

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](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

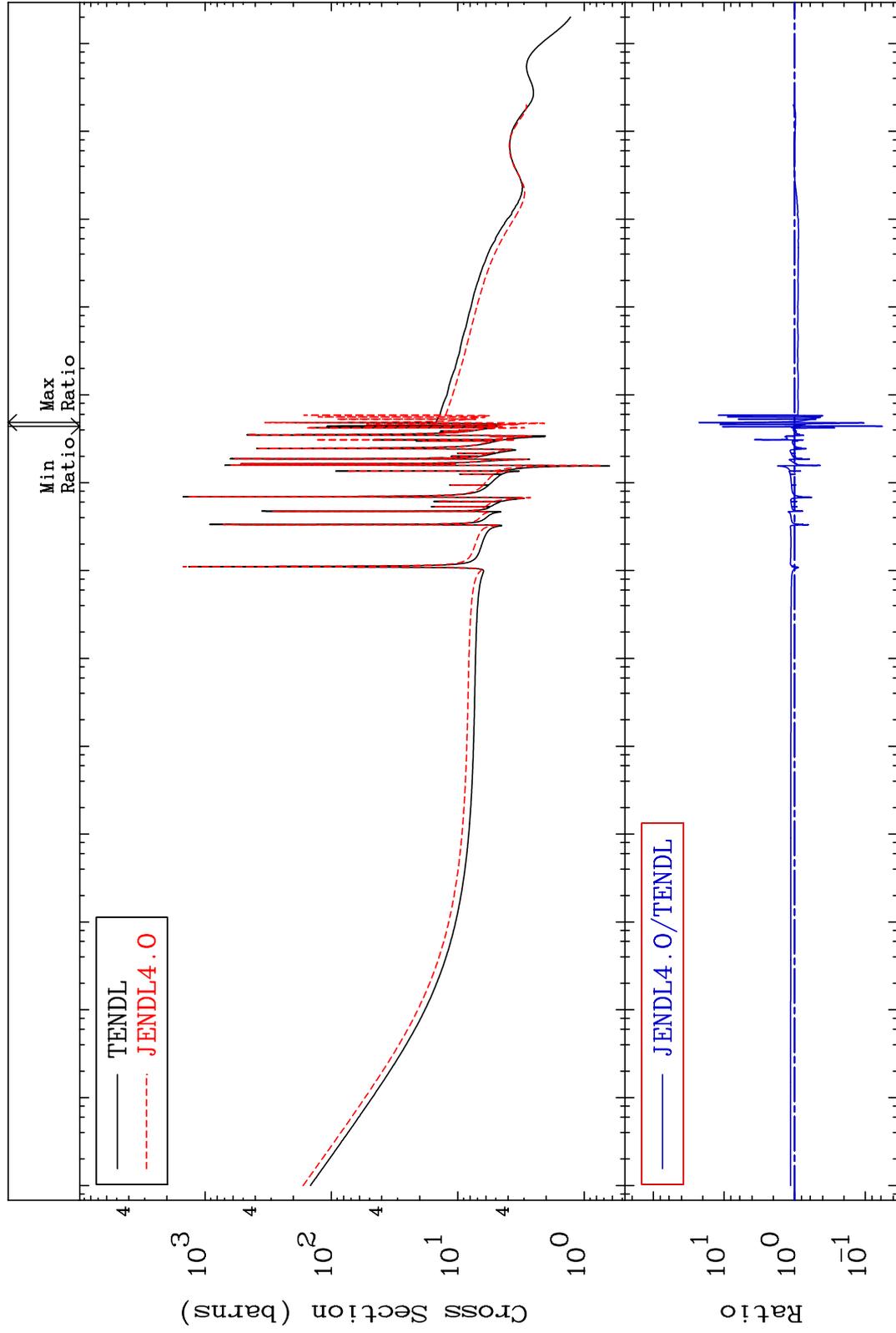
MAT 3125

Total

31-Ga-69

Cross Section

-94.24 To 2156. %



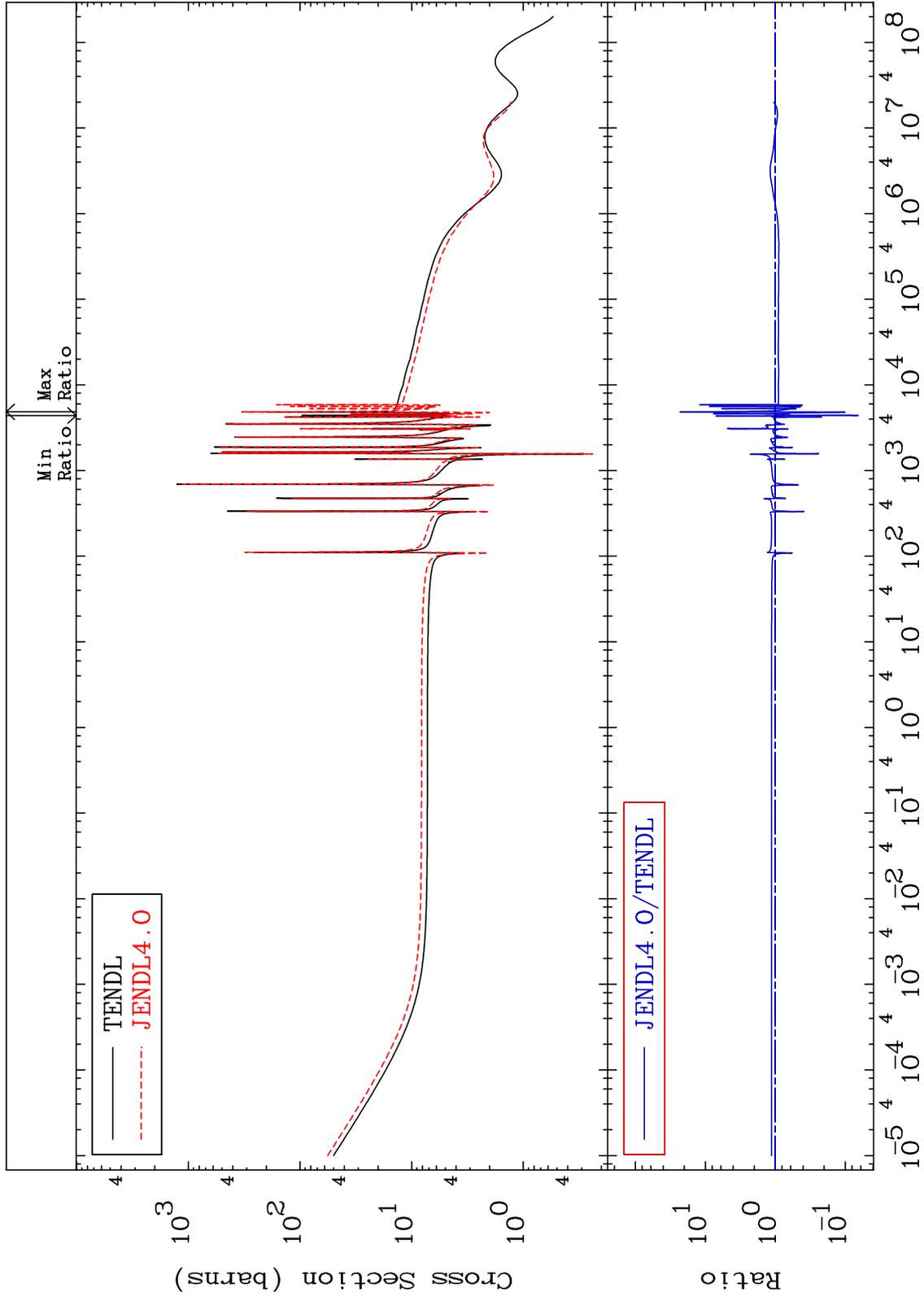
Incident Energy (eV)

31-Ga-69

MAT 3125

Elastic  
Cross Section

31-Ga-69  
-93.53 To 2205. %



Incident Energy (eV)

31-Ga-69

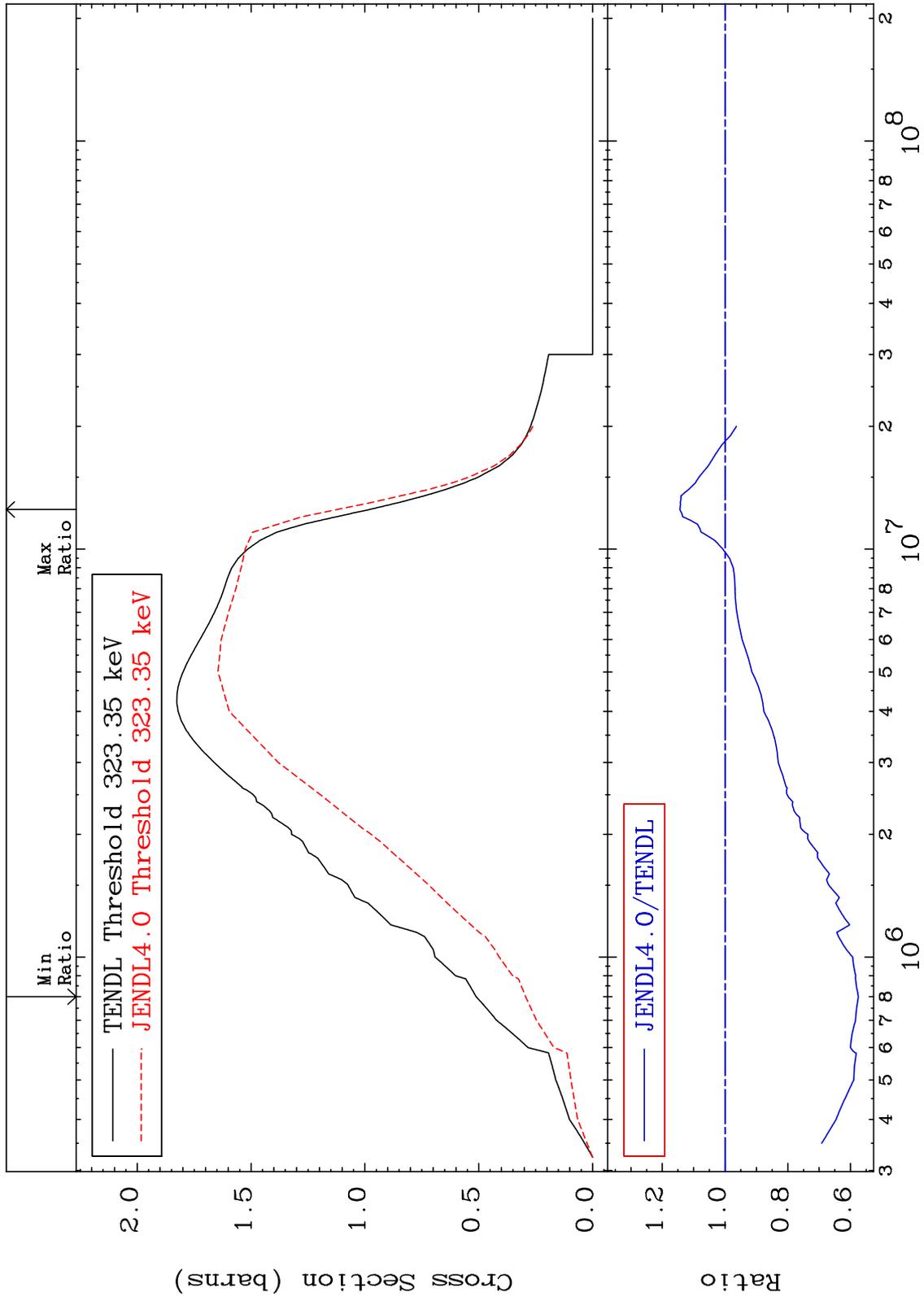
2

MAT 3125

31-Ga-69

-42.50 To 14.38 %

Inelastic  
Cross Section



3

Incident Energy (eV)

31-Ga-69

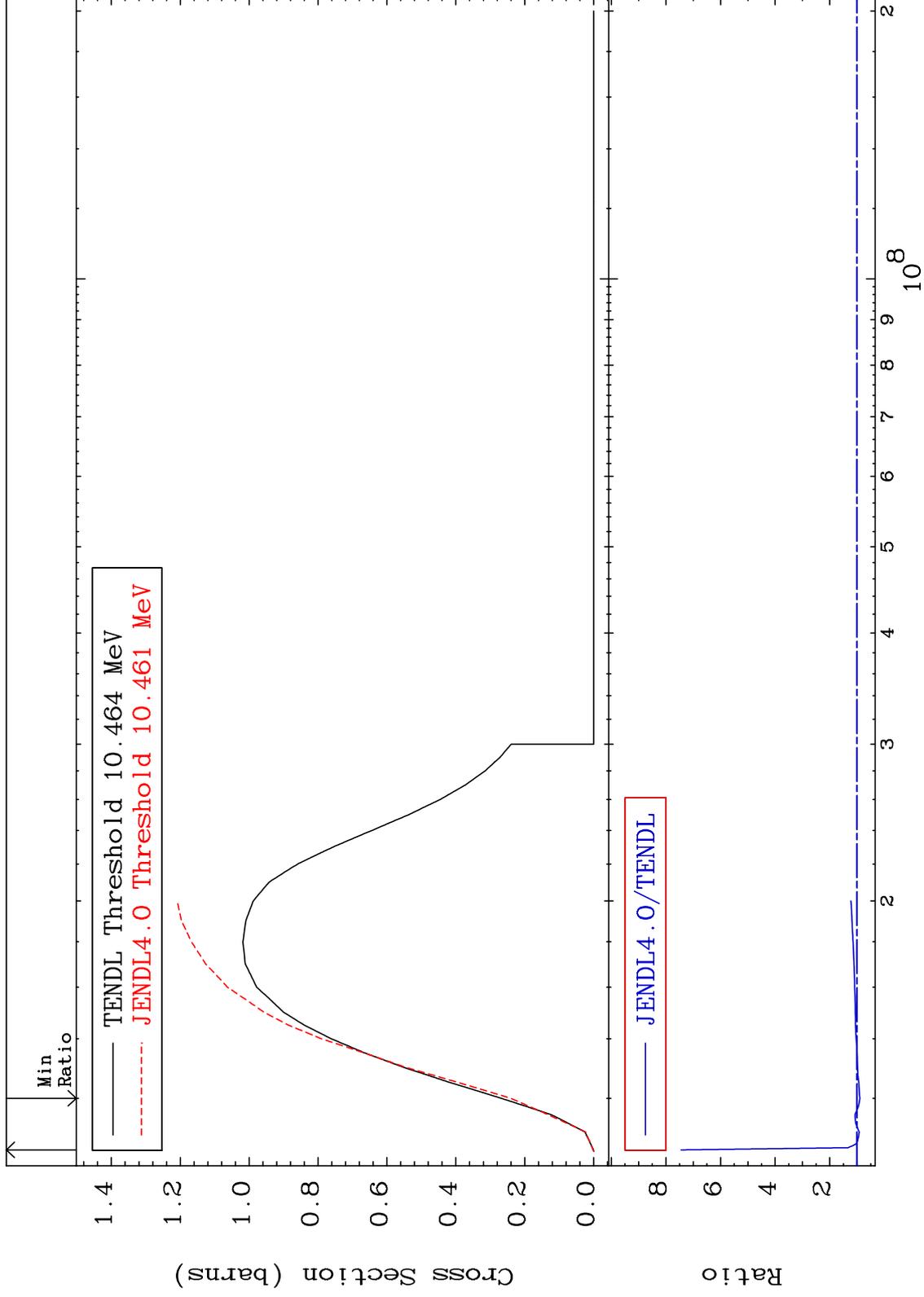
MAT 3125

(n,2n)

31-Ga-69

Cross Section

-10.35 To 644.3 %



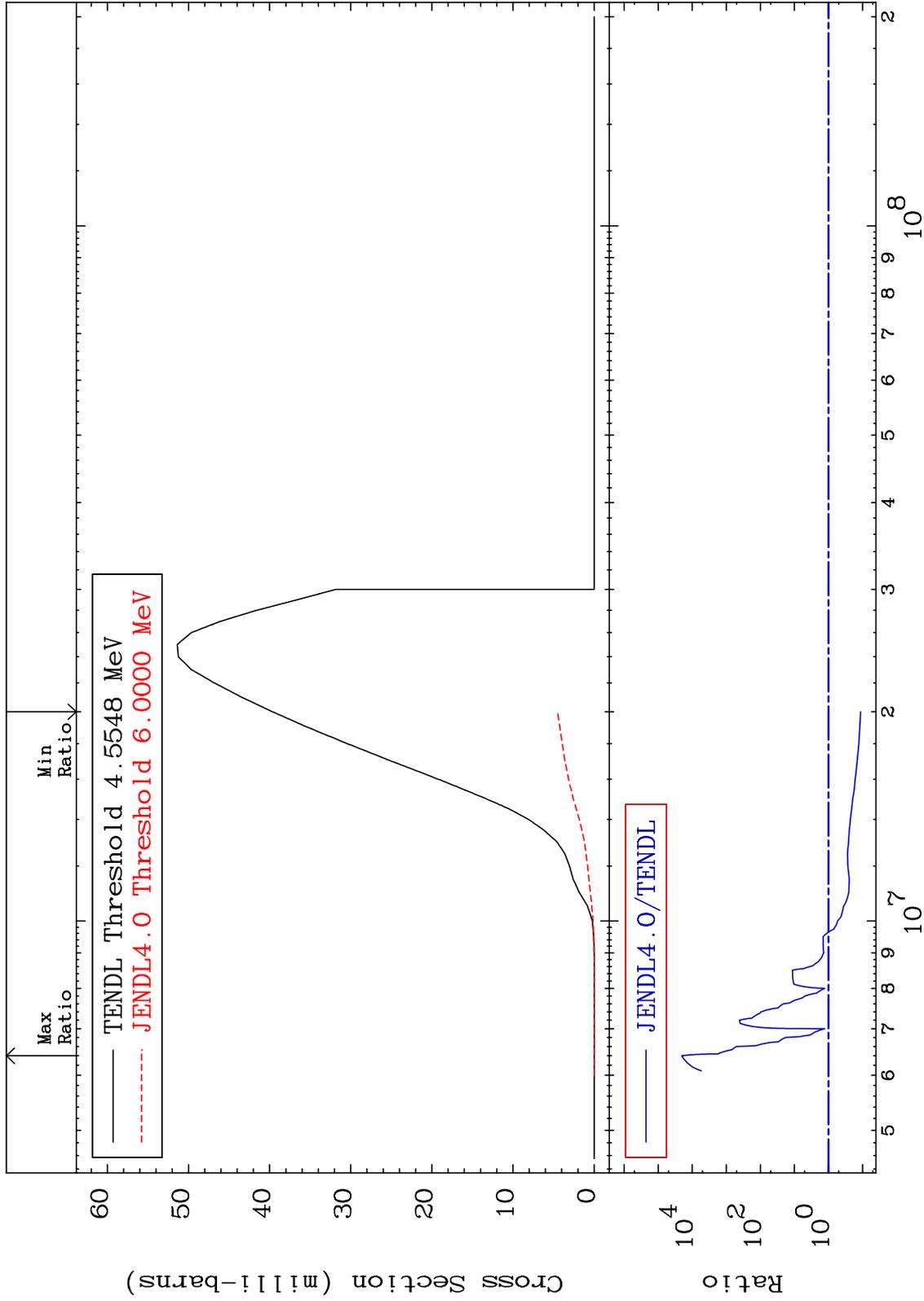
MAT 3125

$(n, n') \alpha$

31-Ga-69

Cross Section

-88.66 To 9999. %



5

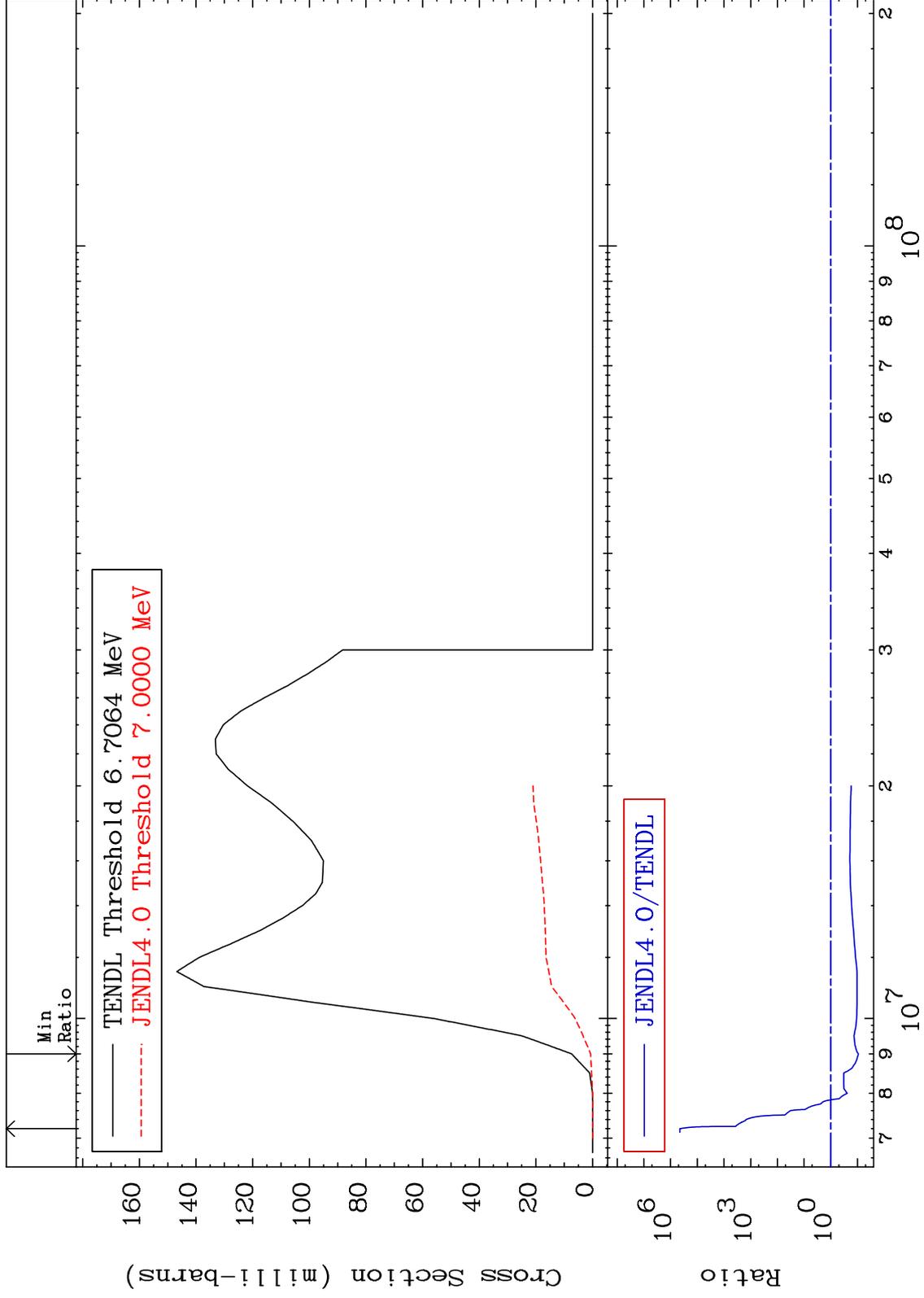
Incident Energy (eV)

31-Ga-69

MAT 3125

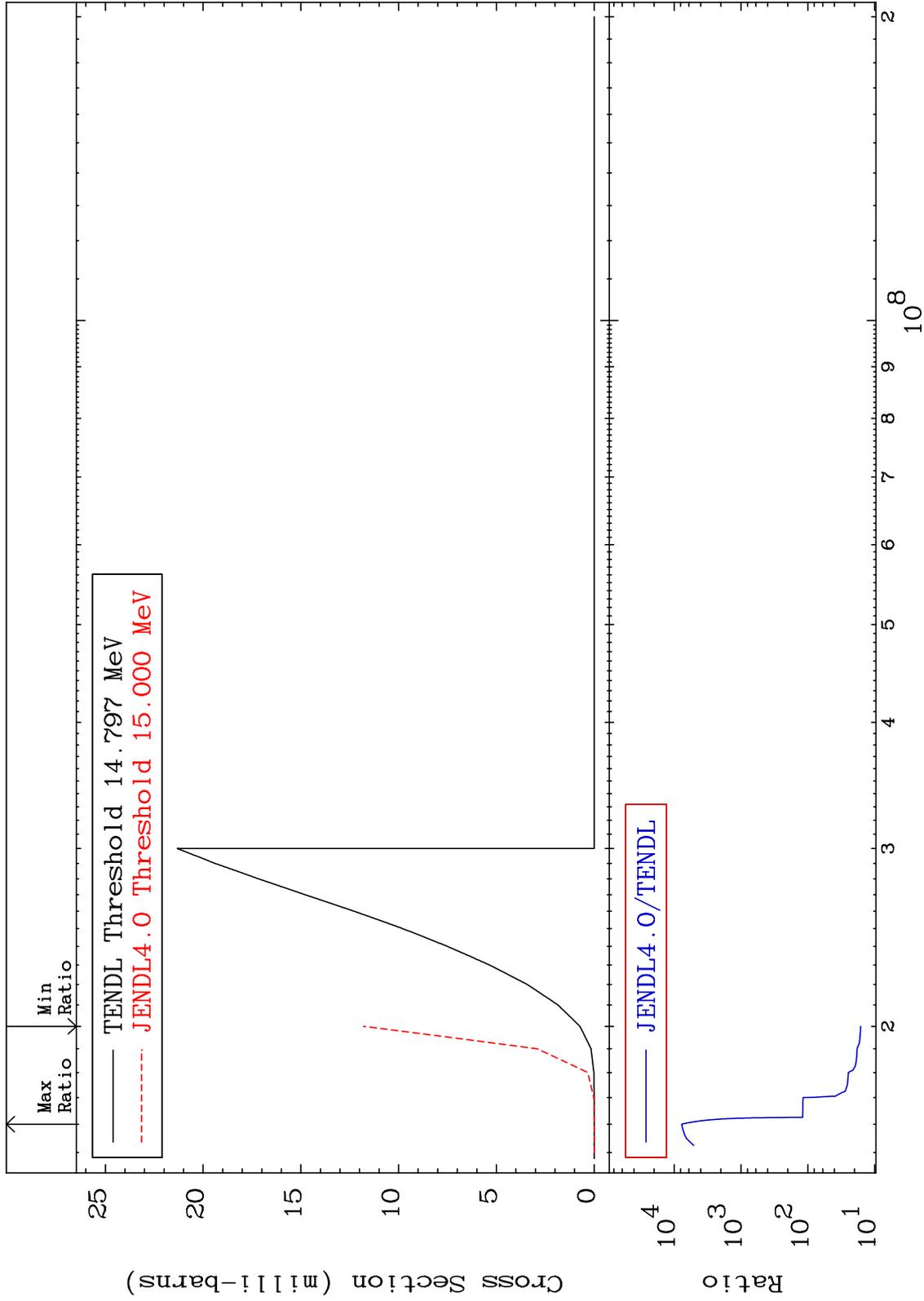
(n,n') p  
Cross Section

31-Ga-69  
-90.70 To 9999. %



Cross Section

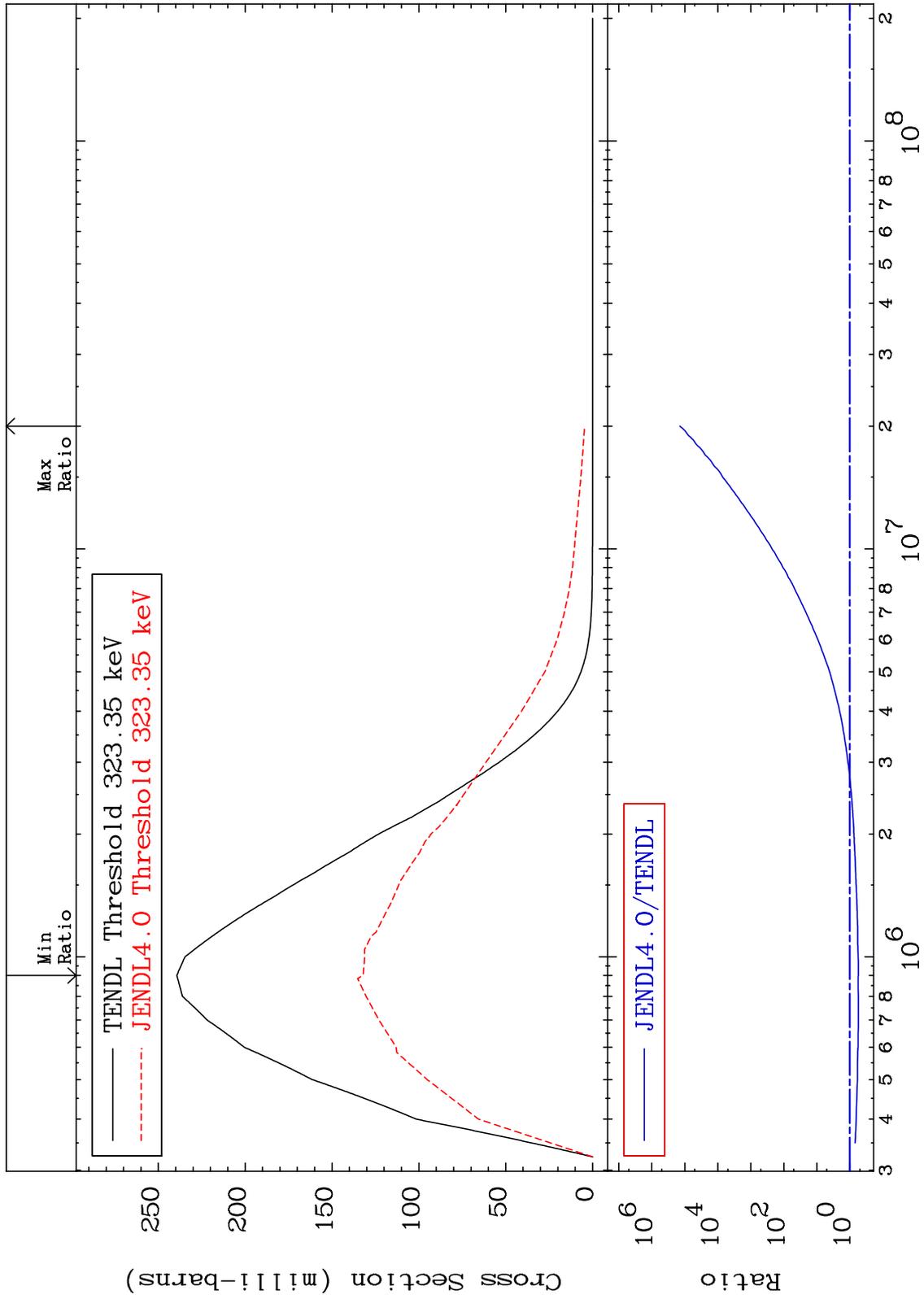
1522. To 9999. %



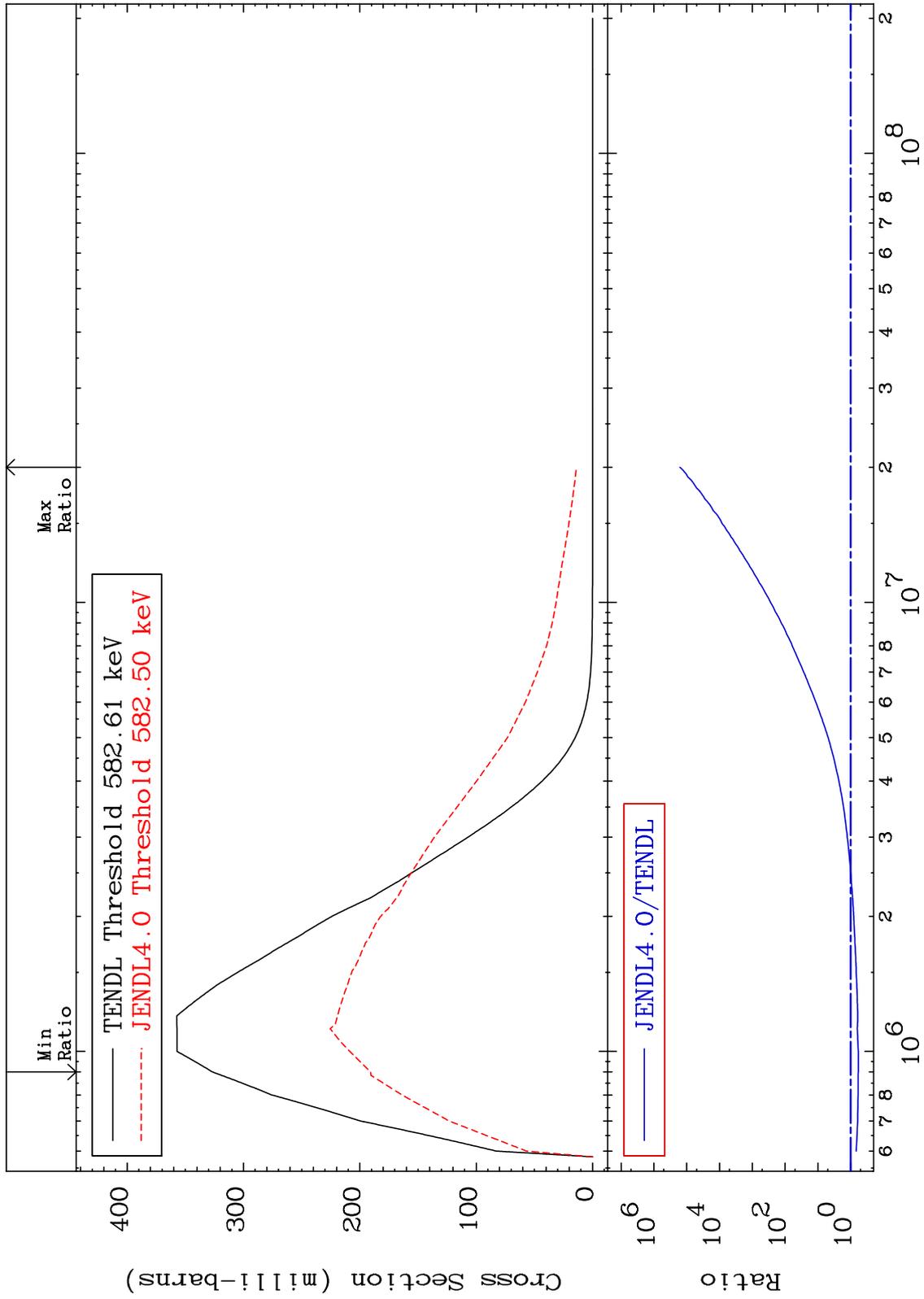
MAT 3125

MT= 51 (n,n') Level  
Cross Section

31-Ga-69  
-44.81 To 9999. %



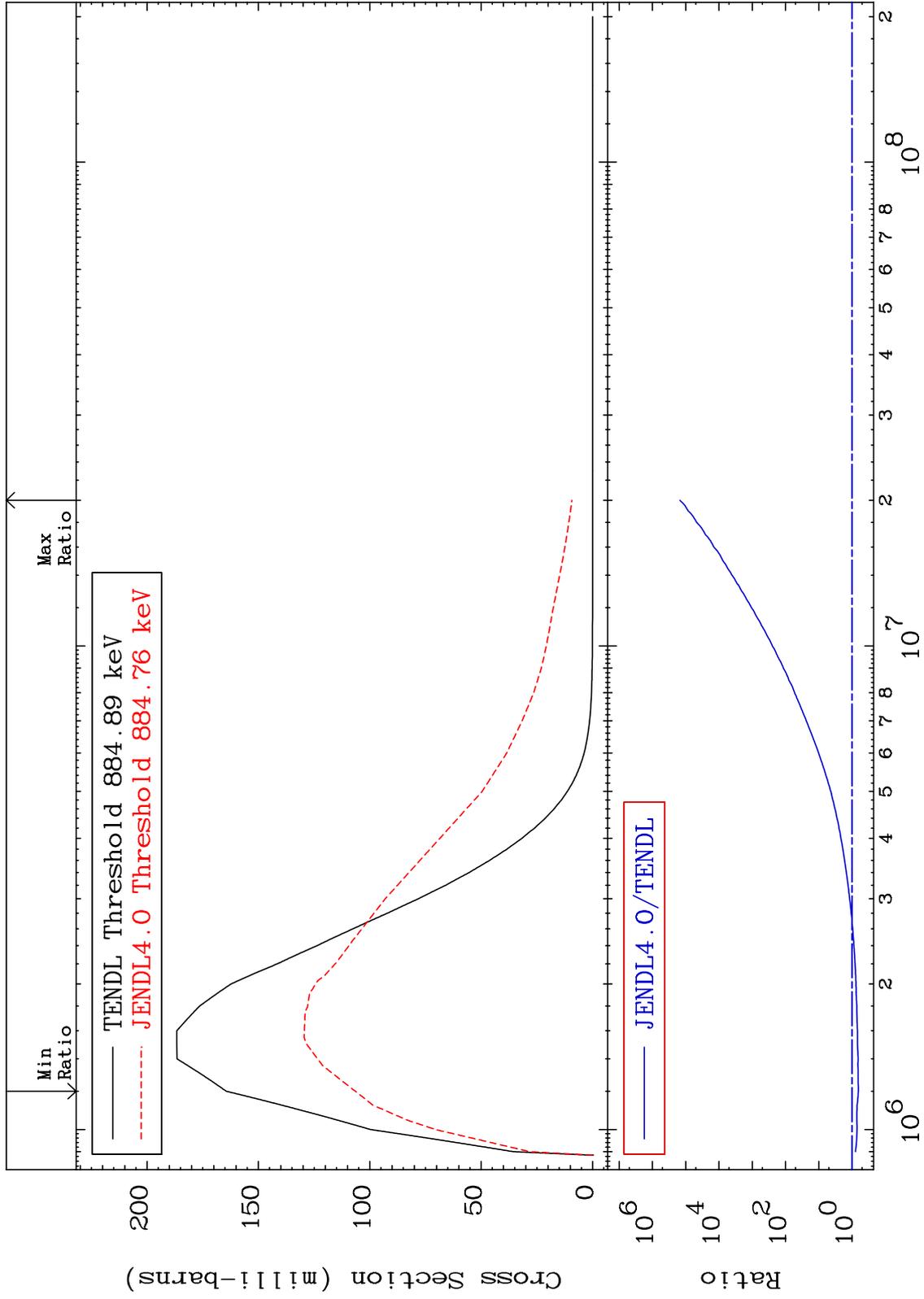
MAT 3125 MT= 52 (n,n') Level Cross Section -41.61 To 9999. % 31-Ga-69



MAT 3125

MT= 53 (n,n') Level  
Cross Section

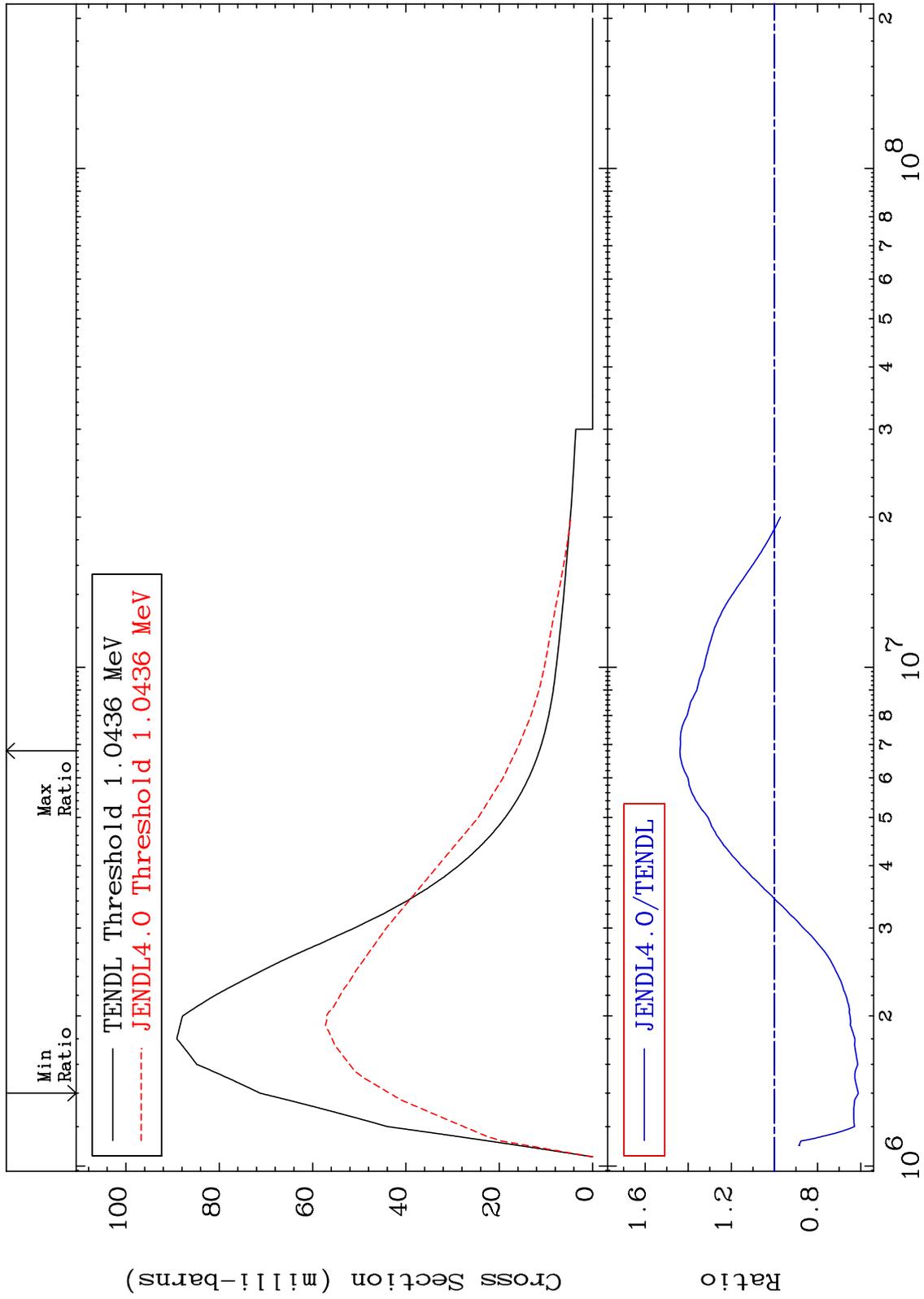
31-Ga-69  
-35.23 To 9999. %

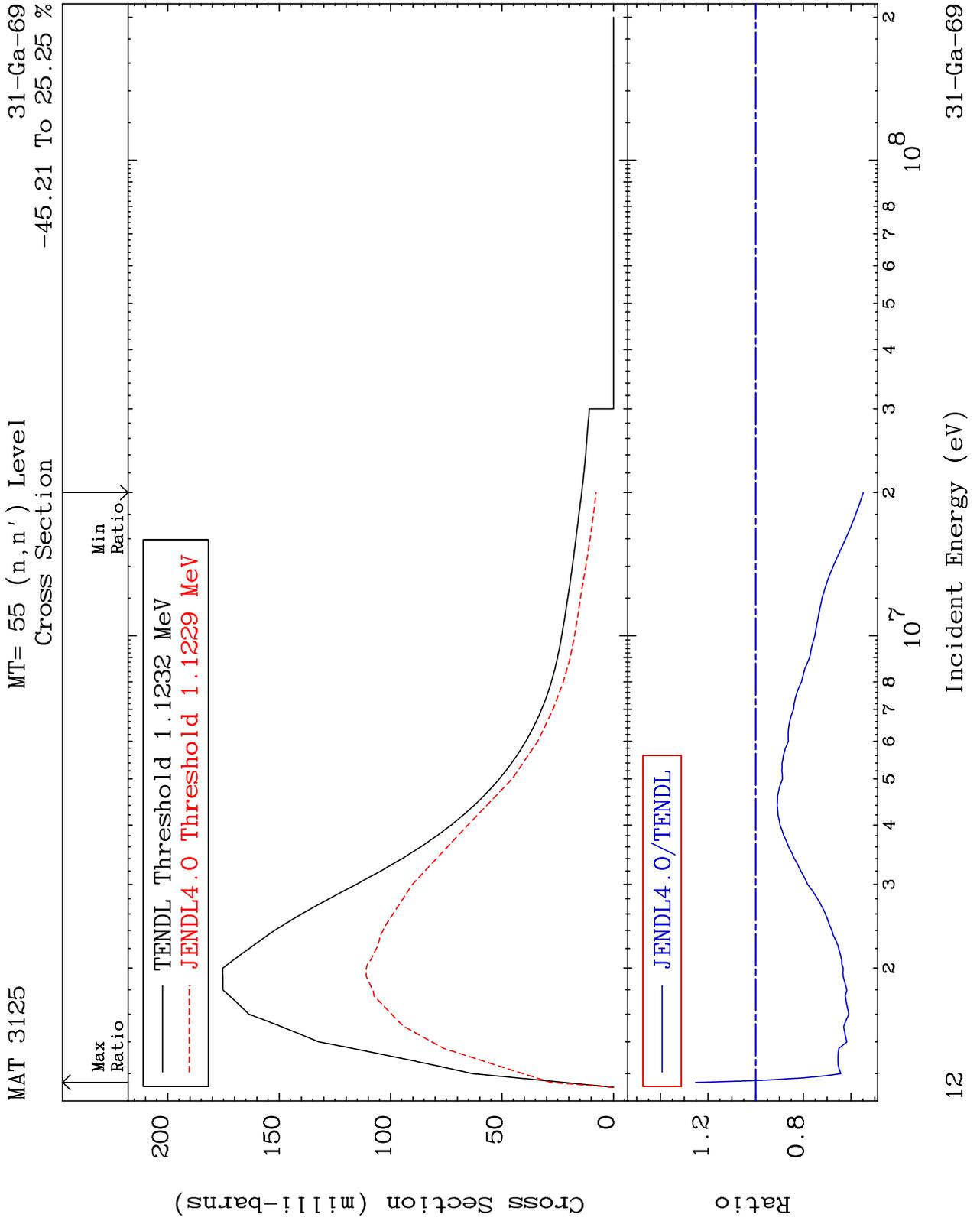


Incident Energy (eV)

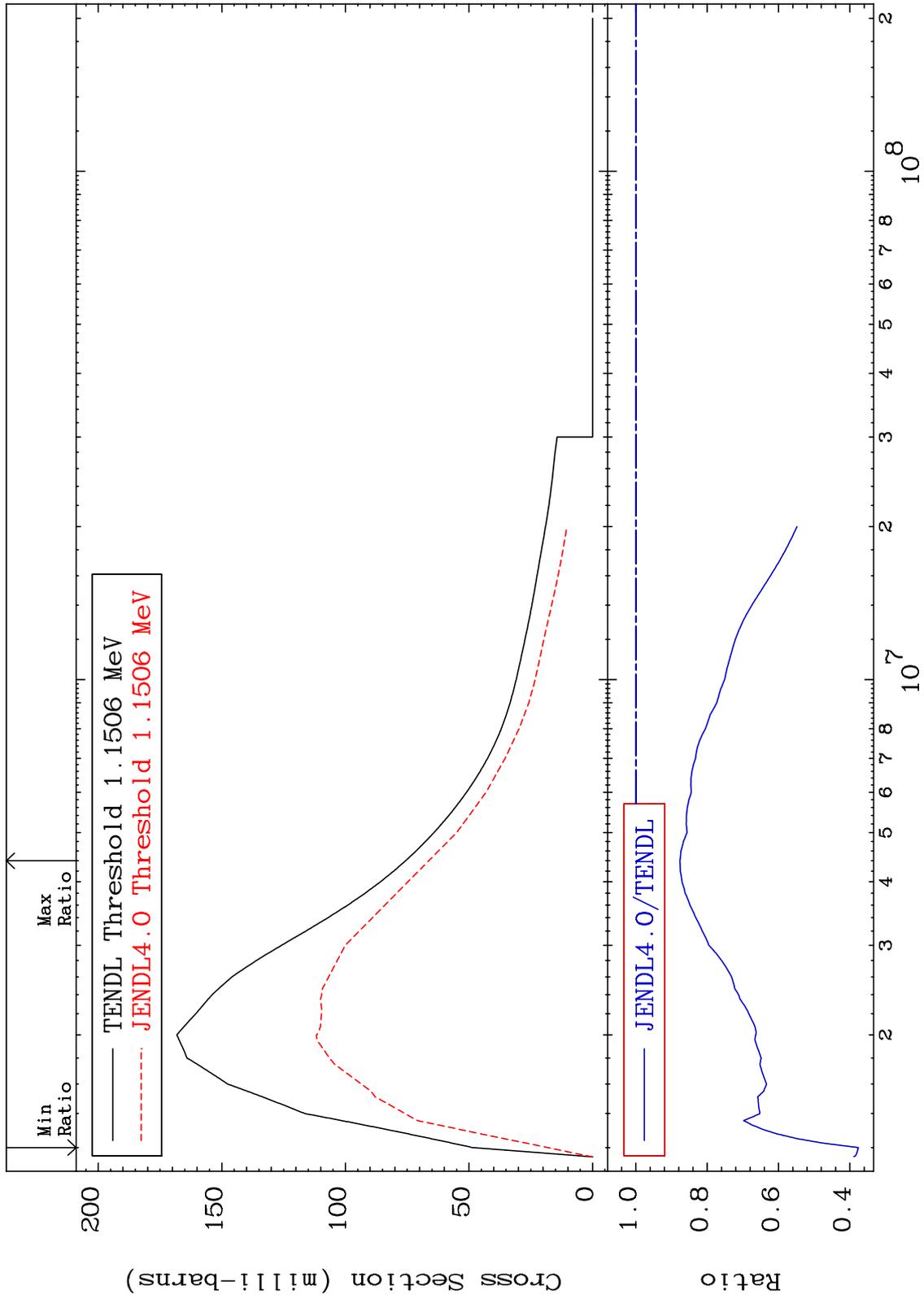
31-Ga-69

MAT 3125 MT= 54 (n,n') Level Cross Section 31-Ga-69  
 -38.95 To 43.85 %





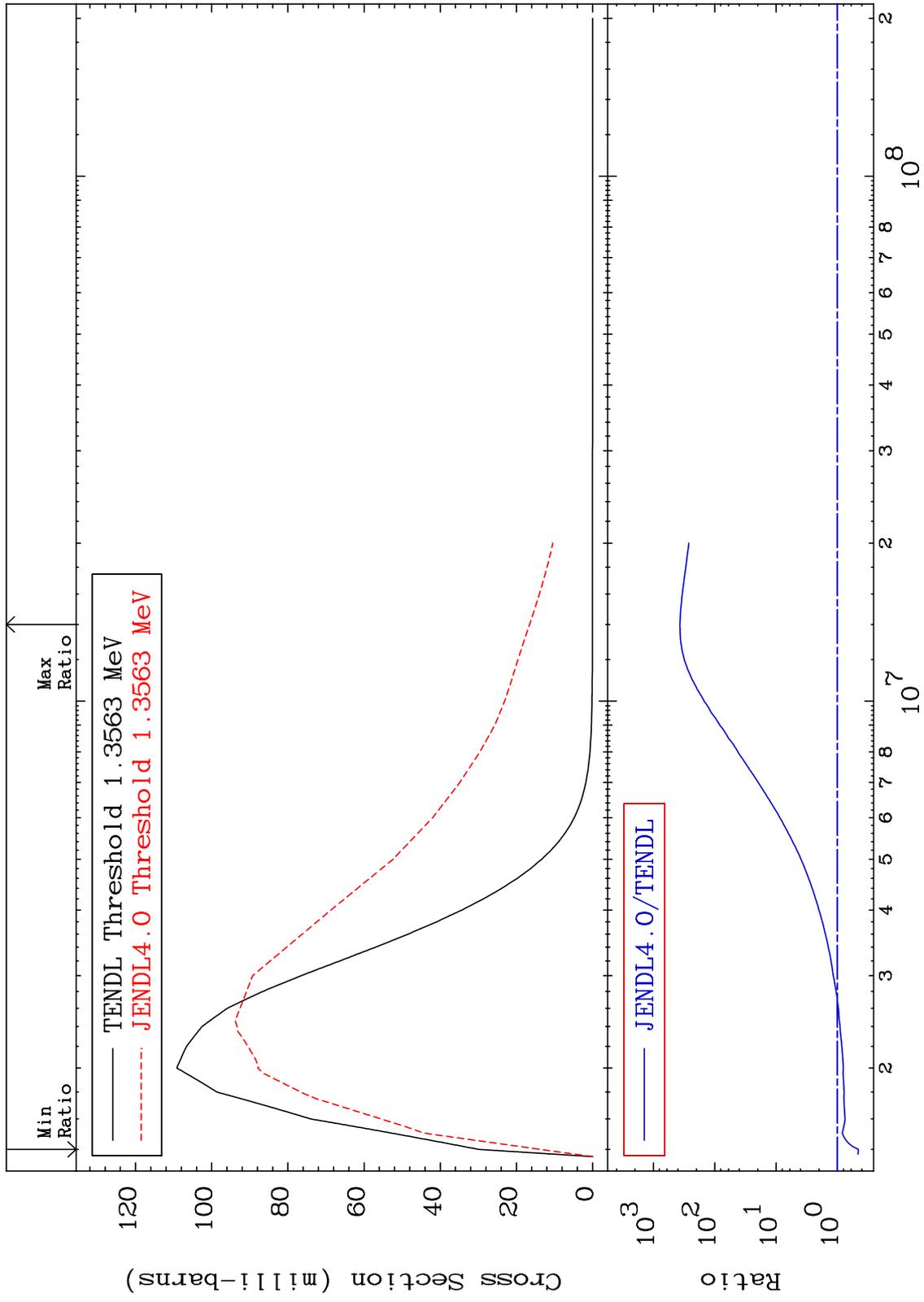
MAT 3125 MT= 56 (n,n') Level  
 Cross Section 31-Ga-69  
 -62.39 To -12.35%



31-Ga-69

Incident Energy (eV)

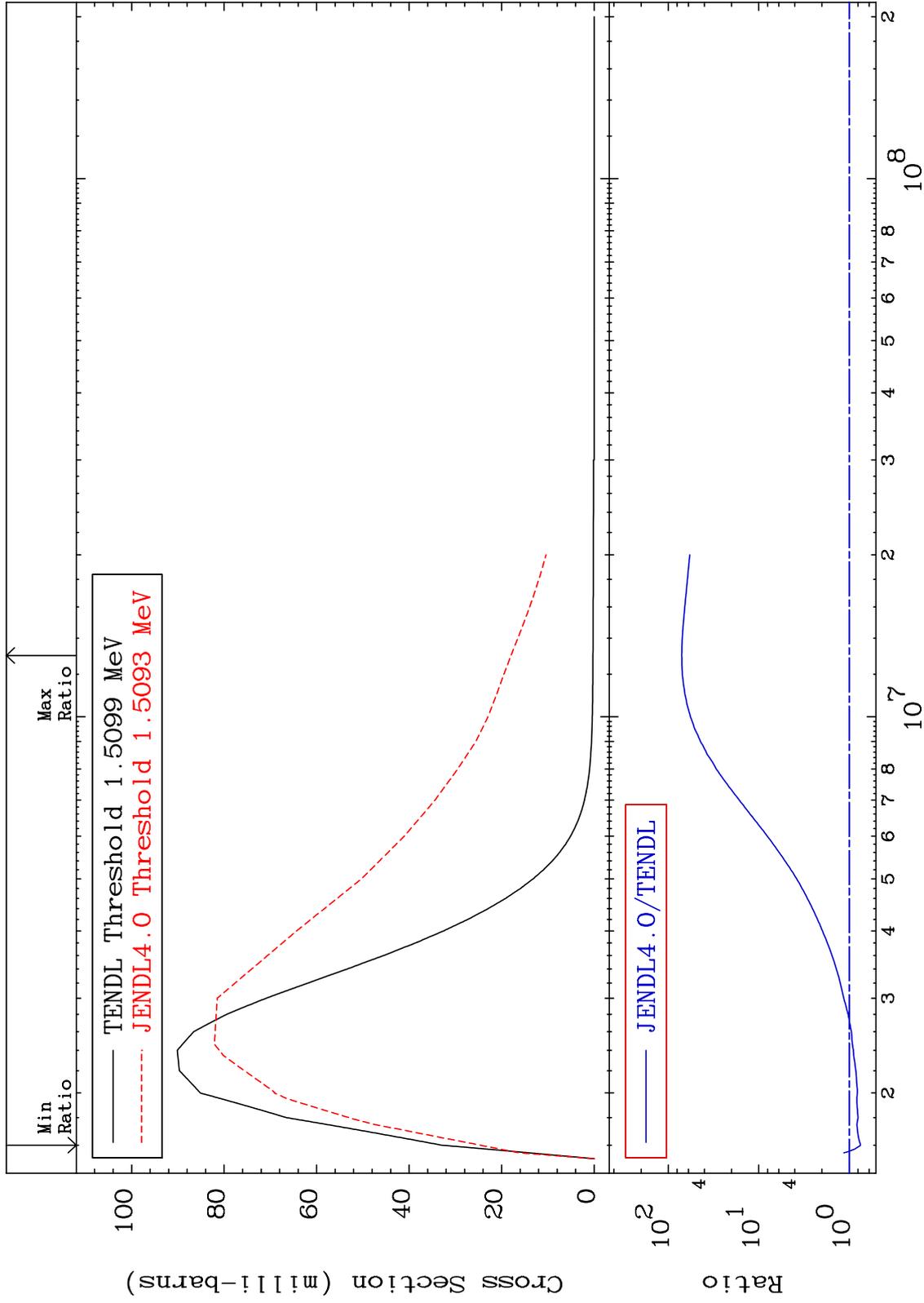
MAT 3125 MT= 57 (n,n') Level Cross Section 31-Ga-69  
 -54.40 To 9999. %



MAT 3125

MT= 58 (n,n') Level  
Cross Section

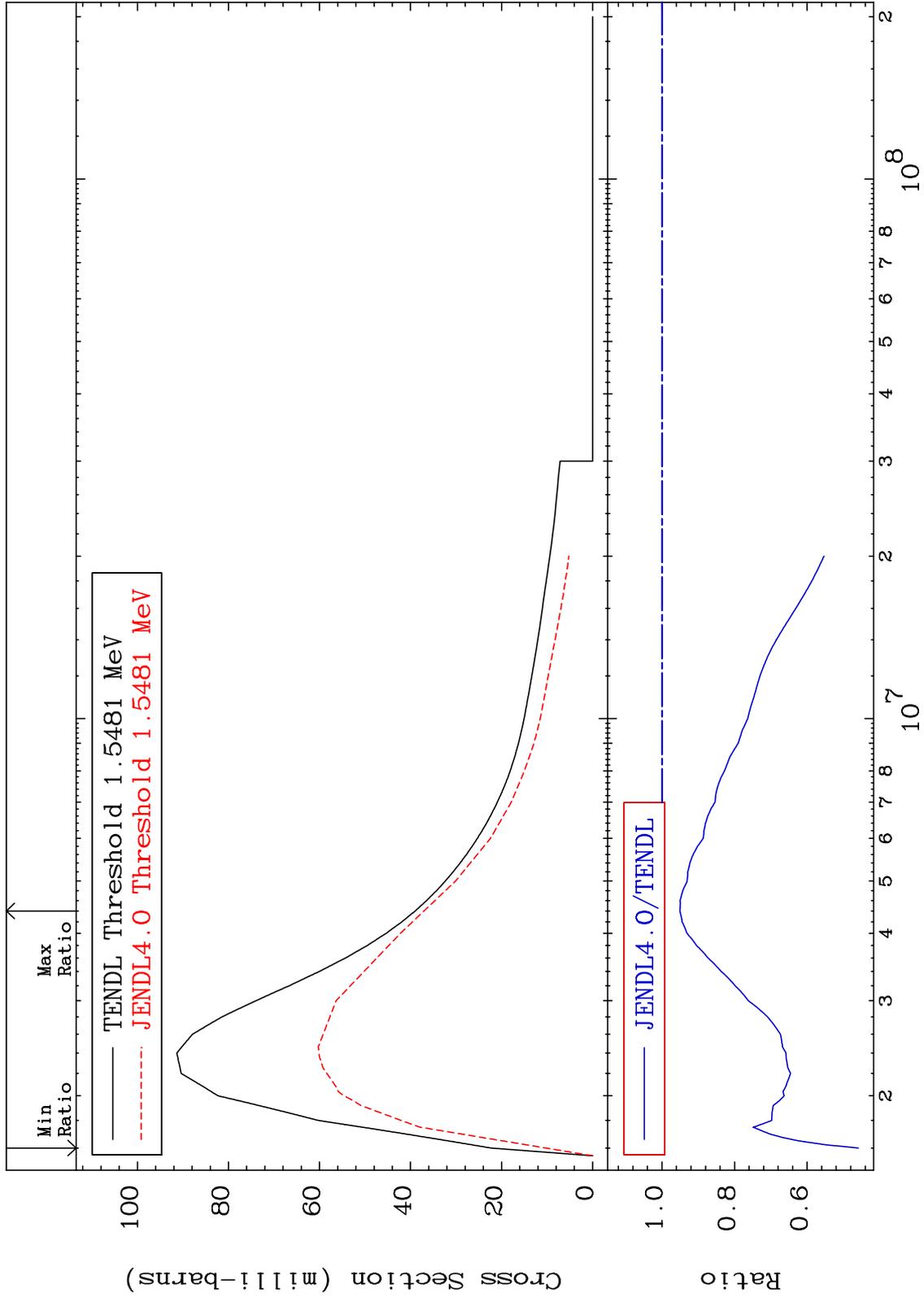
31-Ga-69  
-25.34 To 7012. %



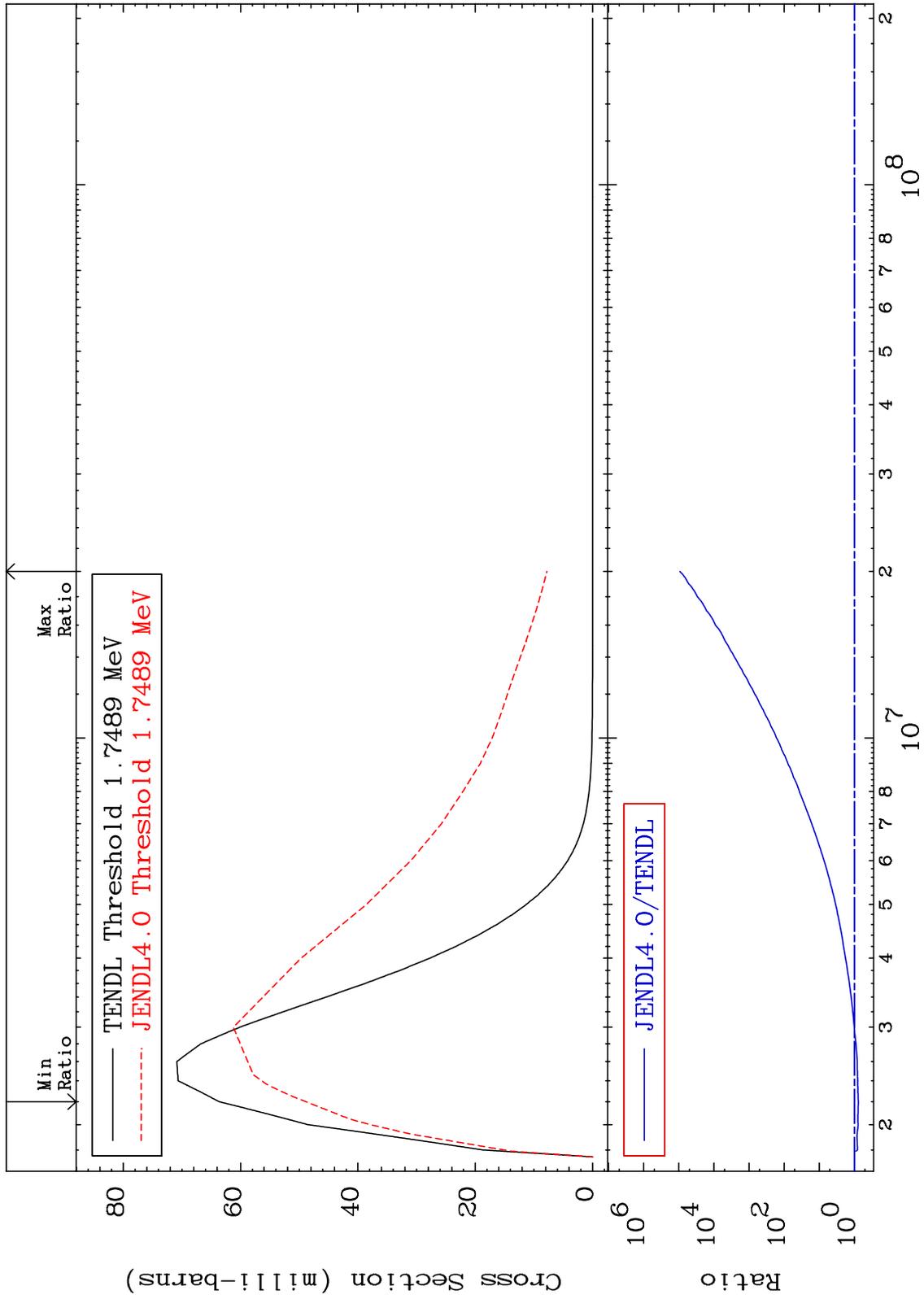
MAT 3125

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

31-Ga-69  
-54.11 To -4.953%



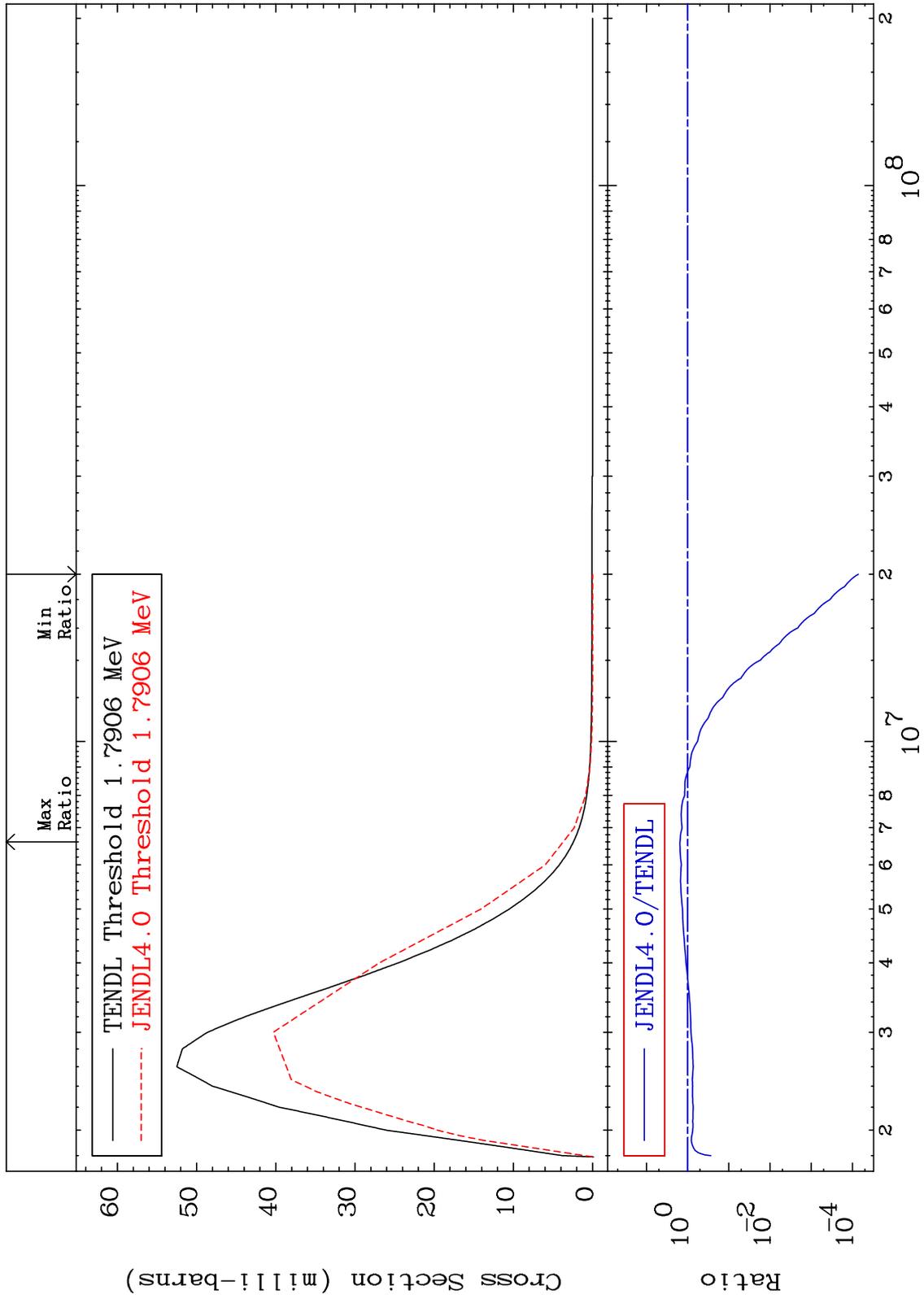
MAT 3125 MT= 60 (n,n') Level Cross Section 31-Ga-69  
-23.20 To 9999. %



MAT 3125

MT= 61 (n,n') Level  
Cross Section

31-Ga-69  
-99.99 To 53.89 %



18

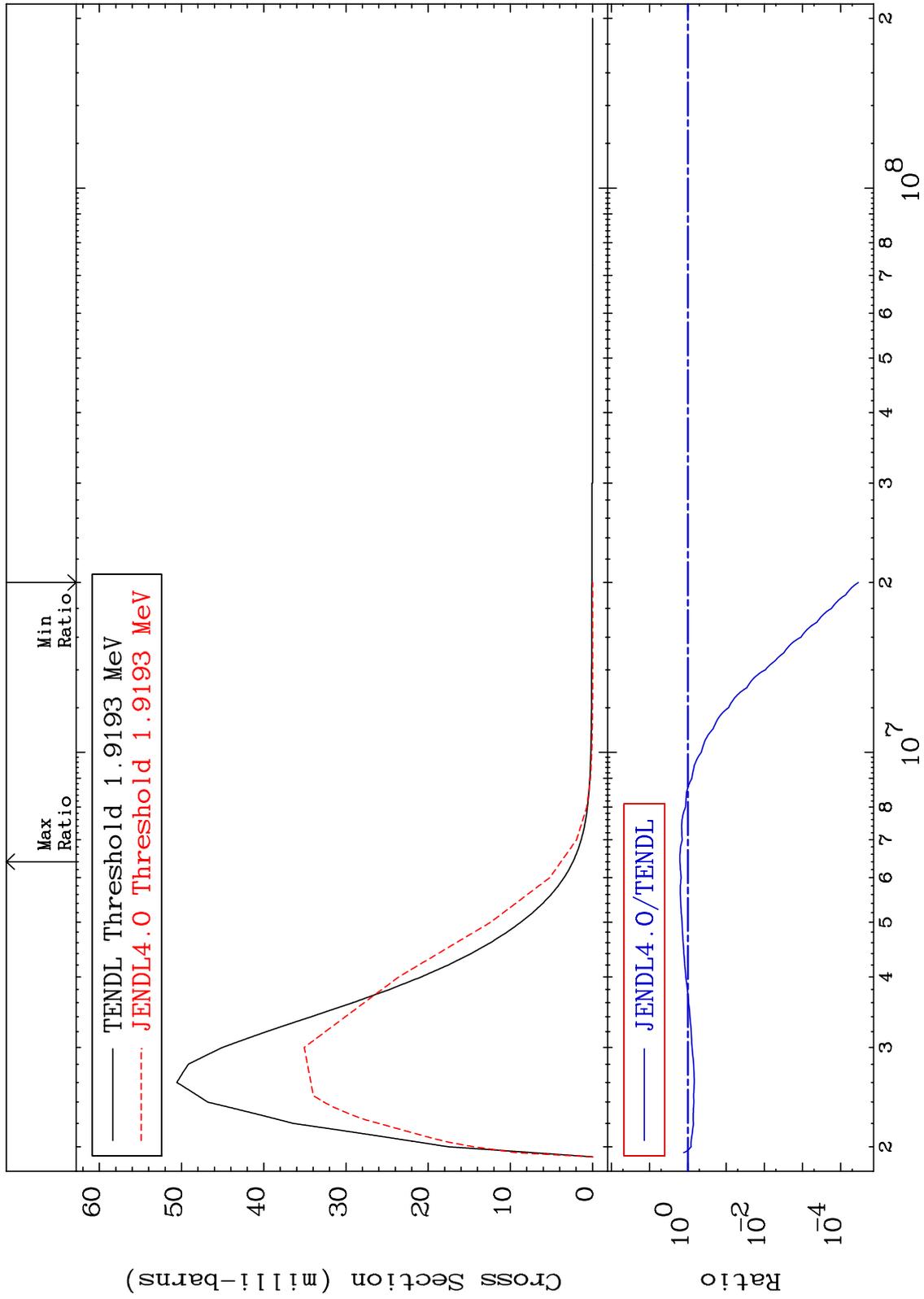
Incident Energy (eV)

31-Ga-69

MAT 3125

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

31-Ga-69  
-100.0 To 61.14 %



19

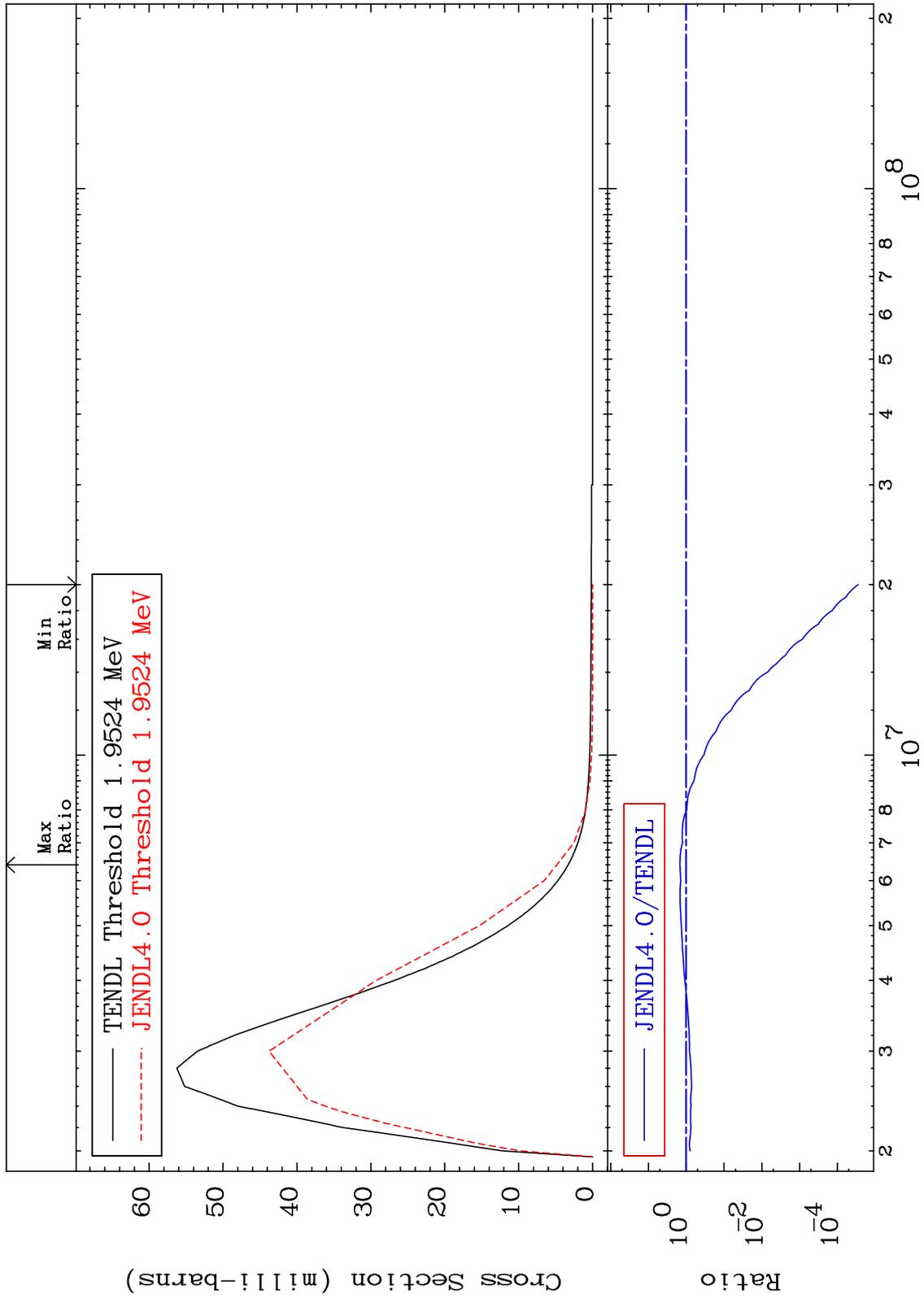
Incident Energy (eV)

31-Ga-69

MAT 3125

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

31-Ga-69  
-100.0 To 47.05 %



20

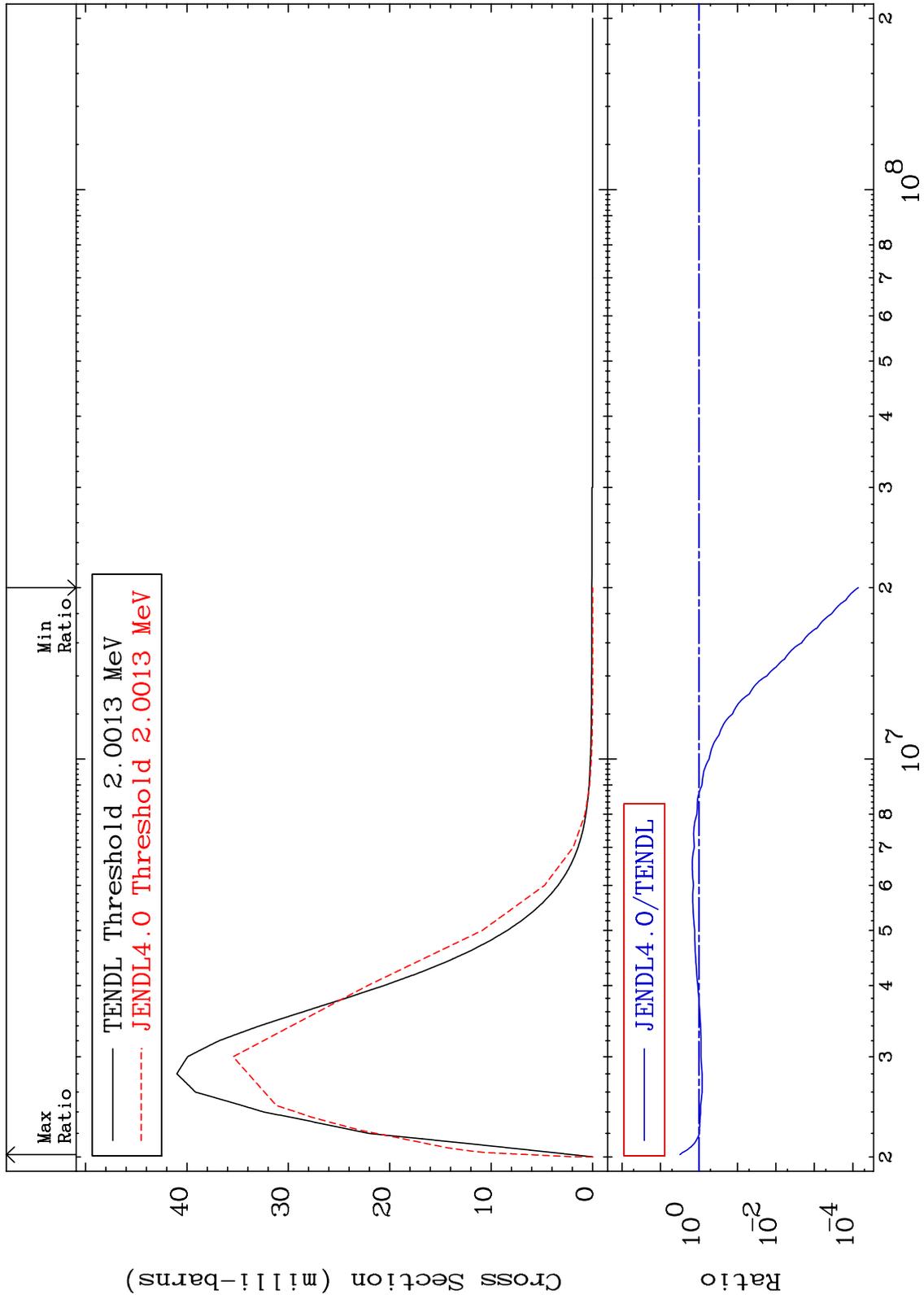
Incident Energy (eV)

31-Ga-69

MAT 3125

MT= 64 (n,n') Level  
Cross Section

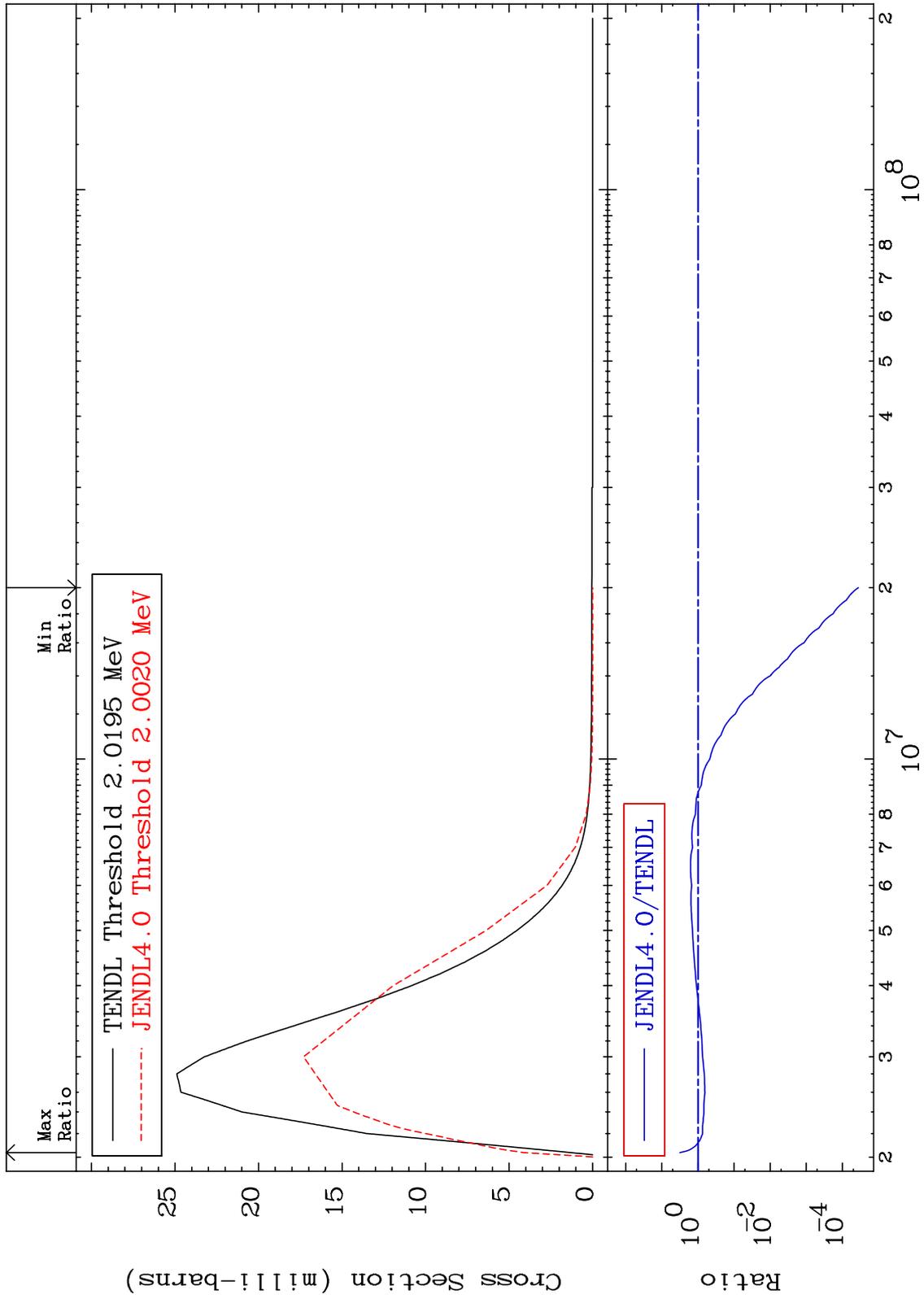
31-Ga-69  
-99.99 To 211.8 %



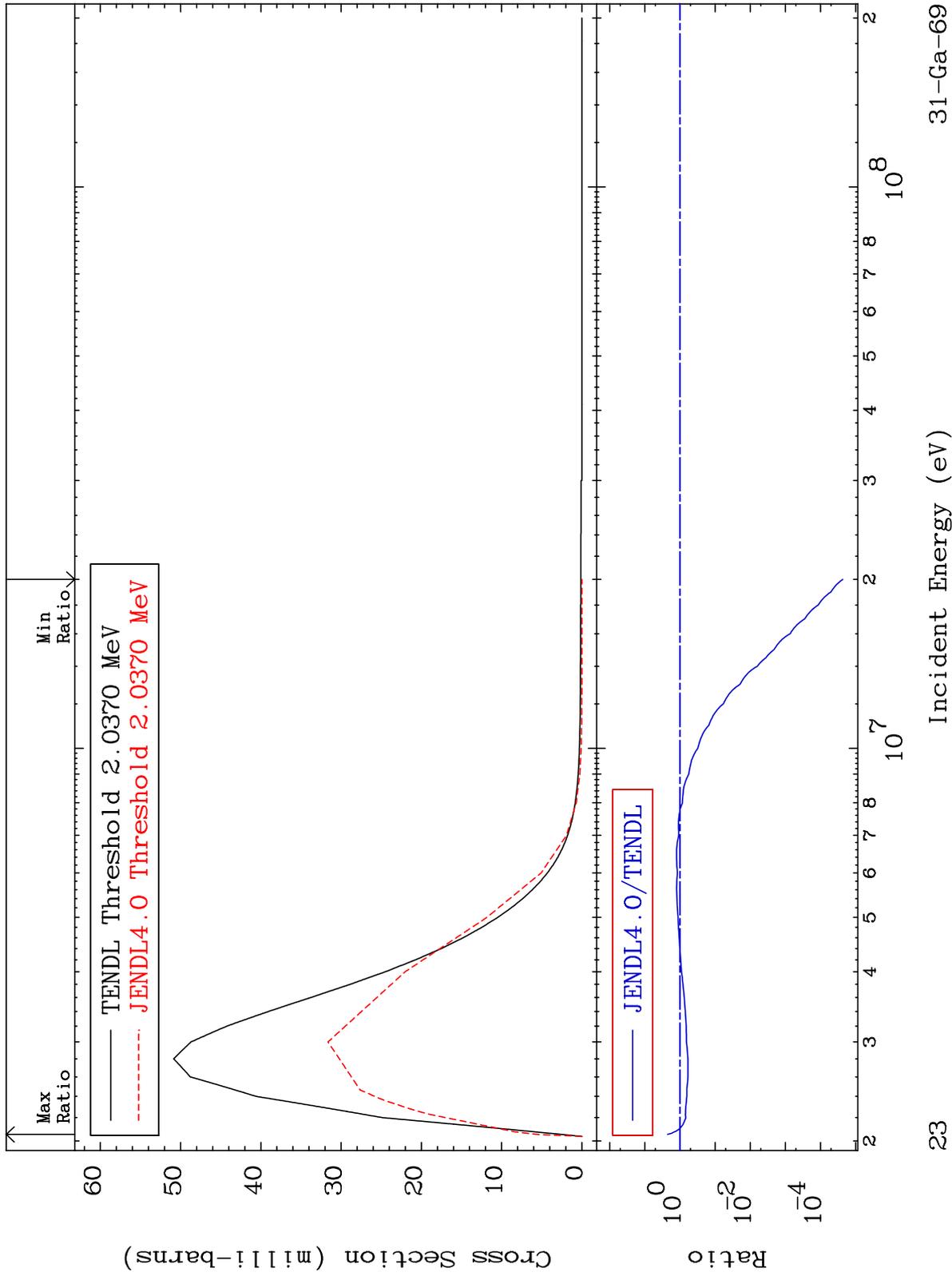
MAT 3125

MT= 65 (n,n') Level  
Cross Section

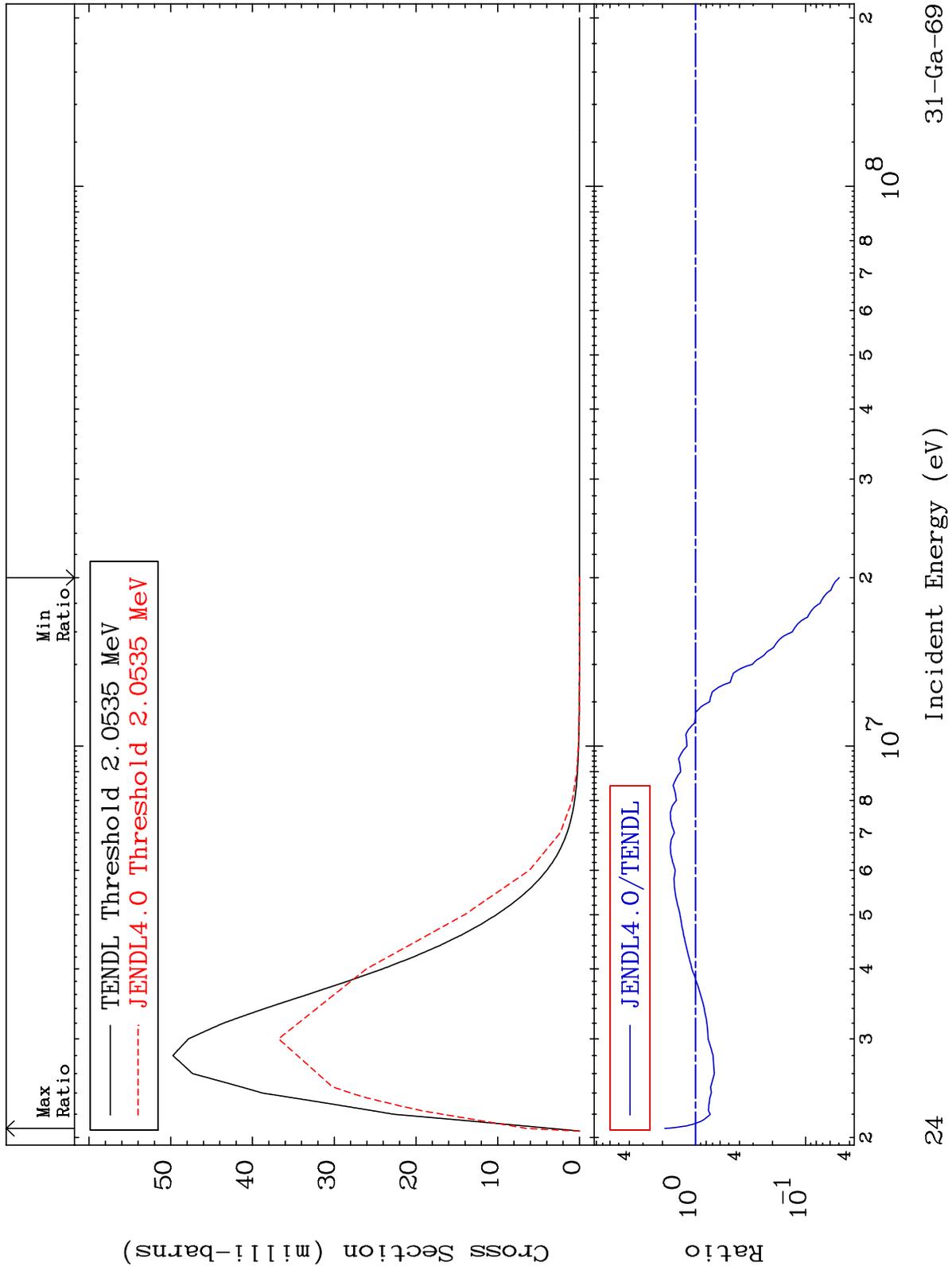
31-Ga-69  
-100.0 To 214.7 %



MAT 3125 MT= 66 (n,n') Level Cross Section -100.0 To 123.8 % 31-Ga-69



MAT 3125 MT= 67 (n,n') Level Cross Section 31-Ga-69  
 -95.06 To 90.33 %



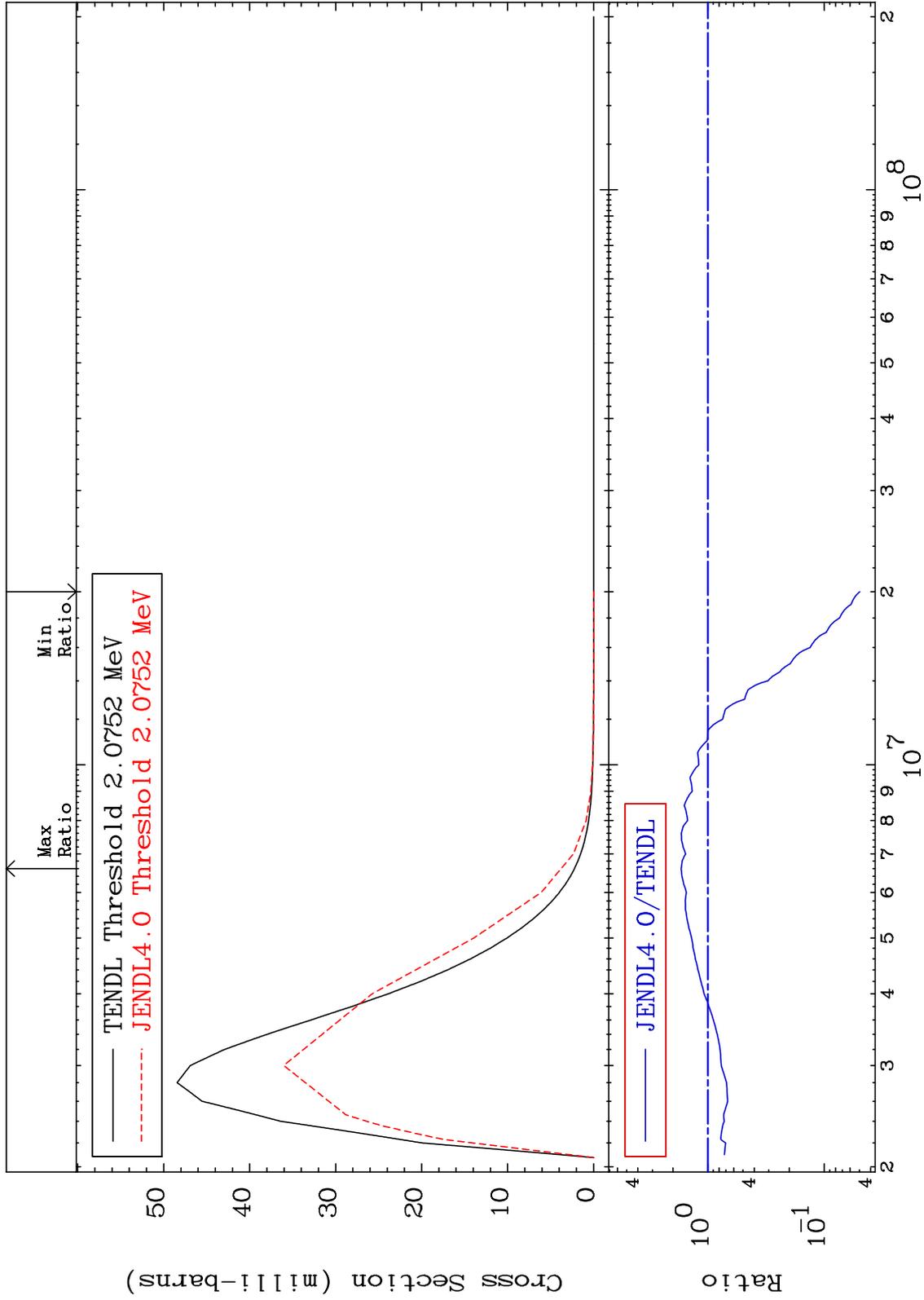
31-Ga-69

Incident Energy (eV)

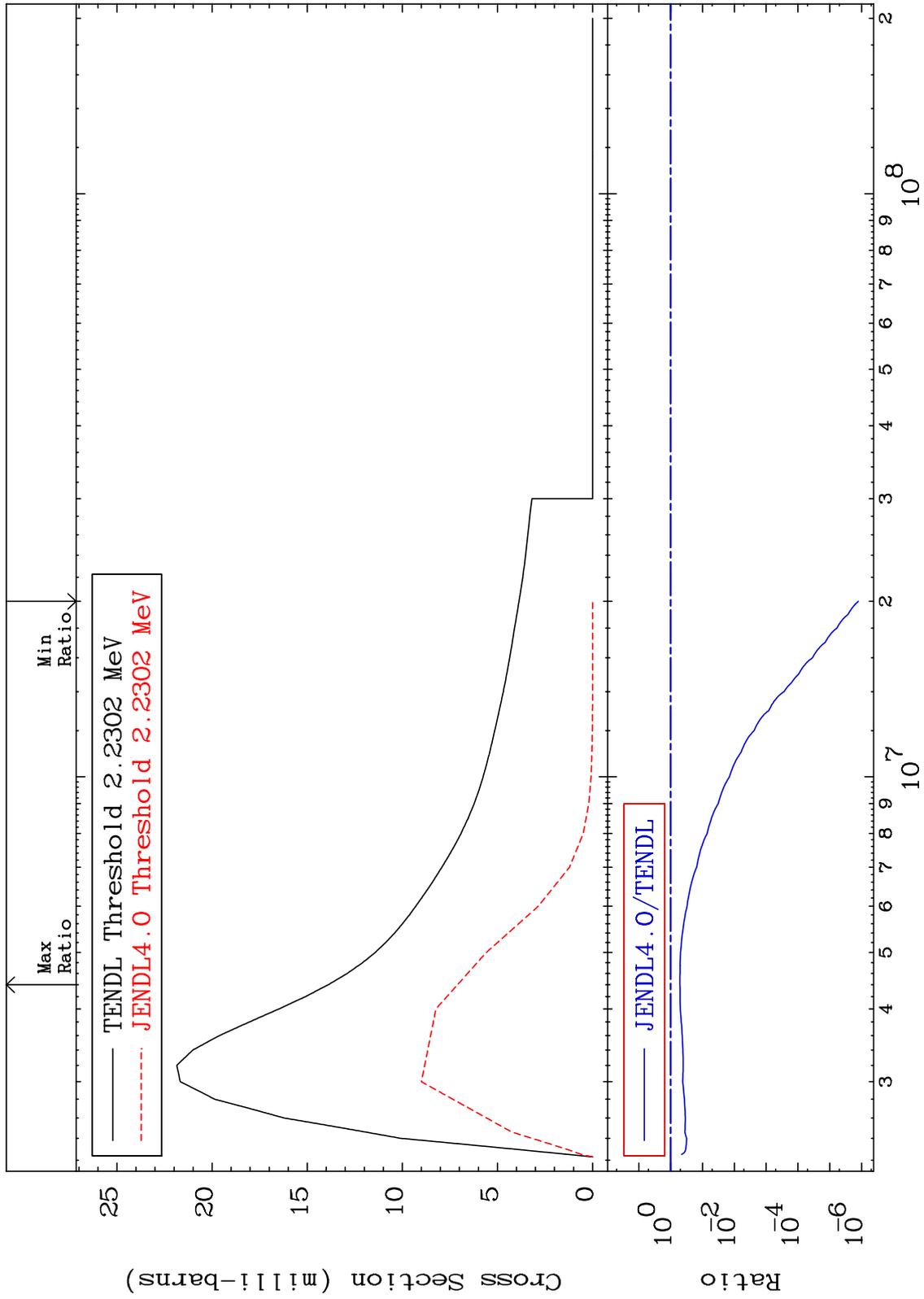
MAT 3125

MT= 68 (n,n') Level  
Cross Section

31-Ga-69  
-95.06 To 69.92 %



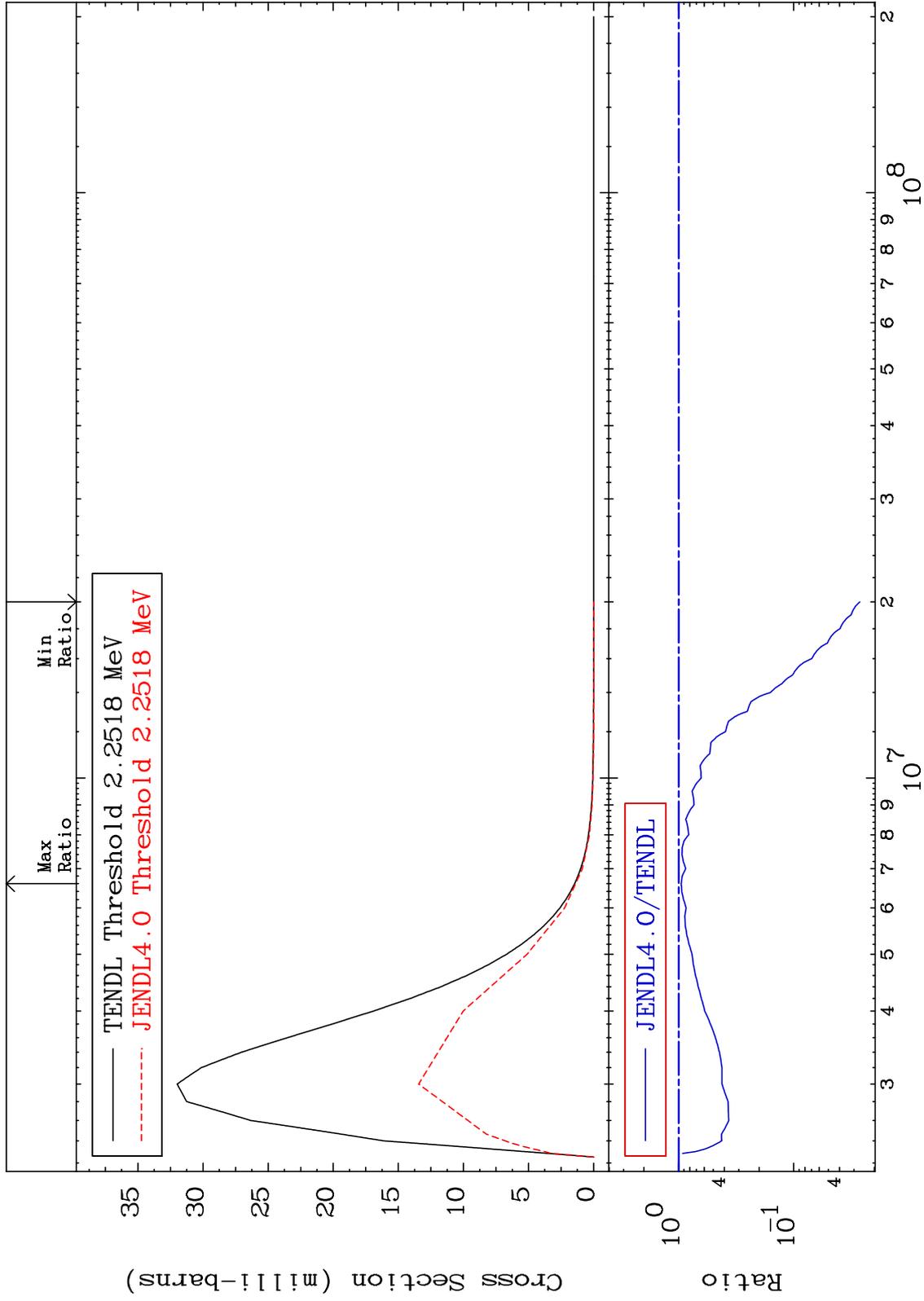
MAT 3125 MT= 69 (n,n') Level Cross Section 31-Ga-69  
 -100.0 To -48.89%



MAT 3125

MT= 70 (n,n') Level  
Cross Section

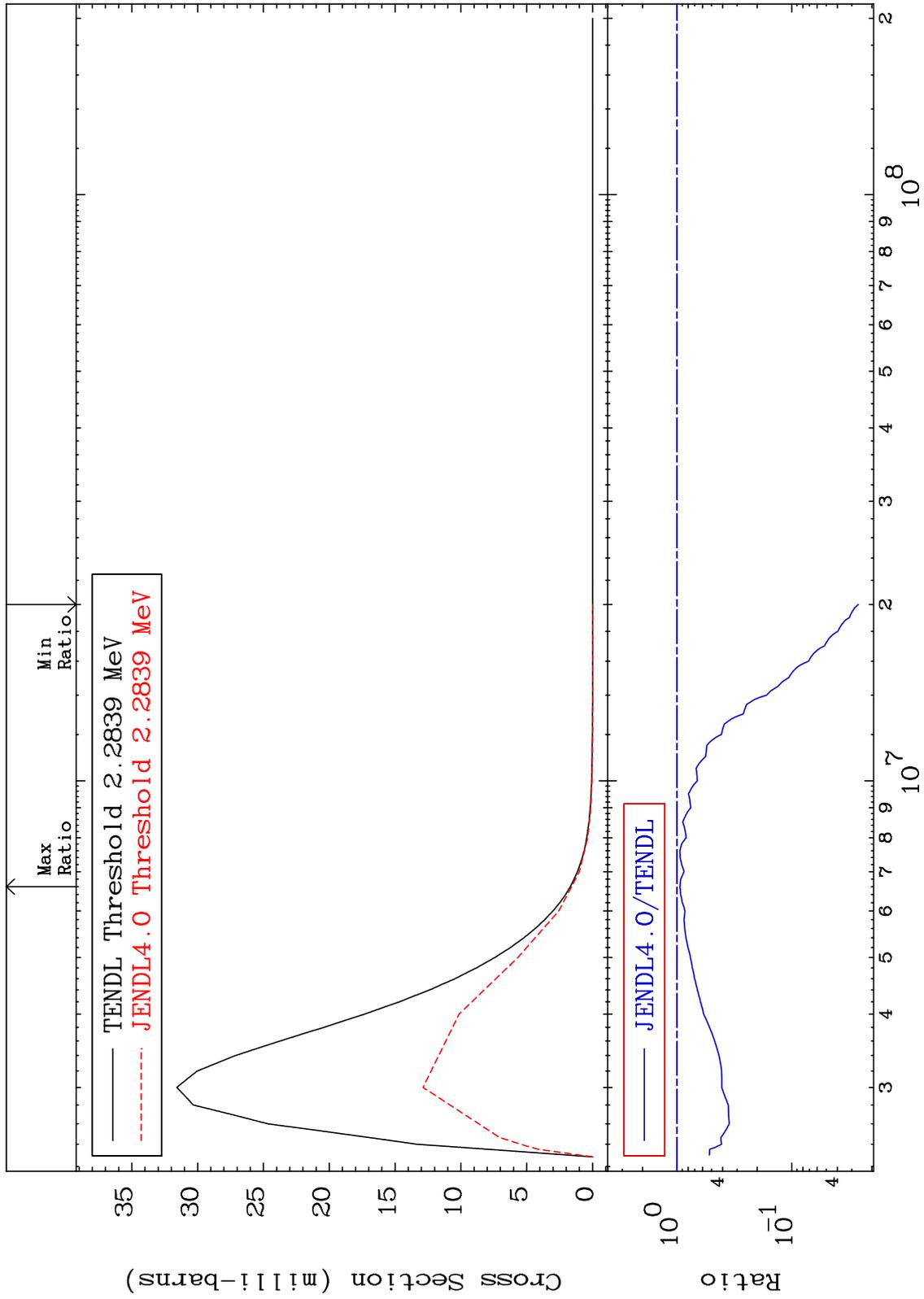
31-Ga-69  
-97.34 To -4.965%



MAT 3125

MT= 71 (n,n') Level  
Cross Section

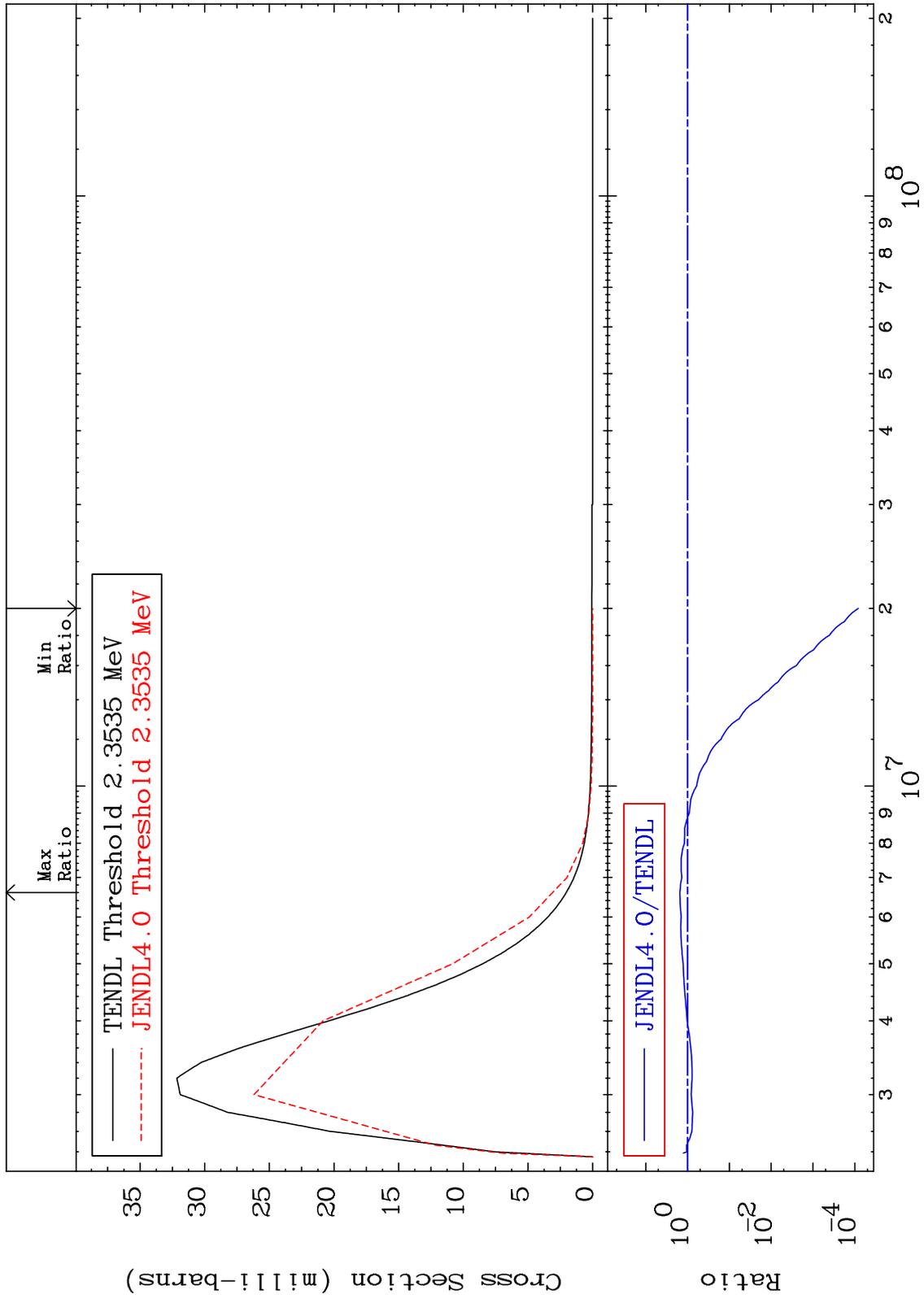
31-Ga-69  
-97.38 To -5.678%



MAT 3125

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

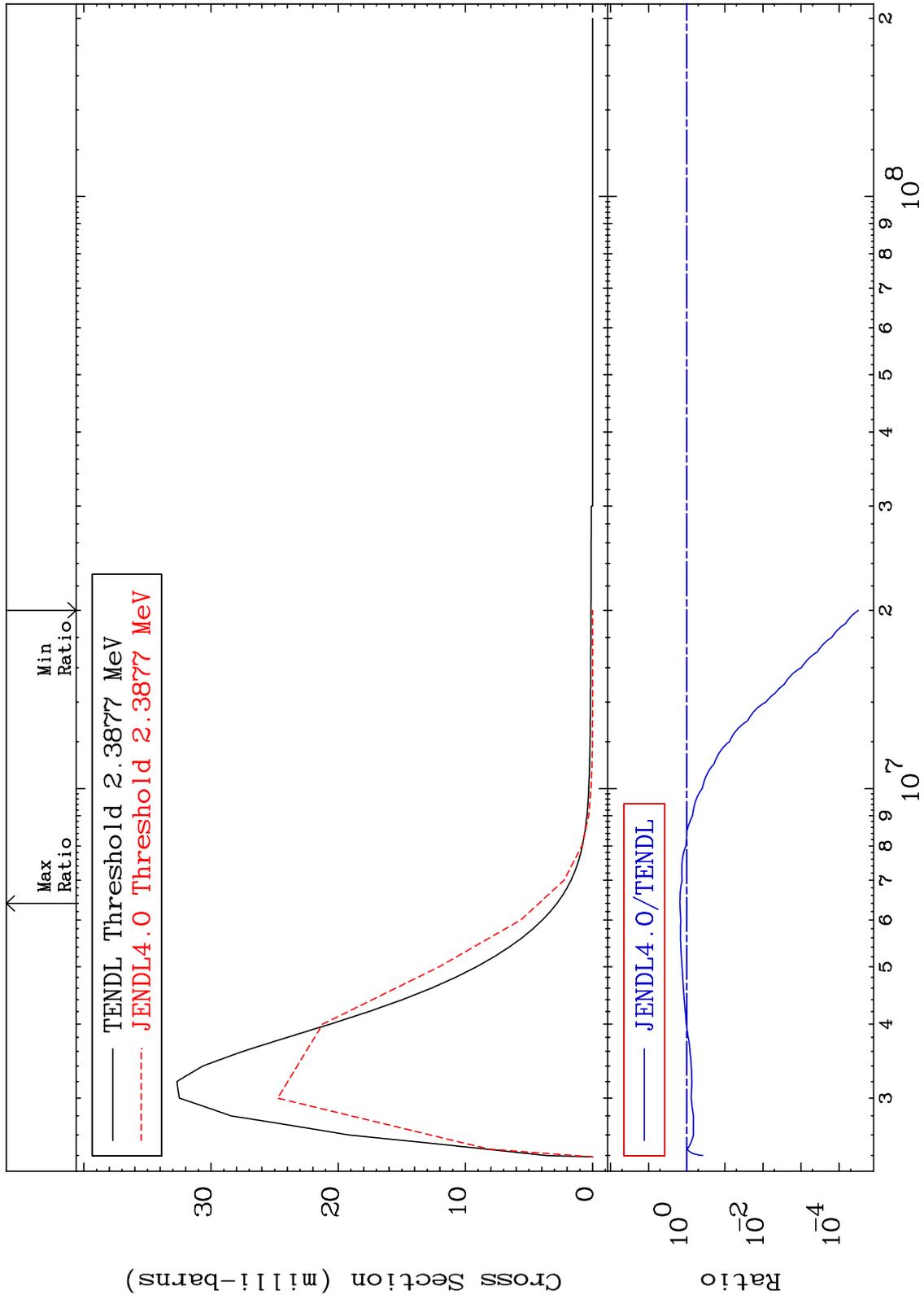
31-Ga-69  
-99.99 To 52.01 %



MAT 3125

MT= 73 (n,n') Level  
Cross Section

31-Ga-69  
-100.0 To 50.65 %



30

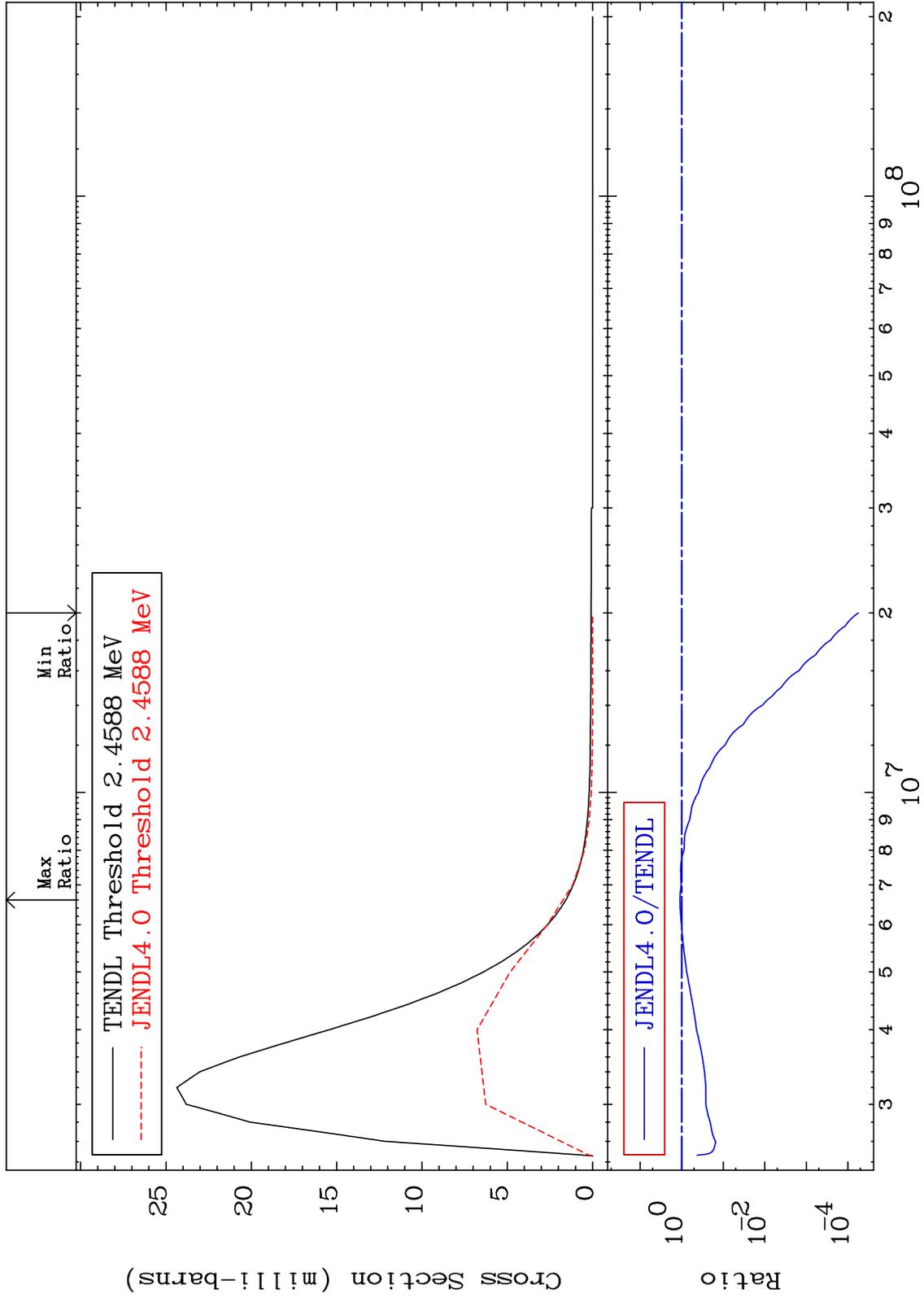
Incident Energy (eV)

31-Ga-69

MAT 3125

MT= 74 (n,n') Level  
Cross Section

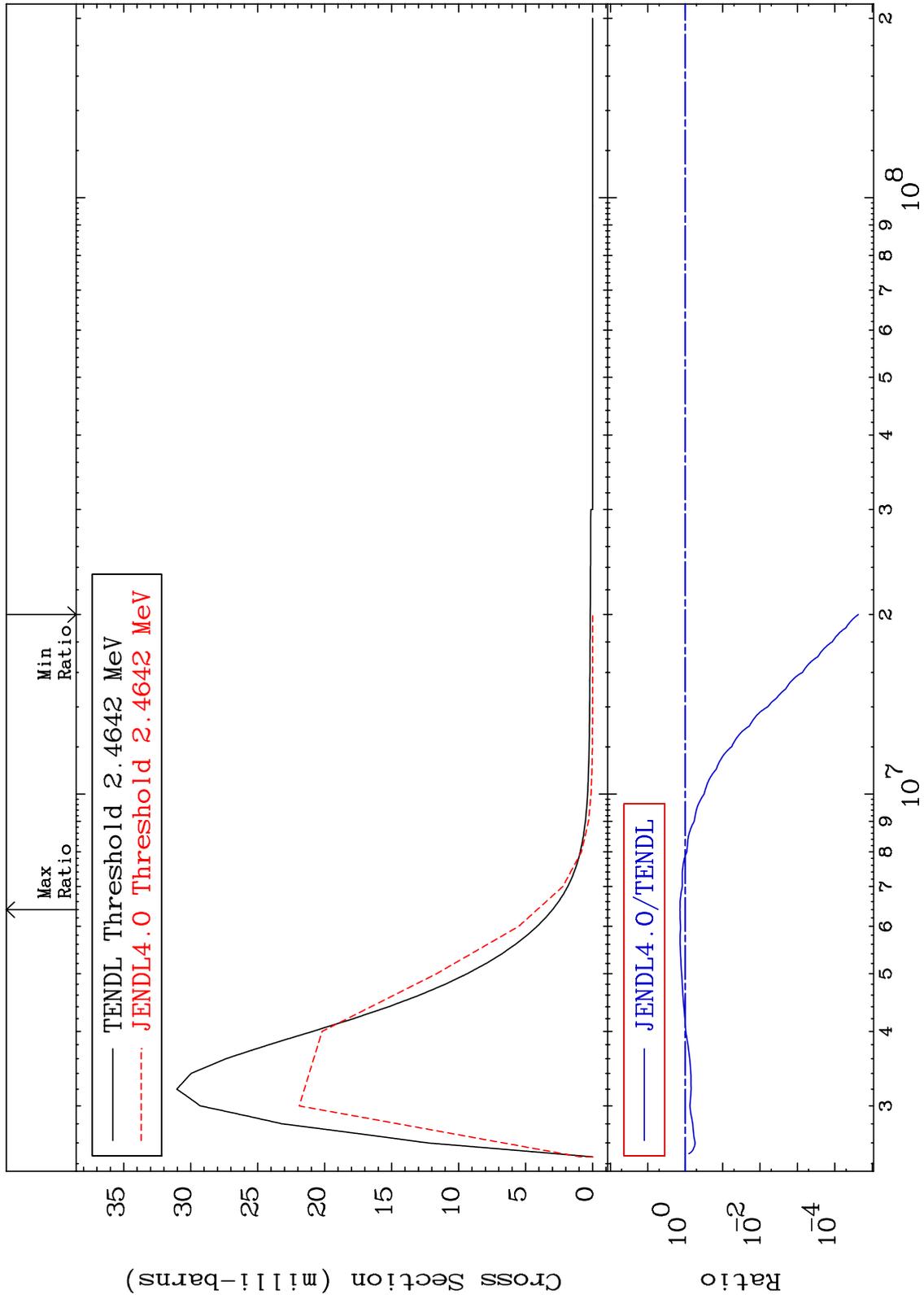
31-Ga-69  
-99.99 To 9.948 %



MAT 3125

MT= 75 (n,n') Level  
Cross Section

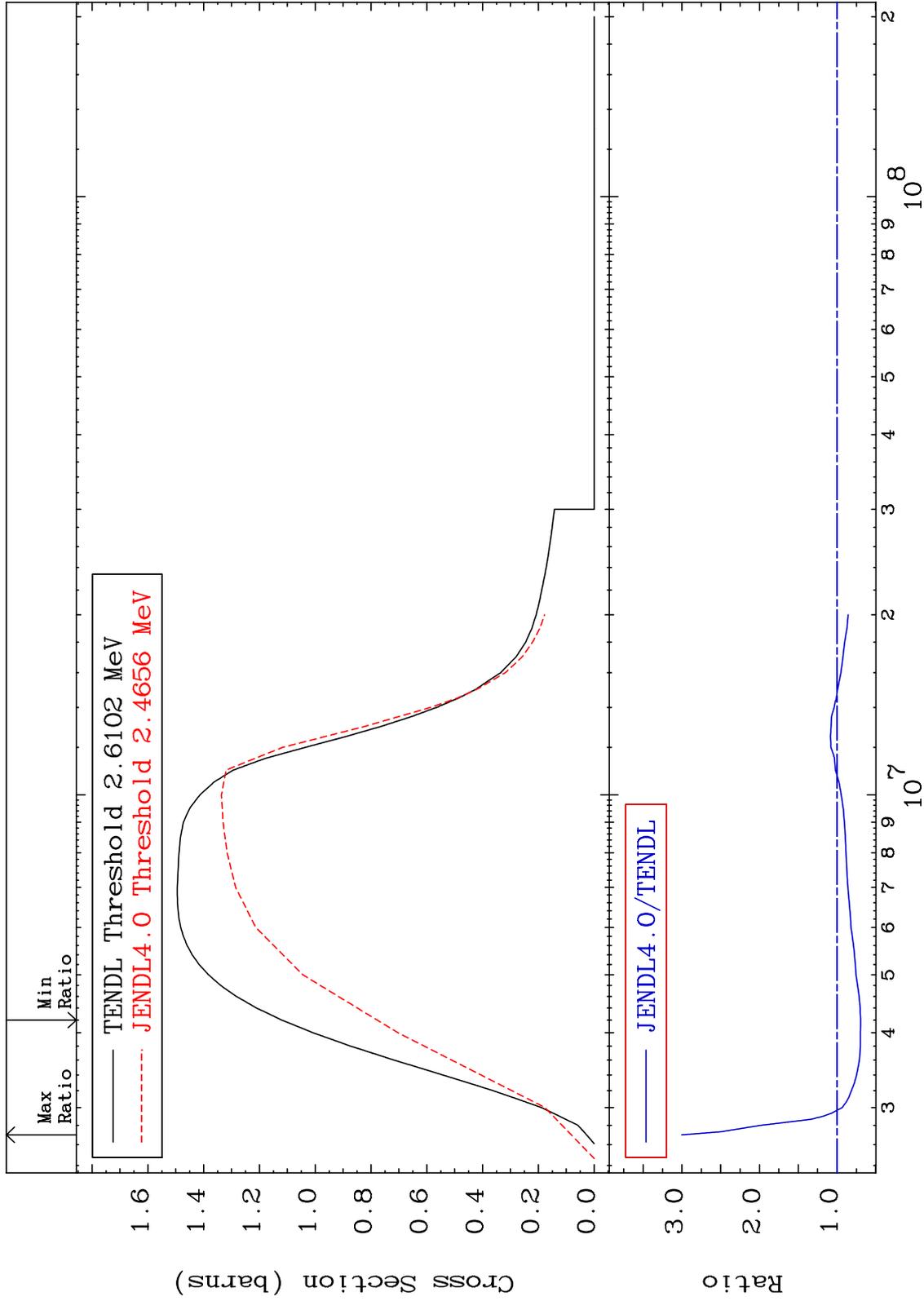
31-Ga-69  
-100.0 To 38.47 %



MAT 3125

(n,n') Continuum  
Cross Section

31-Ga-69  
-30.55 To 200.2 %



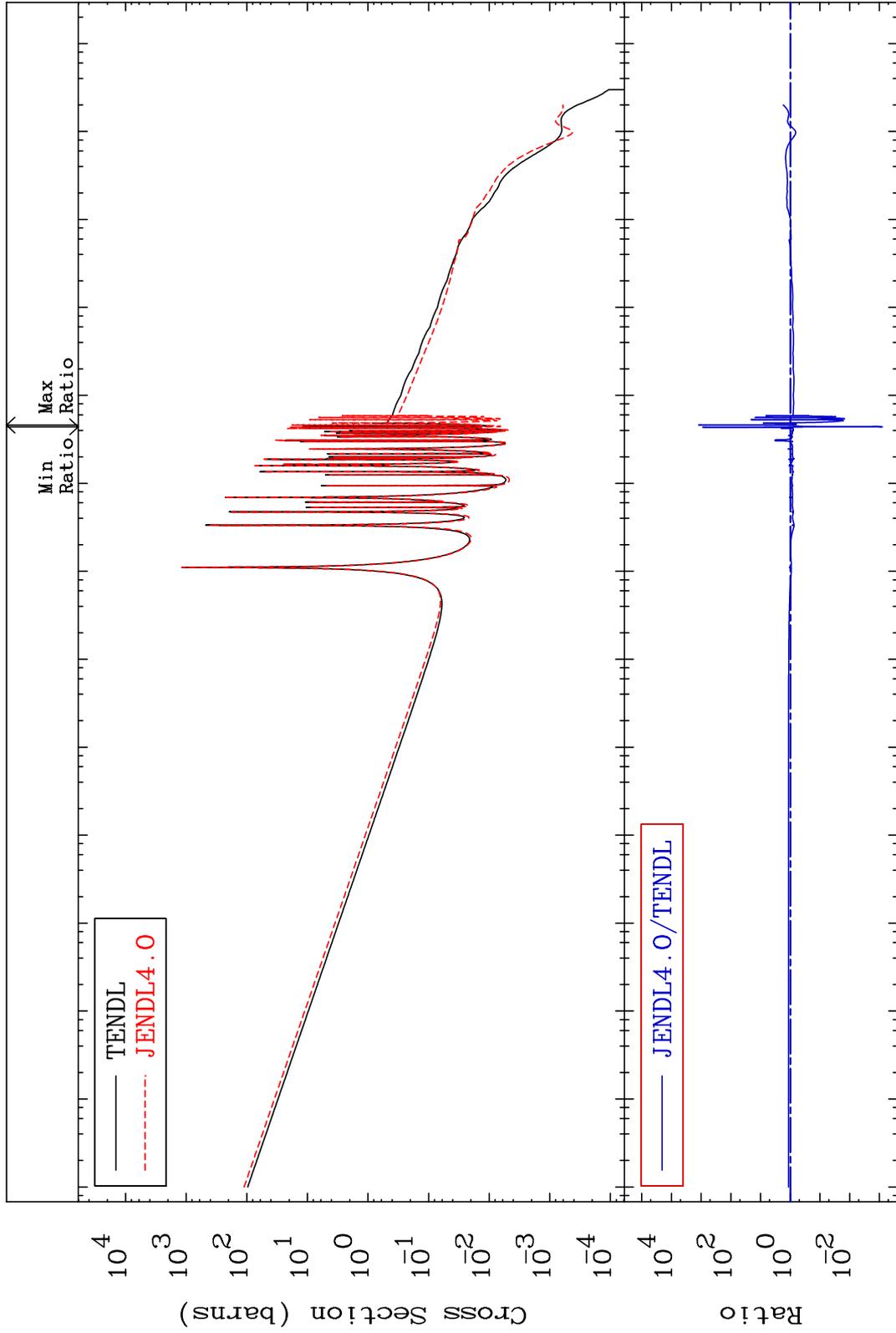
MAT 3125

(n,  $\gamma$ )

31-Ga-69

Cross Section

-99.92 To 9999. %



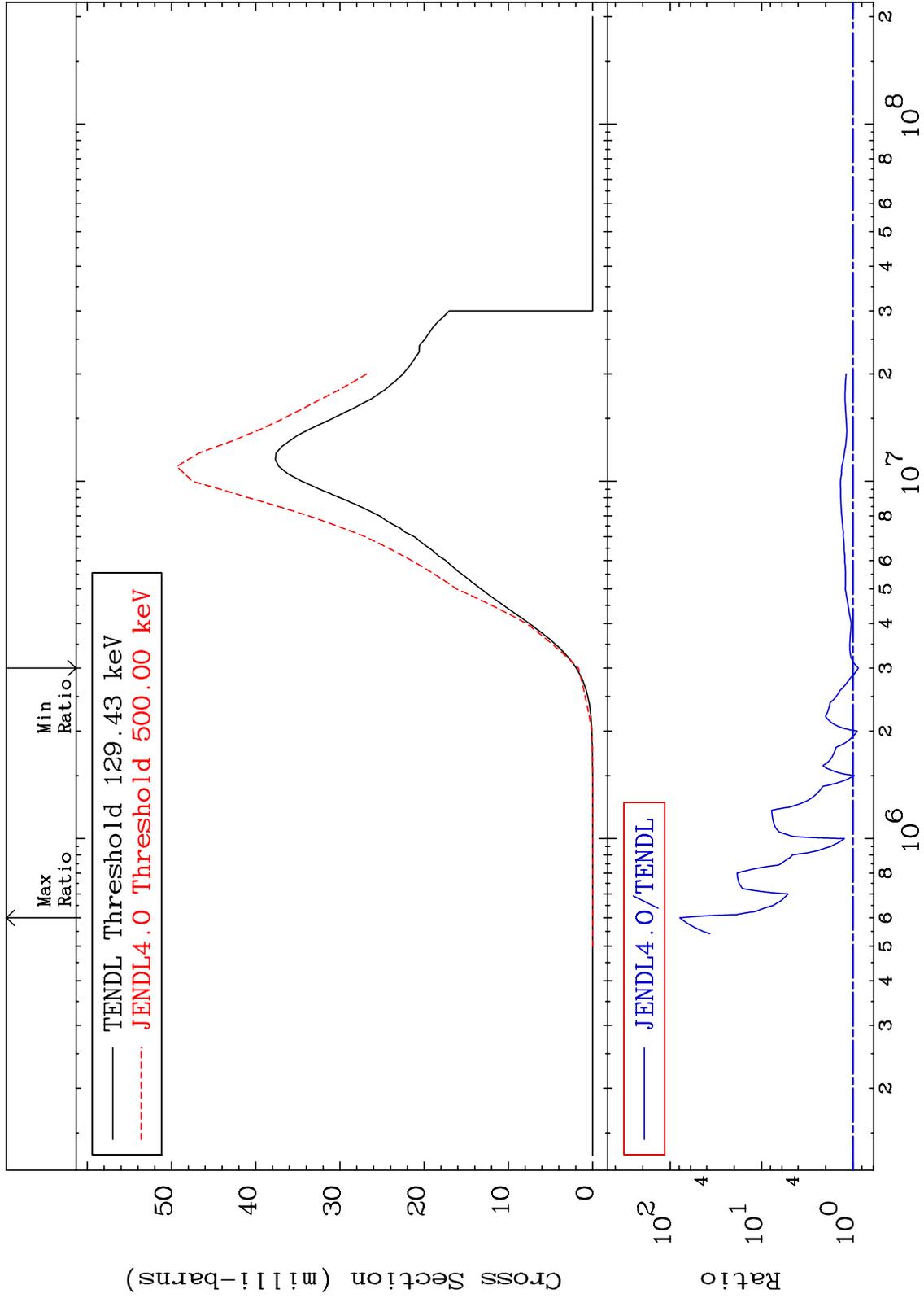
MAT 3125

(n,p)

31-Ga-69

Cross Section

-12.63 To 7743. %

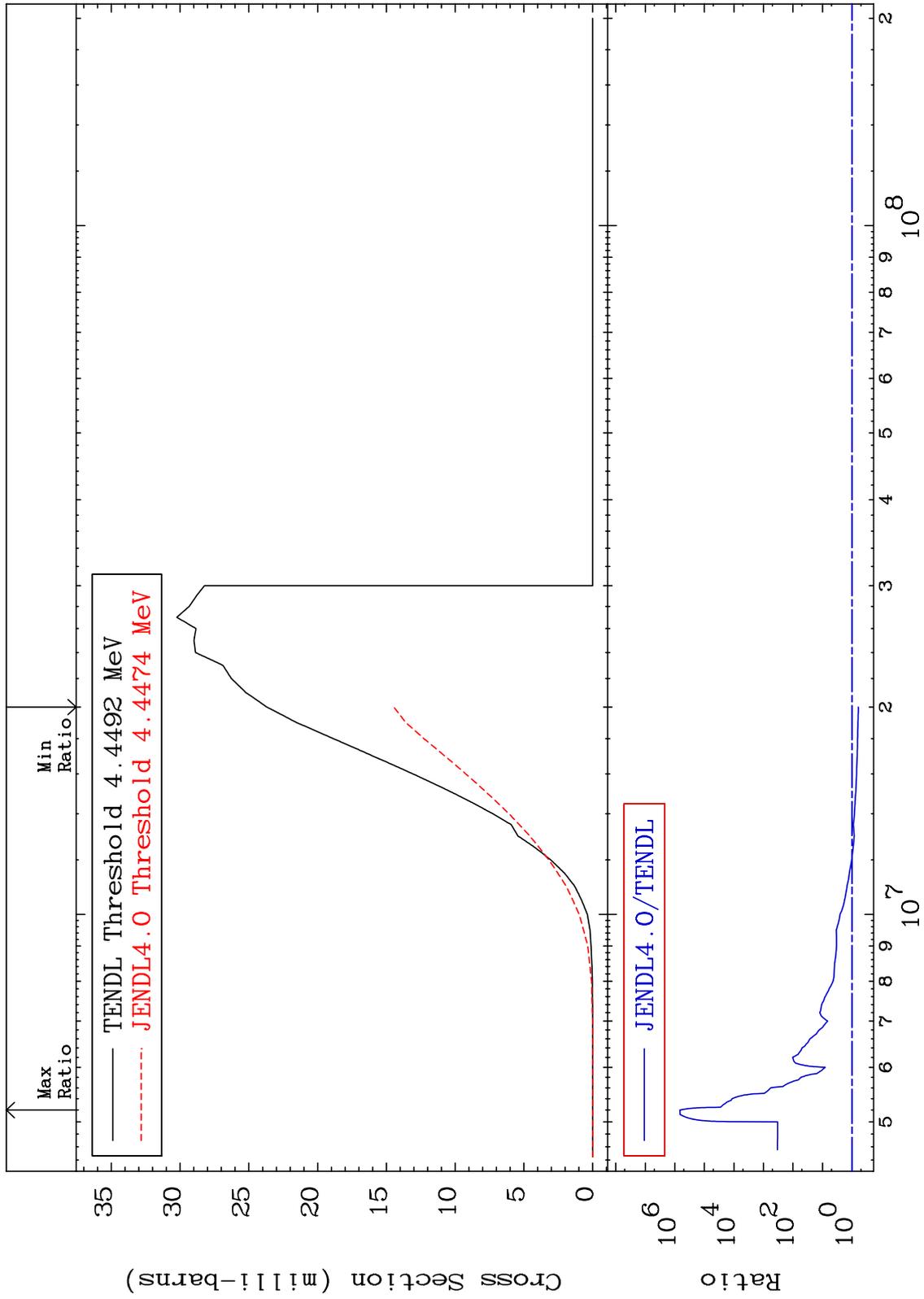


35

31-Ga-69

31-Ga-69

MAT 3125 (n,d) Cross Section 31-Ga-69 -38.98 To 9999. %



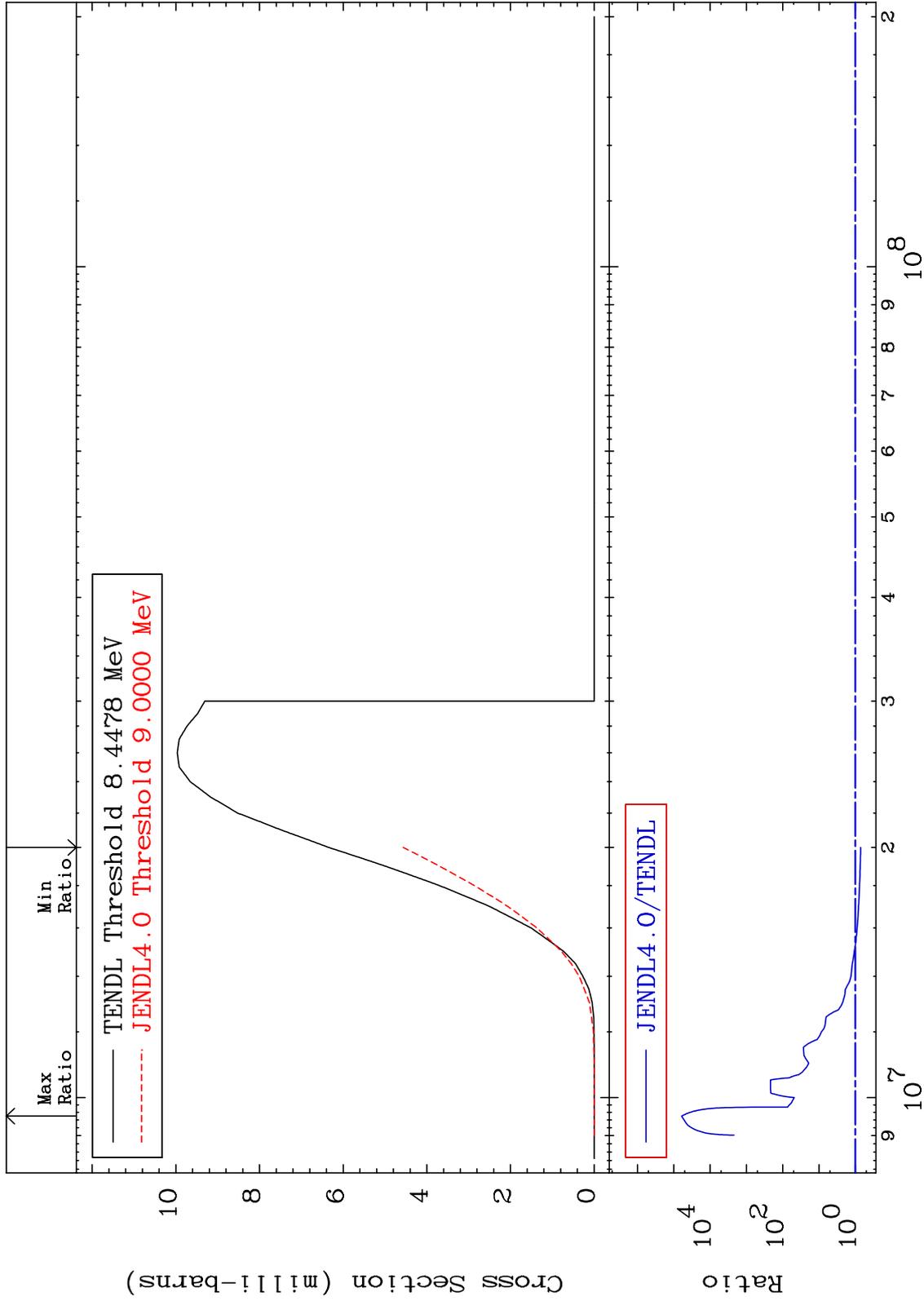
MAT 3125

(n, t)

31-Ga-69

Cross Section

-28.07 To 9999. %



37

Incident Energy (eV)

31-Ga-69

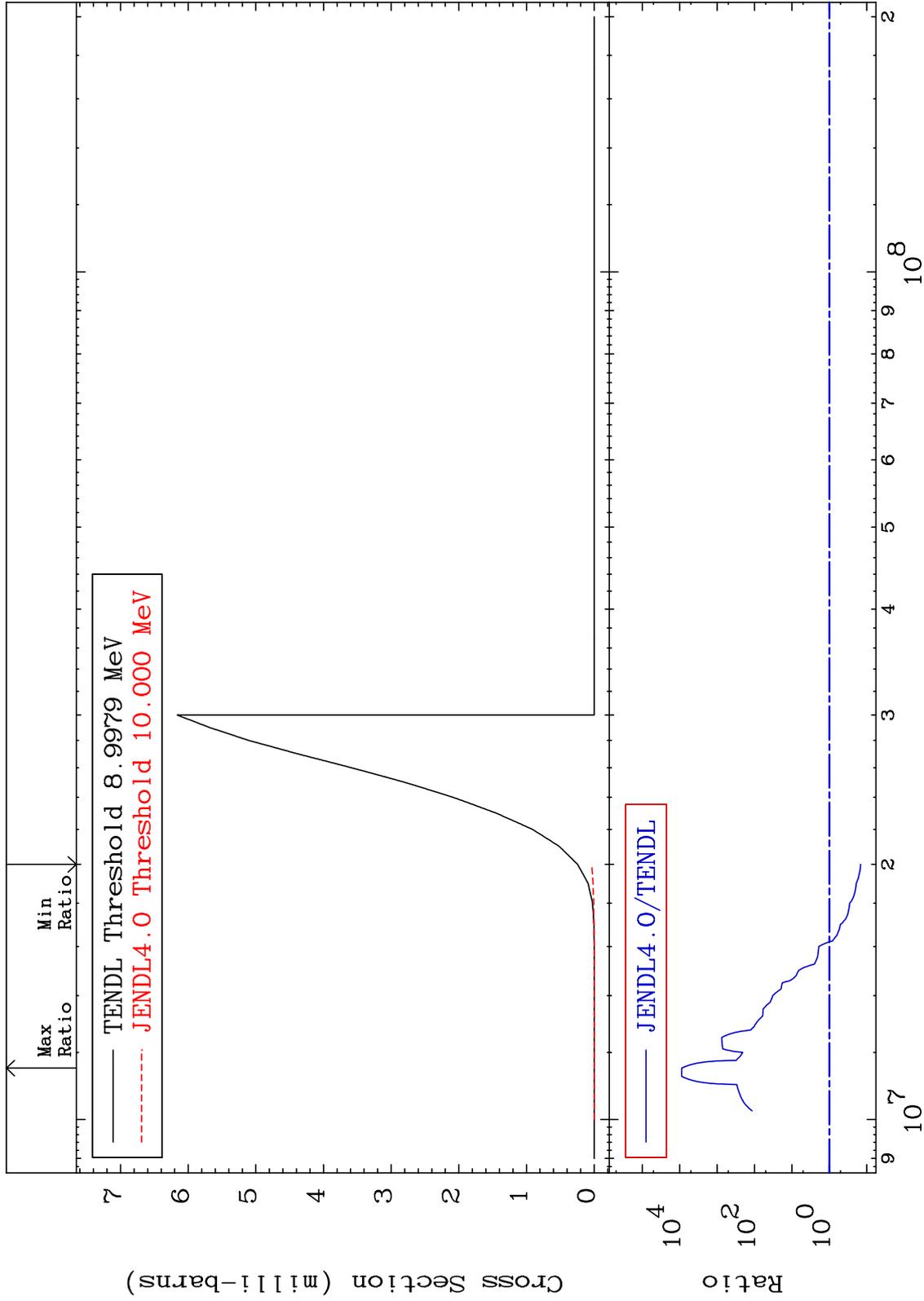
MAT 3125

(n, He-3)

31-Ga-69

Cross Section

-85.55 To 9999. %



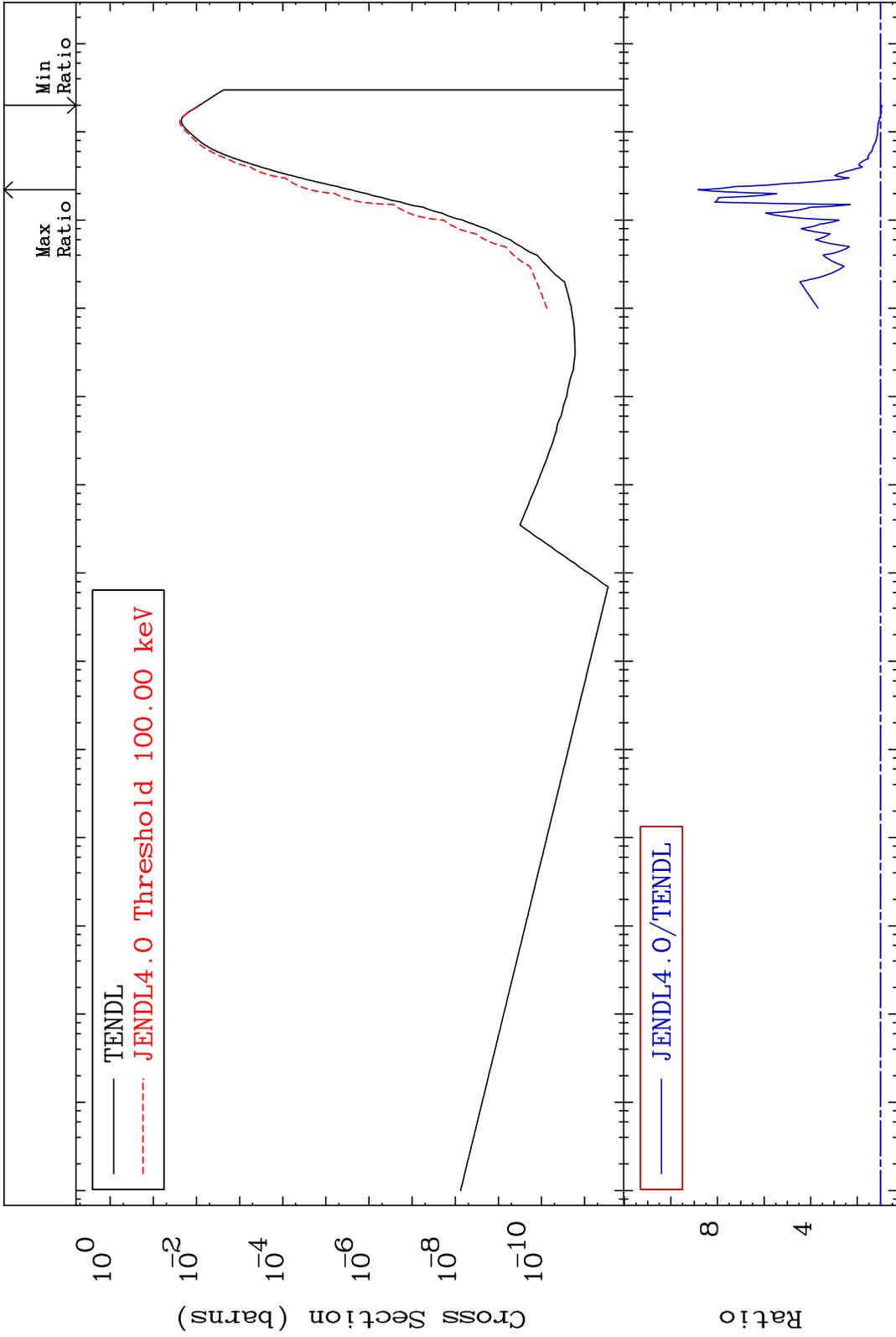
MAT 3125

(n,  $\alpha$ )

31-Ga-69

Cross Section

-6.155 To 783.2 %



Incident Energy (eV)

39

31-Ga-69

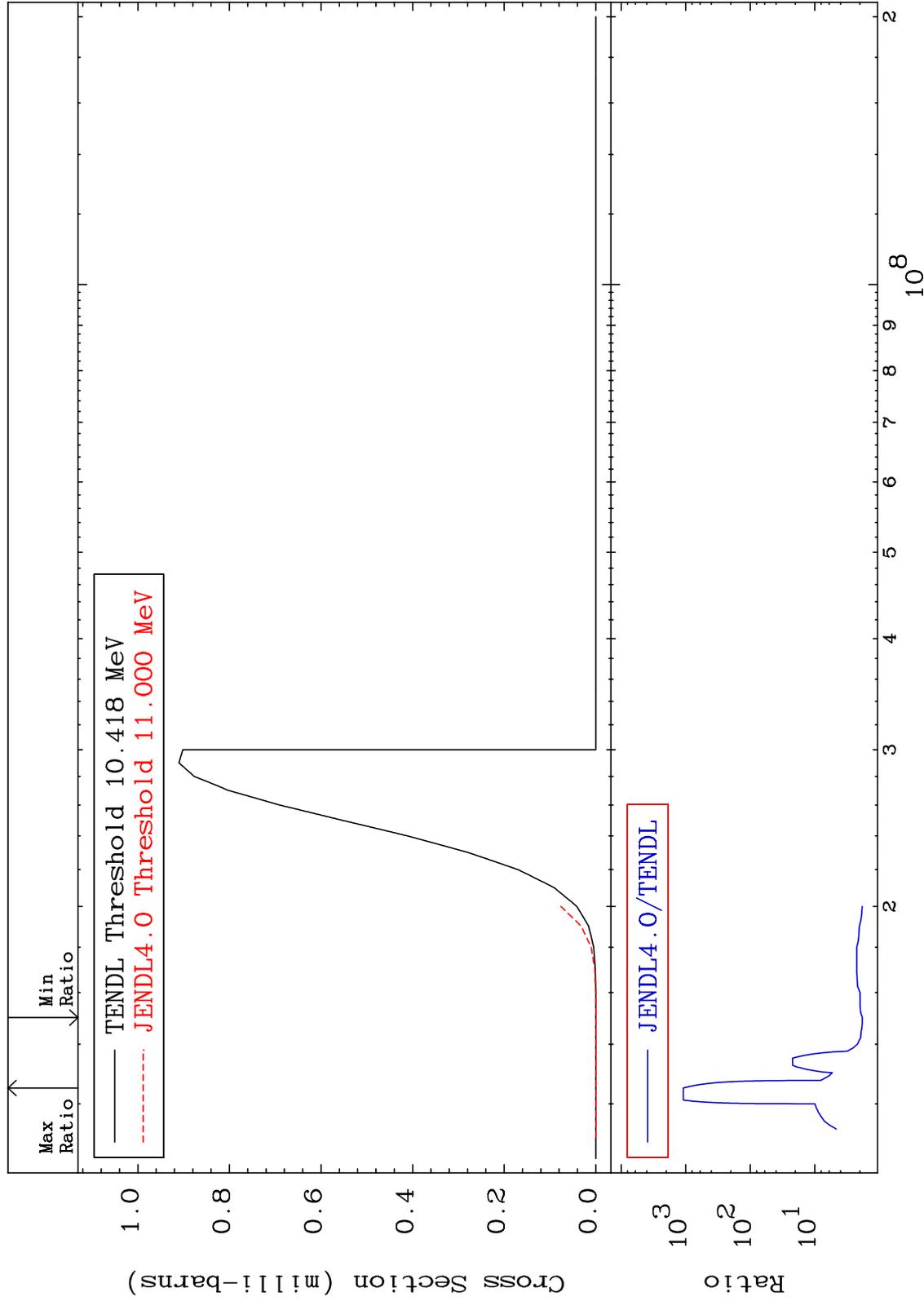
MAT 3125

(n,2p)

31-Ga-69

Cross Section

83.93 To 9999. %



40

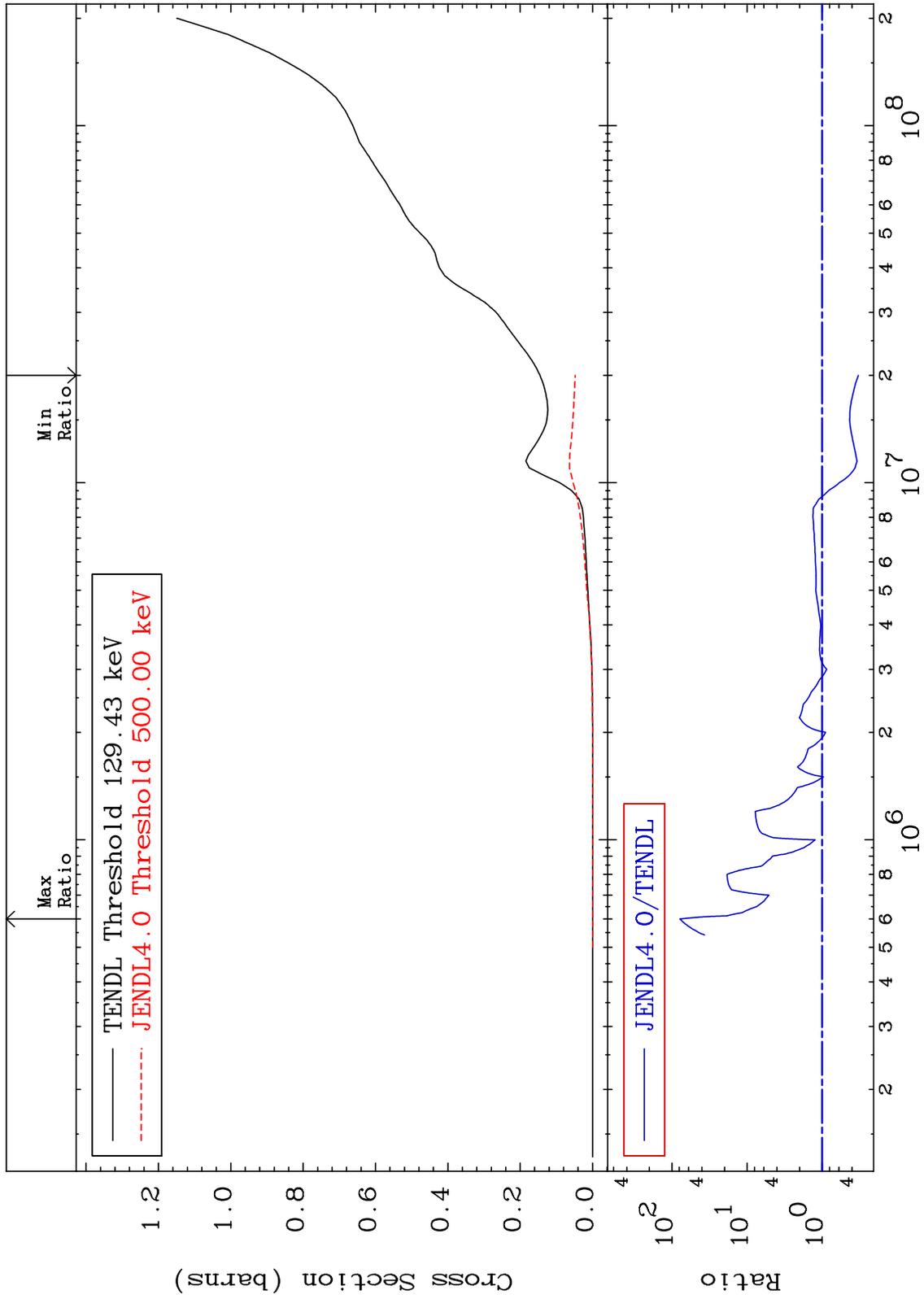
Incident Energy (eV)

31-Ga-69

MAT 3125

Hydrogen Production  
Cross Section

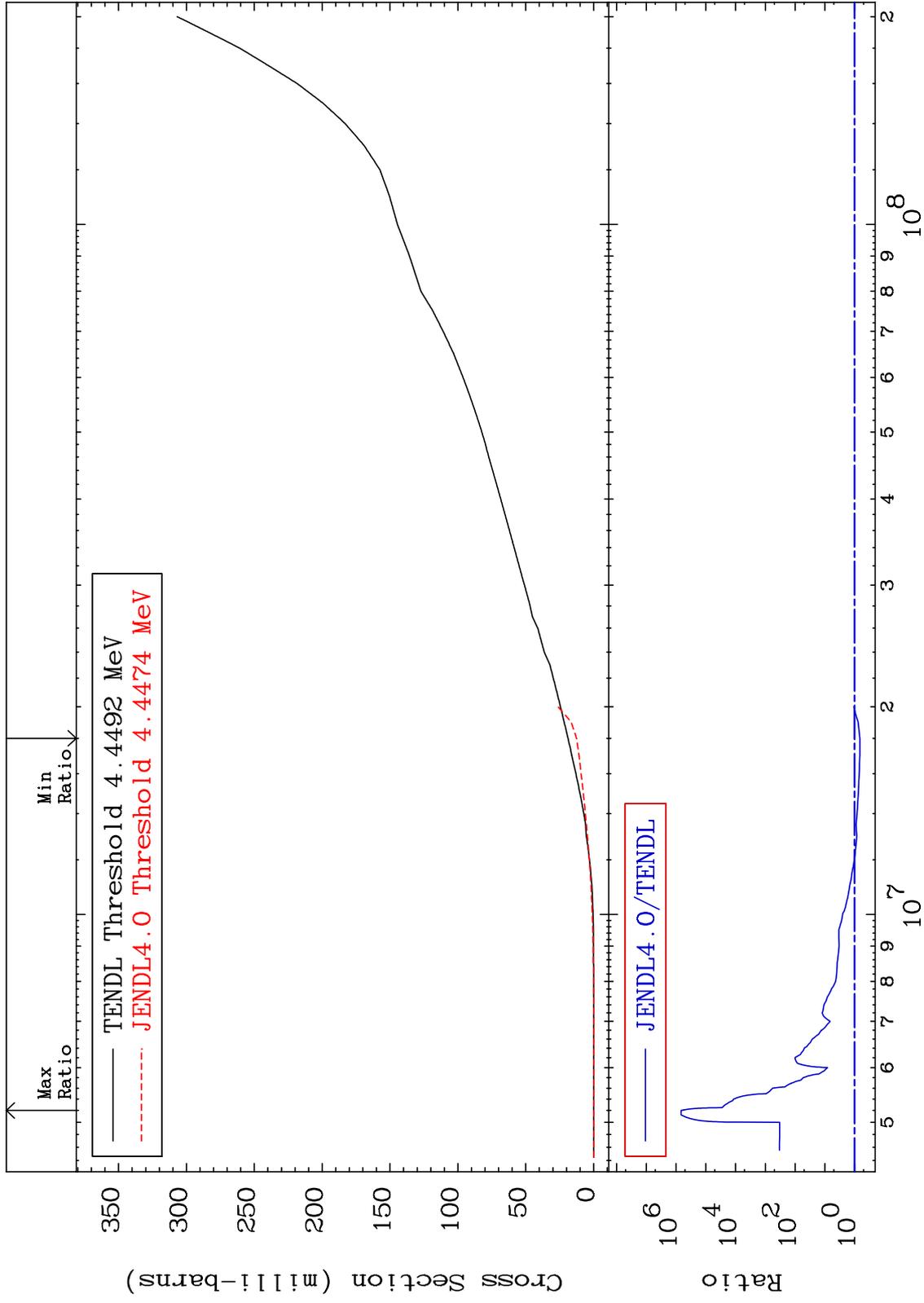
31-Ga-69  
-67.03 To 7743. %



MAT 3125

Deuterium Production  
Cross Section

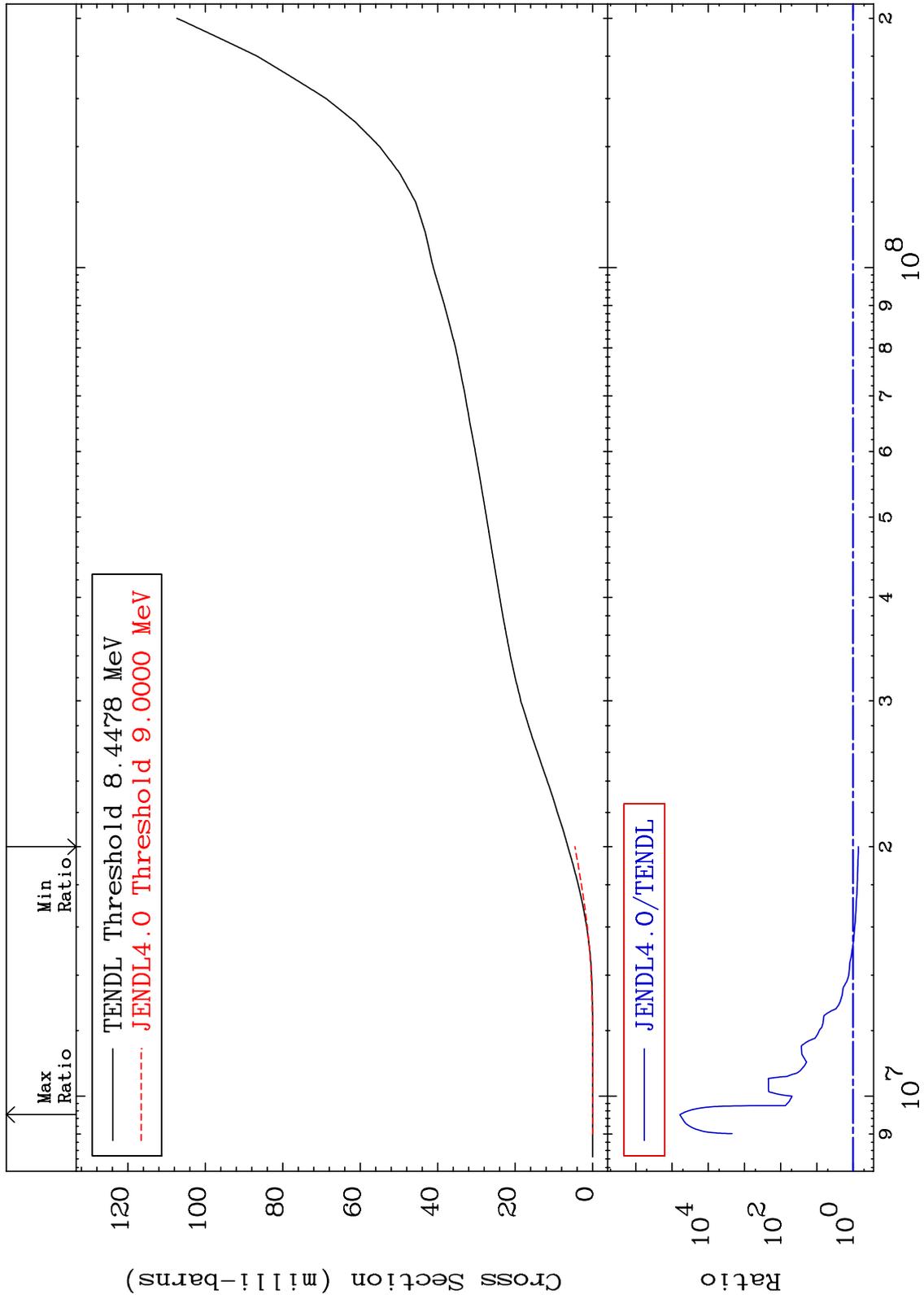
31-Ga-69  
-33.25 To 9999. %



MAT 3125

Tritium Production  
Cross Section

31-Ga-69  
-28.44 To 9999. %



43

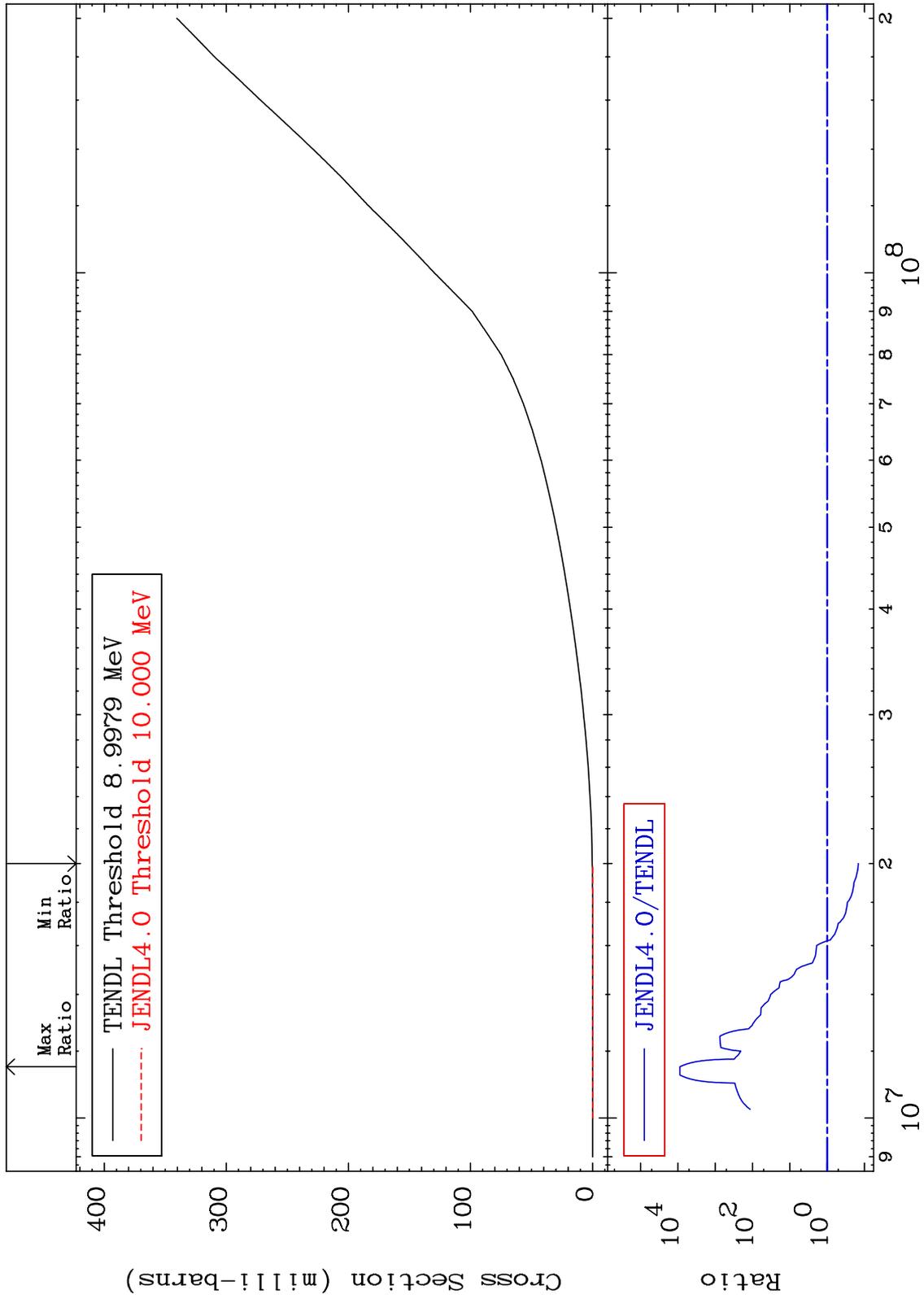
Incident Energy (eV)

31-Ga-69

MAT 3125

He-3 Production  
Cross Section

31-Ga-69  
-85.55 To 9999. %



44

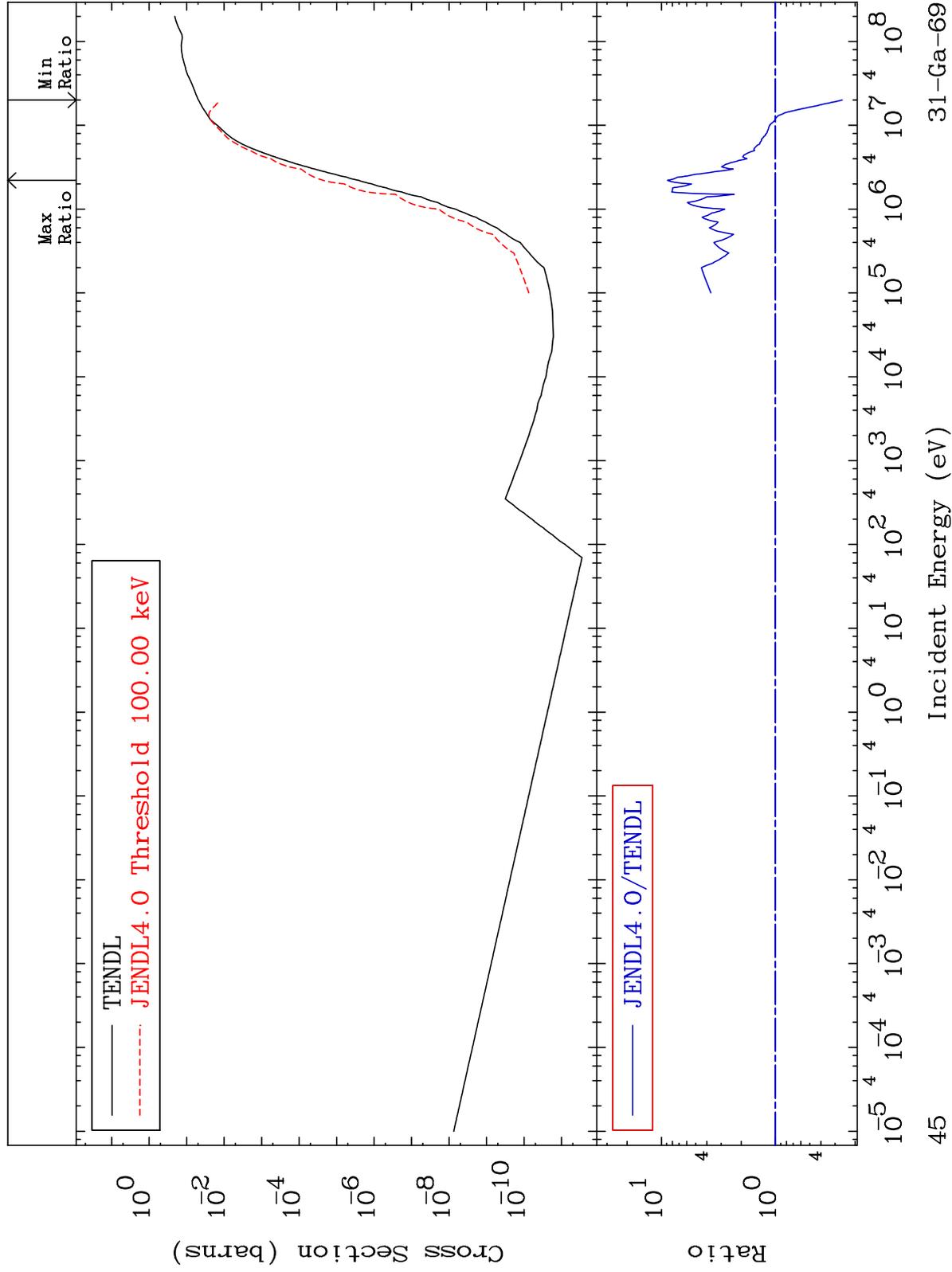
Incident Energy (eV)

31-Ga-69

MAT 3125

He-4 Production  
Cross Section

31-Ga-69  
-74.08 To 783.2 %



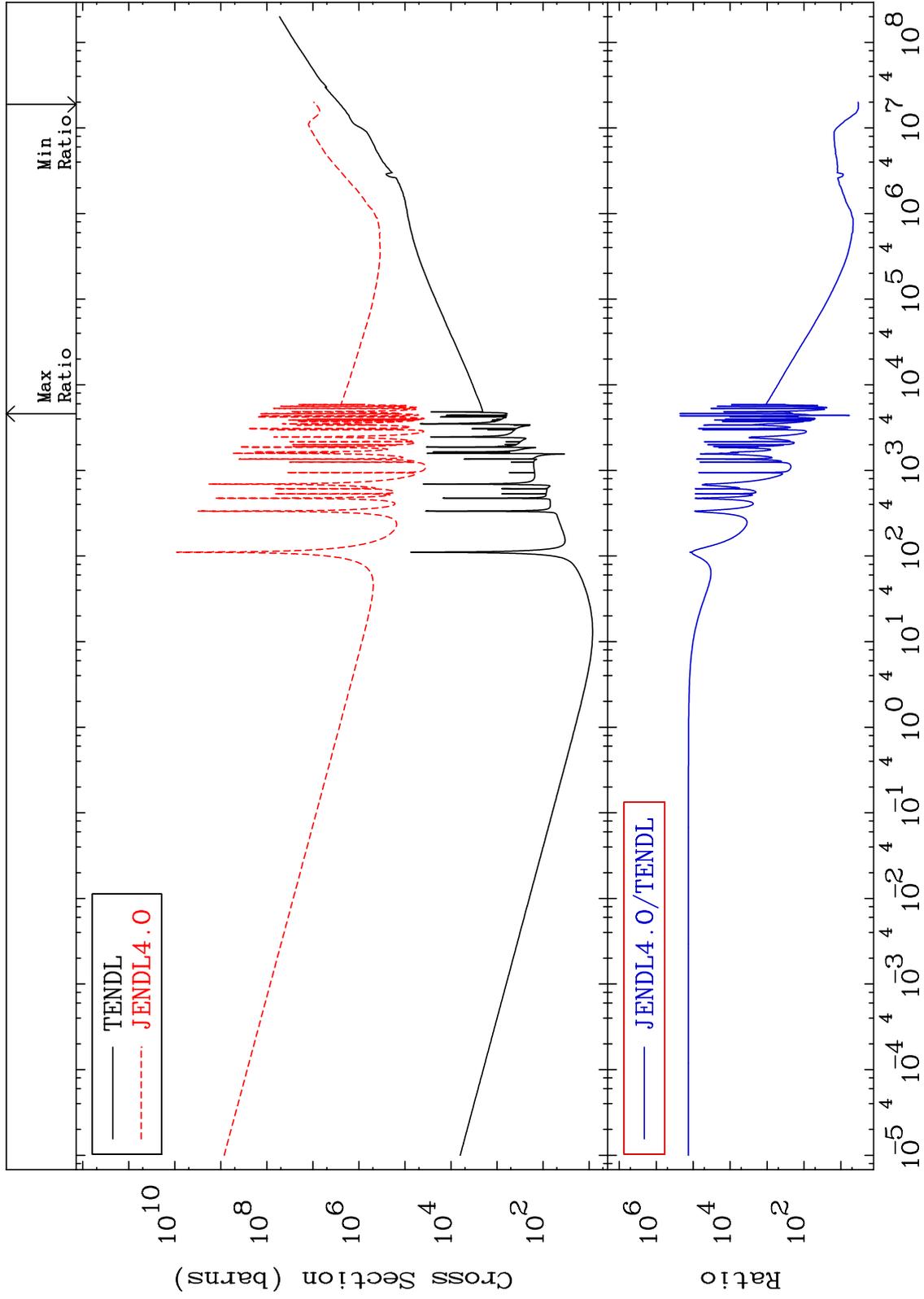
45

31-Ga-69

MAT 3125

Kerma total (eV-barns)  
Cross Section

31-Ga-69  
237.3 To 9999. %



46

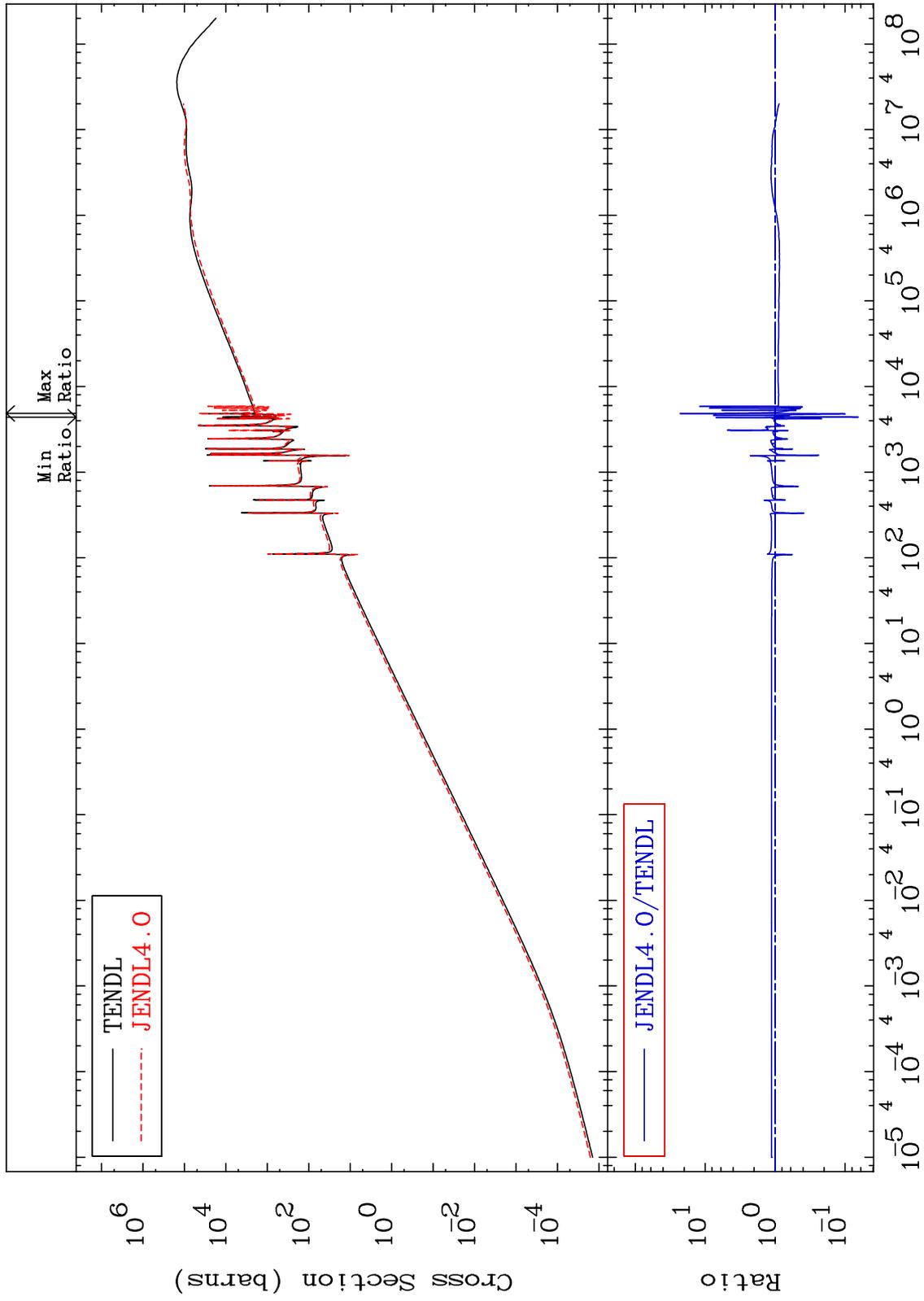
Incident Energy (eV)

31-Ga-69

MAT 3125

Kerma elastic  
Cross Section

31-Ga-69  
-93.54 To 2203. %



47

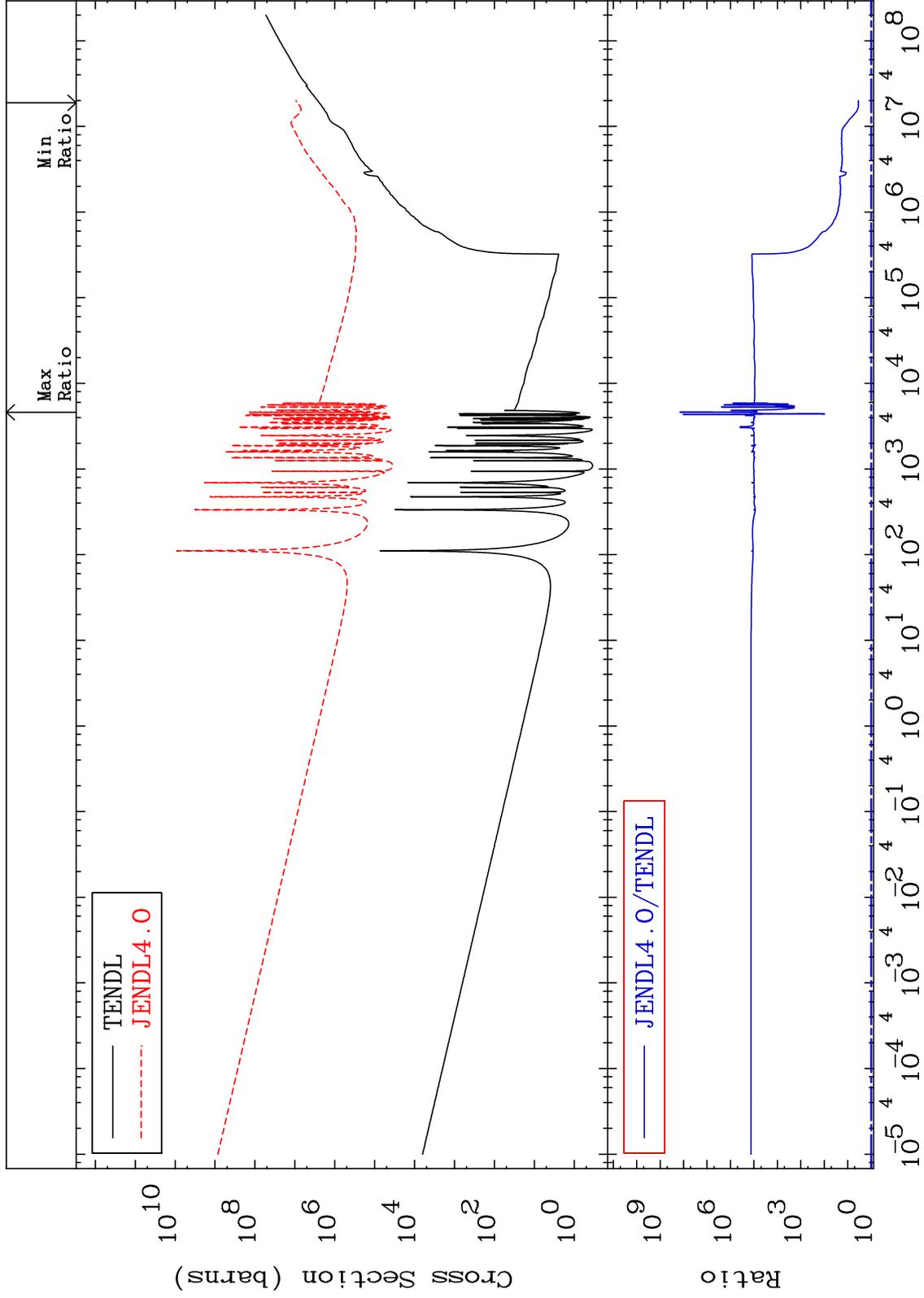
Incident Energy (eV)

31-Ga-69

MAT 3125

Kerma non-elastic (all but mt2)  
Cross Section

31-Ga-69  
248.9 To 9999. %



48

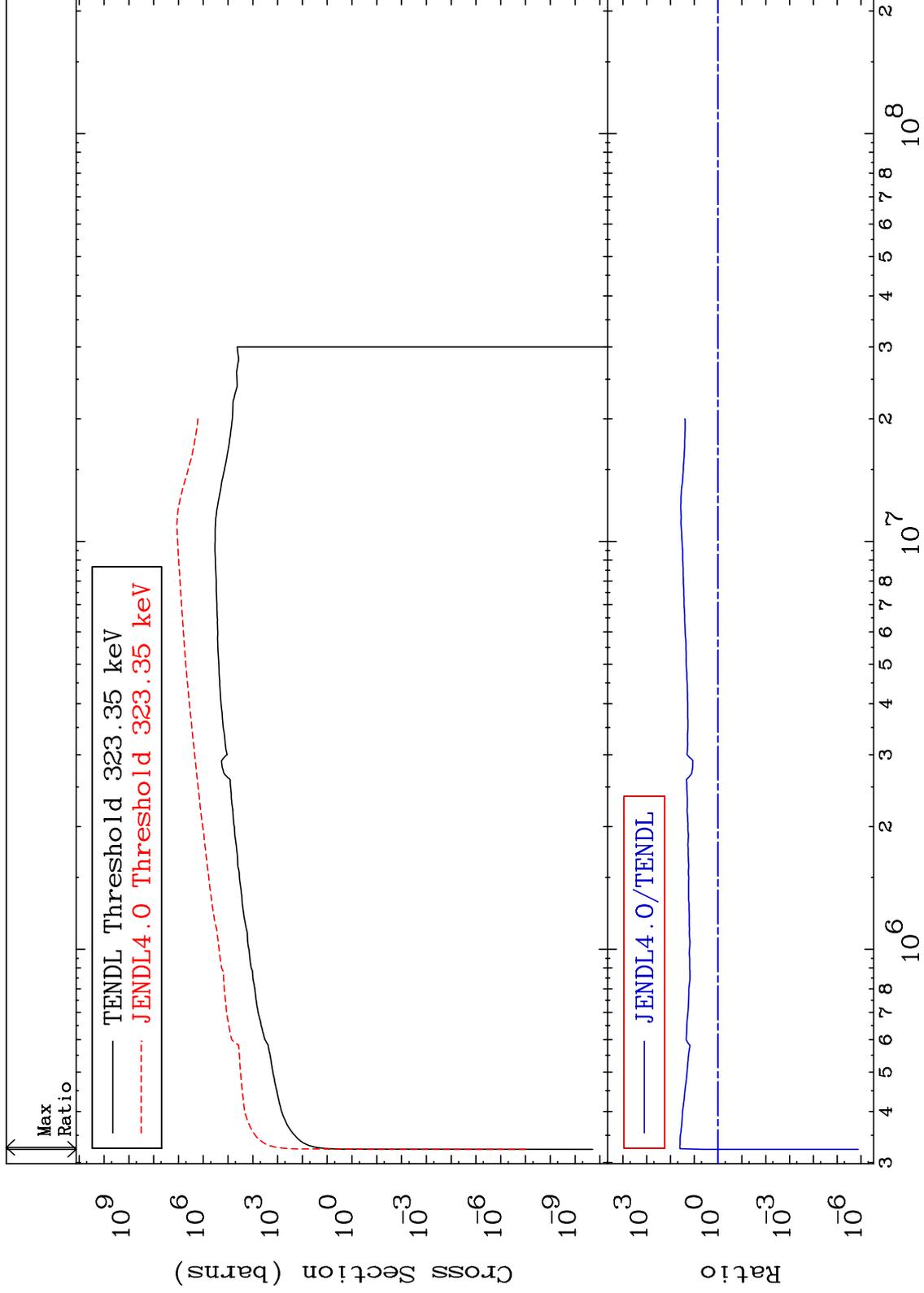
Incident Energy (eV)

31-Ga-69

MAT 3125

Kerma inelastic (mt51-91)  
Cross Section

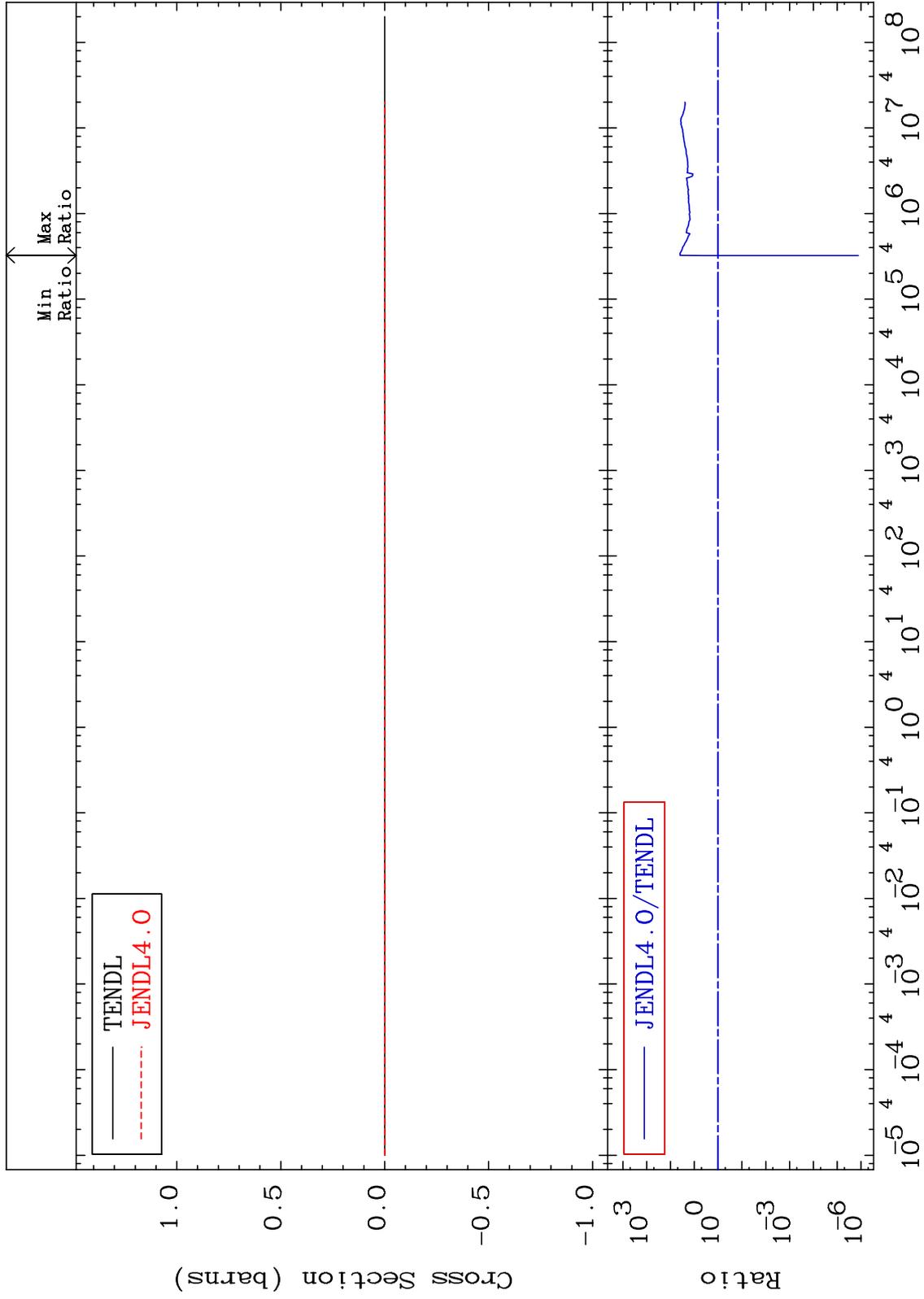
31-Ga-69  
-100.0 To 3910. %



MAT 3125

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

31-Ga-69  
-100.0 To 3910. %



50

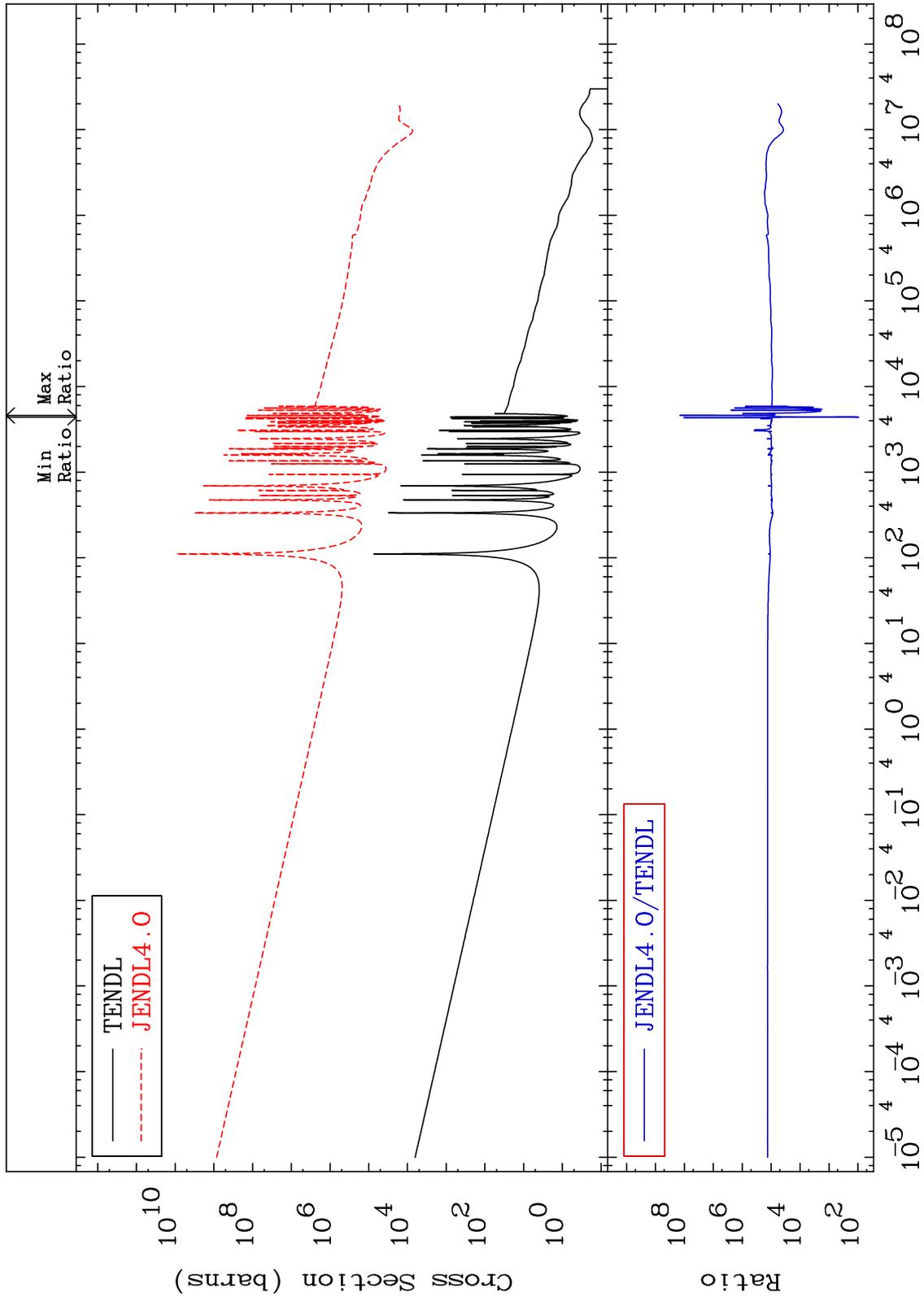
Incident Energy (eV)

31-Ga-69

MAT 3125

Kerma capture (mt102)  
Cross Section

31-Ga-69  
9529. To 9999. %



51

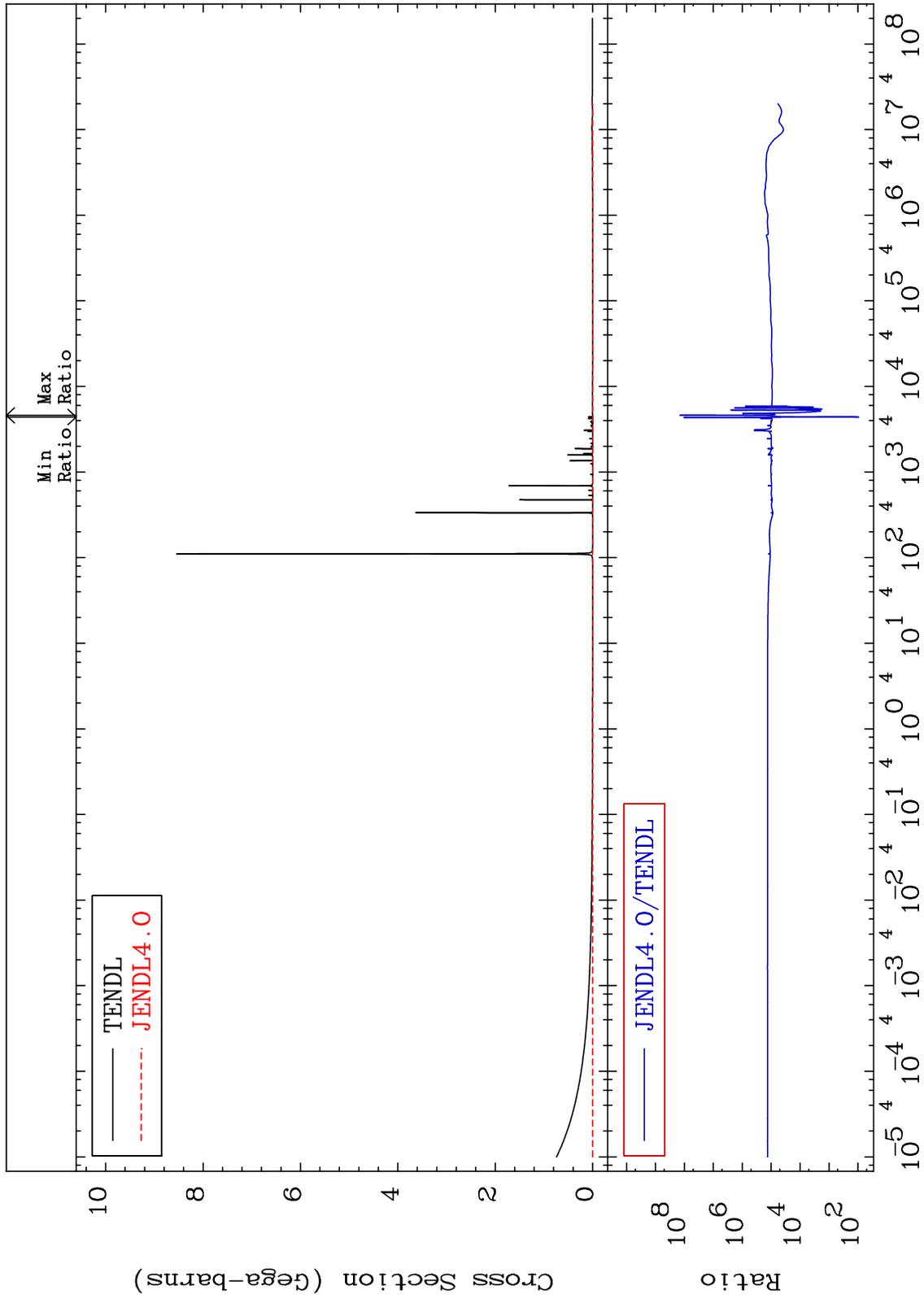
Incident Energy (eV)

31-Ga-69

MAT 3125

Total photon (eV-barns)  
Cross Section

31-Ga-69  
9529. To 9999. %



52

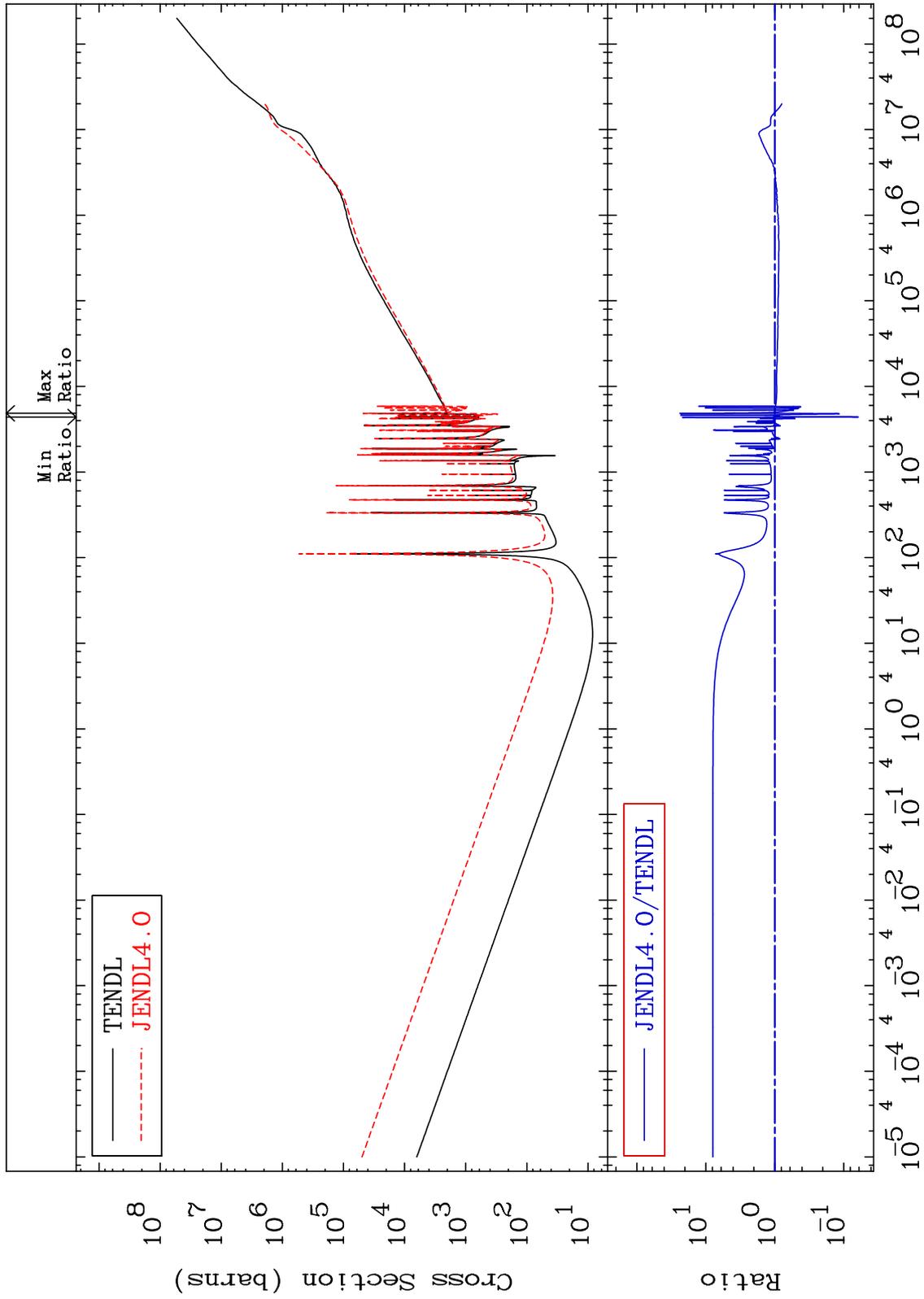
Incident Energy (eV)

31-Ga-69

MAT 3125

Total kinematic kerma (high limit)  
Cross Section

31-Ga-69  
-93.89 To 2267. %



53

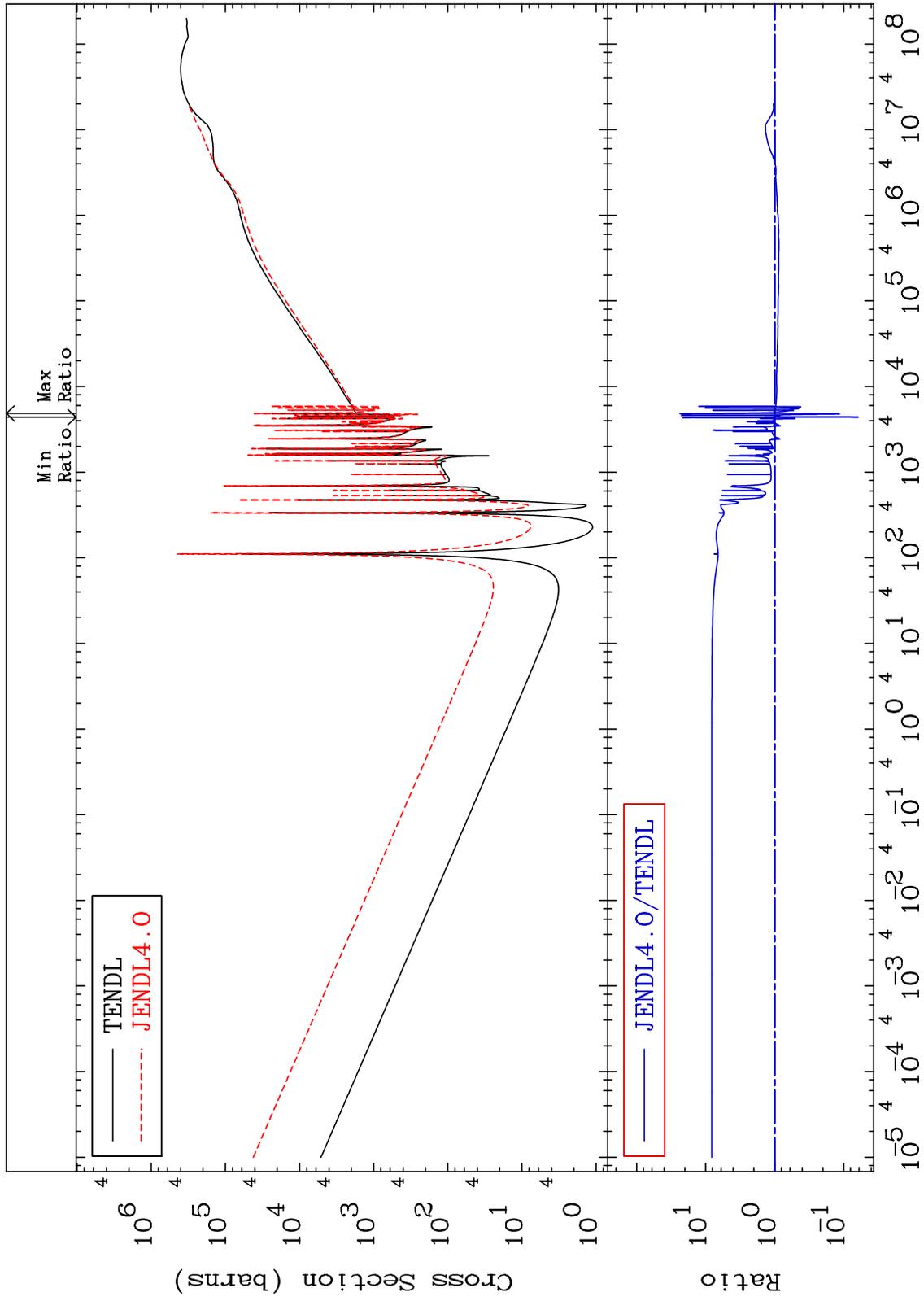
Incident Energy (eV)

31-Ga-69

MAT 3125

Dpa total (eV-barns)  
Cross Section

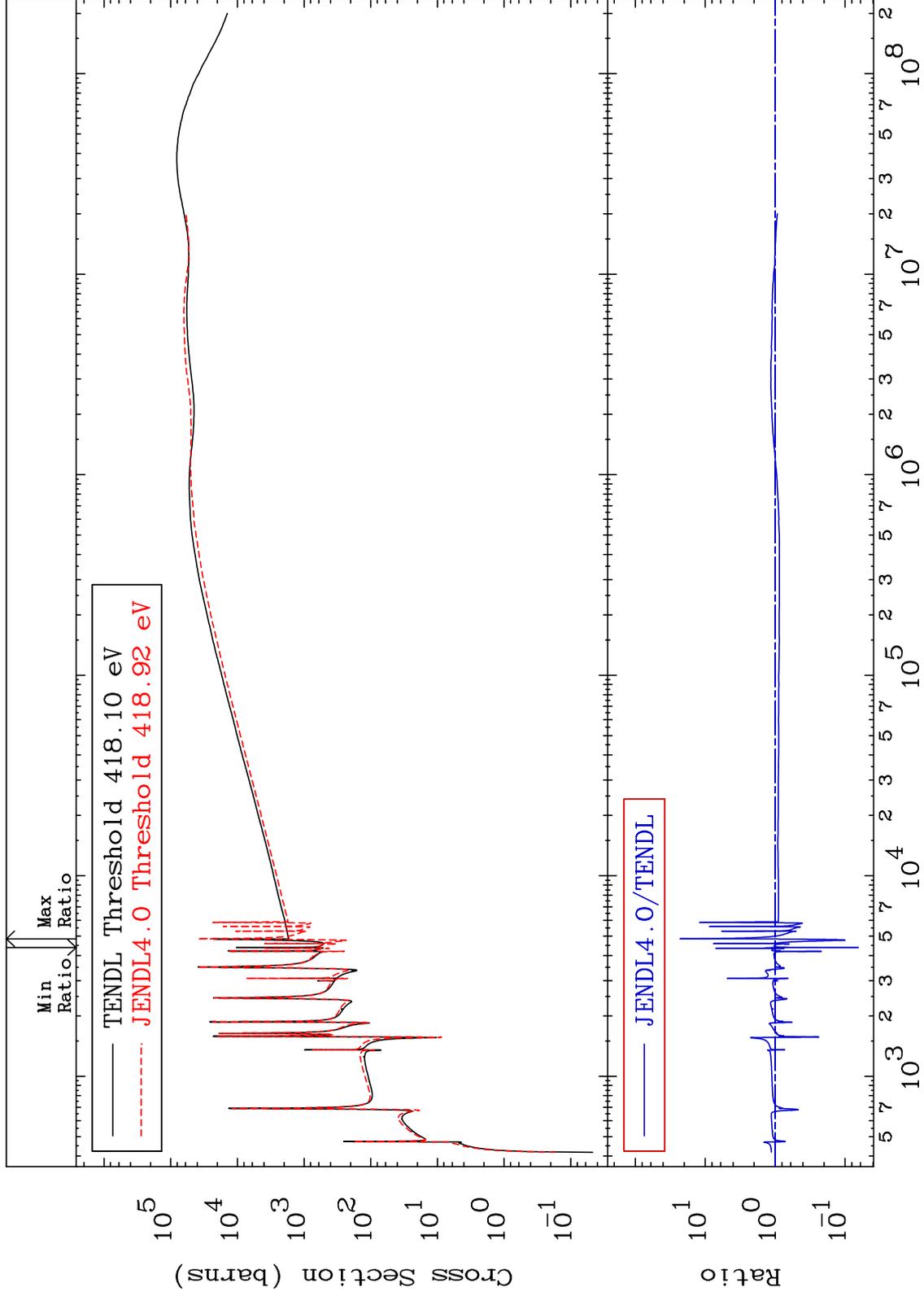
31-Ga-69  
-93.88 To 2264. %



MAT 3125

Dpa elastic (mt2)  
Cross Section

31-Ga-69  
-93.54 To 2201. %



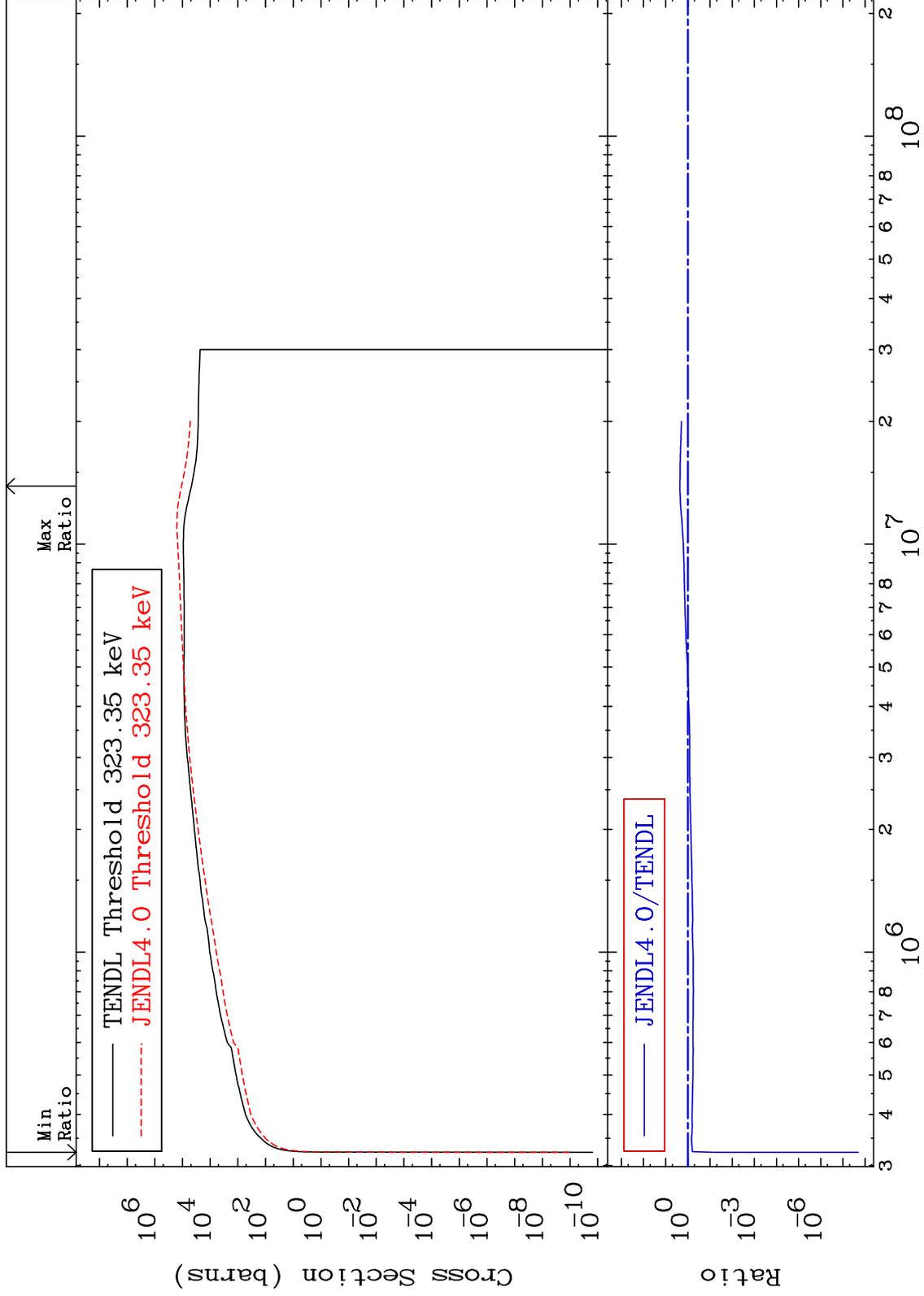
55

31-Ga-69

MAT 3125

Dpa inelastic (mt51-91)  
Cross Section

31-Ga-69  
-100.0 To 127.3 %



56

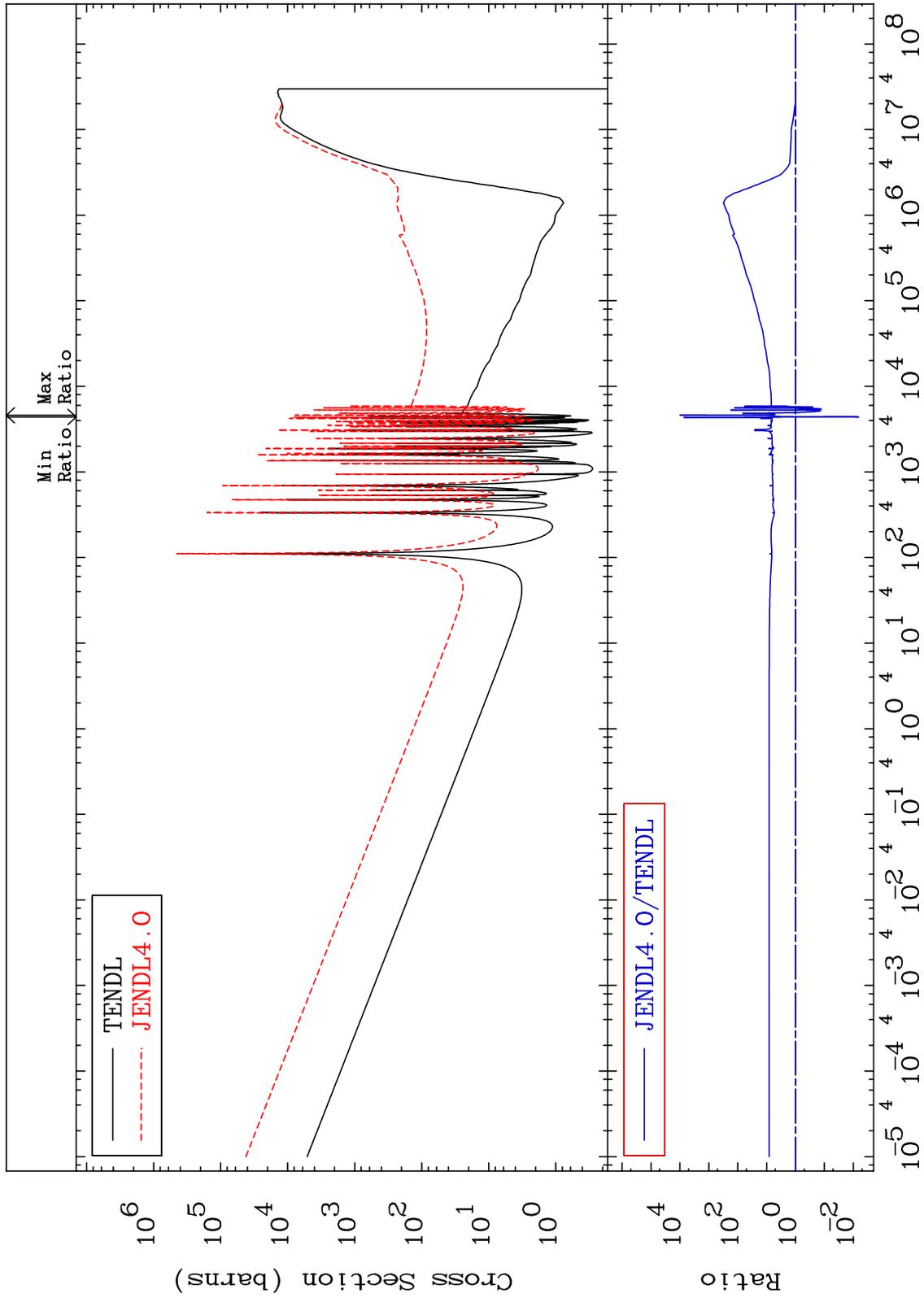
Incident Energy (eV)

31-Ga-69

MAT 3125

Dpa disappearance (mt102 -120)  
Cross Section

31-Ga-69  
-99.33 To 9999. %



57

Incident Energy (eV)

31-Ga-69

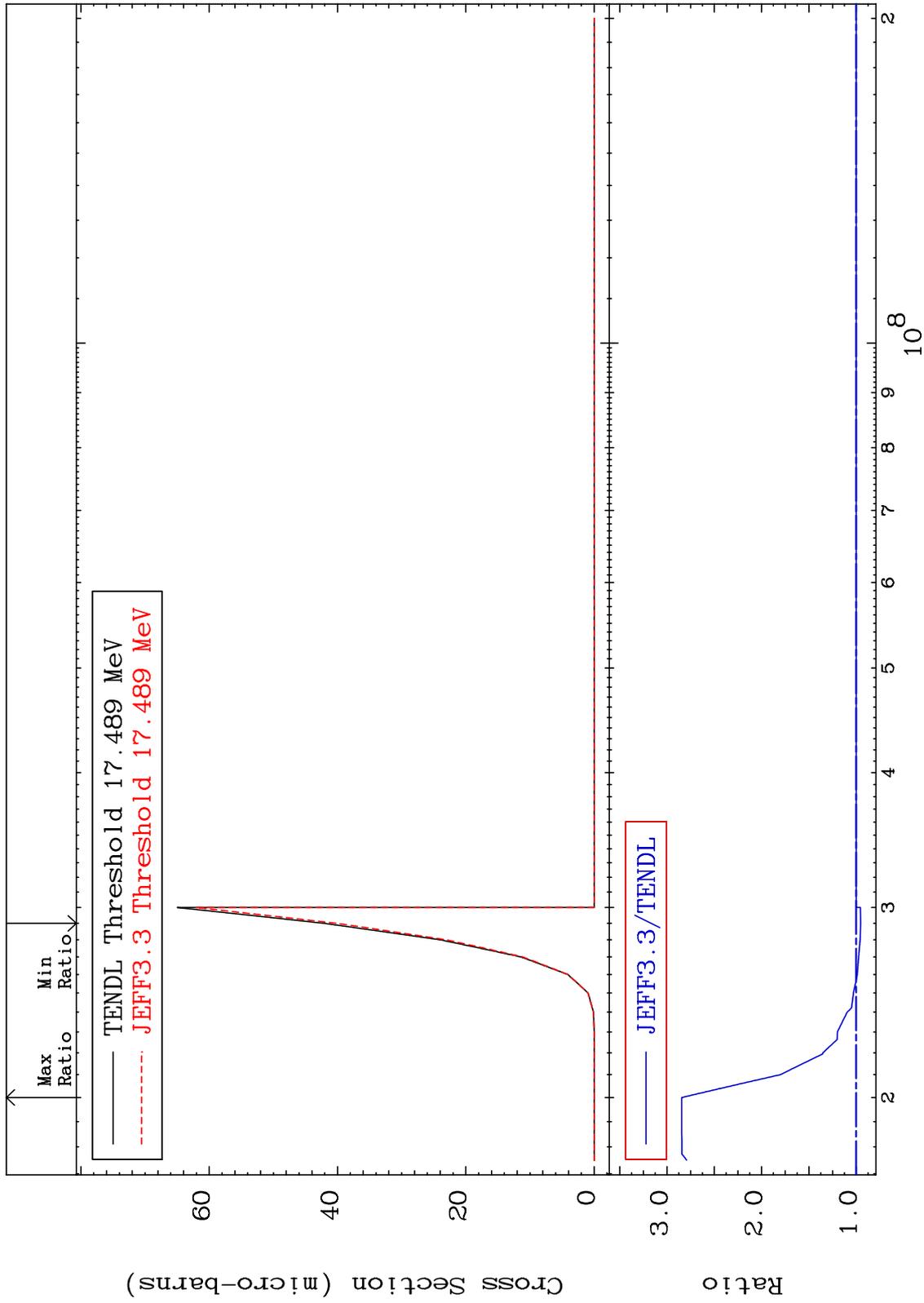
MAT 3125

(n,p) t

31-Ga-69

Cross Section

-4.791 To 184.5 %



58

Incident Energy (eV)

31-Ga-69

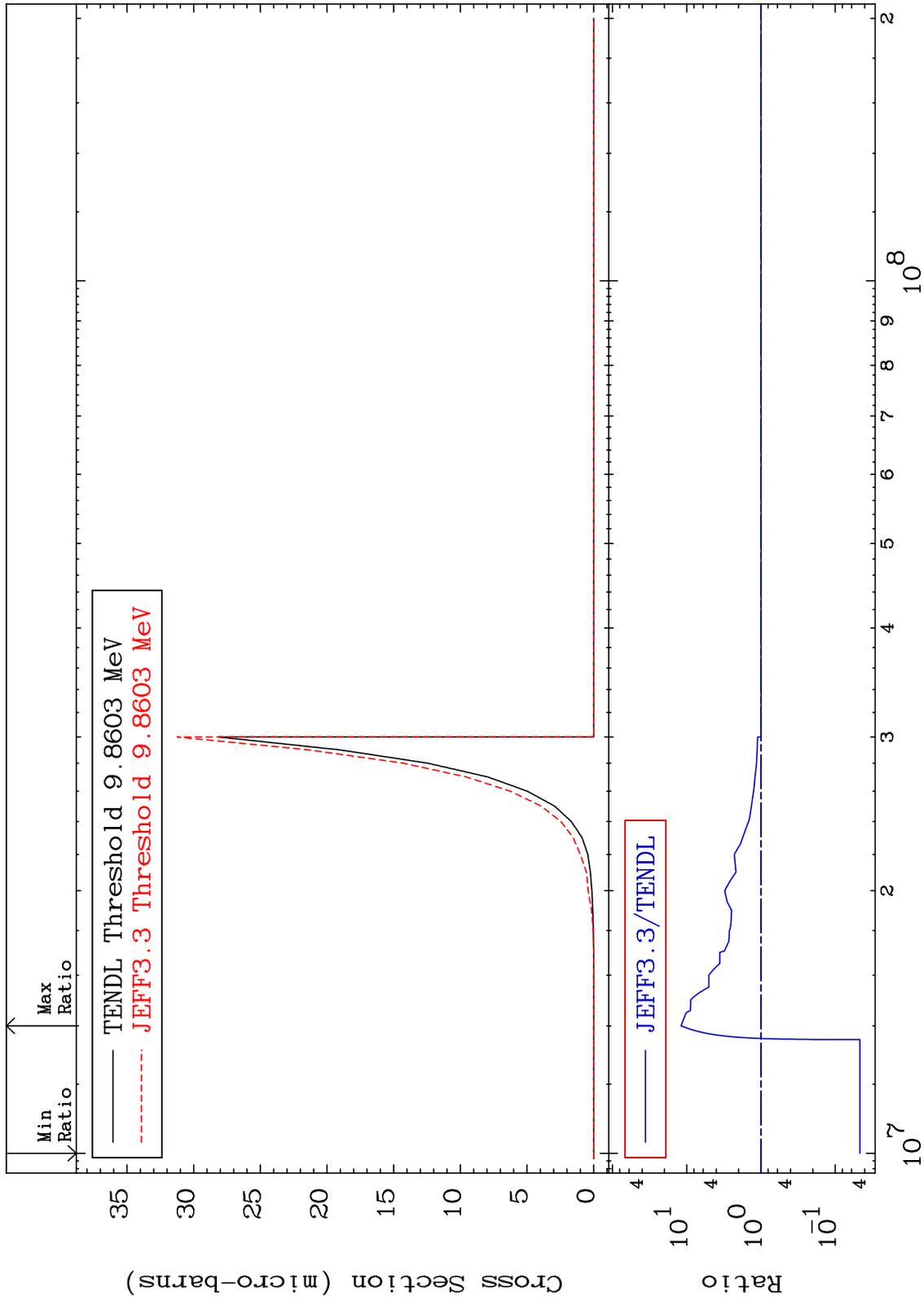
MAT 3125

(n,d)  $\alpha$

31-Ga-69

Cross Section

-95.35 To 1090. %



59

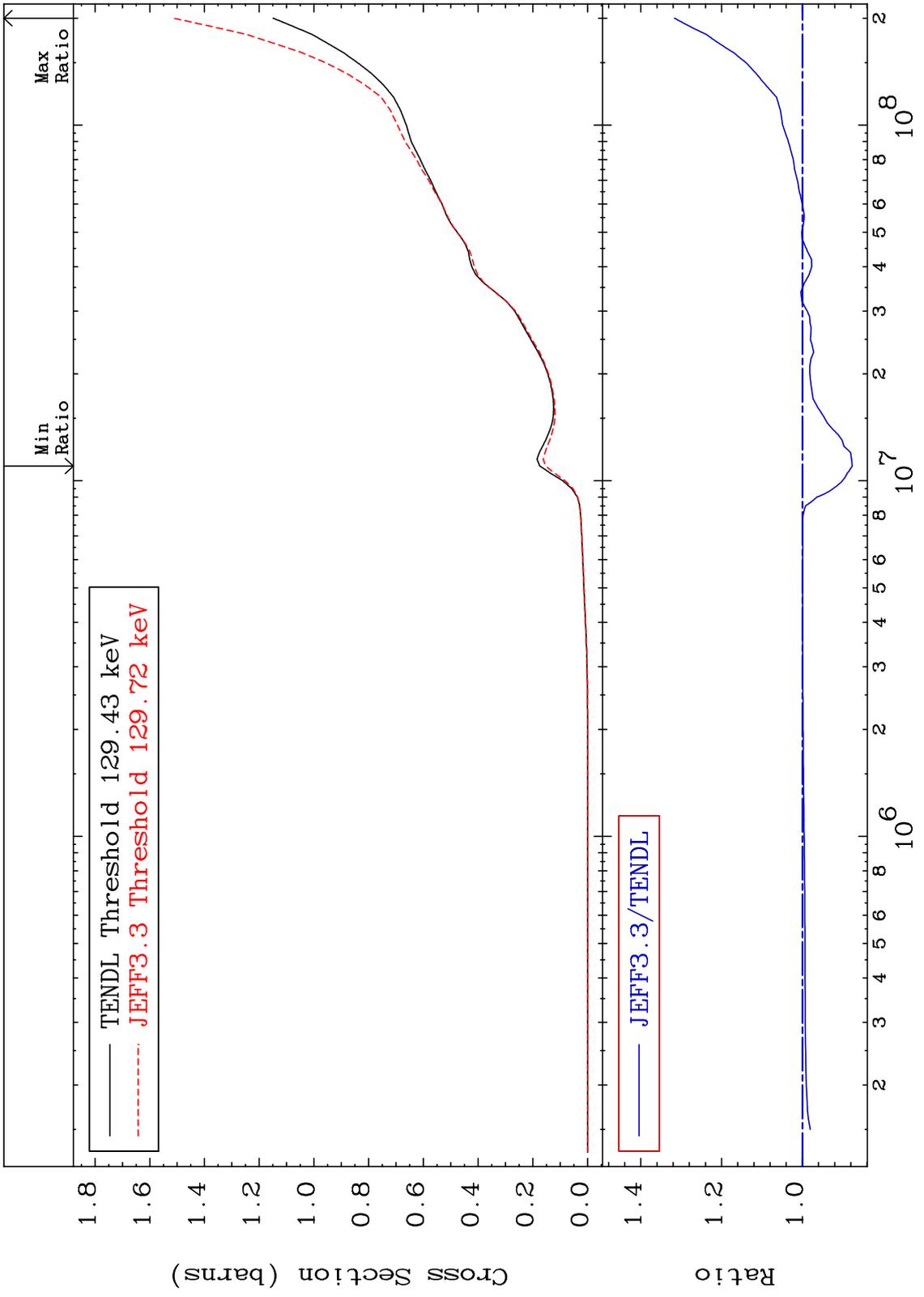
Incident Energy (eV)

31-Ga-69

MAT 3125

Hydrogen Production  
Cross Section

31-Ga-69  
-12.34 To 31.66 %



60

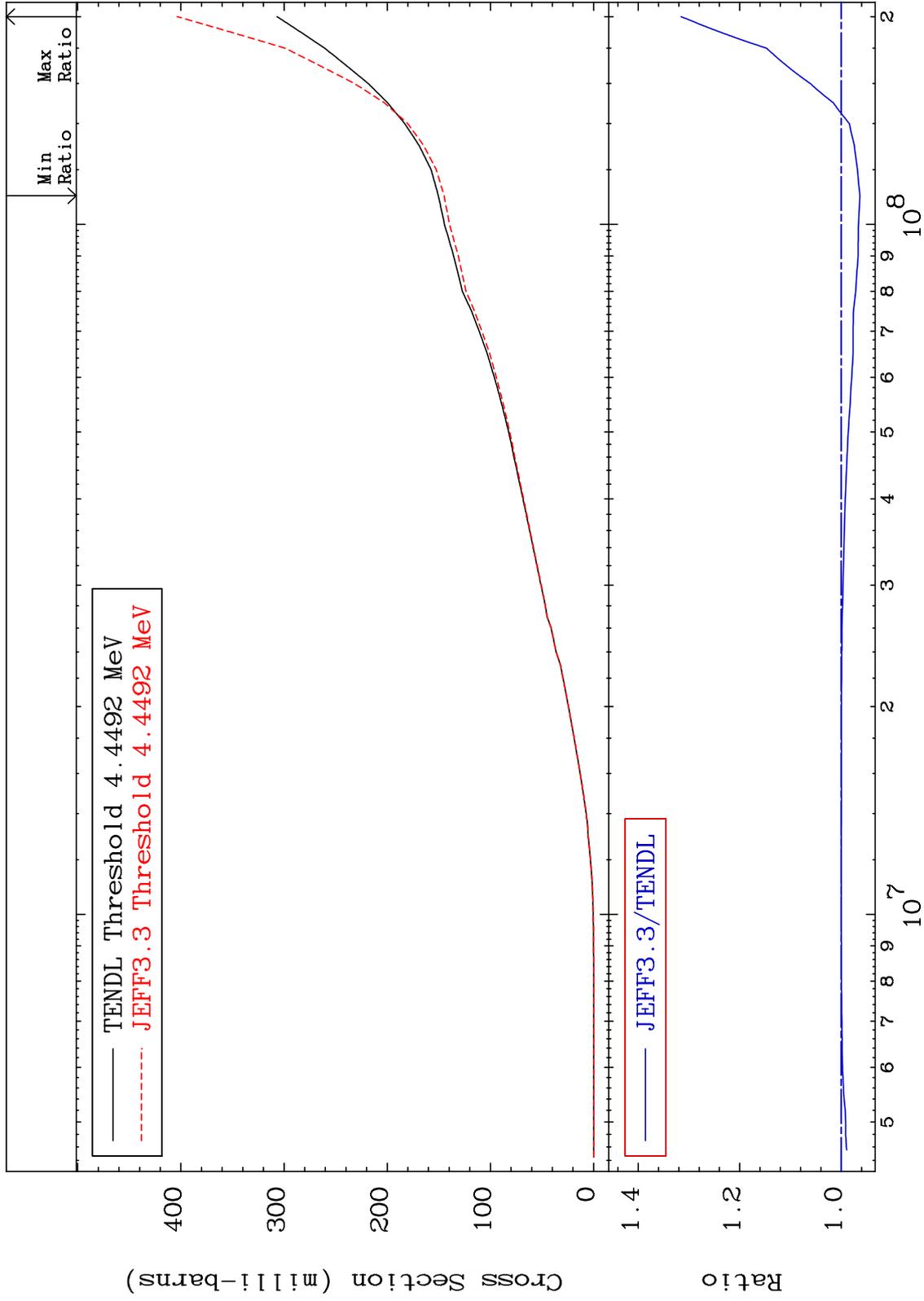
Incident Energy (eV)

31-Ga-69

MAT 3125

Deuterium Production  
Cross Section

31-Ga-69  
-3.681 To 31.54 %



61

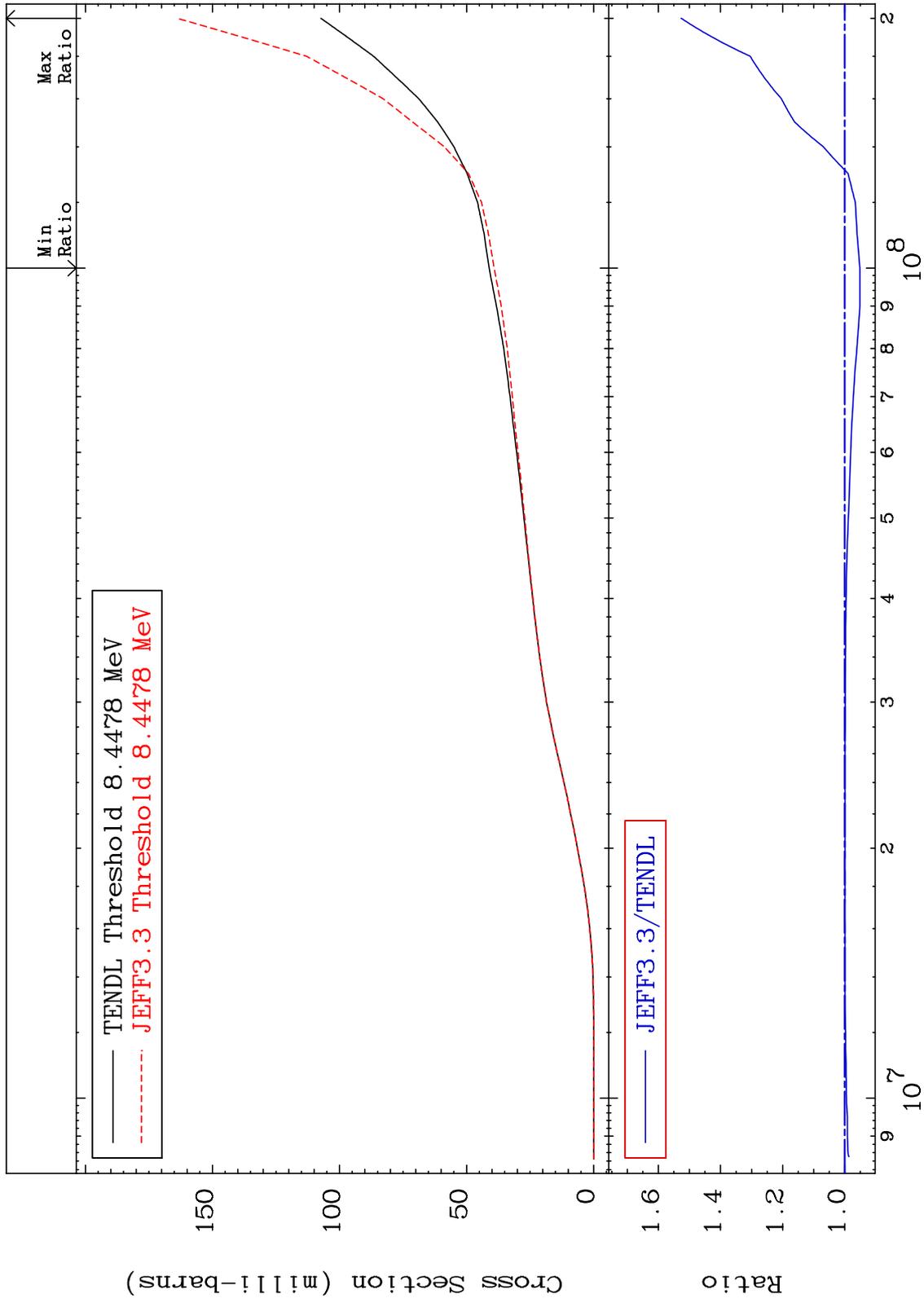
Incident Energy (eV)

31-Ga-69

MAT 3125

Tritium Production  
Cross Section

31-Ga-69  
-4.866 To 52.67 %



62

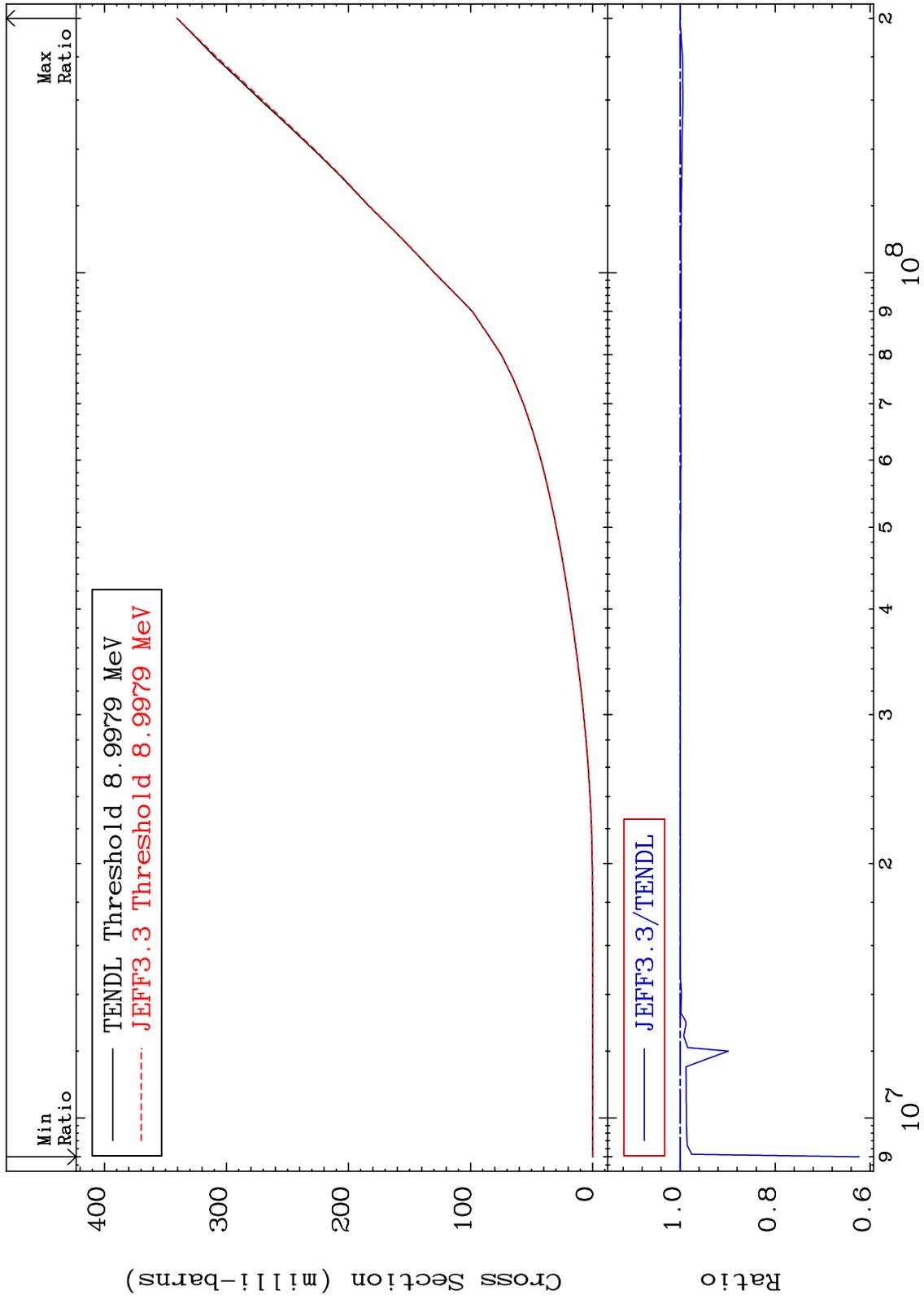
Incident Energy (eV)

31-Ga-69

MAT 3125

He-3 Production  
Cross Section

31-Ga-69  
-37.53 To 0.045 %



63

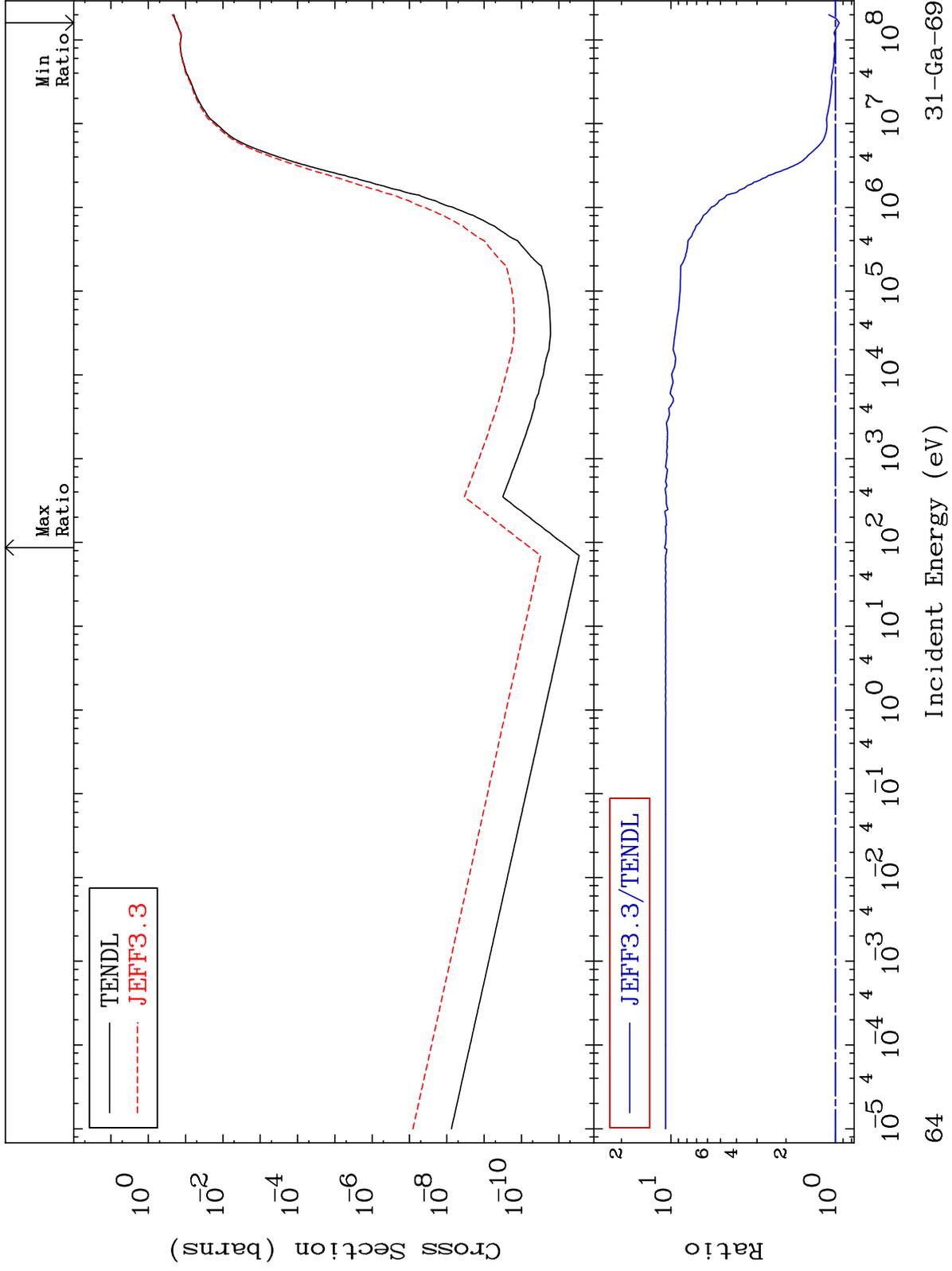
Incident Energy (eV)

31-Ga-69

MAT 3125

He-4 Production  
Cross Section

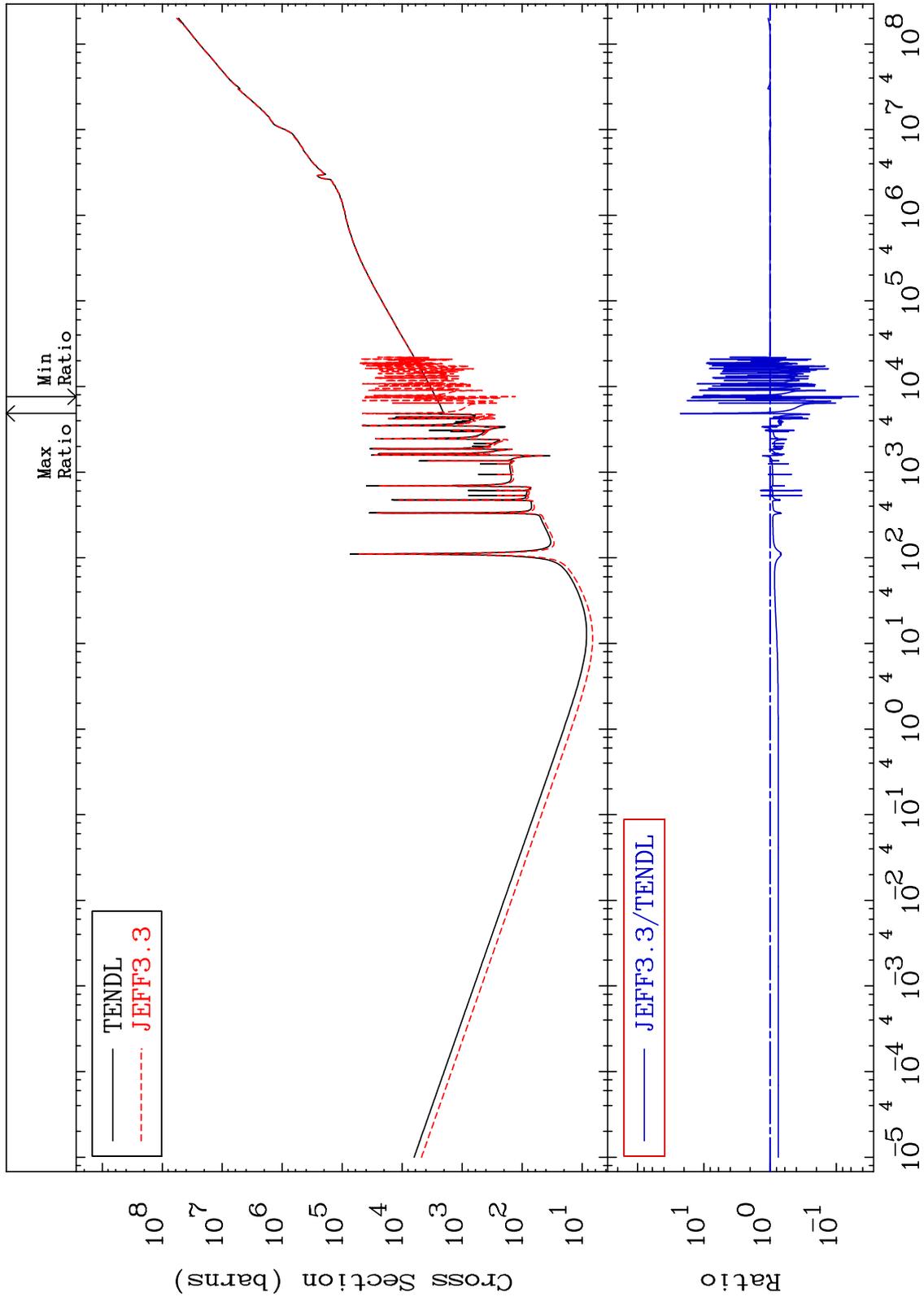
31-Ga-69  
-5.056 To 993.5 %



MAT 3125

Kerma total (eV-barns)  
Cross Section

31-Ga-69  
-95.36 To 2198. %



65

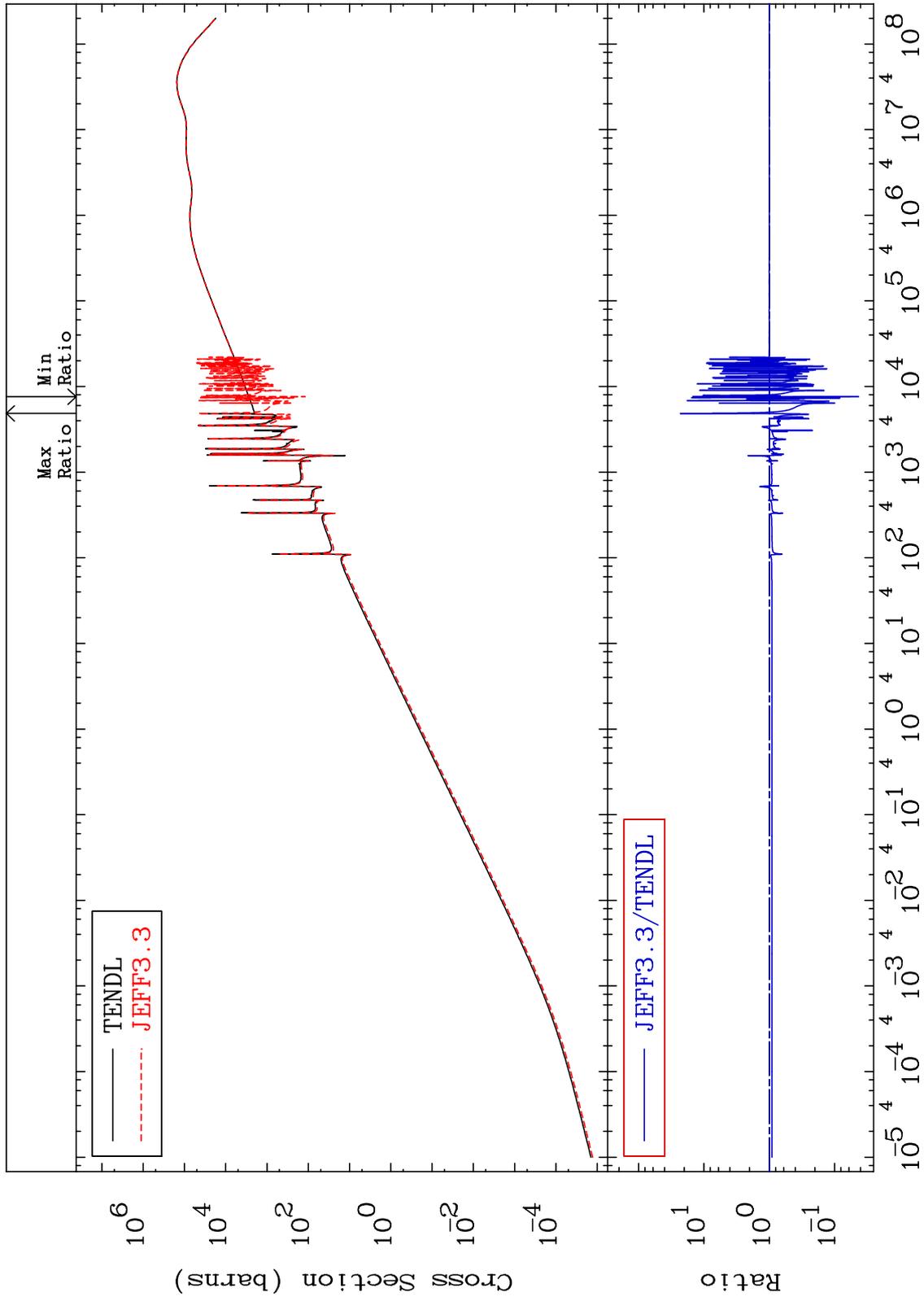
Incident Energy (eV)

31-Ga-69

MAT 3125

Kerma elastic  
Cross Section

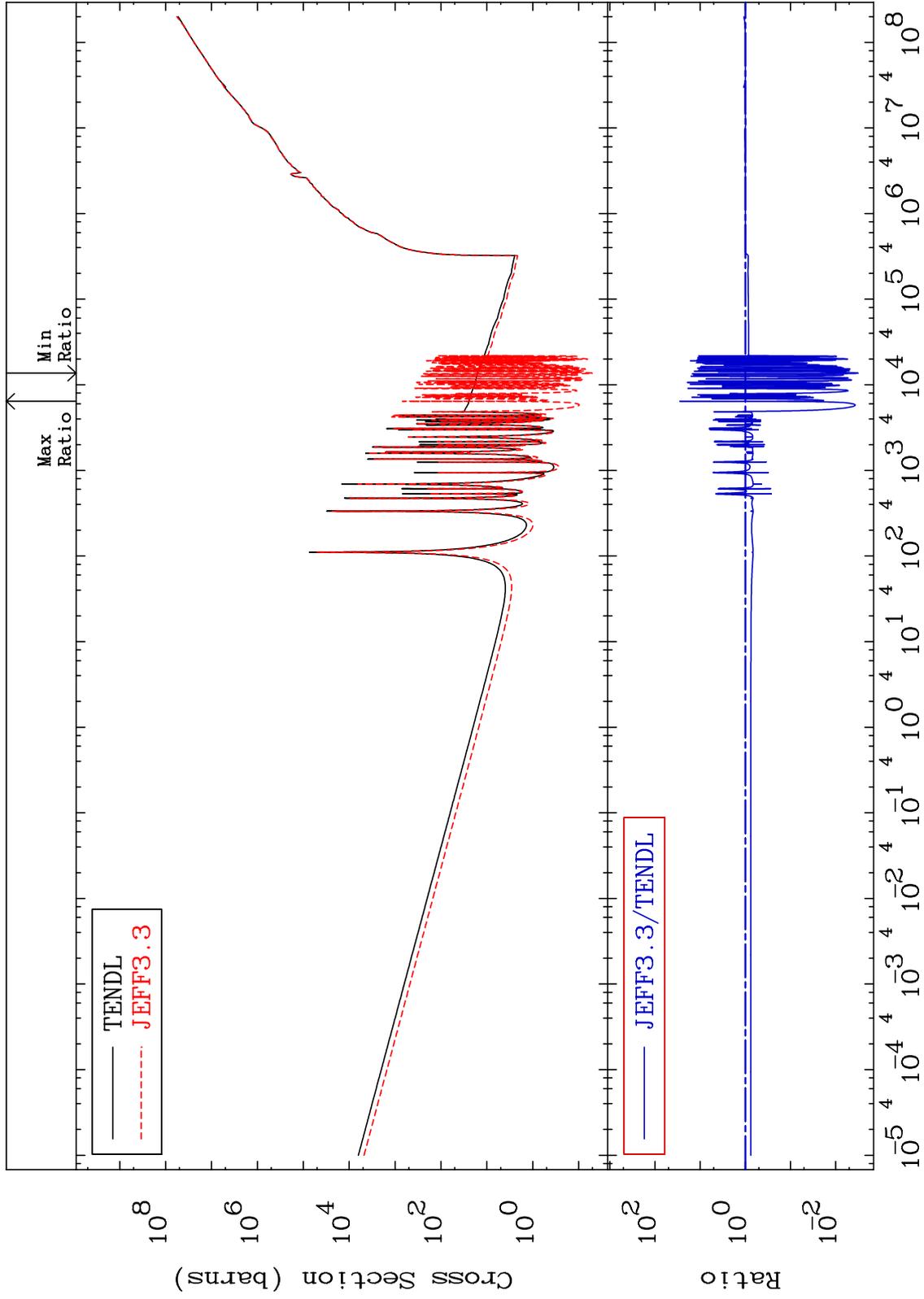
31-Ga-69  
-95.68 To 2226. %



MAT 3125

Kerma non-elastic (all but mt2)  
Cross Section

31-Ga-69  
-99.69 To 2697. %



67

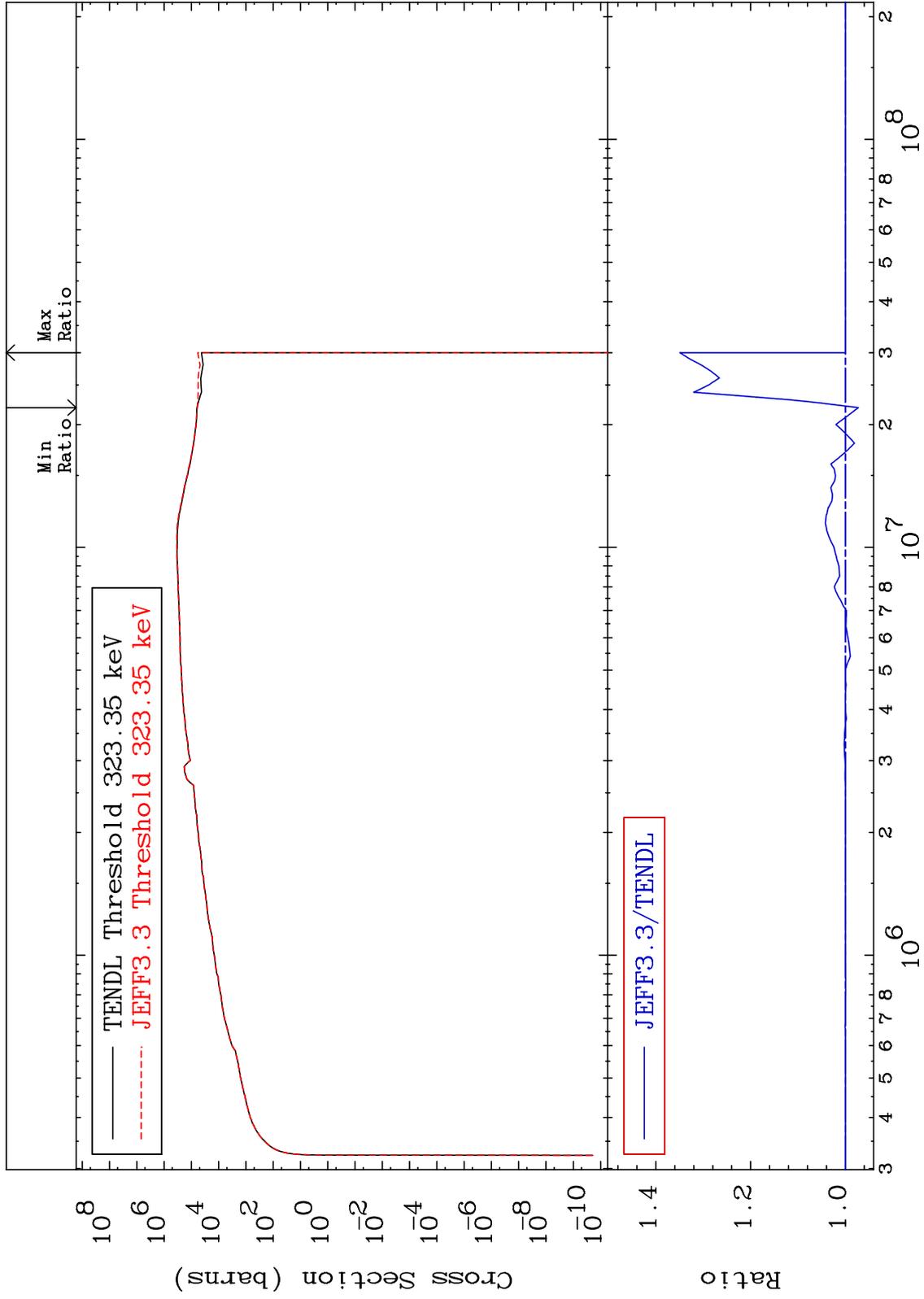
Incident Energy (eV)

31-Ga-69

MAT 3125

Kerma inelastic (mt51-91)  
Cross Section

31-Ga-69  
-2.748 To 34.92 %



68

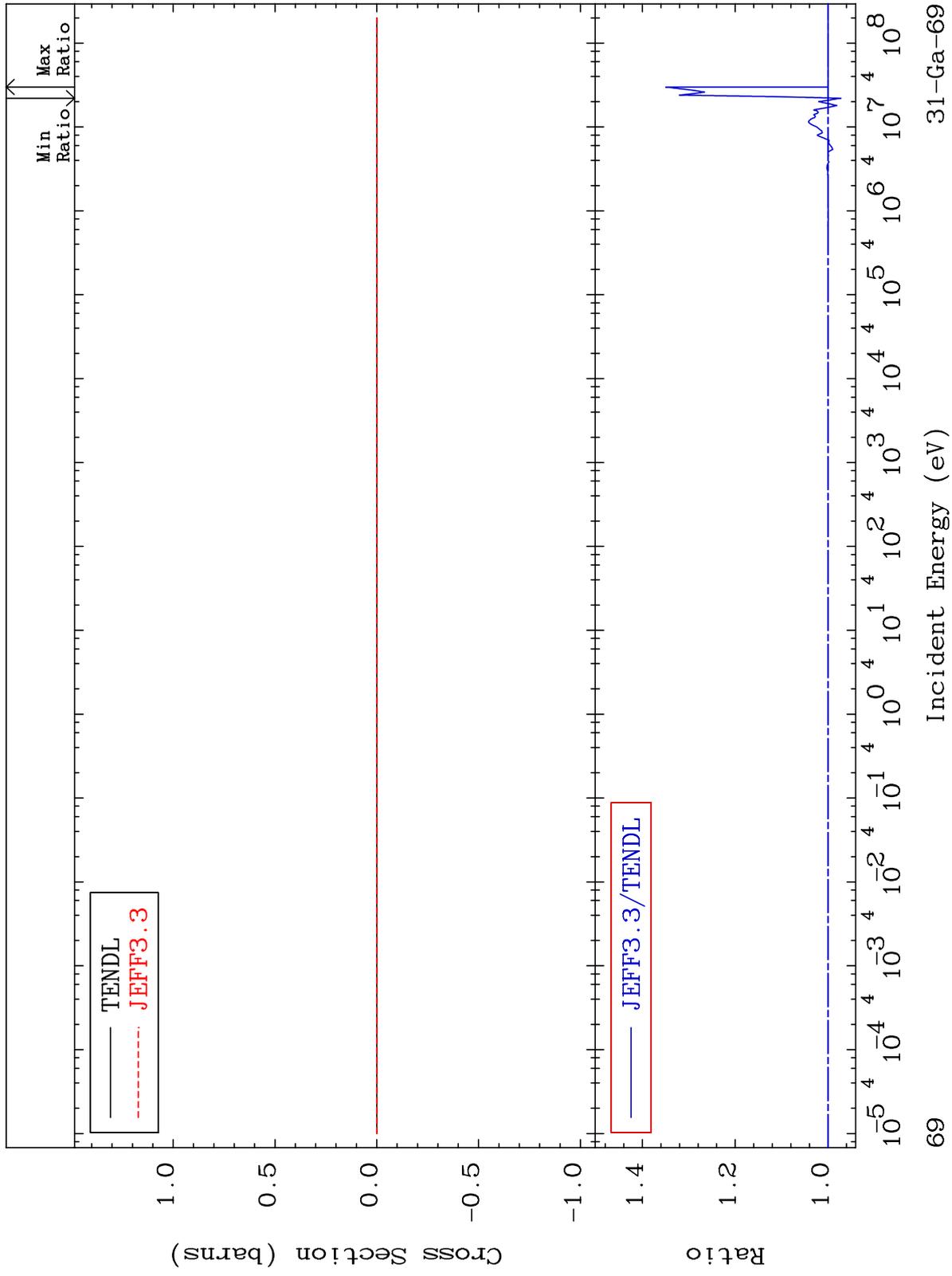
Incident Energy (eV)

31-Ga-69

MAT 3125

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

31-Ga-69  
-2.748 To 34.92 %



69

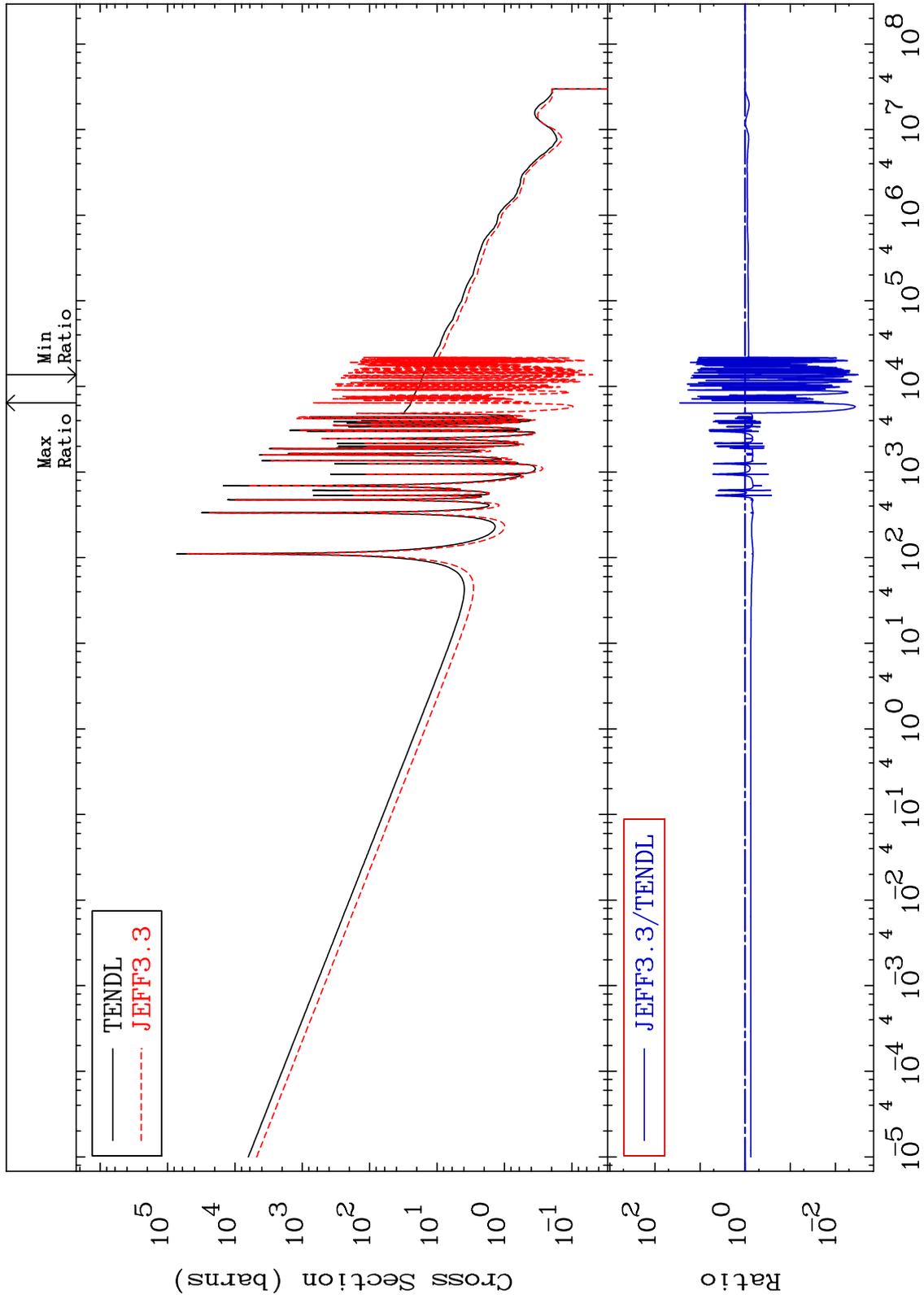
Incident Energy (eV)

31-Ga-69

MAT 3125

Kerma capture (mt102)  
Cross Section

31-Ga-69  
-99.69 To 2697. %



70

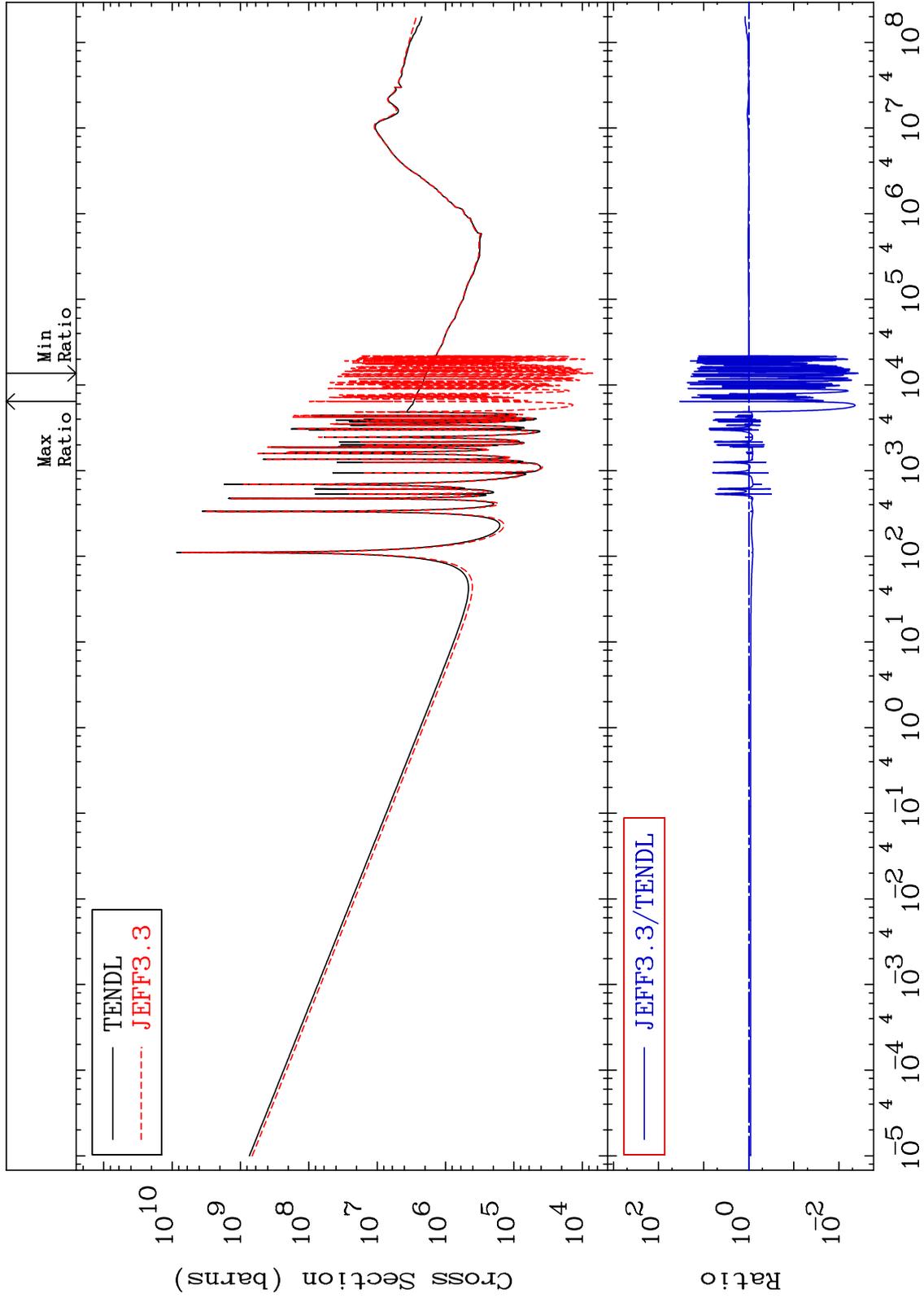
Incident Energy (eV)

31-Ga-69

MAT 3125

Total photon (eV-barns)  
Cross Section

31-Ga-69  
-99.63 To 3255. %



71

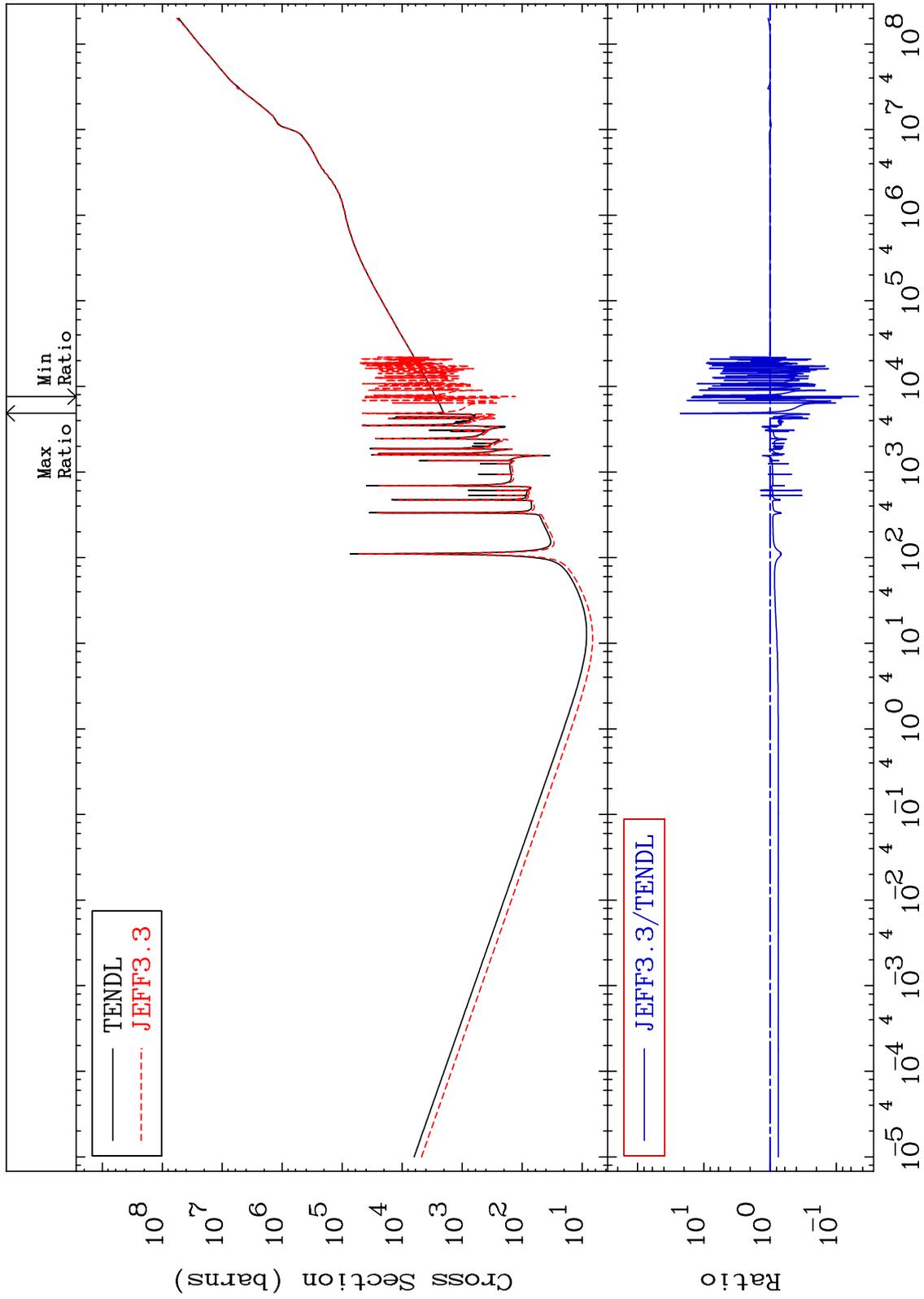
Incident Energy (eV)

31-Ga-69

MAT 3125

Total kinematic kerma (high limit)  
Cross Section

31-Ga-69  
-95.36 To 2198. %



72

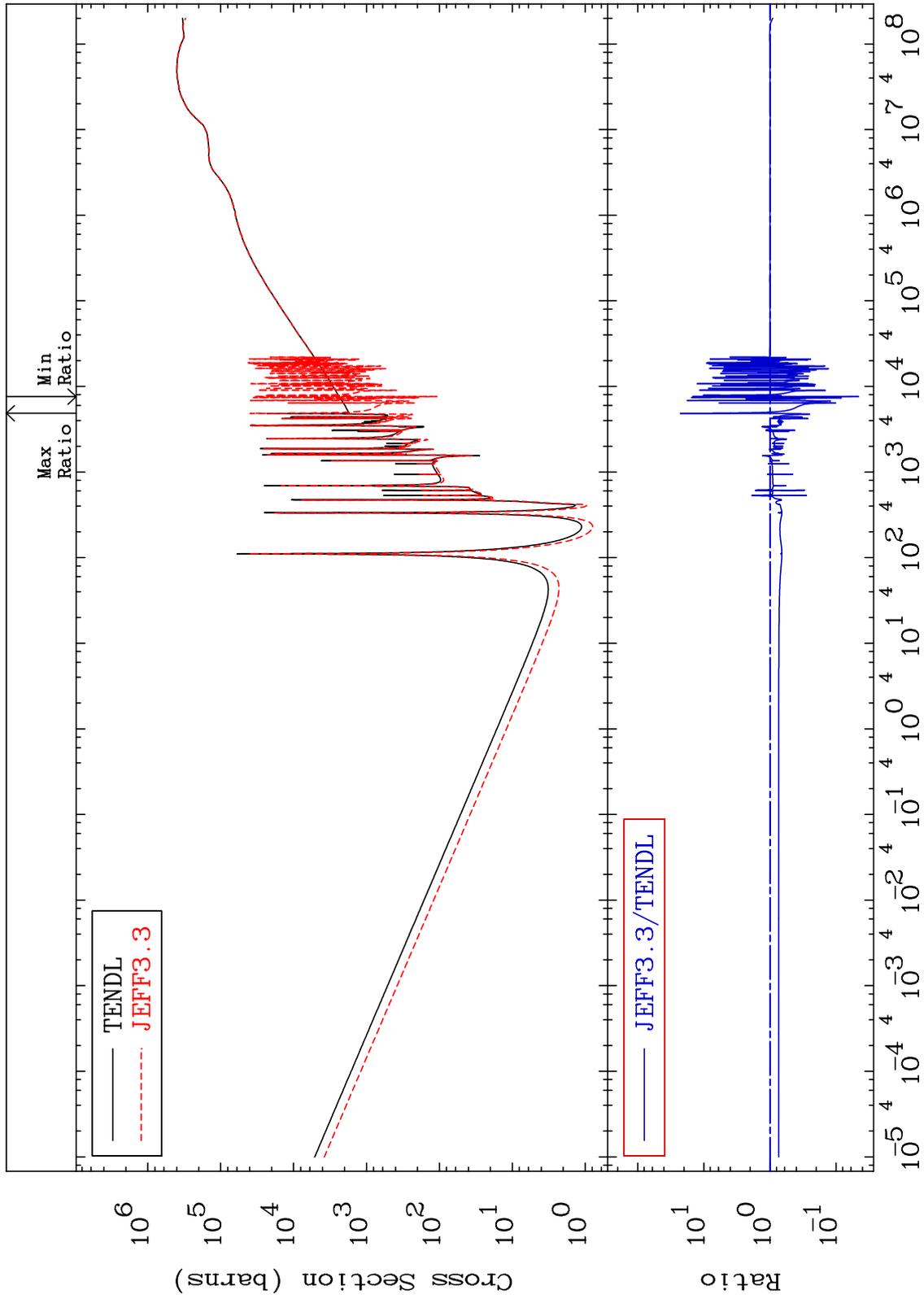
Incident Energy (eV)

31-Ga-69

MAT 3125

Dpa total (eV-barns)  
Cross Section

31-Ga-69  
-95.38 To 2199. %



73

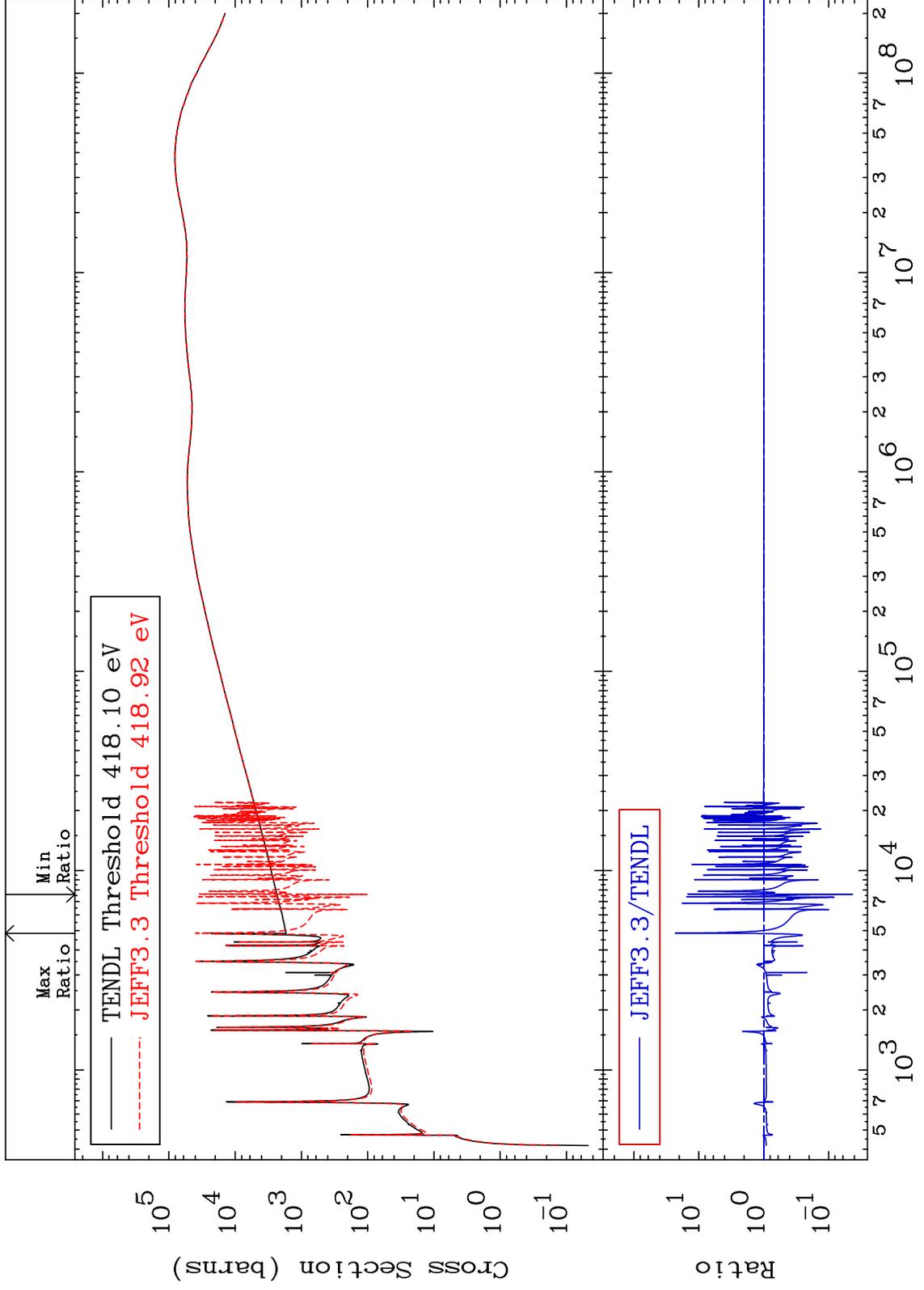
Incident Energy (eV)

31-Ga-69

MAT 3125

Dpa elastic (mt2)  
Cross Section

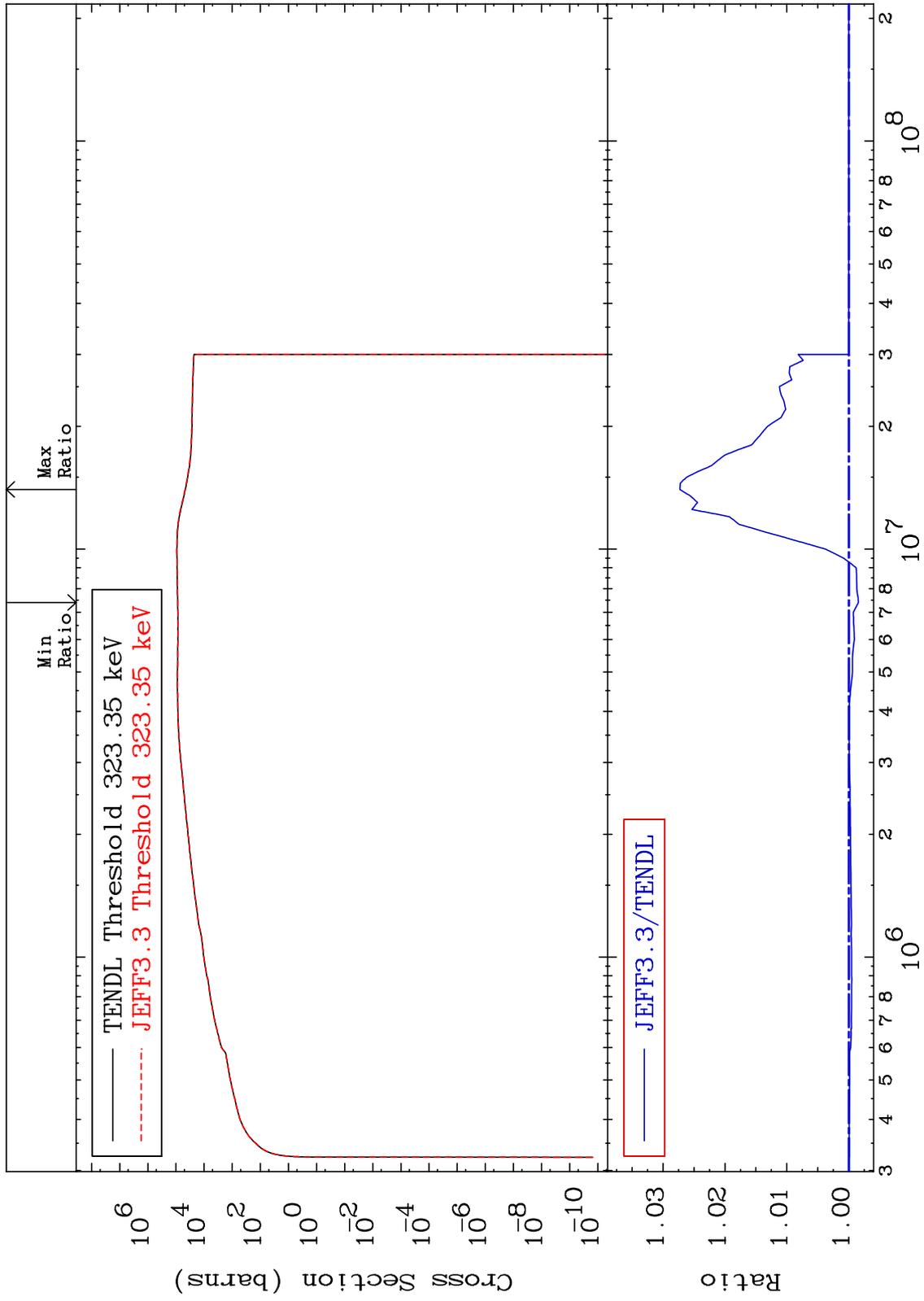
31-Ga-69  
-95.68 To 2226. %



MAT 3125

Dpa inelastic (mt51-91)  
Cross Section

31-Ga-69  
-0.154 To 2.726 %



75

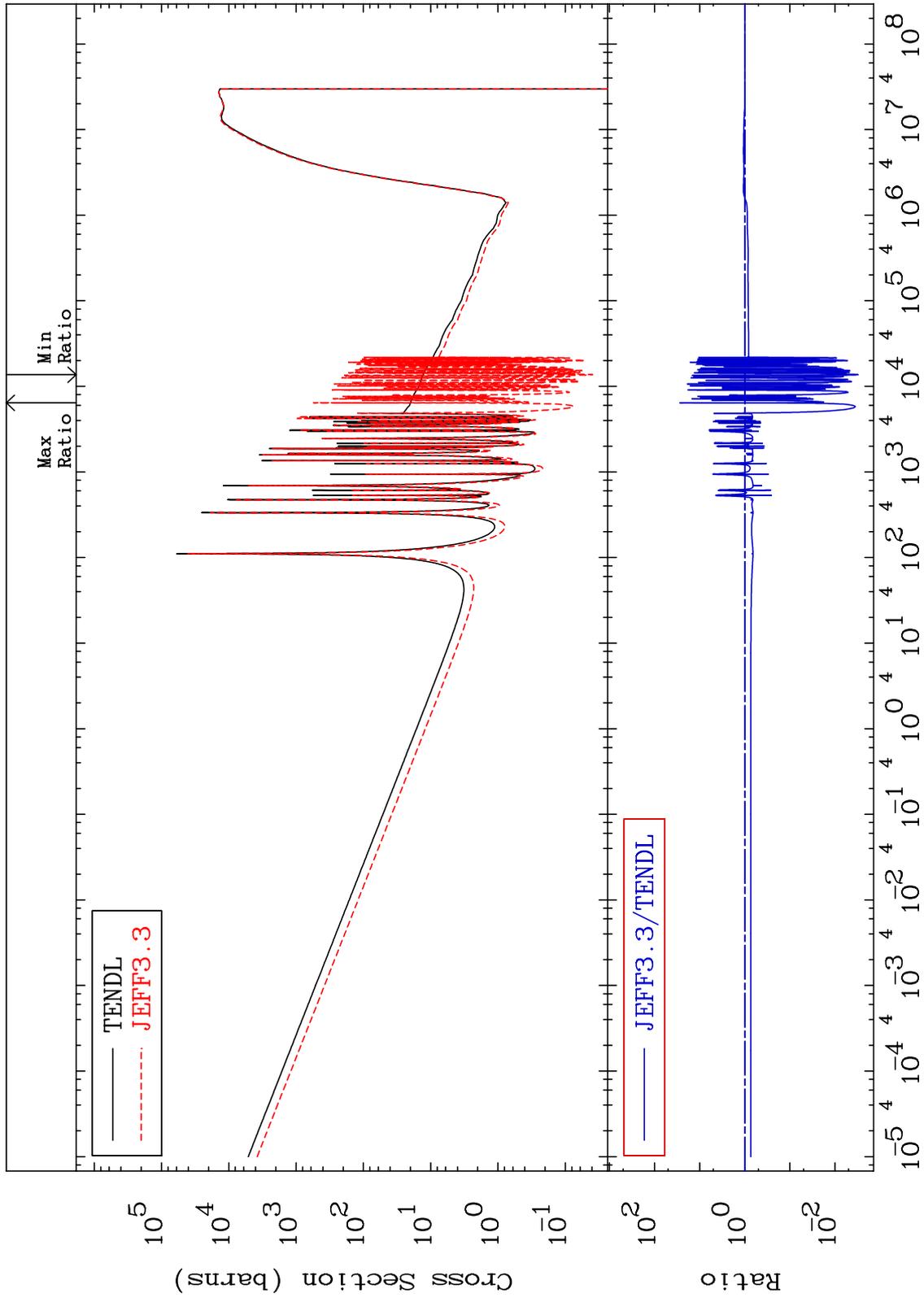
Incident Energy (eV)

31-Ga-69

MAT 3125

Dpa disappearance (mt102 -120)  
Cross Section

31-Ga-69  
-99.70 To 2645. %



76

Incident Energy (eV)

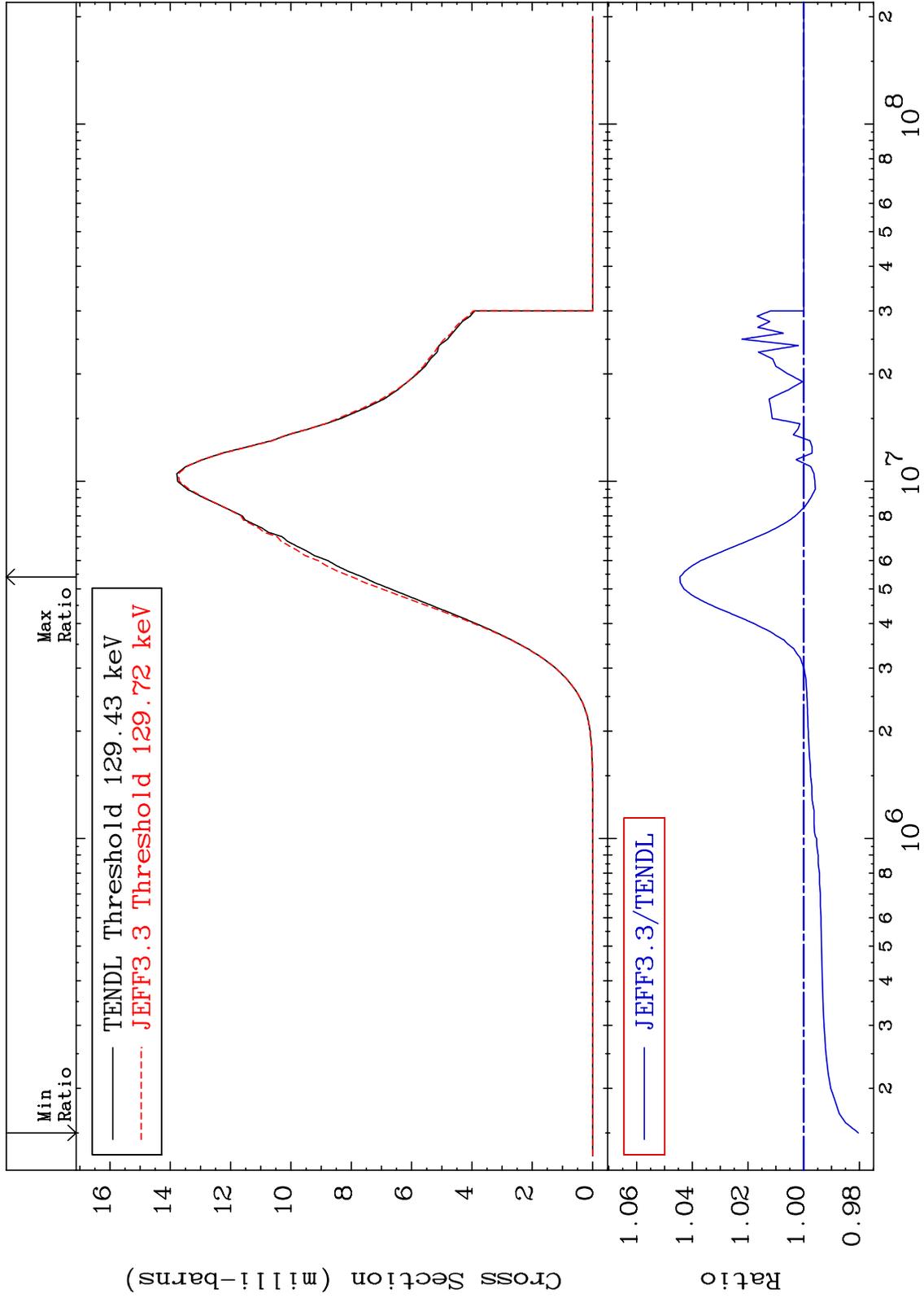
31-Ga-69

MAT 3125

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

31-Ga-69

Radionuclide Production Cross Section -1.963 To 4.447 %

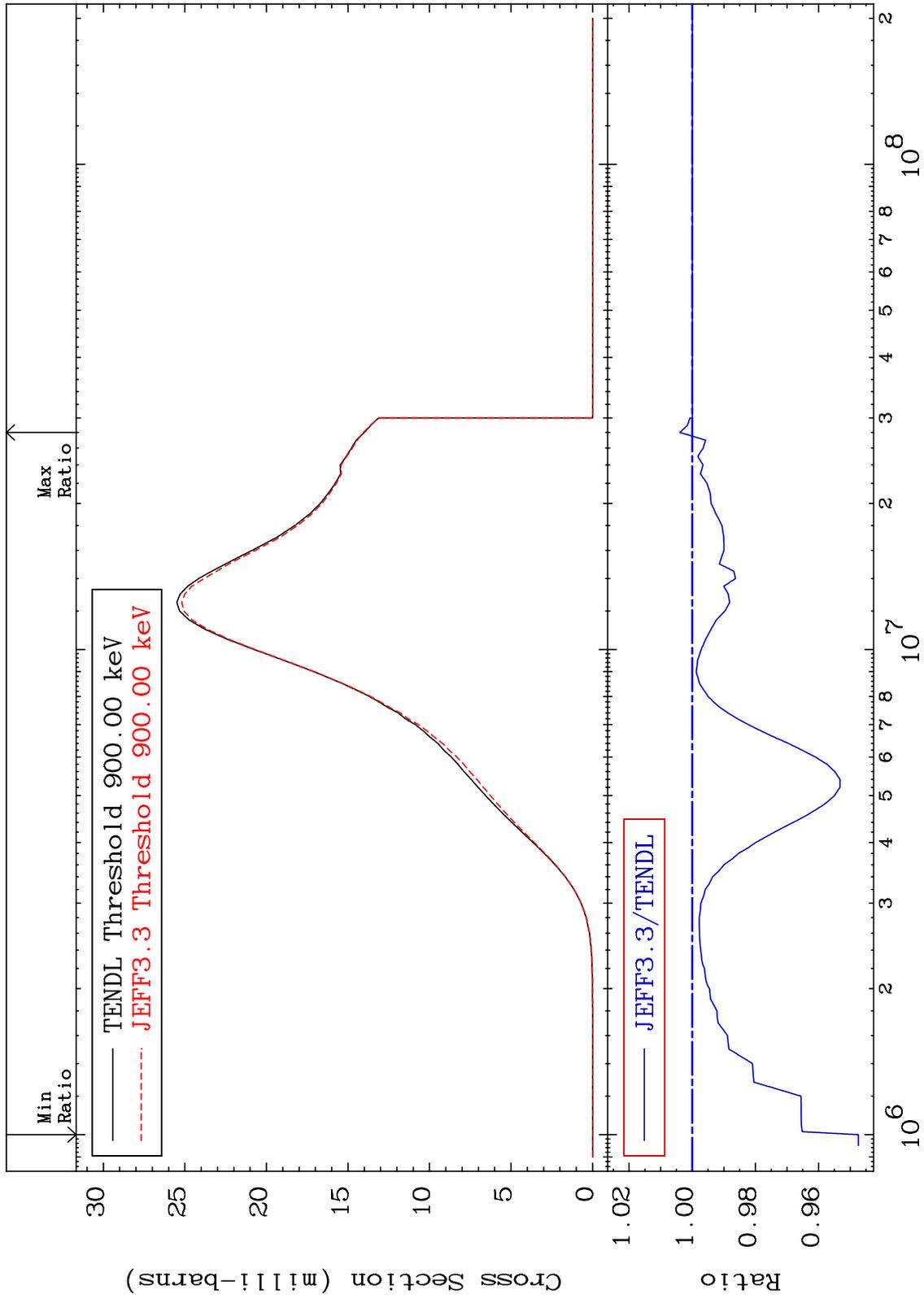


MAT 3125

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

31-Ga-69

Radionuclide Production Cross Section -5.260 To 0.390 %



78

Incident Energy (eV)

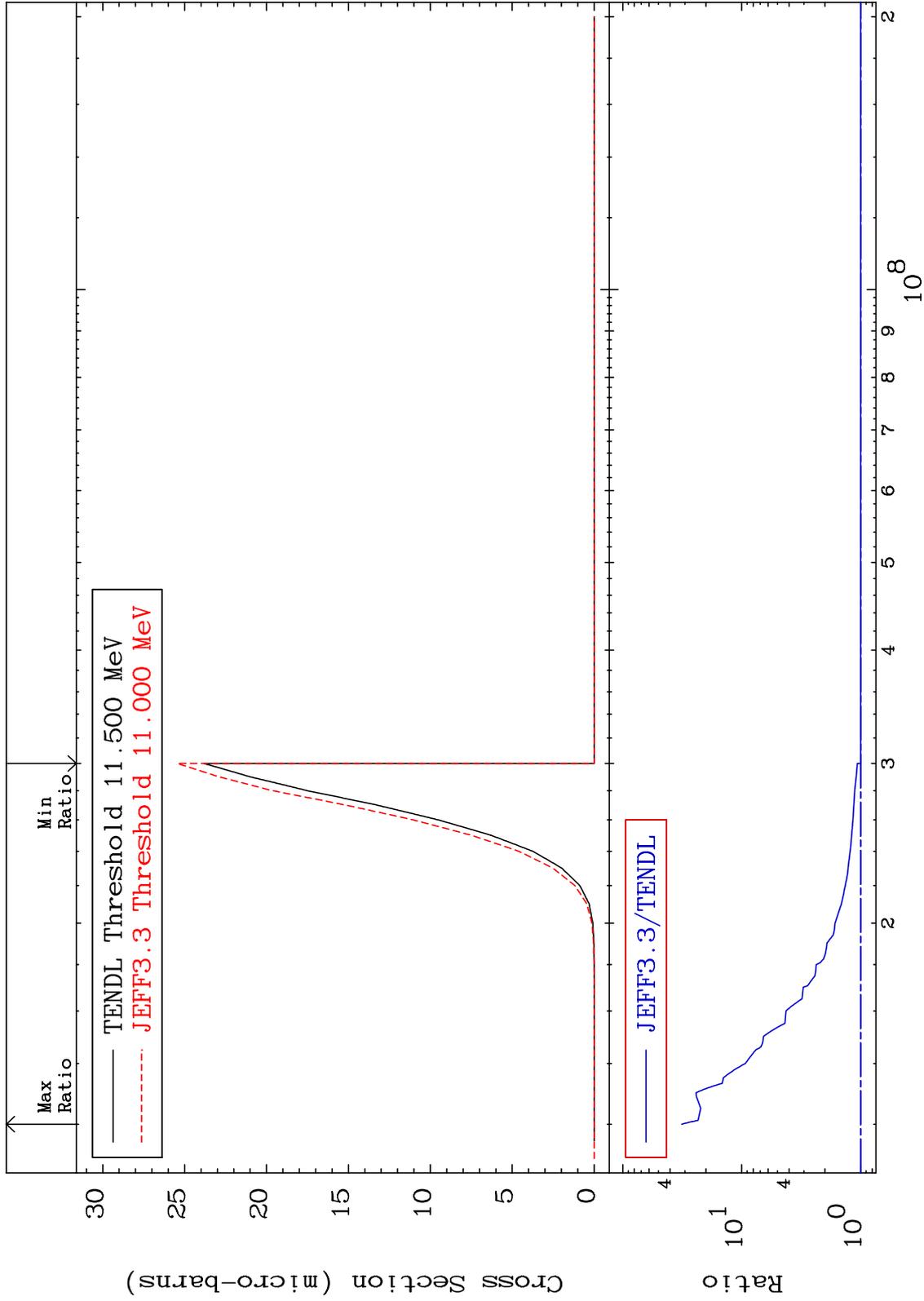
31-Ga-69

MAT 3125

(n,2α):27-Co-62g

31-Ga-69

Radionuclide Production Cross Section 0.000 To 3093. %

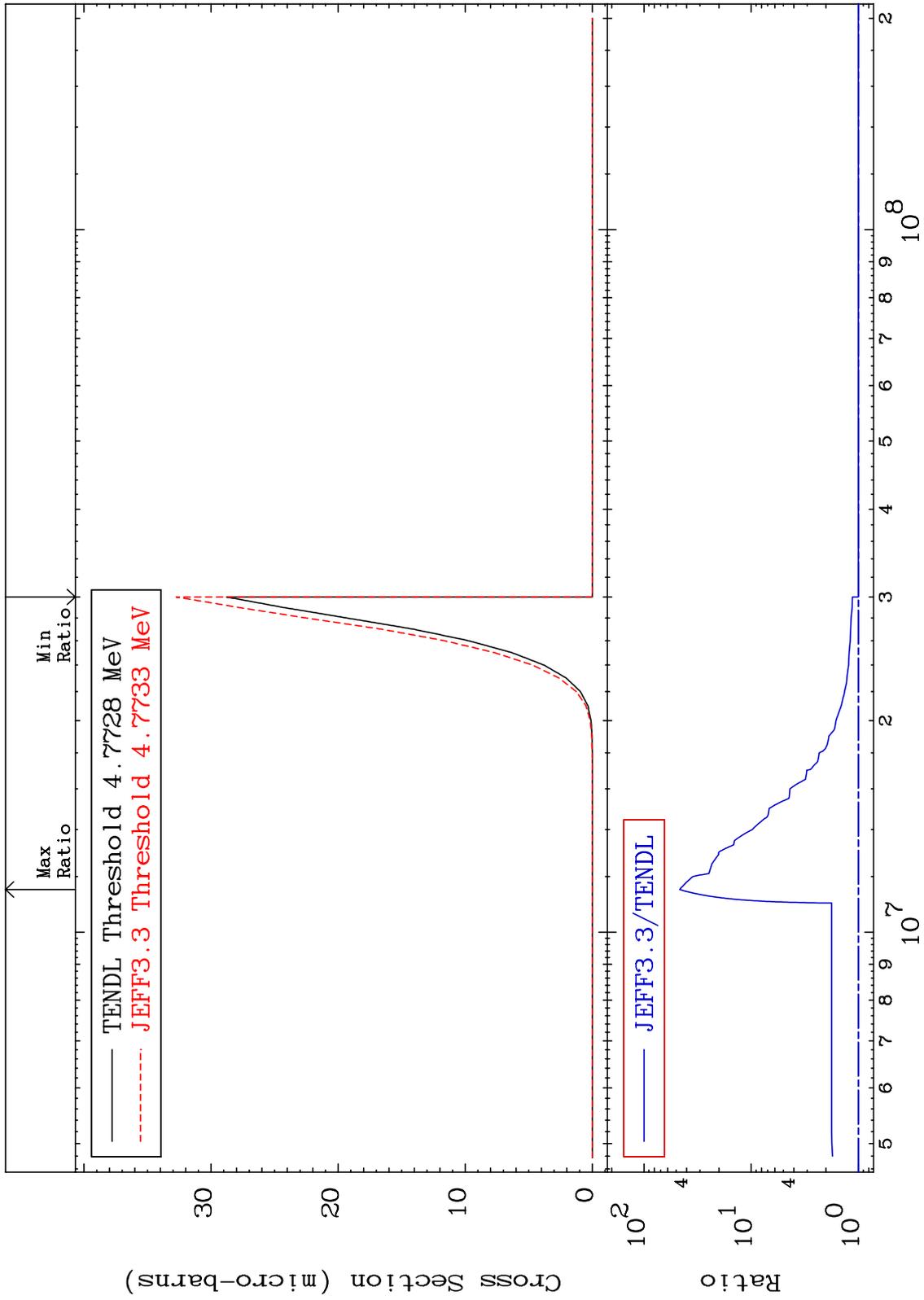


MAT 3125

(n, 2α) : 27-Co-62m1

31-Ga-69

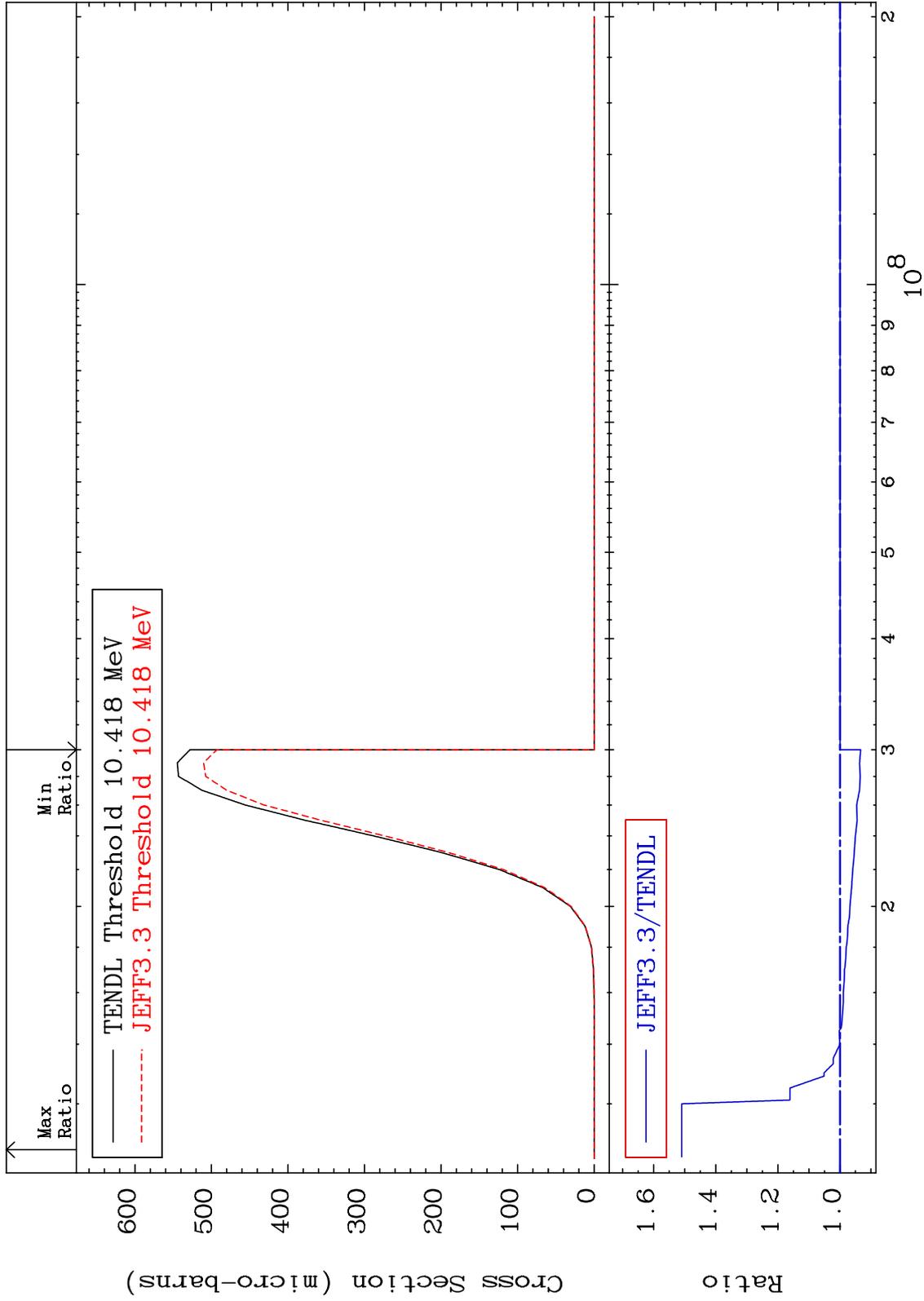
Radionuclide Production Cross Section 0.000 To 4538. %



80

Incident Energy (eV)

31-Ga-69



MAT 3125

(n,2p):29-Cu-68m3

31-Ga-69

Radionuclide Production Cross Section -8.474 To 16.79 %

