

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

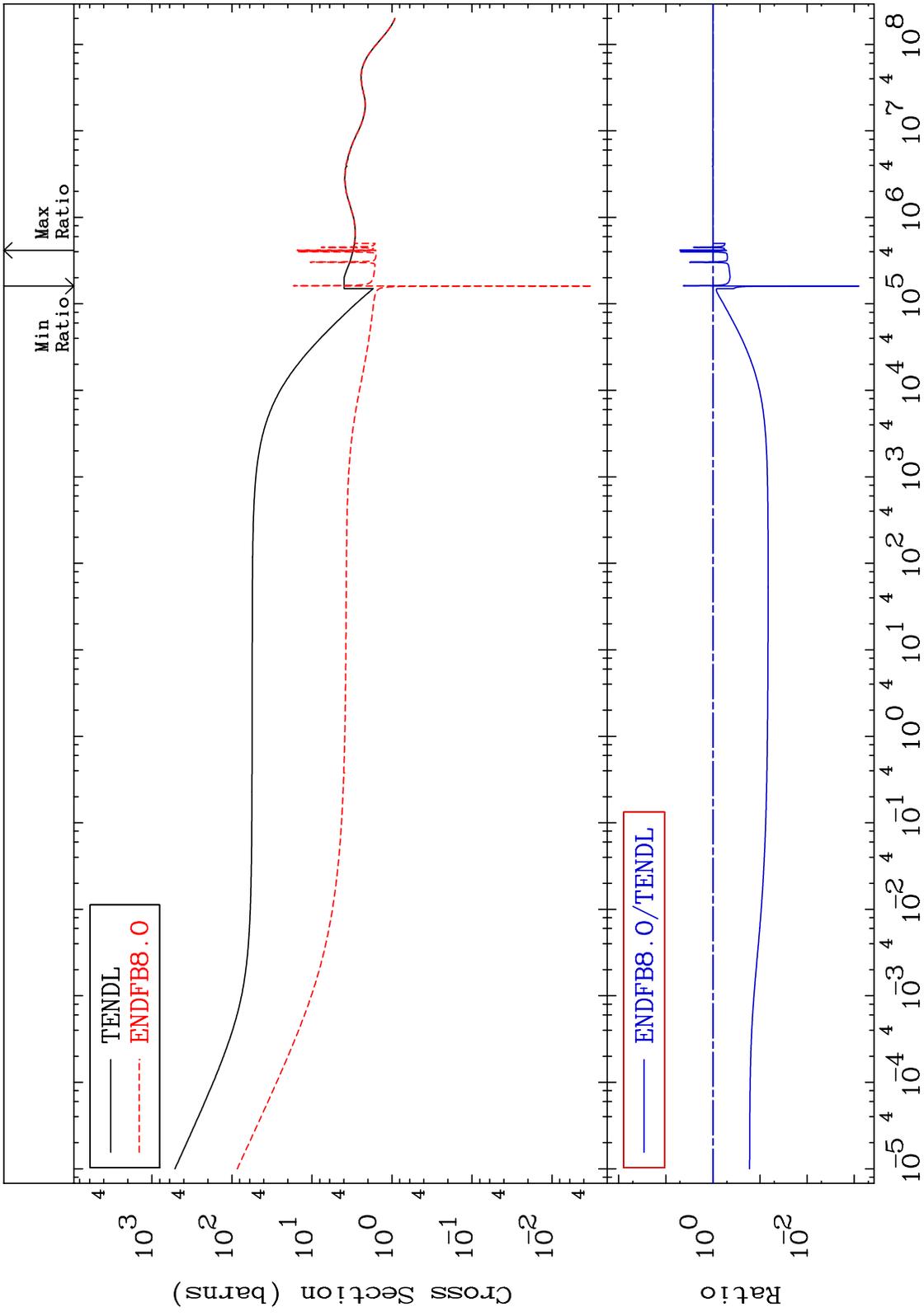
U.S.A.

Tele: 925-443-1911

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

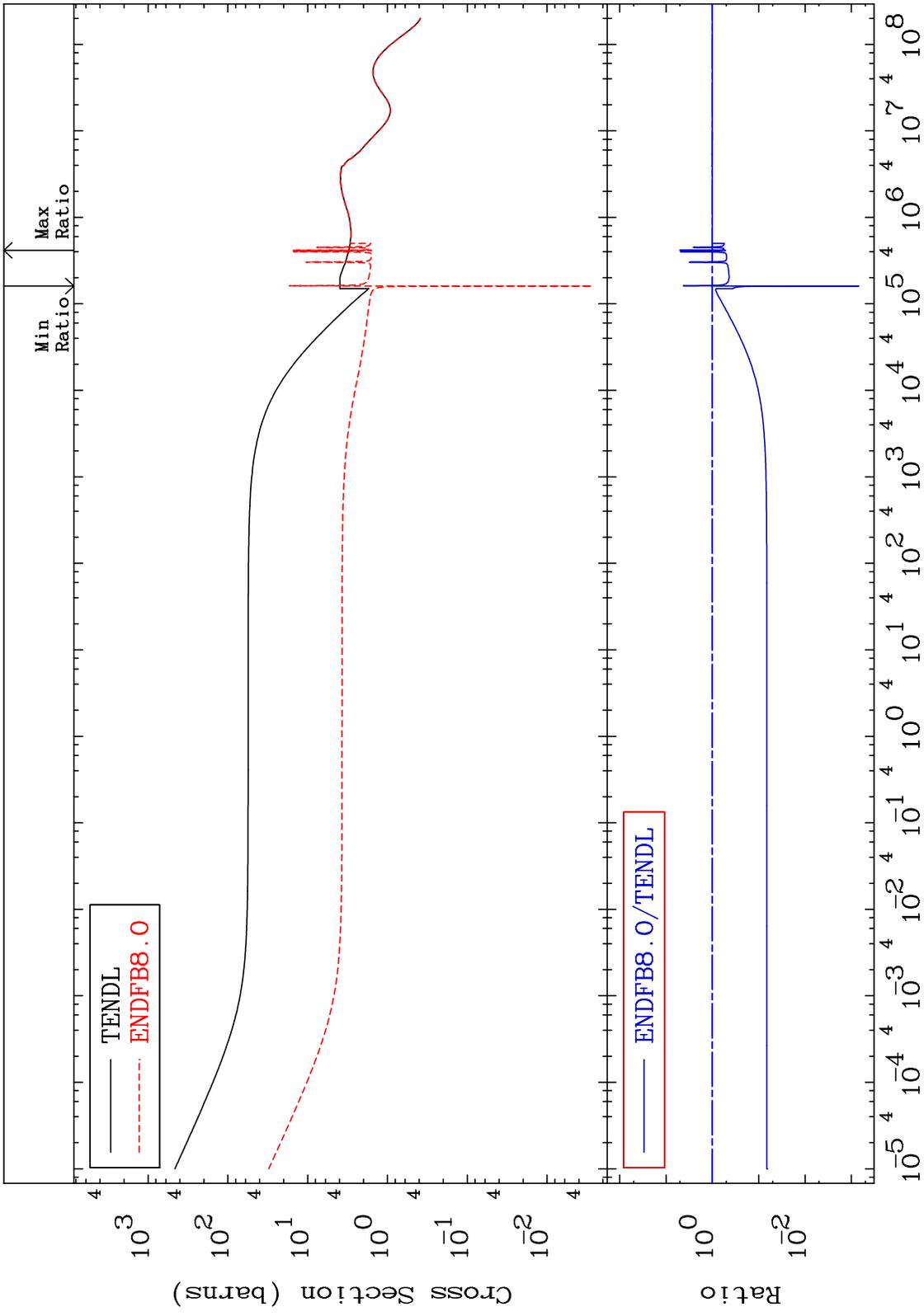
Press Mouse Button to Start

MAT 2049 Total Cross Section 20-Ca-48 -99.92 To 405.5 %



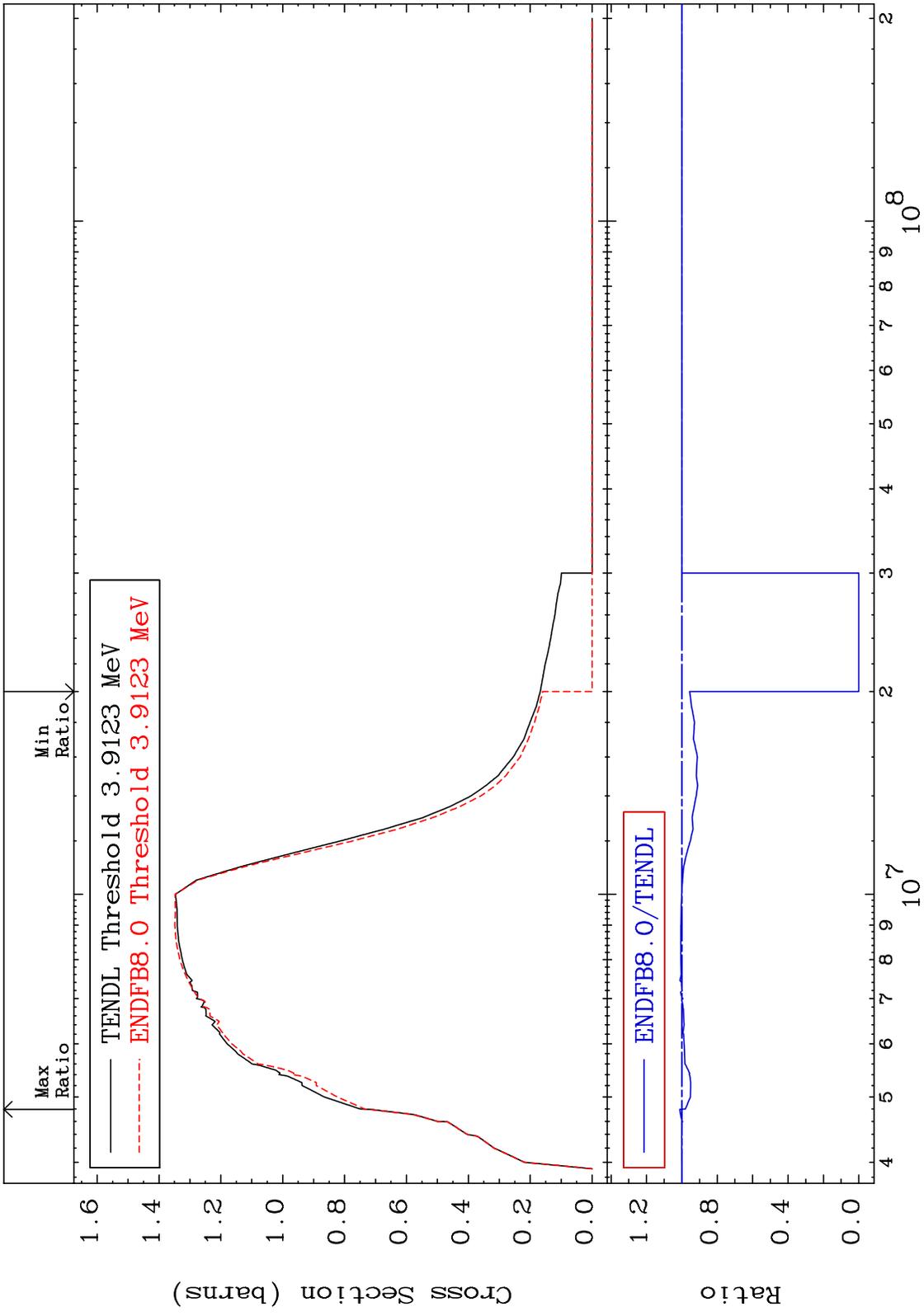
1 Incident Energy (eV) 20-Ca-48

MAT 2049 Elastic Cross Section 20-Ca-48 -99.93 To 405.0 %



2 20-Ca-48

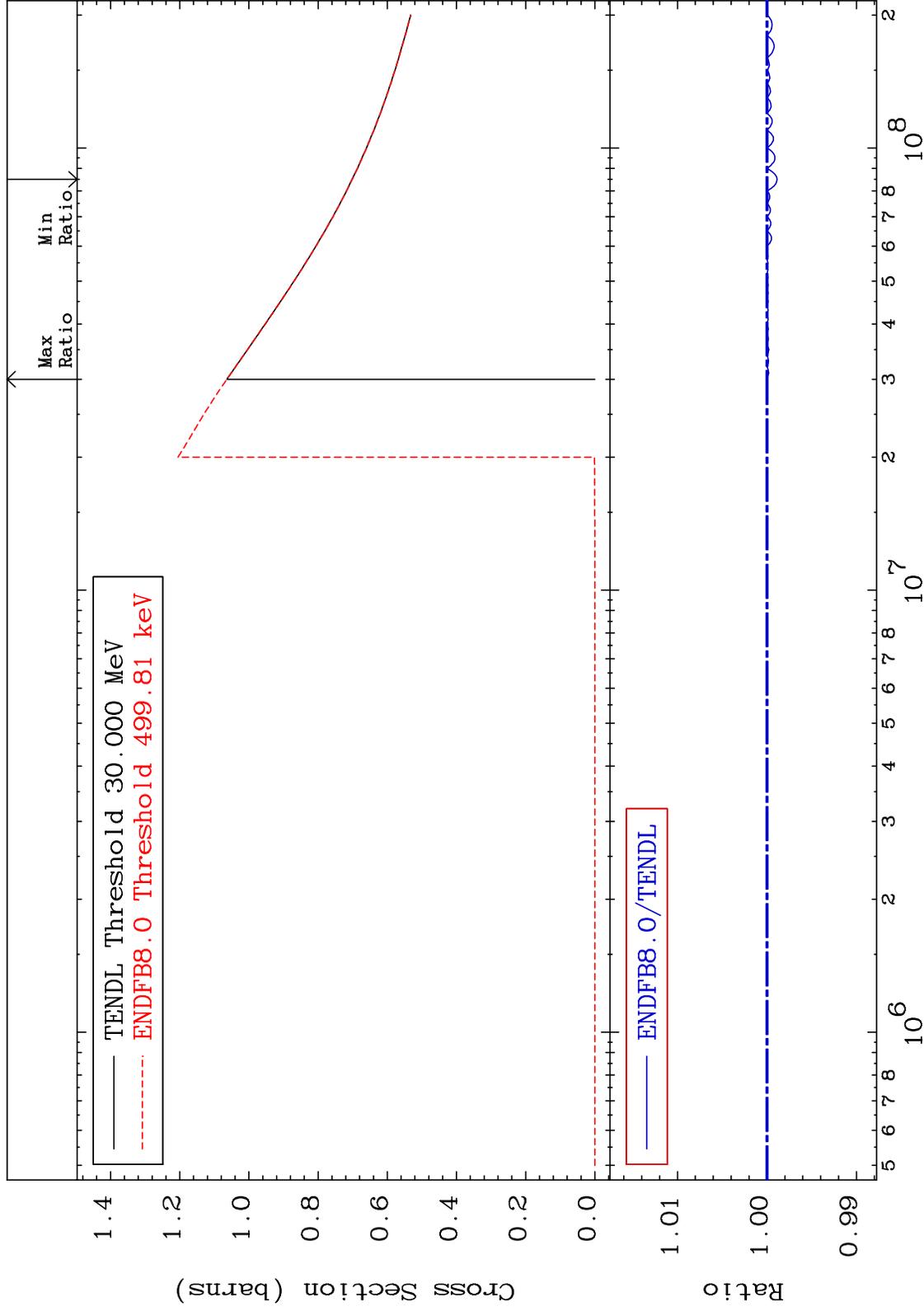
MAT 2049 Inelastic Cross Section 20-Ca-48 -100.0 To 1.180 %



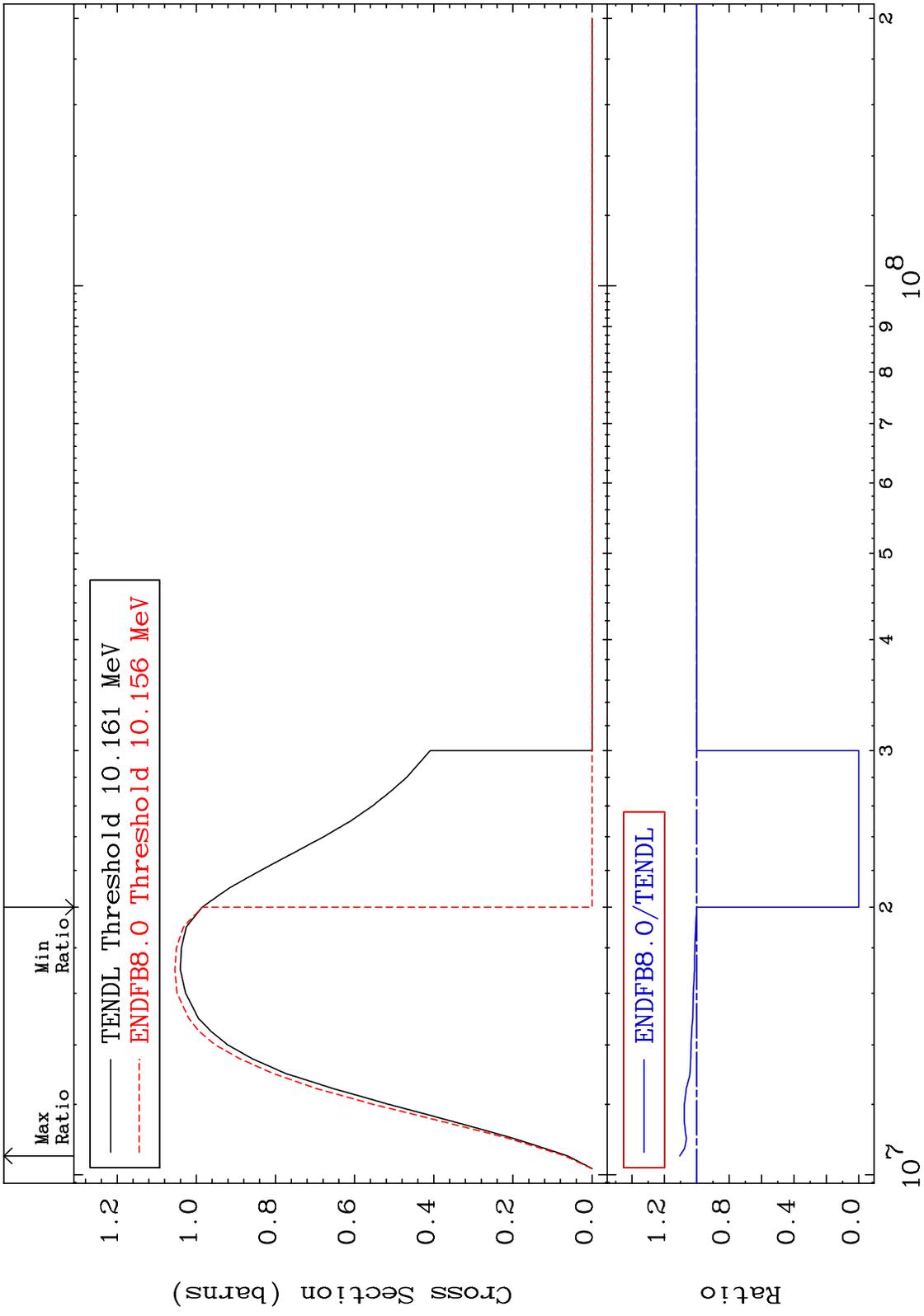
MAT 2049

(n, remainder)
Cross Section

20-Ca-48
-0.112 To 0.002 %

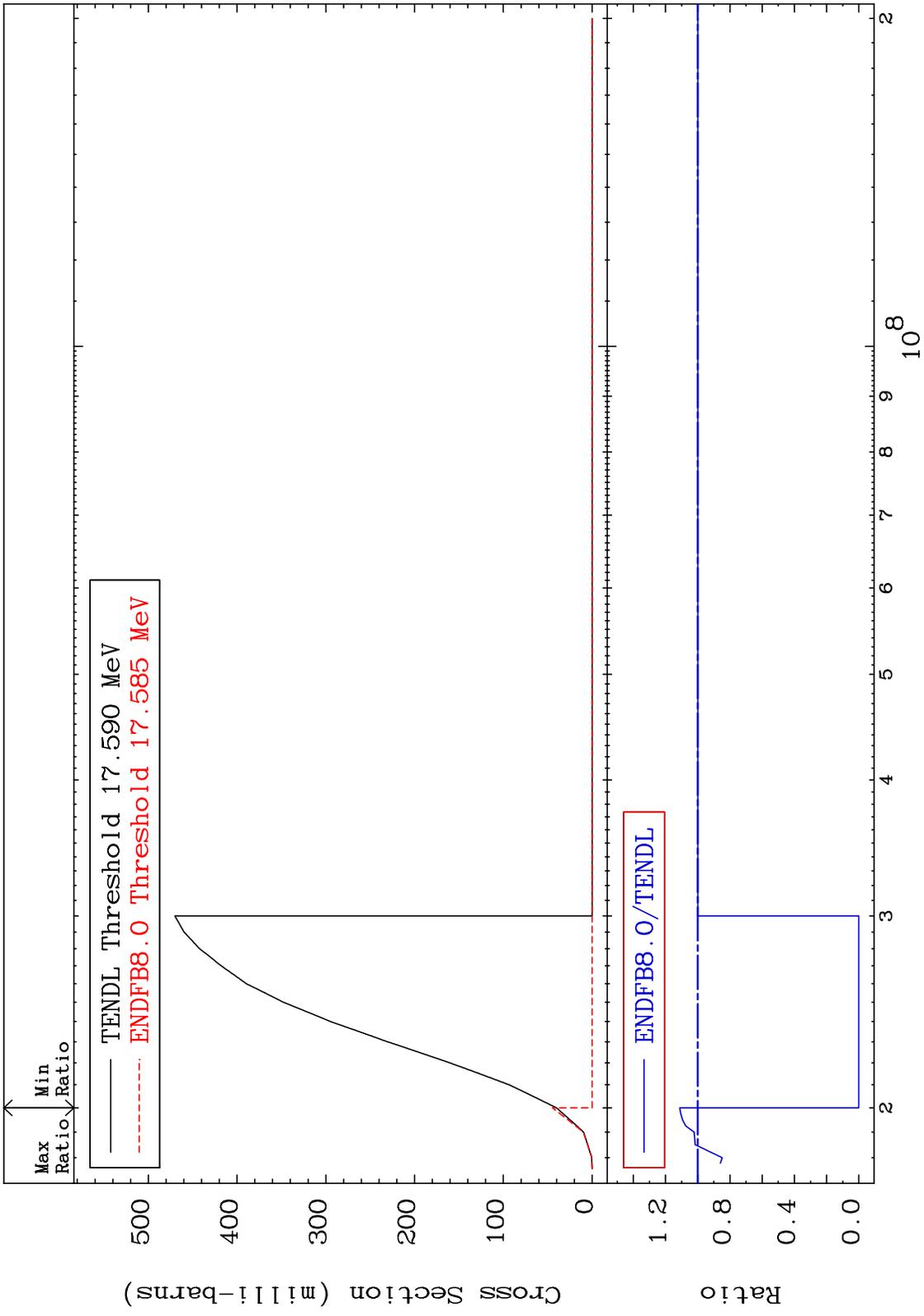


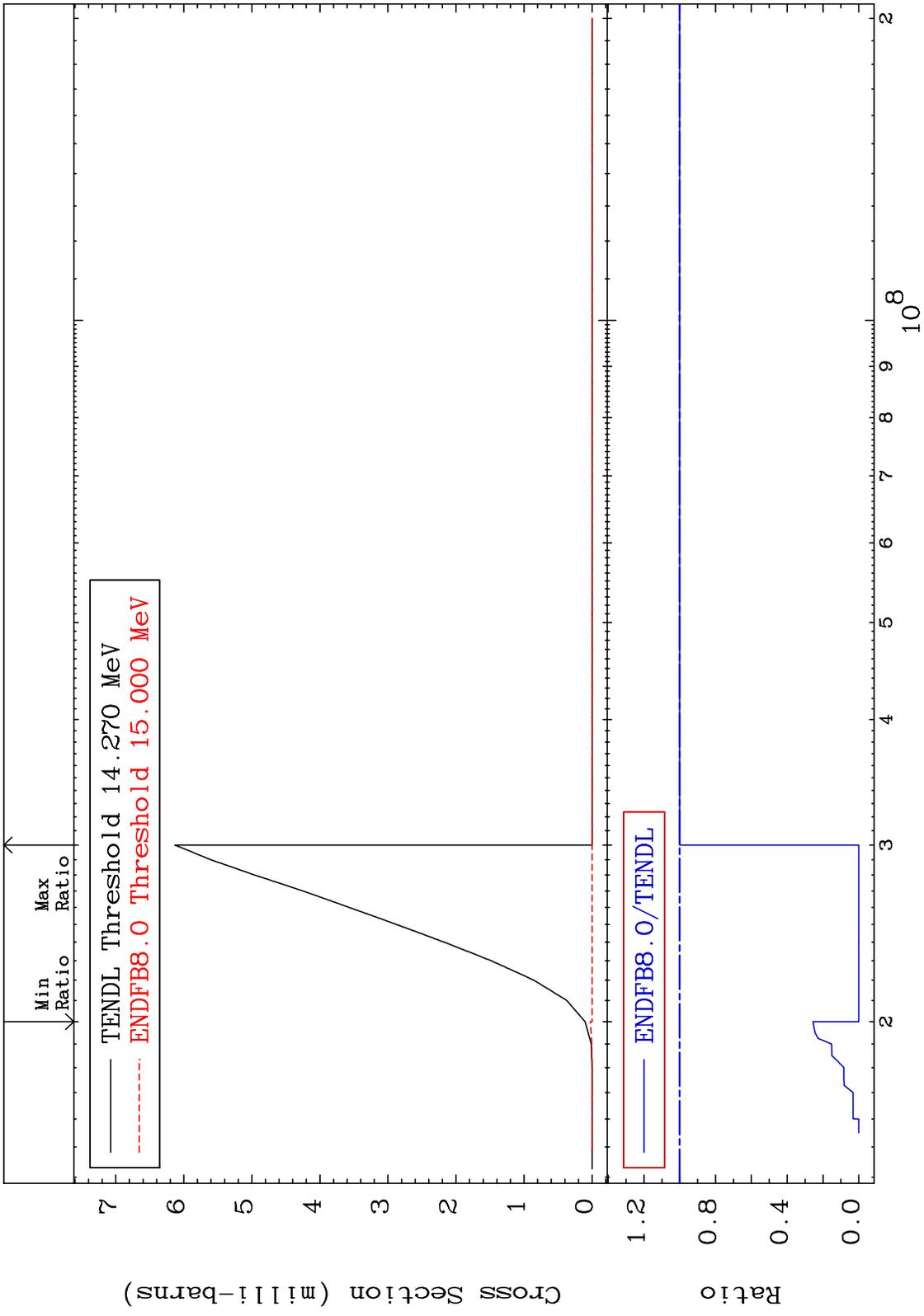
MAT 2049 (n,2n) Cross Section 20-Ca-48 -100.0 To 10.46 %



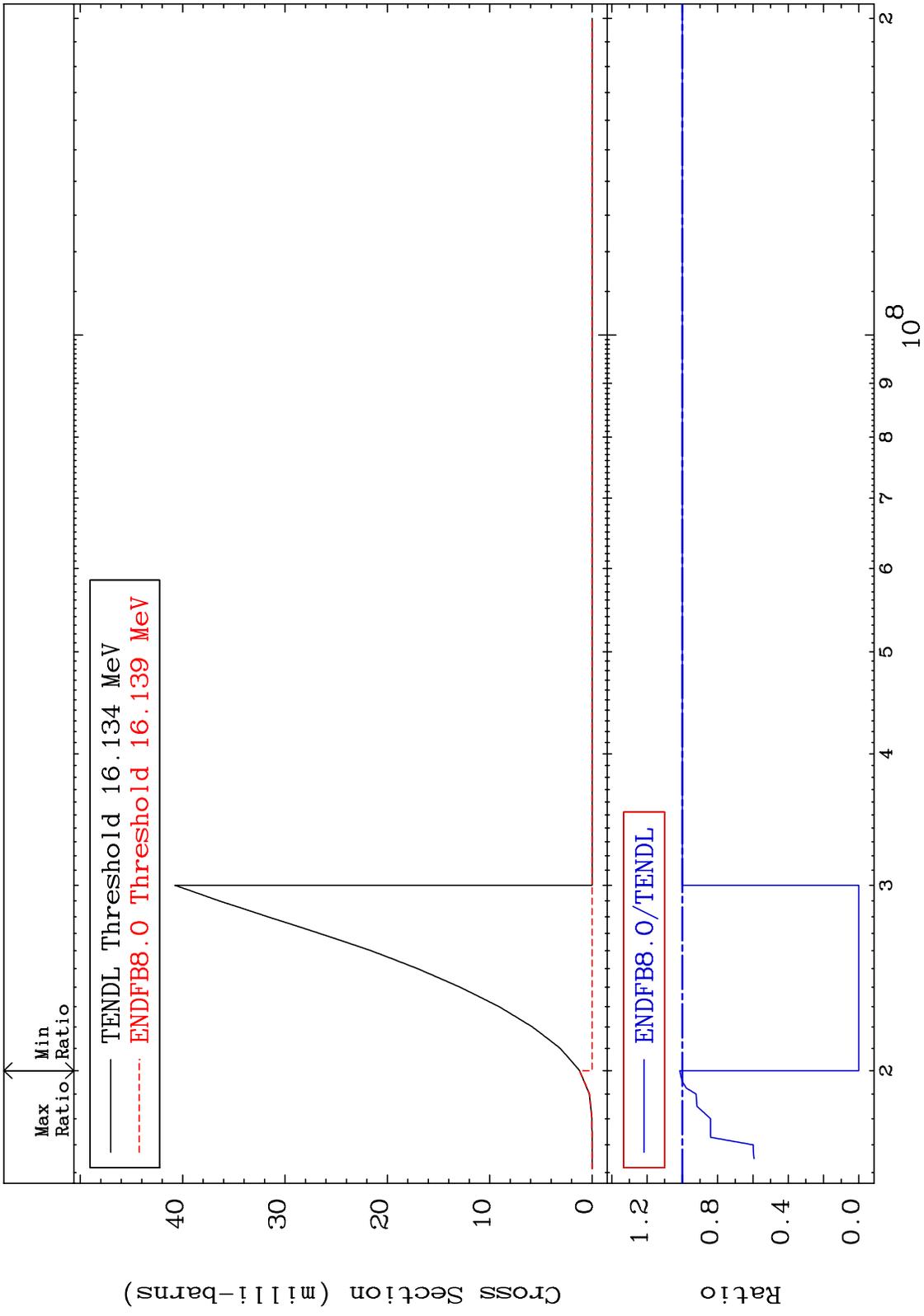
Incident Energy (eV) 20-Ca-48

MAT 2049 (n,3n) 20-Ca-48
 Cross Section -100.0 To 11.18 %

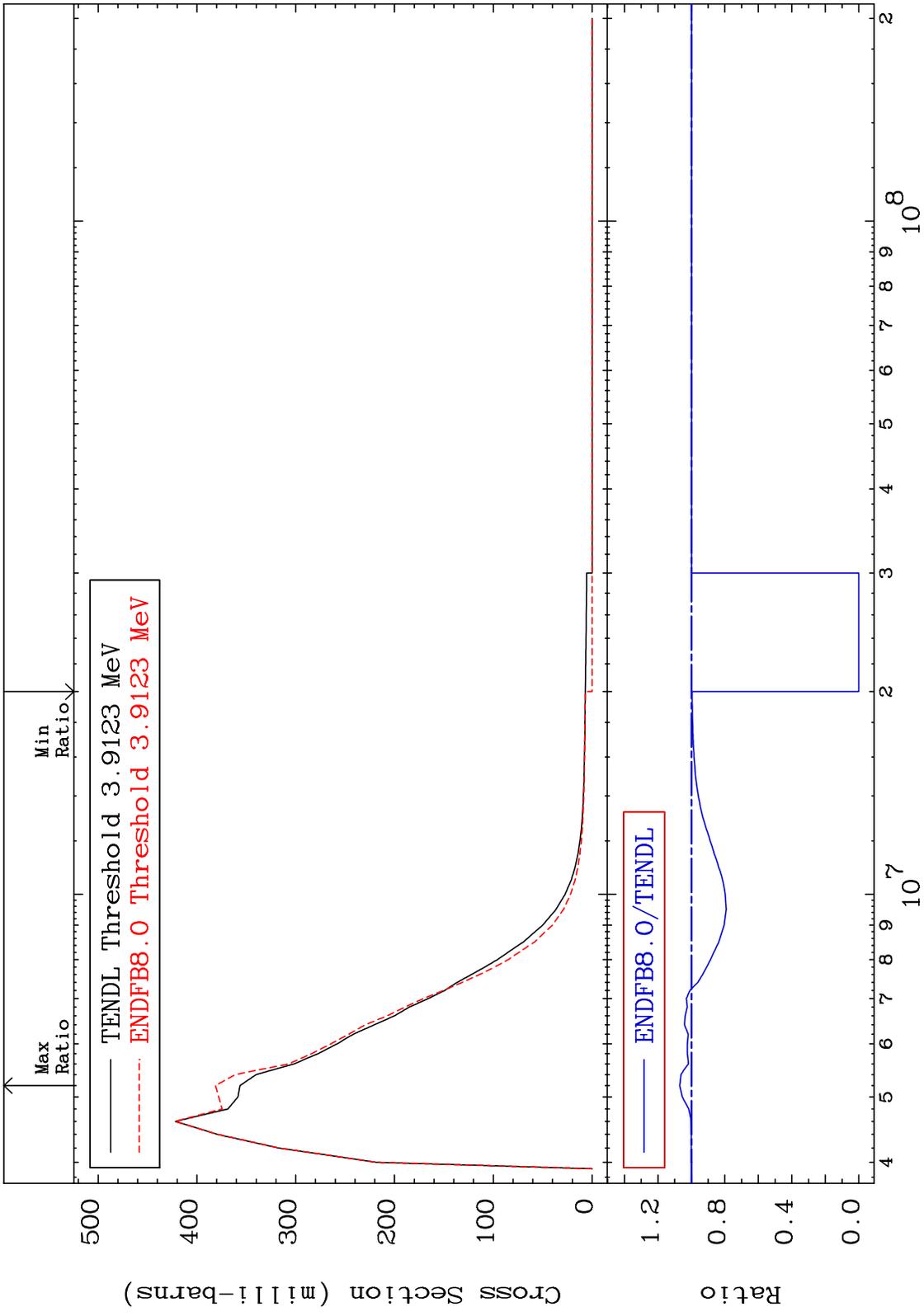




MAT 2049 (n,n') p 20-Ca-48
 Cross Section -100.0 To 1.458 %

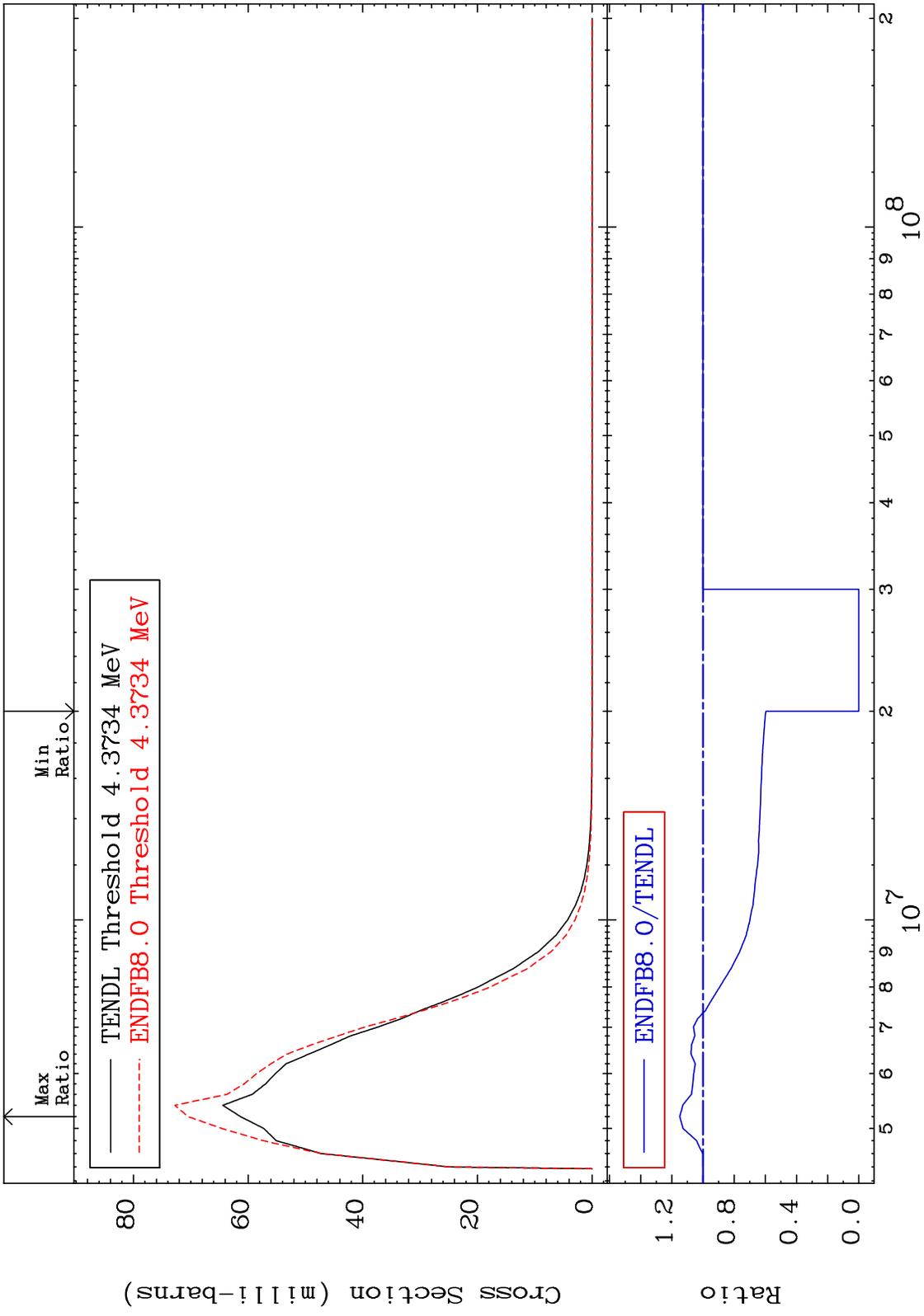


MAT 2049 MT= 51 (n,n') Level Cross Section -100.0 To 6.962 % 20-Ca-48



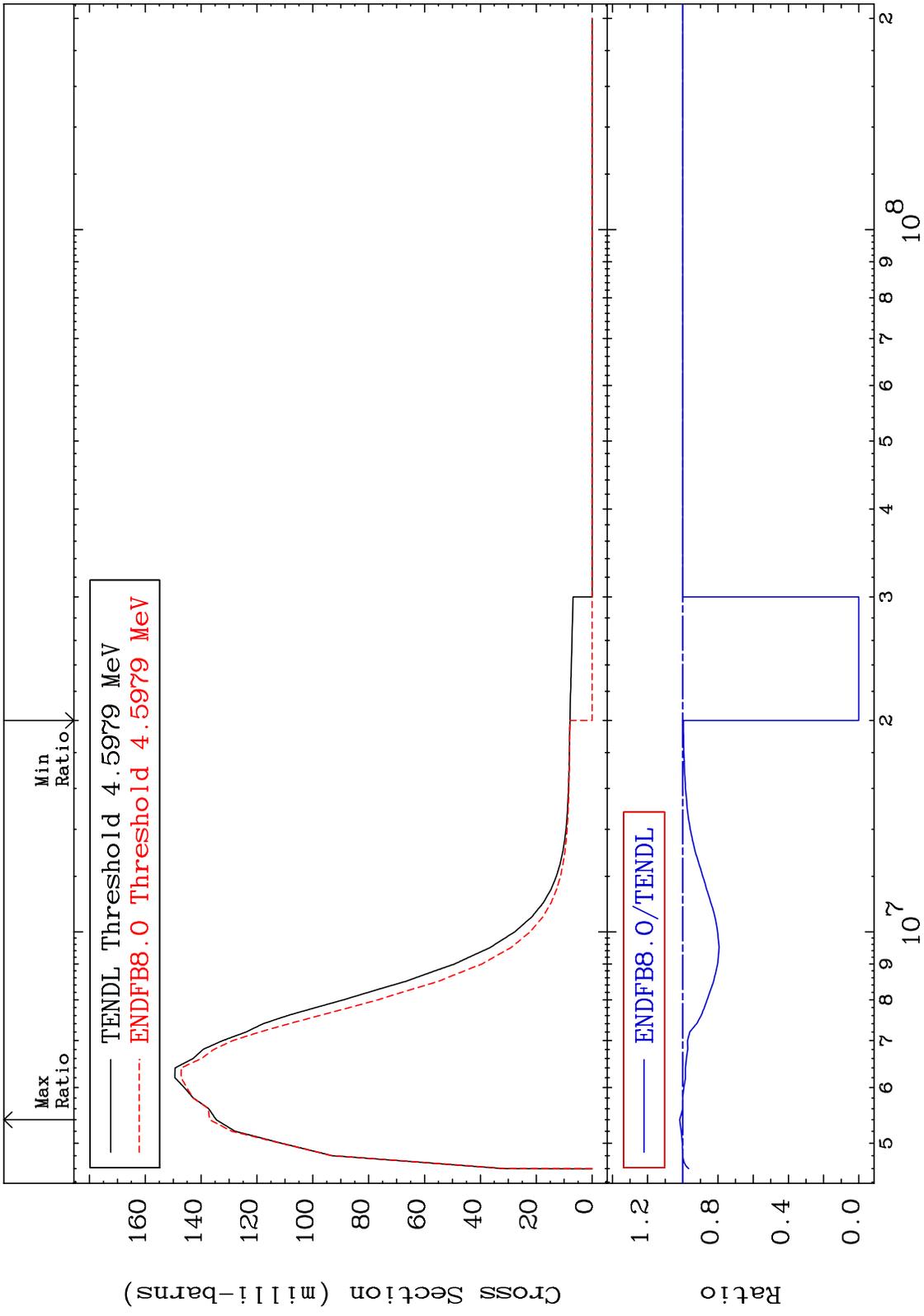
9 Incident Energy (eV) 20-Ca-48

MAT 2049 MT= 52 (n,n') Level Cross Section -100.0 To 14.92 % 20-Ca-48

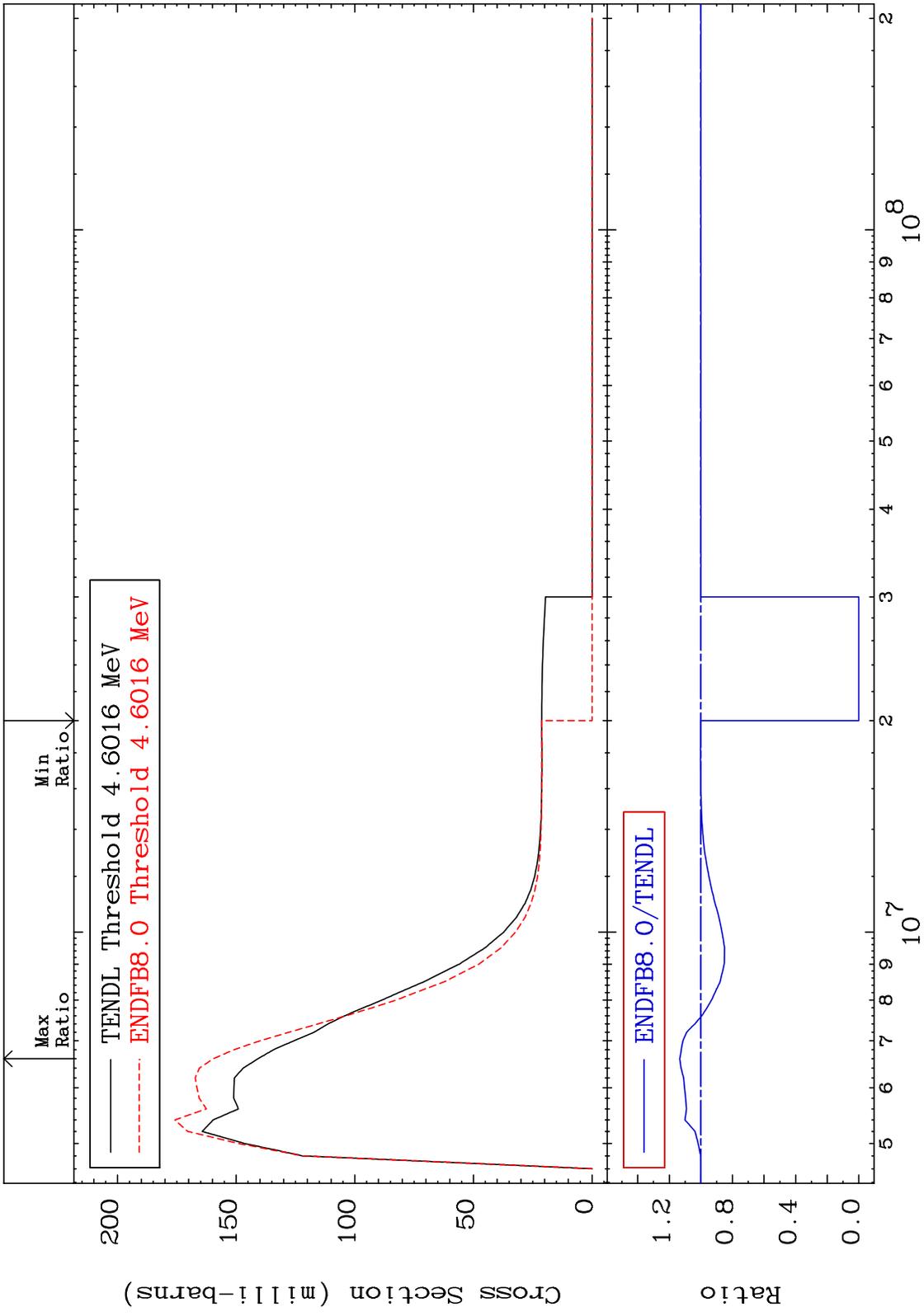


10 20-Ca-48

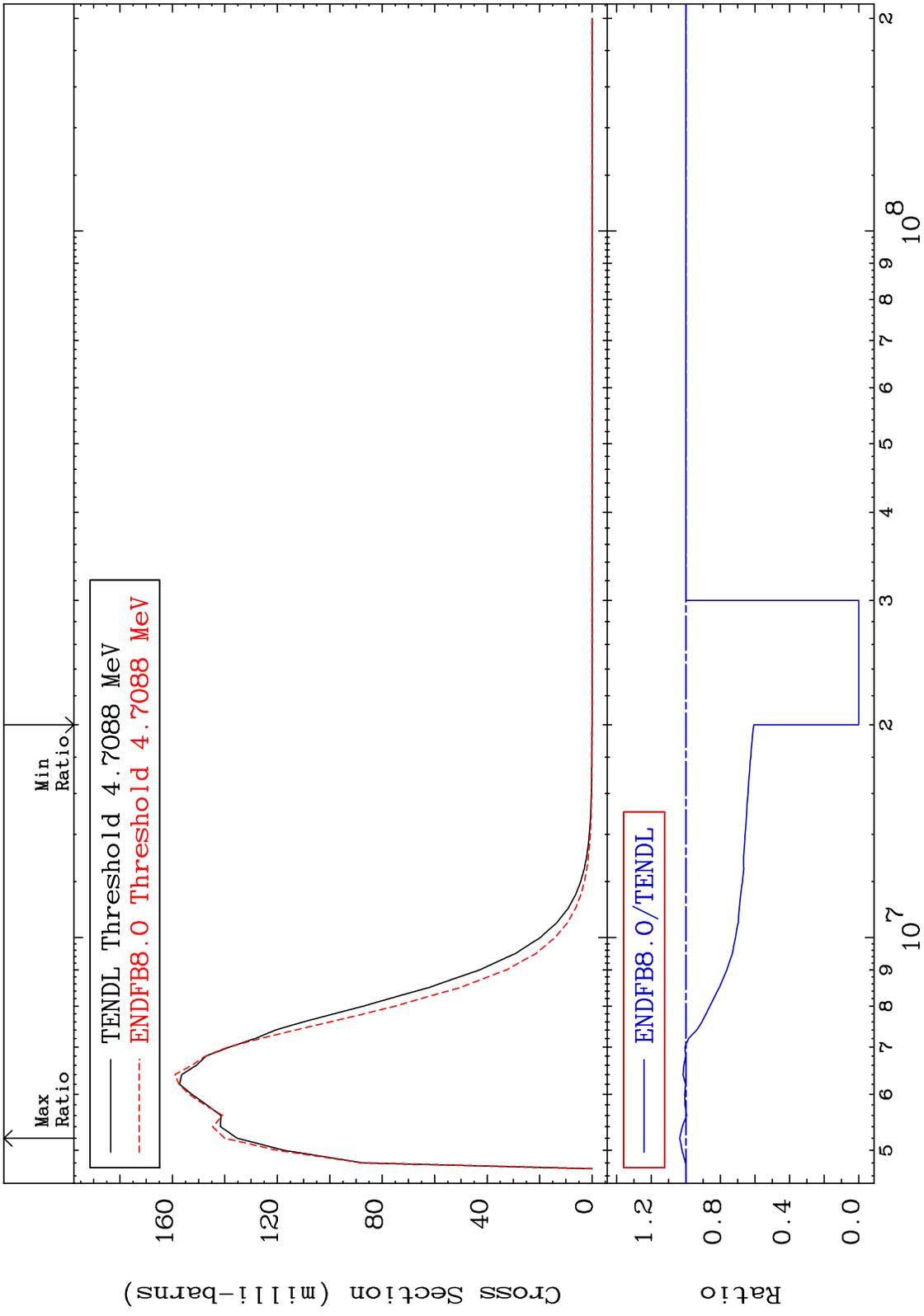
MAT 2049 MT= 53 (n,n') Level Cross Section -100.0 To 1.730 % 20-Ca-48



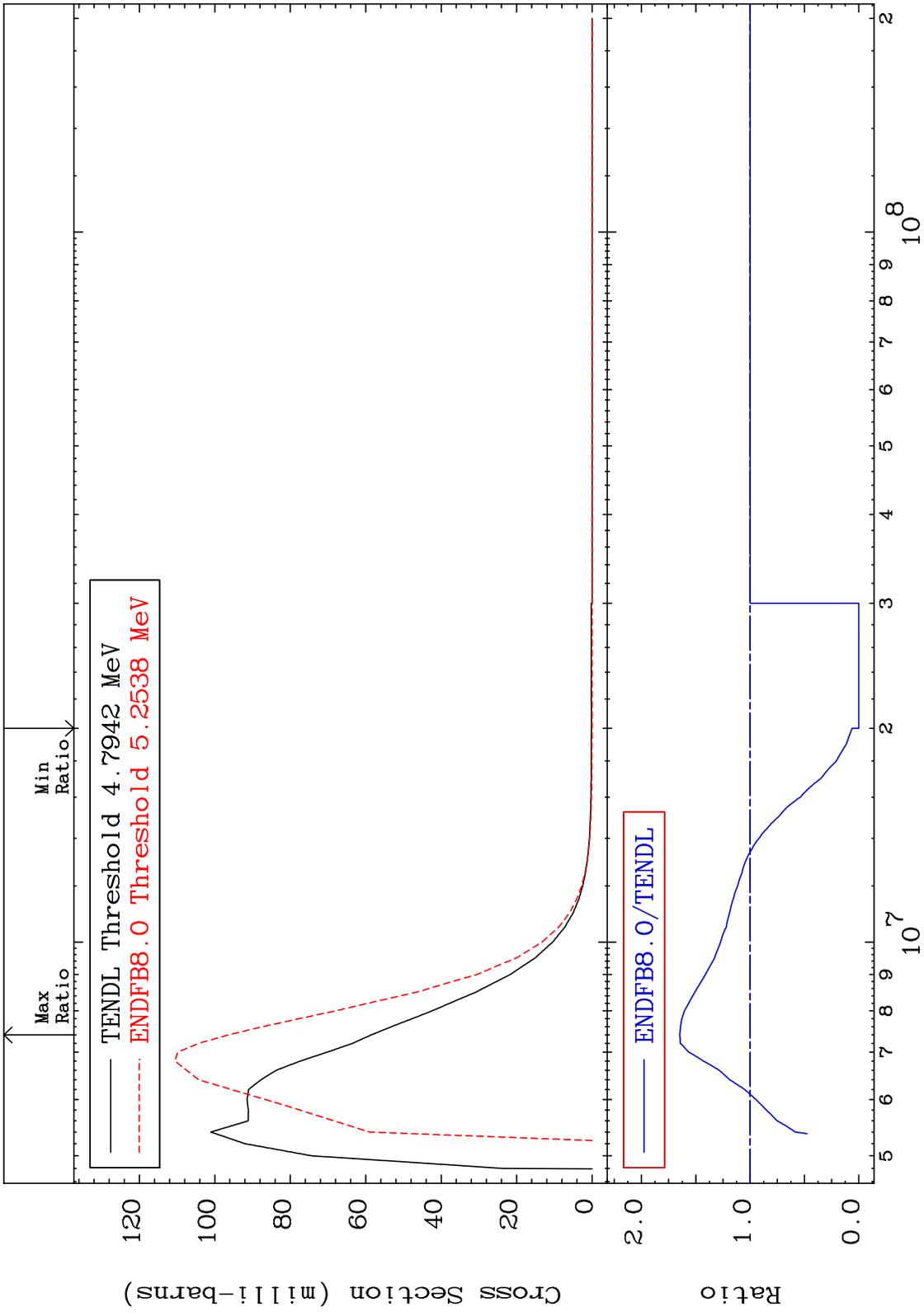
MAT 2049 MT= 54 (n,n') Level Cross Section -100.0 To 13.38 % 20-Ca-48



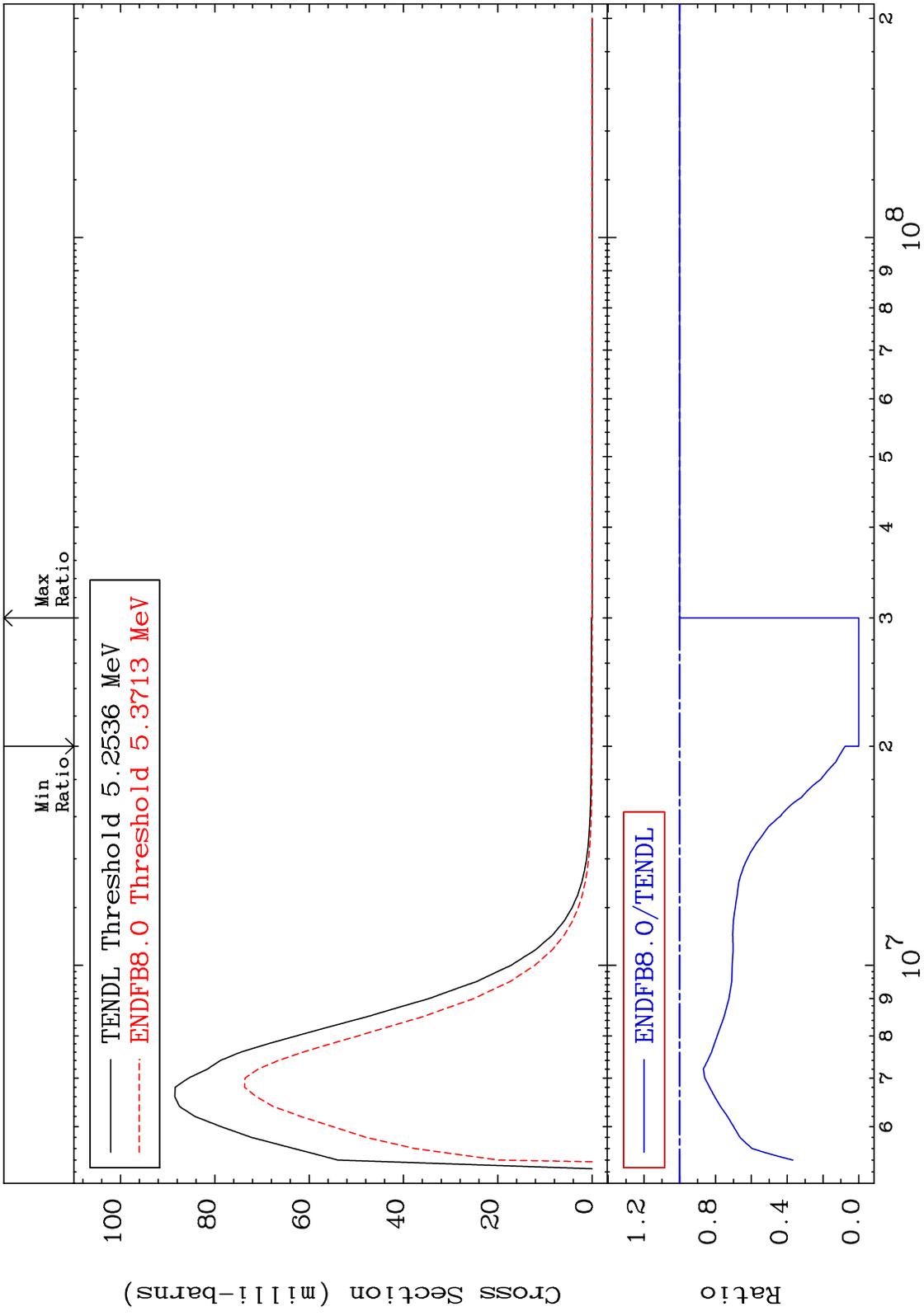
MAT 2049 MT= 55 (n,n') Level Cross Section -100.0 To 3.540 % 20-Ca-48



MAT 2049 MT= 56 (n,n') Level Cross Section -100.0 To 64.76 % 20-Ca-48



MAT 2049 MT= 57 (n,n') Level Cross Section -100.0 To 0.000 % 20-Ca-48

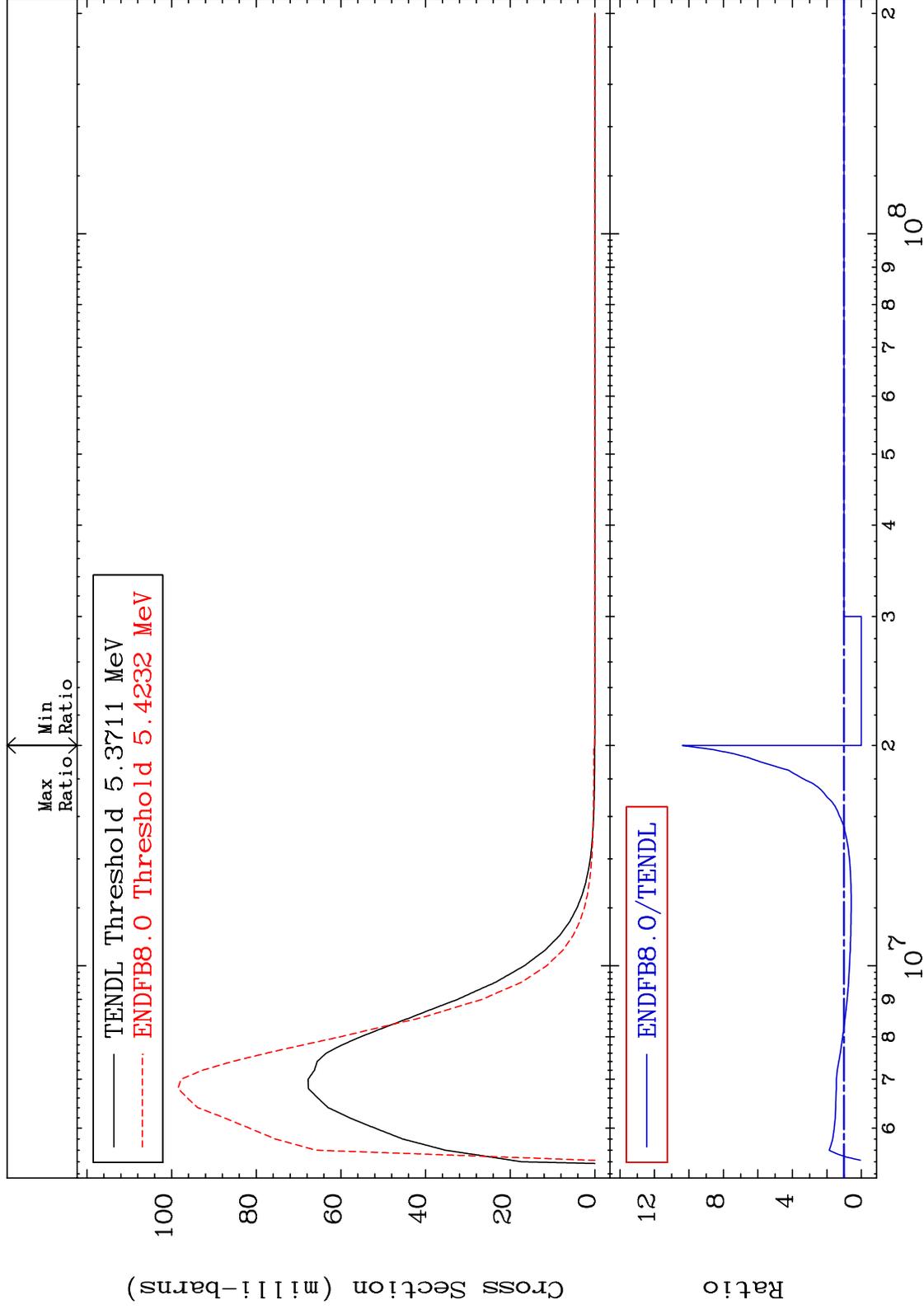


15 Incident Energy (eV) 20-Ca-48

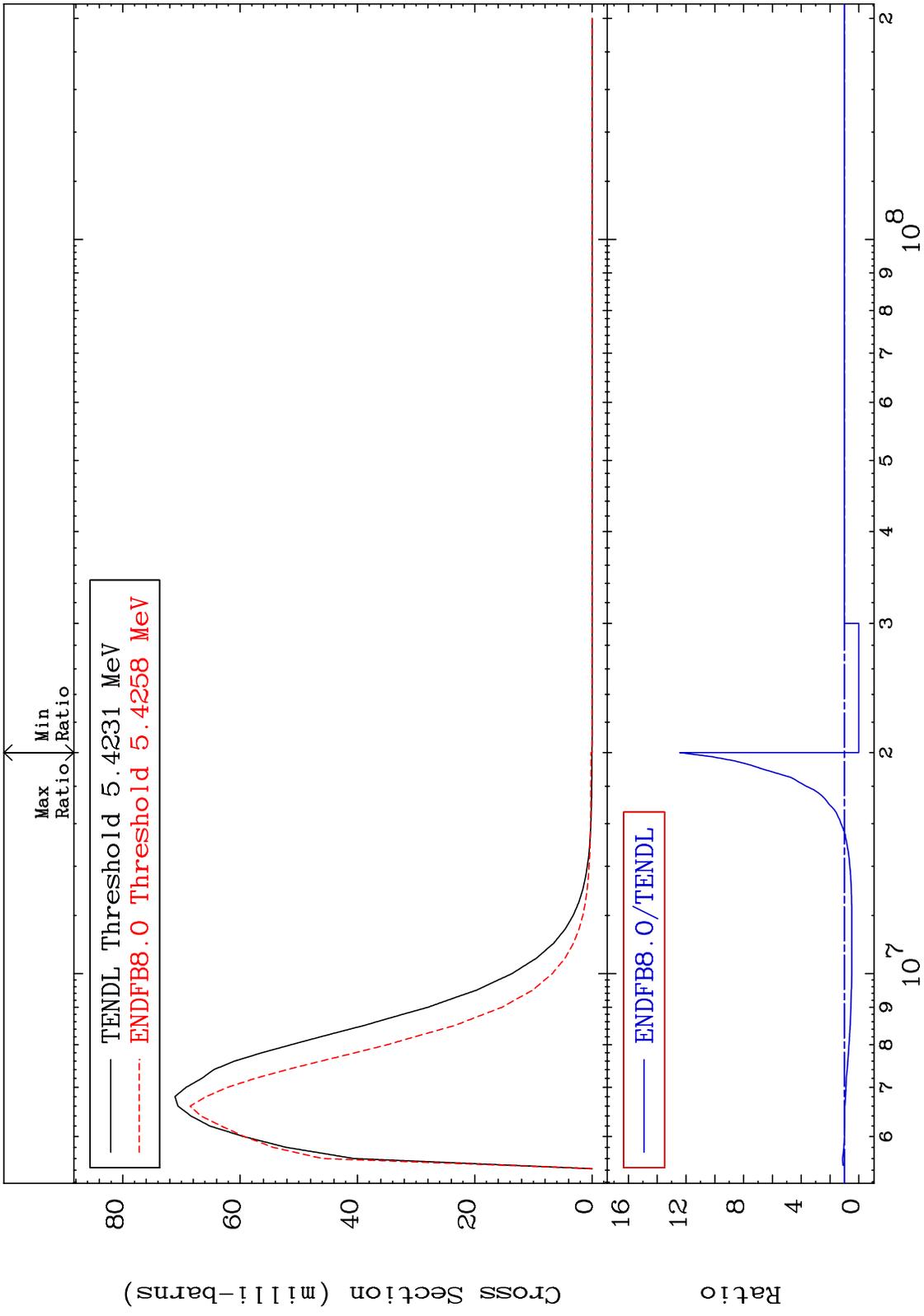
MAT 2049

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

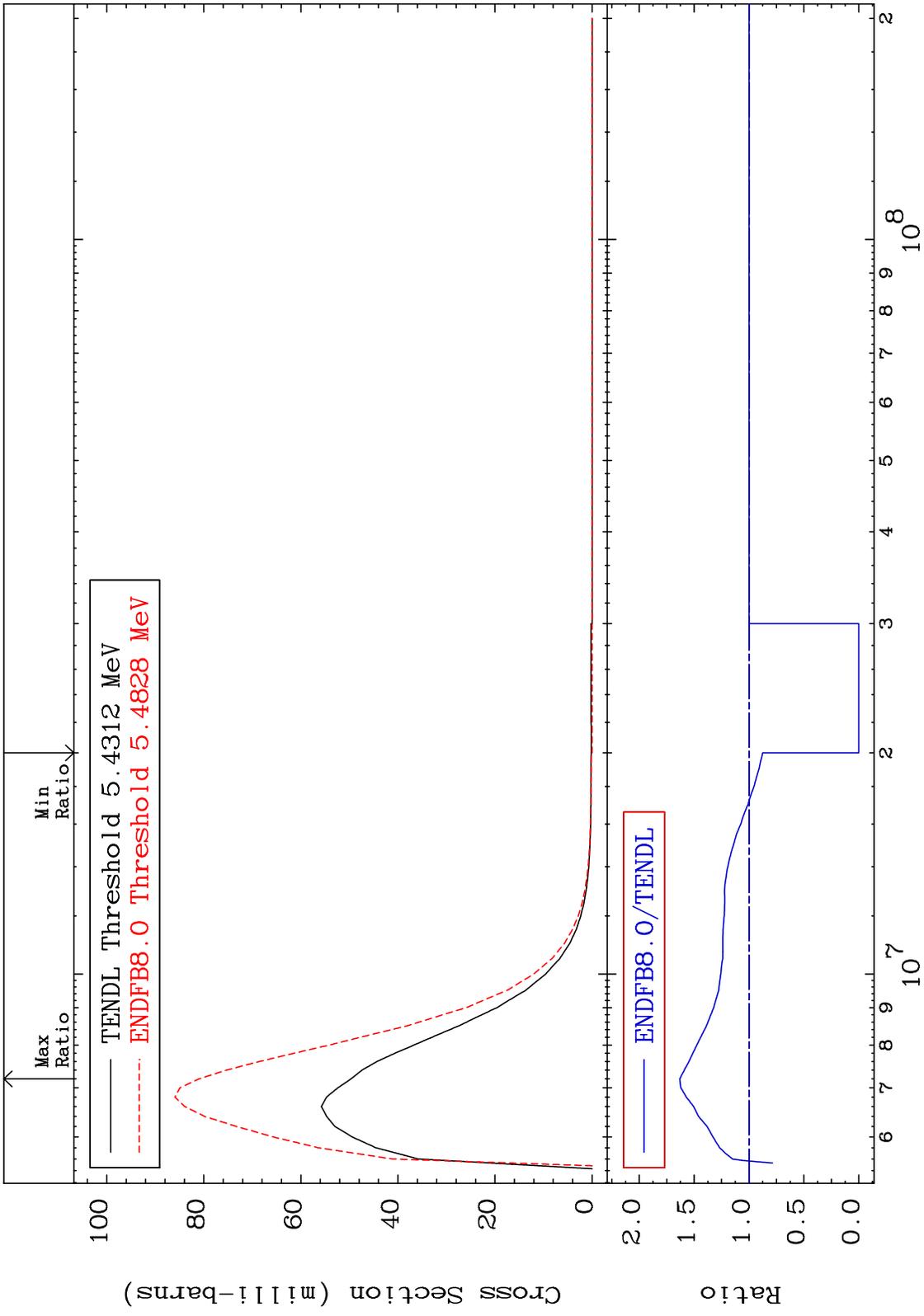
20-Ca-48
-100.0 To 937.8 %



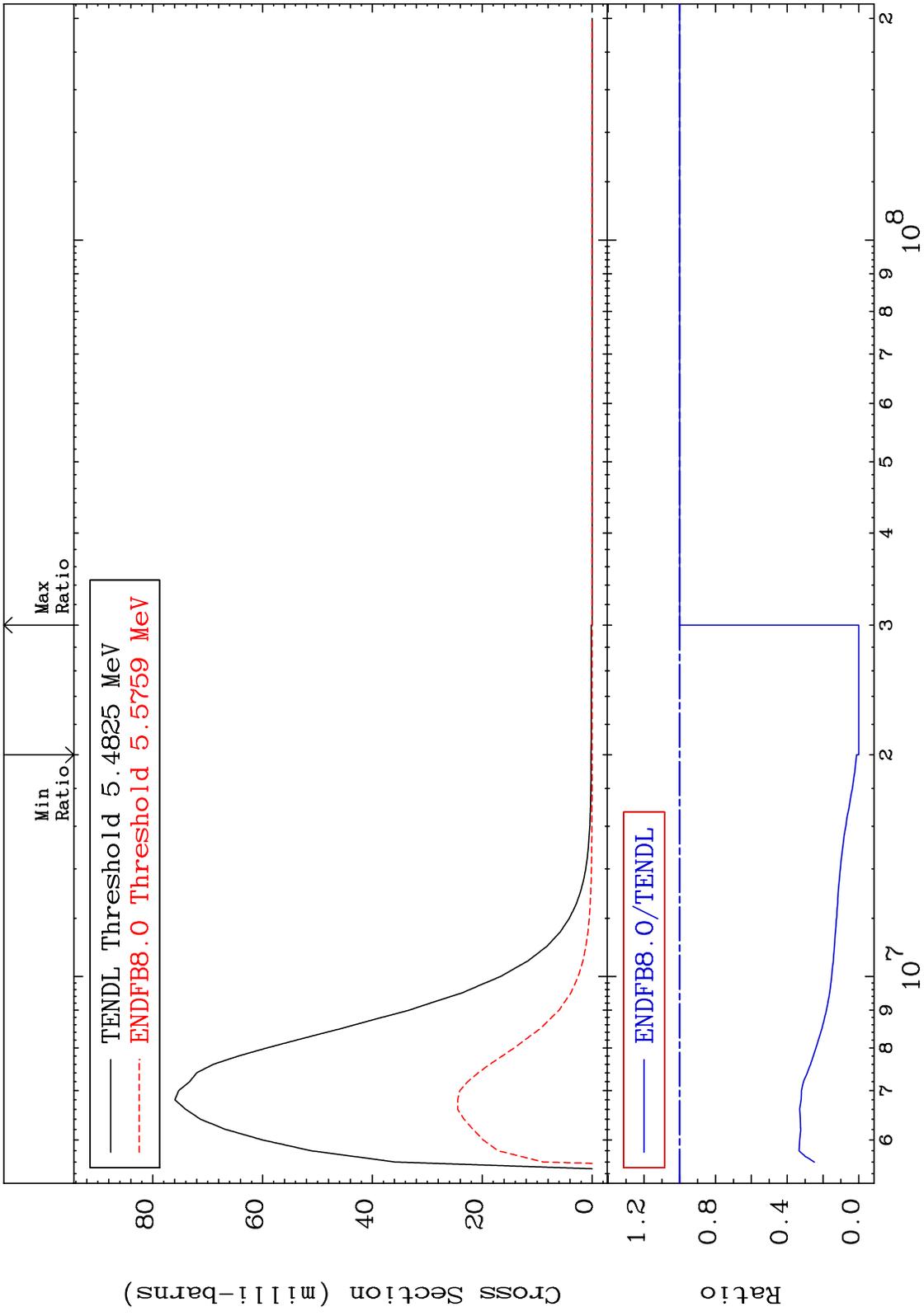
MAT 2049 MT= 59 (n,n') Level Cross Section -100.0 To 1144. % 20-Ca-48



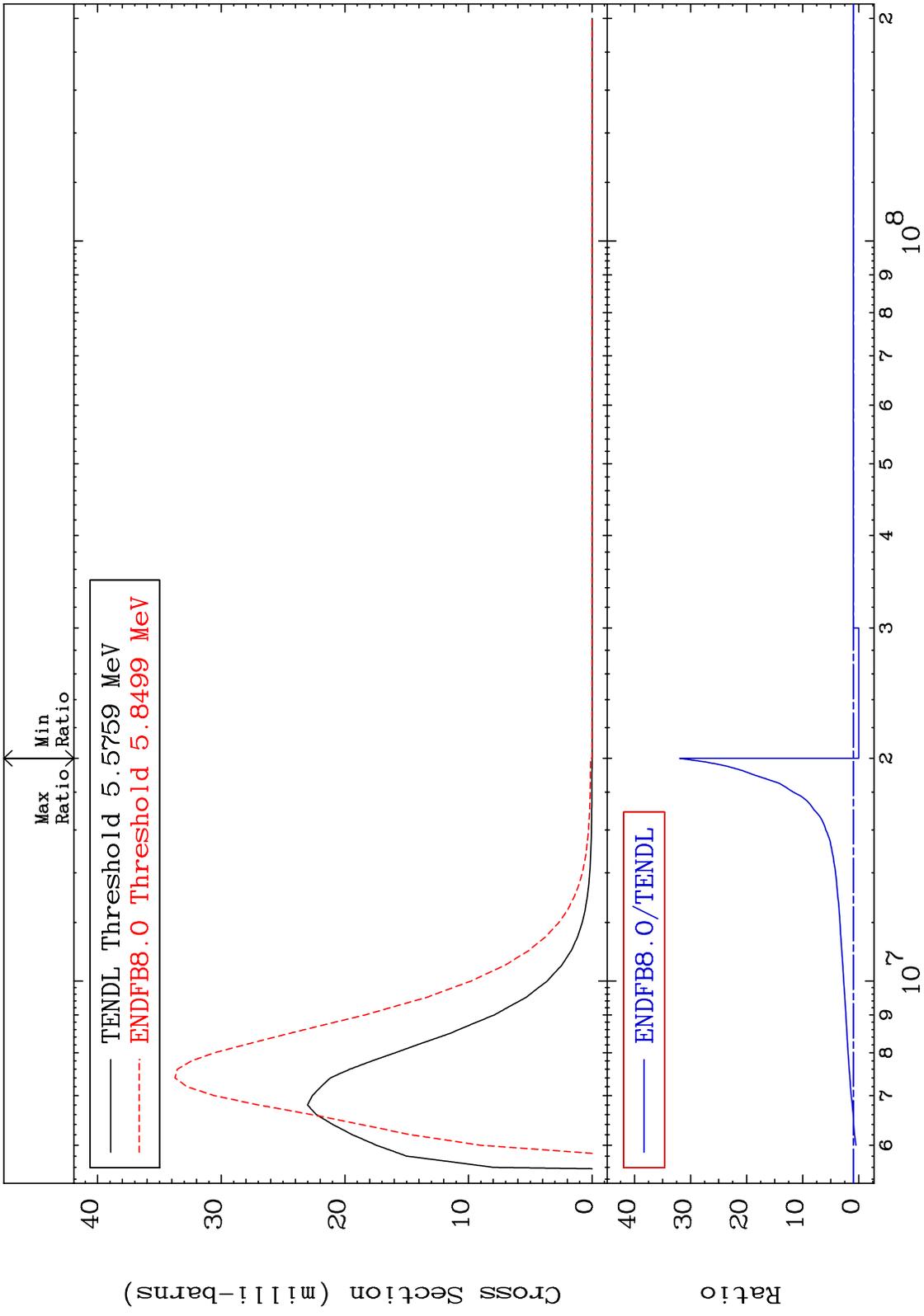
MAT 2049 MT= 60 (n,n') Level Cross Section -100.0 To 63.09 % 20-Ca-48



MAT 2049 MT= 61 (n,n') Level Cross Section -100.0 To 0.000 % 20-Ca-48

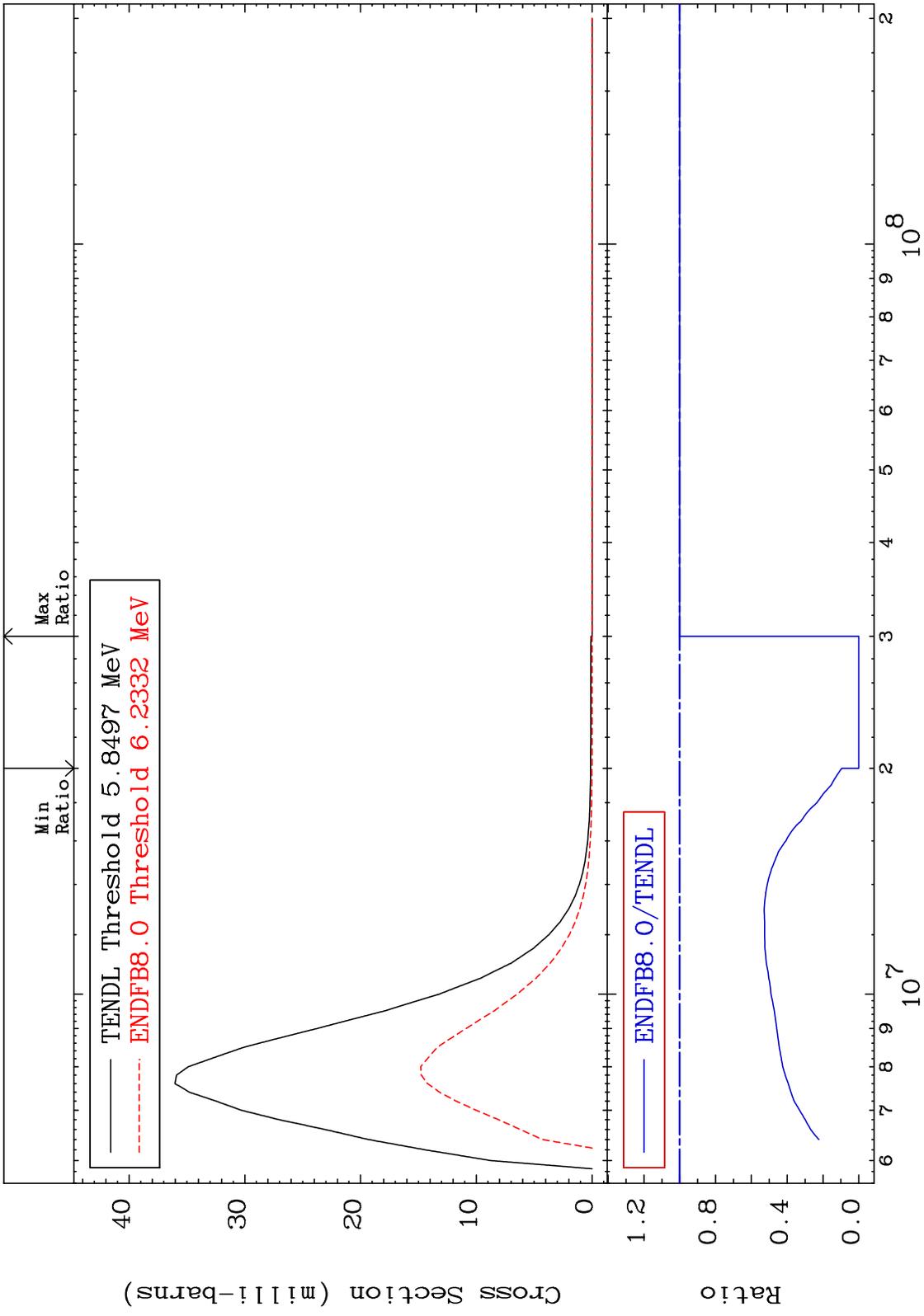


MAT 2049 MT= 62 (n,n') Level 20-Ca-48
 Cross Section -100.0 To 3095. %

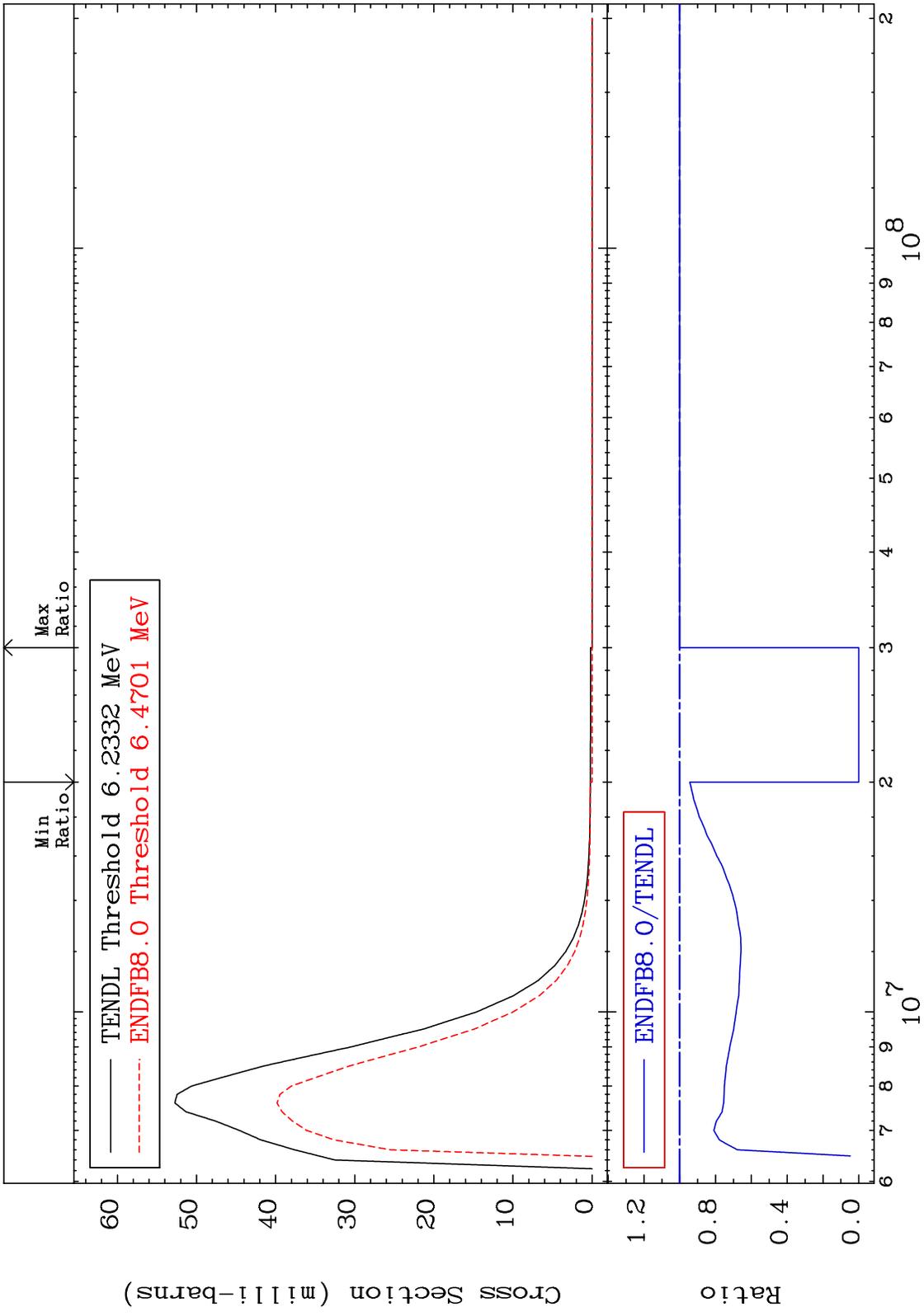


20 Incident Energy (eV) 20-Ca-48

MAT 2049 MT= 63 (n,n') Level Cross Section -100.0 To 0.000 % 20-Ca-48

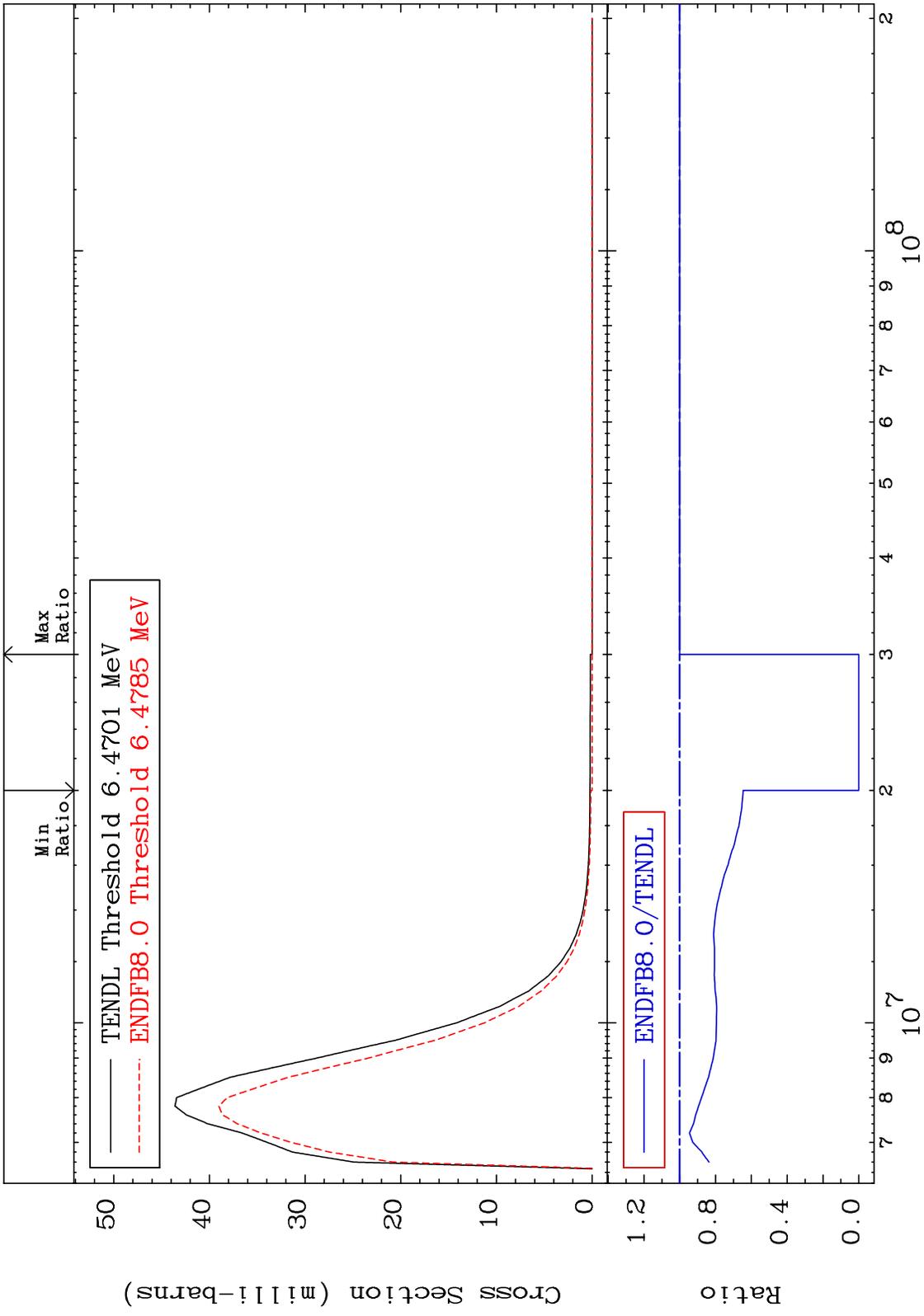


MAT 2049 MT= 64 (n,n') Level Cross Section -100.0 To 0.000 % 20-Ca-48

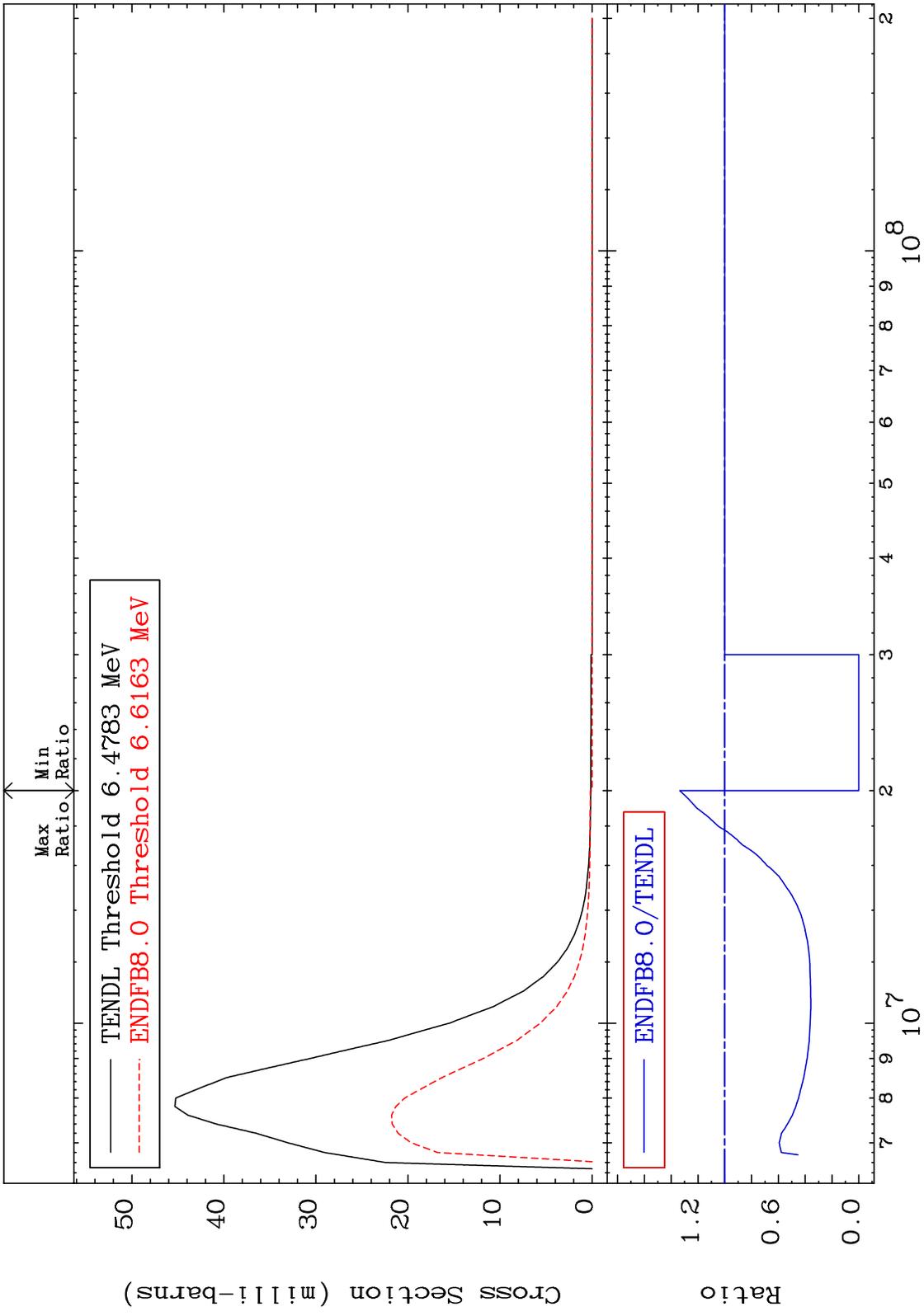


22 Incident Energy (eV) 20-Ca-48

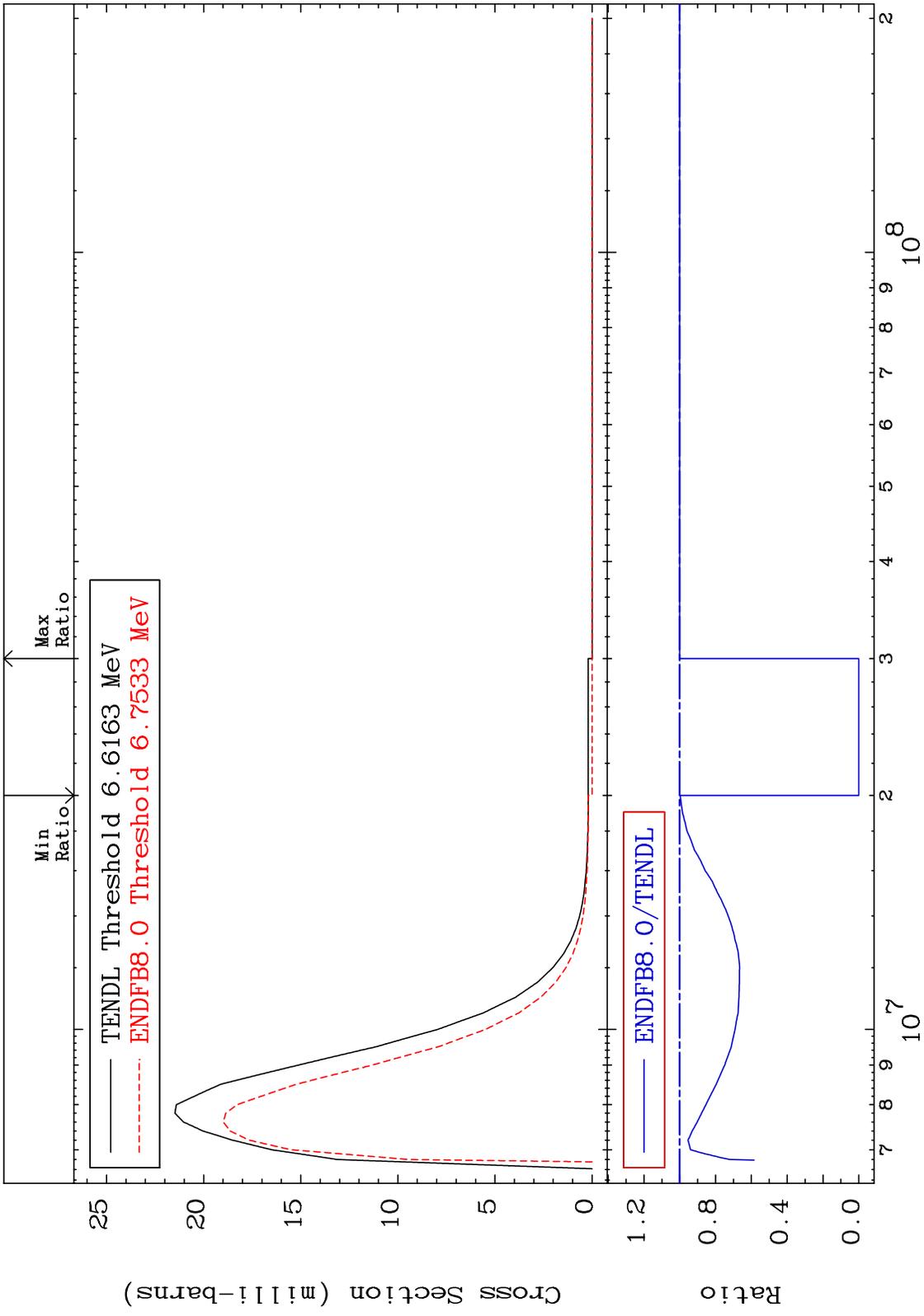
MAT 2049 MT= 65 (n,n') Level Cross Section -100.0 To 0.000 % 20-Ca-48



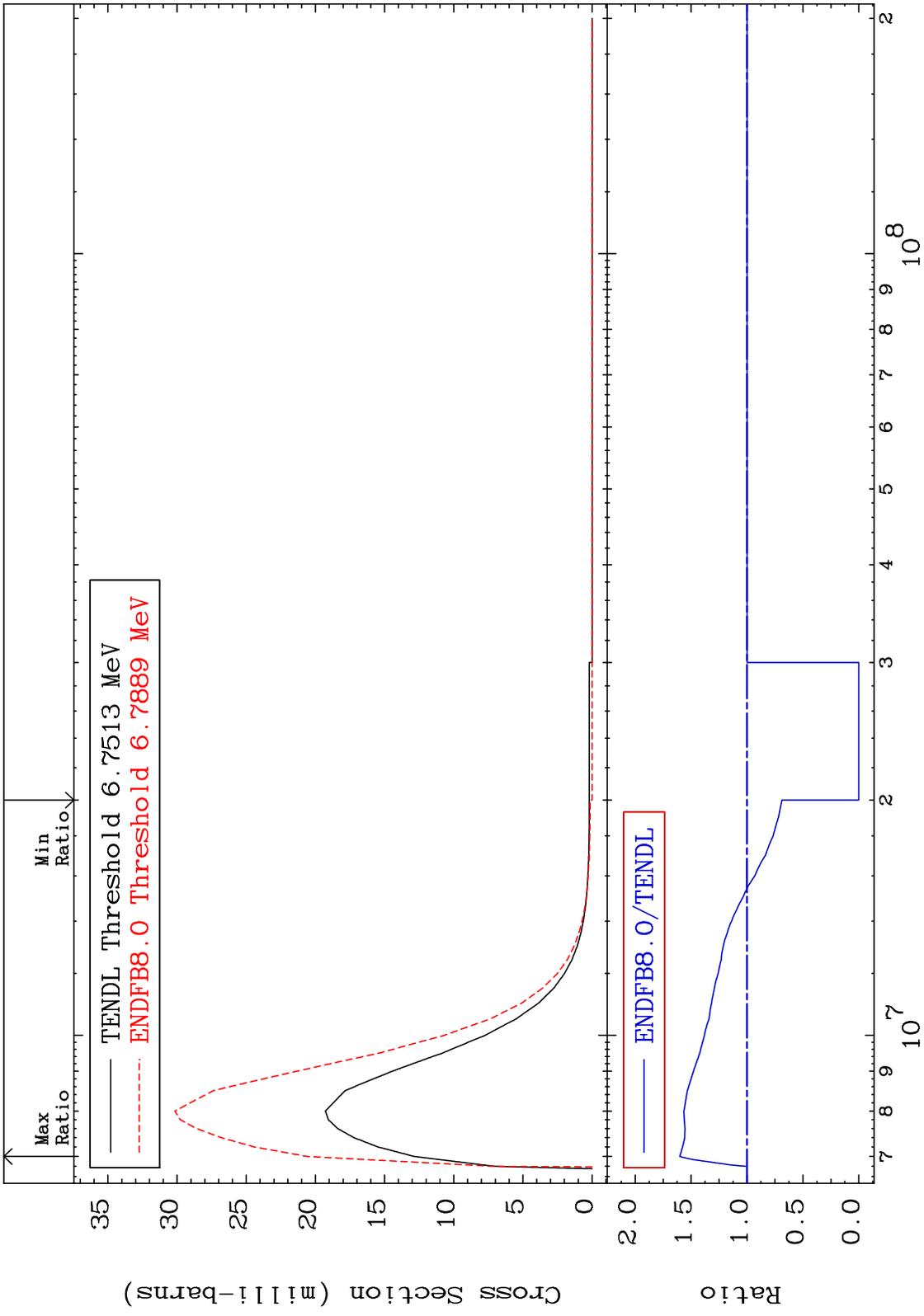
MAT 2049 MT= 66 (n,n') Level Cross Section -100.0 To 33.60 % 20-Ca-48



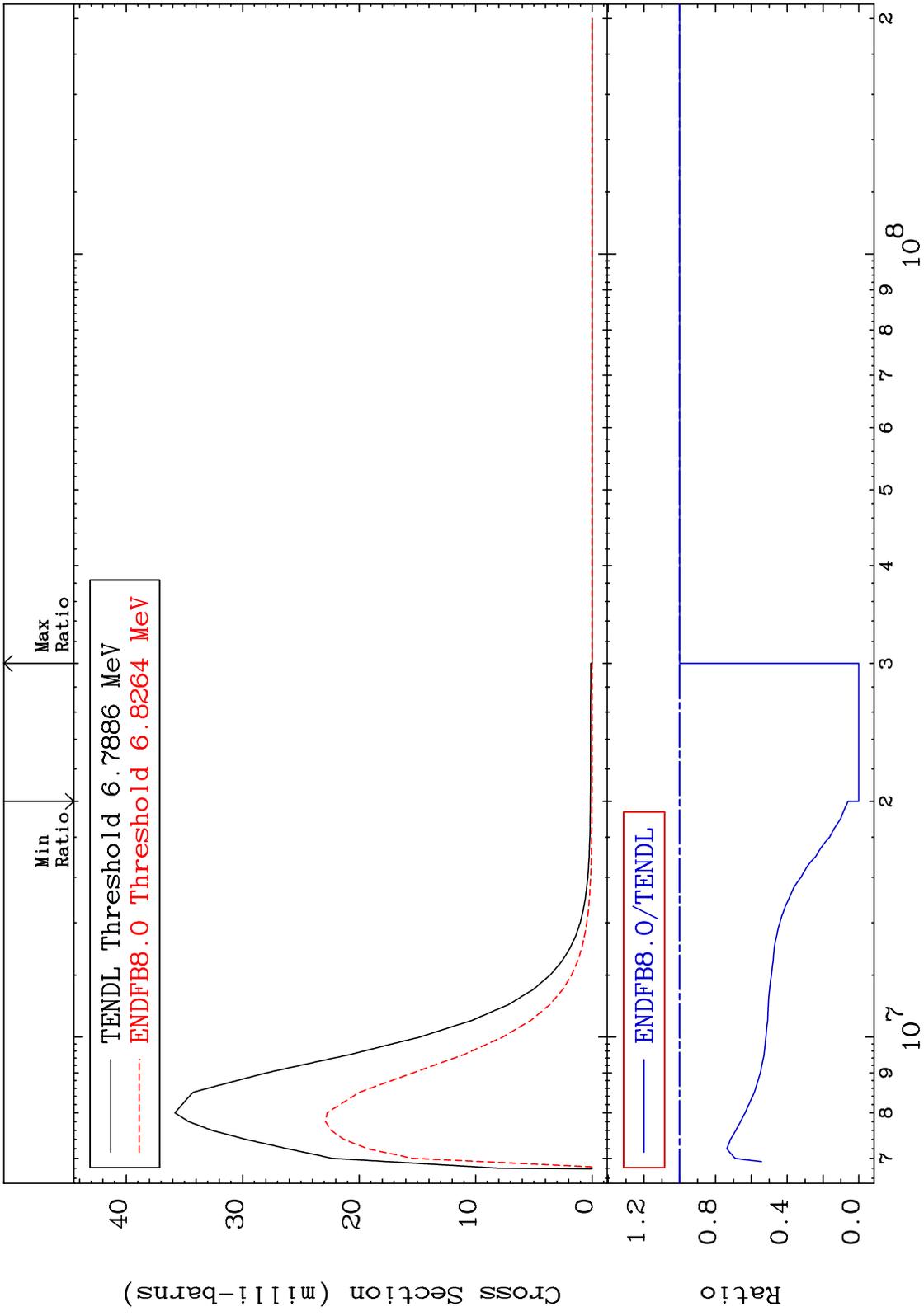
MAT 2049 MT= 67 (n,n') Level Cross Section -100.0 To 0.000 % 20-Ca-48



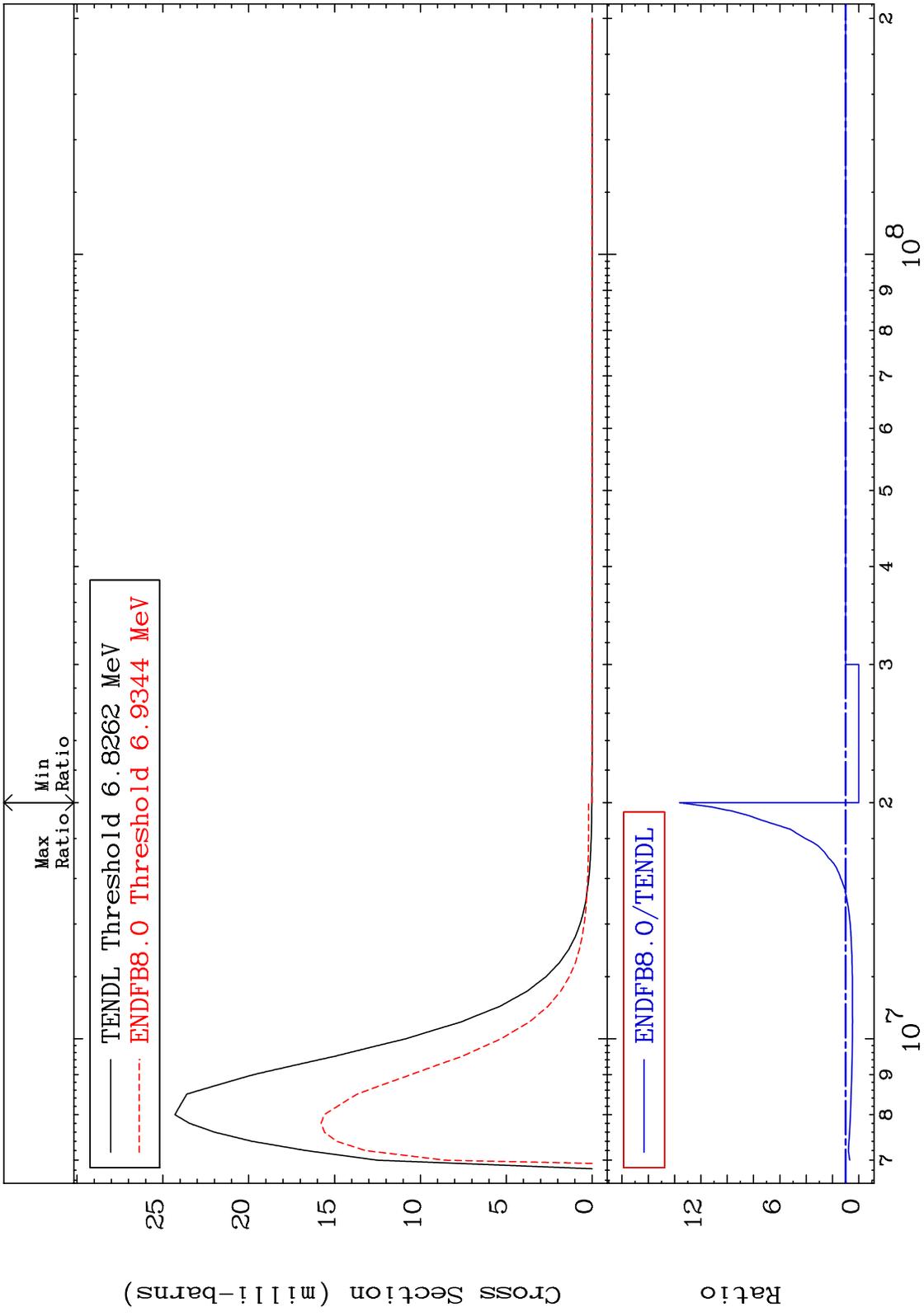
MAT 2049 MT= 68 (n,n') Level Cross Section -100.0 To 60.16 % 20-Ca-48



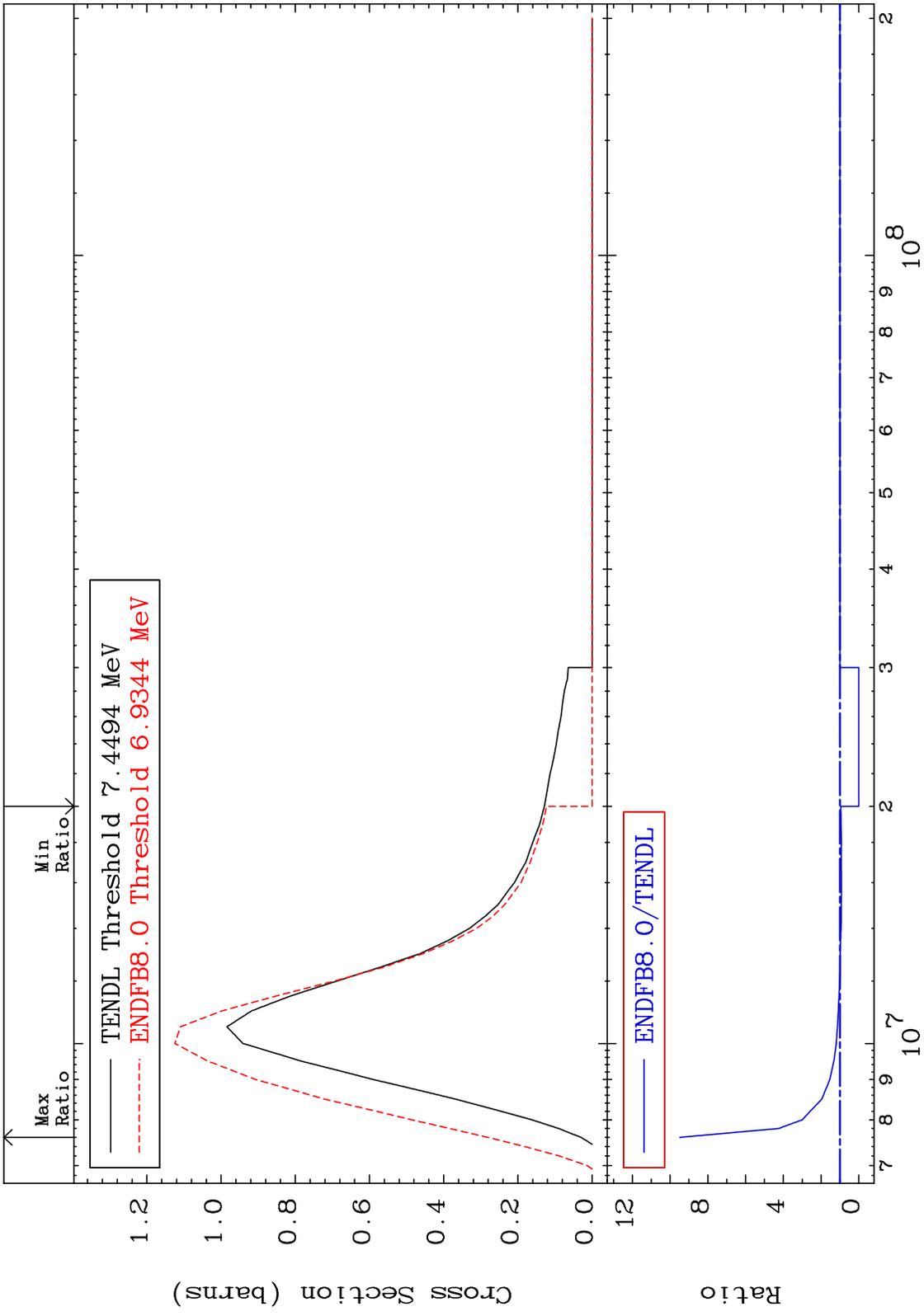
MAT 2049 MT= 69 (n,n') Level Cross Section -100.0 To 0.000 % 20-Ca-48



MAT 2049 MT= 70 (n,n') Level Cross Section -100.0 To 1261. % 20-Ca-48



MAT 2049 (n,n') Continuum Cross Section -100.0 To 848.9 % 20-Ca-48



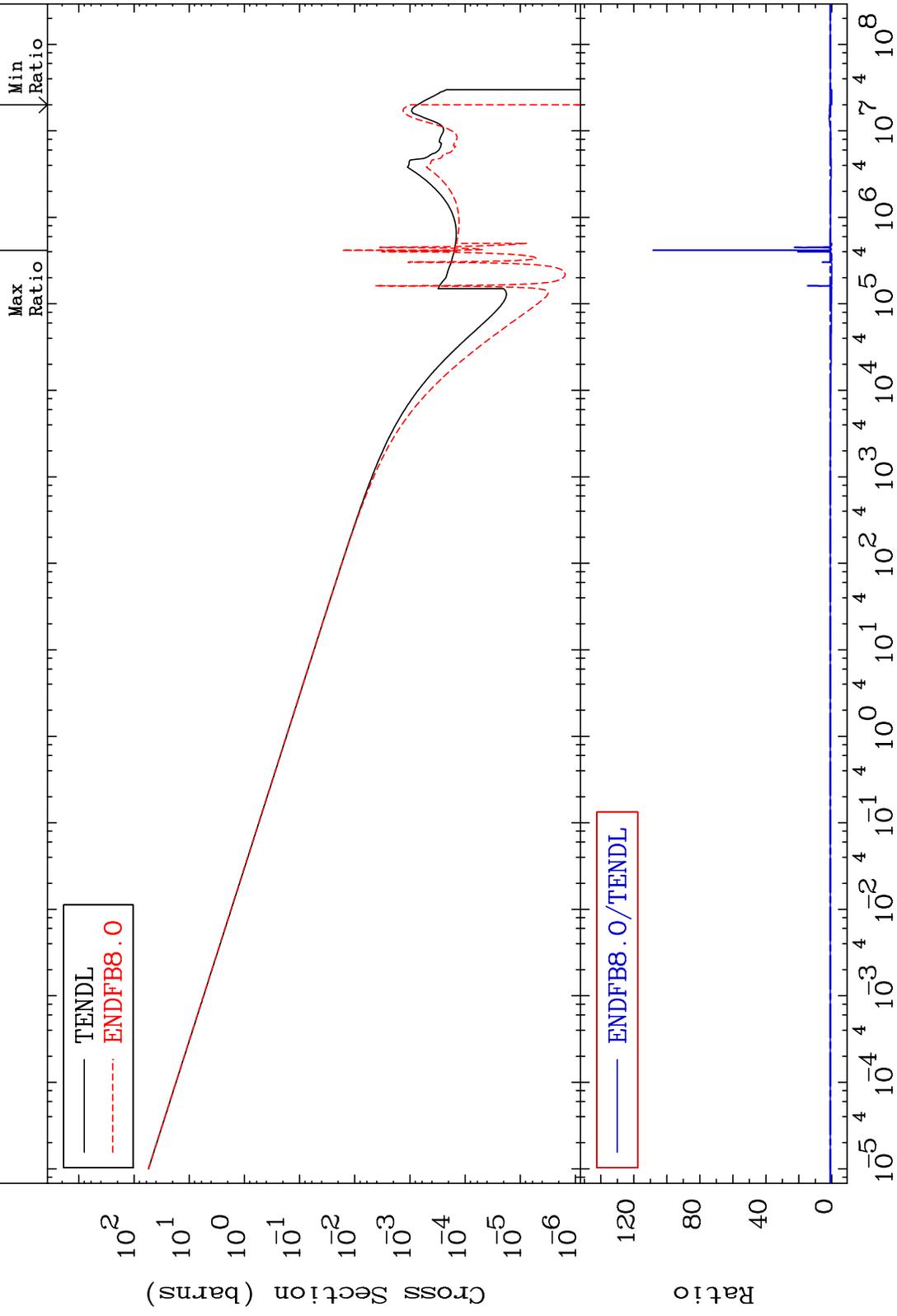
MAT 2049

(n, γ)

20-Ca-48

Cross Section

-100.0 To 9999. %

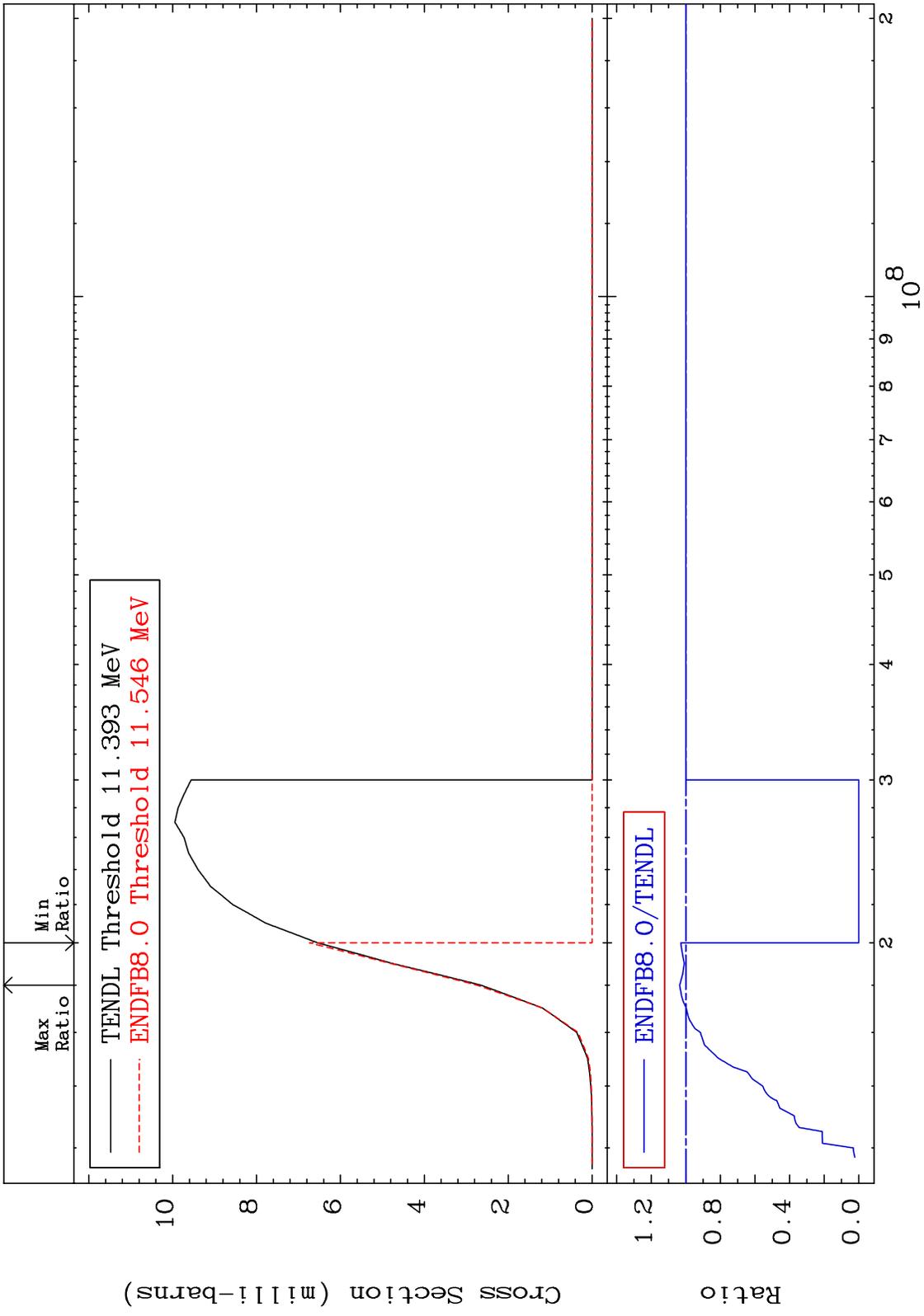


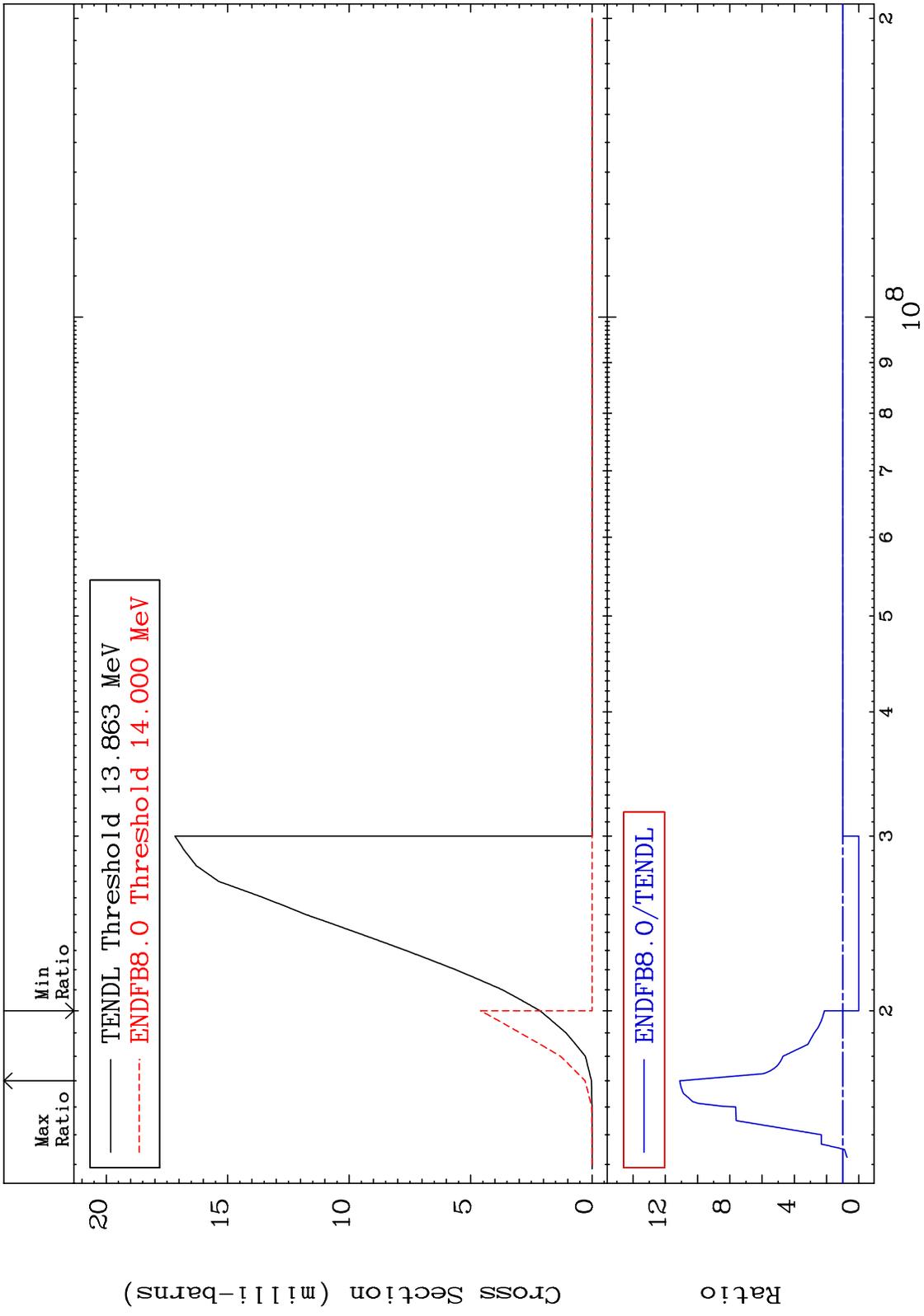
30

Incident Energy (eV)

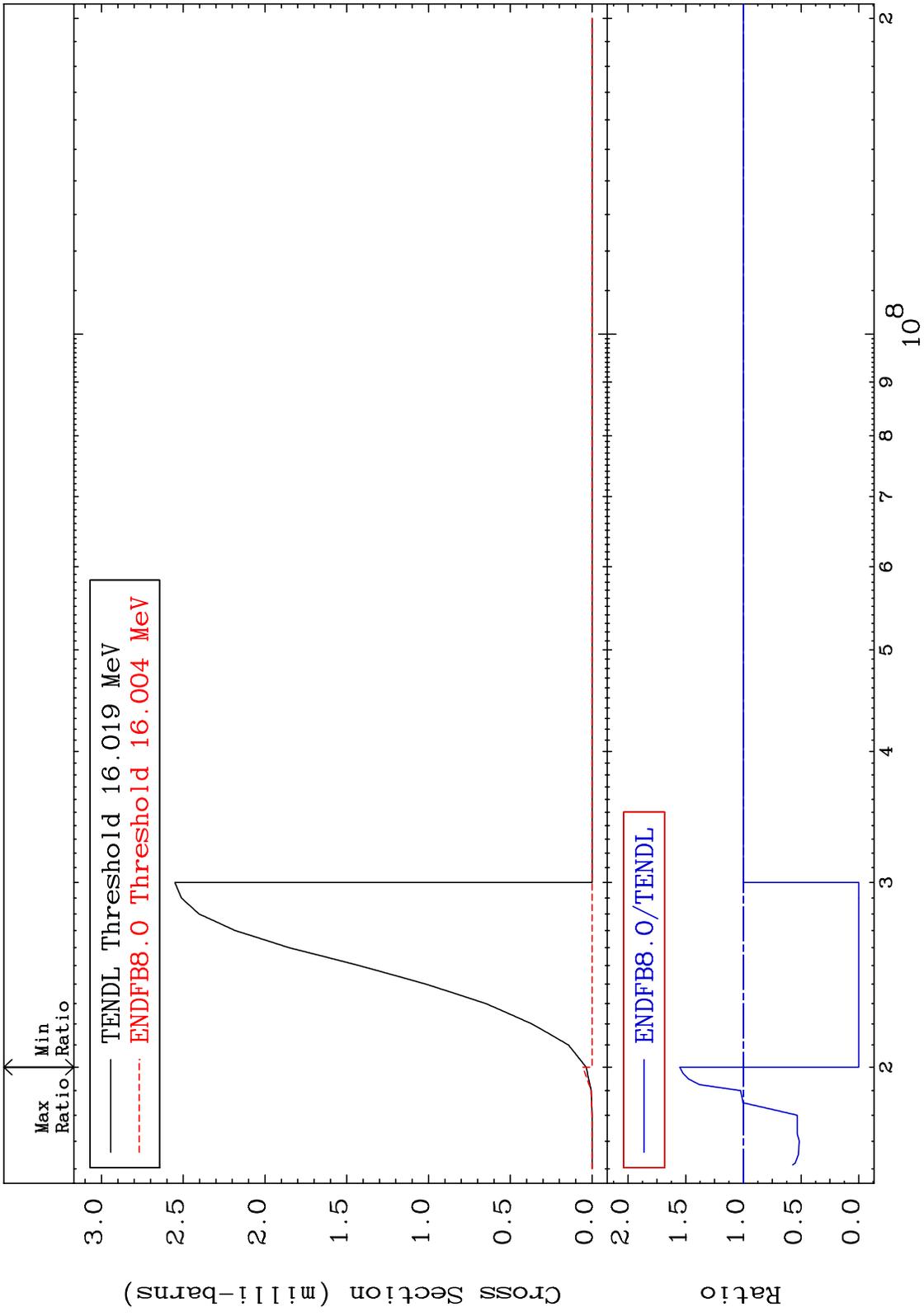
20-Ca-48

MAT 2049 (n,p) Cross Section 20-Ca-48
 -100.0 To 3.552 %

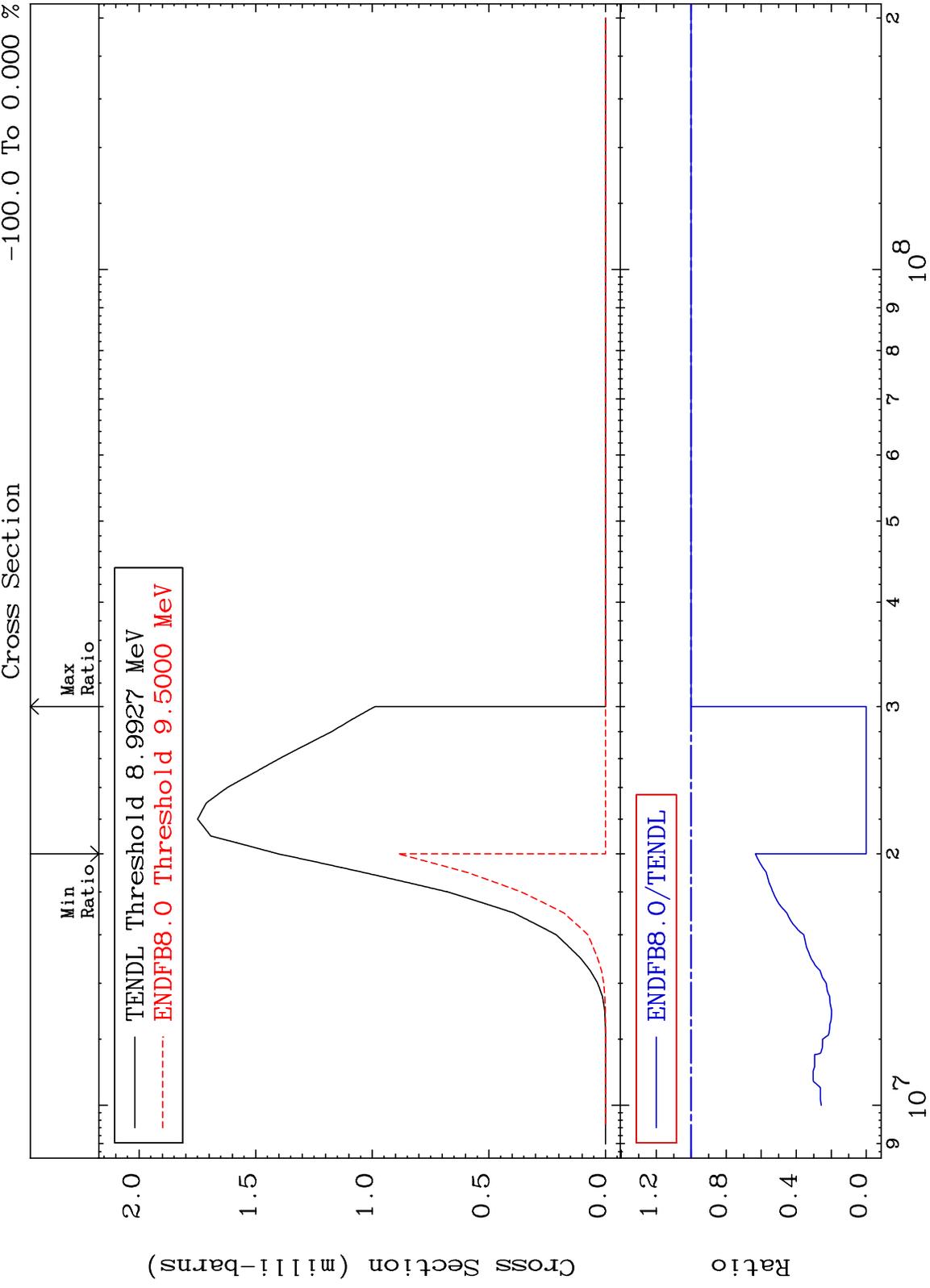




MAT 2049 (n,t) Cross Section 20-Ca-48
 -100.0 To 55.18 %

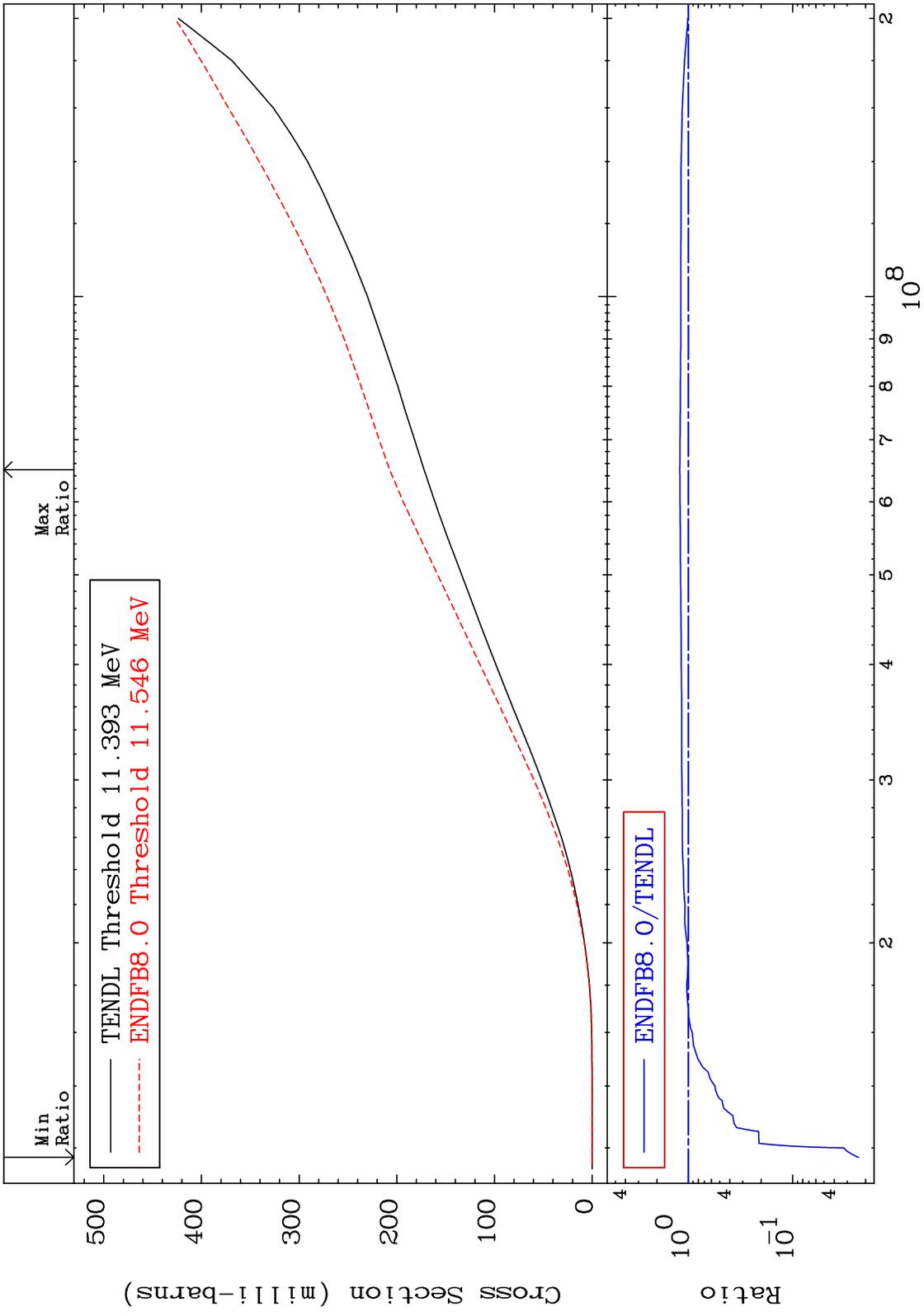


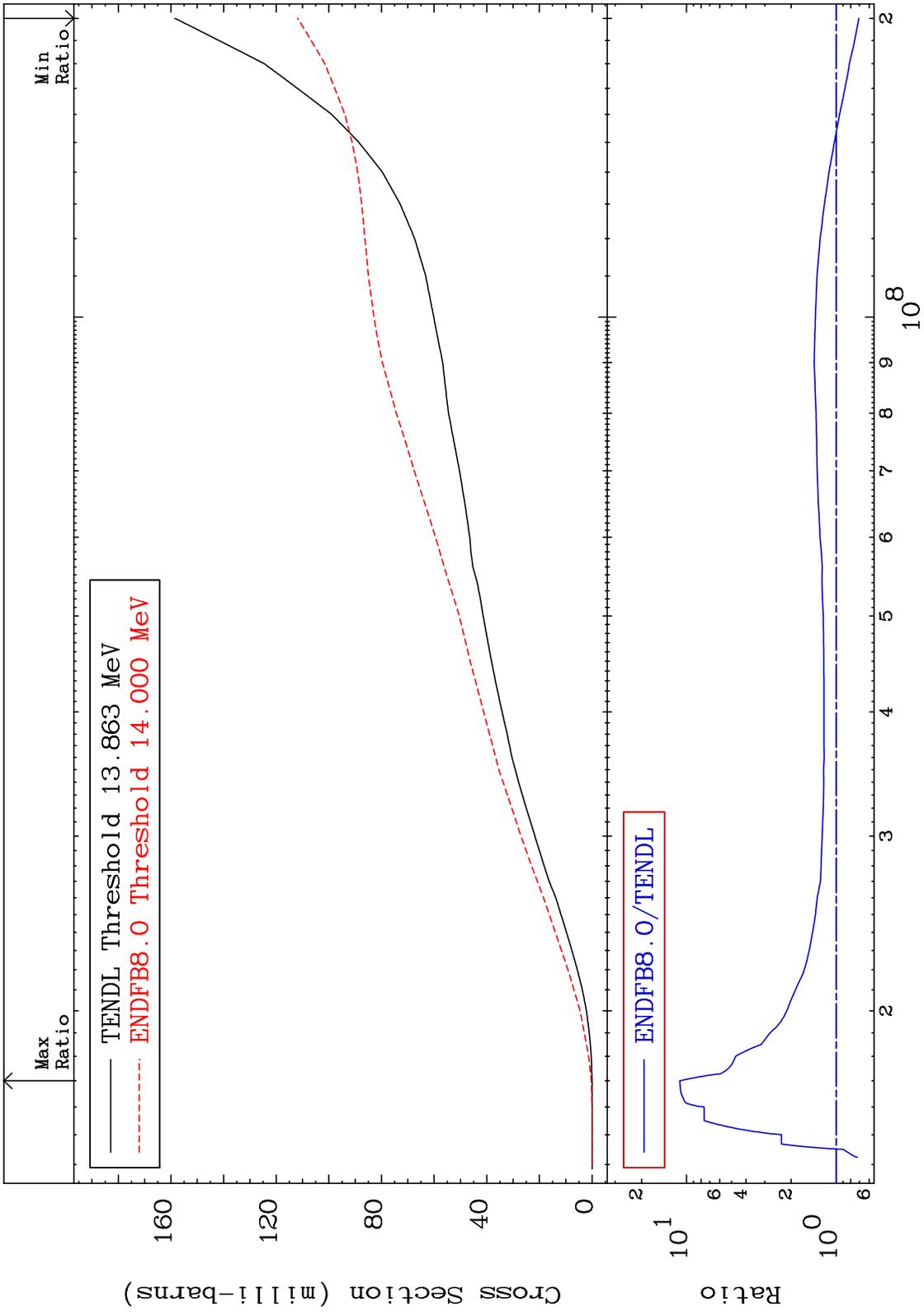
MAT 2049 (n, α) 20-Ca-48 -100.0 To 0.000 %



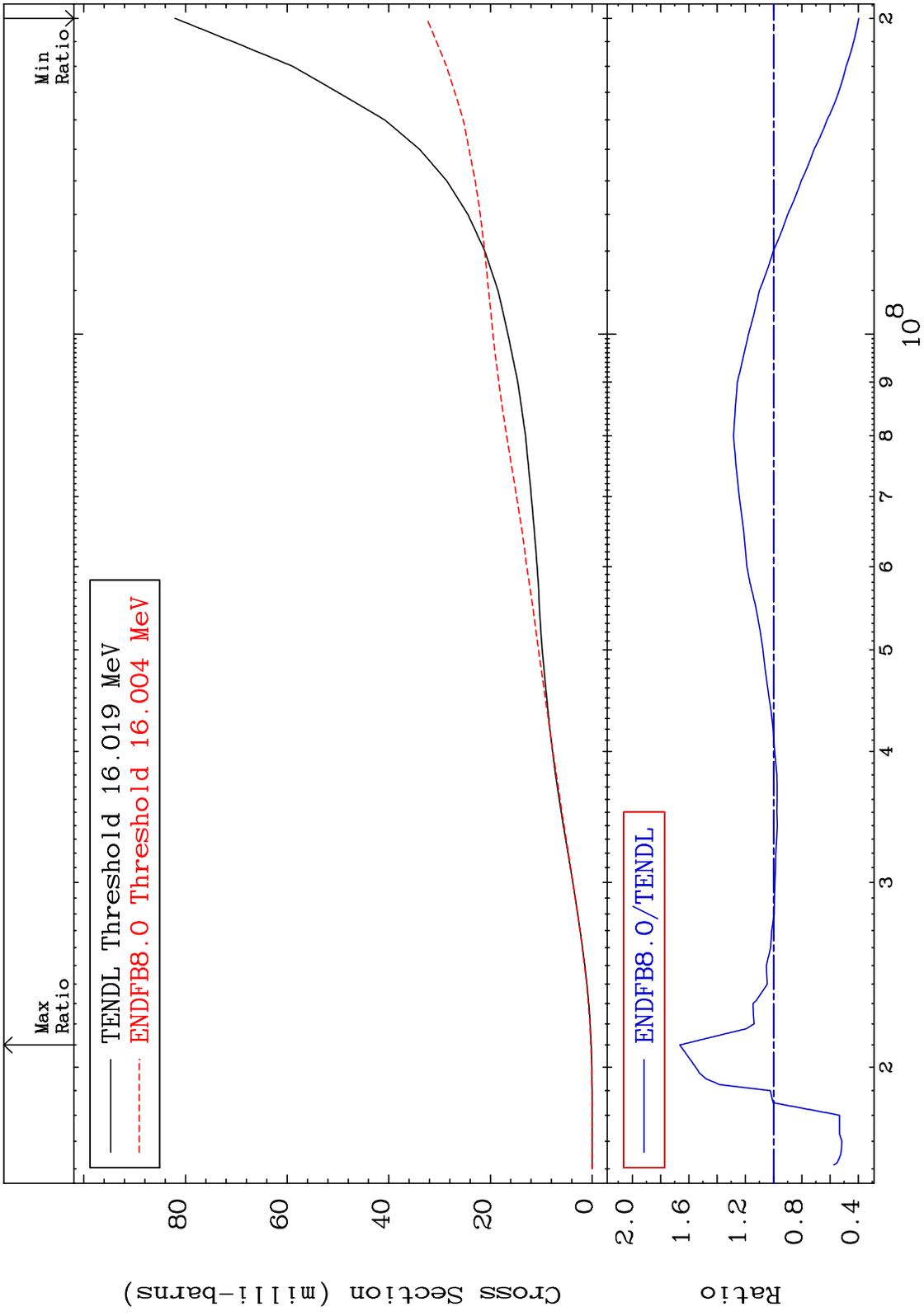
34 Incident Energy (eV) 20-Ca-48

MAT 2049 Hydrogen Production Cross Section 20-Ca-48
 -97.68 To 20.58 %





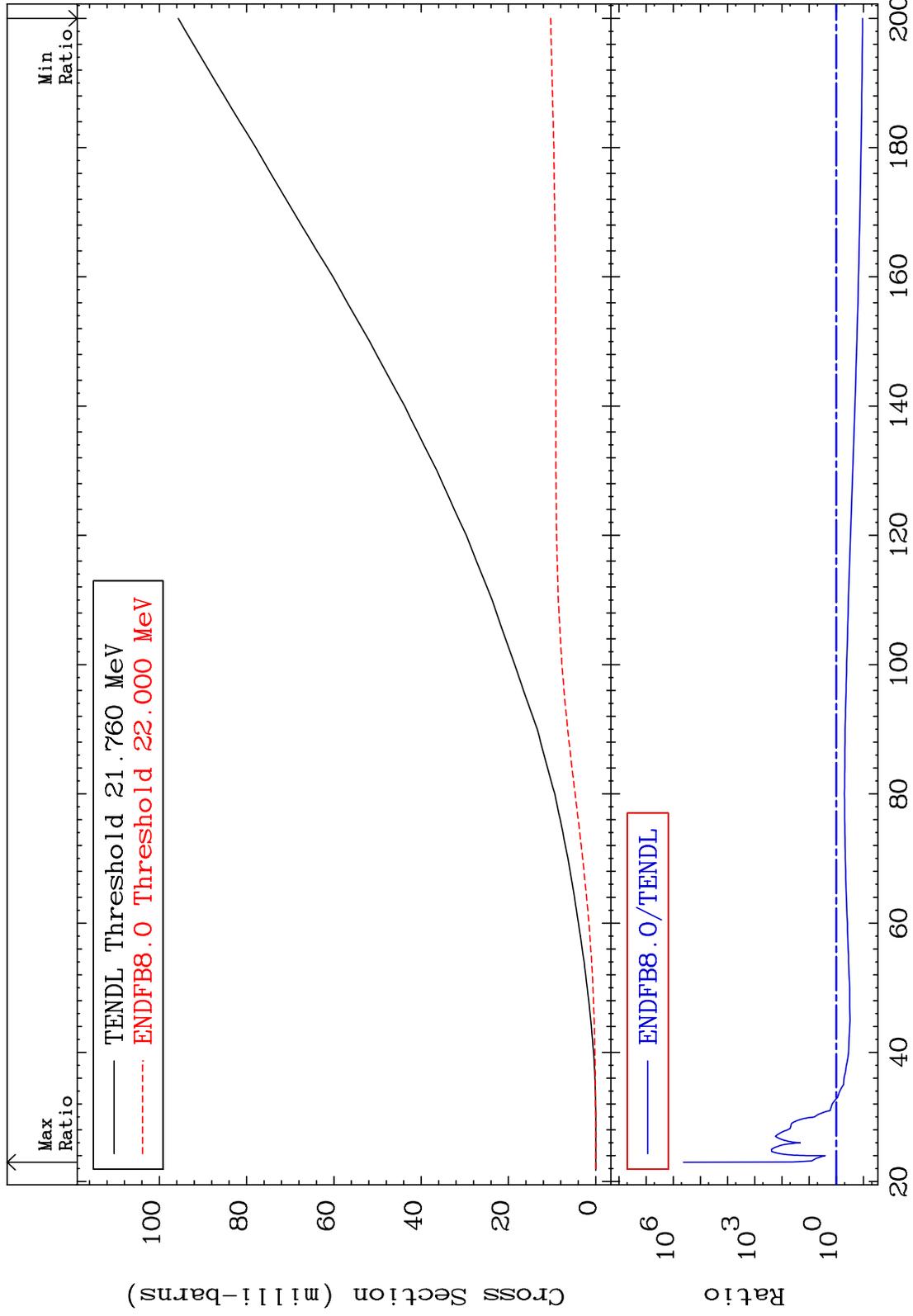
MAT 2049 Tritium Production Cross Section 20-Ca-48
 -60.35 To 66.45 %



MAT 2049

He-3 Production
Cross Section

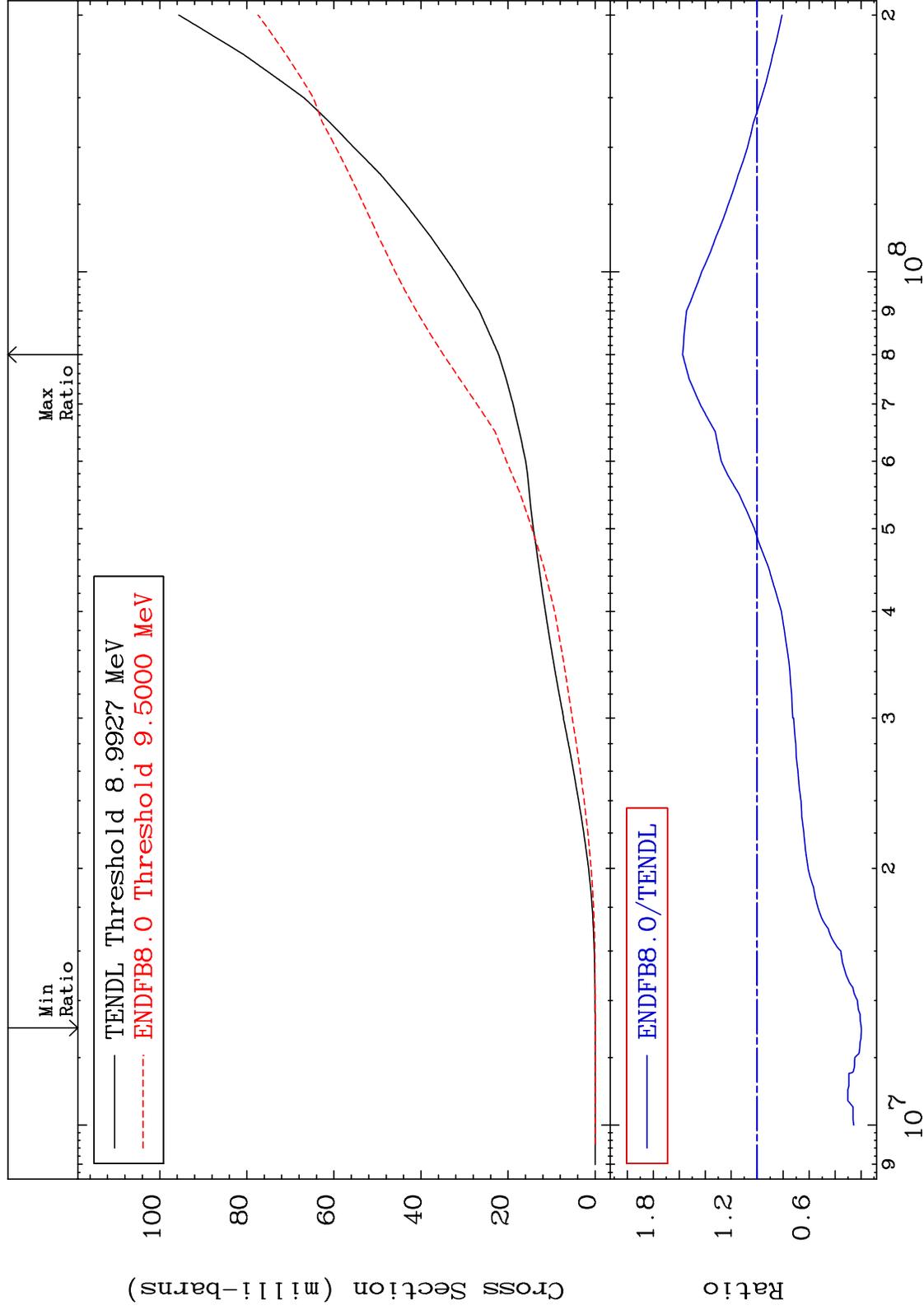
20-Ca-48
-89.19 To 9999. %



MAT 2049

He-4 Production
Cross Section

20-Ca-48
-80.22 To 57.36 %



39

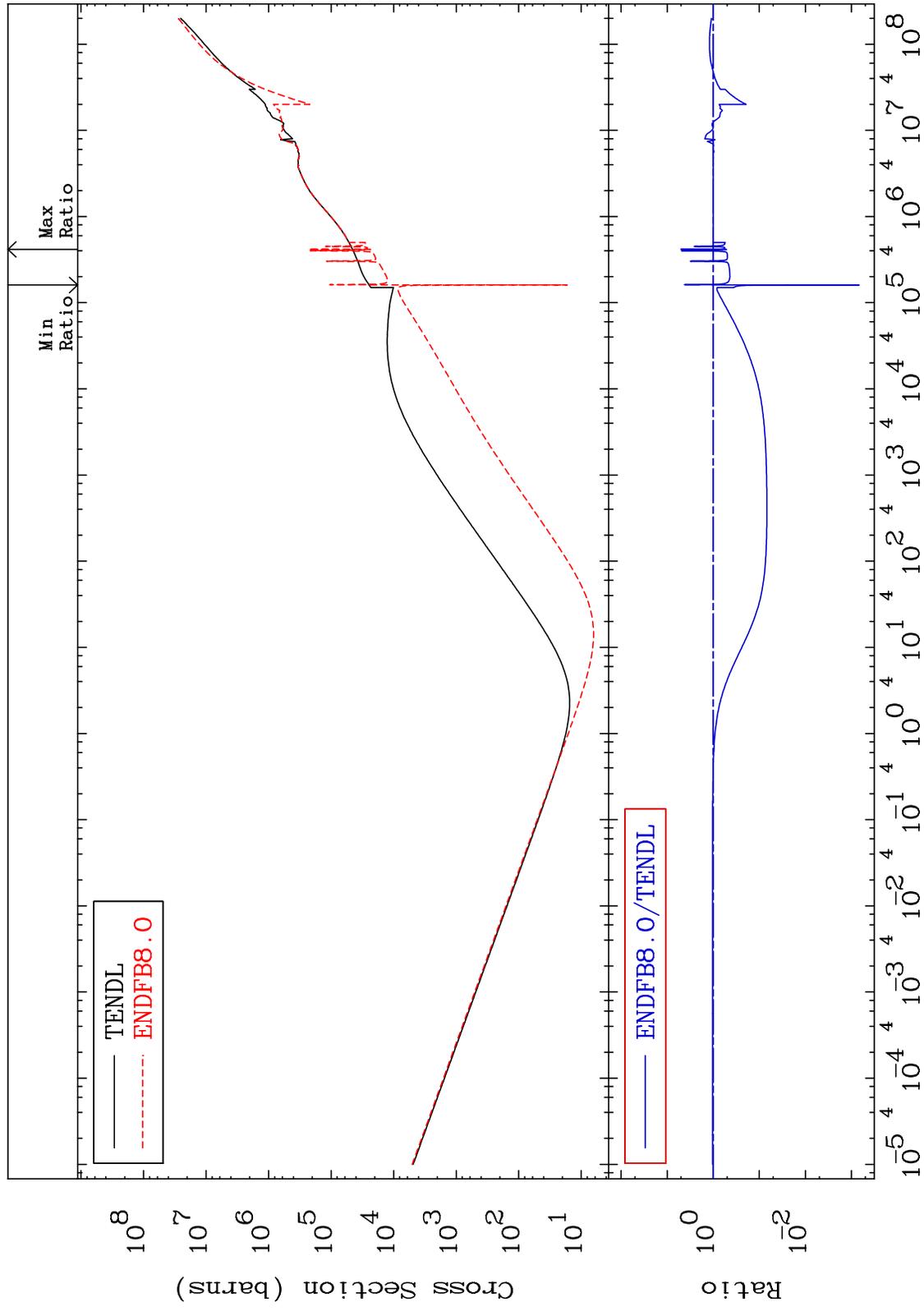
Incident Energy (eV)

20-Ca-48

MAT 2049

Kerma total (eV-barns)
Cross Section

20-Ca-48
-99.93 To 404.9 %

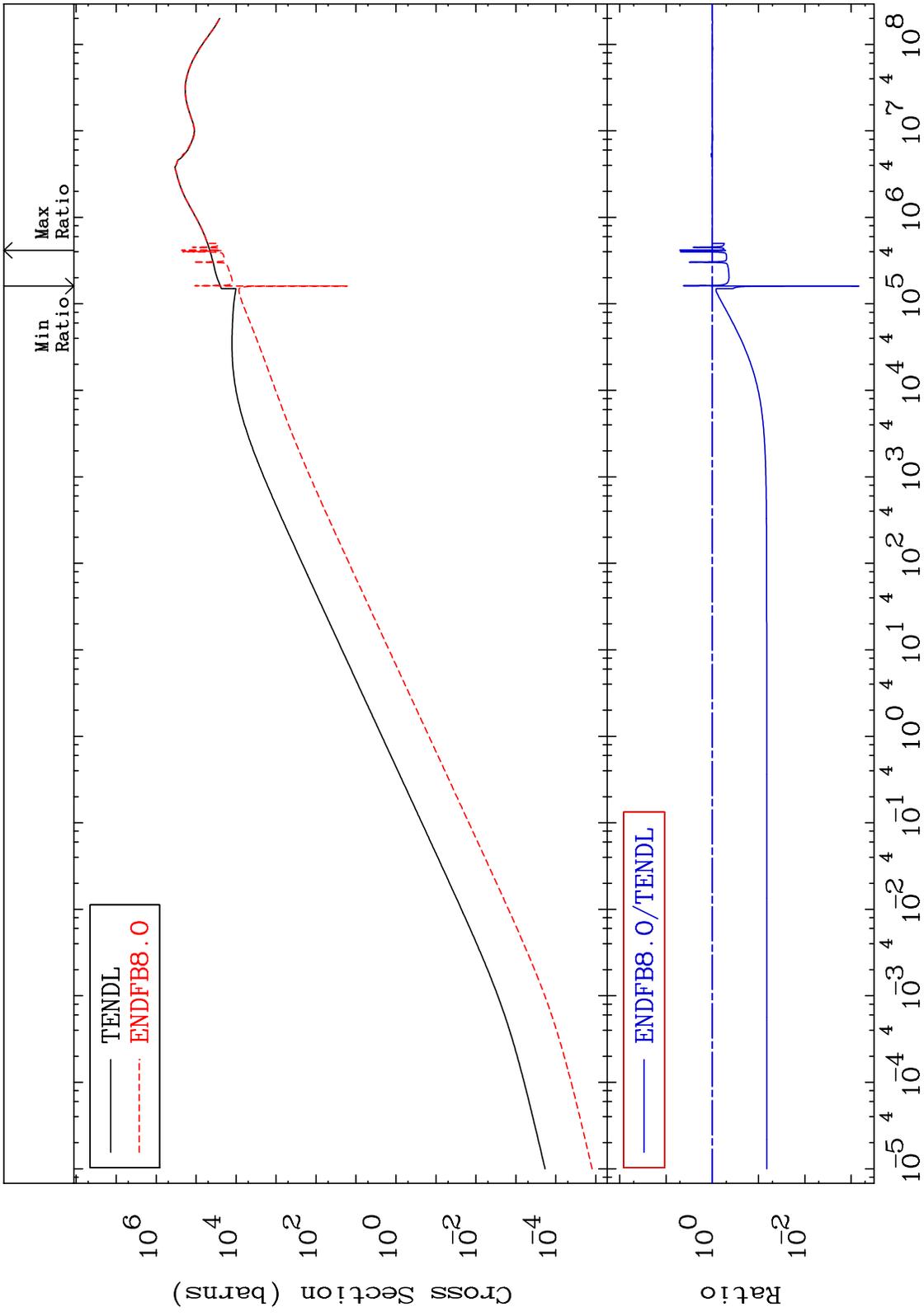


40

Incident Energy (eV)

20-Ca-48

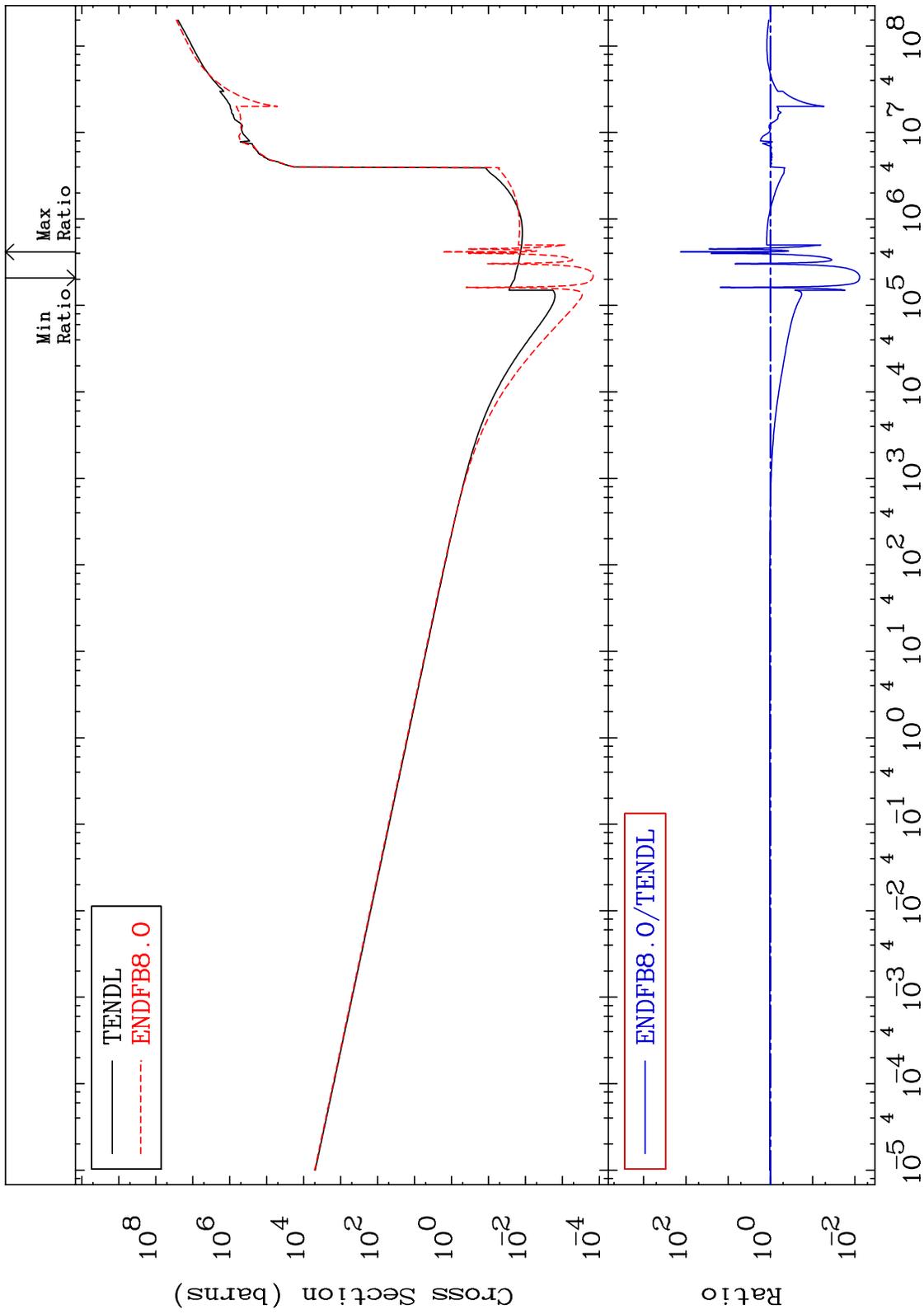
MAT 2049 Kerma elastic Cross Section 20-Ca-48
 -99.93 To 404.9 %



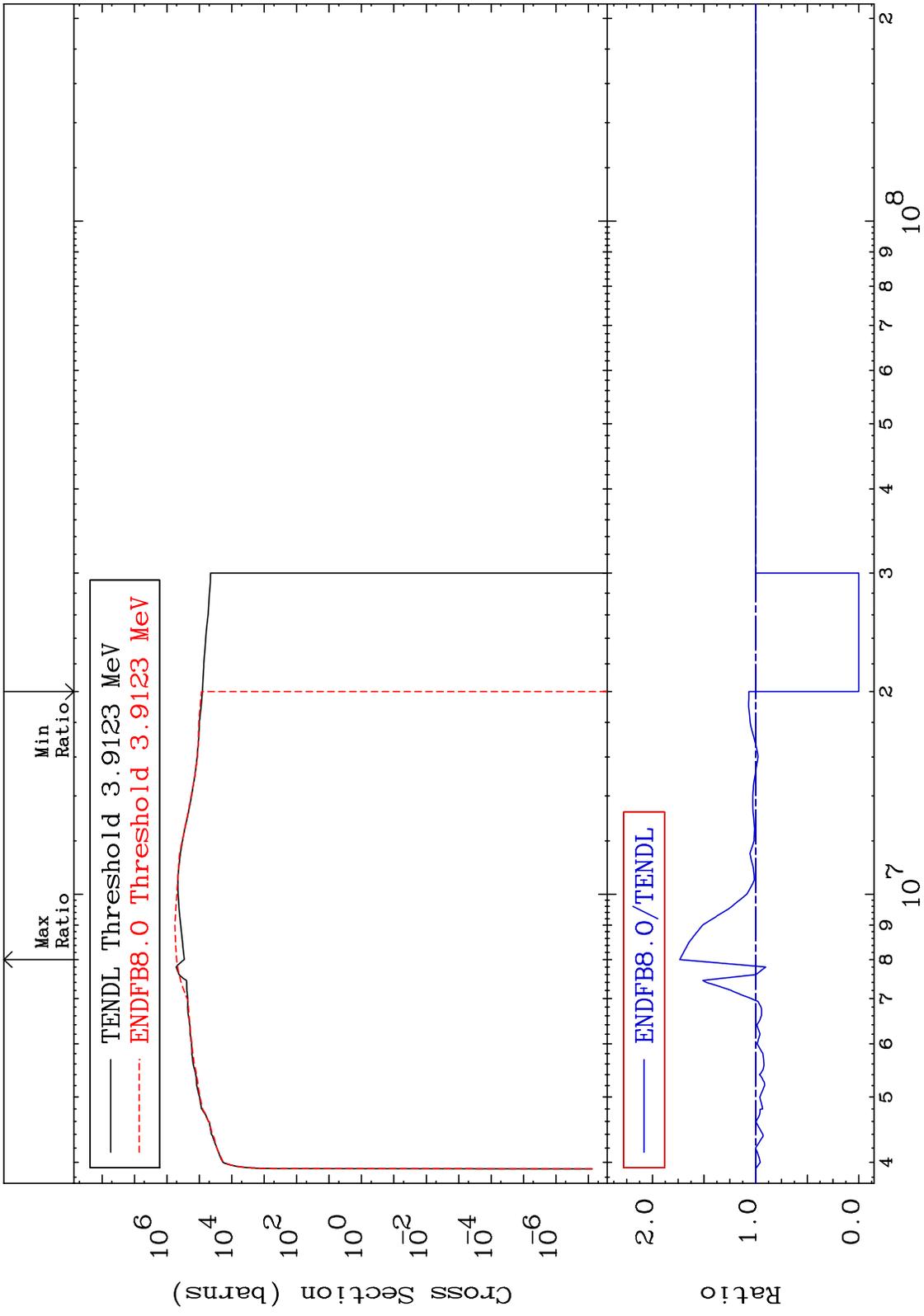
MAT 2049

Kerma non-elastic (all but mt.2)
Cross Section

20-Ca-48
-99.23 To 9999. %

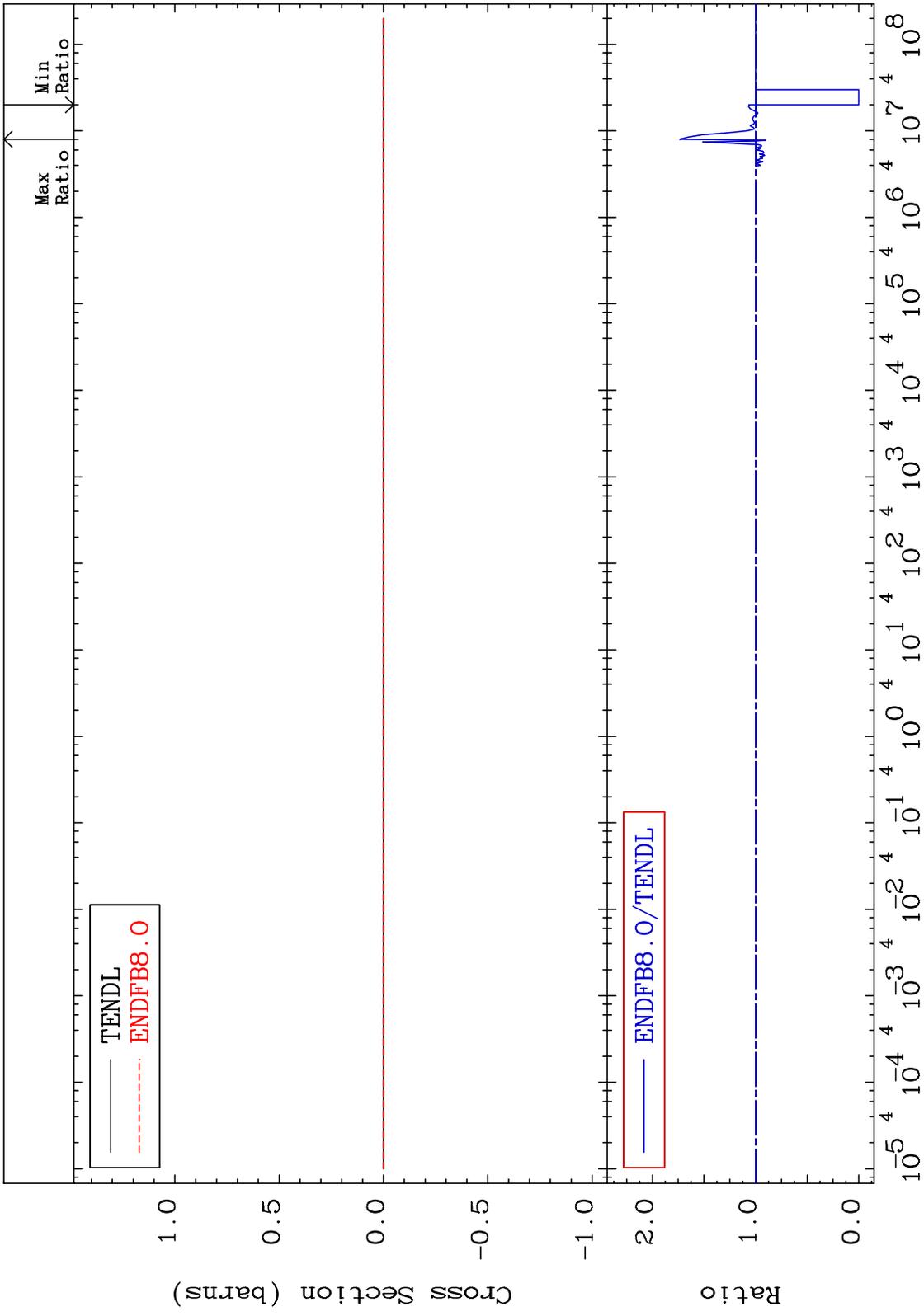


MAT 2049 Kerma inelastic (mt51-91) 20-Ca-48
 Cross Section -100.0 To 73.54 %



43 Incident Energy (eV) 20-Ca-48

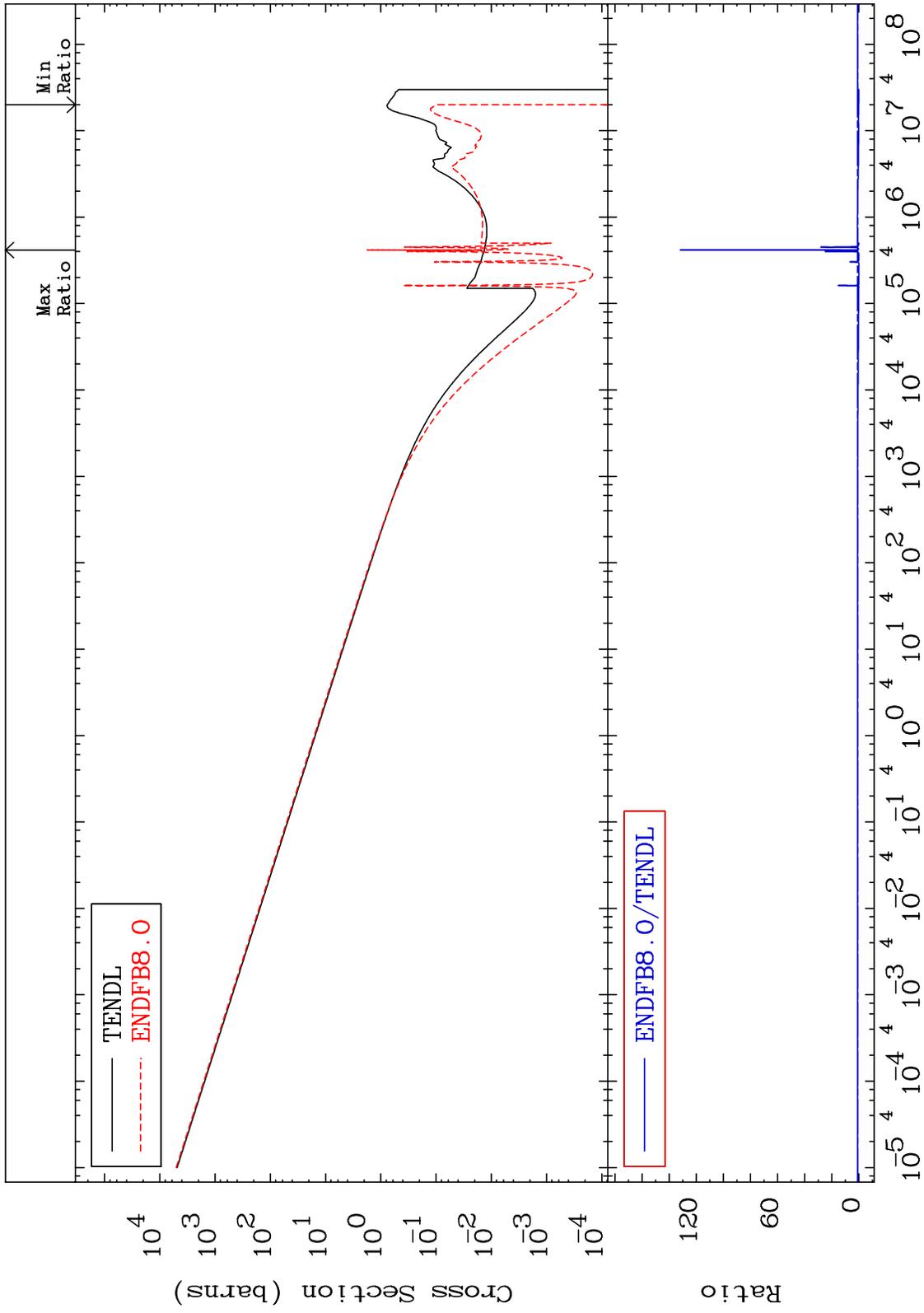
MAT 2049 Kerma fission (mt18 or mt19-20-21-38) 20-Ca-48
 Cross Section -100.0 To 73.54 %



MAT 2049

Kerma capture (mt102)
Cross Section

20-Ca-48
-100.0 To 9999. %



45

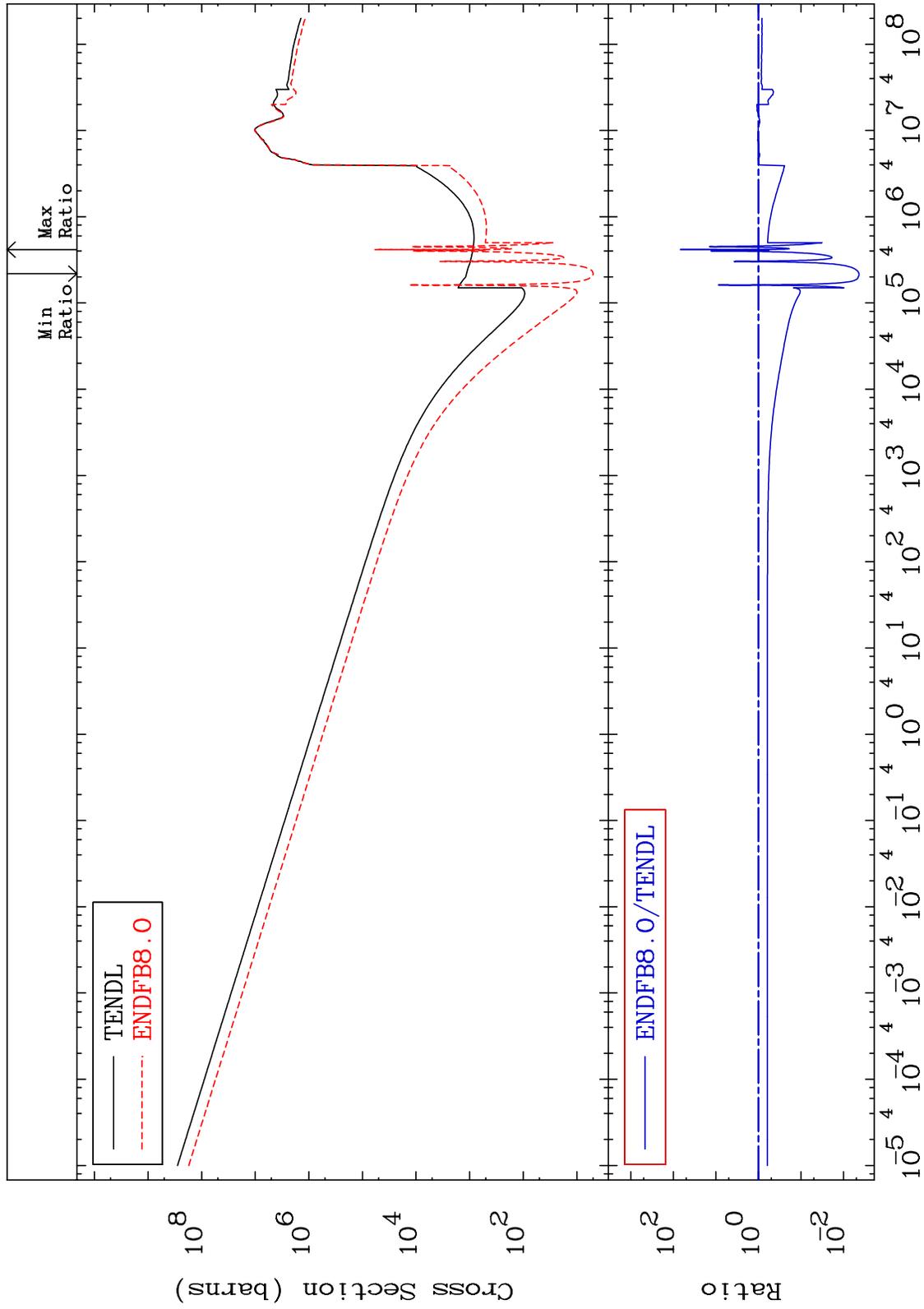
Incident Energy (eV)

20-Ca-48

MAT 2049

Total photon (eV-barns)
Cross Section

20-Ca-48
-99.57 To 6666. %

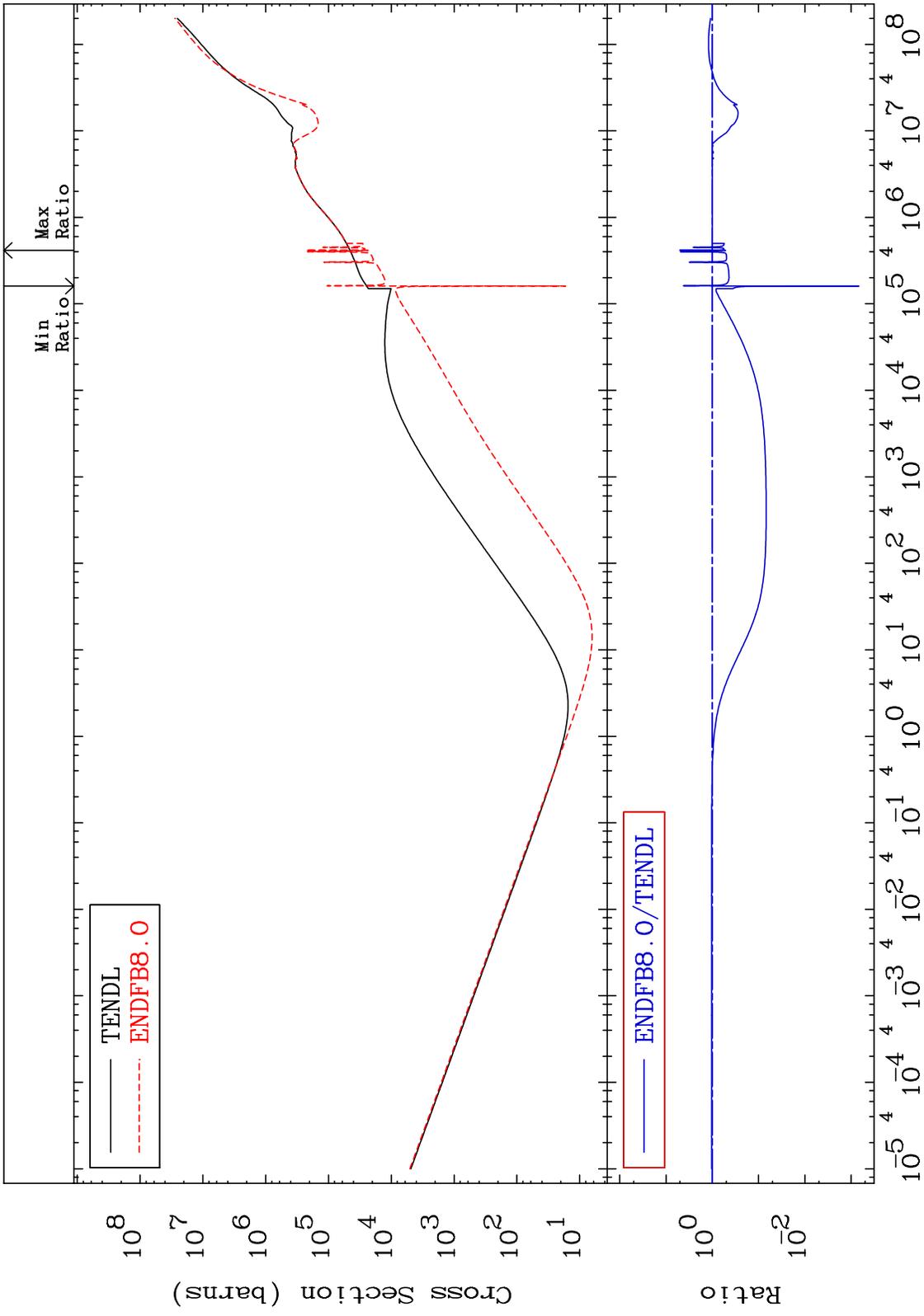


46

Incident Energy (eV)

20-Ca-48

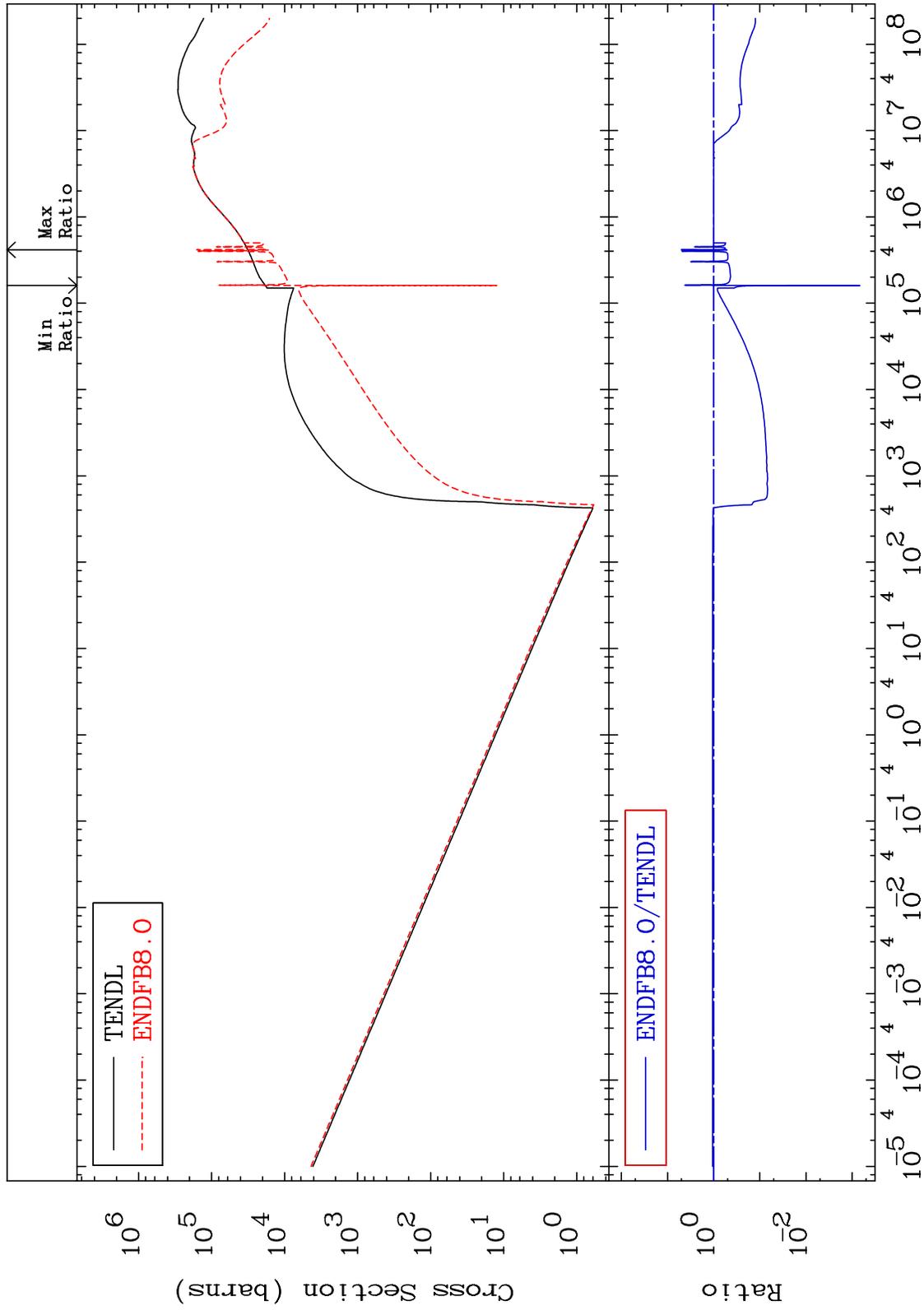
MAT 2049 Total kinematic kerma (high limit) Cross Section 20-Ca-48
 -99.93 To 404.9 %



MAT 2049

Dpa total (eV-barns)
Cross Section

20-Ca-48
-99.93 To 404.8 %

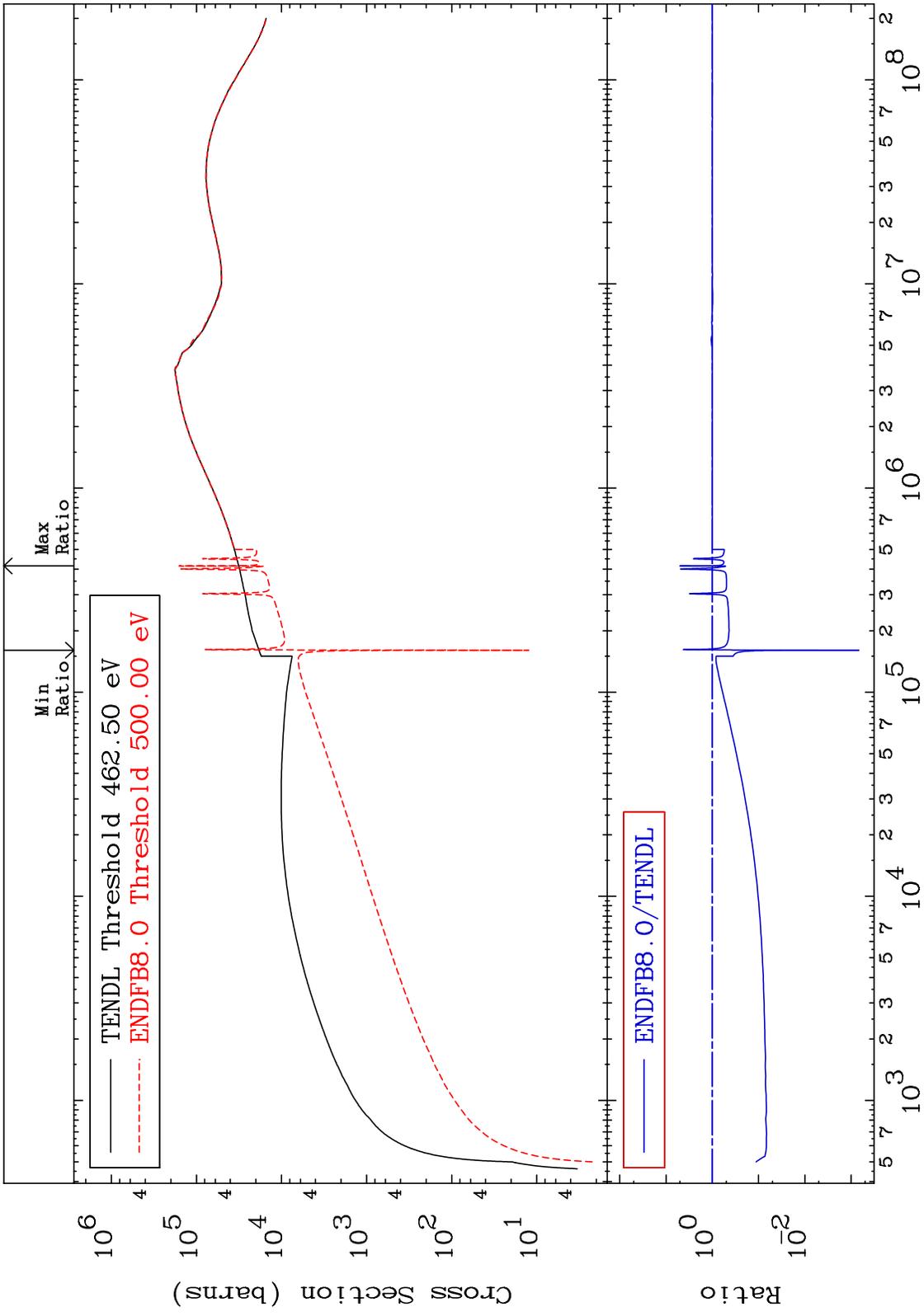


48

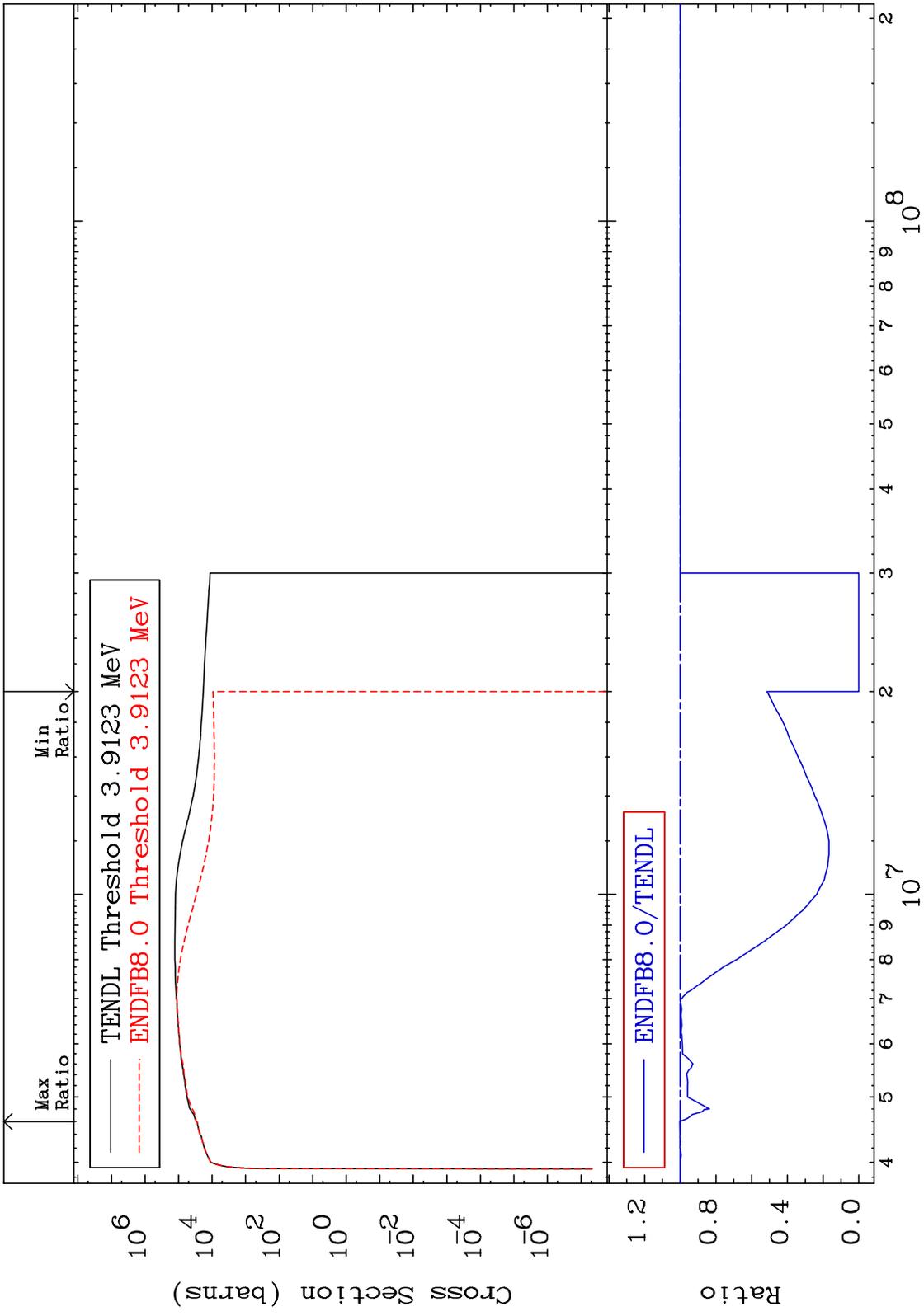
Incident Energy (eV)

20-Ca-48

MAT 2049 Dpa elastic (mt2) 20-Ca-48
 Cross Section -99.93 To 404.8 %



MAT 2049 Dpa inelastic (mt51-91) 20-Ca-48
 Cross Section -100.0 To 0.298 %



MAT 2049 Dpa disappearance (mt102 -120) 20-Ca-48
 Cross Section -100.0 To 9999. %

