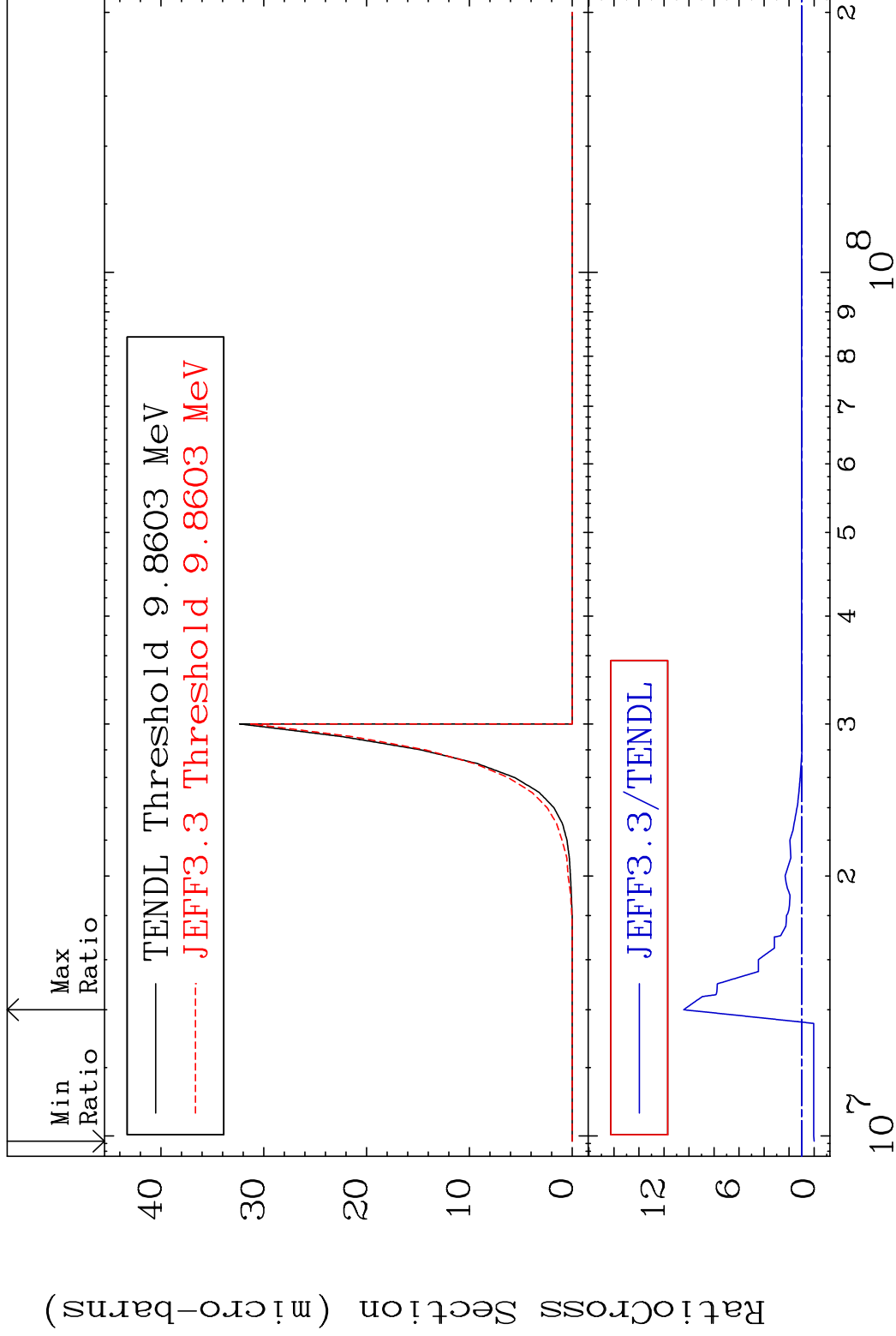
60 Incident Energy (eV) 31-Ga-69

MAT 3125

(n,d) α

31-Ga-69

Cross Section -100.0 To 943.0 %

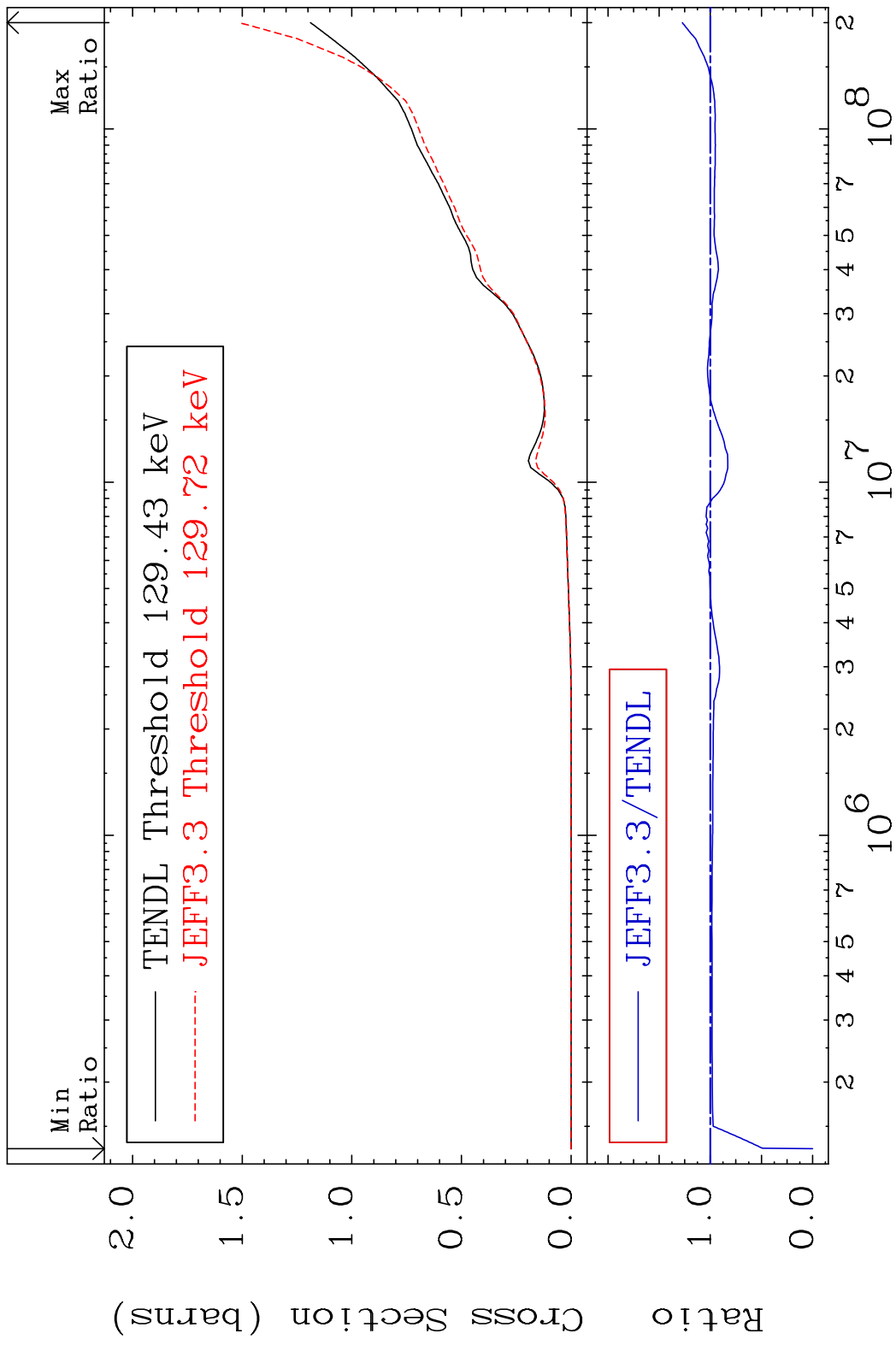


61

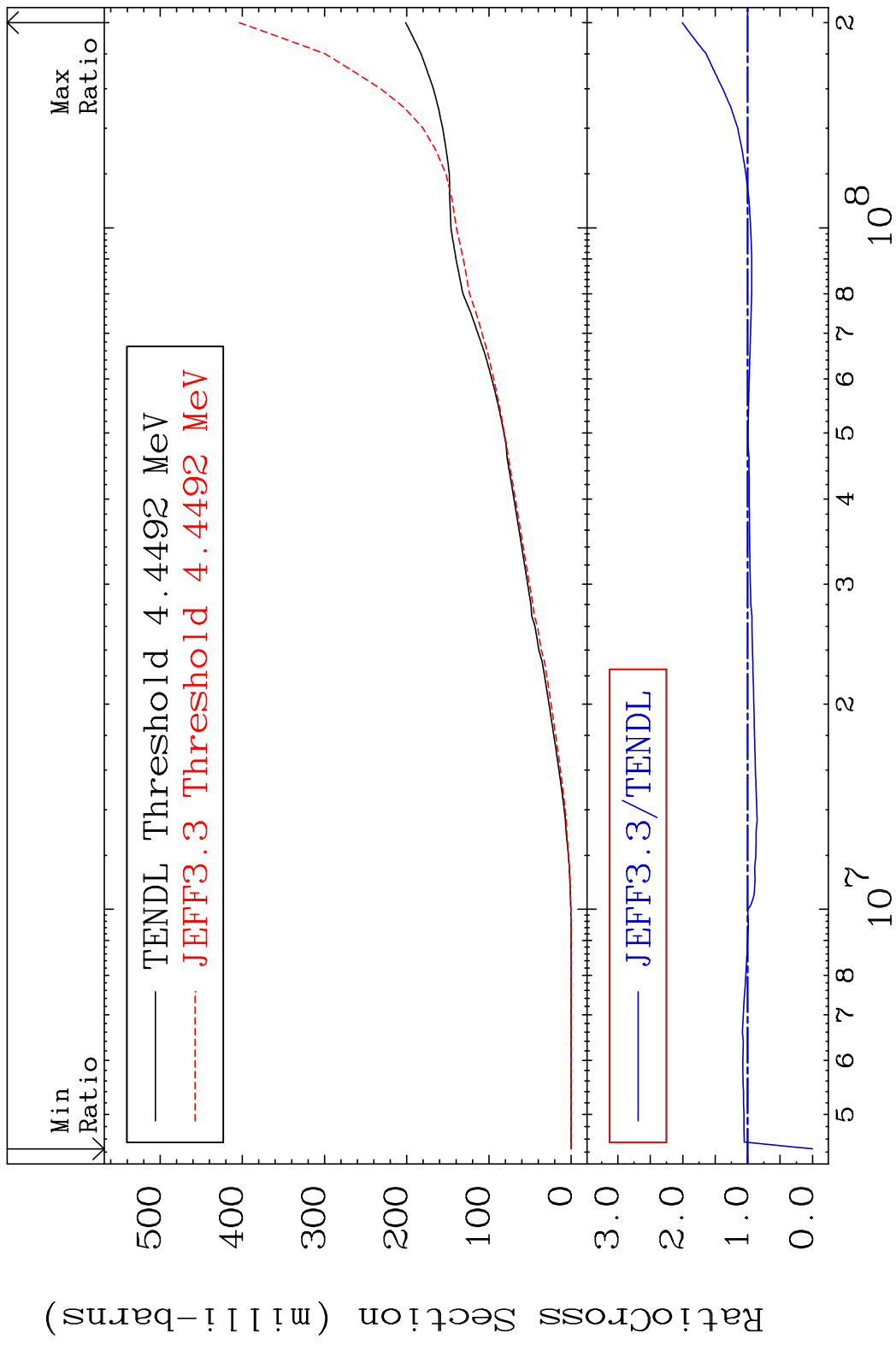
Incident Energy (eV)

31-Ga-69

MAT 3125 Hydrogen Production 31-Ga-69
 Cross Section -100.0 To 27.33 %



MAT 3125 Deuterium Production 31-Ga-69
 Cross Section -100.0 To 100.6 %



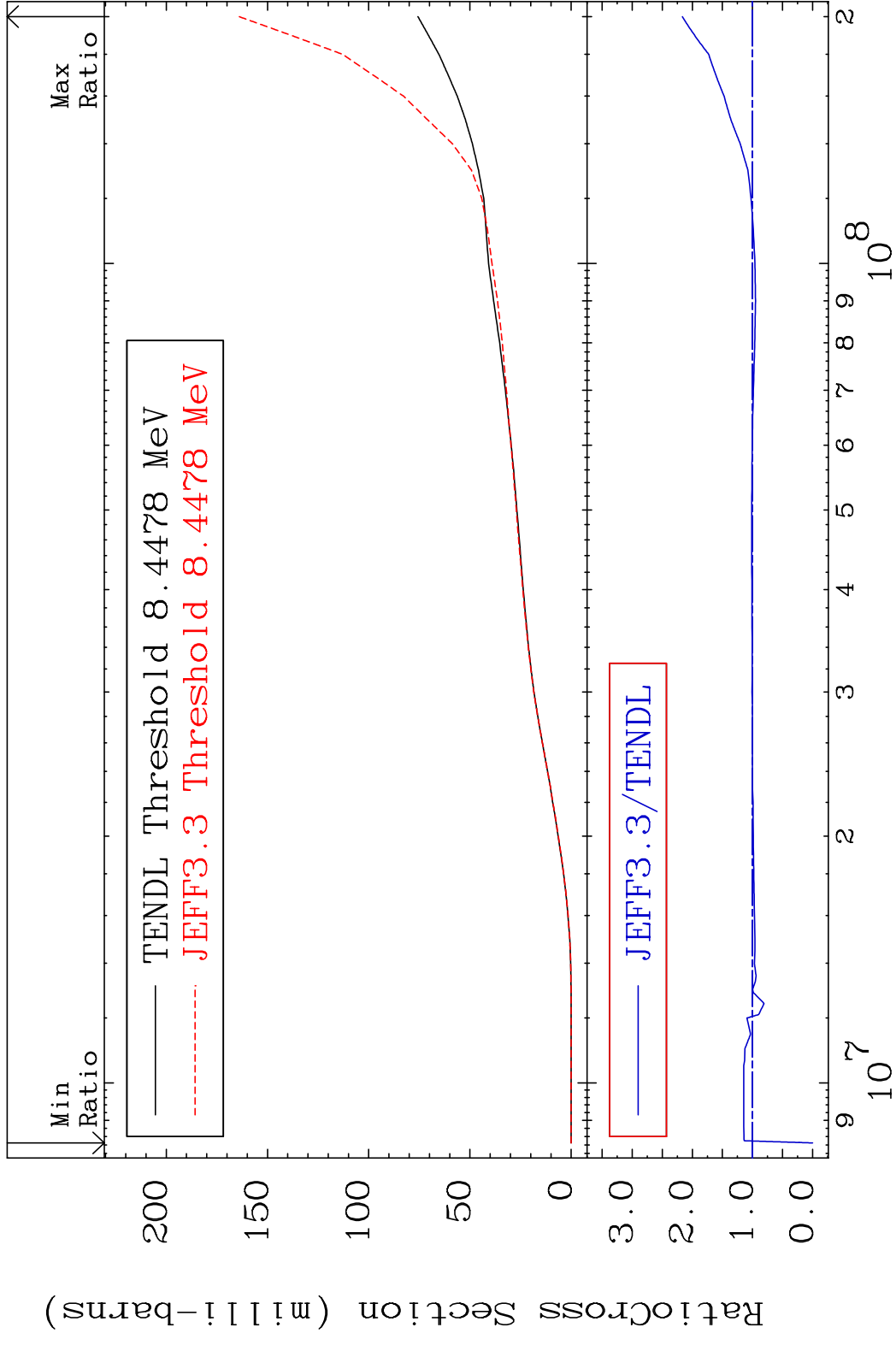
63 Incident Energy (eV) 31-Ga-69

MAT 3125

Tritium Production

31-Ga-69

Cross Section -100.0 To 116.6 %



64

Incident Energy (eV)

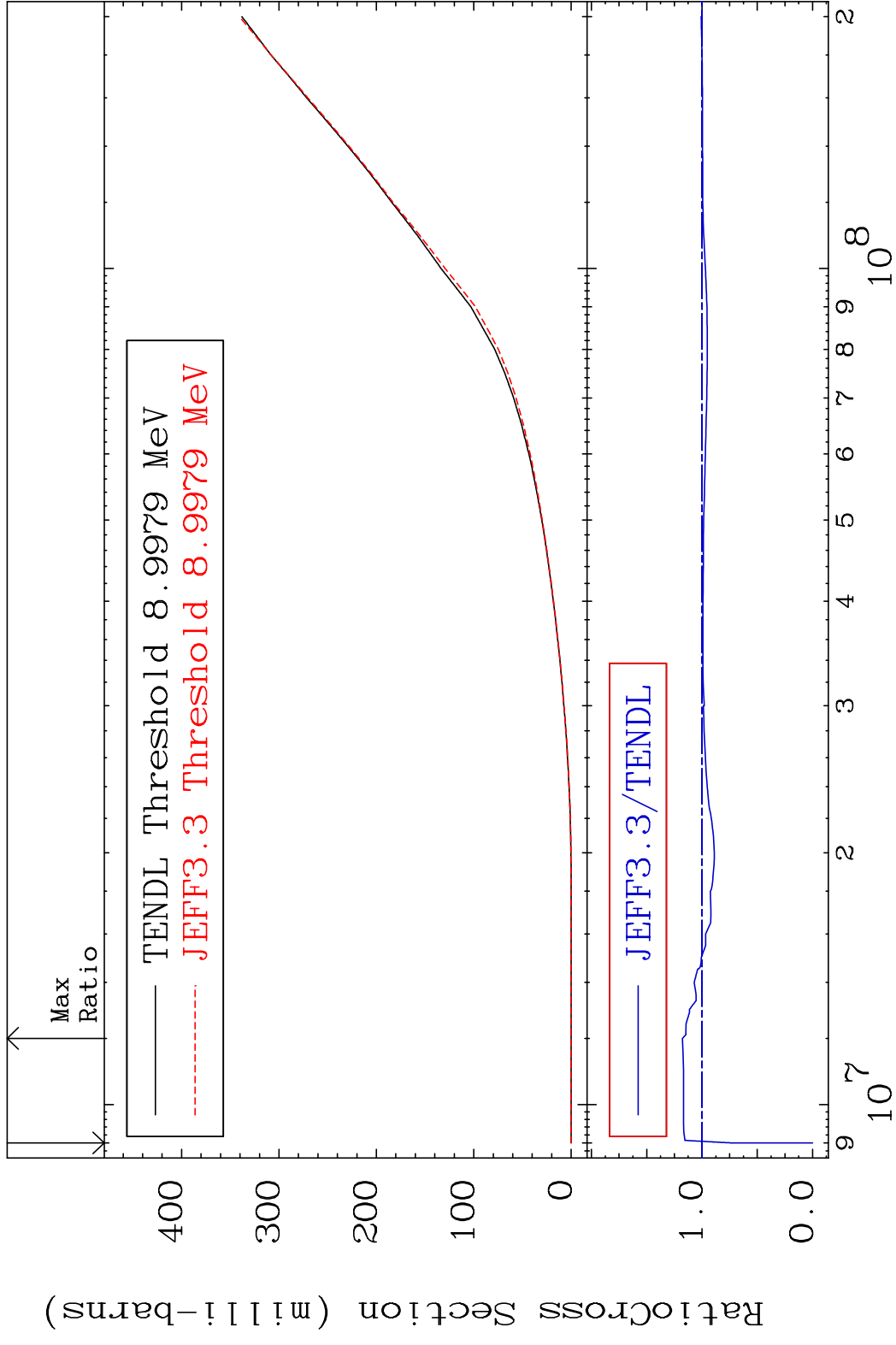
31-Ga-69

MAT 3125

He-3 Production

31-Ga-69

Cross Section -100.0 To 17.78 %



65

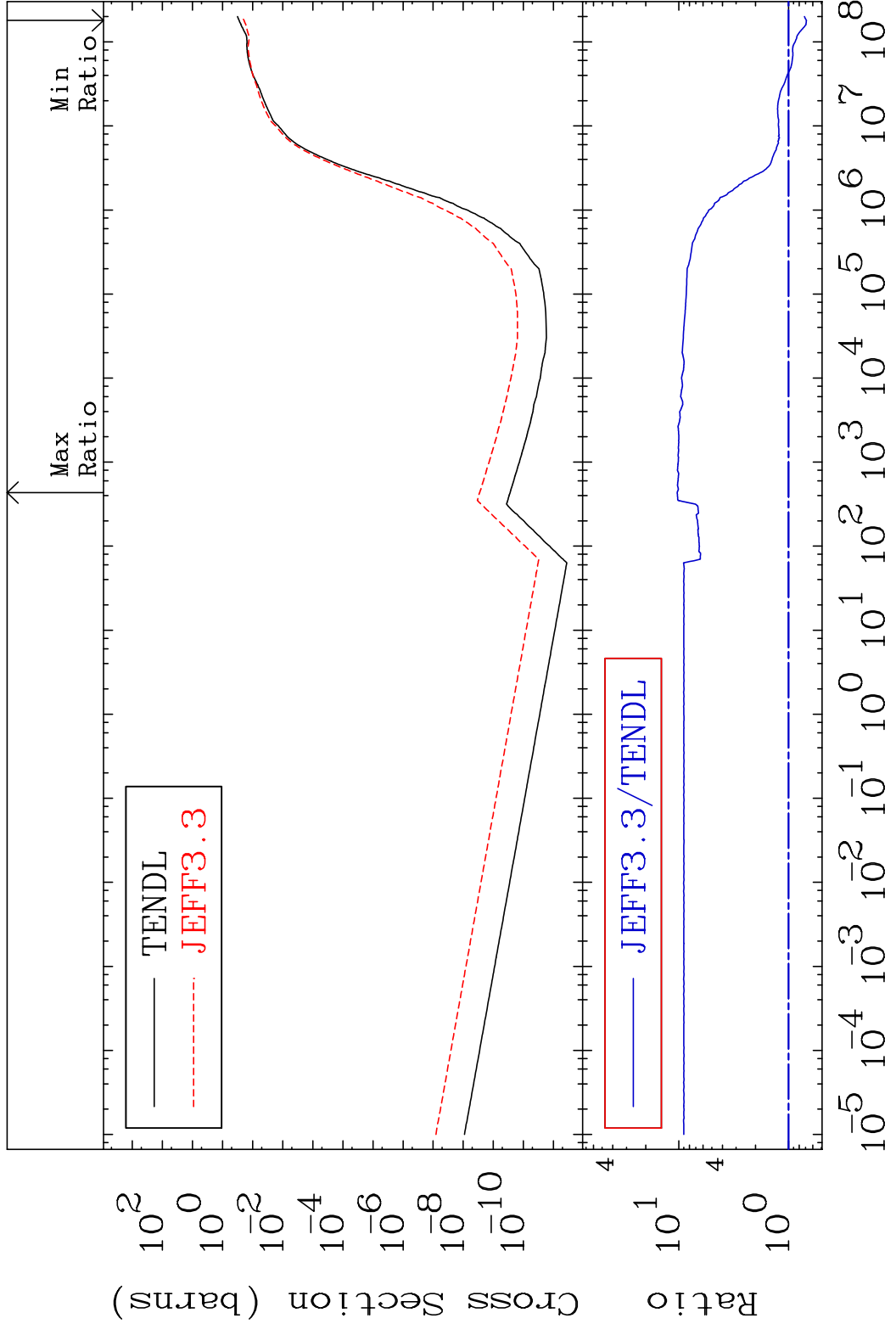
Incident Energy (eV)

31-Ga-69

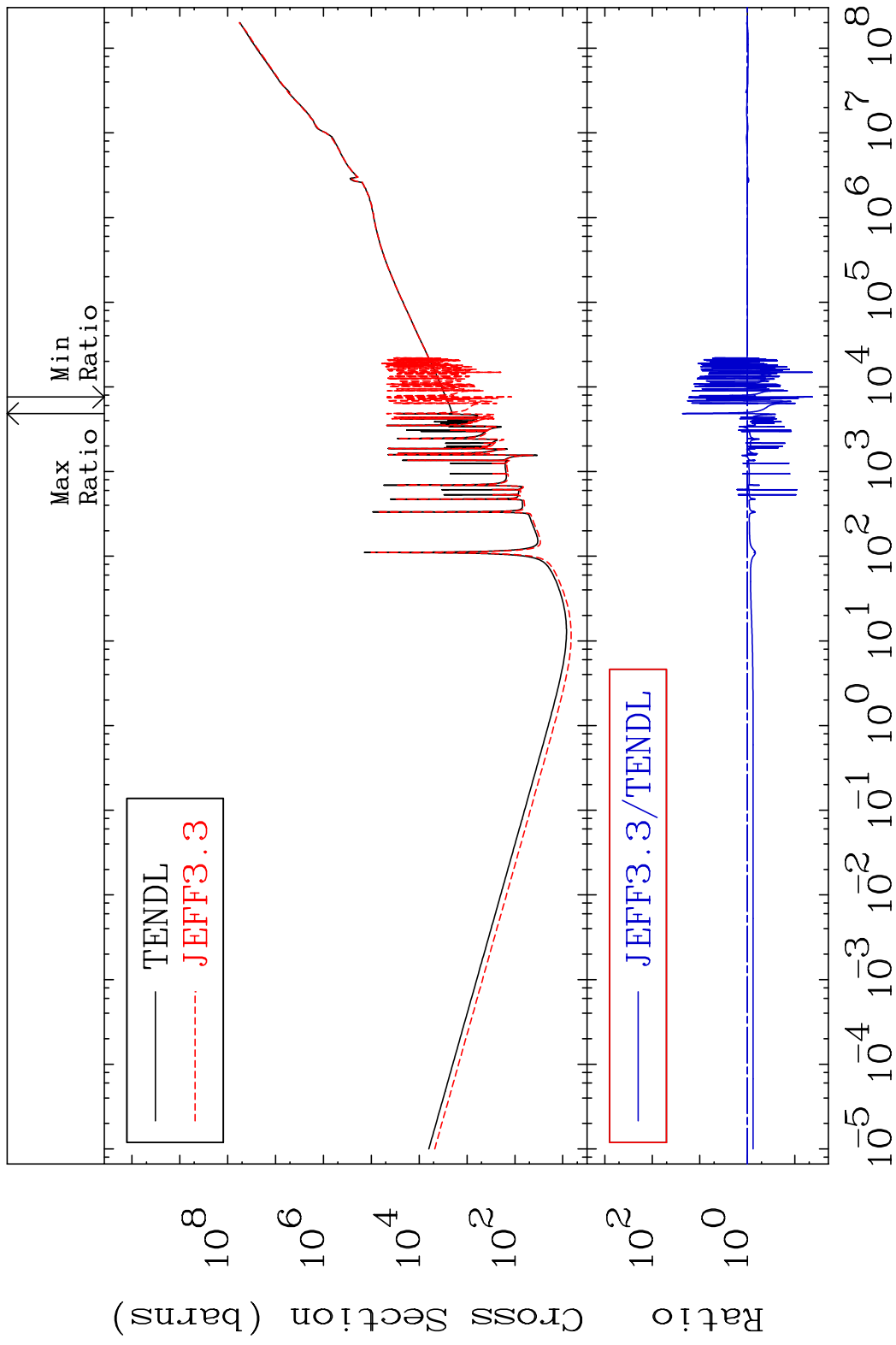
MAT 3125

He-4 Production
Cross Section

31-Ga-69
-31.37 To 933.6 %



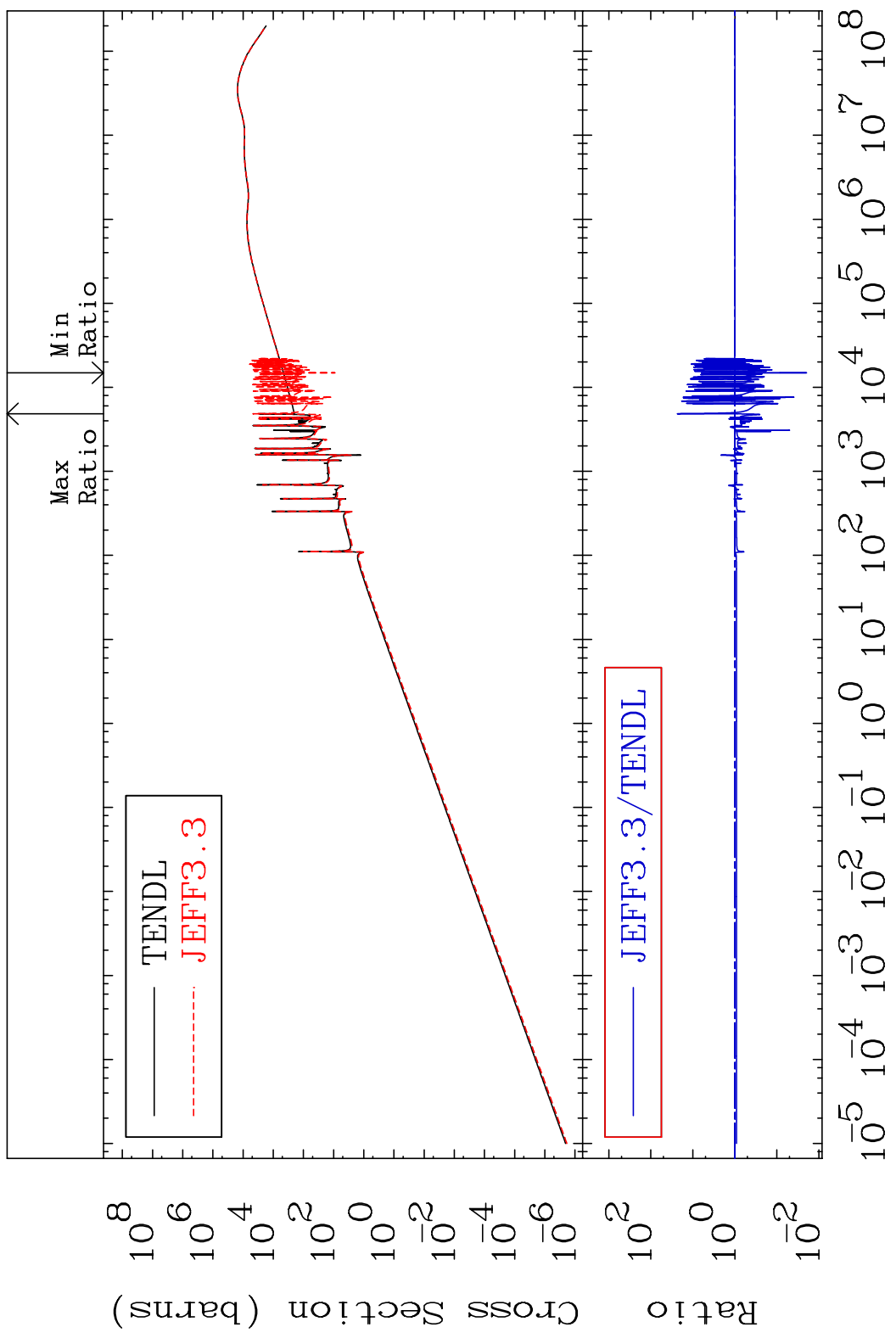
MAT 3125 Kerma total (eV-barns) 31-Ga-69
 Cross Section -95.76 To 2230. %



67 Incident Energy (eV) 31-Ga-69

MAT 3125

Kerma elastic Cross Section -98.02 To 2257. %
31-Ga-69

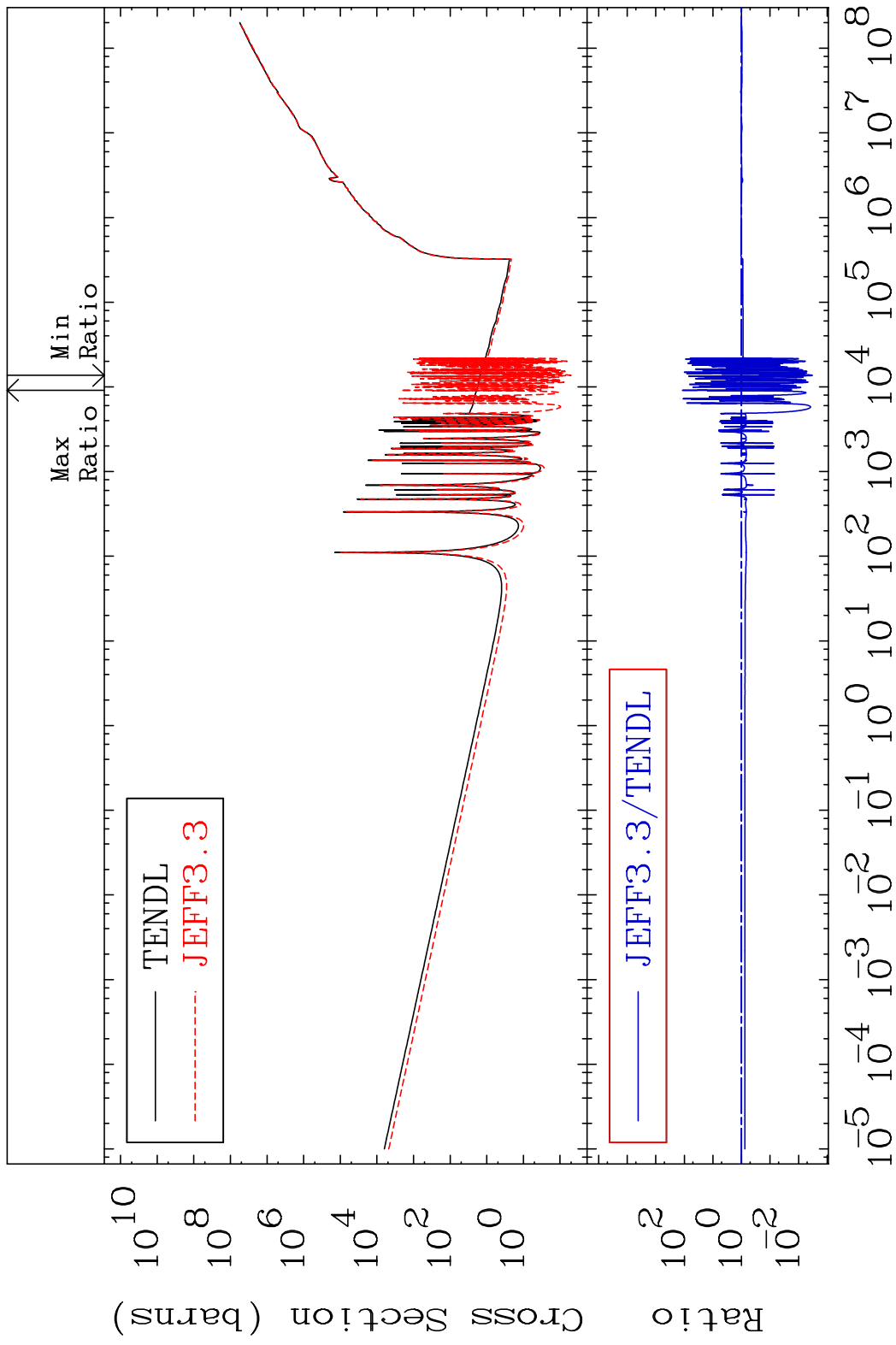


68

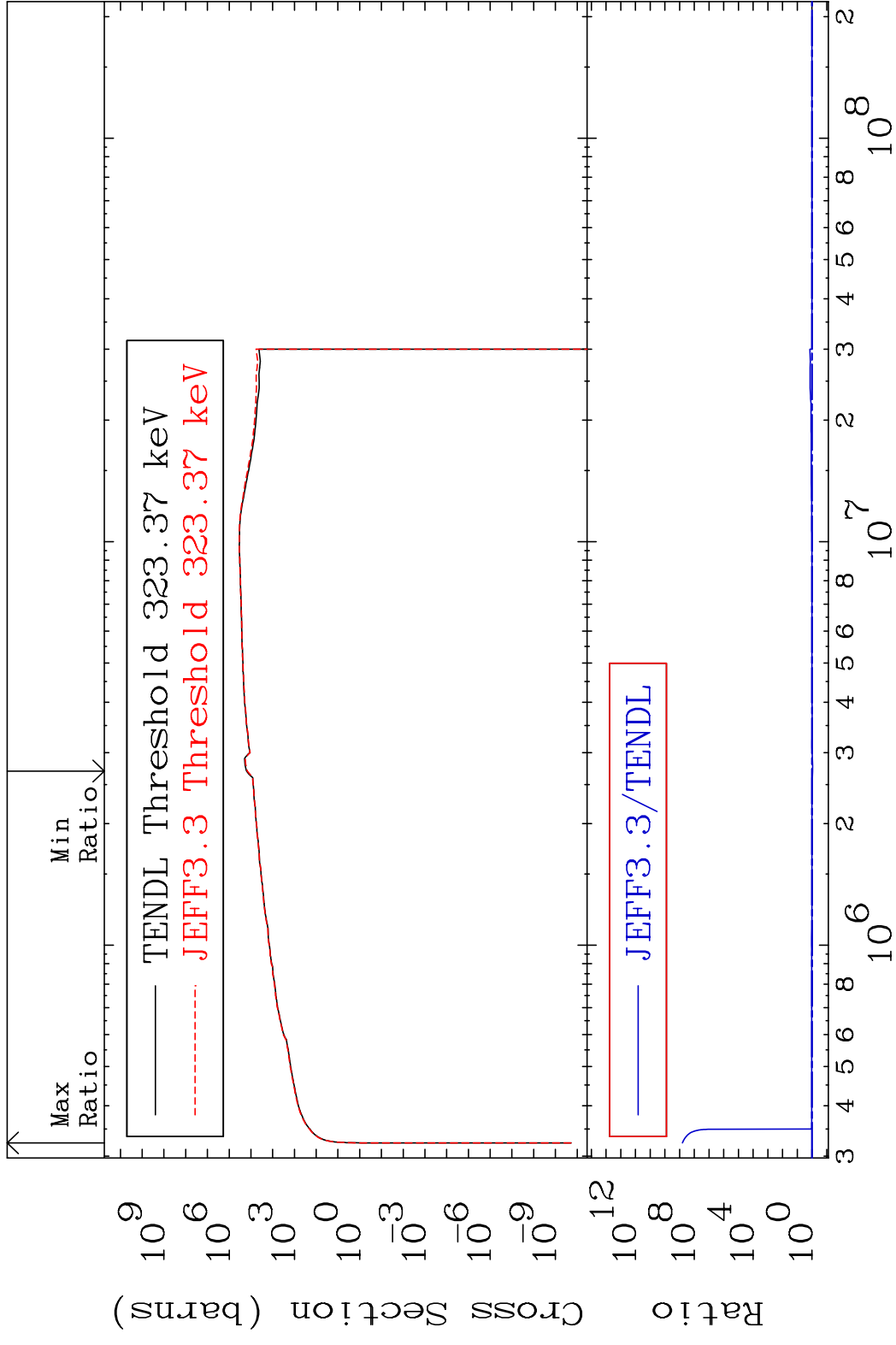
Incident Energy (eV)

31-Ga-69

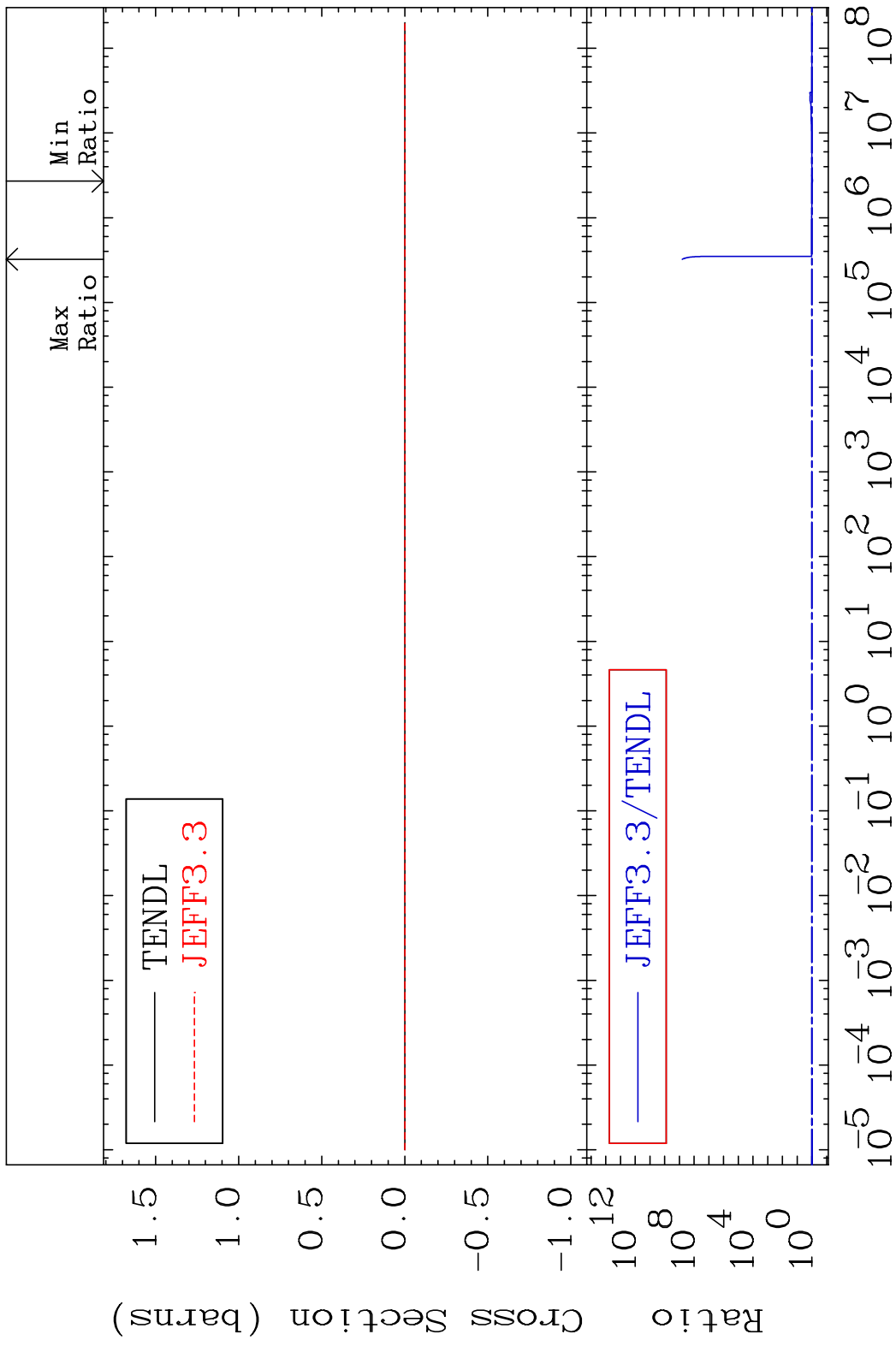
MAT 3125 Kerma non-elastic (all but mt2) 31-Ga-69
 Cross Section -99.68 To 9999. %



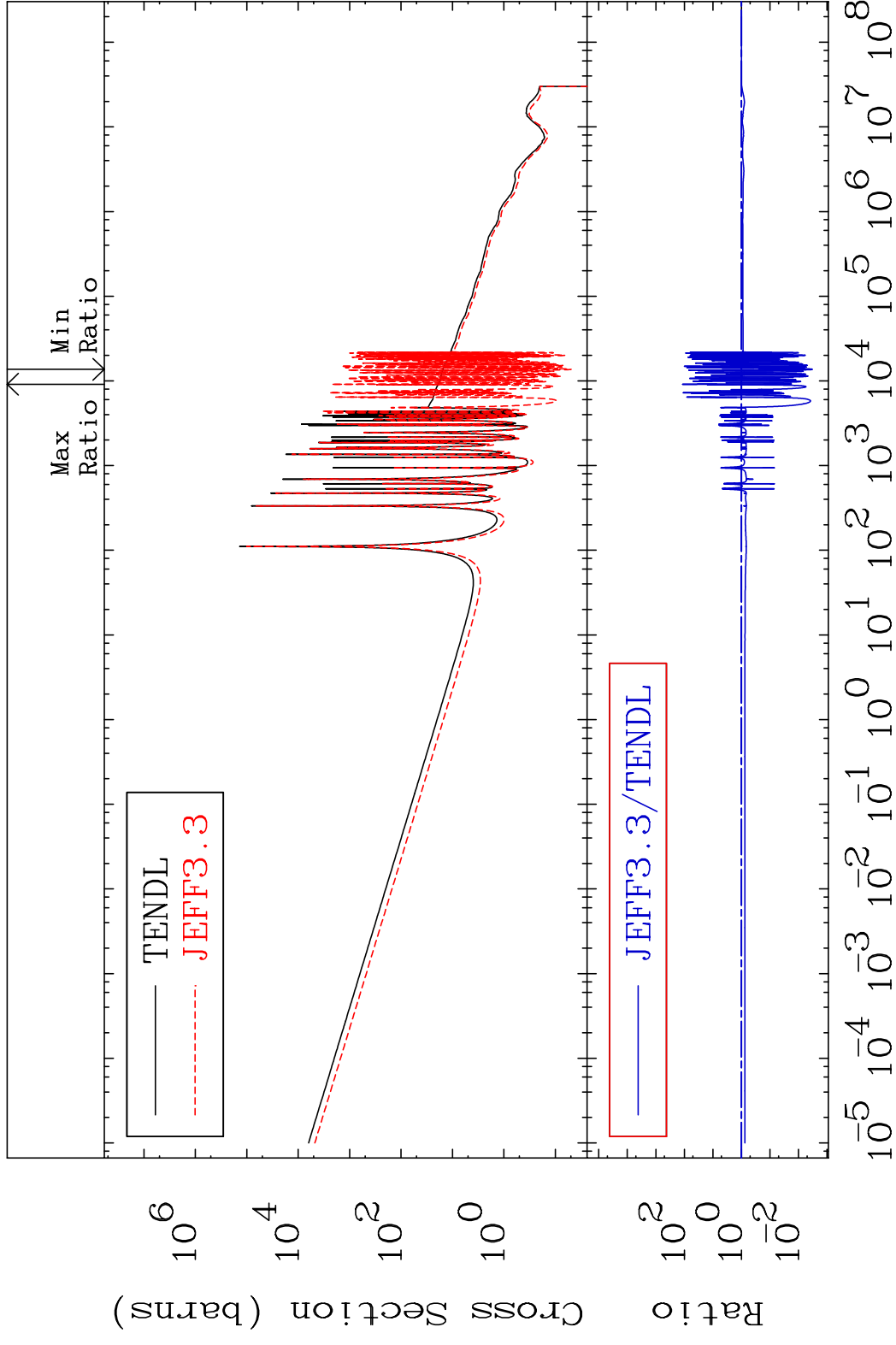
MAT 3125 Kerma inelastic (mt51-91) 31-Ga-69
 Cross Section -8.940 To 9999. %



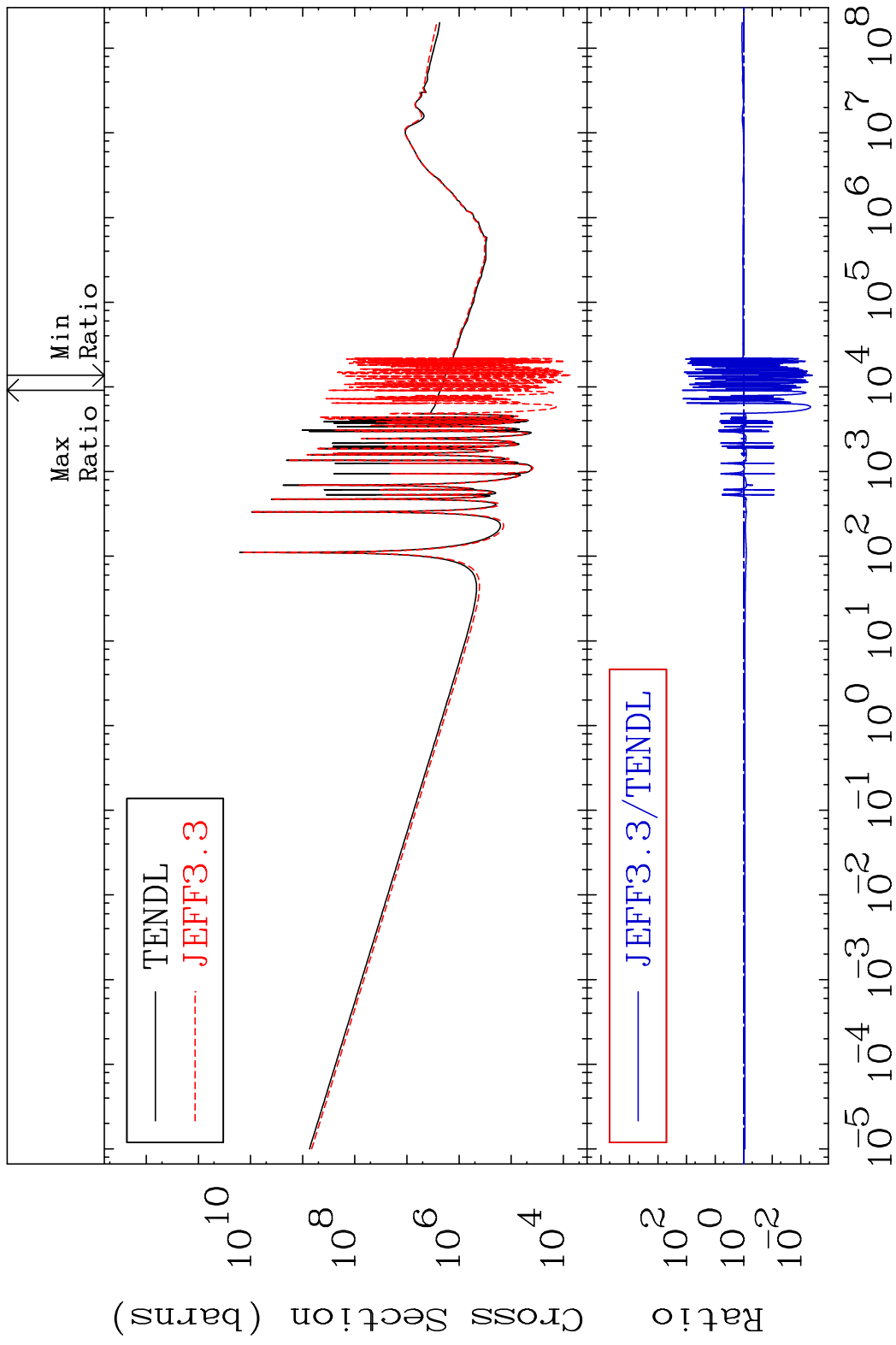
MAT 3125 Kerma fission (mt18 or mt19-20-21-38) 31-Ga-69
 Cross Section -8.940 To 9999. %



MAT 3125 Kerma capture (mt102) 31-Ga-69
 Cross Section -99.68 To 9999. %

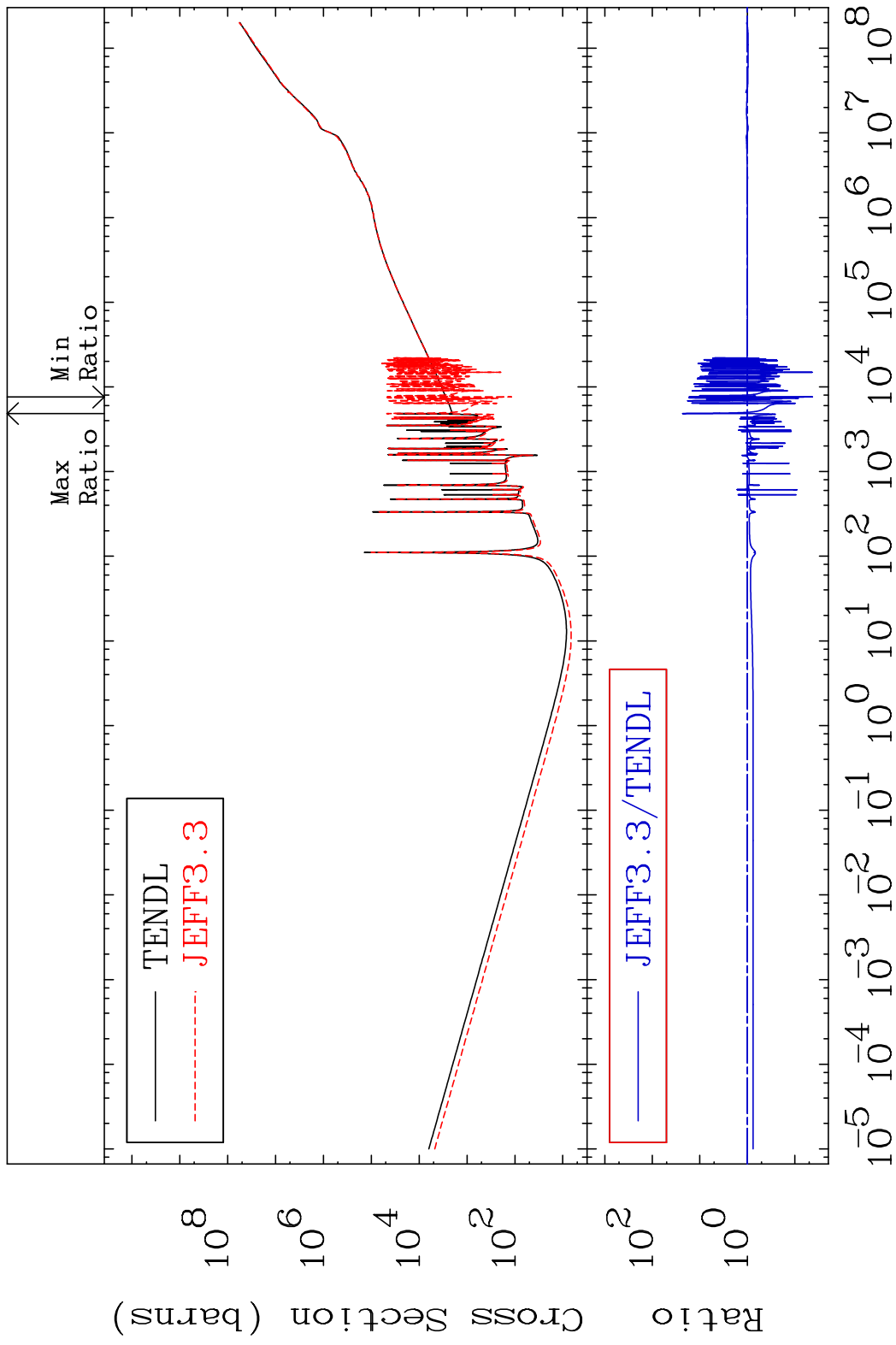


MAT 3125 Total photon (eV-barns) 31-Ga-69
 Cross Section -99.61 To 9999. %



73 Incident Energy (eV) 31-Ga-69

MAT 3125 Total kinematic kerma (high limit) 31-Ga-69
 Cross Section -95.76 To 2230. %

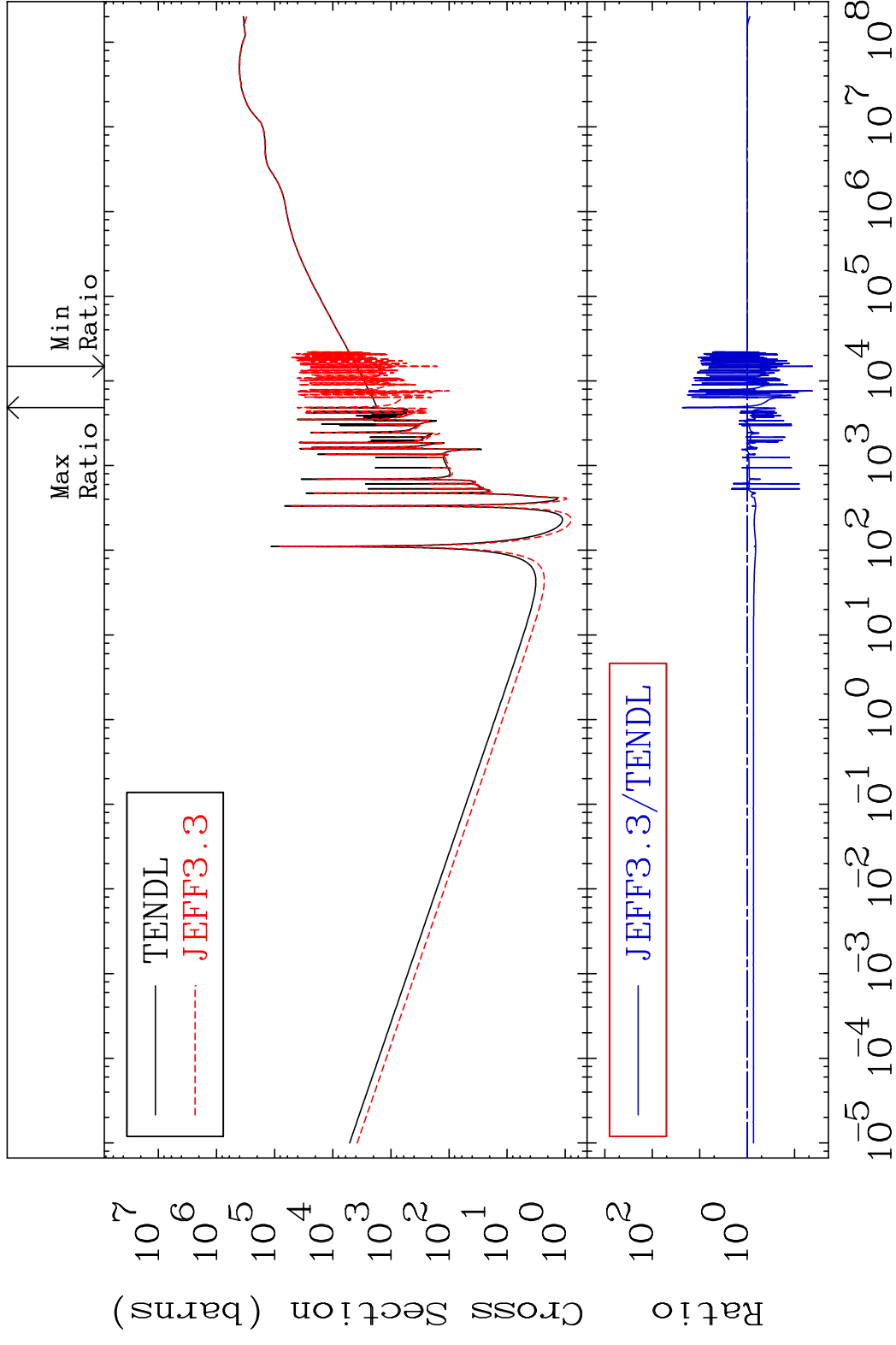


MAT 3125

Dpa total (eV-barns)

31-Ga-69

Cross Section -95.80 To 2231. %



75

Incident Energy (eV)

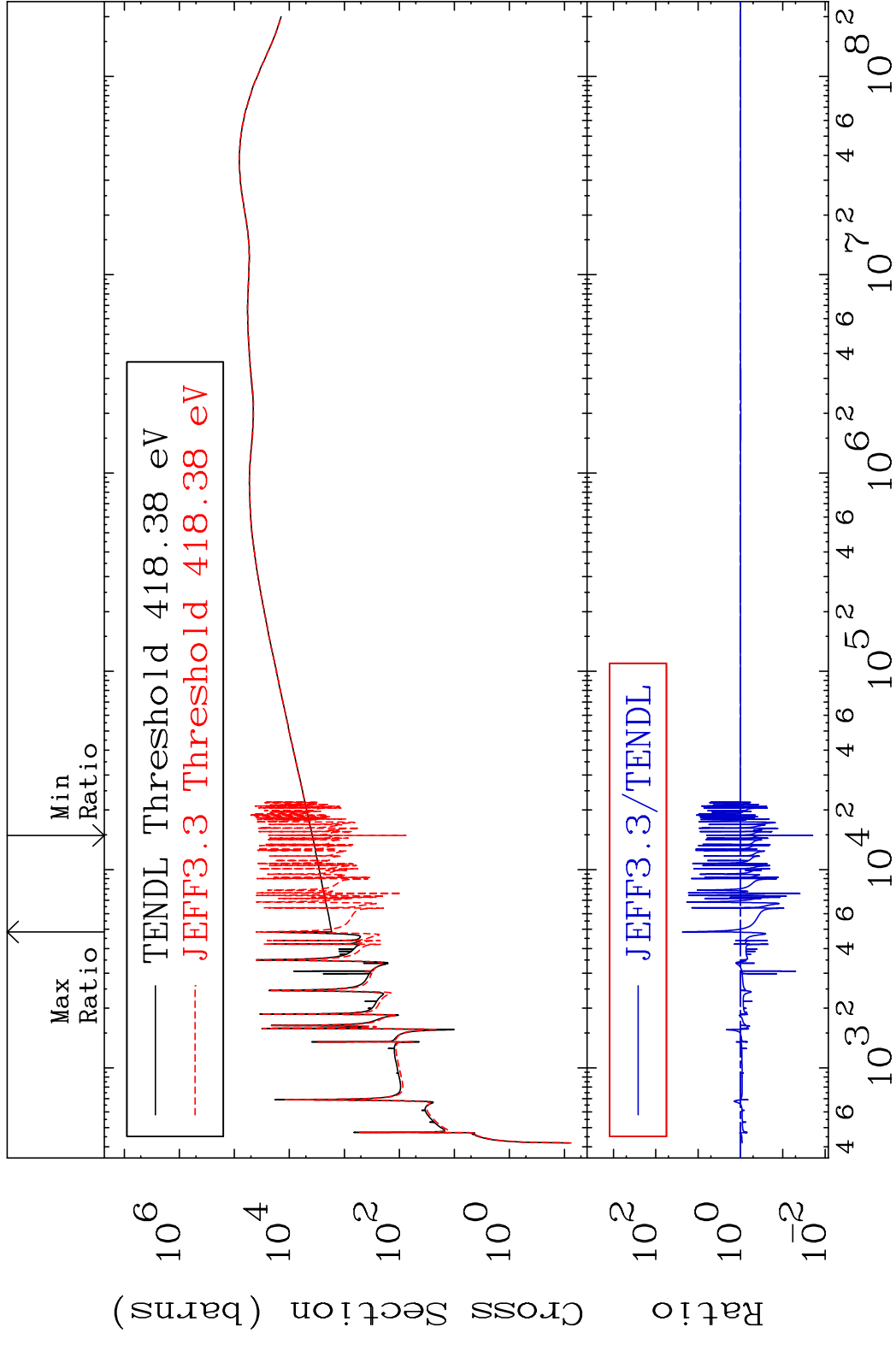
31-Ga-69

MAT 3125

Dpa elastic (mt2)

31-Ga-69

Cross Section -98.02 To 2257. %

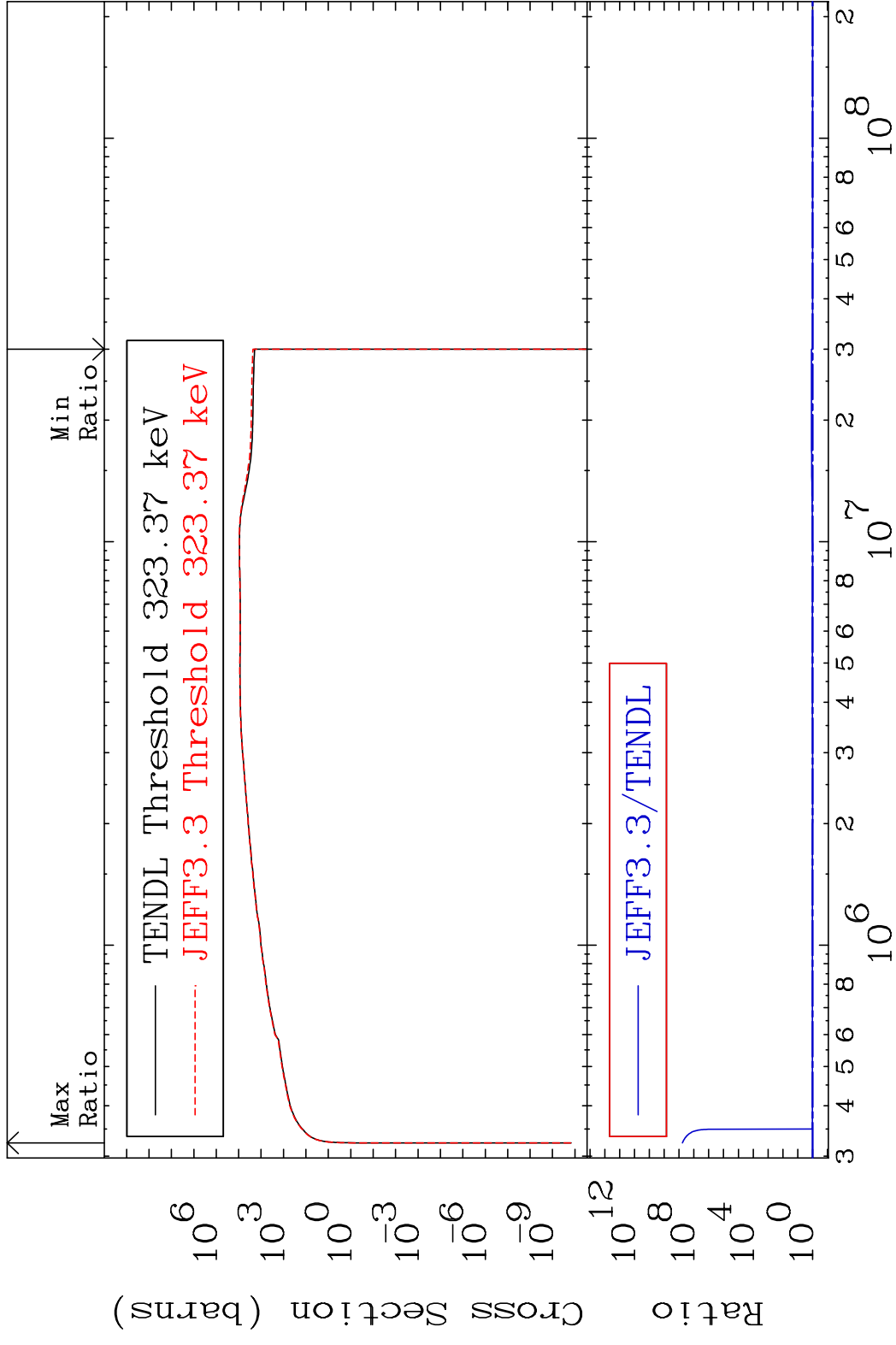


76

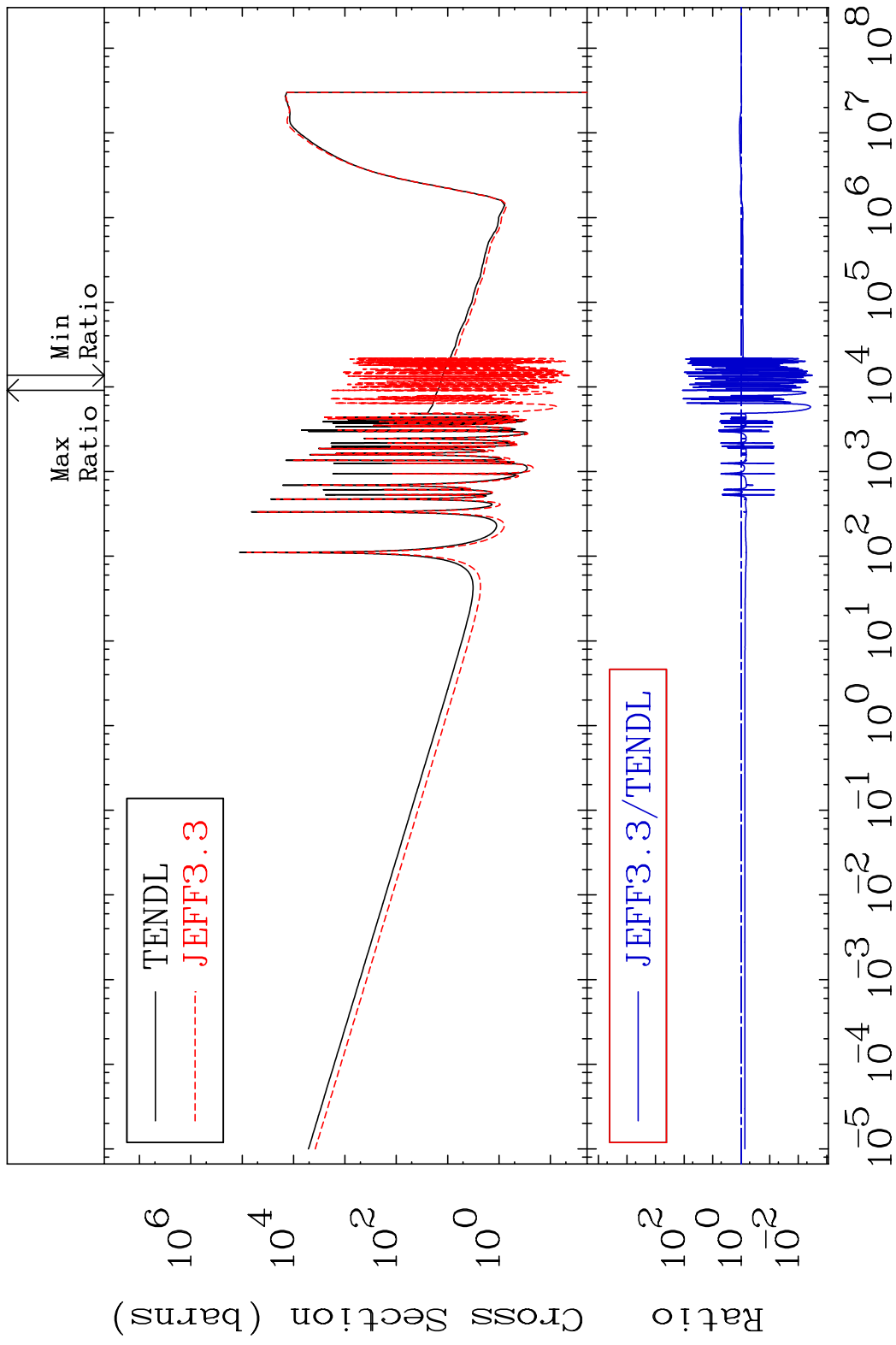
Incident Energy (eV)

31-Ga-69

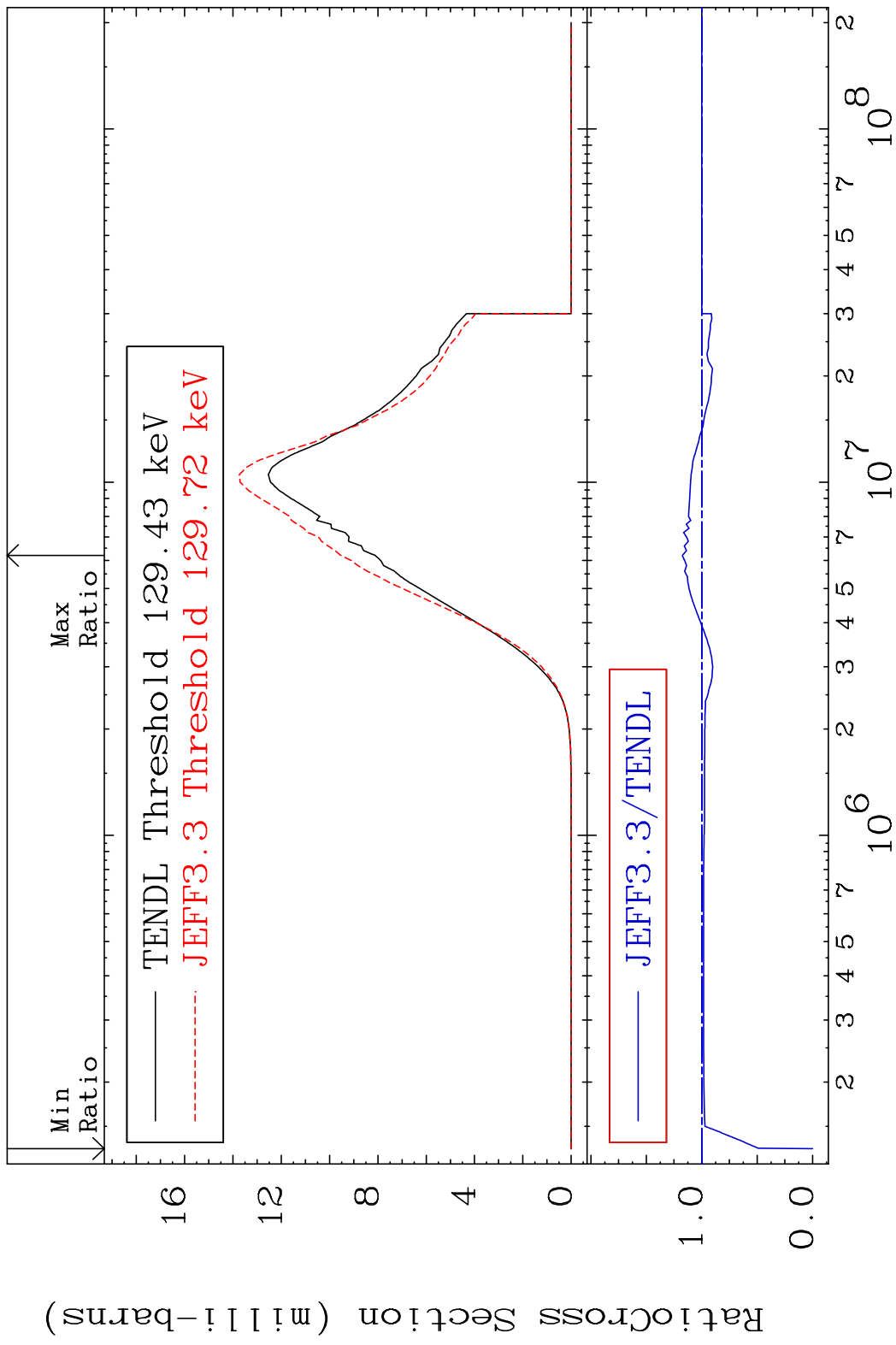
MAT 3125 Dpa inelastic (mt51-91) 31-Ga-69
 Cross Section 0.000 To 9999. %



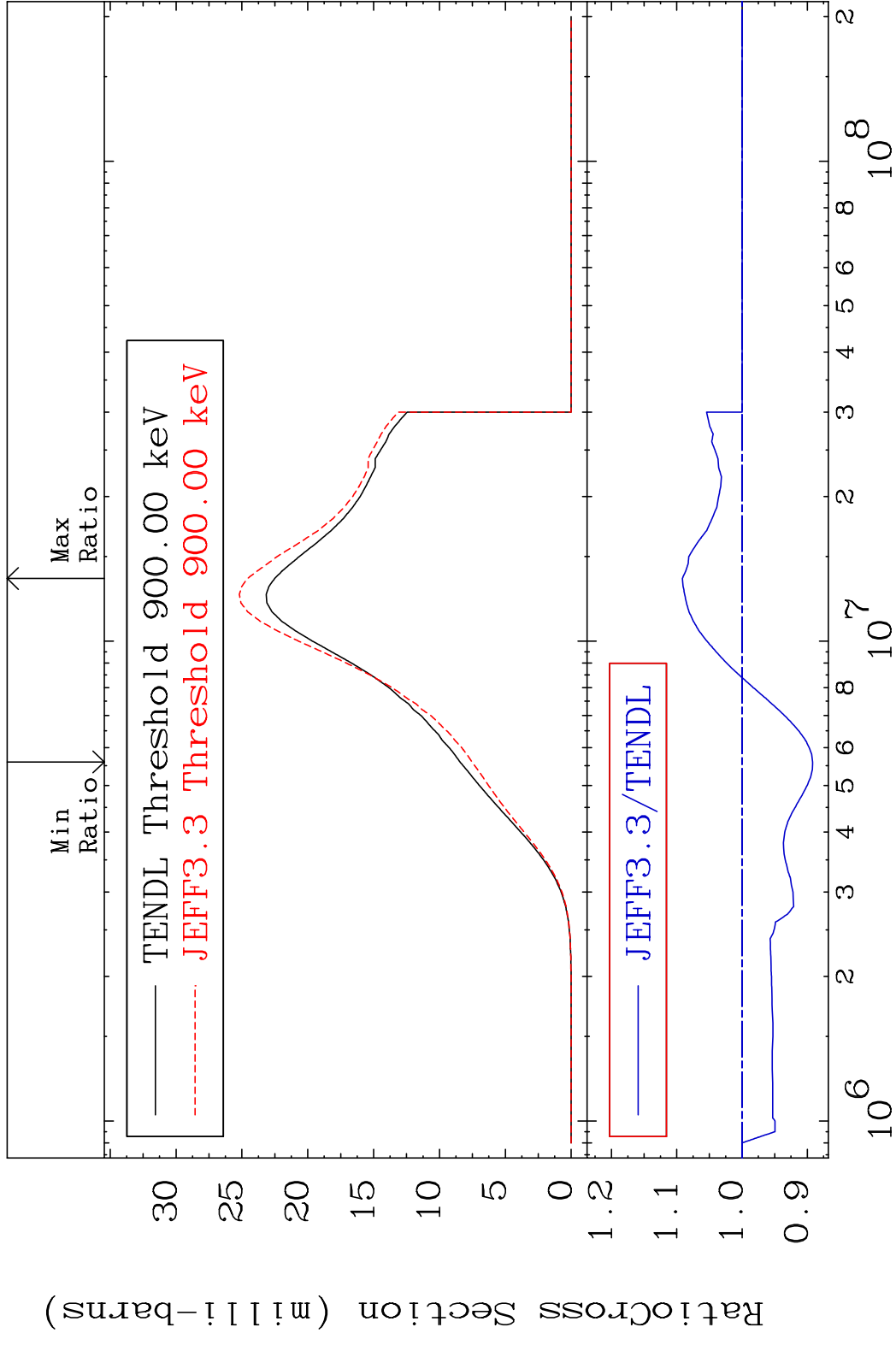
MAT 3125 Dpa disappearance (mt102 -120) 31-Ga-69
 Cross Section -99.68 To 9999. %



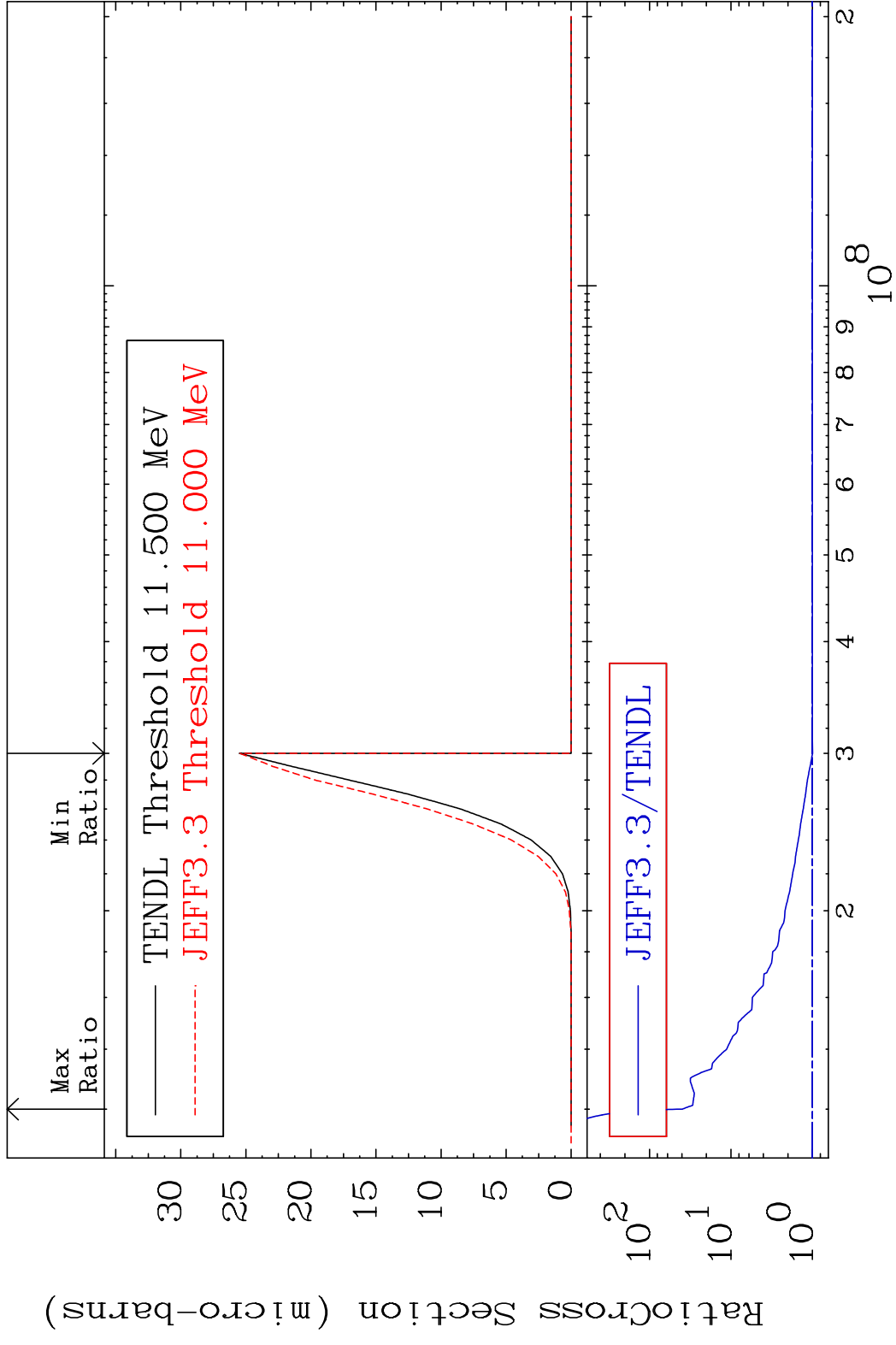
MAT 3125 (n, p) : 30-Zn-69g 31-Ga-69
 Radionuclide Production Cross Section 1800 d 17.50 %

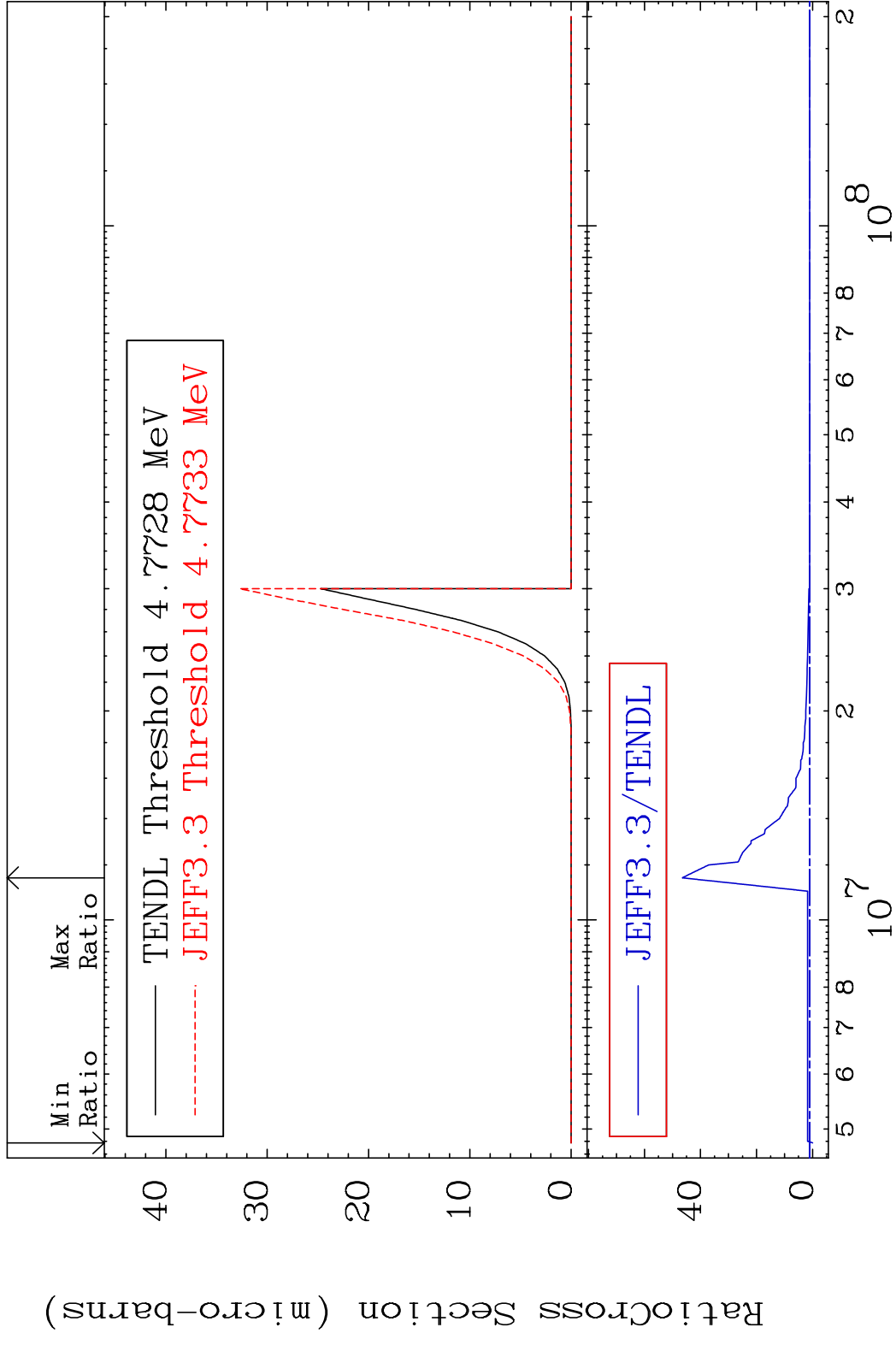


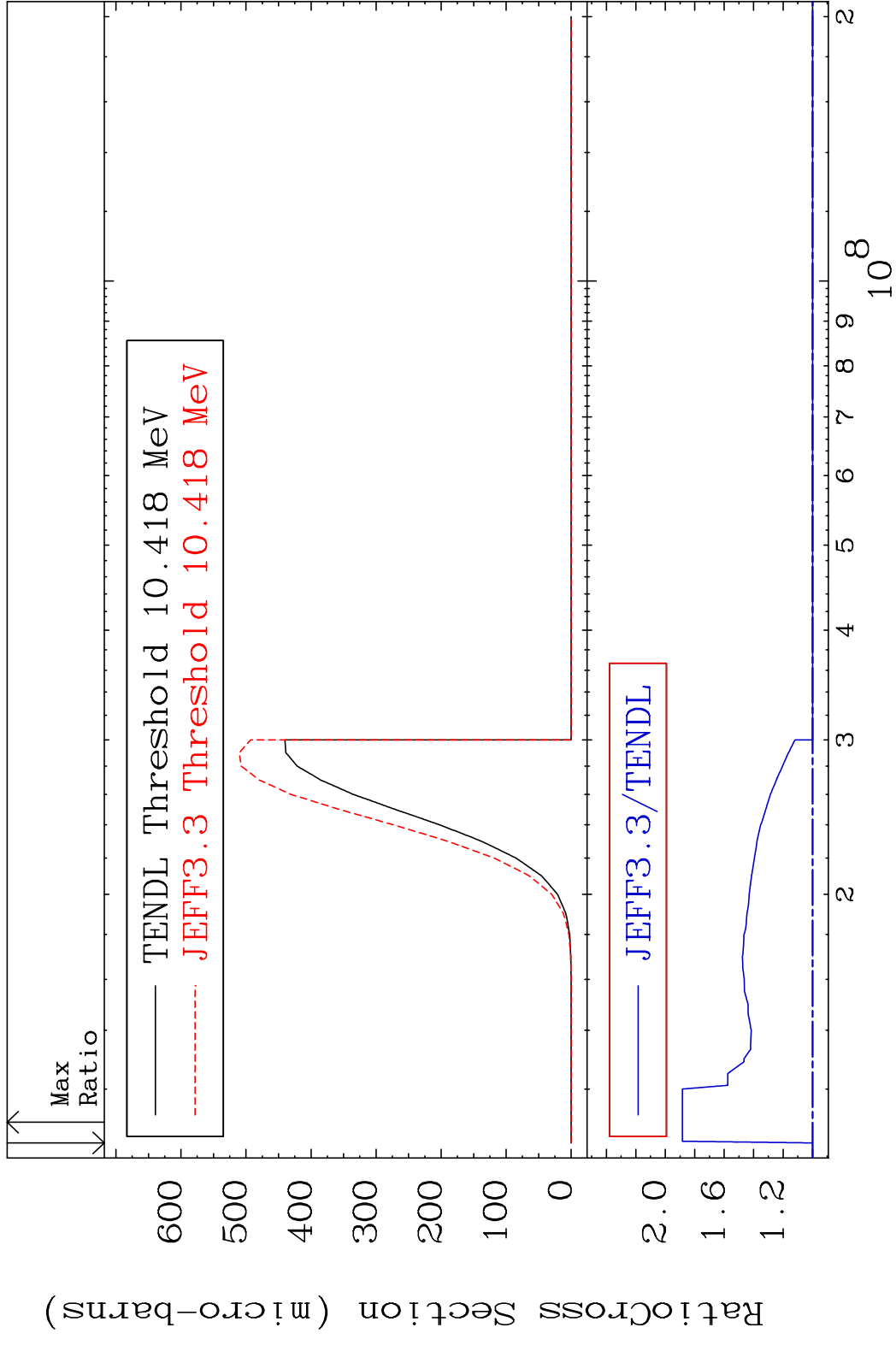
MAT 3125 (n,p):30-Zn-69m1 31-Ga-69
 Radionuclide Production Cross Section Ratio 9.141 %



80 Incident Energy (eV) 31-Ga-69







MAT 3125 (n,2p):29-Cu-68m3 31-Ga-69
 Radionuclide Production Cross Section 115.0 %

