

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

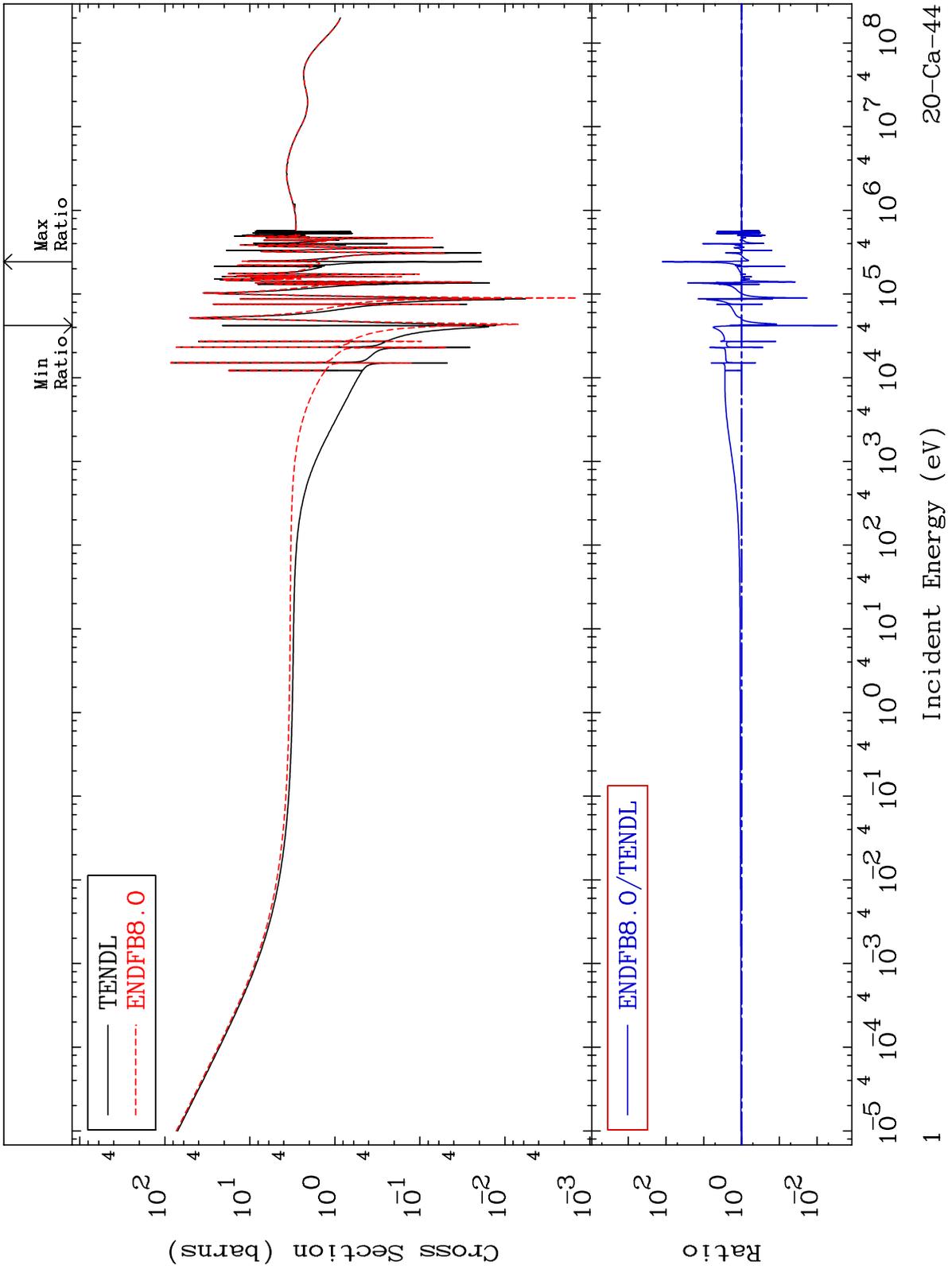
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2037

Total
Cross Section

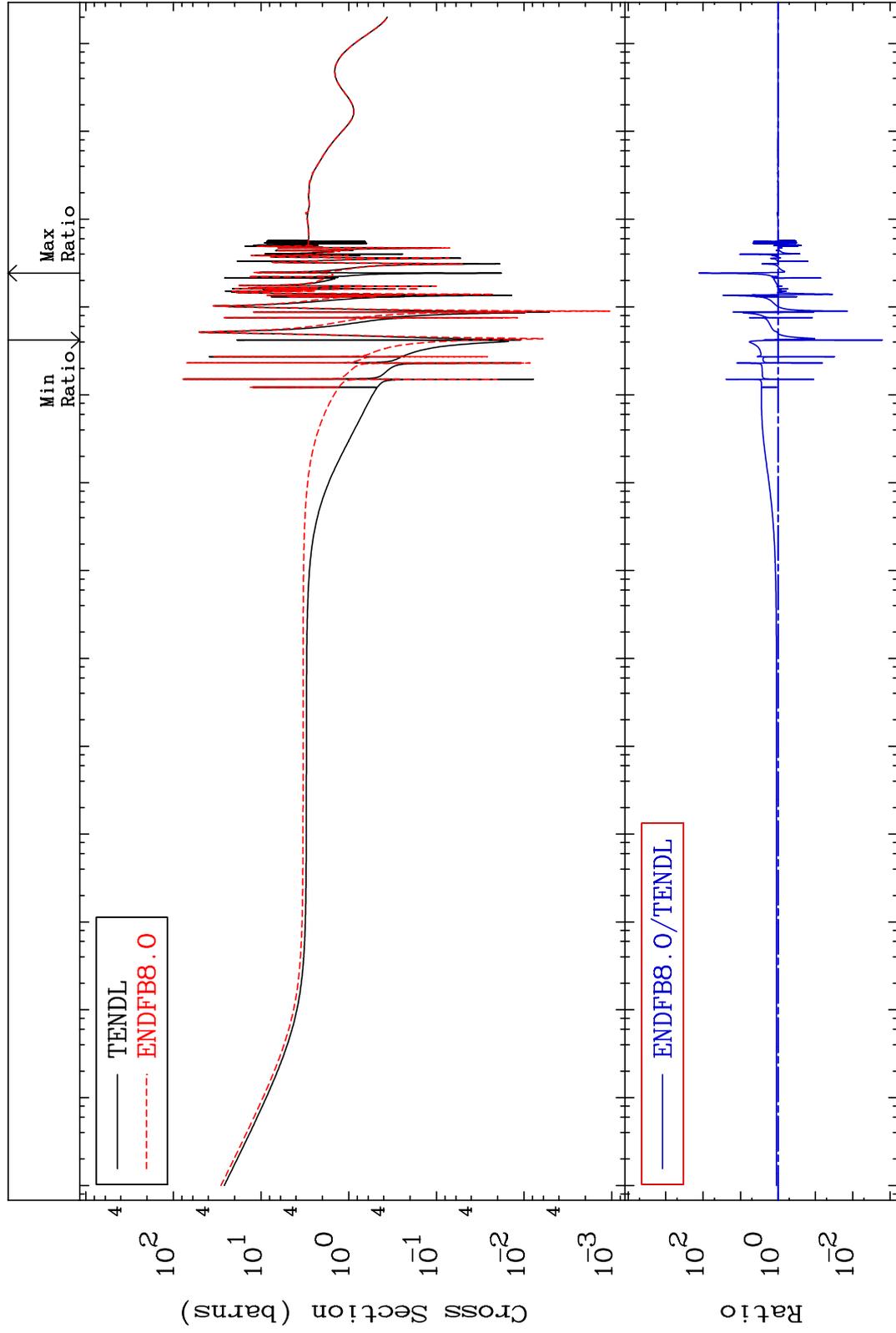
20-Ca-44
-99.70 To 9999. %



MAT 2037

Elastic
Cross Section

20-Ca-44
-99.84 To 9999. %



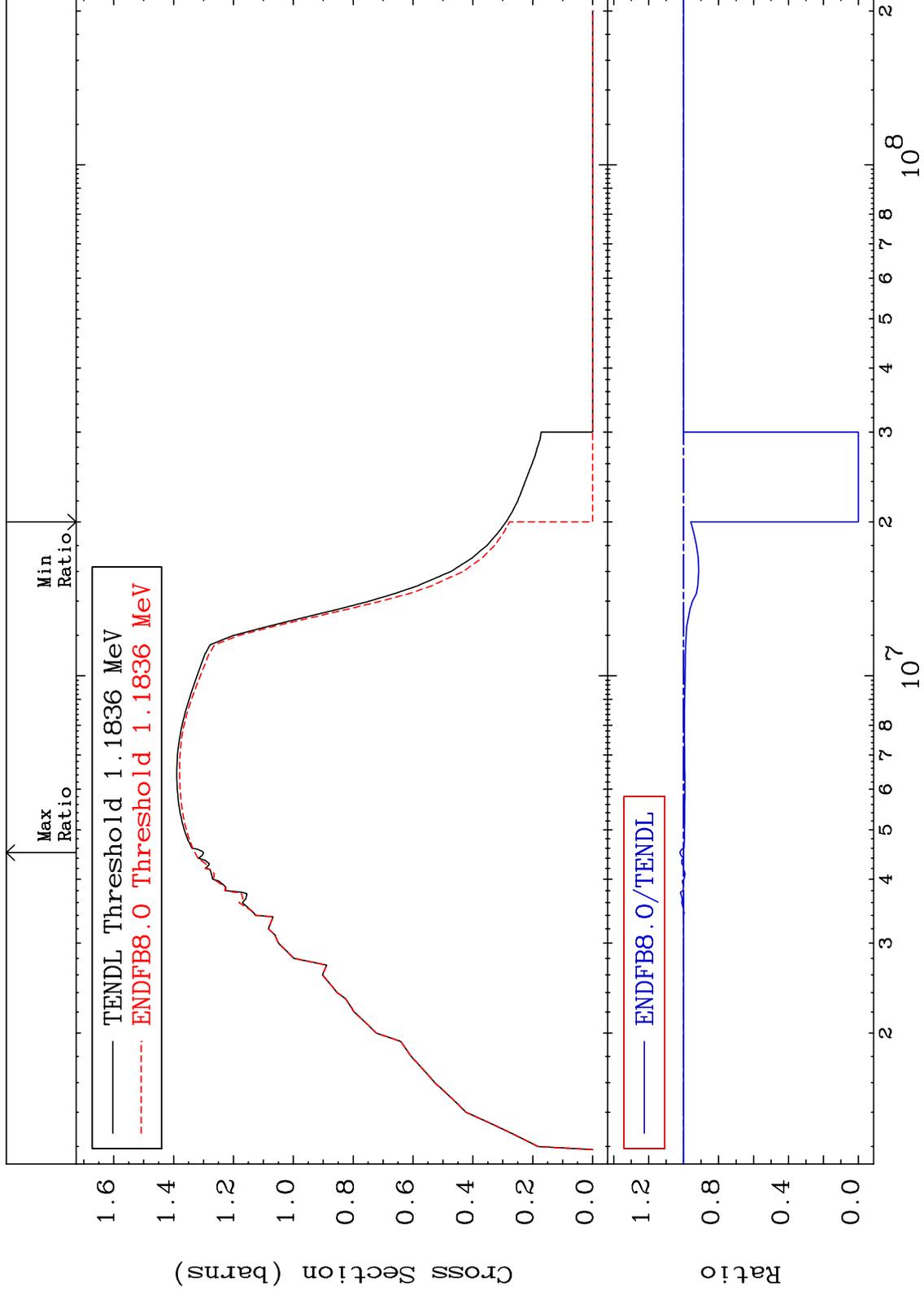
MAT 2037

Inelastic

20-Ca-44

Cross Section

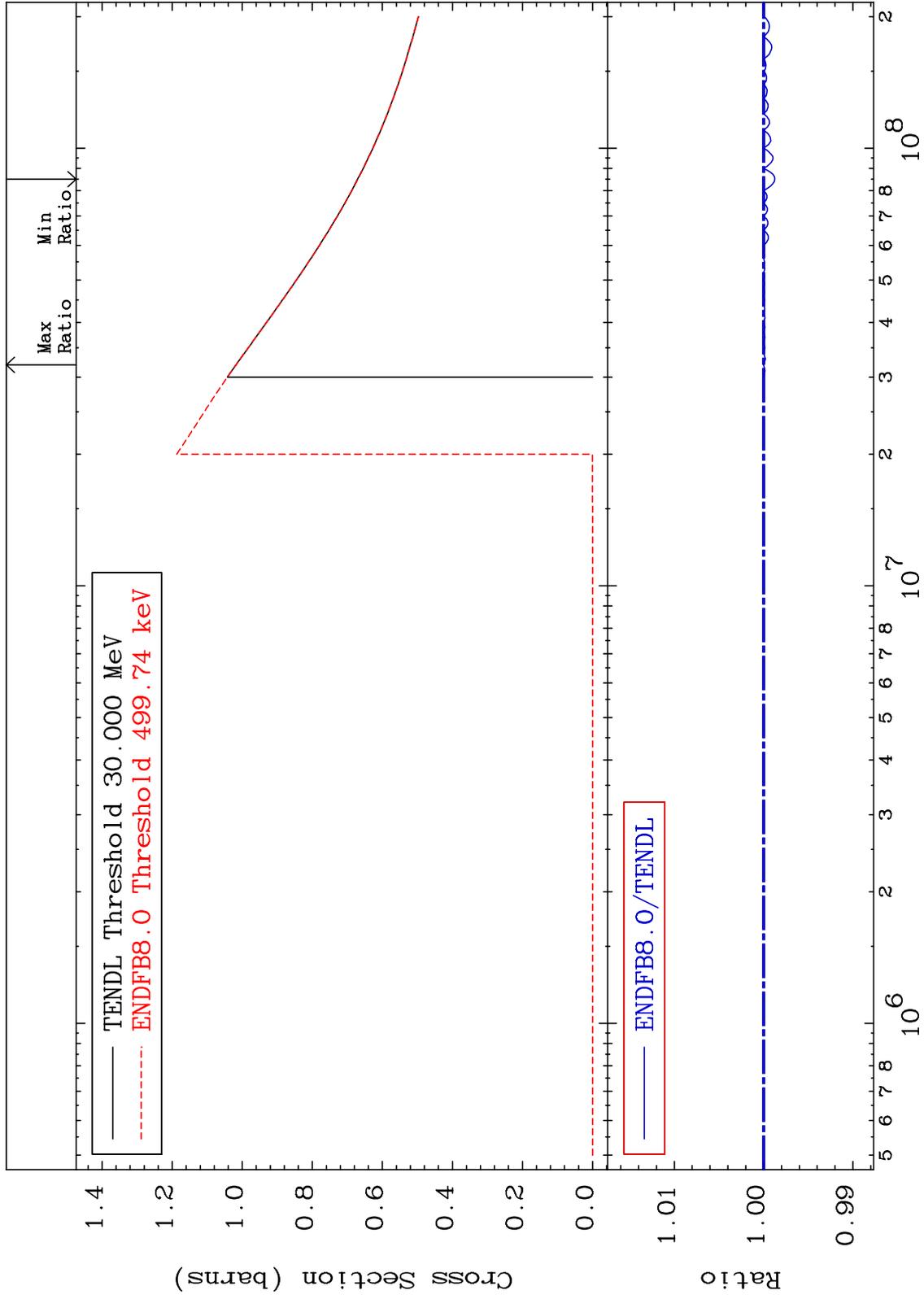
-100.0 To 2.112 %



MAT 2037

(n, remainder)
Cross Section

20-Ca-44
-0.125 To 0.000 %



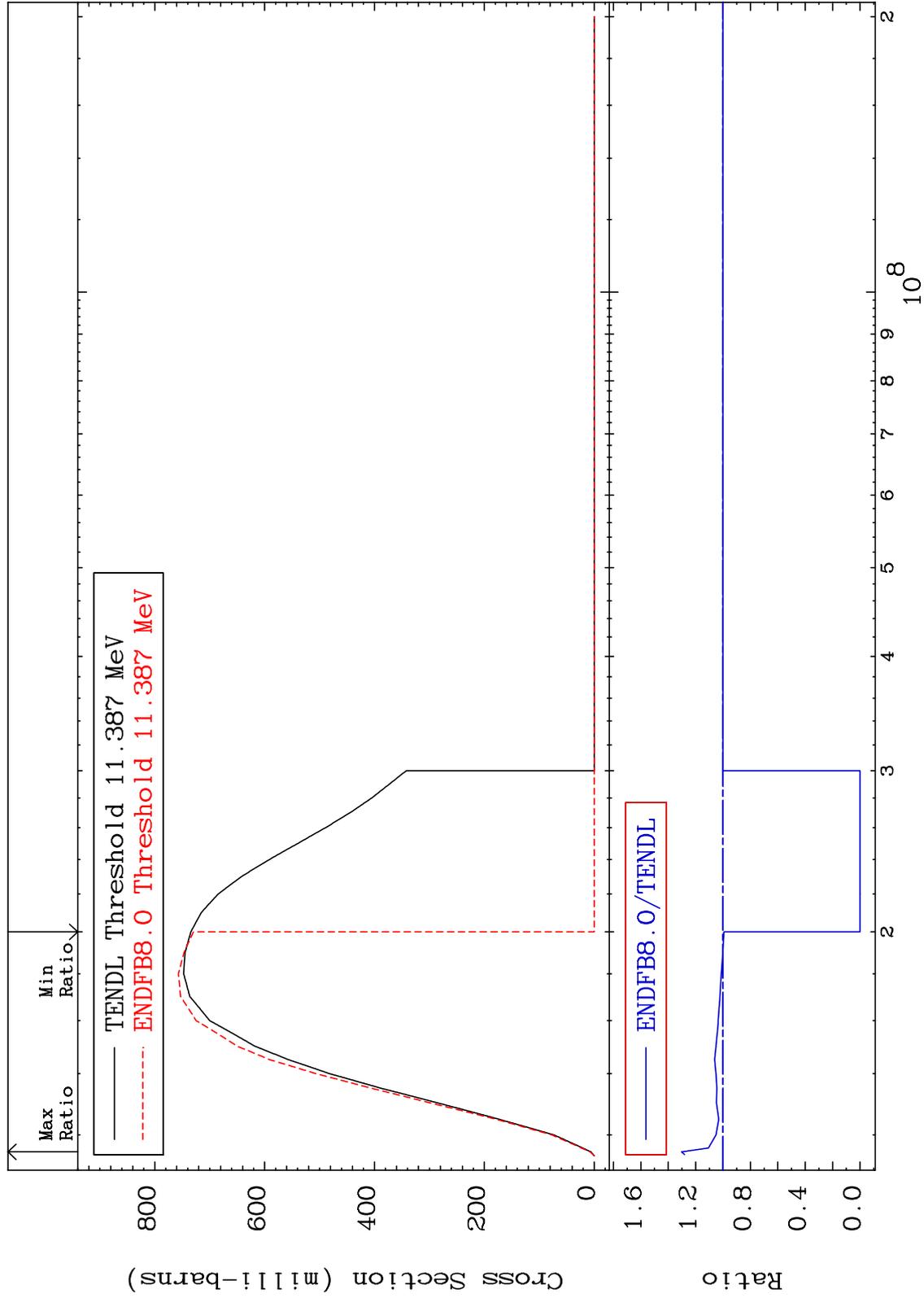
MAT 2037

(n,2n)

20-Ca-44

Cross Section

-100.0 To 30.27 %



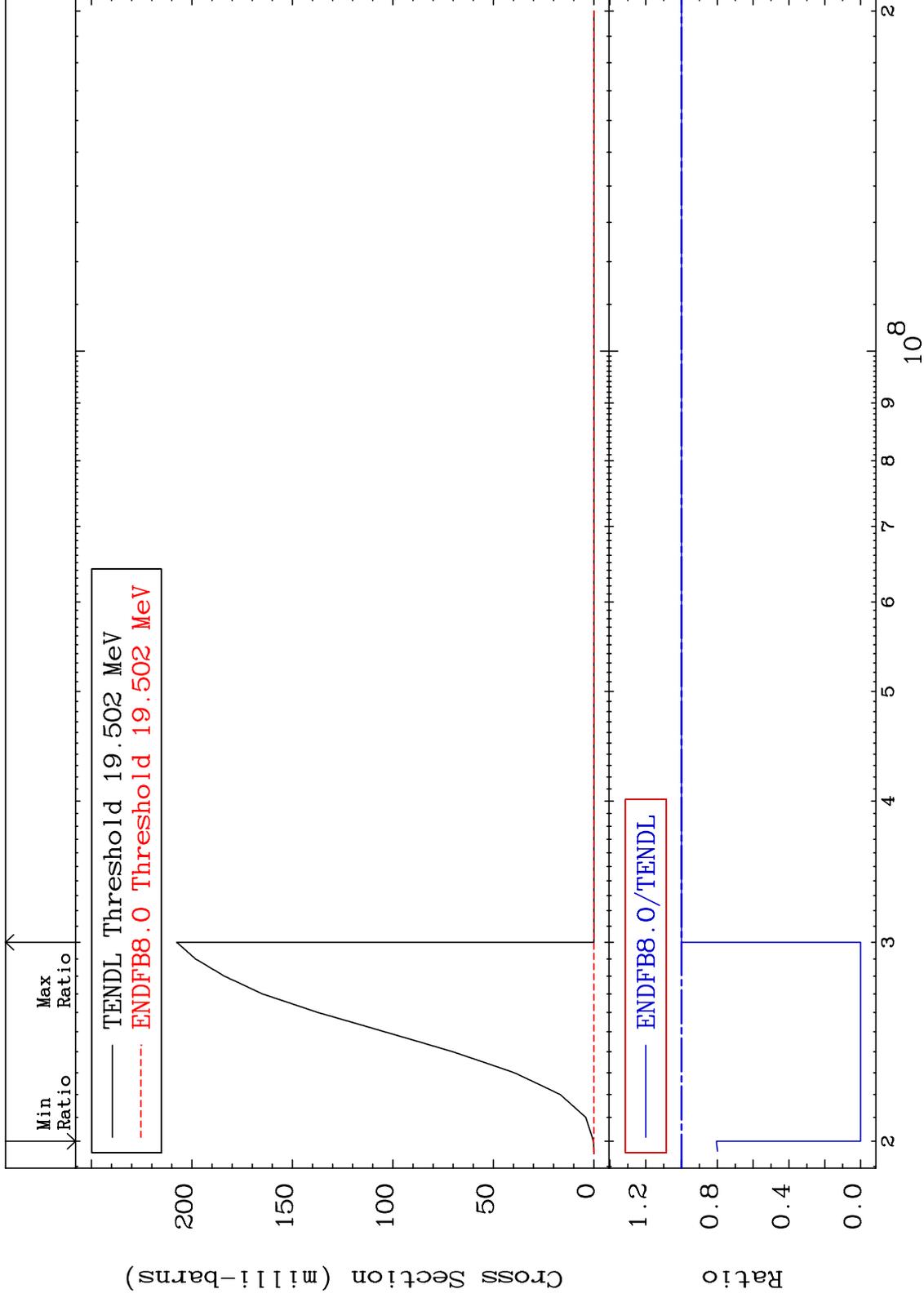
MAT 2037

(n, 3n)

20-Ca-44

Cross Section

-100.0 To 0.000 %



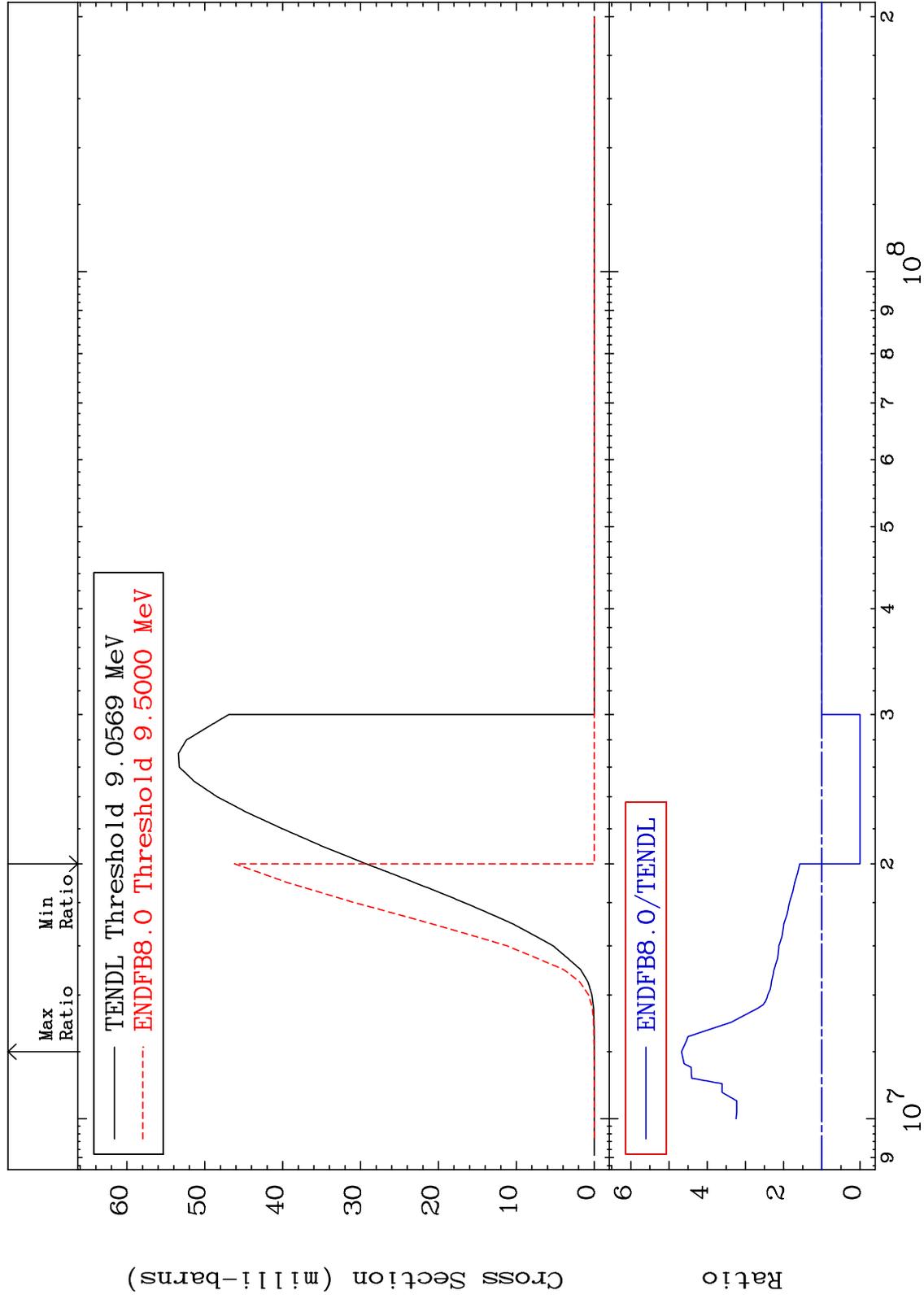
MAT 2037

(n,n') α

20-Ca-44

Cross Section

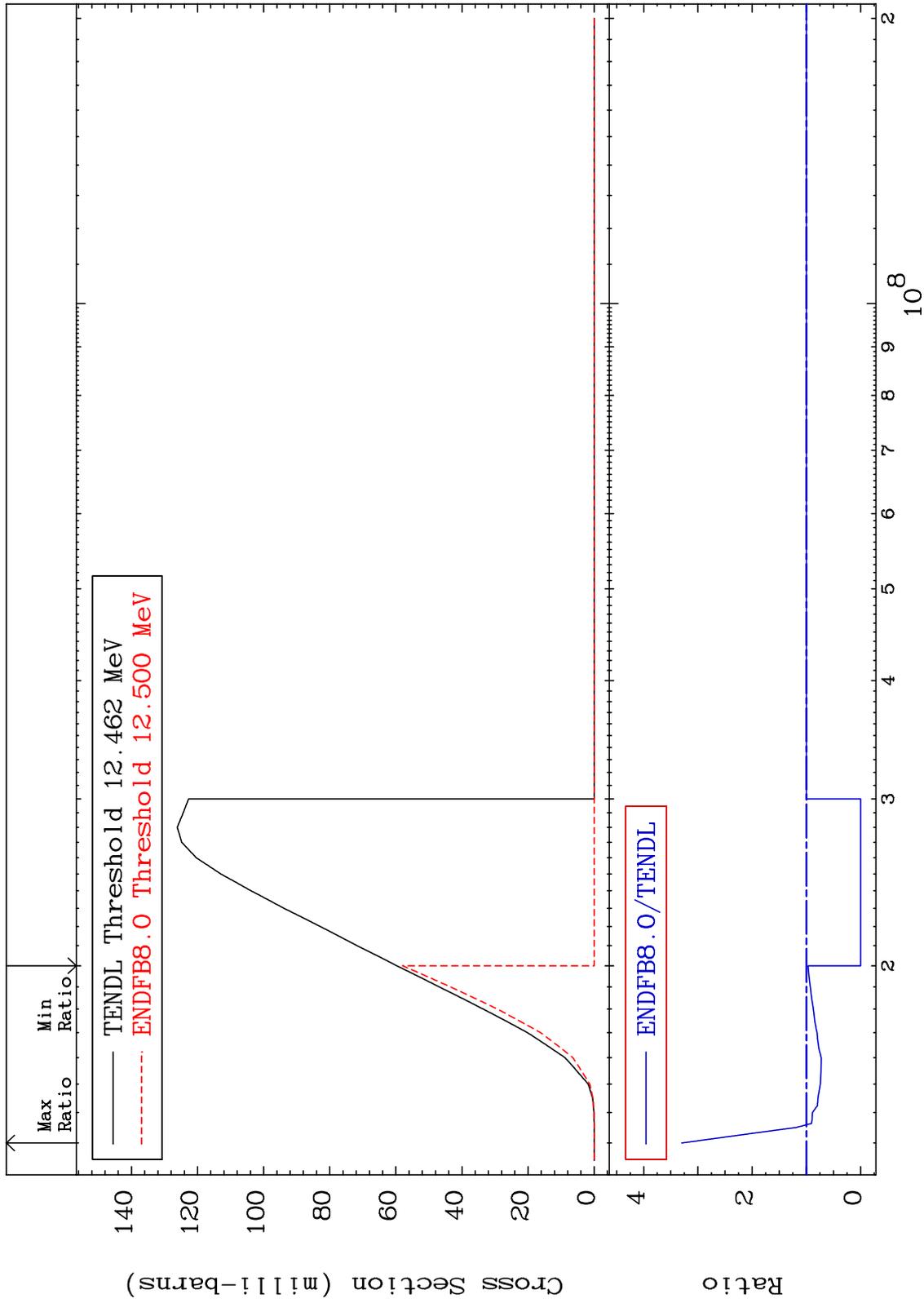
-100.0 To 367.1 %



MAT 2037

(n,n') p
Cross Section

20-Ca-44
-100.0 To 229.9 %



8

Incident Energy (eV)

20-Ca-44

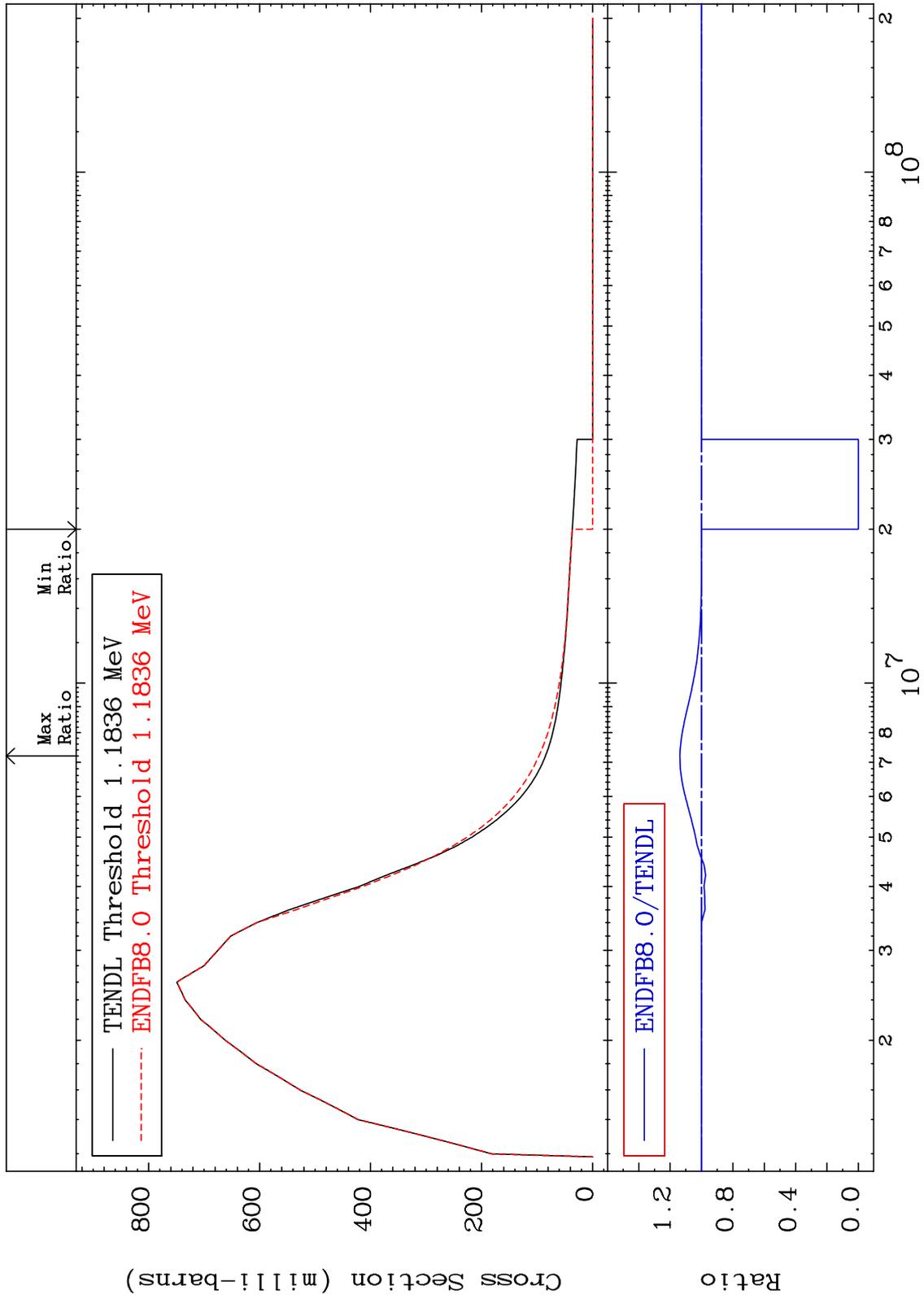
MAT 2037

MT= 51 (n,n') Level

20-Ca-44

-100.0 To 13.76 %

Cross Section



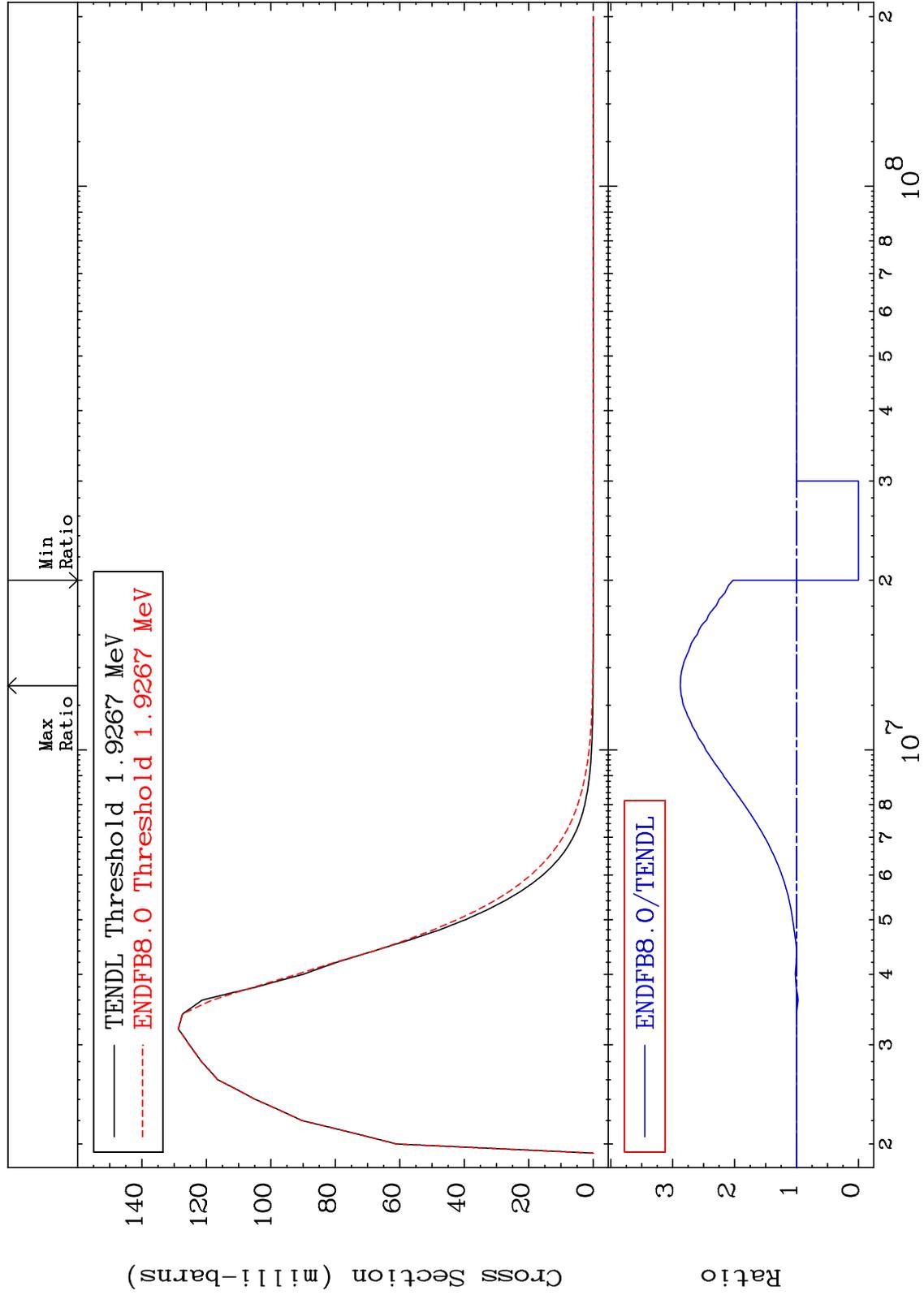
MAT 2037

MT= 52 (n,n') Level

20-Ca-44

-100.0 To 187.6 %

Cross Section



10

Incident Energy (eV)

20-Ca-44

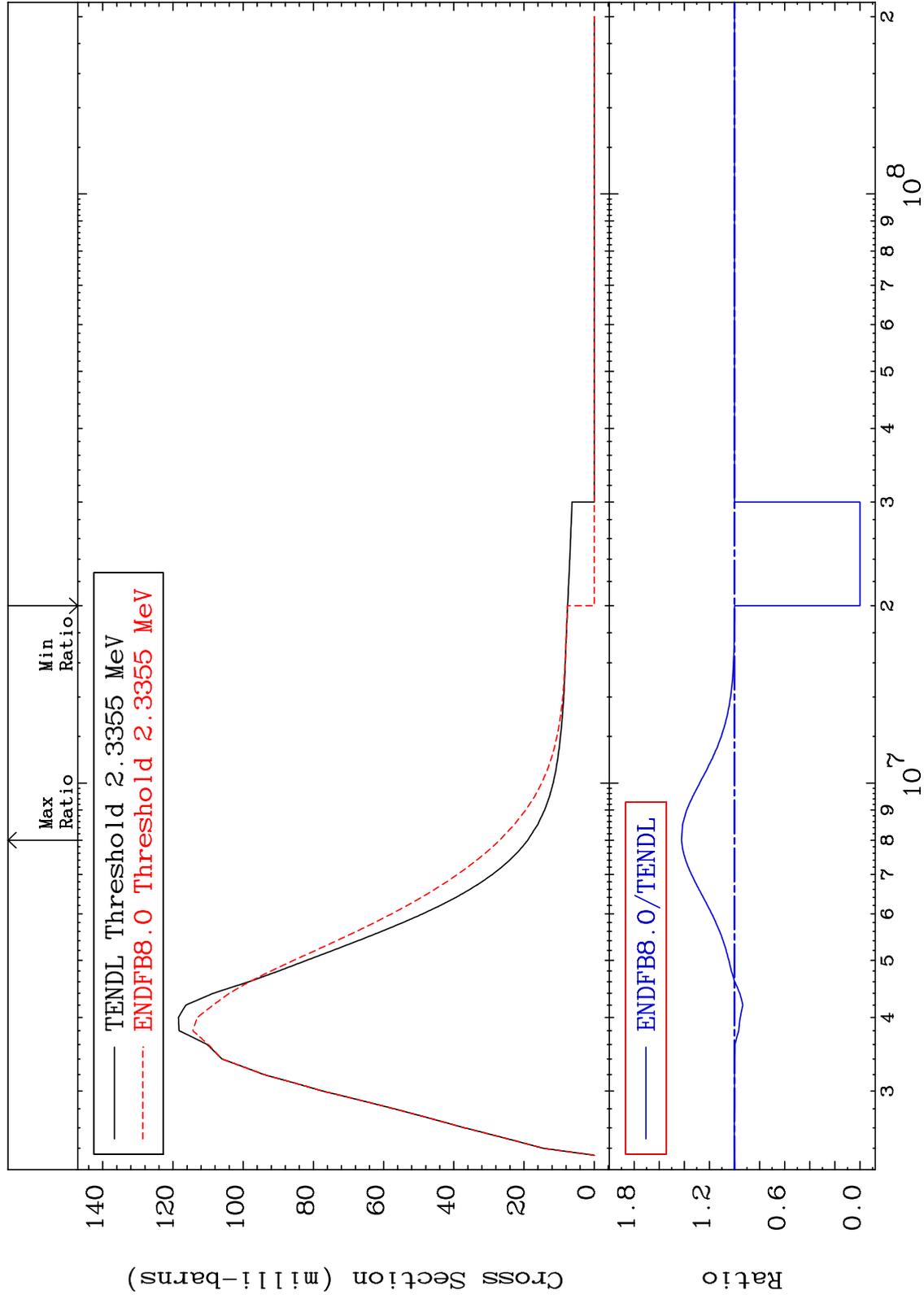
MAT 2037

MT= 53 (n,n') Level

20-Ca-44

-100.0 To 42.15 %

Cross Section



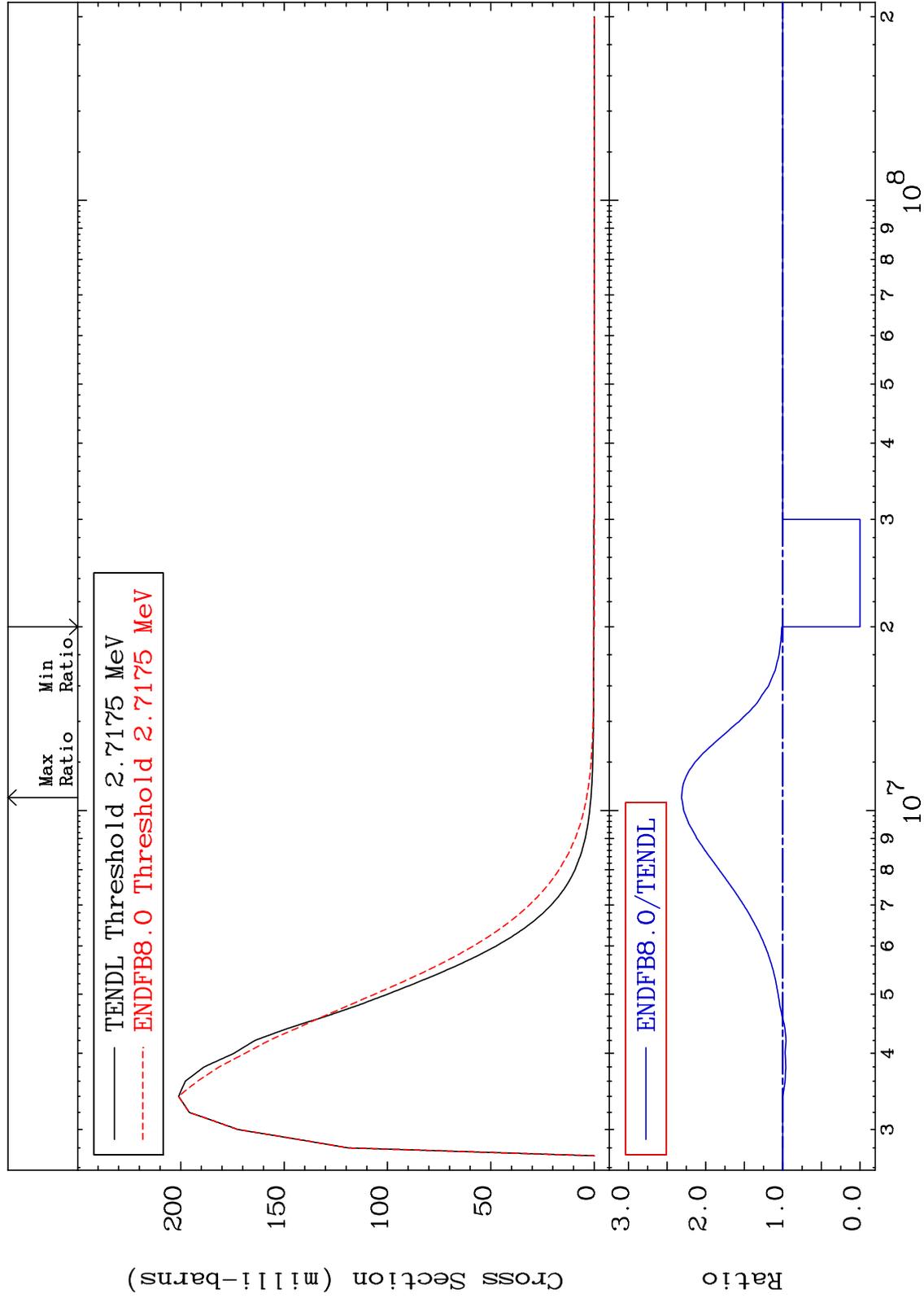
MAT 2037

MT= 54 (n,n') Level

20-Ca-44

-100.0 To 131.2 %

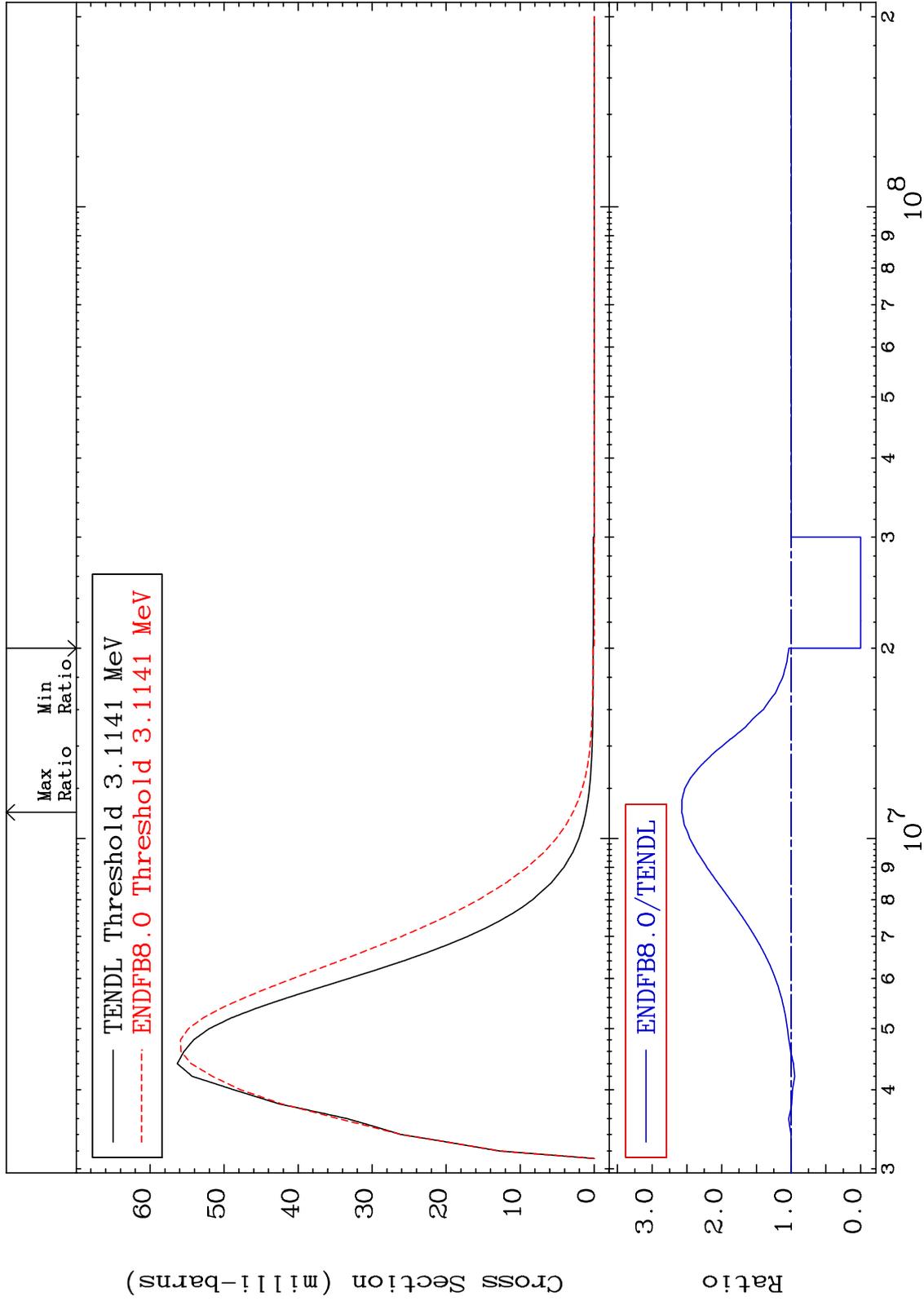
Cross Section



MAT 2037

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

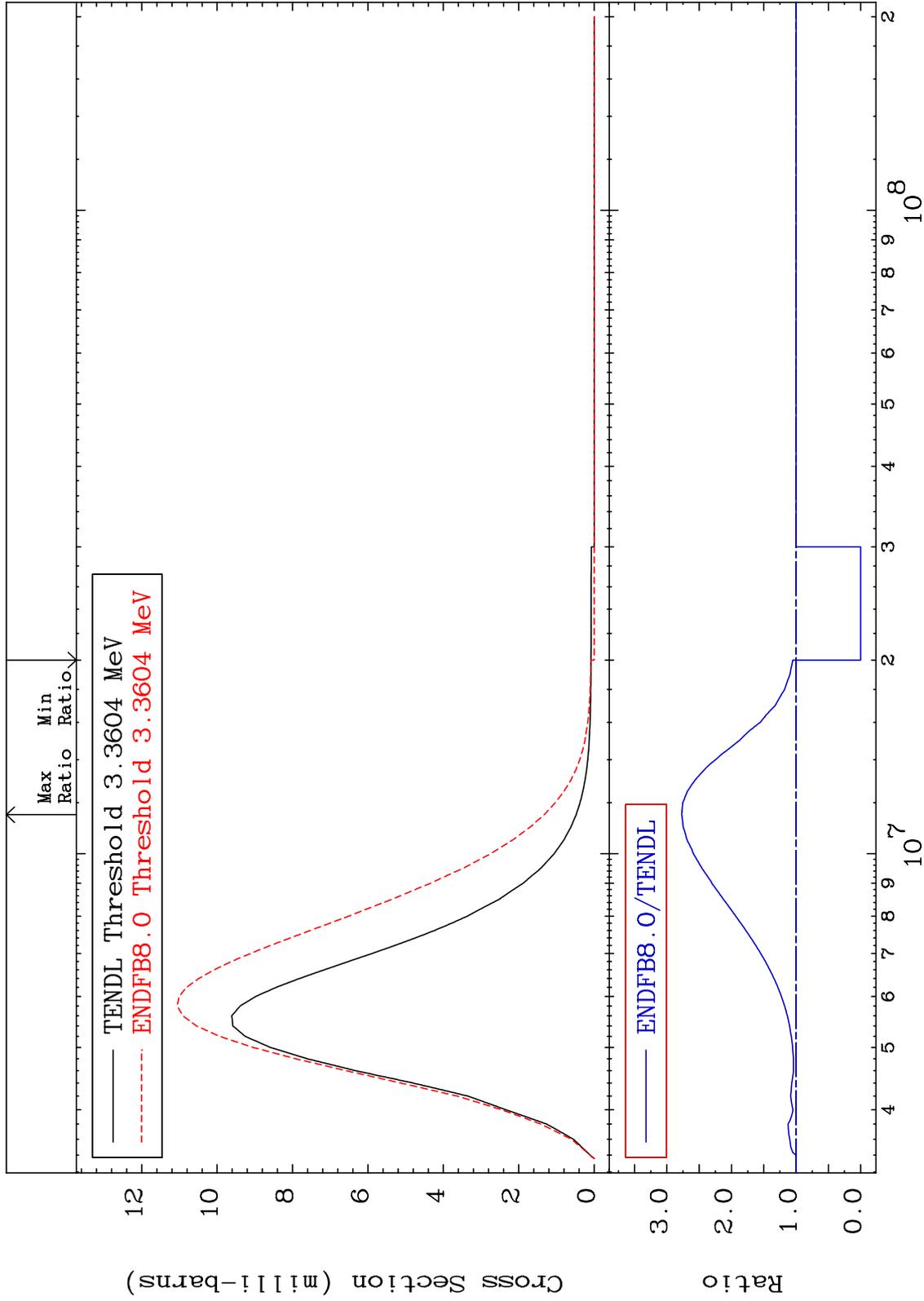
20-Ca-44
-100.0 To 157.5 %



MAT 2037

MT= 56 (n,n') Level
Cross Section

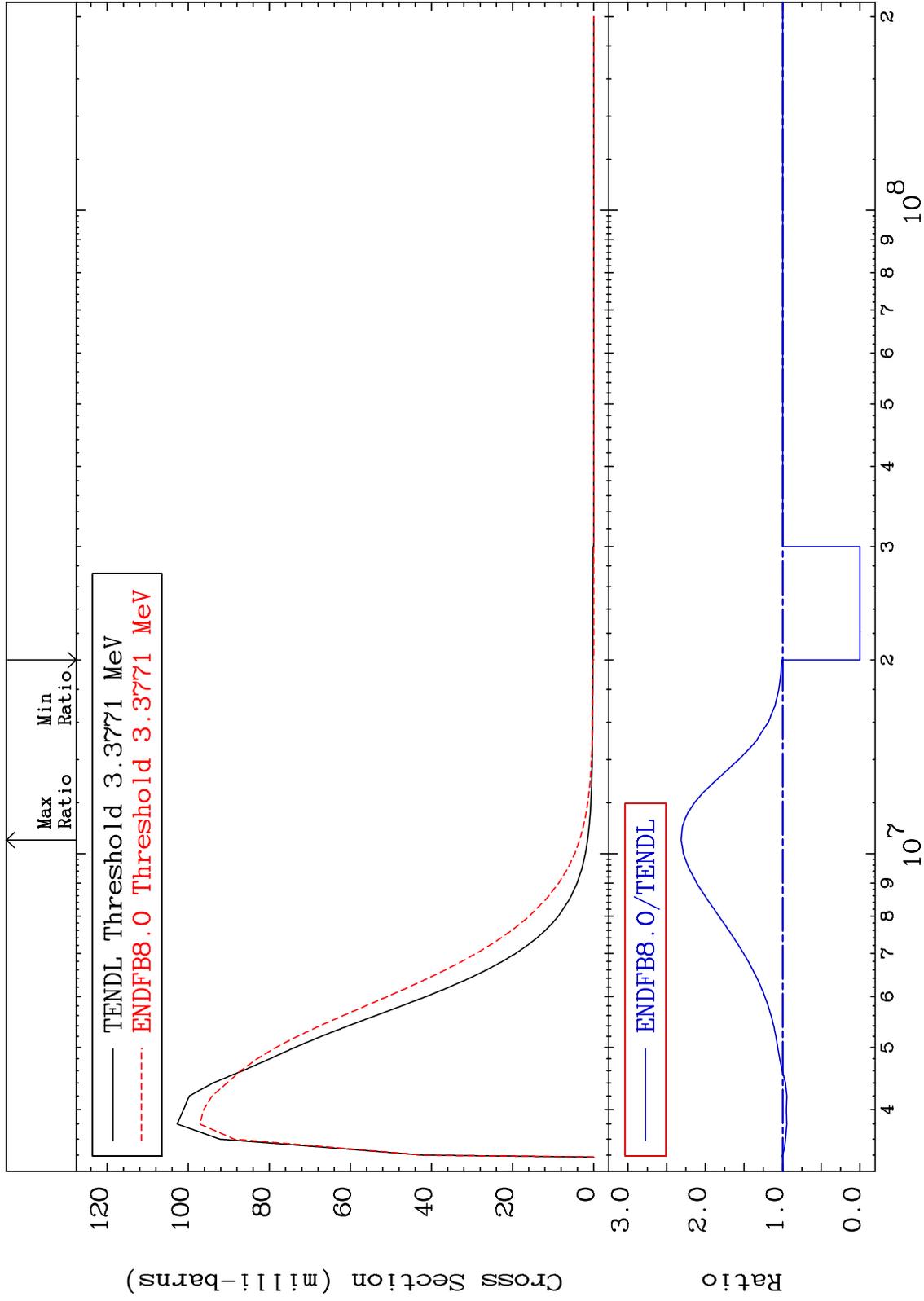
20-Ca-44
-100.0 To 177.0 %



MAT 2037

MT= 57 (n,n') Level
Cross Section

20-Ca-44
-100.0 To 131.3 %



15

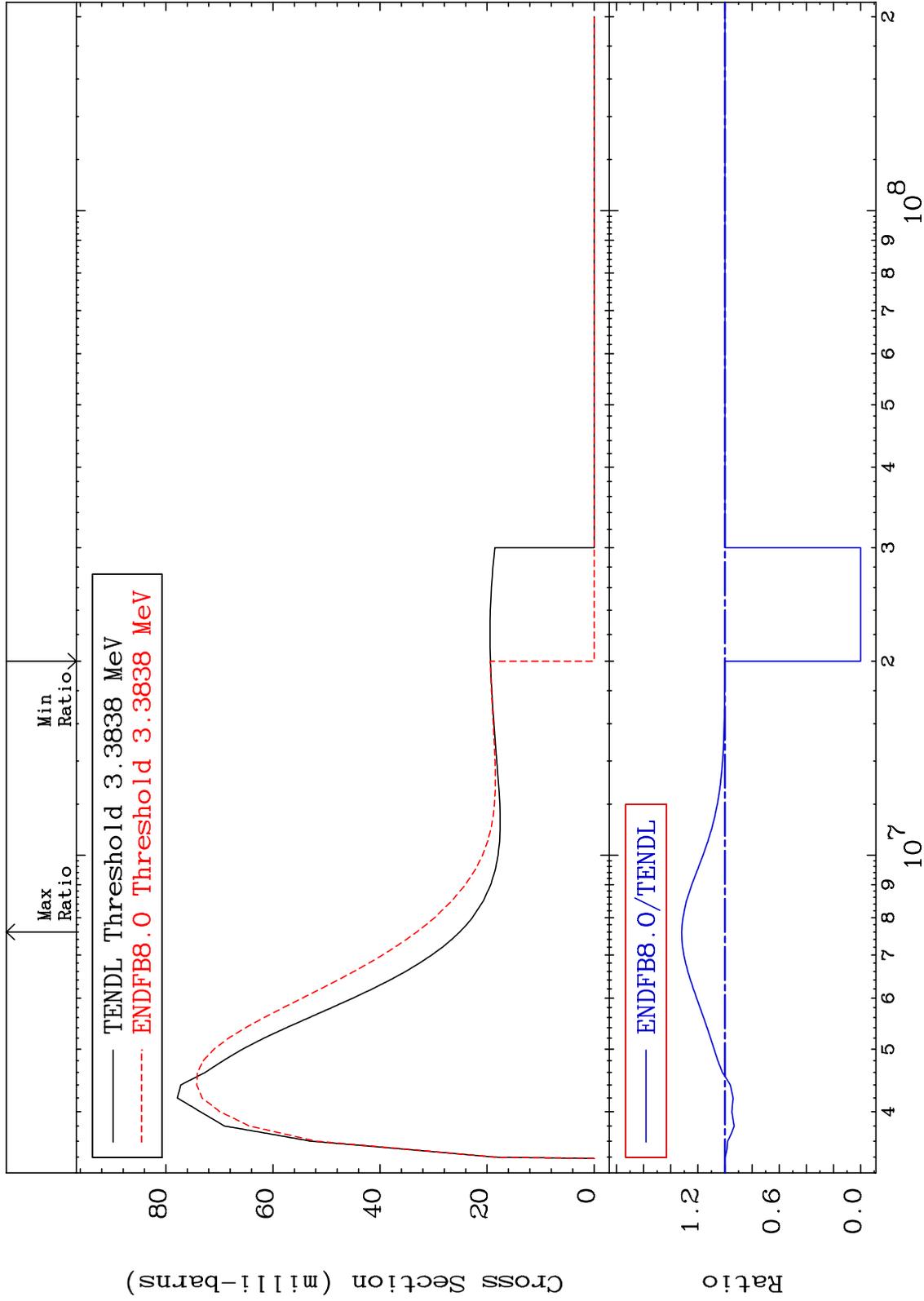
Incident Energy (eV)

20-Ca-44

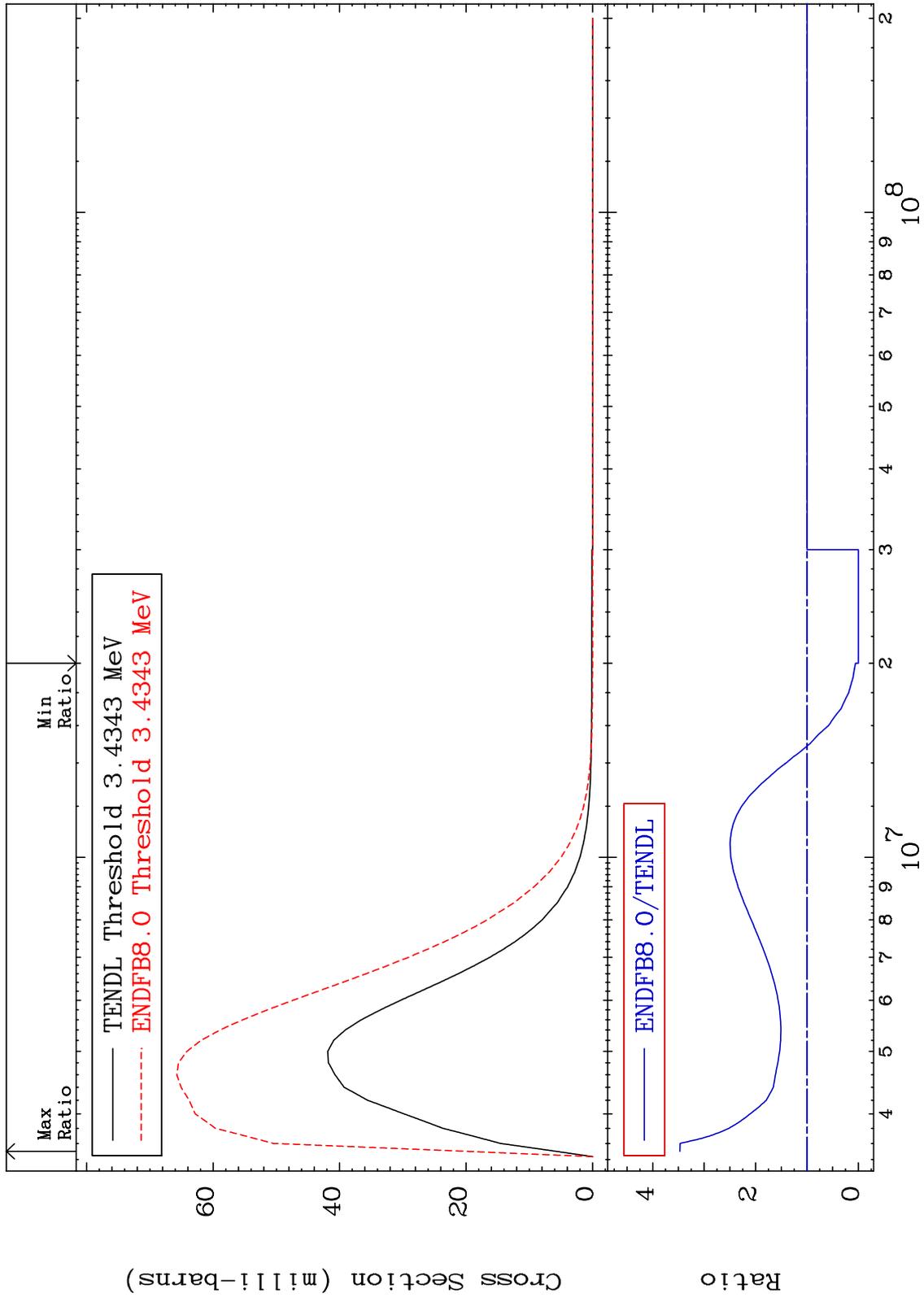
MAT 2037

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

20-Ca-44
-100.0 To 31.93 %



MAT 2037 MT= 59 (n,n') Level Cross Section -100.0 To 247.1 % 20-Ca-44



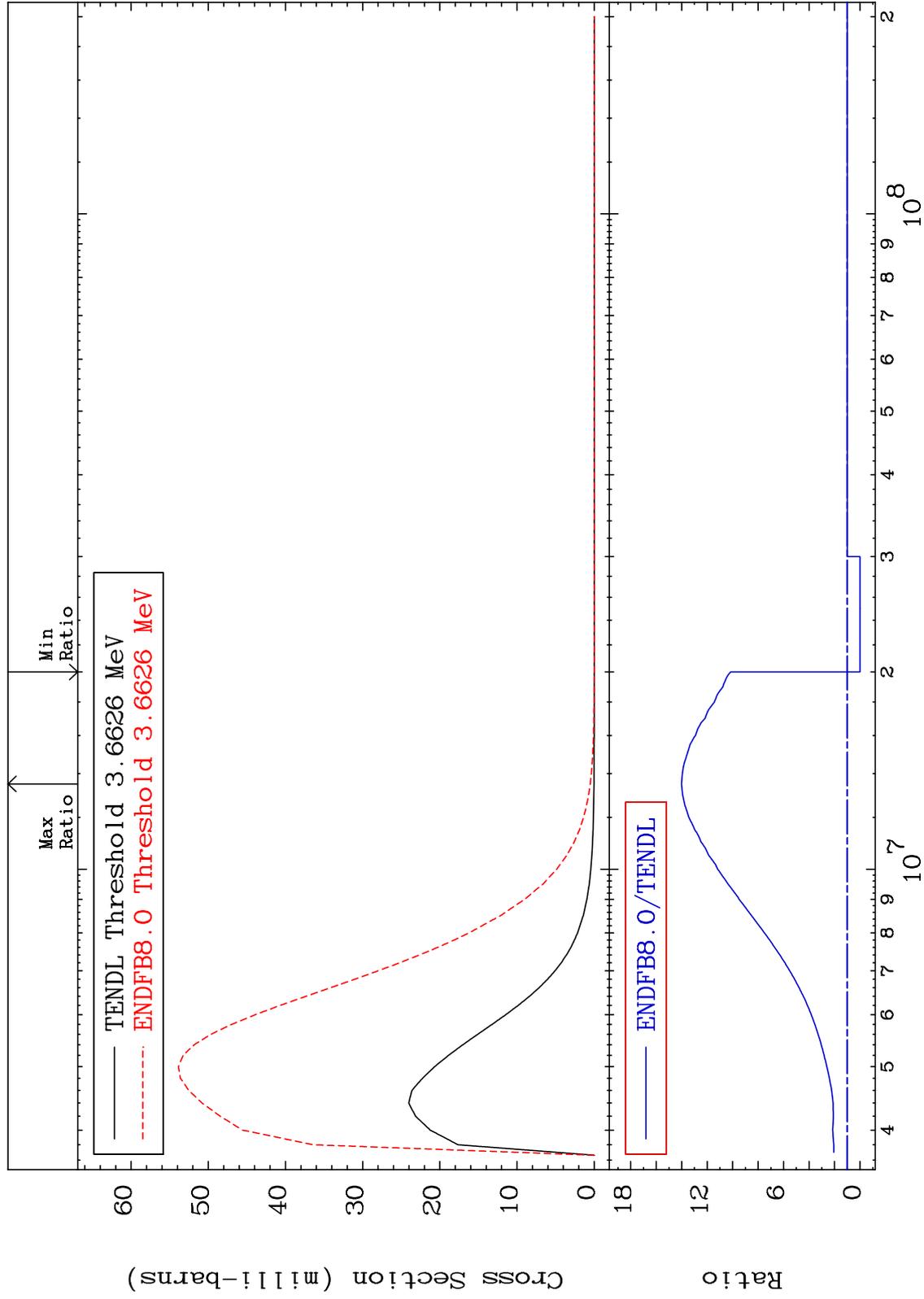
MAT 2037

MT= 60 (n,n') Level

20-Ca-44

-100.0 To 1301. %

Cross Section



18

Incident Energy (eV)

20-Ca-44

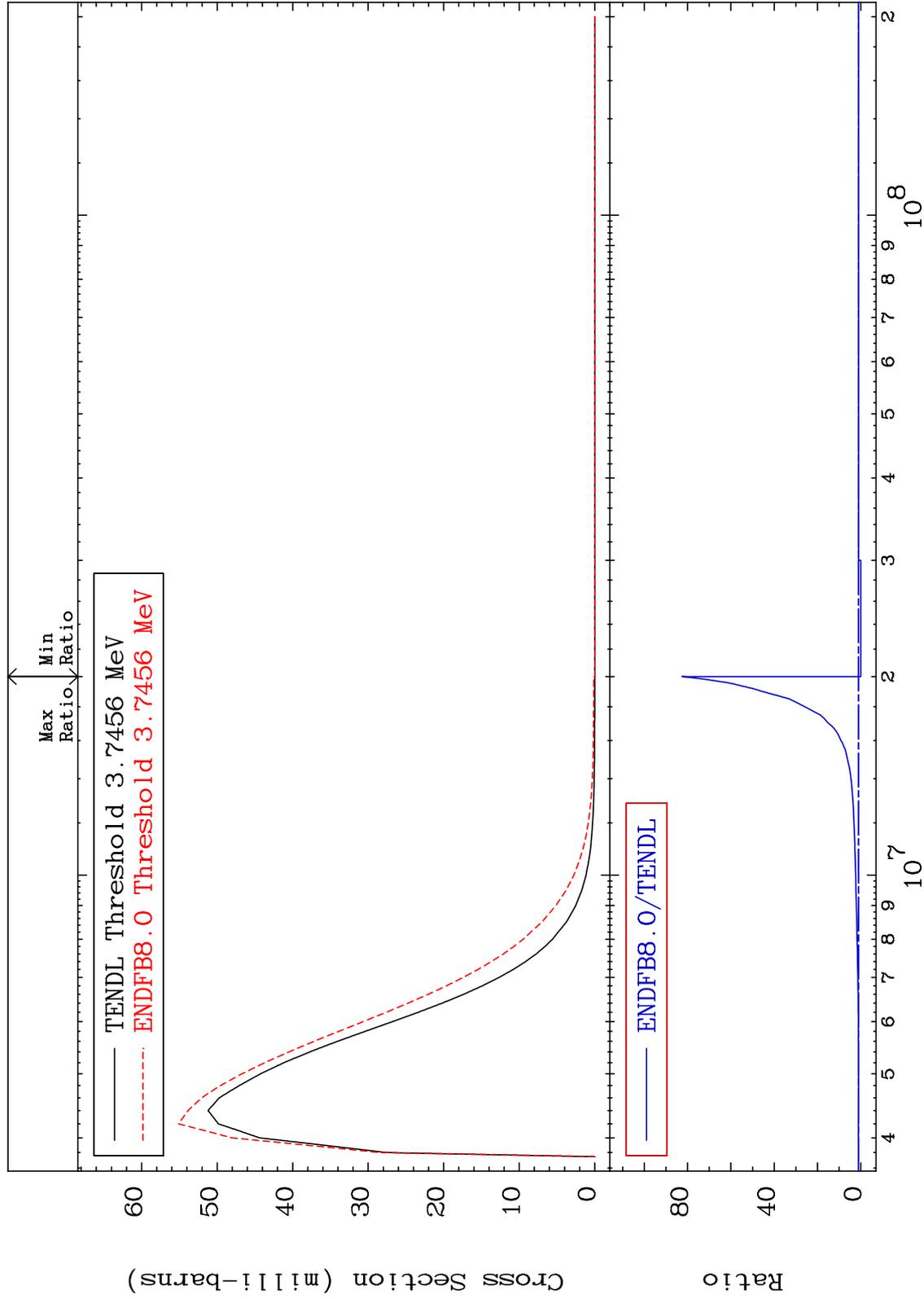
MAT 2037

MT= 61 (n,n') Level

20-Ca-44

-100.0 To 8150. %

Cross Section



19

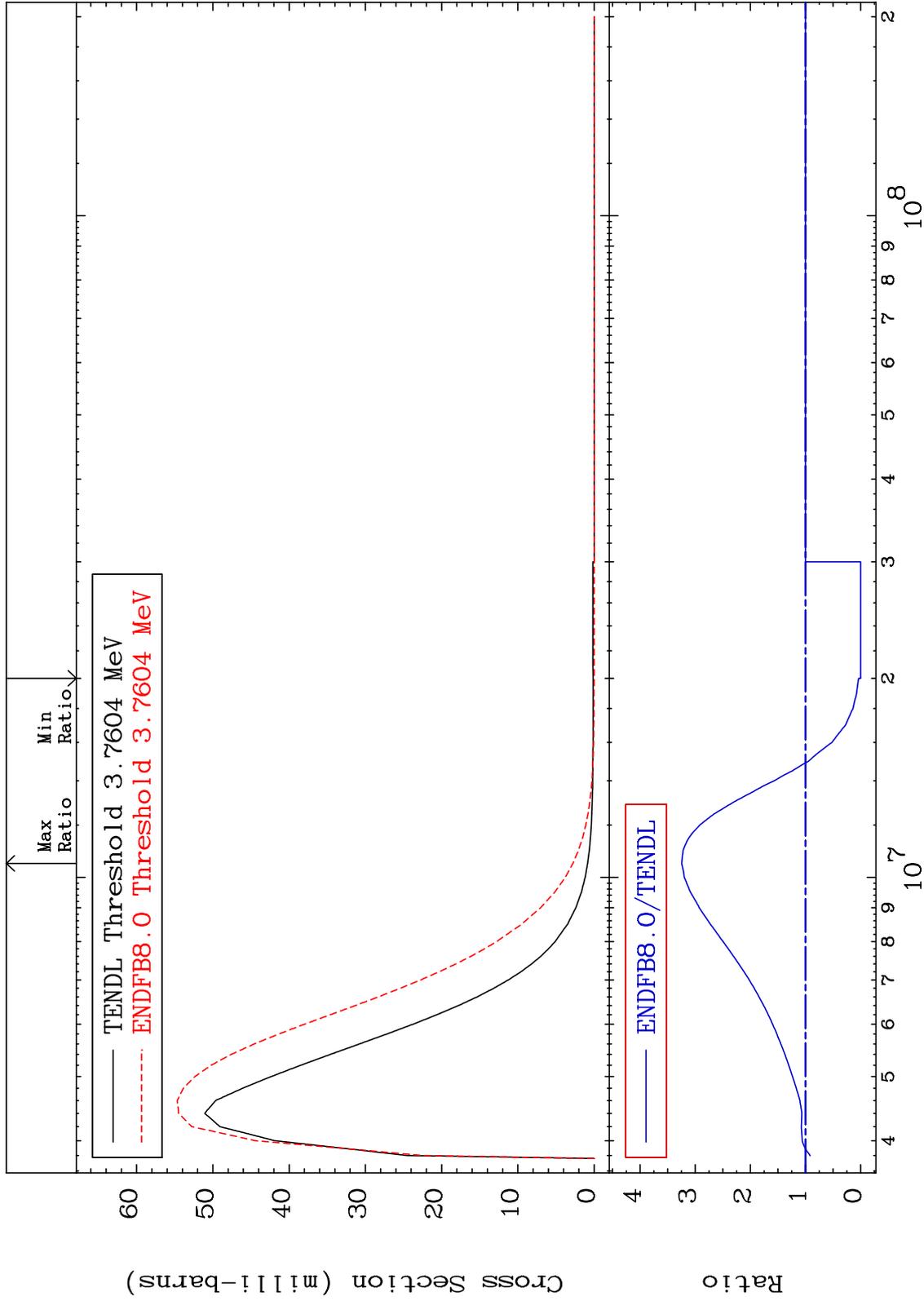
Incident Energy (eV)

20-Ca-44

MAT 2037

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

20-Ca-44
-100.0 To 224.6 %



20

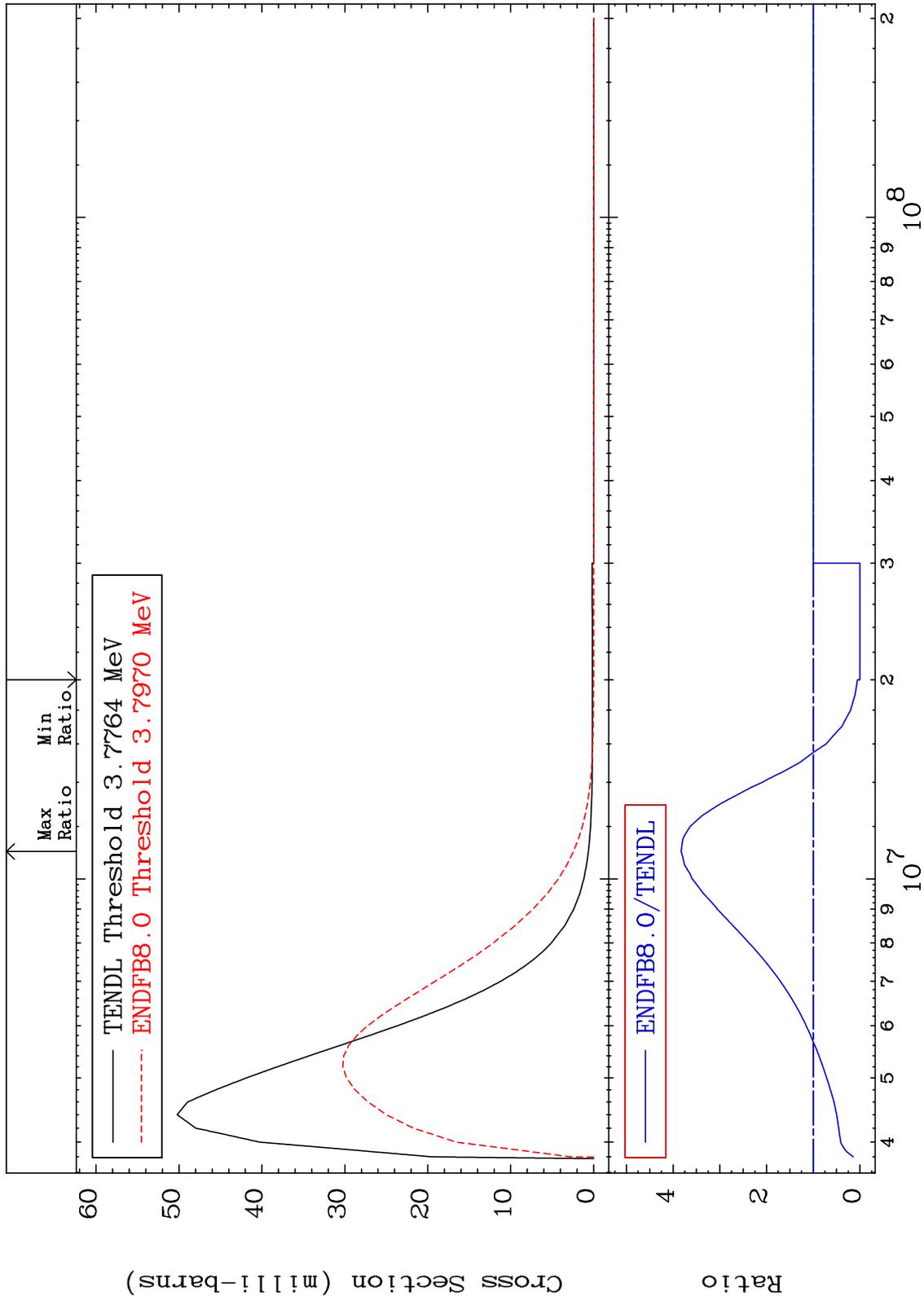
Incident Energy (eV)

20-Ca-44

MAT 2037

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

20-Ca-44
-100.0 To 282.8 %



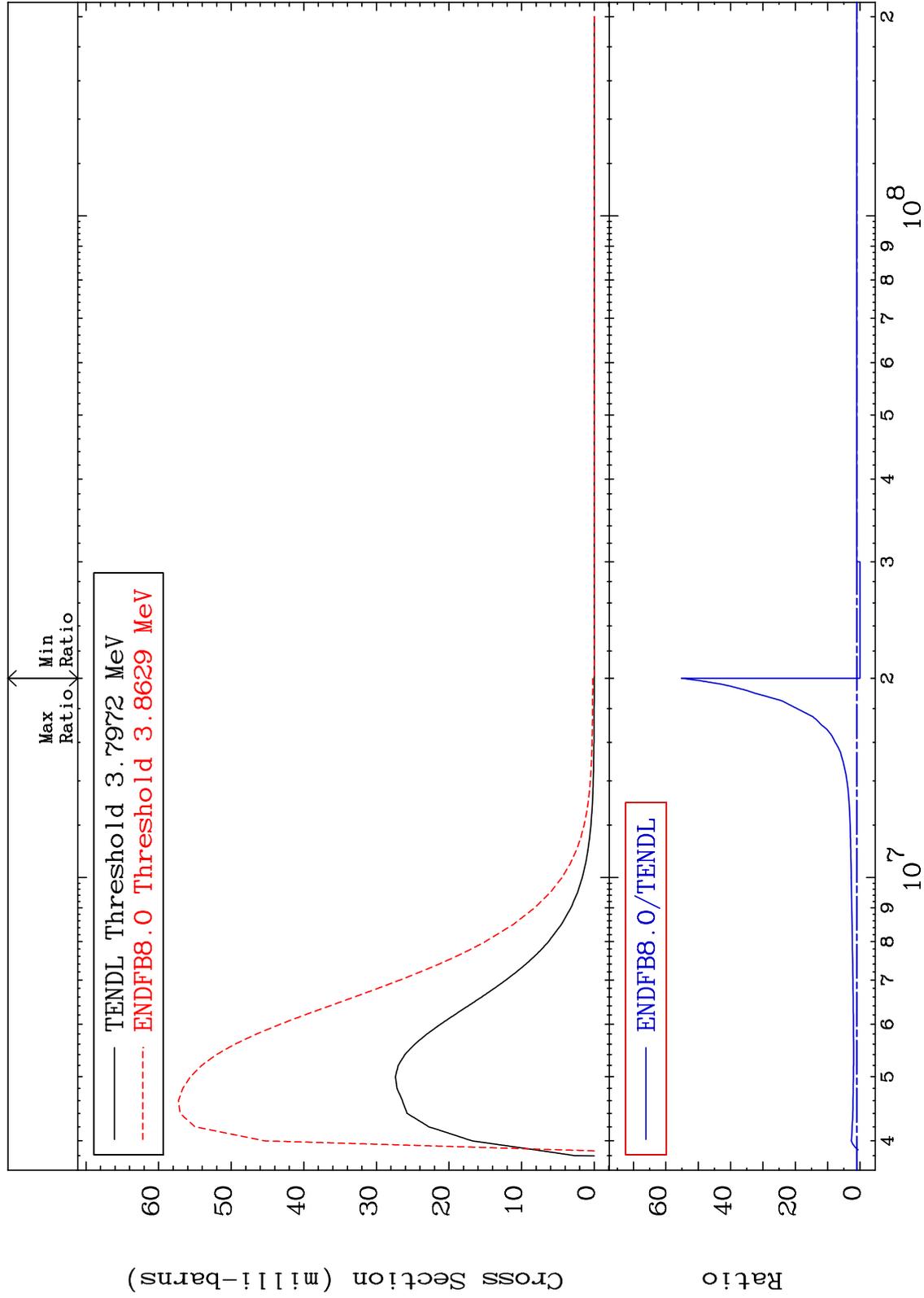
MAT 2037

MT= 64 (n,n') Level

20-Ca-44

-100.0 To 5414. %

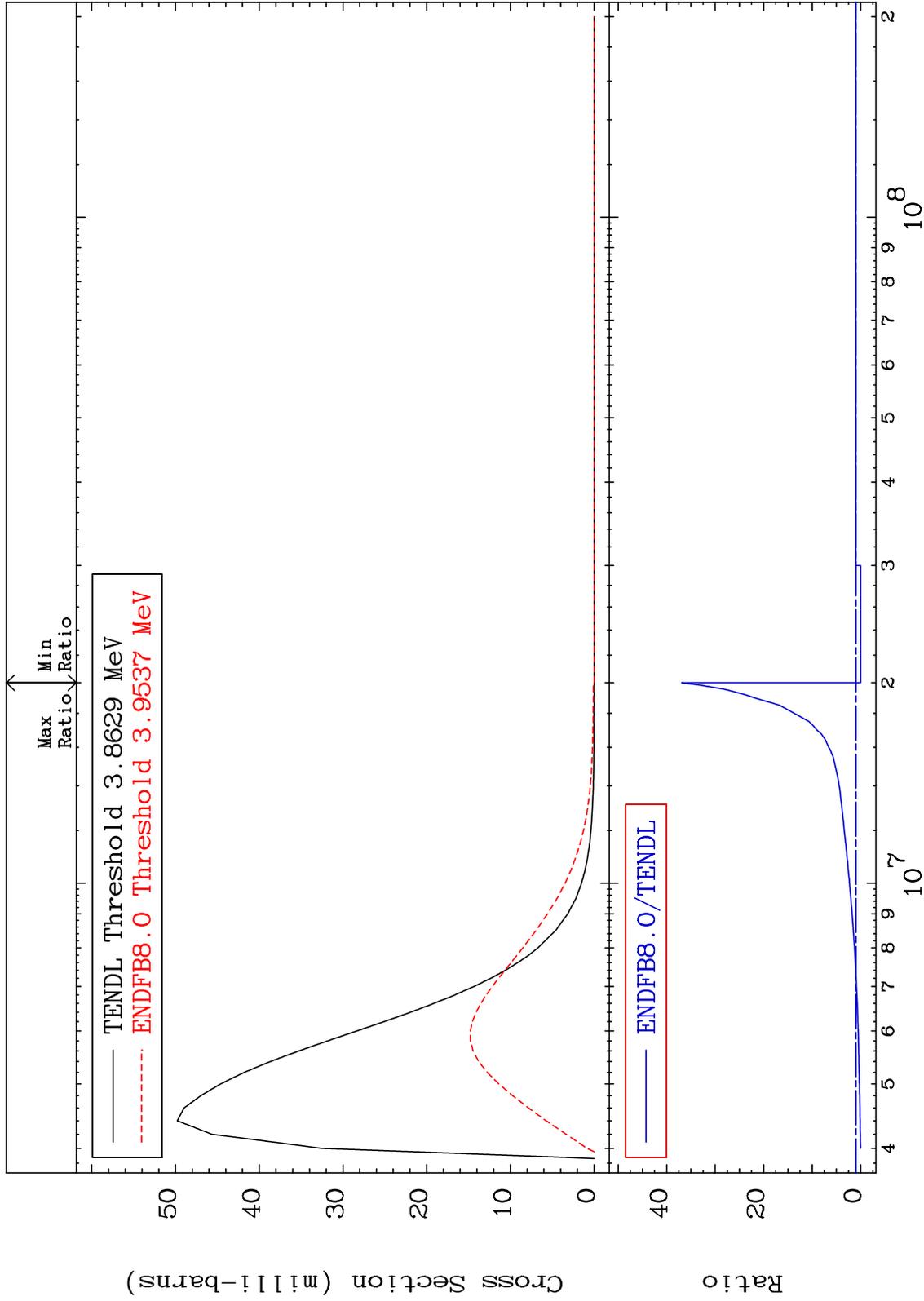
Cross Section



MAT 2037

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

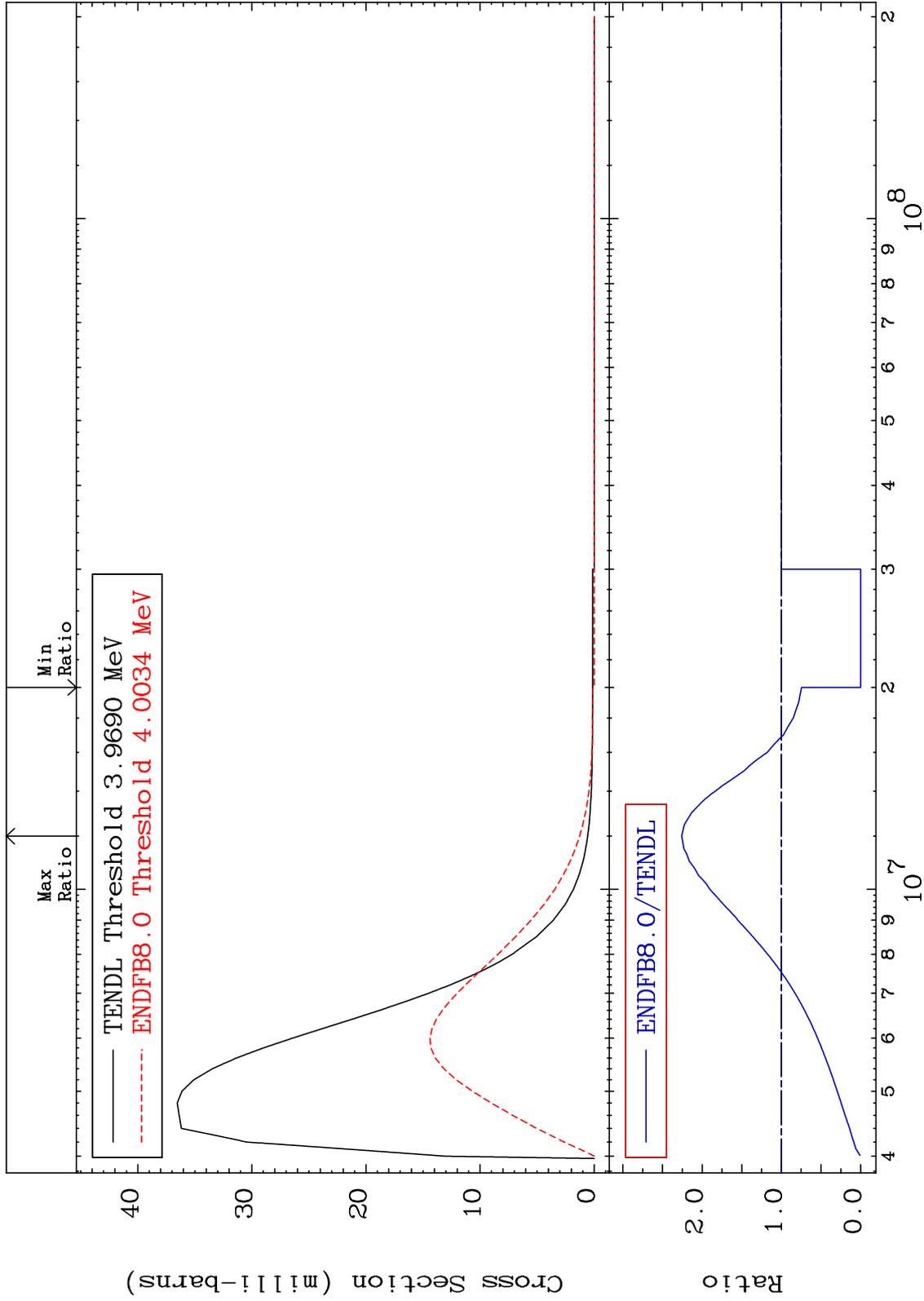
20-Ca-44
-100.0 To 3590. %



MAT 2037

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

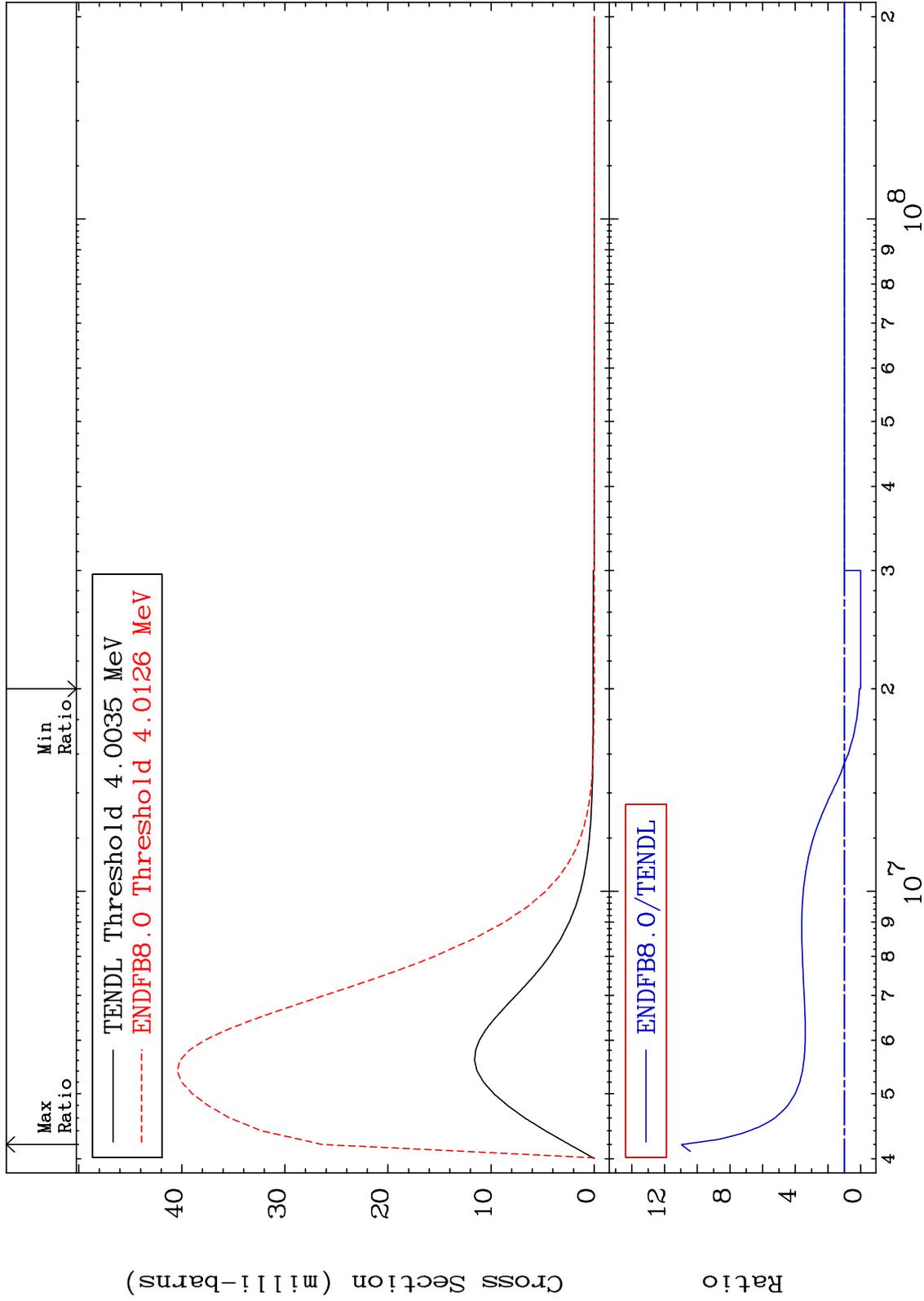
20-Ca-44
-100.0 To 125.7 %



MAT 2037

MT= 67 (n,n') Level
Cross Section

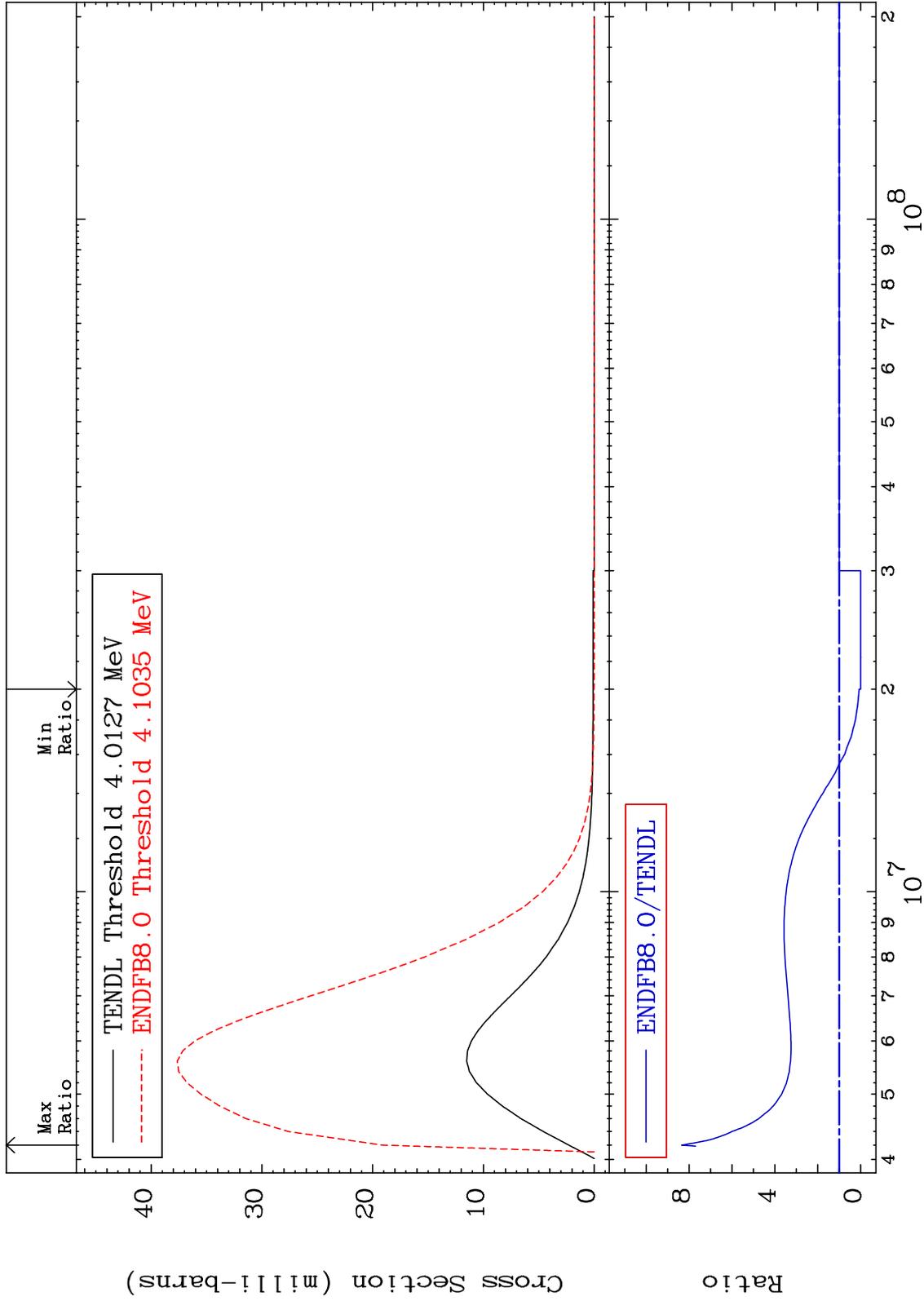
20-Ca-44
-100.0 To 994.7 %



MAT 2037

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

20-Ca-44
-100.0 To 734.7 %



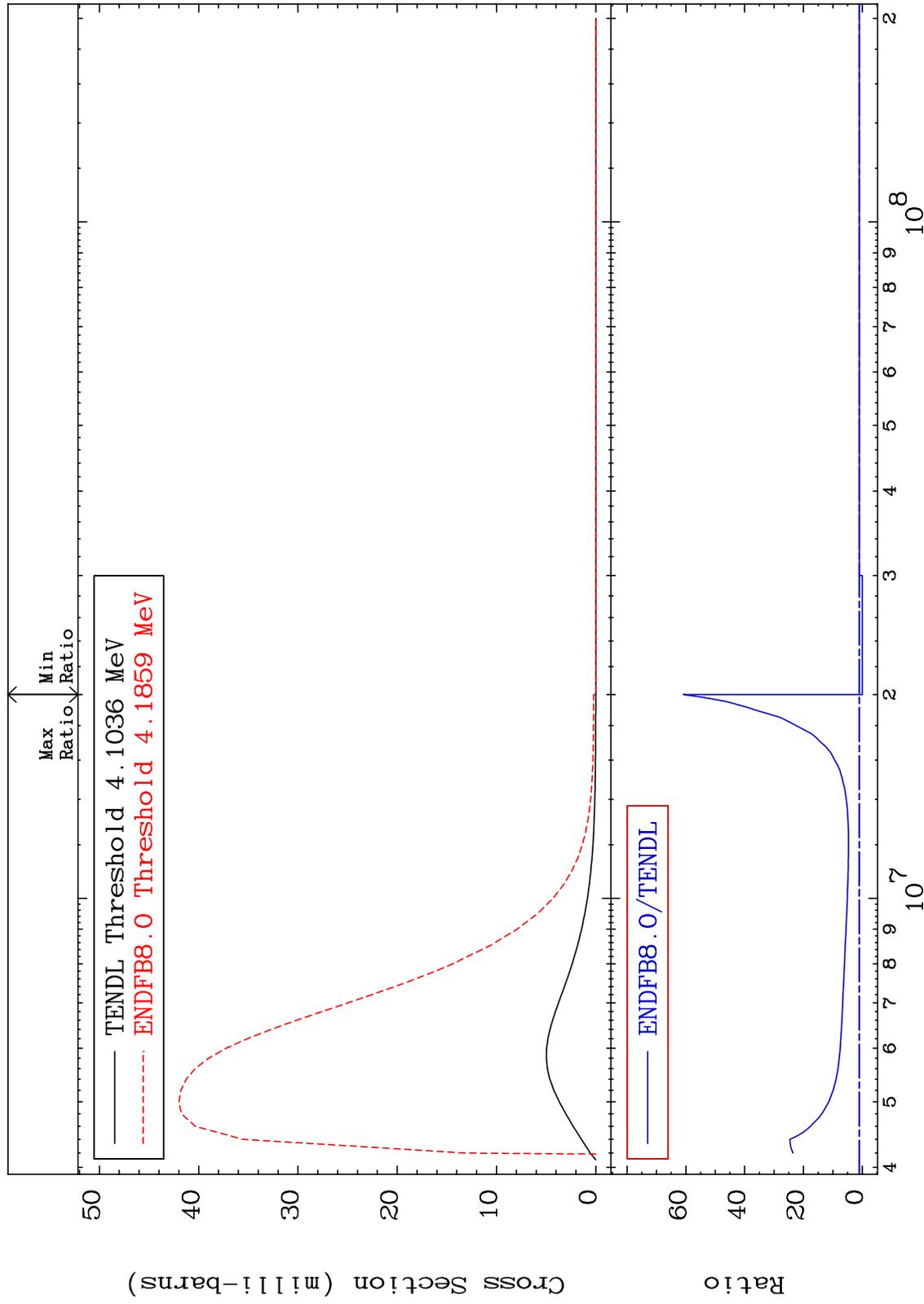
MAT 2037

MT= 69 (n,n') Level

20-Ca-44

-100.0 To 5984. %

Cross Section



27

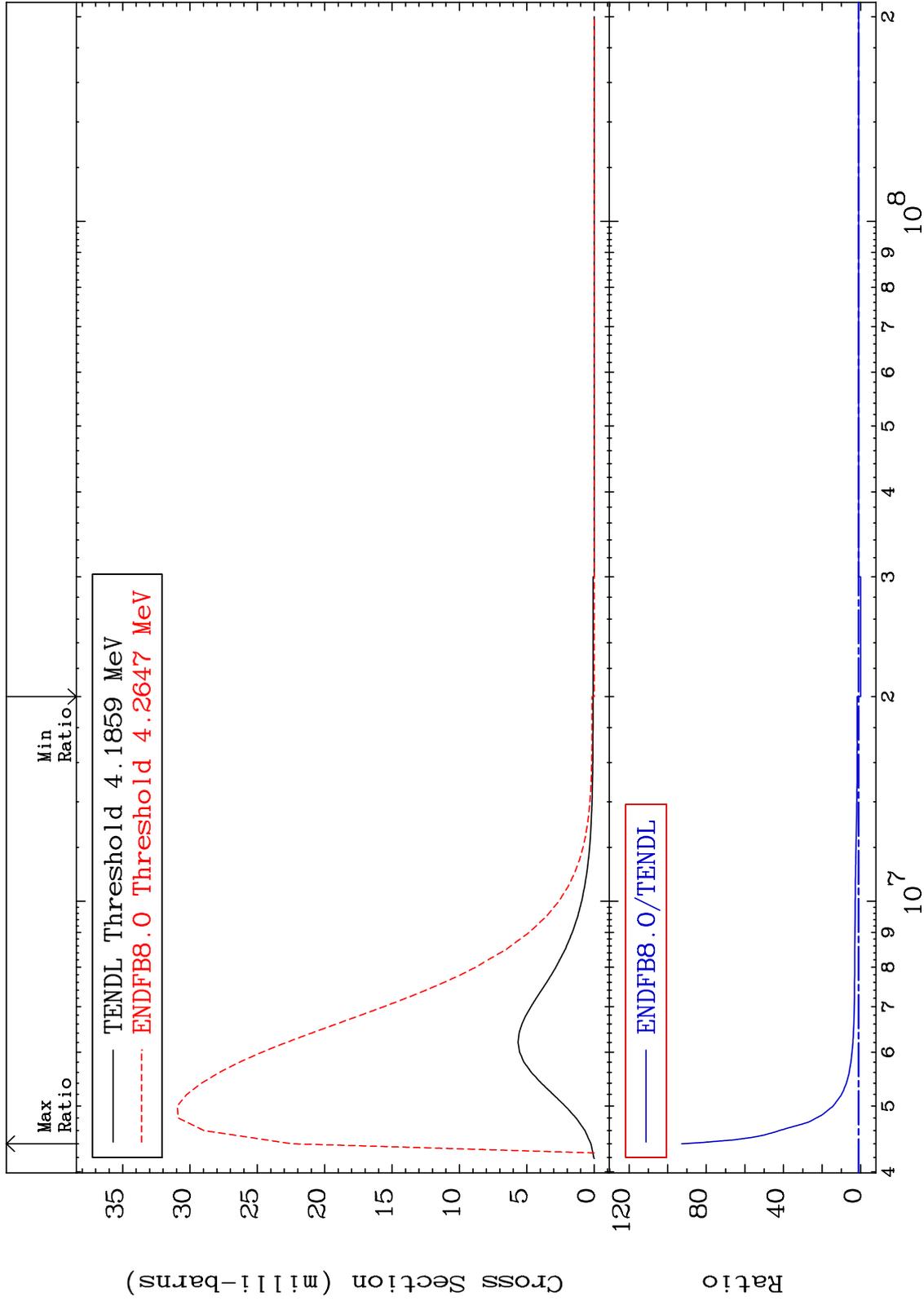
Incident Energy (eV)

20-Ca-44

MAT 2037

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

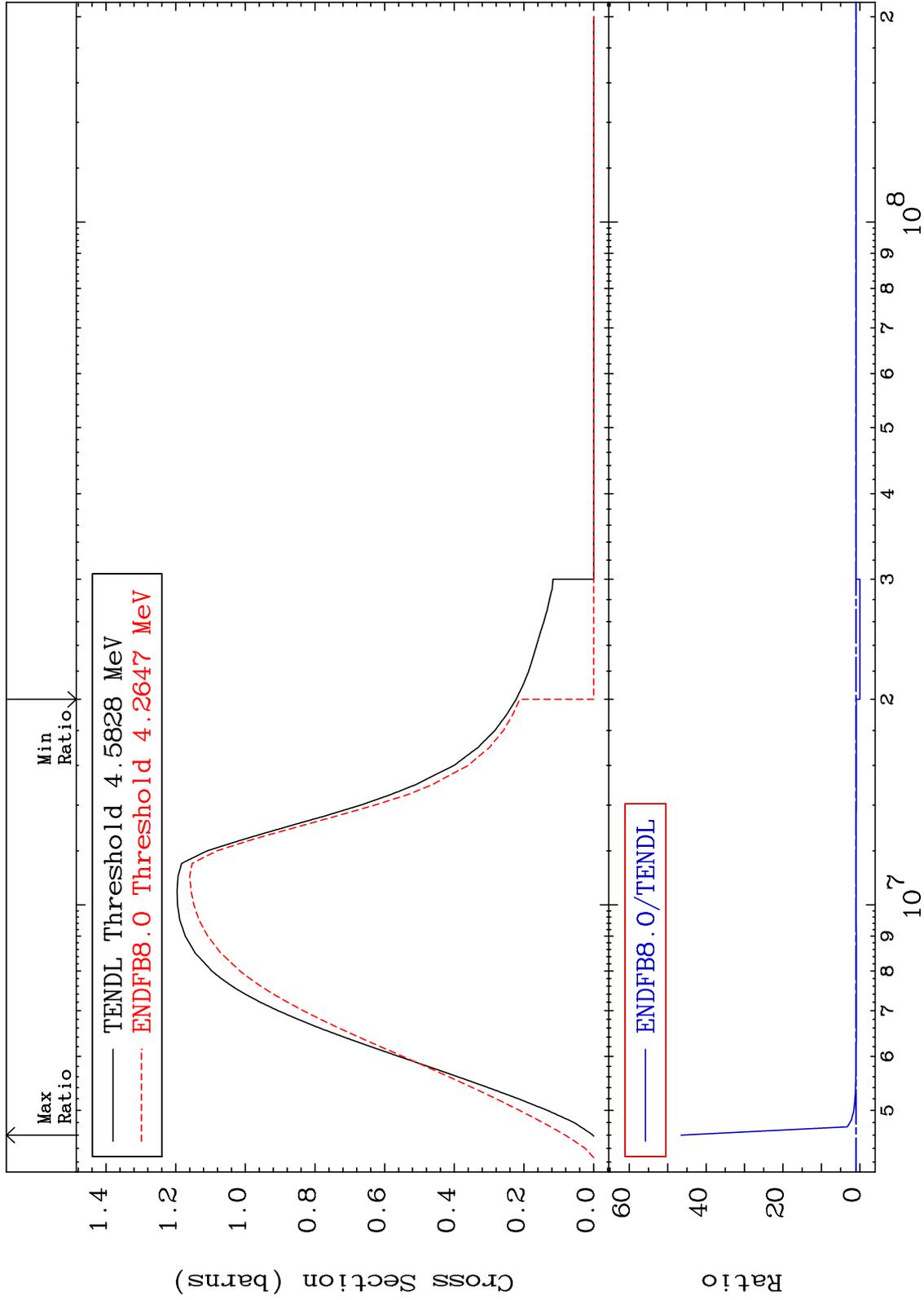
20-Ca-44
-100.0 To 9171. %



MAT 2037

(n,n') Continuum
Cross Section

20-Ca-44
-100.0 To 4549. %

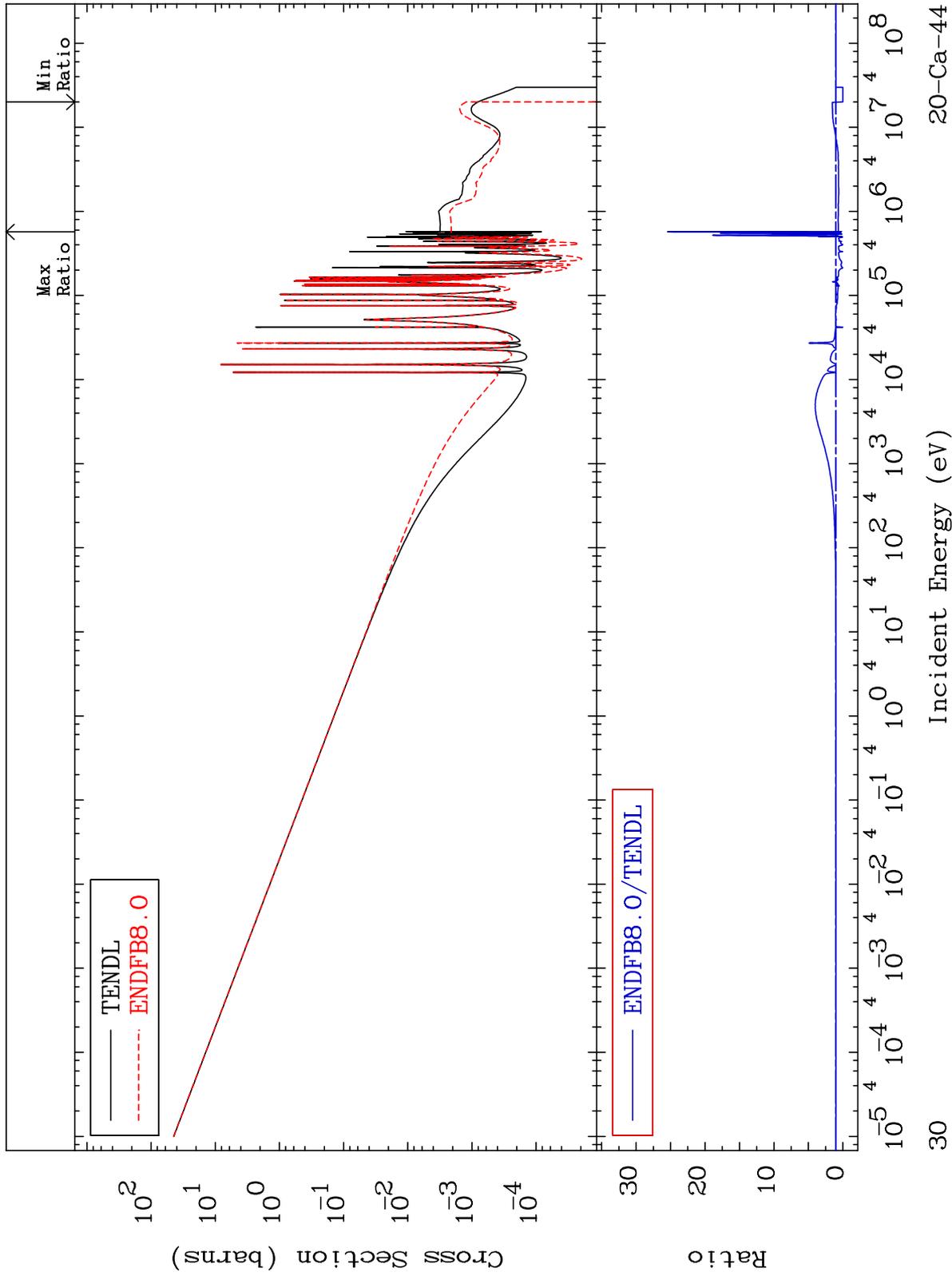


MAT 2037

(n, γ)
Cross Section

20-Ca-44

-100.0 To 2443. %



30

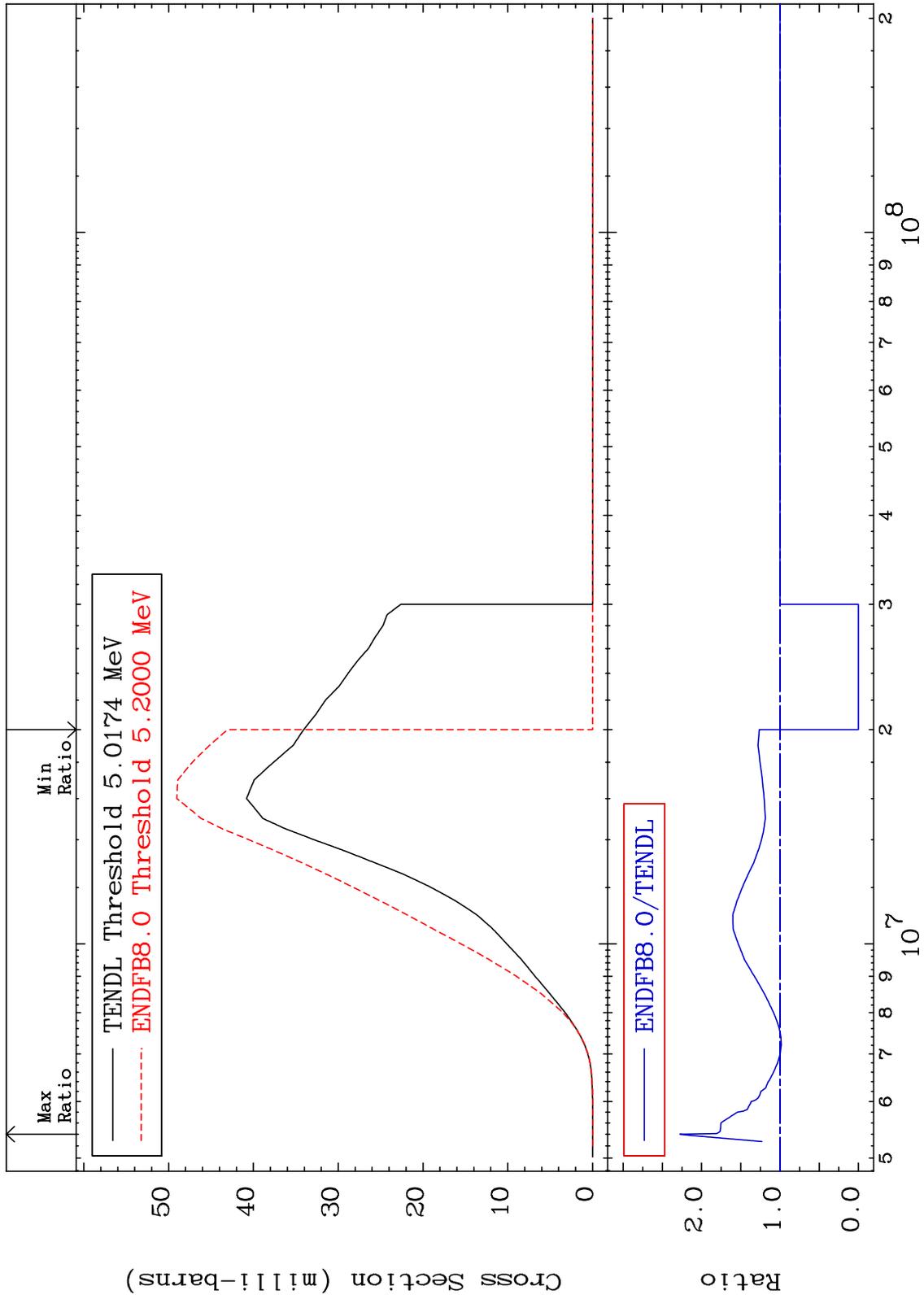
MAT 2037

(n,p)

20-Ca-44

Cross Section

-100.0 To 127.6 %



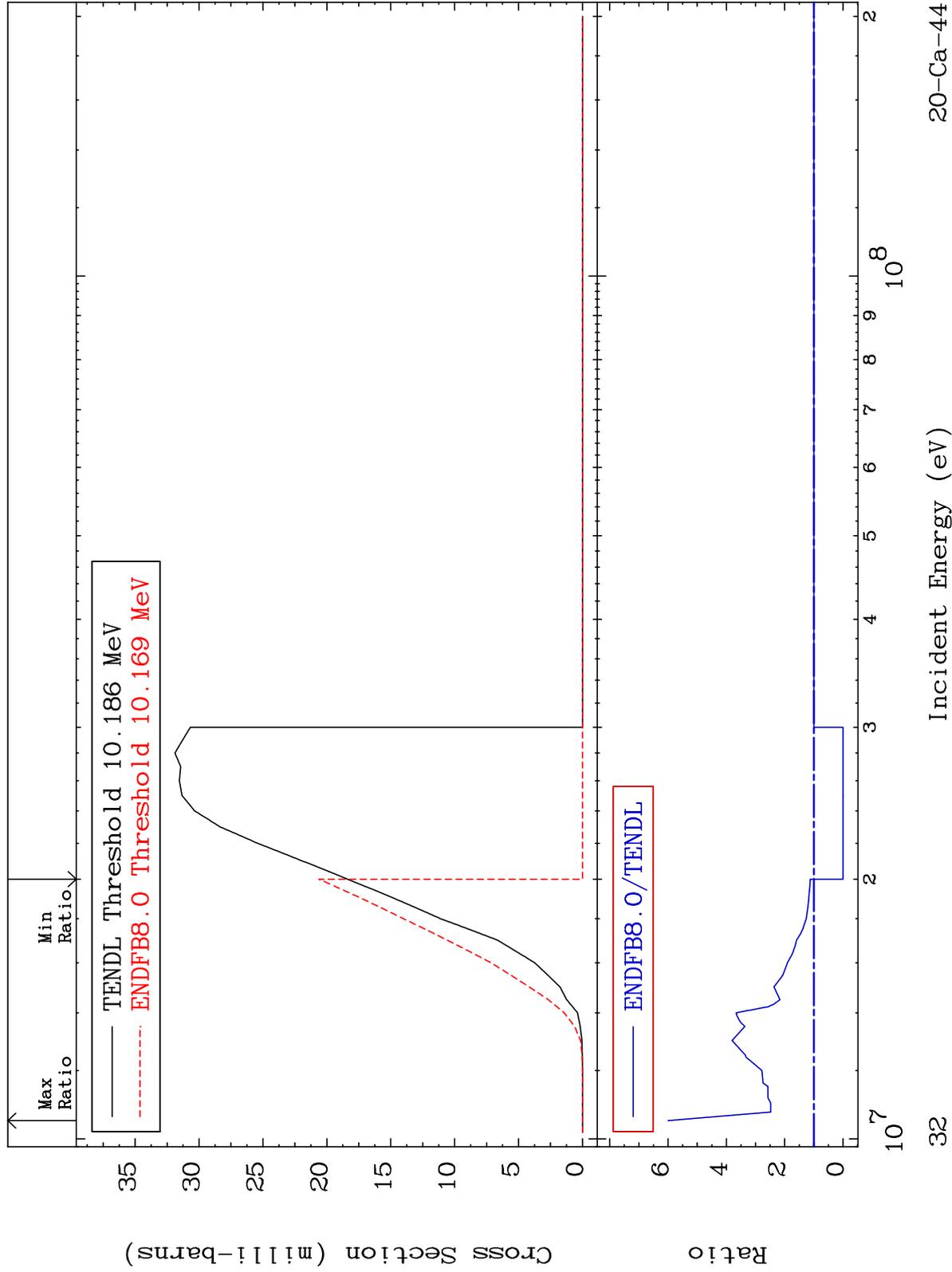
MAT 2037

(n,d)

20-Ca-44

Cross Section

-100.0 To 499.7 %



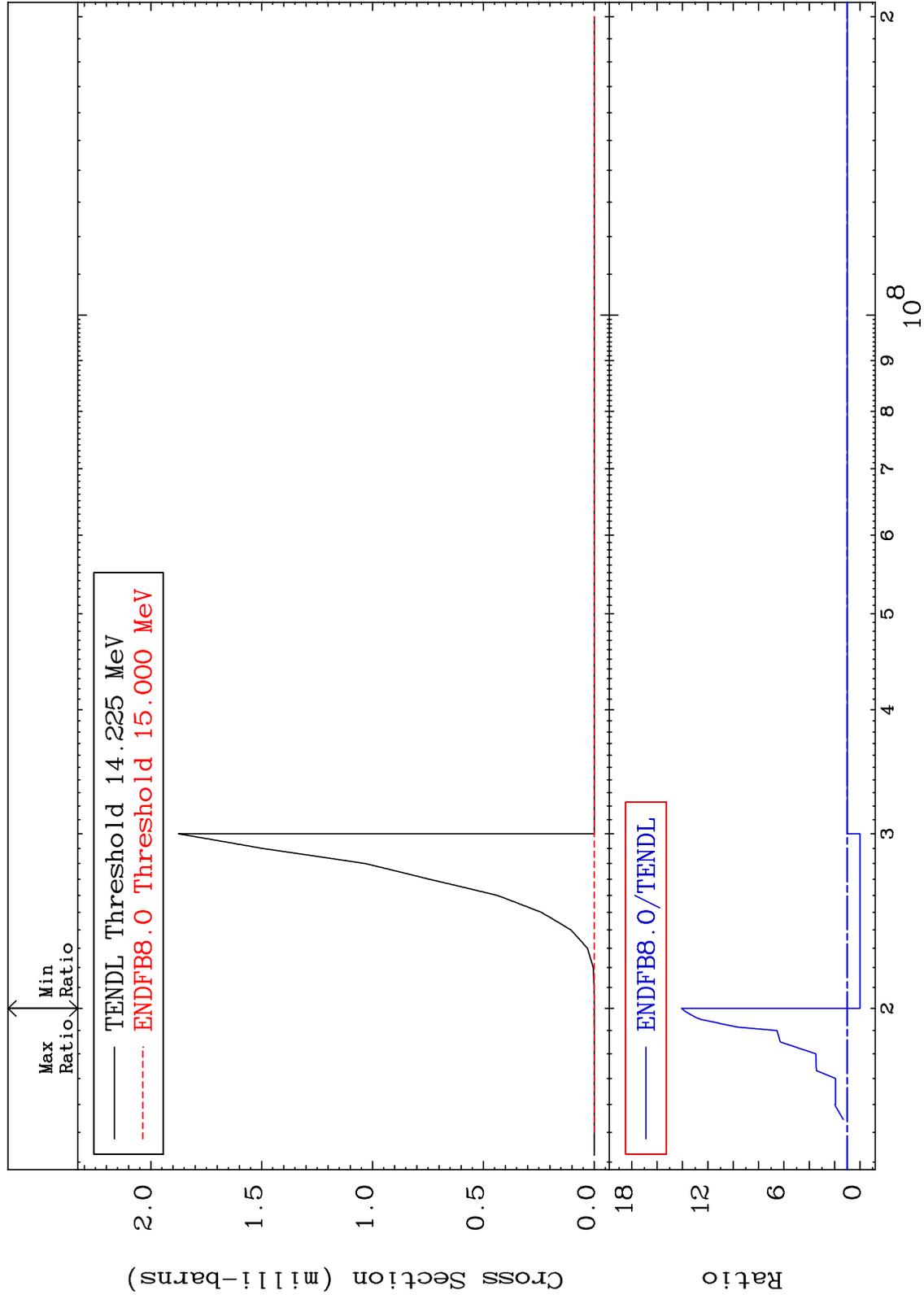
MAT 2037

(n, He-3)

20-Ca-44

Cross Section

-100.0 To 1307. %



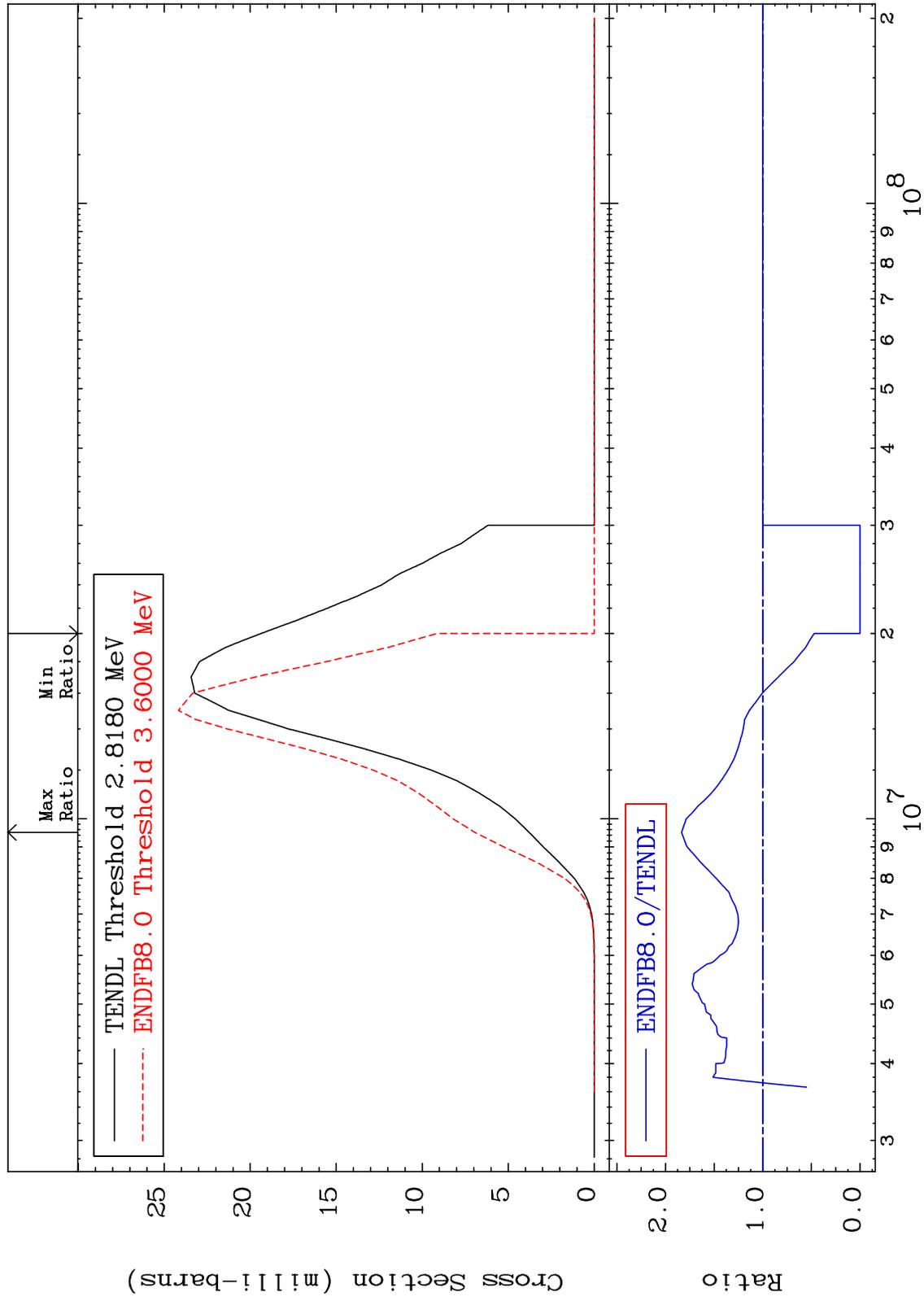
MAT 2037

(n, α)

20-Ca-44

Cross Section

-100.0 To 83.50 %



35

Incident Energy (eV)

20-Ca-44

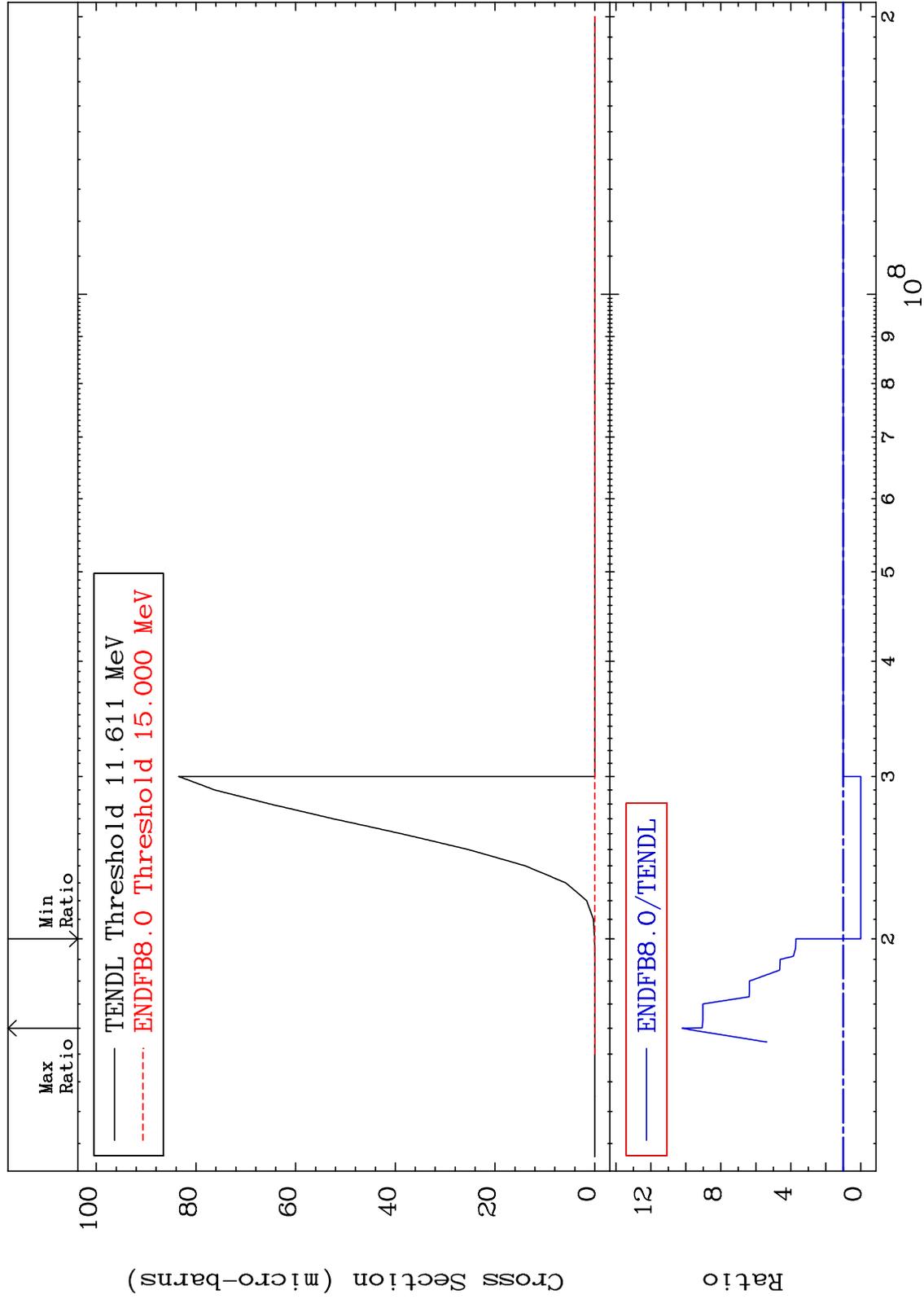
MAT 2037

(n, 2α)

20-Ca-44

Cross Section

-100.0 To 920.9 %



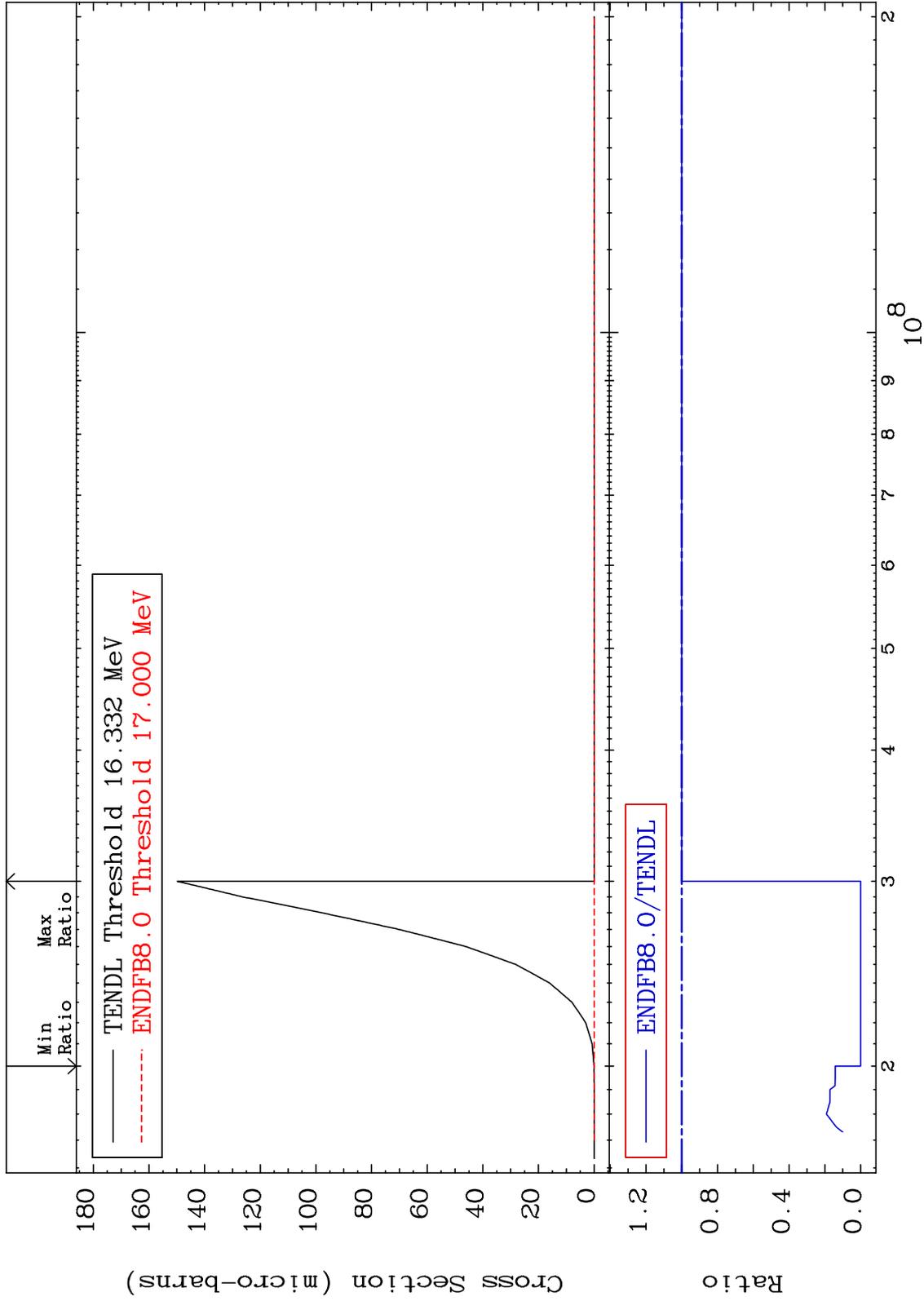
MAT 2037

(n,2p)

20-Ca-44

Cross Section

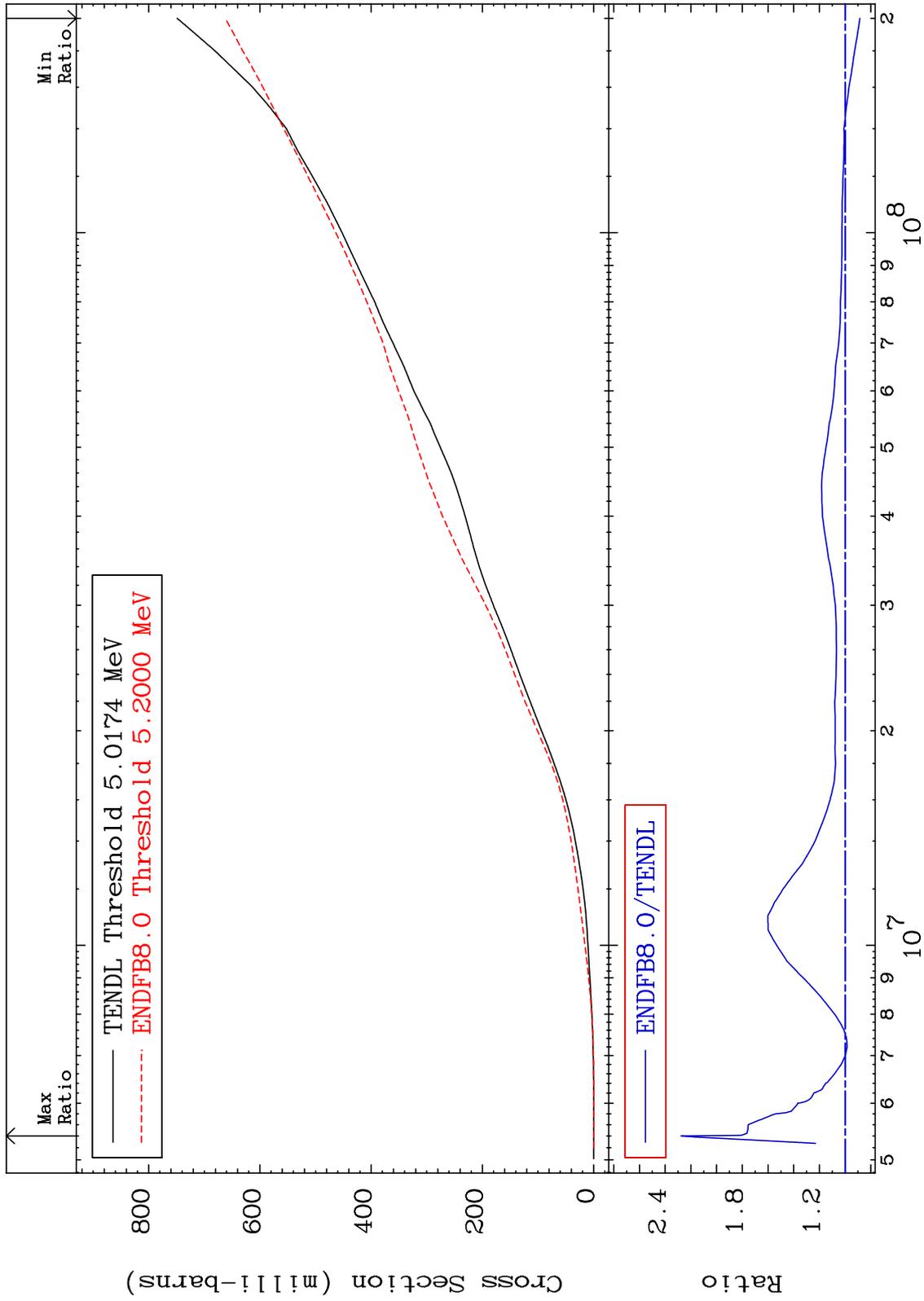
-100.0 To 0.000 %



MAT 2037

Hydrogen Production
Cross Section

20-Ca-44
-11.51 To 127.6 %



38

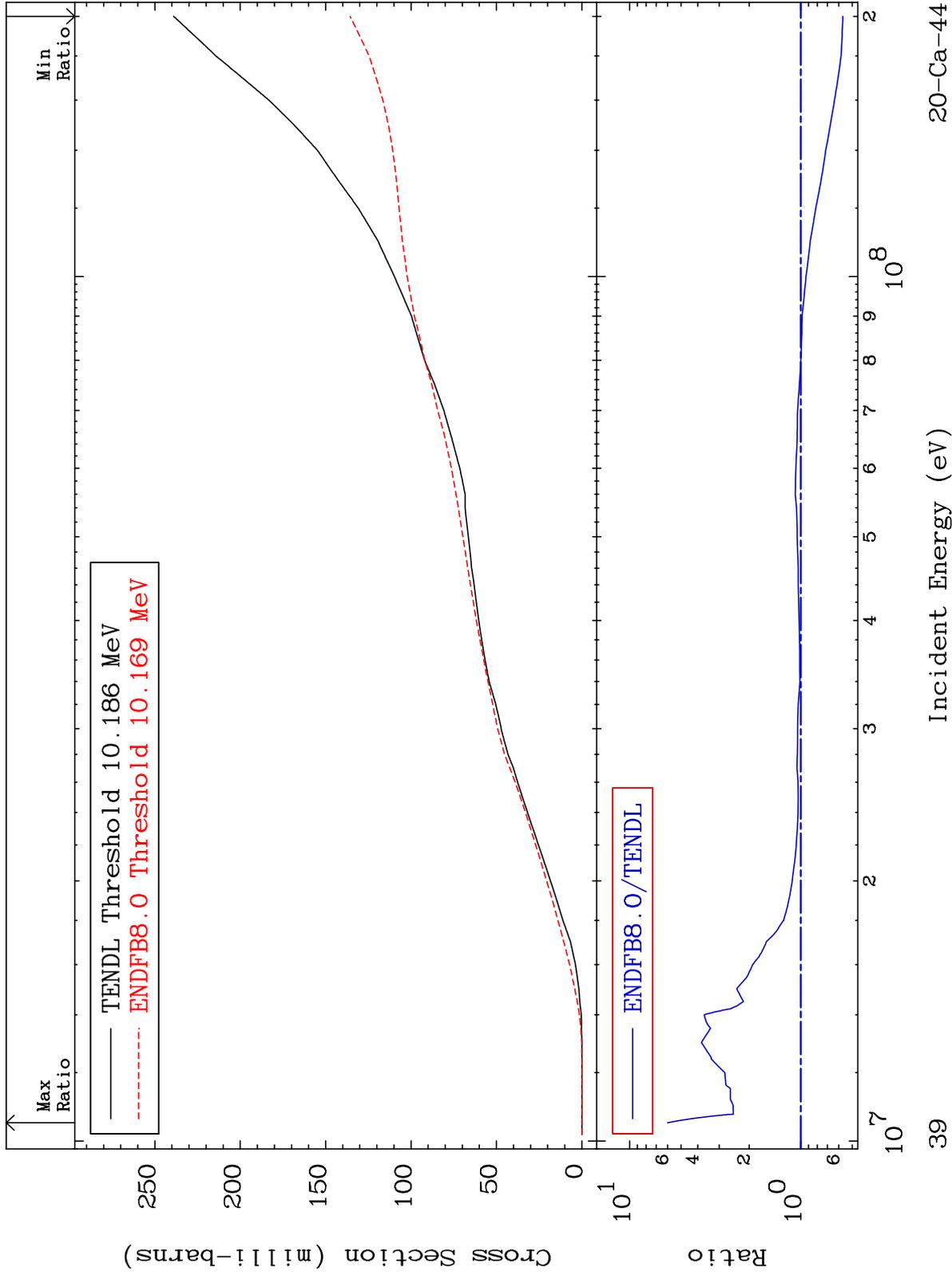
Incident Energy (eV)

20-Ca-44

MAT 2037

Deuterium Production
Cross Section

20-Ca-44
-43.22 To 499.7 %

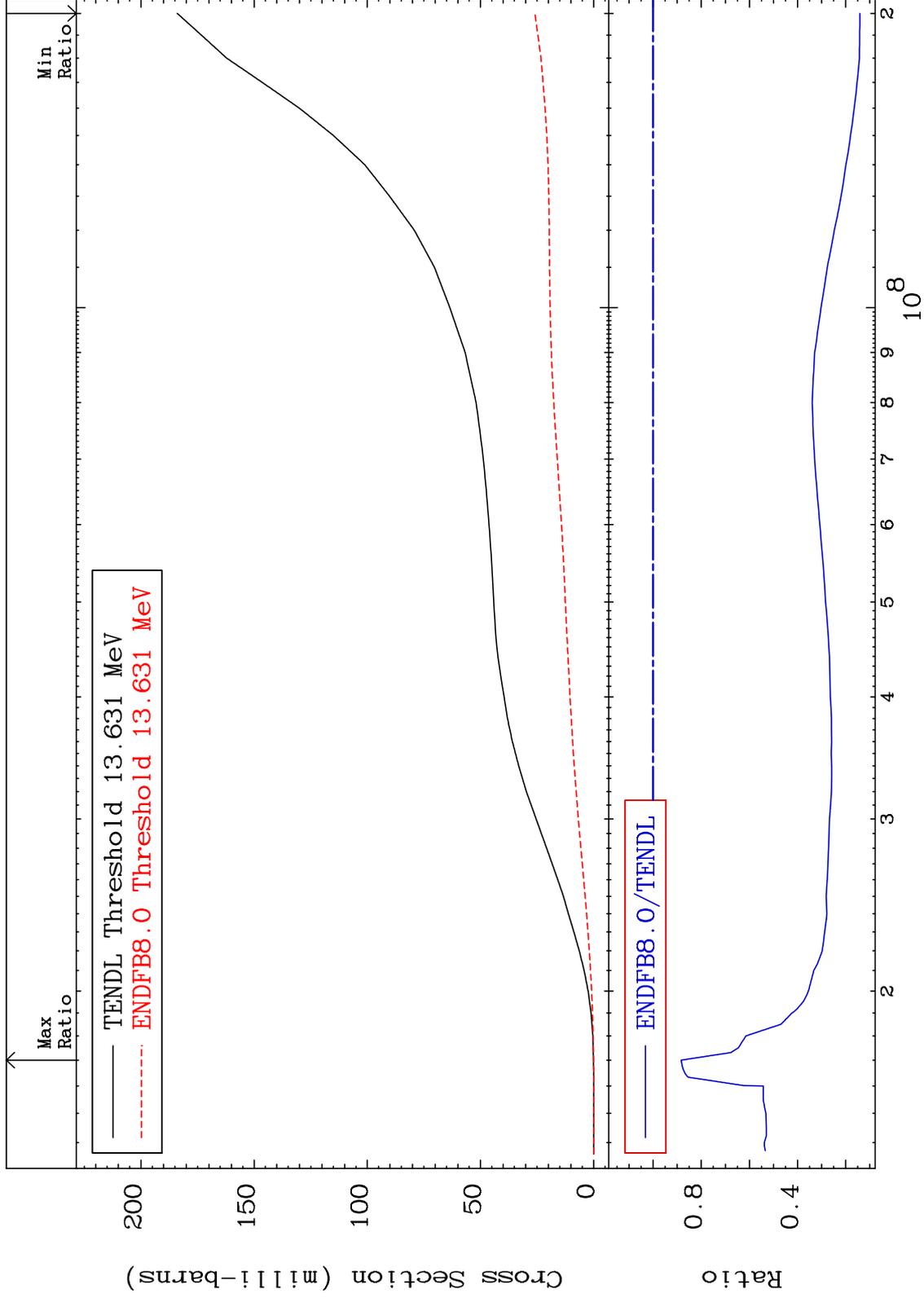


39

MAT 2037

Tritium Production
Cross Section

20-Ca-44
-85.89 To -11.64%



40

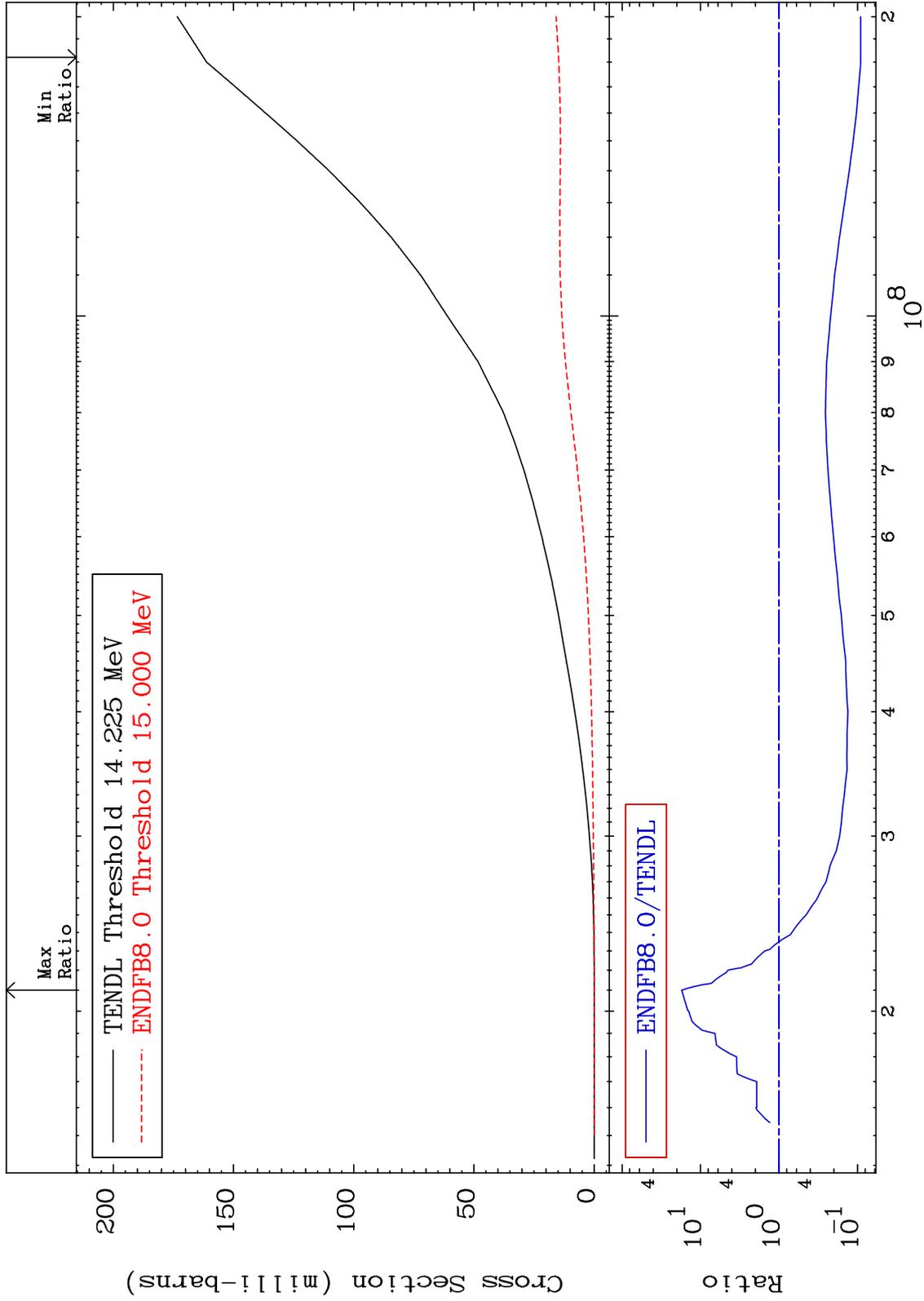
Incident Energy (eV)

20-Ca-44

MAT 2037

He-3 Production
Cross Section

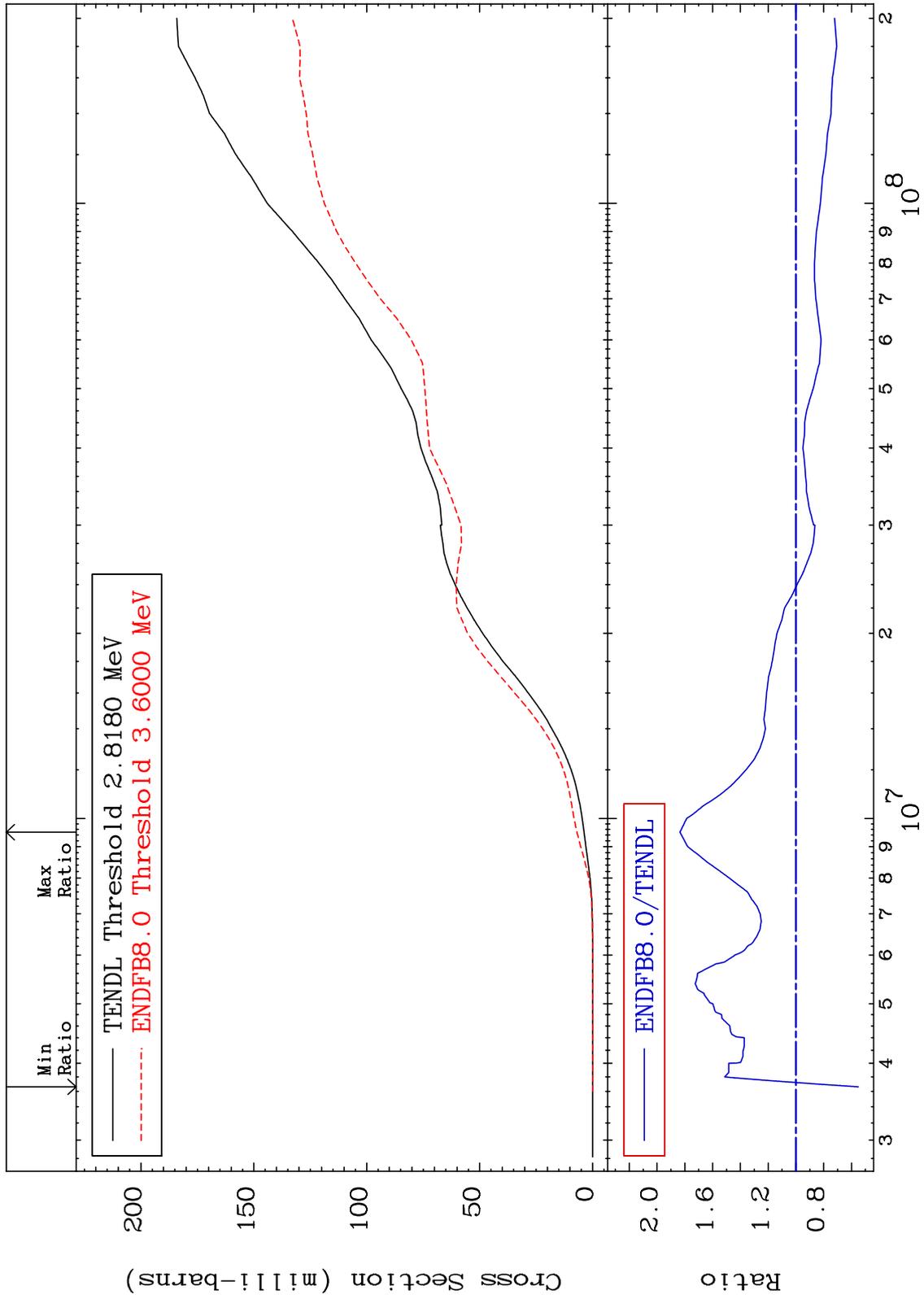
20-Ca-44
-90.89 To 1637. %



MAT 2037

He-4 Production
Cross Section

20-Ca-44
-44.96 To 83.50 %



42

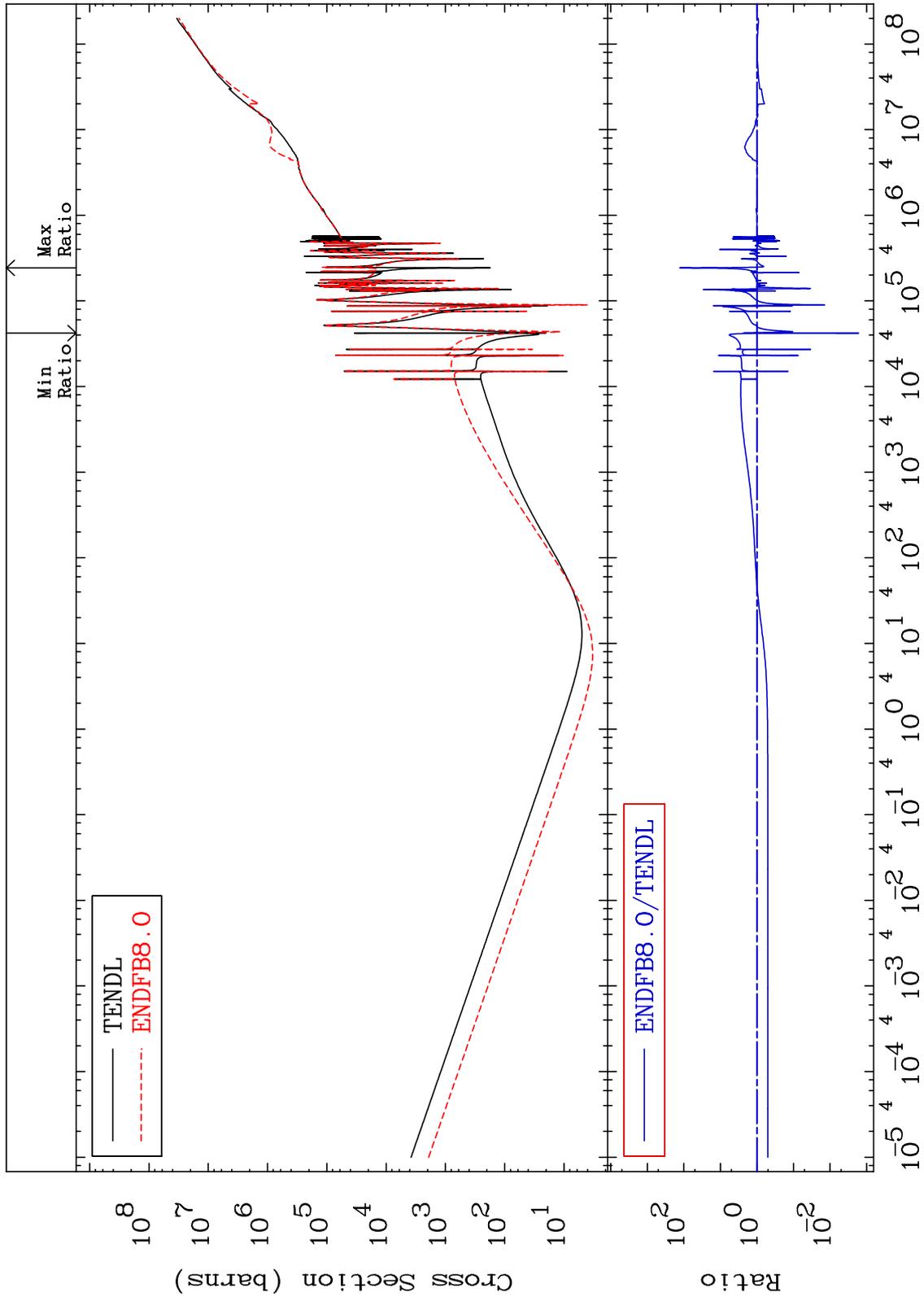
Incident Energy (eV)

20-Ca-44

MAT 2037

Kerma total (eV-barns)
Cross Section

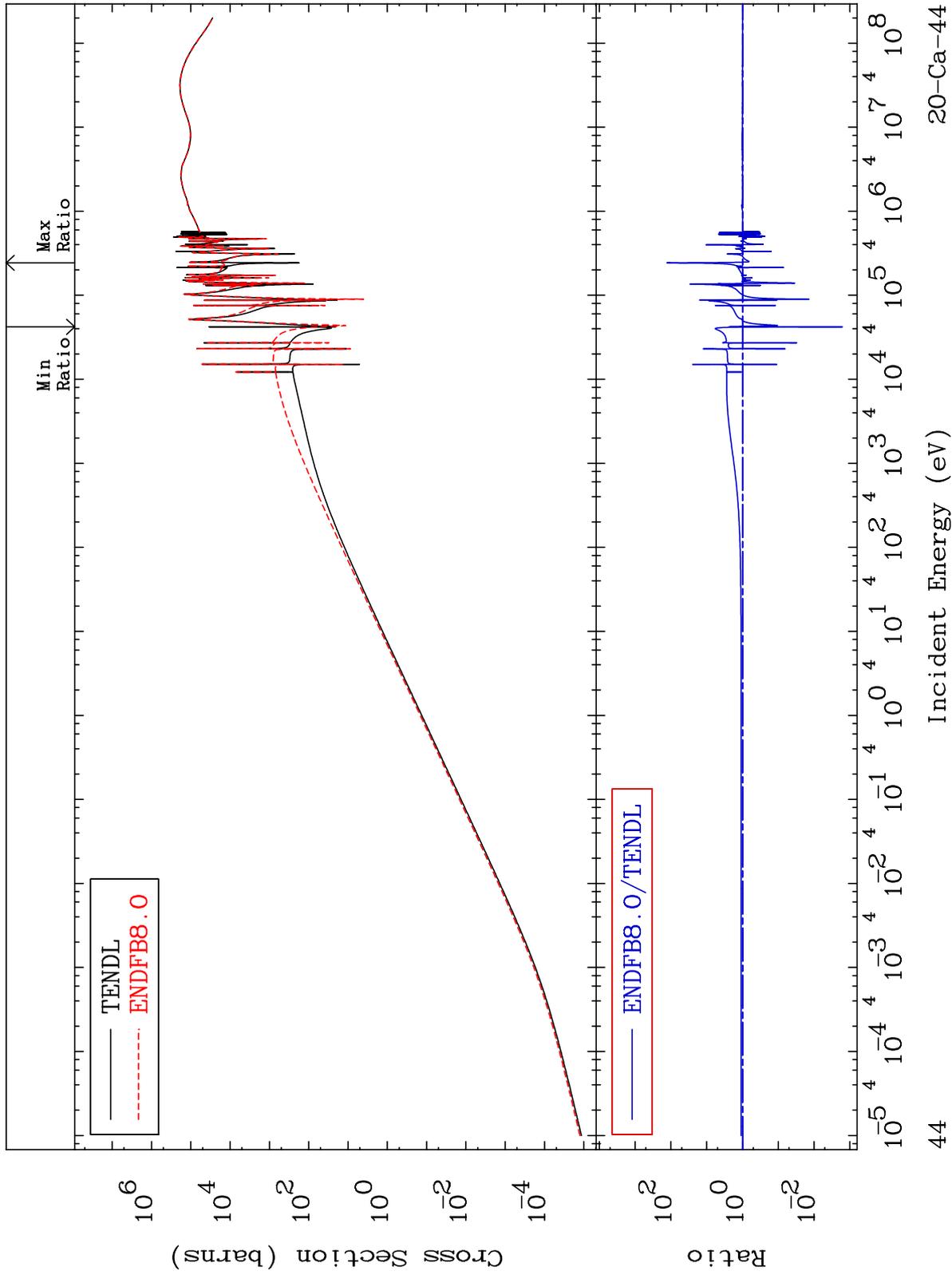
20-Ca-44
-99.83 To 9999. %



MAT 2037

Kerma elastic
Cross Section

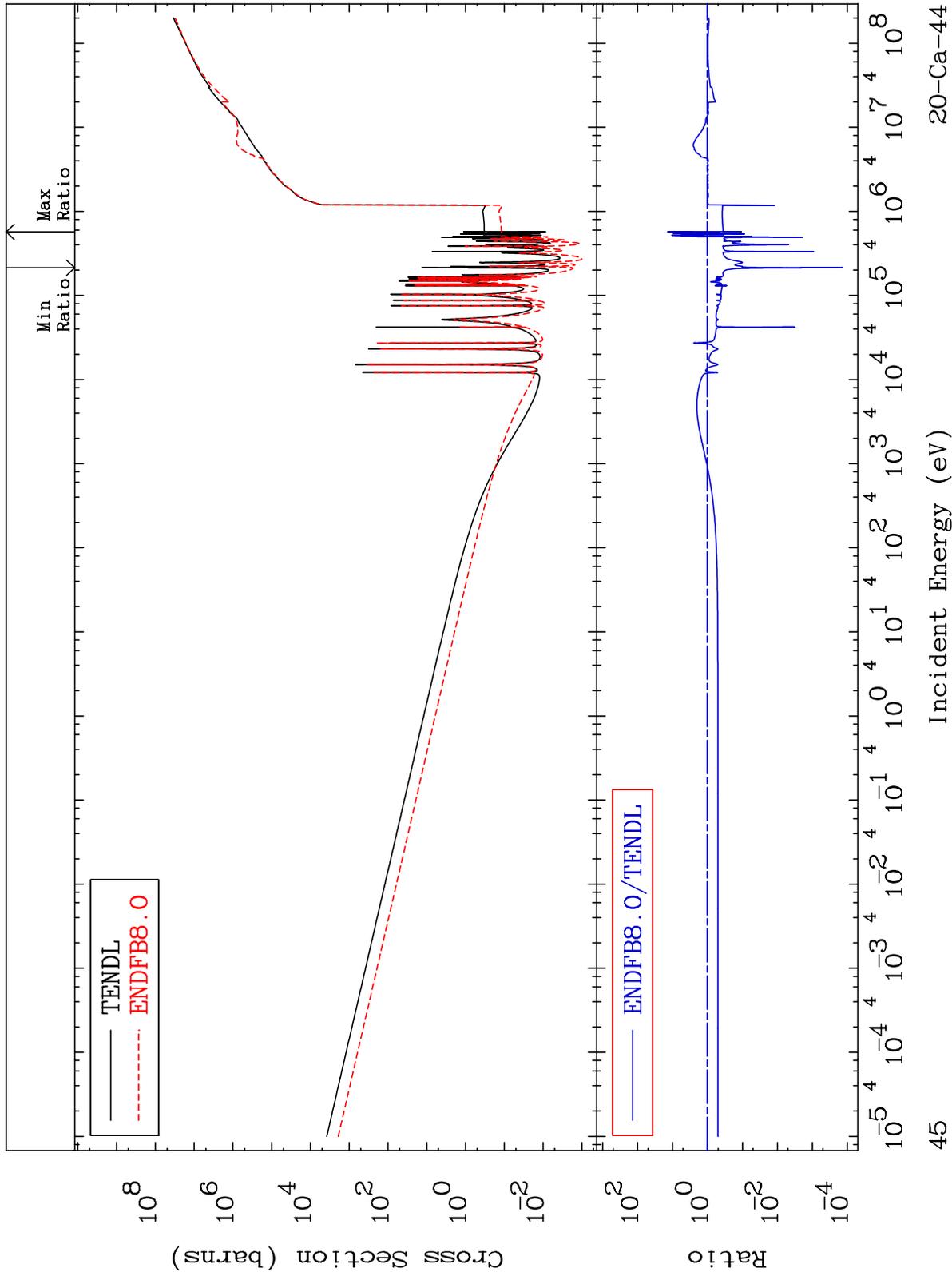
20-Ca-44
-99.84 To 9999. %

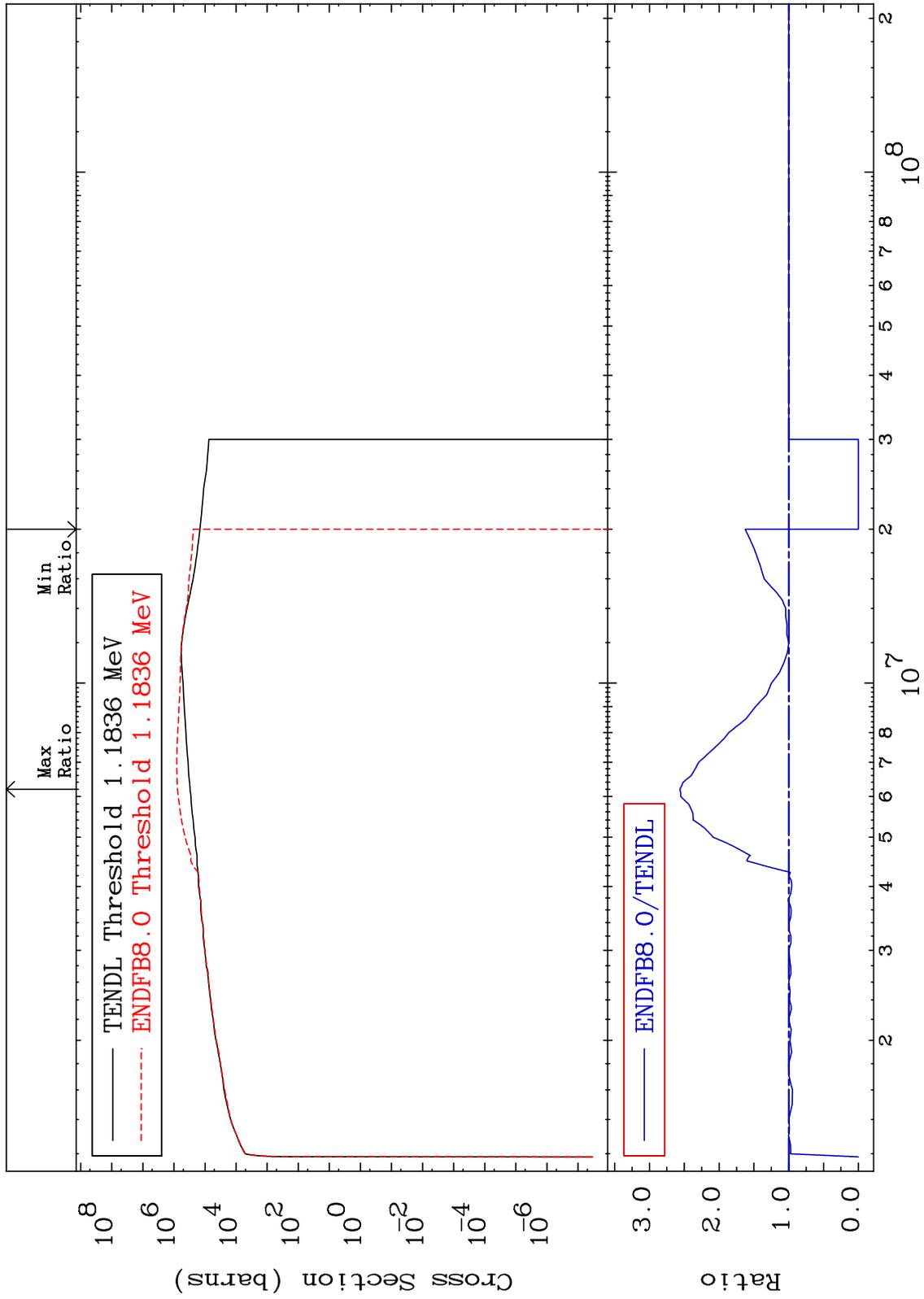


MAT 2037

Kerma non-elastic (all but mt2)
Cross Section

20-Ca-44
-99.99 To 1282. %

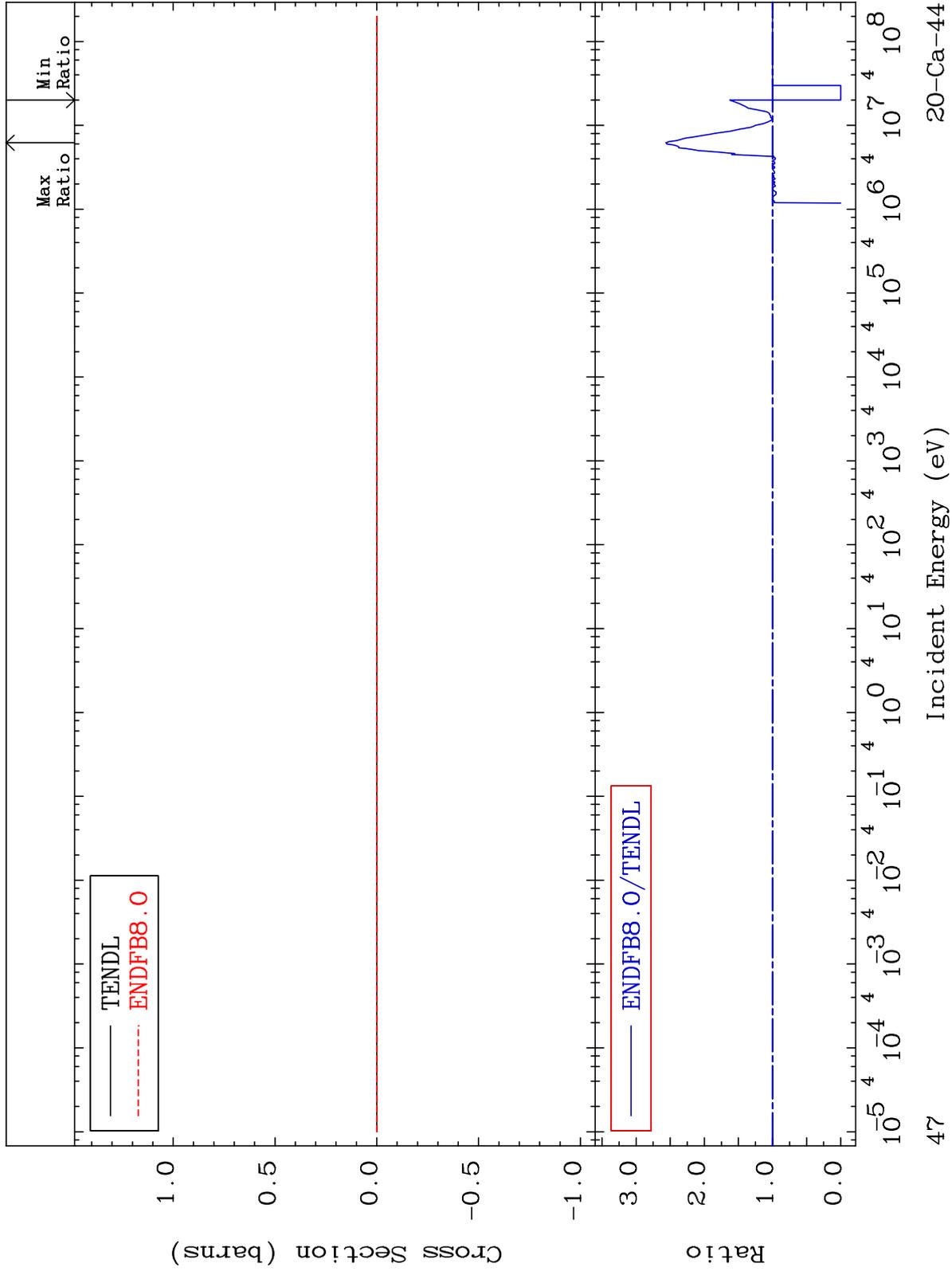




MAT 2037

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

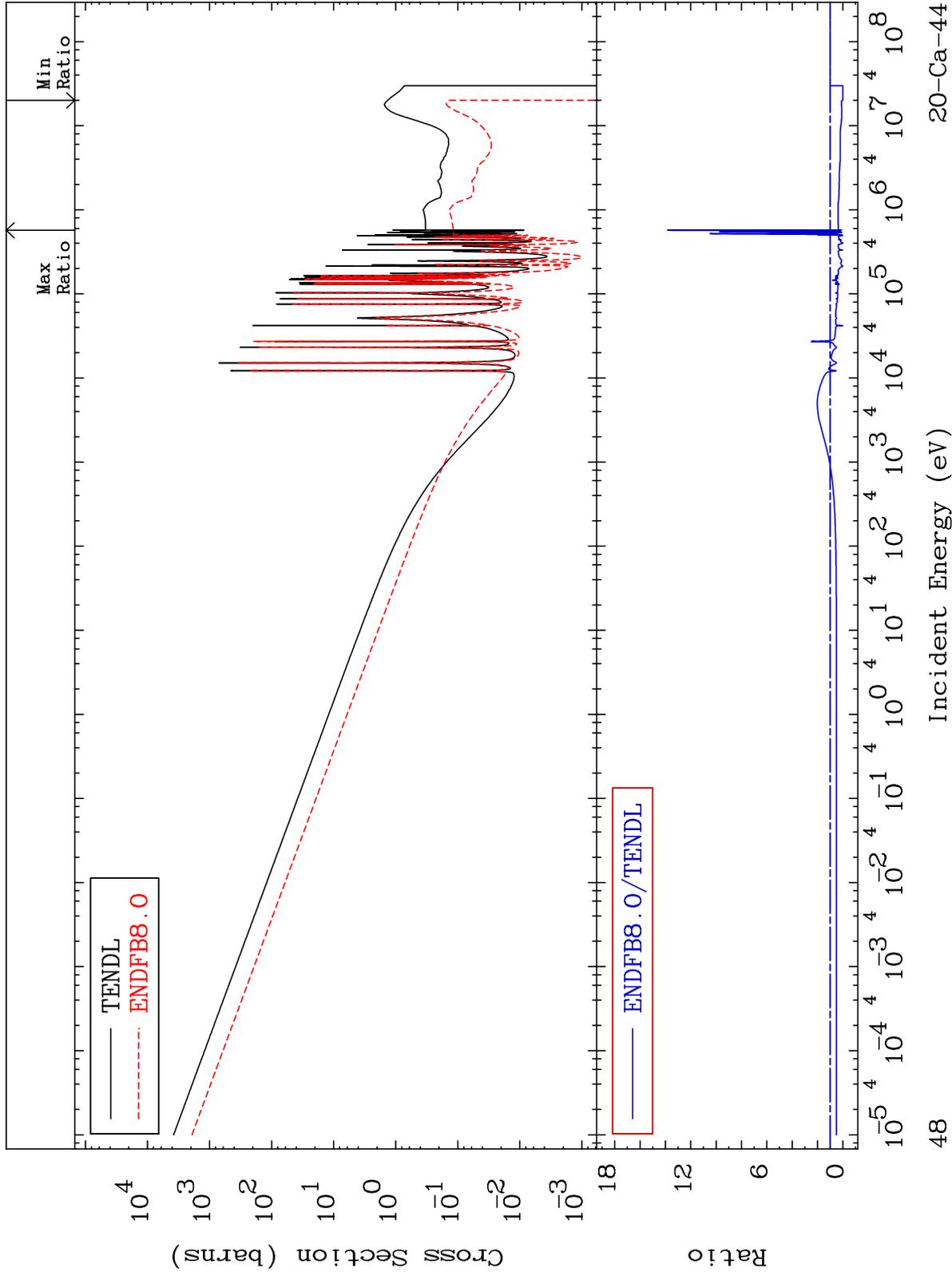
20-Ca-44
-100.0 To 156.3 %



MAT 2037

Kerma capture (mt102)
Cross Section

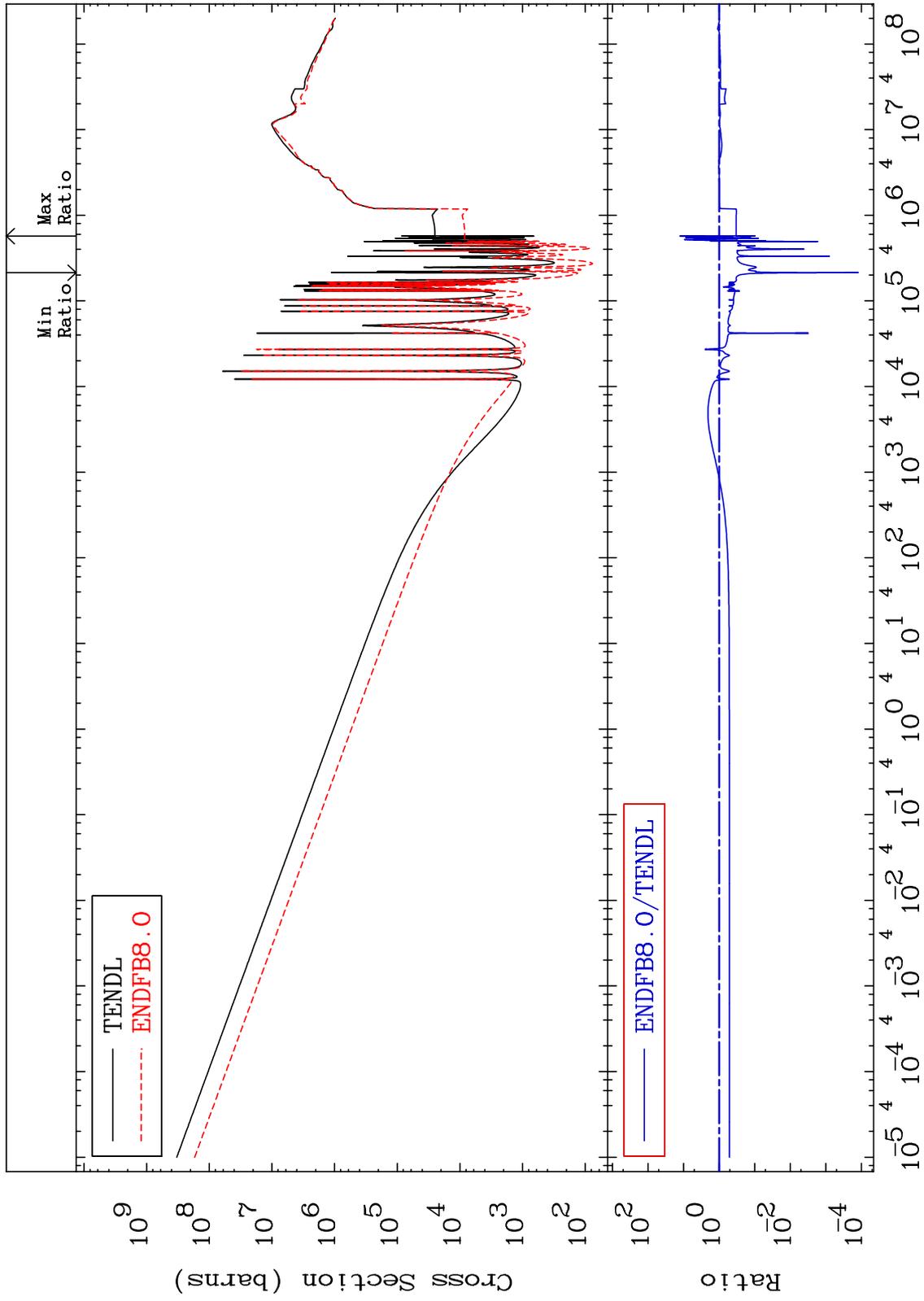
20-Ca-44
-100.0 To 1282. %



MAT 2037

Total photon (eV-barns)
Cross Section

20-Ca-44
-99.99 To 1163. %



49

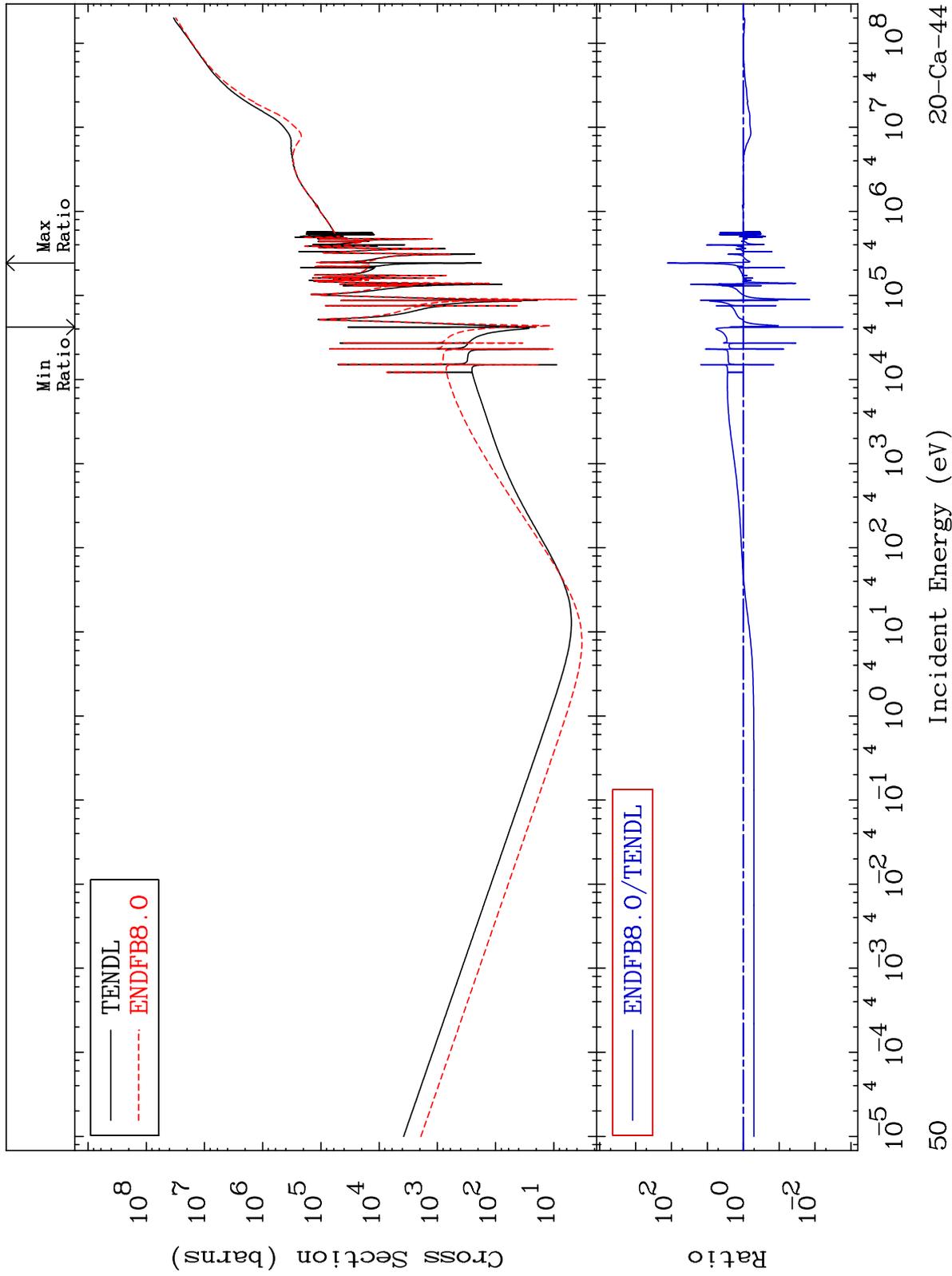
Incident Energy (eV)

20-Ca-44

MAT 2037

Total kinematic kerma (high limit)
Cross Section

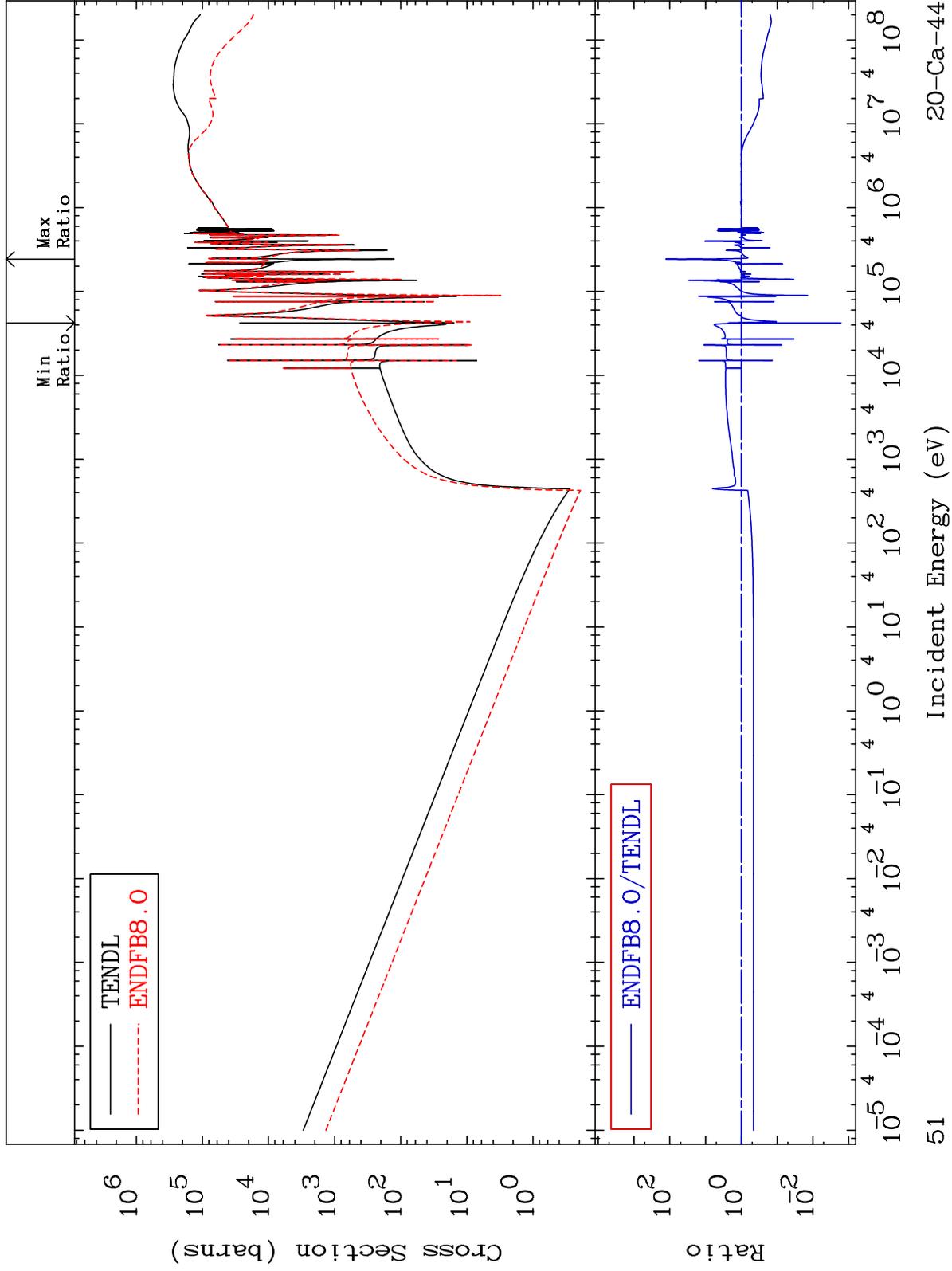
20-Ca-44
-99.83 To 9999. %



MAT 2037

Dpa total (eV-barns)
Cross Section

20-Ca-44
-99.83 To 9999. %

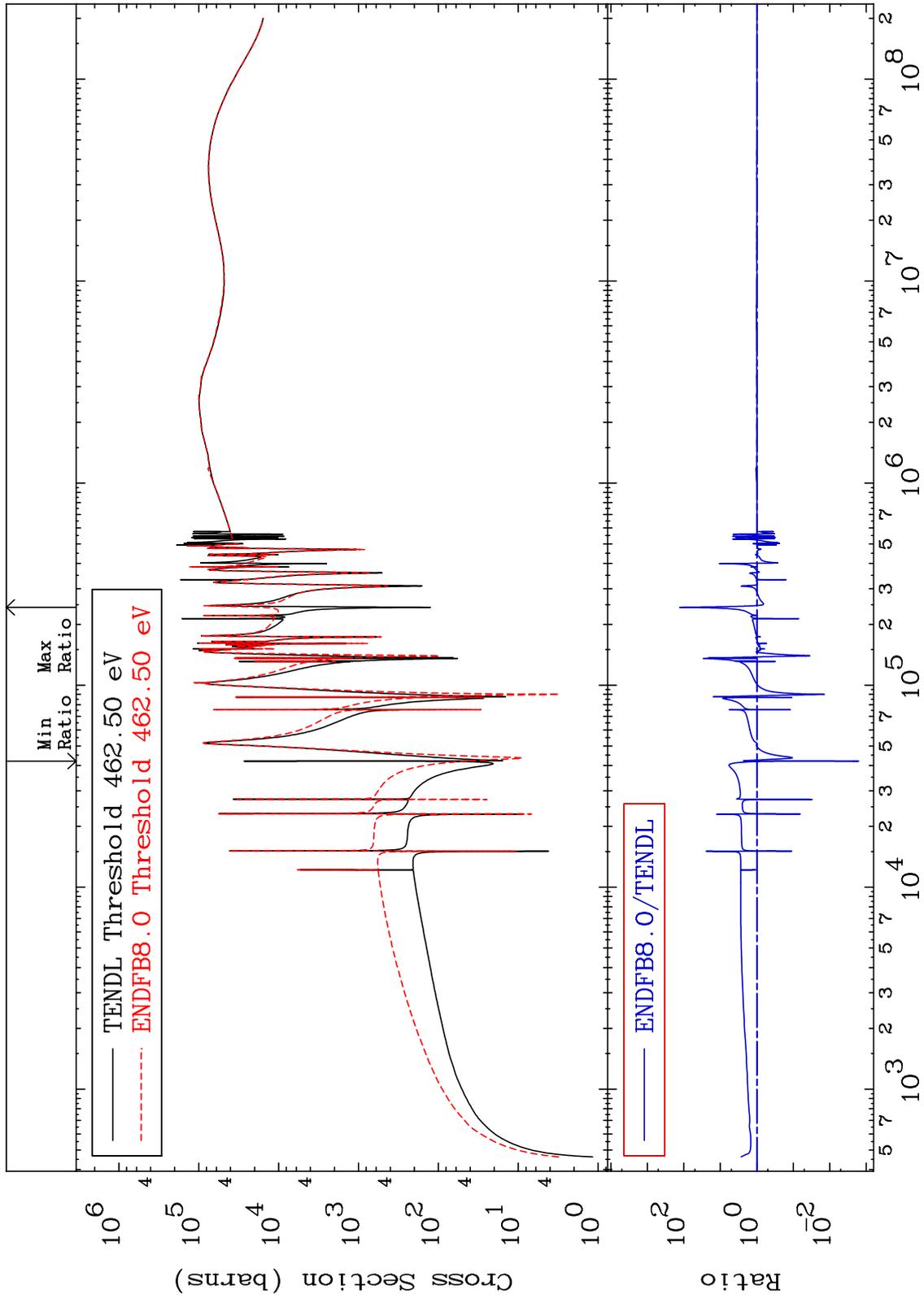


MAT 2037

Dpa elastic (mt2)
Cross Section

20-Ca-44

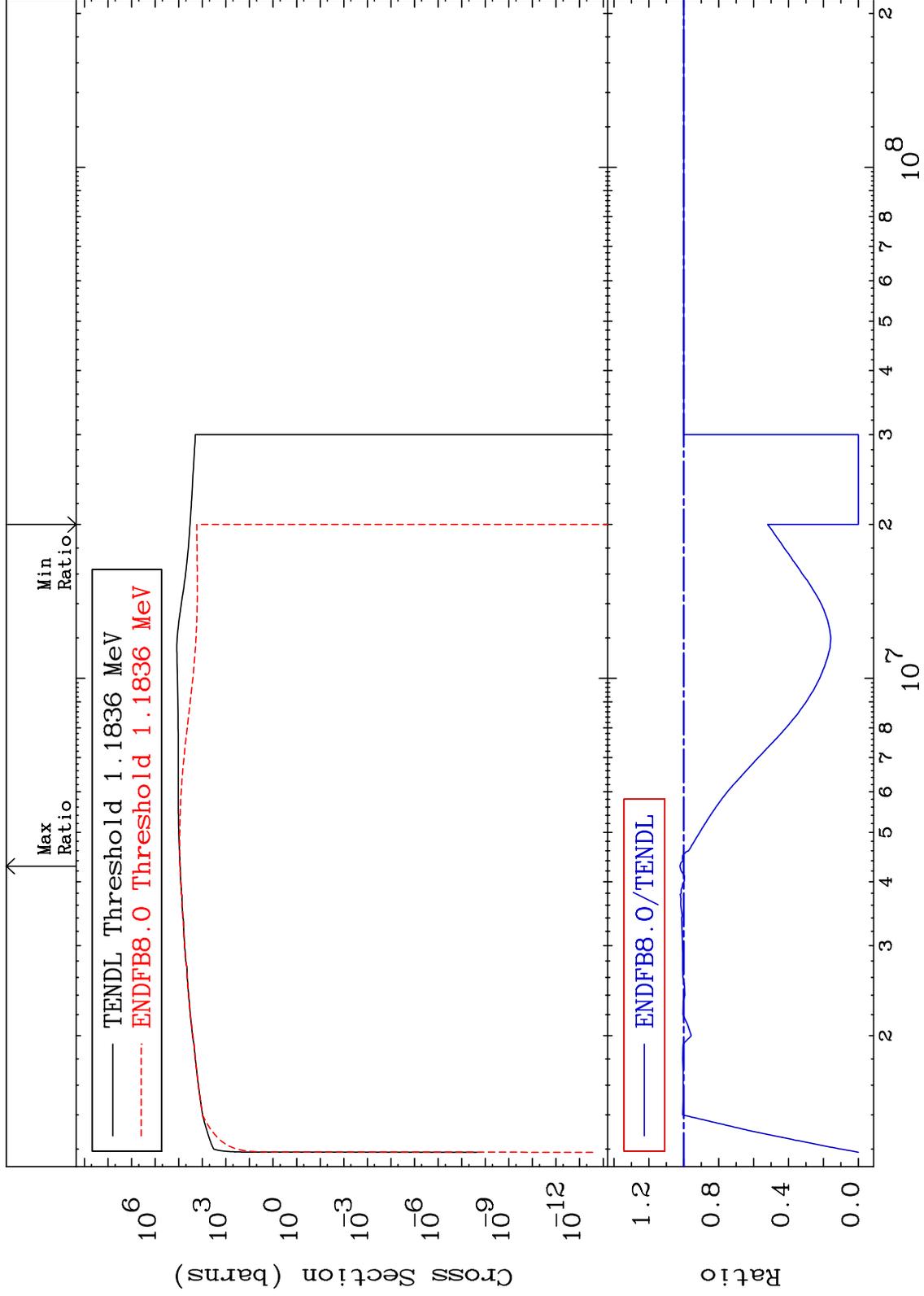
-99.84 To 9999. %



52

Incident Energy (eV)

20-Ca-44



MAT 2037

Dpa disappearance (mt102 -120)
Cross Section

20-Ca-44
-100.0 To 1211. %

