

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

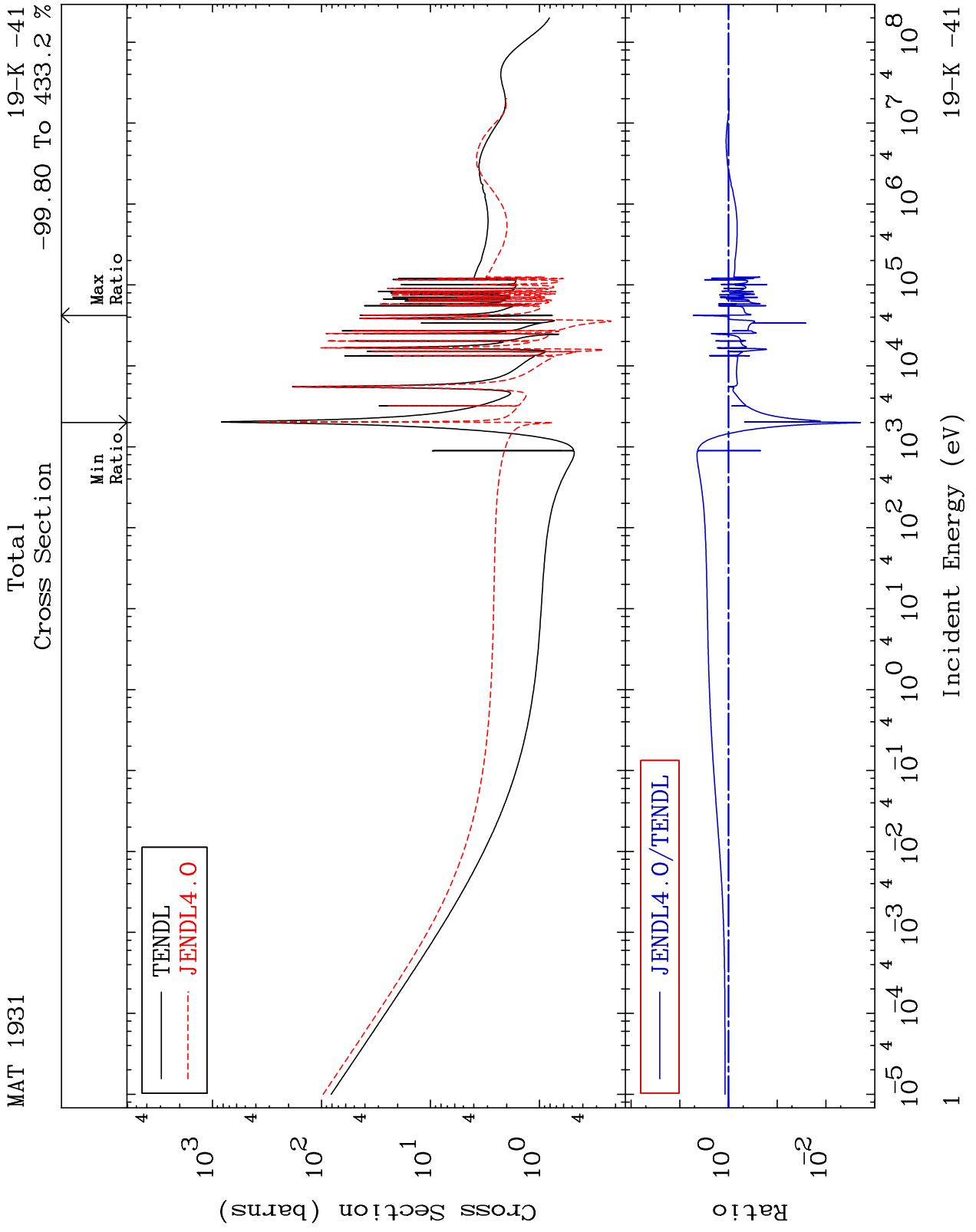
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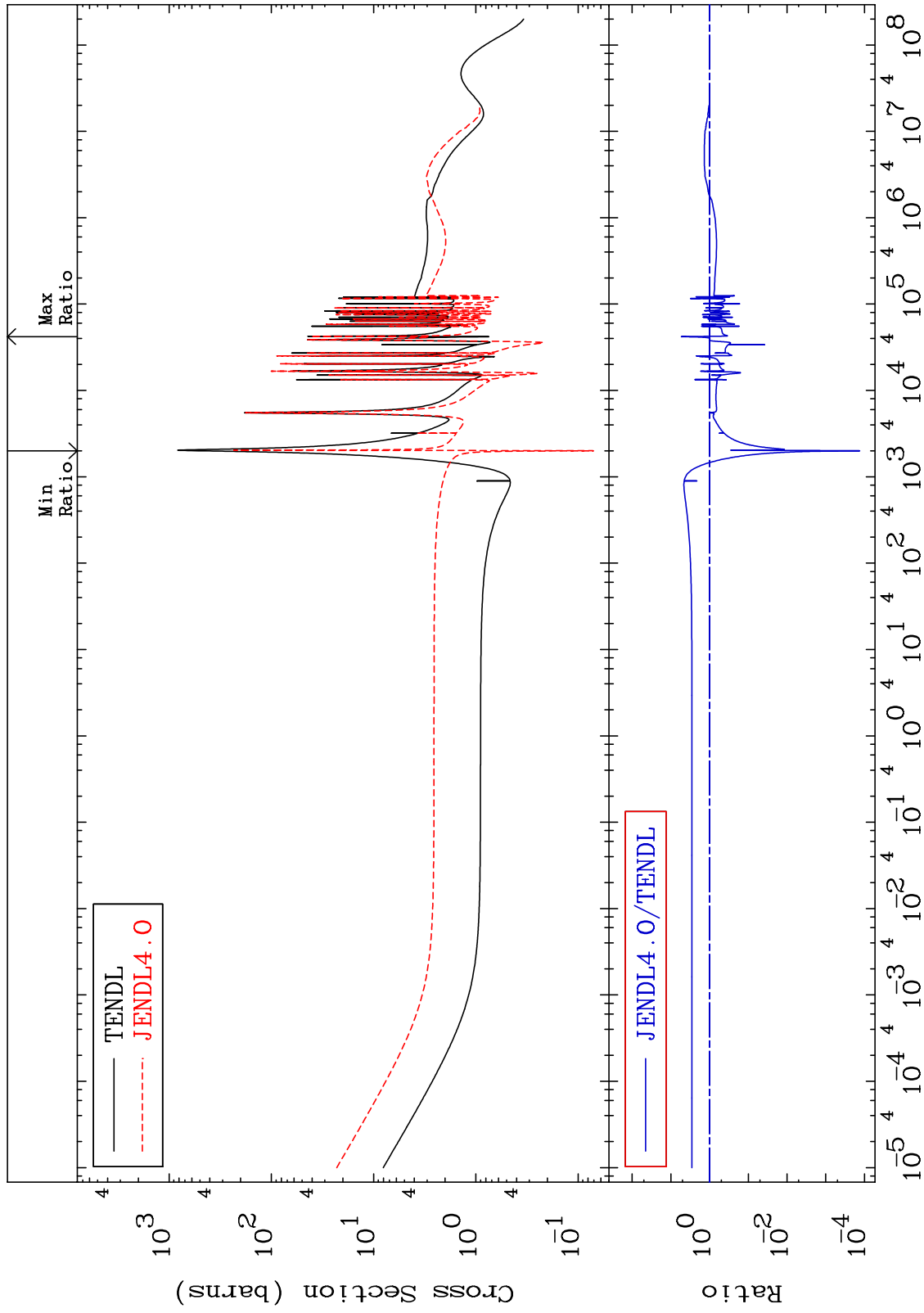
Press Mouse Button to Start



MAT 1931

Elastic
Cross Section

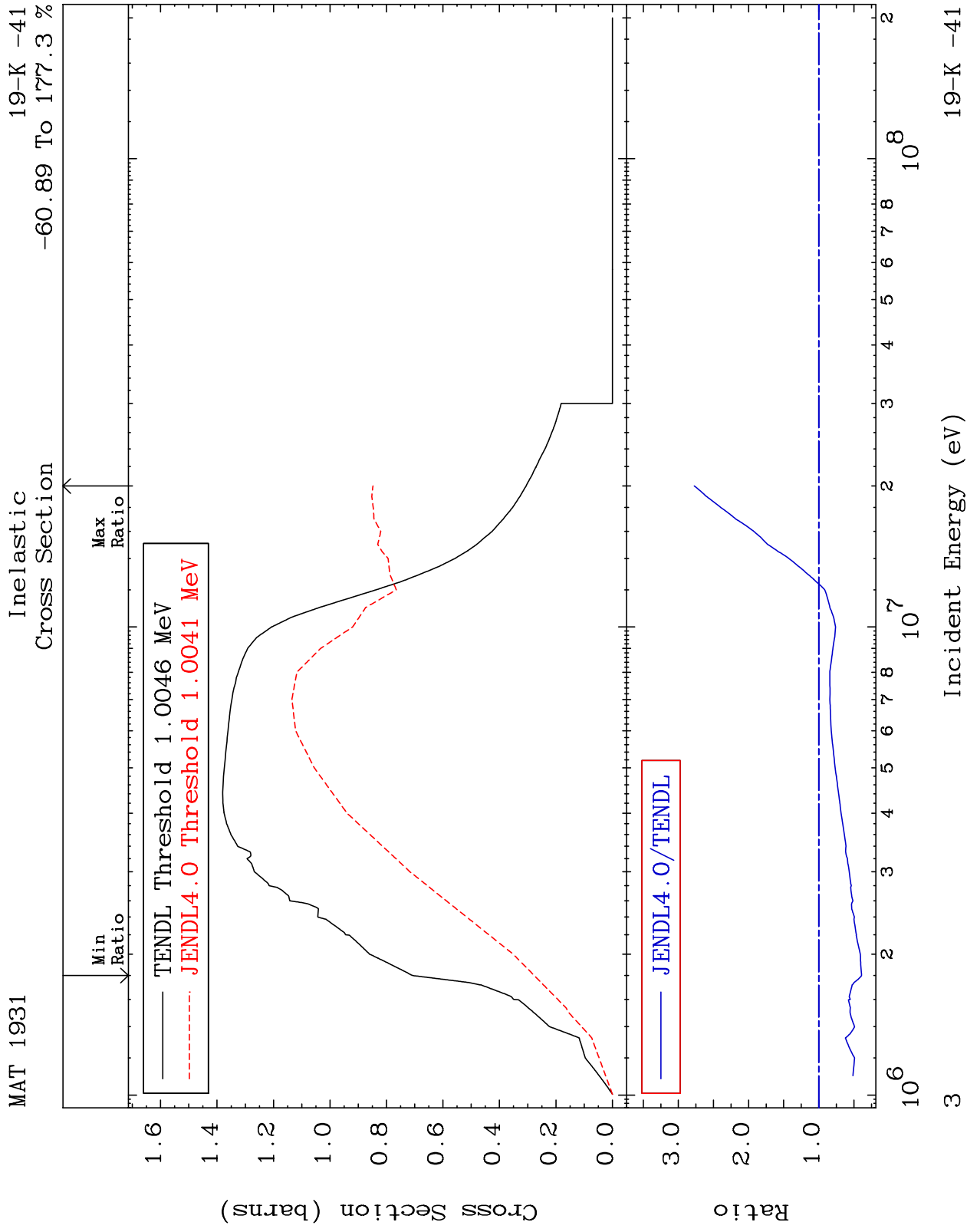
19-K -41
-99.99 To 439.5 %



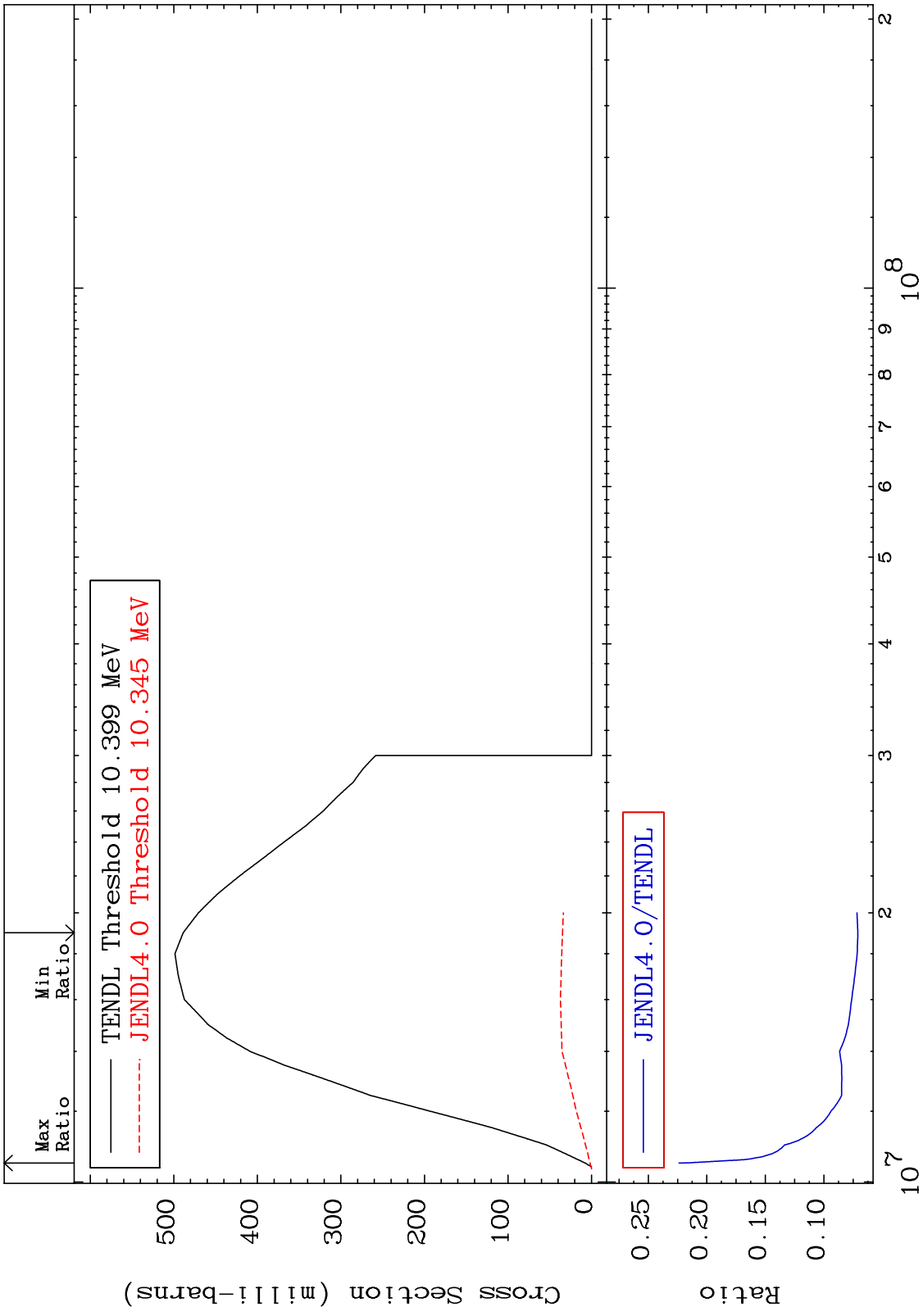
2

Incident Energy (eV)

19-K -41

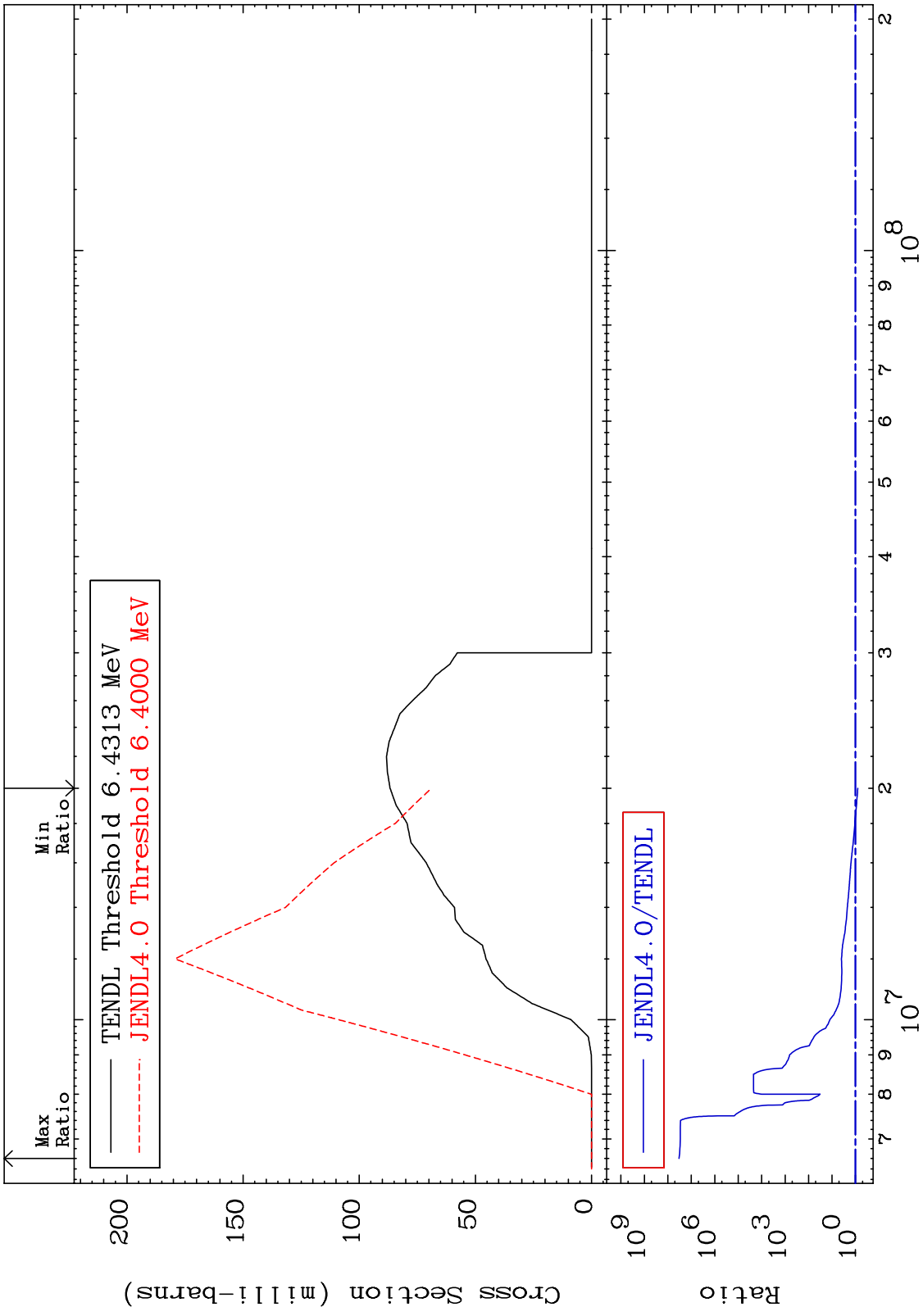


MAT 1931 (n,2n) Cross Section 19-K -41
 -92.90 To -77.63%

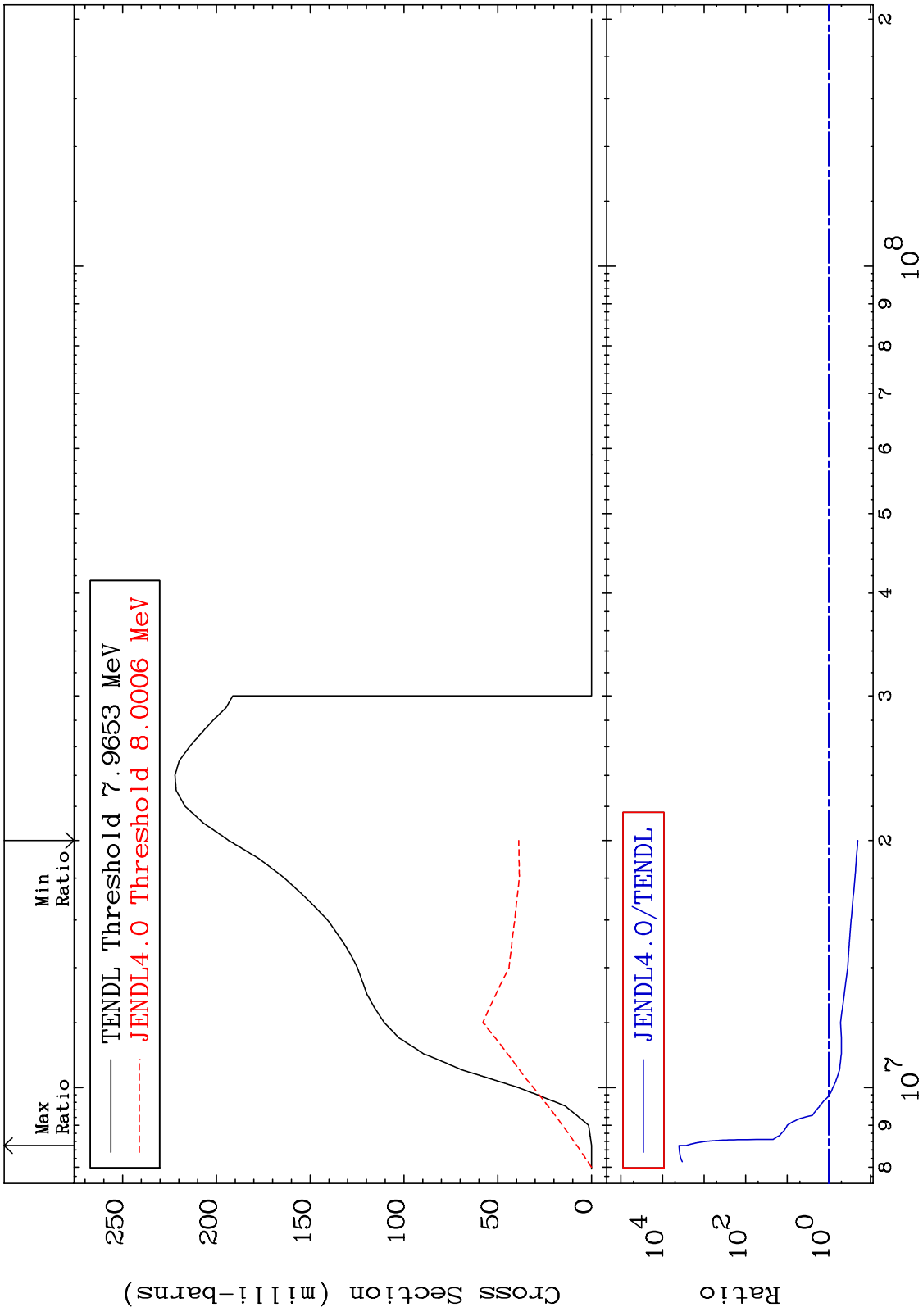


19-K -41

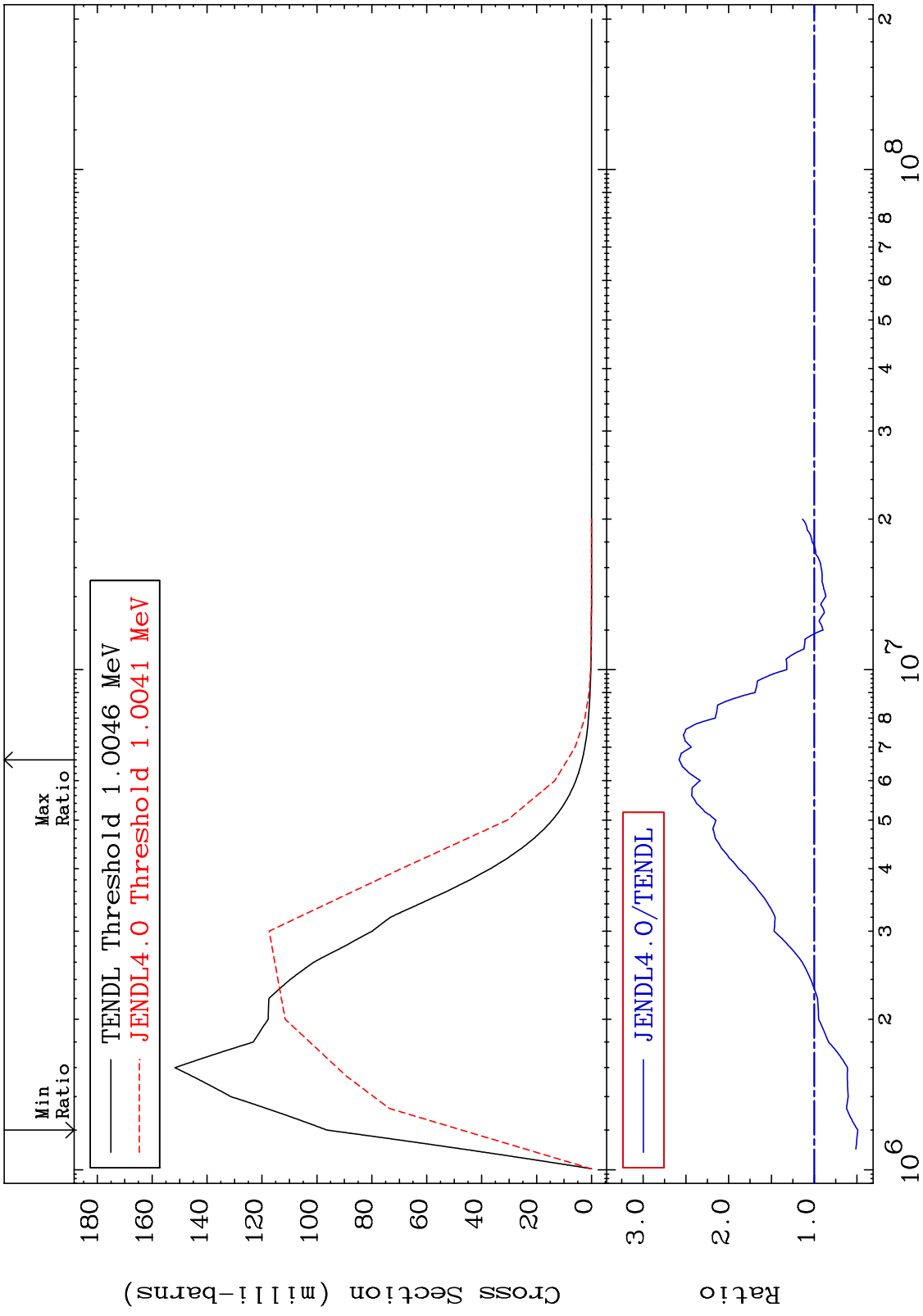
MAT 1931 (n,n') α 19-K -41
 Cross Section -20.62 To 9999. %



MAT 1931 (n,n') p 19-K -41
 Cross Section -79.95 To 9999. %

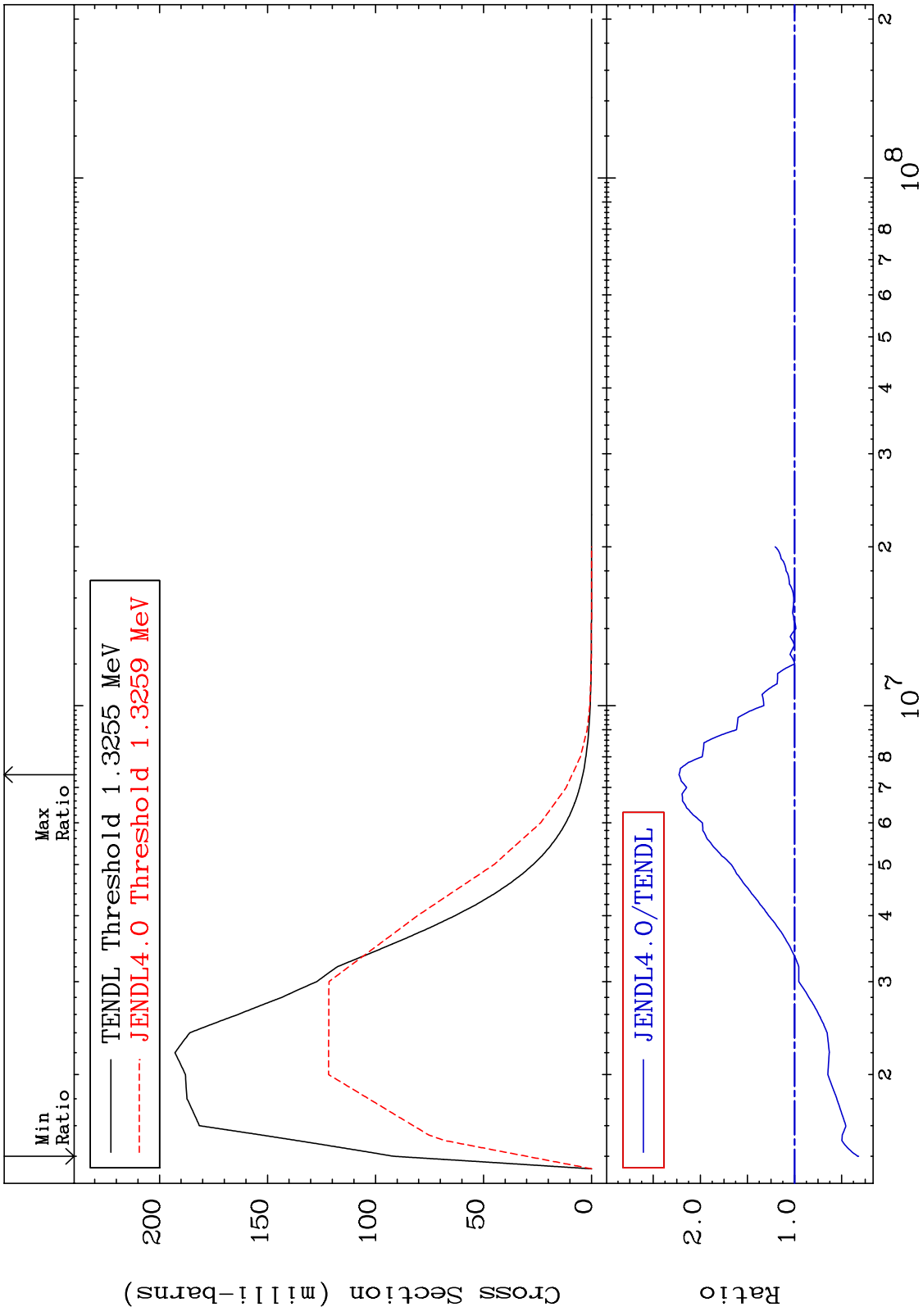


MAT 1931 MT= 51 (n,n') Level Cross Section -50.98 To 158.0 % 19-K -41



Incident Energy (eV) 19-K -41

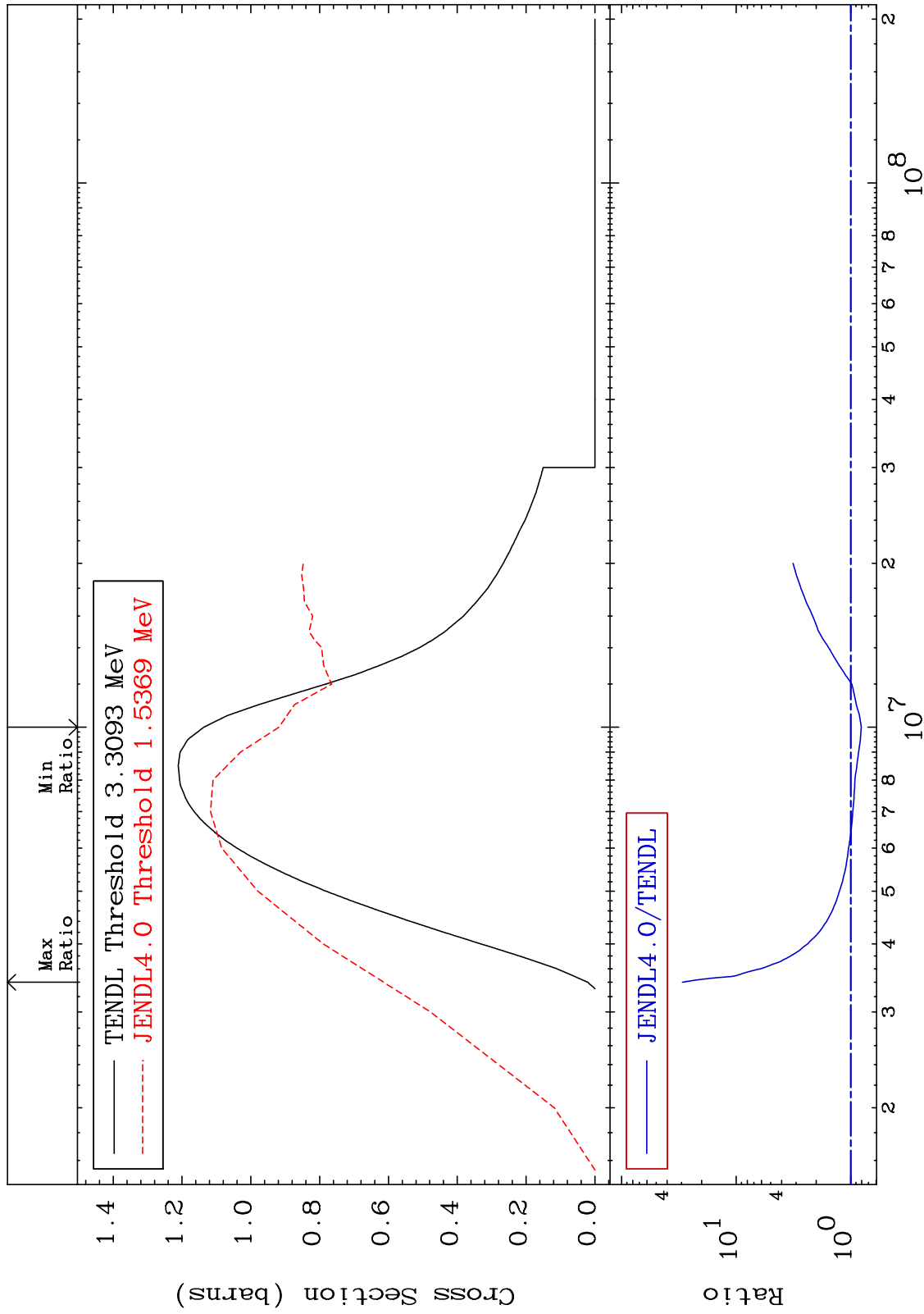
MAT 1931 MT= 52 (n,n') Level Cross Section -67.21 To 122.6 % 19-K -41



MAT 1931

(n,n') Continuum
Cross Section

19-K -41
-19.19 To 2843. %



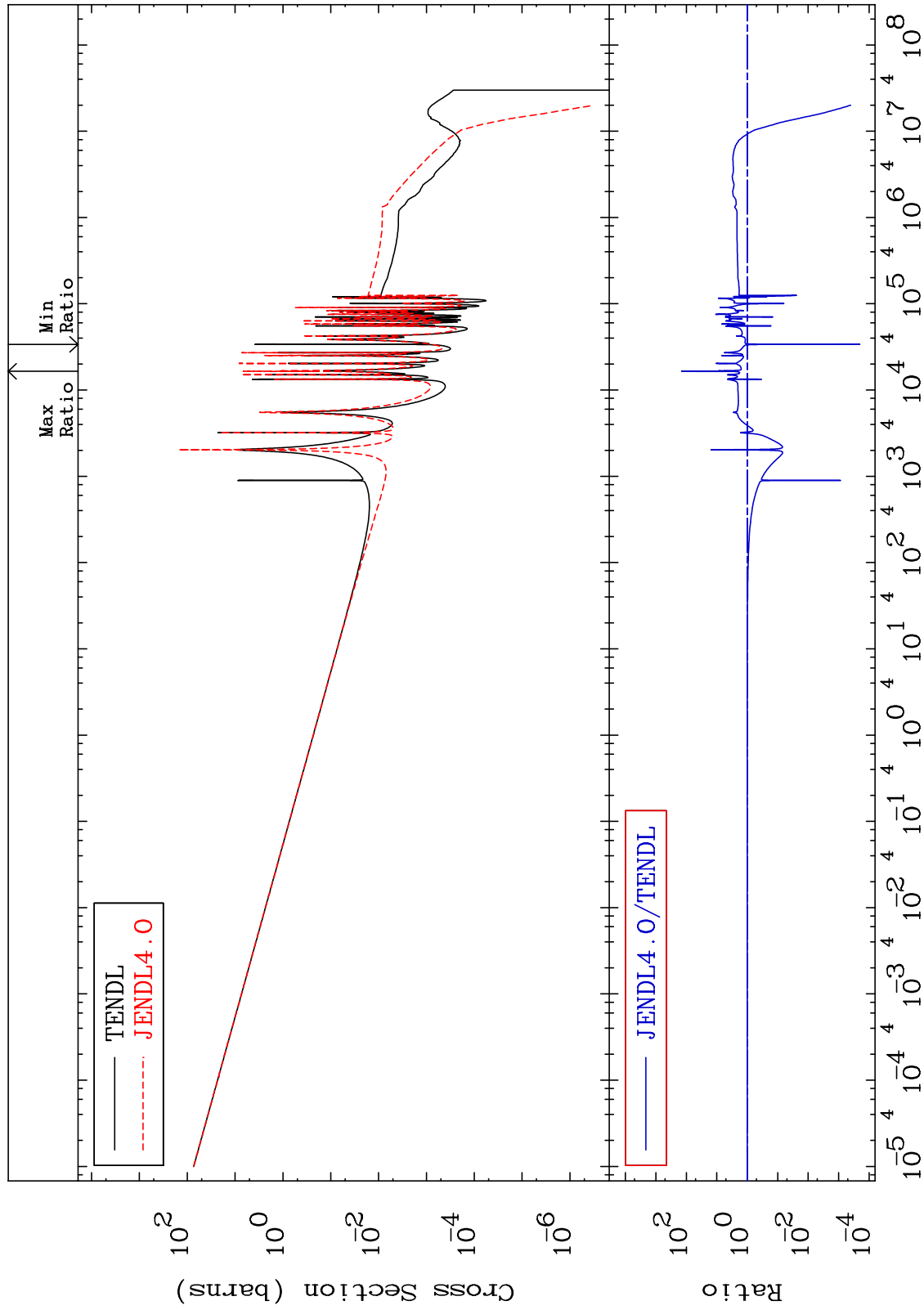
MAT 1931

(n, γ)

19-K -41

Cross Section

-99.98 To 9999. %

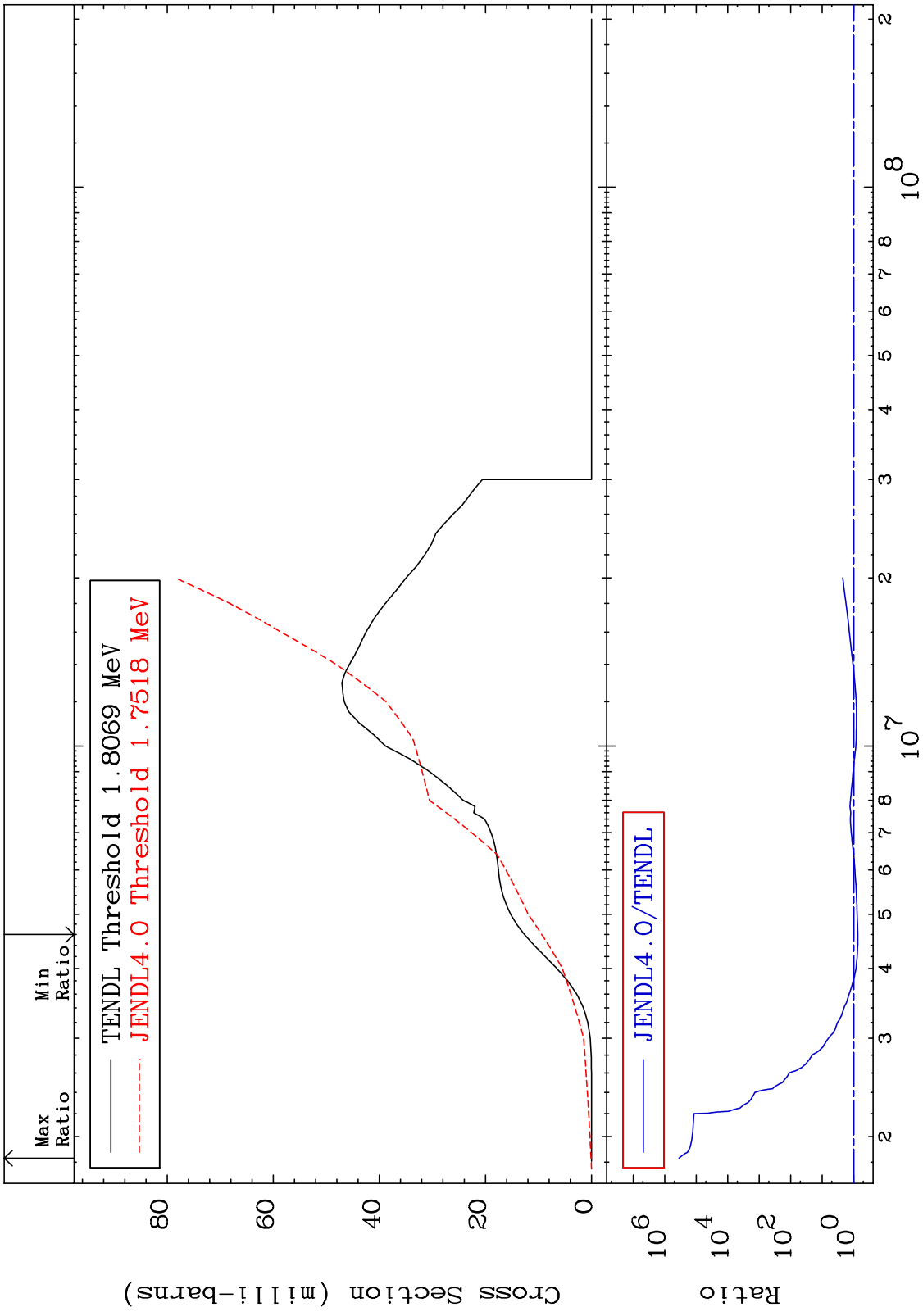


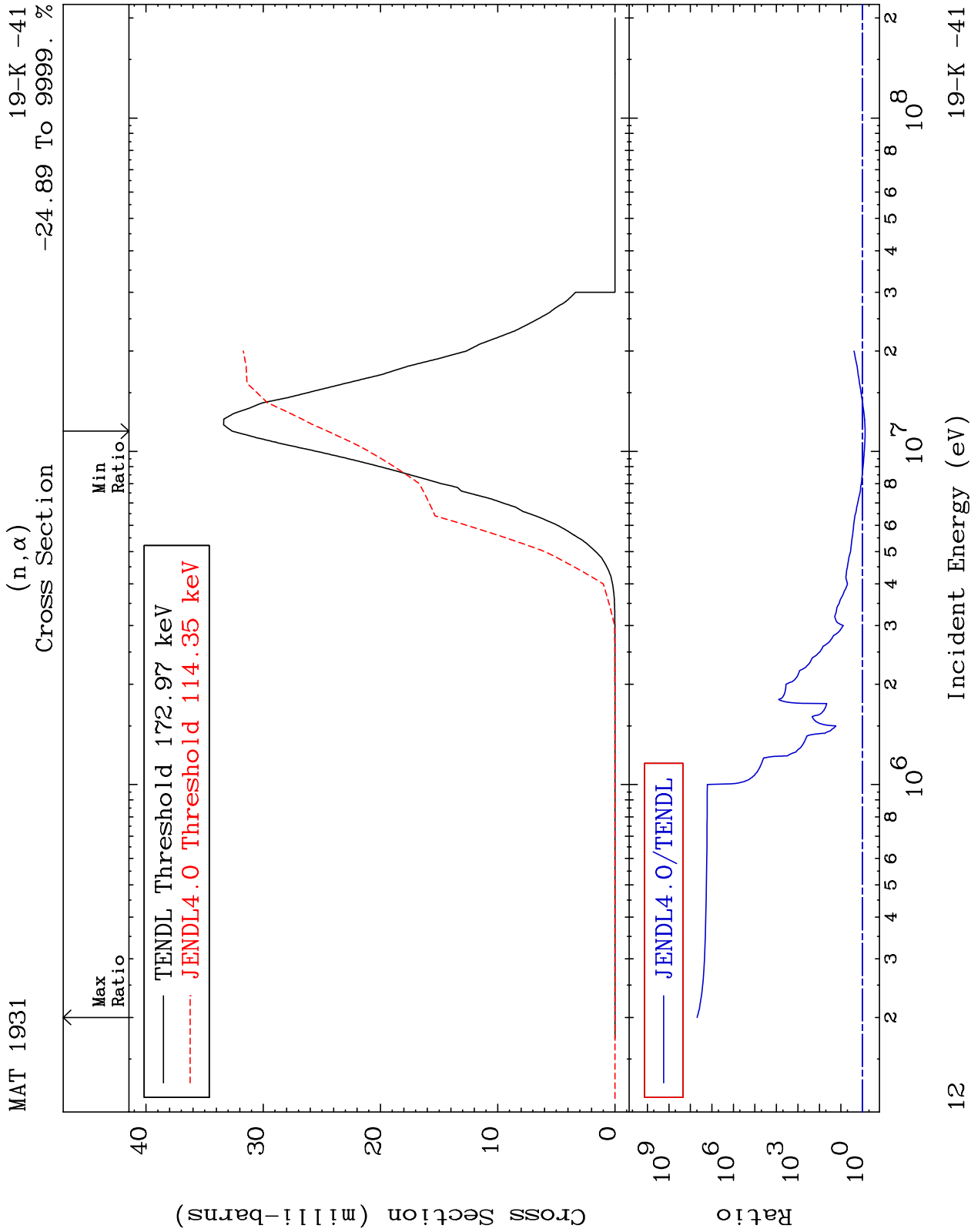
10

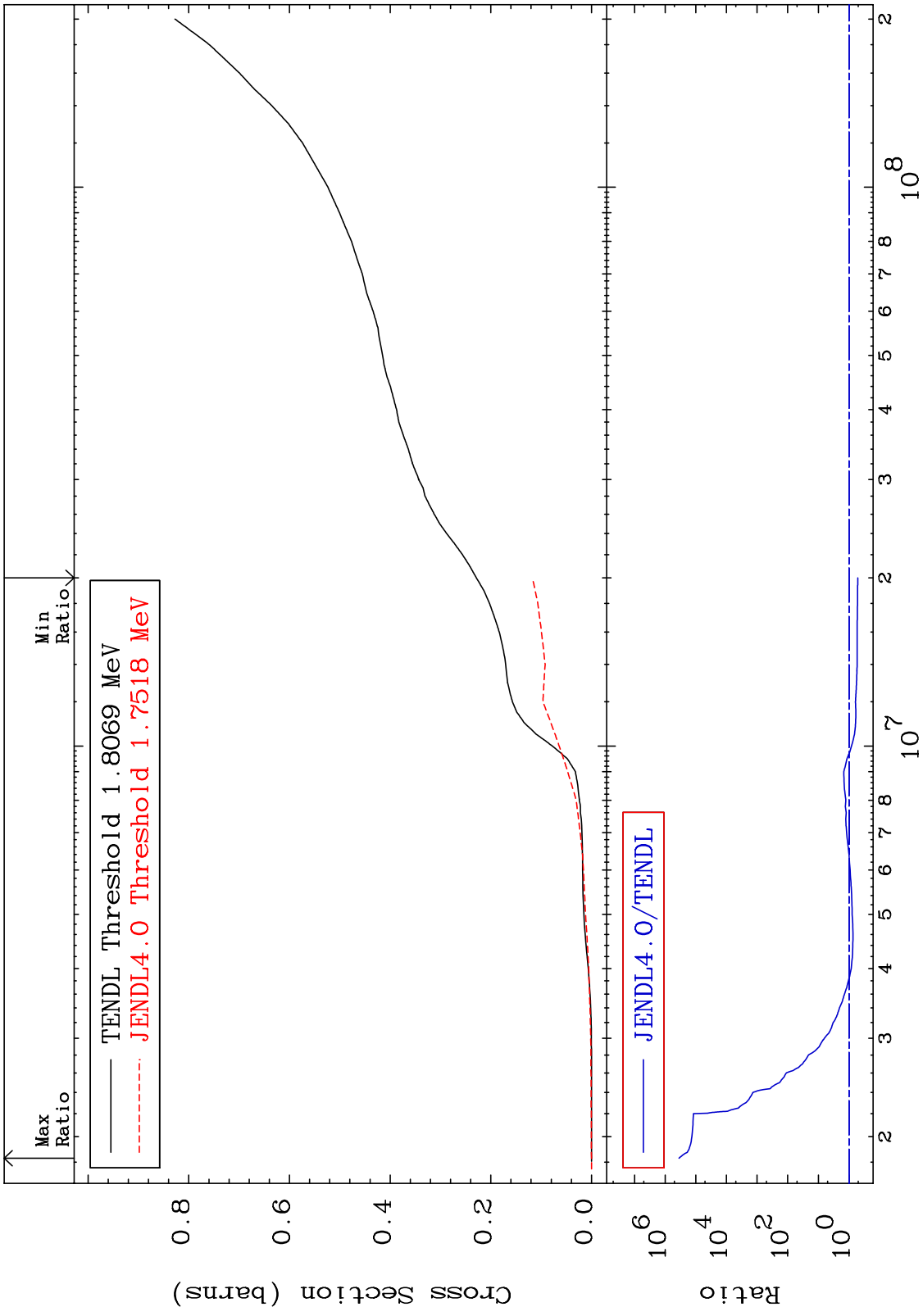
Incident Energy (eV)

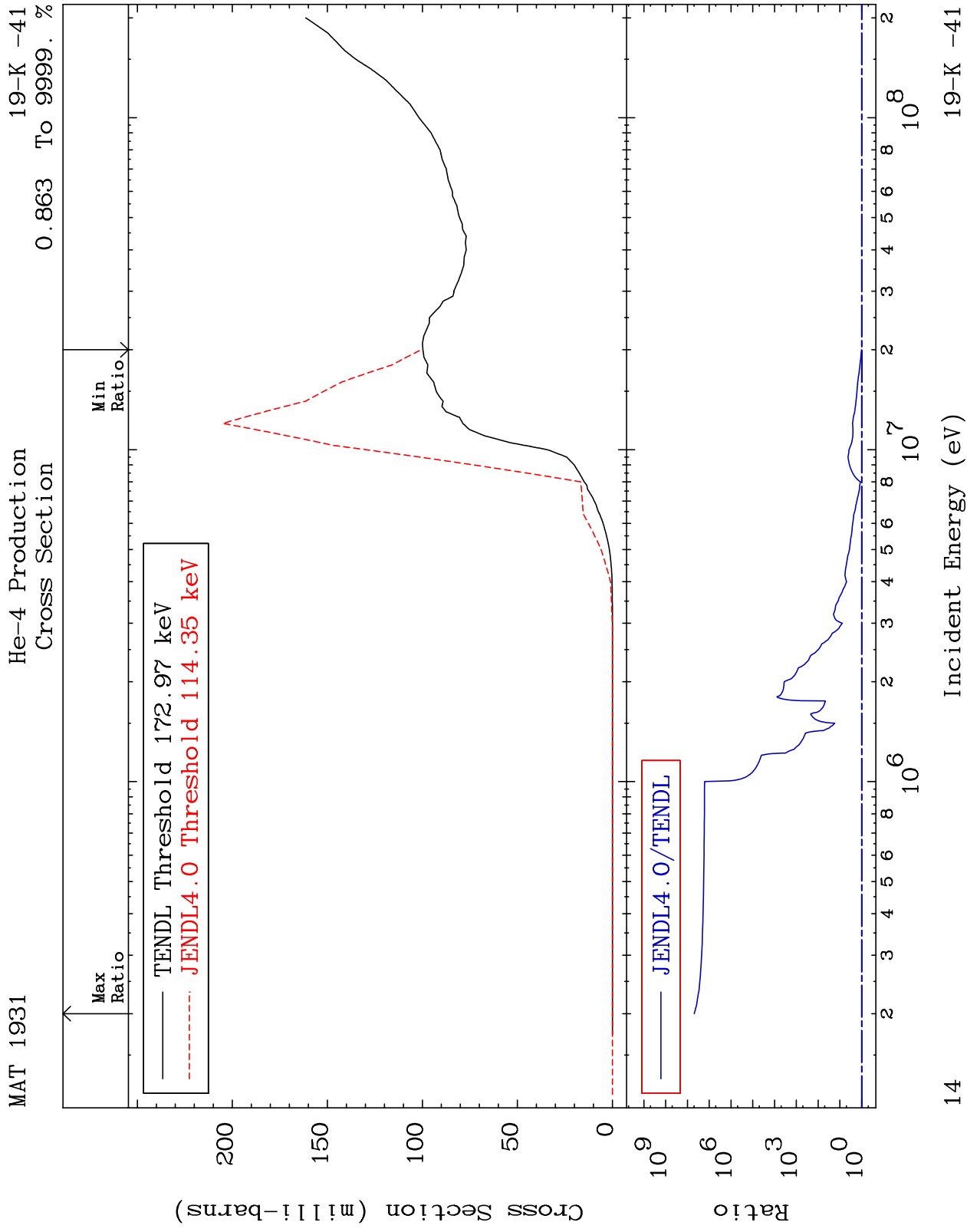
19-K -41

MAT 1931 (n,p) 19-K -41
 Cross Section -25.98 To 9999. %





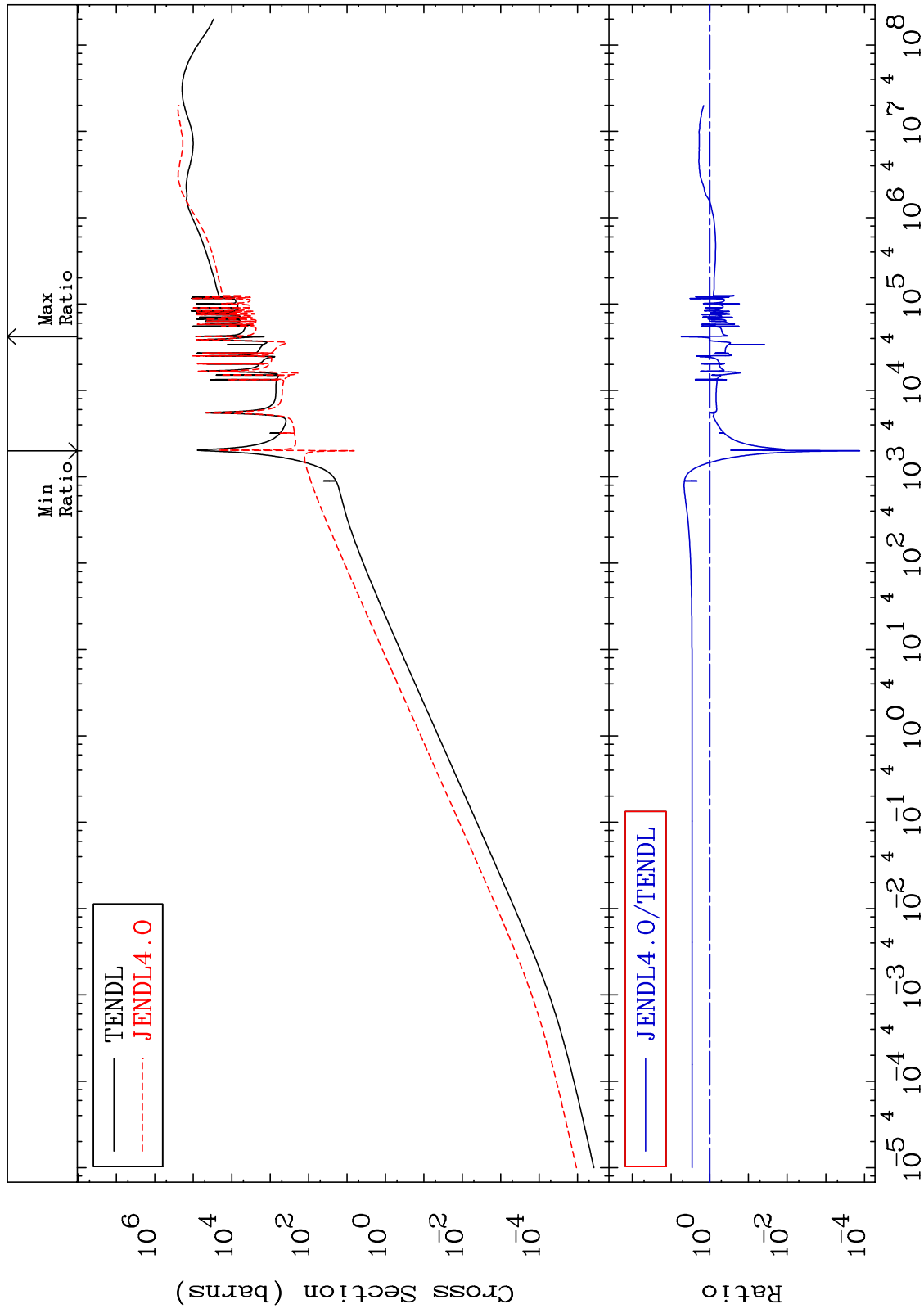




MAT 1931

Kerma elastic
Cross Section

19-K -41
-99.99 To 445.1 %

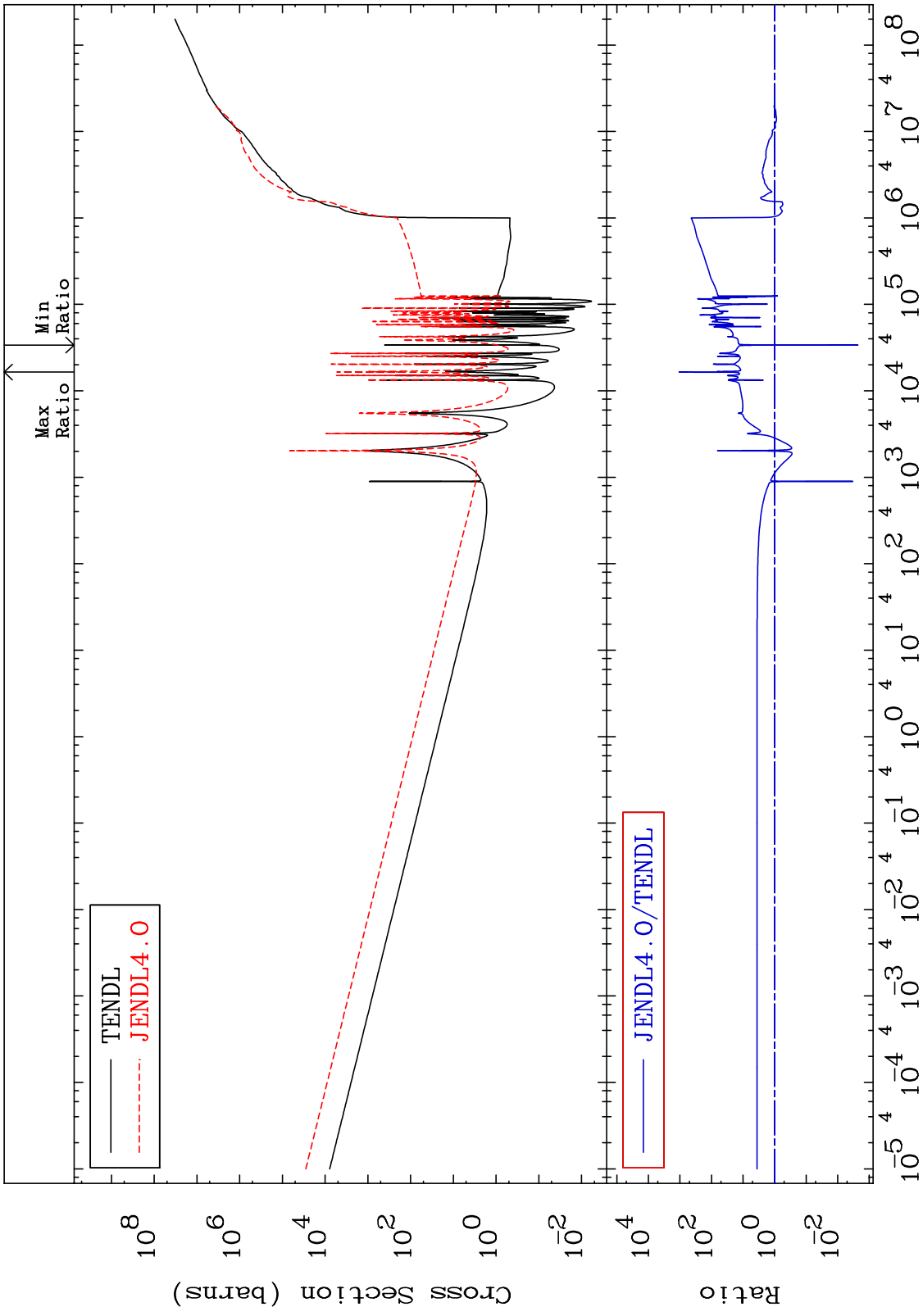


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Incident Energy (eV)

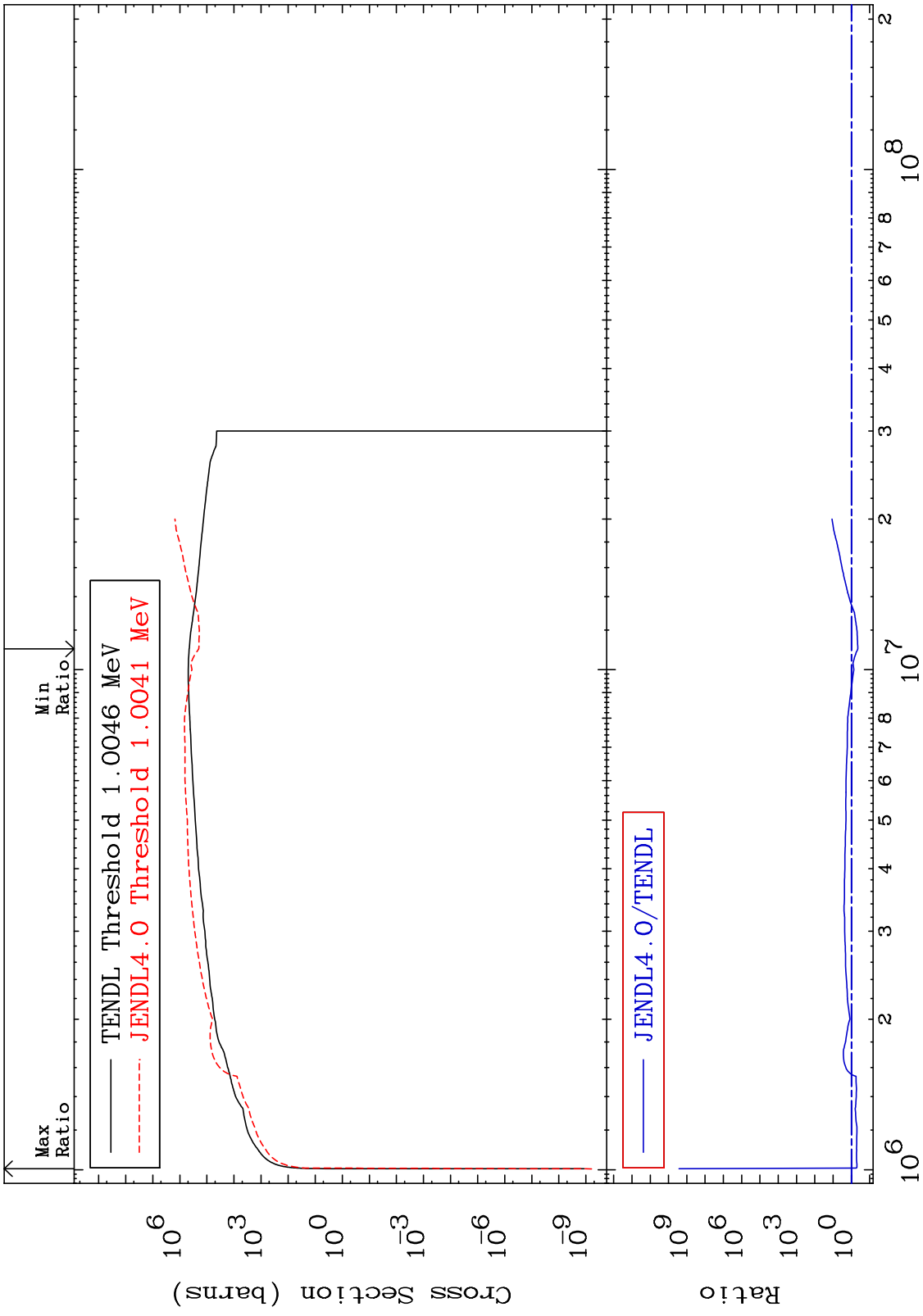
19-K -41

MAT 1931 Kerma non-elastic (all but mt2) 19-K -41
 Cross Section -99.77 To 9999. %



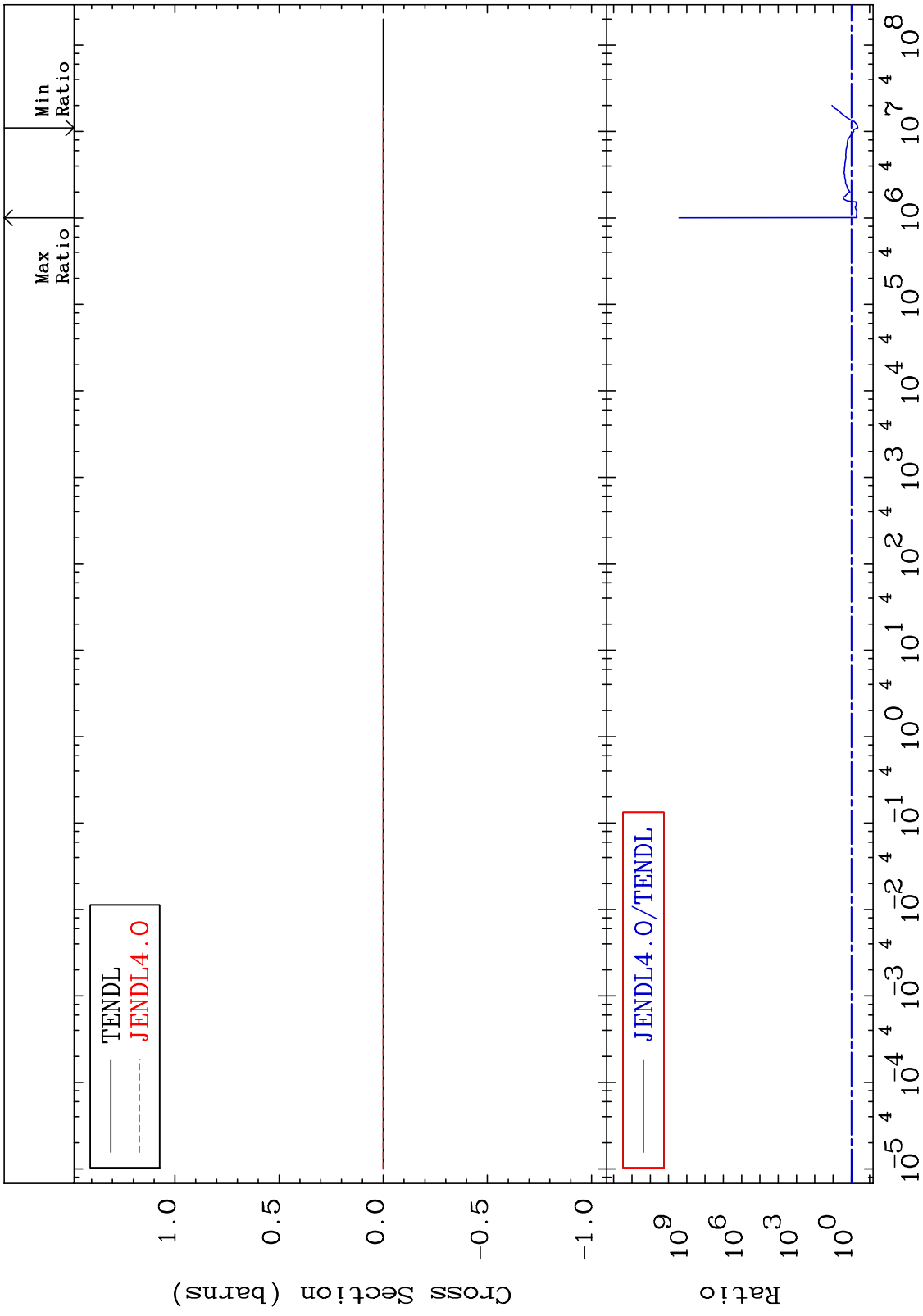
17 19-K -41

MAT 1931 Kerma inelastic (mt51-91) 19-K -41
 -55.82 To 9999. %
 Cross Section



18 Incident Energy (eV) 19-K -41

MAT 1931 Kerma fission (mt18 or mt19-20-21-38) 19-K -41
 Cross Section -55.82 To 9999. %

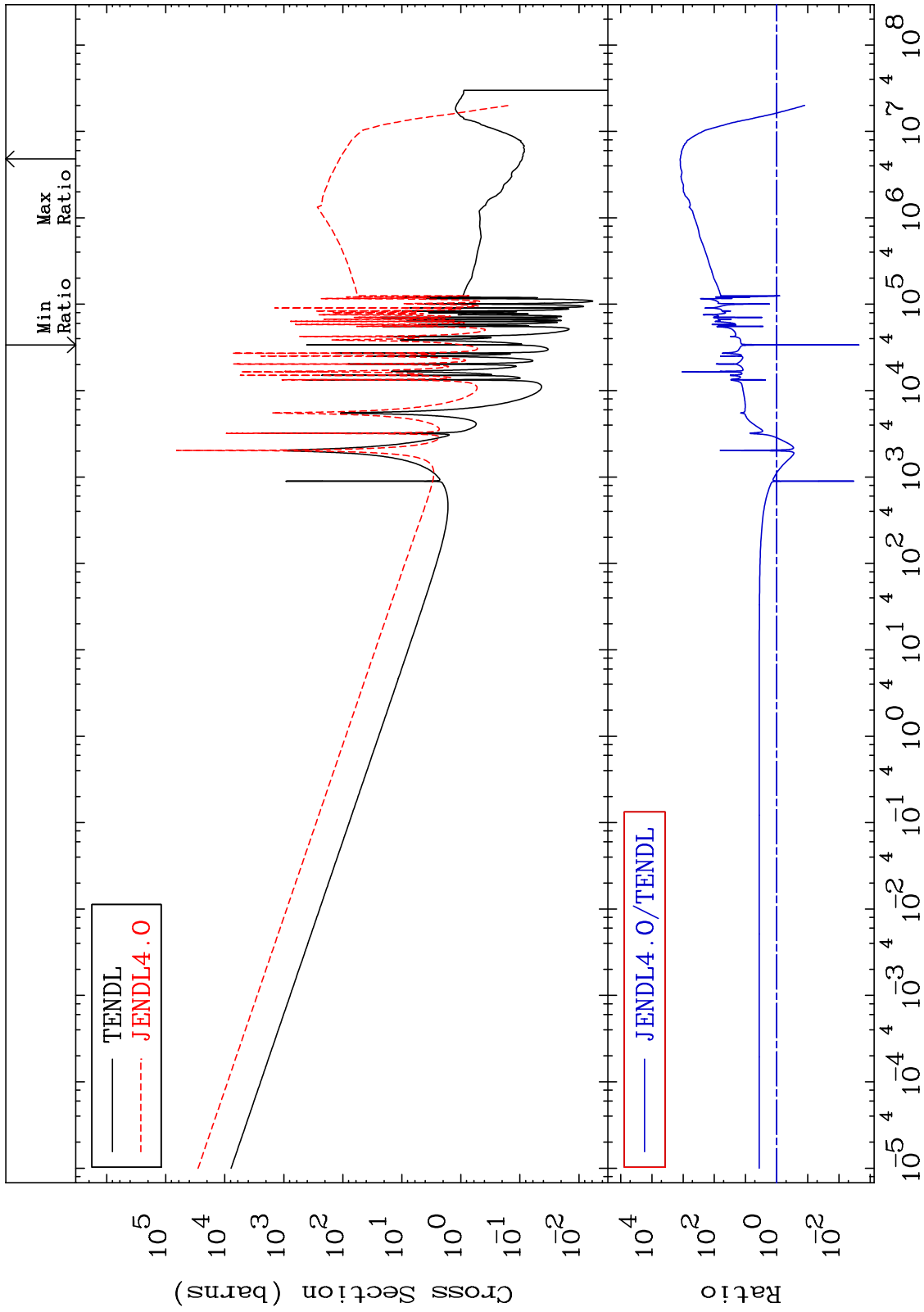


19 19-K -41

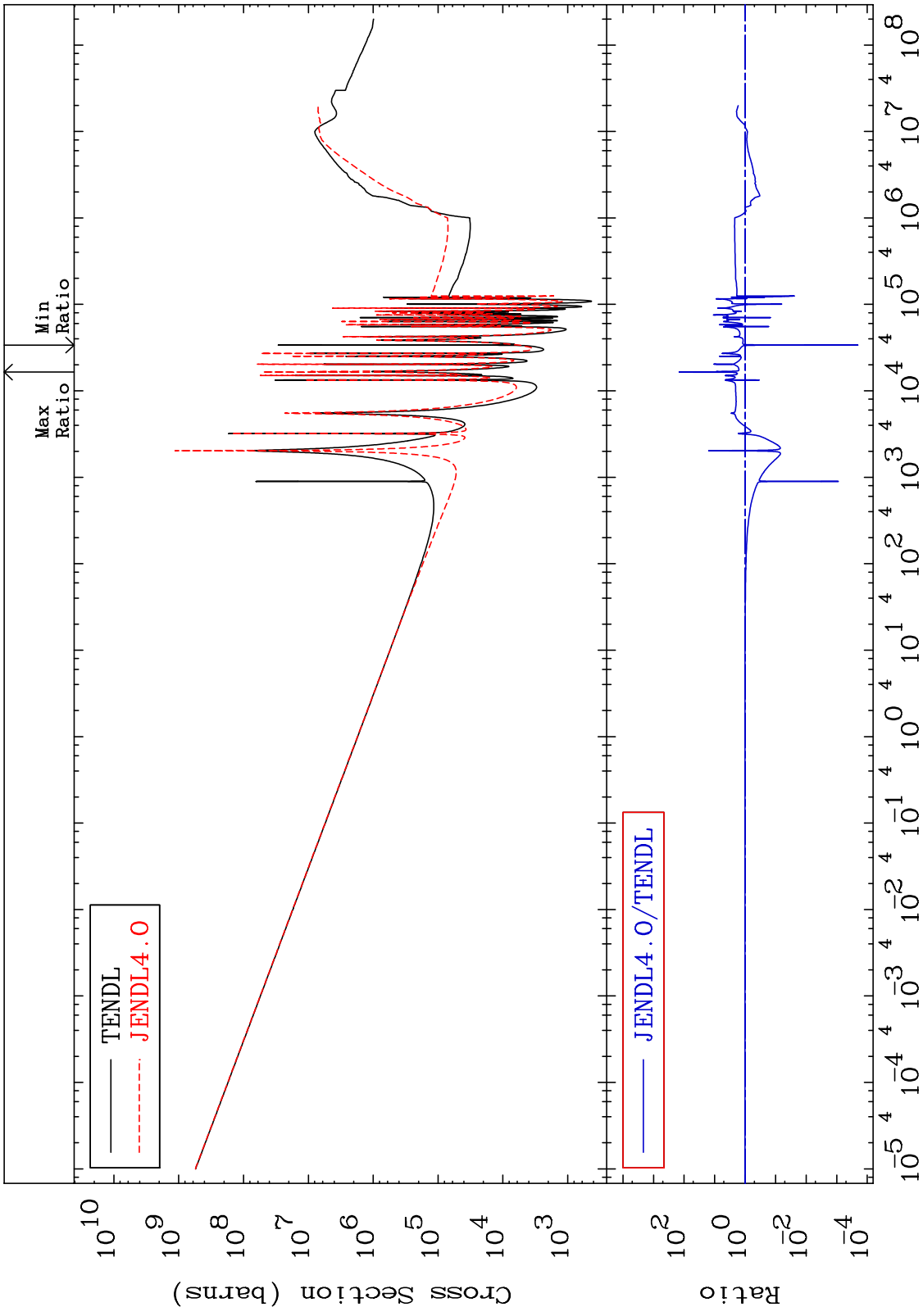
MAT 1931

Kerma capture (mt102)
Cross Section

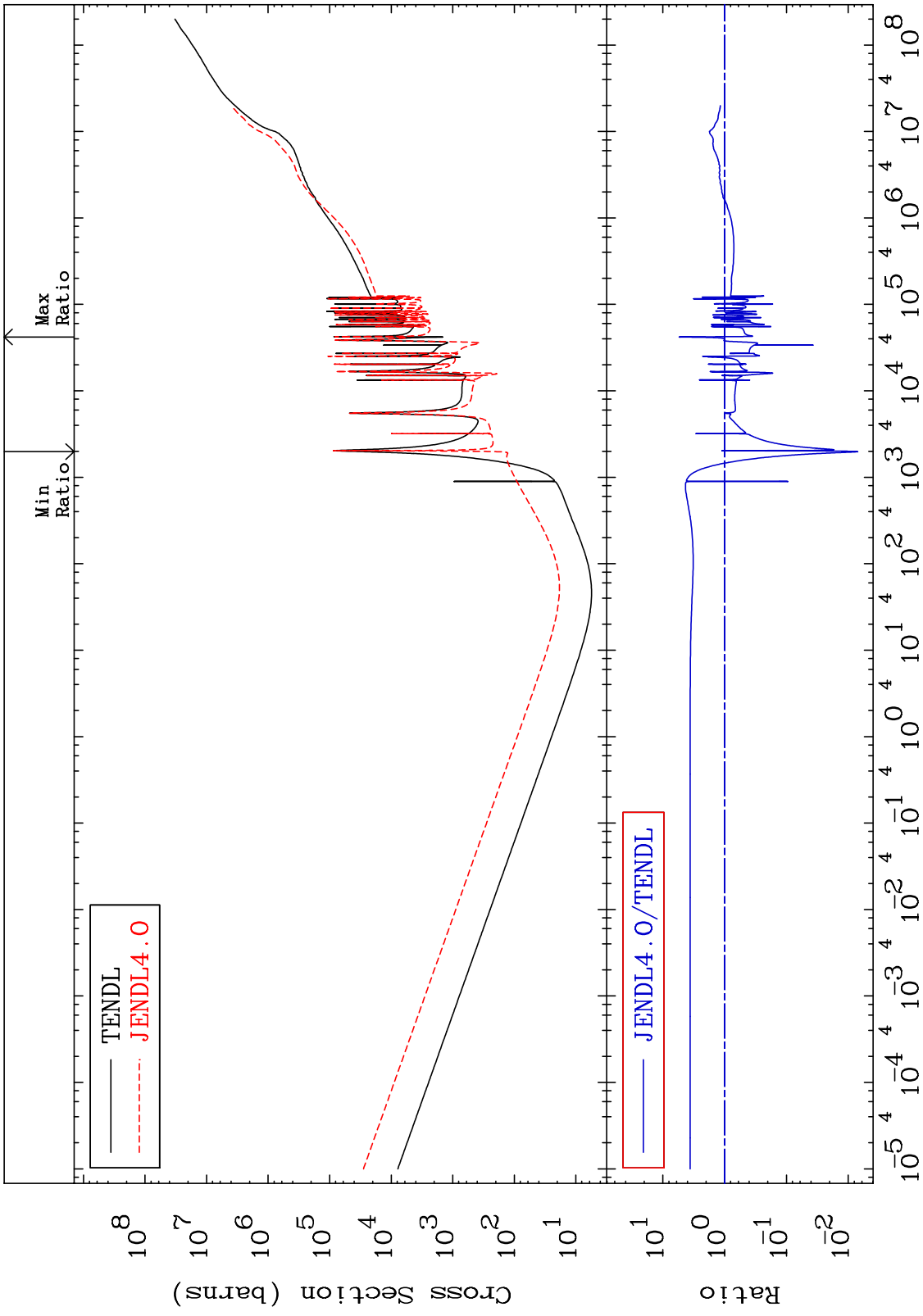
19-K -41
-99.77 To 9999. %



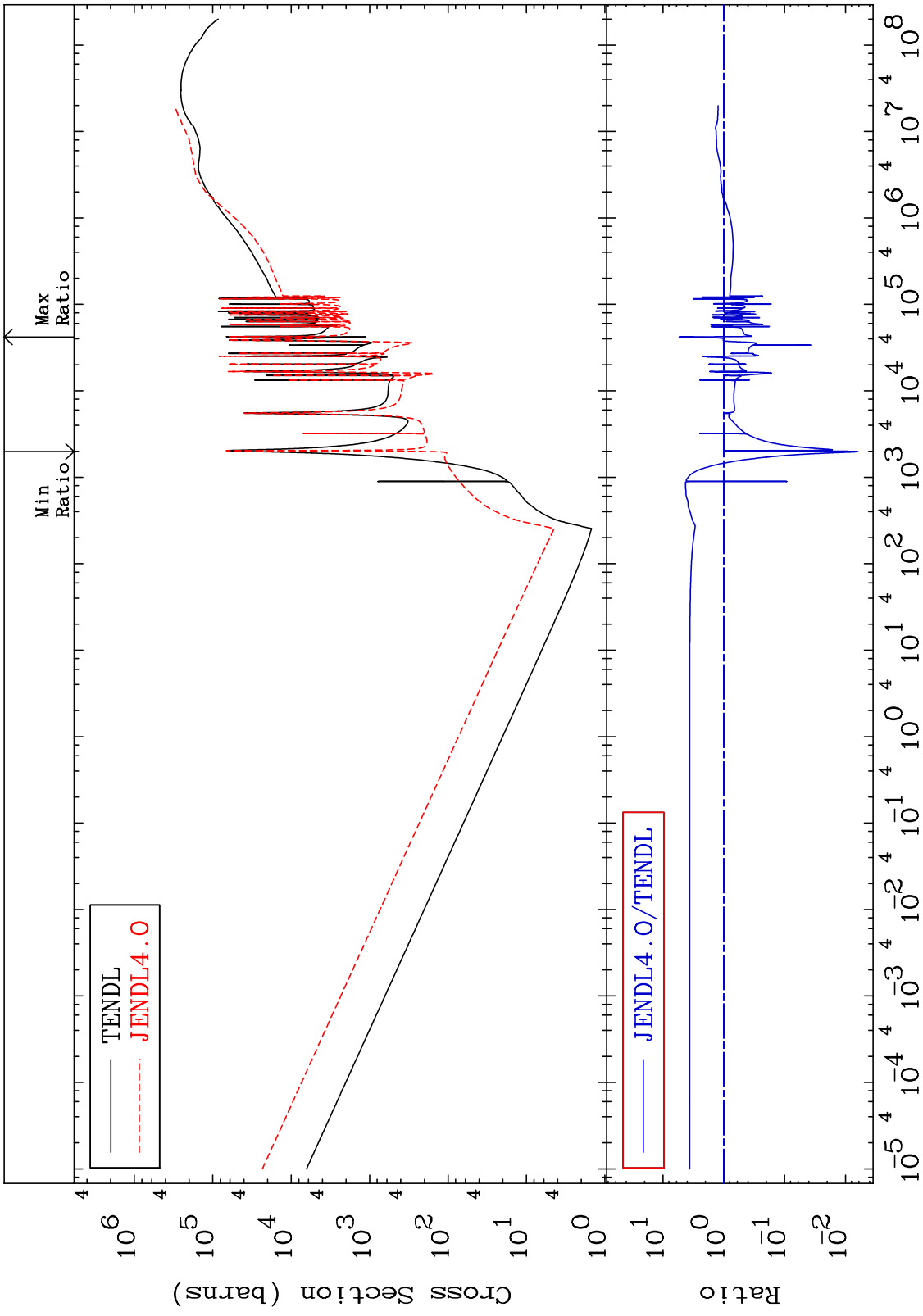
MAT 1931
 Total photon (eV-barns)
 Cross Section
 19-K -41
 -99.98 To 9999. %



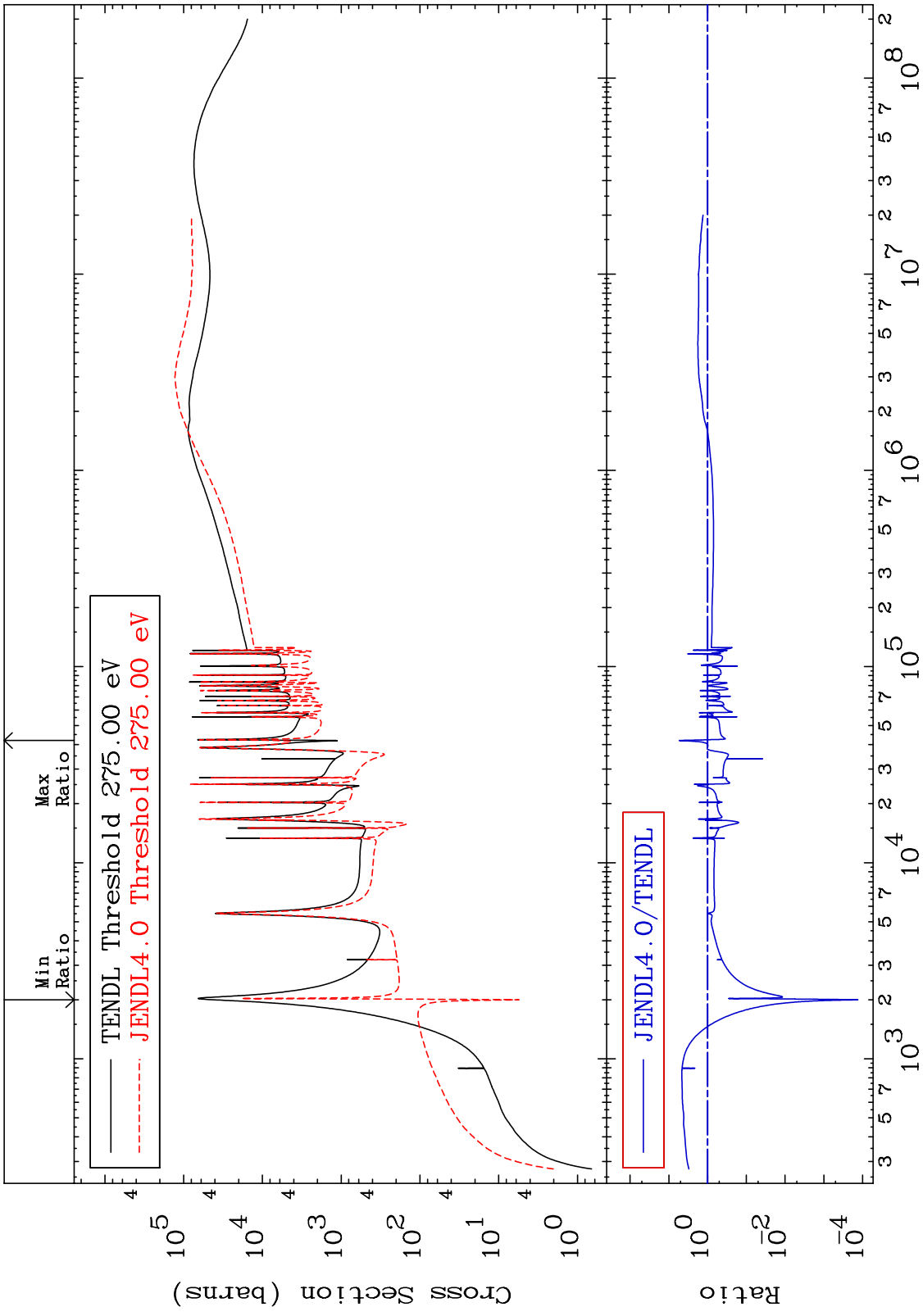
MAT 1931 Total kinematic kerma (high limit) 19-K -41
 Cross Section -99.30 To 446.5 %



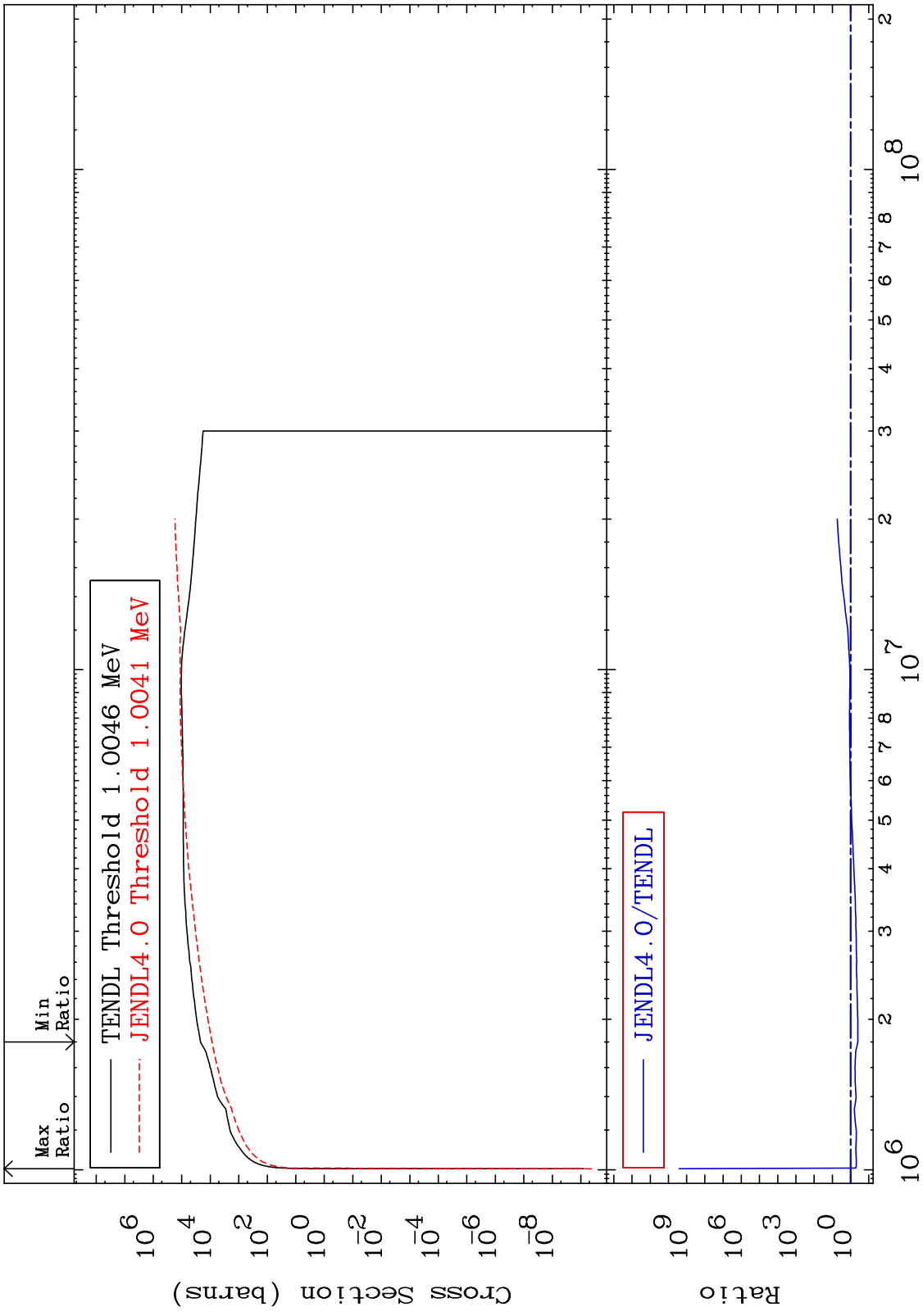
MAT 1931 Dpa total (eV-barns) 19-K -41
 Cross Section -99.37 To 445.0 %



MAT 1931 19-K -41
 Dpa elastic (mt2) -99.99 To 445.0 %
 Cross Section

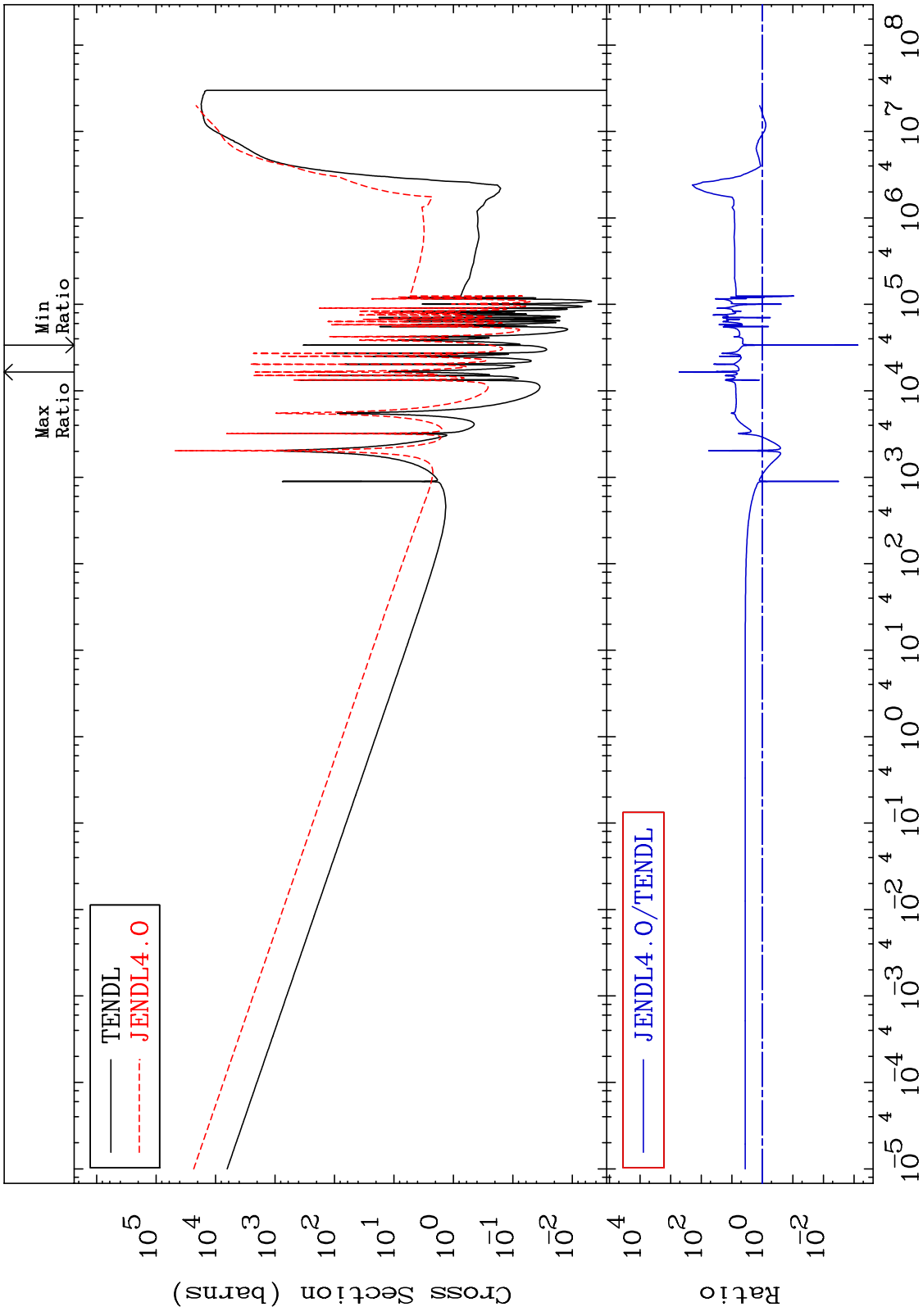


MAT 1931 Dpa inelastic (mt51-91) 19-K -41
 Cross Section -60.27 To 9999. %

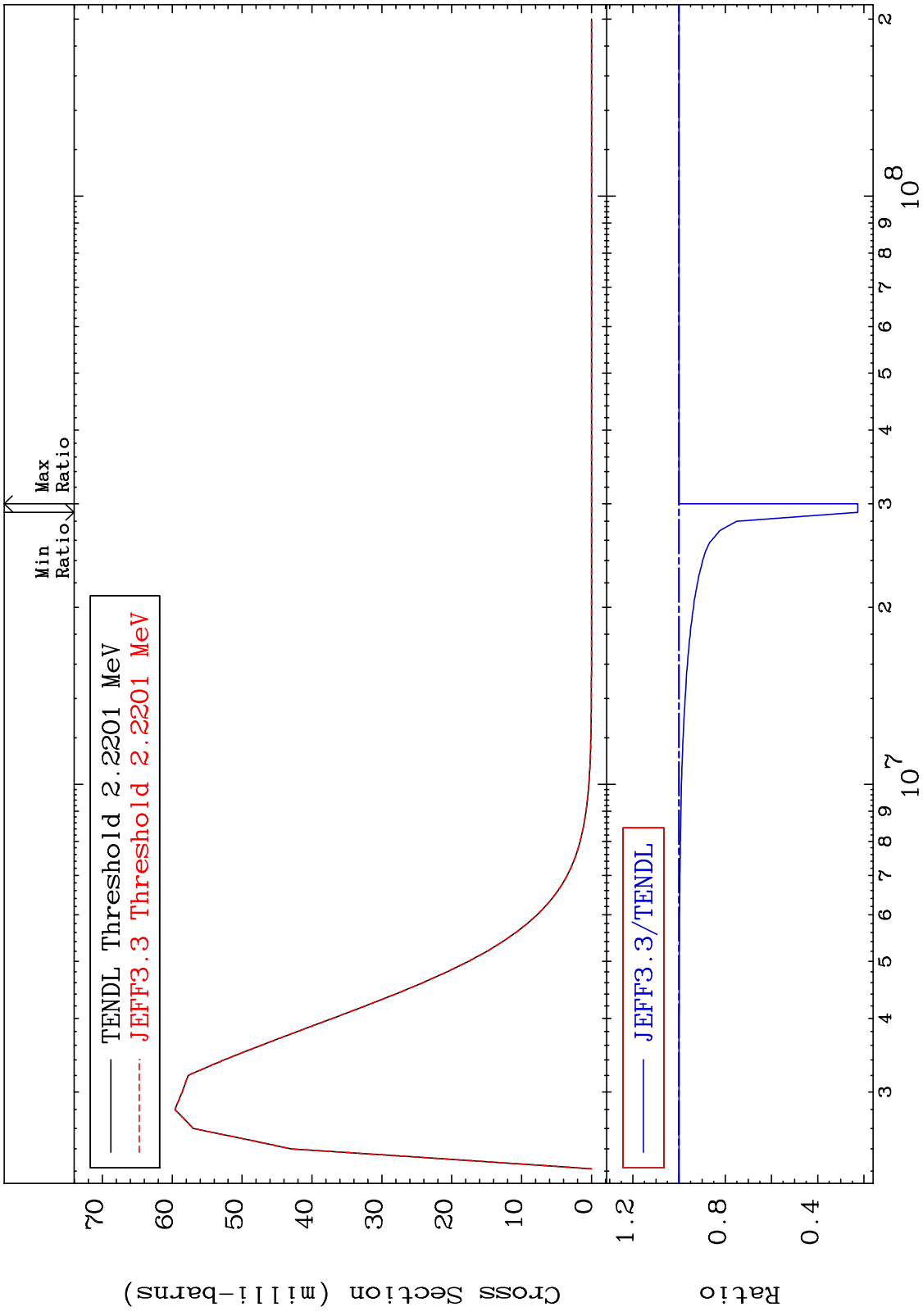


25 Incident Energy (eV) 19-K -41

MAT 1931 Dpa disappearance (mt102 -120) 19-K -41
 Cross Section -99.92 To 9999. %



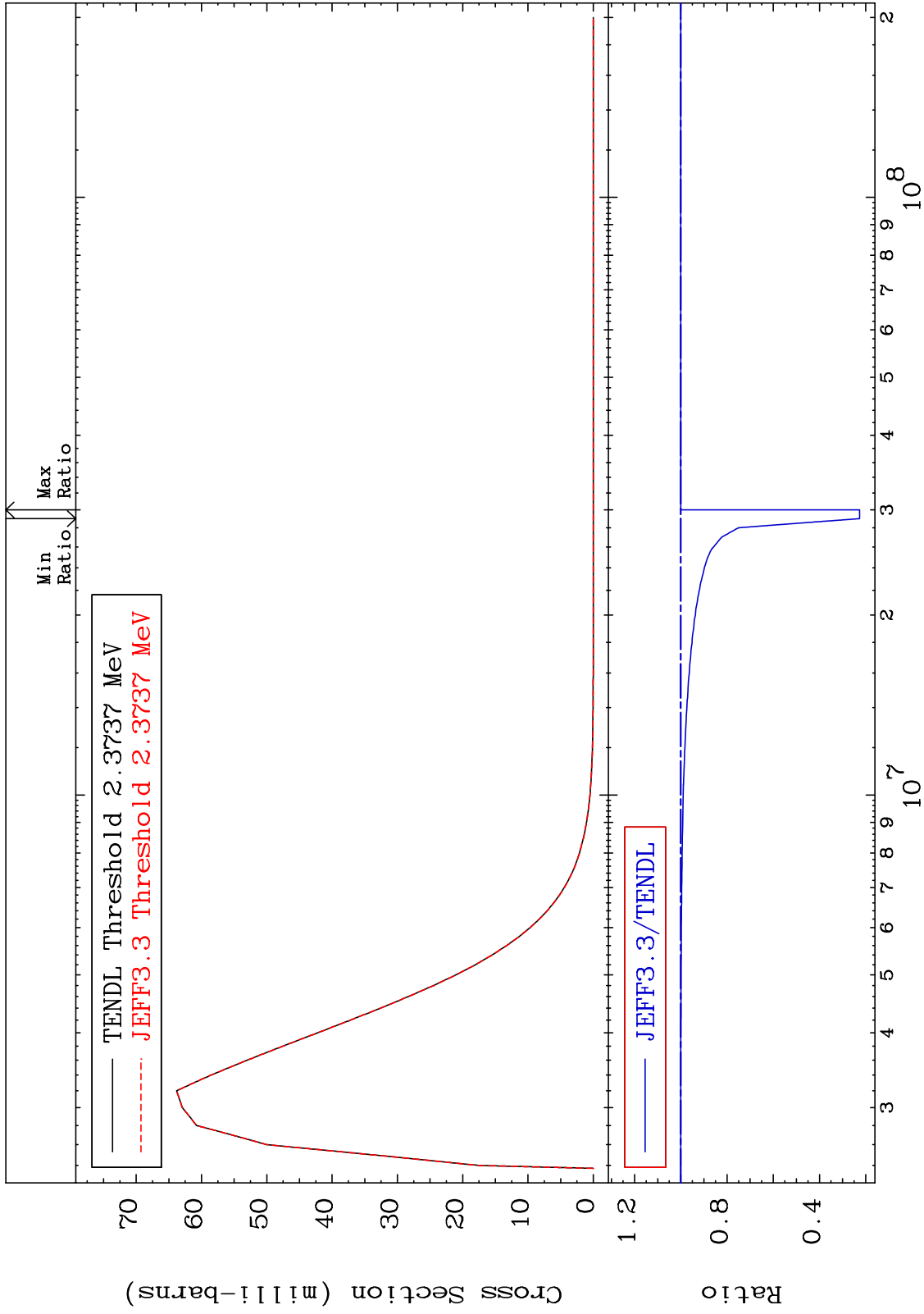
MAT 1931 MT= 59 (n,n') Level Cross Section -77.37 To 0.000 % 19-K -41



MAT 1931

MT= 60 (n,n') Level
Cross Section

19-K -41
-77.37 To 0.000 %

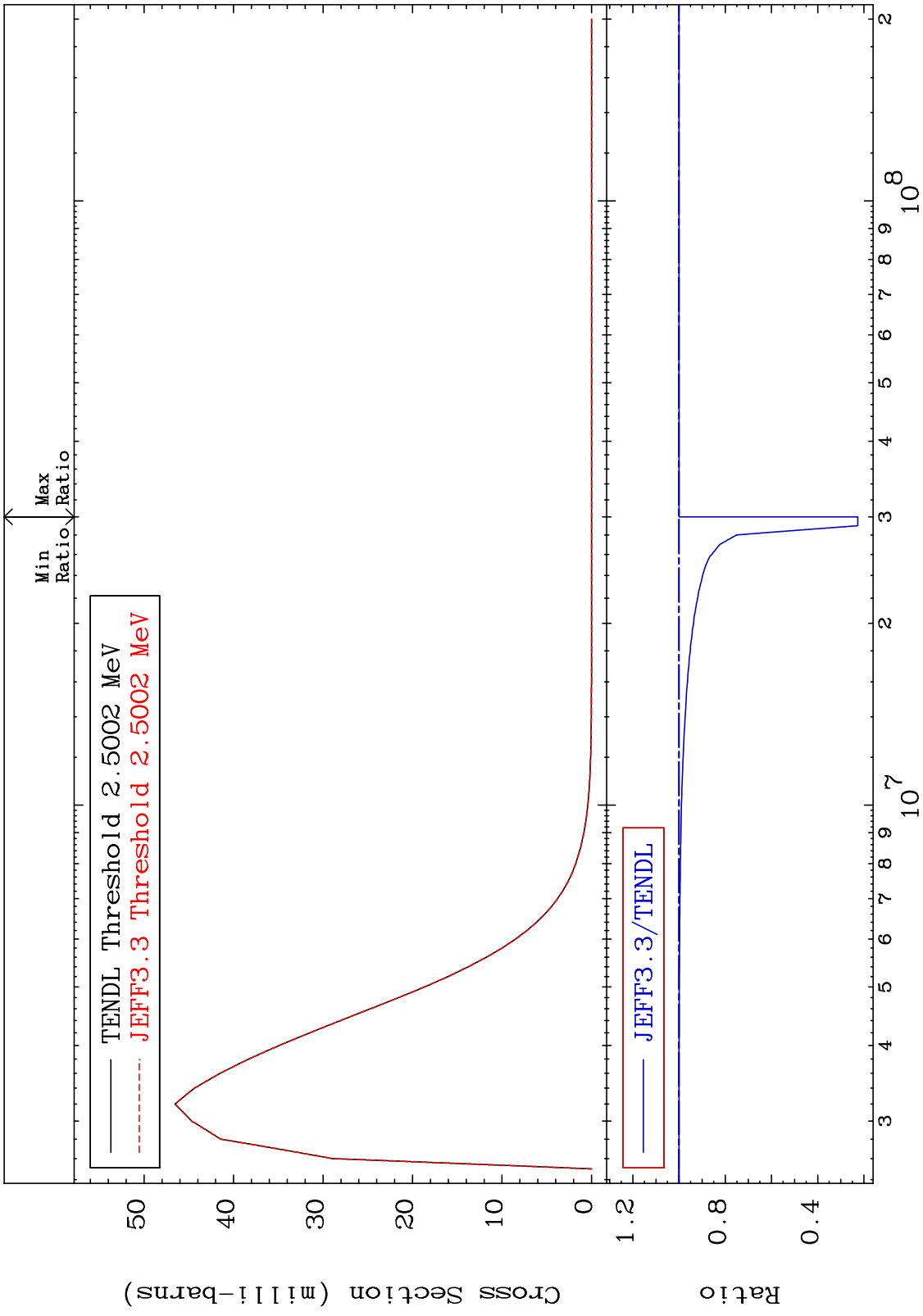


28

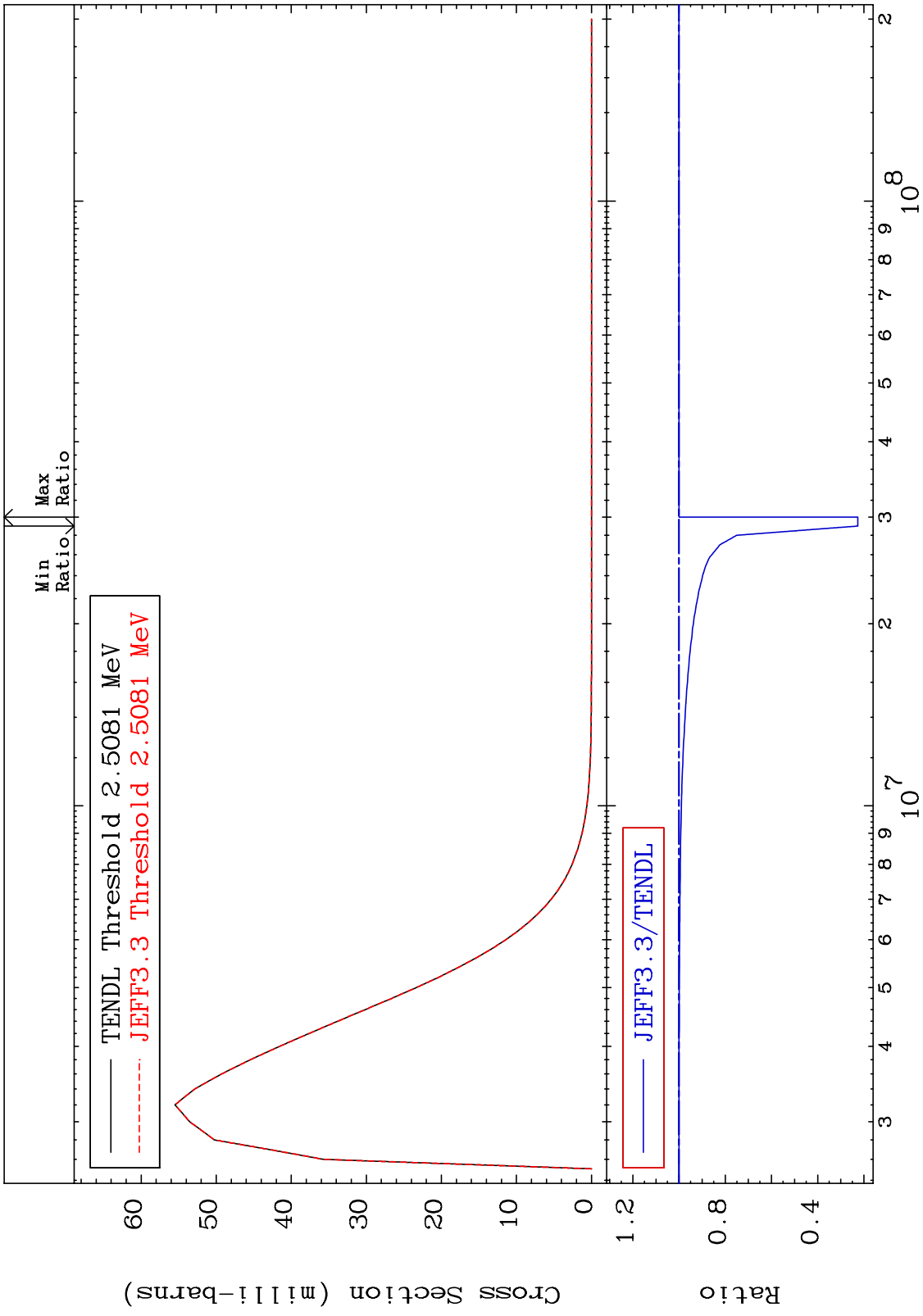
Incident Energy (eV)

19-K -41

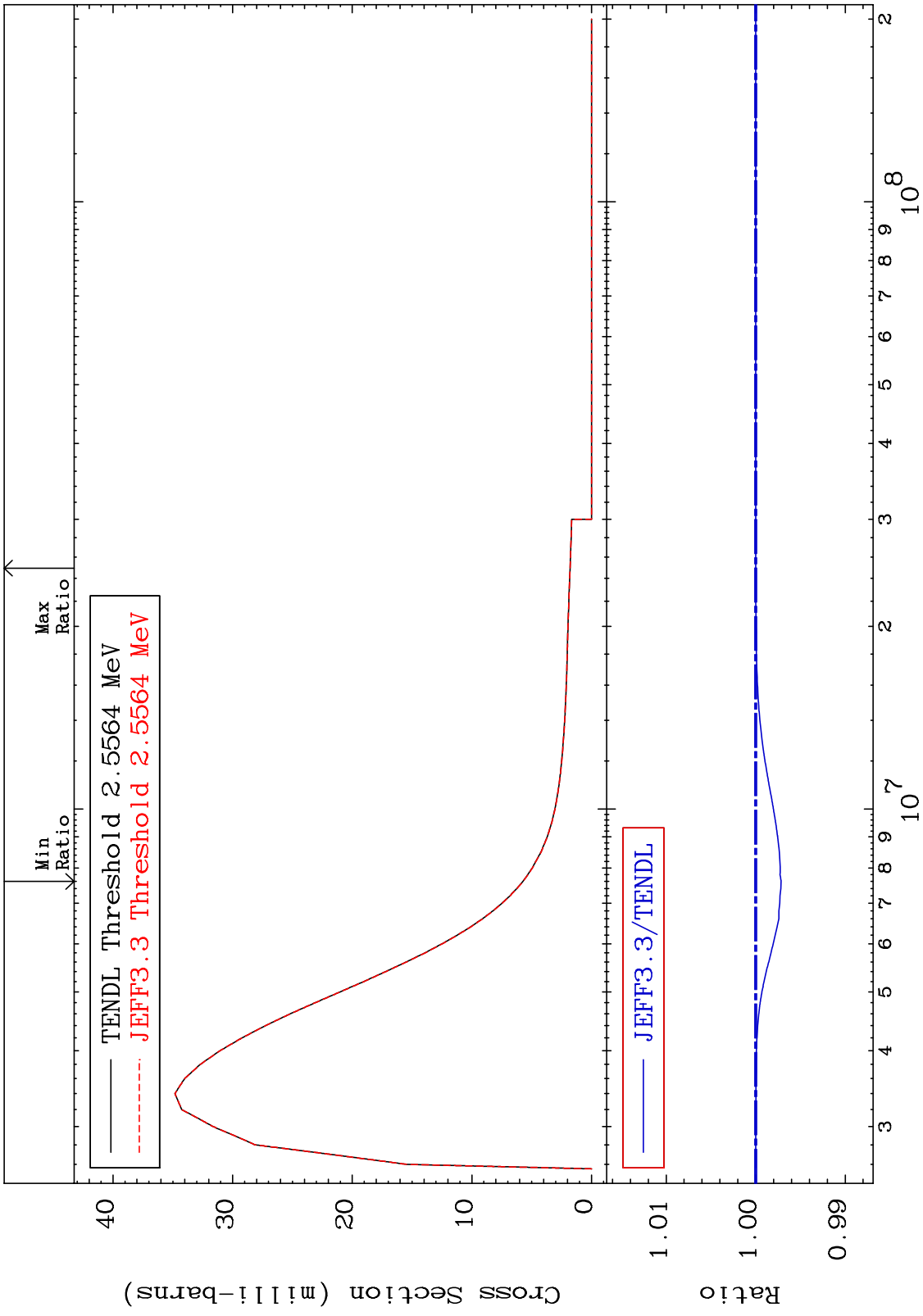
MAT 1931 MT= 61 (n,n') Level Cross Section 19-K -41
 -77.37 To 0.000 %



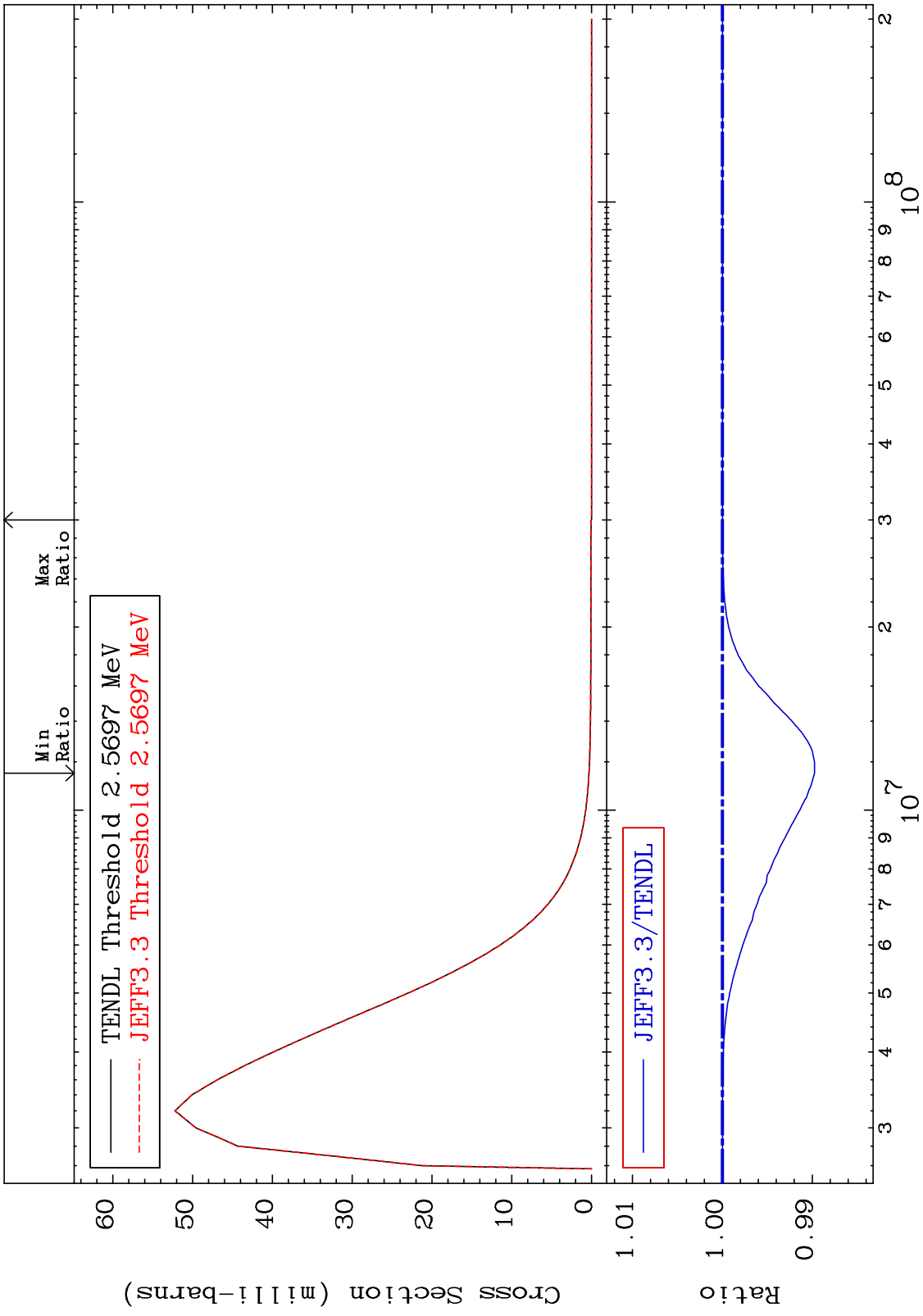
MAT 1931 MT= 62 (n,n') Level Cross Section 19-K -41
 -77.37 To 0.000 %



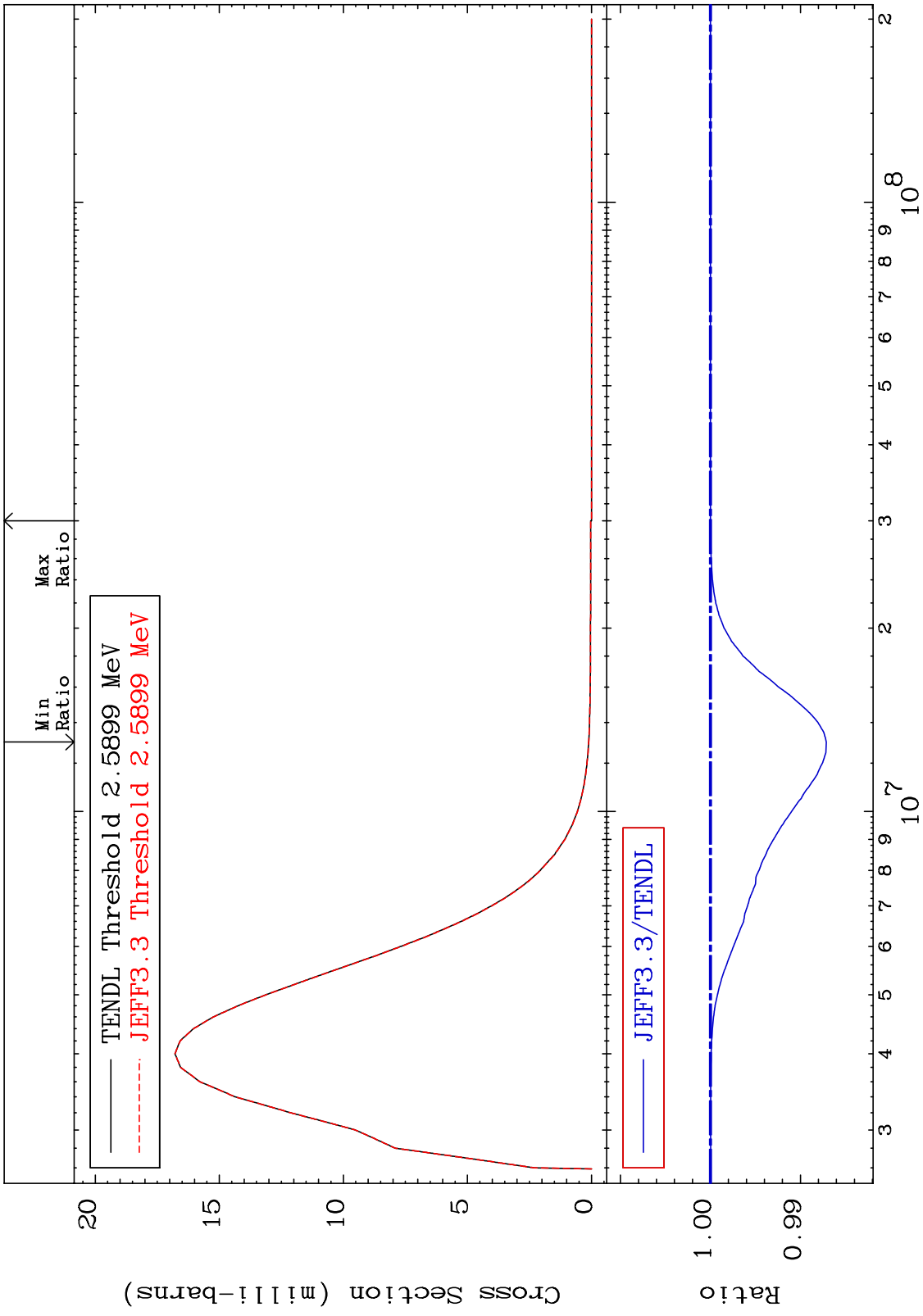
MAT 1931 MT= 63 (n,n') Level Cross Section -0.284 To 0.000 % 19-K -41



MAT 1931 MT= 64 (n,n') Level Cross Section -1.025 To 0.000 % 19-K -41

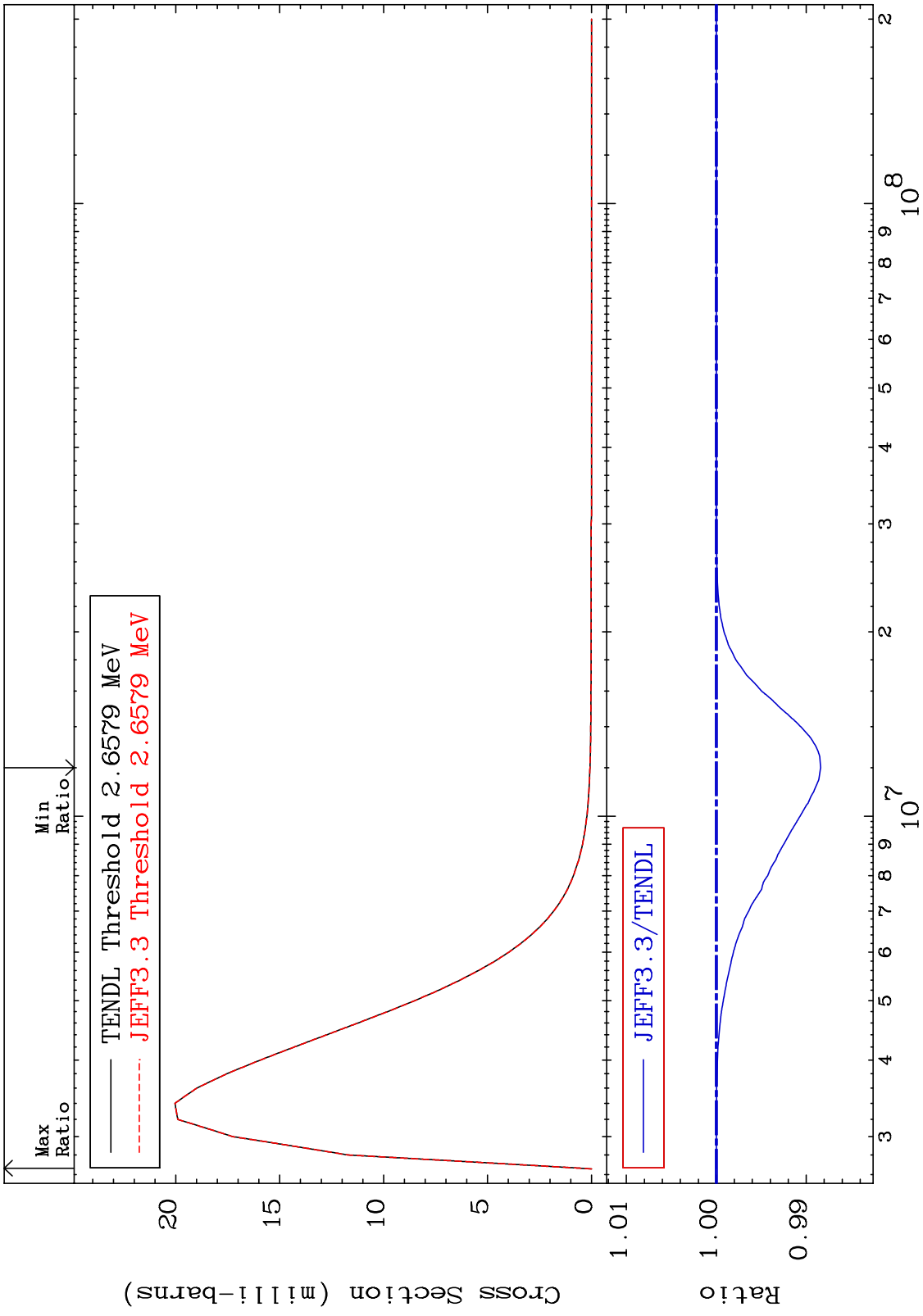


MAT 1931 MT= 65 (n,n') Level Cross Section -1.289 To 0.000 % 19-K -41

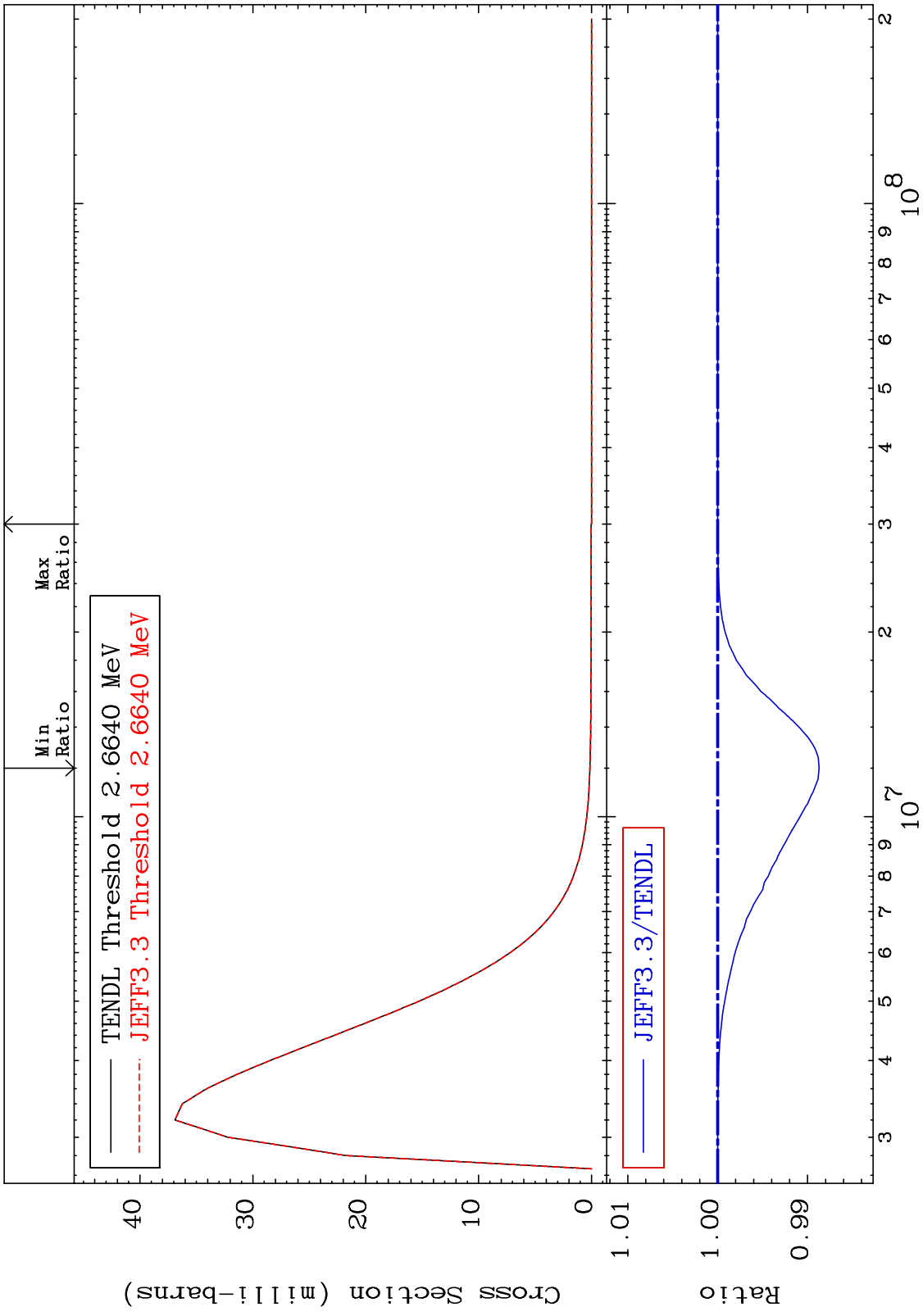


33 Incident Energy (eV) 19-K -41

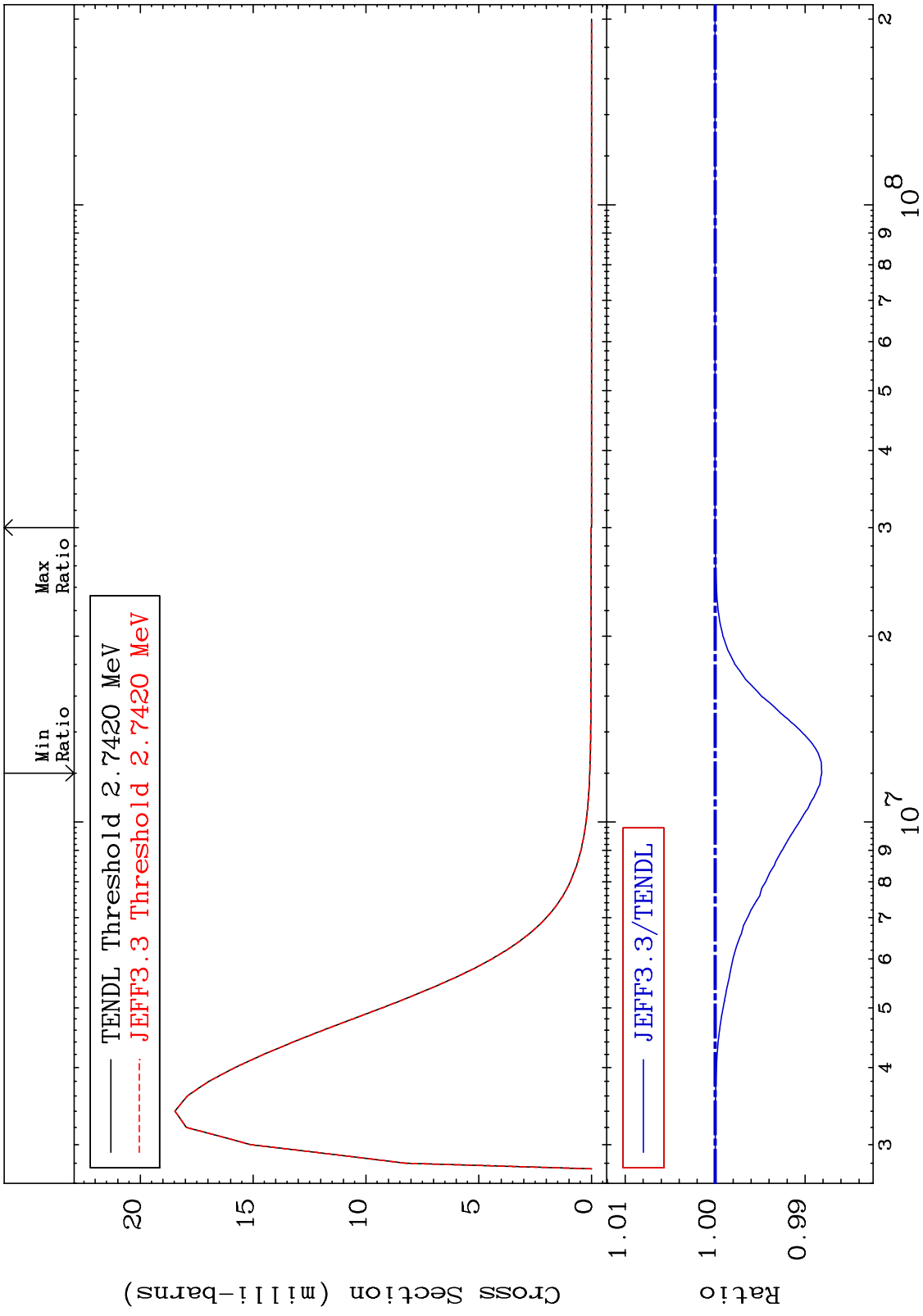
MAT 1931 MT= 66 (n,n') Level Cross Section 19-K -41
 -1.160 To 0.000 %



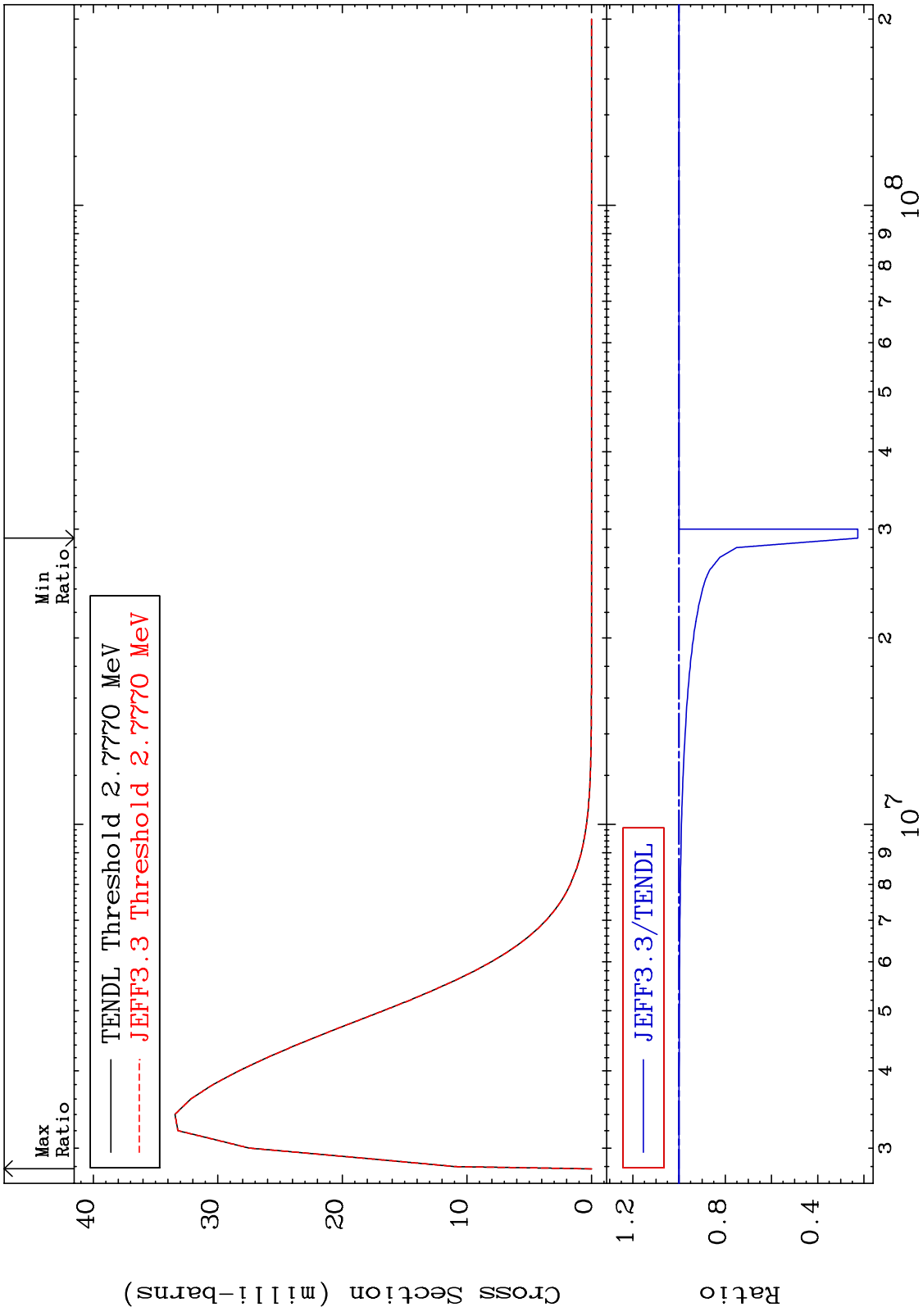
MAT 1931 MT= 67 (n,n') Level Cross Section -1.129 To 0.000 % 19-K -41



MAT 1931 MT= 68 (n,n') Level Cross Section -1.185 To 0.000 % 19-K -41

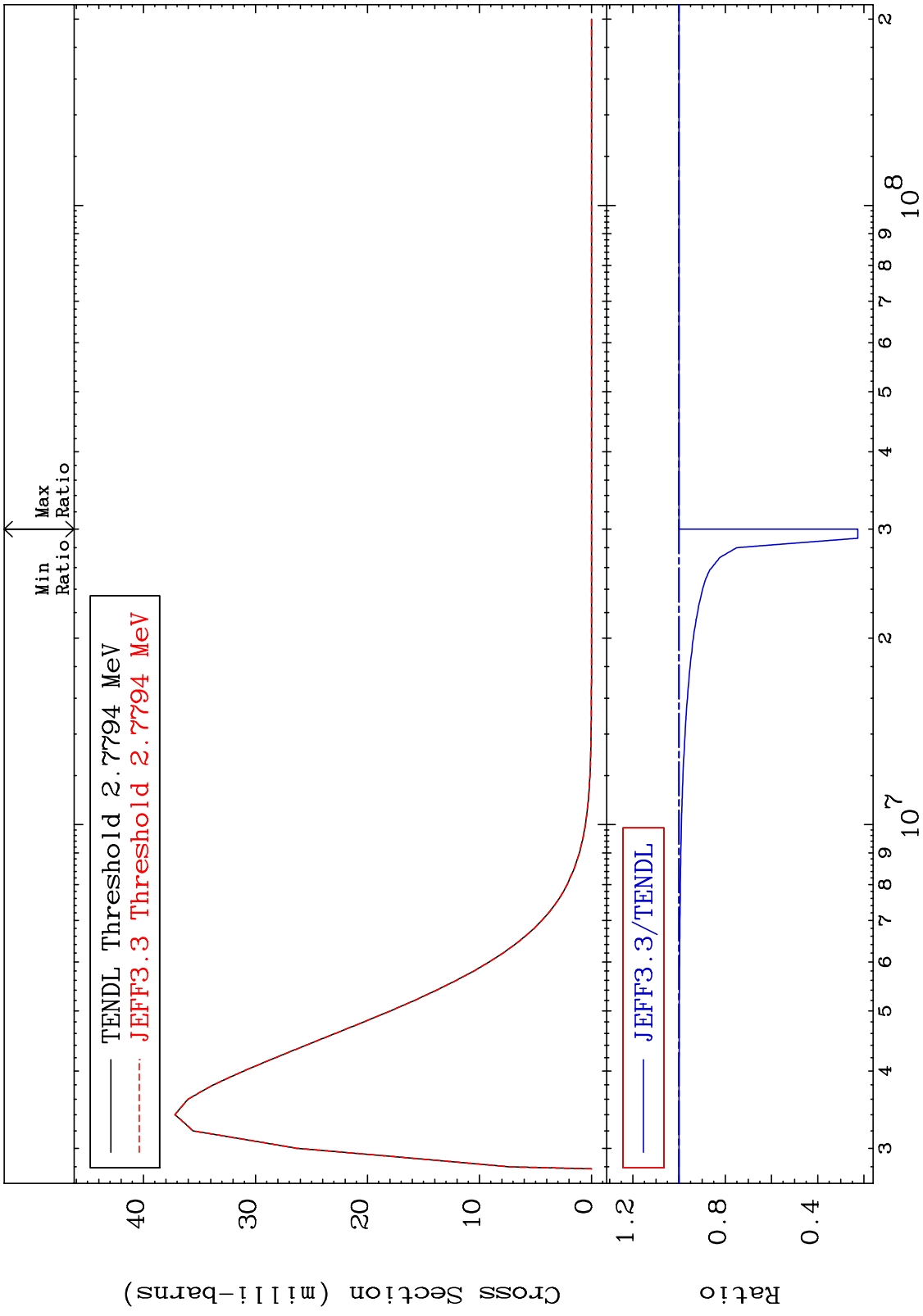


MAT 1931 MT= 69 (n,n') Level Cross Section 19-K -41
 -77.37 To 0.000 %



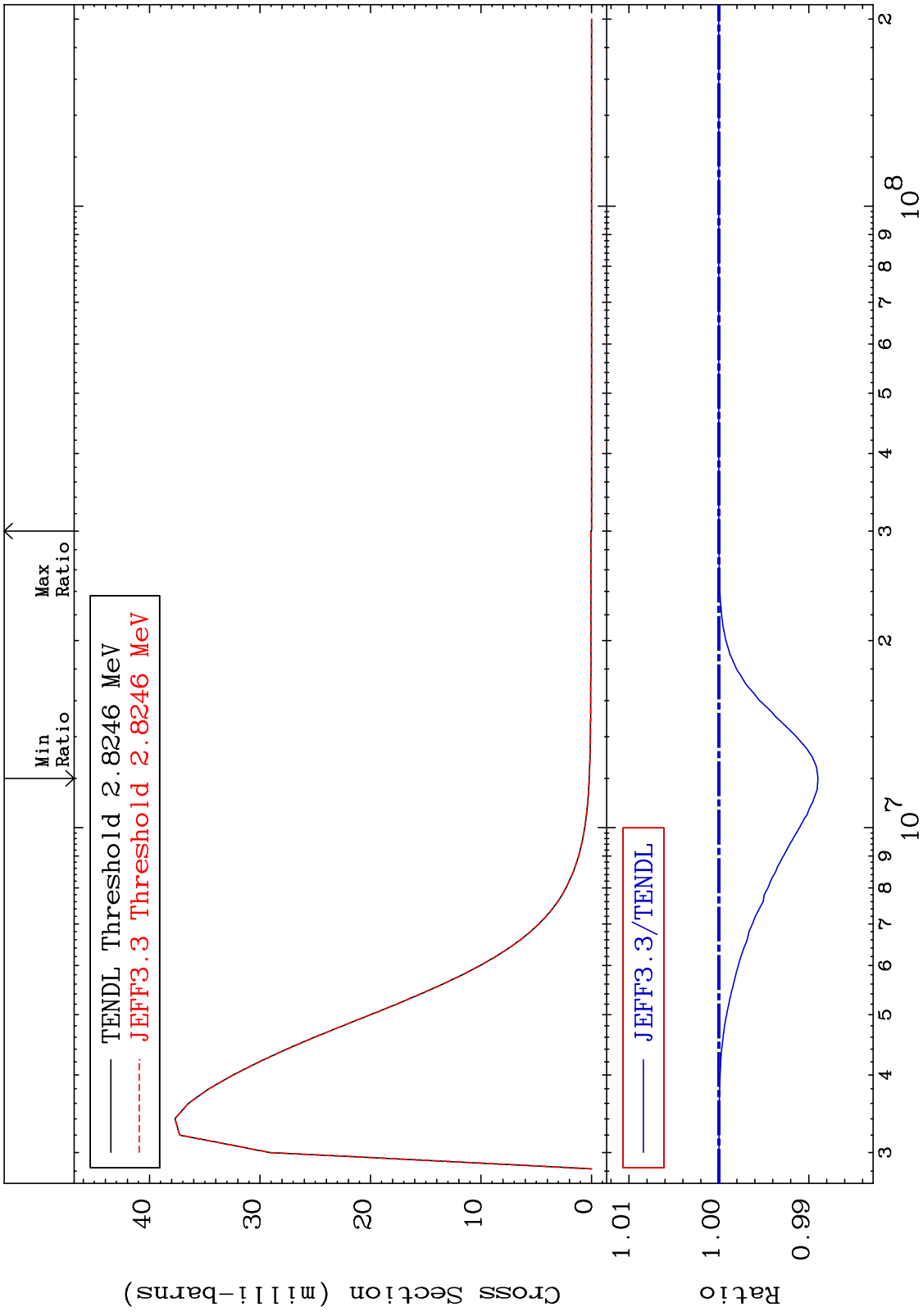
37 19-K -41

MAT 1931 MT= 70 (n,n') Level Cross Section 19-K -41
 -77.37 To 0.000 %



38 19-K -41

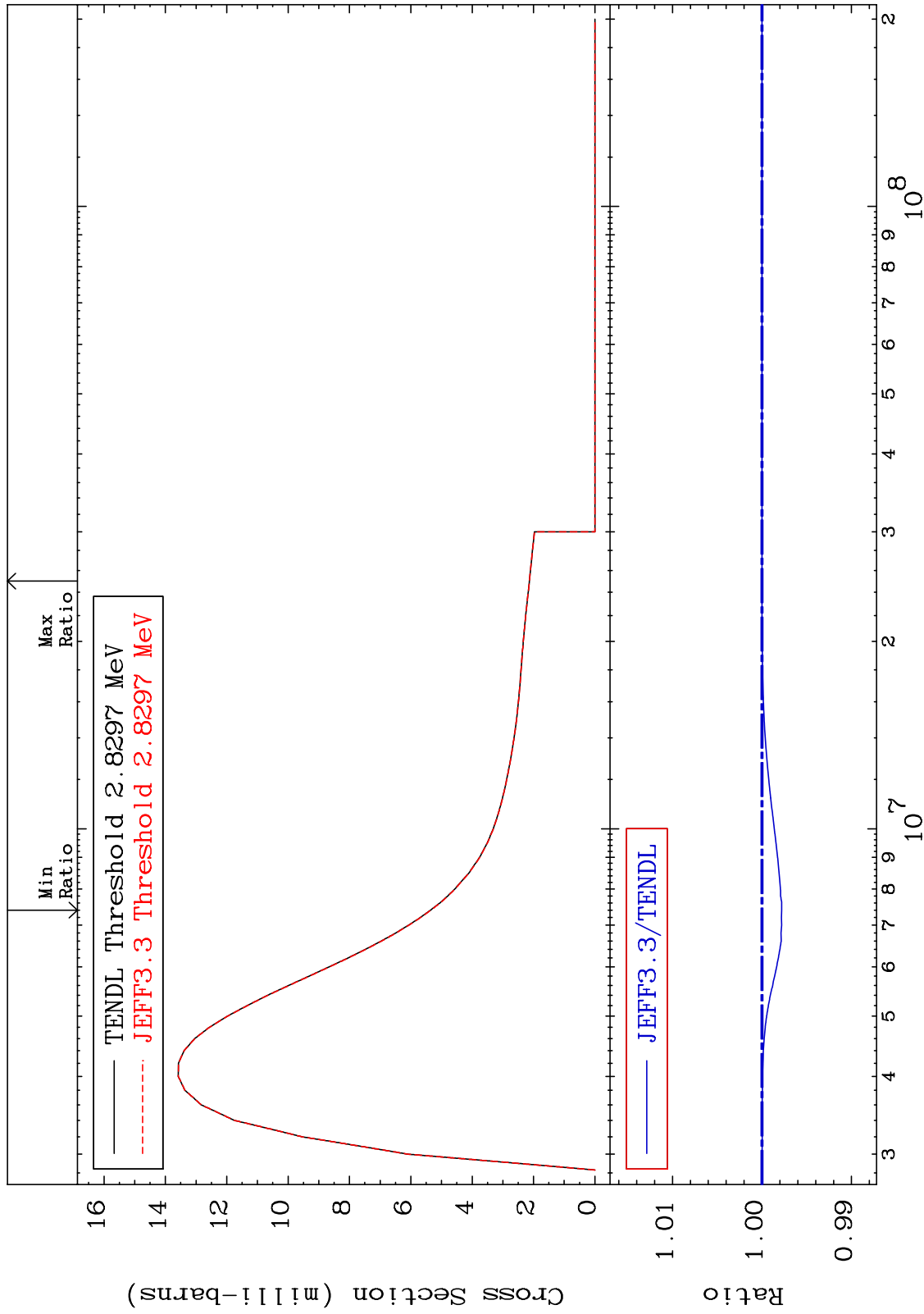
MAT 1931 MT= 71 (n,n') Level Cross Section 19-K -41
 -1.103 To 0.000 %



MAT 1931

MT= 72 (n,n') Level
Cross Section

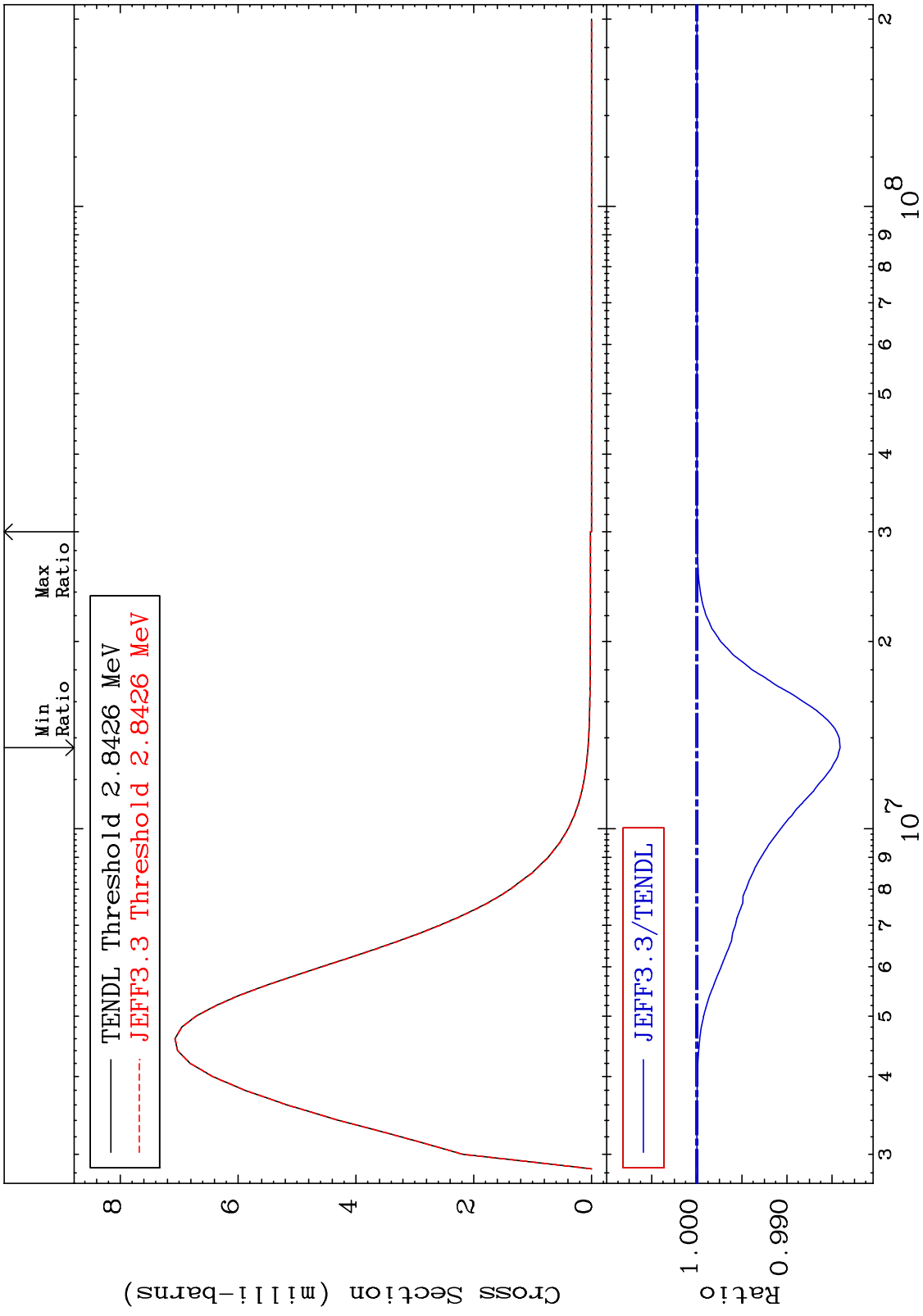
19-K -41
-0.221 To 0.000 %



40

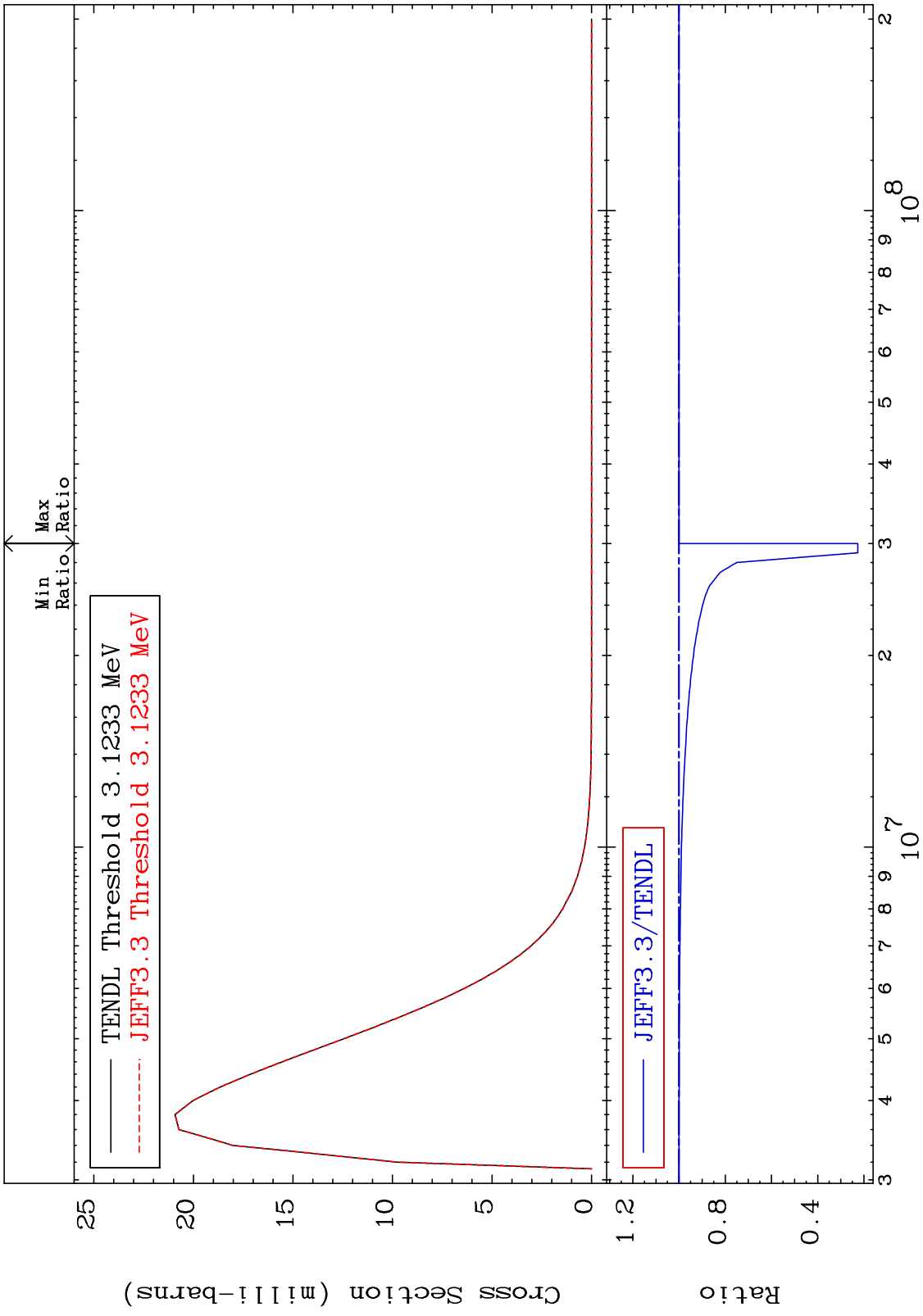
19-K -41

MAT 1931 MT= 73 (n,n') Level Cross Section 19-K -41
 -1.590 To 0.000 %

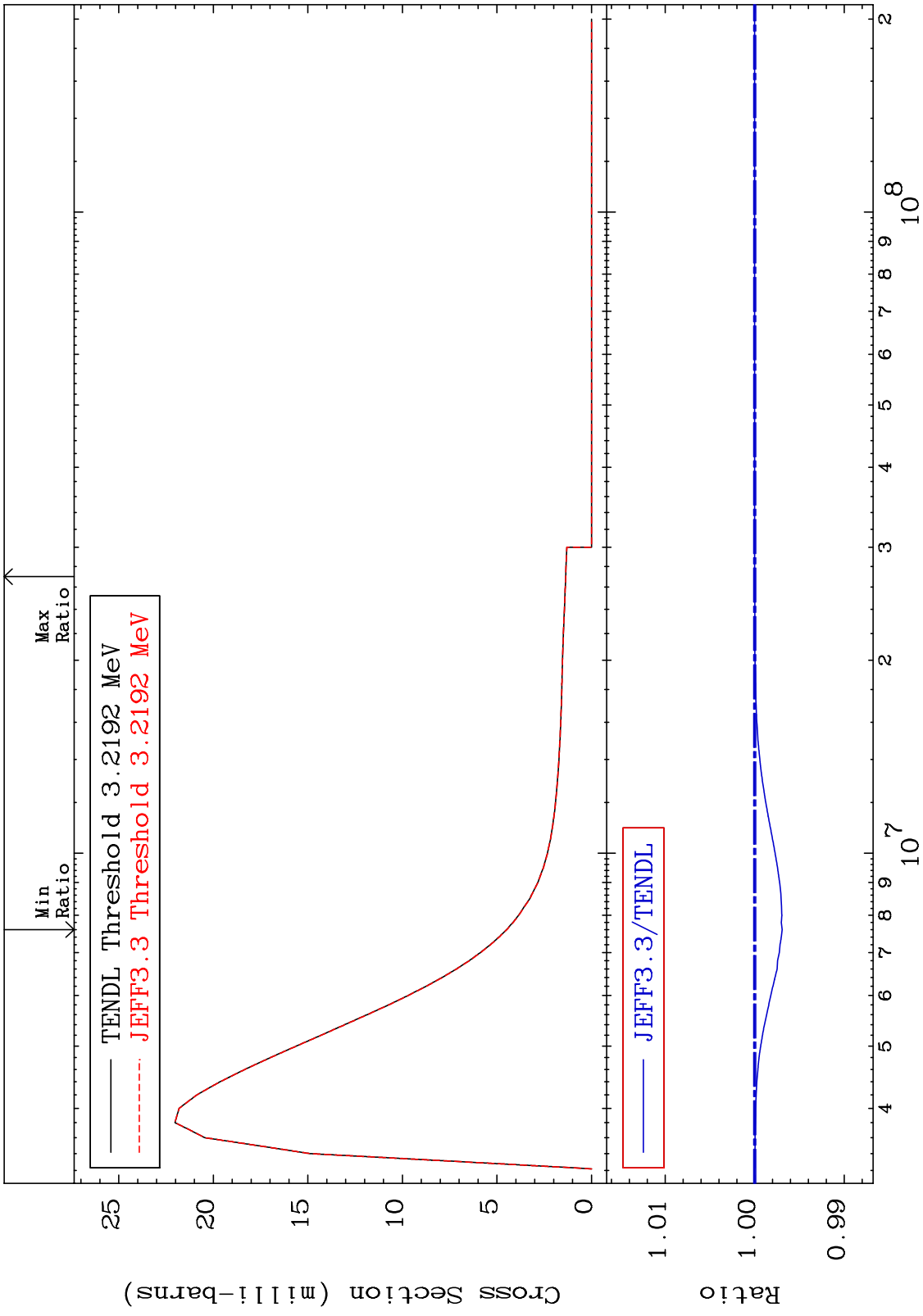


41 Incident Energy (eV) 19-K -41

MAT 1931 MT= 74 (n, n') Level Cross Section -77.37 To 0.000 % 19-K -41



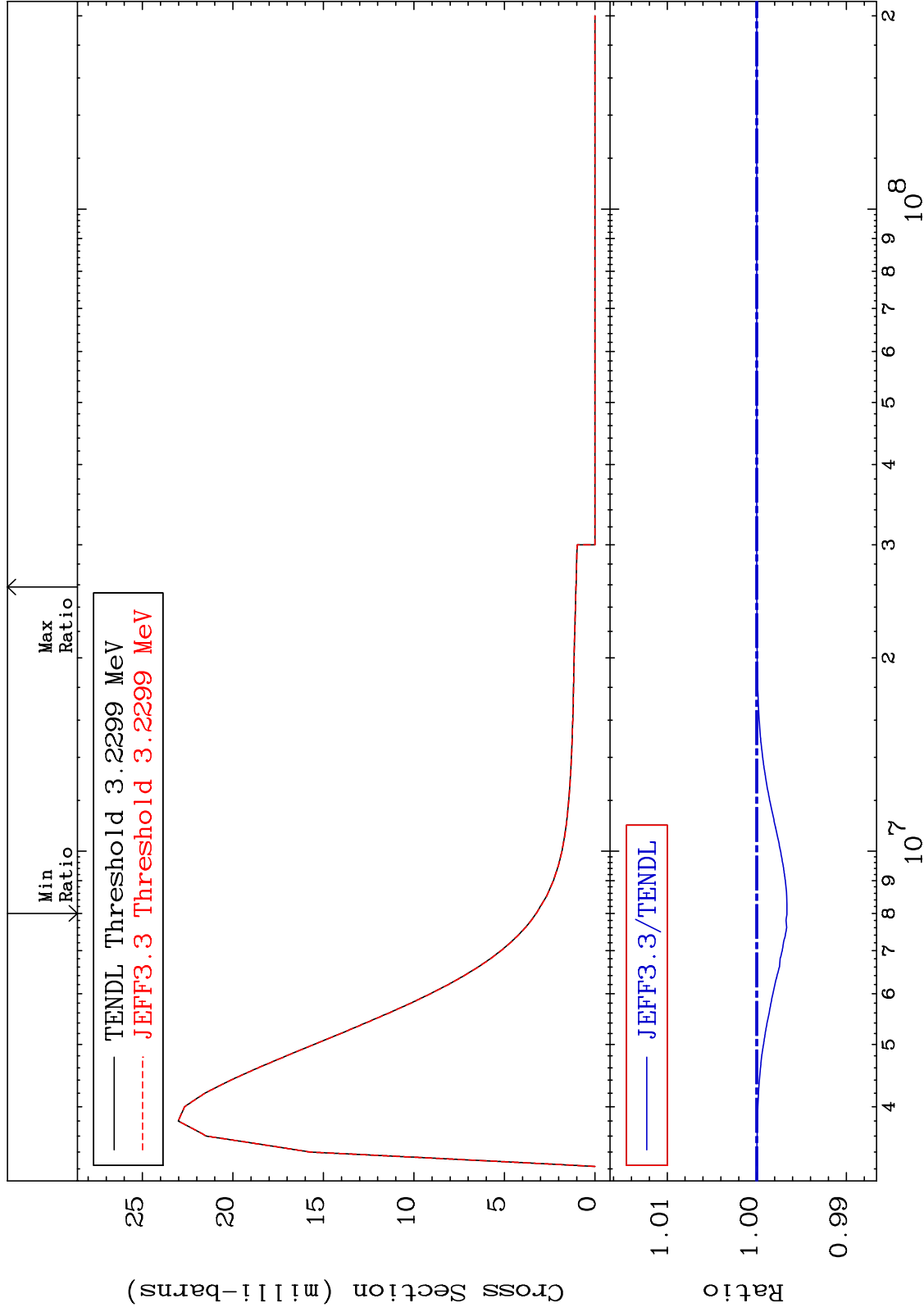
MAT 1931 MT= 75 (n,n') Level Cross Section 19-K -41
 -0.307 To 0.000 %



MAT 1931

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

19-K -41
-0.337 To 0.000 %

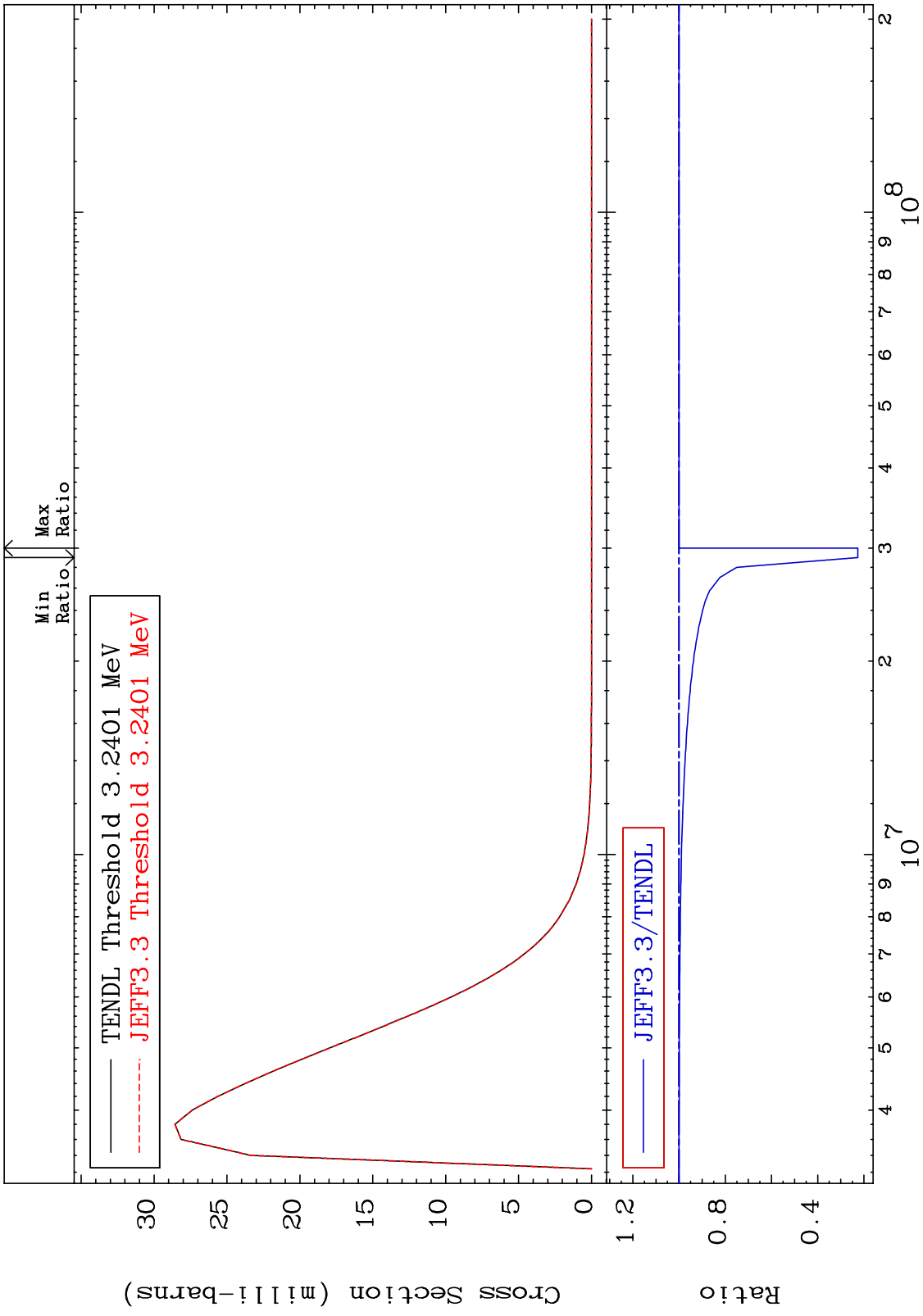


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Incident Energy (eV)

19-K -41

MAT 1931 MT= 77 (n,n') Level 19-K -41
 Cross Section -77.37 To 0.000 %

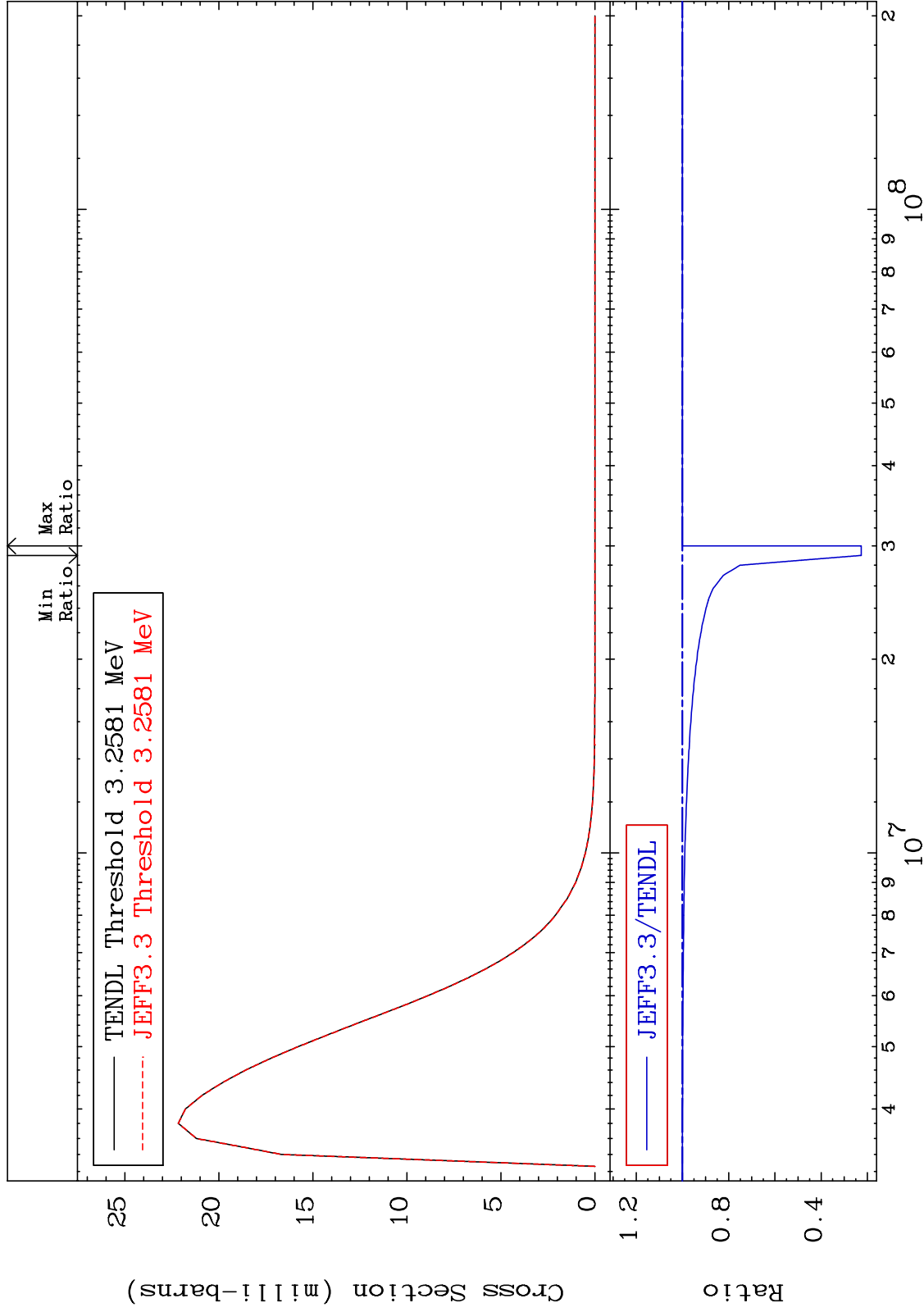


45 Incident Energy (eV) 19-K -41

MAT 1931

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

19-K -41
-77.37 To 0.000 %



46

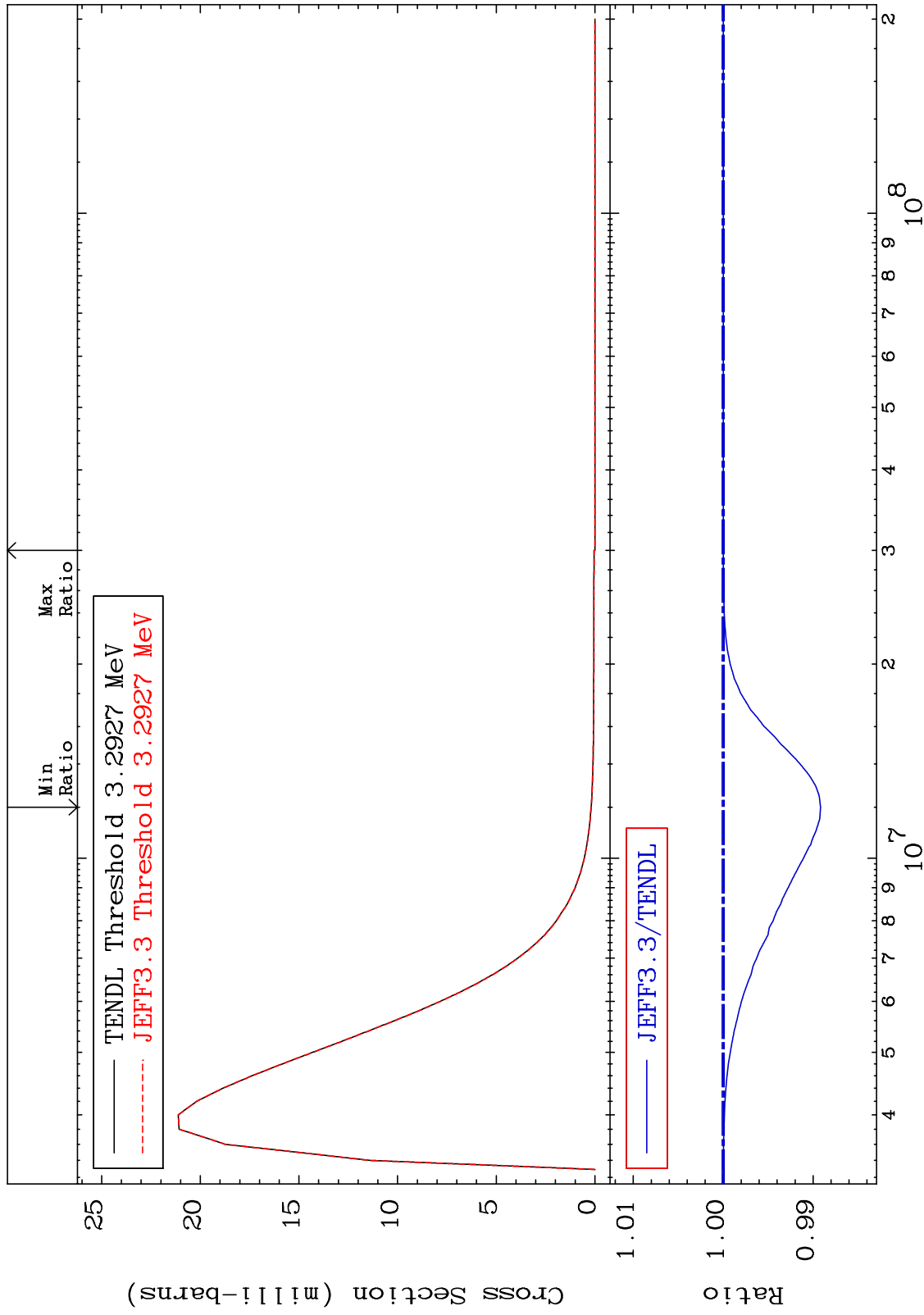
Incident Energy (eV)

19-K -41

MAT 1931

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

19-K -41
-1.083 To 0.000 %

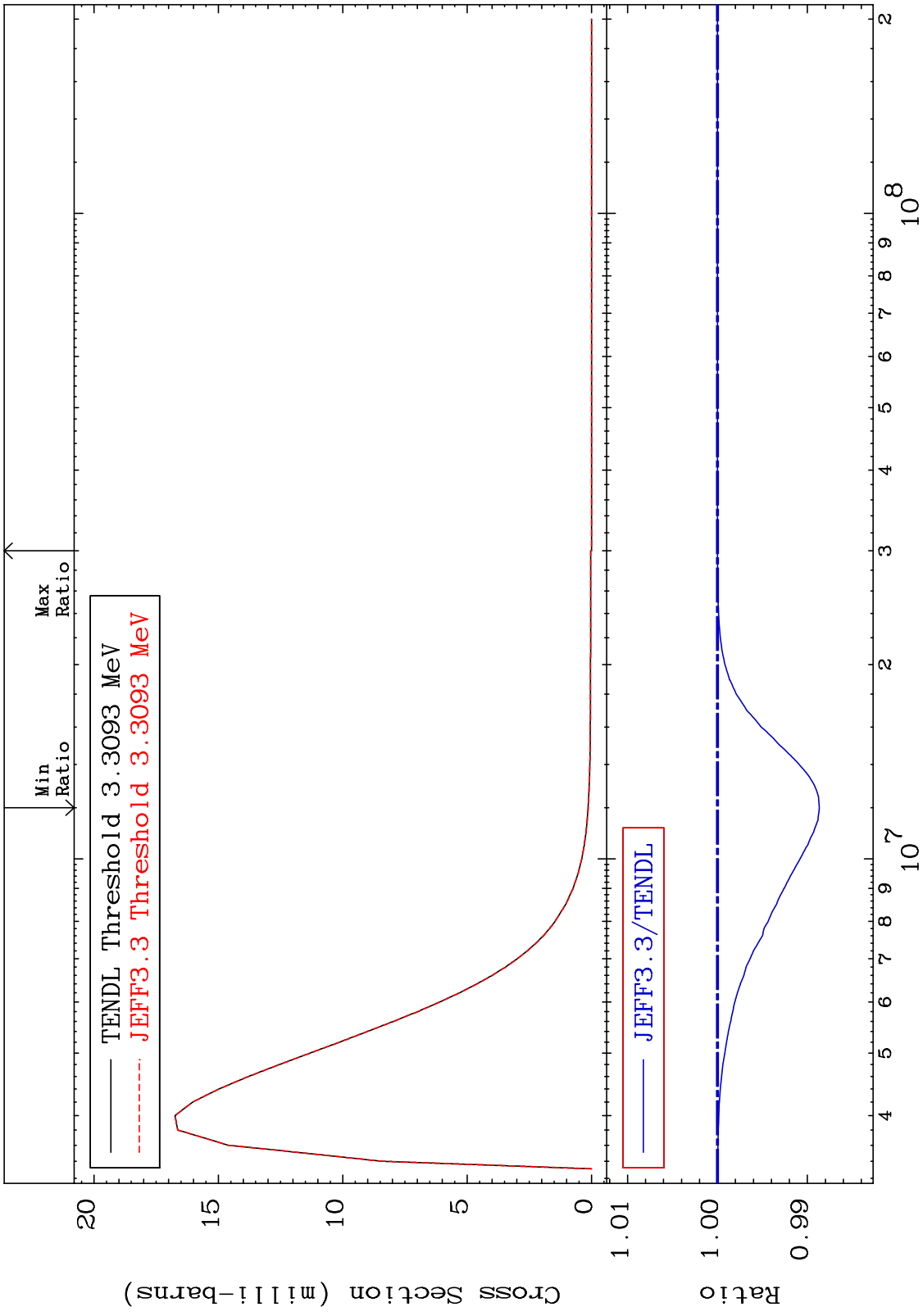


47

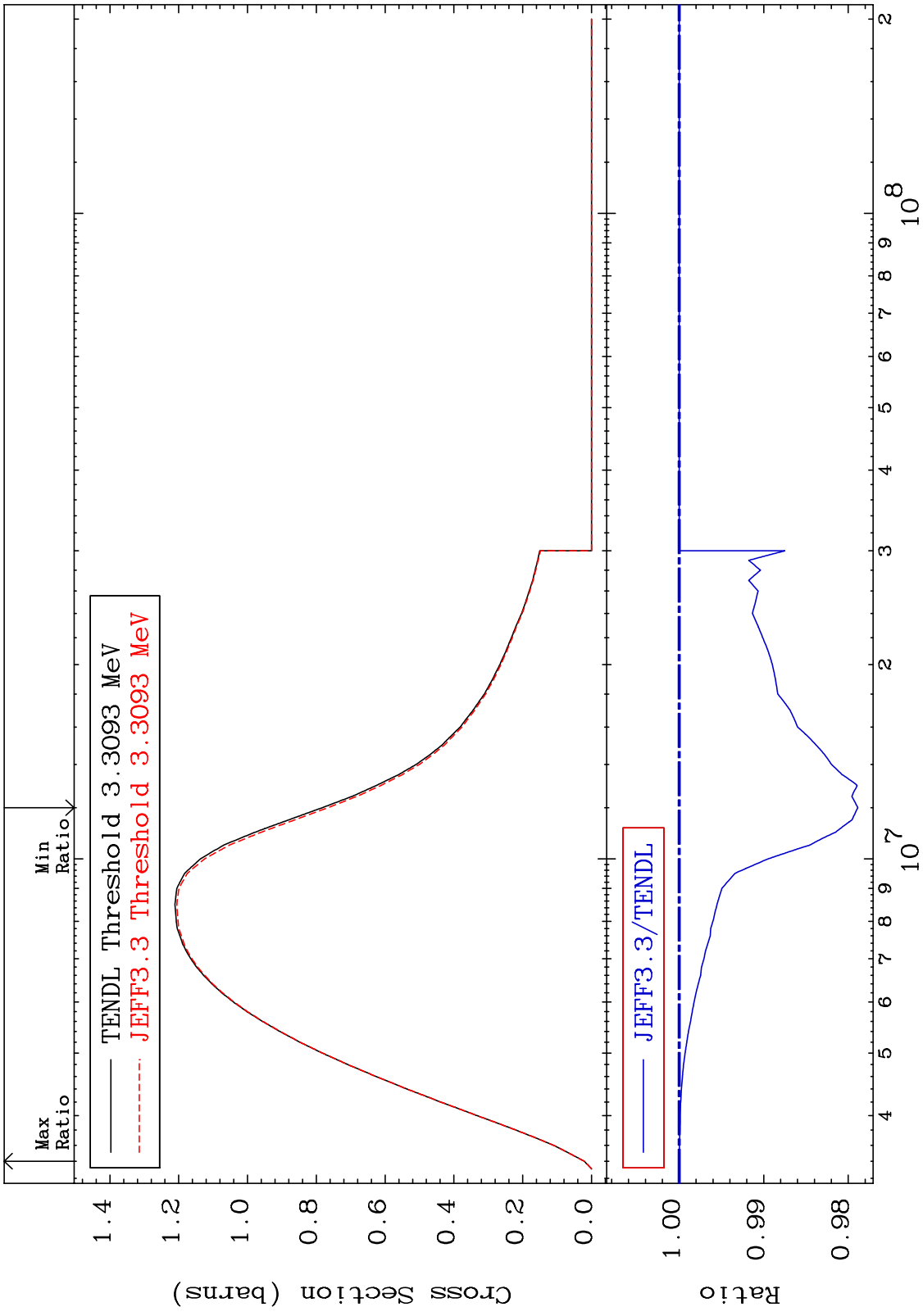
Incident Energy (eV)

19-K -41

MAT 1931 MT= 80 (n,n') Level Cross Section 19-K -41
-1.133 To 0.000 %



MAT 1931 (n,n') Continuum Cross Section 19-K -41 -2.114 To 0.002 %



49 19-K -41

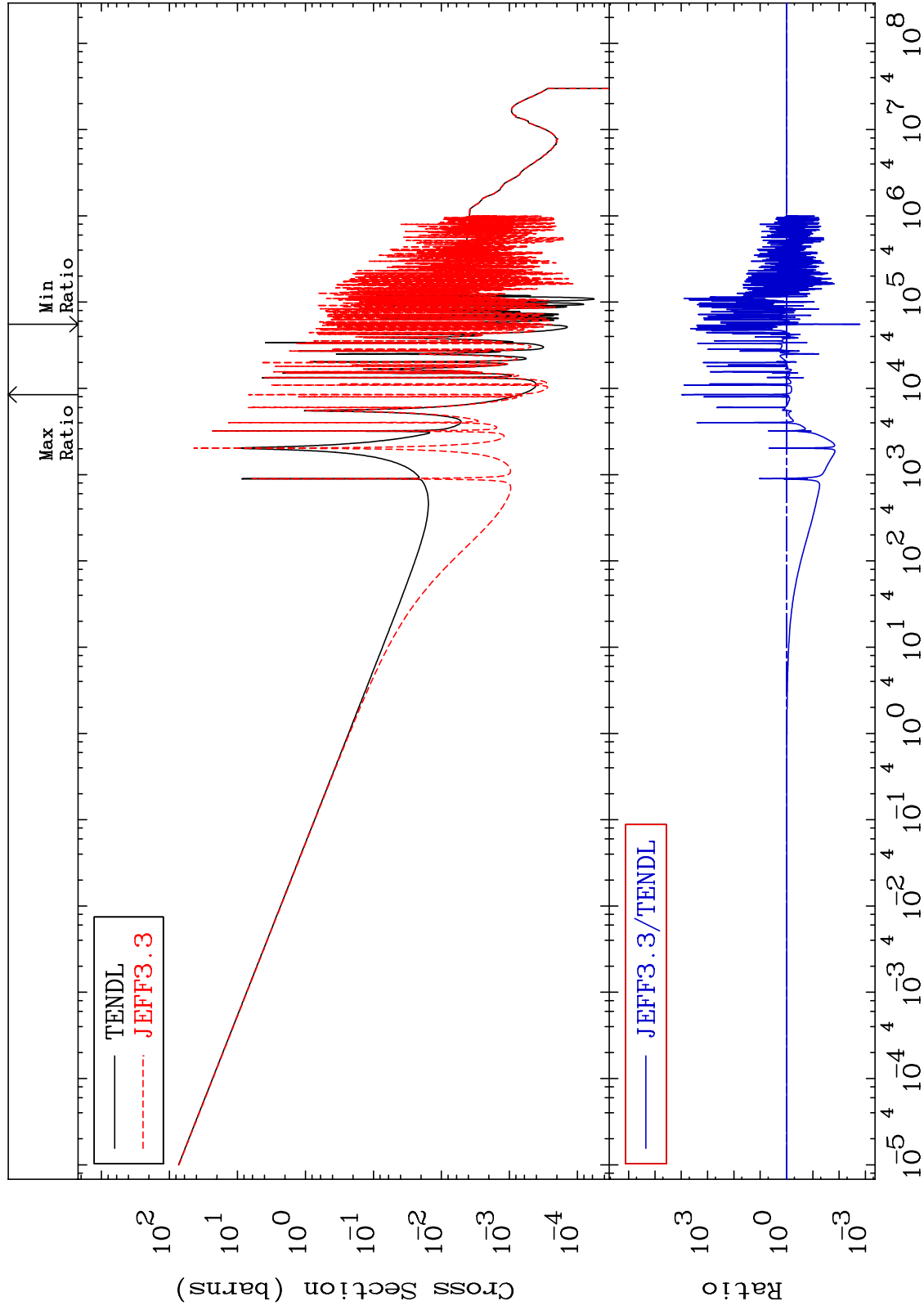
MAT 1931

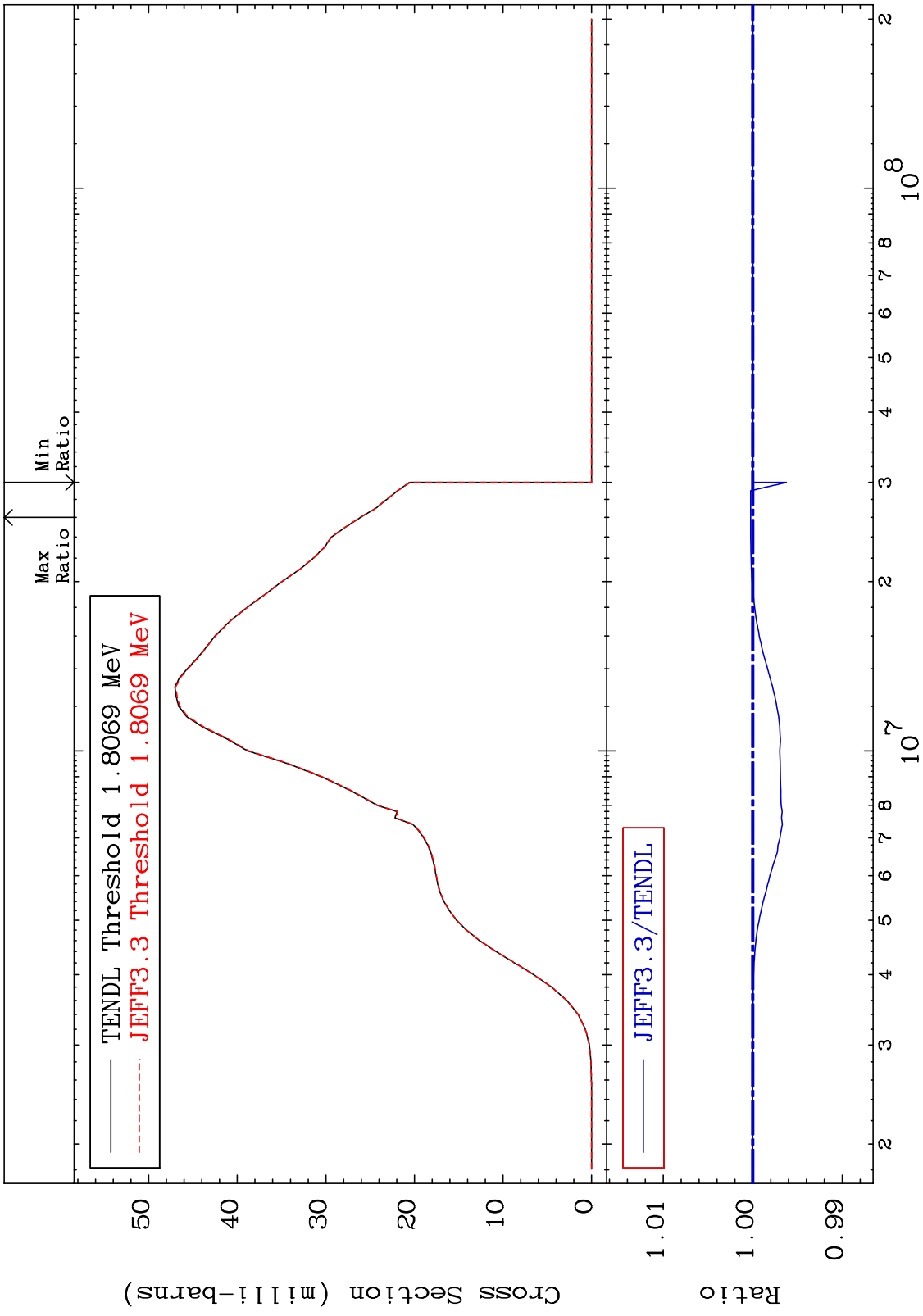
(n, γ)

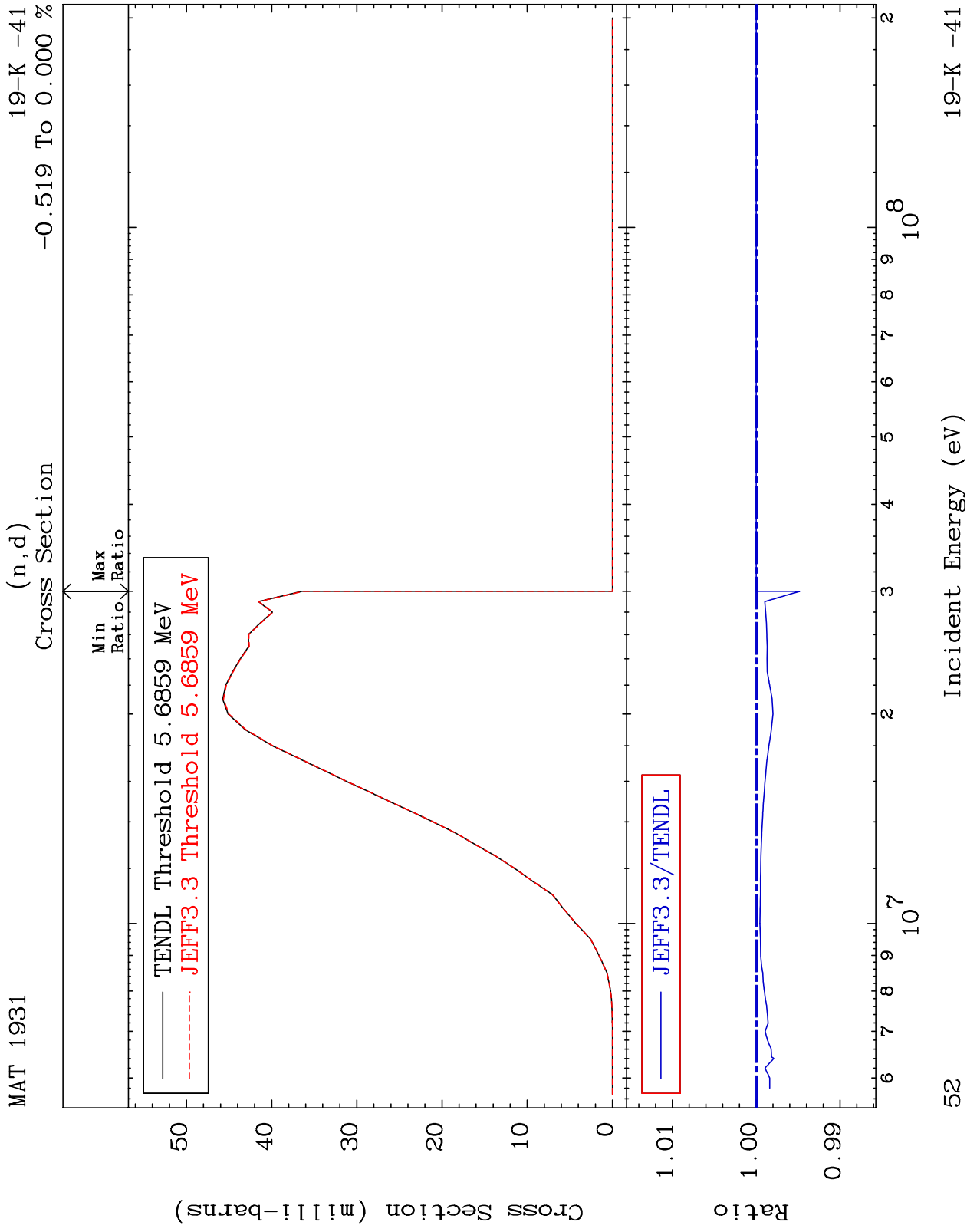
19-K -41

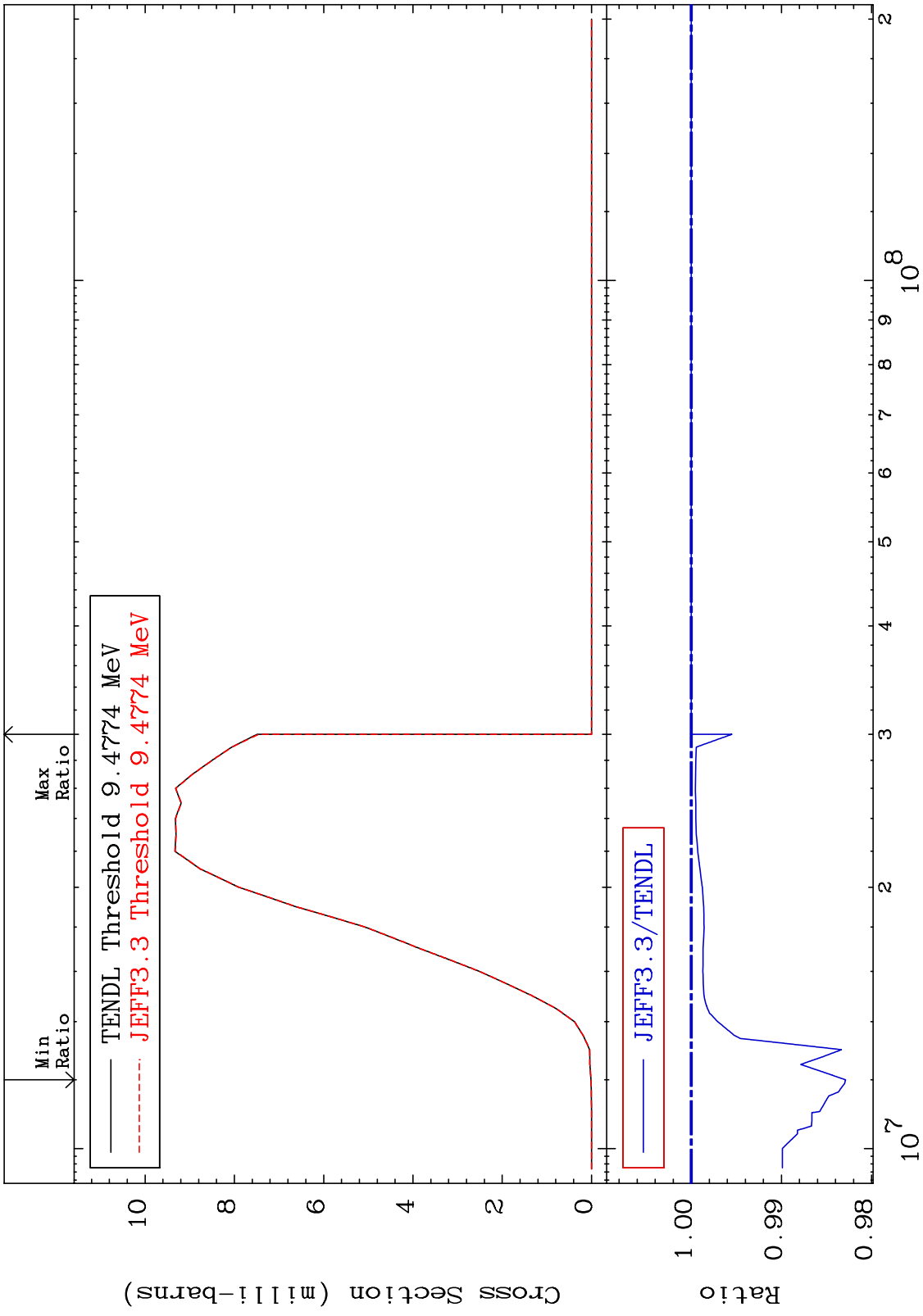
Cross Section

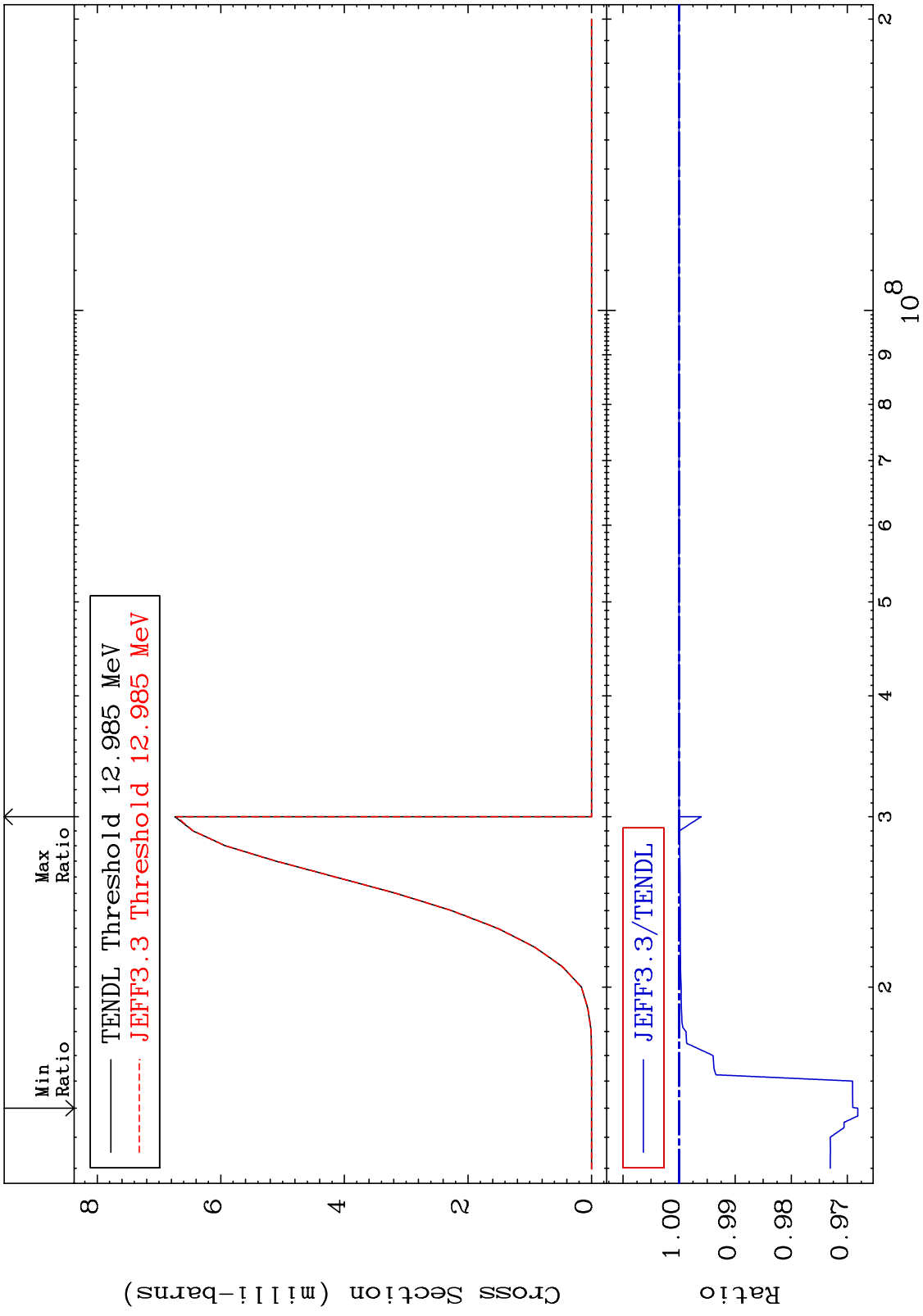
-99.84 To 9999. %

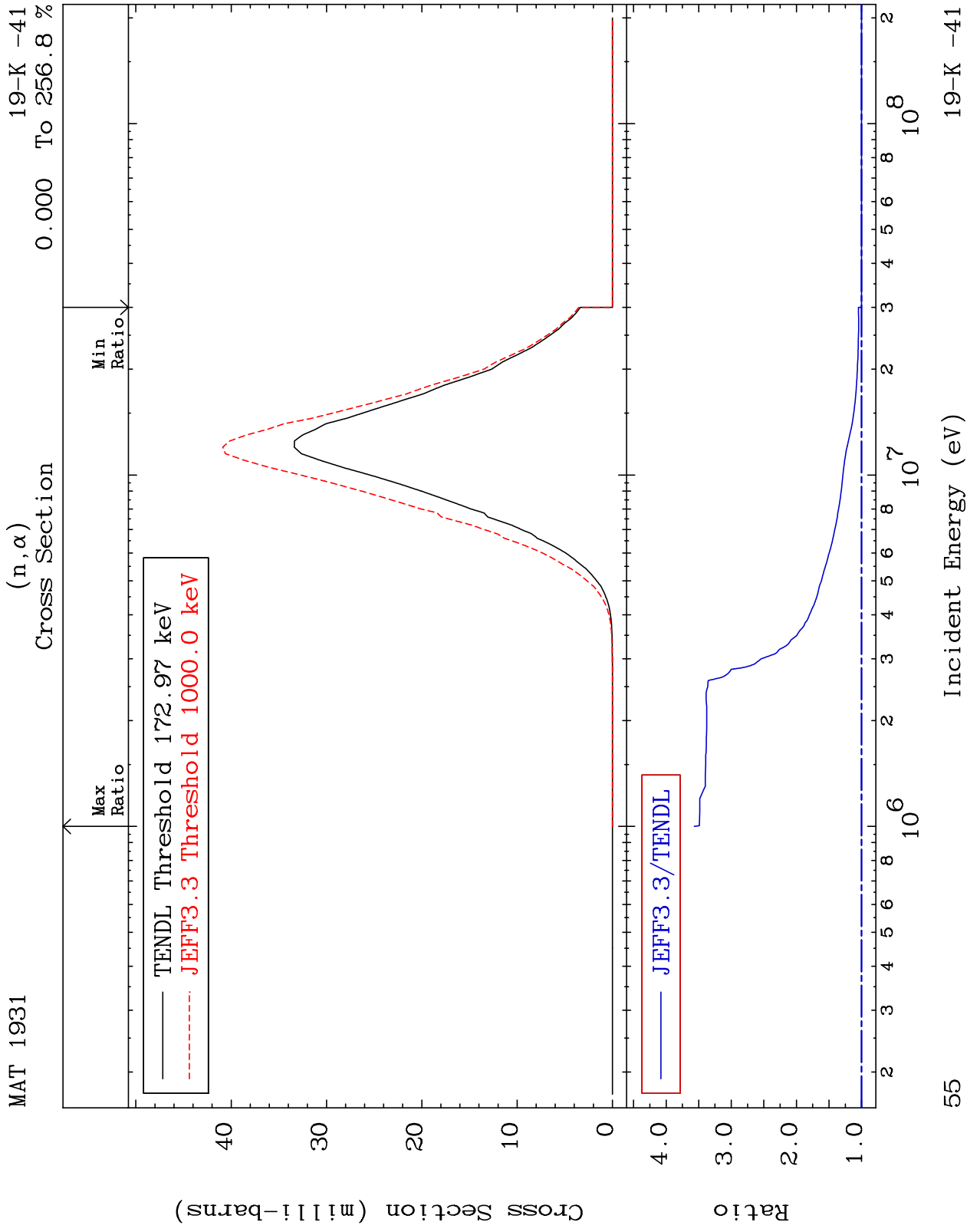


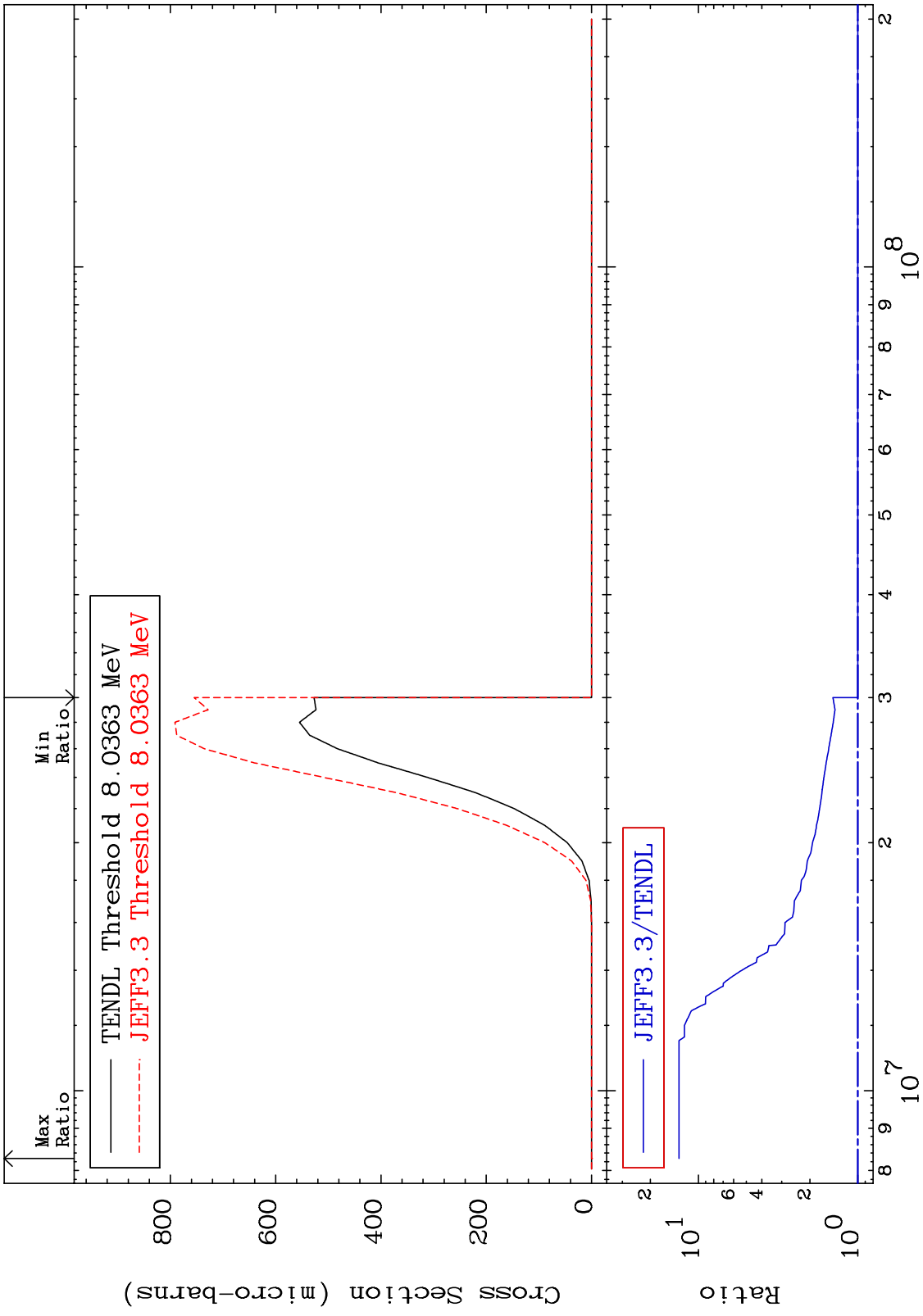




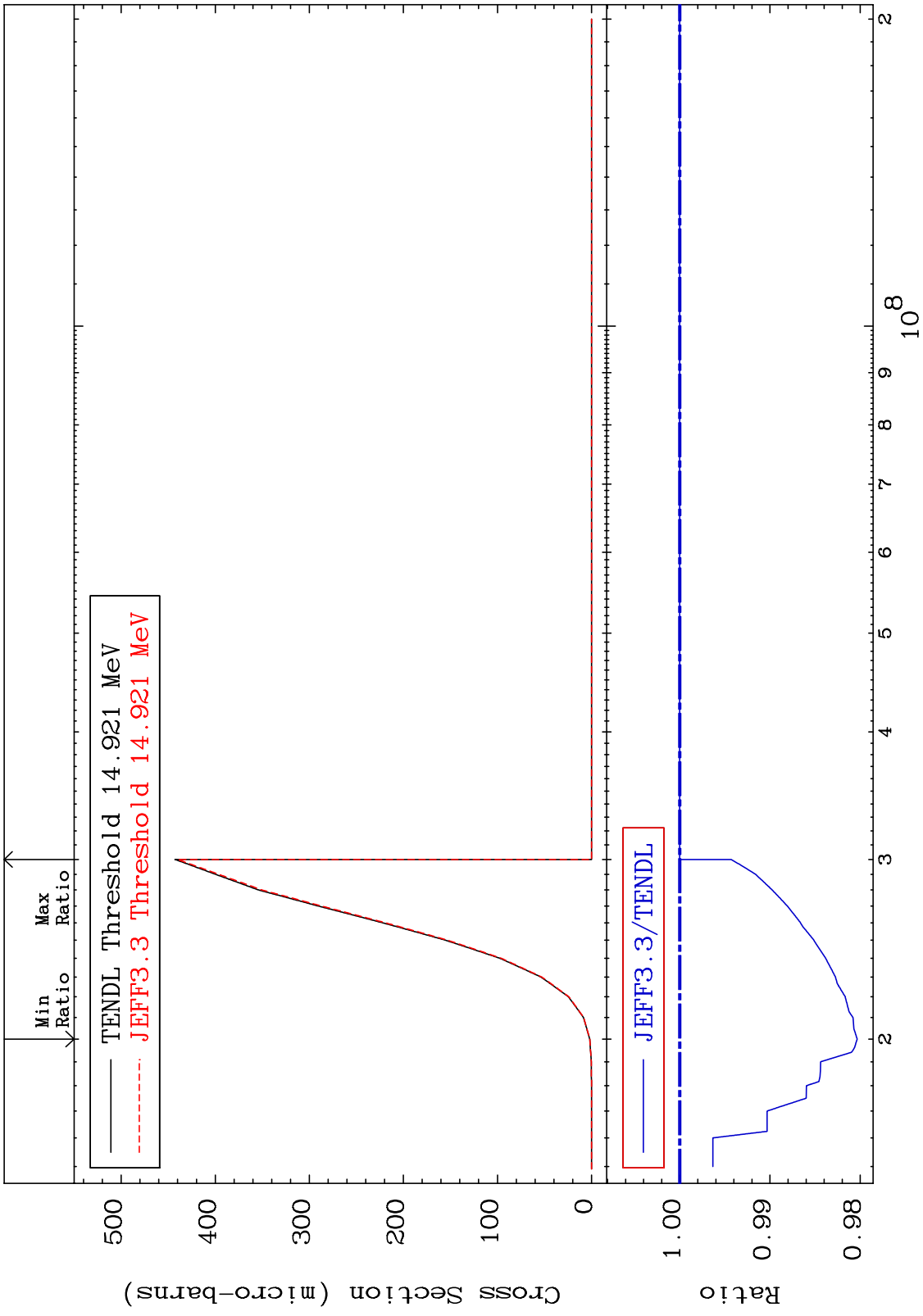




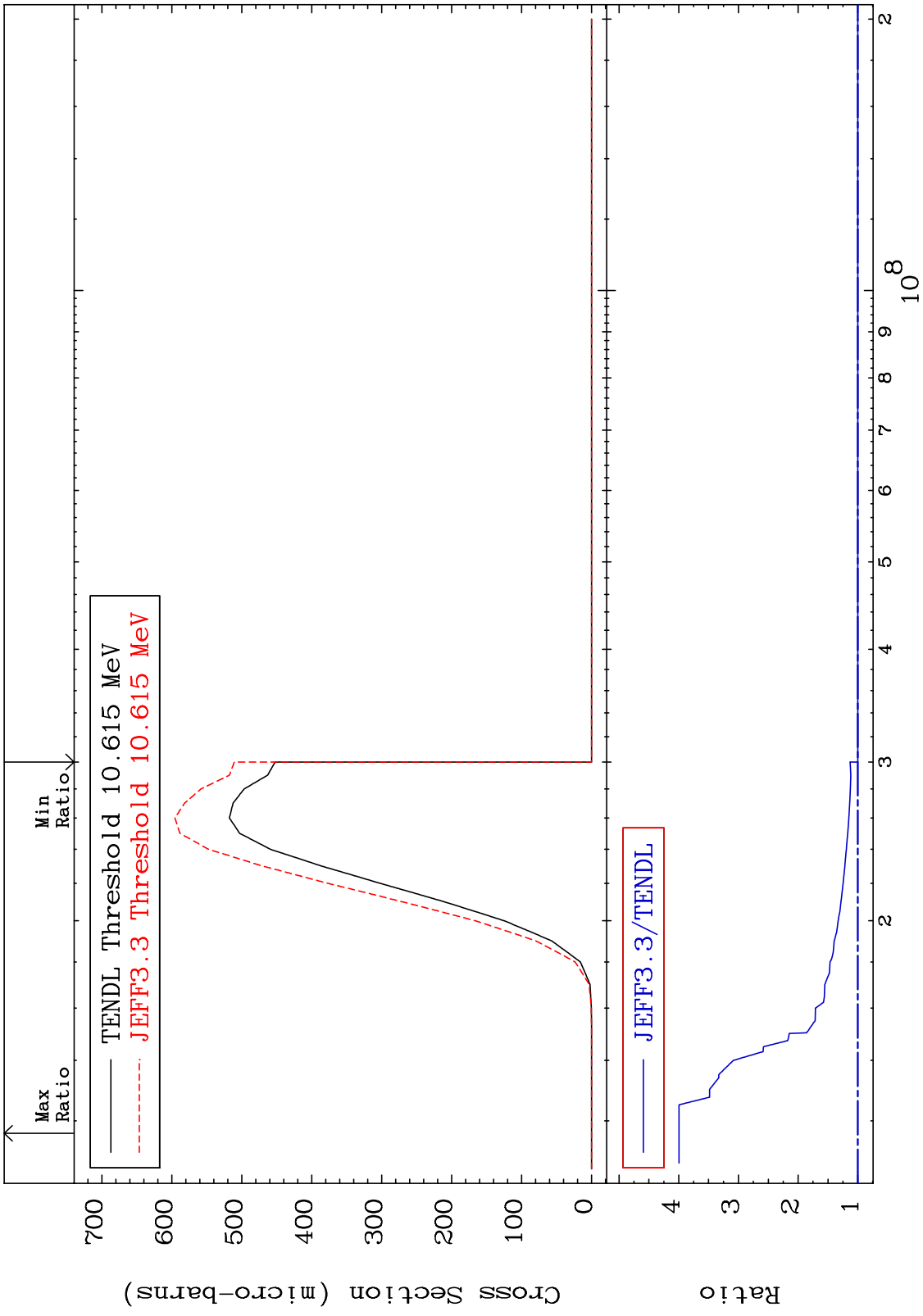




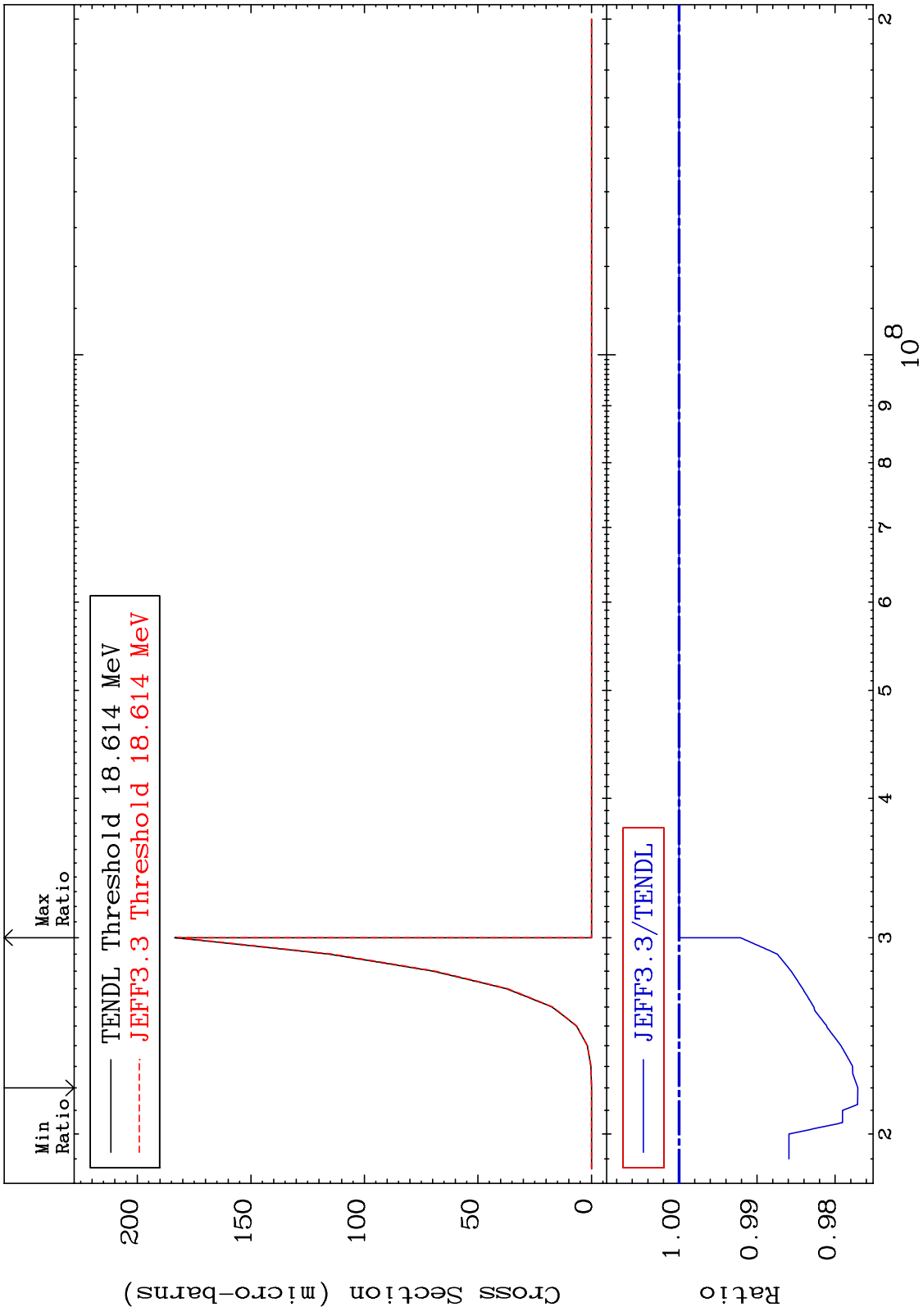
MAT 1931 (n,2p) 19-K -41
 Cross Section -1.965 To 0.000 %



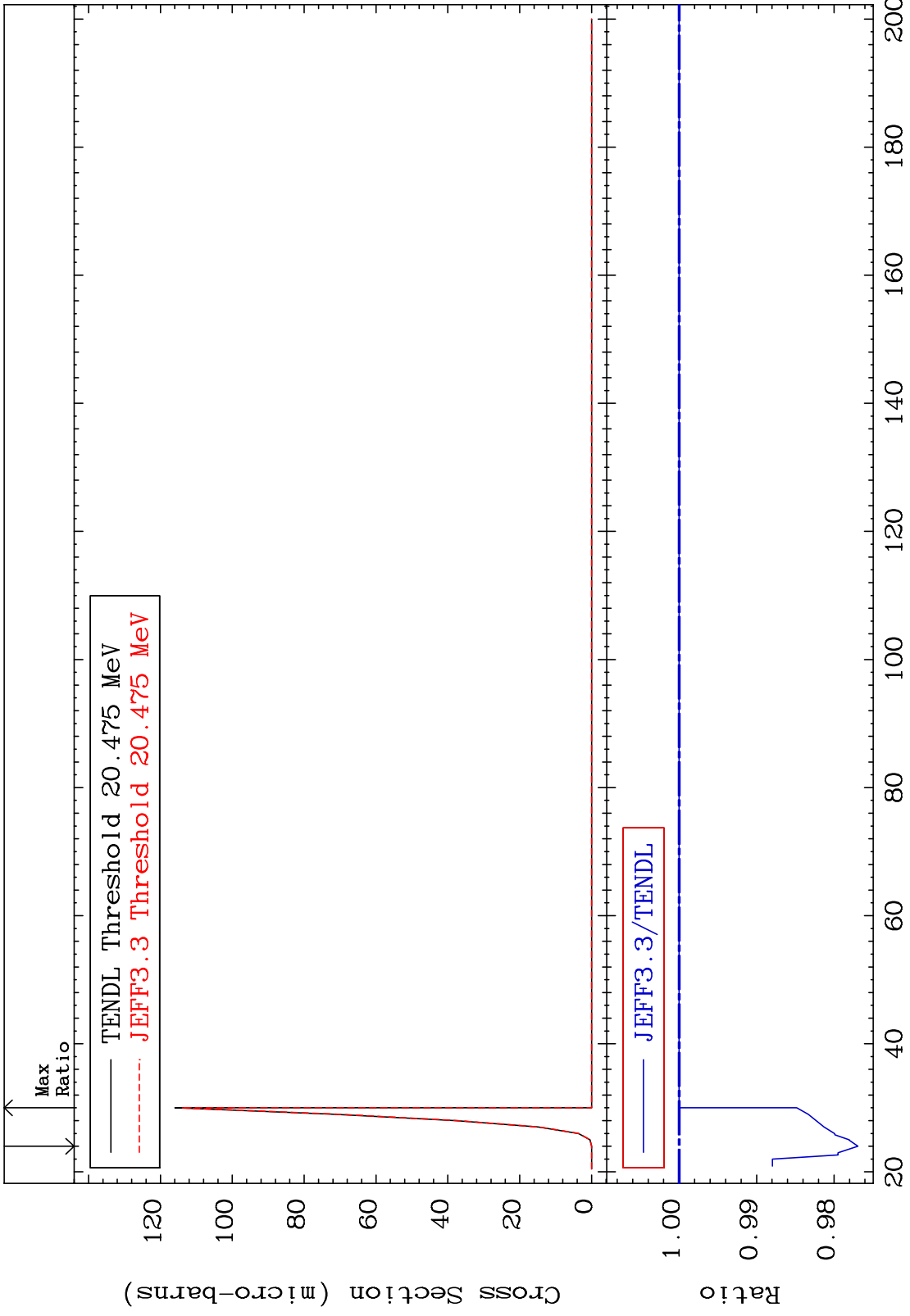
MAT 1931 (n,p) α 19-K -41
 Cross Section 0.000 To 299.4 %



MAT 1931 (n,p) d 19-K -41
 Cross Section -2.291 To 0.000 %

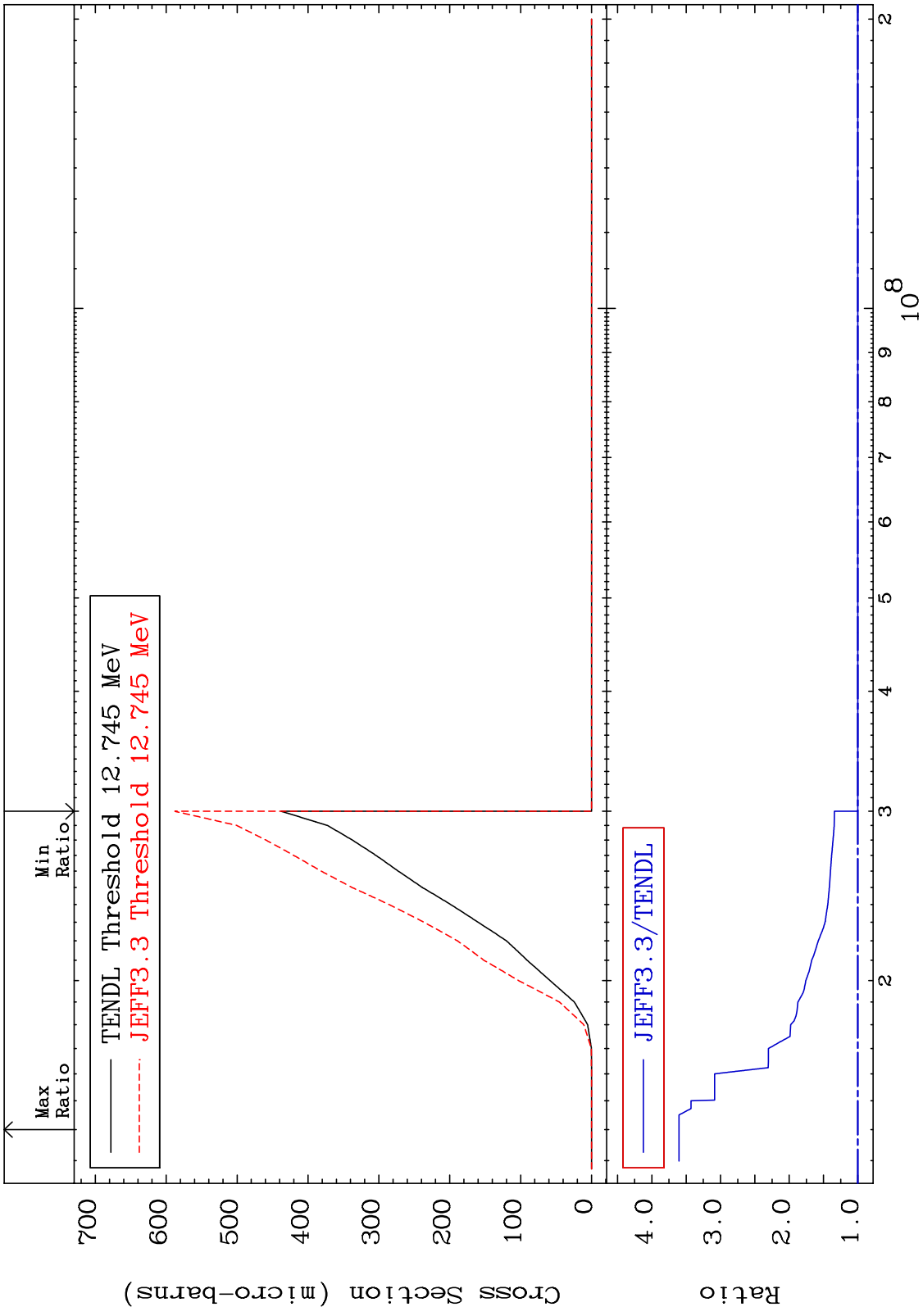


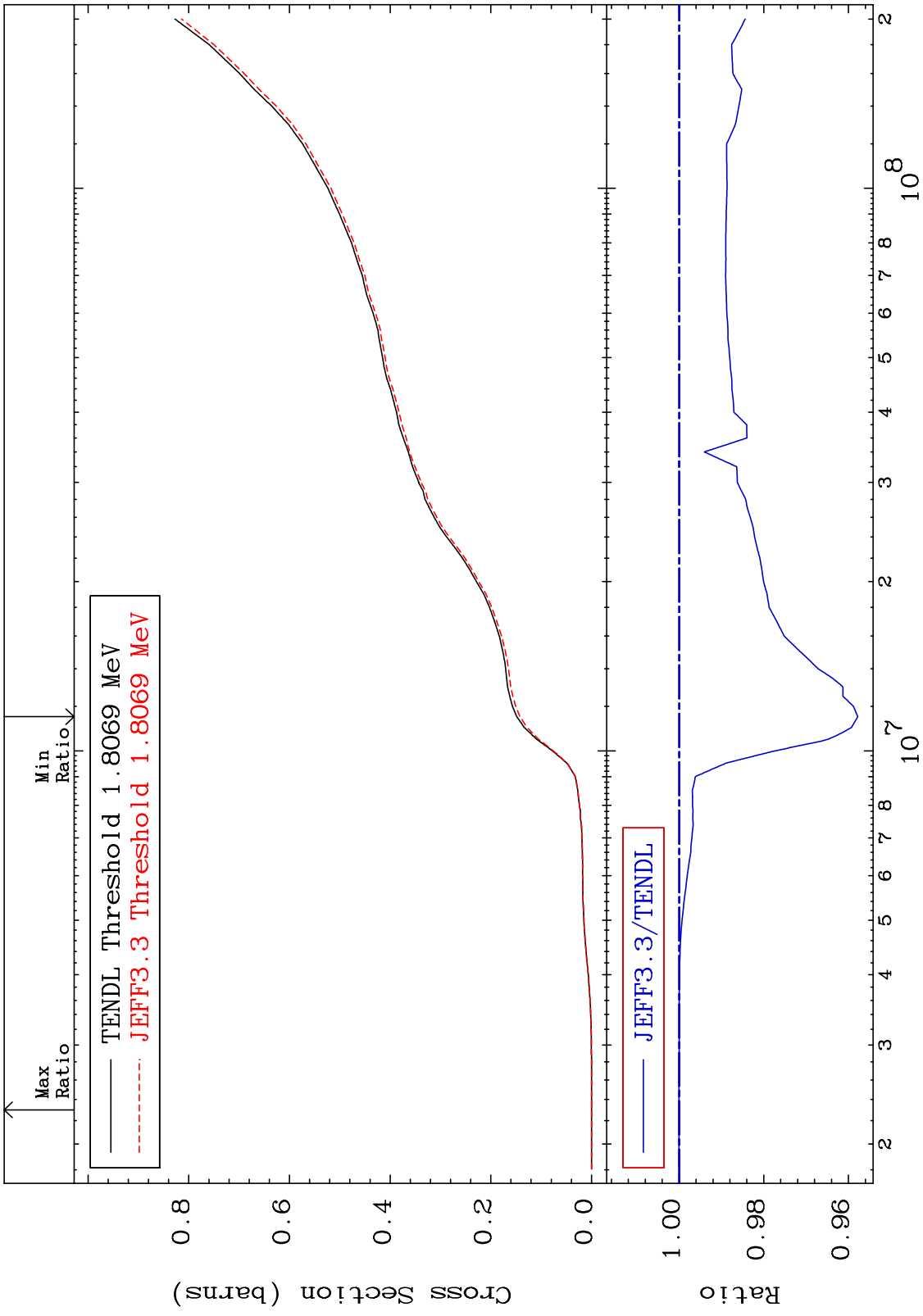
MAT 1931 (n,p) t 19-K -41
Cross Section -2.309 To 0.000 %



60 Incident Energy (MeV) 19-K -41

MAT 1931 (n,d) α 19-K -41
 Cross Section 0.000 To 260.4 %

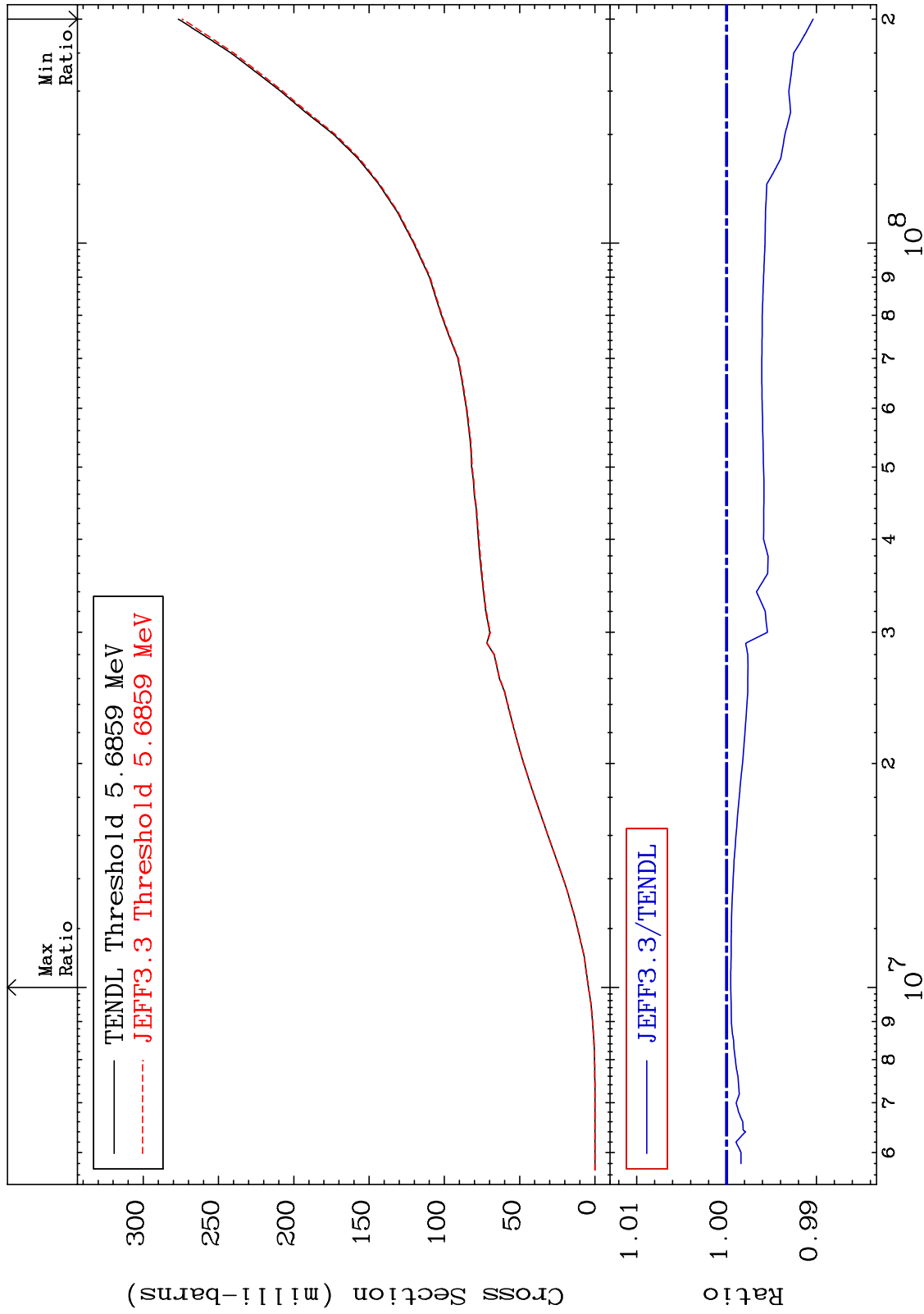




MAT 1931

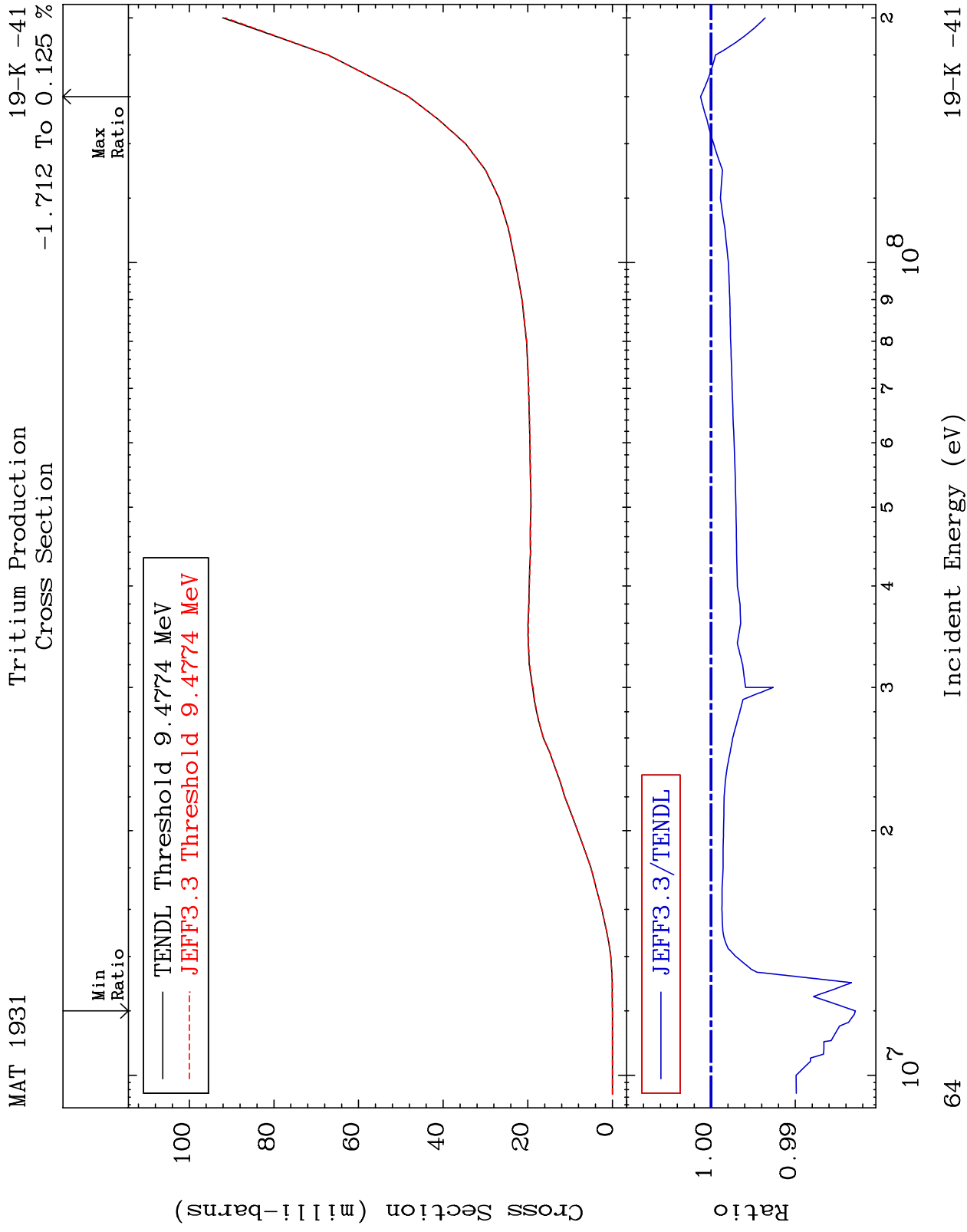
Deuterium Production
Cross Section

19-K -41
-0.964 To -0.045%



63

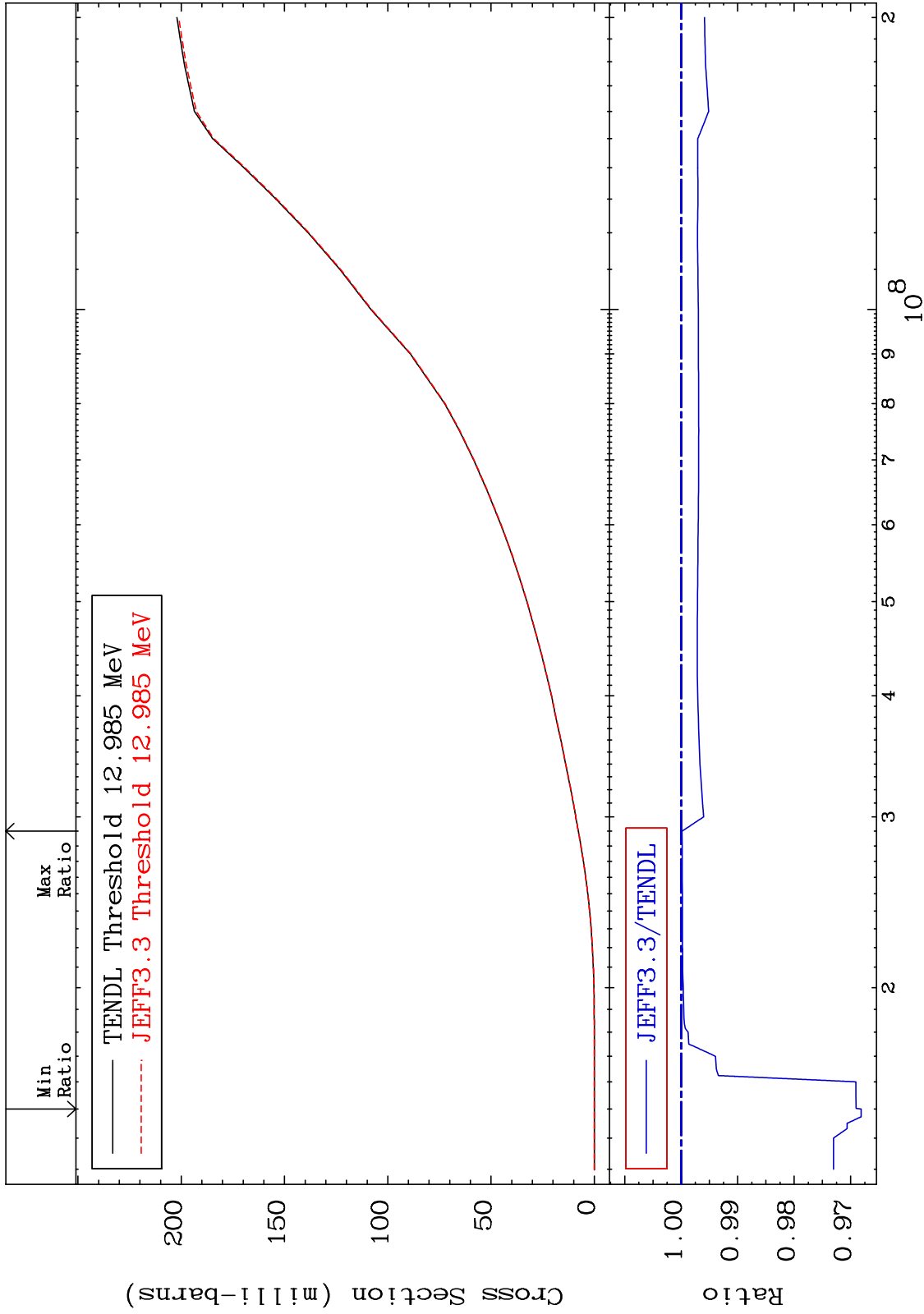
19-K -41



MAT 1931

He-3 Production
Cross Section

19-K -41
-3.187 To -0.015%



65

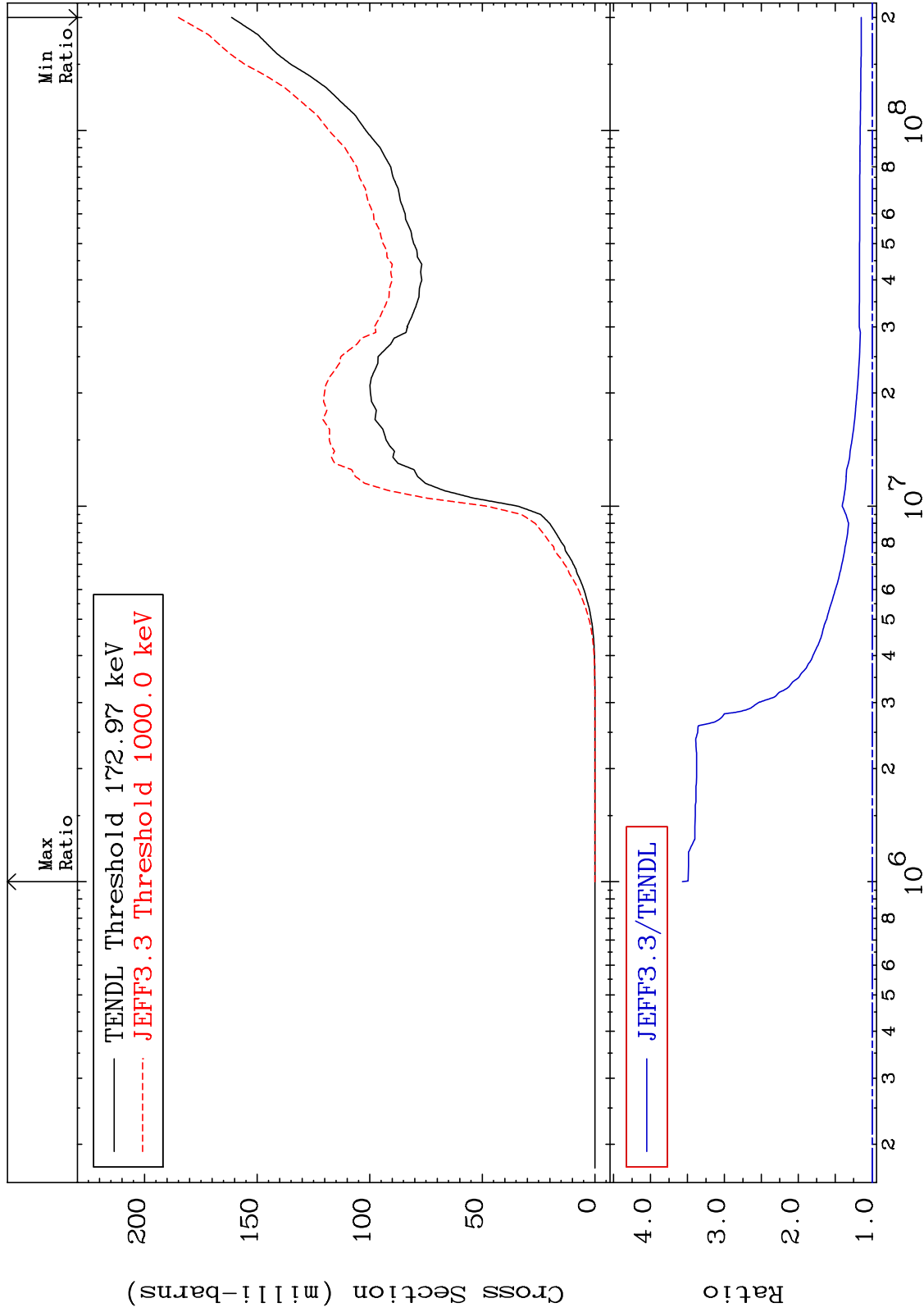
Incident Energy (eV)

19-K -41

MAT 1931

He-4 Production
Cross Section

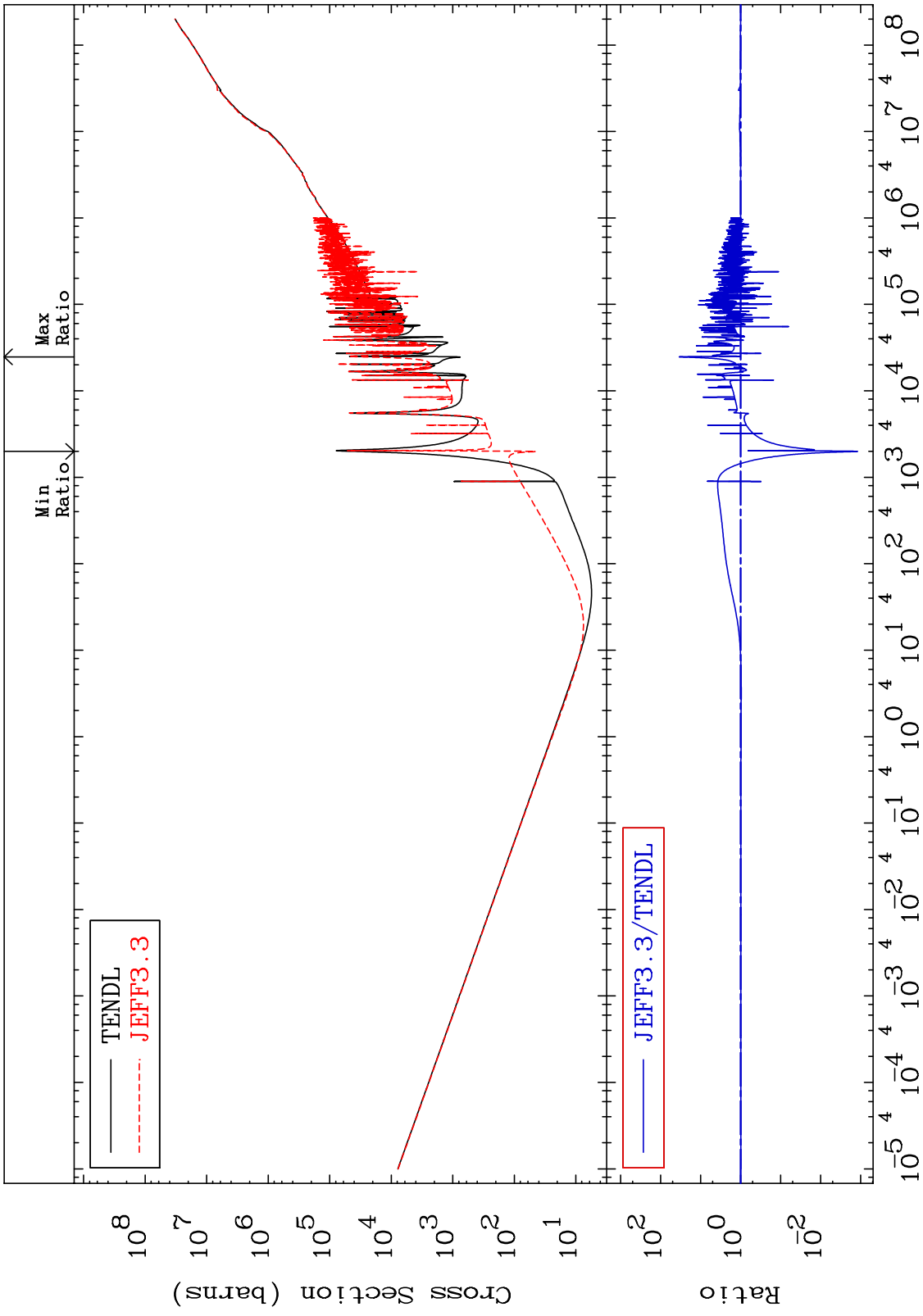
19-K -41
14.67 To 256.8 %



66

19-K -41

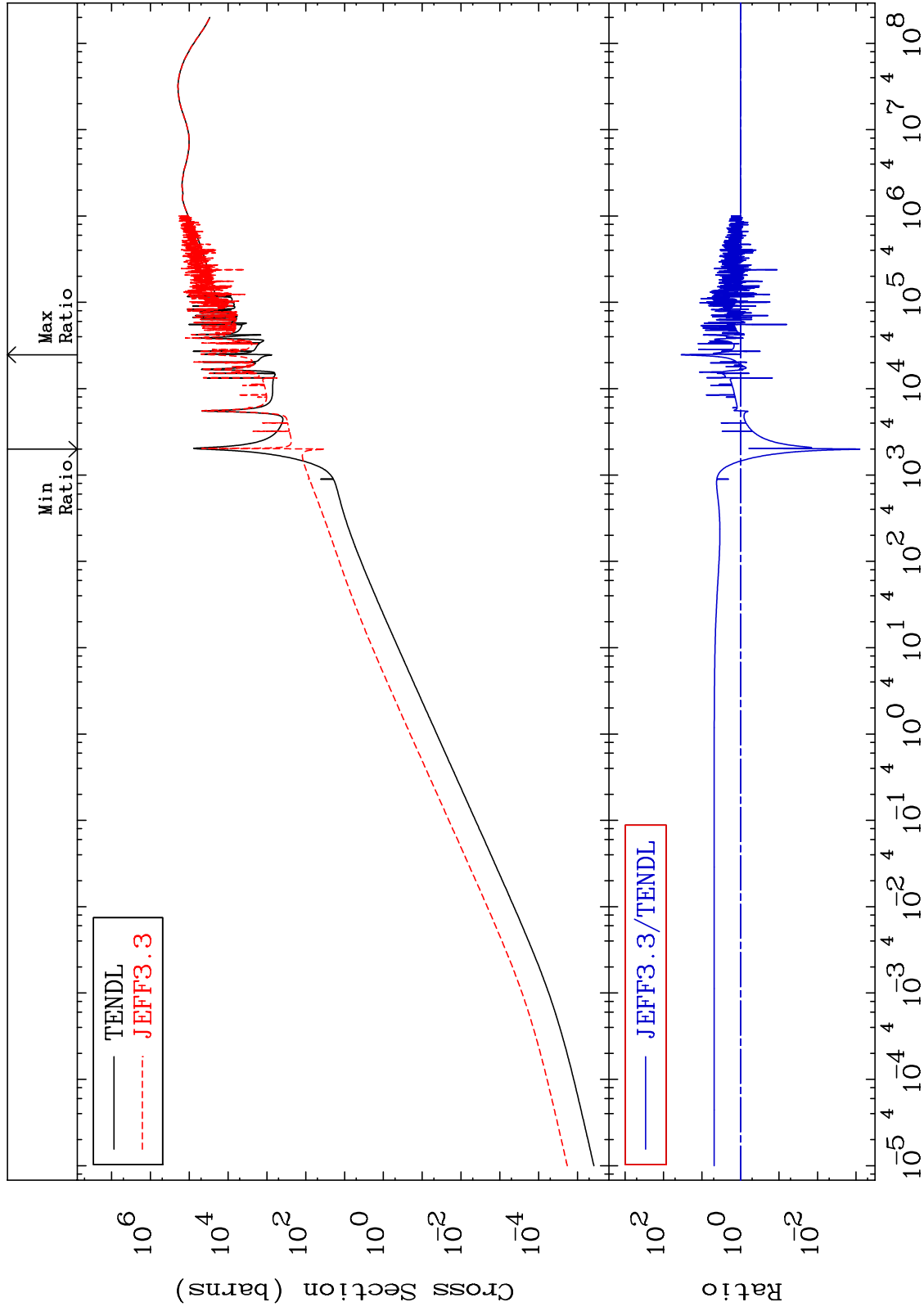
MAT 1931 Kerma total (eV-barns) Cross Section 19-K -41 -99.88 To 3357. %



MAT 1931

Kerma elastic
Cross Section

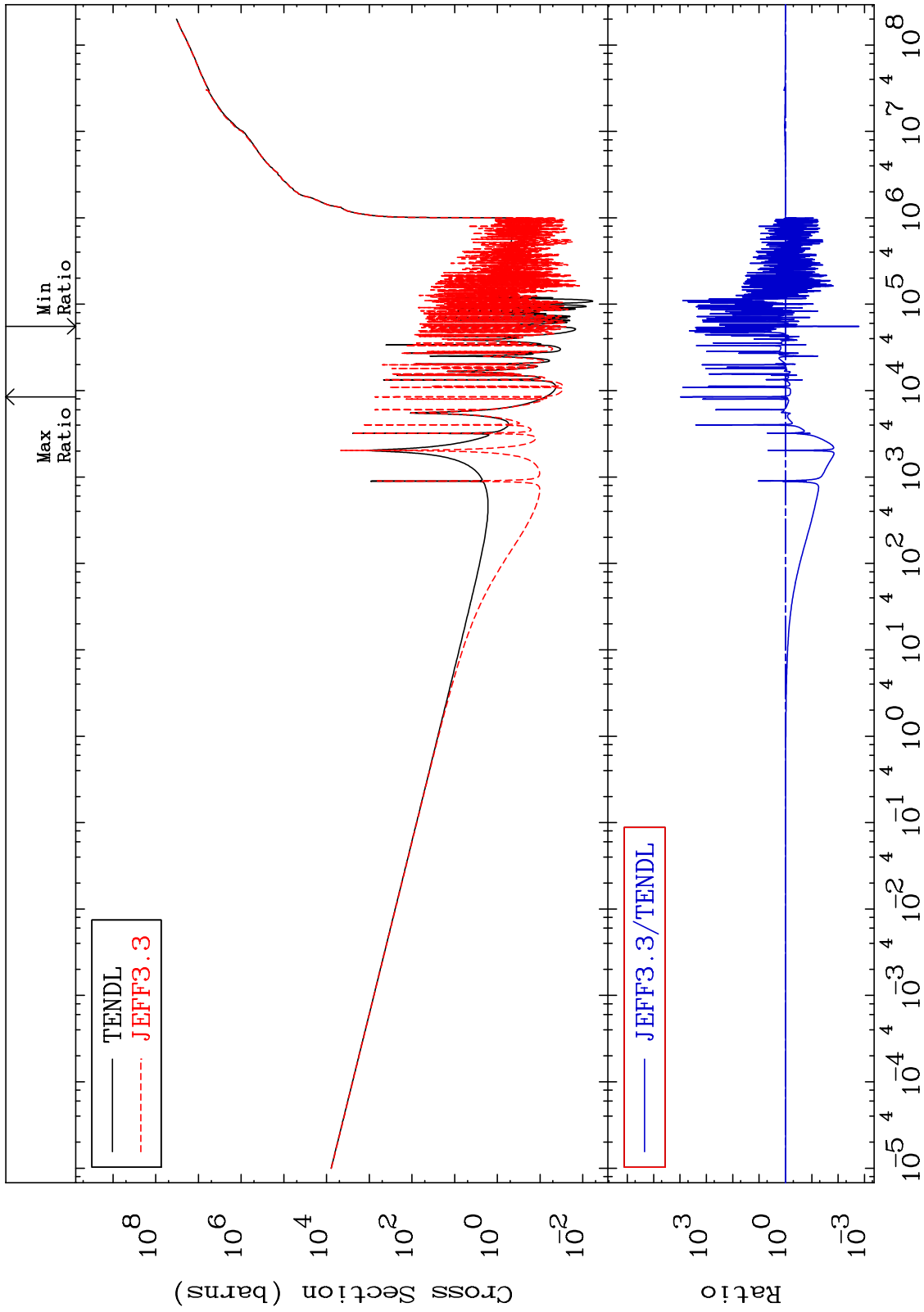
19-K -41
-99.92 To 3363. %



MAT 1931

Kerma non-elastic (all but mt2)
Cross Section

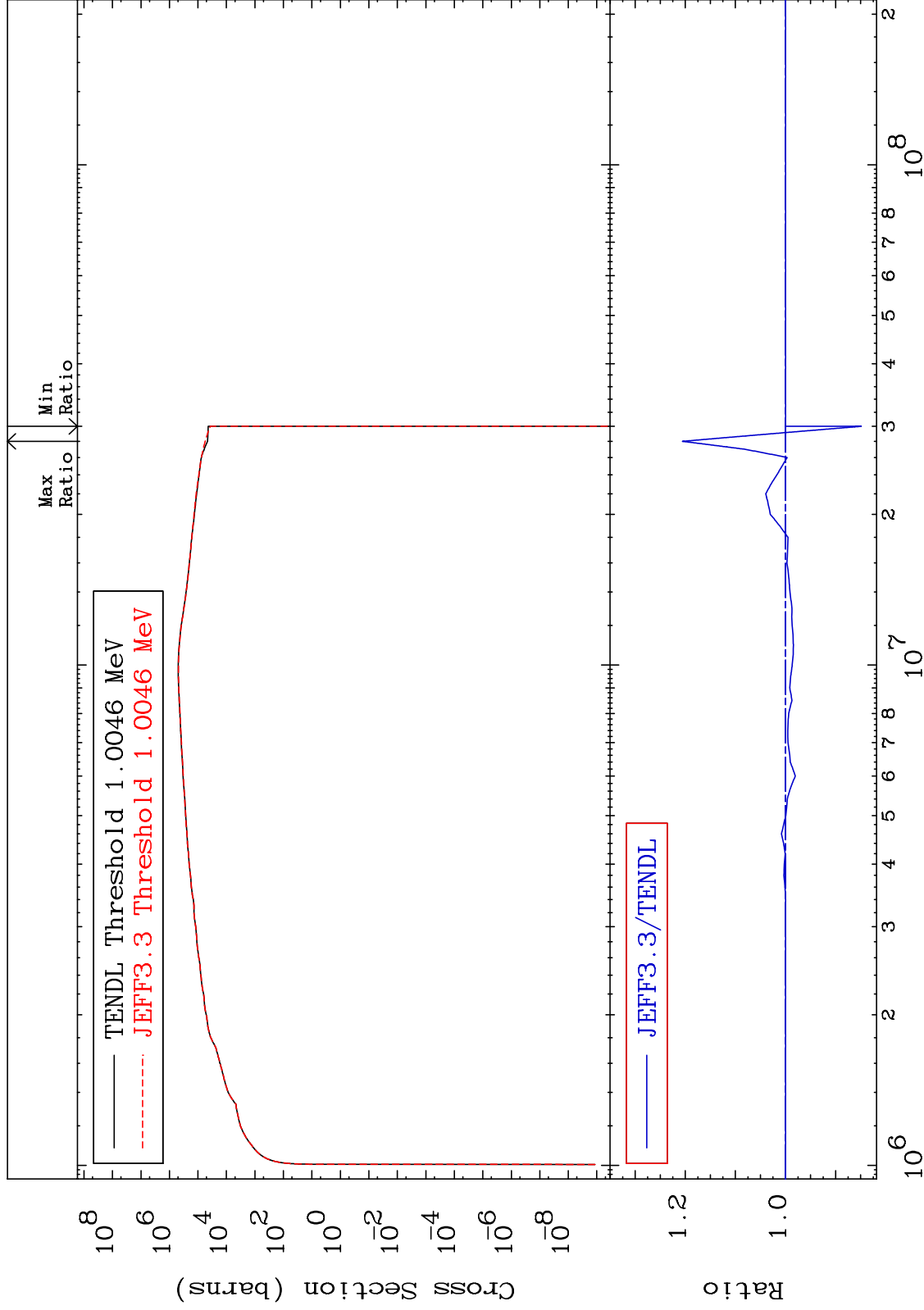
19-K -41
-99.84 To 9999. %



MAT 1931

Kerma inelastic (mt51-91)
Cross Section

19-K -41
-15.12 To 20.57 %



70

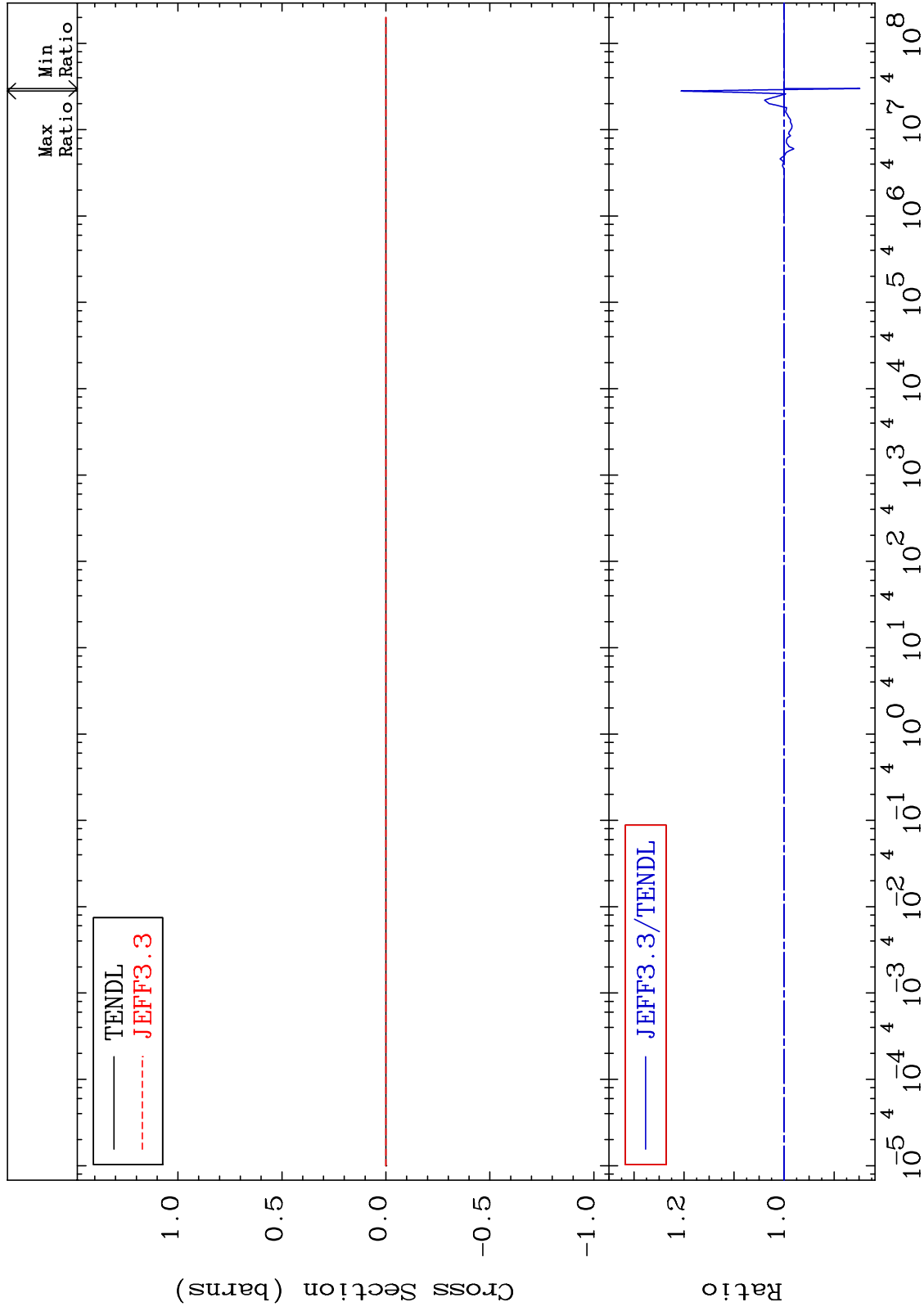
Incident Energy (eV)

19-K -41

MAT 1931

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

19-K -41
-15.12 To 20.57 %



71

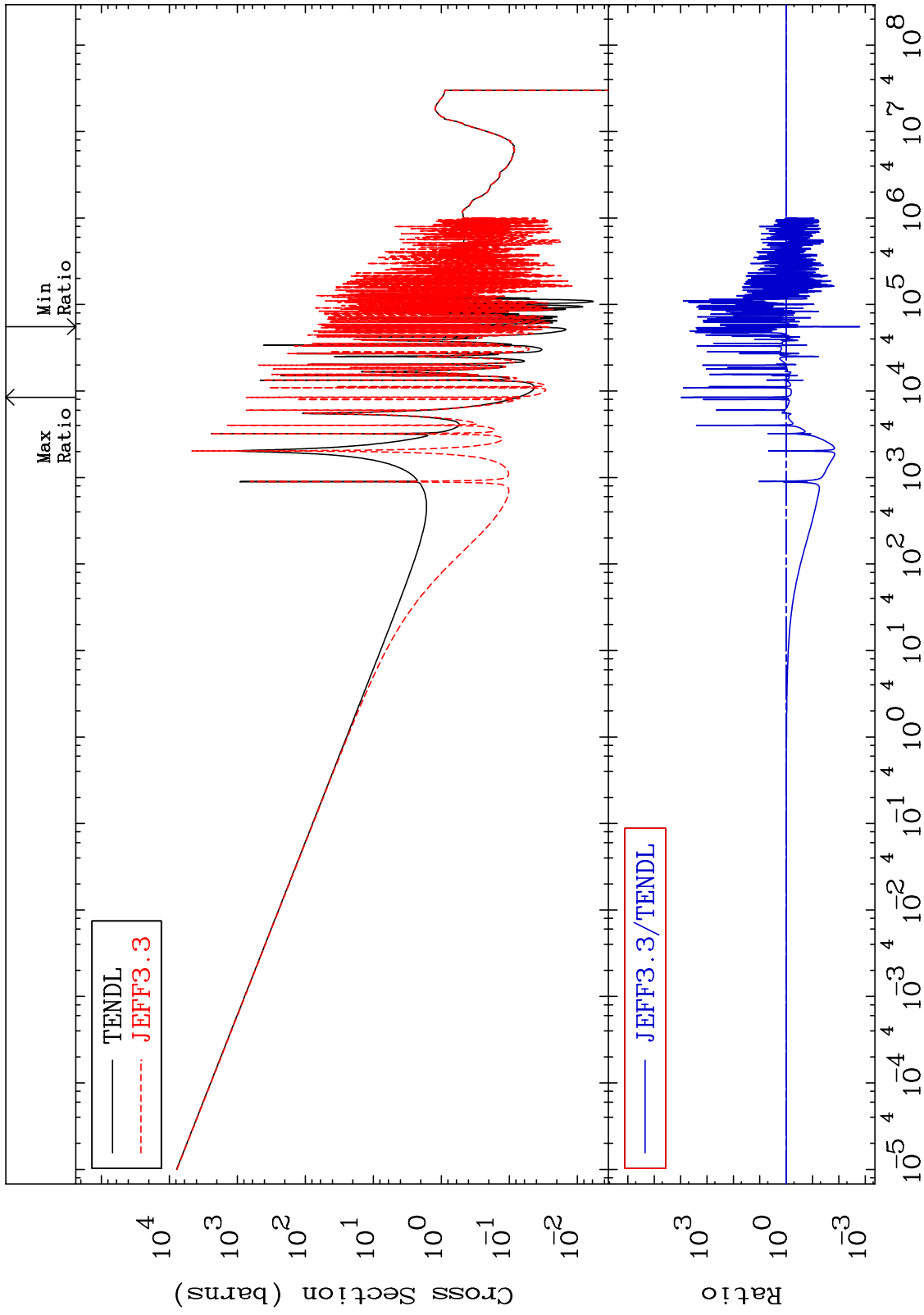
Incident Energy (eV)

19-K -41

MAT 1931

Kerma capture (mt102)
Cross Section

19-K -41
-99.84 To 9999. %



72

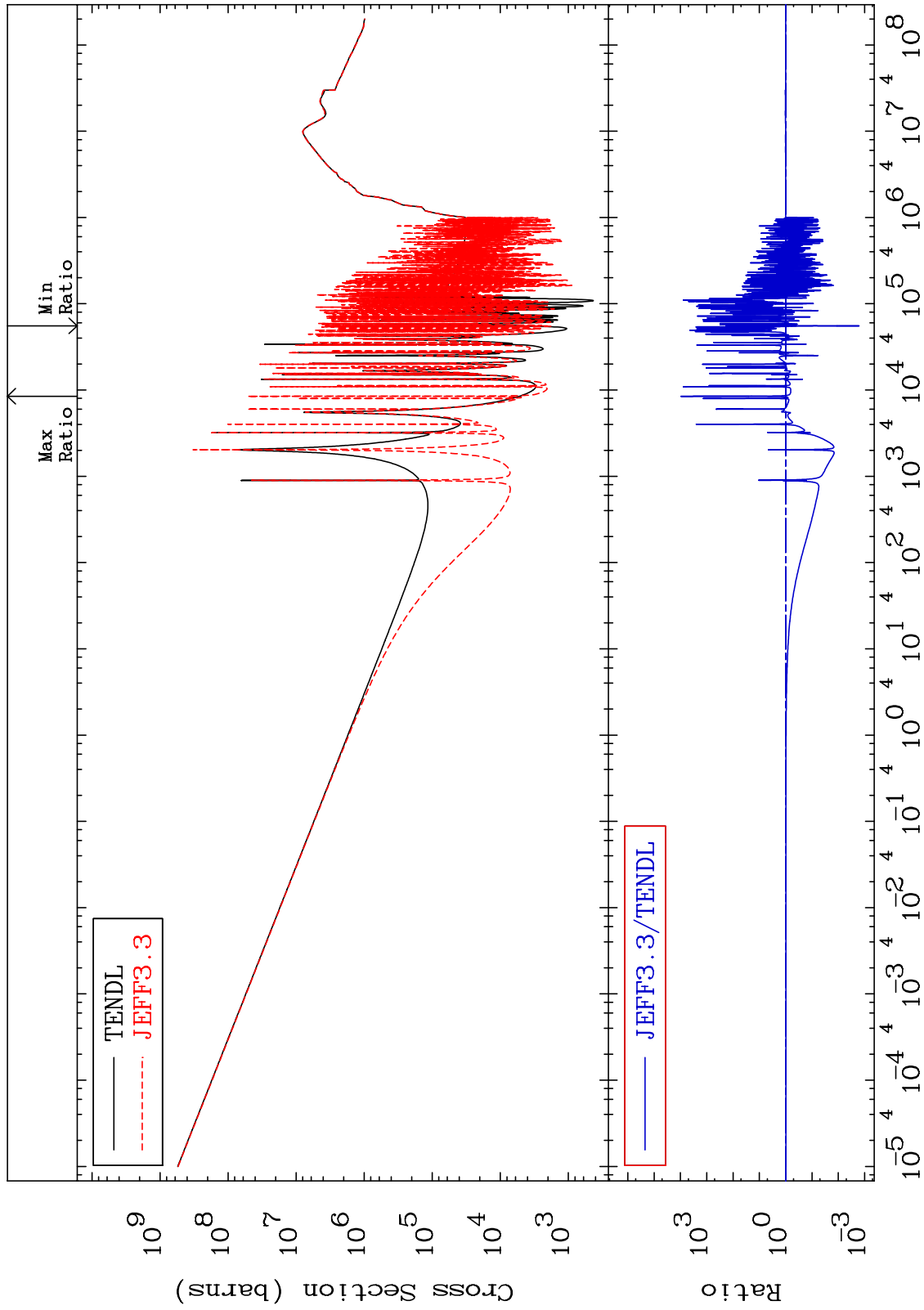
Incident Energy (eV)

19-K -41

MAT 1931

Total photon (eV-barns)
Cross Section

19-K -41
-99.84 To 9999. %

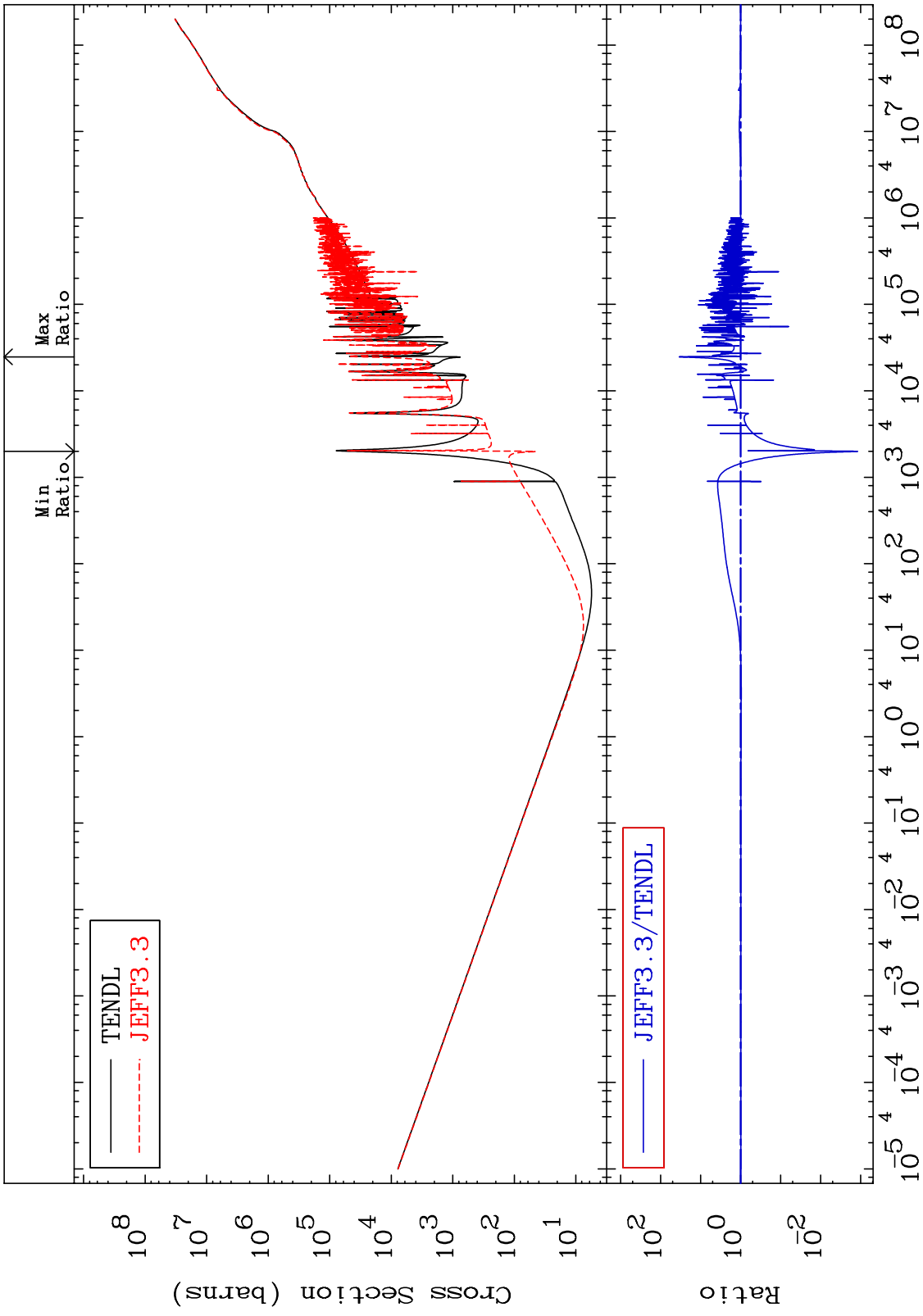


73

Incident Energy (eV)

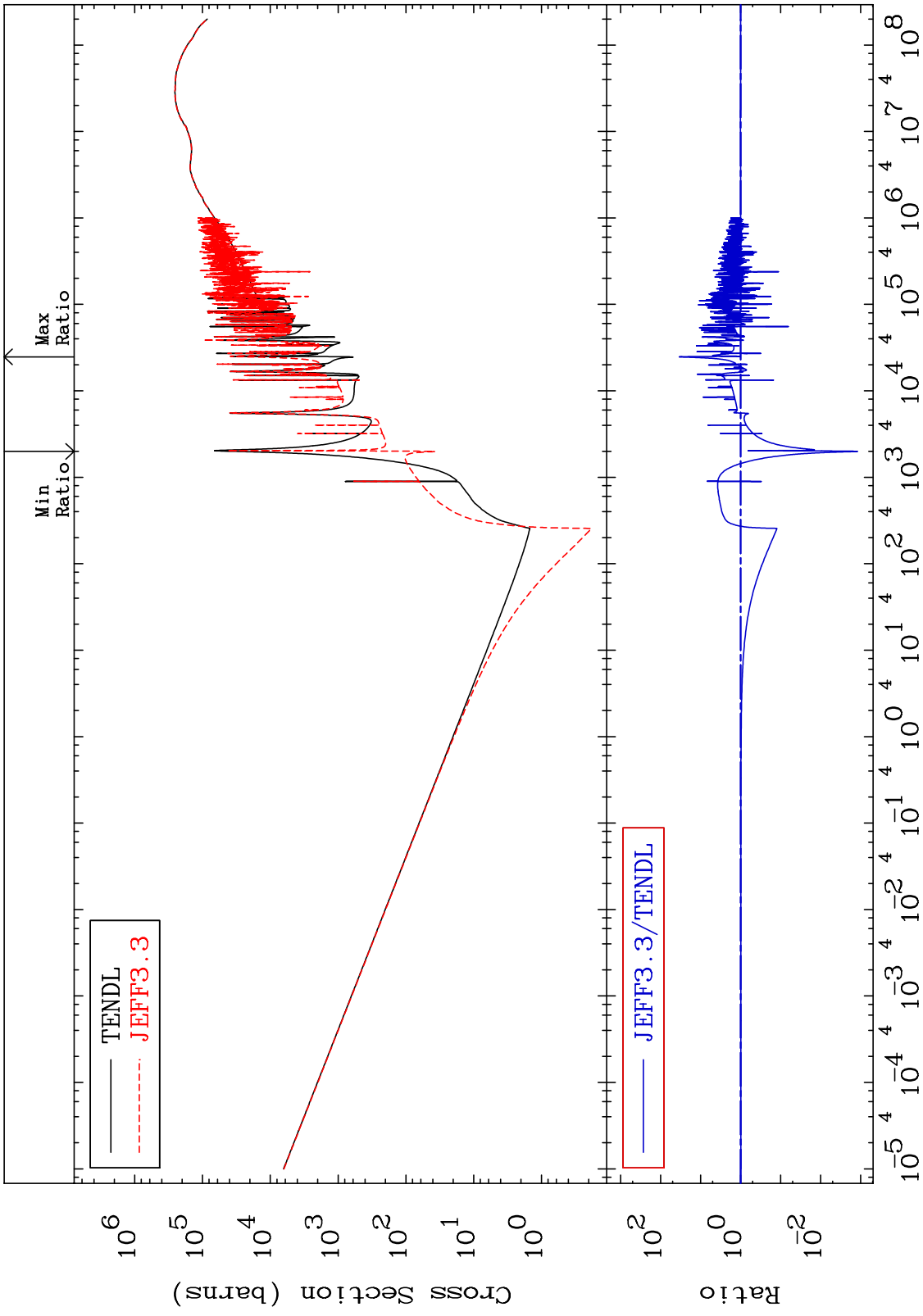
19-K -41

MAT 1931 Total kinematic kerma (high limit) 19-K -41
 Cross Section -99.88 To 3357. %

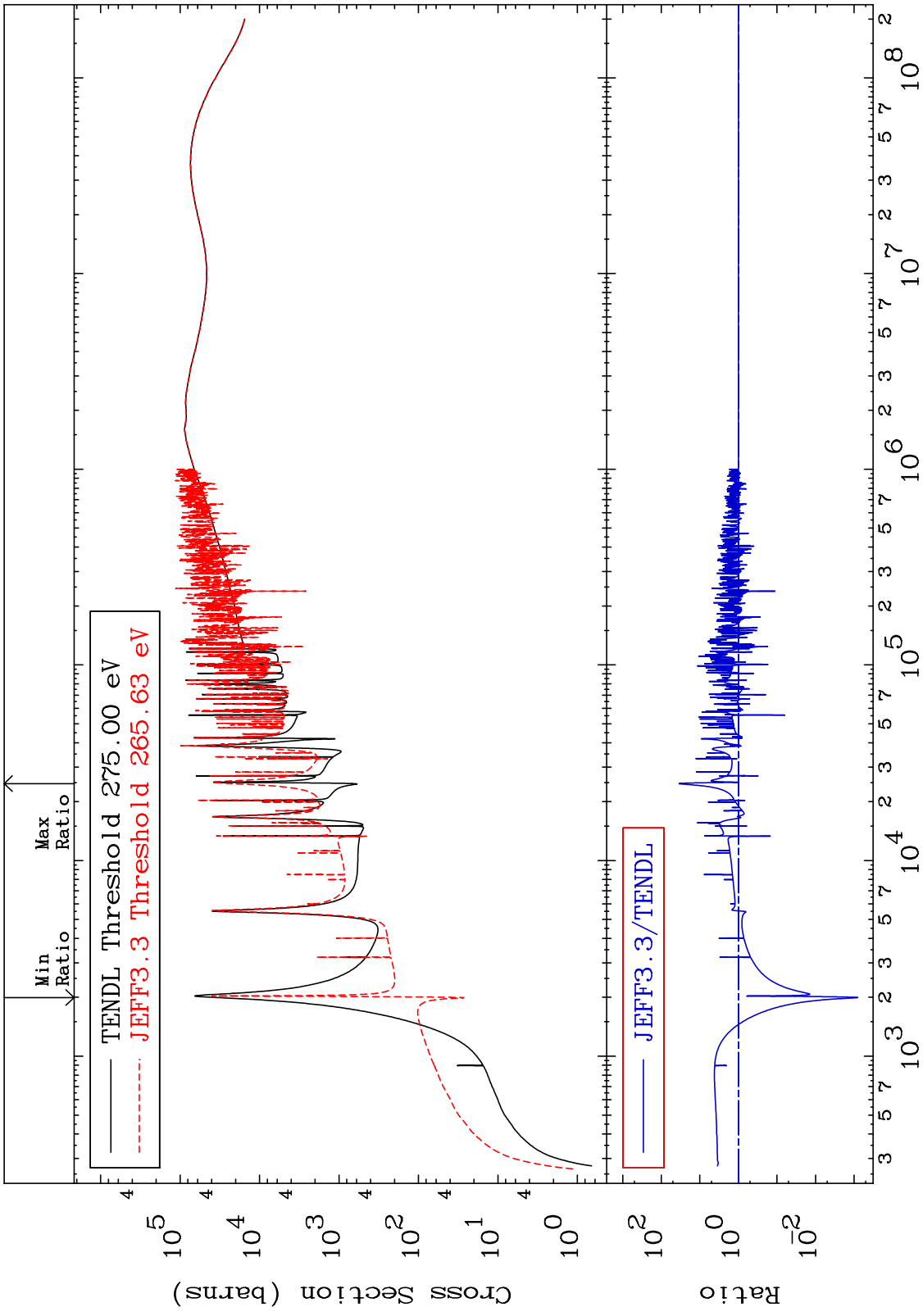


74 Incident Energy (eV) 19-K -41

MAT 1931 Dpa total (eV-barns) 19-K -41
 Cross Section -99.88 To 3357. %



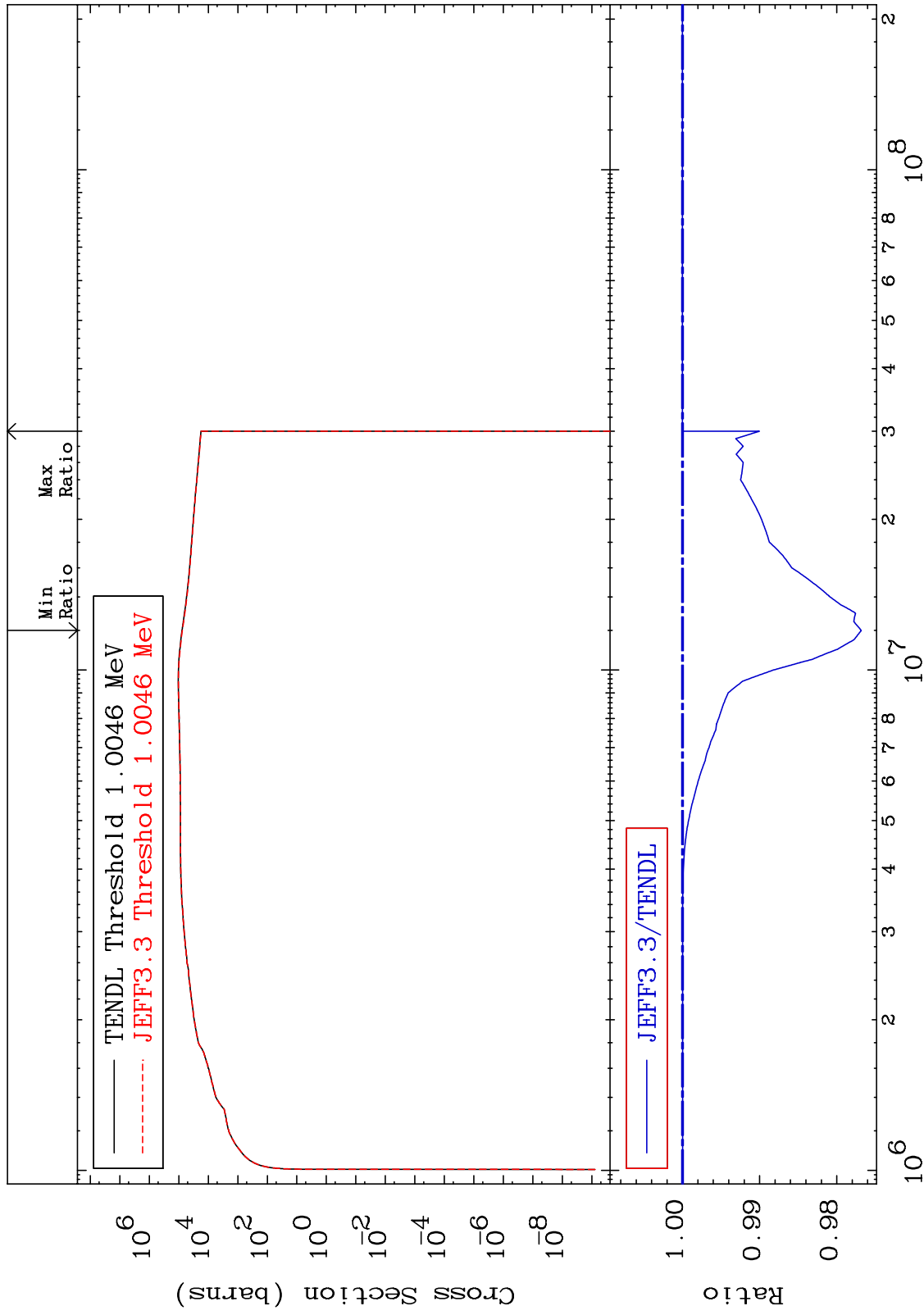
MAT 1931 19-K -41
 Dpa elastic (mt2) -99.92 To 3363. %
 Cross Section



MAT 1931

Dpa inelastic (mt51-91)
Cross Section

19-K -41
-2.318 To 0.000 %



77

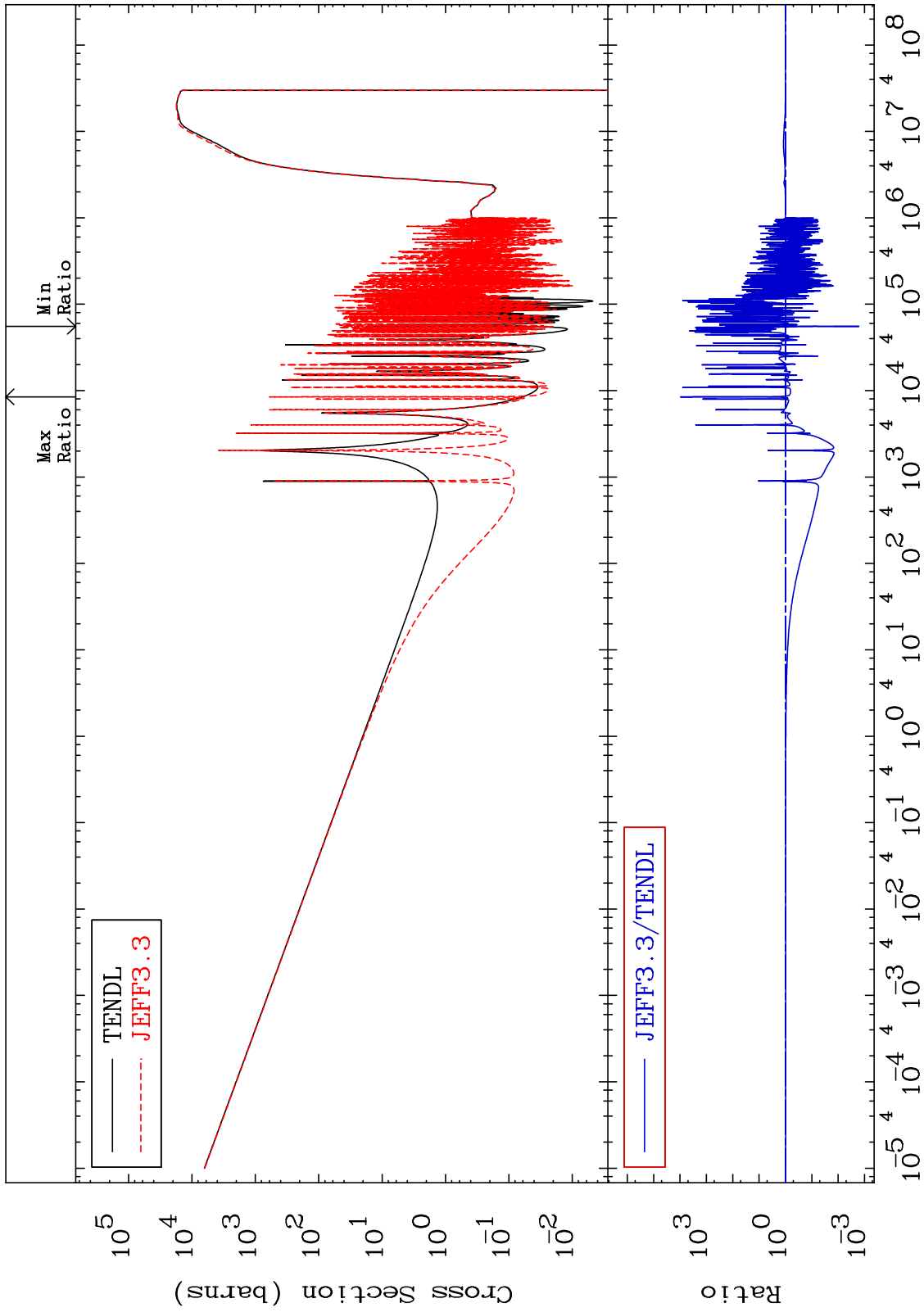
Incident Energy (eV)

19-K -41

MAT 1931

Dpa disappearance (mt102 -120)
Cross Section

19-K -41
-99.84 To 9999. %



78

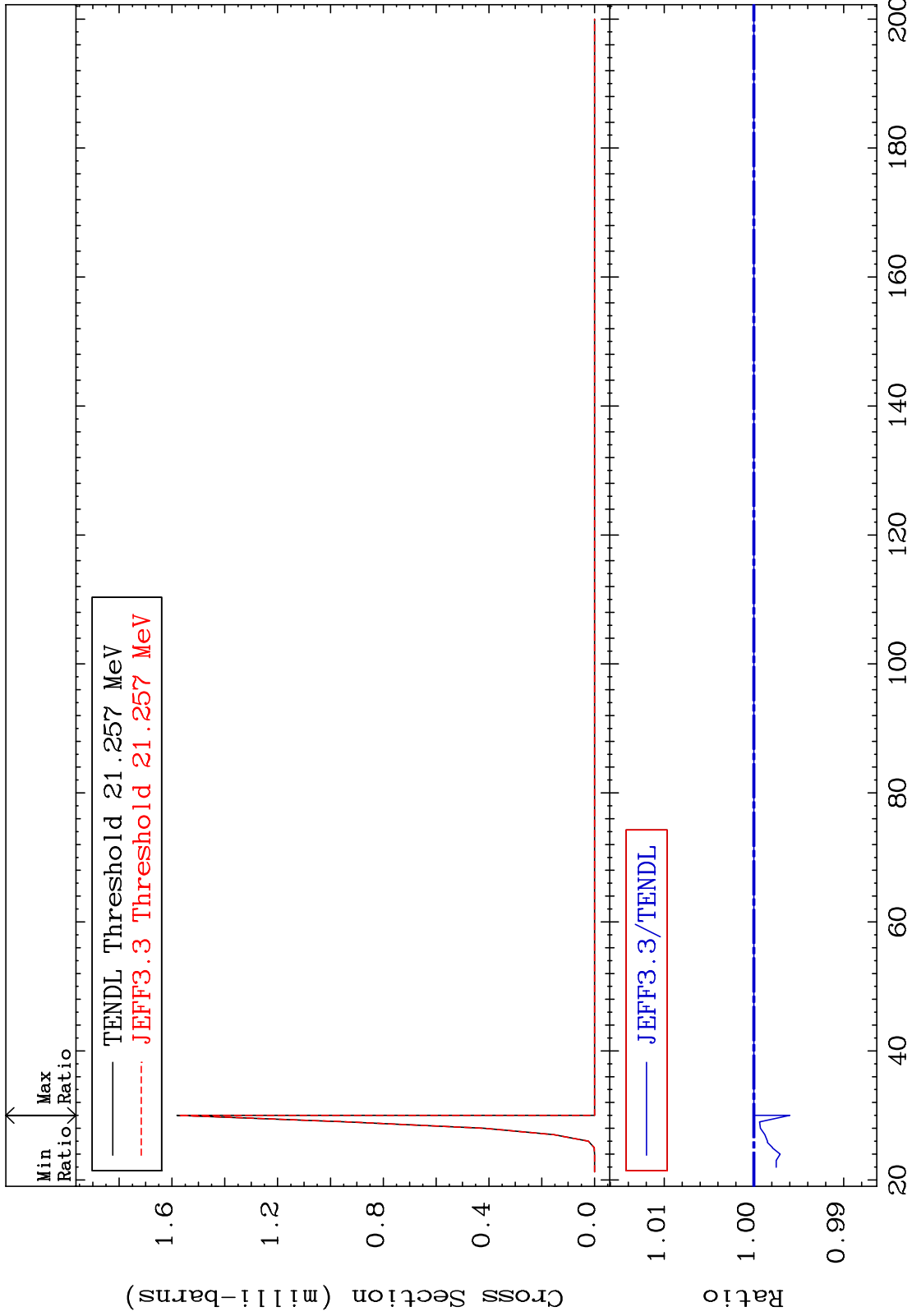
Incident Energy (eV)

19-K -41

MAT 1931

(n,n') He-3:17-Cl-38g
Radionuclide Production Cross Section -0.400 To 0.000 %

19-K -41



79

Incident Energy (MeV)

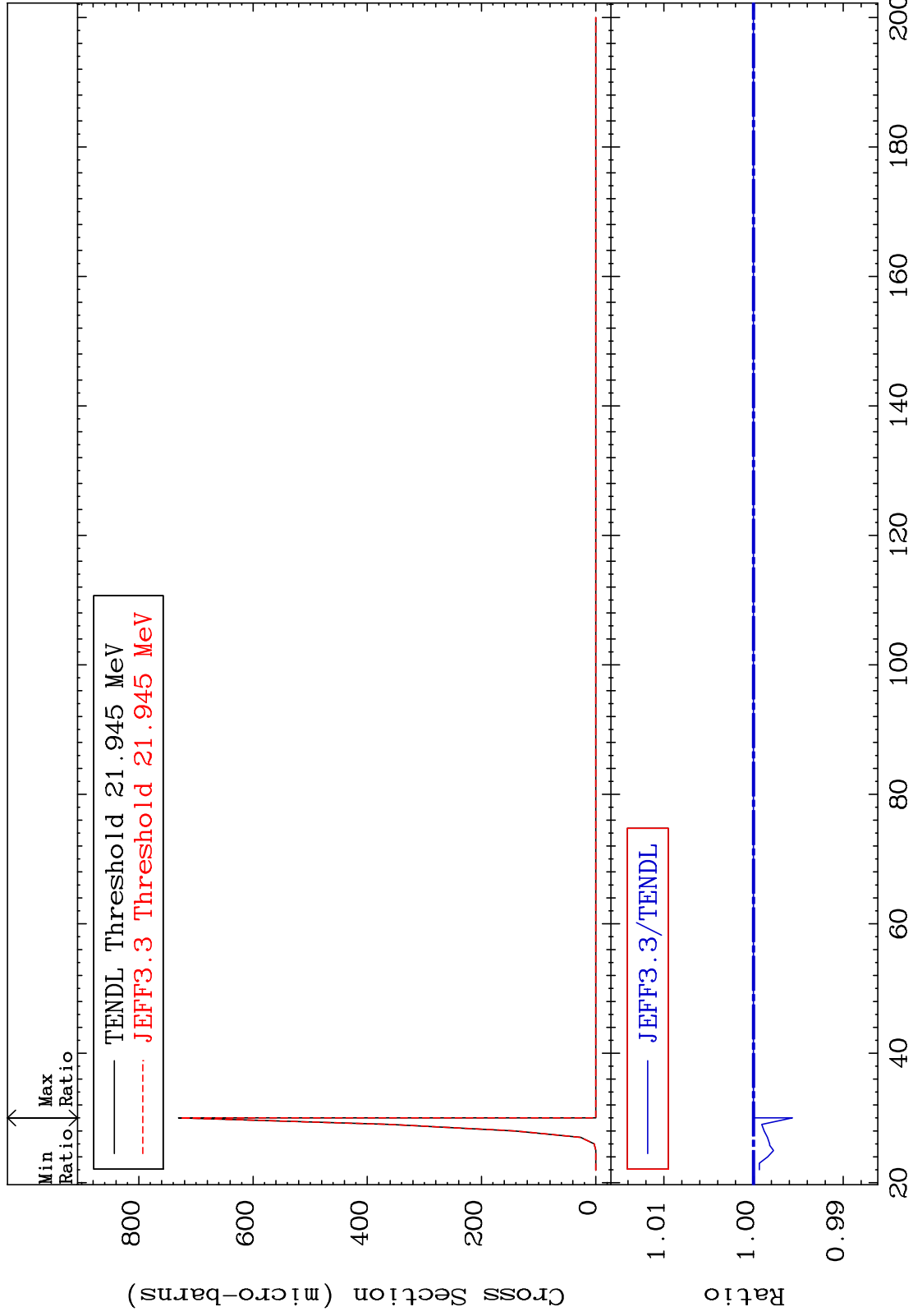
19-K -41

MAT 1931

(n,n') He-3:17-Cl-38m1

19-K -41

Radionuclide Production Cross Section -0.433 To 0.000 %



80

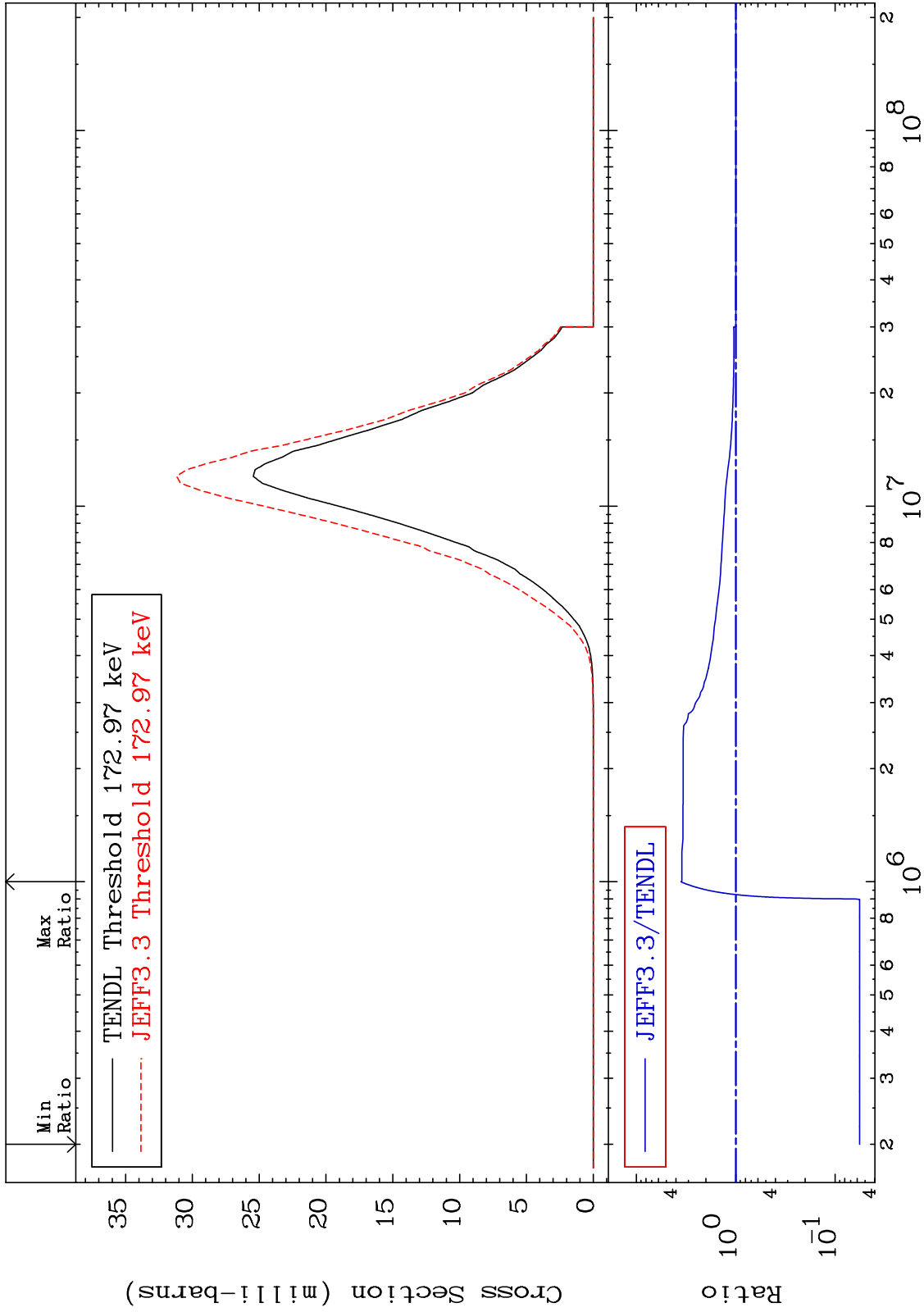
19-K -41

MAT 1931

(n, α): 17-Cl-38g

19-K -41

Radionuclide Production Cross Section -94.33 To 257.2 %

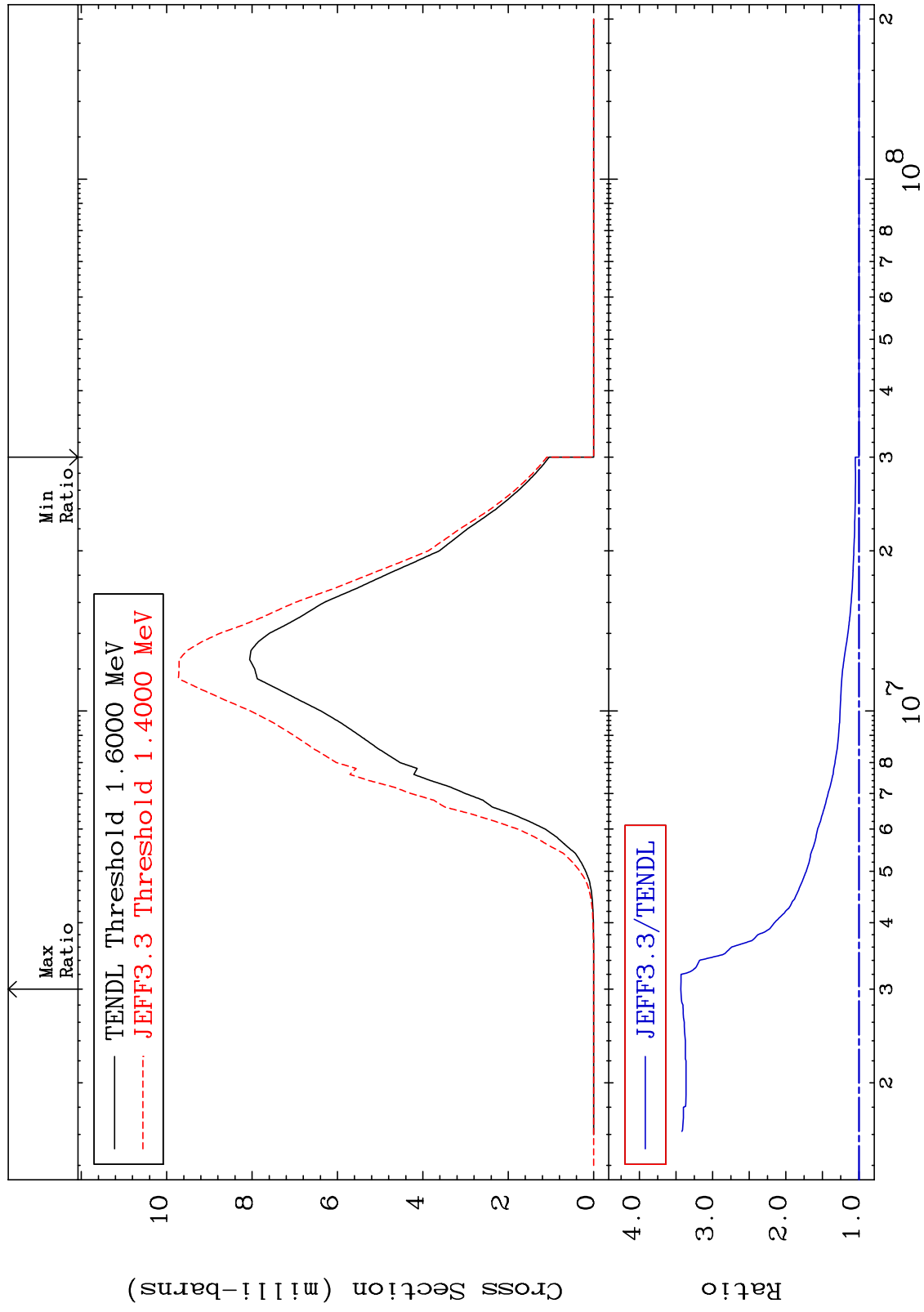


81

Incident Energy (eV)

19-K -41

MAT 1931 (n,α):17-Cl-38m1 19-K -41
 Radionuclide Production Cross Section 0.000 To 243.3 %

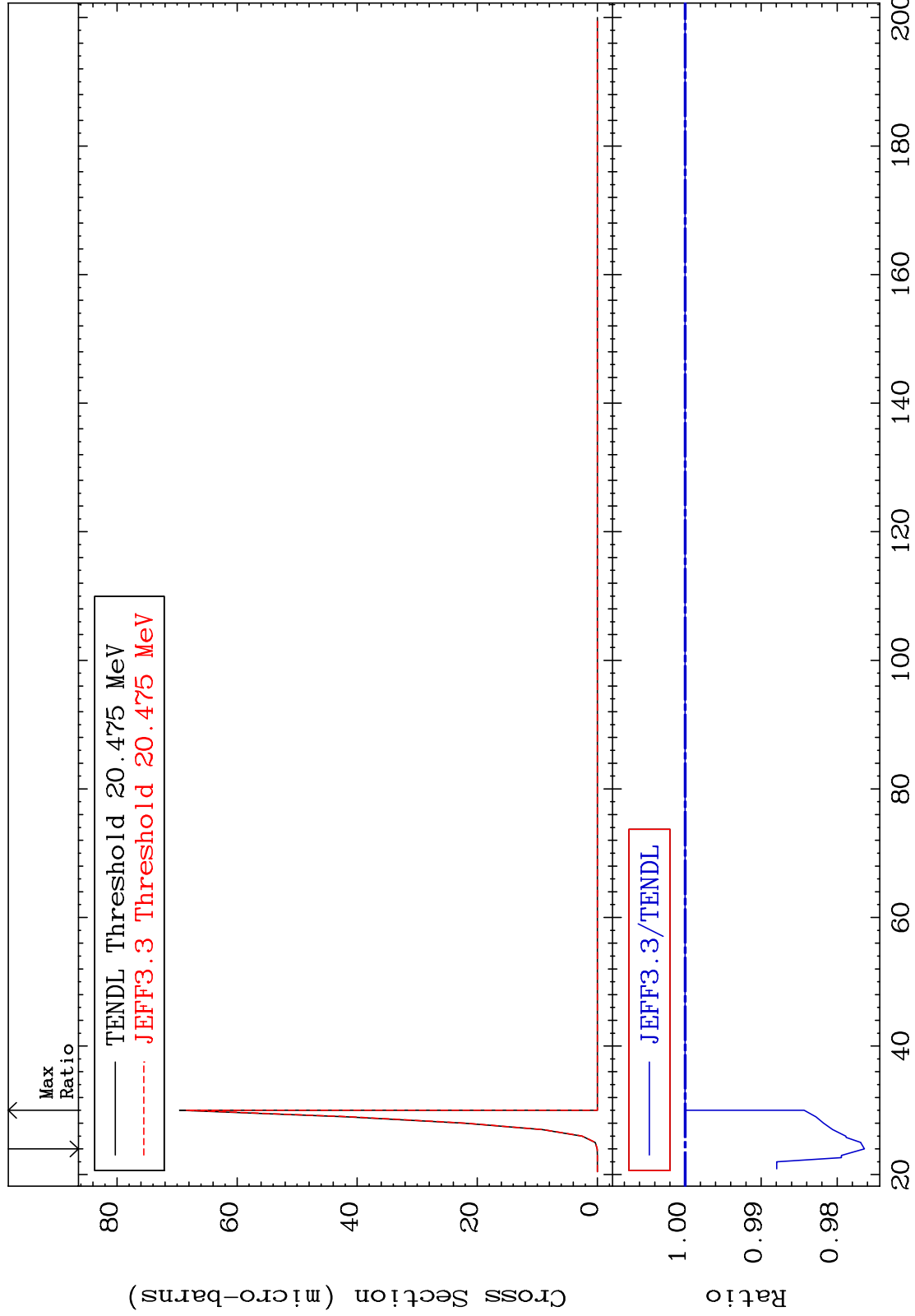


MAT 1931

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

19-K -41

Radionuclide Production Cross Section -2.359 To 0.000 %



83

Incident Energy (MeV)

19-K -41

MAT 1931

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

19-K -41

Radionuclide Production Cross Section -1.756 To 0.000 %

