

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

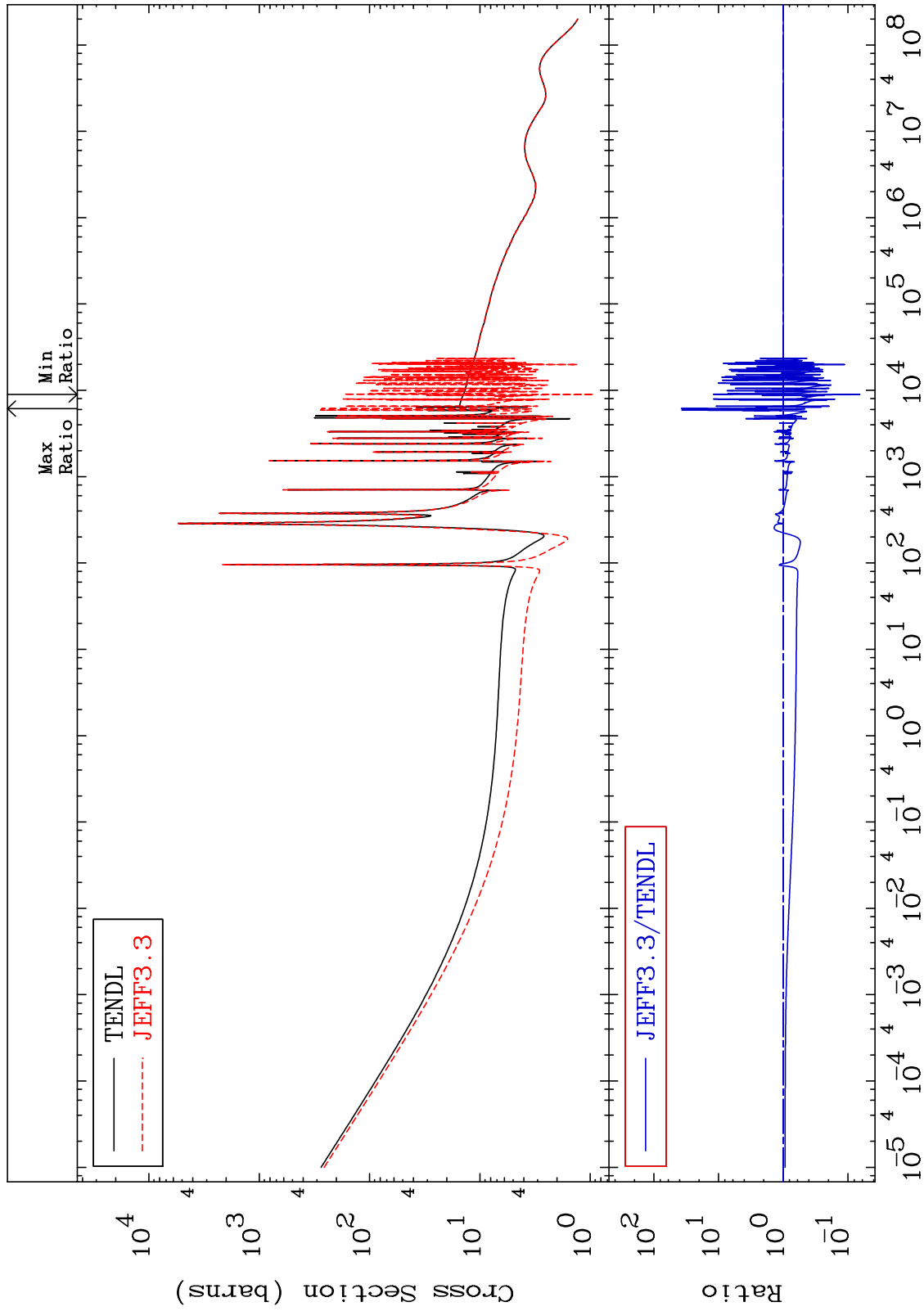
MAT 3131

Total

31-Ga-71

Cross Section

-93.45 To 3682. %



1

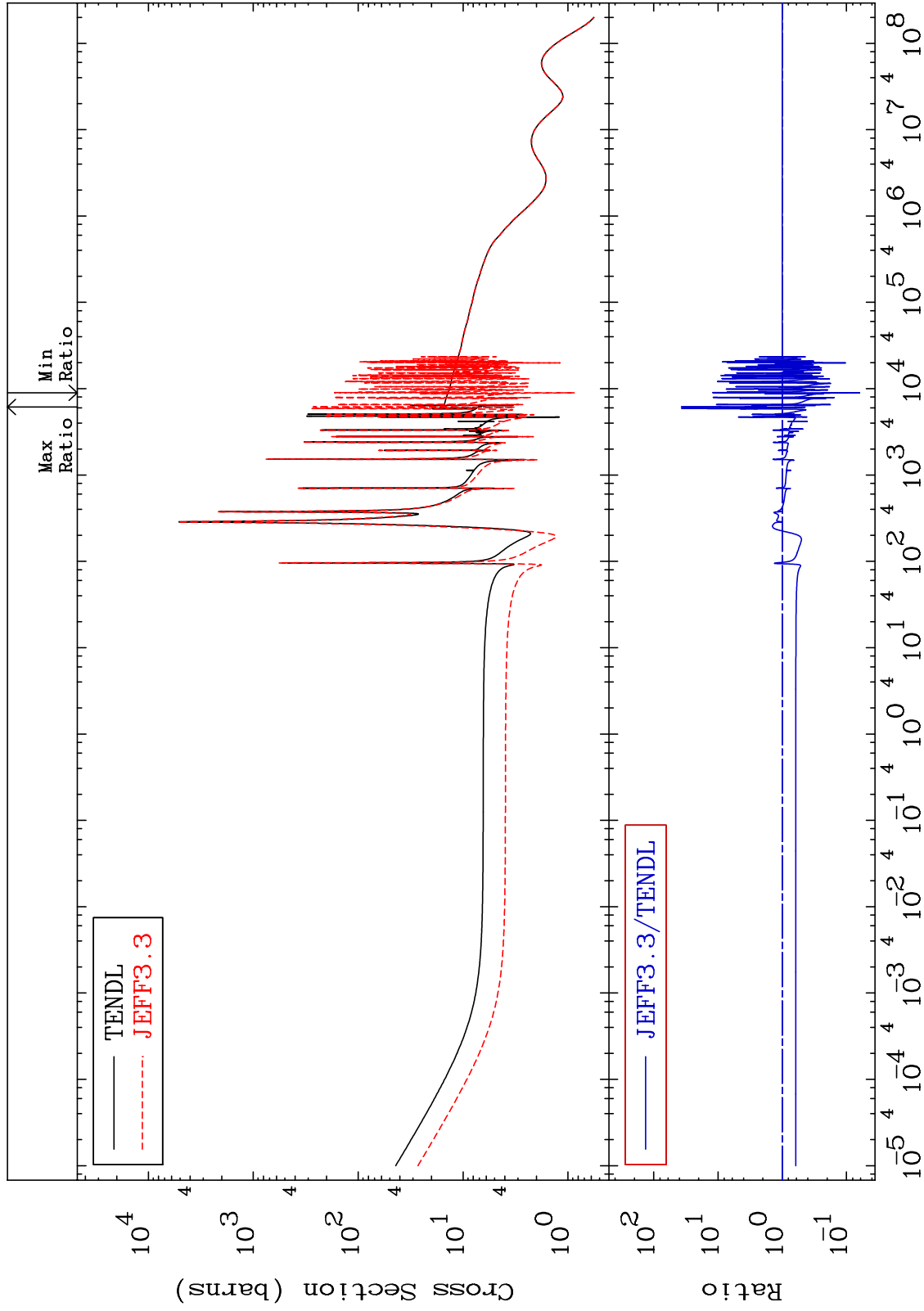
Incident Energy (eV)

31-Ga-71

MAT 3131

Elastic
Cross Section

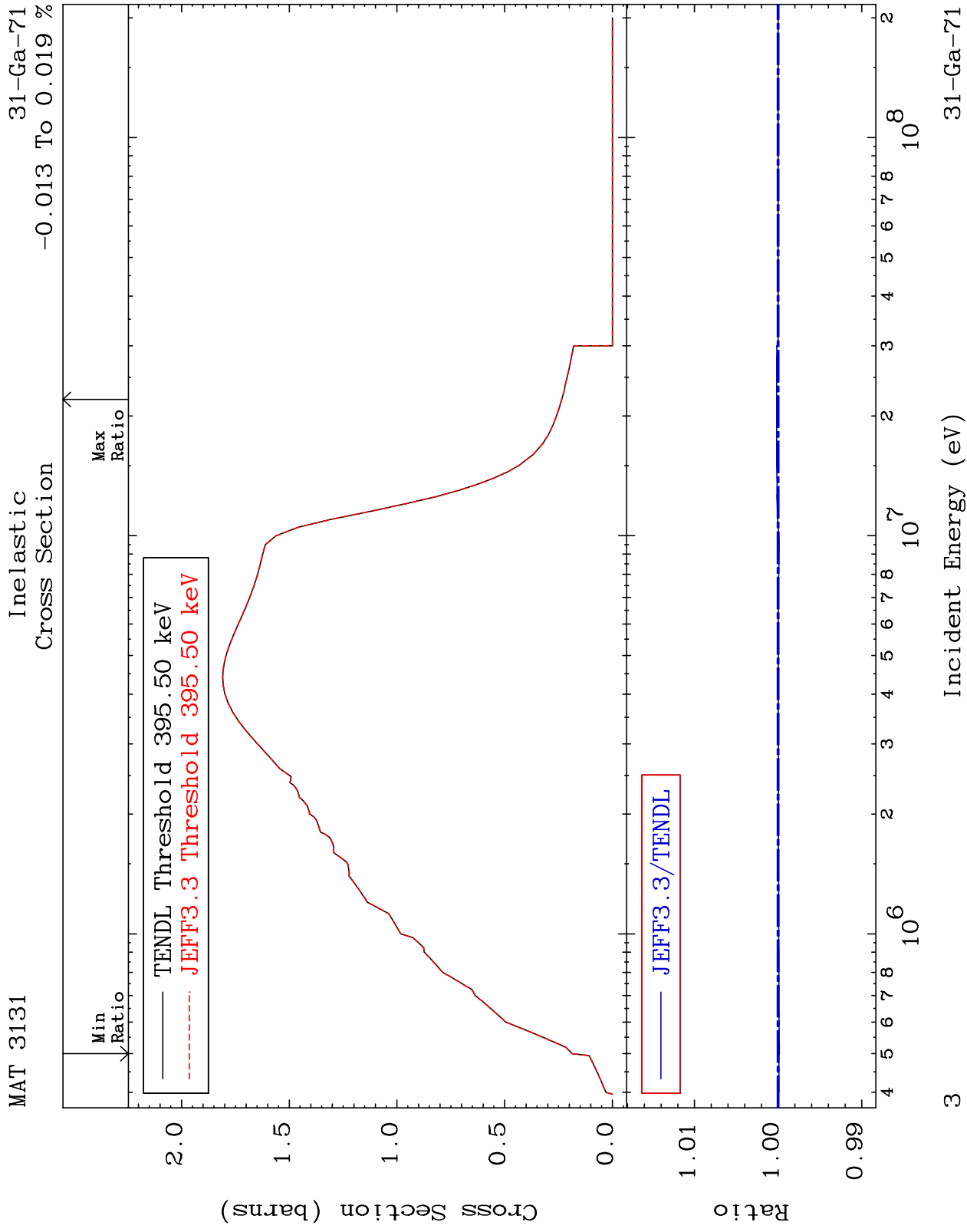
31-Ga-71
-93.80 To 3635. %

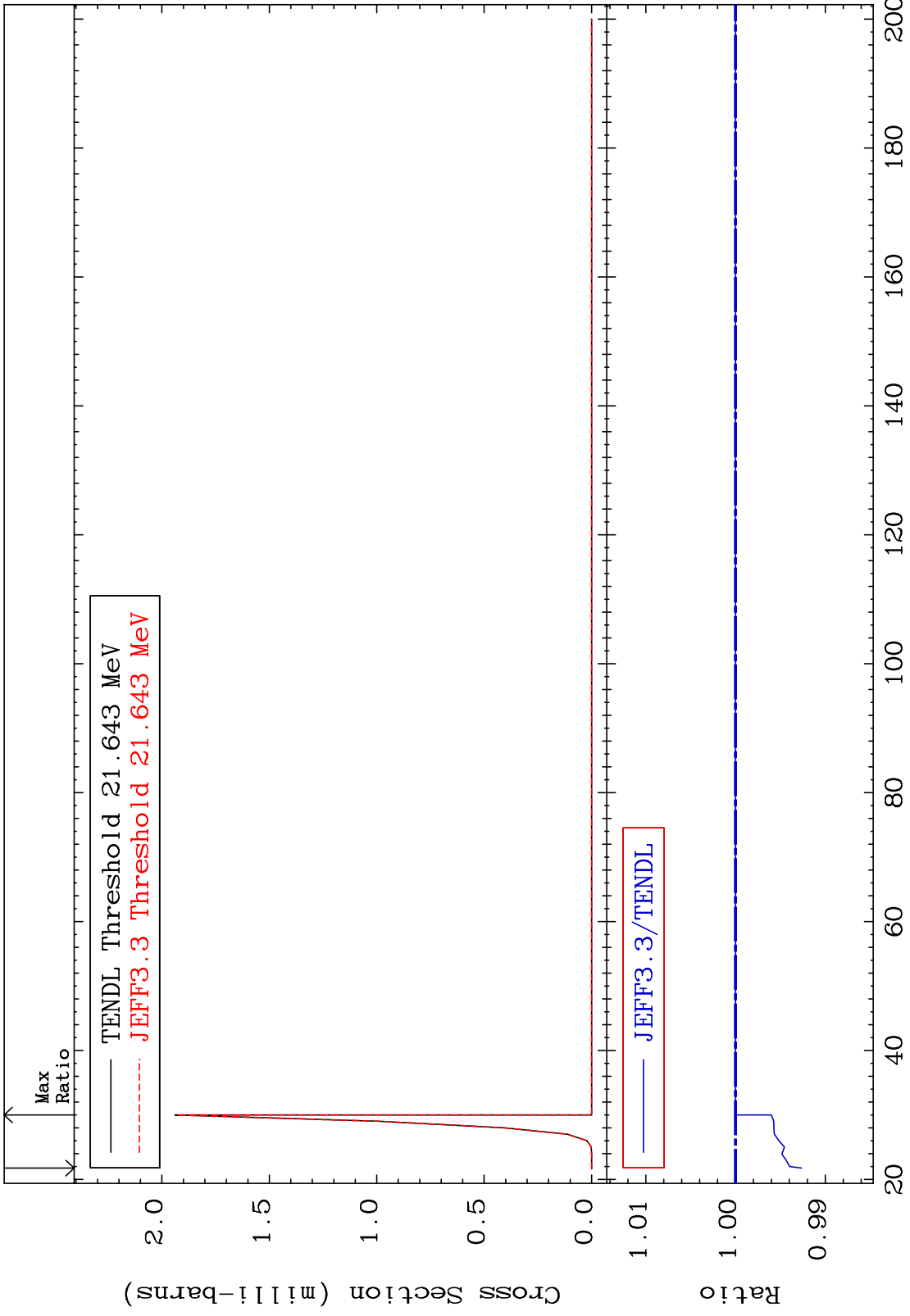


2

Incident Energy (eV)

31-Ga-71





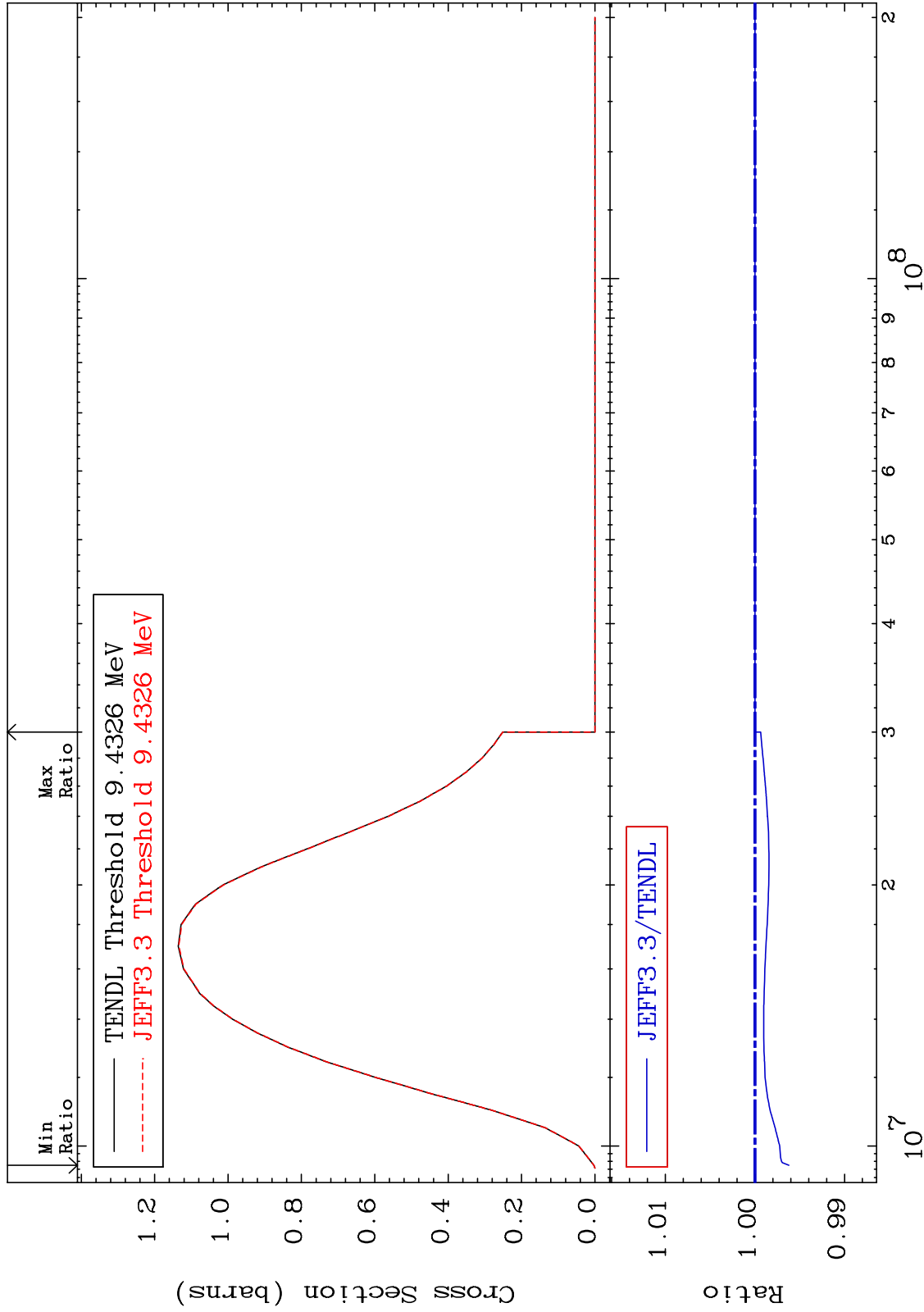
MAT 3131

(n,2n)

31-Ga-71

-0.378 To 0.000 %

Cross Section



31-Ga-71

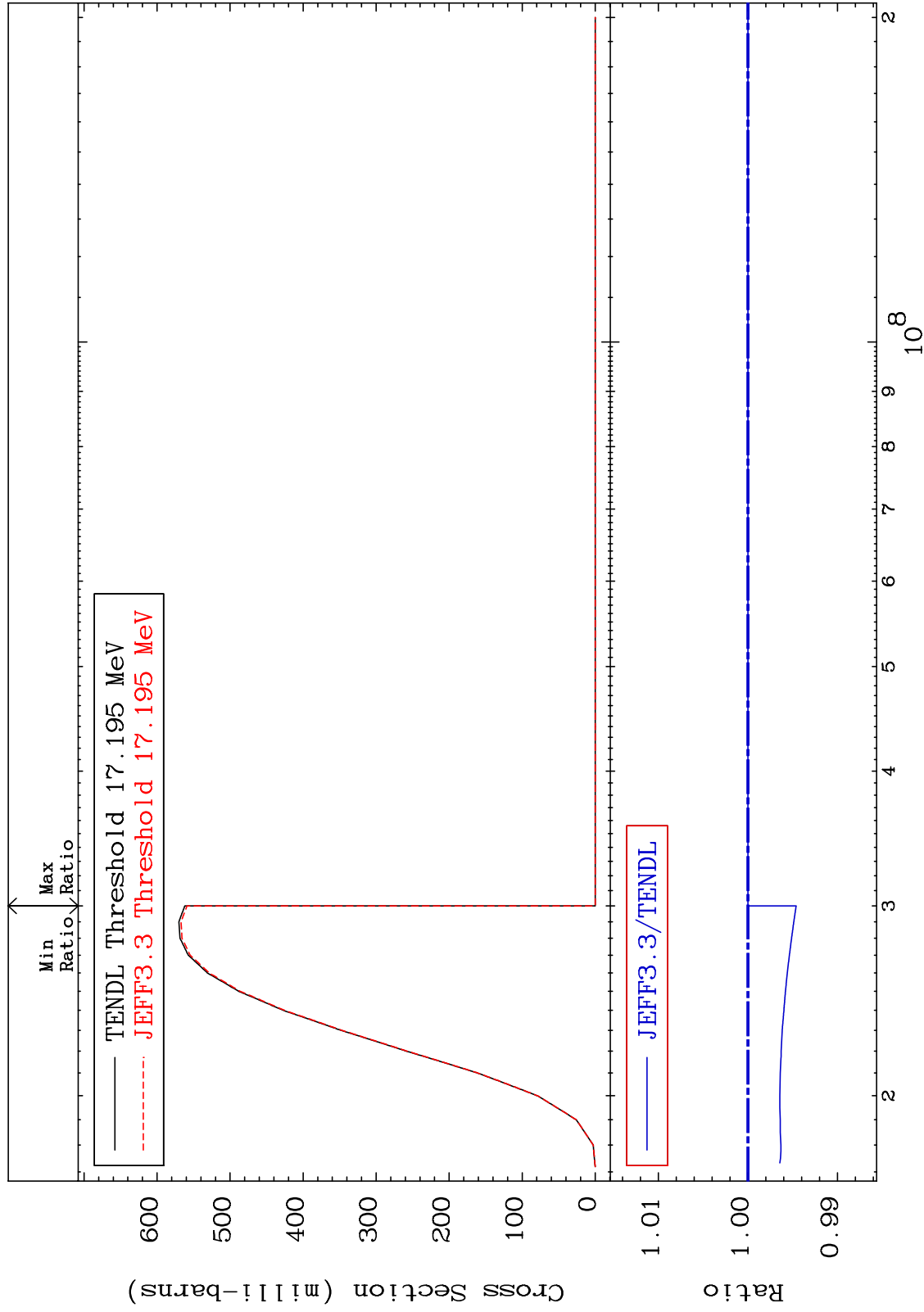
MAT 3131

(n,3n)

31-Ga-71

Cross Section

-0.539 To 0.000 %

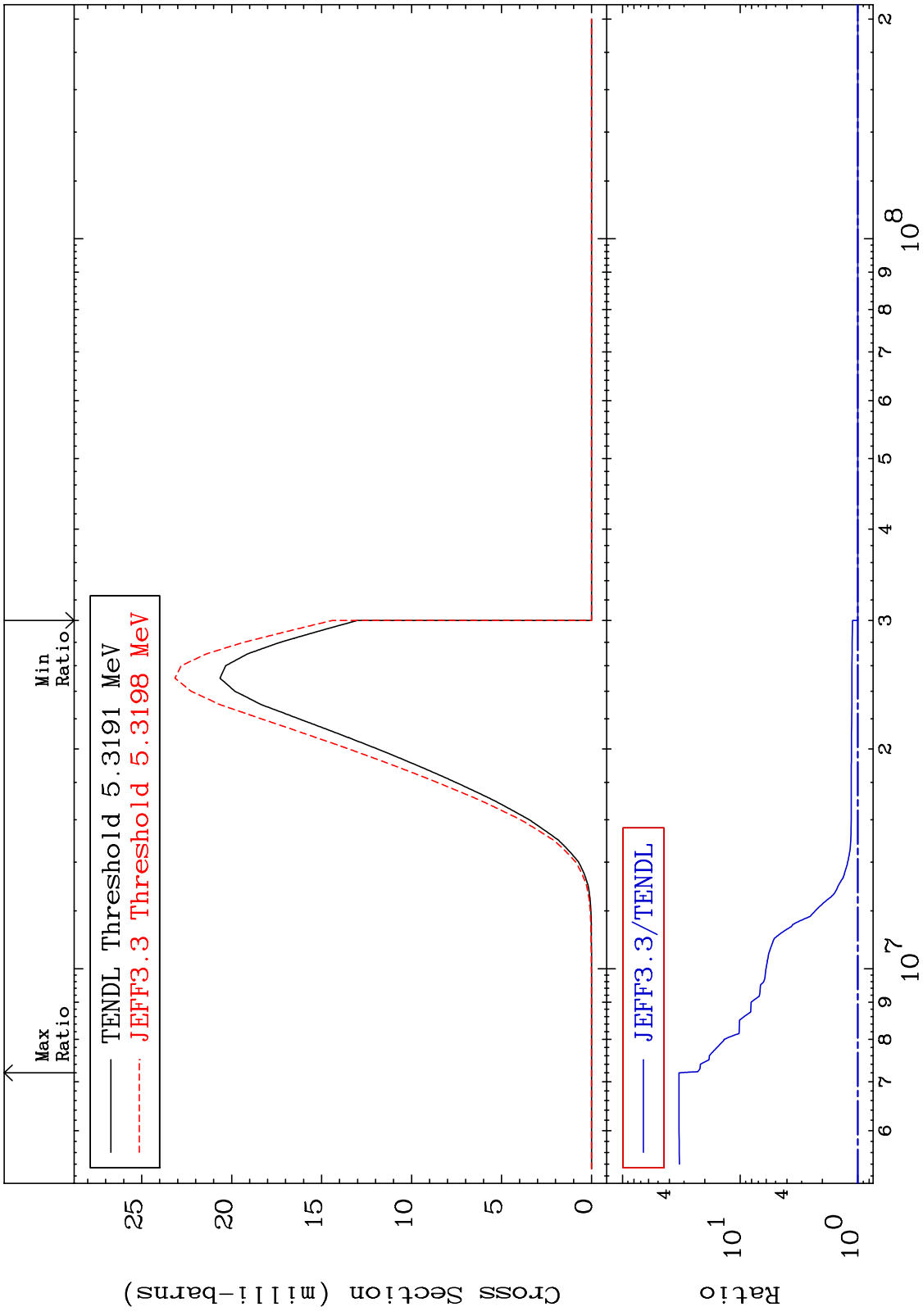


6

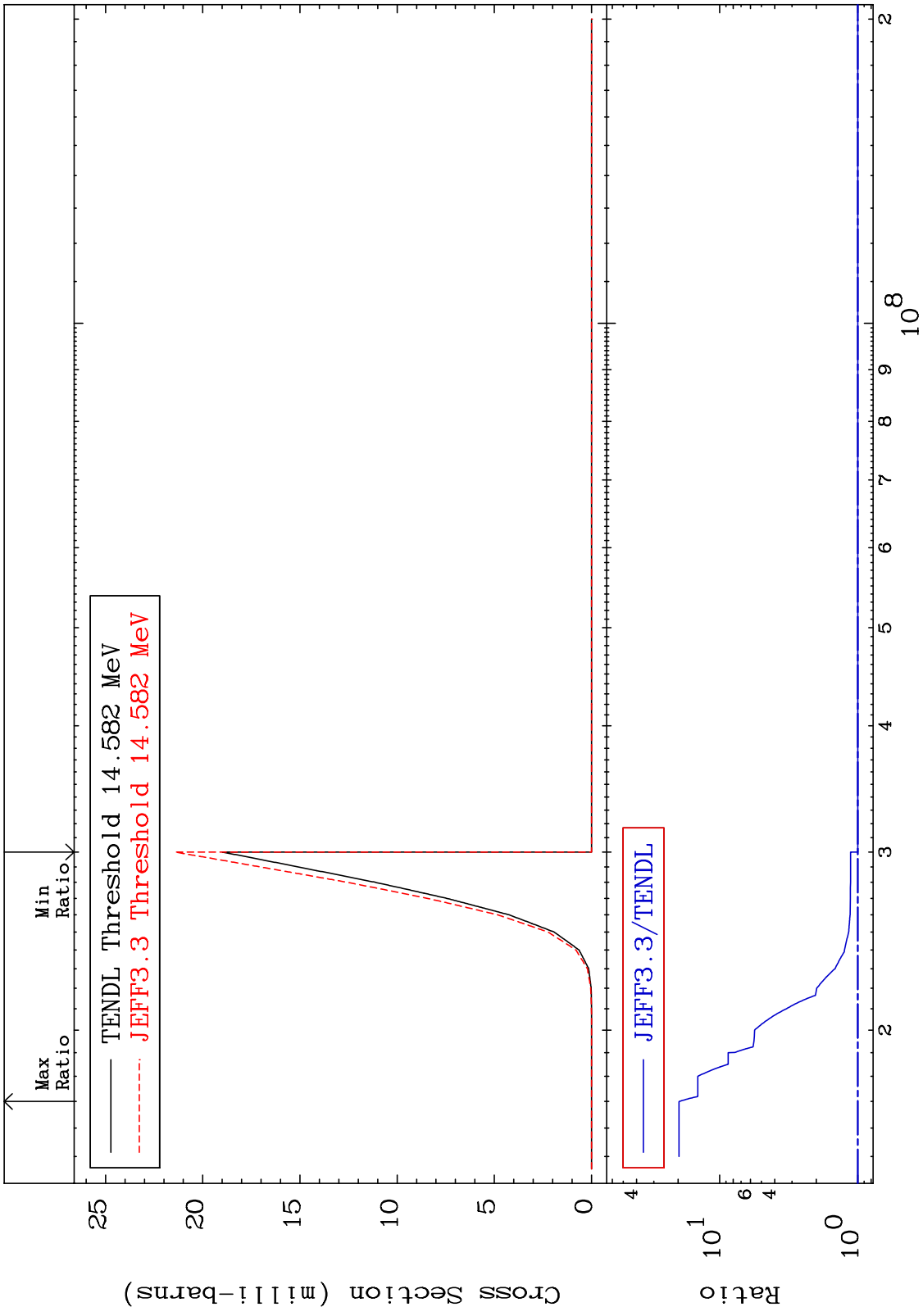
Incident Energy (eV)

31-Ga-71

MAT 3131 $(n, n') \alpha$ 31-Ga-71
 Cross Section 0.000 To 3206. %



MAT 3131 $(n, 2n) \alpha$ 31-Ga-71
 Cross Section To 1871. %



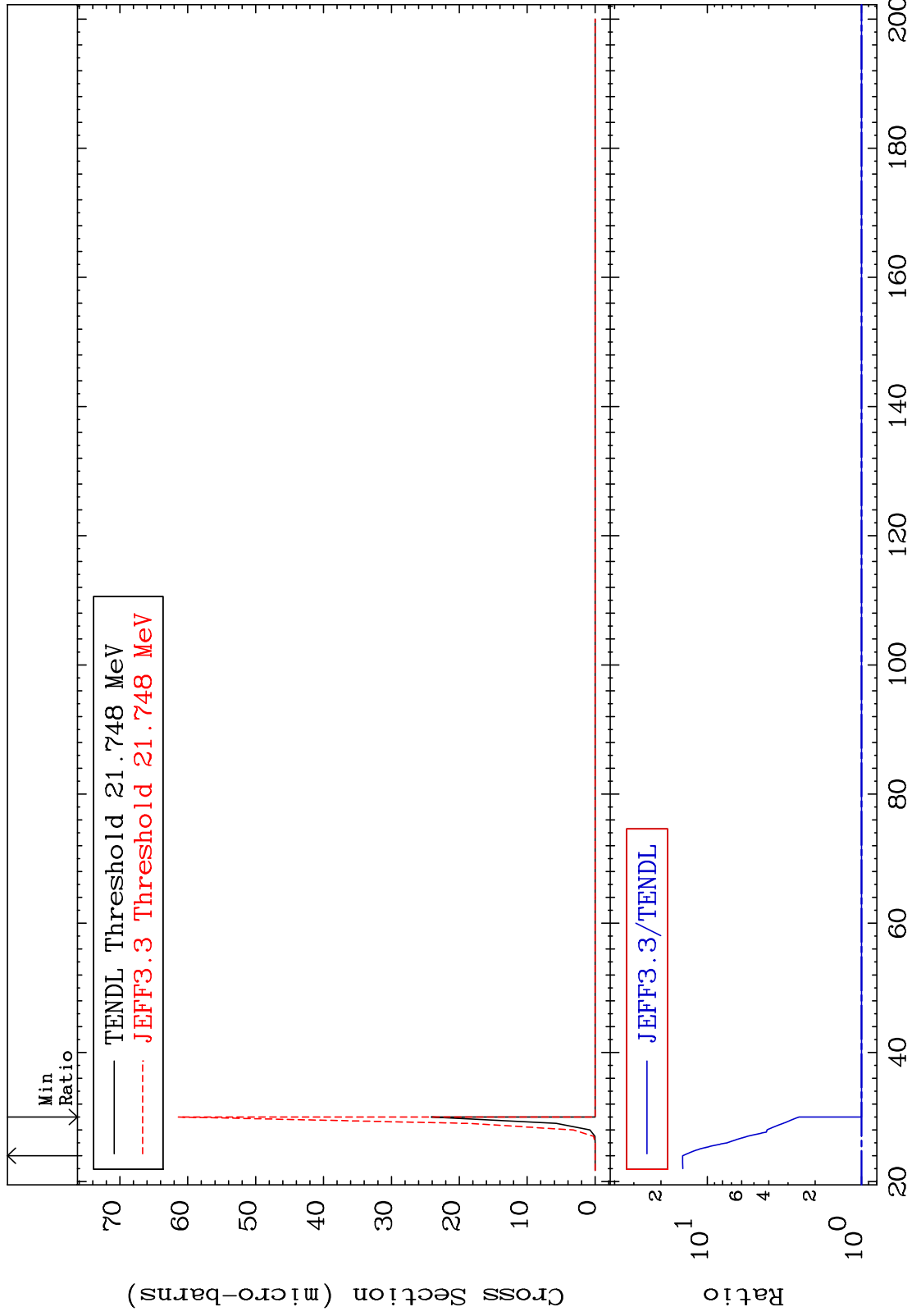
MAT 3131

(n,3n) α

³¹Ga-71

Cross Section

0.000 To 1347. %



9

Incident Energy (MeV)

³¹Ga-71

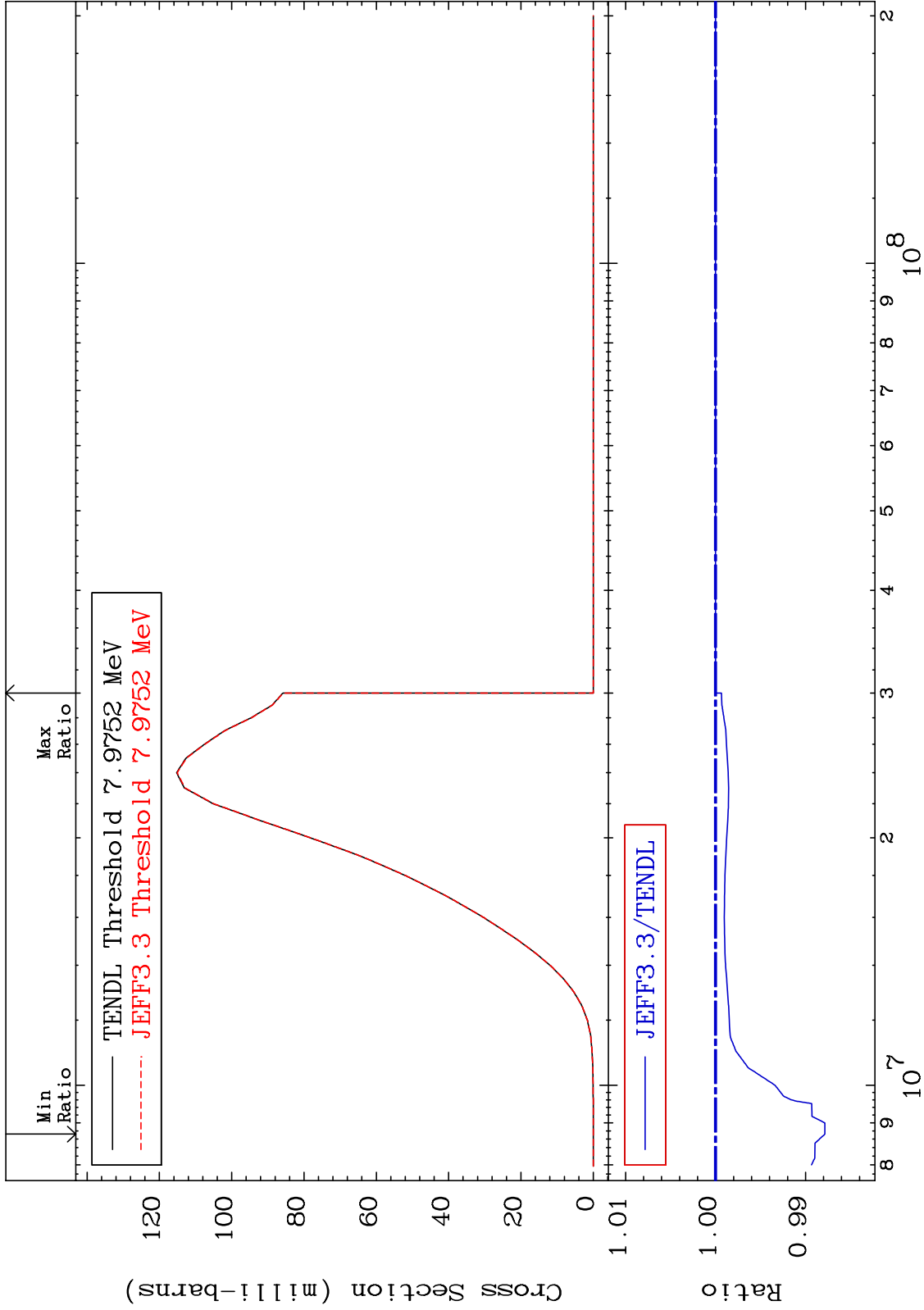
MAT 3131

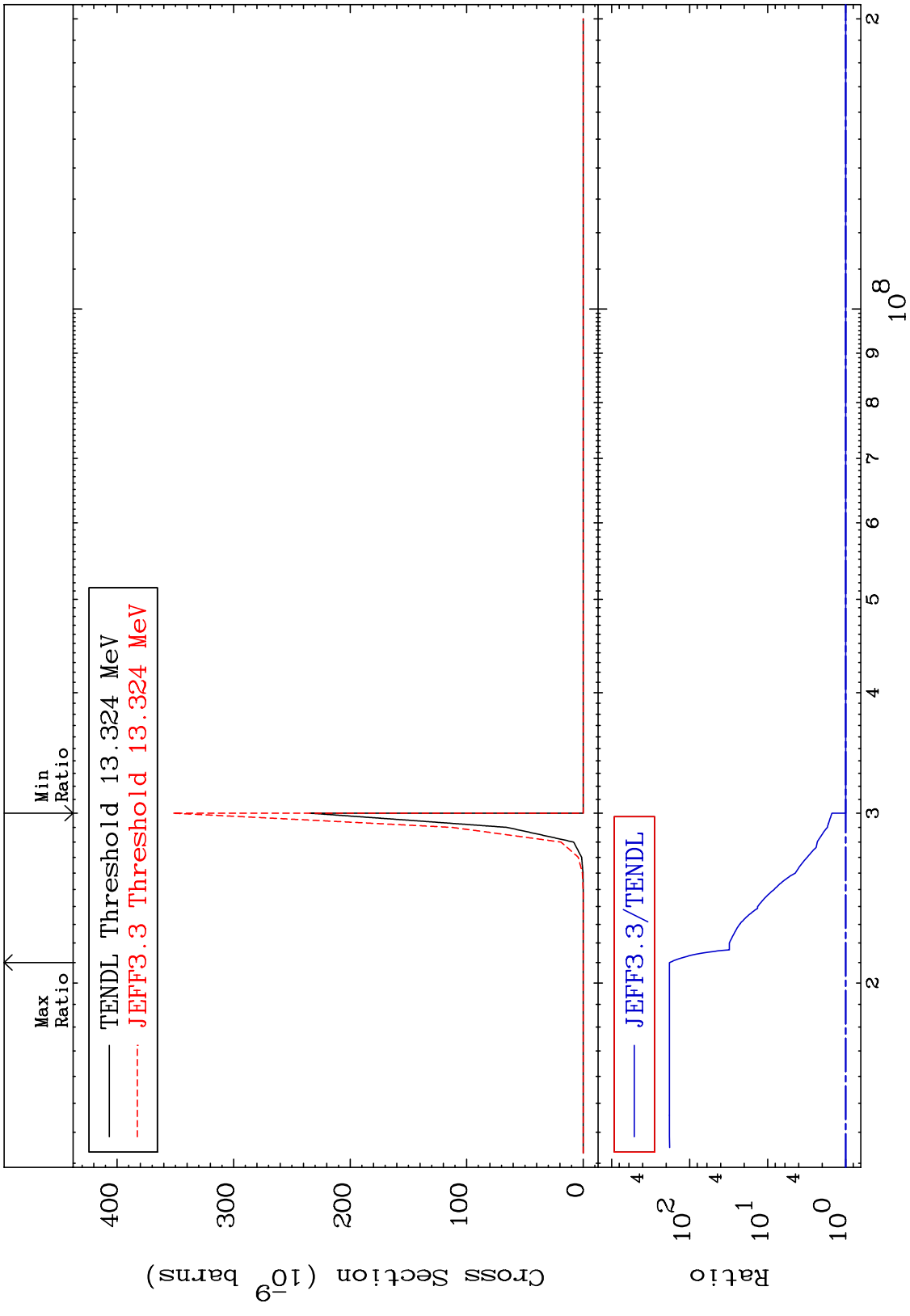
(n,n') p

31-Ga-71

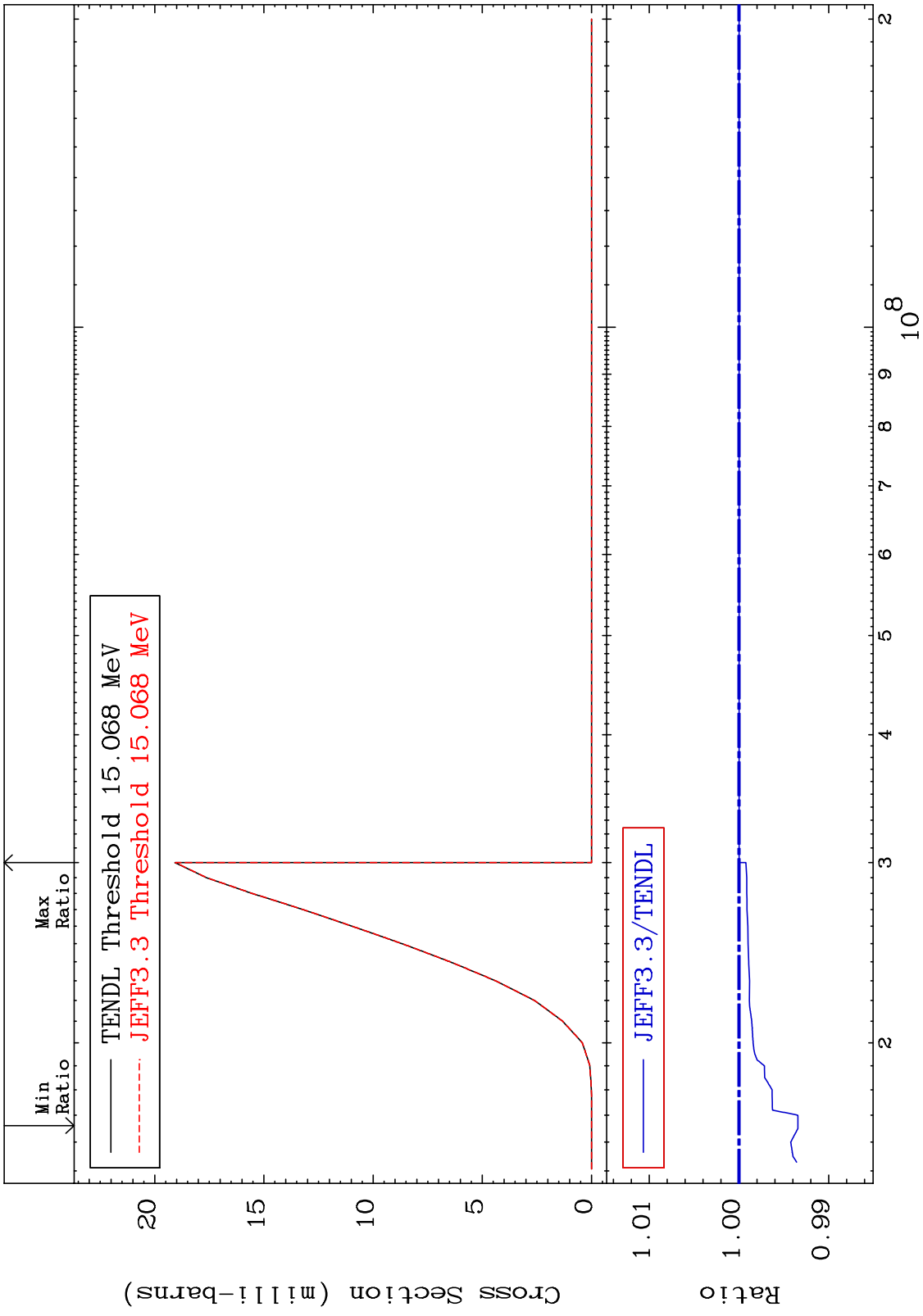
-1.215 To 0.000 %

Cross Section





MAT 3131 (n,n') d 31-Ga-71
Cross Section -0.657 To 0.000 %



31-Ga-71

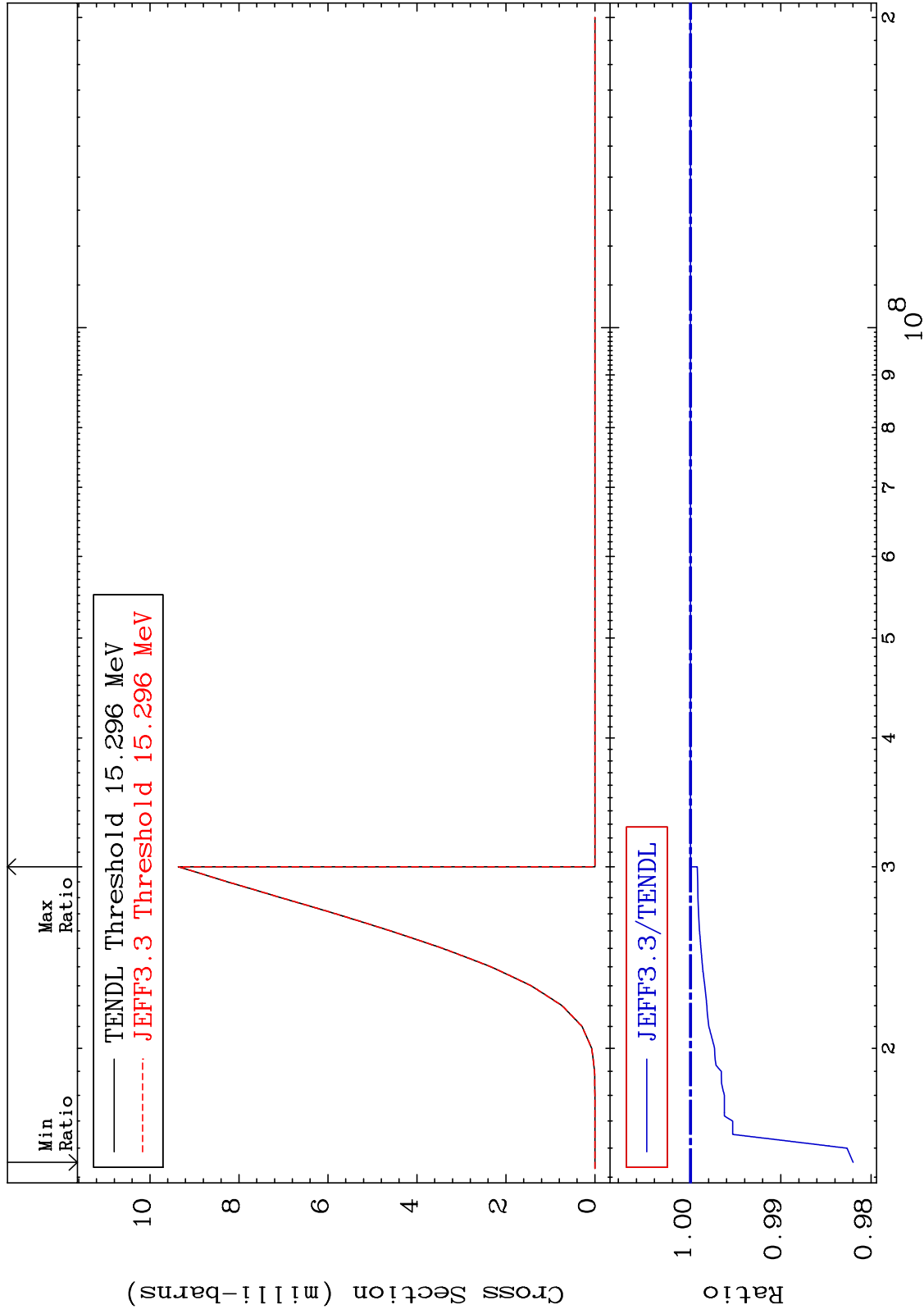
MAT 3131

(n,n') t

31-Ga-71

Cross Section

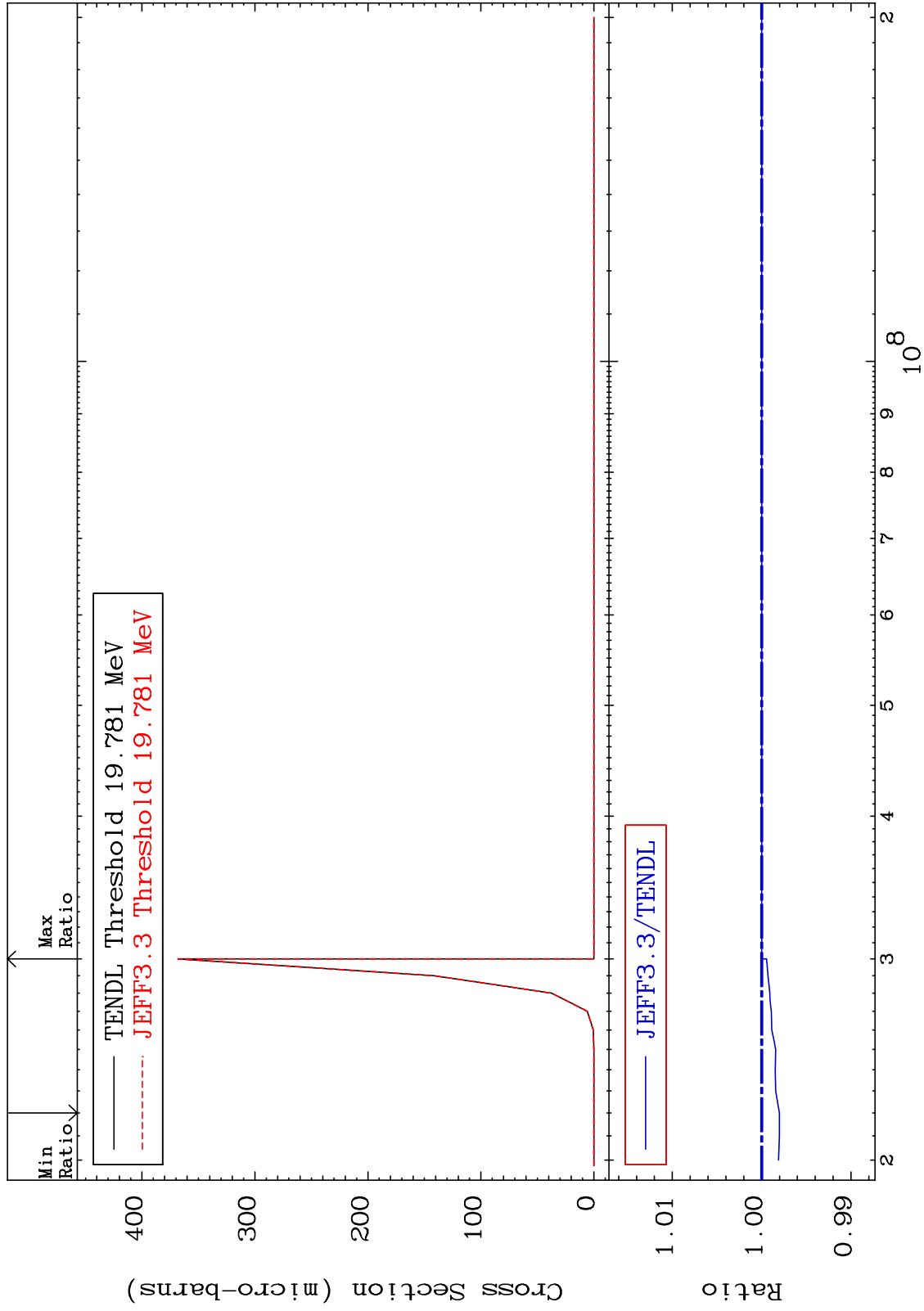
-1.803 To 0.000 %



MAT 3131

(n, n') He-3
Cross Section

31-Ga-71
-0.198 To 0.000 %



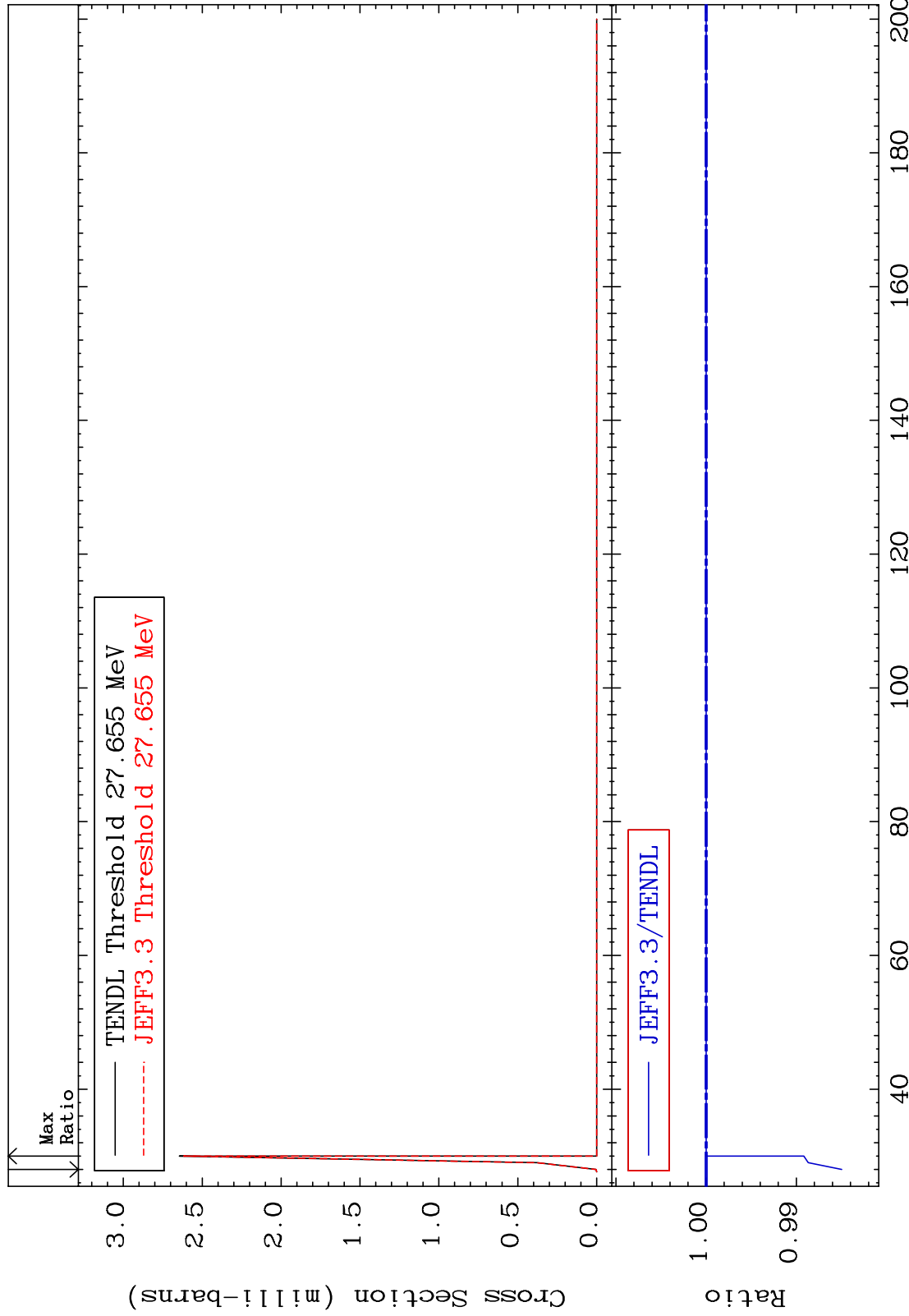
MAT 3131

(n,4n)

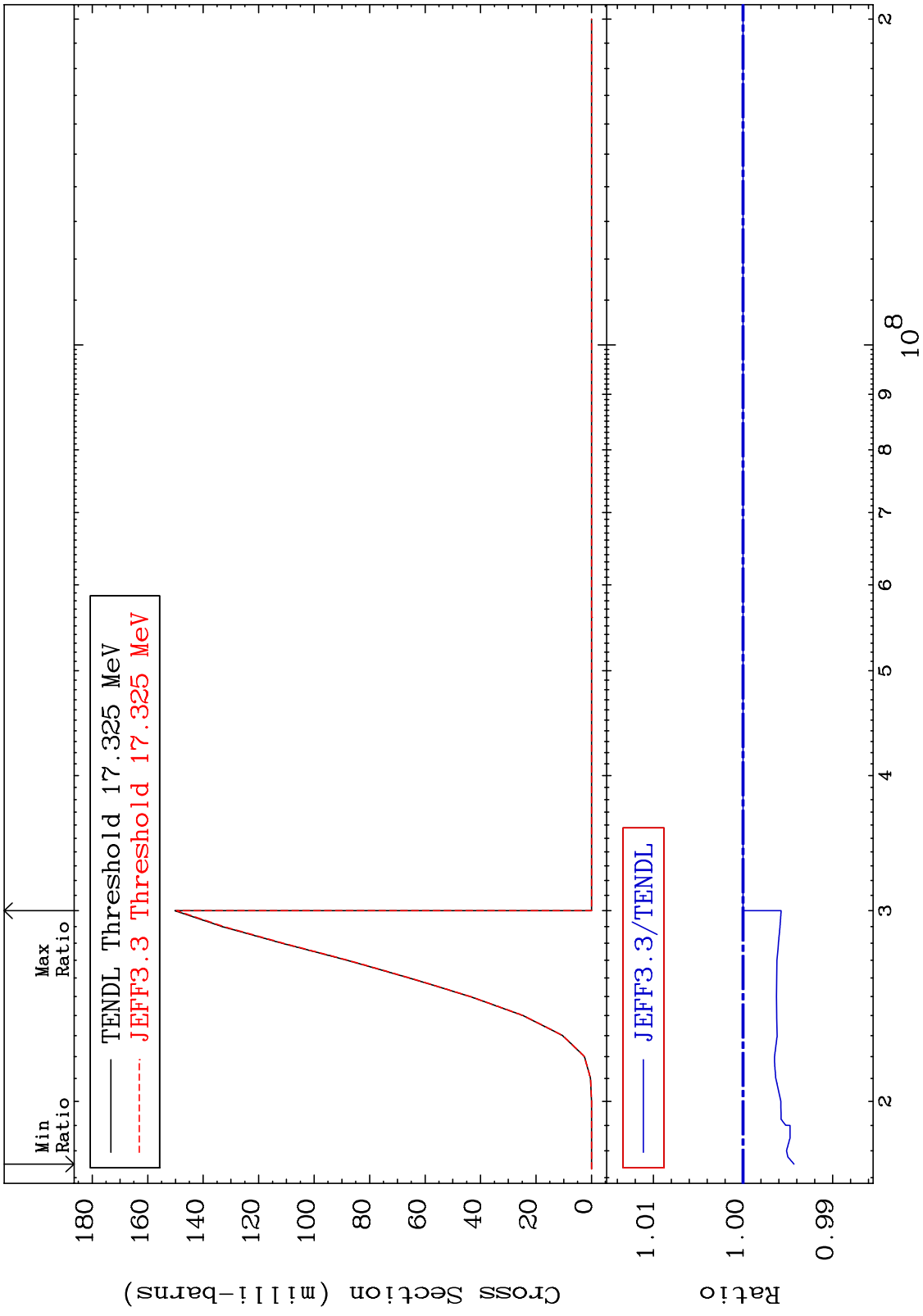
31-Ga-71

Cross Section

-1.502 To 0.000 %



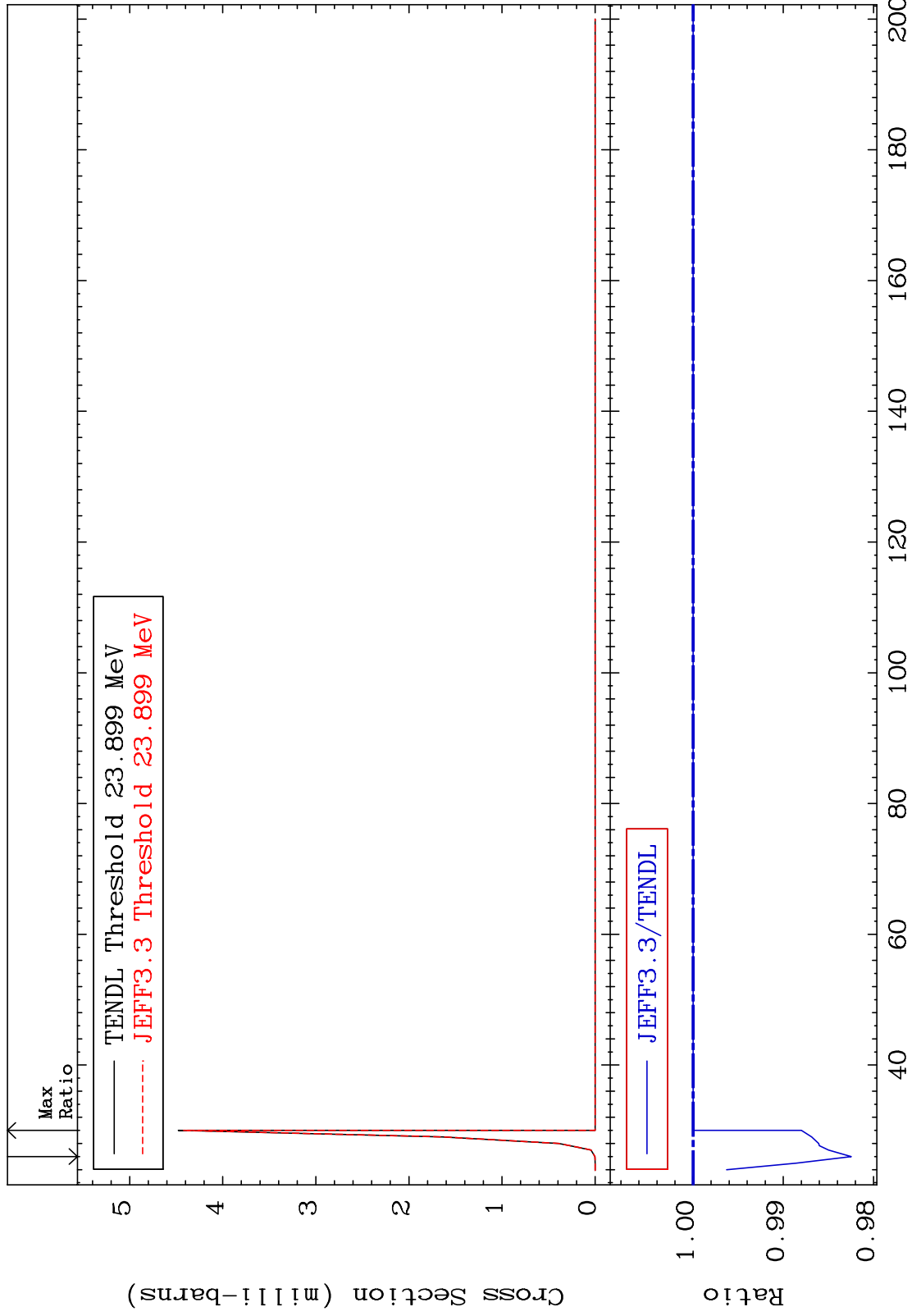
MAT 3131 (n,2n) p 31-Ga-71
 Cross Section -0.569 To 0.000 %



MAT 3131

(n,3n) p
Cross Section

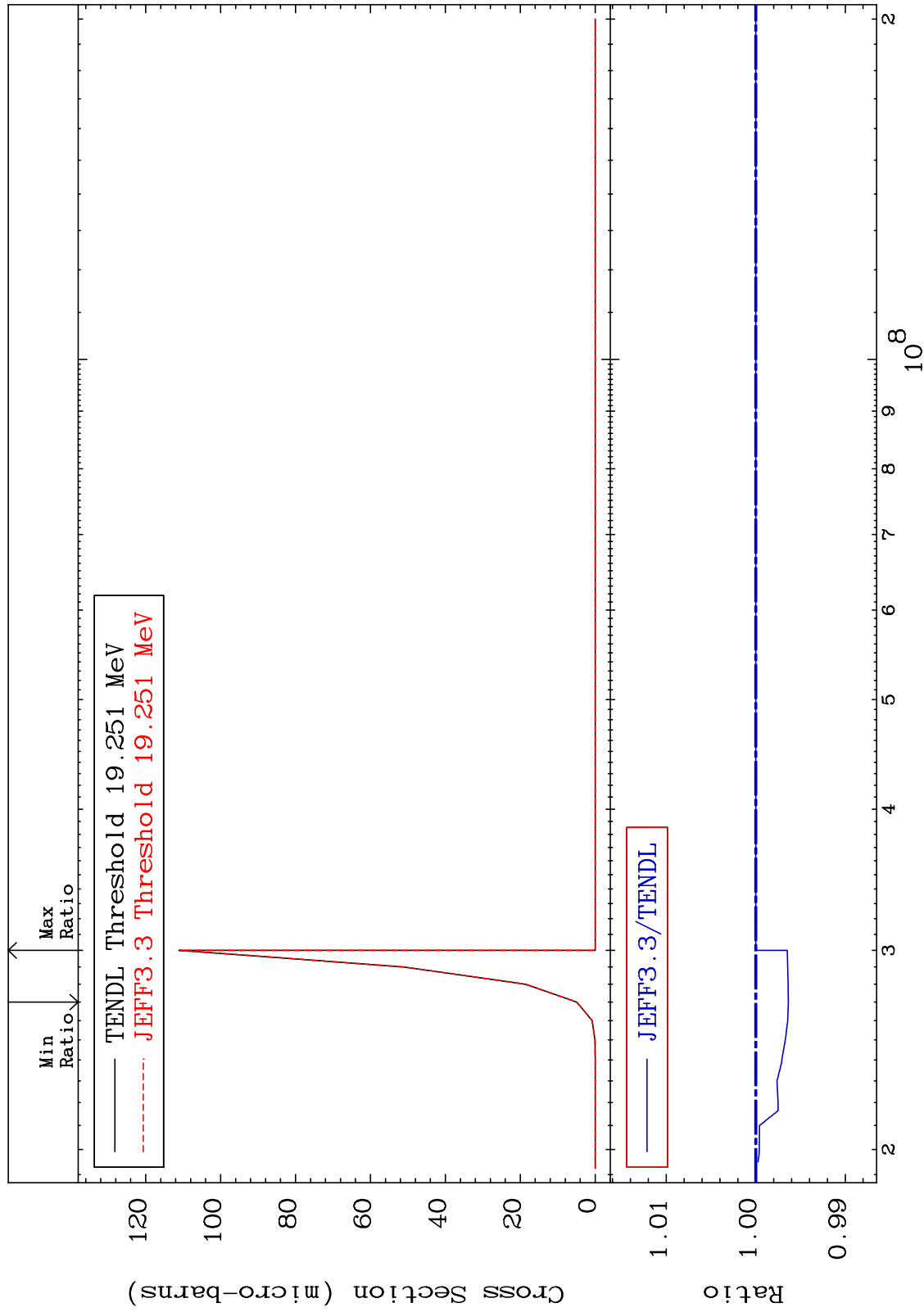
31-Ga-71
-1.752 To 0.000 %



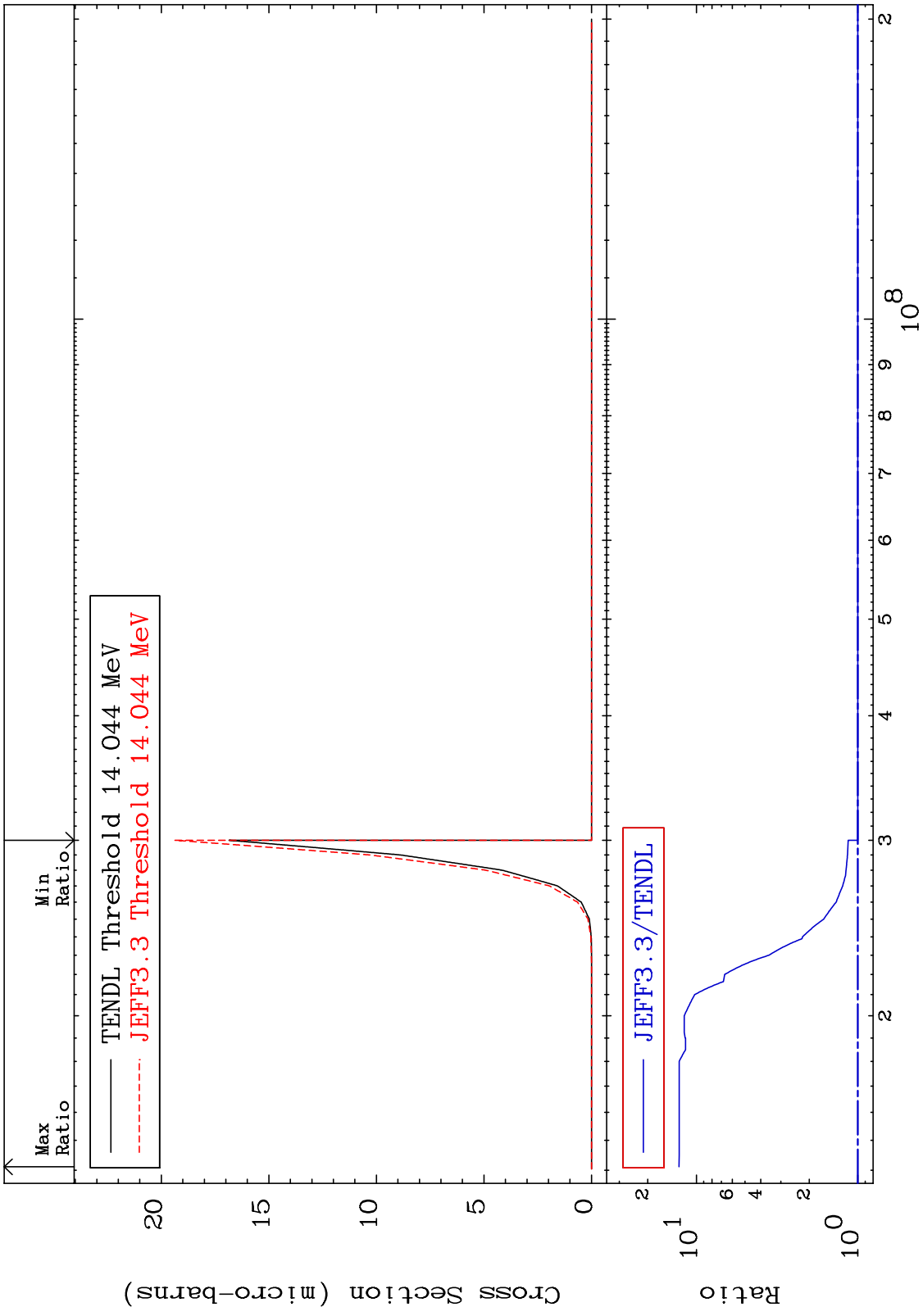
MAT 3131

(n,2n) p
Cross Section

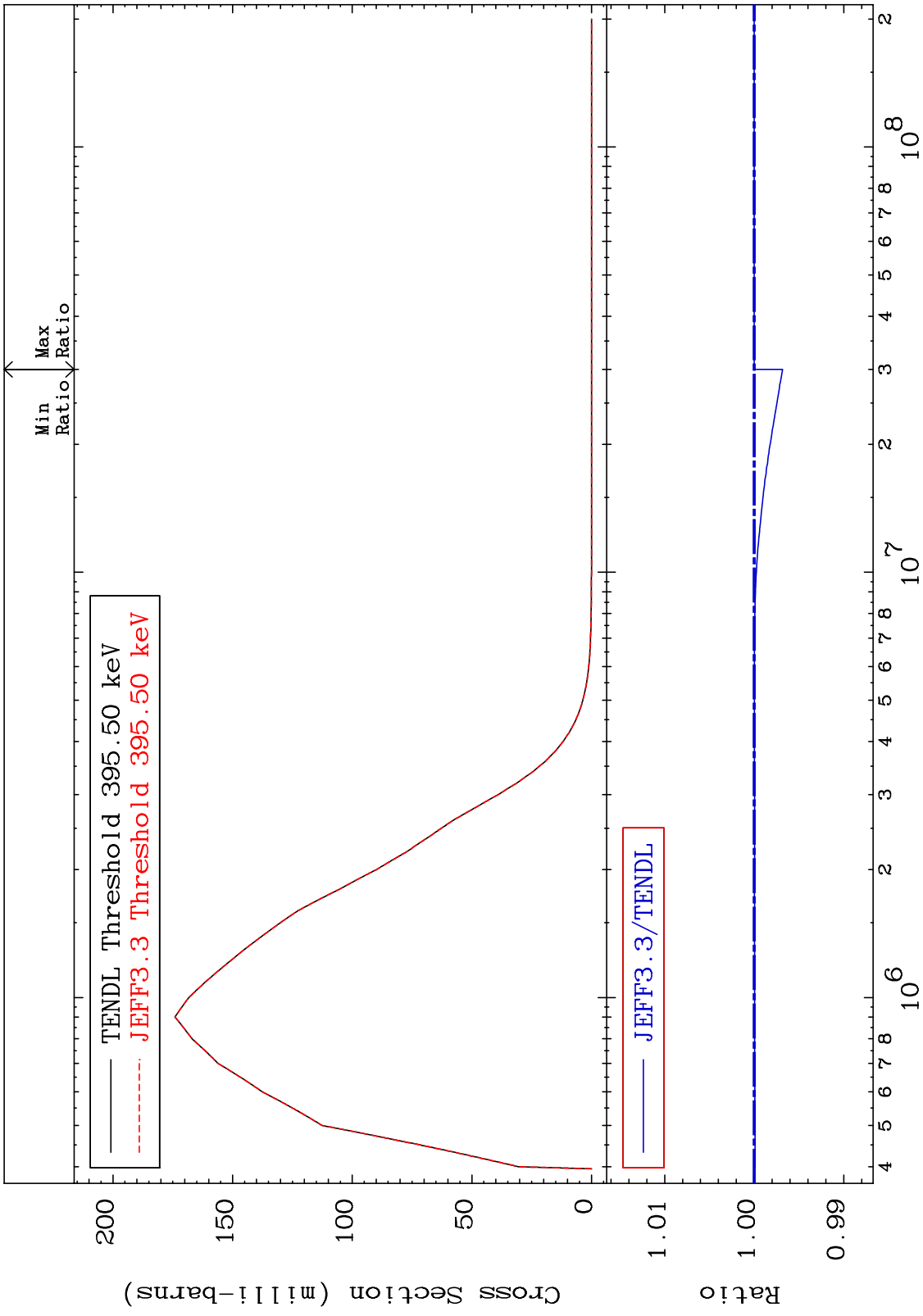
31-Ga-71
-0.363 To 0.000 %



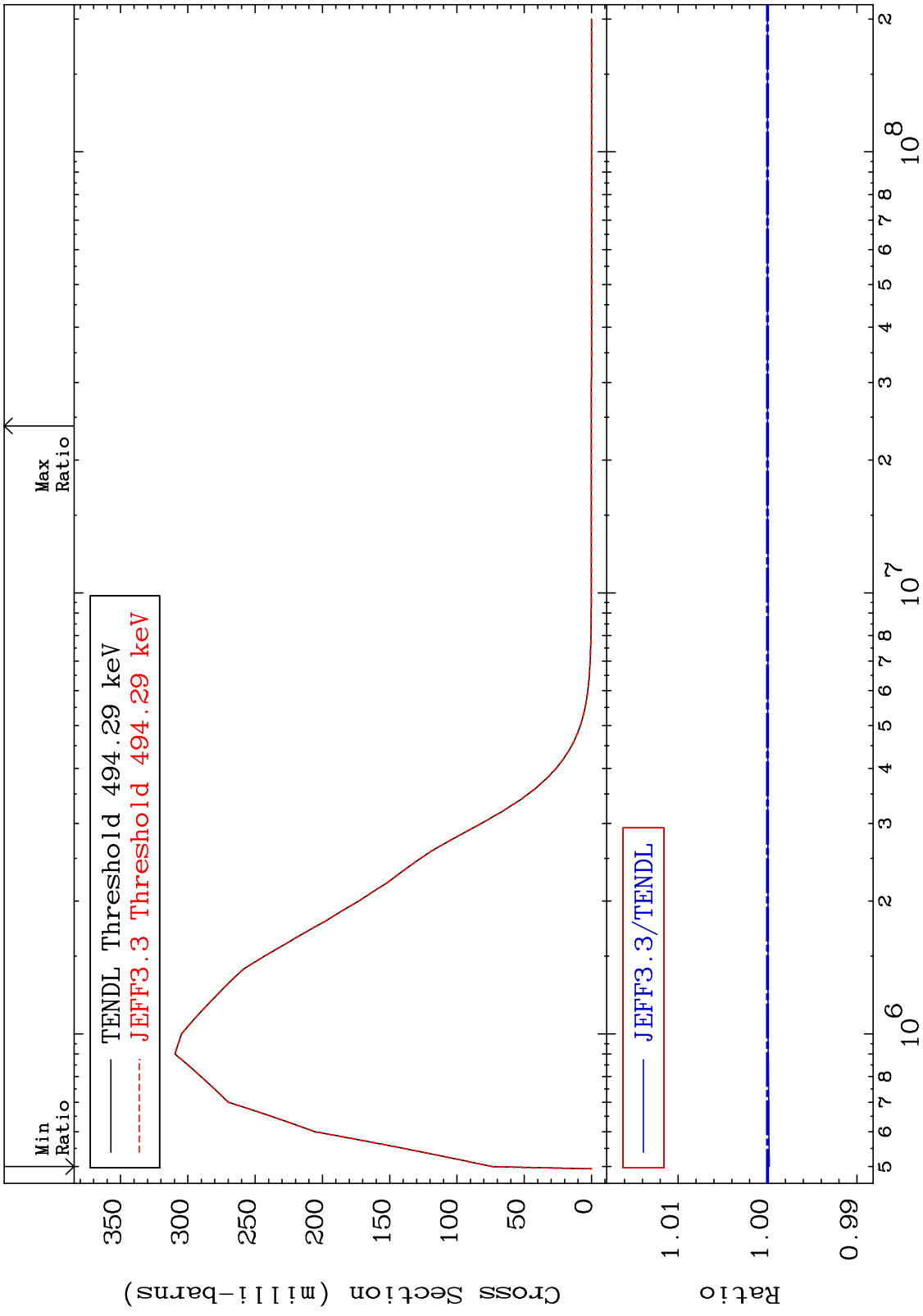
MAT 3131 (n,n') p α 31-Ga-71
Cross Section 0.000 To 1181. %



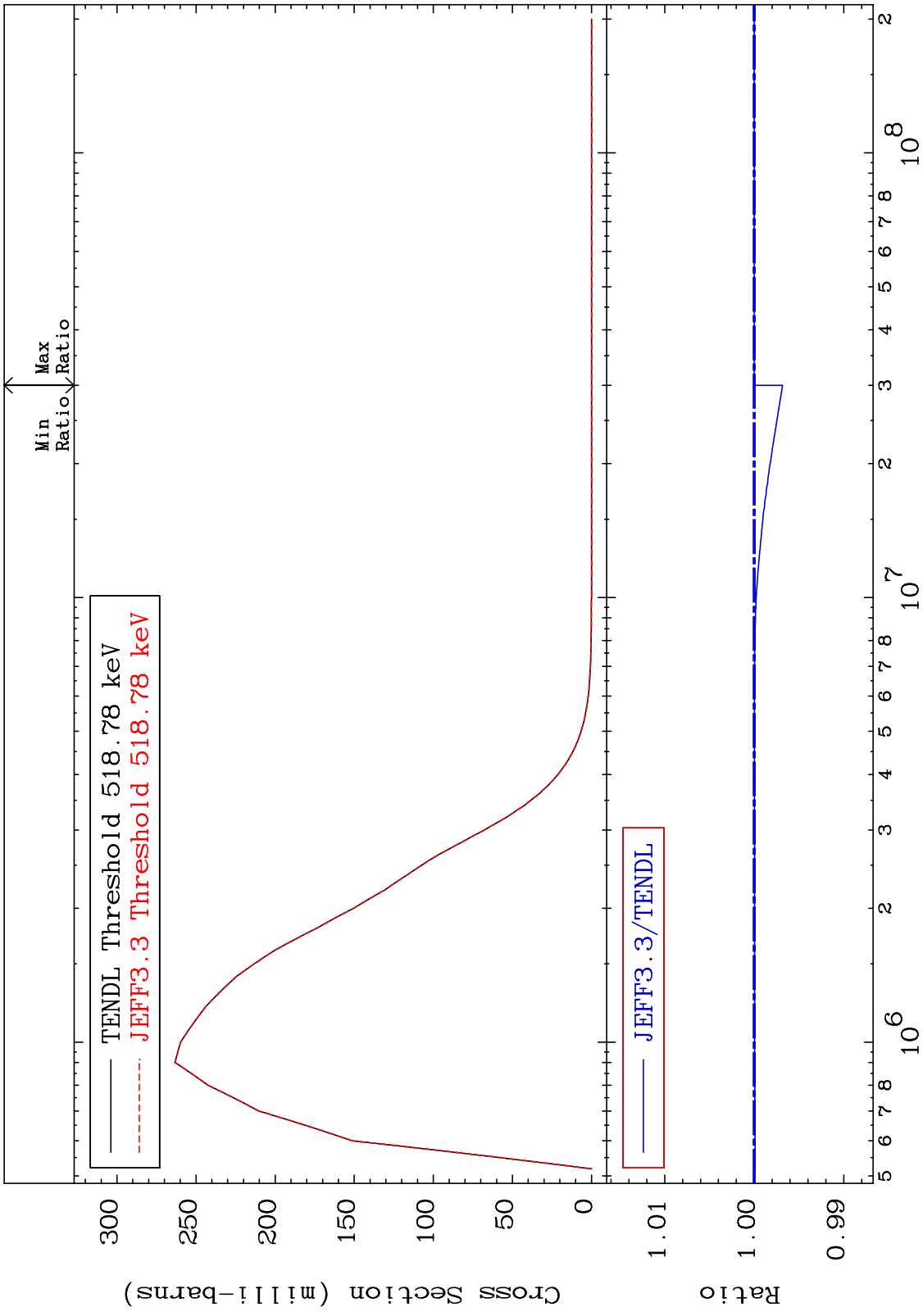
MAT 3131 MT= 51 (n,n') Level Cross Section 31-Ga-71 -0.317 To 0.000 %



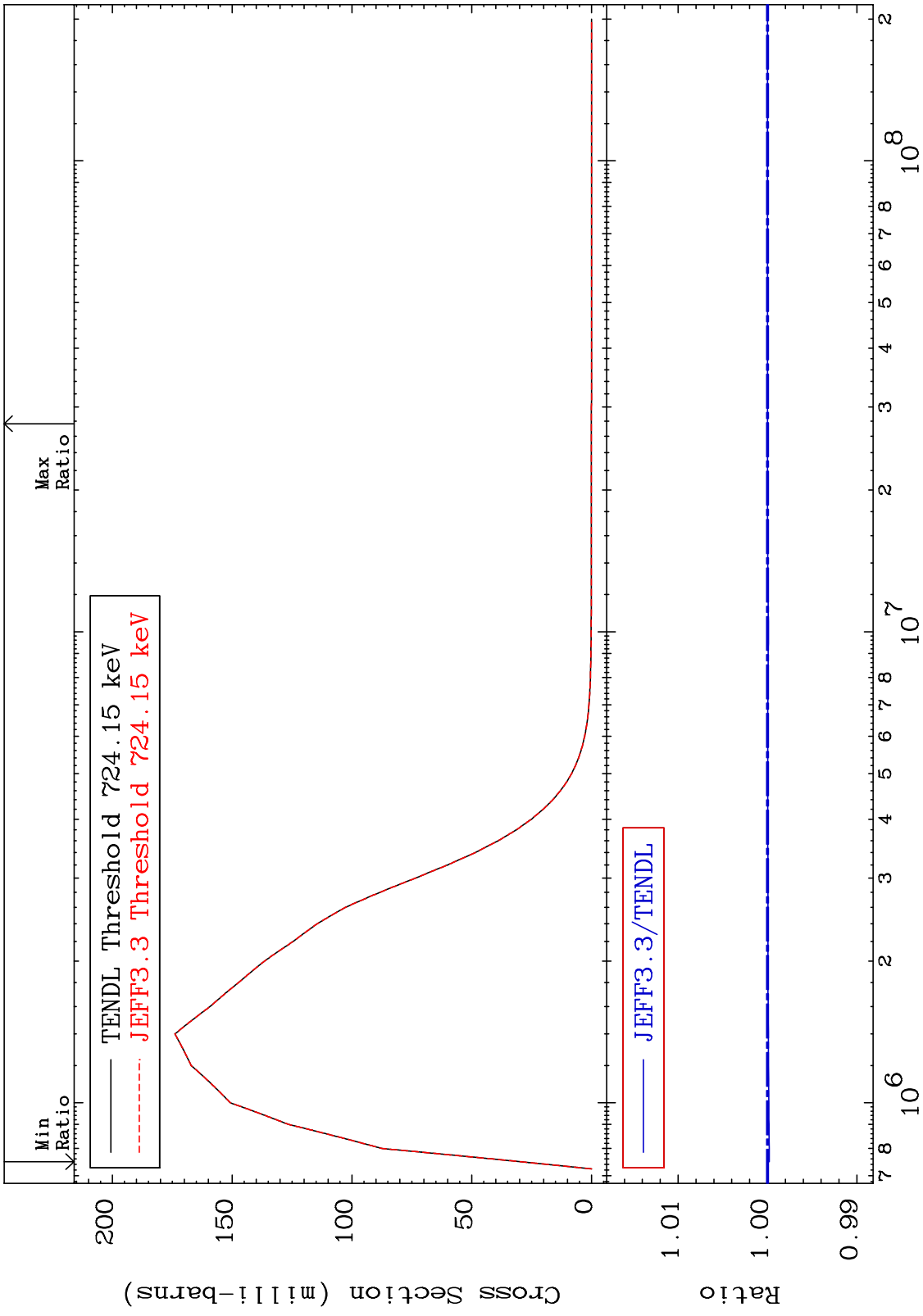
MAT 3131 MT= 52 (n,n') Level Cross Section 31-Ga-71 -0.020 To 0.000 %



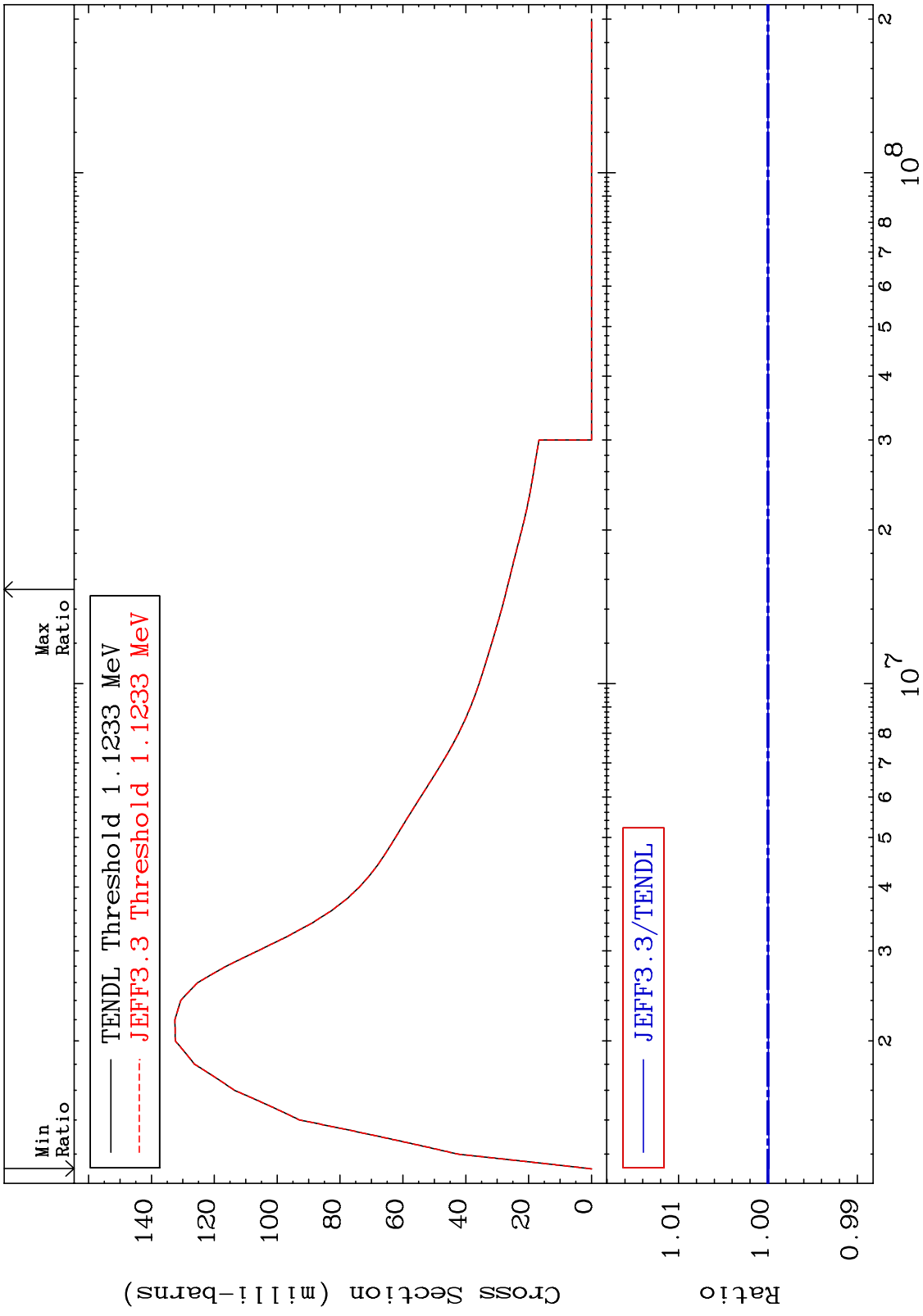
MAT 3131 MT= 53 (n,n') Level Cross Section 31-Ga-71 -0.317 To 0.000 %



MAT 3131 MT= 54 (n,n') Level Cross Section 31-Ga-71 -0.020 To 0.000 %



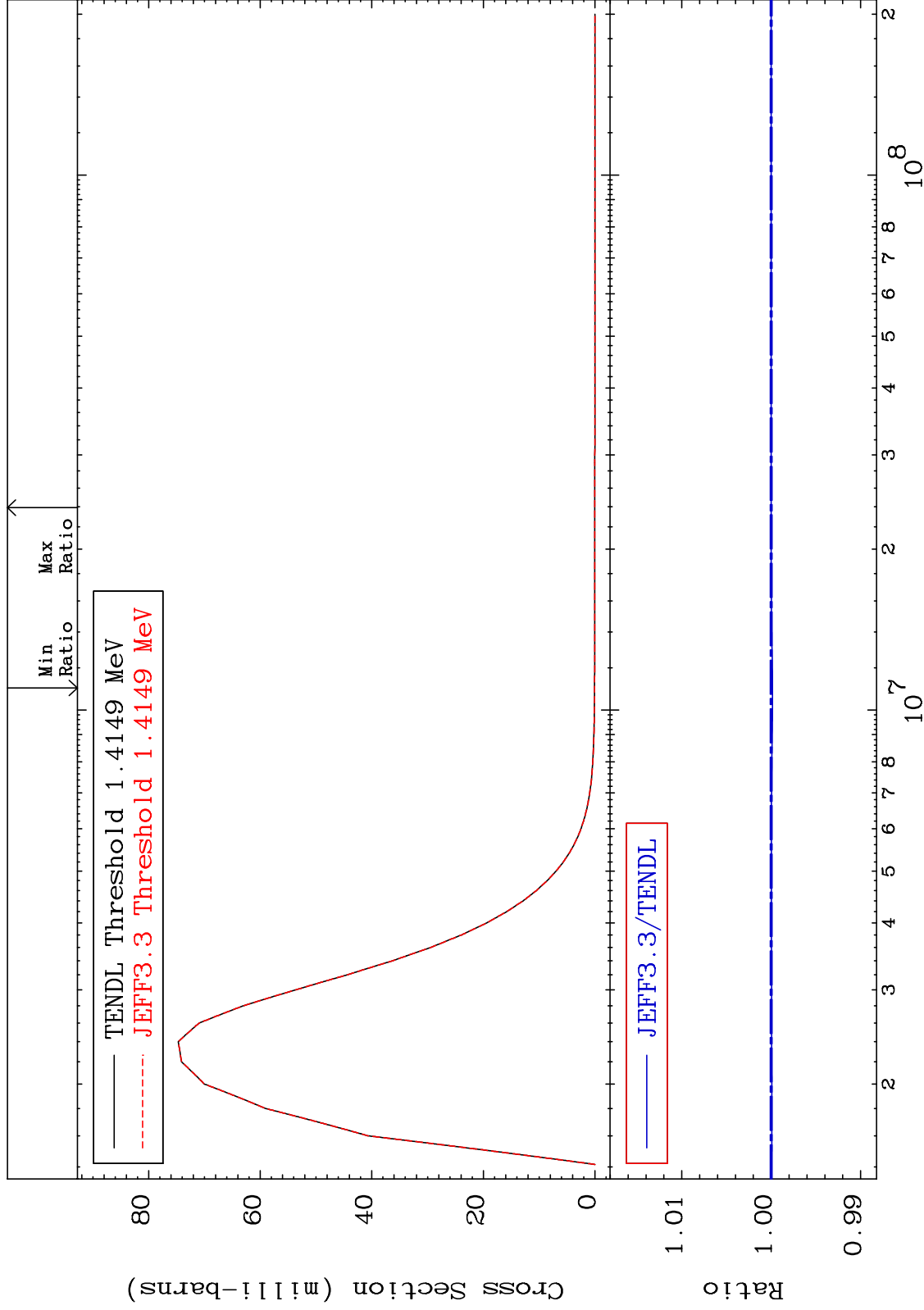
MAT 3131 MT= 57 (n,n') Level Cross Section 31-Ga-71 -0.011 To 0.000 %



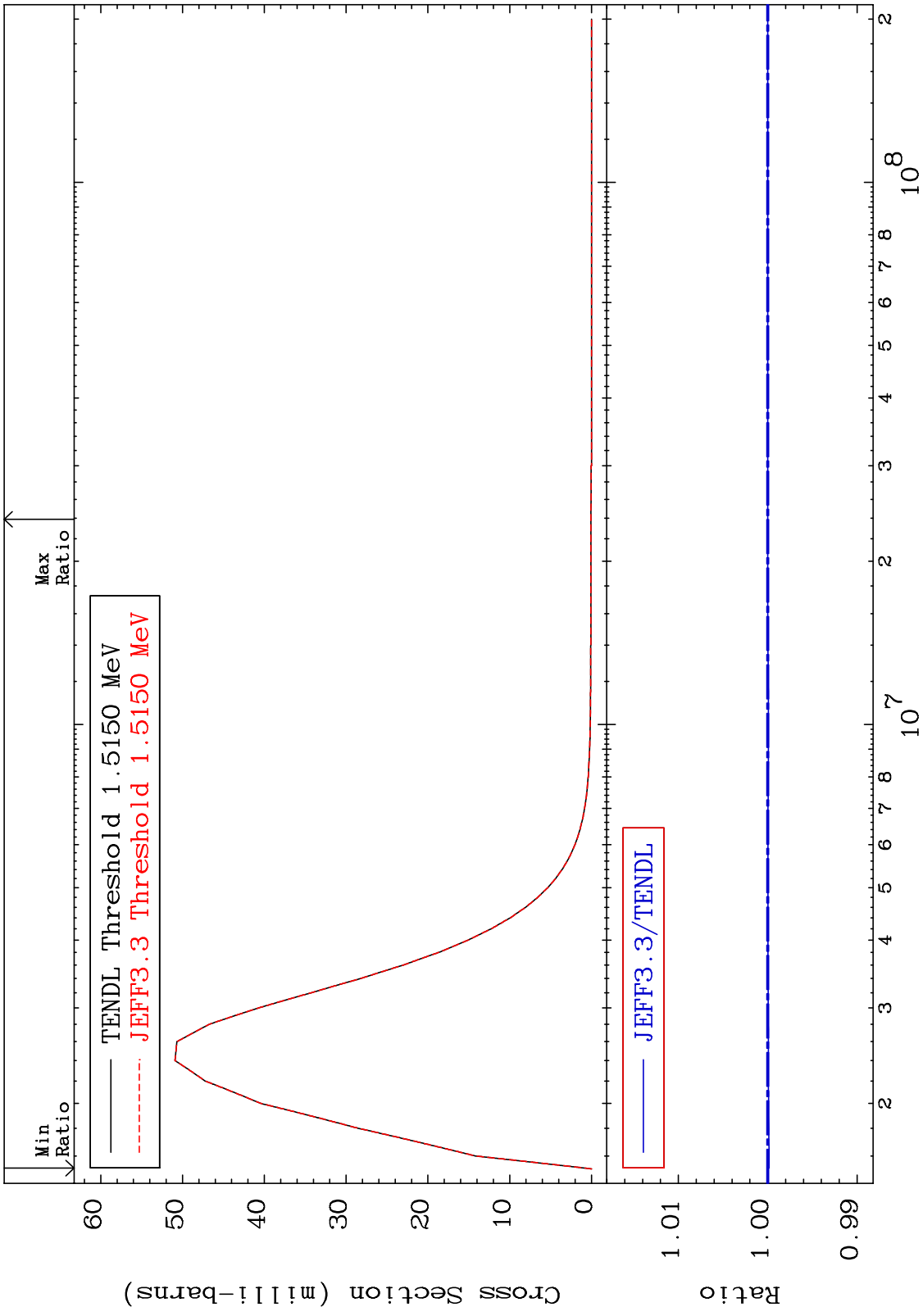
MAT 3131

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

31-Ga-71
-0.015 To 0.000 %



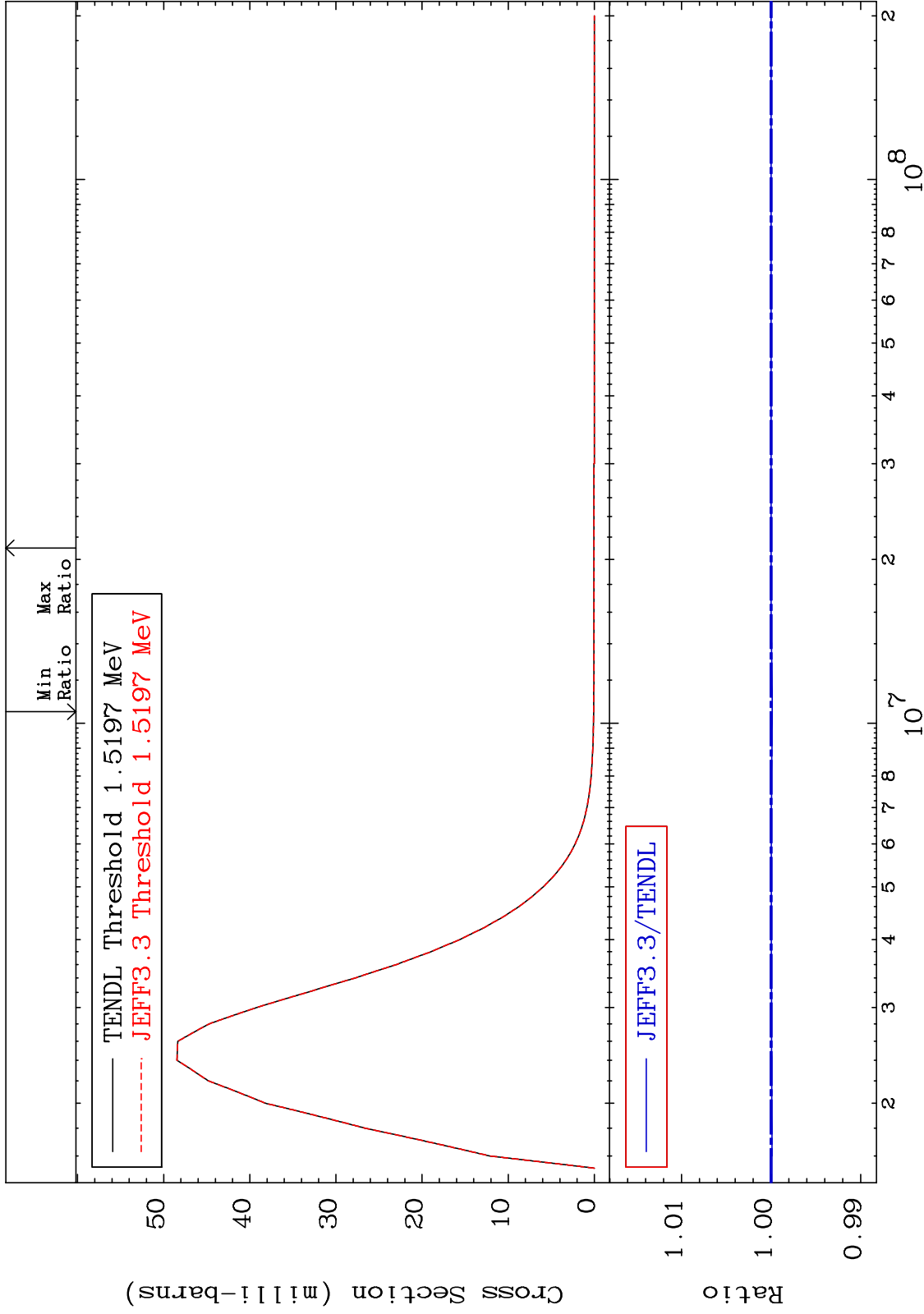
MAT 3131 MT= 61 (n,n') Level Cross Section 31-Ga-71
 -0.015 To 0.000 %



MAT 3131

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

31-Ga-71
-0.013 To 0.000 %



27

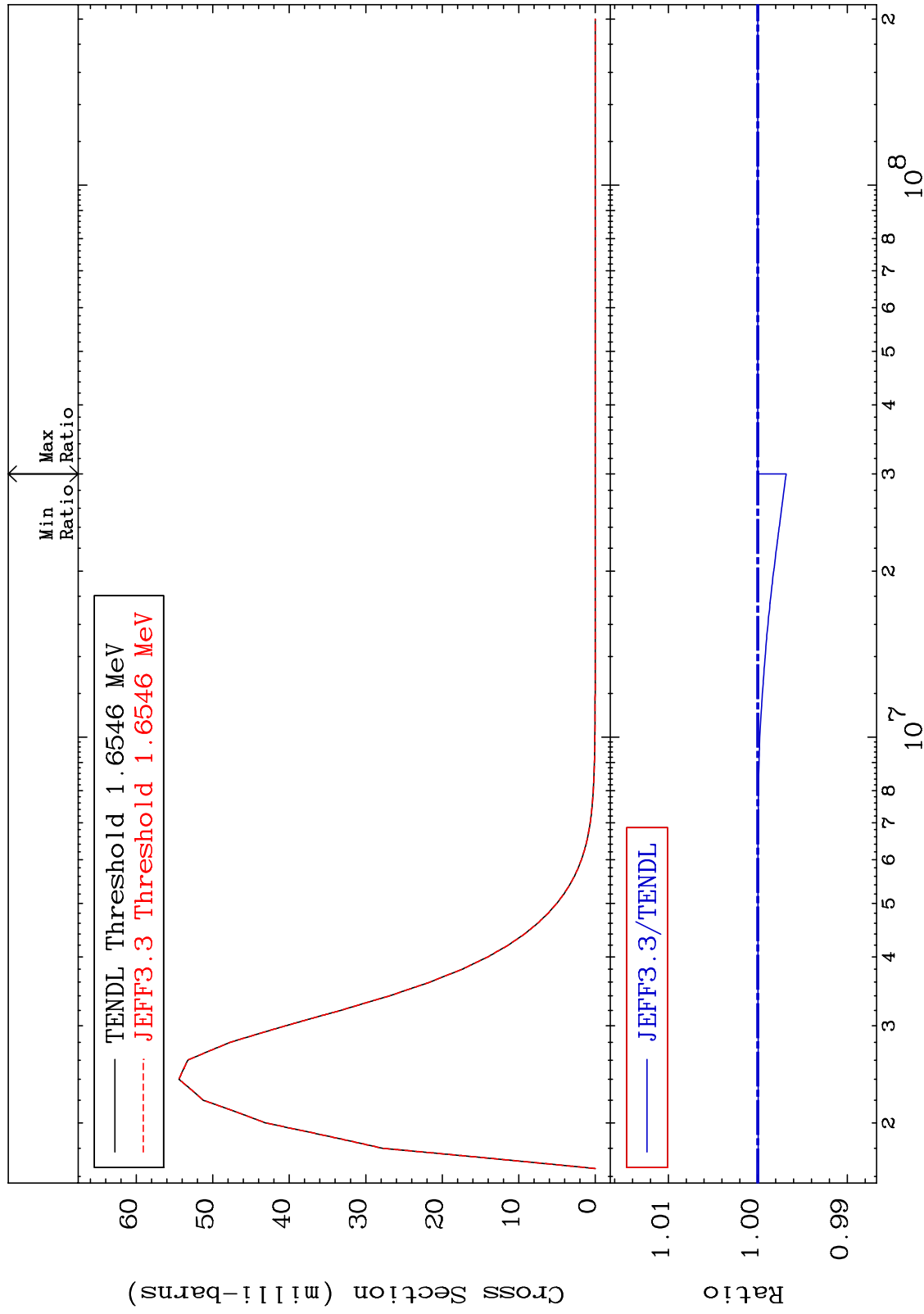
Incident Energy (eV)

31-Ga-71

MAT 3131

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

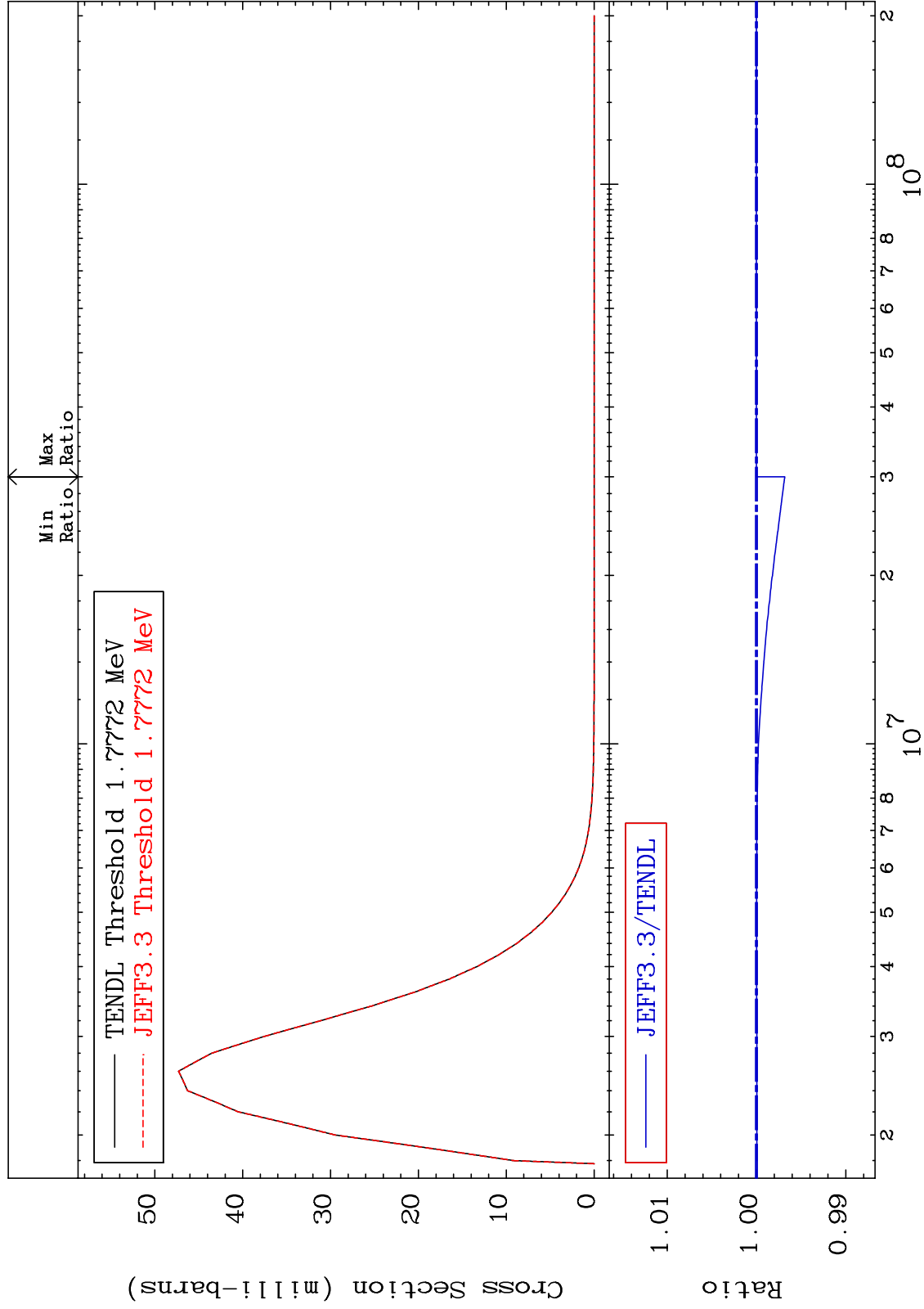
31-Ga-71
-0.317 To 0.000 %



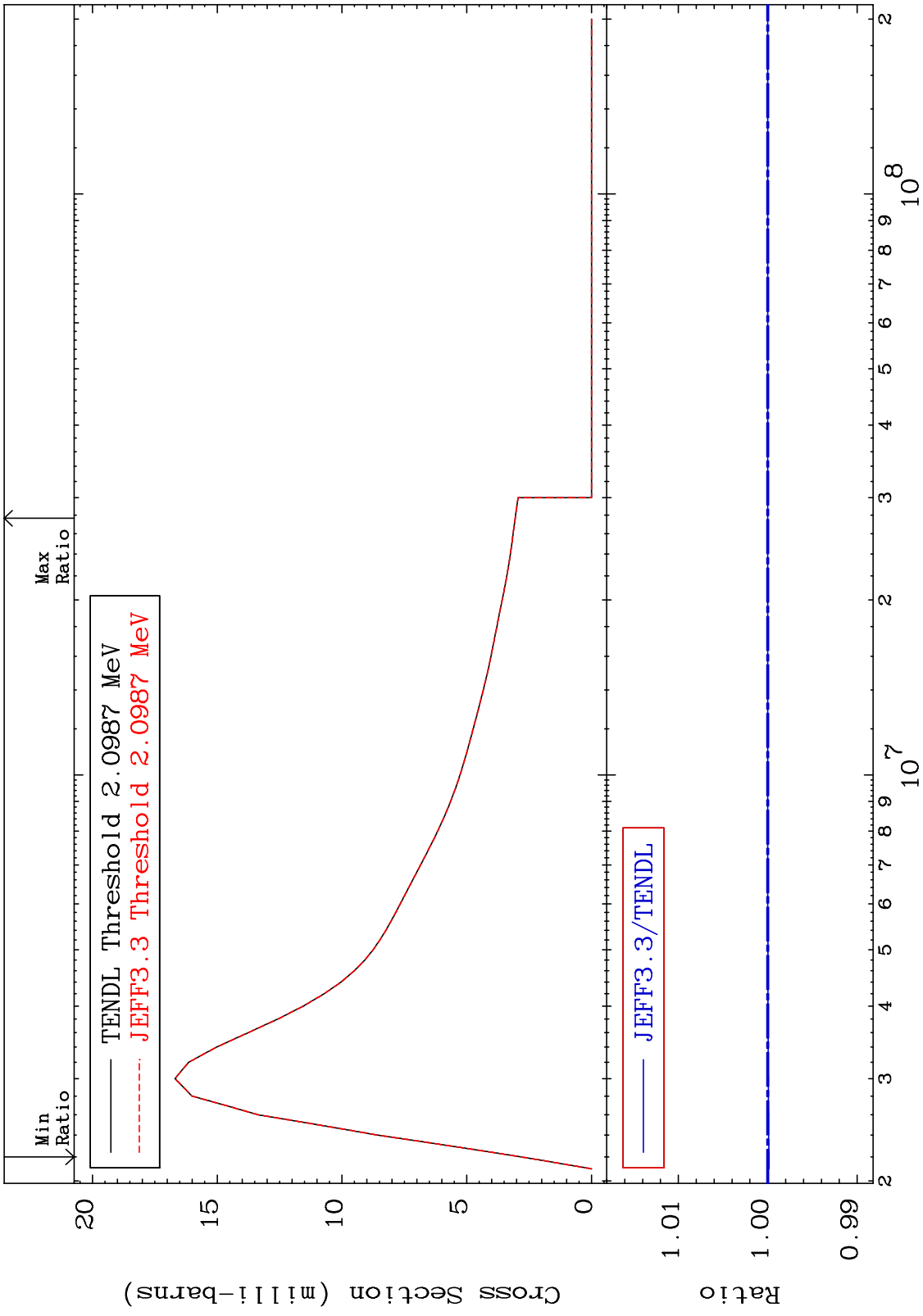
MAT 3131

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

31-Ga-71
-0.317 To 0.000 %



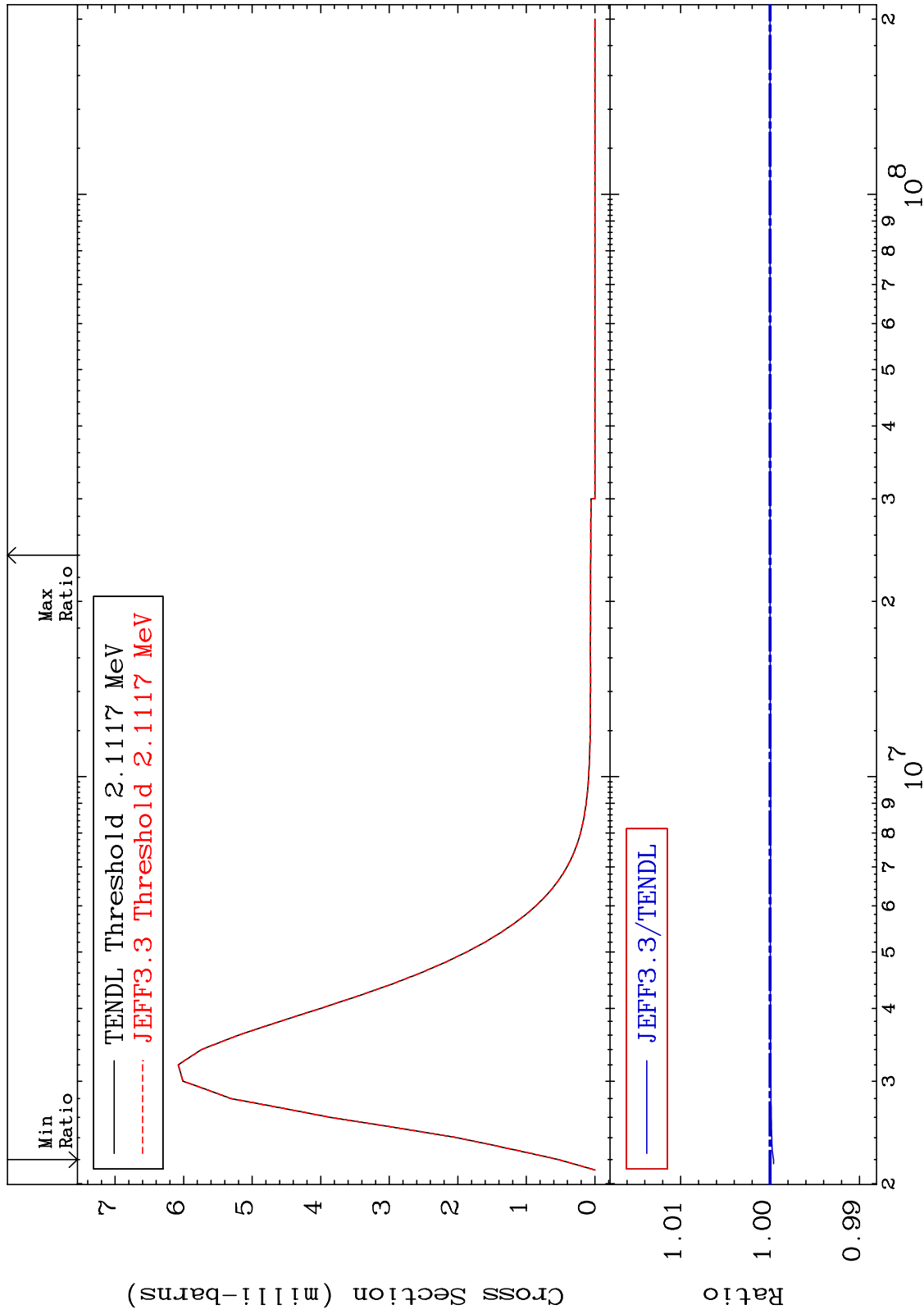
MAT 3131 MT= 71 (n,n') Level Cross Section 31-Ga-71 -0.015 To 0.000 %



MAT 3131

MT= 72 (n,n') Level
Cross Section

31-Ga-71
-0.040 To 0.000 %



31

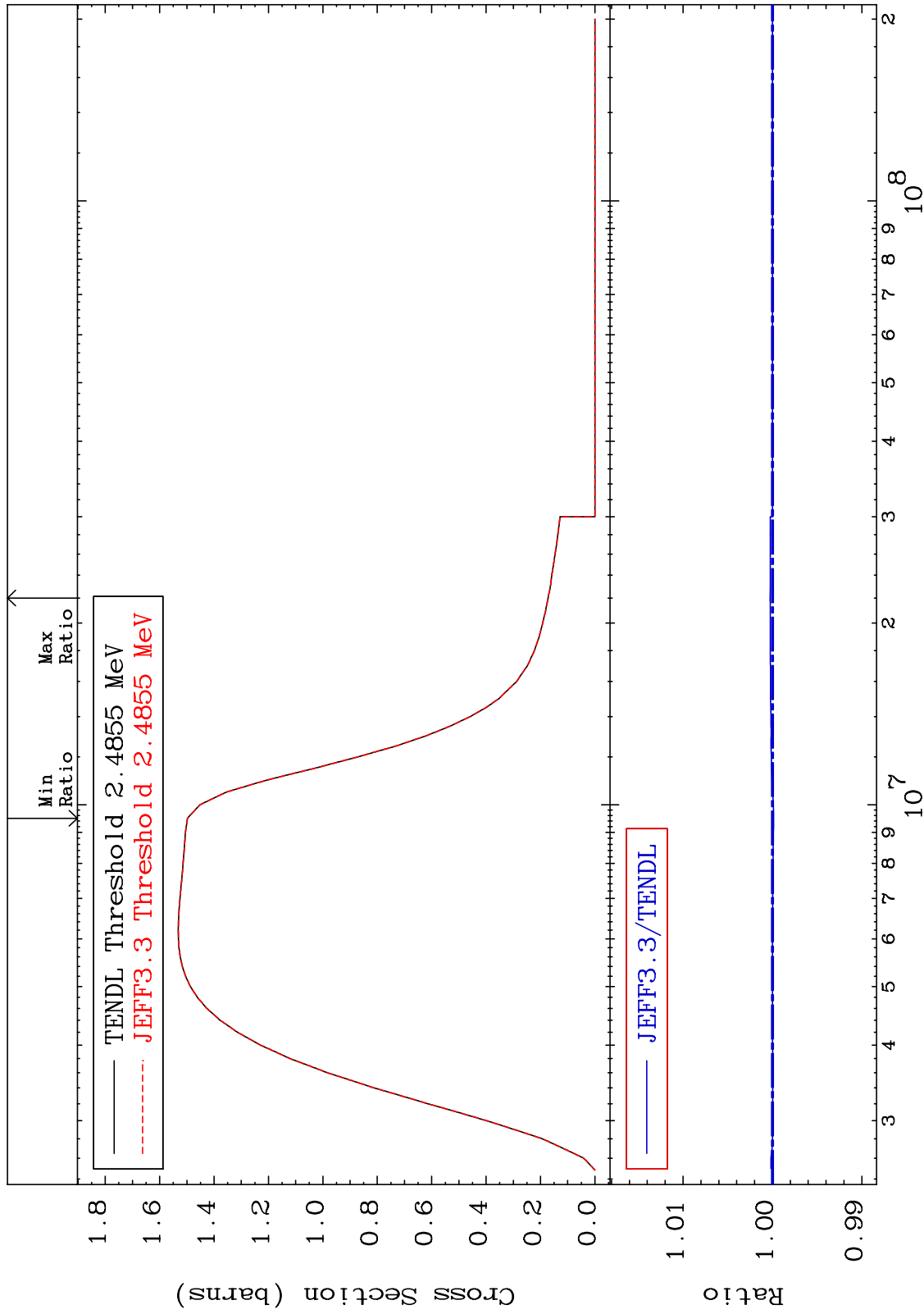
Incident Energy (eV)

31-Ga-71

MAT 3131

(n, n') Continuum
Cross Section

31-Ga-71
-0.013 To 0.026 %



32

Incident Energy (eV)

31-Ga-71

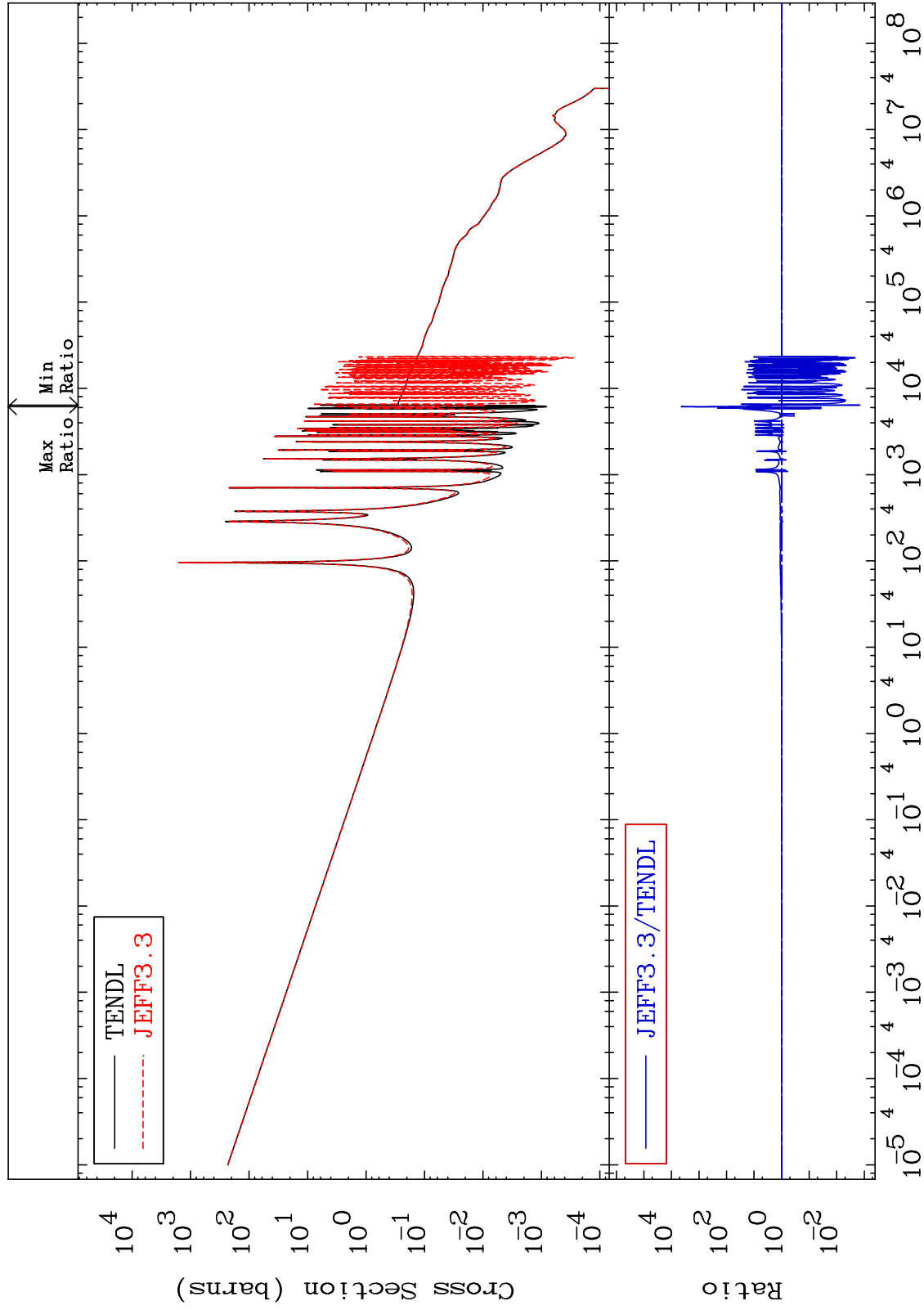
MAT 3131

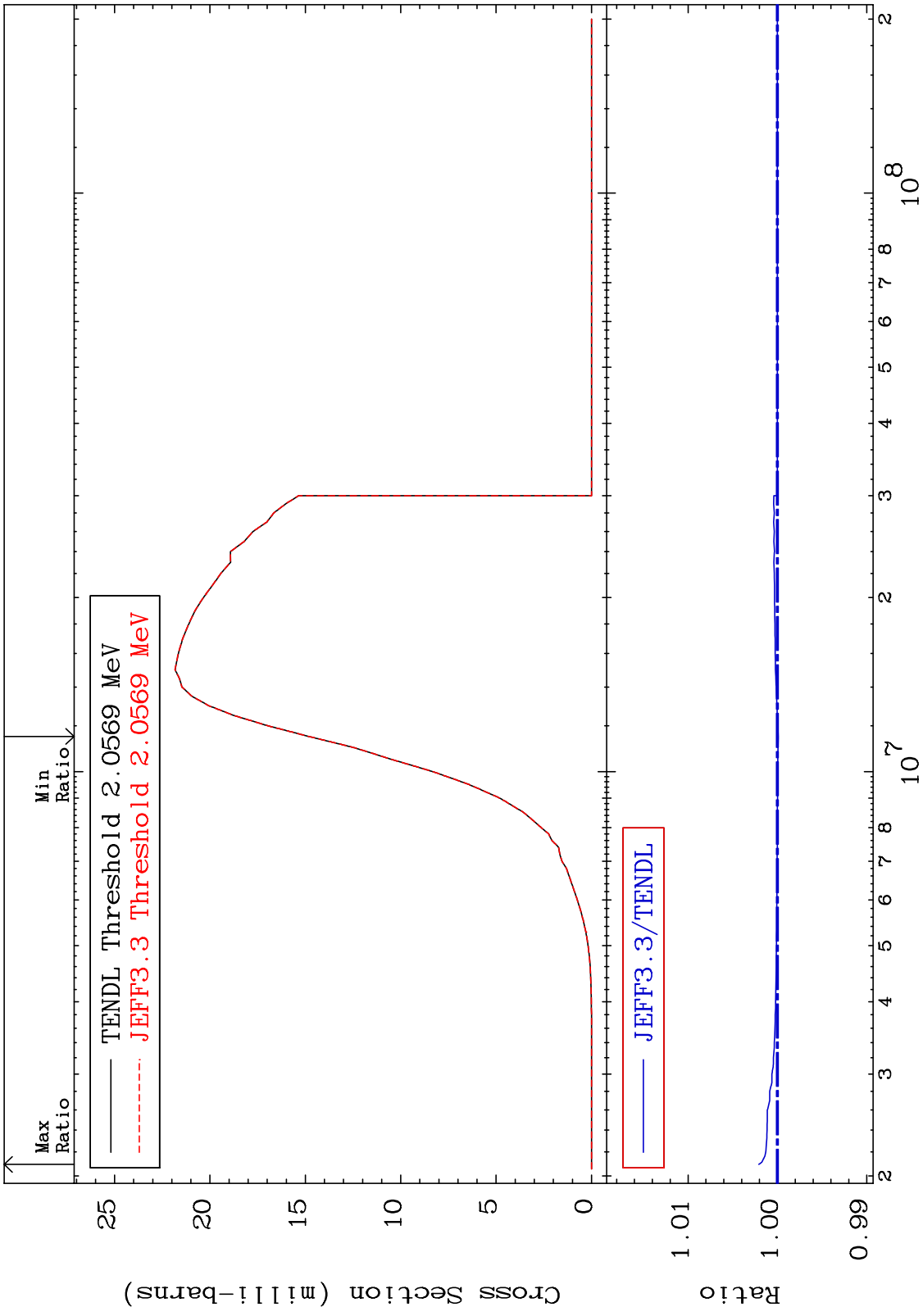
(n, γ)

31-Ga-71

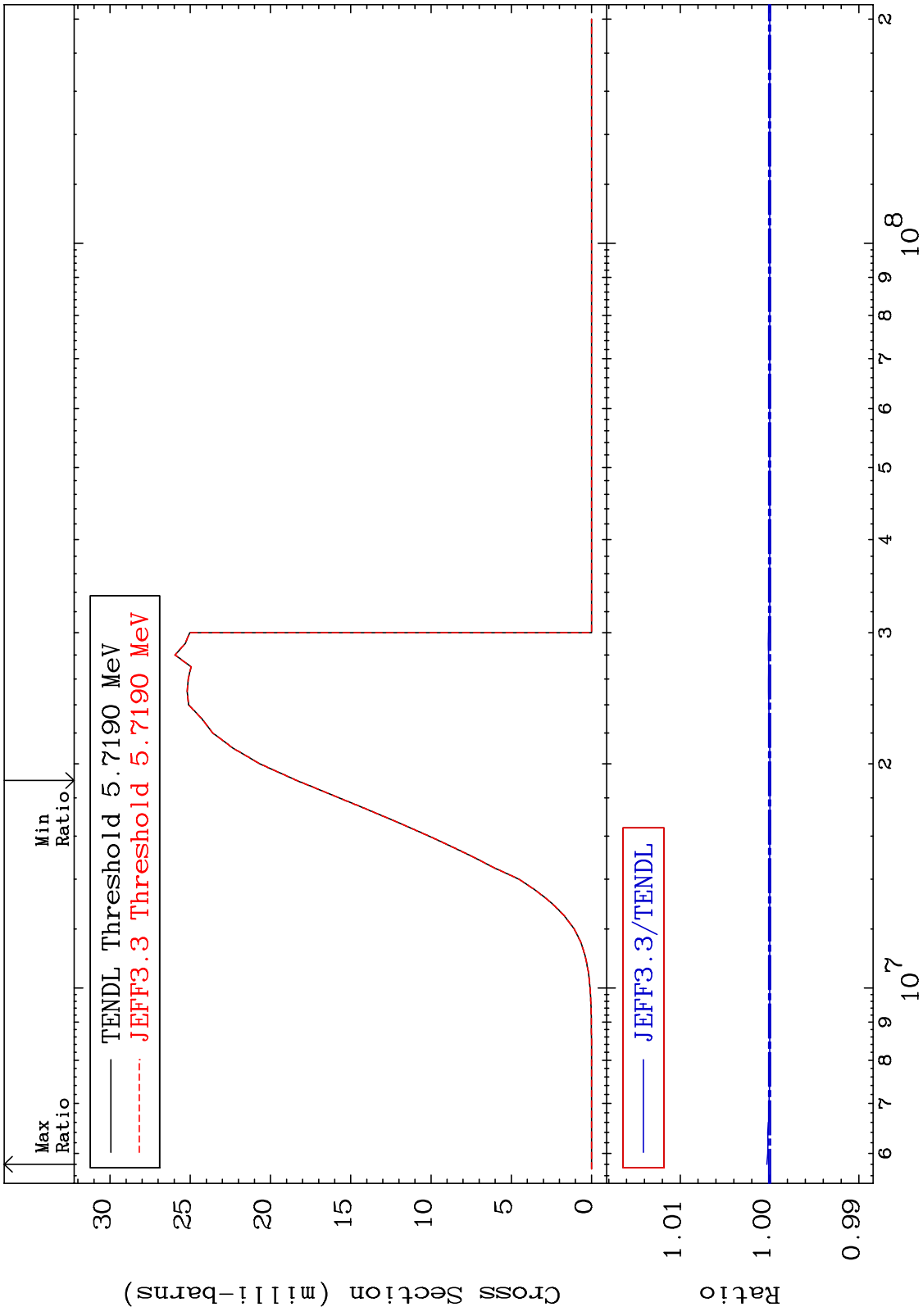
Cross Section

-99.85 To 9999. %





MAT 3131 (n,d) 31-Ga-71
 Cross Section -0.004 To 0.030 %



35 31-Ga-71

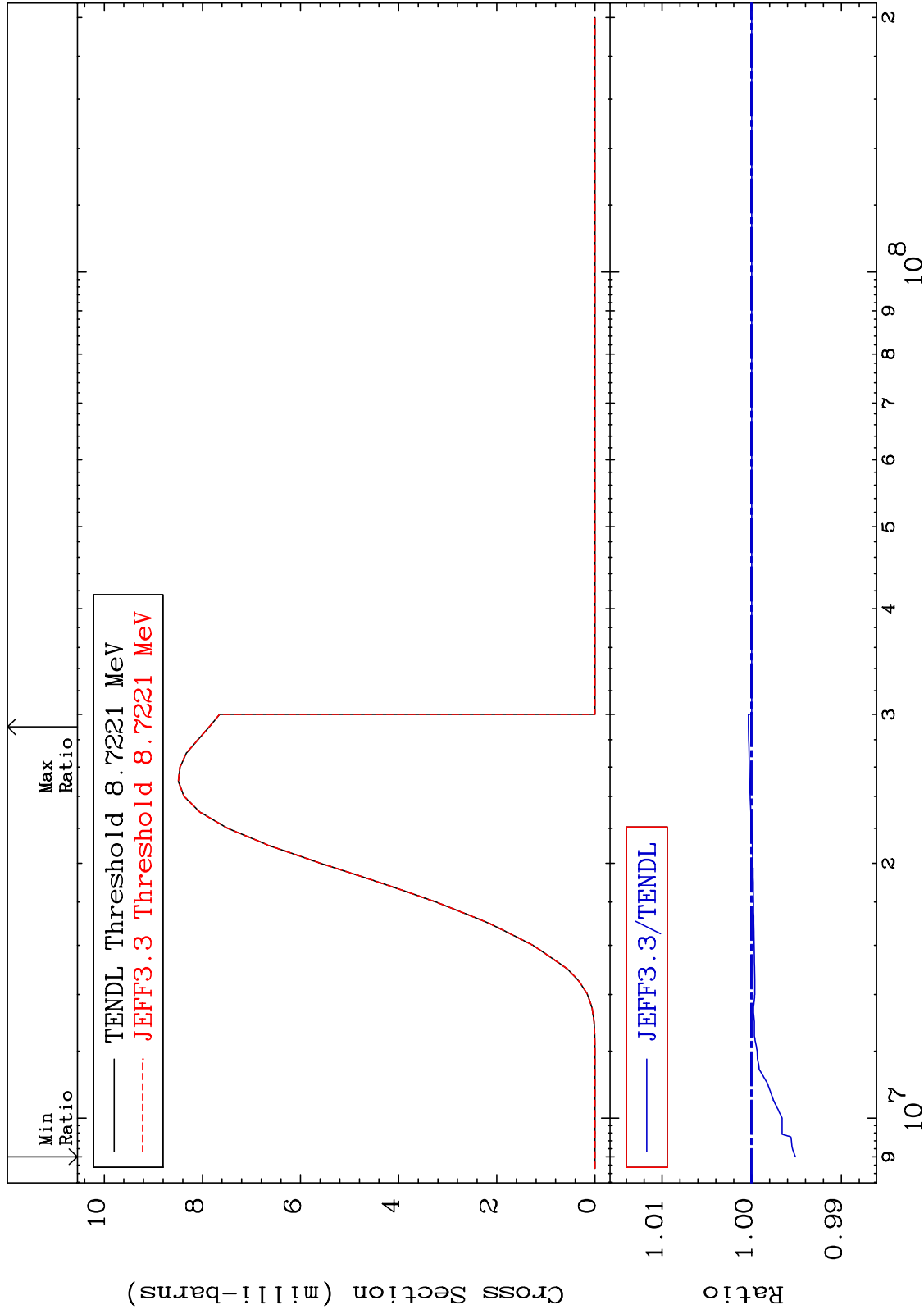
MAT 3131

(n, t)

31-Ga-71

-0.487 To 0.038 %

Cross Section



36

Incident Energy (eV)

31-Ga-71

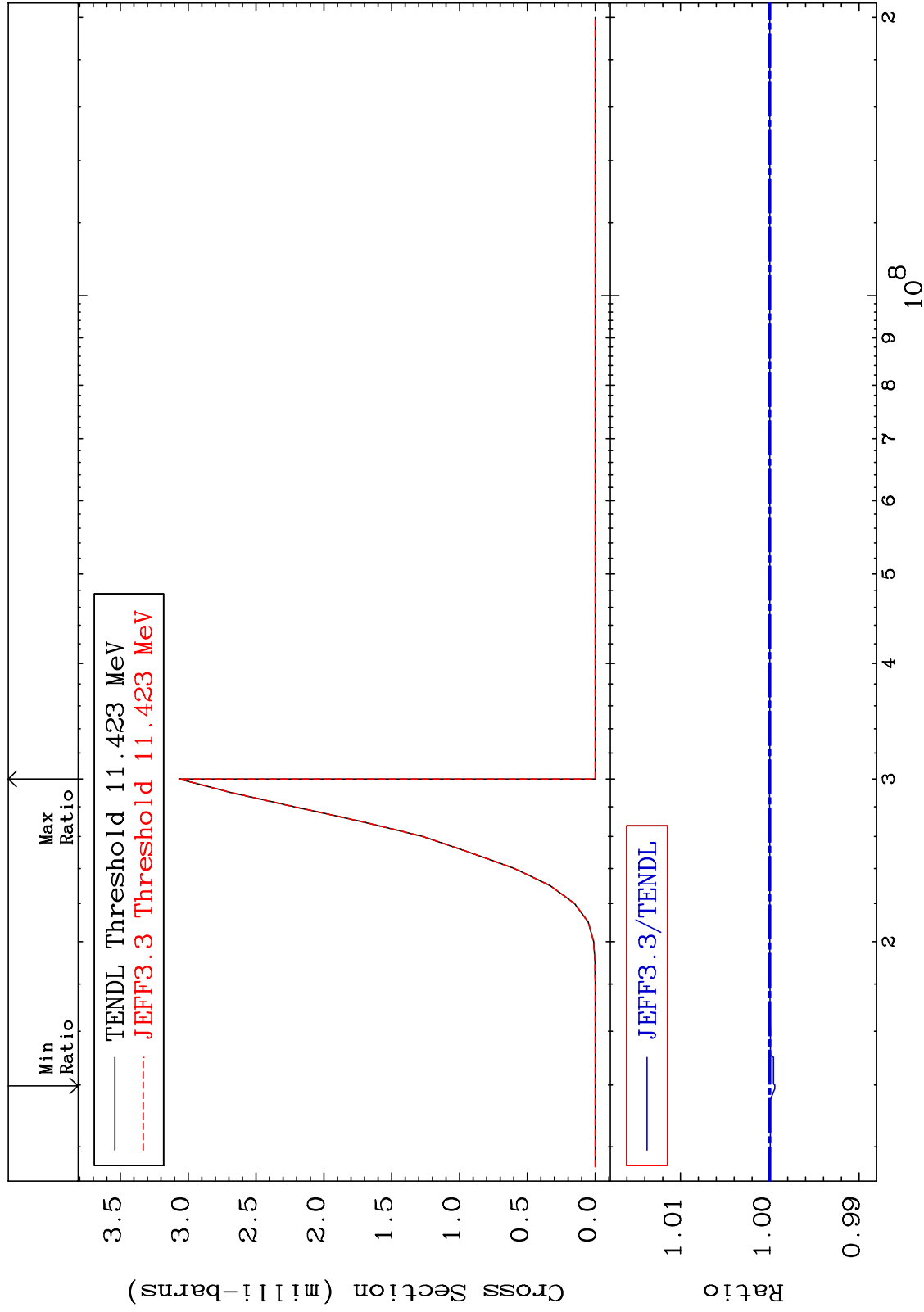
MAT 3131

(n, He-3)

31-Ga-71

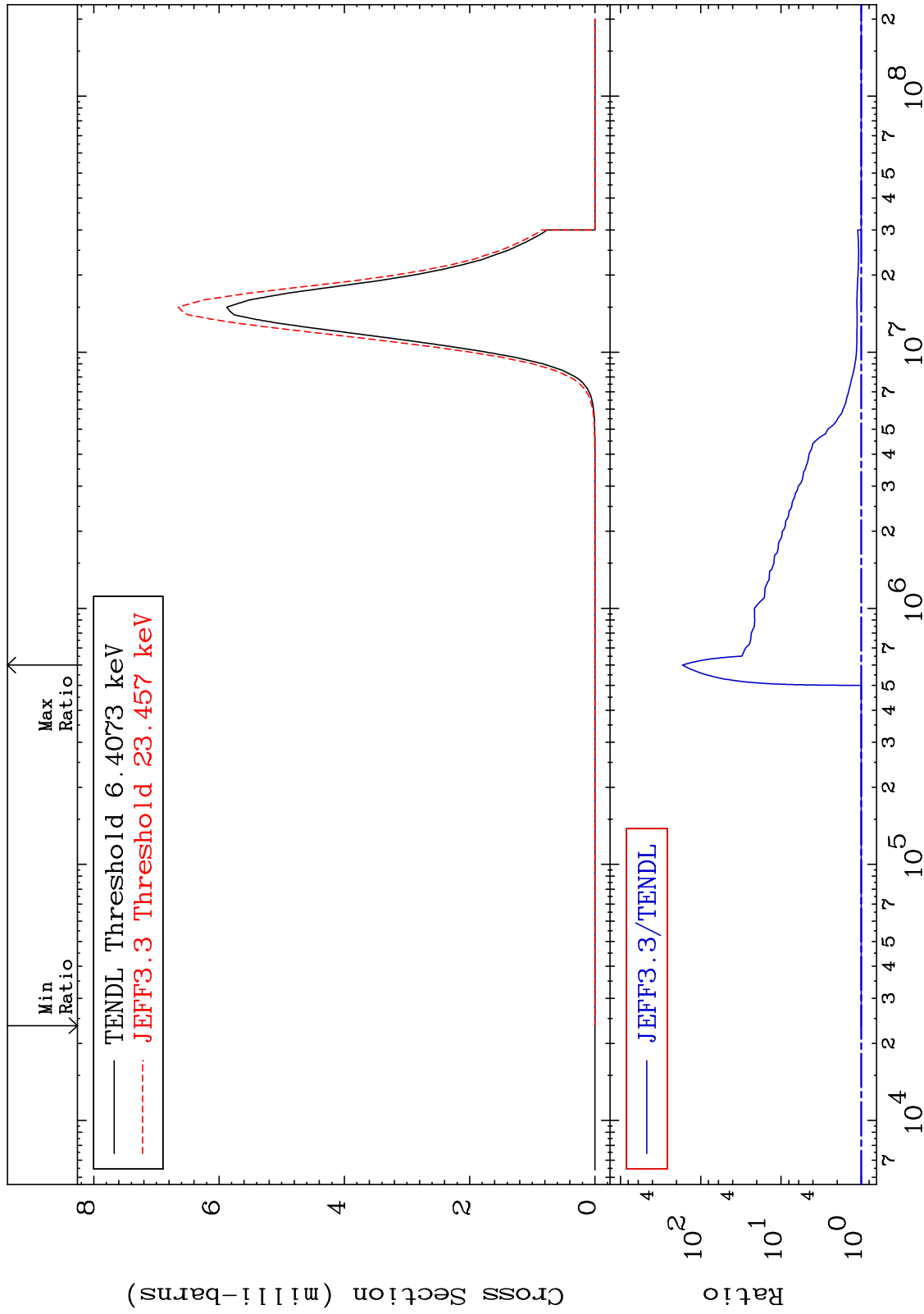
Cross Section

-0.055 To 0.007 %



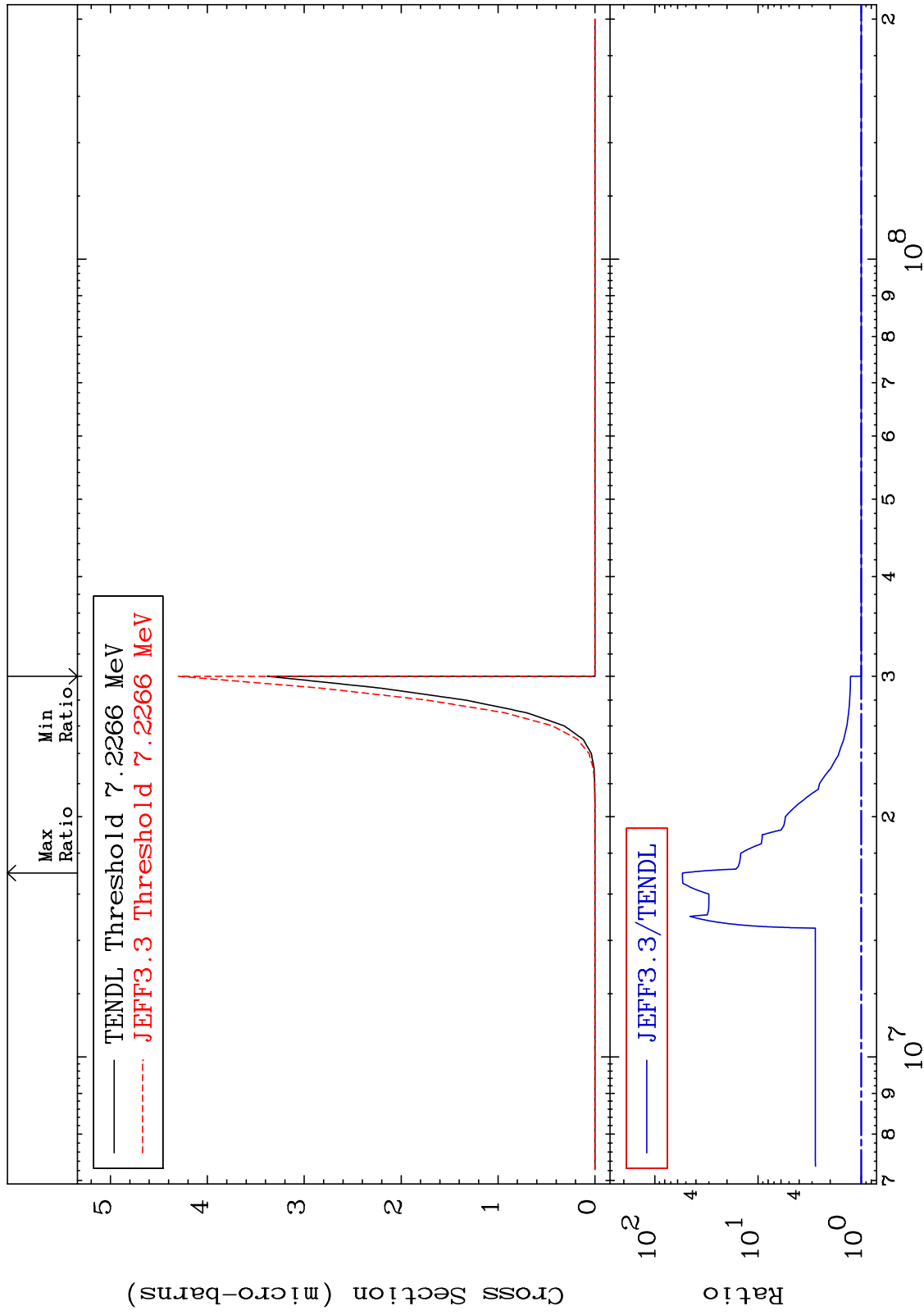
MAT 3131

(n, α) Cross Section 31-Ga-71 To 9999. %



MAT 3131

(n,2α) Cross Section 31-Ga-71
0.000 To 5293. %



39

Incident Energy (eV)

31-Ga-71

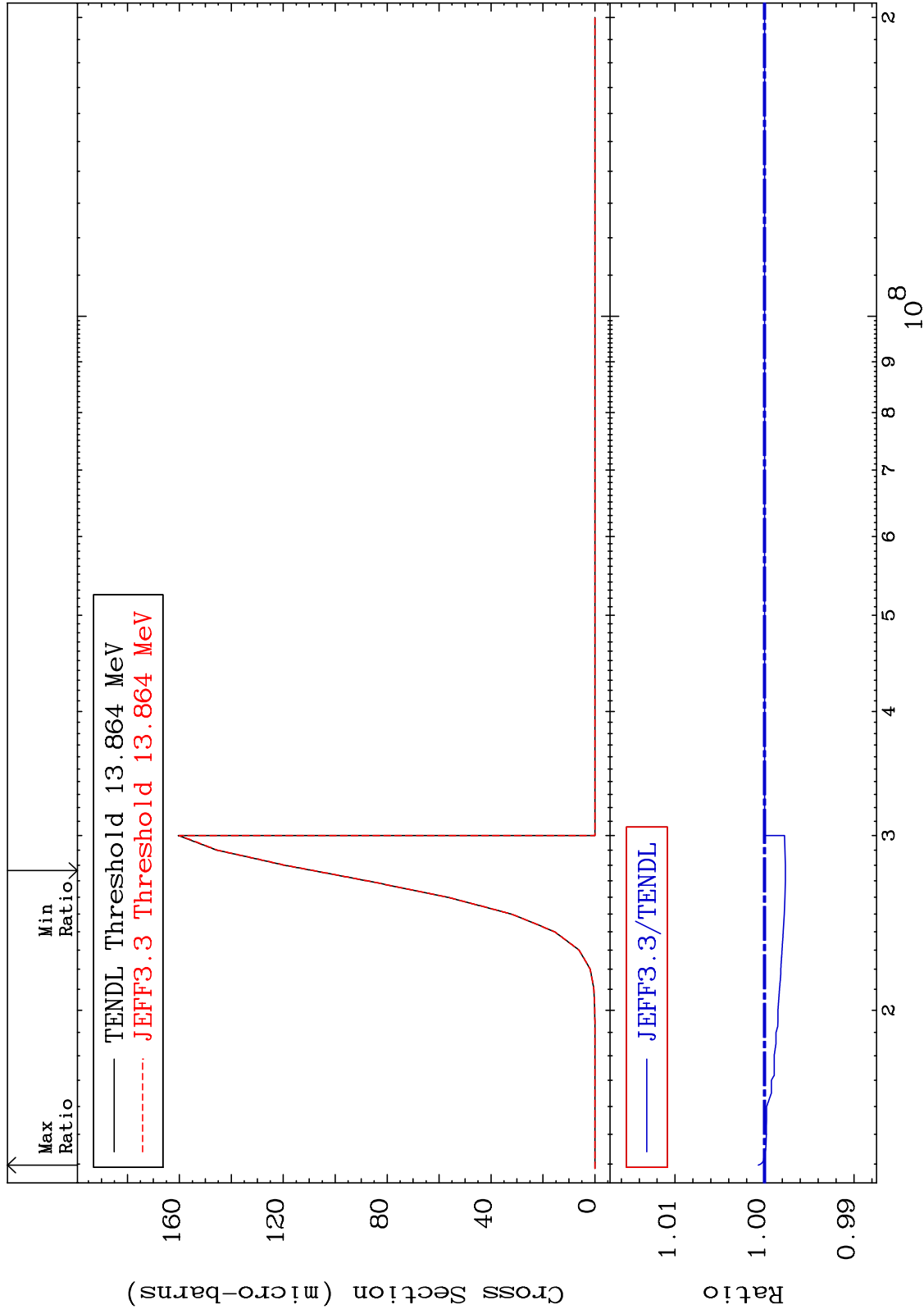
MAT 3131

(n,2p)

31-Ga-71

Cross Section

-0.233 To 0.069 %



40

Incident Energy (eV)

31-Ga-71

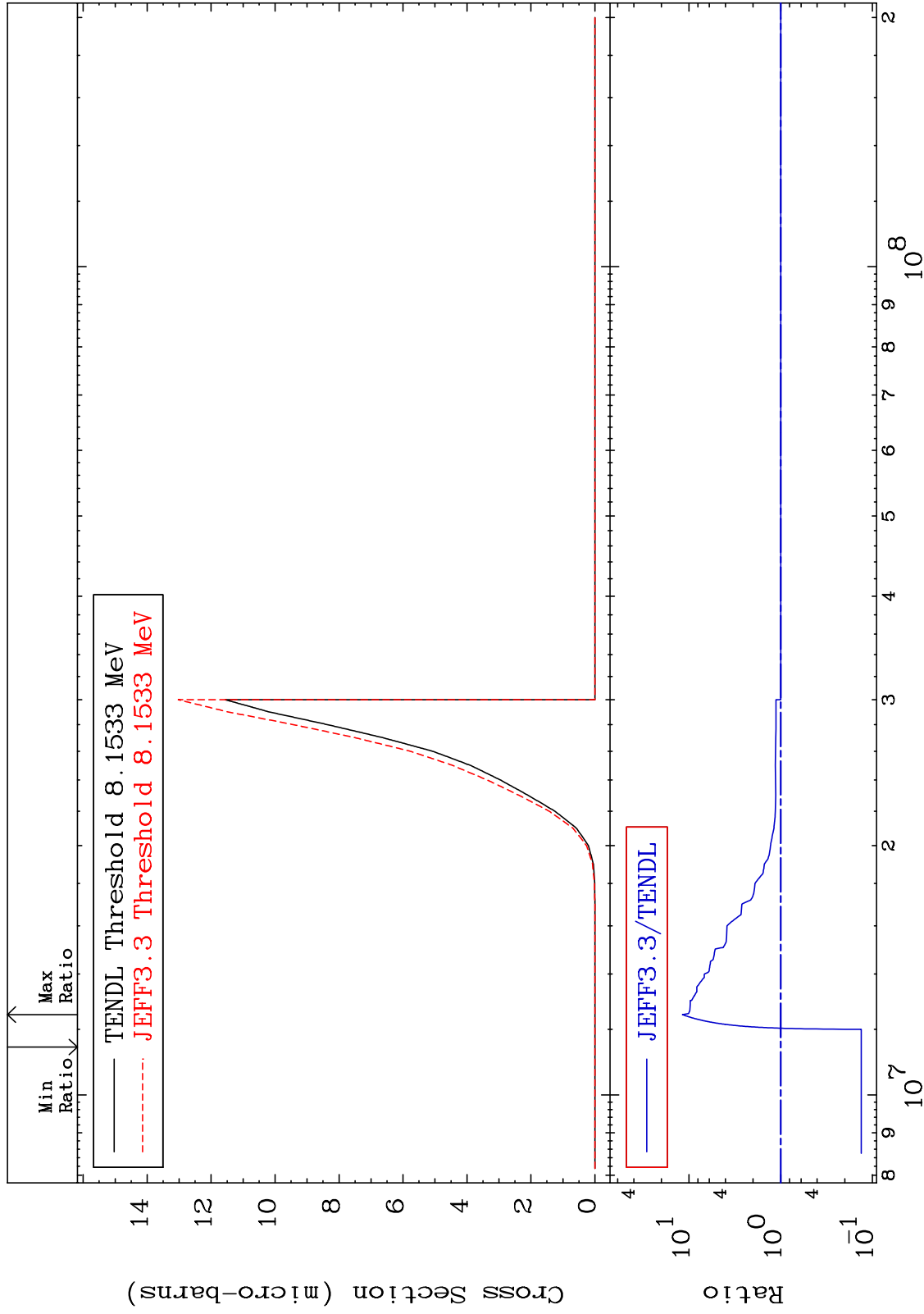
MAT 3131

(n,p) α

31-Ga-71

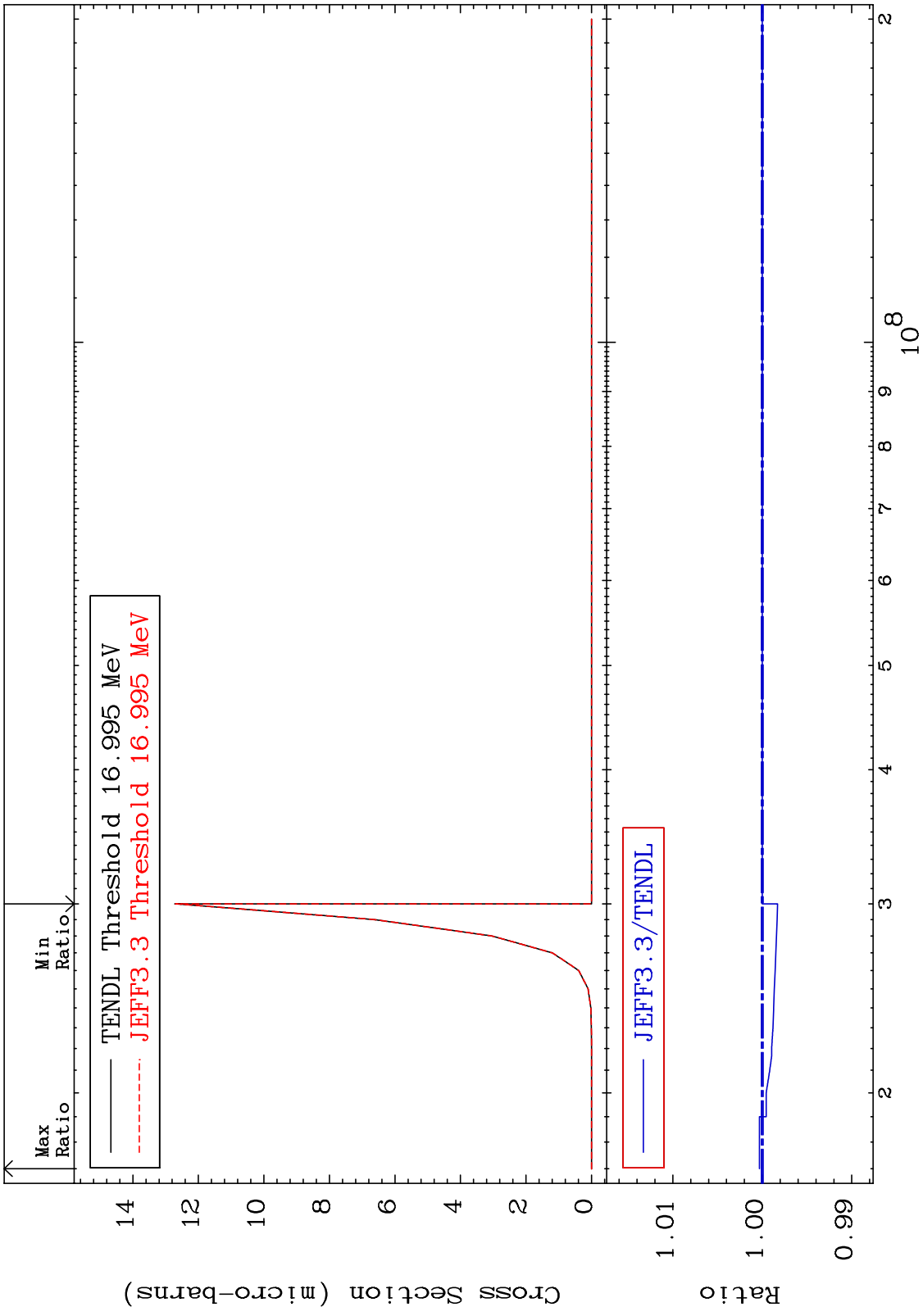
Cross Section

-86.78 To 1077. %

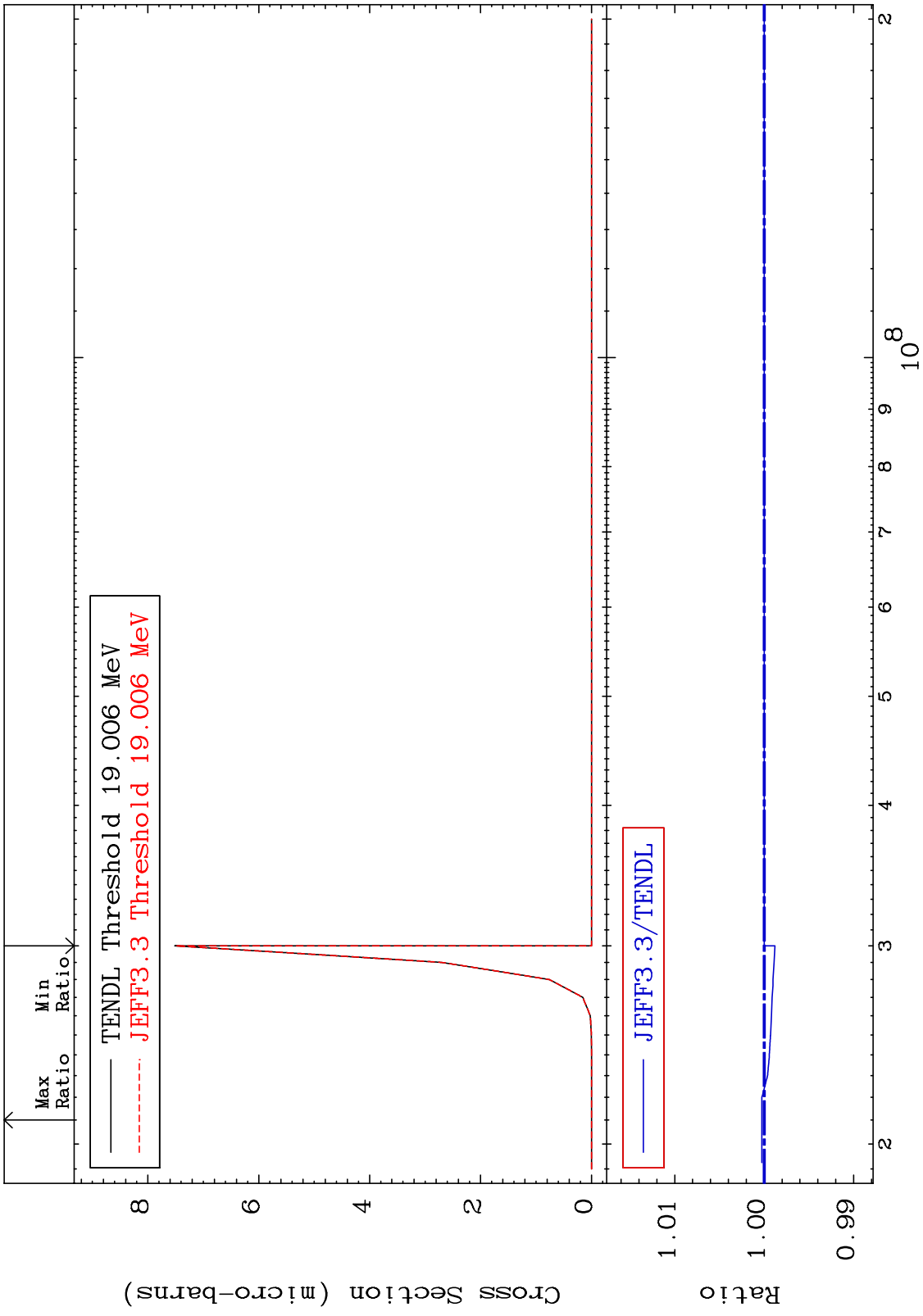


41

MAT 3131 (n,p) d 31-Ga-71
 Cross Section -0.171 To 0.033 %

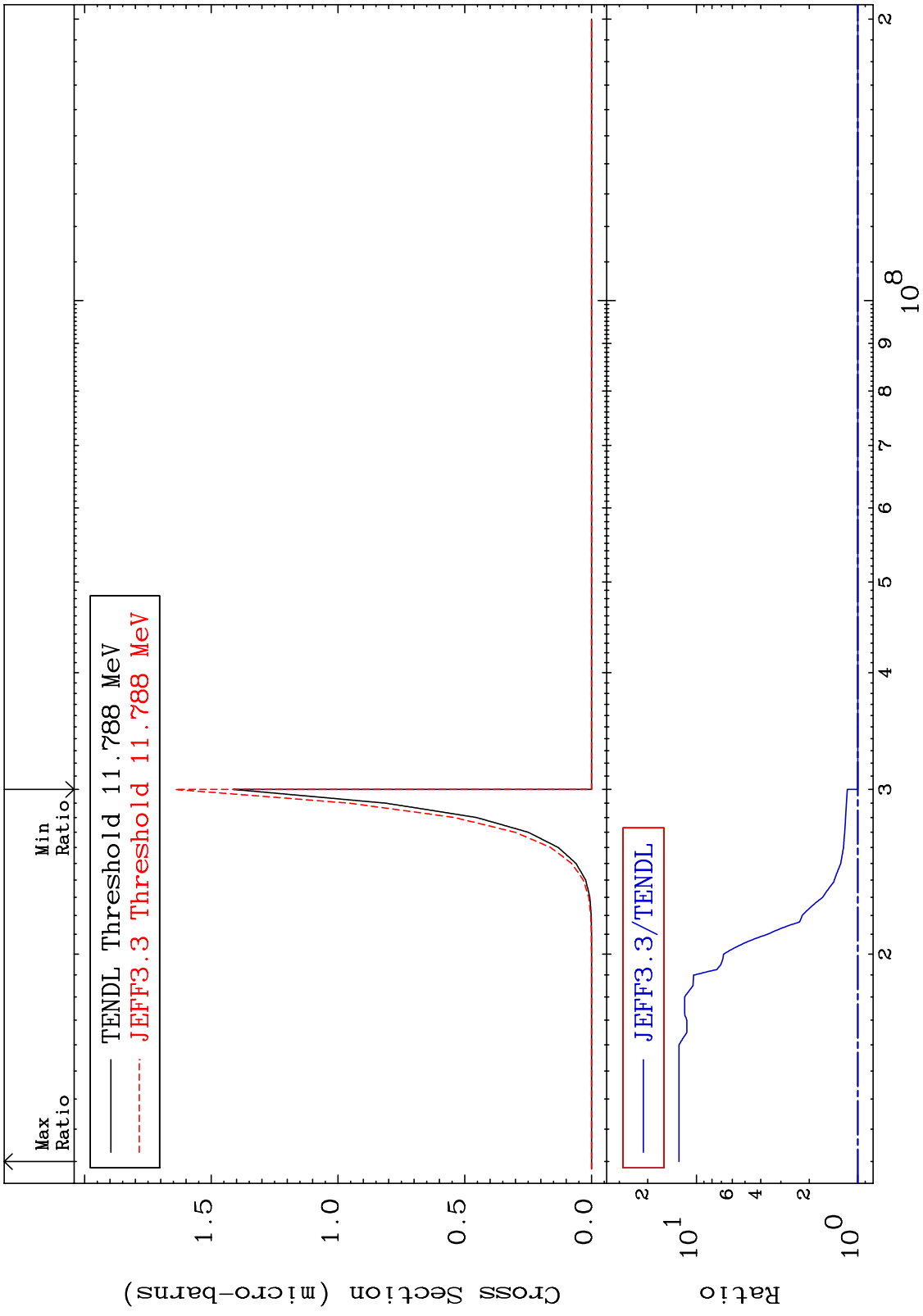


MAT 3131 (n,p) t 31-Ga-71
Cross Section -0.121 To 0.026 %



31-Ga-71

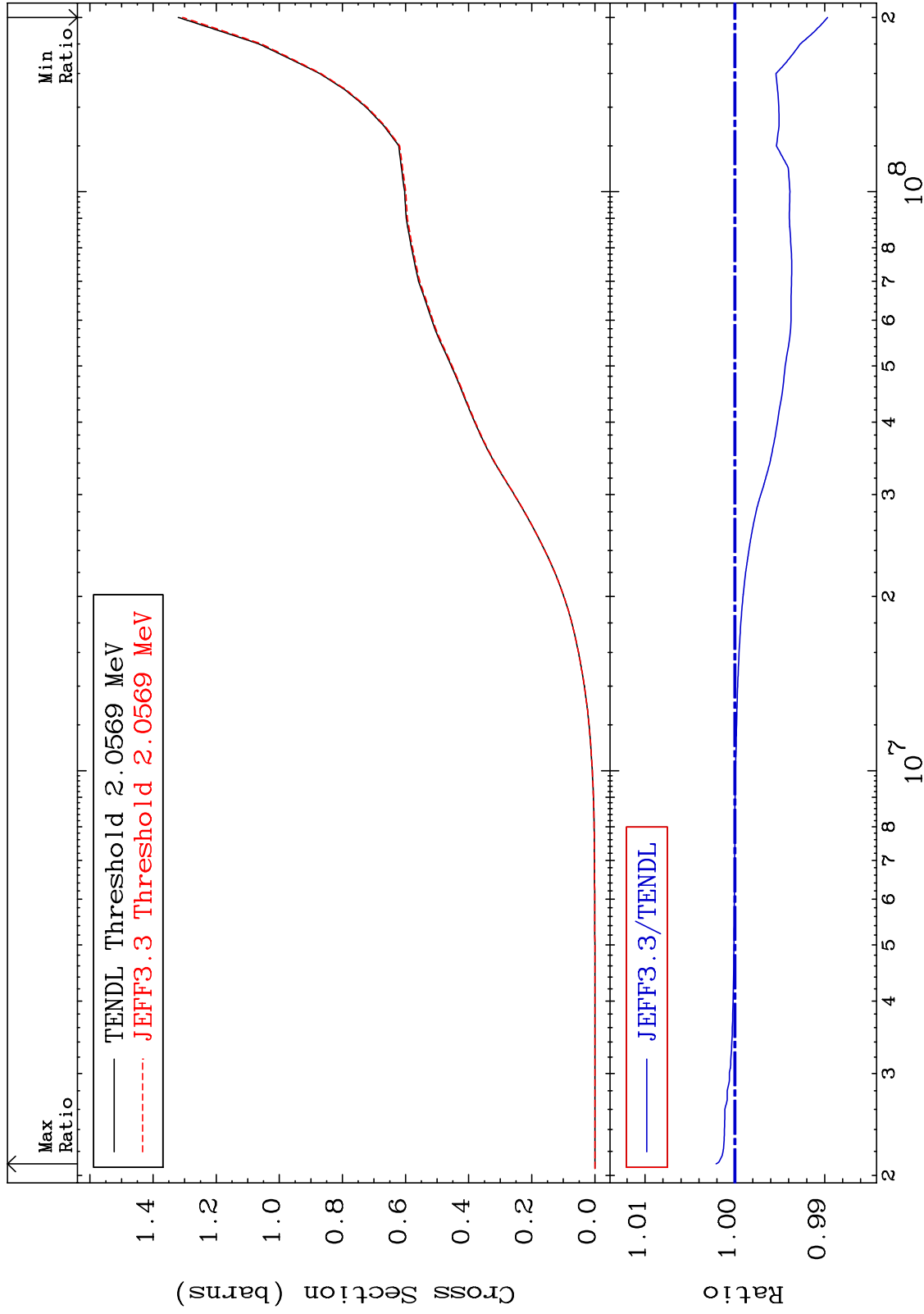
MAT 3131 (n,d) α 31-Ga-71
 Cross Section 0.000 To 1181. %



MAT 3131

Hydrogen Production
Cross Section

31-Ga-71
-1.033 To 0.209 %



45

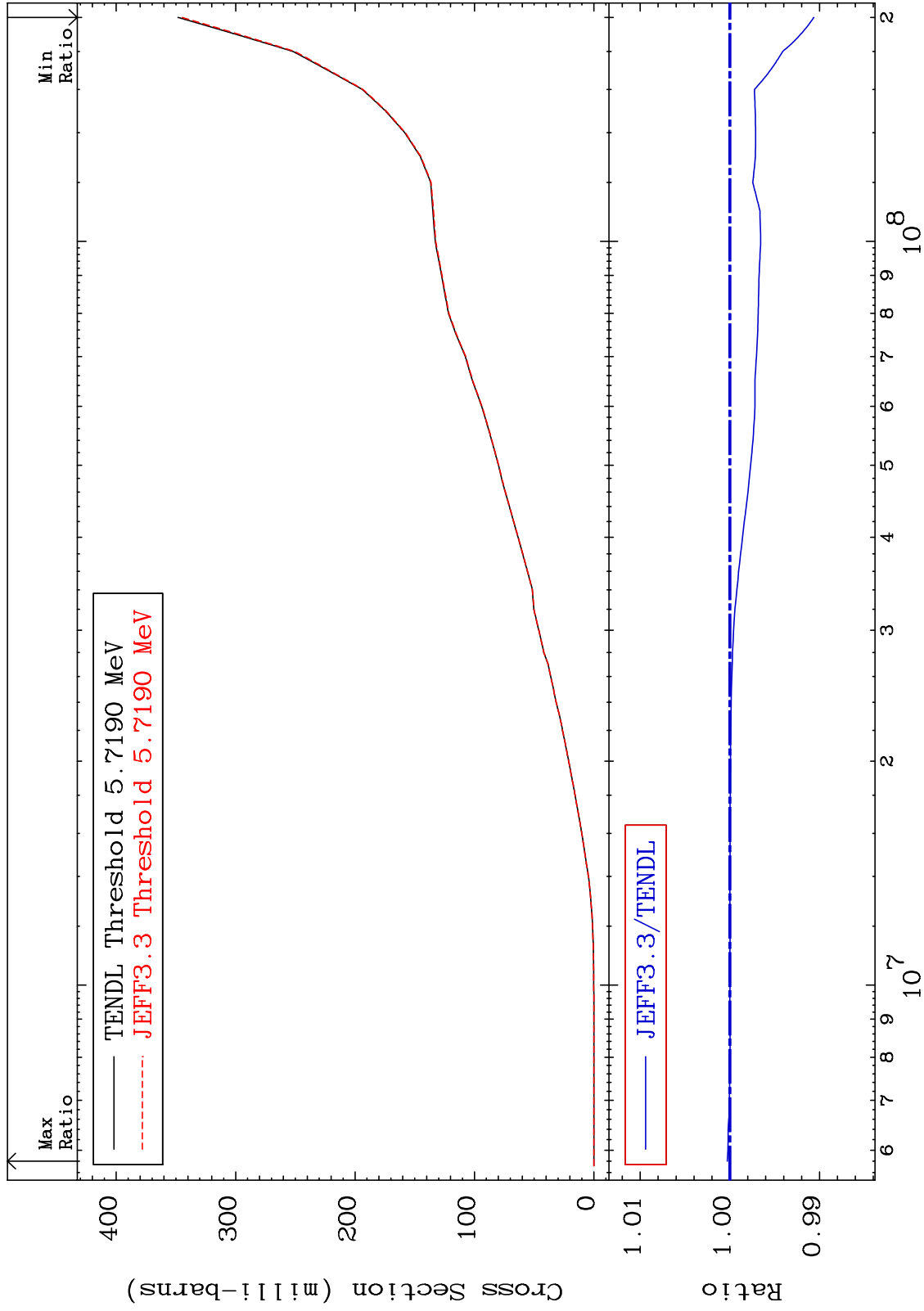
Incident Energy (eV)

31-Ga-71

MAT 3131

Deuterium Production
Cross Section

31-Ga-71
-0.937 To 0.030 %



46

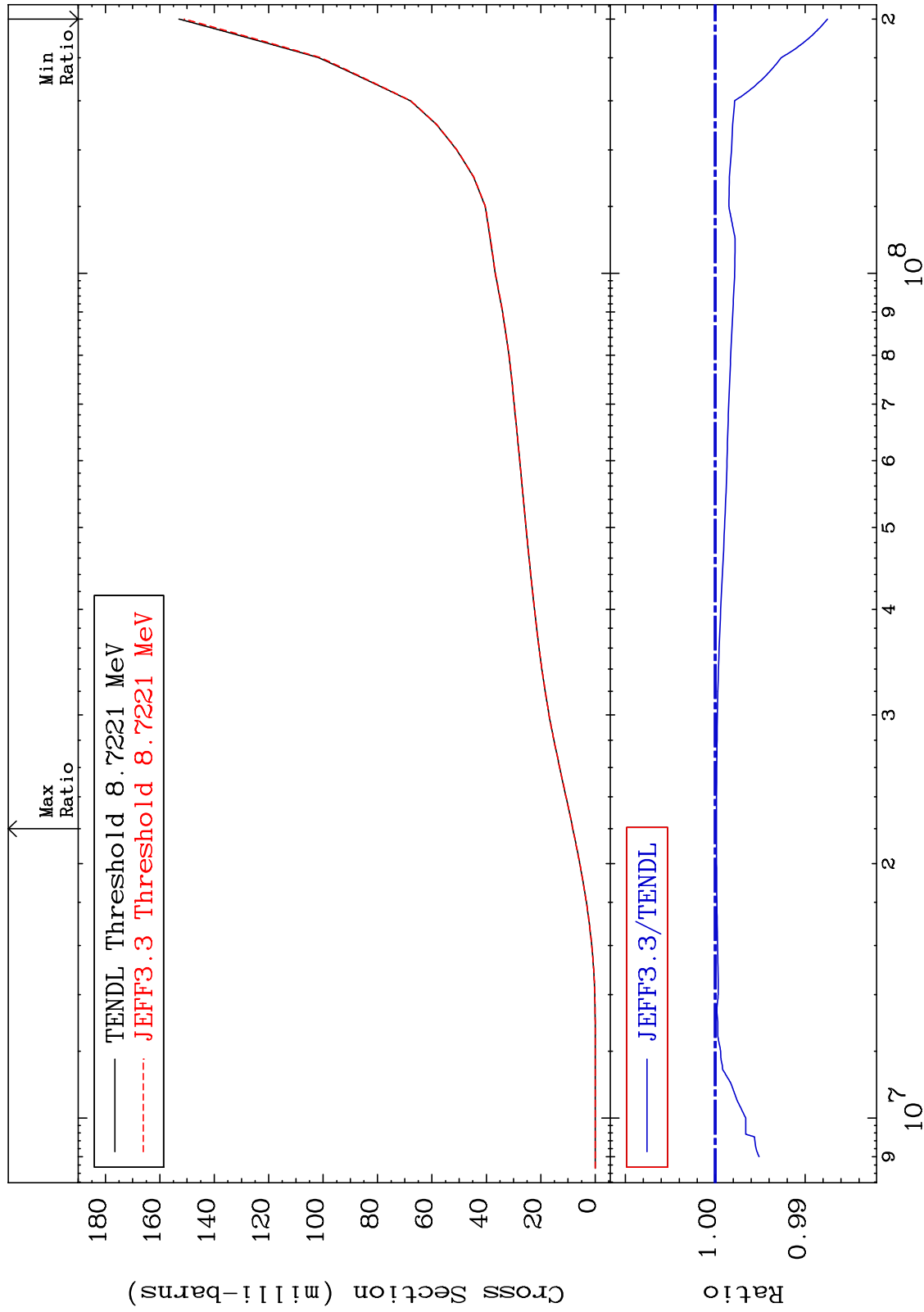
Incident Energy (eV)

31-Ga-71

MAT 3131

Tritium Production
Cross Section

$^{31}\text{Ga-71}$
-1.249 To -0.014%



47

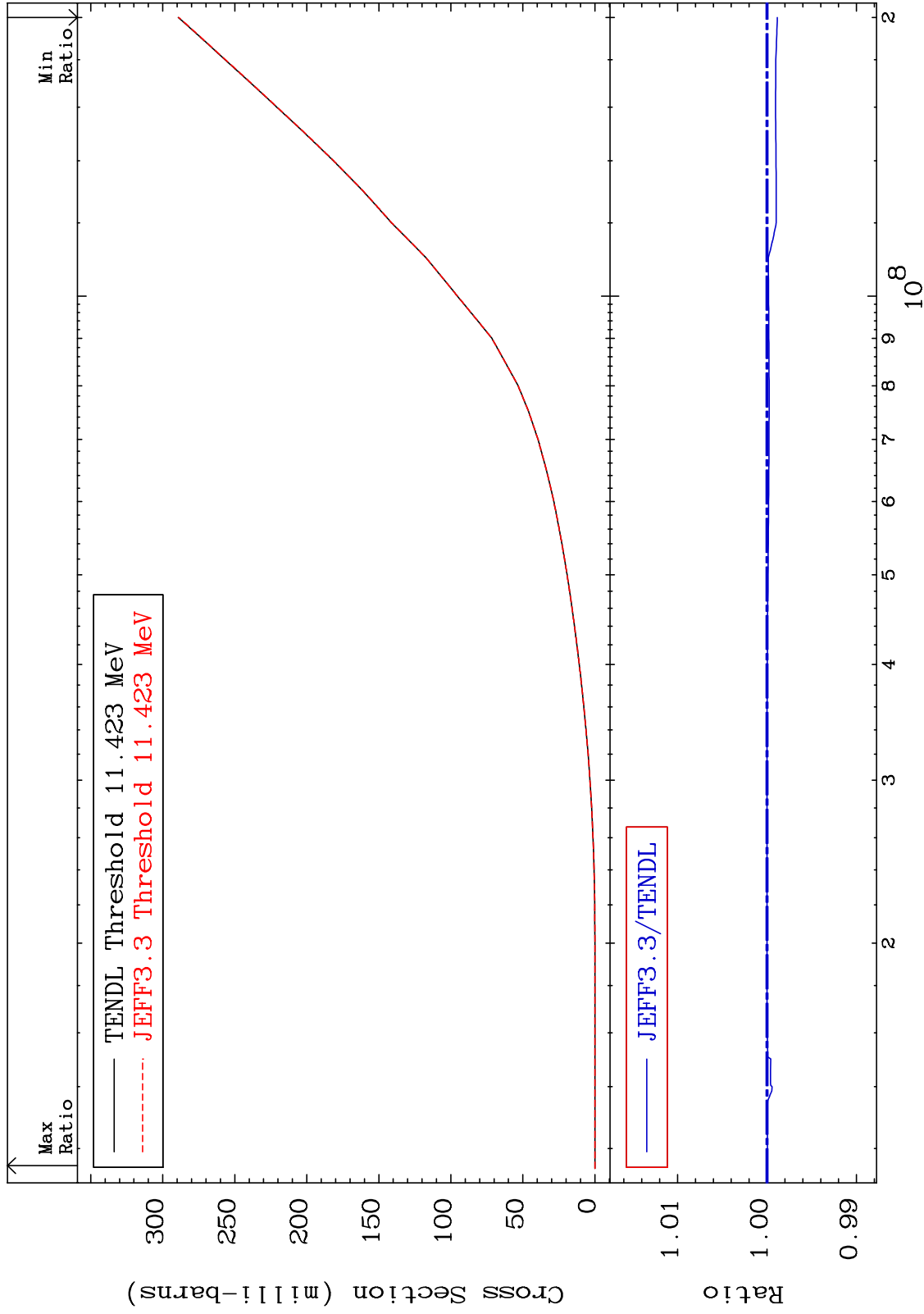
Incident Energy (eV)

$^{31}\text{Ga-71}$

MAT 3131

He-3 Production
Cross Section

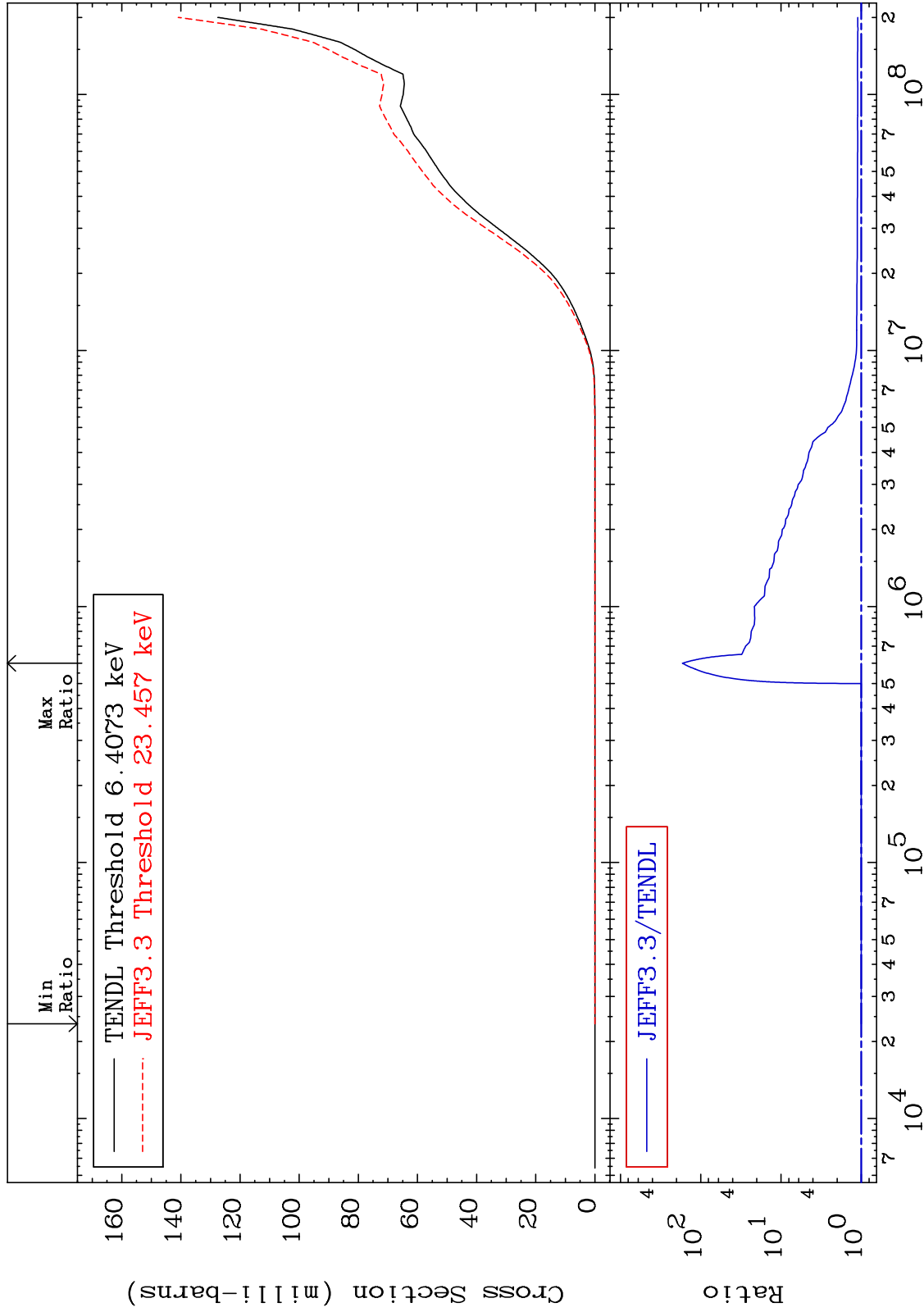
31-Ga-71
-0.115 To 0.007 %



MAT 3131

He-4 Production
Cross Section

31-Ga-71
To 9999. %



49

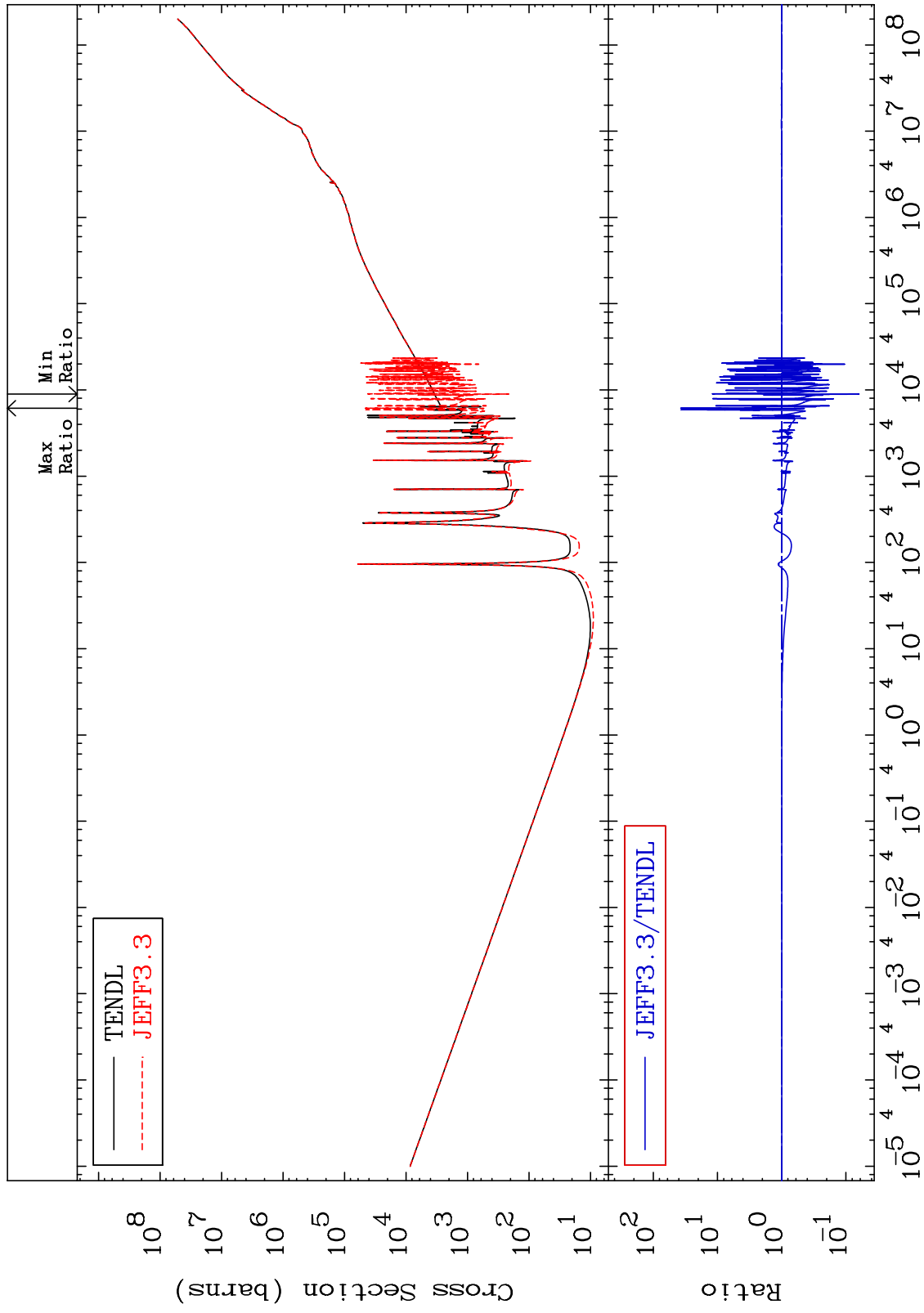
Incident Energy (eV)

31-Ga-71

MAT 3131

Kerma total (eV-barns)
Cross Section

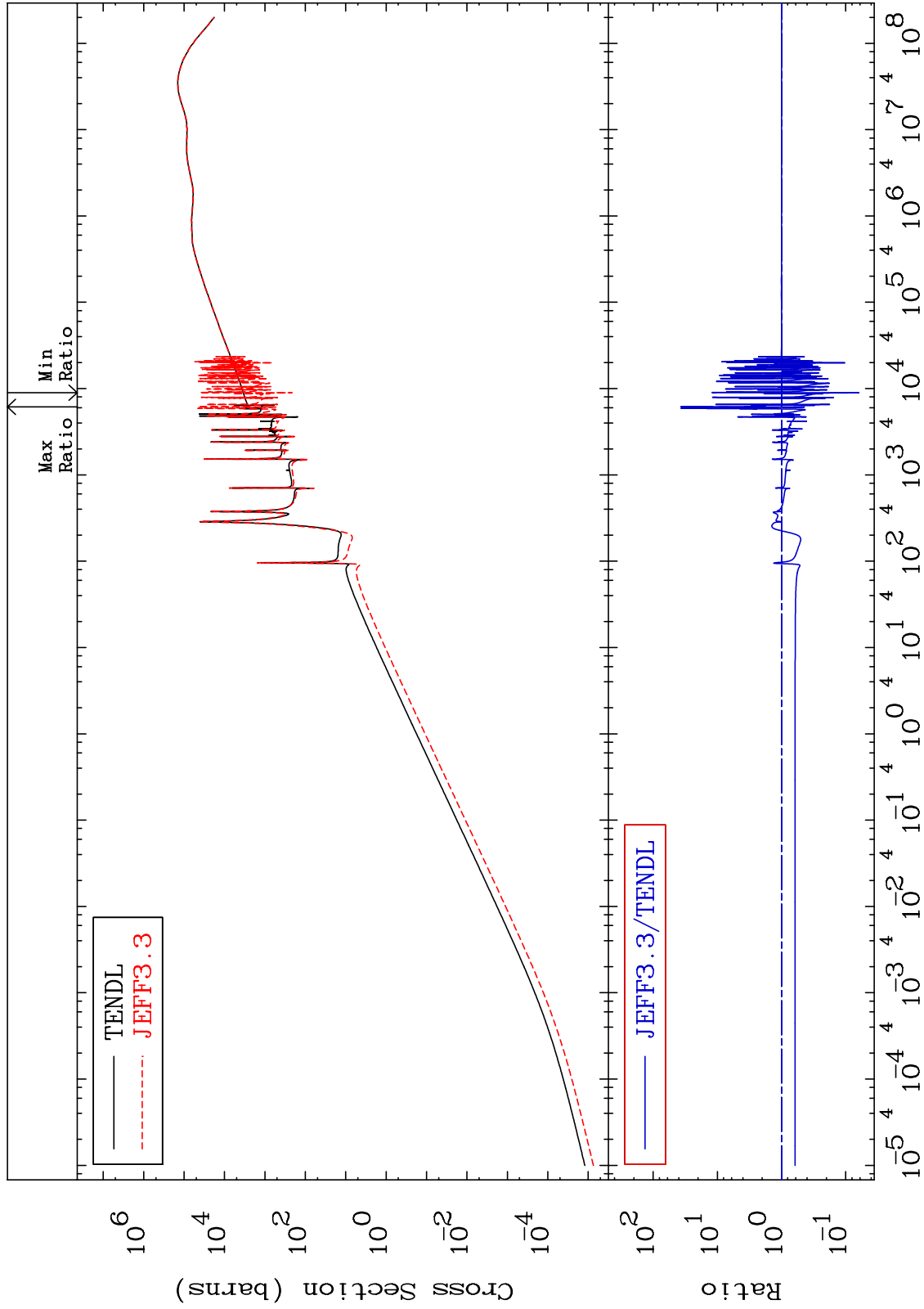
31-Ga-71
-93.74 To 3645. %



MAT 3131

Kerma elastic
Cross Section

31-Ga-71
-93.80 To 3635. %



51

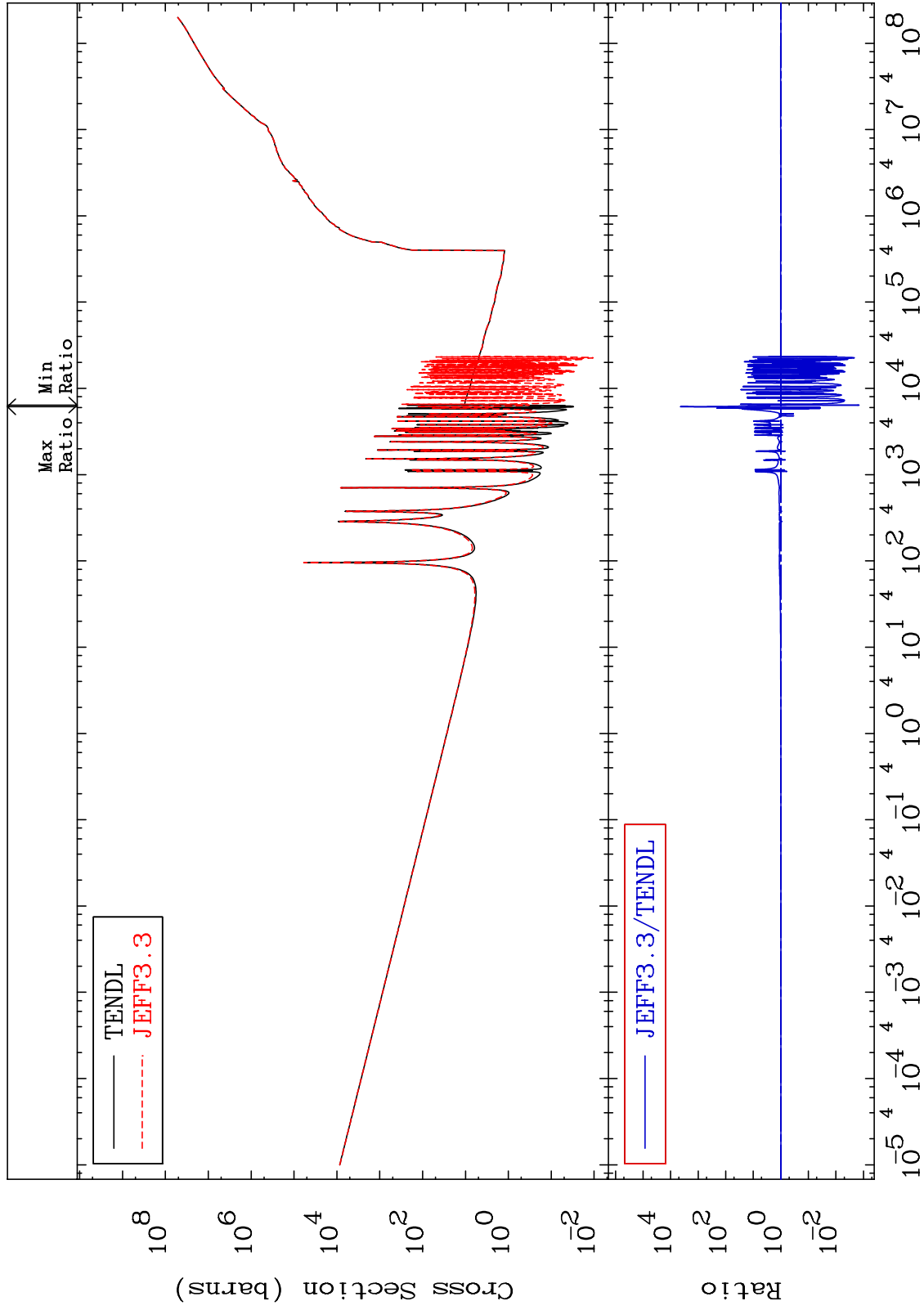
Incident Energy (eV)

31-Ga-71

MAT 3131

Kerma non-elastic (all but mt2)
Cross Section

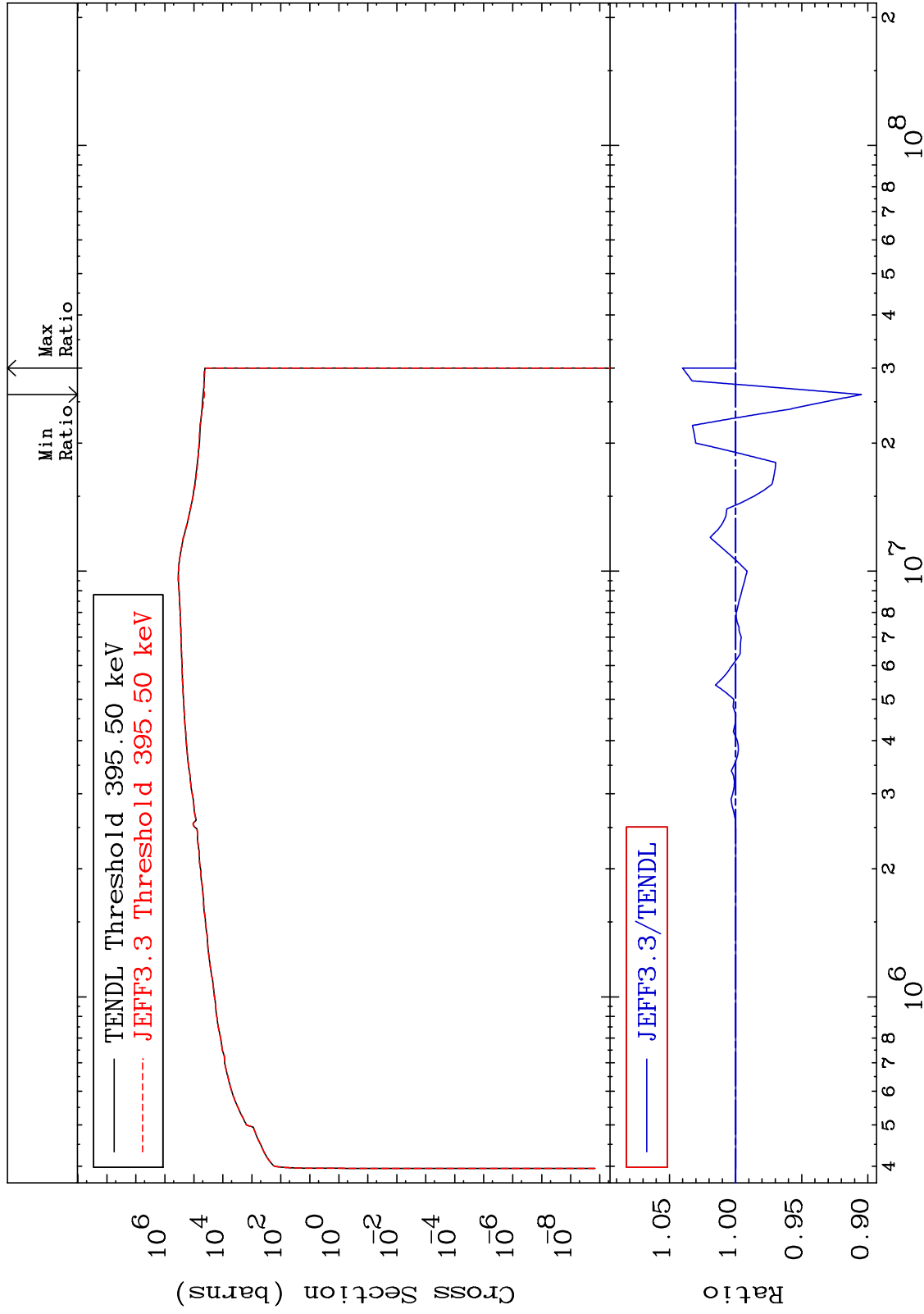
31-Ga-71
-99.85 To 9999. %



MAT 3131

Kerma inelastic (mt51-91)
Cross Section

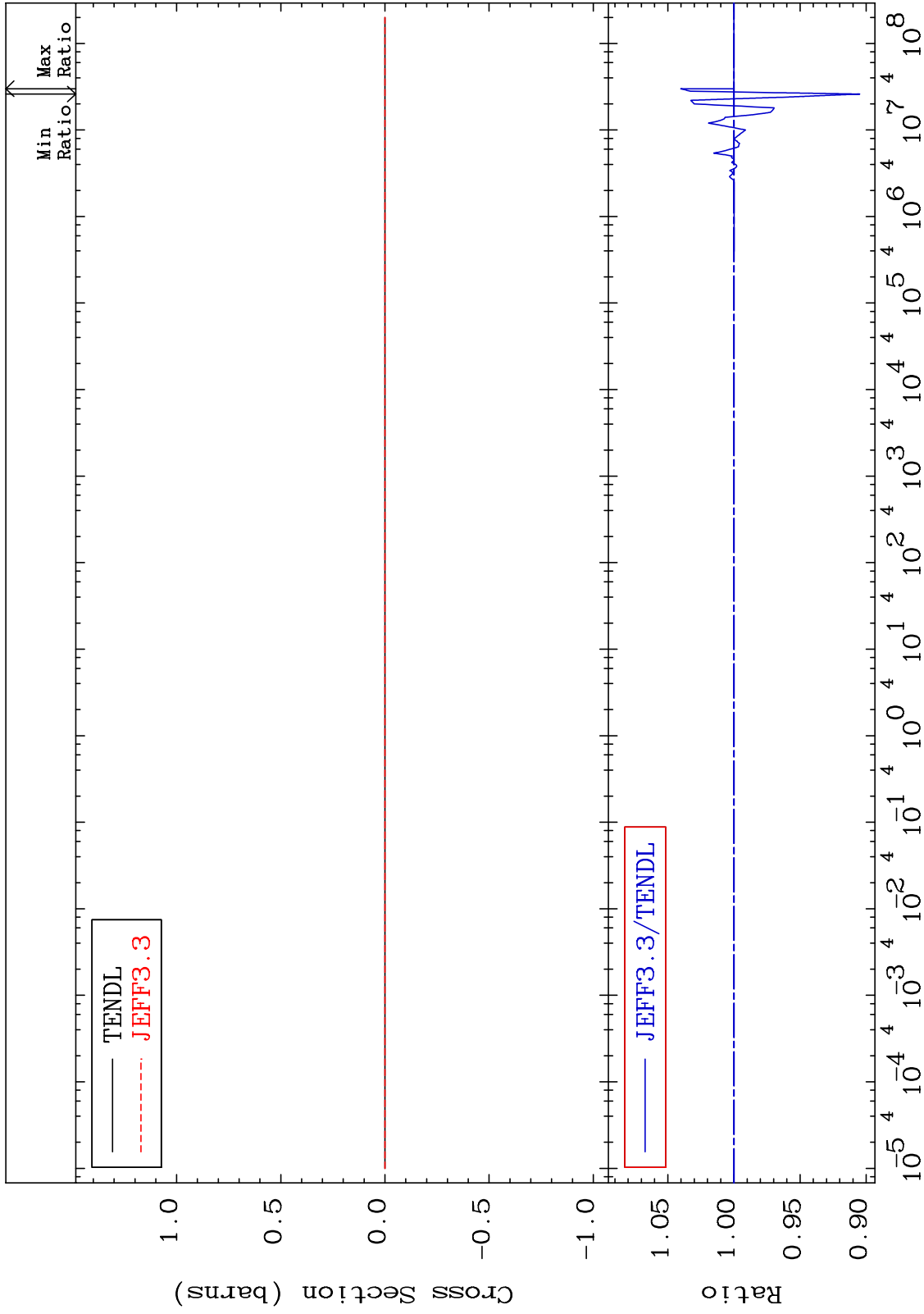
31-Ga-71
-9.503 To 4.018 %



MAT 3131

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

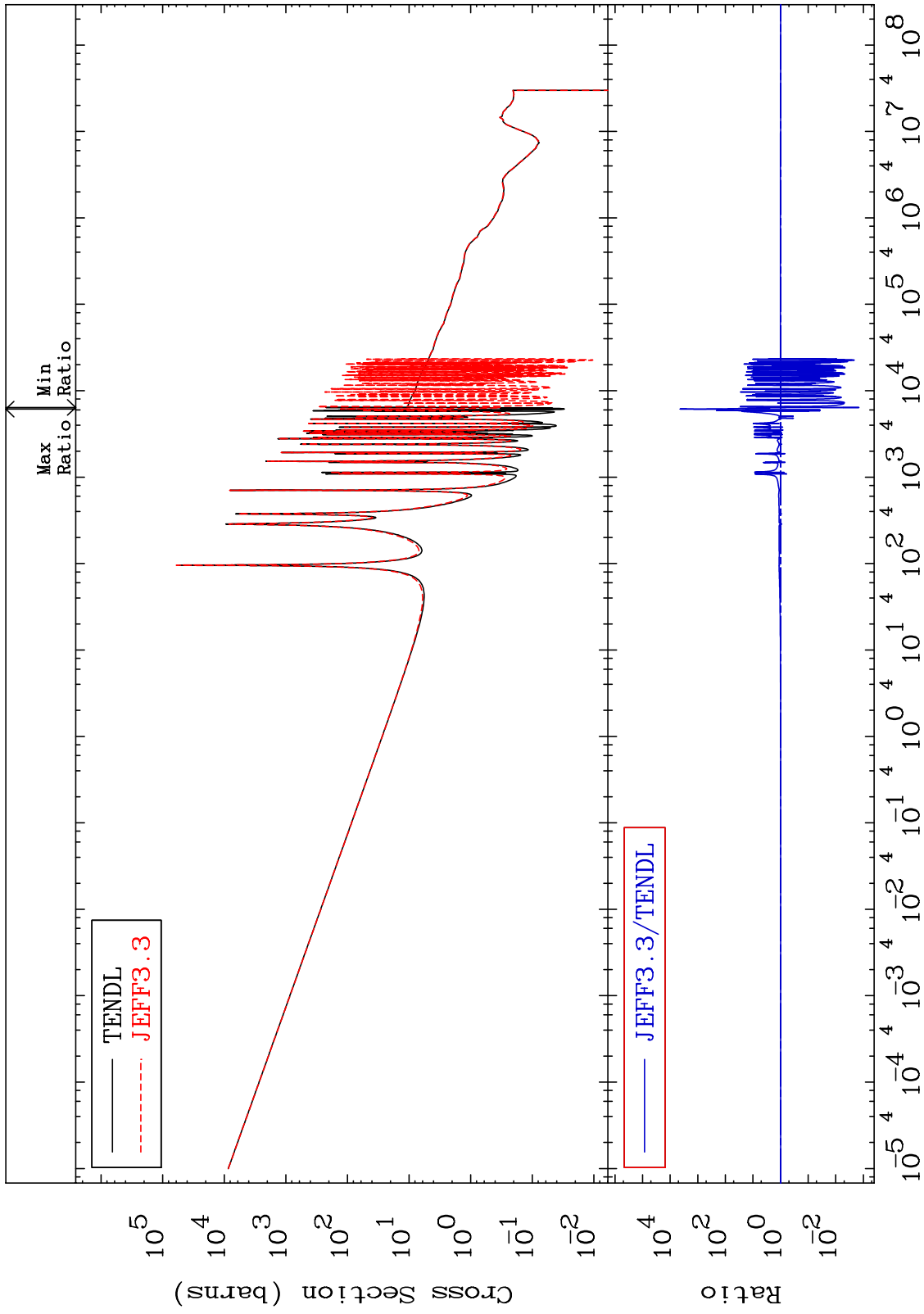
31-Ga-71
-9.503 To 4.018 %



MAT 3131

Kerma capture (mt102)
Cross Section

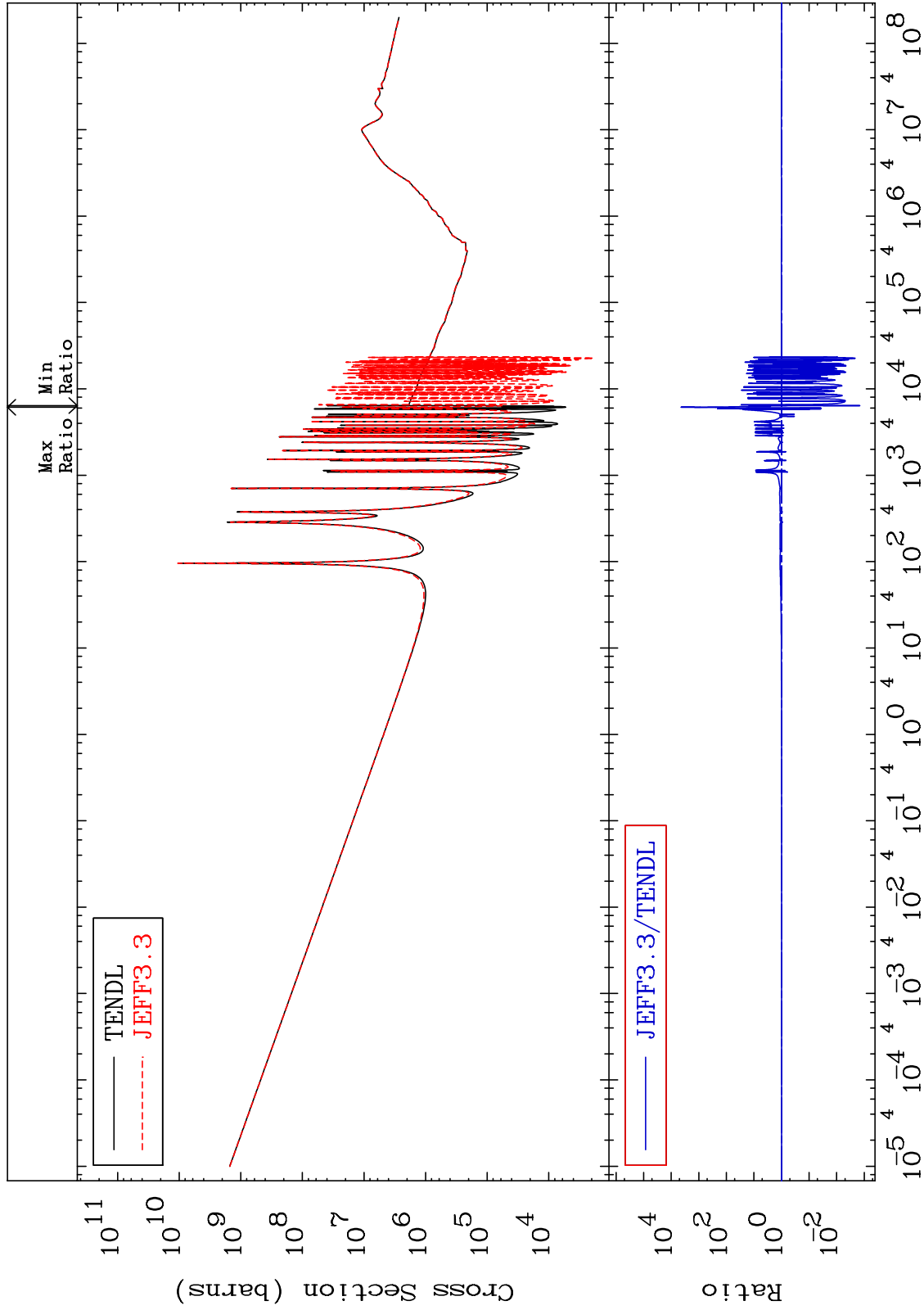
31-Ga-71
-99.85 To 9999. %



MAT 3131

Total photon (eV-barns)
Cross Section

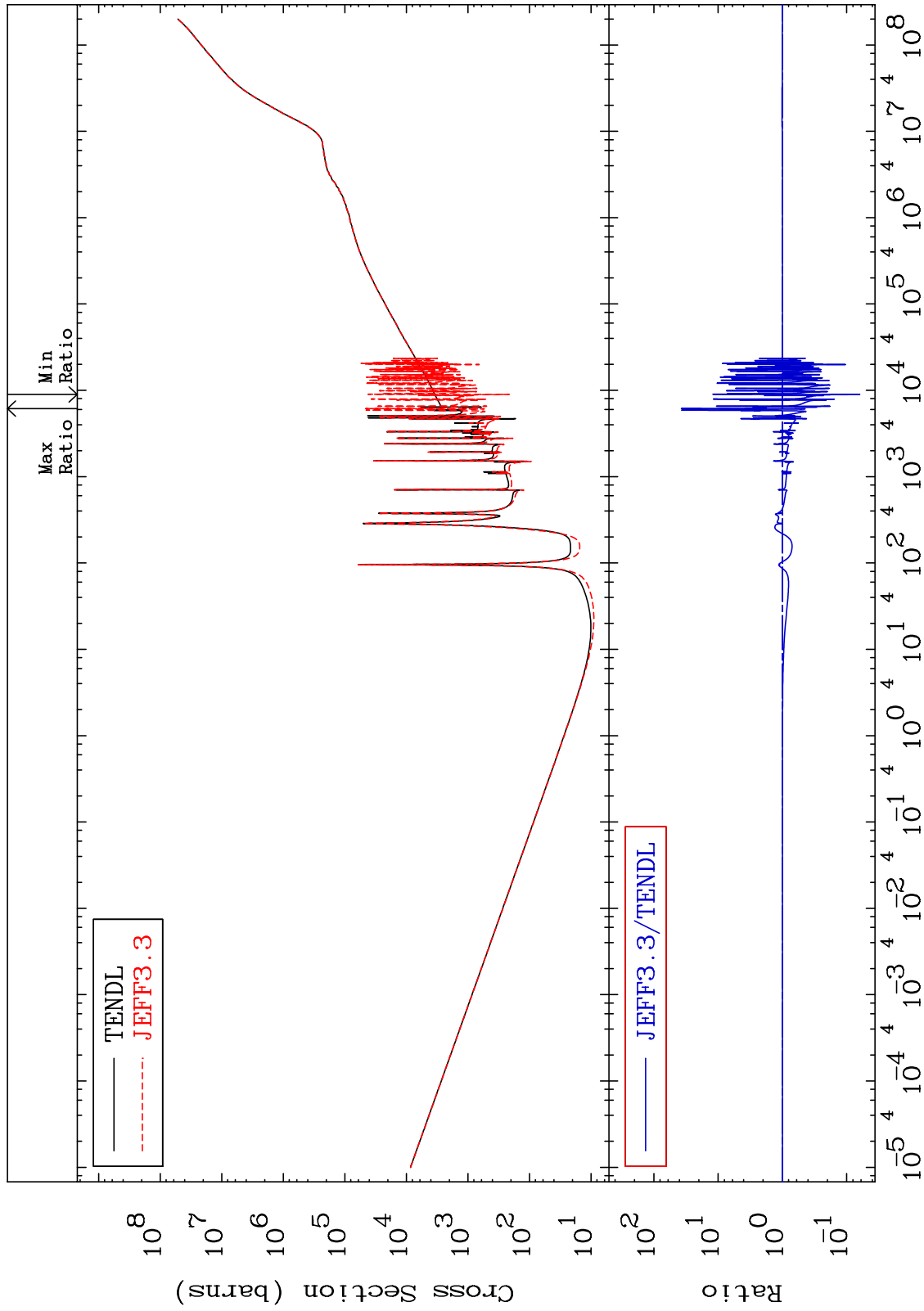
31-Ga-71
-99.85 To 9999. %



MAT 3131

Total kinematic kerma (high limit)
Cross Section

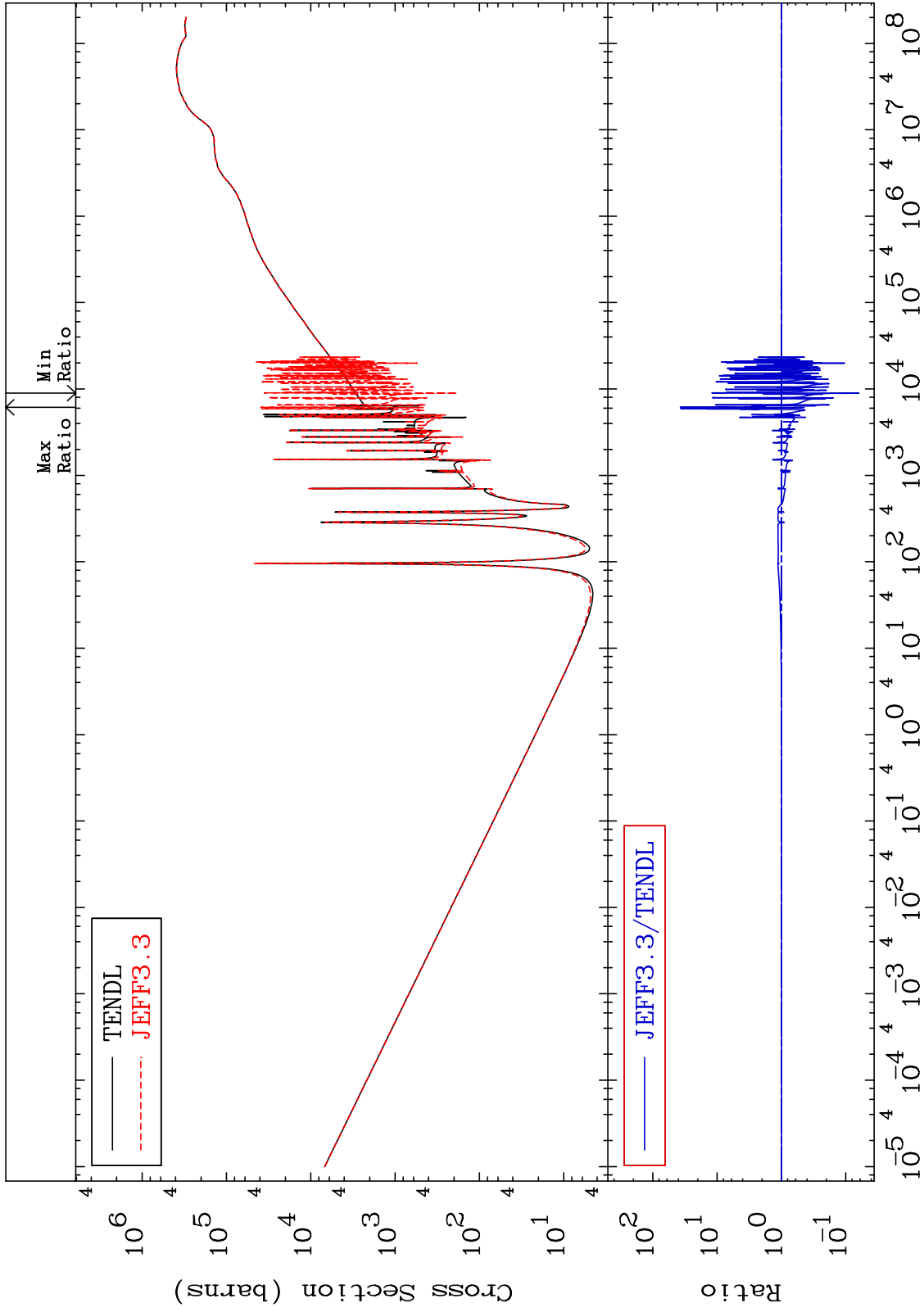
31-Ga-71
-93.74 To 3645. %



MAT 3131

Dpa total (eV-barns)
Cross Section

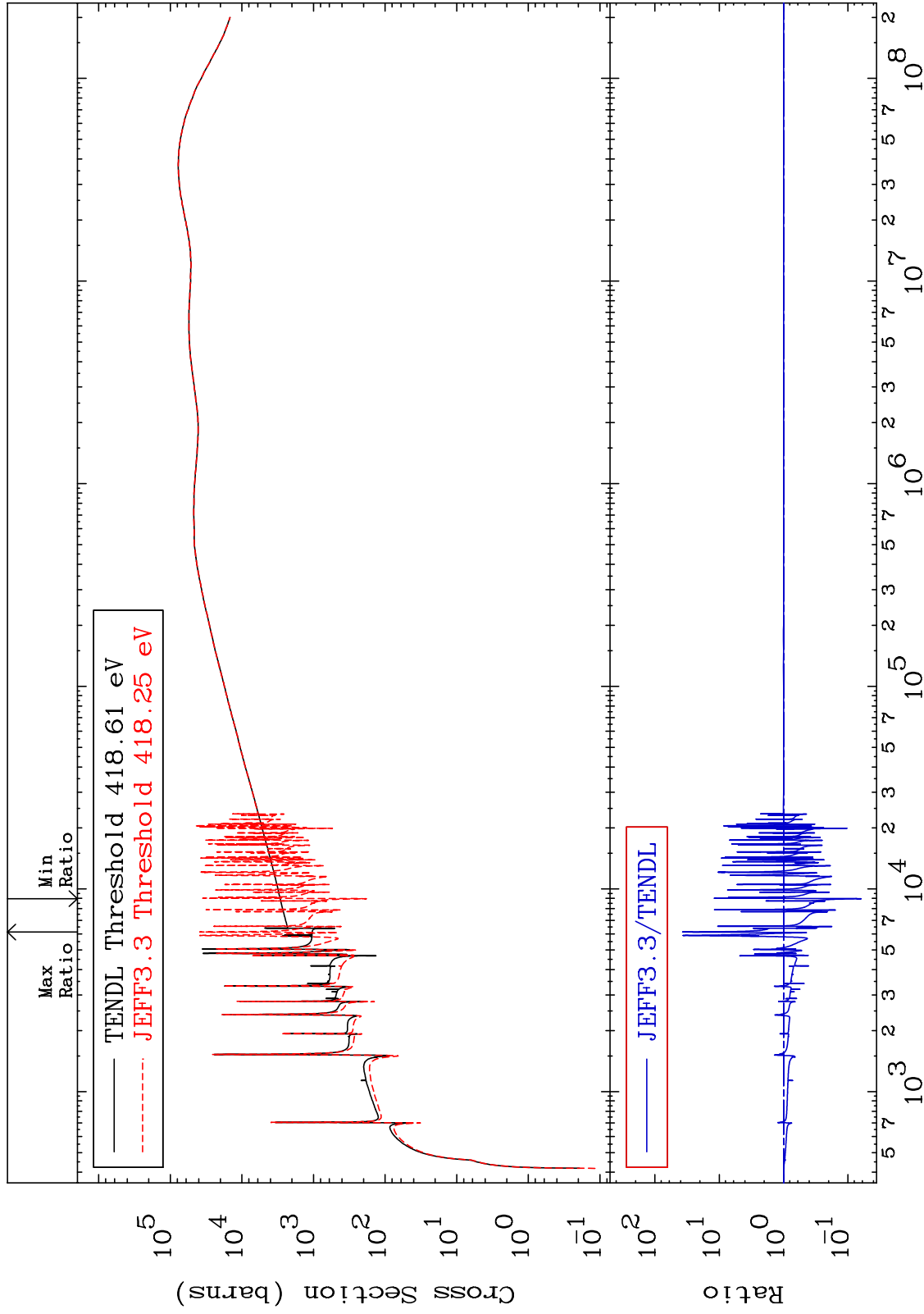
31-Ga-71
-93.74 To 3644. %



MAT 3131

Dpa elastic (mt2)
Cross Section

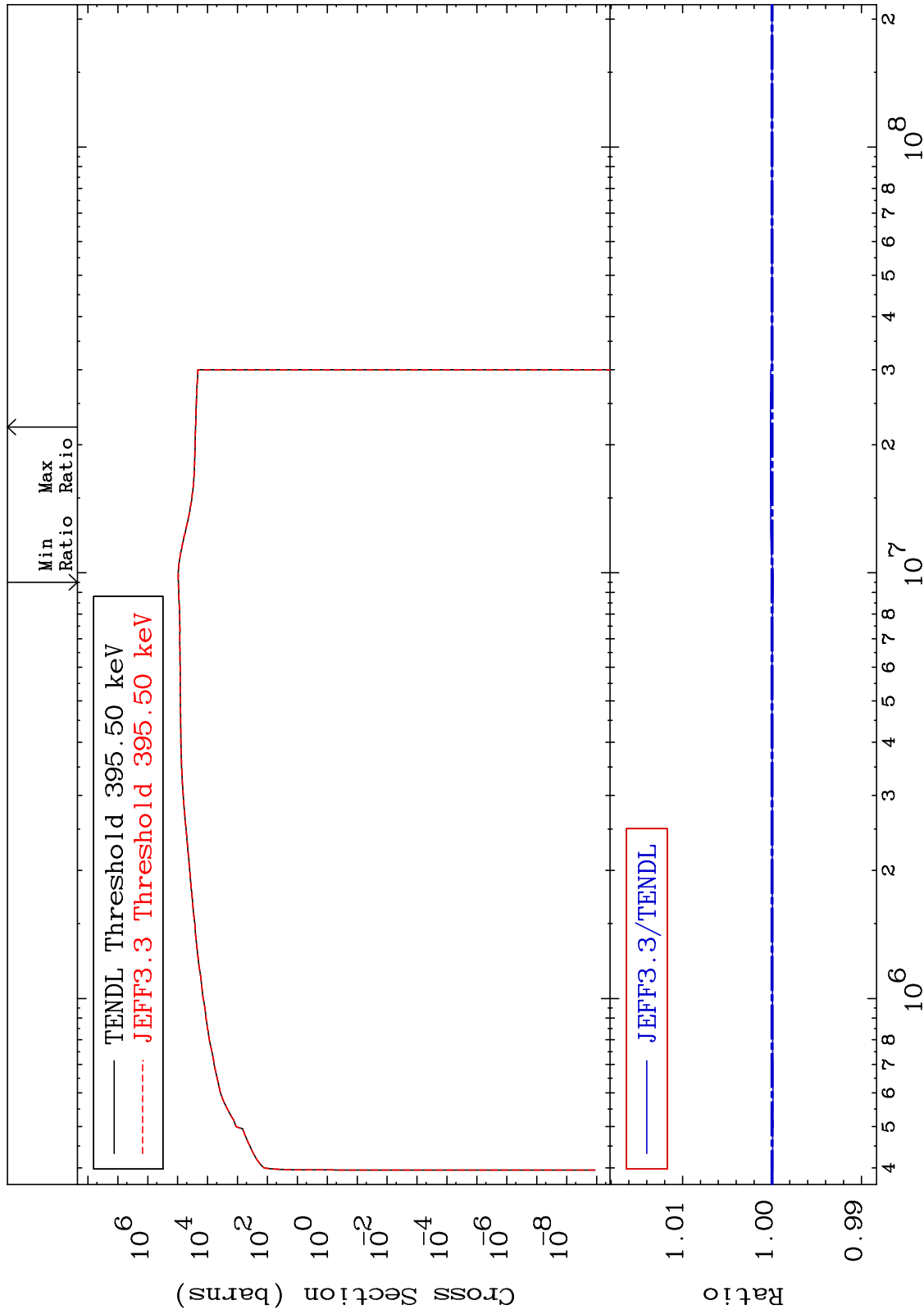
31-Ga-71
-93.79 To 3635. %



MAT 3131

Dpa inelastic (mt51-91)
Cross Section

31-Ga-71
-0.014 To 0.016 %



60

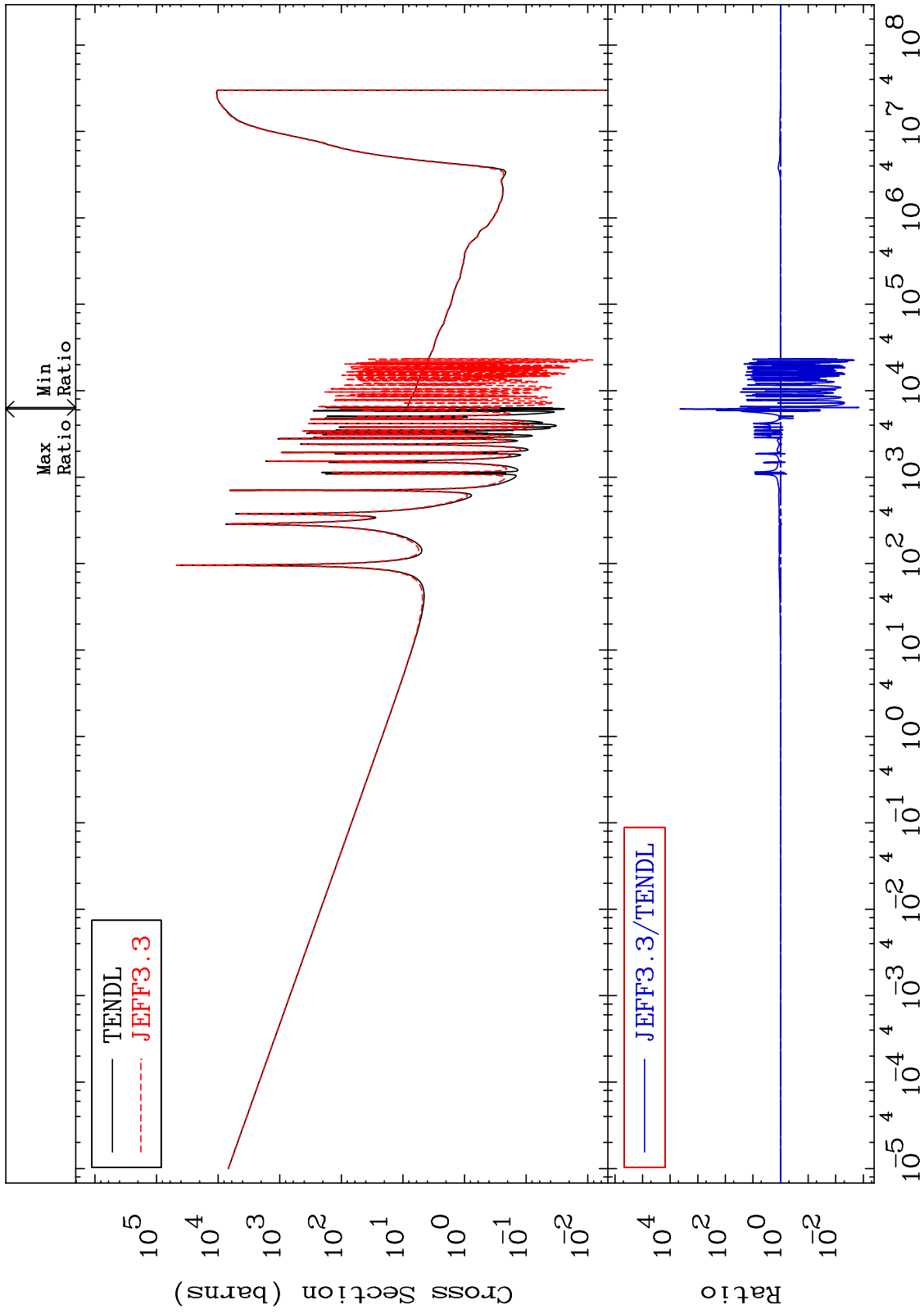
Incident Energy (eV)

31-Ga-71

MAT 3131

Dpa disappearance (mt102 -120)
Cross Section

31-Ga-71
-99.85 To 9999. %

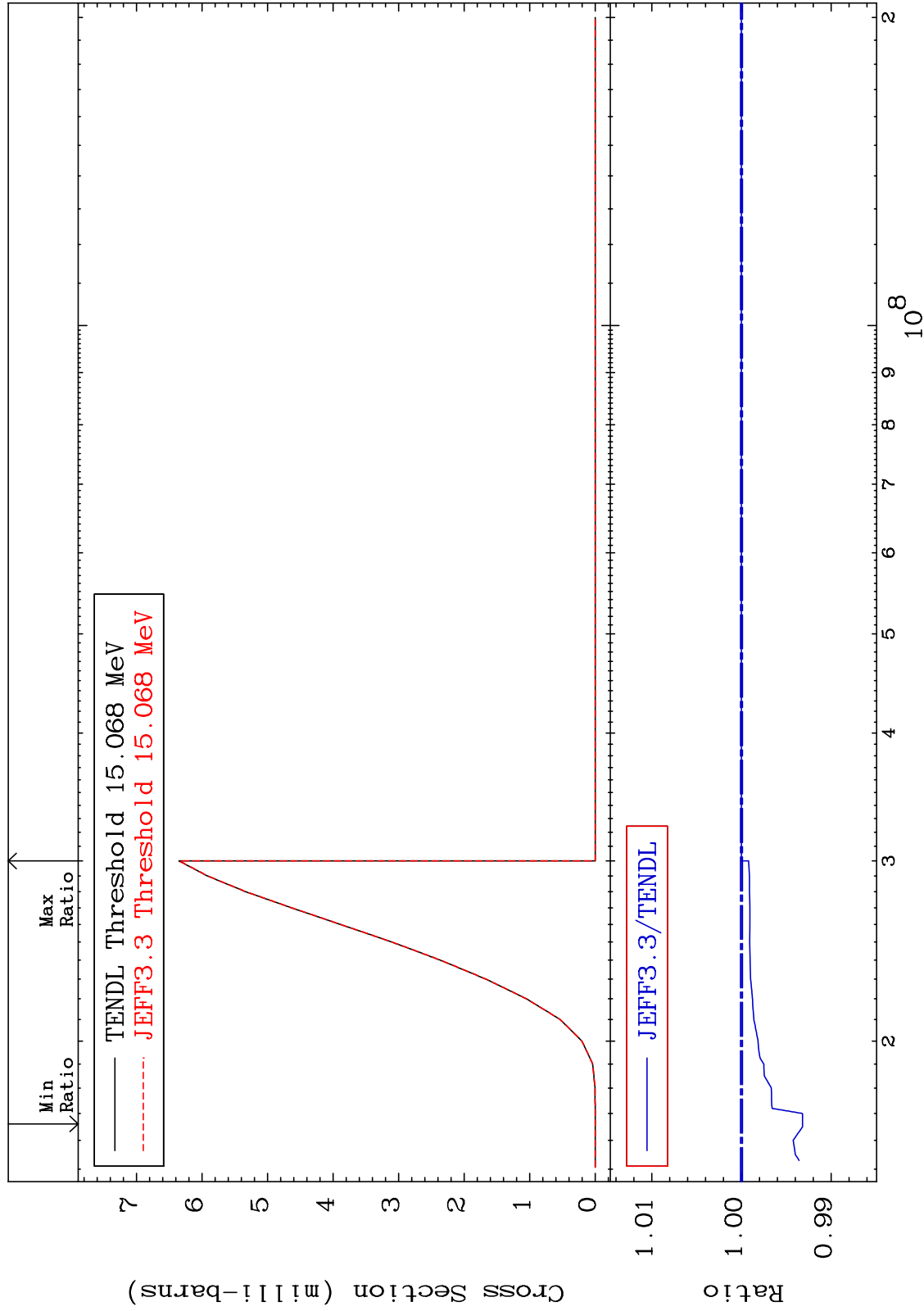


MAT 3131

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

31-Ga-71

Radionuclide Production Cross Section -0.681 To 0.000 %

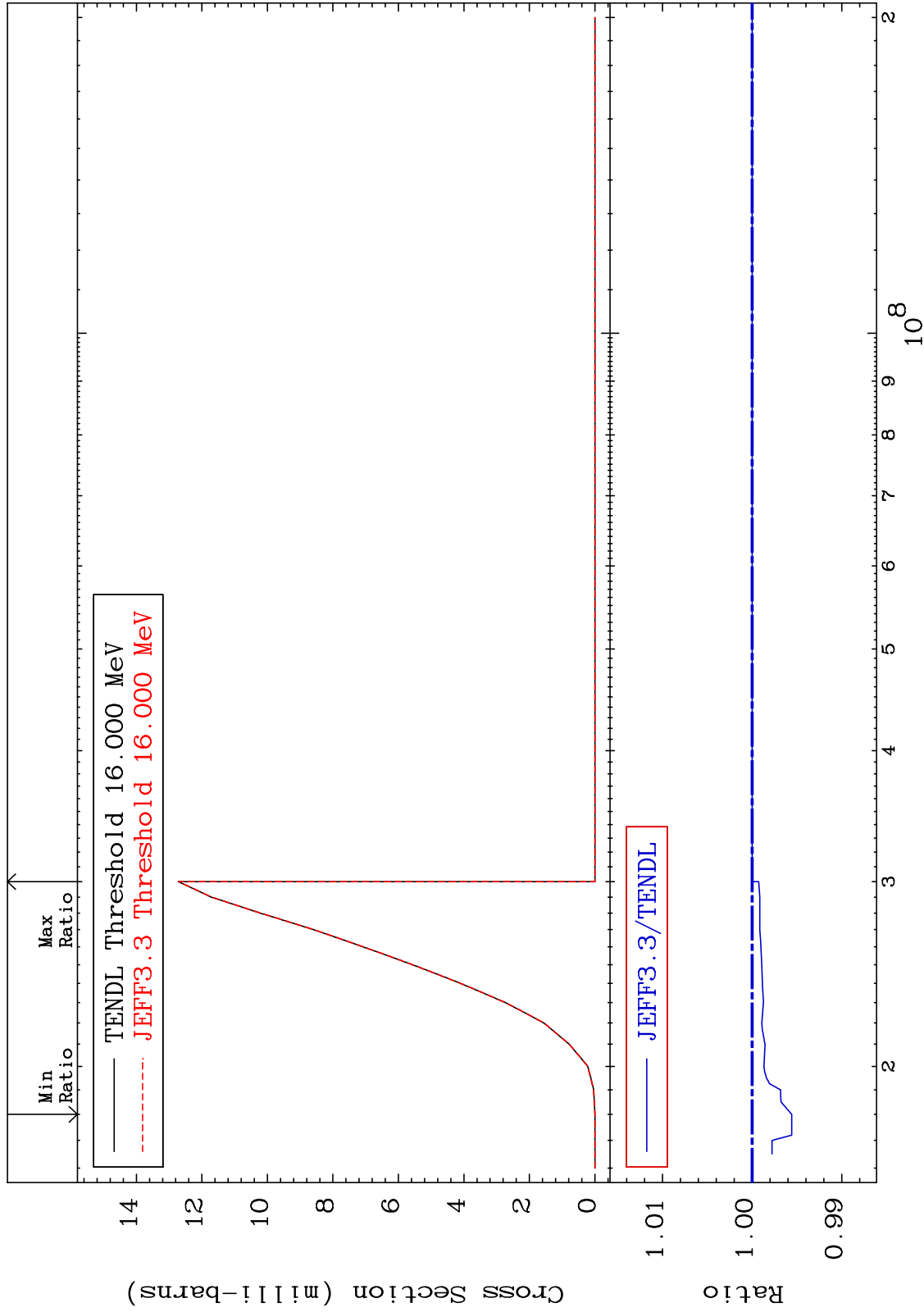


MAT 3131

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

31-Ga-71

Radionuclide Production Cross Section -0.442 To 0.000 %



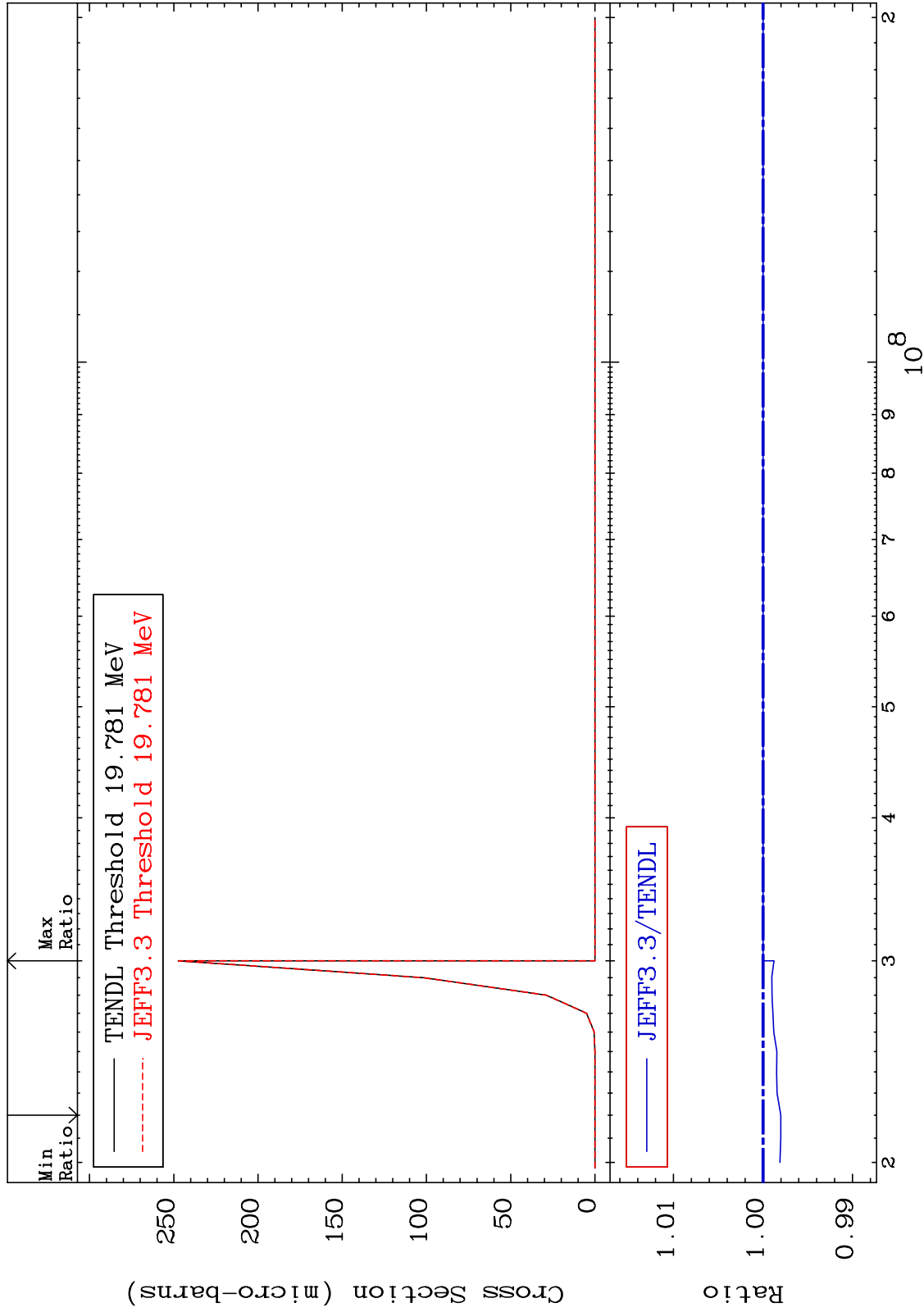
63

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 %

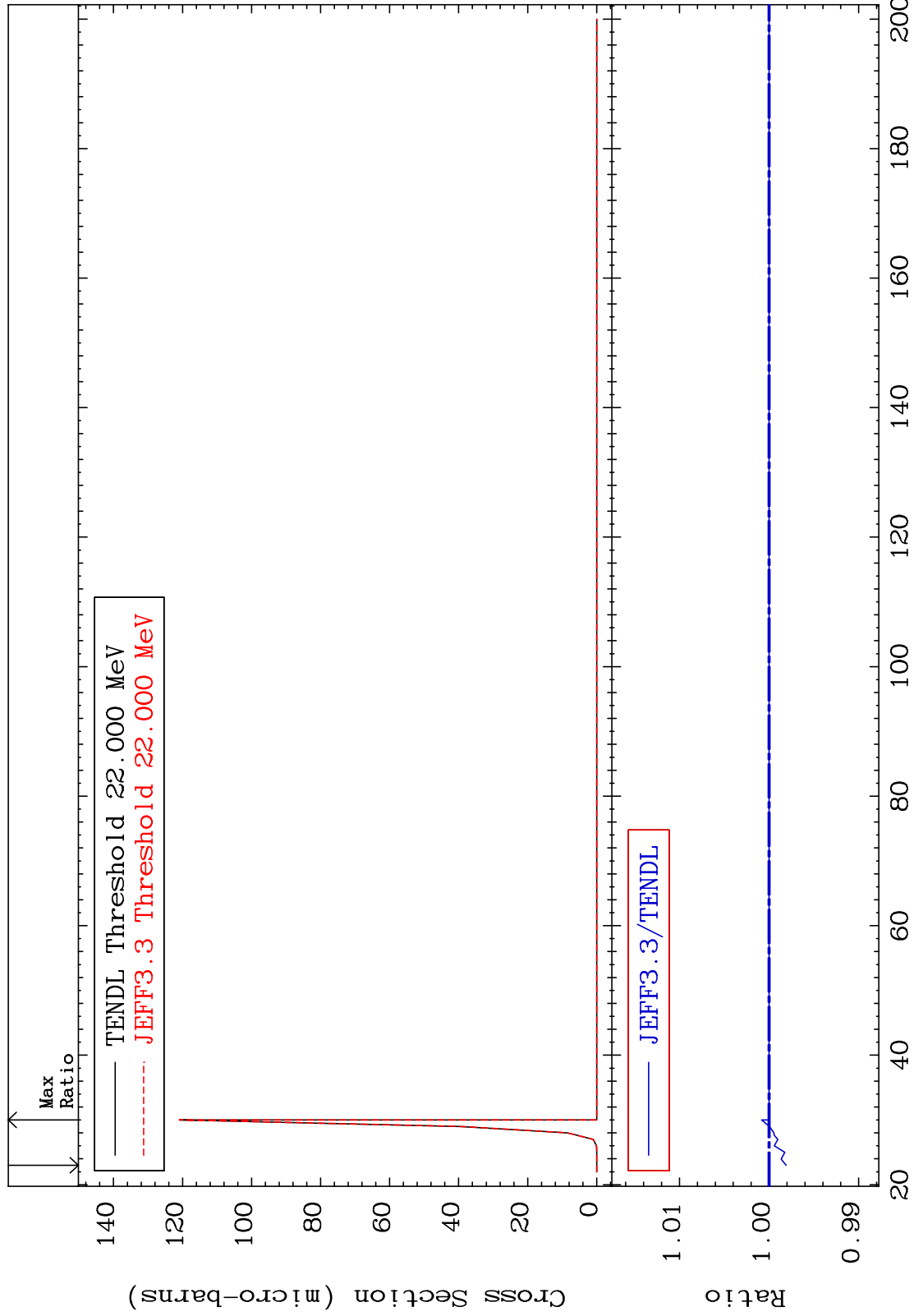


MAT 3131

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

31-Ga-71

Radionuclide Production Cross Section -0.191 To 0.083 %



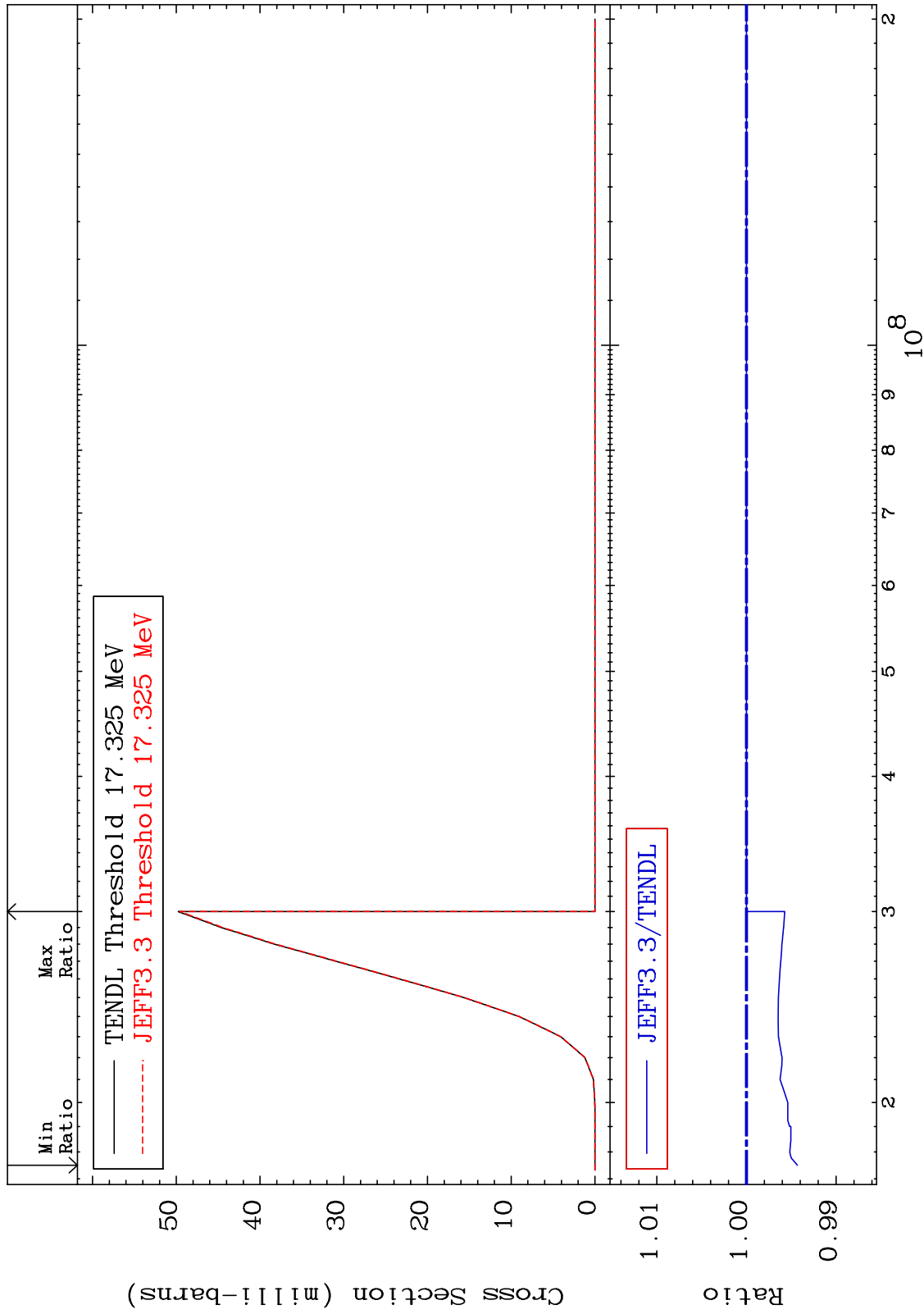
65

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 %

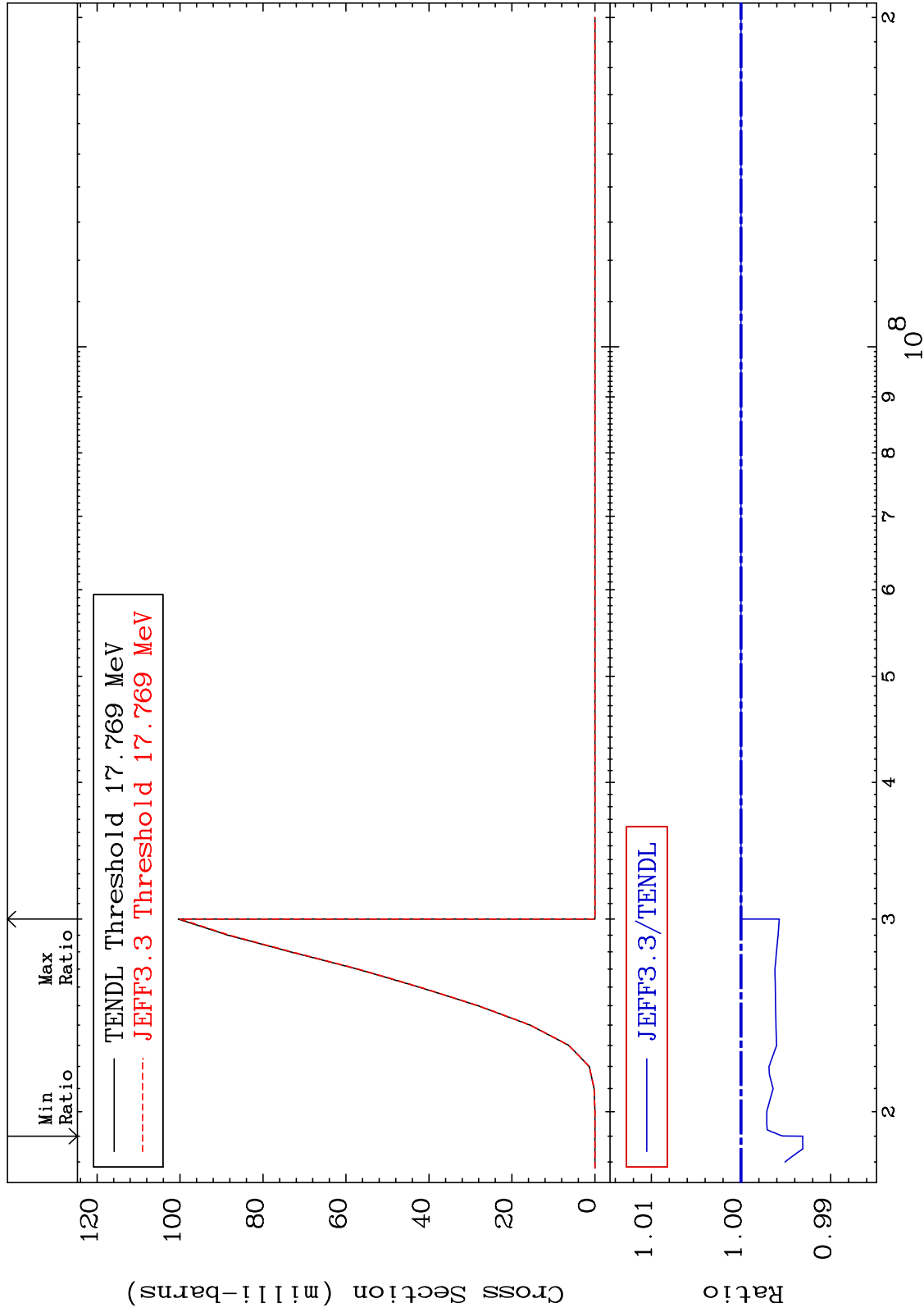


MAT 3131

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

31-Ga-71

Radionuclide Production Cross Section -0.688 To 0.000 %



67

Incident Energy (eV)

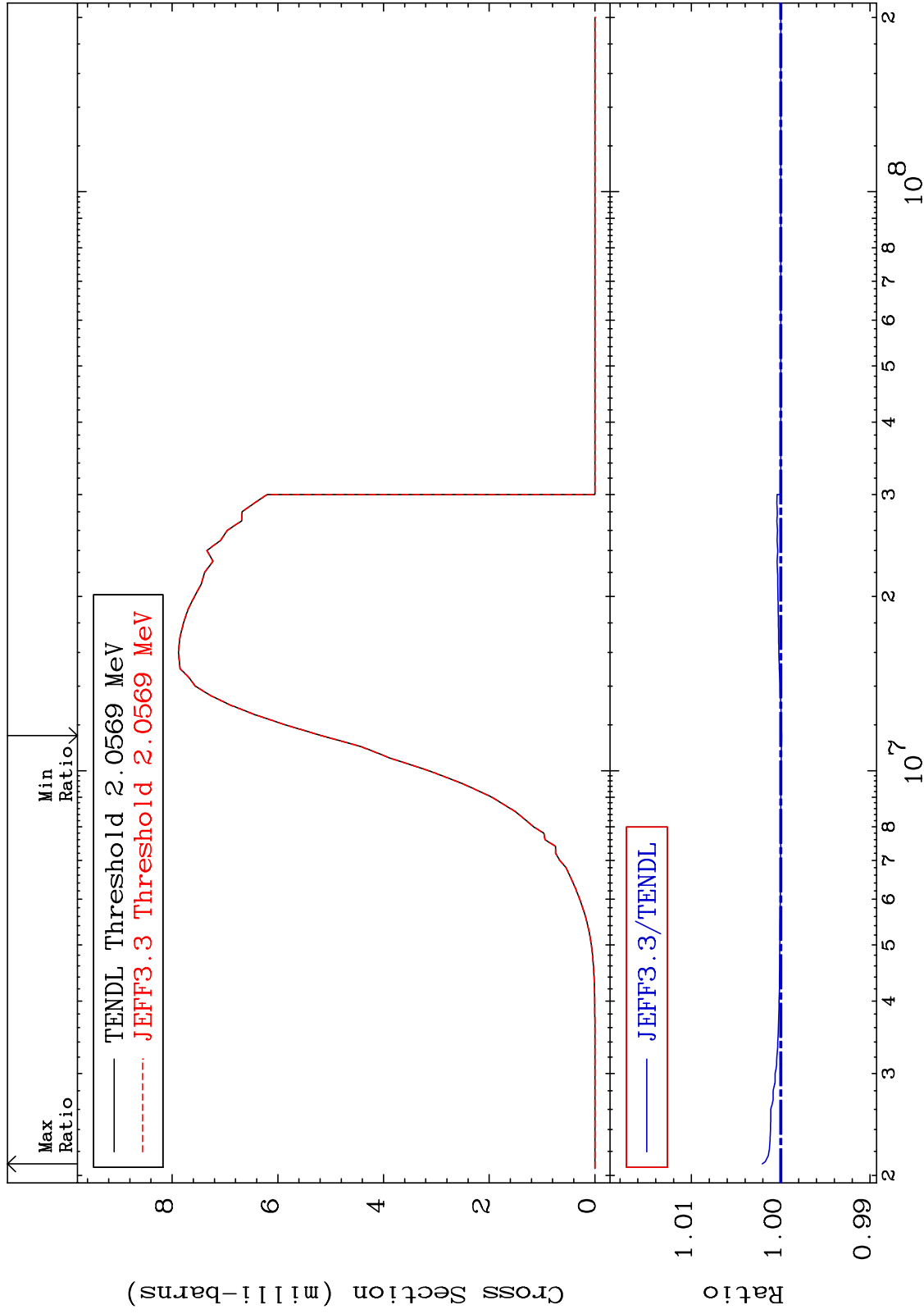
31-Ga-71

MAT 3131

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

31-Ga-71

Radionuclide Production Cross Section -0.010 To 0.209 %



68

Incident Energy (eV)

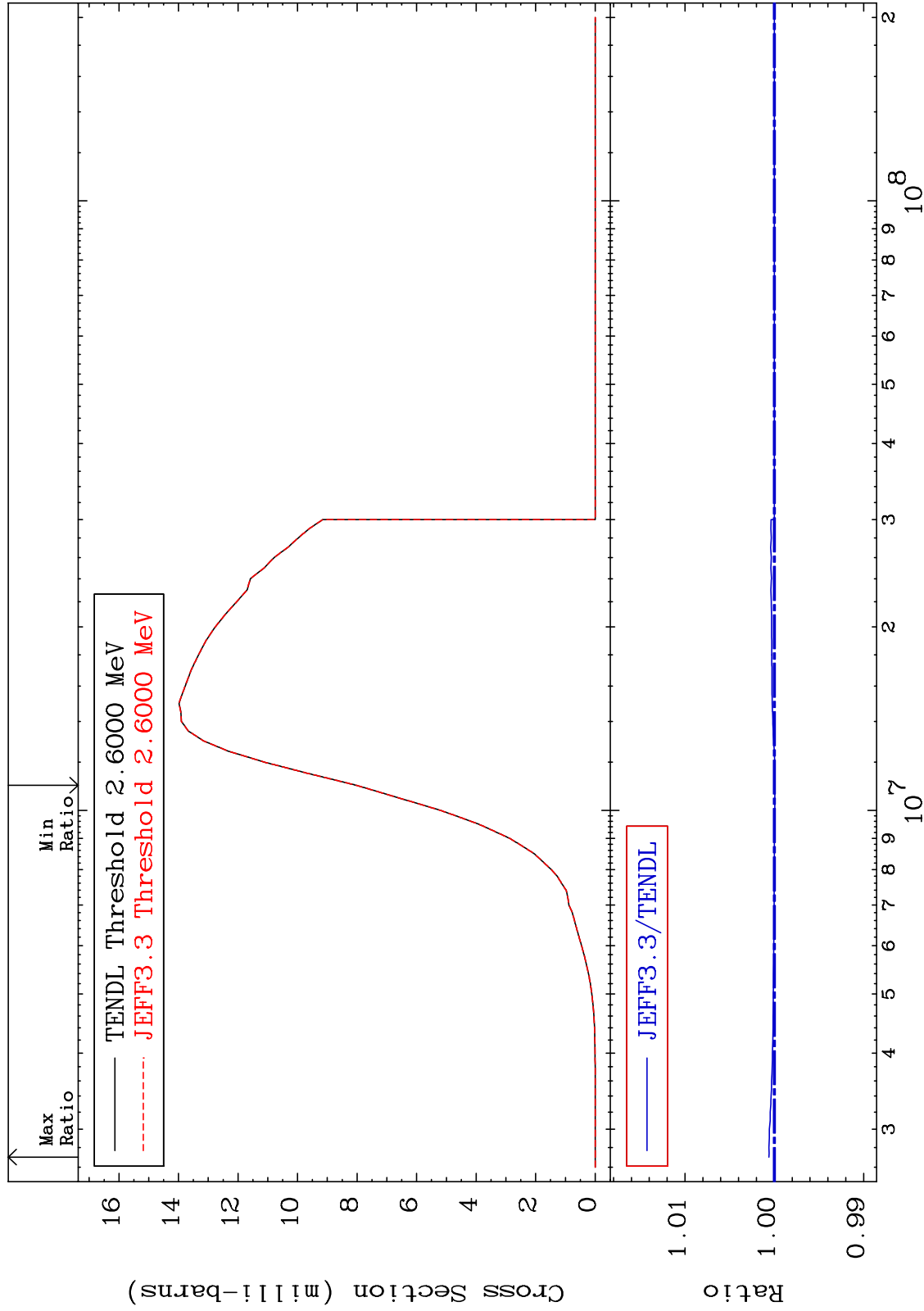
31-Ga-71

MAT 3131

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

31-Ga-71

Radionuclide Production Cross Section -0.008 To 0.059 %

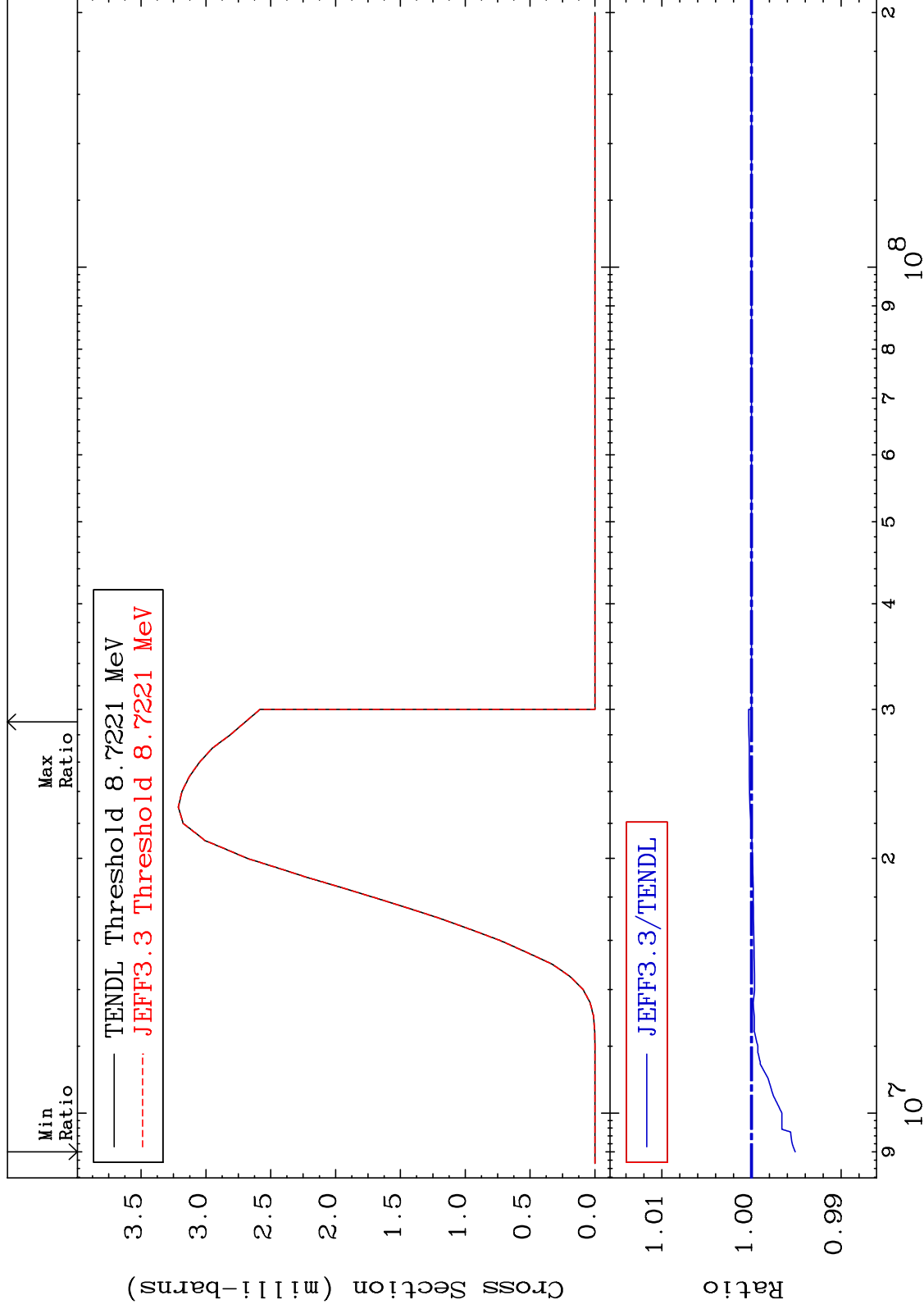


MAT 3131

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

31-Ga-71

Radionuclide Production Cross Section -0.487 To 0.033 %



70

Incident Energy (eV)

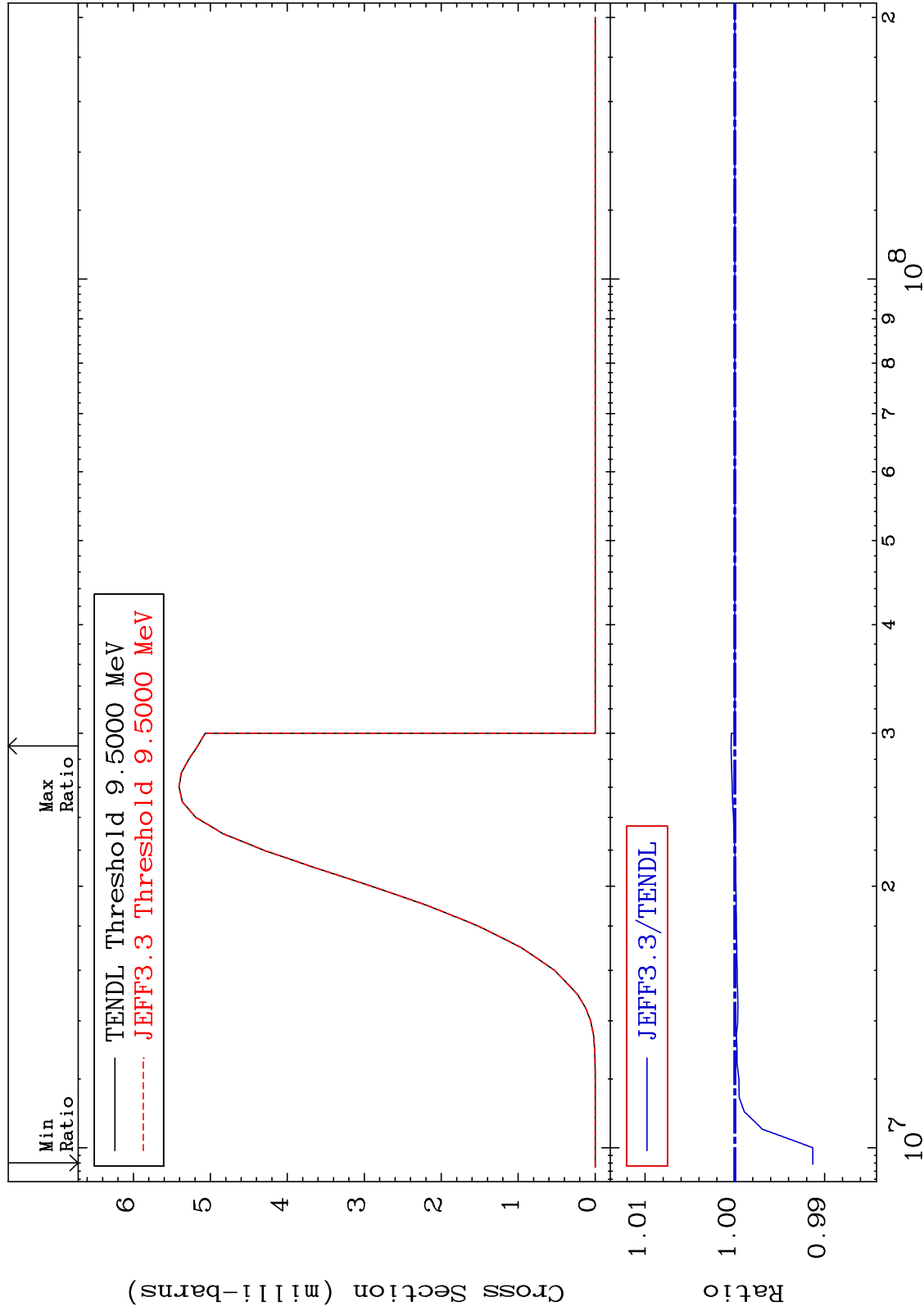
31-Ga-71

MAT 3131

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

31-Ga-71

Radionuclide Production Cross Section -0.870 To 0.041 %



71

Incident Energy (eV)

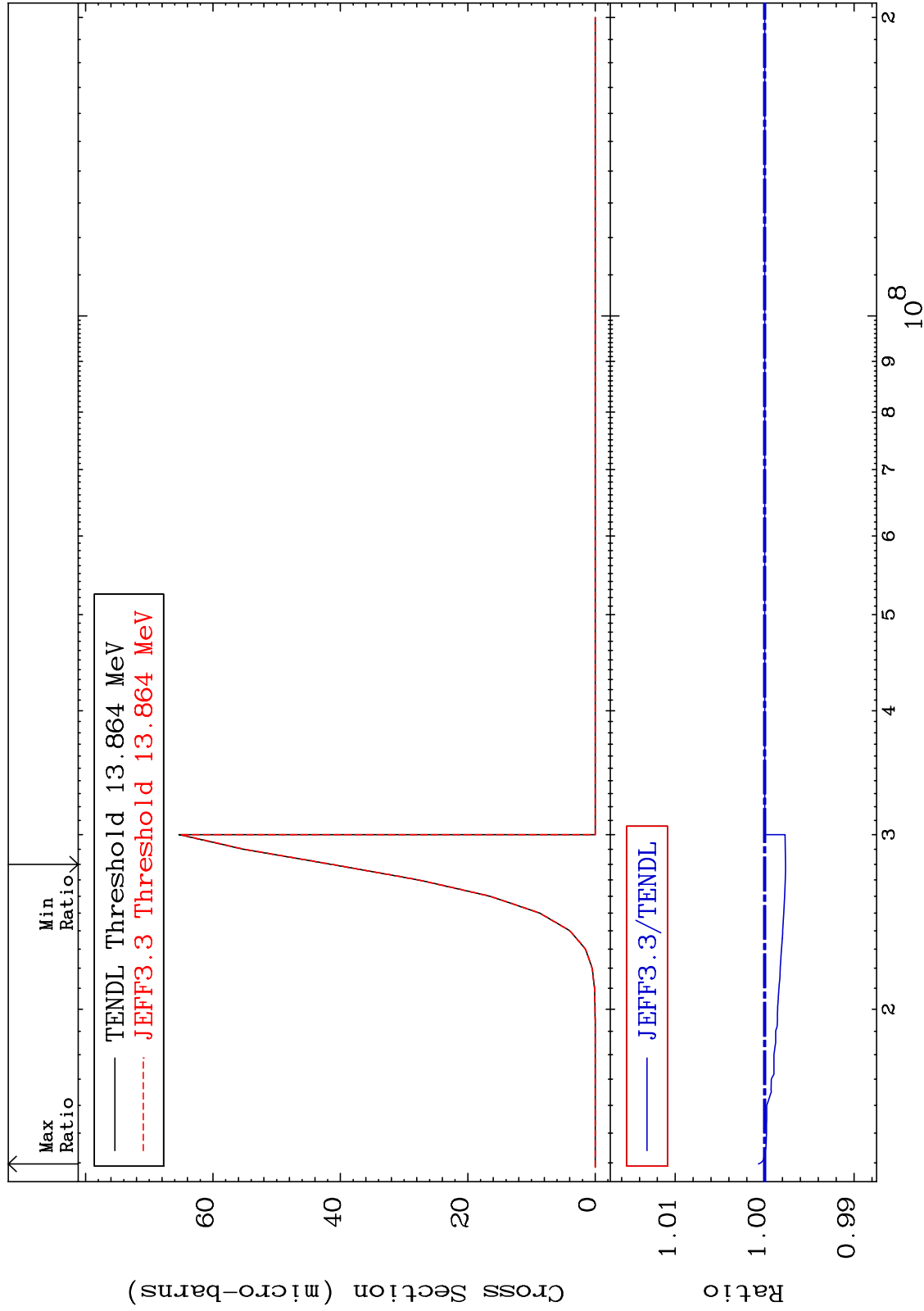
31-Ga-71

MAT 3131

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

31-Ga-71

Radionuclide Production Cross Section -0.234 To 0.069 %



72

Incident Energy (eV)

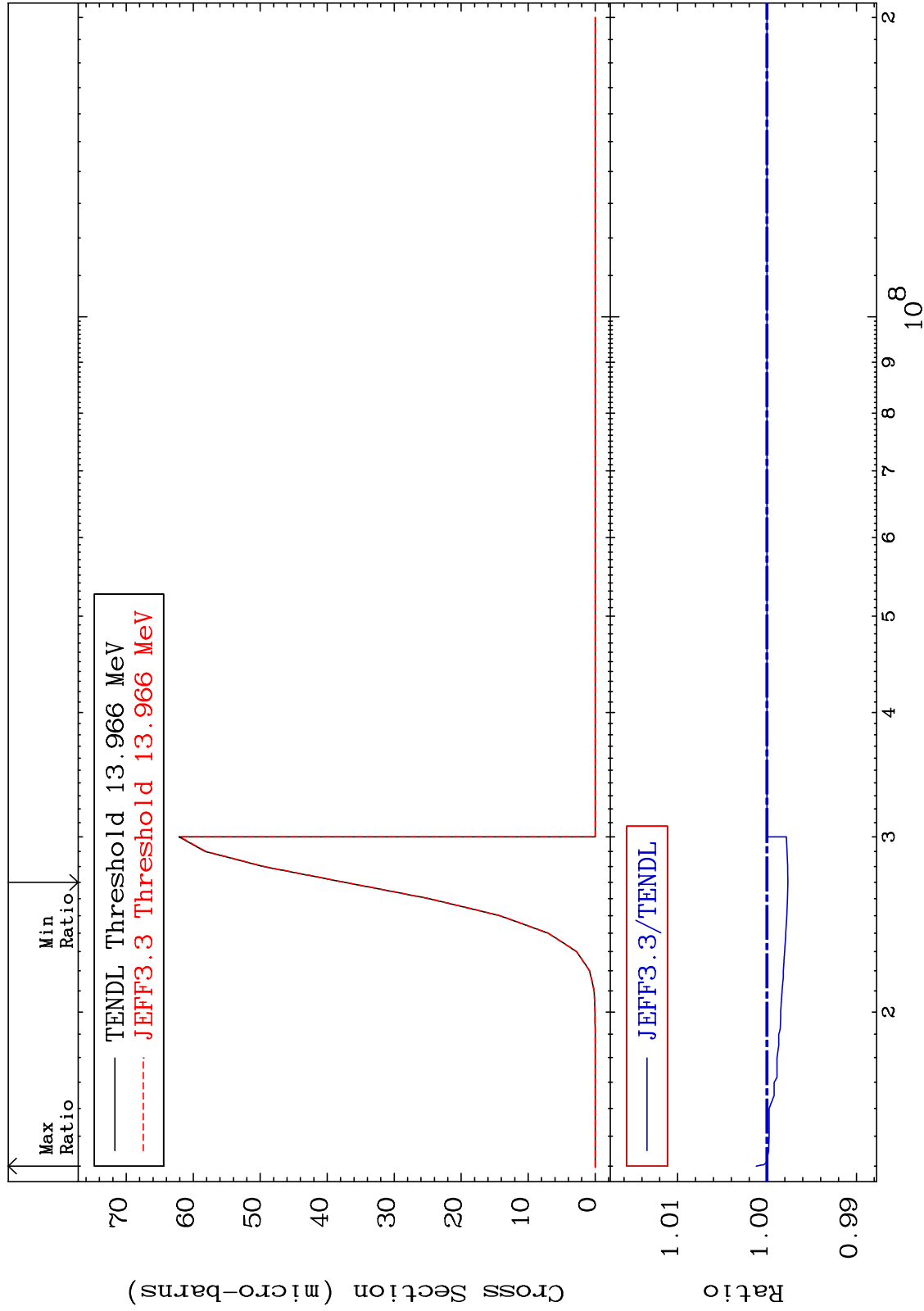
31-Ga-71

MAT 3131

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

31-Ga-71

Radionuclide Production Cross Section -0.233 To 0.121 %



73

Incident Energy (eV)

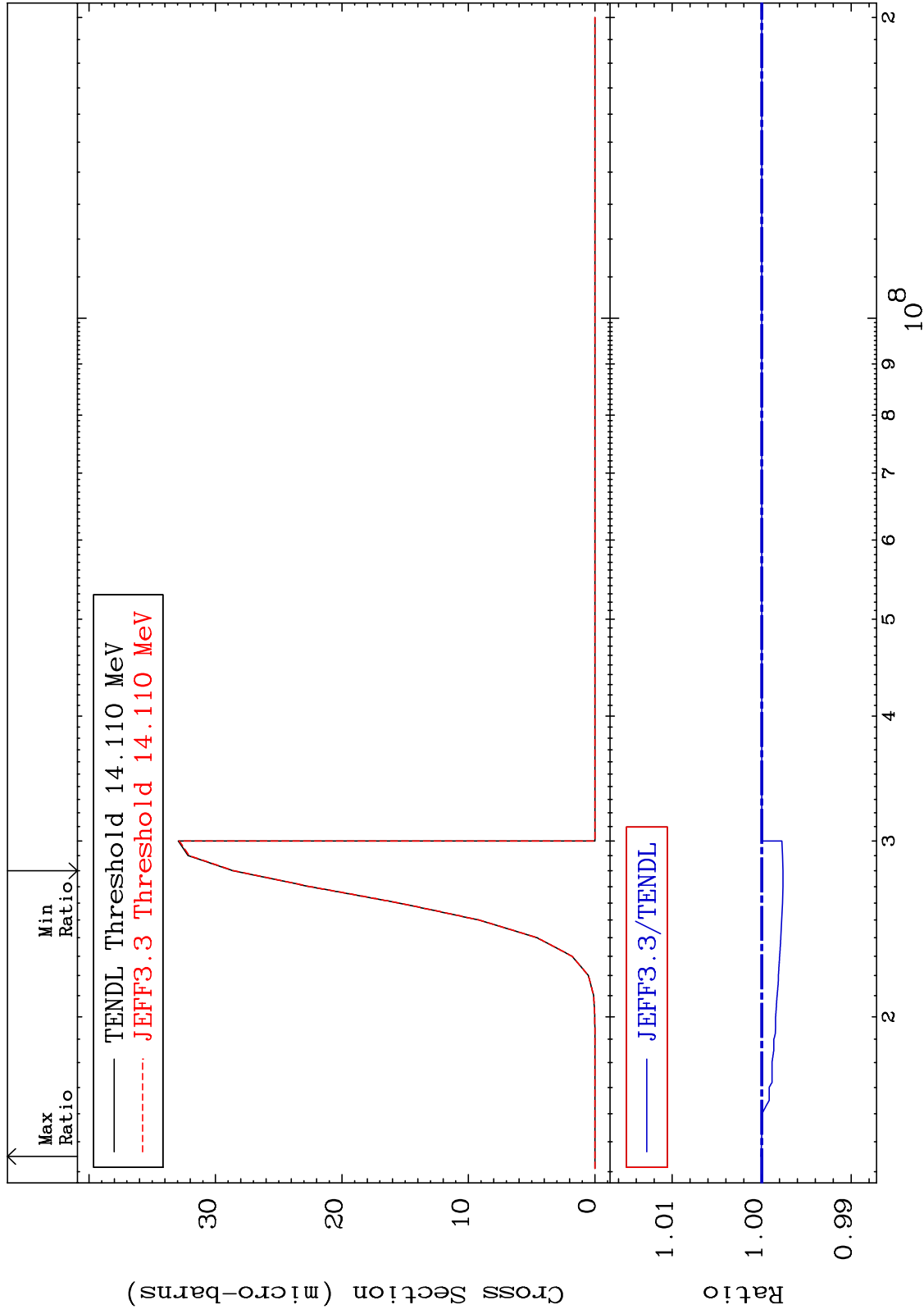
31-Ga-71

MAT 3131

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

31-Ga-71

Radionuclide Production Cross Section -0.237 To 0.009 %

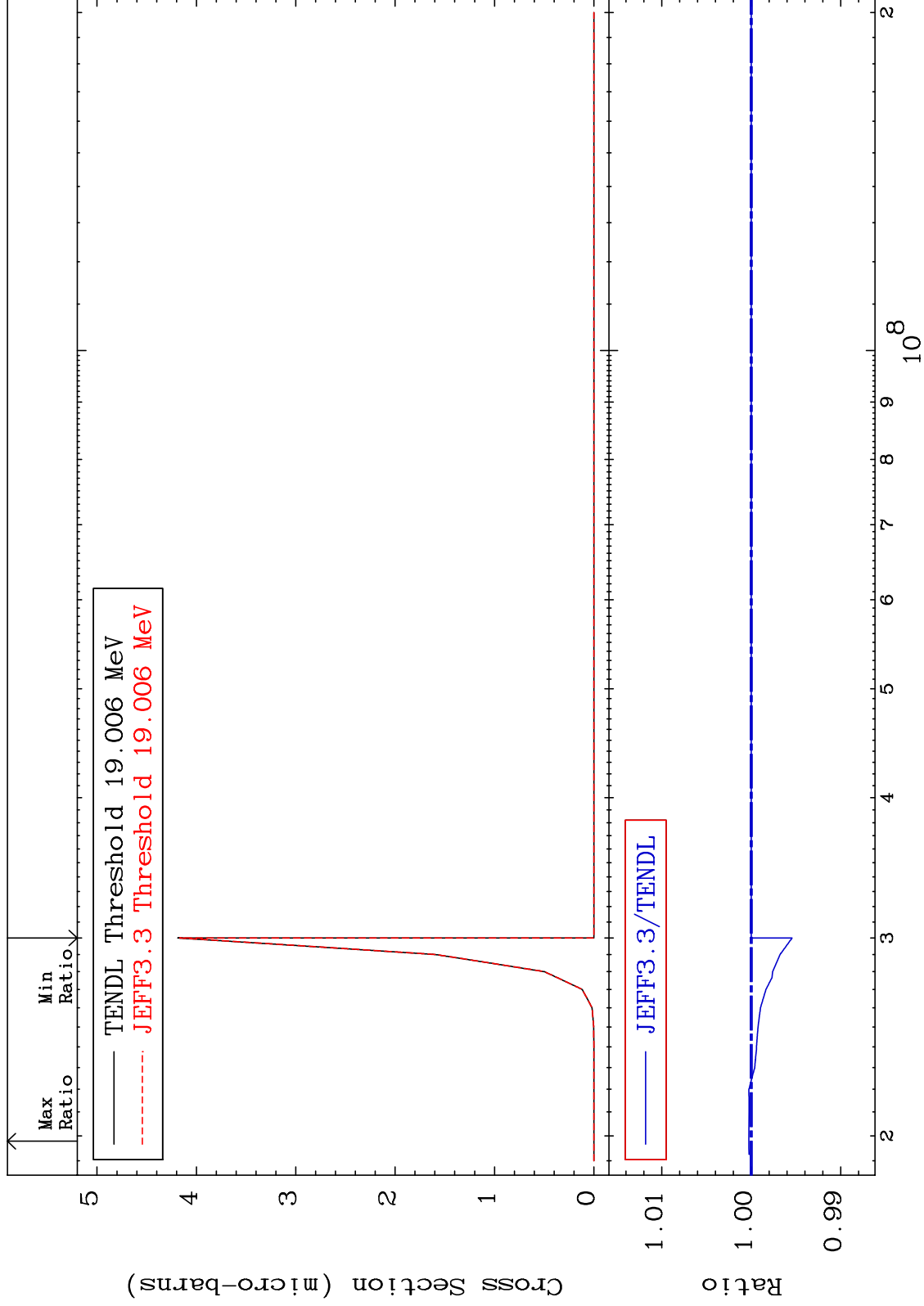


MAT 3131

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

31-Ga-71

Radionuclide Production Cross Section -0.457 To 0.026 %



75

Incident Energy (eV)

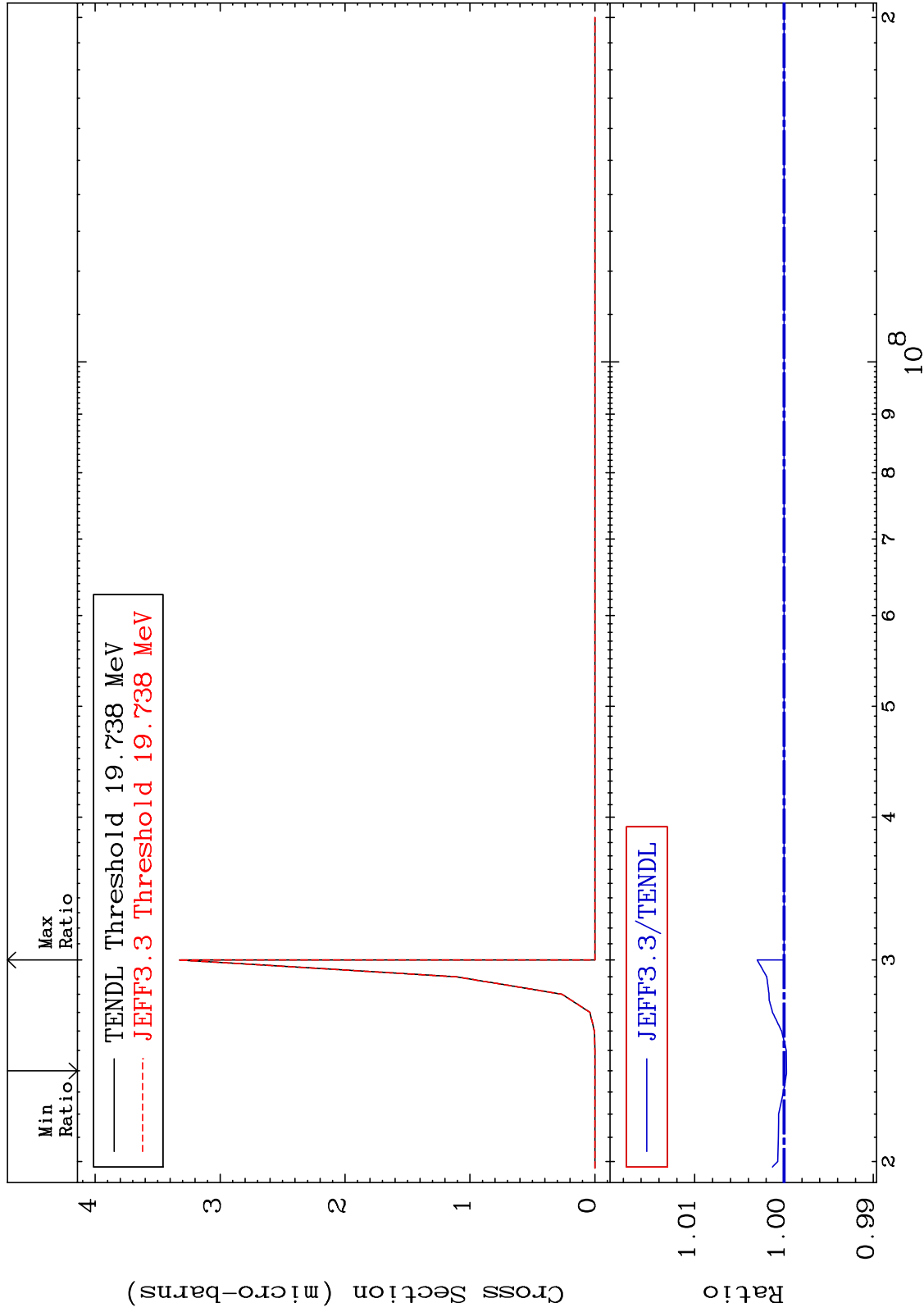
31-Ga-71

MAT 3131

(n,p) t:29-Cu-68m3

31-Ga-71

Radionuclide Production Cross Section -0.028 To 0.301 %



76

Incident Energy (eV)

31-Ga-71