

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

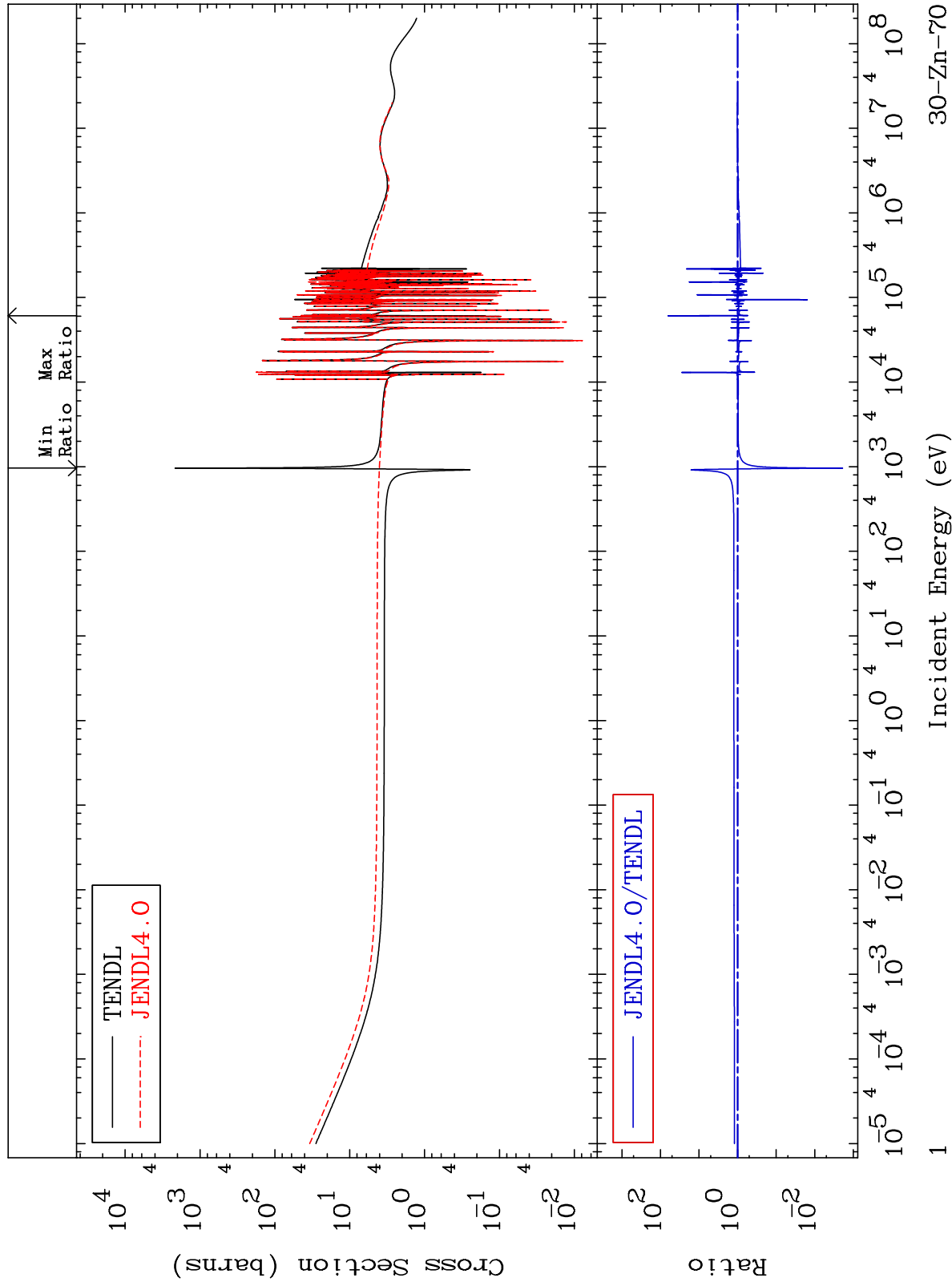
MAT 3043

Total

30-Zn-70

Cross Section

-99.81 To 6281. %



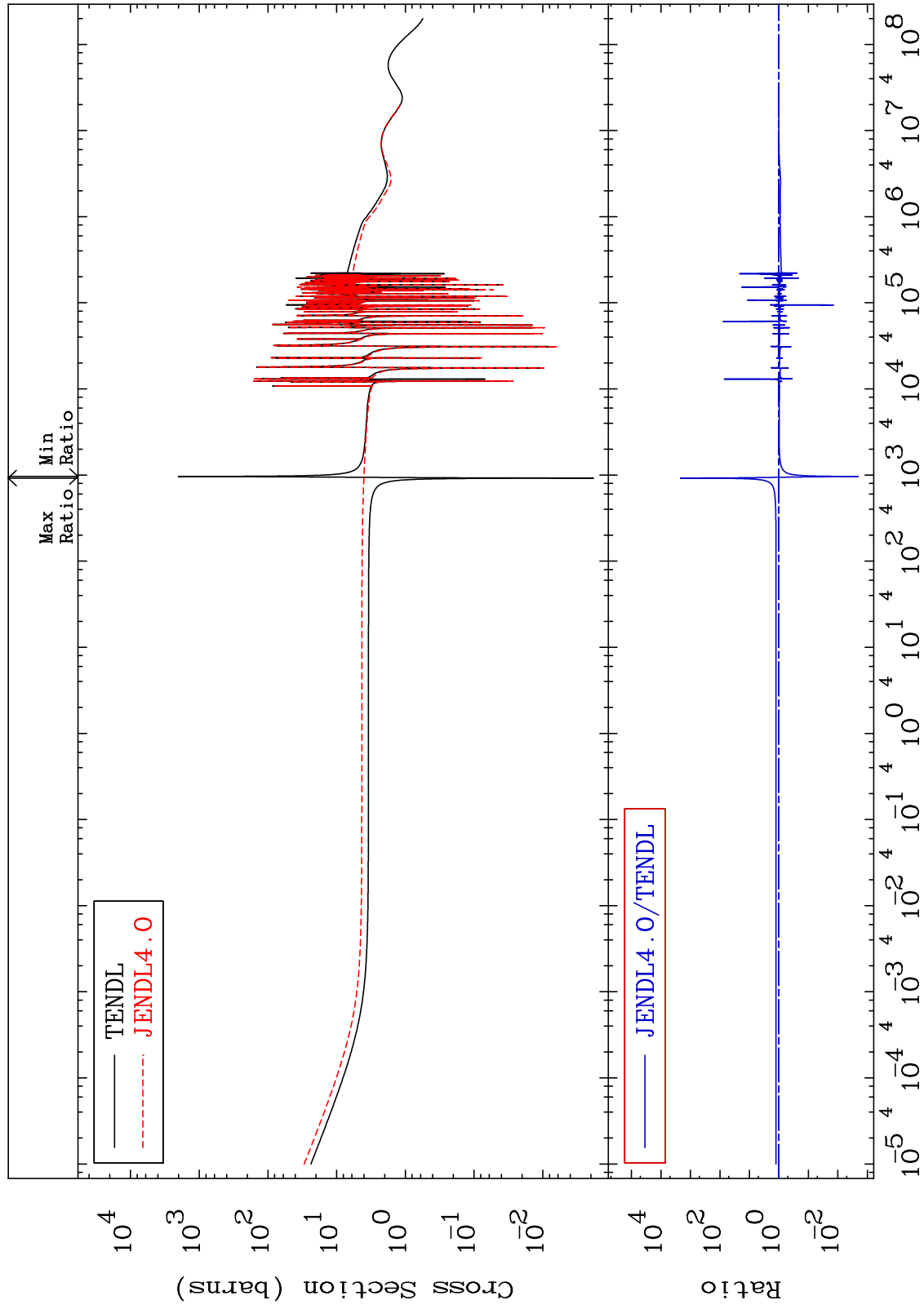
MAT 3043

Elastic

Cross Section

30-Zn-70

-99.80 To 9999. %



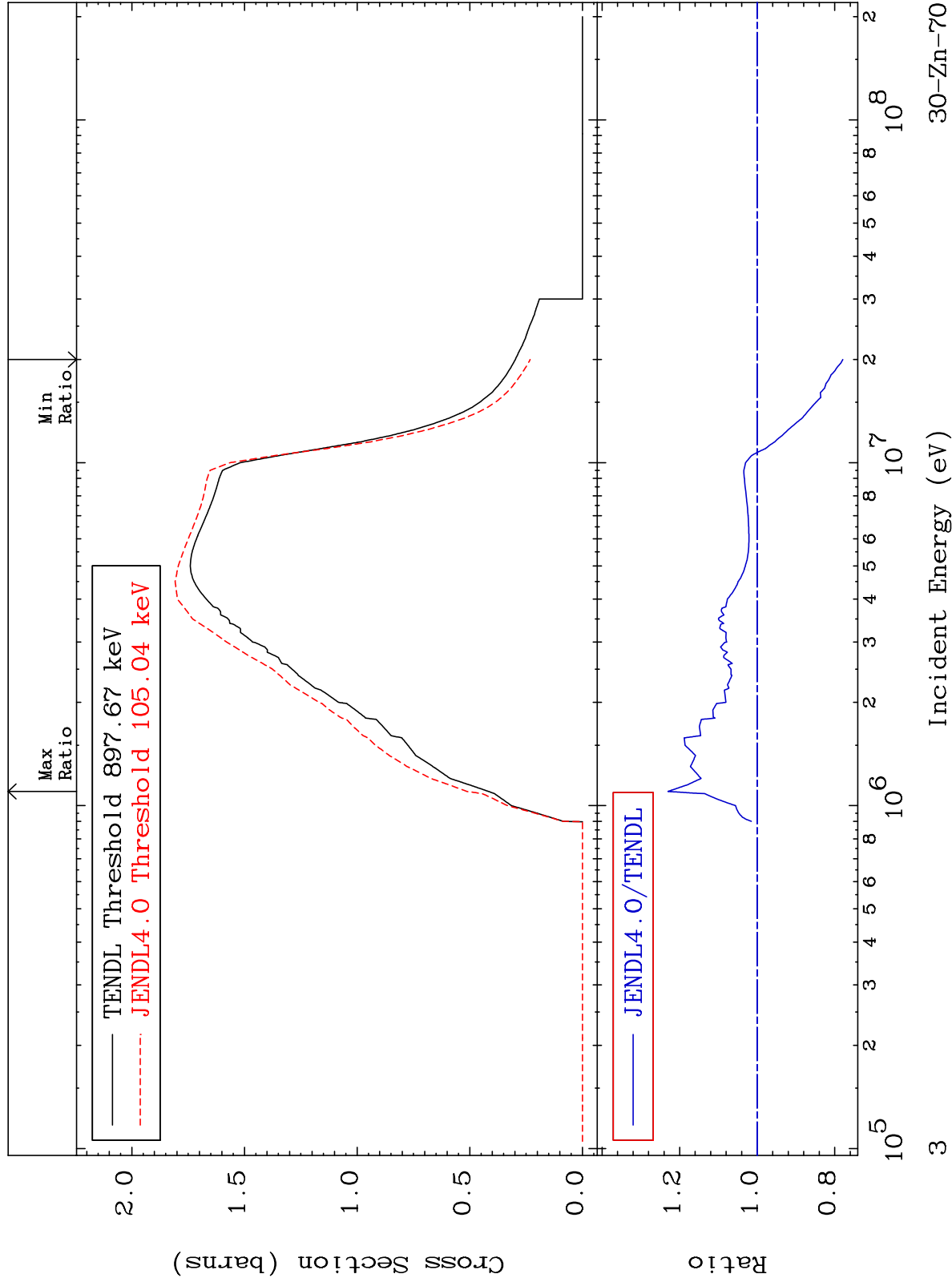
MAT 3043

Inelastic

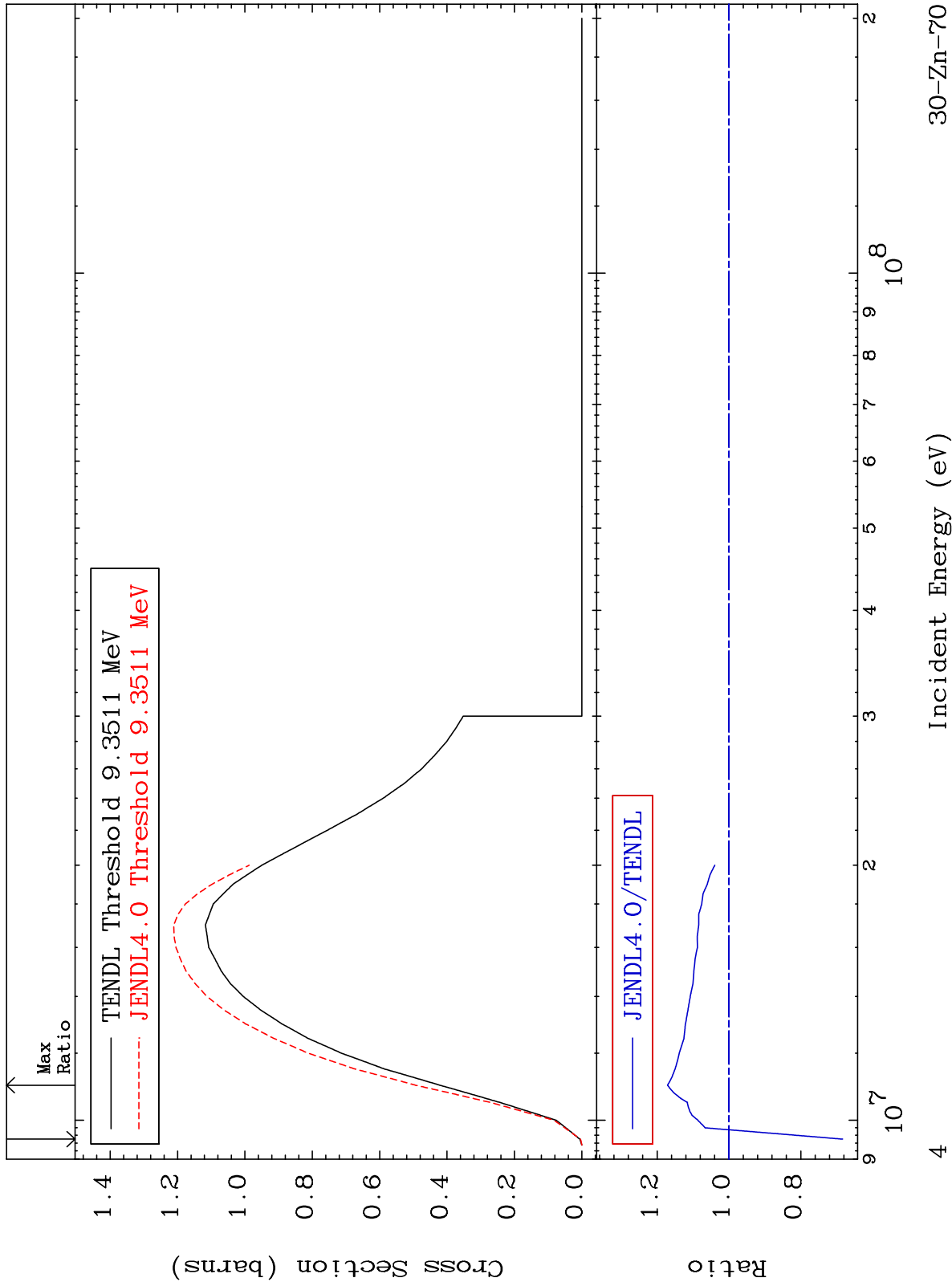
30-Zn-70

Cross Section

-22.09 To 22.99 %



MAT 3043 (n,2n) 30-Zn-70
Cross Section -31.67 To 17.09 %



30-Zn-70

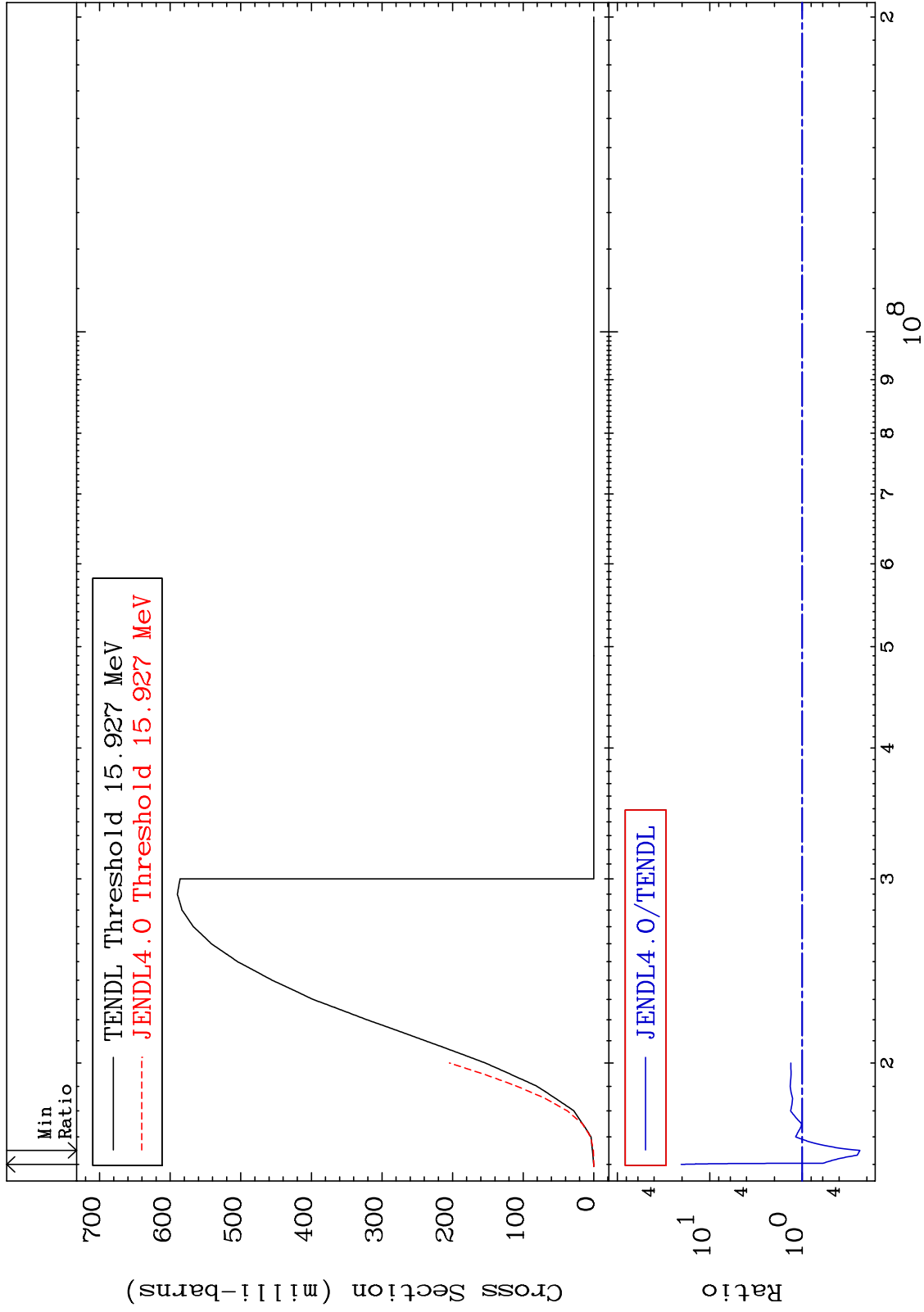
MAT 3043

(n,3n)

30-Zn-70

Cross Section

-76.23 To 1937. %



Incident Energy (eV)

30-Zn-70

5

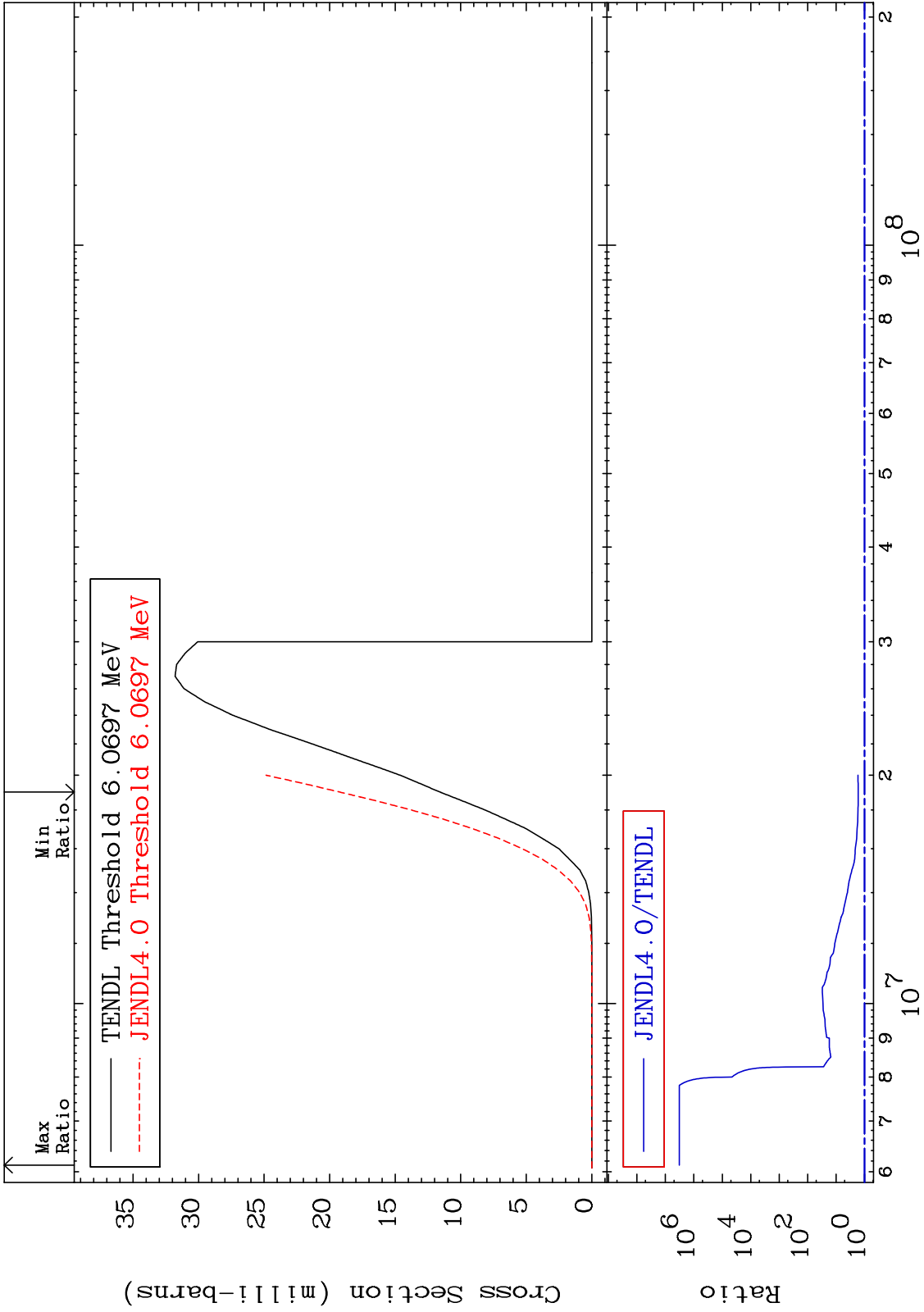
MAT 3043

(n,n') α

30-Zn-70

Cross Section

65.85 To 9999. %



30-Zn-70

Incident Energy (eV)

6

MAT 3043

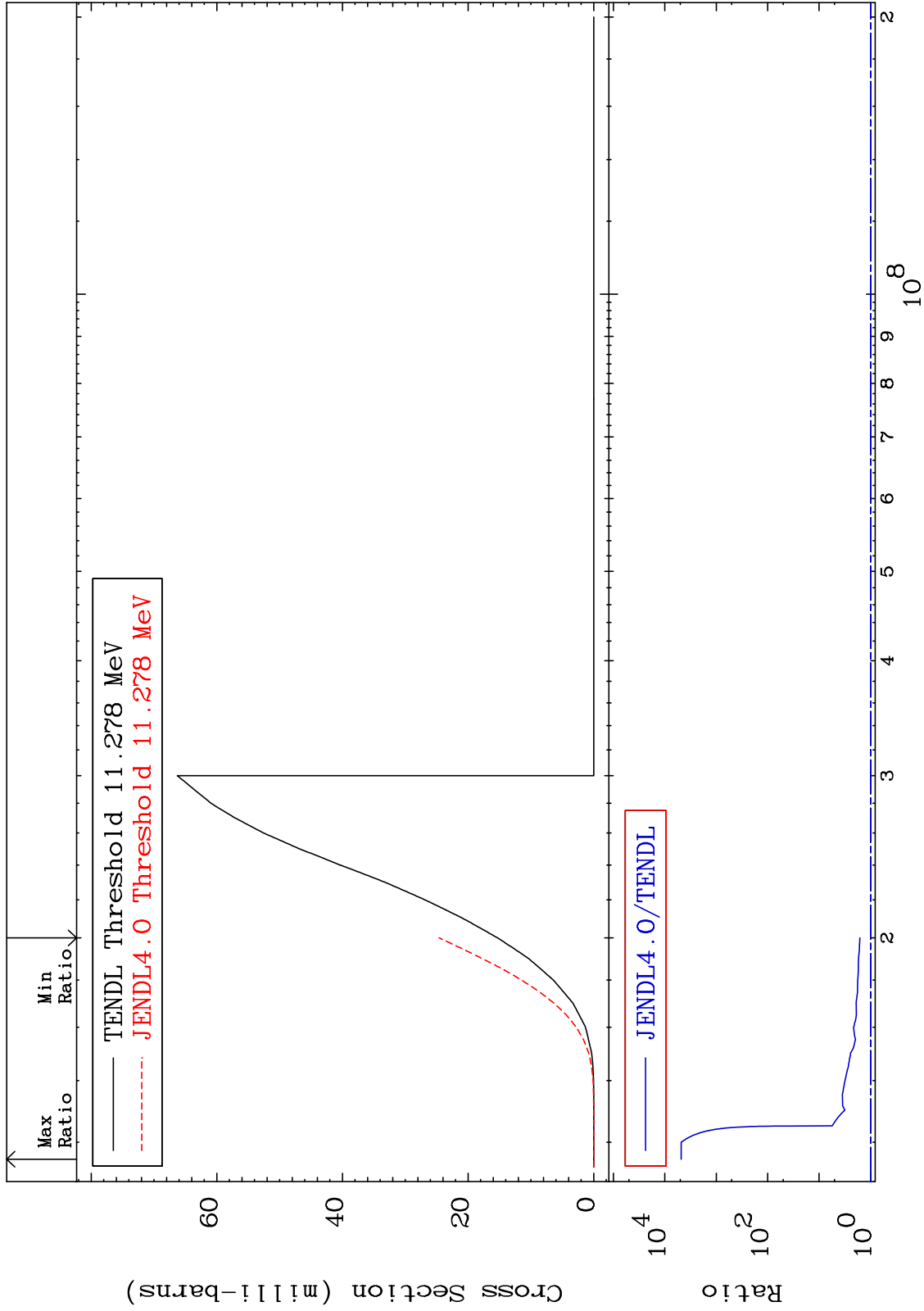
(n,n') p

30-Zn-70

Cross Section

60.80

To 9999. %



Incident Energy (eV)

30-Zn-70

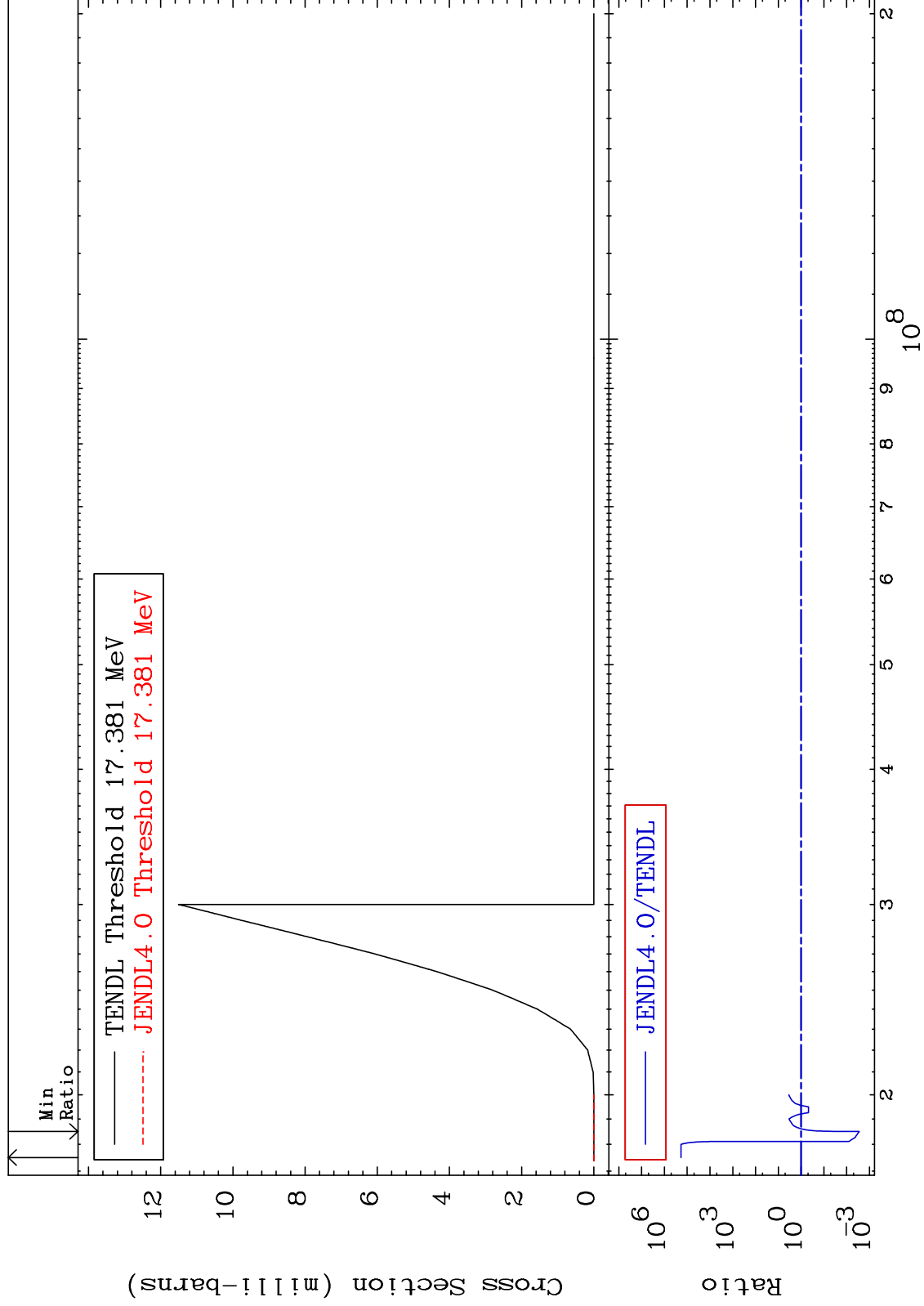
MAT 3043

(n,n') d

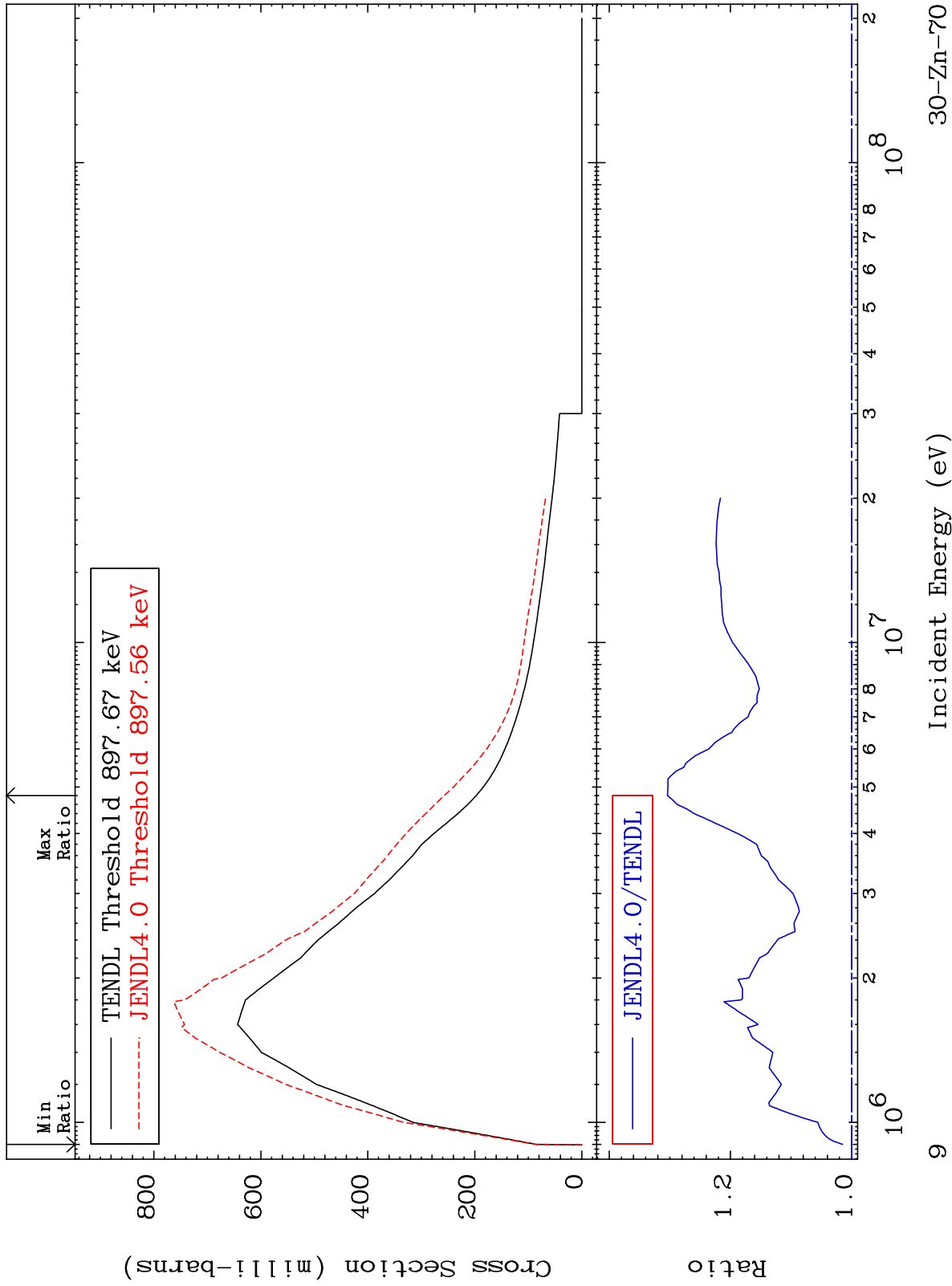
30-Zn-70

Cross Section

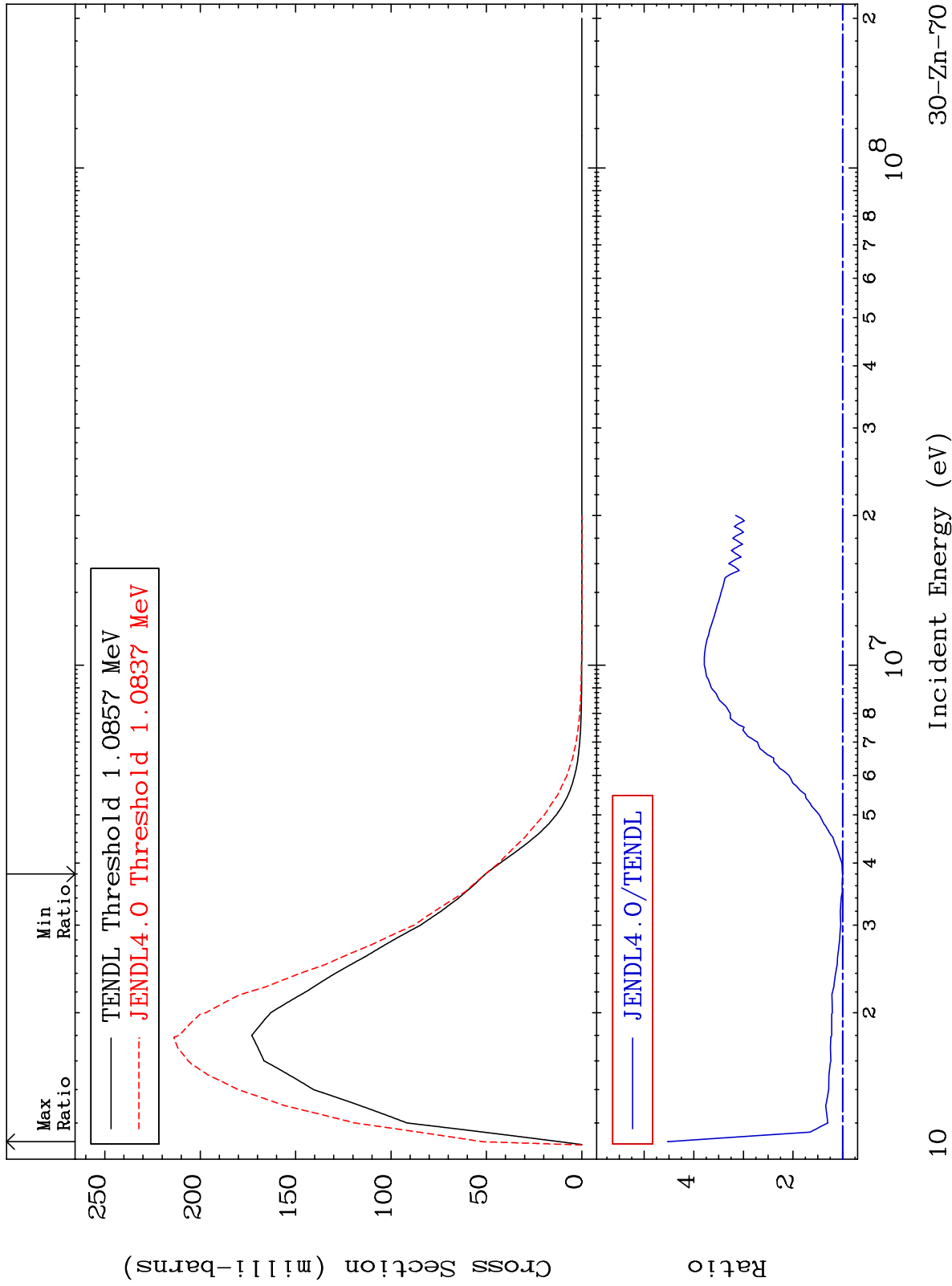
-99.72 To 9999. %



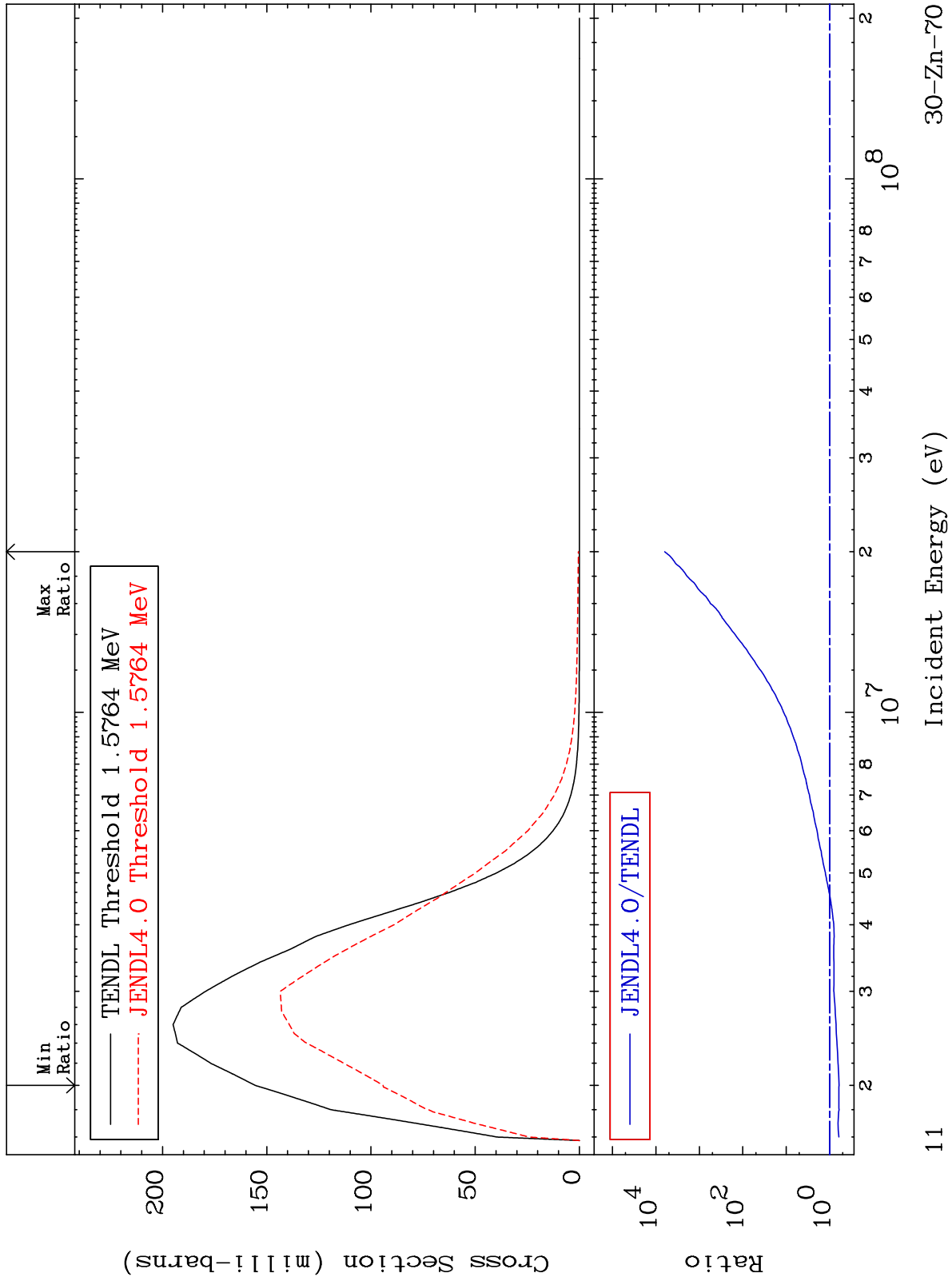
MAT 3043 MT= 51 (n,n') Level Cross Section 30-Zn-70
1.479 To 30.39 %



MAT 3043 MT= 52 (n,n') Level
Cross Section 0.009 To 352.8 % 30-Zn-70



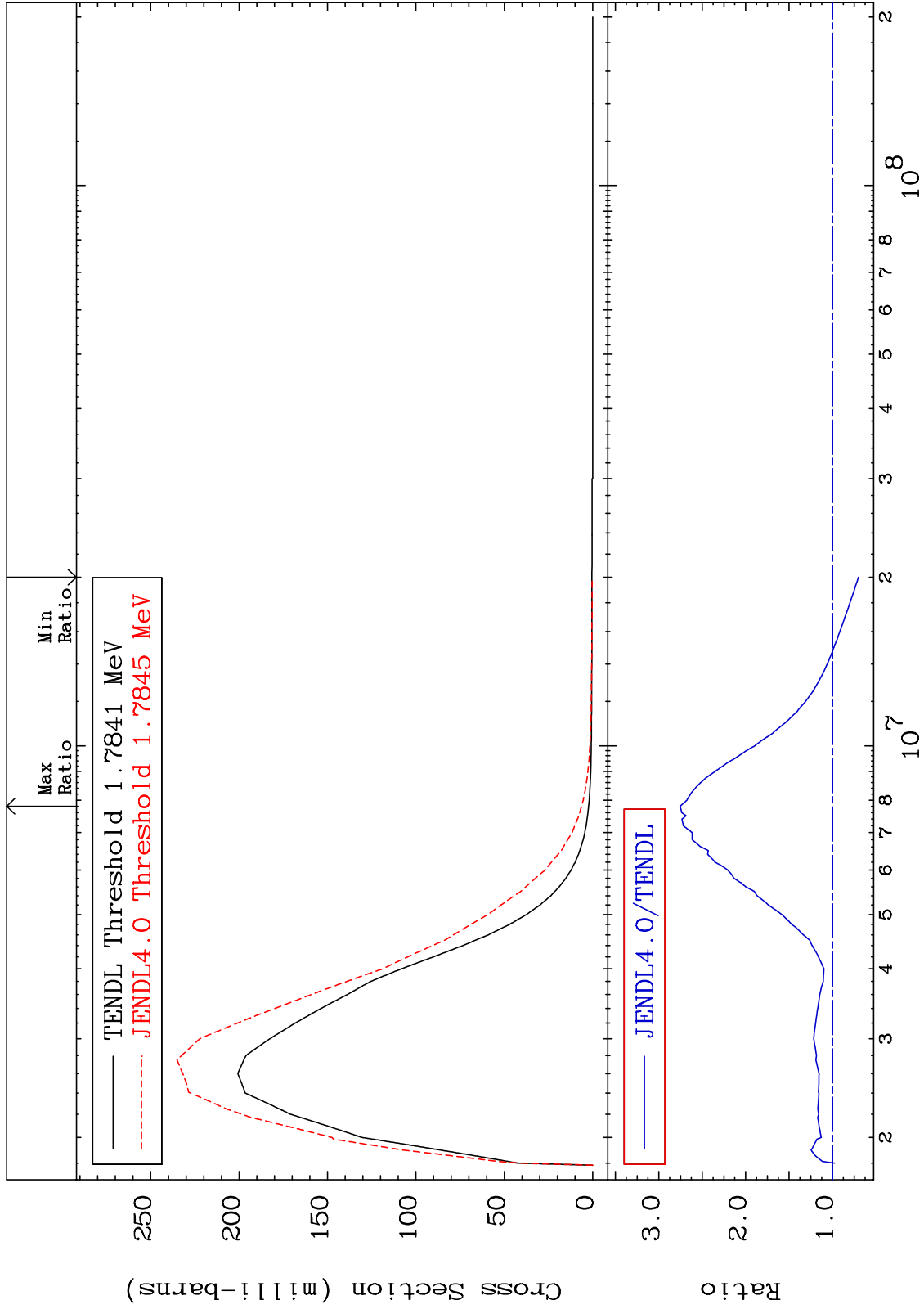
MAT 3043 MT= 53 (n,n') Level 30-Zn-70
 Cross Section -39.50 To 9999. %



MAT 3043

MT= 54 (n,n') Level
Cross Section

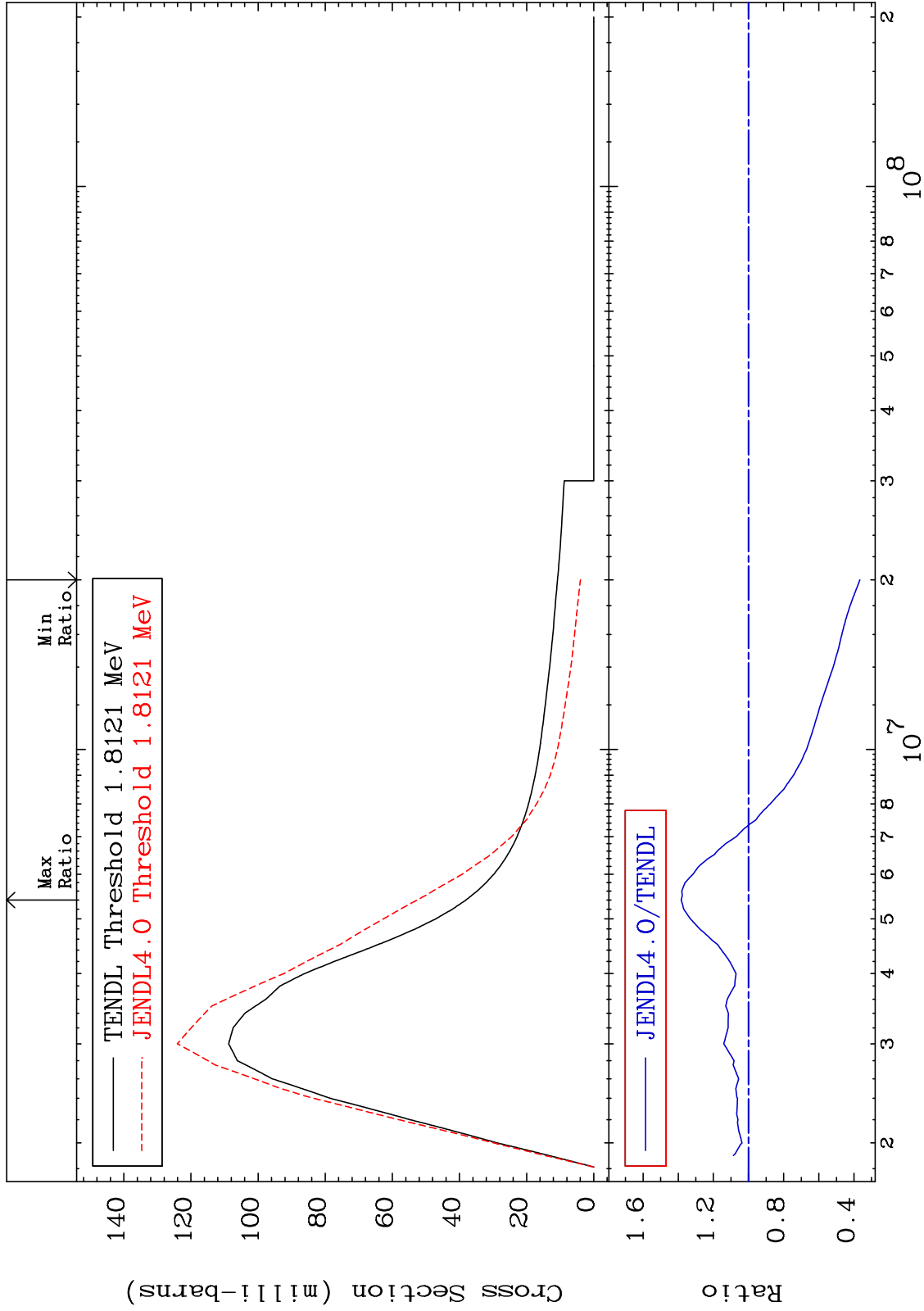
30-Zn-70
-29.84 To 175.6 %



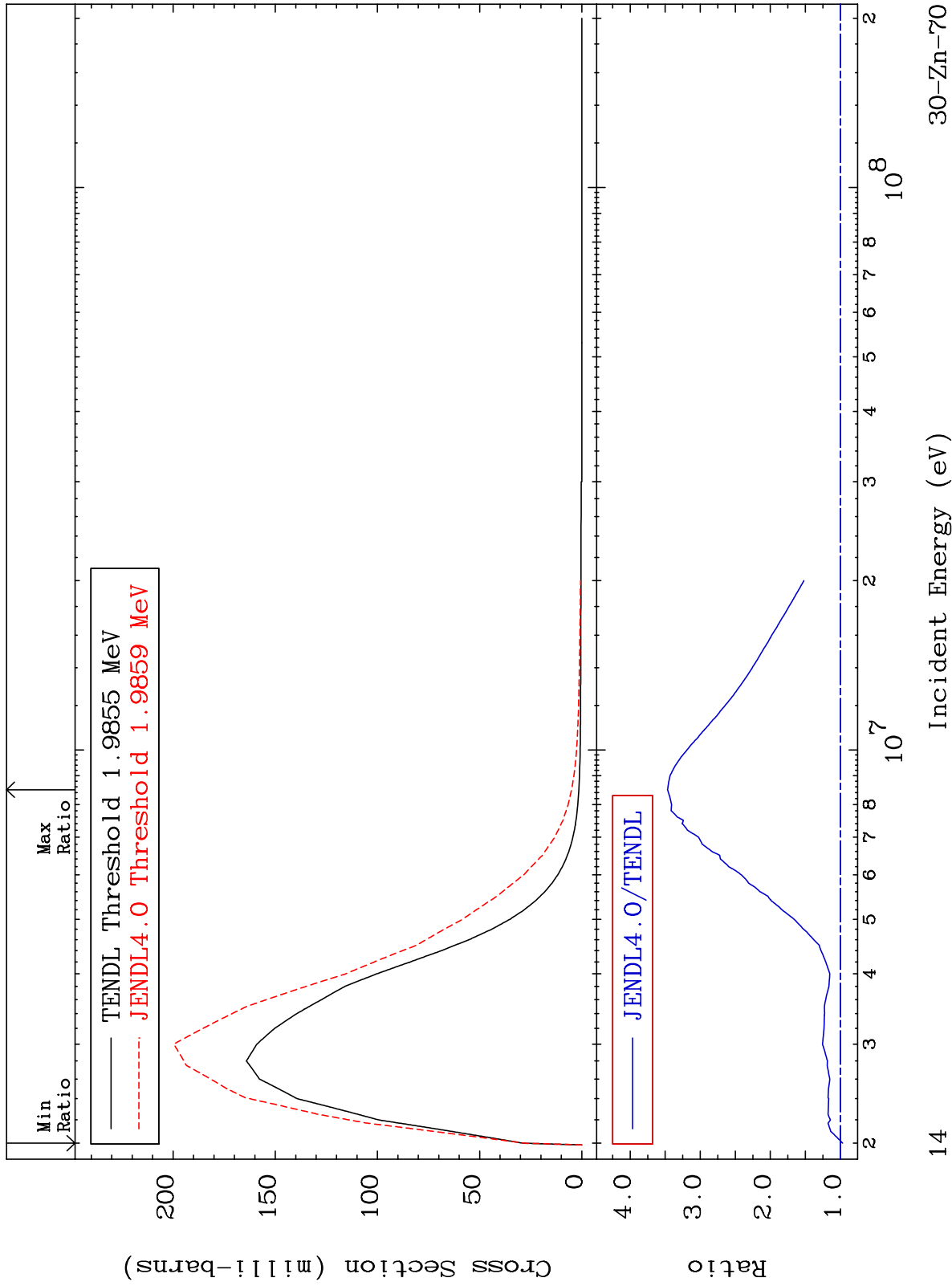
MAT 3043

MT= 55 (n,n') Level
Cross Section

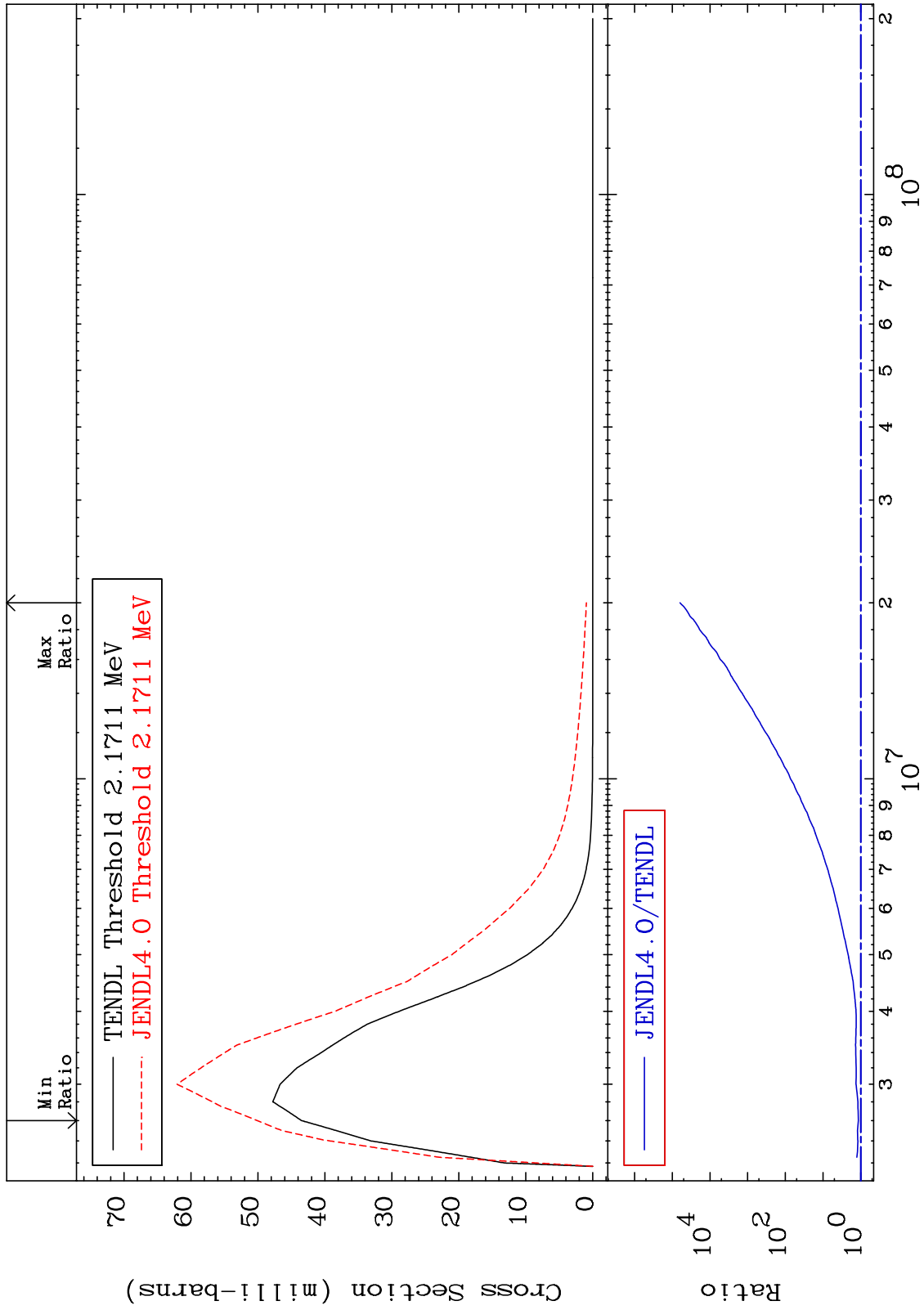
30-Zn-70
-63.39 To 38.29 %



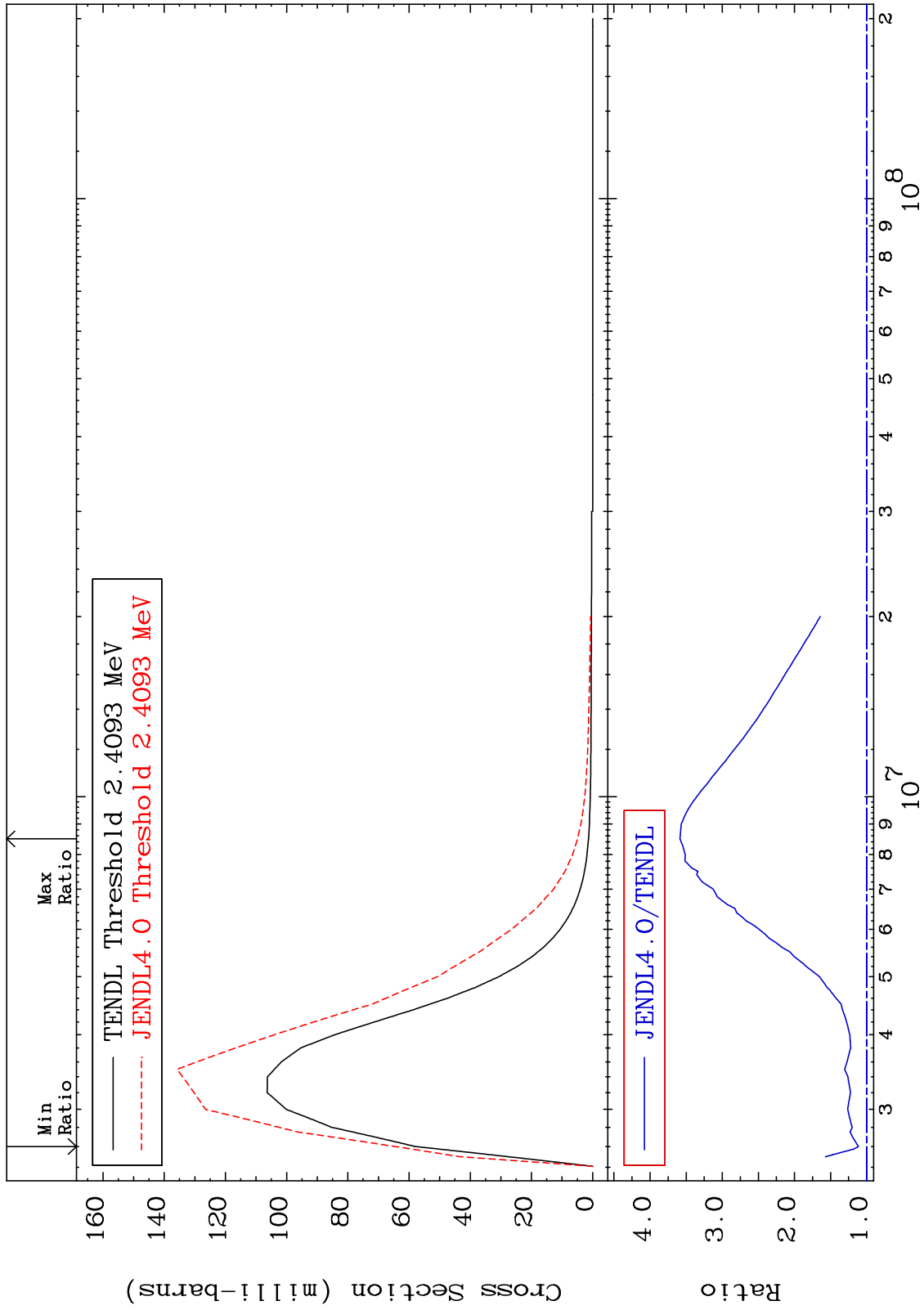
MAT 3043 MT= 56 (n,n') Level
 Cross Section 30-Zn-70
 -3.157 To 246.7 %



MAT 3043 MT= 57 (n,n') Level Cross Section 30-Zn-70
 15.16 To 9999. %



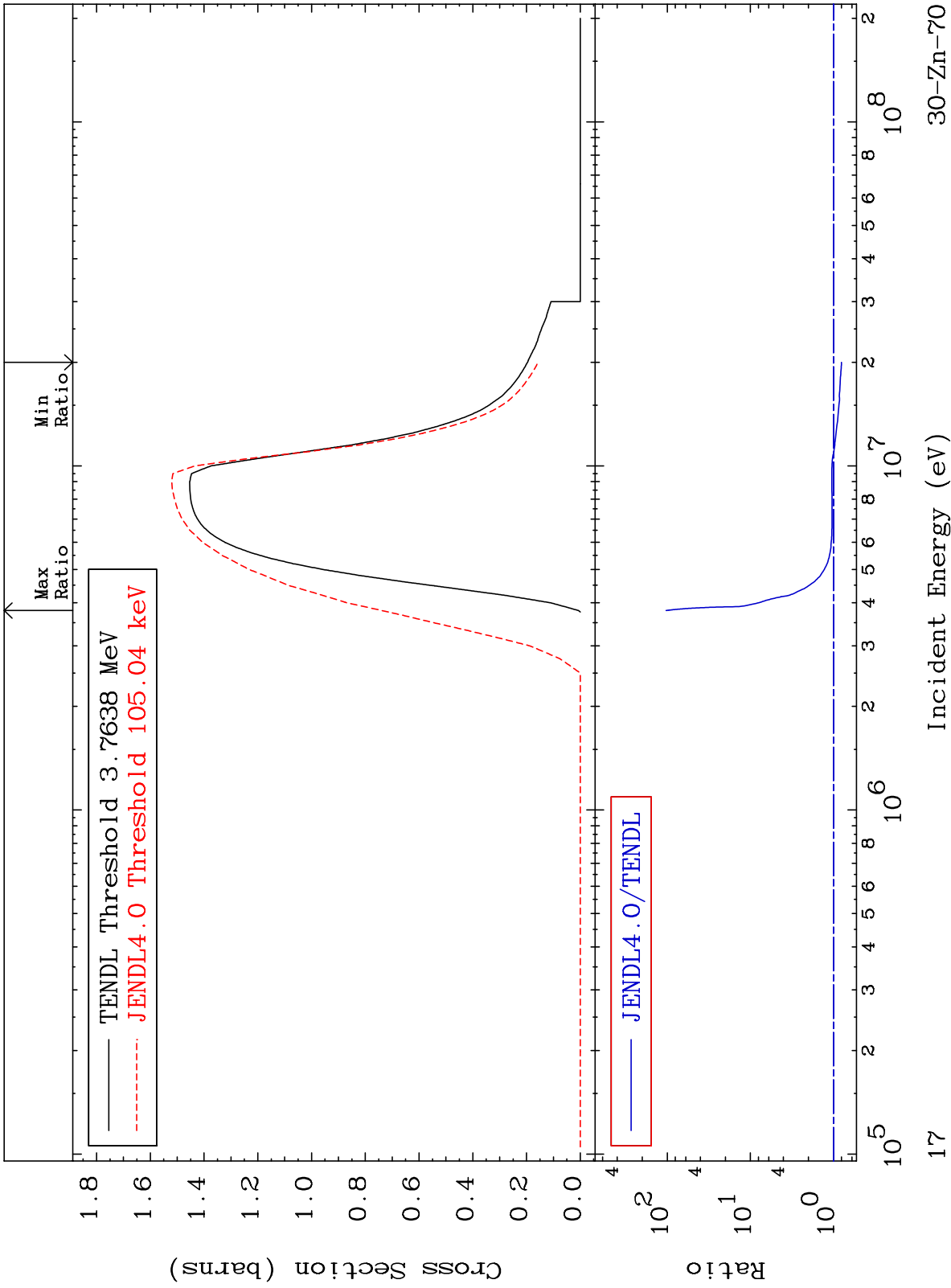
MAT 3043 MT= 58 (n,n') Level Cross Section 30-Zn-70
 11.47 To 258.5 %



MAT 3043

(n, n') Continuum
Cross Section

30-Zn-70
-19.95 To 9999. %



— TENDL Threshold 3.7638 MeV
- - - JENDL4.0 Threshold 105.04 keV

— JENDL4.0/TENDL

30-Zn-70

Incident Energy (eV)

17

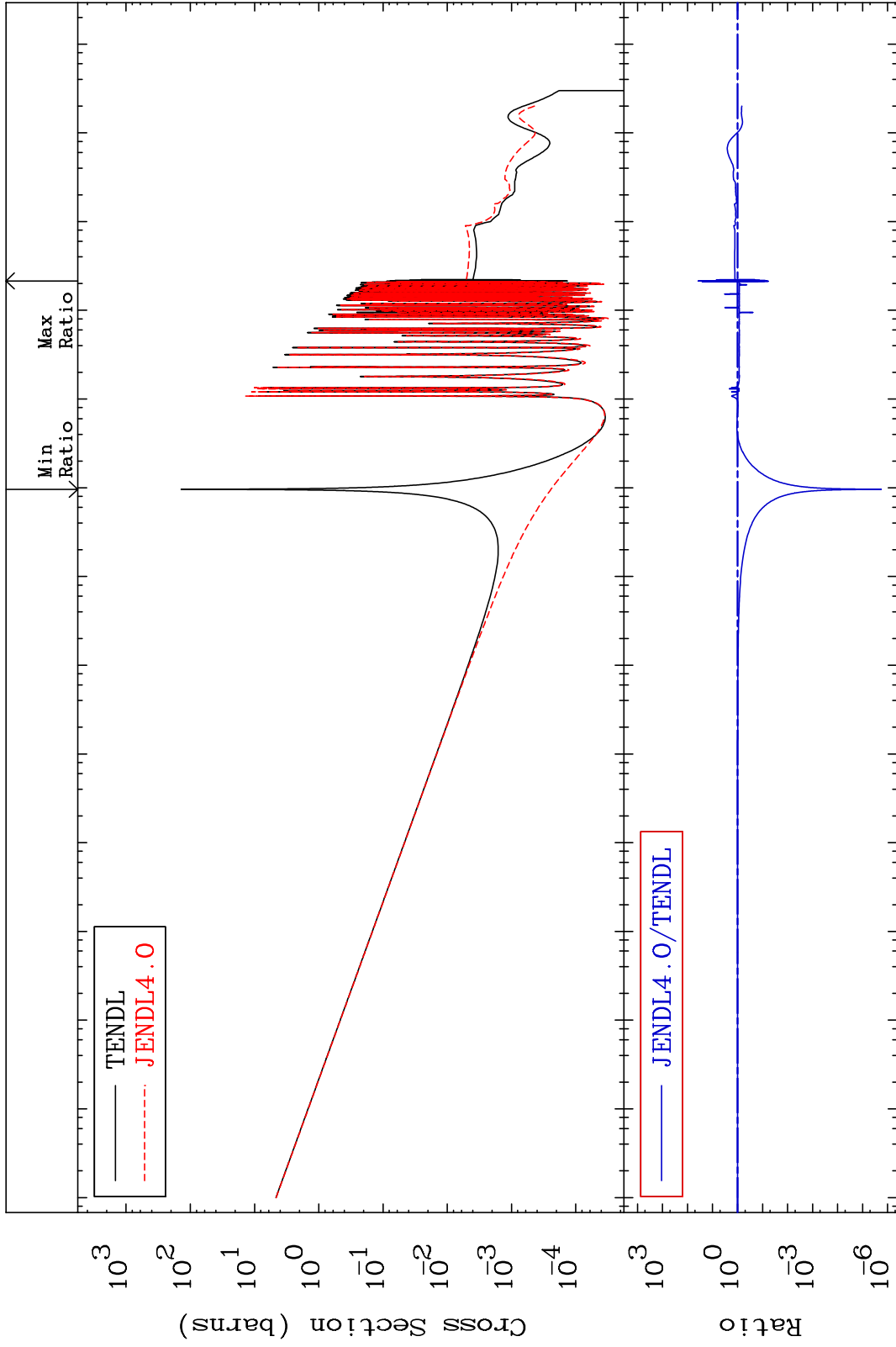
MAT 3043

(n, γ)

30-Zn-70

Cross Section

-100.0 To 3658. %



18

Incident Energy (eV)

30-Zn-70

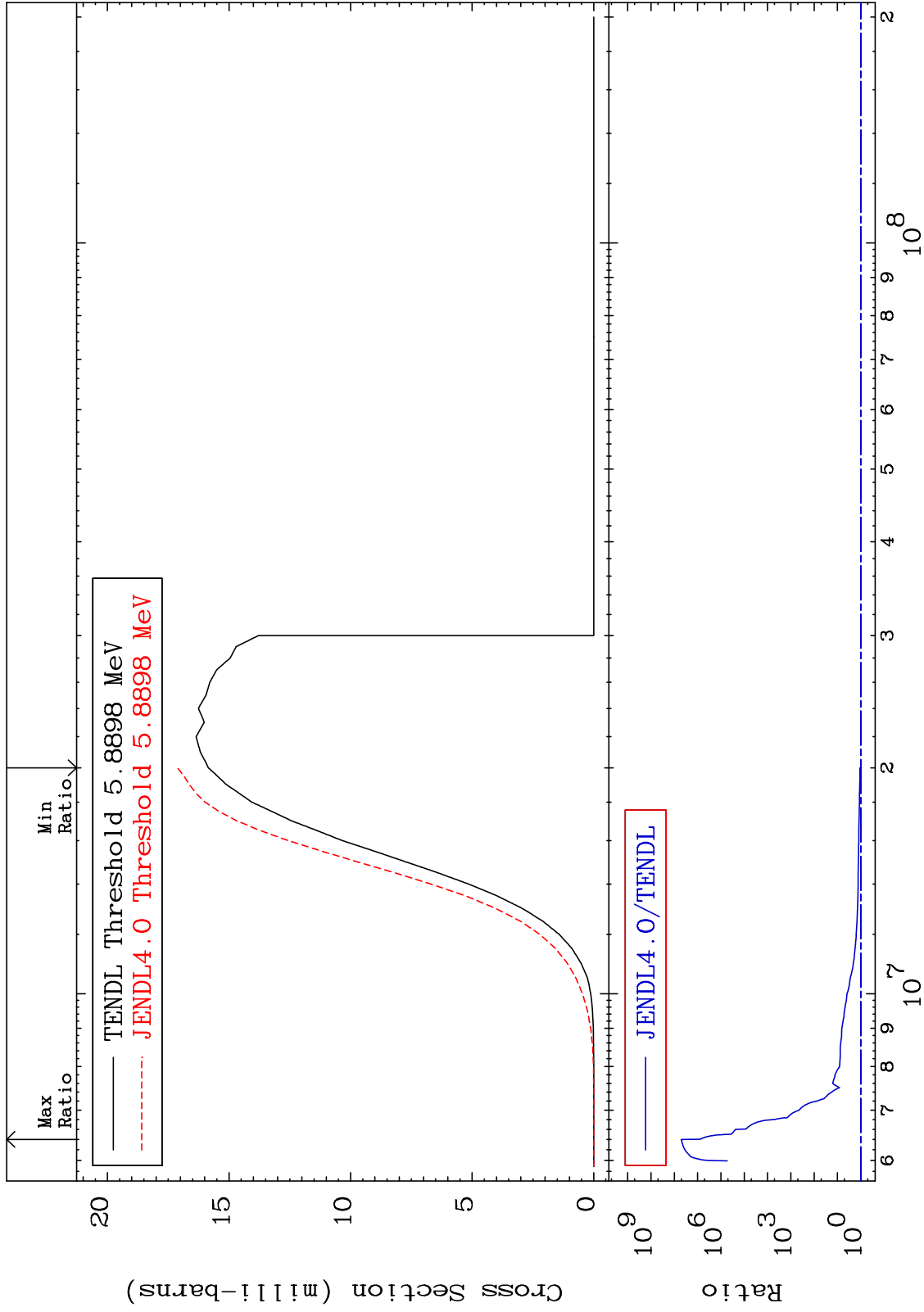
MAT 3043

(n,p)

30-Zn-70

Cross Section

8.067 To 9999. %



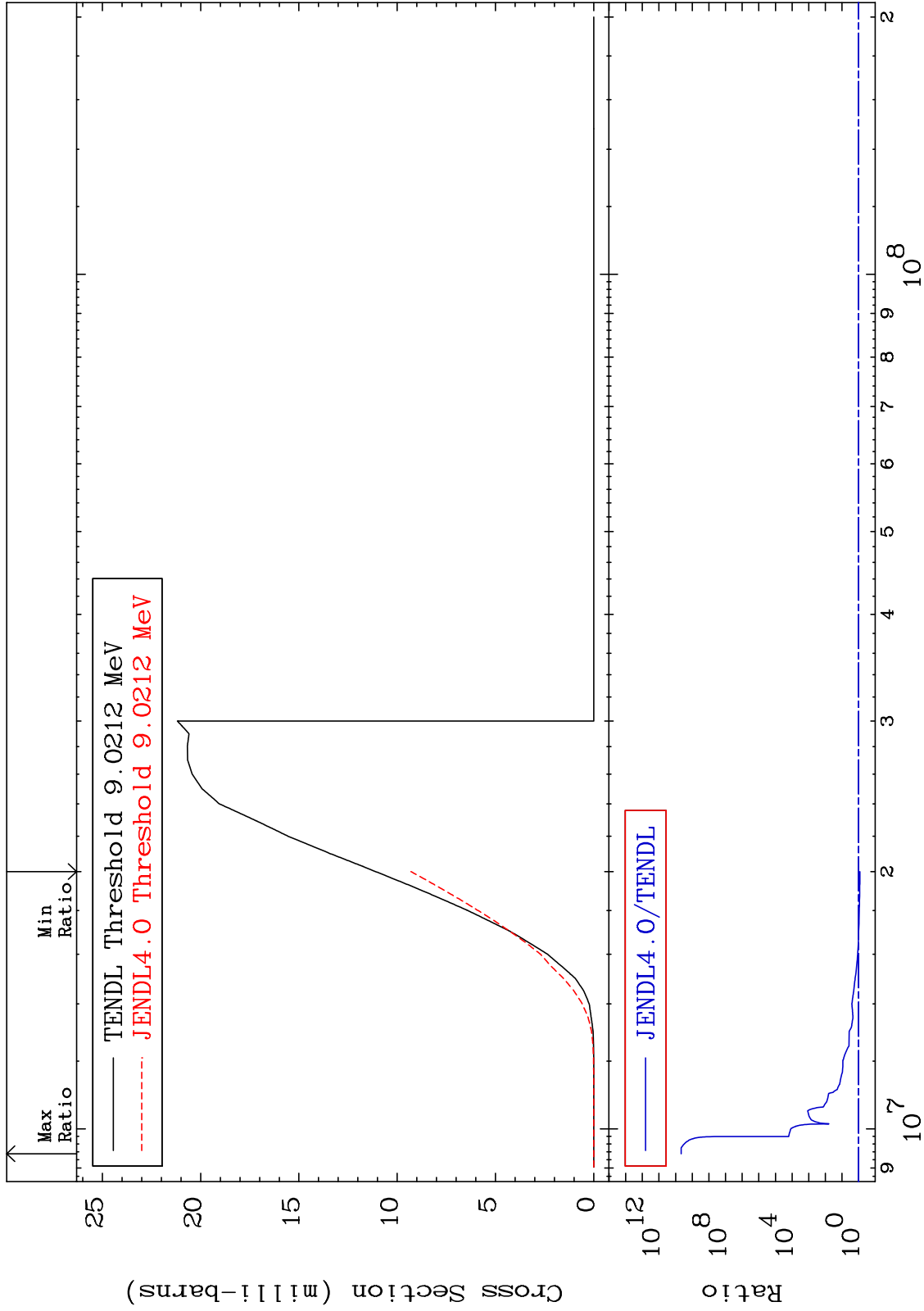
MAT 3043

(n, d)

30-Zn-70

Cross Section

-16.21 To 9999. %



Incident Energy (eV)

30-Zn-70

20

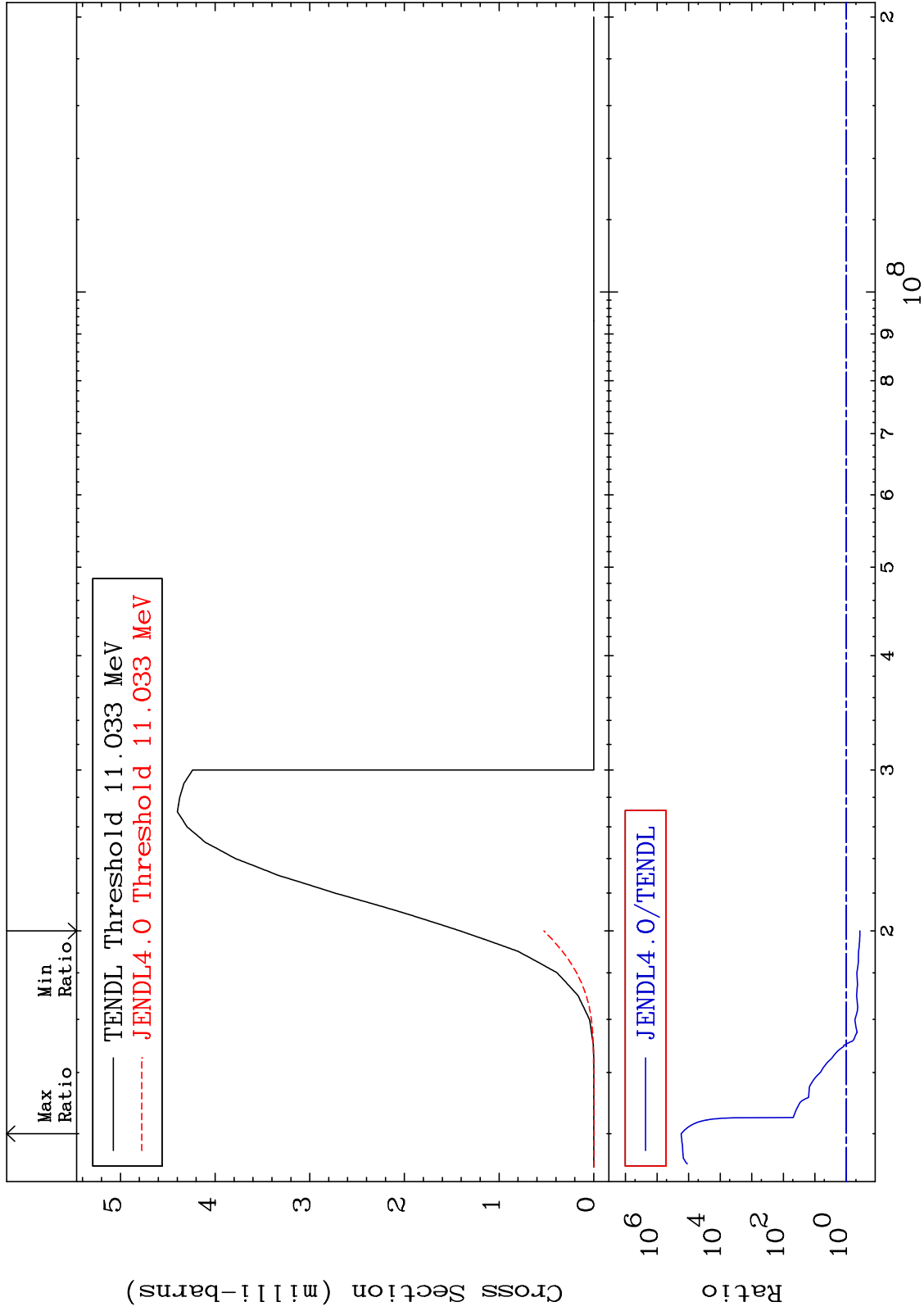
MAT 3043

(n, t)

30-Zn-70

Cross Section

-62.69 To 9999. %



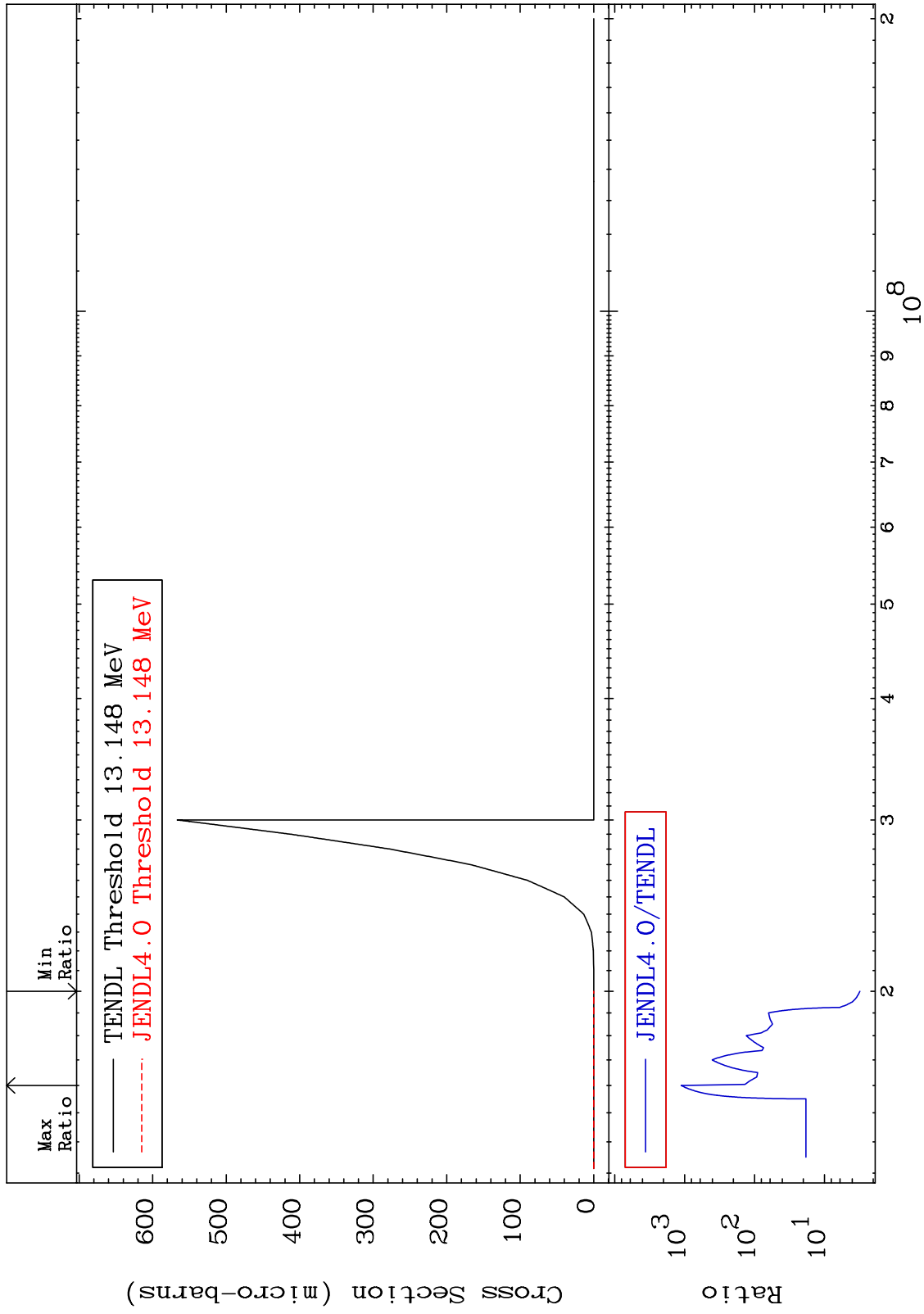
MAT 3043

(n, He-3)

30-Zn-70

Cross Section

210.2 To 9999. %



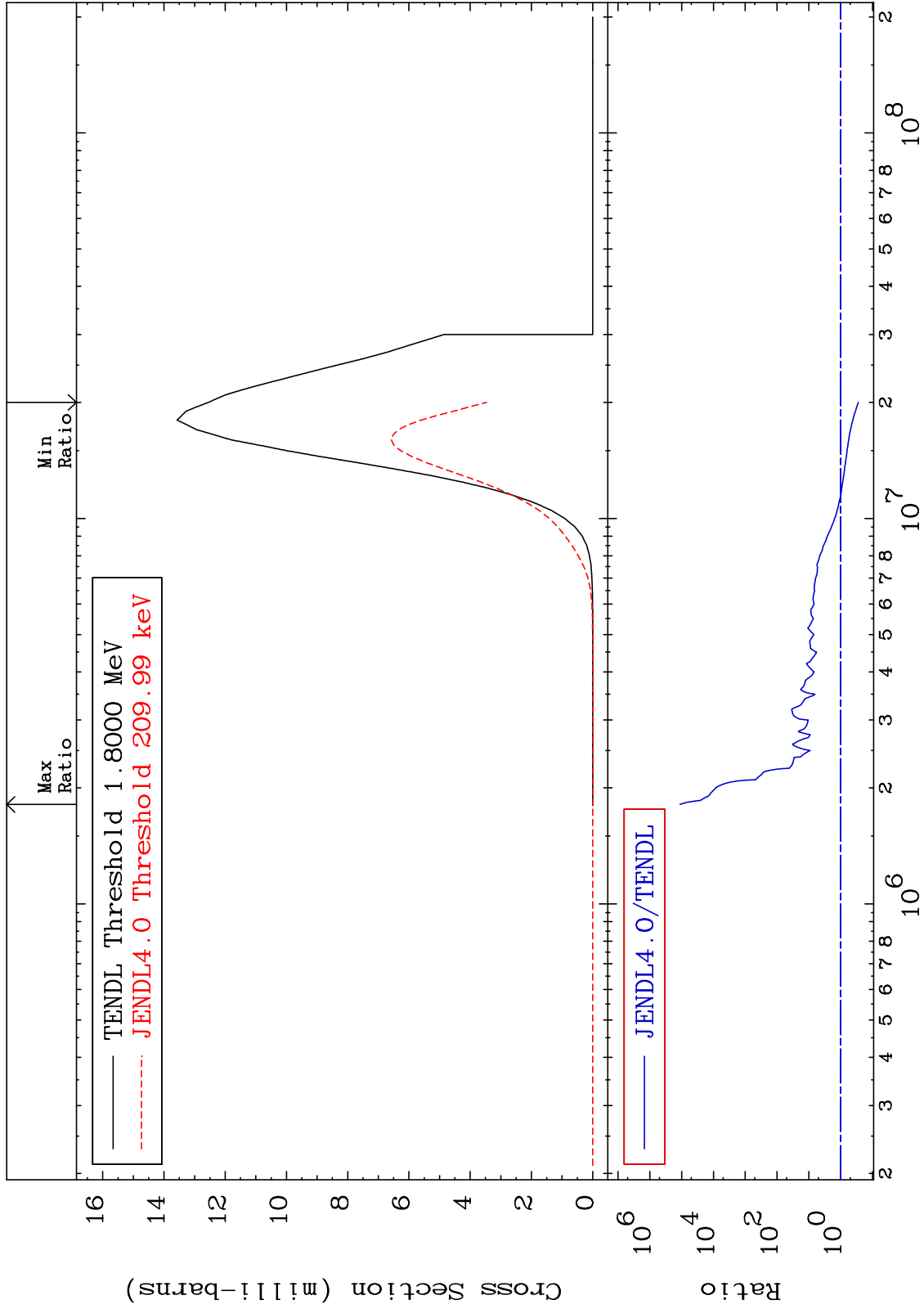
MAT 3043

(n, α)

30-Zn-70

Cross Section

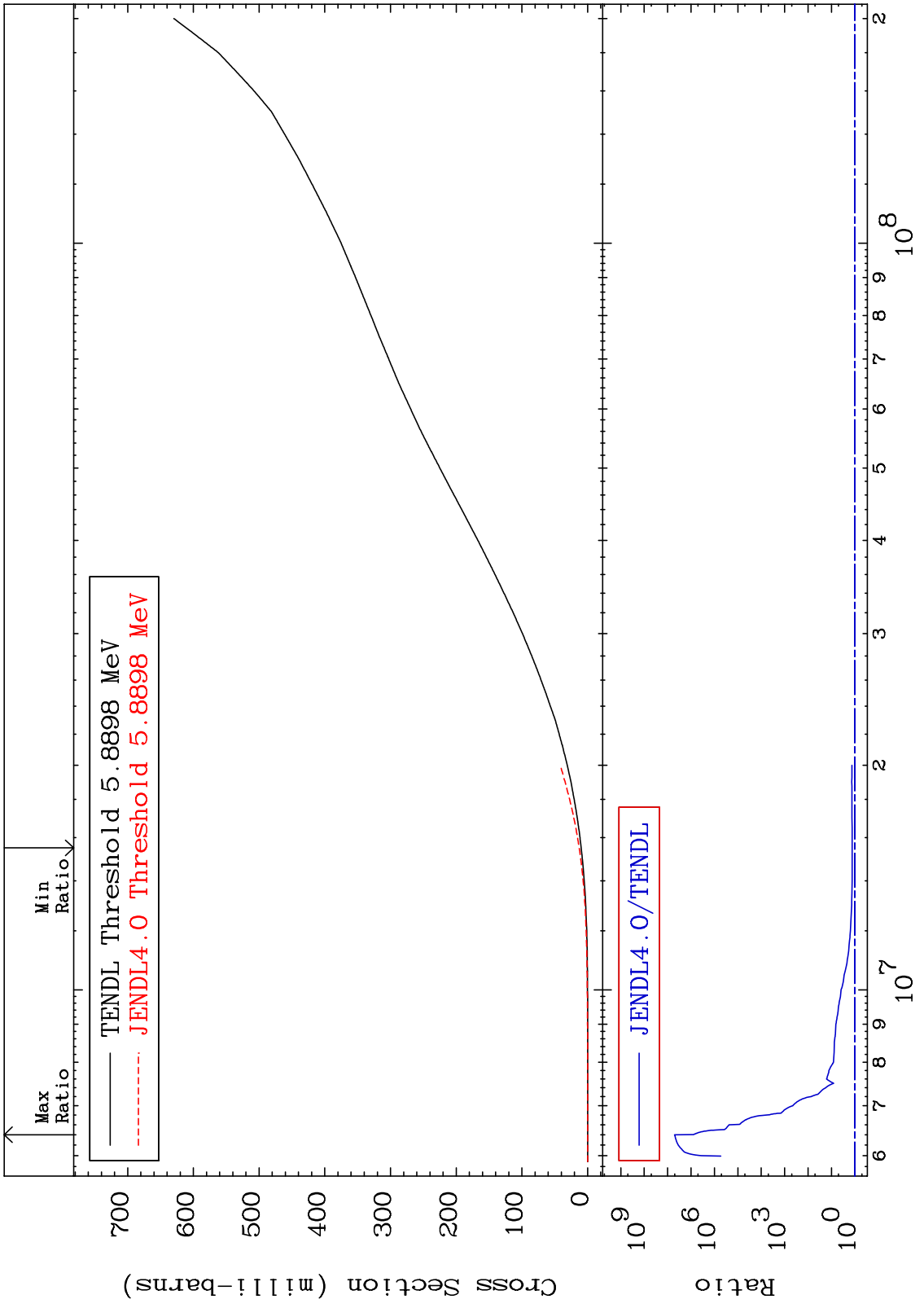
-72.38 To 9999. %



MAT 3043

Hydrogen Production
Cross Section

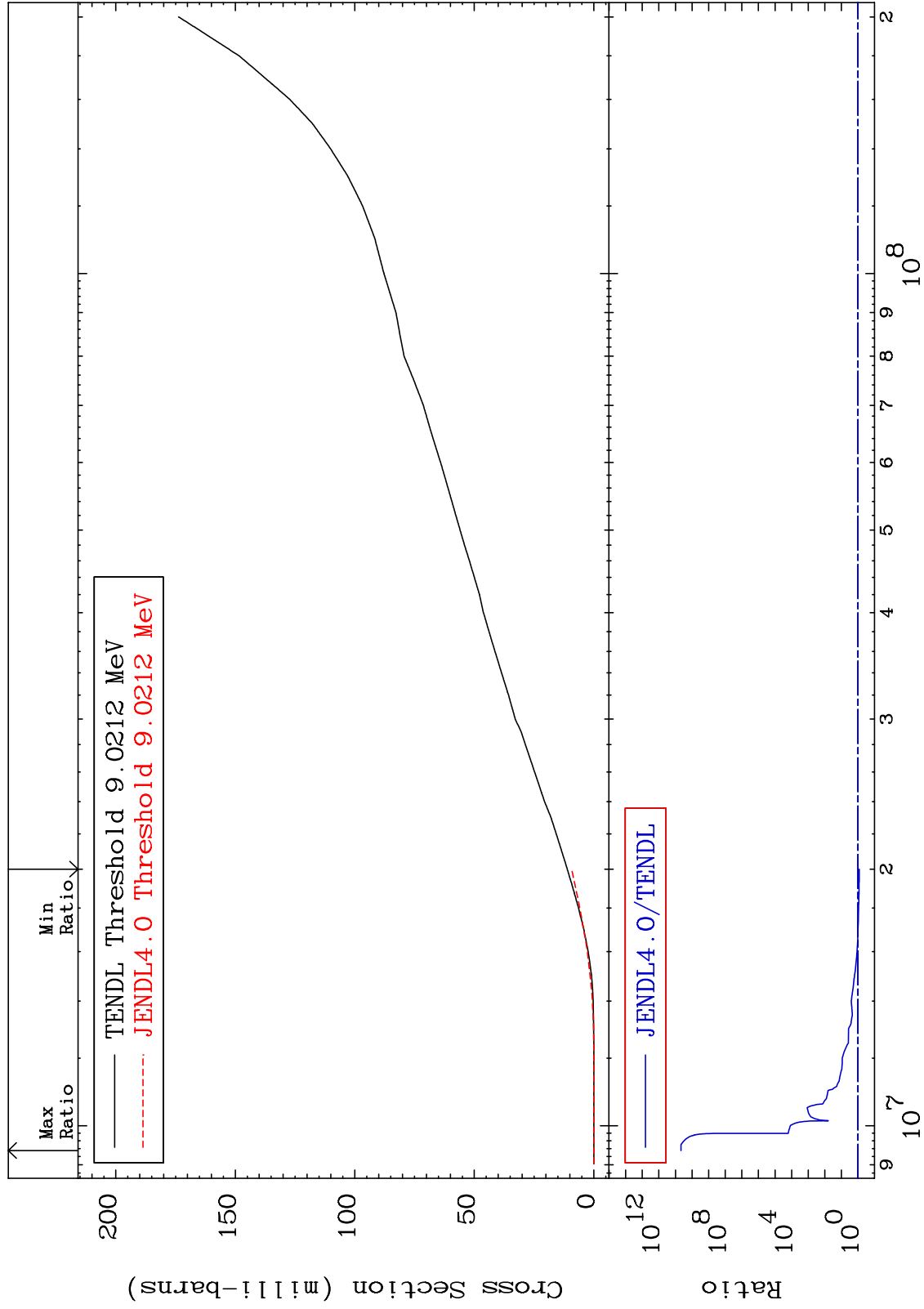
30-Zn-70
29.96 To 9999. %



MAT 3043

Deuterium Production
Cross Section

30-Zn-70
-16.19 To 9999. %



25

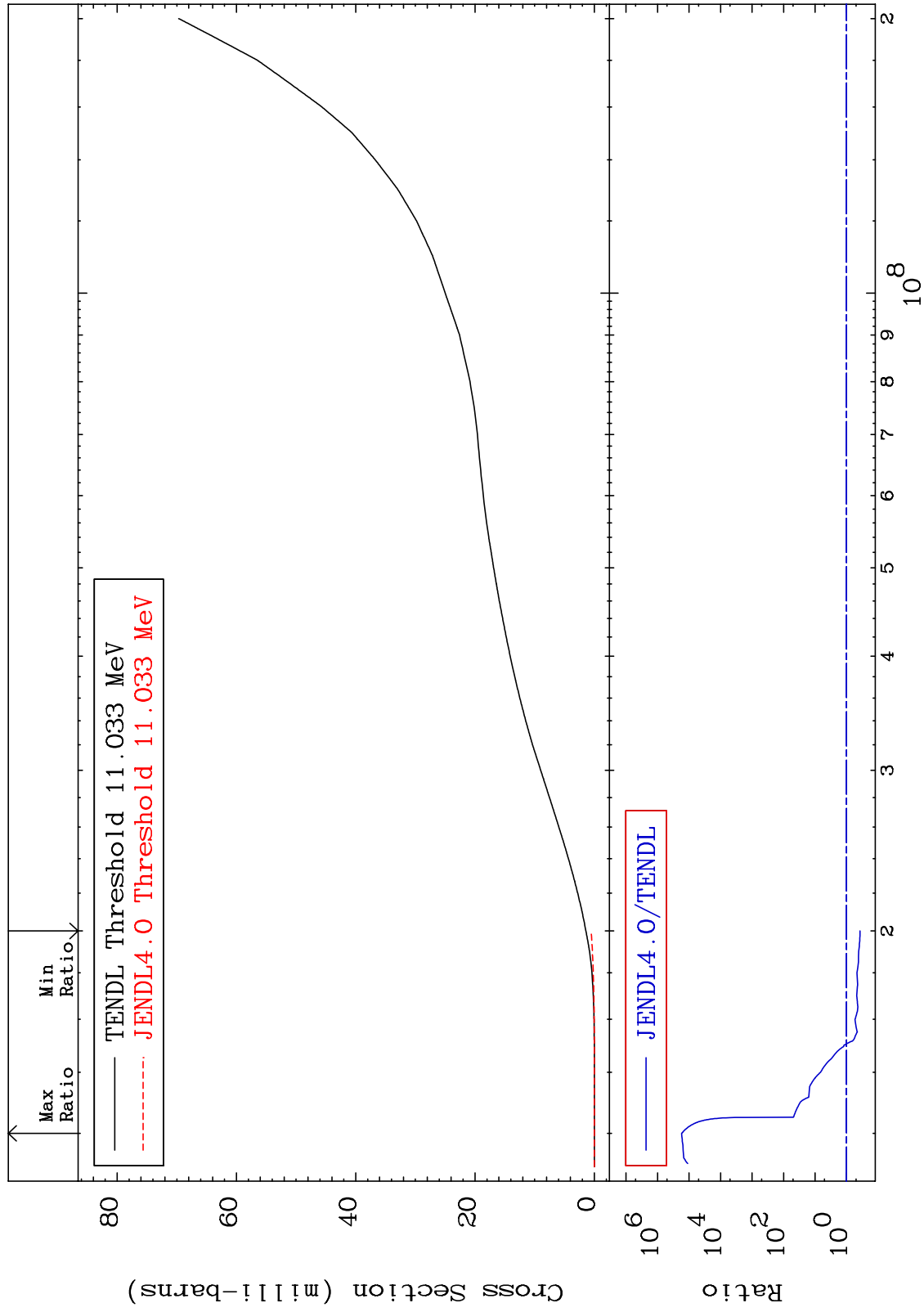
Incident Energy (eV)

30-Zn-70

MAT 3043

Tritium Production
Cross Section

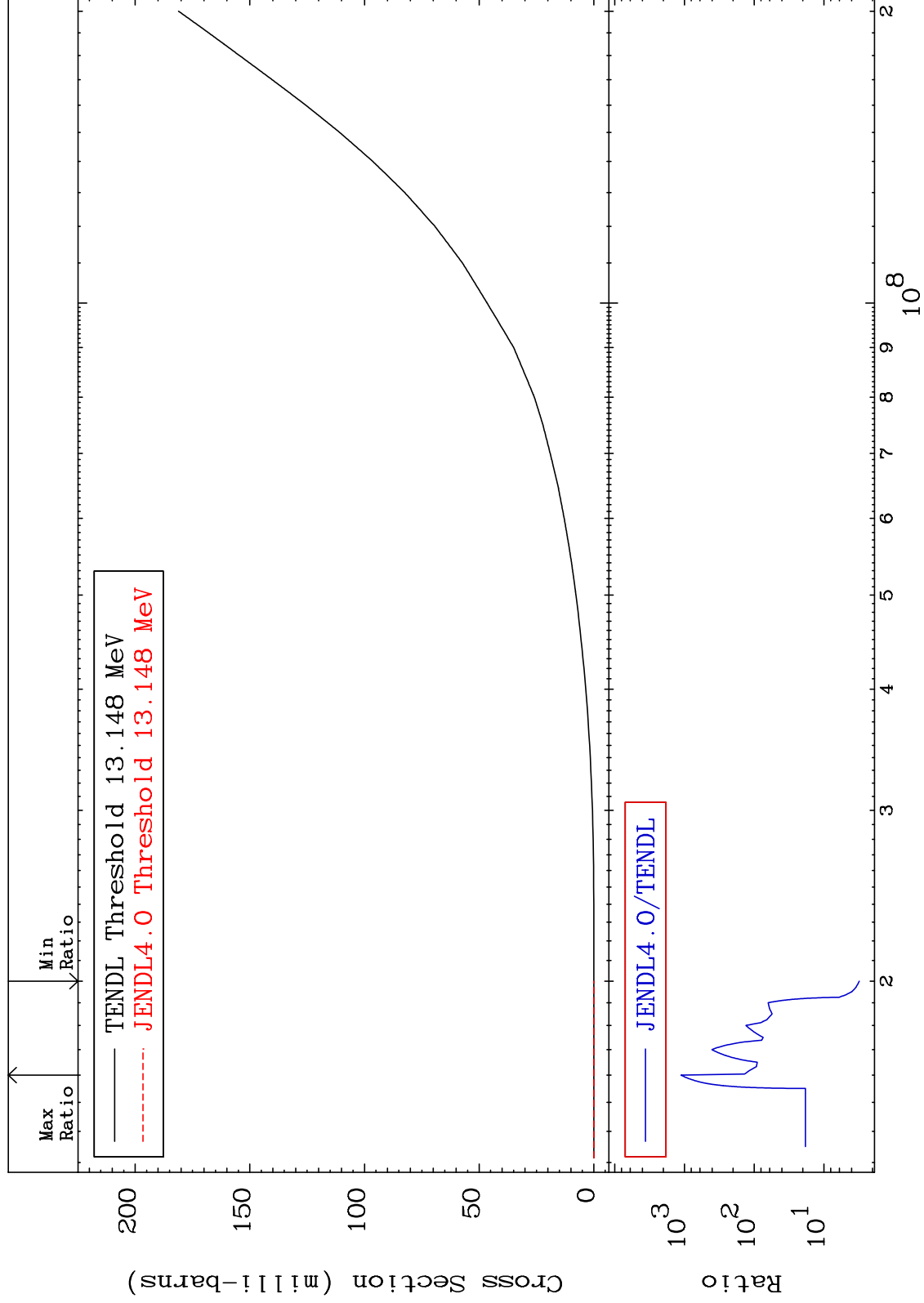
30-Zn-70
-62.69 To 9999. %



MAT 3043

He-3 Production
Cross Section

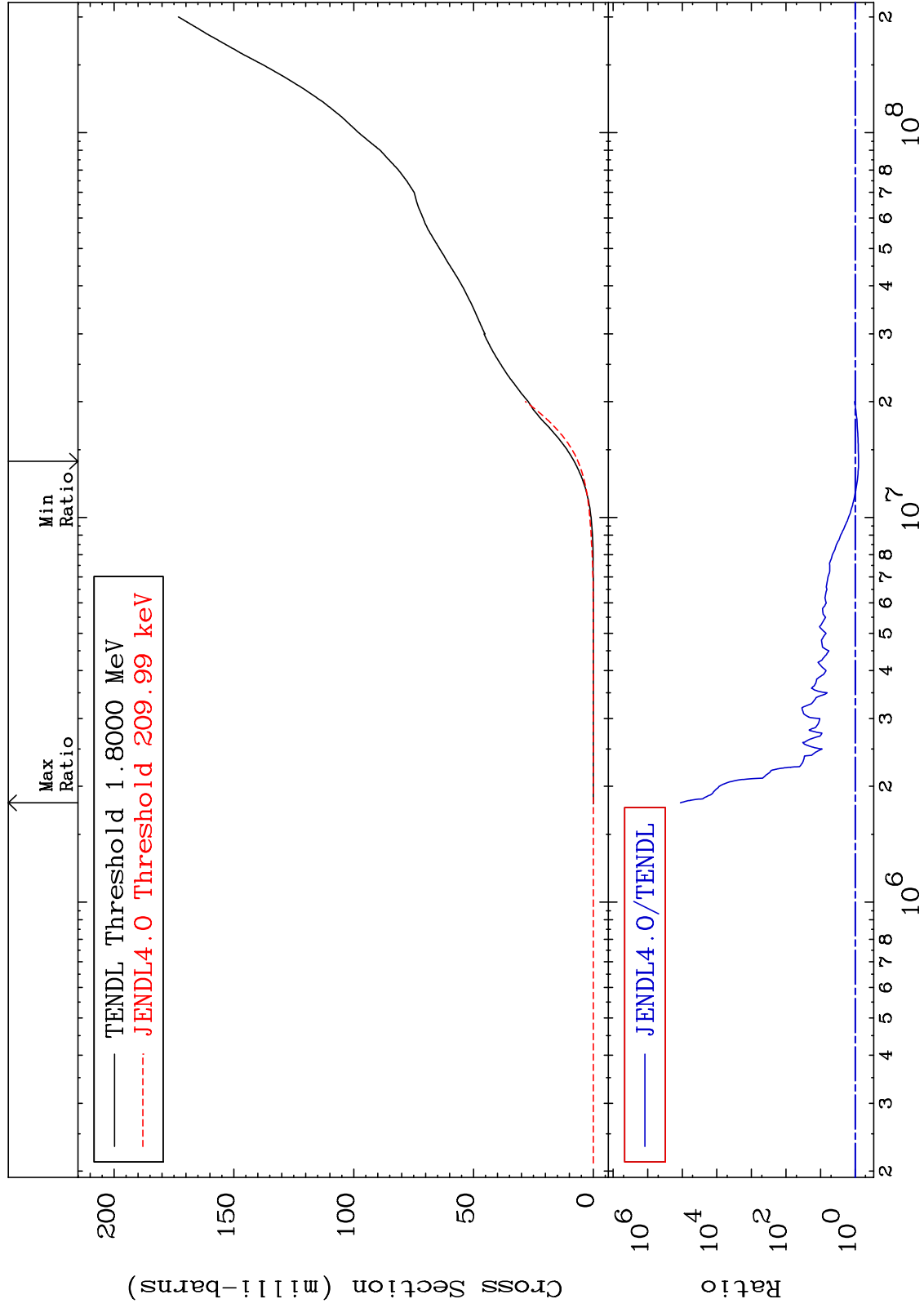
30-Zn-70
210.2 To 9999. %



MAT 3043

He-4 Production
Cross Section

30-Zn-70
-20.20 To 9999. %



Incident Energy (eV)

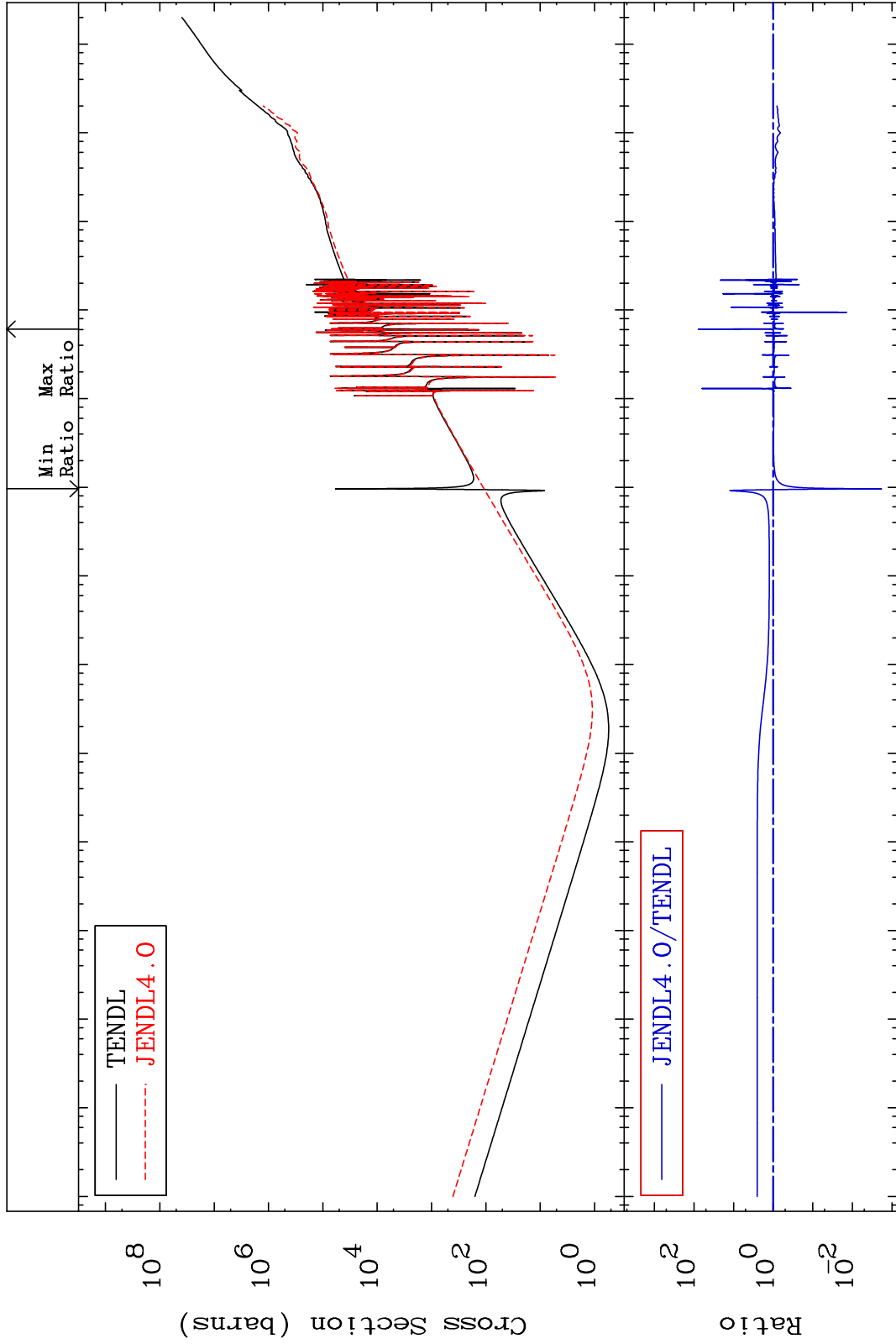
30-Zn-70

MAT 3043

Kerma total (eV-barns)
Cross Section

30-Zn-70

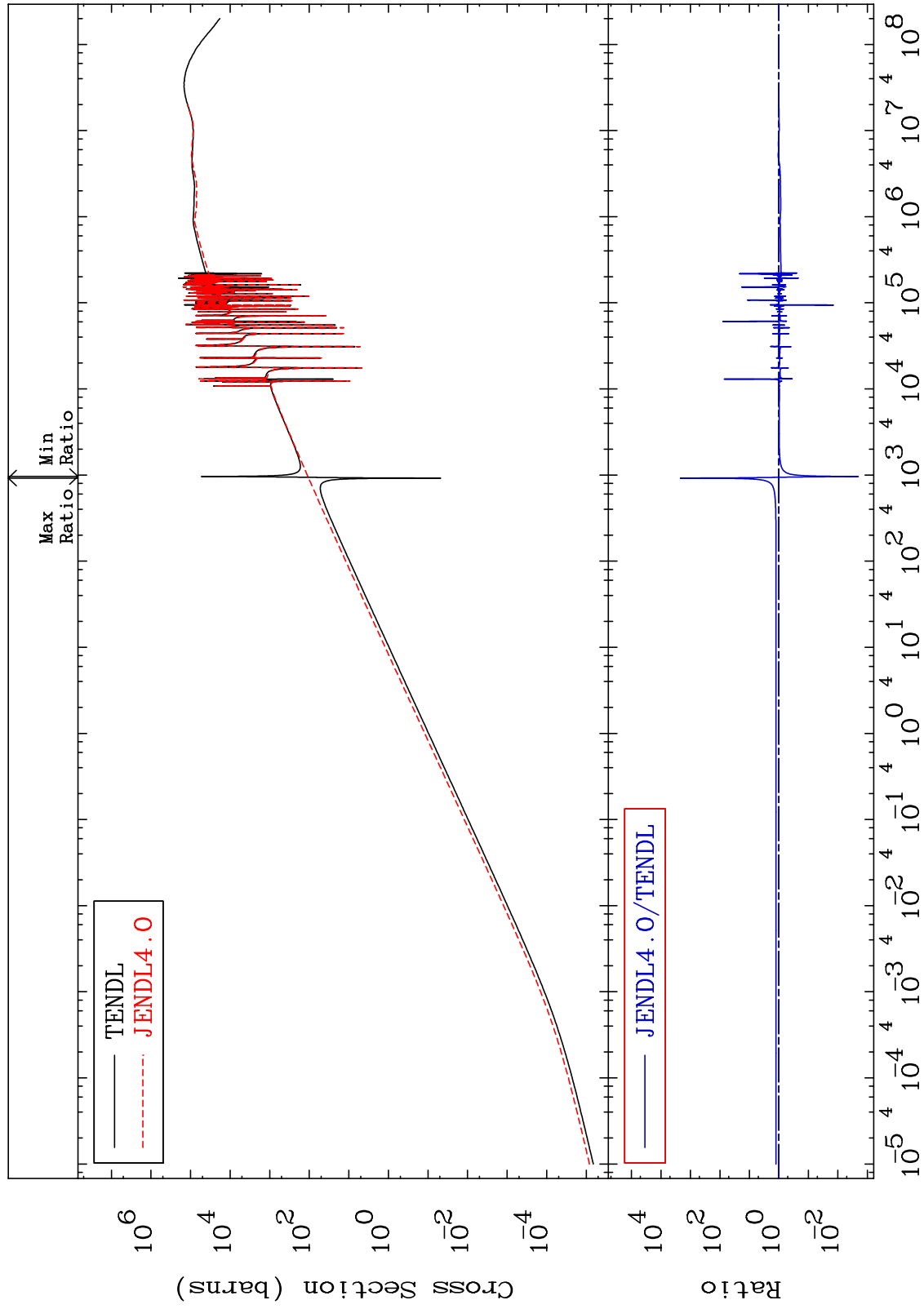
-99.82 To 7670. %



MAT 3043

Kerma elastic
Cross Section

30-Zn-70
-99.80 To 9999. %



30

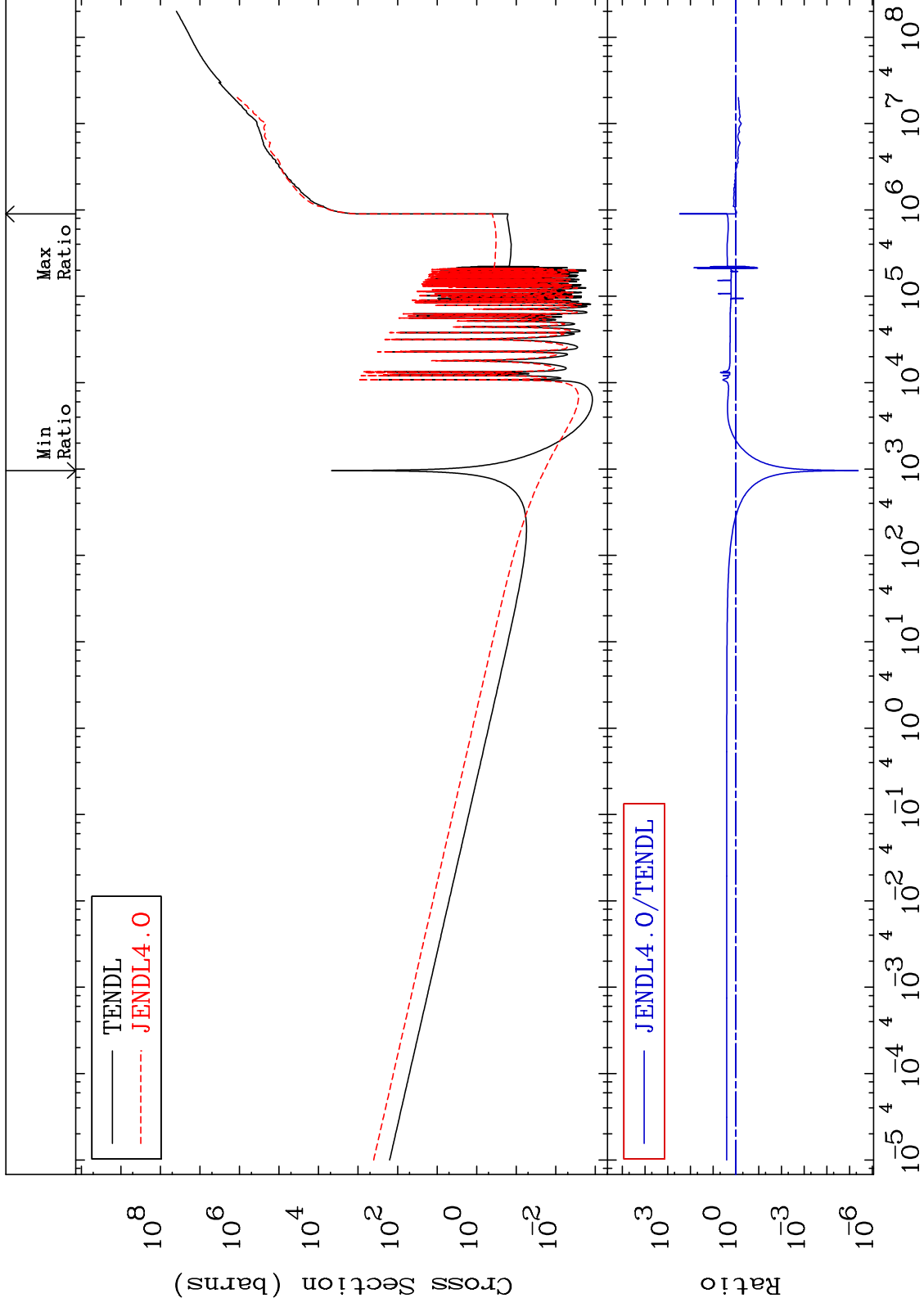
Incident Energy (eV)

30-Zn-70

MAT 3043

Kerma non-elastic (all but mt2)
Cross Section

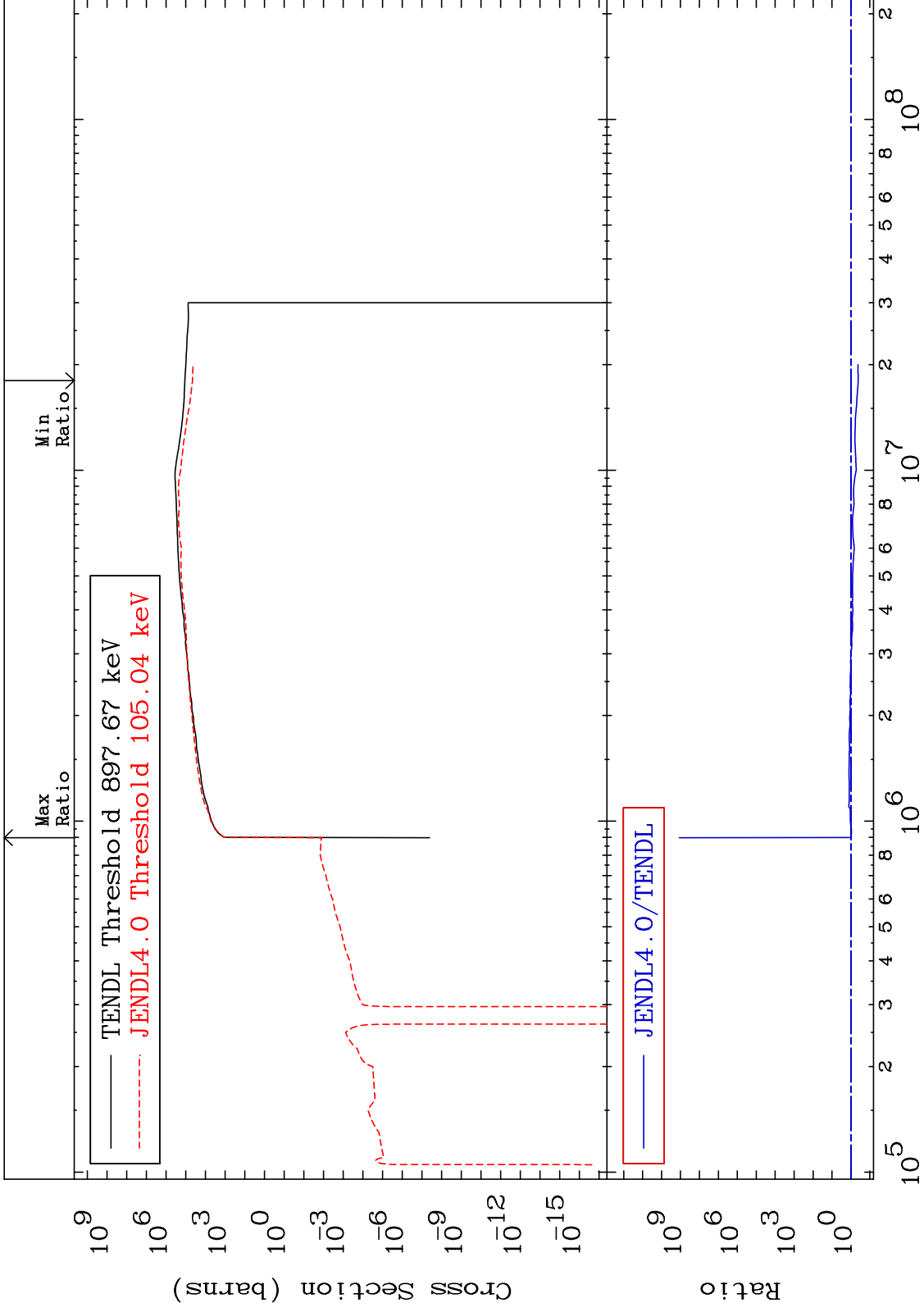
30-Zn-70
-100.0 To 9999. %



MAT 3043

Kerma inelastic (mt51-91)
Cross Section

30-Zn-70
-58.90 To 9999. %



Incident Energy (eV)

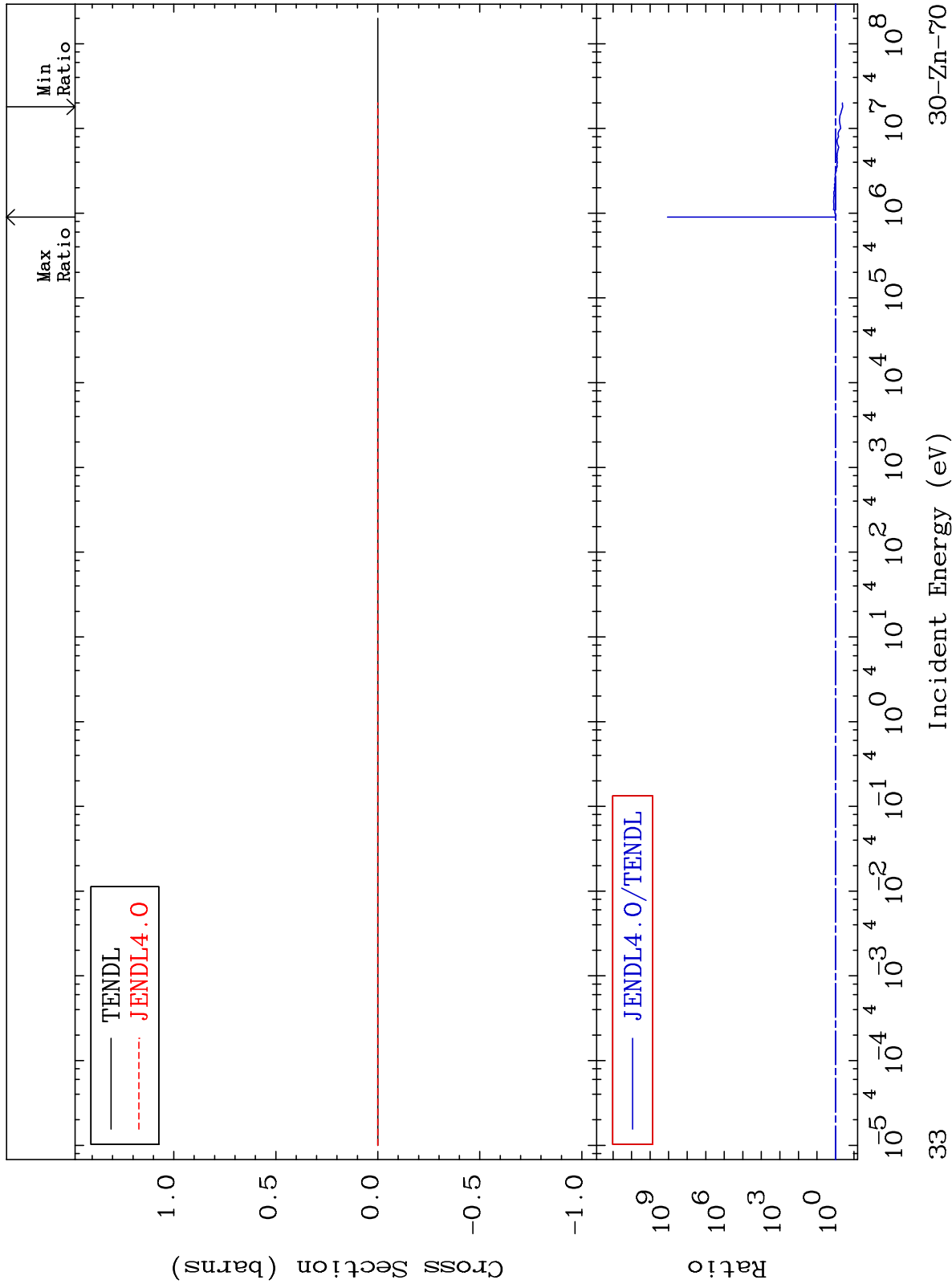
30-Zn-70

32

MAT 3043

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

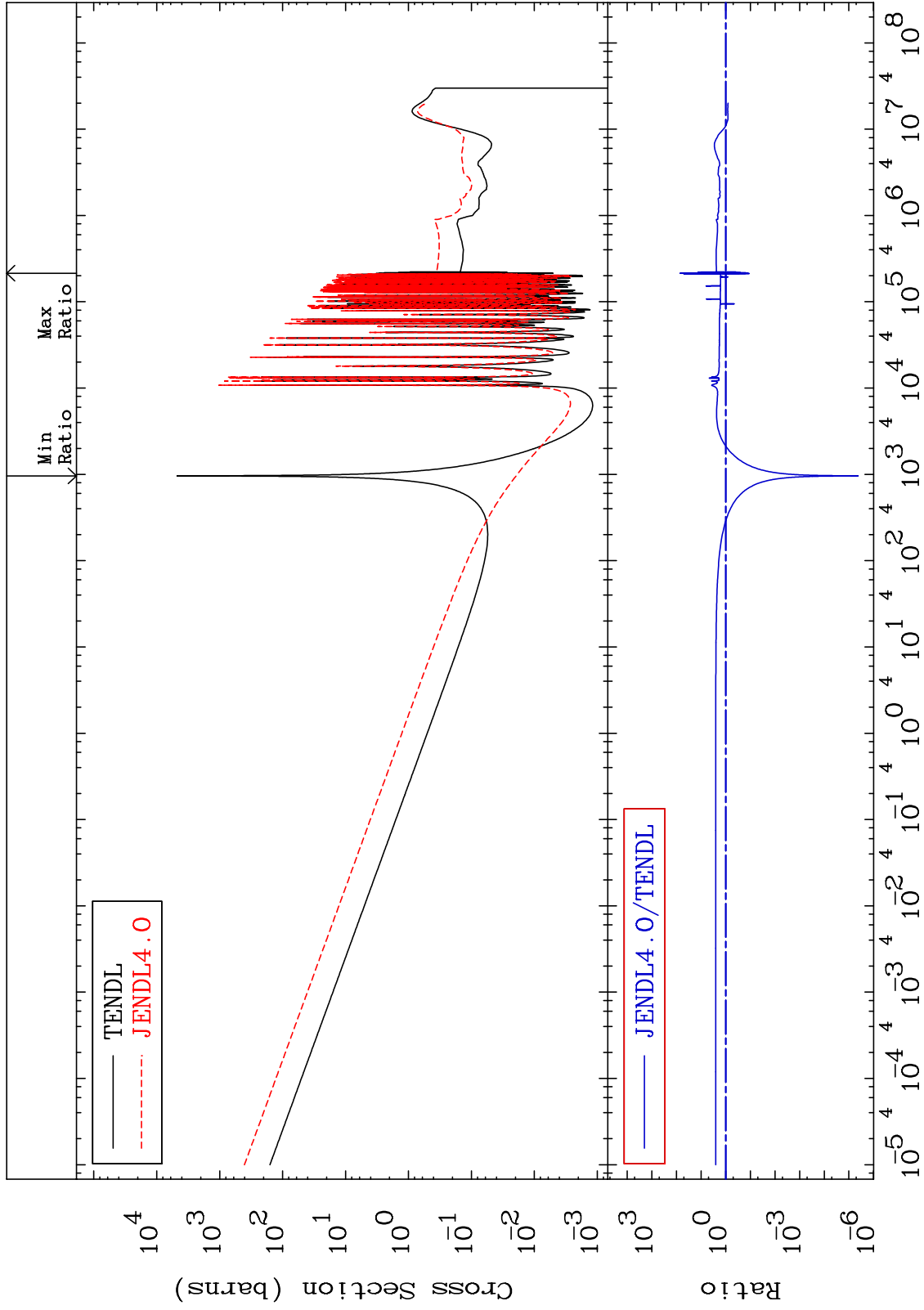
30-Zn-70
-58.90 To 9999. %



MAT 3043

Kerma capture (mt102)
Cross Section

30-Zn-70
-100.0 To 7012. %



34

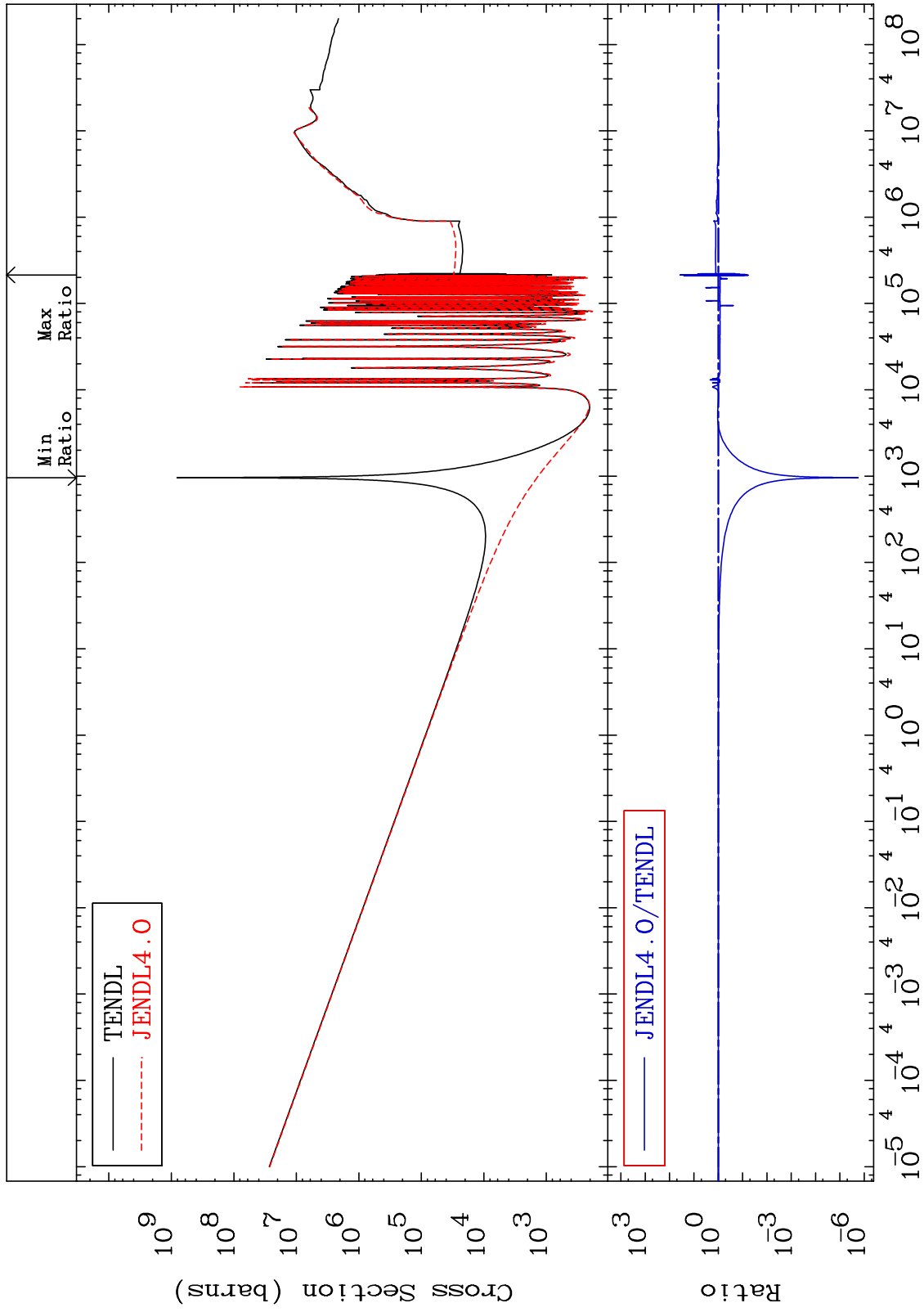
Incident Energy (eV)

30-Zn-70

MAT 3043

Total photon (eV-barns)
Cross Section

30-Zn-70
-100.0 To 3625. %



35

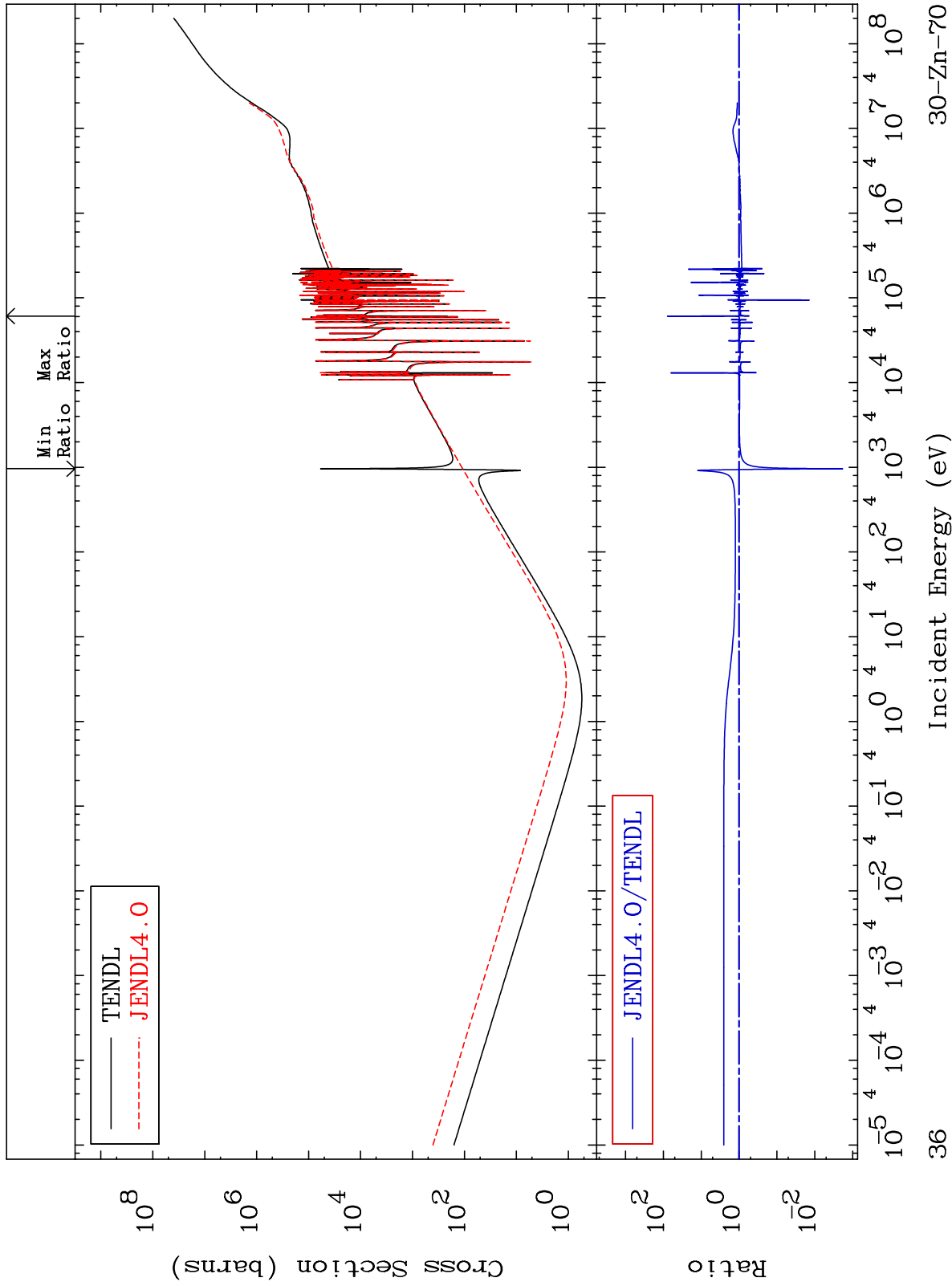
Incident Energy (eV)

30-Zn-70

MAT 3043

Total kinematic kerma (high limit)
Cross Section

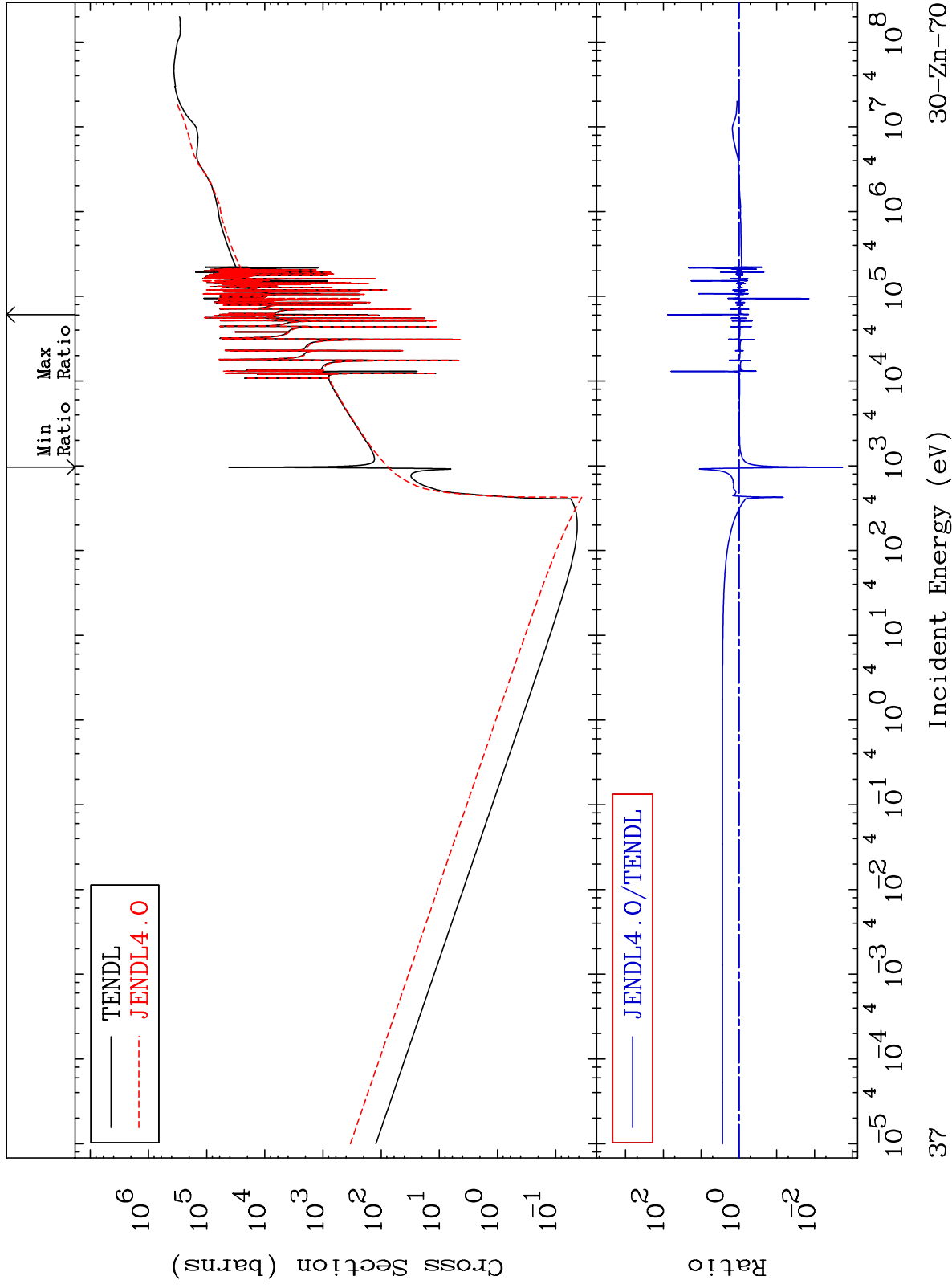
30-Zn-70
-99.82 To 7670. %



MAT 3043

Dpa total (eV-barns)
Cross Section

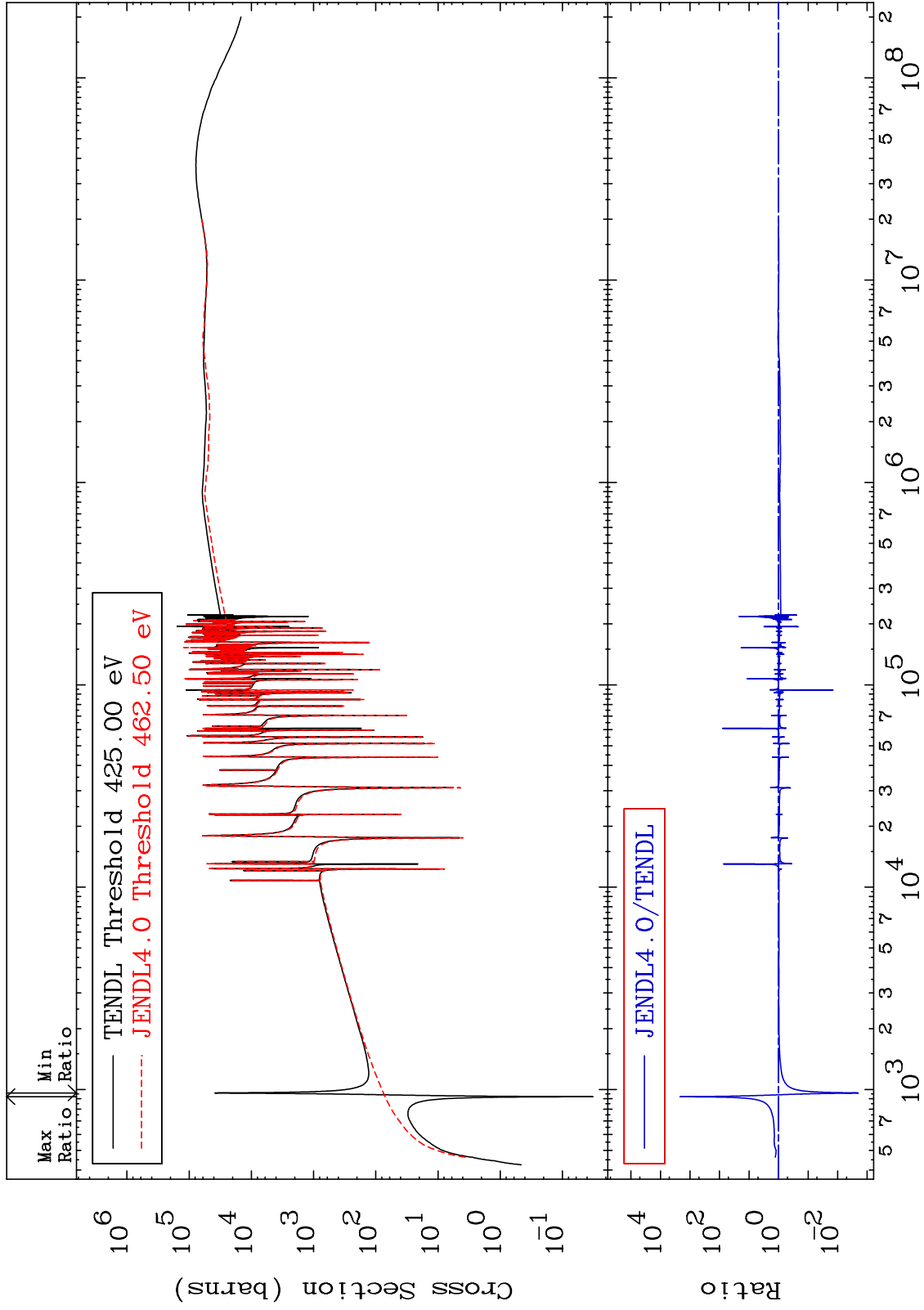
30-Zn-70
-99.82 To 7670. %



MAT 3043

Dpa elastic (mt2)
Cross Section

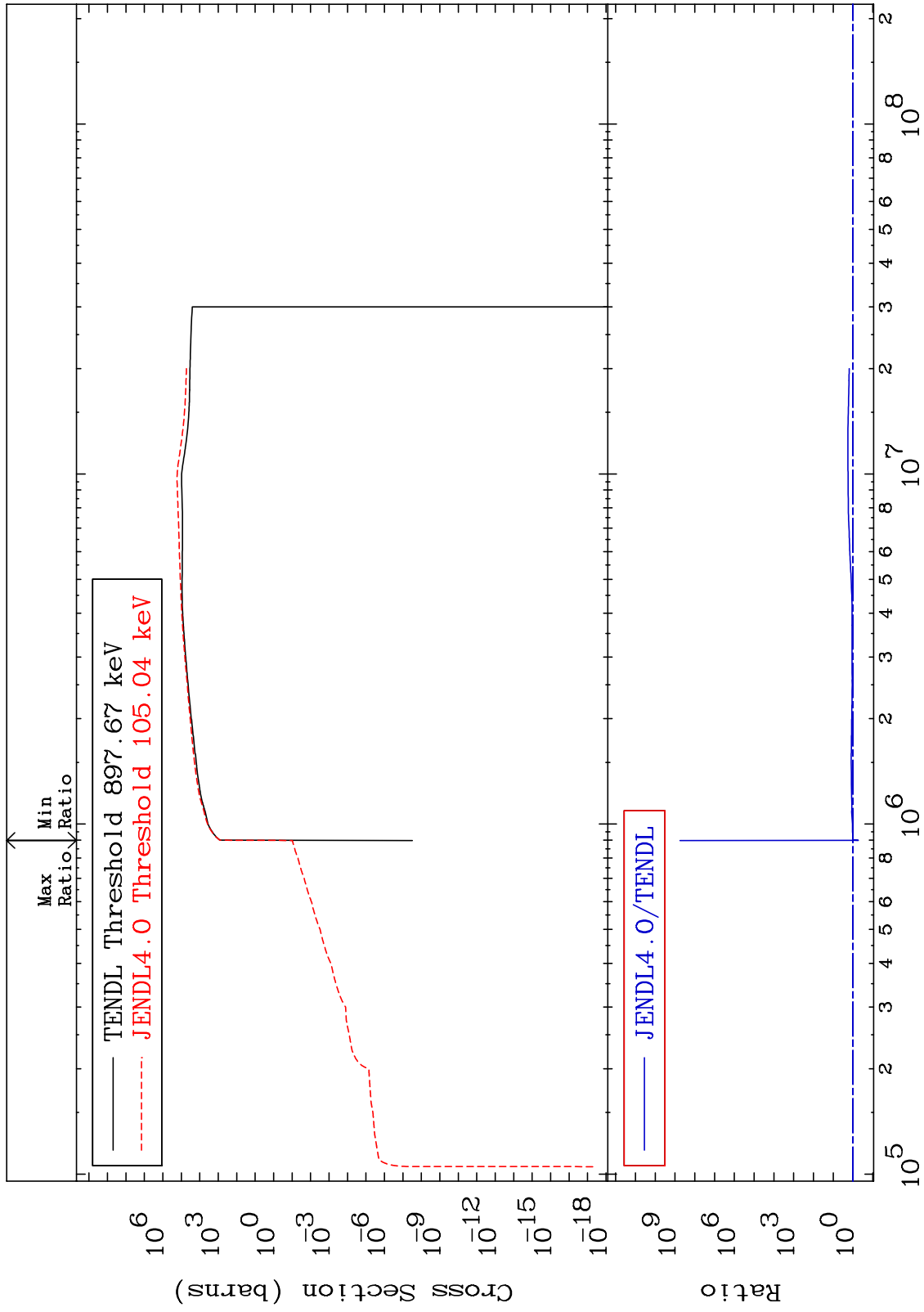
30-Zn-70
-99.80 To 9999. %



MAT 3043

Dpa inelastic (mt51-91)
Cross Section

30-Zn-70
-46.90 To 9999. %



39

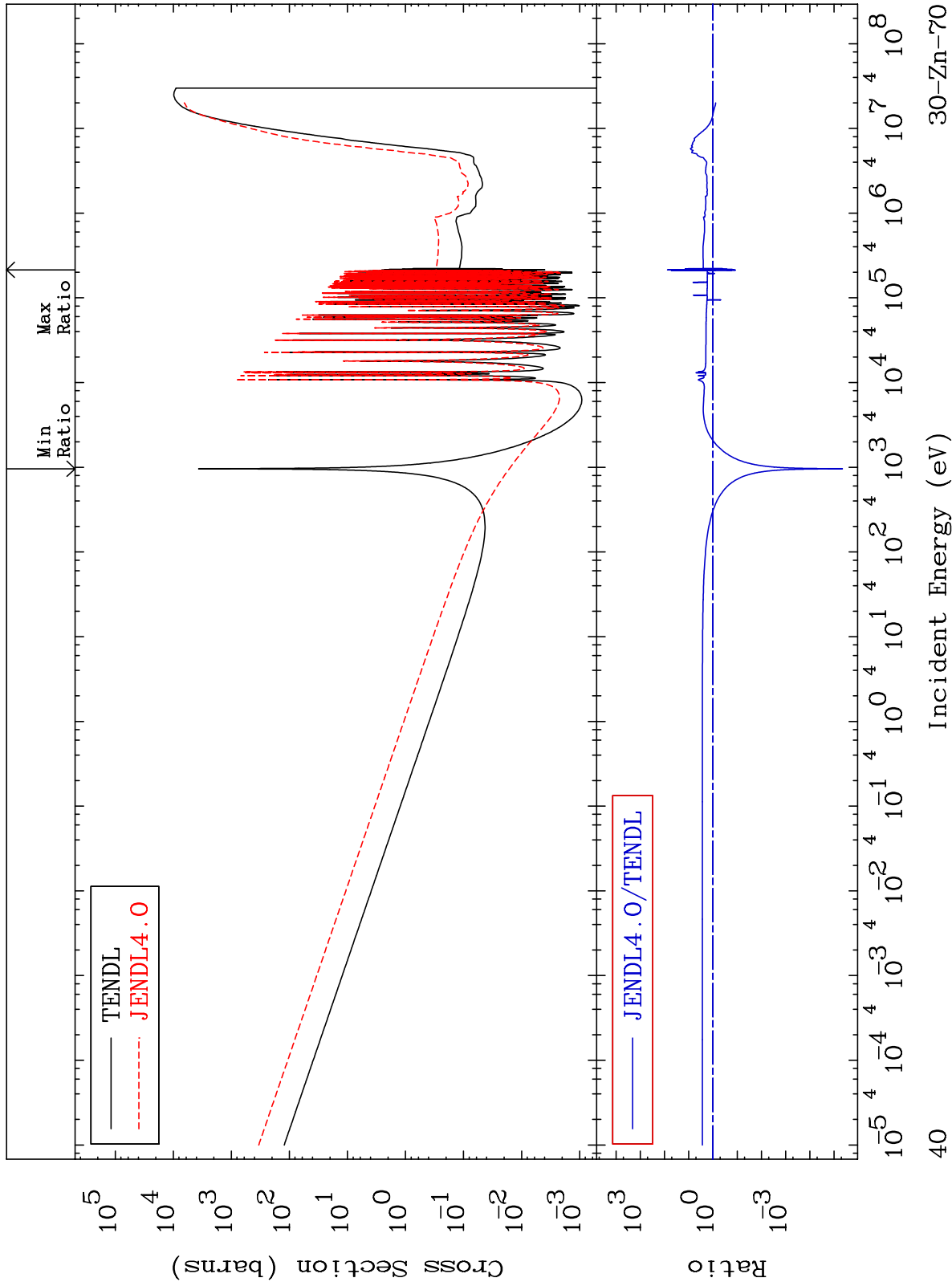
Incident Energy (eV)

30-Zn-70

MAT 3043

Dpa disappearance (mt102 -120)
Cross Section

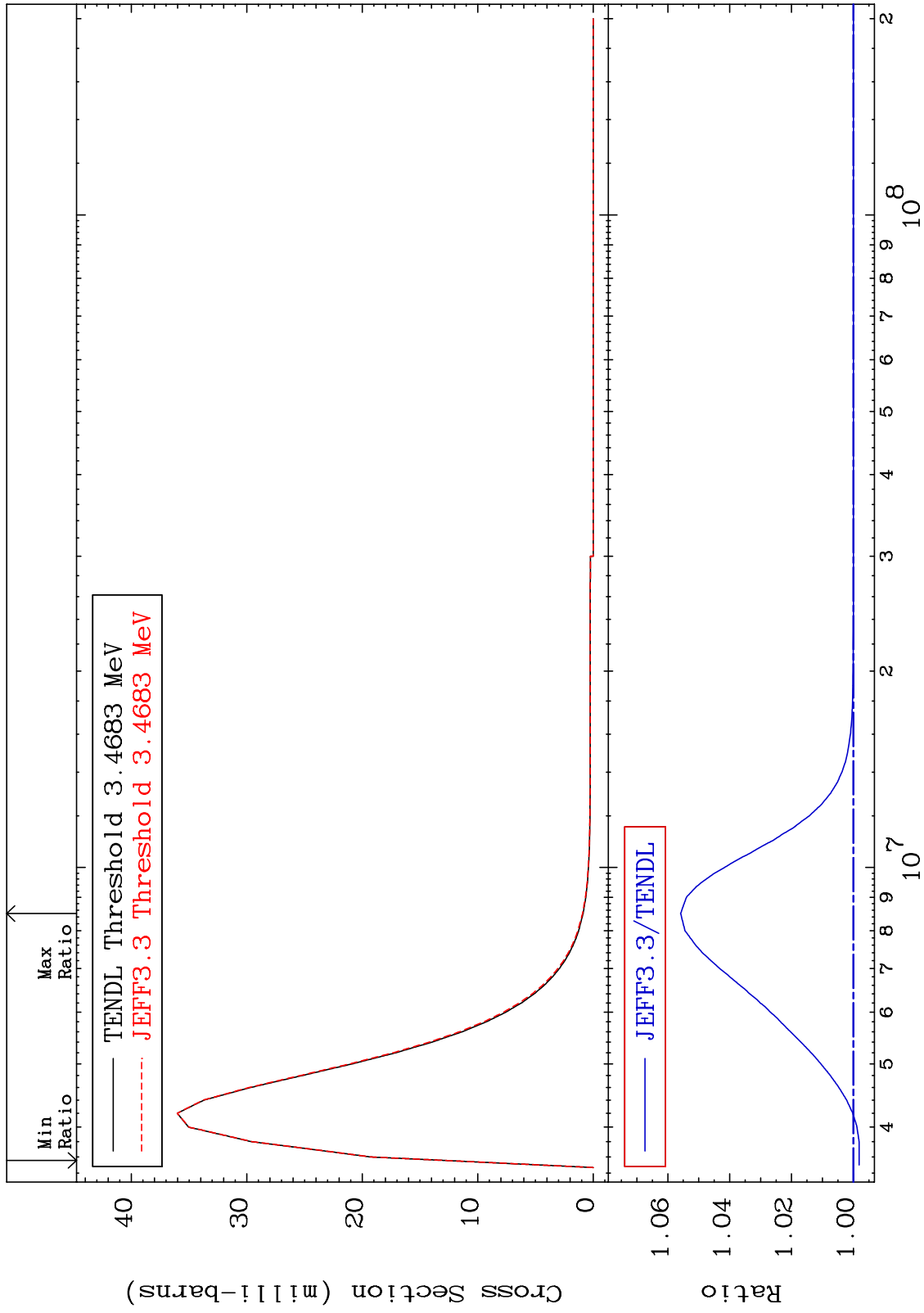
30-Zn-70
-100.0 To 7398. %



MAT 3043

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

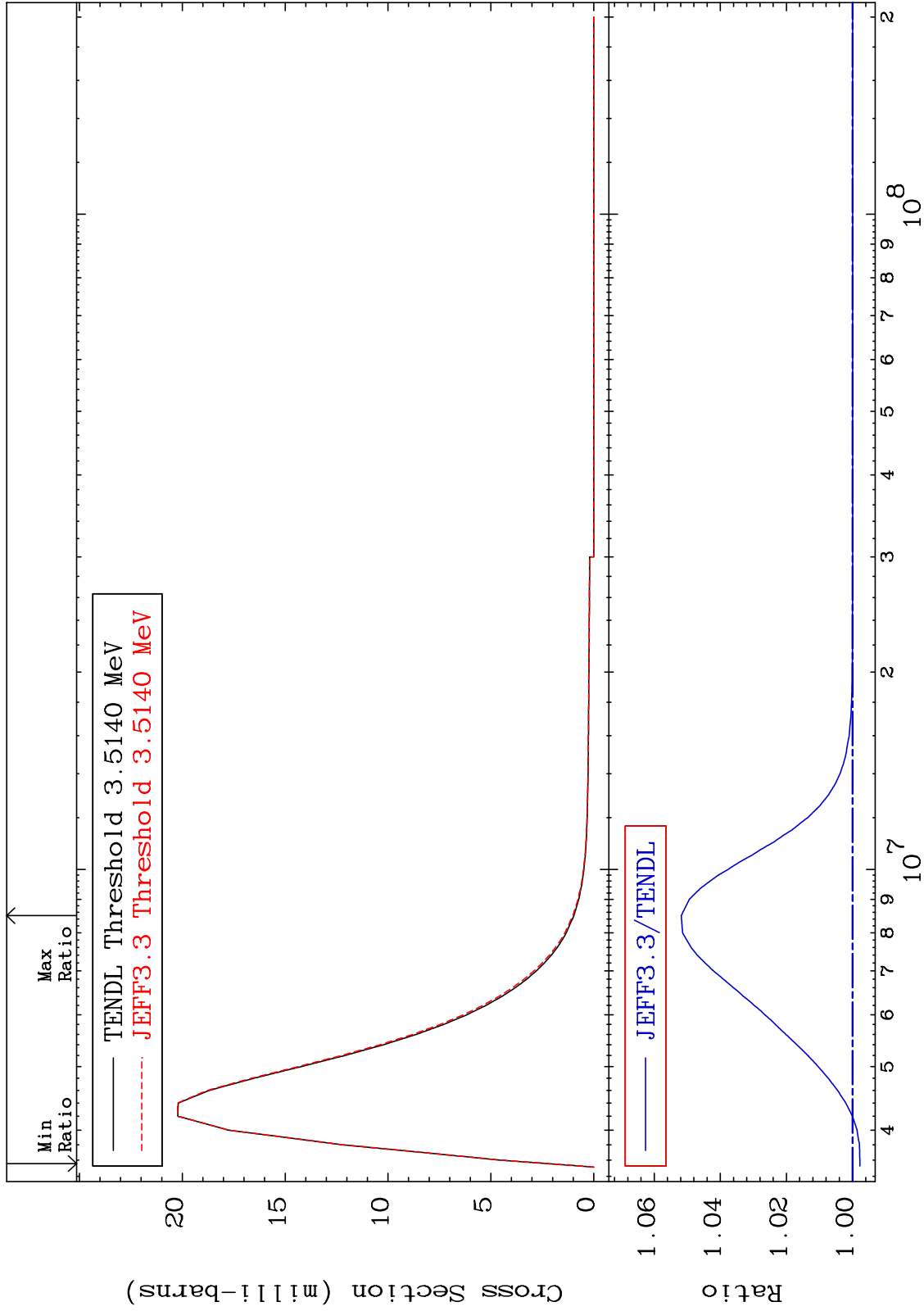
30-Zn-70
-0.187 To 5.586 %



MAT 3043

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

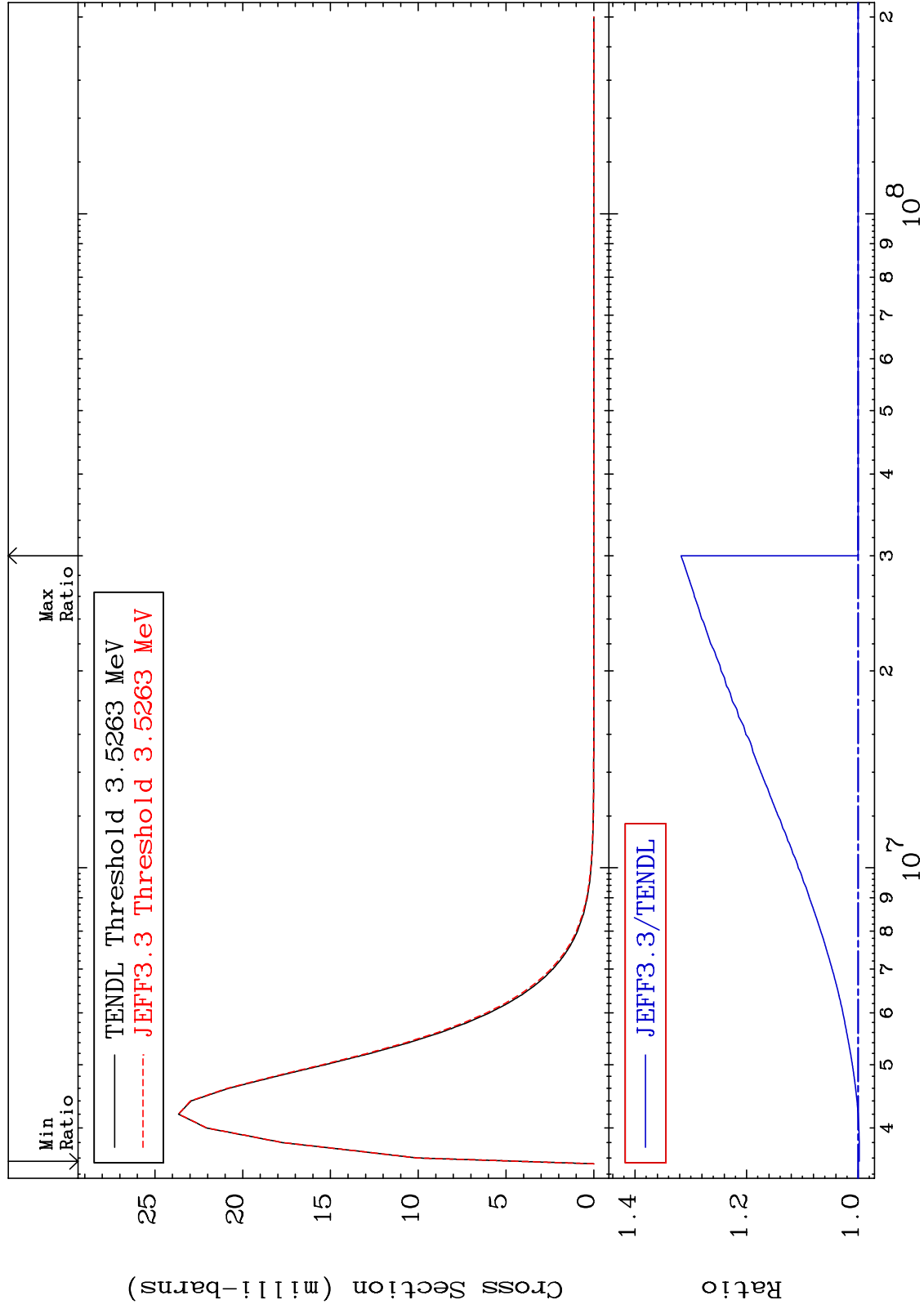
30-Zn-70
-0.222 To 5.182 %



MAT 3043

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

30-Zn-70
-0.197 To 31.75 %



43

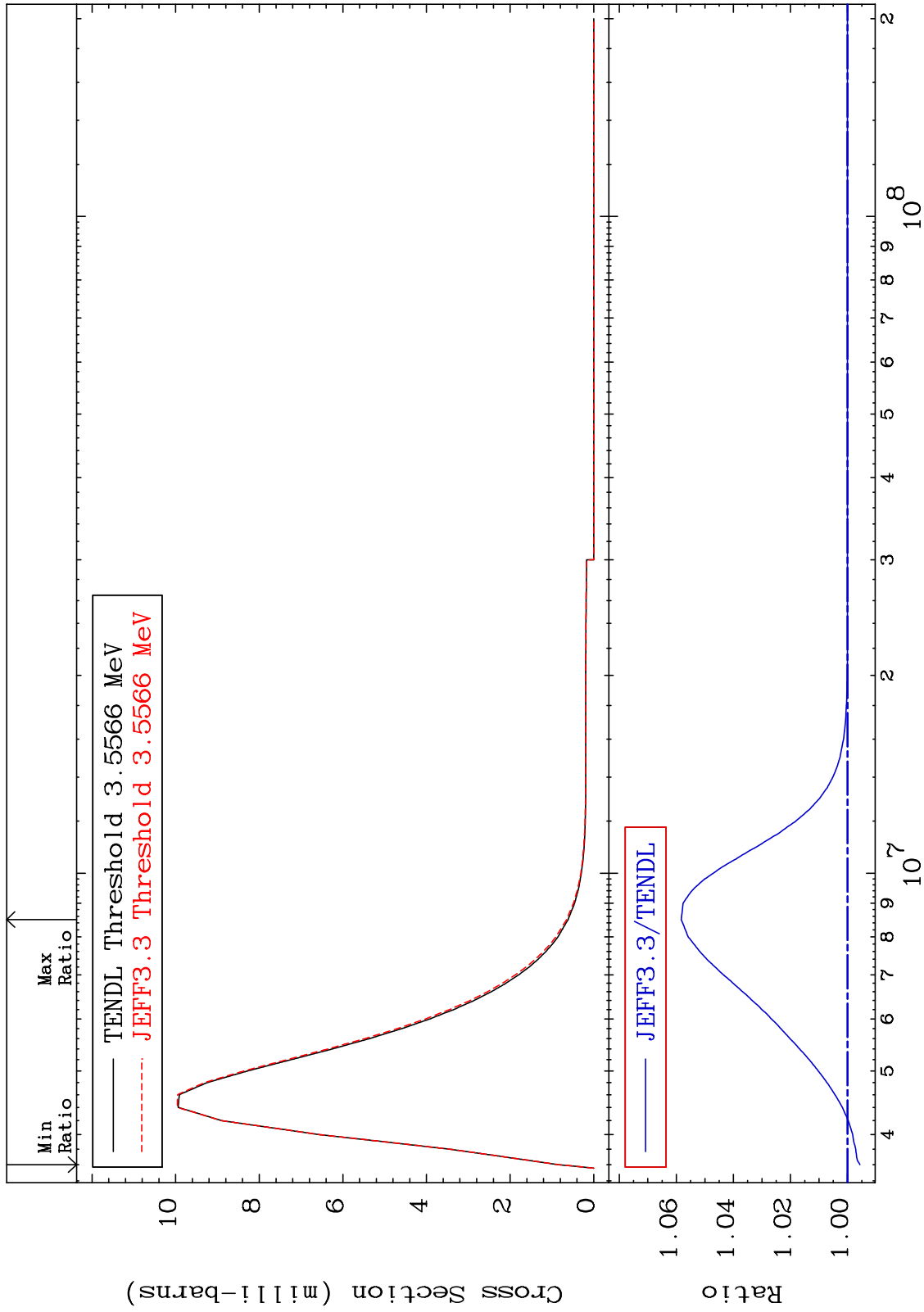
Incident Energy (eV)

30-Zn-70

MAT 3043

MT= 76 (n,n') Level
Cross Section

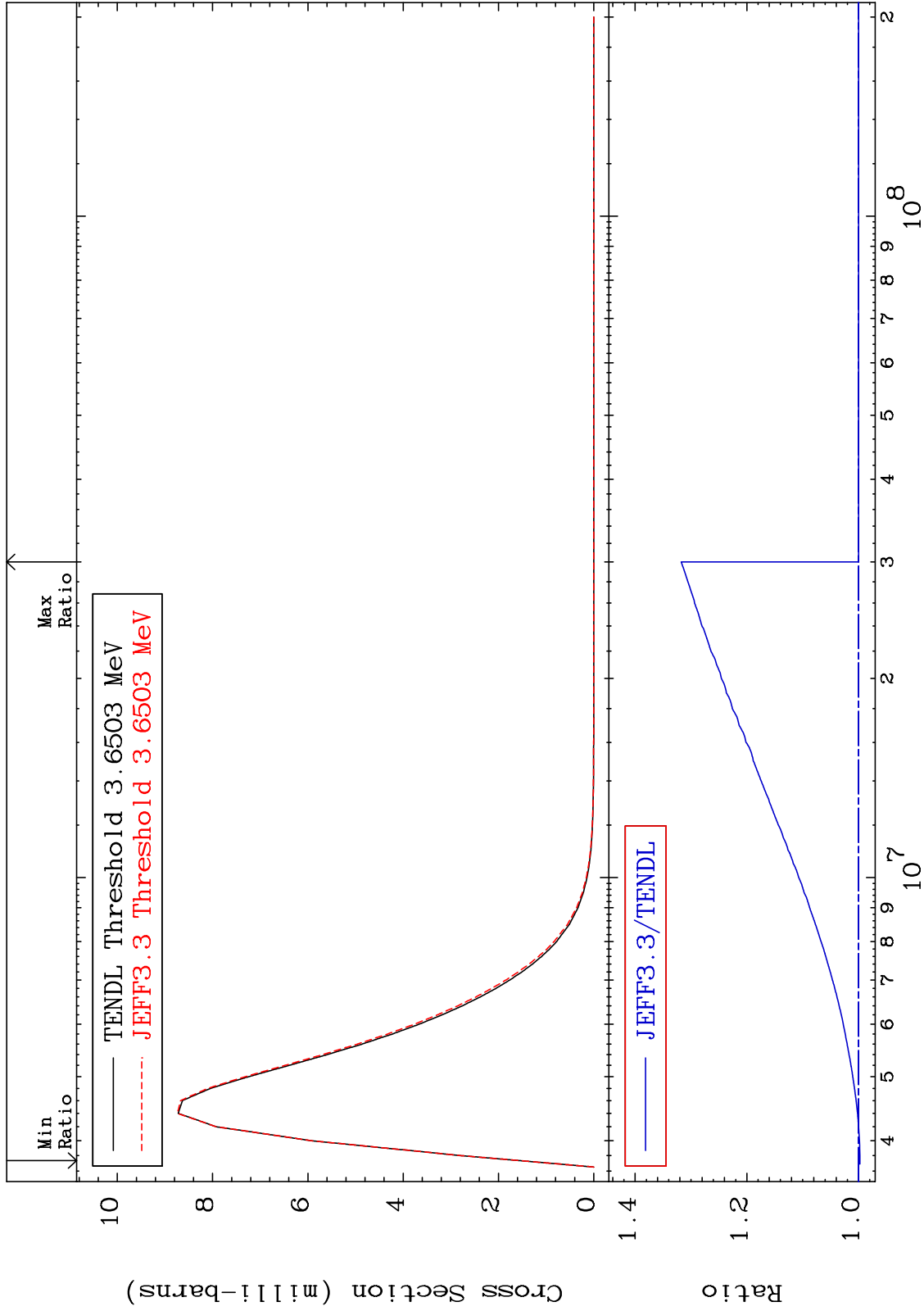
30-Zn-70
-0.435 To 5.829 %



MAT 3043

MT= 77 (n,n') Level
Cross Section

30-Zn-70
-0.245 To 31.75 %



45

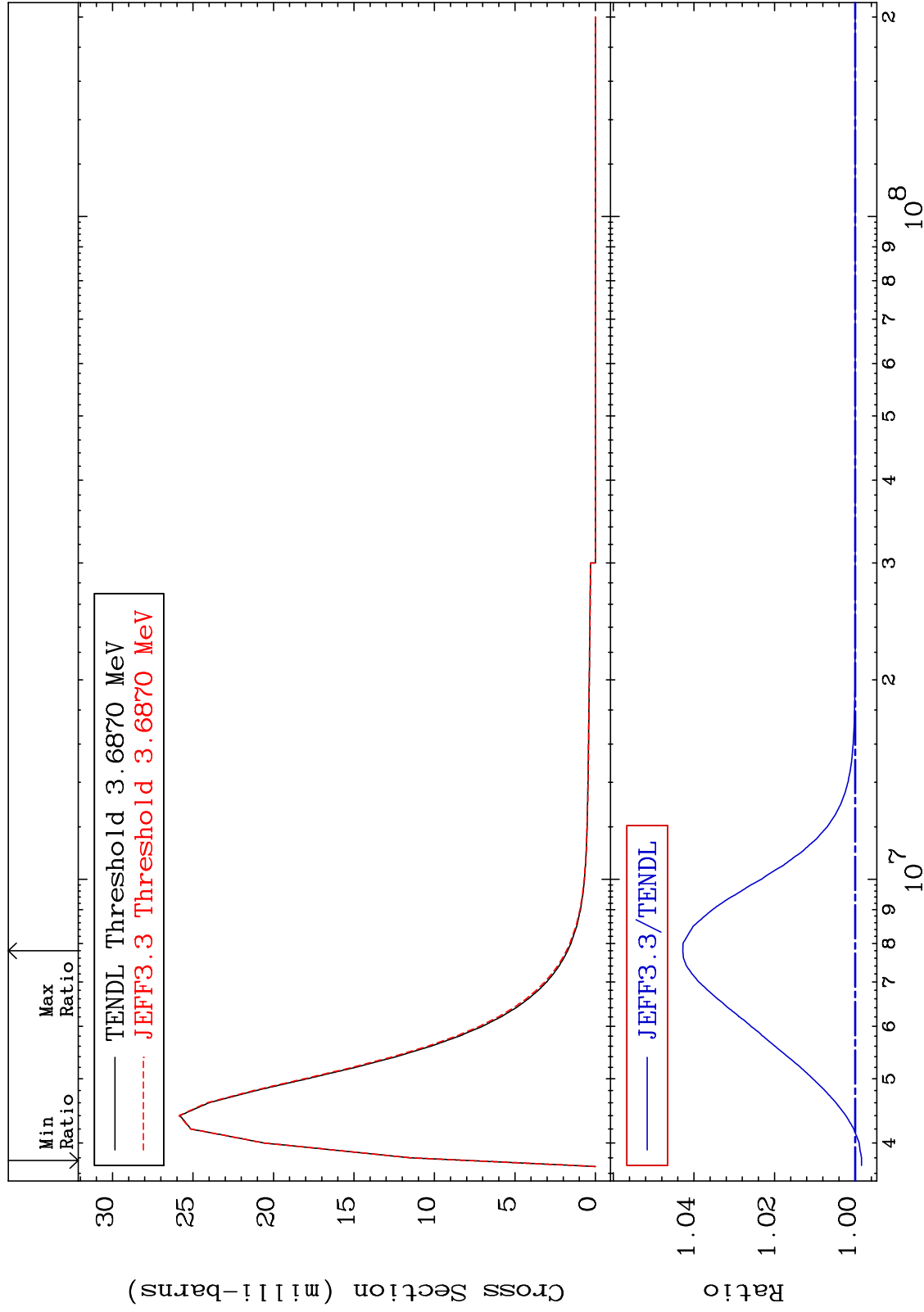
Incident Energy (eV)

30-Zn-70

MAT 3043

MT= 78 (n,n') Level
Cross Section

30-Zn-70
-0.160 To 4.275 %



46

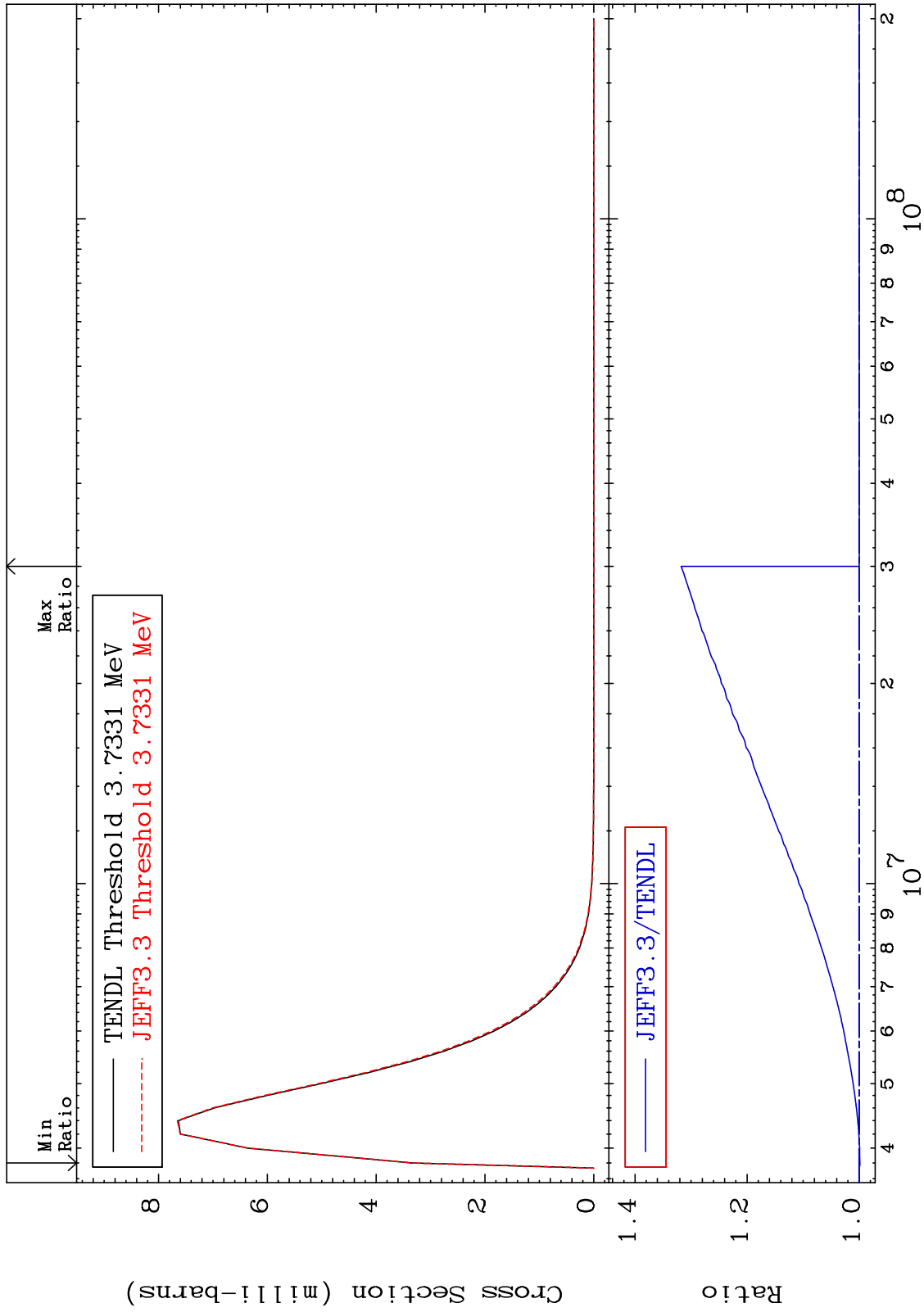
Incident Energy (eV)

30-Zn-70

MAT 3043

MT= 79 (n,n') Level
Cross Section

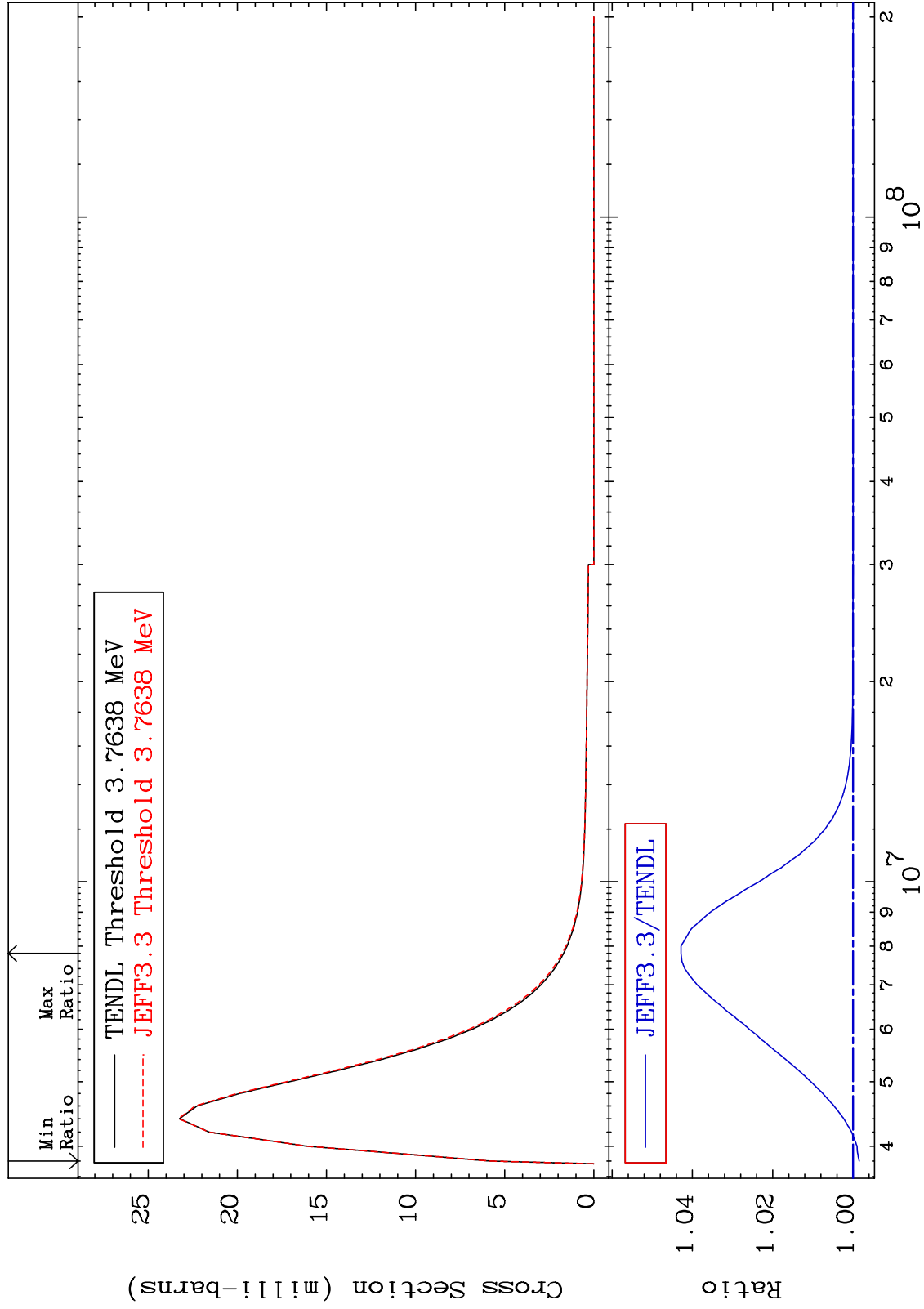
30-Zn-70
-0.138 To 31.75 %



MAT 3043

MT= 80 (n,n') Level
Cross Section

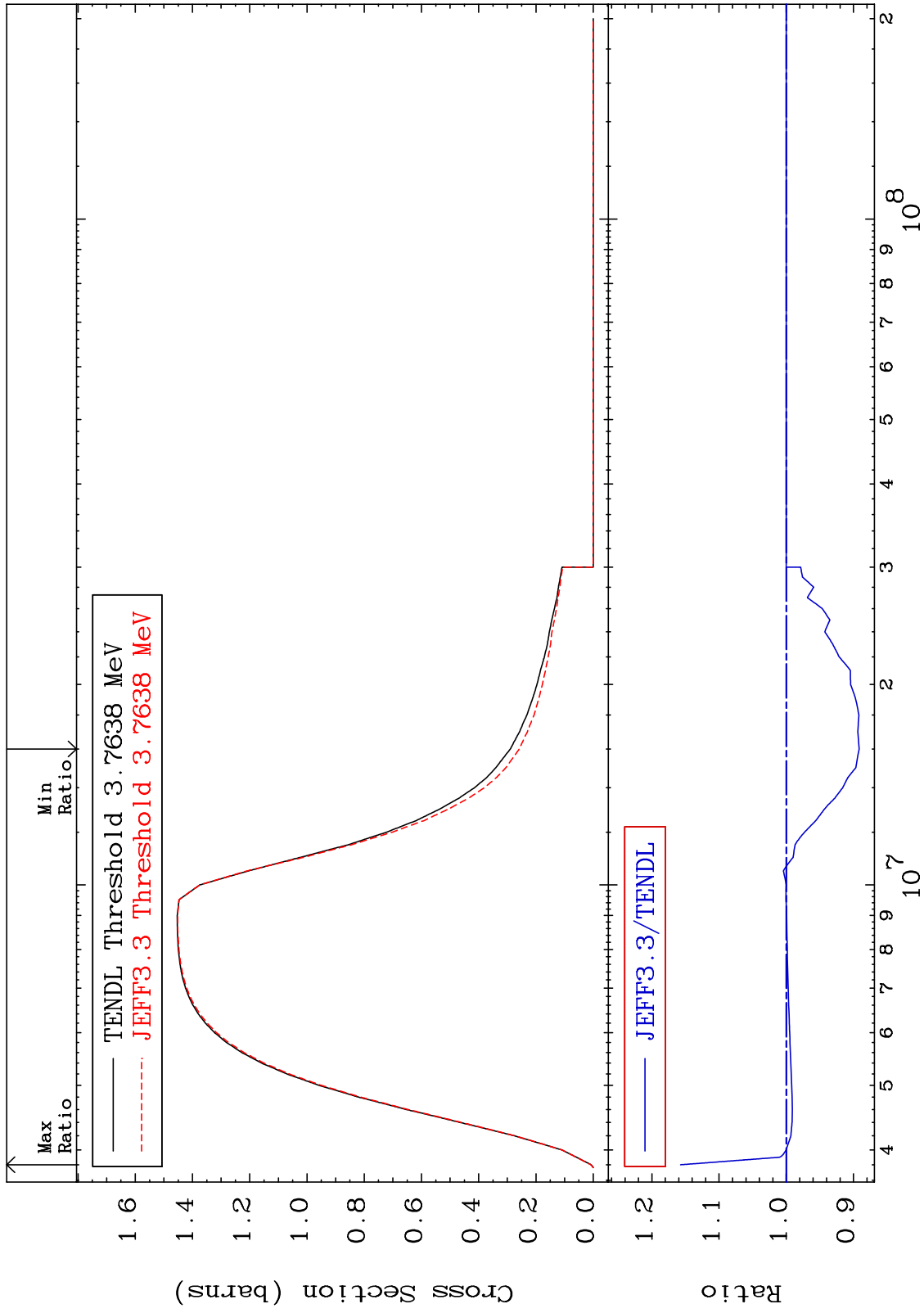
30-Zn-70
-0.156 To 4.282 %



MAT 3043

(n, n') Continuum
Cross Section

30-Zn-70
-10.85 To 15.72 %



49

Incident Energy (eV)

30-Zn-70

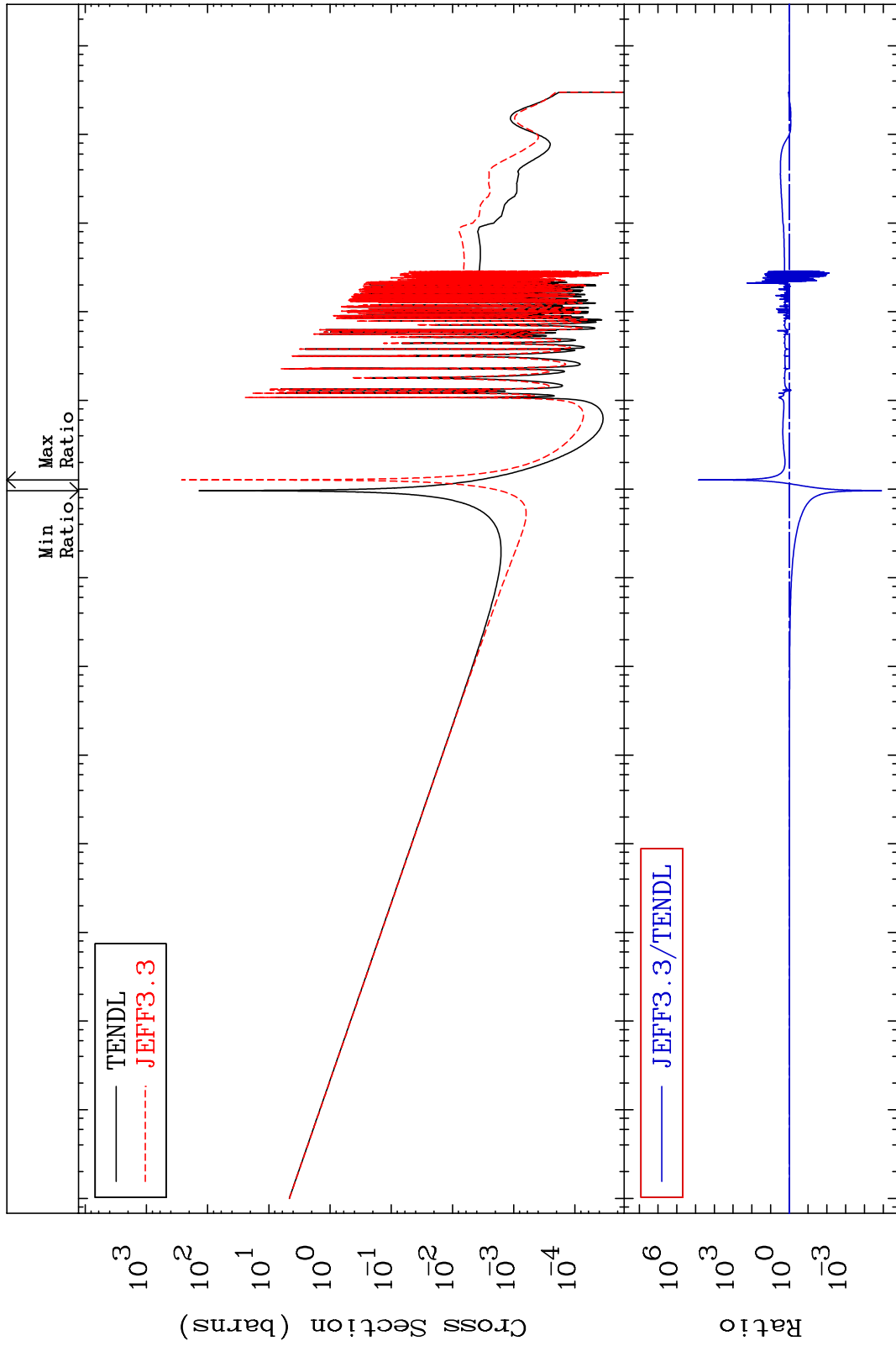
MAT 3043

(n, γ)

30-Zn-70

Cross Section

-100.0 To 9999. %



Incident Energy (eV) 30-Zn-70

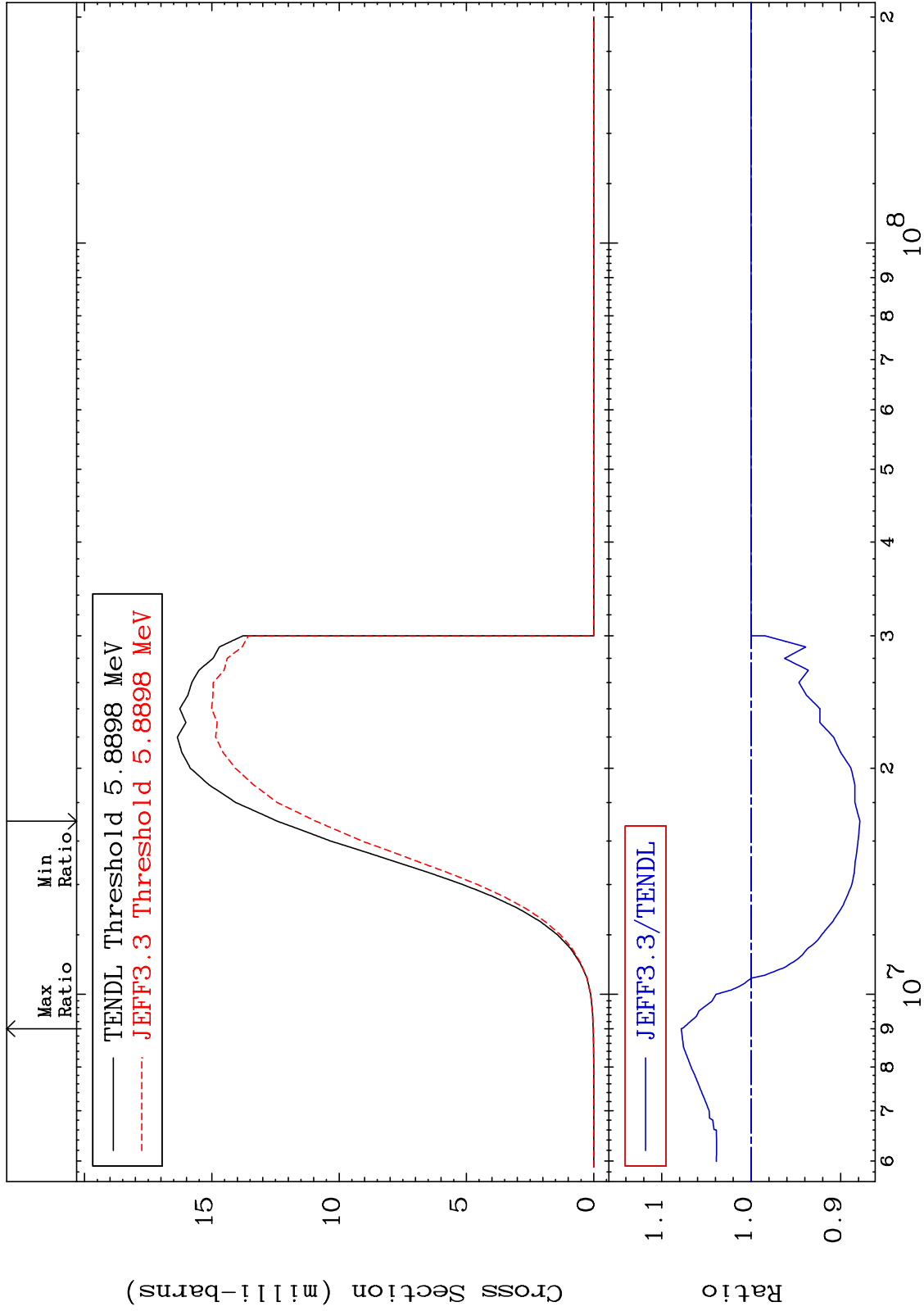
MAT 3043

(n,p)

30-Zn-70

Cross Section

-12.14 To 7.810 %



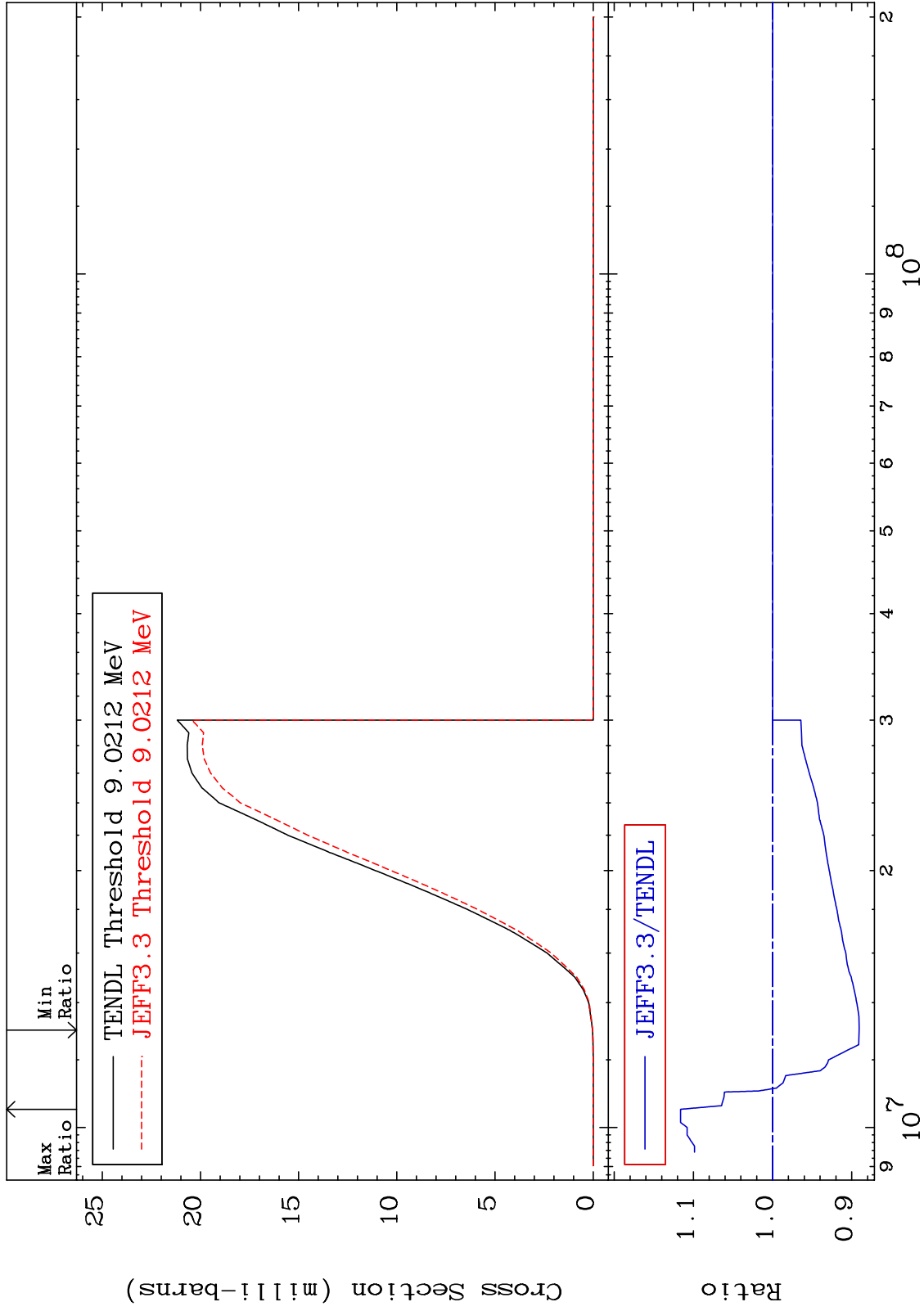
MAT 3043

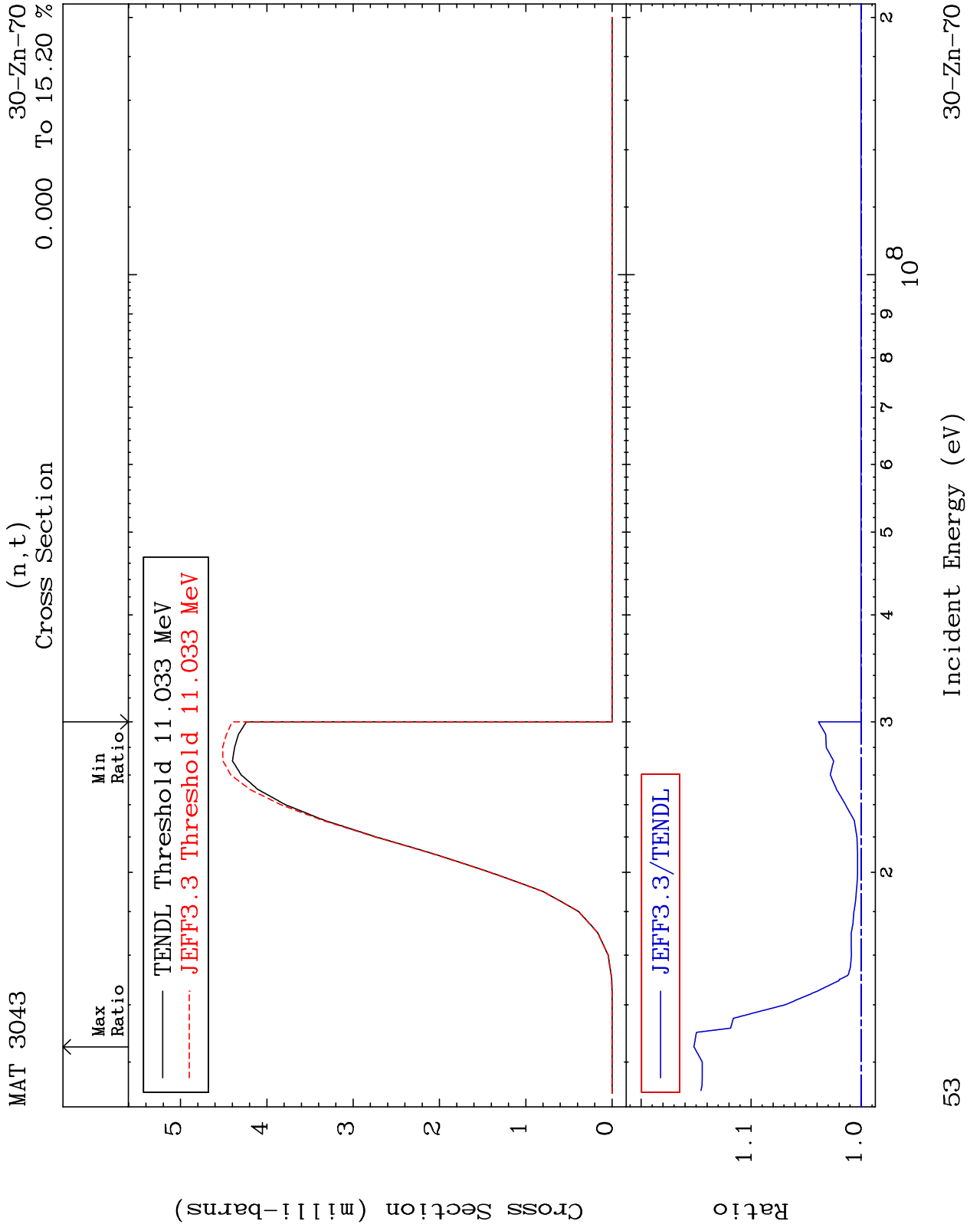
(n, d)

30-Zn-70

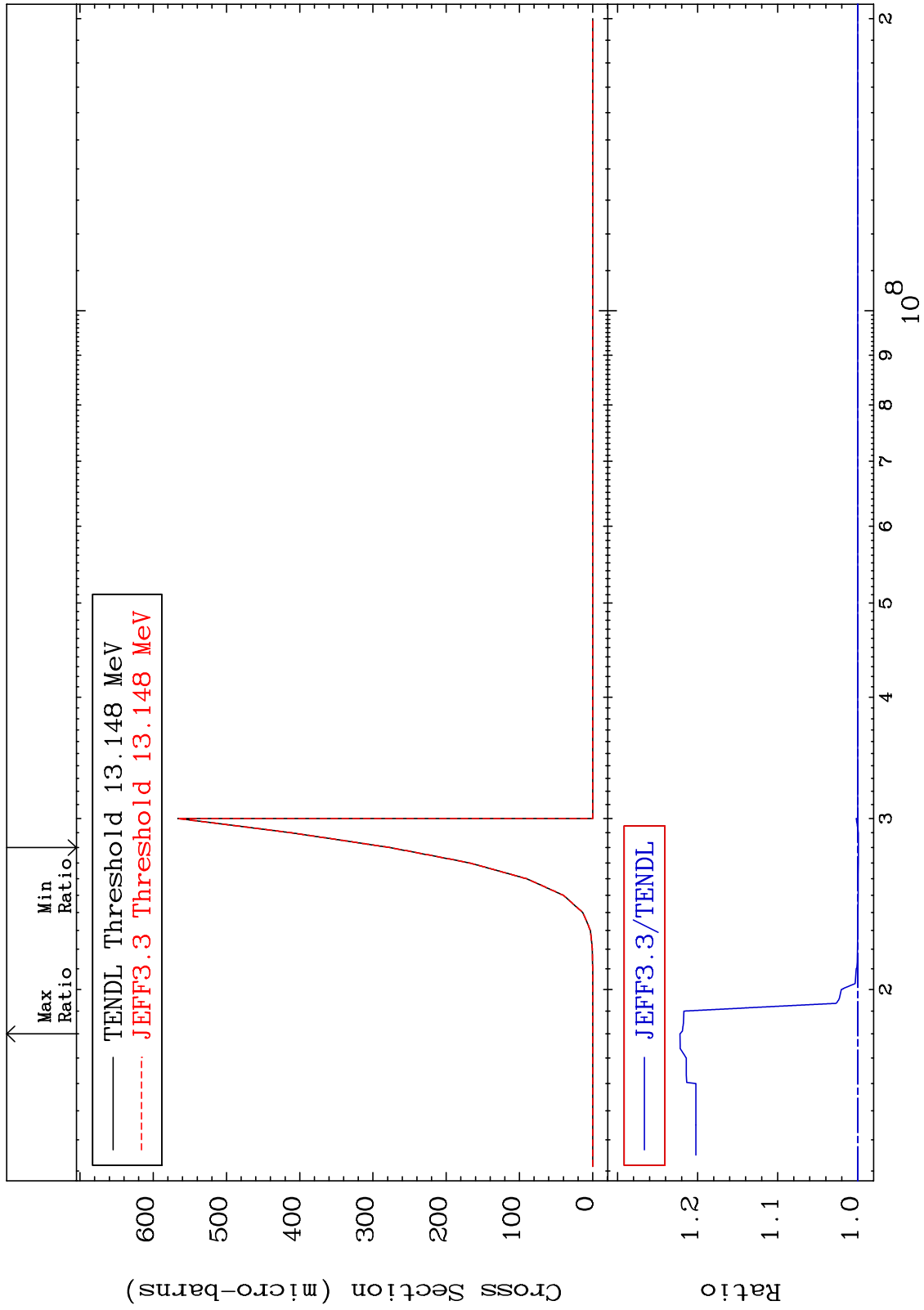
Cross Section

-10.94 To 11.62 %





MAT 3043 (n, He-3) 30-Zn-70
 Cross Section -0.074 To 22.20 %



30-Zn-70

Incident Energy (eV)

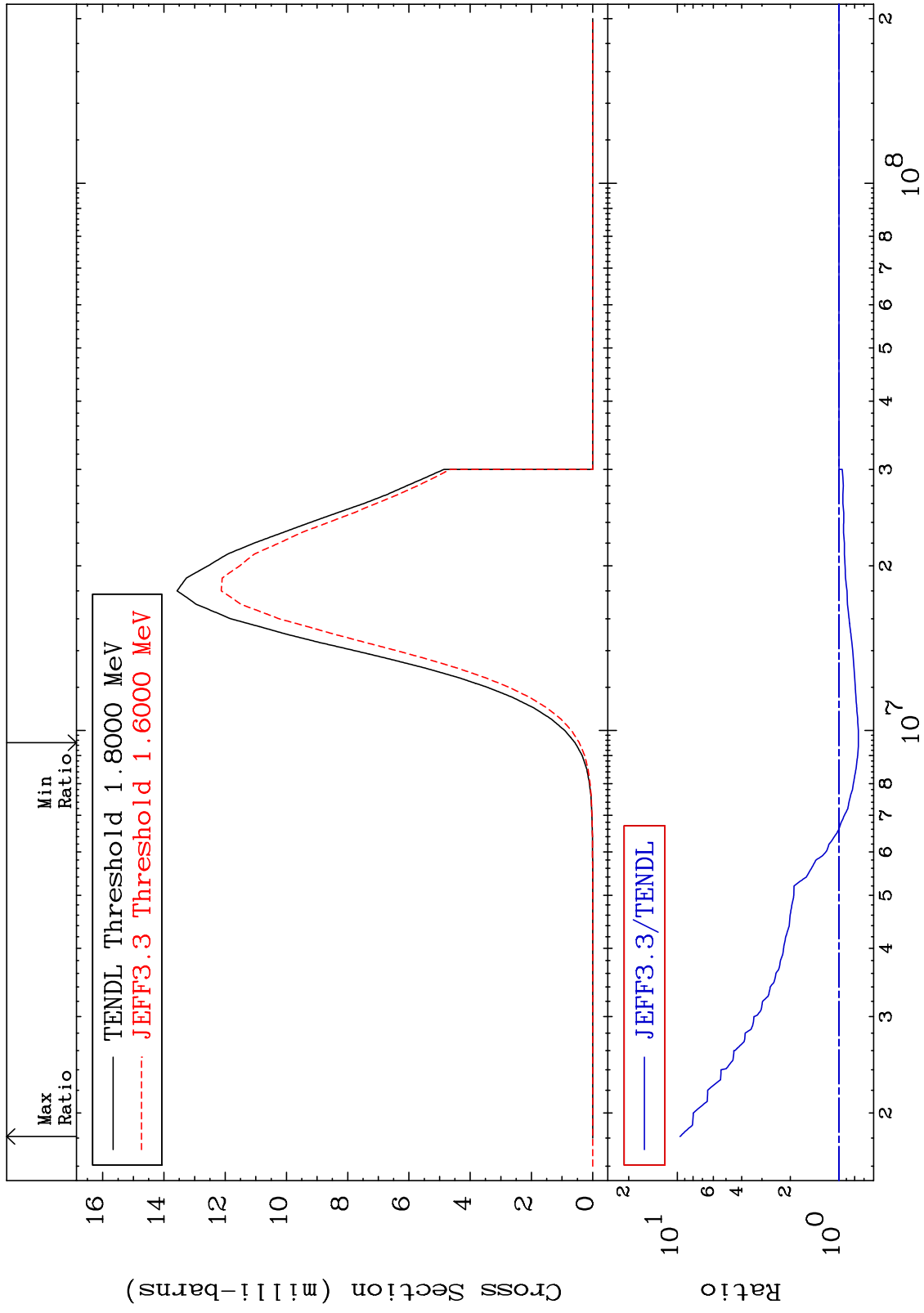
MAT 3043

(n, α)

30-Zn-70

Cross Section

-24.11 To 863.1 %



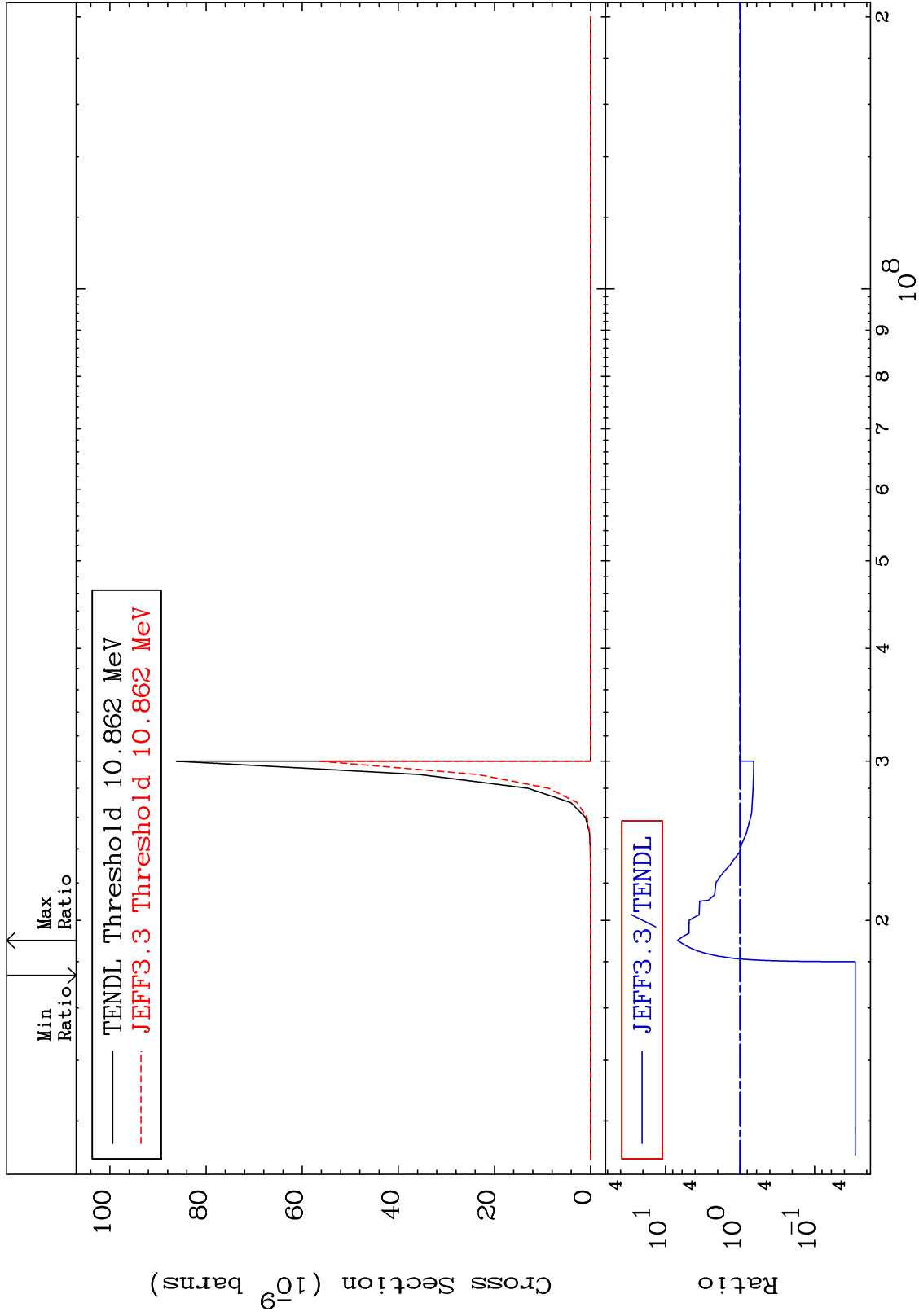
MAT 3043

(n,2α)

30-Zn-70

Cross Section

-97.14 To 588.7 %



56

Incident Energy (eV)

30-Zn-70

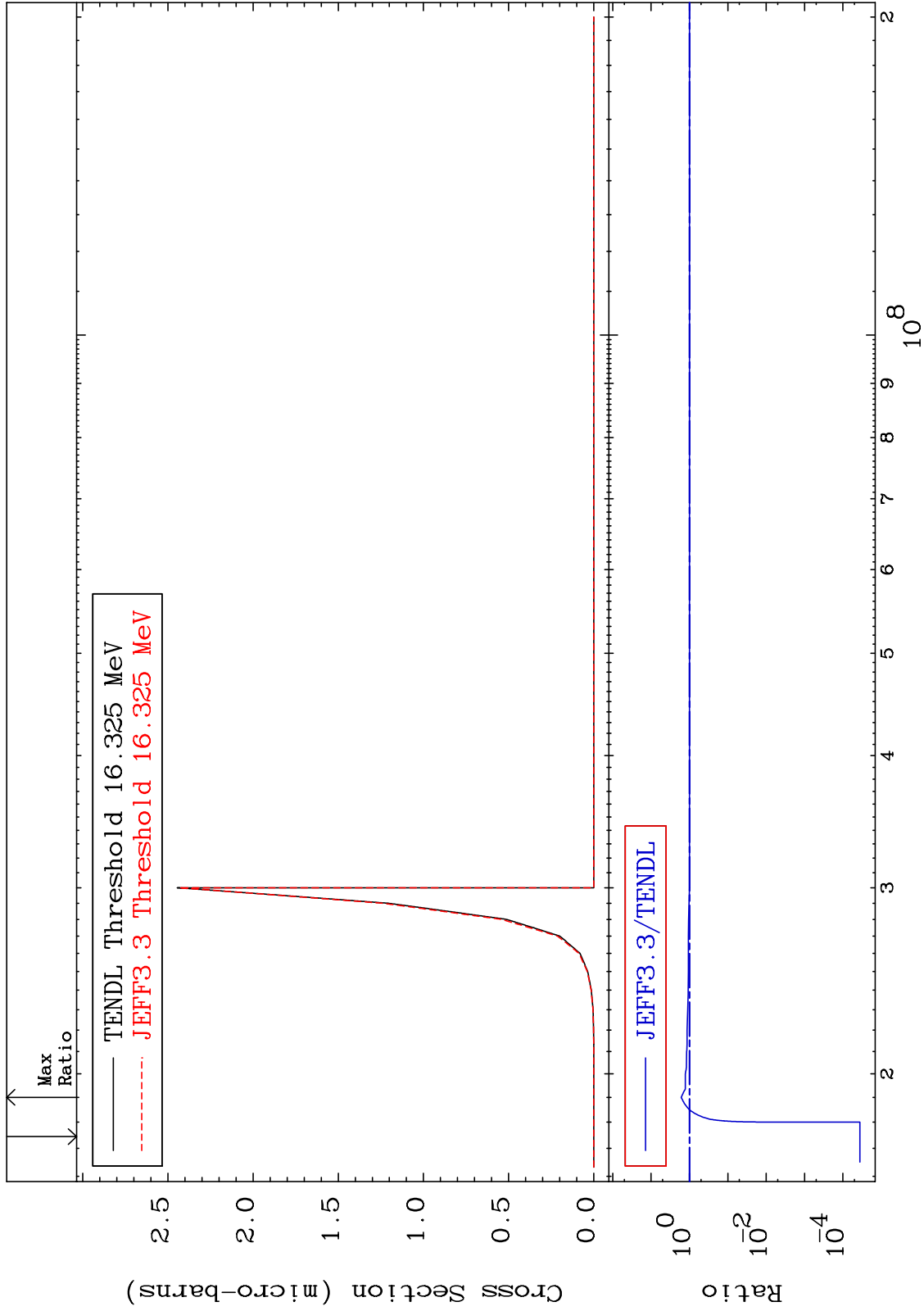
MAT 3043

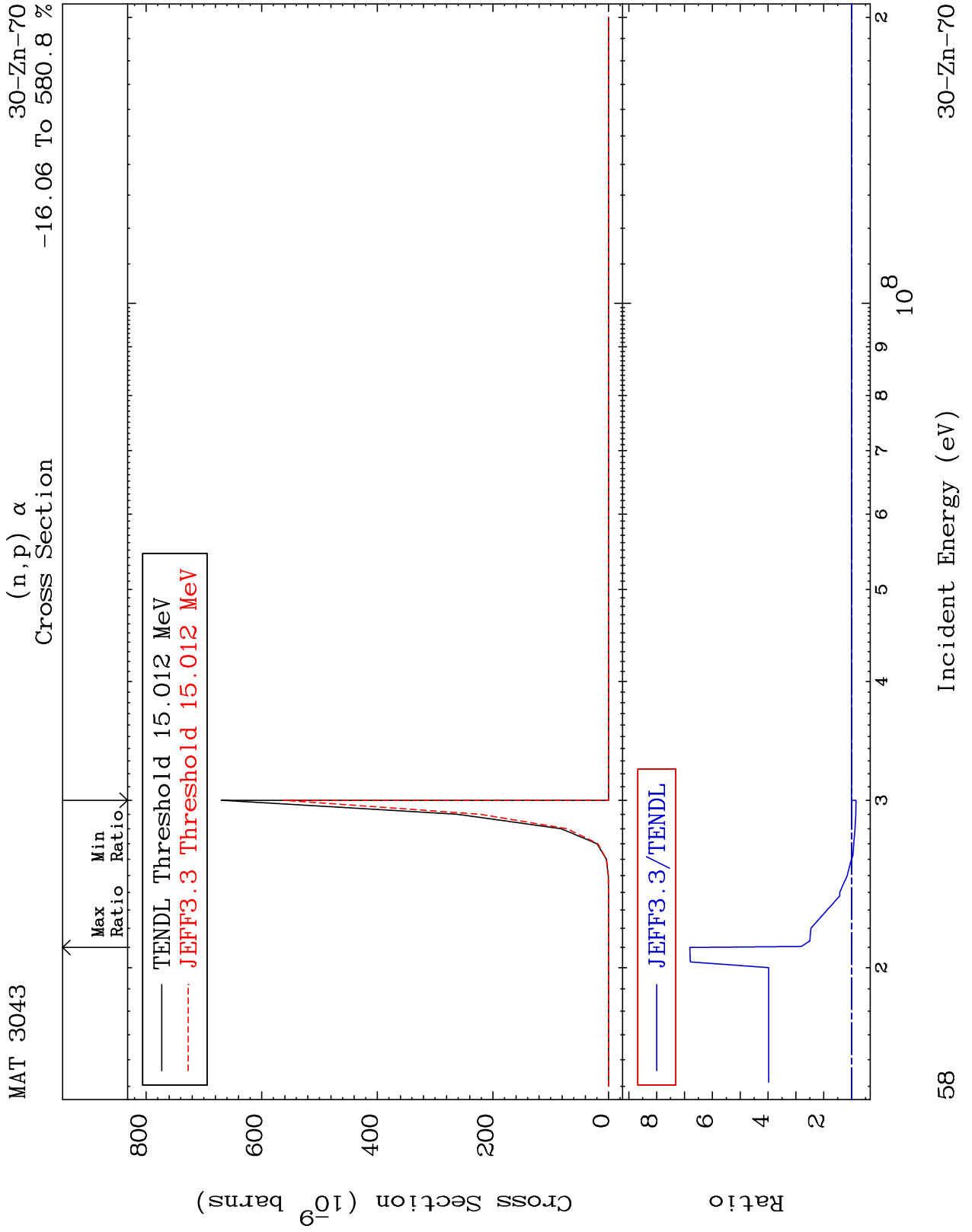
(n,2p)

30-Zn-70

Cross Section

-100.0 To 63.95 %





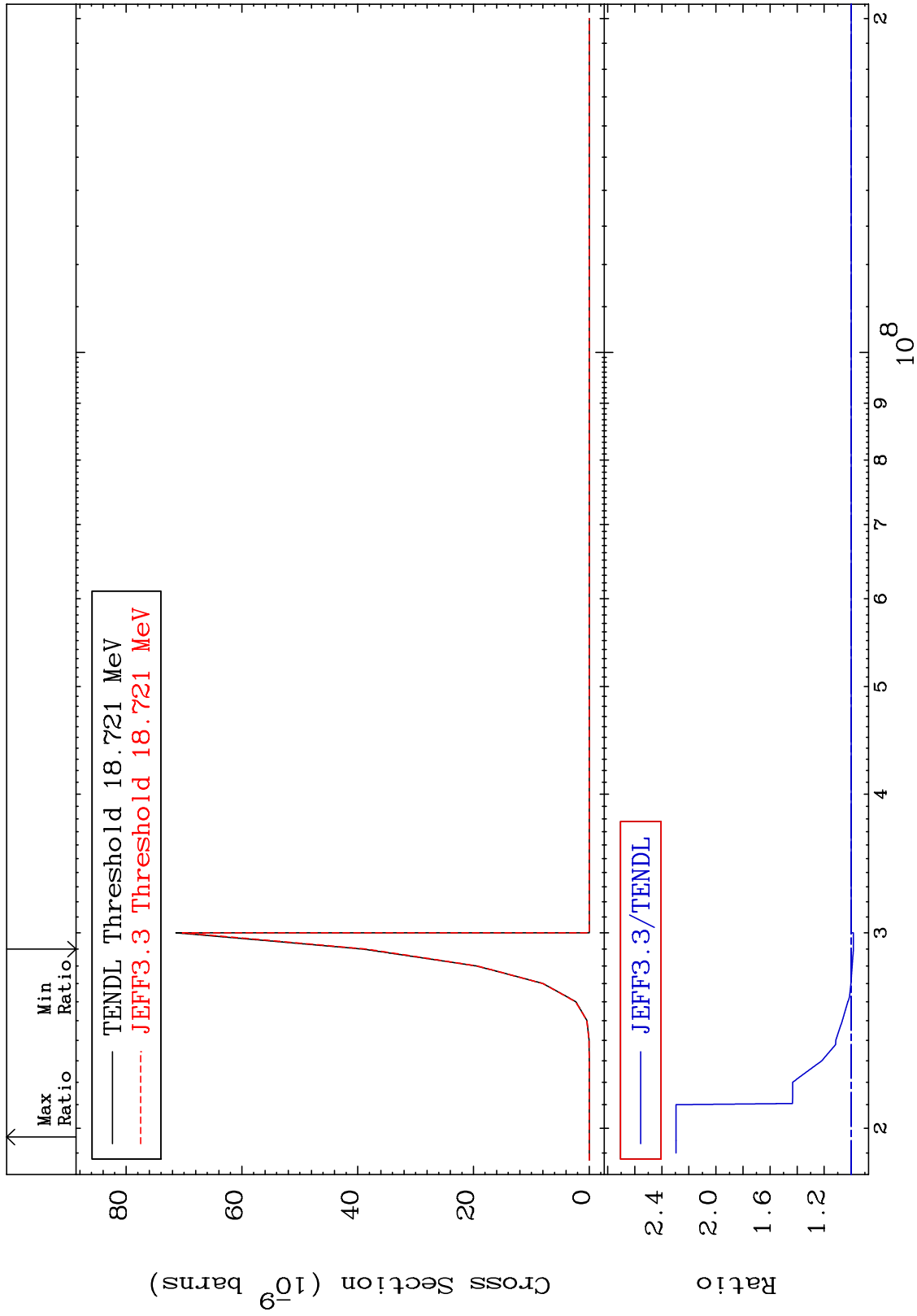
MAT 3043

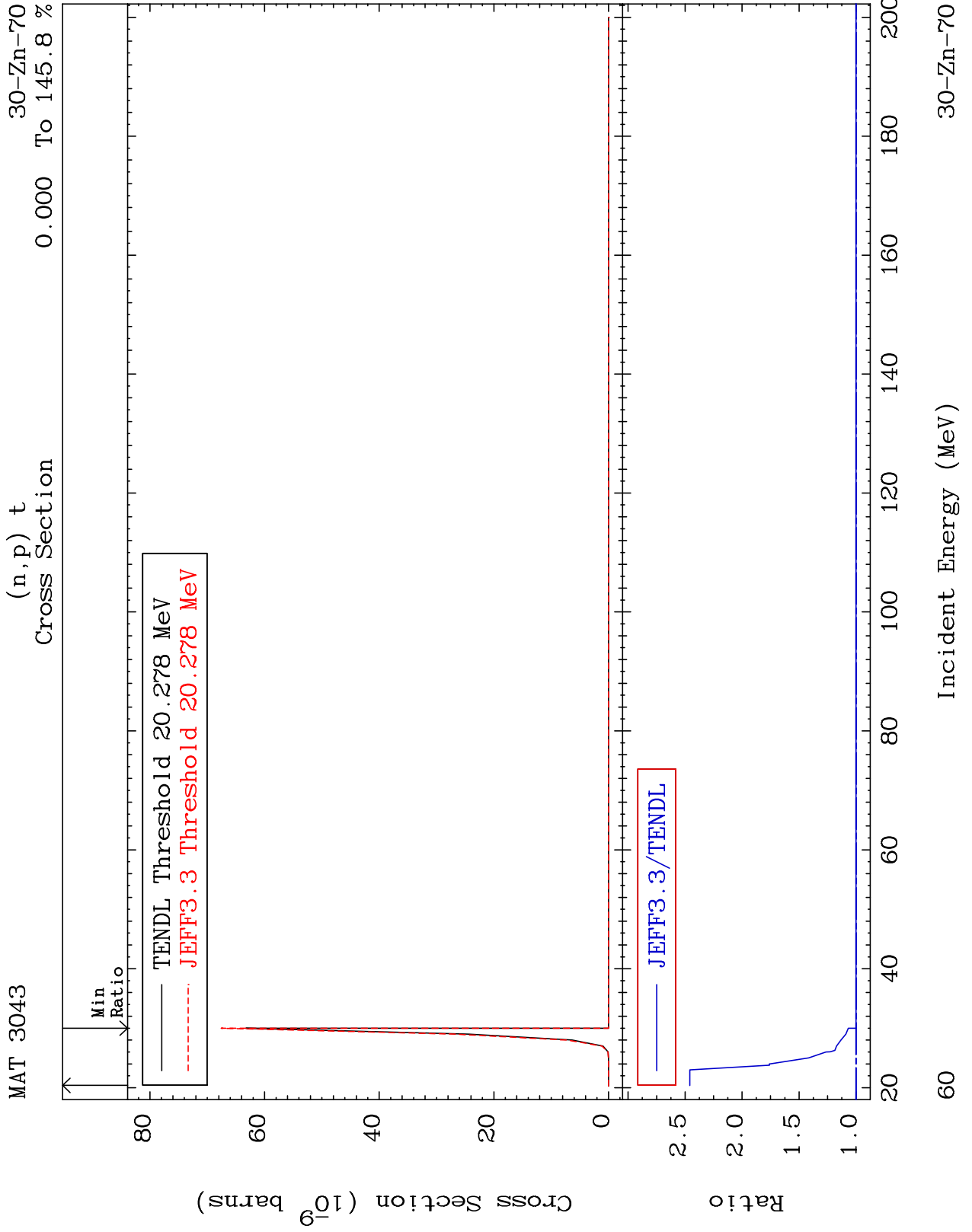
(n,p) d

30-Zn-70

Cross Section

-1.608 To 129.5 %





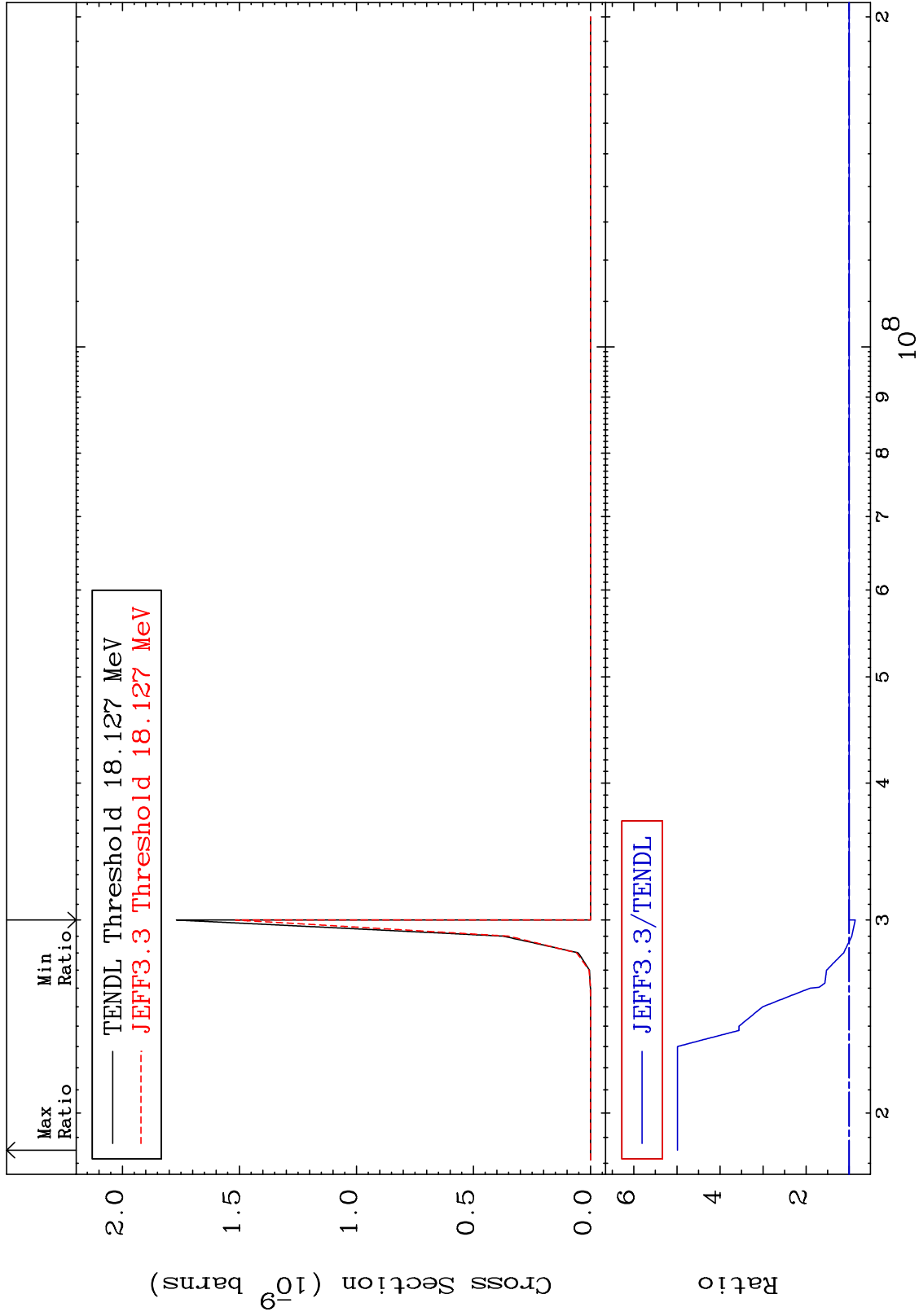
MAT 3043

(n,d) α

30-Zn-70

Cross Section

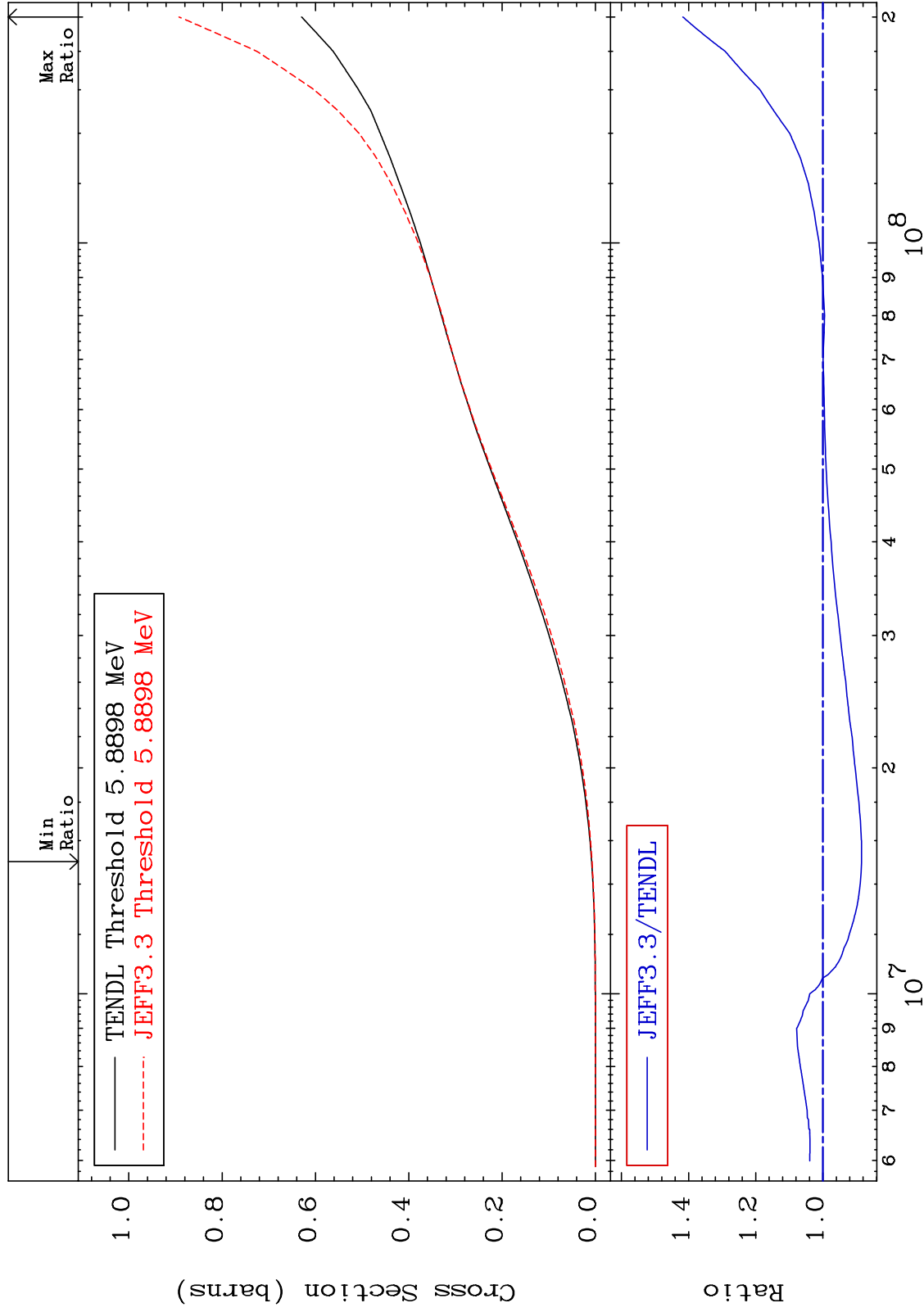
-14.26 To 398.6 %



MAT 3043

Hydrogen Production
Cross Section

30-Zn-70
-11.53 To 41.71 %



62

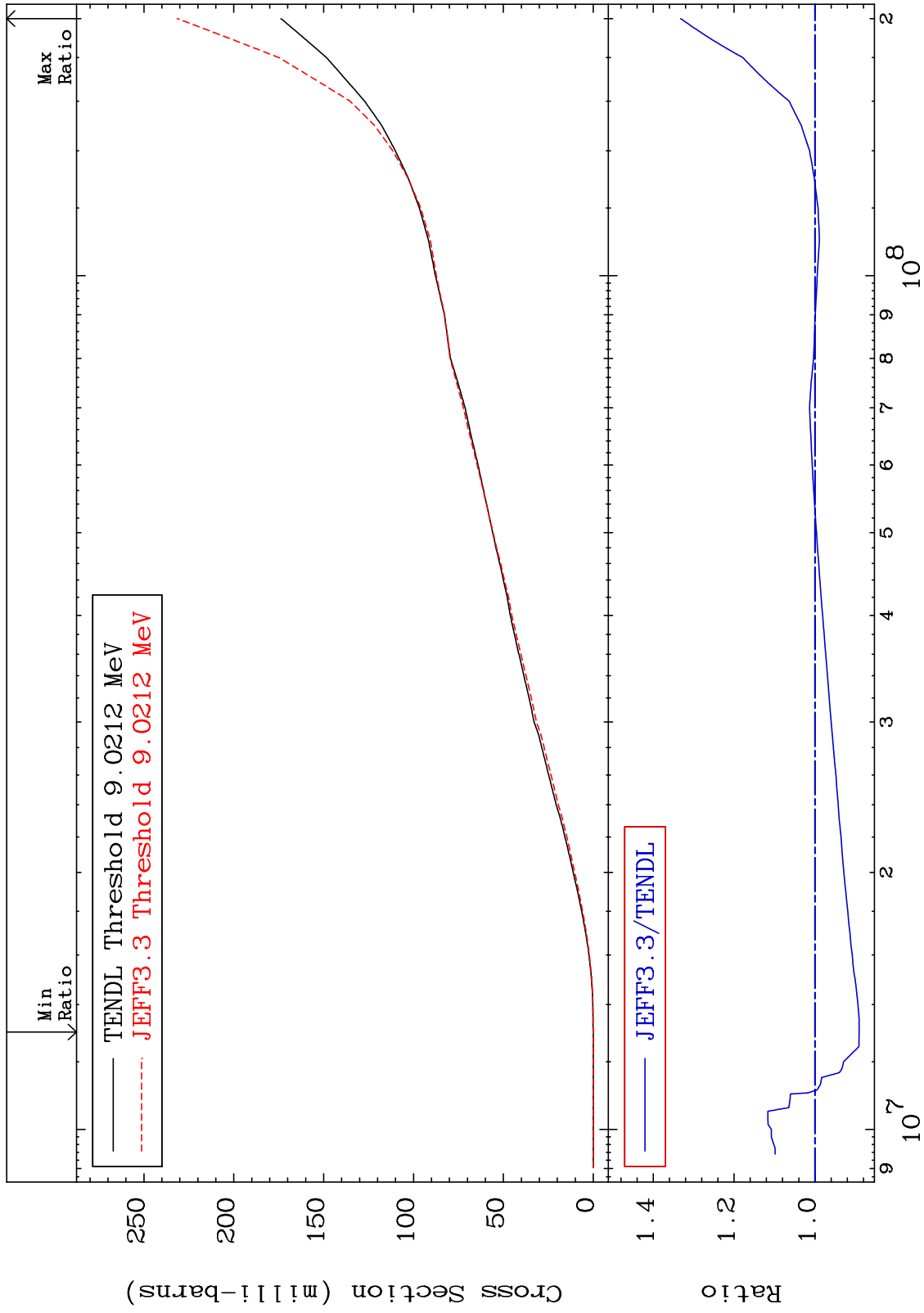
Incident Energy (eV)

30-Zn-70

MAT 3043

Deuterium Production
Cross Section

30-Zn-70
-10.94 To 33.23 %



63

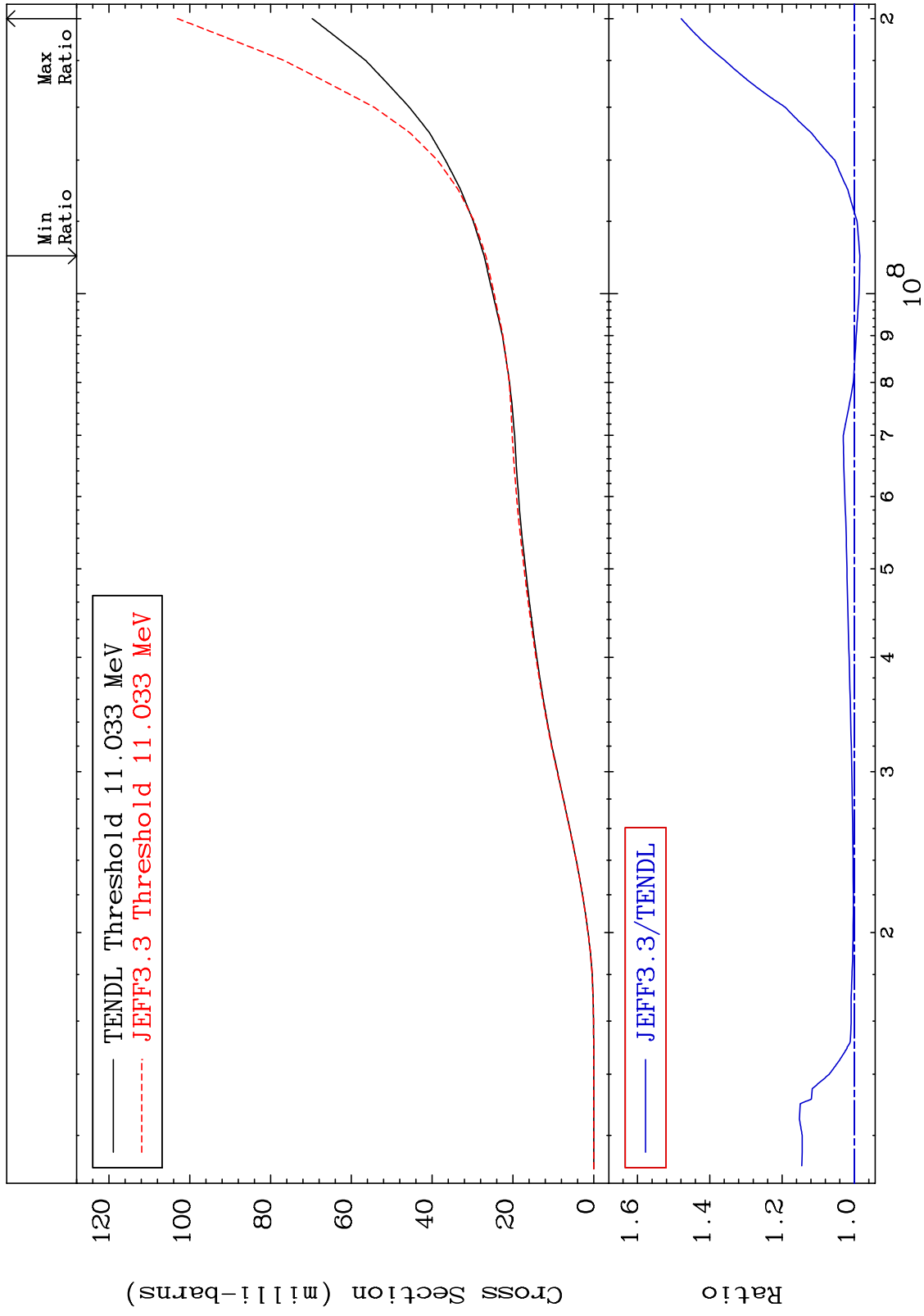
Incident Energy (eV)

30-Zn-70

MAT 3043

Tritium Production
Cross Section

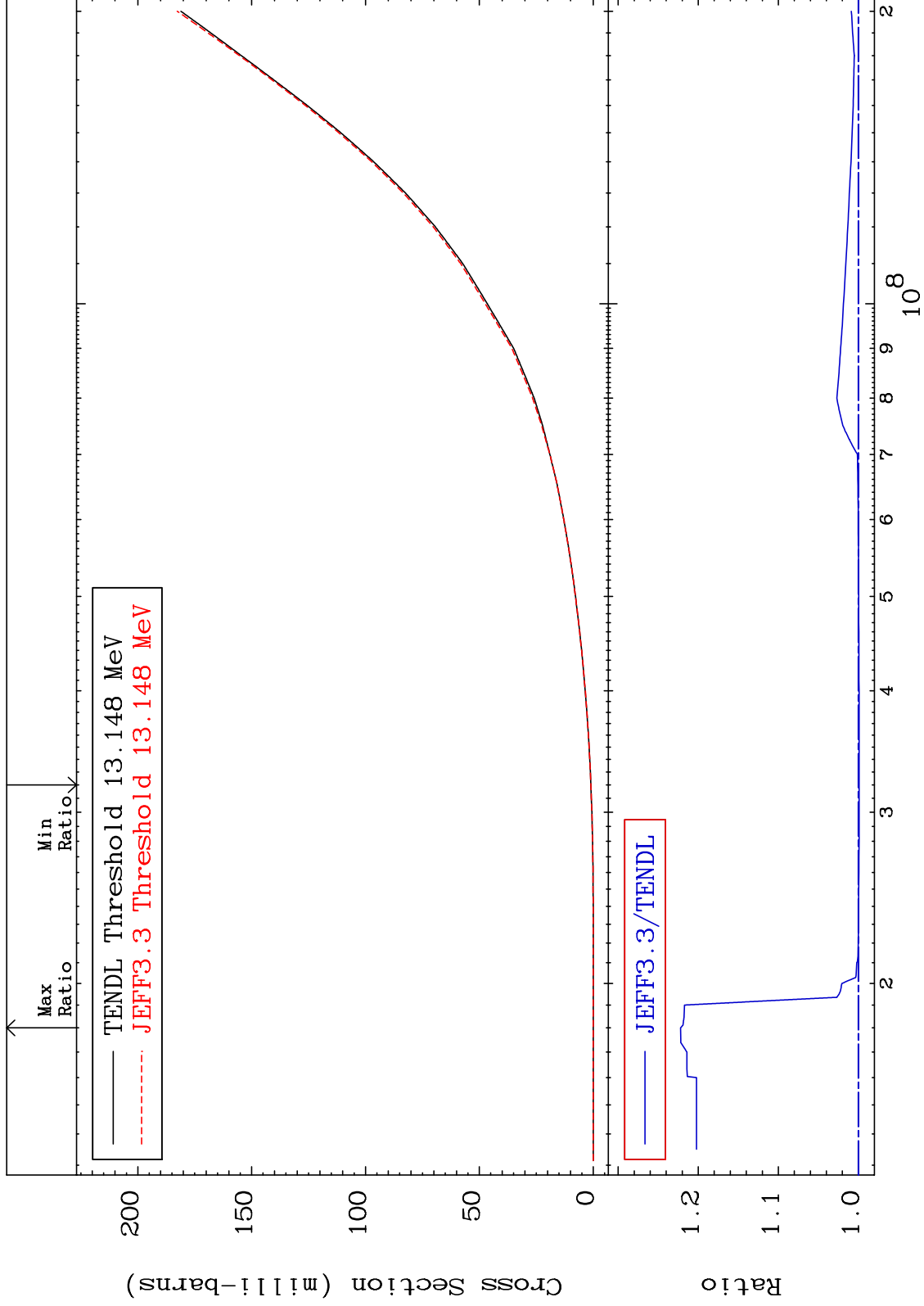
30-Zn-70
-1.558 To 47.91 %



MAT 3043

He-3 Production
Cross Section

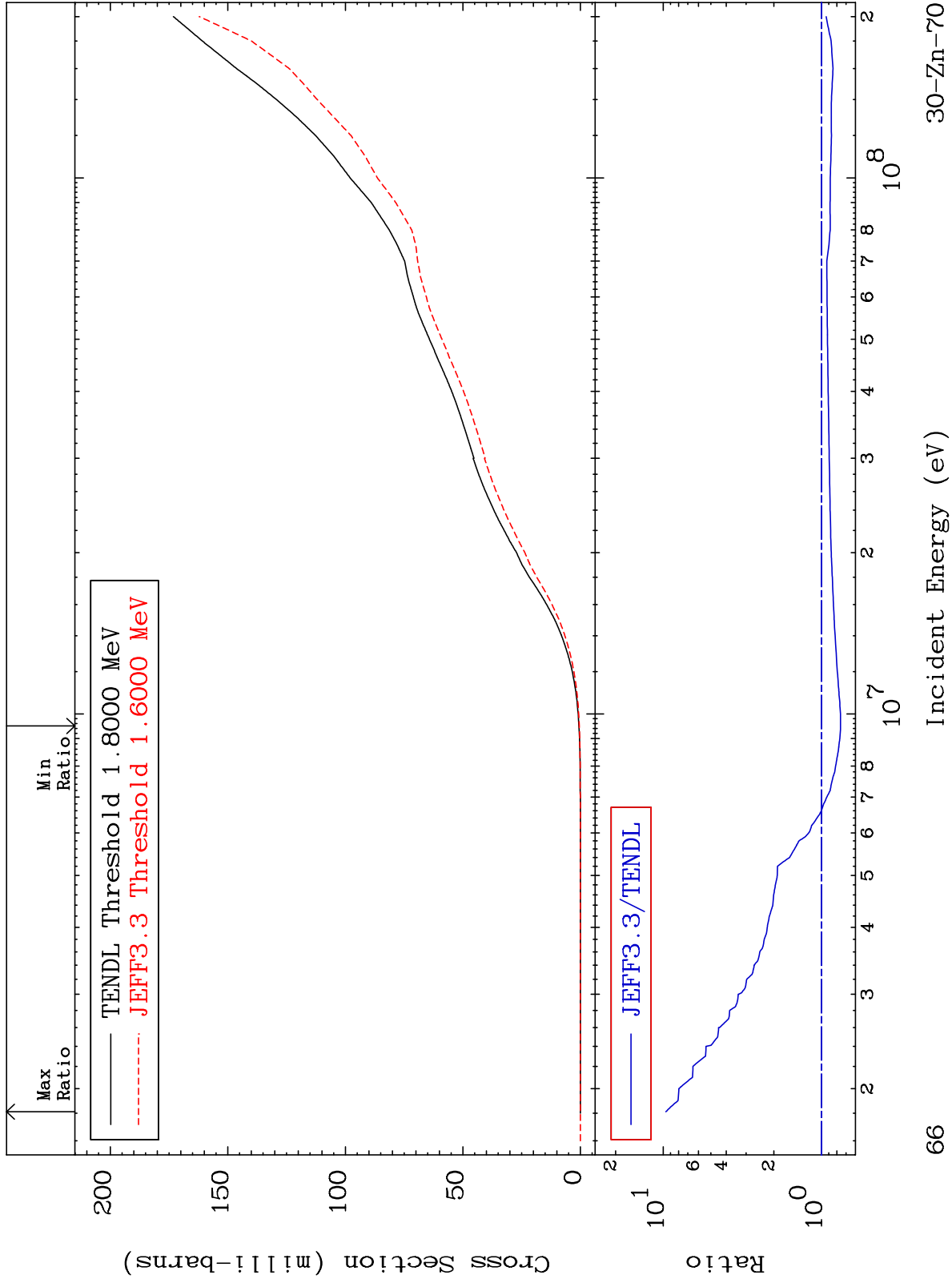
30-Zn-70
-0.091 To 22.20 %



MAT 3043

He-4 Production
Cross Section

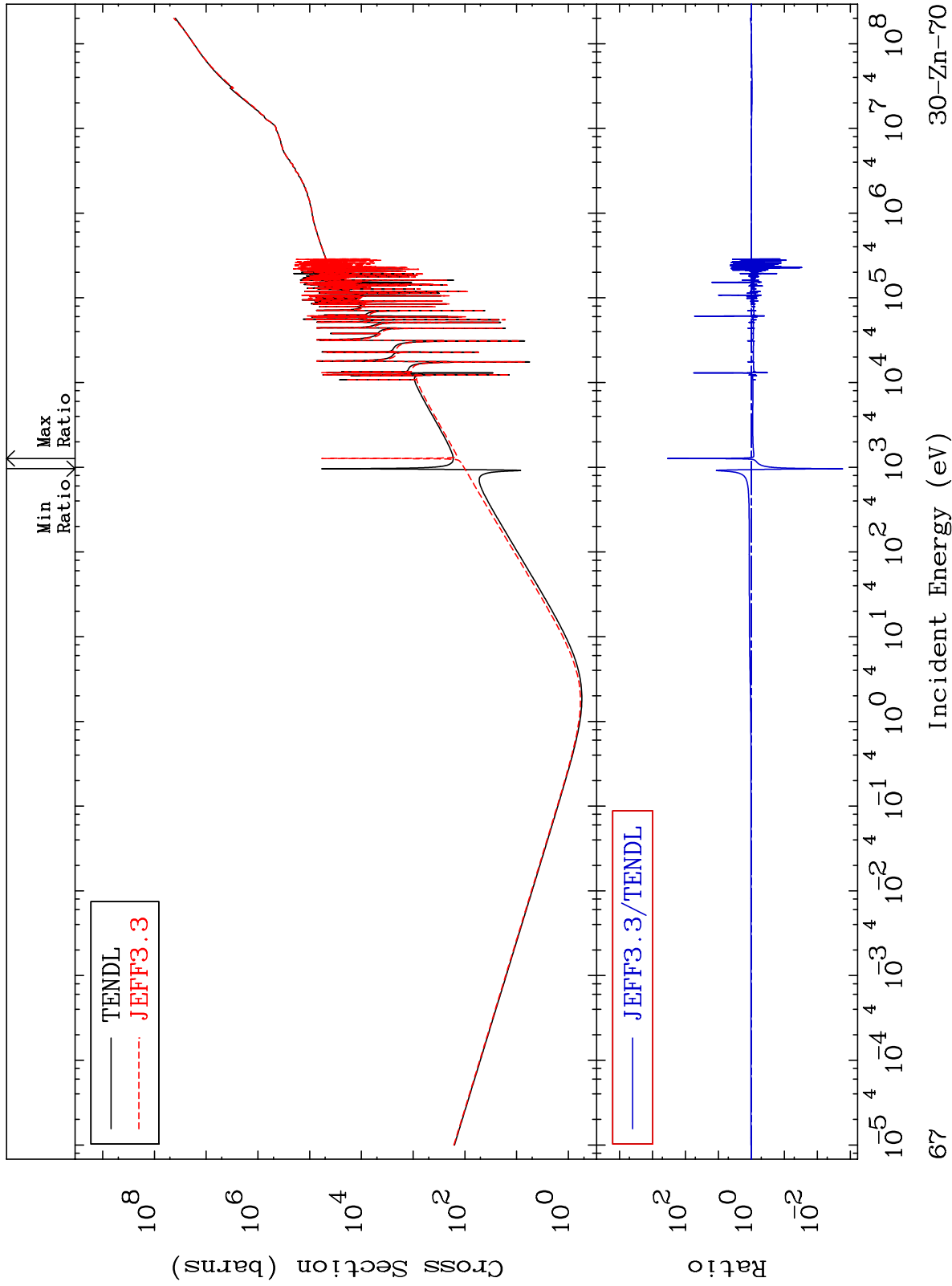
30-Zn-70
-24.11 To 863.1 %



MAT 3043

Kerma total (eV-barns)
Cross Section

30-Zn-70
-99.83 To 9999. %



67

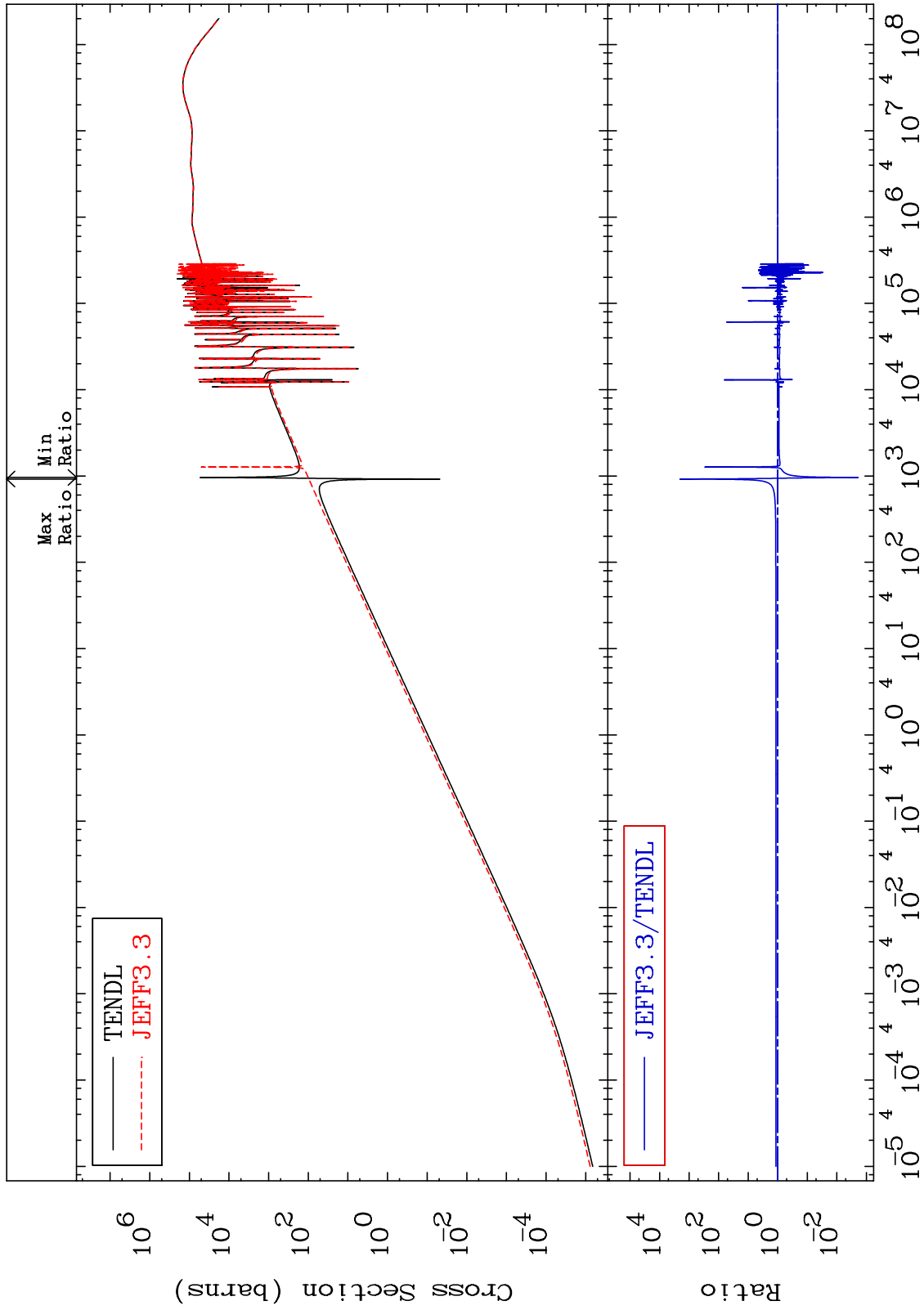
Incident Energy (eV)

30-Zn-70

MAT 3043

Kerma elastic
Cross Section

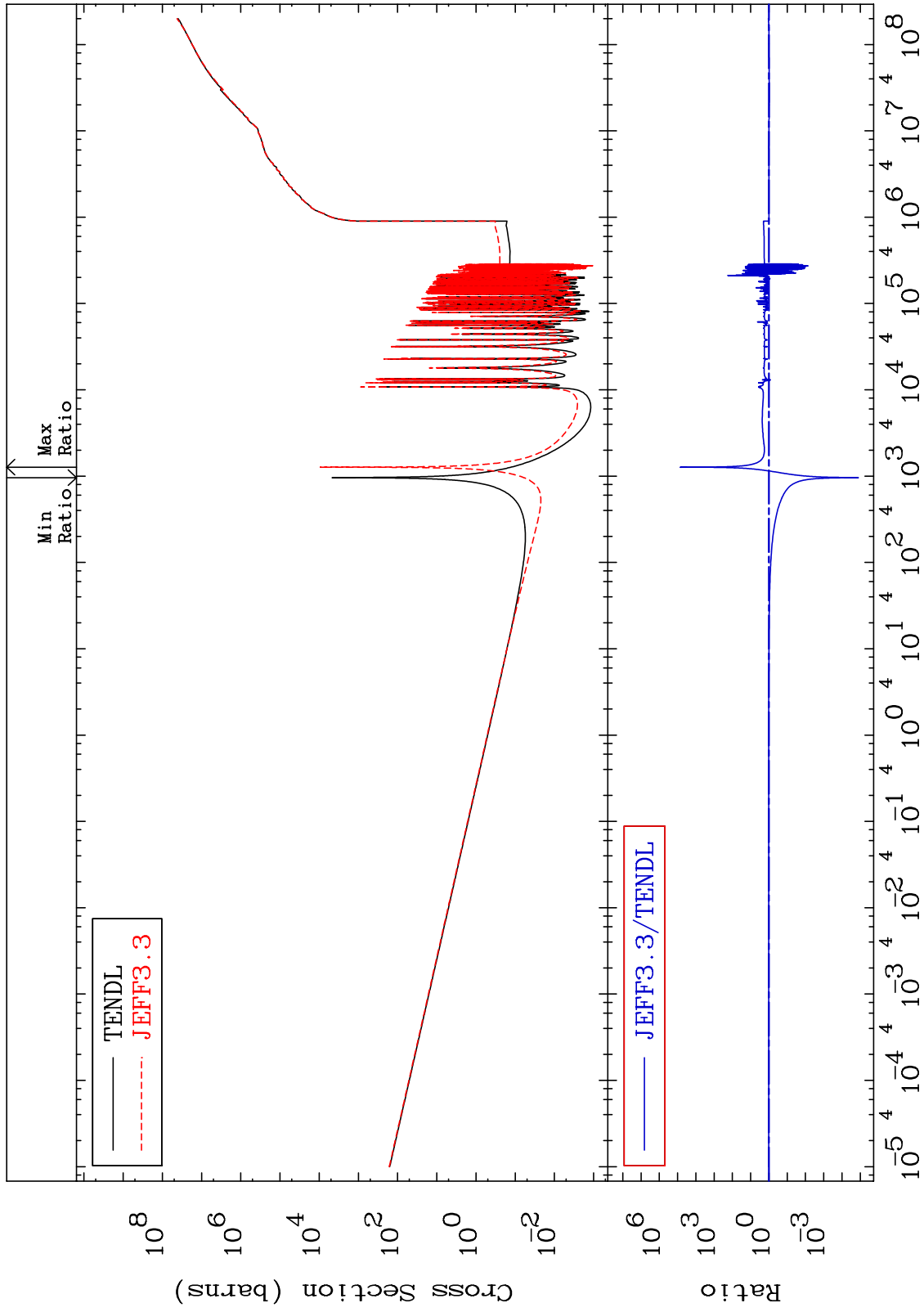
30-Zn-70
-99.81 To 9999. %



MAT 3043

Kerma non-elastic (all but mt2)
Cross Section

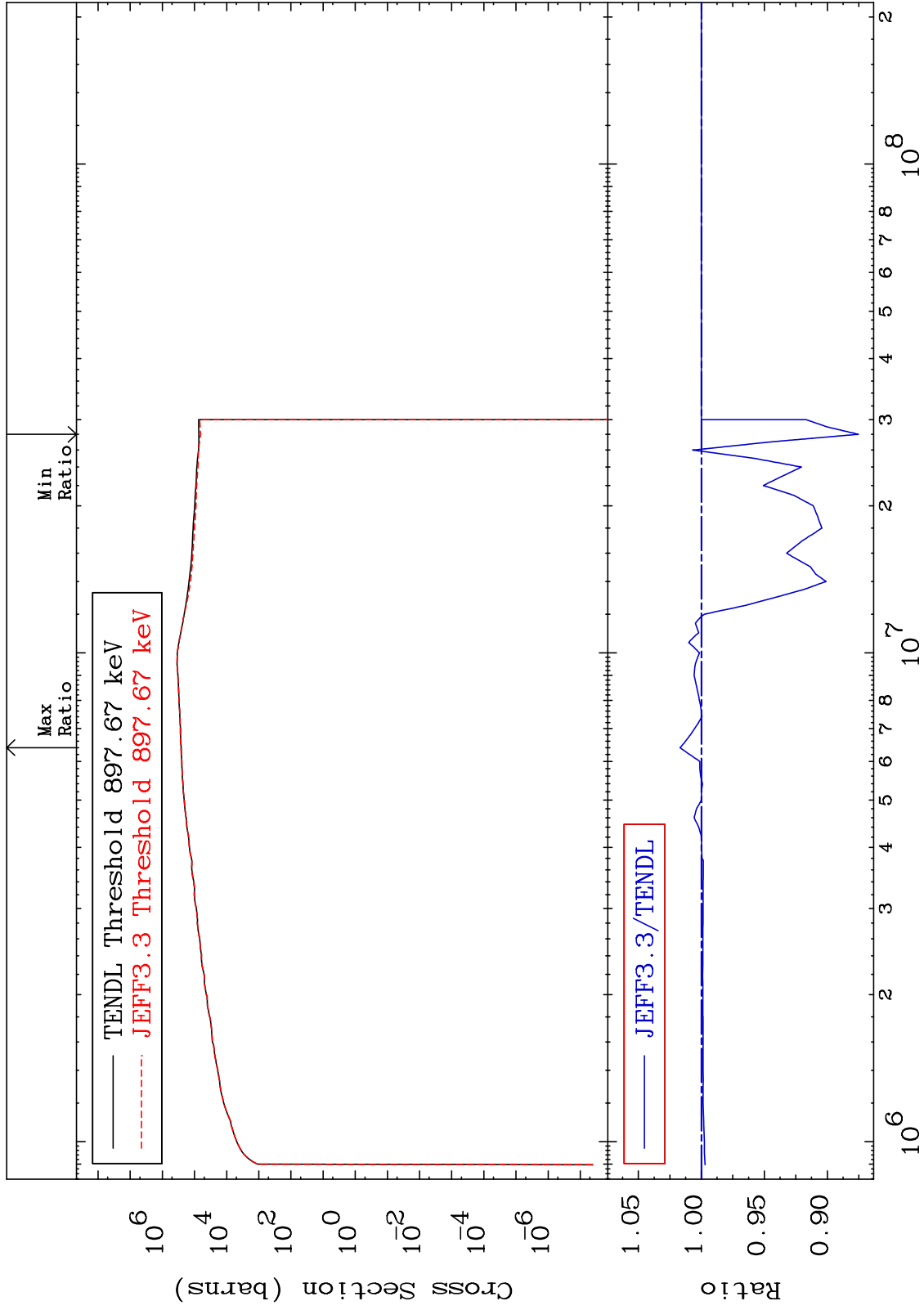
30-Zn-70
-100.0 To 9999. %



MAT 3043

Kerma inelastic (mt51-91)
Cross Section

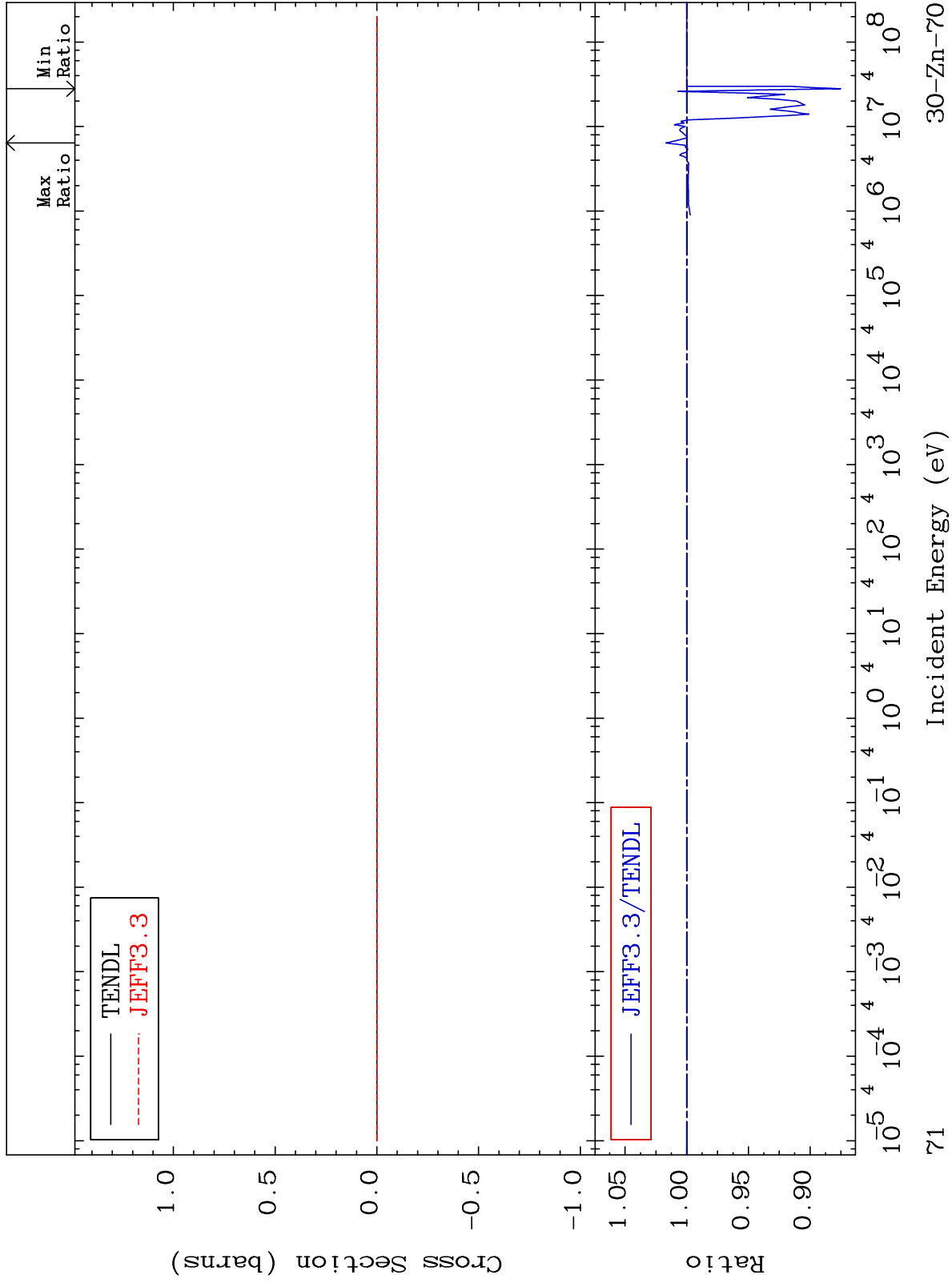
30-Zn-70
-12.47 To 1.694 %



MAT 3043

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

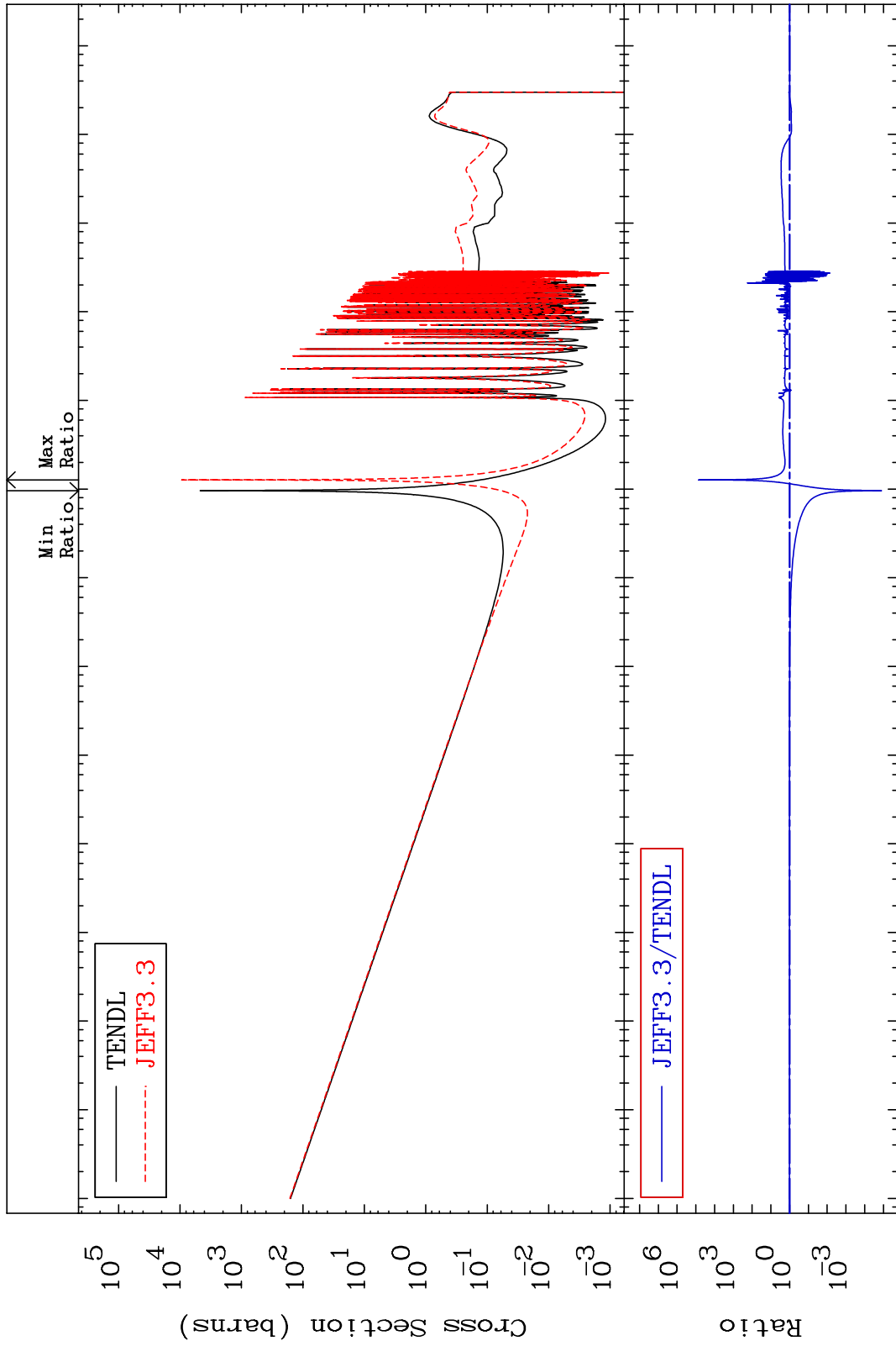
30-Zn-70
-12.47 To 1.694 %



MAT 3043

Kerma capture (mt102)
Cross Section

30-Zn-70
-100.0 To 9999. %



72

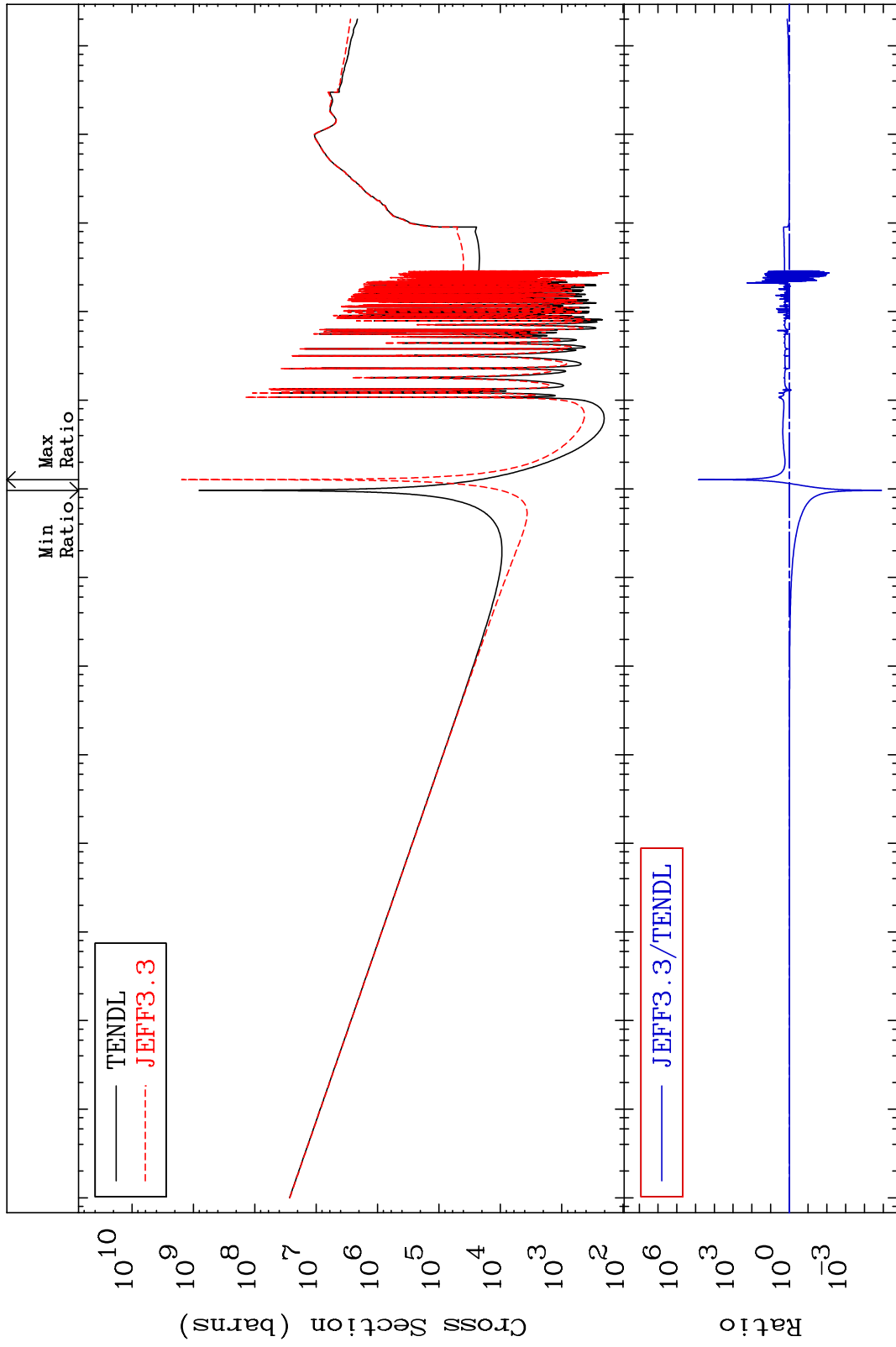
Incident Energy (eV)

30-Zn-70

MAT 3043

Total photon (eV-barns)
Cross Section

30-Zn-70
-100.0 To 9999. %



73

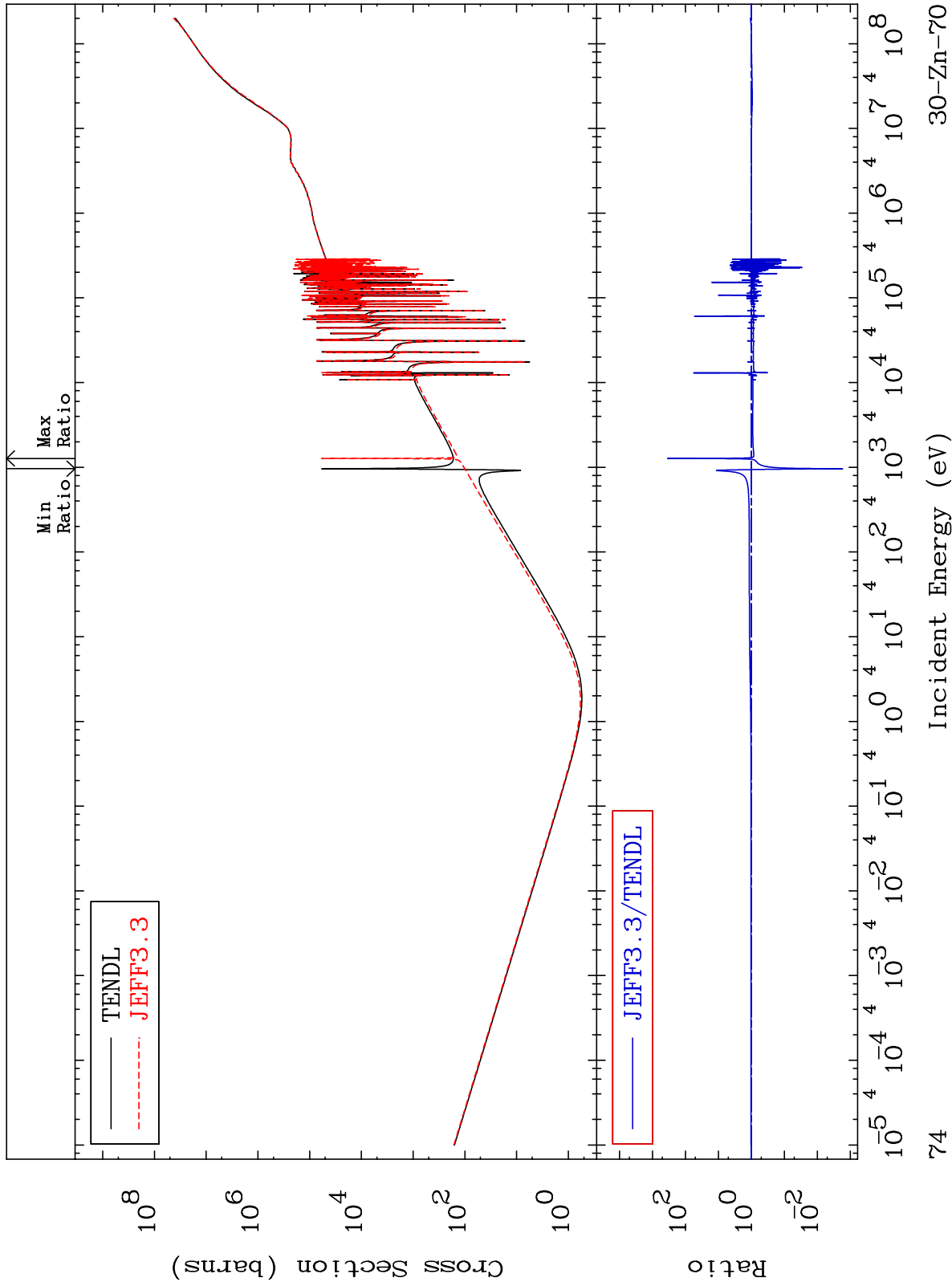
Incident Energy (eV)

30-Zn-70

MAT 3043

Total kinematic kerma (high limit)
Cross Section

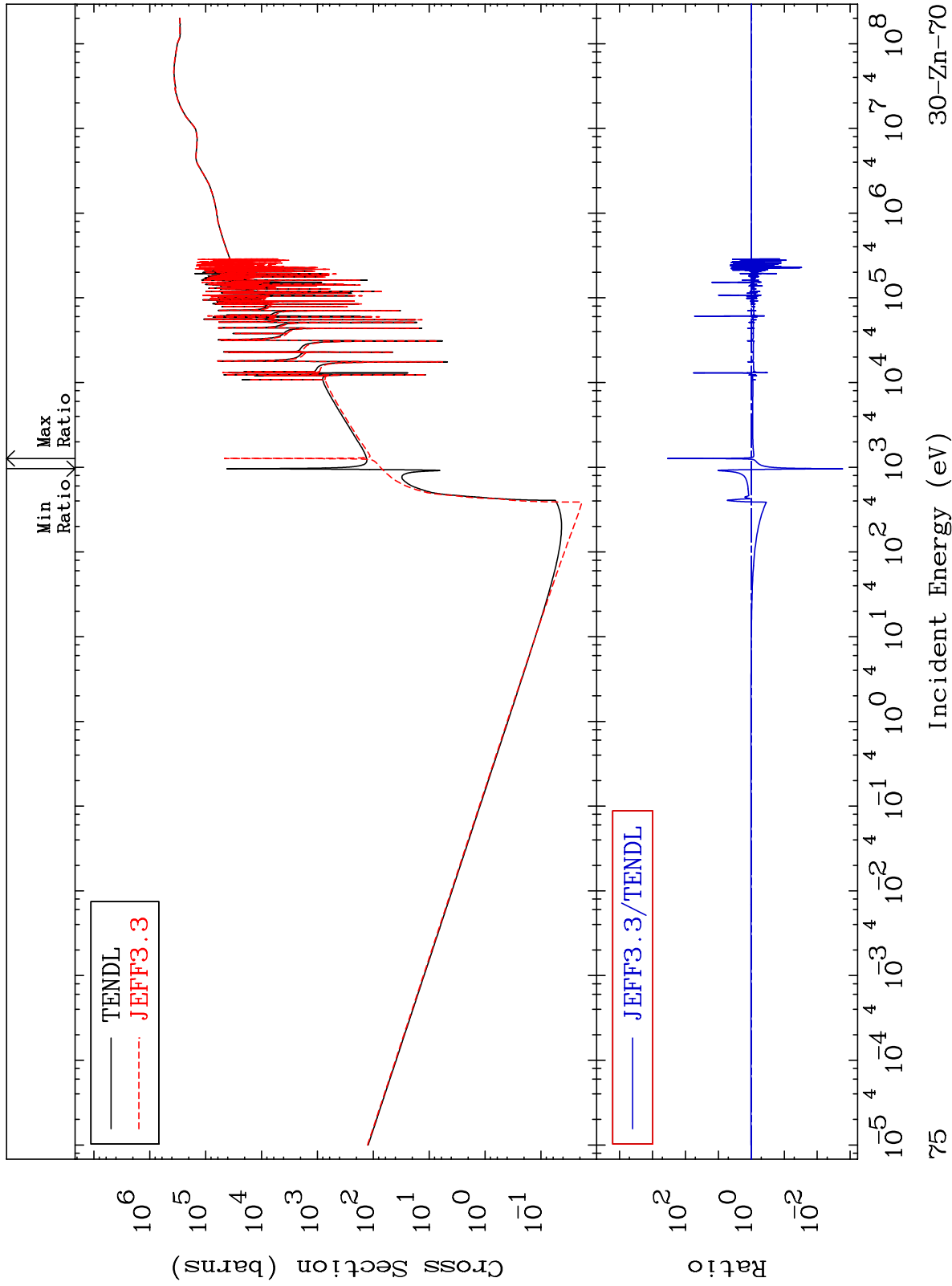
30-Zn-70
-99.83 To 9999. %



MAT 3043

Dpa total (eV-barns)
Cross Section

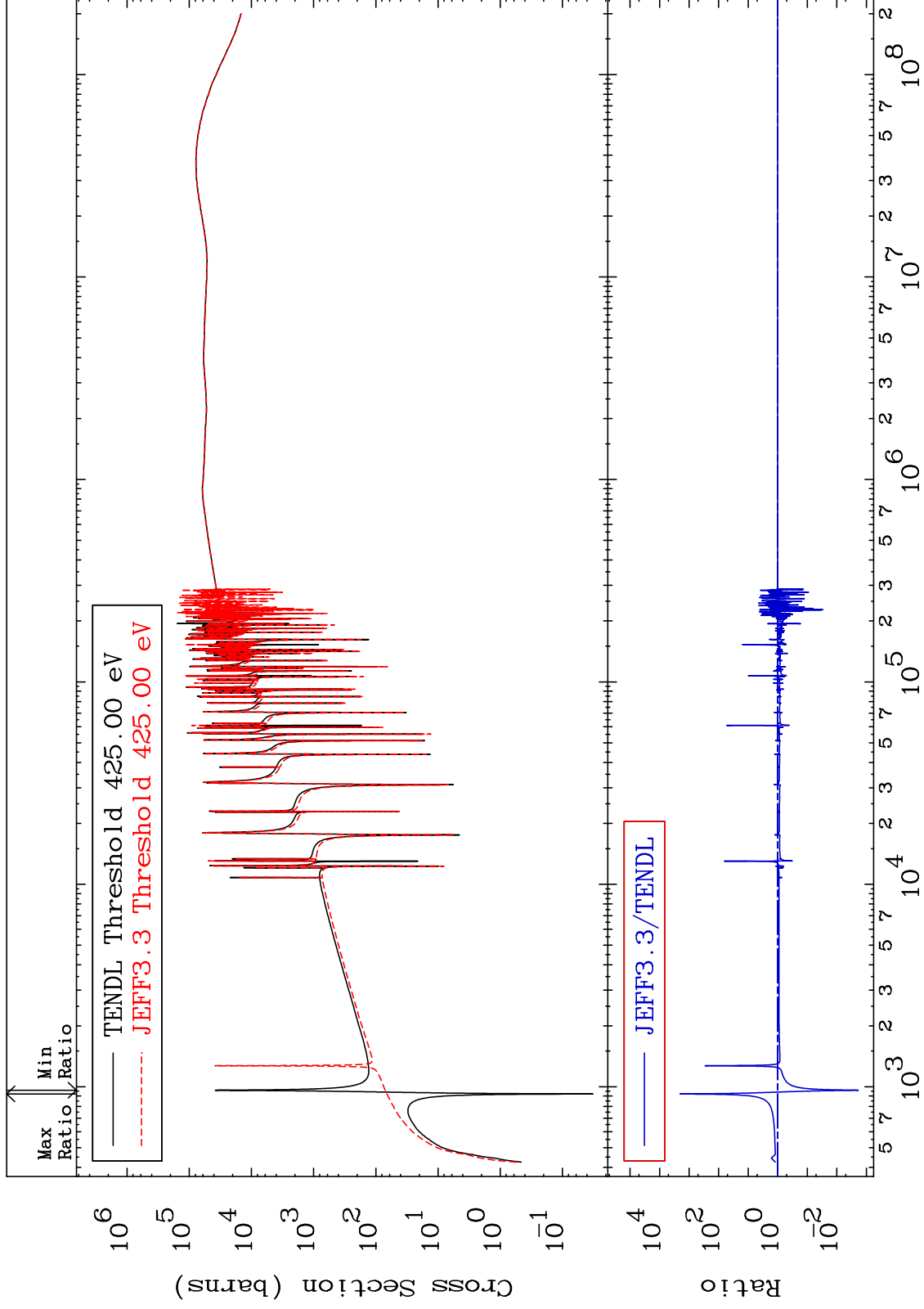
30-Zn-70
-99.83 To 9999. %



MAT 3043

Dpa elastic (mt2)
Cross Section

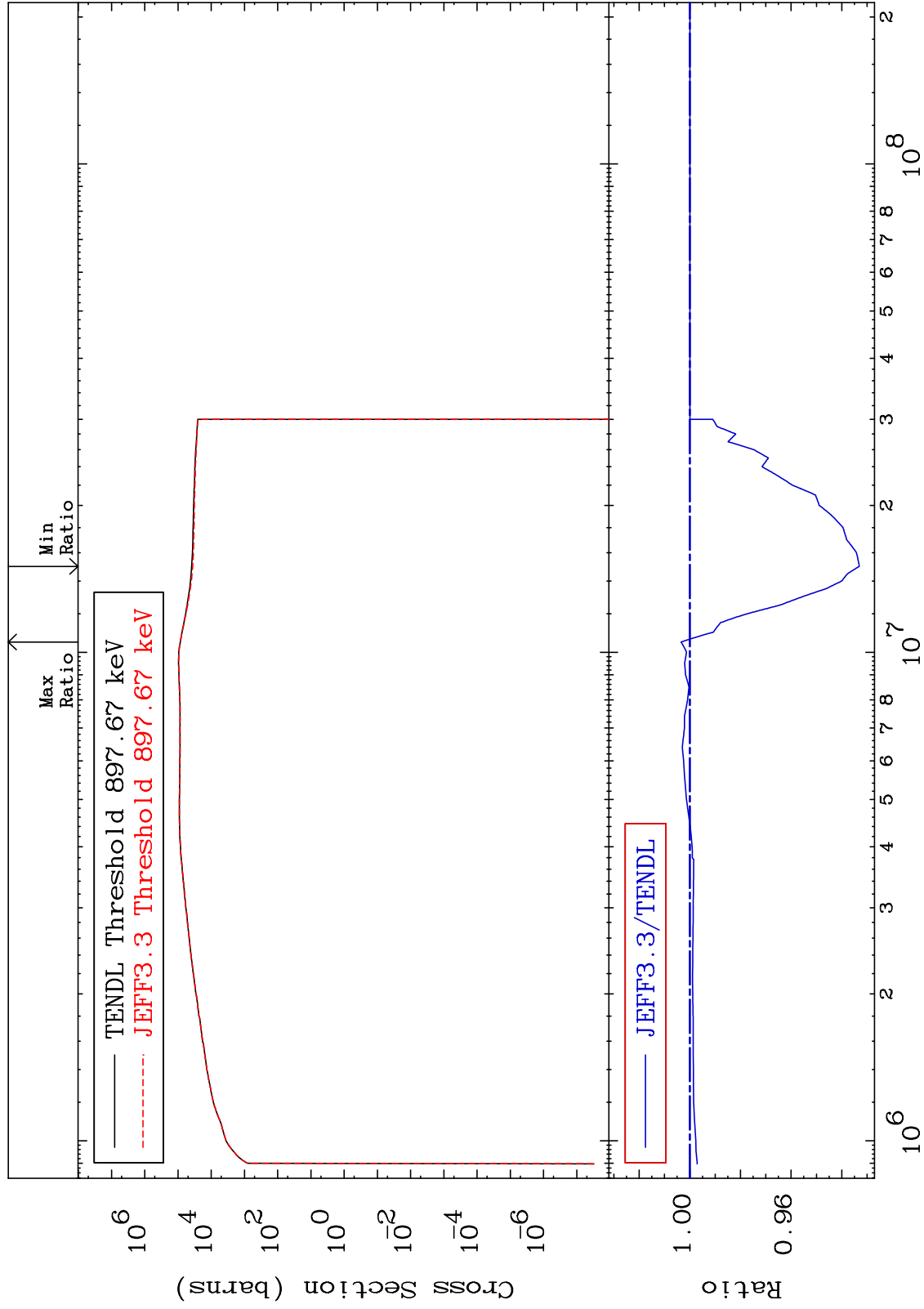
30-Zn-70
-99.81 To 9999. %



MAT 3043

Dpa inelastic (mt51-91)
Cross Section

30-Zn-70
-6.692 To 0.346 %



77

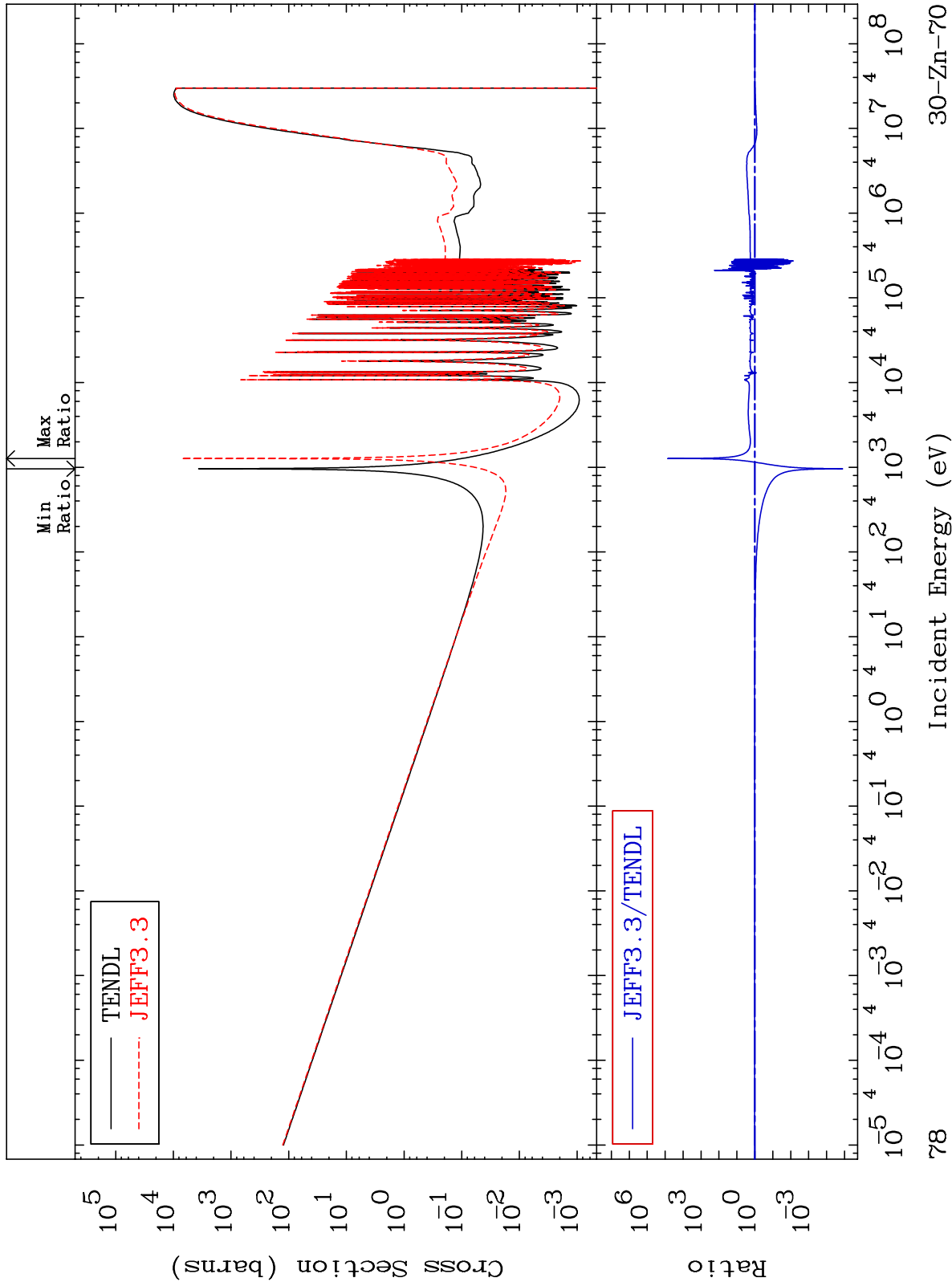
Incident Energy (eV)

30-Zn-70

MAT 3043

Dpa disappearance (mt102 -120)
Cross Section

30-Zn-70
-100.0 To 9999. %

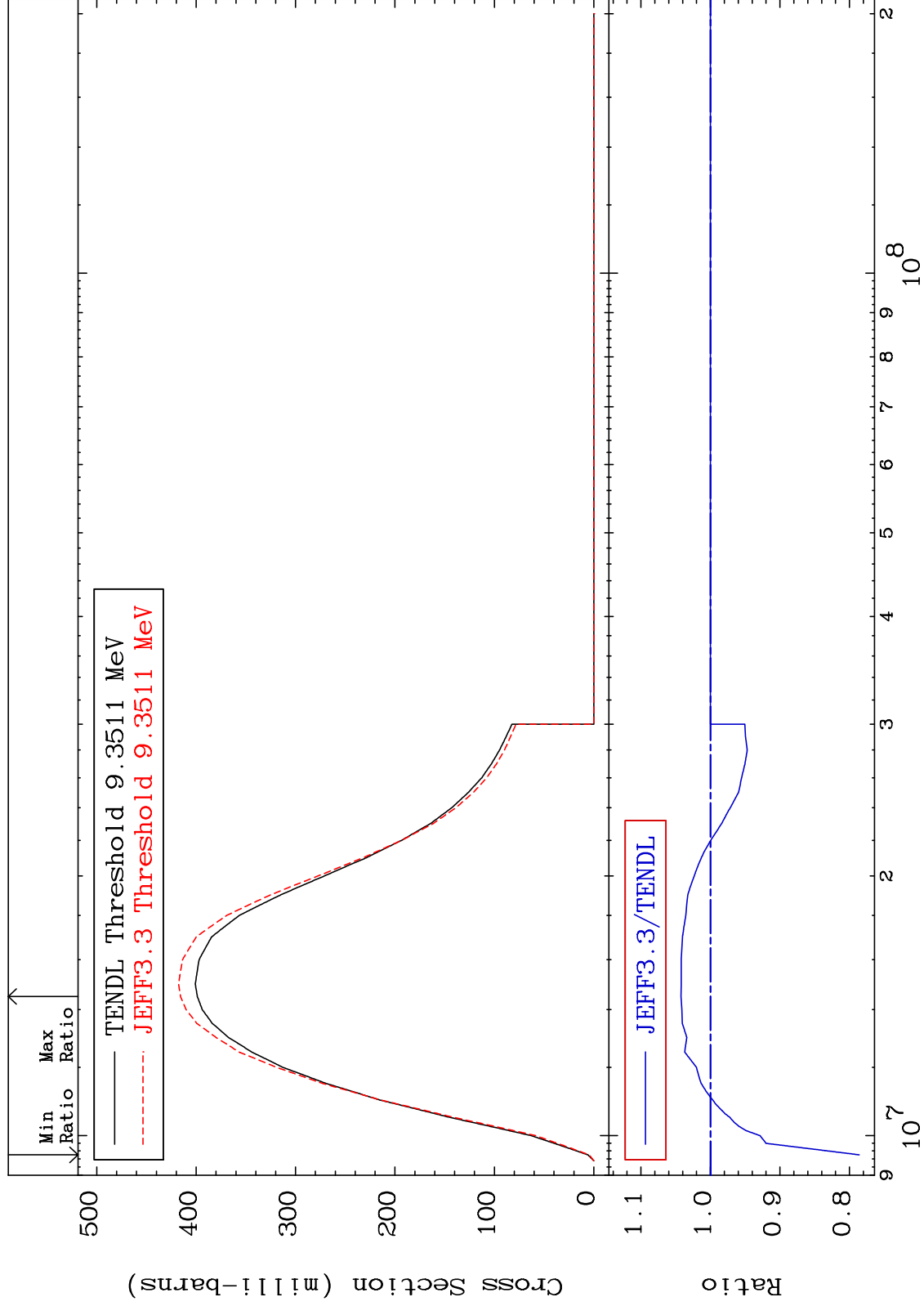


MAT 3043

(n,2n):30-Zn-69g

30-Zn-70

Radionuclide Production Cross Section -21.41 To 4.228 %



79

Incident Energy (eV)

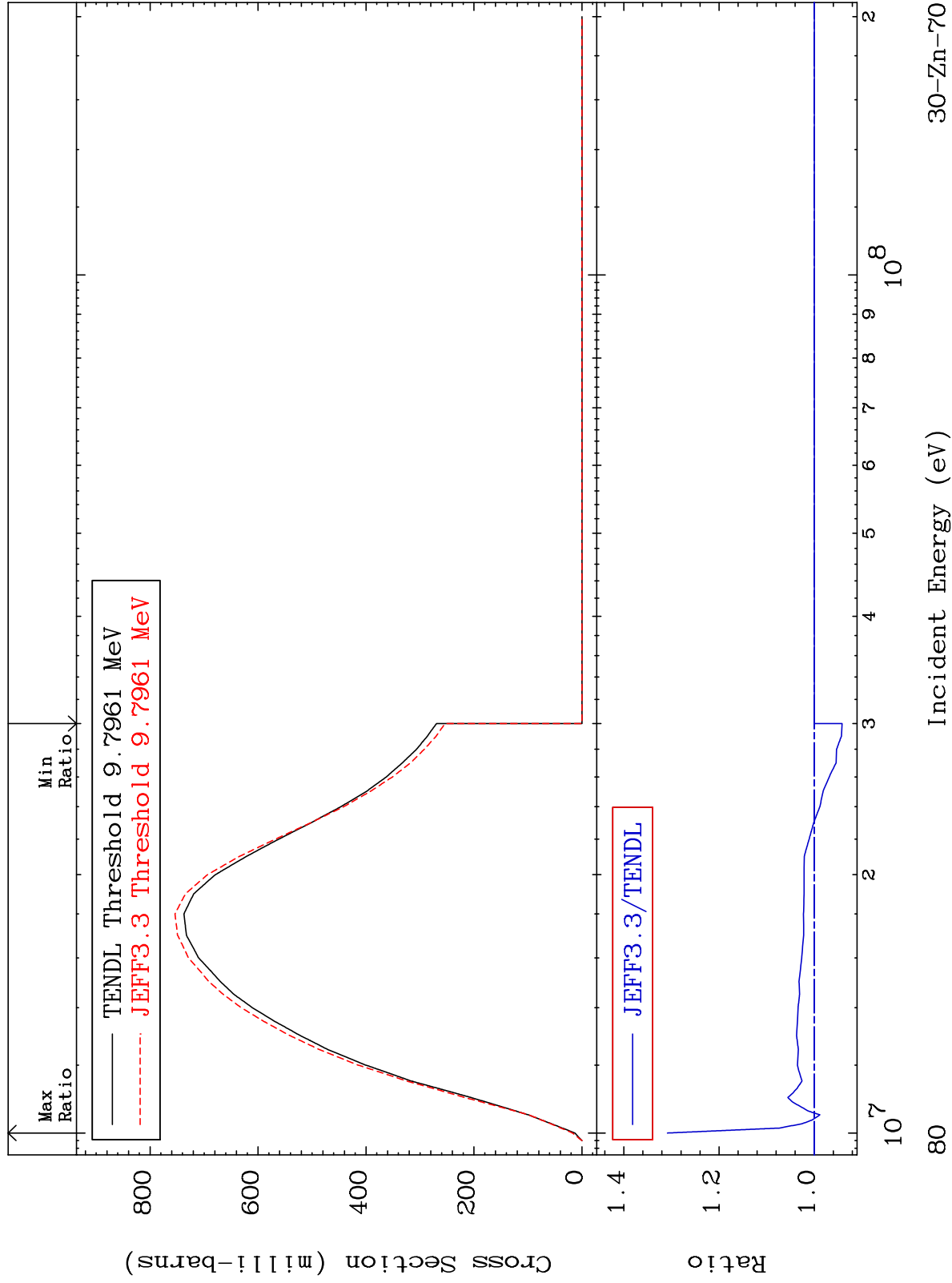
30-Zn-70

MAT 3043

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

30-Zn-70

Radionuclide Production Cross Section -5.862 To 30.84 %

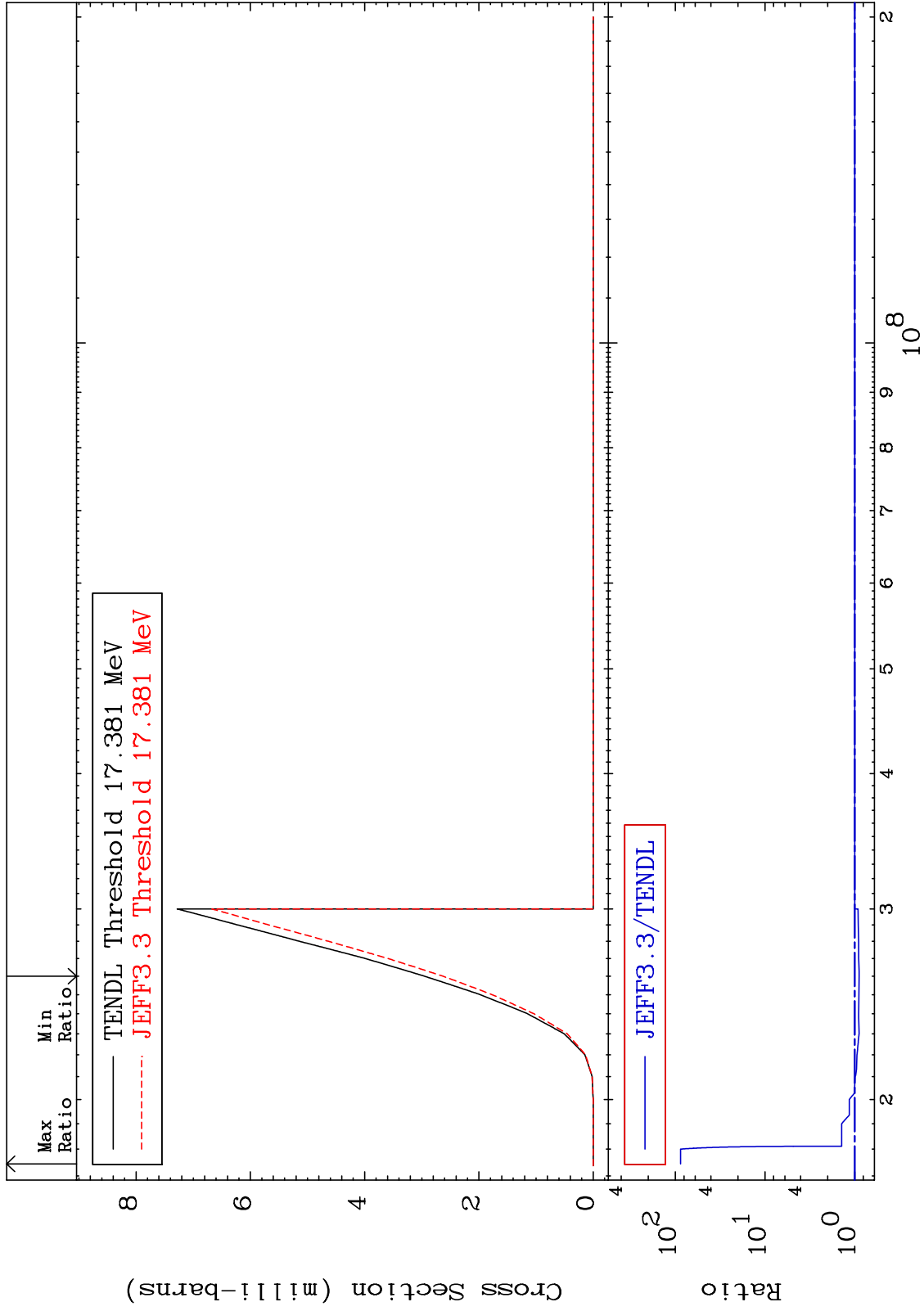


MAT 3043

(n, n') d:29-Cu-68g

30-Zn-70

Radionuclide Production Cross Section -10.93 To 8617. %

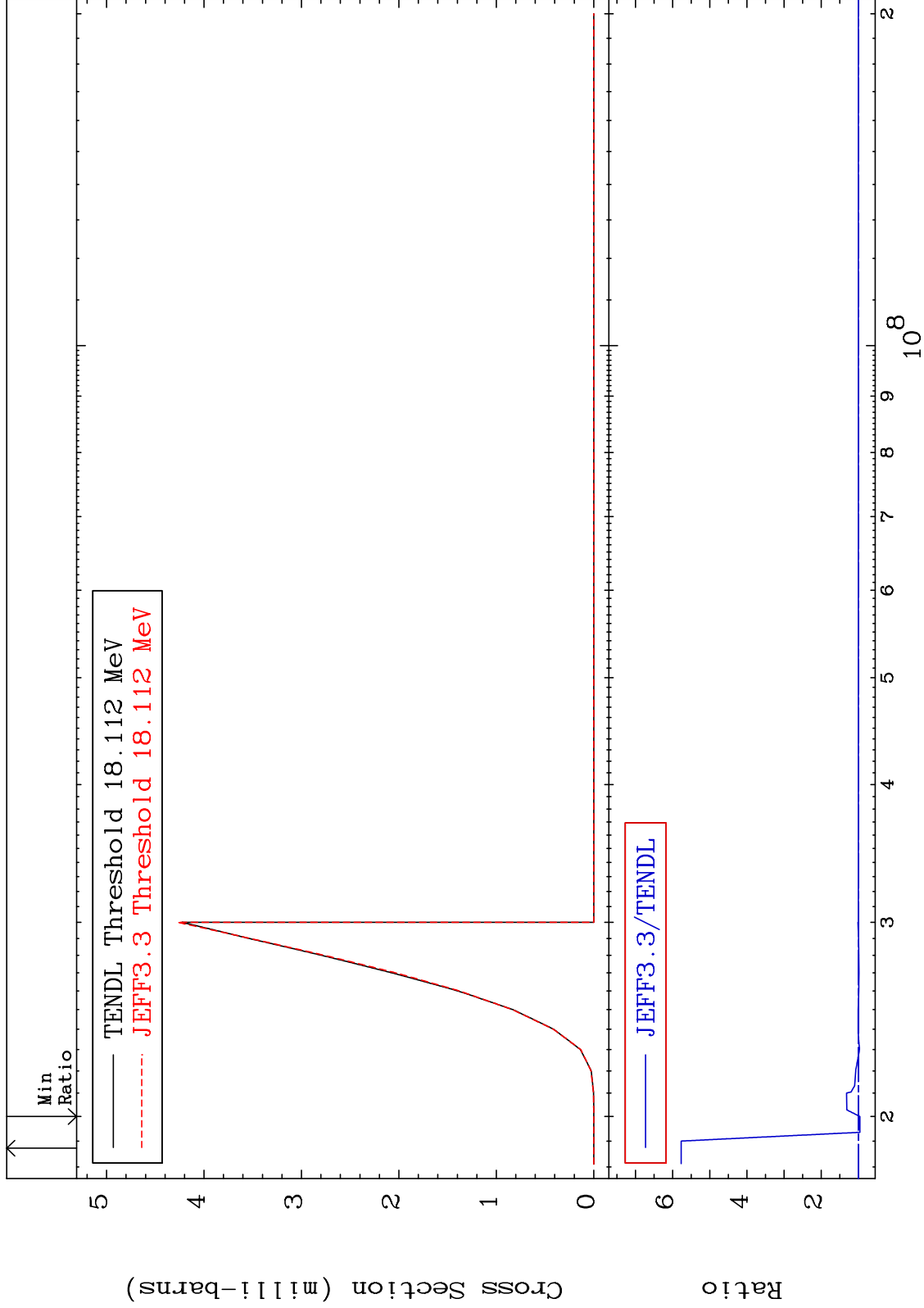


MAT 3043

(n, n') d:29-Cu-68m3

30-Zn-70

Radionuclide Production Cross Section -4.206 To 476.7 %



82

Incident Energy (eV)

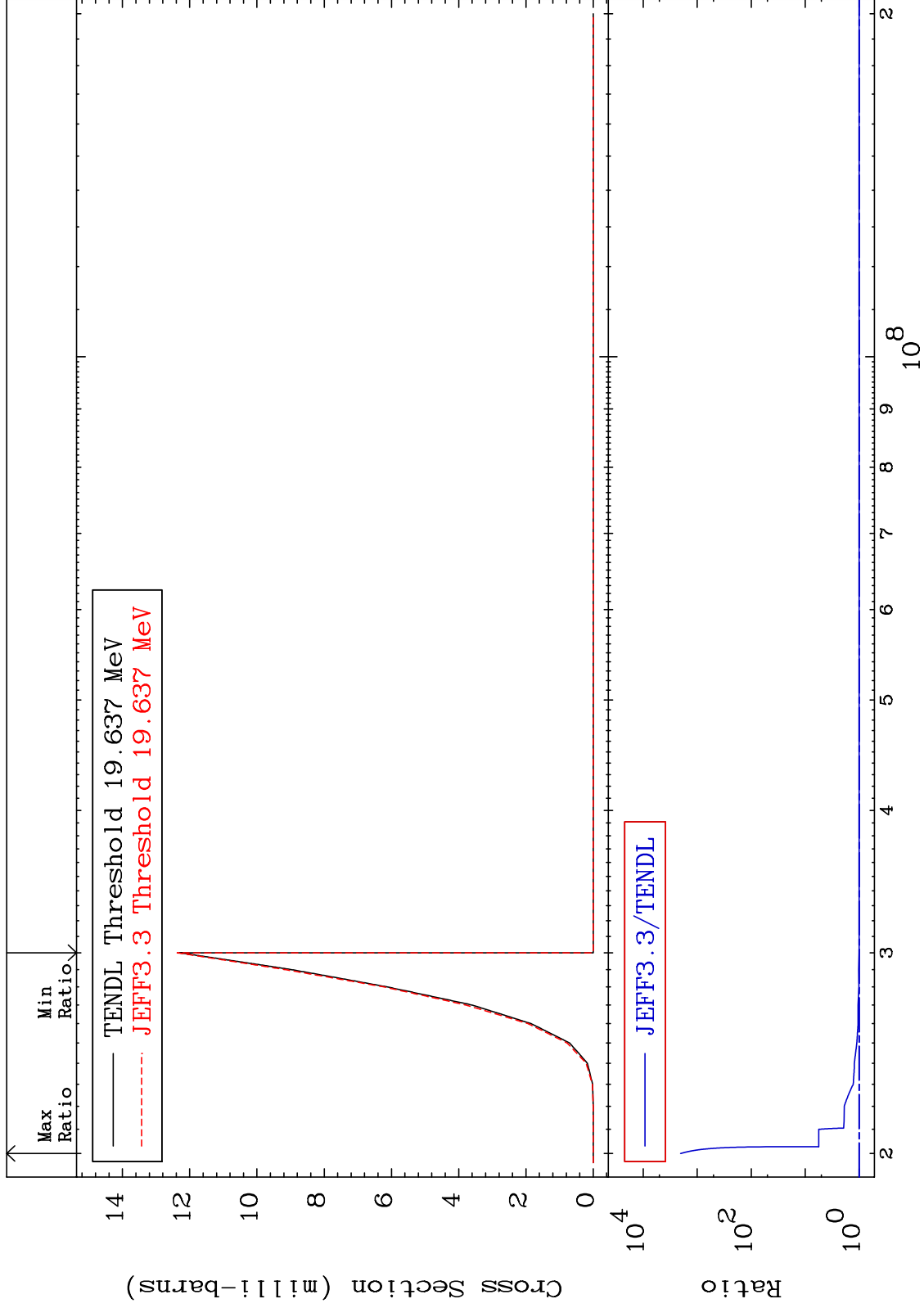
30-Zn-70

MAT 3043

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

30-Zn-70

Radionuclide Production Cross Section 0.000 To 9999. %

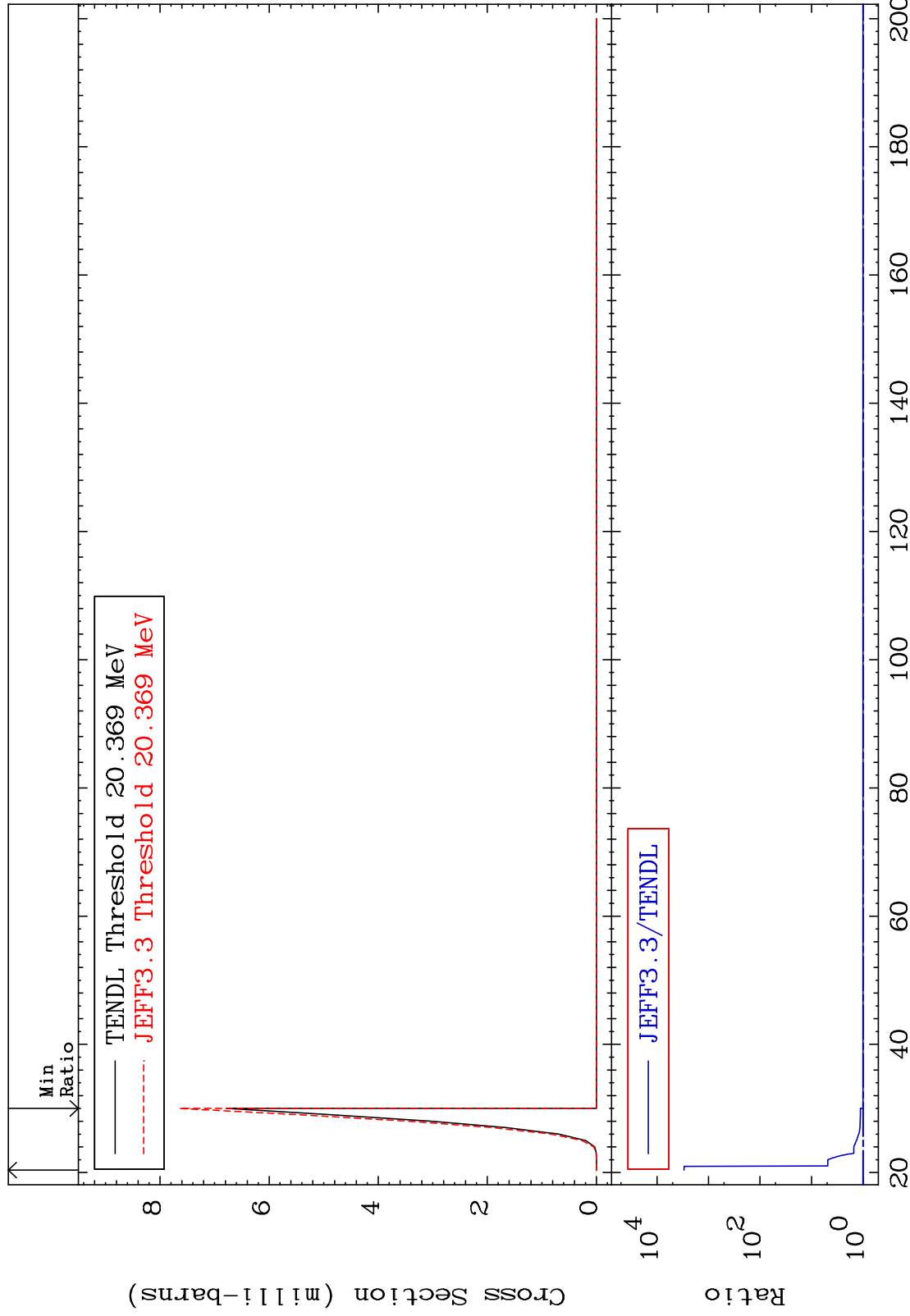


MAT 3043

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

30-Zn-70

Radionuclide Production Cross Section 0.000 To 9999. %

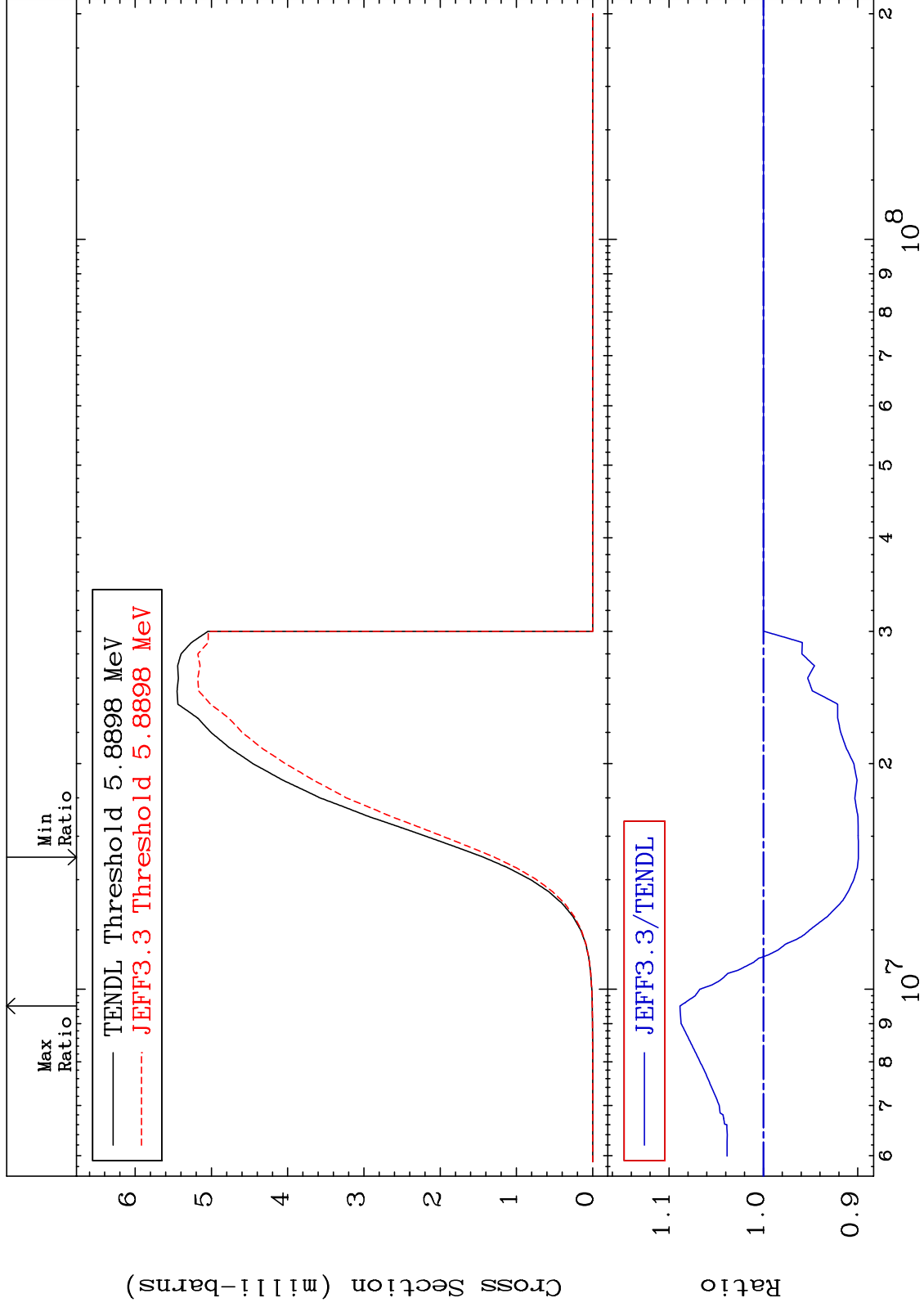


MAT 3043

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

30-Zn-70

Radionuclide Production Cross Section -10.06 To 8.838 %

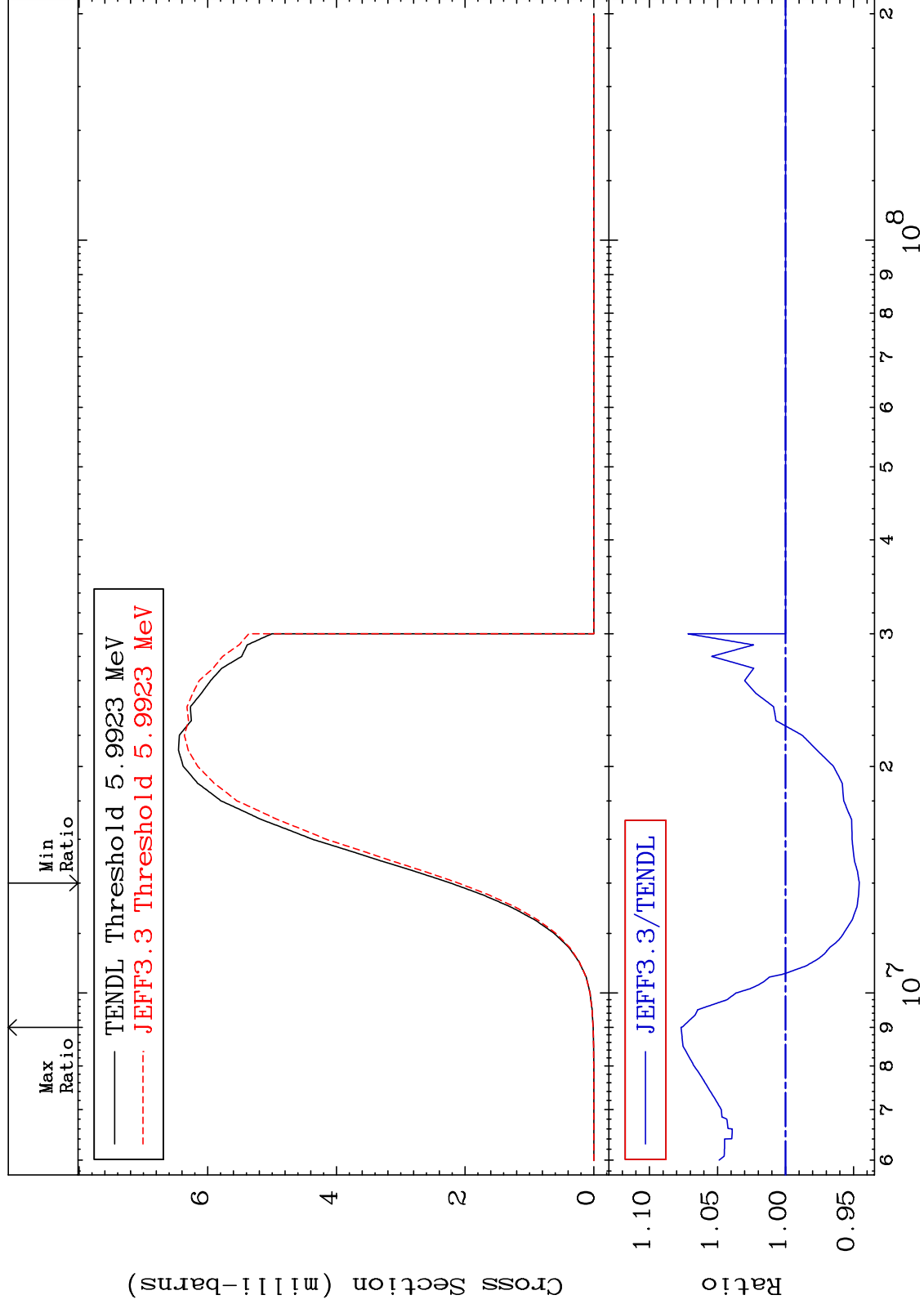


MAT 3043

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

30-Zn-70

Radionuclide Production Cross Section -5.427 To 7.679 %

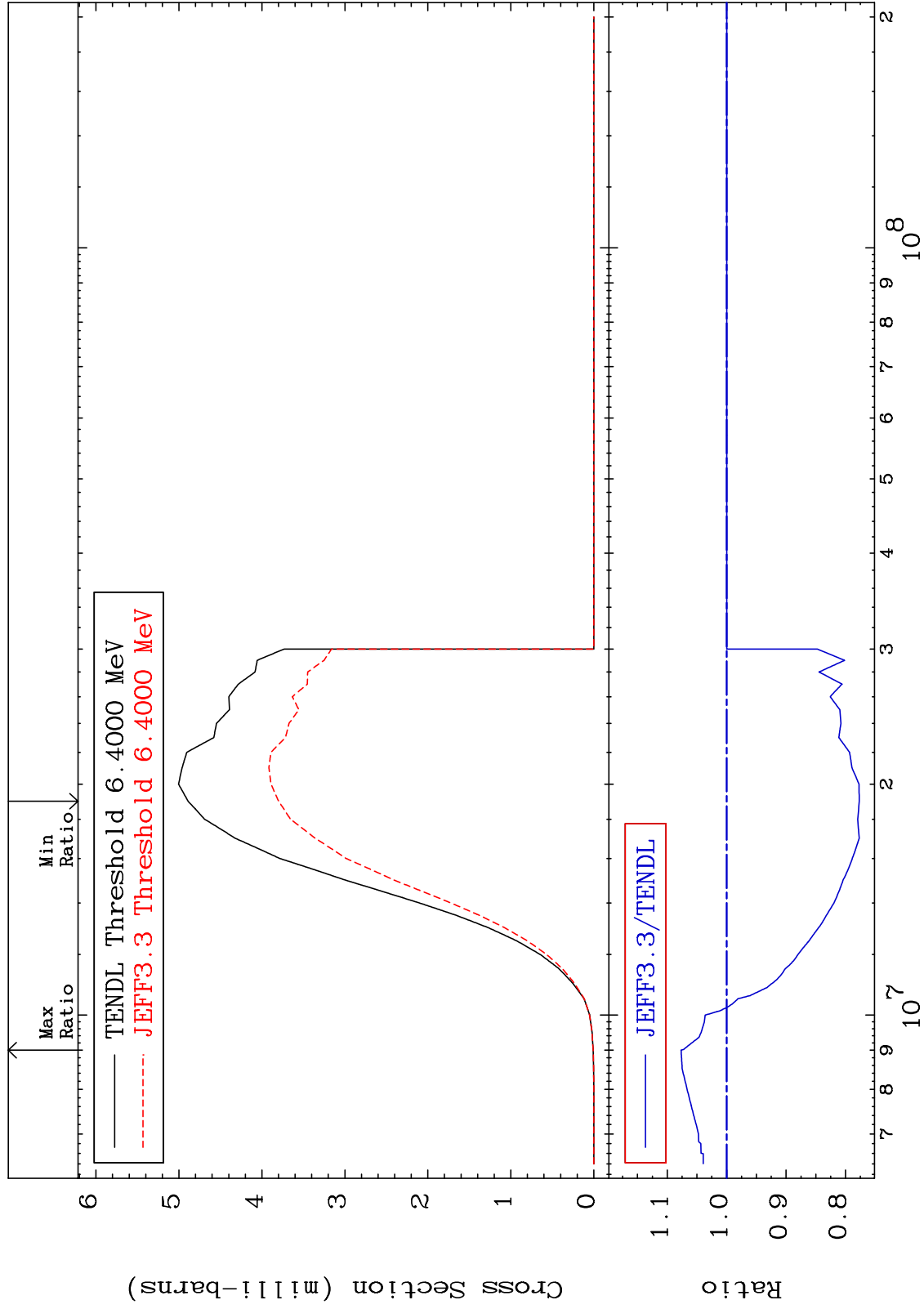


MAT 3043

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

30-Zn-70

Radionuclide Production Cross Section -22.31 To 7.674 %



87

Incident Energy (eV)

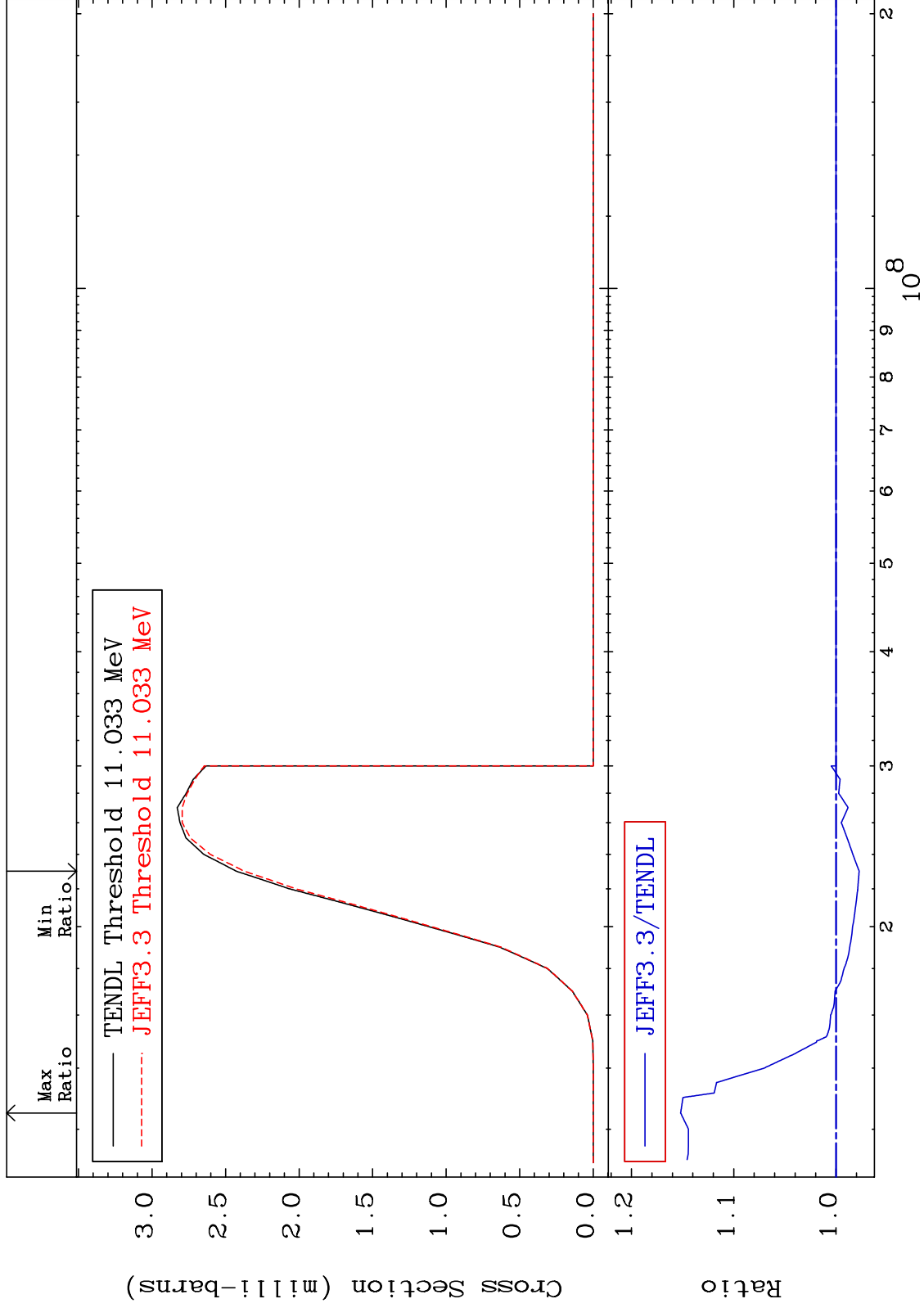
30-Zn-70

MAT 3043

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

30-Zn-70

Radionuclide Production Cross Section -2.262 To 15.20 %



MAT 3043

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

30-Zn-70

Radionuclide Production Cross Section 0.000 To 12.27 %

