

Program Complot  
(Version 2018-1)

by

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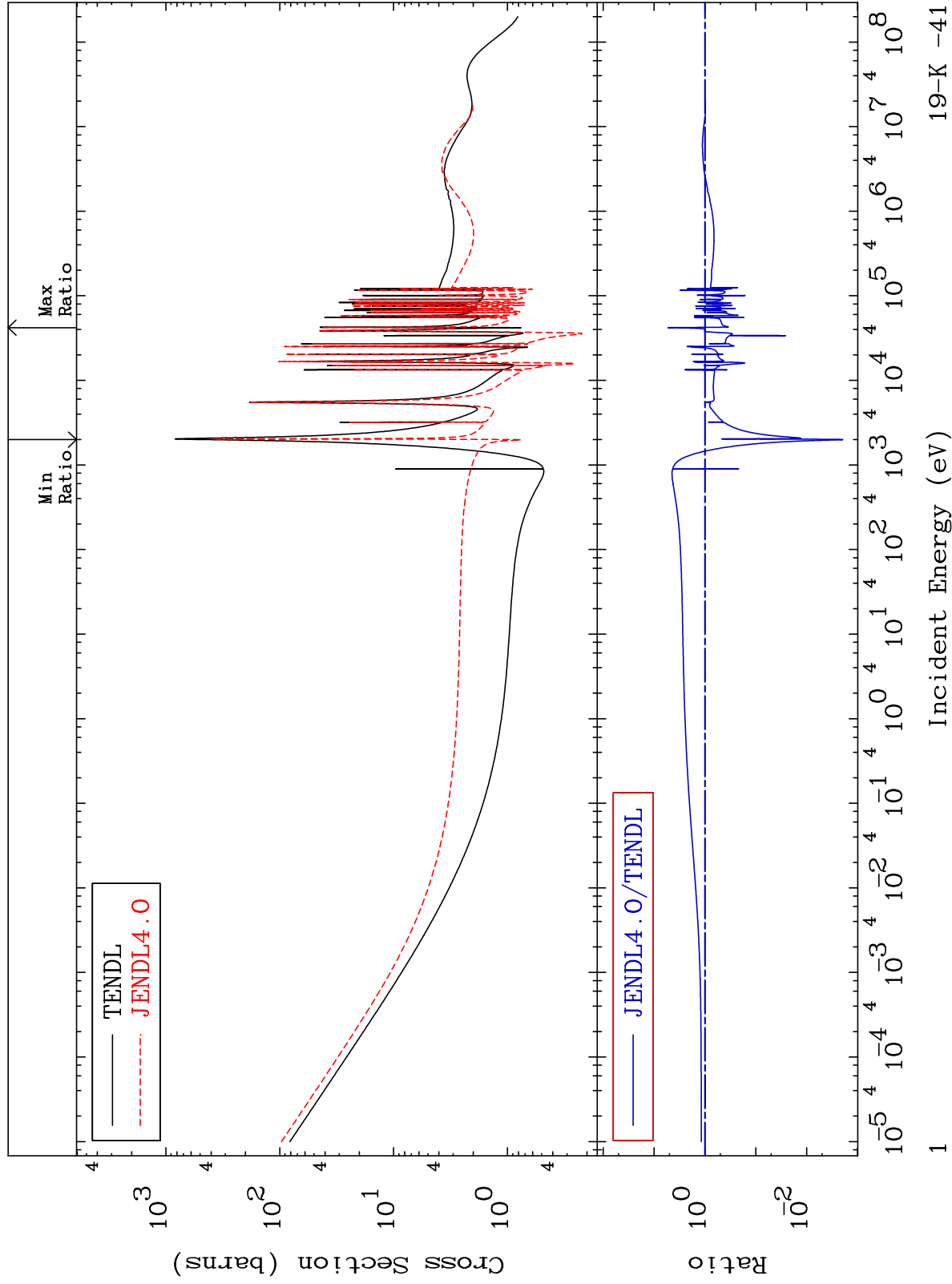
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 1931

Total  
Cross Section

19-K -41  
-99.80 To 433.2 %

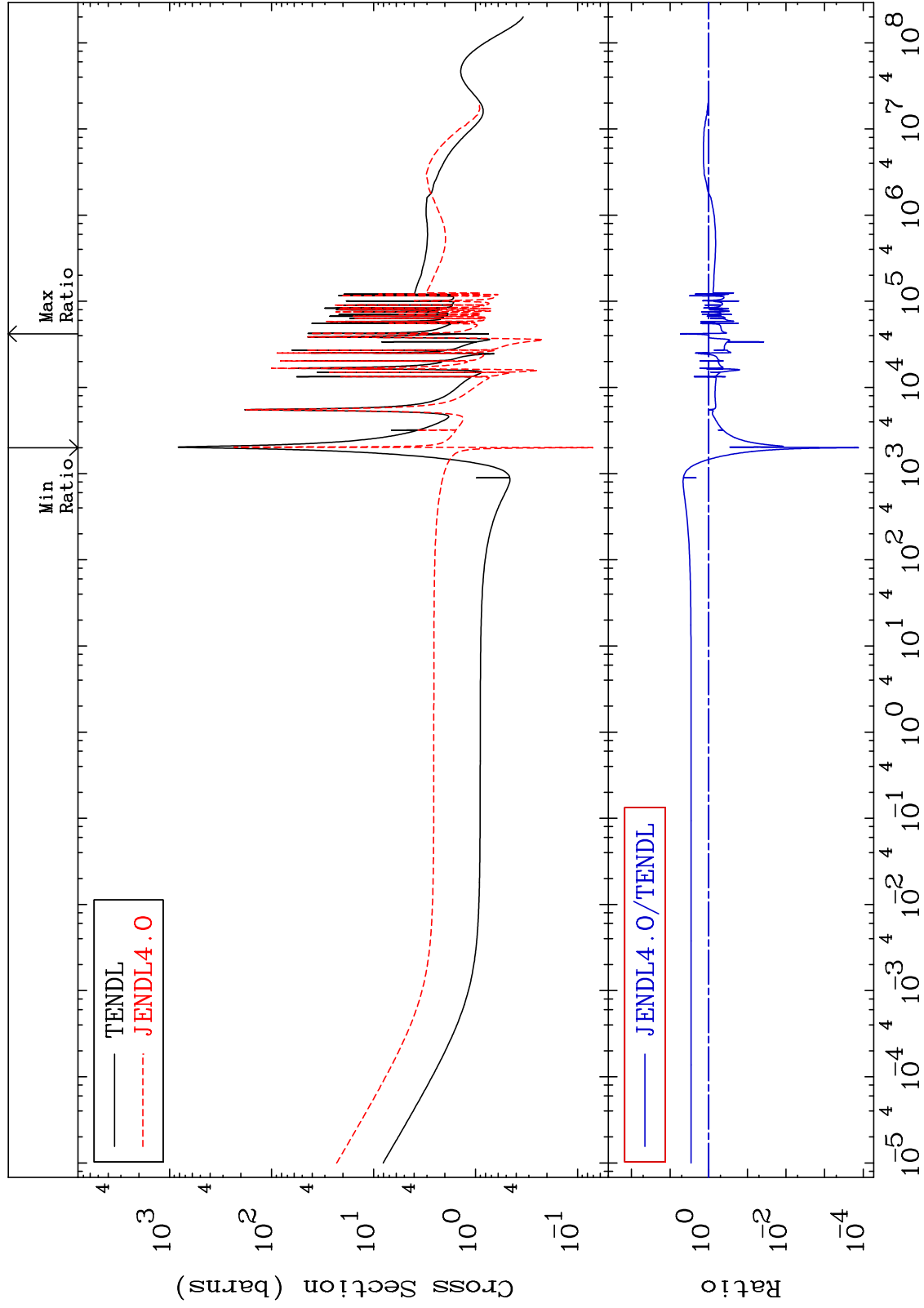


19-K -41

MAT 1931

Elastic  
Cross Section

19-K -41  
-99.99 To 439.5 %



2

Incident Energy (eV)

19-K -41



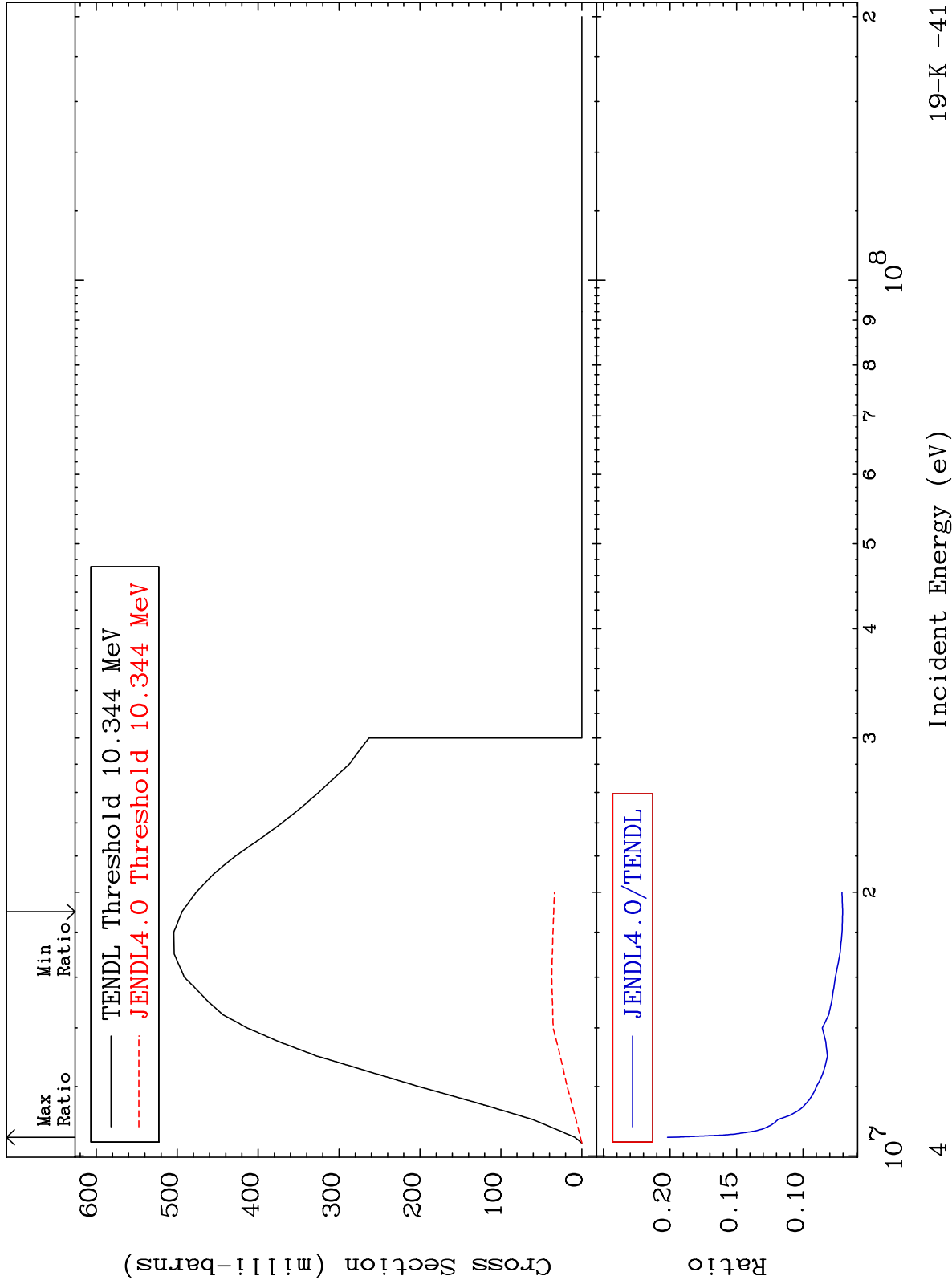
MAT 1931

(n,2n)

19-K -41

Cross Section

-92.98 To -79.81%



19-K -41

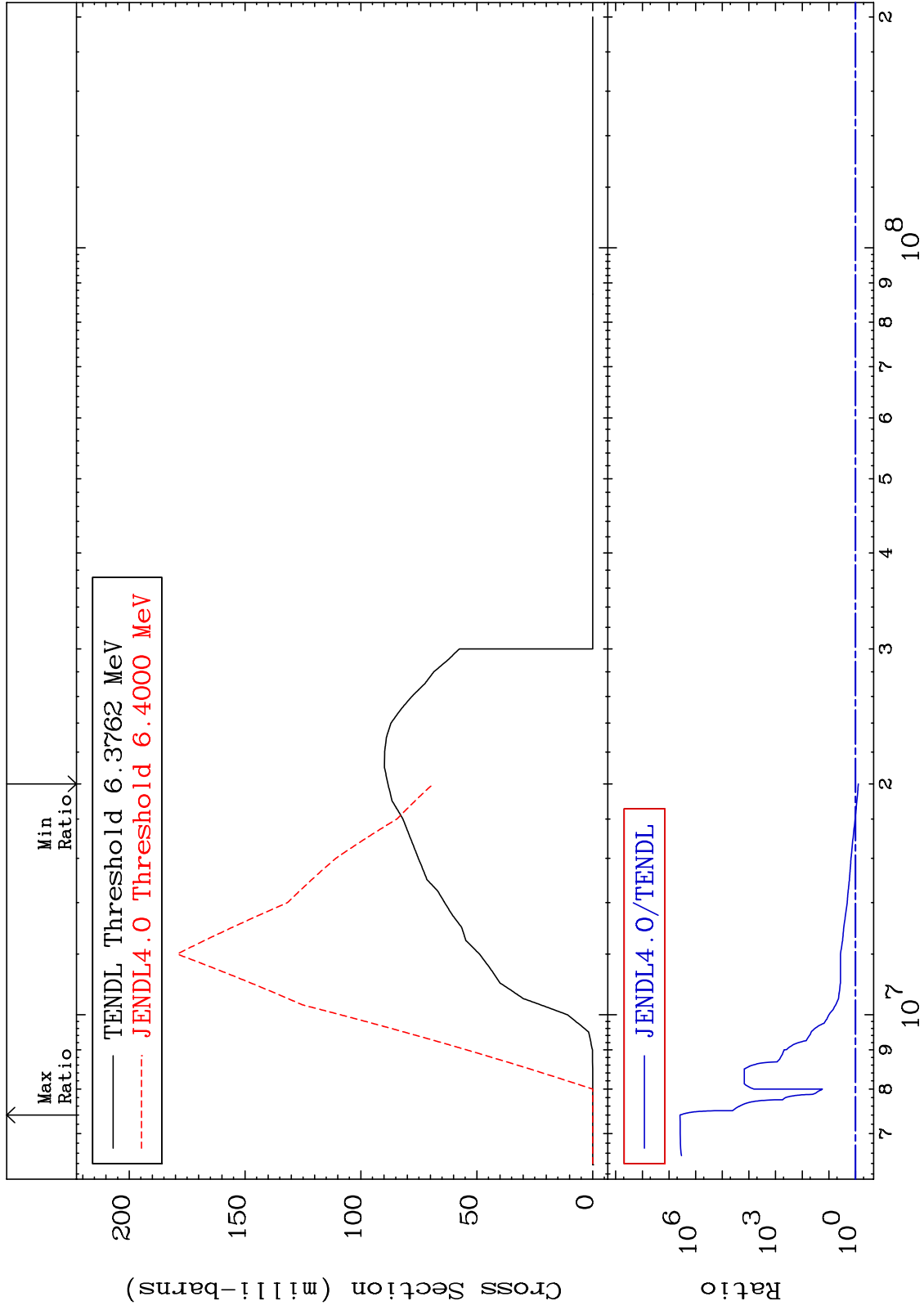
MAT 1931

(n,n')  $\alpha$

19-K -41

Cross Section

-22.09 To 9999. %



5

19-K -41

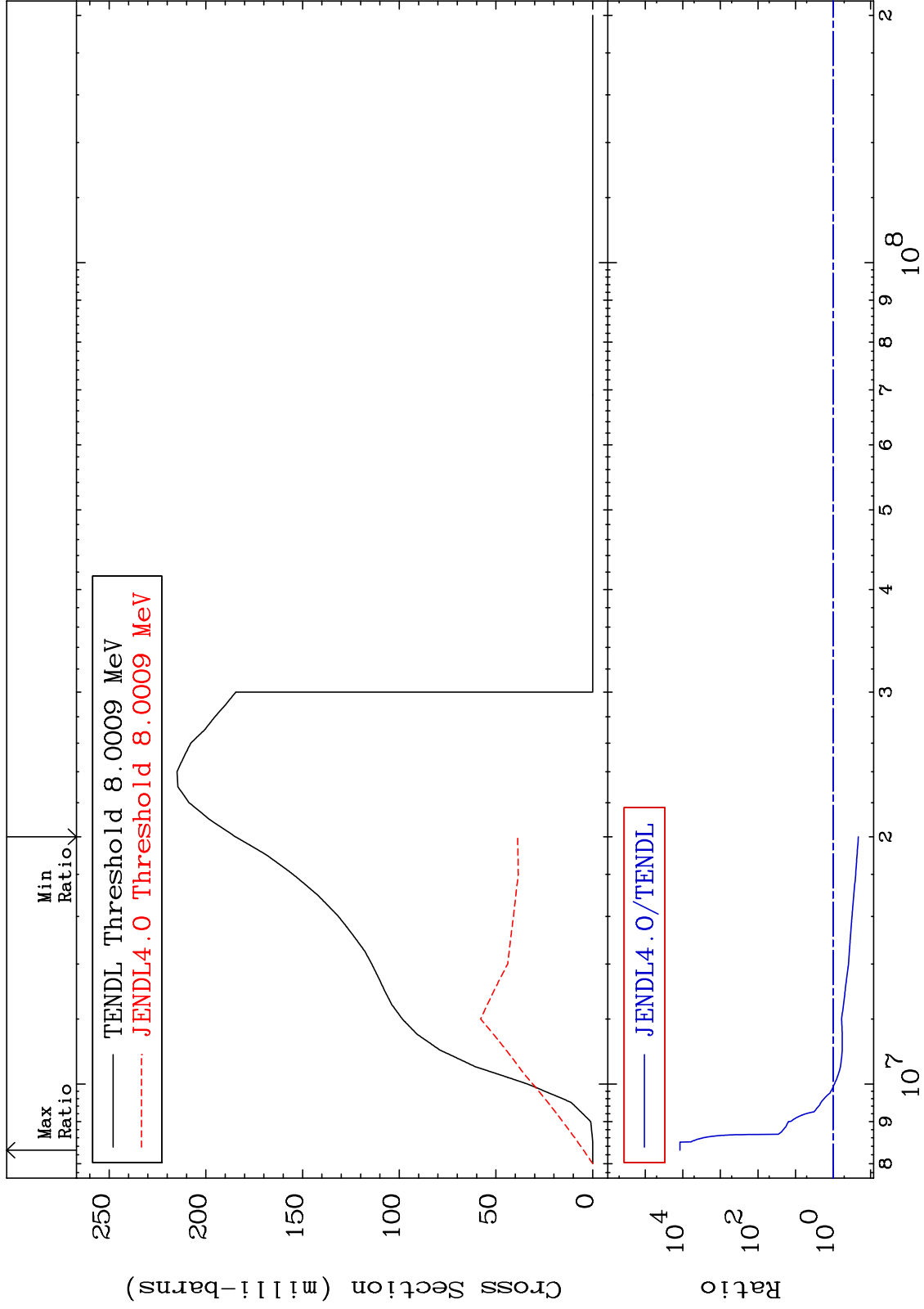
MAT 1931

(n,n') p

19-K -41

Cross Section

-79.00 To 9999. %

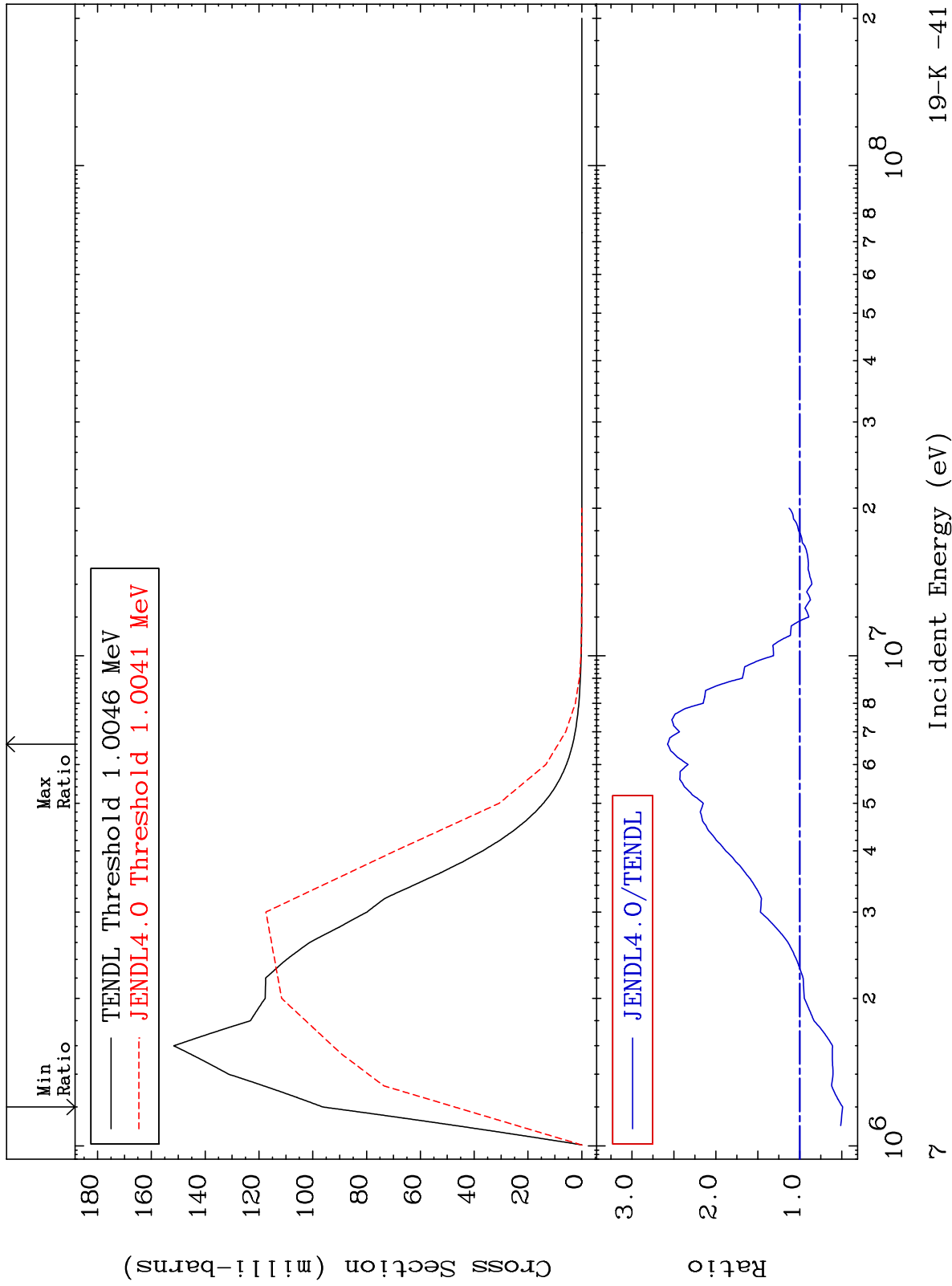


6

Incident Energy (eV)

19-K -41

MAT 1931 MT= 51 (n,n') Level  
Cross Section 19-K -41  
-50.96 To 157.5 %



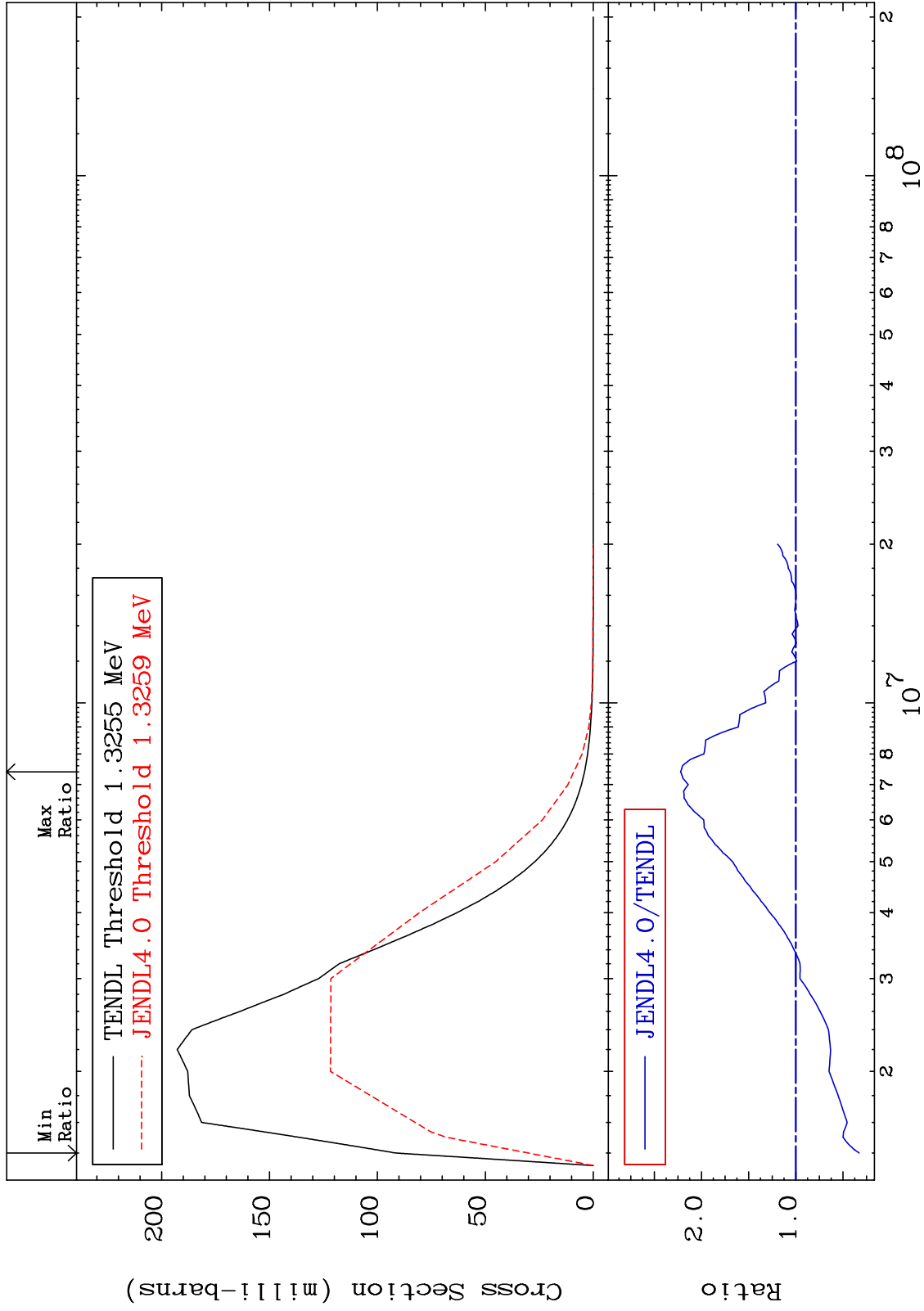
19-K -41



MAT 1931

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

19-K -41  
-67.16 To 122.2 %



8

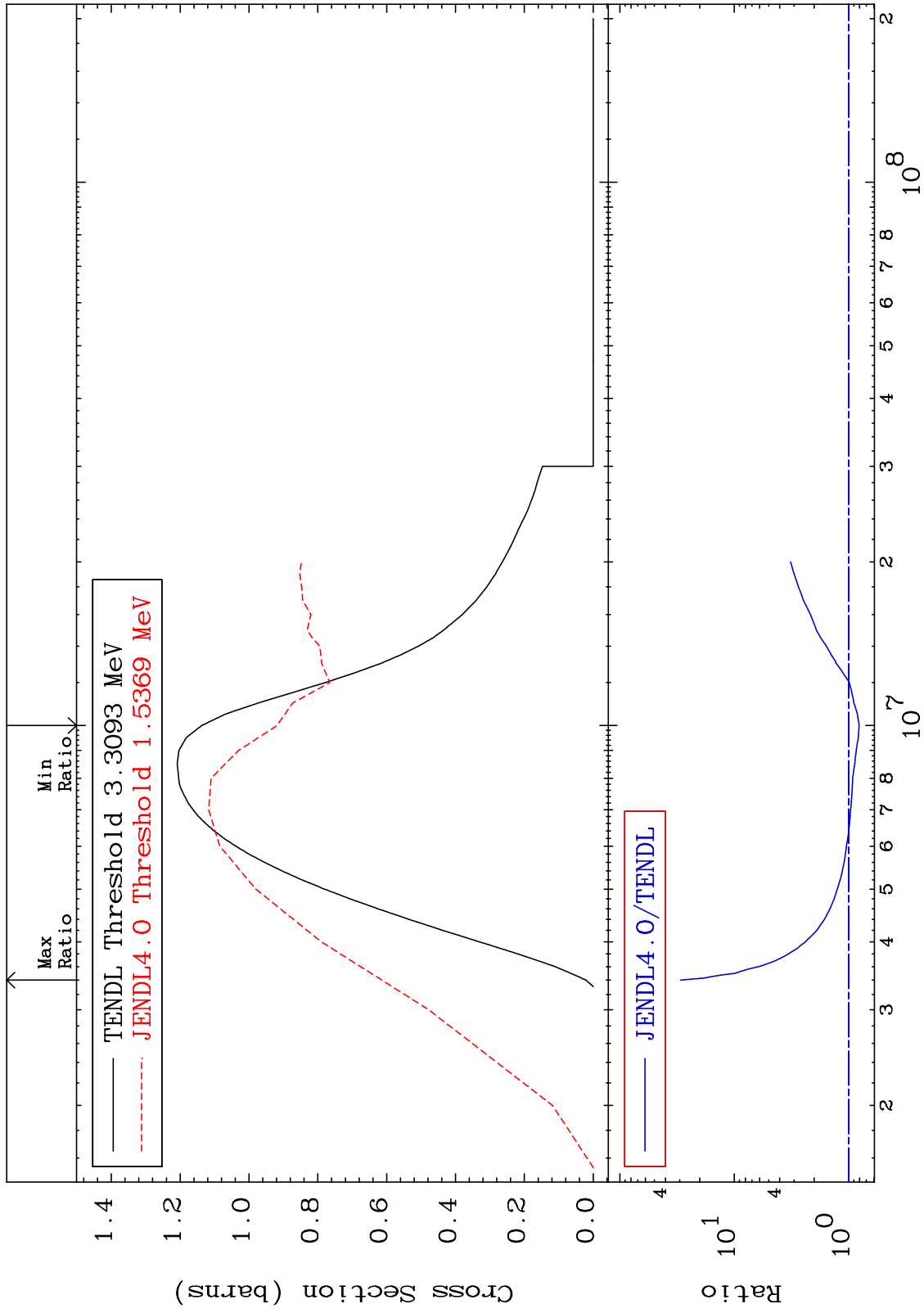
Incident Energy (eV)

19-K -41

MAT 1931

(n,n') Continuum  
Cross Section

19-K -41  
-19.25 To 2847. %



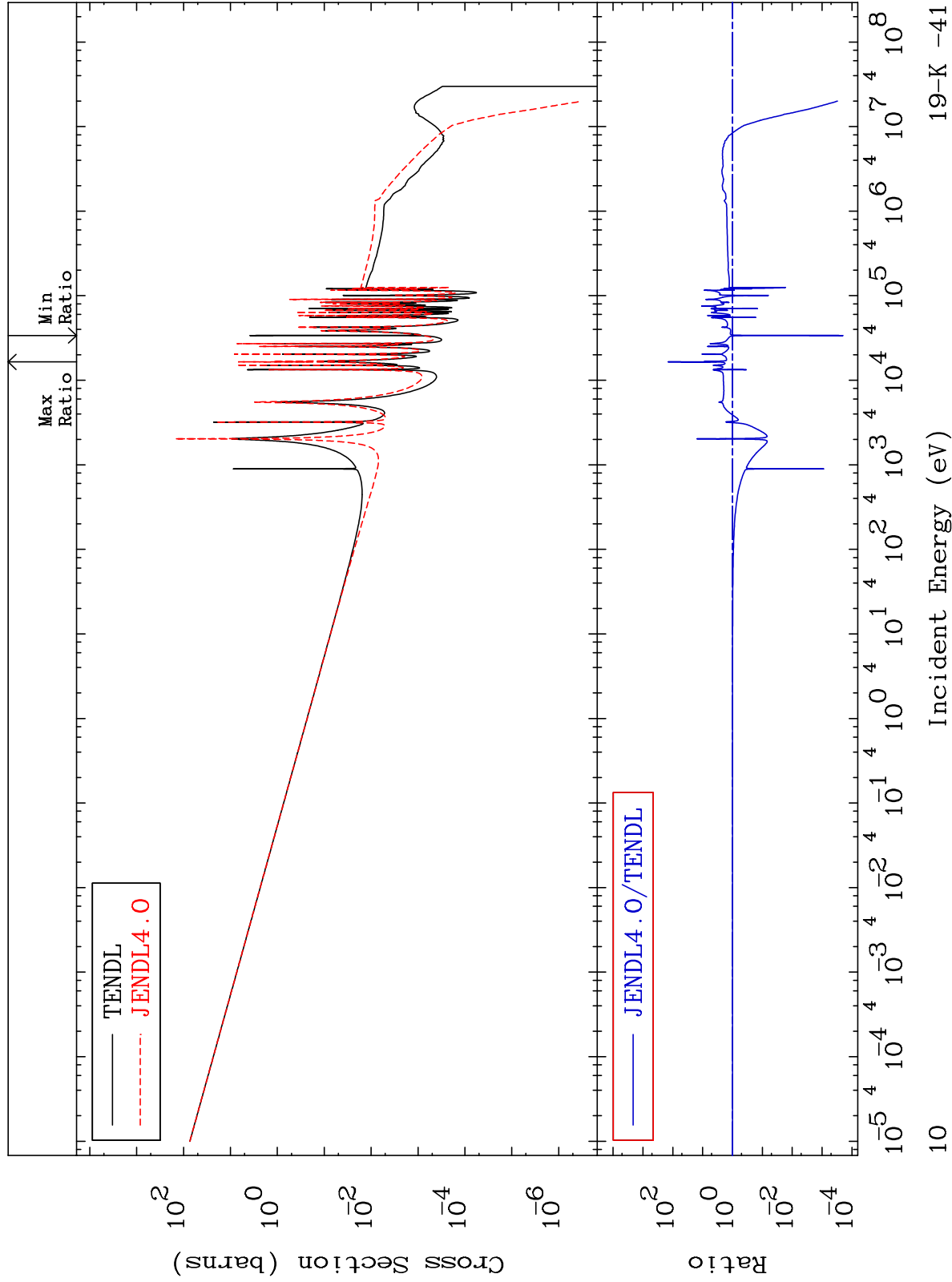
MAT 1931

(n,  $\gamma$ )

19-K -41

Cross Section

-99.98 To 9999. %



19-K -41

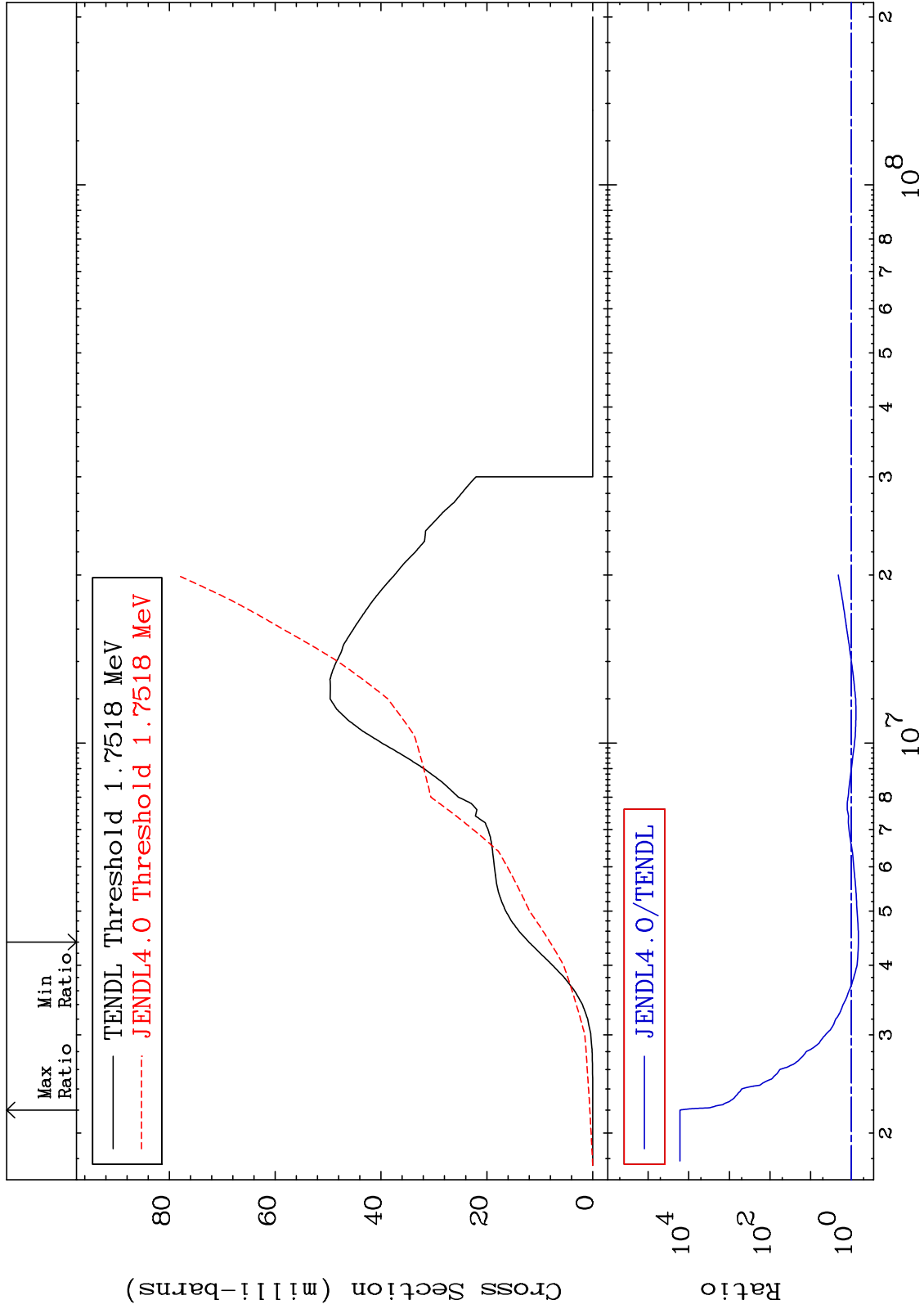
MAT 1931

(n,p)

19-K -41

Cross Section

-33.12 To 9999. %



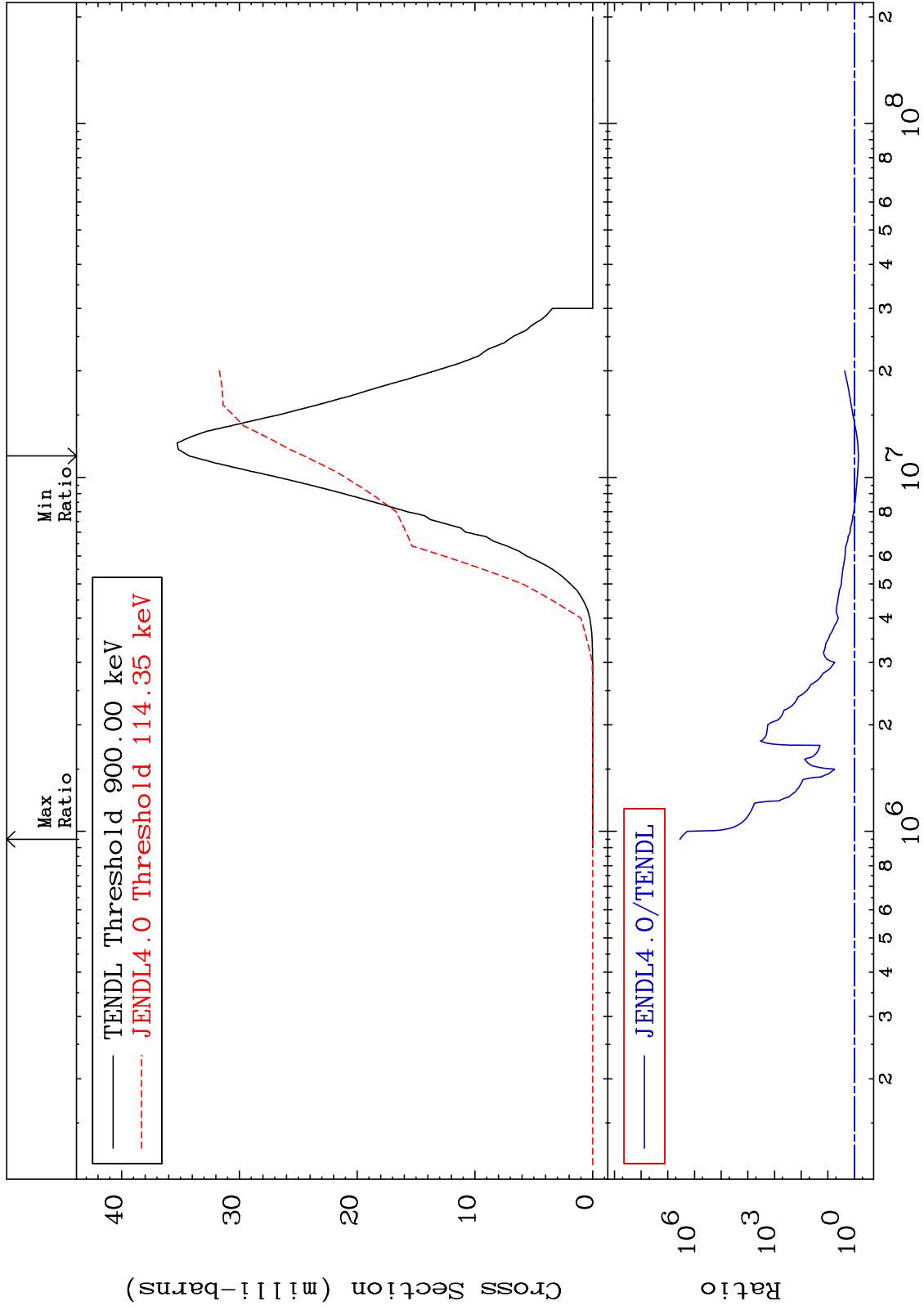
MAT 1931

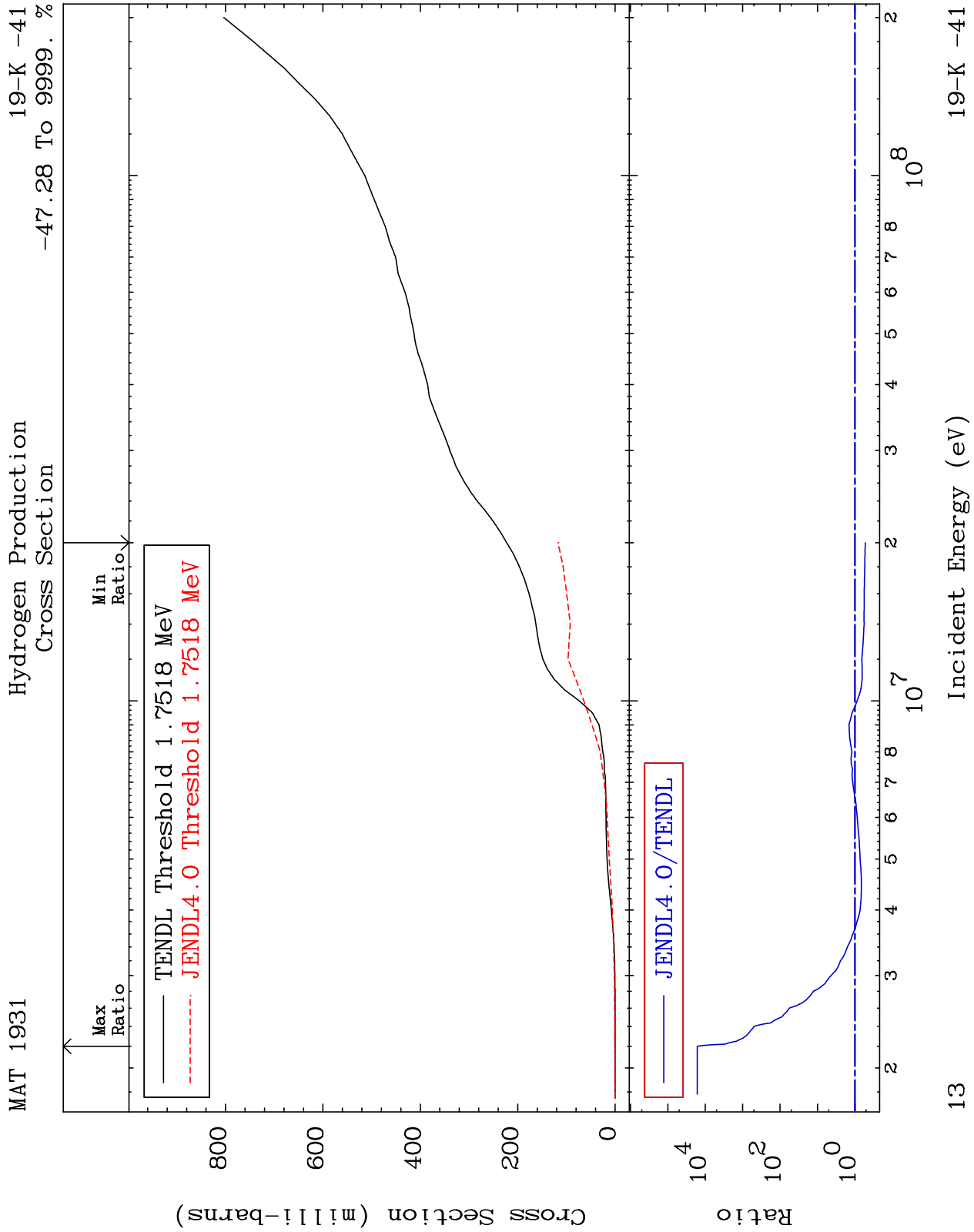
(n,  $\alpha$ )

19-K -41

Cross Section

-28.44 To 9999. %

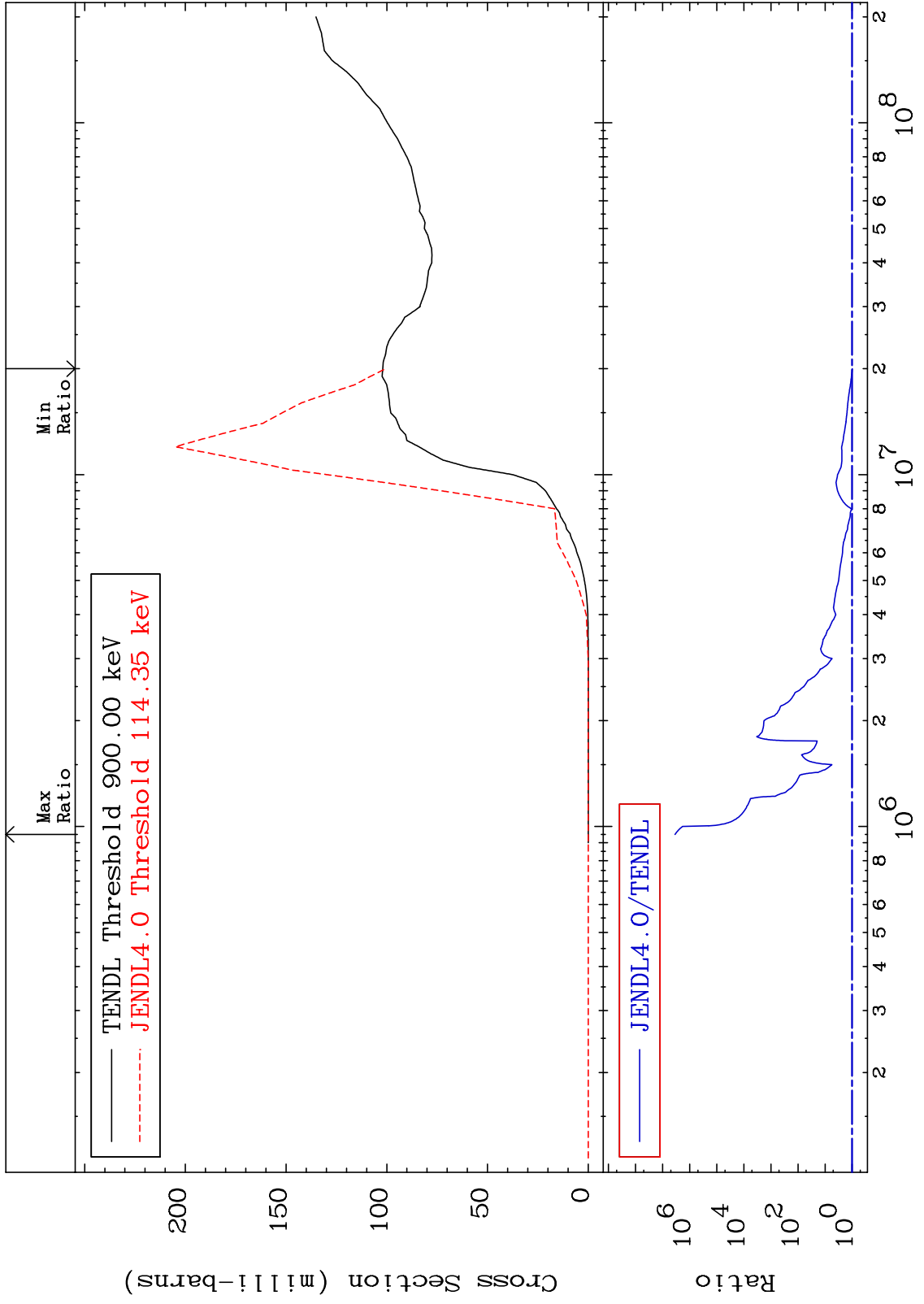




MAT 1931

He-4 Production  
Cross Section

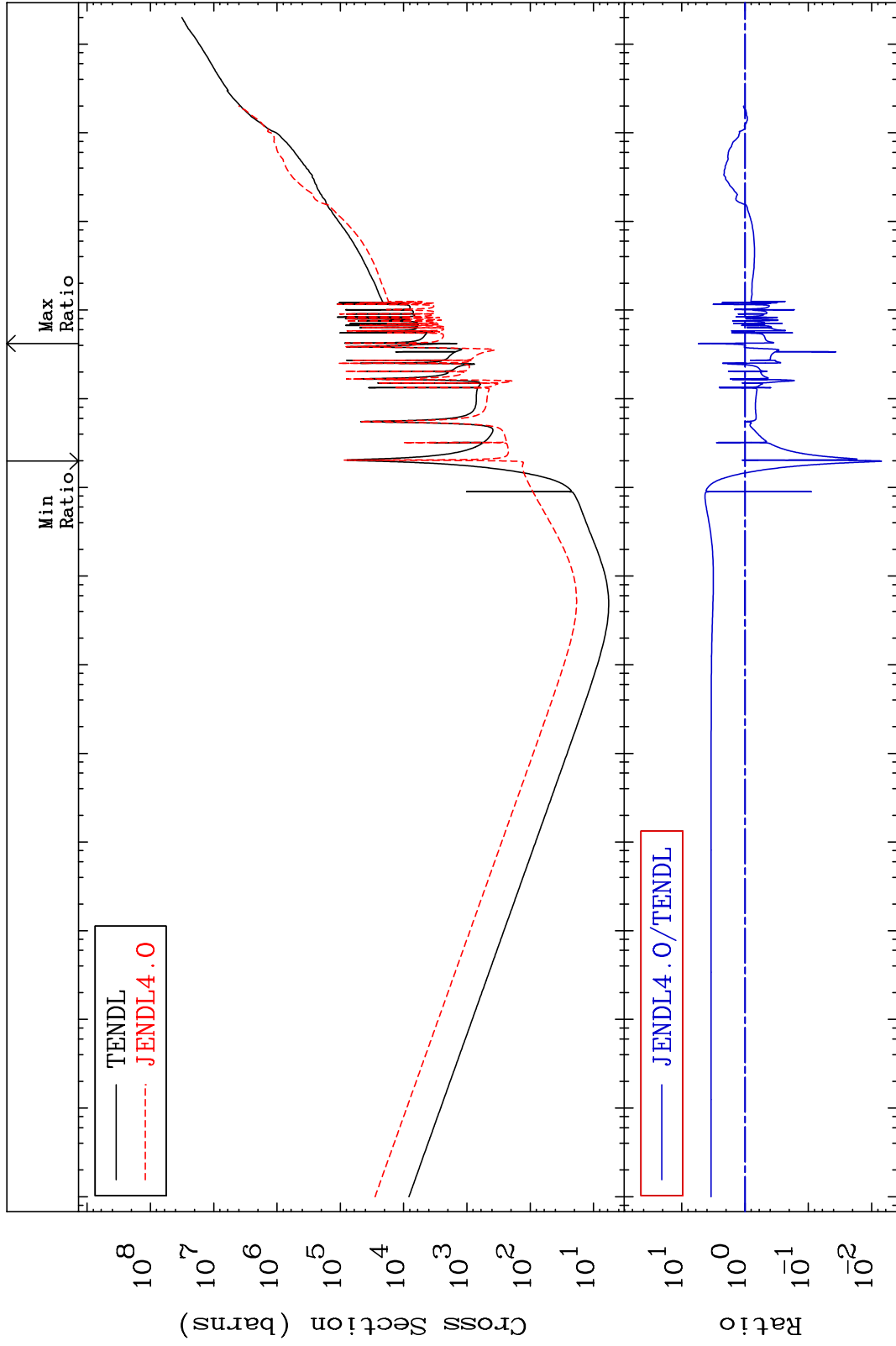
19-K -41  
-1.453 To 9999. %



MAT 1931

Kerma total (eV-barns)  
Cross Section

19-K -41  
-99.30 To 446.5 %



15

Incident Energy (eV)

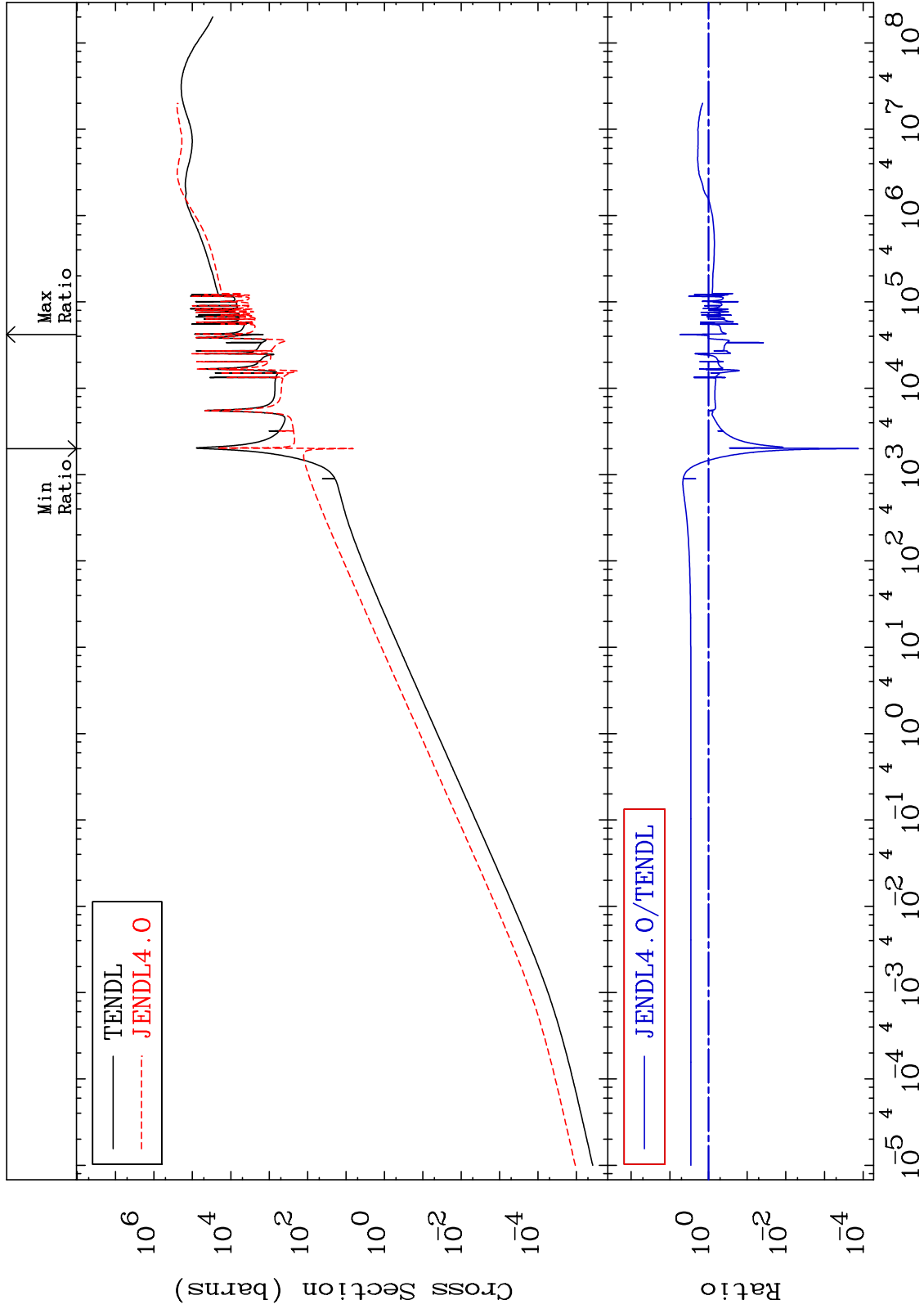
19-K -41



MAT 1931

Kerma elastic  
Cross Section

19-K -41  
-99.99 To 445.1 %



16

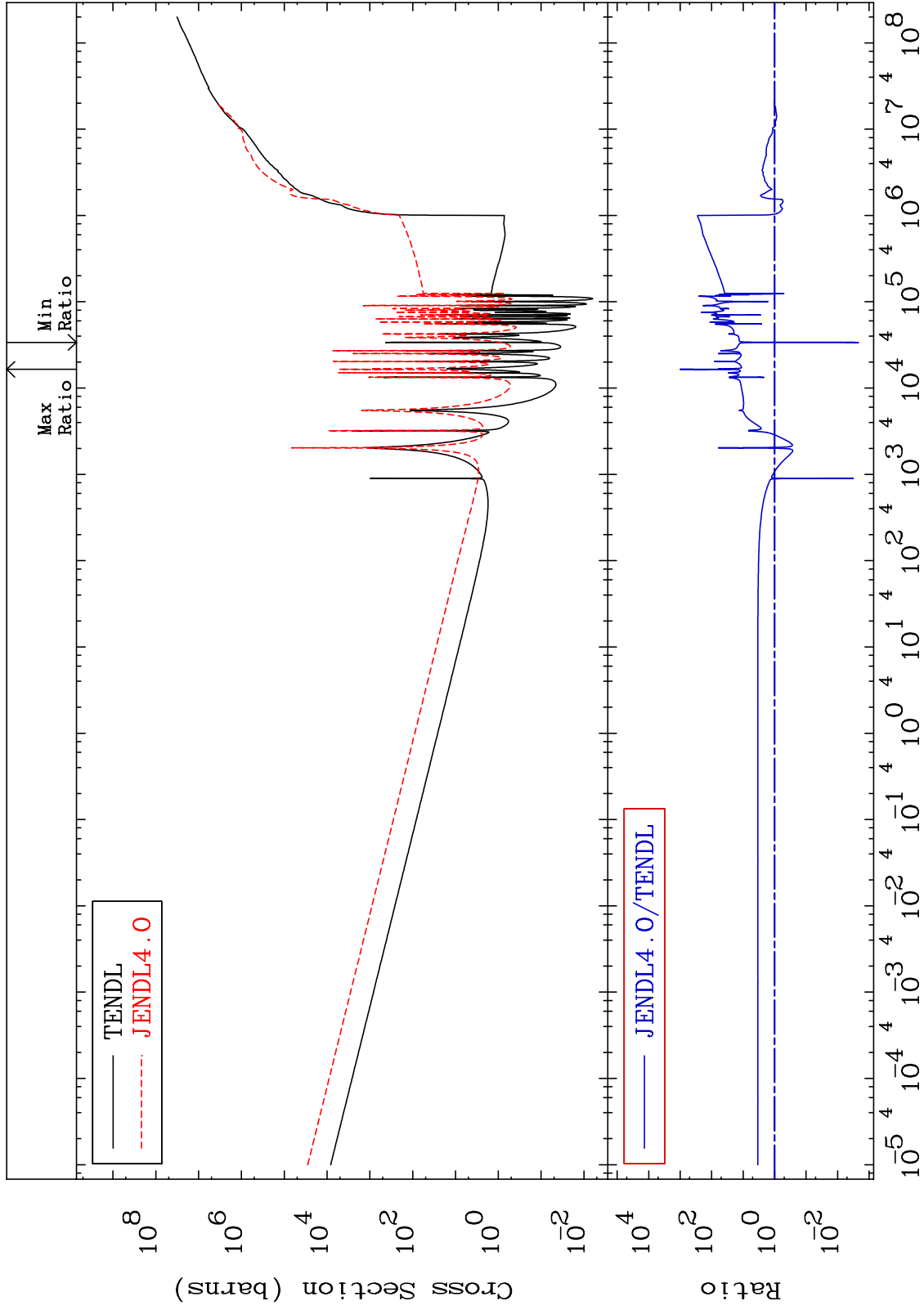
Incident Energy (eV)

19-K -41

MAT 1931

Kerma non-elastic (all but mt2)  
Cross Section

19-K -41  
-99.78 To 9999. %



17

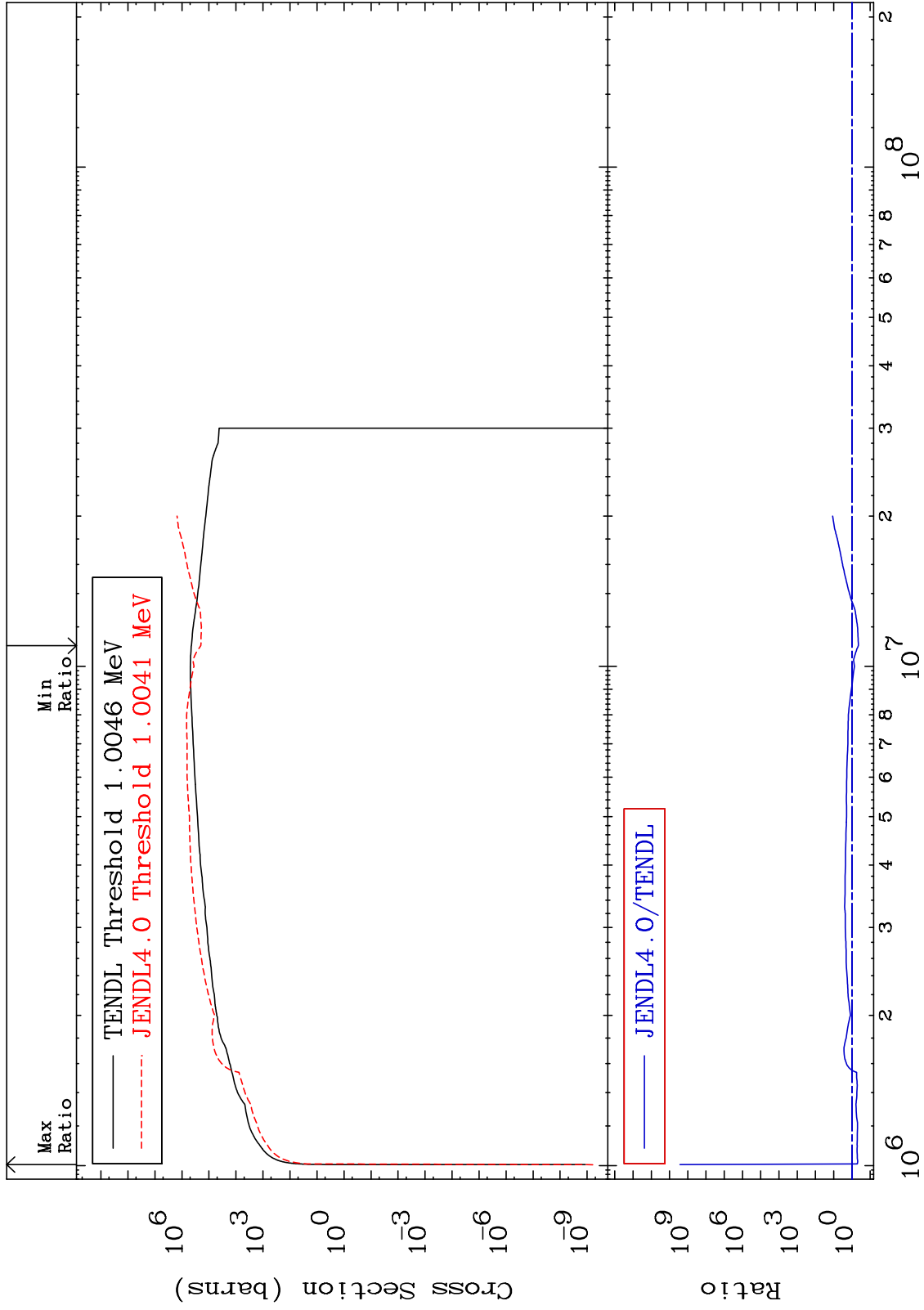
Incident Energy (eV)

19-K -41

MAT 1931

Kerma inelastic (mt51-91)  
Cross Section

19-K -41  
-55.68 To 9999. %



18

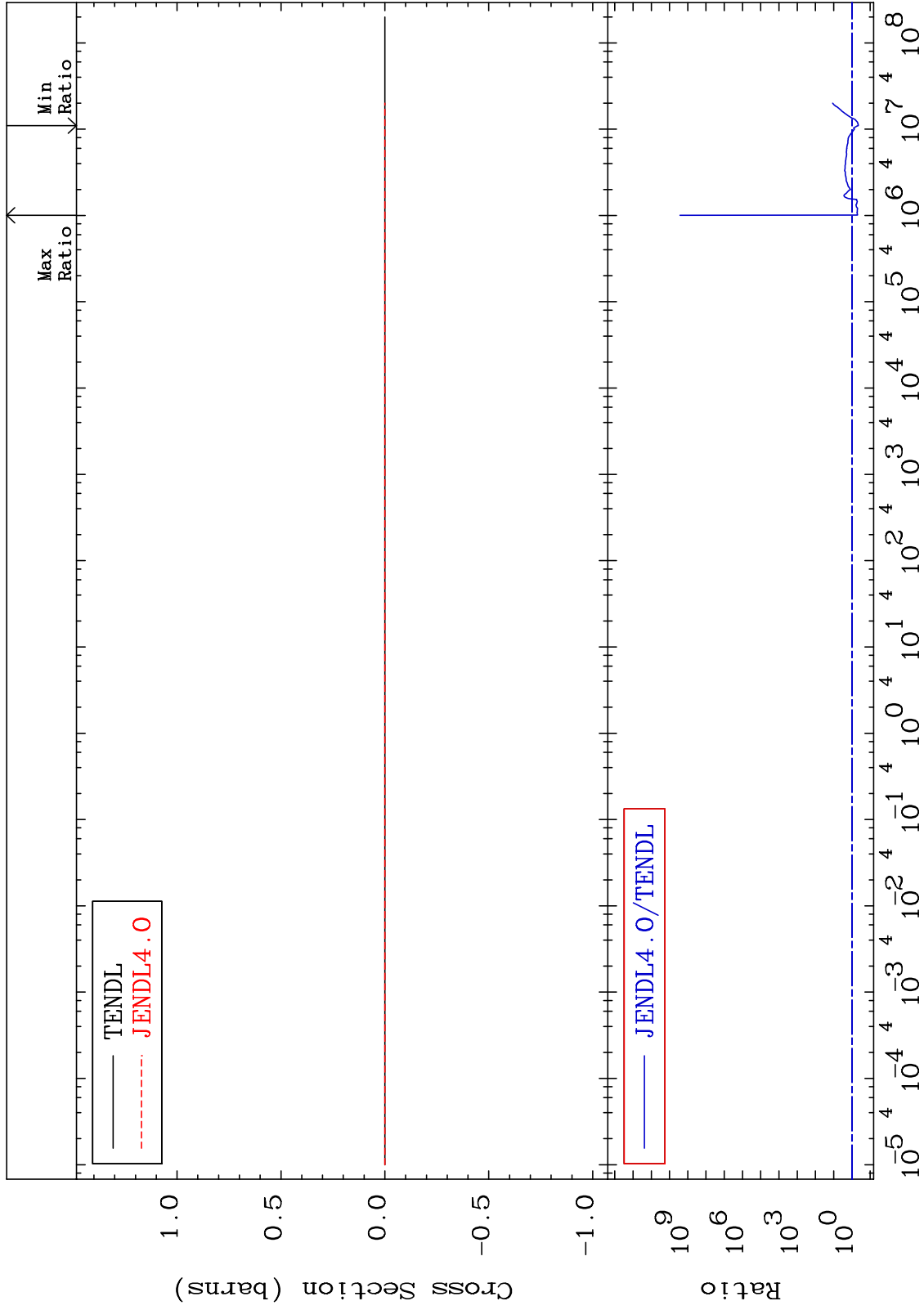
Incident Energy (eV)

19-K -41

MAT 1931

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

19-K -41  
-55.68 To 9999. %



19

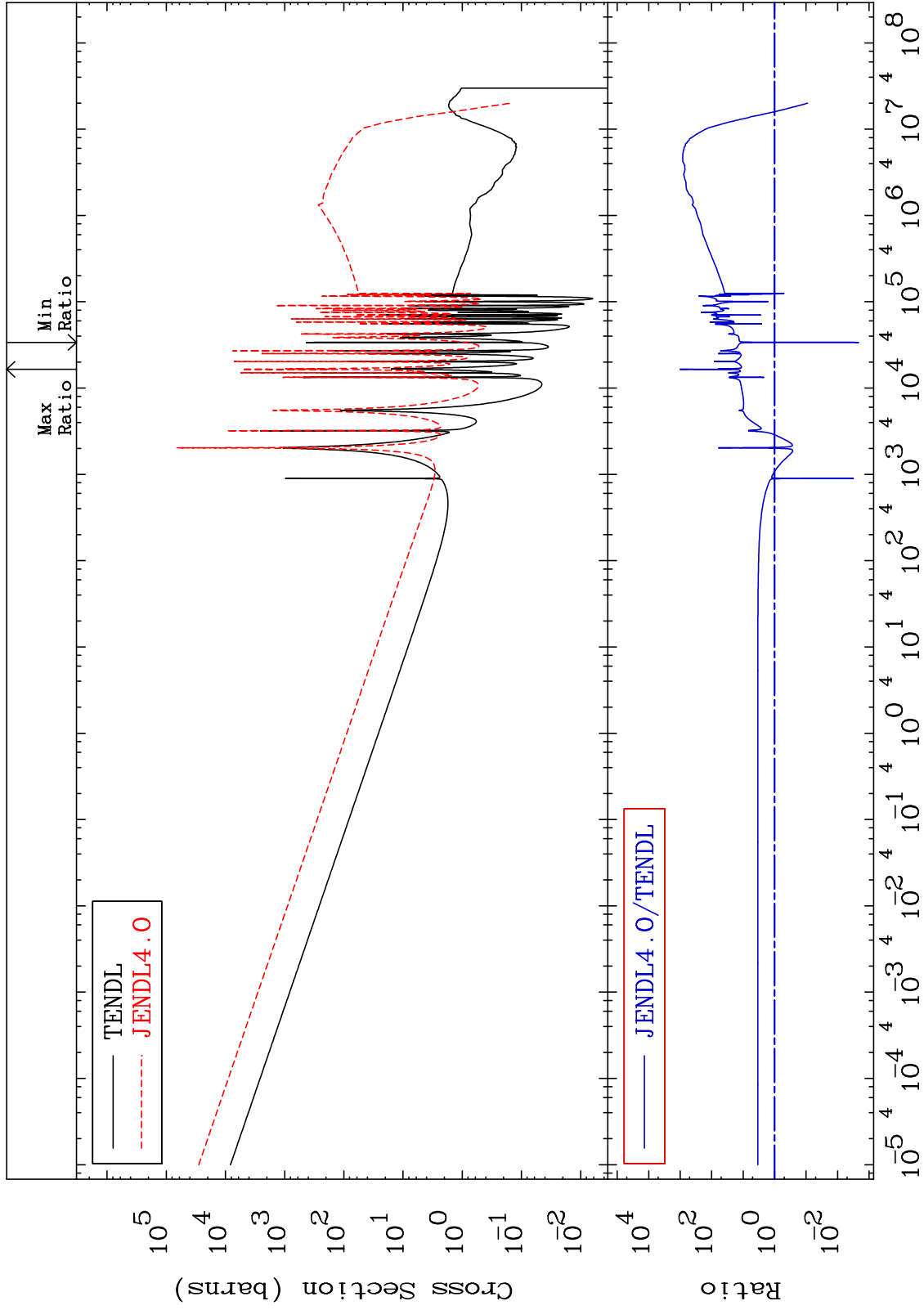
Incident Energy (eV)

19-K -41

MAT 1931

Kerma capture (mt102)  
Cross Section

19-K -41  
-99.78 To 9999. %



20

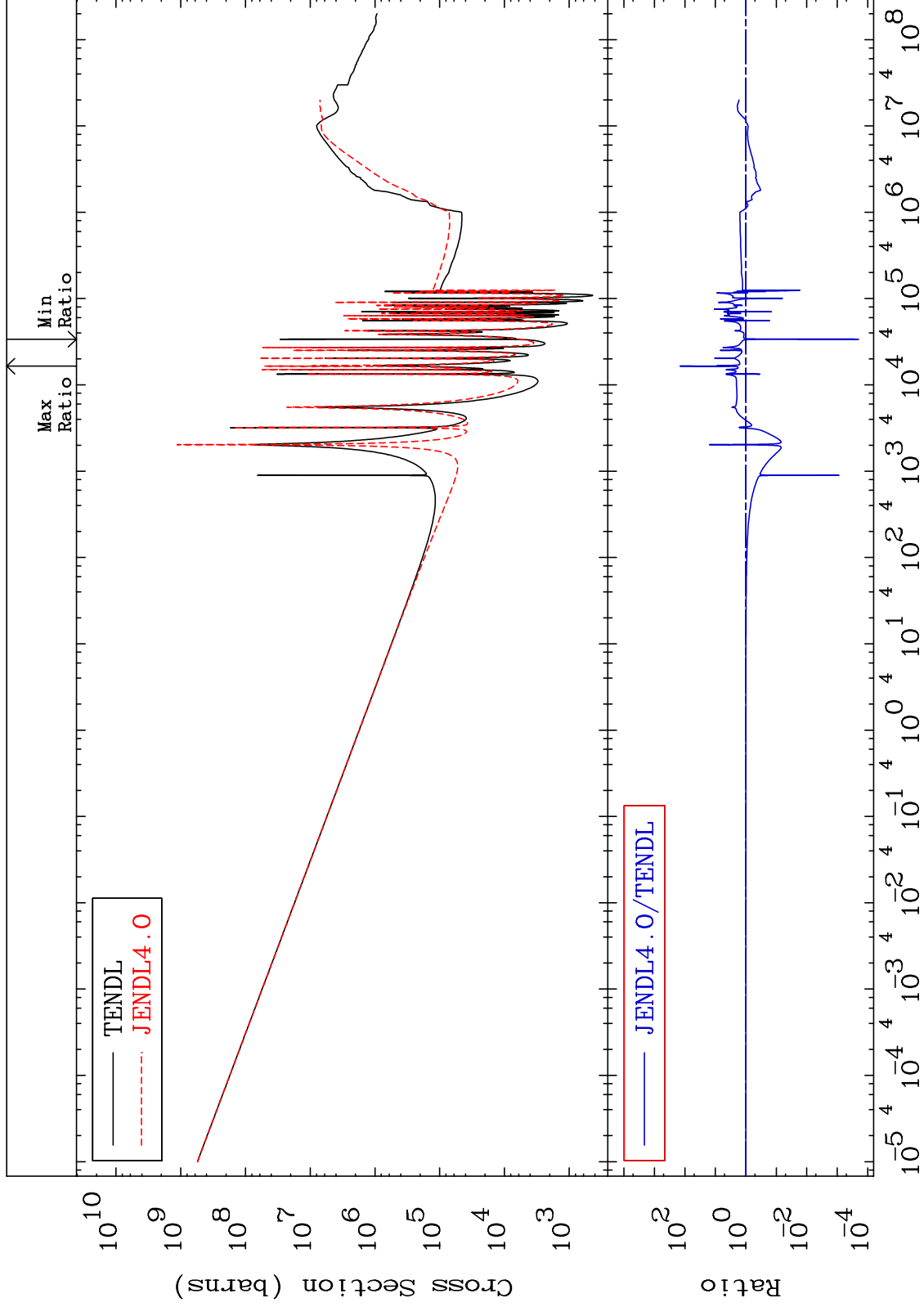
Incident Energy (eV)

19-K -41

MAT 1931

Total photon (eV-barns)  
Cross Section

19-K -41  
-99.98 To 9999. %

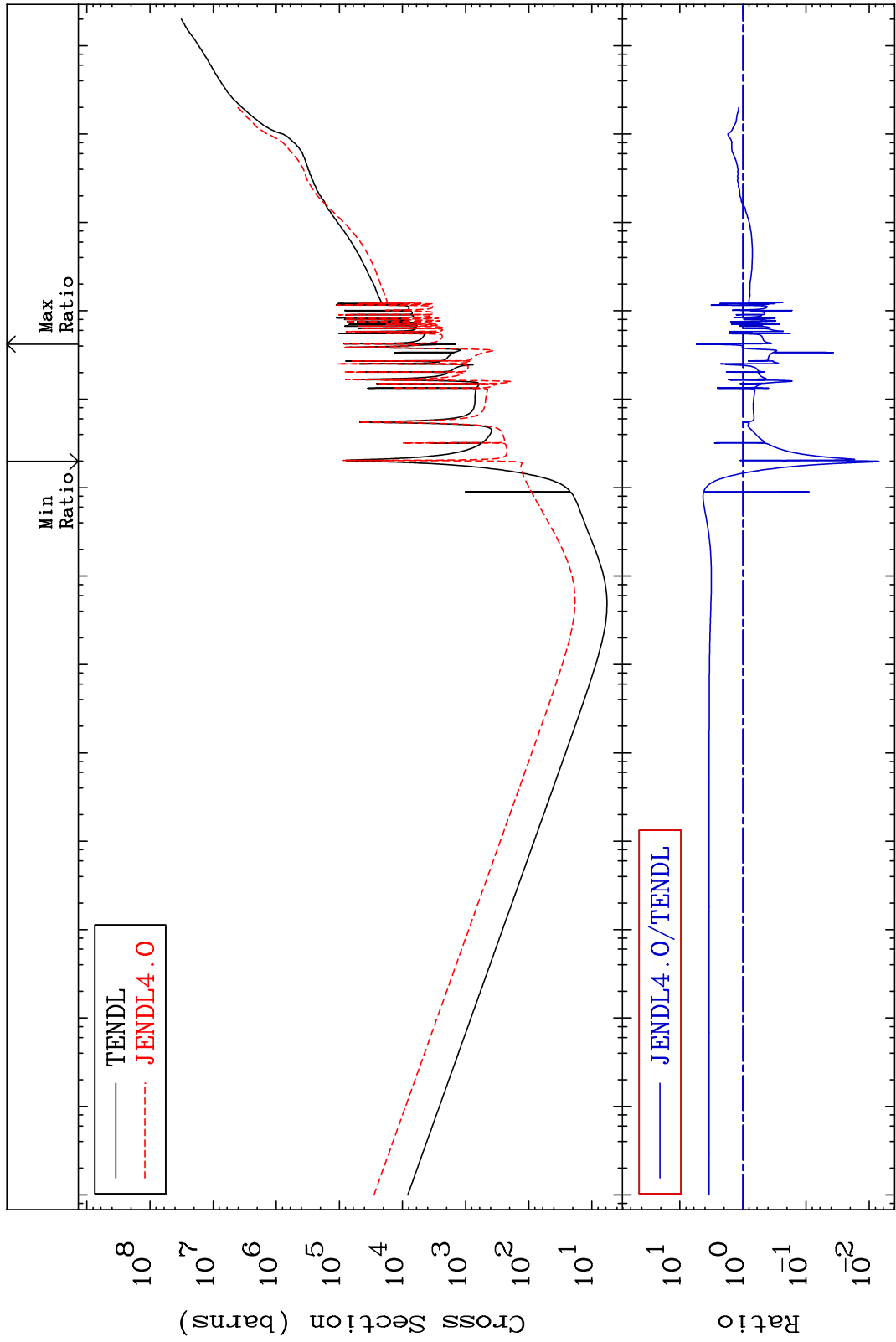


21

Incident Energy (eV)

19-K -41

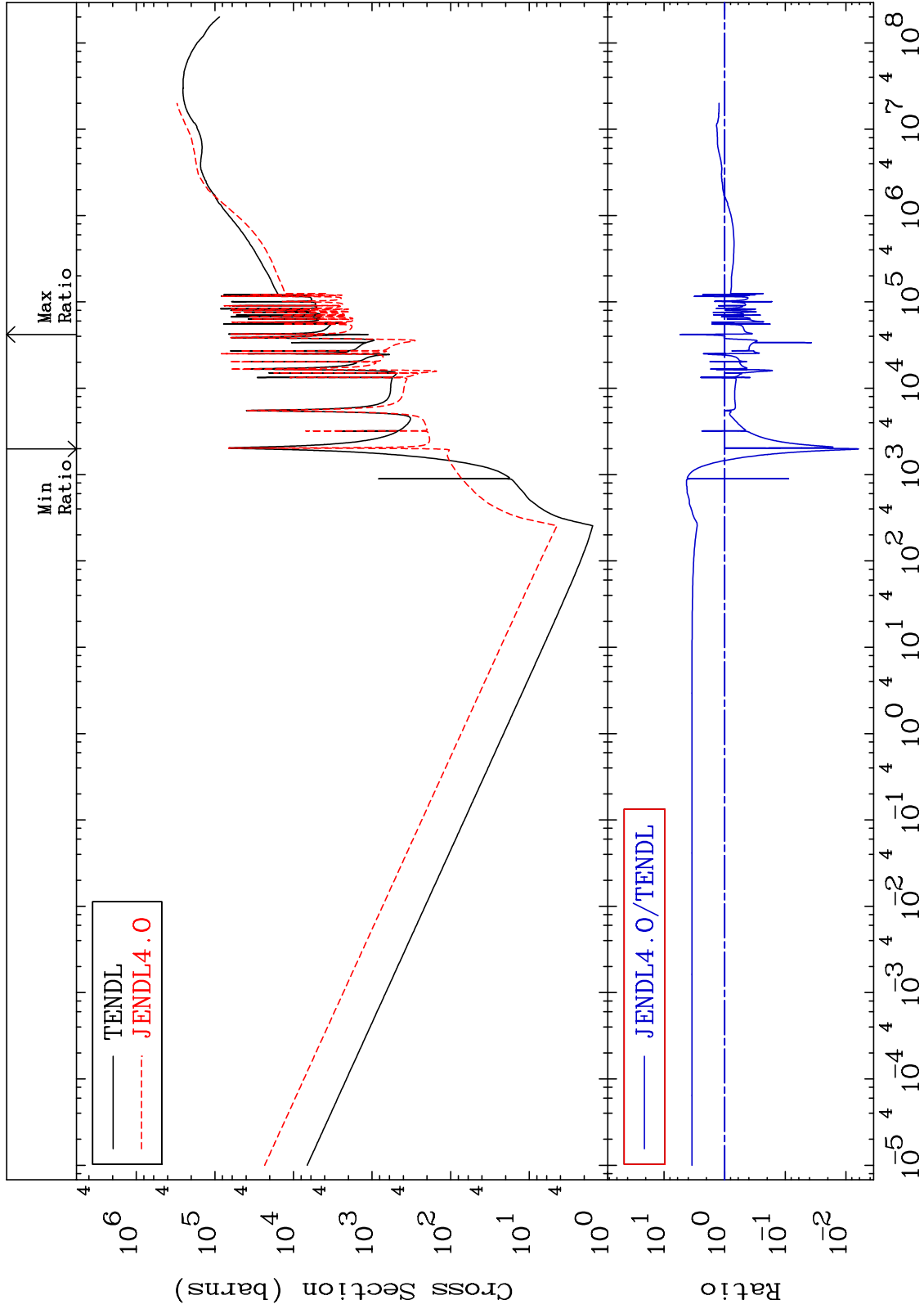
MAT 1931 Total kinematic kerma (high limit) 19-K -41  
Cross Section -99.30 To 446.5 %



MAT 1931

Dpa total (eV-barns)  
Cross Section

19-K -41  
-99.37 To 445.0 %

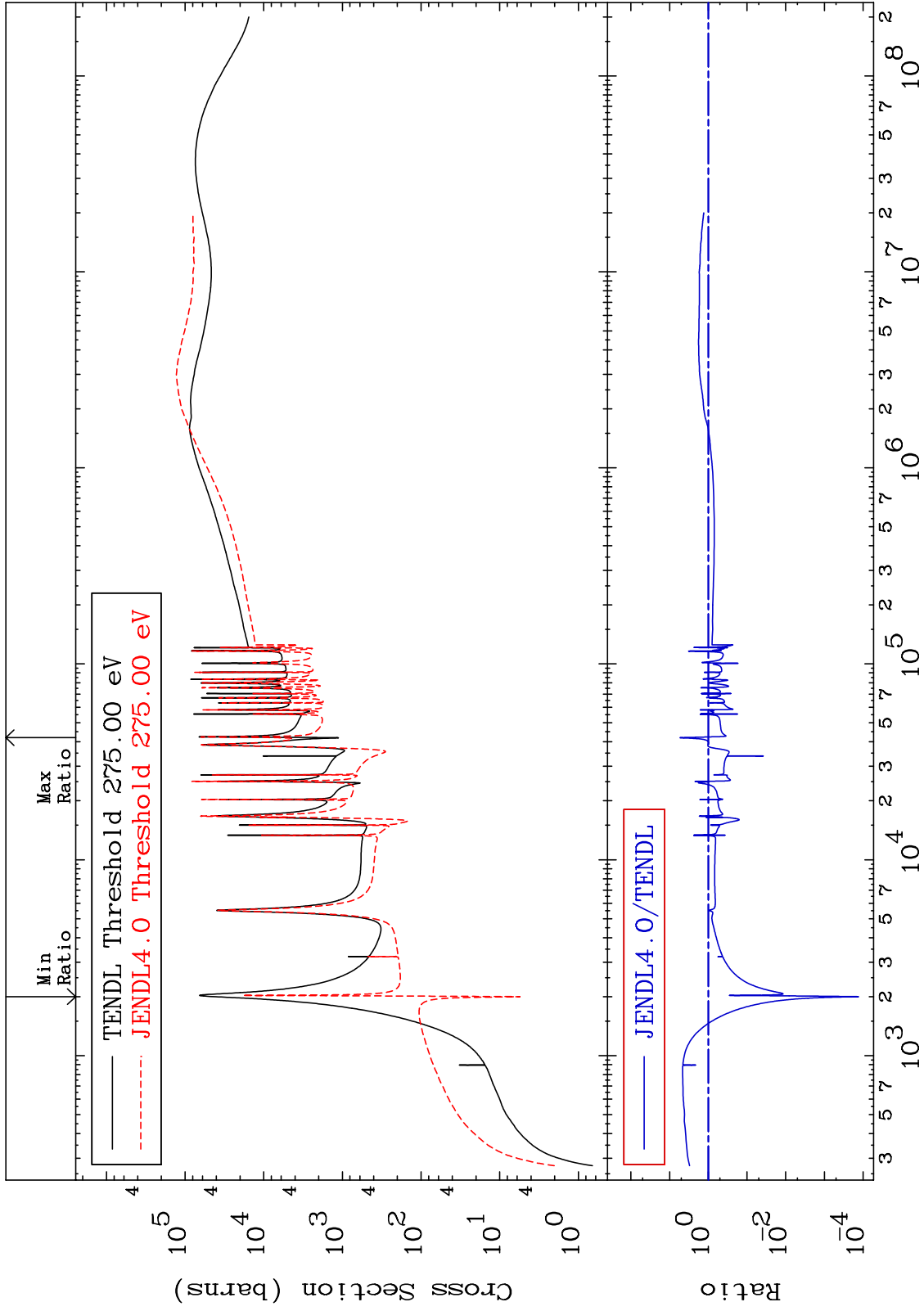




MAT 1931

Dpa elastic (mt2)  
Cross Section

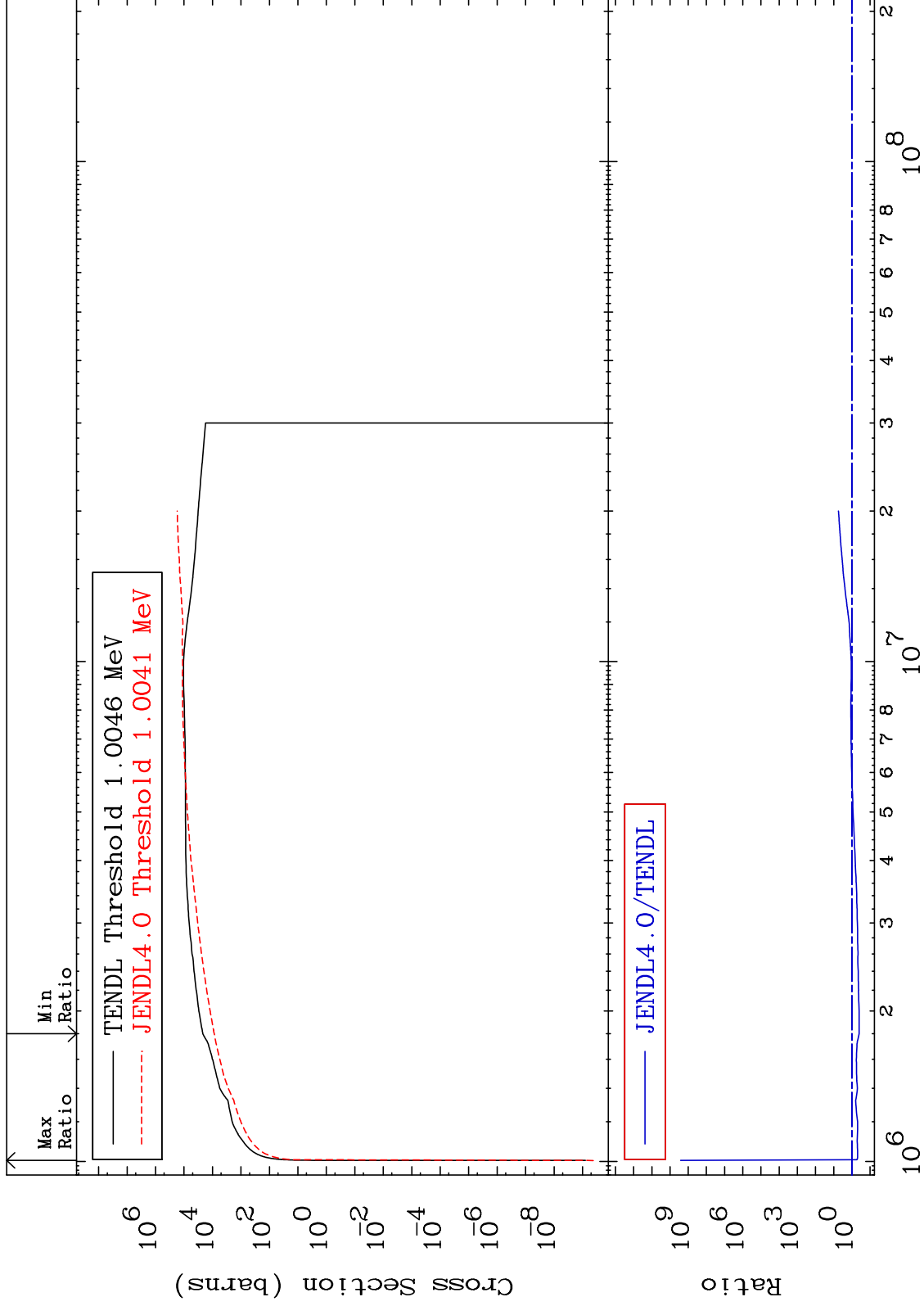
19-K -41  
-99.99 To 445.0 %



MAT 1931

Dpa inelastic (mt51-91)  
Cross Section

19-K -41  
-60.26 To 9999. %



Incident Energy (eV)

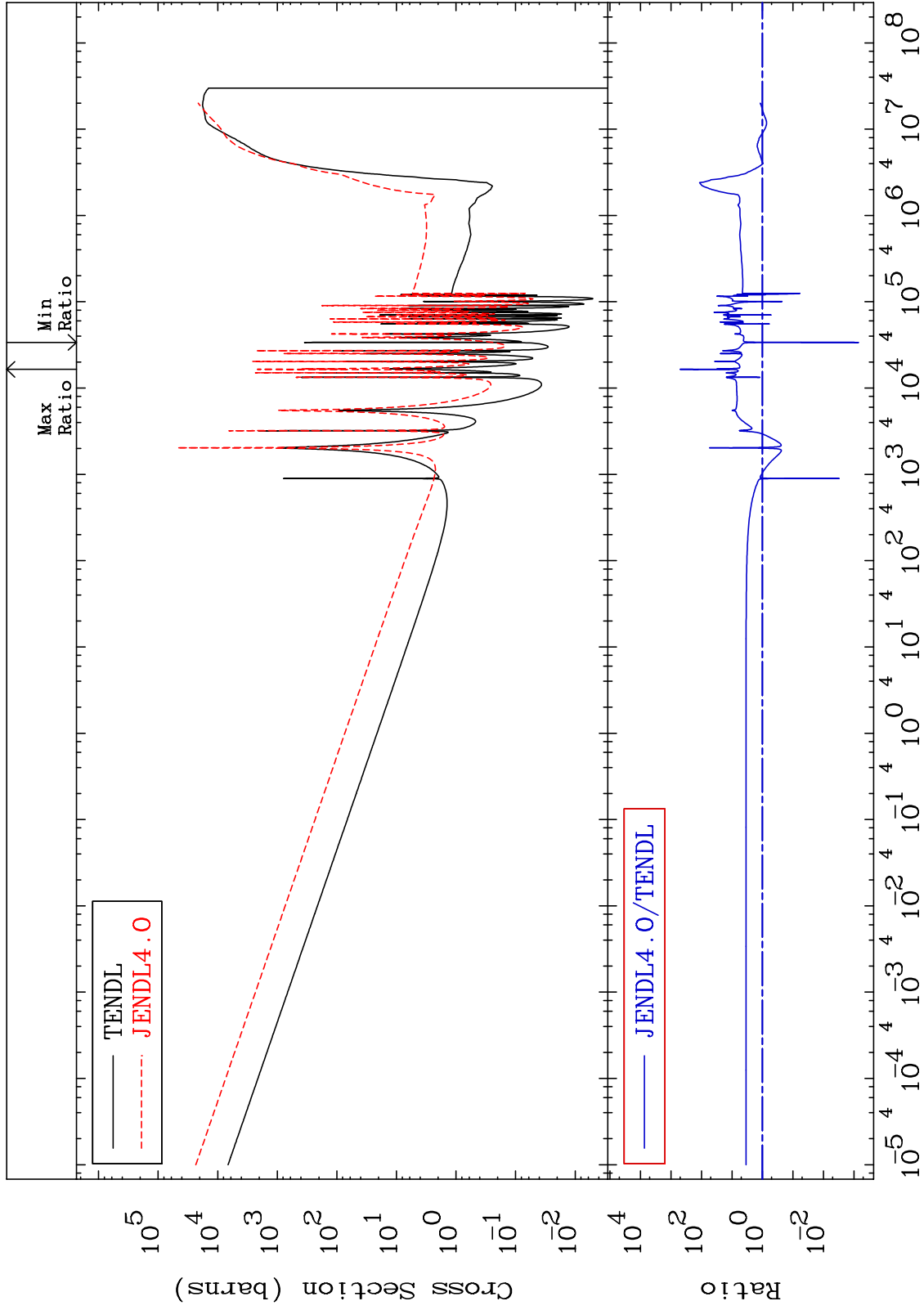
19-K -41

25

MAT 1931

Dpa disappearance (mt102 -120)  
Cross Section

19-K -41  
-99.93 To 9999. %



26

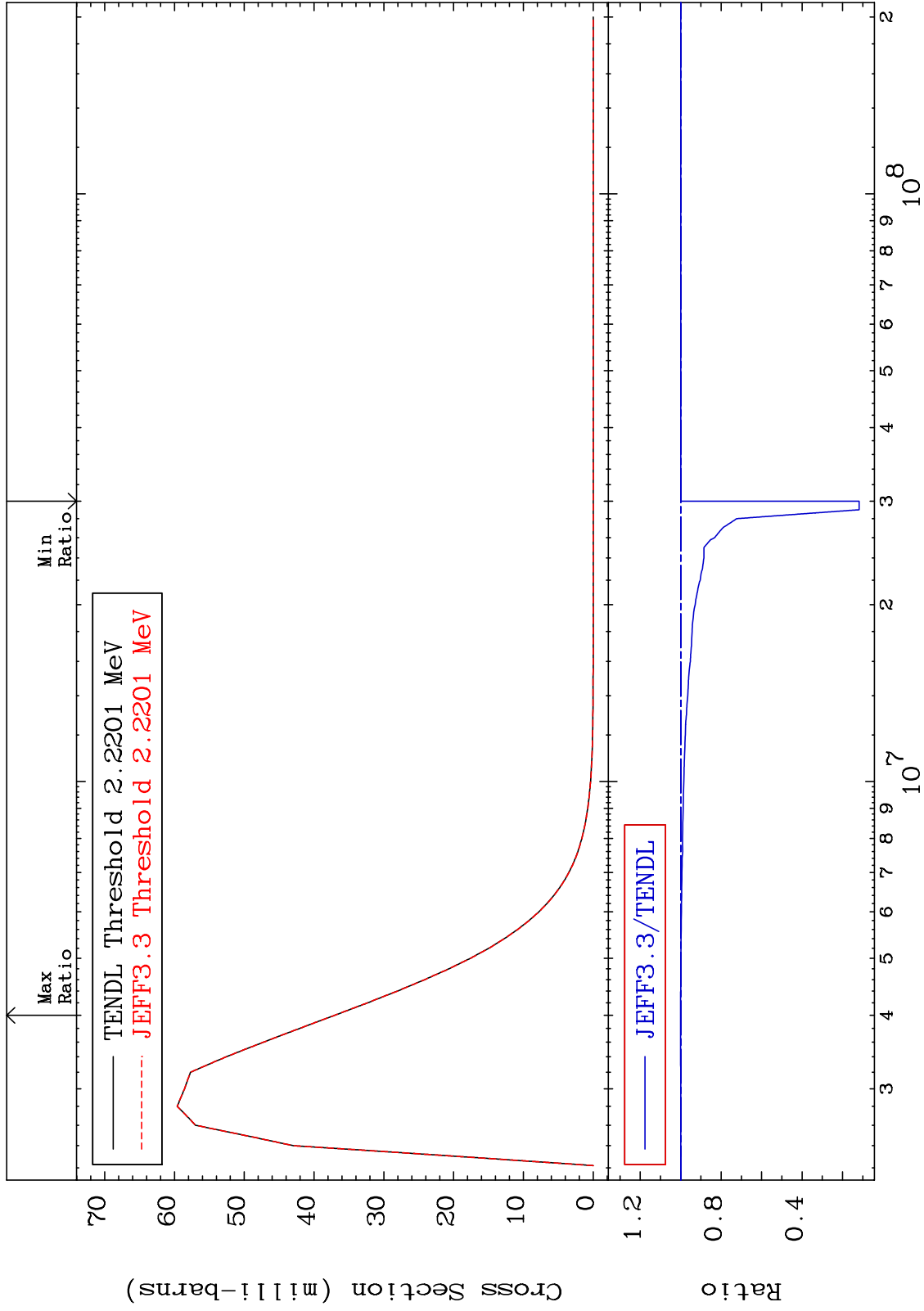
Incident Energy (eV)

19-K -41

MAT 1931

MT= 59 (n, n') Level  
Cross Section

19-K -41  
-88.23 To 0.050 %



27

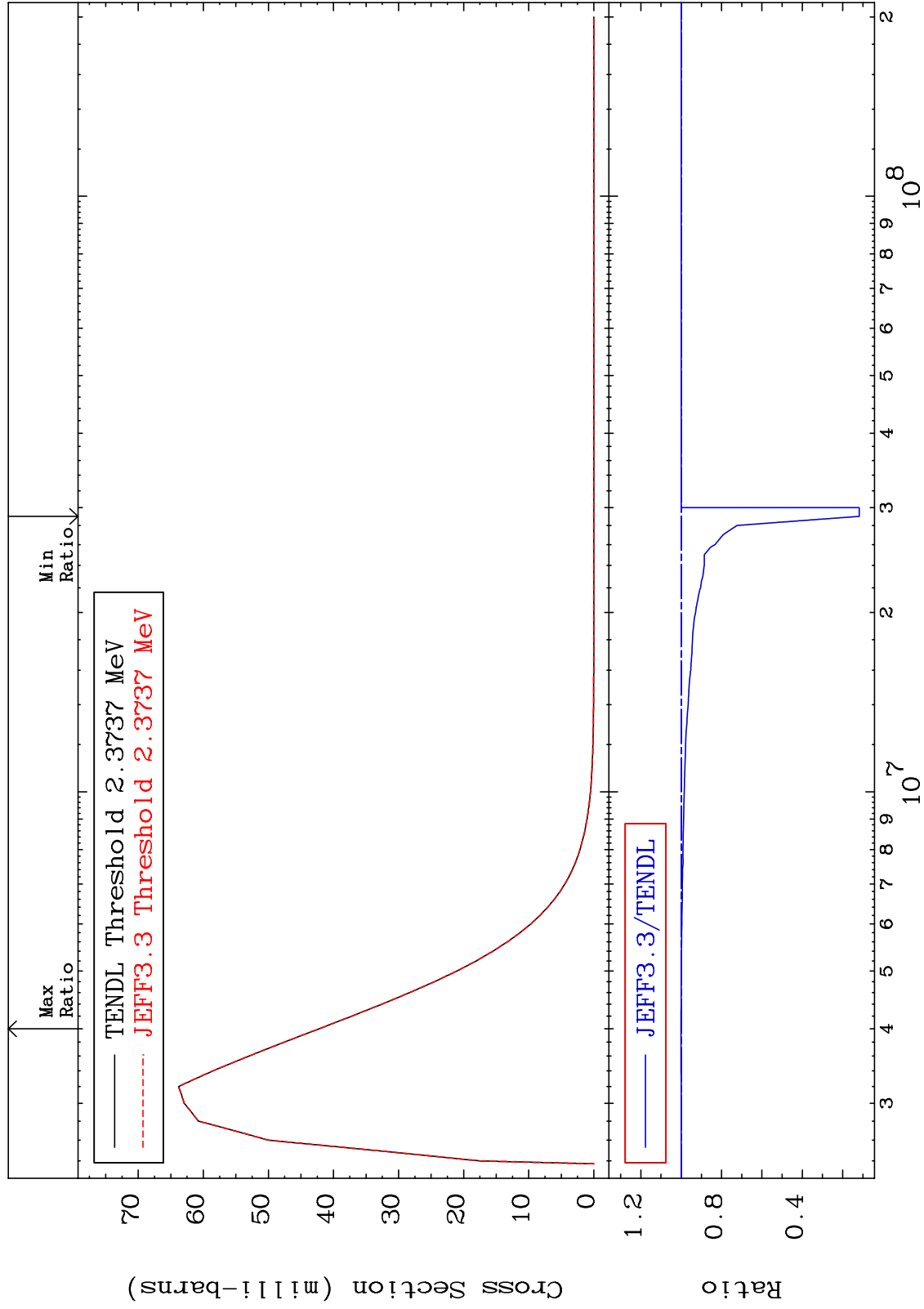
Incident Energy (eV)

19-K -41

MAT 1931

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

19-K -41  
-88.24 To 0.063 %



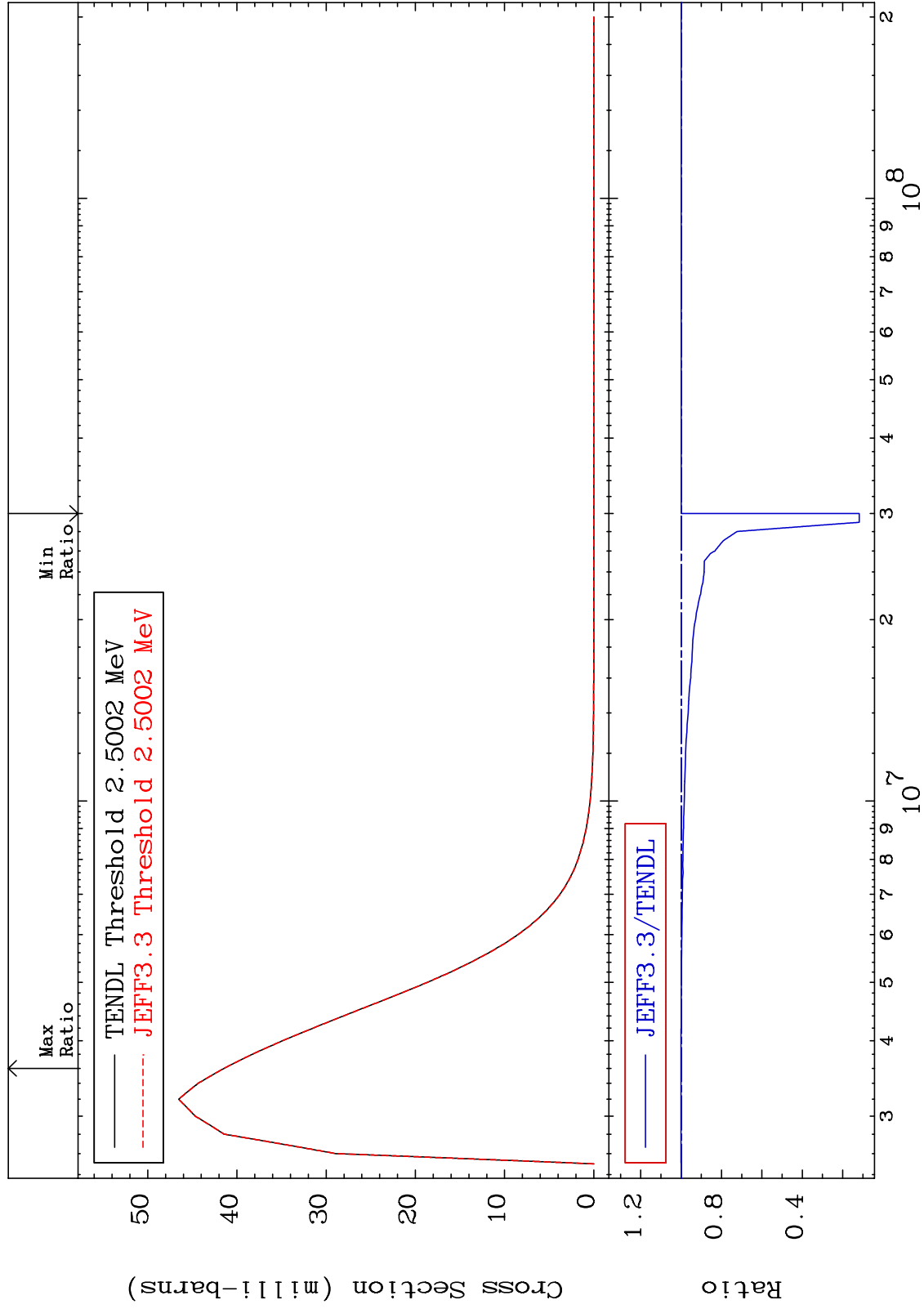
28

19-K -41

MAT 1931

MT= 61 (n,n') Level  
Cross Section

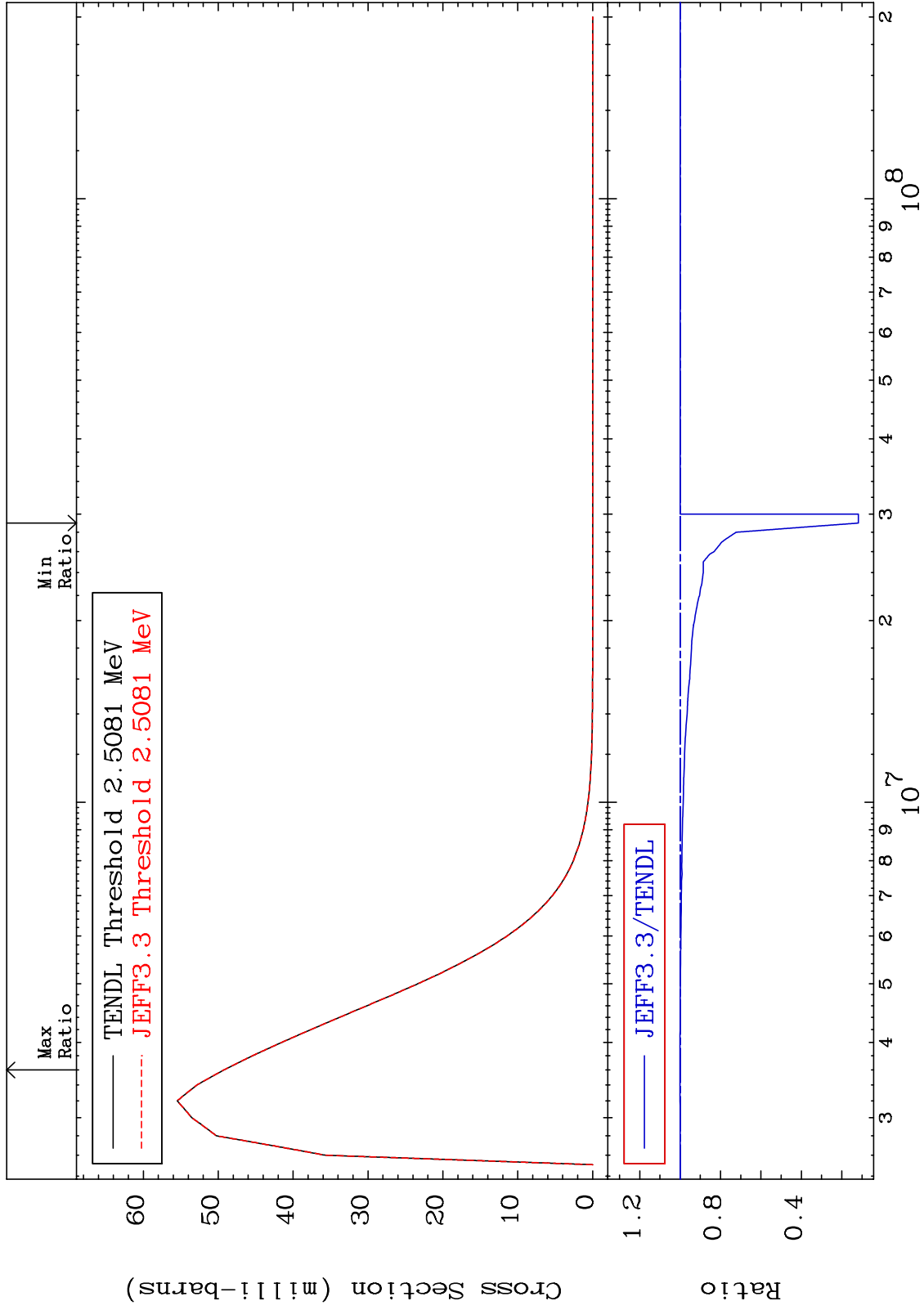
19-K -41  
-88.24 To 0.035 %



MAT 1931

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

19-K -41  
-88.24 To 0.059 %



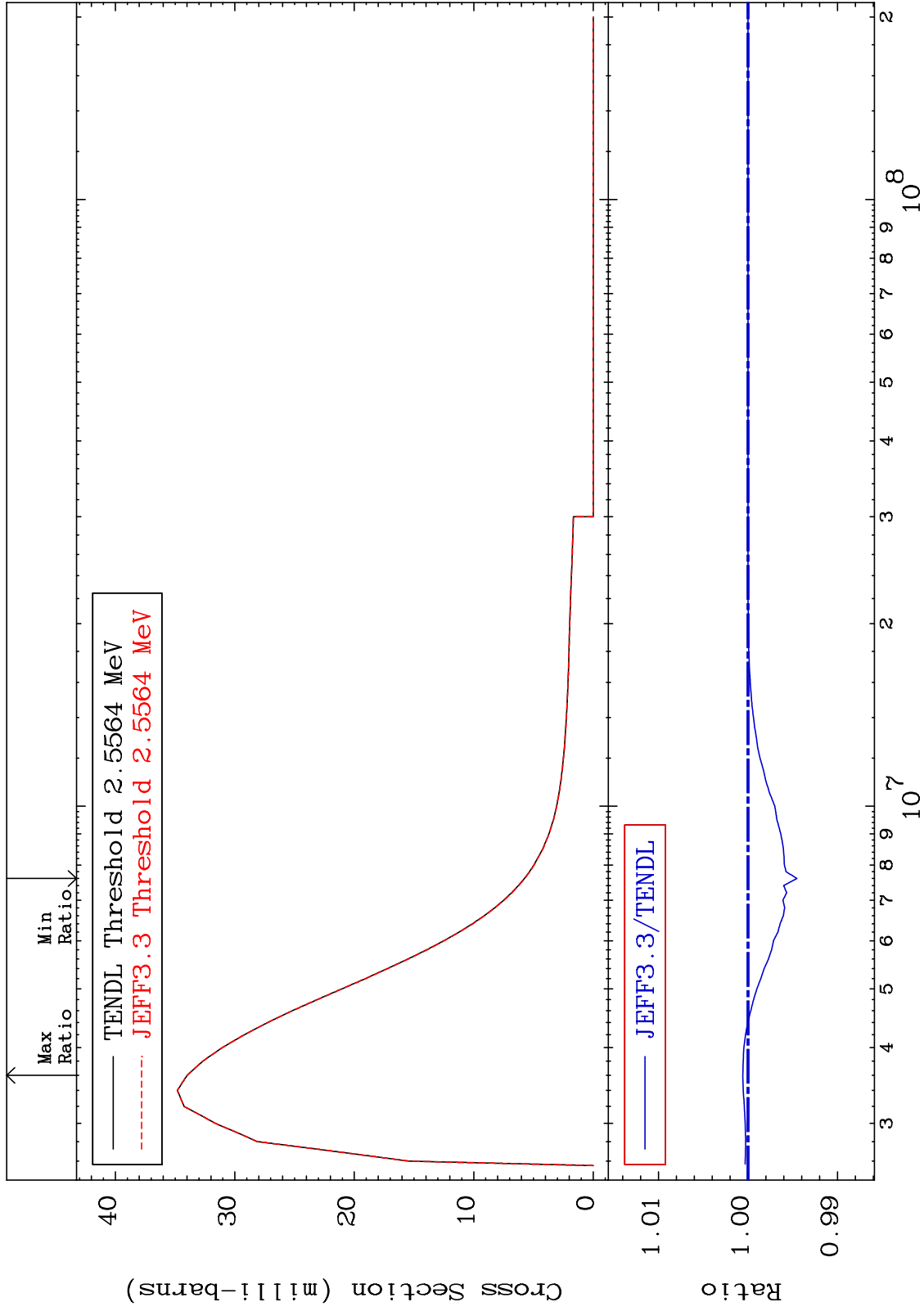
30

19-K -41

MAT 1931

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

19-K -41  
-0.548 To 0.058 %

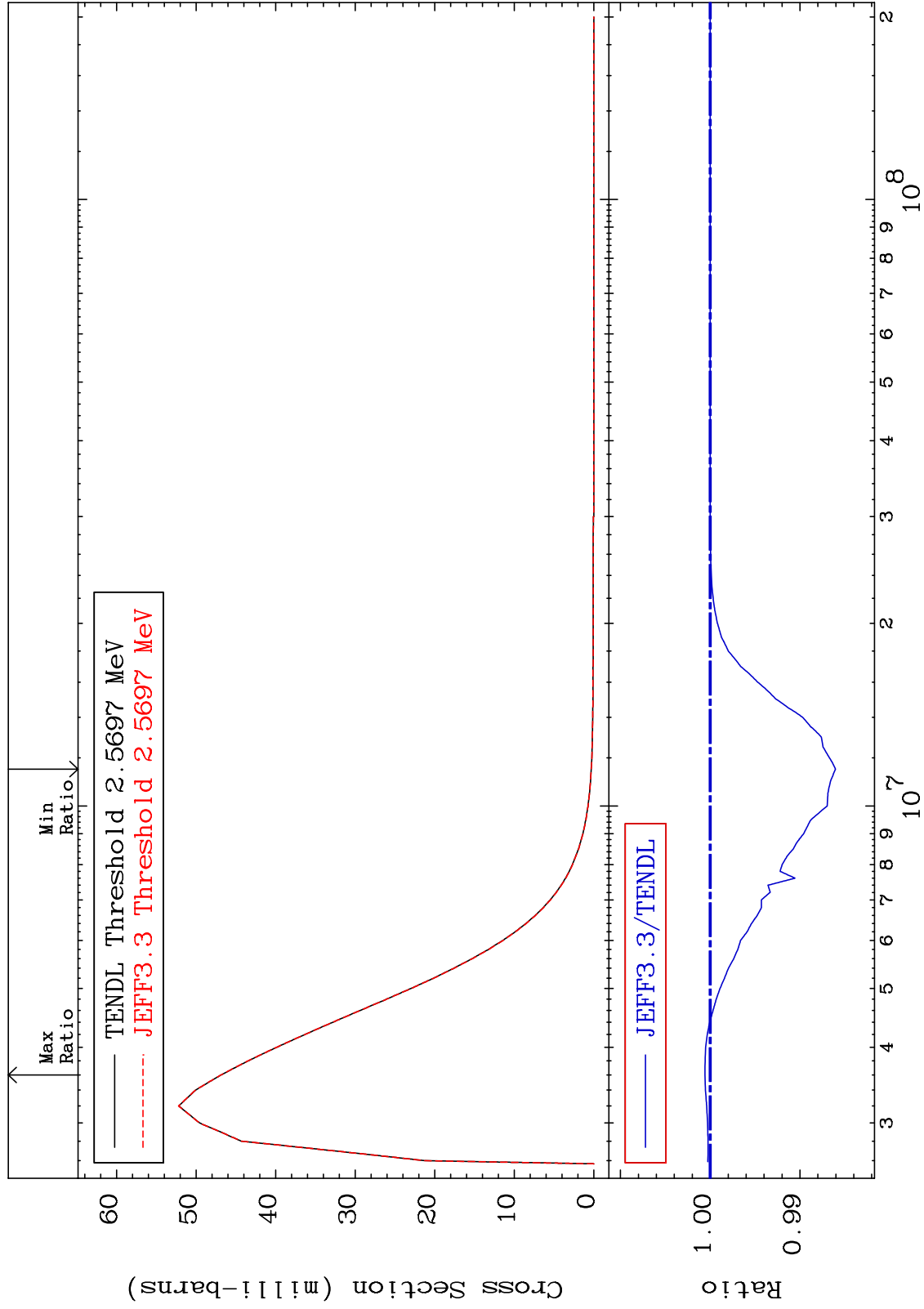




MAT 1931

MT= 64 (n,n') Level  
Cross Section

19-K -41  
-1.396 To 0.060 %

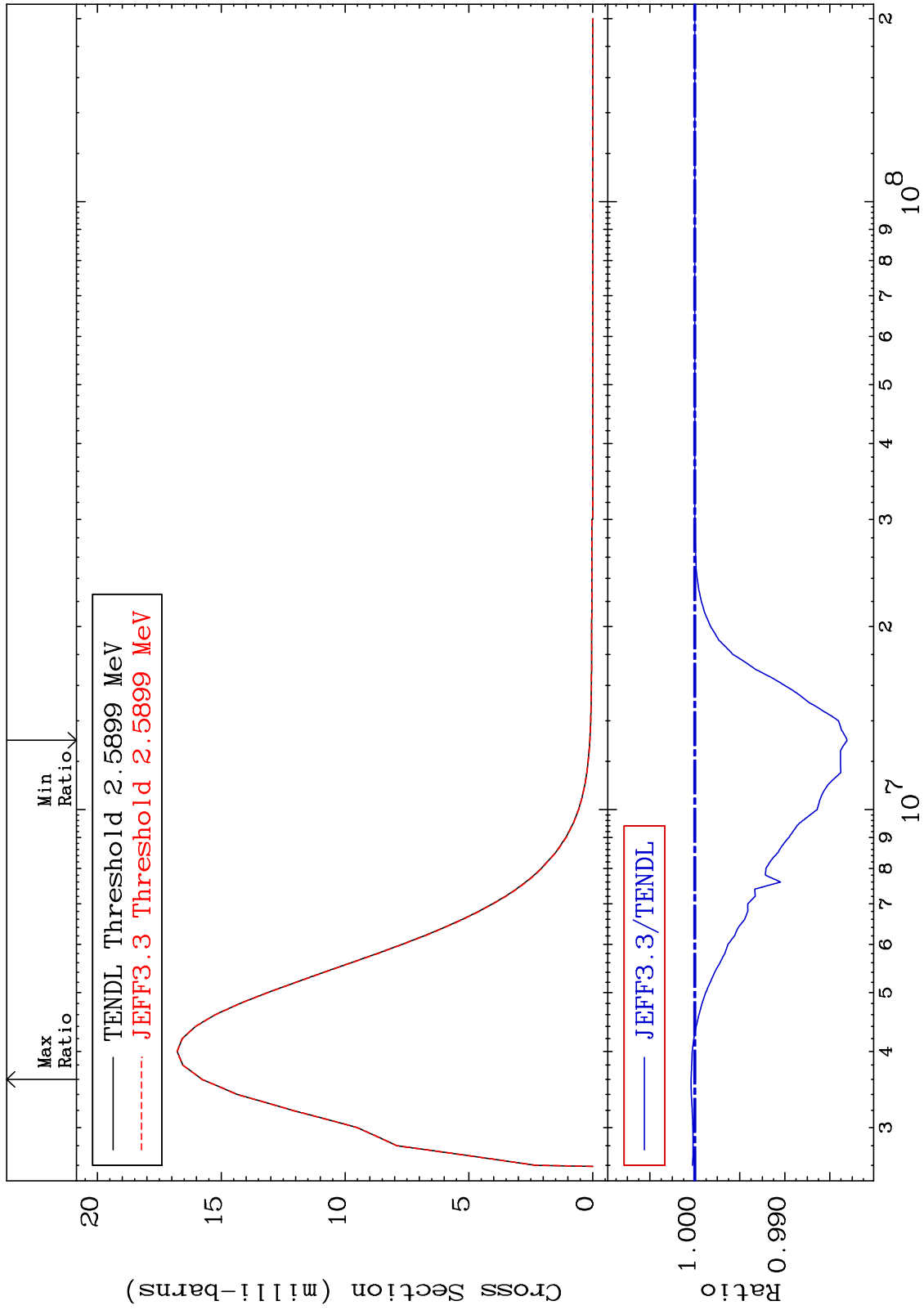


32

Incident Energy (eV)

19-K -41

MAT 1931 MT= 65 (n,n') Level  
 Cross Section 19-K -41  
 -1.696 To 0.042 %



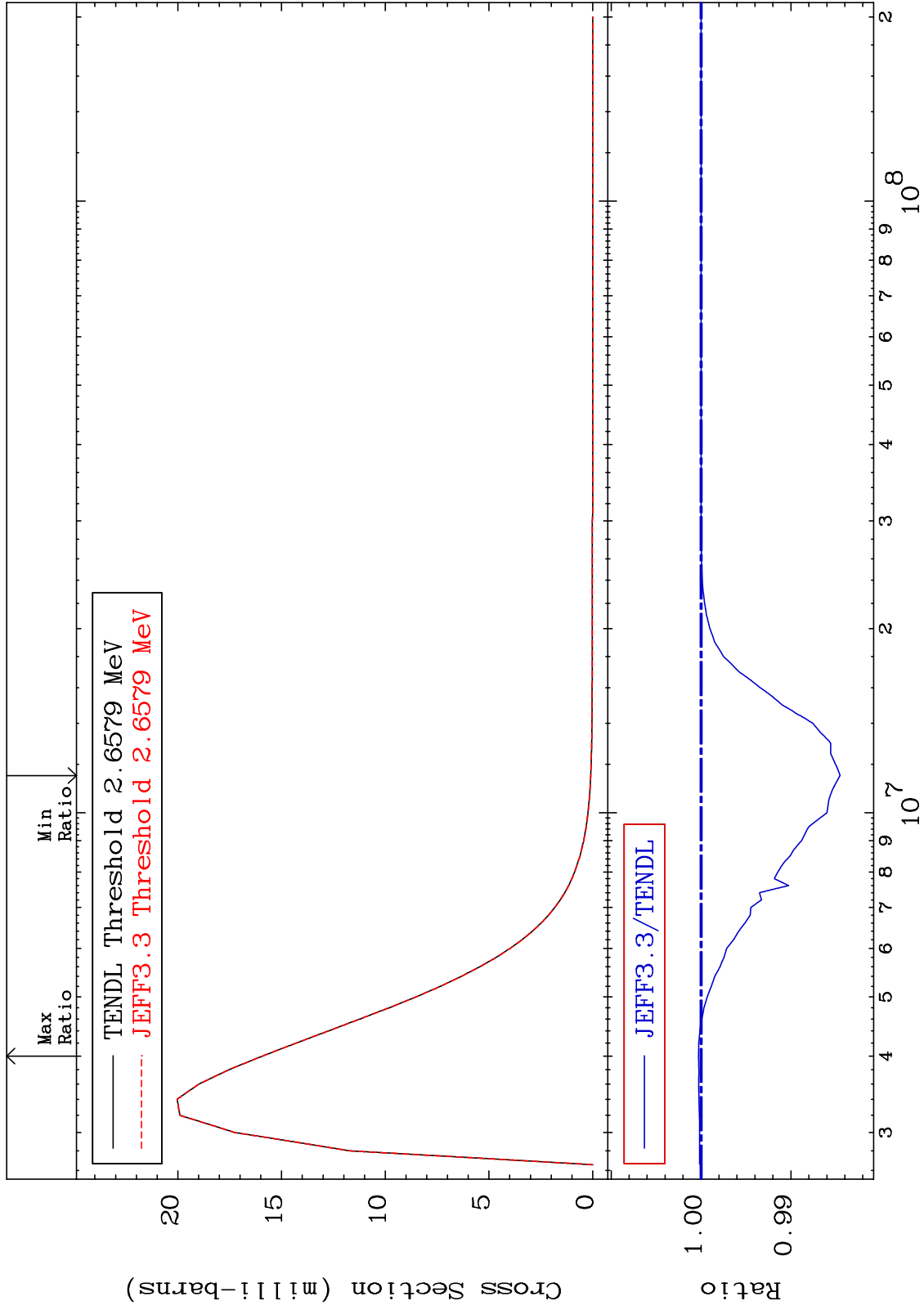
19-K -41

Incident Energy (eV)

MAT 1931

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

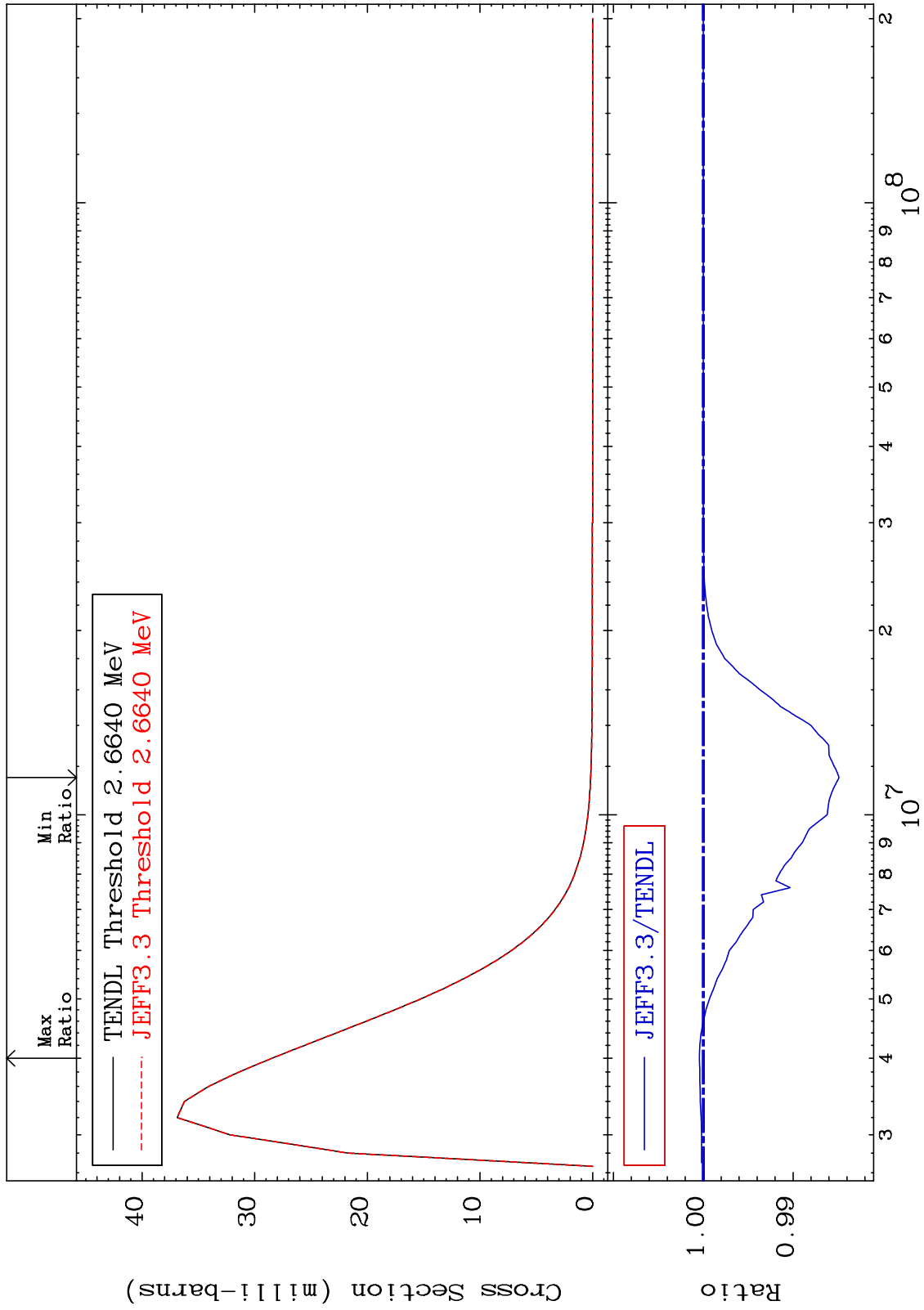
19-K -41  
-1.546 To 0.029 %



34

19-K -41

MAT 1931 MT= 67 (n,n') Level  
 Cross Section 19-K -41  
 -1.512 To 0.043 %

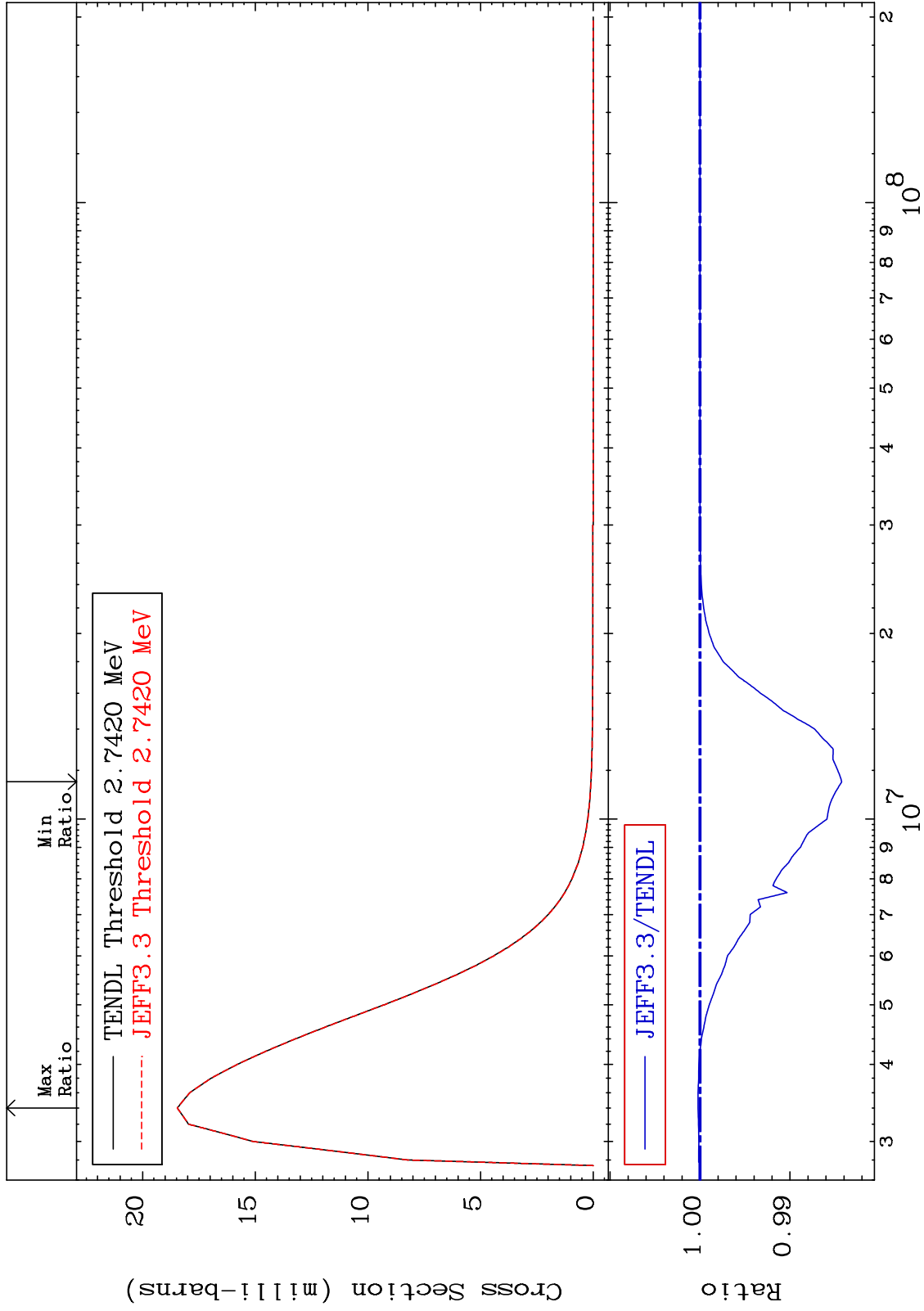


19-K -41

MAT 1931

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

19-K -41  
-1.575 To 0.022 %



36

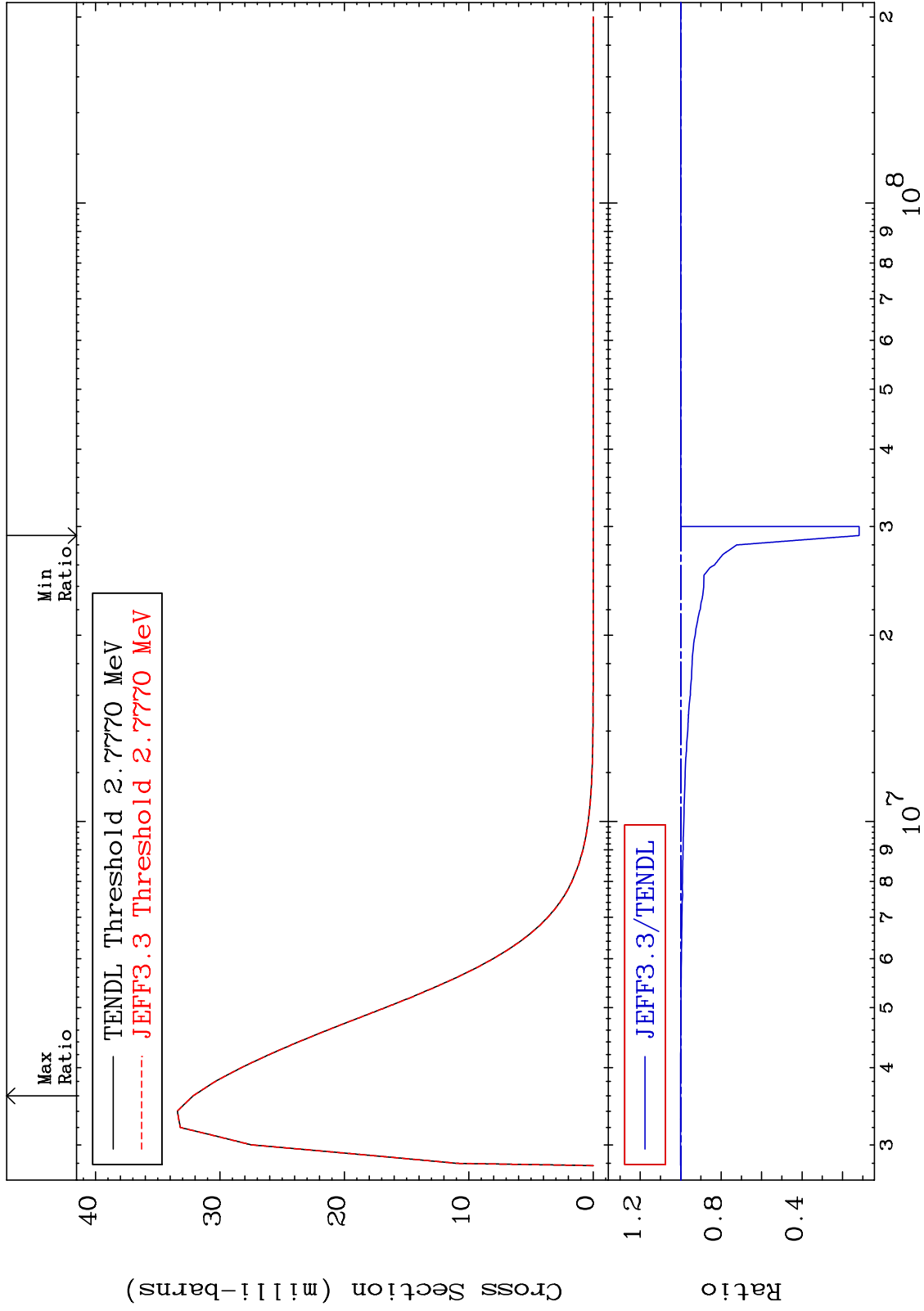
Incident Energy (eV)

19-K -41

MAT 1931

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

19-K -41  
-88.24 To 0.035 %



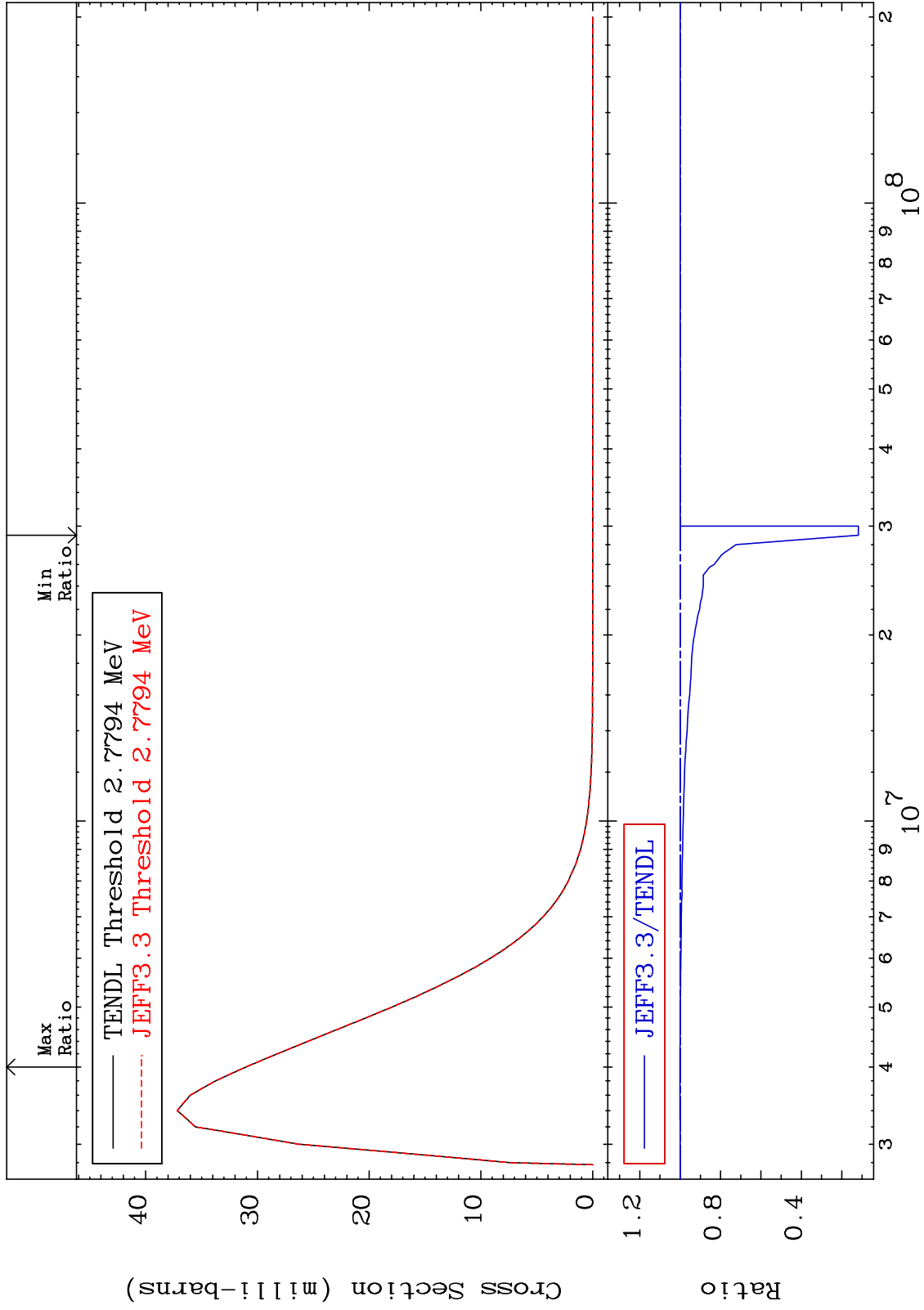
37

19-K -41

MAT 1931

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

19-K -41  
-88.24 To 0.073 %



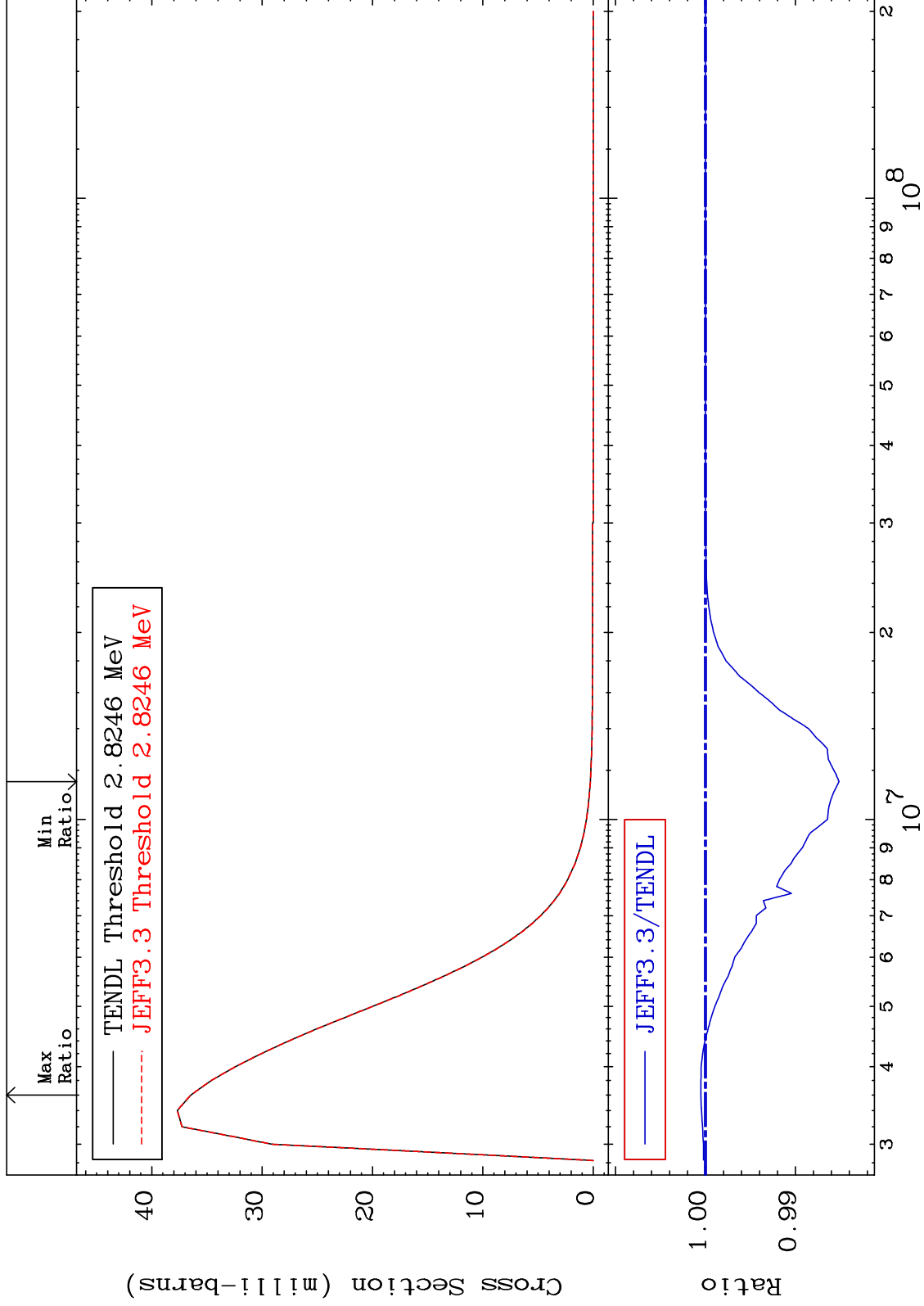
38

19-K -41

MAT 1931

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

19-K -41  
-1.484 To 0.052 %



39

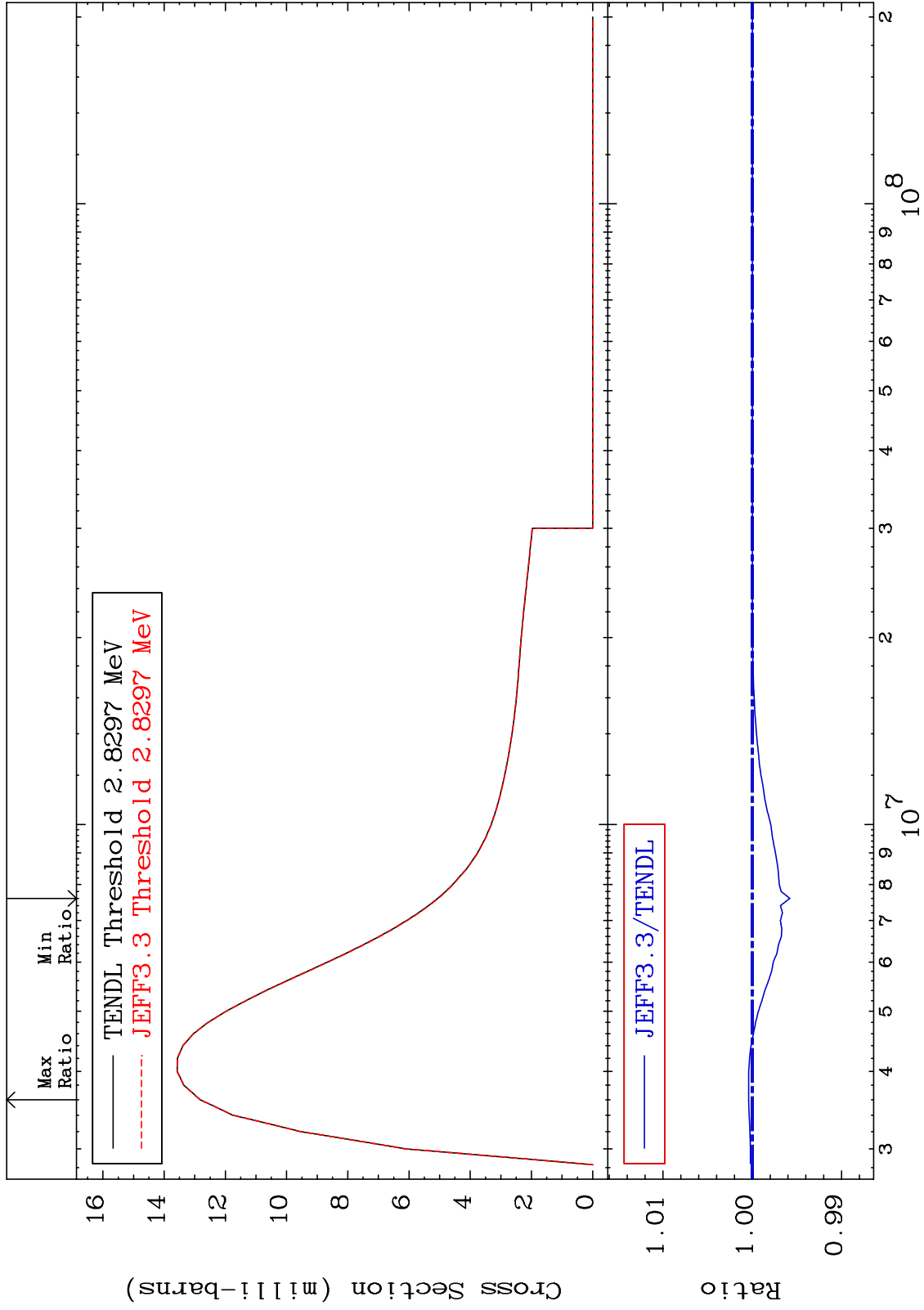
19-K -41



MAT 1931

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

19-K -41  
-0.420 To 0.041 %



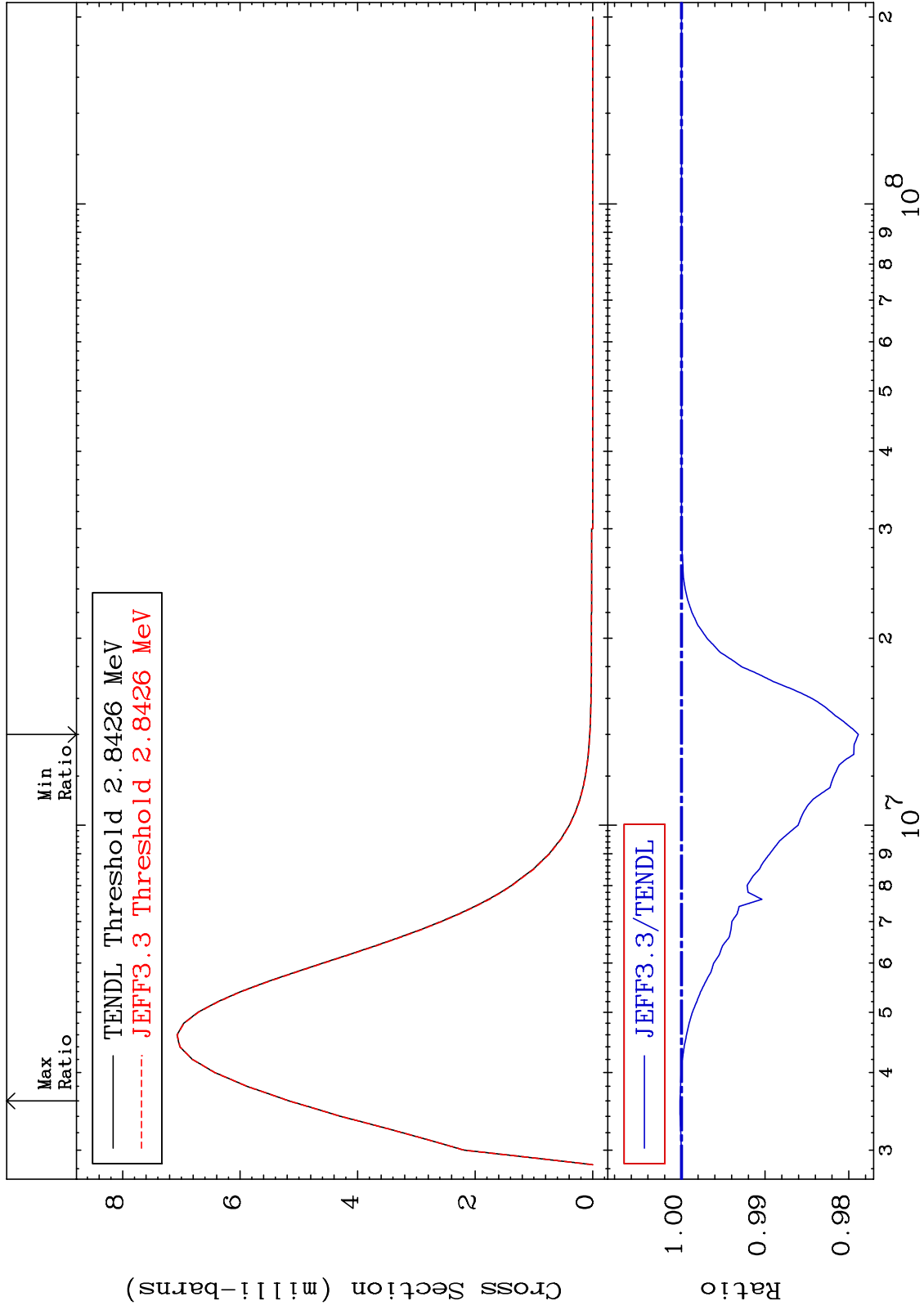
40

19-K -41

MAT 1931

MT= 73 (n,n') Level  
Cross Section

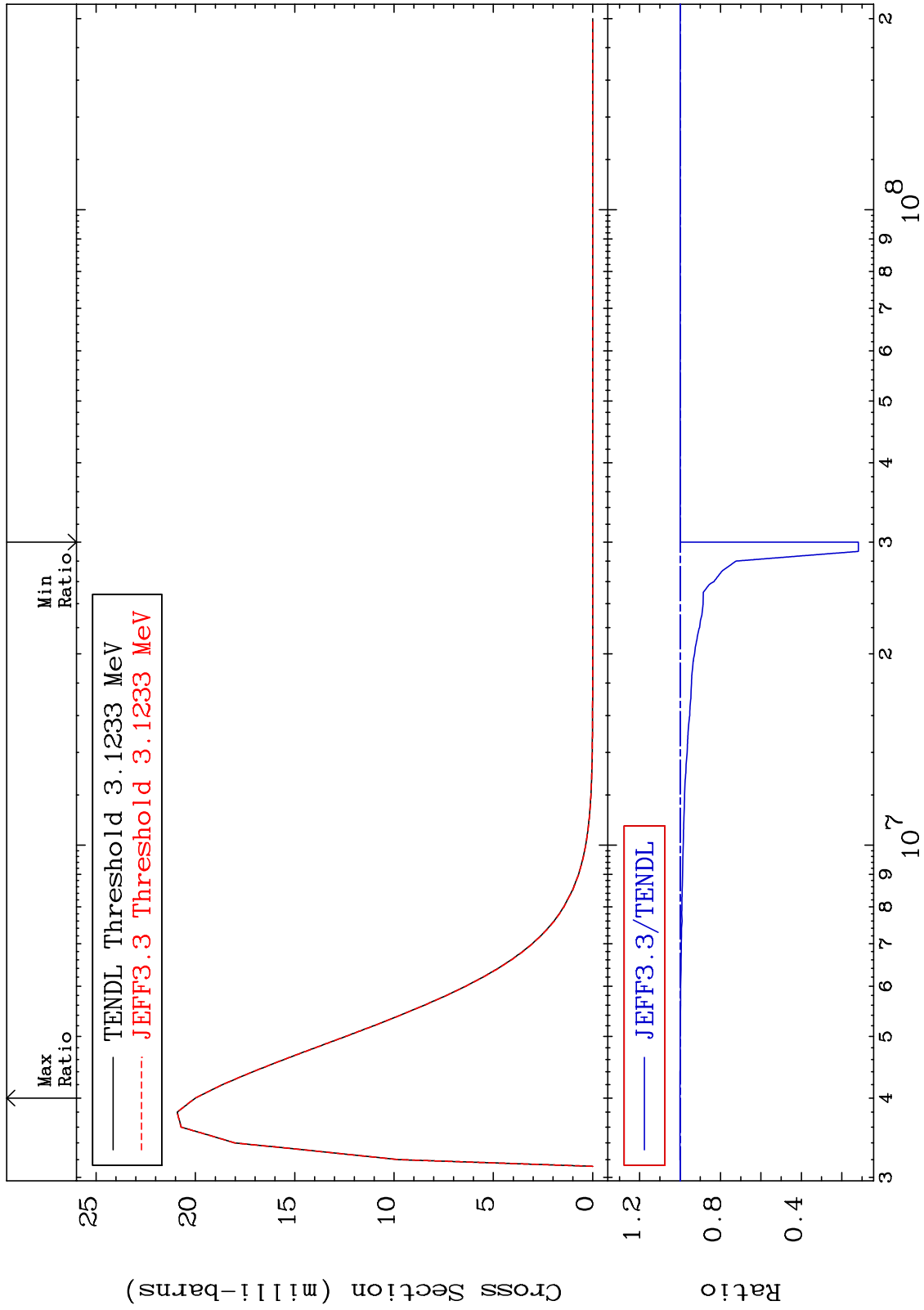
19-K -41  
-2.115 To 0.017 %



41

19-K -41

MAT 1931 MT= 74 (n, n') Level Cross Section -88.23 To 0.035 % 19-K -41

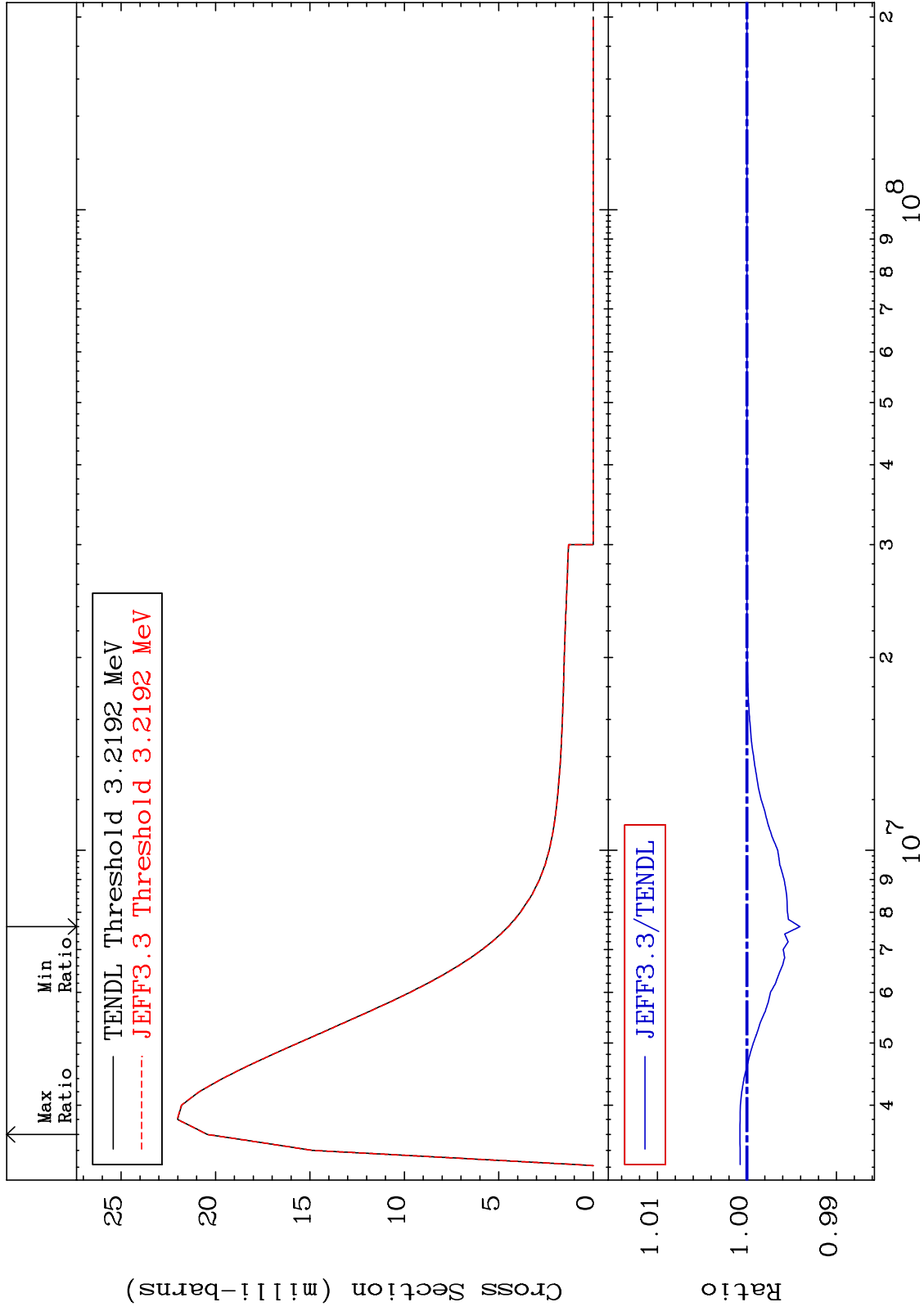


42 19-K -41

MAT 1931

MT= 75 (n,n') Level  
Cross Section

19-K -41  
-0.593 To 0.078 %



43

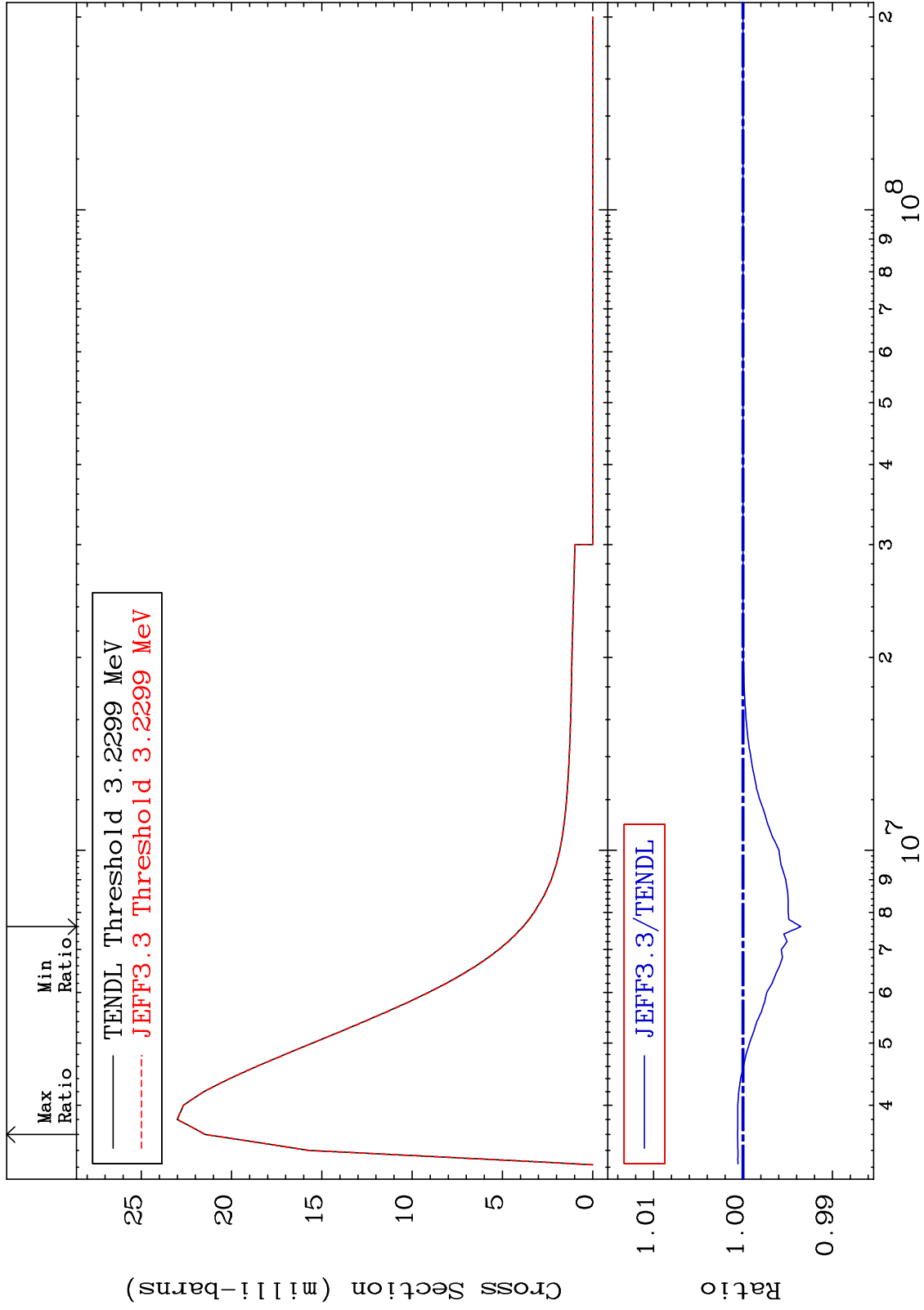
Incident Energy (eV)

19-K -41

MAT 1931

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

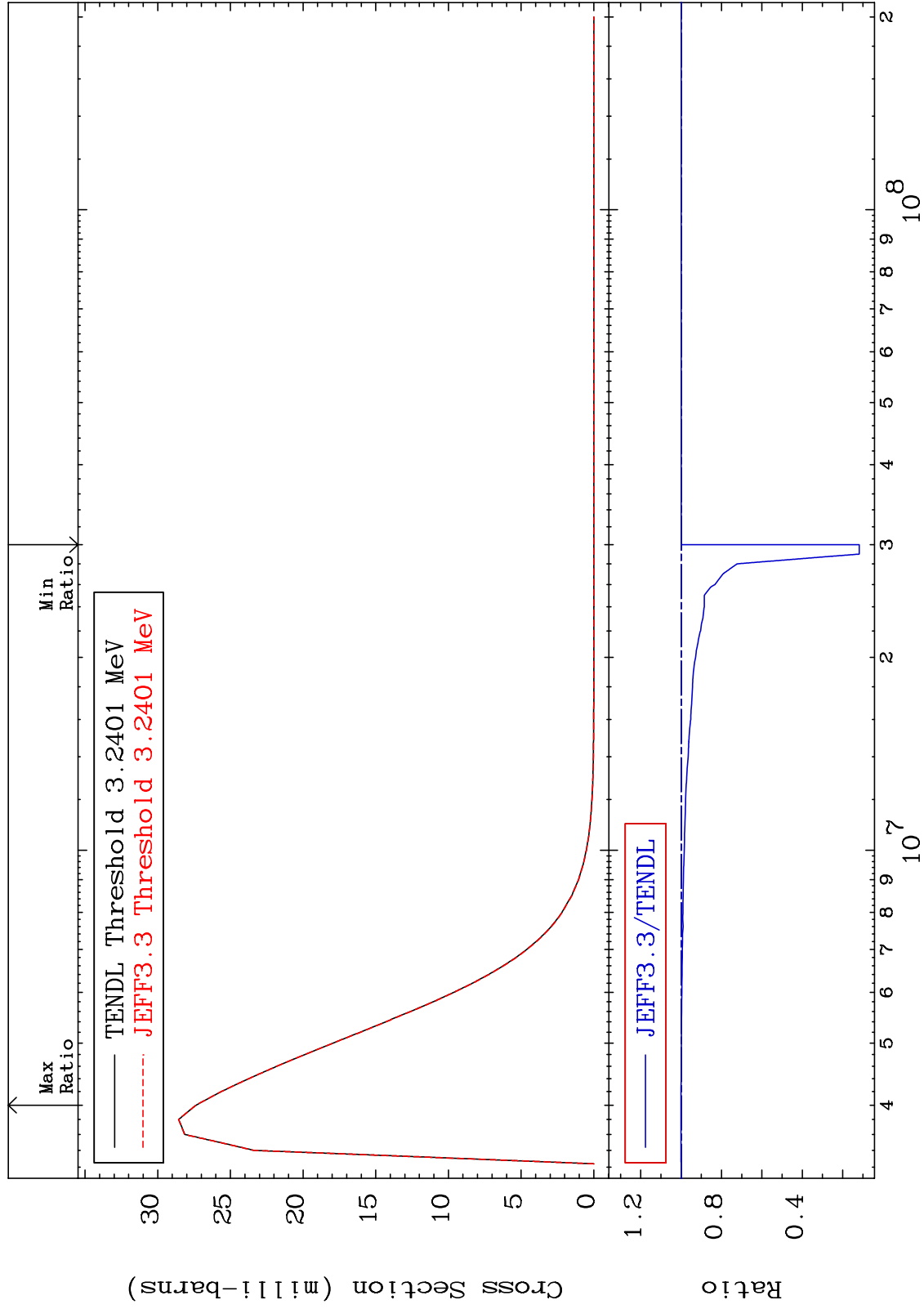
19-K -41  
-0.647 To 0.060 %



MAT 1931

MT= 77 (n, n') Level  
Cross Section

19-K -41  
-88.24 To 0.041 %



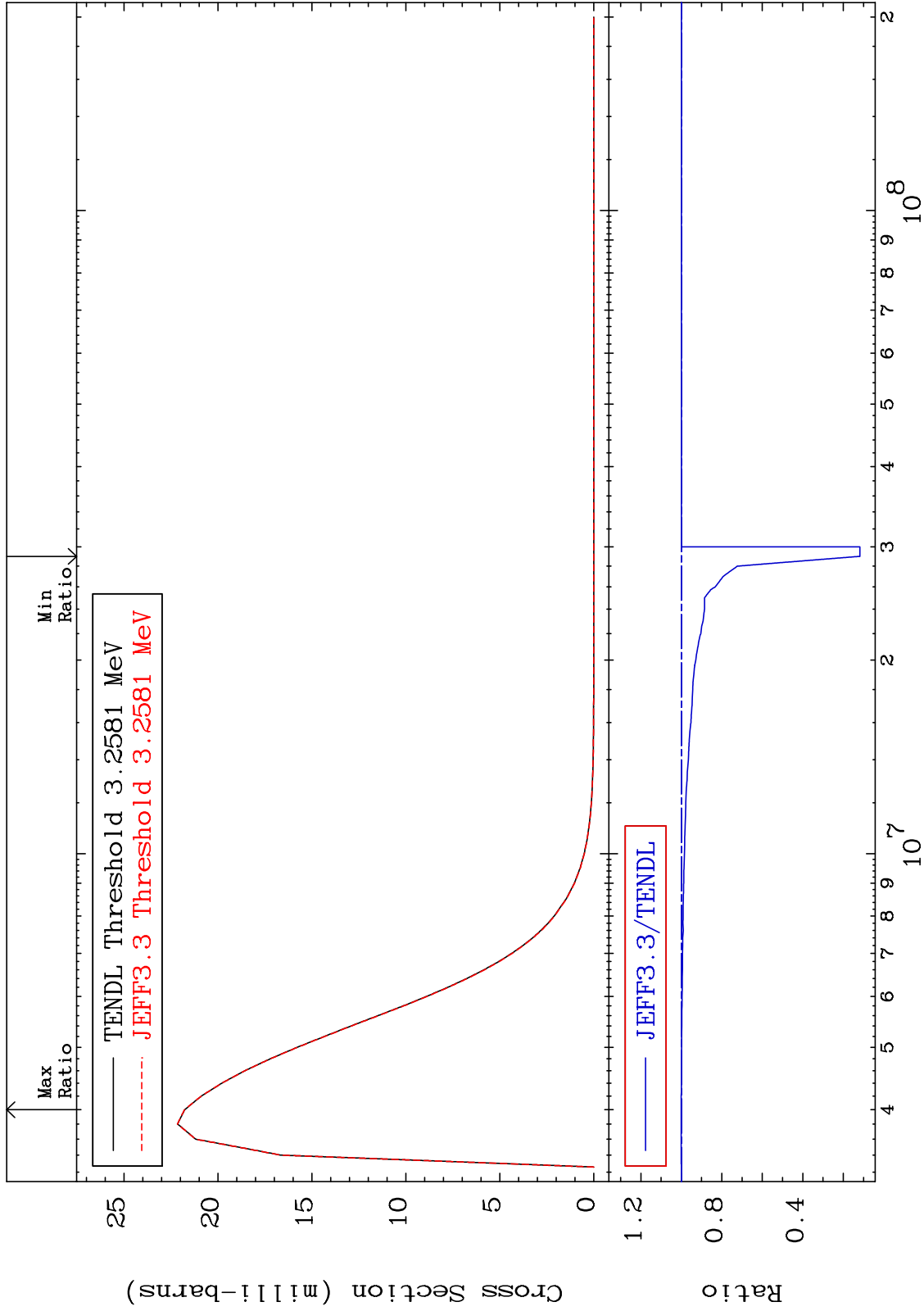
45

19-K -41

MAT 1931

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

19-K -41  
-88.24 To 0.052 %



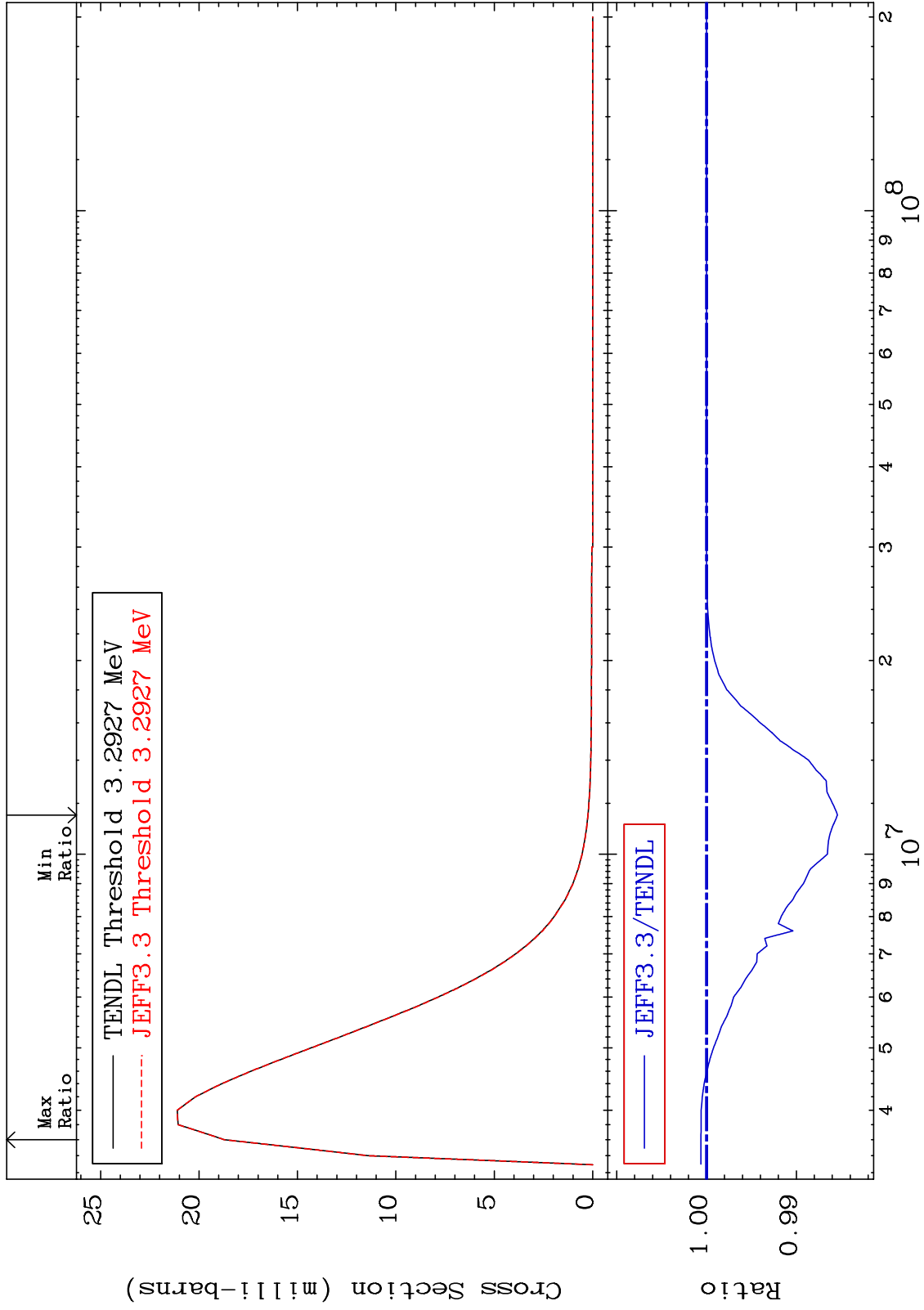
46

19-K -41

MAT 1931

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

19-K -41  
-1.459 To 0.063 %

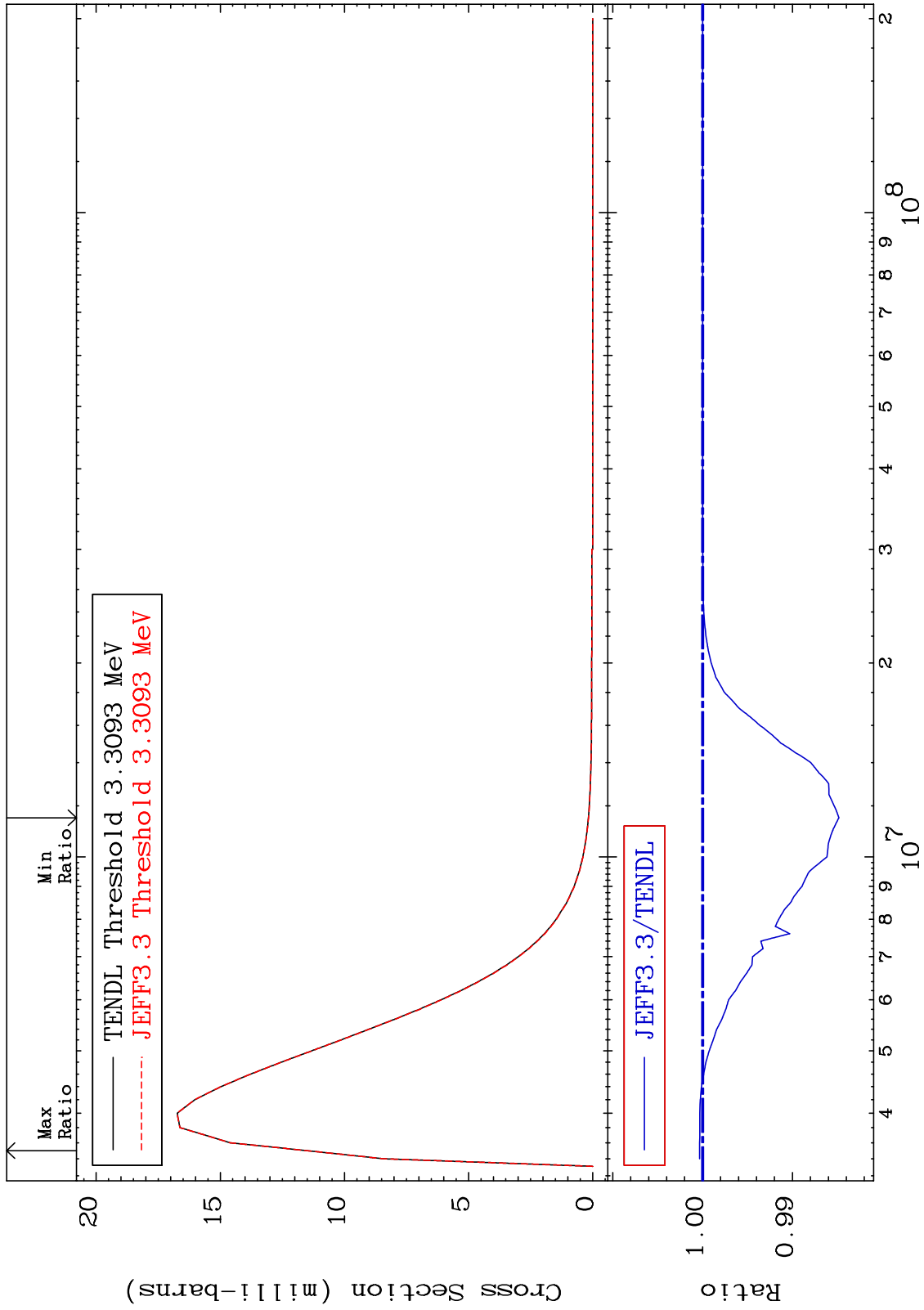


47

19-K -41



MAT 1931 MT= 80 (n,n') Level  
Cross Section 19-K -41  
-1.516 To 0.034 %



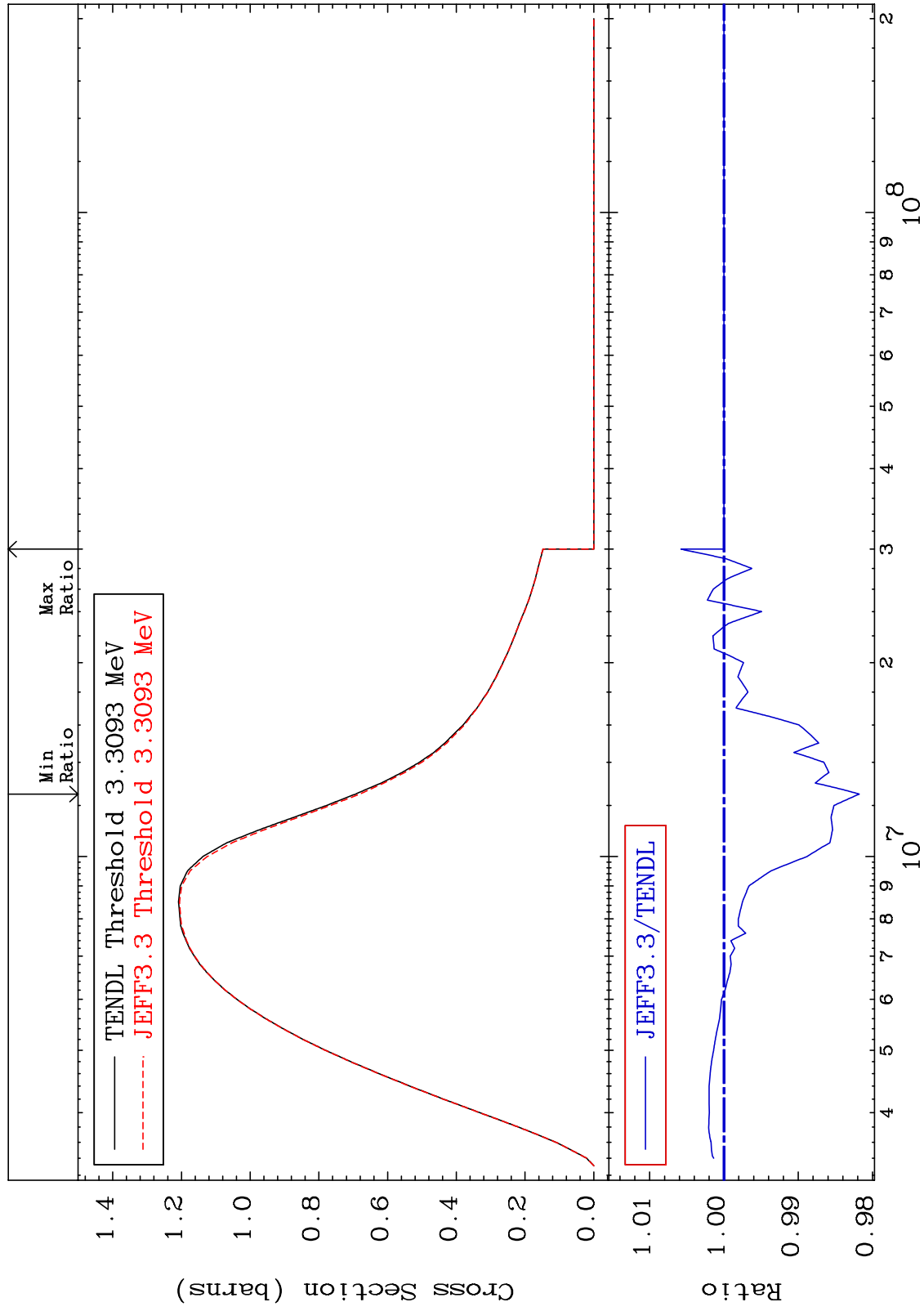
19-K -41

Incident Energy (eV)

MAT 1931

(n, n') Continuum  
Cross Section

19-K -41  
-1.821 To 0.578 %



49

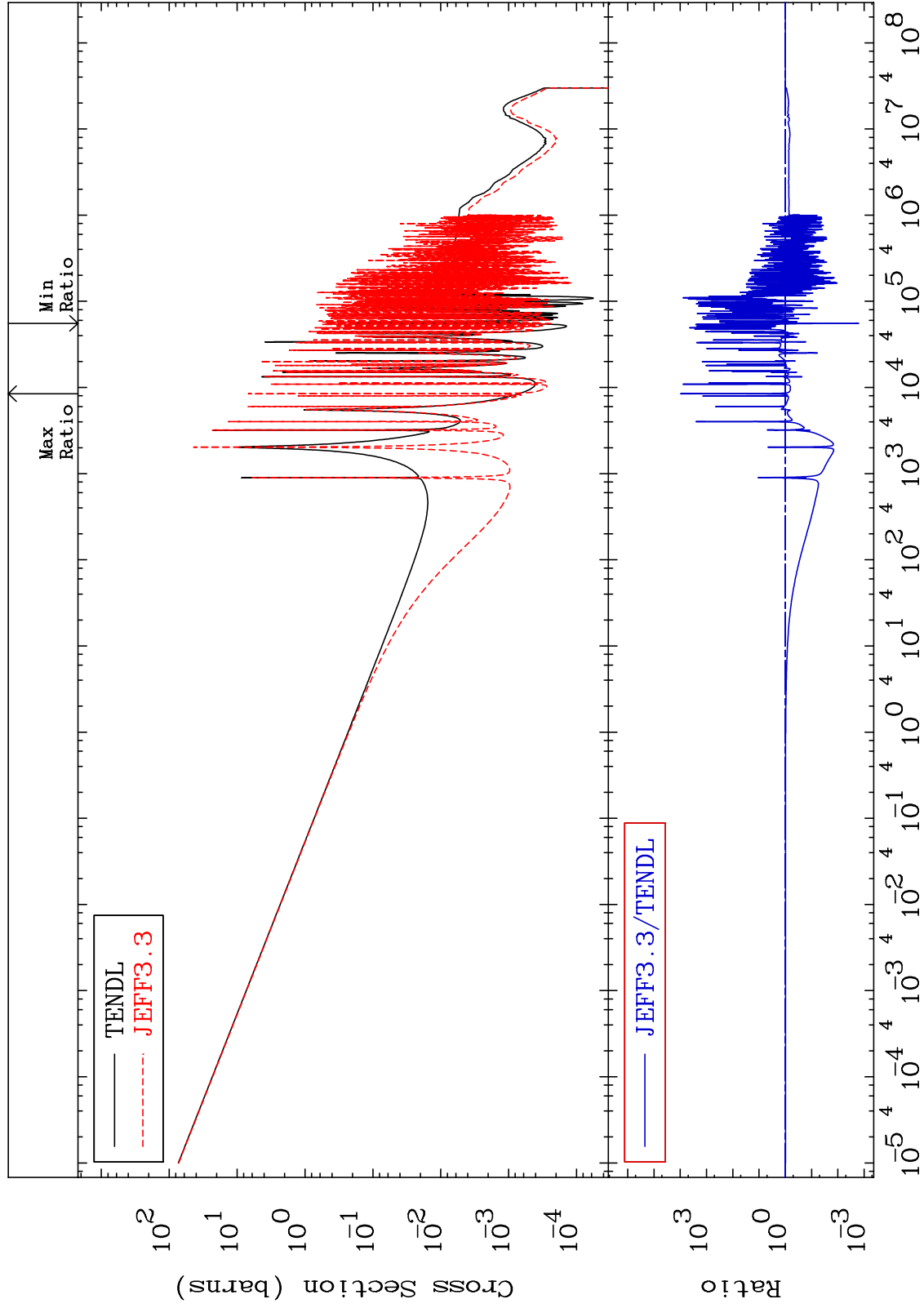
Incident Energy (eV)

19-K -41

MAT 1931

(n,  $\gamma$ )  
Cross Section

19-K -41  
-99.84 To 9999. %



50

Incident Energy (eV)

19-K -41

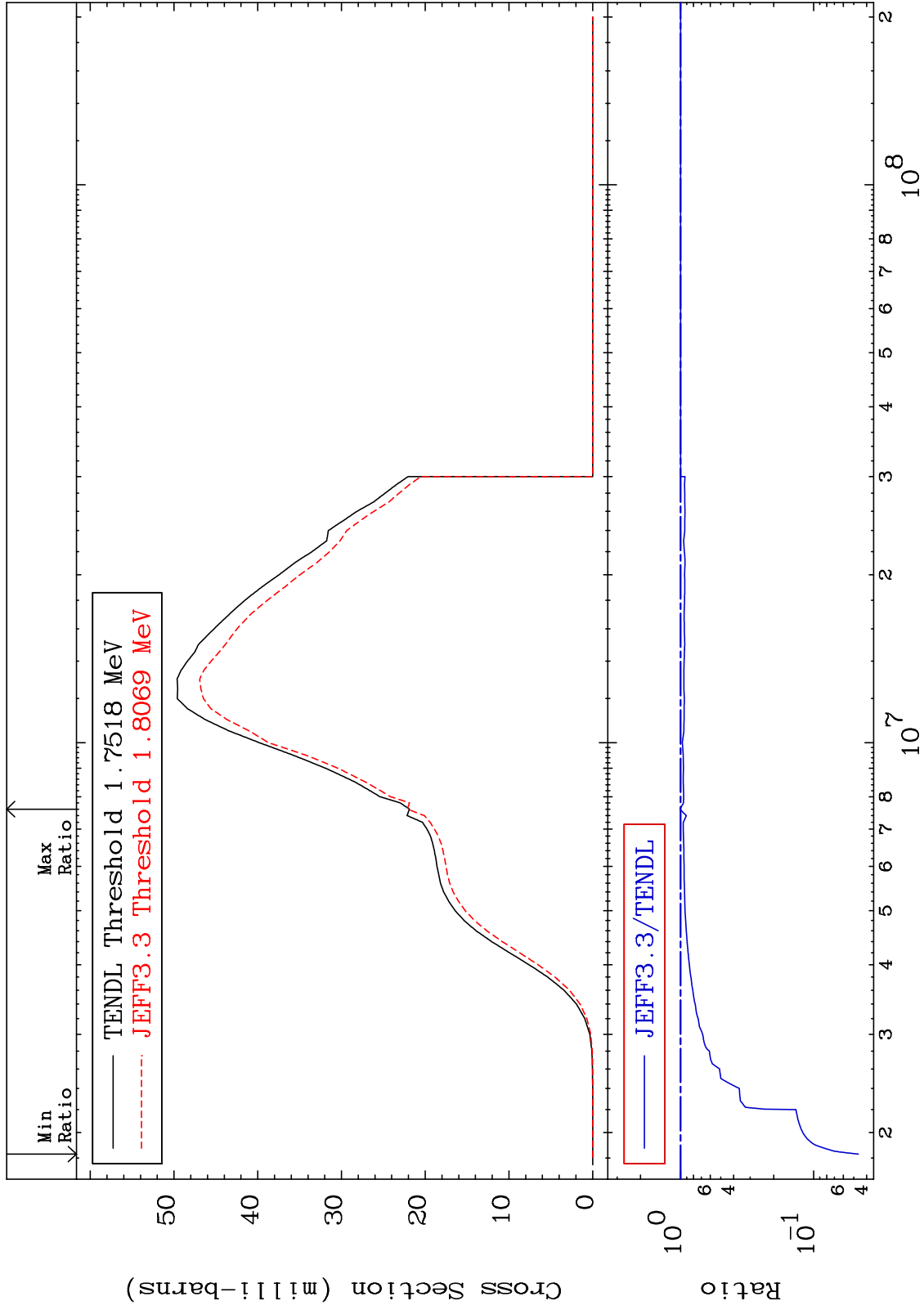
MAT 1931

(n,p)

19-K -41

Cross Section

-95.38 To 1.094 %



51

Incident Energy (eV)

19-K -41

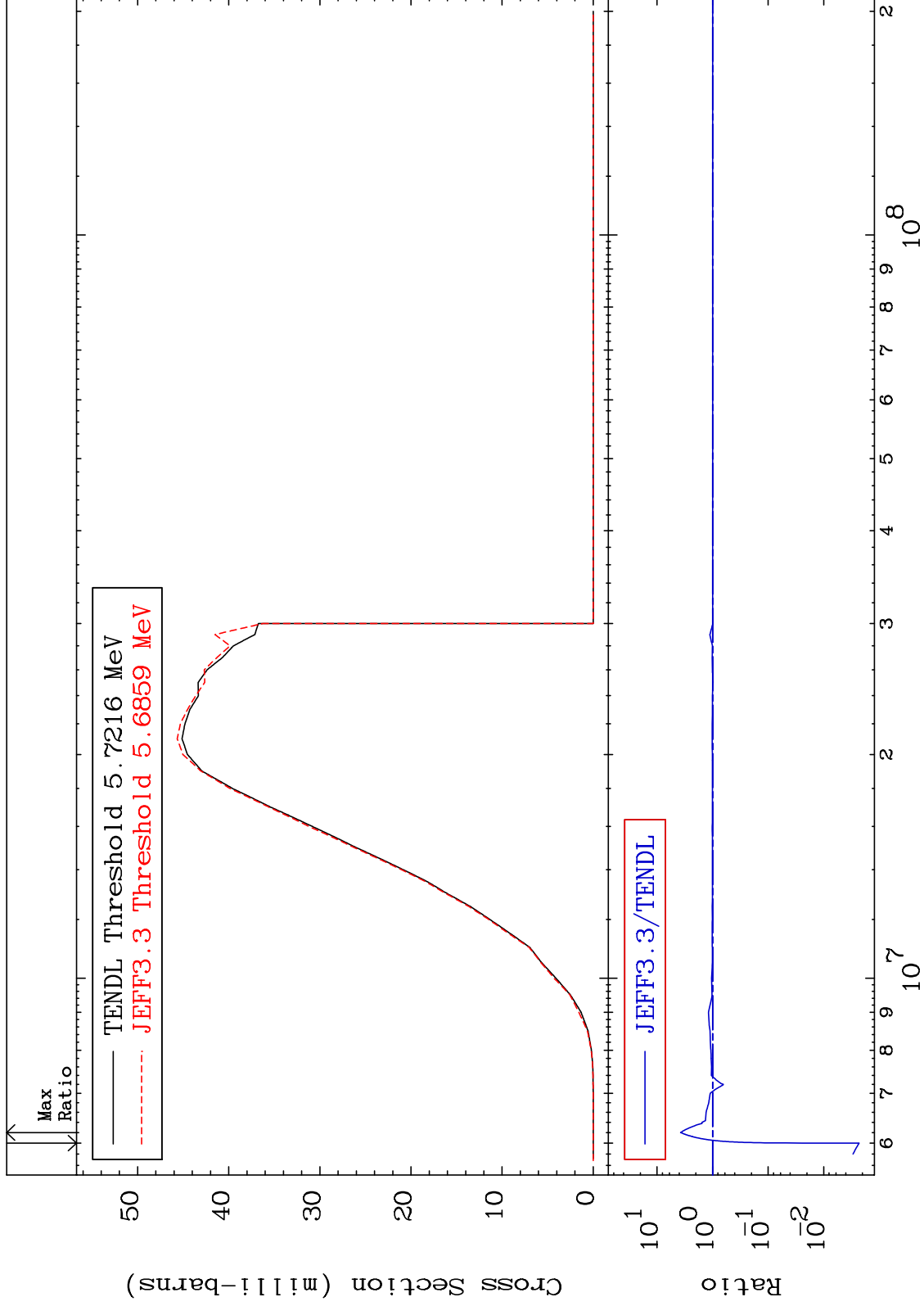
MAT 1931

(n, d)

19-K -41

Cross Section

-99.77 To 276.2 %



52

Incident Energy (eV)

19-K -41

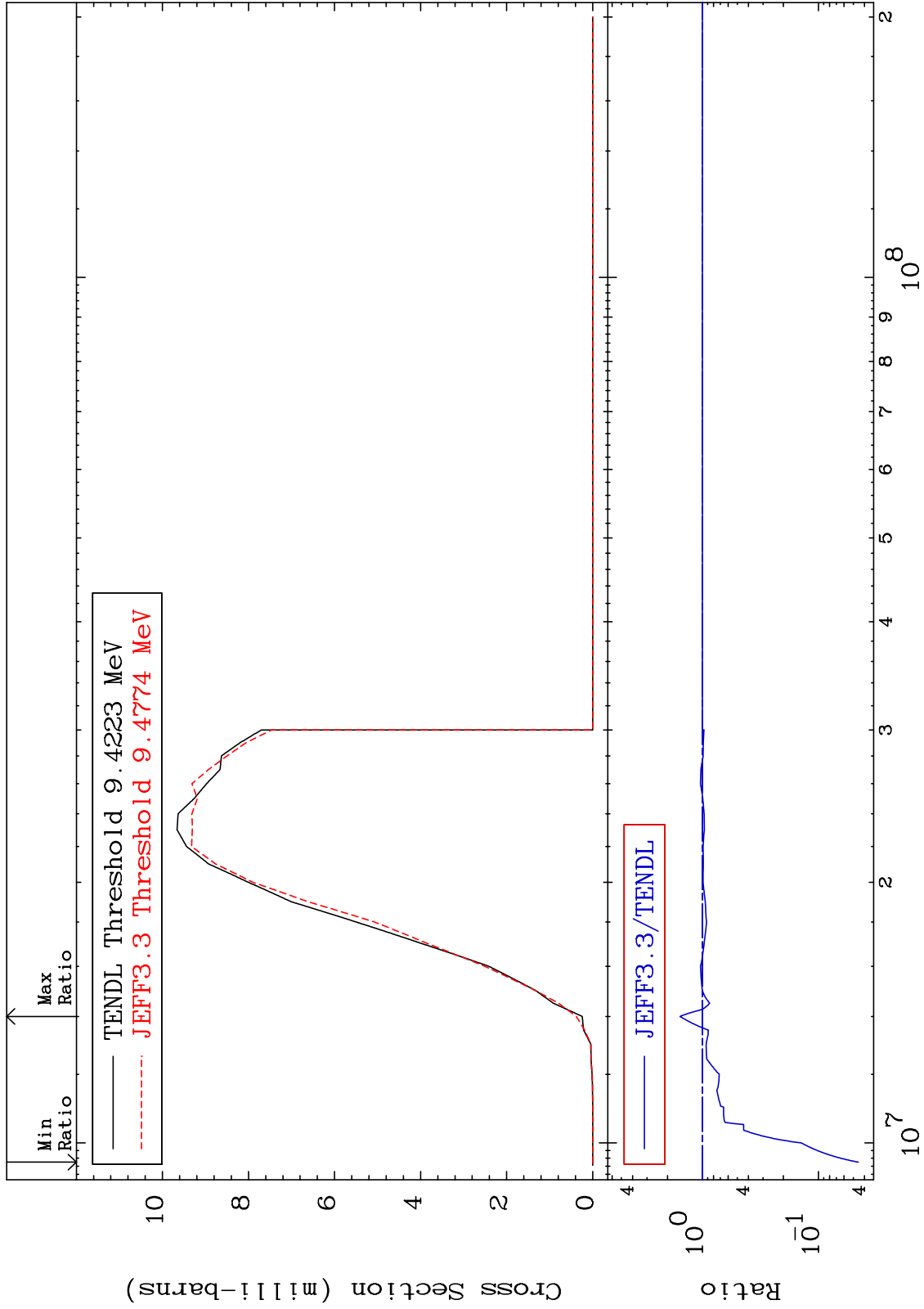
MAT 1931

(n, t)

19-K -41

Cross Section

-95.49 To 55.90 %



53

Incident Energy (eV)

19-K -41

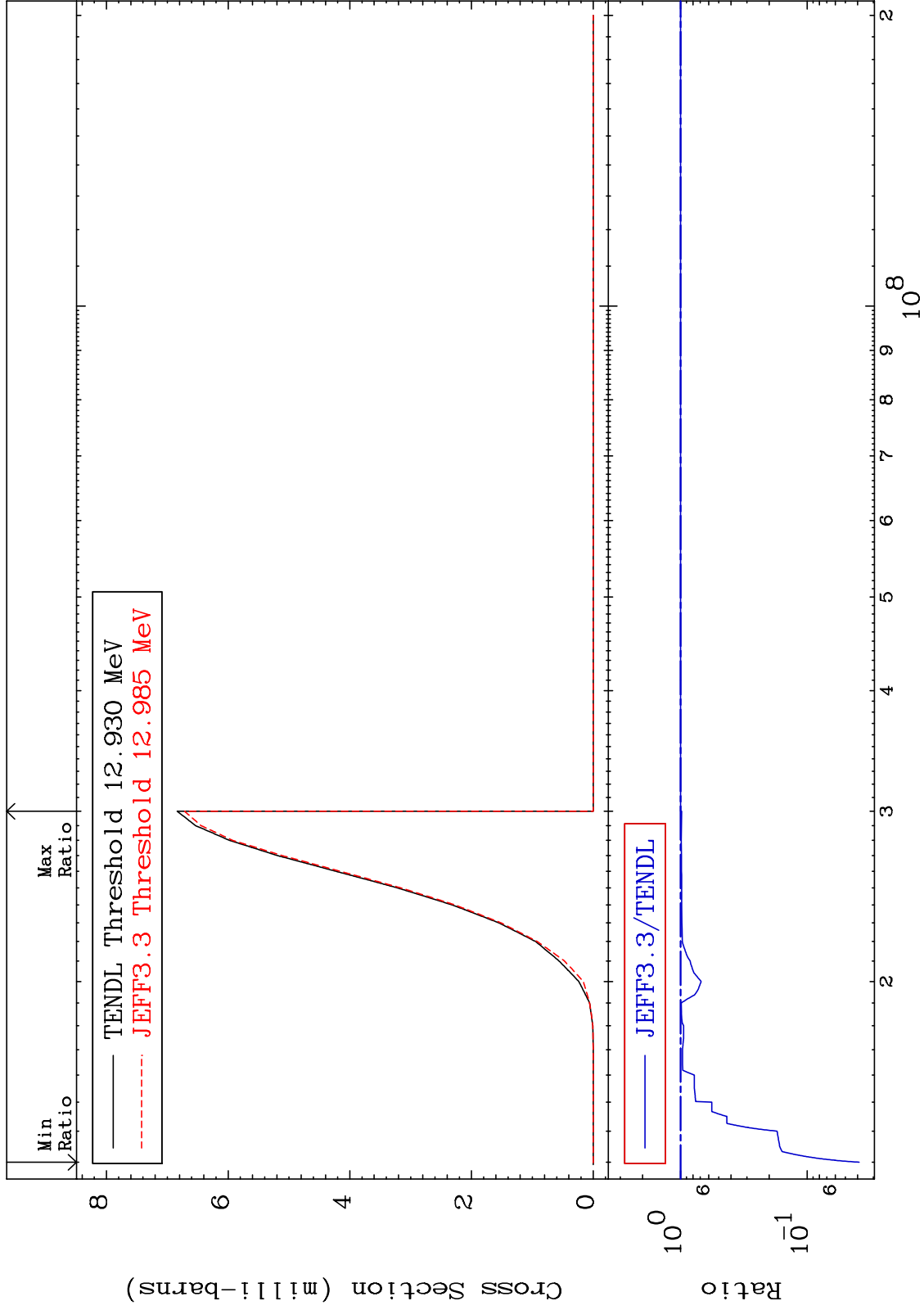
MAT 1931

(n, He-3)

19-K -41

Cross Section

-96.11 To 0.000 %



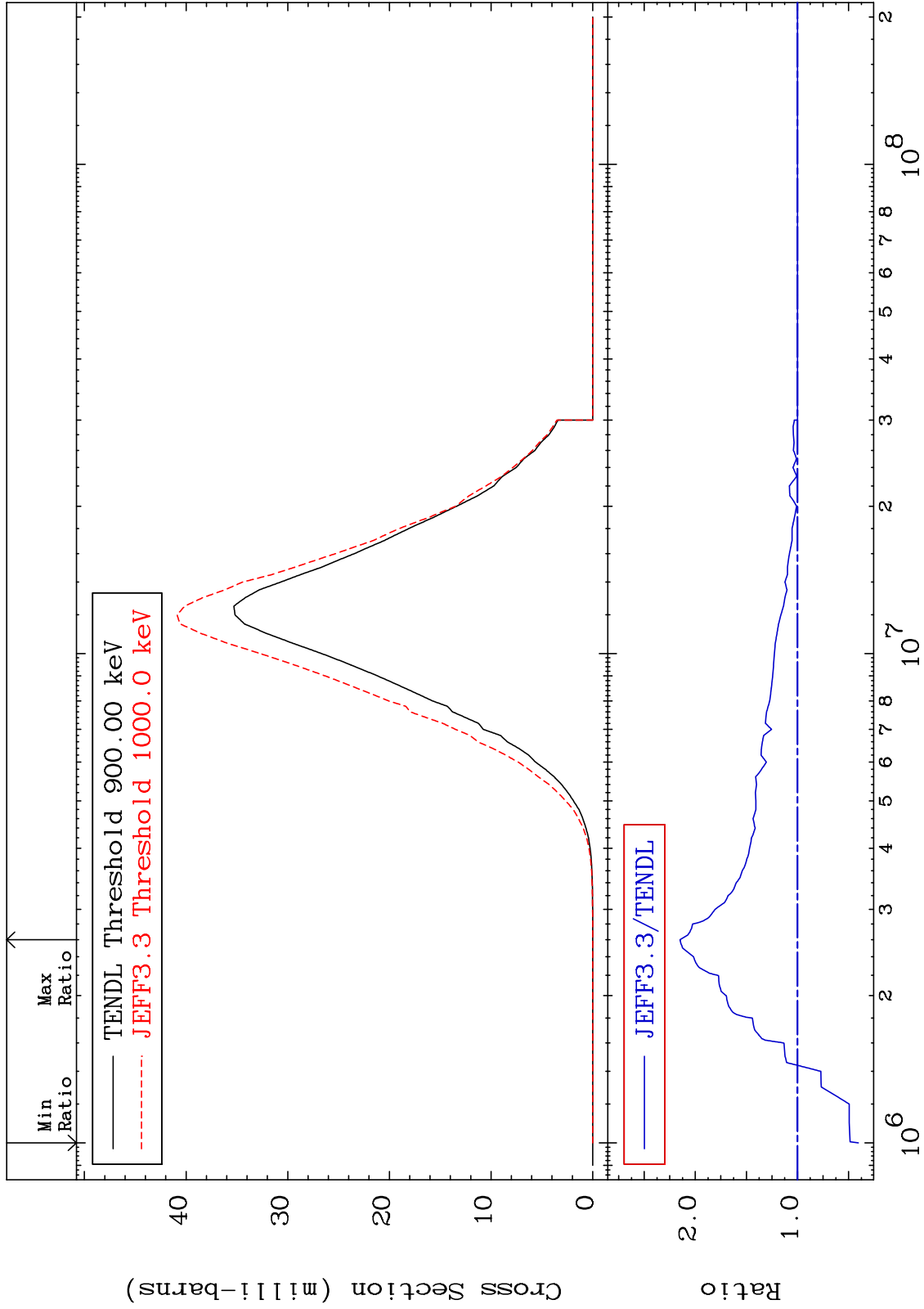
MAT 1931

(n,  $\alpha$ )

19-K -41

Cross Section

-59.62 To 115.0 %



55

19-K -41



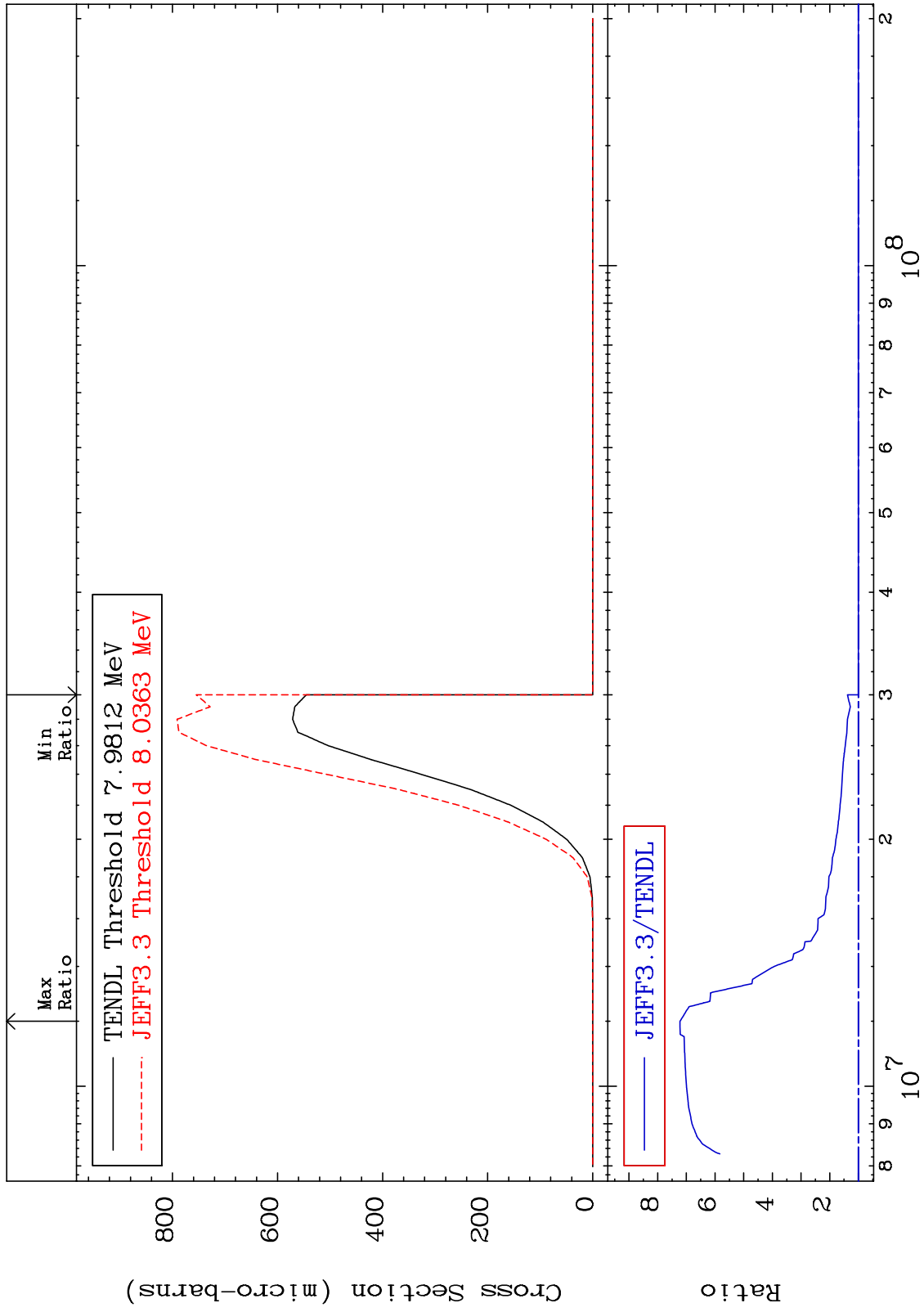
MAT 1931

(n,2α)

19-K -41

0.000 To 622.1 %

Cross Section



56

Incident Energy (eV)

19-K -41

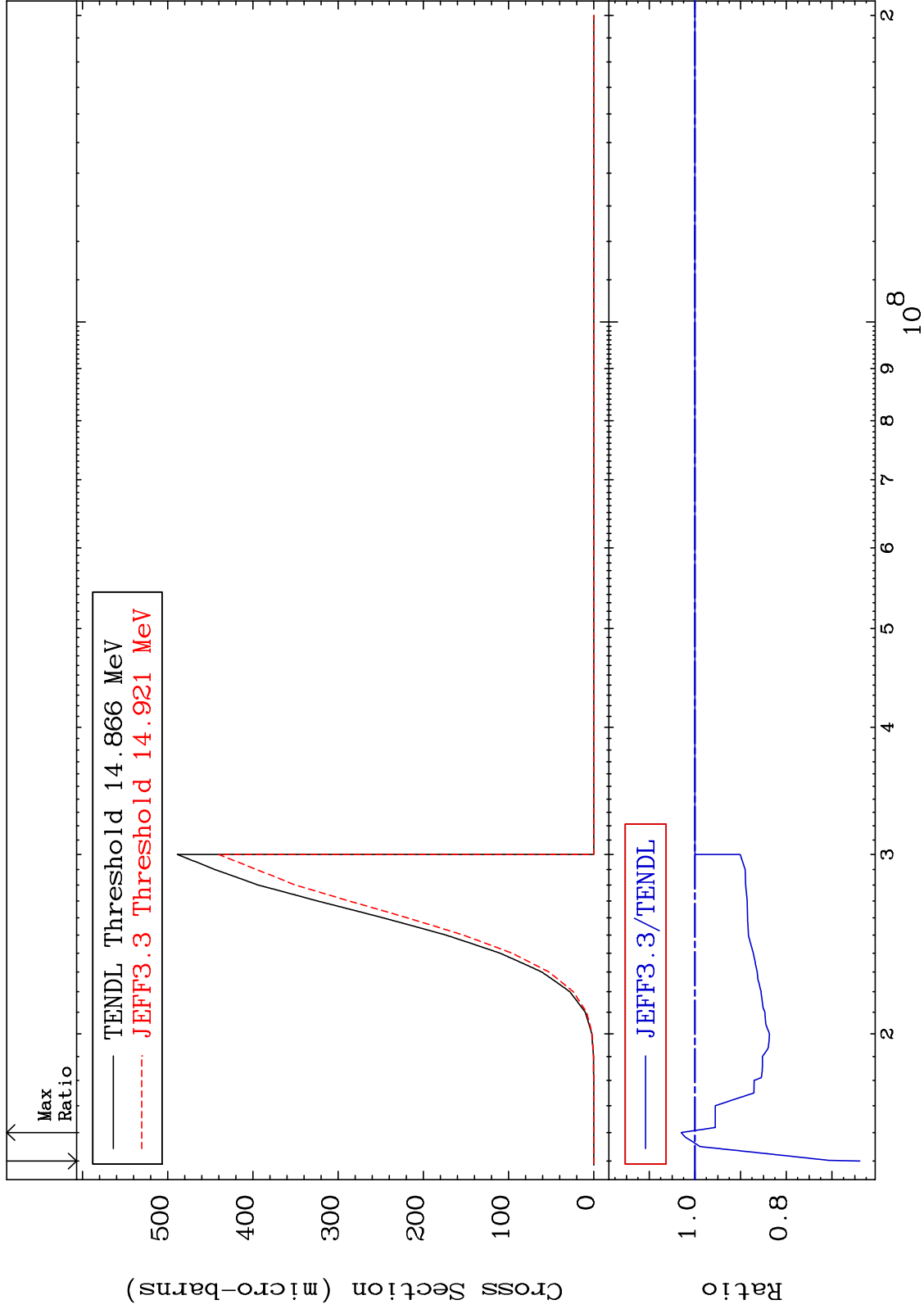
MAT 1931

(n,2p)

19-K -41

Cross Section

-36.12 To 3.004 %



57

Incident Energy (eV)

19-K -41

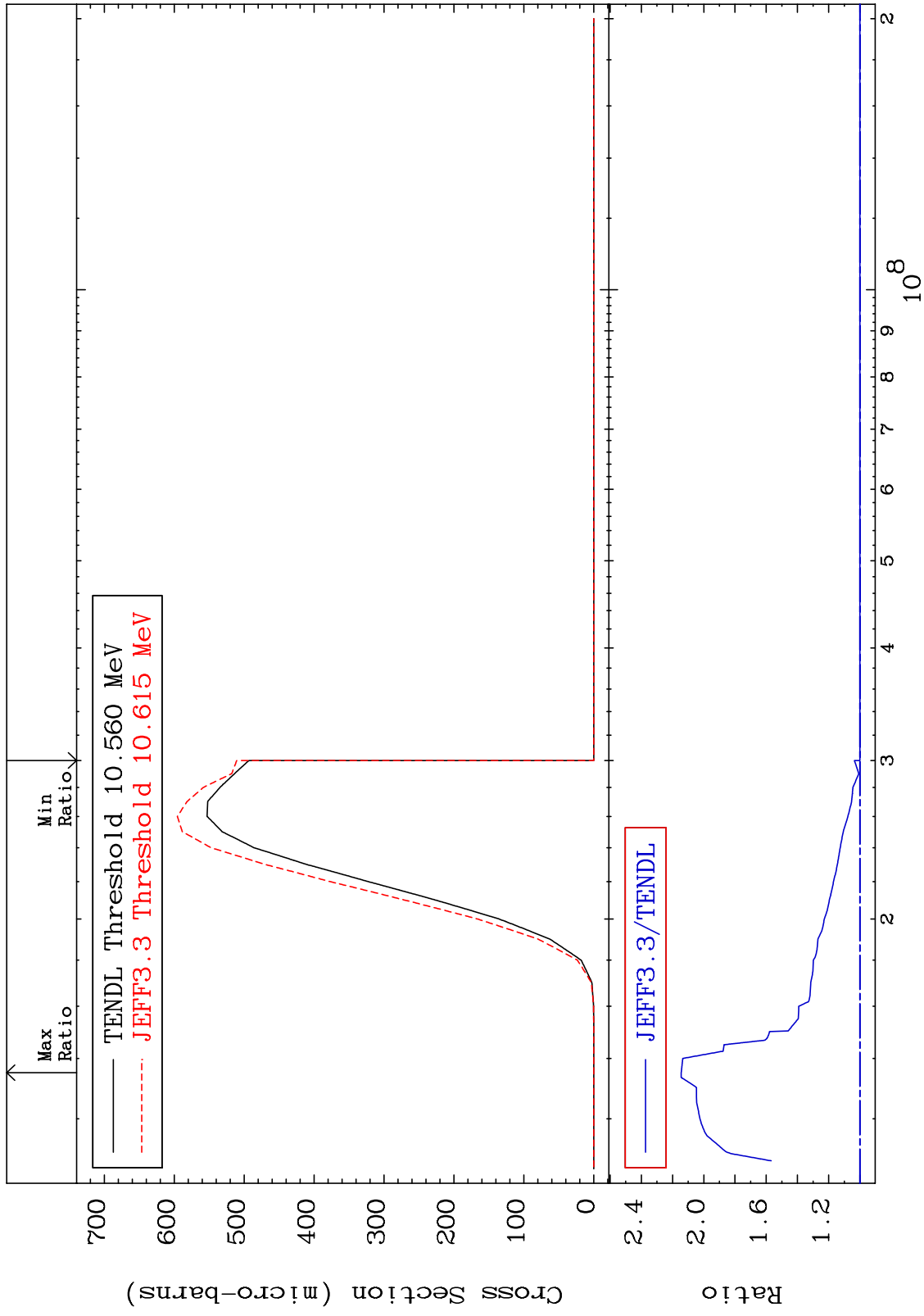
MAT 1931

(n,p)  $\alpha$

Cross Section

19-K -41

0.000 To 114.4 %



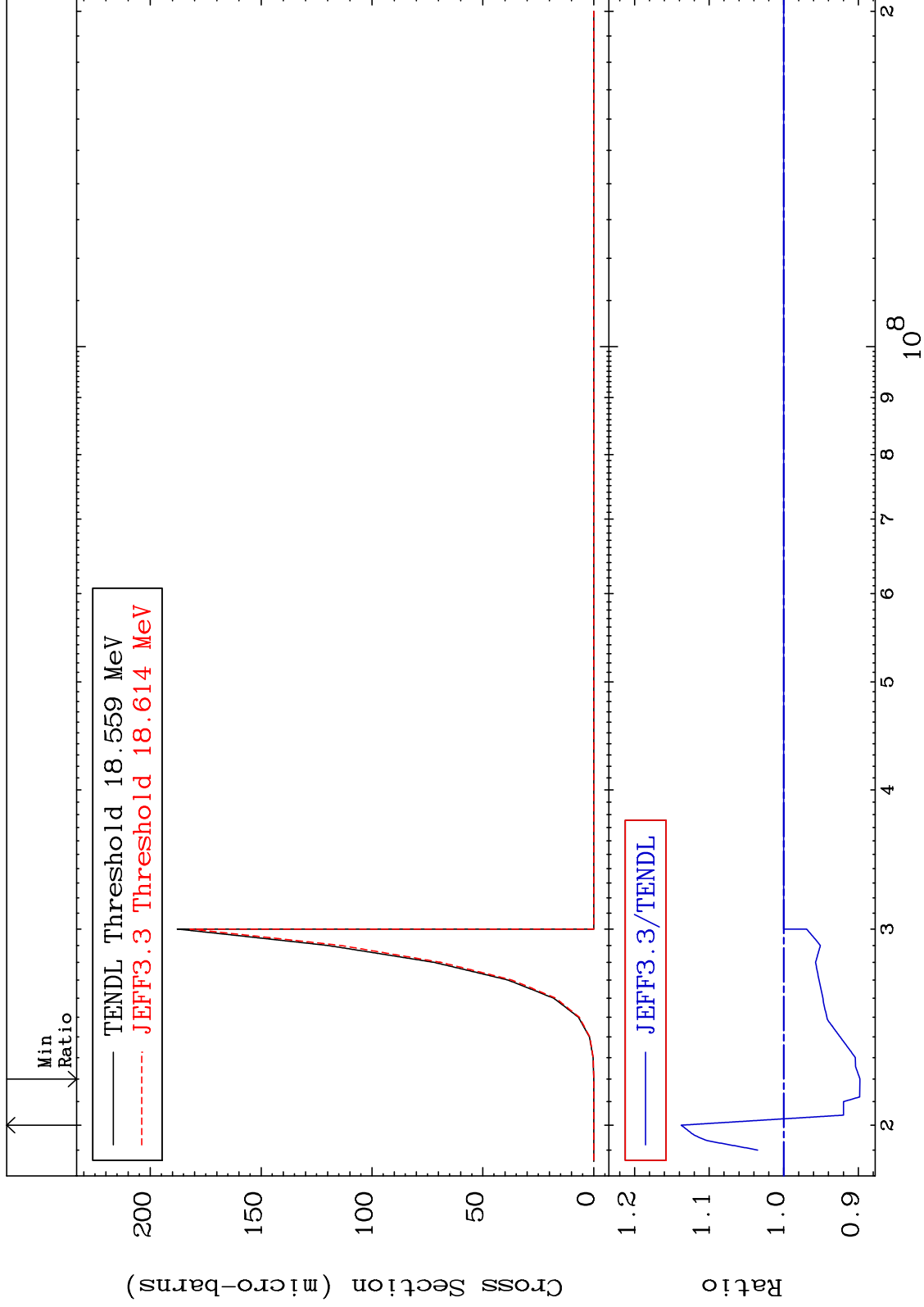
MAT 1931

(n,p) d

19-K -41

Cross Section

-10.22 To 13.75 %



59

Incident Energy (eV)

19-K -41

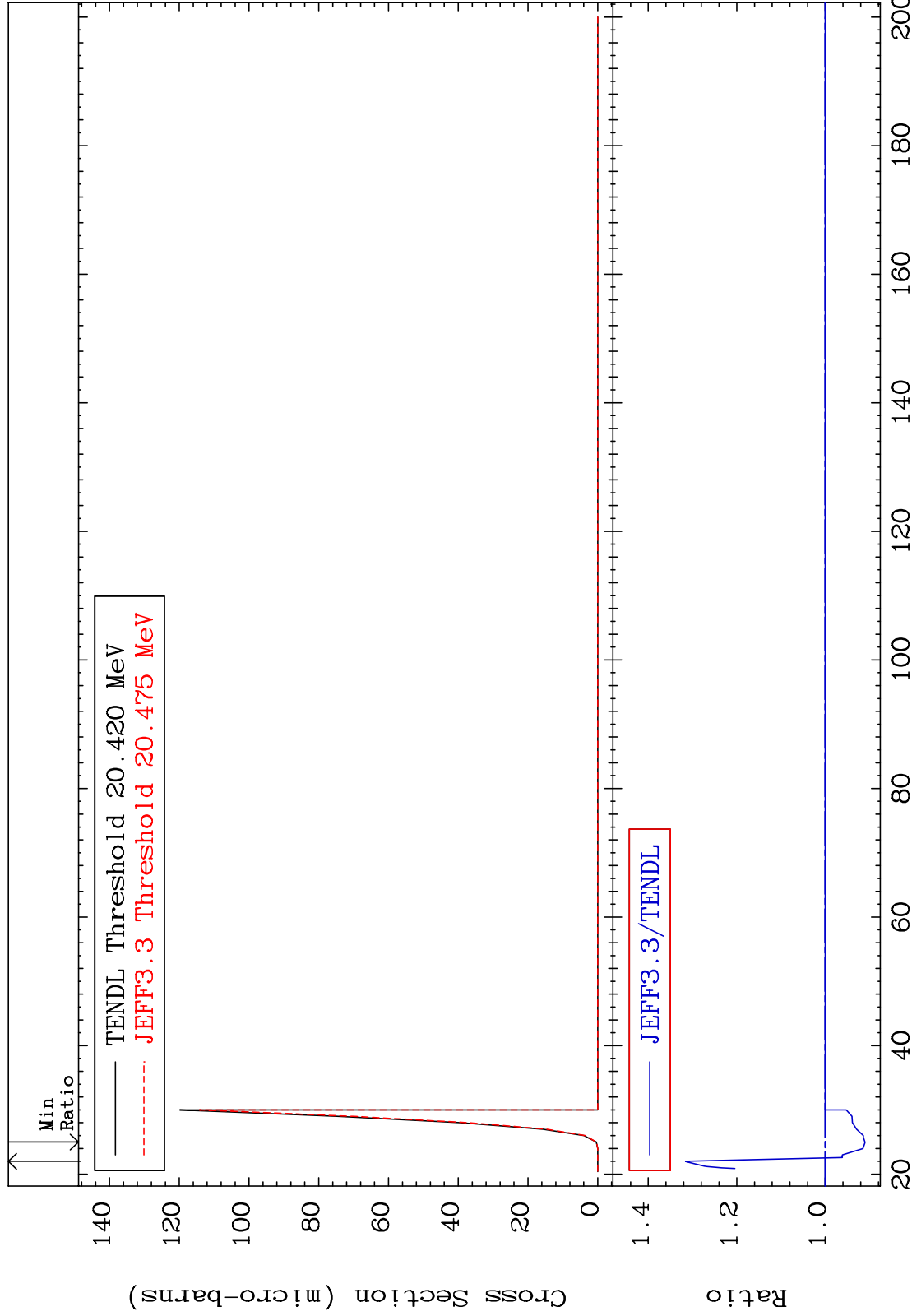
MAT 1931

(n,p) t

19-K -41

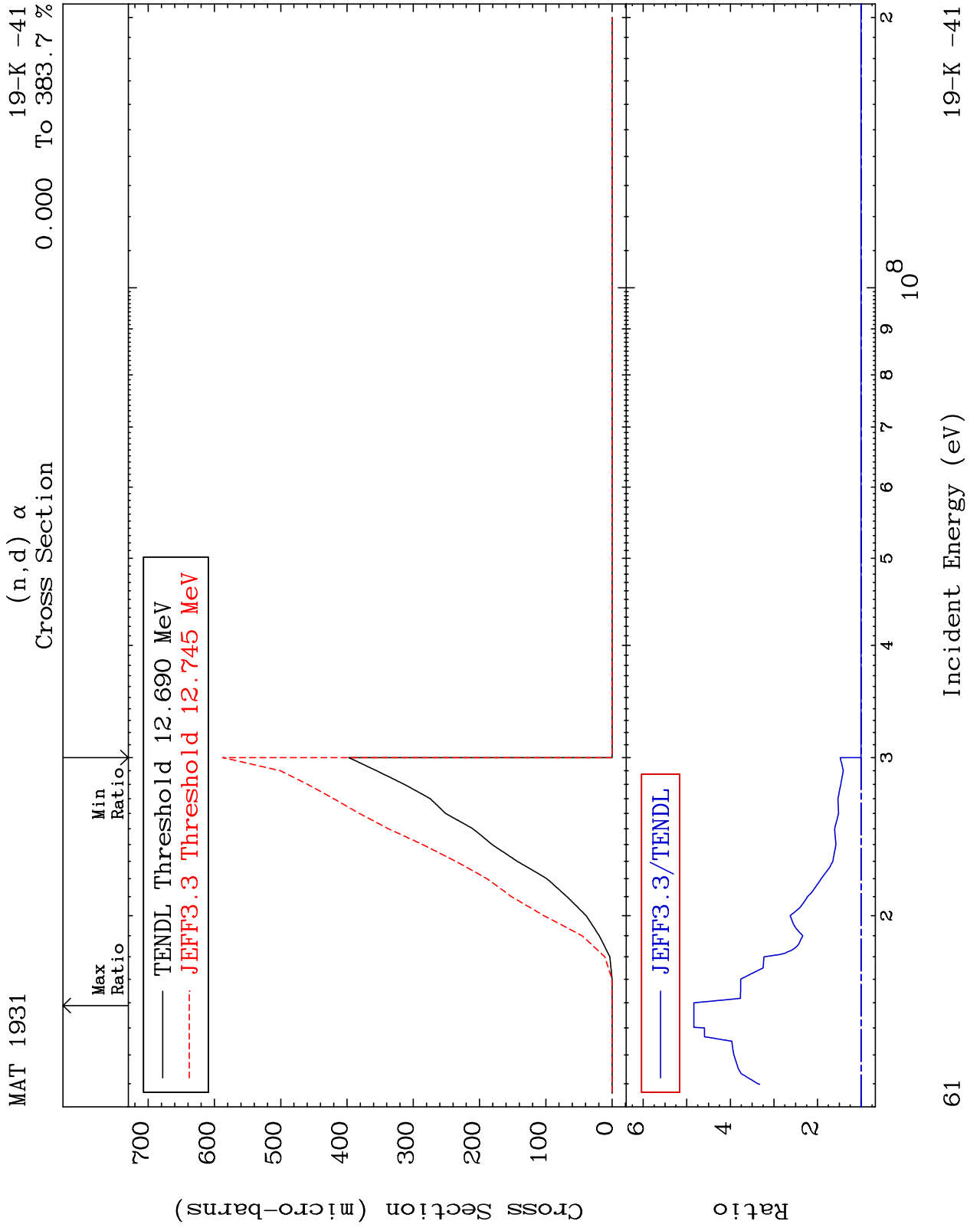
Cross Section

-8.958 To 31.57 %



Incident Energy (MeV)

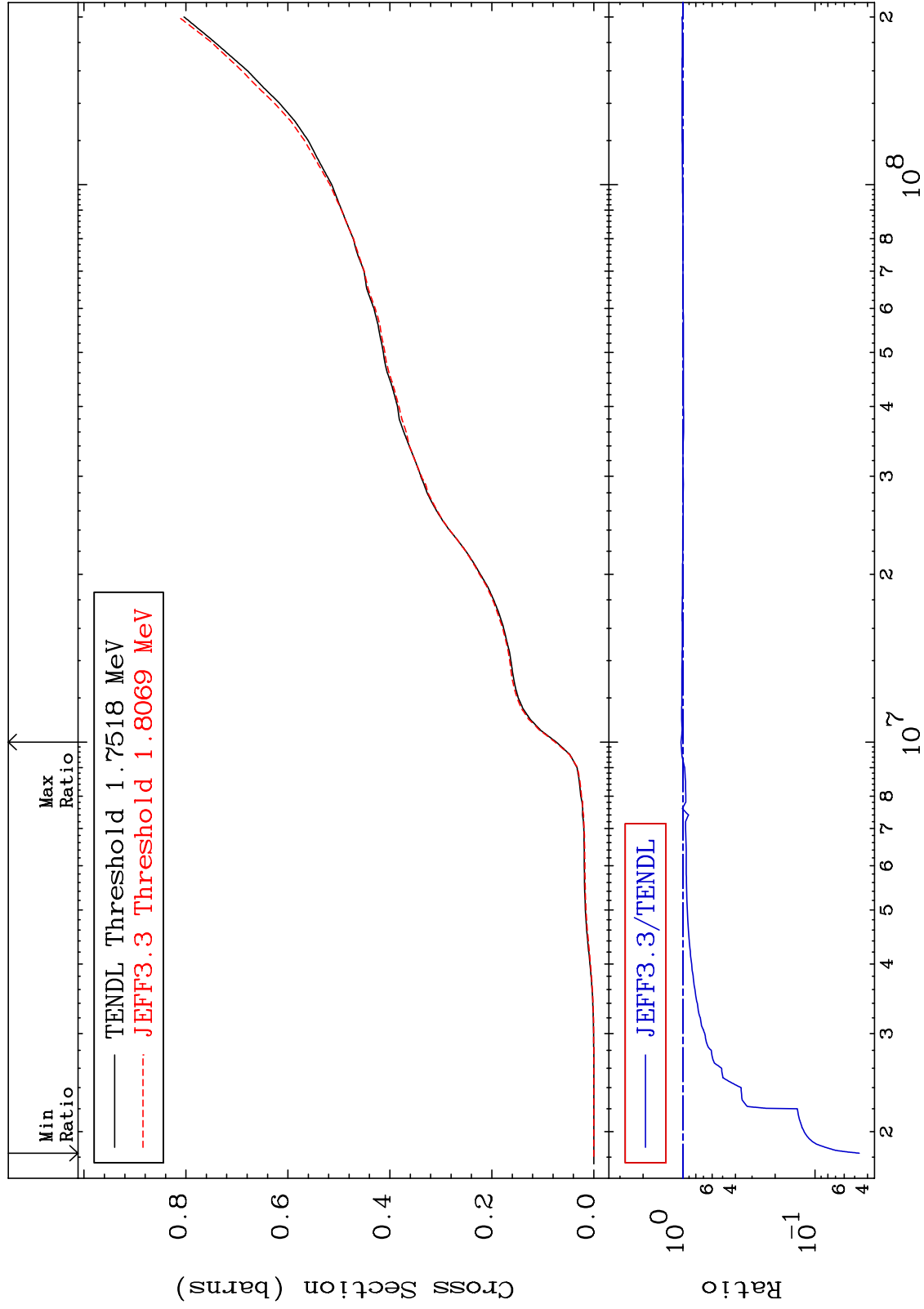
19-K -41



MAT 1931

Hydrogen Production  
Cross Section

19-K -41  
-95.38 To 3.276 %



62

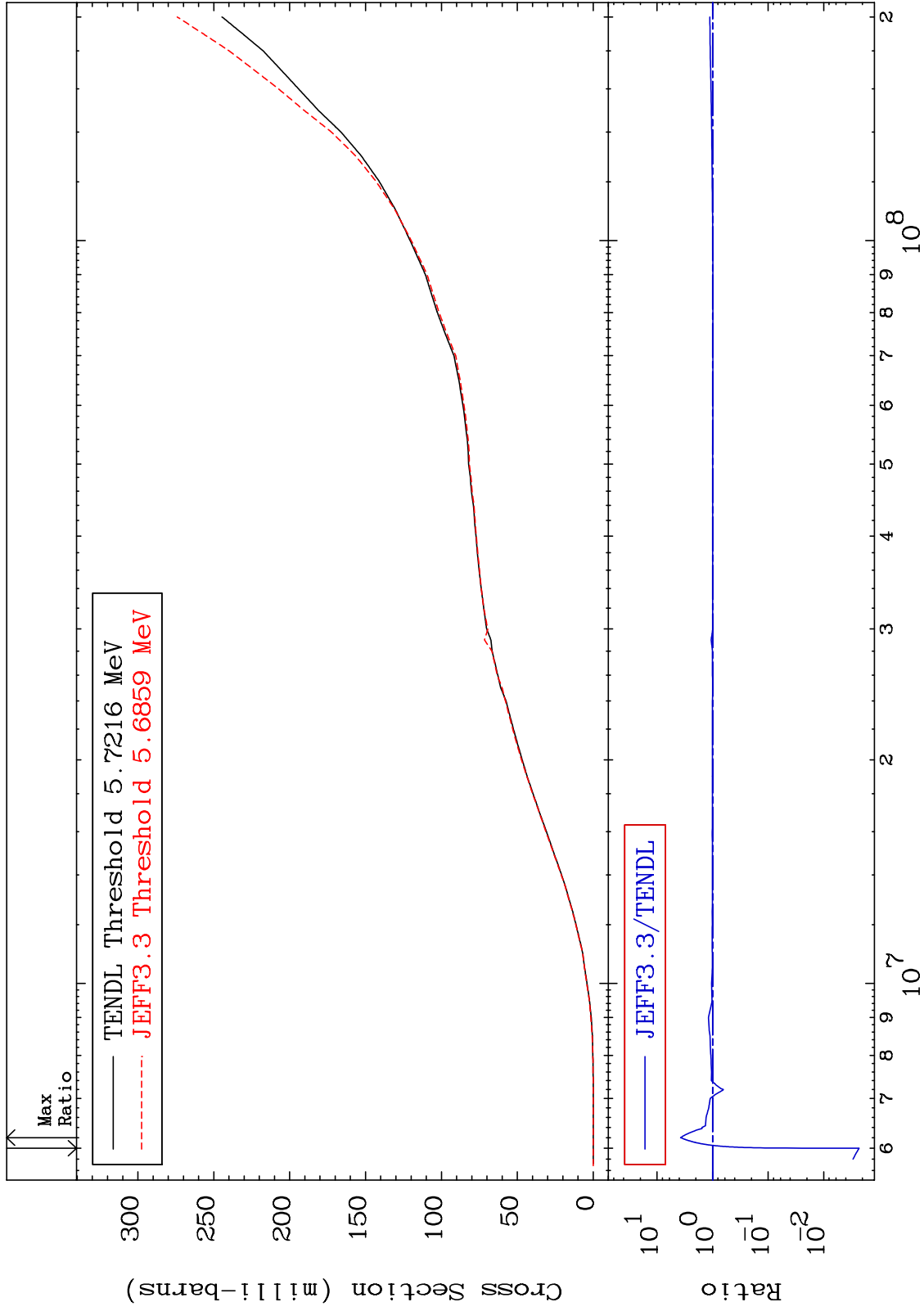
Incident Energy (eV)

19-K -41

MAT 1931

Deuterium Production  
Cross Section

19-K -41  
-99.77 To 276.2 %



63

Incident Energy (eV)

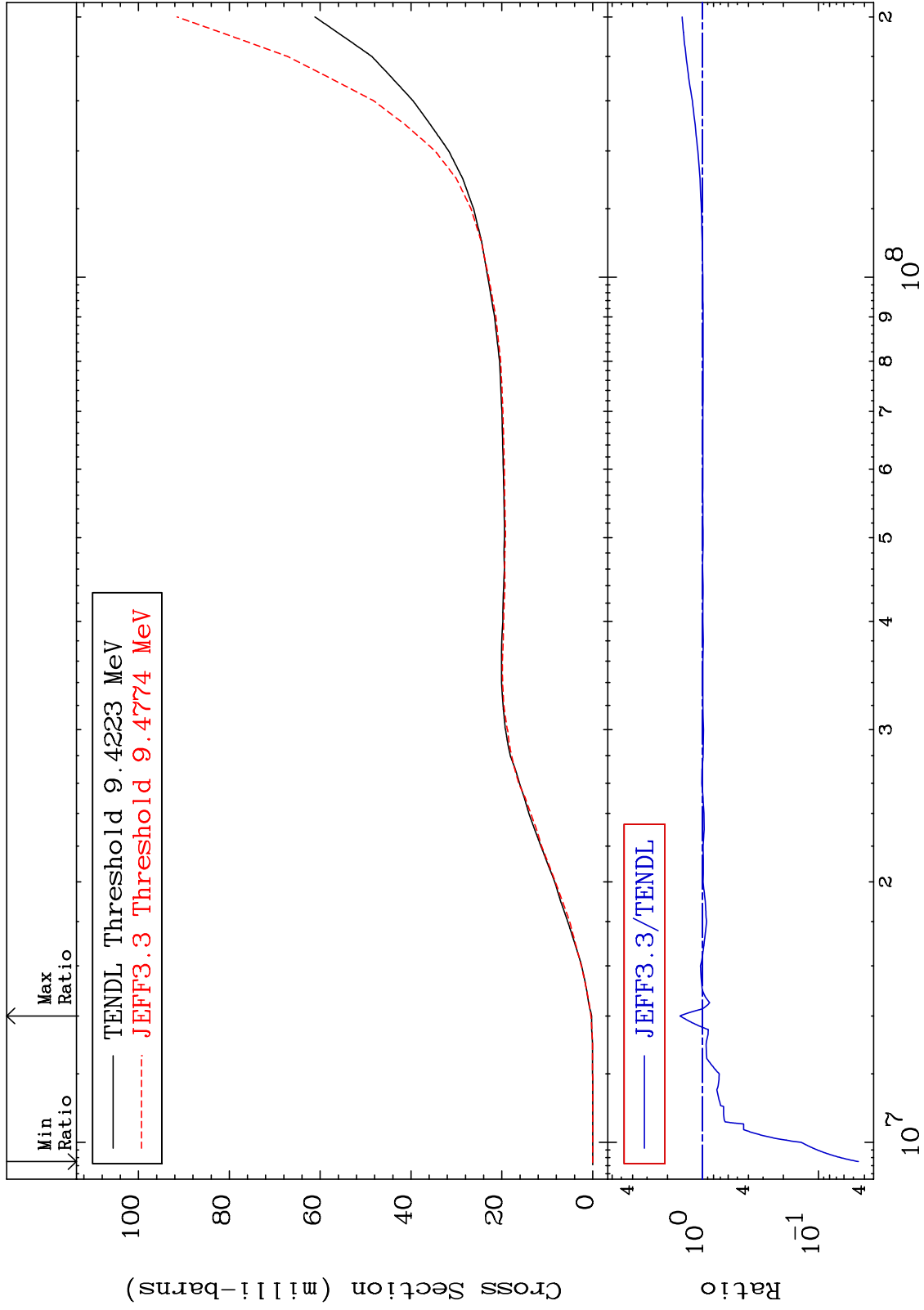
19-K -41



MAT 1931

Tritium Production  
Cross Section

19-K -41  
-95.49 To 55.90 %



64

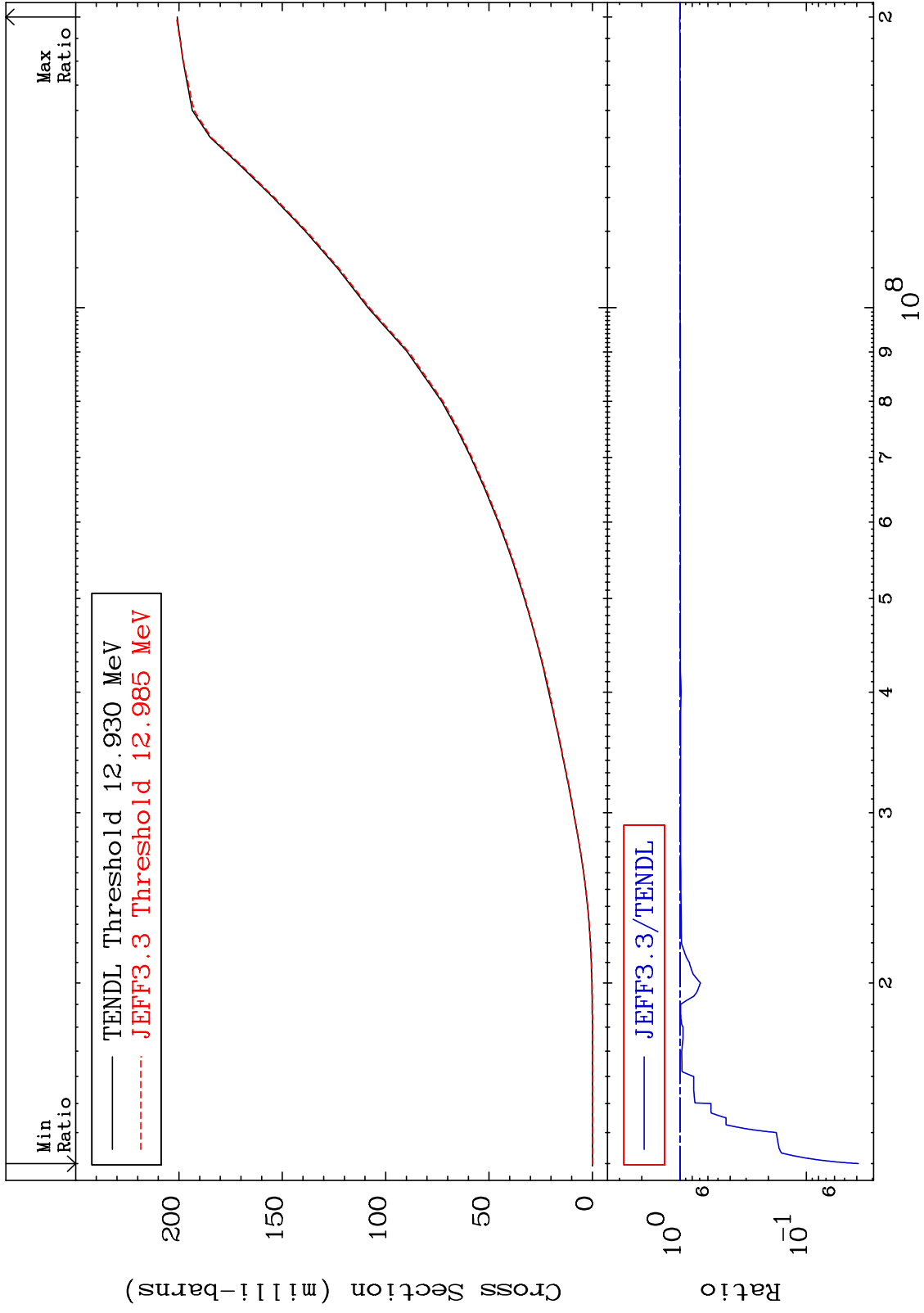
Incident Energy (eV)

19-K -41

MAT 1931

He-3 Production  
Cross Section

19-K -41  
-96.11 To 0.185 %



65

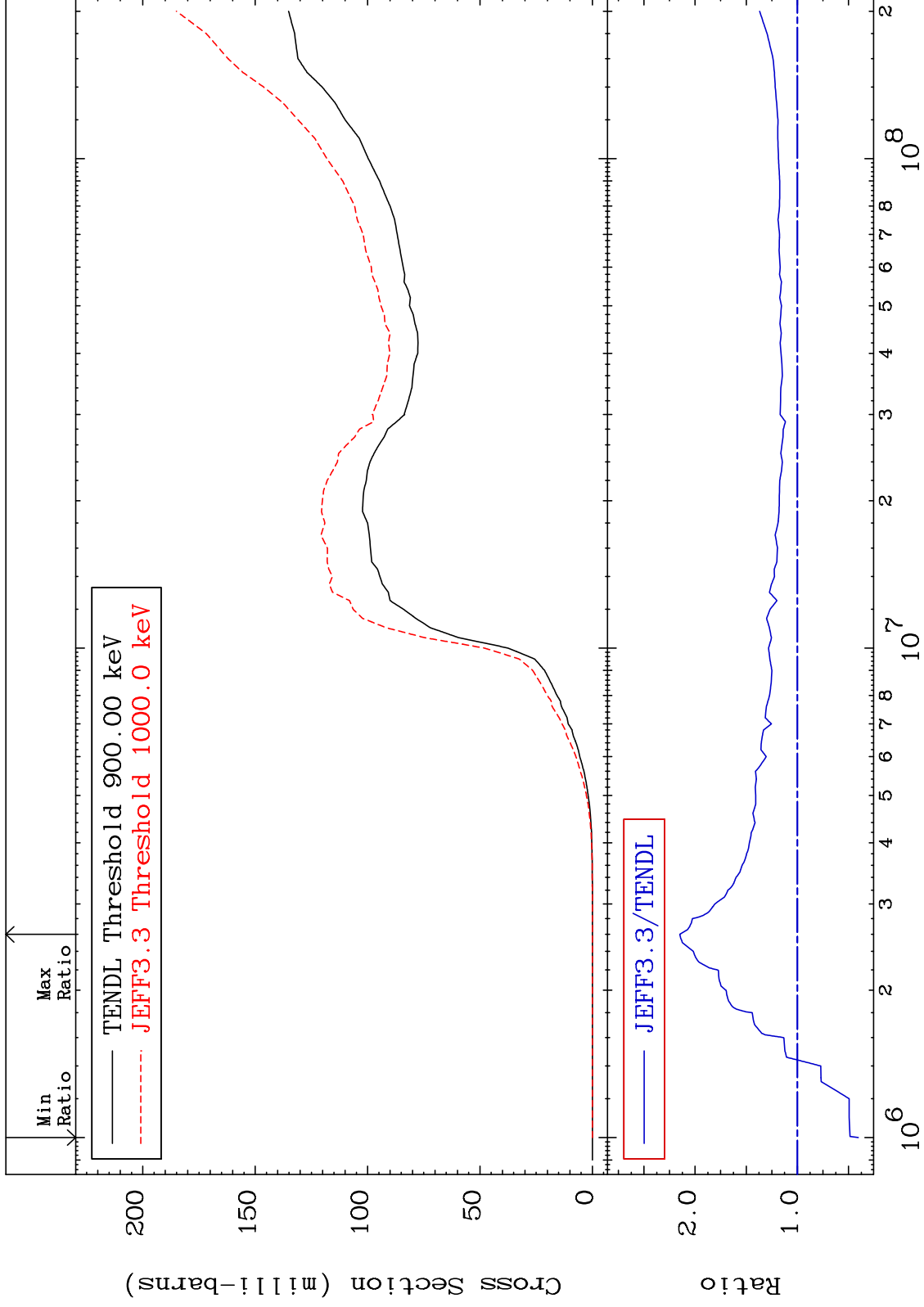
Incident Energy (eV)

19-K -41

MAT 1931

He-4 Production  
Cross Section

19-K -41  
-59.62 To 115.0 %



66

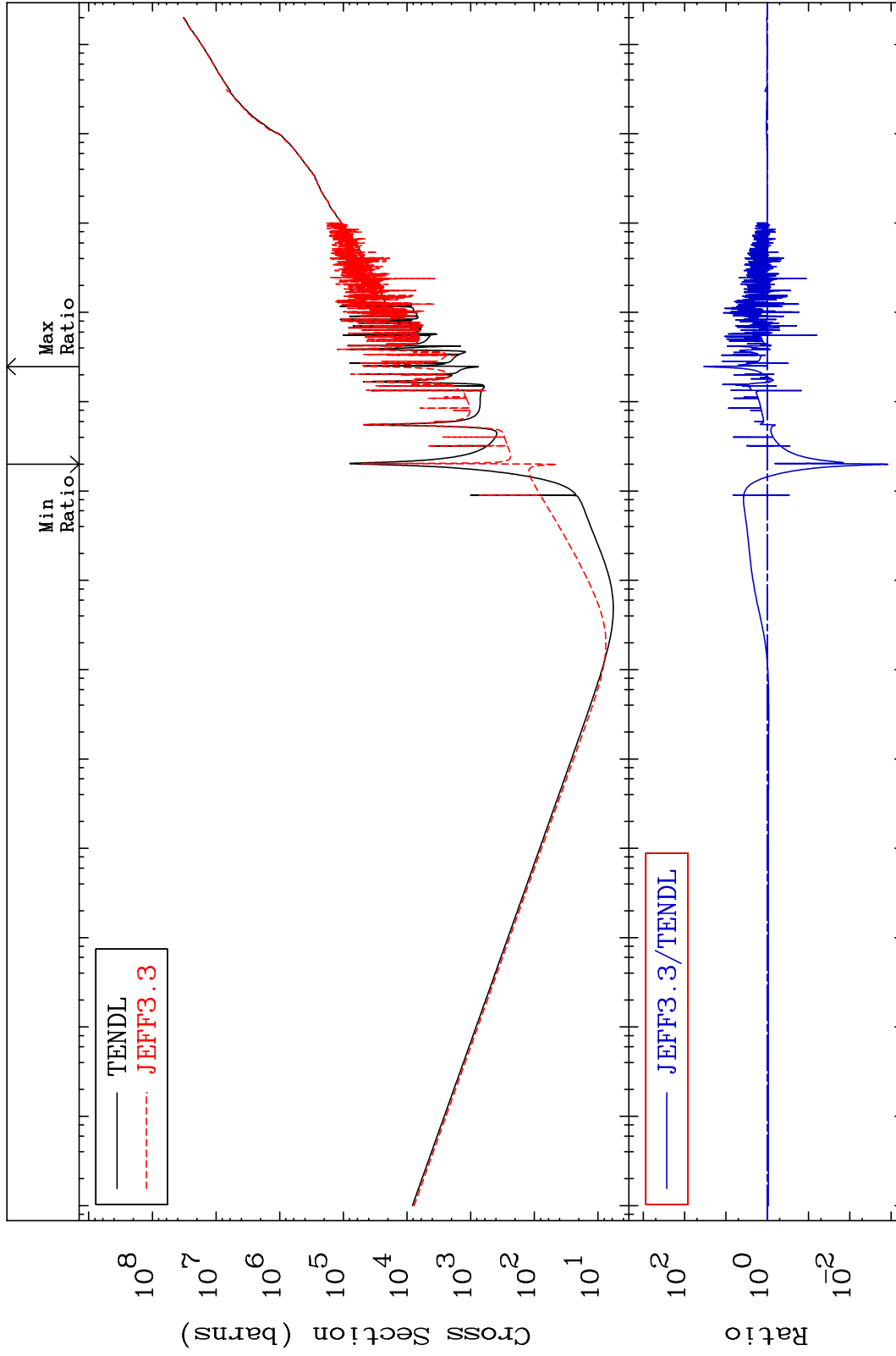
Incident Energy (eV)

19-K -41

MAT 1931

Kerma total (eV-barns)  
Cross Section

19-K -41  
-99.88 To 3357. %



Ratio

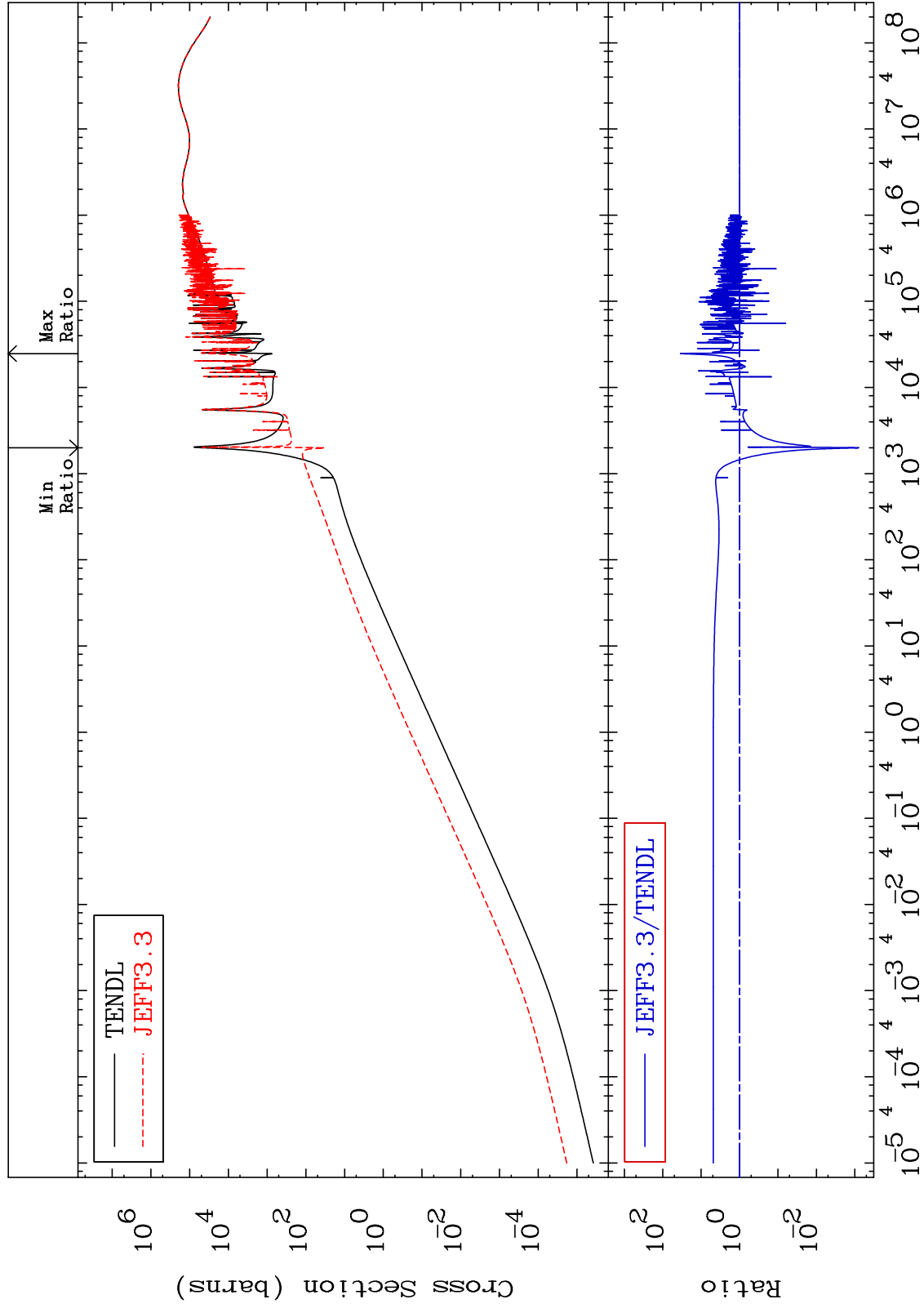
Incident Energy (eV)

19-K -41

MAT 1931

Kerma elastic  
Cross Section

19-K -41  
-99.92 To 3363. %



68

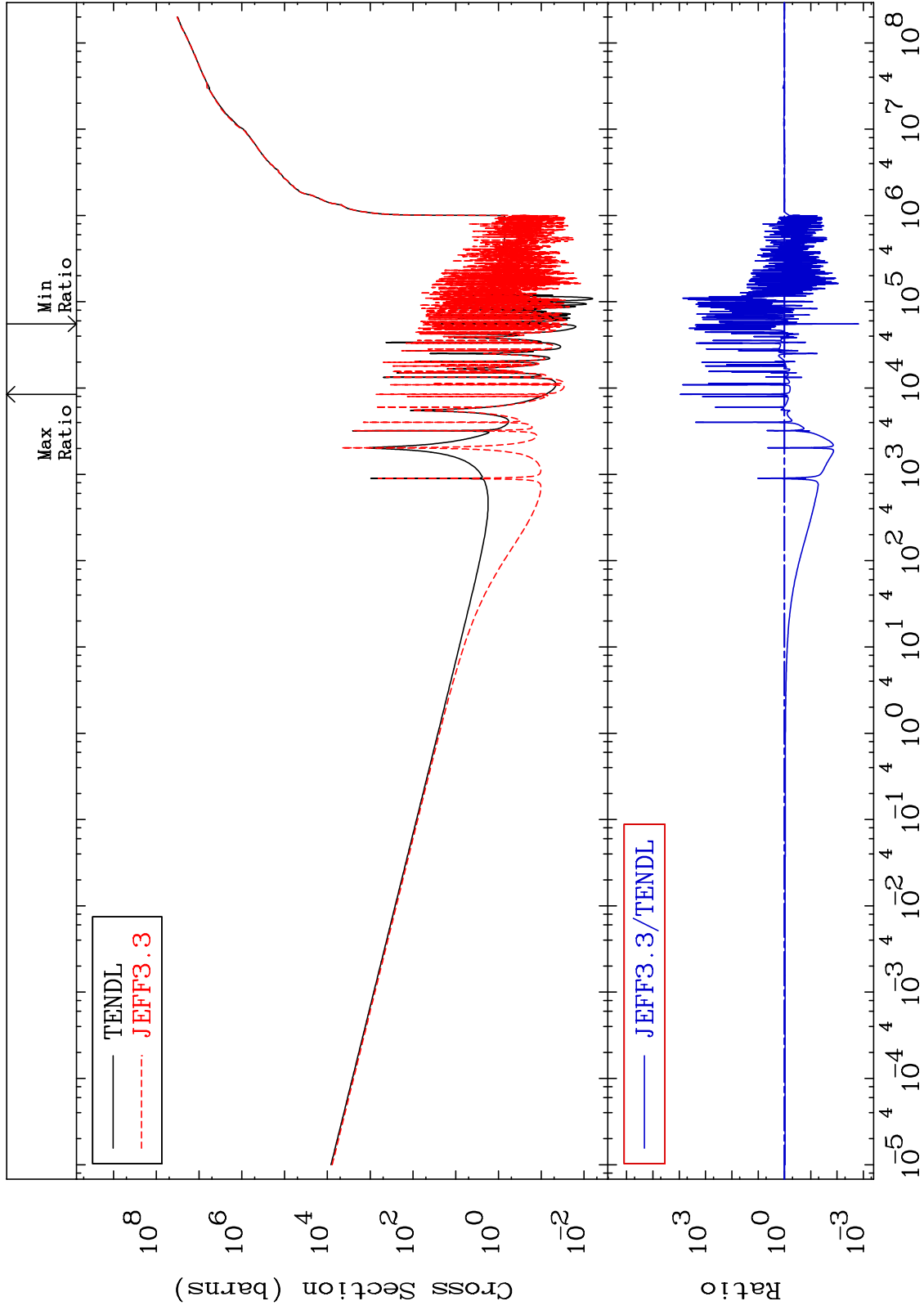
Incident Energy (eV)

19-K -41

MAT 1931

Kerma non-elastic (all but mt2)  
Cross Section

19-K -41  
-99.85 To 9999. %



69

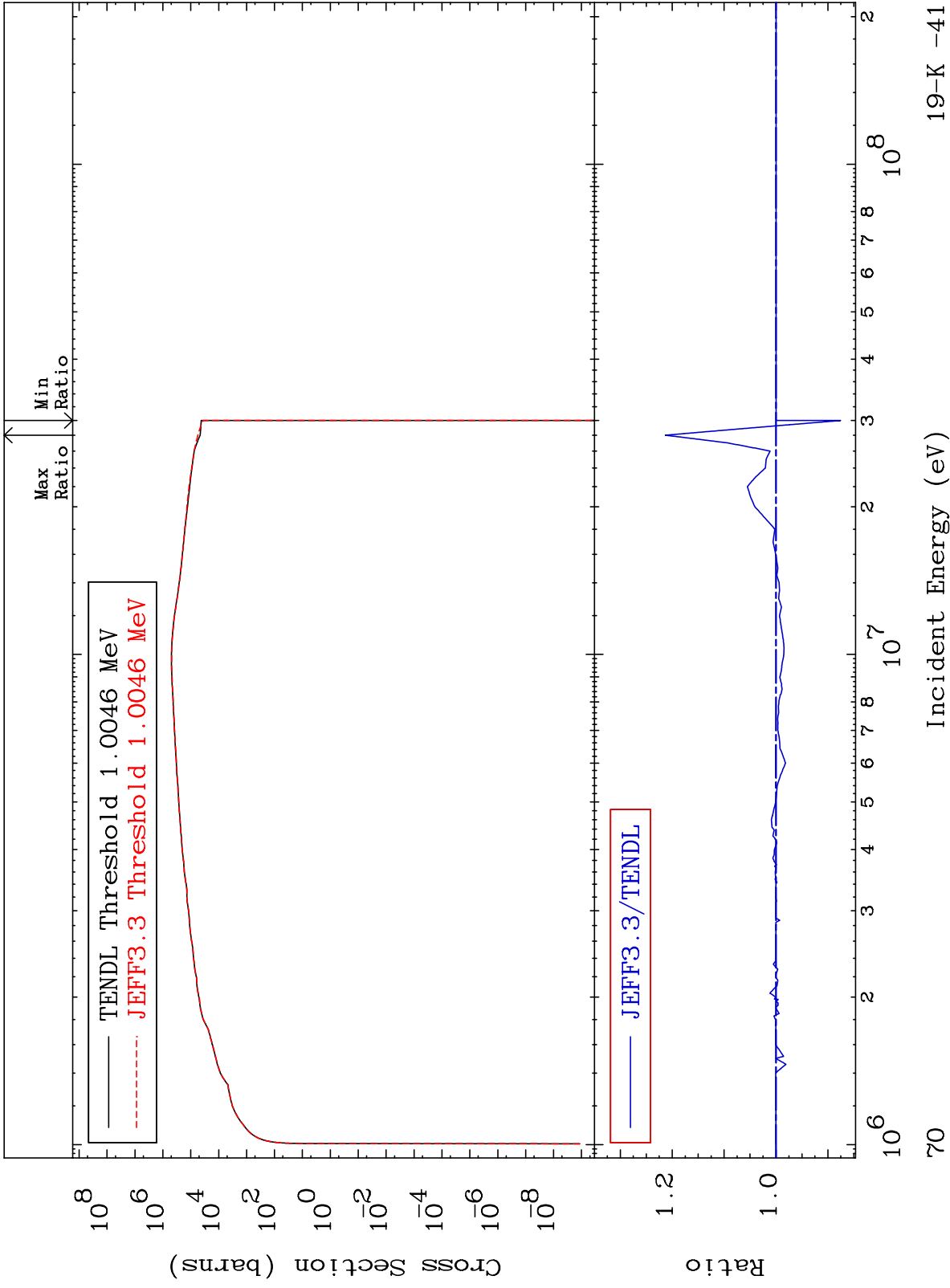
Incident Energy (eV)

19-K -41

MAT 1931

Kerma inelastic (mt51-91)  
Cross Section

19-K -41  
-12.45 To 21.31 %



19-K -41

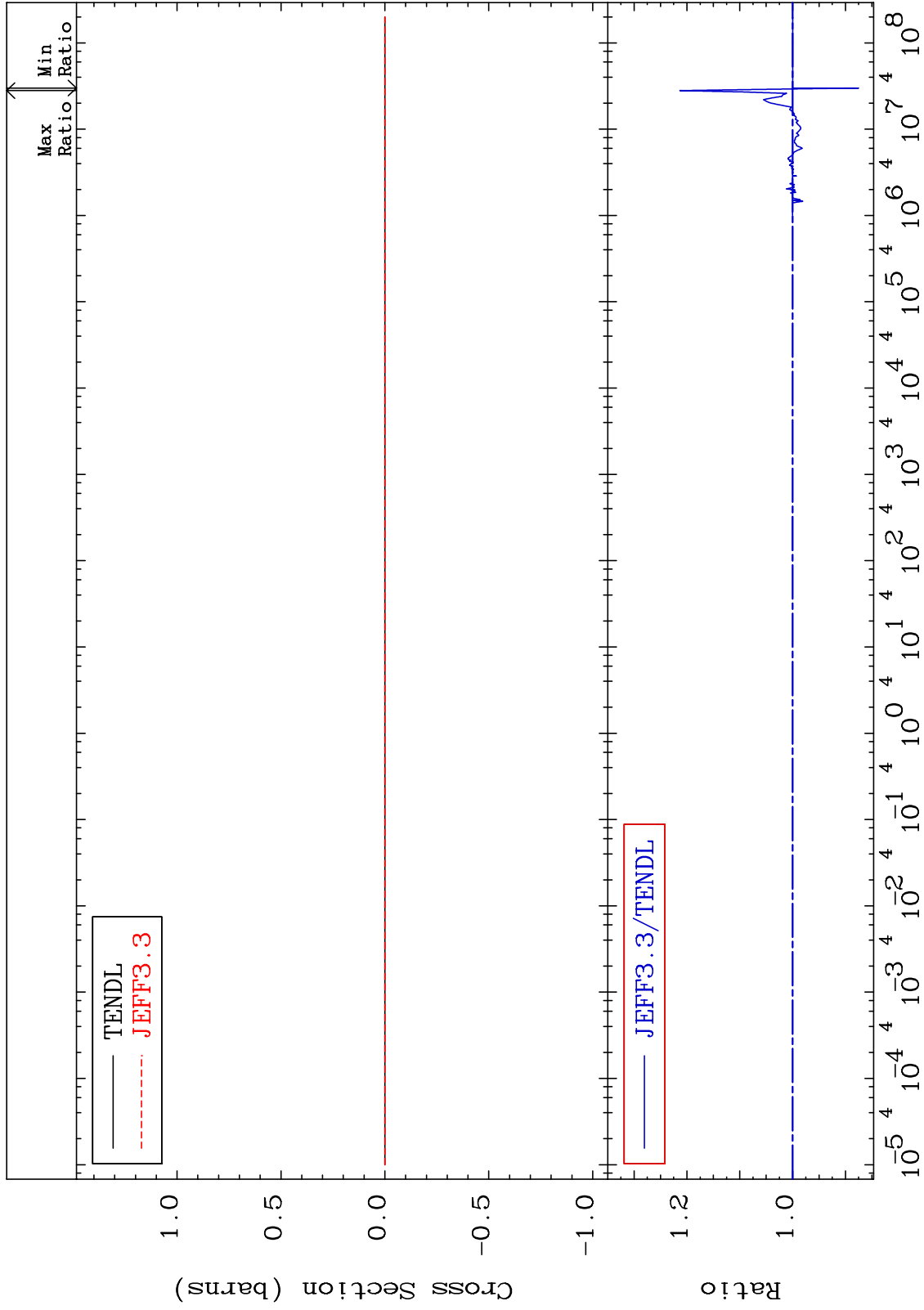
Incident Energy (eV)

70

MAT 1931

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

19-K -41  
-12.45 To 21.31 %



71

Incident Energy (eV)

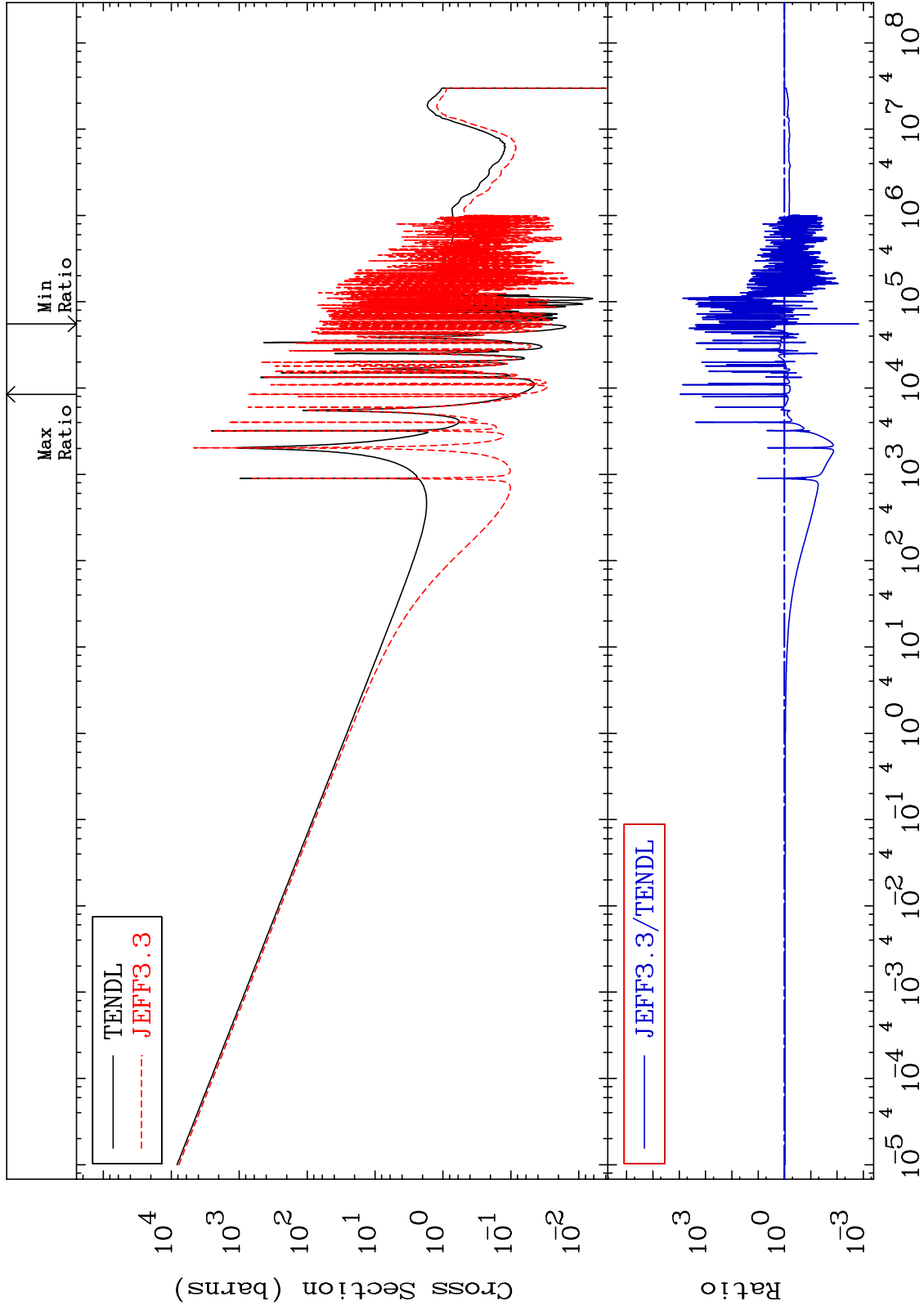
19-K -41



MAT 1931

Kerma capture (mt102)  
Cross Section

19-K -41  
-99.85 To 9999. %



72

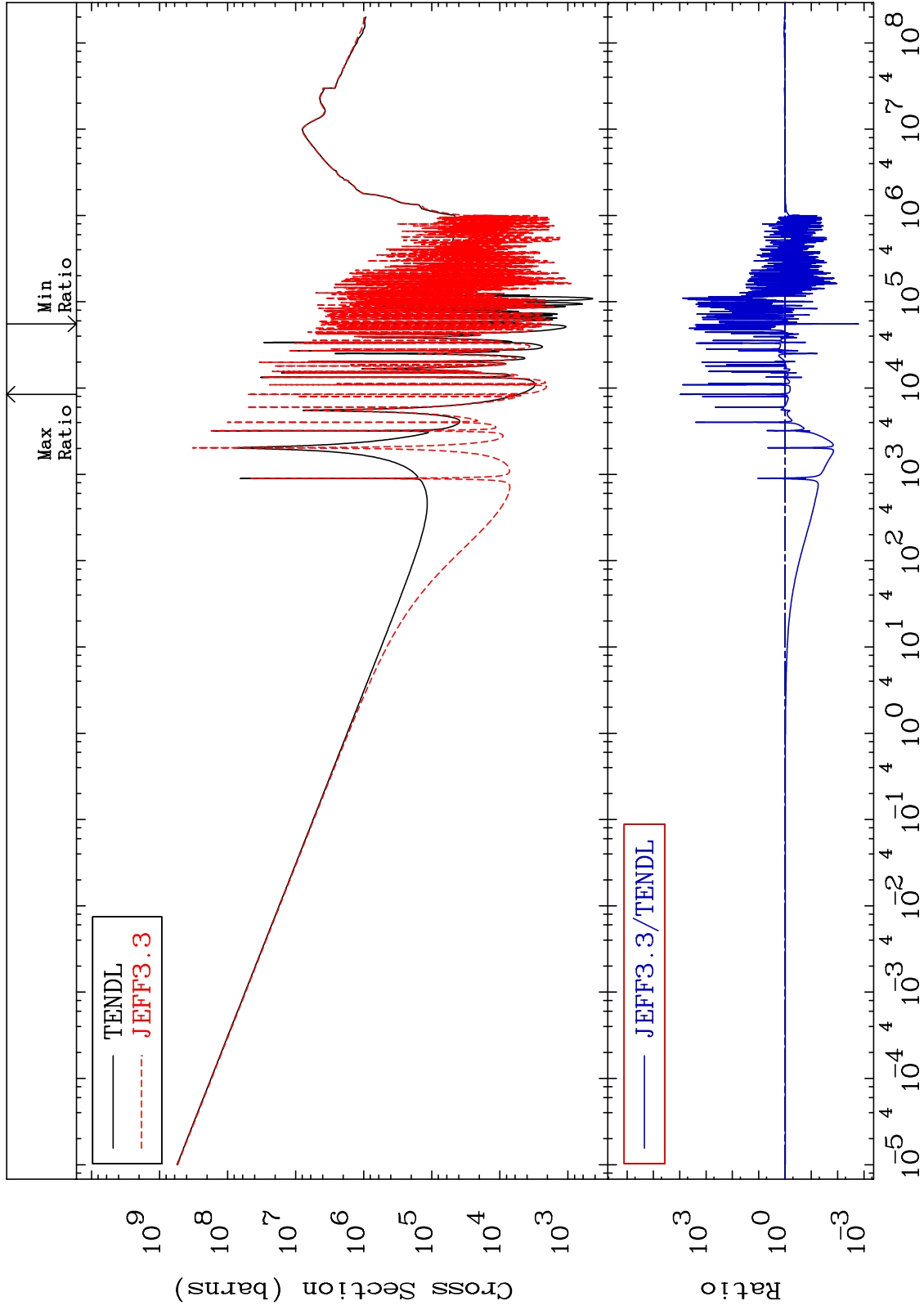
Incident Energy (eV)

19-K -41

MAT 1931

Total photon (eV-barns)  
Cross Section

19-K -41  
-99.84 To 9999. %



73

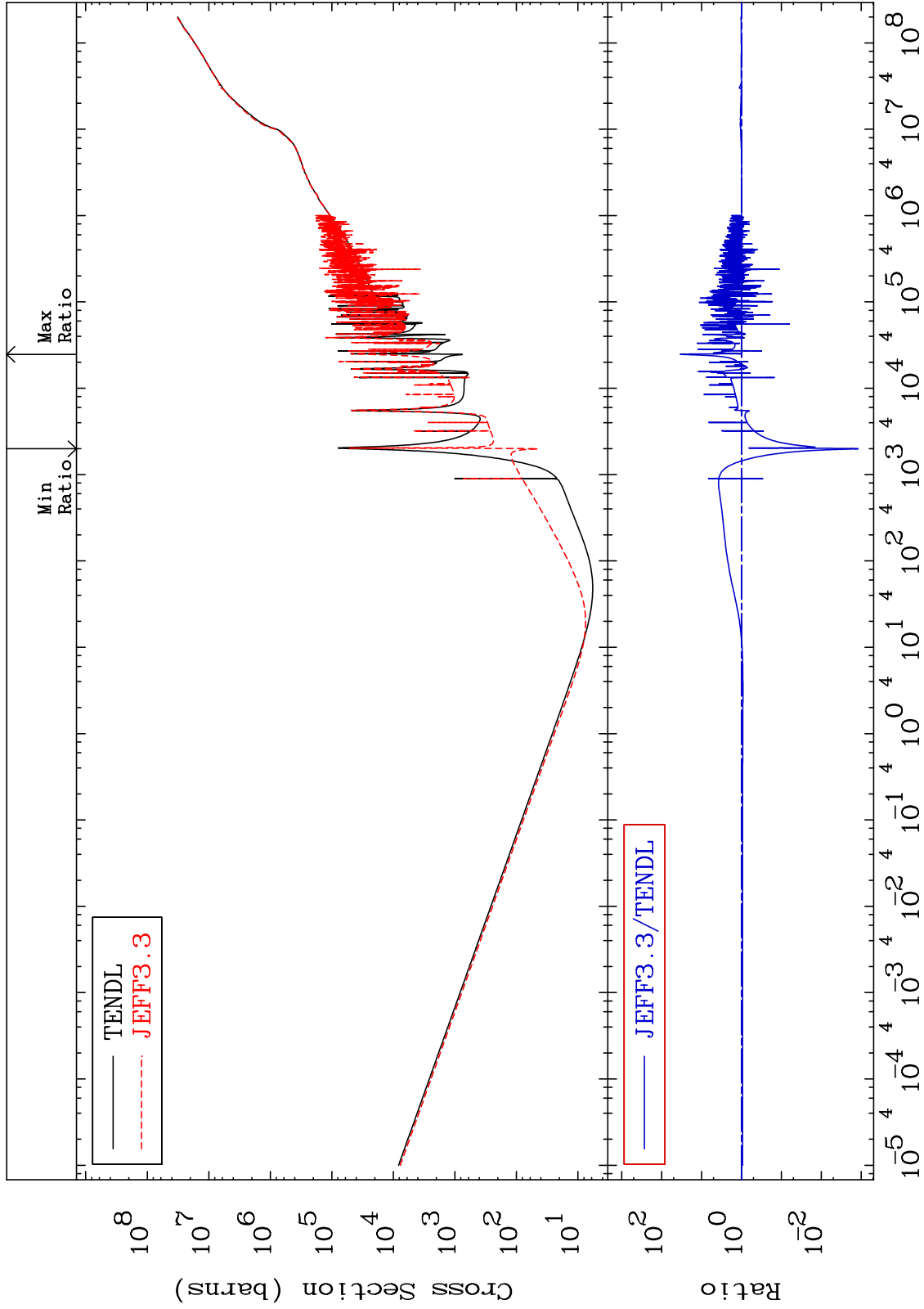
Incident Energy (eV)

19-K -41

MAT 1931

Total kinematic kerma (high limit)  
Cross Section

19-K -41  
-99.88 To 3357. %



74

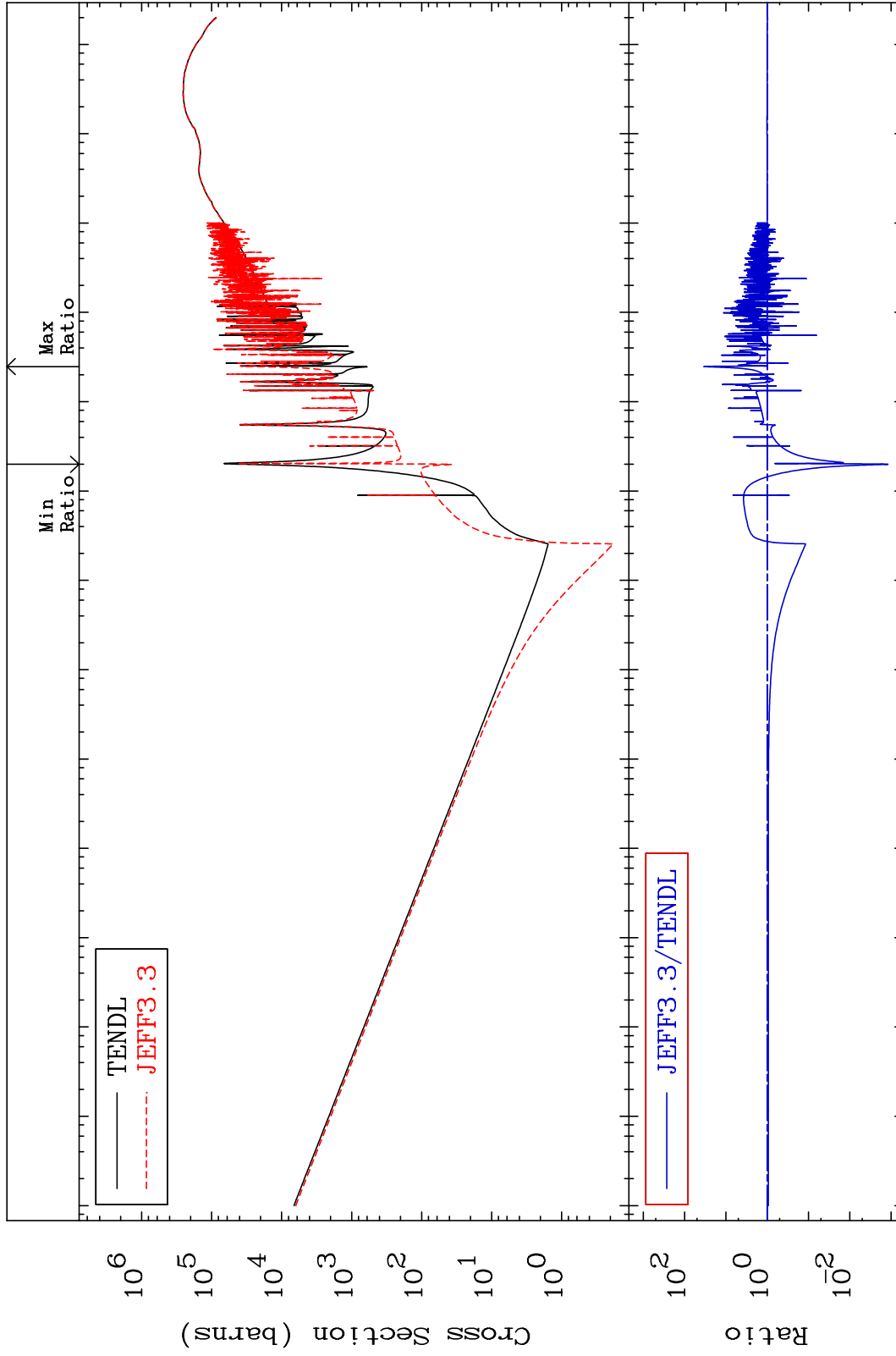
Incident Energy (eV)

19-K -41

MAT 1931

Dpa total (eV-barns)  
Cross Section

19-K -41  
-99.88 To 3357. %



Ratio

Incident Energy (eV)

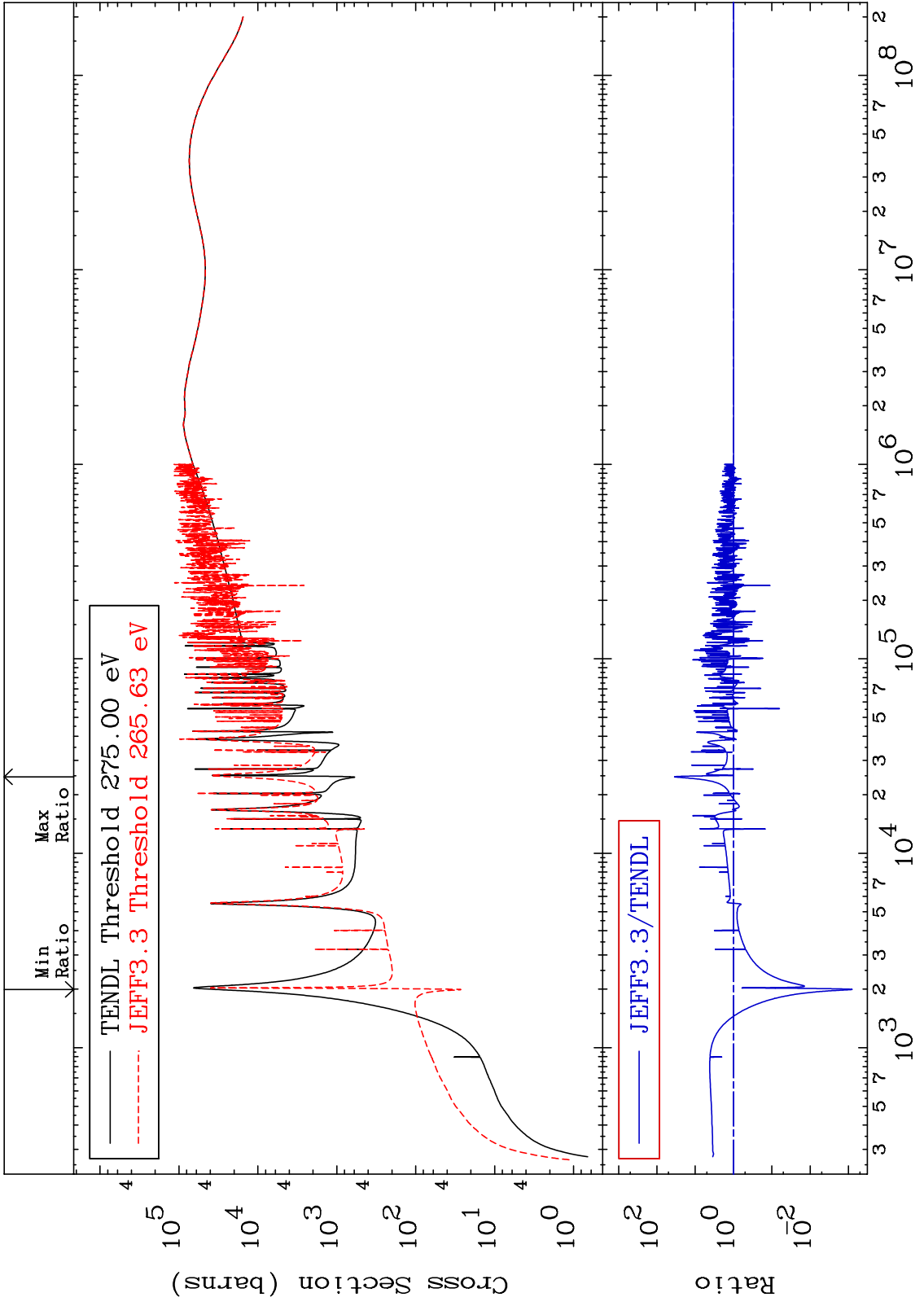
19-K -41

75

MAT 1931

Dpa elastic (mt2)  
Cross Section

19-K -41  
-99.92 To 3363. %



76

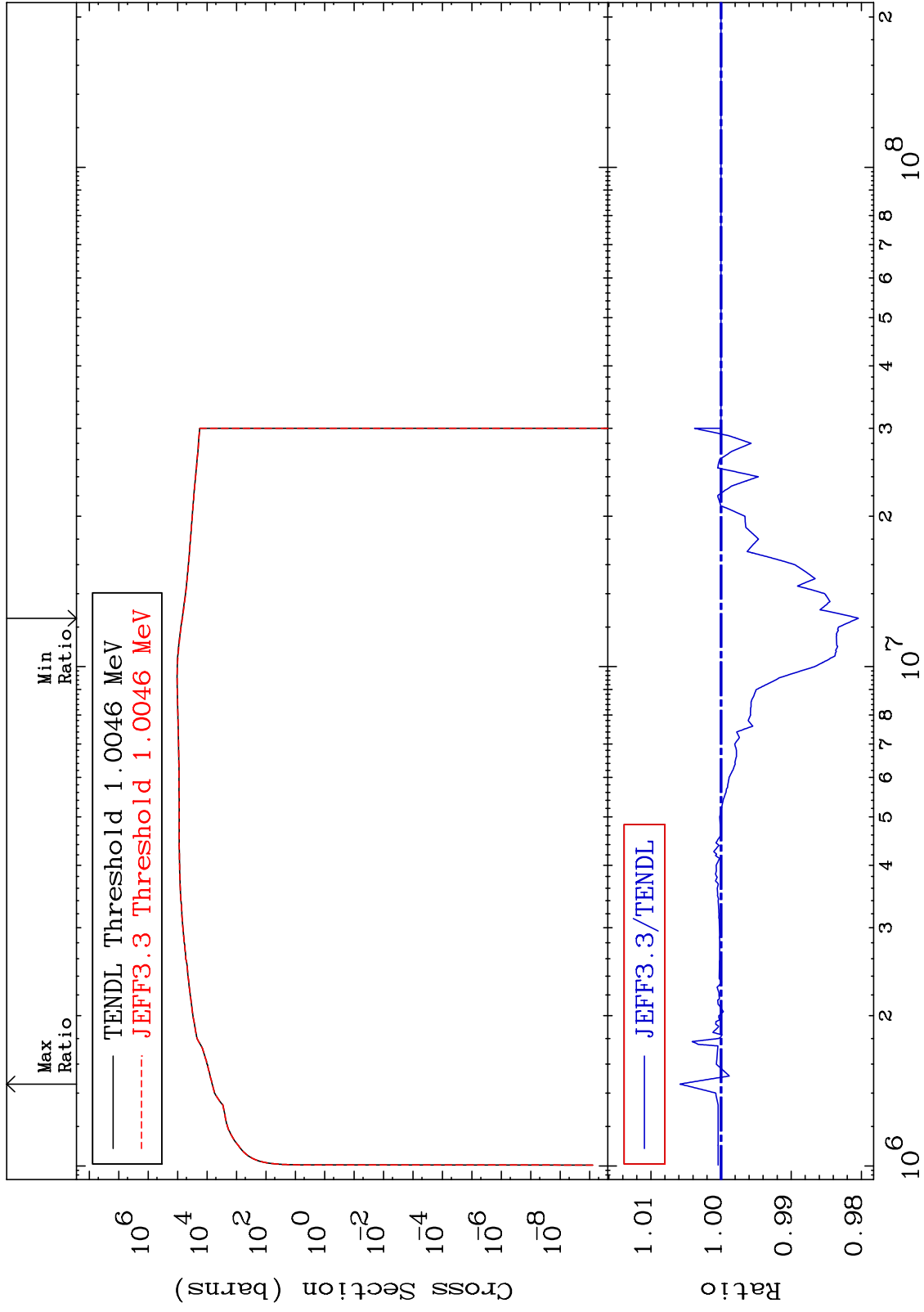
Incident Energy (eV)

19-K -41

MAT 1931

Dpa inelastic (mt51-91)  
Cross Section

19-K -41  
-1.958 To 0.585 %



Incident Energy (eV)

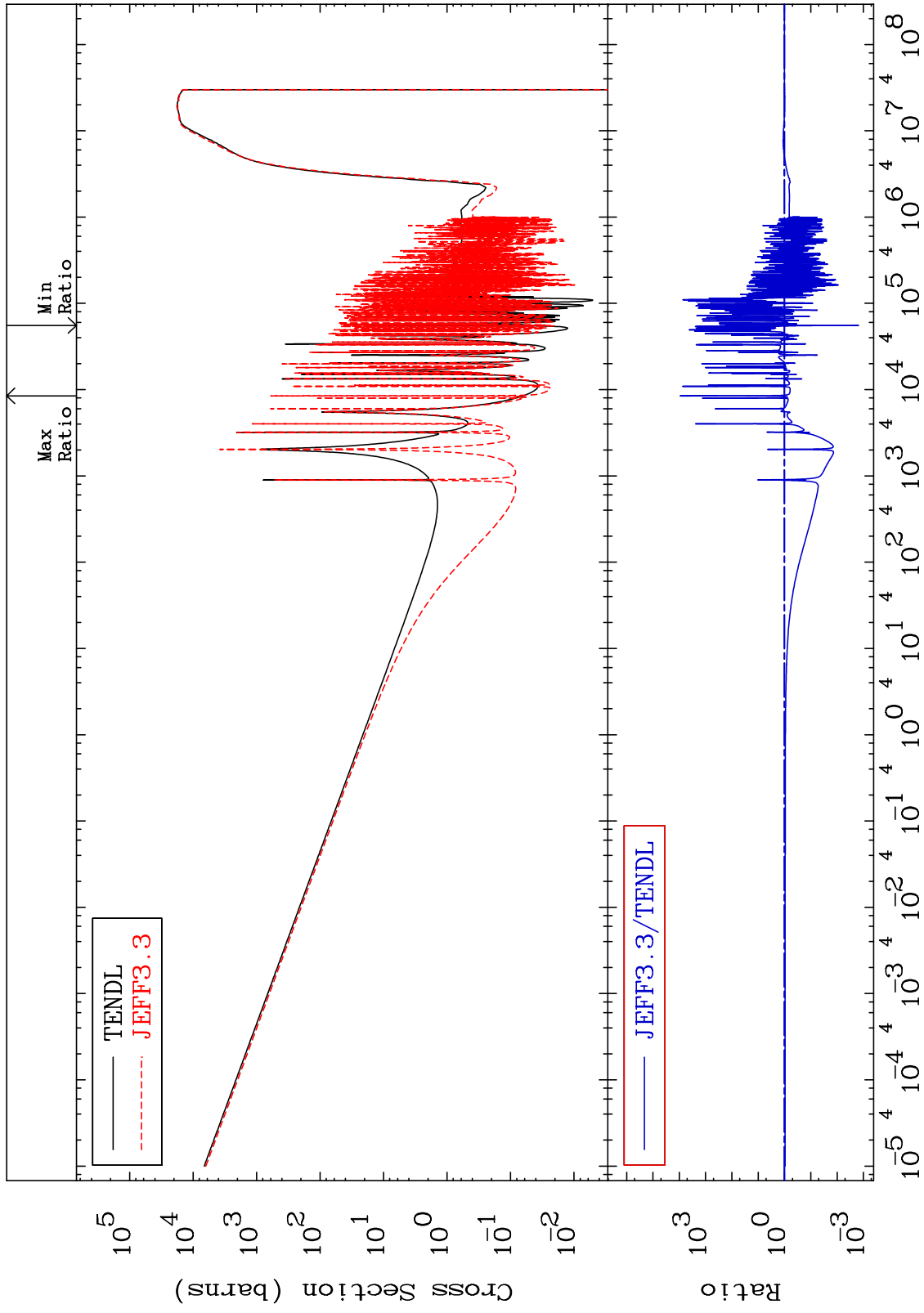
19-K -41

77

MAT 1931

Dpa disappearance (mt102 -120)  
Cross Section

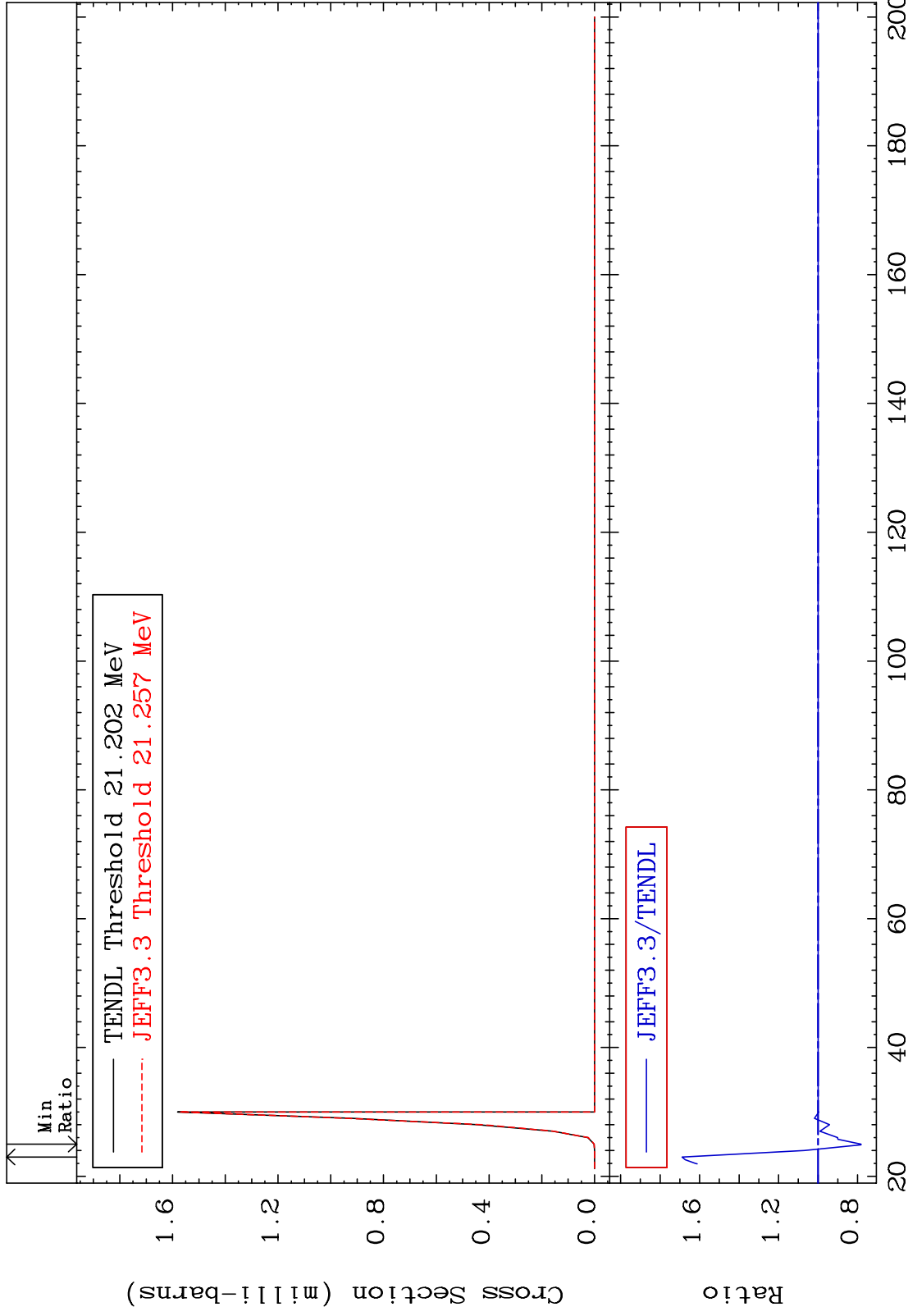
19-K -41  
-99.84 To 9999. %



78

Incident Energy (eV)

19-K -41



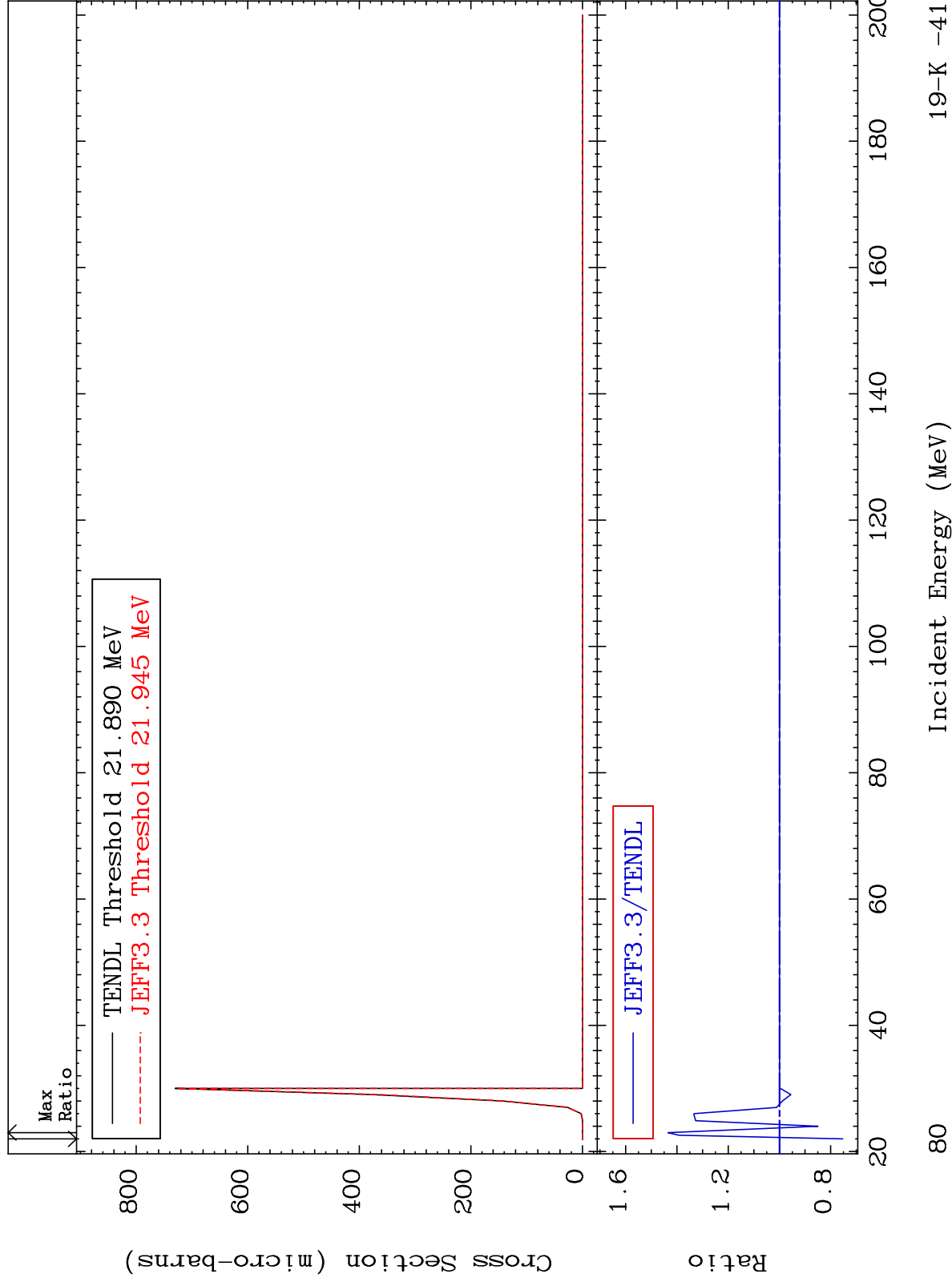


MAT 1931

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

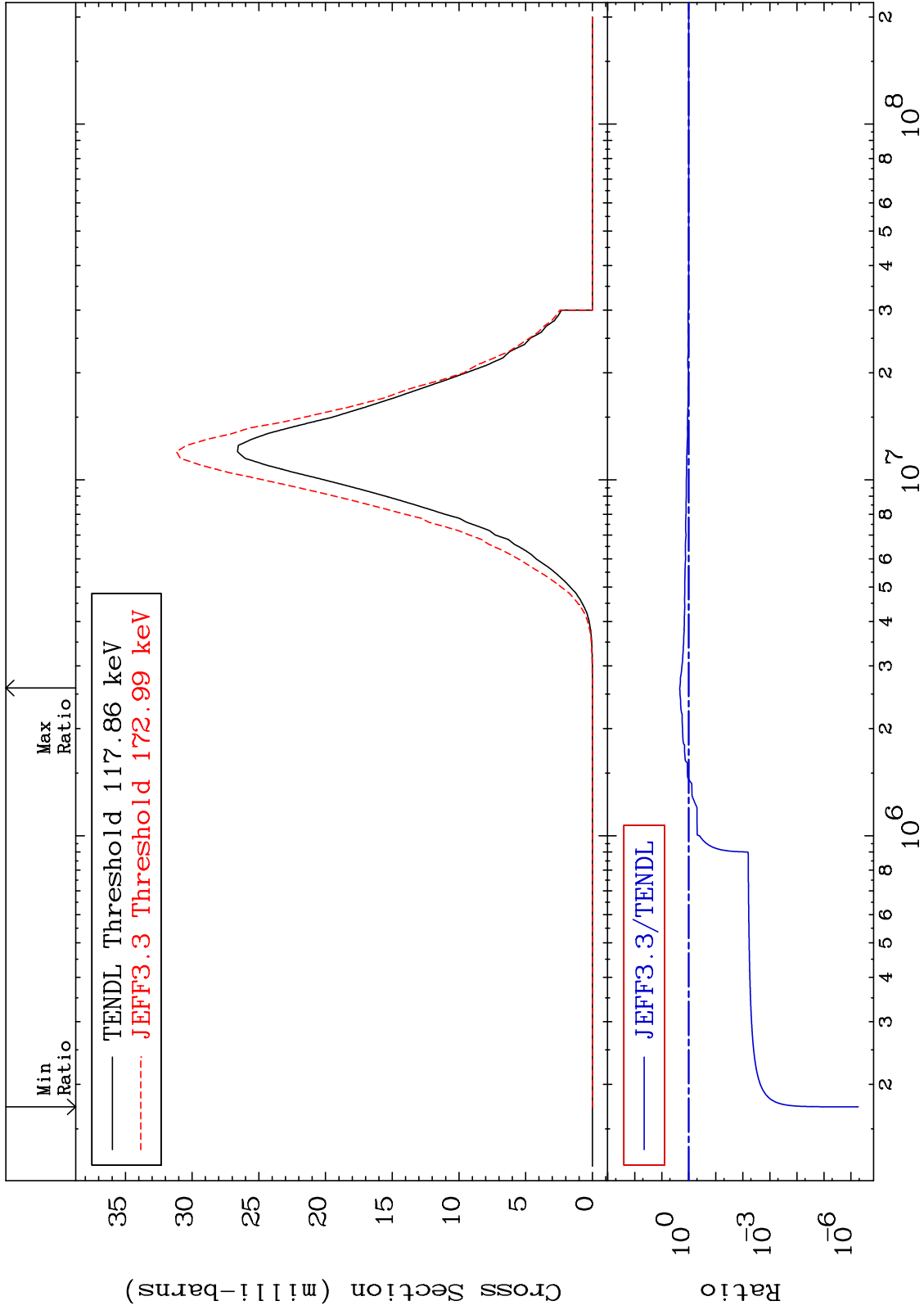
19-K -41

Radionuclide Production Cross Section -24.74 To 43.47 %



19-K -41

Radionuclide Production Cross Section -100.0 To 115.0 %

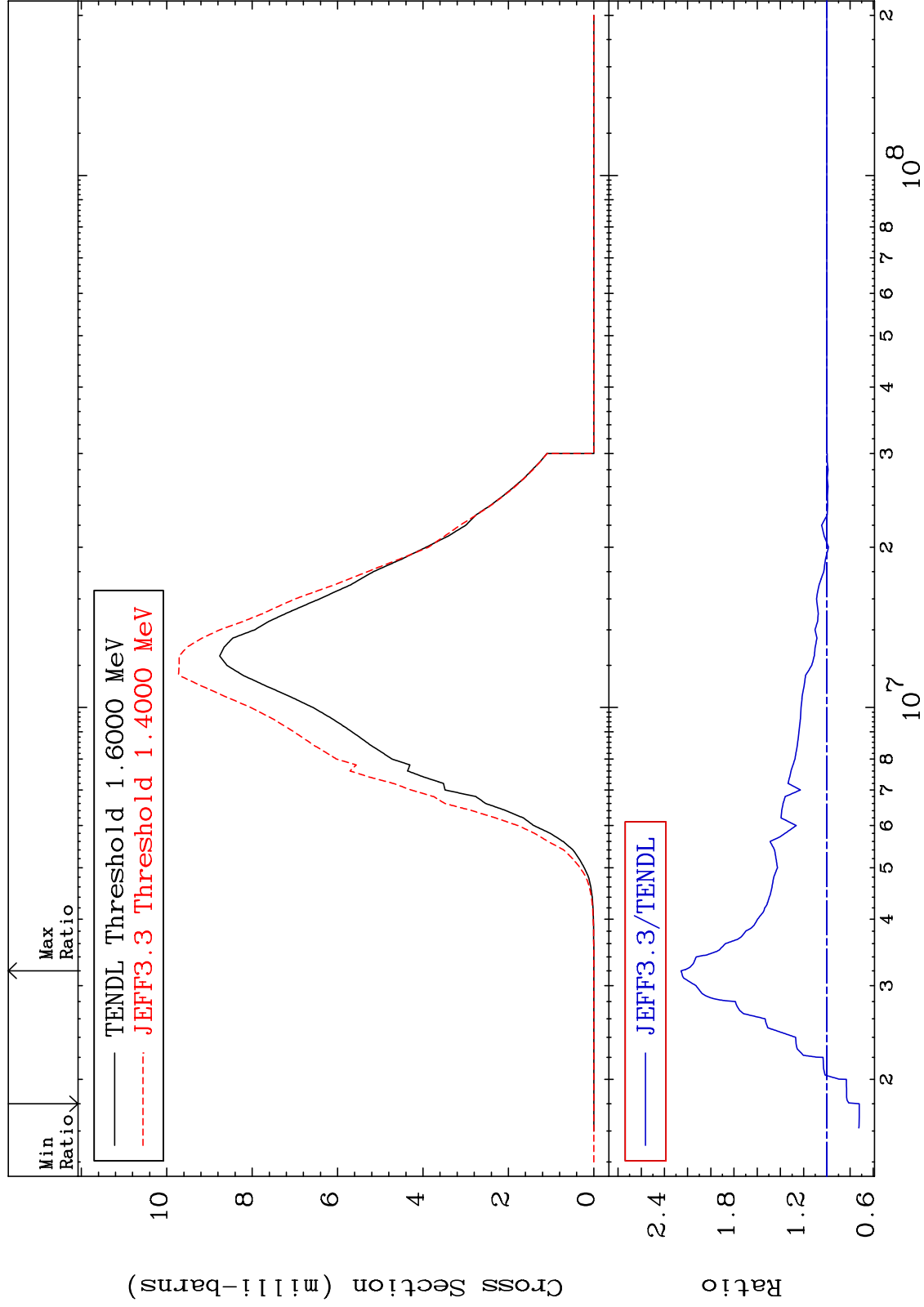


MAT 1931

(n,  $\alpha$ ): 17-Cl-38m1

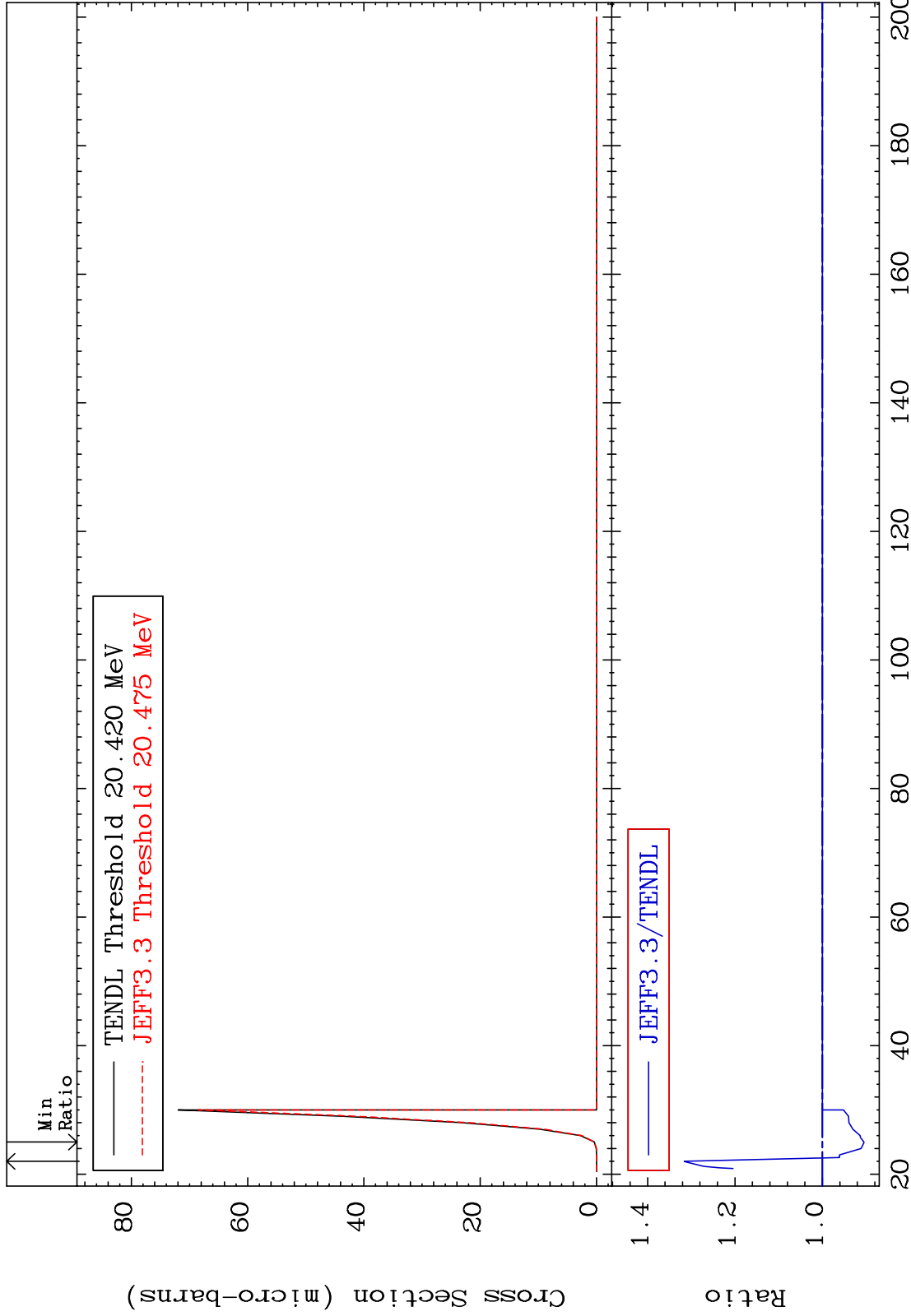
19-K -41

Radionuclide Production Cross Section -27.97 To 125.7 %



MAT 1931

(n,p) t:17-Cl-38g 19-K -41  
Radionuclide Production Cross Section -9.504 To 31.57 %



83

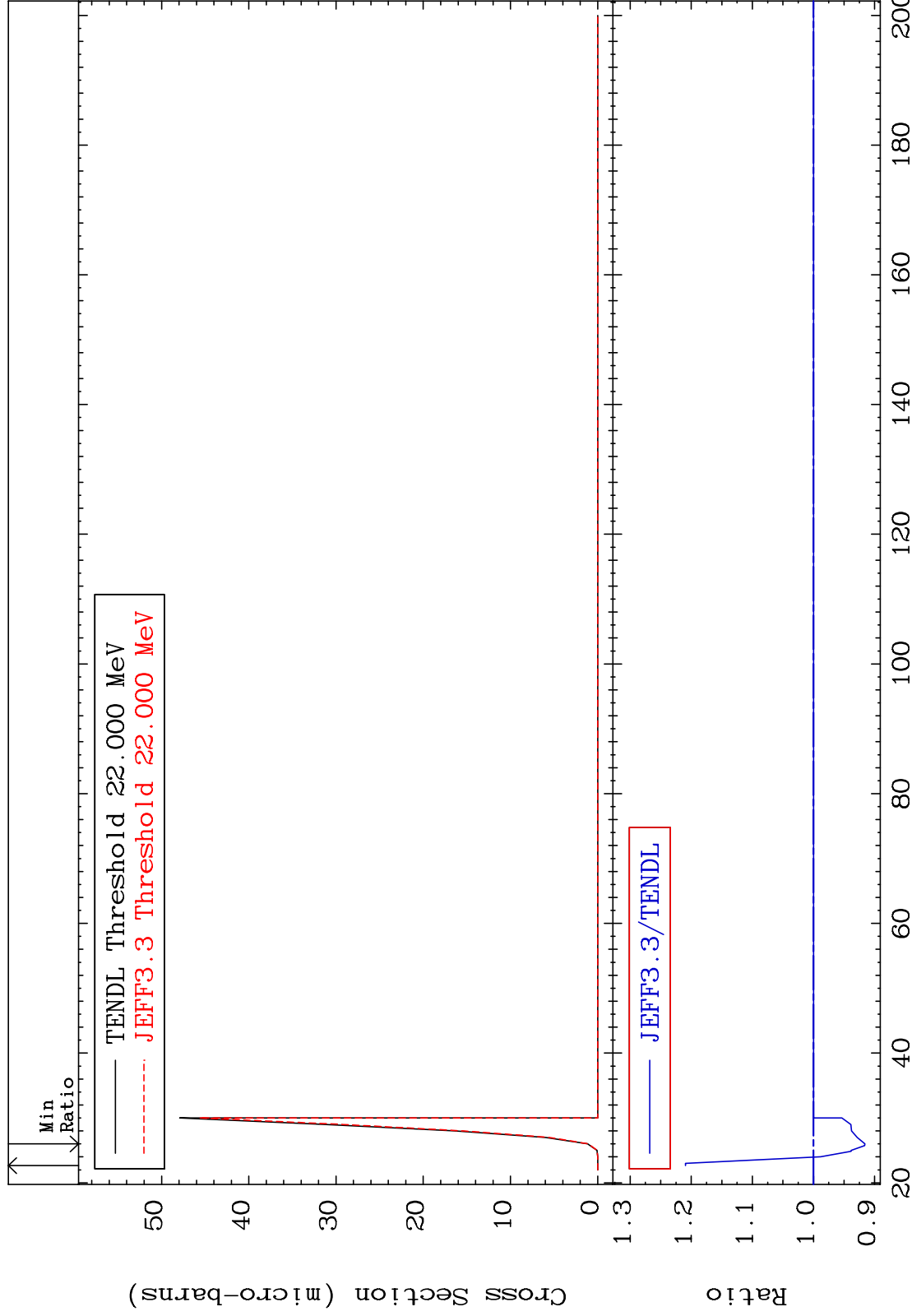
19-K -41

MAT 1931

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

19-K -41

Radionuclide Production Cross Section -8.421 To 20.93 %



84

Incident Energy (MeV)

19-K -41