

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

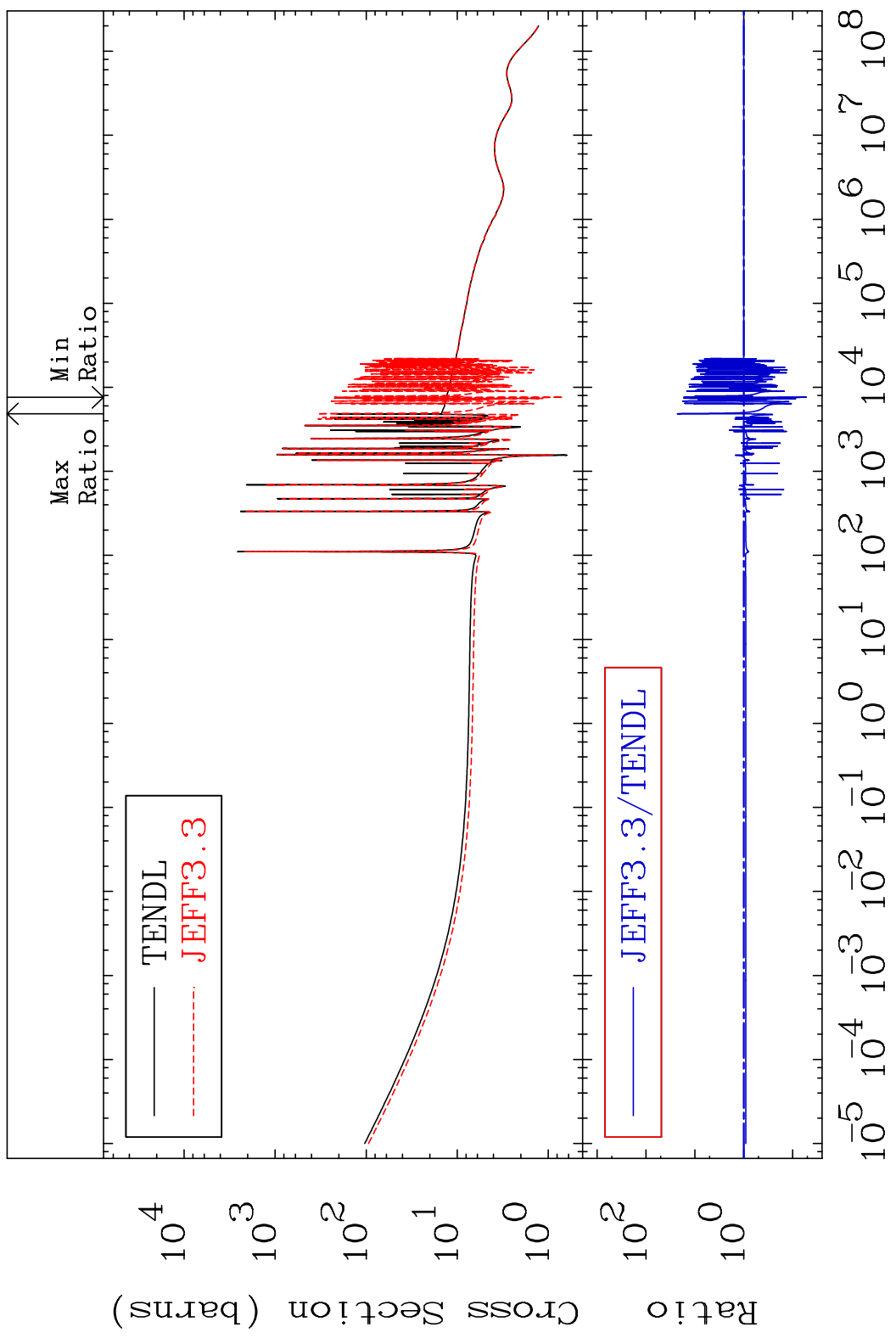
Press Mouse Button to Start

MAT 3125

Total

31-Ga-69

Cross Section -94.79 To 2203. %



1

Incident Energy (eV)

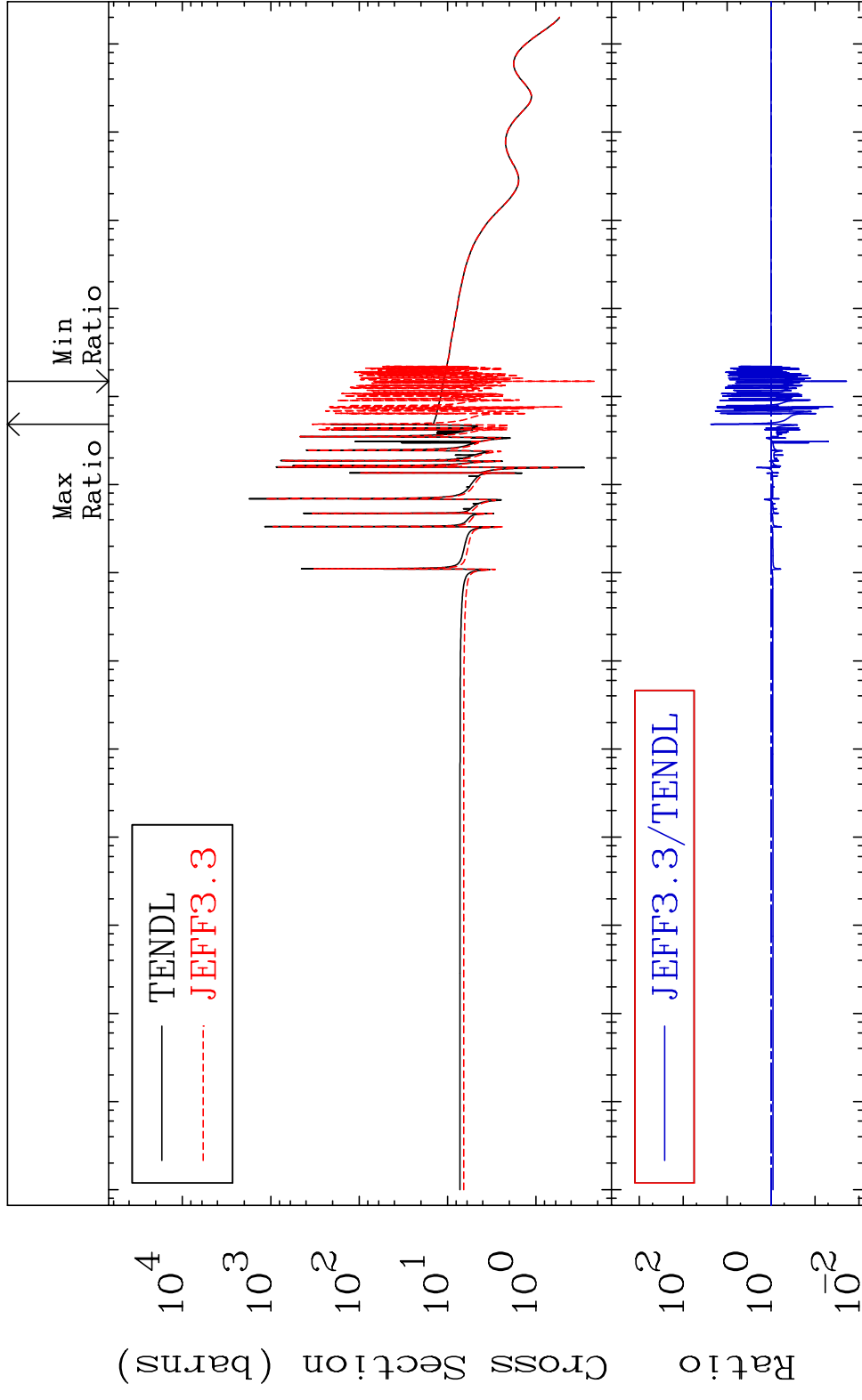
31-Ga-69

MAT 3125

Elastic

31-Ga-69

Cross Section -98.07 To 2260. %

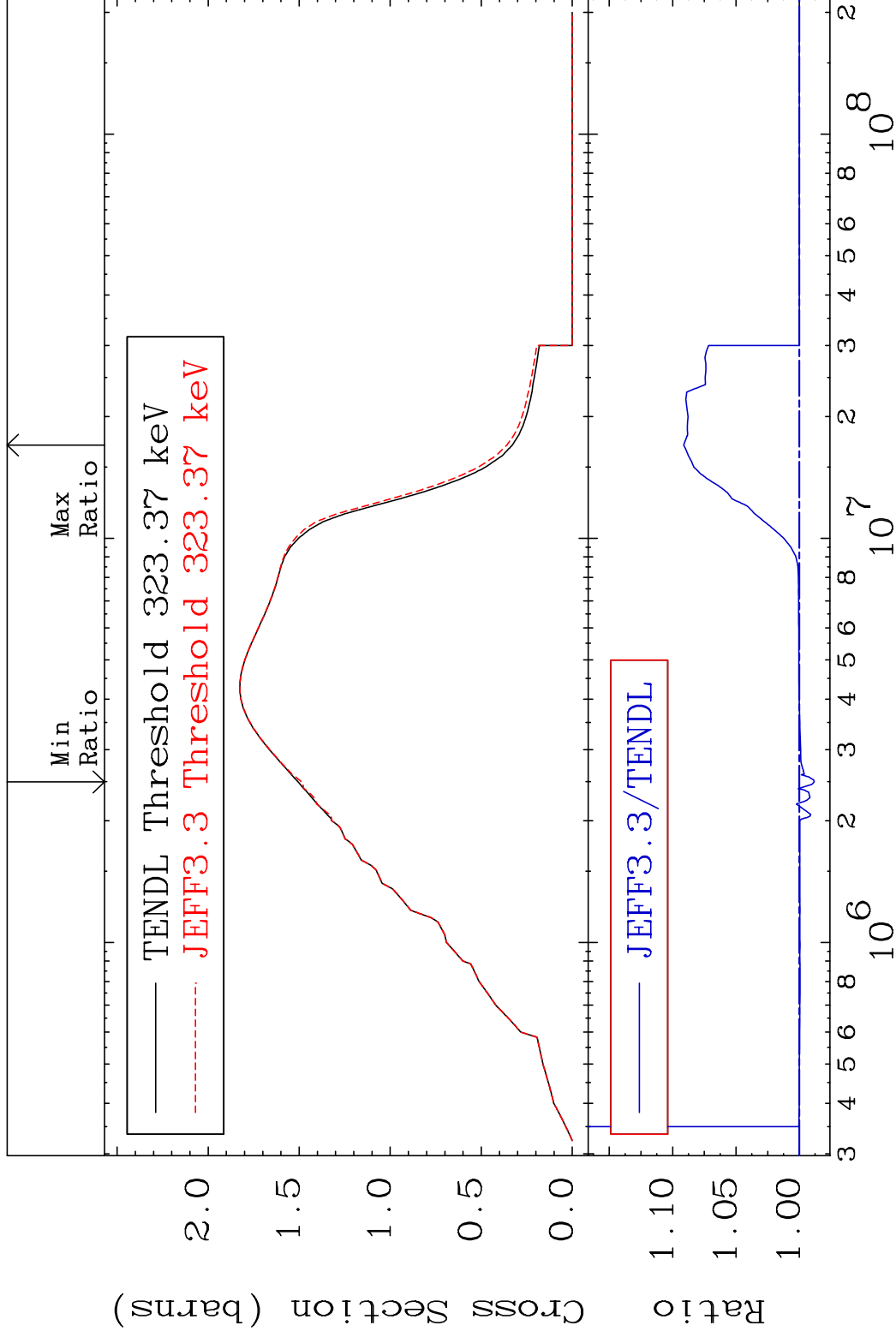


MAT 3125

31-Ga-69

Inelastic

Cross Section -1.166 To 9.130 %



3

Incident Energy (eV)

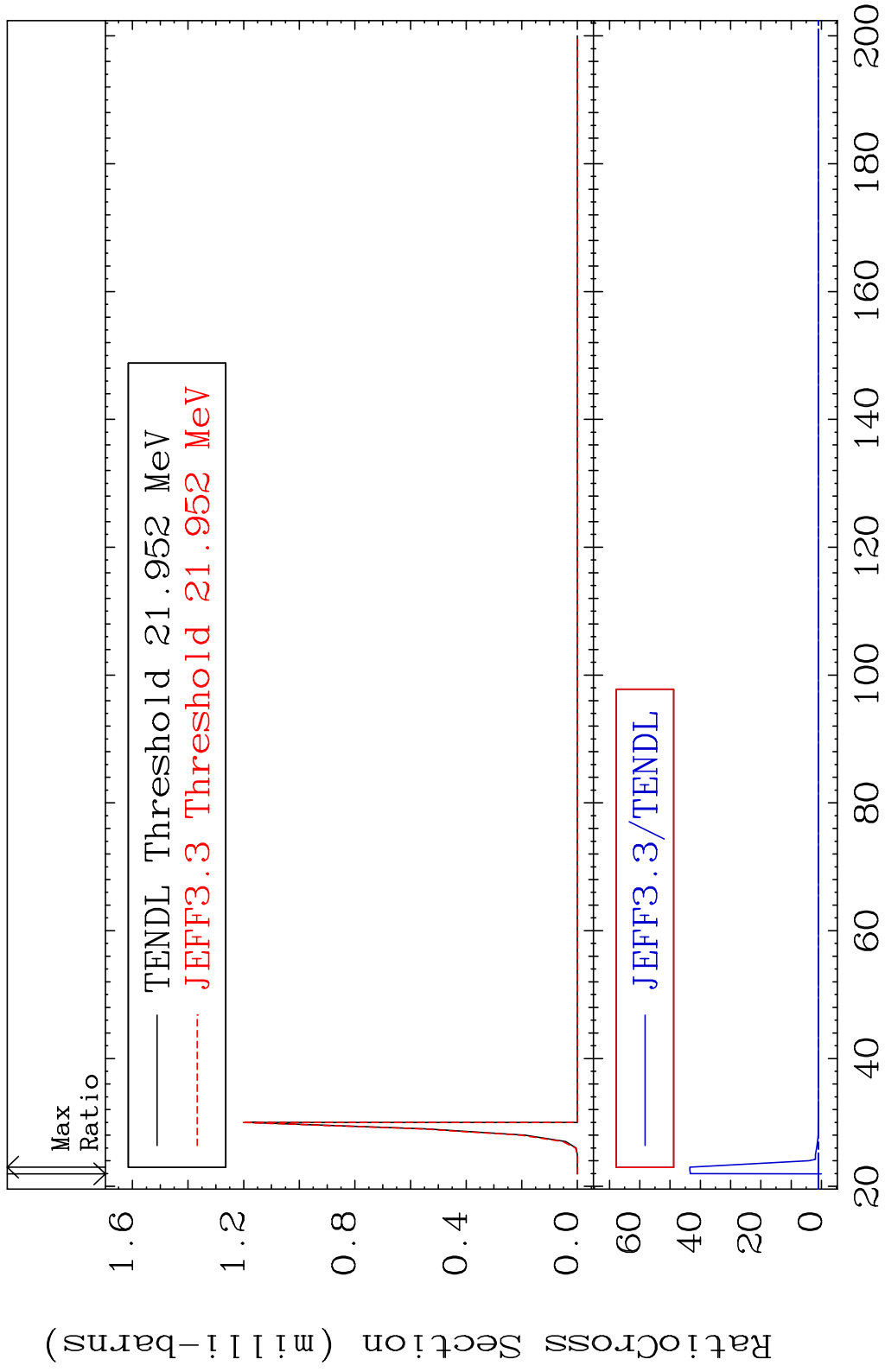
31-Ga-69

MAT 3125

(n,2n) d

31-Ga-69

Cross Section -100.0 To 4249. %

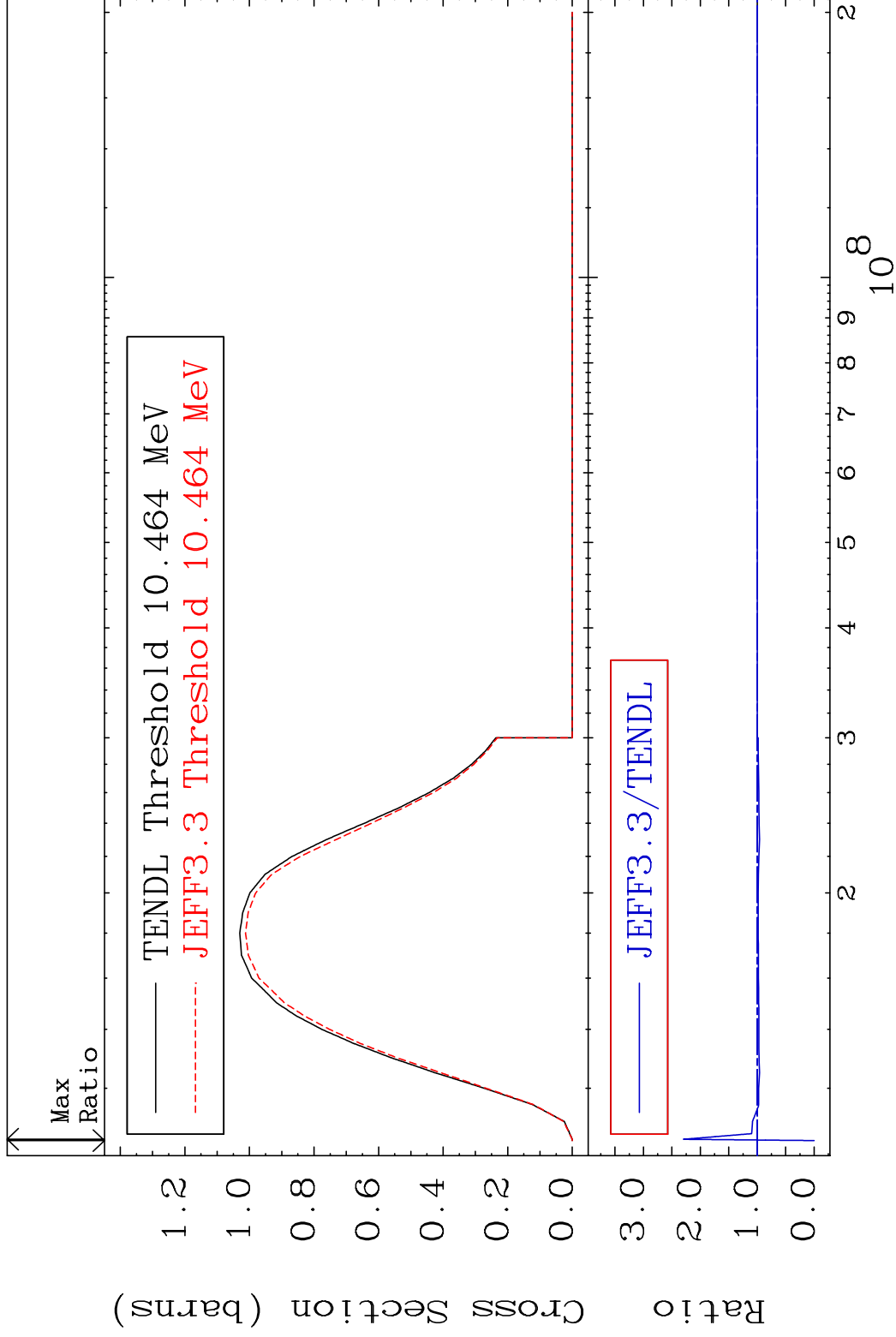


MAT 3125

(n,2n)

31-Ga-69

Cross Section -100.0 To 129.3 %

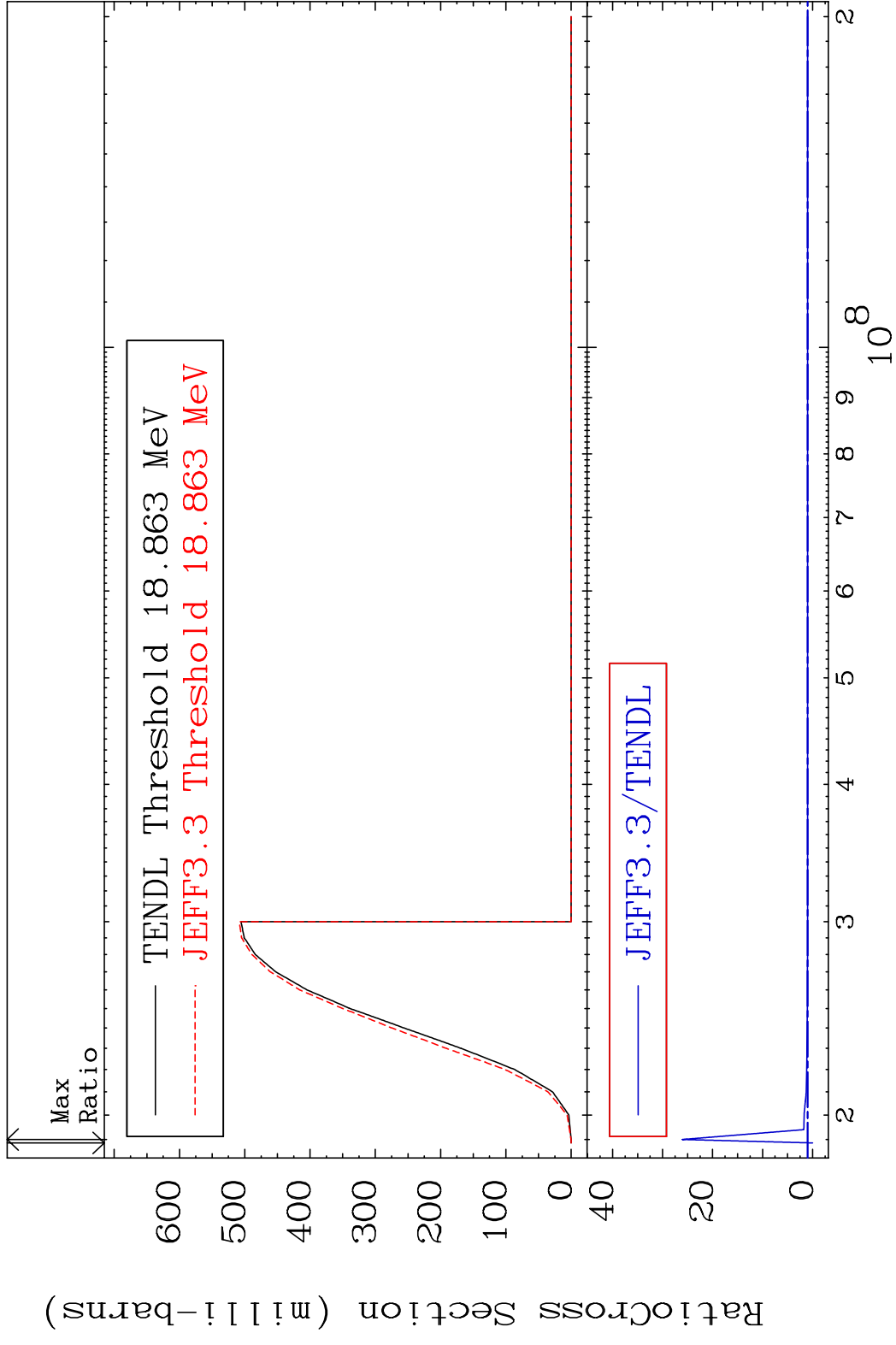


5

Incident Energy (eV)

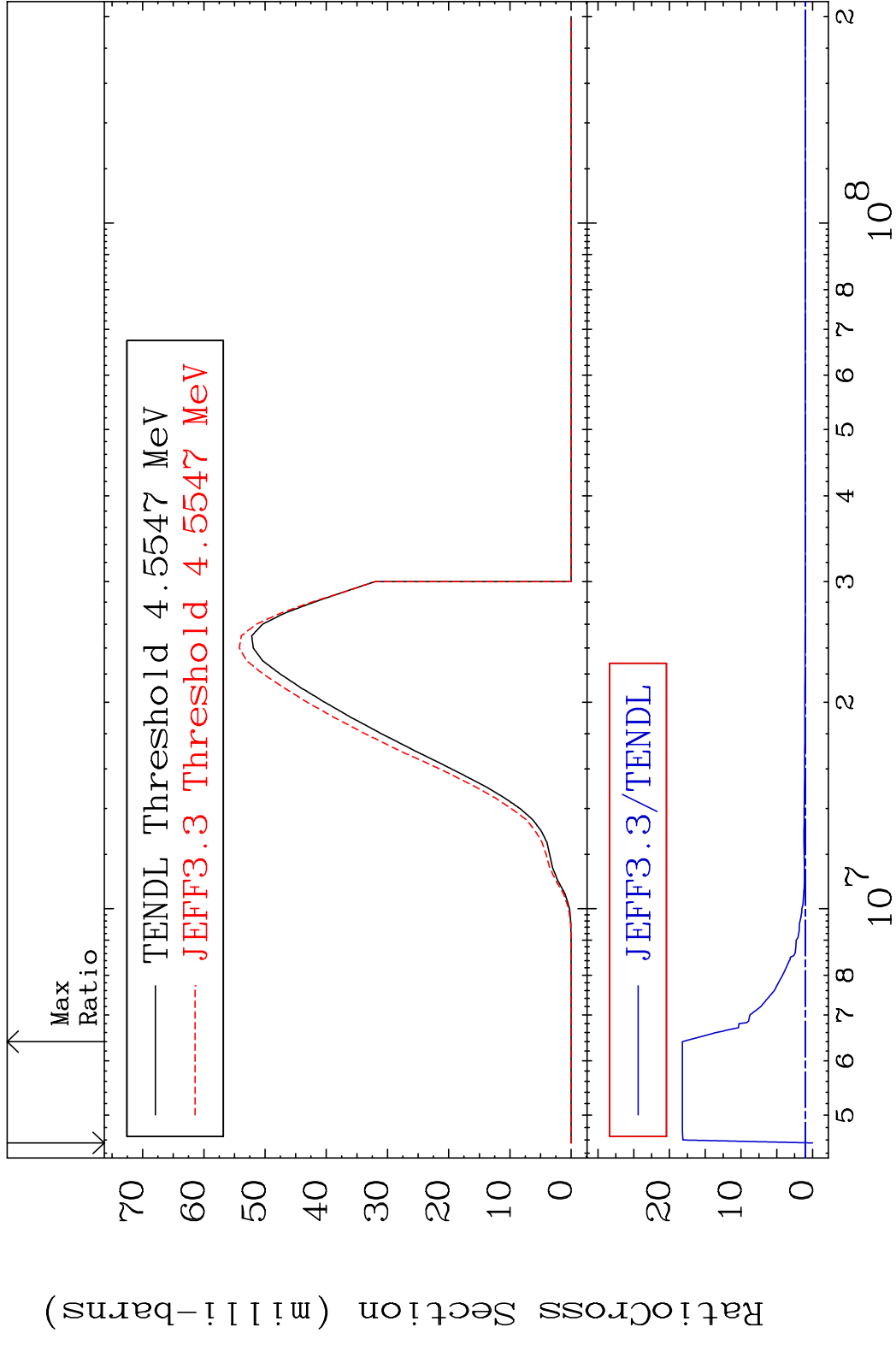
31-Ga-69

MAT 3125 (n,3n) 31-Ga-69  
 Cross Section -100.0 To 2504. %



6 Incident Energy (eV) 31-Ga-69

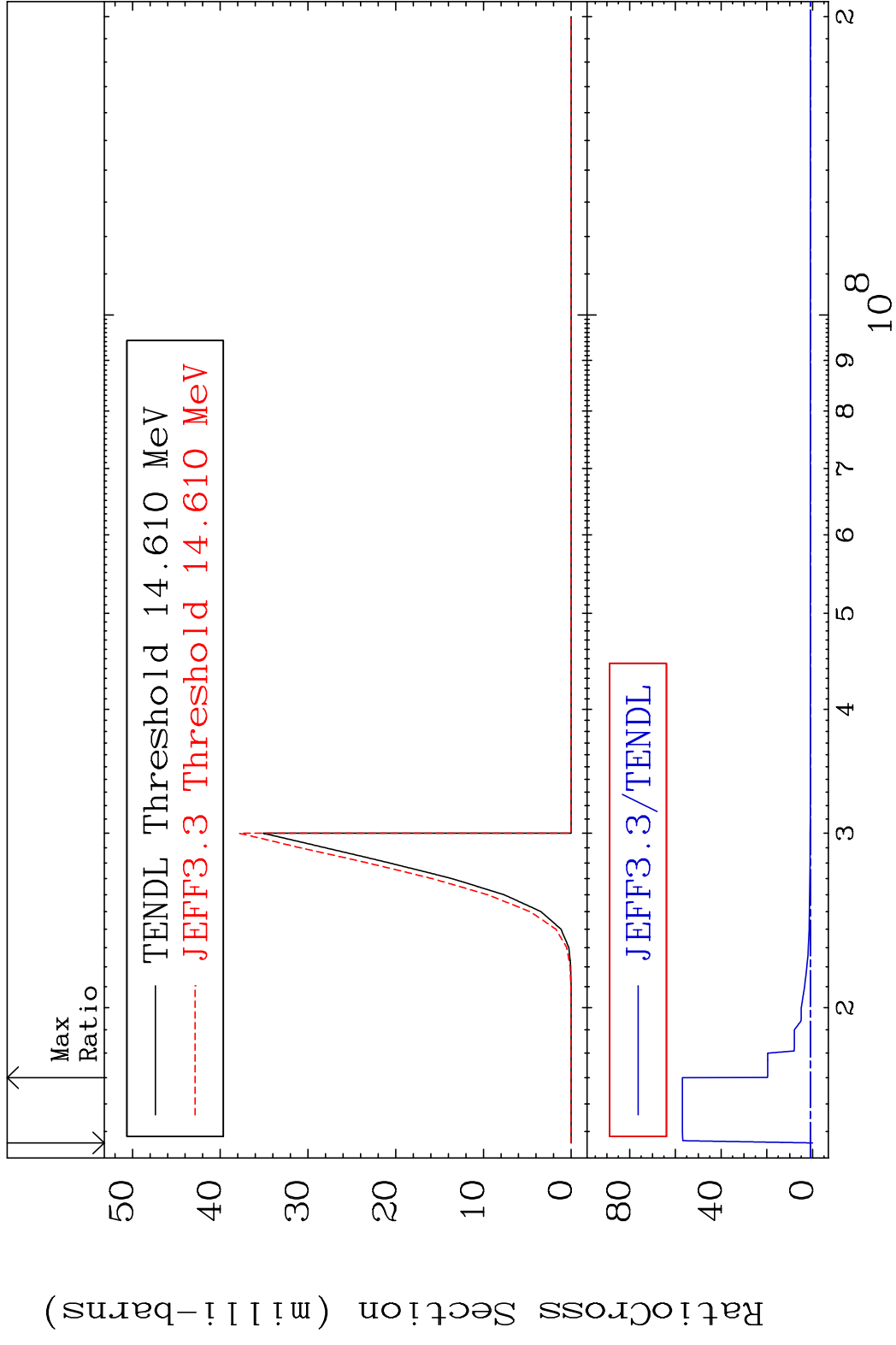
MAT 3125 (n, n')  $\alpha$  31-Ga-69  
 Cross Section -100.0 To 1720. %



7 31-Ga-69



MAT 3125 (n,2n)  $\alpha$  31-Ga-69  
 Cross Section -100.0 To 5595. %

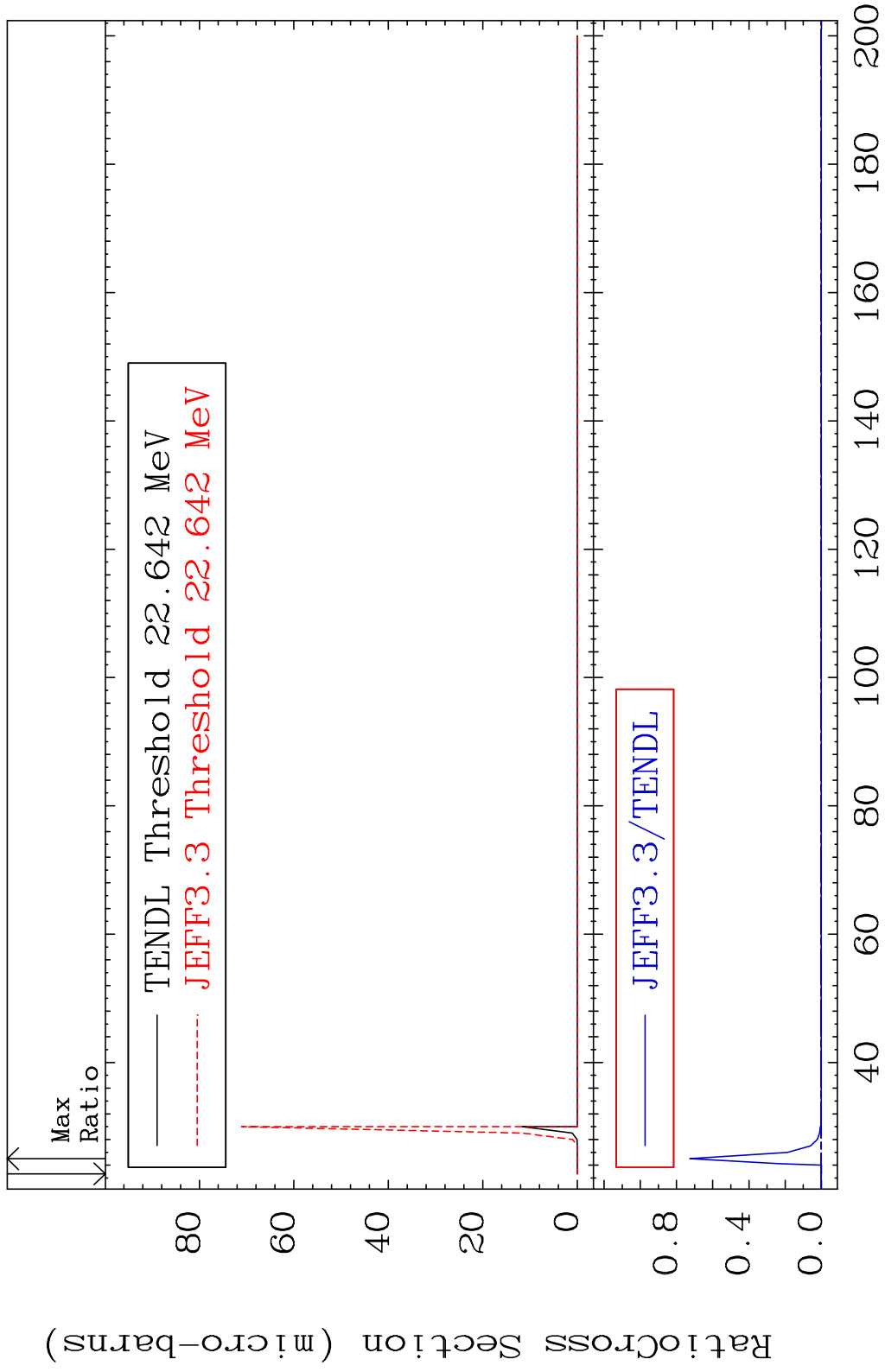


MAT 3125

(n,3n)  $\alpha$

31-Ga-69

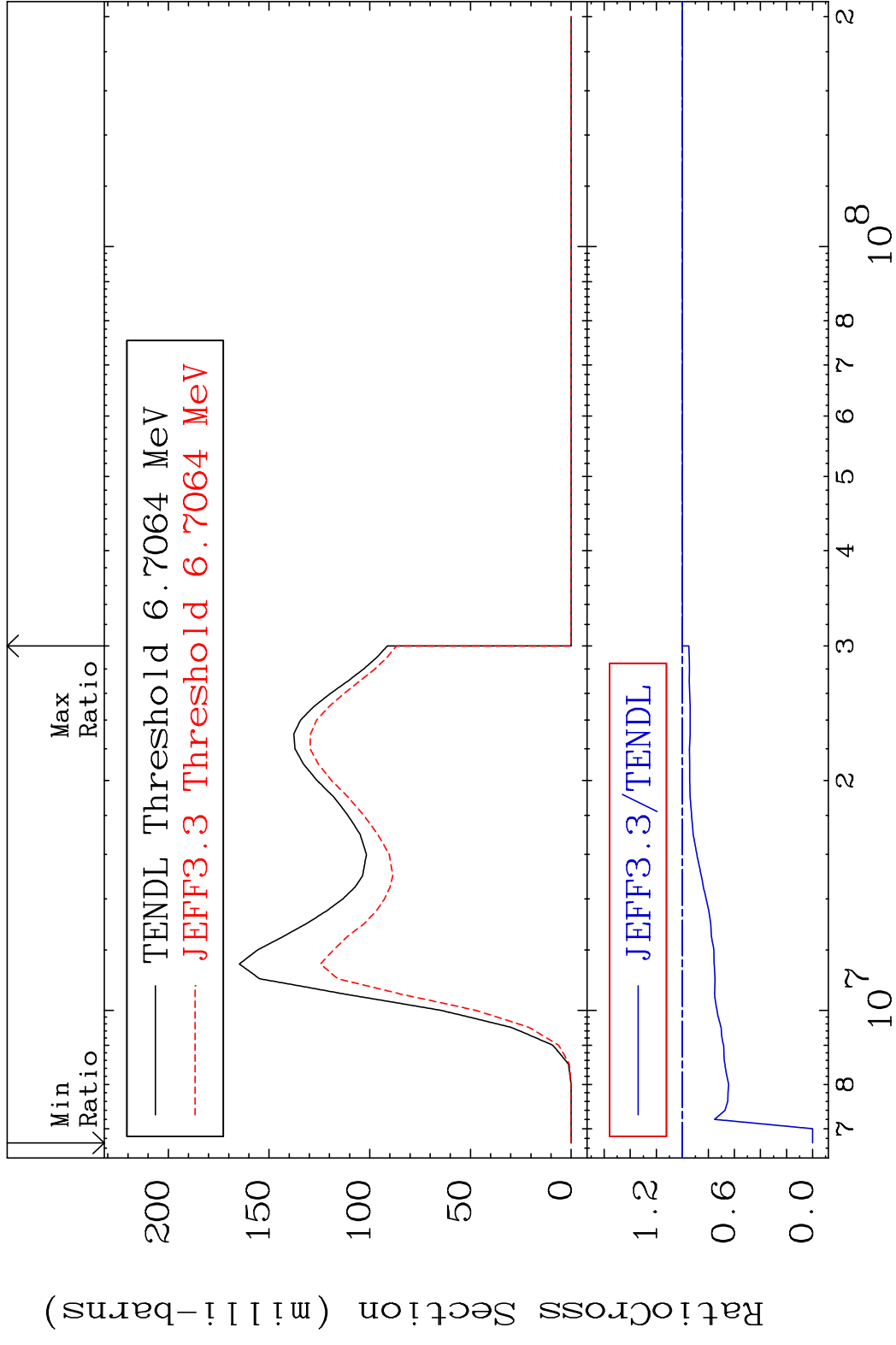
Cross Section -100.0 To 9999. %



MAT 3125

(n, n') p 31-Ga-69

Cross Section -100.0 To 0.000 %

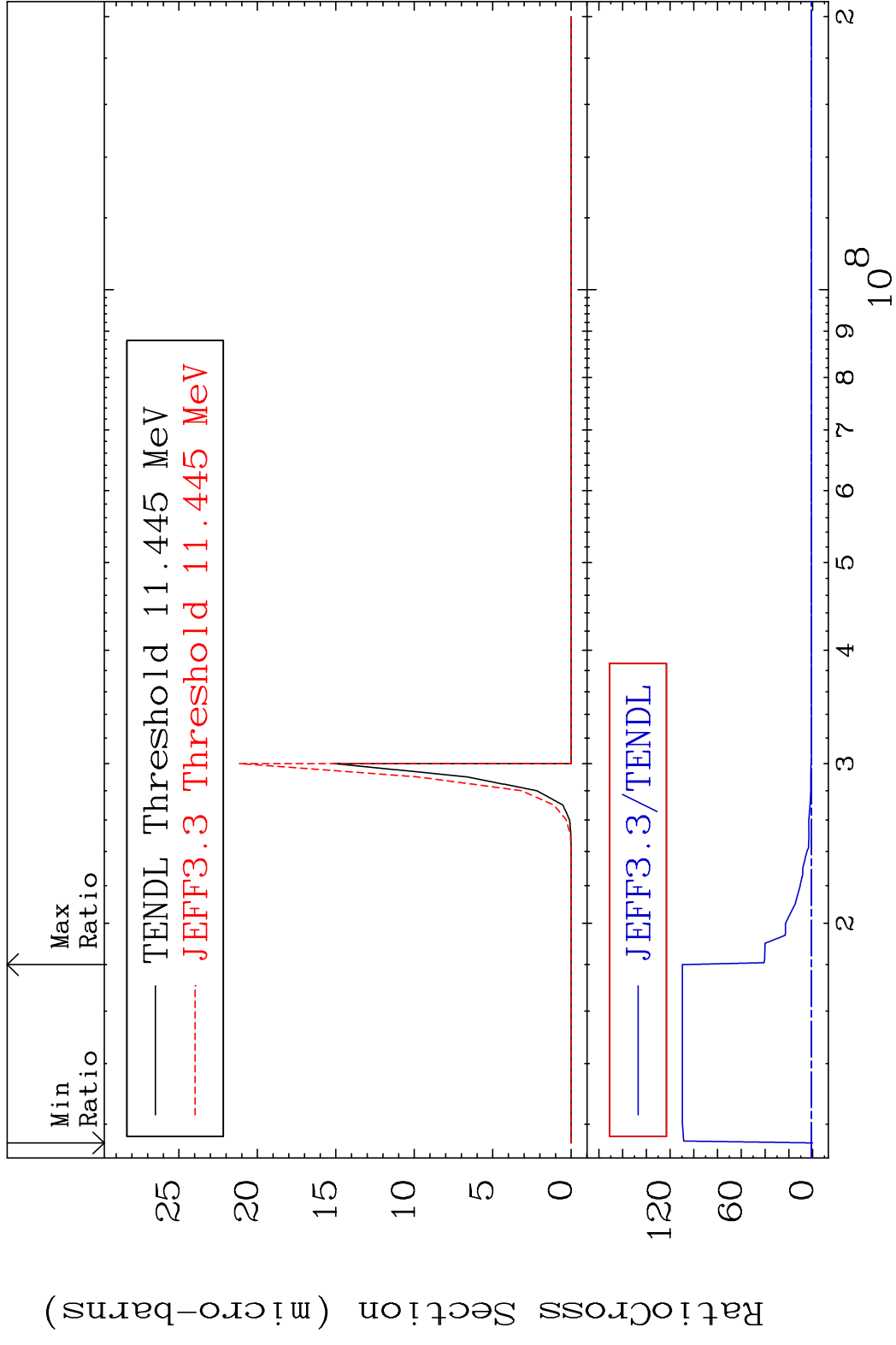


10

Incident Energy (eV)

31-Ga-69

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

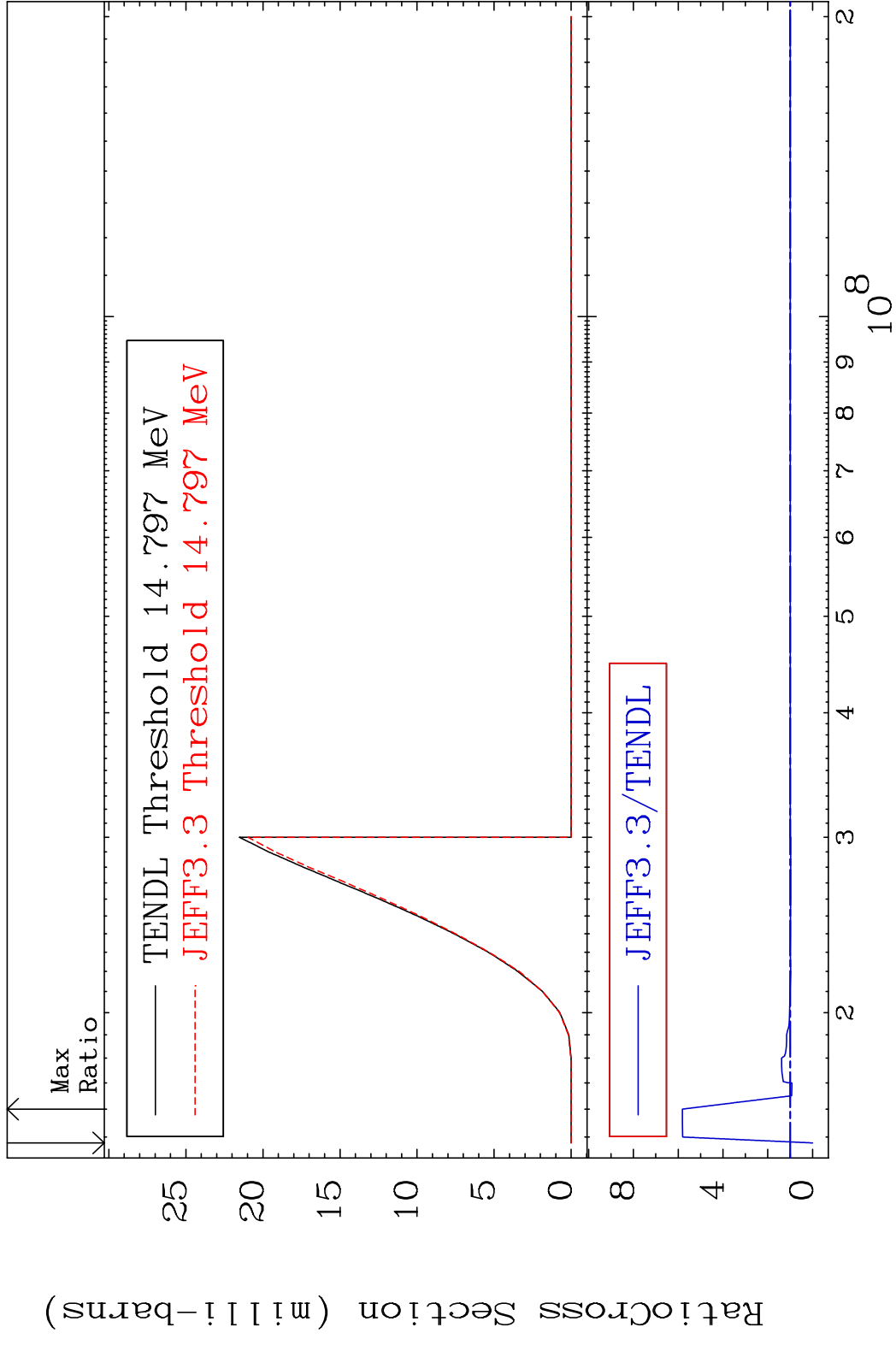


MAT 3125

(n, n') d

31-Ga-69

Cross Section -100.0 To 481.5 %

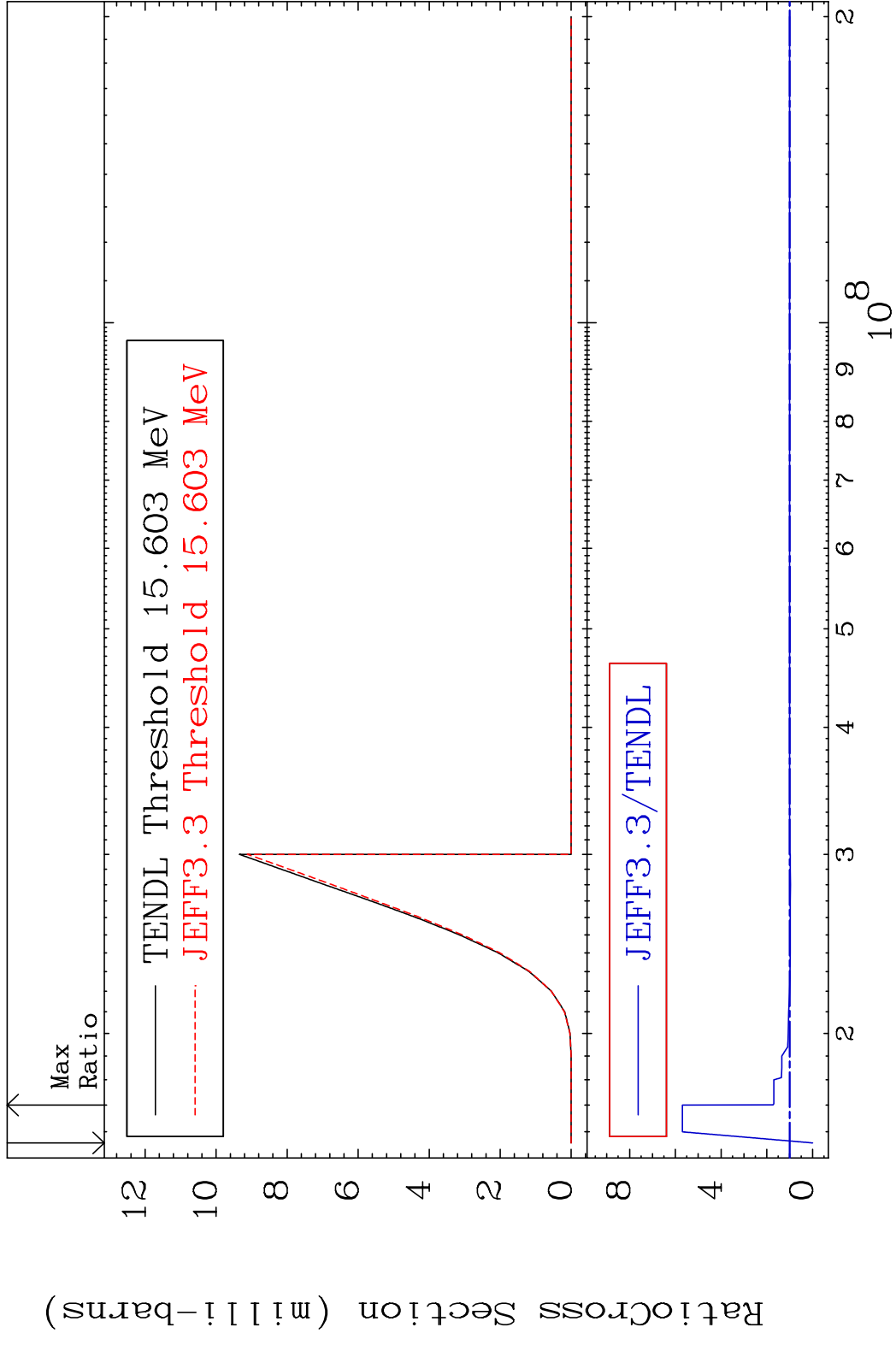


MAT 3125

(n, n') t

31-Ga-69

Cross Section -100.0 To 469.3 %

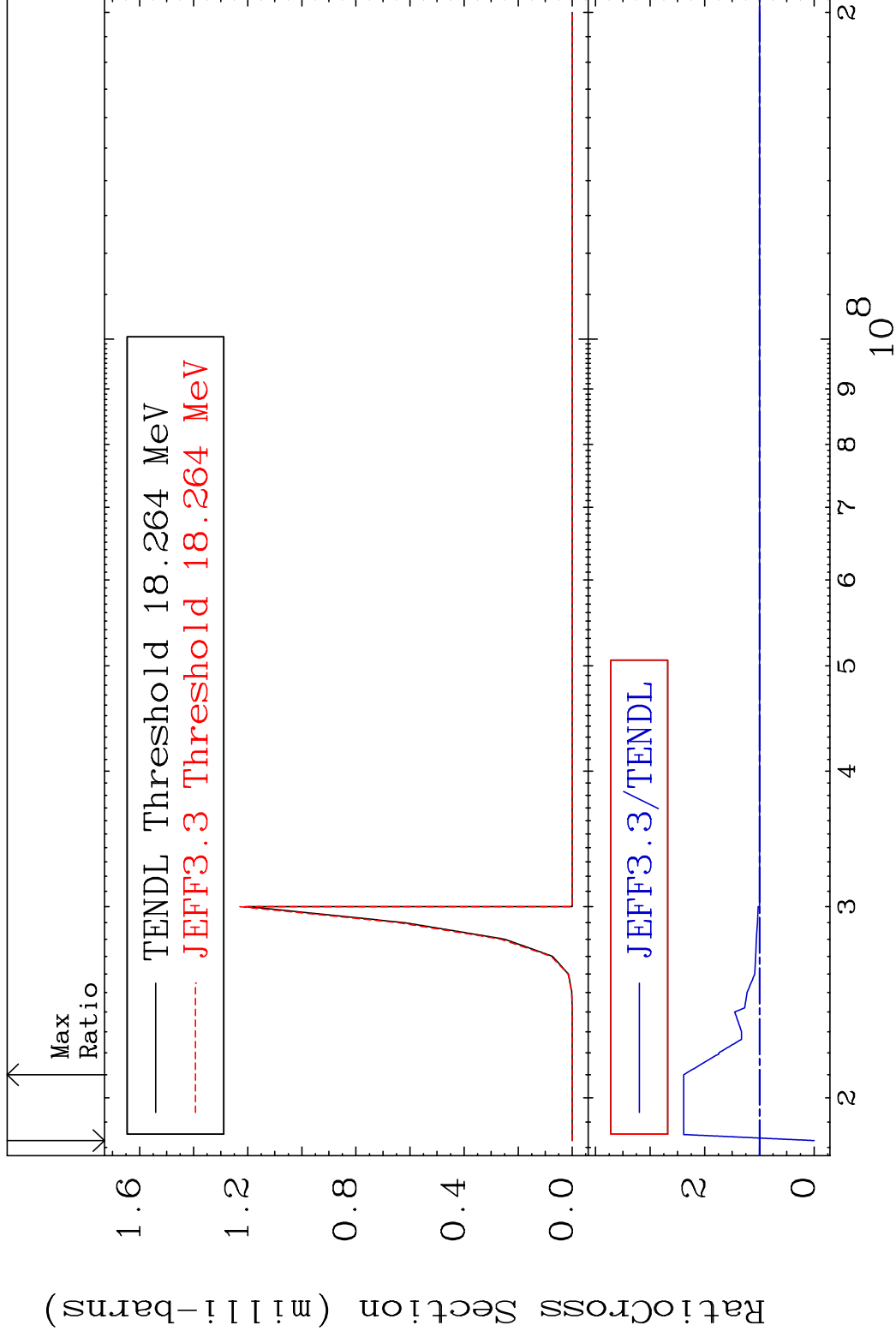


MAT 3125

(n,n') He-3

31-Ga-69

Cross Section -100.0 To 138.7 %

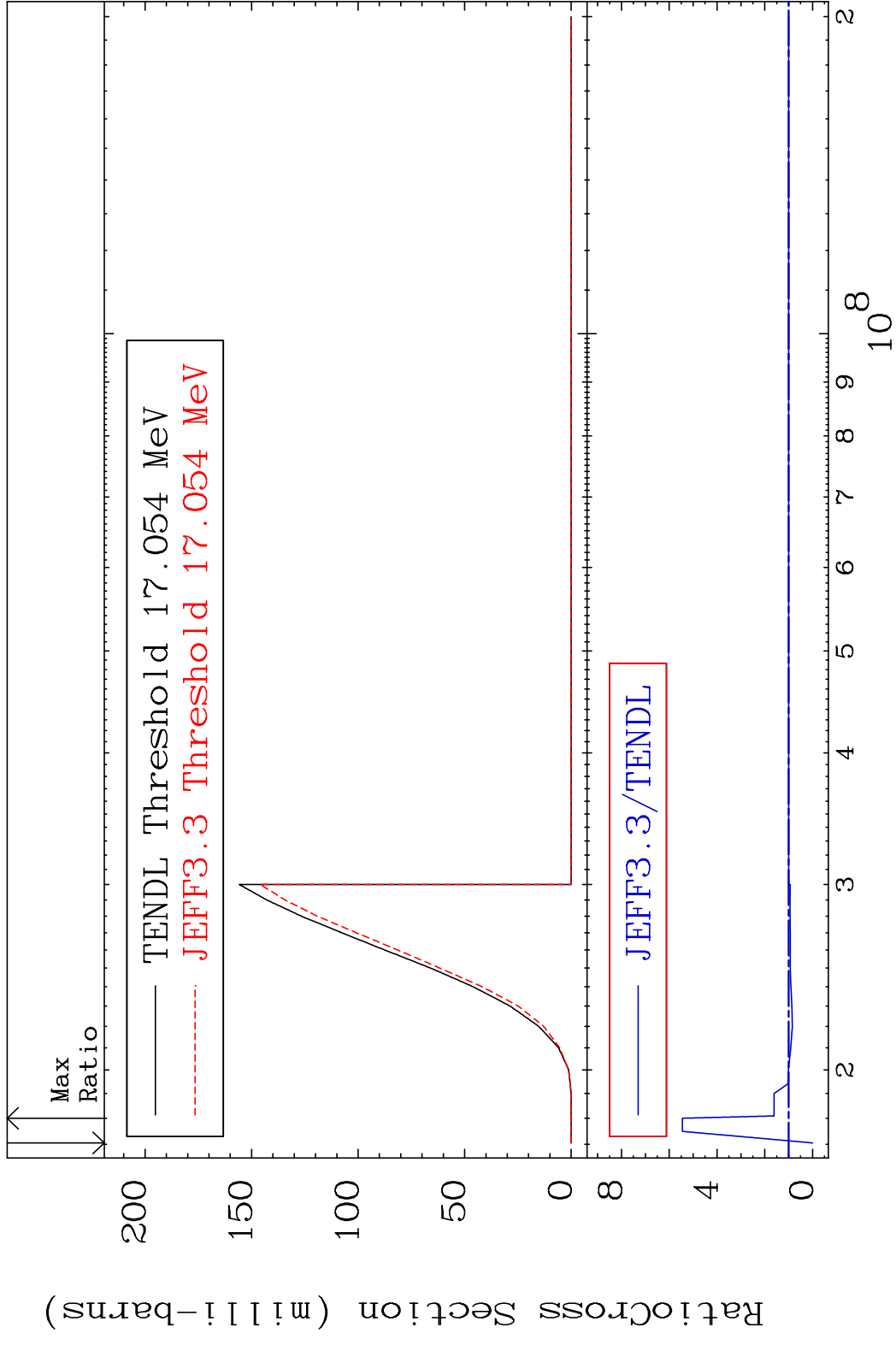


14

Incident Energy (eV)

31-Ga-69

MAT 3125 (n,2n) p 31-Ga-69  
 Cross Section -100.0 To 445.1 %



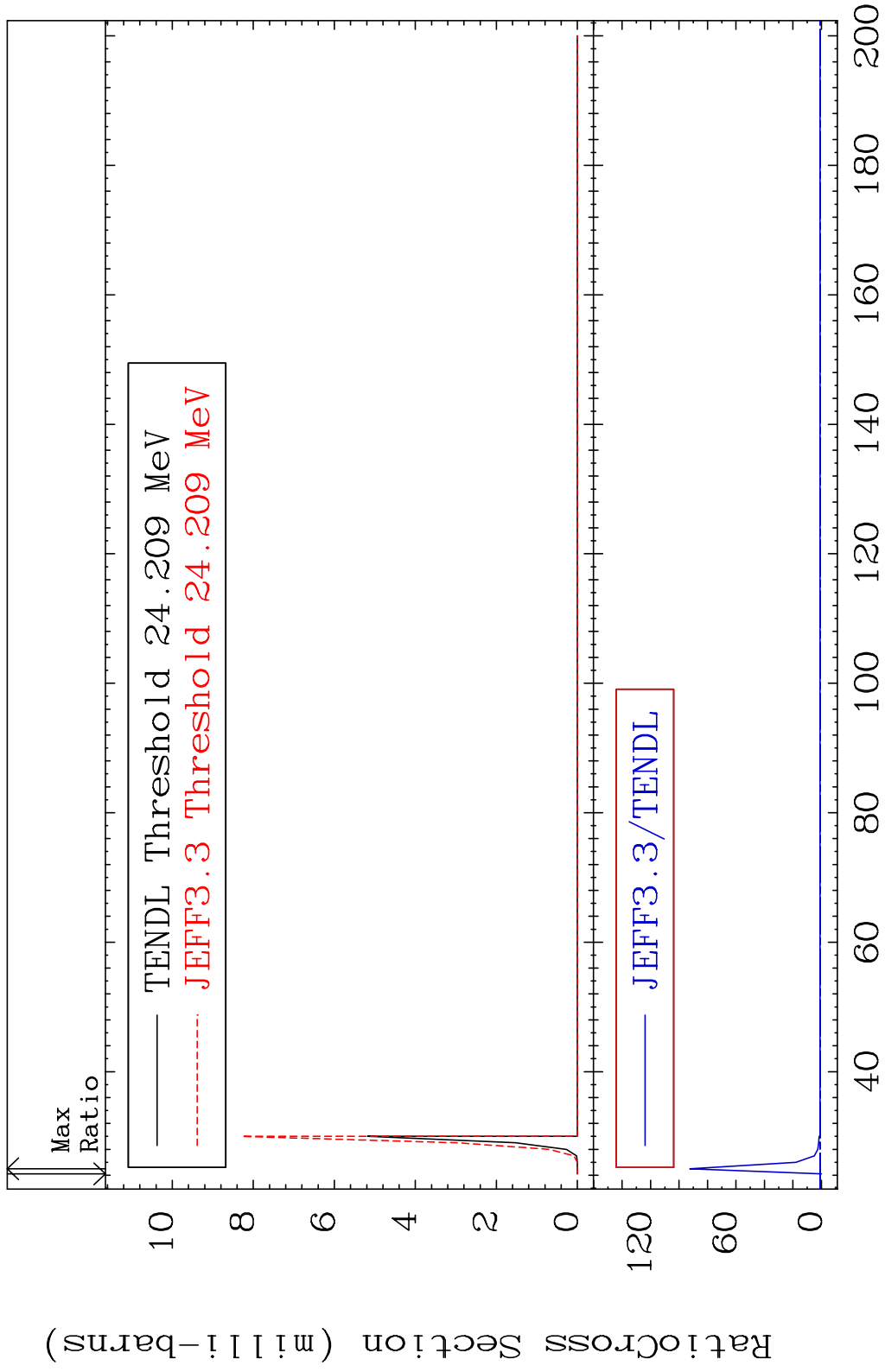


MAT 3125

(n,3n) p

31-Ga-69

Cross Section -100.0 To 9147. %

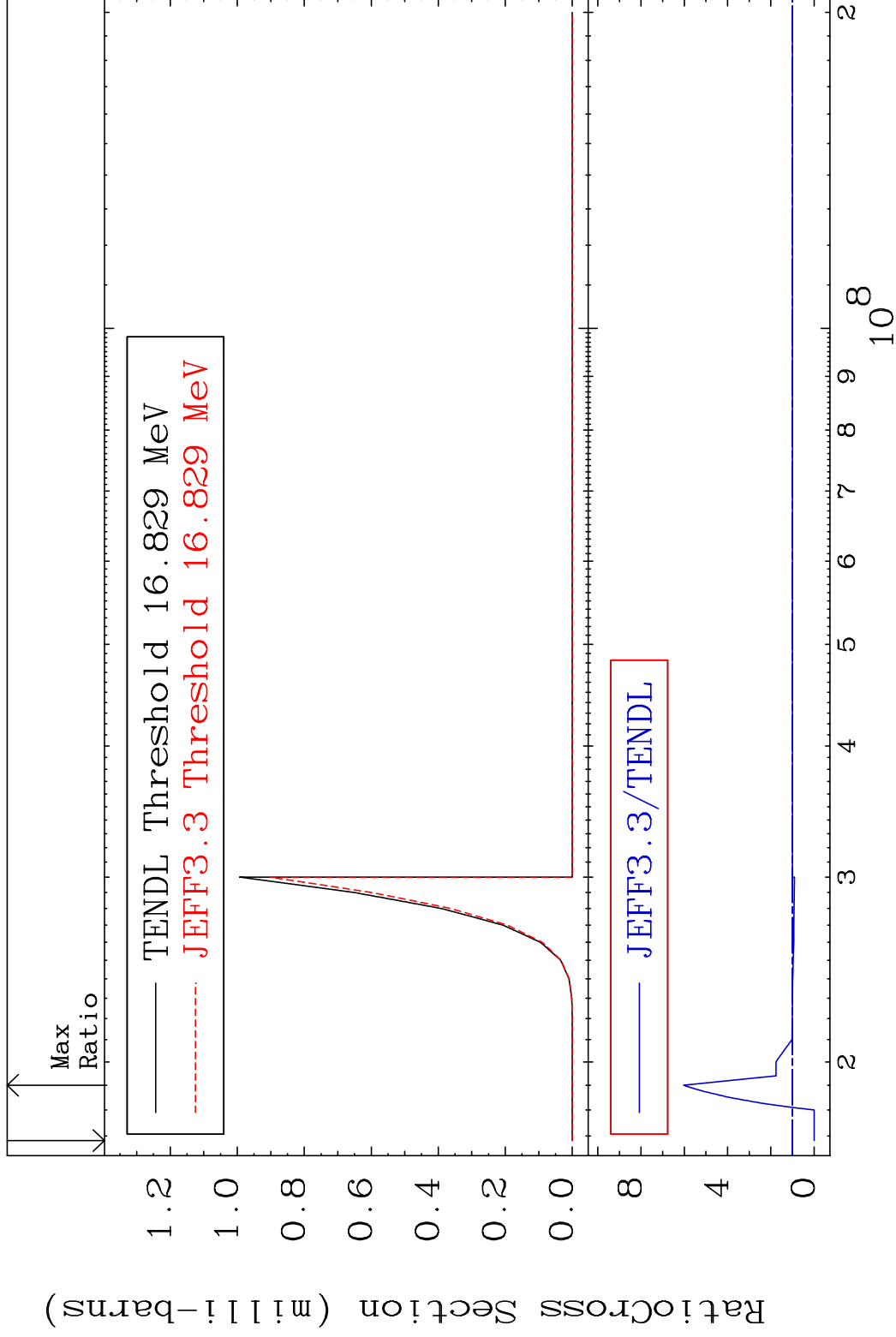


MAT 3125

(n,2n) p

31-Ga-69

Cross Section -100.0 To 503.1 %



17

Incident Energy (eV)

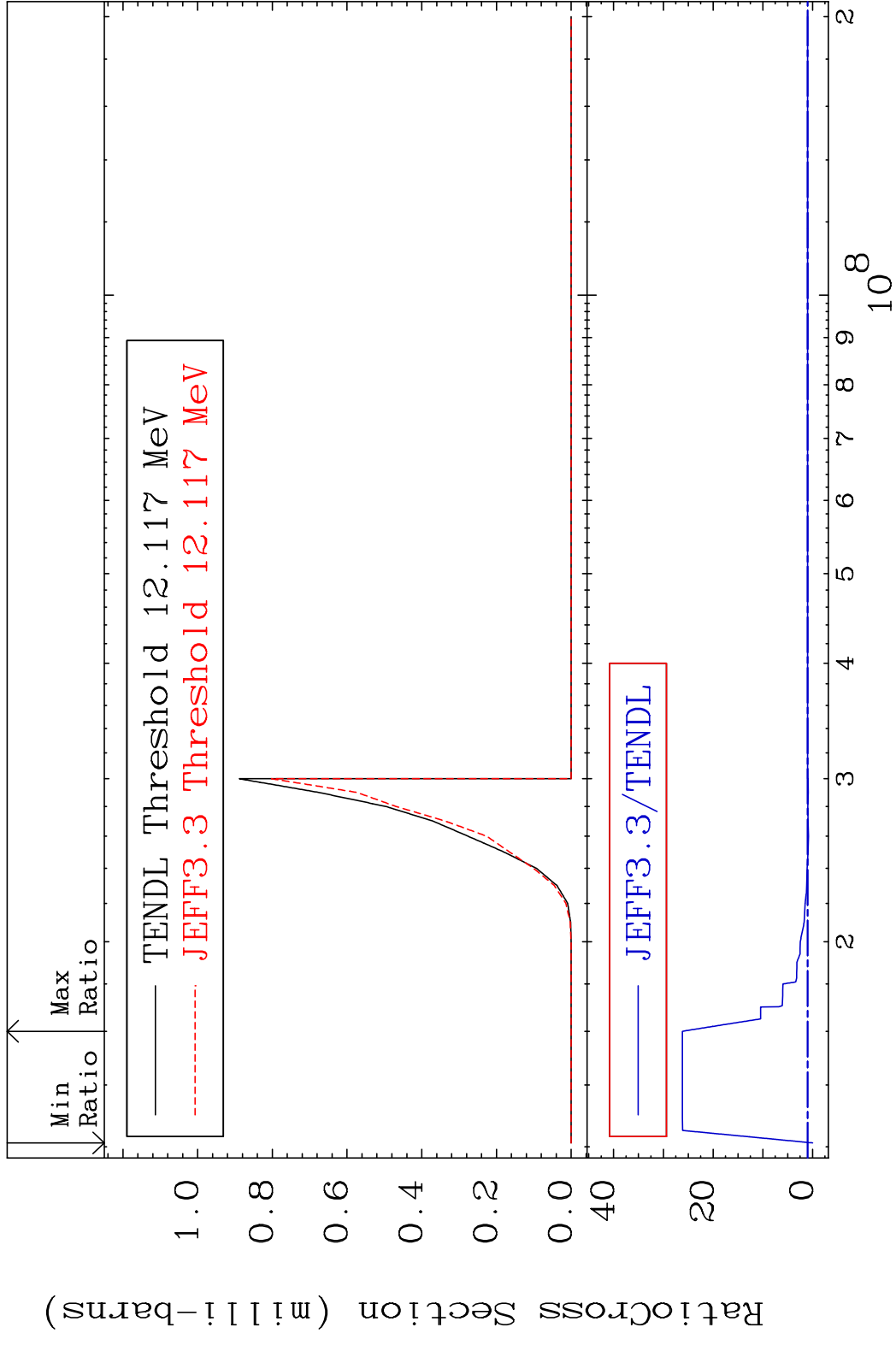
31-Ga-69

MAT 3125

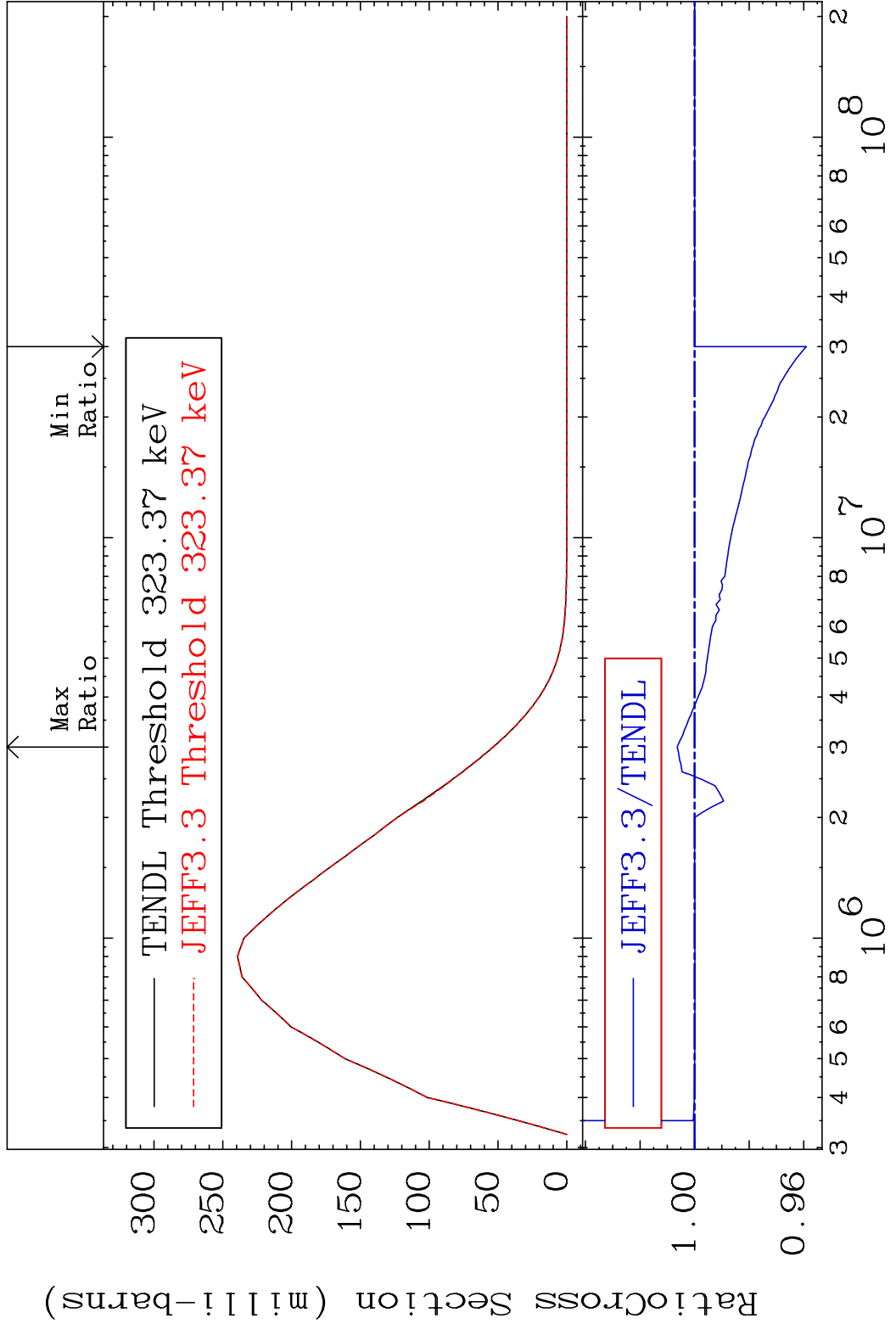
(n,n') p  $\alpha$

31-Ga-69

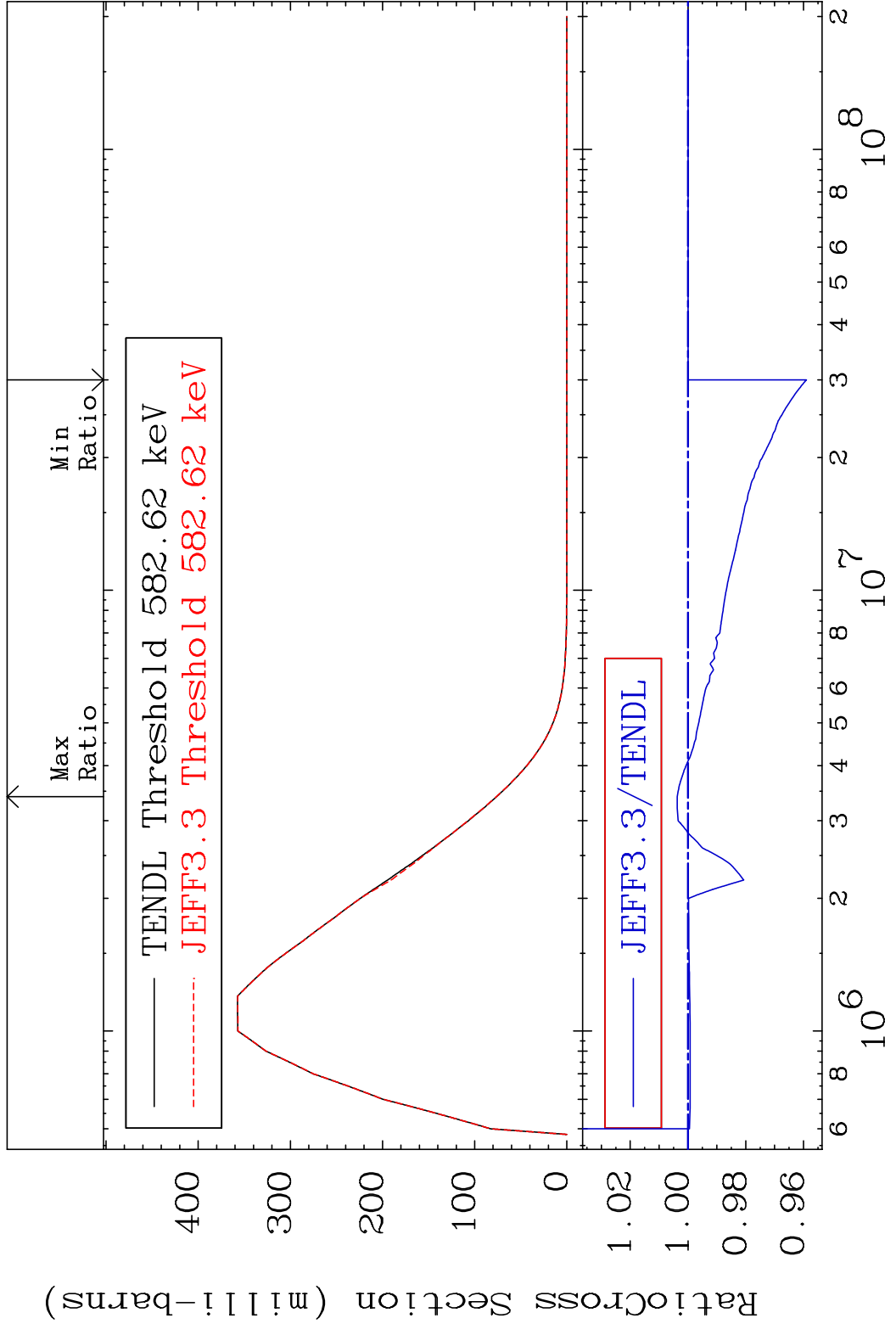
Cross Section -100.0 To 2518. %



MAT 3125 MT= 51 (n,n') Level 31-Ga-69  
 Cross Section -4.099 To 0.637 %

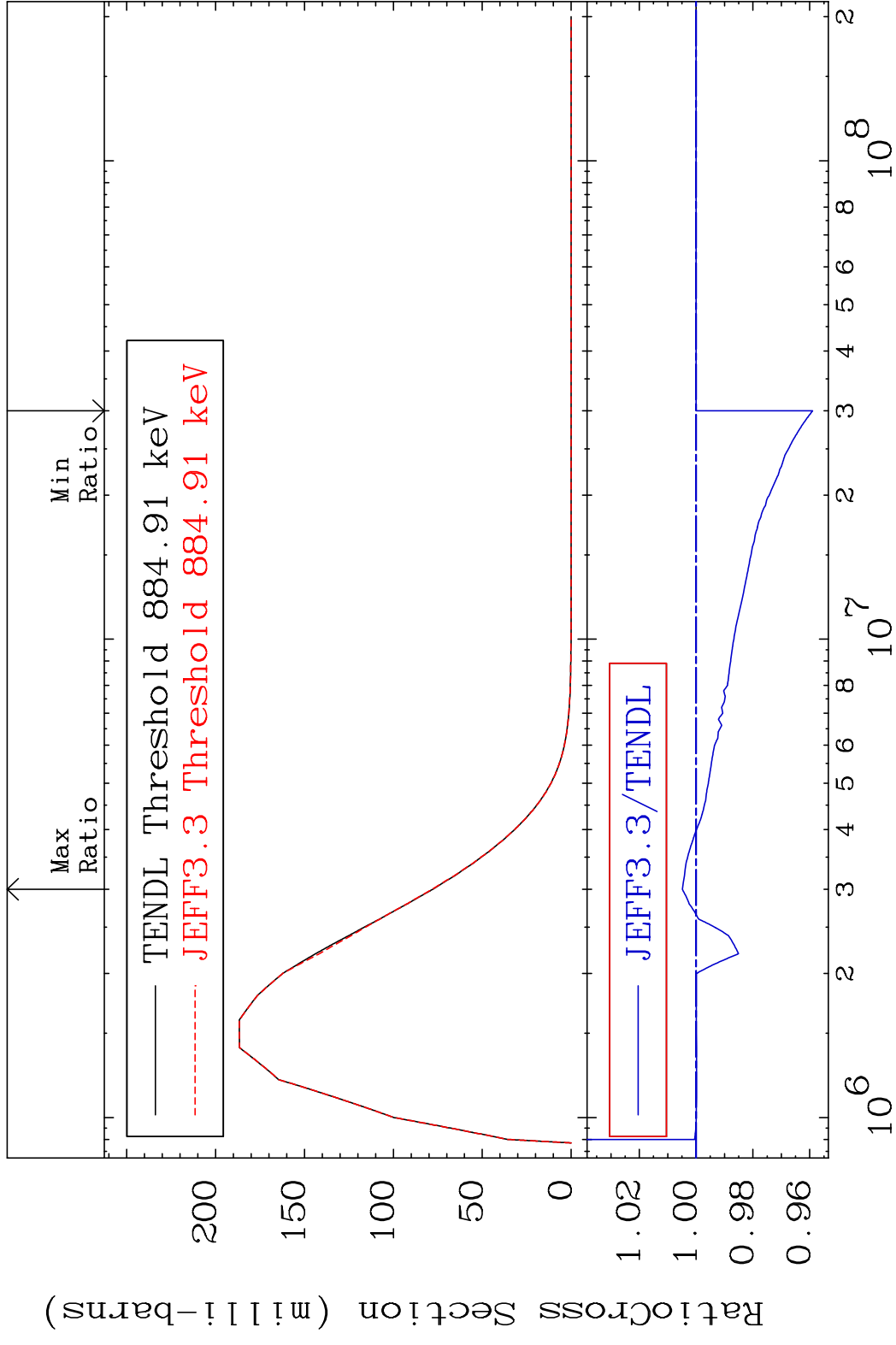


MAT 3125 MT= 52 (n, n') Level 31-Ga-69  
 Cross Section -4.101 To 0.374 %



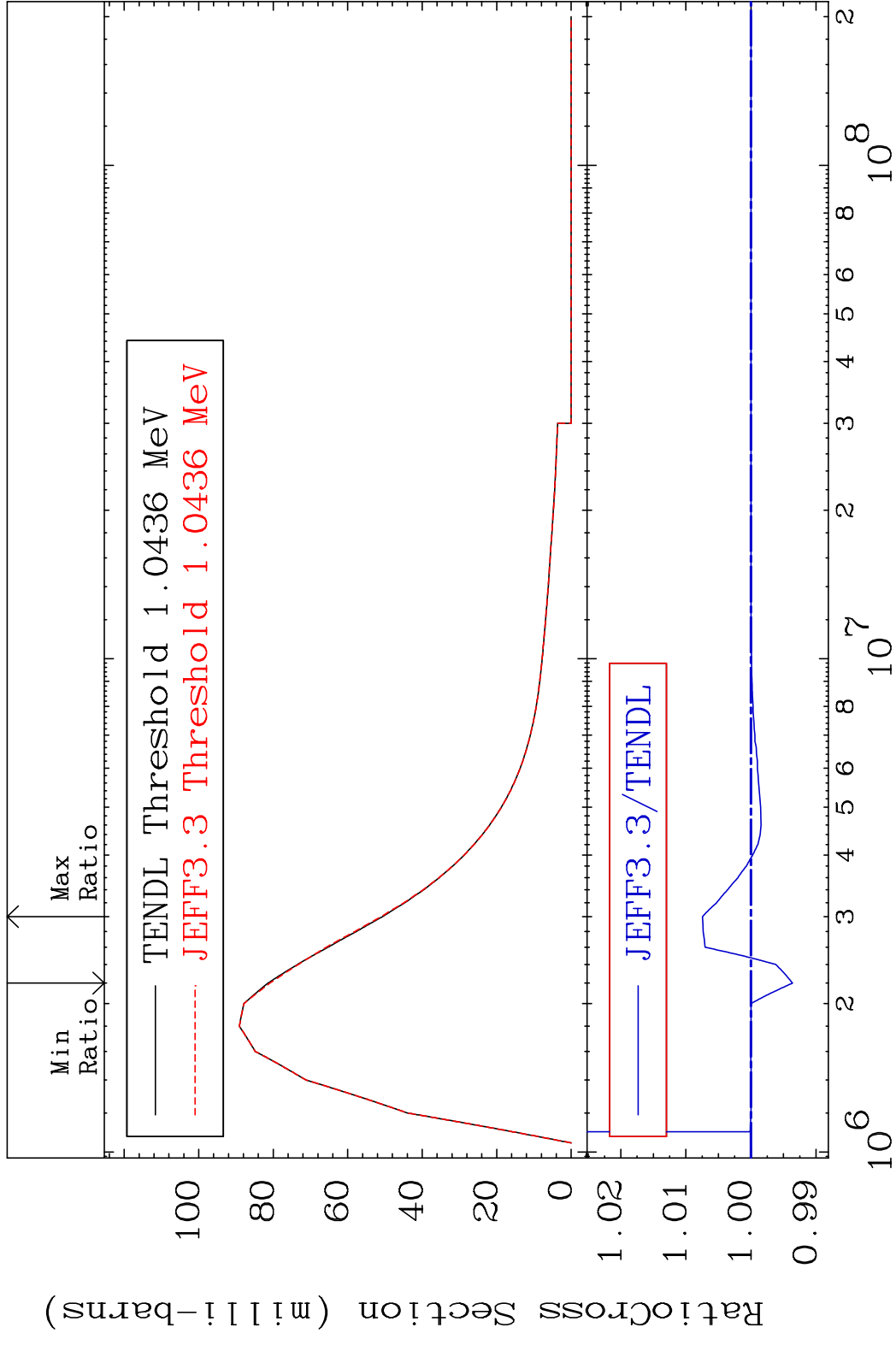
20 Incident Energy (eV) 31-Ga-69

MAT 3125 MT= 53 (n, n') Level 31-Ga-69  
 Cross Section -4.100 To 0.485 %

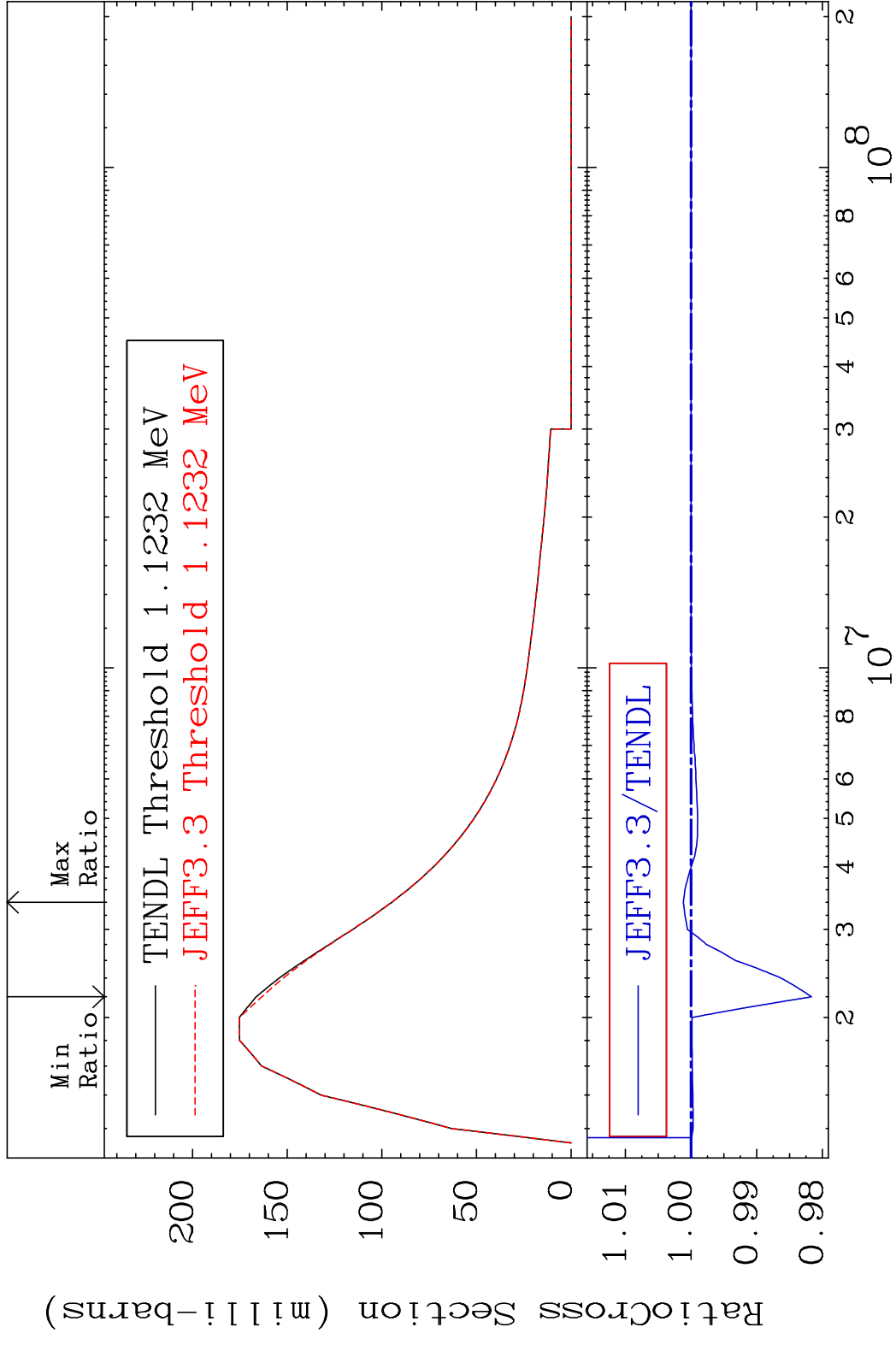


21 Incident Energy (eV) 31-Ga-69

MAT 3125 MT= 54 (n,n') Level 31-Ga-69  
 Cross Section -0.638 To 0.745 %

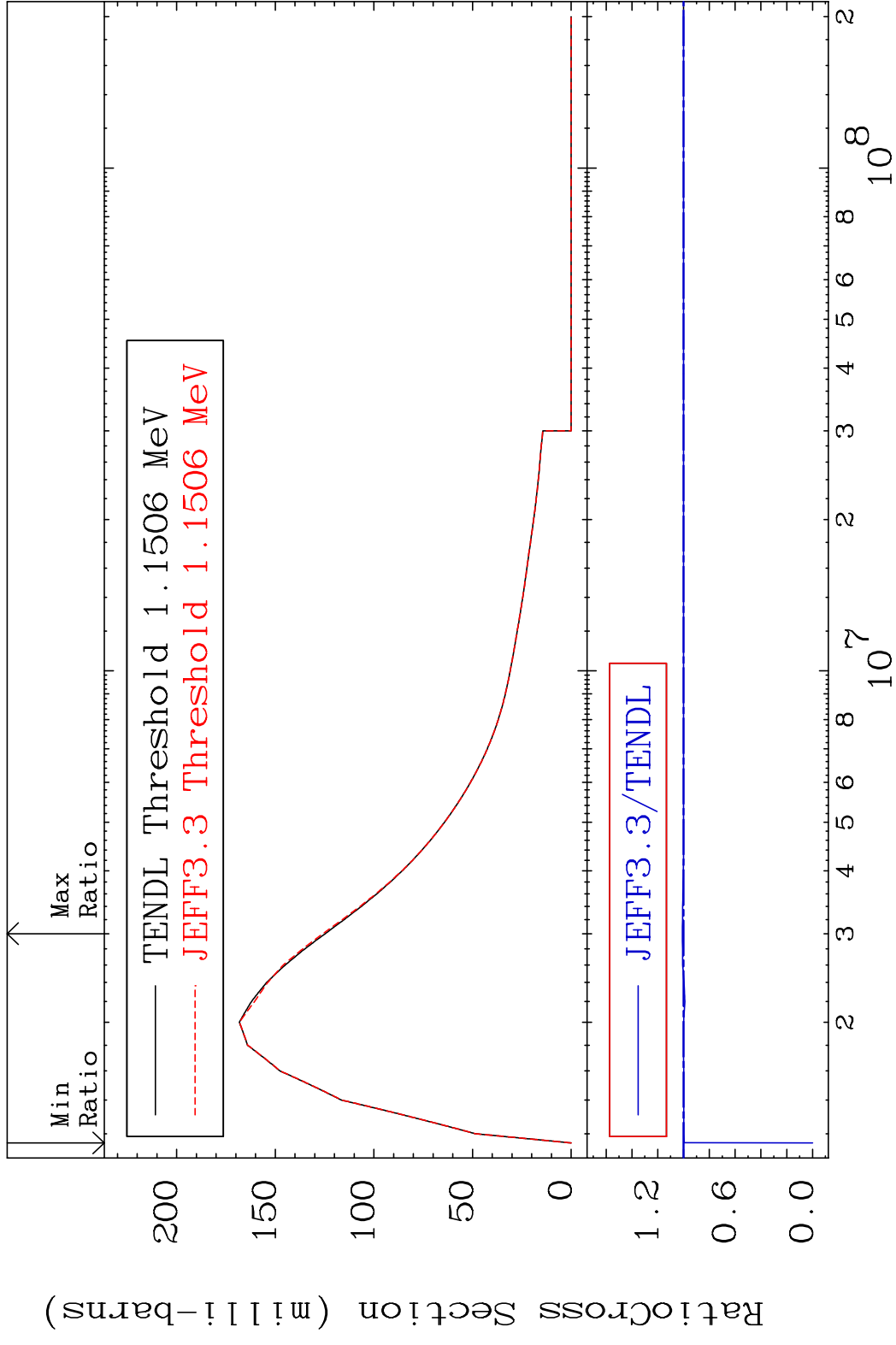


MAT 3125 MT= 55 (n,n') Level 31-Ga-69  
 Cross Section -1.836 To 0.116 %

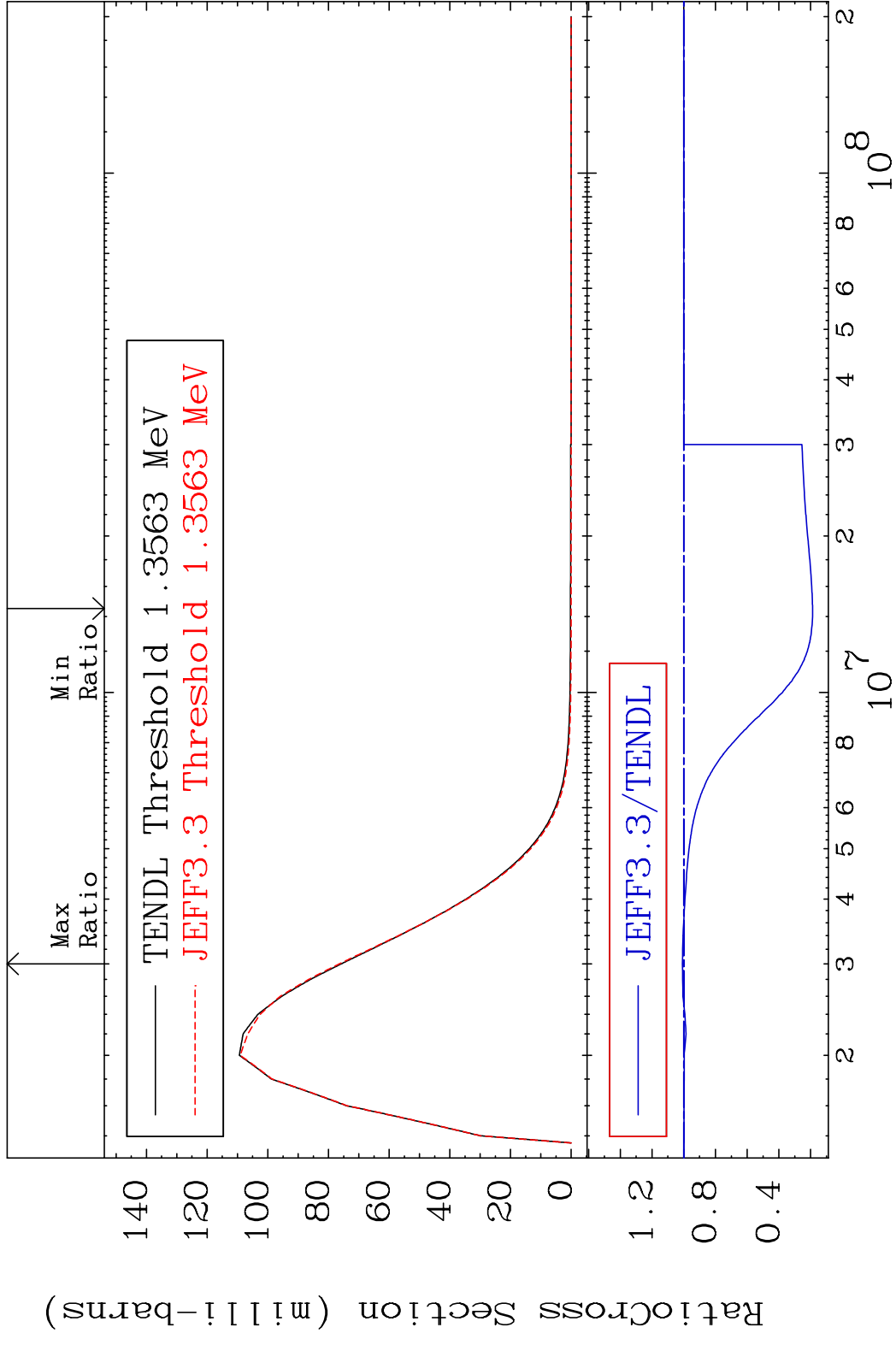




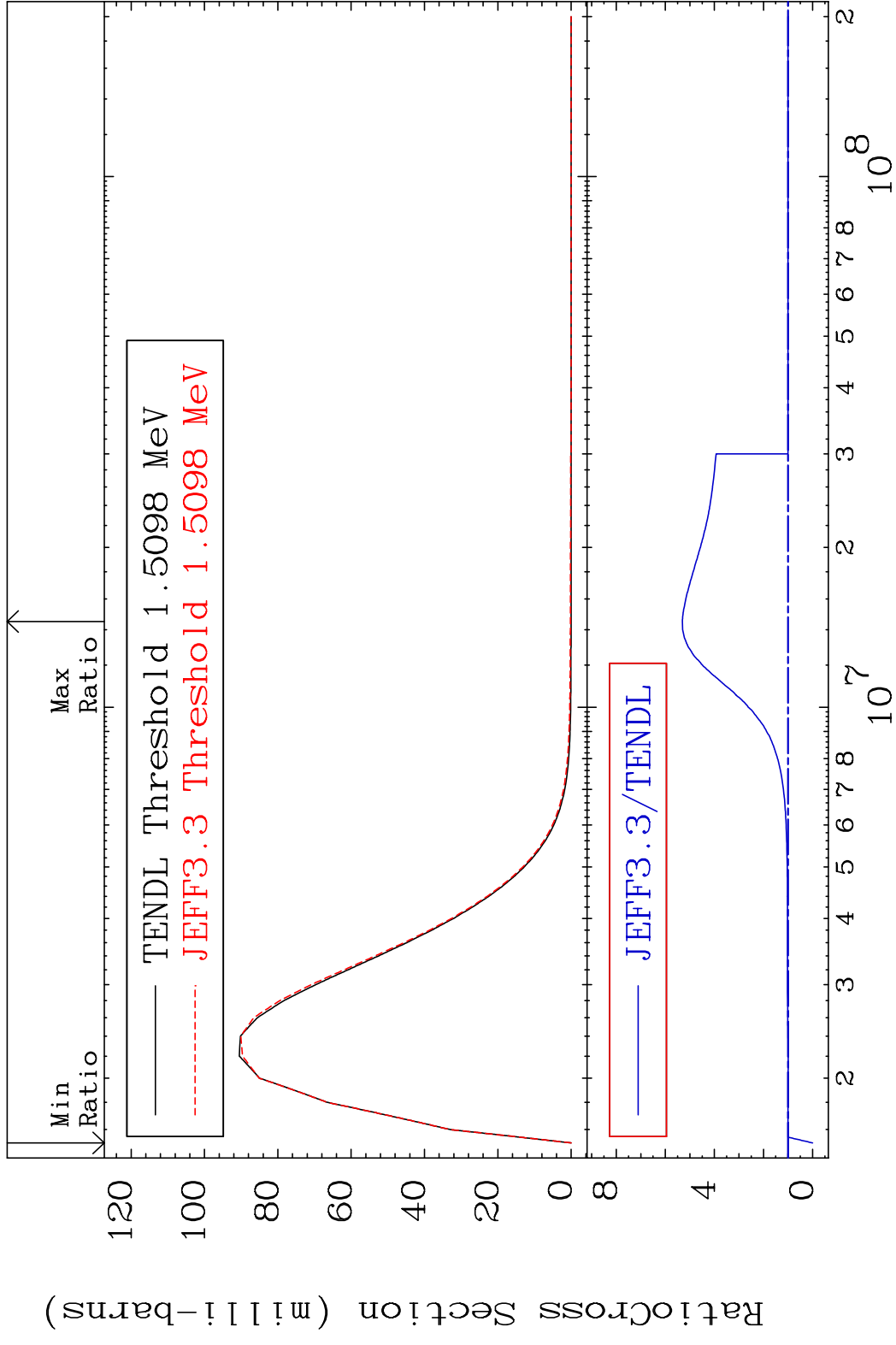
MAT 3125 MT= 56 (n, n') Level 31-Ga-69  
 Cross Section -100.0 To 0.923 %



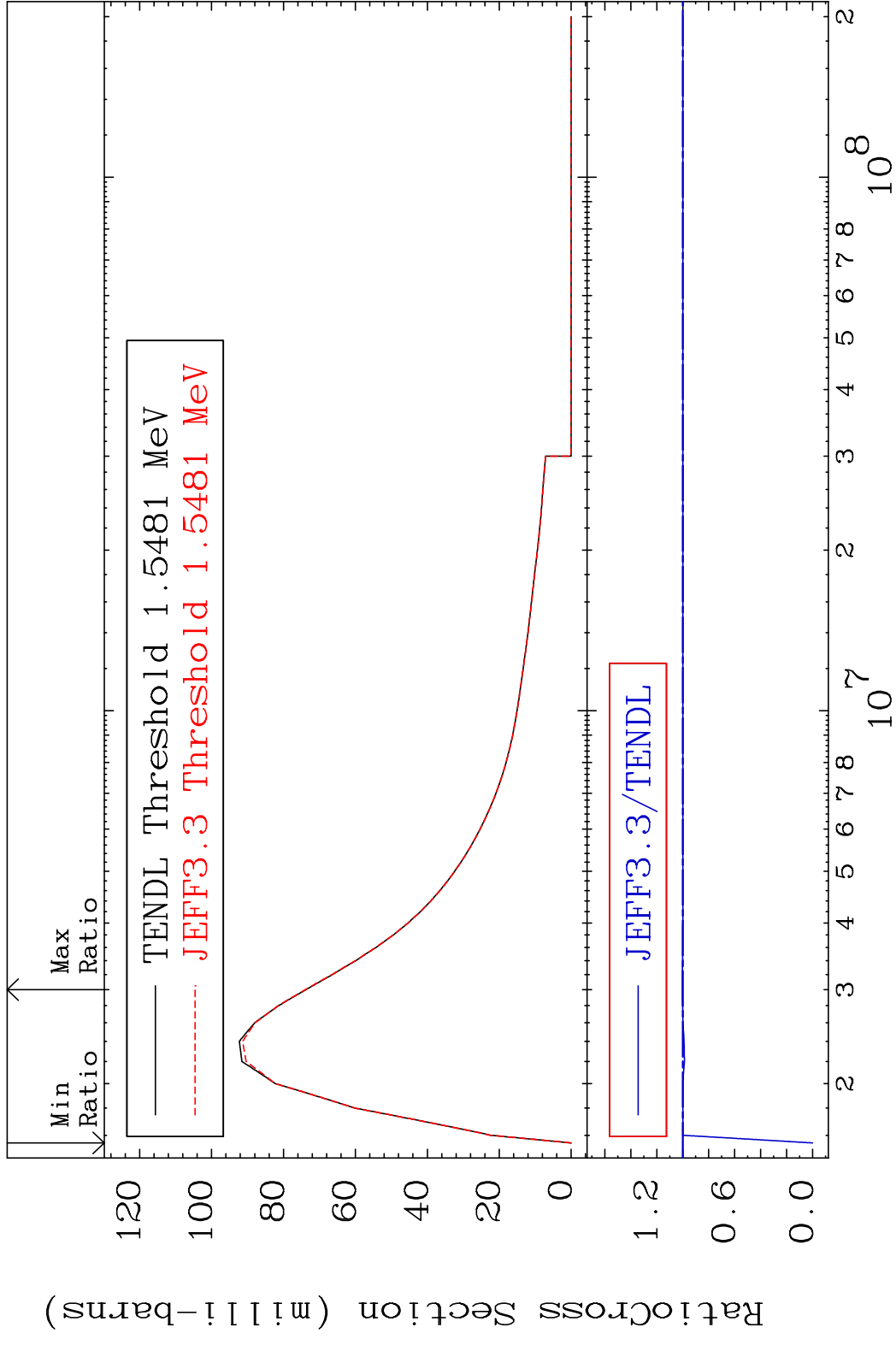
MAT 3125 MT= 57 (n,n') Level 31-Ga-69  
 Cross Section -81.22 To 0.866 %



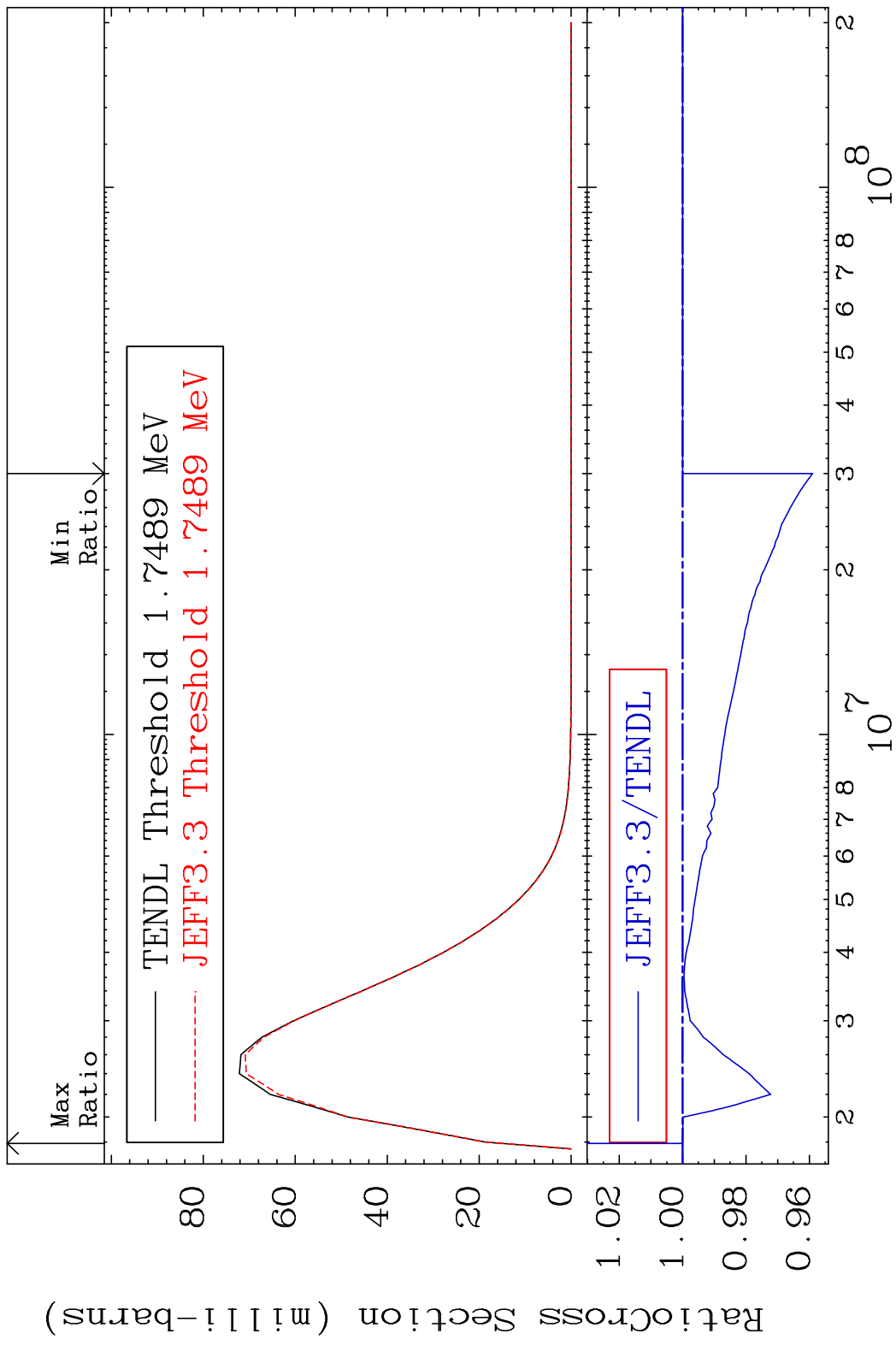
MAT 3125 MT= 58 (n, n') Level 31-Ga-69  
 Cross Section -100.0 To 430.6 %



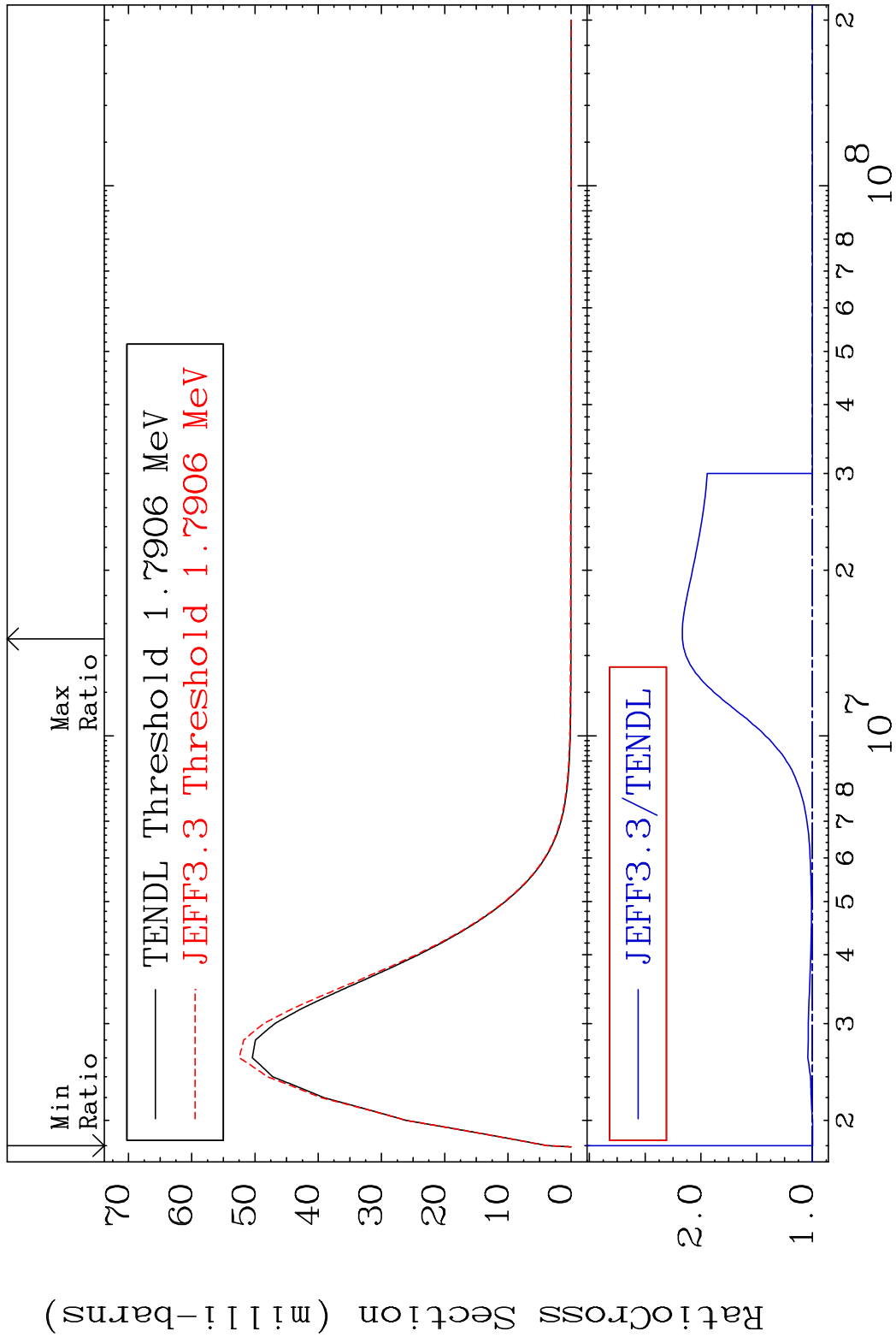
MAT 3125 MT= 59 (n,n') Level 31-Ga-69  
 Cross Section -100.0 To 0.293 %



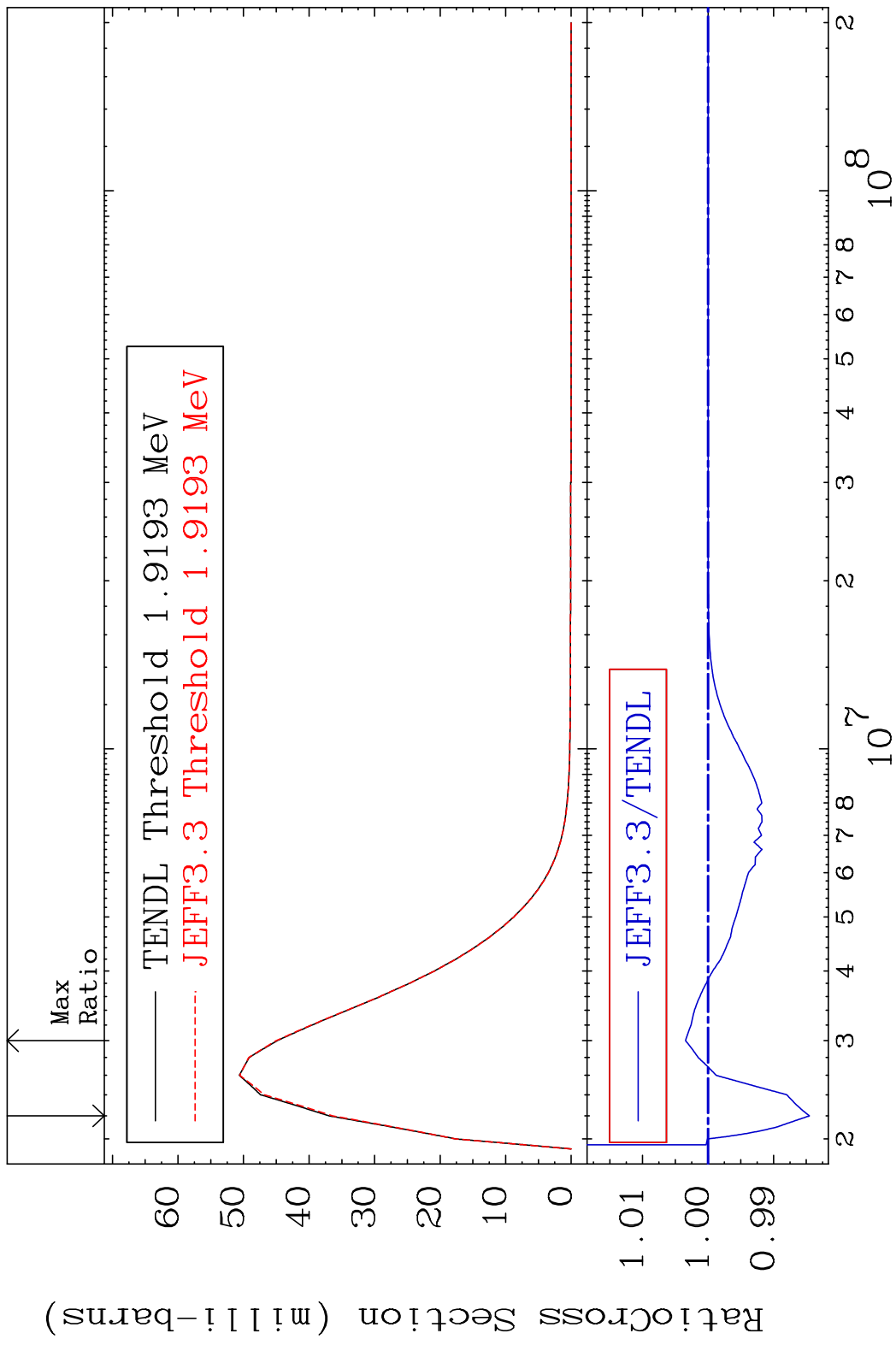
MAT 3125 MT= 60 (n, n') Level 31-Ga-69  
 Cross Section -4.100 To 0.008 %



MAT 3125 MT= 61 (n,n') Level 31-Ga-69  
 Cross Section -0.115 To 116.6 %

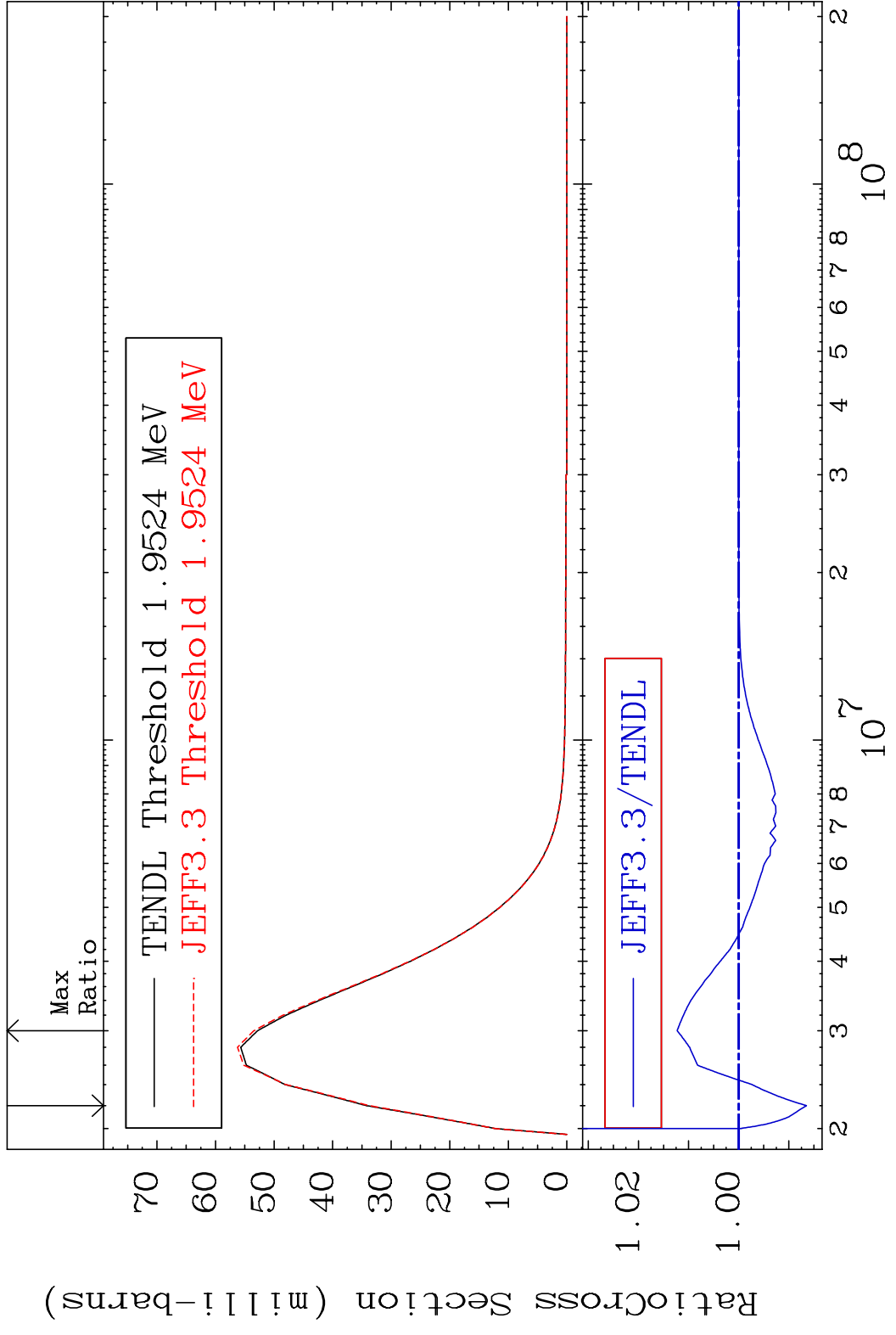


MAT 3125 MT= 62 (n, n') Level 31-Ga-69  
 Cross Section -1.548 To 0.344 %



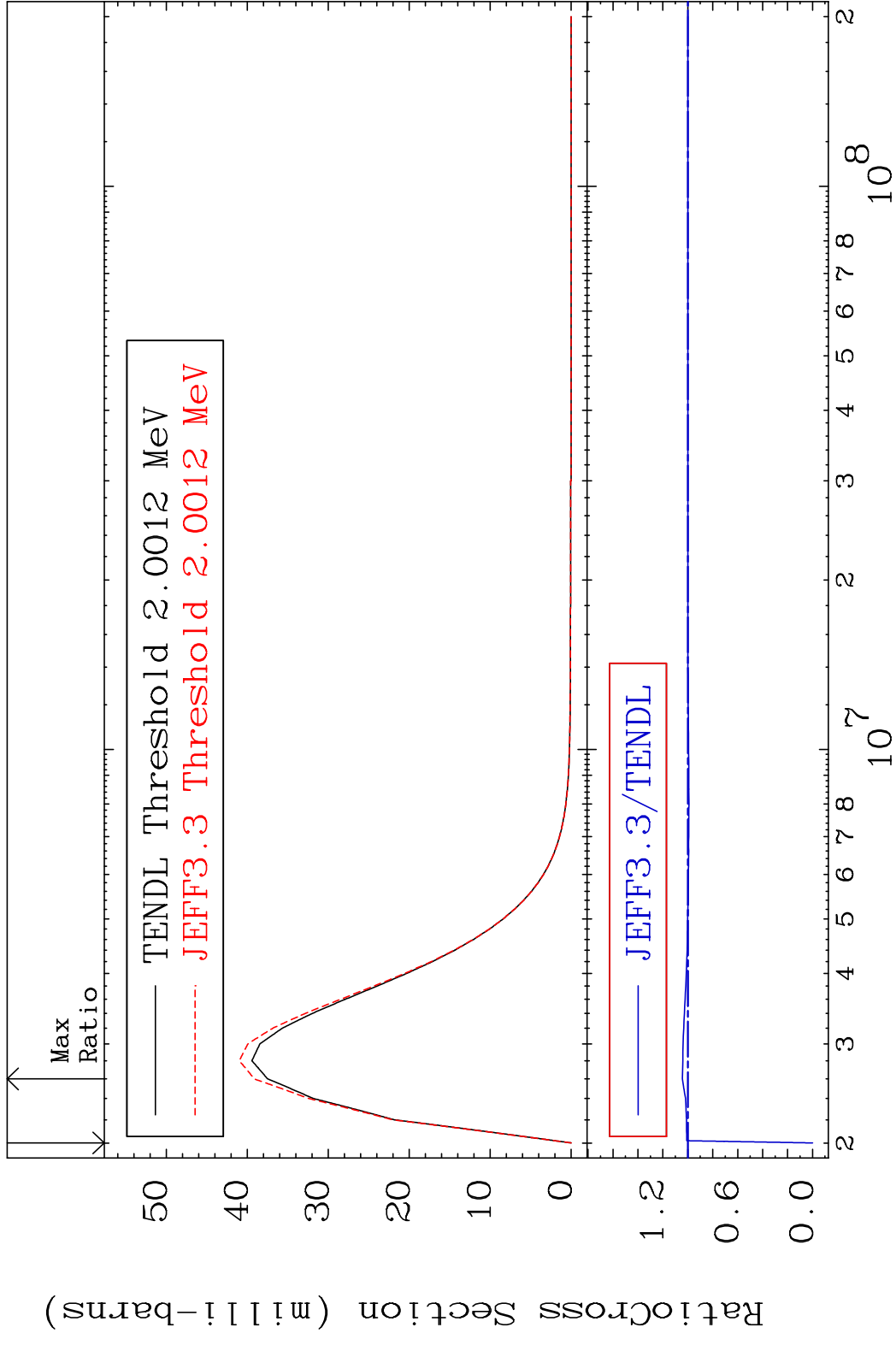
30 Incident Energy (eV) 31-Ga-69

MAT 3125 MT= 63 (n, n') Level 31-Ga-69  
 Cross Section -1.351 To 1.228 %

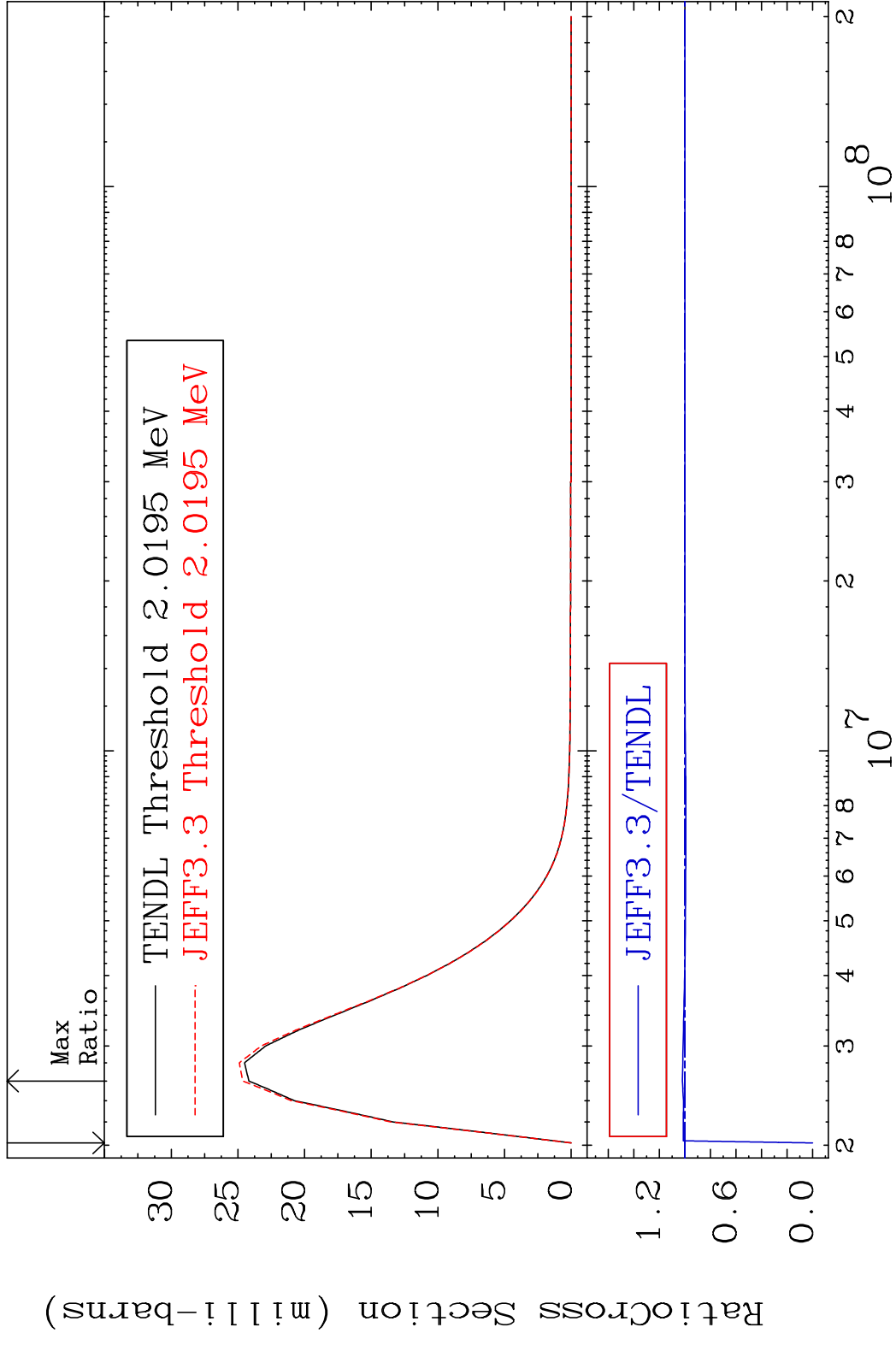




MAT 3125 MT= 64 (n, n') Level 31-Ga-69  
 Cross Section -100.0 To 4.376 %



MAT 3125 MT= 65 (n,n') Level 31-Ga-69  
 Cross Section -100.0 To 1.924 %

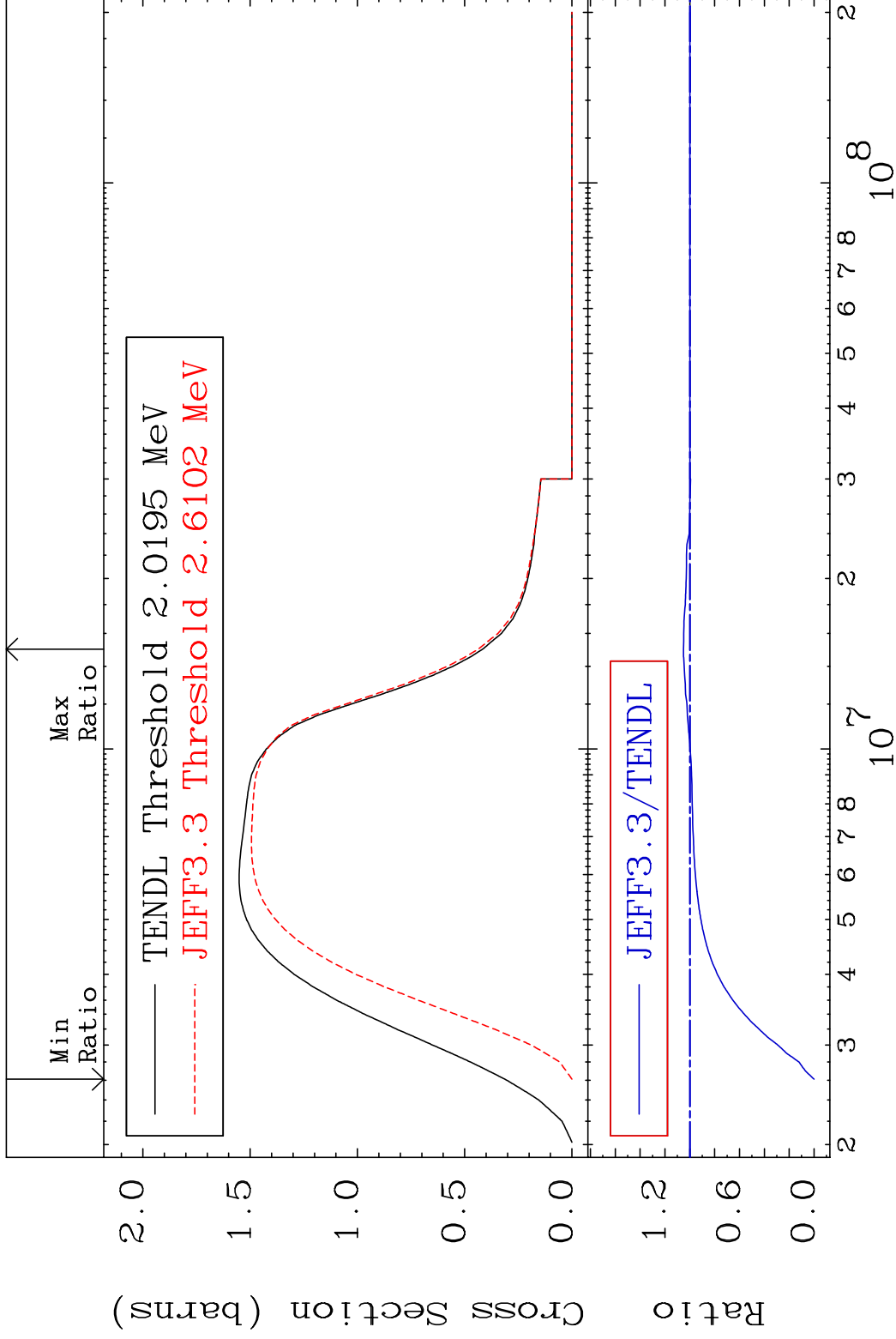


MAT 3125

(n, n') Continuum

31-Ga-69

Cross Section -100.0 To 5.122 %



34

Incident Energy (eV)

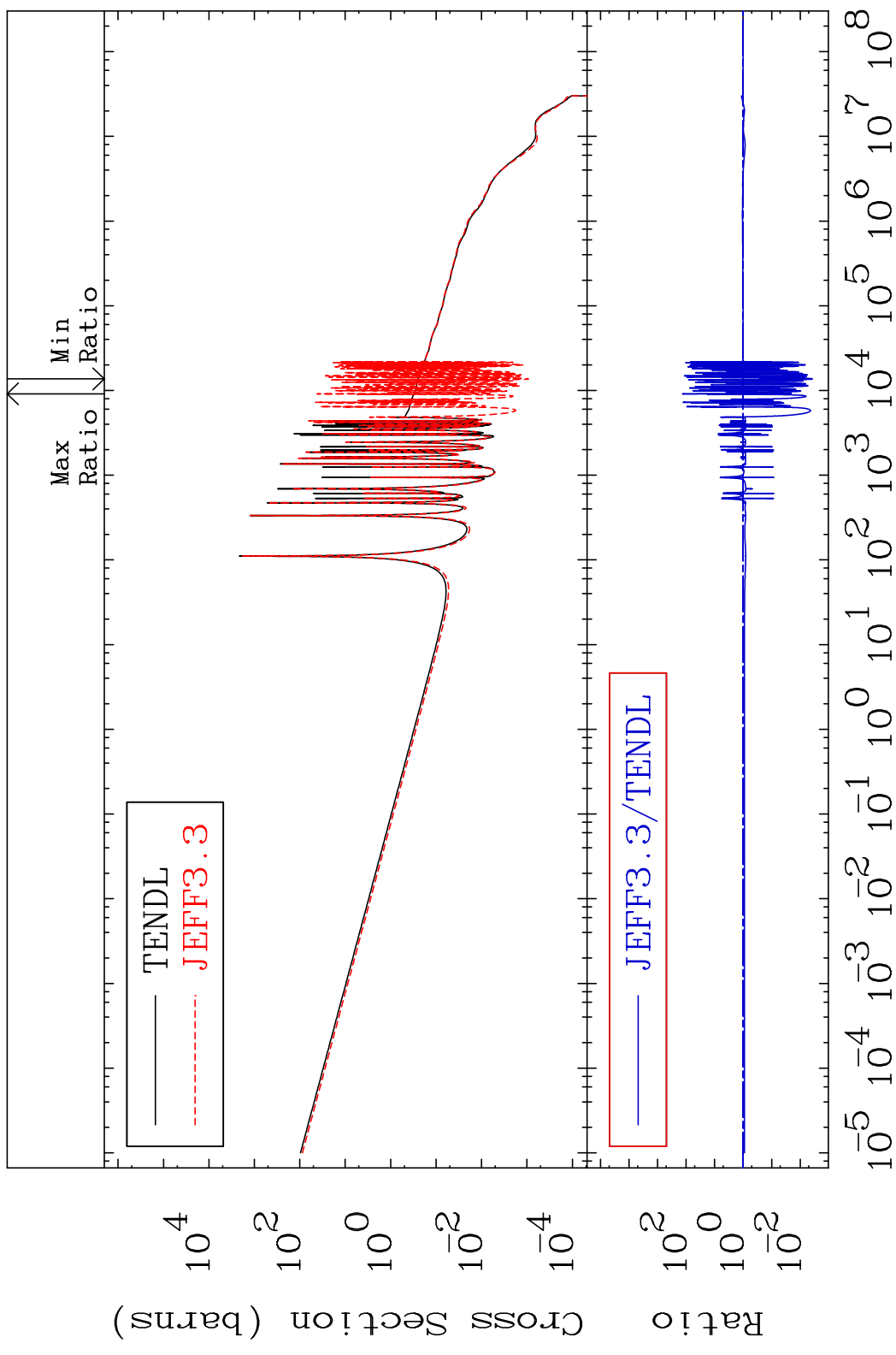
31-Ga-69

MAT 3125

(n,  $\gamma$ )

31-Ga-69

Cross Section -99.63 To 9999. %

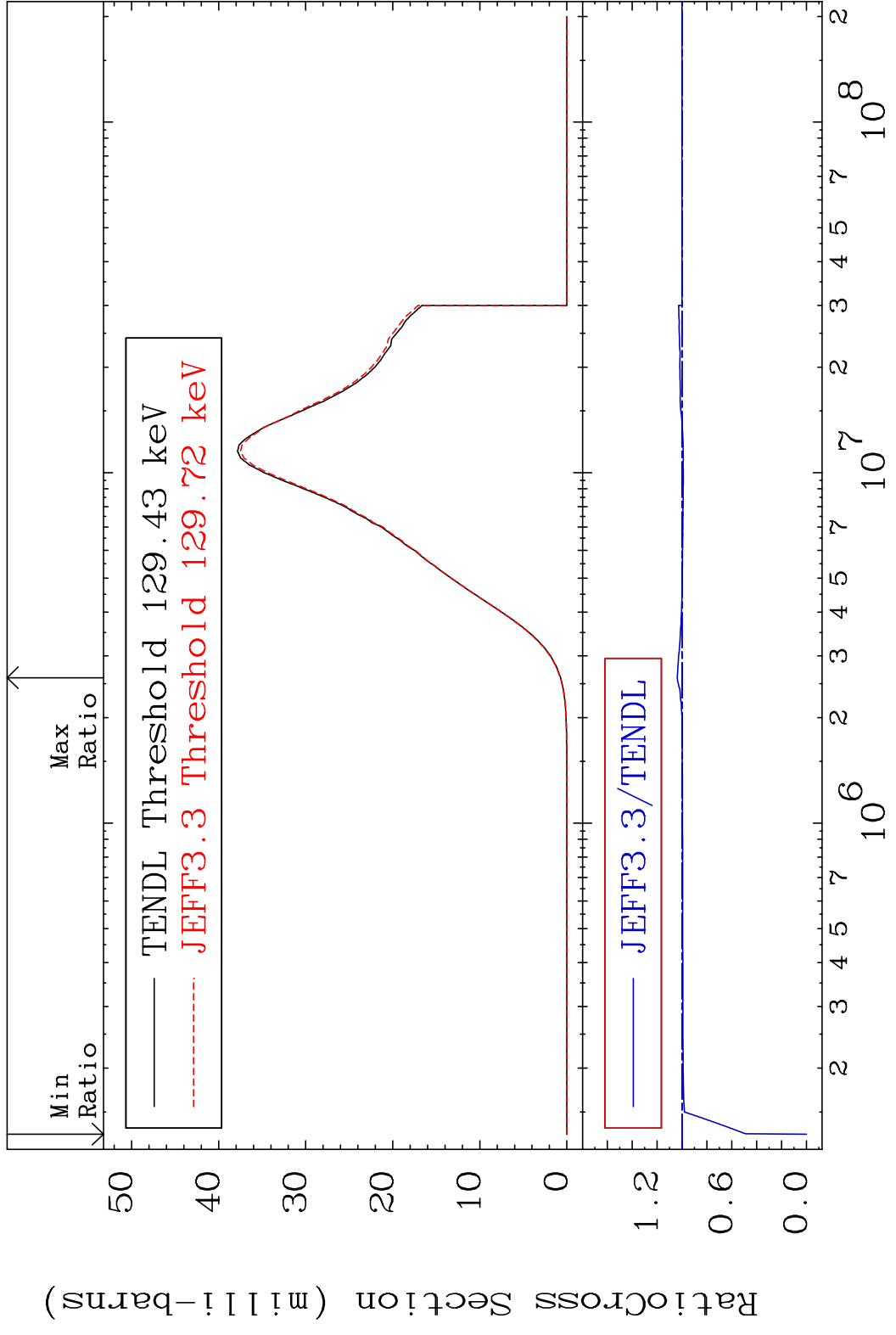


35

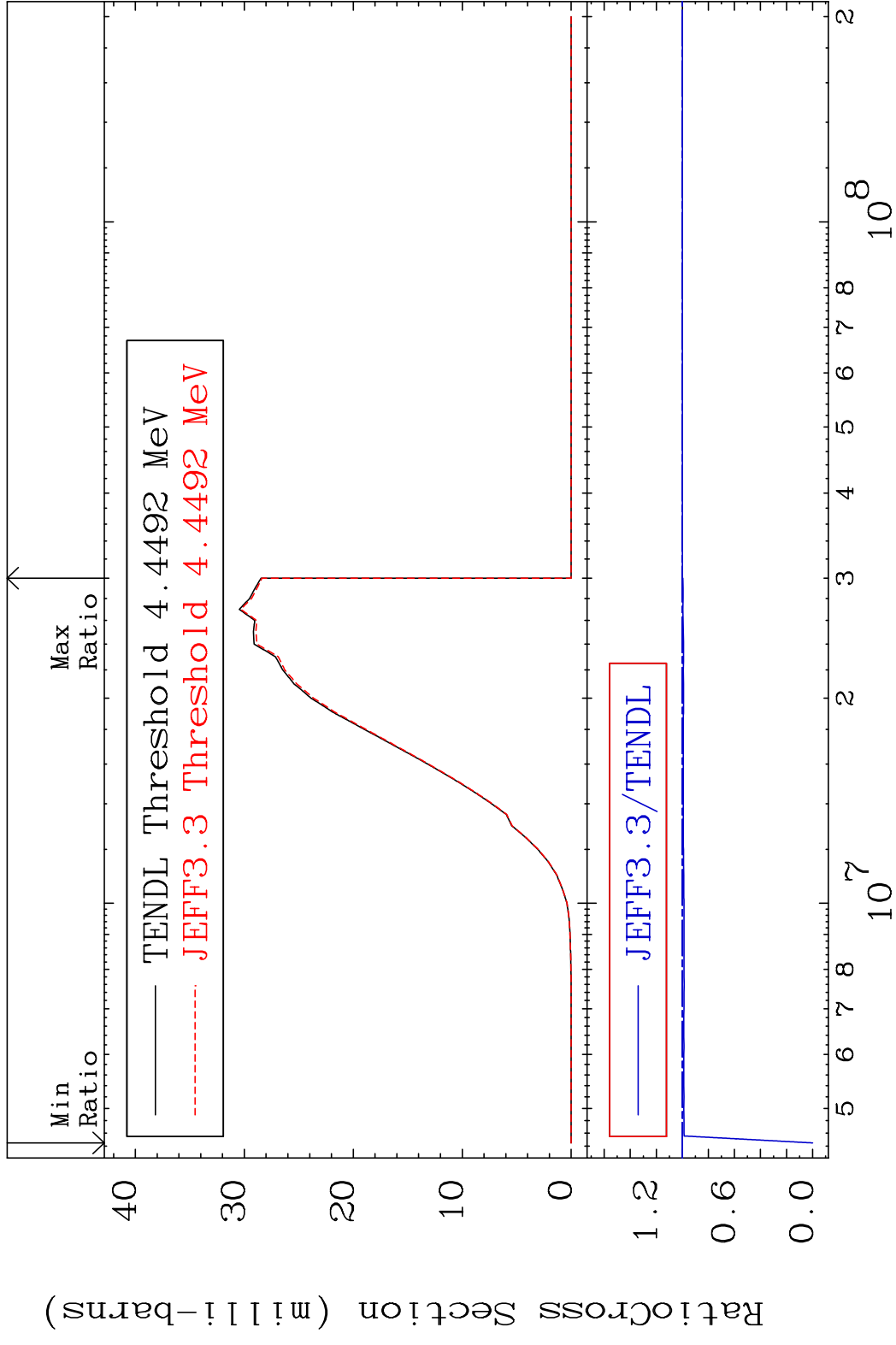
Incident Energy (eV)

31-Ga-69

MAT 3125 (n,p) 31-Ga-69  
 Cross Section -100.0 To 3.818 %



MAT 3125 (n, d) 31-Ga-69  
 Cross Section -100.0 To 0.000 %

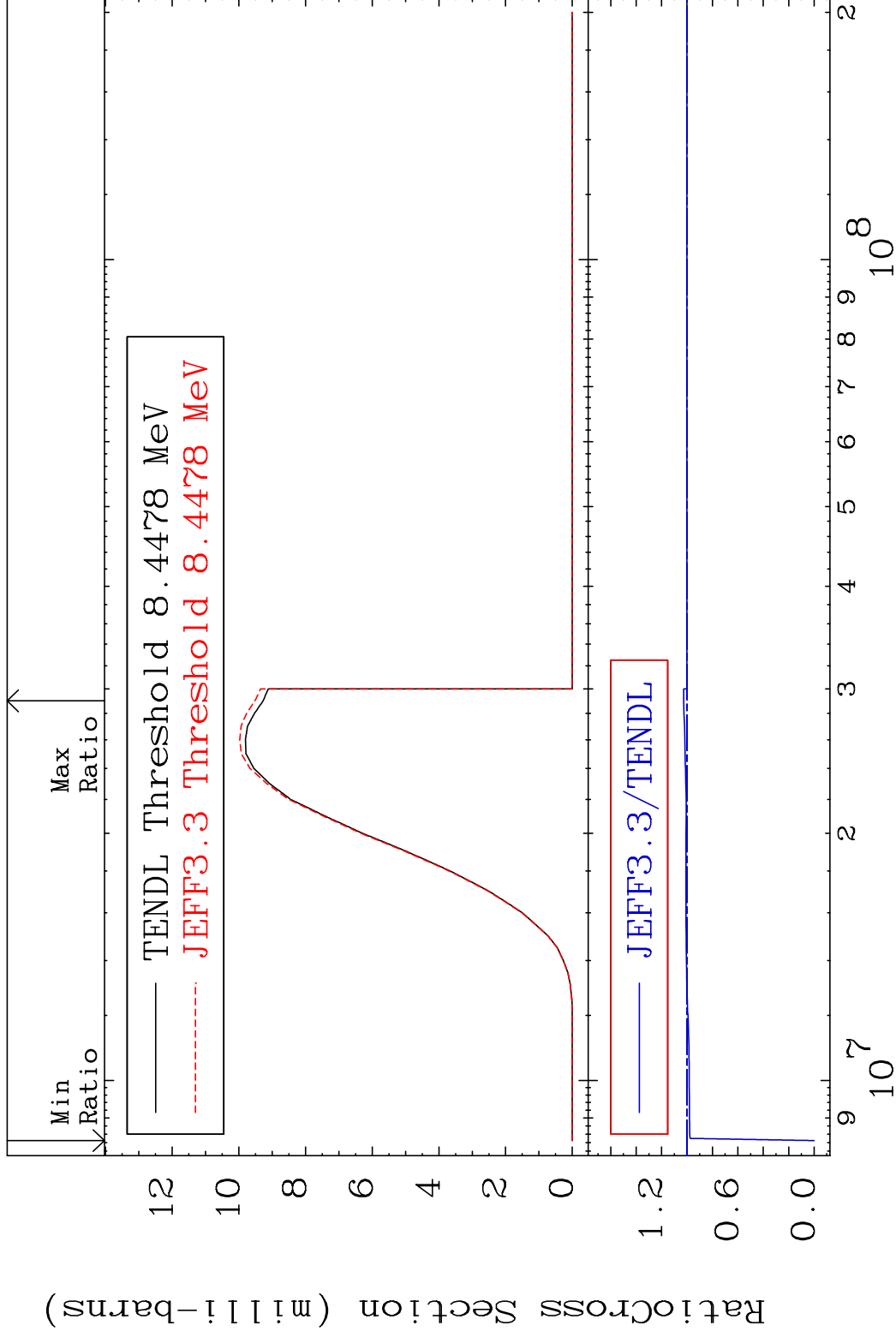


MAT 3125

(n, t)

31-Ga-69

Cross Section -100.0 To 2.632 %



38

Incident Energy (eV)

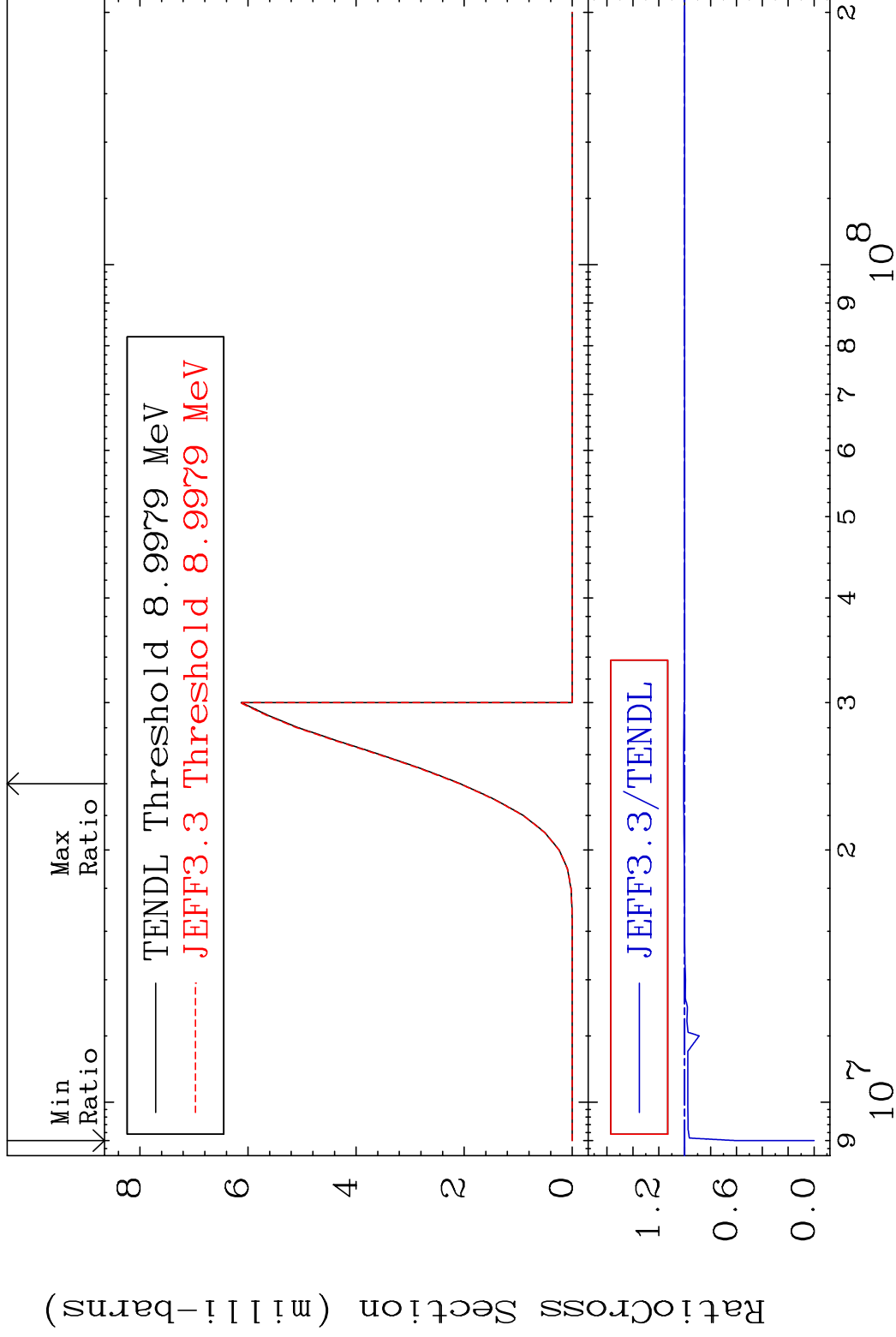
31-Ga-69

MAT 3125

(n, He-3)

31-Ga-69

Cross Section -100.0 To 0.768 %



39

Incident Energy (eV)

31-Ga-69

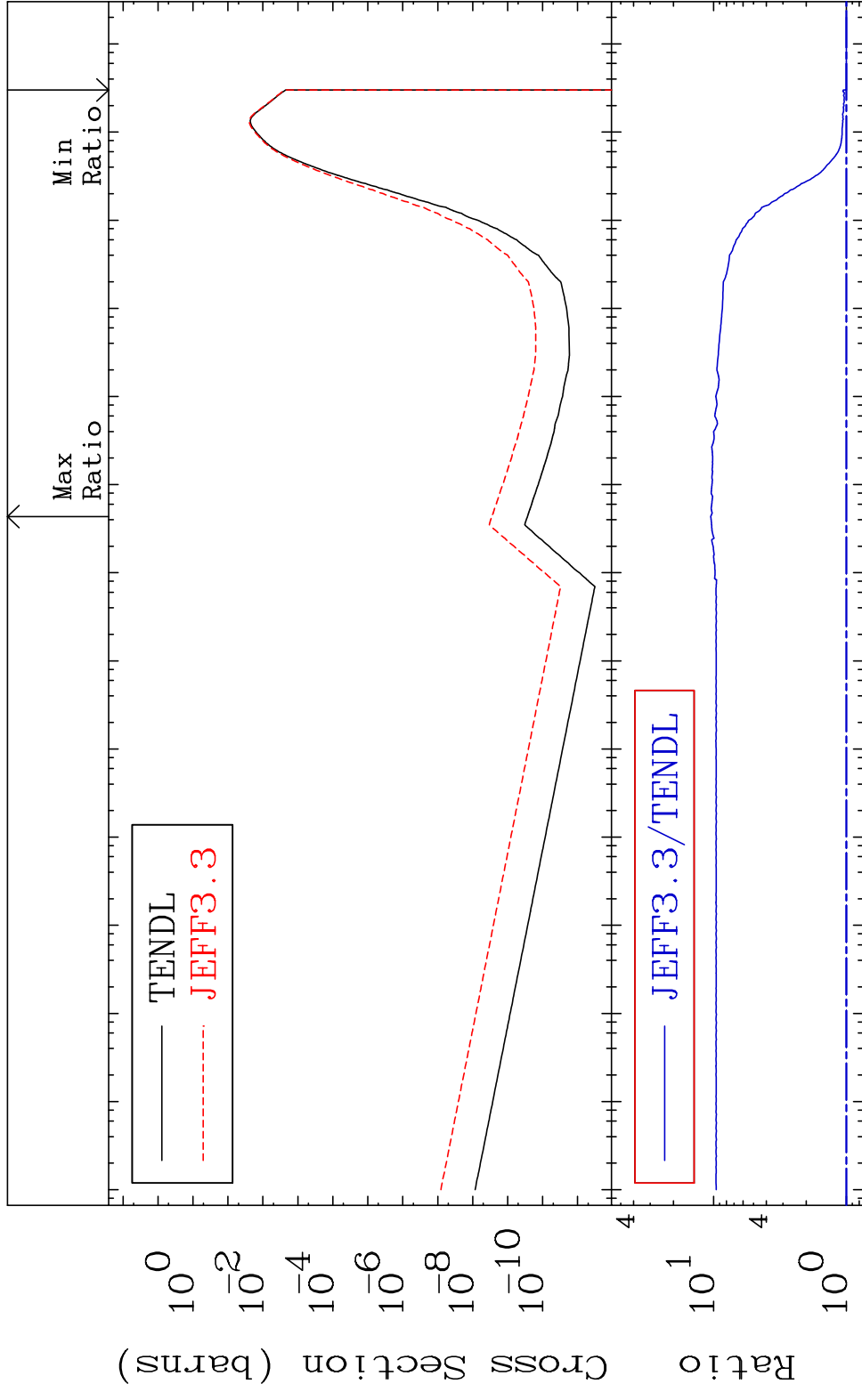


MAT 3125

31-Ga-69

(n,  $\alpha$ )

Cross Section 0.000 To 949.6 %



40

Incident Energy (eV)

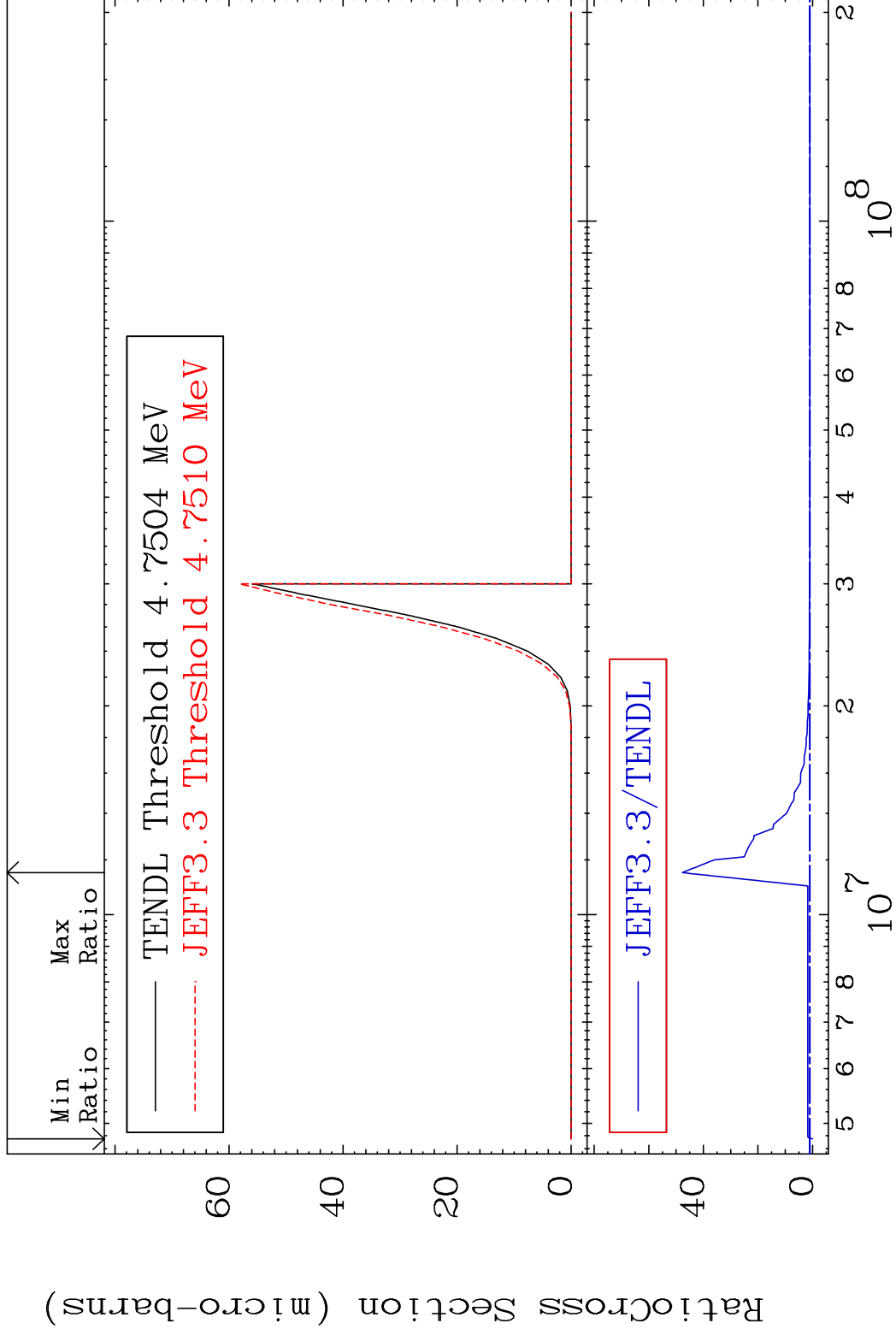
31-Ga-69

MAT 3125

(n, 2α)

31-Ga-69

Cross Section -100.0 To 4670. %



41

Incident Energy (eV)

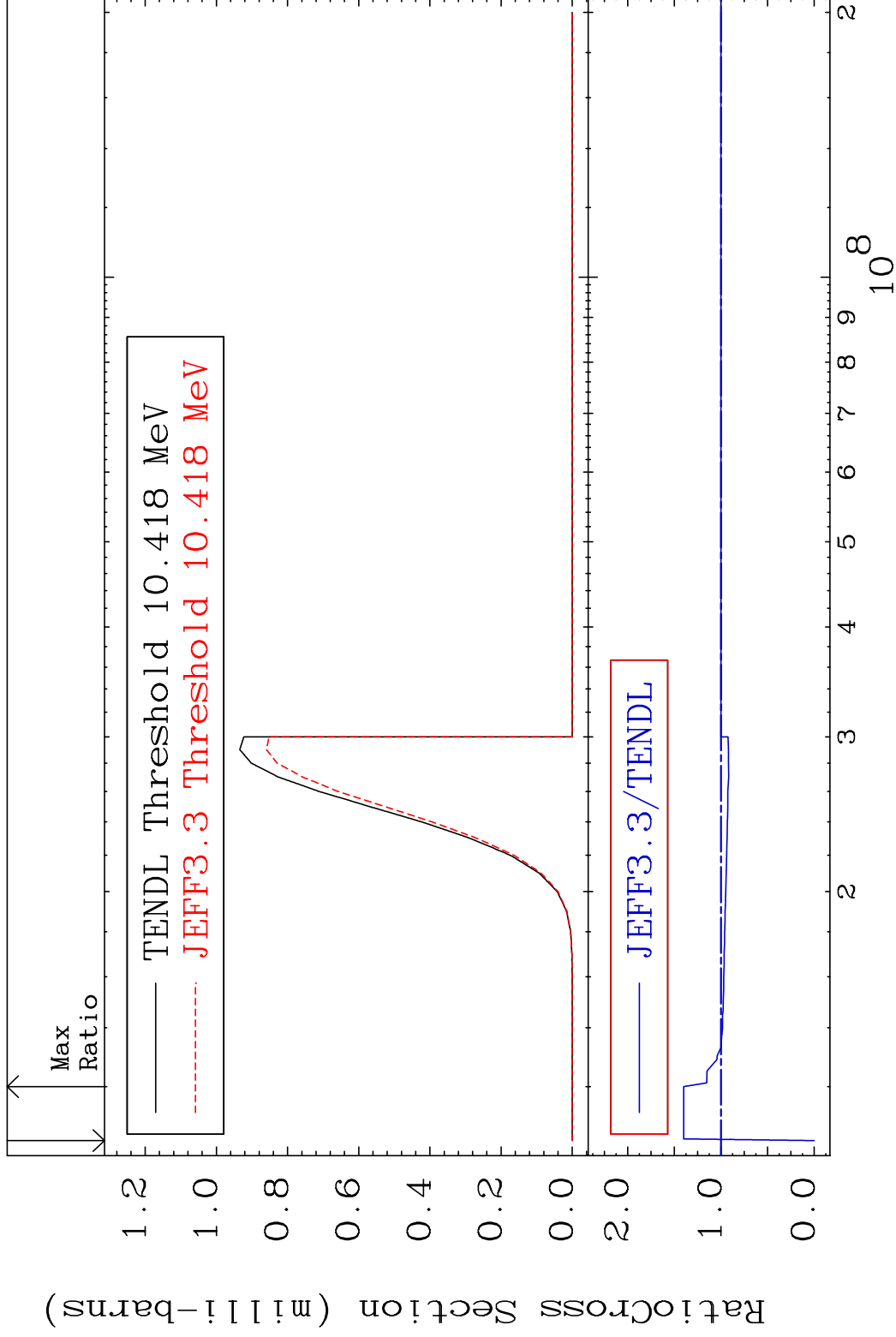
31-Ga-69

MAT 3125

(n,2p)

31-Ga-69

Cross Section -100.0 To 39.92 %



42

Incident Energy (eV)

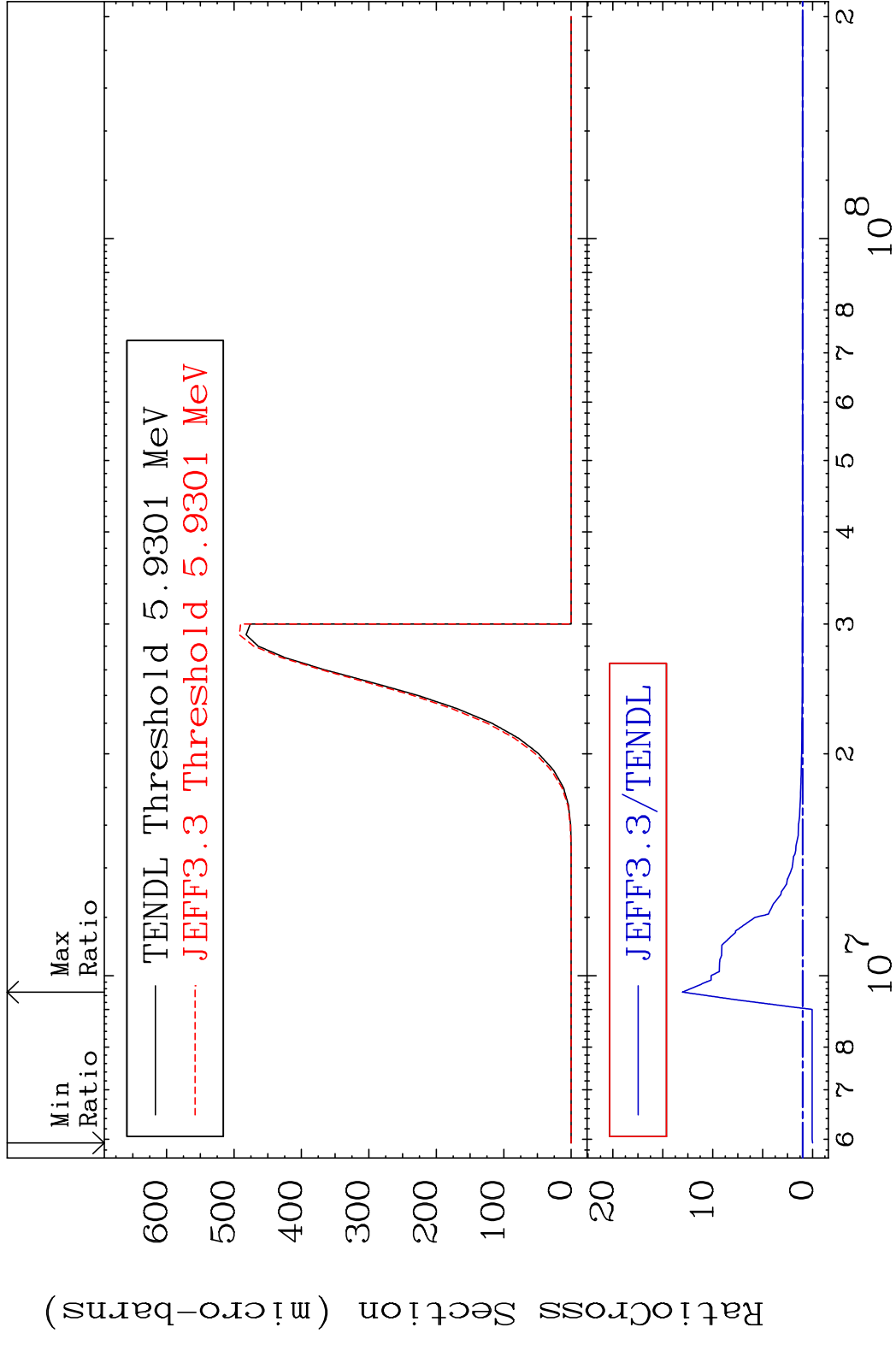
31-Ga-69

MAT 3125

(n,p)  $\alpha$

31-Ga-69

Cross Section -100.0 To 1204. %

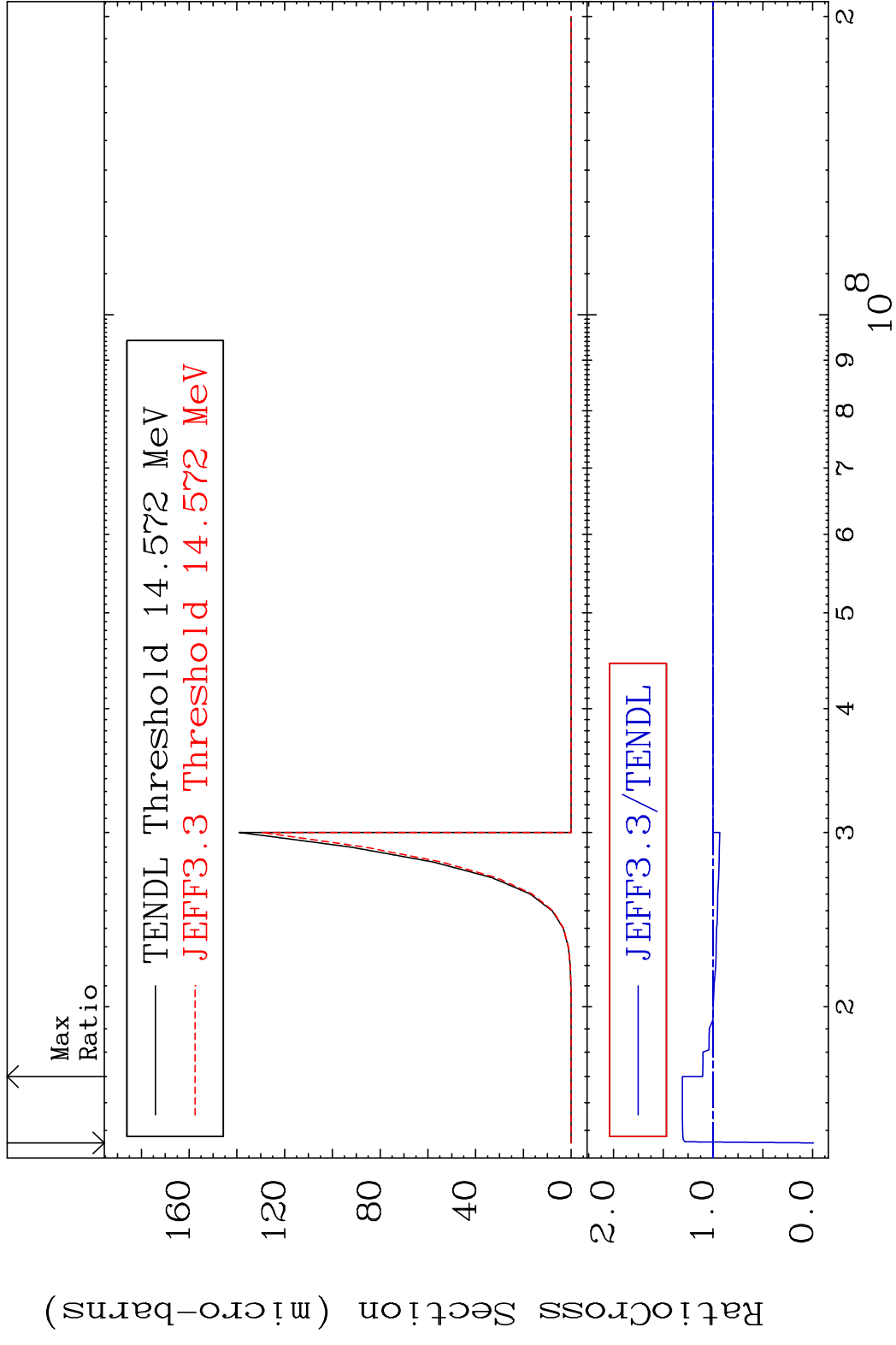


43

Incident Energy (eV)

31-Ga-69

MAT 3125 (n,p) d 31-Ga-69  
 Cross Section -100.0 To 30.86 %

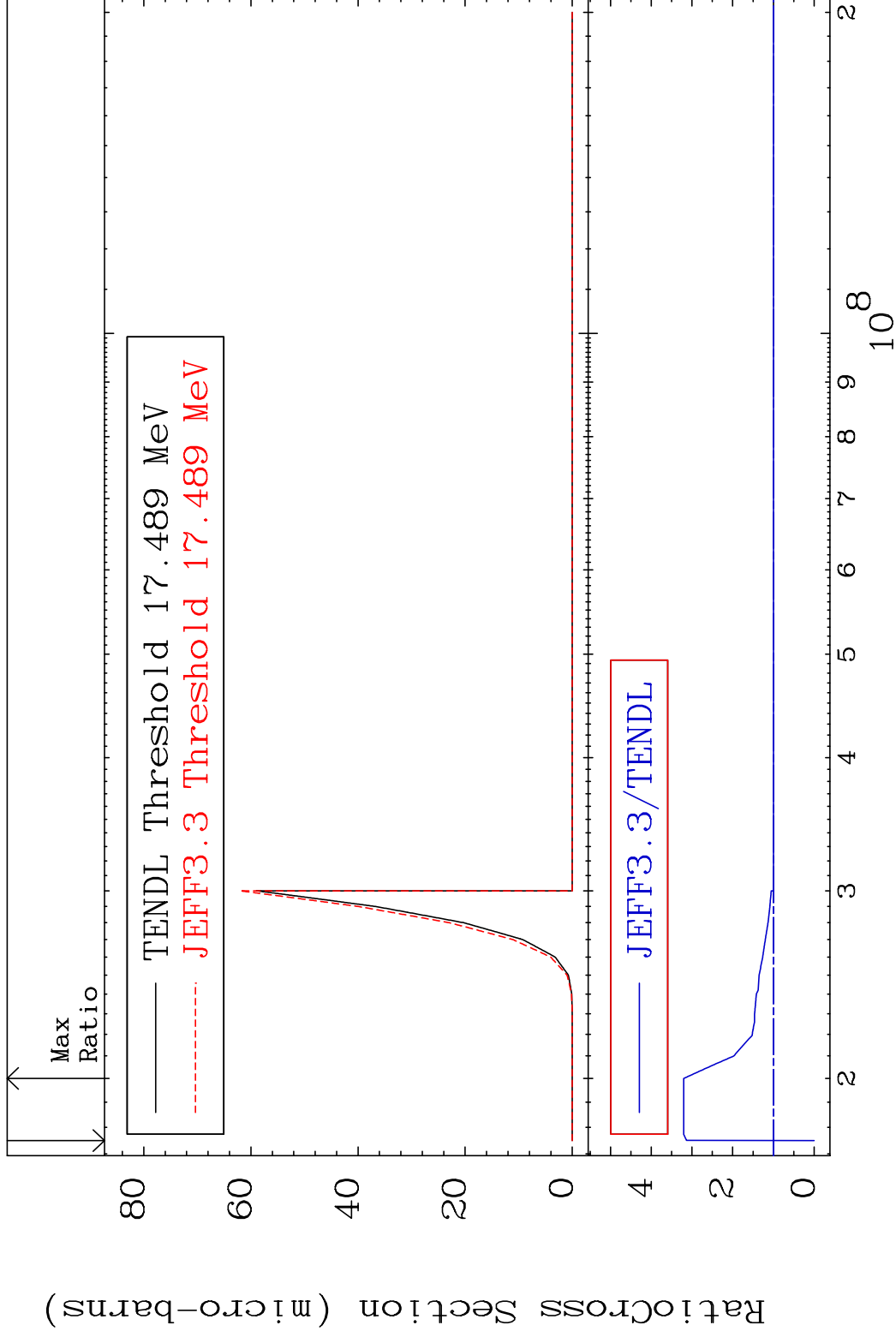


MAT 3125

(n,p) t

31-Ga-69

Cross Section -100.0 To 220.4 %

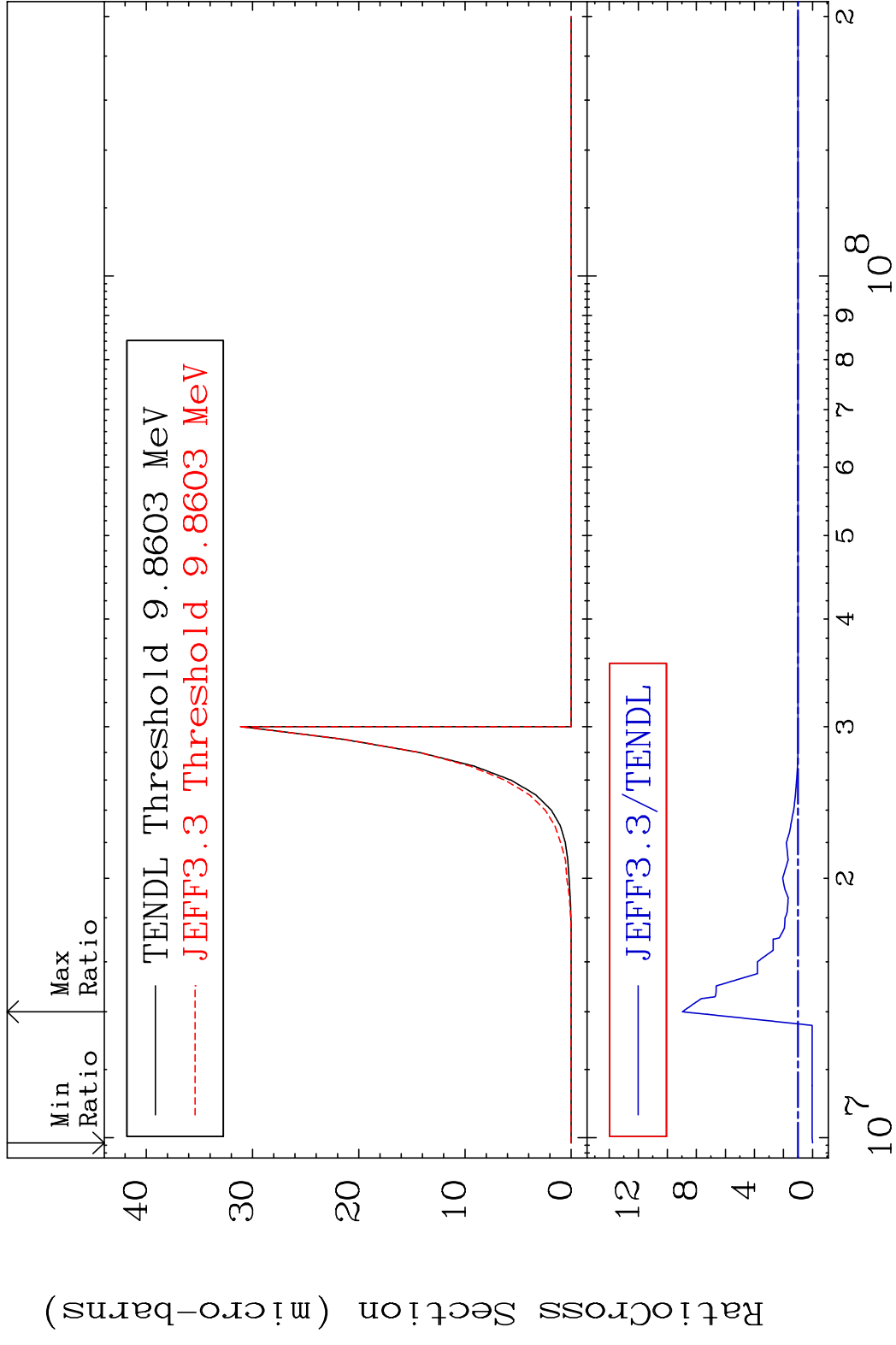


45

Incident Energy (eV)

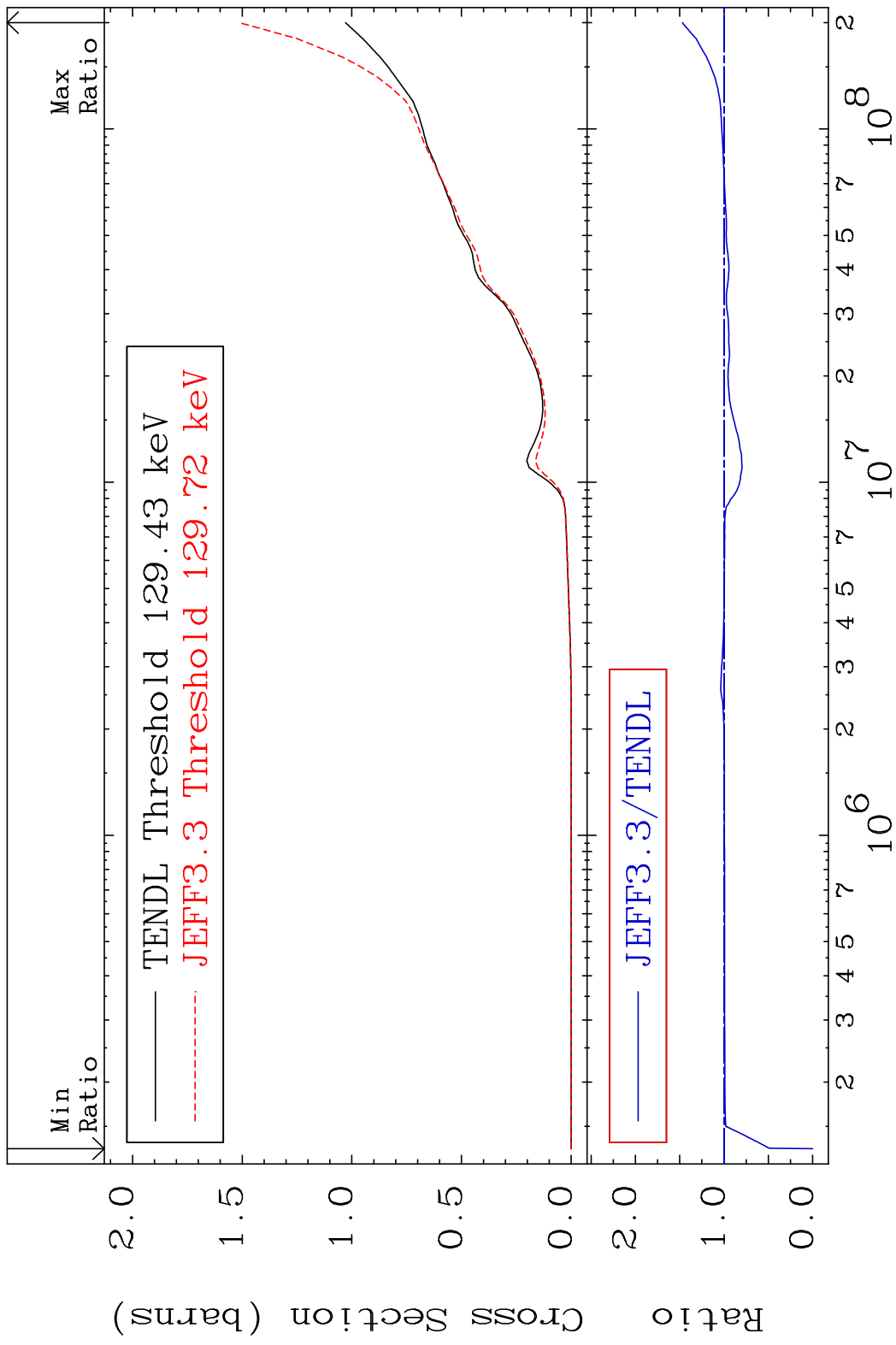
31-Ga-69

MAT 3125 (n,d)  $\alpha$  31-Ga-69  
 Cross Section -100.0 To 796.7 %



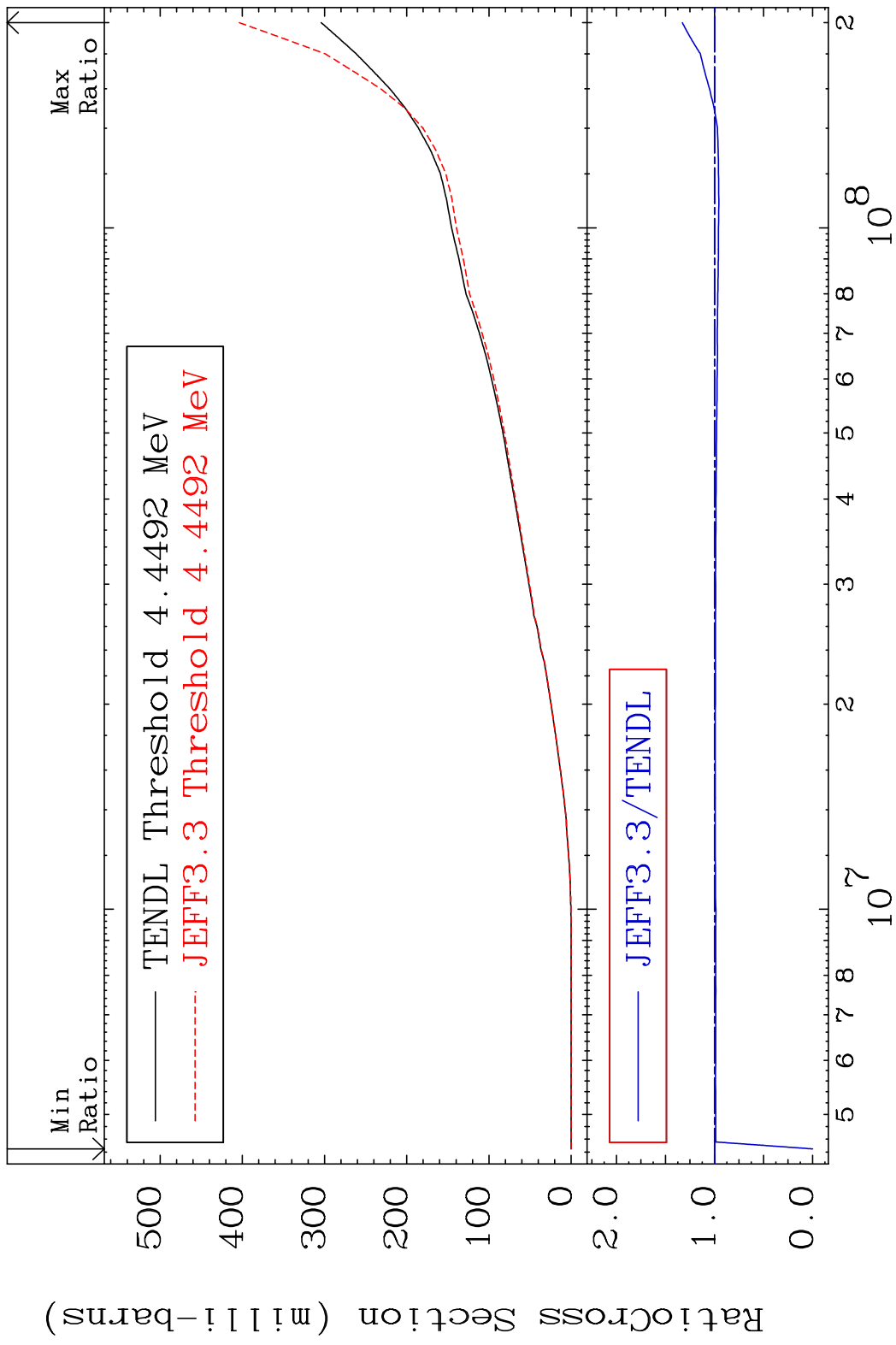
46 Incident Energy (eV) 31-Ga-69

MAT 3125 Hydrogen Production 31-Ga-69  
 Cross Section -100.0 To 47.06 %

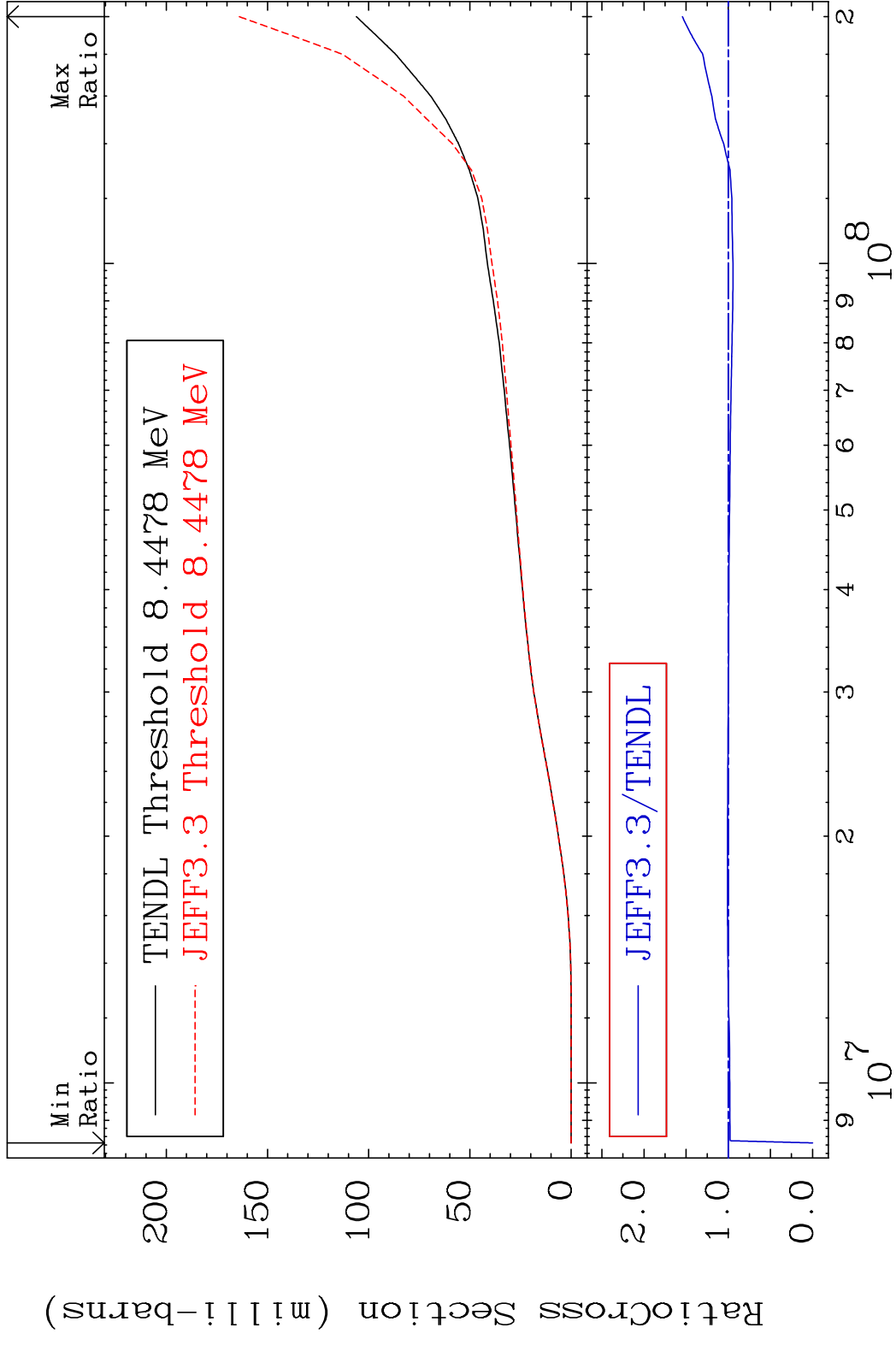




MAT 3125 Deuterium Production 31-Ga-69  
 Cross Section -100.0 To 32.79 %



MAT 3125 Tritium Production 31-Ga-69  
 Cross Section -100.0 To 54.50 %

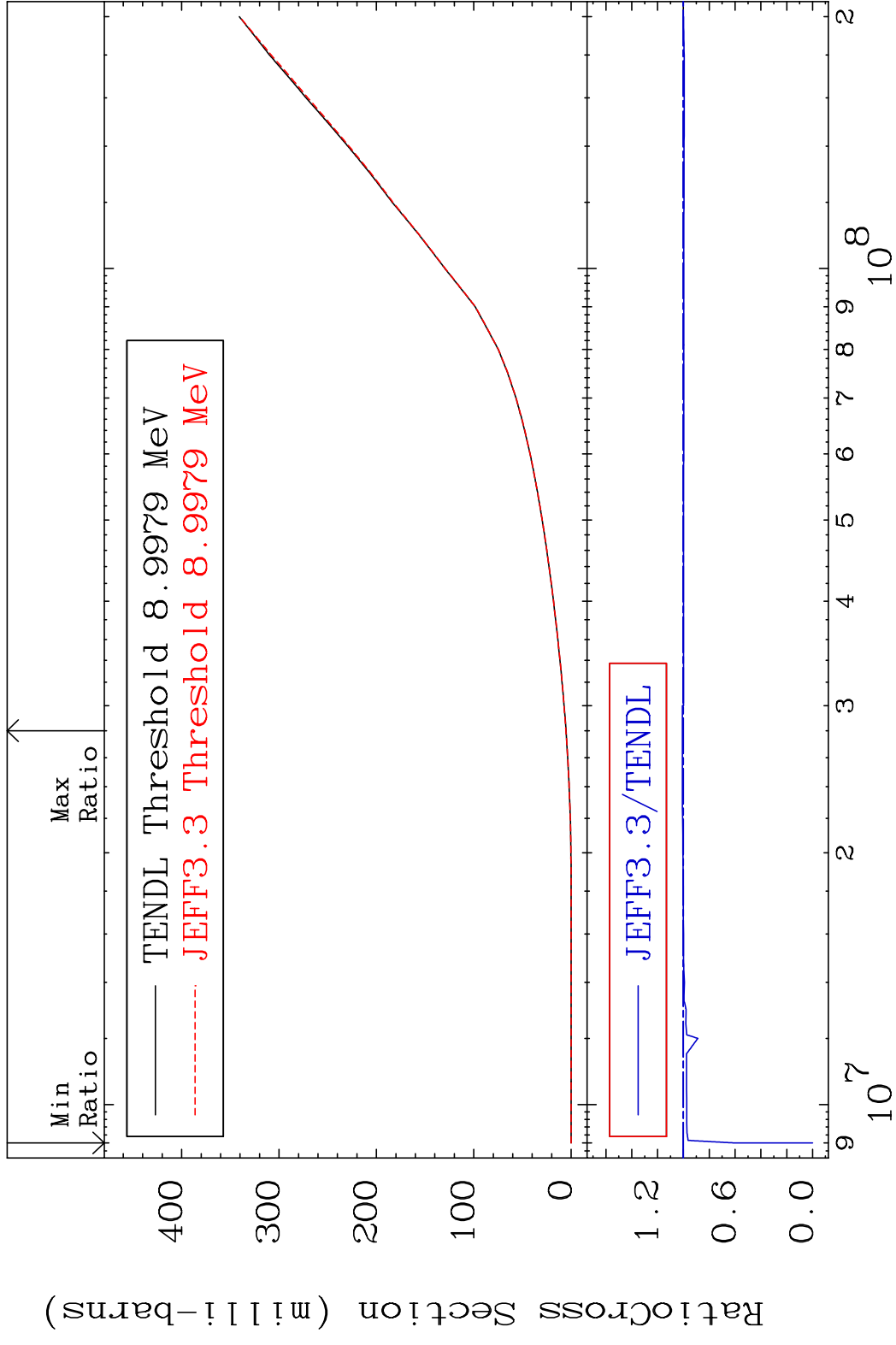


MAT 3125

He-3 Production

31-Ga-69

Cross Section -100.0 To 0.808 %



50

Incident Energy (eV)

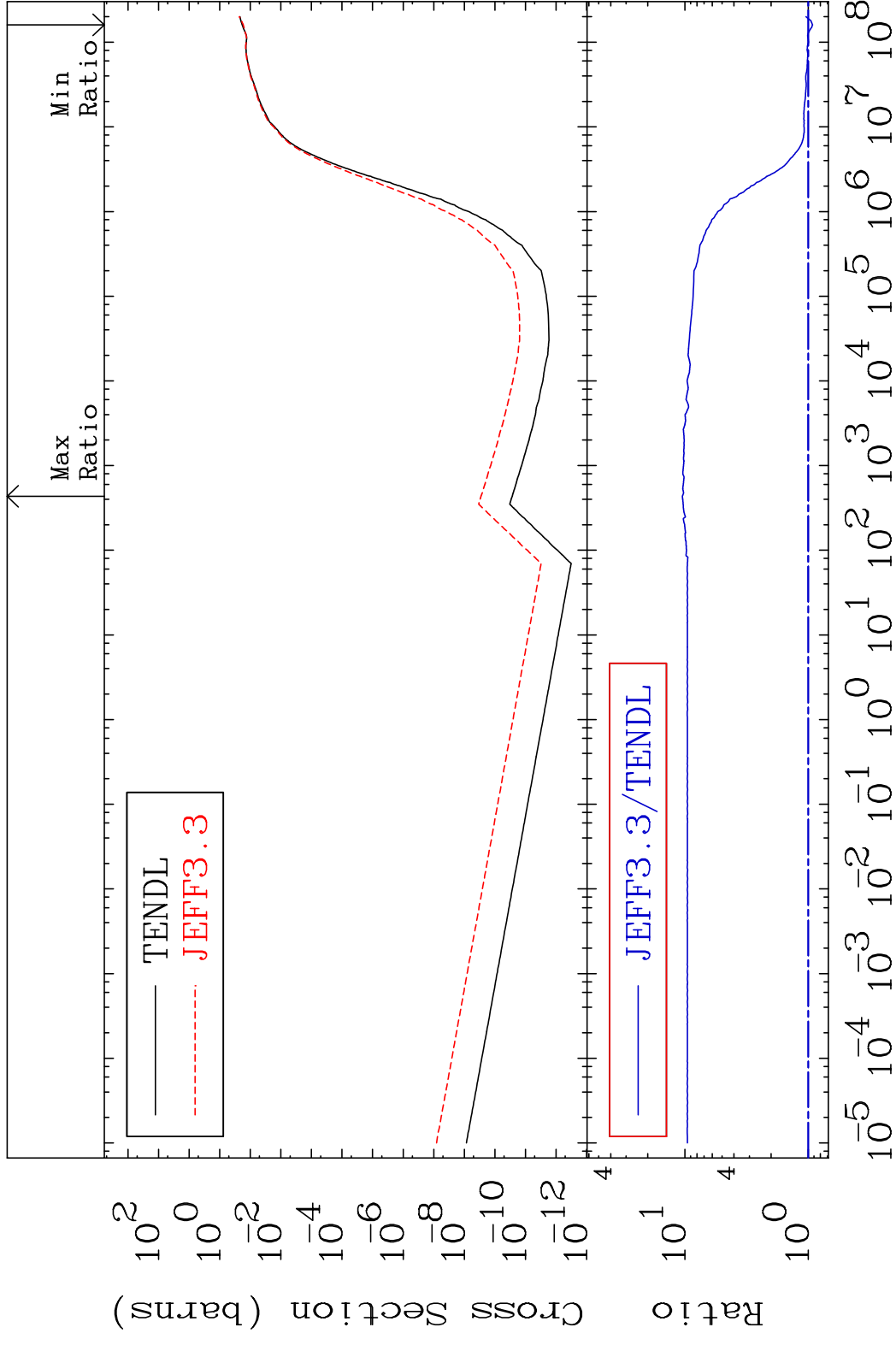
31-Ga-69

MAT 3125

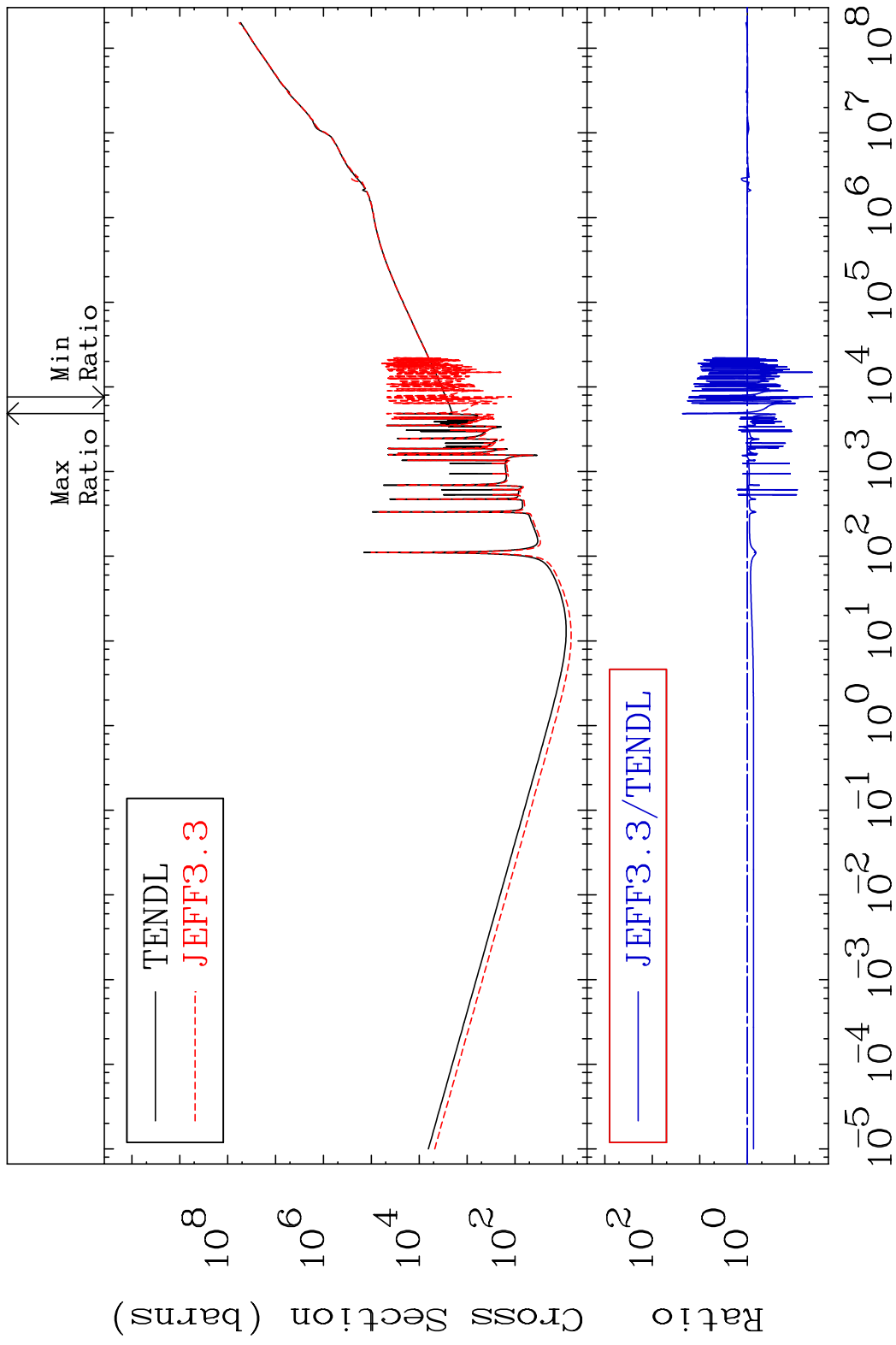
He-4 Production

31-Ga-69

Cross Section -7.612 To 949.6 %

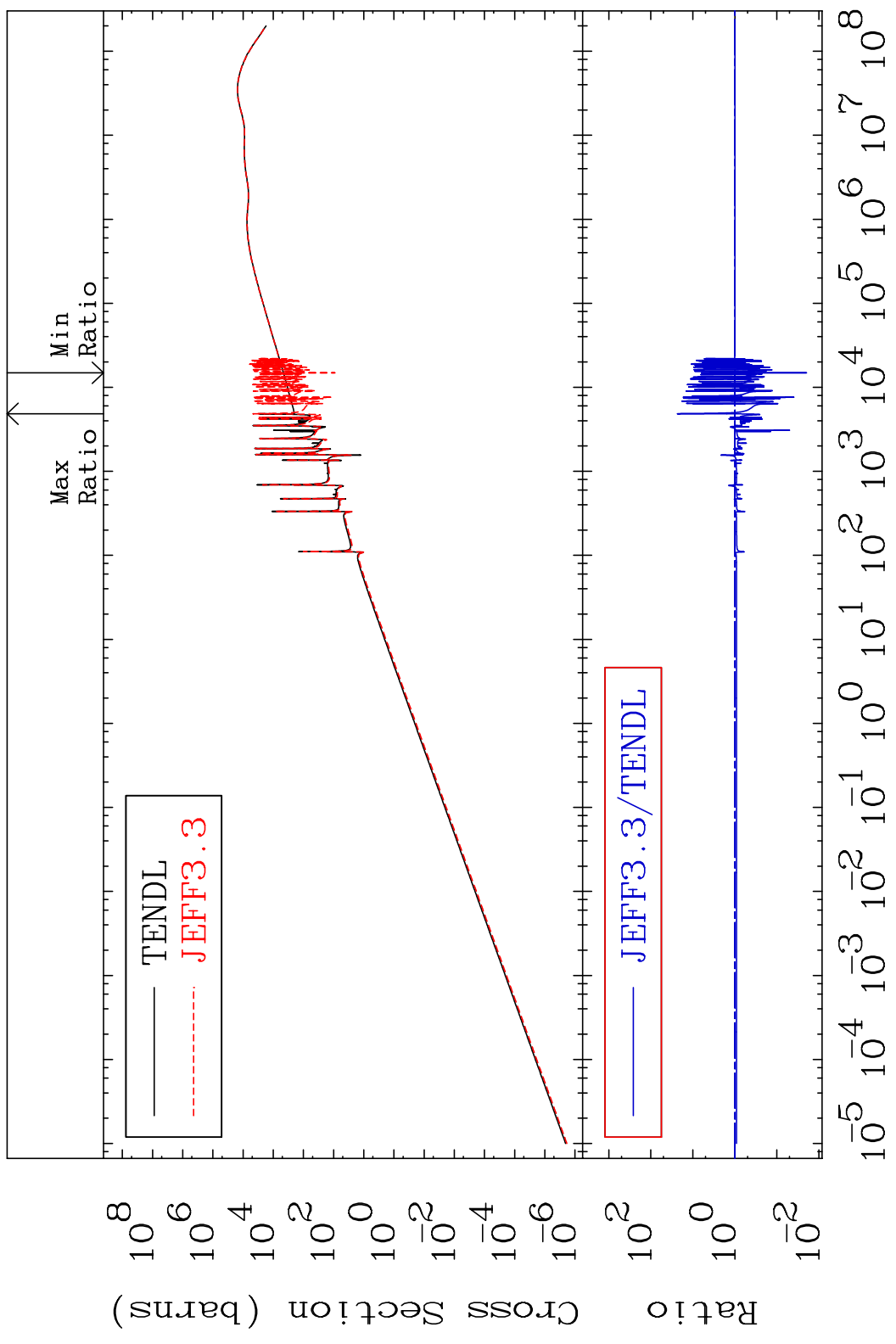


MAT 3125 Kerma total (eV-barns) 31-Ga-69  
 Cross Section -95.76 To 2231. %



MAT 3125

Kerma elastic Cross Section -98.02 To 2260. %  
31-Ga-69

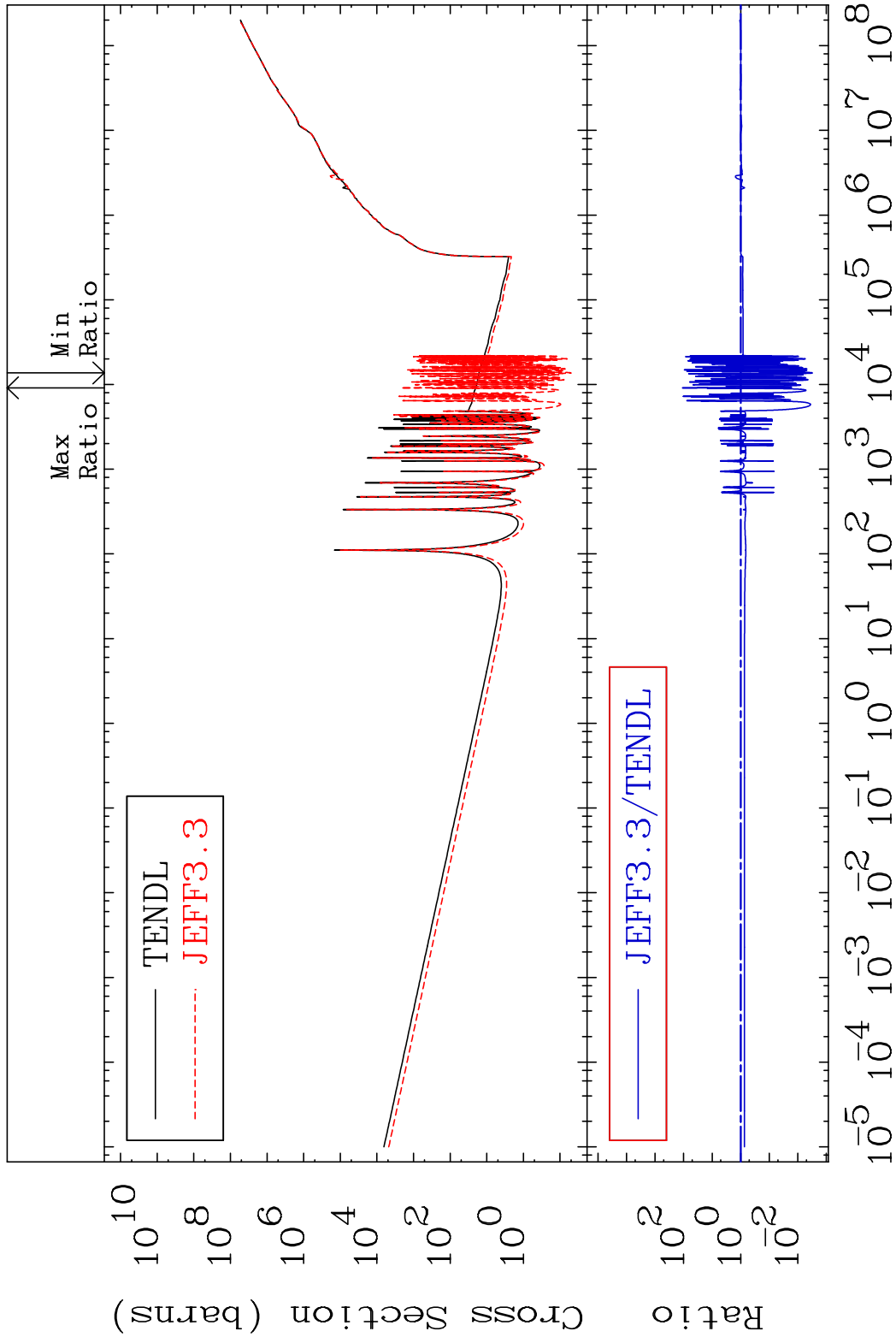


53

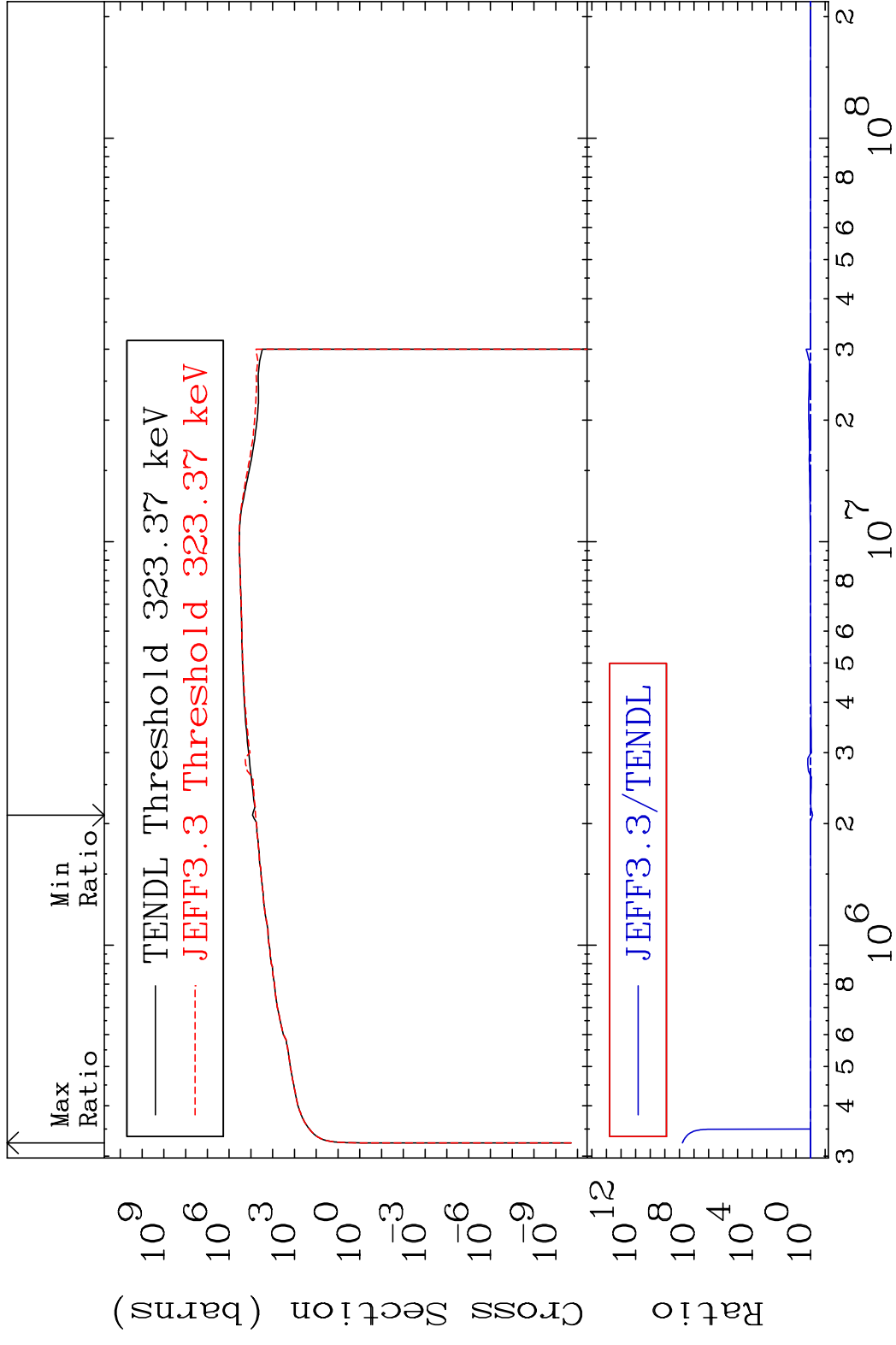
Incident Energy (eV)

31-Ga-69

MAT 3125 Kerma non-elastic (all but mt2) 31-Ga-69  
 Cross Section -99.70 To 9999. %

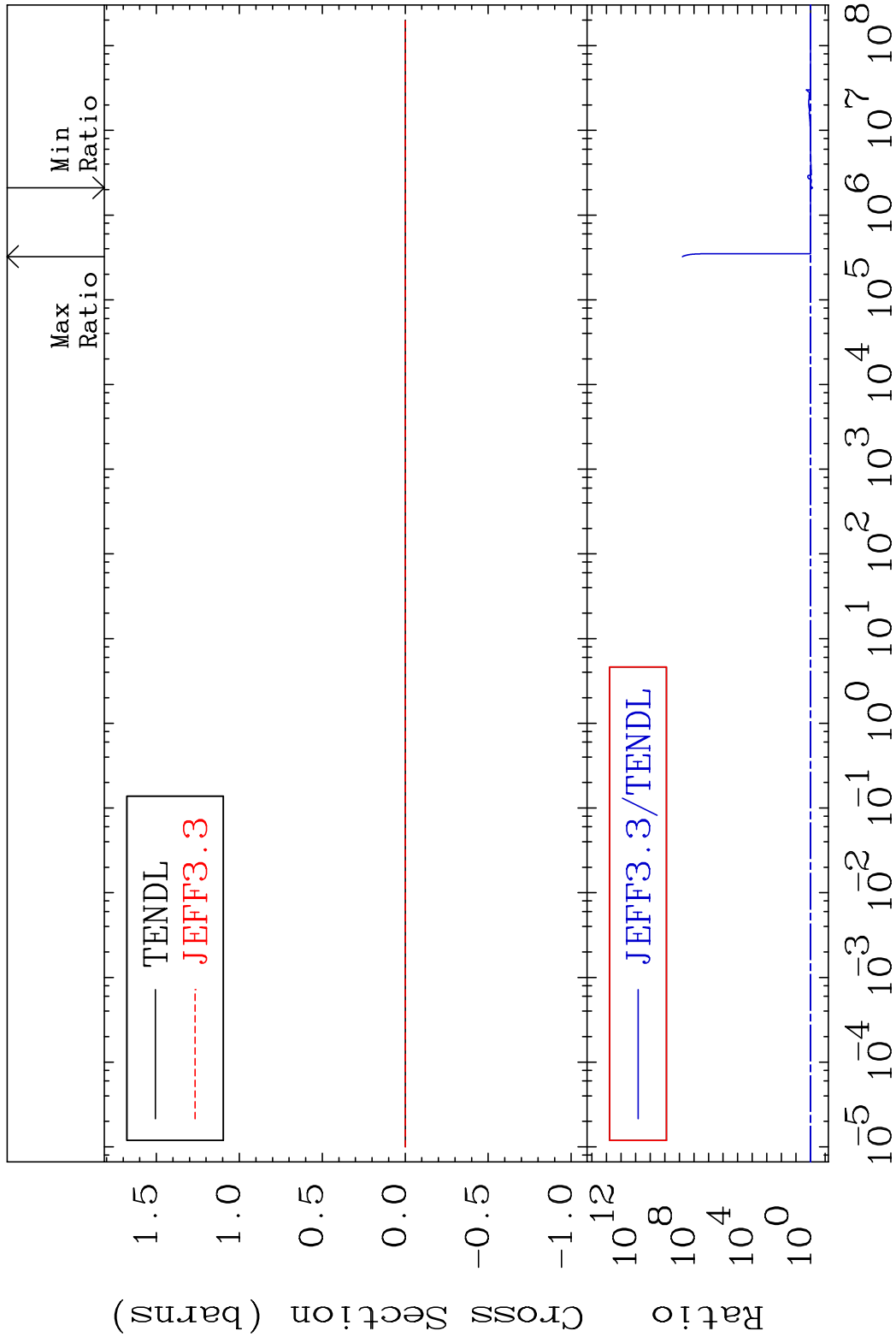


MAT 3125 Kerma inelastic (mt51-91) 31-Ga-69  
 Cross Section -27.57 To 9999. %





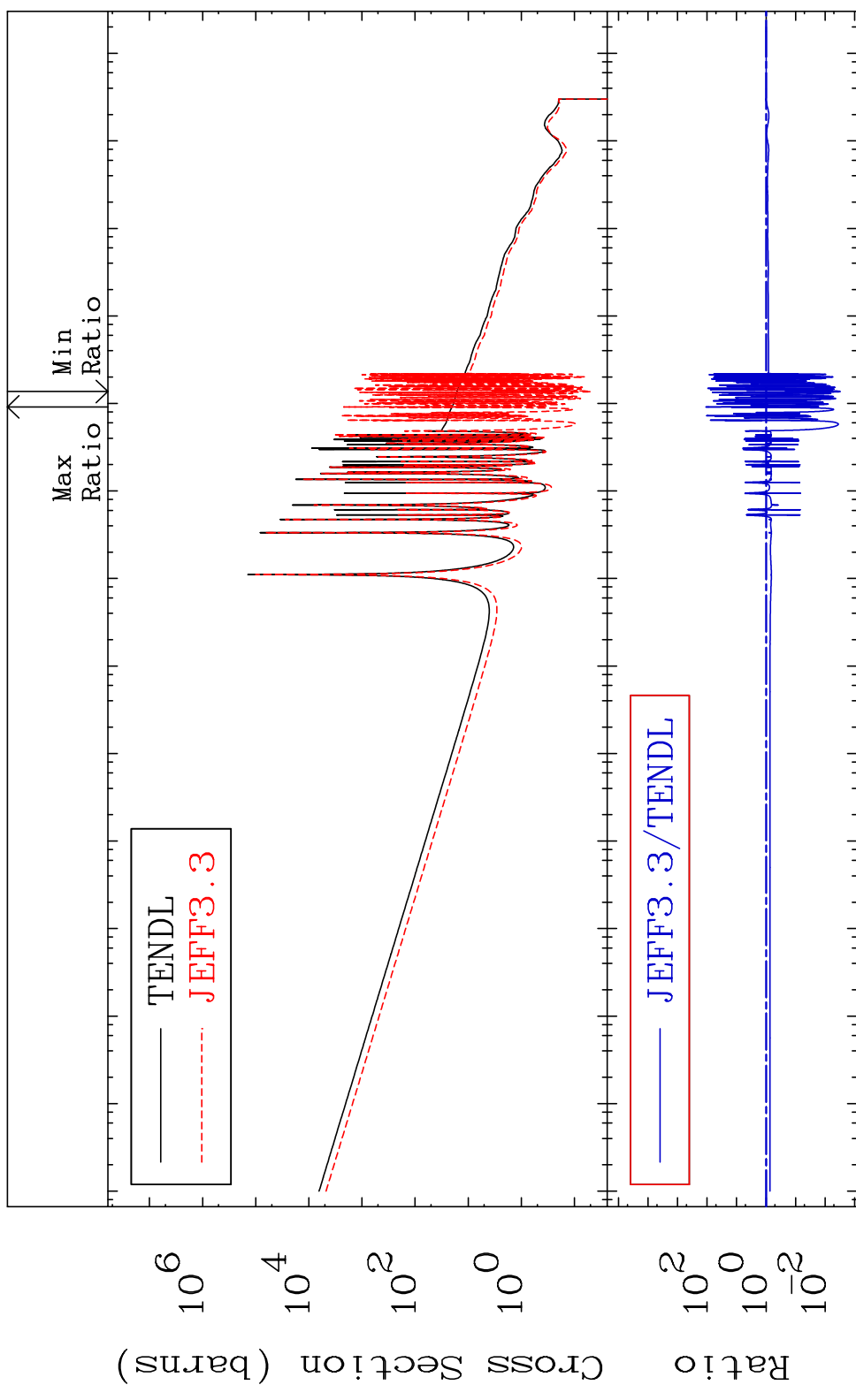
MAT 3125 Kerma fission (mt18 or mt19-20-21-38) 31-Ga-69  
 Cross Section -27.57 To 9999. %



MAT 3125

Kerma capture (mt102) 31-Ga-69

Cross Section -99.70 To 9999. %

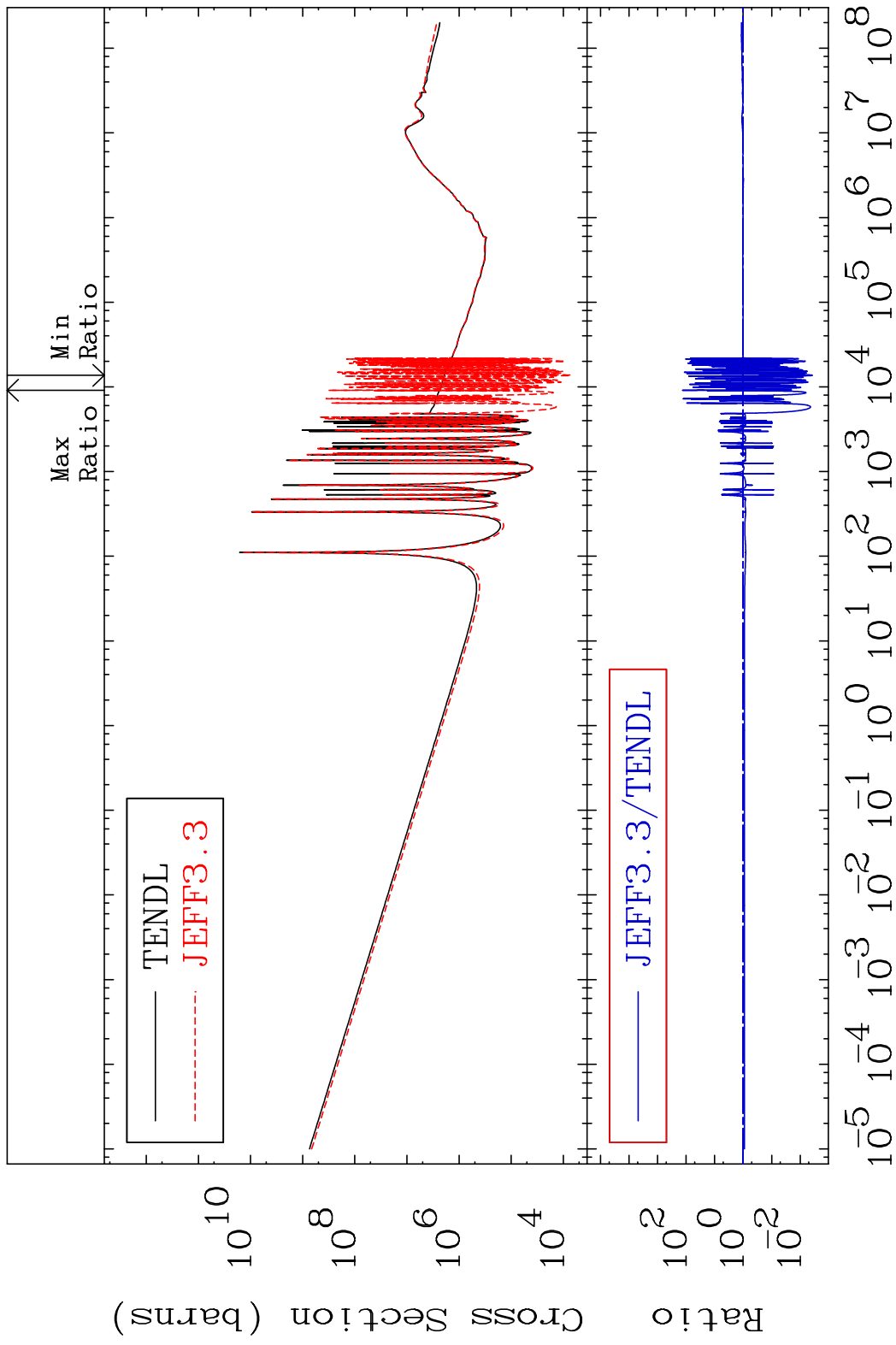


57

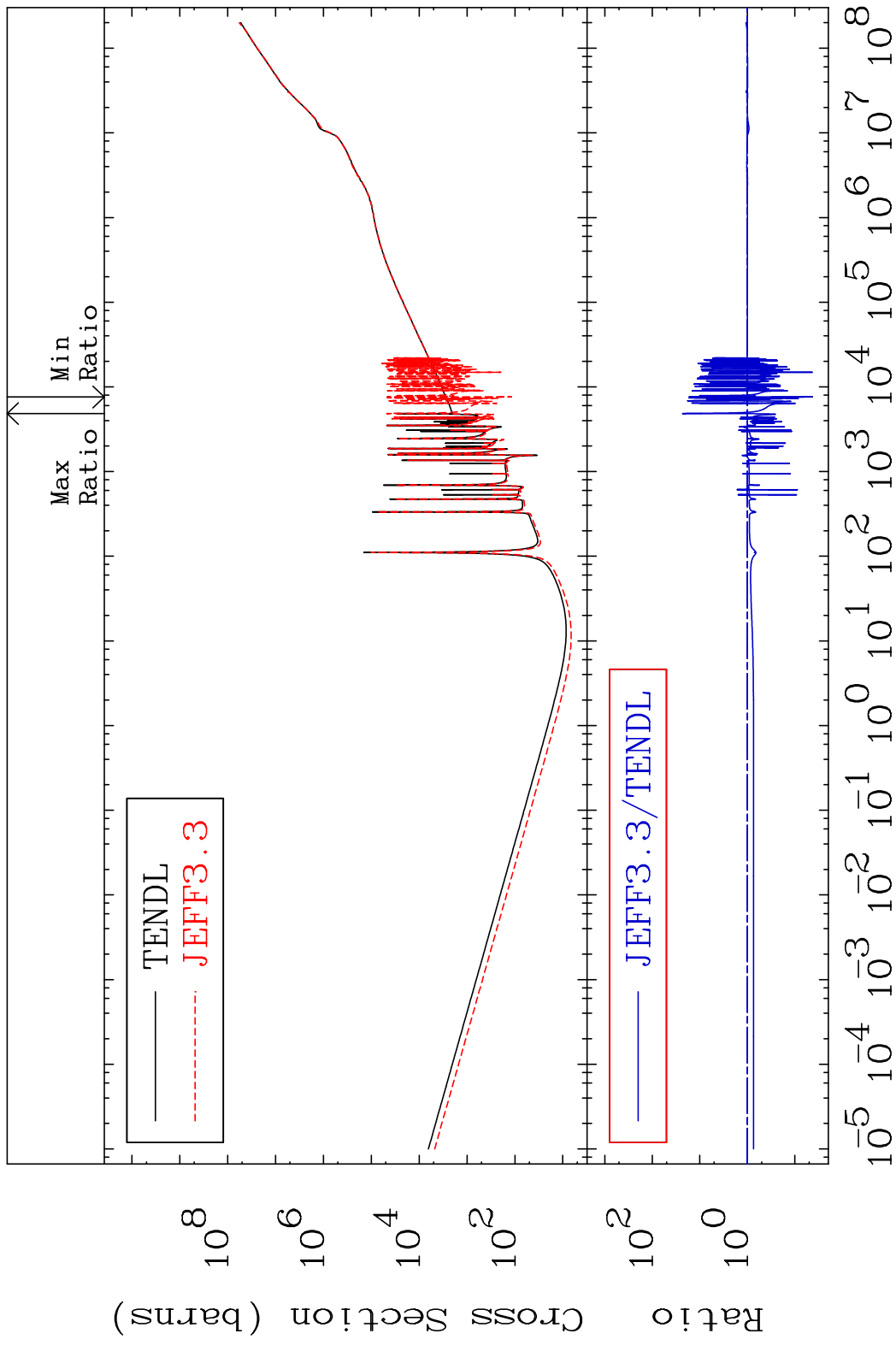
Incident Energy (eV)

31-Ga-69

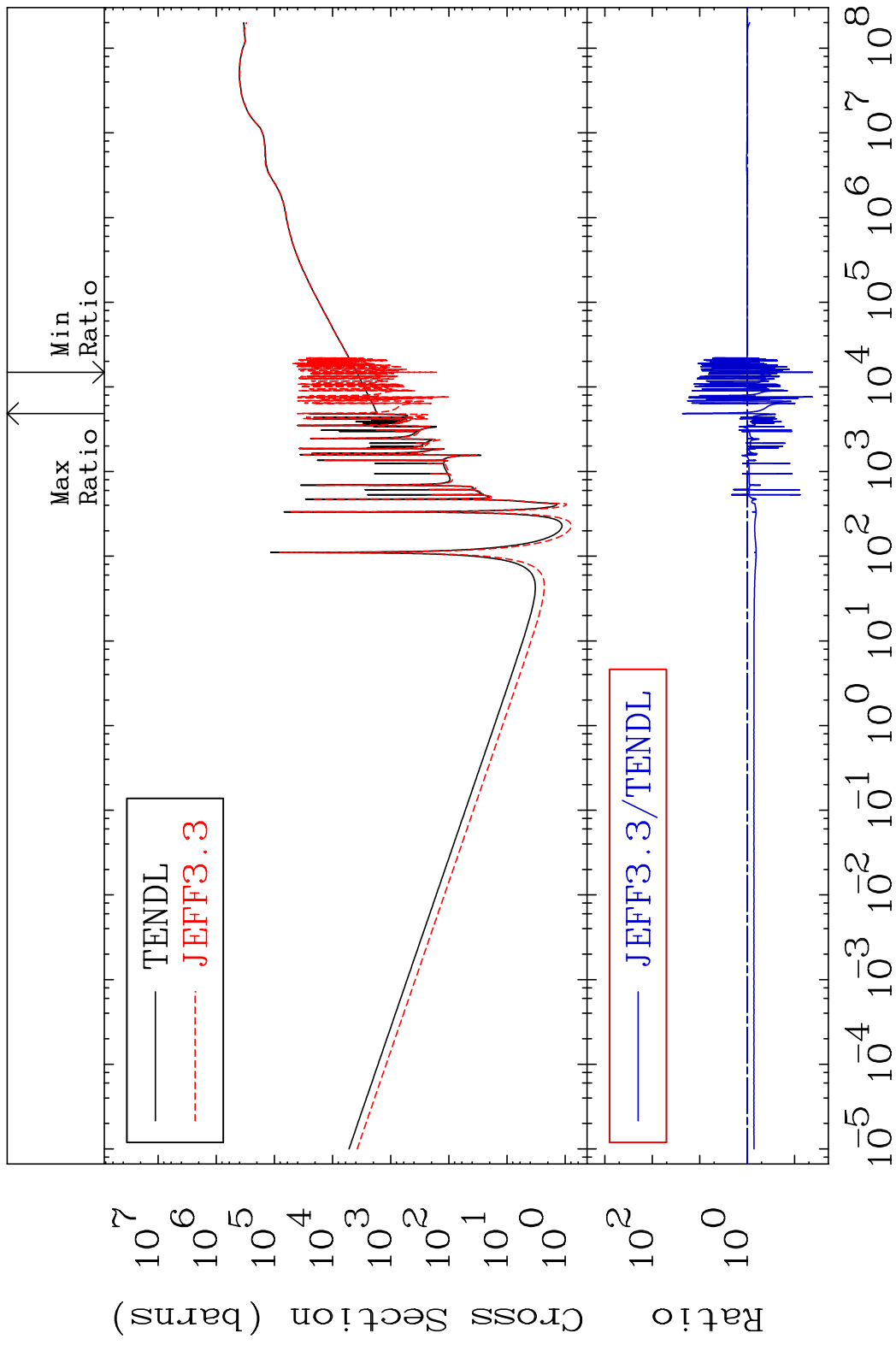
MAT 3125 Total photon (eV-barns) 31-Ga-69  
 Cross Section -99.63 To 9999. %



MAT 3125 Total kinematic kerma (high limit) 31-Ga-69  
 Cross Section -95.76 To 2231. %



MAT 3125      Dpa total (eV-barns)      31-Ga-69  
 Cross Section      -95.80 To 2232. %



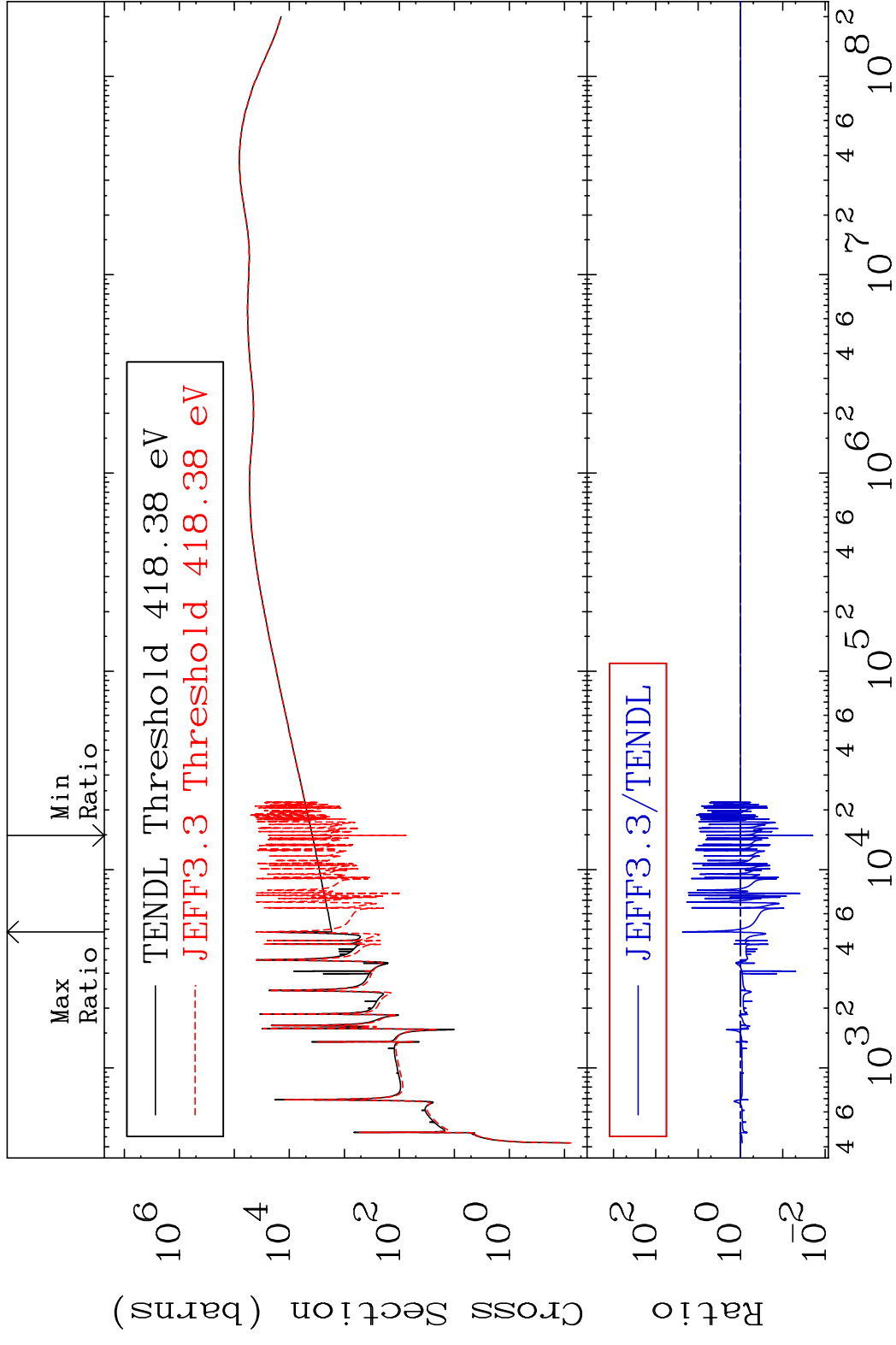
60      Incident Energy (eV)      31-Ga-69

MAT 3125

Dpa elastic (mt2)

31-Ga-69

Cross Section -98.02 To 2260. %

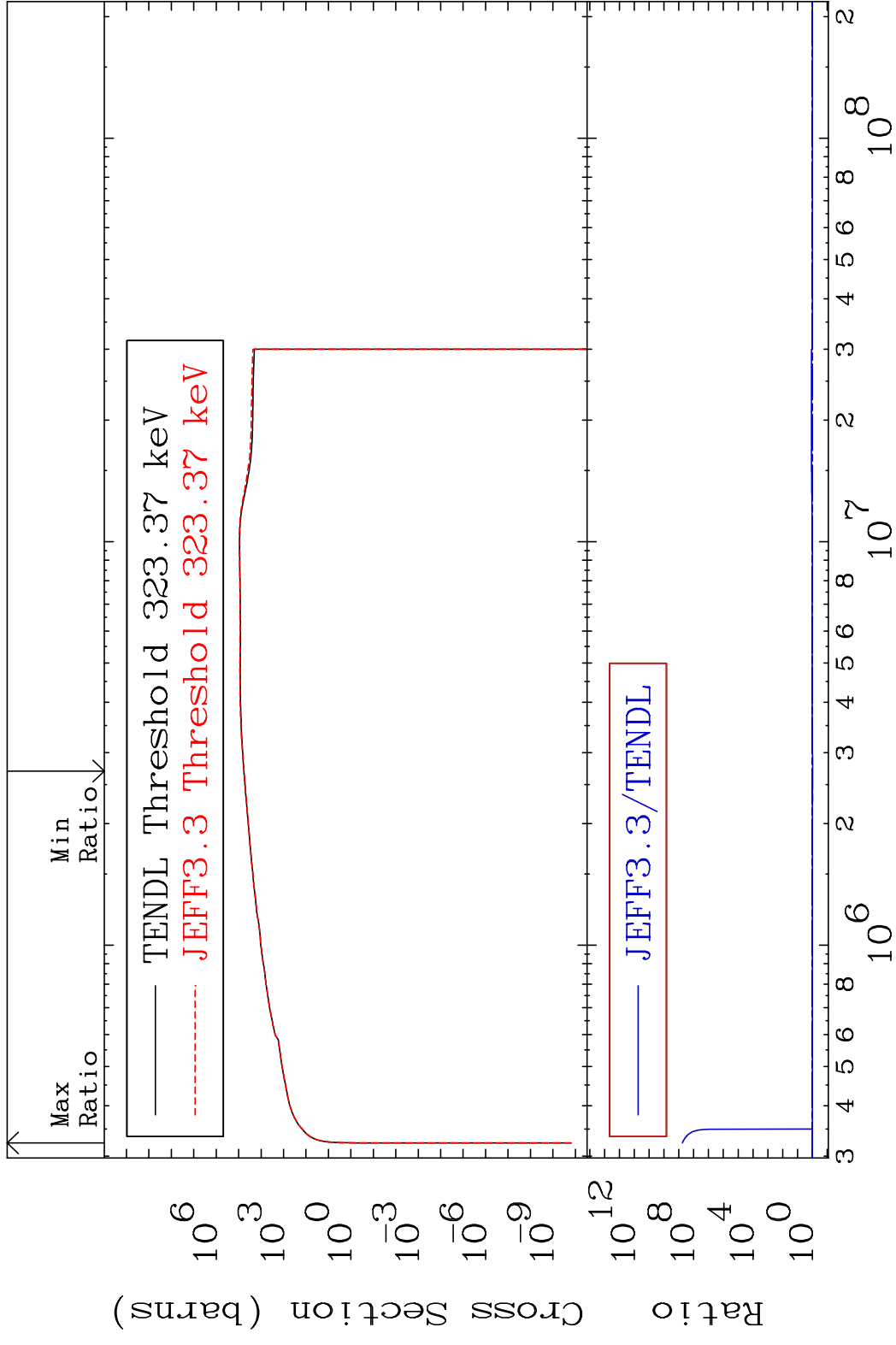


61

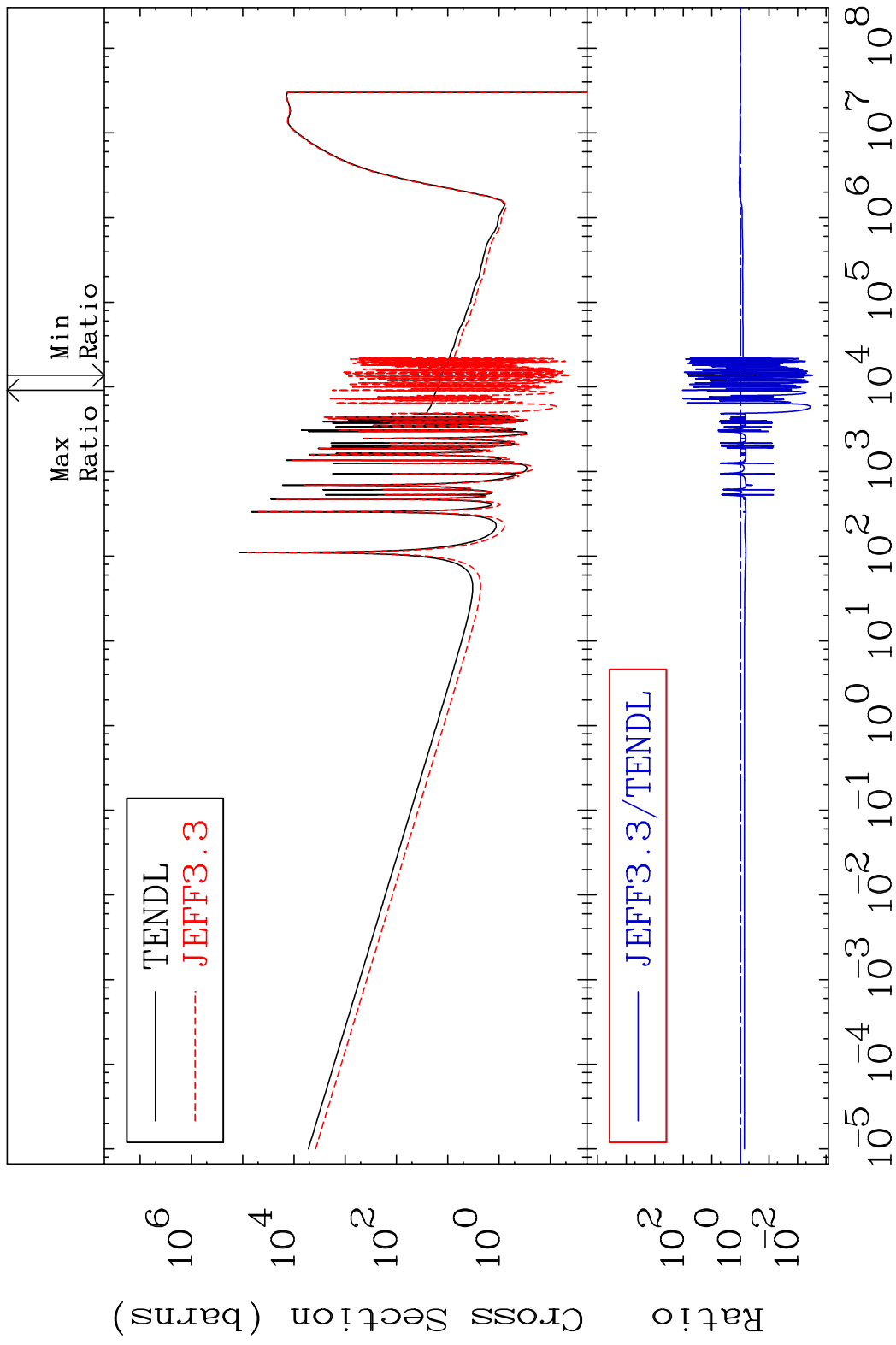
Incident Energy (eV)

31-Ga-69

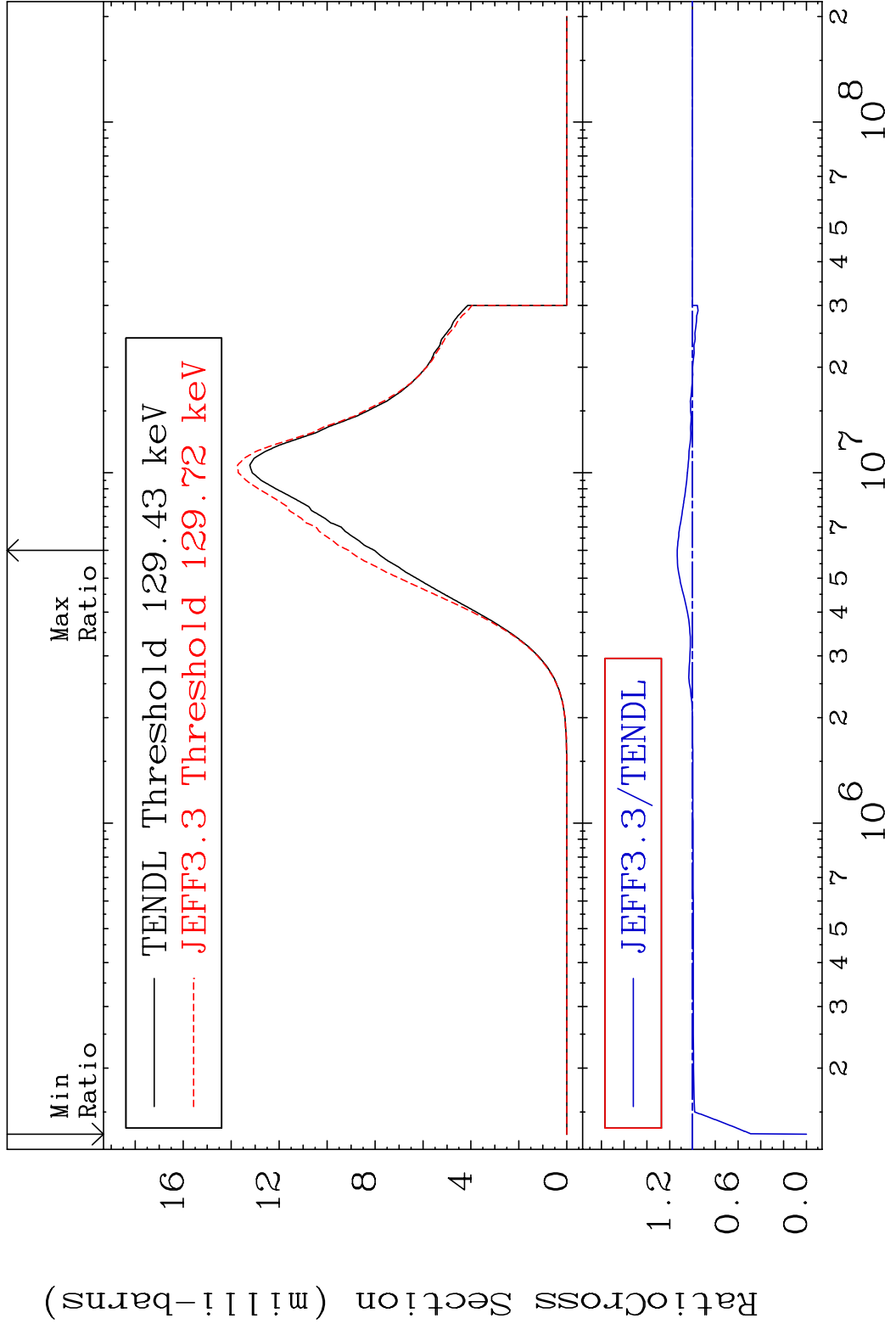
MAT 3125      Dpa inelastic (mt51-91)      31-Ga-69  
 Cross Section    -2.491 To 9999. %



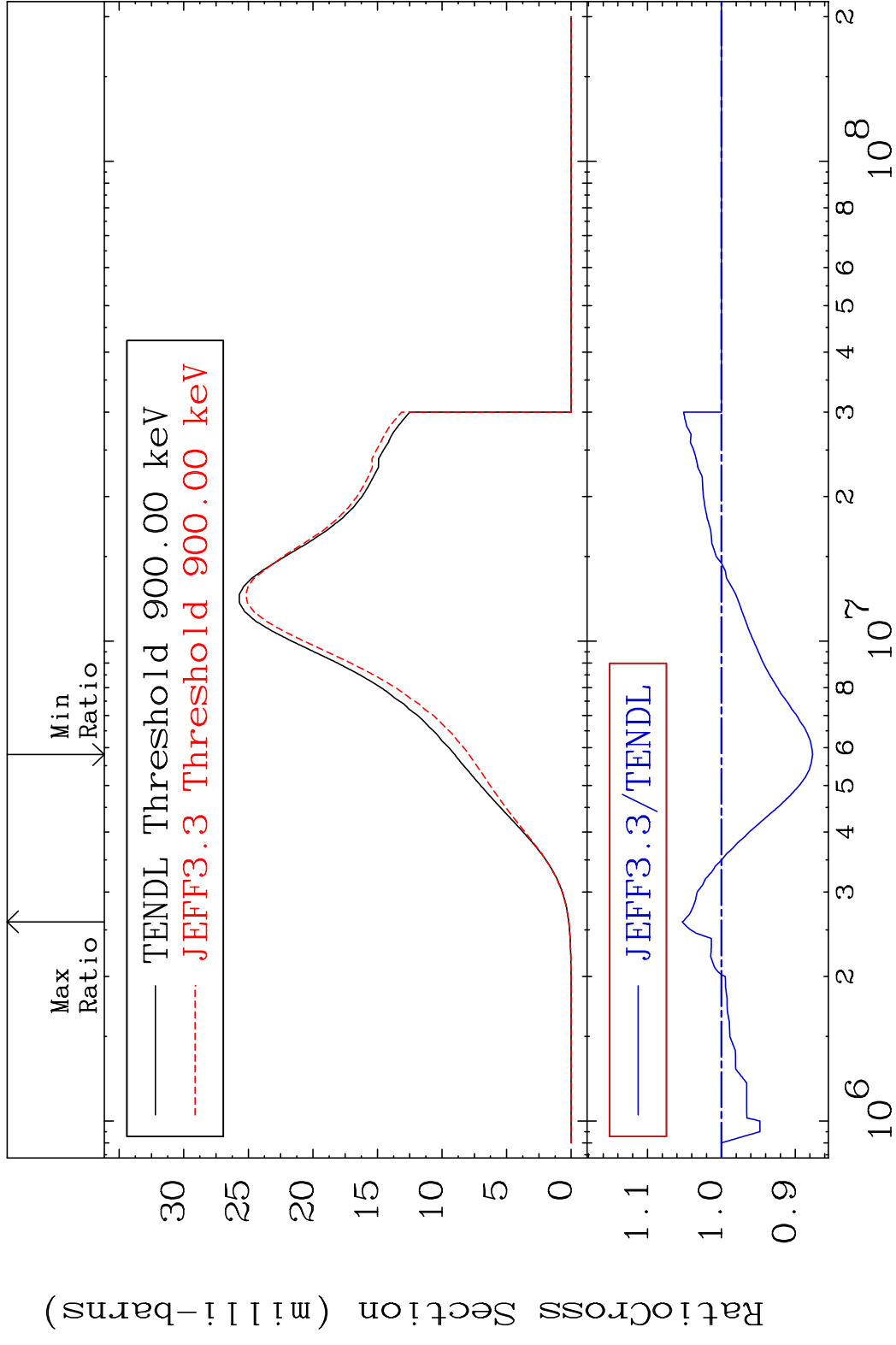
MAT 3125 Dpa disappearance (mt102 -120) 31-Ga-69  
 Cross Section -99.70 To 9999. %







MAT 3125 (n,p):30-Zn-69m1 31-Ga-69  
 Radionuclide Production Cross Section 12.65 mb 5.278 %



65 Incident Energy (eV) 31-Ga-69

