

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

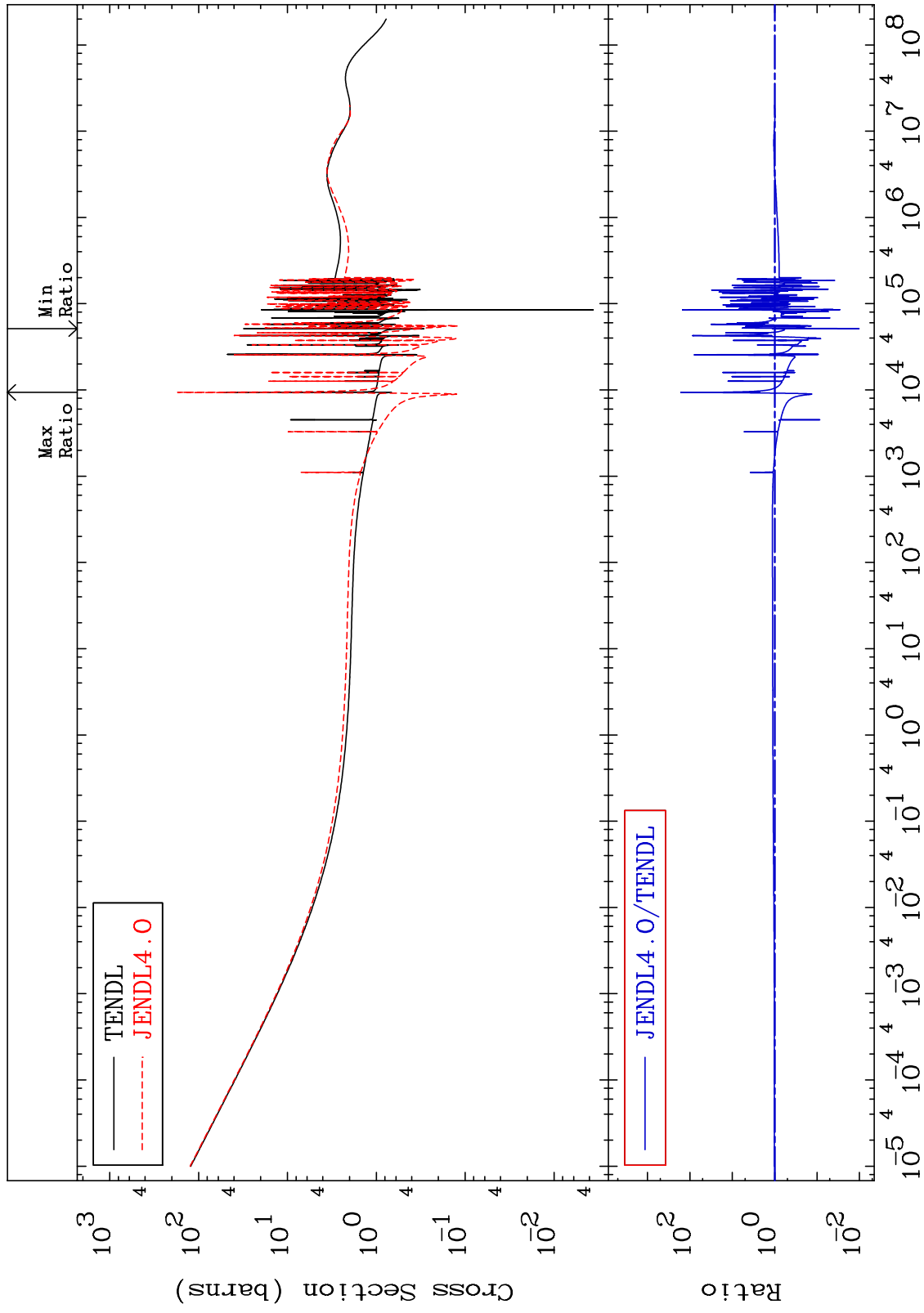
Press Mouse Button to Start

MAT 1925

Total
Cross Section

19-K -39

-98.97 To 9999. %



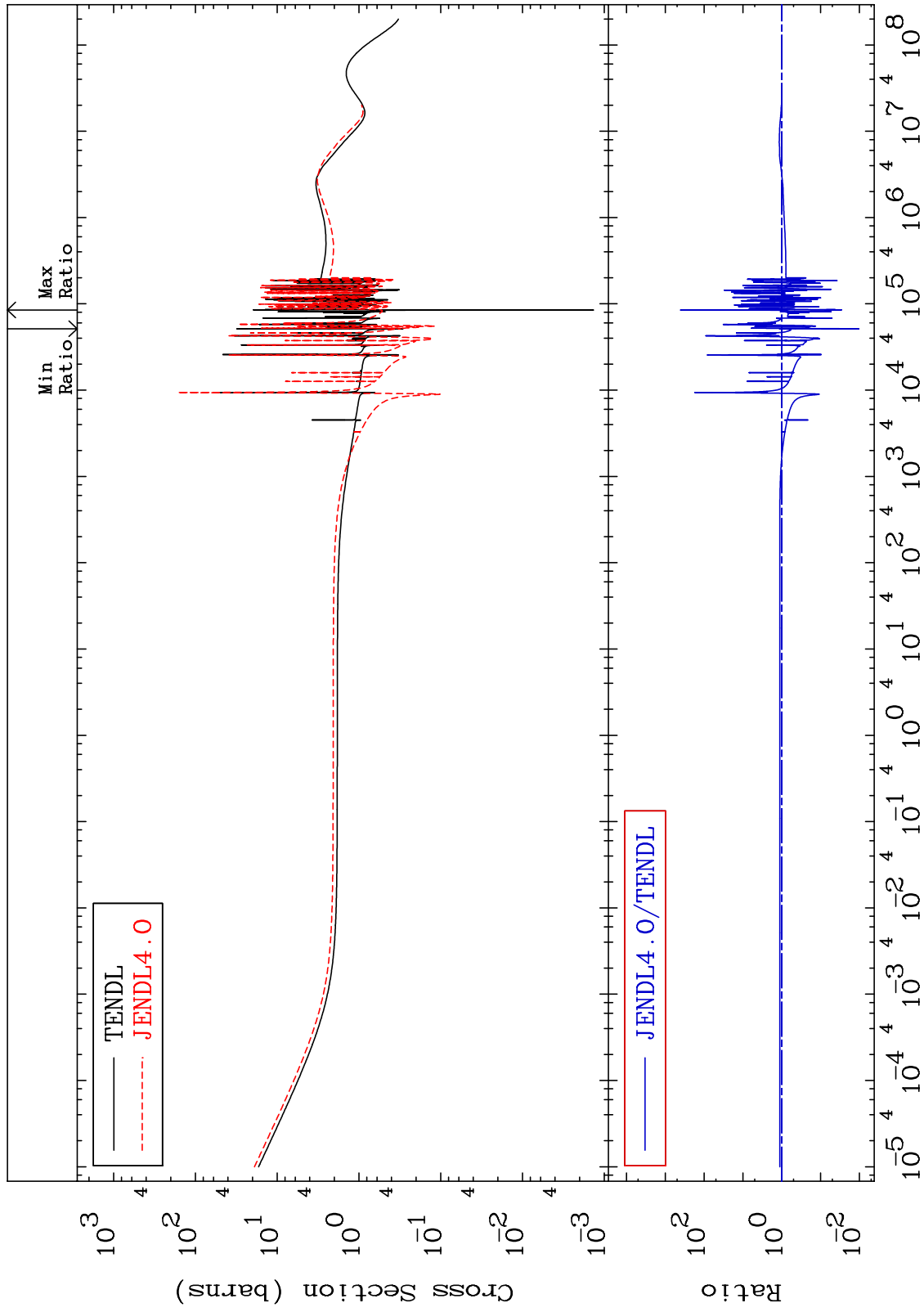
Incident Energy (eV)

19-K -39

MAT 1925

Elastic
Cross Section

19-K -39
-98.97 To 9999. %

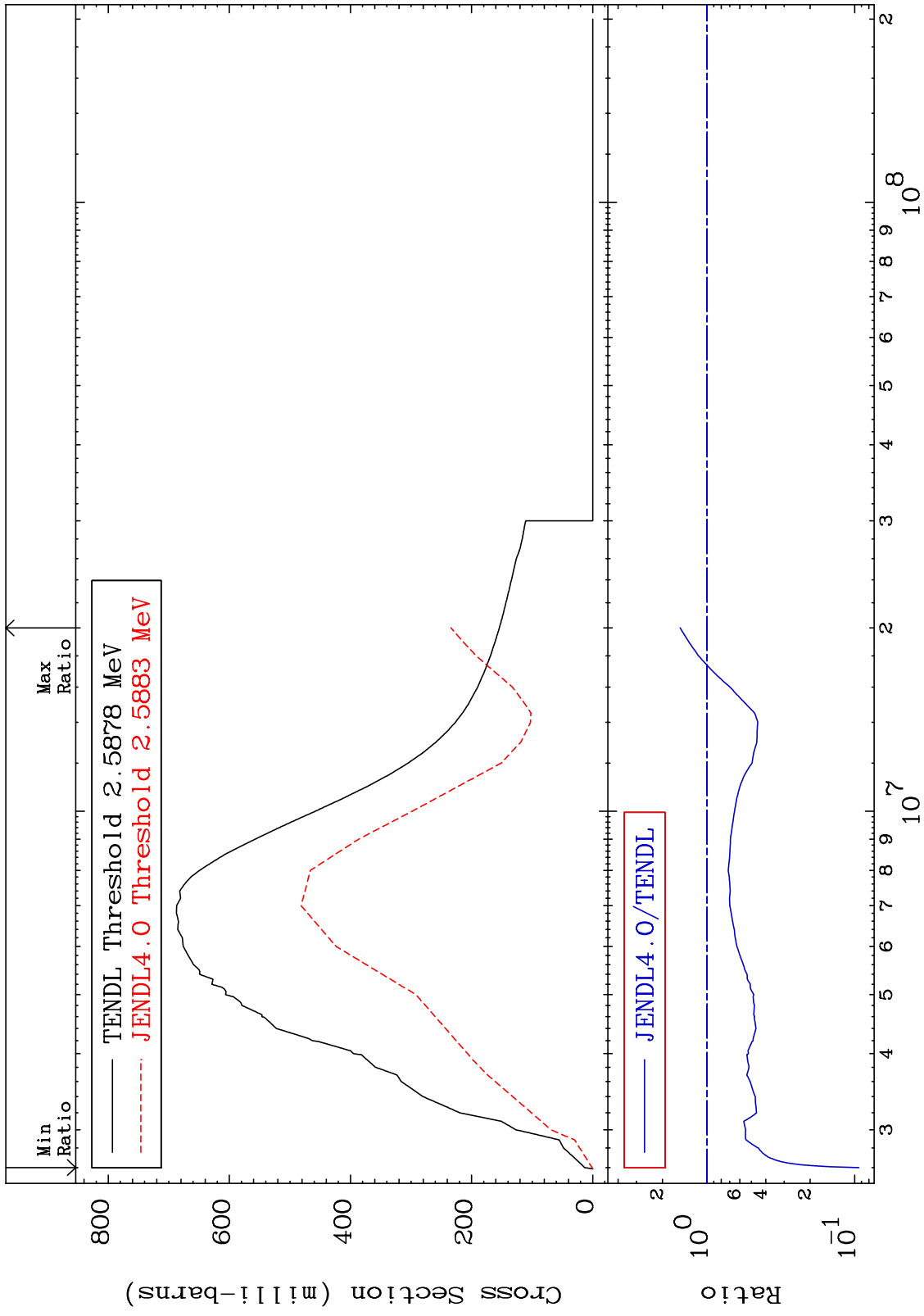


MAT 1925

Inelastic
Cross Section

19-K -39

-90.64 To 51.73 %

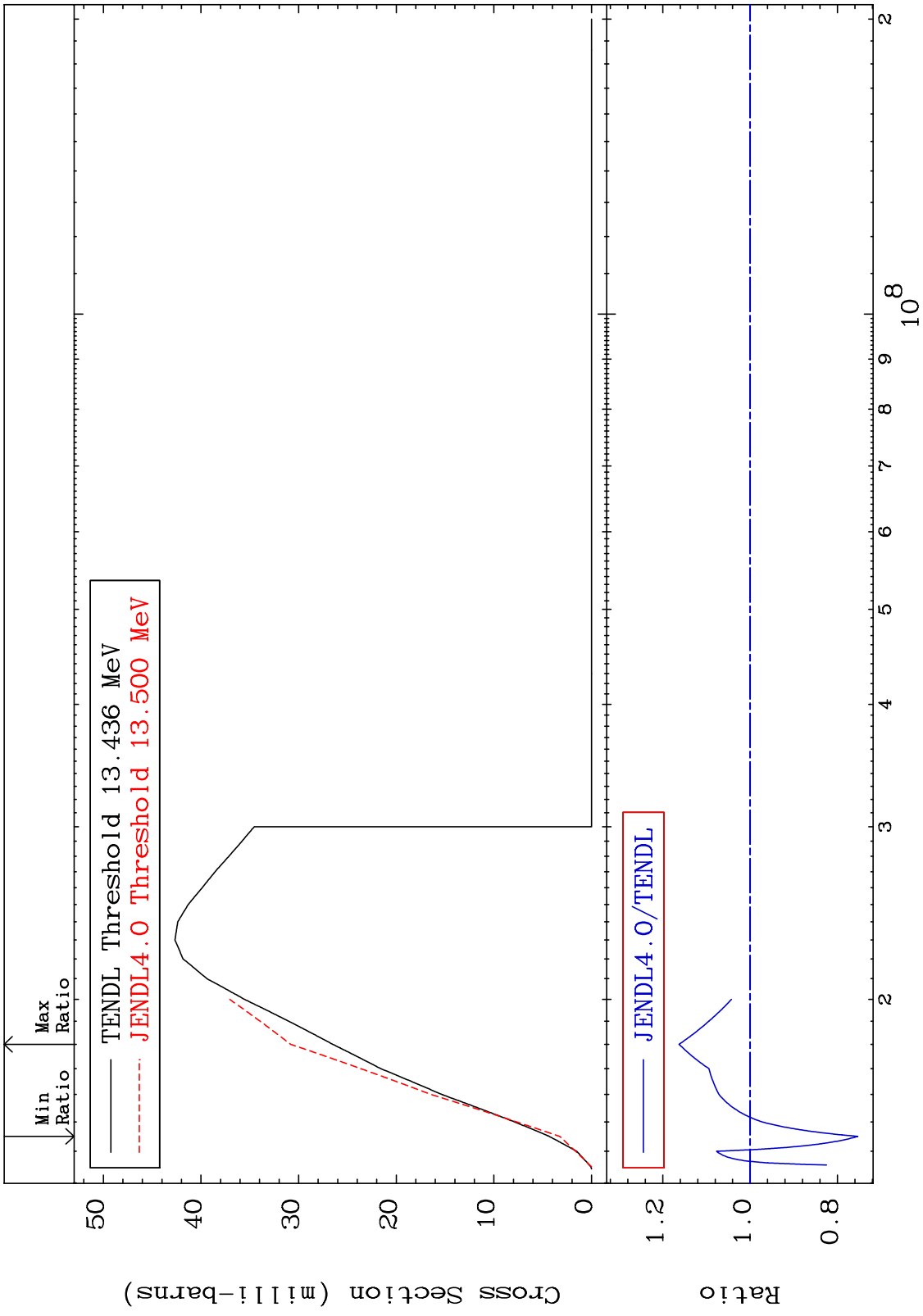


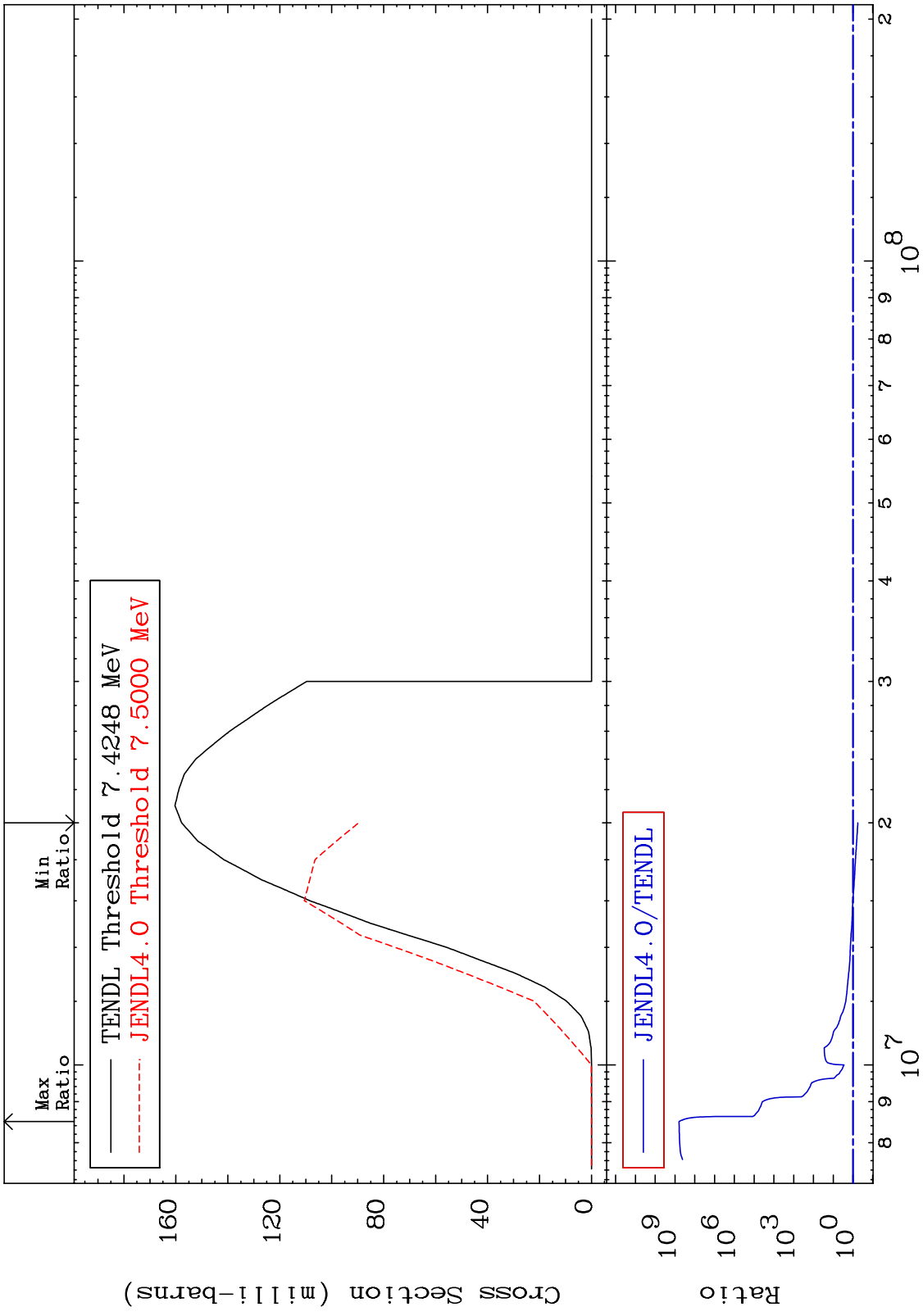
3

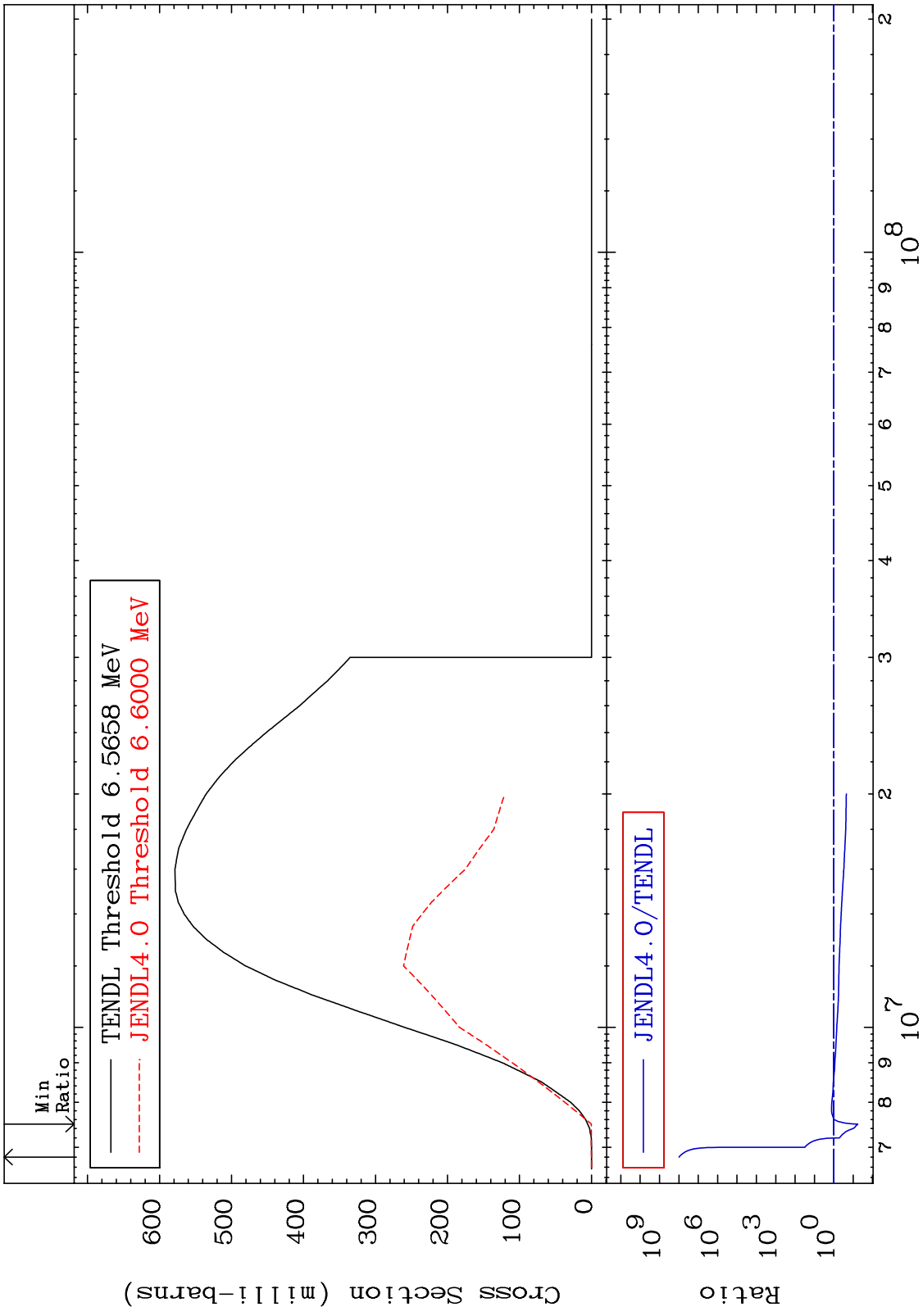
Incident Energy (eV)

19-K -39

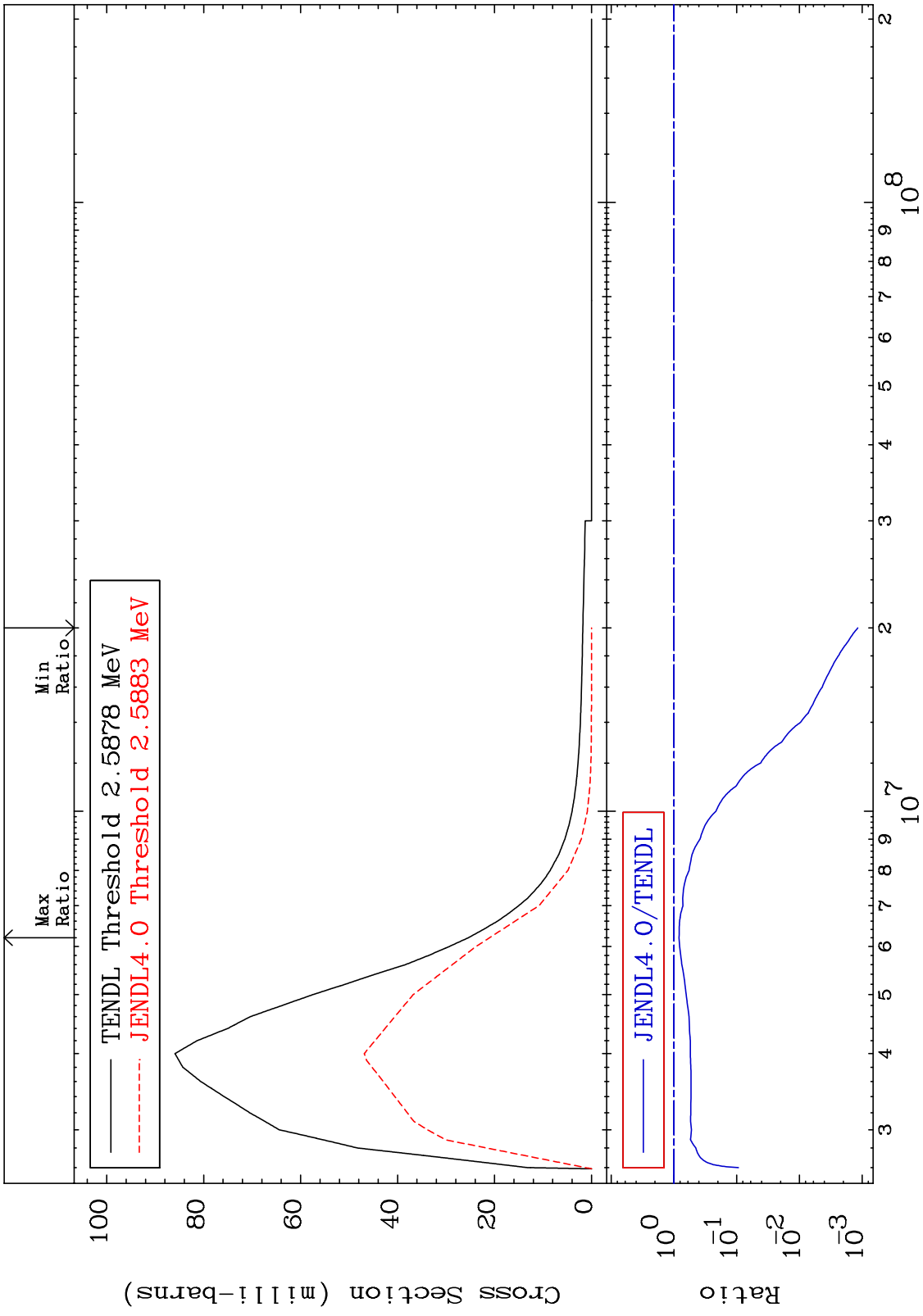
MAT 1925 (n,2n) Cross Section 19-K -39
 -24.68 To 16.28 %





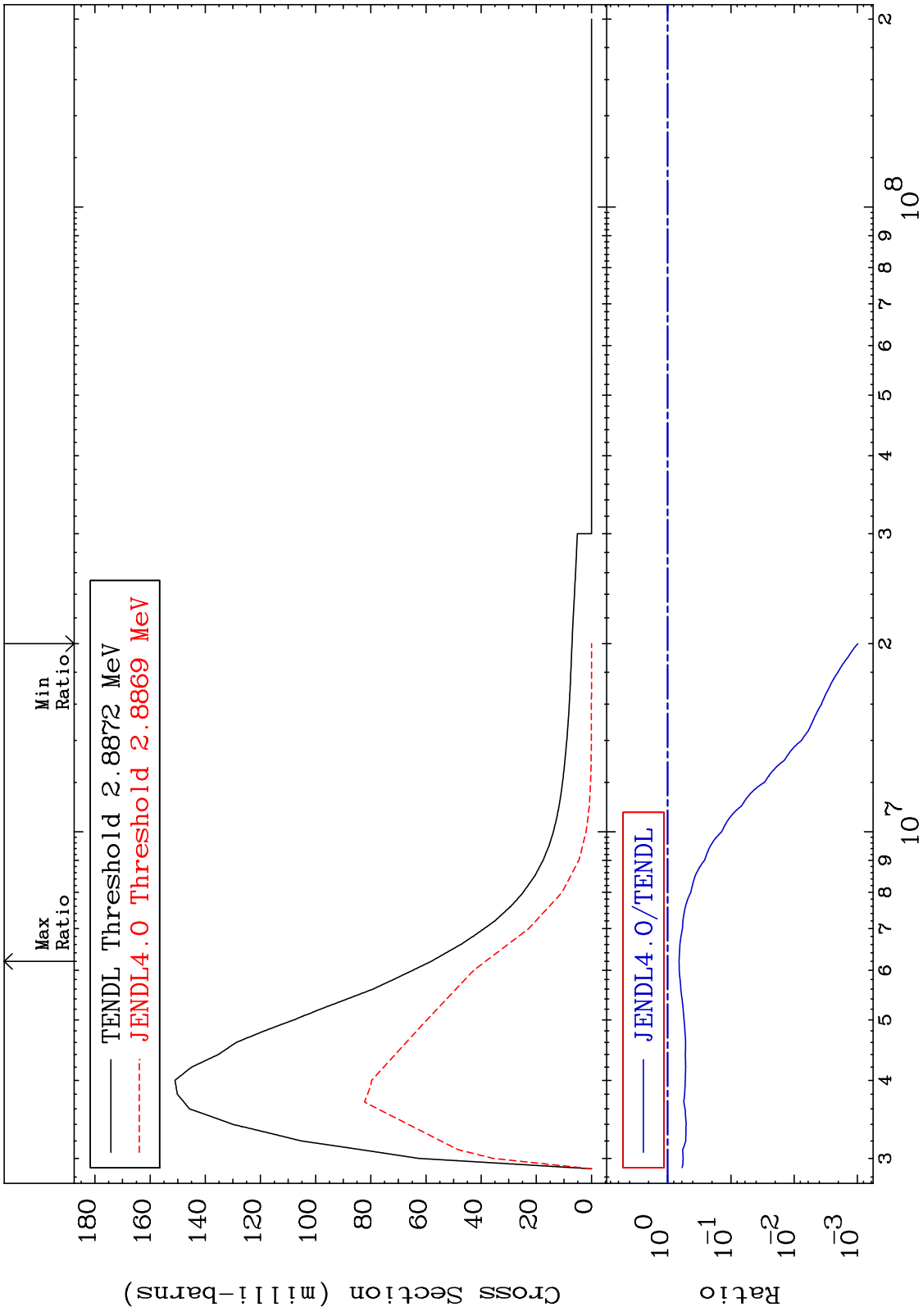


MAT 1925 MT= 51 (n,n') Level Cross Section 19-K -39
 -99.88 To -17.11%

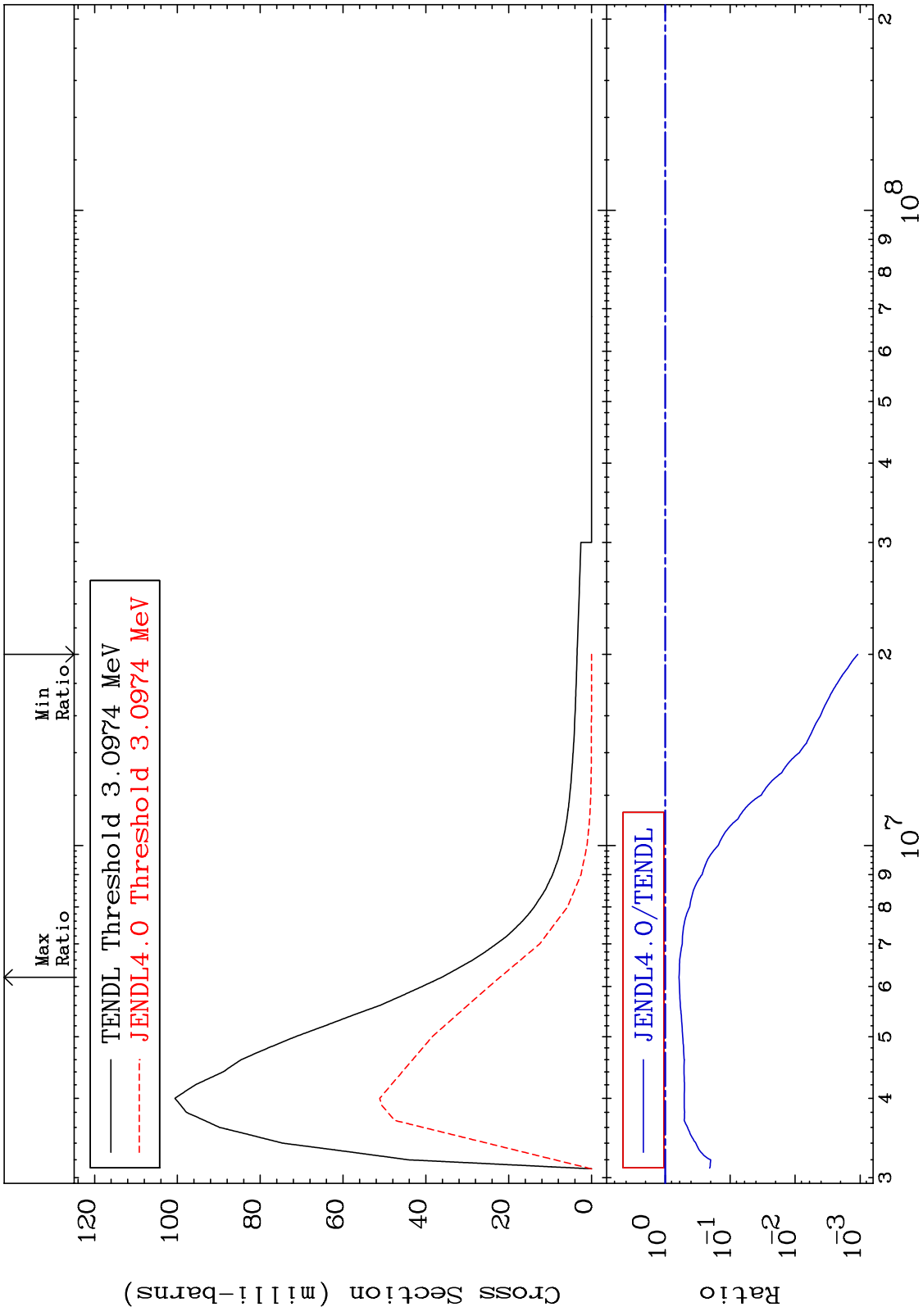


7 19-K -39

MAT 1925 MT= 52 (n,n') Level Cross Section 19-K -39
 -99.90 To -33.87%

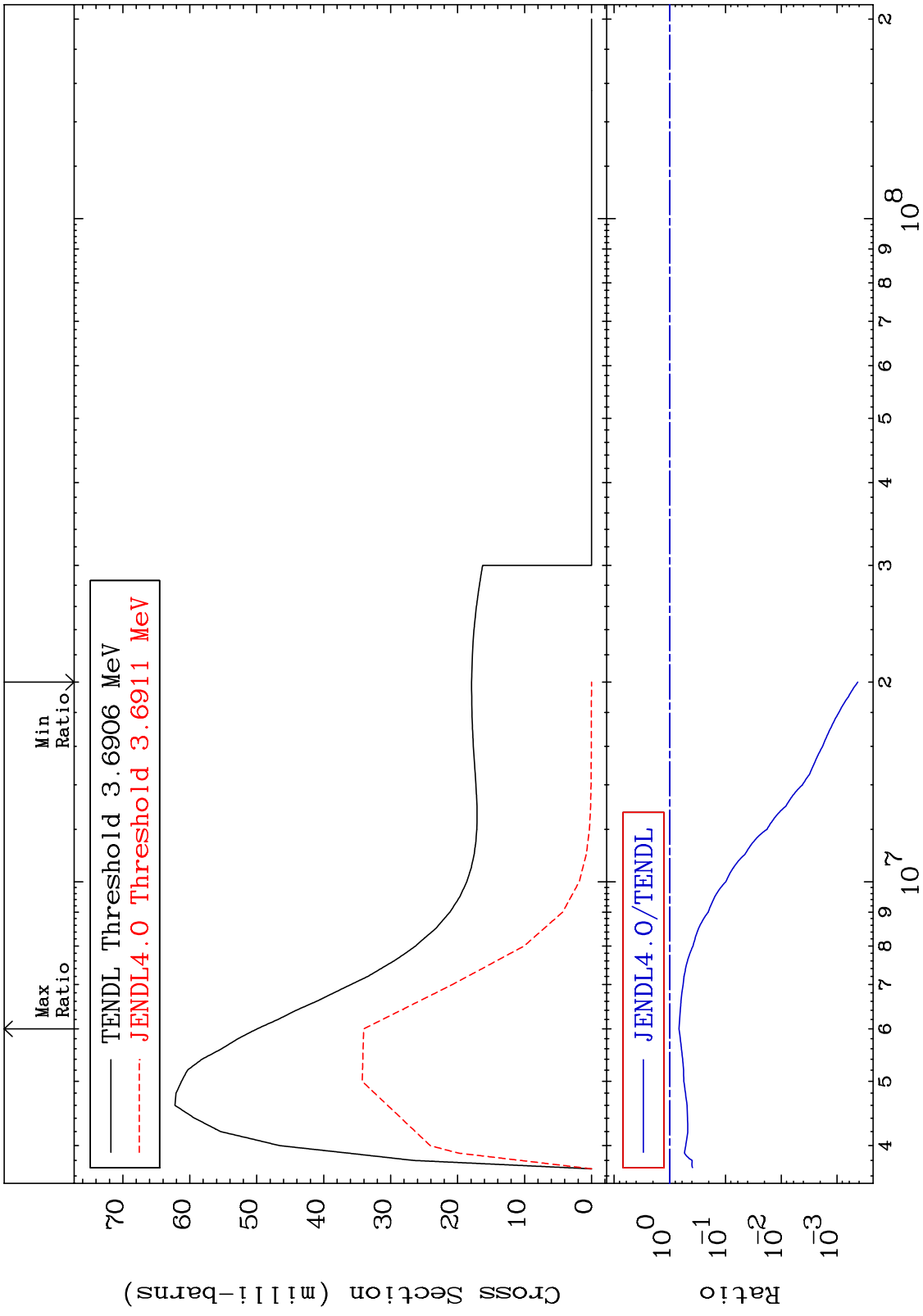


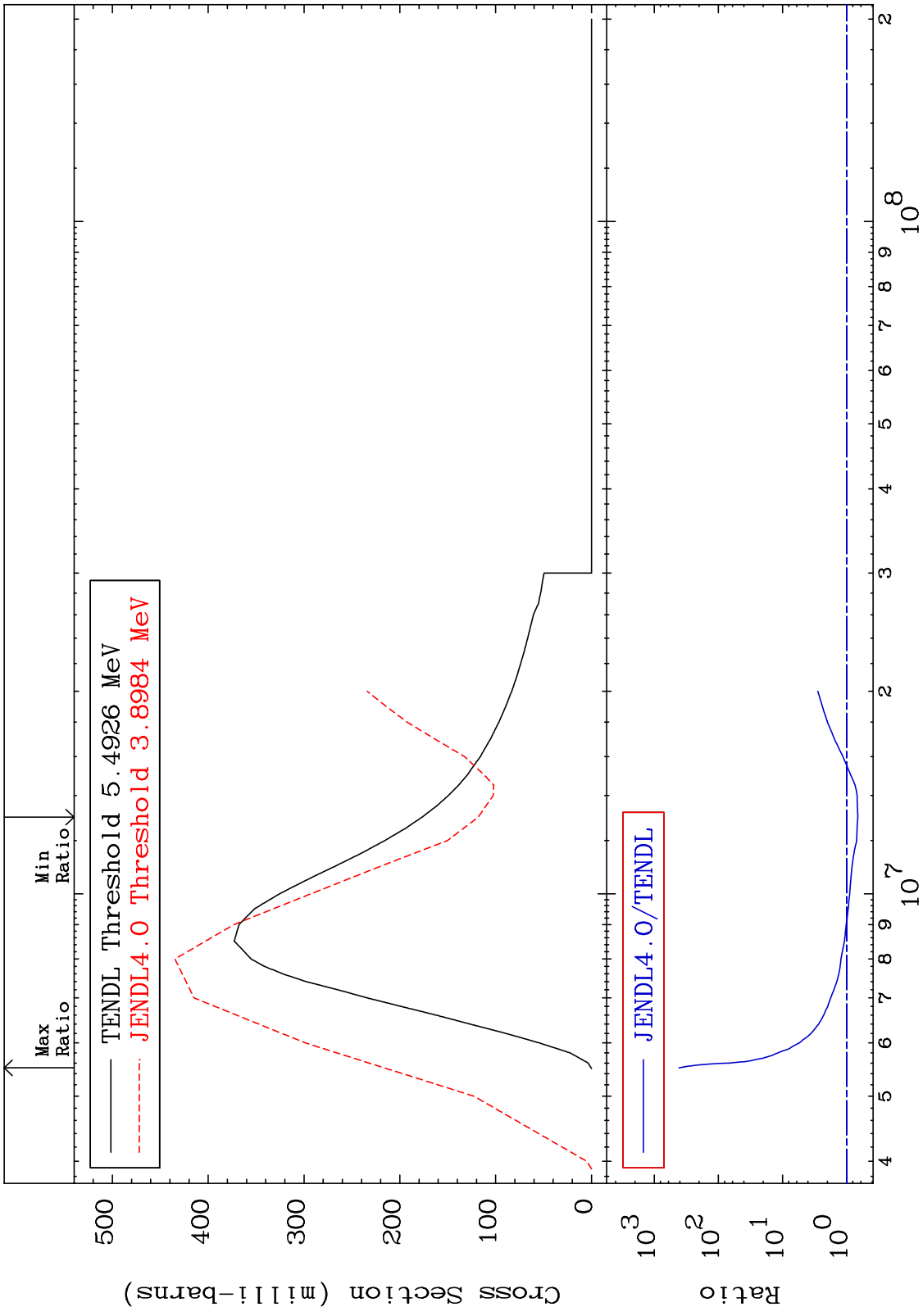
MAT 1925 MT= 53 (n,n') Level Cross Section 19-K -39
 -99.89 To -38.85%



9 19-K -39

MAT 1925 MT= 54 (n,n') Level Cross Section 19-K -39
 -99.96 To -31.88%





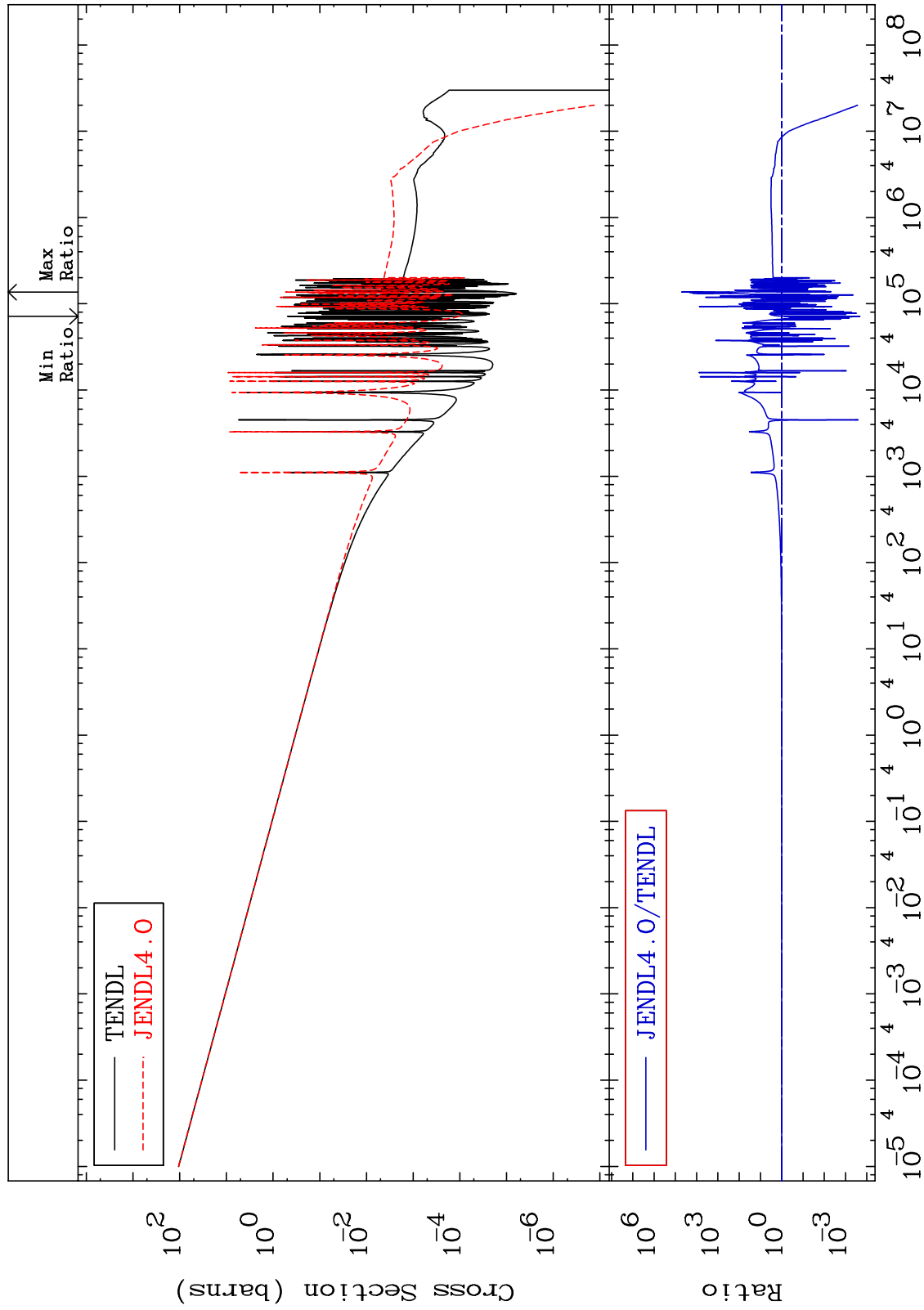
MAT 1925

(n, γ)

19-K -39

Cross Section

-99.98 To 9999. %



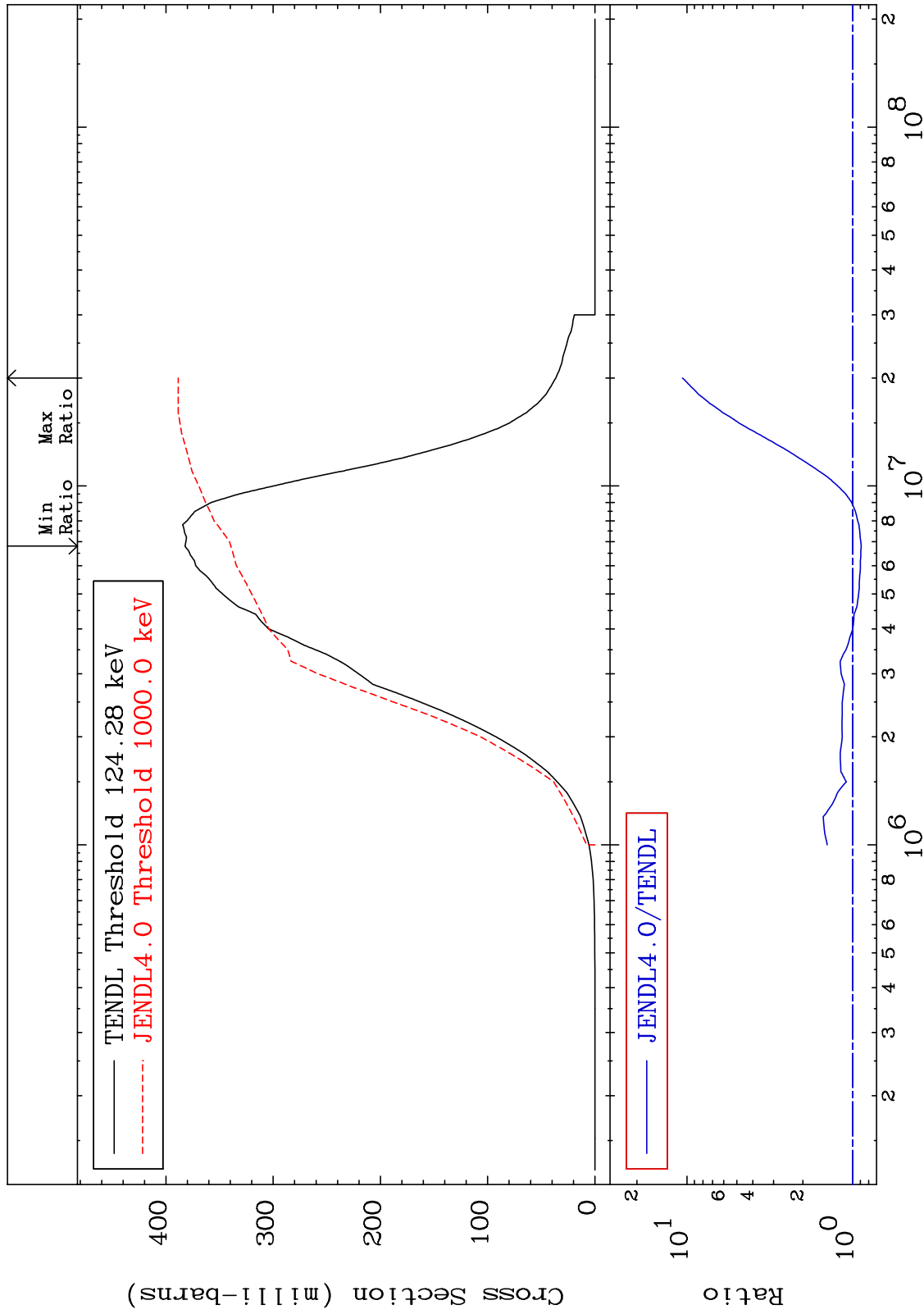
MAT 1925

(n,p)

19-K -39

Cross Section

-11.23 To 963.5 %

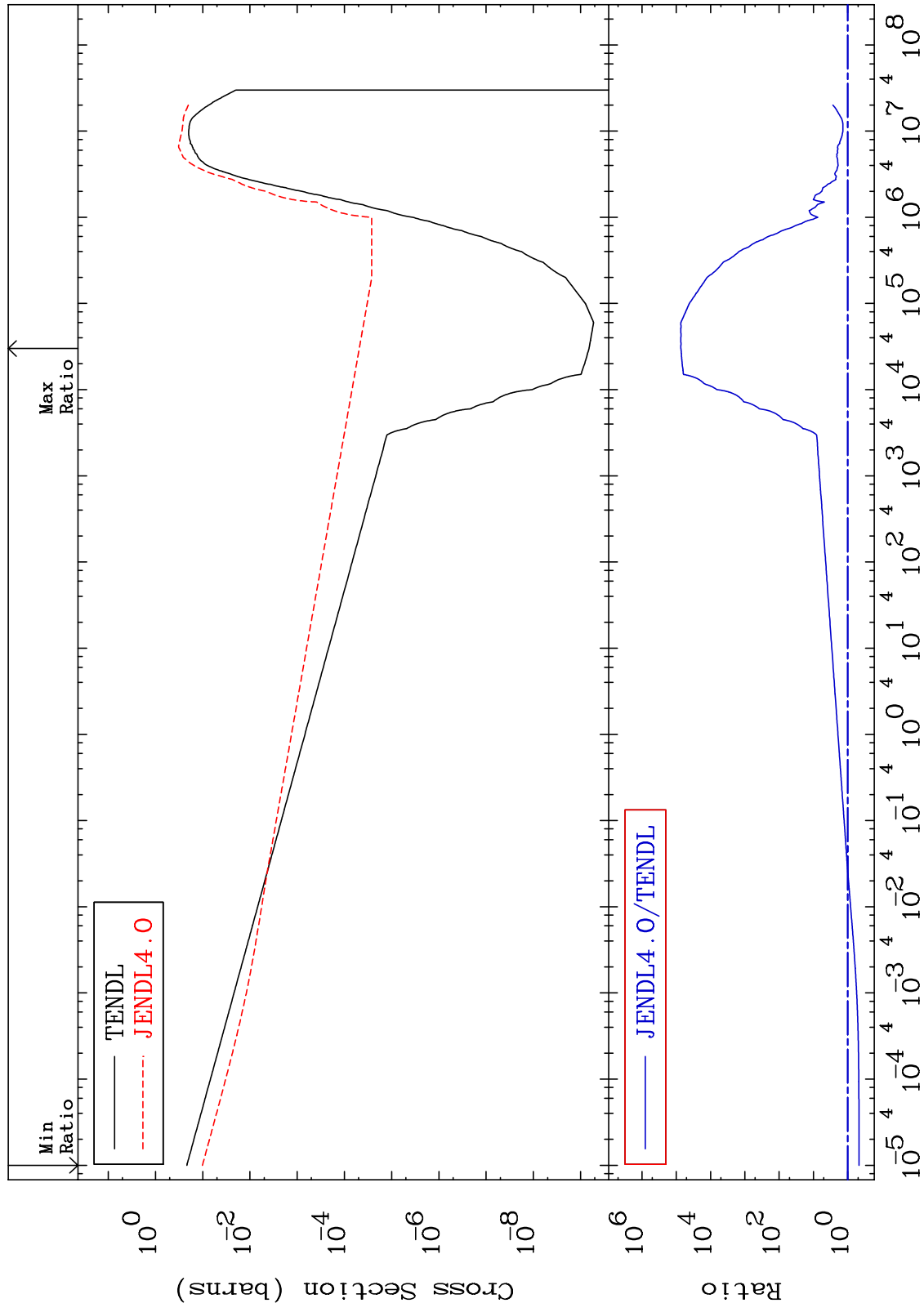


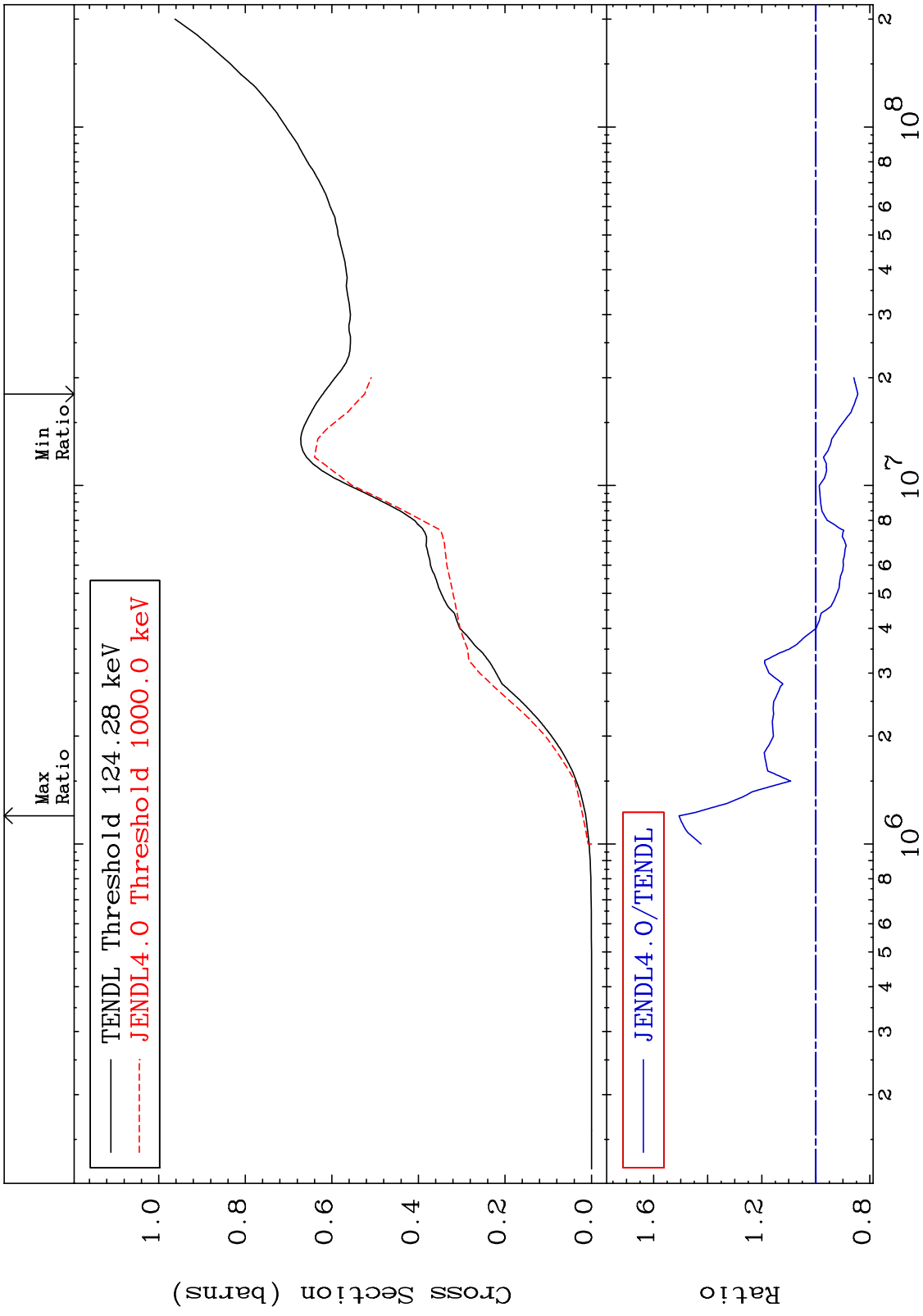
13

Incident Energy (eV)

19-K -39

MAT 1925 (n,α) Cross Section 19-K -39 -53.25 To 9999. %

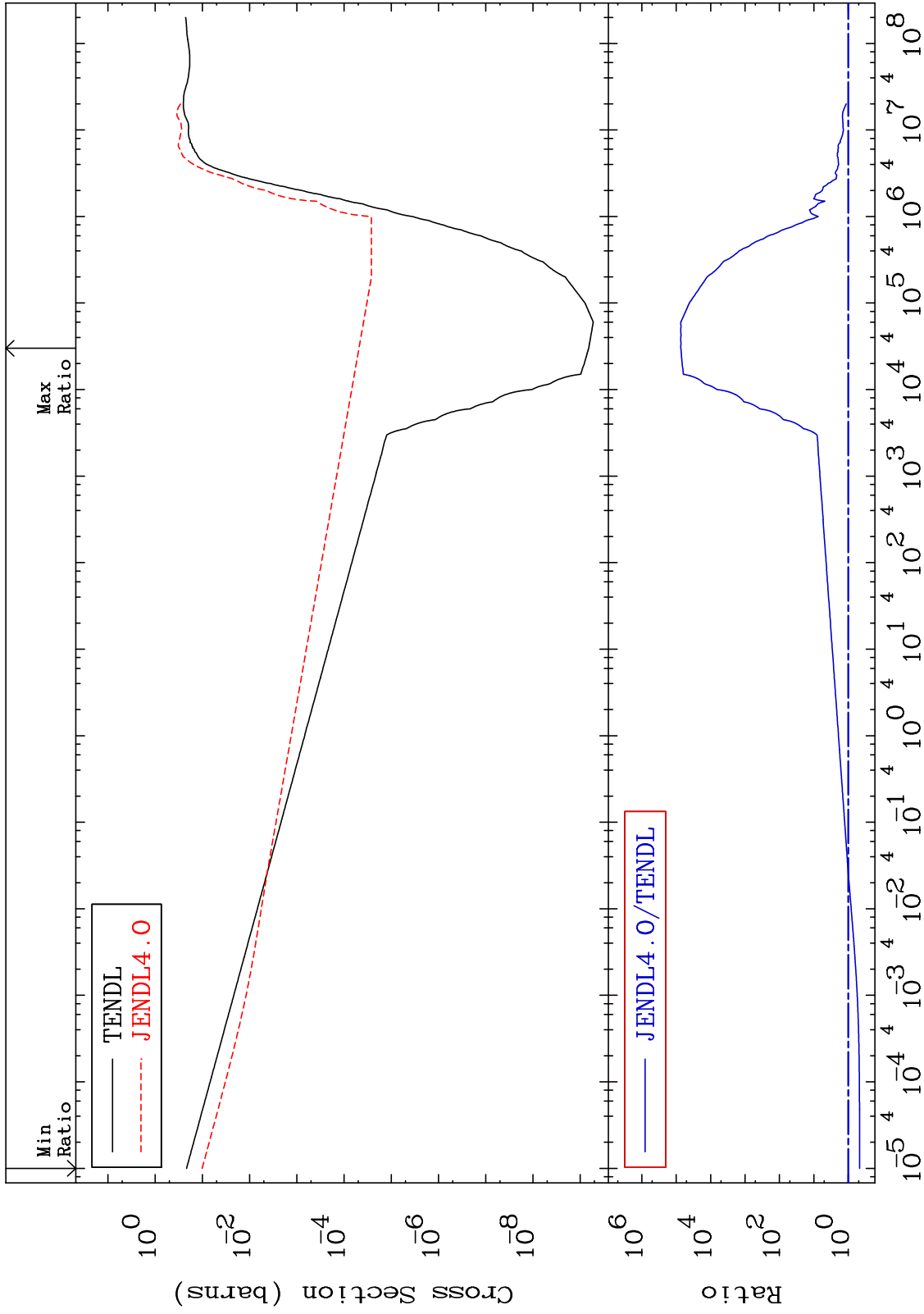




MAT 1925

He-4 Production
Cross Section

19-K -39
-53.25 To 9999. %

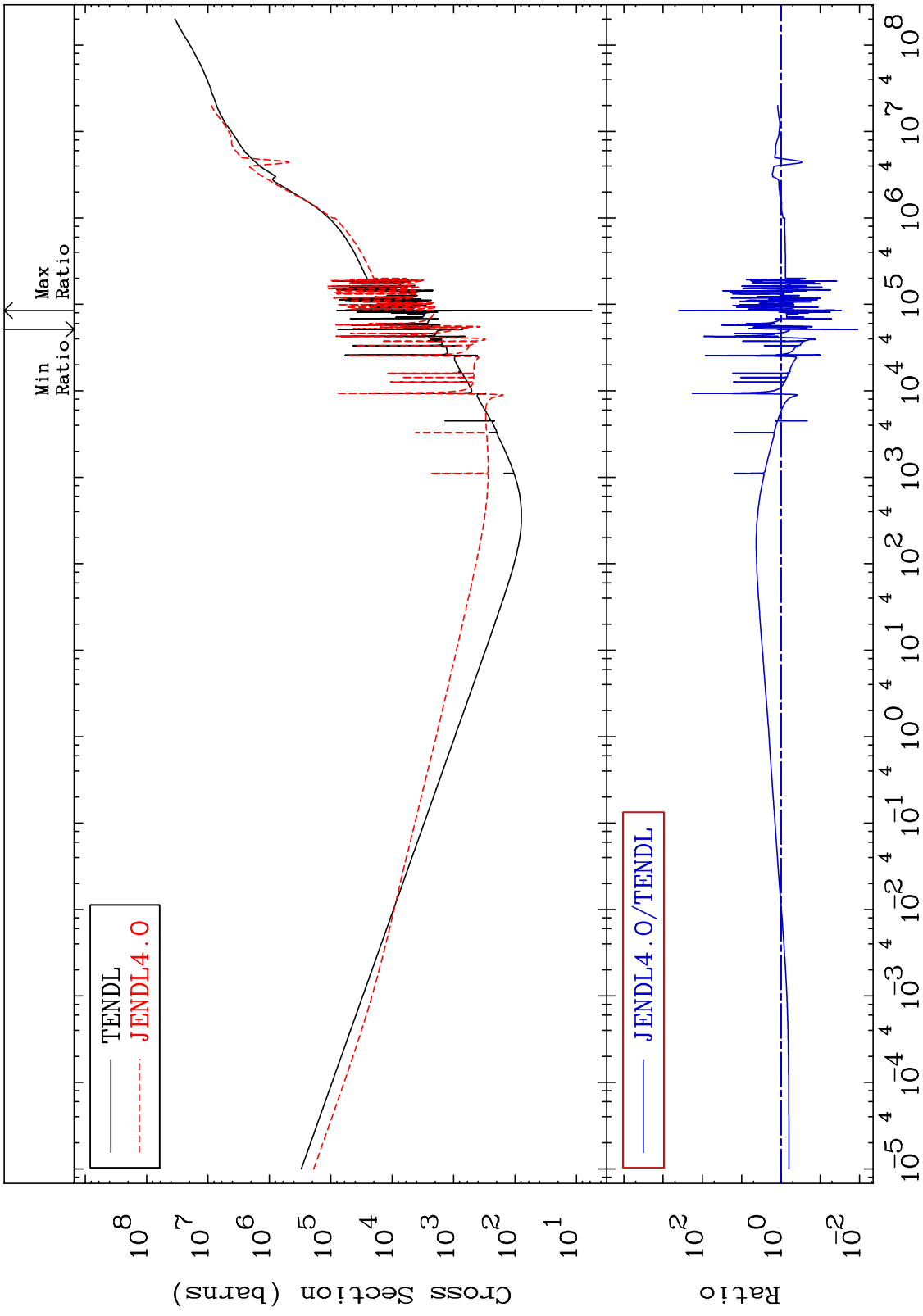


16

Incident Energy (eV)

19-K -39

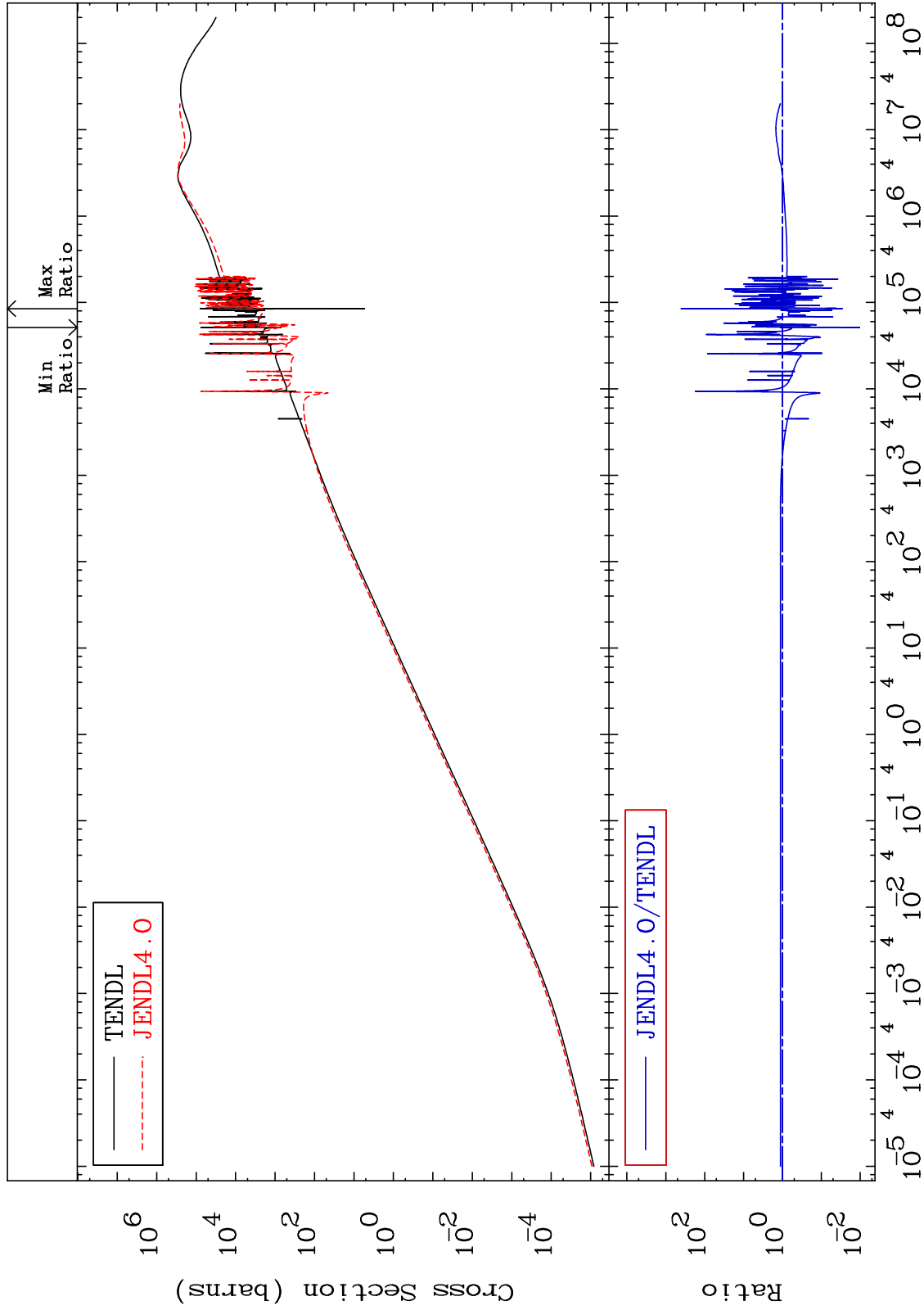
MAT 1925 Kerma total (eV-barns) Cross Section 19-K -39 -98.90 To 9999. %



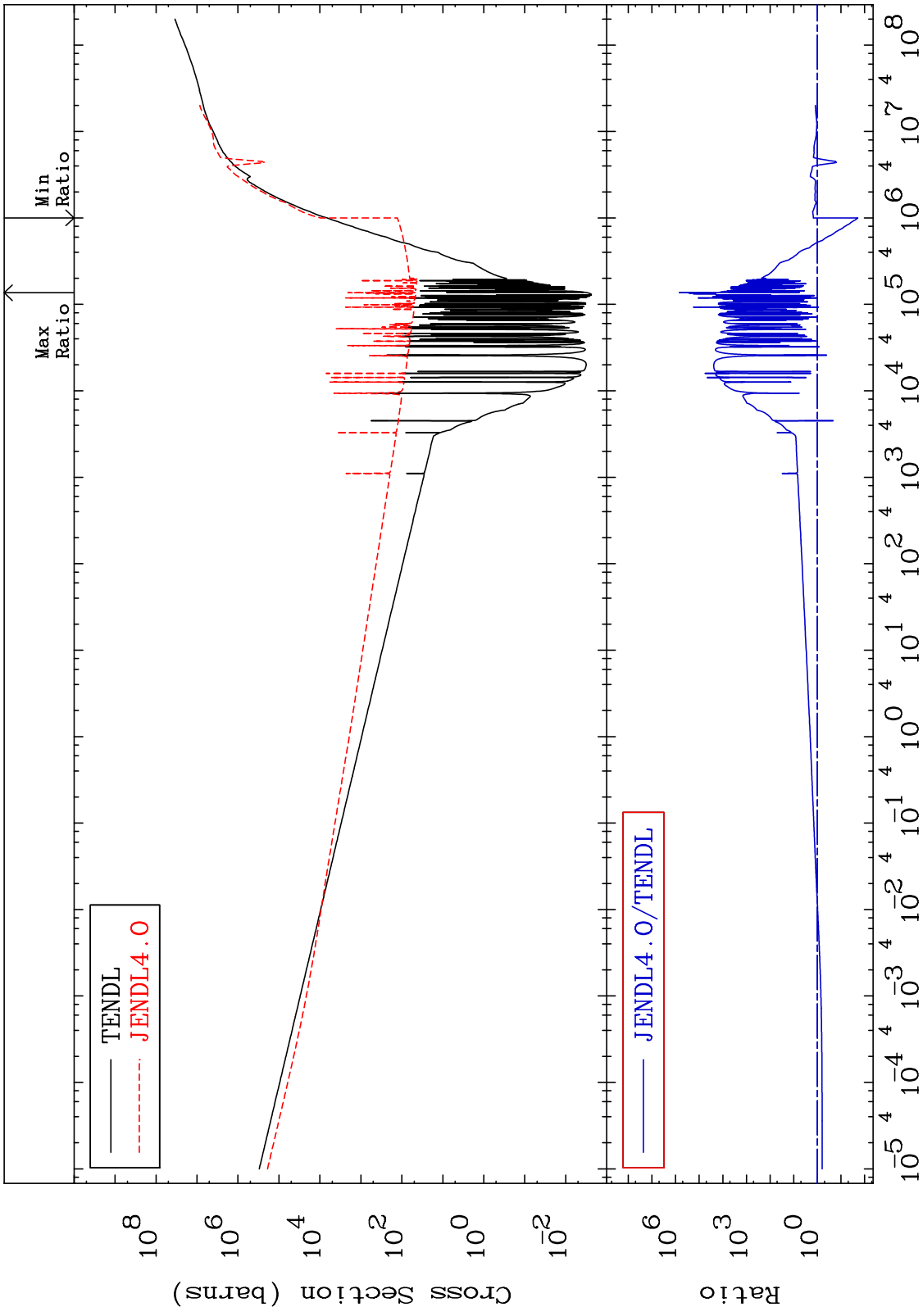
MAT 1925

Kerma elastic
Cross Section

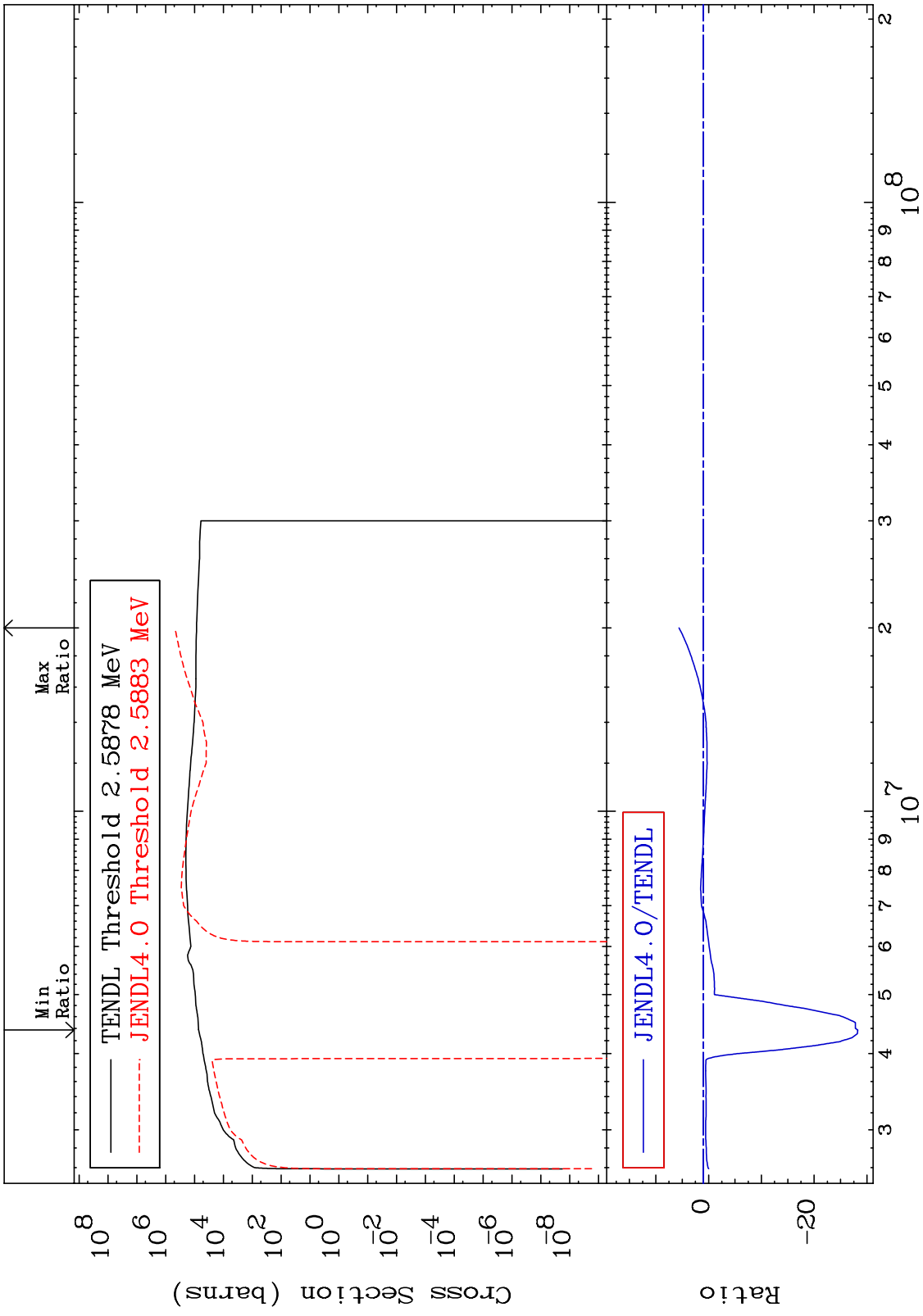
19-K -39
-98.97 To 9999. %



MAT 1925 Kerma non-elastic (all but mt2) 19-K -39
 Cross Section -98.06 To 9999. %

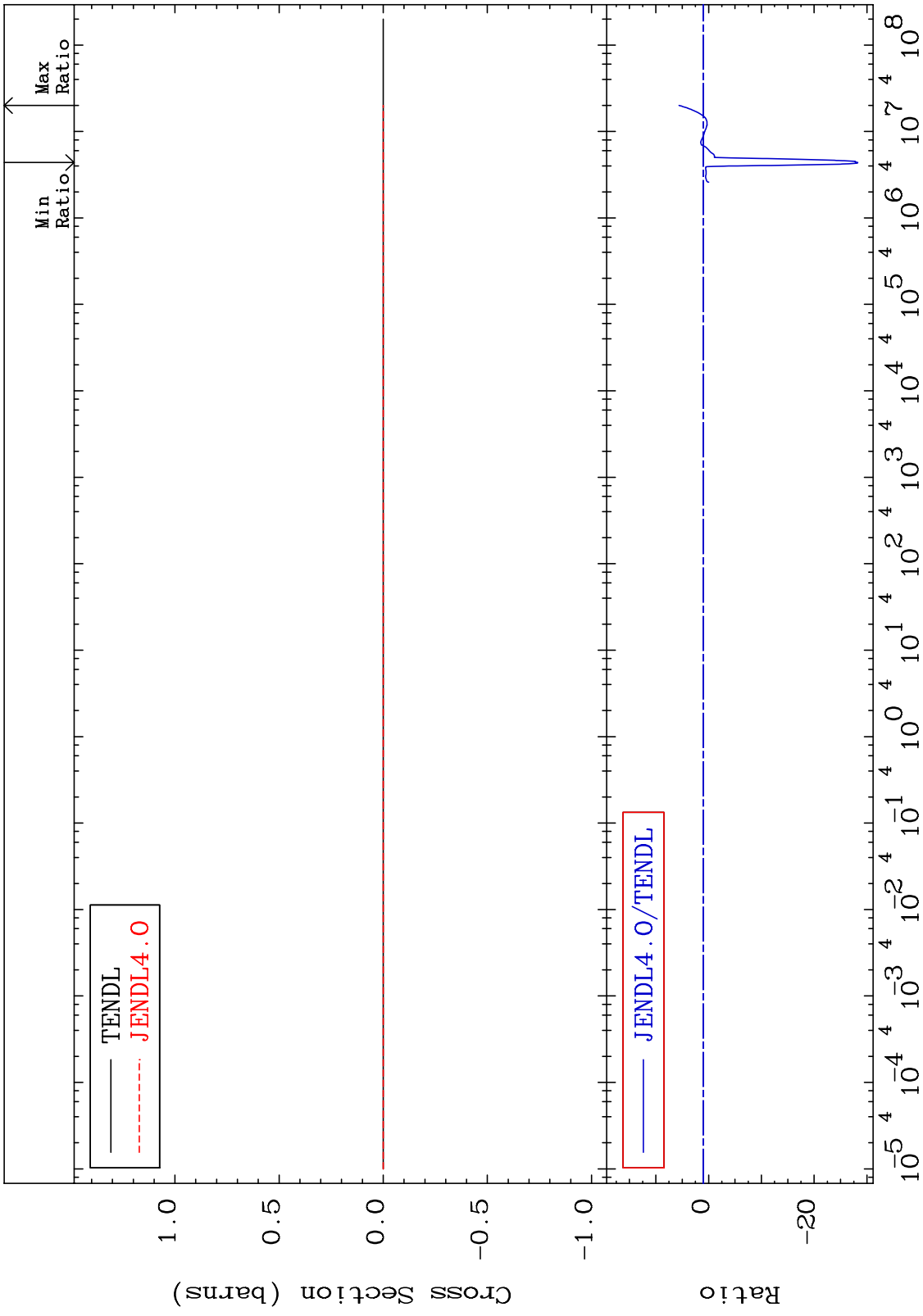


MAT 1925 Kerma inelastic (mt51-91) 19-K -39
 -2927. To 459.9 %
 Cross Section

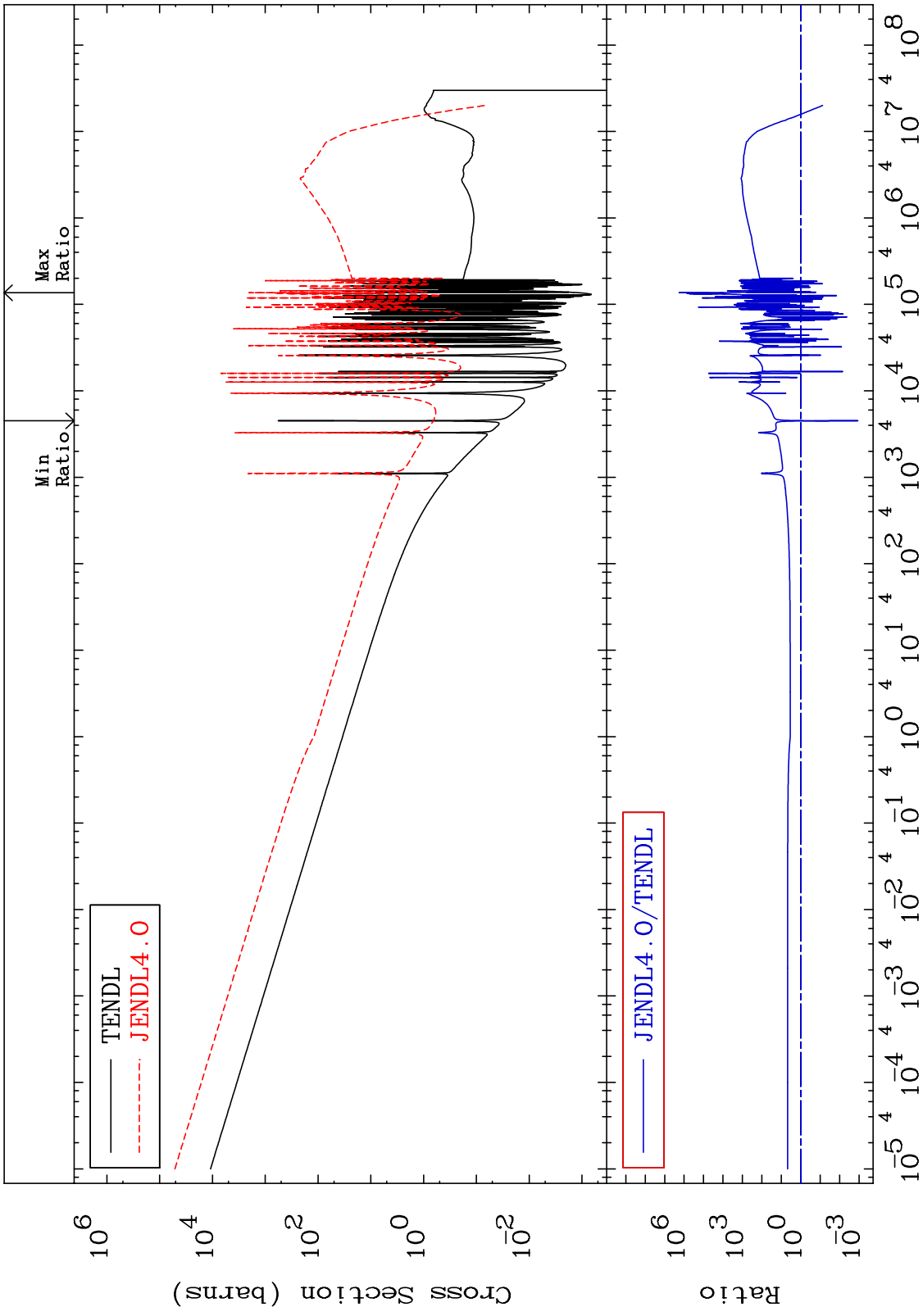


20 Incident Energy (eV) 19-K -39

MAT 1925 Kerma fission (mt18 or mt19-20-21-38) 19-K -39
 Cross Section -2927. To 459.9 %



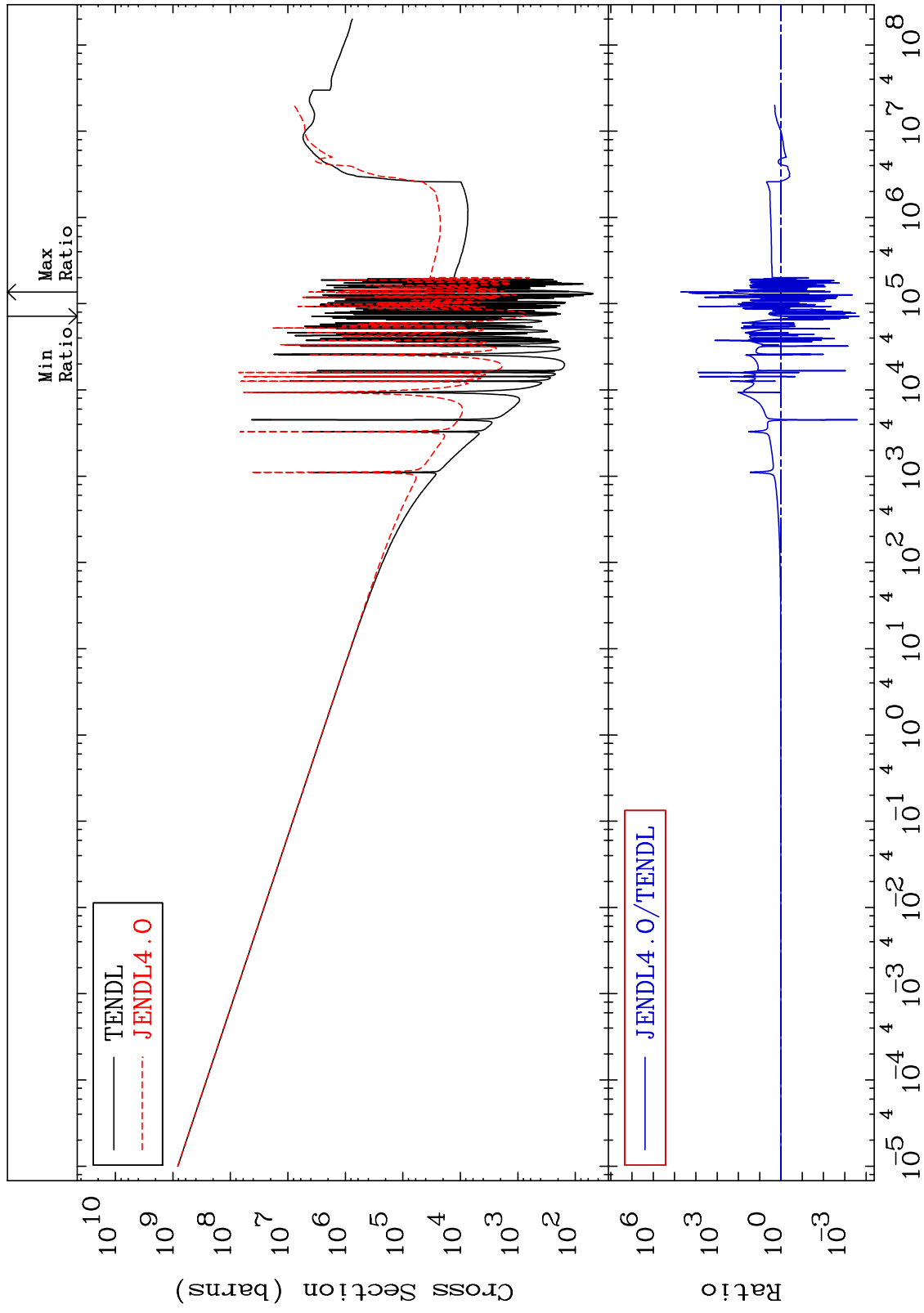
MAT 1925 Kerma capture (mt102) 19-K -39
 Cross Section -99.88 To 9999. %



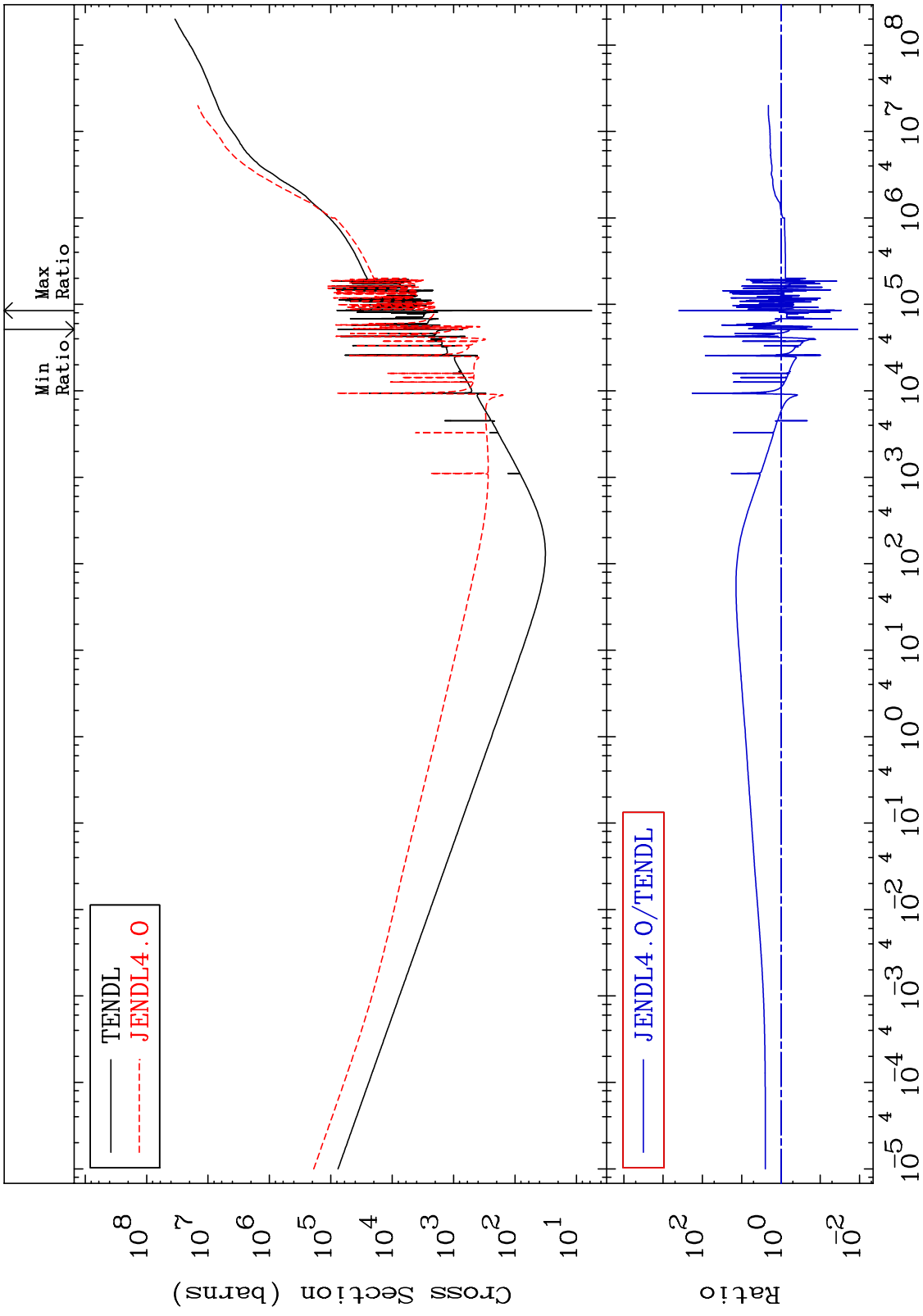
MAT 1925

Total photon (eV-barns)
Cross Section

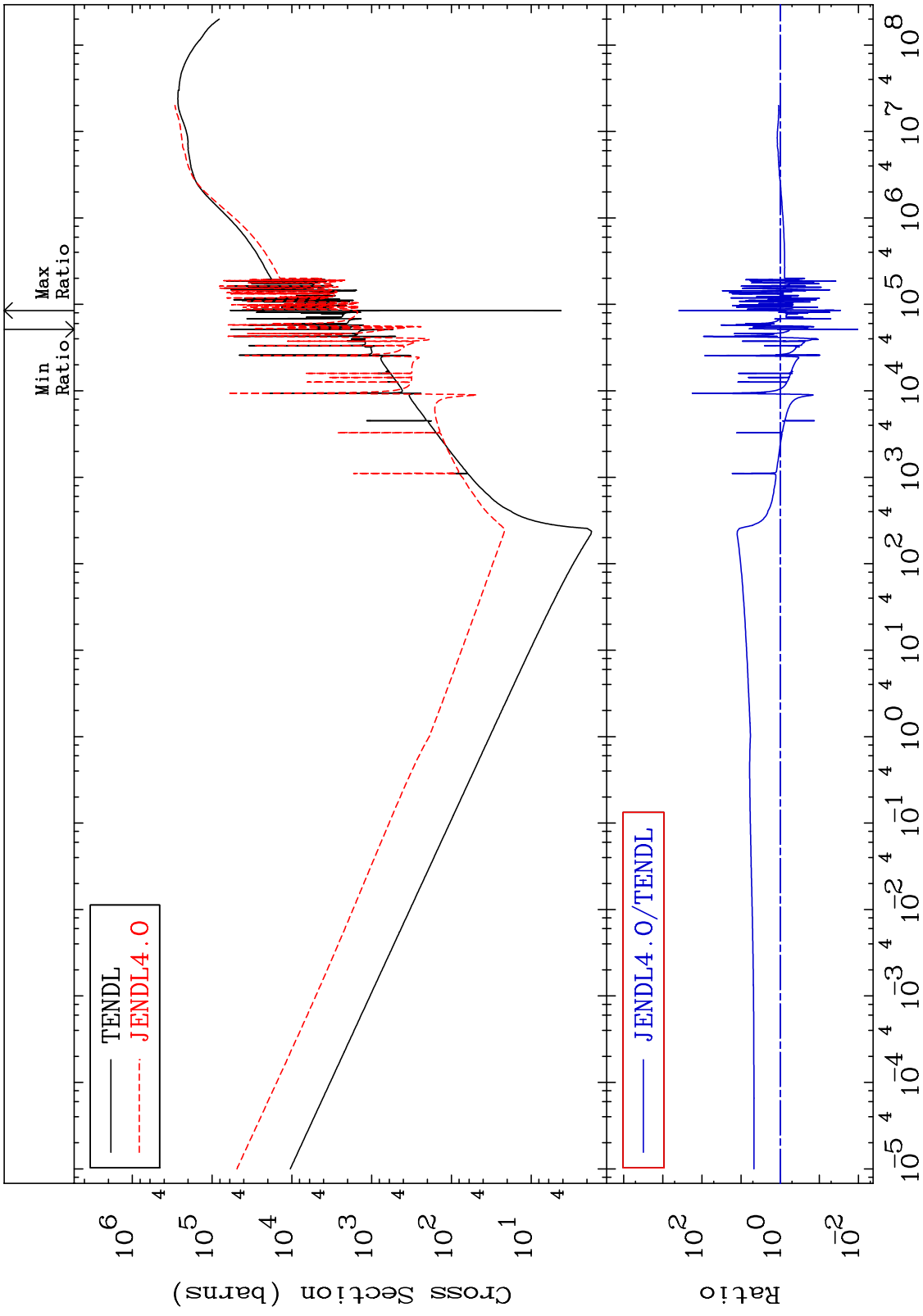
19-K -39
-99.98 To 9999. %



MAT 1925 Total kinematic kerma (high limit) 19-K -39
 Cross Section -98.90 To 9999. %



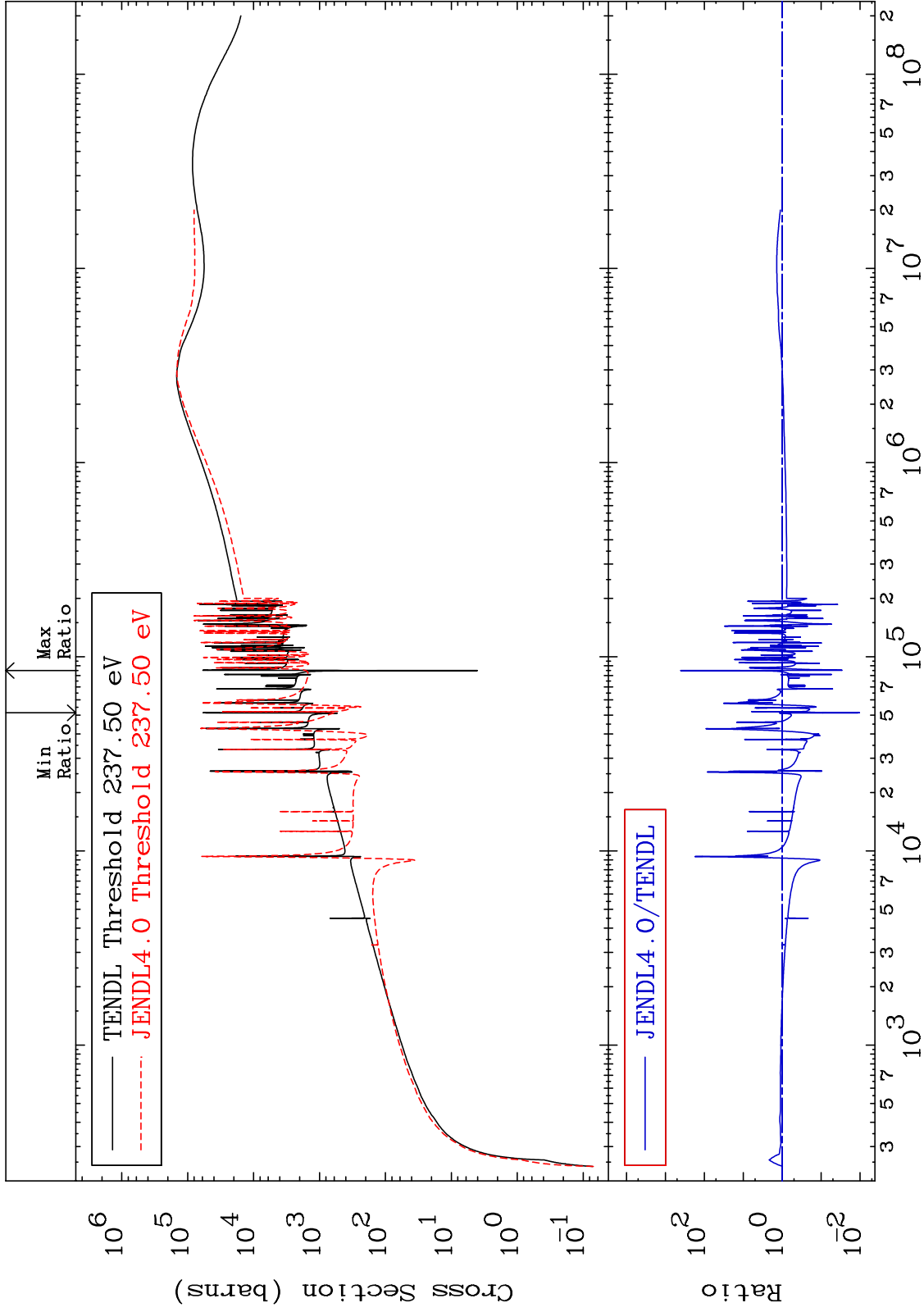
MAT 1925 Dpa total (eV-barns) 19-K -39
 Cross Section -98.97 To 9999. %



MAT 1925

Dpa elastic (mt2)
Cross Section

19-K -39
-98.97 To 9999. %

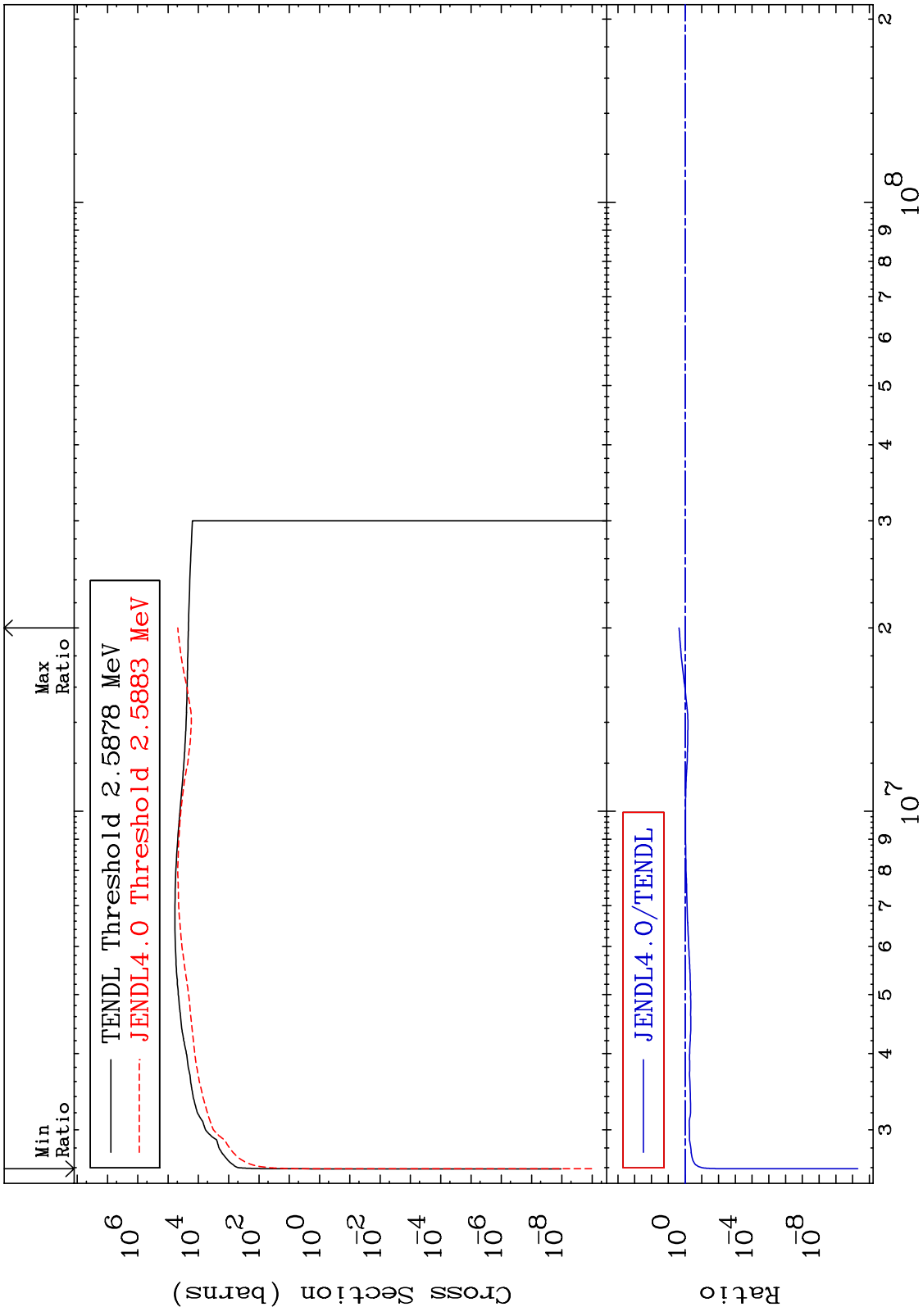


26

Incident Energy (eV)

19-K -39

MAT 1925 Dpa inelastic (mt51-91) 19-K -39
 Cross Section -100.0 To 126.3 %

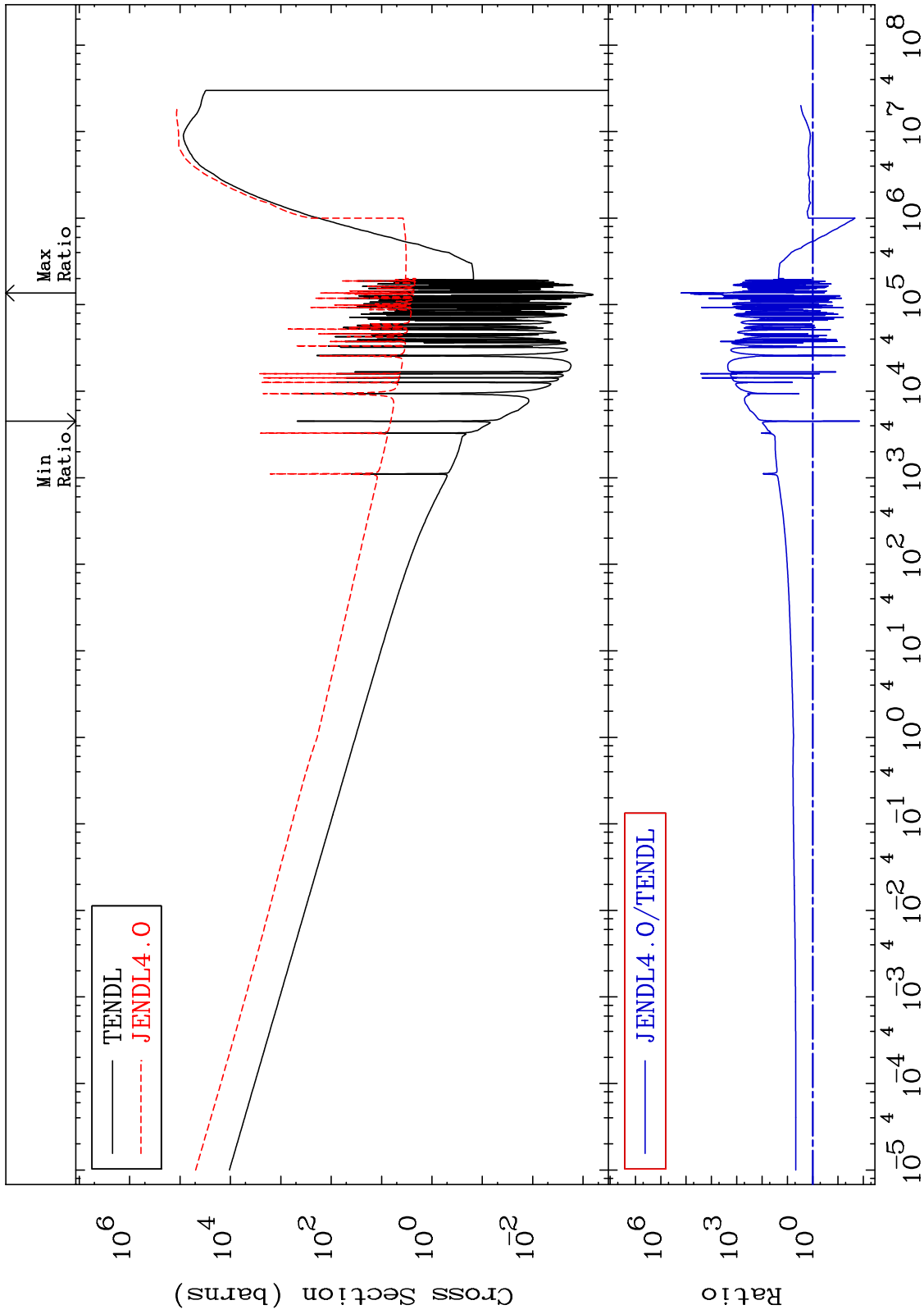


27 Incident Energy (eV) 19-K -39

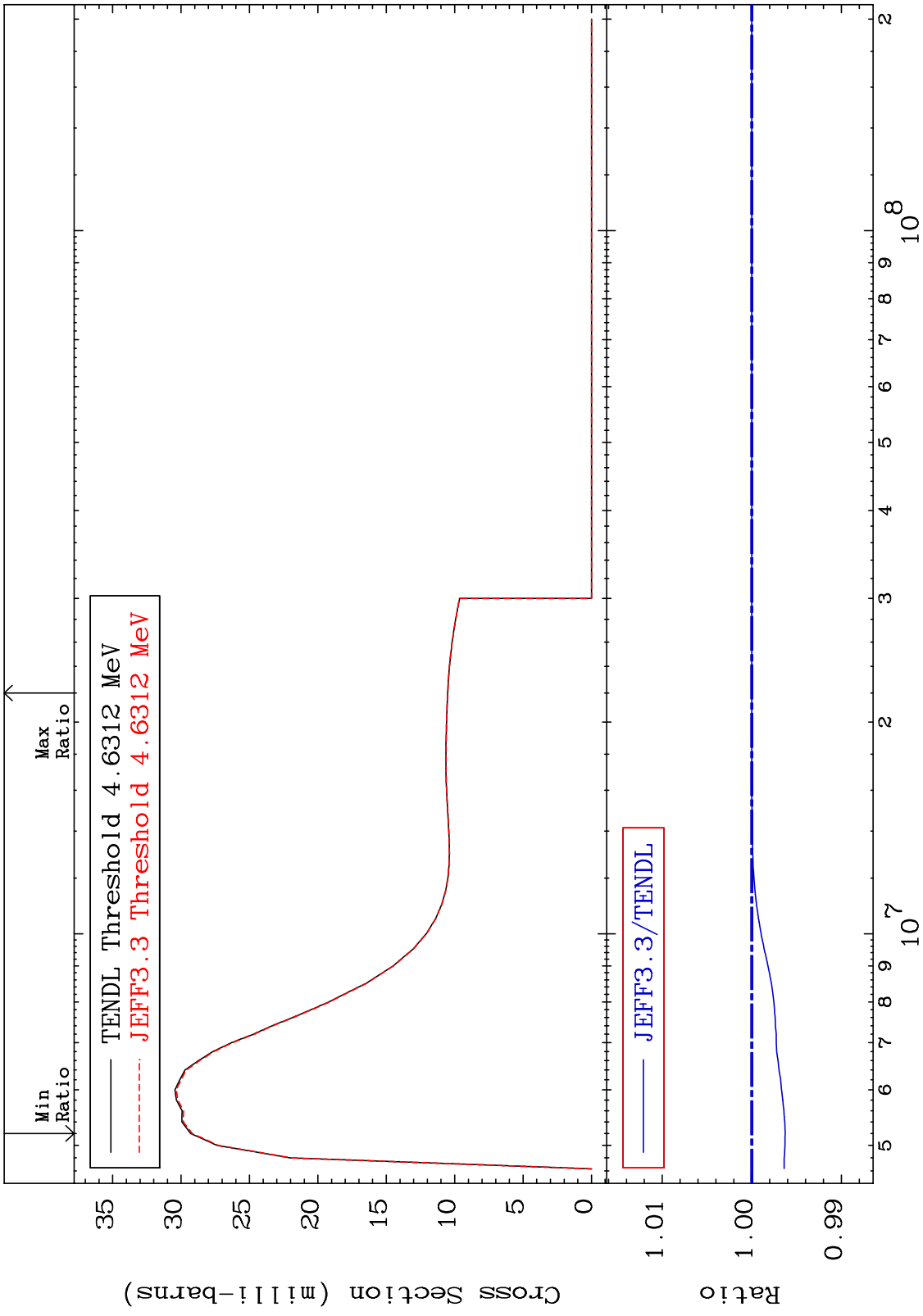
MAT 1925

Dpa disappearance (mt102 -120)
Cross Section

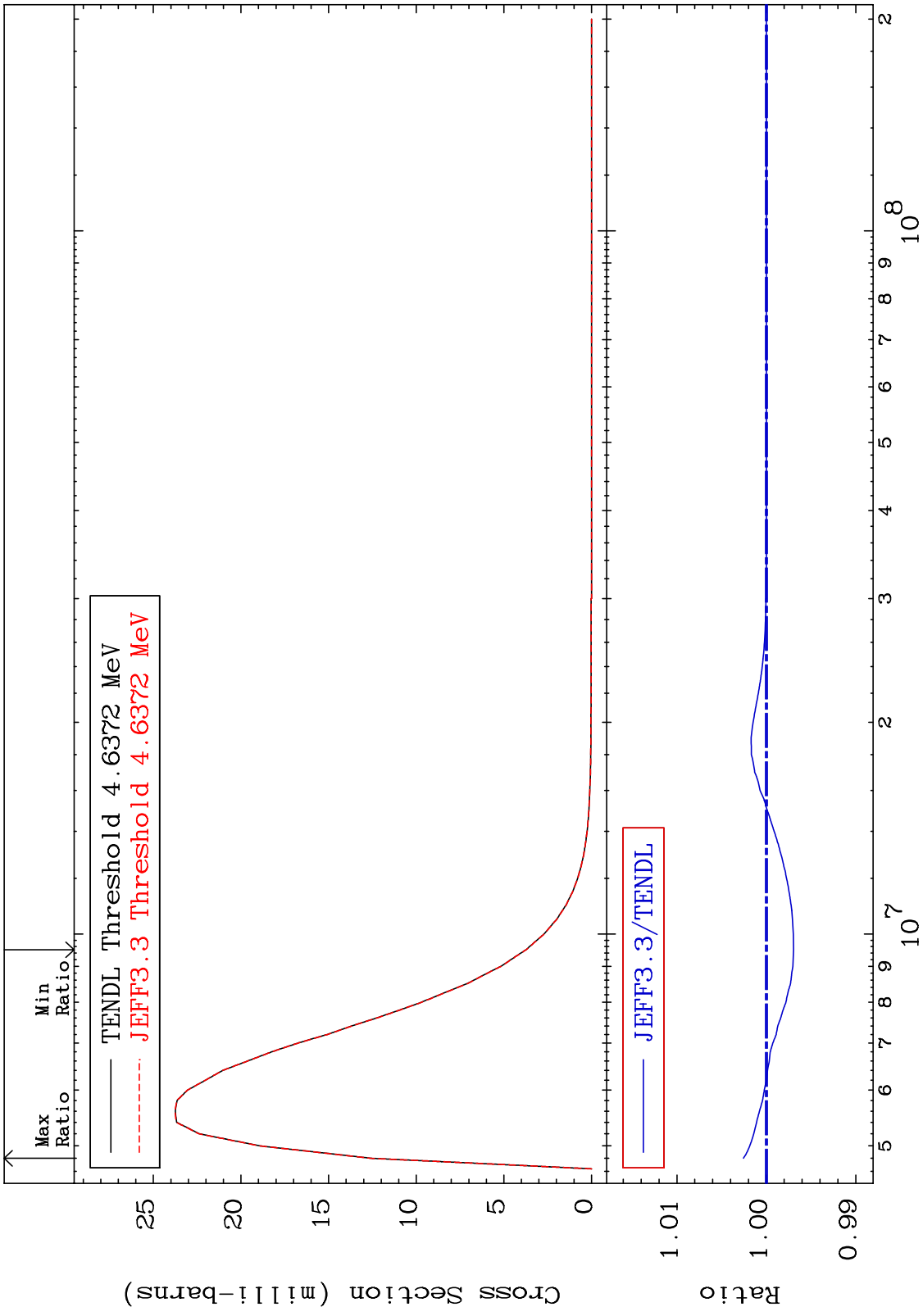
19-K -39
-98.60 To 9999. %



MAT 1925 MT= 62 (n,n') Level Cross Section 19-K -39
 -0.373 To 0.000 %

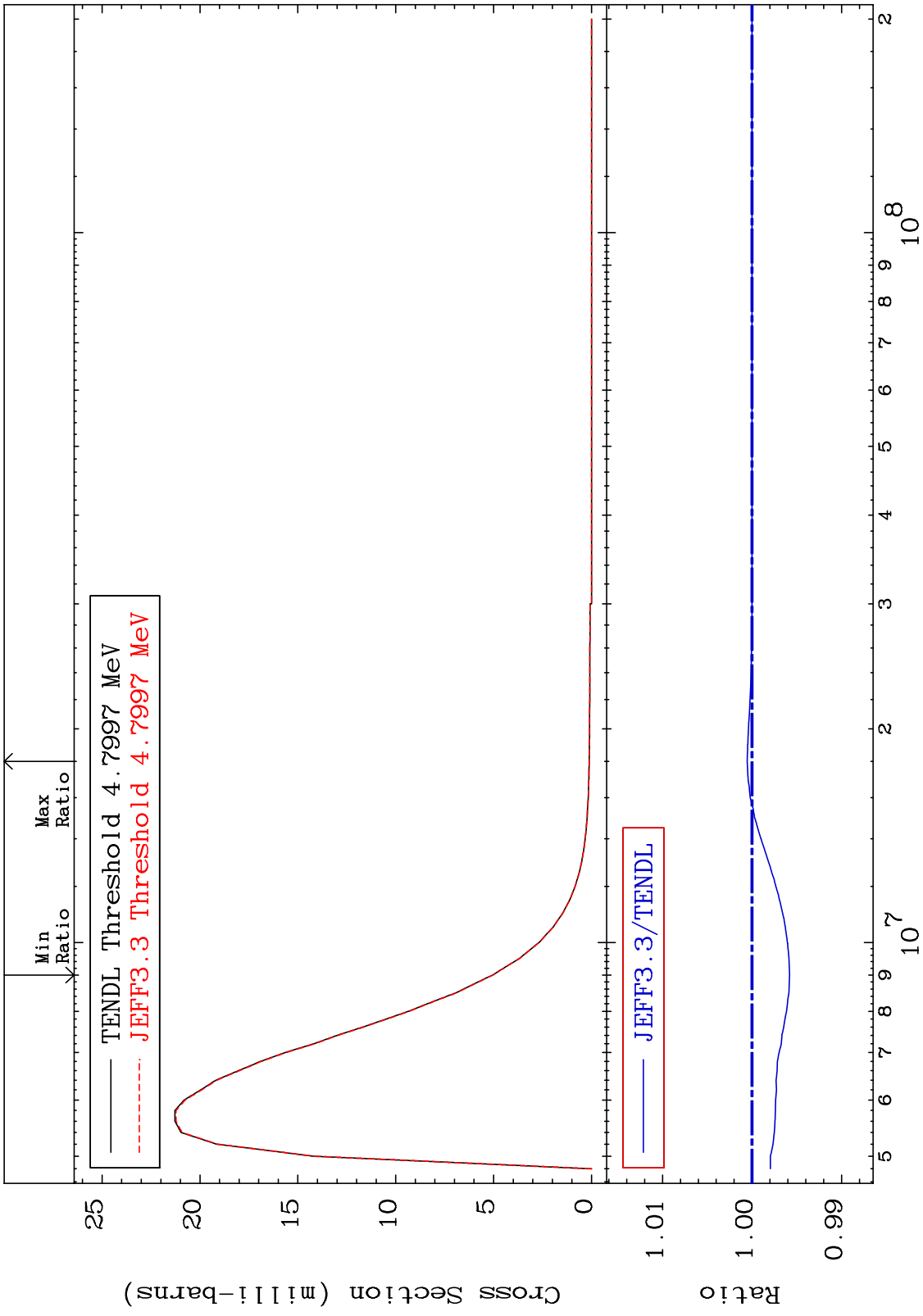


MAT 1925 MT= 63 (n,n') Level Cross Section 19-K -39
 -0.304 To 0.257 %



30 19-K -39

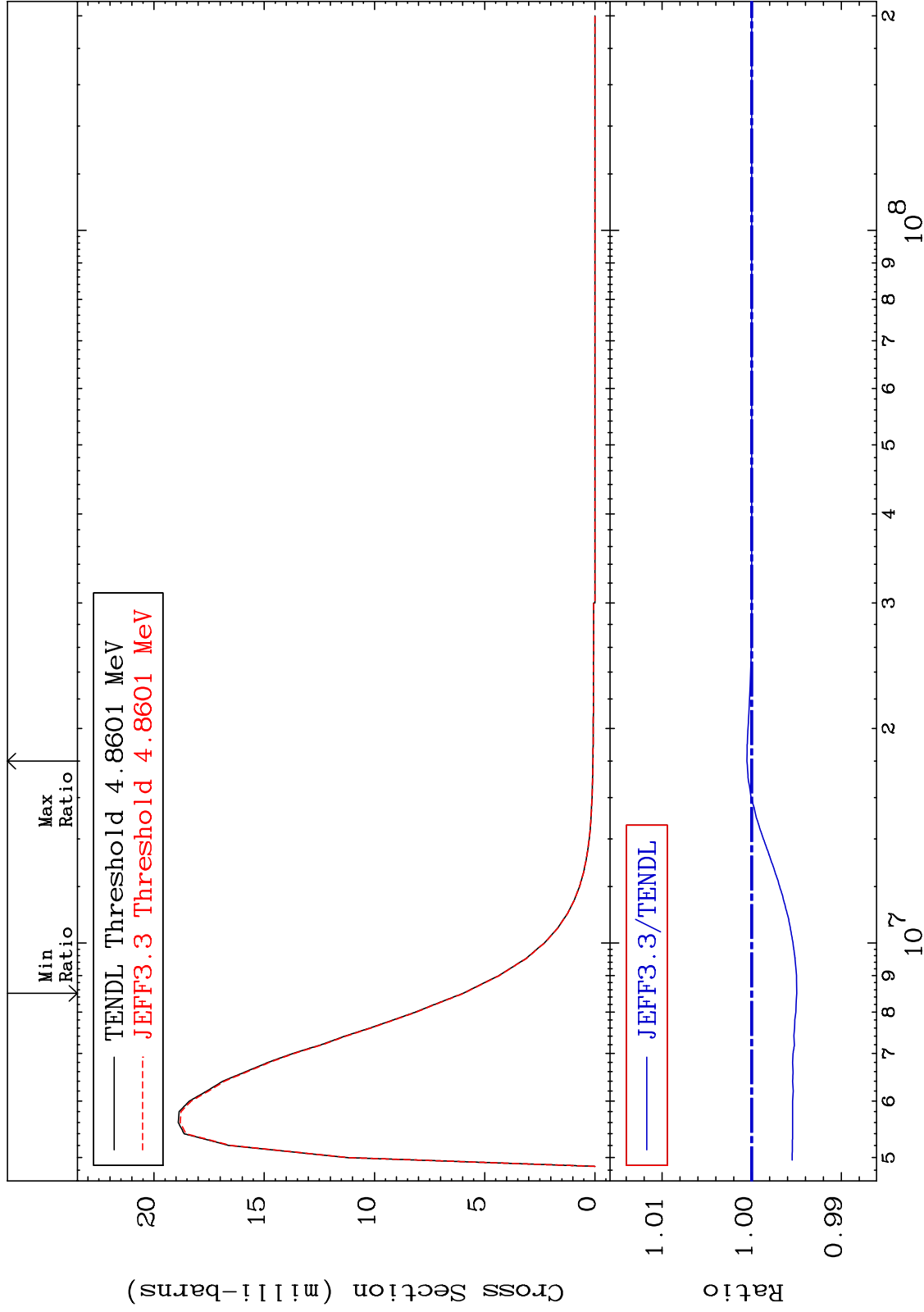
MAT 1925 MT= 64 (n,n') Level Cross Section 19-K -39
 -0.419 To 0.054 %



MAT 1925

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

19-K -39
-0.502 To 0.053 %



32

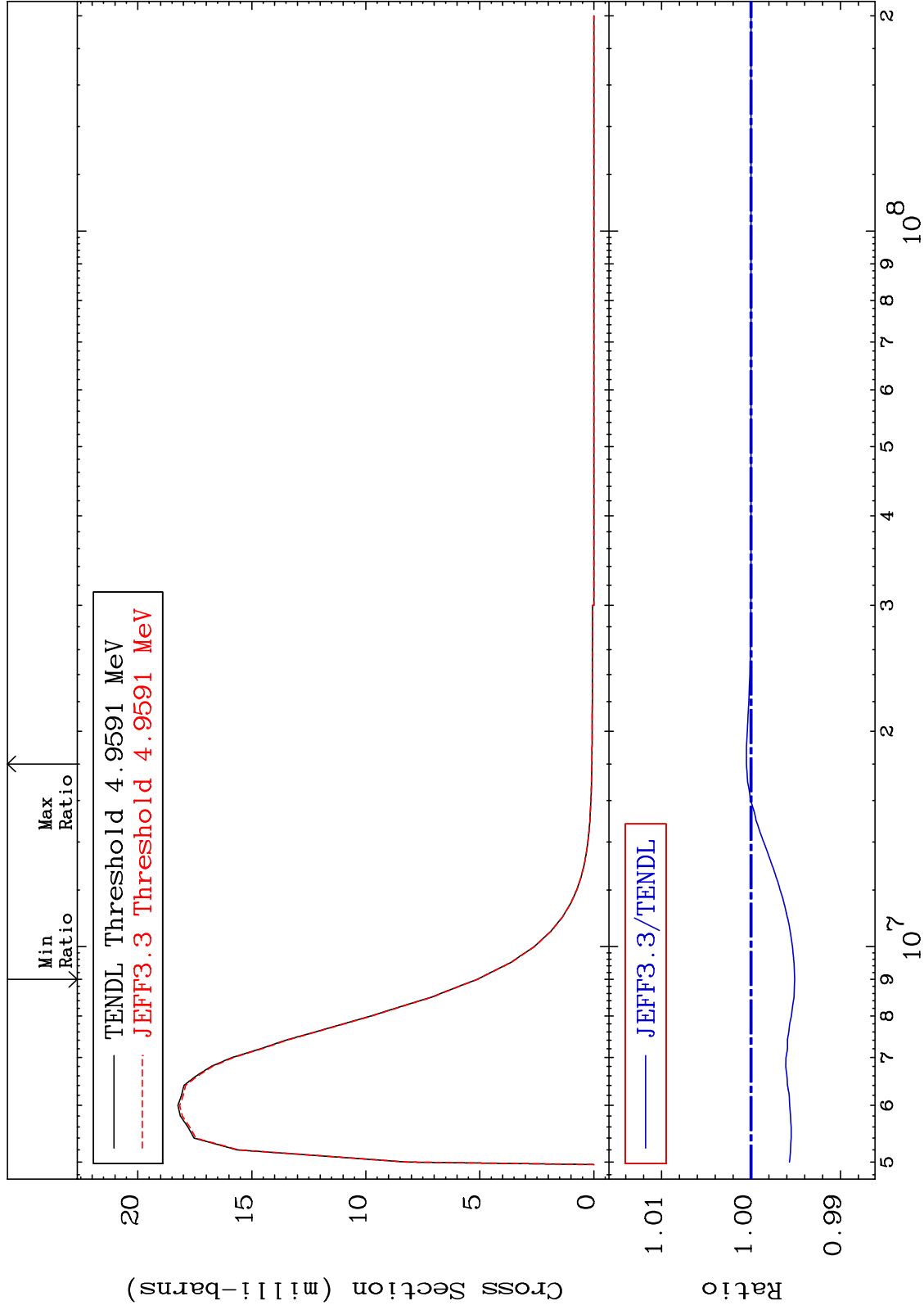
Incident Energy (eV)

19-K -39

MAT 1925

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

19-K -39
-0.488 To 0.052 %



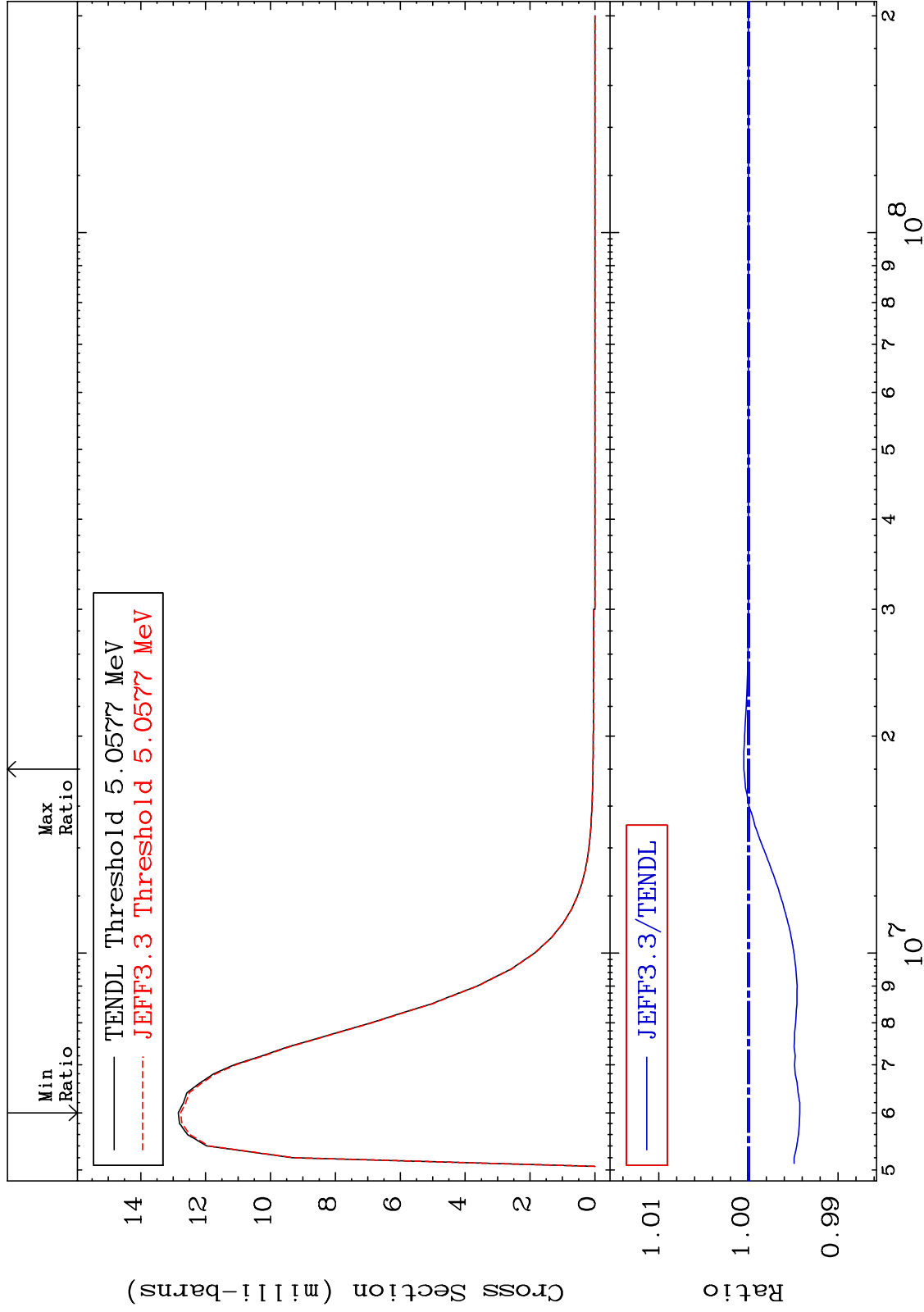
33

19-K -39

MAT 1925

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

19-K -39
-0.573 To 0.052 %



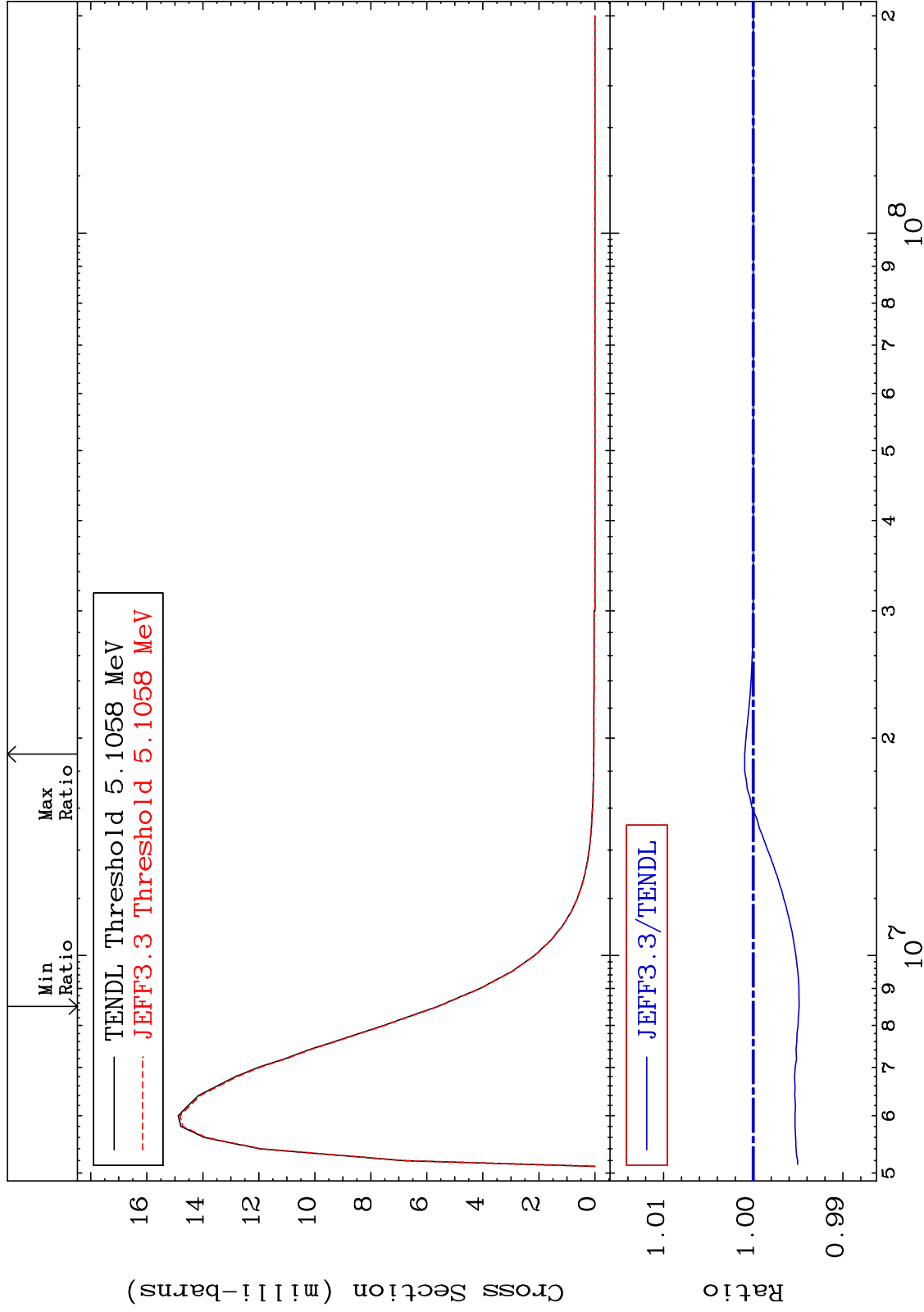
34

19-K -39

MAT 1925

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

19-K -39
-0.511 To 0.096 %



35

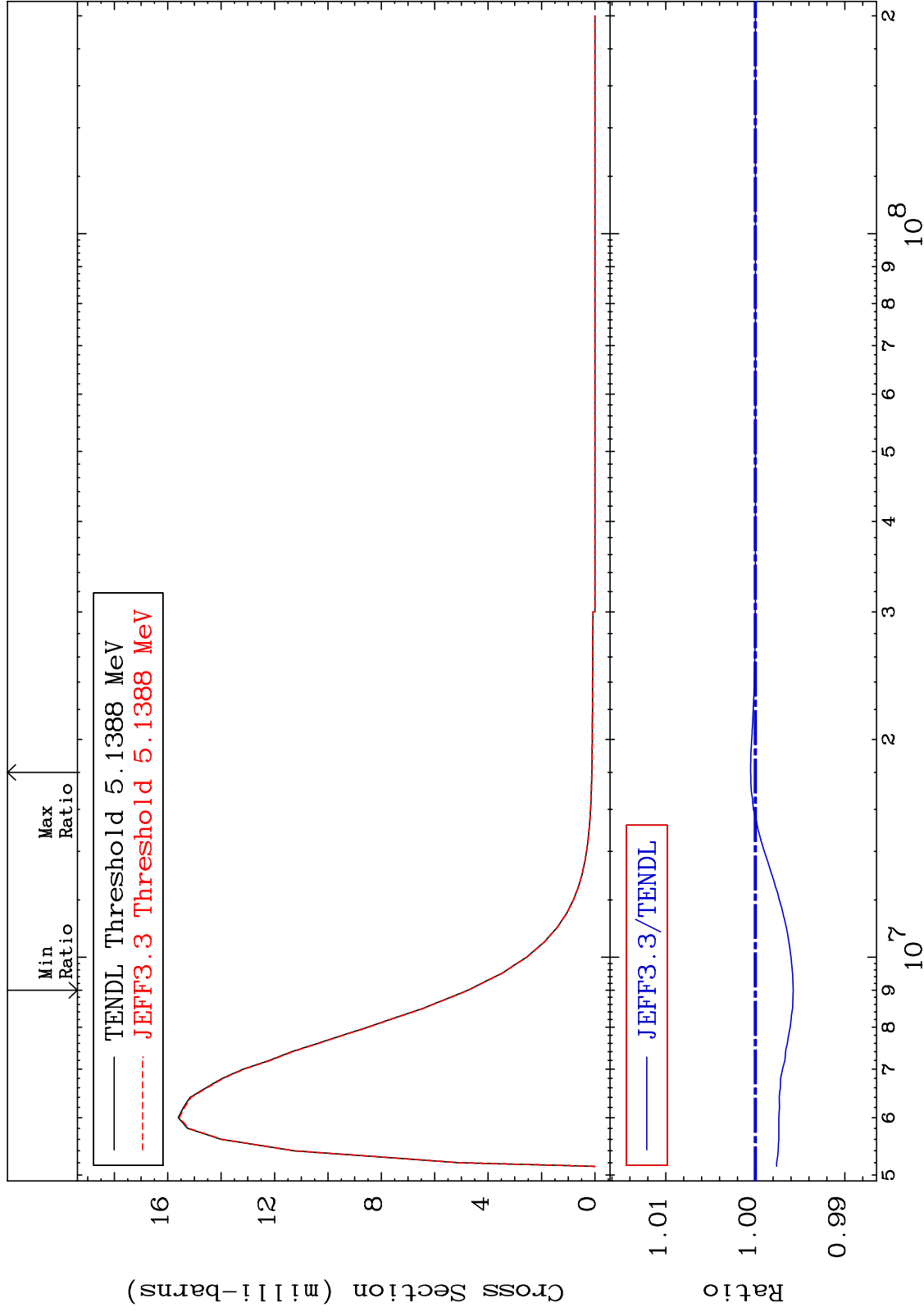
Incident Energy (eV)

19-K -39

MAT 1925

MT= 69 (n,n') Level
Cross Section

19-K -39
-0.423 To 0.053 %

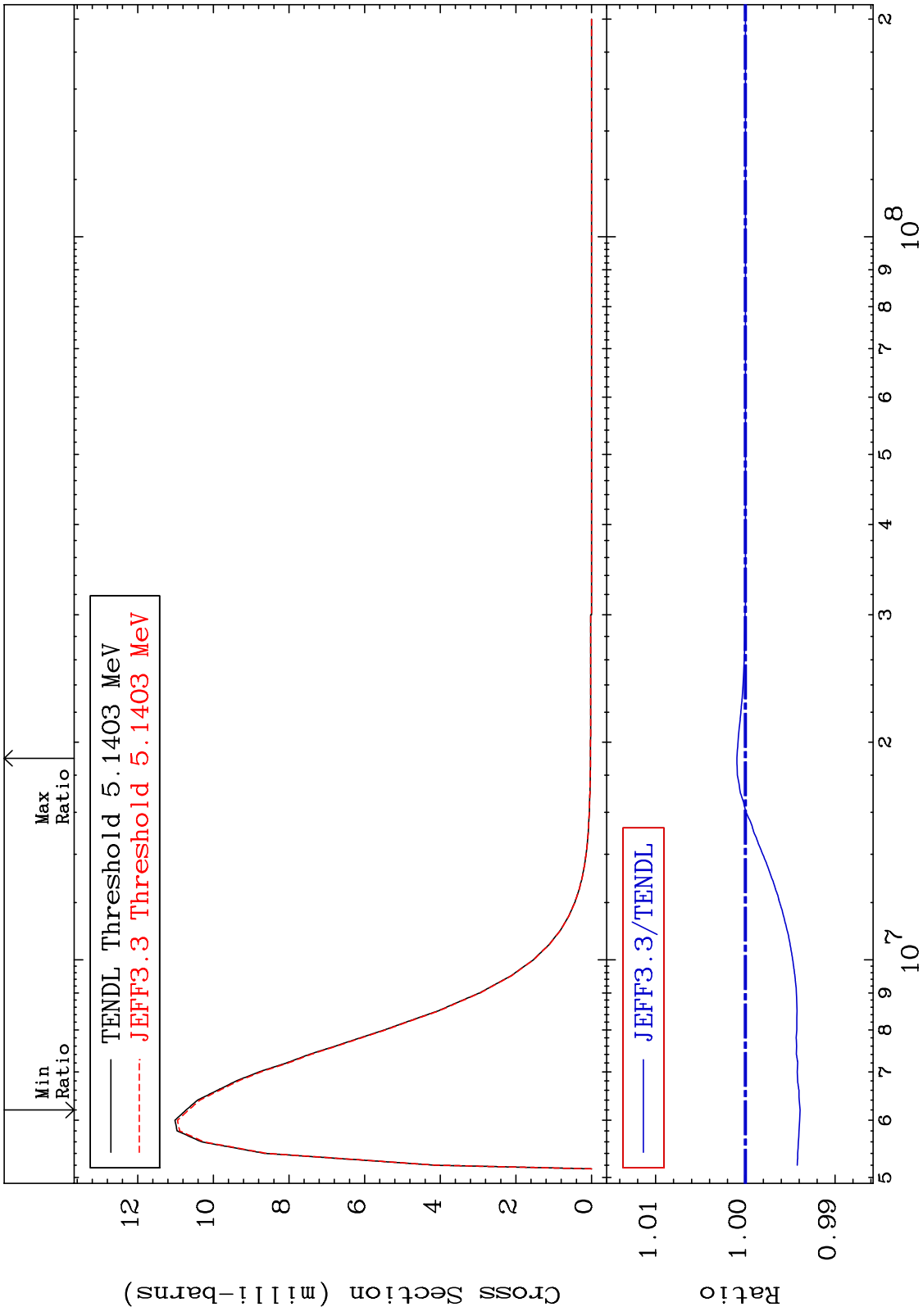


36

Incident Energy (eV)

19-K -39

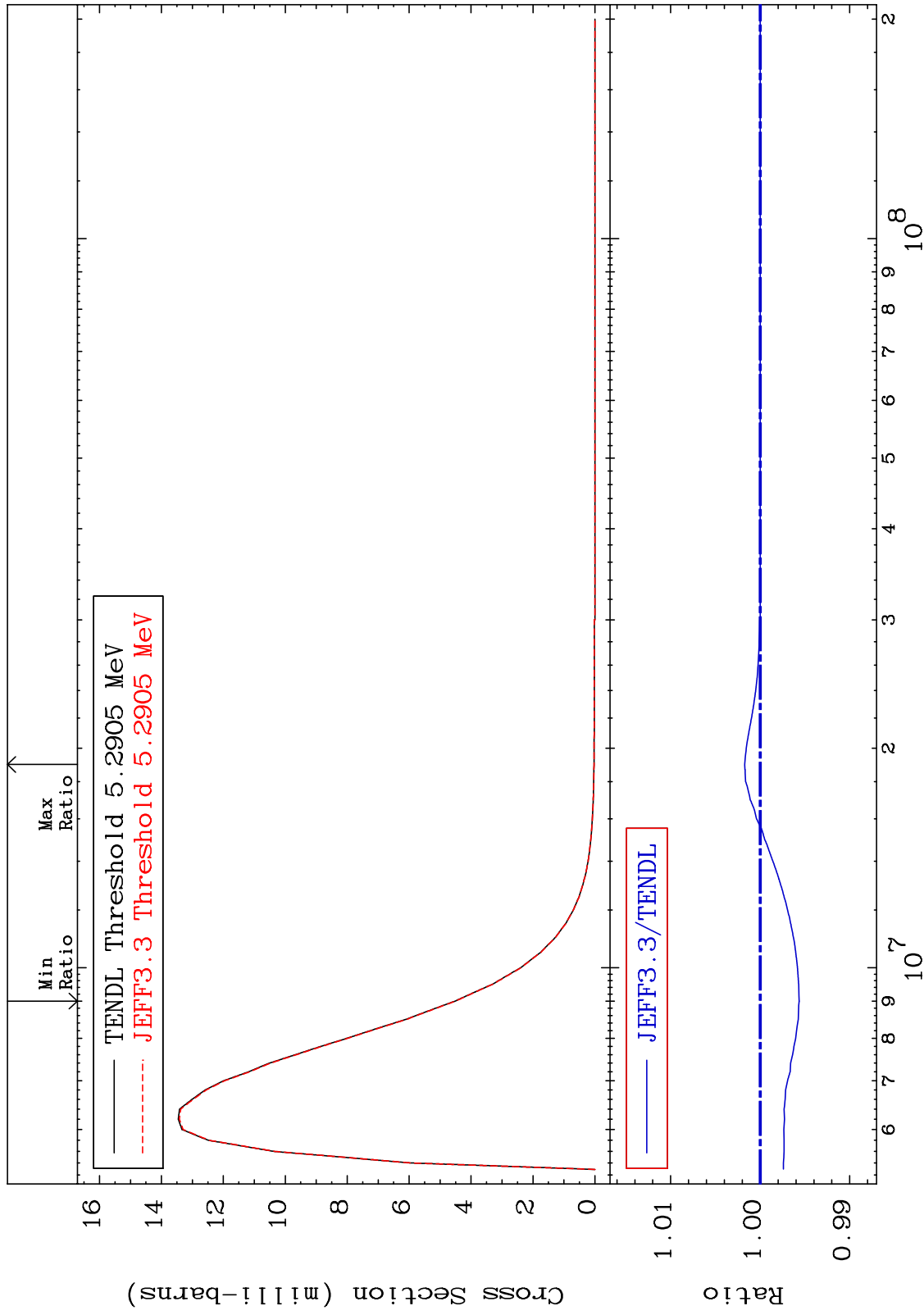
MAT 1925 MT= 70 (n,n') Level Cross Section 19-K -39
 -0.610 To 0.094 %



MAT 1925

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

19-K -39
-0.434 To 0.173 %

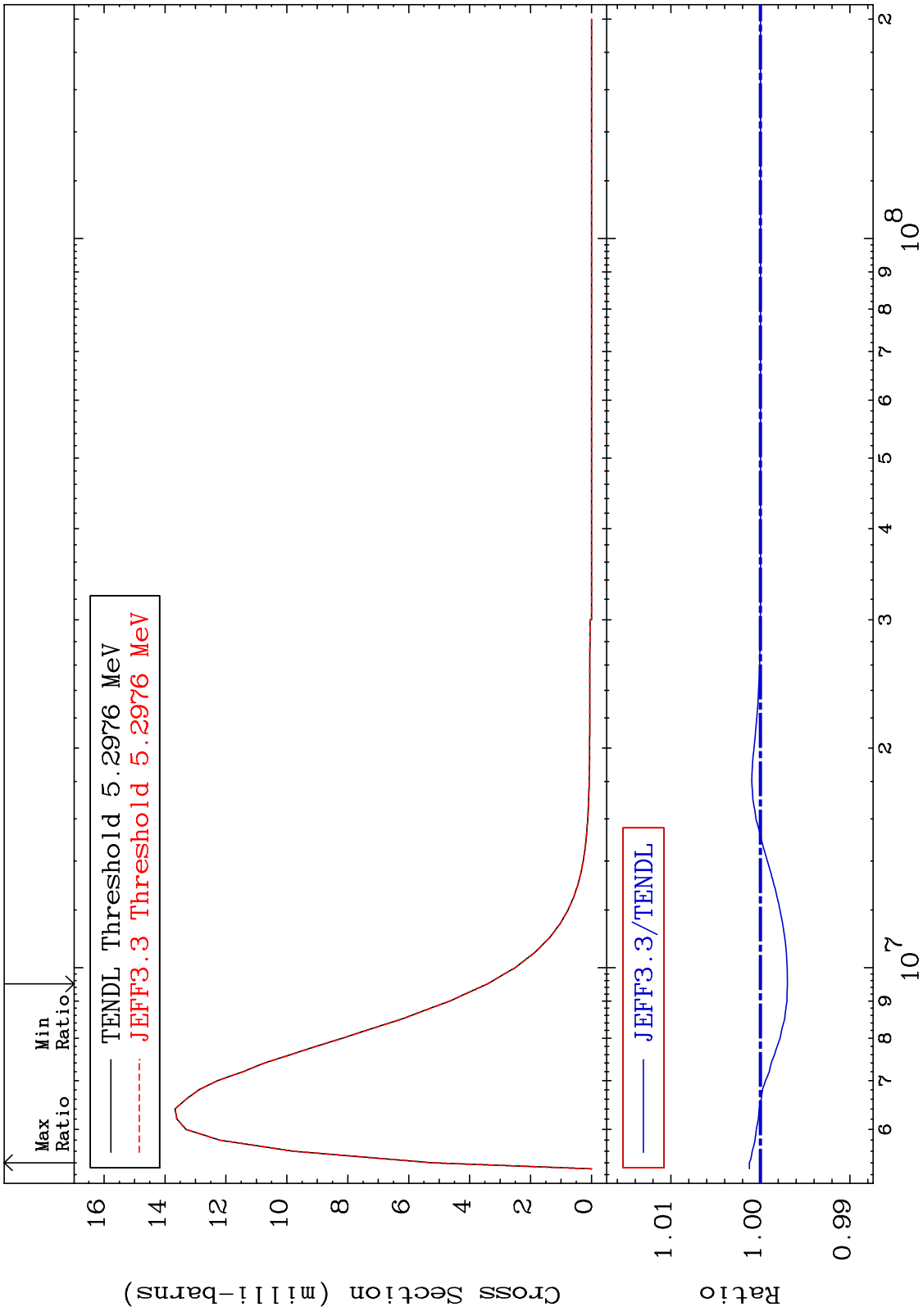


38

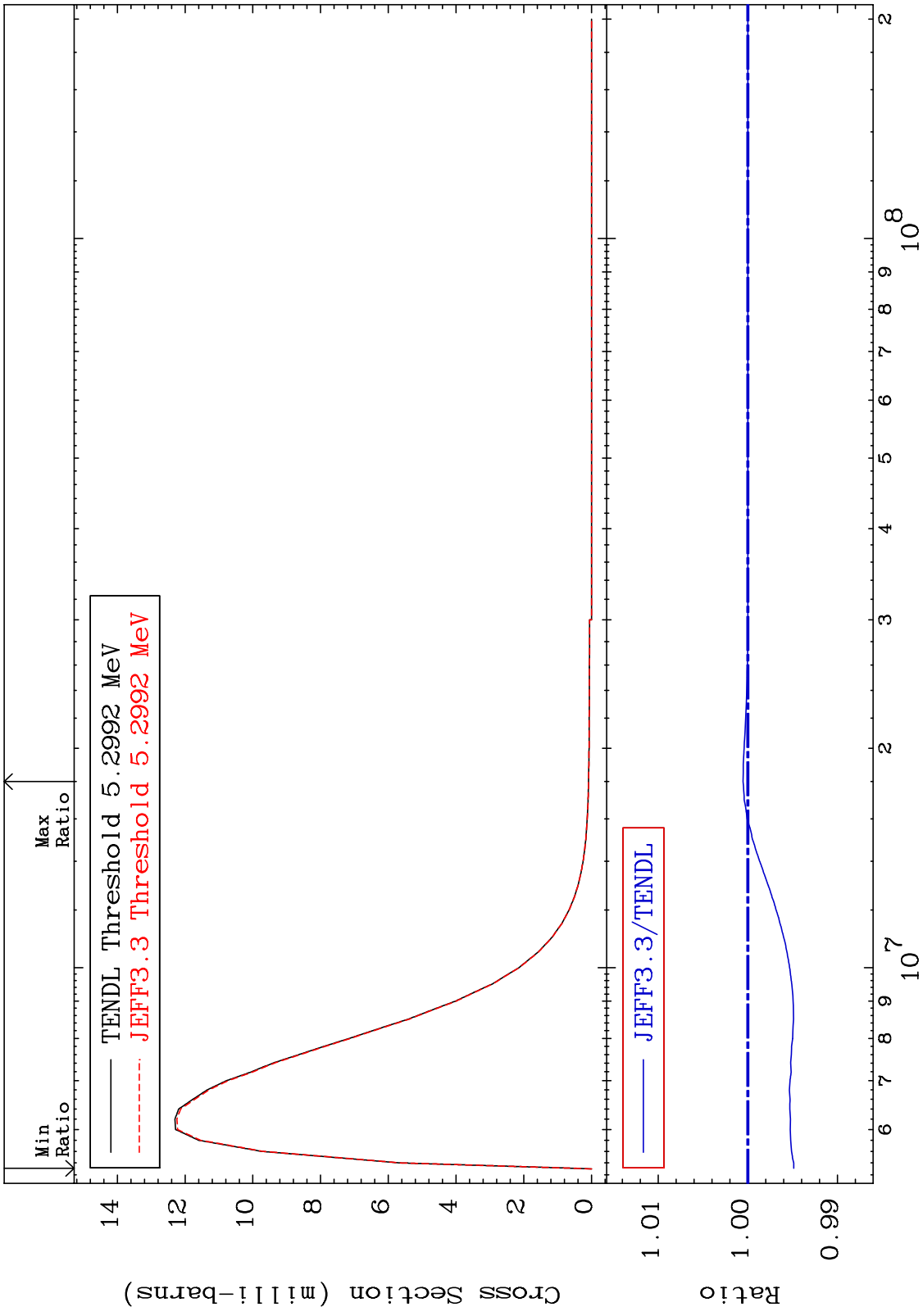
Incident Energy (eV)

19-K -39

MAT 1925 MT= 72 (n,n') Level Cross Section 19-K -39
 -0.302 To 0.123 %



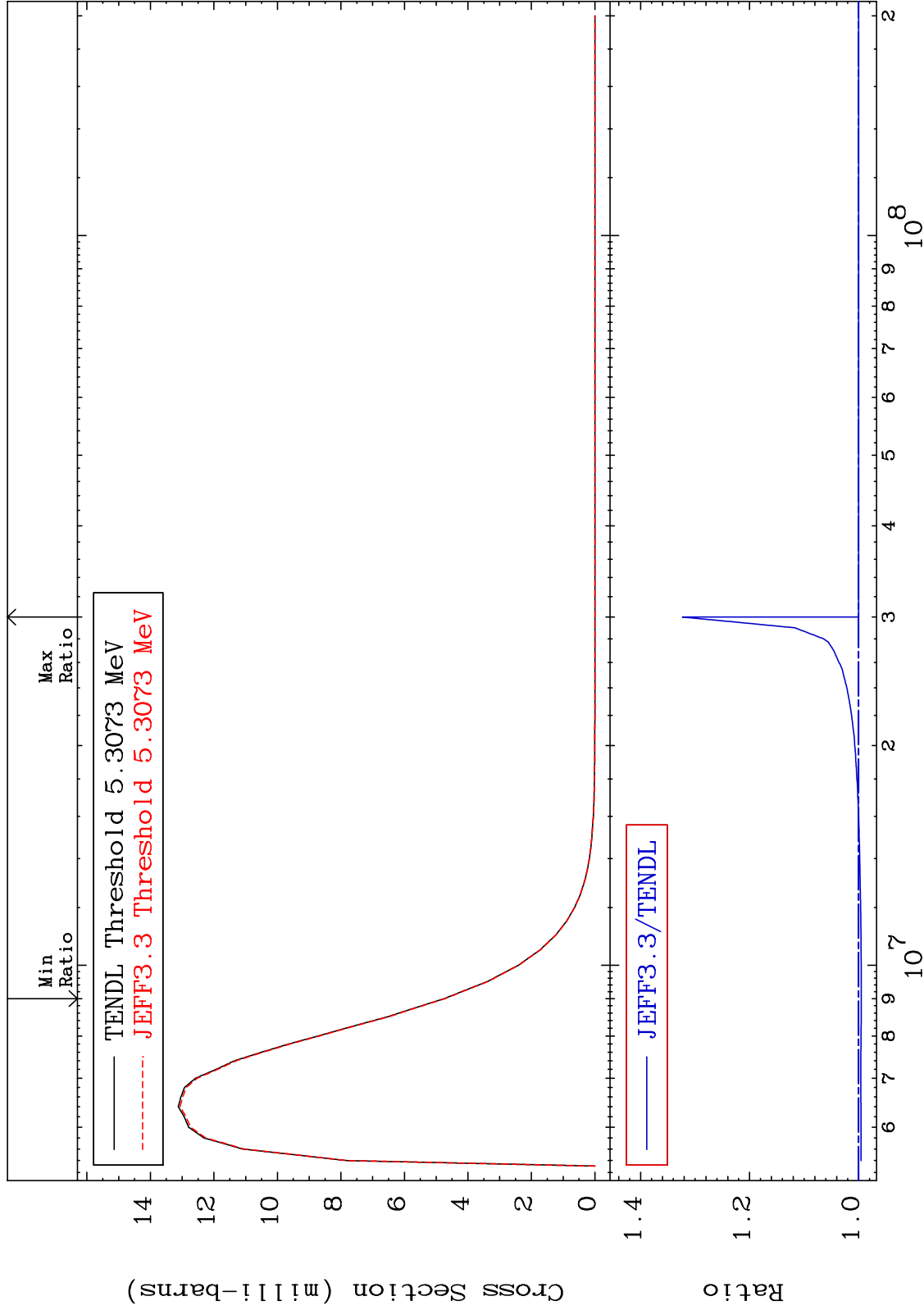
MAT 1925 MT= 73 (n,n') Level Cross Section 19-K -39
 -0.513 To 0.054 %



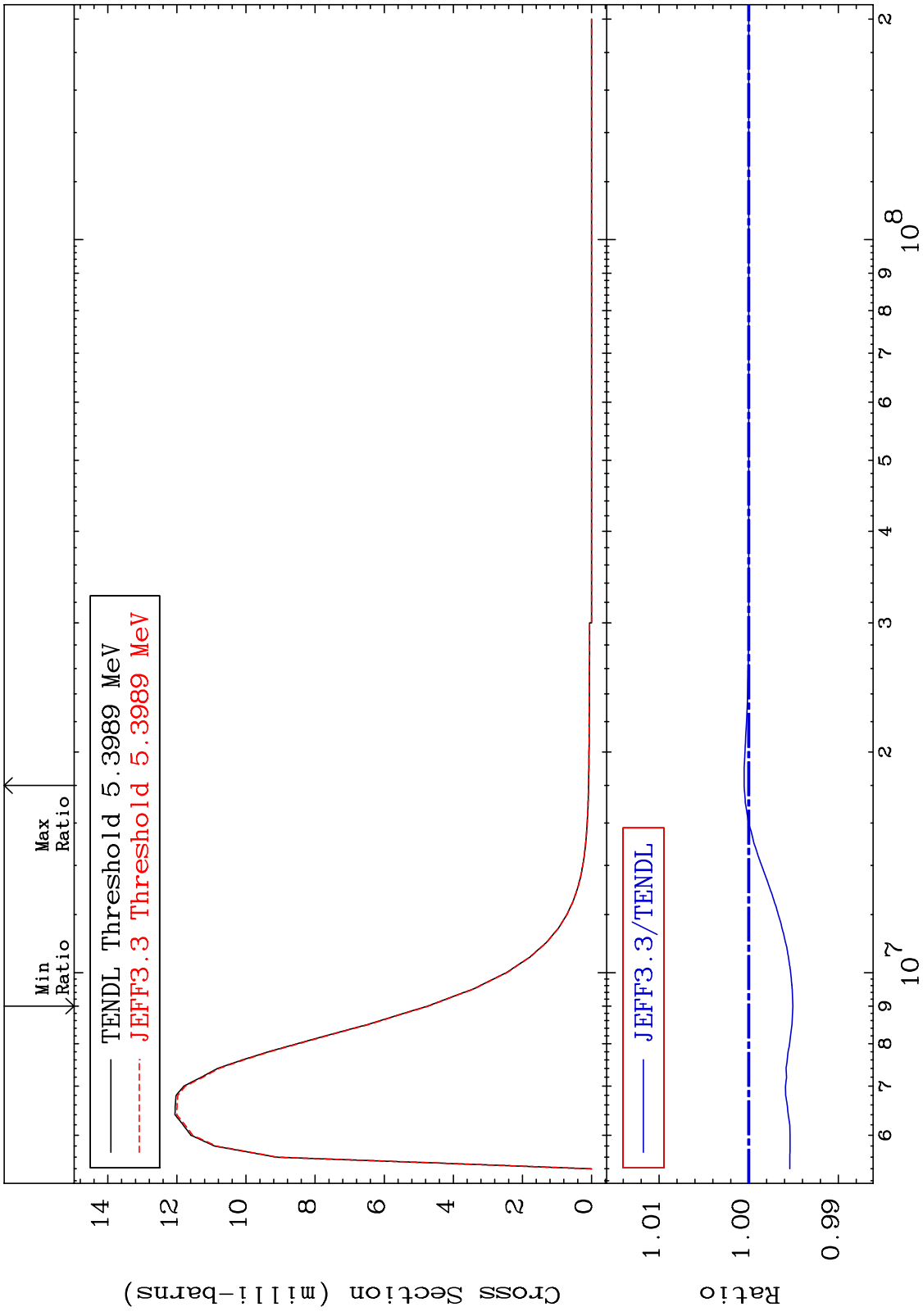
MAT 1925

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

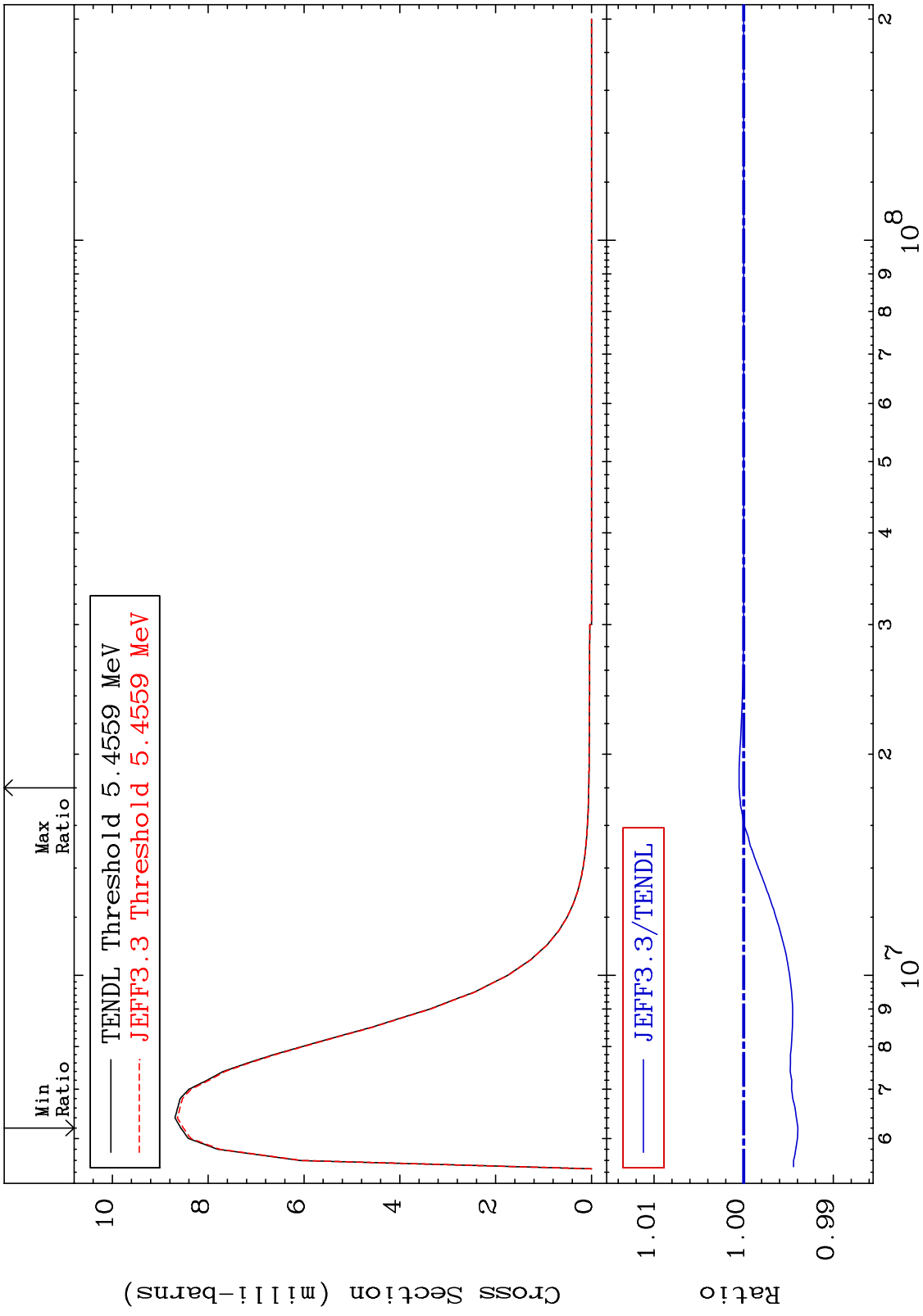
19-K -39
-0.500 To 32.32 %



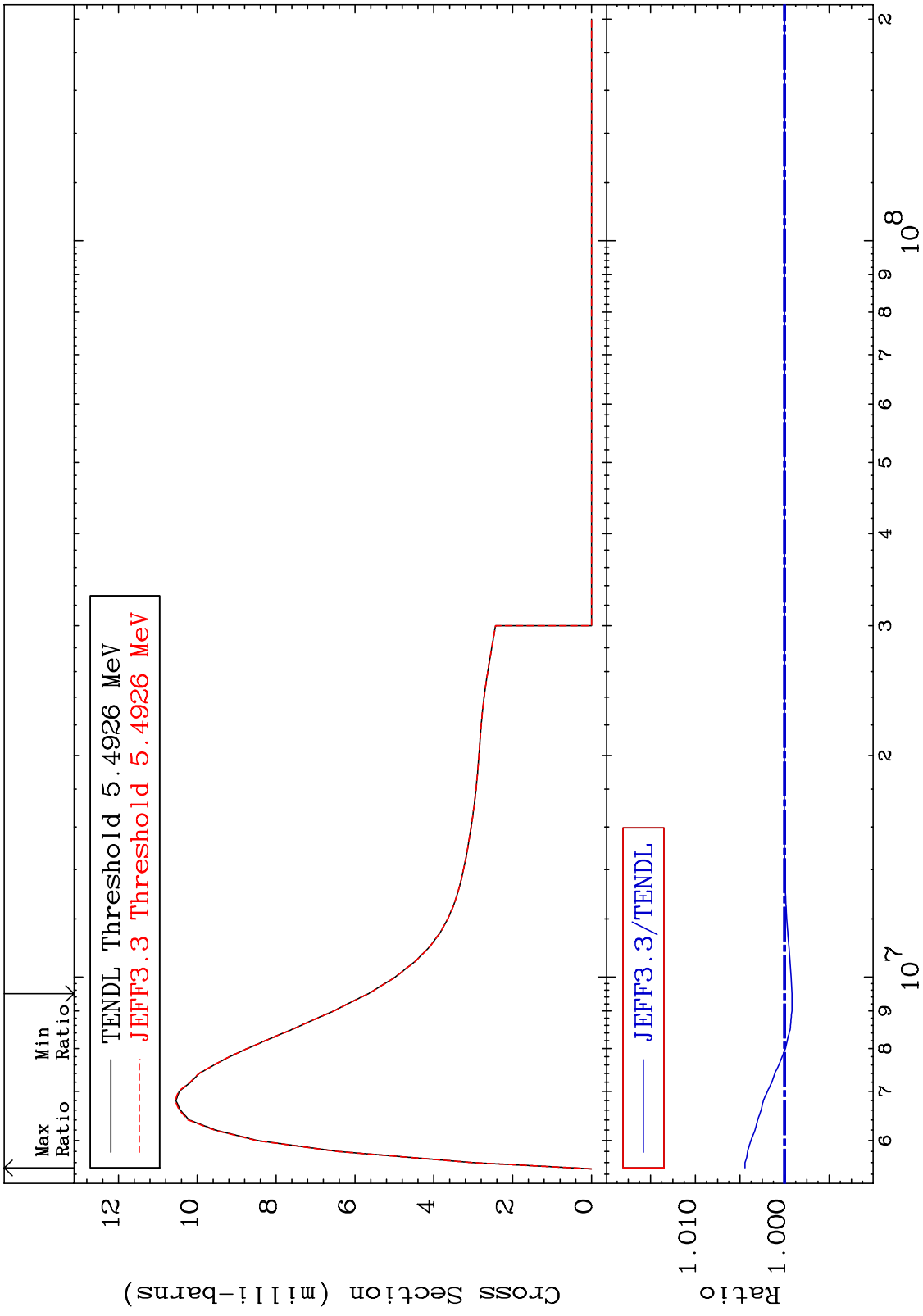
MAT 1925 MT= 75 (n,n') Level Cross Section 19-K -39
 -0.492 To 0.052 %



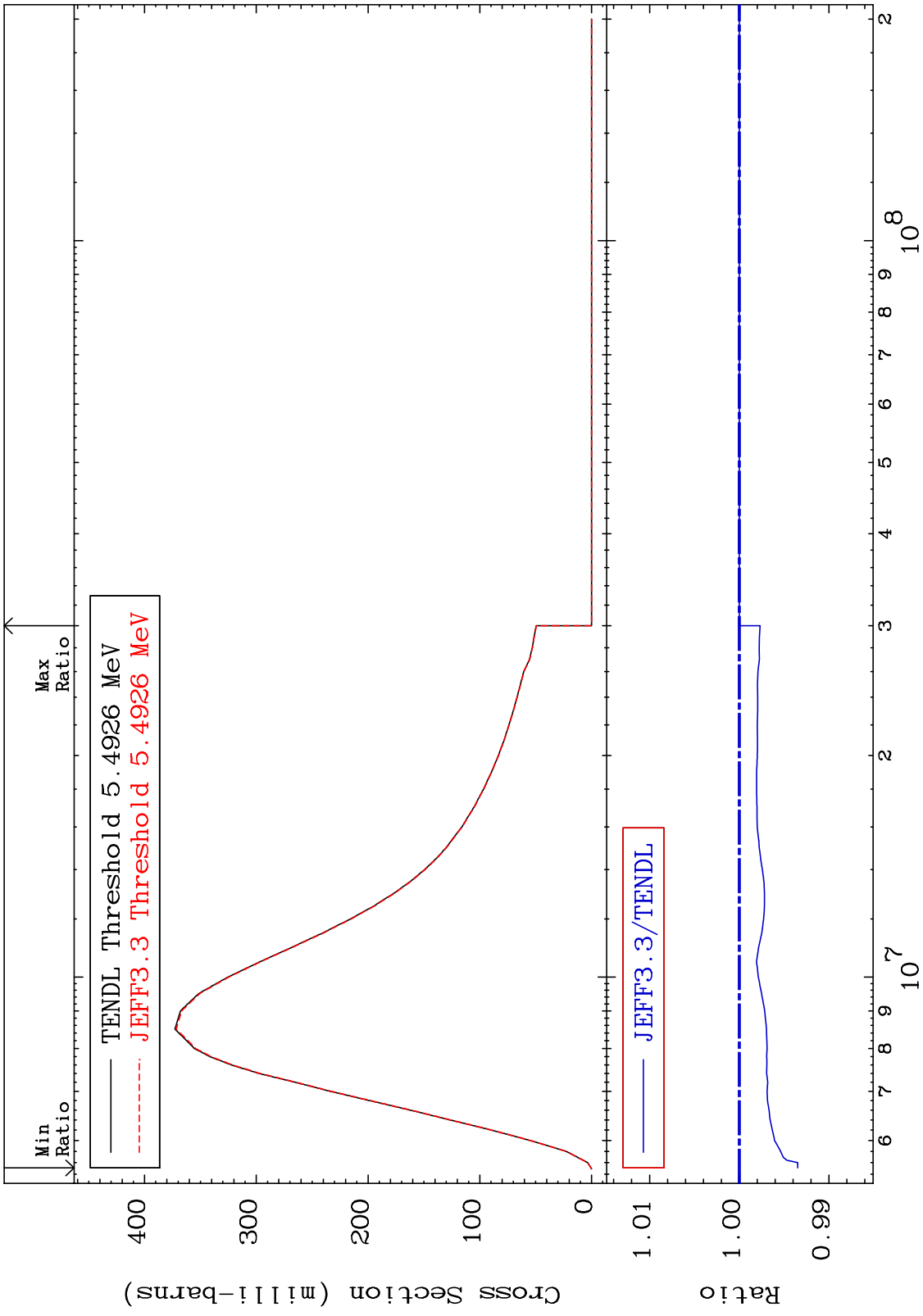
MAT 1925 MT= 76 (n,n') Level Cross Section 19-K -39
 -0.605 To 0.052 %



MAT 1925 MT= 77 (n,n') Level Cross Section 19-K -39
 -0.083 To 0.443 %



MAT 1925 (n,n') Continuum Cross Section 19-K -39 -0.650 To 0.000 %



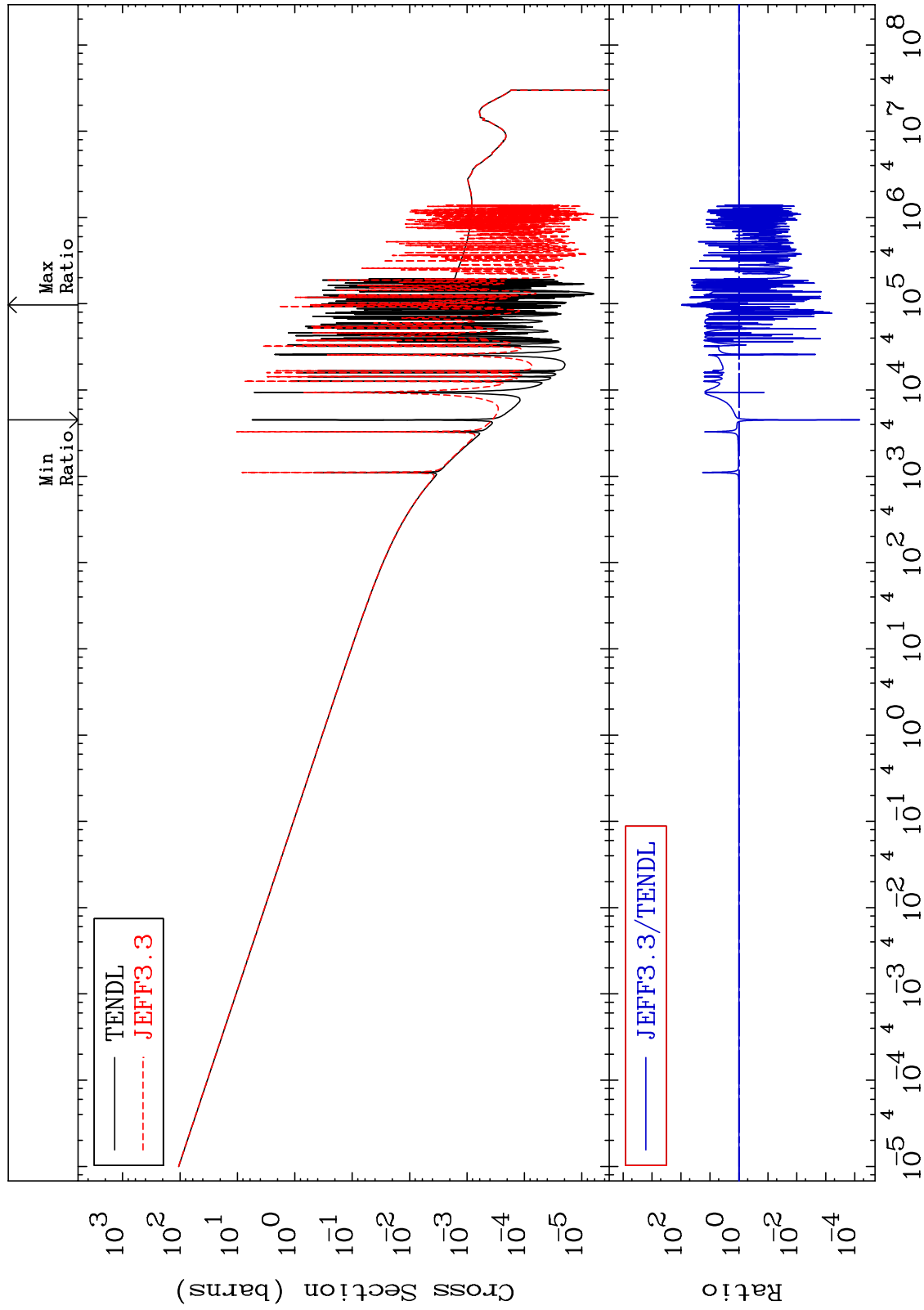
MAT 1925

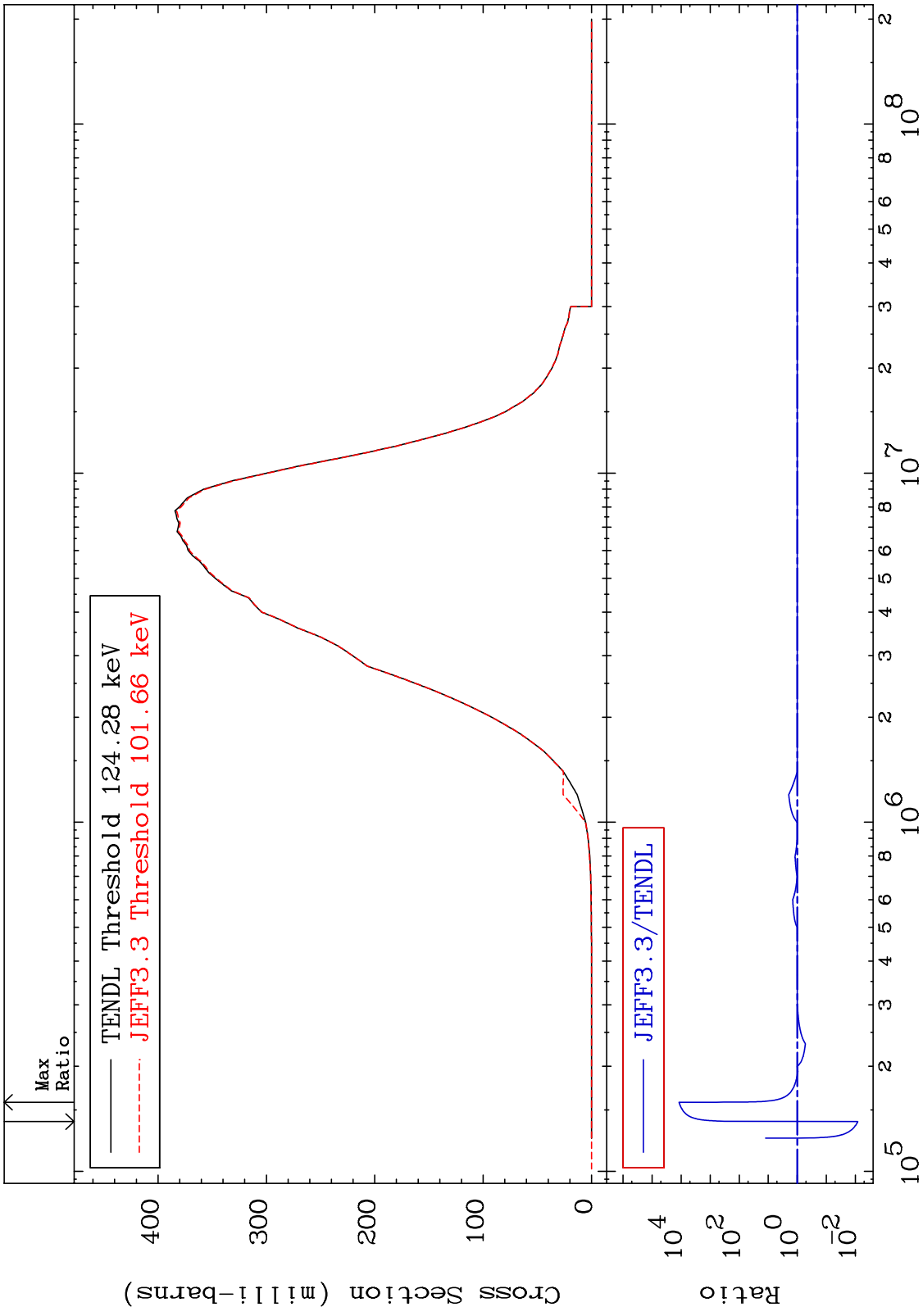
(n, γ)

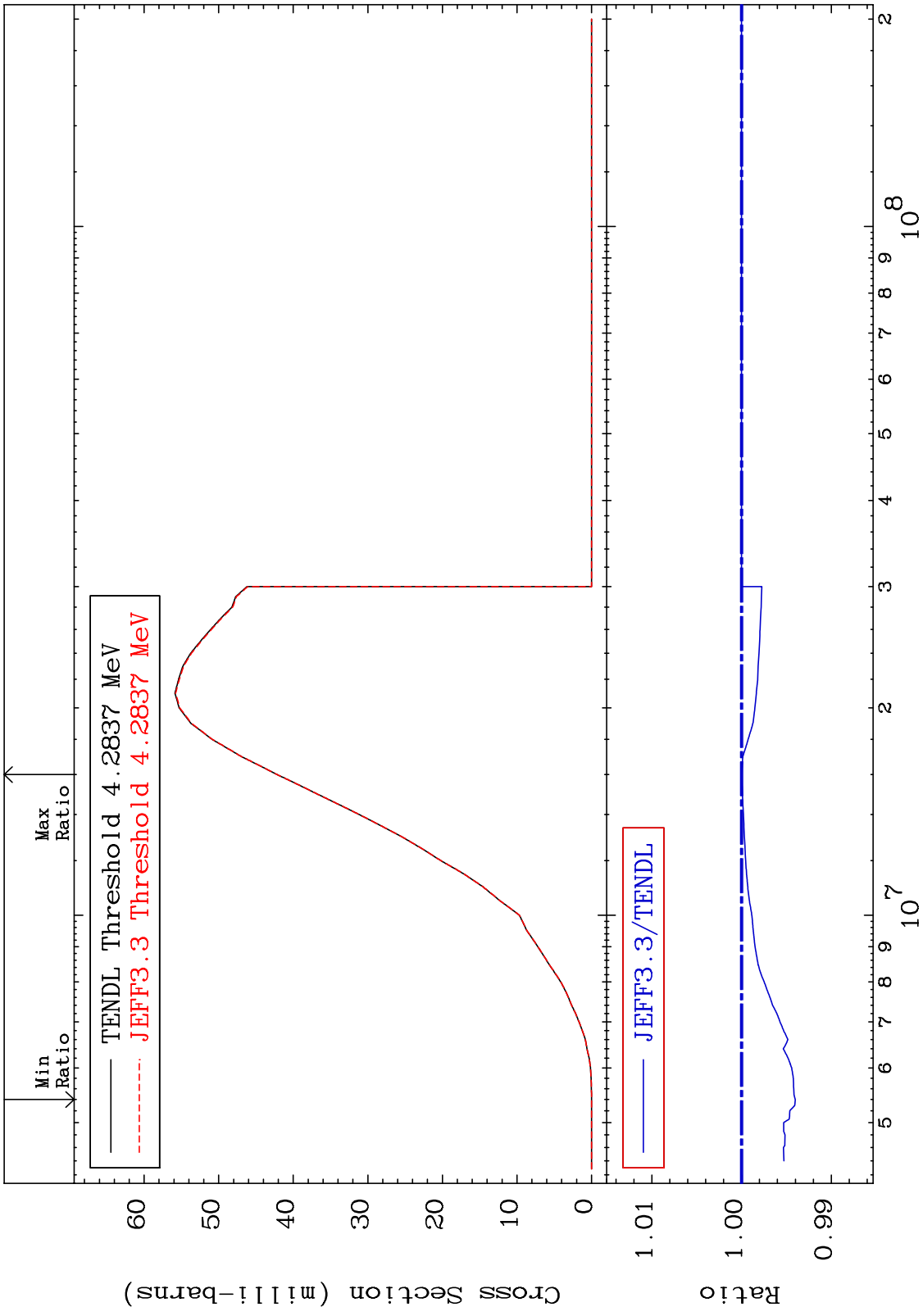
19-K -39

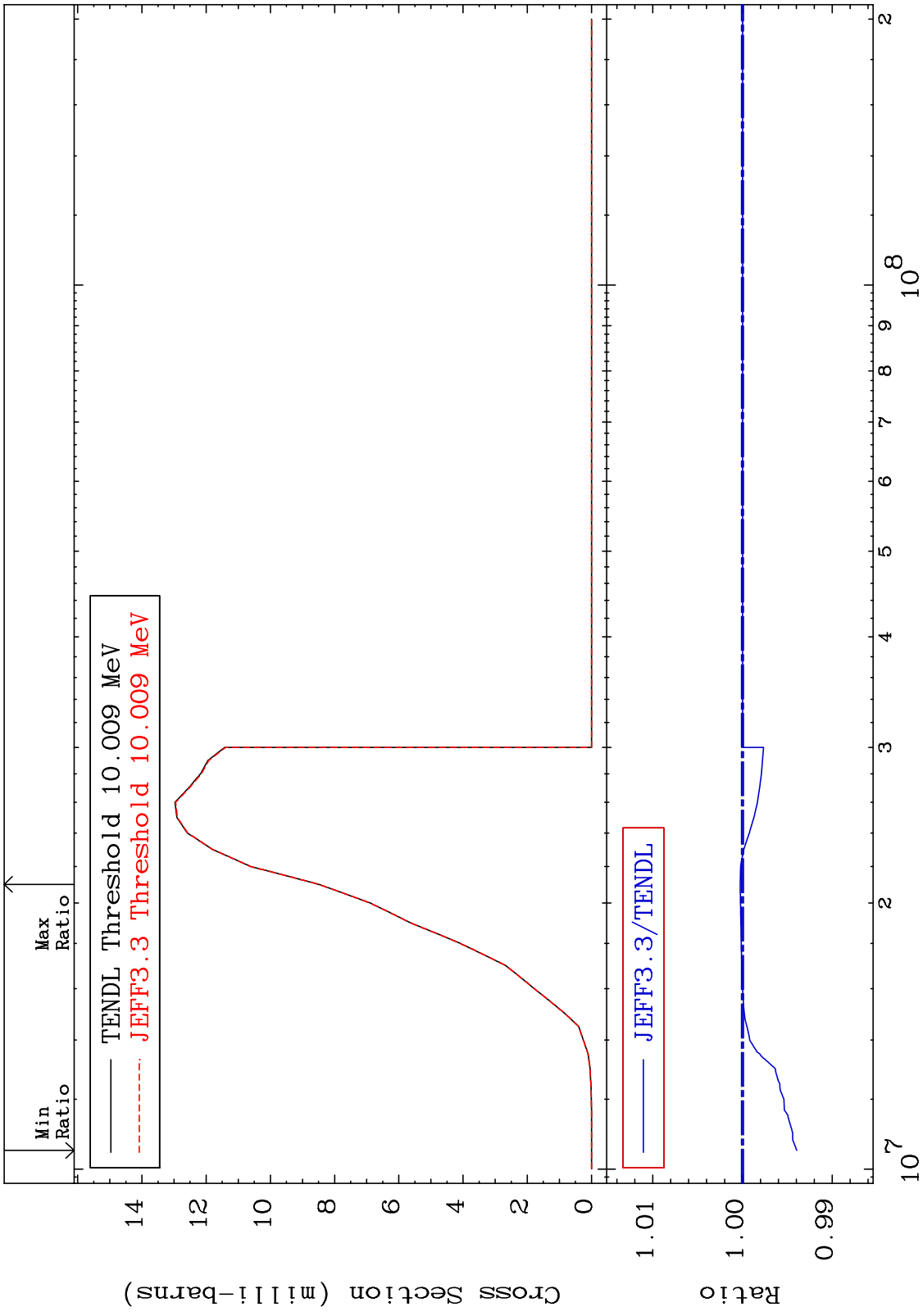
Cross Section

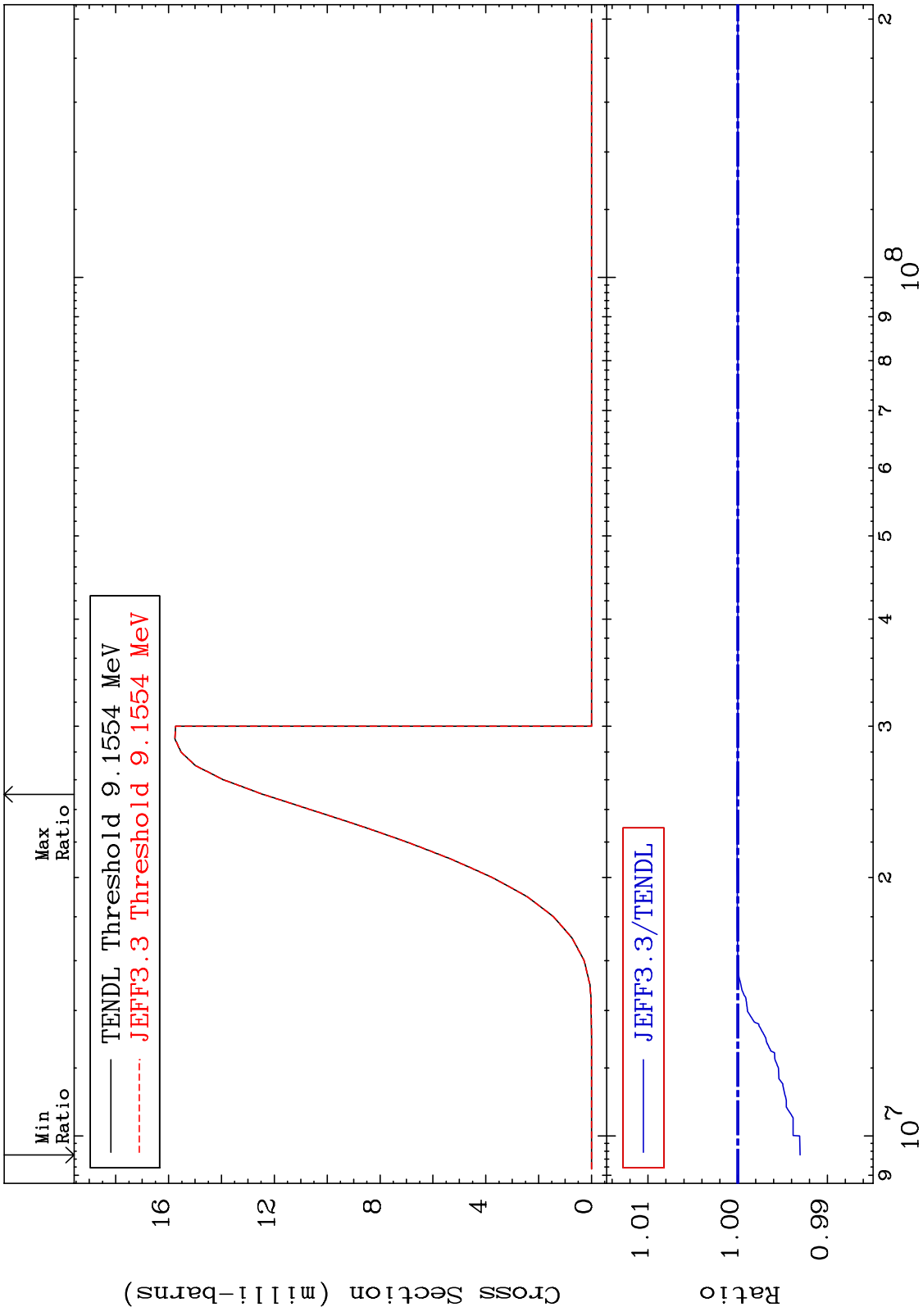
-99.99 To 9549. %











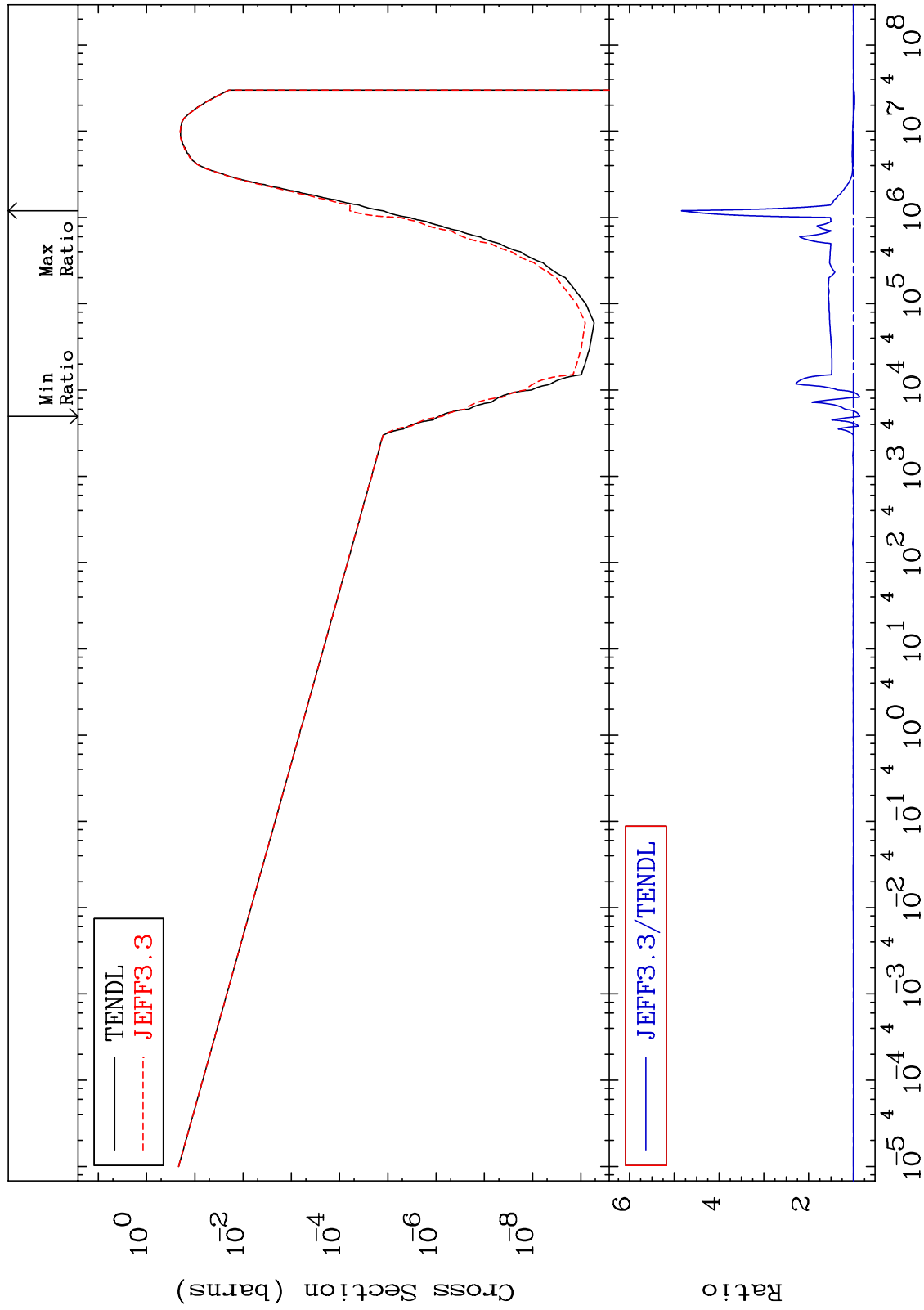
MAT 1925

(n, α)

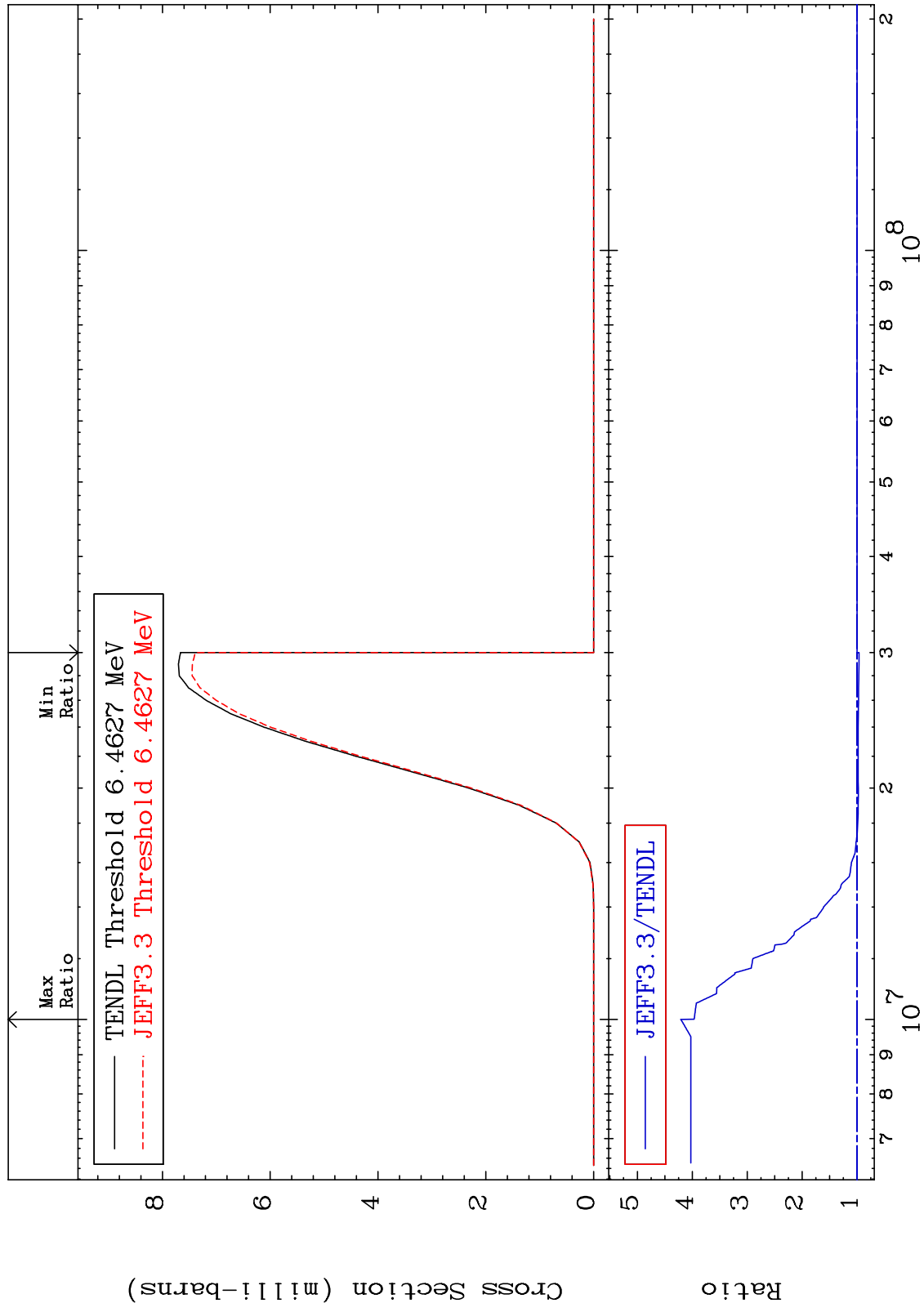
Cross Section

19-K -39

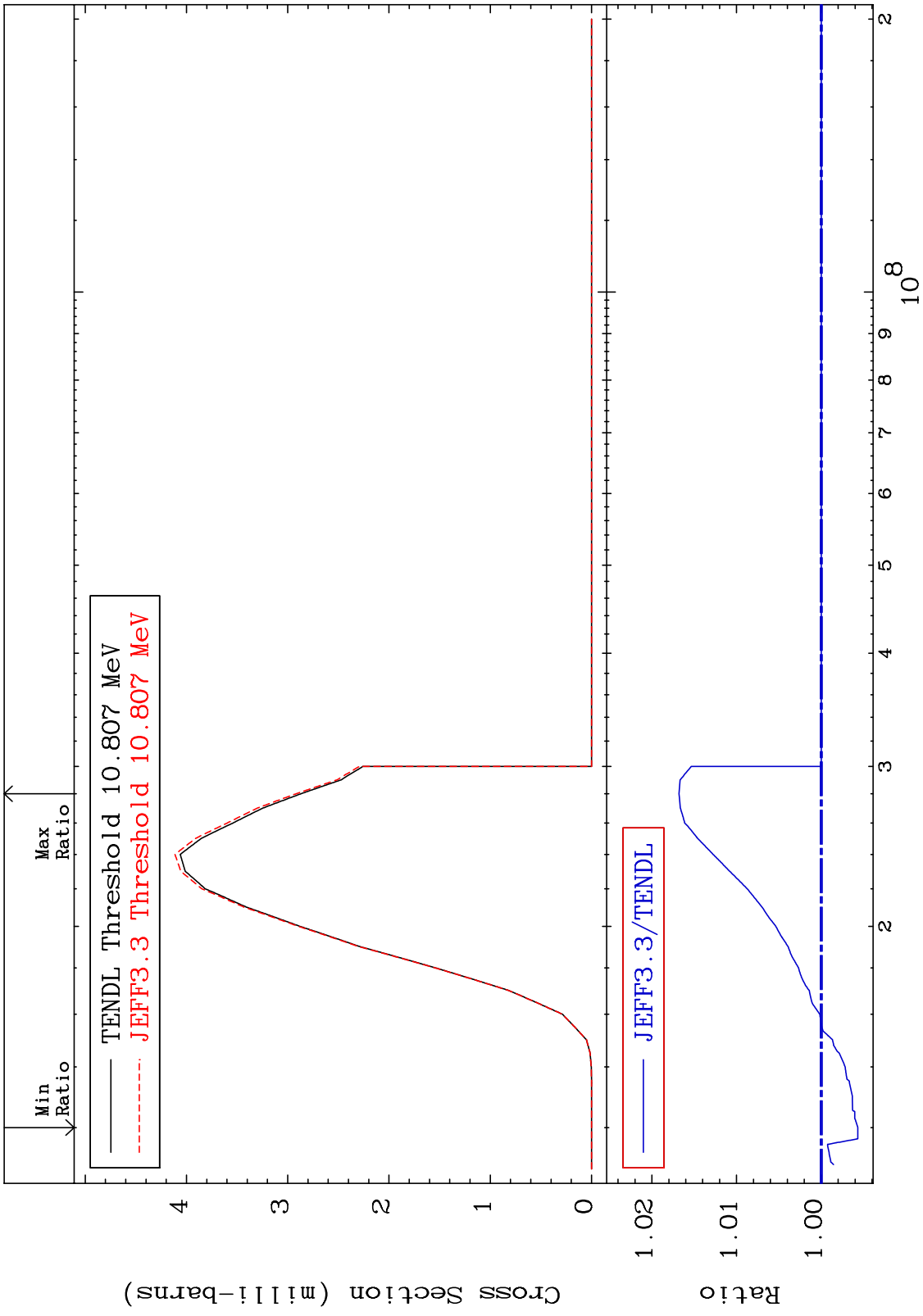
-14.40 To 384.0 %



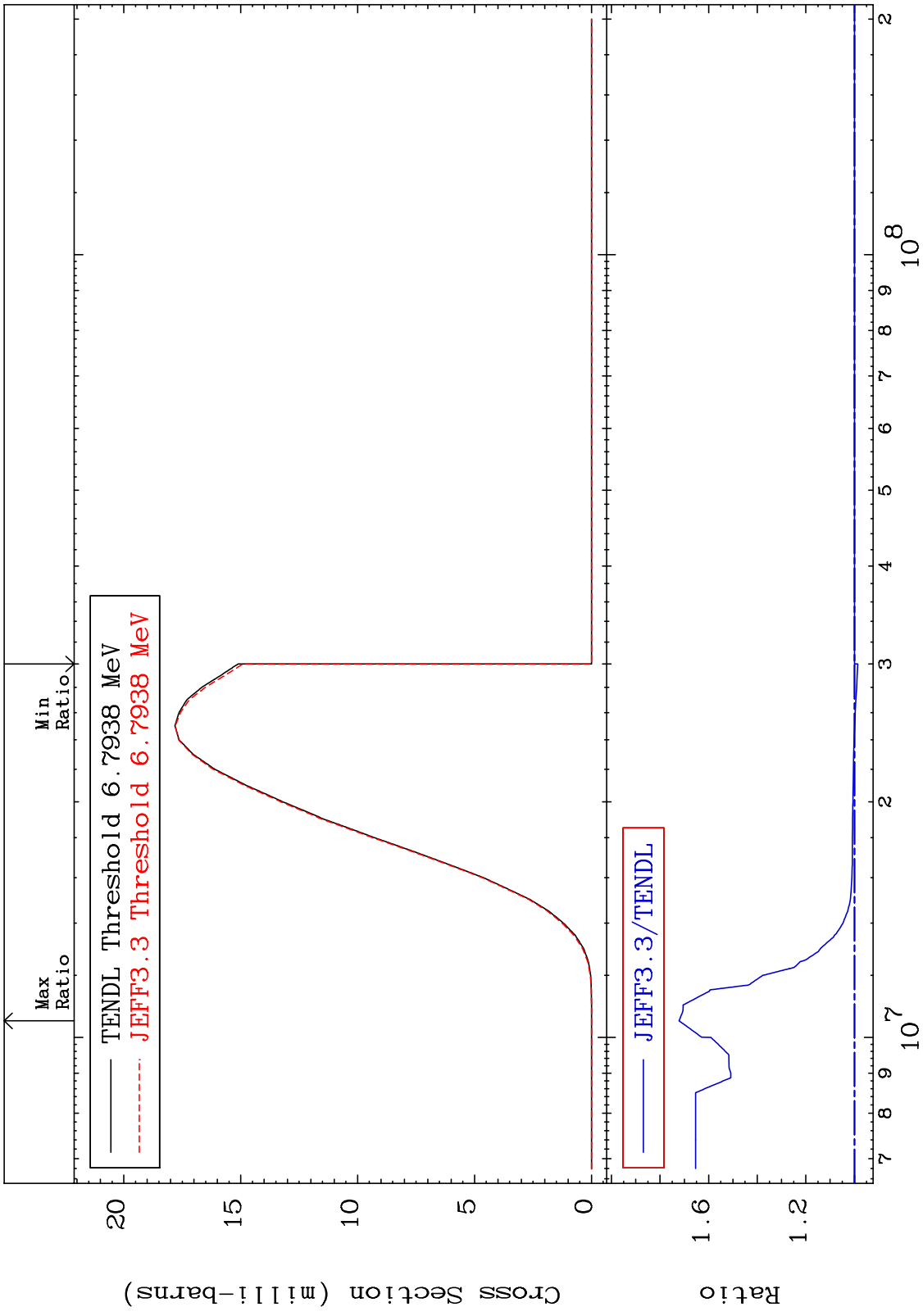
MAT 1925 (n,2α) 19-K -39
Cross Section -3.587 To 320.8 %



MAT 1925 (n,2p) Cross Section 19-K -39
 -0.432 To 1.679 %

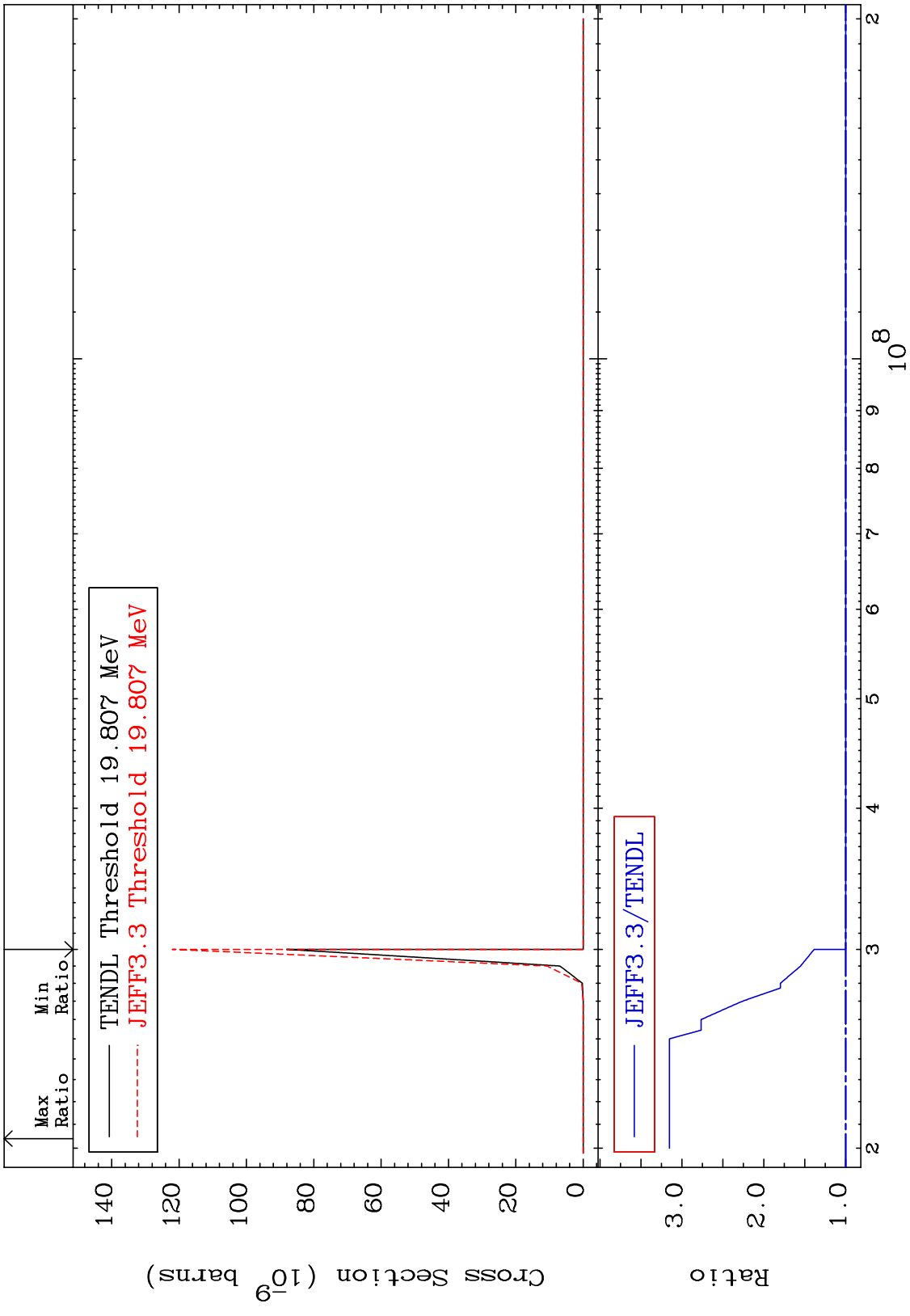


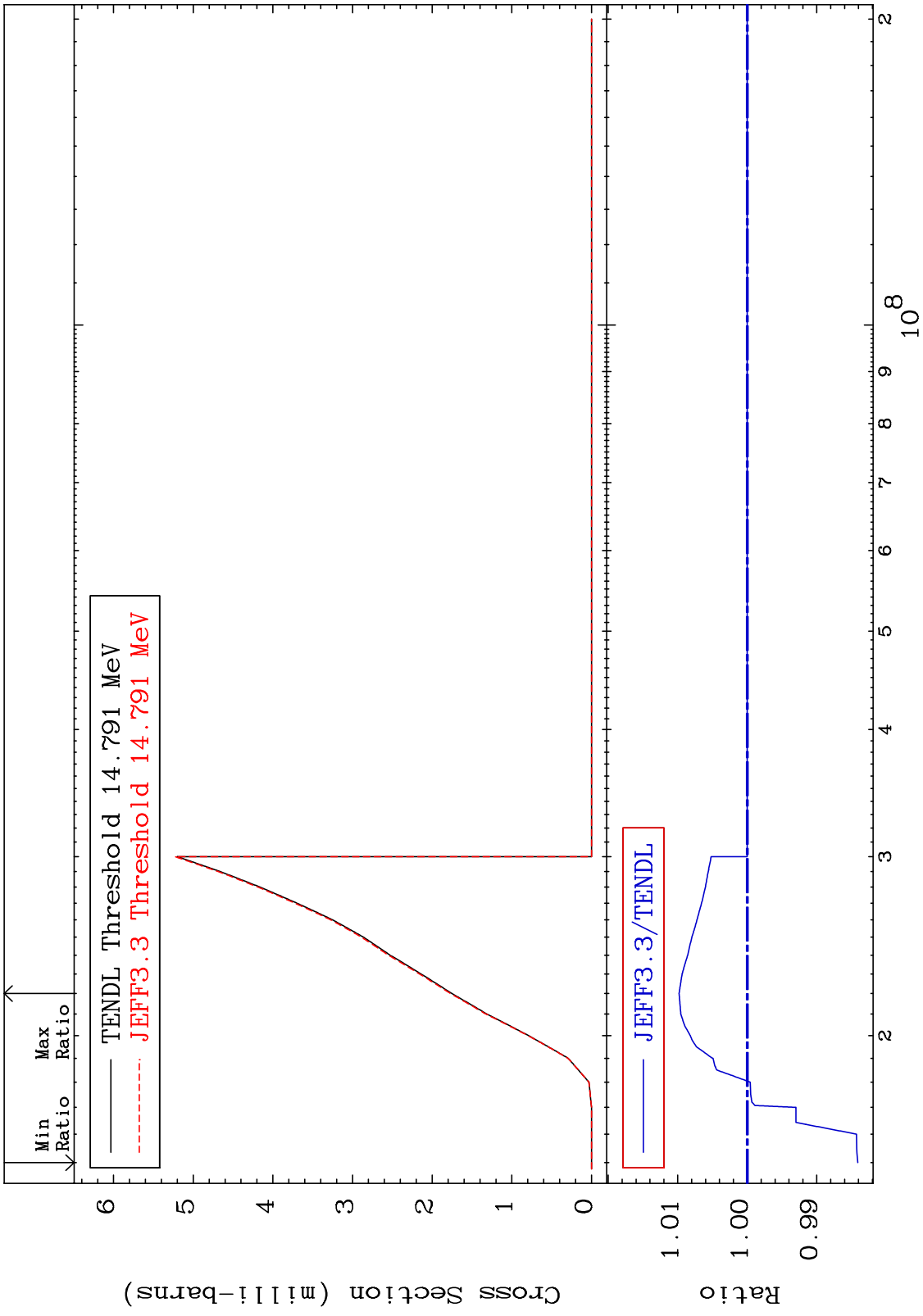
MAT 1925 (n,p) α 19-K -39
-1.401 To 72.18 %
Cross Section

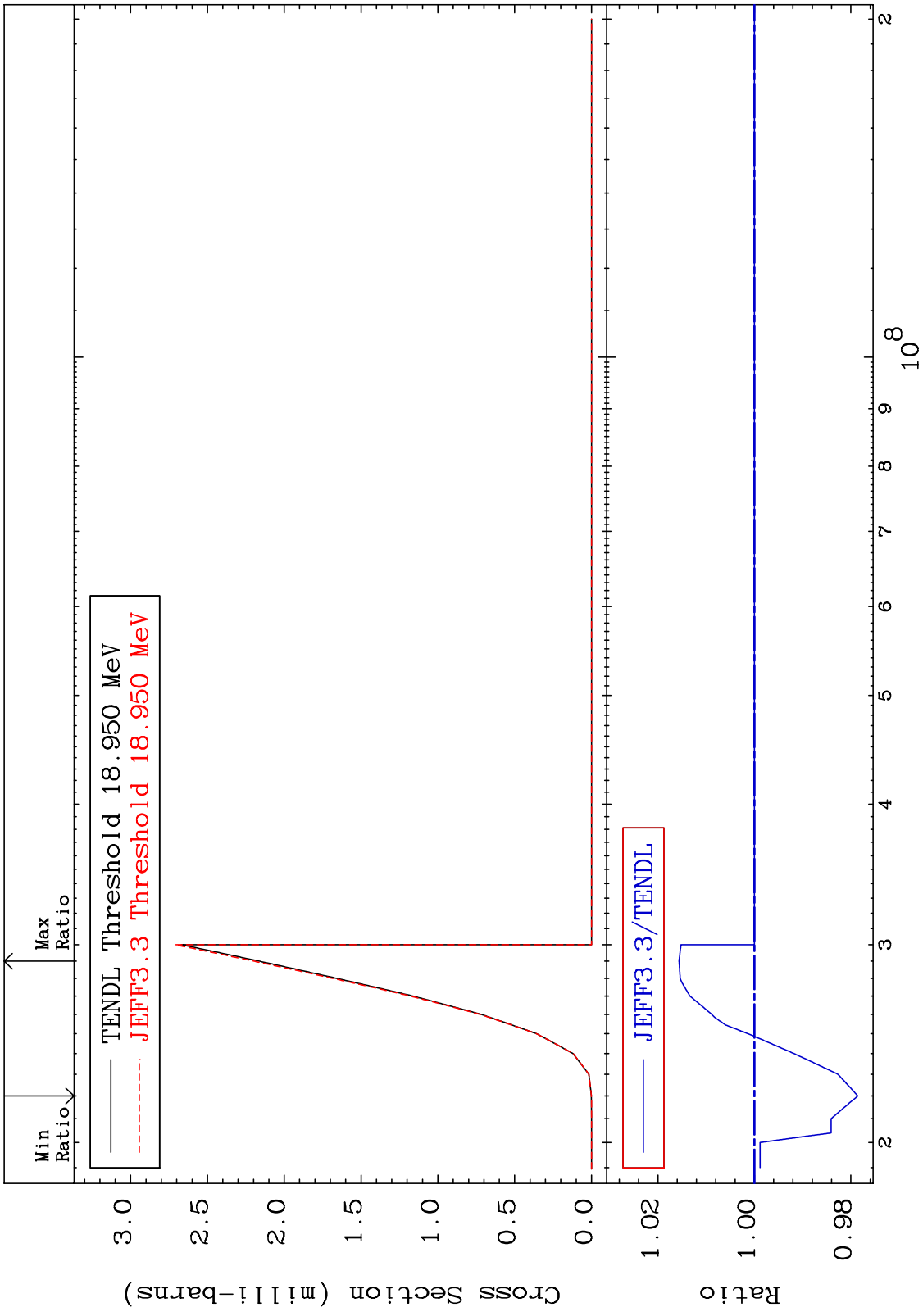


54 19-K -39

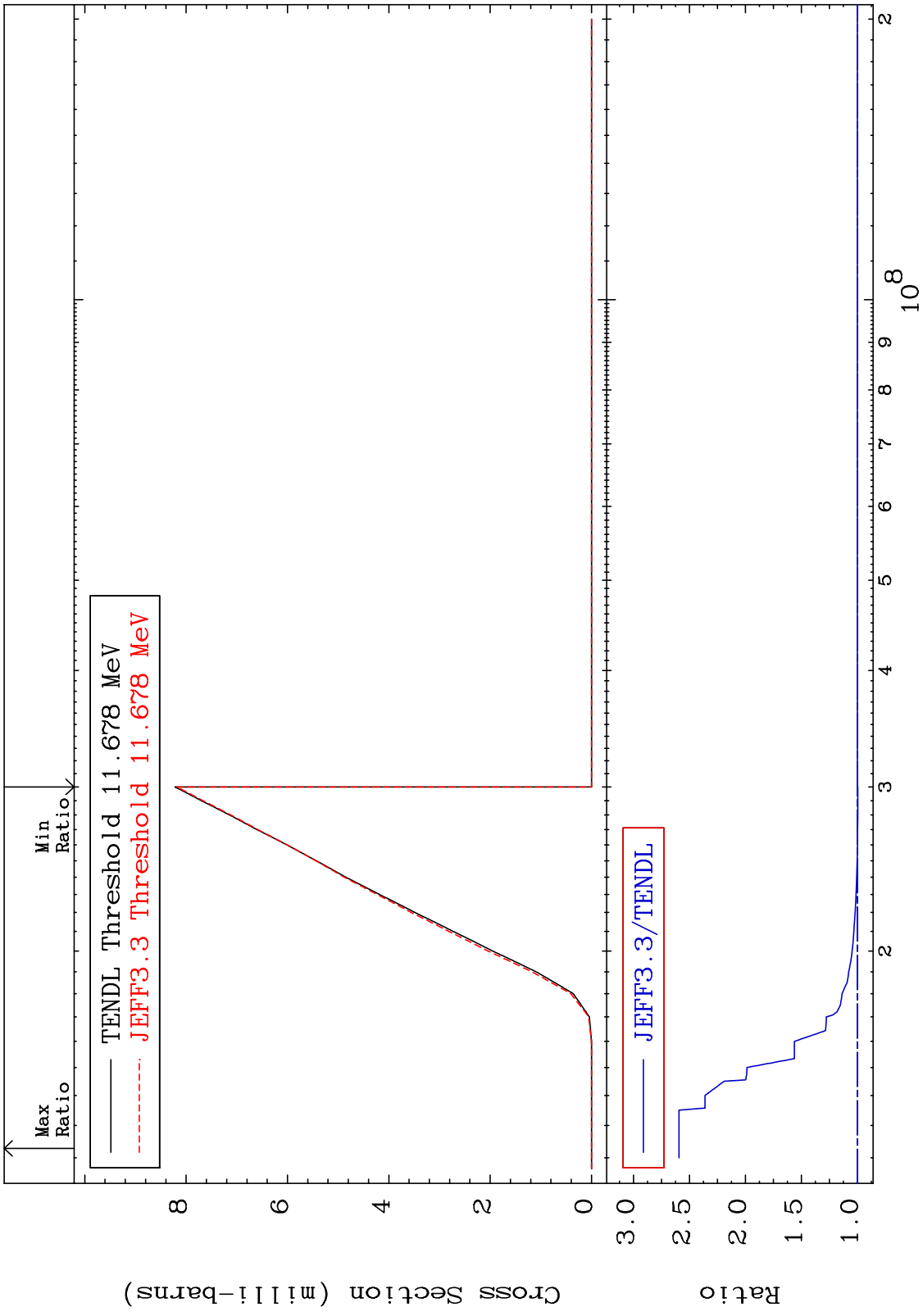
MAT 1925 (n,d) 2α Cross Section 19-K -39 To 215.1 %







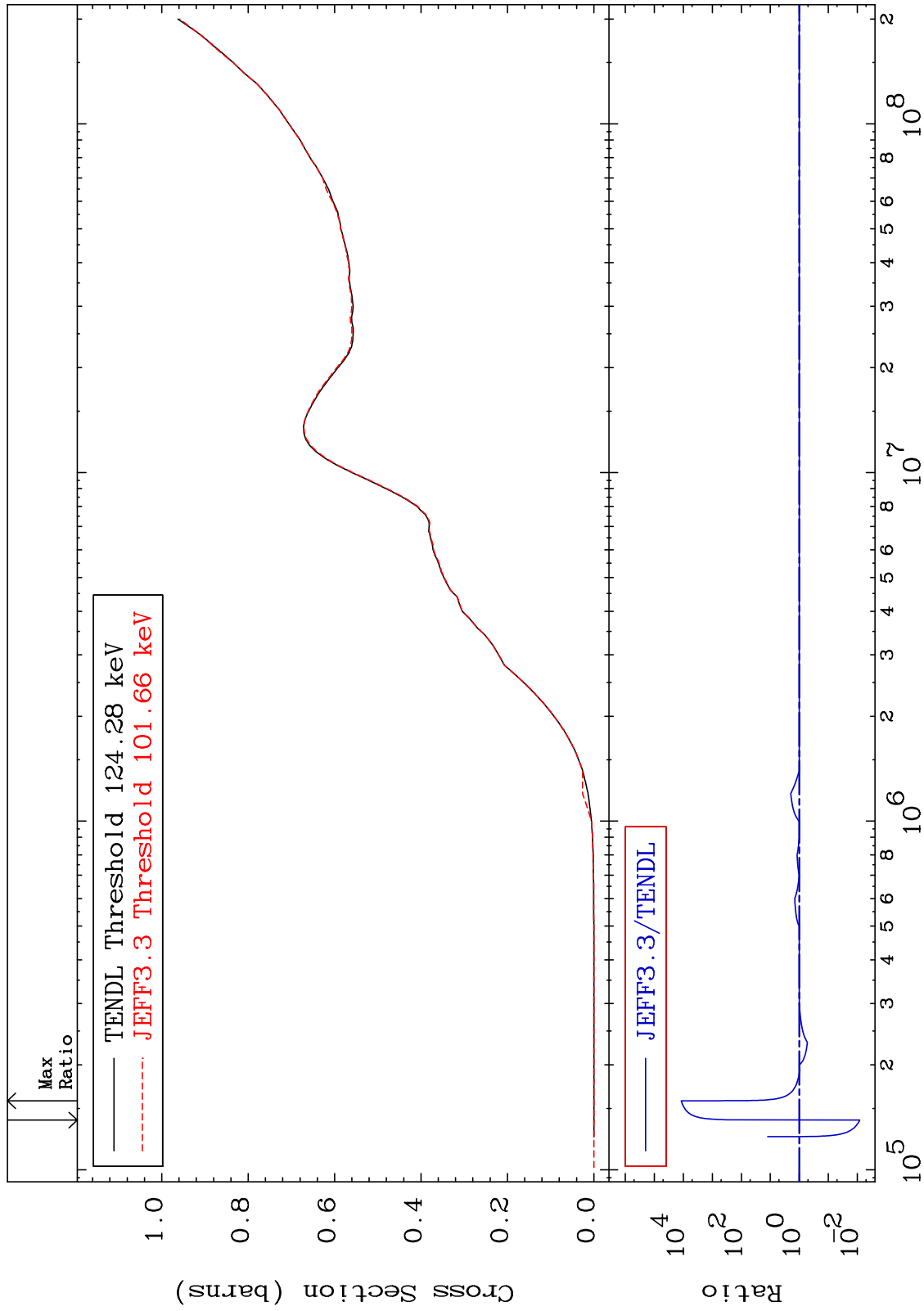
MAT 1925 (n,d) α 19-K -39
 Cross Section -0.428 To 159.2 %



MAT 1925

Hydrogen Production
Cross Section

19-K -39
-99.18 To 9999. %

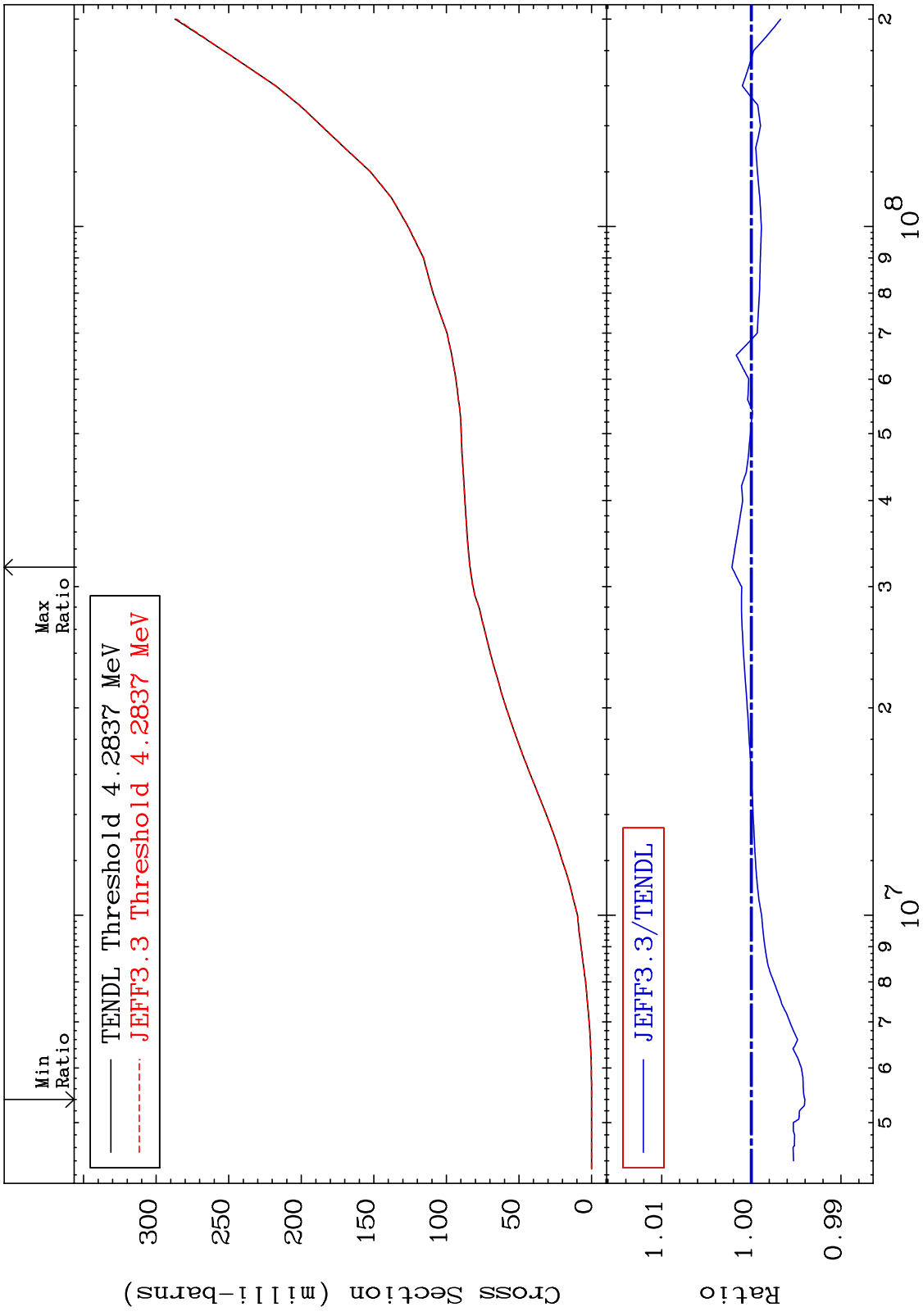


59

Incident Energy (eV)

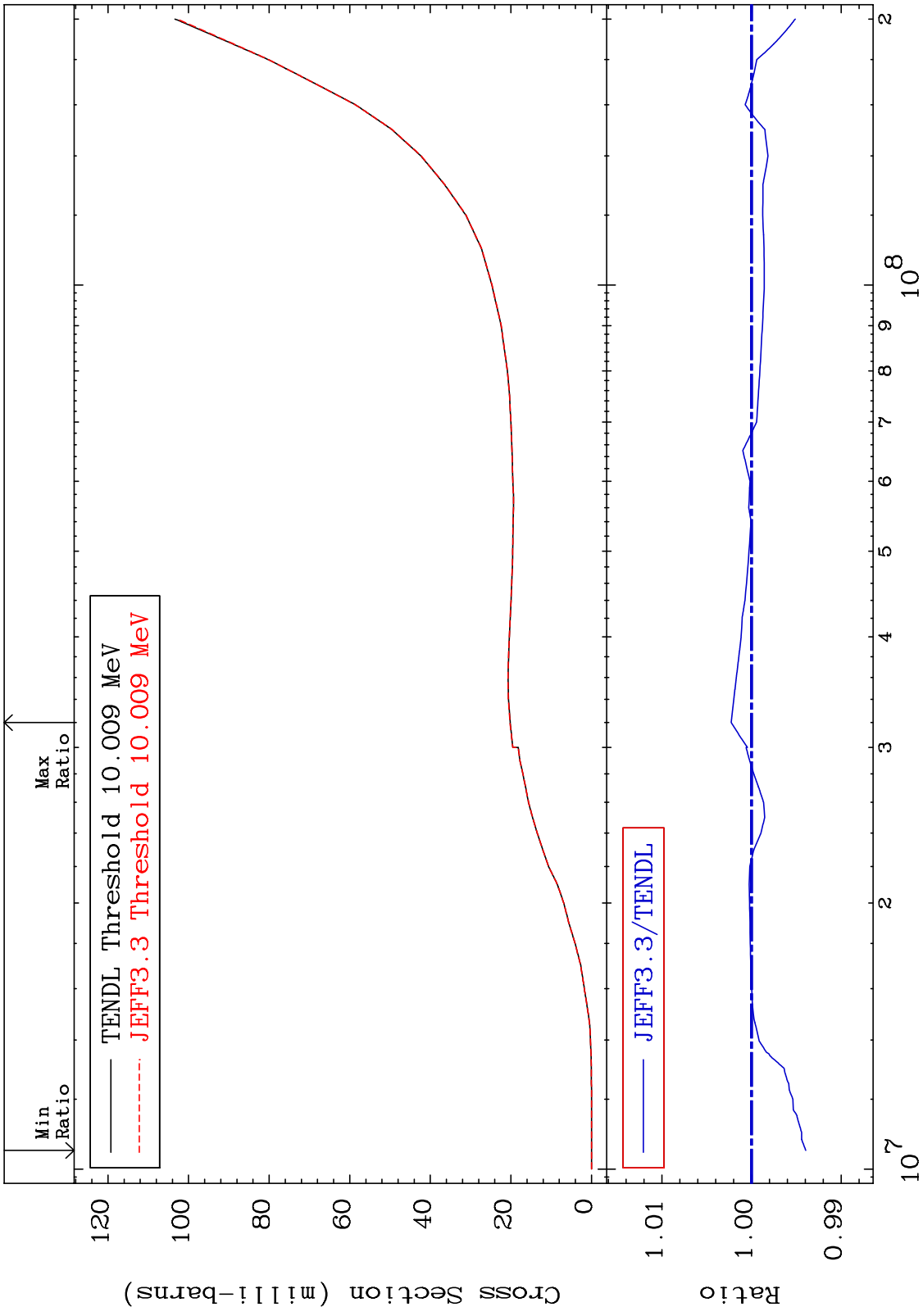
19-K -39

MAT 1925 Deuterium Production Cross Section 19-K -39
 -0.599 To 0.217 %



60 19-K -39

MAT 1925 Tritium Production Cross Section 19-K -39
-0.605 To 0.228 %

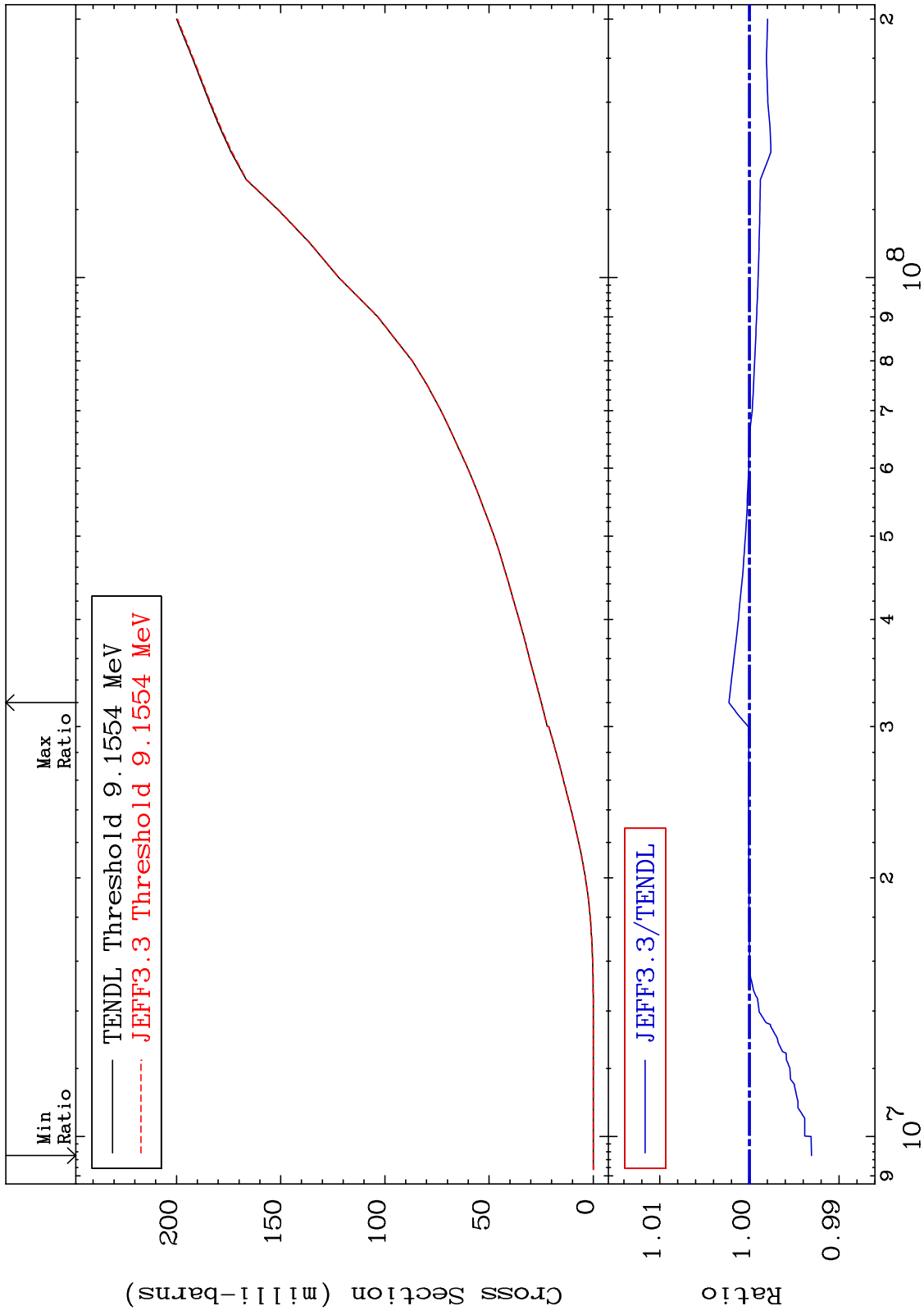


61 19-K -39

MAT 1925

He-3 Production
Cross Section

19-K -39
-0.694 To 0.229 %



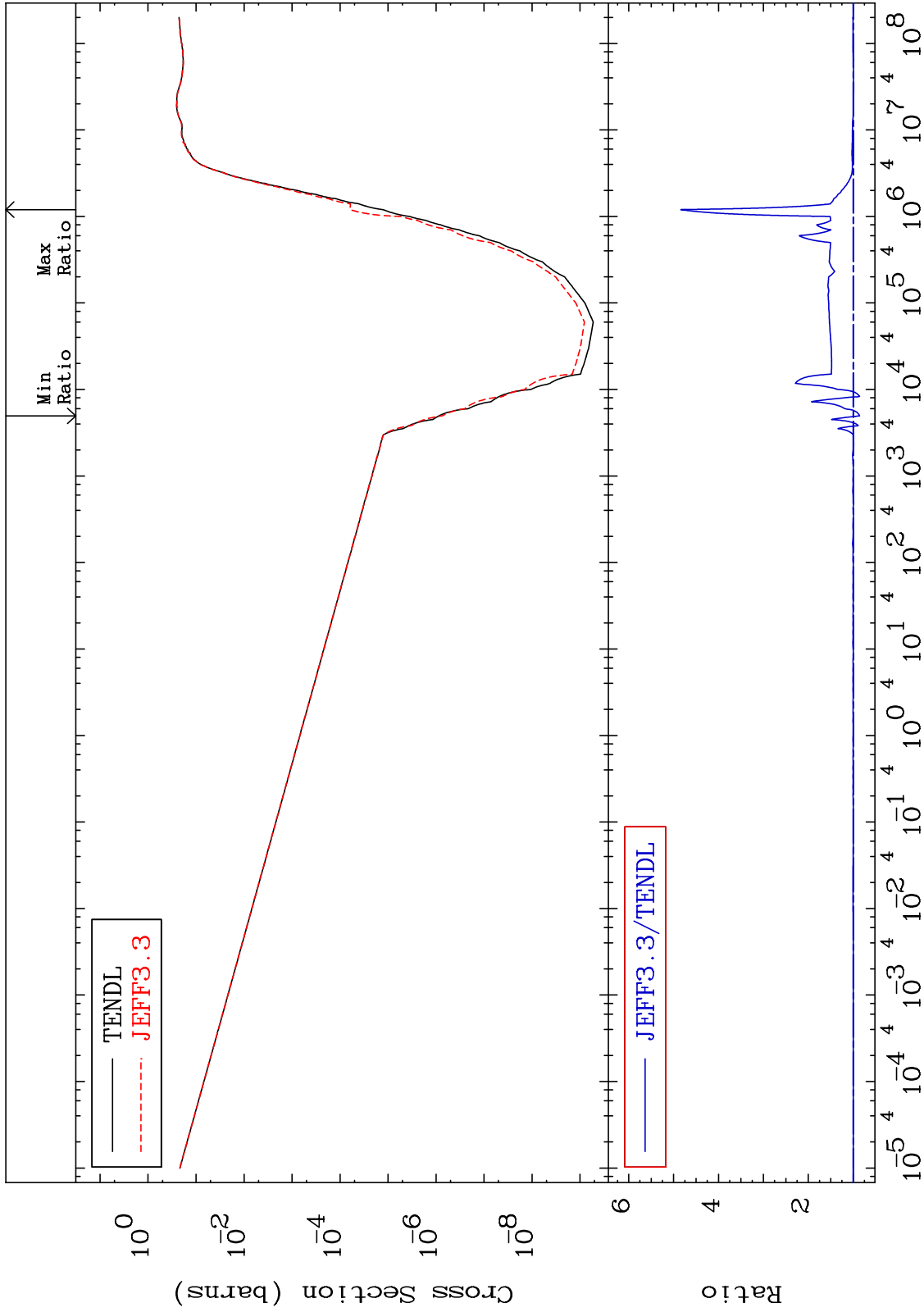
62

19-K -39

MAT 1925

He-4 Production
Cross Section

19-K -39
-14.40 To 384.0 %



63

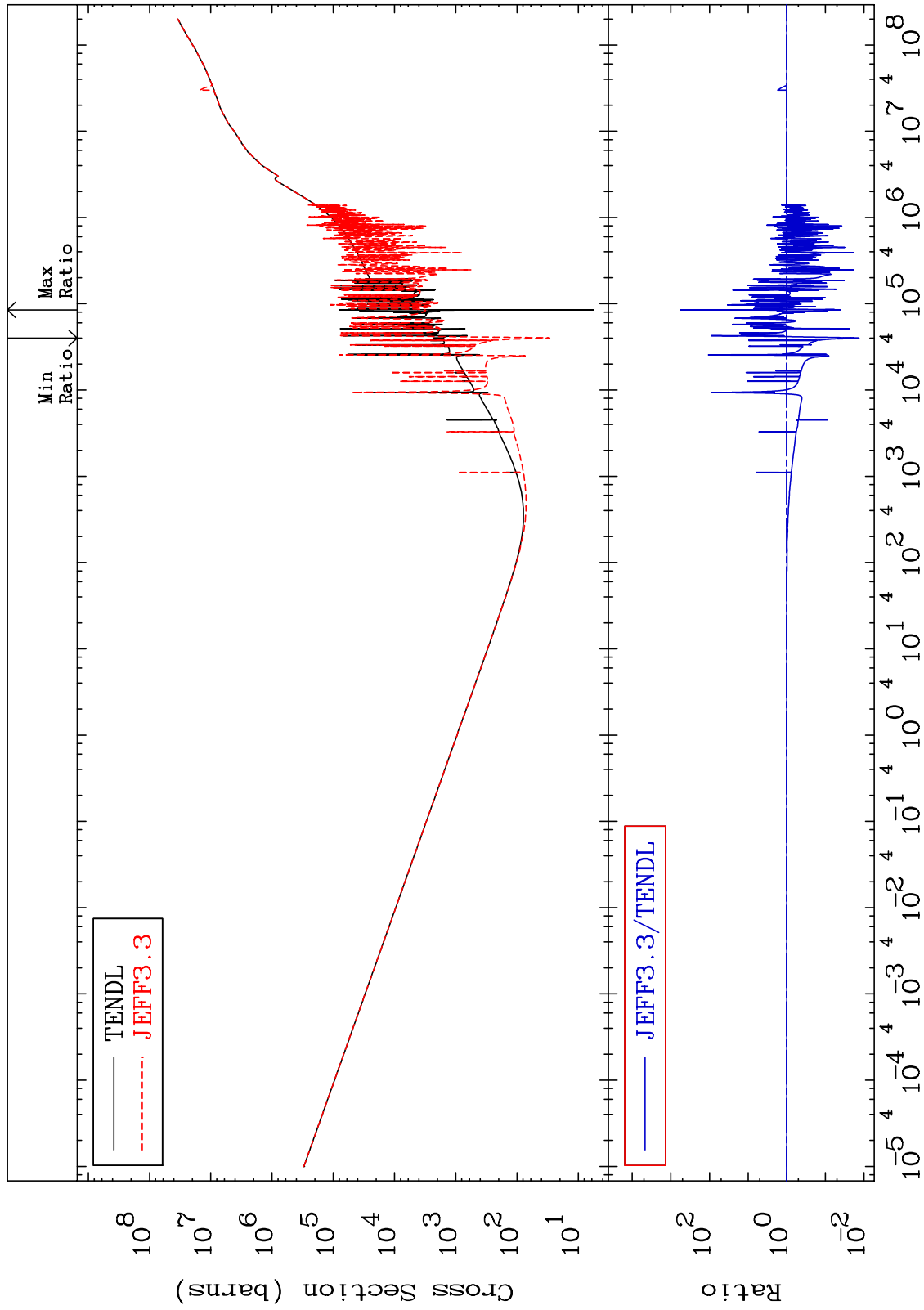
Incident Energy (eV)

19-K -39

MAT 1925

Kerma total (eV-barns)
Cross Section

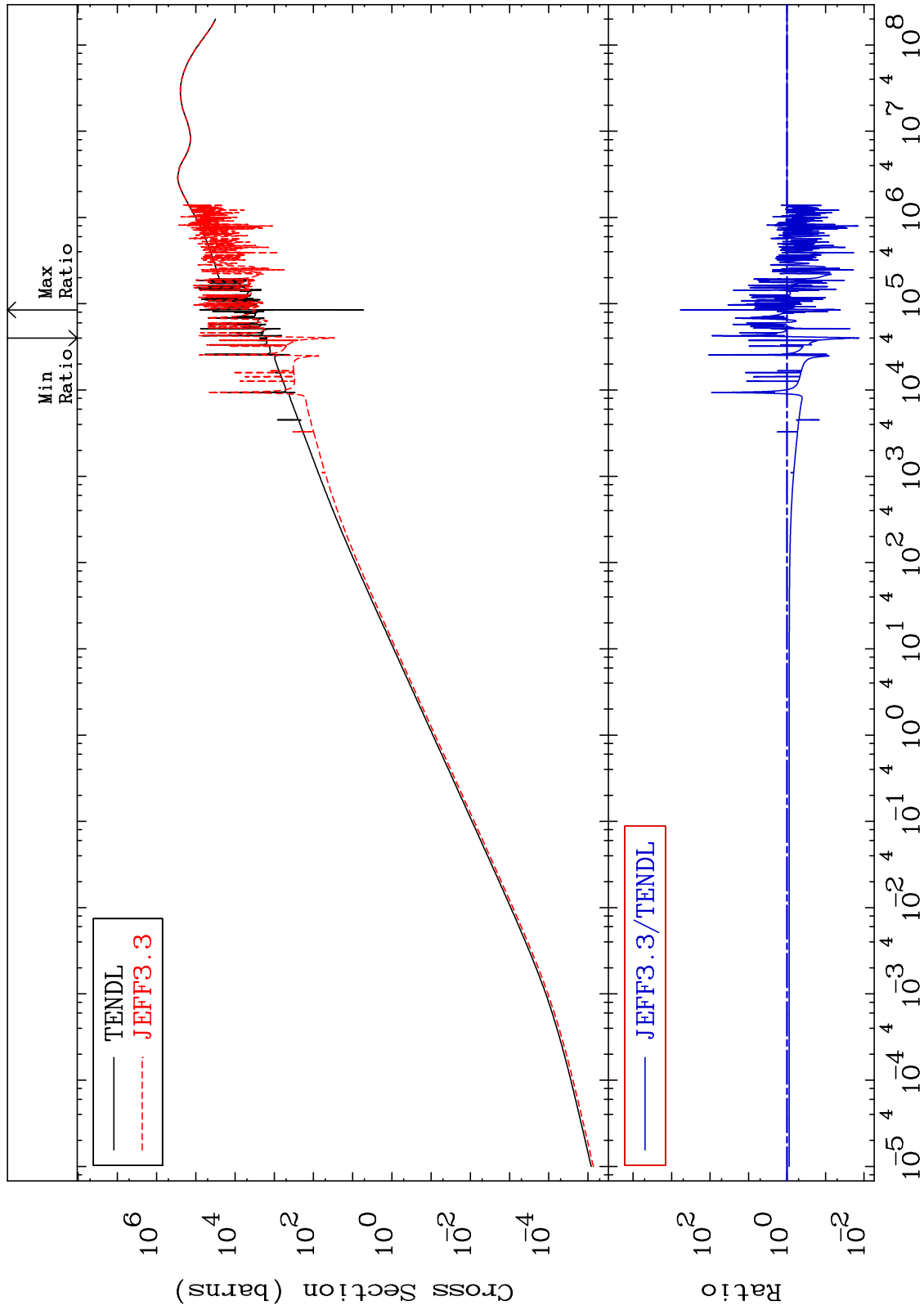
19-K -39
-98.65 To 9999. %



MAT 1925

Kerma elastic
Cross Section

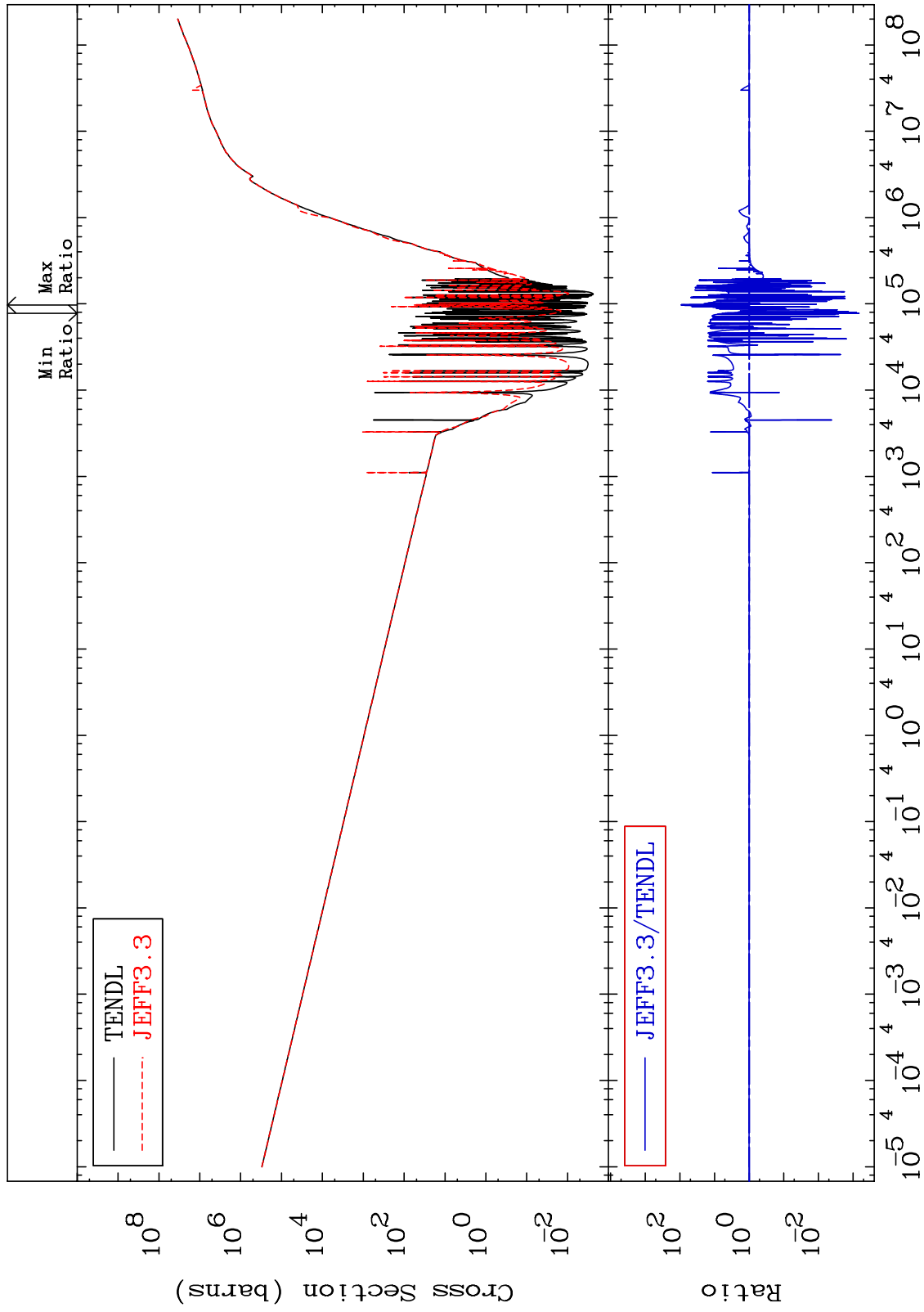
19-K -39
-98.65 To 9999. %



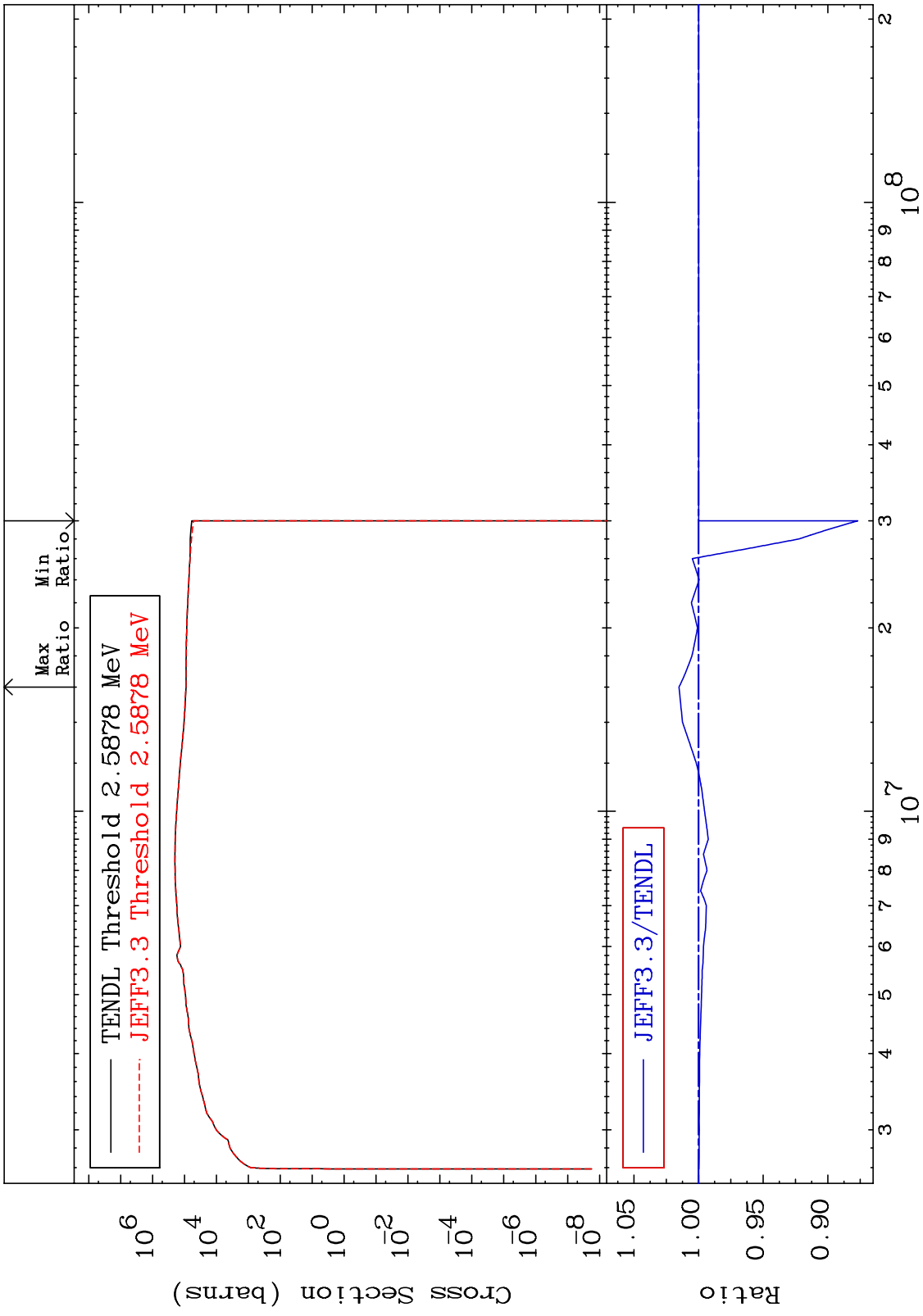
MAT 1925

Kerma non-elastic (all but mt2)
Cross Section

19-K -39
-99.93 To 9389. %



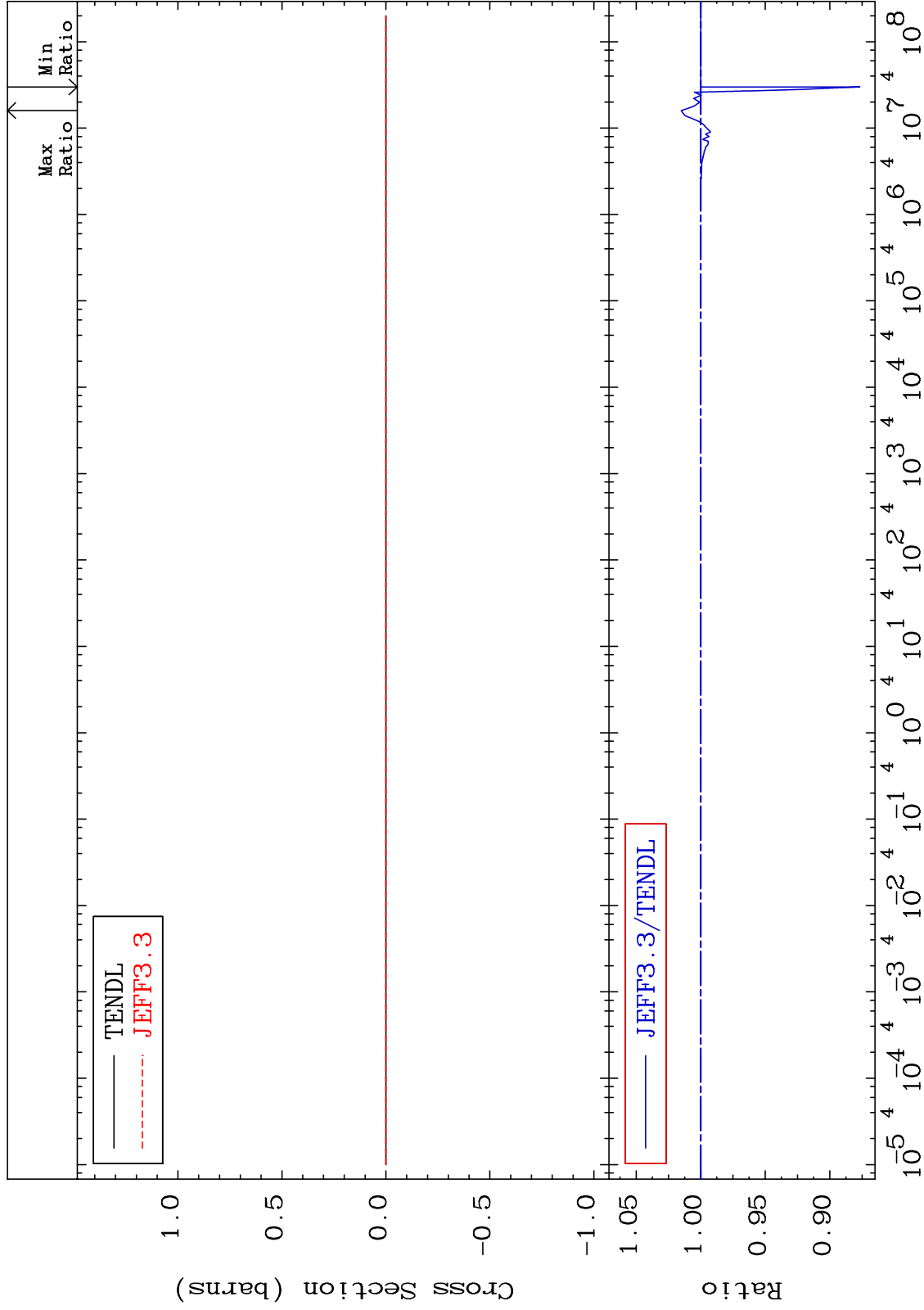
MAT 1925 Kerma inelastic (mt51-91) 19-K -39
 -12.31 To 1.507 %



MAT 1925

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

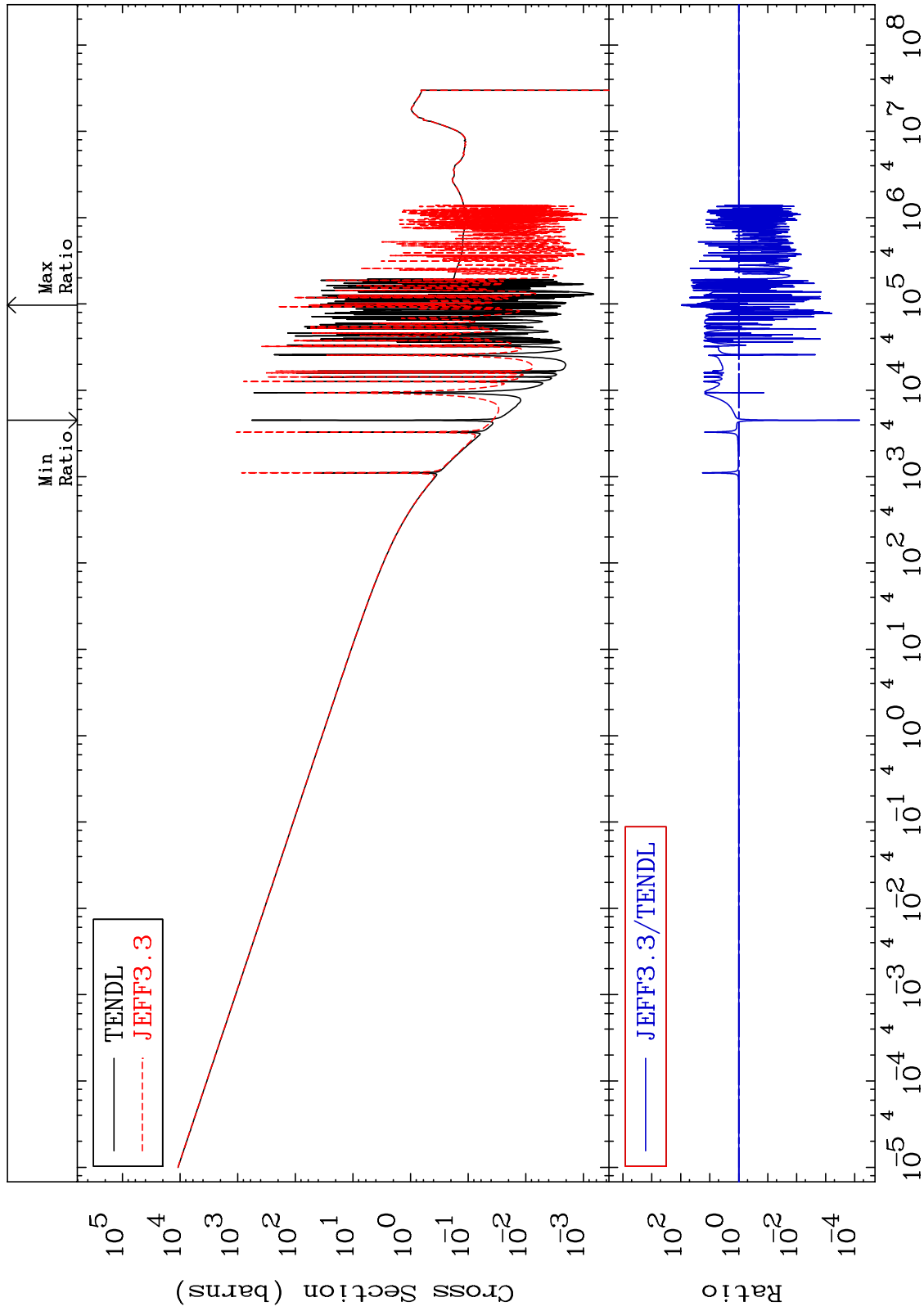
19-K -39
-12.31 To 1.507 %



MAT 1925

Kerma capture (mt102)
Cross Section

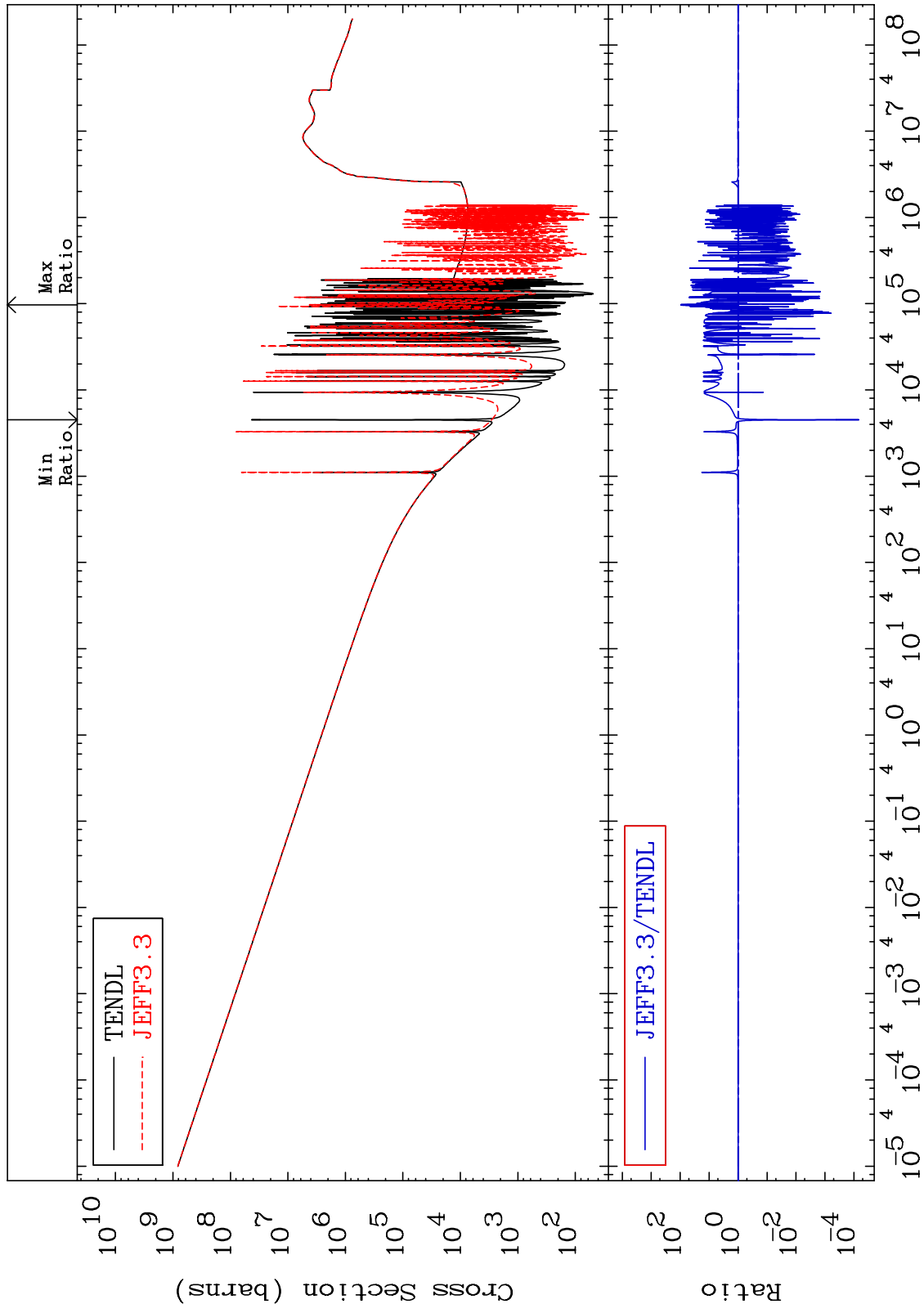
19-K -39
-99.99 To 9549. %



MAT 1925

Total photon (eV-barns)
Cross Section

19-K -39
-99.99 To 9549. %



70

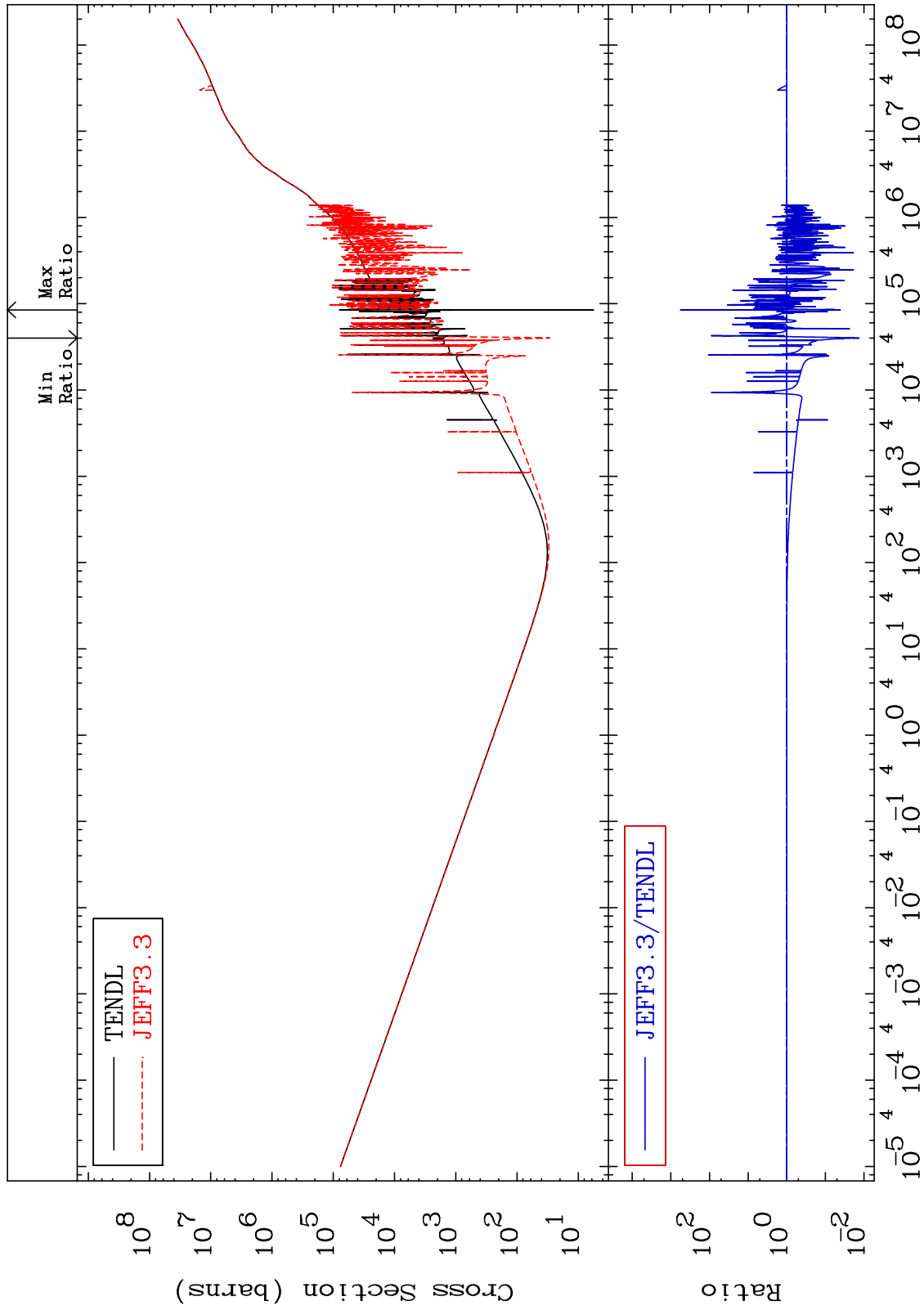
Incident Energy (eV)

19-K -39

MAT 1925

Total kinematic kerma (high limit)
Cross Section

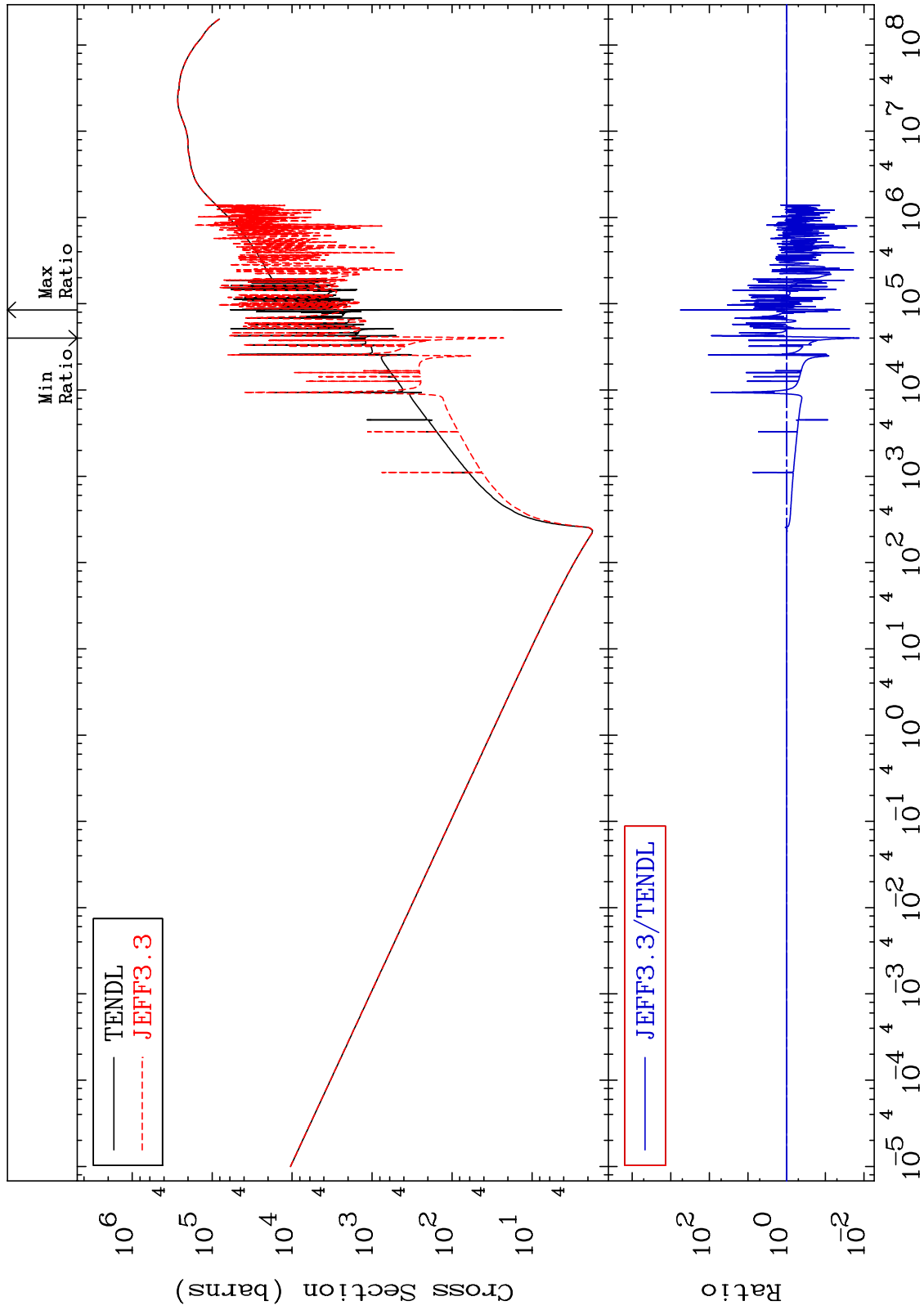
19-K -39
-98.65 To 9999. %



MAT 1925

Dpa total (eV-barns)
Cross Section

19-K -39
-98.65 To 9999. %



72

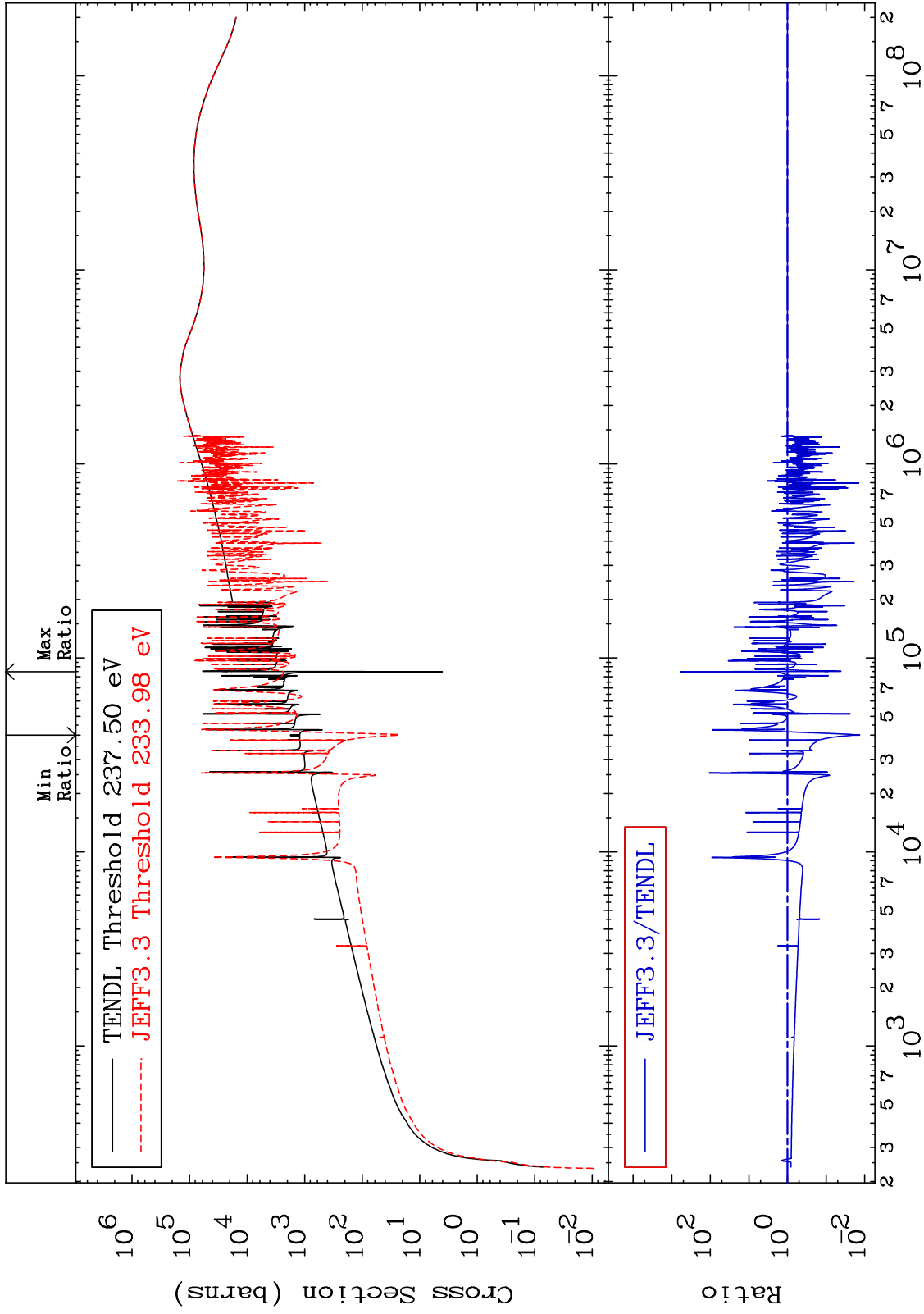
Incident Energy (eV)

19-K -39

MAT 1925

Dpa elastic (mt2)
Cross Section

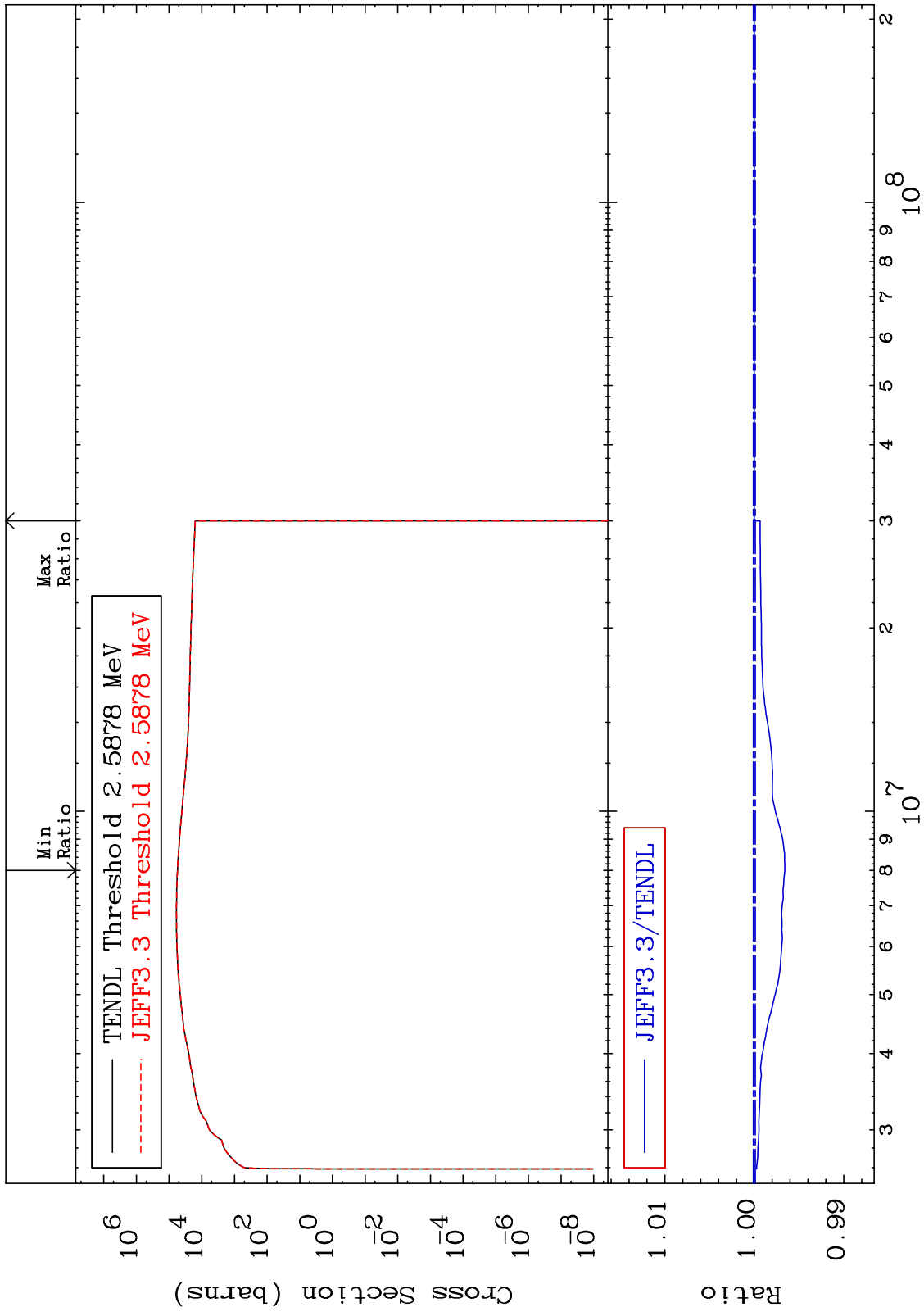
19-K -39
-98.65 To 9999. %



MAT 1925

Dpa inelastic (mt51-91)
Cross Section

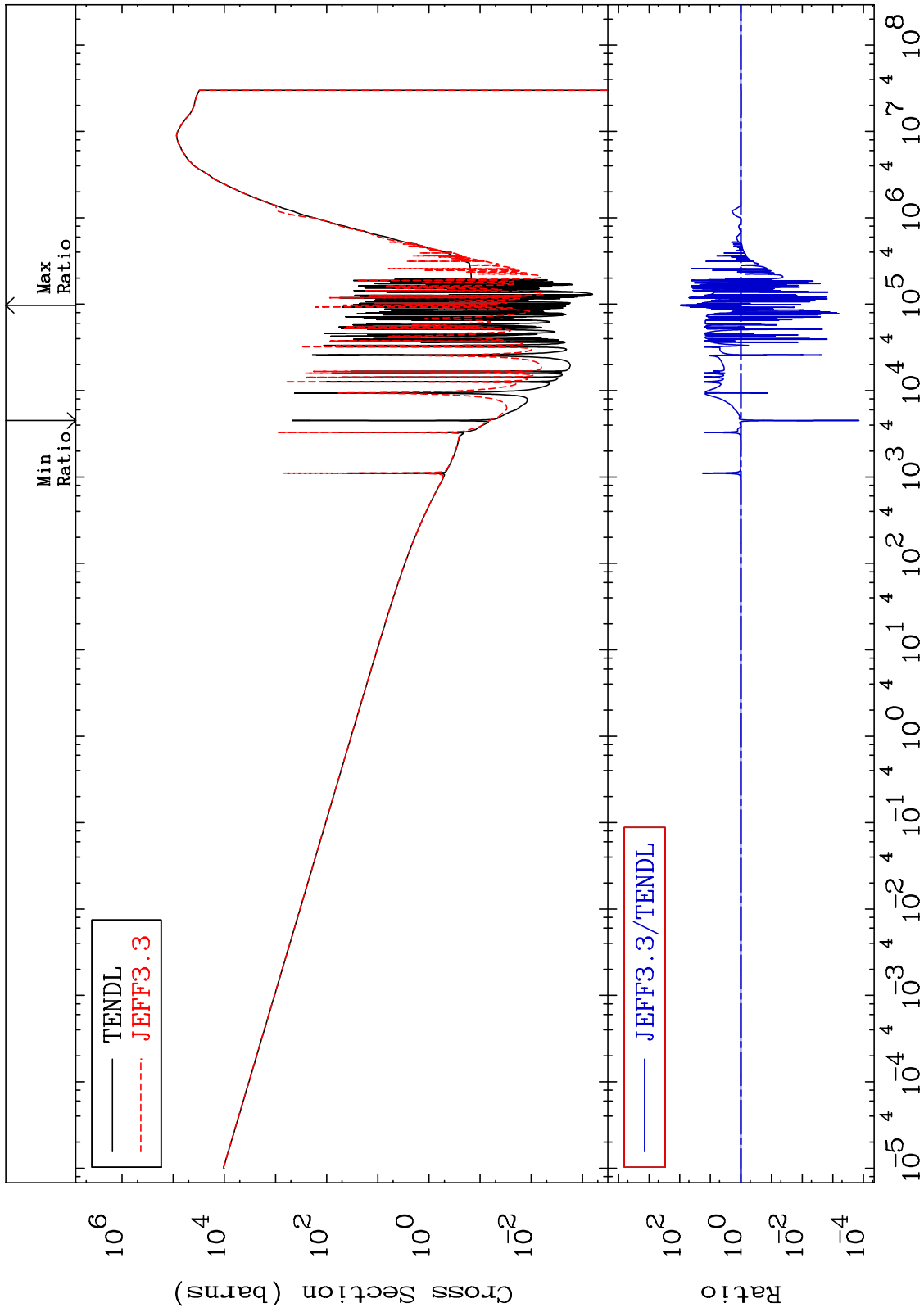
19-K -39
-0.341 To 0.000 %



MAT 1925

Dpa disappearance (mt102 -120)
Cross Section

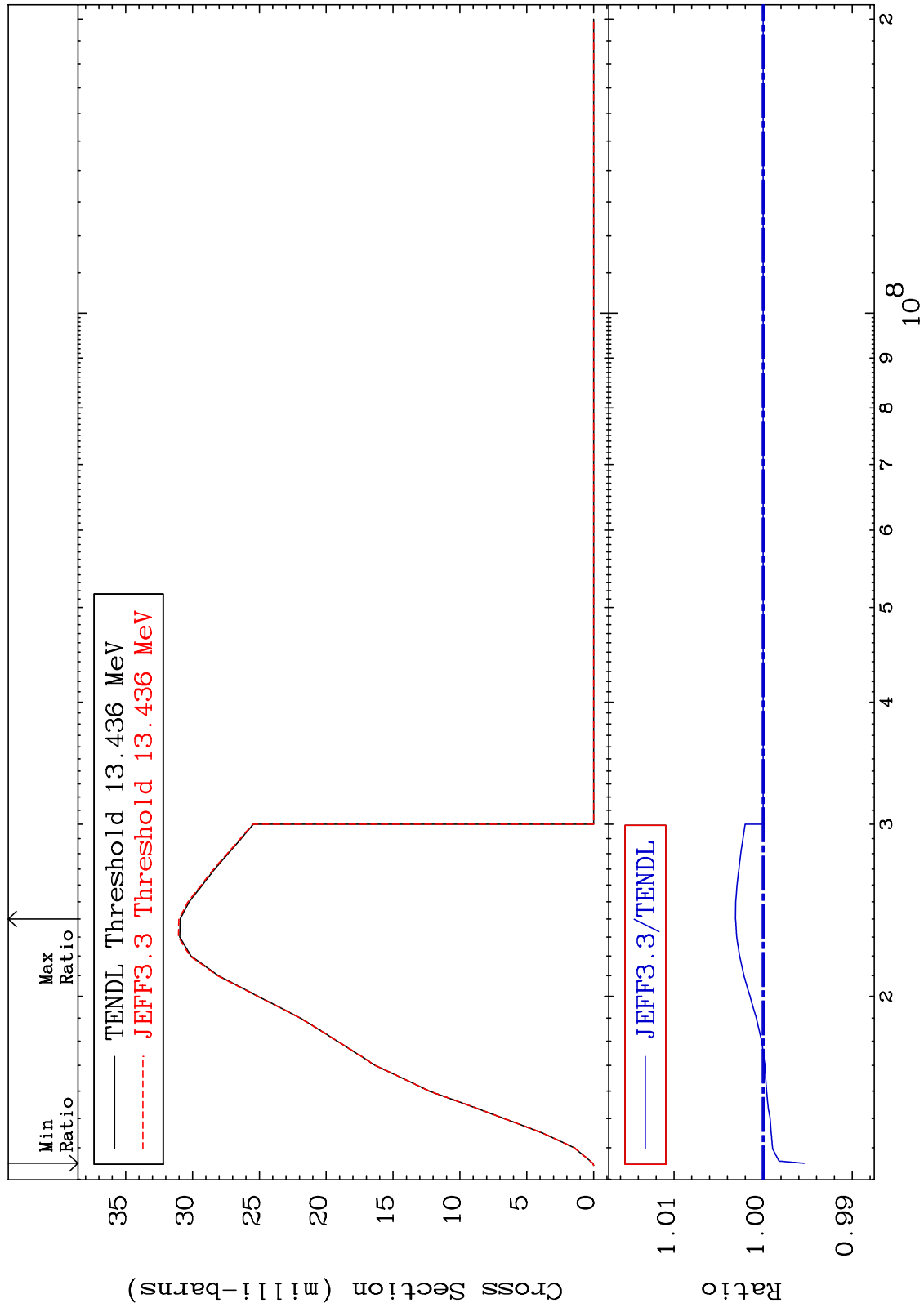
19-K -39
-99.99 To 9540. %



75

Incident Energy (eV)

19-K -39

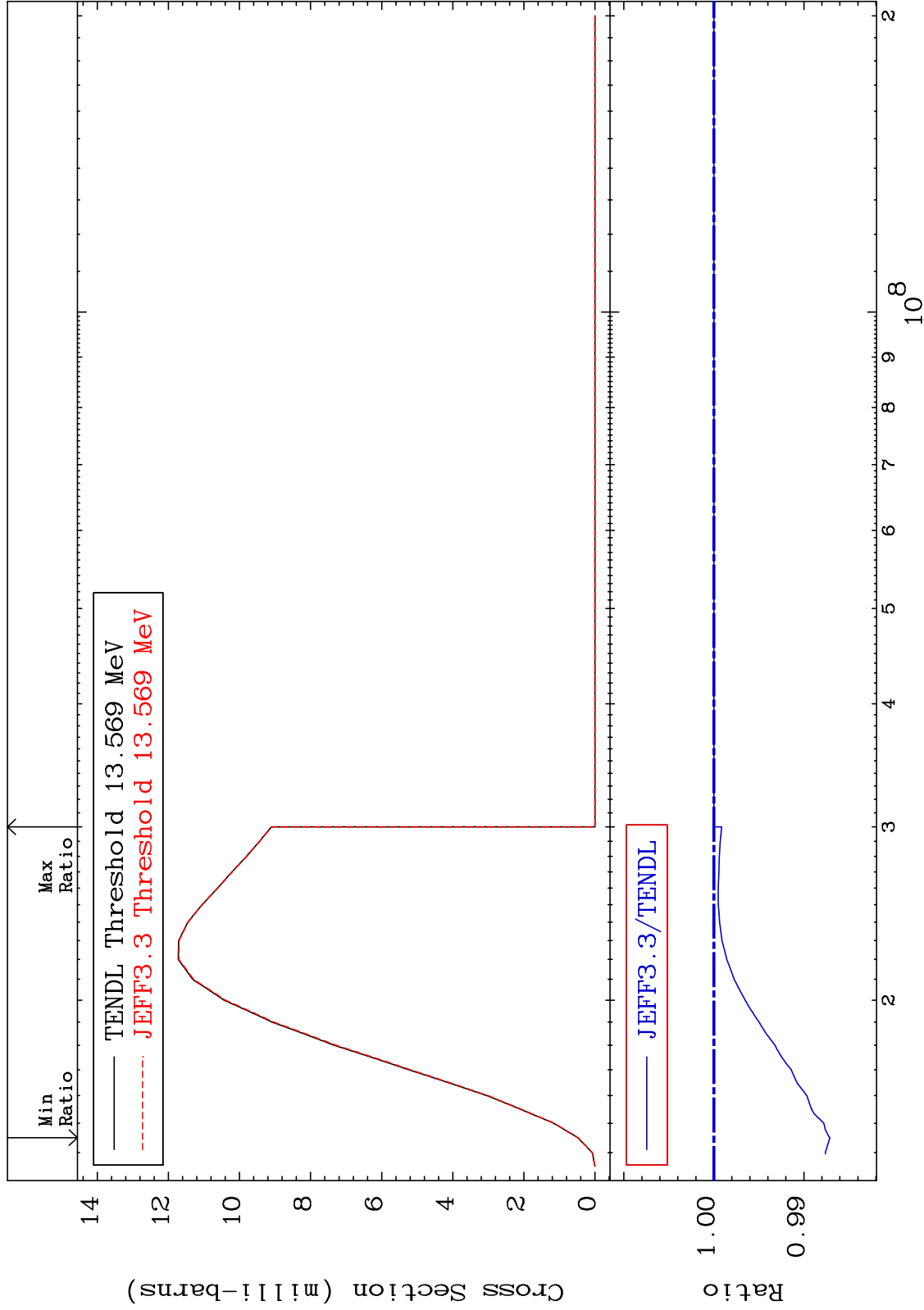


MAT 1925

(n,2n):19-K -38m1

19-K -39

Radionuclide Production Cross Section -1.289 To 0.000 %

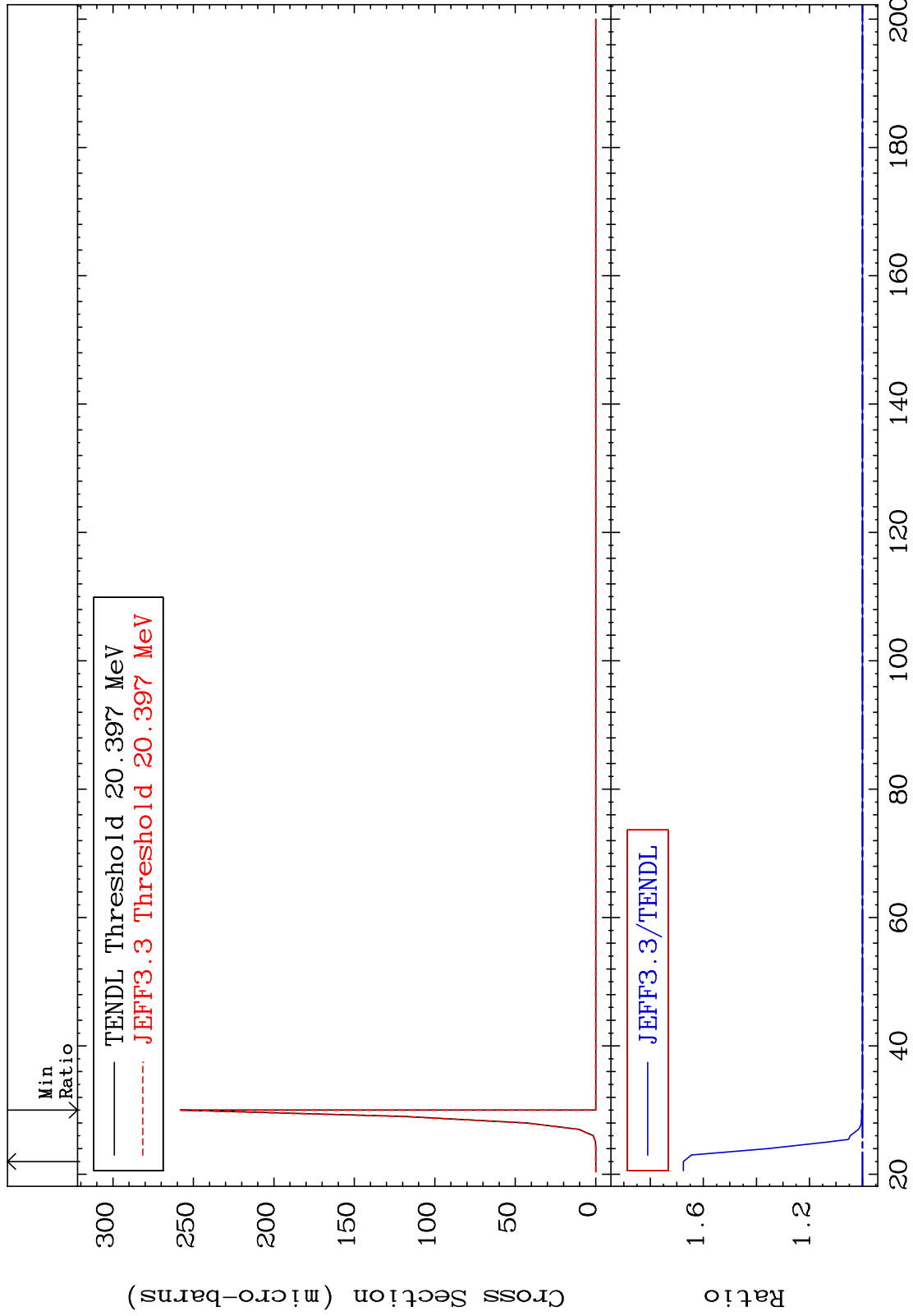


MAT 1925

(n,2n) α :17-Cl-34g

19-K -39

Radionuclide Production Cross Section 0.000 To 67.50 %



78

Incident Energy (MeV)

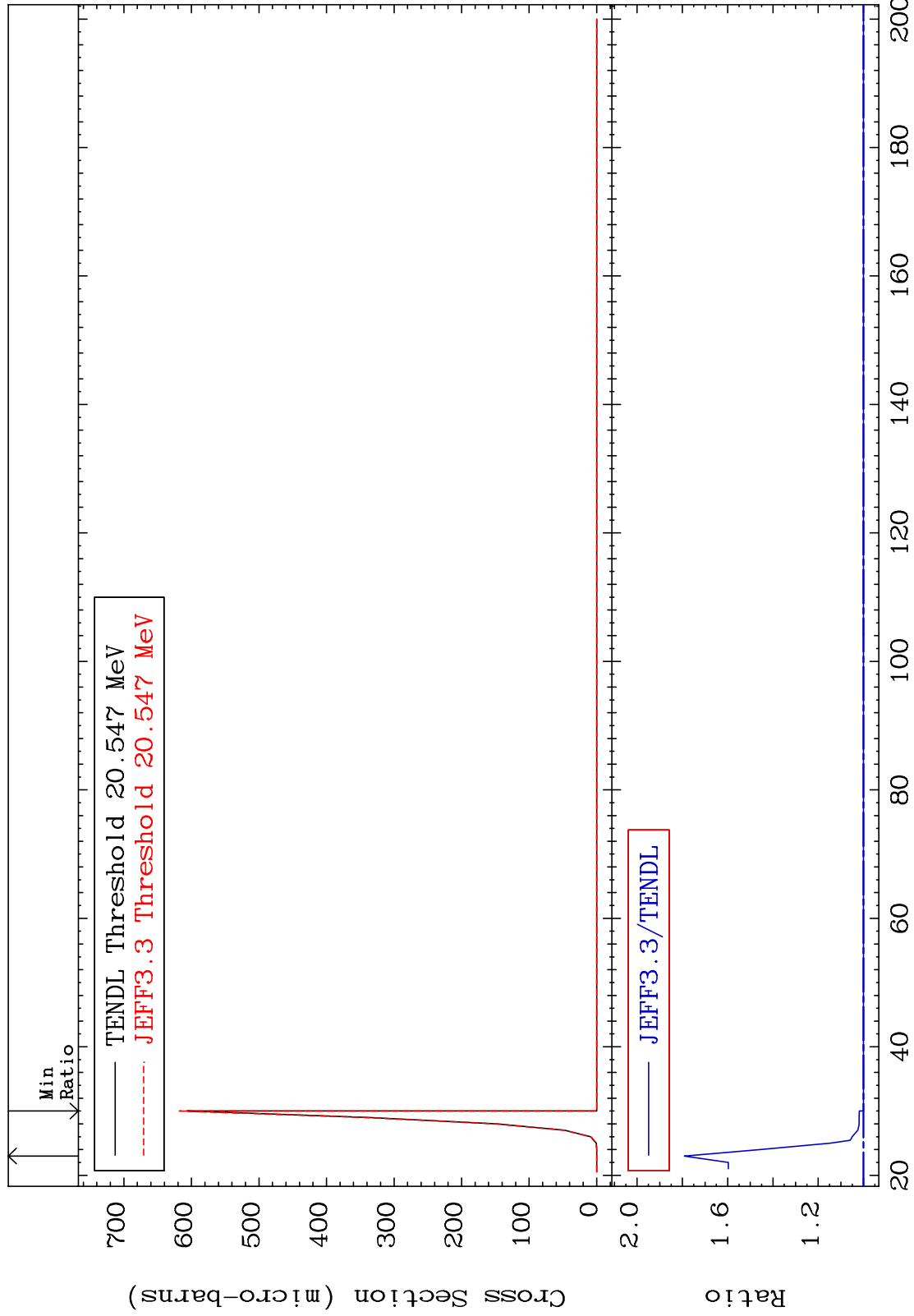
19-K -39

MAT 1925

(n,2n) α :17-Cl-34m1

19-K -39

Radionuclide Production Cross Section 0.000 To 79.12 %



79

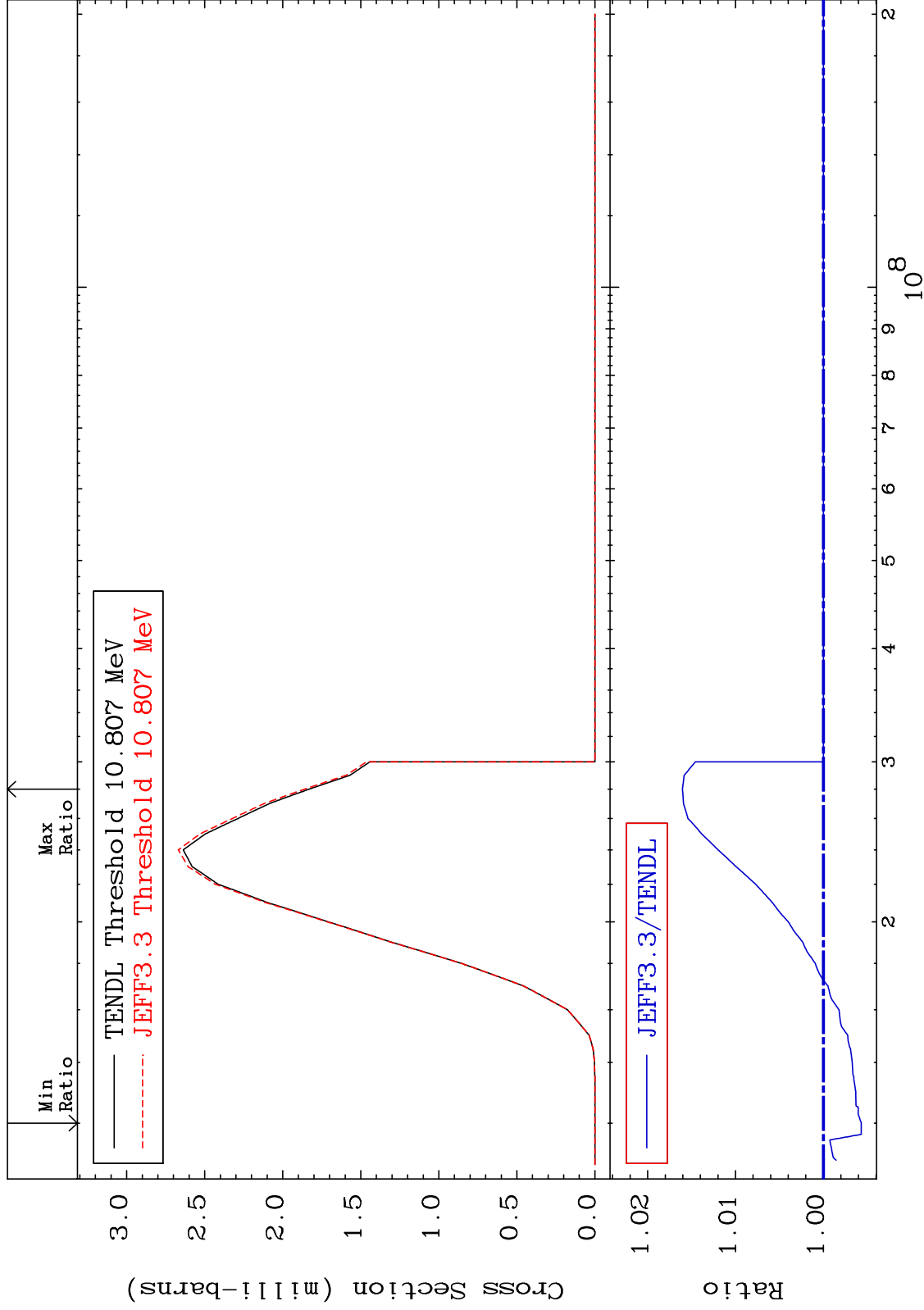
19-K -39

MAT 1925

(n,2p) : 17-Cl-38g

19-K -39

Radionuclide Production Cross Section -0.432 To 1.604 %



80

Incident Energy (eV)

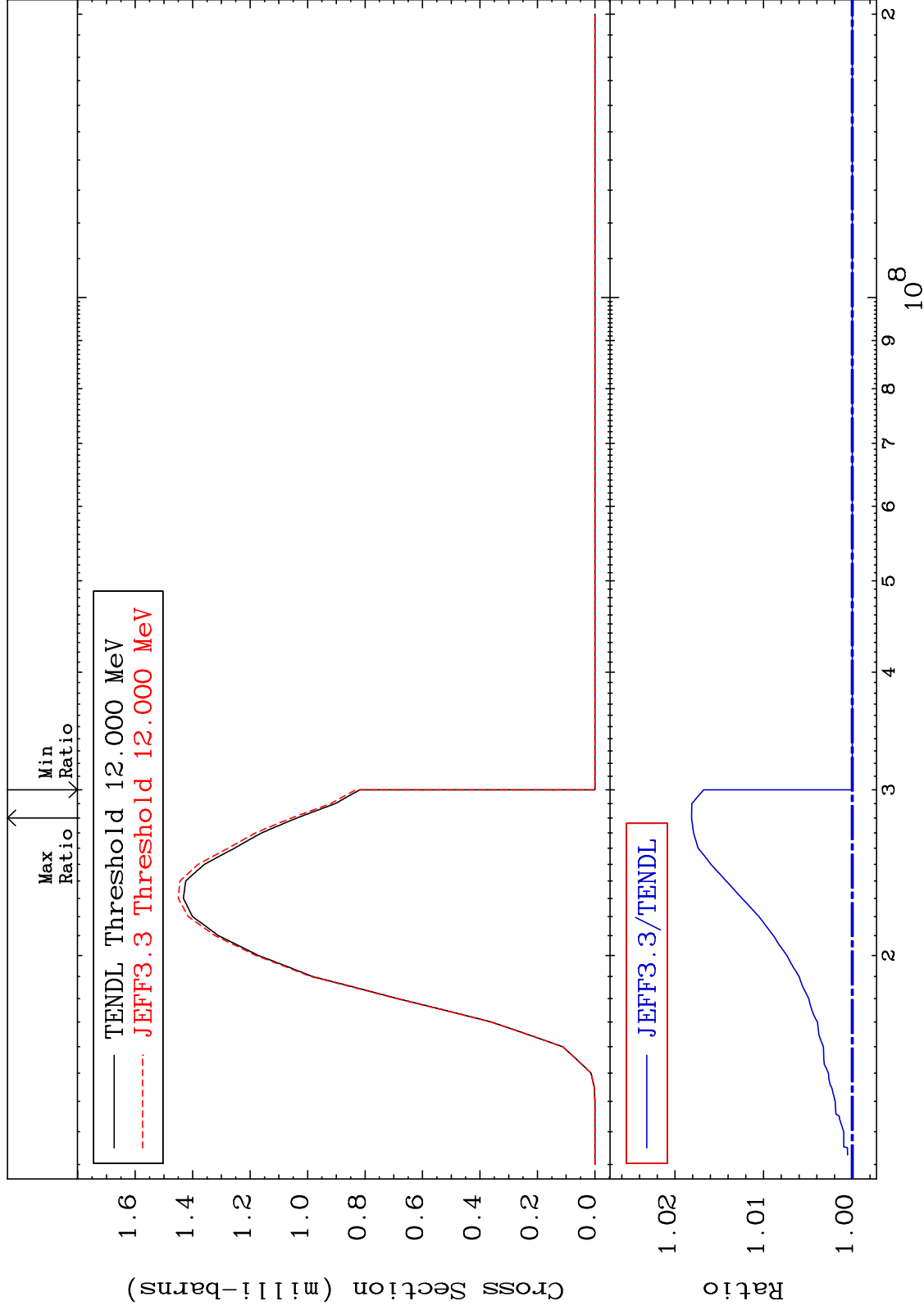
19-K -39

MAT 1925

(n,2p):17-Cl-38m1

19-K -39

Radionuclide Production Cross Section 0.000 To 1.813 %



81

Incident Energy (eV)

19-K -39