

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

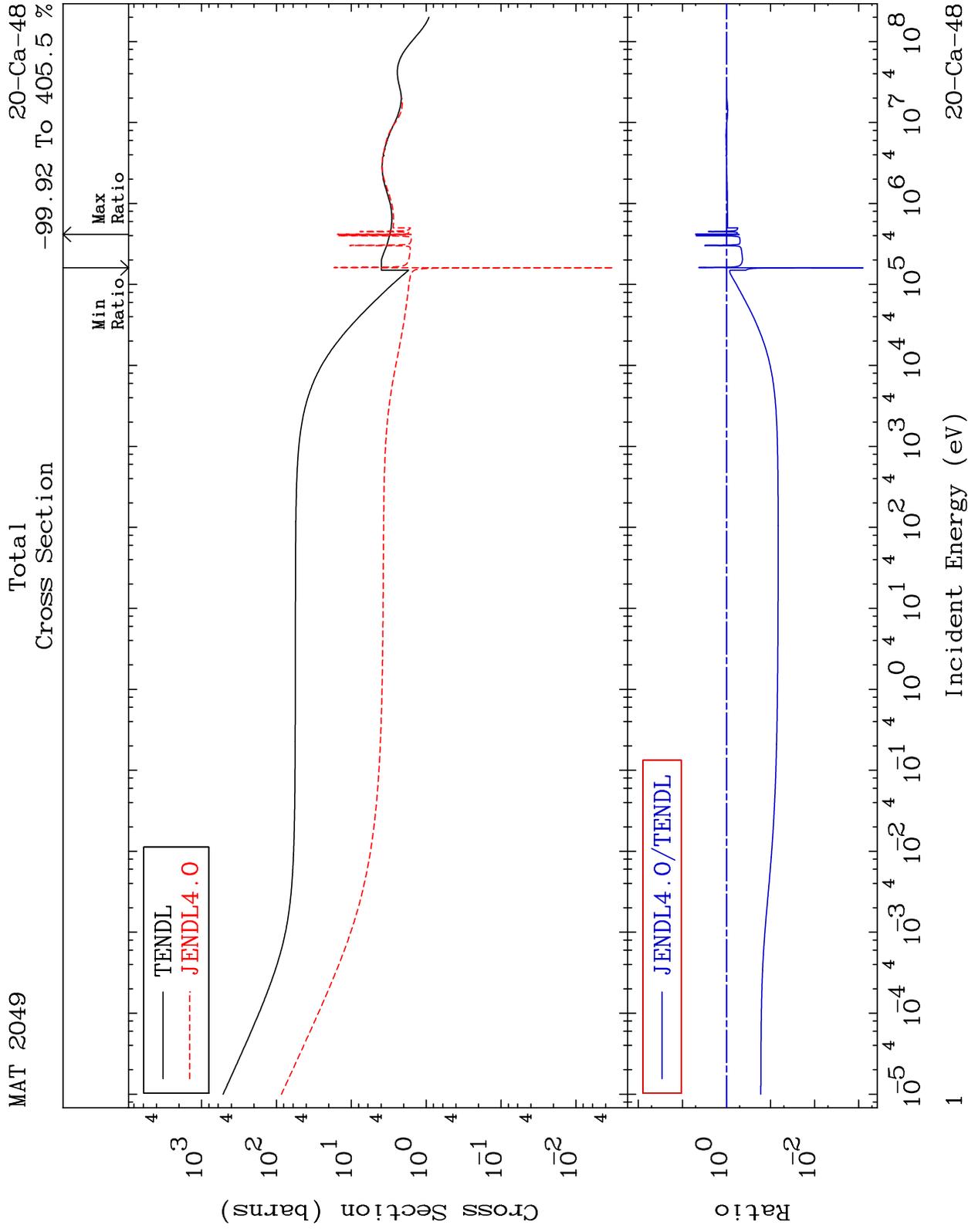
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

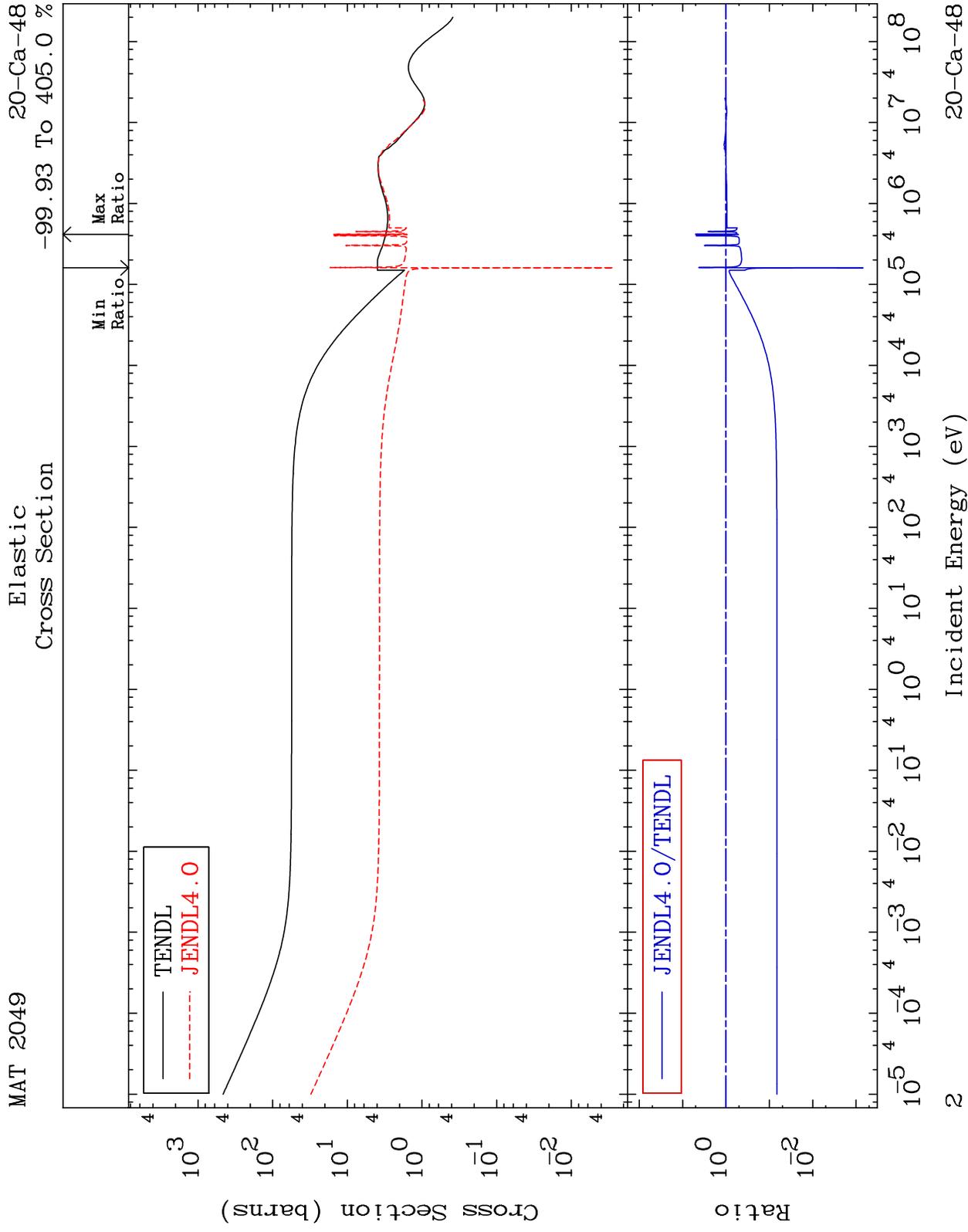
U.S.A.

Tele: 925-443-1911

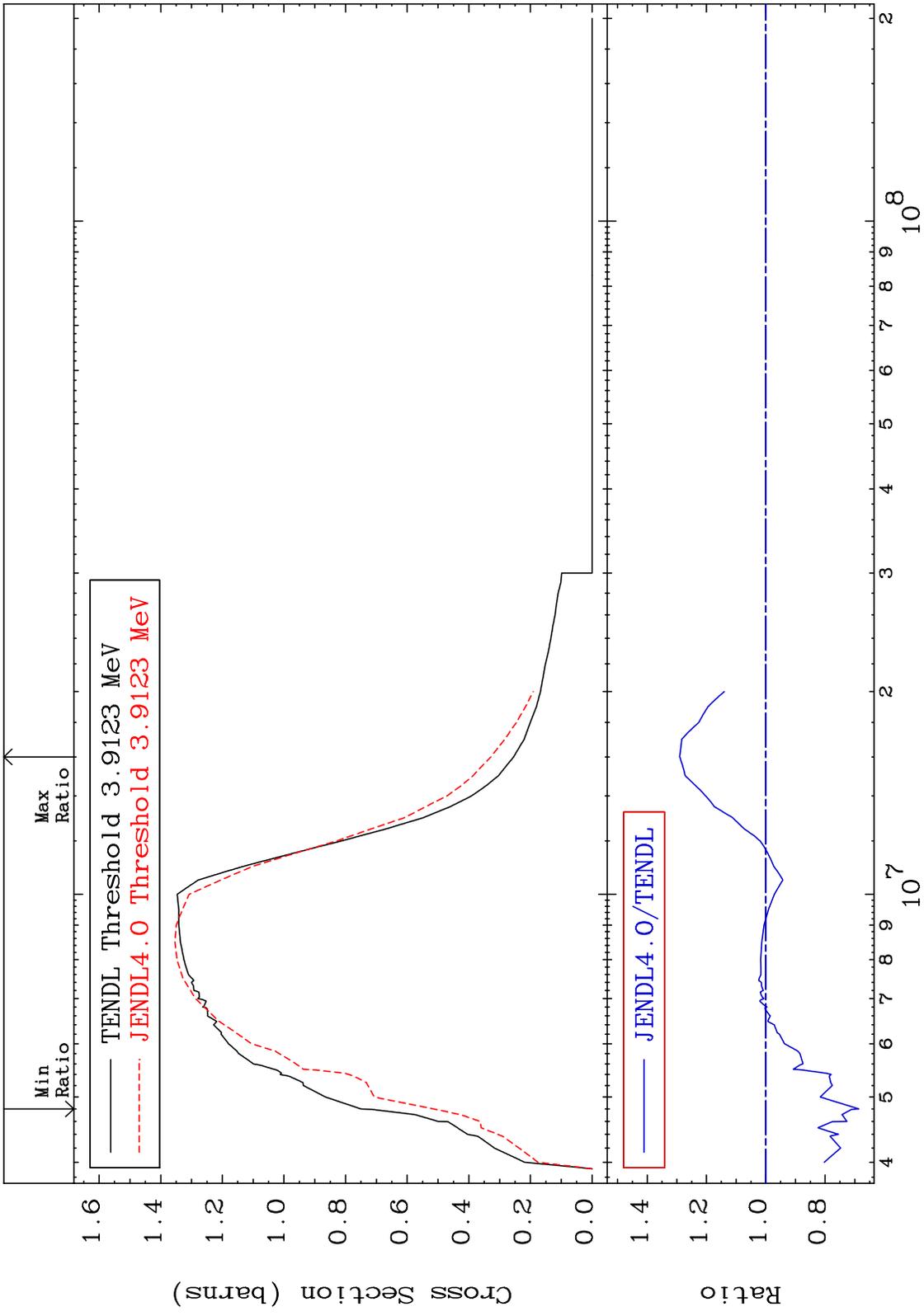
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start



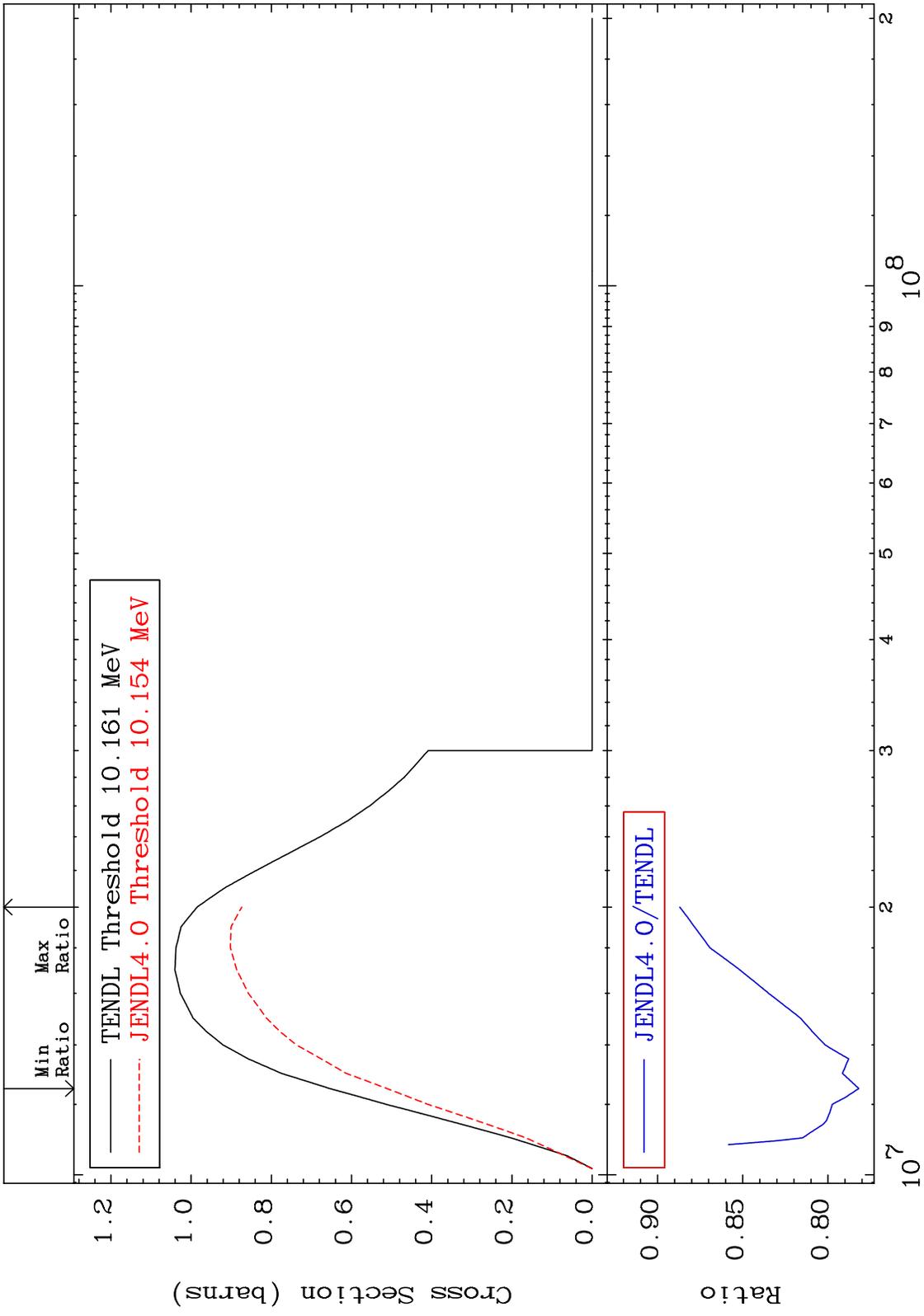


MAT 2049 Inelastic Cross Section 20-Ca-48 -31.35 To 29.02 %

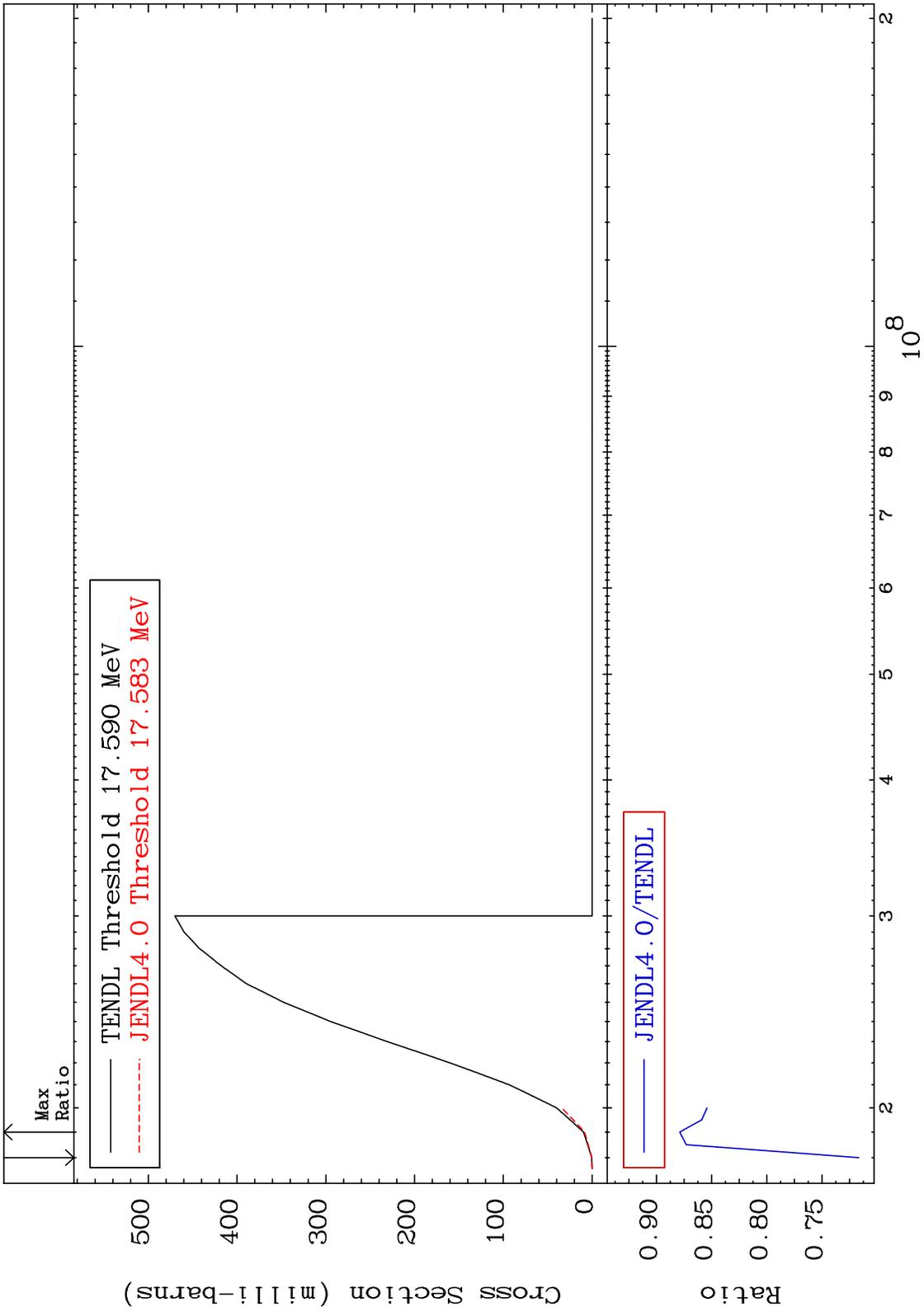


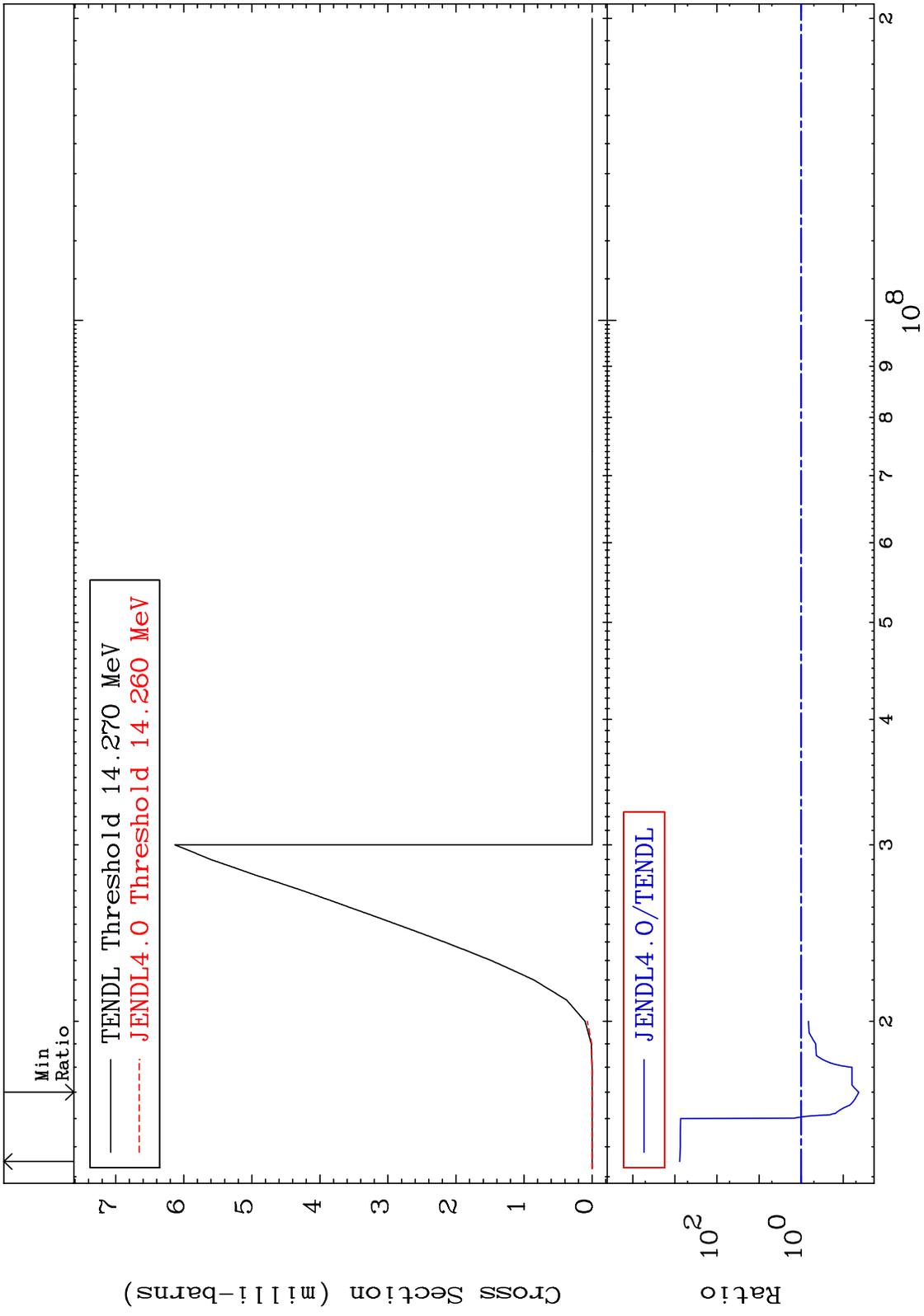
3 Incident Energy (eV) 20-Ca-48

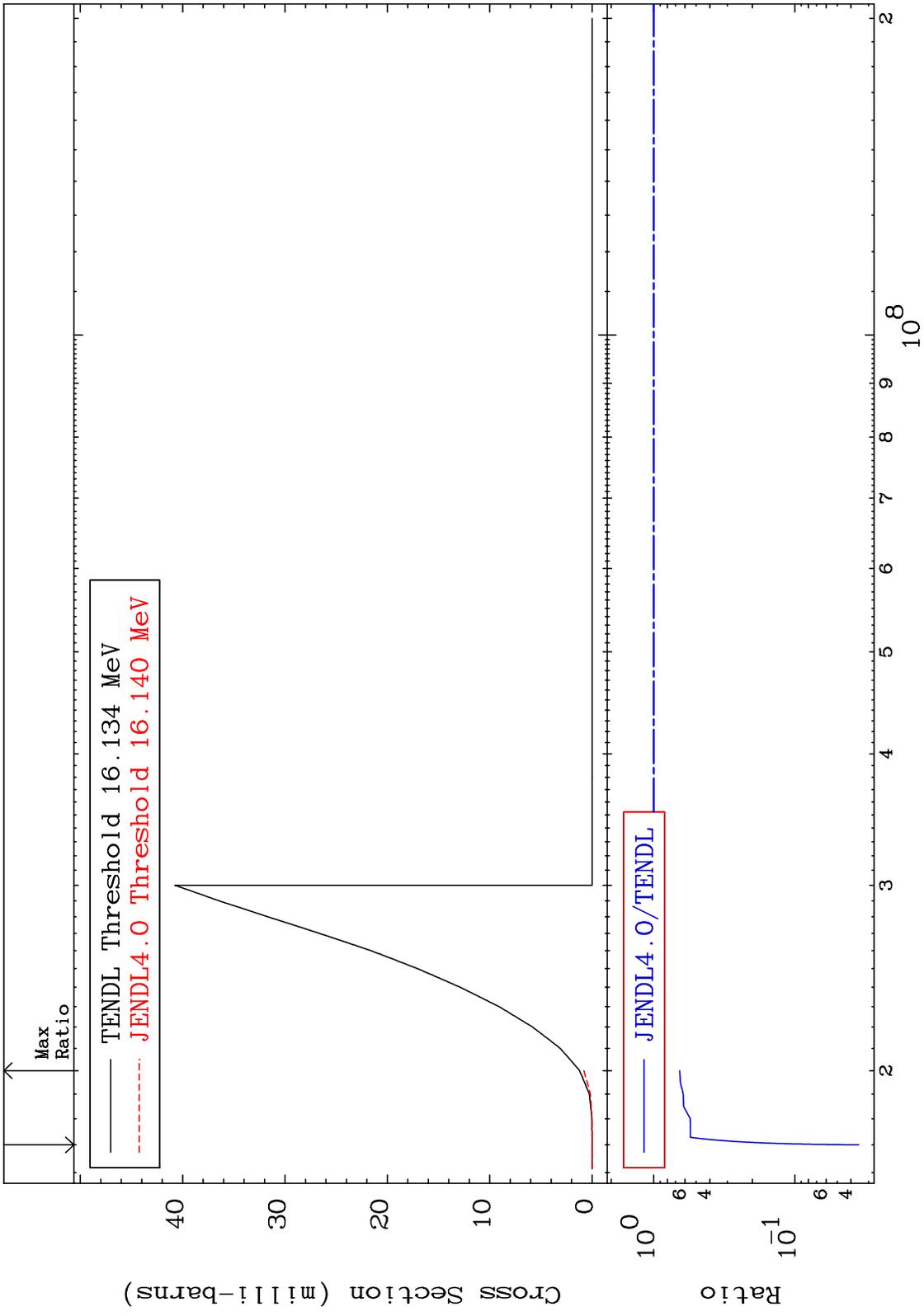
MAT 2049 (n,2n) Cross Section 20-Ca-48 -21.81 To -11.30%



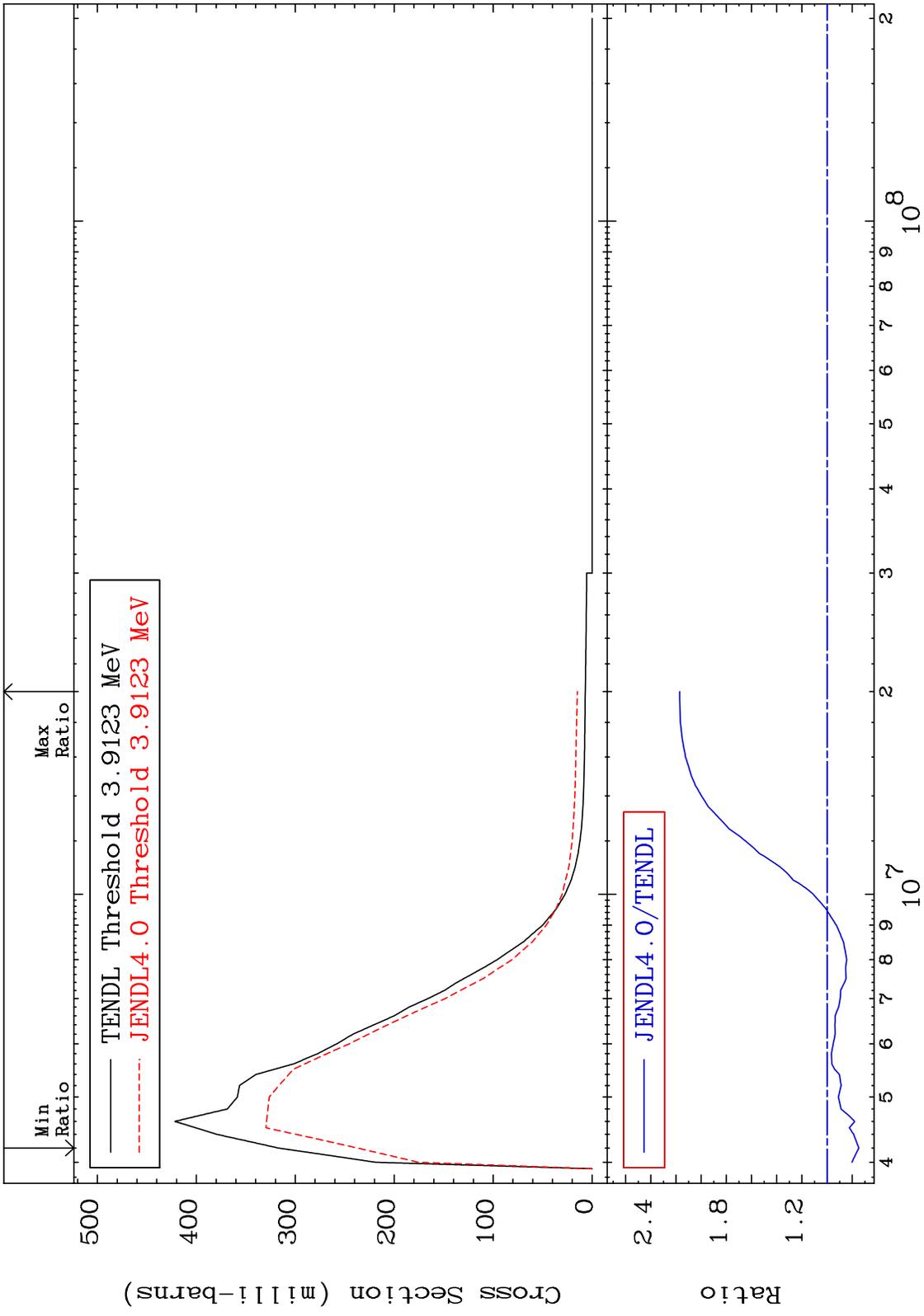
MAT 2049 (n,3n) Cross Section 20-Ca-48 -28.34 To -12.12%







MAT 2049 MT= 51 (n,n') Level Cross Section -25.22 To 117.0 % 20-Ca-48

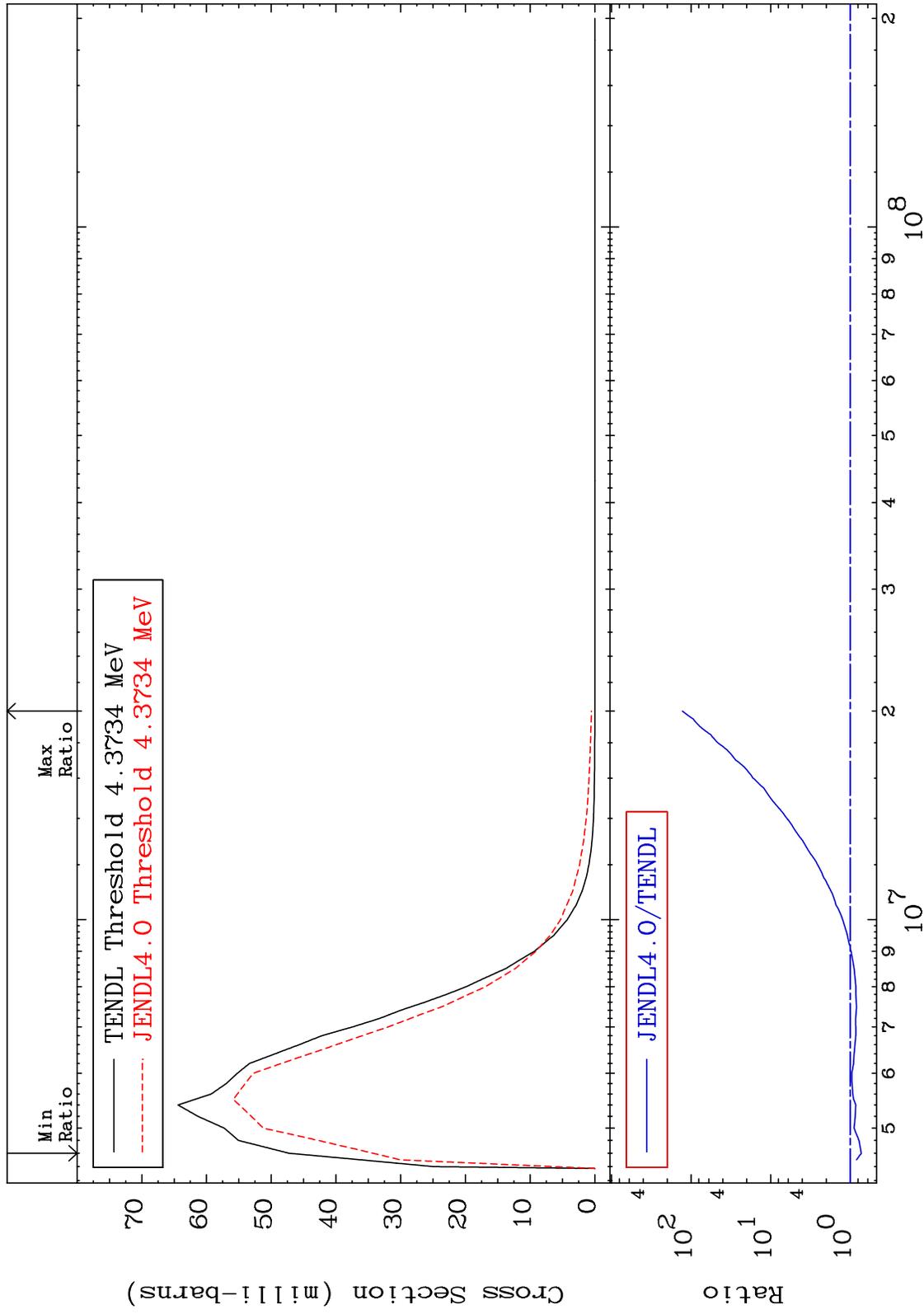


8 Incident Energy (eV) 20-Ca-48

MAT 2049

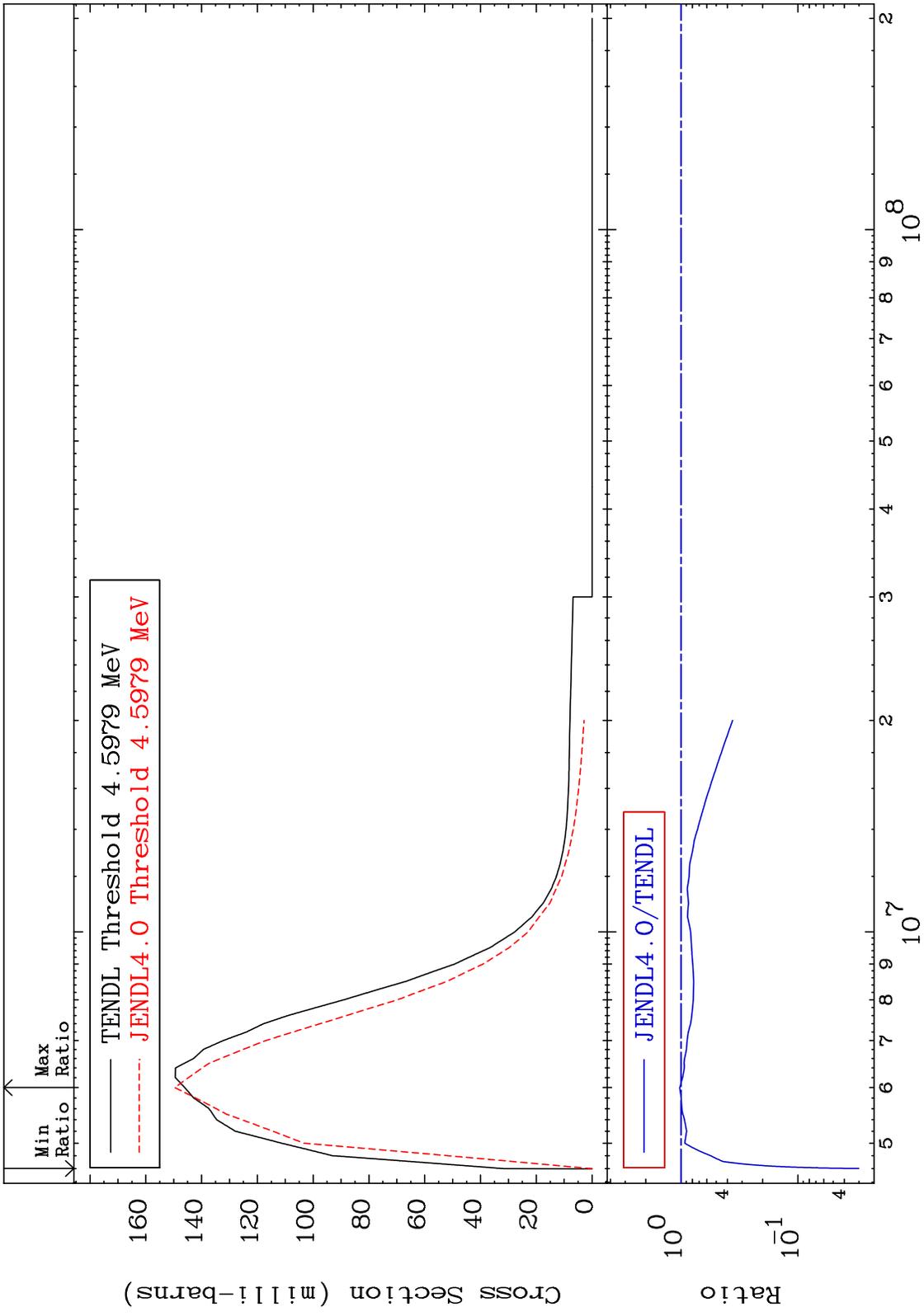
MT= 52 (n,n') Level
Cross Section

20-Ca-48
-27.51 To 9999. %



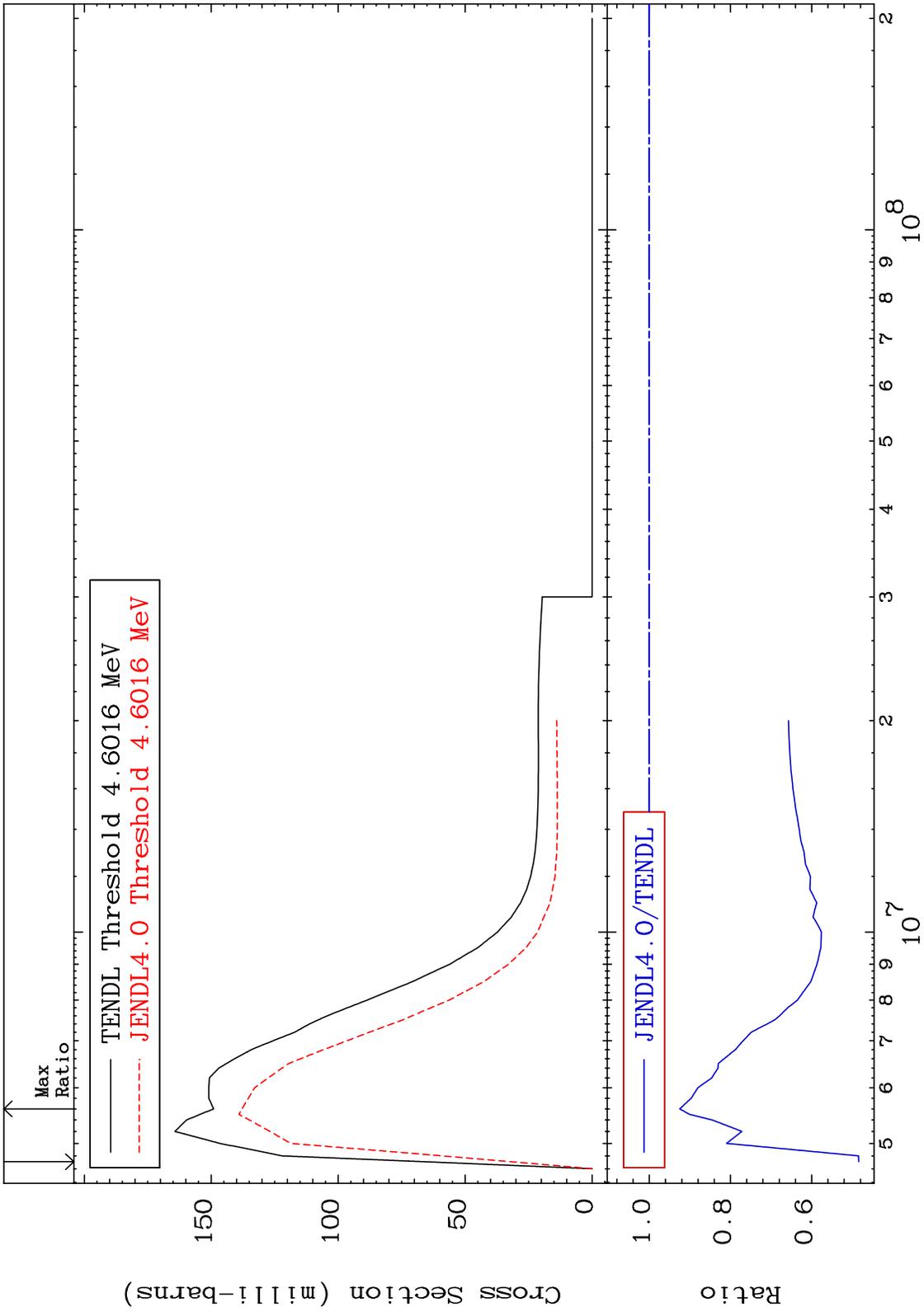
9

MAT 2049 MT= 53 (n,n') Level Cross Section -96.99 To 2.415 % 20-Ca-48



10 Incident Energy (eV) 20-Ca-48

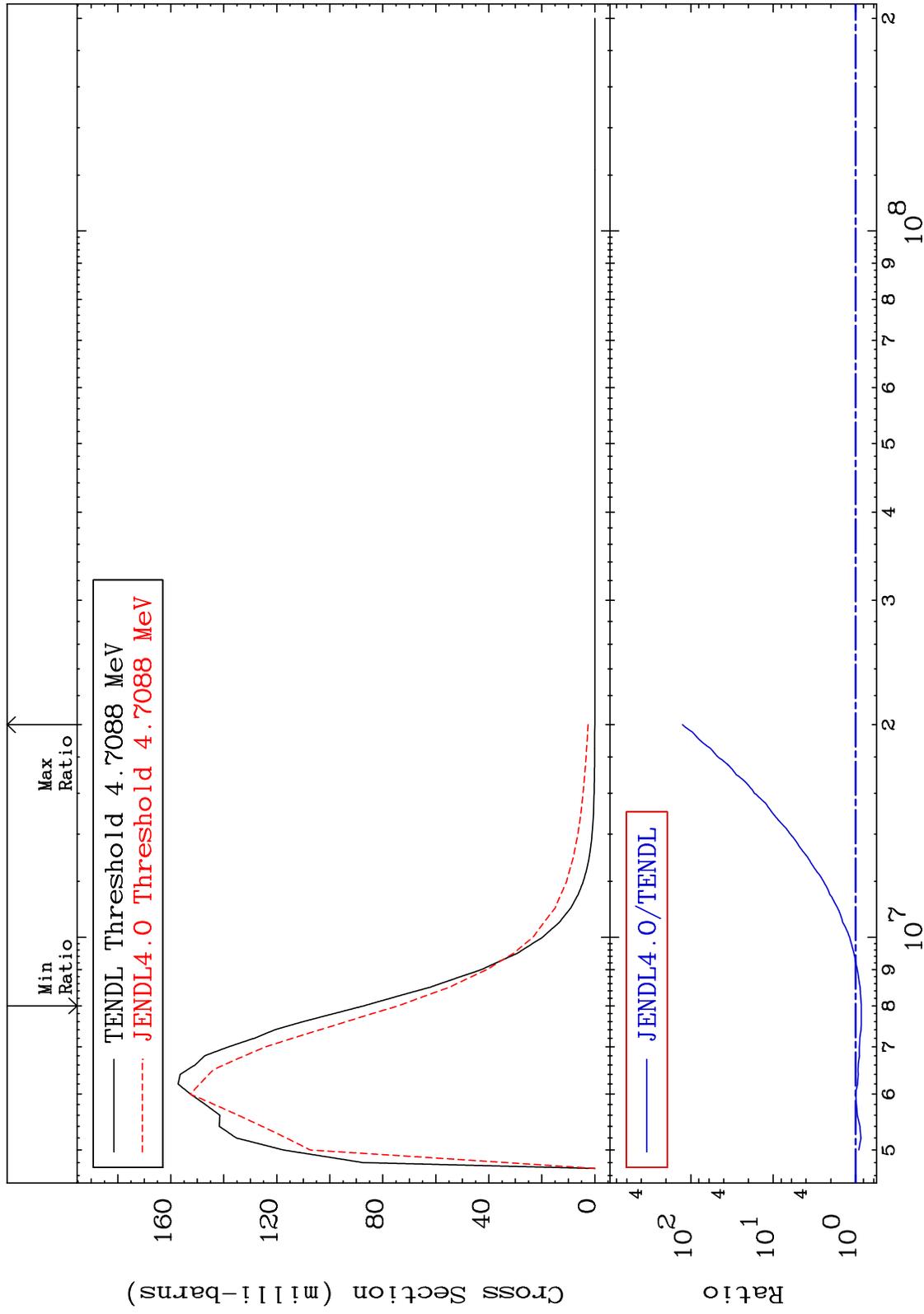
MAT 2049 MT= 54 (n,n') Level Cross Section -51.60 To -7.504% 20-Ca-48



MAT 2049

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

20-Ca-48
-14.90 To 9999. %

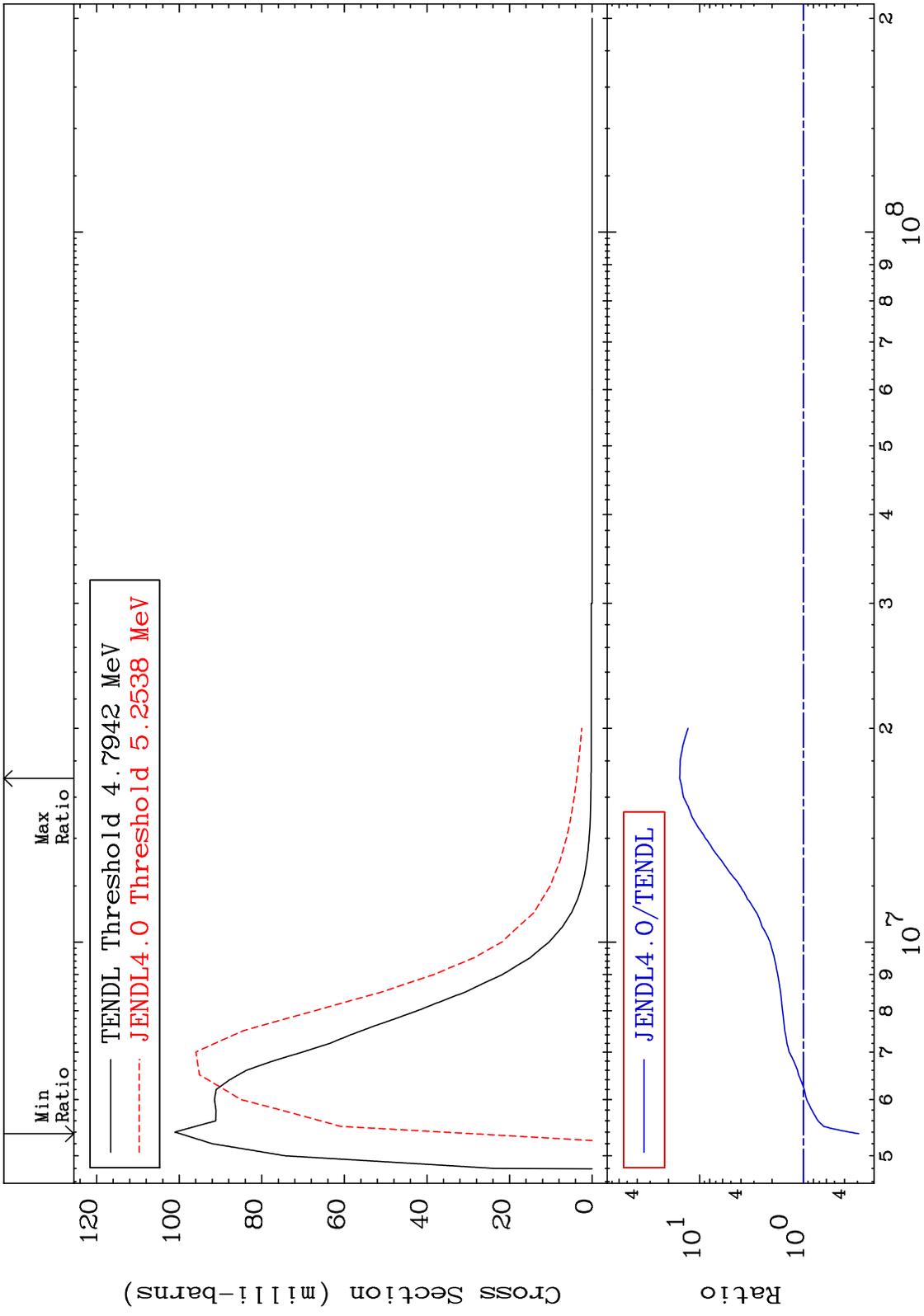


12

Incident Energy (eV)

20-Ca-48

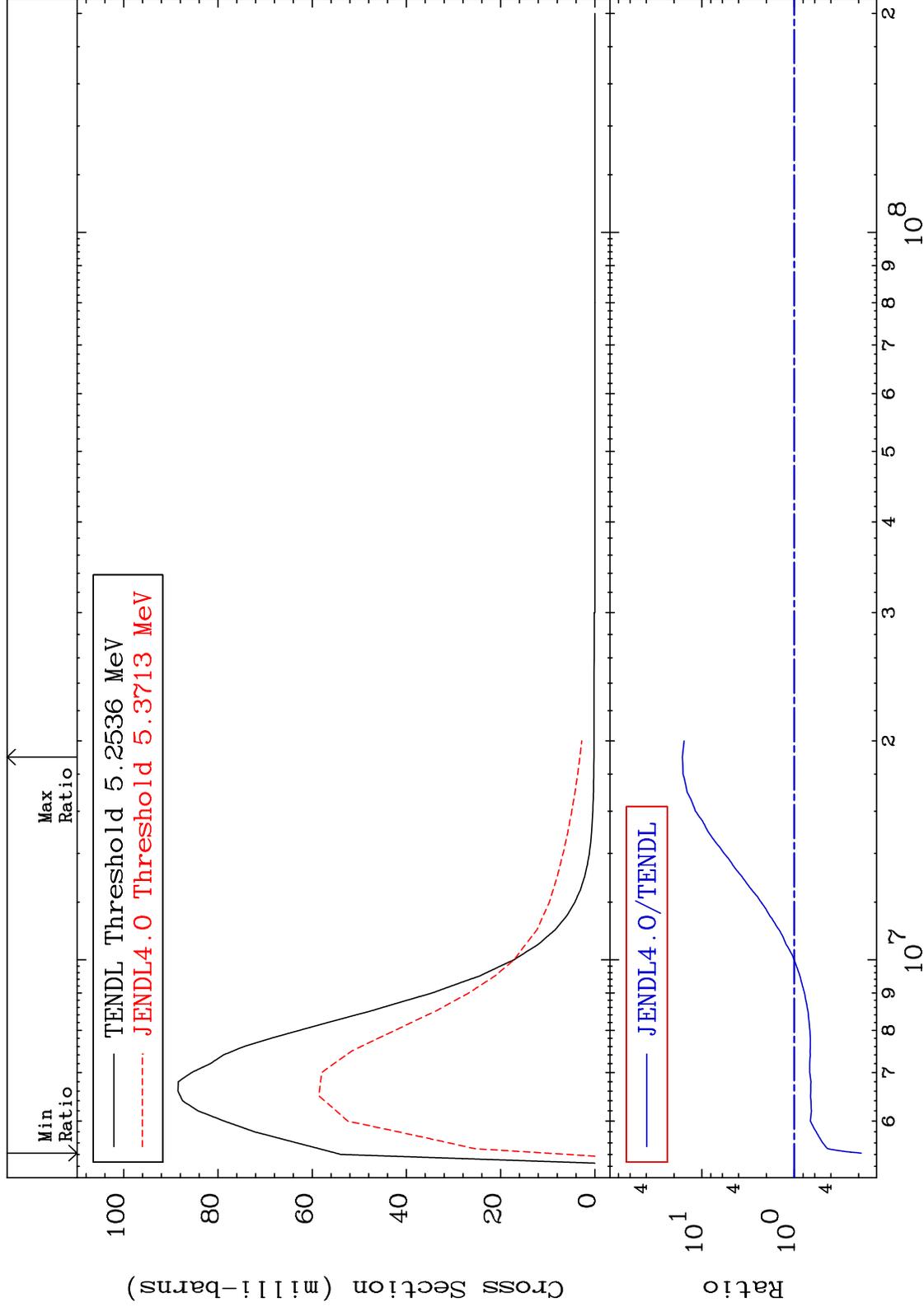
MAT 2049 MT= 56 (n,n') Level Cross Section -70.87 To 1457. % 20-Ca-48



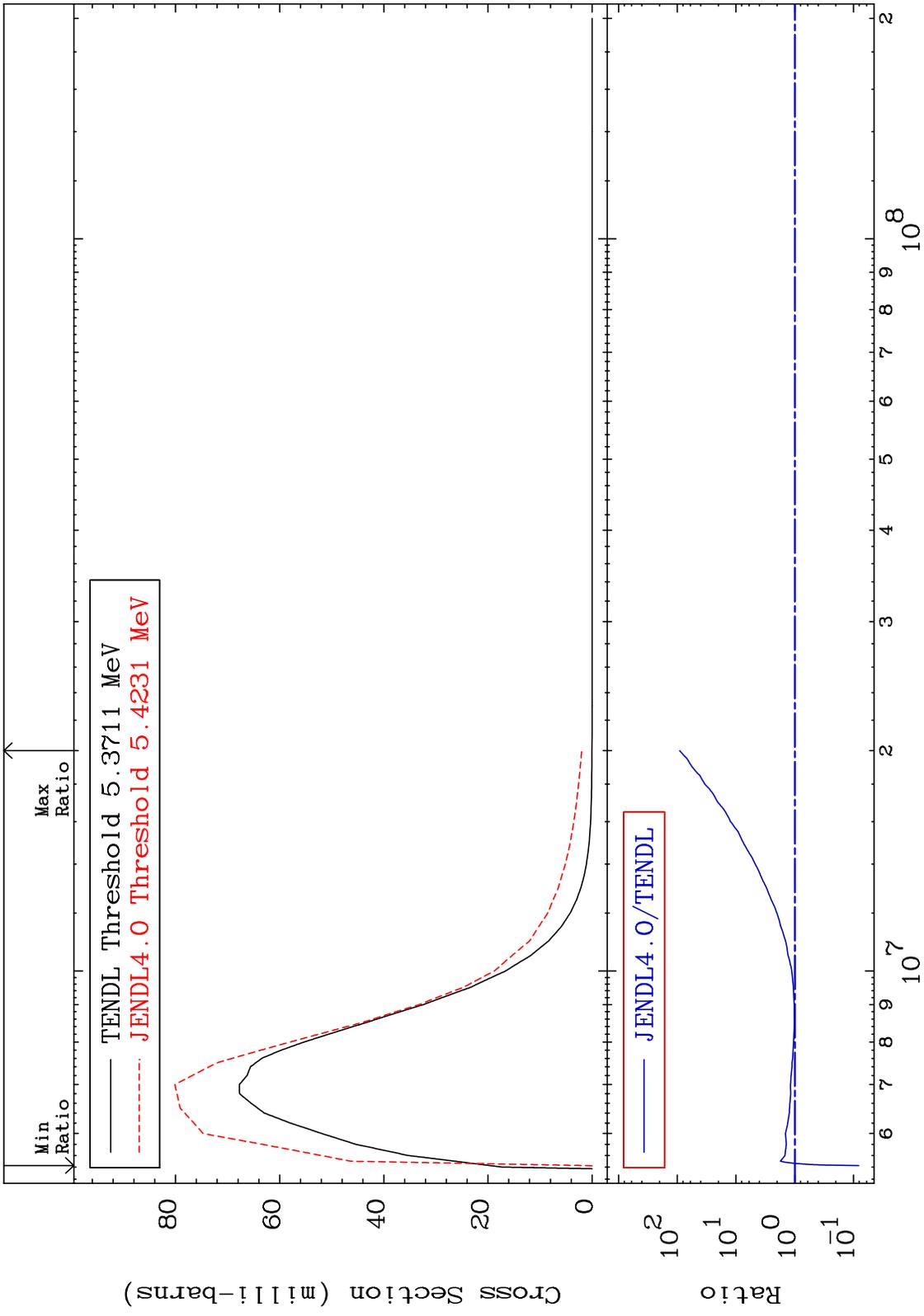
MAT 2049

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

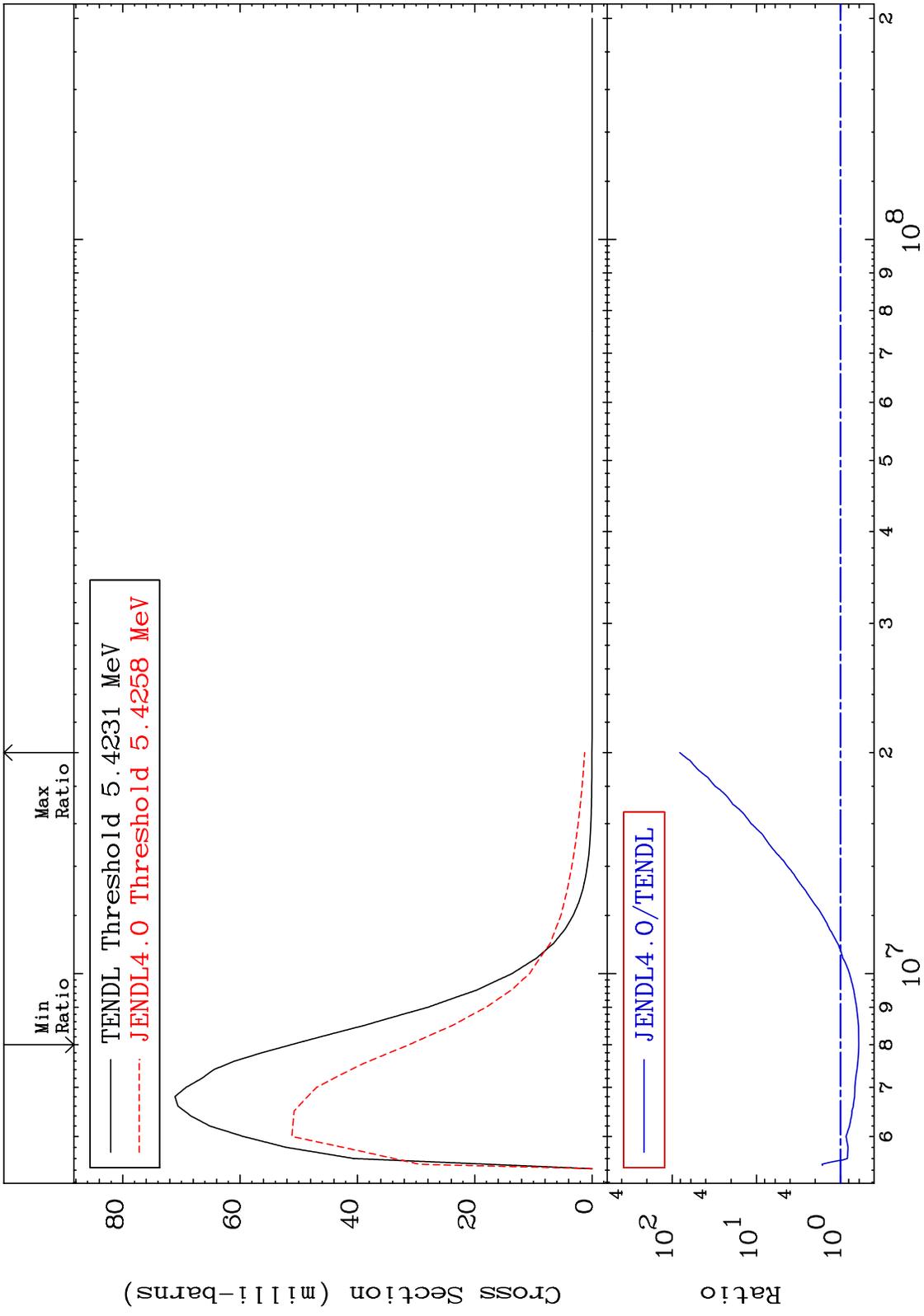
20-Ca-48
-81.29 To 1524. %



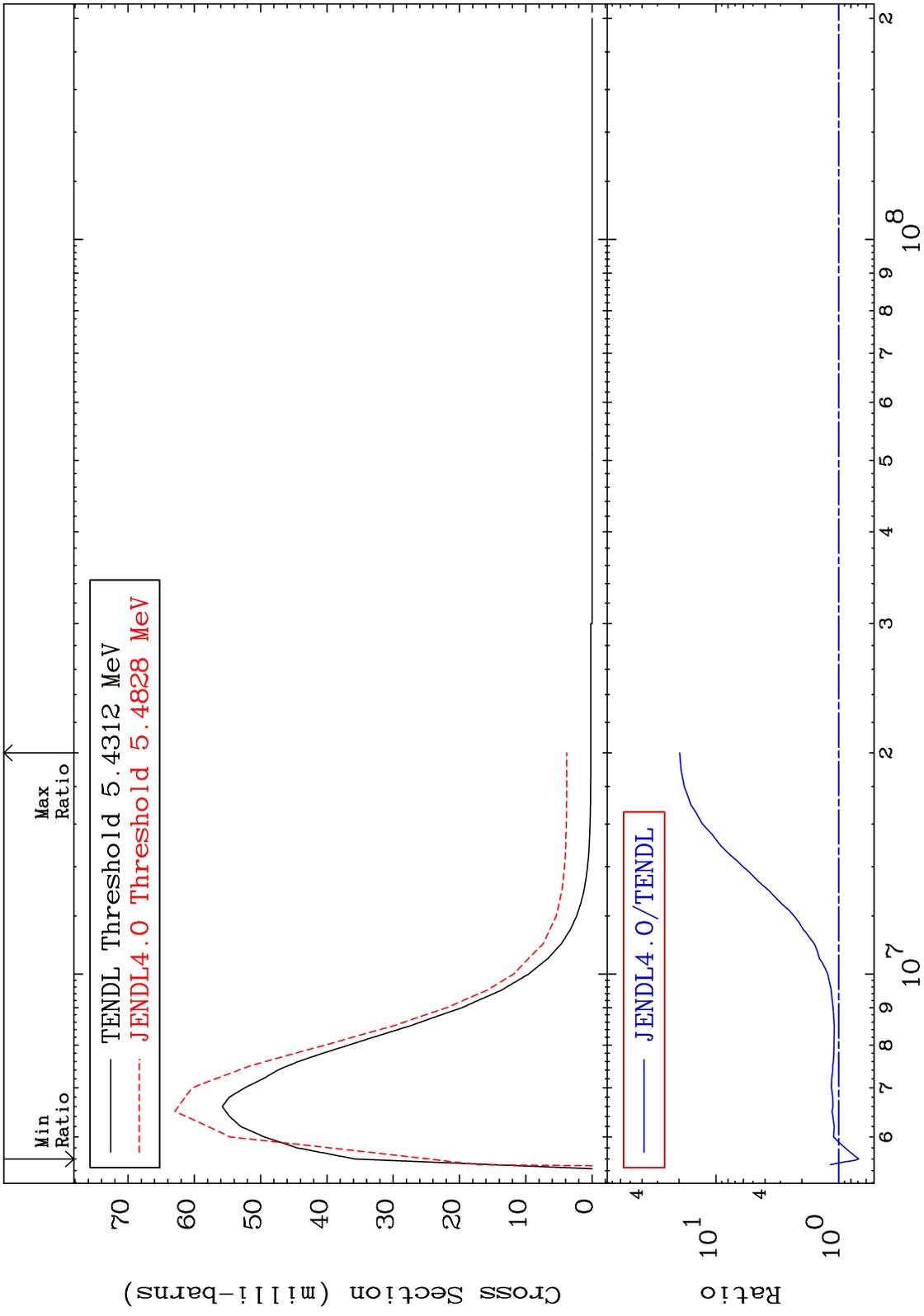
MAT 2049 MT= 58 (n,n') Level Cross Section -91.86 To 8979. % 20-Ca-48



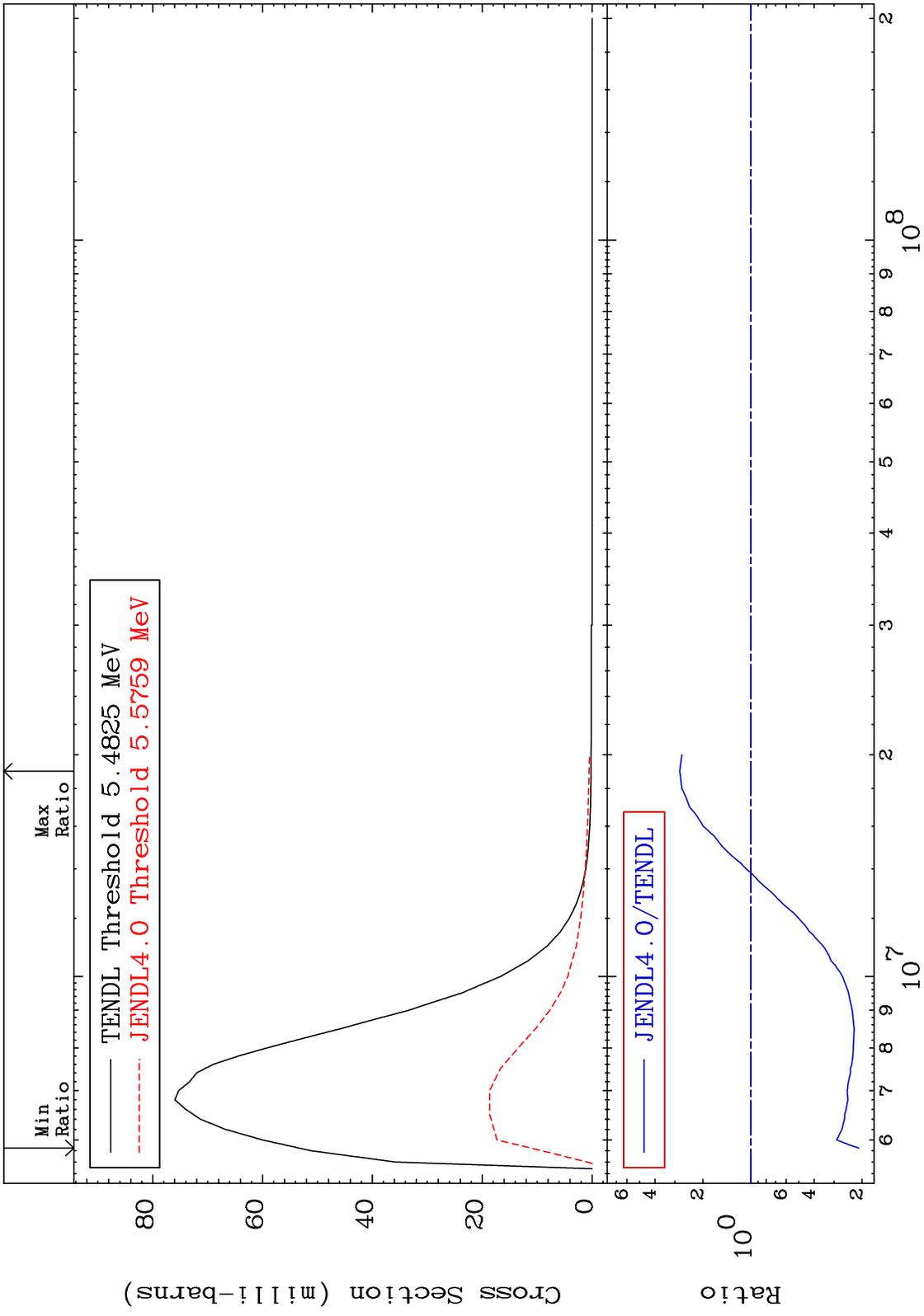
MAT 2049 MT= 59 (n,n') Level Cross Section -39.21 To 8051. % 20-Ca-48



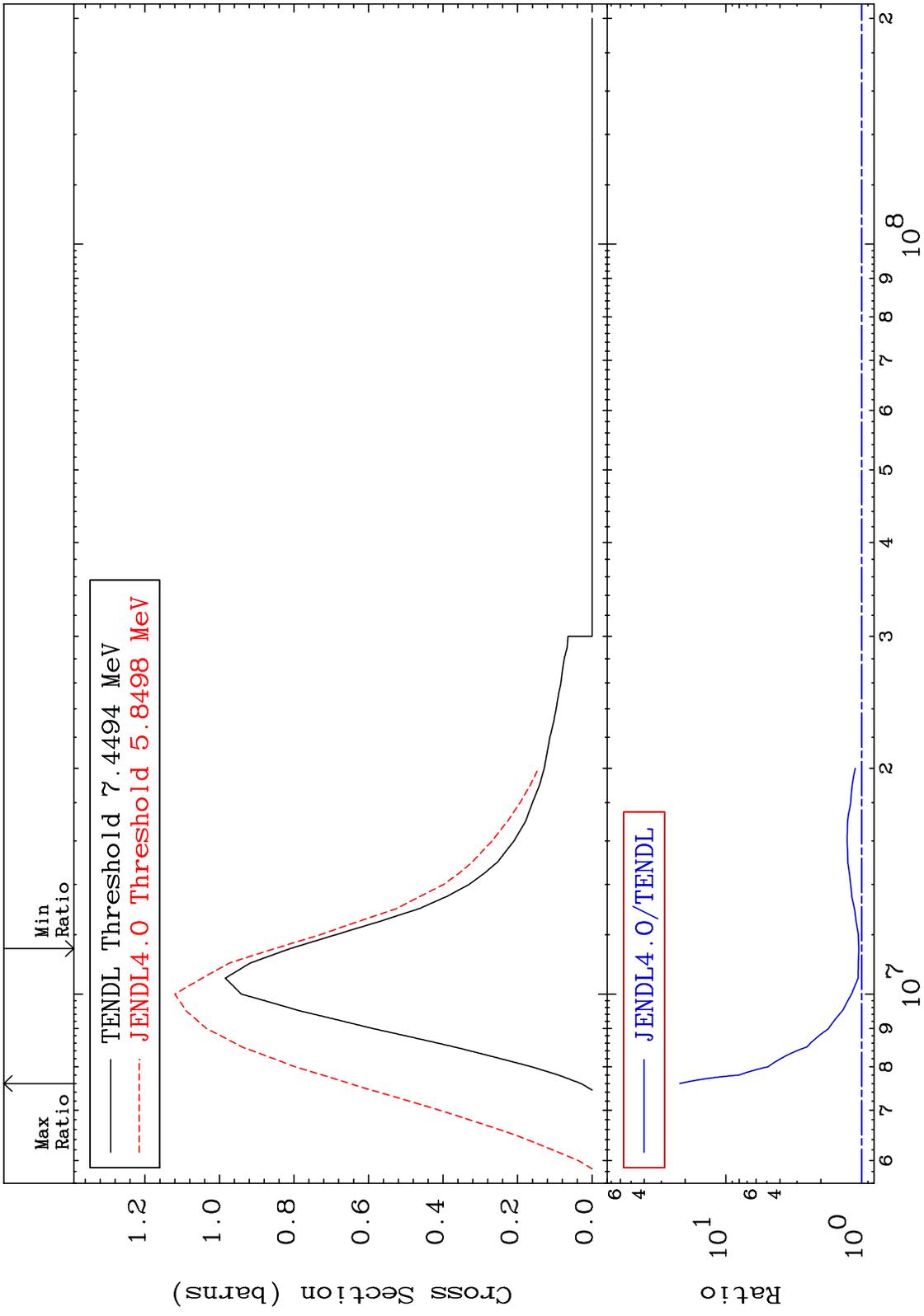
MAT 2049 MT= 60 (n,n') Level Cross Section -31.13 To 1876. % 20-Ca-48



MAT 2049 MT= 61 (n,n') Level Cross Section -79.03 To 179.7 % 20-Ca-48



MAT 2049 (n,n') Continuum Cross Section 20-Ca-48 To 2090. %



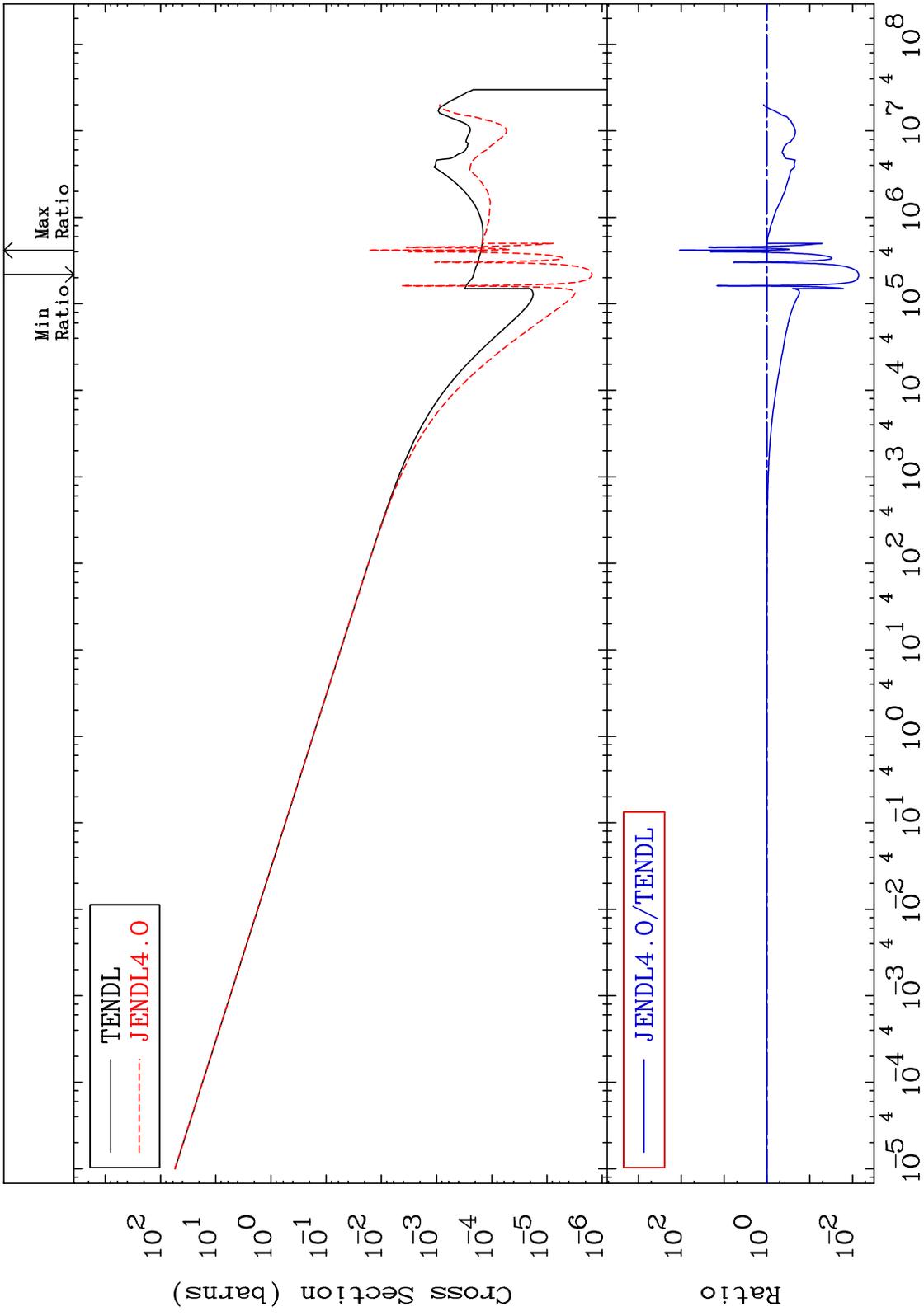
MAT 2049

(n, γ)

20-Ca-48

Cross Section

-99.29 To 9999. %

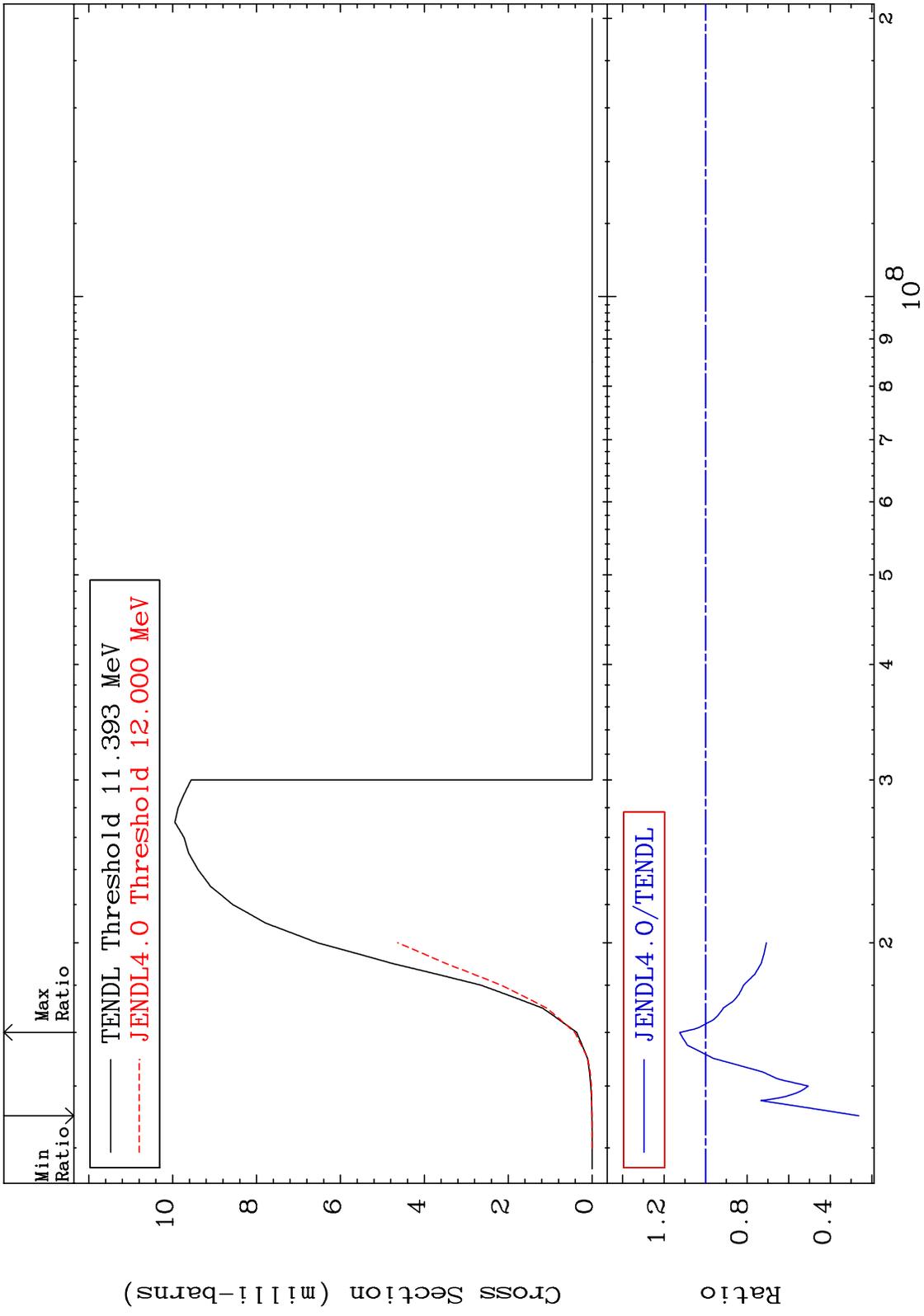


20

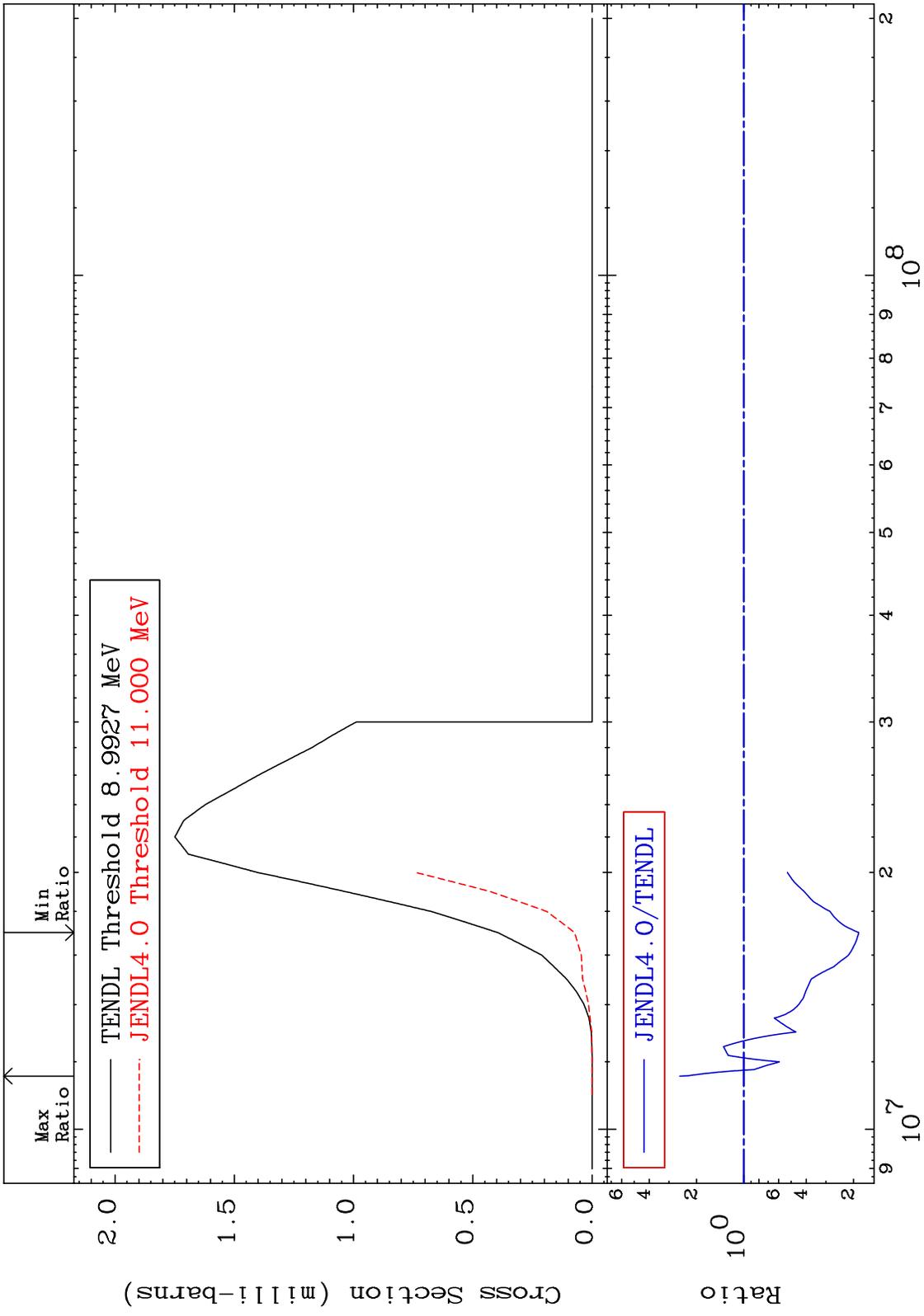
Incident Energy (eV)

20-Ca-48

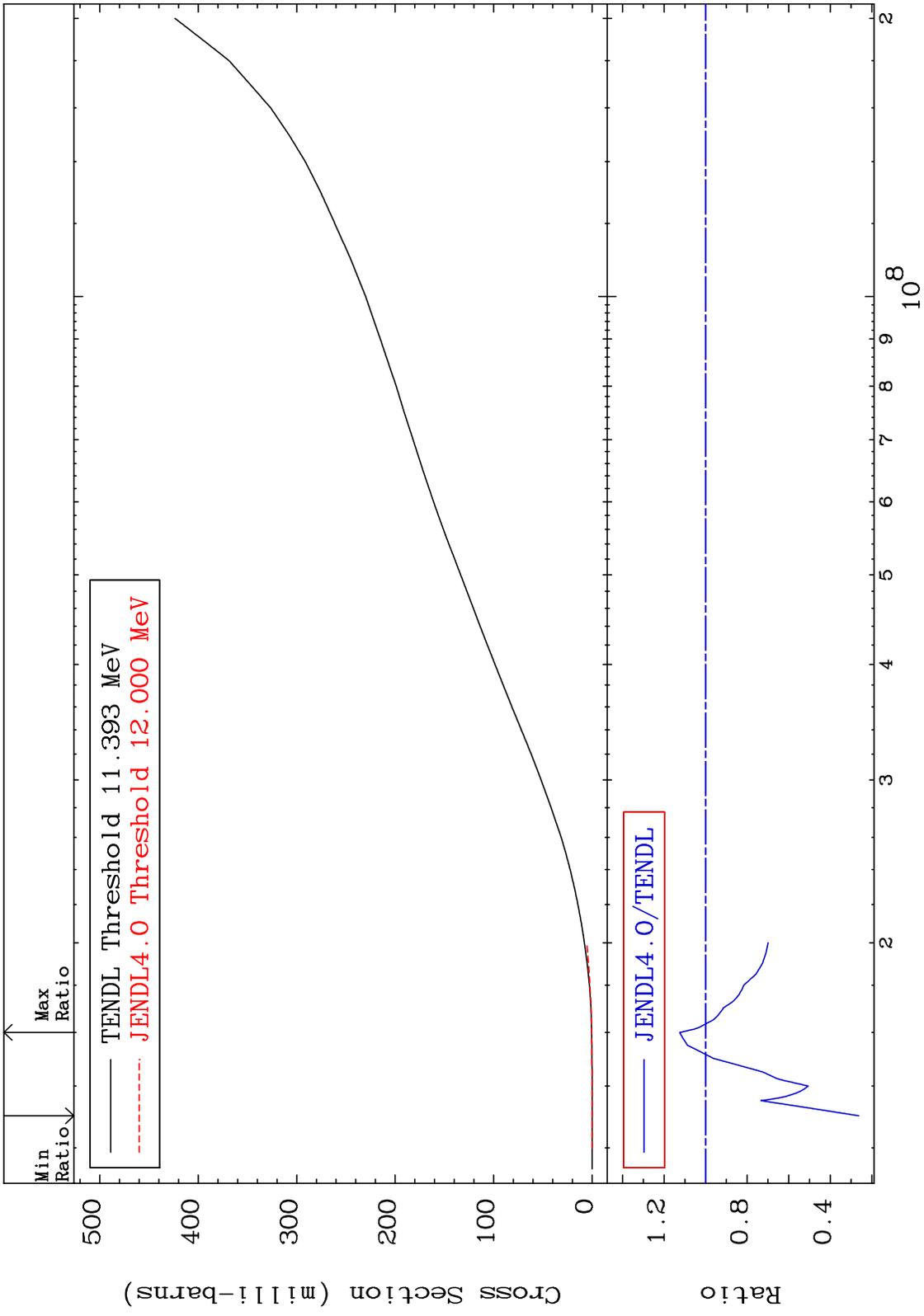
MAT 2049 (n,p) Cross Section 20-Ca-48
 -73.68 To 12.45 %



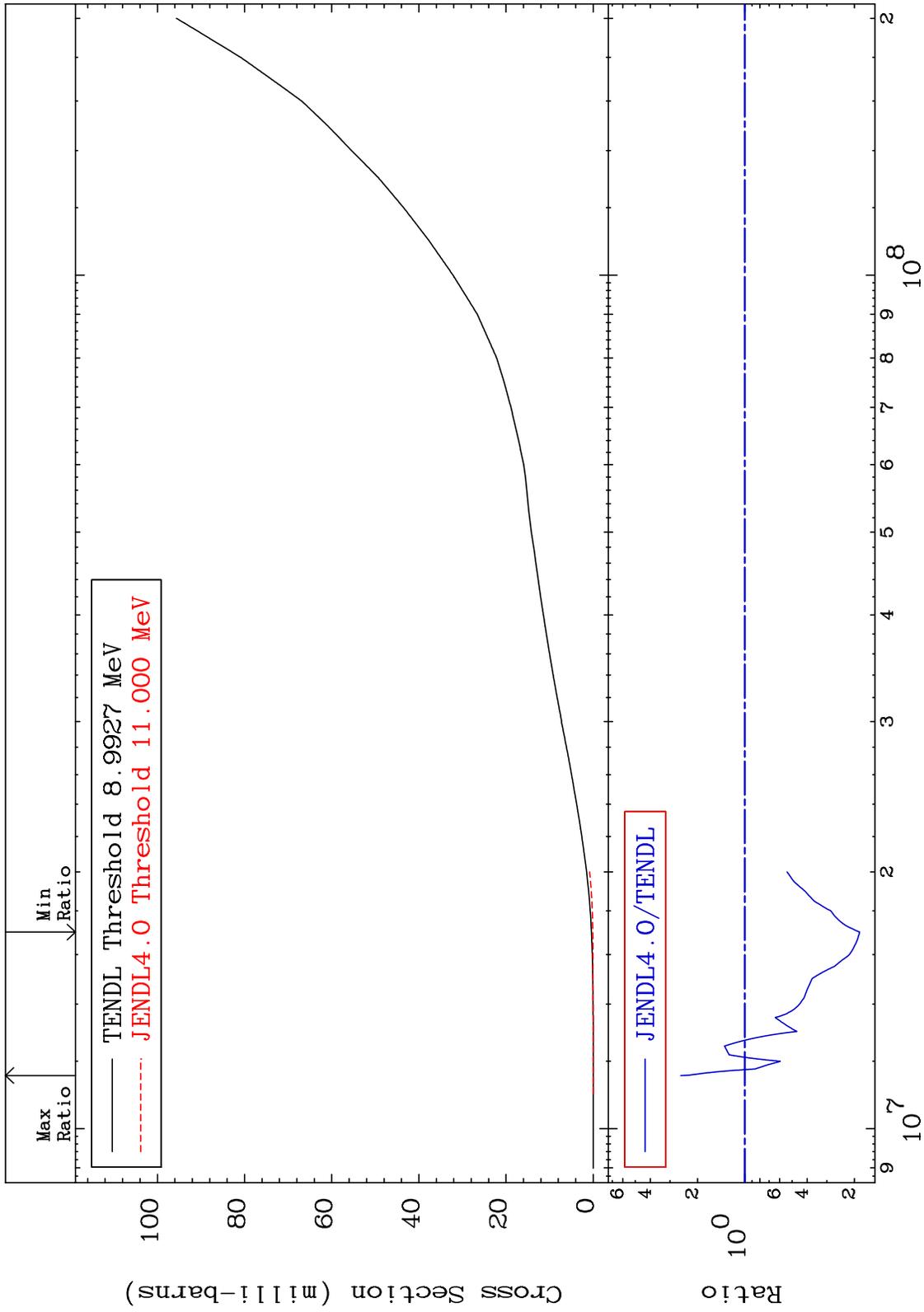
MAT 2049 (n,α) Cross Section 20-Ca-48 -81.50 To 155.8 %



22 20-Ca-48

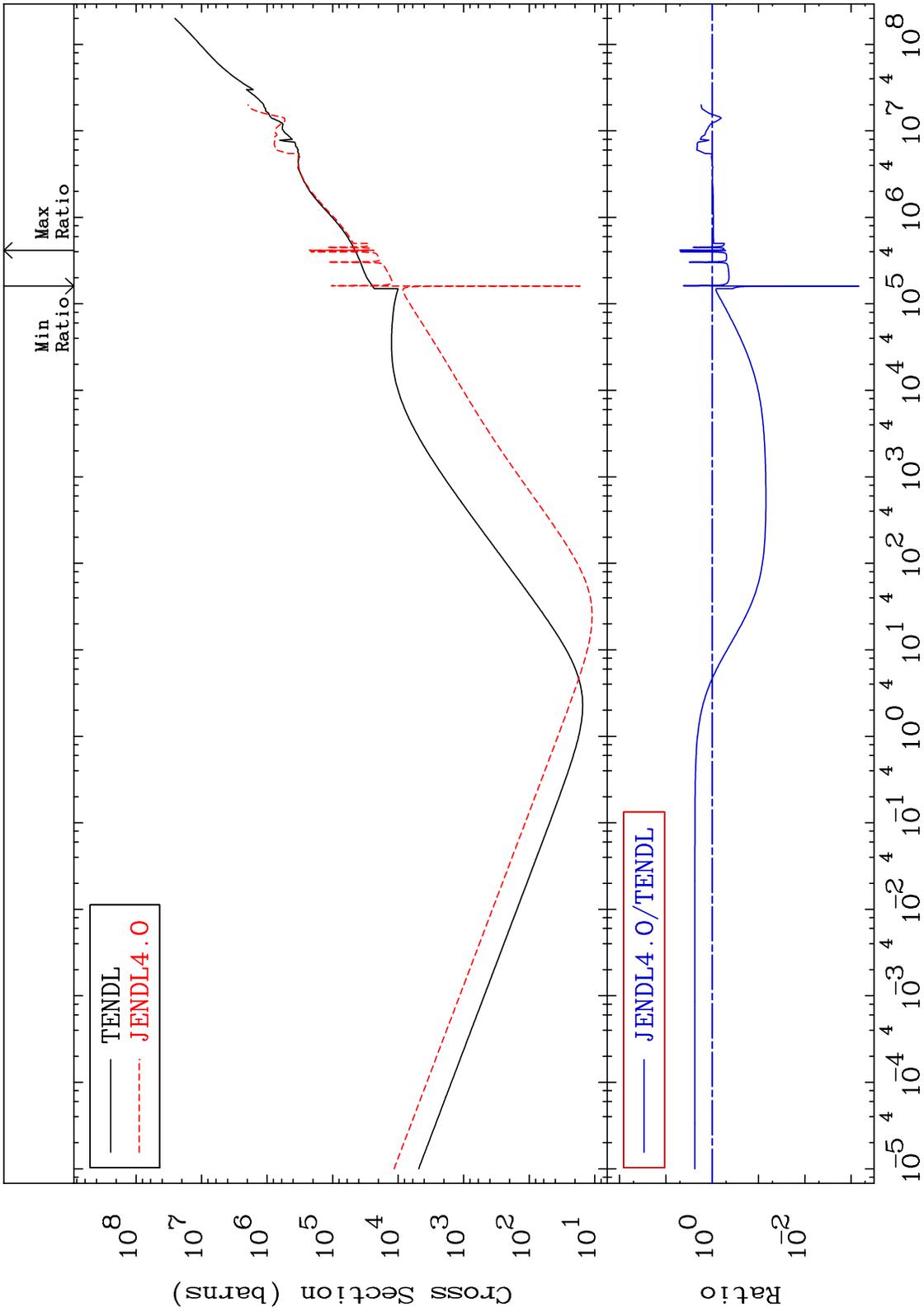


MAT 2049 He-4 Production Cross Section 20-Ca-48
 -81.50 To 155.8 %



24 20-Ca-48

MAT 2049 Kerma total (eV-barns) Cross Section 20-Ca-48
 -99.93 To 401.8 %

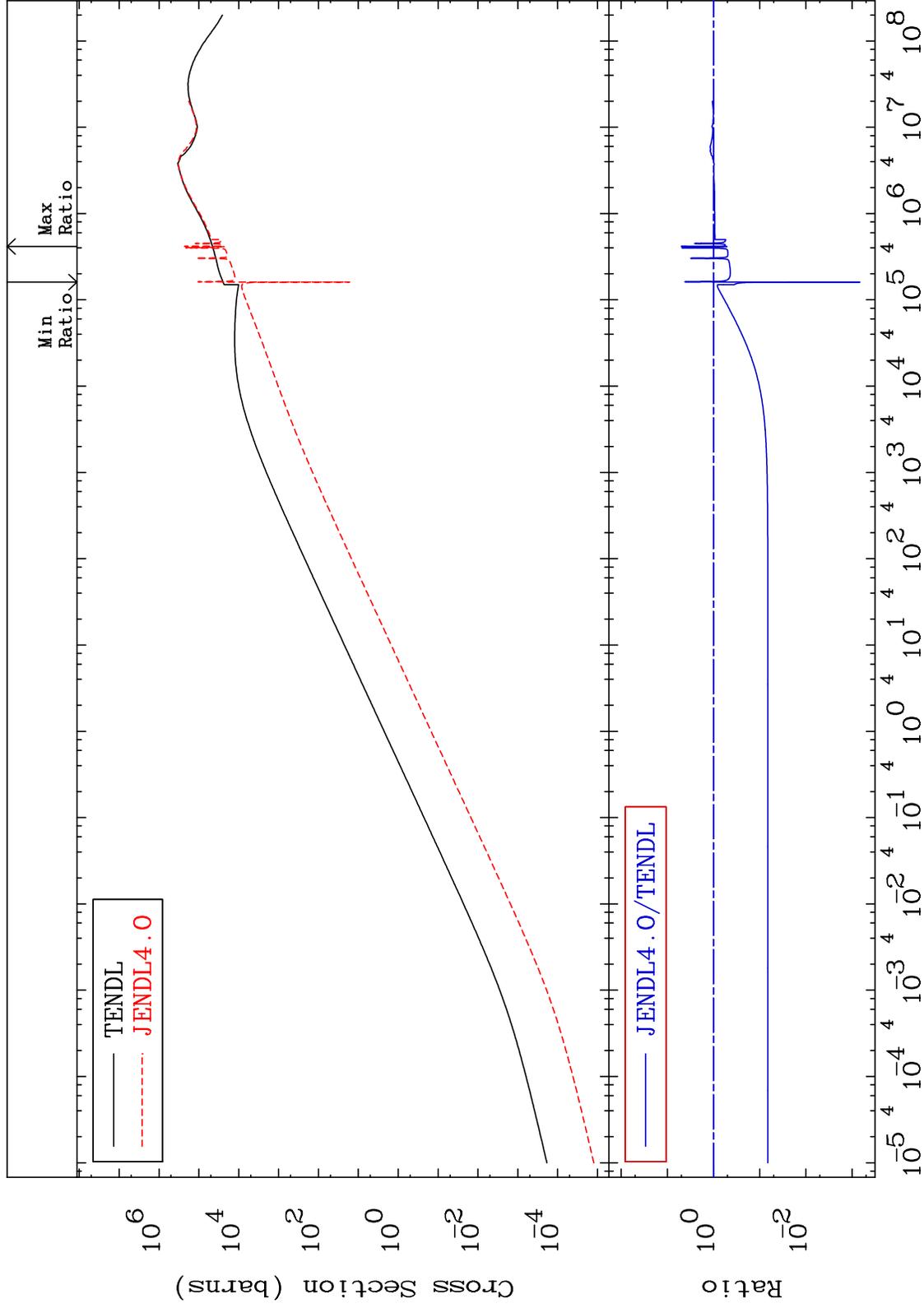


Incident Energy (eV) 20-Ca-48

MAT 2049

Kerma elastic
Cross Section

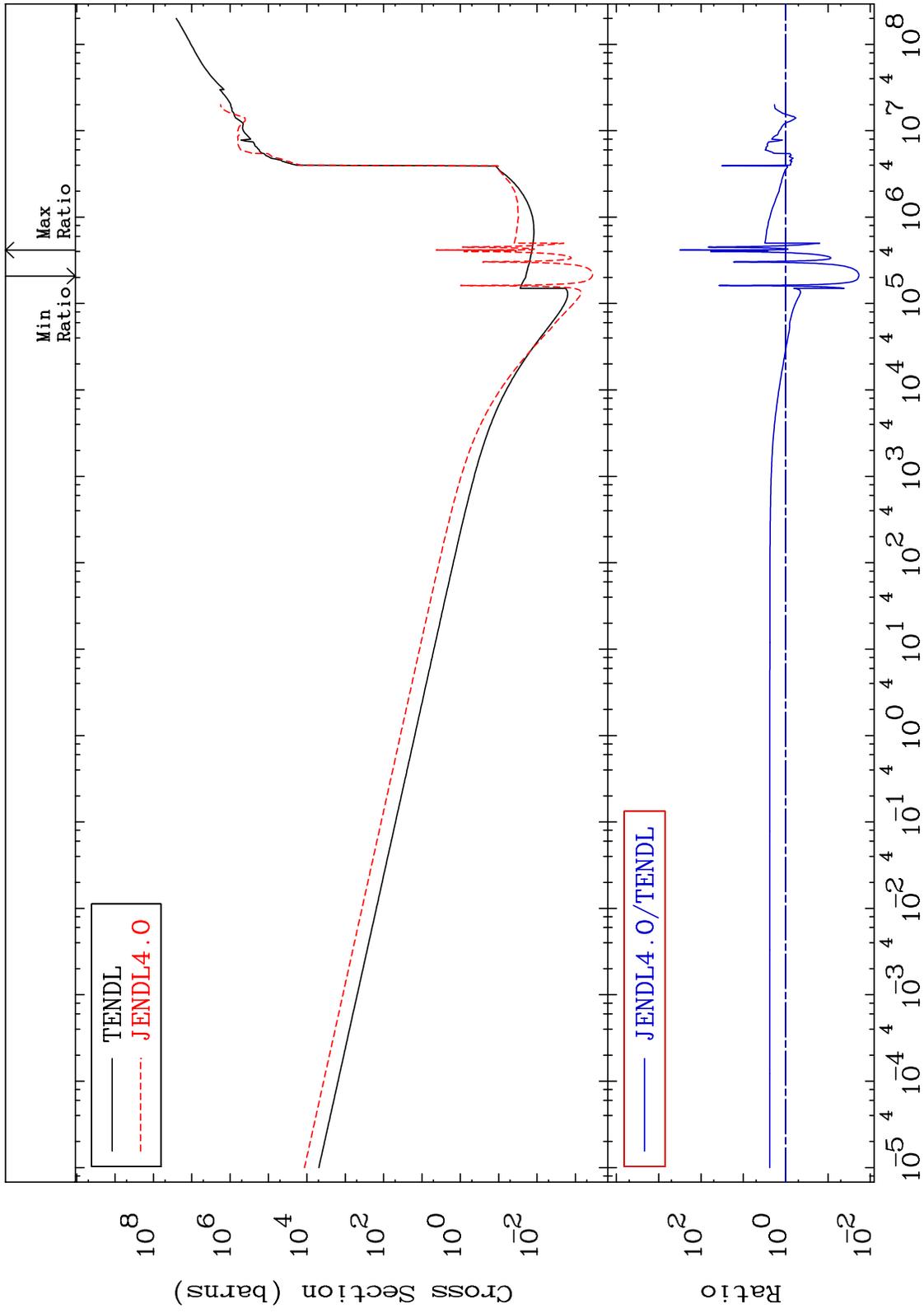
20-Ca-48
-99.93 To 401.8 %



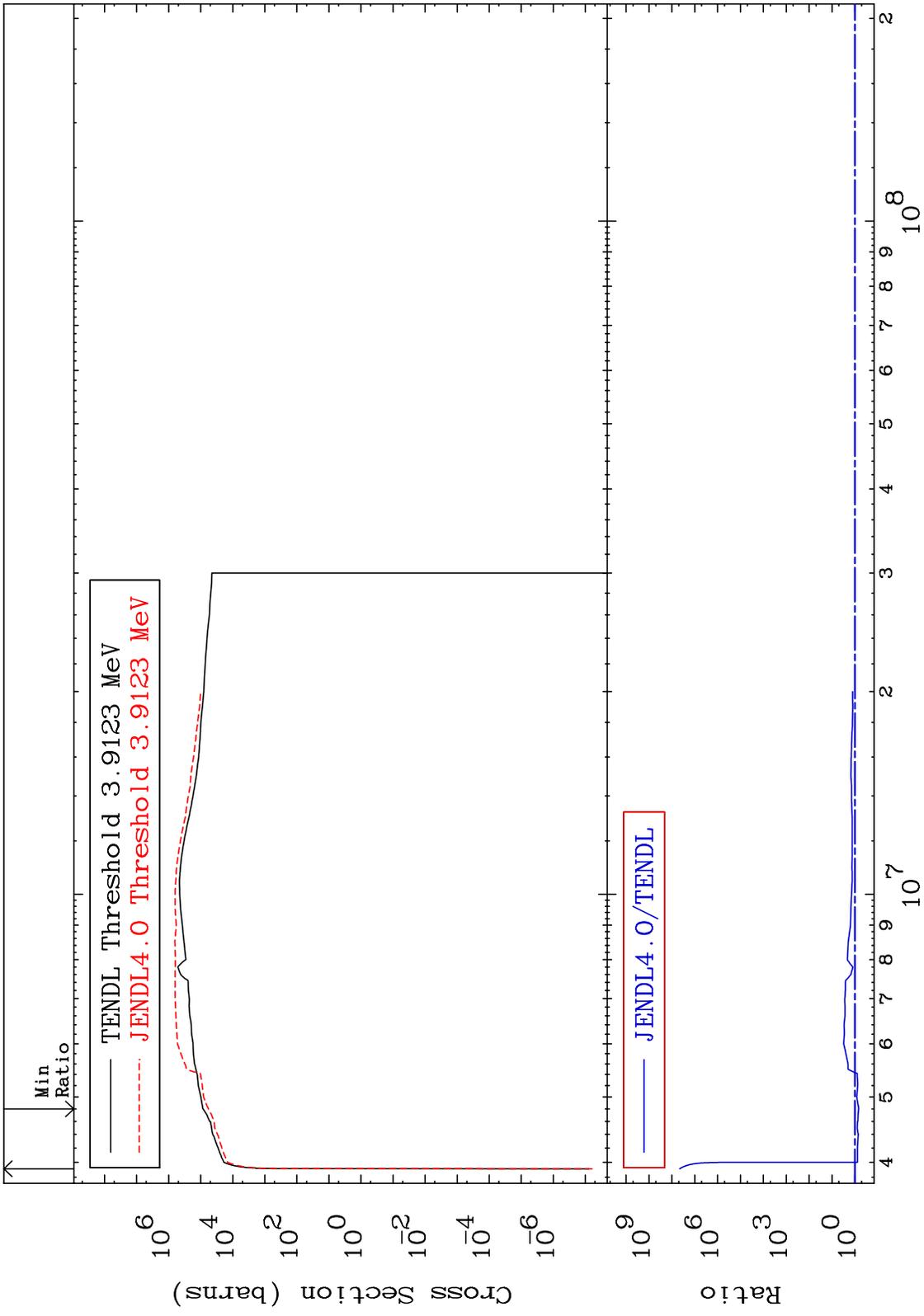
MAT 2049

Kerma non-elastic (all but mt2)
Cross Section

20-Ca-48
-98.14 To 9999. %



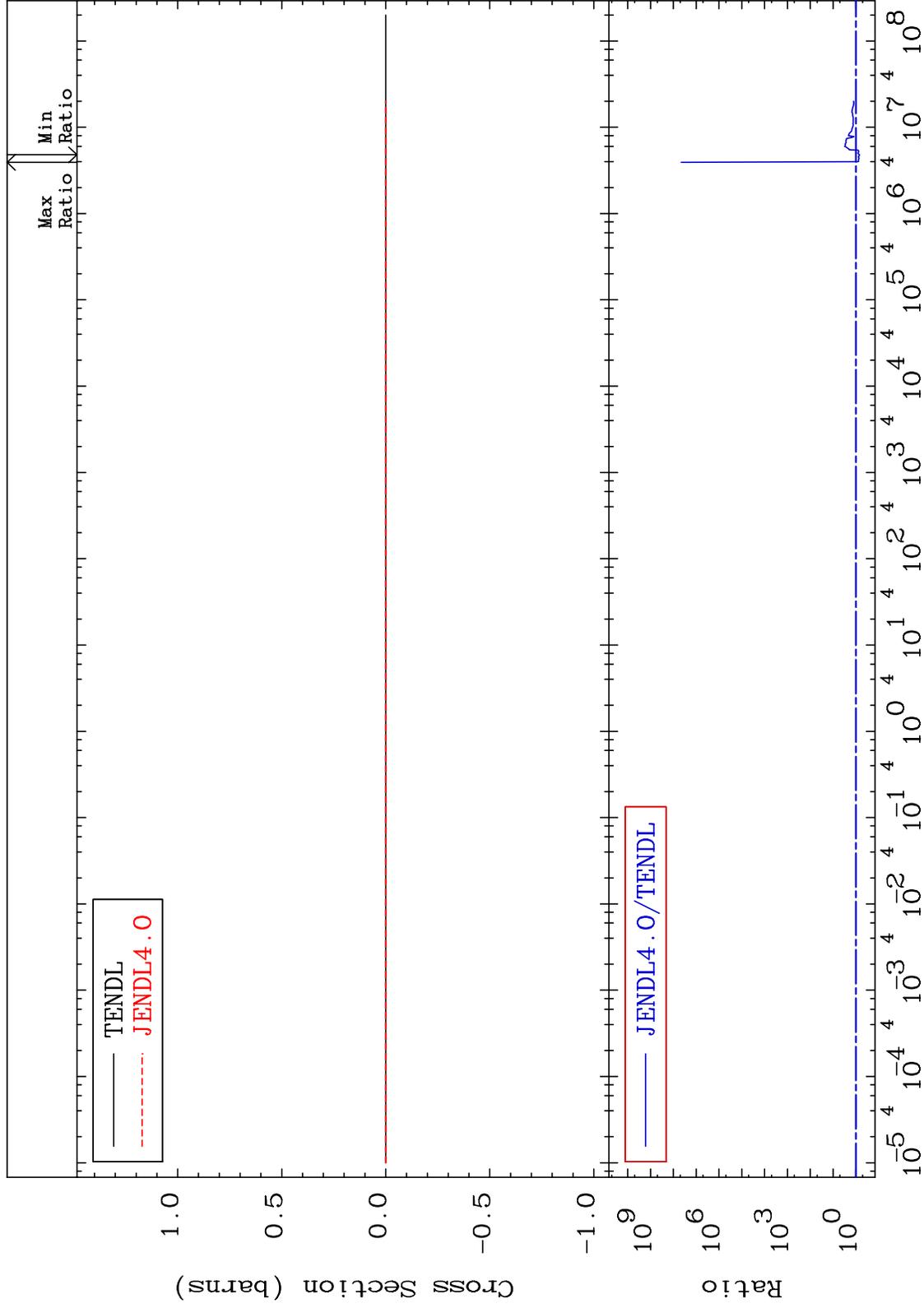
MAT 2049 Kerma inelastic (mt51-91) 20-Ca-48
 Cross Section -33.02 To 9999. %



MAT 2049

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

20-Ca-48
-33.02 To 9999. %



29

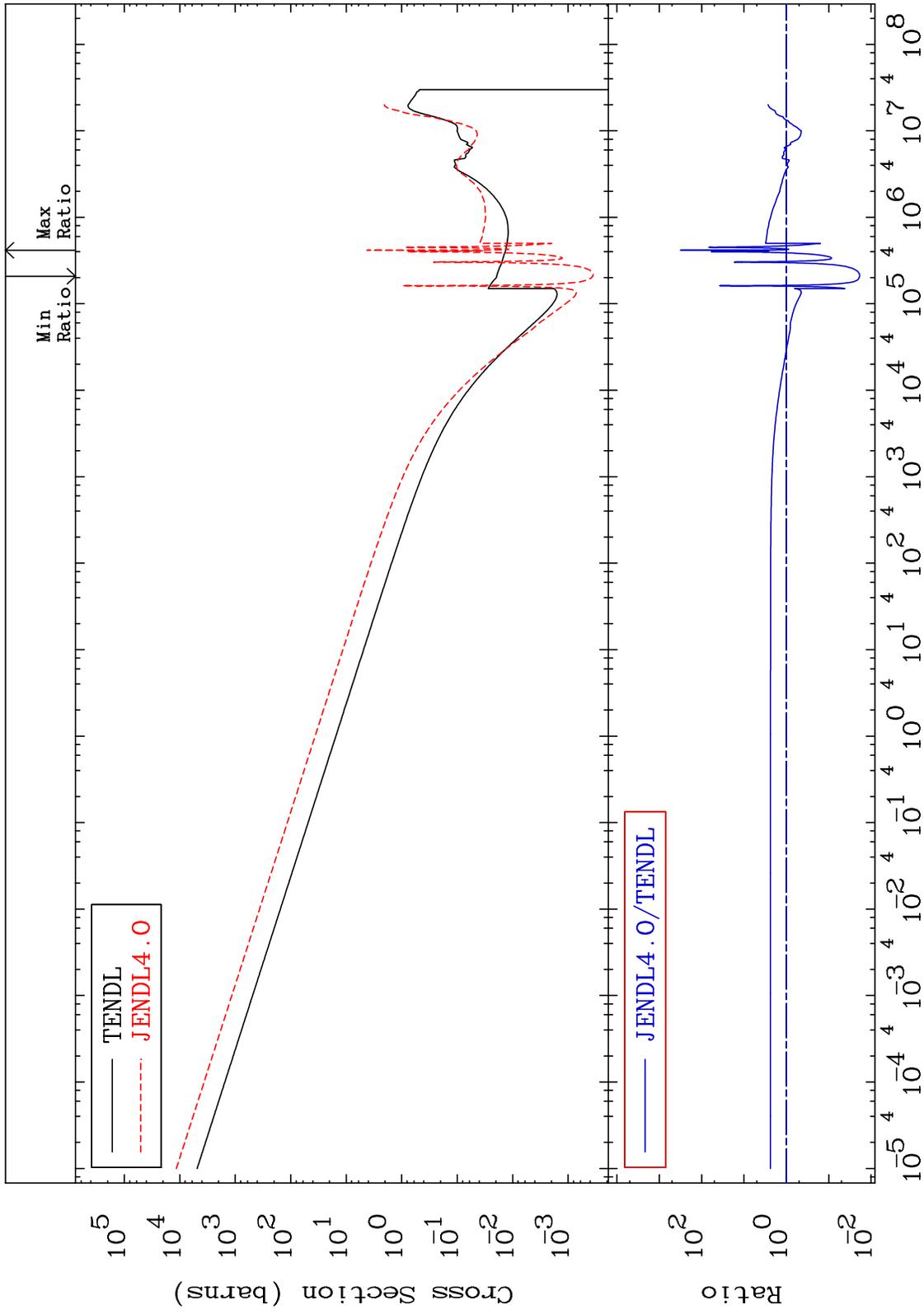
Incident Energy (eV)

20-Ca-48

MAT 2049

Kerma capture (mt102)
Cross Section

20-Ca-48
-98.14 To 9999. %



30

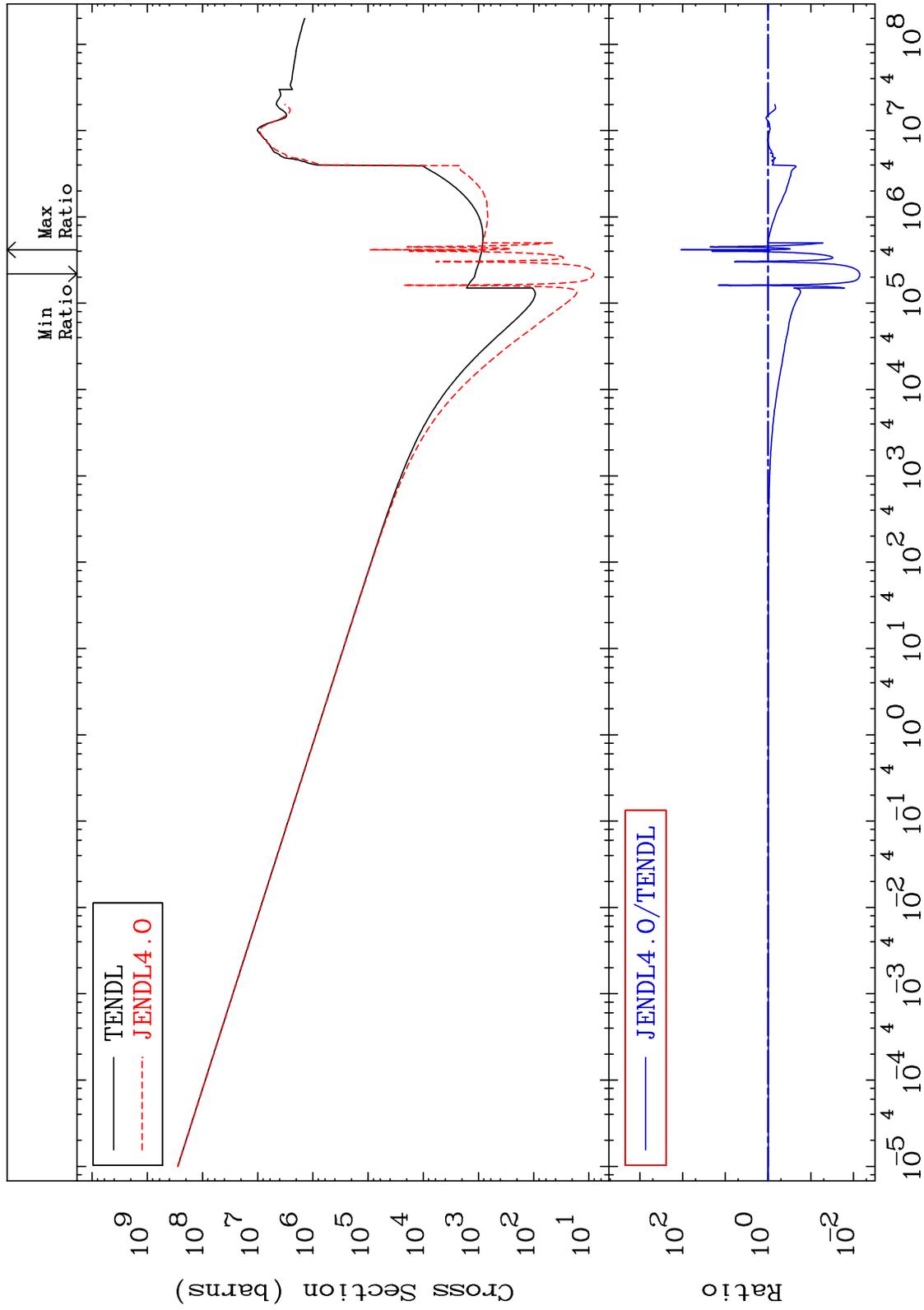
Incident Energy (eV)

20-Ca-48

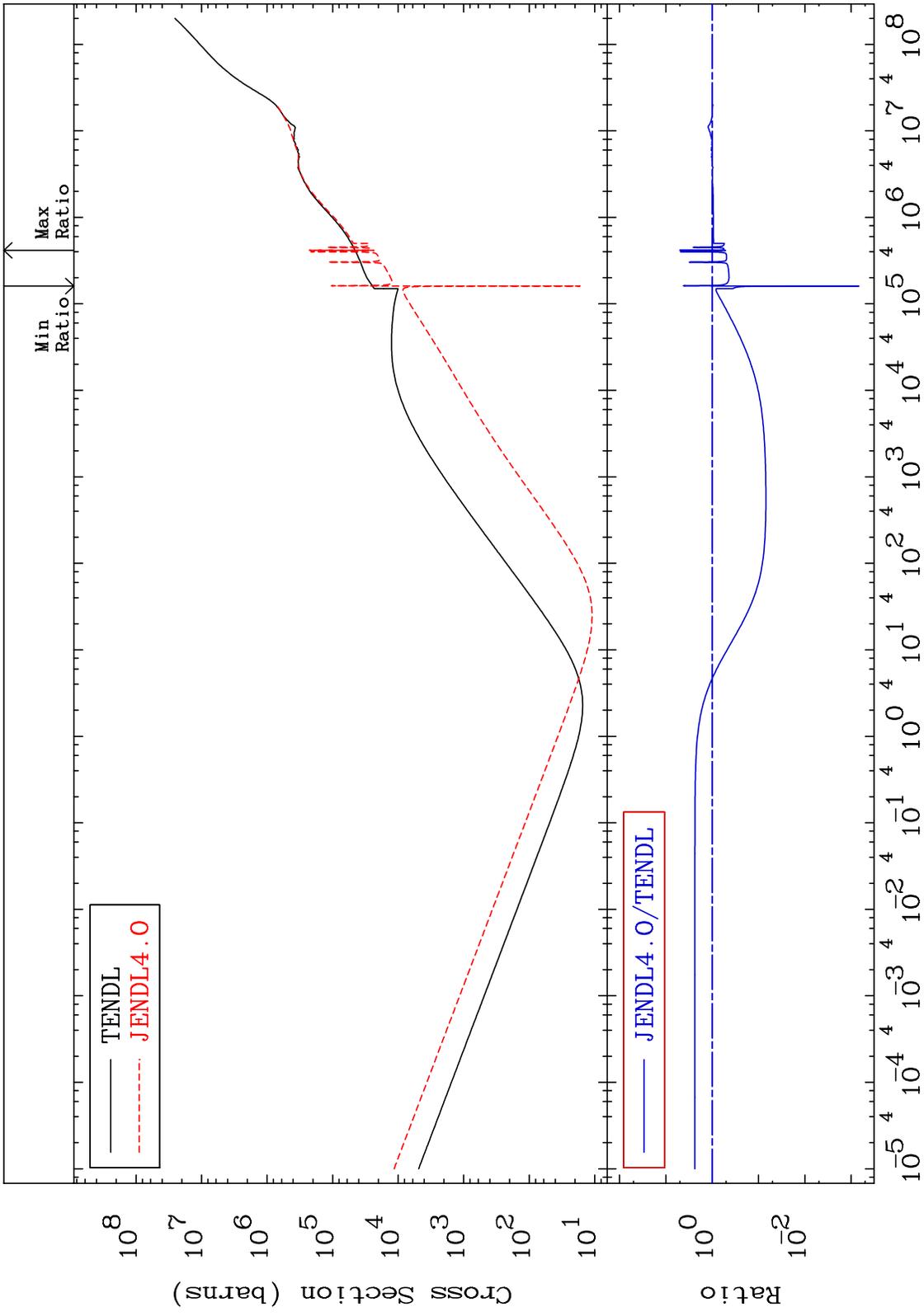
MAT 2049

Total photon (eV-barns)
Cross Section

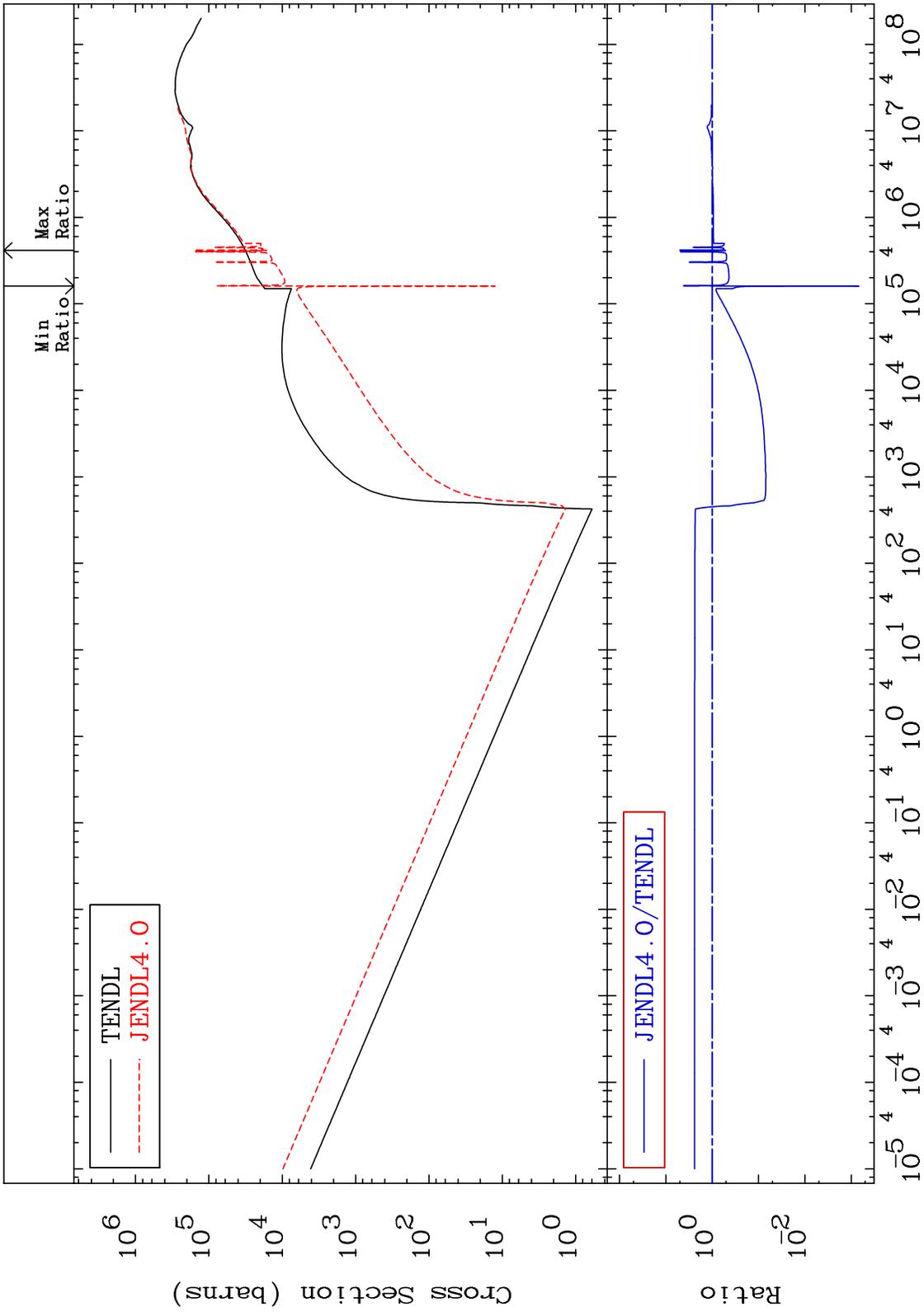
20-Ca-48
-99.29 To 9999. %



MAT 2049 Total kinematic kerma (high limit) Cross Section 20-Ca-48
 -99.93 To 401.8 %

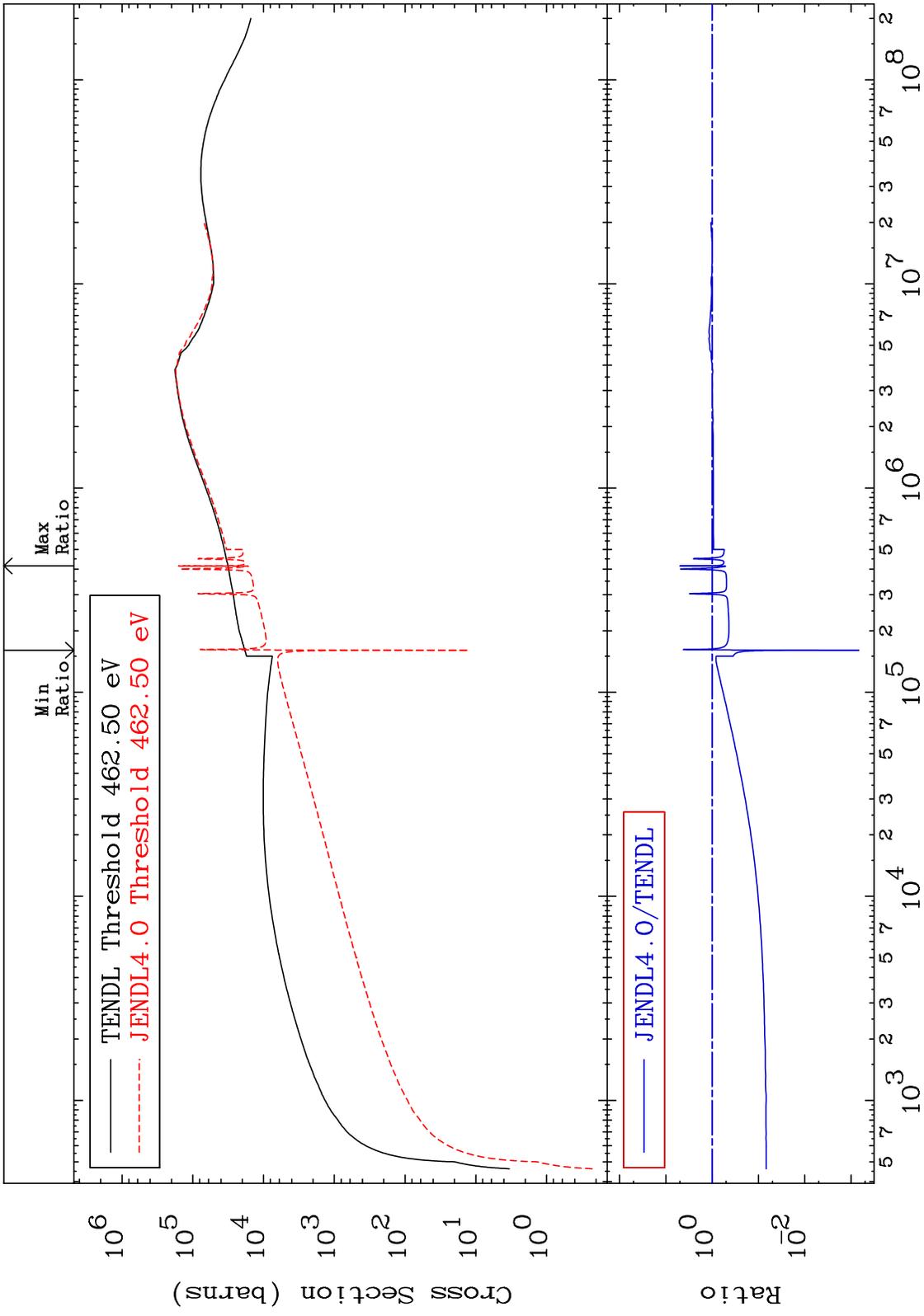


MAT 2049 Dpa total (eV-barns) 20-Ca-48
 Cross Section -99.93 To 401.9 %



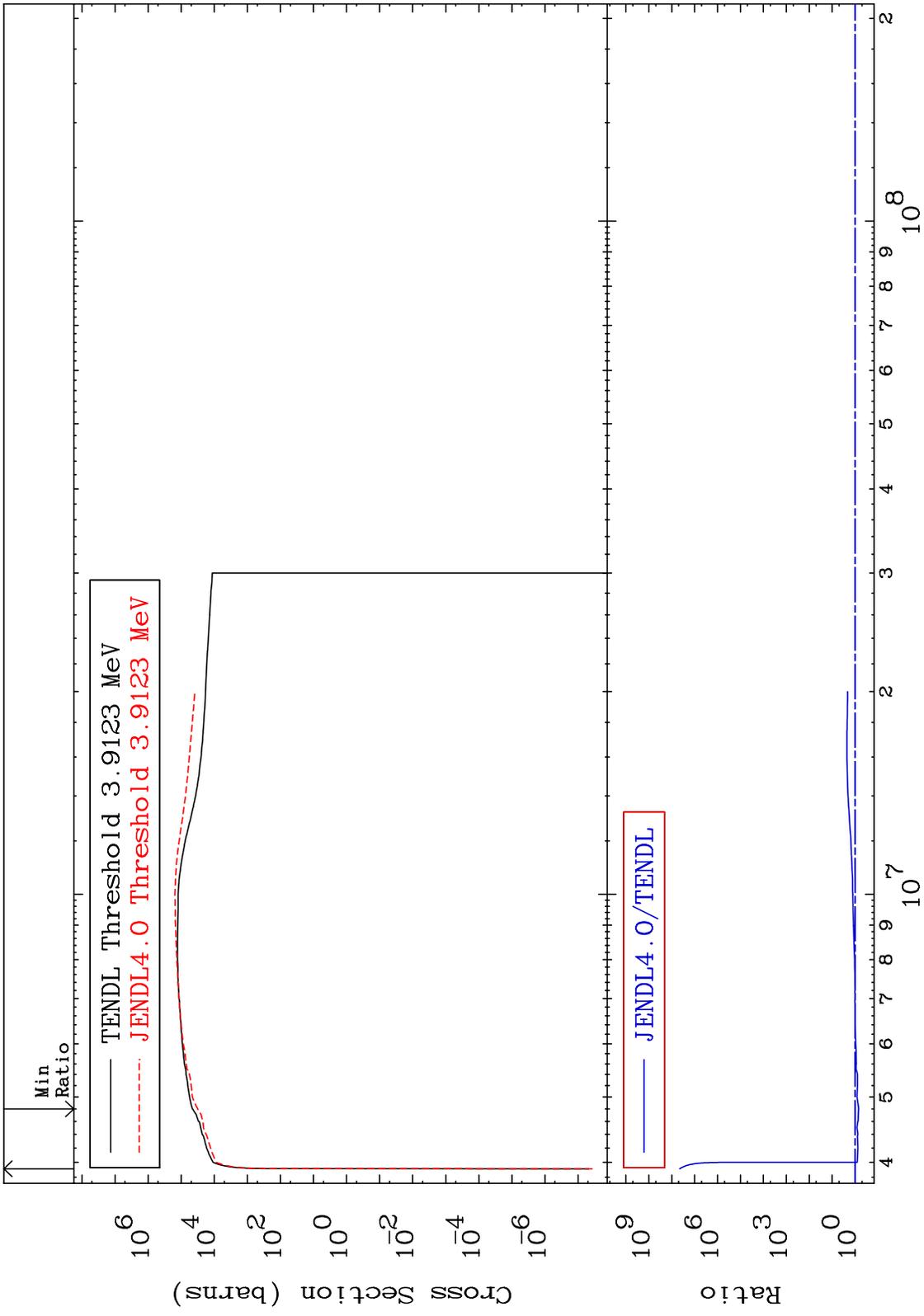
MAT 2049 20-Ca-48 -99.93 To 401.9 %

Dpa elastic (mt2)
Cross Section



34 Incident Energy (eV) 20-Ca-48

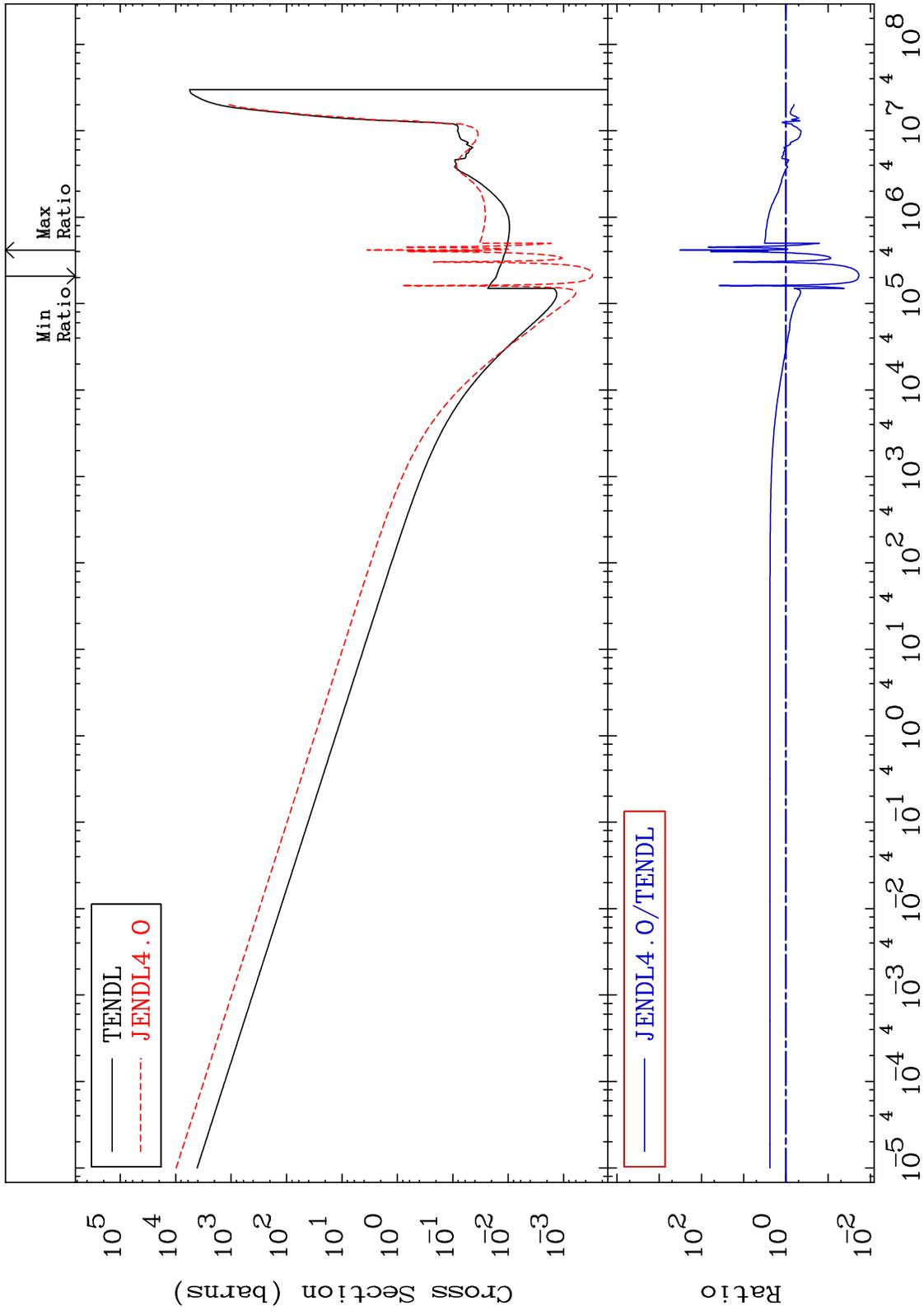
MAT 2049 Dpa inelastic (mt51-91) 20-Ca-48
 Cross Section -31.40 To 9999. %



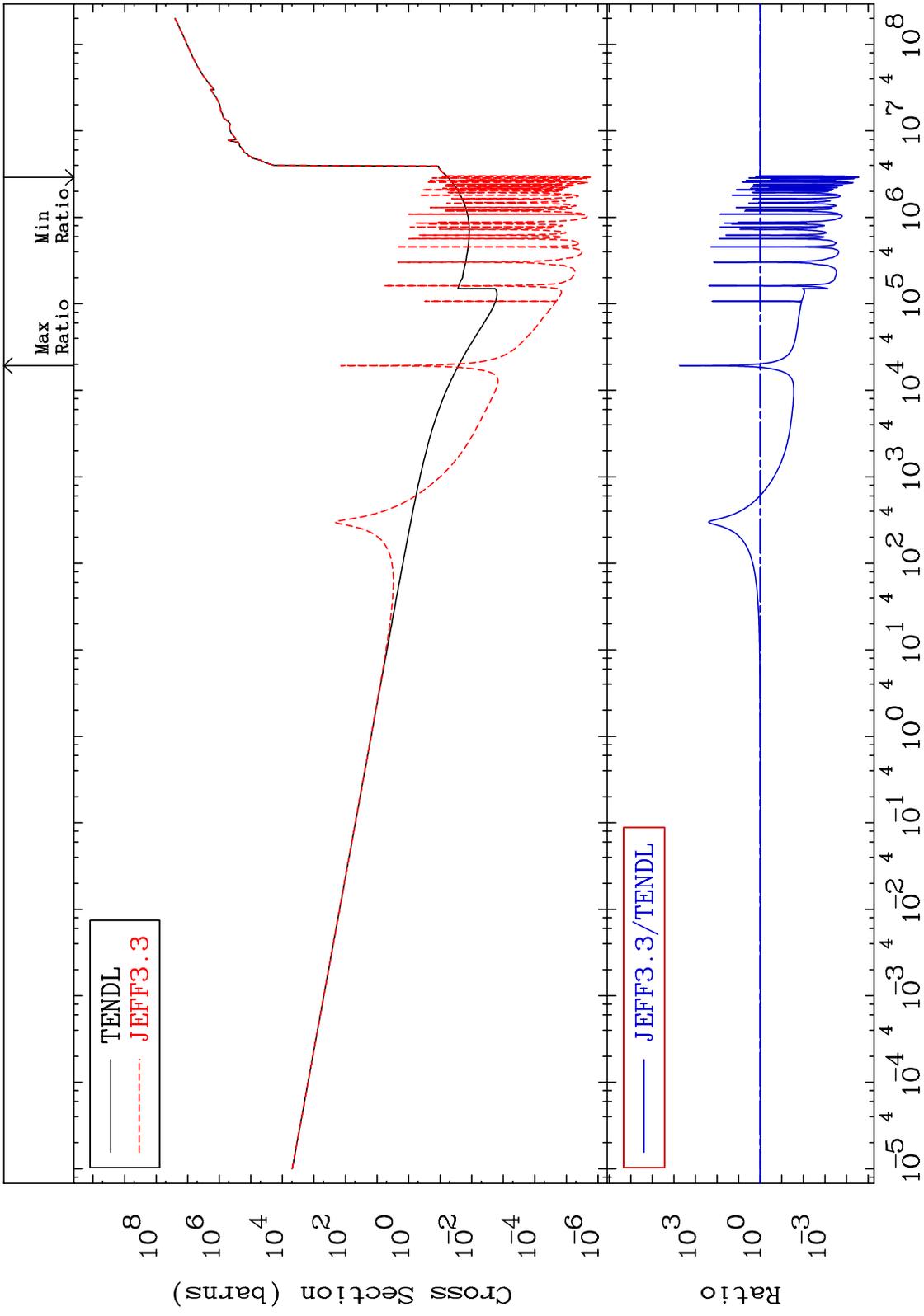
MAT 2049

Dpa disappearance (mt102 -120)
Cross Section

20-Ca-48
-98.13 To 9999. %



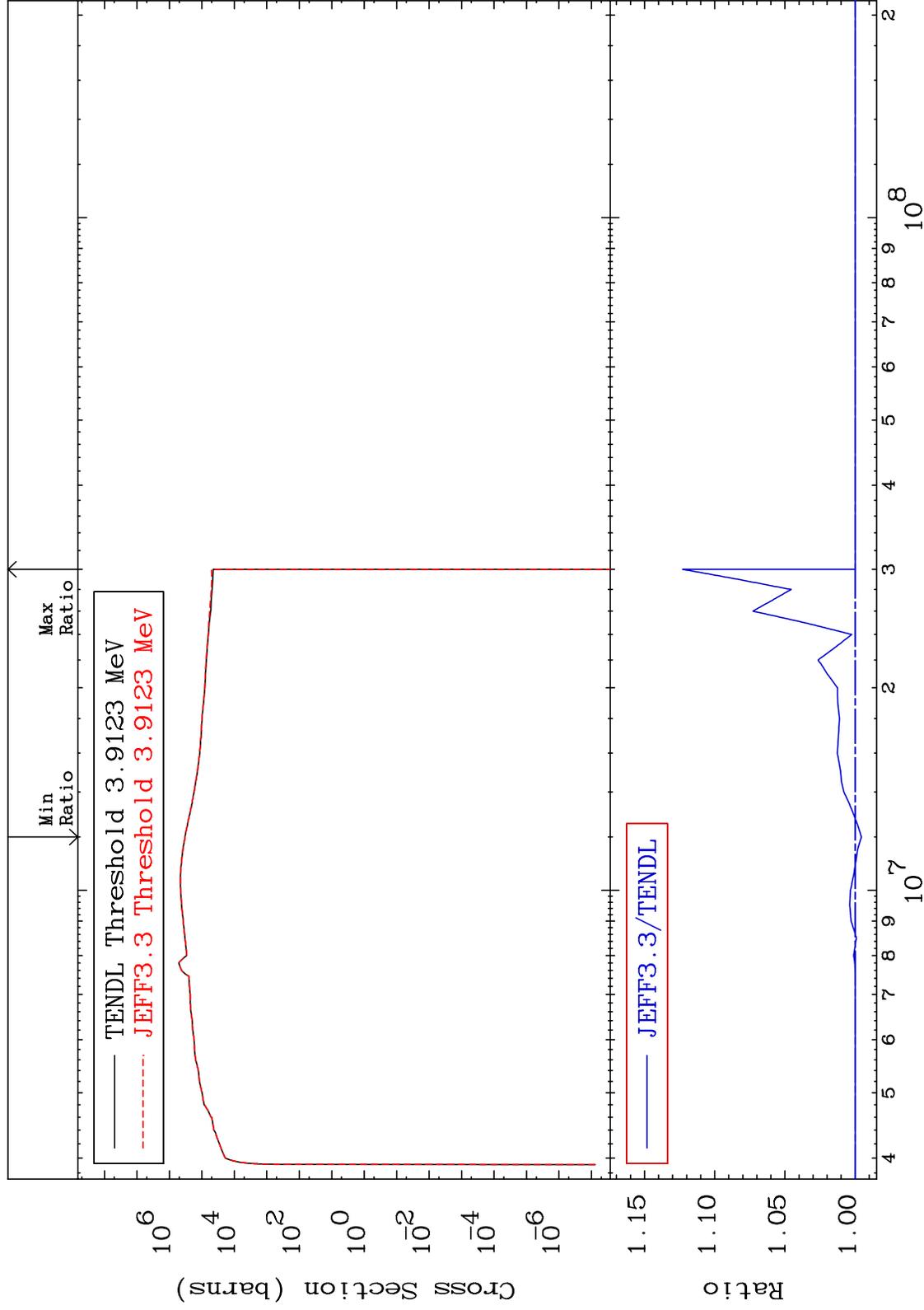
MAT 2049 Kerma non-elastic (all but mt2) 20-Ca-48
 Cross Section -100.0 To 9999. %



MAT 2049

Kerma inelastic (mt51-91)
Cross Section

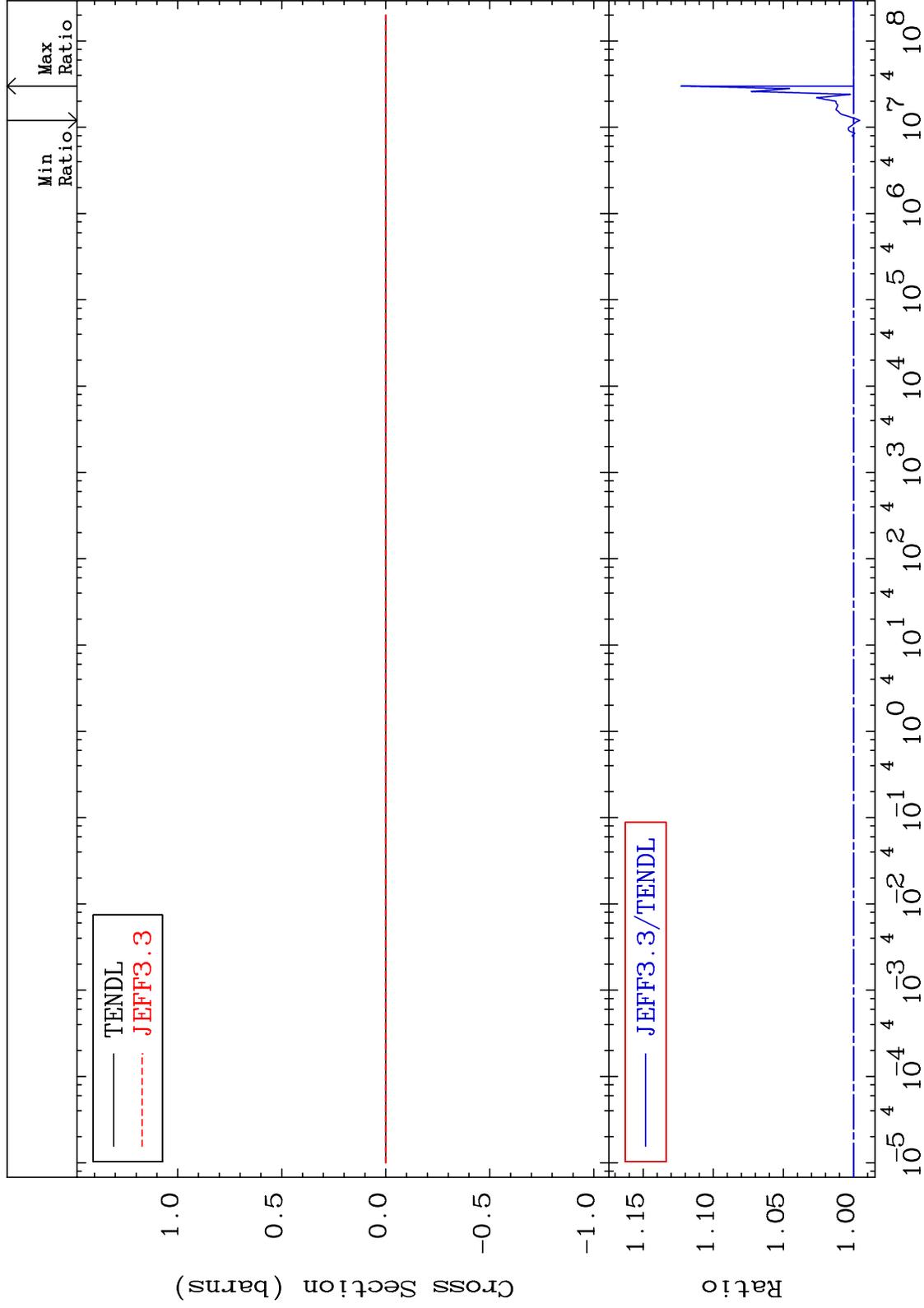
20-Ca-48
-0.445 To 12.28 %



MAT 2049

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

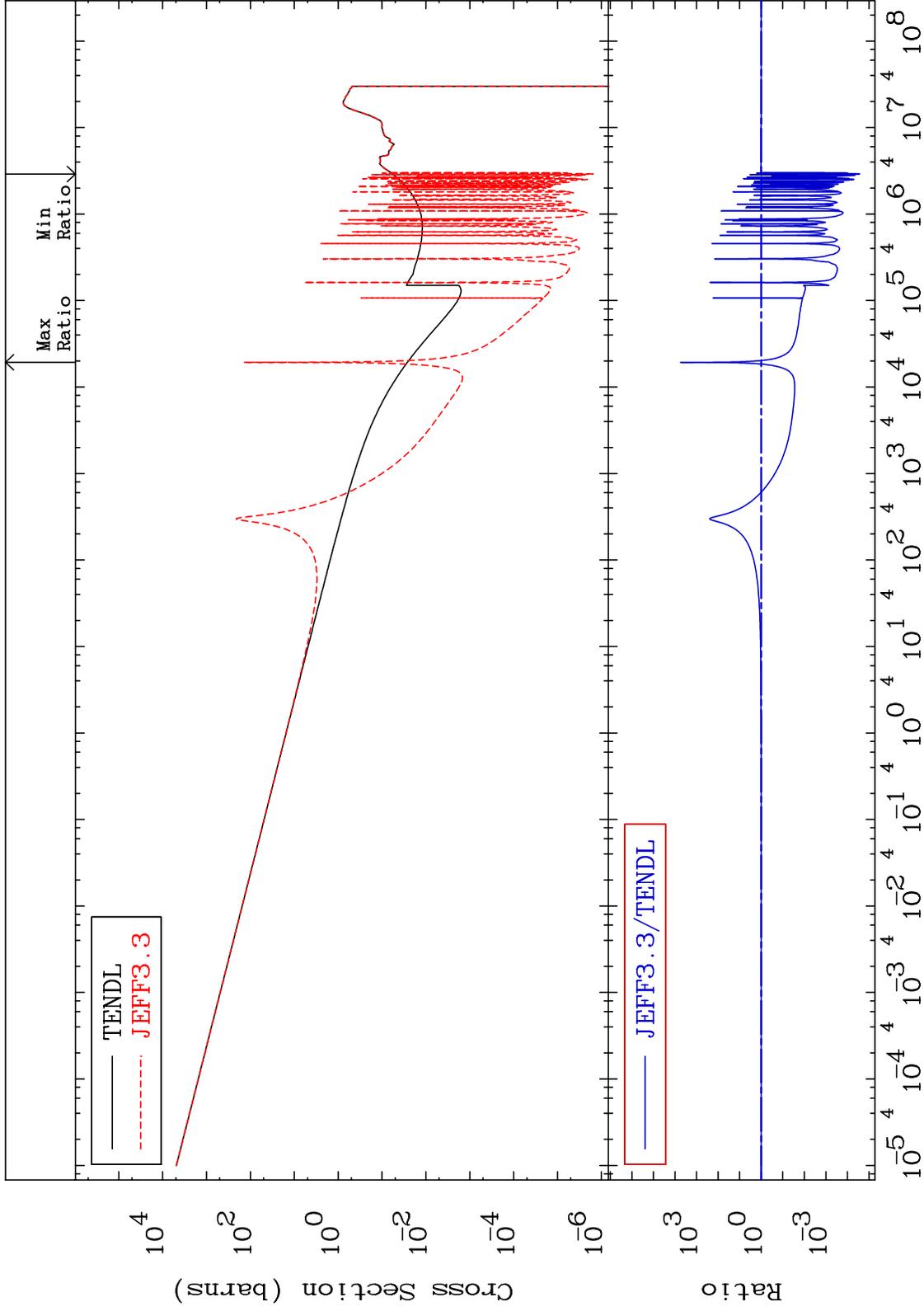
20-Ca-48
-0.445 To 12.28 %



MAT 2049

Kerma capture (mt102)
Cross Section

20-Ca-48
-100.0 To 9999. %

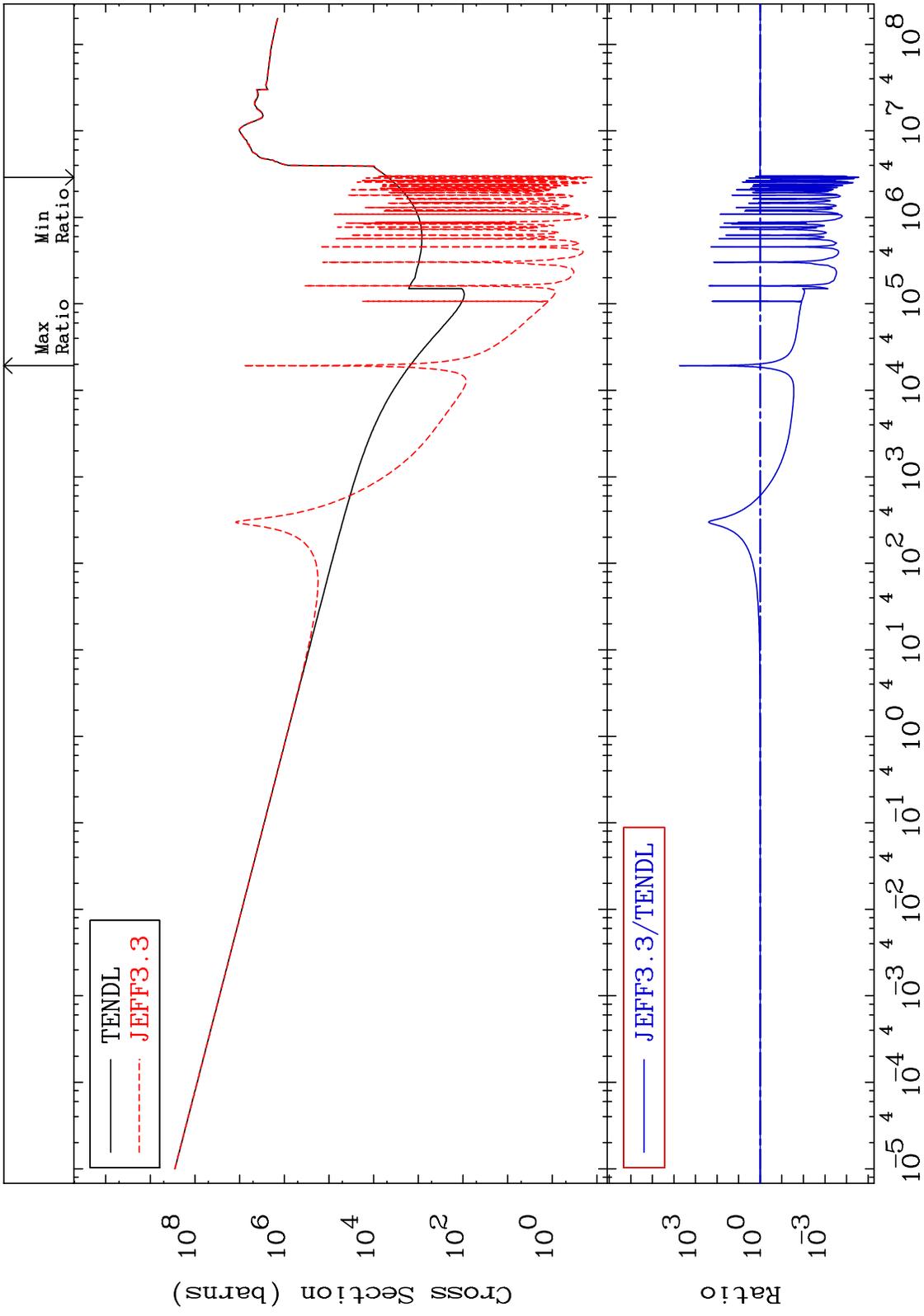


40

Incident Energy (eV)

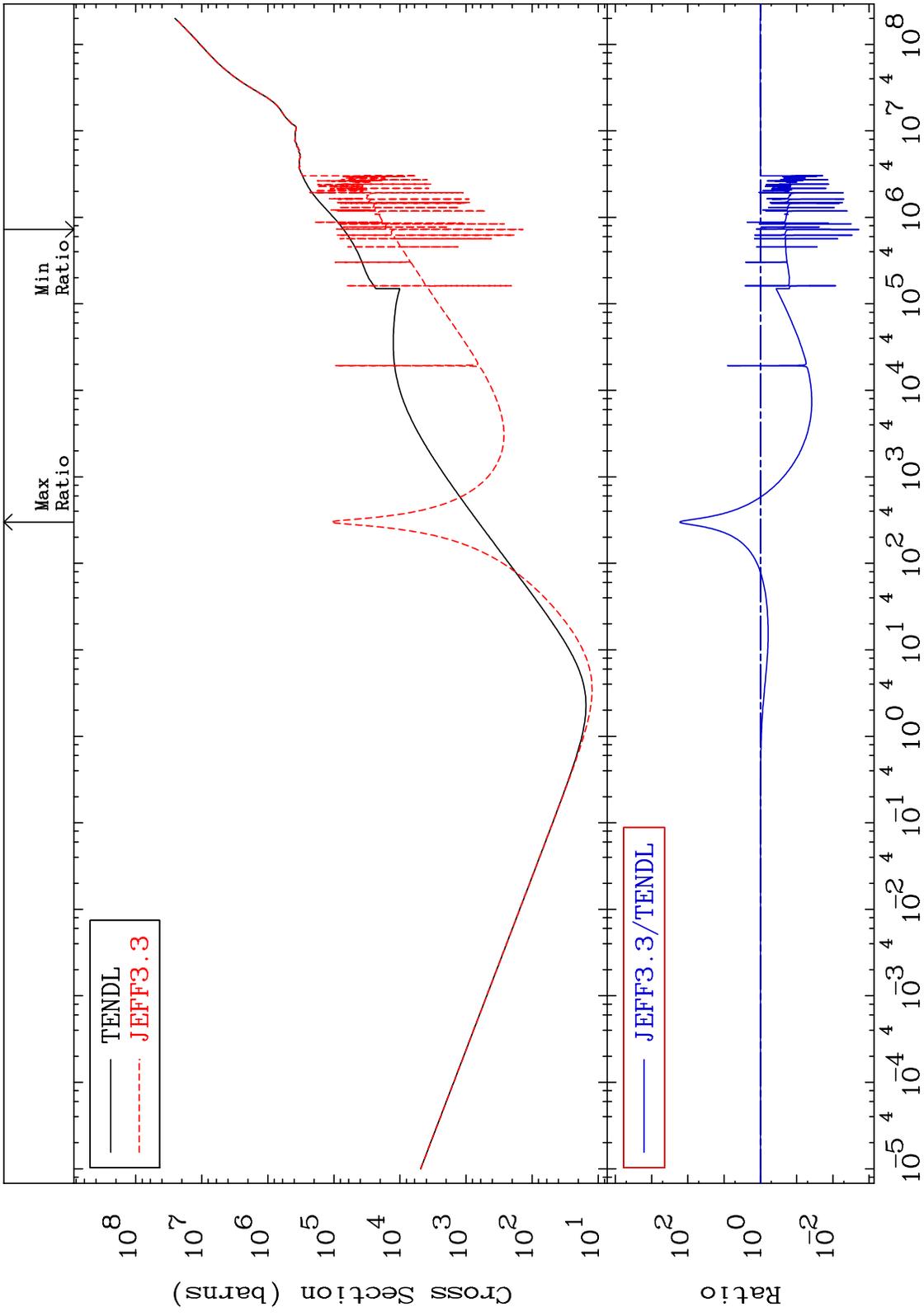
20-Ca-48

MAT 2049 Total photon (eV-barns) Cross Section 20-Ca-48
 -100.0 To 9999. %



41 Incident Energy (eV) 20-Ca-48

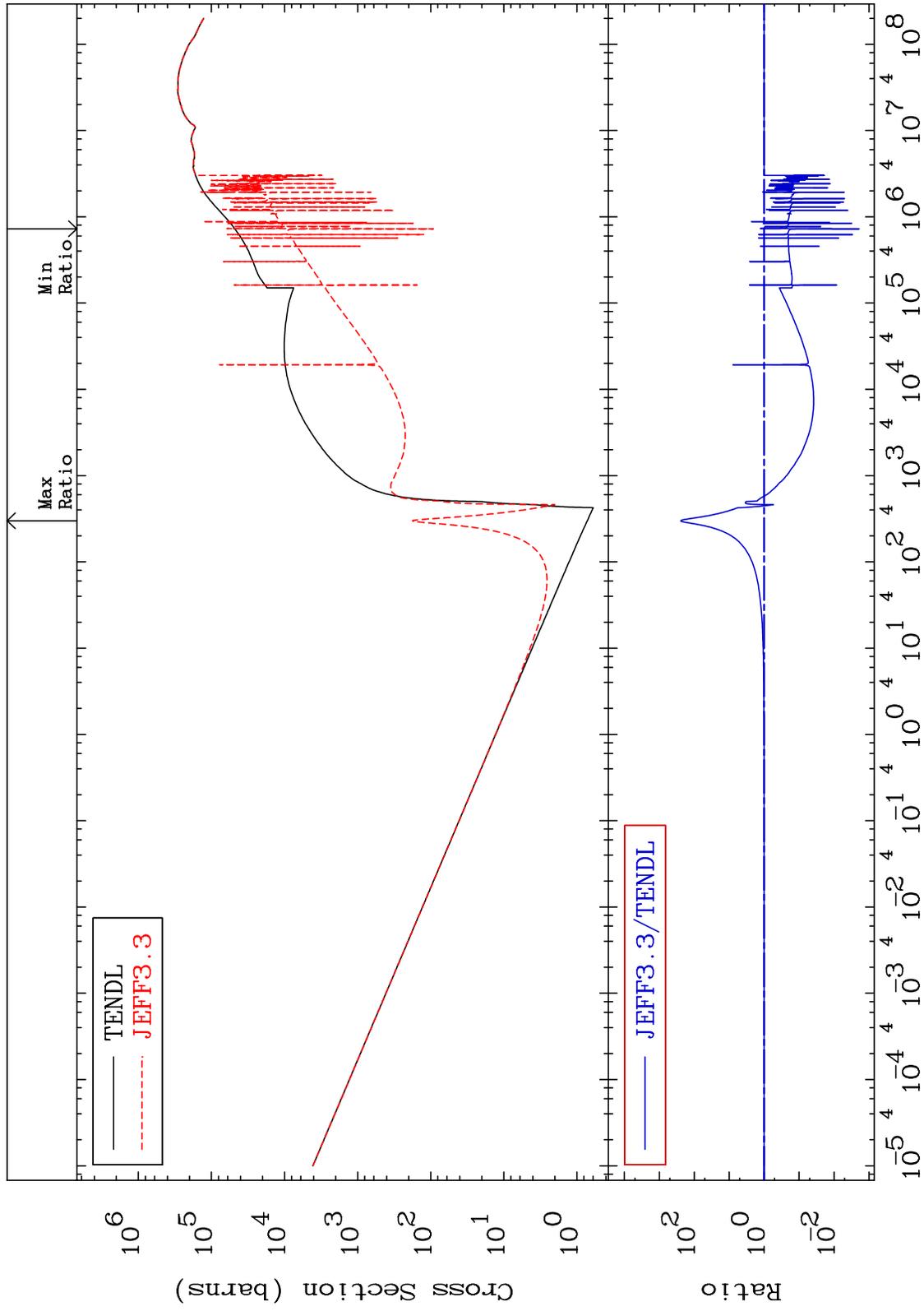
MAT 2049 Total kinematic kerma (high limit) Cross Section -99.81 To 9999. % 20-Ca-48



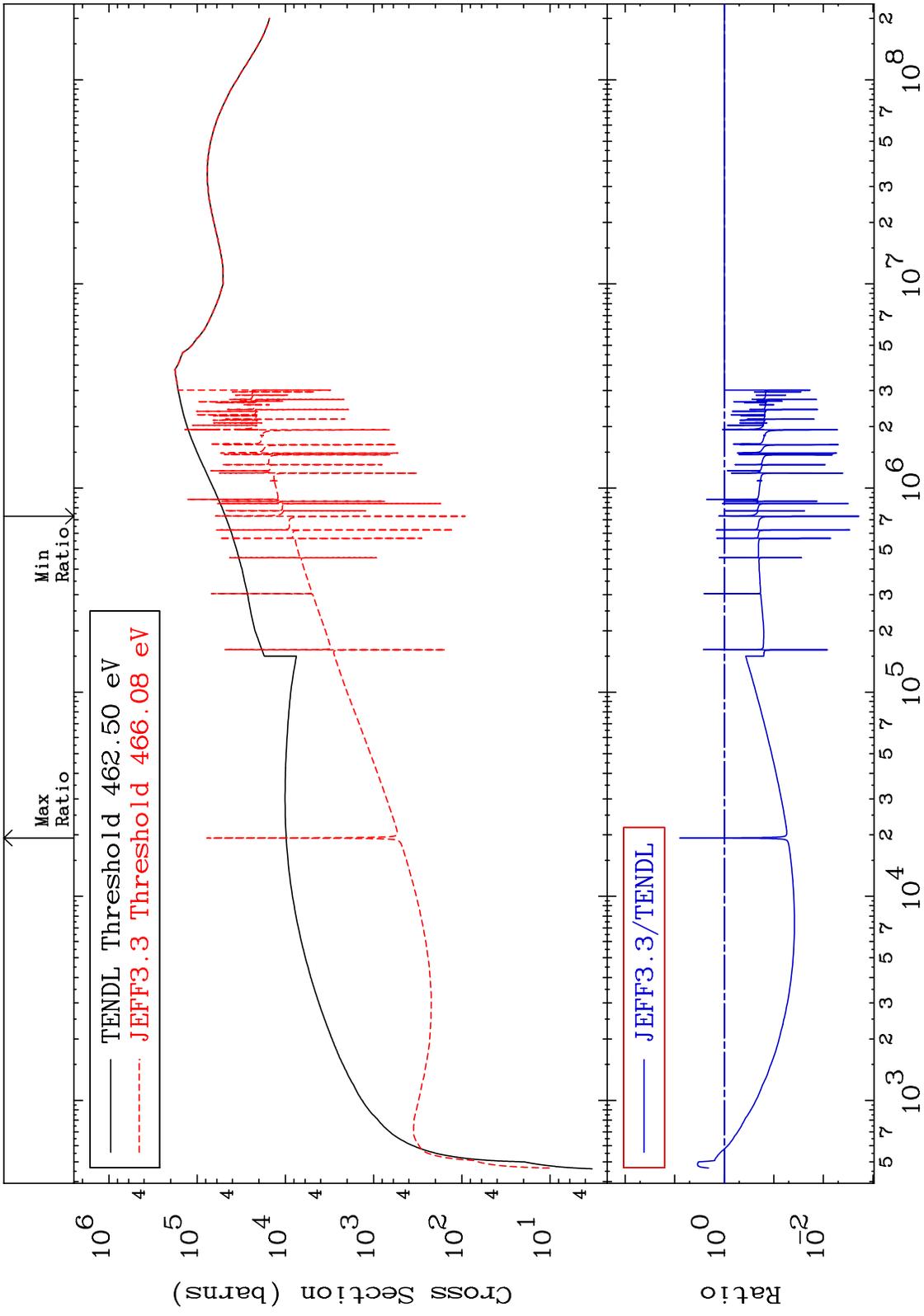
MAT 2049

Dpa total (eV-barns)
Cross Section

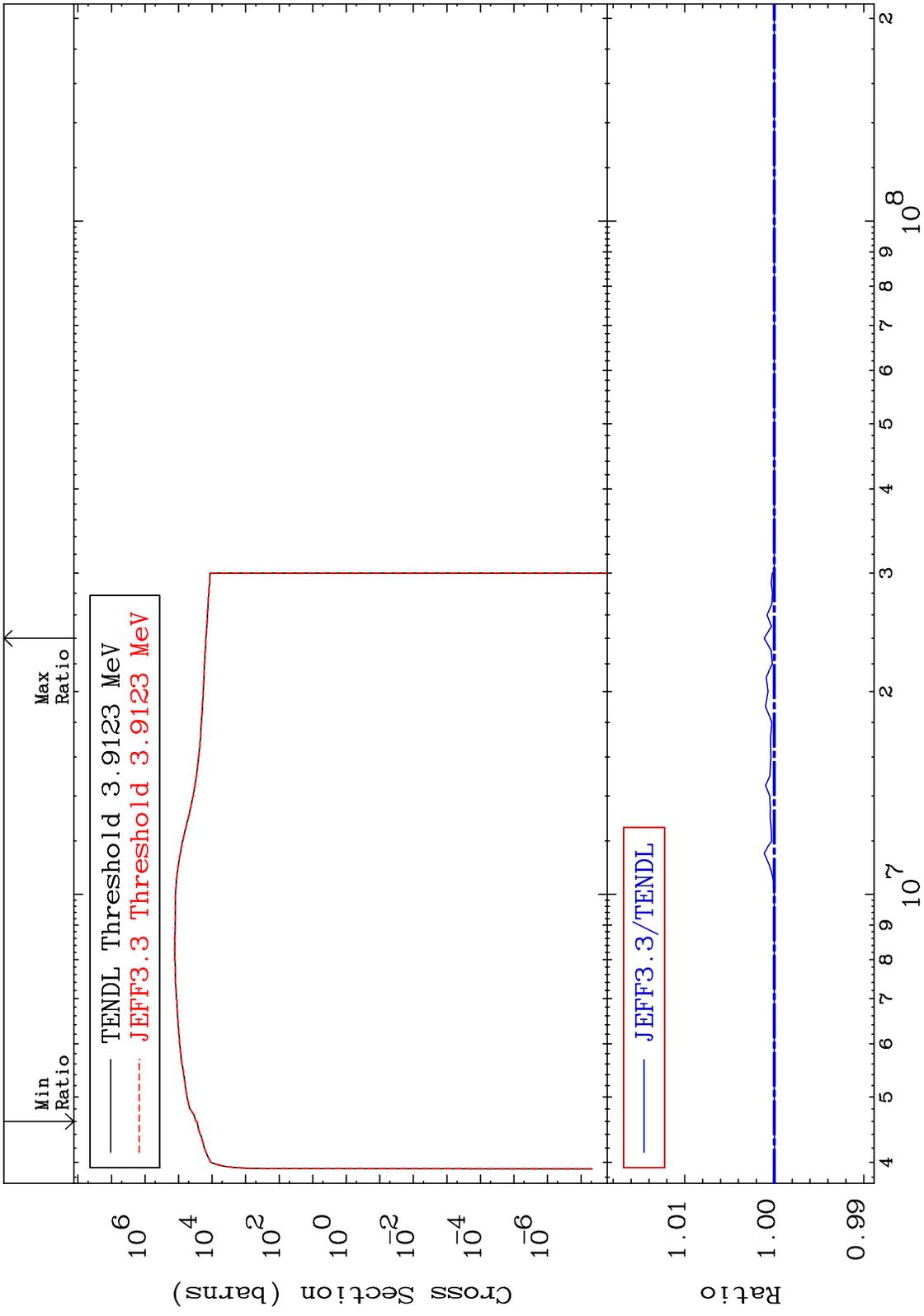
20-Ca-48
-99.81 To 9999. %



MAT 2049 20-Ca-48
 Dpa elastic (mt2) -99.81 To 691.4 %
 Cross Section

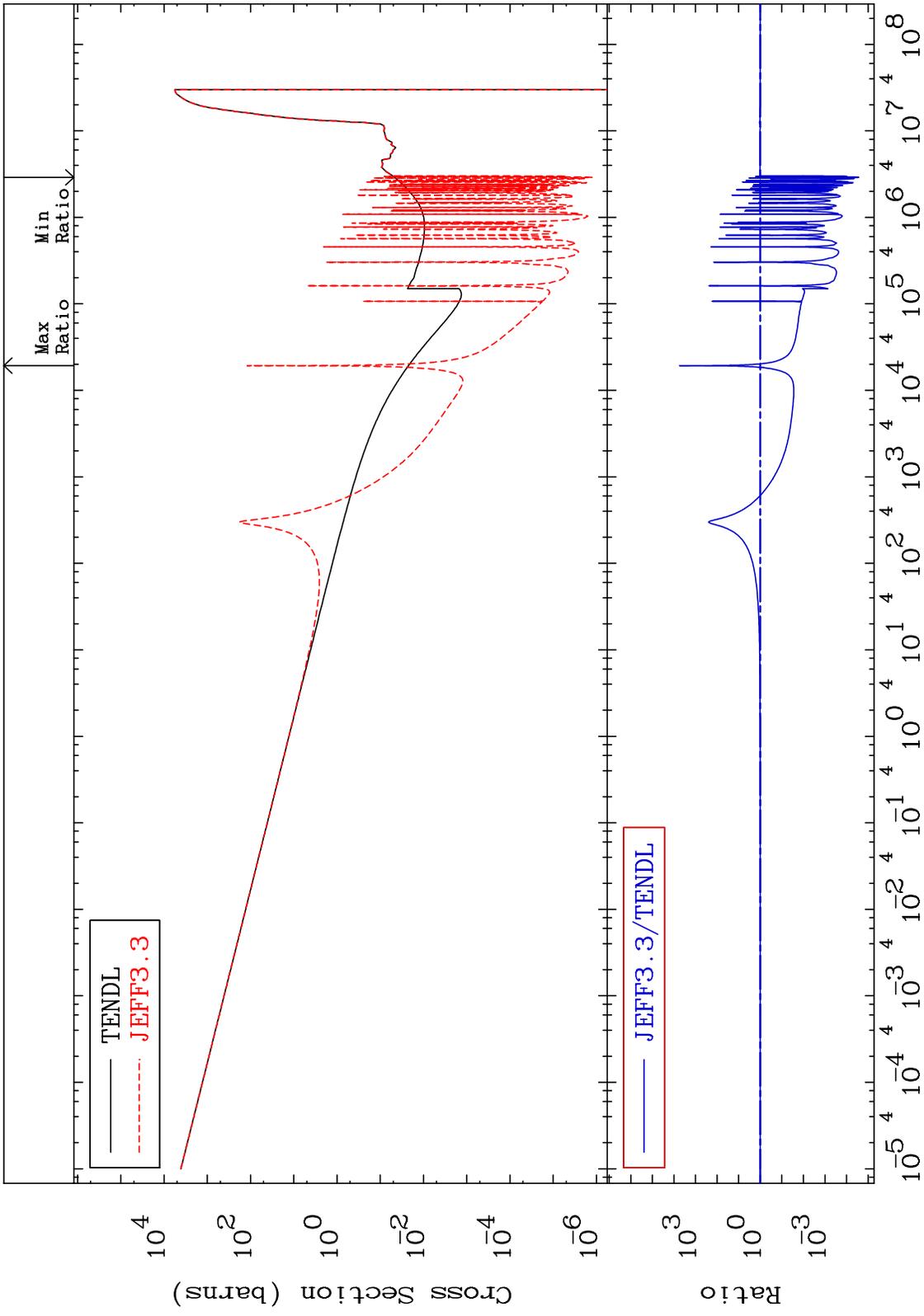


MAT 2049 Dpa inelastic (mt51-91) 20-Ca-48
Cross Section -0.002 To 0.113 %

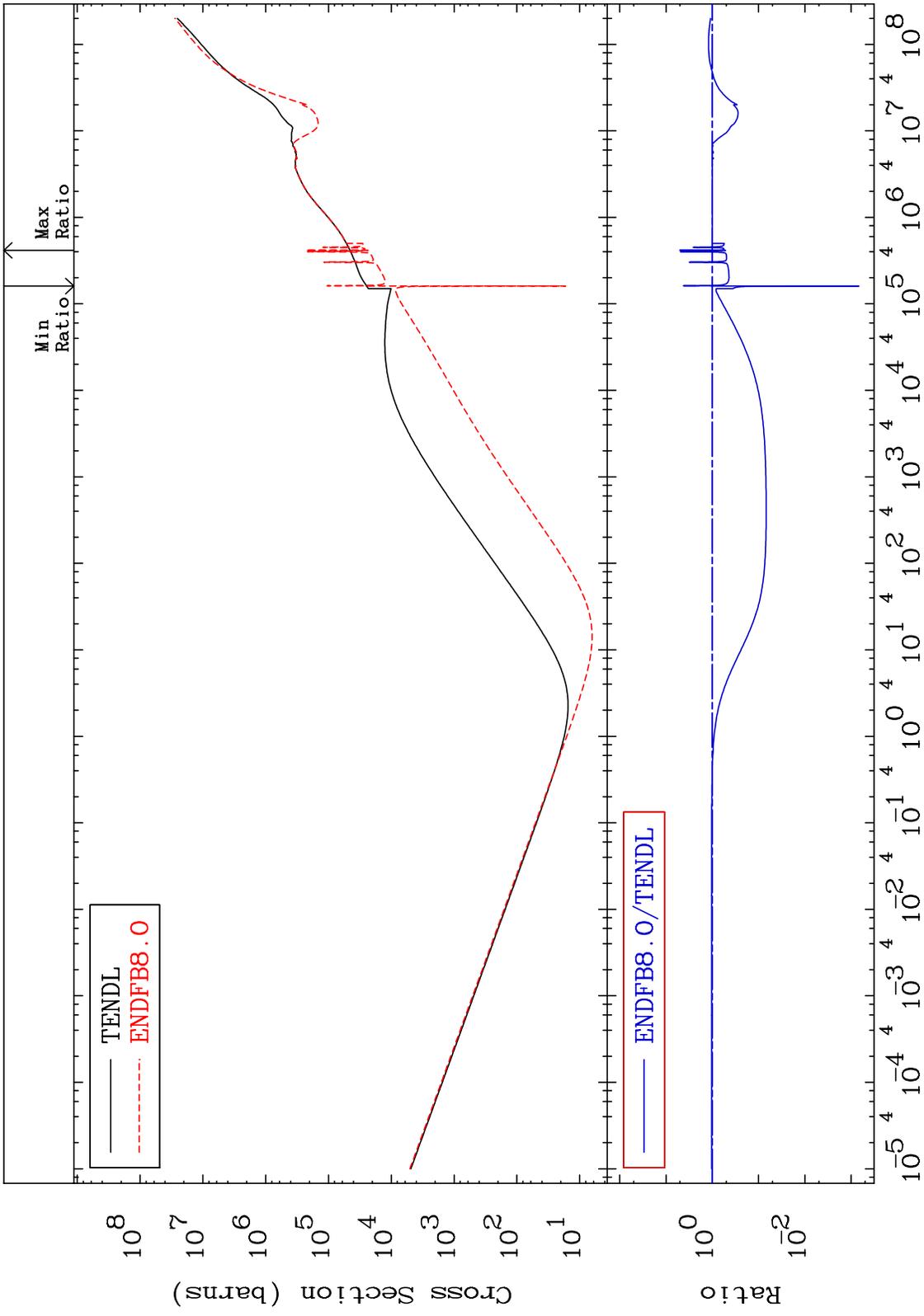


45 Incident Energy (eV) 20-Ca-48

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



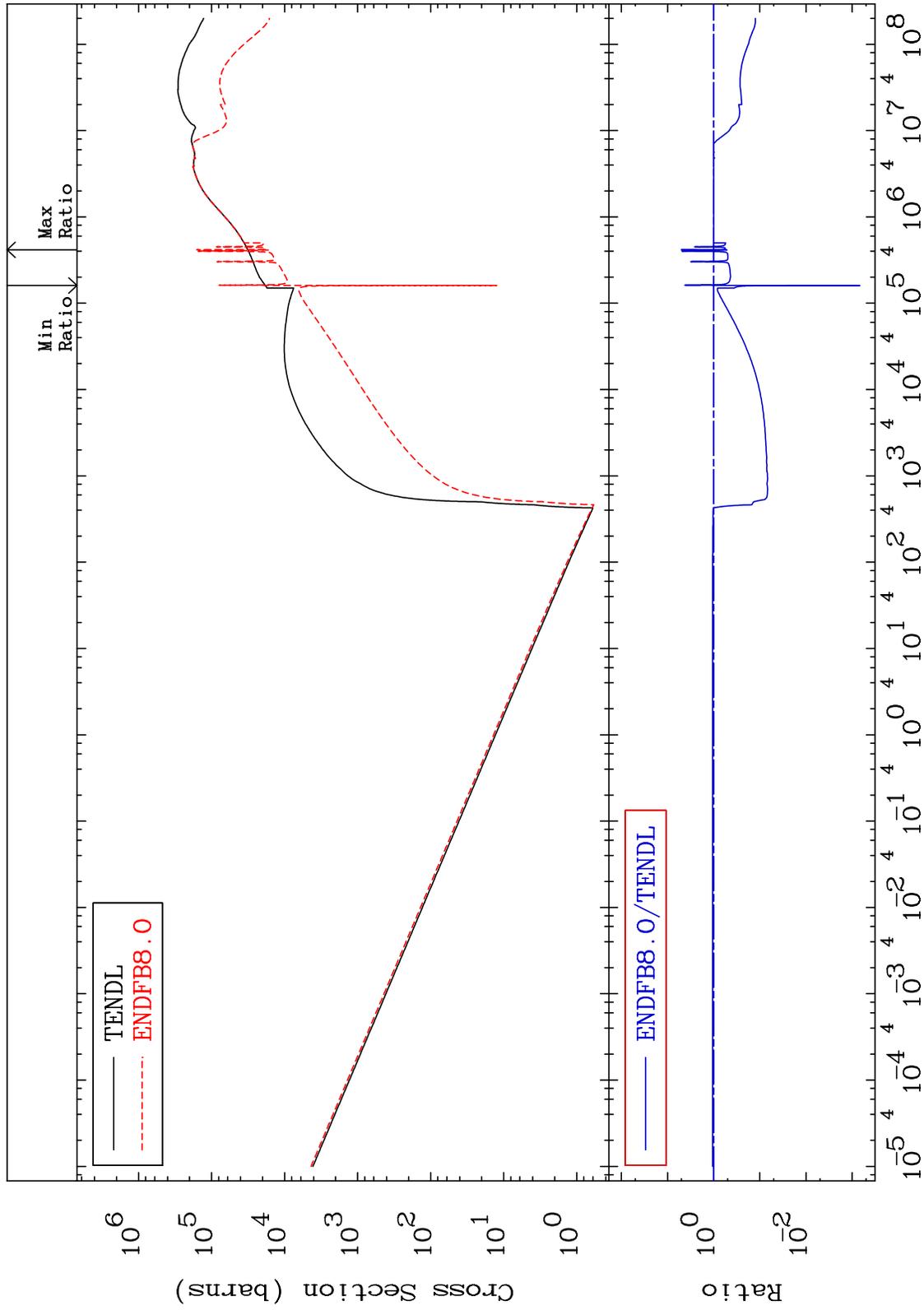
MAT 2049 Total kinematic kerma (high limit) Cross Section 20-Ca-48
 -99.93 To 404.9 %



MAT 2049

Dpa total (eV-barns)
Cross Section

20-Ca-48
-99.93 To 404.8 %



48

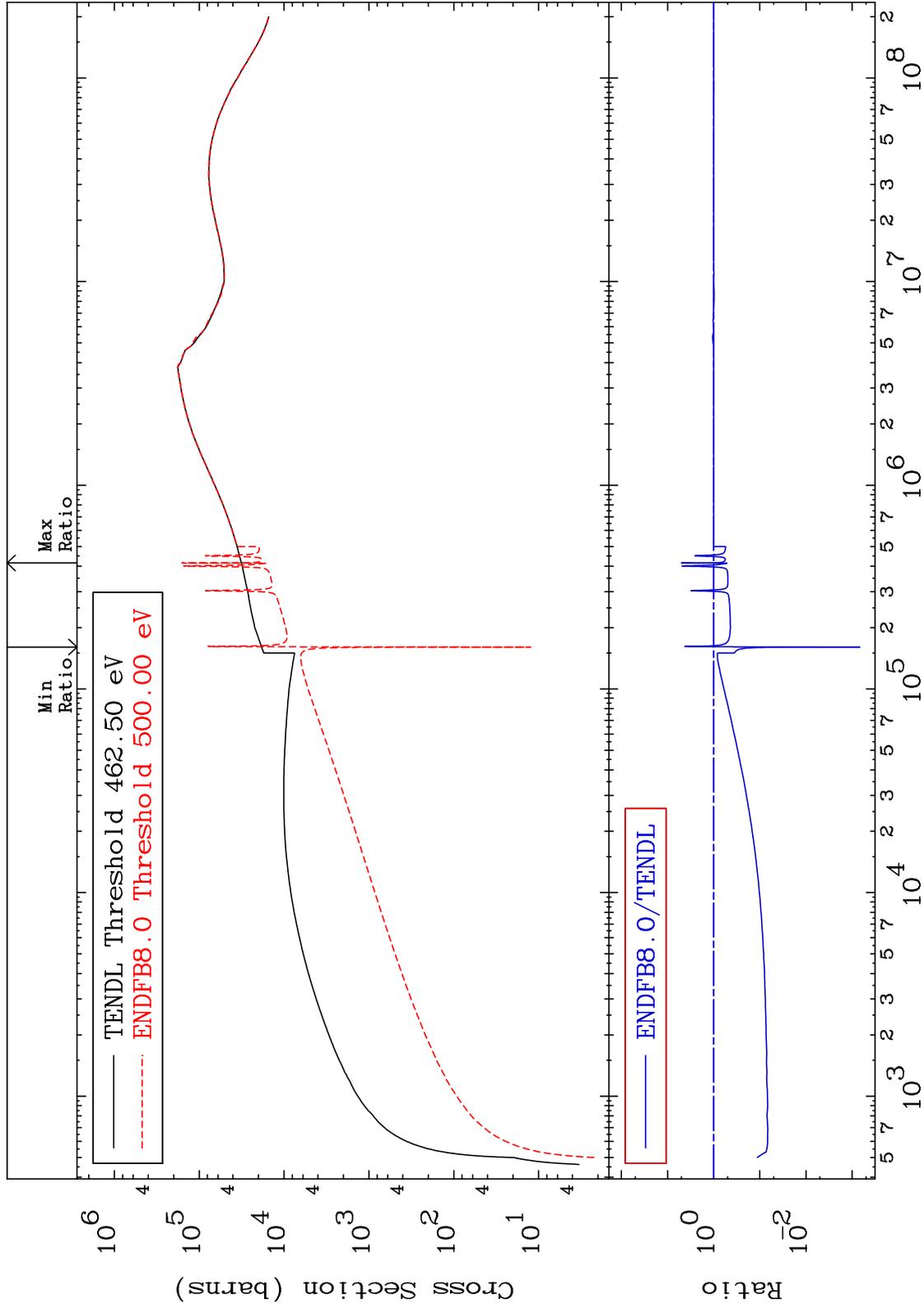
Incident Energy (eV)

20-Ca-48

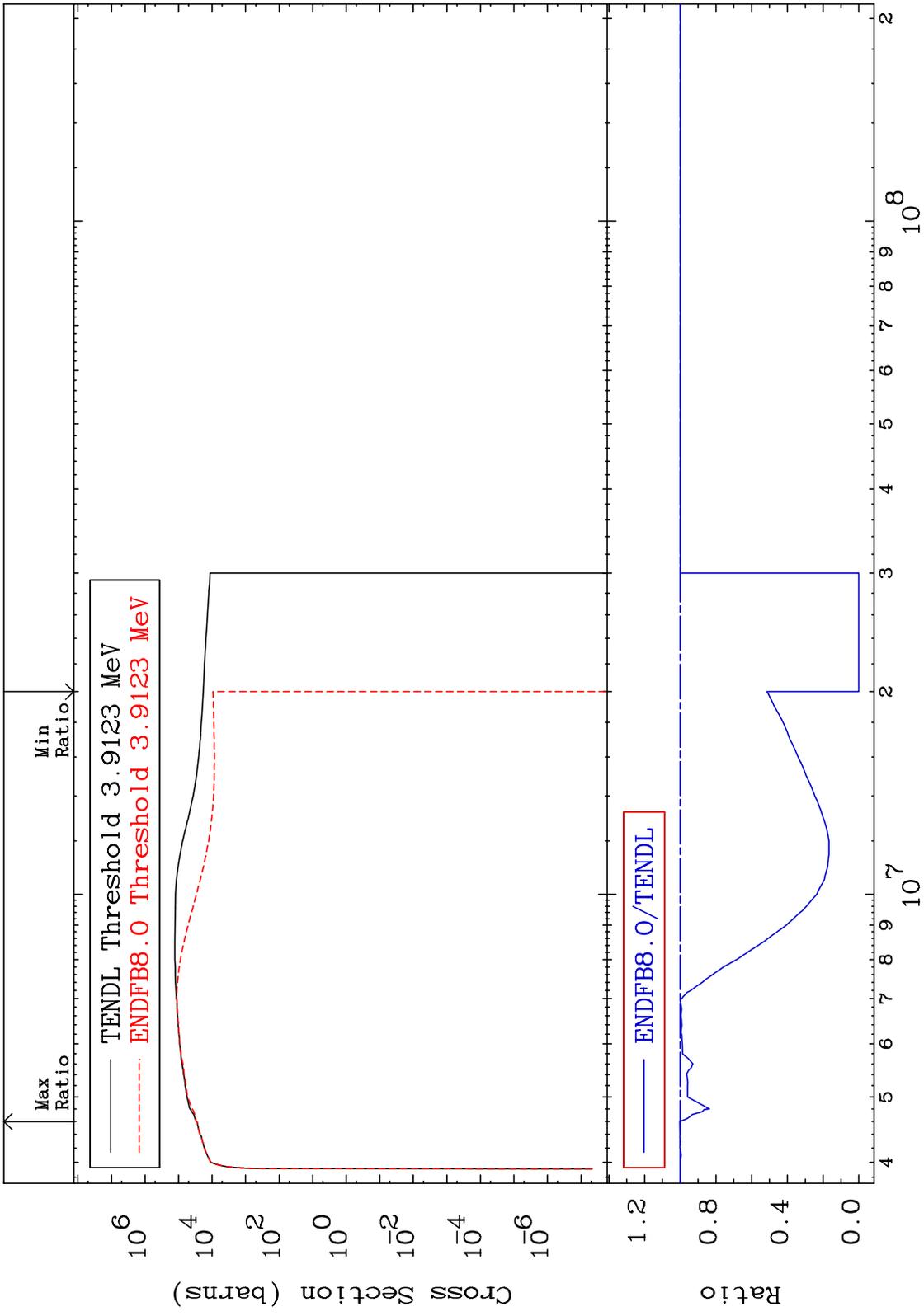
MAT 2049

Dpa elastic (mt2)
Cross Section

20-Ca-48
-99.93 To 404.8 %



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



50 Incident Energy (eV) 20-Ca-48

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

